H6D030246 Analytical Report 1

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 8270

Lot #: H6D030246

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SEVERN TRENT LABORATORIES, INC.

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April 26, 2006

ANALYTICAL METHODS SUMMARY

H6D030246

PARAMETER	ANALYTICAL METHOD
Semivolatile Organic Compounds by GC/MS	SW846 8270C

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030246

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H34	001	G-2890-R1-SPENT ACTIVATED CARBON	03/28/06	
H2H35	002	G-2894-R1-SCRUBBER BLOWDOWN	03/28/06	
H2H37	003	G-2898-R1-POTW DISCHARGE	03/28/06	
H2H38	004	G-2902-R1-CAUSTIC FEED	03/28/06	
H2H39	005	G-2906-R1-MAKE-UP WATER	03/28/06	
H2H4A	006	G-2988-R2-SPENT ACTIVATED CARBON	03/29/06	
H2H4C	007	G-2992-R2-SCRUBBER BLOWDOWN	03/29/06	
H2H4D	008	G-2996-R2-POTW DISCHARGE	03/29/06	
H2H4E	009	G-3004-R2-MAKE-UP WATER	03/29/06	
H2H4F	010	G-3071-R3-SPENT ACTIVATED CARBON	03/30/06	
H2H4G	011	G-3075-R3-SCRUBBER BLOWDOWN	03/30/06	
H2H4H	012	G-3079-R3-POTW DISCHARGE	03/30/06	
H2H4J	013	G-3087-R3-MAKE-UP WATER	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030246

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The dilution factor reported on the sample result form represents a combination of factors (such as dilution, sample weight/volume adjustment, split ratio, etc.) used to adjust the reporting limits and method detection limits.

Surrogate recoveries for sample G-2890-R1-Spent Activated Carbon were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries, the results are attributed to sample matrix effects. In addition, one or more surrogate recoveries for samples G-2988-R2-Spent Activated Carbon and G-3071-R3-Spent Activated Carbon was outside QC limits. Since these samples are similar in nature, the results are attributed to sample matrix effects.

One or more surrogate recoveries for samples G-2894-R1-Scrubber Blowdown, G-2898-R1-POTW Discharge, G-2902-R1-Caustic Feed, G-3004-R2-Make-Up-Water, G-3075-R3-Scrubber Blowdown and G-3087-R3-Make-Up Water were outside QC limits. However, reextraction and reanalysis were not possible due to insufficient sample.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H6D030246

Samples G-2890-R1-Spent Activated Carbon, G-2988-R2-Spent Activated Carbon and G-3071-R3-Spent Activated Carbon were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

The matrix spike/matrix spike duplicate recoveries for sample G-2890-R1-Spent Activated Carbon and G-2902-R1-Caustic Feed were outside QC limits for several analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects.

One surrogate recovery for sample G-2906-R1-Make-Up Water matrix spike duplicate was outside QC limits.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**570 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1300 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**200 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**26000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1900**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	**95**
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**140 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**730 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**7700**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	**890 J**	**** 1600**	**ug/kg**	**** 220**
Naphthalene	**6500**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**920 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**2000**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**210 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**2000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	34 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	43 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	5.5 *	(42 - 124)
Terphenyl-d14	6.6 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-001 **Work Order #:** H2H341AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	24000 NJ	M	2.2315	ug/kg
Tetrachloroethylene	127-18-4	28000 NJ	M	2.537	ug/kg
Ethylbenzene	100-41-4	5900 NJ	M	2.9366	ug/kg
p-Xylene	106-42-3	20000 NJ	M	3.0012	ug/kg
Benzene, 1,3-dimethyl-	108-38-3	8600 NJ	M	3.1951	ug/kg
Ethanol, 2-butoxy-	111-76-2	3200 NJ	M	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6800 NJ	M	3.4477	ug/kg
Unknown		5900 NJ	M	3.7415	ug/kg
Unknown		7400 NJ	M	4.0235	ug/kg
Unknown		3100 NJ	M	4.2644	ug/kg
Limonene	138-86-3	35000 NJ	M	4.3056	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	3100 NJ	M	4.4818	ug/kg
Benzene, 1-methyl-3-(1-methyle	535-77-3	2500 NJ	M	4.5465	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2500 NJ	M	4.7404	ug/kg
Undecane	1120-21-4	4600 NJ	M	4.8814	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.0988	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	M	5.1399	ug/kg
Unknown		1400 NJ	M	5.4396	ug/kg
Unknown		1800 NJ	M	5.8097	ug/kg
Tridecane	629-50-5	1800 NJ	M	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2500 NJ	M	6.9437	ug/kg
Biphenyl	92-52-4	1500 NJ	M	7.6018	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.684	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1600 NJ	M	7.9661	ug/kg
Unknown		1700 NJ	M	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	6600 NJ	M	8.3832	ug/kg
1,1'-Biphenyl, 2,3'-dimethyl-	611-43-8	1400 NJ	M	8.677	ug/kg
Diethyltoluamide	134-62-3	2600 NJ	M	8.959	ug/kg
Unknown		3900 NJ	M	11.655	ug/kg
1,4-dioxane	123-91-1	3100 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	39	(36 - 98)
Phenol-d5	43 *	(49 - 109)
Nitrobenzene-d5	52 *	(57 - 120)
2-Fluorobiphenyl	59	(56 - 118)
2,4,6-Tribromophenol	62	(55 - 134)
Terphenyl-d14	66	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-002 **Work Order #:** H2H351AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 NJ	M	3.9002	ug/L
Unknown		17 NJ	M	4.1117	ug/L
Unknown		5.8 NJ	M	5.6041	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)- ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(36 - 98)
Phenol-d5	50	(49 - 109)
Nitrobenzene-d5	67	(57 - 120)
2-Fluorobiphenyl	82	(56 - 118)
2,4,6-Tribromophenol	54 *	(55 - 134)
Terphenyl-d14	91	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-003 **Work Order #:** H2H371AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	3.6241	ug/L
Unknown		150 NJ	M	3.9061	ug/L
Unknown		97 NJ	M	4.1117	ug/L
Unknown		52 NJ	M	5.6041	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	5.9 NJ	M	10.275	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	100	ug/L	5.0
Acenaphthylene	ND	100	ug/L	5.8
Acetophenone	ND	100	ug/L	7.3
Aniline	ND	100	ug/L	8.7
Anthracene	ND	100	ug/L	8.2
Benz(a)anthracene	ND	100	ug/L	9.3
Benzidine	ND	1000	ug/L	250
Benzo(b)fluoranthene	ND	100	ug/L	10
Benzo(k)fluoranthene	ND	100	ug/L	13
Benzoic acid	ND	500	ug/L	90
Benzo(ghi)perylene	ND	100	ug/L	7.0
Benzo(a)pyrene	ND	100	ug/L	17
Benzyl alcohol	ND	100	ug/L	20
bis(2-Chloroethoxy) methane	ND	100	ug/L	20
bis(2-Chloroethyl)-ether	ND	100	ug/L	6.3
bis(2-Ethylhexyl) phthalate	**41 J**	**100**	**ug/L**	**14**
4-Bromophenyl phenyl ether	ND	100	ug/L	9.9
Butyl benzyl phthalate	ND	100	ug/L	14
Carbazole	ND	100	ug/L	7.9
4-Chloroaniline	ND	100	ug/L	9.5
4-Chloro-3-methylphenol	ND	100	ug/L	50
2-Chloronaphthalene	ND	100	ug/L	7.6
2-Chlorophenol	ND	100	ug/L	6.7
4-Chlorophenyl phenyl ether	ND	100	ug/L	8.9
Chrysene	ND	100	ug/L	8.9
Dibenz(a,h)anthracene	ND	100	ug/L	20
Dibenzofuran	ND	100	ug/L	5.8
Di-n-butyl phthalate	ND	100	ug/L	14
1,2-Dichlorobenzene	ND	100	ug/L	5.8
1,3-Dichlorobenzene	ND	100	ug/L	6.9
1,4-Dichlorobenzene	ND	100	ug/L	7.4
3,3'-Dichlorobenzidine	ND	500	ug/L	20
2,4-Dichlorophenol	ND	100	ug/L	20
Diethyl phthalate	ND	100	ug/L	11

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STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	100	ug/L	11
Dimethyl phthalate	ND	100	ug/L	7.7
1,3-Dinitrobenzene	ND	100	ug/L	96
4,6-Dinitro-2-methylphenol	ND	500	ug/L	50
2,4-Dinitrophenol	ND	500	ug/L	130
2,4-Dinitrotoluene	ND	100	ug/L	20
2,6-Dinitrotoluene	ND	100	ug/L	20
Di-n-octyl phthalate	ND	100	ug/L	20
Diphenylamine	ND	100	ug/L	33
1,2-Diphenylhydrazine	ND	100	ug/L	8.9
Fluoranthene	ND	100	ug/L	10
Fluorene	ND	100	ug/L	6.8
Hexachlorobenzene	ND	100	ug/L	7.6
Hexachlorobutadiene	ND	100	ug/L	8.2
Hexachlorocyclopentadiene	ND	500	ug/L	50
Hexachloroethane	ND	100	ug/L	6.6
Indeno(1,2,3-cd)pyrene	ND	100	ug/L	8.7
Isophorone	ND	100	ug/L	50
2-Methylnaphthalene	ND	100	ug/L	7.2
2-Methylphenol	ND	100	ug/L	9.4
3-Methylphenol & 4-Methylphenol	ND	100	ug/L	15
Naphthalene	ND	100	ug/L	7.1
2-Nitroaniline	ND	500	ug/L	20
3-Nitroaniline	ND	500	ug/L	20
4-Nitroaniline	ND	500	ug/L	50
Nitrobenzene	ND	100	ug/L	20
2-Nitrophenol	ND	100	ug/L	50
4-Nitrophenol	ND	500	ug/L	130
N-Nitrosodimethylamine	ND	100	ug/L	7.0
N-Nitrosodiphenylamine	ND	100	ug/L	8.7
N-Nitrosodi-n-propylamine	ND	100	ug/L	50
Pentachlorophenol	ND	500	ug/L	50
Phenanthrene	ND	100	ug/L	7.0
Phenol	ND	100	ug/L	7.6
2,2'-oxybis(1-Chloropropane)	ND	100	ug/L	5.2
Pyrene	ND	100	ug/L	9.0
Pyridine	ND	200	ug/L	9.7
1,2,4-Trichlorobenzene	ND	100	ug/L	7.4

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STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	100	ug/L	50
2,4,6-Trichloro-phenol	ND	100	ug/L	50
Pentachloronitrobenzene	ND	500	ug/L	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	59	(49 - 109)
Nitrobenzene-d5	68	(57 - 120)
2-Fluorobiphenyl	79	(56 - 118)
2,4,6-Tribromophenol	35 *	(55 - 134)
Terphenyl-d14	92	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #: H6D030246-004 **Work Order #:** H2H381AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	6.5149	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(36 - 98)
Phenol-d5	53	(49 - 109)
Nitrobenzene-d5	59	(57 - 120)
2-Fluorobiphenyl	72	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	83	(33 - 142)

STL Knoxville - ACS

G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-005 **Work Order #:** H2H391AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		13 NJ	M	3.0778	ug/L
Methane, tribromo-	75-25-2	7.7 NJ	M	3.1306	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**560 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1200 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**23000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1700**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 Work Order #...: H2H4A1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	95
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**160 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**710 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**7600**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	**310 J**	**** 1600**	**ug/kg**	**** 220**
Naphthalene	**5900**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**1000 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**710 J**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**250 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**2000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	41 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	7.1 *	(42 - 124)
Terphenyl-d14	9.5 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-006 **Work Order #:** H2H4A1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	19000 NJ	Q	2.2315	ug/kg
Tetrachloroethylene	127-18-4	17000 NJ	Q	2.537	ug/kg
Ethylbenzene	100-41-4	6200 NJ	Q	2.9365	ug/kg
p-Xylene	106-42-3	20000 NJ	Q	3.0012	ug/kg
o-Xylene	95-47-6	7700 NJ	Q	3.1951	ug/kg
Unknown		2200 NJ	Q	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6600 NJ	Q	3.4477	ug/kg
Unknown		3900 NJ	Q	3.718	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	Q	3.7474	ug/kg
Benzene, 1,2,4-trimethyl-	95-63-6	6300 NJ	Q	4.0176	ug/kg
Unknown		3200 NJ	Q	4.2644	ug/kg
Limonene	138-86-3	24000 NJ	Q	4.3055	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	Q	4.4818	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2500 NJ	Q	4.5464	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2600 NJ	Q	4.7403	ug/kg
Undecane	1120-21-4	2800 NJ	Q	4.8814	ug/kg
Unknown		1700 NJ	Q	5.0694	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1600 NJ	Q	5.0987	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	Q	5.1399	ug/kg
Unknown		1600 NJ	Q	5.4395	ug/kg
Dodecane	112-40-3	1300 NJ	Q	5.8097	ug/kg
Tridecane	629-50-5	1500 NJ	Q	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2800 NJ	Q	6.9437	ug/kg
Tetradecane	629-59-4	3100 NJ	Q	7.684	ug/kg
Unknown		1500 NJ	Q	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	3100 NJ	Q	8.3714	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1900 NJ	Q	8.677	ug/kg
3,6,9,12,15-Pentaoxanonadecan-	1786-94-3	1300 NJ	Q	9.6876	ug/kg
Unknown		4500 NJ	Q	11.655	ug/kg
1,4-dioxane	123-91-1	1700	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	43	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	57	(57 - 120)
2-Fluorobiphenyl	68	(56 - 118)
2,4,6-Tribromophenol	65	(55 - 134)
Terphenyl-d14	63	(33 - 142)

STL Knoxville - ACS

G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-007 **Work Order #:** H2H4C1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	4.3 NJ	M	1.9497	ug/L
Unknown		27 NJ	M	3.9004	ug/L
Unknown		43 NJ	M	4.1119	ug/L
Unknown		19 NJ	M	5.6043	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	54	(49 - 109)
Nitrobenzene-d5	61	(57 - 120)
2-Fluorobiphenyl	70	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	87	(33 - 142)

STL Knoxville - ACS

G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-008 **Work Order #:** H2H4D1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	3.9003	ug/L
Unknown		5.7 NJ	M	5.6042	ug/L
Unknown		6.3 NJ	M	6.9145	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	10 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	3.0 *	(36 - 98)
Phenol-d5	0.41 *	(49 - 109)
Nitrobenzene-d5	55 *	(57 - 120)
2-Fluorobiphenyl	65	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	85	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-009 **Work Order #:** H2H4E1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		40 NJ	M	2.4724	ug/L
Unknown		29 NJ	M	3.0776	ug/L
Methane, tribromo-	75-25-2	6.5 NJ	M	3.1305	ug/L
Unknown		19 NJ	M	5.2986	ug/L
Unknown		4.7 NJ	M	6.3444	ug/L
Unknown		23 NJ	M	6.4149	ug/L
Unknown		4.8 NJ	M	6.6734	ug/L
Unknown		11 NJ	M	7.2493	ug/L
Unknown		4.5 NJ	M	7.5724	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	34 NJ	M	8.16	ug/L
Unknown		25 NJ	M	8.677	ug/L
Unknown		12 NJ	M	8.7828	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**780 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1600**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	**410 J**	**1600**	**ug/kg**	**320**
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**27000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**2100**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	**95**
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**130 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**1000 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**11000**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	ND	** 1600	ug/kg	** 220
Naphthalene	**8700**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**1100 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**450 J**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**220 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**3000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	46 *	(47 - 98)
Nitrobenzene-d5	47	(45 - 100)
2-Fluorobiphenyl	46 *	(49 - 100)
2,4,6-Tribromophenol	4.7 *	(42 - 124)
Terphenyl-d14	6.1 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-010 **Work Order #:** H2H4F1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	13000 NJ	M	2.2317	ug/kg
Tetrachloroethylene	127-18-4	12000 NJ	M	2.5372	ug/kg
Ethylbenzene	100-41-4	4400 NJ	M	2.9367	ug/kg
p-Xylene	106-42-3	14000 NJ	M	2.9955	ug/kg
Styrene	100-42-5	9700 NJ	M	3.1718	ug/kg
Ethylbenzene	100-41-4	6100 NJ	M	3.1953	ug/kg
Benzene, (1-methylethyl)-	98-82-8	5400 NJ	M	3.4479	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	M	3.7476	ug/kg
Decane	124-18-5	7100 NJ	M	4.0237	ug/kg
Unknown		3000 NJ	M	4.2646	ug/kg
Unknown		21000 NJ	M	4.3058	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	M	4.482	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2500 NJ	M	4.5466	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2800 NJ	M	4.7405	ug/kg
Undecane	1120-21-4	3000 NJ	M	4.8816	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.099	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2800 NJ	M	5.1401	ug/kg
Unknown		1400 NJ	M	5.4456	ug/kg
Dodecane	112-40-3	1400 NJ	M	5.8099	ug/kg
Tridecane	629-50-5	1700 NJ	M	6.703	ug/kg
Naphthalene, 1-methyl-	90-12-0	2700 NJ	M	6.9439	ug/kg
Biphenyl	92-52-4	1600 NJ	M	7.602	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.6842	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1500 NJ	M	7.9662	ug/kg
Bacchotricuneatin c	66563-30-2	1600 NJ	M	8.1778	ug/kg
1H-Isoindole-1,3(2H)-dione, 3a	1469-48-3	1300 NJ	M	8.3658	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1400 NJ	M	8.6772	ug/kg
Benzene, 1-methyl-2-[(3-methyl	21895-13-6	1700 NJ	M	9.2471	ug/kg
Unknown		7000 NJ	M	11.656	ug/kg
1,4-dioxane	123-91-1	650 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(36 - 98)
Phenol-d5	44 *	(49 - 109)
Nitrobenzene-d5	53 *	(57 - 120)
2-Fluorobiphenyl	64	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
Terphenyl-d14	46	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-011 **Work Order #:** H2H4G1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	5.7 NJ	M	1.9496	ug/L
Unknown		110 NJ	M	3.9003	ug/L
Unknown		97 NJ	M	4.1118	ug/L
Unknown		44 NJ	M	5.6042	ug/L
Unknown		4.5 NJ	M	10.845	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	62	(57 - 120)
2-Fluorobiphenyl	74	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	88	(33 - 142)

STL Knoxville - ACS

G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-012 **Work Order #:** H2H4H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		140 NJ	M	3.9002	ug/L
Unknown		56 NJ	M	4.1118	ug/L
Unknown		22 NJ	M	5.6042	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	4.8 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.87 *	(36 - 98)
Phenol-d5	0.0	(49 - 109)
Nitrobenzene-d5	54 *	(57 - 120)
2-Fluorobiphenyl	66	(56 - 118)
2,4,6-Tribromophenol	43 *	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-013 **Work Order #:** H2H4J1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	2.2786	ug/L
Unknown		76 NJ	M	2.4725	ug/L
Unknown		30 NJ	M	3.0777	ug/L
Methane, tribromo-	75-25-2	6.1 NJ	M	3.1306	ug/L
Unknown		18 NJ	M	5.2986	ug/L
Unknown		4.5 NJ	M	6.3445	ug/L
Unknown		20 NJ	M	6.415	ug/L
Unknown		8.8 NJ	M	7.2493	ug/L
Unknown		5.7 NJ	M	7.5725	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	36 NJ	M	8.1601	ug/L
Unknown		28 NJ	M	8.6771	ug/L
Unknown		18 NJ	M	8.7829	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AA **Matrix.....:** SOLID
MB Lot-Sample #: H6D040000-075

Prep Date.....: 04/04/06
Analysis Date..: 04/18/06 **Prep Batch #...:** 6094075
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Aniline	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benz(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzidine	ND	3300	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
1,3-Dinitrobenzene	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Diphenylamine	ND	330	ug/kg	SW846 8270C
1,2-Diphenylhydrazine	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodimethylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropane)	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
Pyridine	ND	660	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(44 - 93)
Phenol-d5	69	(47 - 98)
Nitrobenzene-d5	71	(45 - 100)
2-Fluorobiphenyl	84	(49 - 100)
2,4,6-Tribromophenol	66	(42 - 124)
Terphenyl-d14	86	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL Knoxville - ACS

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: H6D040000-075 B **Work Order #:** H2H9W1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
1,4-dioxane	123-91-1	ND	Q		ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**82**	**(53 - 94)**	**SW846 8270C**
Acenaphthylene	81	(53 - 94)	SW846 8270C
Aniline	38	(20 - 73)	SW846 8270C
Anthracene	82	(58 - 99)	SW846 8270C
Benz(a)anthracene	84	(61 - 103)	SW846 8270C
Benzo(b)fluoranthene	75	(51 - 118)	SW846 8270C
Benzo(k)fluoranthene	82	(58 - 111)	SW846 8270C
Benzoic acid	63	(48 - 124)	SW846 8270C
Benzo(ghi)perylene	79	(54 - 108)	SW846 8270C
Benzo(a)pyrene	79	(61 - 100)	SW846 8270C
Benzyl alcohol	73	(54 - 103)	SW846 8270C
bis(2-Chloroethoxy) methane	69	(52 - 92)	SW846 8270C
bis(2-Chloroethyl)-ether	68	(51 - 91)	SW846 8270C
bis(2-Ethylhexyl) phthalate	75	(64 - 118)	SW846 8270C
4-Bromophenyl phenyl ether	96	(70 - 120)	SW846 8270C
Butyl benzyl phthalate	70	(64 - 109)	SW846 8270C
Carbazole	80	(55 - 96)	SW846 8270C
4-Chloroaniline	29	(20 - 67)	SW846 8270C
4-Chloro-3-methylphenol	**78**	**(64 - 107)**	**SW846 8270C**
2-Chloronaphthalene	76	(56 - 96)	SW846 8270C
2-Chlorophenol	**71**	**(58 - 98)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	90	(63 - 100)	SW846 8270C
Chrysene	80	(60 - 100)	SW846 8270C
Dibenz(a,h)anthracene	76	(63 - 110)	SW846 8270C
Dibenzofuran	84	(59 - 99)	SW846 8270C
Di-n-butyl phthalate	77	(61 - 107)	SW846 8270C
1,2-Dichlorobenzene	71	(50 - 90)	SW846 8270C
1,3-Dichlorobenzene	70	(49 - 89)	SW846 8270C
1,4-Dichlorobenzene	**72**	**(50 - 90)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
3,3'-Dichlorobenzidine	47	(22 - 87)	SW846 8270C
2,4-Dichlorophenol	83	(60 - 102)	SW846 8270C
Diethyl phthalate	76	(56 - 104)	SW846 8270C
2,4-Dimethylphenol	58	(40 - 80)	SW846 8270C
Dimethyl phthalate	80	(60 - 100)	SW846 8270C
4,6-Dinitro-2-methylphenol	89	(49 - 123)	SW846 8270C
2,4-Dinitrophenol	83	(20 - 137)	SW846 8270C
2,4-Dinitrotoluene	**84**	**(57 - 121)**	**SW846 8270C**
2,6-Dinitrotoluene	86	(58 - 130)	SW846 8270C
Di-n-octyl phthalate	70	(66 - 121)	SW846 8270C
1,2-Diphenylhydrazine	71	(53 - 99)	SW846 8270C
Fluoranthene	95	(58 - 100)	SW846 8270C
Fluorene	85	(53 - 99)	SW846 8270C
Hexachlorobenzene	76	(63 - 103)	SW846 8270C
Hexachlorobutadiene	68	(46 - 86)	SW846 8270C
Hexachlorocyclopentadiene	62	(30 - 79)	SW846 8270C
Hexachloroethane	66	(52 - 92)	SW846 8270C
Indeno(1,2,3-cd)pyrene	75	(60 - 108)	SW846 8270C
Isophorone	69	(53 - 93)	SW846 8270C
2-Methylnaphthalene	85	(52 - 92)	SW846 8270C
2-Methylphenol	71	(55 - 95)	SW846 8270C
Naphthalene	71	(50 - 90)	SW846 8270C
2-Nitroaniline	72	(47 - 112)	SW846 8270C
3-Nitroaniline	54	(42 - 82)	SW846 8270C
4-Nitroaniline	66	(45 - 87)	SW846 8270C
Nitrobenzene	71	(55 - 95)	SW846 8270C
2-Nitrophenol	77	(55 - 105)	SW846 8270C
4-Nitrophenol	**67**	**(41 - 122)**	**SW846 8270C**
N-Nitrosodimethylamine	77	(42 - 96)	SW846 8270C
N-Nitrosodiphenylamine	89	(64 - 114)	SW846 8270C
N-Nitrosodi-n-propylamine	**71**	**(51 - 93)**	**SW846 8270C**
Pentachlorophenol	**70**	**(55 - 109)**	**SW846 8270C**
Phenanthrene	84	(57 - 97)	SW846 8270C
Phenol	**71**	**(58 - 98)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
bis(2-Chloroisopropyl) ether	62	(49 - 91)	SW846 8270C
Pyrene	**90**	**(60 - 107)**	**SW846 8270C**
Pyridine	55	(29 - 69)	SW846 8270C
1,2,4-Trichloro-benzene	**84**	**(53 - 93)**	**SW846 8270C**
2,4,5-Trichloro-phenol	83	(64 - 107)	SW846 8270C
2,4,6-Trichloro-phenol	86	(62 - 106)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(44 - 93)
Phenol-d5	70	(47 - 98)
Nitrobenzene-d5	69	(45 - 100)
2-Fluorobiphenyl	86	(49 - 100)
2,4,6-Tribromophenol	78	(42 - 124)
Terphenyl-d14	81	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**2730**	**ug/kg**	**82**	**SW846 8270C**
Acenaphthylene	3330	2700	ug/kg	81	SW846 8270C
Aniline	3330	1260	ug/kg	38	SW846 8270C
Anthracene	3330	2730	ug/kg	82	SW846 8270C
Benz(a)anthracene	3330	2800	ug/kg	84	SW846 8270C
Benzo(b)fluoranthene	3330	2490	ug/kg	75	SW846 8270C
Benzo(k)fluoranthene	3330	2740	ug/kg	82	SW846 8270C
Benzoic acid	3330	2110	ug/kg	63	SW846 8270C
Benzo(ghi)perylene	3330	2630	ug/kg	79	SW846 8270C
Benzo(a)pyrene	3330	2630	ug/kg	79	SW846 8270C
Benzyl alcohol	3330	2440	ug/kg	73	SW846 8270C
bis(2-Chloroethoxy) methane	3330	2300	ug/kg	69	SW846 8270C
bis(2-Chloroethyl)-ether	3330	2260	ug/kg	68	SW846 8270C
bis(2-Ethylhexyl) phthalate	3330	2500	ug/kg	75	SW846 8270C
4-Bromophenyl phenyl ether	3330	3200	ug/kg	96	SW846 8270C
Butyl benzyl phthalate	3330	2320	ug/kg	70	SW846 8270C
Carbazole	3330	2660	ug/kg	80	SW846 8270C
4-Chloroaniline	3330	971	ug/kg	29	SW846 8270C
4-Chloro-3-methylphenol	**3330**	**2600**	**ug/kg**	**78**	**SW846 8270C**
2-Chloronaphthalene	3330	2540	ug/kg	76	SW846 8270C
2-Chlorophenol	**3330**	**2380**	**ug/kg**	**71**	**SW846 8270C**
4-Chlorophenyl phenyl ether	3330	2990	ug/kg	90	SW846 8270C
Chrysene	3330	2660	ug/kg	80	SW846 8270C
Dibenz(a,h)anthracene	3330	2540	ug/kg	76	SW846 8270C
Dibenzofuran	3330	2790	ug/kg	84	SW846 8270C
Di-n-butyl phthalate	3330	2550	ug/kg	77	SW846 8270C
1,2-Dichlorobenzene	3330	2350	ug/kg	71	SW846 8270C
1,3-Dichlorobenzene	3330	2330	ug/kg	70	SW846 8270C
1,4-Dichlorobenzene	**3330**	**2390**	**ug/kg**	**72**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3,3'-Dichlorobenzidine	3330	1570	ug/kg	47	SW846 8270C
2,4-Dichlorophenol	3330	2770	ug/kg	83	SW846 8270C
Diethyl phthalate	3330	2520	ug/kg	76	SW846 8270C
2,4-Dimethylphenol	3330	1920	ug/kg	58	SW846 8270C
Dimethyl phthalate	3330	2670	ug/kg	80	SW846 8270C
4,6-Dinitro-2-methylphenol	3330	2950	ug/kg	89	SW846 8270C
2,4-Dinitrophenol	3330	2750	ug/kg	83	SW846 8270C
2,4-Dinitrotoluene	**3330**	**2810**	**ug/kg**	**84**	**SW846 8270C**
2,6-Dinitrotoluene	3330	2880	ug/kg	86	SW846 8270C
Di-n-octyl phthalate	3330	2340	ug/kg	70	SW846 8270C
1,2-Diphenylhydrazine	3330	2380	ug/kg	71	SW846 8270C
Fluoranthene	3330	3170	ug/kg	95	SW846 8270C
Fluorene	3330	2820	ug/kg	85	SW846 8270C
Hexachlorobenzene	3330	2520	ug/kg	76	SW846 8270C
Hexachlorobutadiene	3330	2270	ug/kg	68	SW846 8270C
Hexachlorocyclopenta-diene	3330	2070	ug/kg	62	SW846 8270C
Hexachloroethane	3330	2190	ug/kg	66	SW846 8270C
Indeno(1,2,3-cd)pyrene	3330	2510	ug/kg	75	SW846 8270C
Isophorone	3330	2310	ug/kg	69	SW846 8270C
2-Methylnaphthalene	3330	2820	ug/kg	85	SW846 8270C
2-Methylphenol	3330	2380	ug/kg	71	SW846 8270C
Naphthalene	3330	2380	ug/kg	71	SW846 8270C
2-Nitroaniline	3330	2390	ug/kg	72	SW846 8270C
3-Nitroaniline	3330	1790	ug/kg	54	SW846 8270C
4-Nitroaniline	3330	2200	ug/kg	66	SW846 8270C
Nitrobenzene	3330	2370	ug/kg	71	SW846 8270C
2-Nitrophenol	3330	2560	ug/kg	77	SW846 8270C
4-Nitrophenol	**3330**	**2230**	**ug/kg**	**67**	**SW846 8270C**
N-Nitrosodimethylamine	3330	2560	ug/kg	77	SW846 8270C
N-Nitrosodiphenylamine	3330	2960	ug/kg	89	SW846 8270C
N-Nitrosodi-n-propyl-amine	**3330**	**2360**	**ug/kg**	**71**	**SW846 8270C**
Pentachlorophenol	**3330**	**2320**	**ug/kg**	**70**	**SW846 8270C**
Phenanthrene	3330	2810	ug/kg	84	SW846 8270C
Phenol	**3330**	**2360**	**ug/kg**	**71**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
bis(2-Chloroisopropyl) ether	3330	2060	ug/kg	62	SW846 8270C
Pyrene	**3330**	**3010**	**ug/kg**	**90**	**SW846 8270C**
Pyridine	3330	1840	ug/kg	55	SW846 8270C
1,2,4-Trichloro-benzene	**3330**	**2790**	**ug/kg**	**84**	**SW846 8270C**
2,4,5-Trichloro-phenol	3330	2780	ug/kg	83	SW846 8270C
2,4,6-Trichloro-phenol	3330	2850	ug/kg	86	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(44 - 93)
Phenol-d5	70	(47 - 98)
Nitrobenzene-d5	69	(45 - 100)
2-Fluorobiphenyl	86	(49 - 100)
2,4,6-Tribromophenol	78	(42 - 124)
Terphenyl-d14	81	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**39 a**	**(44 - 100)**			**SW846 8270C**
	51	**(44 - 100)**	**20**	**(0-39)**	**SW846 8270C**
Acenaphthylene	35 a	(43 - 99)			SW846 8270C
	59	(43 - 99)	28	(0-38)	SW846 8270C
Aniline	33	(20 - 74)			SW846 8270C
	36	(20 - 74)	9.5	(0-50)	SW846 8270C
Anthracene	14 a	(40 - 111)			SW846 8270C
	21 a	(40 - 111)	30	(0-46)	SW846 8270C
Benz(a)anthracene	3.7 a	(20 - 133)			SW846 8270C
	4.8 a	(20 - 133)	25	(0-47)	SW846 8270C
Benzo(b)fluoranthene	0.0	(32 - 127)			SW846 8270C
	2.7 a,p	(32 - 127)	200	(0-50)	SW846 8270C
Benzo(k)fluoranthene	0.0	(28 - 123)			SW846 8270C
	2.0 a,p	(28 - 123)	200	(0-50)	SW846 8270C
Benzoic acid	17 a	(20 - 145)			SW846 8270C
	20	(20 - 145)	20	(0-50)	SW846 8270C
Benzo(ghi)perylene	0.0	(39 - 119)			SW846 8270C
	0.0	(39 - 119)	0.0	(0-46)	SW846 8270C
Benzo(a)pyrene	0.0	(30 - 119)			SW846 8270C
	3.2 a,p	(30 - 119)	200	(0-48)	SW846 8270C
Benzyl alcohol	74	(47 - 110)			SW846 8270C
	78	(47 - 110)	5.9	(0-50)	SW846 8270C
bis(2-Chloroethoxy) methane	68	(48 - 94)			SW846 8270C
	75	(48 - 94)	9.6	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	66	(44 - 98)			SW846 8270C
	67	(44 - 98)	2.2	(0-49)	SW846 8270C
bis(2-Ethylhexyl) phthalate	70	(57 - 127)			SW846 8270C
	76	(57 - 127)	7.5	(0-46)	SW846 8270C
4-Bromophenyl phenyl ether	71	(61 - 127)			SW846 8270C
	74	(61 - 127)	3.3	(0-46)	SW846 8270C
Butyl benzyl phthalate	57	(42 - 130)			SW846 8270C
	63	(42 - 130)	9.5	(0-47)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbazole	25 a	(41 - 105)			SW846 8270C
	33 a	(41 - 105)	28	(0-43)	SW846 8270C
4-Chloroaniline	36	(20 - 69)			SW846 8270C
	43	(20 - 69)	17	(0-50)	SW846 8270C
4-Chloro-3-methylphenol	**53**	**(52 - 118)**			**SW846 8270C**
	62	**(52 - 118)**	**16**	**(0-46)**	**SW846 8270C**
2-Chloronaphthalene	29 a	(50 - 100)			SW846 8270C
	37 a	(50 - 100)	25	(0-37)	SW846 8270C
2-Chlorophenol	**52**	**(49 - 105)**			**SW846 8270C**
	56	**(49 - 105)**	**7.2**	**(0-46)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	65	(56 - 103)			SW846 8270C
	73	(56 - 103)	12	(0-43)	SW846 8270C
Chrysene	3.7 a	(24 - 125)			SW846 8270C
	5.1 a	(24 - 125)	31	(0-46)	SW846 8270C
Dibenz(a,h)anthracene	0.0	(36 - 129)			SW846 8270C
	0.0	(36 - 129)	0.0	(0-47)	SW846 8270C
Dibenzofuran	24 a	(52 - 102)			SW846 8270C
	32 a	(52 - 102)	30	(0-45)	SW846 8270C
Di-n-butyl phthalate	71	(54 - 111)			SW846 8270C
	74	(54 - 111)	3.7	(0-42)	SW846 8270C
1,2-Dichlorobenzene	102 a	(41 - 94)			SW846 8270C
	180 a	(41 - 94)	8.4	(0-44)	SW846 8270C
1,3-Dichlorobenzene	53	(43 - 89)			SW846 8270C
	58	(43 - 89)	7.6	(0-44)	SW846 8270C
1,4-Dichlorobenzene	**55**	**(45 - 90)**			**SW846 8270C**
	65	**(45 - 90)**	**8.0**	**(0-43)**	**SW846 8270C**
3,3'-Dichlorobenzidine	15 a	(20 - 100)			SW846 8270C
	20	(20 - 100)	26	(0-50)	SW846 8270C
2,4-Dichlorophenol	48	(43 - 117)			SW846 8270C
	56	(43 - 117)	15	(0-46)	SW846 8270C
Diethyl phthalate	68	(48 - 106)			SW846 8270C
	70	(48 - 106)	2.6	(0-41)	SW846 8270C
2,4-Dimethylphenol	48	(36 - 97)			SW846 8270C
	58	(36 - 97)	18	(0-50)	SW846 8270C
Dimethyl phthalate	69	(53 - 102)			SW846 8270C
	72	(53 - 102)	3.8	(0-42)	SW846 8270C
4,6-Dinitro-2-methylphenol	7.3 a	(20 - 145)			SW846 8270C
	8.2 a	(20 - 145)	11	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrophenol	61	(20 - 150)			SW846 8270C
	61	(20 - 150)	0.0	(0-50)	SW846 8270C
2,4-Dinitrotoluene	**42 a**	**(44 - 127)**			**SW846 8270C**
	52	**(44 - 127)**	**21**	**(0-46)**	**SW846 8270C**
2,6-Dinitrotoluene	64	(45 - 136)			SW846 8270C
	66	(45 - 136)	2.8	(0-40)	SW846 8270C
Di-n-octyl phthalate	52 a	(57 - 127)			SW846 8270C
	57	(57 - 127)	8.3	(0-41)	SW846 8270C
1,2-Diphenylhydrazine	25 a	(42 - 111)			SW846 8270C
	30 a	(42 - 111)	21	(0-45)	SW846 8270C
Fluoranthene	11 a	(34 - 112)			SW846 8270C
	17 a	(34 - 112)	28	(0-47)	SW846 8270C
Fluorene	29 a	(43 - 105)			SW846 8270C
	47	(43 - 105)	31	(0-44)	SW846 8270C
Hexachlorobenzene	29 a	(55 - 107)			SW846 8270C
	35 a	(55 - 107)	18	(0-45)	SW846 8270C
Hexachlorobutadiene	65	(40 - 88)			SW846 8270C
	73	(40 - 88)	11	(0-38)	SW846 8270C
Hexachlorocyclopenta-diene	0.0	(20 - 85)			SW846 8270C
	7.1 a,p	(20 - 85)	200	(0-50)	SW846 8270C
Hexachloroethane	115 a	(42 - 95)			SW846 8270C
	125 a	(42 - 95)	8.8	(0-42)	SW846 8270C
Indeno(1,2,3-cd)pyrene	0.0	(41 - 122)			SW846 8270C
	0.0	(41 - 122)	0.0	(0-44)	SW846 8270C
Isophorone	67	(48 - 95)			SW846 8270C
	74	(48 - 95)	9.4	(0-36)	SW846 8270C
2-Methylnaphthalene	87	(48 - 97)			SW846 8270C
	177 a	(48 - 97)	25	(0-38)	SW846 8270C
2-Methylphenol	69	(48 - 105)			SW846 8270C
	78	(48 - 105)	12	(0-49)	SW846 8270C
Naphthalene	79	(42 - 94)			SW846 8270C
	138 a	(42 - 94)	19	(0-42)	SW846 8270C
2-Nitroaniline	39	(36 - 121)			SW846 8270C
	48	(36 - 121)	21	(0-41)	SW846 8270C
3-Nitroaniline	42	(20 - 104)			SW846 8270C
	41	(20 - 104)	2.9	(0-41)	SW846 8270C
4-Nitroaniline	34	(30 - 99)			SW846 8270C
	41	(30 - 99)	19	(0-50)	SW846 8270C
Nitrobenzene	53	(47 - 100)			SW846 8270C
	64	(47 - 100)	18	(0-42)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Nitrophenol	40	(38 - 118)			SW846 8270C
	46	(38 - 118)	15	(0-45)	SW846 8270C
4-Nitrophenol	**23 a**	**(34 - 128)**			**SW846 8270C**
	33 a	**(34 - 128)**	**38**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	72	(34 - 96)			SW846 8270C
	75	(34 - 96)	4.1	(0-47)	SW846 8270C
N-Nitrosodiphenylamine	80	(55 - 124)			SW846 8270C
	81	(55 - 124)	1.1	(0-43)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**69**	**(47 - 98)**			**SW846 8270C**
	70	**(47 - 98)**	**1.3**	**(0-40)**	**SW846 8270C**
Pentachlorophenol	**4.7 a**	**(20 - 139)**			**SW846 8270C**
	9.8 a,p	**(20 - 139)**	**70**	**(0-50)**	**SW846 8270C**
Phenanthrene	24 a	(32 - 115)			SW846 8270C
	39	(32 - 115)	25	(0-45)	SW846 8270C
Phenol	**76**	**(47 - 105)**			**SW846 8270C**
	95	**(47 - 105)**	**13**	**(0-42)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	62	(42 - 97)			SW846 8270C
	65	(42 - 97)	3.8	(0-40)	SW846 8270C
Pyrene	**12 a**	**(30 - 131)**			**SW846 8270C**
	17 a	**(30 - 131)**	**26**	**(0-48)**	**SW846 8270C**
Pyridine	56	(20 - 76)			SW846 8270C
	59	(20 - 76)	6.2	(0-50)	SW846 8270C
1,2,4-Trichloro-benzene	**55**	**(47 - 95)**			**SW846 8270C**
	77	**(47 - 95)**	**17**	**(0-46)**	**SW846 8270C**
2,4,5-Trichloro-phenol	29 a	(47 - 120)			SW846 8270C
	35 a	(47 - 120)	19	(0-46)	SW846 8270C
2,4,6-Trichloro-phenol	28 a	(40 - 121)			SW846 8270C
	32 a	(40 - 121)	11	(0-38)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	37 *	(44 - 93)
	46	(44 - 93)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Phenol-d5	50	(47 - 98)
	56	(47 - 98)
Nitrobenzene-d5	54	(45 - 100)
	59	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
	55	(49 - 100)
2,4,6-Tribromophenol	9.5 *	(42 - 124)
	17 *	(42 - 124)
Terphenyl-d14	9.2 *	(54 - 121)
	14 *	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**570**	**3330**	**1860**	**ug/kg**	**39 a**		**SW846 8270C**
	570	**3330**	**2280**	**ug/kg**	**51**	**20**	**SW846 8270C**
Acenaphthylene	1300	3330	2420	ug/kg	35 a		SW846 8270C
	1300	3330	3220	ug/kg	59	28	SW846 8270C
Aniline	ND	3330	1100	ug/kg	33		SW846 8270C
	ND	3330	1210	ug/kg	36	9.5	SW846 8270C
Anthracene	200	3330	673	ug/kg	14 a		SW846 8270C
	200	3330	909	ug/kg	21 a	30	SW846 8270C
Benz(a)anthracene	ND	3330	124	ug/kg	3.7 a		SW846 8270C
	ND	3330	159	ug/kg	4.8 a	25	SW846 8270C
Benzo(b)fluoranthene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	2.7	200	SW846 8270C
	Qualifiers: a,p						
Benzo(k)fluoranthene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	2.0	200	SW846 8270C
	Qualifiers: a,p						
Benzoic acid	ND	3330		ug/kg	17 a		SW846 8270C
	ND	3330		ug/kg	20	20	SW846 8270C
Benzo(ghi)perylene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	0.0	0.0	SW846 8270C
Benzo(a)pyrene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	3.2	200	SW846 8270C
	Qualifiers: a,p						
Benzyl alcohol	ND	3330	2460	ug/kg	74		SW846 8270C
	ND	3330	2610	ug/kg	78	5.9	SW846 8270C
bis(2-Chloroethoxy) methane	ND	3330	2280	ug/kg	68		SW846 8270C
	ND	3330	2510	ug/kg	75	9.6	SW846 8270C
bis(2-Chloroethyl)-ether	ND	3330	2190	ug/kg	66		SW846 8270C
	ND	3330	2240	ug/kg	67	2.2	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	3330	2580	ug/kg	70		SW846 8270C
	ND	3330	2780	ug/kg	76	7.5	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Bromophenyl phenyl ether	ND	3330	2370	ug/kg	71		SW846 8270C
	ND	3330	2450	ug/kg	74	3.3	SW846 8270C
Butyl benzyl phthalate	ND	3330	1910	ug/kg	57		SW846 8270C
	ND	3330	2100	ug/kg	63	9.5	SW846 8270C
Carbazole	ND	3330	821	ug/kg	25 a		SW846 8270C
	ND	3330	1090	ug/kg	33 a	28	SW846 8270C
4-Chloroaniline	ND	3330	1210	ug/kg	36		SW846 8270C
	ND	3330	1430	ug/kg	43	17	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**3330**	**1770**	**ug/kg**	**53**		**SW846 8270C**
	ND	**3330**	**2080**	**ug/kg**	**62**	**16**	**SW846 8270C**
2-Chloronaphthalene	ND	3330	952	ug/kg	29 a		SW846 8270C
	ND	3330	1230	ug/kg	37 a	25	SW846 8270C
2-Chlorophenol	**ND**	**3330**	**1730**	**ug/kg**	**52**		**SW846 8270C**
	ND	**3330**	**1860**	**ug/kg**	**56**	**7.2**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	3330	2160	ug/kg	65		SW846 8270C
	ND	3330	2440	ug/kg	73	12	SW846 8270C
Chrysene	ND	3330	124	ug/kg	3.7 a		SW846 8270C
	ND	3330	170	ug/kg	5.1 a	31	SW846 8270C
Dibenz(a,h)anthracene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	0.0	0.0	SW846 8270C
Dibenzofuran	ND	3330	790	ug/kg	24 a		SW846 8270C
	ND	3330	1070	ug/kg	32 a	30	SW846 8270C
Di-n-butyl phthalate	ND	3330	2370	ug/kg	71		SW846 8270C
	ND	3330	2460	ug/kg	74	3.7	SW846 8270C
1,2-Dichlorobenzene	26000	3330	29500	ug/kg	102 a		SW846 8270C
	26000	3330	32100	ug/kg	180 a	8.4	SW846 8270C
1,3-Dichlorobenzene	ND	3330	1780	ug/kg	53		SW846 8270C
	ND	3330	1920	ug/kg	58	7.6	SW846 8270C
1,4-Dichlorobenzene	**1900**	**3330**	**3710**	**ug/kg**	**55**		**SW846 8270C**
	1900	**3330**	**4020**	**ug/kg**	**65**	**8.0**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	3330	501	ug/kg	15 a		SW846 8270C
	ND	3330	652	ug/kg	20	26	SW846 8270C
2,4-Dichlorophenol	ND	3330	1610	ug/kg	48		SW846 8270C
	ND	3330	1870	ug/kg	56	15	SW846 8270C
Diethyl phthalate	ND	3330	2280	ug/kg	68		SW846 8270C
	ND	3330	2340	ug/kg	70	2.6	SW846 8270C
2,4-Dimethylphenol	ND	3330	1600	ug/kg	48		SW846 8270C
	ND	3330	1920	ug/kg	58	18	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dimethyl phthalate	ND	3330	2300	ug/kg	69		SW846 8270C
	ND	3330	2390	ug/kg	72	3.8	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	3330		ug/kg	7.3 a		SW846 8270C
	ND	3330		ug/kg	8.2 a	11	SW846 8270C
2,4-Dinitrophenol	ND	3330	2020	ug/kg	61		SW846 8270C
	ND	3330	2020	ug/kg	61	0.0	SW846 8270C
2,4-Dinitrotoluene	**ND**	**3330**	**1400**	**ug/kg**	**42 a**		**SW846 8270C**
	ND	**3330**	**1720**	**ug/kg**	**52**	**21**	**SW846 8270C**
2,6-Dinitrotoluene	ND	3330	2140	ug/kg	64		SW846 8270C
	ND	3330	2200	ug/kg	66	2.8	SW846 8270C
Di-n-octyl phthalate	ND	3330	1740	ug/kg	52 a		SW846 8270C
	ND	3330	1890	ug/kg	57	8.3	SW846 8270C
1,2-Diphenylhydrazine	ND	3330	816	ug/kg	25 a		SW846 8270C
	ND	3330	1010	ug/kg	30 a	21	SW846 8270C
Fluoranthene	140	3330	518	ug/kg	11 a		SW846 8270C
	140	3330	690	ug/kg	17 a	28	SW846 8270C
Fluorene	730	3330	1680	ug/kg	29 a		SW846 8270C
	730	3330	2290	ug/kg	47	31	SW846 8270C
Hexachlorobenzene	ND	3330	963	ug/kg	29 a		SW846 8270C
	ND	3330	1150	ug/kg	35 a	18	SW846 8270C
Hexachlorobutadiene	ND	3330	2160	ug/kg	65		SW846 8270C
	ND	3330	2420	ug/kg	73	11	SW846 8270C
Hexachlorocyclopenta-diene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	7.1	200	SW846 8270C
	Qualifiers: a,p						
Hexachloroethane	ND	3330	3820	ug/kg	115 a		SW846 8270C
	ND	3330	4170	ug/kg	125 a	8.8	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	0.0	0.0	SW846 8270C
Isophorone	ND	3330	2240	ug/kg	67		SW846 8270C
	ND	3330	2460	ug/kg	74	9.4	SW846 8270C
2-Methylnaphthalene	7700	3330	10600	ug/kg	87		SW846 8270C
	7700	3330	13600	ug/kg	177 a	25	SW846 8270C
2-Methylphenol	ND	3330	2290	ug/kg	69		SW846 8270C
	ND	3330	2590	ug/kg	78	12	SW846 8270C
Naphthalene	6500	3330	9130	ug/kg	79		SW846 8270C
	6500	3330	11100	ug/kg	138 a	19	SW846 8270C
2-Nitroaniline	ND	3330	1290	ug/kg	39		SW846 8270C
	ND	3330	1590	ug/kg	48	21	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Nitroaniline	ND	3330	1410	ug/kg	42		SW846 8270C
	ND	3330	1370	ug/kg	41	2.9	SW846 8270C
4-Nitroaniline	ND	3330	1120	ug/kg	34		SW846 8270C
	ND	3330	1350	ug/kg	41	19	SW846 8270C
Nitrobenzene	ND	3330	1770	ug/kg	53		SW846 8270C
	ND	3330	2130	ug/kg	64	18	SW846 8270C
2-Nitrophenol	ND	3330	1320	ug/kg	40		SW846 8270C
	ND	3330	1540	ug/kg	46	15	SW846 8270C
4-Nitrophenol	**ND**	**3330**		**ug/kg**	**23 a**		**SW846 8270C**
	ND	**3330**	**1110**	**ug/kg**	**33 a**	**38**	**SW846 8270C**
N-Nitrosodimethylamine	ND	3330	2400	ug/kg	72		SW846 8270C
	ND	3330	2500	ug/kg	75	4.1	SW846 8270C
N-Nitrosodiphenylamine	ND	3330	2660	ug/kg	80		SW846 8270C
	ND	3330	2690	ug/kg	81	1.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**3330**	**2290**	**ug/kg**	**69**		**SW846 8270C**
	ND	**3330**	**2320**	**ug/kg**	**70**	**1.3**	**SW846 8270C**
Pentachlorophenol	**ND**	**3330**		**ug/kg**	**4.7 a**		**SW846 8270C**
	ND	**3330**		**ug/kg**	**9.8**	**70**	**SW846 8270C**
	Qualifiers: a,p						
Phenanthrene	920	3330	1720	ug/kg	24 a		SW846 8270C
	920	3330	2220	ug/kg	39	25	SW846 8270C
Phenol	**2000**	**3330**	**4520**	**ug/kg**	**76**		**SW846 8270C**
	2000	**3330**	**5160**	**ug/kg**	**95**	**13**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	ND	3330	2080	ug/kg	62		SW846 8270C
	ND	3330	2160	ug/kg	65	3.8	SW846 8270C
Pyrene	**210**	**3330**	**606**	**ug/kg**	**12 a**		**SW846 8270C**
	210	**3330**	**786**	**ug/kg**	**17 a**	**26**	**SW846 8270C**
Pyridine	ND	3330	1860	ug/kg	56		SW846 8270C
	ND	3330	1980	ug/kg	59	6.2	SW846 8270C
1,2,4-Trichloro-benzene	**2000**	**3330**	**3850**	**ug/kg**	**55**		**SW846 8270C**
	2000	**3330**	**4570**	**ug/kg**	**77**	**17**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	3330	966	ug/kg	29 a		SW846 8270C
	ND	3330	1170	ug/kg	35 a	19	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4,6-Trichloro-phenol	ND	3330	947	ug/kg	28 a		SW846 8270C
	ND	3330	1060	ug/kg	32 a	11	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	37 *	(44 - 93)
	46	(44 - 93)
Phenol-d5	50	(47 - 98)
	56	(47 - 98)
Nitrobenzene-d5	54	(45 - 100)
	59	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
	55	(49 - 100)
2,4,6-Tribromophenol	9.5 *	(42 - 124)
	17 *	(42 - 124)
Terphenyl-d14	9.2 *	(54 - 121)
	14 *	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AA **Matrix.....:** WATER
MB Lot-Sample #: H6D040000-076

Prep Date.....: 04/04/06
Analysis Date..: 04/18/06 **Prep Batch #...:** 6094076
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Benz(a)anthracene	ND	10	ug/L	SW846 8270C
Benzidine	ND	100	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzoic acid	ND	50	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
1,2-Diphenylhydrazine	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(36 - 98)
Phenol-d5	67	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	83	(56 - 118)
2,4,6-Tribromophenol	77	(55 - 134)
Terphenyl-d14	95	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL Knoxville - ACS

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: H6D040000-076 B **Work Order #:** H2H9X1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**83**	**(65 - 107)**	**SW846 8270C**
Acenaphthylene	82	(63 - 108)	SW846 8270C
Aniline	60	(34 - 105)	SW846 8270C
Anthracene	85	(65 - 115)	SW846 8270C
Benz(a)anthracene	89	(70 - 114)	SW846 8270C
Benzo(b)fluoranthene	73	(58 - 127)	SW846 8270C
Benzo(k)fluoranthene	93	(62 - 121)	SW846 8270C
Benzoic acid	53	(20 - 125)	SW846 8270C
Benzo(ghi)perylene	80	(65 - 120)	SW846 8270C
Benzo(a)pyrene	83	(67 - 112)	SW846 8270C
Benzyl alcohol	77	(69 - 119)	SW846 8270C
bis(2-Chloroethoxy) methane	73	(64 - 107)	SW846 8270C
bis(2-Chloroethyl)-ether	72	(65 - 111)	SW846 8270C
bis(2-Ethylhexyl) phthalate	81	(74 - 127)	SW846 8270C
4-Bromophenyl phenyl ether	98	(79 - 133)	SW846 8270C
Butyl benzyl phthalate	74	(74 - 116)	SW846 8270C
Carbazole	83	(62 - 109)	SW846 8270C
4-Chloroaniline	56	(25 - 90)	SW846 8270C
4-Chloro-3-methylphenol	**80**	**(71 - 118)**	**SW846 8270C**
2-Chloronaphthalene	79	(70 - 109)	SW846 8270C
2-Chlorophenol	**74**	**(63 - 114)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	91	(73 - 111)	SW846 8270C
Chrysene	90	(70 - 110)	SW846 8270C
Dibenz(a,h)anthracene	79	(70 - 126)	SW846 8270C
Dibenzofuran	86	(70 - 110)	SW846 8270C
Di-n-butyl phthalate	78	(68 - 121)	SW846 8270C
1,2-Dichlorobenzene	76	(65 - 109)	SW846 8270C
1,3-Dichlorobenzene	75	(64 - 109)	SW846 8270C
1,4-Dichlorobenzene	**76**	**(65 - 111)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
3,3'-Dichlorobenzidine	60	(34 - 99)	SW846 8270C
2,4-Dichlorophenol	87	(66 - 116)	SW846 8270C
Diethyl phthalate	76	(63 - 116)	SW846 8270C
2,4-Dimethylphenol	41	(40 - 85)	SW846 8270C
Dimethyl phthalate	81	(71 - 111)	SW846 8270C
4,6-Dinitro-2-methylphenol	88	(66 - 139)	SW846 8270C
2,4-Dinitrophenol	87	(30 - 150)	SW846 8270C
2,4-Dinitrotoluene	**84**	**(72 - 131)**	**SW846 8270C**
2,6-Dinitrotoluene	88	(71 - 142)	SW846 8270C
Di-n-octyl phthalate	75 a	(76 - 123)	SW846 8270C
1,2-Diphenylhydrazine	73	(61 - 113)	SW846 8270C
Fluoranthene	96	(66 - 114)	SW846 8270C
Fluorene	85	(61 - 111)	SW846 8270C
Hexachlorobenzene	79	(71 - 116)	SW846 8270C
Hexachlorobutadiene	76	(56 - 108)	SW846 8270C
Hexachlorocyclopenta-diene	46	(15 - 90)	SW846 8270C
Hexachloroethane	71	(65 - 119)	SW846 8270C
Indeno(1,2,3-cd)pyrene	78	(67 - 121)	SW846 8270C
Isophorone	76	(68 - 108)	SW846 8270C
2-Methylnaphthalene	91	(66 - 108)	SW846 8270C
2-Methylphenol	72	(62 - 108)	SW846 8270C
Naphthalene	78	(63 - 108)	SW846 8270C
2-Nitroaniline	72	(56 - 121)	SW846 8270C
3-Nitroaniline	67	(46 - 104)	SW846 8270C
4-Nitroaniline	68	(52 - 112)	SW846 8270C
Nitrobenzene	78	(70 - 116)	SW846 8270C
2-Nitrophenol	86	(61 - 133)	SW846 8270C
4-Nitrophenol	**67**	**(61 - 128)**	**SW846 8270C**
N-Nitrosodimethylamine	85	(59 - 117)	SW846 8270C
N-Nitrosodiphenylamine	86	(70 - 123)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**76**	**(62 - 114)**	**SW846 8270C**
Pentachlorophenol	**81**	**(71 - 122)**	**SW846 8270C**
Phenanthrene	87	(64 - 108)	SW846 8270C
Phenol	**76**	**(59 - 117)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
bis(2-Chloroisopropyl) ether	68	(60 - 112)	SW846 8270C
Pyrene	**96**	**(67 - 114)**	**SW846 8270C**
Pyridine	72	(37 - 107)	SW846 8270C
1,2,4-Trichloro-benzene	**92**	**(66 - 113)**	**SW846 8270C**
2,4,5-Trichloro-phenol	84	(72 - 117)	SW846 8270C
2,4,6-Trichloro-phenol	84	(69 - 118)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(36 - 98)
Phenol-d5	74	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	86	(56 - 118)
2,4,6-Tribromophenol	81	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**100**	**82.6**	**ug/L**	**83**	**SW846 8270C**
Acenaphthylene	100	82.1	ug/L	82	SW846 8270C
Aniline	100	59.9	ug/L	60	SW846 8270C
Anthracene	100	85.4	ug/L	85	SW846 8270C
Benz(a)anthracene	100	89.2	ug/L	89	SW846 8270C
Benzo(b)fluoranthene	100	73.0	ug/L	73	SW846 8270C
Benzo(k)fluoranthene	100	93.3	ug/L	93	SW846 8270C
Benzoic acid	100	52.8	ug/L	53	SW846 8270C
Benzo(ghi)perylene	100	80.5	ug/L	80	SW846 8270C
Benzo(a)pyrene	100	83.4	ug/L	83	SW846 8270C
Benzyl alcohol	100	77.0	ug/L	77	SW846 8270C
bis(2-Chloroethoxy) methane	100	73.4	ug/L	73	SW846 8270C
bis(2-Chloroethyl)-ether	100	72.3	ug/L	72	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	81.4	ug/L	81	SW846 8270C
4-Bromophenyl phenyl ether	100	98.3	ug/L	98	SW846 8270C
Butyl benzyl phthalate	100	74.4	ug/L	74	SW846 8270C
Carbazole	100	83.0	ug/L	83	SW846 8270C
4-Chloroaniline	100	55.5	ug/L	56	SW846 8270C
4-Chloro-3-methylphenol	**100**	**79.7**	**ug/L**	**80**	**SW846 8270C**
2-Chloronaphthalene	100	79.3	ug/L	79	SW846 8270C
2-Chlorophenol	**100**	**73.5**	**ug/L**	**74**	**SW846 8270C**
4-Chlorophenyl phenyl ether	100	91.4	ug/L	91	SW846 8270C
Chrysene	100	89.5	ug/L	90	SW846 8270C
Dibenz(a,h)anthracene	100	79.0	ug/L	79	SW846 8270C
Dibenzofuran	100	86.4	ug/L	86	SW846 8270C
Di-n-butyl phthalate	100	78.2	ug/L	78	SW846 8270C
1,2-Dichlorobenzene	100	76.3	ug/L	76	SW846 8270C
1,3-Dichlorobenzene	100	75.3	ug/L	75	SW846 8270C
1,4-Dichlorobenzene	**100**	**75.8**	**ug/L**	**76**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3,3'-Dichlorobenzidine	100	59.7	ug/L	60	SW846 8270C
2,4-Dichlorophenol	100	86.6	ug/L	87	SW846 8270C
Diethyl phthalate	100	76.5	ug/L	76	SW846 8270C
2,4-Dimethylphenol	100	40.8	ug/L	41	SW846 8270C
Dimethyl phthalate	100	81.3	ug/L	81	SW846 8270C
4,6-Dinitro-2-methylphenol	100	87.8	ug/L	88	SW846 8270C
2,4-Dinitrophenol	100	86.8	ug/L	87	SW846 8270C
2,4-Dinitrotoluene	**100**	**84.5**	**ug/L**	**84**	**SW846 8270C**
2,6-Dinitrotoluene	100	87.8	ug/L	88	SW846 8270C
Di-n-octyl phthalate	100	74.8 a	ug/L	75	SW846 8270C
1,2-Diphenylhydrazine	100	73.2	ug/L	73	SW846 8270C
Fluoranthene	100	96.2	ug/L	96	SW846 8270C
Fluorene	100	85.0	ug/L	85	SW846 8270C
Hexachlorobenzene	100	79.3	ug/L	79	SW846 8270C
Hexachlorobutadiene	100	76.1	ug/L	76	SW846 8270C
Hexachlorocyclopentadiene	100	46.1	ug/L	46	SW846 8270C
Hexachloroethane	100	70.6	ug/L	71	SW846 8270C
Indeno(1,2,3-cd)pyrene	100	78.2	ug/L	78	SW846 8270C
Isophorone	100	76.0	ug/L	76	SW846 8270C
2-Methylnaphthalene	100	91.1	ug/L	91	SW846 8270C
2-Methylphenol	100	72.0	ug/L	72	SW846 8270C
Naphthalene	100	78.0	ug/L	78	SW846 8270C
2-Nitroaniline	100	71.9	ug/L	72	SW846 8270C
3-Nitroaniline	100	66.9	ug/L	67	SW846 8270C
4-Nitroaniline	100	67.7	ug/L	68	SW846 8270C
Nitrobenzene	100	78.2	ug/L	78	SW846 8270C
2-Nitrophenol	100	85.9	ug/L	86	SW846 8270C
4-Nitrophenol	**100**	**67.2**	**ug/L**	**67**	**SW846 8270C**
N-Nitrosodimethylamine	100	85.4	ug/L	85	SW846 8270C
N-Nitrosodiphenylamine	100	86.5	ug/L	86	SW846 8270C
N-Nitrosodi-n-propylamine	**100**	**75.6**	**ug/L**	**76**	**SW846 8270C**
Pentachlorophenol	**100**	**81.2**	**ug/L**	**81**	**SW846 8270C**
Phenanthrene	100	87.4	ug/L	87	SW846 8270C
Phenol	**100**	**75.7**	**ug/L**	**76**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
bis(2-Chloroisopropyl) ether	100	67.5	ug/L	68	SW846 8270C
Pyrene	**100**	**96.5**	**ug/L**	**96**	**SW846 8270C**
Pyridine	100	72.2	ug/L	72	SW846 8270C
1,2,4-Trichloro-benzene	**100**	**91.6**	**ug/L**	**92**	**SW846 8270C**
2,4,5-Trichloro-phenol	100	84.1	ug/L	84	SW846 8270C
2,4,6-Trichloro-phenol	100	84.2	ug/L	84	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(36 - 98)
Phenol-d5	74	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	86	(56 - 118)
2,4,6-Tribromophenol	81	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**81**	**(65 - 107)**			**SW846 8270C**
	82	**(65 - 107)**	**1.2**	**(0-26)**	**SW846 8270C**
Acenaphthylene	82	(62 - 108)			SW846 8270C
	81	(62 - 108)	0.93	(0-30)	SW846 8270C
Aniline	57	(25 - 105)			SW846 8270C
	47	(25 - 105)	19	(0-39)	SW846 8270C
Anthracene	83	(64 - 115)			SW846 8270C
	87	(64 - 115)	4.4	(0-21)	SW846 8270C
Benzo(b)fluoranthene	72	(53 - 127)			SW846 8270C
	71	(53 - 127)	0.66	(0-45)	SW846 8270C
Benzo(k)fluoranthene	86	(55 - 121)			SW846 8270C
	91	(55 - 121)	6.6	(0-48)	SW846 8270C
Benzoic acid	65	(20 - 141)			SW846 8270C
	68	(20 - 141)	4.1	(0-49)	SW846 8270C
Benzo(ghi)perylene	77	(56 - 123)			SW846 8270C
	78	(56 - 123)	1.1	(0-31)	SW846 8270C
Benzo(a)pyrene	80	(56 - 112)			SW846 8270C
	82	(56 - 112)	2.7	(0-32)	SW846 8270C
Benzyl alcohol	73	(68 - 122)			SW846 8270C
	69	(68 - 122)	6.0	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	72	(64 - 108)			SW846 8270C
	64	(64 - 108)	11	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	69	(63 - 113)			SW846 8270C
	61 a	(63 - 113)	13	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	80	(62 - 138)			SW846 8270C
	84	(62 - 138)	4.8	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	98	(78 - 136)			SW846 8270C
	100	(78 - 136)	1.9	(0-23)	SW846 8270C
Butyl benzyl phthalate	73	(67 - 123)			SW846 8270C
	77	(67 - 123)	6.5	(0-27)	SW846 8270C
Carbazole	81	(62 - 109)			SW846 8270C
	84	(62 - 109)	3.2	(0-21)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	45	(24 - 90)			SW846 8270C
	46	(24 - 90)	1.7	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**79**	**(66 - 130)**			**SW846 8270C**
	79	**(66 - 130)**	**0.72**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	78	(70 - 109)			SW846 8270C
	75	(70 - 109)	3.8	(0-28)	SW846 8270C
2-Chlorophenol	**71**	**(59 - 118)**			**SW846 8270C**
	63	**(59 - 118)**	**12**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	91	(71 - 114)			SW846 8270C
	92	(71 - 114)	1.0	(0-23)	SW846 8270C
Chrysene	82	(62 - 114)			SW846 8270C
	85	(62 - 114)	3.3	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	75	(61 - 129)			SW846 8270C
	75	(61 - 129)	0.76	(0-28)	SW846 8270C
Dibenzofuran	85	(70 - 111)			SW846 8270C
	86	(70 - 111)	1.1	(0-25)	SW846 8270C
Di-n-butyl phthalate	78	(67 - 126)			SW846 8270C
	84	(67 - 126)	7.1	(0-20)	SW846 8270C
1,2-Dichlorobenzene	74	(58 - 114)			SW846 8270C
	63	(58 - 114)	16	(0-35)	SW846 8270C
1,3-Dichlorobenzene	74	(57 - 112)			SW846 8270C
	63	(57 - 112)	16	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**73**	**(58 - 113)**			**SW846 8270C**
	63	**(58 - 113)**	**14**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	43	(20 - 100)			SW846 8270C
	45	(20 - 100)	5.2	(0-50)	SW846 8270C
2,4-Dichlorophenol	86	(65 - 121)			SW846 8270C
	77	(65 - 121)	11	(0-36)	SW846 8270C
Diethyl phthalate	75	(60 - 116)			SW846 8270C
	78	(60 - 116)	4.5	(0-21)	SW846 8270C
2,4-Dimethylphenol	36	(30 - 107)			SW846 8270C
	37	(30 - 107)	4.7	(0-41)	SW846 8270C
Dimethyl phthalate	81	(68 - 114)			SW846 8270C
	84	(68 - 114)	3.1	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	90	(66 - 147)			SW846 8270C
	96	(66 - 147)	6.6	(0-44)	SW846 8270C
2,4-Dinitrophenol	90	(30 - 150)			SW846 8270C
	95	(30 - 150)	4.8	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**86**	**(69 - 131)**			**SW846 8270C**
	91	**(69 - 131)**	**6.0**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	86	(71 - 142)			SW846 8270C
	91	(71 - 142)	4.6	(0-30)	SW846 8270C
Di-n-octyl phthalate	72	(67 - 127)			SW846 8270C
	76	(67 - 127)	5.1	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	73	(61 - 111)			SW846 8270C
	75	(61 - 111)	3.3	(0-32)	SW846 8270C
Fluoranthene	93	(60 - 119)			SW846 8270C
	98	(60 - 119)	5.0	(0-23)	SW846 8270C
Fluorene	85	(60 - 111)			SW846 8270C
	87	(60 - 111)	2.0	(0-24)	SW846 8270C
Hexachlorobenzene	79	(65 - 120)			SW846 8270C
	83	(65 - 120)	5.8	(0-22)	SW846 8270C
Hexachlorobutadiene	75	(51 - 110)			SW846 8270C
	64	(51 - 110)	16	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	42	(20 - 92)			SW846 8270C
	49	(20 - 92)	16	(0-50)	SW846 8270C
Hexachloroethane	68	(57 - 122)			SW846 8270C
	59	(57 - 122)	14	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	76	(56 - 124)			SW846 8270C
	74	(56 - 124)	2.5	(0-29)	SW846 8270C
Isophorone	75	(68 - 110)			SW846 8270C
	70	(68 - 110)	7.3	(0-30)	SW846 8270C
2-Methylnaphthalene	91	(62 - 110)			SW846 8270C
	83	(62 - 110)	9.4	(0-29)	SW846 8270C
2-Methylphenol	68	(58 - 115)			SW846 8270C
	63	(58 - 115)	8.6	(0-38)	SW846 8270C
Naphthalene	77	(61 - 108)			SW846 8270C
	68	(61 - 108)	13	(0-35)	SW846 8270C
2-Nitroaniline	69	(56 - 121)			SW846 8270C
	72	(56 - 121)	5.3	(0-25)	SW846 8270C
3-Nitroaniline	55	(42 - 104)			SW846 8270C
	60	(42 - 104)	8.7	(0-32)	SW846 8270C
4-Nitroaniline	49	(48 - 112)			SW846 8270C
	54	(48 - 112)	9.1	(0-30)	SW846 8270C
Nitrobenzene	88	(67 - 118)			SW846 8270C
	72	(67 - 118)	20	(0-35)	SW846 8270C
2-Nitrophenol	86	(60 - 133)			SW846 8270C
	77	(60 - 133)	10	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**72**	**(61 - 142)**			**SW846 8270C**
	71	**(61 - 142)**	**0.66**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	82	(56 - 121)			SW846 8270C
	71	(56 - 121)	14	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	89	(59 - 128)			SW846 8270C
	93	(59 - 128)	4.2	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**71**	**(60 - 117)**			**SW846 8270C**
	68	**(60 - 117)**	**5.0**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**83**	**(71 - 135)**			**SW846 8270C**
	86	**(71 - 135)**	**3.9**	**(0-37)**	**SW846 8270C**
Phenanthrene	86	(64 - 108)			SW846 8270C
	90	(64 - 108)	3.7	(0-21)	SW846 8270C
Phenol	**74**	**(55 - 123)**			**SW846 8270C**
	65	**(55 - 123)**	**13**	**(0-41)**	**SW846 8270C**
Pyrene	**94**	**(63 - 114)**			**SW846 8270C**
	97	**(63 - 114)**	**3.4**	**(0-27)**	**SW846 8270C**
Pyridine	70	(37 - 107)			SW846 8270C
	59	(37 - 107)	17	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**90**	**(63 - 113)**			**SW846 8270C**
	76	**(63 - 113)**	**17**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	83	(72 - 120)			SW846 8270C
	85	(72 - 120)	2.9	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	83	(69 - 122)			SW846 8270C
	83	(69 - 122)	0.57	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(36 - 98)
	52	(36 - 98)
Phenol-d5	71	(49 - 109)
	62	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	64	(57 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(56 - 118)
	80	(56 - 118)
2,4,6-Tribromophenol	80	(55 - 134)
	83	(55 - 134)
Terphenyl-d14	77	(33 - 142)
	74	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**105**	**85.3**	**ug/L**	**81**		**SW846 8270C**
	ND	**105**	**86.3**	**ug/L**	**82**	**1.2**	**SW846 8270C**
Acenaphthylene	ND	105	85.9	ug/L	82		SW846 8270C
	ND	105	85.1	ug/L	81	0.93	SW846 8270C
Aniline	ND	105	59.8	ug/L	57		SW846 8270C
	ND	105	49.5	ug/L	47	19	SW846 8270C
Anthracene	ND	105	87.3	ug/L	83		SW846 8270C
	ND	105	91.2	ug/L	87	4.4	SW846 8270C
Benzo(b)fluoranthene	ND	105	75.5	ug/L	72		SW846 8270C
	ND	105	75.0	ug/L	71	0.66	SW846 8270C
Benzo(k)fluoranthene	ND	105	89.9	ug/L	86		SW846 8270C
	ND	105	96.0	ug/L	91	6.6	SW846 8270C
Benzoic acid	ND	105	68.7	ug/L	65		SW846 8270C
	ND	105	71.6	ug/L	68	4.1	SW846 8270C
Benzo(ghi)perylene	ND	105	80.6	ug/L	77		SW846 8270C
	ND	105	81.5	ug/L	78	1.1	SW846 8270C
Benzo(a)pyrene	ND	105	84.2	ug/L	80		SW846 8270C
	ND	105	86.5	ug/L	82	2.7	SW846 8270C
Benzyl alcohol	ND	105	77.1	ug/L	73		SW846 8270C
	ND	105	72.6	ug/L	69	6.0	SW846 8270C
bis(2-Chloroethoxy) methane	ND	105	75.8	ug/L	72		SW846 8270C
	ND	105	67.7	ug/L	64	11	SW846 8270C
bis(2-Chloroethyl)-ether	ND	105	72.6	ug/L	69		SW846 8270C
	ND	105	63.7	ug/L	61 a	13	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	105	84.0	ug/L	80		SW846 8270C
	ND	105	88.1	ug/L	84	4.8	SW846 8270C
4-Bromophenyl phenyl ether	ND	105	103	ug/L	98		SW846 8270C
	ND	105	105	ug/L	100	1.9	SW846 8270C
Butyl benzyl phthalate	ND	105	76.2	ug/L	73		SW846 8270C
	ND	105	81.3	ug/L	77	6.5	SW846 8270C
Carbazole	ND	105	85.3	ug/L	81		SW846 8270C
	ND	105	88.1	ug/L	84	3.2	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	105	47.4	ug/L	45		SW846 8270C
	ND	105	48.2	ug/L	46	1.7	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**105**	**82.6**	**ug/L**	**79**		**SW846 8270C**
	ND	**105**	**83.2**	**ug/L**	**79**	**0.72**	**SW846 8270C**
2-Chloronaphthalene	ND	105	82.2	ug/L	78		SW846 8270C
	ND	105	79.1	ug/L	75	3.8	SW846 8270C
2-Chlorophenol	**ND**	**105**	**74.4**	**ug/L**	**71**		**SW846 8270C**
	ND	**105**	**65.7**	**ug/L**	**63**	**12**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	105	95.9	ug/L	91		SW846 8270C
	ND	105	96.9	ug/L	92	1.0	SW846 8270C
Chrysene	ND	105	85.9	ug/L	82		SW846 8270C
	ND	105	88.8	ug/L	85	3.3	SW846 8270C
Dibenz(a,h)anthracene	ND	105	79.0	ug/L	75		SW846 8270C
	ND	105	78.4	ug/L	75	0.76	SW846 8270C
Dibenzofuran	ND	105	89.4	ug/L	85		SW846 8270C
	ND	105	90.4	ug/L	86	1.1	SW846 8270C
Di-n-butyl phthalate	ND	105	81.8	ug/L	78		SW846 8270C
	ND	105	87.8	ug/L	84	7.1	SW846 8270C
1,2-Dichlorobenzene	ND	105	77.6	ug/L	74		SW846 8270C
	ND	105	66.2	ug/L	63	16	SW846 8270C
1,3-Dichlorobenzene	ND	105	77.6	ug/L	74		SW846 8270C
	ND	105	66.4	ug/L	63	16	SW846 8270C
1,4-Dichlorobenzene	**ND**	**105**	**76.8**	**ug/L**	**73**		**SW846 8270C**
	ND	**105**	**66.6**	**ug/L**	**63**	**14**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	105	45.0	ug/L	43		SW846 8270C
	ND	105	47.4	ug/L	45	5.2	SW846 8270C
2,4-Dichlorophenol	ND	105	90.3	ug/L	86		SW846 8270C
	ND	105	81.0	ug/L	77	11	SW846 8270C
Diethyl phthalate	ND	105	78.6	ug/L	75		SW846 8270C
	ND	105	82.2	ug/L	78	4.5	SW846 8270C
2,4-Dimethylphenol	ND	105	37.4	ug/L	36		SW846 8270C
	ND	105	39.2	ug/L	37	4.7	SW846 8270C
Dimethyl phthalate	ND	105	85.1	ug/L	81		SW846 8270C
	ND	105	87.8	ug/L	84	3.1	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	105	94.5	ug/L	90		SW846 8270C
	ND	105	101	ug/L	96	6.6	SW846 8270C
2,4-Dinitrophenol	ND	105	94.9	ug/L	90		SW846 8270C
	ND	105	99.6	ug/L	95	4.8	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**105**	**90.0**	**ug/L**	**86**		**SW846 8270C**
	ND	**105**	**95.6**	**ug/L**	**91**	**6.0**	**SW846 8270C**
2,6-Dinitrotoluene	ND	105	90.8	ug/L	86		SW846 8270C
	ND	105	95.1	ug/L	91	4.6	SW846 8270C
Di-n-octyl phthalate	ND	105	76.0	ug/L	72		SW846 8270C
	ND	105	80.0	ug/L	76	5.1	SW846 8270C
1,2-Diphenylhydrazine	ND	105	76.4	ug/L	73		SW846 8270C
	ND	105	79.0	ug/L	75	3.3	SW846 8270C
Fluoranthene	ND	105	98.0	ug/L	93		SW846 8270C
	ND	105	103	ug/L	98	5.0	SW846 8270C
Fluorene	ND	105	89.6	ug/L	85		SW846 8270C
	ND	105	91.4	ug/L	87	2.0	SW846 8270C
Hexachlorobenzene	ND	105	82.5	ug/L	79		SW846 8270C
	ND	105	87.4	ug/L	83	5.8	SW846 8270C
Hexachlorobutadiene	ND	105	79.0	ug/L	75		SW846 8270C
	ND	105	67.6	ug/L	64	16	SW846 8270C
Hexachlorocyclopenta-diene	ND	105	44.1	ug/L	42		SW846 8270C
	ND	105	51.9	ug/L	49	16	SW846 8270C
Hexachloroethane	ND	105	71.0	ug/L	68		SW846 8270C
	ND	105	62.0	ug/L	59	14	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	105	79.9	ug/L	76		SW846 8270C
	ND	105	77.9	ug/L	74	2.5	SW846 8270C
Isophorone	ND	105	79.0	ug/L	75		SW846 8270C
	ND	105	73.4	ug/L	70	7.3	SW846 8270C
2-Methylnaphthalene	ND	105	95.5	ug/L	91		SW846 8270C
	ND	105	86.9	ug/L	83	9.4	SW846 8270C
2-Methylphenol	ND	105	71.9	ug/L	68		SW846 8270C
	ND	105	66.0	ug/L	63	8.6	SW846 8270C
Naphthalene	ND	105	80.4	ug/L	77		SW846 8270C
	ND	105	70.9	ug/L	68	13	SW846 8270C
2-Nitroaniline	ND	105	72.2	ug/L	69		SW846 8270C
	ND	105	76.1	ug/L	72	5.3	SW846 8270C
3-Nitroaniline	ND	105	57.3	ug/L	55		SW846 8270C
	ND	105	62.5	ug/L	60	8.7	SW846 8270C
4-Nitroaniline	ND	105	51.5	ug/L	49		SW846 8270C
	ND	105	56.4	ug/L	54	9.1	SW846 8270C
Nitrobenzene	ND	105	92.6	ug/L	88		SW846 8270C
	ND	105	75.7	ug/L	72	20	SW846 8270C
2-Nitrophenol	ND	105	90.1	ug/L	86		SW846 8270C
	ND	105	81.3	ug/L	77	10	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**105**	**75.1**	**ug/L**	**72**		**SW846 8270C**
	ND	**105**	**74.6**	**ug/L**	**71**	**0.66**	**SW846 8270C**
N-Nitrosodimethylamine	ND	105	86.6	ug/L	82		SW846 8270C
	ND	105	74.9	ug/L	71	14	SW846 8270C
N-Nitrosodiphenylamine	ND	105	93.6	ug/L	89		SW846 8270C
	ND	105	97.6	ug/L	93	4.2	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**105**	**74.5**	**ug/L**	**71**		**SW846 8270C**
	ND	**105**	**70.9**	**ug/L**	**68**	**5.0**	**SW846 8270C**
Pentachlorophenol	**ND**	**105**	**87.0**	**ug/L**	**83**		**SW846 8270C**
	ND	**105**	**90.5**	**ug/L**	**86**	**3.9**	**SW846 8270C**
Phenanthrene	ND	105	90.6	ug/L	86		SW846 8270C
	ND	105	94.0	ug/L	90	3.7	SW846 8270C
Phenol	**ND**	**105**	**77.5**	**ug/L**	**74**		**SW846 8270C**
	ND	**105**	**68.2**	**ug/L**	**65**	**13**	**SW846 8270C**
Pyrene	**ND**	**105**	**98.6**	**ug/L**	**94**		**SW846 8270C**
	ND	**105**	**102**	**ug/L**	**97**	**3.4**	**SW846 8270C**
Pyridine	ND	105	73.2	ug/L	70		SW846 8270C
	ND	105	61.8	ug/L	59	17	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**105**	**94.8**	**ug/L**	**90**		**SW846 8270C**
	ND	**105**	**79.8**	**ug/L**	**76**	**17**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	105	87.1	ug/L	83		SW846 8270C
	ND	105	89.7	ug/L	85	2.9	SW846 8270C
2,4,6-Trichloro-phenol	ND	105	86.8	ug/L	83		SW846 8270C
	ND	105	87.3	ug/L	83	0.57	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(36 - 98)
	52	(36 - 98)
Phenol-d5	71	(49 - 109)
	62	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	64	(57 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(56 - 118)
	80	(56 - 118)
2,4,6-Tribromophenol	80	(55 - 134)
	83	(55 - 134)
Terphenyl-d14	77	(33 - 142)
	74	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**85**	**(65 - 107)**			**SW846 8270C**
	85	**(65 - 107)**	**0.0**	**(0-26)**	**SW846 8270C**
Acenaphthylene	83	(62 - 108)			SW846 8270C
	85	(62 - 108)	1.9	(0-30)	SW846 8270C
Aniline	52	(25 - 105)			SW846 8270C
	54	(25 - 105)	4.7	(0-39)	SW846 8270C
Anthracene	90	(64 - 115)			SW846 8270C
	90	(64 - 115)	0.53	(0-21)	SW846 8270C
Benzo(b)fluoranthene	91	(53 - 127)			SW846 8270C
	90	(53 - 127)	0.63	(0-45)	SW846 8270C
Benzo(k)fluoranthene	82	(55 - 121)			SW846 8270C
	82	(55 - 121)	0.35	(0-48)	SW846 8270C
Benzoic acid	65	(20 - 141)			SW846 8270C
	67	(20 - 141)	2.8	(0-49)	SW846 8270C
Benzo(ghi)perylene	86	(56 - 123)			SW846 8270C
	85	(56 - 123)	2.0	(0-31)	SW846 8270C
Benzo(a)pyrene	86	(56 - 112)			SW846 8270C
	86	(56 - 112)	0.11	(0-32)	SW846 8270C
Benzyl alcohol	75	(68 - 122)			SW846 8270C
	76	(68 - 122)	0.76	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	72	(64 - 108)			SW846 8270C
	72	(64 - 108)	0.40	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	68	(63 - 113)			SW846 8270C
	72	(63 - 113)	4.9	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	85	(62 - 138)			SW846 8270C
	85	(62 - 138)	0.45	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	101	(78 - 136)			SW846 8270C
	103	(78 - 136)	1.9	(0-23)	SW846 8270C
Butyl benzyl phthalate	78	(67 - 123)			SW846 8270C
	80	(67 - 123)	1.6	(0-27)	SW846 8270C
Carbazole	86	(62 - 109)			SW846 8270C
	86	(62 - 109)	0.11	(0-21)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	40	(24 - 90)			SW846 8270C
	43	(24 - 90)	9.0	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**80**	**(66 - 130)**			**SW846 8270C**
	82	**(66 - 130)**	**3.0**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	78	(70 - 109)			SW846 8270C
	79	(70 - 109)	1.1	(0-28)	SW846 8270C
2-Chlorophenol	**71**	**(59 - 118)**			**SW846 8270C**
	74	**(59 - 118)**	**3.4**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	95	(71 - 114)			SW846 8270C
	95	(71 - 114)	0.50	(0-23)	SW846 8270C
Chrysene	92	(62 - 114)			SW846 8270C
	94	(62 - 114)	1.6	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	84	(61 - 129)			SW846 8270C
	85	(61 - 129)	1.1	(0-28)	SW846 8270C
Dibenzofuran	88	(70 - 111)			SW846 8270C
	89	(70 - 111)	0.97	(0-25)	SW846 8270C
Di-n-butyl phthalate	83	(67 - 126)			SW846 8270C
	83	(67 - 126)	0.11	(0-20)	SW846 8270C
1,2-Dichlorobenzene	71	(58 - 114)			SW846 8270C
	74	(58 - 114)	4.8	(0-35)	SW846 8270C
1,3-Dichlorobenzene	70	(57 - 112)			SW846 8270C
	74	(57 - 112)	4.7	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**71**	**(58 - 113)**			**SW846 8270C**
	73	**(58 - 113)**	**3.7**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	43	(20 - 100)			SW846 8270C
	42	(20 - 100)	0.45	(0-50)	SW846 8270C
2,4-Dichlorophenol	84	(65 - 121)			SW846 8270C
	86	(65 - 121)	1.8	(0-36)	SW846 8270C
Diethyl phthalate	82	(60 - 116)			SW846 8270C
	81	(60 - 116)	0.23	(0-21)	SW846 8270C
2,4-Dimethylphenol	47	(30 - 107)			SW846 8270C
	53	(30 - 107)	12	(0-41)	SW846 8270C
Dimethyl phthalate	86	(68 - 114)			SW846 8270C
	86	(68 - 114)	0.0	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	99	(66 - 147)			SW846 8270C
	99	(66 - 147)	0.0	(0-44)	SW846 8270C
2,4-Dinitrophenol	99	(30 - 150)			SW846 8270C
	96	(30 - 150)	3.0	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**91**	**(69 - 131)**			**SW846 8270C**
	93	**(69 - 131)**	**1.7**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	92	(71 - 142)			SW846 8270C
	92	(71 - 142)	0.20	(0-30)	SW846 8270C
Di-n-octyl phthalate	79	(67 - 127)			SW846 8270C
	76	(67 - 127)	2.8	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	77	(61 - 111)			SW846 8270C
	77	(61 - 111)	0.49	(0-32)	SW846 8270C
Fluoranthene	101	(60 - 119)			SW846 8270C
	101	(60 - 119)	0.0	(0-23)	SW846 8270C
Fluorene	91	(60 - 111)			SW846 8270C
	88	(60 - 111)	2.9	(0-24)	SW846 8270C
Hexachlorobenzene	83	(65 - 120)			SW846 8270C
	84	(65 - 120)	0.92	(0-22)	SW846 8270C
Hexachlorobutadiene	74	(51 - 110)			SW846 8270C
	74	(51 - 110)	0.13	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	45	(20 - 92)			SW846 8270C
	51	(20 - 92)	12	(0-50)	SW846 8270C
Hexachloroethane	67	(57 - 122)			SW846 8270C
	70	(57 - 122)	4.4	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	82	(56 - 124)			SW846 8270C
	83	(56 - 124)	1.5	(0-29)	SW846 8270C
Isophorone	74	(68 - 110)			SW846 8270C
	75	(68 - 110)	1.2	(0-30)	SW846 8270C
2-Methylnaphthalene	89	(62 - 110)			SW846 8270C
	90	(62 - 110)	1.3	(0-29)	SW846 8270C
2-Methylphenol	70	(58 - 115)			SW846 8270C
	74	(58 - 115)	6.5	(0-38)	SW846 8270C
Naphthalene	75	(61 - 108)			SW846 8270C
	77	(61 - 108)	2.2	(0-35)	SW846 8270C
2-Nitroaniline	75	(56 - 121)			SW846 8270C
	74	(56 - 121)	2.1	(0-25)	SW846 8270C
3-Nitroaniline	58	(42 - 104)			SW846 8270C
	60	(42 - 104)	4.1	(0-32)	SW846 8270C
4-Nitroaniline	61	(48 - 112)			SW846 8270C
	60	(48 - 112)	0.94	(0-30)	SW846 8270C
Nitrobenzene	81	(67 - 118)			SW846 8270C
	82	(67 - 118)	0.82	(0-35)	SW846 8270C
2-Nitrophenol	84	(60 - 133)			SW846 8270C
	85	(60 - 133)	1.1	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**77**	**(61 - 142)**			**SW846 8270C**
	76	**(61 - 142)**	**2.3**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	80	(56 - 121)			SW846 8270C
	83	(56 - 121)	4.1	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	94	(59 - 128)			SW846 8270C
	93	(59 - 128)	0.92	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**71**	**(60 - 117)**			**SW846 8270C**
	75	**(60 - 117)**	**4.3**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**88**	**(71 - 135)**			**SW846 8270C**
	89	**(71 - 135)**	**0.65**	**(0-37)**	**SW846 8270C**
Phenanthrene	93	(64 - 108)			SW846 8270C
	92	(64 - 108)	0.41	(0-21)	SW846 8270C
Phenol	**74**	**(55 - 123)**			**SW846 8270C**
	76	**(55 - 123)**	**2.8**	**(0-41)**	**SW846 8270C**
Pyrene	**100**	**(63 - 114)**			**SW846 8270C**
	102	**(63 - 114)**	**1.9**	**(0-27)**	**SW846 8270C**
Pyridine	61	(37 - 107)			SW846 8270C
	61	(37 - 107)	0.78	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**87**	**(63 - 113)**			**SW846 8270C**
	87	**(63 - 113)**	**0.55**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	88	(72 - 120)			SW846 8270C
	87	(72 - 120)	0.76	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	86	(69 - 122)			SW846 8270C
	87	(69 - 122)	1.8	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(36 - 98)
	61	(36 - 98)
Phenol-d5	72	(49 - 109)
	72	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	73	(57 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	88	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	87	(55 - 134)
	84	(55 - 134)
Terphenyl-d14	93	(33 - 142)
	89	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**104**	**88.2**	**ug/L**	**85**		**SW846 8270C**
	ND	**104**	**88.2**	**ug/L**	**85**	**0.0**	**SW846 8270C**
Acenaphthylene	ND	104	86.5	ug/L	83		SW846 8270C
	ND	104	88.2	ug/L	85	1.9	SW846 8270C
Aniline	ND	104	53.9	ug/L	52		SW846 8270C
	ND	104	56.5	ug/L	54	4.7	SW846 8270C
Anthracene	ND	104	93.2	ug/L	90		SW846 8270C
	ND	104	93.7	ug/L	90	0.53	SW846 8270C
Benzo(b)fluoranthene	ND	104	94.2	ug/L	91		SW846 8270C
	ND	104	93.6	ug/L	90	0.63	SW846 8270C
Benzo(k)fluoranthene	ND	104	85.2	ug/L	82		SW846 8270C
	ND	104	84.9	ug/L	82	0.35	SW846 8270C
Benzoic acid	ND	104	68.1	ug/L	65		SW846 8270C
	ND	104	70.0	ug/L	67	2.8	SW846 8270C
Benzo(ghi)perylene	ND	104	89.7	ug/L	86		SW846 8270C
	ND	104	87.9	ug/L	85	2.0	SW846 8270C
Benzo(a)pyrene	ND	104	89.5	ug/L	86		SW846 8270C
	ND	104	89.6	ug/L	86	0.11	SW846 8270C
Benzyl alcohol	ND	104	78.5	ug/L	75		SW846 8270C
	ND	104	79.1	ug/L	76	0.76	SW846 8270C
bis(2-Chloroethoxy) methane	ND	104	74.4	ug/L	72		SW846 8270C
	ND	104	74.7	ug/L	72	0.40	SW846 8270C
bis(2-Chloroethyl)-ether	ND	104	71.2	ug/L	68		SW846 8270C
	ND	104	74.8	ug/L	72	4.9	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	104	88.2	ug/L	85		SW846 8270C
	ND	104	88.6	ug/L	85	0.45	SW846 8270C
4-Bromophenyl phenyl ether	ND	104	105	ug/L	101		SW846 8270C
	ND	104	107	ug/L	103	1.9	SW846 8270C
Butyl benzyl phthalate	ND	104	81.4	ug/L	78		SW846 8270C
	ND	104	82.7	ug/L	80	1.6	SW846 8270C
Carbazole	ND	104	89.3	ug/L	86		SW846 8270C
	ND	104	89.4	ug/L	86	0.11	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	104	41.1	ug/L	40		SW846 8270C
	ND	104	45.0	ug/L	43	9.0	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**104**	**83.3**	**ug/L**	**80**		**SW846 8270C**
	ND	**104**	**85.8**	**ug/L**	**82**	**3.0**	**SW846 8270C**
2-Chloronaphthalene	ND	104	81.4	ug/L	78		SW846 8270C
	ND	104	82.3	ug/L	79	1.1	SW846 8270C
2-Chlorophenol	**ND**	**104**	**74.2**	**ug/L**	**71**		**SW846 8270C**
	ND	**104**	**76.8**	**ug/L**	**74**	**3.4**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	104	99.0	ug/L	95		SW846 8270C
	ND	104	98.5	ug/L	95	0.50	SW846 8270C
Chrysene	ND	104	96.0	ug/L	92		SW846 8270C
	ND	104	97.6	ug/L	94	1.6	SW846 8270C
Dibenz(a,h)anthracene	ND	104	87.4	ug/L	84		SW846 8270C
	ND	104	88.4	ug/L	85	1.1	SW846 8270C
Dibenzofuran	ND	104	91.7	ug/L	88		SW846 8270C
	ND	104	92.6	ug/L	89	0.97	SW846 8270C
Di-n-butyl phthalate	ND	104	86.7	ug/L	83		SW846 8270C
	ND	104	86.6	ug/L	83	0.11	SW846 8270C
1,2-Dichlorobenzene	ND	104	73.8	ug/L	71		SW846 8270C
	ND	104	77.4	ug/L	74	4.8	SW846 8270C
1,3-Dichlorobenzene	ND	104	73.0	ug/L	70		SW846 8270C
	ND	104	76.5	ug/L	74	4.7	SW846 8270C
1,4-Dichlorobenzene	**ND**	**104**	**73.5**	**ug/L**	**71**		**SW846 8270C**
	ND	**104**	**76.3**	**ug/L**	**73**	**3.7**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	104	44.4	ug/L	43		SW846 8270C
	ND	104	44.2	ug/L	42	0.45	SW846 8270C
2,4-Dichlorophenol	ND	104	87.8	ug/L	84		SW846 8270C
	ND	104	89.4	ug/L	86	1.8	SW846 8270C
Diethyl phthalate	ND	104	84.9	ug/L	82		SW846 8270C
	ND	104	84.7	ug/L	81	0.23	SW846 8270C
2,4-Dimethylphenol	ND	104	49.3	ug/L	47		SW846 8270C
	ND	104	55.4	ug/L	53	12	SW846 8270C
Dimethyl phthalate	ND	104	89.8	ug/L	86		SW846 8270C
	ND	104	89.8	ug/L	86	0.0	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	104	103	ug/L	99		SW846 8270C
	ND	104	103	ug/L	99	0.0	SW846 8270C
2,4-Dinitrophenol	ND	104	103	ug/L	99		SW846 8270C
	ND	104	100	ug/L	96	3.0	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**104**	**95.1**	**ug/L**	**91**		**SW846 8270C**
	ND	**104**	**96.7**	**ug/L**	**93**	**1.7**	**SW846 8270C**
2,6-Dinitrotoluene	ND	104	95.8	ug/L	92		SW846 8270C
	ND	104	96.0	ug/L	92	0.20	SW846 8270C
Di-n-octyl phthalate	ND	104	81.8	ug/L	79		SW846 8270C
	ND	104	79.5	ug/L	76	2.8	SW846 8270C
1,2-Diphenylhydrazine	ND	104	80.1	ug/L	77		SW846 8270C
	ND	104	80.5	ug/L	77	0.49	SW846 8270C
Fluoranthene	ND	104	105	ug/L	101		SW846 8270C
	ND	104	105	ug/L	101	0.0	SW846 8270C
Fluorene	ND	104	94.2	ug/L	91		SW846 8270C
	ND	104	91.5	ug/L	88	2.9	SW846 8270C
Hexachlorobenzene	ND	104	86.6	ug/L	83		SW846 8270C
	ND	104	87.4	ug/L	84	0.92	SW846 8270C
Hexachlorobutadiene	ND	104	76.6	ug/L	74		SW846 8270C
	ND	104	76.5	ug/L	74	0.13	SW846 8270C
Hexachlorocyclopenta-diene	ND	104	47.0	ug/L	45		SW846 8270C
	ND	104	53.0	ug/L	51	12	SW846 8270C
Hexachloroethane	ND	104	69.2	ug/L	67		SW846 8270C
	ND	104	72.3	ug/L	70	4.4	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	104	85.4	ug/L	82		SW846 8270C
	ND	104	86.7	ug/L	83	1.5	SW846 8270C
Isophorone	ND	104	76.7	ug/L	74		SW846 8270C
	ND	104	77.6	ug/L	75	1.2	SW846 8270C
2-Methylnaphthalene	ND	104	92.1	ug/L	89		SW846 8270C
	ND	104	93.3	ug/L	90	1.3	SW846 8270C
2-Methylphenol	ND	104	72.4	ug/L	70		SW846 8270C
	ND	104	77.3	ug/L	74	6.5	SW846 8270C
Naphthalene	ND	104	78.0	ug/L	75		SW846 8270C
	ND	104	79.7	ug/L	77	2.2	SW846 8270C
2-Nitroaniline	ND	104	78.1	ug/L	75		SW846 8270C
	ND	104	76.5	ug/L	74	2.1	SW846 8270C
3-Nitroaniline	ND	104	60.0	ug/L	58		SW846 8270C
	ND	104	62.5	ug/L	60	4.1	SW846 8270C
4-Nitroaniline	ND	104	63.5	ug/L	61		SW846 8270C
	ND	104	62.9	ug/L	60	0.94	SW846 8270C
Nitrobenzene	ND	104	84.1	ug/L	81		SW846 8270C
	ND	104	84.8	ug/L	82	0.82	SW846 8270C
2-Nitrophenol	ND	104	87.0	ug/L	84		SW846 8270C
	ND	104	88.0	ug/L	85	1.1	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**104**	**80.5**	**ug/L**	**77**		**SW846 8270C**
	ND	**104**	**78.7**	**ug/L**	**76**	**2.3**	**SW846 8270C**
N-Nitrosodimethylamine	ND	104	83.2	ug/L	80		SW846 8270C
	ND	104	86.7	ug/L	83	4.1	SW846 8270C
N-Nitrosodiphenylamine	ND	104	97.5	ug/L	94		SW846 8270C
	ND	104	96.6	ug/L	93	0.92	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**104**	**74.3**	**ug/L**	**71**		**SW846 8270C**
	ND	**104**	**77.6**	**ug/L**	**75**	**4.3**	**SW846 8270C**
Pentachlorophenol	**ND**	**104**	**91.7**	**ug/L**	**88**		**SW846 8270C**
	ND	**104**	**92.3**	**ug/L**	**89**	**0.65**	**SW846 8270C**
Phenanthrene	ND	104	96.4	ug/L	93		SW846 8270C
	ND	104	96.0	ug/L	92	0.41	SW846 8270C
Phenol	**ND**	**104**	**76.5**	**ug/L**	**74**		**SW846 8270C**
	ND	**104**	**78.7**	**ug/L**	**76**	**2.8**	**SW846 8270C**
Pyrene	**ND**	**104**	**104**	**ug/L**	**100**		**SW846 8270C**
	ND	**104**	**106**	**ug/L**	**102**	**1.9**	**SW846 8270C**
Pyridine	ND	104	63.9	ug/L	61		SW846 8270C
	ND	104	63.4	ug/L	61	0.78	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**104**	**90.3**	**ug/L**	**87**		**SW846 8270C**
	ND	**104**	**90.8**	**ug/L**	**87**	**0.55**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	104	91.4	ug/L	88		SW846 8270C
	ND	104	90.7	ug/L	87	0.76	SW846 8270C
2,4,6-Trichloro-phenol	ND	104	89.3	ug/L	86		SW846 8270C
	ND	104	90.9	ug/L	87	1.8	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(36 - 98)
	61	(36 - 98)
Phenol-d5	72	(49 - 109)
	72	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	73	(57 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	88	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	87	(55 - 134)
	84	(55 - 134)
Terphenyl-d14	93	(33 - 142)
	89	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**86**	**(65 - 107)**			**SW846 8270C**
	92	**(65 - 107)**	**6.2**	**(0-26)**	**SW846 8270C**
Acenaphthylene	86	(62 - 108)			SW846 8270C
	90	(62 - 108)	4.8	(0-30)	SW846 8270C
Aniline	67	(25 - 105)			SW846 8270C
	49	(25 - 105)	31	(0-39)	SW846 8270C
Anthracene	90	(64 - 115)			SW846 8270C
	93	(64 - 115)	3.0	(0-21)	SW846 8270C
Benzo(b)fluoranthene	74	(53 - 127)			SW846 8270C
	92	(53 - 127)	22	(0-45)	SW846 8270C
Benzo(k)fluoranthene	97	(55 - 121)			SW846 8270C
	86	(55 - 121)	13	(0-48)	SW846 8270C
Benzoic acid	4.0 a	(20 - 141)			SW846 8270C
	76 p	(20 - 141)	180	(0-49)	SW846 8270C
Benzo(ghi)perylene	84	(56 - 123)			SW846 8270C
	89	(56 - 123)	5.7	(0-31)	SW846 8270C
Benzo(a)pyrene	87	(56 - 112)			SW846 8270C
	90	(56 - 112)	2.5	(0-32)	SW846 8270C
Benzyl alcohol	82	(68 - 122)			SW846 8270C
	86	(68 - 122)	4.5	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	77	(64 - 108)			SW846 8270C
	81	(64 - 108)	4.9	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	74	(63 - 113)			SW846 8270C
	75	(63 - 113)	2.0	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	80	(62 - 138)			SW846 8270C
	86	(62 - 138)	7.2	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	102	(78 - 136)			SW846 8270C
	105	(78 - 136)	2.9	(0-23)	SW846 8270C
Butyl benzyl phthalate	76	(67 - 123)			SW846 8270C
	82	(67 - 123)	7.7	(0-27)	SW846 8270C
Carbazole	88	(62 - 109)			SW846 8270C
	90	(62 - 109)	2.1	(0-21)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	66	(24 - 90)			SW846 8270C
	55	(24 - 90)	18	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**79**	**(66 - 130)**			**SW846 8270C**
	89	**(66 - 130)**	**11**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	83	(70 - 109)			SW846 8270C
	87	(70 - 109)	4.6	(0-28)	SW846 8270C
2-Chlorophenol	**70**	**(59 - 118)**			**SW846 8270C**
	80	**(59 - 118)**	**13**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	95	(71 - 114)			SW846 8270C
	101	(71 - 114)	5.7	(0-23)	SW846 8270C
Chrysene	92	(62 - 114)			SW846 8270C
	97	(62 - 114)	4.7	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	82	(61 - 129)			SW846 8270C
	86	(61 - 129)	4.2	(0-28)	SW846 8270C
Dibenzofuran	90	(70 - 111)			SW846 8270C
	94	(70 - 111)	4.2	(0-25)	SW846 8270C
Di-n-butyl phthalate	82	(67 - 126)			SW846 8270C
	85	(67 - 126)	3.4	(0-20)	SW846 8270C
1,2-Dichlorobenzene	76	(58 - 114)			SW846 8270C
	80	(58 - 114)	4.5	(0-35)	SW846 8270C
1,3-Dichlorobenzene	75	(57 - 112)			SW846 8270C
	79	(57 - 112)	4.8	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**76**	**(58 - 113)**			**SW846 8270C**
	80	**(58 - 113)**	**5.6**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	64	(20 - 100)			SW846 8270C
	60	(20 - 100)	7.3	(0-50)	SW846 8270C
2,4-Dichlorophenol	80	(65 - 121)			SW846 8270C
	96	(65 - 121)	18	(0-36)	SW846 8270C
Diethyl phthalate	80	(60 - 116)			SW846 8270C
	85	(60 - 116)	6.4	(0-21)	SW846 8270C
2,4-Dimethylphenol	55	(30 - 107)			SW846 8270C
	57	(30 - 107)	3.4	(0-41)	SW846 8270C
Dimethyl phthalate	84	(68 - 114)			SW846 8270C
	89	(68 - 114)	5.3	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	2.4 a	(66 - 147)			SW846 8270C
	100 p	(66 - 147)	191	(0-44)	SW846 8270C
2,4-Dinitrophenol	0.0	(30 - 150)			SW846 8270C
	98 p	(30 - 150)	200	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**90**	**(69 - 131)**			**SW846 8270C**
	96	**(69 - 131)**	**6.0**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	91	(71 - 142)			SW846 8270C
	97	(71 - 142)	6.0	(0-30)	SW846 8270C
Di-n-octyl phthalate	77	(67 - 127)			SW846 8270C
	83	(67 - 127)	7.4	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	78	(61 - 111)			SW846 8270C
	83	(61 - 111)	6.1	(0-32)	SW846 8270C
Fluoranthene	98	(60 - 119)			SW846 8270C
	104	(60 - 119)	5.5	(0-23)	SW846 8270C
Fluorene	88	(60 - 111)			SW846 8270C
	93	(60 - 111)	5.3	(0-24)	SW846 8270C
Hexachlorobenzene	85	(65 - 120)			SW846 8270C
	90	(65 - 120)	5.5	(0-22)	SW846 8270C
Hexachlorobutadiene	80	(51 - 110)			SW846 8270C
	80	(51 - 110)	0.50	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	51	(20 - 92)			SW846 8270C
	54	(20 - 92)	5.2	(0-50)	SW846 8270C
Hexachloroethane	71	(57 - 122)			SW846 8270C
	75	(57 - 122)	5.1	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	81	(56 - 124)			SW846 8270C
	84	(56 - 124)	3.3	(0-29)	SW846 8270C
Isophorone	79	(68 - 110)			SW846 8270C
	84	(68 - 110)	6.9	(0-30)	SW846 8270C
2-Methylnaphthalene	95	(62 - 110)			SW846 8270C
	101	(62 - 110)	5.9	(0-29)	SW846 8270C
2-Methylphenol	76	(58 - 115)			SW846 8270C
	80	(58 - 115)	4.2	(0-38)	SW846 8270C
Naphthalene	82	(61 - 108)			SW846 8270C
	86	(61 - 108)	4.6	(0-35)	SW846 8270C
2-Nitroaniline	75	(56 - 121)			SW846 8270C
	79	(56 - 121)	4.6	(0-25)	SW846 8270C
3-Nitroaniline	74	(42 - 104)			SW846 8270C
	70	(42 - 104)	5.4	(0-32)	SW846 8270C
4-Nitroaniline	75	(48 - 112)			SW846 8270C
	76	(48 - 112)	0.92	(0-30)	SW846 8270C
Nitrobenzene	83	(67 - 118)			SW846 8270C
	87	(67 - 118)	5.2	(0-35)	SW846 8270C
2-Nitrophenol	12 a	(60 - 133)			SW846 8270C
	94 p	(60 - 133)	156	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**2.6 a**	**(61 - 142)**			**SW846 8270C**
	76 p	**(61 - 142)**	**187**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	85	(56 - 121)			SW846 8270C
	89	(56 - 121)	4.8	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	93	(59 - 128)			SW846 8270C
	95	(59 - 128)	1.9	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**76**	**(60 - 117)**			**SW846 8270C**
	80	**(60 - 117)**	**4.9**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**11 a**	**(71 - 135)**			**SW846 8270C**
	93 p	**(71 - 135)**	**156**	**(0-37)**	**SW846 8270C**
Phenanthrene	92	(64 - 108)			SW846 8270C
	94	(64 - 108)	3.0	(0-21)	SW846 8270C
Phenol	**76**	**(55 - 123)**			**SW846 8270C**
	81	**(55 - 123)**	**6.1**	**(0-41)**	**SW846 8270C**
Pyrene	**100**	**(63 - 114)**			**SW846 8270C**
	105	**(63 - 114)**	**4.9**	**(0-27)**	**SW846 8270C**
Pyridine	72	(37 - 107)			SW846 8270C
	56	(37 - 107)	24	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**94**	**(63 - 113)**			**SW846 8270C**
	99	**(63 - 113)**	**5.4**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	58 a	(72 - 120)			SW846 8270C
	92 p	(72 - 120)	45	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	45 a	(69 - 122)			SW846 8270C
	92 p	(69 - 122)	68	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(36 - 98)
	64	(36 - 98)
Phenol-d5	73	(49 - 109)
	76	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	81	(57 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	91	(56 - 118)
	93	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
	88	(55 - 134)
Terphenyl-d14	89	(33 - 142)
	92	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**1000**	**860**	**ug/L**	**86**		**SW846 8270C**
	ND	**1000**	**915**	**ug/L**	**92**	**6.2**	**SW846 8270C**
Acenaphthylene	ND	1000	860	ug/L	86		SW846 8270C
	ND	1000	902	ug/L	90	4.8	SW846 8270C
Aniline	ND	1000	674	ug/L	67		SW846 8270C
	ND	1000	493	ug/L	49	31	SW846 8270C
Anthracene	ND	1000	901	ug/L	90		SW846 8270C
	ND	1000	928	ug/L	93	3.0	SW846 8270C
Benzo(b)fluoranthene	ND	1000	737	ug/L	74		SW846 8270C
	ND	1000	921	ug/L	92	22	SW846 8270C
Benzo(k)fluoranthene	ND	1000	972	ug/L	97		SW846 8270C
	ND	1000	857	ug/L	86	13	SW846 8270C
Benzoic acid	ND	1000		ug/L	4.0 a		SW846 8270C
	ND	1000	755	ug/L	76 p	180	SW846 8270C
Benzo(ghi)perylene	ND	1000	838	ug/L	84		SW846 8270C
	ND	1000	887	ug/L	89	5.7	SW846 8270C
Benzo(a)pyrene	ND	1000	874	ug/L	87		SW846 8270C
	ND	1000	896	ug/L	90	2.5	SW846 8270C
Benzyl alcohol	ND	1000	817	ug/L	82		SW846 8270C
	ND	1000	855	ug/L	86	4.5	SW846 8270C
bis(2-Chloroethoxy) methane	ND	1000	773	ug/L	77		SW846 8270C
	ND	1000	812	ug/L	81	4.9	SW846 8270C
bis(2-Chloroethyl)-ether	ND	1000	738	ug/L	74		SW846 8270C
	ND	1000	753	ug/L	75	2.0	SW846 8270C
bis(2-Ethylhexyl) phthalate	41	1000	836	ug/L	80		SW846 8270C
	41	1000	898	ug/L	86	7.2	SW846 8270C
4-Bromophenyl phenyl ether	ND	1000	1020	ug/L	102		SW846 8270C
	ND	1000	1050	ug/L	105	2.9	SW846 8270C
Butyl benzyl phthalate	ND	1000	762	ug/L	76		SW846 8270C
	ND	1000	823	ug/L	82	7.7	SW846 8270C
Carbazole	ND	1000	876	ug/L	88		SW846 8270C
	ND	1000	895	ug/L	90	2.1	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	1000	658	ug/L	66		SW846 8270C
	ND	1000	547	ug/L	55	18	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**1000**	**793**	**ug/L**	**79**		**SW846 8270C**
	ND	**1000**	**887**	**ug/L**	**89**	**11**	**SW846 8270C**
2-Chloronaphthalene	ND	1000	830	ug/L	83		SW846 8270C
	ND	1000	869	ug/L	87	4.6	SW846 8270C
2-Chlorophenol	**ND**	**1000**	**699**	**ug/L**	**70**		**SW846 8270C**
	ND	**1000**	**800**	**ug/L**	**80**	**13**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	1000	954	ug/L	95		SW846 8270C
	ND	1000	1010	ug/L	101	5.7	SW846 8270C
Chrysene	ND	1000	922	ug/L	92		SW846 8270C
	ND	1000	966	ug/L	97	4.7	SW846 8270C
Dibenz(a,h)anthracene	ND	1000	823	ug/L	82		SW846 8270C
	ND	1000	858	ug/L	86	4.2	SW846 8270C
Dibenzofuran	ND	1000	897	ug/L	90		SW846 8270C
	ND	1000	936	ug/L	94	4.2	SW846 8270C
Di-n-butyl phthalate	ND	1000	824	ug/L	82		SW846 8270C
	ND	1000	853	ug/L	85	3.4	SW846 8270C
1,2-Dichlorobenzene	ND	1000	760	ug/L	76		SW846 8270C
	ND	1000	795	ug/L	80	4.5	SW846 8270C
1,3-Dichlorobenzene	ND	1000	750	ug/L	75		SW846 8270C
	ND	1000	787	ug/L	79	4.8	SW846 8270C
1,4-Dichlorobenzene	**ND**	**1000**	**756**	**ug/L**	**76**		**SW846 8270C**
	ND	**1000**	**800**	**ug/L**	**80**	**5.6**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	1000	640	ug/L	64		SW846 8270C
	ND	1000	595	ug/L	60	7.3	SW846 8270C
2,4-Dichlorophenol	ND	1000	796	ug/L	80		SW846 8270C
	ND	1000	958	ug/L	96	18	SW846 8270C
Diethyl phthalate	ND	1000	795	ug/L	80		SW846 8270C
	ND	1000	848	ug/L	85	6.4	SW846 8270C
2,4-Dimethylphenol	ND	1000	548	ug/L	55		SW846 8270C
	ND	1000	567	ug/L	57	3.4	SW846 8270C
Dimethyl phthalate	ND	1000	844	ug/L	84		SW846 8270C
	ND	1000	890	ug/L	89	5.3	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1000		ug/L	2.4 a		SW846 8270C
	ND	1000	1000	ug/L	100 p	191	SW846 8270C
2,4-Dinitrophenol	ND	1000		ug/L	0.0		SW846 8270C
	ND	1000	982	ug/L	98 p	200	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**1000**	**905**	**ug/L**	**90**		**SW846 8270C**
	ND	**1000**	**961**	**ug/L**	**96**	**6.0**	**SW846 8270C**
2,6-Dinitrotoluene	ND	1000	911	ug/L	91		SW846 8270C
	ND	1000	967	ug/L	97	6.0	SW846 8270C
Di-n-octyl phthalate	ND	1000	768	ug/L	77		SW846 8270C
	ND	1000	827	ug/L	83	7.4	SW846 8270C
1,2-Diphenylhydrazine	ND	1000	779	ug/L	78		SW846 8270C
	ND	1000	828	ug/L	83	6.1	SW846 8270C
Fluoranthene	ND	1000	984	ug/L	98		SW846 8270C
	ND	1000	1040	ug/L	104	5.5	SW846 8270C
Fluorene	ND	1000	884	ug/L	88		SW846 8270C
	ND	1000	932	ug/L	93	5.3	SW846 8270C
Hexachlorobenzene	ND	1000	849	ug/L	85		SW846 8270C
	ND	1000	897	ug/L	90	5.5	SW846 8270C
Hexachlorobutadiene	ND	1000	798	ug/L	80		SW846 8270C
	ND	1000	802	ug/L	80	0.50	SW846 8270C
Hexachlorocyclopenta-diene	ND	1000	510	ug/L	51		SW846 8270C
	ND	1000	537	ug/L	54	5.2	SW846 8270C
Hexachloroethane	ND	1000	709	ug/L	71		SW846 8270C
	ND	1000	746	ug/L	75	5.1	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	1000	811	ug/L	81		SW846 8270C
	ND	1000	838	ug/L	84	3.3	SW846 8270C
Isophorone	ND	1000	786	ug/L	79		SW846 8270C
	ND	1000	842	ug/L	84	6.9	SW846 8270C
2-Methylnaphthalene	ND	1000	952	ug/L	95		SW846 8270C
	ND	1000	1010	ug/L	101	5.9	SW846 8270C
2-Methylphenol	ND	1000	762	ug/L	76		SW846 8270C
	ND	1000	795	ug/L	80	4.2	SW846 8270C
Naphthalene	ND	1000	819	ug/L	82		SW846 8270C
	ND	1000	858	ug/L	86	4.6	SW846 8270C
2-Nitroaniline	ND	1000	751	ug/L	75		SW846 8270C
	ND	1000	786	ug/L	79	4.6	SW846 8270C
3-Nitroaniline	ND	1000	743	ug/L	74		SW846 8270C
	ND	1000	704	ug/L	70	5.4	SW846 8270C
4-Nitroaniline	ND	1000	753	ug/L	75		SW846 8270C
	ND	1000	760	ug/L	76	0.92	SW846 8270C
Nitrobenzene	ND	1000	830	ug/L	83		SW846 8270C
	ND	1000	874	ug/L	87	5.2	SW846 8270C
2-Nitrophenol	ND	1000	115	ug/L	12 a		SW846 8270C
	ND	1000	935	ug/L	94 p	156	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**1000**		**ug/L**	**2.6 a**		**SW846 8270C**
	ND	**1000**	**762**	**ug/L**	**76 p**	**187**	**SW846 8270C**
N-Nitrosodimethylamine	ND	1000	846	ug/L	85		SW846 8270C
	ND	1000	888	ug/L	89	4.8	SW846 8270C
N-Nitrosodiphenylamine	ND	1000	933	ug/L	93		SW846 8270C
	ND	1000	951	ug/L	95	1.9	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**1000**	**759**	**ug/L**	**76**		**SW846 8270C**
	ND	**1000**	**797**	**ug/L**	**80**	**4.9**	**SW846 8270C**
Pentachlorophenol	**ND**	**1000**	**114**	**ug/L**	**11 a**		**SW846 8270C**
	ND	**1000**	**926**	**ug/L**	**93 p**	**156**	**SW846 8270C**
Phenanthrene	ND	1000	917	ug/L	92		SW846 8270C
	ND	1000	945	ug/L	94	3.0	SW846 8270C
Phenol	**ND**	**1000**	**763**	**ug/L**	**76**		**SW846 8270C**
	ND	**1000**	**811**	**ug/L**	**81**	**6.1**	**SW846 8270C**
Pyrene	**ND**	**1000**	**1000**	**ug/L**	**100**		**SW846 8270C**
	ND	**1000**	**1050**	**ug/L**	**105**	**4.9**	**SW846 8270C**
Pyridine	ND	1000	720	ug/L	72		SW846 8270C
	ND	1000	564	ug/L	56	24	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**1000**	**938**	**ug/L**	**94**		**SW846 8270C**
	ND	**1000**	**990**	**ug/L**	**99**	**5.4**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	1000	580	ug/L	58 a		SW846 8270C
	ND	1000	921	ug/L	92 p	45	SW846 8270C
2,4,6-Trichloro-phenol	ND	1000	453	ug/L	45 a		SW846 8270C
	ND	1000	915	ug/L	92 p	68	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(36 - 98)
	64	(36 - 98)
Phenol-d5	73	(49 - 109)
	76	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	81	(57 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	91	(56 - 118)
	93	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
	88	(55 - 134)
Terphenyl-d14	89	(33 - 142)
	92	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**90**	**(65 - 107)**			**SW846 8270C**
	81	**(65 - 107)**	**9.7**	**(0-26)**	**SW846 8270C**
Acenaphthylene	90	(62 - 108)			SW846 8270C
	75	(62 - 108)	18	(0-30)	SW846 8270C
Aniline	61	(25 - 105)			SW846 8270C
	39 p	(25 - 105)	43	(0-39)	SW846 8270C
Anthracene	90	(64 - 115)			SW846 8270C
	82	(64 - 115)	9.4	(0-21)	SW846 8270C
Benzo(b)fluoranthene	79	(53 - 127)			SW846 8270C
	71	(53 - 127)	11	(0-45)	SW846 8270C
Benzo(k)fluoranthene	97	(55 - 121)			SW846 8270C
	89	(55 - 121)	9.3	(0-48)	SW846 8270C
Benzoic acid	62	(20 - 141)			SW846 8270C
	55	(20 - 141)	11	(0-49)	SW846 8270C
Benzo(ghi)perylene	88	(56 - 123)			SW846 8270C
	80	(56 - 123)	9.7	(0-31)	SW846 8270C
Benzo(a)pyrene	88	(56 - 112)			SW846 8270C
	77	(56 - 112)	14	(0-32)	SW846 8270C
Benzyl alcohol	83	(68 - 122)			SW846 8270C
	72	(68 - 122)	13	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	78	(64 - 108)			SW846 8270C
	71	(64 - 108)	9.0	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	75	(63 - 113)			SW846 8270C
	68	(63 - 113)	11	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	84	(62 - 138)			SW846 8270C
	78	(62 - 138)	6.7	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	105	(78 - 136)			SW846 8270C
	97	(78 - 136)	8.0	(0-23)	SW846 8270C
Butyl benzyl phthalate	79	(67 - 123)			SW846 8270C
	74	(67 - 123)	6.7	(0-27)	SW846 8270C
Carbazole	85	(62 - 109)			SW846 8270C
	74	(62 - 109)	14	(0-21)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	56	(24 - 90)			SW846 8270C
	44	(24 - 90)	24	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**83**	**(66 - 130)**			**SW846 8270C**
	73	**(66 - 130)**	**13**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	86	(70 - 109)			SW846 8270C
	80	(70 - 109)	7.6	(0-28)	SW846 8270C
2-Chlorophenol	**77**	**(59 - 118)**			**SW846 8270C**
	66	**(59 - 118)**	**15**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	102	(71 - 114)			SW846 8270C
	94	(71 - 114)	8.3	(0-23)	SW846 8270C
Chrysene	95	(62 - 114)			SW846 8270C
	89	(62 - 114)	6.2	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	86	(61 - 129)			SW846 8270C
	78	(61 - 129)	9.2	(0-28)	SW846 8270C
Dibenzofuran	94	(70 - 111)			SW846 8270C
	86	(70 - 111)	8.9	(0-25)	SW846 8270C
Di-n-butyl phthalate	83	(67 - 126)			SW846 8270C
	78	(67 - 126)	6.4	(0-20)	SW846 8270C
1,2-Dichlorobenzene	78	(58 - 114)			SW846 8270C
	71	(58 - 114)	8.7	(0-35)	SW846 8270C
1,3-Dichlorobenzene	79	(57 - 112)			SW846 8270C
	73	(57 - 112)	8.6	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**79**	**(58 - 113)**			**SW846 8270C**
	72	**(58 - 113)**	**8.6**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	57	(20 - 100)			SW846 8270C
	38	(20 - 100)	40	(0-50)	SW846 8270C
2,4-Dichlorophenol	92	(65 - 121)			SW846 8270C
	83	(65 - 121)	9.8	(0-36)	SW846 8270C
Diethyl phthalate	84	(60 - 116)			SW846 8270C
	76	(60 - 116)	10	(0-21)	SW846 8270C
2,4-Dimethylphenol	49	(30 - 107)			SW846 8270C
	45	(30 - 107)	9.2	(0-41)	SW846 8270C
Dimethyl phthalate	89	(68 - 114)			SW846 8270C
	81	(68 - 114)	9.8	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	99	(66 - 147)			SW846 8270C
	92	(66 - 147)	7.5	(0-44)	SW846 8270C
2,4-Dinitrophenol	95	(30 - 150)			SW846 8270C
	89	(30 - 150)	6.7	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**93**	**(69 - 131)**			**SW846 8270C**
	89	**(69 - 131)**	**4.7**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	95	(71 - 142)			SW846 8270C
	87	(71 - 142)	8.9	(0-30)	SW846 8270C
Di-n-octyl phthalate	79	(67 - 127)			SW846 8270C
	72	(67 - 127)	9.9	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	79	(61 - 111)			SW846 8270C
	72	(61 - 111)	8.9	(0-32)	SW846 8270C
Fluoranthene	102	(60 - 119)			SW846 8270C
	95	(60 - 119)	6.4	(0-23)	SW846 8270C
Fluorene	93	(60 - 111)			SW846 8270C
	85	(60 - 111)	9.0	(0-24)	SW846 8270C
Hexachlorobenzene	87	(65 - 120)			SW846 8270C
	78	(65 - 120)	11	(0-22)	SW846 8270C
Hexachlorobutadiene	81	(51 - 110)			SW846 8270C
	72	(51 - 110)	11	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	53	(20 - 92)			SW846 8270C
	58	(20 - 92)	9.5	(0-50)	SW846 8270C
Hexachloroethane	73	(57 - 122)			SW846 8270C
	68	(57 - 122)	6.5	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	84	(56 - 124)			SW846 8270C
	76	(56 - 124)	9.8	(0-29)	SW846 8270C
Isophorone	80	(68 - 110)			SW846 8270C
	73	(68 - 110)	9.9	(0-30)	SW846 8270C
2-Methylnaphthalene	96	(62 - 110)			SW846 8270C
	87	(62 - 110)	10	(0-29)	SW846 8270C
2-Methylphenol	77	(58 - 115)			SW846 8270C
	61	(58 - 115)	24	(0-38)	SW846 8270C
Naphthalene	82	(61 - 108)			SW846 8270C
	73	(61 - 108)	12	(0-35)	SW846 8270C
2-Nitroaniline	78	(56 - 121)			SW846 8270C
	67	(56 - 121)	15	(0-25)	SW846 8270C
3-Nitroaniline	70	(42 - 104)			SW846 8270C
	60	(42 - 104)	15	(0-32)	SW846 8270C
4-Nitroaniline	74	(48 - 112)			SW846 8270C
	63	(48 - 112)	17	(0-30)	SW846 8270C
Nitrobenzene	81	(67 - 118)			SW846 8270C
	74	(67 - 118)	8.4	(0-35)	SW846 8270C
2-Nitrophenol	90	(60 - 133)			SW846 8270C
	83	(60 - 133)	8.3	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**75**	**(61 - 142)**			**SW846 8270C**
	69	**(61 - 142)**	**8.3**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	86	(56 - 121)			SW846 8270C
	82	(56 - 121)	5.8	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	93	(59 - 128)			SW846 8270C
	74	(59 - 128)	22	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**79**	**(60 - 117)**			**SW846 8270C**
	73	**(60 - 117)**	**8.3**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**88**	**(71 - 135)**			**SW846 8270C**
	81	**(71 - 135)**	**7.6**	**(0-37)**	**SW846 8270C**
Phenanthrene	92	(64 - 108)			SW846 8270C
	86	(64 - 108)	6.3	(0-21)	SW846 8270C
Phenol	**79**	**(55 - 123)**			**SW846 8270C**
	62	**(55 - 123)**	**24**	**(0-41)**	**SW846 8270C**
Pyrene	**102**	**(63 - 114)**			**SW846 8270C**
	95	**(63 - 114)**	**7.3**	**(0-27)**	**SW846 8270C**
Pyridine	73	(37 - 107)			SW846 8270C
	70	(37 - 107)	5.0	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**95**	**(63 - 113)**			**SW846 8270C**
	86	**(63 - 113)**	**10**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	93	(72 - 120)			SW846 8270C
	84	(72 - 120)	10	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	92	(69 - 122)			SW846 8270C
	85	(69 - 122)	8.2	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(36 - 98)
	49	(36 - 98)
Phenol-d5	76	(49 - 109)
	38 *	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	71	(57 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	96	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	89	(55 - 134)
	82	(55 - 134)
Terphenyl-d14	92	(33 - 142)
	83	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**111**	**99.5**	**ug/L**	**90**		**SW846 8270C**
	ND	**111**	**90.3**	**ug/L**	**81**	**9.7**	**SW846 8270C**
Acenaphthylene	ND	111	100	ug/L	90		SW846 8270C
	ND	111	83.6	ug/L	75	18	SW846 8270C
Aniline	ND	111	67.6	ug/L	61		SW846 8270C
	ND	111	43.8	ug/L	39 p	43	SW846 8270C
Anthracene	ND	111	100	ug/L	90		SW846 8270C
	ND	111	91.0	ug/L	82	9.4	SW846 8270C
Benzo(b)fluoranthene	ND	111	87.6	ug/L	79		SW846 8270C
	ND	111	78.7	ug/L	71	11	SW846 8270C
Benzo(k)fluoranthene	ND	111	108	ug/L	97		SW846 8270C
	ND	111	98.4	ug/L	89	9.3	SW846 8270C
Benzoic acid	ND	111	68.3	ug/L	62		SW846 8270C
	ND	111	61.3	ug/L	55	11	SW846 8270C
Benzo(ghi)perylene	ND	111	97.6	ug/L	88		SW846 8270C
	ND	111	88.6	ug/L	80	9.7	SW846 8270C
Benzo(a)pyrene	ND	111	98.1	ug/L	88		SW846 8270C
	ND	111	85.5	ug/L	77	14	SW846 8270C
Benzyl alcohol	ND	111	91.7	ug/L	83		SW846 8270C
	ND	111	80.3	ug/L	72	13	SW846 8270C
bis(2-Chloroethoxy) methane	ND	111	86.8	ug/L	78		SW846 8270C
	ND	111	79.3	ug/L	71	9.0	SW846 8270C
bis(2-Chloroethyl)-ether	ND	111	83.8	ug/L	75		SW846 8270C
	ND	111	75.3	ug/L	68	11	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	111	93.8	ug/L	84		SW846 8270C
	ND	111	87.7	ug/L	78	6.7	SW846 8270C
4-Bromophenyl phenyl ether	ND	111	117	ug/L	105		SW846 8270C
	ND	111	108	ug/L	97	8.0	SW846 8270C
Butyl benzyl phthalate	ND	111	87.7	ug/L	79		SW846 8270C
	ND	111	82.0	ug/L	74	6.7	SW846 8270C
Carbazole	ND	111	93.9	ug/L	85		SW846 8270C
	ND	111	81.8	ug/L	74	14	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	111	61.9	ug/L	56		SW846 8270C
	ND	111	48.6	ug/L	44	24	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**111**	**91.8**	**ug/L**	**83**		**SW846 8270C**
	ND	**111**	**80.8**	**ug/L**	**73**	**13**	**SW846 8270C**
2-Chloronaphthalene	ND	111	95.9	ug/L	86		SW846 8270C
	ND	111	88.9	ug/L	80	7.6	SW846 8270C
2-Chlorophenol	**ND**	**111**	**85.0**	**ug/L**	**77**		**SW846 8270C**
	ND	**111**	**73.3**	**ug/L**	**66**	**15**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	111	113	ug/L	102		SW846 8270C
	ND	111	104	ug/L	94	8.3	SW846 8270C
Chrysene	ND	111	105	ug/L	95		SW846 8270C
	ND	111	98.7	ug/L	89	6.2	SW846 8270C
Dibenz(a,h)anthracene	ND	111	95.0	ug/L	86		SW846 8270C
	ND	111	86.6	ug/L	78	9.2	SW846 8270C
Dibenzofuran	ND	111	104	ug/L	94		SW846 8270C
	ND	111	95.1	ug/L	86	8.9	SW846 8270C
Di-n-butyl phthalate	ND	111	92.4	ug/L	83		SW846 8270C
	ND	111	86.7	ug/L	78	6.4	SW846 8270C
1,2-Dichlorobenzene	ND	111	86.4	ug/L	78		SW846 8270C
	ND	111	79.2	ug/L	71	8.7	SW846 8270C
1,3-Dichlorobenzene	ND	111	87.7	ug/L	79		SW846 8270C
	ND	111	80.5	ug/L	73	8.6	SW846 8270C
1,4-Dichlorobenzene	**ND**	**111**	**87.2**	**ug/L**	**79**		**SW846 8270C**
	ND	**111**	**80.0**	**ug/L**	**72**	**8.6**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	111	63.4	ug/L	57		SW846 8270C
	ND	111	42.2	ug/L	38	40	SW846 8270C
2,4-Dichlorophenol	ND	111	102	ug/L	92		SW846 8270C
	ND	111	92.5	ug/L	83	9.8	SW846 8270C
Diethyl phthalate	ND	111	93.4	ug/L	84		SW846 8270C
	ND	111	84.5	ug/L	76	10	SW846 8270C
2,4-Dimethylphenol	ND	111	54.4	ug/L	49		SW846 8270C
	ND	111	49.6	ug/L	45	9.2	SW846 8270C
Dimethyl phthalate	ND	111	99.0	ug/L	89		SW846 8270C
	ND	111	89.7	ug/L	81	9.8	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	111	110	ug/L	99		SW846 8270C
	ND	111	102	ug/L	92	7.5	SW846 8270C
2,4-Dinitrophenol	ND	111	106	ug/L	95		SW846 8270C
	ND	111	99.1	ug/L	89	6.7	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**111**	**103**	**ug/L**	**93**		**SW846 8270C**
	ND	**111**	**98.3**	**ug/L**	**89**	**4.7**	**SW846 8270C**
2,6-Dinitrotoluene	ND	111	106	ug/L	95		SW846 8270C
	ND	111	97.0	ug/L	87	8.9	SW846 8270C
Di-n-octyl phthalate	ND	111	87.9	ug/L	79		SW846 8270C
	ND	111	79.6	ug/L	72	9.9	SW846 8270C
1,2-Diphenylhydrazine	ND	111	87.2	ug/L	79		SW846 8270C
	ND	111	79.8	ug/L	72	8.9	SW846 8270C
Fluoranthene	ND	111	113	ug/L	102		SW846 8270C
	ND	111	106	ug/L	95	6.4	SW846 8270C
Fluorene	ND	111	103	ug/L	93		SW846 8270C
	ND	111	94.1	ug/L	85	9.0	SW846 8270C
Hexachlorobenzene	ND	111	96.9	ug/L	87		SW846 8270C
	ND	111	86.4	ug/L	78	11	SW846 8270C
Hexachlorobutadiene	ND	111	89.5	ug/L	81		SW846 8270C
	ND	111	79.9	ug/L	72	11	SW846 8270C
Hexachlorocyclopenta-diene	ND	111	58.3	ug/L	53		SW846 8270C
	ND	111	64.1	ug/L	58	9.5	SW846 8270C
Hexachloroethane	ND	111	80.6	ug/L	73		SW846 8270C
	ND	111	75.5	ug/L	68	6.5	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	111	92.9	ug/L	84		SW846 8270C
	ND	111	84.2	ug/L	76	9.8	SW846 8270C
Isophorone	ND	111	89.1	ug/L	80		SW846 8270C
	ND	111	80.7	ug/L	73	9.9	SW846 8270C
2-Methylnaphthalene	ND	111	107	ug/L	96		SW846 8270C
	ND	111	96.4	ug/L	87	10	SW846 8270C
2-Methylphenol	ND	111	85.7	ug/L	77		SW846 8270C
	ND	111	67.2	ug/L	61	24	SW846 8270C
Naphthalene	ND	111	91.2	ug/L	82		SW846 8270C
	ND	111	80.7	ug/L	73	12	SW846 8270C
2-Nitroaniline	ND	111	86.3	ug/L	78		SW846 8270C
	ND	111	73.9	ug/L	67	15	SW846 8270C
3-Nitroaniline	ND	111	77.5	ug/L	70		SW846 8270C
	ND	111	66.6	ug/L	60	15	SW846 8270C
4-Nitroaniline	ND	111	82.4	ug/L	74		SW846 8270C
	ND	111	69.5	ug/L	63	17	SW846 8270C
Nitrobenzene	ND	111	89.7	ug/L	81		SW846 8270C
	ND	111	82.5	ug/L	74	8.4	SW846 8270C
2-Nitrophenol	ND	111	99.9	ug/L	90		SW846 8270C
	ND	111	91.9	ug/L	83	8.3	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**111**	**83.0**	**ug/L**	**75**		**SW846 8270C**
	ND	**111**	**76.4**	**ug/L**	**69**	**8.3**	**SW846 8270C**
N-Nitrosodimethylamine	ND	111	95.9	ug/L	86		SW846 8270C
	ND	111	90.5	ug/L	82	5.8	SW846 8270C
N-Nitrosodiphenylamine	ND	111	103	ug/L	93		SW846 8270C
	ND	111	82.4	ug/L	74	22	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**111**	**87.5**	**ug/L**	**79**		**SW846 8270C**
	ND	**111**	**80.5**	**ug/L**	**73**	**8.3**	**SW846 8270C**
Pentachlorophenol	**ND**	**111**	**97.4**	**ug/L**	**88**		**SW846 8270C**
	ND	**111**	**90.3**	**ug/L**	**81**	**7.6**	**SW846 8270C**
Phenanthrene	ND	111	102	ug/L	92		SW846 8270C
	ND	111	95.8	ug/L	86	6.3	SW846 8270C
Phenol	**ND**	**111**	**87.4**	**ug/L**	**79**		**SW846 8270C**
	ND	**111**	**69.0**	**ug/L**	**62**	**24**	**SW846 8270C**
Pyrene	**ND**	**111**	**113**	**ug/L**	**102**		**SW846 8270C**
	ND	**111**	**105**	**ug/L**	**95**	**7.3**	**SW846 8270C**
Pyridine	ND	111	81.2	ug/L	73		SW846 8270C
	ND	111	77.2	ug/L	70	5.0	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**111**	**106**	**ug/L**	**95**		**SW846 8270C**
	ND	**111**	**95.8**	**ug/L**	**86**	**10**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	111	103	ug/L	93		SW846 8270C
	ND	111	92.8	ug/L	84	10	SW846 8270C
2,4,6-Trichloro-phenol	ND	111	102	ug/L	92		SW846 8270C
	ND	111	94.0	ug/L	85	8.2	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(36 - 98)
	49	(36 - 98)
Phenol-d5	76	(49 - 109)
	38 *	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	71	(57 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	96	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	89	(55 - 134)
	82	(55 - 134)
Terphenyl-d14	92	(33 - 142)
	83	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #013 [Process Sample SVOCs]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030246
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:	
Semivolatile Organic Compounds (SVOCs)	14 Days from Sample Collection to Extraction. 40 Days from Extraction to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2890-R1-Spent Activated Carbon	3-28-06	MS/MSD	125 mL Powder Jar	**Spent Activated Carbon - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2894-R1-Scrubber Blowdown	3-28-06	MS/MSD	3 X 1 Liter Amber Boston Rounds	**Scrubber Blowdown - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2898-R1-POTW Discharge	3-28-06	MS/MSD	3 X 1 Liter Amber Boston Rounds	**POTW Discharge - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2902-R1-Caustic Feed	3-28-06	MS/MSD	3 X 1 Liter High Density Polyethylene Bottle	**Caustic Feed - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2906-R1-Make-Up Water	3-28-06	MS/MSD	3 X 1 Liter Amber Boston Rounds	**Make-Up Water - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2988-R2-Spent Activated Carbon	3-29-06		125 mL Powder Jar	**Spent Activated Carbon - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2992-R2-Scrubber Blowdown	3-29-06		1 Liter Amber Boston Round	**Scrubber Blowdown - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2996-R2-POTW Discharge	3-29-06		1 Liter Amber Boston Round	**POTW Discharge - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.

Request for Analysis/Chain-of-Custody – RFA/COC #013 [Process Sample SVOCs]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3000-R2-Caustic Feed	Not Sampled		1 Liter High Density Polyethylene Bottle	**Caustic Feed - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3004-R2-Make-Up Water	3-29-06		250 mL Amber Boston Round	**Make-Up Water - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3071-R3-Spent Activated Carbon	3-30-06		125 mL Powder Jar	**Spent Activated Carbon - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3075-R3-Scrubber Blowdown	3-30-06		1 Liter Amber Boston Round	**Scrubber Blowdown - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3079-R3-POTW Discharge	3-30-06		1 Liter Amber Boston Round	**POTW Discharge - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3083-R3-Caustic Feed	Did Not		1 Liter High Density Polyethylene Bottle	**Caustic Feed - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3087-R3-Make-Up Water	3-30-06		250 mL Amber Boston Round	**Make-Up Water - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.

Request for Analysis/Chain-of-Custody – RFA/COC #013 [Process Sample SVOCs]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona H6D030246

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	N/A
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	5.0 °C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	N/A

Custody Transfer:

Hand delivered

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	[signature]	STL-Knoxville	4/3/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus **Project:** WestAtes Carbon **Lot Number:** H6D030246

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14 A (COC wasn't relinquished (signed, date or time)
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present hand delivered ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?				☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4/3/06

QA026R18.doc, 1/30/06

Semi-Volatiles

Raw Sample Data

STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**570 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1300 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**200 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**26000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1900**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	1600	ug/kg	340
Dimethyl phthalate	ND	1600	ug/kg	120
1,3-Dinitrobenzene	ND	1600	ug/kg	
4,6-Dinitro-2-methylphenol	ND	8000	ug/kg	850
2,4-Dinitrophenol	ND	8000	ug/kg	800
2,4-Dinitrotoluene	ND	1600	ug/kg	340
2,6-Dinitrotoluene	ND	1600	ug/kg	340
Di-n-octyl phthalate	ND	1600	ug/kg	150
Diphenylamine	ND	1600	ug/kg	150
1,2-Diphenylhydrazine	ND	1600	ug/kg	120
Fluoranthene	**140 J**	**1600**	**ug/kg**	**130**
Fluorene	**730 J**	**1600**	**ug/kg**	**85**
Hexachlorobenzene	ND	1600	ug/kg	90
Hexachlorobutadiene	ND	1600	ug/kg	85
Hexachlorocyclopentadiene	ND	8000	ug/kg	850
Hexachloroethane	ND	1600	ug/kg	110
Indeno(1,2,3-cd)pyrene	ND	1600	ug/kg	90
Isophorone	ND	1600	ug/kg	340
2-Methylnaphthalene	**7700**	**1600**	**ug/kg**	**85**
2-Methylphenol	ND	1600	ug/kg	100
3-Methylphenol & 4-Methylphenol	**890 J**	**1600**	**ug/kg**	**220**
Naphthalene	**6500**	**1600**	**ug/kg**	**85**
2-Nitroaniline	ND	8000	ug/kg	160
3-Nitroaniline	ND	8000	ug/kg	95
4-Nitroaniline	ND	8000	ug/kg	340
Nitrobenzene	ND	1600	ug/kg	340
2-Nitrophenol	ND	1600	ug/kg	340
4-Nitrophenol	ND	8000	ug/kg	850
N-Nitrosodimethylamine	ND	1600	ug/kg	85
N-Nitrosodiphenylamine	ND	1600	ug/kg	120
N-Nitrosodi-n-propylamine	ND	1600	ug/kg	340
Pentachlorophenol	ND	8000	ug/kg	850
Phenanthrene	**920 J**	**1600**	**ug/kg**	**95**
Phenol	**2000**	**1600**	**ug/kg**	**85**
2,2'-oxybis(1-Chloropropane)	ND	1600	ug/kg	85
Pyrene	**210 J**	**1600**	**ug/kg**	**140**
Pyridine	ND	3300	ug/kg	85
1,2,4-Trichlorobenzene	**2000**	**1600**	**ug/kg**	**85**

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	34 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	43 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	5.5 *	(42 - 124)
Terphenyl-d14	6.6 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-001 **Work Order #:** H2H341AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	24000 NJ	M	2.2315	ug/kg
Tetrachloroethylene	127-18-4	28000 NJ	M	2.537	ug/kg
Ethylbenzene	100-41-4	5900 NJ	M	2.9366	ug/kg
p-Xylene	106-42-3	20000 NJ	M	3.0012	ug/kg
Benzene, 1,3-dimethyl-	108-38-3	8600 NJ	M	3.1951	ug/kg
Ethanol, 2-butoxy-	111-76-2	3200 NJ	M	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6800 NJ	M	3.4477	ug/kg
Unknown		5900 NJ	M	3.7415	ug/kg
Unknown		7400 NJ	M	4.0235	ug/kg
Unknown		3100 NJ	M	4.2644	ug/kg
Limonene	138-86-3	35000 NJ	M	4.3056	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	3100 NJ	M	4.4818	ug/kg
Benzene, 1-methyl-3-(1-methyle	535-77-3	2500 NJ	M	4.5465	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2500 NJ	M	4.7404	ug/kg
Undecane	1120-21-4	4600 NJ	M	4.8814	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.0988	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	M	5.1399	ug/kg
Unknown		1400 NJ	M	5.4396	ug/kg
Unknown		1800 NJ	M	5.8097	ug/kg
Tridecane	629-50-5	1800 NJ	M	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2500 NJ	M	6.9437	ug/kg
Biphenyl	92-52-4	1500 NJ	M	7.6018	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.684	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1600 NJ	M	7.9661	ug/kg
Unknown		1700 NJ	M	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	6600 NJ	M	8.3832	ug/kg
1,1'-Biphenyl, 2,3'-dimethyl-	611-43-8	1400 NJ	M	8.677	ug/kg
Diethyltoluamide	134-62-3	2600 NJ	M	8.959	ug/kg
Unknown		3900 NJ	M	11.655	ug/kg
1,4-dioxane	123-91-1	3100 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Lab Smp Id: H2H341AA Client Smp ID: G-2890-R1-SPENT ACT
Inj Date : 18-APR-2006 13:41
Operator : 60841 Inst ID: md.i
Smp Info : H2H341AA,5,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 9
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	59515	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	185347	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	125970	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	216415	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	230648	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	232048	20.0000	
$ 7 2-Fluorophenol	112	3.036	3.025	(0.729)	21319	5.12253	854(R)
$ 8 Phenol-d5	99	3.865	3.859	(0.928)	32983	6.56993	1090(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	17814	4.26377	711
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	34420	4.14478	691(R)
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	1129	0.82341	137(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	7445	0.66372	111(R)
175 1,4-Dioxane	88	1.850	1.850	(0.444)	26061	18.6008	3100
13 N-Nitrosodimethylamine	74	2.232	2.050	(0.536)	11667	5.87355	~~979~~
14 Pyridine	79	2.091	2.067	(0.502)	3273	0.82421	~~137~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
15 Phenol (ccc)	94	3.877	3.871	(0.931)	62982	11.8696	1980
16 Aniline	93	3.965	3.877	(0.952)	6450	1.08868	~~181~~
17 Bis(2-chloroethyl)ether	93	3.900	3.930	(0.936)	2350	0.63309	~~106~~
19 1,3-Dichlorobenzene	146	4.176	4.124	(1.003)	51337	11.3642	~~1890~~
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.003)	51337	11.2494	1870
21 Benzyl alcohol	108	4.329	4.323	(1.040)	3061	1.16360	~~194~~
22 1,2-Dichlorobenzene	146	4.376	4.370	(1.051)	684862	156.584	26100
23 2-Methylphenol	108	4.482	4.476	(1.076)	9764	2.59055	~~432~~
24 2,2'-Oxybis(1-Chloropropane)	45	4.394	4.500	(1.055)	8424	1.32379	~~221~~
25 4-Methylphenol	108	4.658	4.647	(1.119)	20831	5.31613	886
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	20831	5.31613	886
27 N-Nitroso-di-n-propylamine###	70	4.347	4.658	(1.044)	8364	2.86062	~~477~~
29 Nitrobenzene	77	4.834	4.835	(0.841)	3606	0.89039	~~148~~
30 Isophorone	82	5.140	5.146	(0.894)	4788	0.63663	~~106~~
32 2,4-Dimethyphenol	107	5.357	5.346	(0.932)	4204	1.03206	~~172~~
33 Bis(2-chloroethoxy)methane	93	5.363	5.469	(0.933)	3292	0.76118	~~127~~
34 Benzoic acid	122	5.534	5.510	(0.962)	4175	1.98328	~~330~~
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	43727	12.1208	2020
37 Naphthalene	128	5.774	5.781	(1.004)	423834	39.0511	6510
38 4-Chloroaniline	127	5.774	5.898	(1.004)	57895	12.3752	~~2060~~
40 4-Chloro-3-methylphenol (ccc)	107	6.809	6.638	(1.184)	3860	1.13478	~~189~~
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	320097	46.2018	7700
46 2-Nitroaniline	65	7.778	7.831	(0.925)	1904	0.78997	~~132~~
47 Acenaphthylene	152	8.207	8.213	(0.976)	90259	7.59170	1260
49 2,6-Dinitrotoluene	165	8.360	8.242	(0.994)	1282	0.68827	~~115~~
50 3-Nitroaniline	138	8.648	8.413	(1.028)	1711	0.76782	~~128~~
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	24446	3.42436	571
52 2,4-Dinitrophenol ##spcc##	184	8.683	8.536	(1.032)	497	12.1241	~~2020~~
53 Dibenzofuran	168	8.677	8.648	(1.031)	6919	0.64968	~~108~~
54 4-Nitrophenol ##spcc##	109	8.718	8.683	(1.036)	3588	2.58060	~~430~~
55 2,4-Dinitrotoluene	165	8.712	8.718	(1.036)	5386	2.14639	~~358~~
56 Fluorene	166	9.035	9.036	(1.074)	38763	4.36732	728
60 4,6-Dinitro-2-methylphenol	198	9.517	9.159	(0.959)	865	0.63582	~~106~~
61 N-Ndpa / diphenylamine (ccc)	169	9.206	9.194	(0.928)	3956	0.69897	~~116~~
66 Phenanthrene	178	9.946	9.946	(1.002)	72231	5.53522	922
67 Anthracene	178	9.981	9.982	(1.006)	15486	1.18626	198
70 Fluoranthene (ccc)	202	10.910	10.916	(1.099)	11742	0.83309	139
71 Pyrene	202	11.080	11.080	(0.923)	18899	1.28119	214
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	12961	1.54275	257
84 Benzidine	184	10.916	11.016	(1.100)	5154	0.58105	~~96.8~~
91 acetophenone	105	4.629	4.623	(1.111)	70247	14.0497	~~2340~~
104 m-dinitrobenzene	76	8.154	8.160	(0.969)	1394	1.32881	~~221~~
110 diphenylamine	169	9.182	9.188	(1.091)	4200	0.63706	~~106~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 14:40

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h342aa.d
Lab Smp Id: H2H341AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2890-R1-SPENT ACT
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	59515	-3.89
2 Naphthalene-d8	196946	98473	393892	185347	-5.89
3 Acenaphthene-d10	140395	70198	280790	125970	-10.27
4 Phenanthrene-d10	245474	122737	490948	216415	-11.84
5 Chrysene-d12	253631	126816	507262	230648	-9.06
6 Perylene-d12	225613	112806	451226	232048	2.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

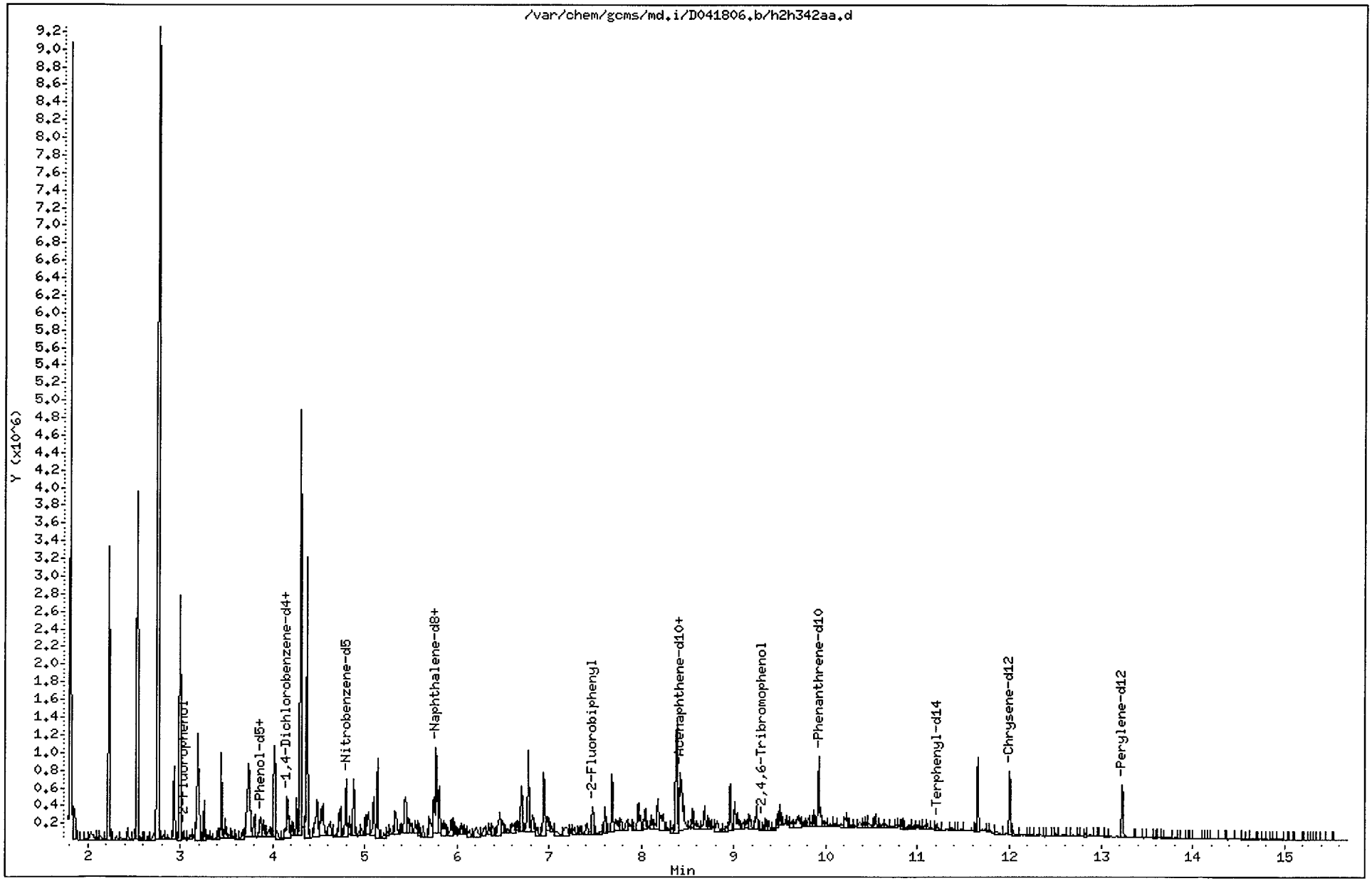
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: H2H341AA
Client Smp ID: G-2890-R1-SPENT ACT
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	854	34.15*	44-103
$ 8 Phenol-d5	2500	1090	43.80*	44-101
$ 9 Nitrobenzene-d5	1670	711	42.64	42-100
$ 10 2-Fluorobiphenyl	1670	691	41.45*	45-102
$ 11 2,4,6-Tribromophen	2500	137	5.49*	47-116
$ 12 Terphenyl-d14	1670	111	6.64*	54-114

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Date : 18-APR-2006 13:41
Client ID: G-2890-R1-SPENT ACT
Sample Info: H2H341AA,5,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

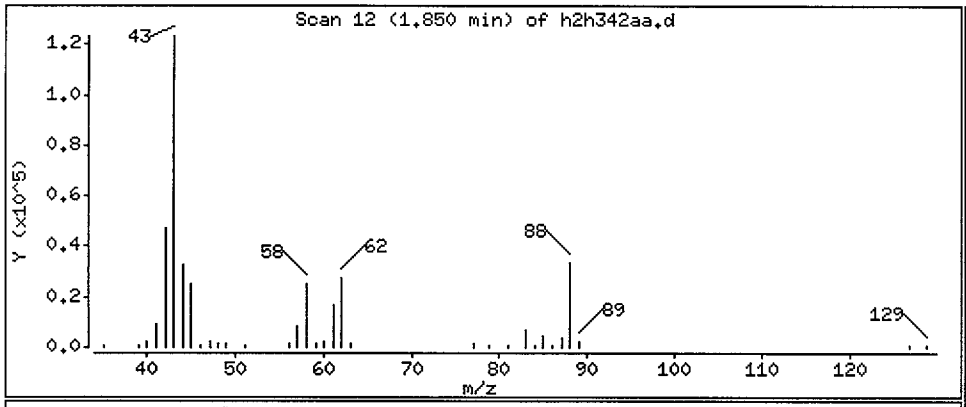
Operator: 60841

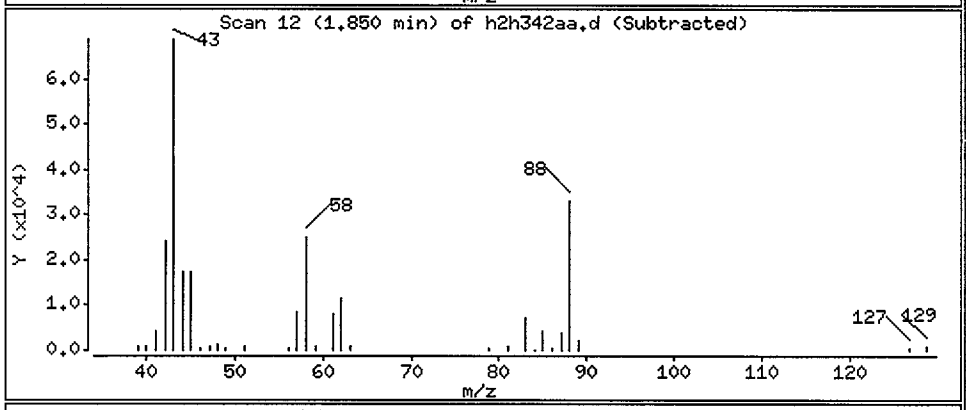
Column phase: ZB-5

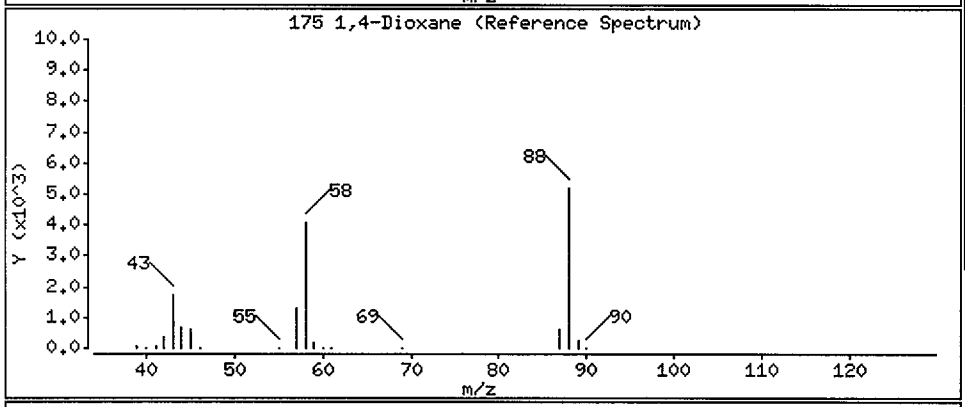
Column diameter: 0.25

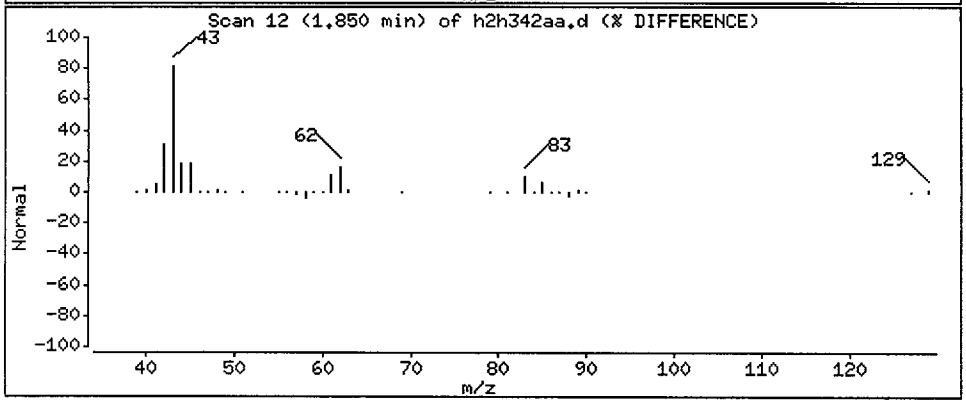
175 1,4-Dioxane

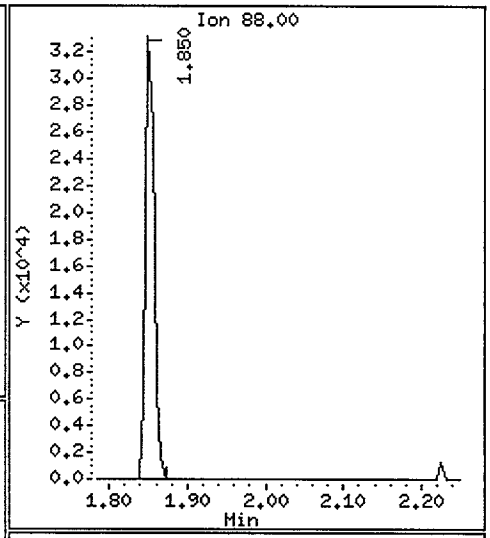
Concentration: 3100 ug/Kg

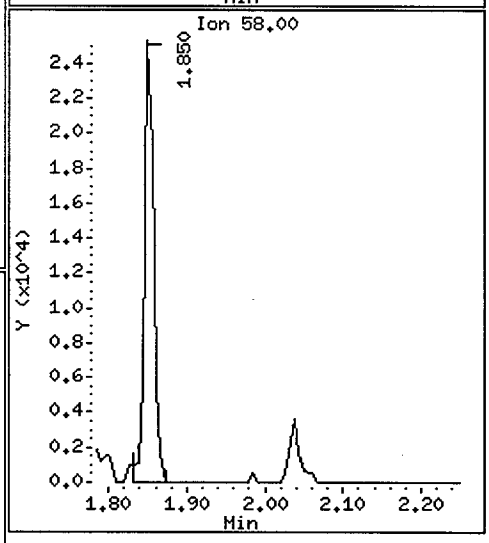












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

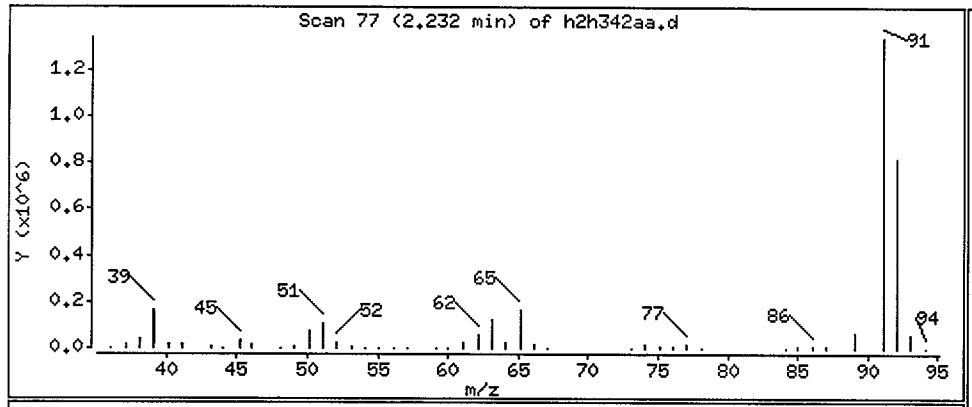
Operator: 60841

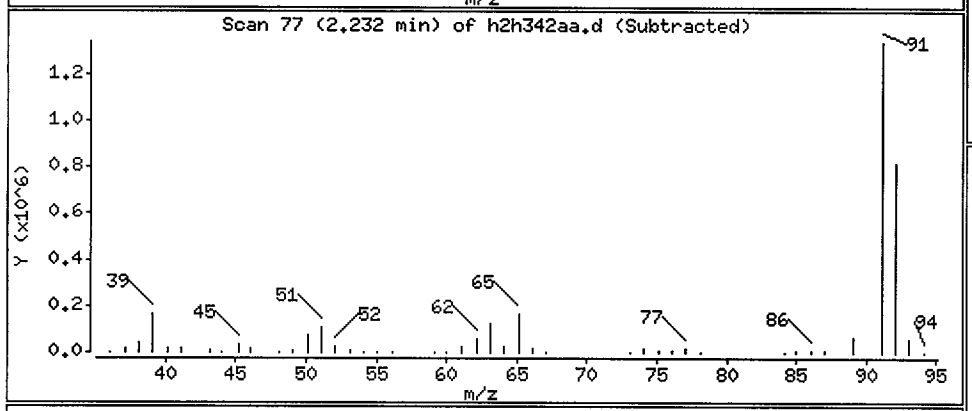
Column phase: ZB-5

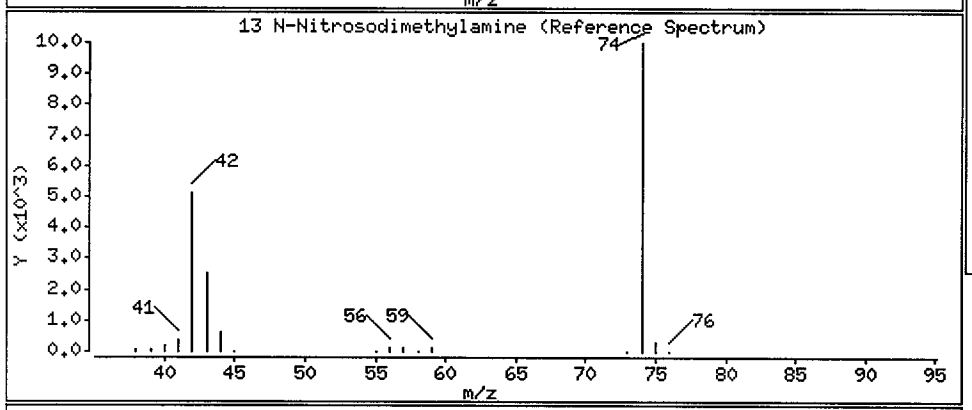
Column diameter: 0.25

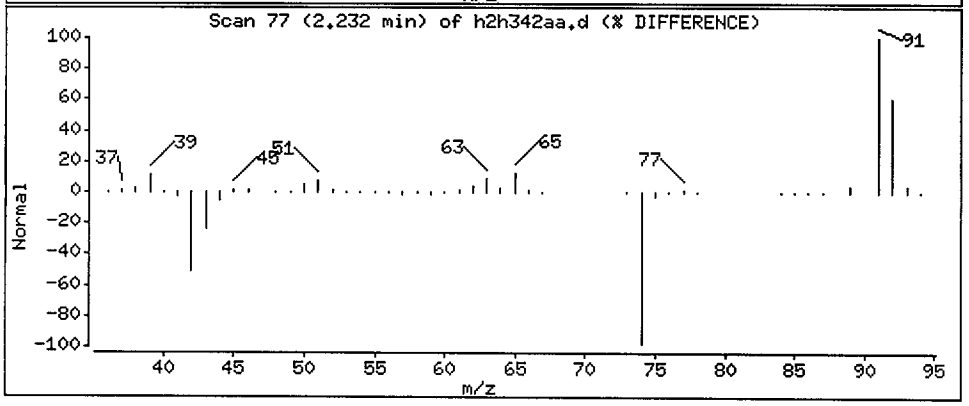
13 N-Nitrosodimethylamine

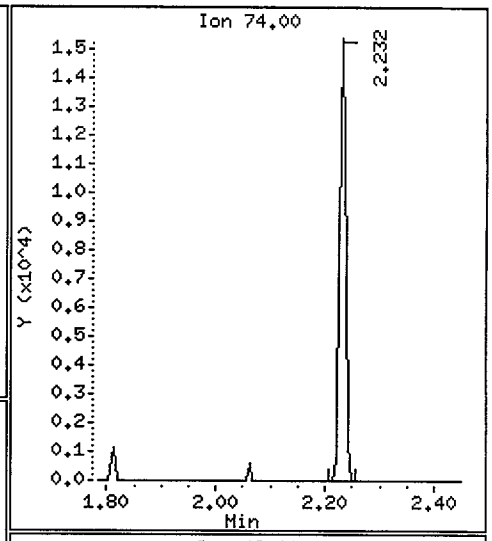
Concentration: 979 ug/Kg

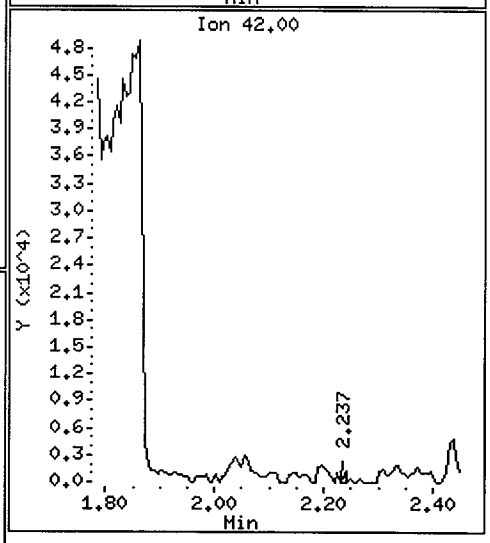












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

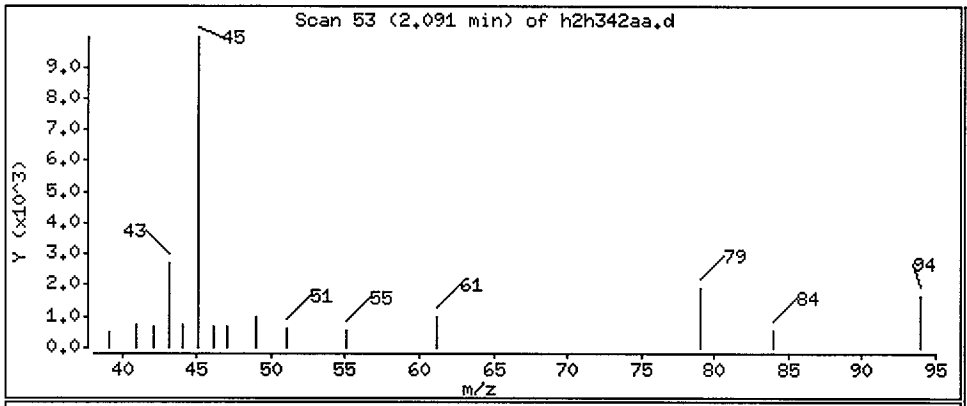
Operator: 60841

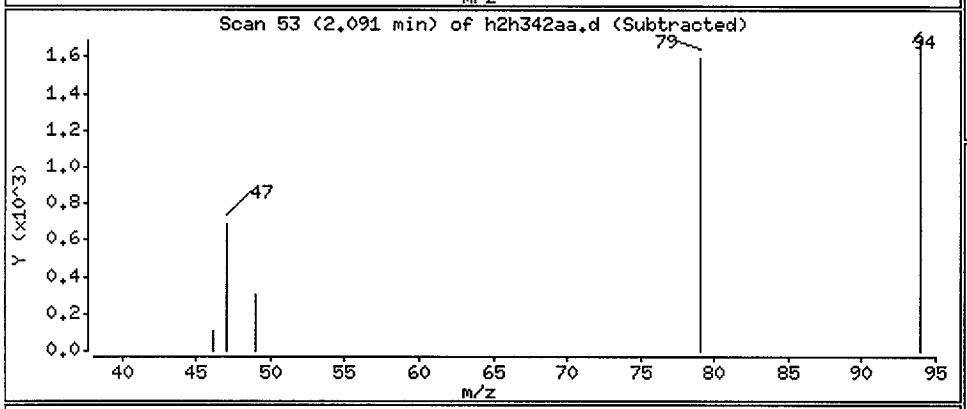
Column phase: ZB-5

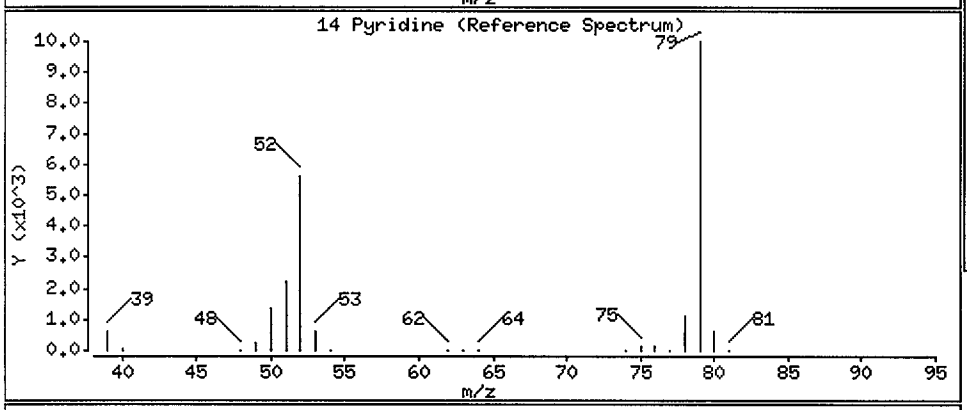
Column diameter: 0.25

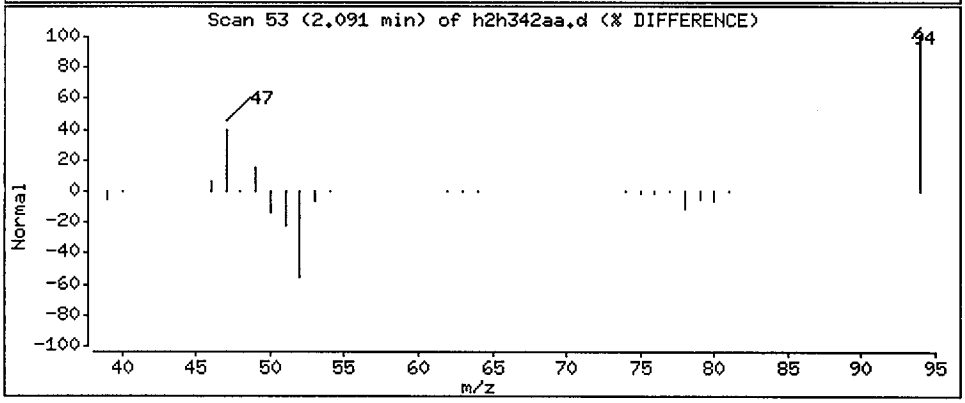
14 Pyridine

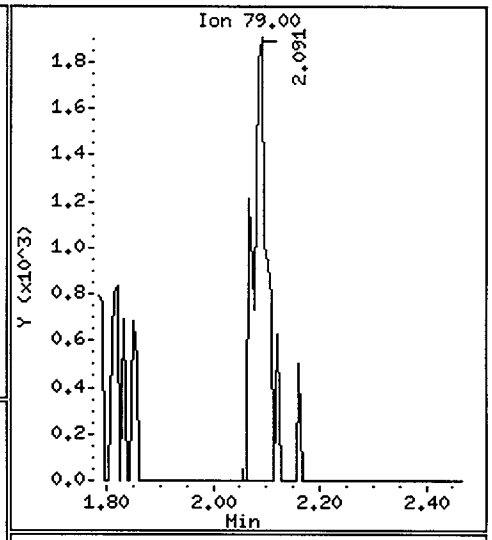
Concentration: 137 ug/Kg

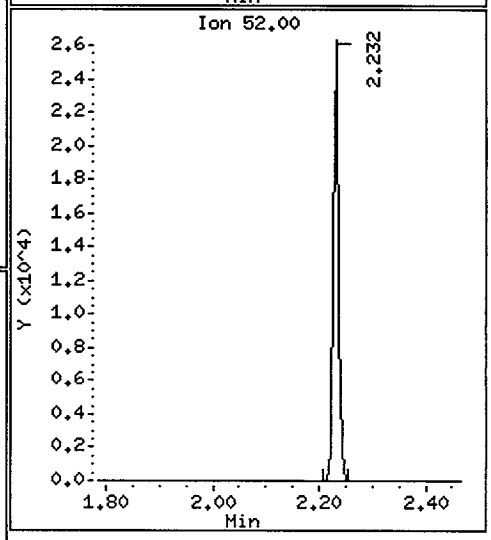












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

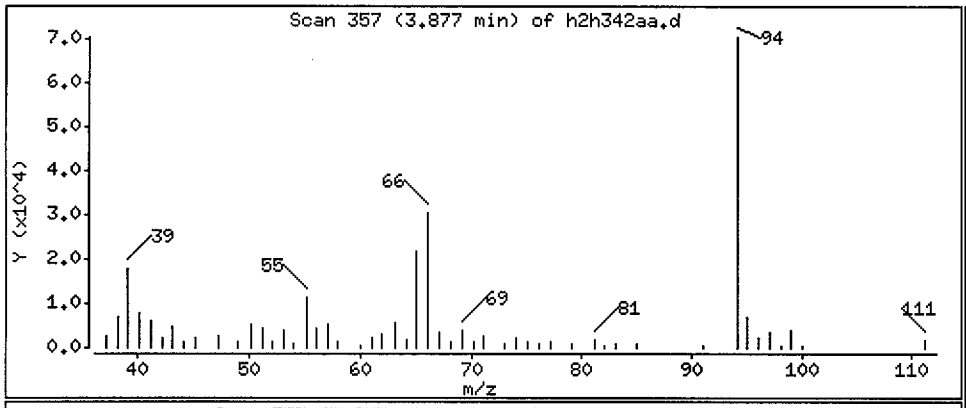
Operator: 60841

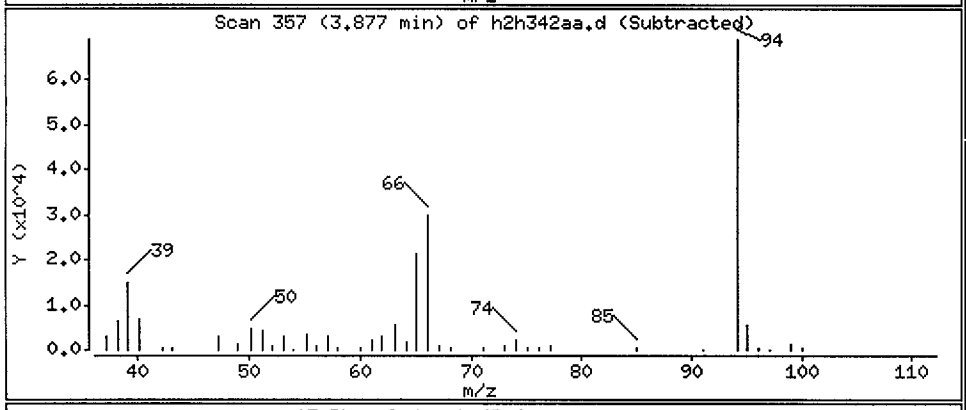
Column phase: ZB-5

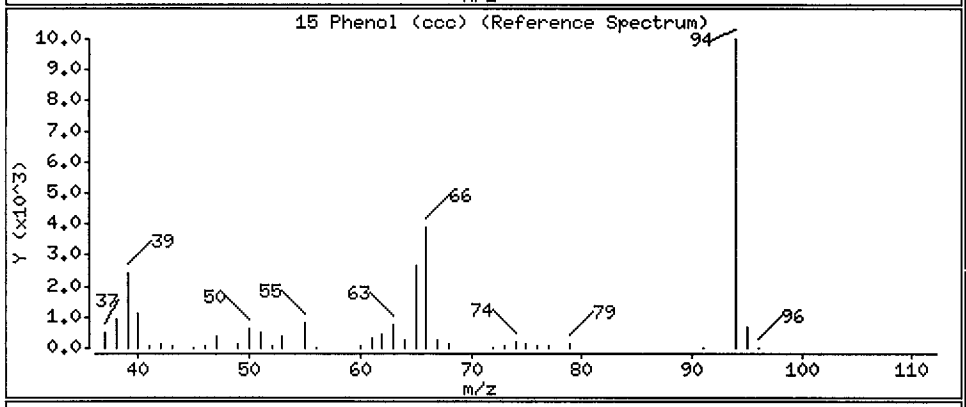
Column diameter: 0.25

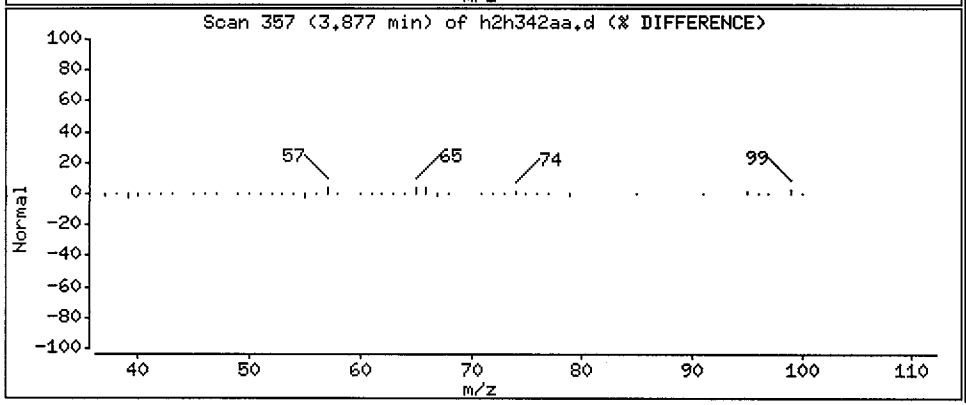
15 Phenol (ccc)

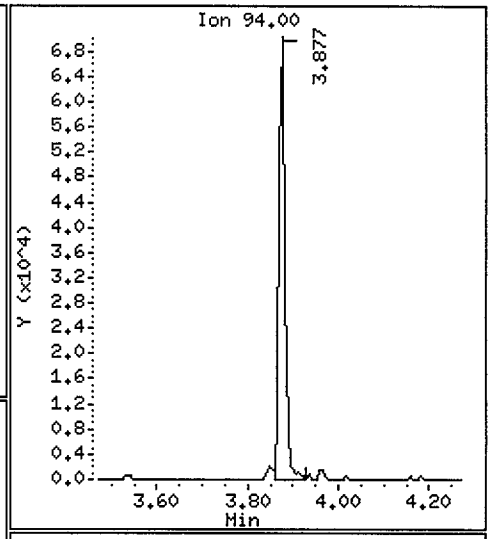
Concentration: 1980 ug/Kg

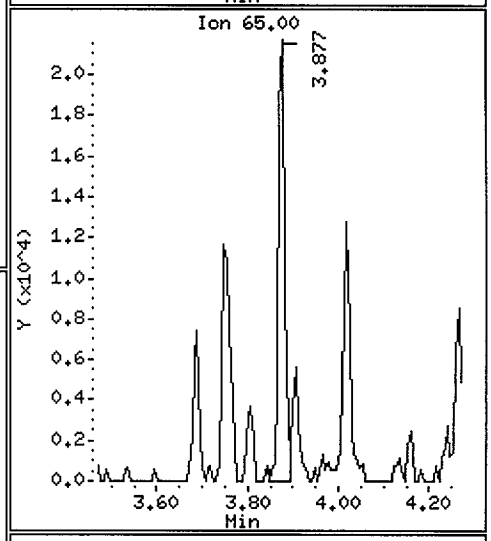


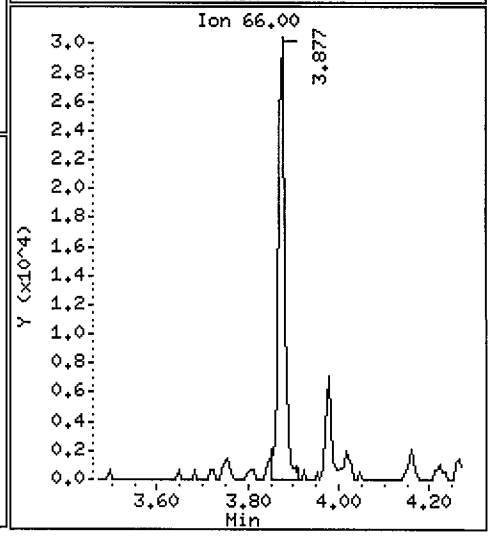












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

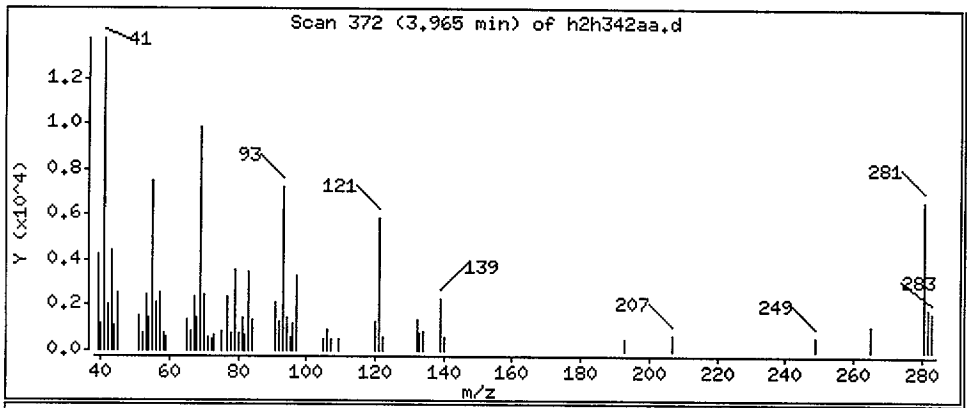
Operator: 60841

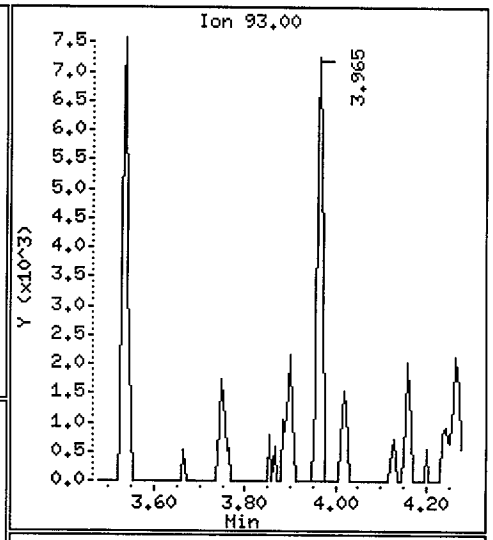
Column phase: ZB-5

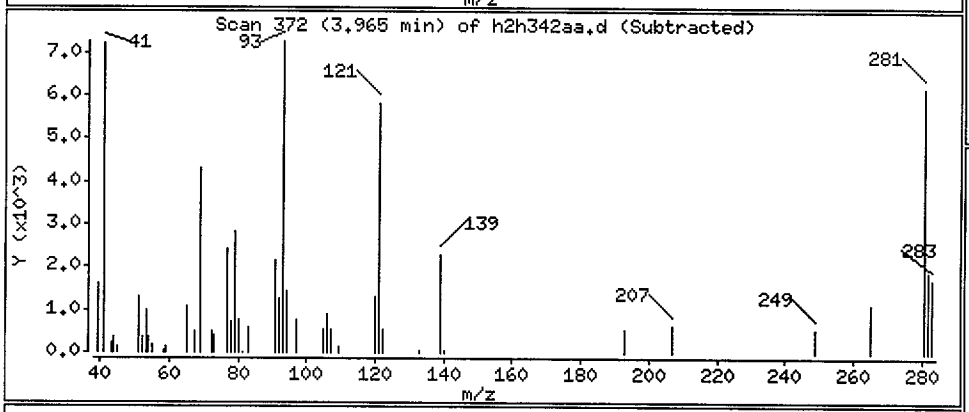
Column diameter: 0.25

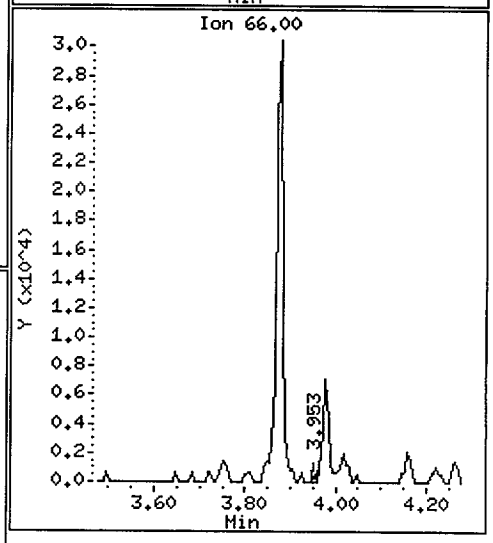
16 Aniline

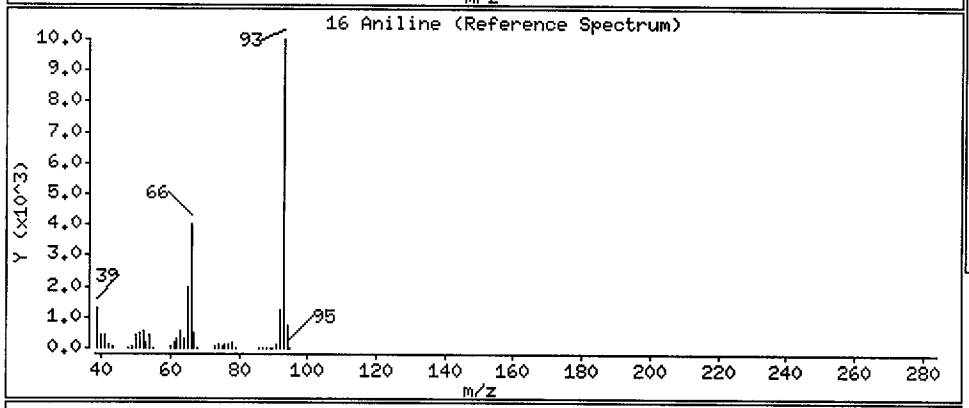
Concentration: 181 ug/Kg

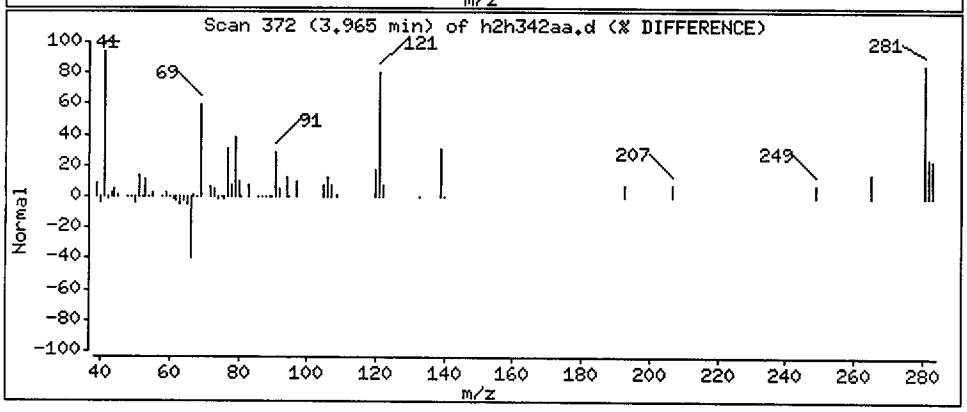












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

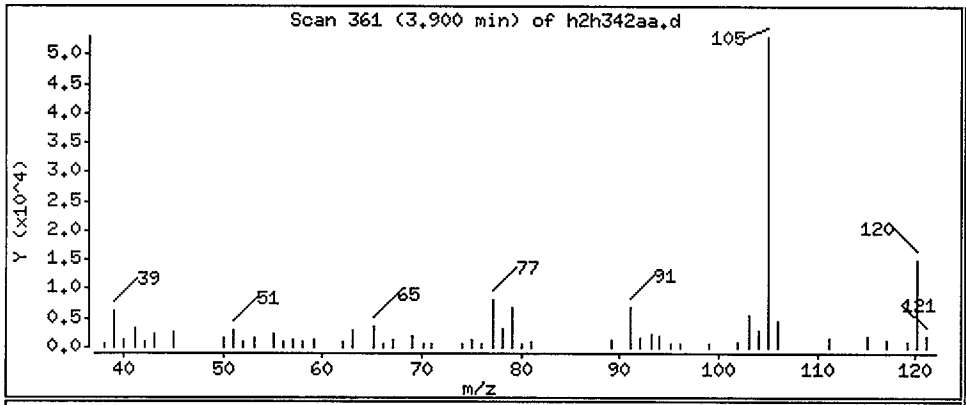
Operator: 60841

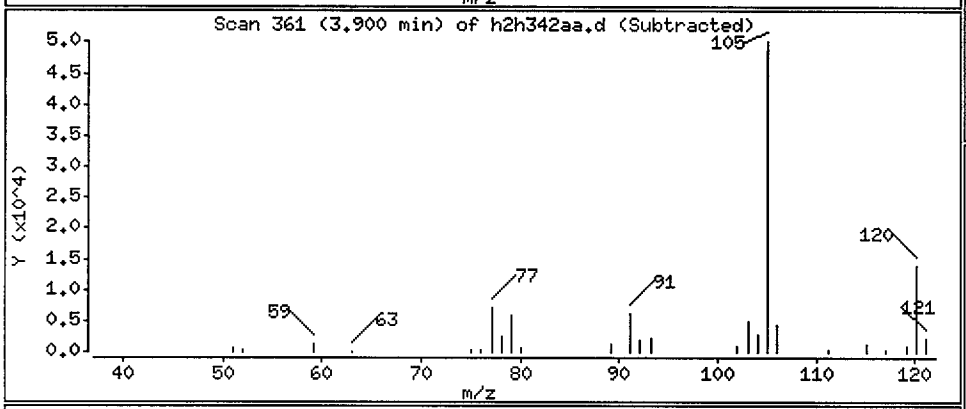
Column phase: ZB-5

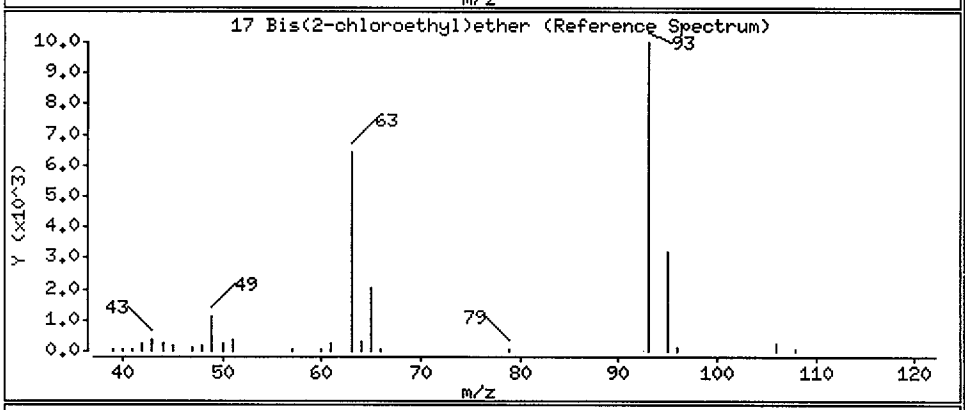
Column diameter: 0.25

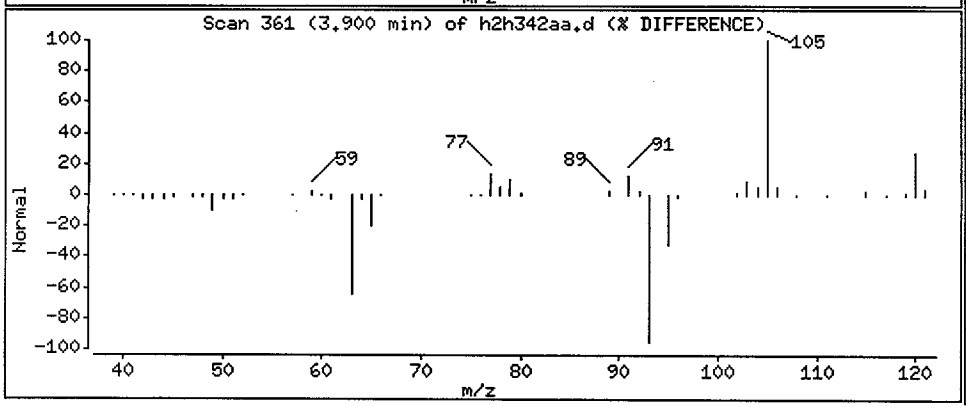
17 Bis(2-chloroethyl)ether

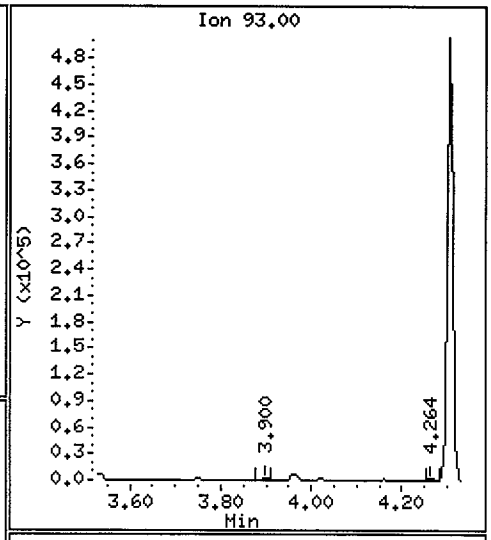
Concentration: 106 ug/Kg

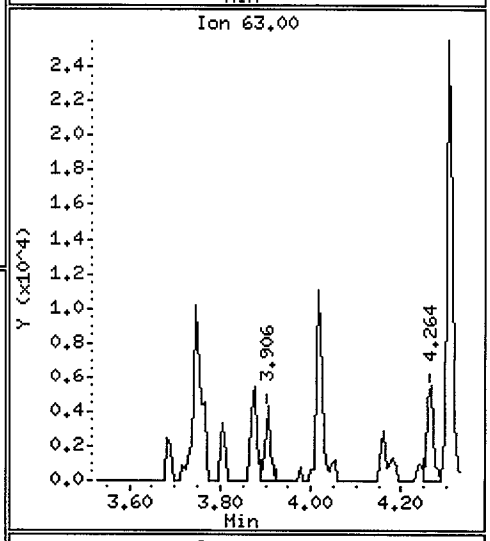


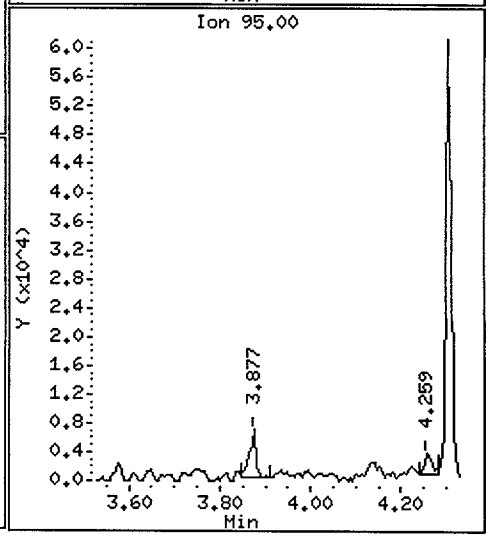












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

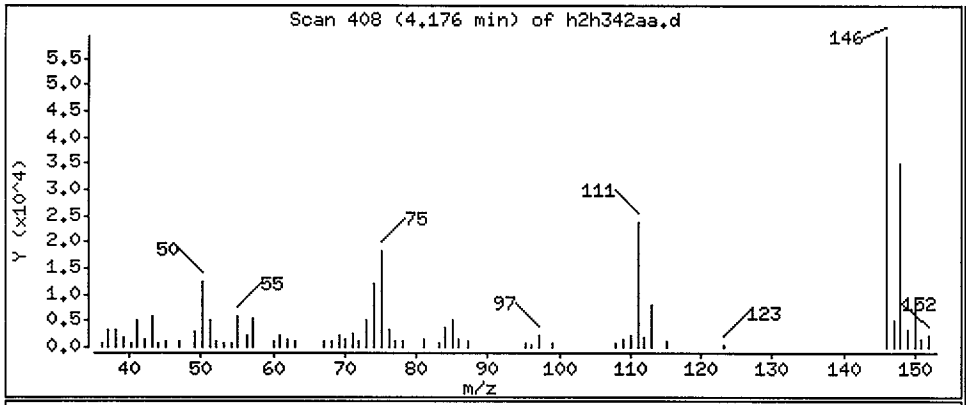
Operator: 60841

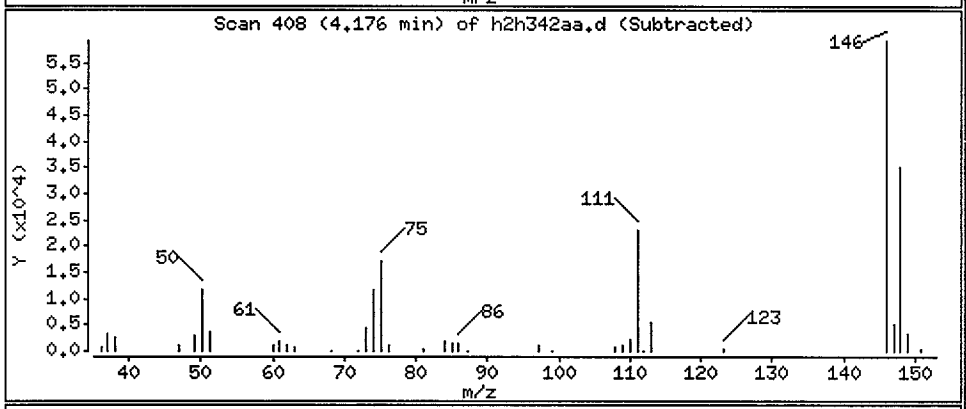
Column phase: ZB-5

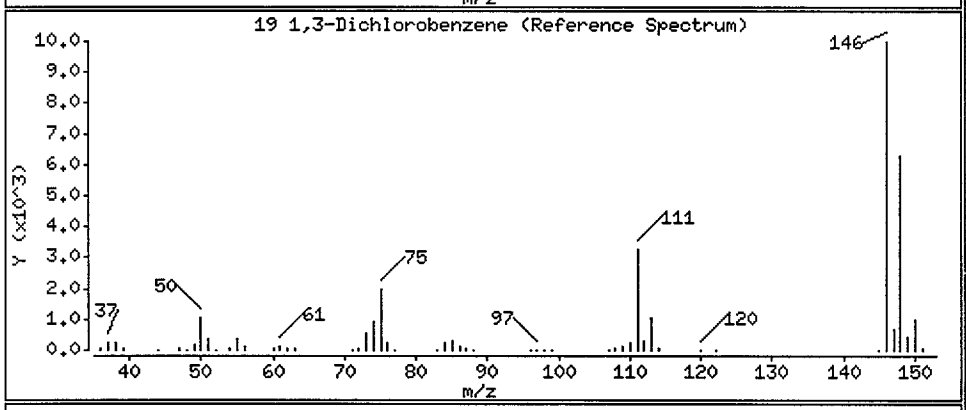
Column diameter: 0.25

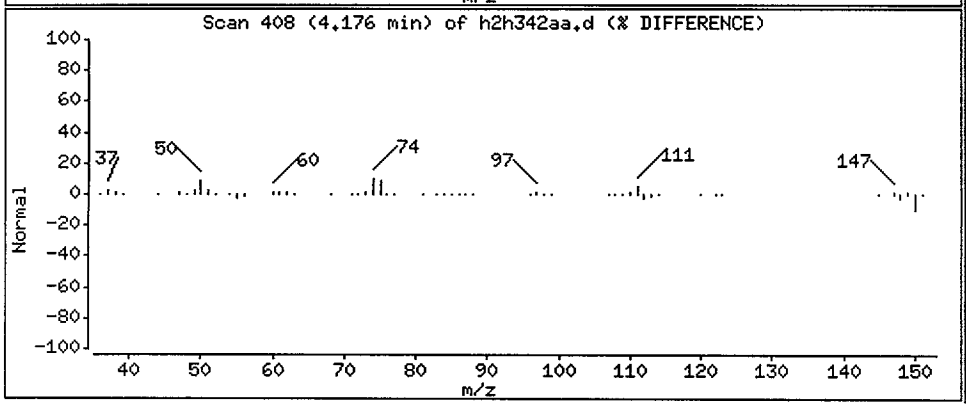
19 1,3-Dichlorobenzene

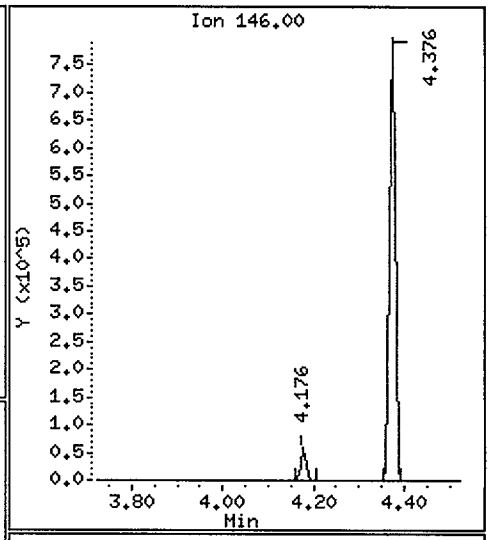
Concentration: 1890 ug/Kg

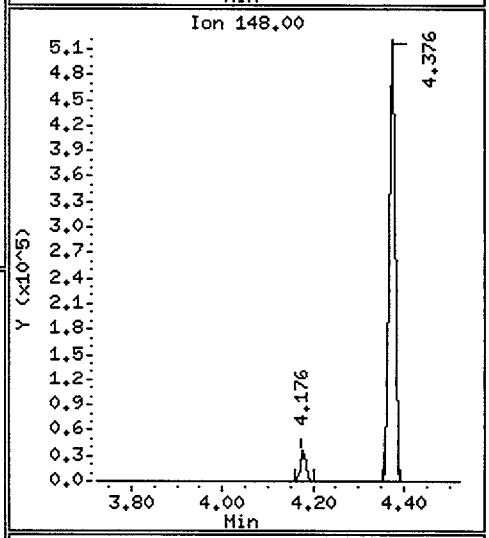


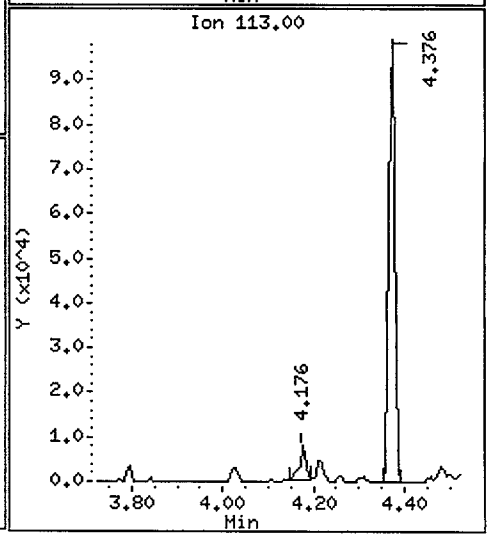












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

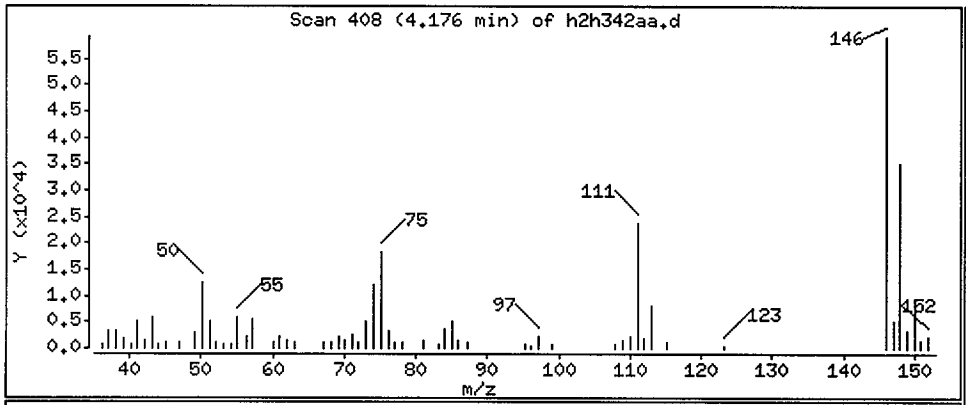
Operator: 60841

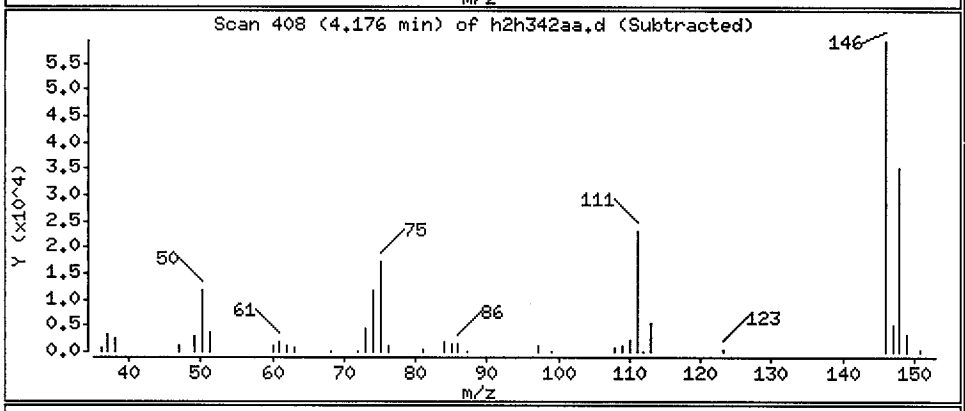
Column phase: ZB-5

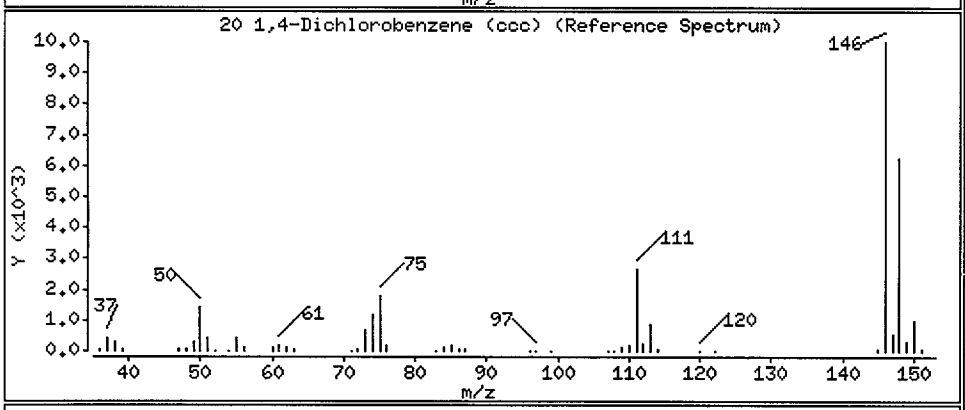
Column diameter: 0.25

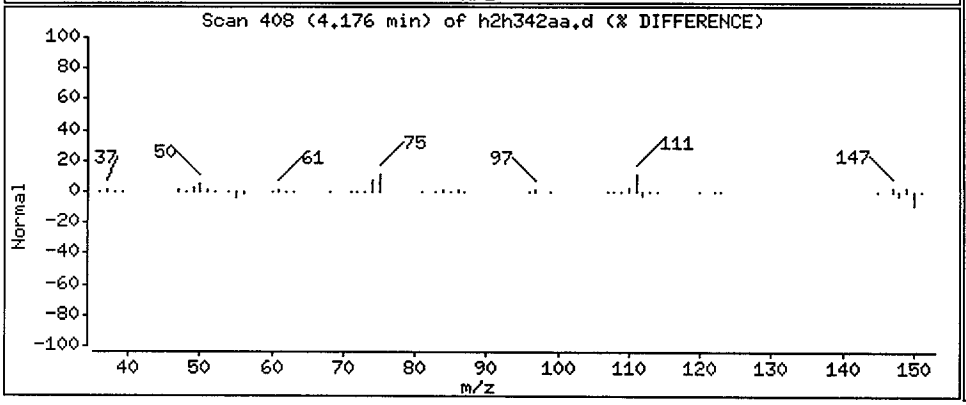
20 1,4-Dichlorobenzene (ccc)

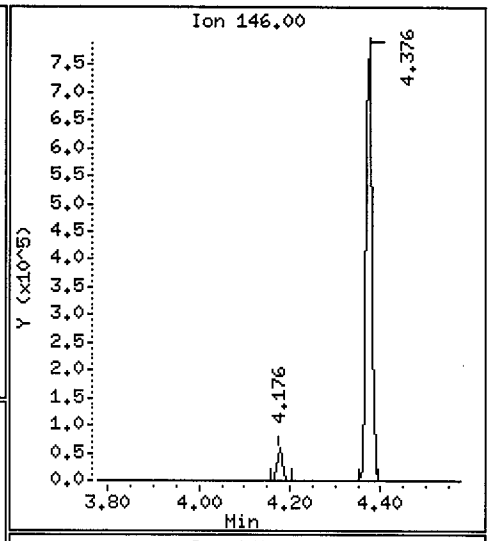
Concentration: 1870 ug/Kg

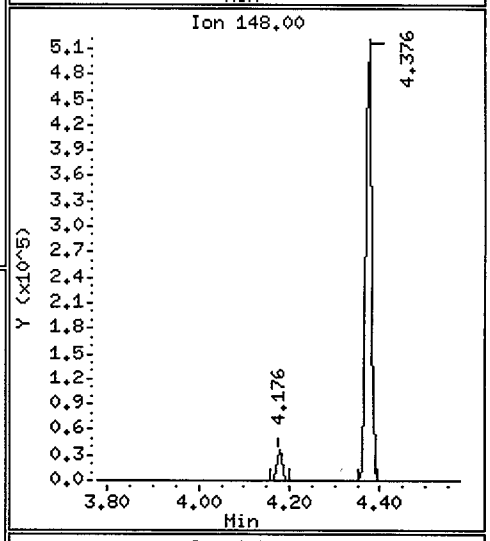


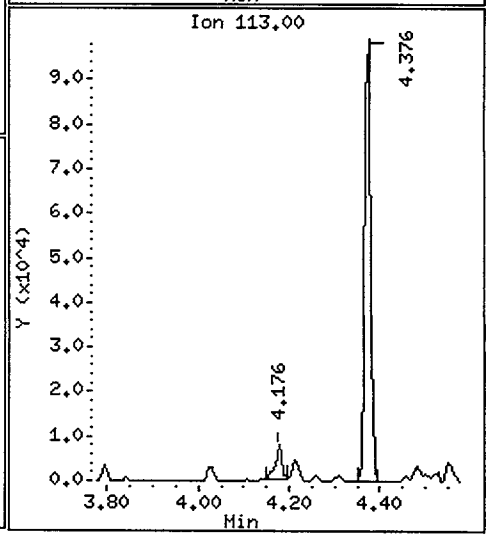












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

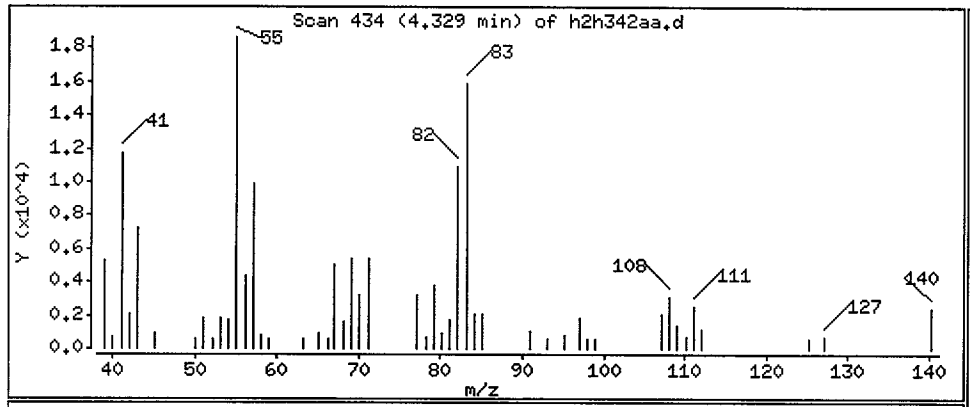
Operator: 60841

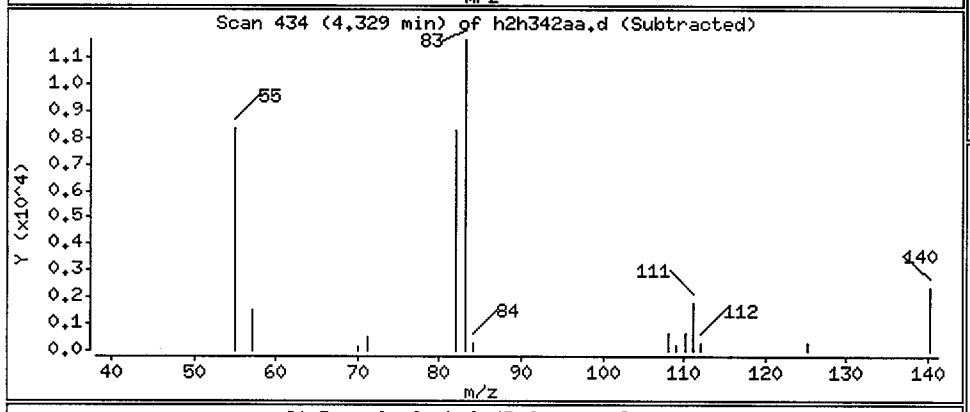
Column phase: ZB-5

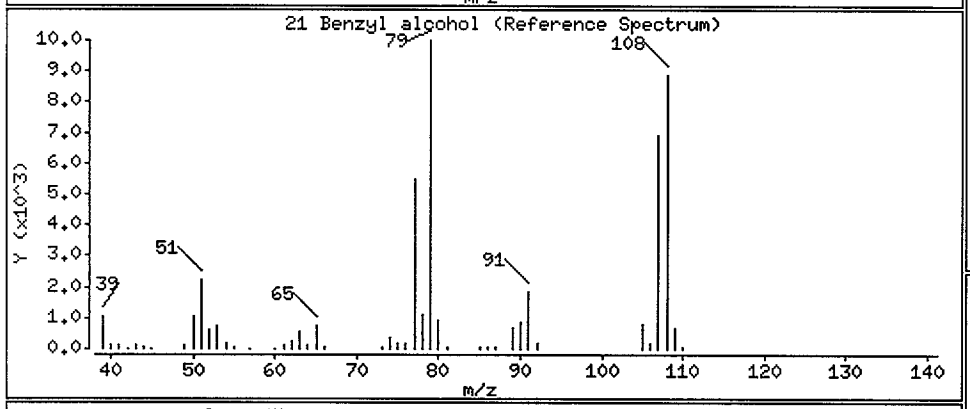
Column diameter: 0.25

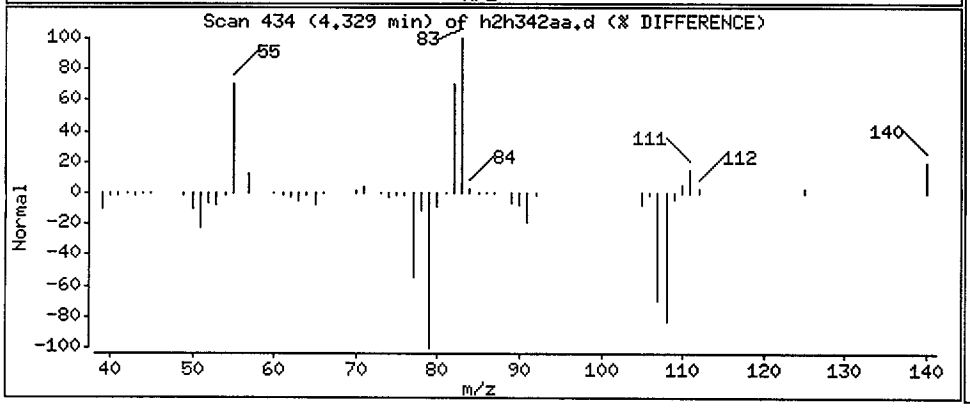
21 Benzyl alcohol

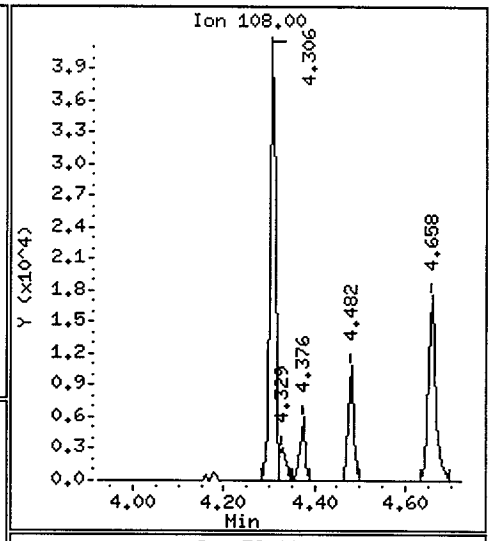
Concentration: 194 ug/Kg

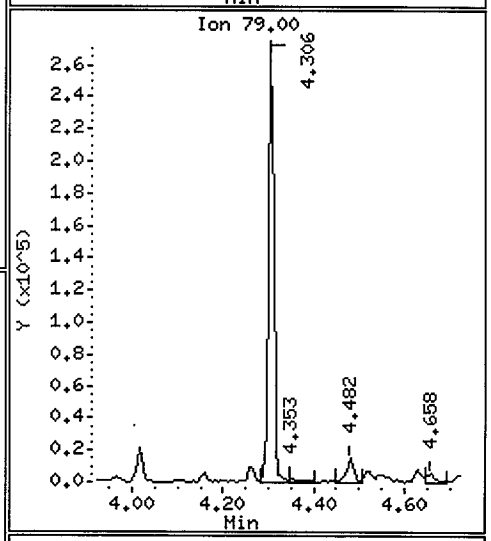


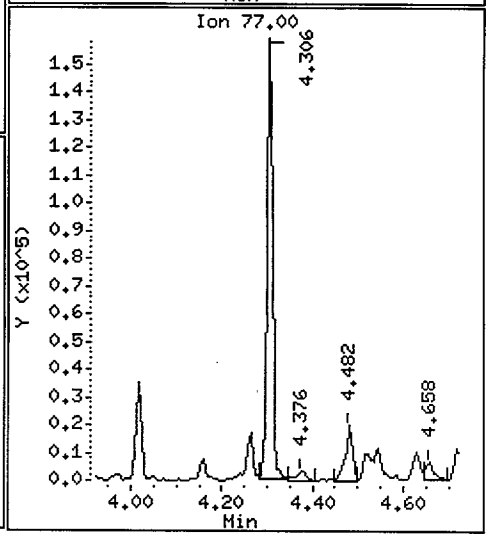












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

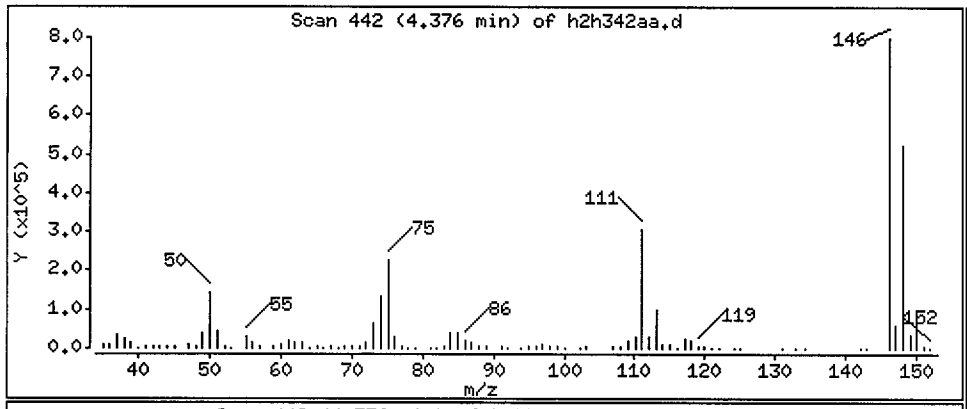
Operator: 60841

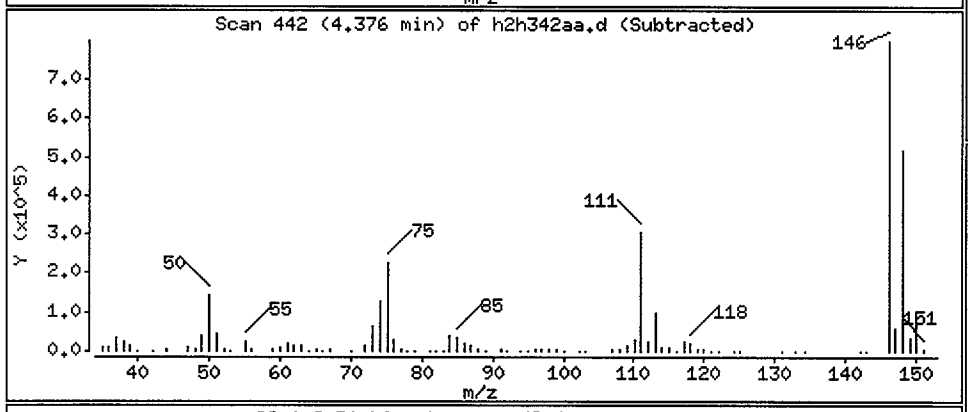
Column phase: ZB-5

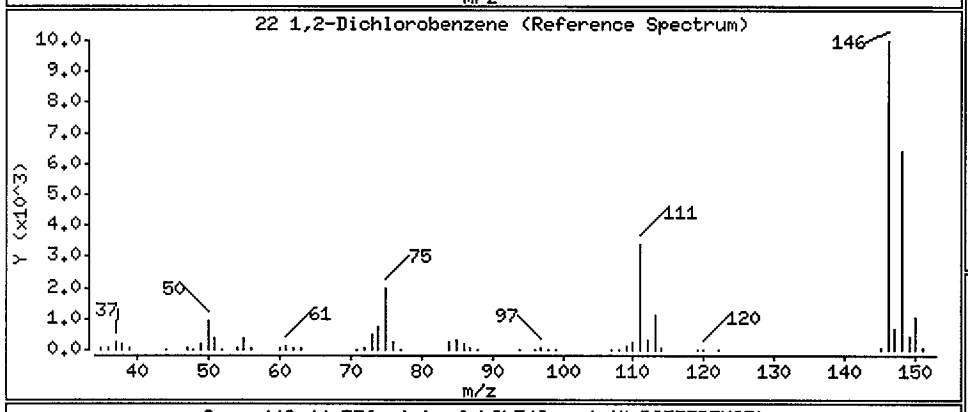
Column diameter: 0.25

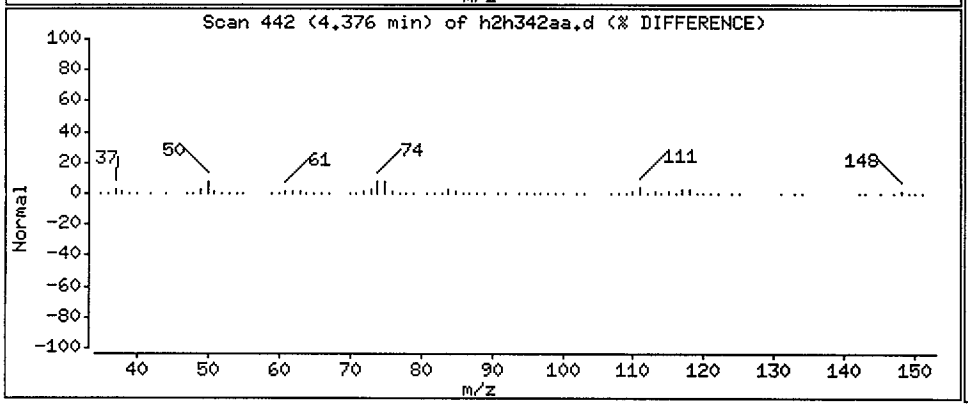
22 1,2-Dichlorobenzene

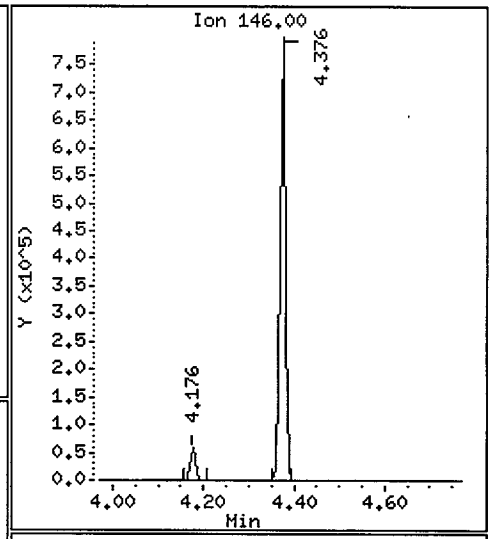
Concentration: 26100 ug/Kg

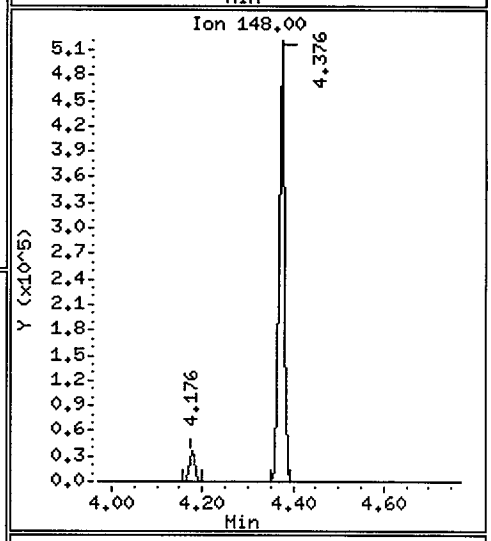


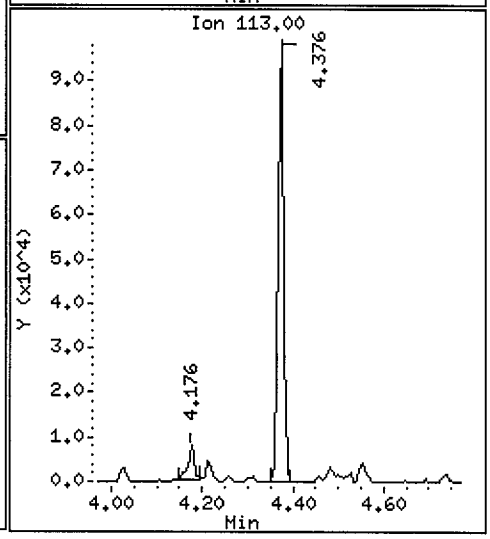












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

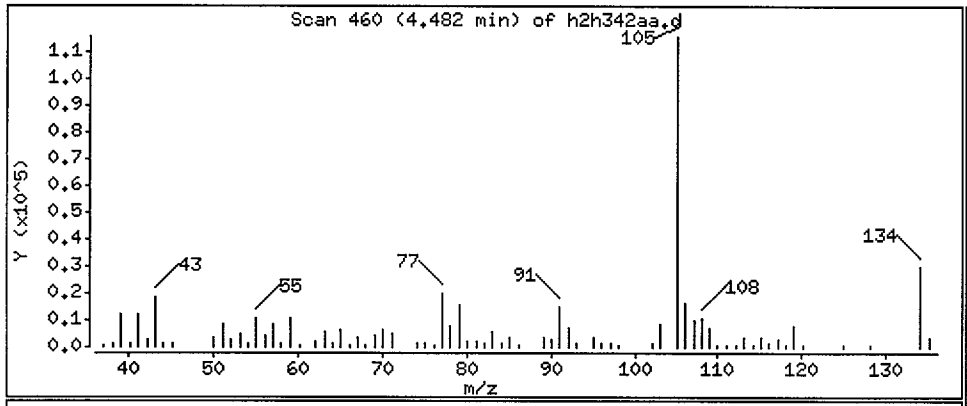
Operator: 60841

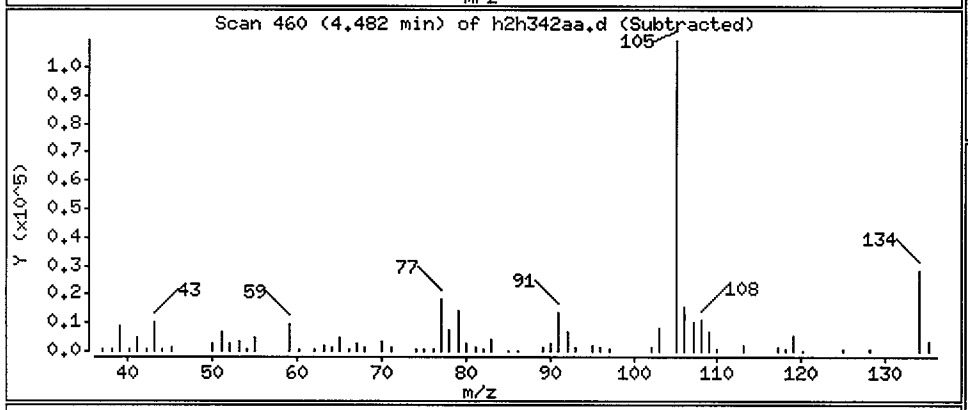
Column phase: ZB-5

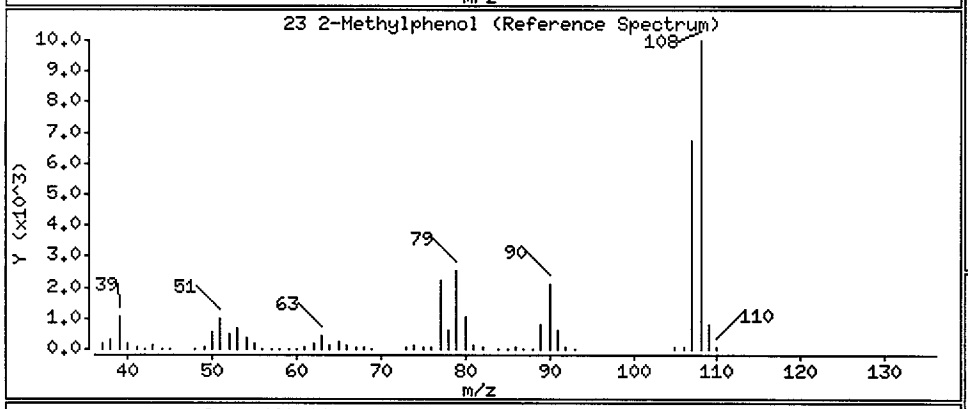
Column diameter: 0.25

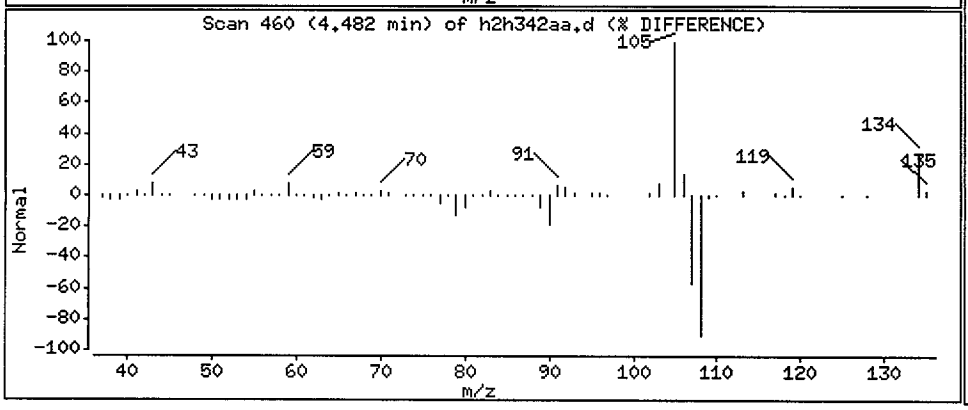
23 2-Methylphenol

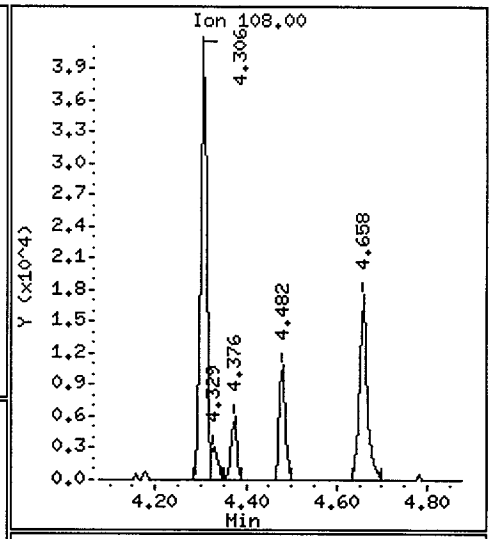
Concentration: 432 ug/Kg

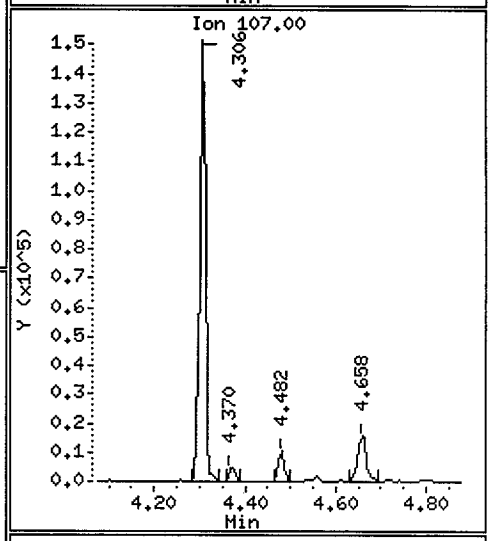


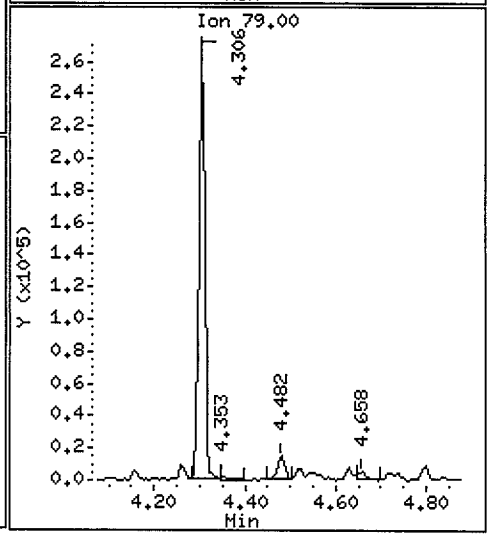












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

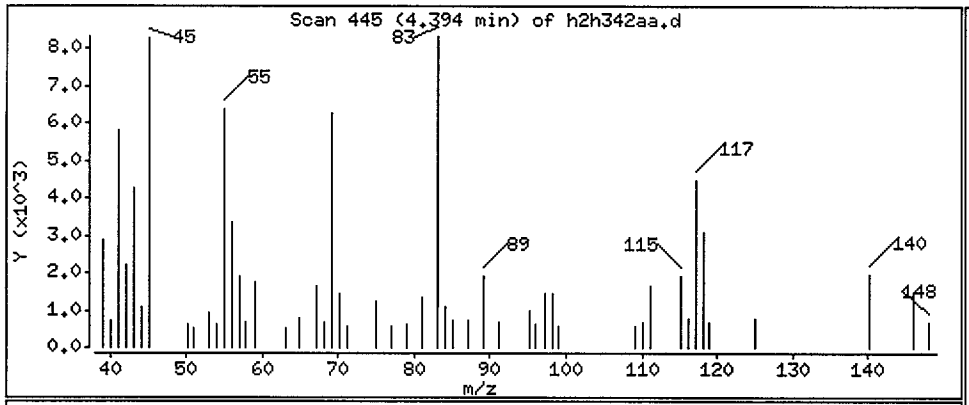
Operator: 60841

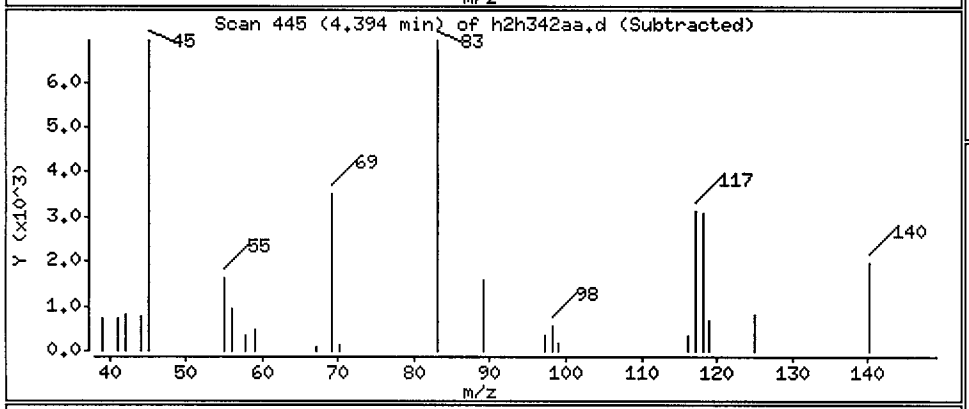
Column phase: ZB-5

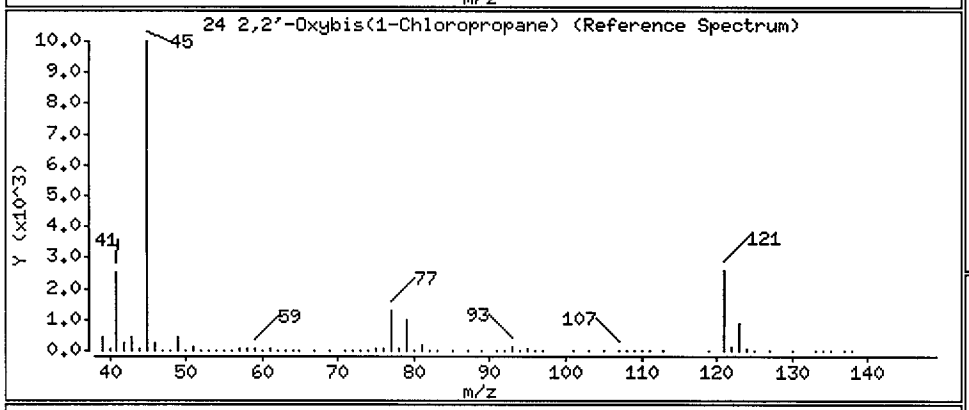
Column diameter: 0.25

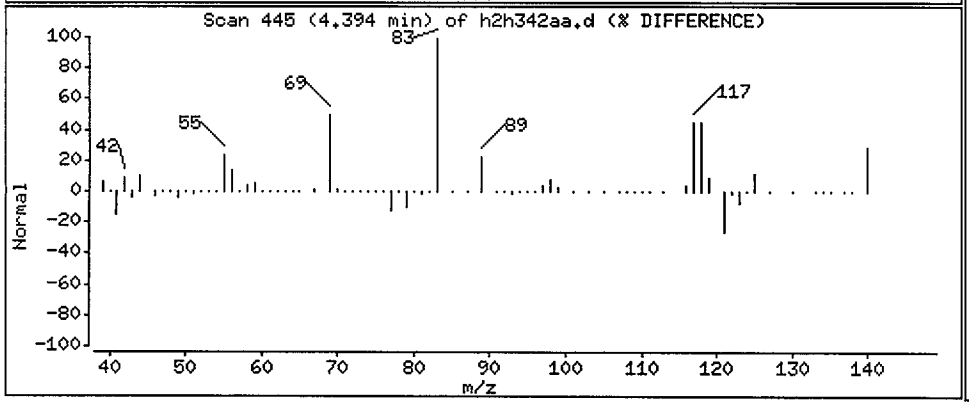
24 2,2'-Oxybis(1-Chloropropane)

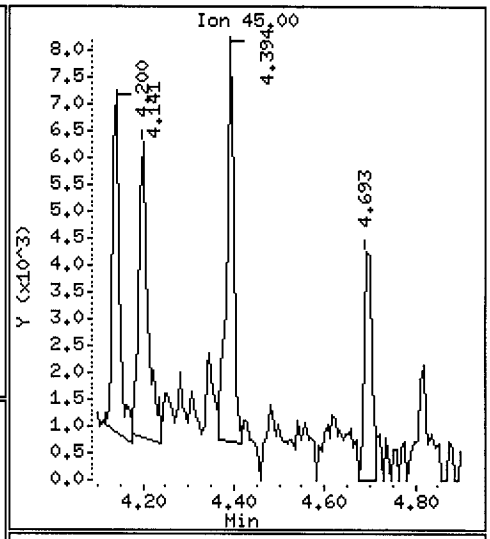
Concentration: 221 ug/Kg

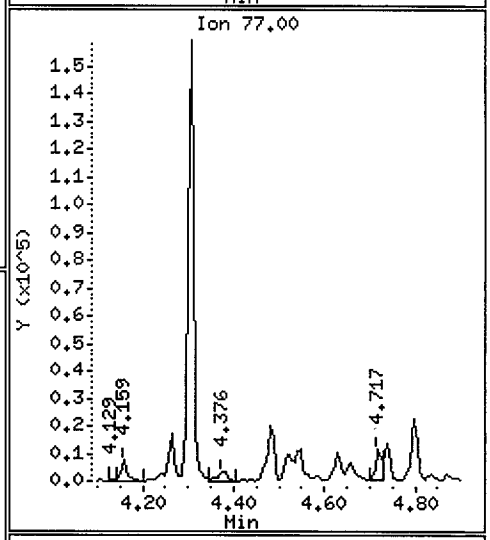


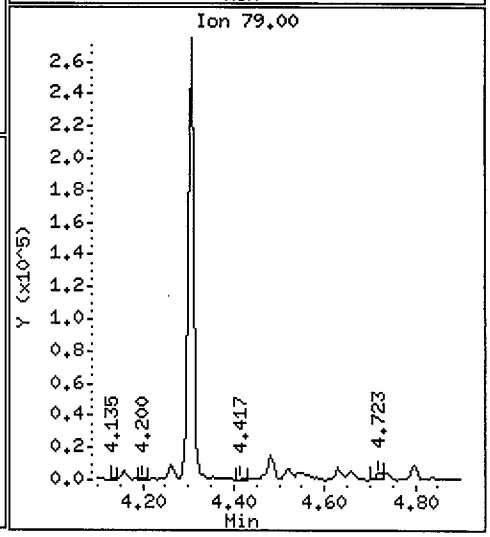












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

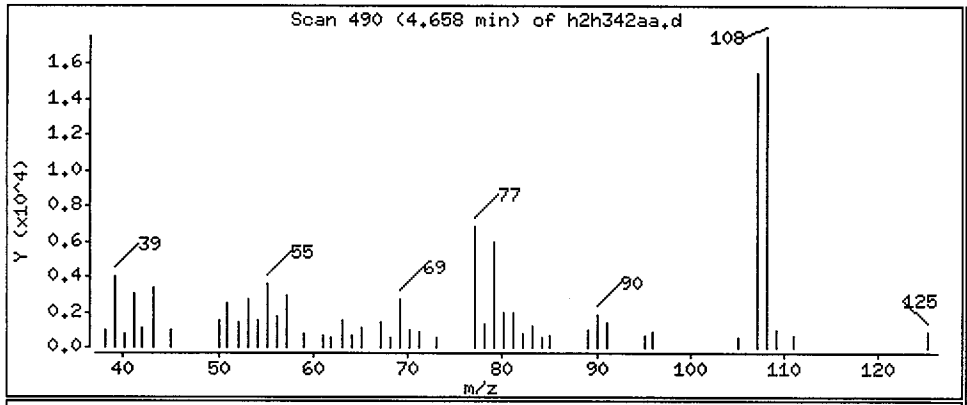
Operator: 60841

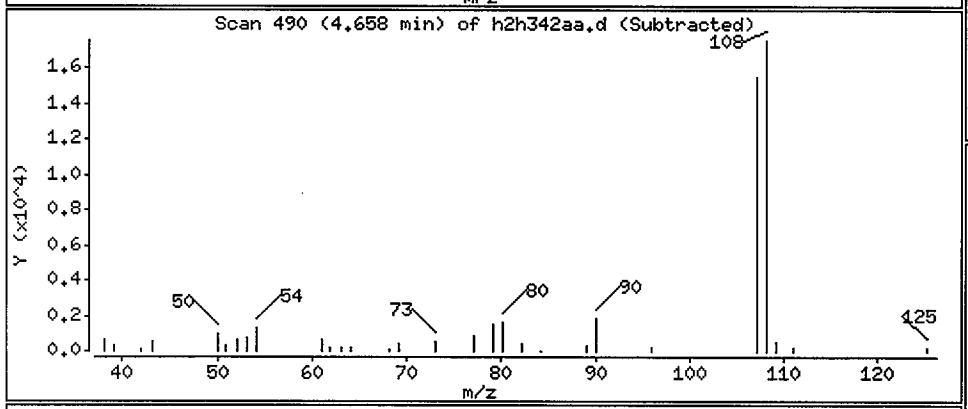
Column phase: ZB-5

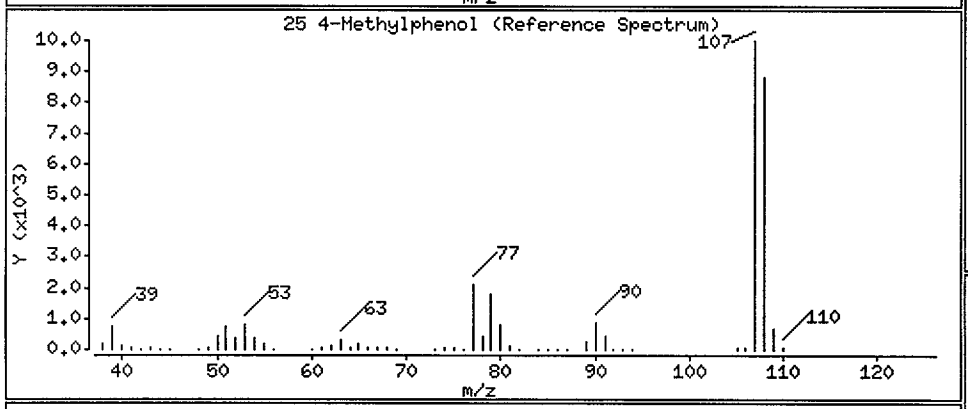
Column diameter: 0.25

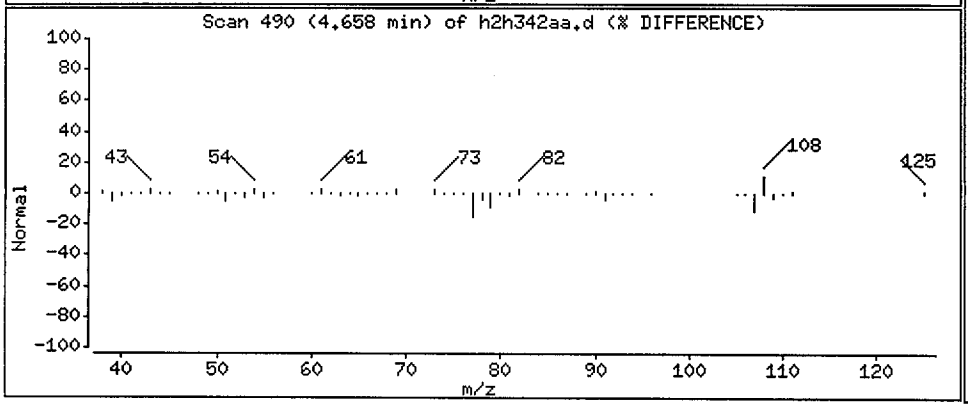
25 4-Methylphenol

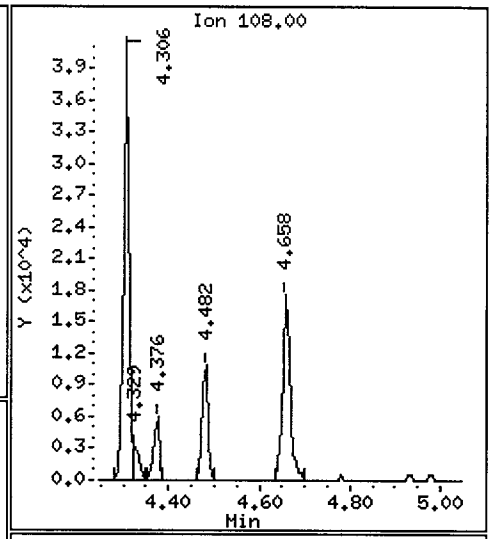
Concentration: 886 ug/Kg

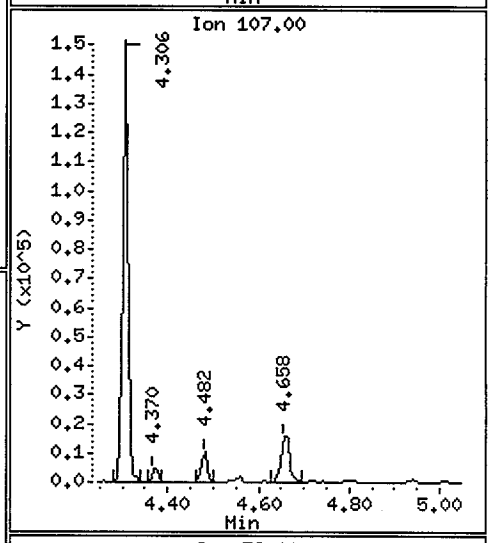


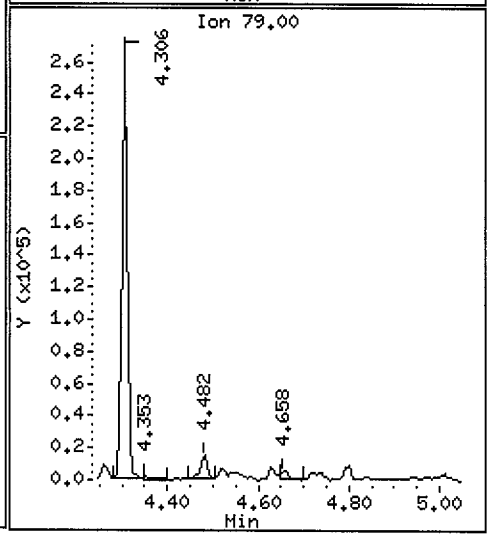












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

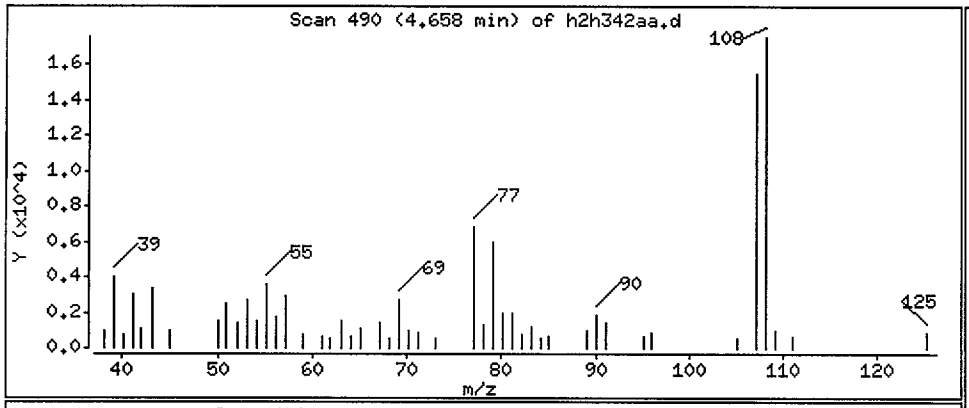
Operator: 60841

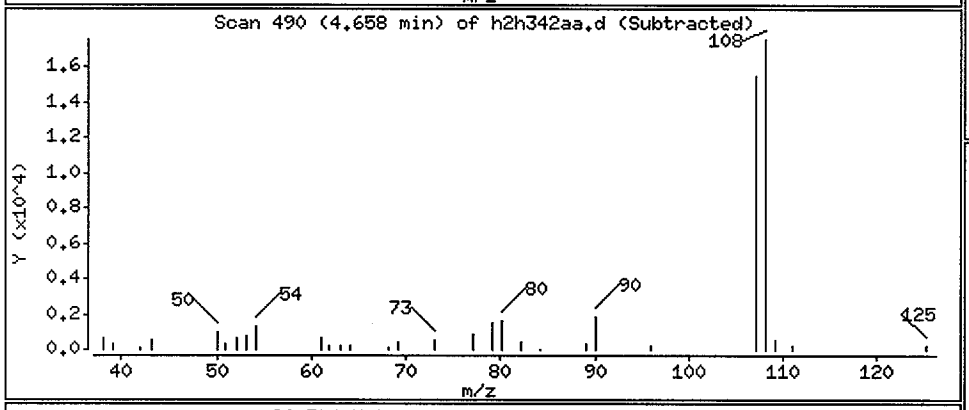
Column phase: ZB-5

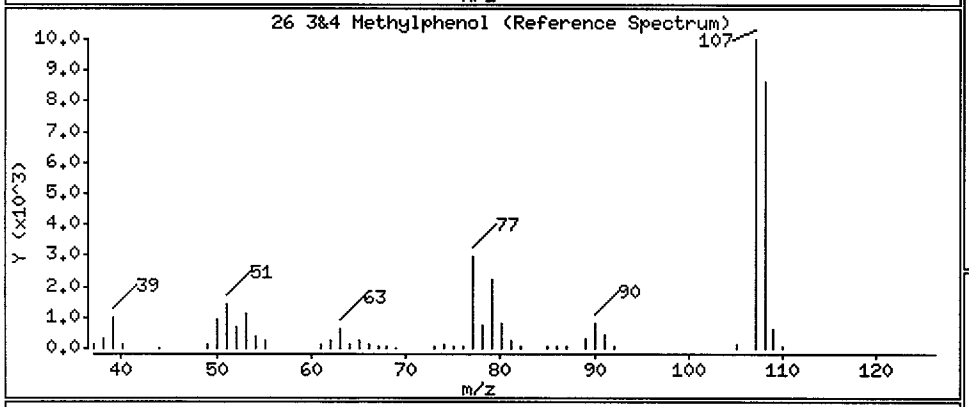
Column diameter: 0.25

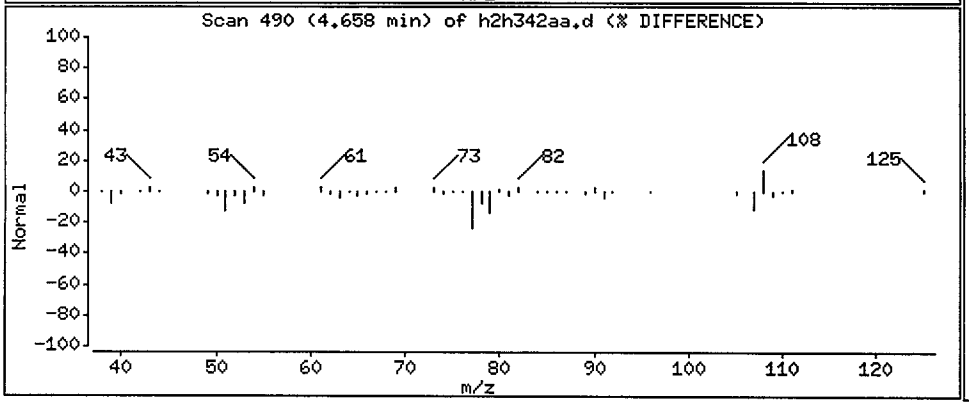
26 3&4 Methylphenol

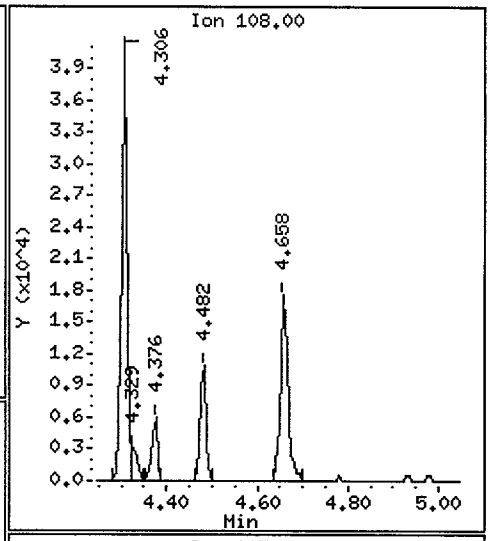
Concentration: 886 ug/Kg

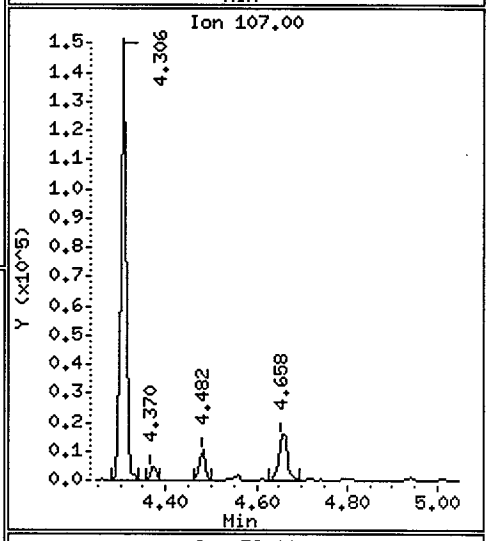


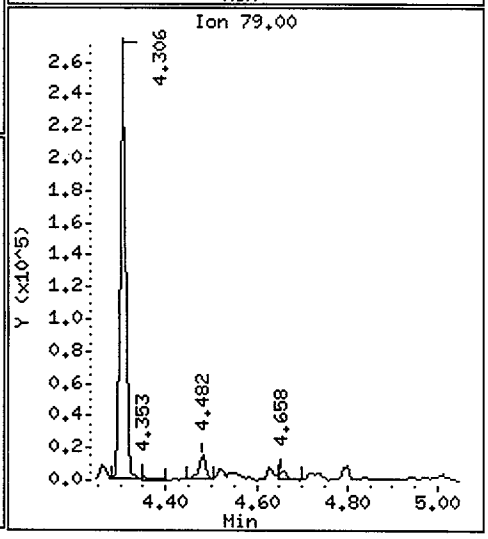












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

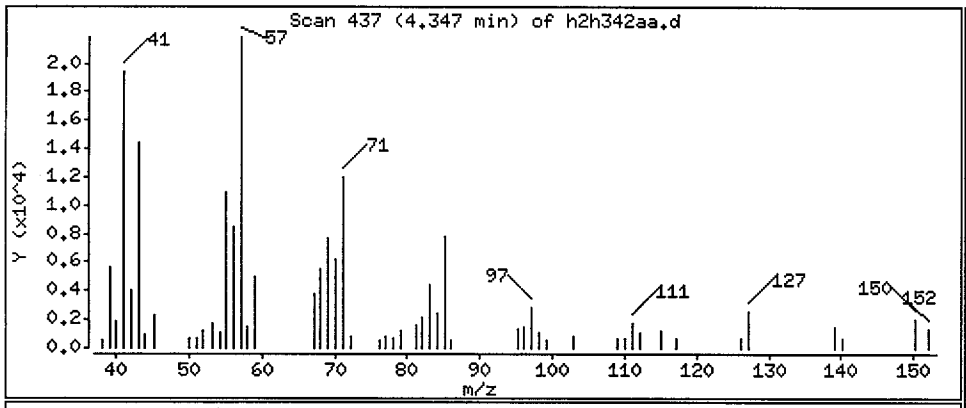
Operator: 60841

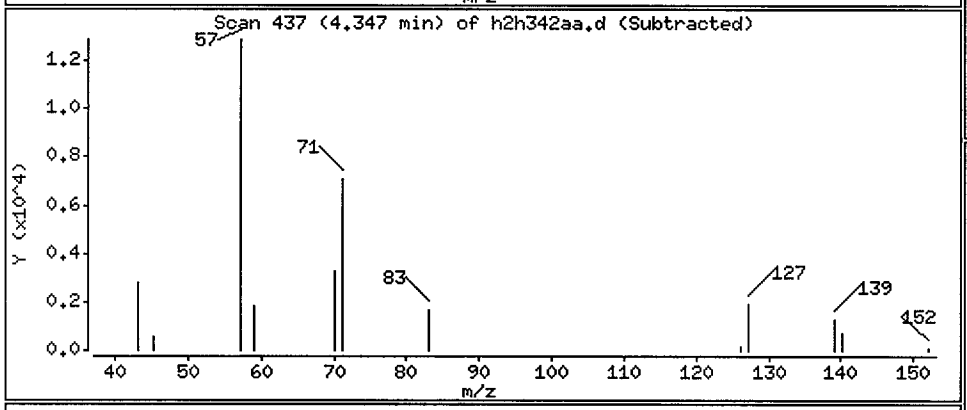
Column phase: ZB-5

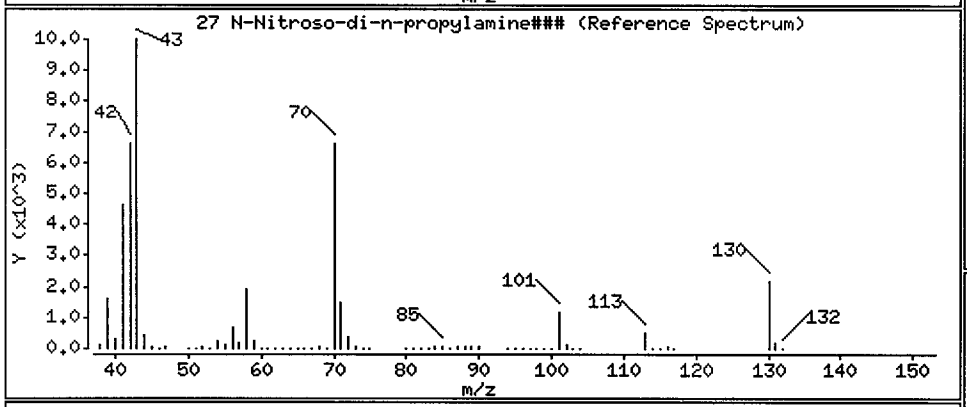
Column diameter: 0.25

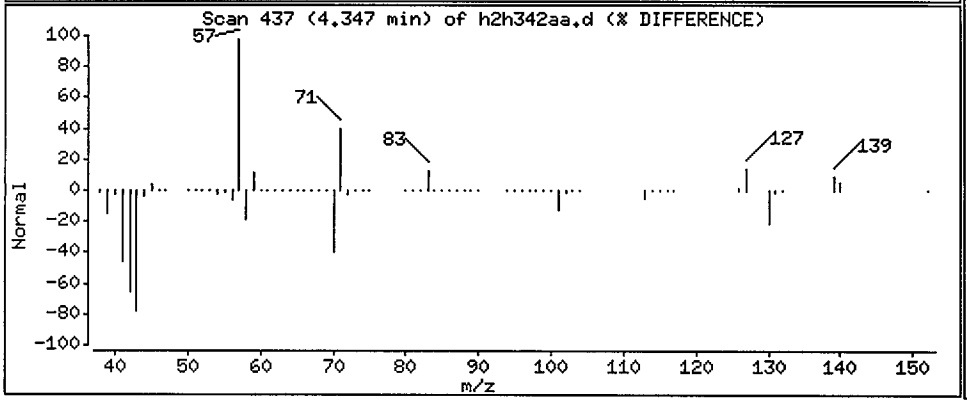
27 N-Nitroso-di-n-propylamine###

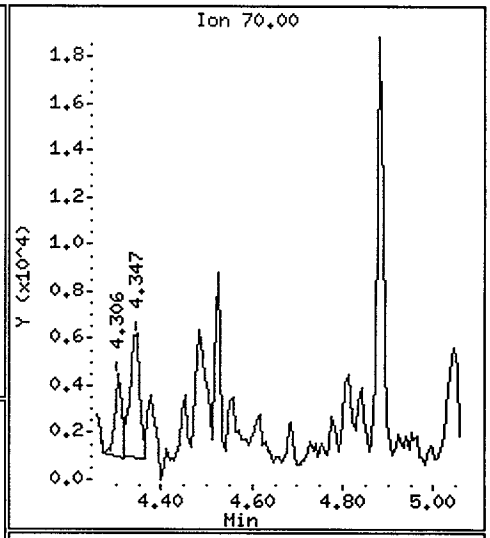
Concentration: 477 ug/Kg

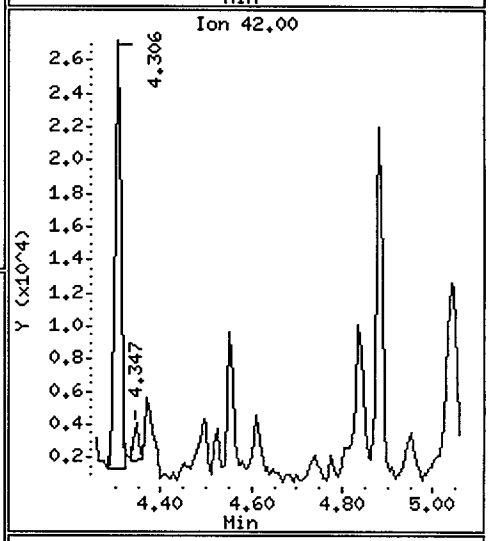


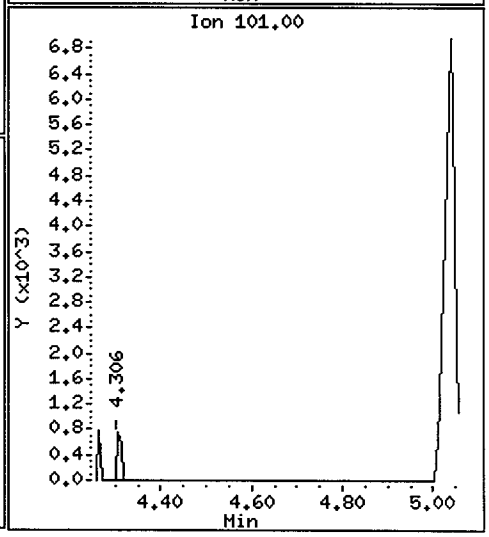












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

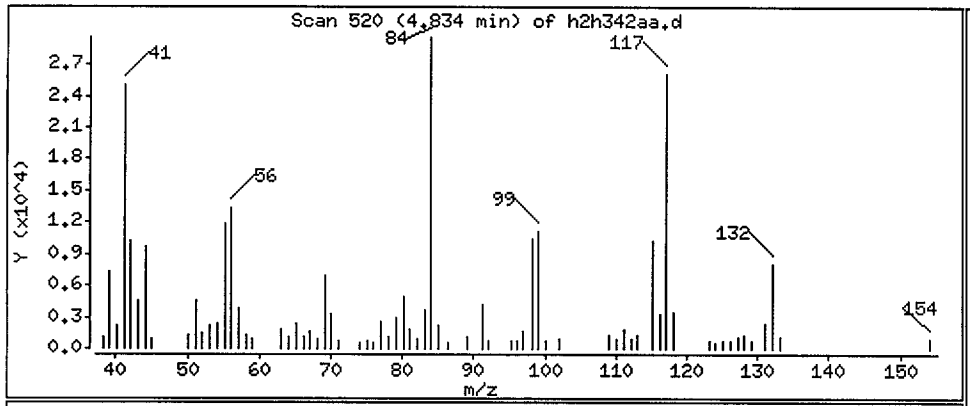
Operator: 60841

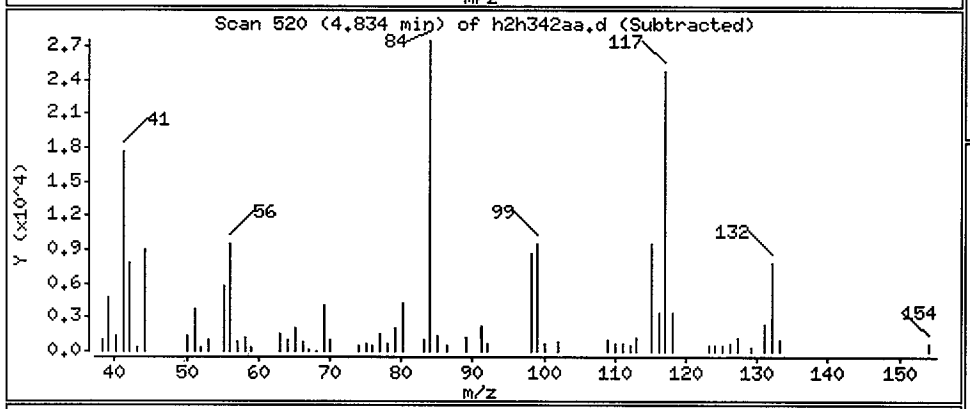
Column phase: ZB-5

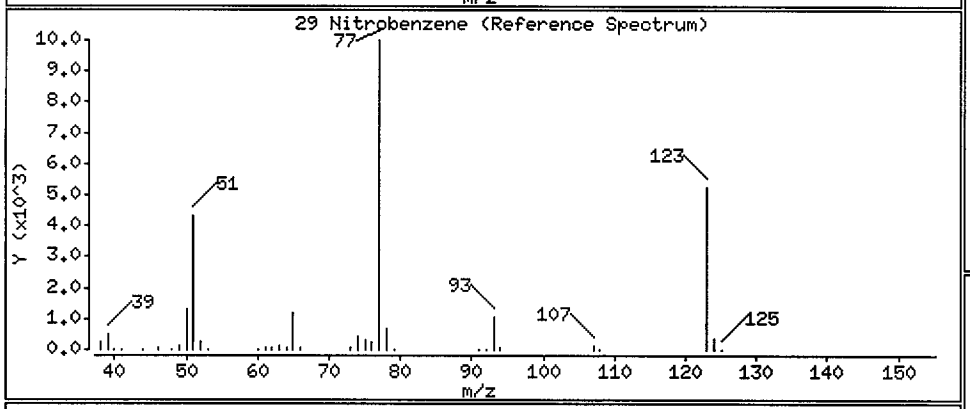
Column diameter: 0.25

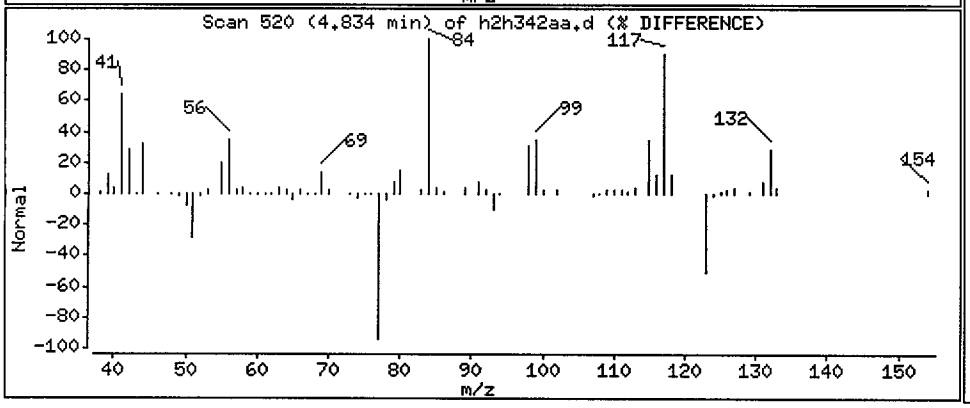
29 Nitrobenzene

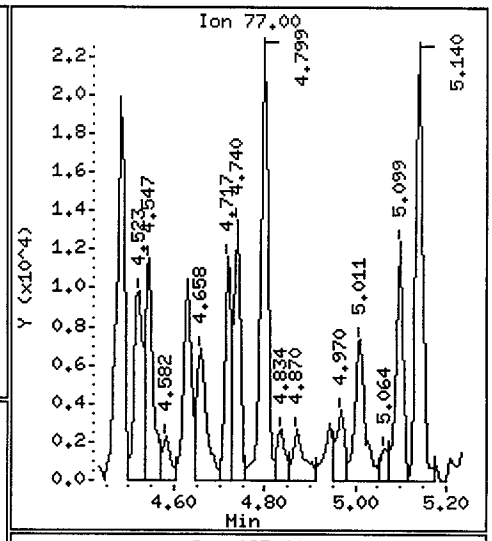
Concentration: 148 ug/Kg

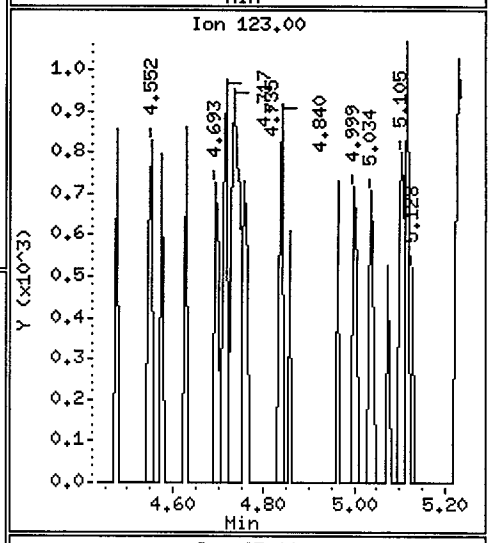


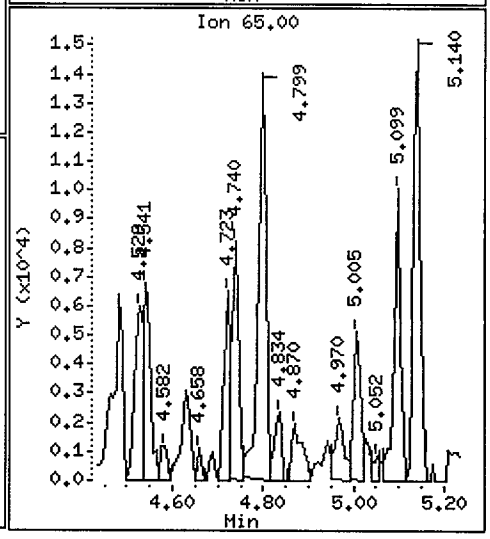












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

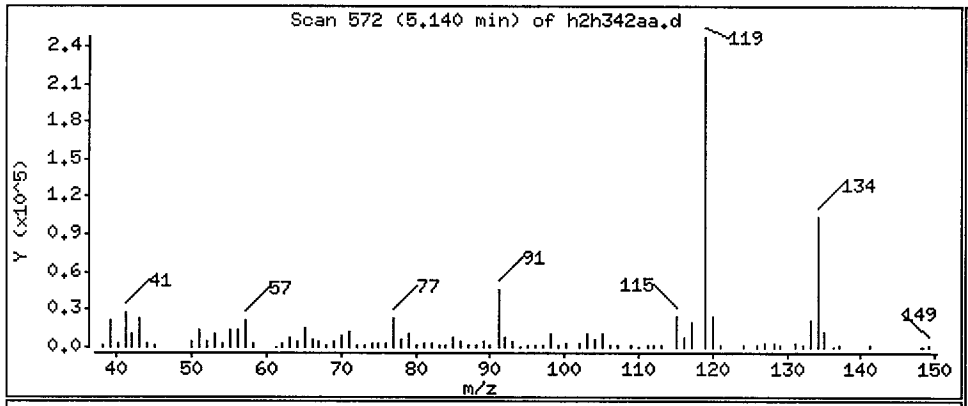
Operator: 60841

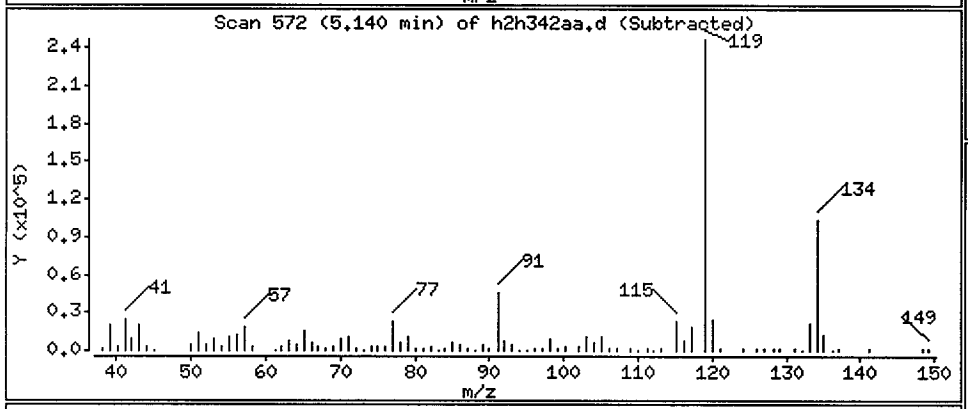
Column phase: ZB-5

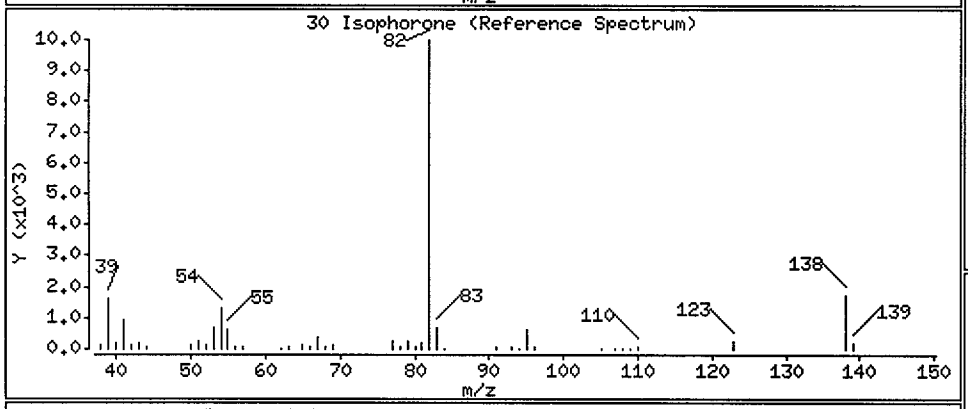
Column diameter: 0.25

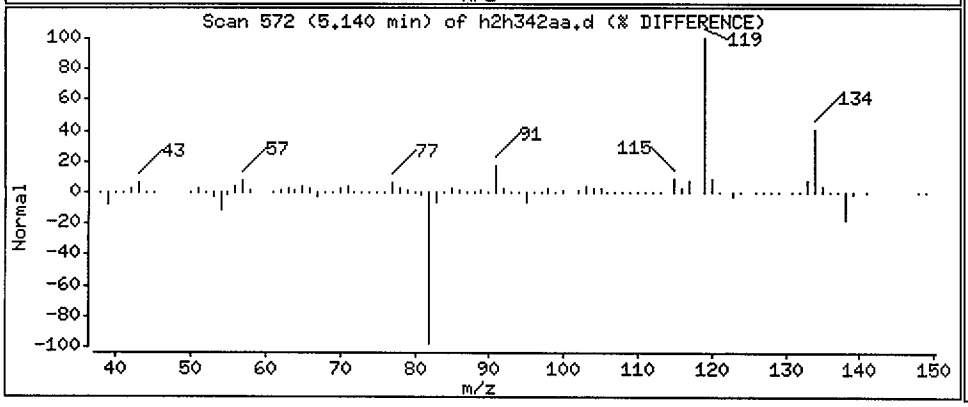
30 Isophorone

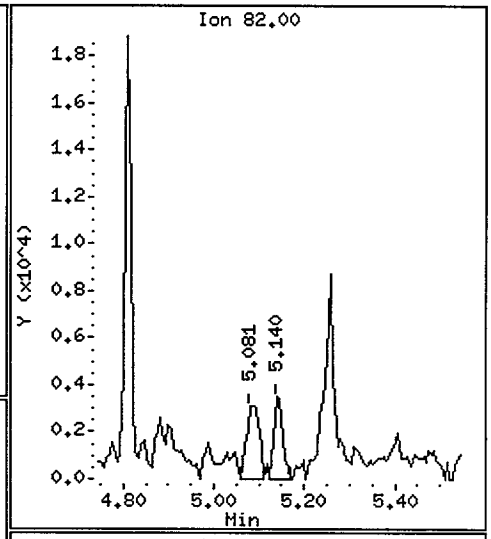
Concentration: 106 ug/Kg

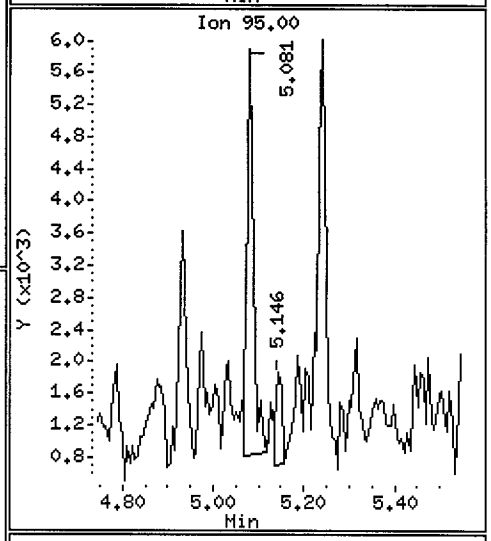


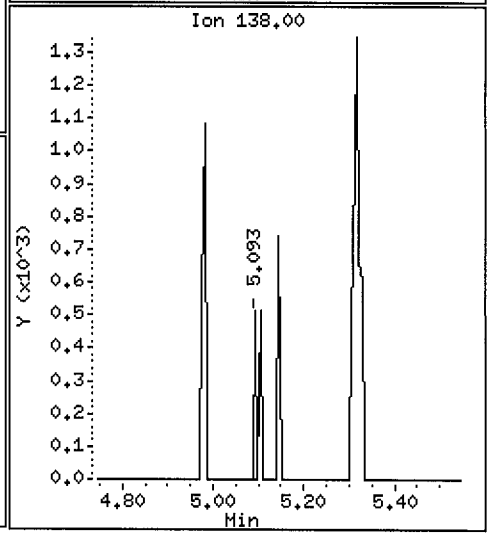












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

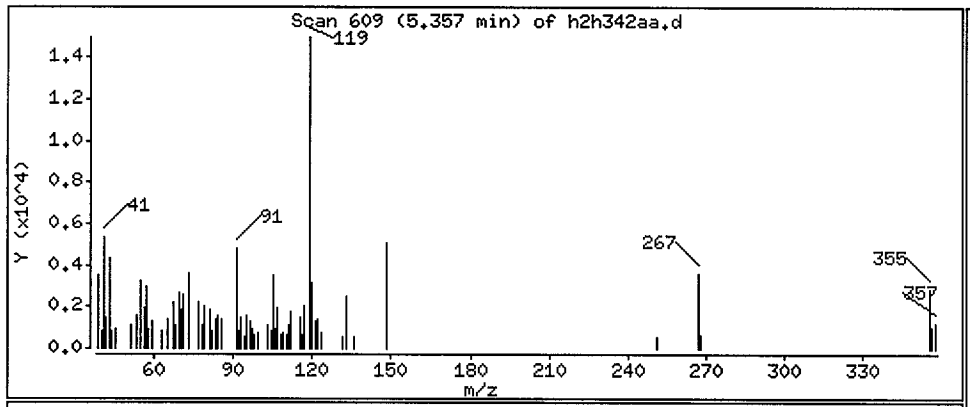
Operator: 60841

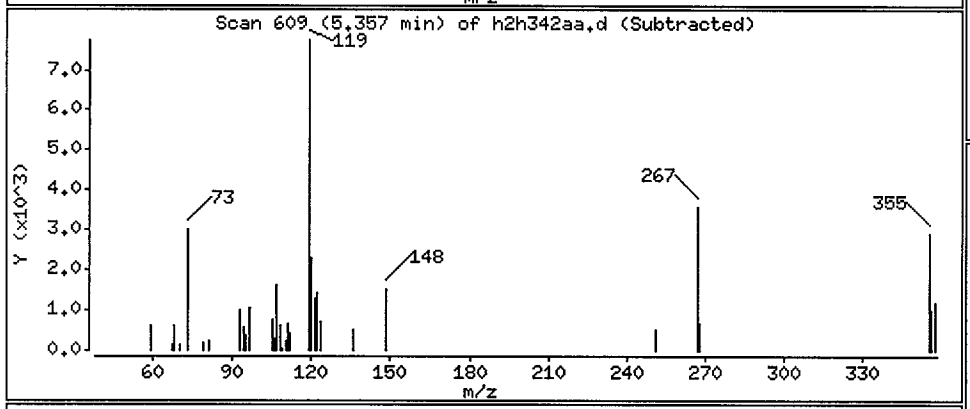
Column phase: ZB-5

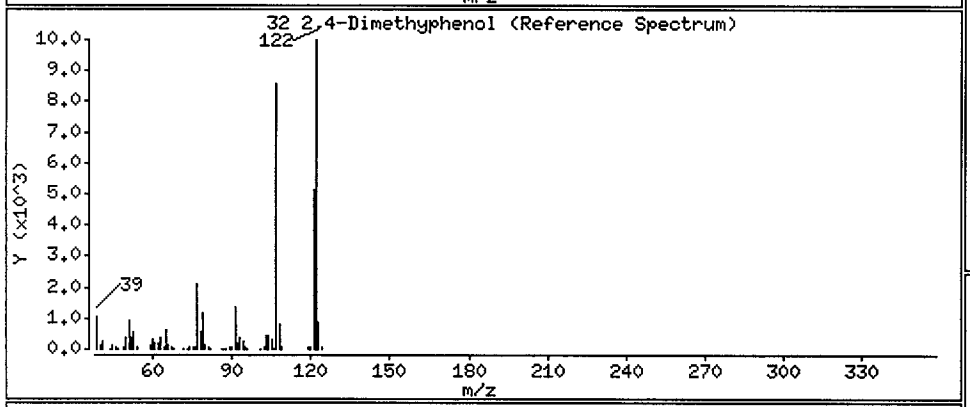
Column diameter: 0.25

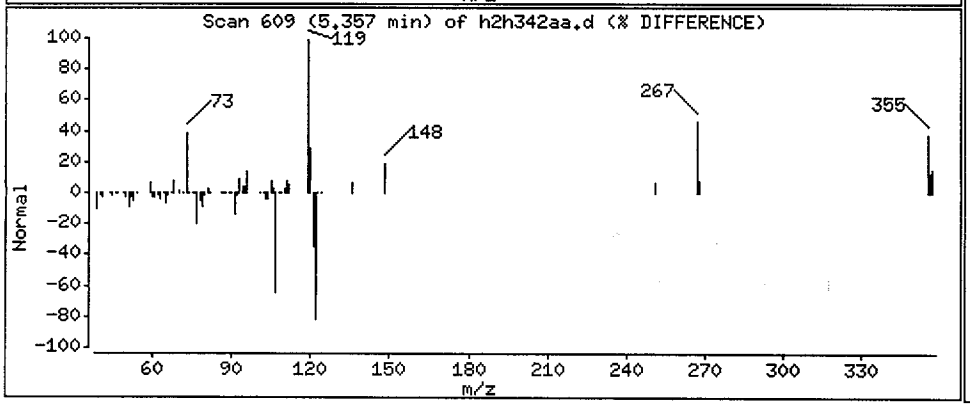
32 2,4-Dimethyphenol

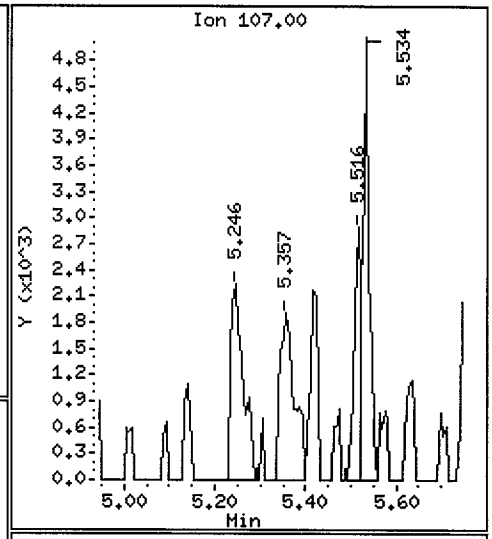
Concentration: 172 ug/Kg

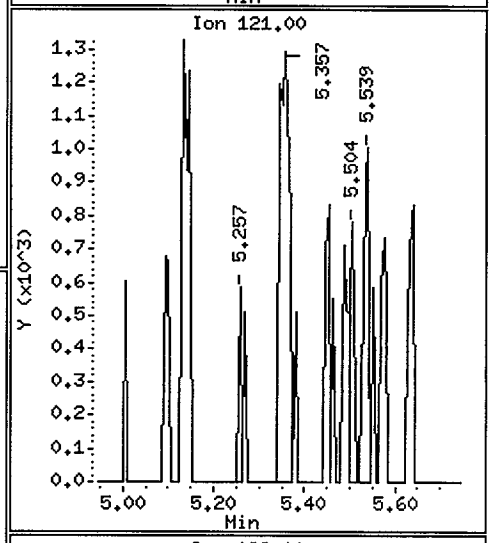


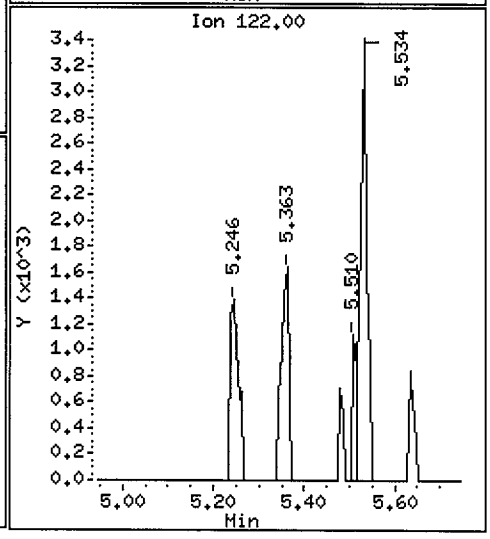












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

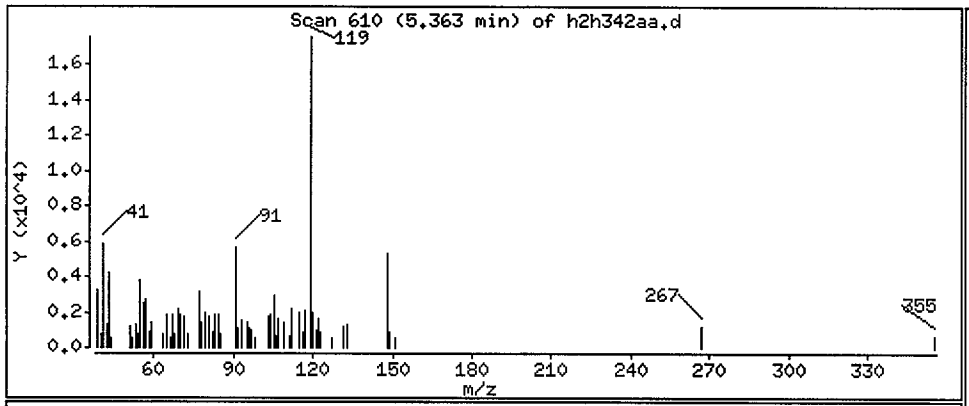
Operator: 60841

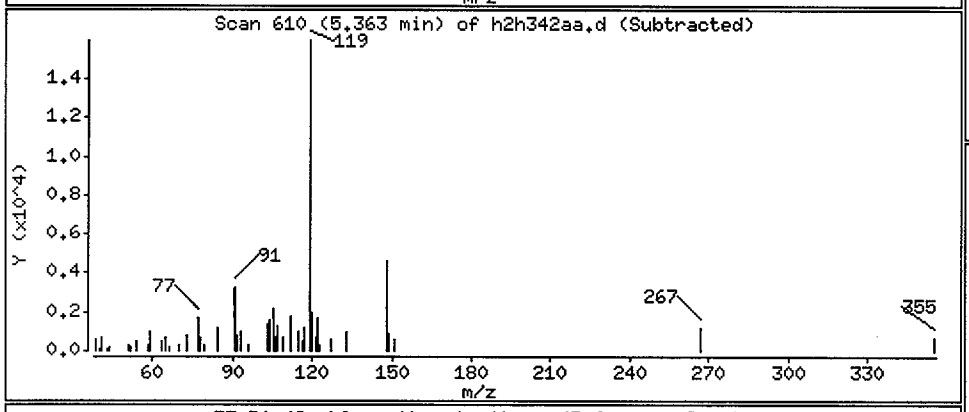
Column phase: ZB-5

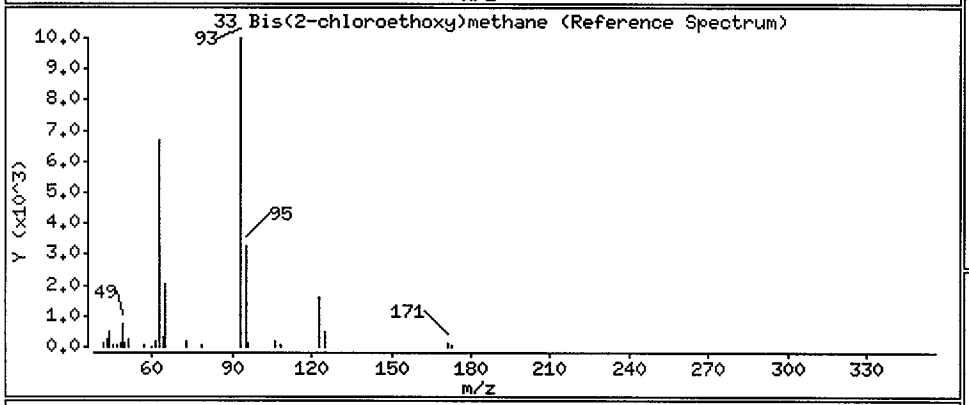
Column diameter: 0.25

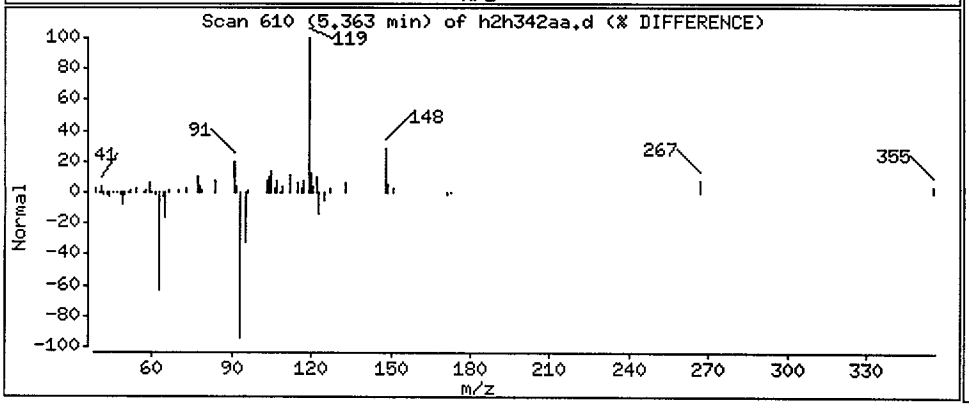
33 Bis(2-chloroethoxy)methane

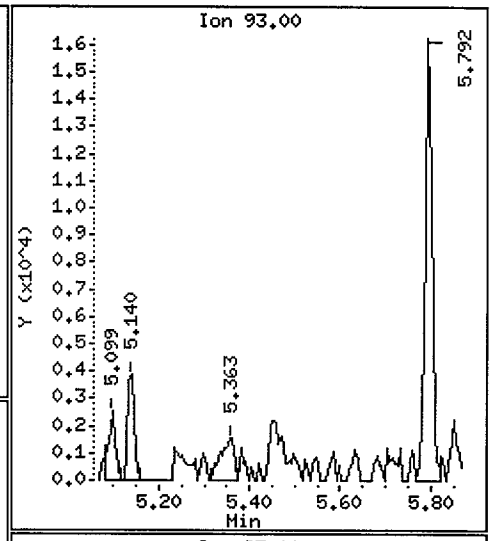
Concentration: 127 ug/Kg

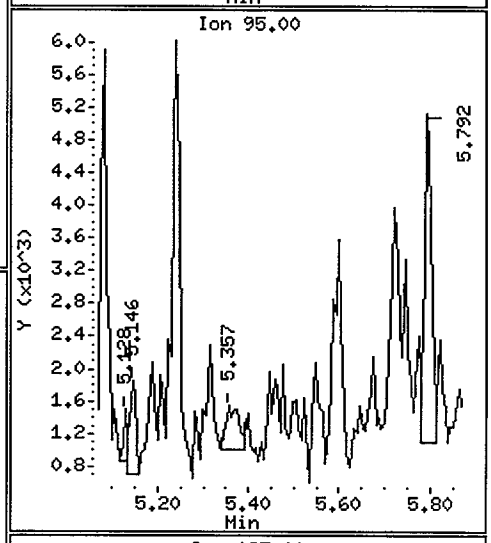


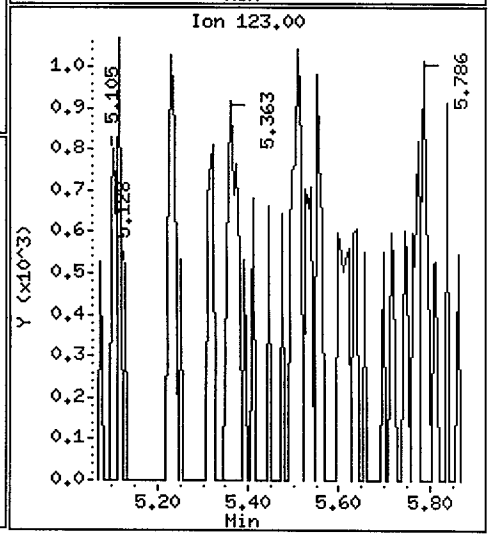












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

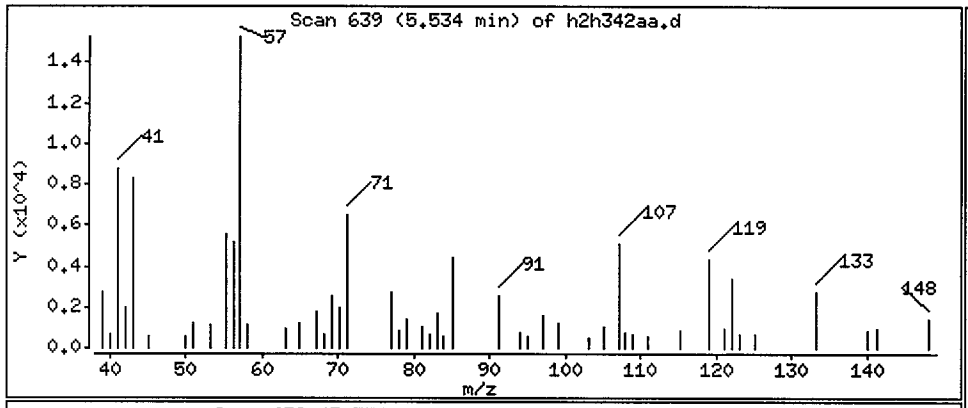
Operator: 60841

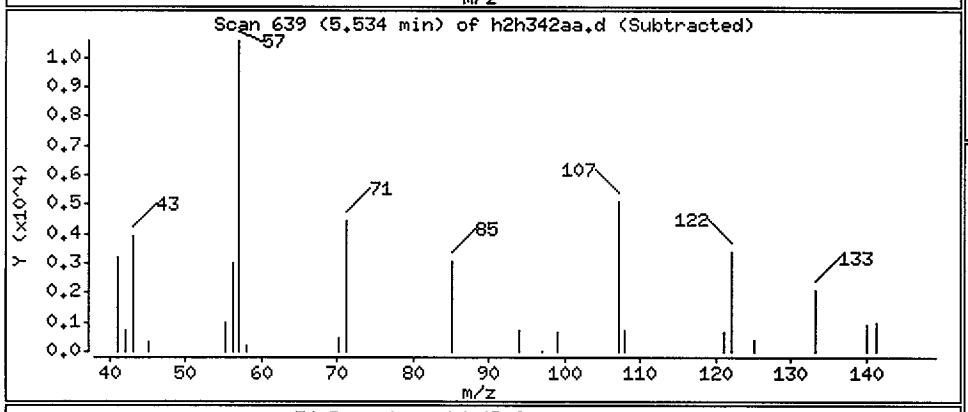
Column phase: ZB-5

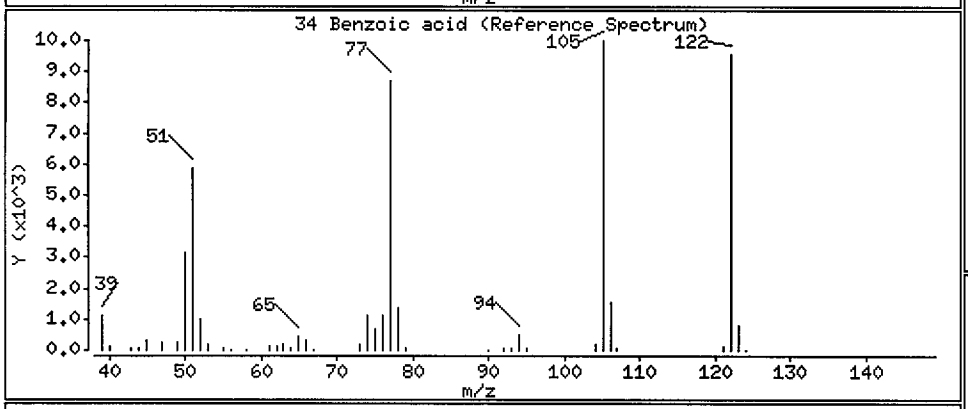
Column diameter: 0.25

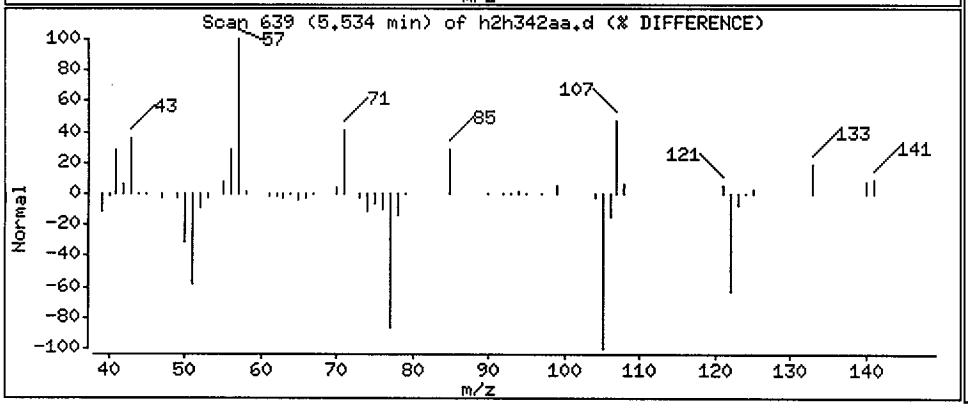
34 Benzoic acid

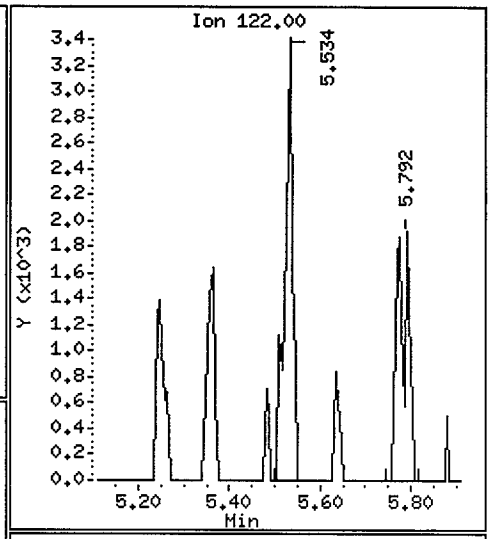
Concentration: 330 ug/Kg

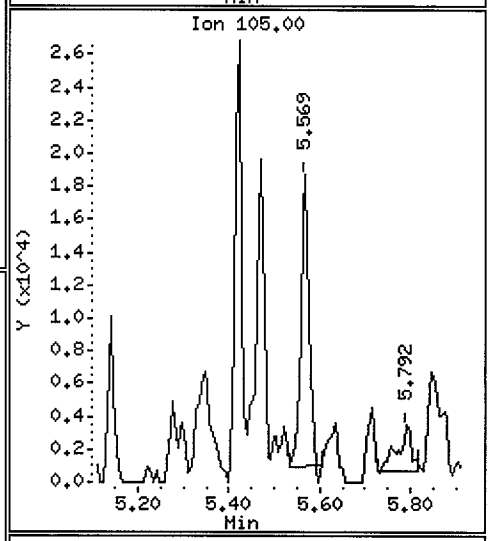


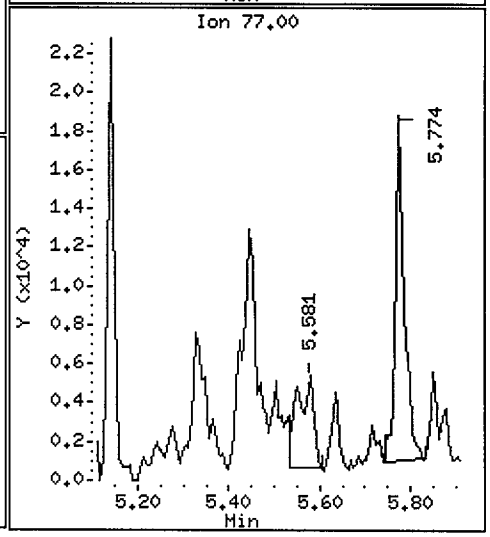












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

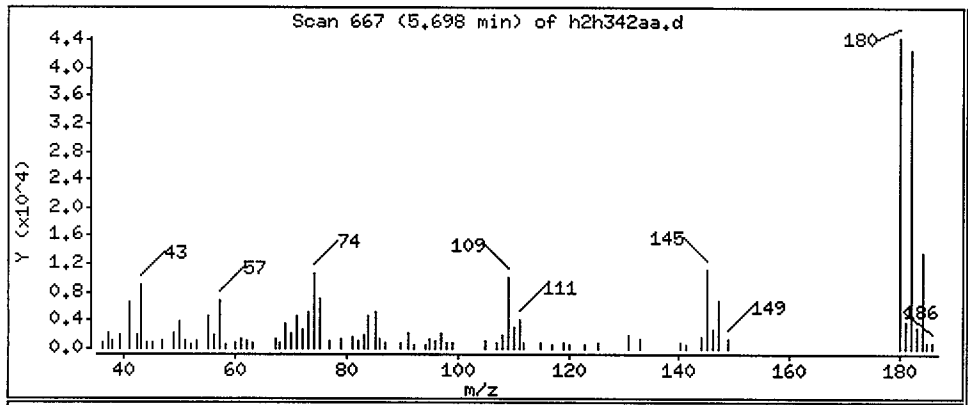
Operator: 60841

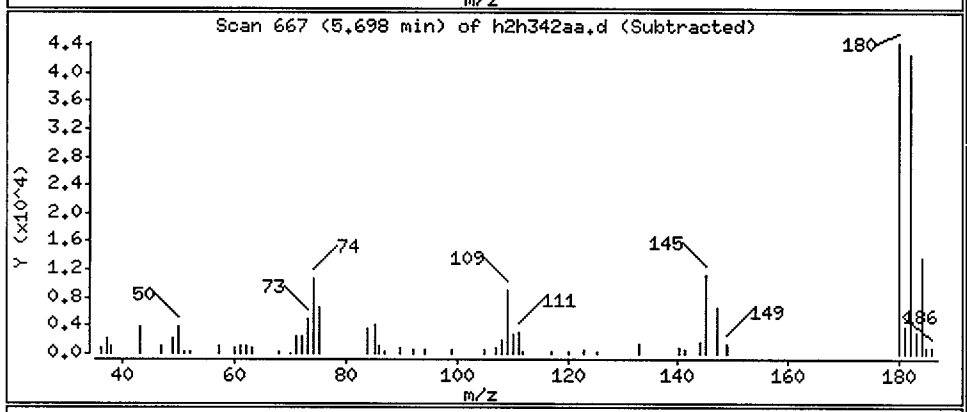
Column phase: ZB-5

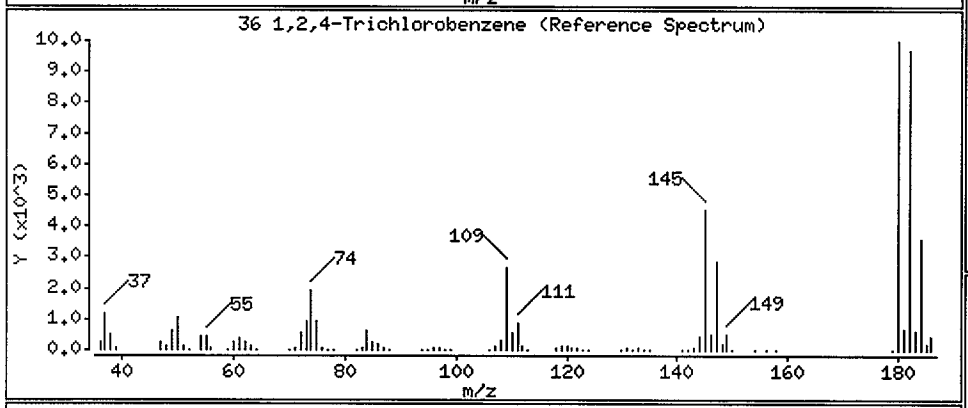
Column diameter: 0.25

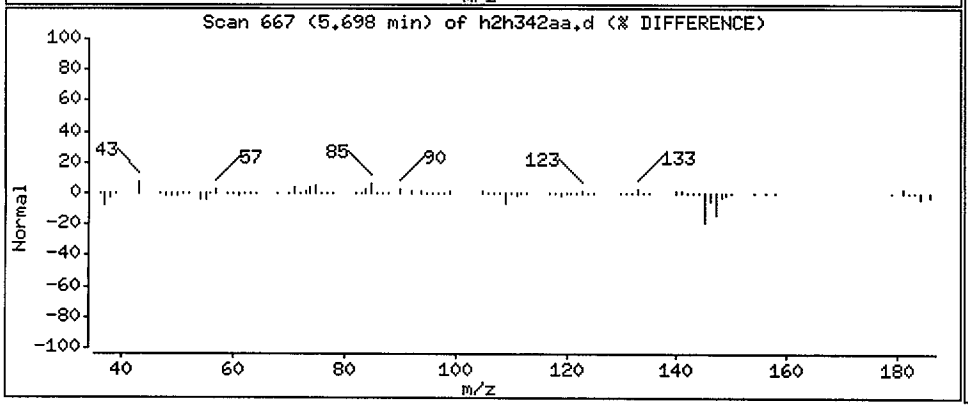
36 1,2,4-Trichlorobenzene

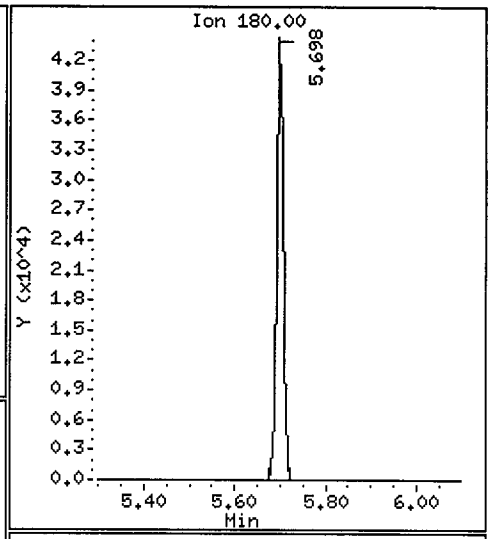
Concentration: 2020 ug/Kg

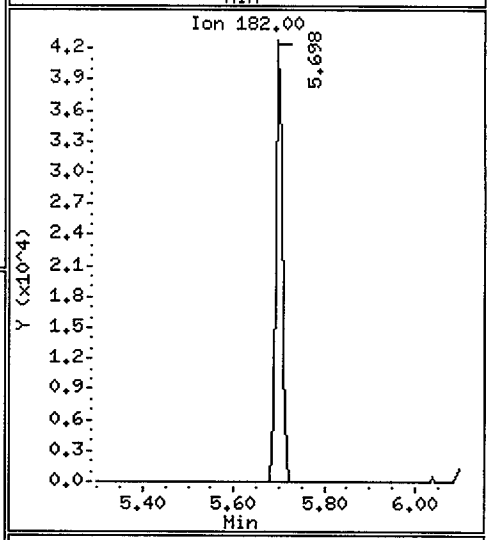


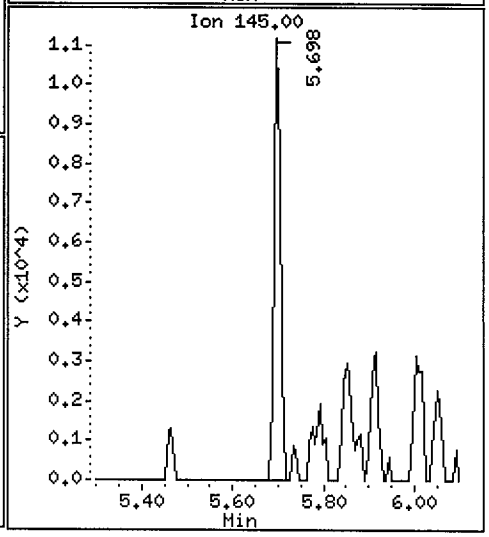












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

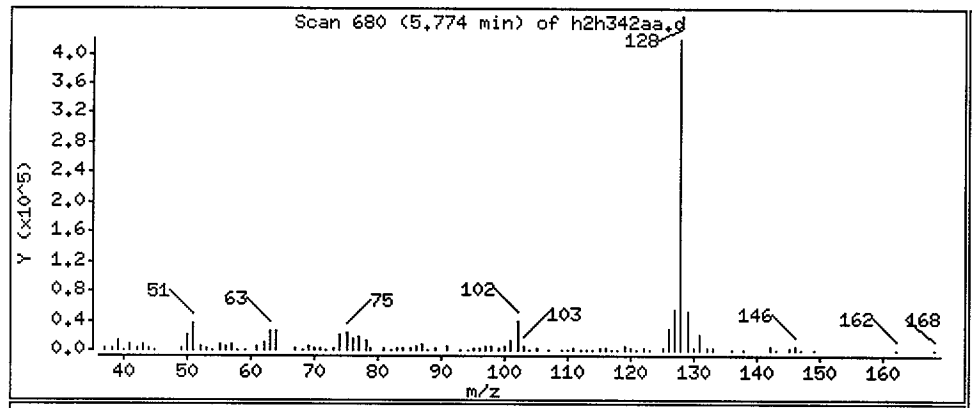
Operator: 60841

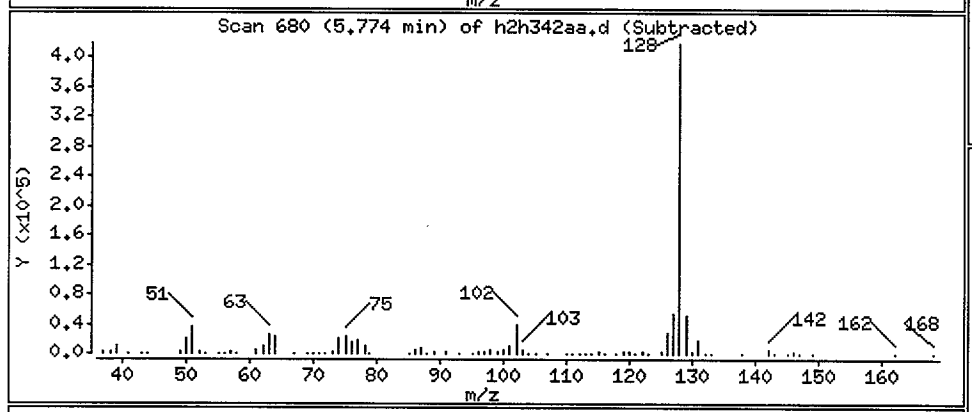
Column phase: ZB-5

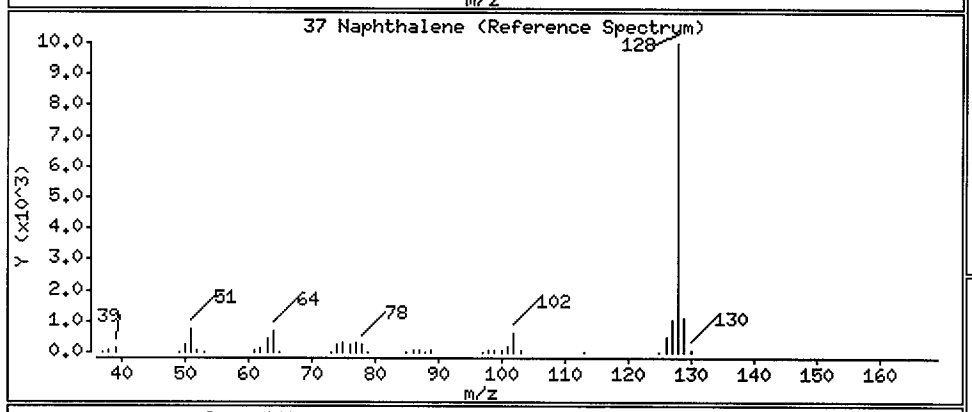
Column diameter: 0.25

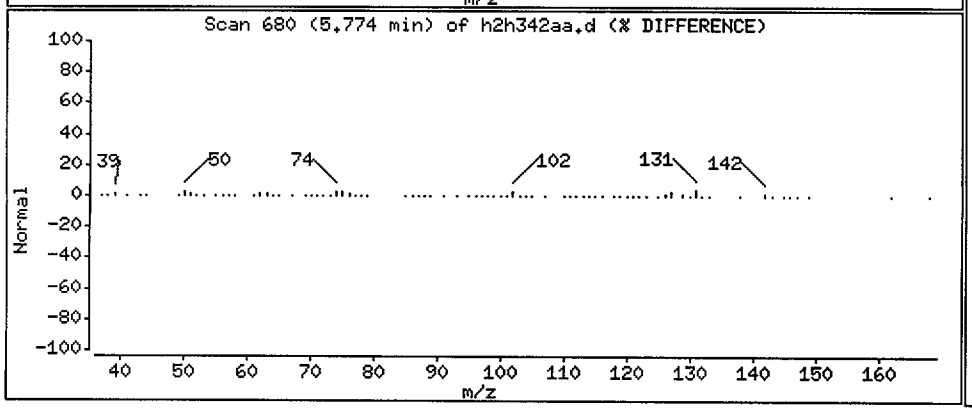
37 Naphthalene

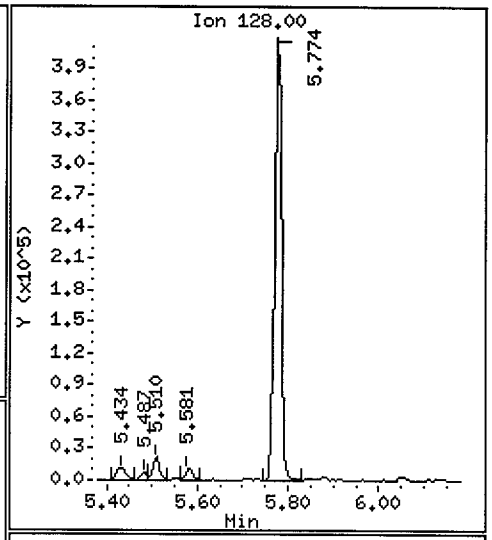
Concentration: 6510 ug/Kg

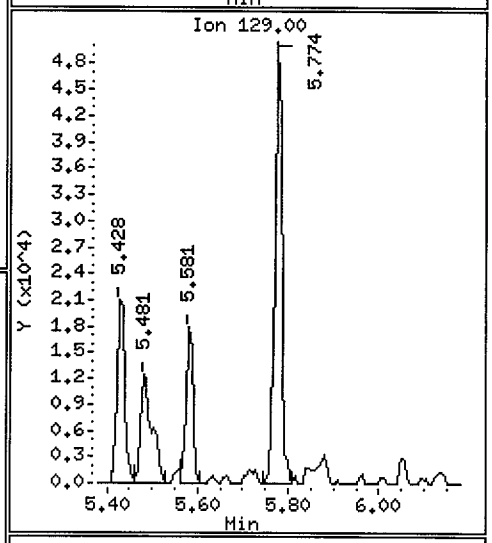


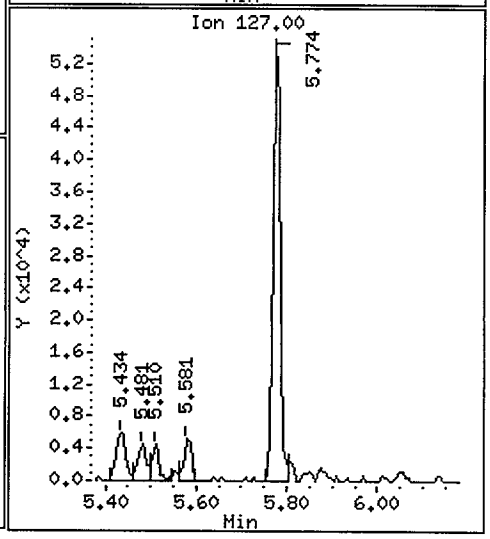












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

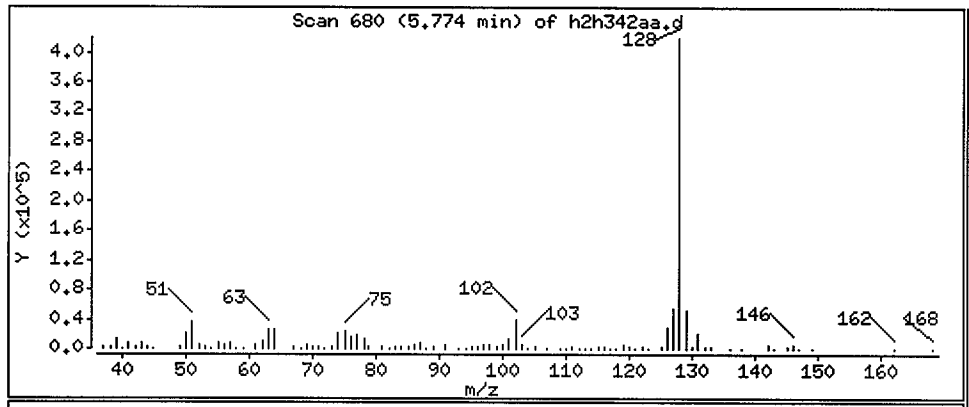
Operator: 60841

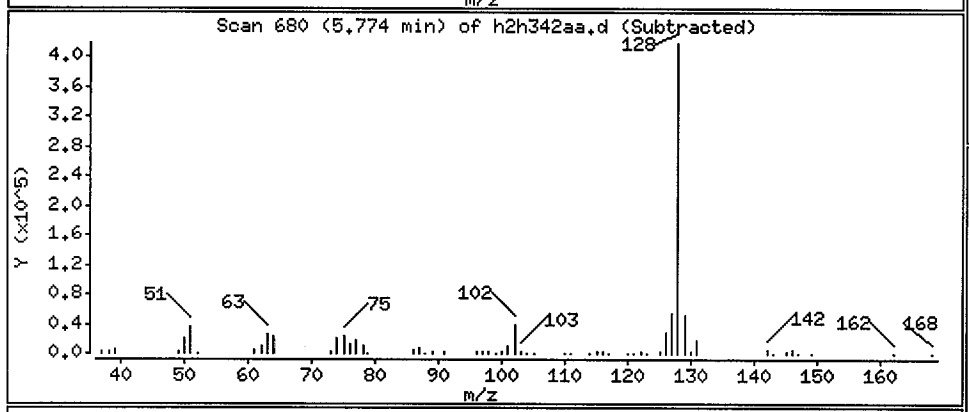
Column phase: ZB-5

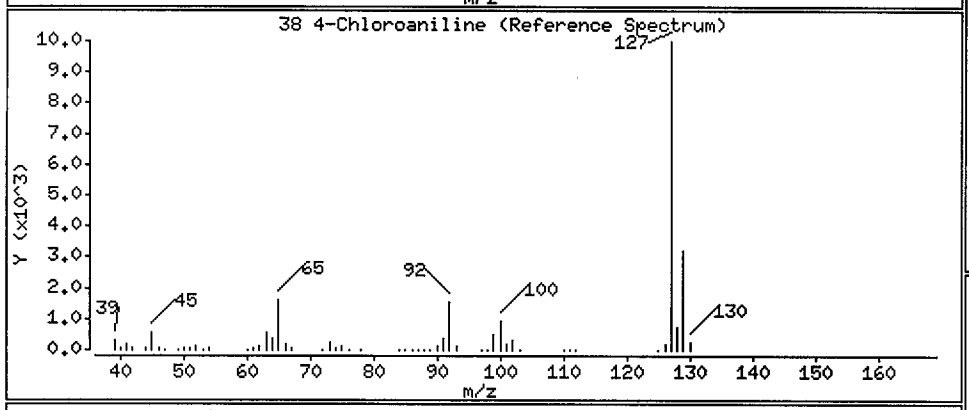
Column diameter: 0.25

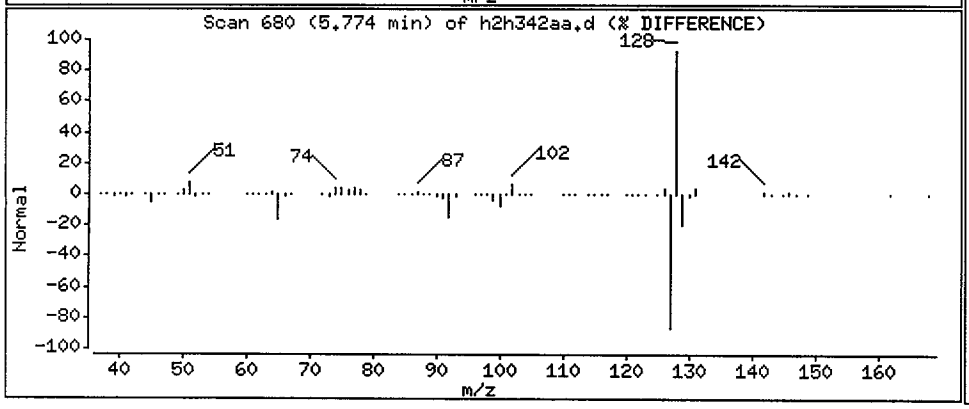
38 4-Chloroaniline

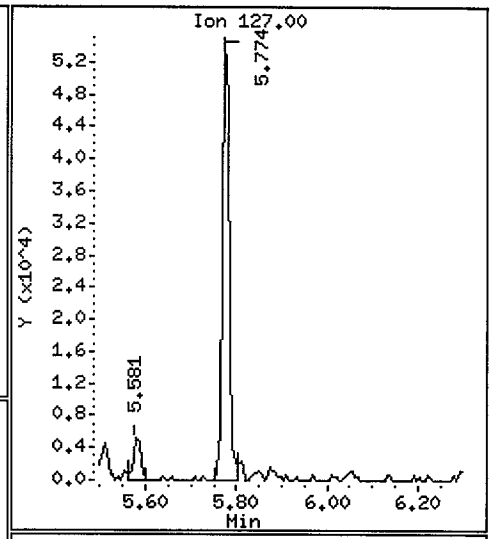
Concentration: 2060 ug/Kg

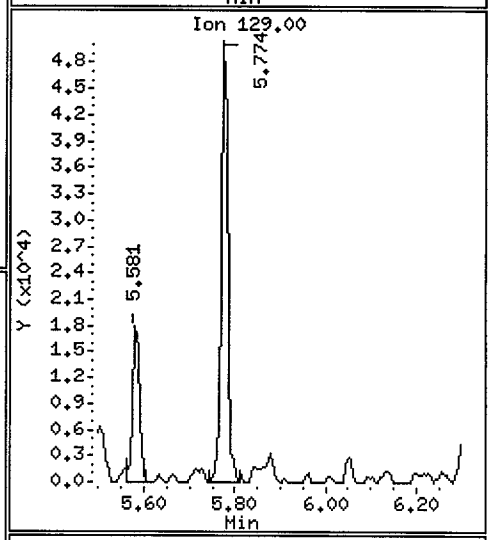


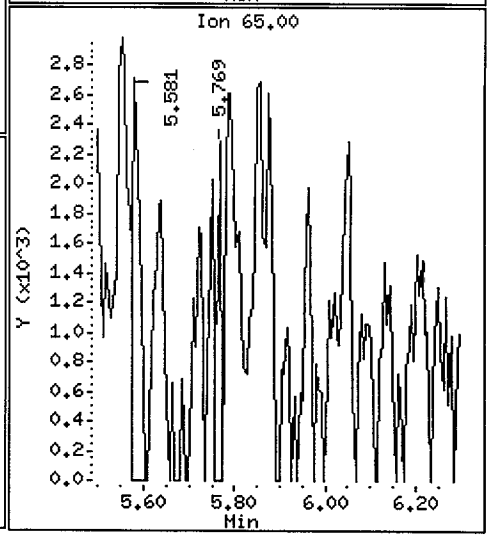












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

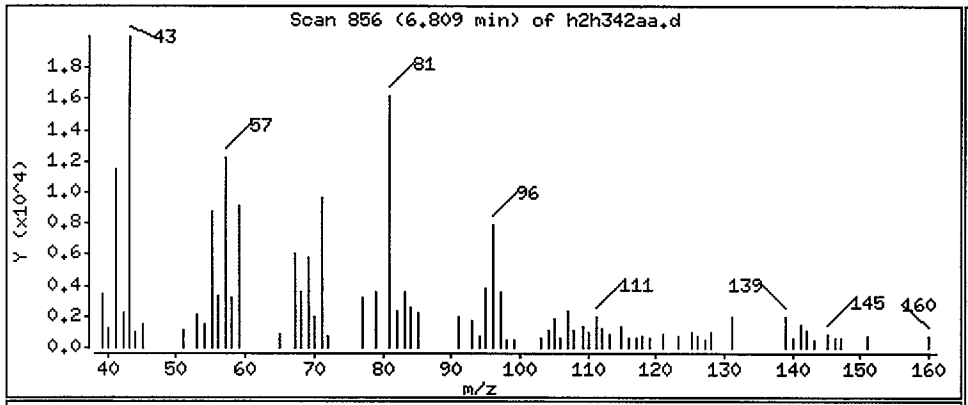
Operator: 60841

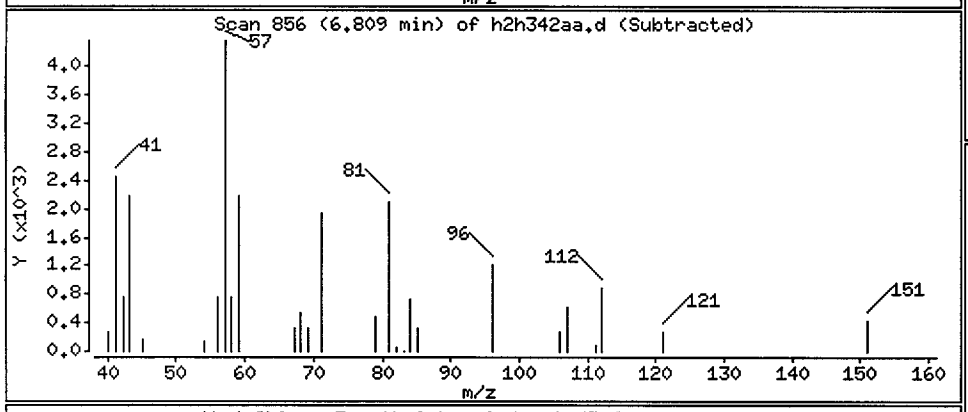
Column phase: ZB-5

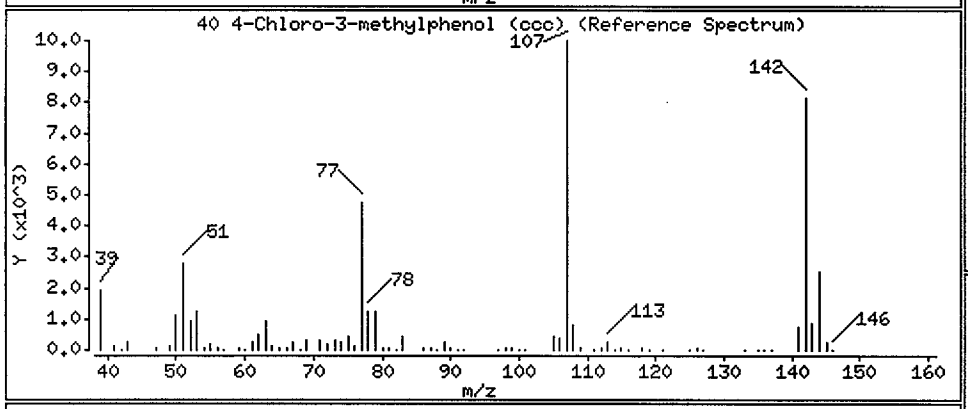
Column diameter: 0.25

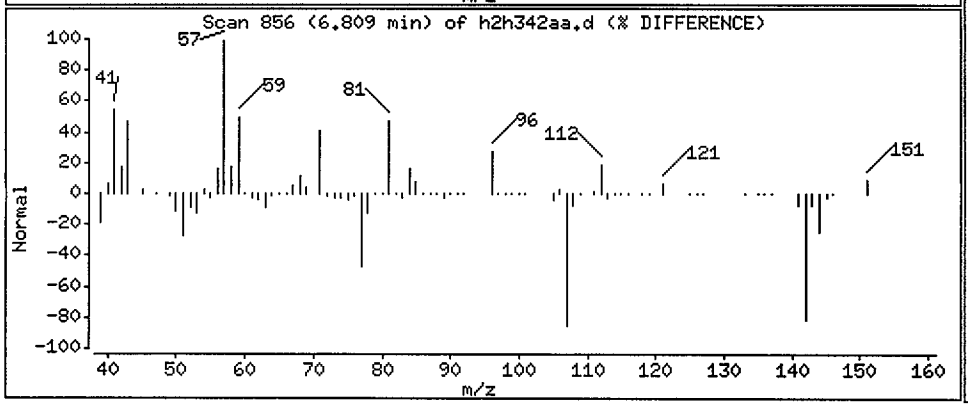
40 4-Chloro-3-methylphenol (ccc)

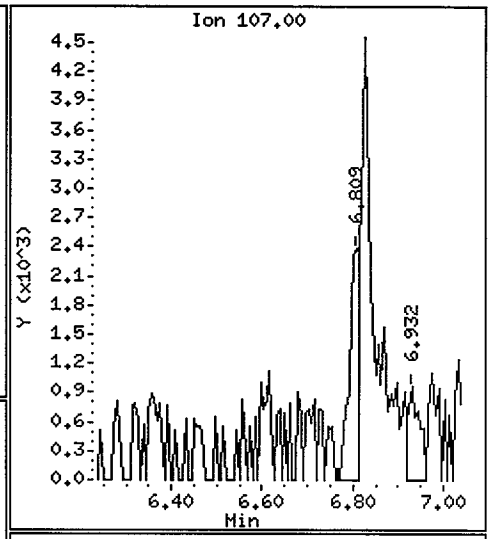
Concentration: 189 ug/Kg

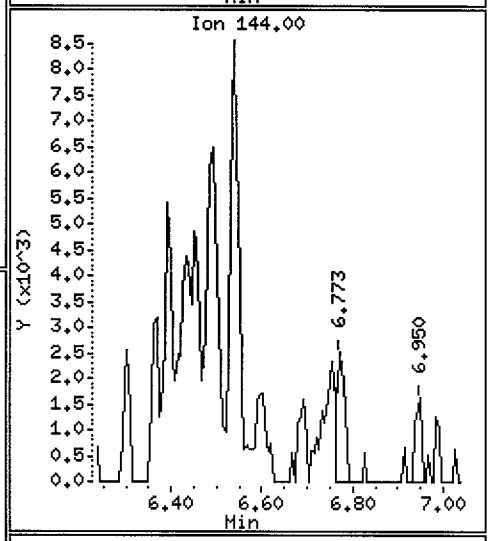


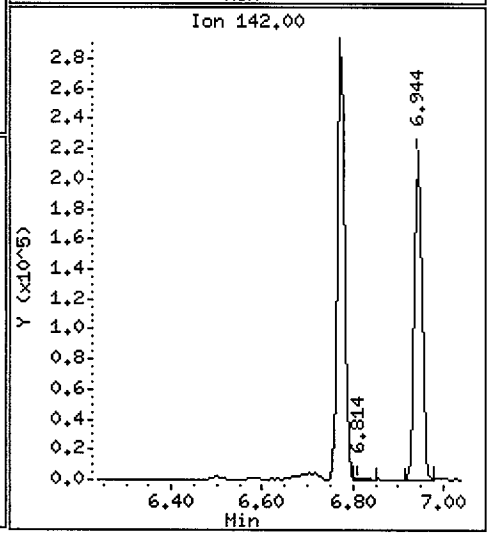












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

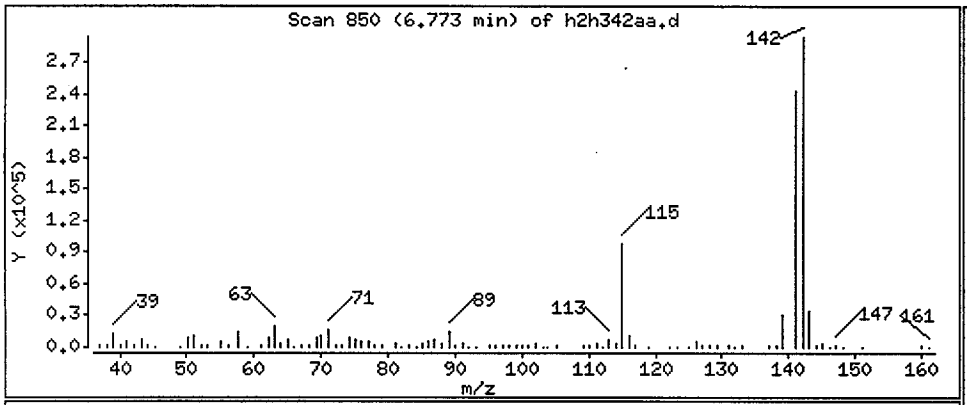
Operator: 60841

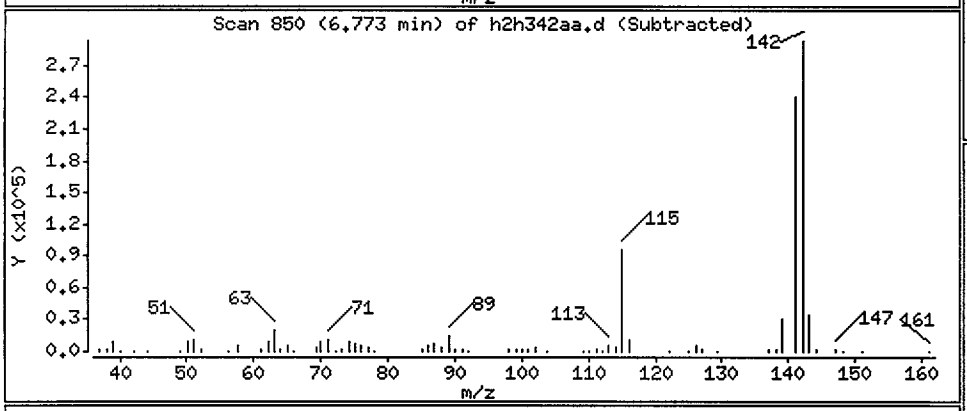
Column phase: ZB-5

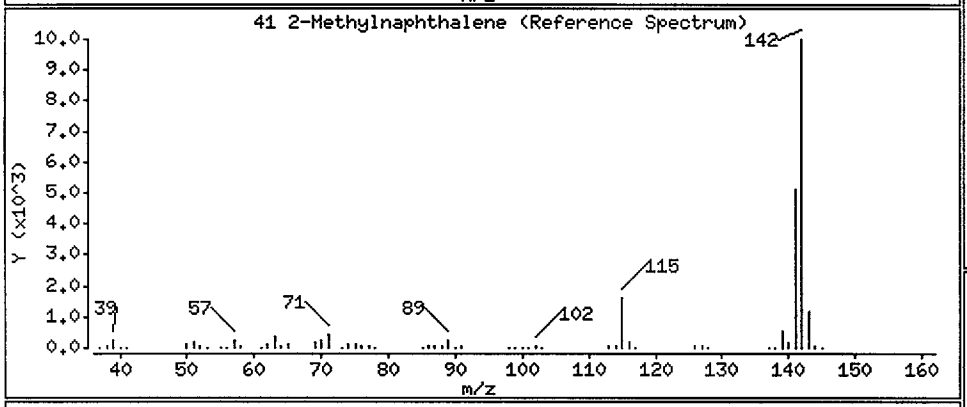
Column diameter: 0.25

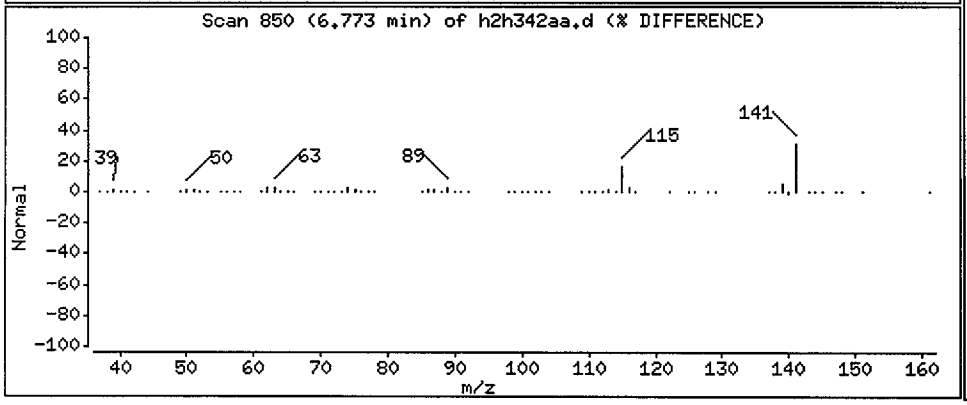
41 2-Methylnaphthalene

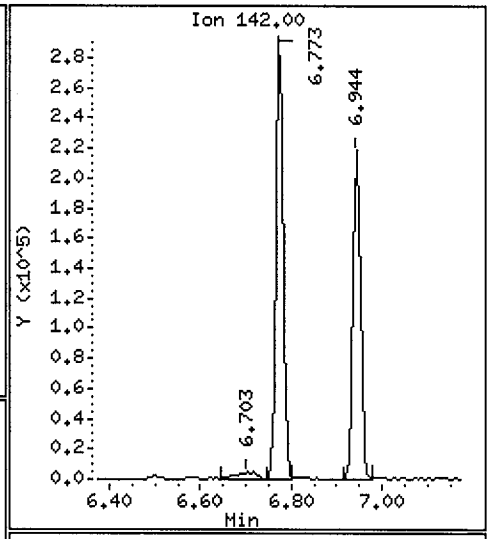
Concentration: 7700 ug/Kg

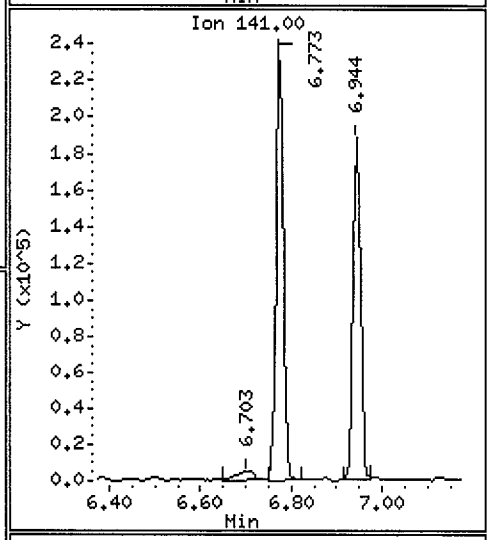


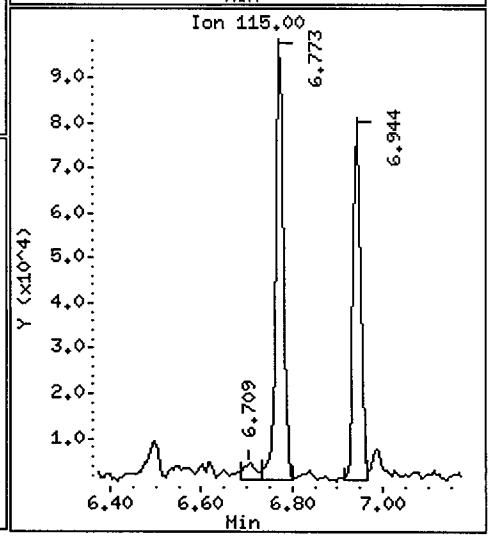












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

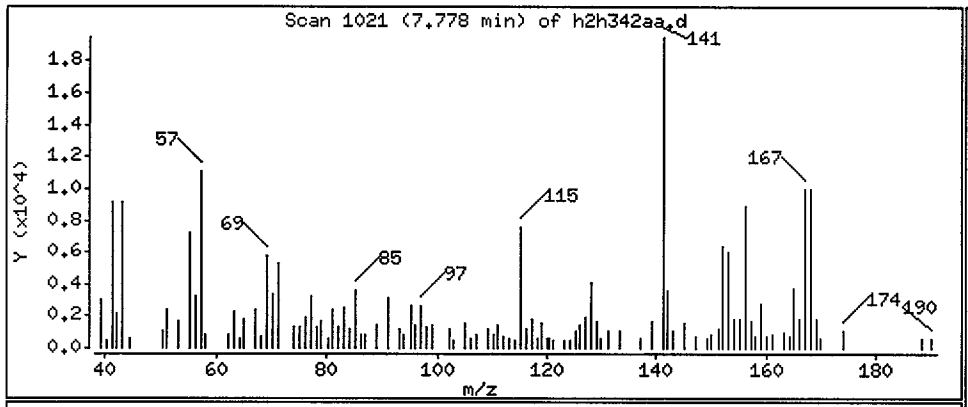
Operator: 60841

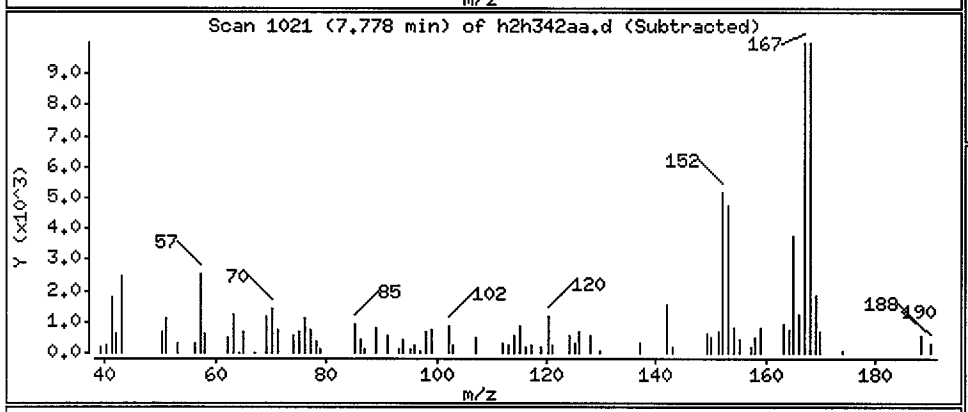
Column phase: ZB-5

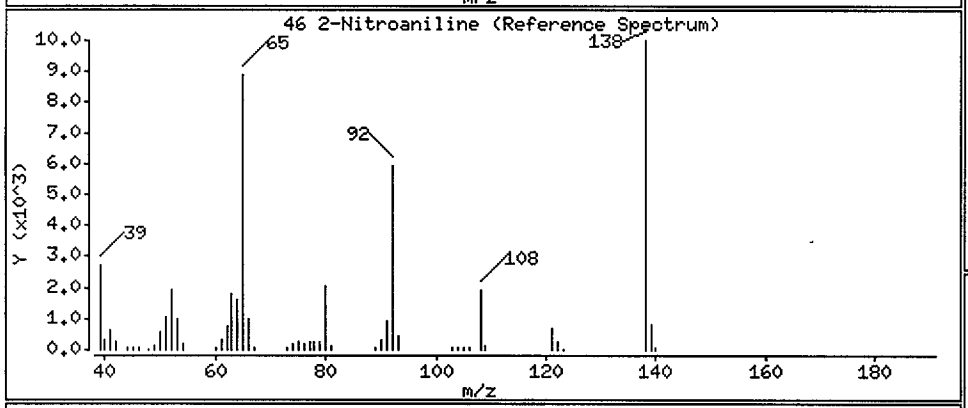
Column diameter: 0.25

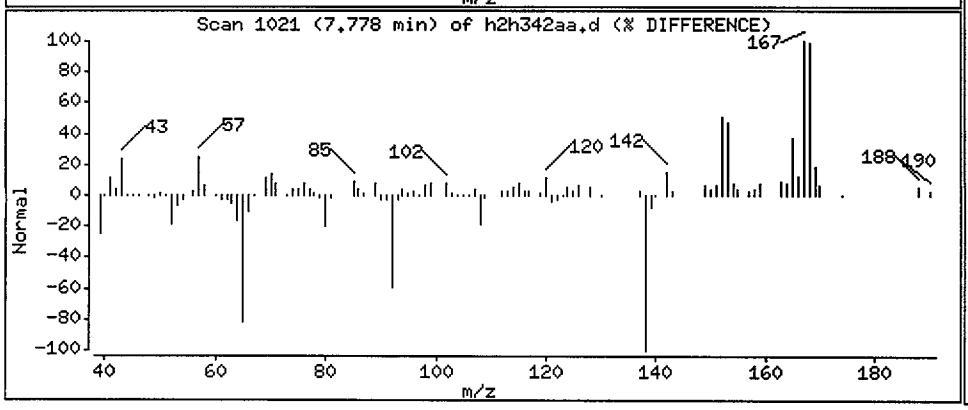
46 2-Nitroaniline

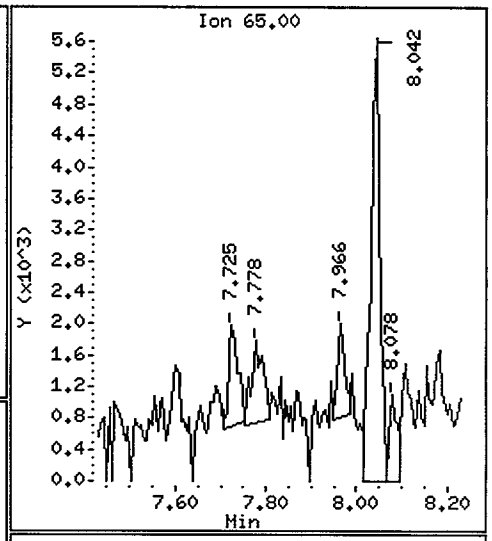
Concentration: 132 ug/Kg

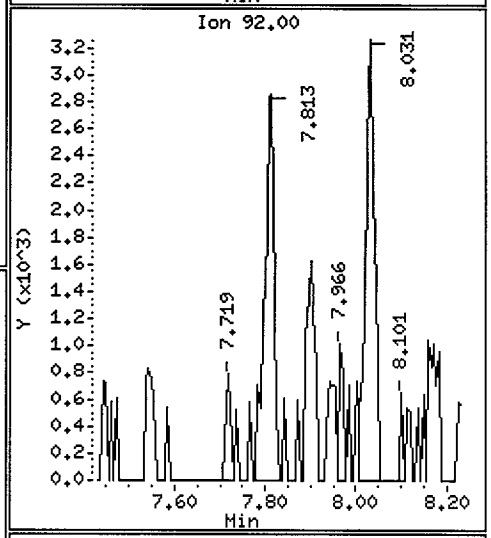


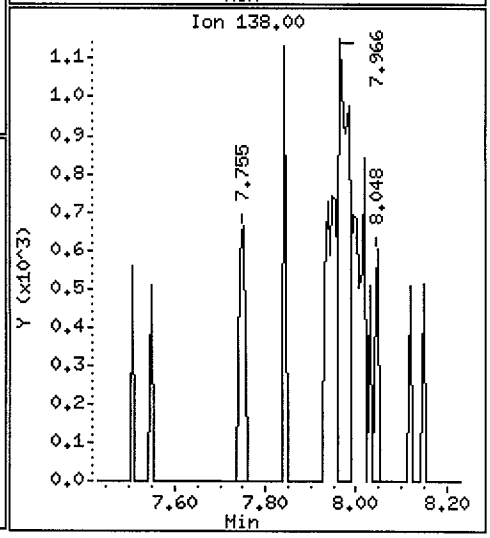












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

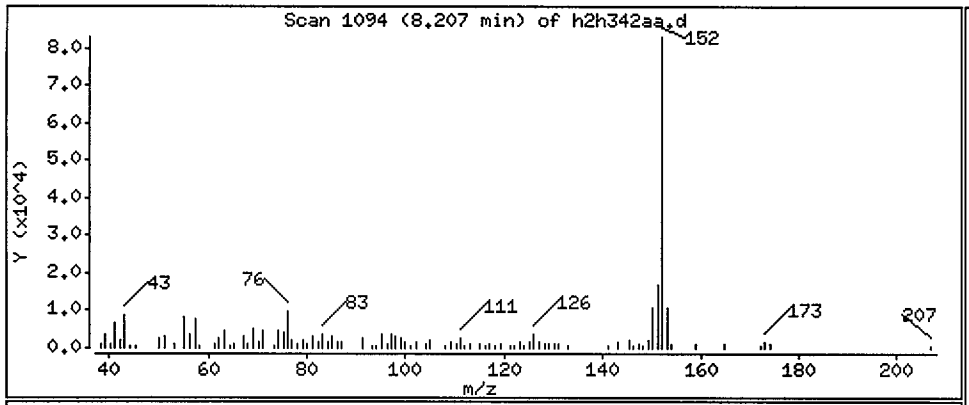
Operator: 60841

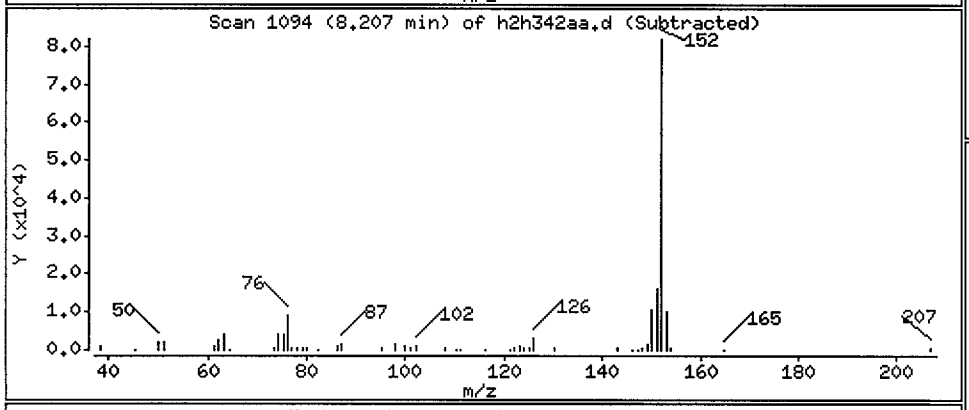
Column phase: ZB-5

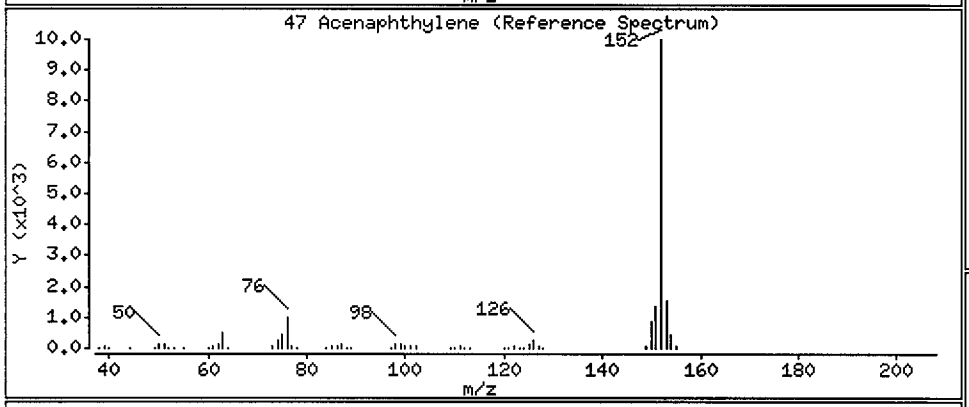
Column diameter: 0.25

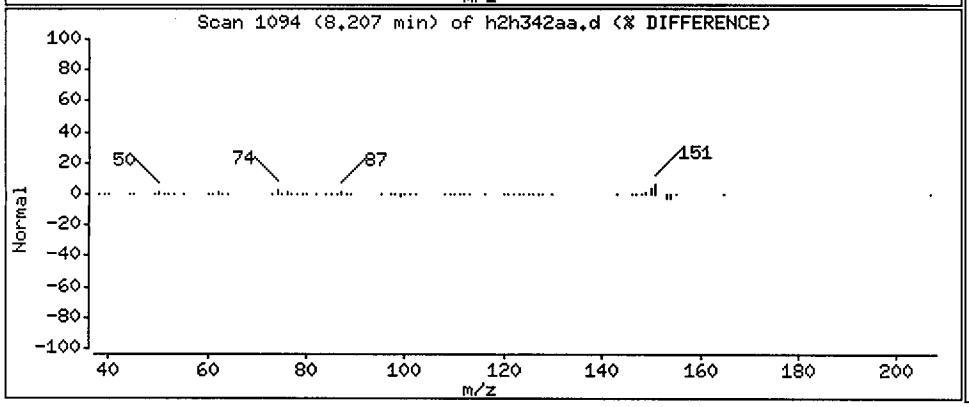
47 Acenaphthylene

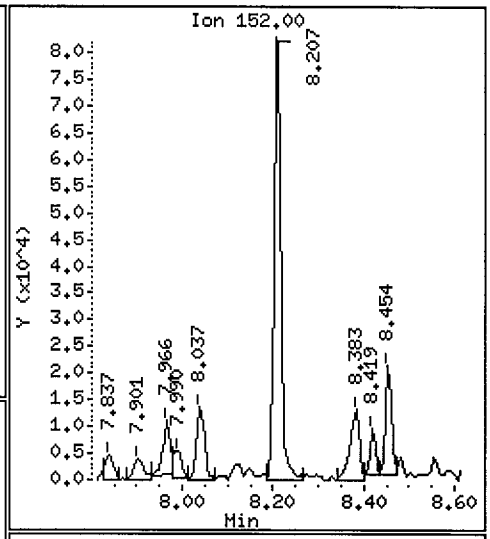
Concentration: 1260 ug/Kg

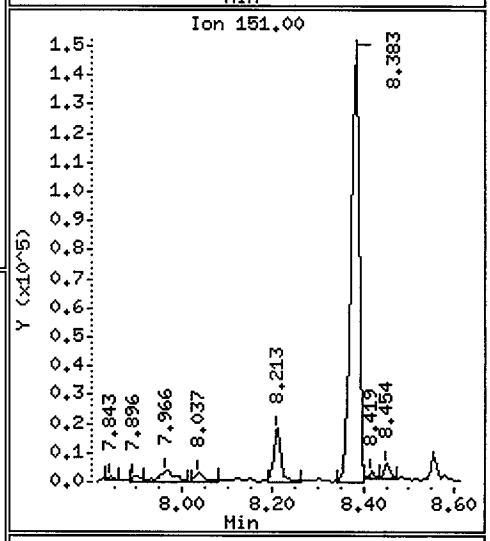


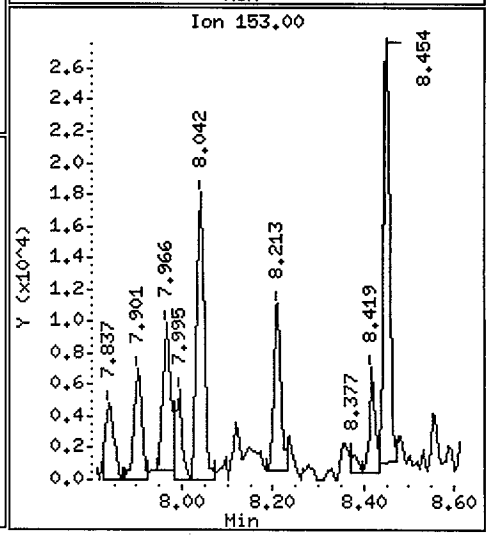












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

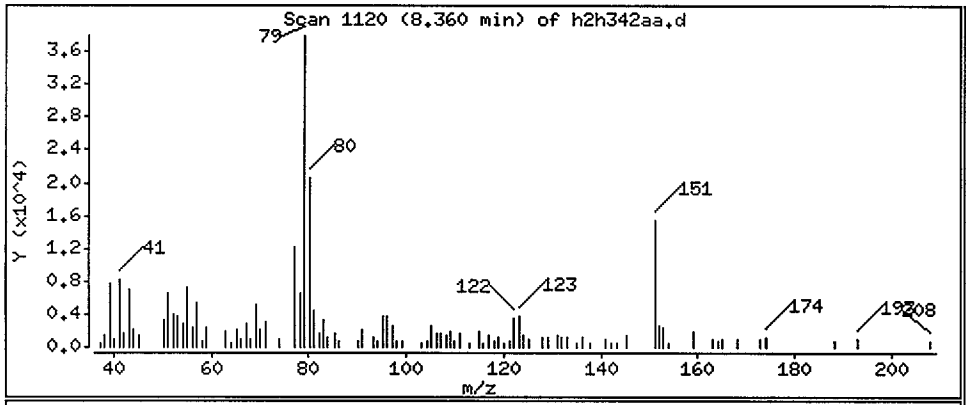
Operator: 60841

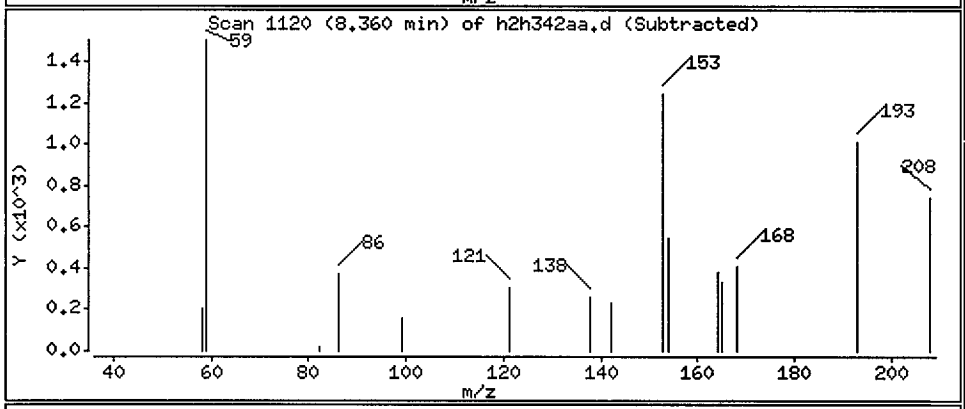
Column phase: ZB-5

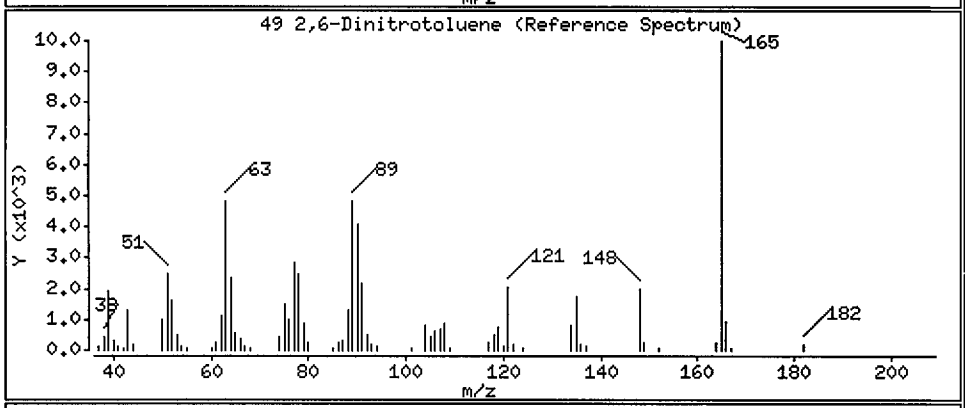
Column diameter: 0.25

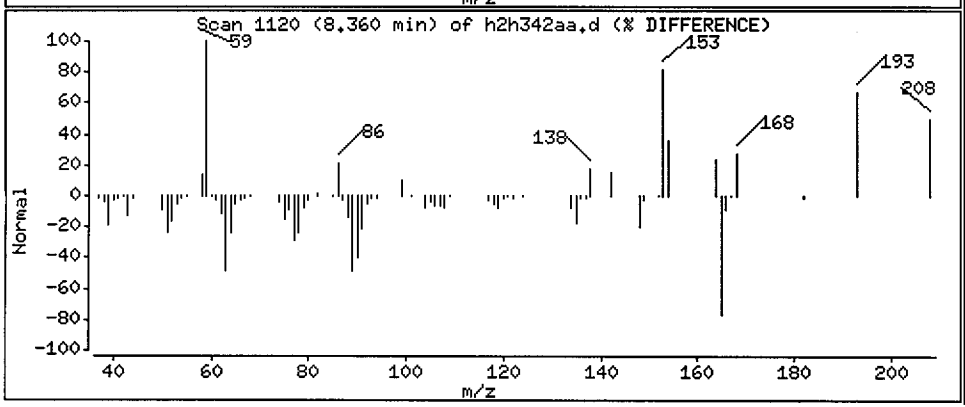
49 2,6-Dinitrotoluene

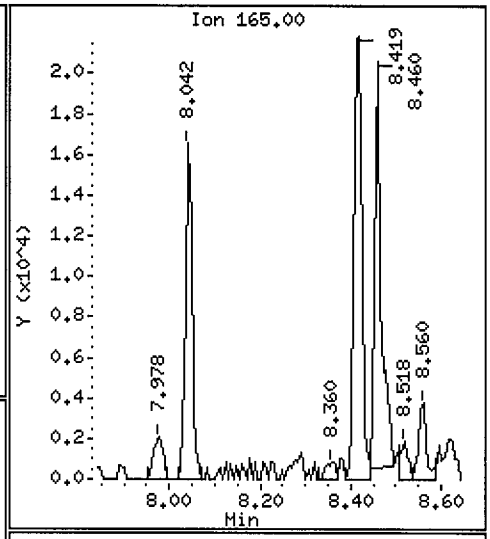
Concentration: 115 ug/Kg

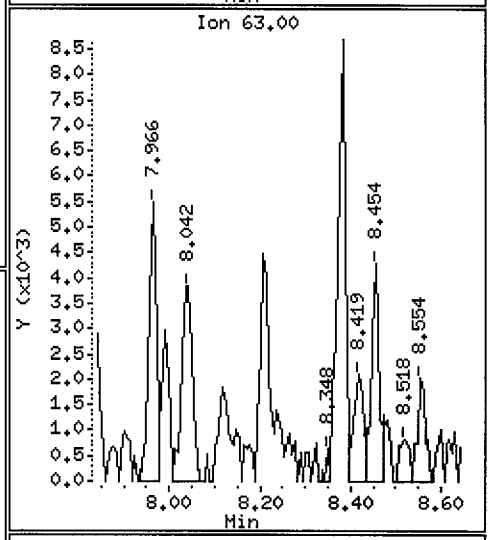


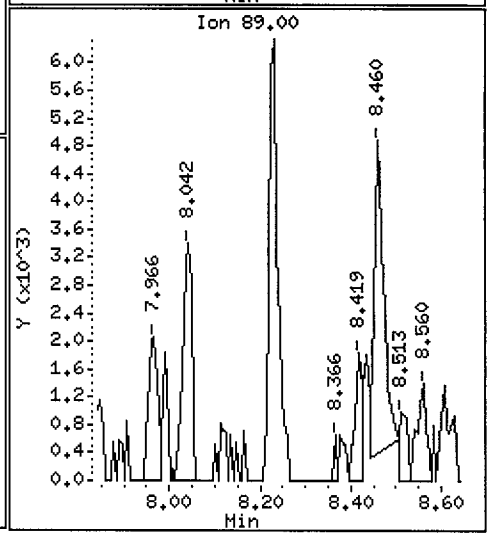












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

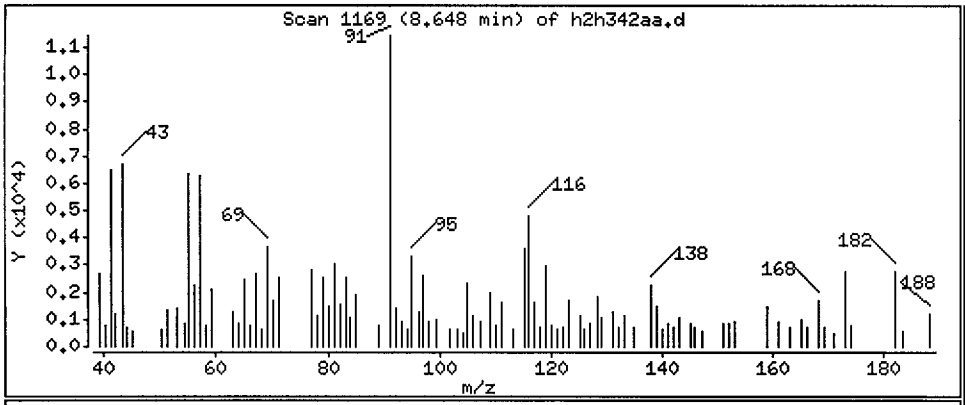
Operator: 60841

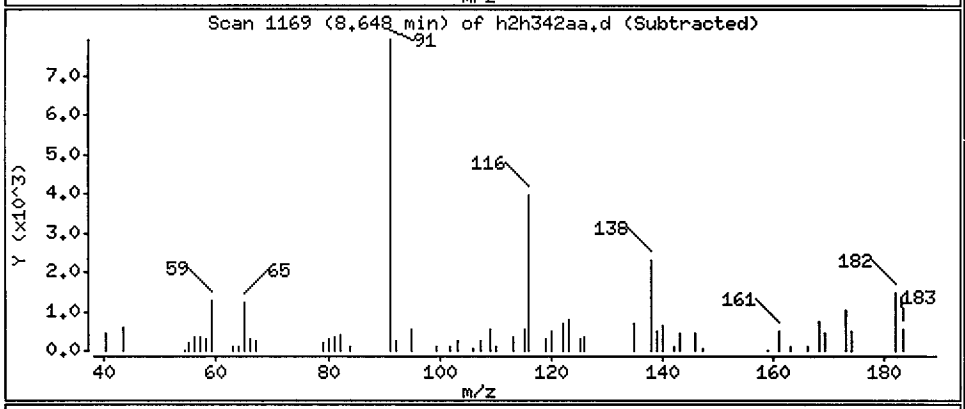
Column phase: ZB-5

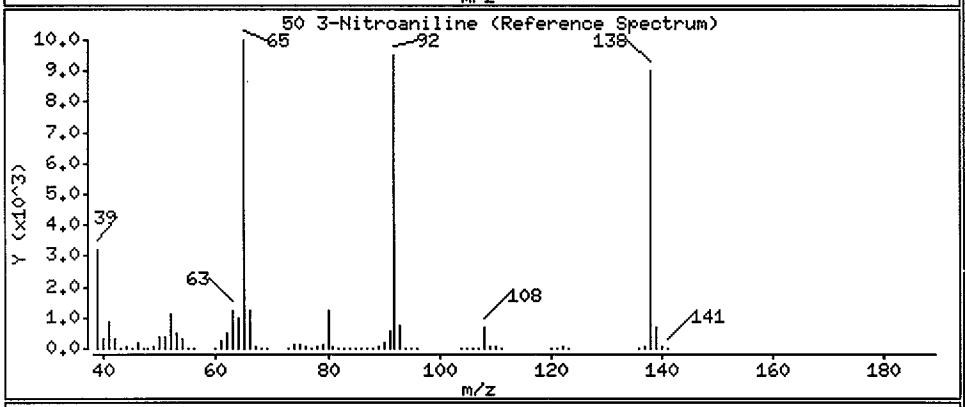
Column diameter: 0.25

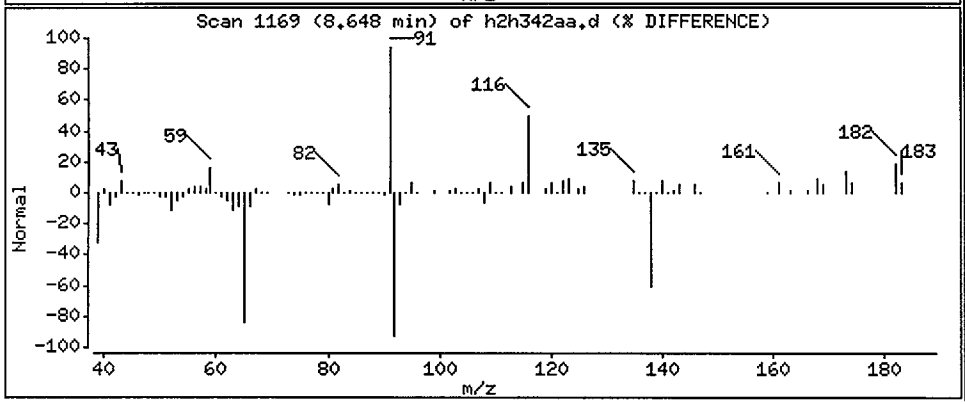
50 3-Nitroaniline

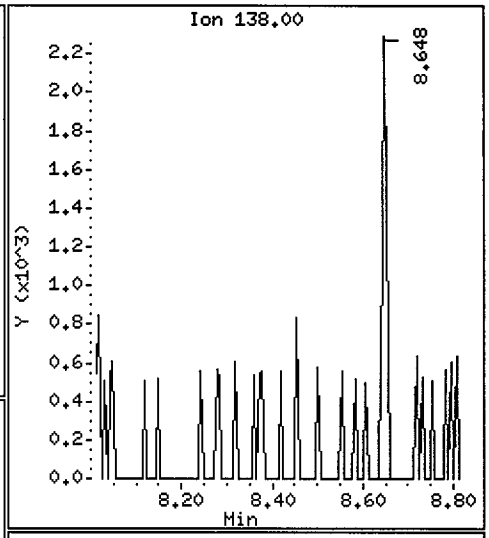
Concentration: 128 ug/Kg

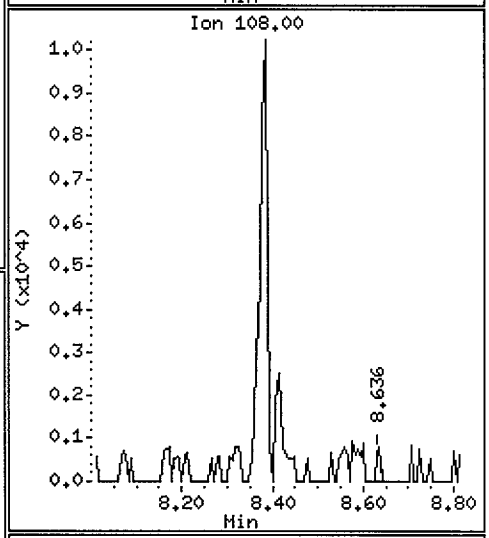


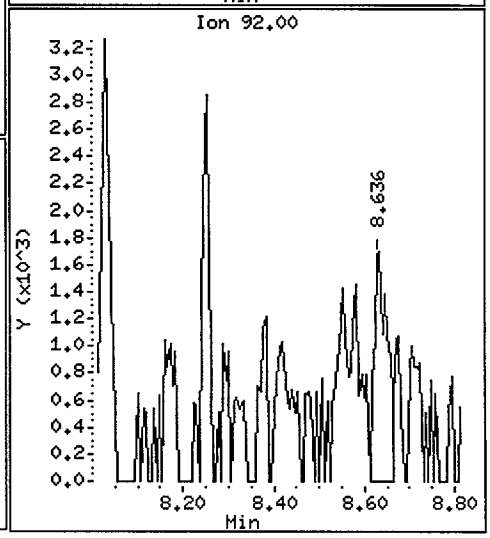












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

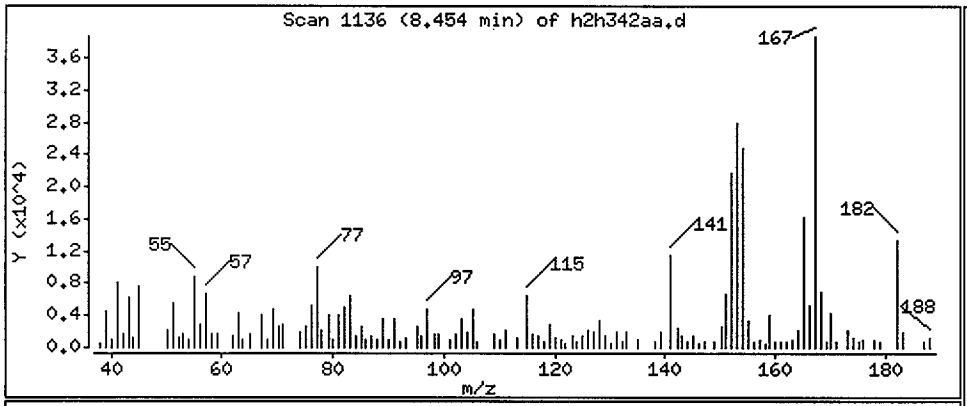
Operator: 60841

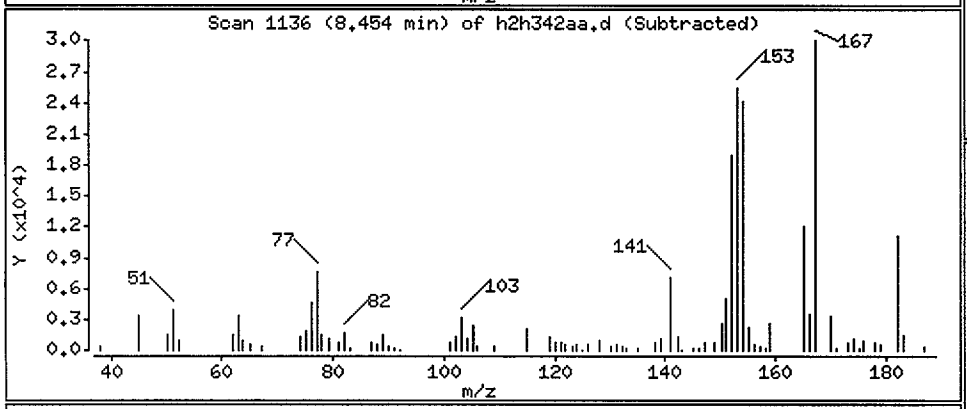
Column phase: ZB-5

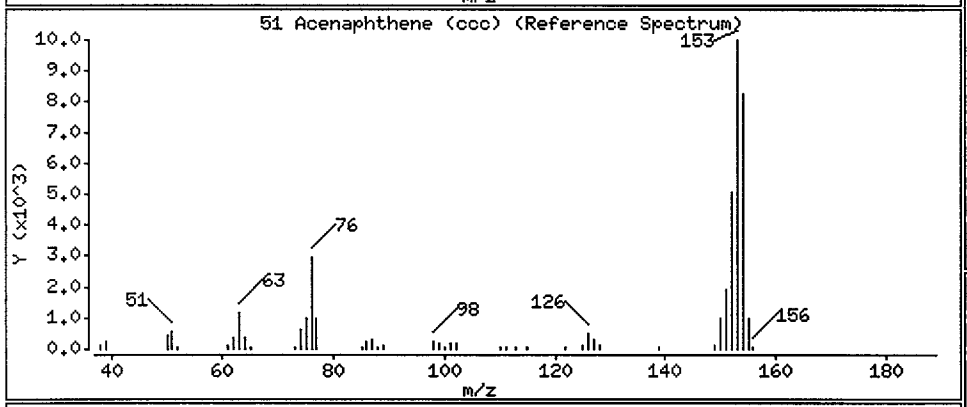
Column diameter: 0.25

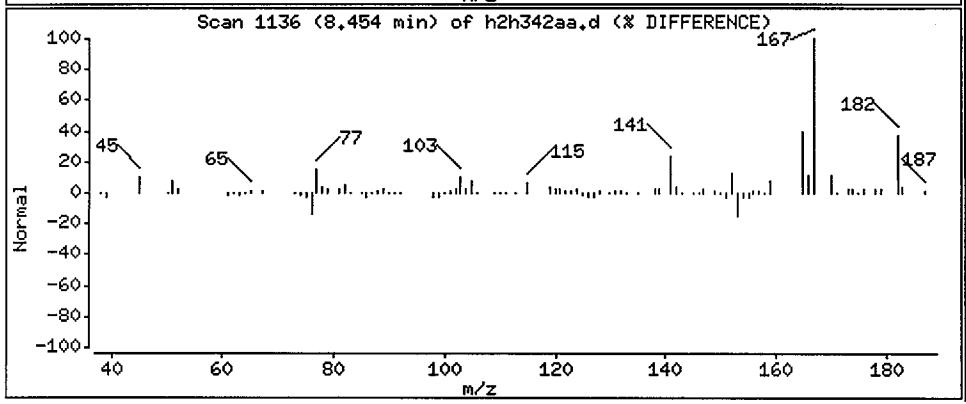
51 Acenaphthene (ccc)

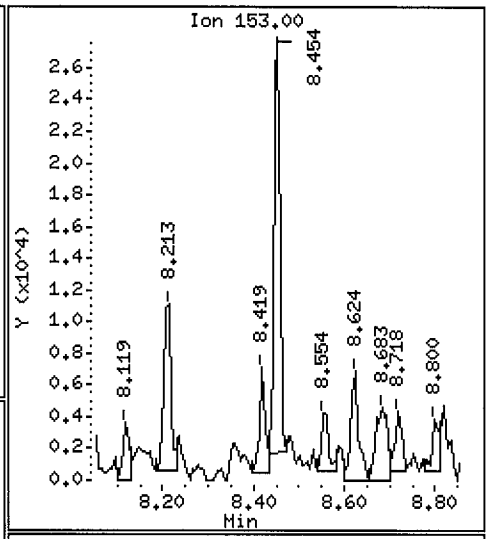
Concentration: 571 ug/Kg

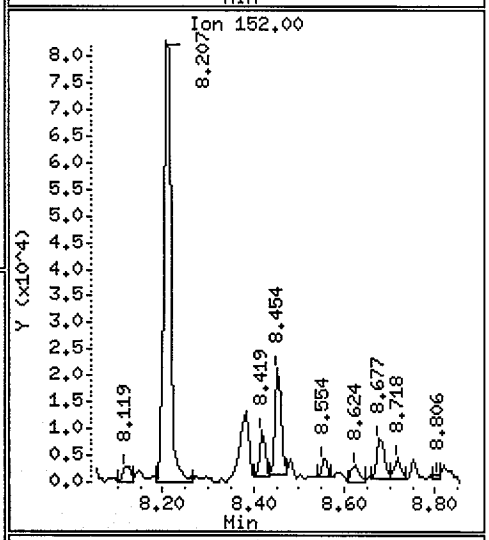


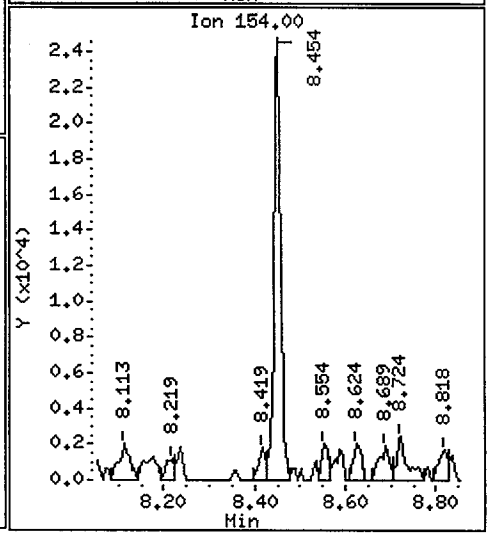












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

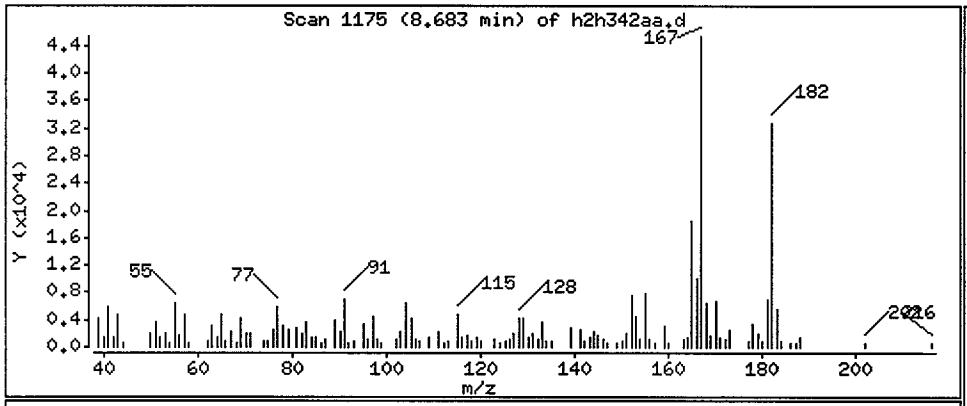
Operator: 60841

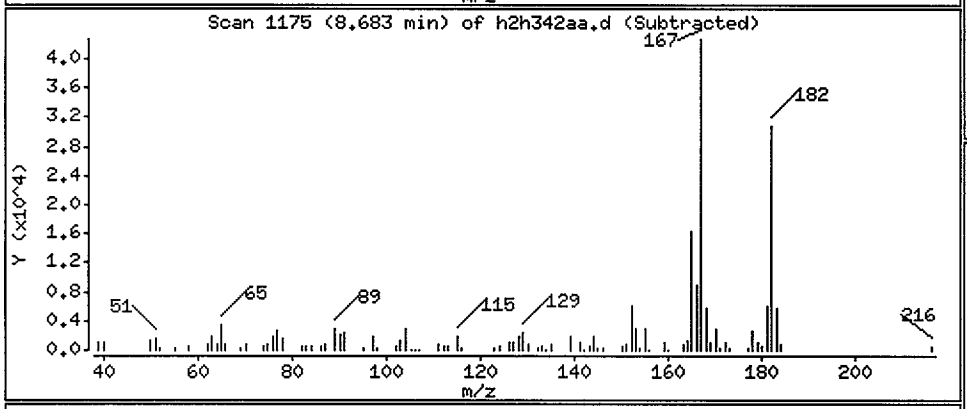
Column phase: ZB-5

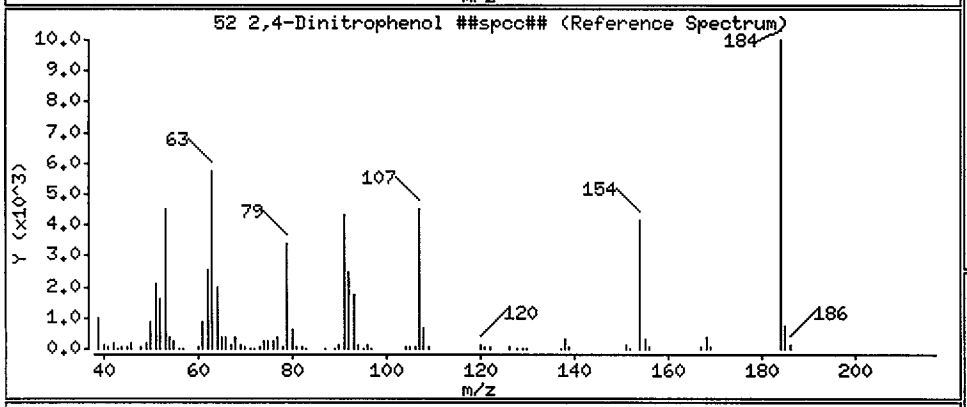
Column diameter: 0.25

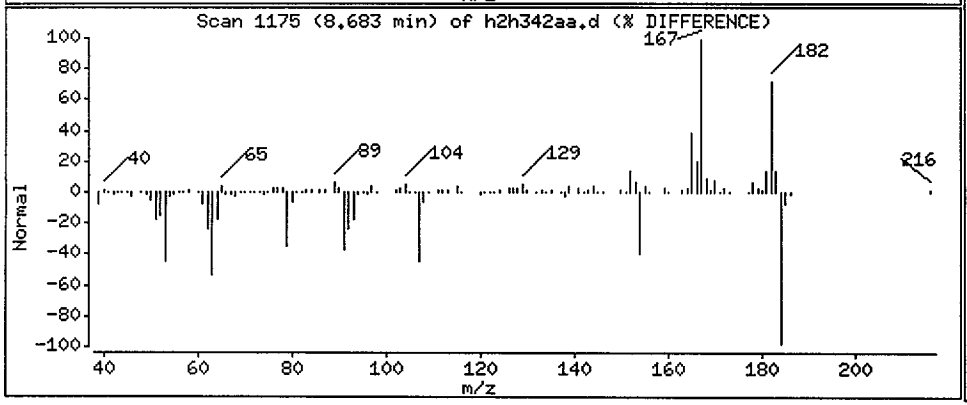
52 2,4-Dinitrophenol ##spcc##

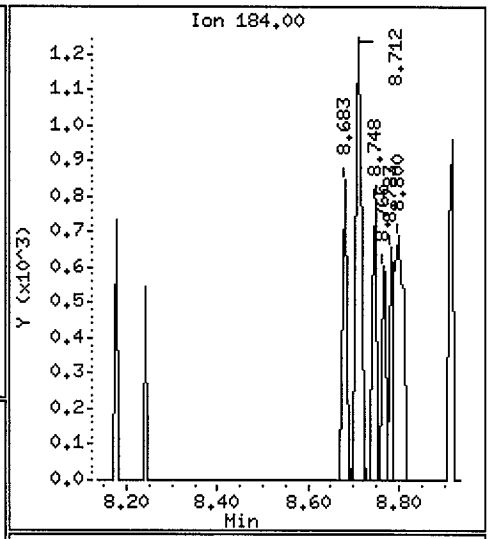
Concentration: 2020 ug/Kg

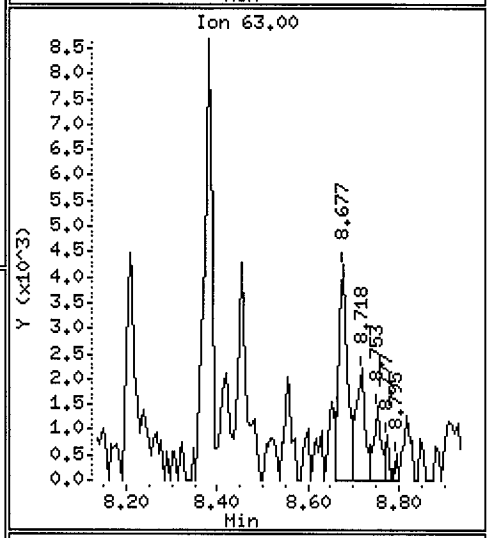


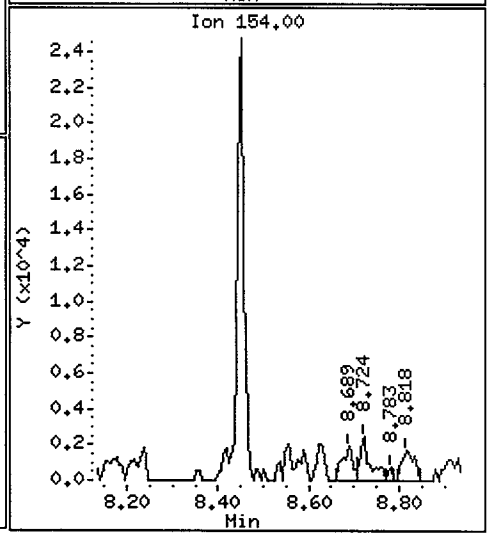












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

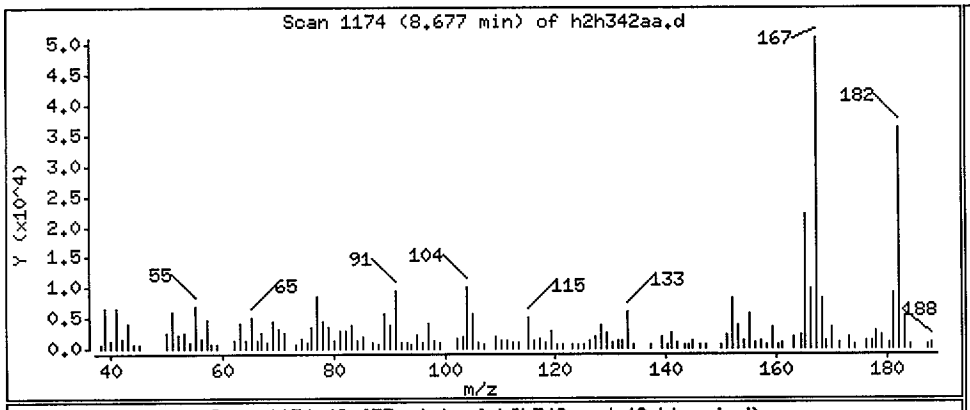
Operator: 60841

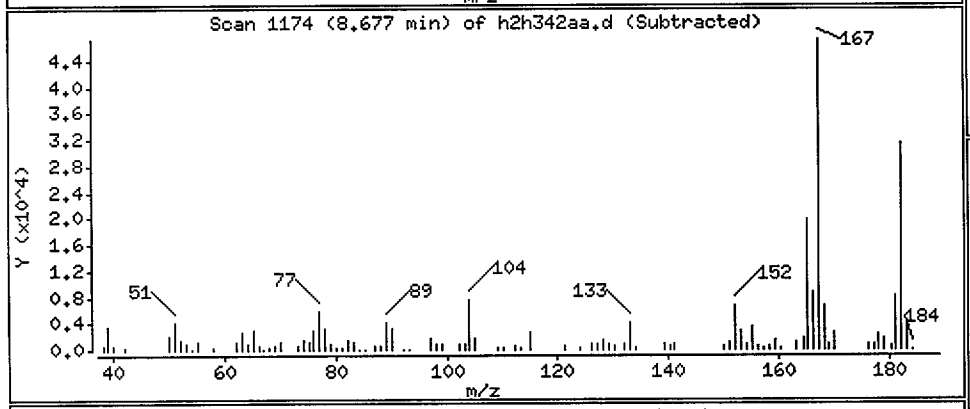
Column phase: ZB-5

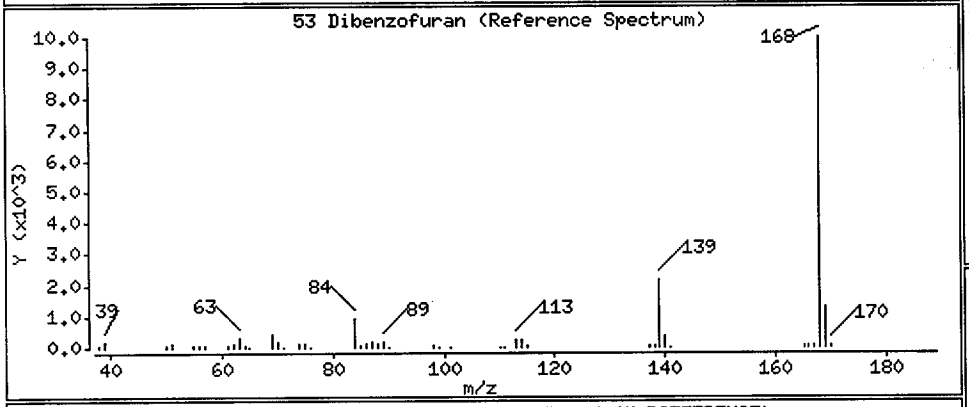
Column diameter: 0.25

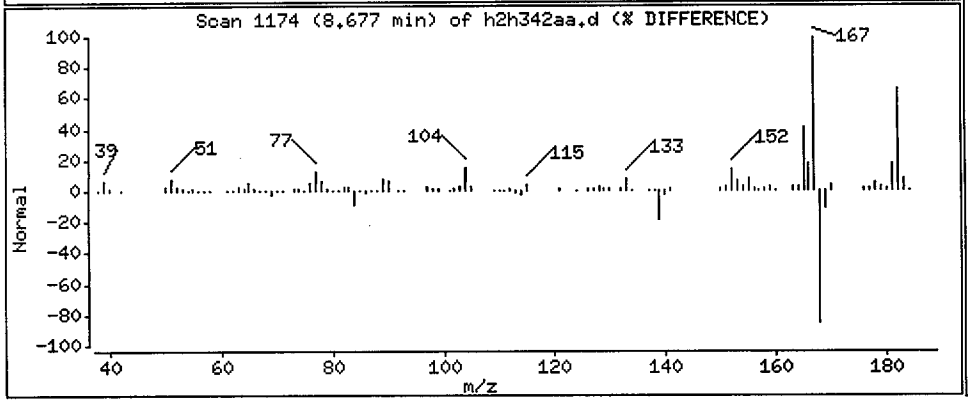
53 Dibenzofuran

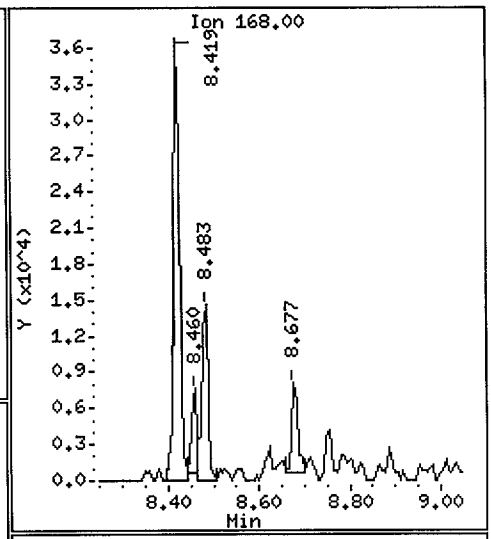
Concentration: 108 ug/Kg

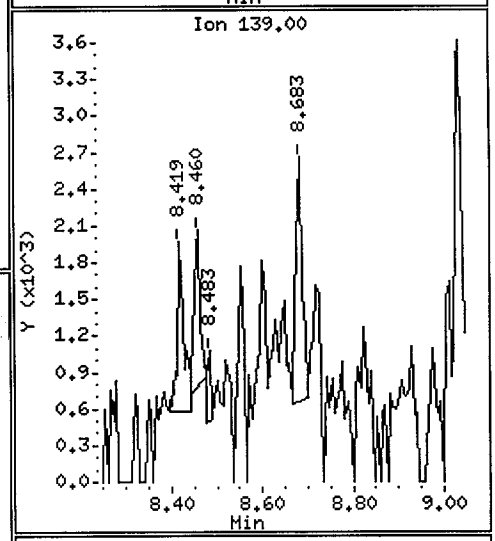


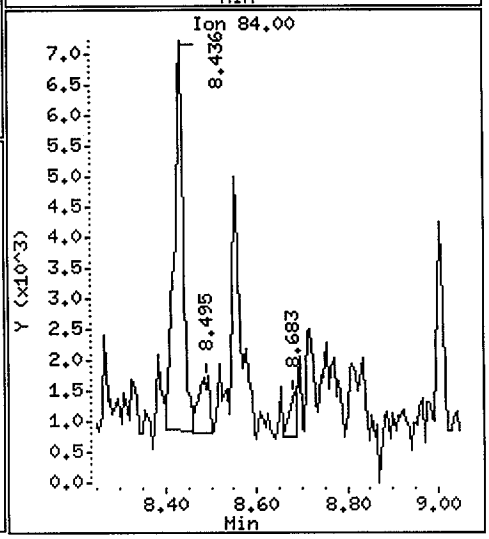












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

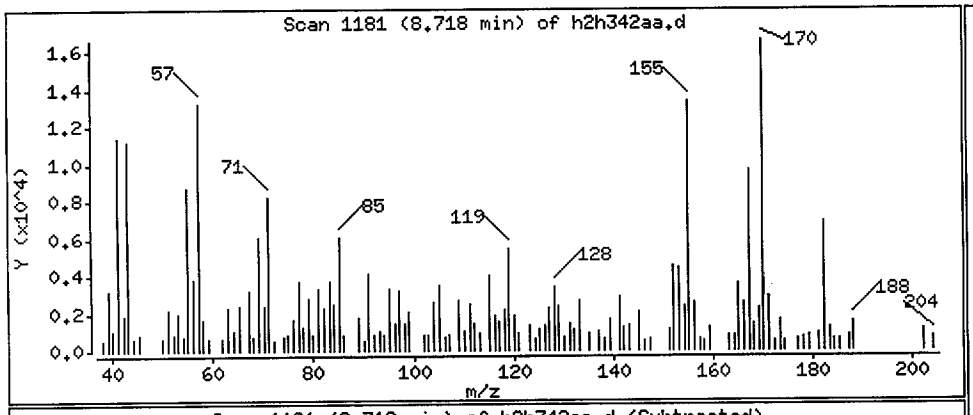
Operator: 60841

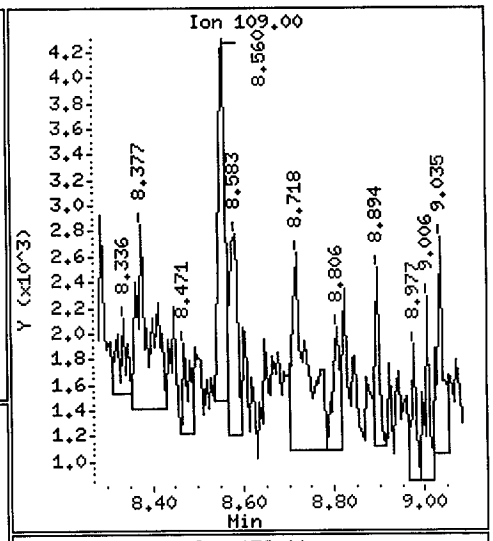
Column phase: ZB-5

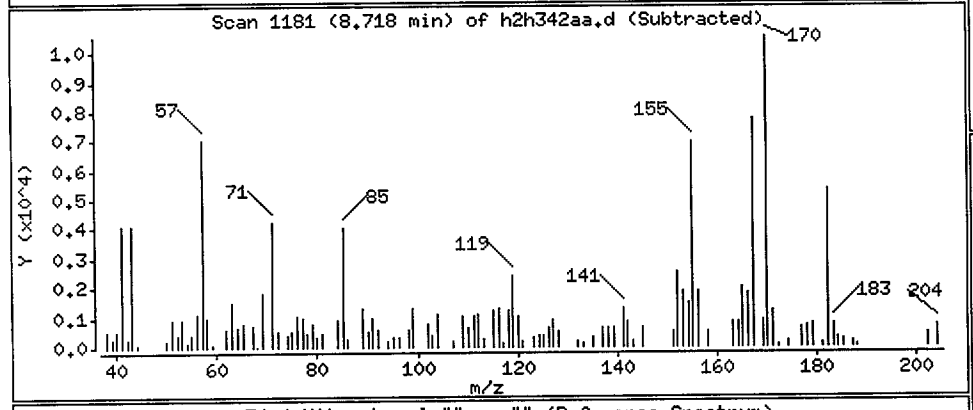
Column diameter: 0.25

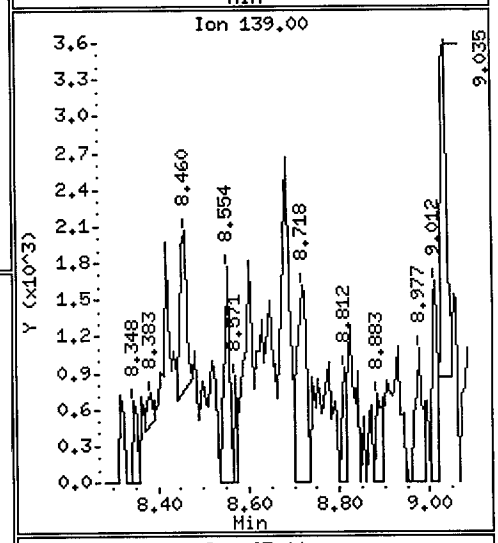
54 4-Nitrophenol ##spcc##

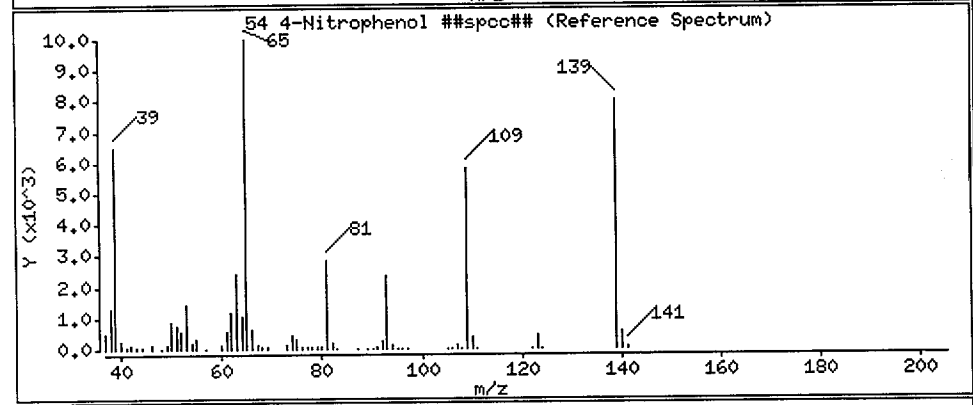
Concentration: 430 ug/Kg

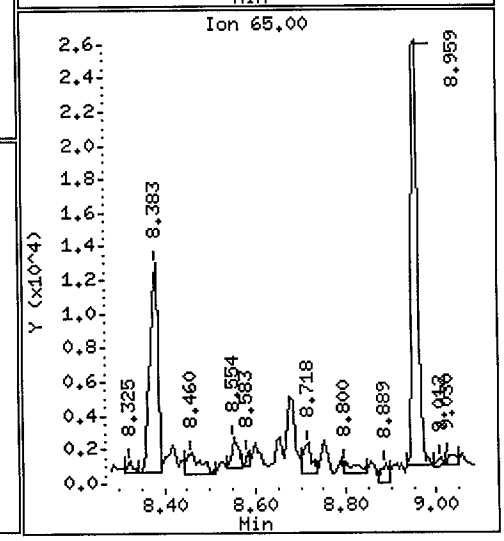


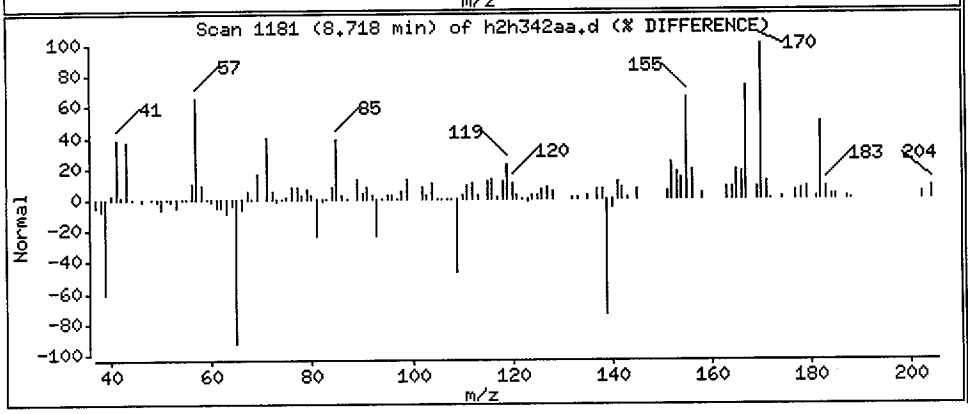












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

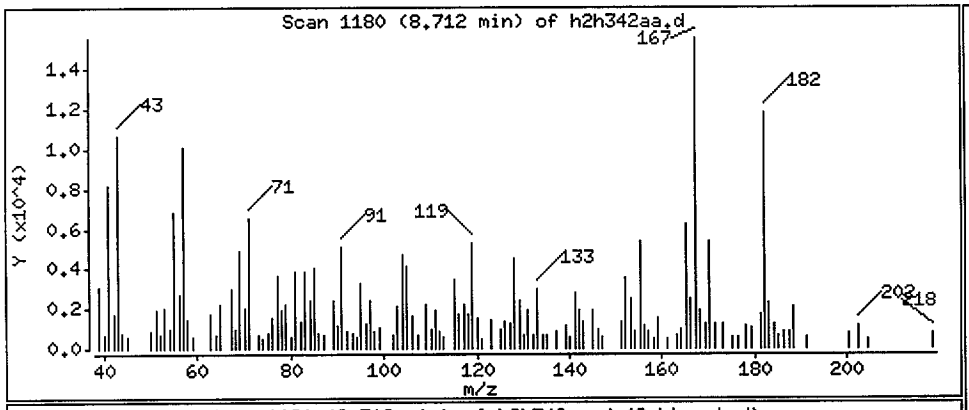
Operator: 60841

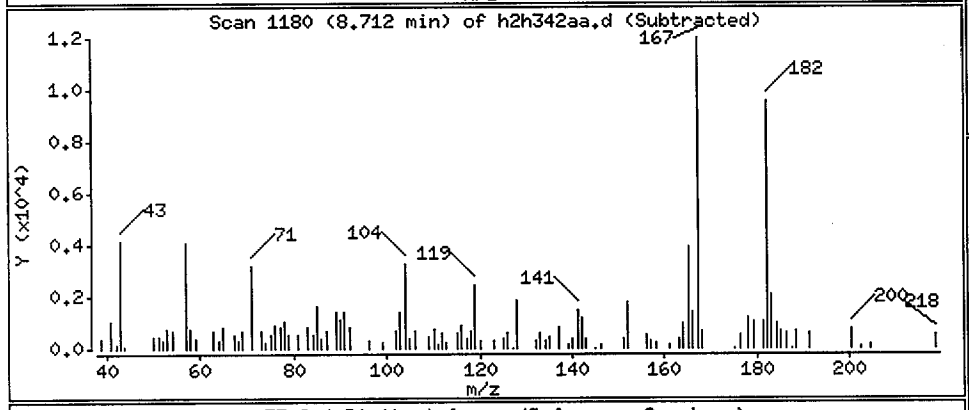
Column phase: ZB-5

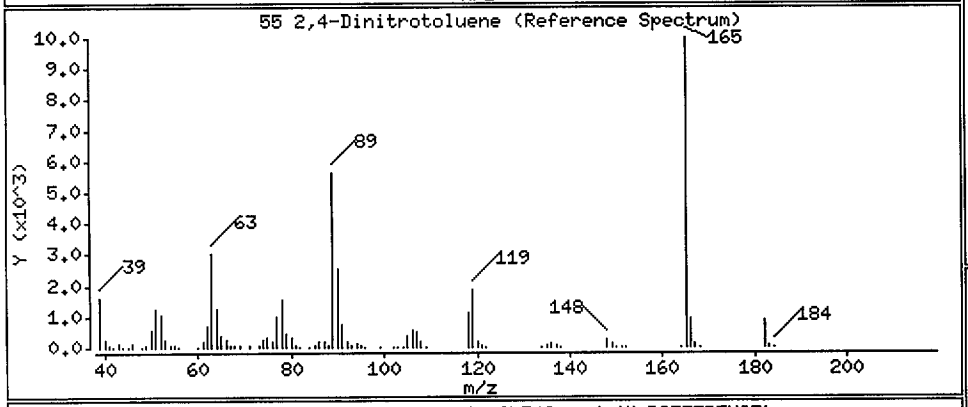
Column diameter: 0.25

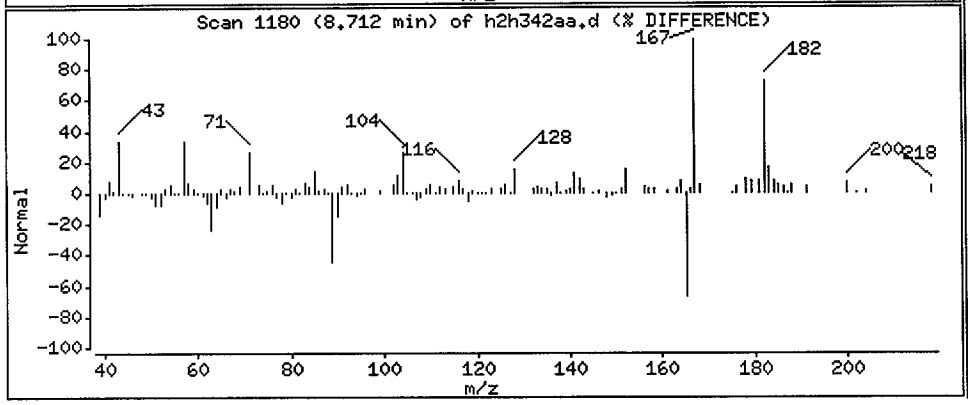
55 2,4-Dinitrotoluene

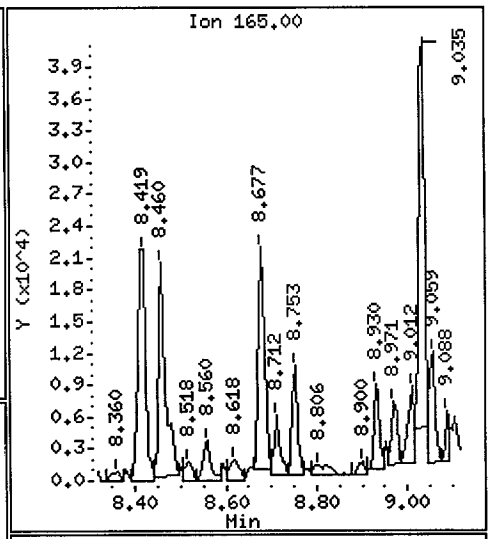
Concentration: 358 ug/Kg

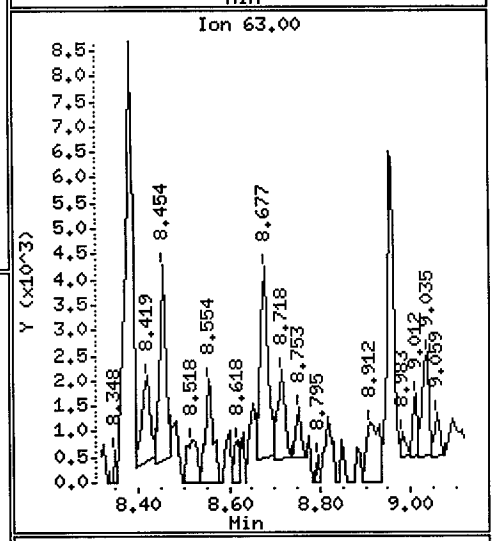


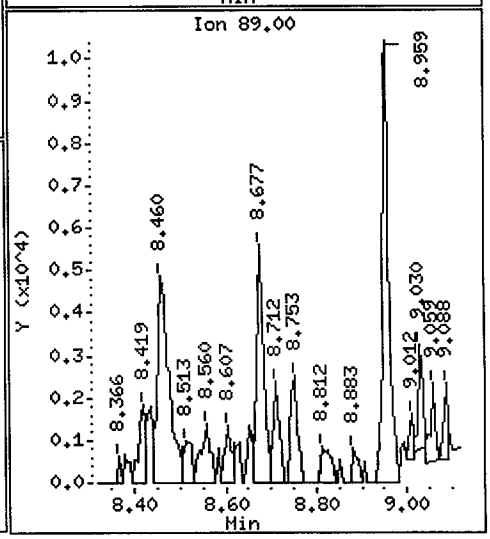












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

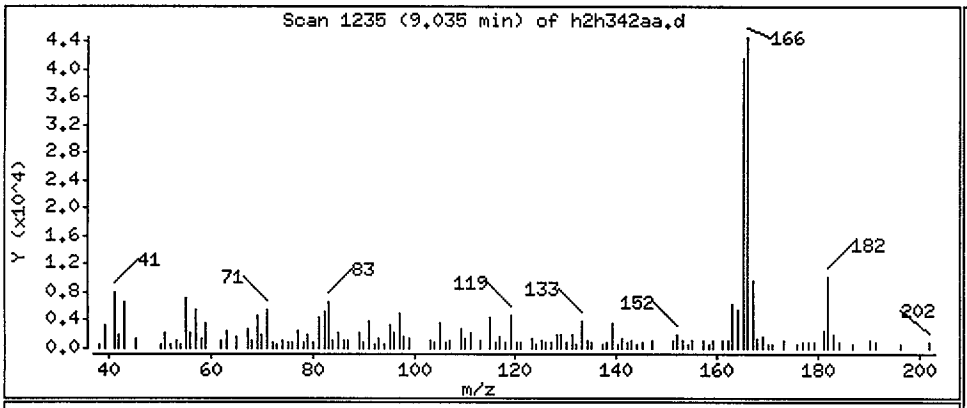
Operator: 60841

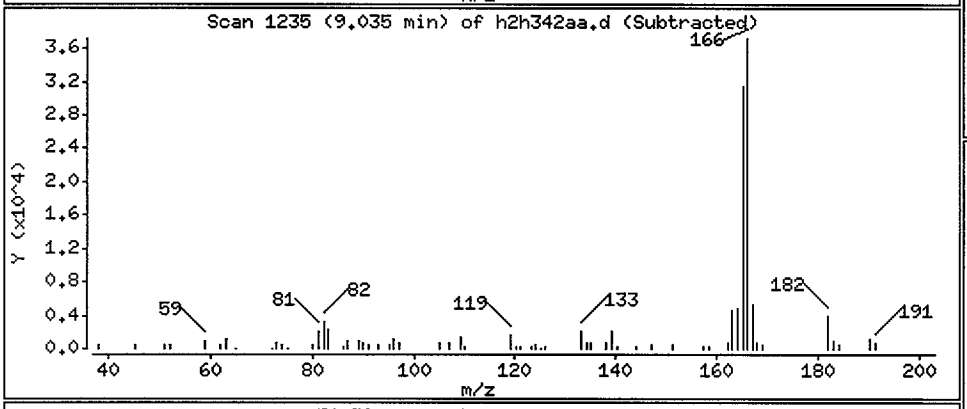
Column phase: ZB-5

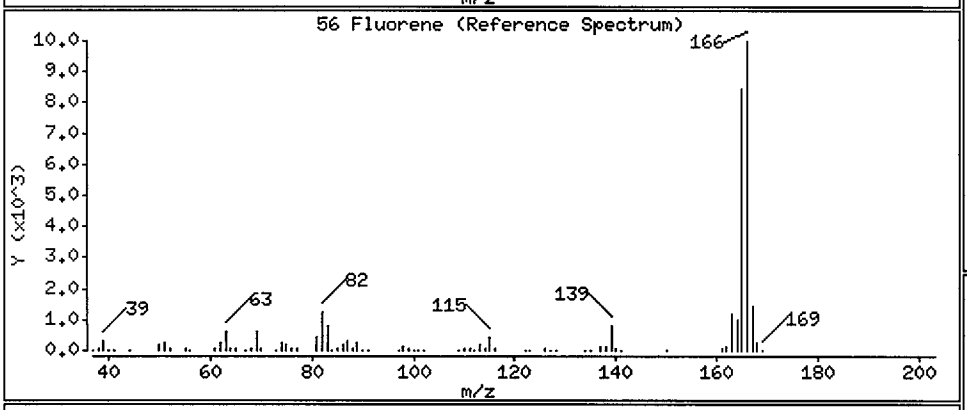
Column diameter: 0.25

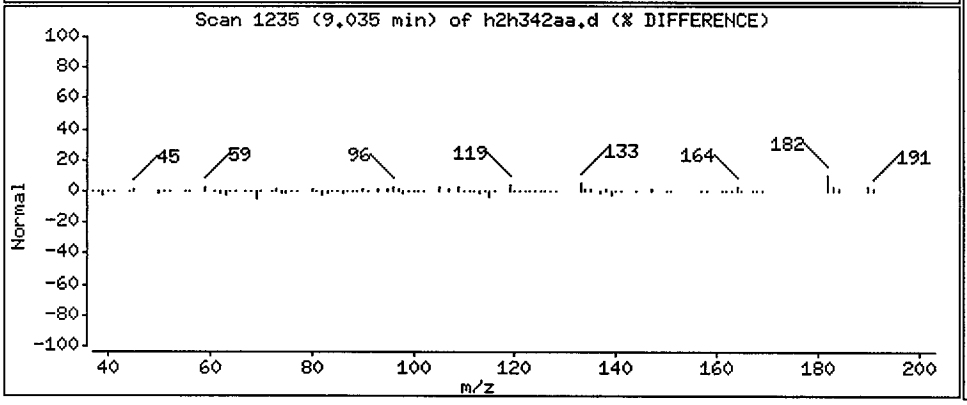
56 Fluorene

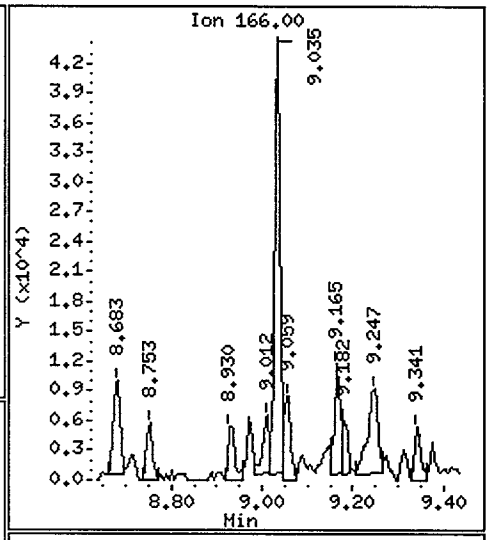
Concentration: 728 ug/Kg

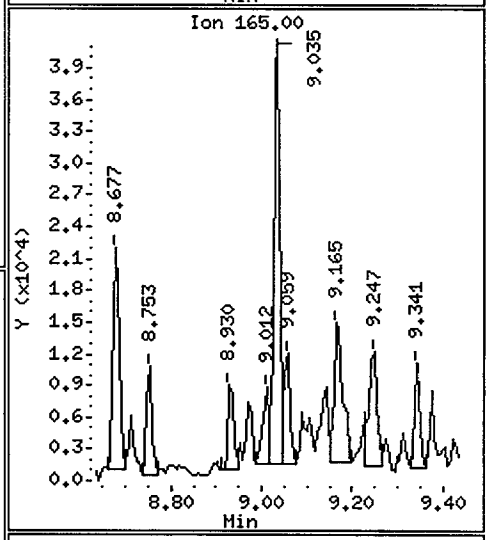


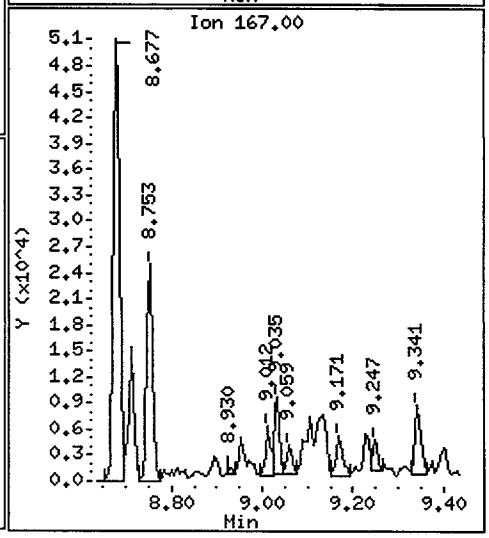












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

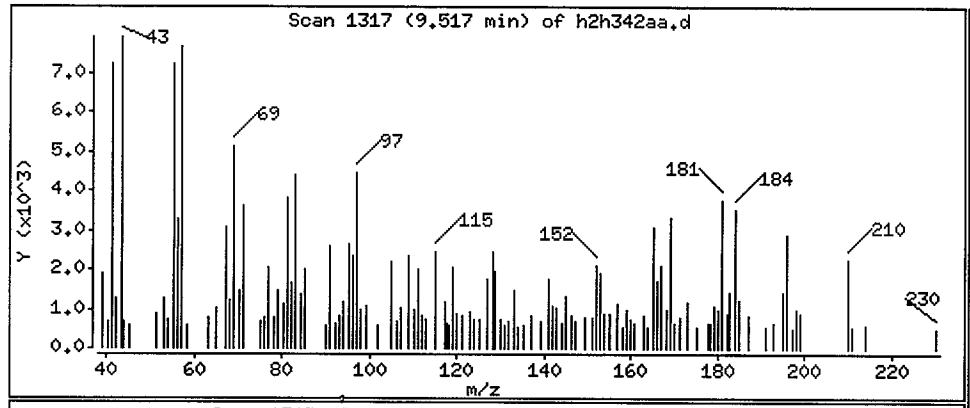
Operator: 60841

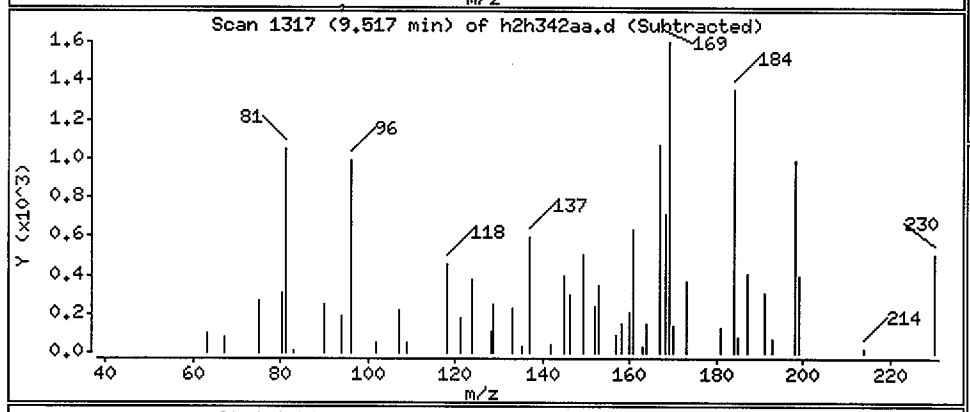
Column phase: ZB-5

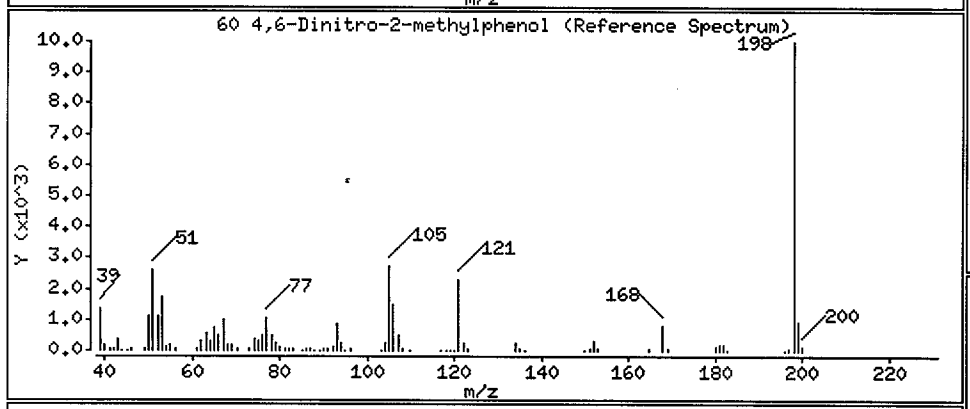
Column diameter: 0.25

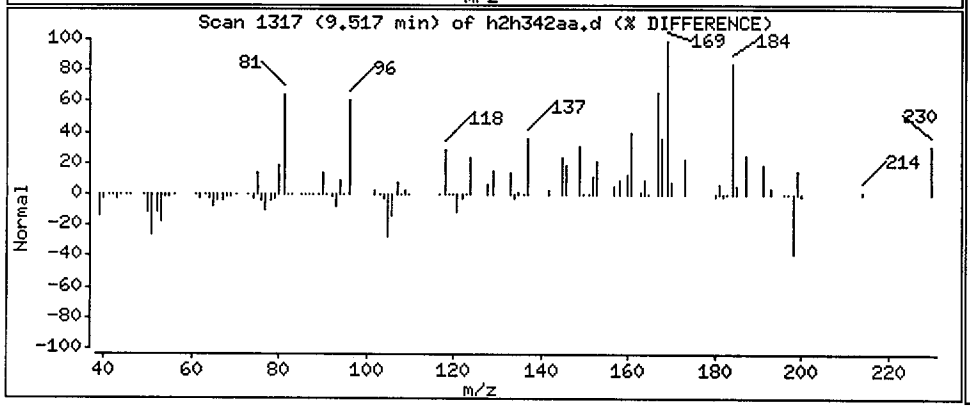
60 4,6-Dinitro-2-methylphenol

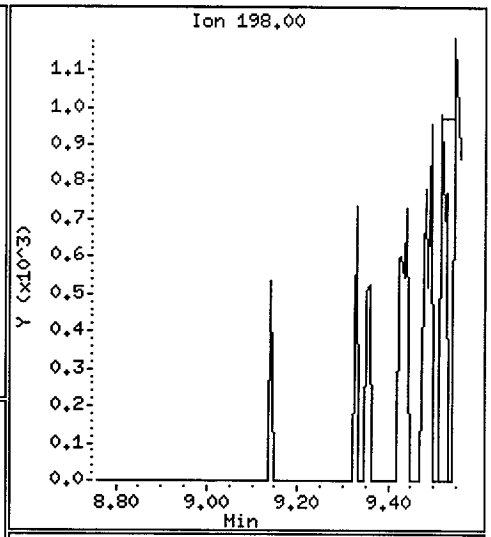
Concentration: 106 ug/Kg

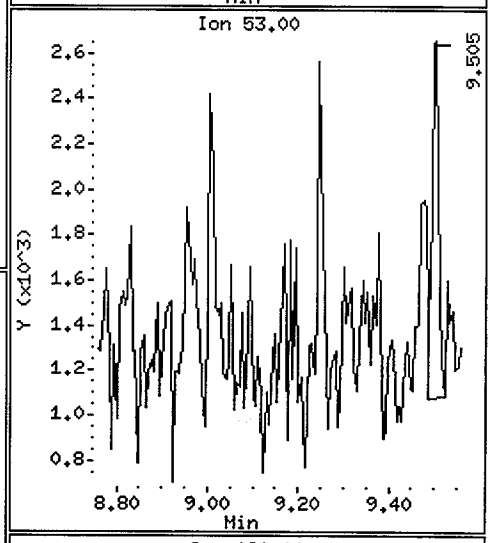


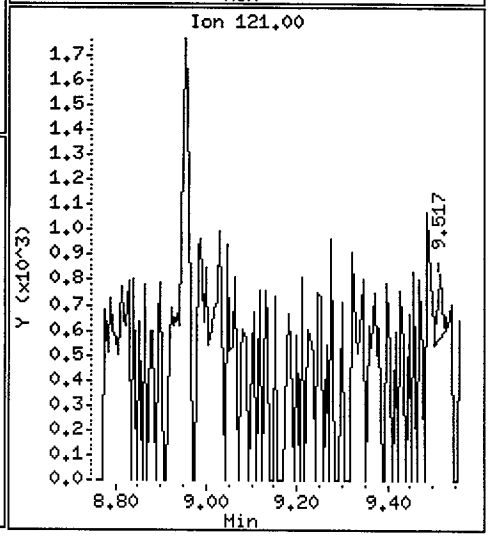












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

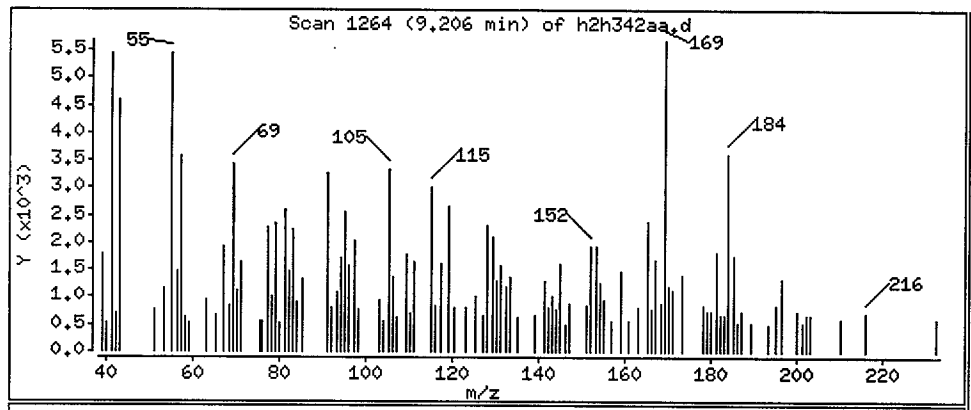
Operator: 60841

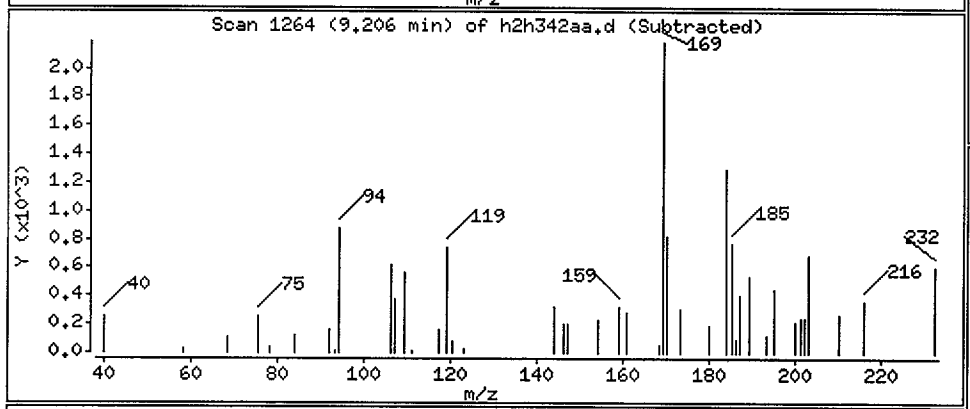
Column phase: ZB-5

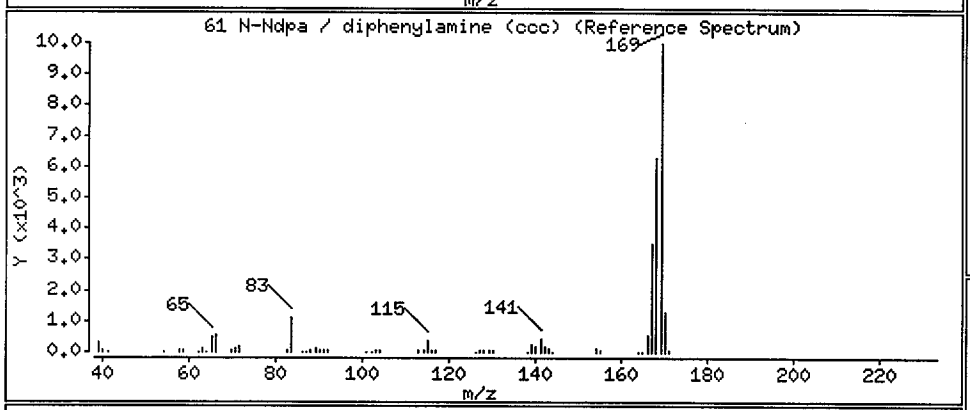
Column diameter: 0.25

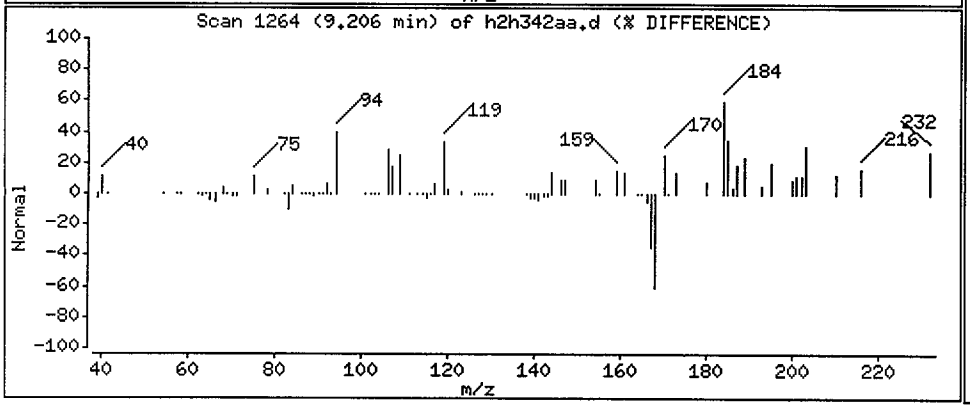
61 N-Ndpa / diphenylamine (ccc)

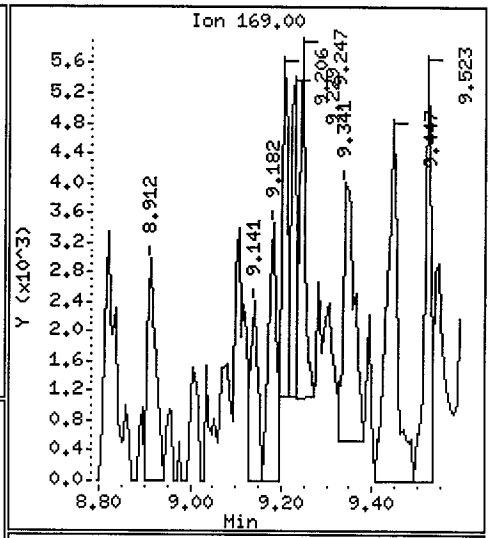
Concentration: 116 ug/Kg

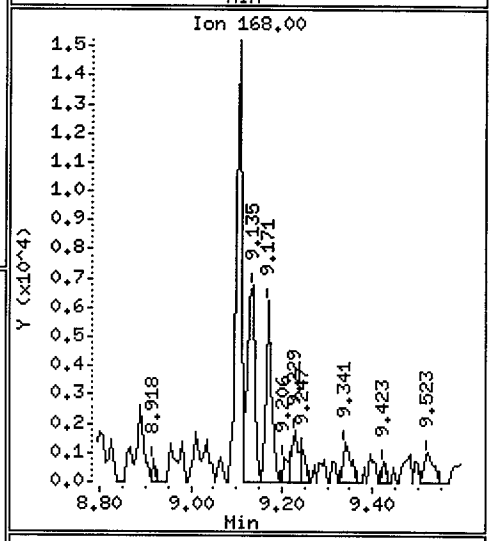


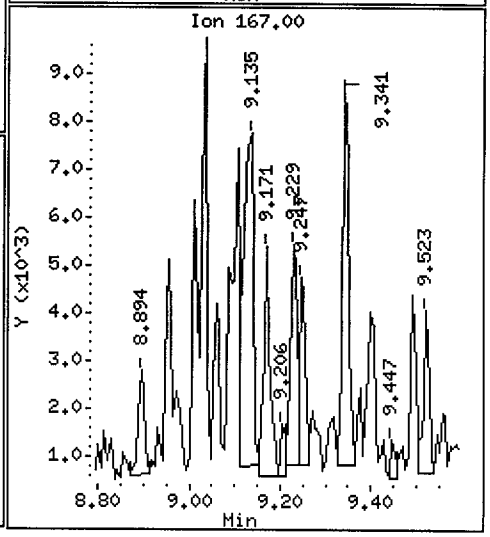












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

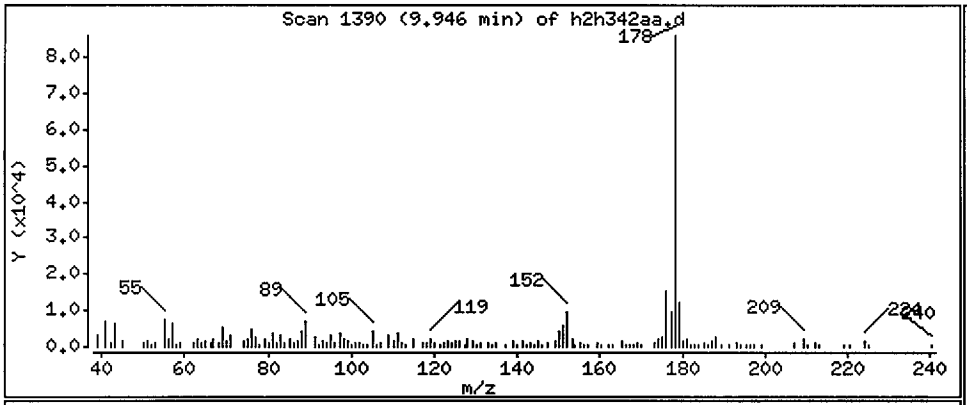
Operator: 60841

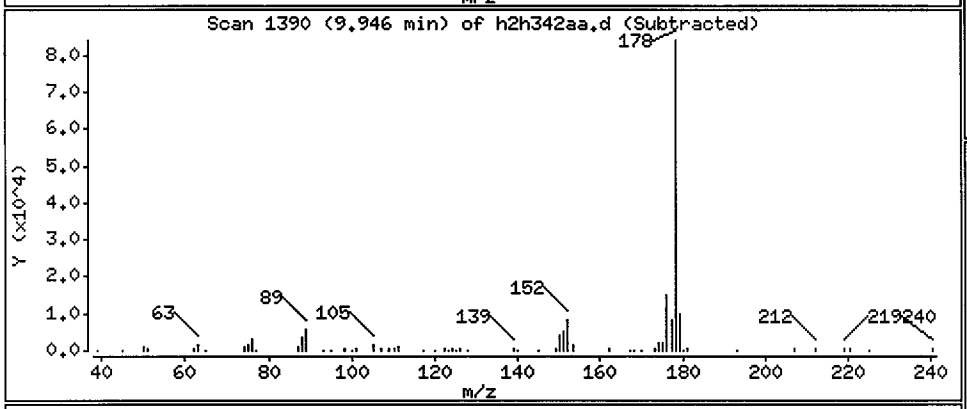
Column phase: ZB-5

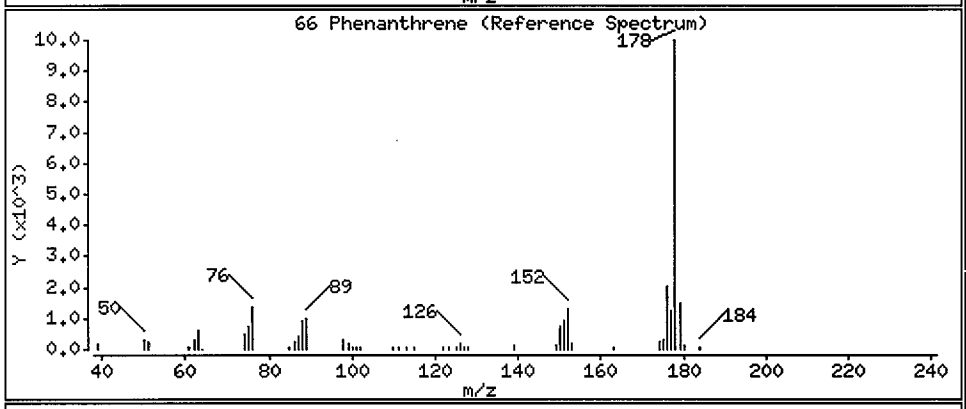
Column diameter: 0.25

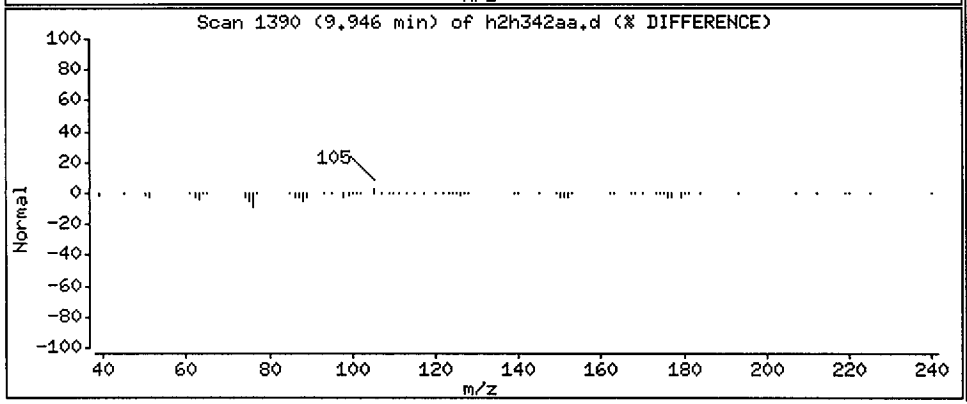
66 Phenanthrene

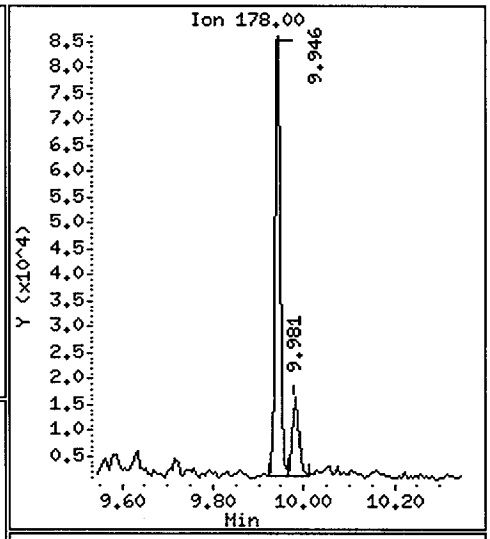
Concentration: 922 ug/Kg

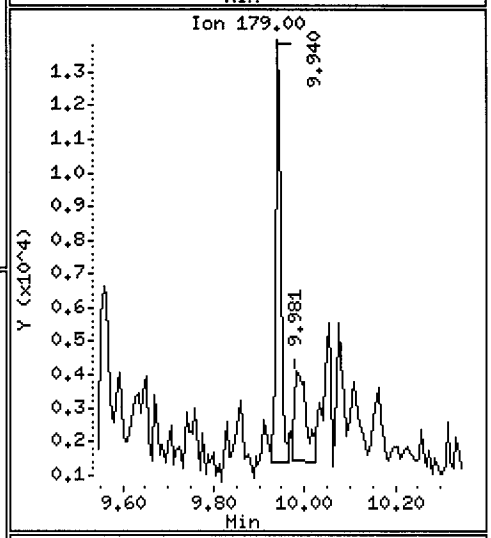


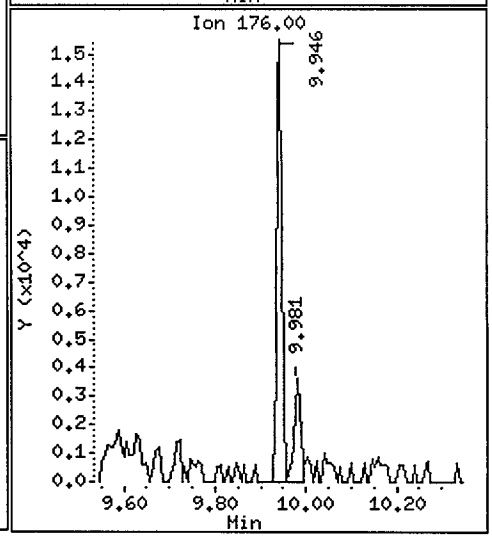












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

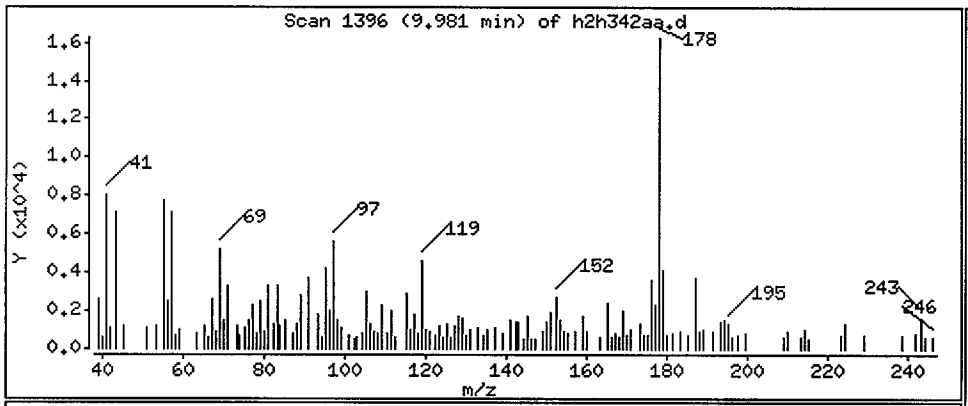
Operator: 60841

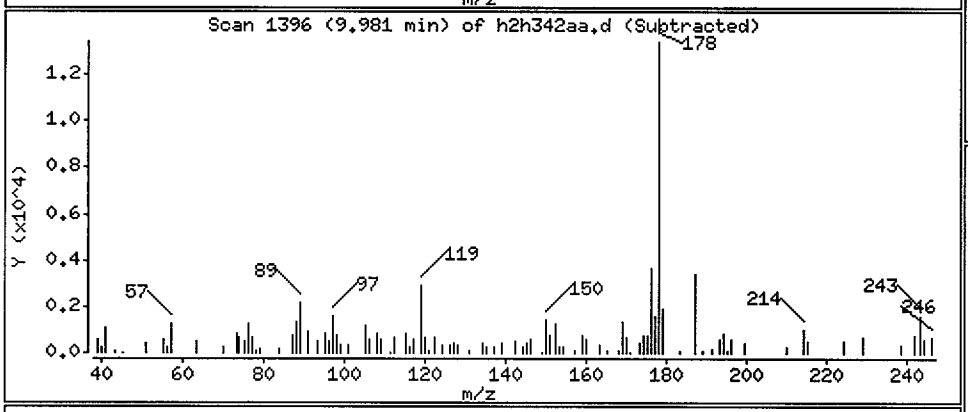
Column phase: ZB-5

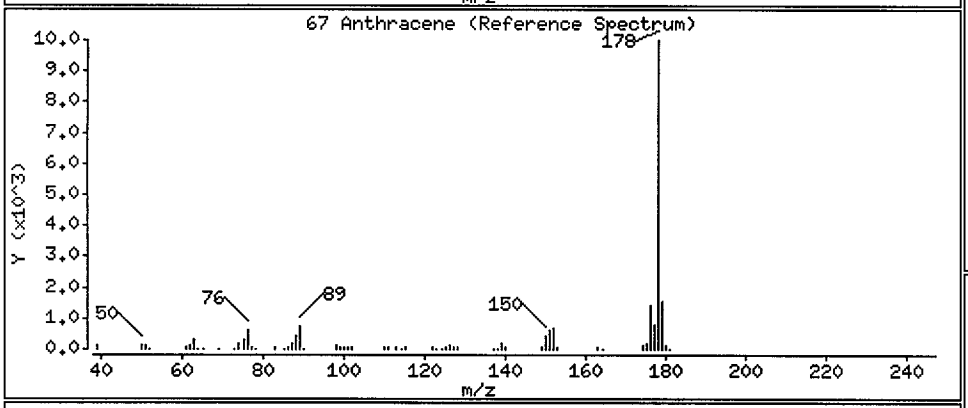
Column diameter: 0.25

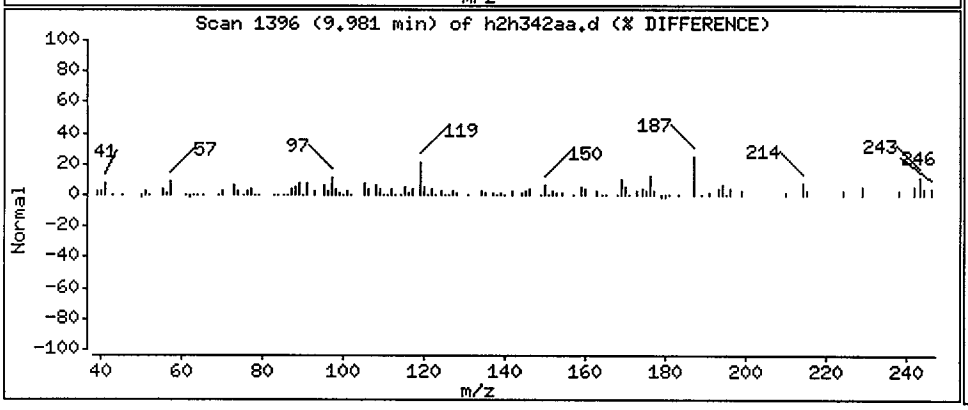
67 Anthracene

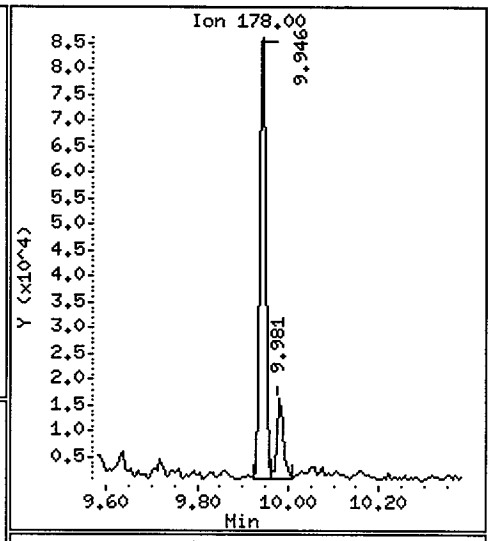
Concentration: 198 ug/Kg

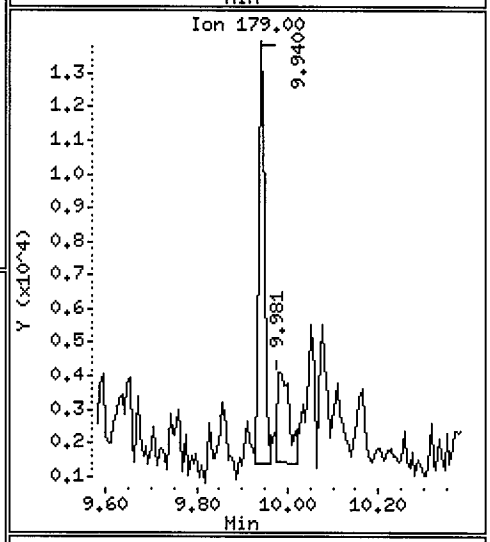


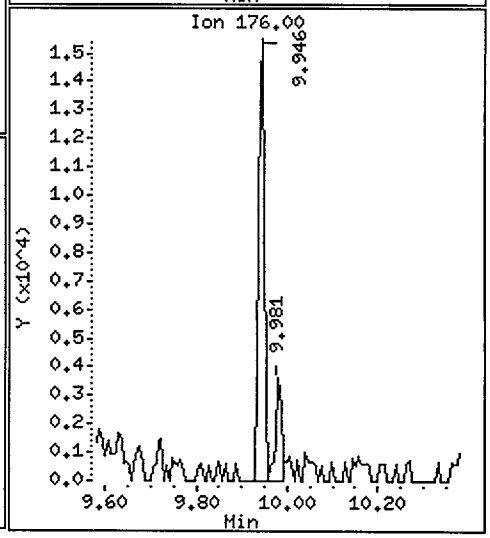












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

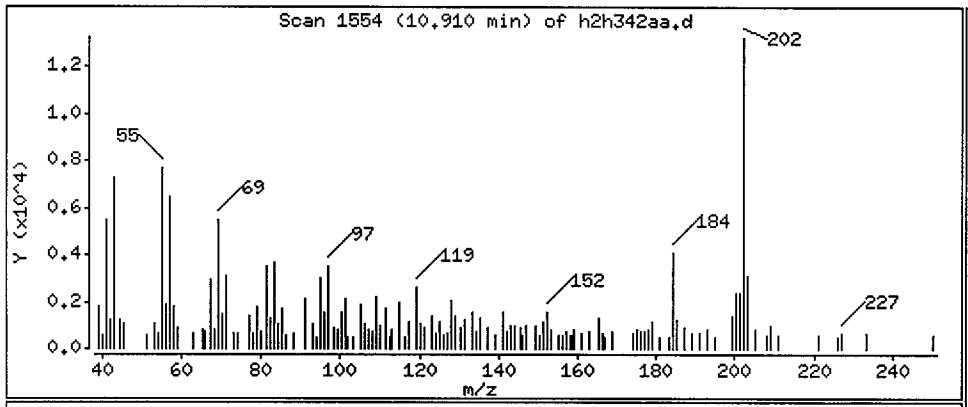
Operator: 60841

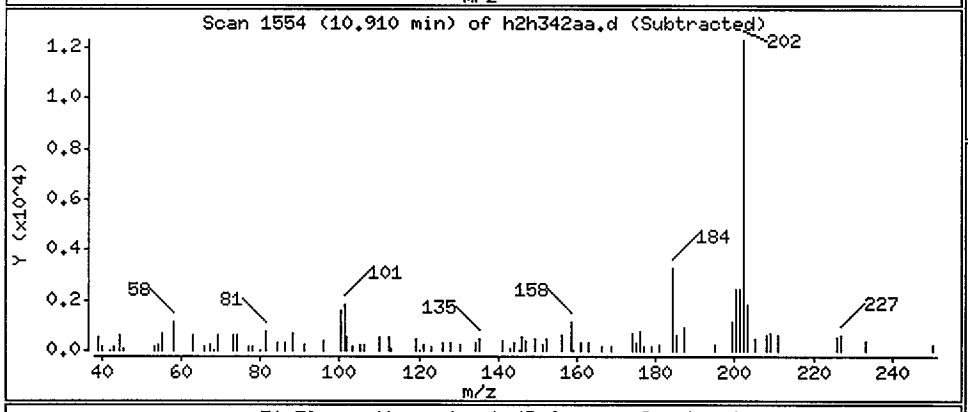
Column phase: ZB-5

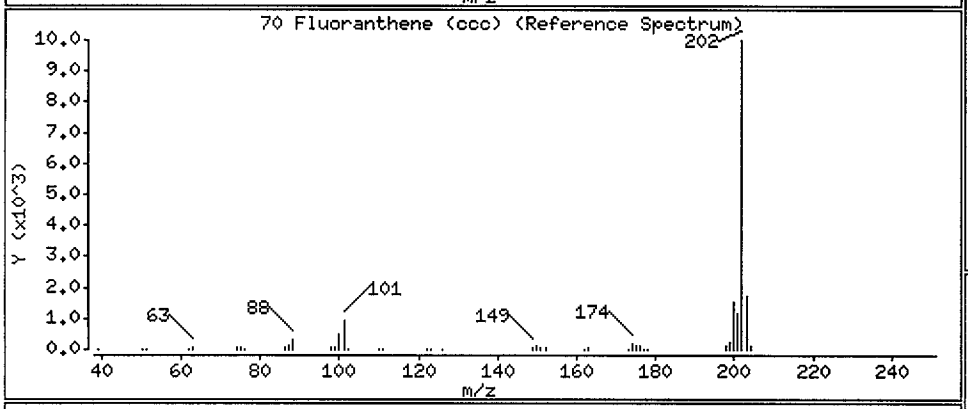
Column diameter: 0.25

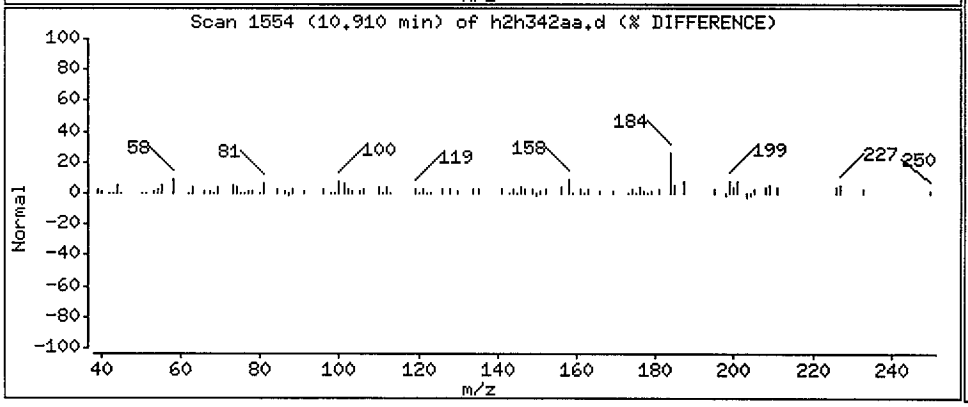
70 Fluoranthene (ccc)

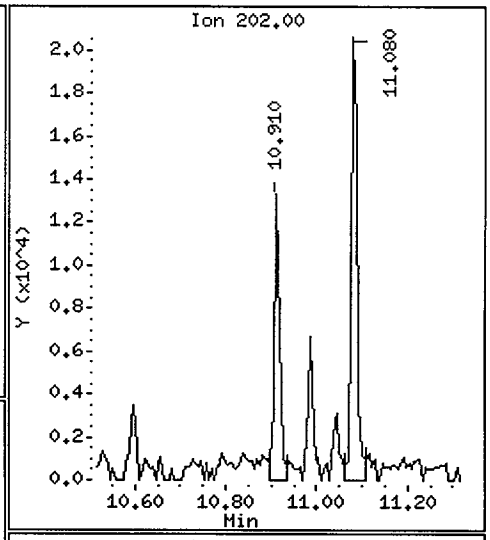
Concentration: 139 ug/Kg

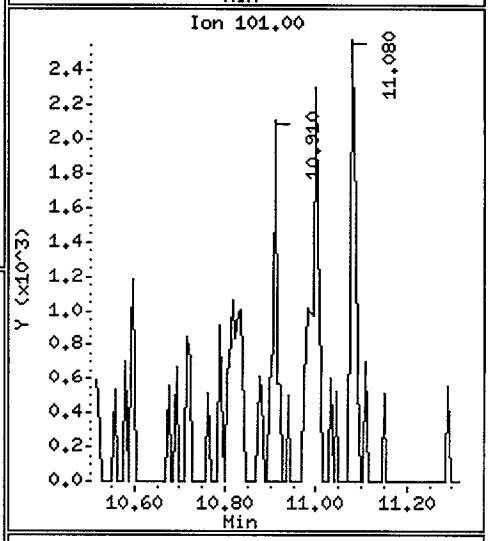


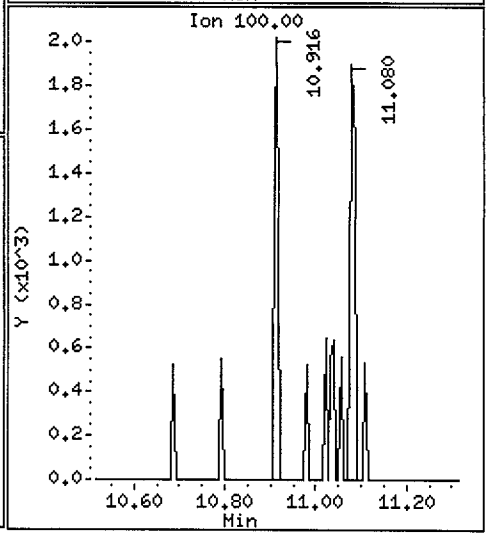












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

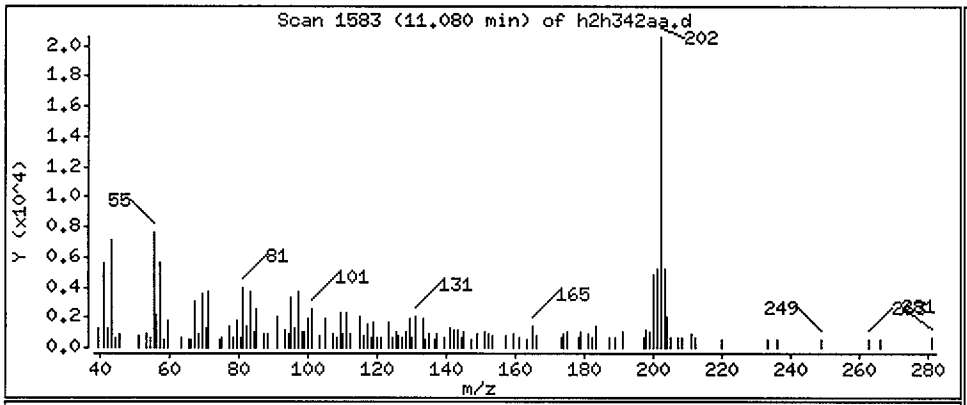
Operator: 60841

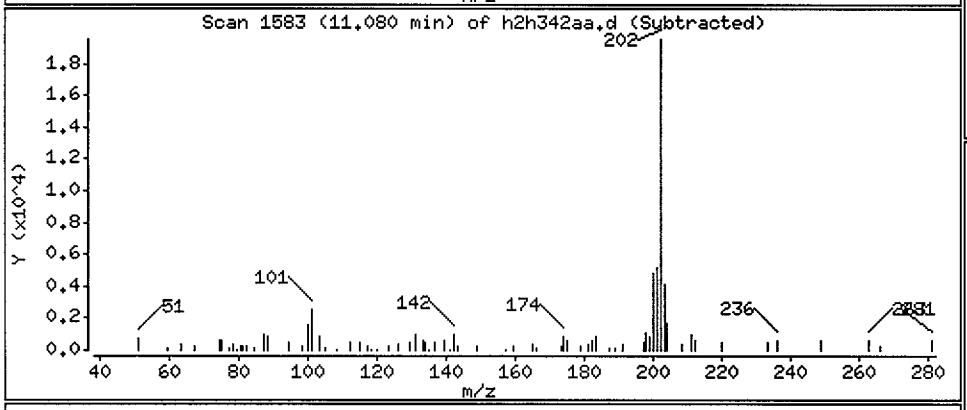
Column phase: ZB-5

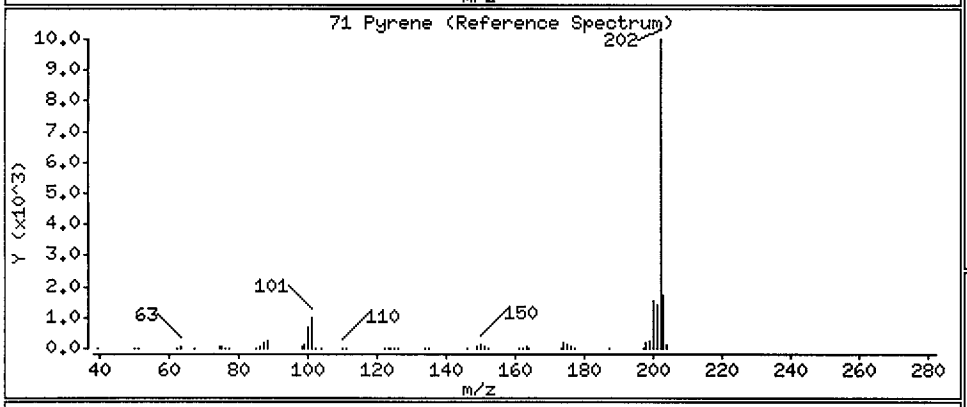
Column diameter: 0.25

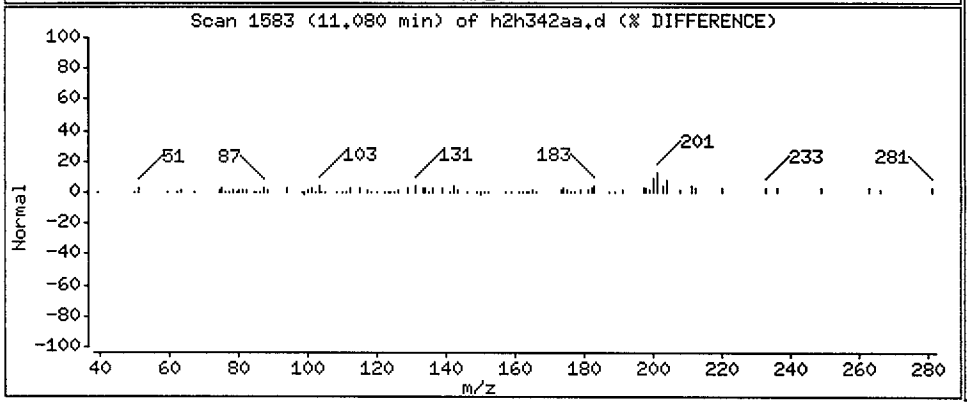
71 Pyrene

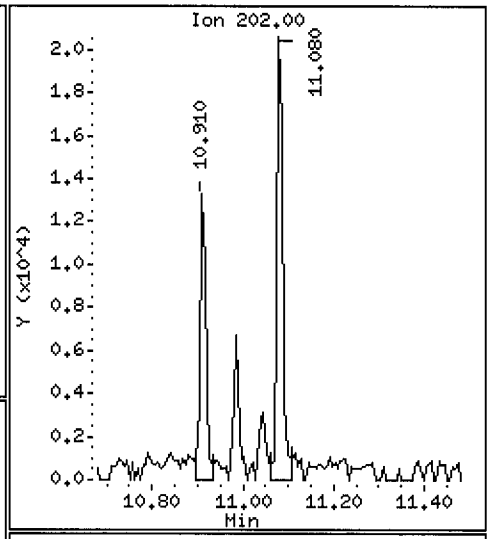
Concentration: 214 ug/Kg

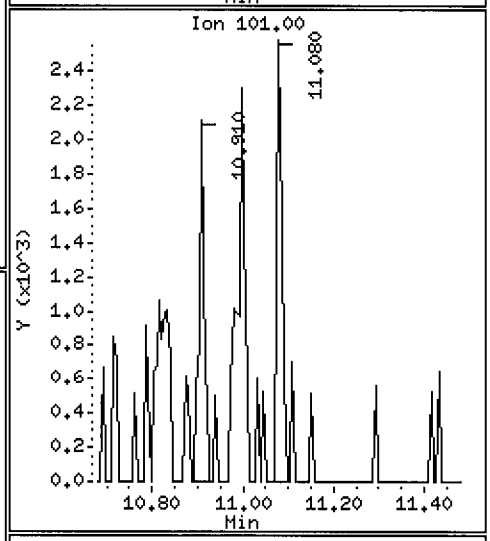


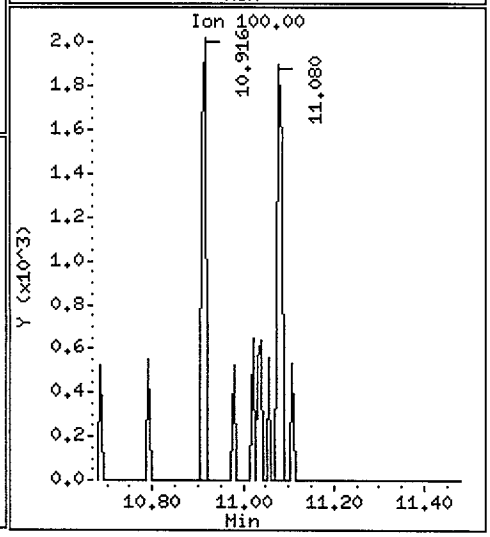












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

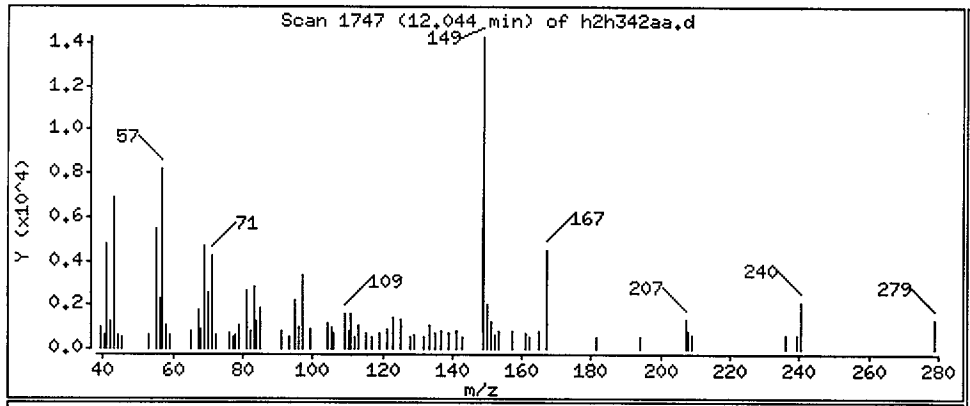
Operator: 60841

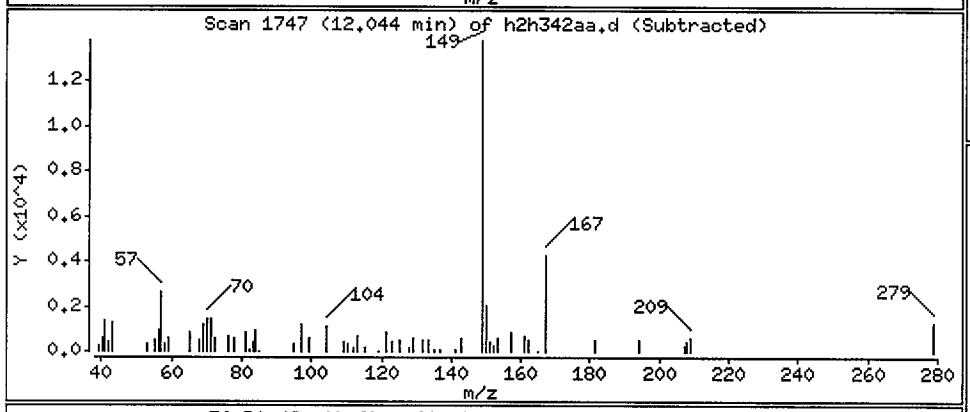
Column phase: ZB-5

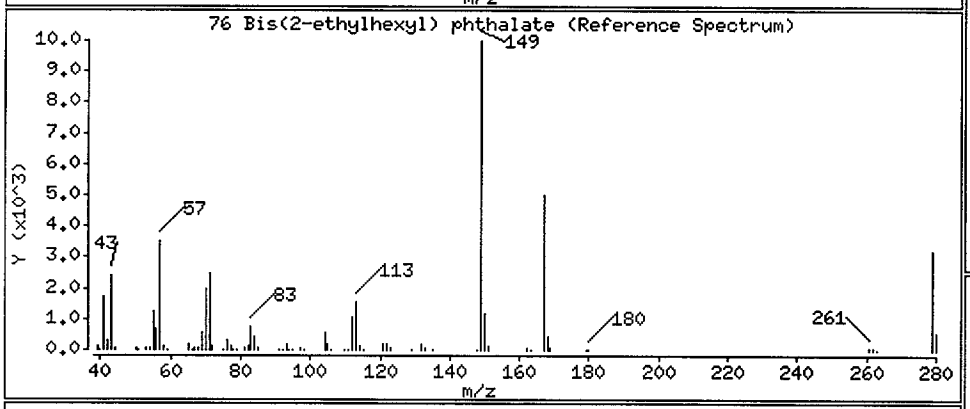
Column diameter: 0.25

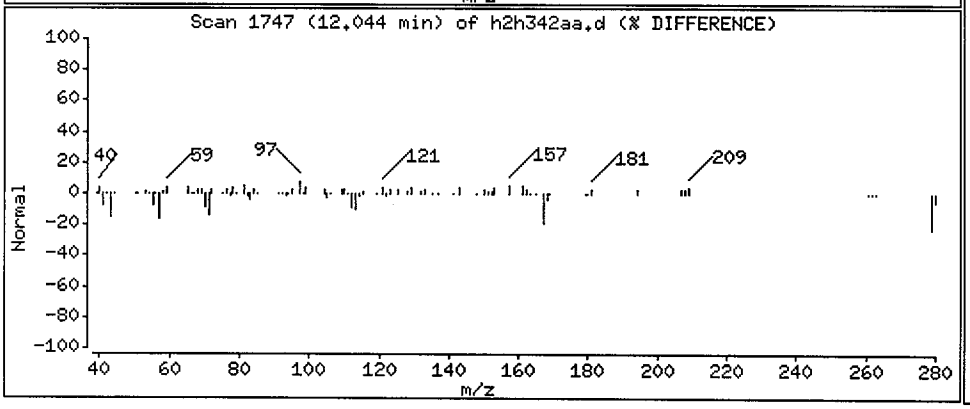
76 Bis(2-ethylhexyl) phthalate

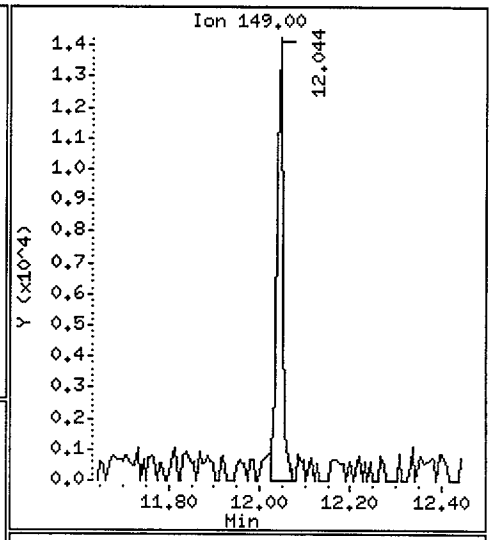
Concentration: 257 ug/Kg

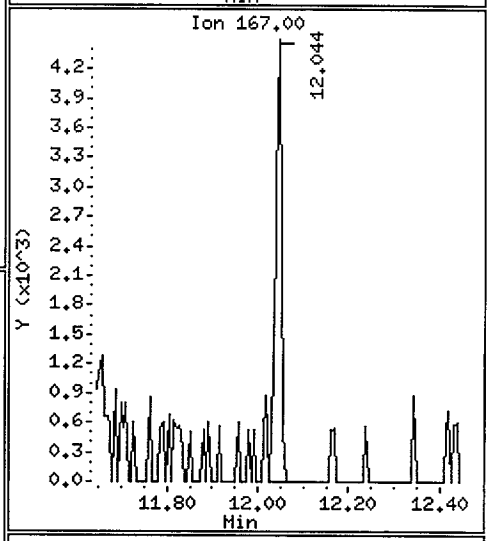


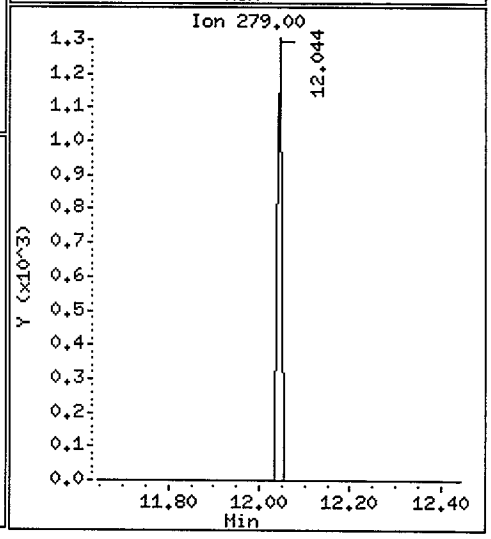












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

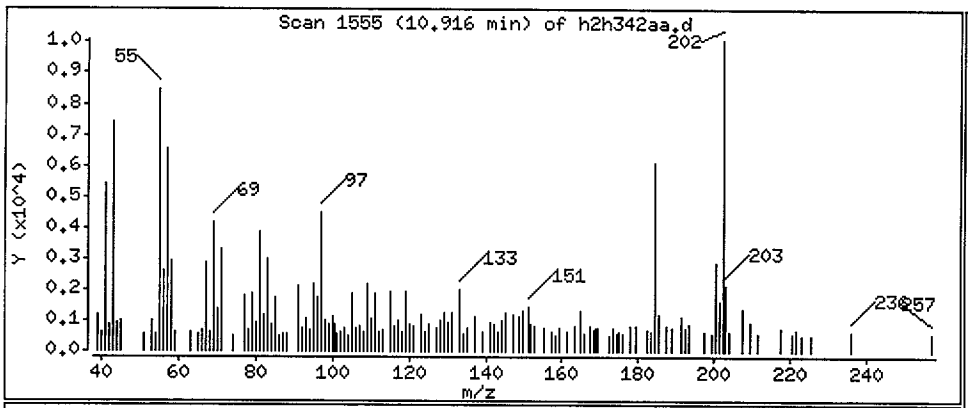
Operator: 60841

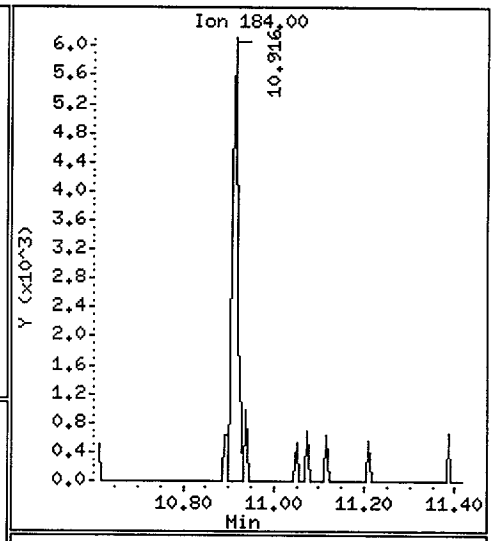
Column phase: ZB-5

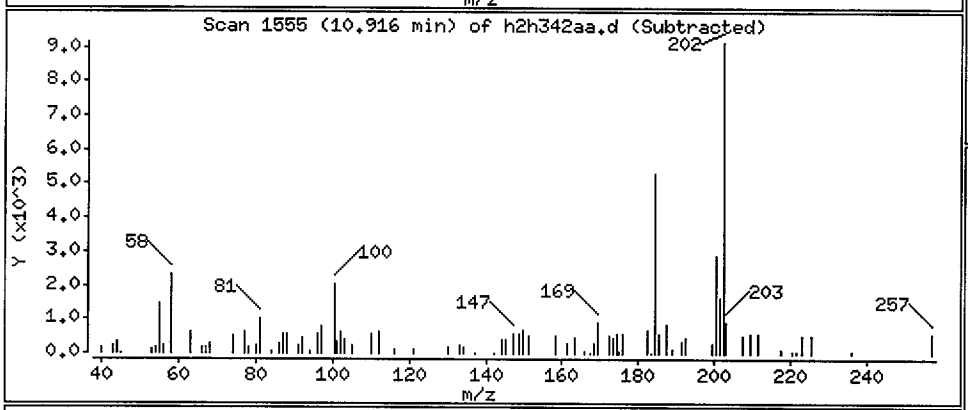
Column diameter: 0.25

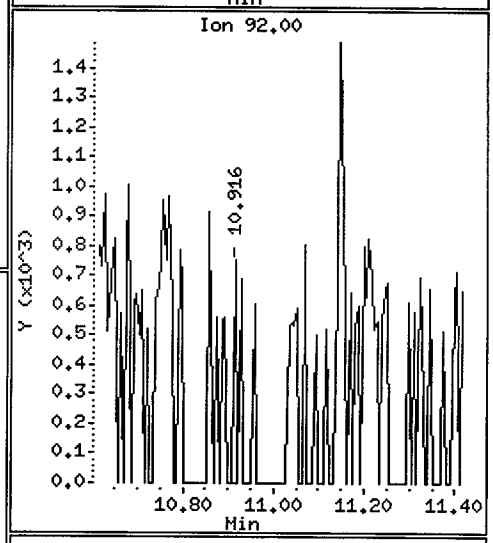
84 Benzidine

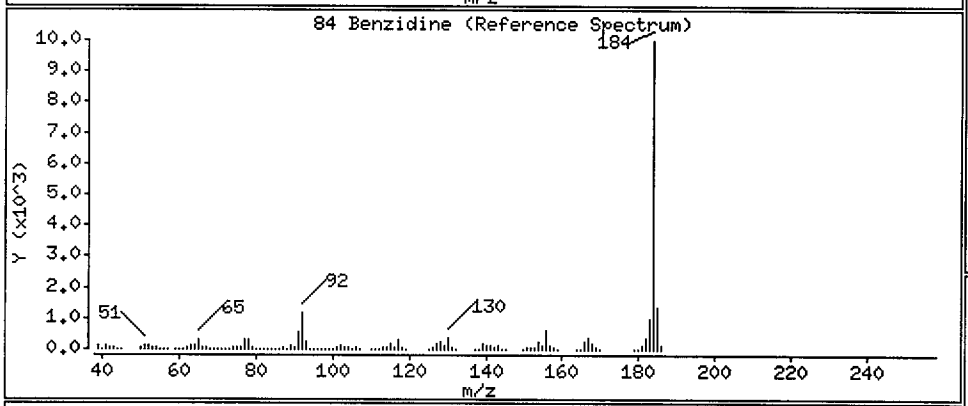
Concentration: 96.8 ug/Kg

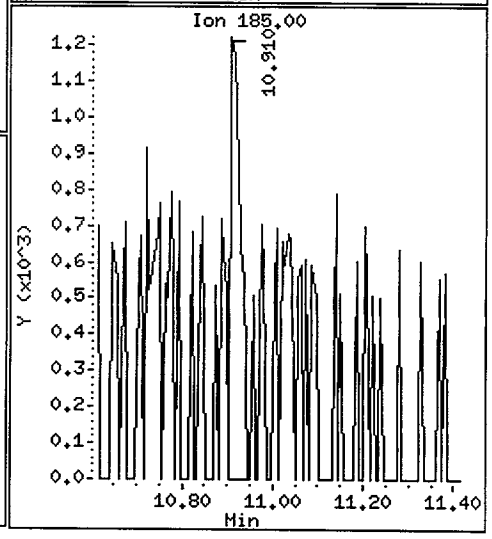


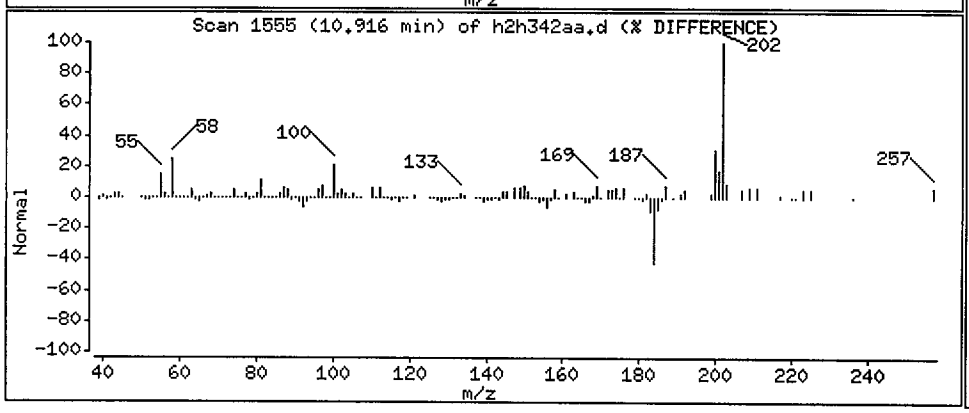












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

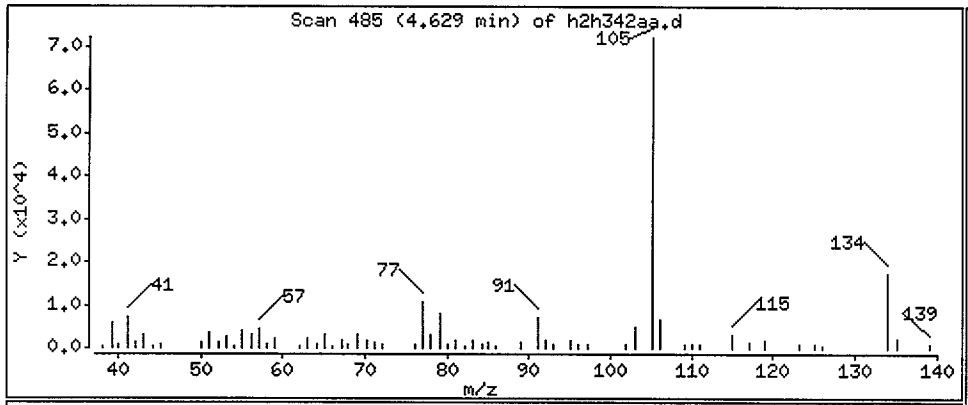
Operator: 60841

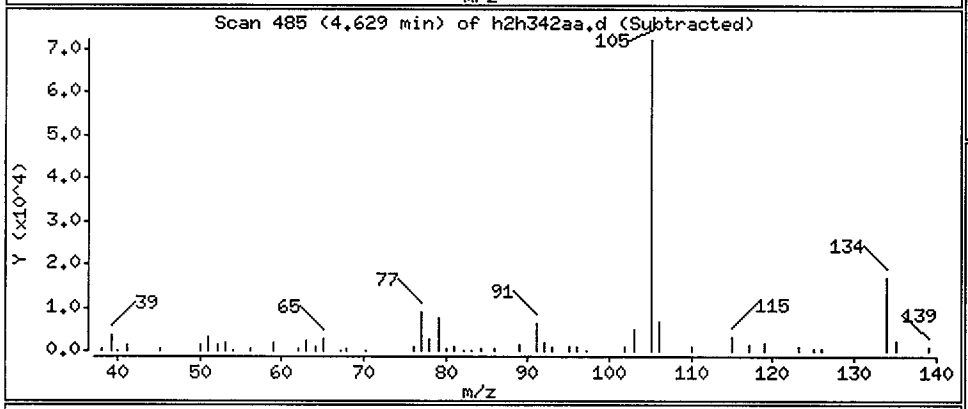
Column phase: ZB-5

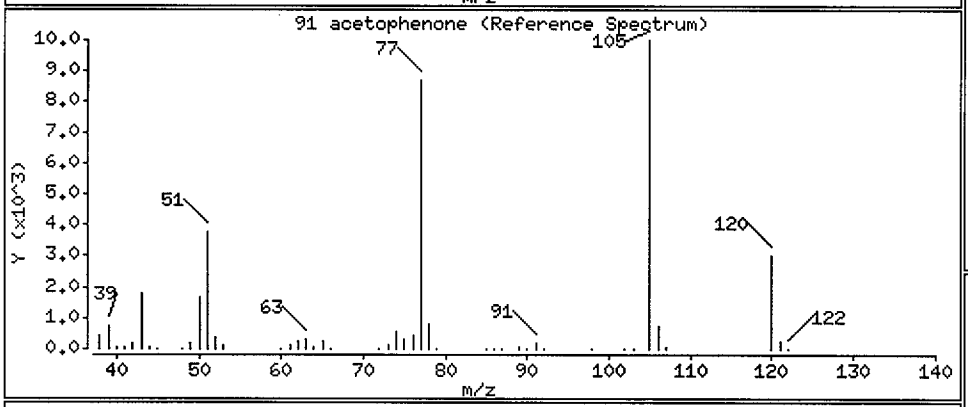
Column diameter: 0.25

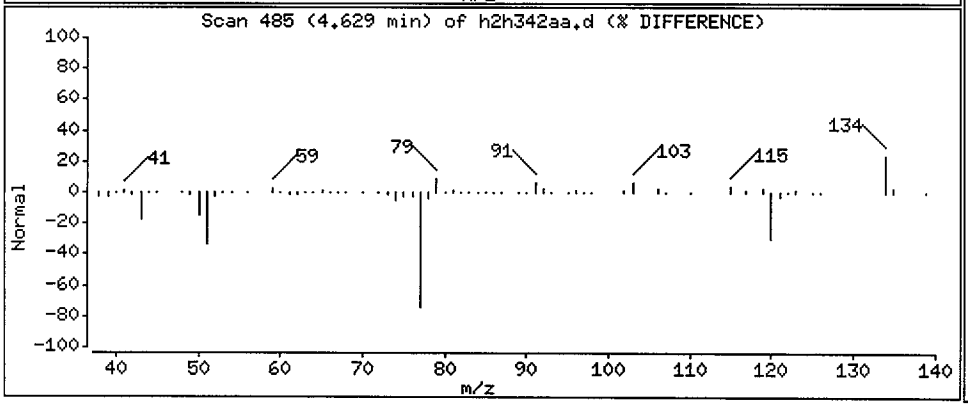
91 acetophenone

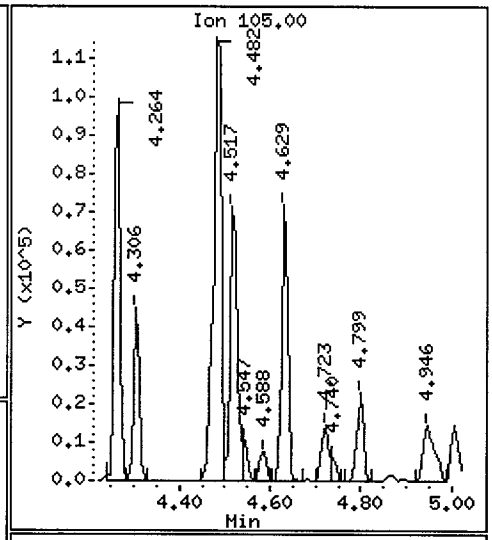
Concentration: 2340 ug/Kg

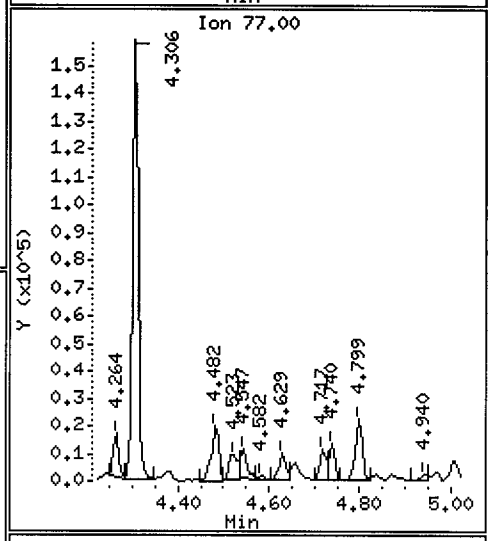


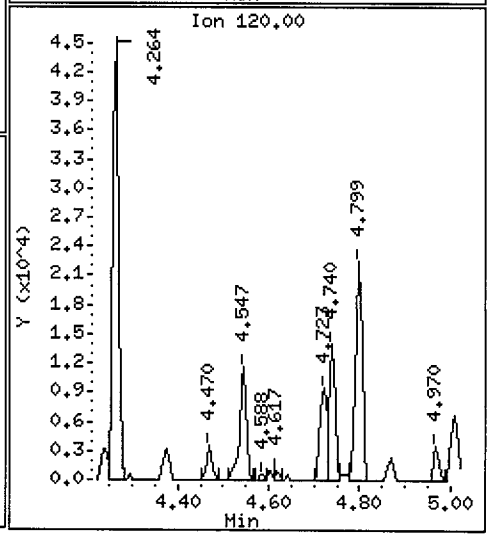












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

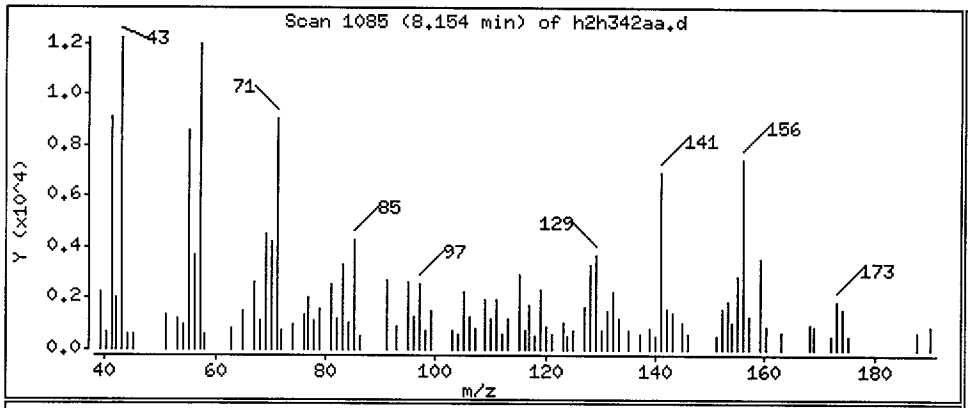
Operator: 60841

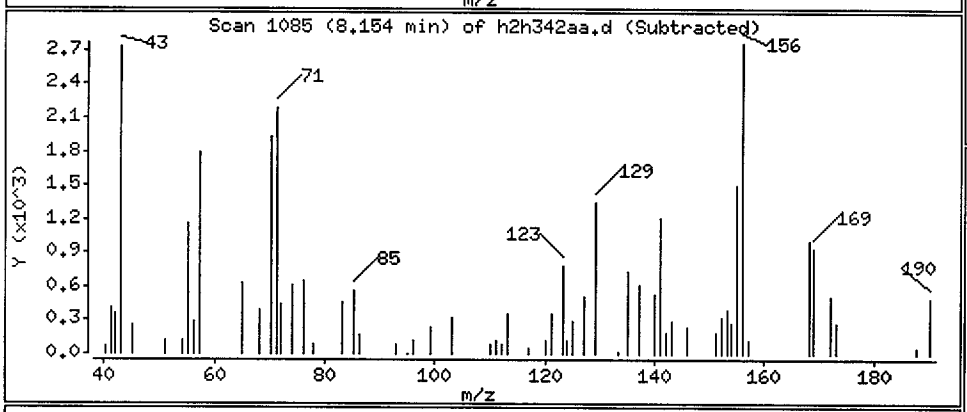
Column phase: ZB-5

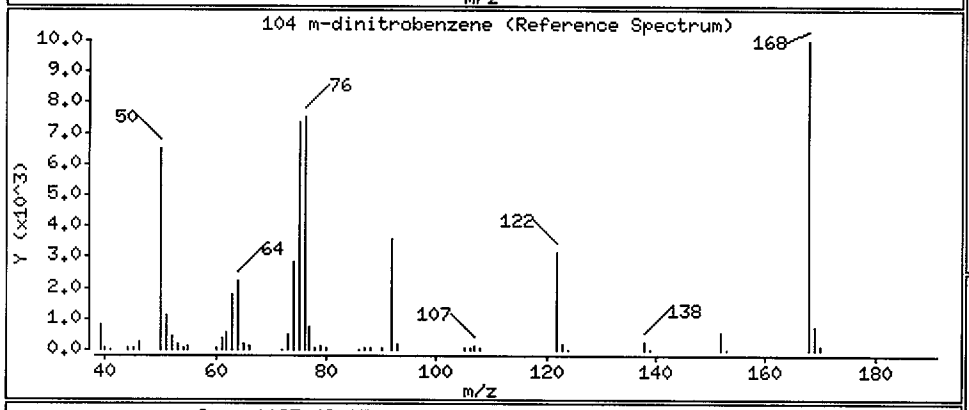
Column diameter: 0.25

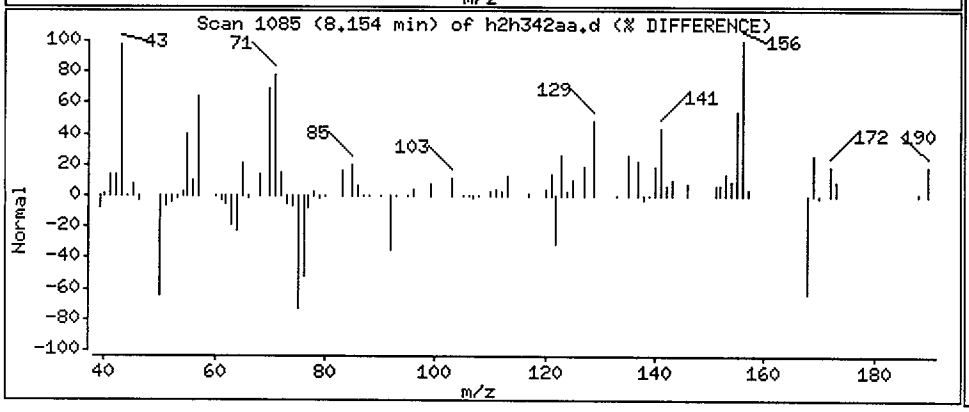
104 m-dinitrobenzene

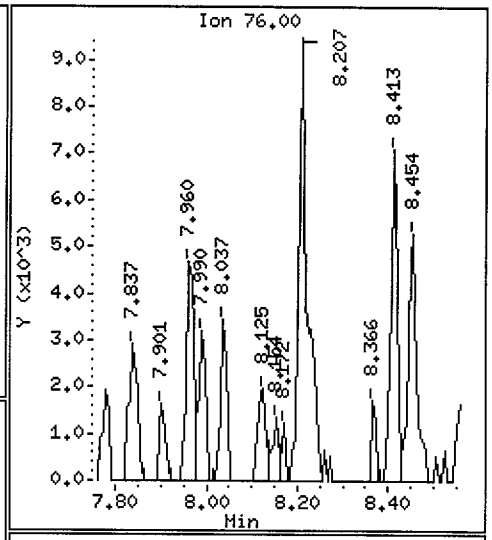
Concentration: 221 ug/Kg

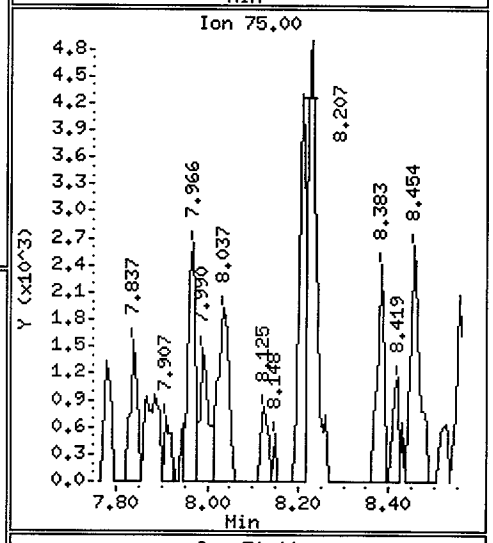


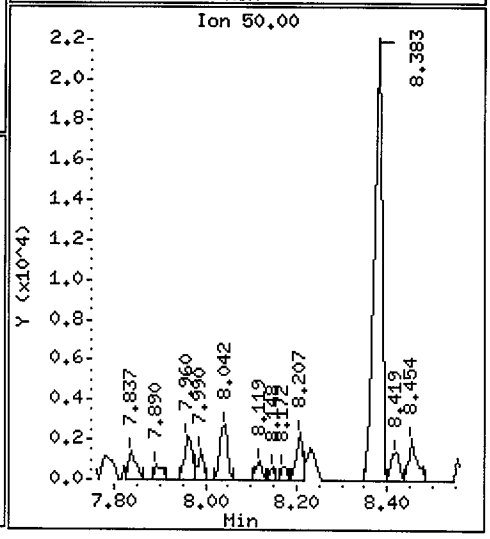












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0

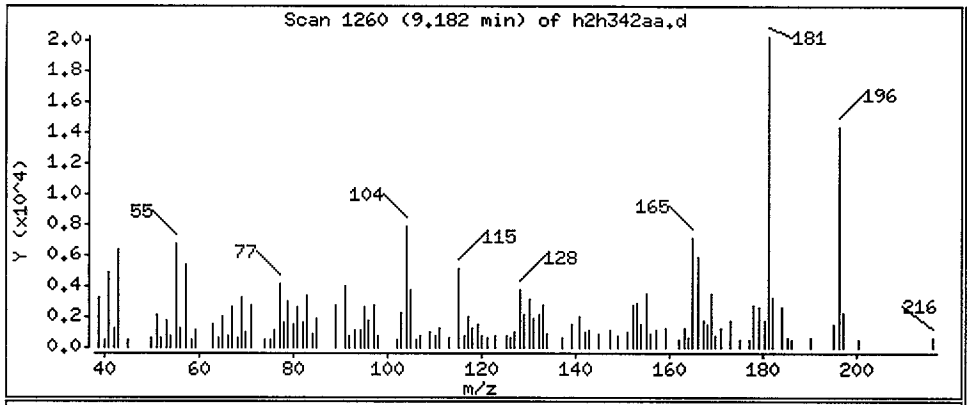
Operator: 60841

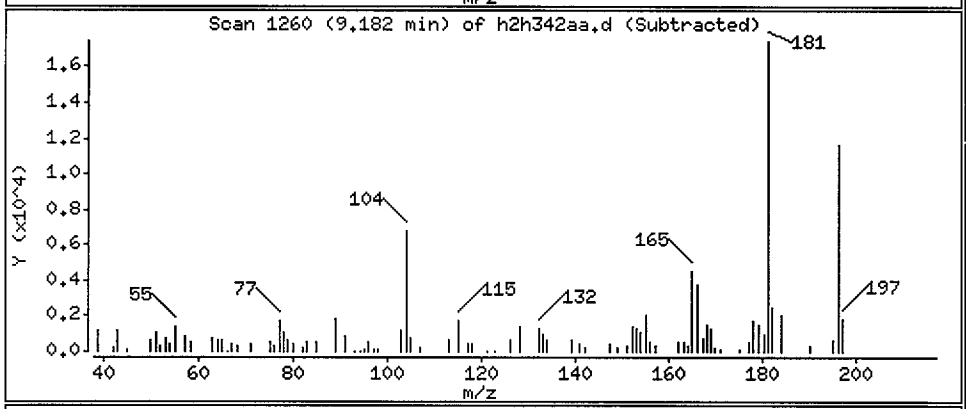
Column phase: ZB-5

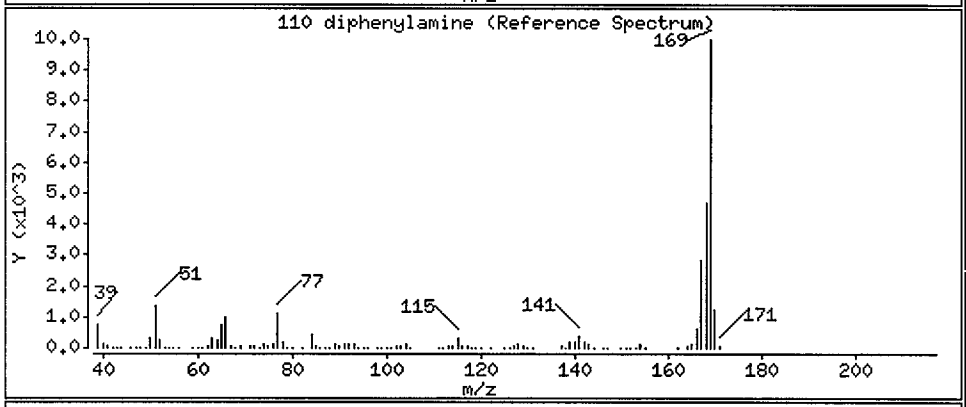
Column diameter: 0.25

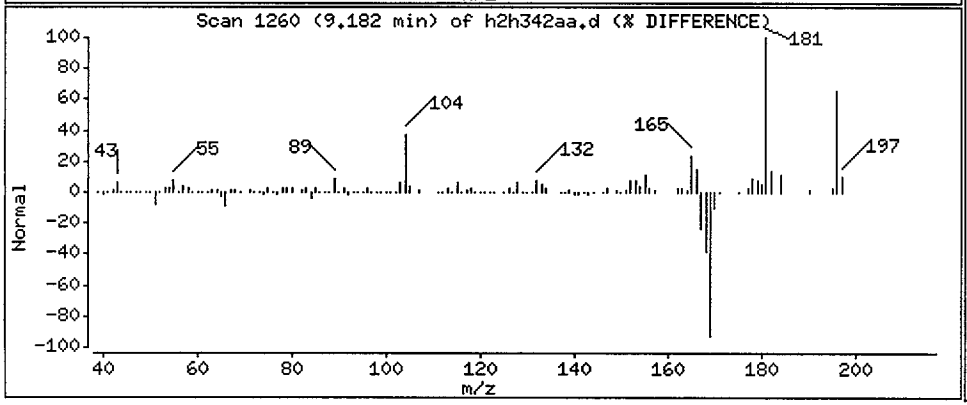
110 diphenylamine

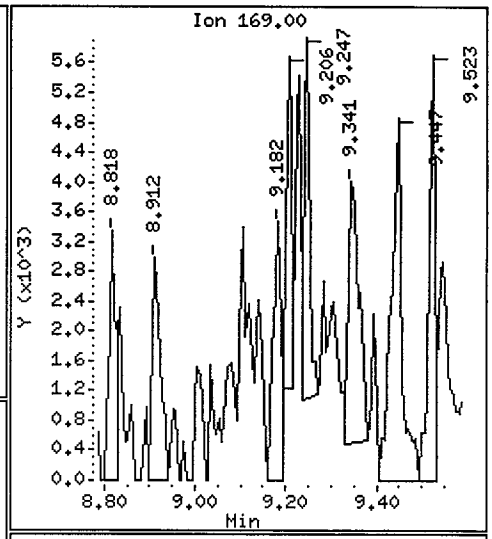
Concentration: 106 ug/Kg

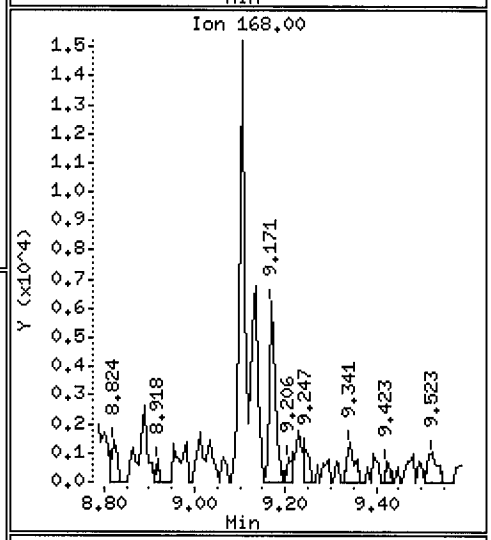


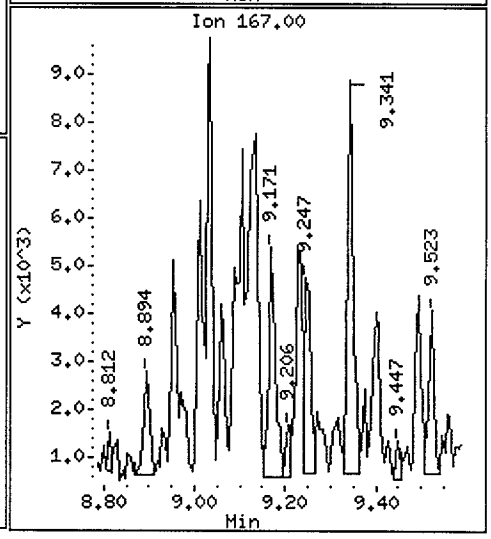












Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 15:21

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Lab Smp Id: H2H341AA Client Smp ID: G-2890-R1-SPENT ACT
Inj Date : 18-APR-2006 13:41
Operator : 60841 Inst ID: md.i
Smp Info : H2H341AA,5,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 9
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.165	464554	20.000
* 2 Naphthalene-d8	5.751	957178	20.000
* 3 Acenaphthene-d10	8.413	659726	20.000
* 5 Chrysene-d12	12.003	712772	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Toluene				CAS #: 108-88-3			
2.232	3334011	143.535994	23900	95	NIST05.1	2400	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 15:21

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Tetrachloroethylene					CAS #: 127-18-4		
2.537	3950923	170.095317	28300	98	NIST05.1	32250	1
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
2.766	9239123	397.763145	A 66300	56	NIST05.1	7952	1
Ethylbenzene					CAS #: 100-41-4		
2.937	820341	35.3173582	5890	95	NIST05.1	4955	1
p-Xylene					CAS #: 106-42-3		
3.001	2768500	119.189588	19900	97	NIST05.1	4946	1
Benzene, 1,3-dimethyl-					CAS #: 108-38-3		
3.195	1201883	51.7435217	8620	97	NIST05.1	4970	1
Ethanol, 2-butoxy-					CAS #: 111-76-2		
3.260	439737	18.9315774	3160	91	NIST05.1	8551	1
Benzene, (1-methylethyl)-					CAS #: 98-82-8		
3.448	953908	41.0676907	6840	94	NIST05.1	9114	1
Ethanol, 2,2'-oxybis-					CAS #: 111-46-6		
3.742	821526	35.3683748	5890	64	NIST05.1	4854	1
Benzene, 1,2,3-trimethyl-					CAS #: 526-73-8		
4.024	1027524	44.2370101	7370	83	NIST05.1	9115	1
Benzene, 1,3-diethyl-					CAS #: 141-93-5		
4.264	425890	18.3354357	3060	70	NIST05.1	14357	1
Limonene					CAS #: 138-86-3		
4.306	4830503	207.963036	34700	95	NIST05.1	15154	1
Benzene, 1-methyl-3-propyl-					CAS #: 1074-43-7		
4.482	431155	18.5621047	3090	90	NIST05.1	14369	1
Benzene, 1-methyl-3-(1-methylethyl)-					CAS #: 535-77-3		
4.547	353449	15.2167025	2540	95	NIST05.1	14421	1
Benzene, 2-ethyl-1,3-dimethyl-					CAS #: 2870-04-4		
4.740	349822	15.0605527	2510	95	NIST05.1	14392	1
Undecane					CAS #: 1120-21-4		
4.881	638851	27.5038424	4580	91	NIST05.1	27240	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d
Report Date: 19-Apr-2006 15:21

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
5.099	441583	9.22676869	1540	93	NIST05.1	14384	2
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
5.140	889299	18.5816849	3100	96	NIST05.1	14385	2
3-Phenylbut-1-ene					CAS #: 934-10-1		
5.440	403985	8.44116768	1410	70	NIST05.1	13589	2
Decane, 3,6-dimethyl-					CAS #: 17312-53-7		
5.810	519730	10.8596311	1810	78	NIST05.1	36456	2
Tridecane					CAS #: 629-50-5		
6.703	503122	10.5126110	1750	93	NIST05.1	46086	2
Naphthalene, 2-methyl-					CAS #: 91-57-6		
6.944	716527	14.9716563	2500	91	NIST05.1	18567	2
Biphenyl					CAS #: 92-52-4		
7.602	297238	9.01095303	1500	95	NIST05.1	25992	3
Tetradecane					CAS #: 629-59-4		
7.684	656428	19.9000191	3320	97	NIST05.1	55975	3
Naphthalene, 2,3-dimethyl-					CAS #: 581-40-8		
7.966	312858	9.48448295	1580	97	NIST05.1	27300	3
Heptadecane, 2,6,10,14-tetramethyl-					CAS #: 18344-37-1		
8.178	341654	10.3574514	1730	83	NIST05.1	122446	3
cis-1,2,3,6-Tetrahydrophthalimide					CAS #: 27813-21-4		
8.383	1311404	39.7560199	6630	96	NIST05.1	23873	3
1,1'-Biphenyl, 2,3'-dimethyl-					CAS #: 611-43-8		
8.677	272826	8.27088822	1380	94	NIST05.1	44675	3
Diethyltoluamide					CAS #: 134-62-3		
8.959	520537	15.7803997	2630	97	NIST05.1	50548	3
Ethanol, 2-butoxy-, phosphate (3:1)					CAS #: 78-51-3		
11.656	837614	23.5029996	3920	68	NIST05.1	170615	5

Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

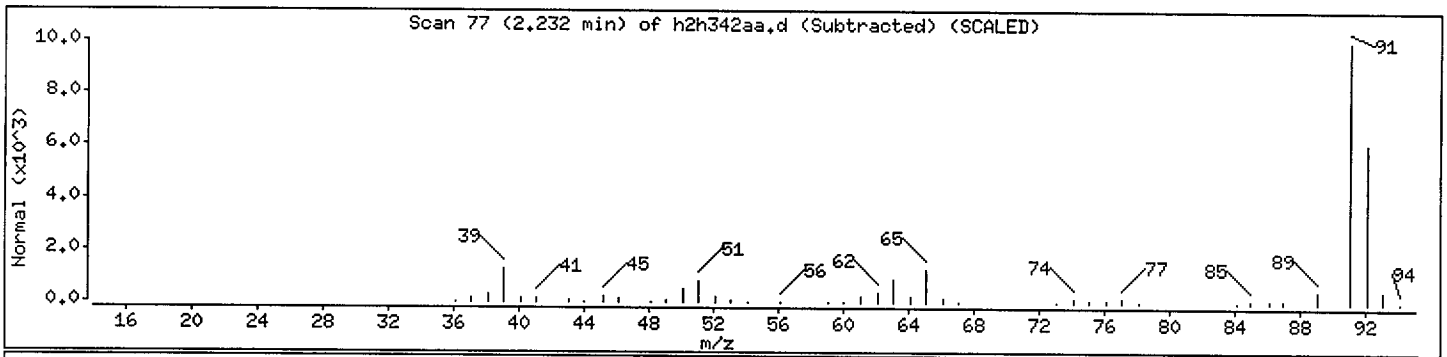
Volume Injected (uL): 1.0

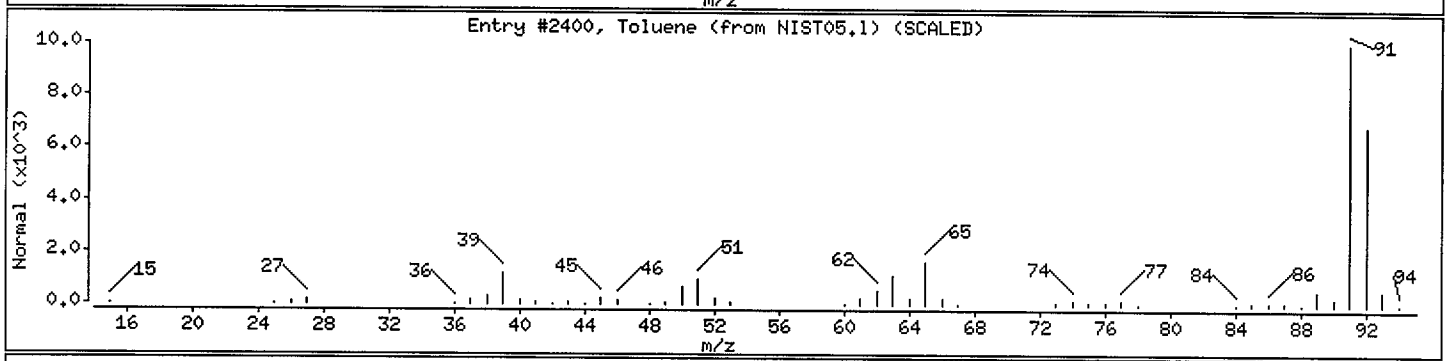
Operator: 60841

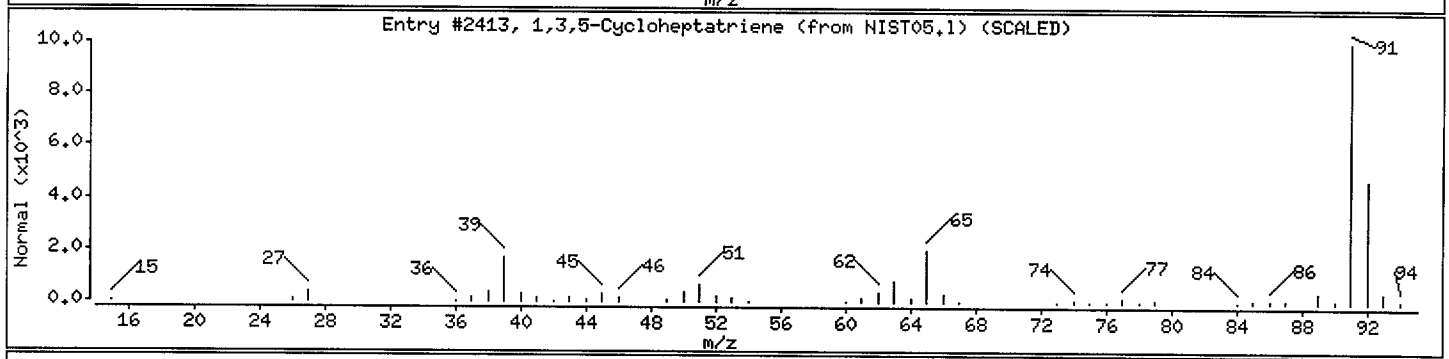
Column phase: ZB-5

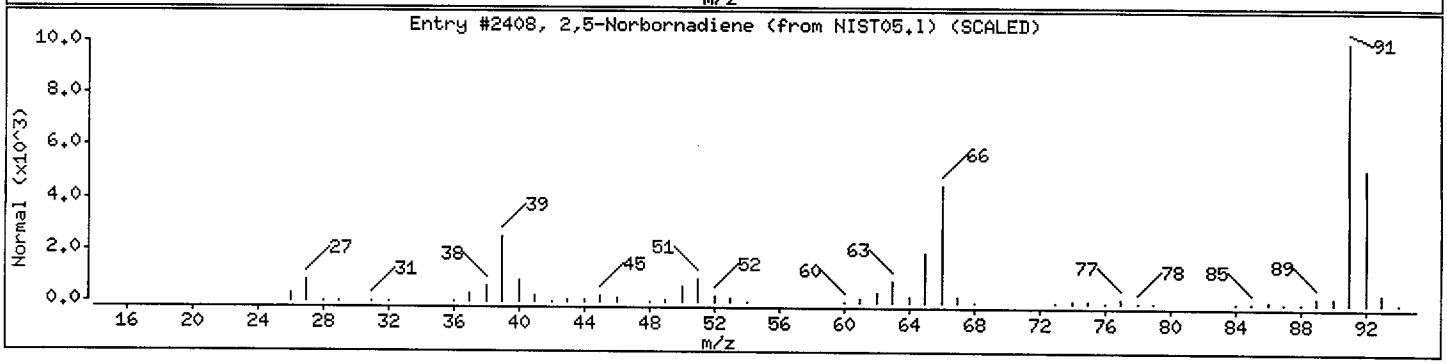
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	NIST05.1	2400	95	C7H8	92
1,3,5-Cycloheptatriene	544-25-2	NIST05.1	2413	90	C7H8	92
2,5-Norbornadiene	121-46-0	NIST05.1	2408	83	C7H8	92









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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

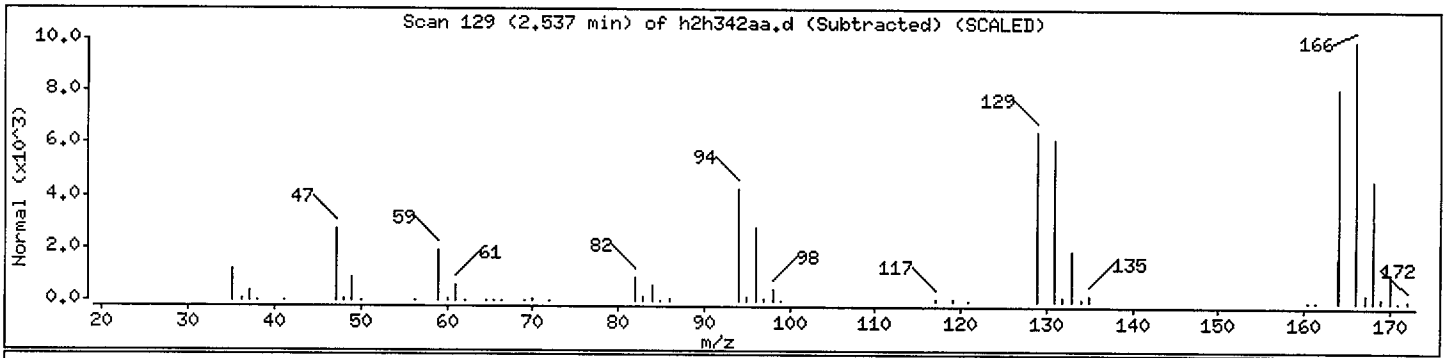
Volume Injected (uL): 1.0

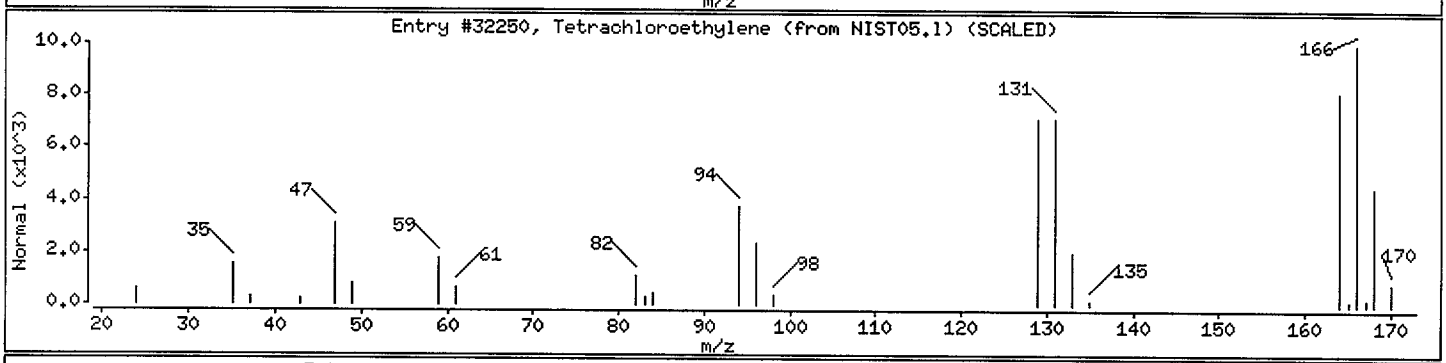
Operator: 60841

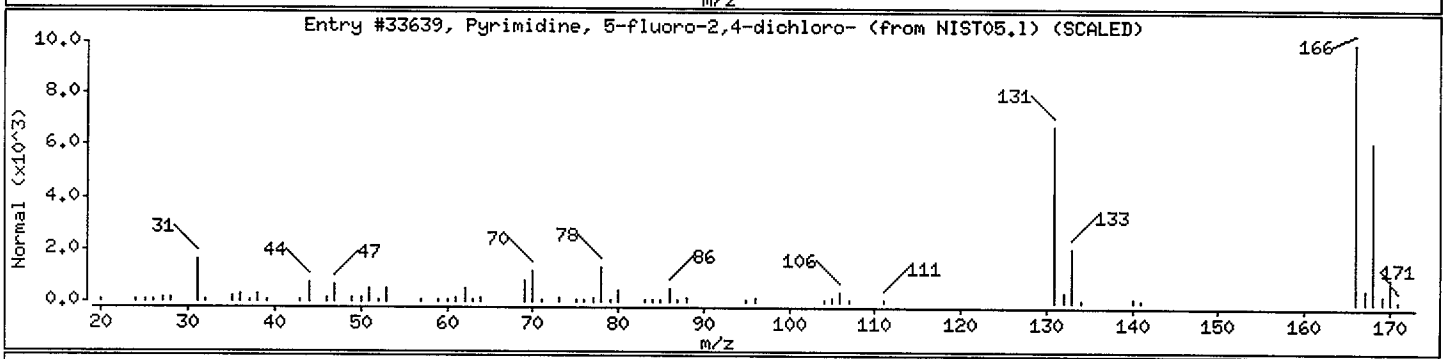
Column phase: ZB-5

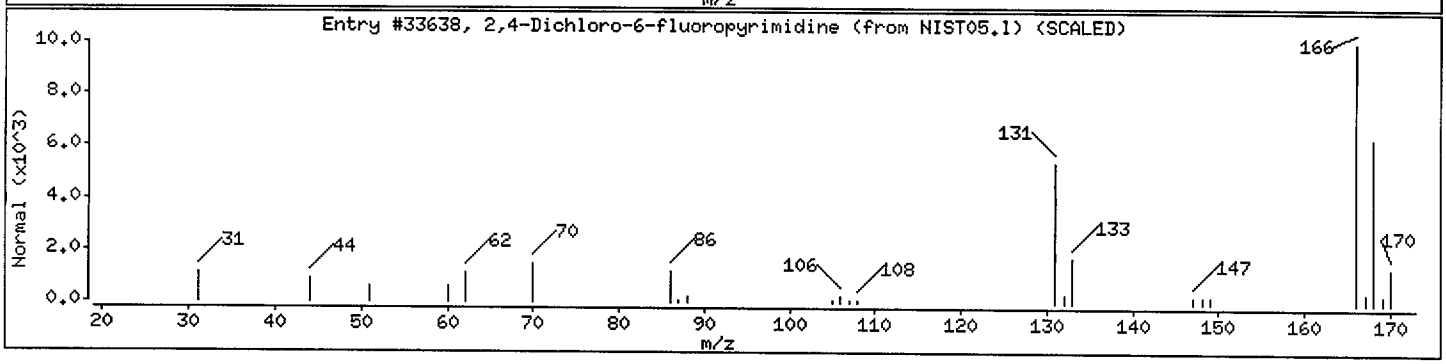
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetrachloroethylene	127-18-4	NIST05.1	32250	98	C2Cl4	164
Pyrimidine, 5-fluoro-2,4-dichloro-	2927-71-1	NIST05.1	33639	38	C4HCl2FN2	166
2,4-Dichloro-6-fluoropyrimidine	3833-57-6	NIST05.1	33638	35	C4HCl2FN2	166









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Date : 18-APR-2006 13:41

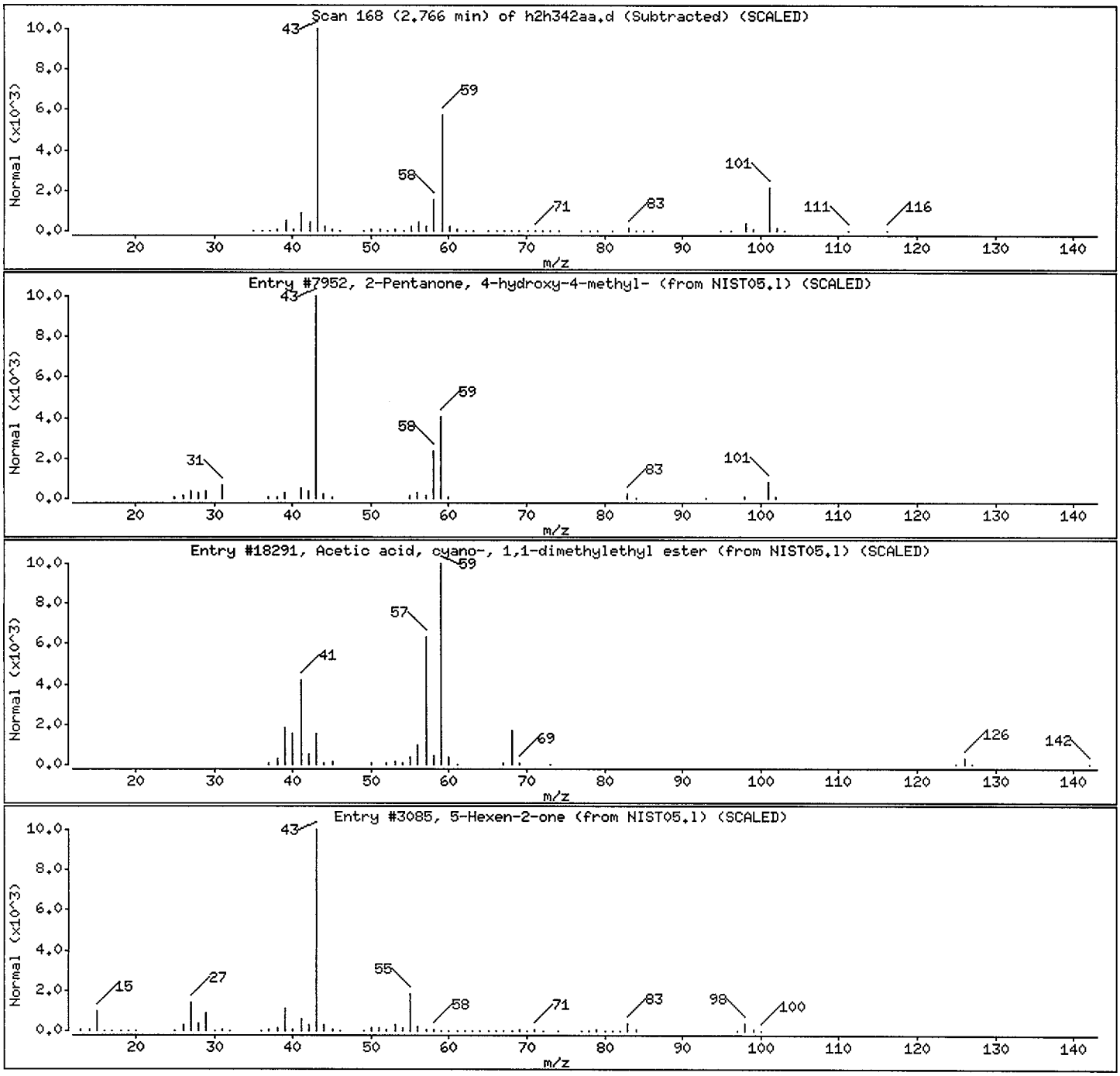
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.1	7952	56	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.1	18291	17	C7H11NO2	141
5-Hexen-2-one	109-49-9	NIST05.1	3085	9	C6H10O	98



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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

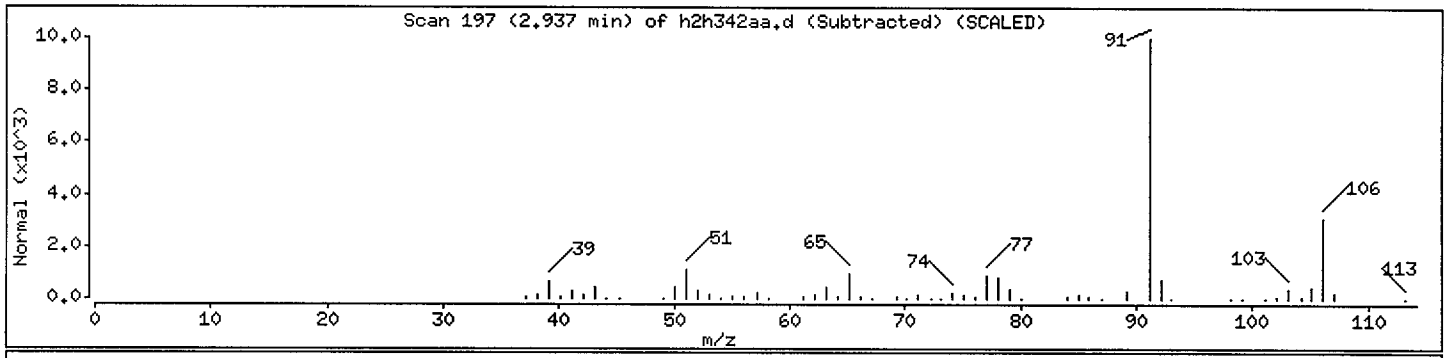
Volume Injected (uL): 1.0

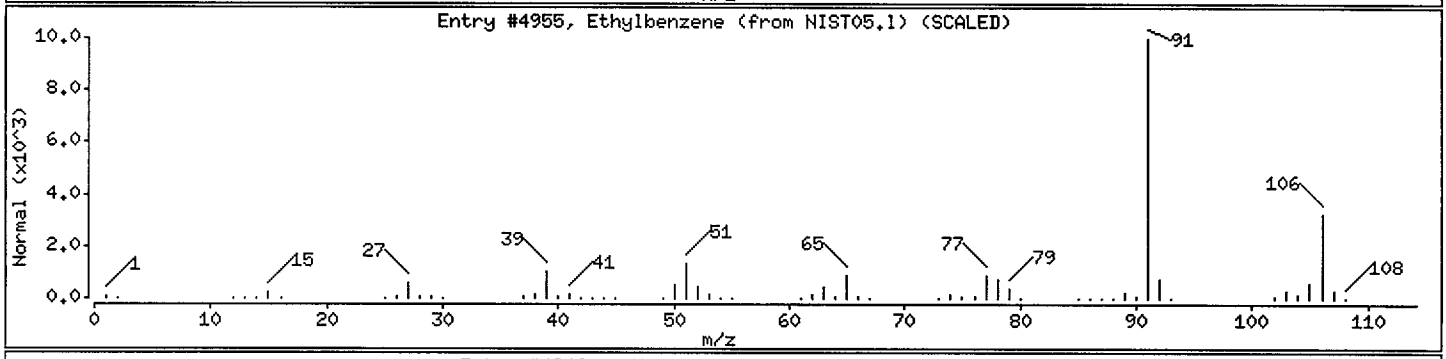
Operator: 60841

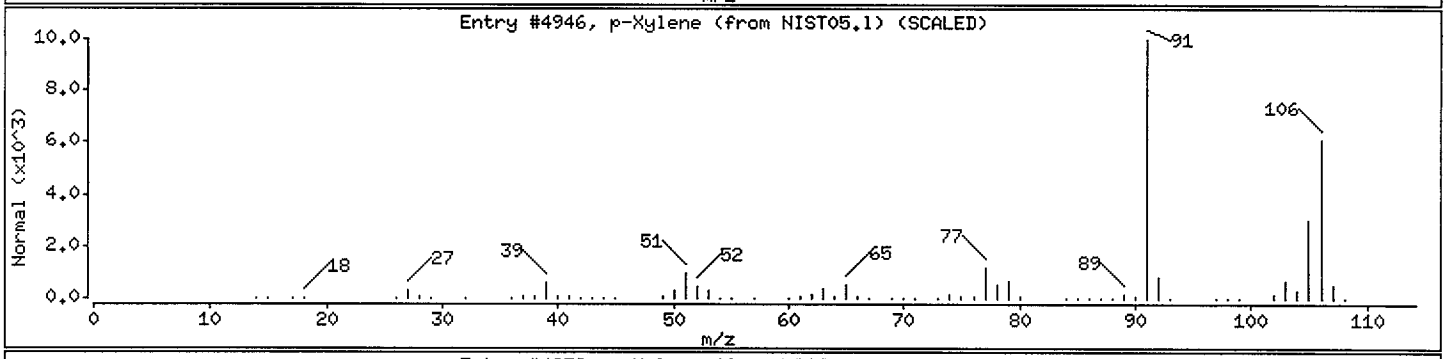
Column phase: ZB-5

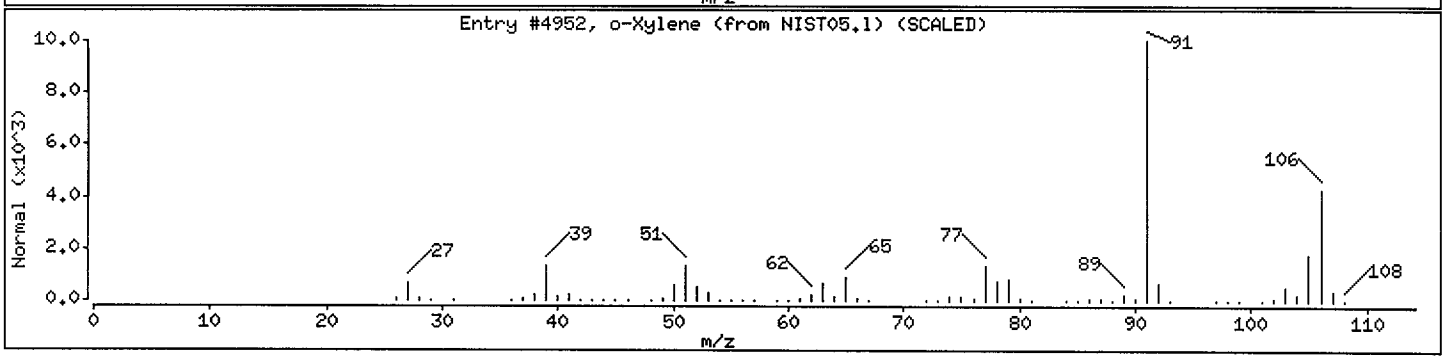
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethylbenzene	100-41-4	NIST05.1	4955	95	C8H10	106
p-Xylene	106-42-3	NIST05.1	4946	86	C8H10	106
o-Xylene	95-47-6	NIST05.1	4952	83	C8H10	106









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Date : 18-APR-2006 13:41

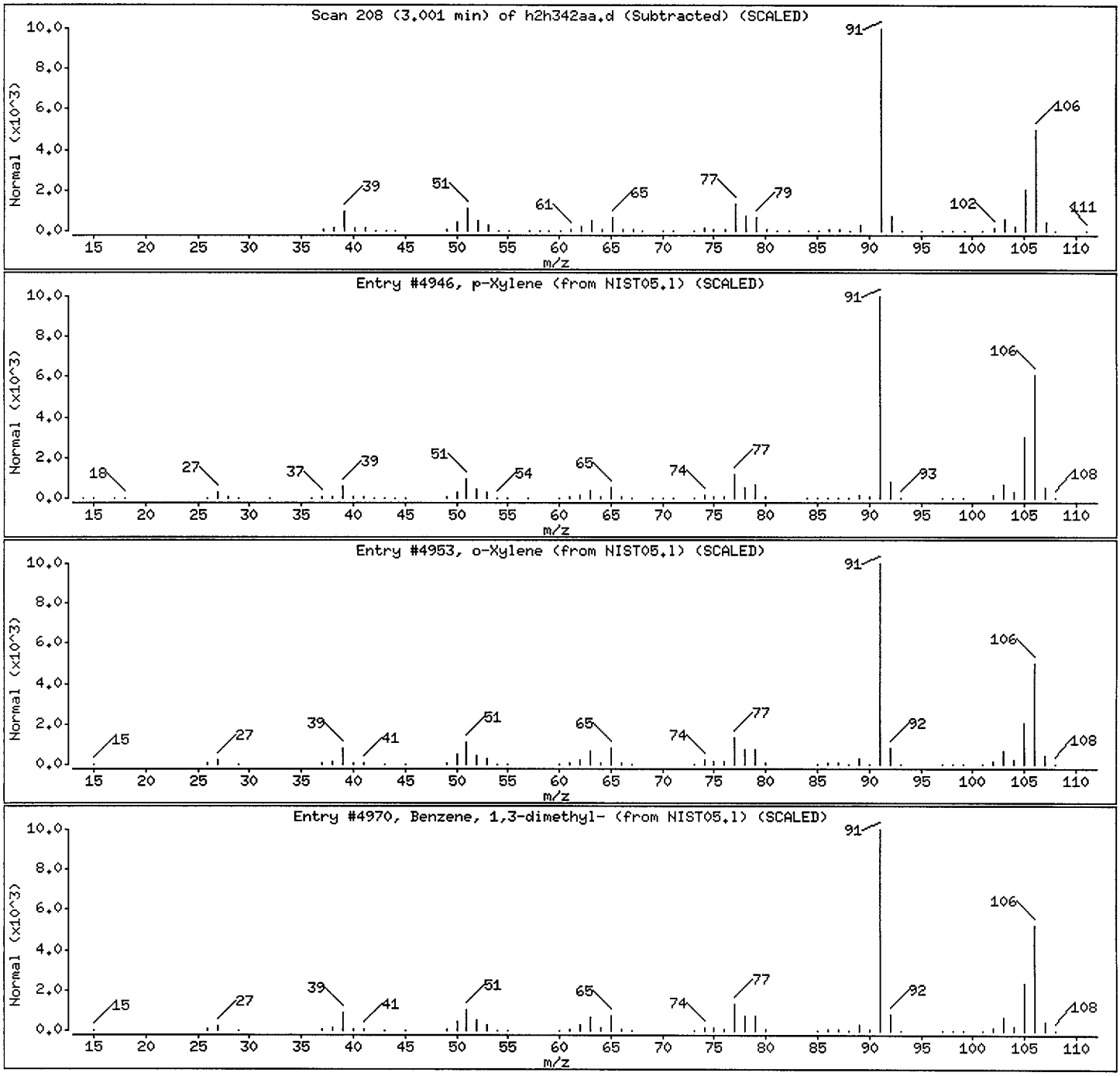
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
p-Xylene	106-42-3	NIST05.1	4946	97	C8H10	106
o-Xylene	95-47-6	NIST05.1	4953	97	C8H10	106
Benzene, 1,3-dimethyl-	108-38-3	NIST05.1	4970	97	C8H10	106



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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

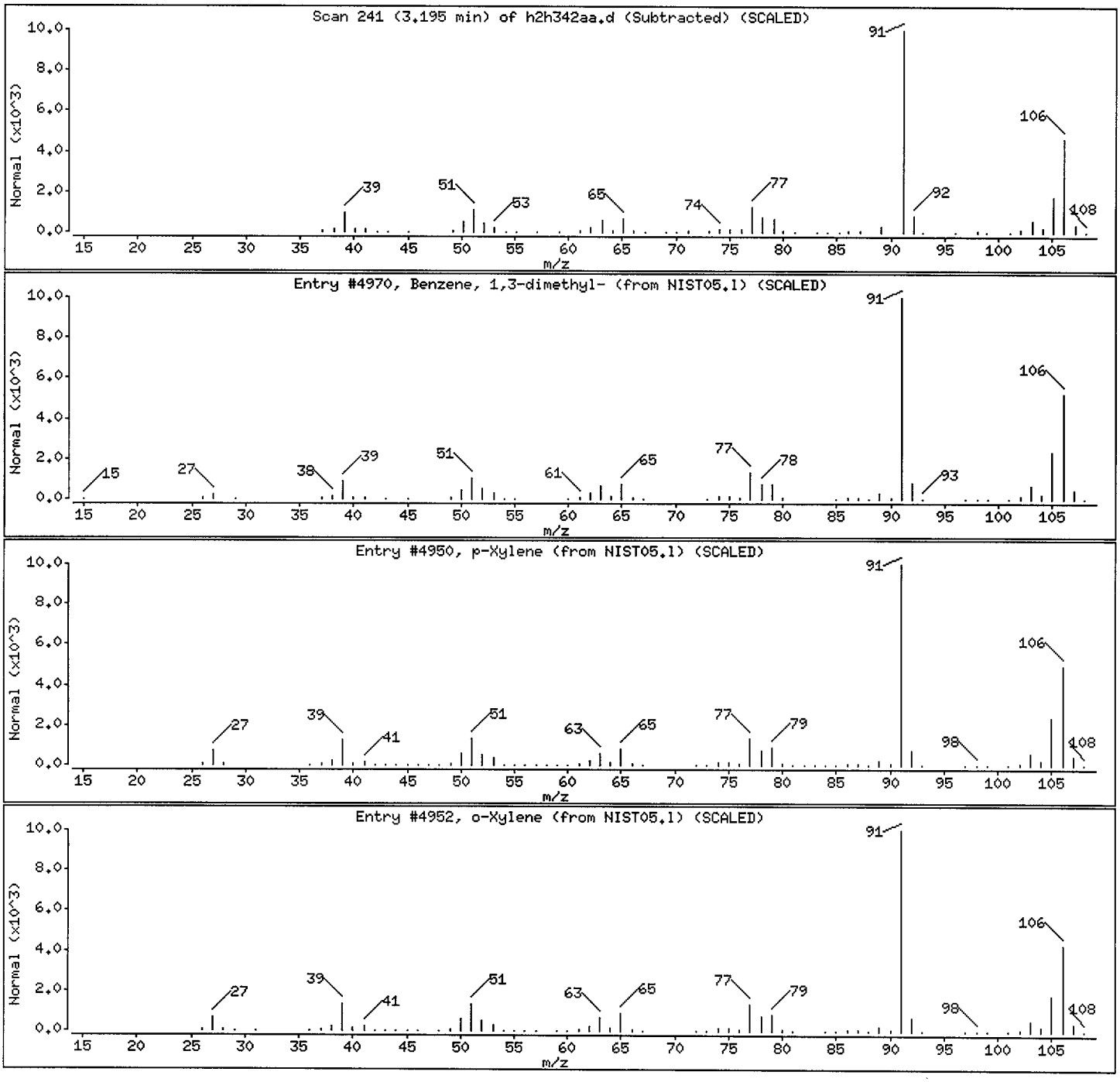
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,3-dimethyl-	108-38-3	NIST05.1	4970	97	C8H10	106
p-Xylene	106-42-3	NIST05.1	4950	97	C8H10	106
o-Xylene	95-47-6	NIST05.1	4952	97	C8H10	106



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

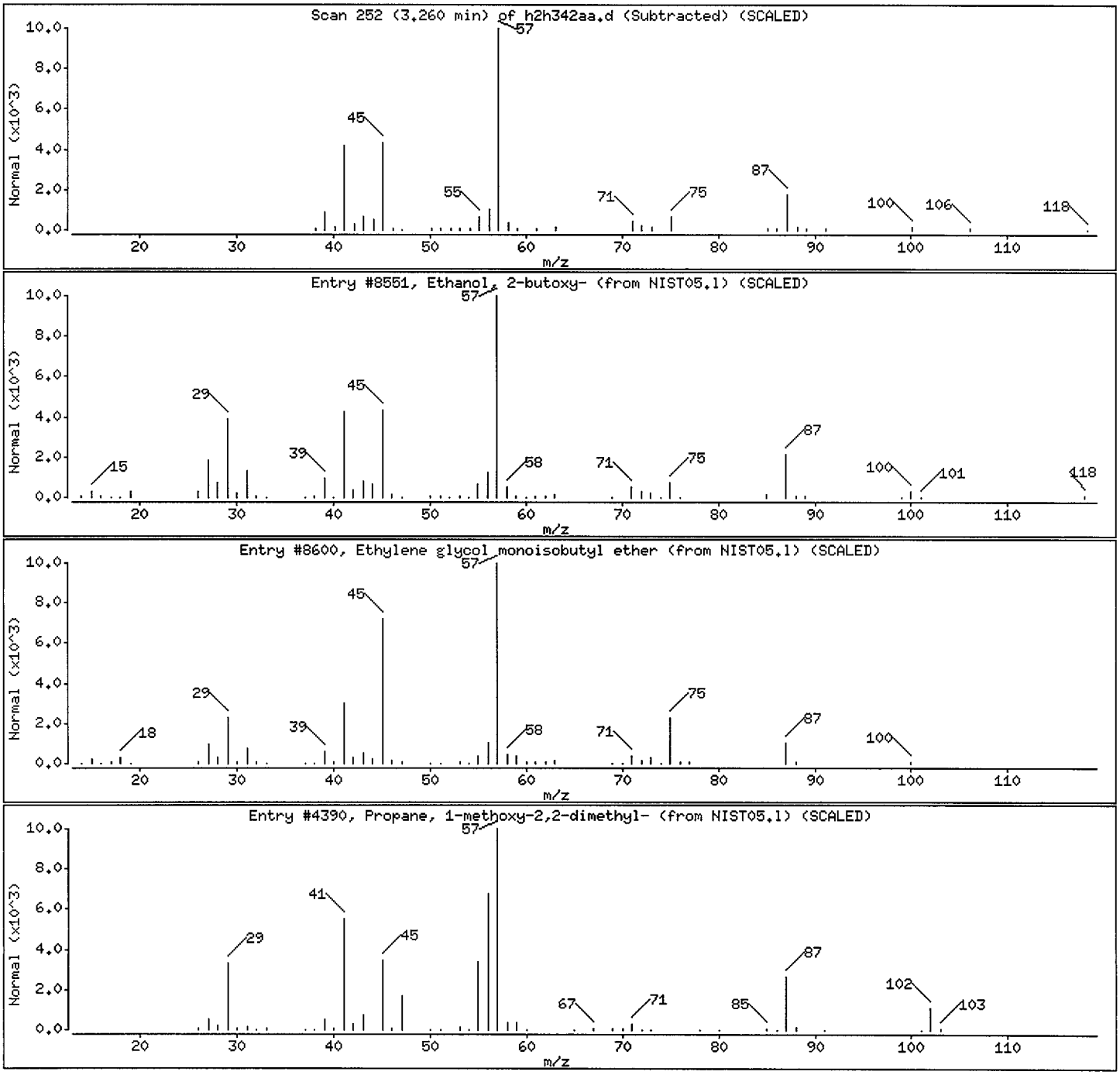
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-	111-76-2	NIST05.1	8551	91	C6H14O2	118
Ethylene glycol monoisobutyl ether	4439-24-1	NIST05.1	8600	59	C6H14O2	118
Propane, 1-methoxy-2,2-dimethyl-	1118-00-9	NIST05.1	4390	38	C6H14O	102



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

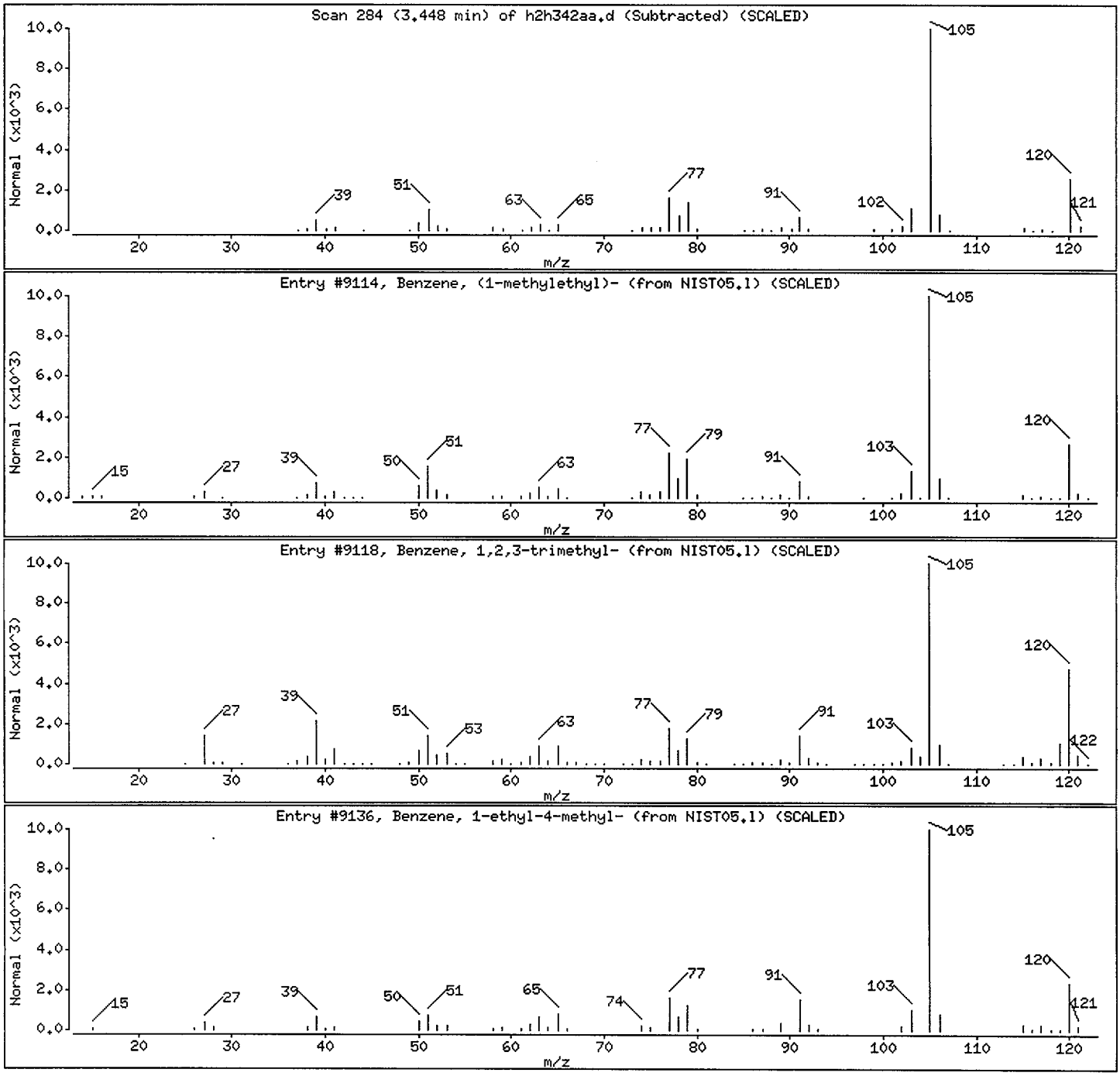
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (1-methylethyl)-	98-82-8	NIST05.1	9114	94	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.1	9118	90	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST05.1	9136	72	C9H12	120



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

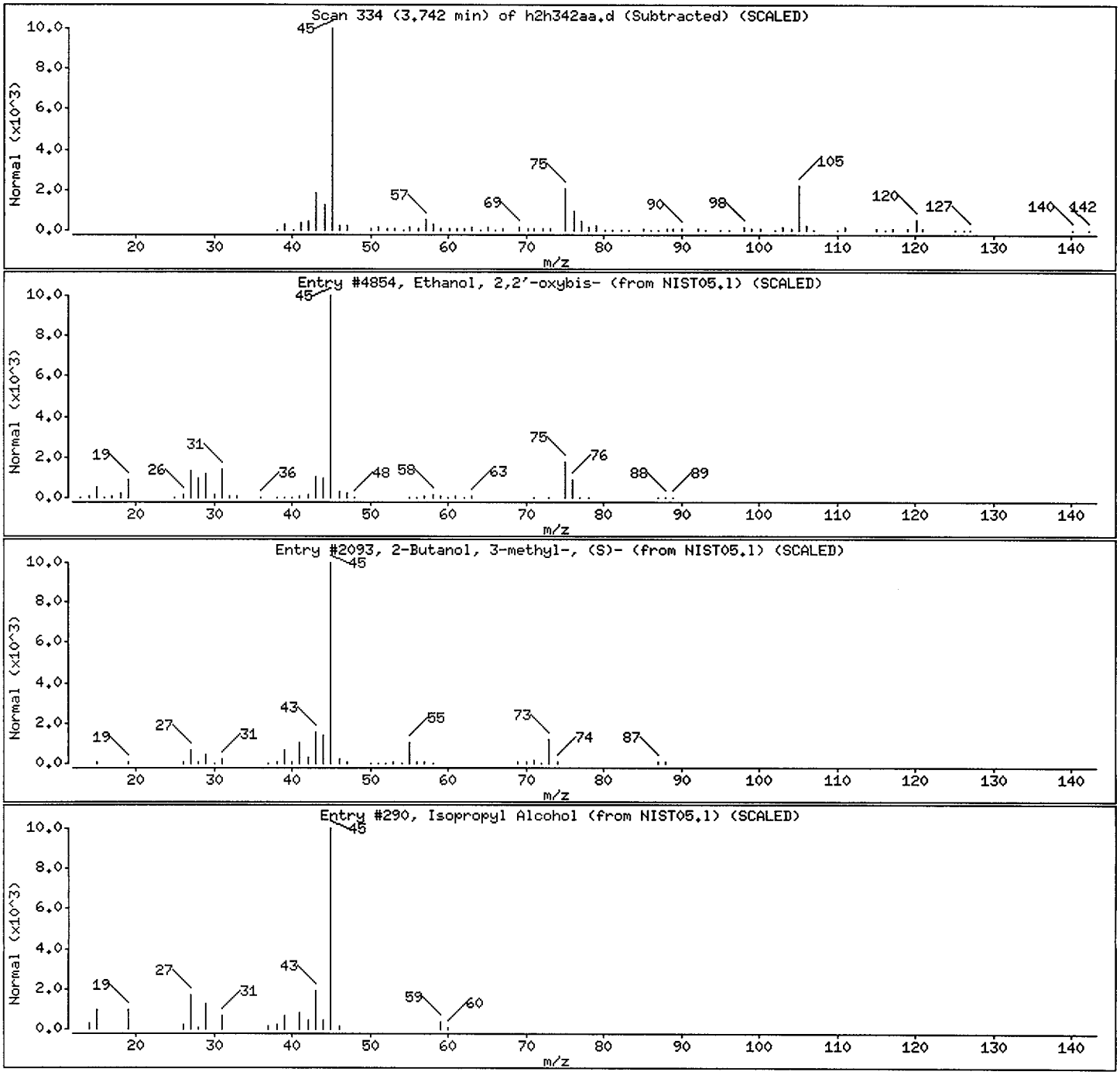
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2,2'-oxybis-	111-46-6	NIST05.1	4854	64	C4H10O3	106
2-Butanol, 3-methyl-, (S)-	1517-66-4	NIST05.1	2093	38	C5H12O	88
Isopropyl Alcohol	67-63-0	NIST05.1	290	37	C3H8O	60



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

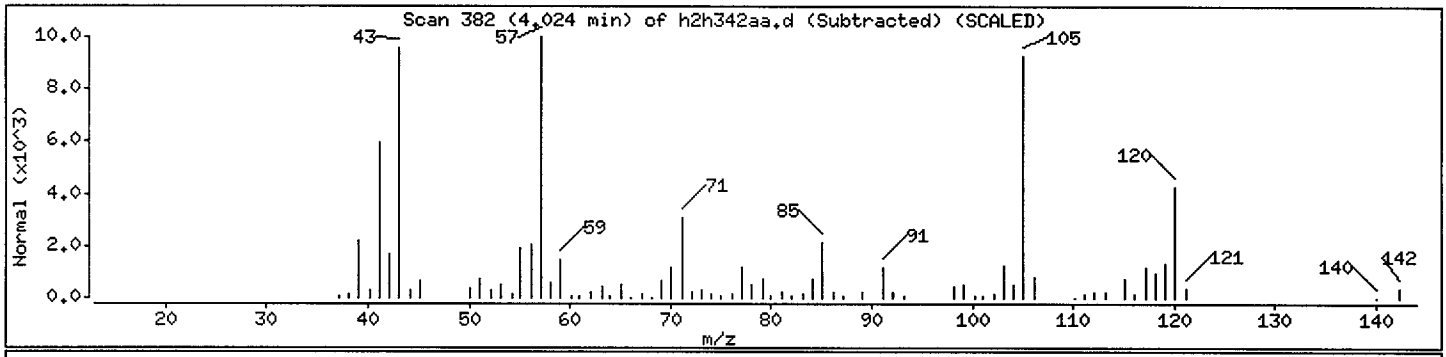
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

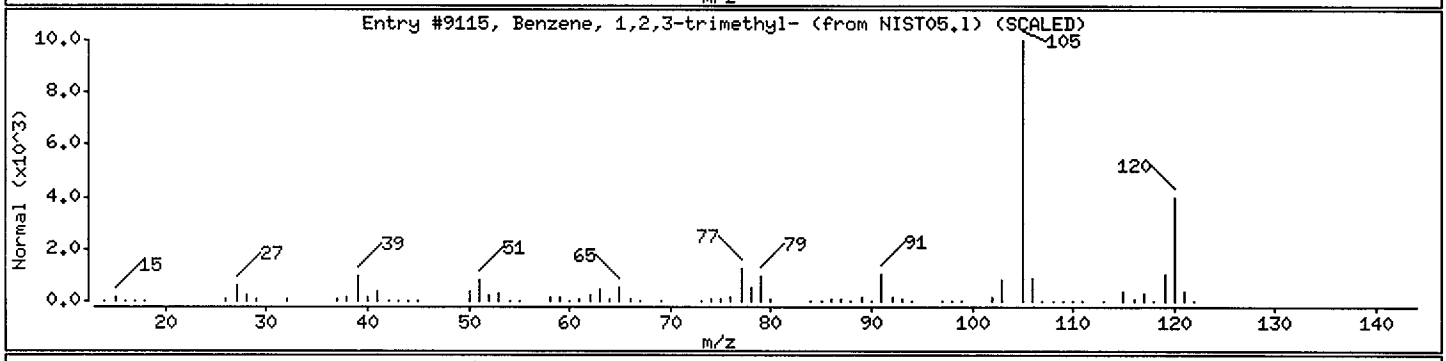
Sample Info: H2H341AA,5,0,,,,

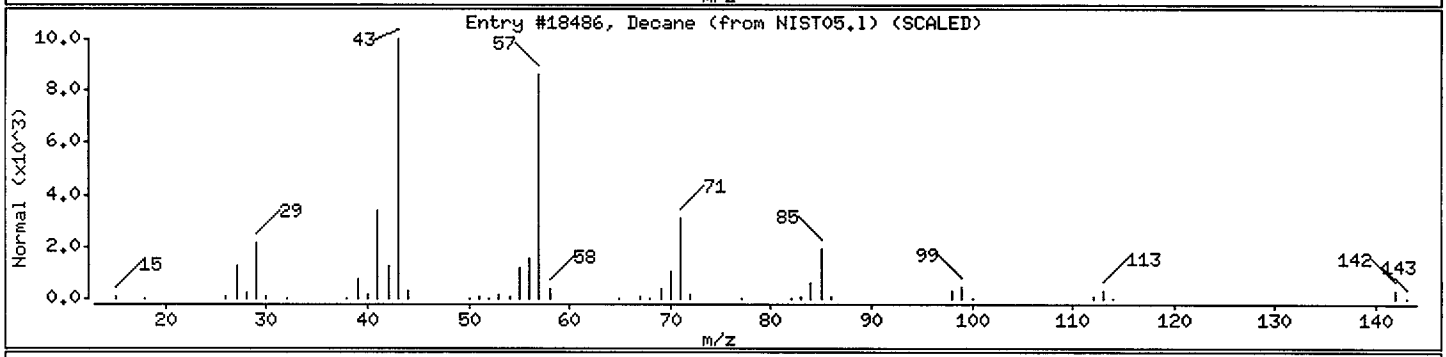
Volume Injected (uL): 1.0 | Operator: 60841

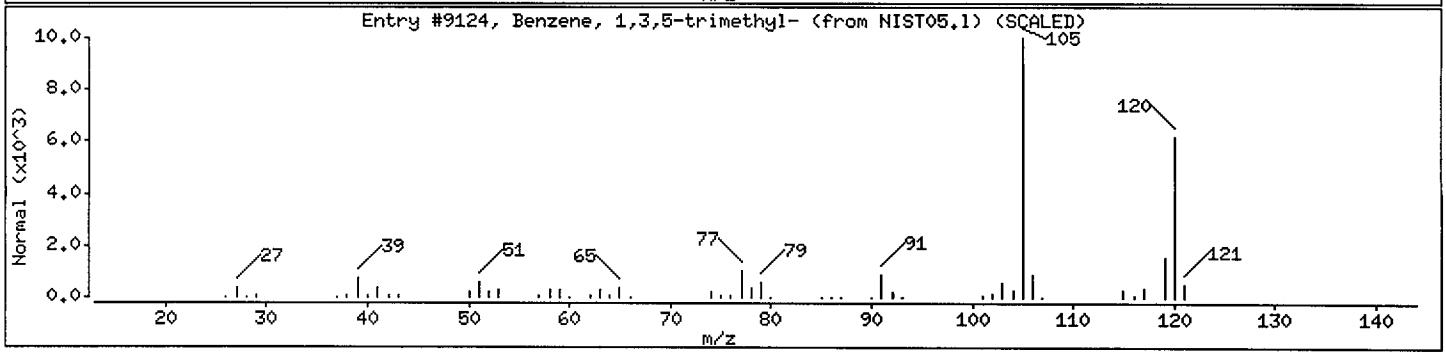
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.1	9115	83	C9H12	120
Decane	124-18-5	NIST05.1	18486	74	C10H22	142
Benzene, 1,3,5-trimethyl-	108-67-8	NIST05.1	9124	46	C9H12	120









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Date : 18-APR-2006 13:41

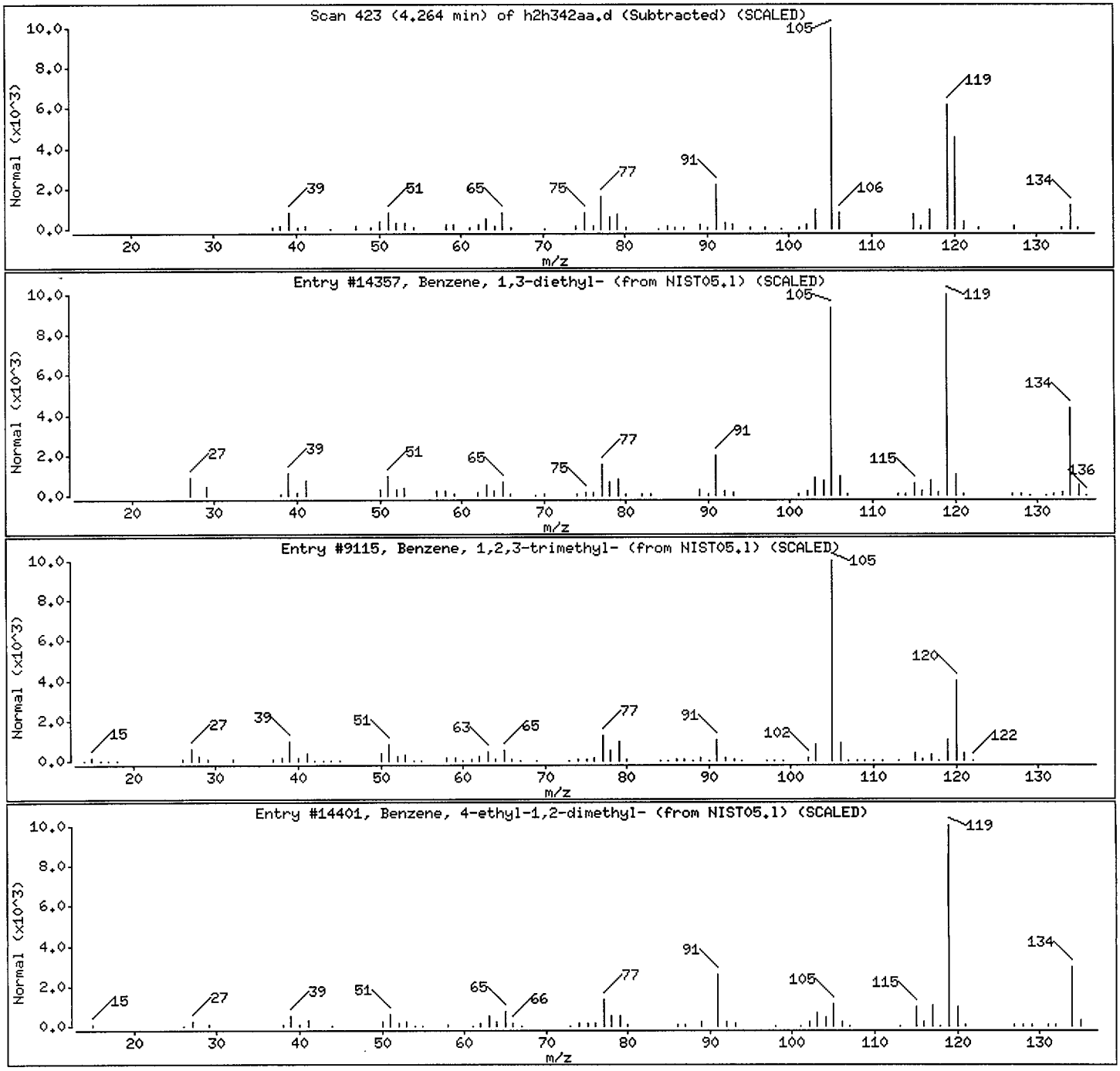
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,3-diethyl-	141-93-5	NIST05.l	14357	70	C10H14	134
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.l	9115	64	C9H12	120
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST05.l	14401	60	C10H14	134



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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

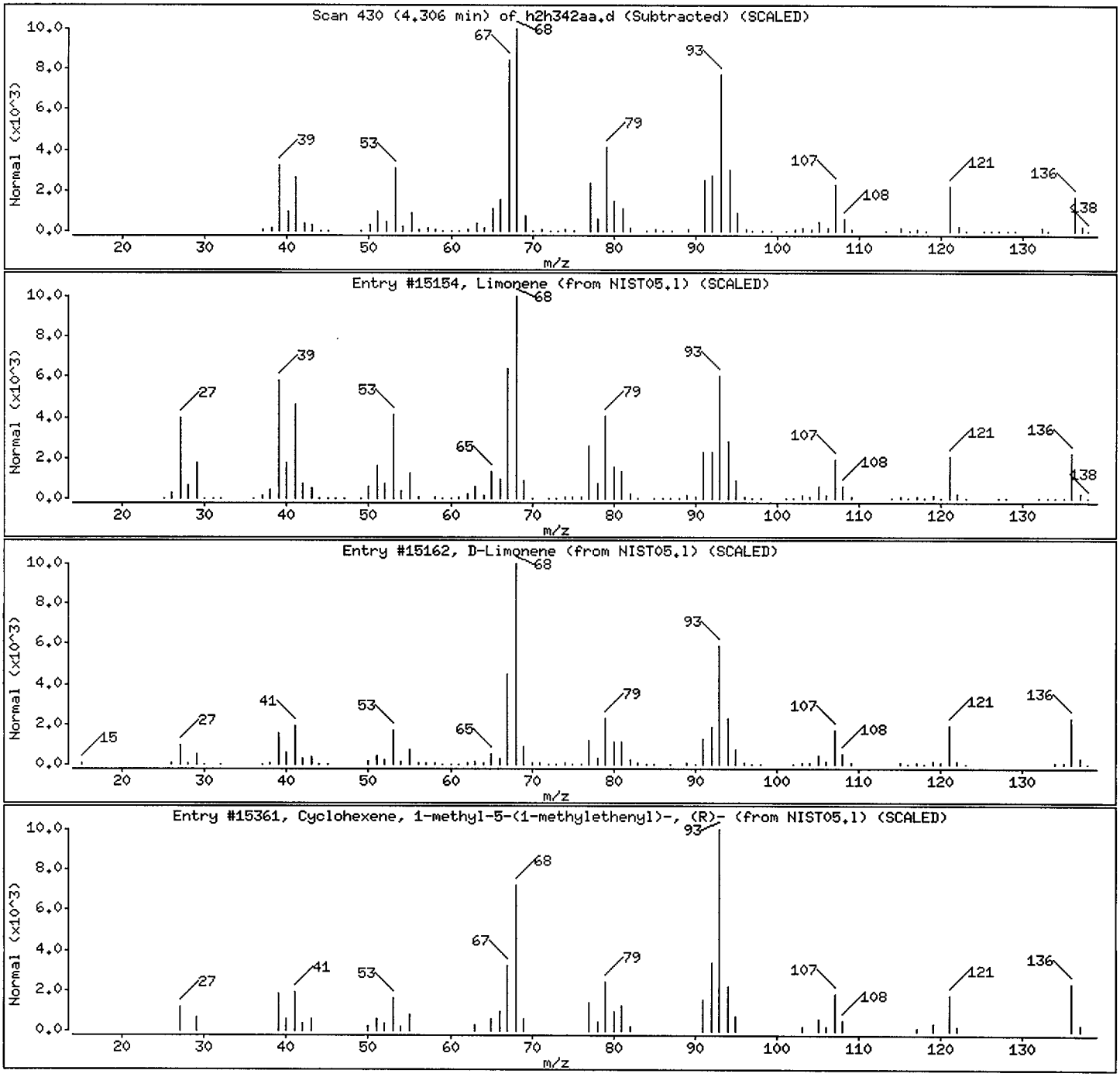
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Limonene	138-86-3	NIST05.1	15154	95	C10H16	136
D-Limonene	5989-27-5	NIST05.1	15162	94	C10H16	136
Cyclohexene, 1-methyl-5-(1-methylethenyl	1461-27-4	NIST05.1	15361	64	C10H16	136



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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

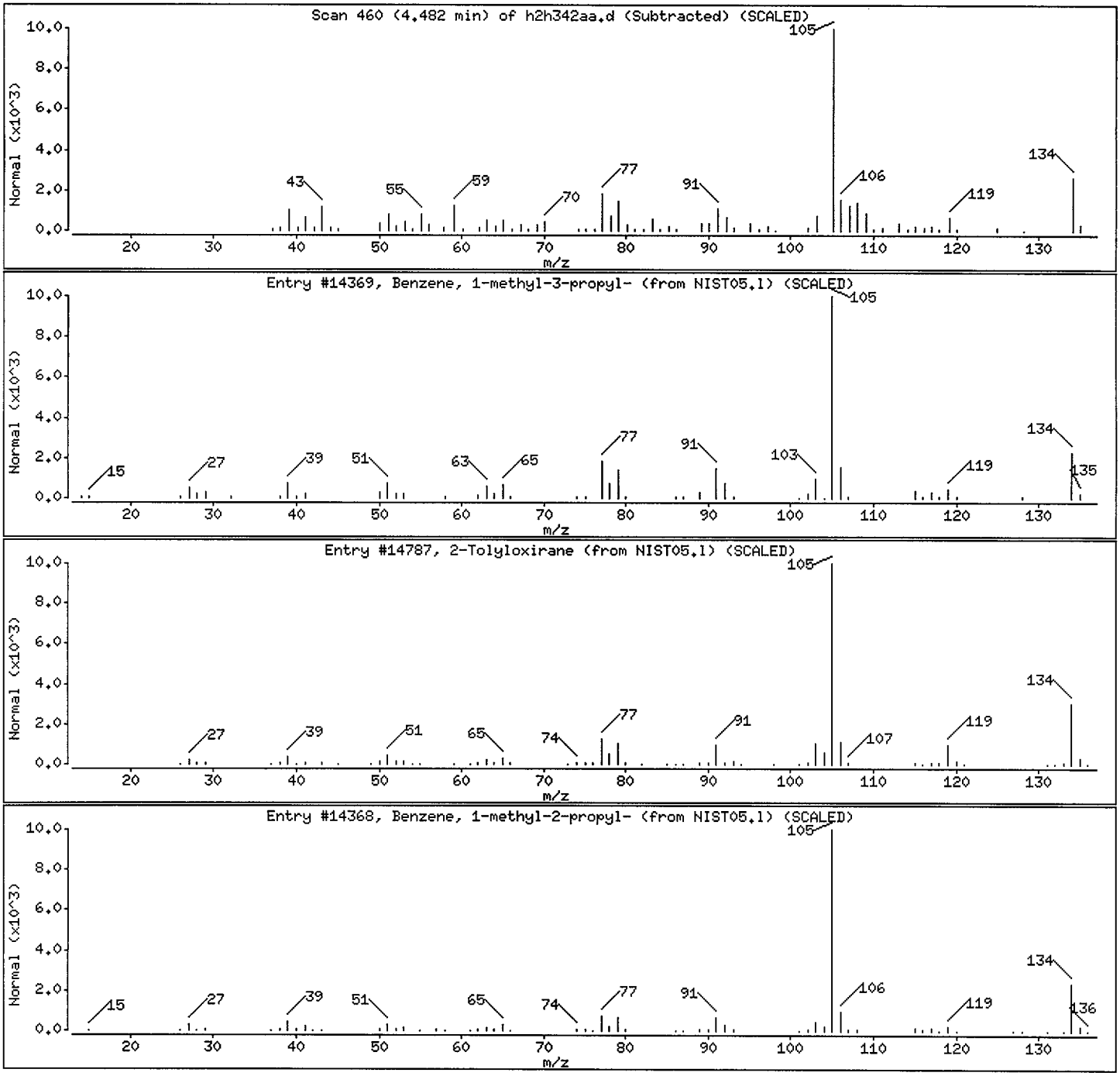
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-propyl-	1074-43-7	NIST05.1	14369	90	C10H14	134
2-Tolyloxirane	2783-26-8	NIST05.1	14787	53	C9H10O	134
Benzene, 1-methyl-2-propyl-	1074-17-5	NIST05.1	14368	49	C10H14	134



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Date : 18-APR-2006 13:41

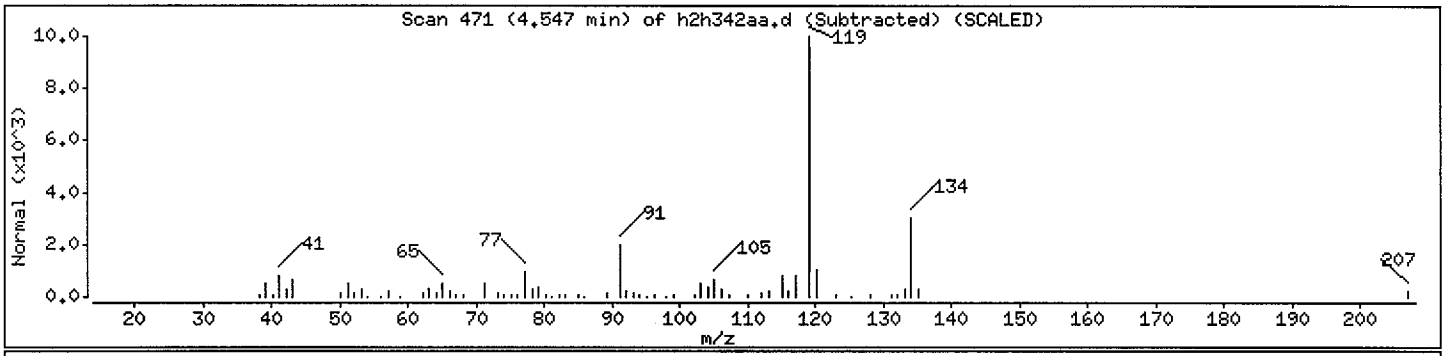
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

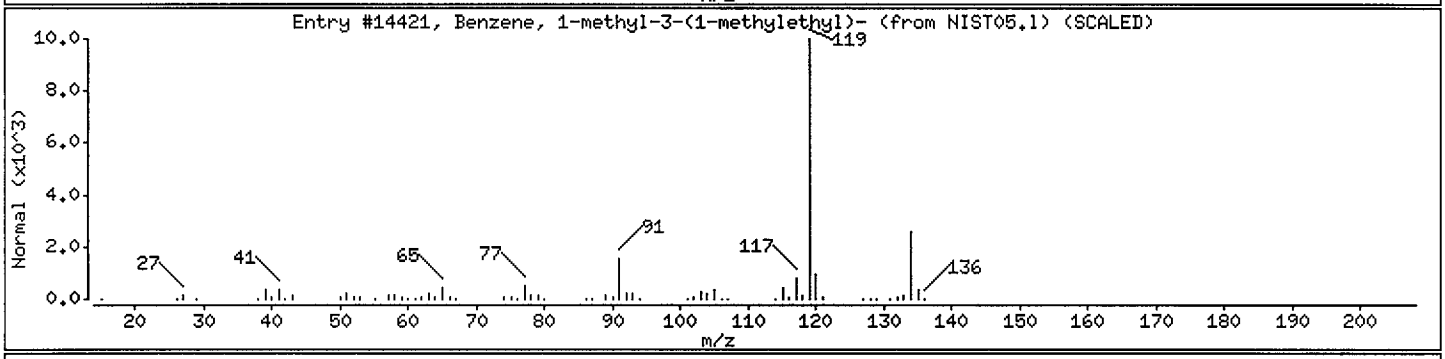
Sample Info: H2H341AA,5,0,,,,

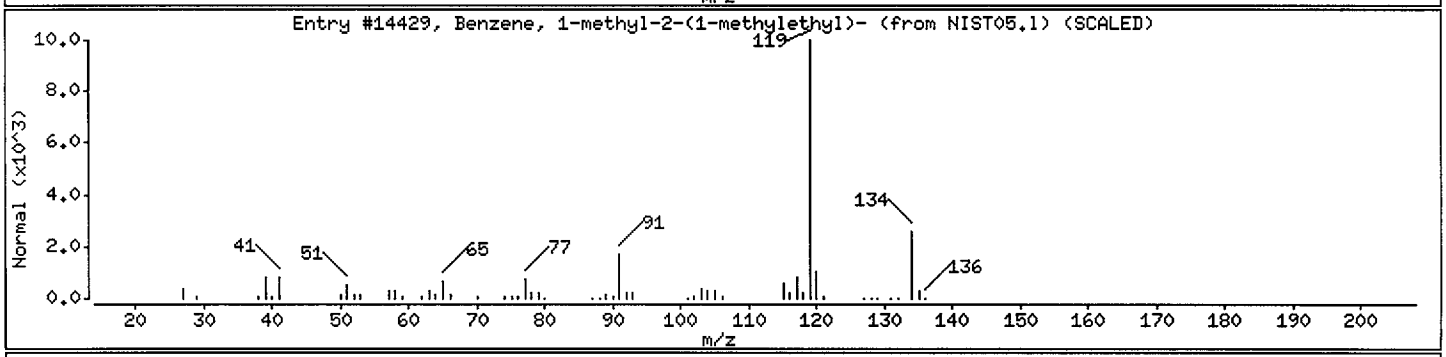
Volume Injected (uL): 1.0 | Operator: 60841

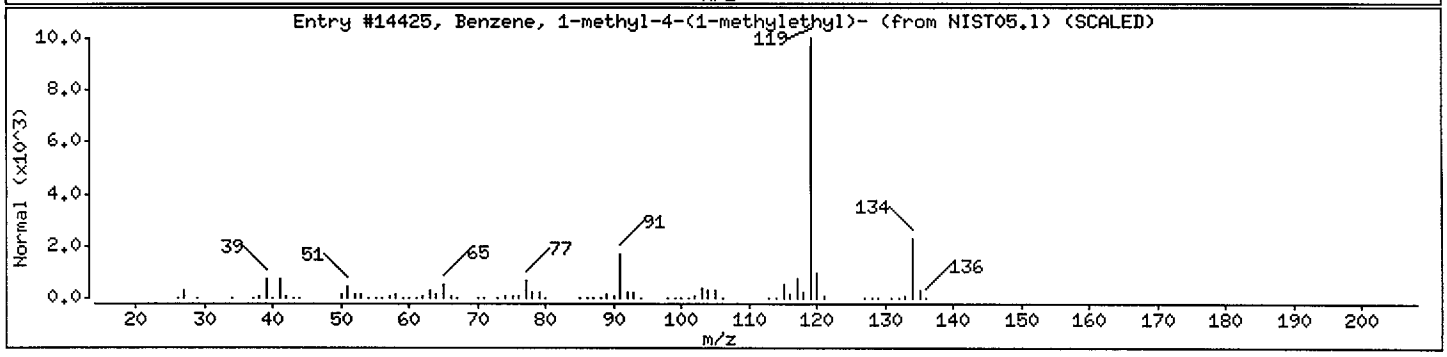
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.1	14421	95	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIST05.1	14429	95	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NIST05.1	14425	95	C10H14	134









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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

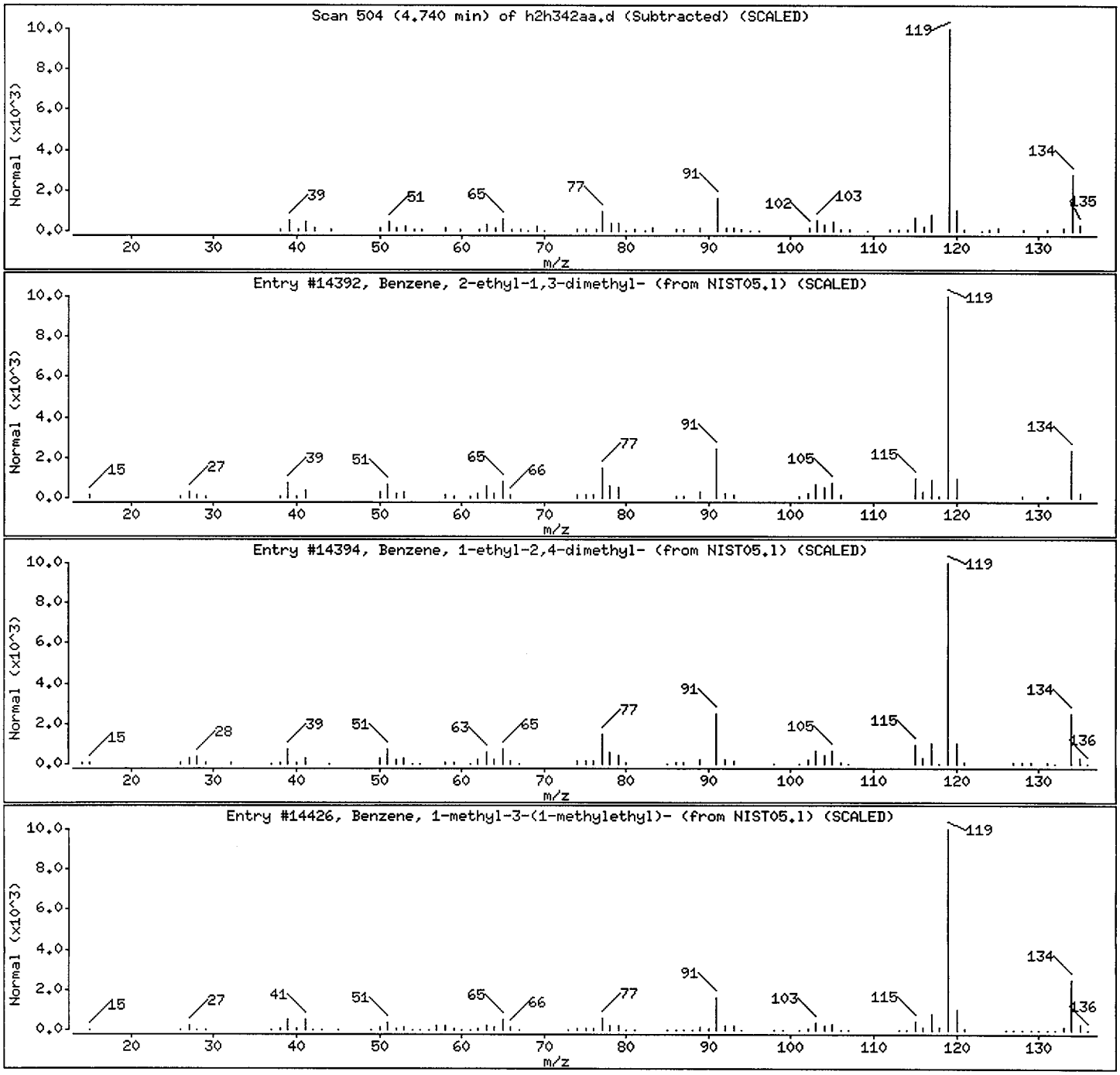
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST05.1	14392	95	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST05.1	14394	95	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.1	14426	94	C10H14	134



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Date : 18-APR-2006 13:41

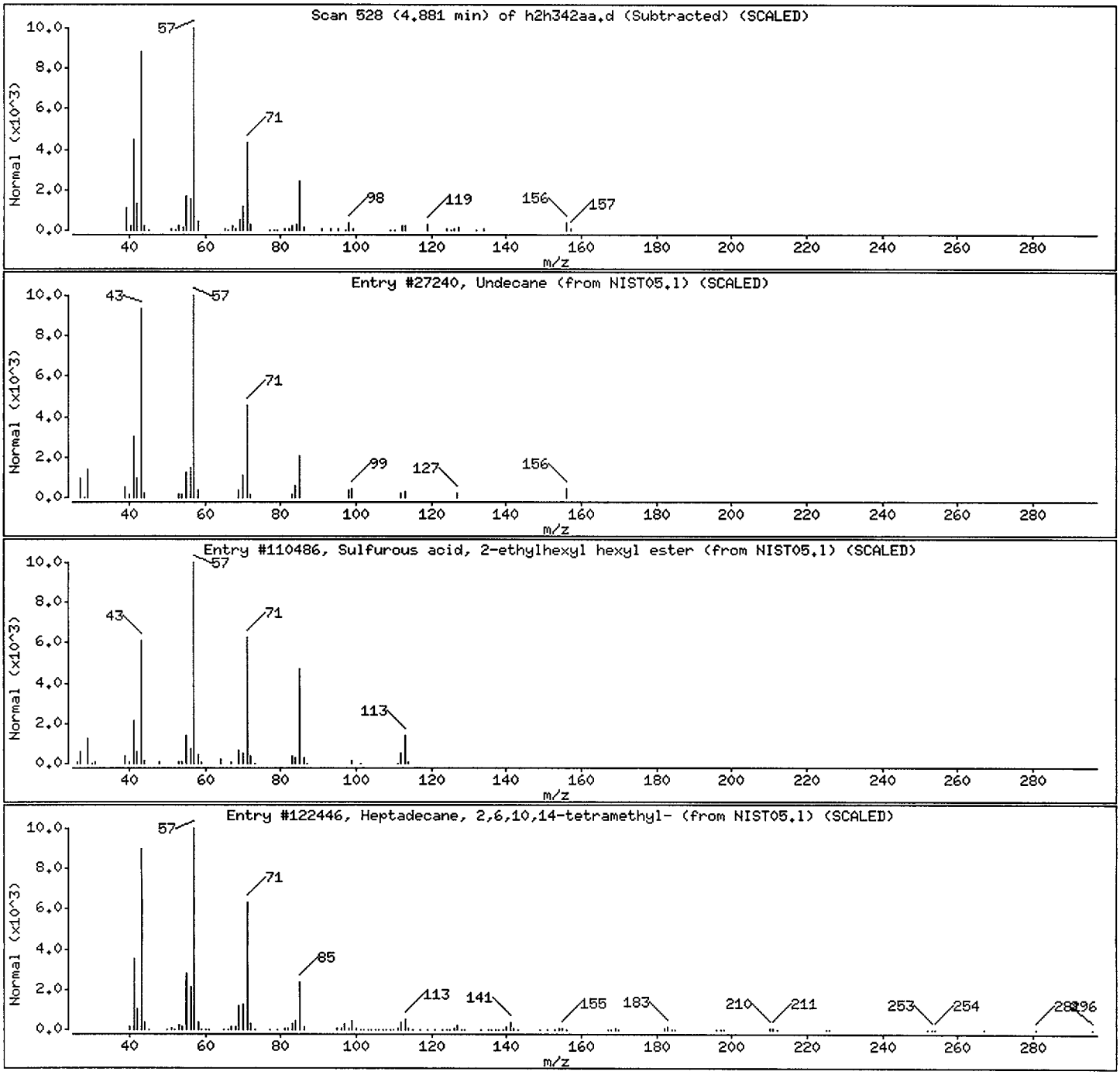
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NIST05.1	27240	91	C11H24	156
Sulfurous acid, 2-ethylhexyl hexyl ester	1000309-20-2	NIST05.1	110486	72	C14H30O3S	278
Heptadecane, 2,6,10,14-tetramethyl-	18344-37-1	NIST05.1	122446	72	C21H44	296



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Date : 18-APR-2006 13:41

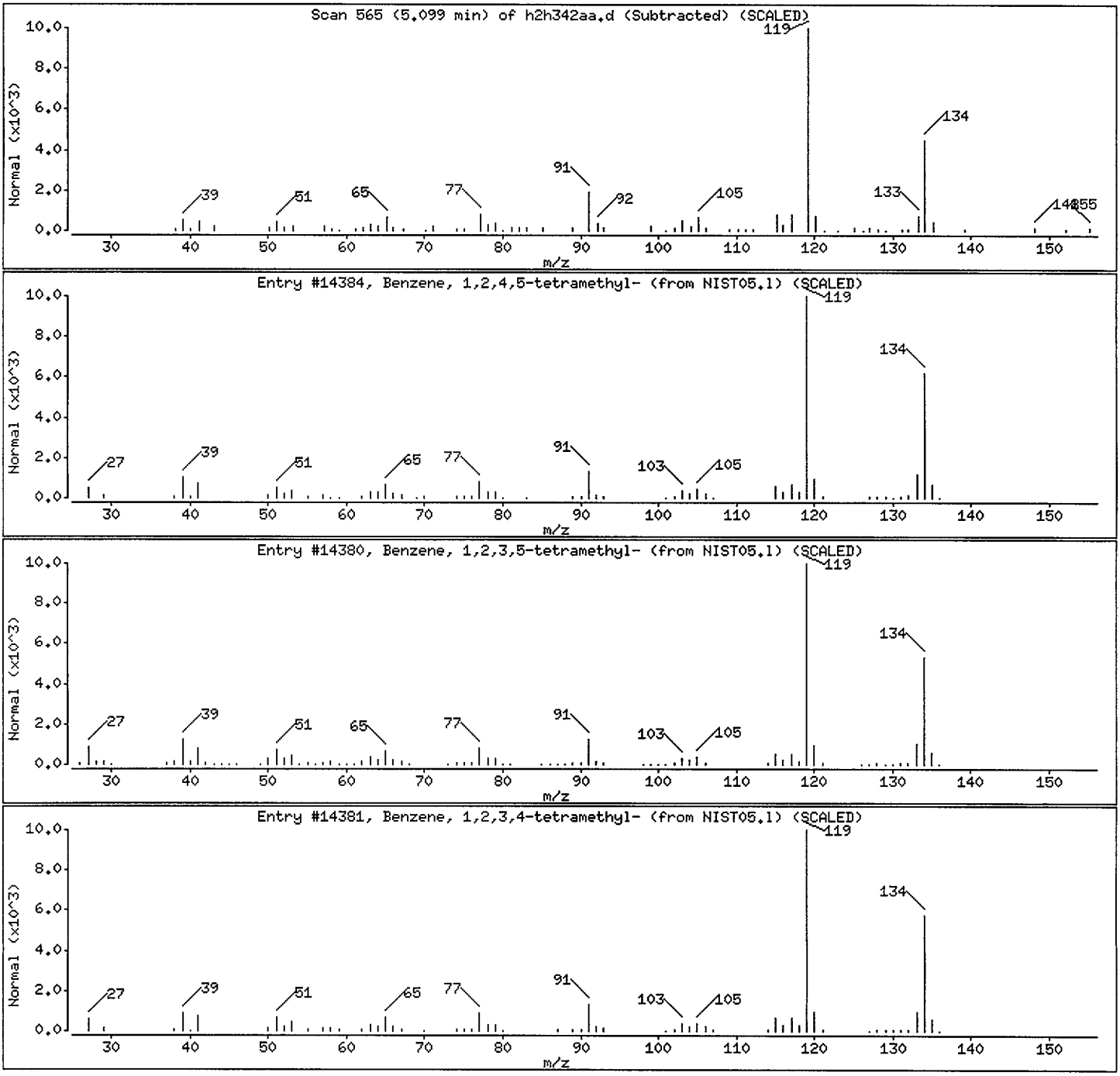
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.l	14384	93	C10H14	134
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST05.l	14380	91	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST05.l	14381	91	C10H14	134



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Date : 18-APR-2006 13:41

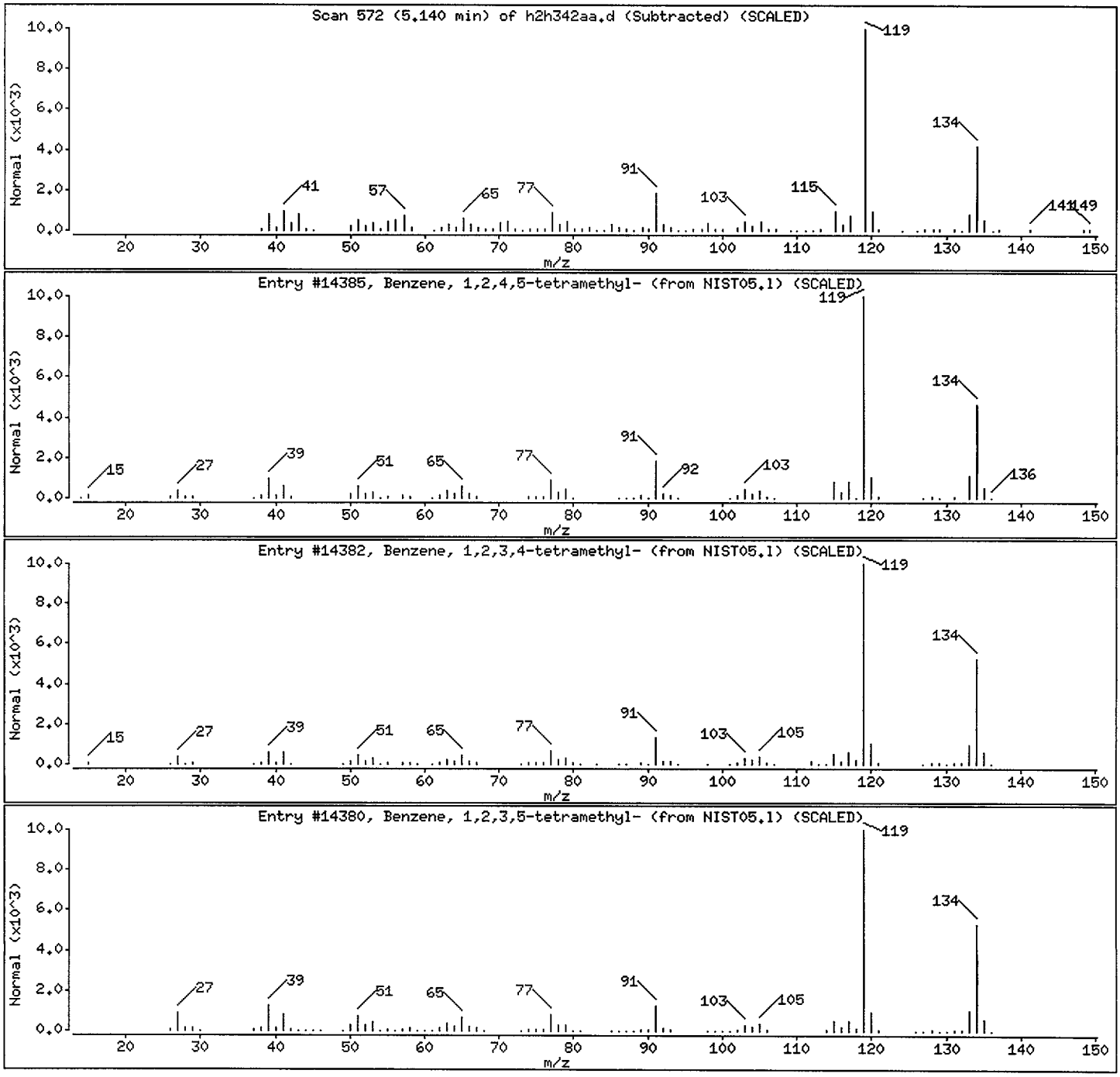
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.l	14385	96	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST05.l	14382	95	C10H14	134
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST05.l	14380	94	C10H14	134



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Date : 18-APR-2006 13:41

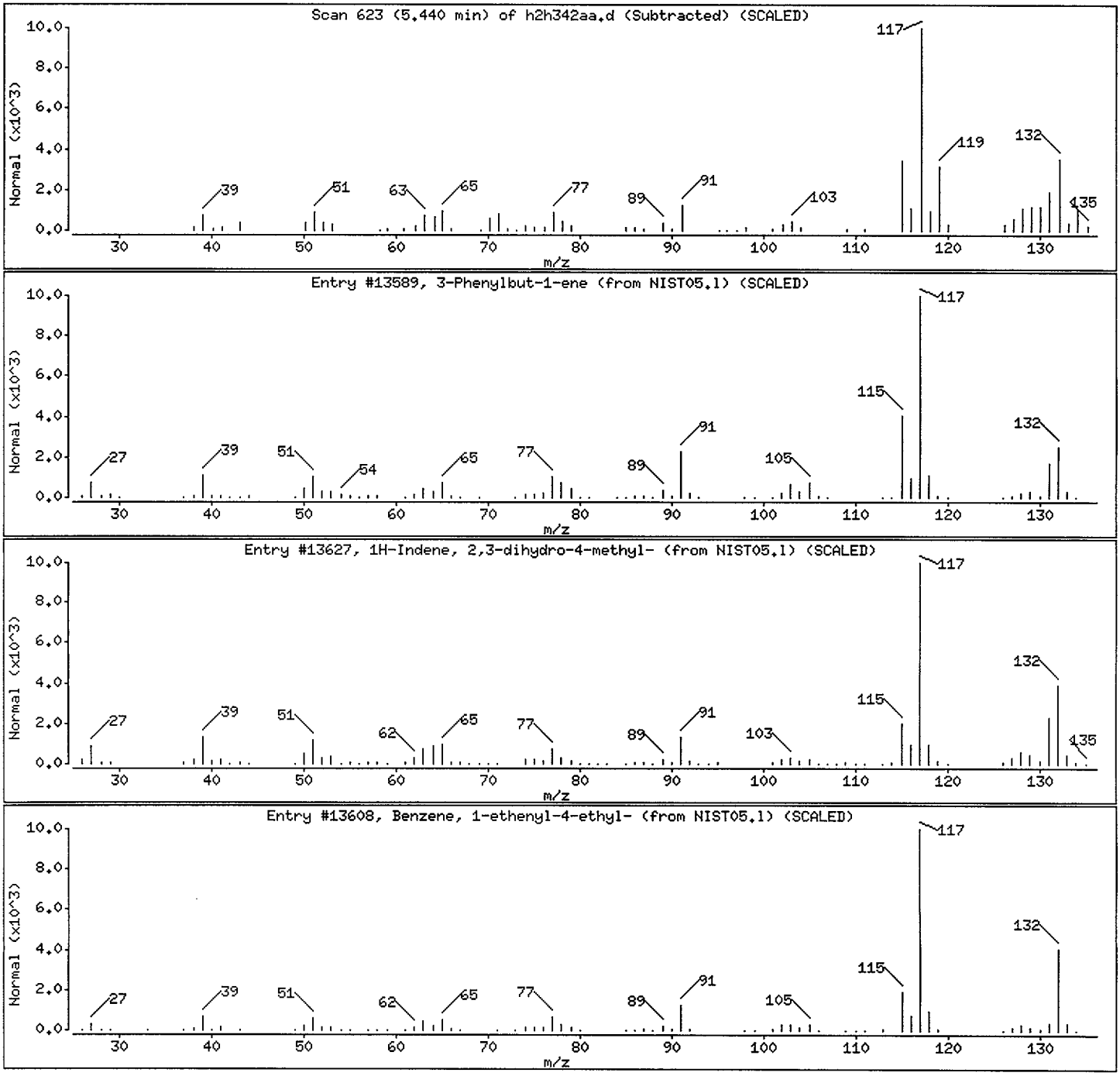
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Phenylbut-1-ene	934-10-1	NIST05.1	13589	70	C10H12	132
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NIST05.1	13627	70	C10H12	132
Benzene, 1-ethenyl-4-ethyl-	3454-07-7	NIST05.1	13608	64	C10H12	132



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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

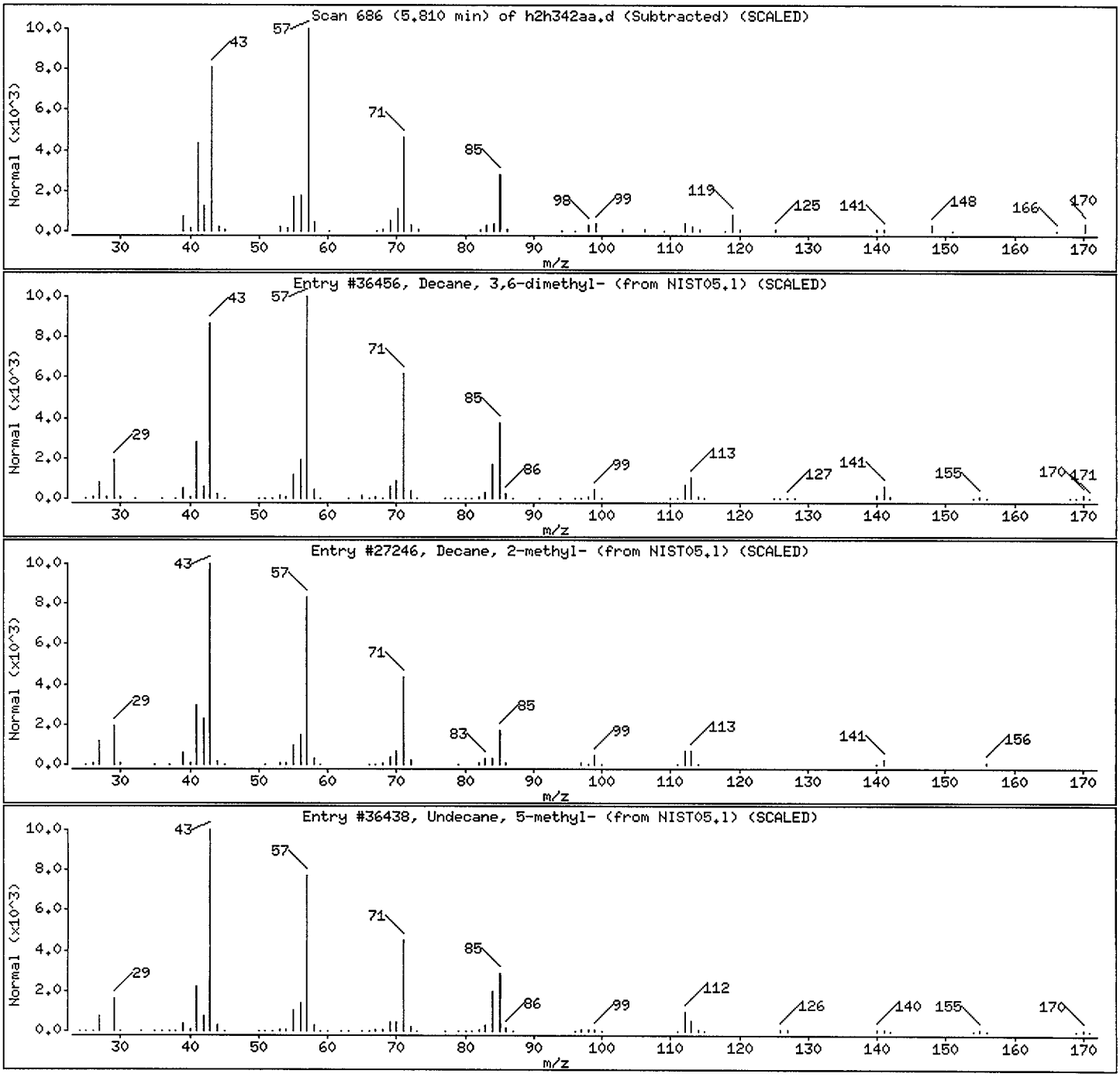
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 3,6-dimethyl-	17312-53-7	NIST05.1	36456	78	C12H26	170
Decane, 2-methyl-	6975-98-0	NIST05.1	27246	72	C11H24	156
Undecane, 5-methyl-	1632-70-8	NIST05.1	36438	64	C12H26	170



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Date : 18-APR-2006 13:41

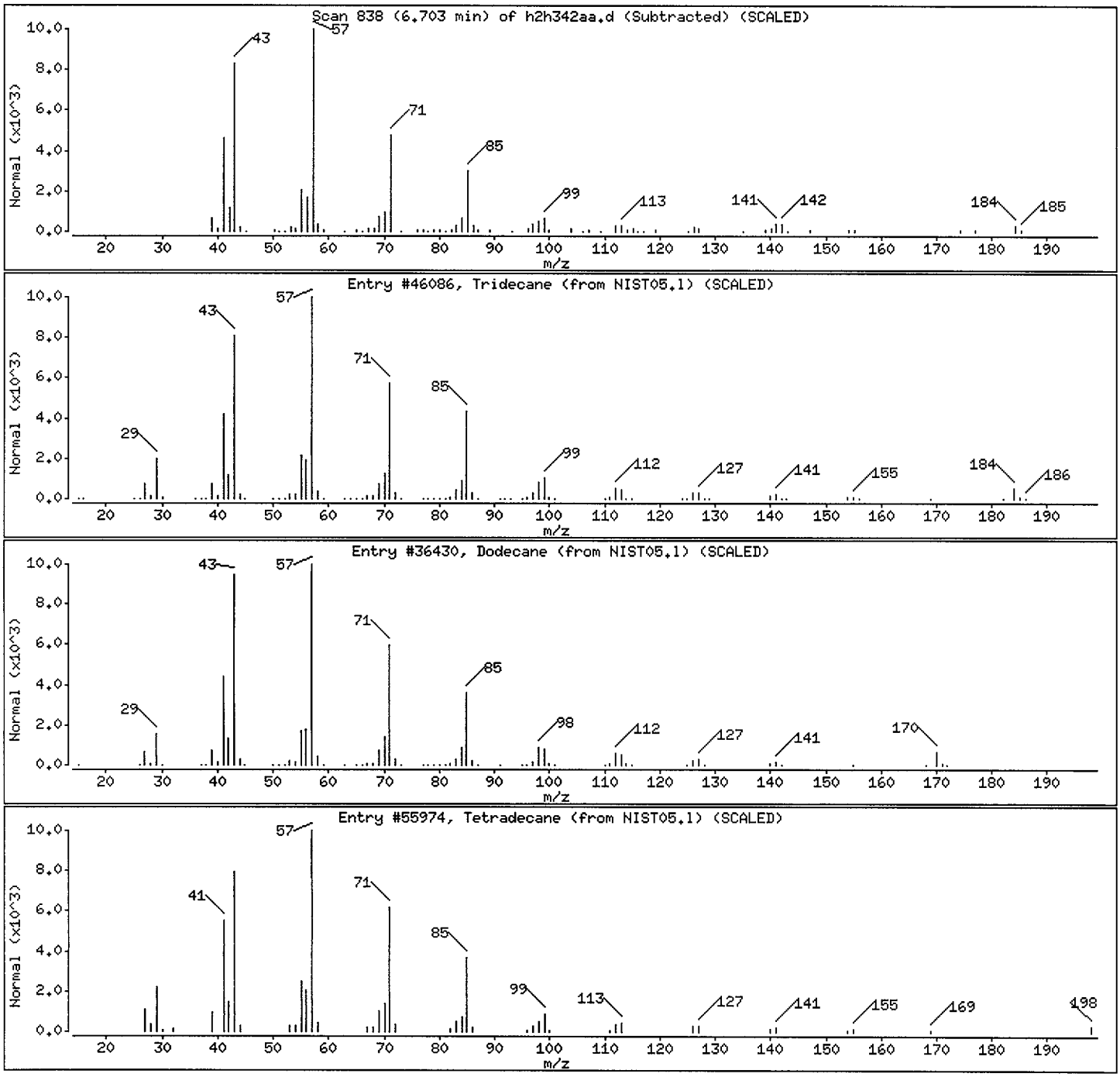
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane	629-50-5	NIST05.1	46086	93	C13H28	184
Dodecane	112-40-3	NIST05.1	36430	80	C12H26	170
Tetradecane	629-59-4	NIST05.1	55974	80	C14H30	198



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Date : 18-APR-2006 13:41

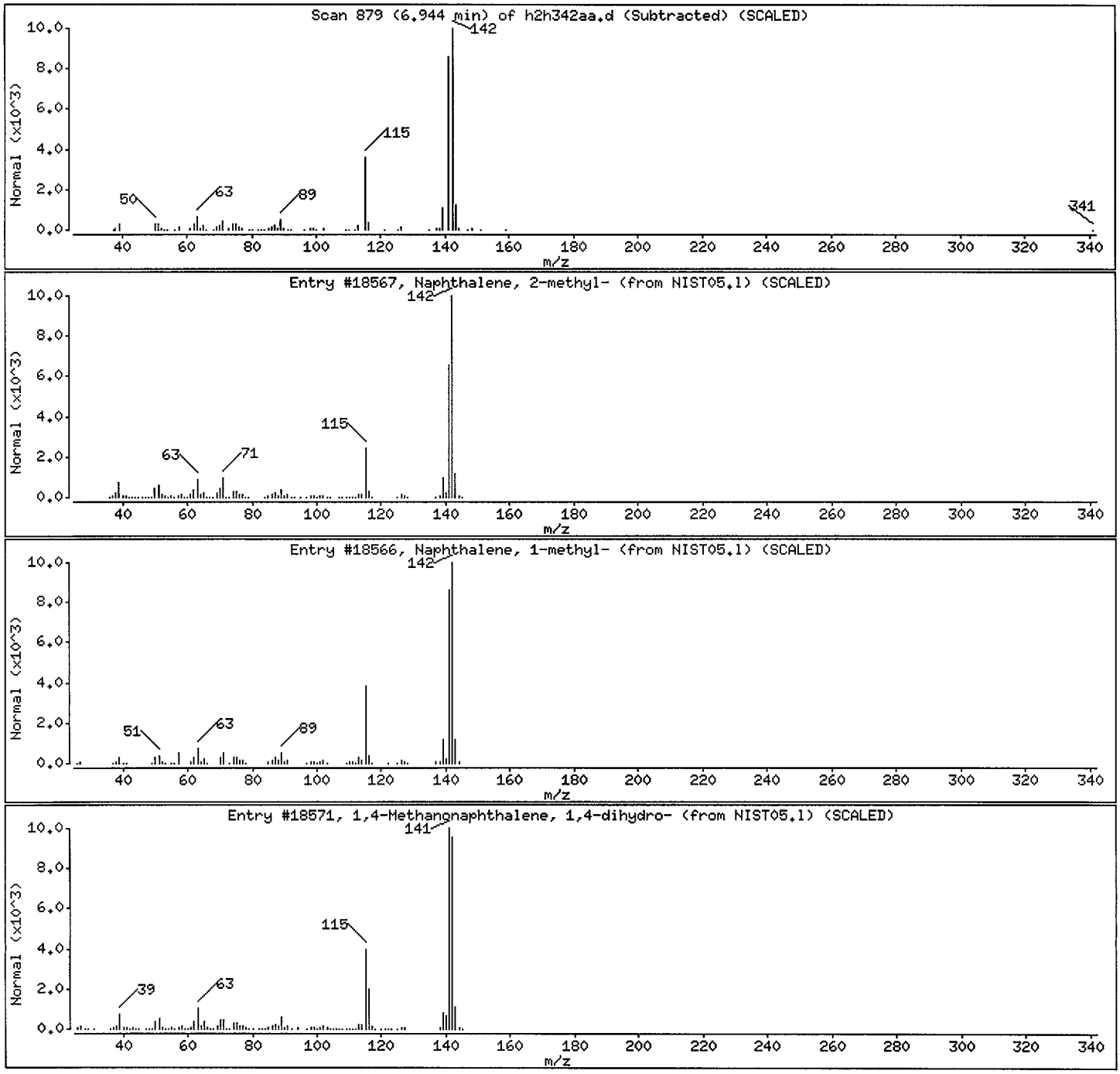
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2-methyl-	91-57-6	NIST05.l	18567	91	C11H10	142
Naphthalene, 1-methyl-	90-12-0	NIST05.l	18566	91	C11H10	142
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST05.l	18571	91	C11H10	142



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Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

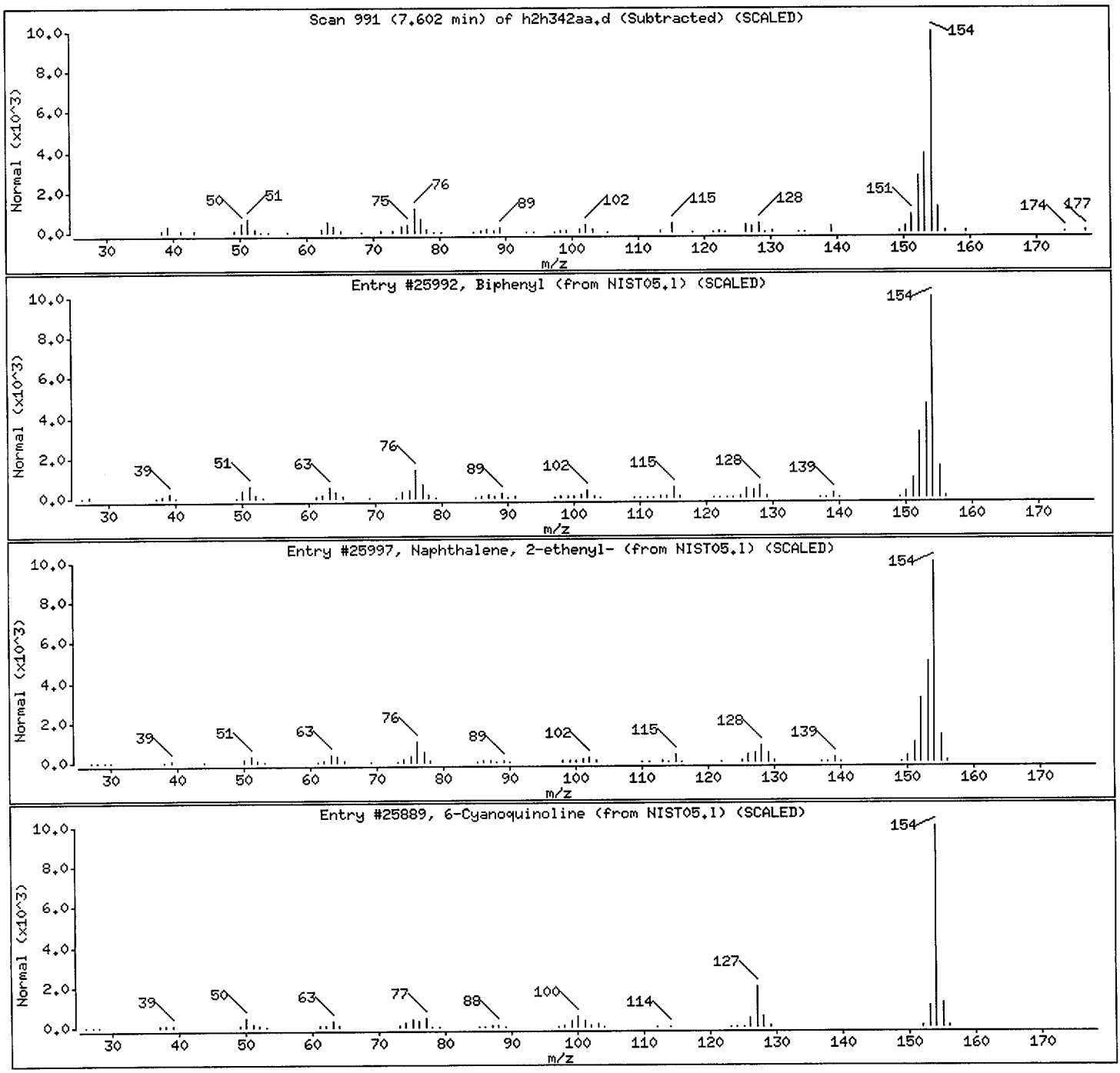
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Biphenyl	92-52-4	NIST05.1	25992	95	C12H10	154
Naphthalene, 2-ethenyl-	827-54-3	NIST05.1	25997	91	C12H10	154
6-Cyanoquinoline	23395-72-4	NIST05.1	25889	49	C10H6N2	154



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Date : 18-APR-2006 13:41

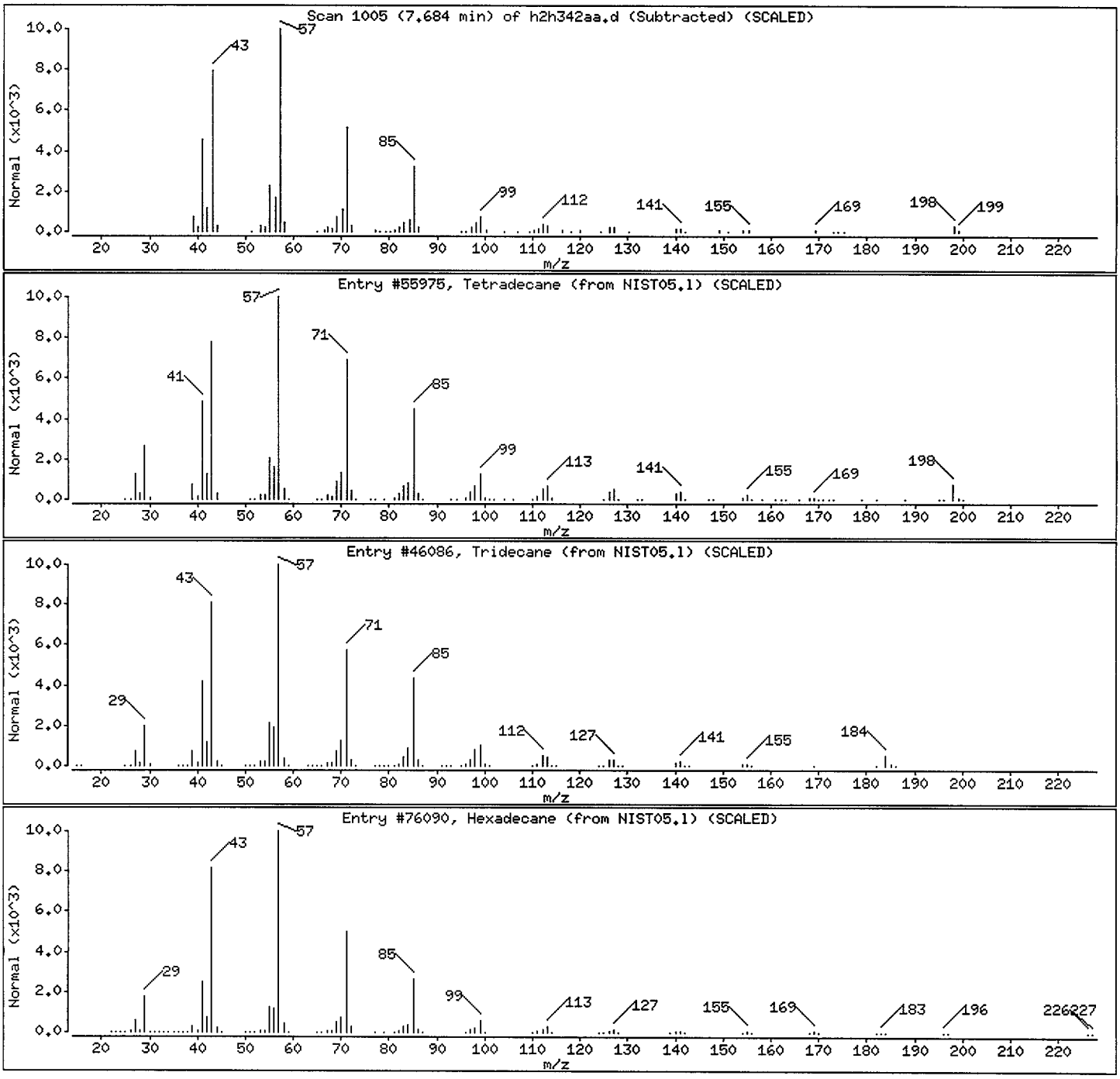
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST05.1	55975	97	C14H30	198
Tridecane	629-50-5	NIST05.1	46086	90	C13H28	184
Hexadecane	544-76-3	NIST05.1	76090	90	C16H34	226



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Date : 18-APR-2006 13:41

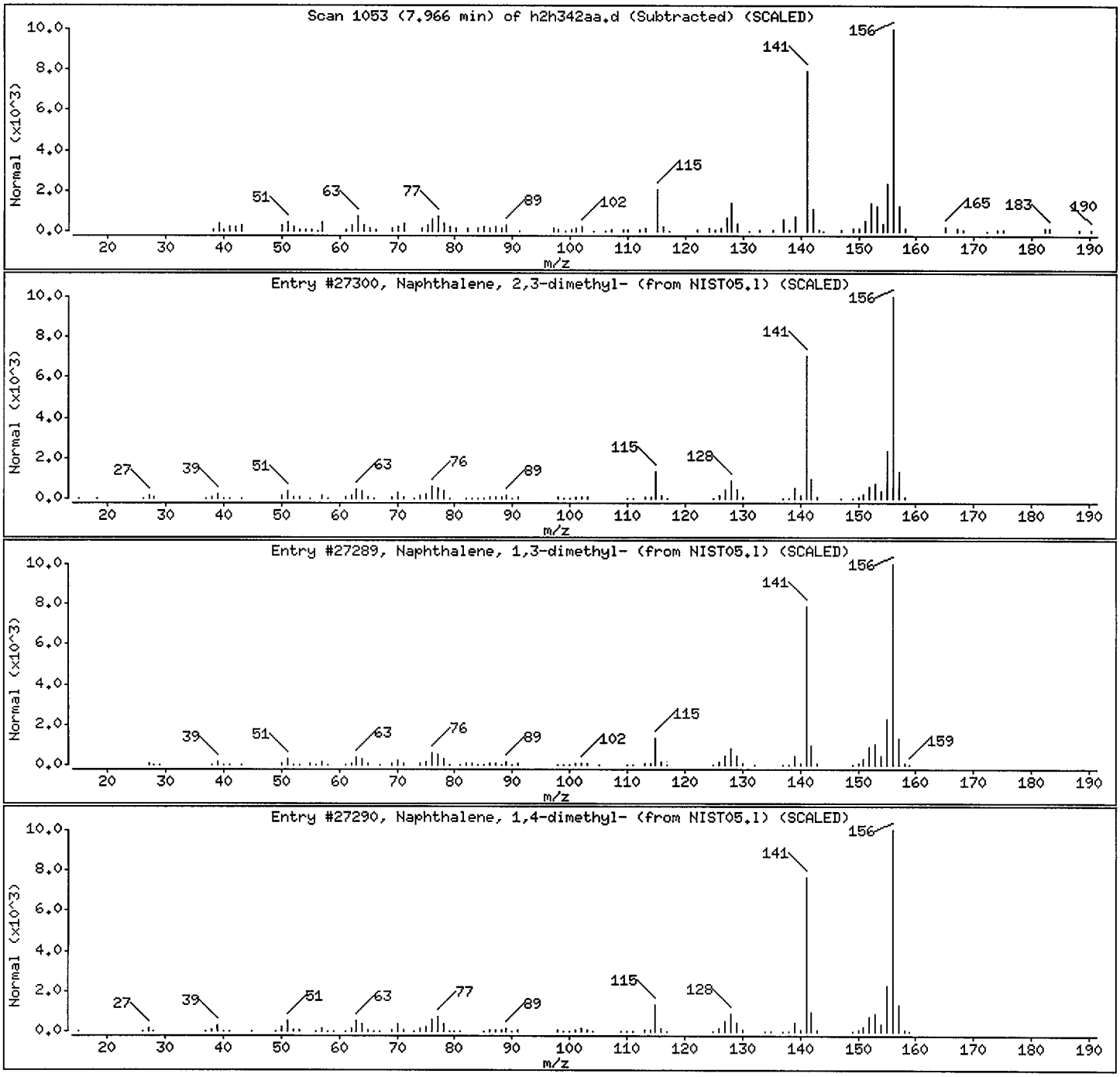
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,3-dimethyl-	581-40-8	NIST05.1	27300	97	C12H12	156
Naphthalene, 1,3-dimethyl-	575-41-7	NIST05.1	27289	96	C12H12	156
Naphthalene, 1,4-dimethyl-	571-58-4	NIST05.1	27290	94	C12H12	156



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Date : 18-APR-2006 13:41

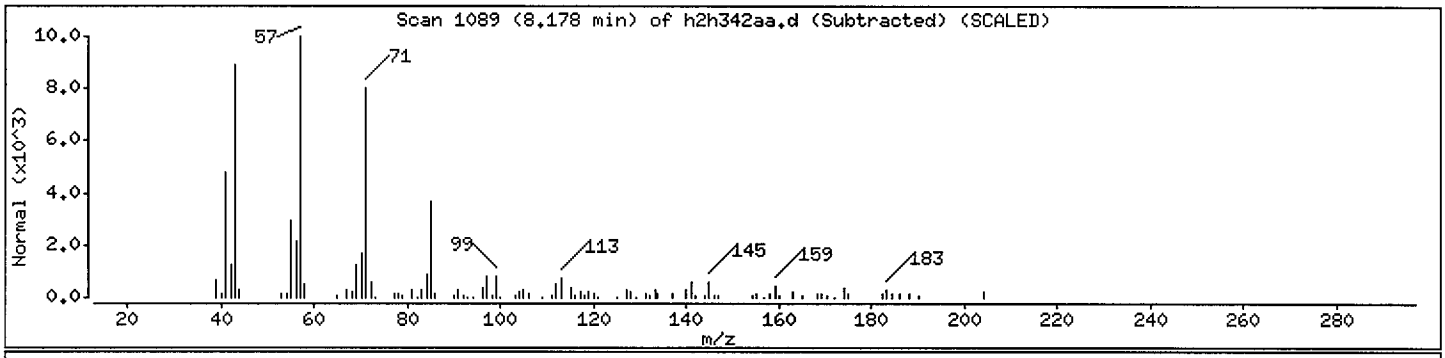
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

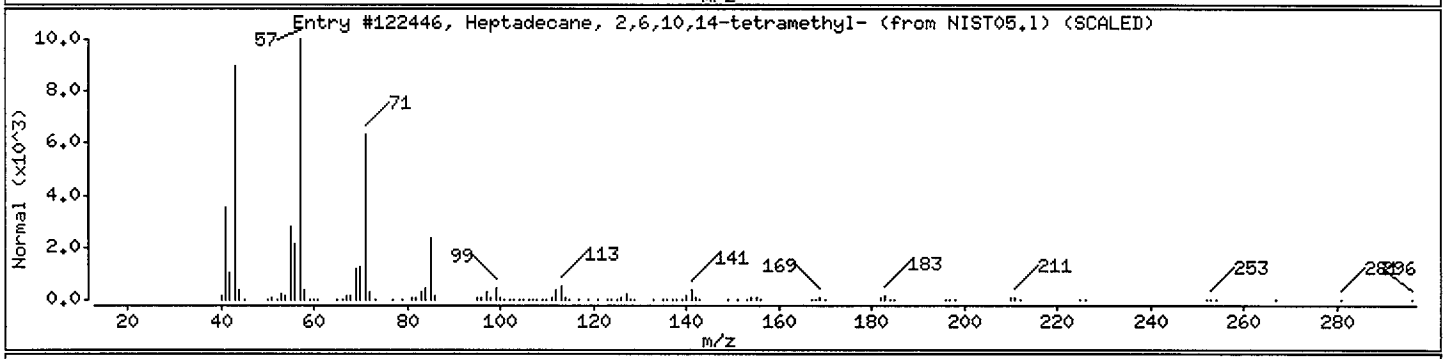
Sample Info: H2H341AA,5,0,,,,

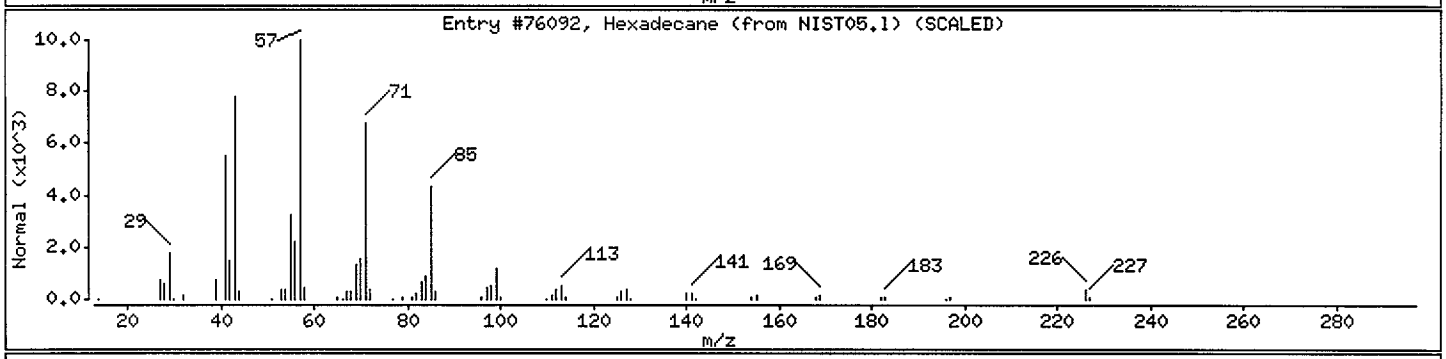
Volume Injected (uL): 1.0 | Operator: 60841

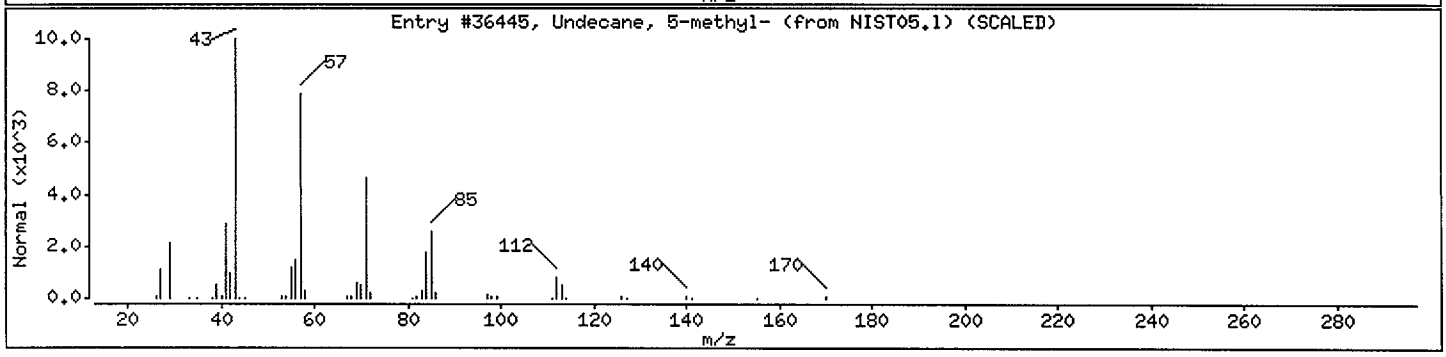
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptadecane, 2,6,10,14-tetramethyl-	18344-37-1	NIST05.1	122446	83	C21H44	296
Hexadecane	544-76-3	NIST05.1	76092	80	C16H34	226
Undecane, 5-methyl-	1632-70-8	NIST05.1	36445	80	C12H26	170









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Date : 18-APR-2006 13:41

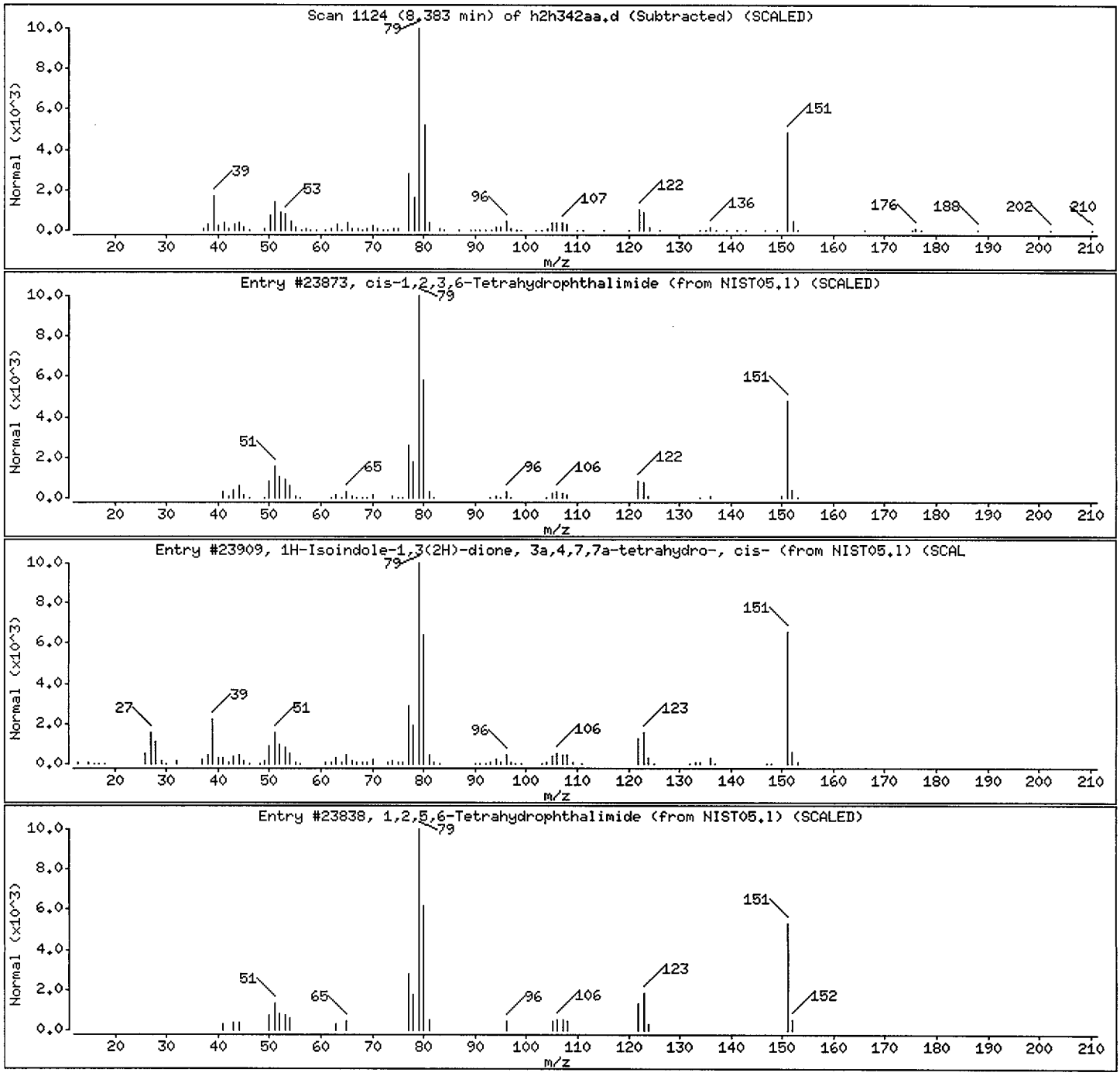
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
cis-1,2,3,6-Tetrahydrophthalimide	27813-21-4	NIST05.1	23873	96	C8H9NO2	151
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-te	1469-48-3	NIST05.1	23909	93	C8H9NO2	151
1,2,5,6-Tetrahydrophthalimide	85-40-5	NIST05.1	23838	91	C8H9NO2	151



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

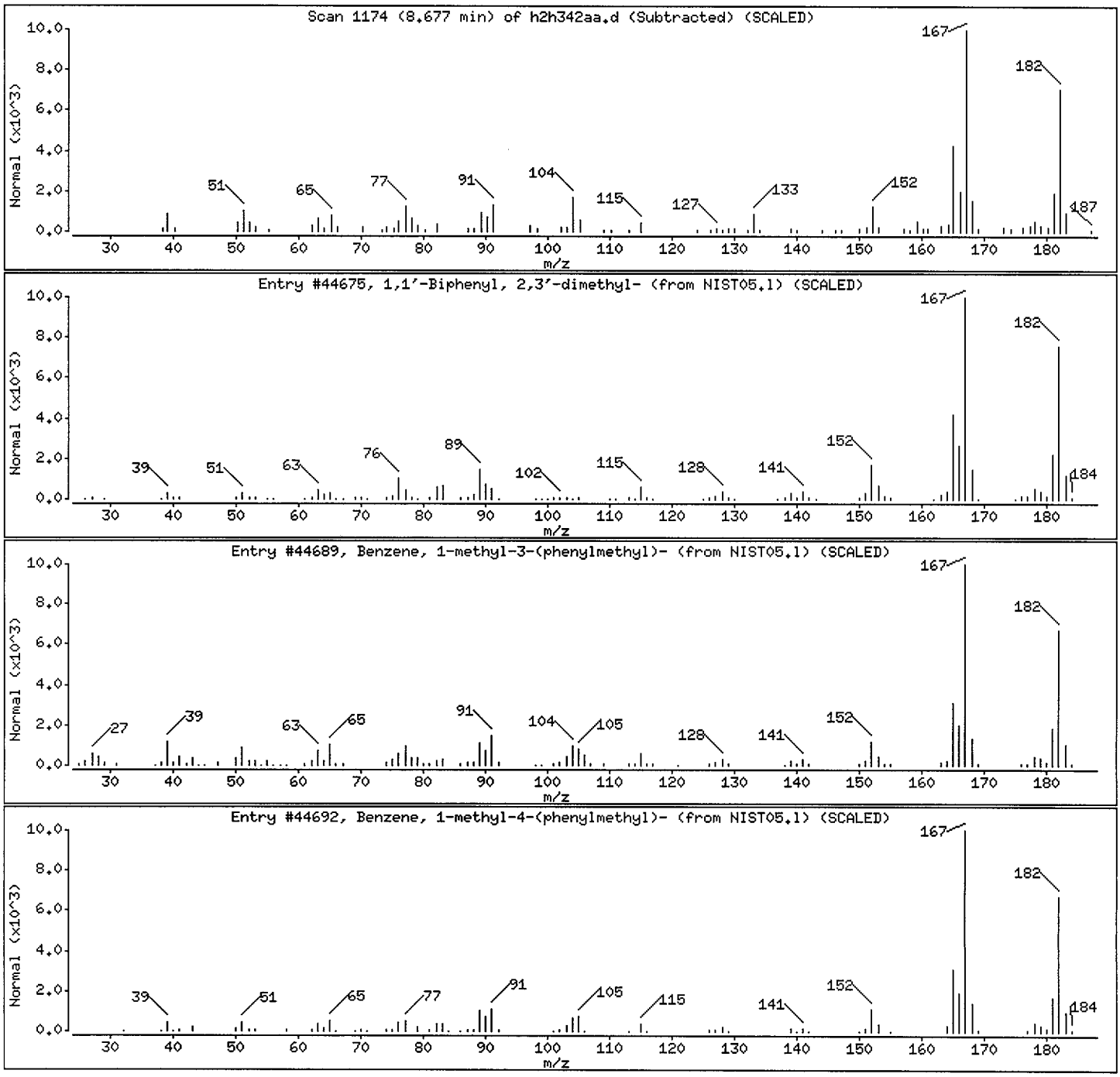
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1'-Biphenyl, 2,3'-dimethyl-	611-43-8	NIST05.l	44675	94	C14H14	182
Benzene, 1-methyl-3-(phenylmethyl)-	620-47-3	NIST05.l	44689	93	C14H14	182
Benzene, 1-methyl-4-(phenylmethyl)-	620-83-7	NIST05.l	44692	93	C14H14	182



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

Client ID: G-2890-R1-SPENT ACT

Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

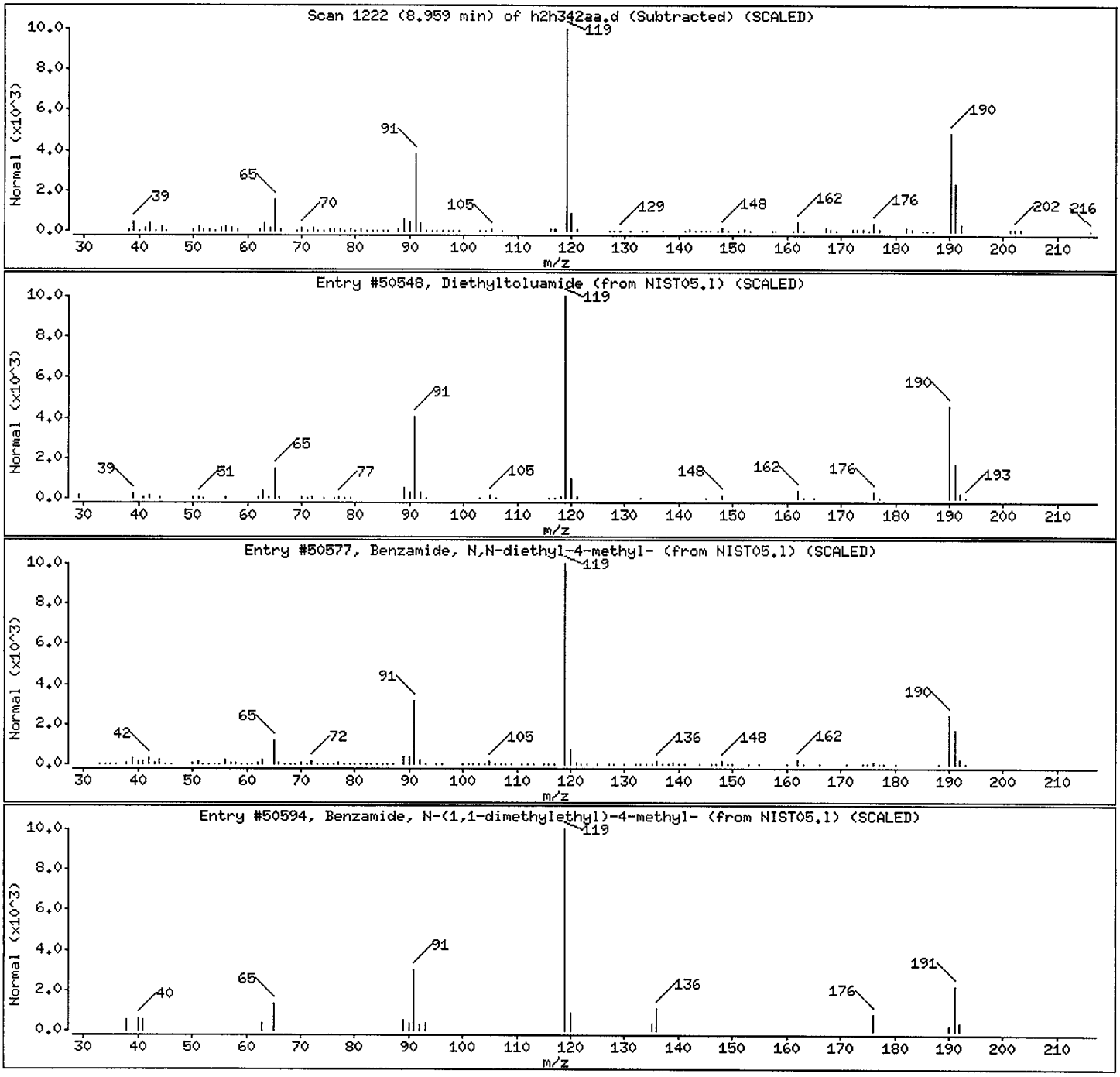
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Diethyltoluamide	134-62-3	NIST05.1	50548	97	C12H17NO	191
Benzamide, N,N-diethyl-4-methyl-	2728-05-4	NIST05.1	50577	87	C12H17NO	191
Benzamide, N-(1,1-dimethylethyl)-4-methy	42498-32-8	NIST05.1	50594	68	C12H17NO	191



Data File: /var/chem/gcms/md.i/D041806.b/h2h342aa.d

Date : 18-APR-2006 13:41

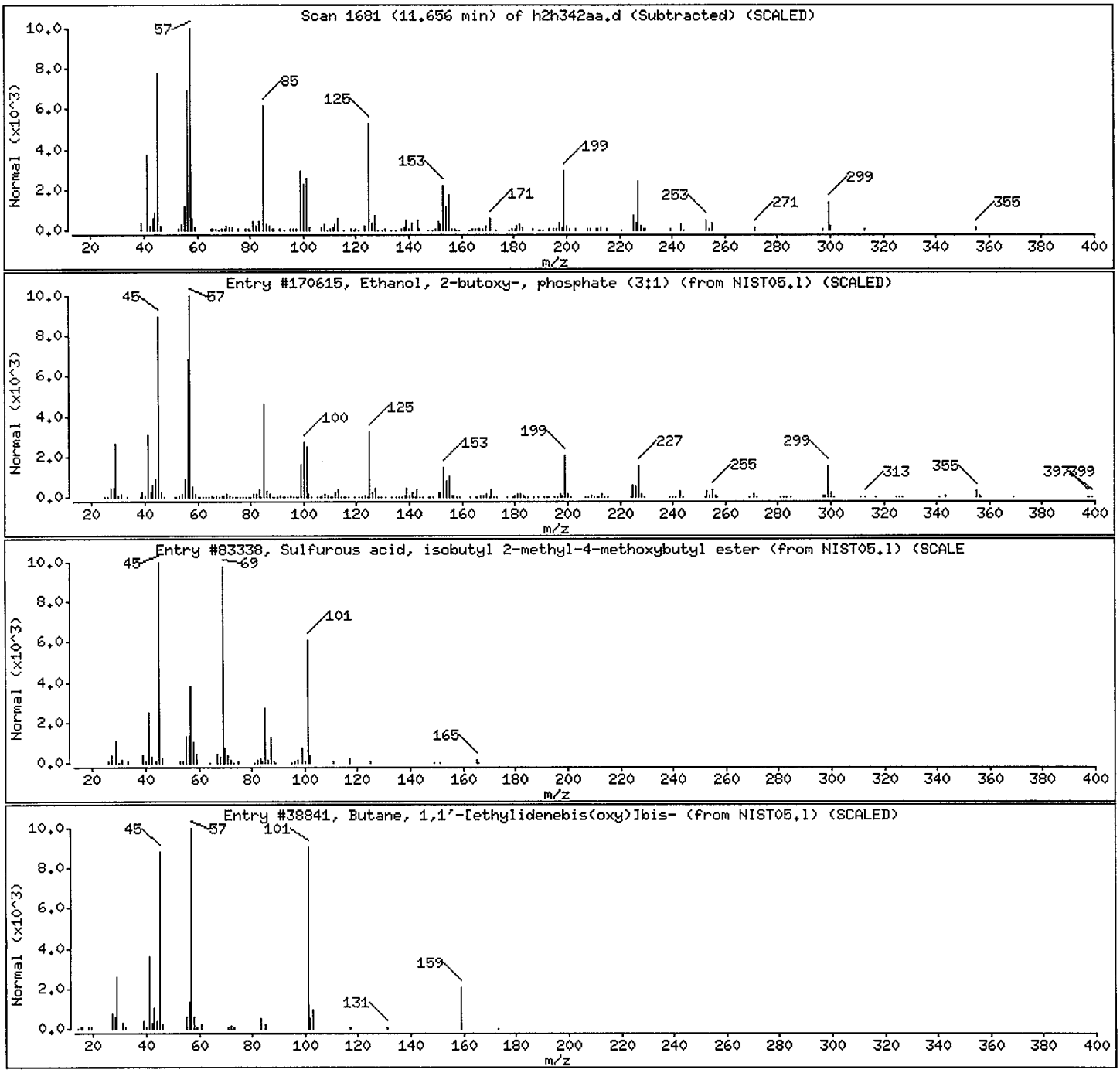
Client ID: G-2890-R1-SPENT ACT | Instrument: md.i

Sample Info: H2H341AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-, phosphate (3:1)	78-51-3	NIST05.1	170615	68	C18H3907P	398
Sulfurous acid, isobutyl 2-methyl-4-meth	1000309-20-3	NIST05.1	83338	22	C10H2204S	238
Butane, 1,1'-[ethylidenebis(oxy)]bis-	871-22-7	NIST05.1	38841	22	C10H2202	174



STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	39	(36 - 98)
Phenol-d5	43 *	(49 - 109)
Nitrobenzene-d5	52 *	(57 - 120)
2-Fluorobiphenyl	59	(56 - 118)
2,4,6-Tribromophenol	62	(55 - 134)
Terphenyl-d14	66	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-002 **Work Order #:** H2H351AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 NJ	M	3.9002	ug/L
Unknown		17 NJ	M	4.1117	ug/L
Unknown		5.8 NJ	M	5.6041	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Report Date: 19-Apr-2006 13:54

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Lab Smp Id: H2H351AA Client Smp ID: G-2894-R1-SCRUBBER
Inj Date : 18-APR-2006 16:03
Operator : 60841 Inst ID: md.i
Smp Info : H2H351AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	950.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

4/19/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	47230	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	135161	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	94764	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	165488	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	173965	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	163020	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	96739	29.2895	30.8
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	129424	32.4852	34.2(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	79742	26.1730	27.6(R)
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	184421	29.5202	31.1
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	48649	46.3611	48.8
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	277279	32.7697	34.5
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	2345	1.27340	~~1.34~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Report Date: 19-Apr-2006 13:54

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Report Date: 19-Apr-2006 13:54

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h351aa.d
Lab Smp Id: H2H351AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2894-R1-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	47230	-23.73
2 Naphthalene-d8	196946	98473	393892	135161	-31.37
3 Acenaphthene-d10	140395	70198	280790	94764	-32.50
4 Phenanthrene-d10	245474	122737	490948	165488	-32.58
5 Chrysene-d12	253631	126816	507262	173965	-31.41
6 Perylene-d12	225613	112806	451226	163020	-27.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Report Date: 19-Apr-2006 13:54

STL Knoxville

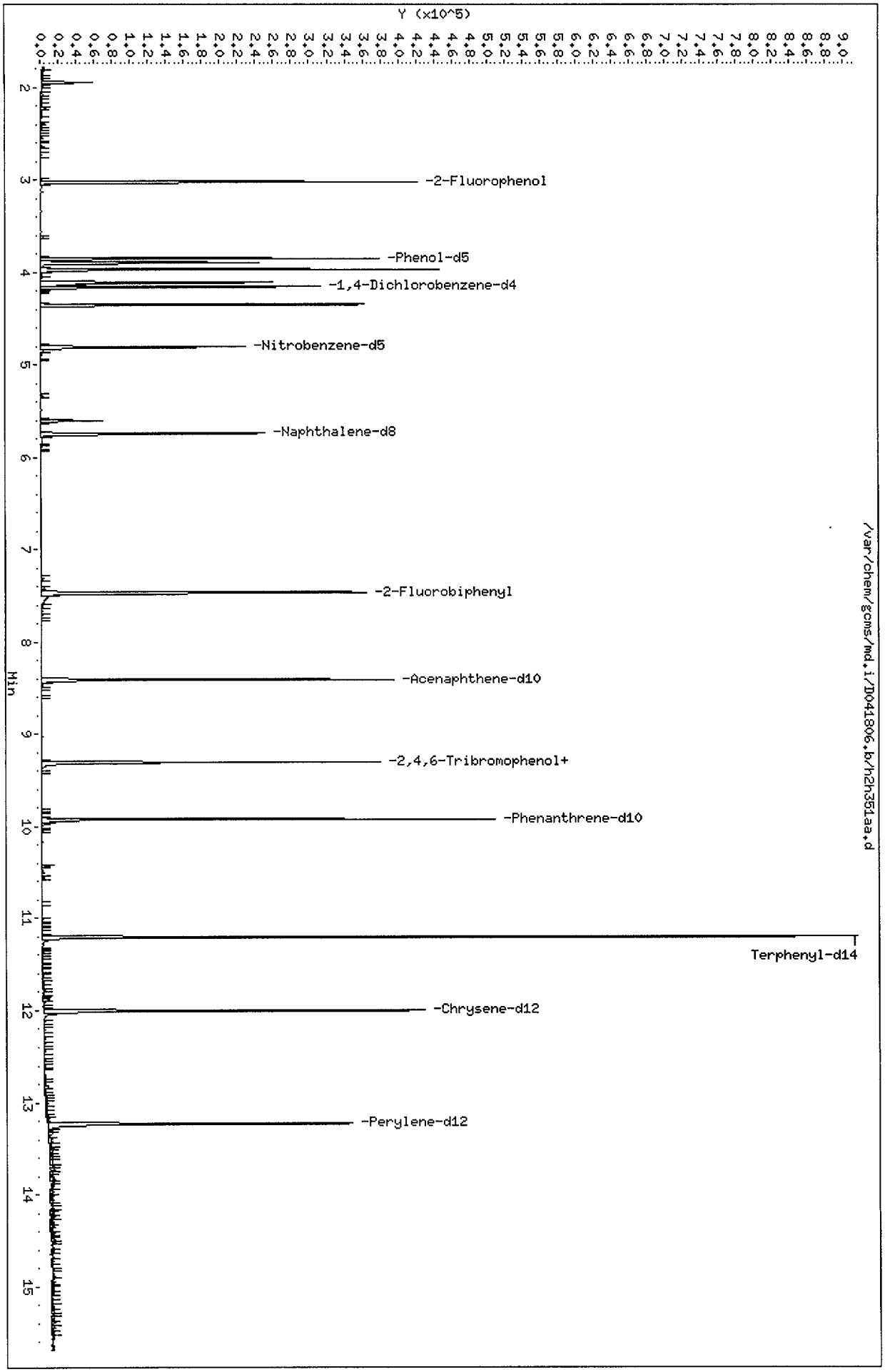
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H351AA
Client Smp ID: G-2894-R1-SCRUBBER
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.9	30.8	39.05	36-98
$ 8 Phenol-d5	78.9	34.2	43.31*	49-109
$ 9 Nitrobenzene-d5	52.6	27.6	52.35*	57-120
$ 10 2-Fluorobiphenyl	52.6	31.1	59.04	56-118
$ 11 2,4,6-Tribromophen	78.9	48.8	61.81	55-134
$ 12 Terphenyl-d14	52.6	34.5	65.54	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Date : 18-APR-2006 16:03
Client ID: G-2894-R1-SCRUBBER
Sample Info: H2H351AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d

Date : 18-APR-2006 16:03

Client ID: G-2894-R1-SCRUBBER

Instrument: md.i

Sample Info: H2H351AA,,0,,,,

Volume Injected (uL): 1.0

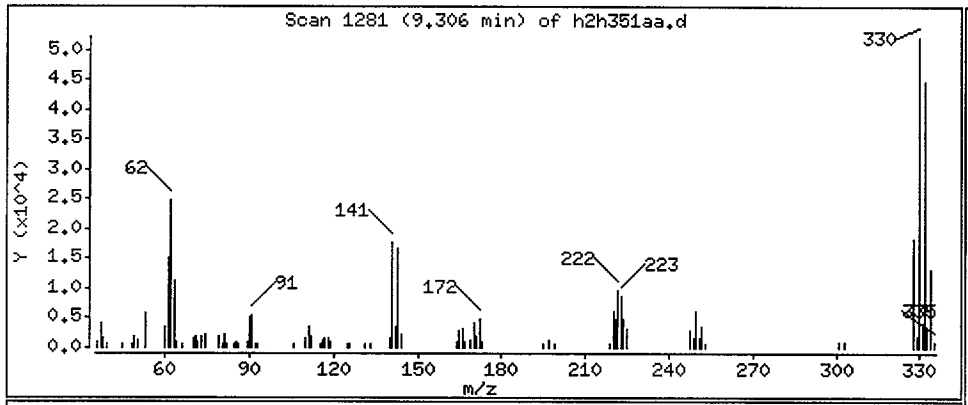
Operator: 60841

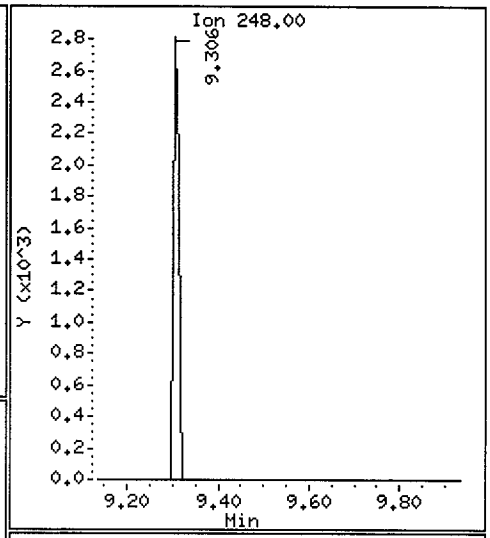
Column phase: ZB-5

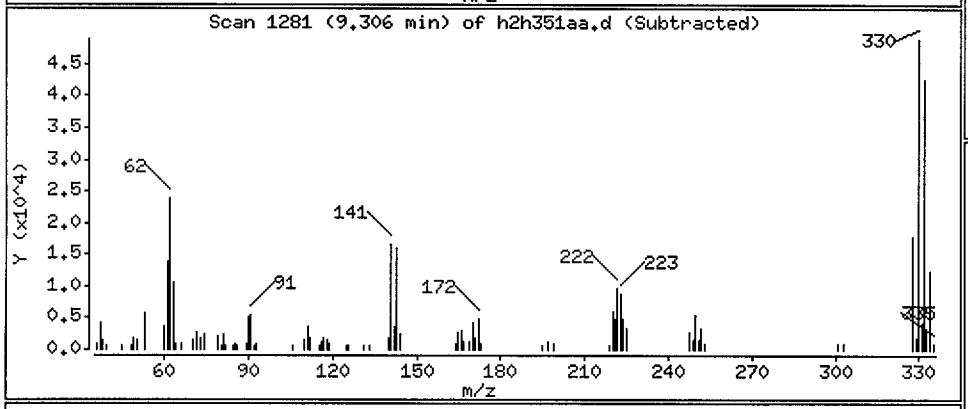
Column diameter: 0.25

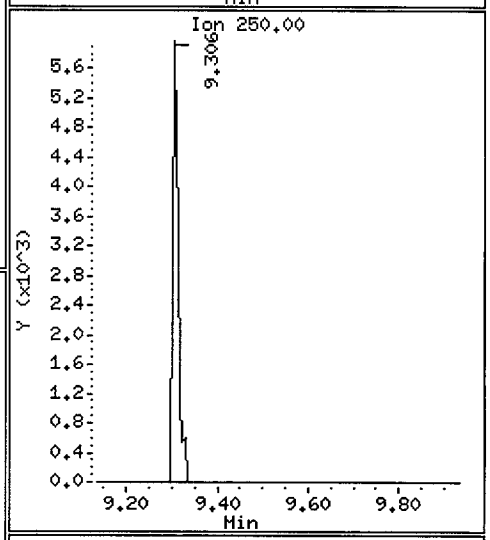
63 4-Bromophenyl phenyl ether

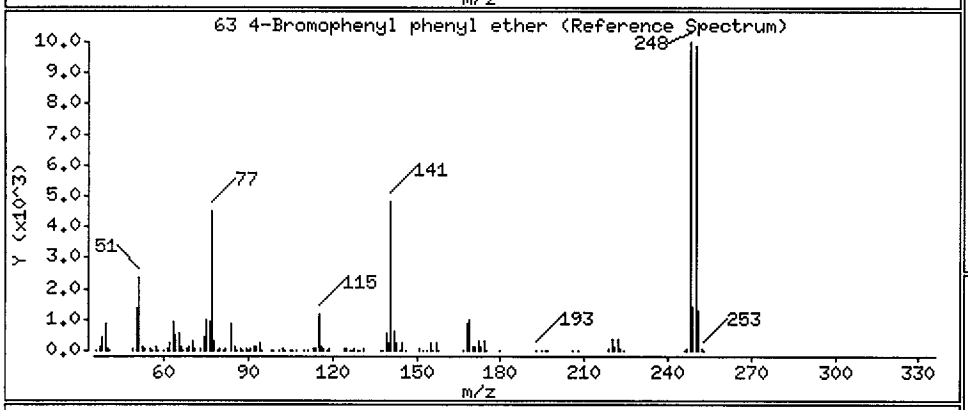
Concentration: 1.34 ug/L

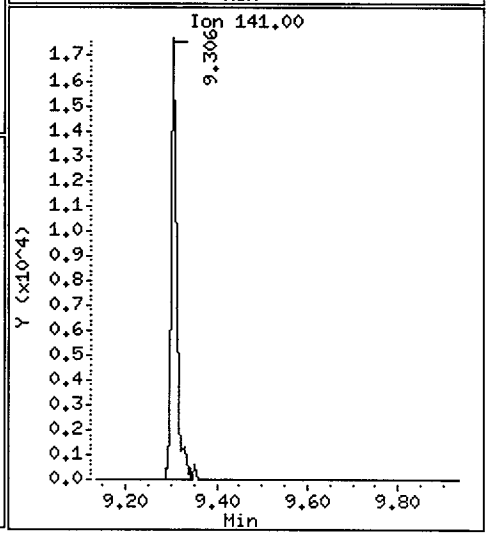


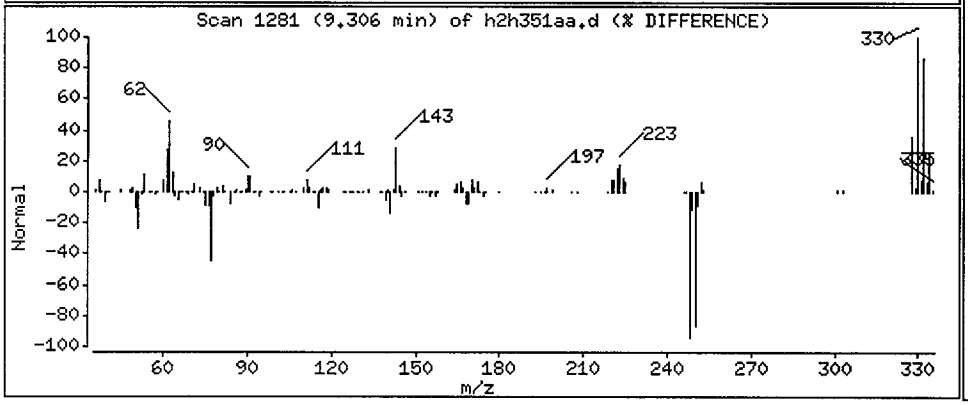












Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Report Date: 19-Apr-2006 15:33

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Lab Smp Id: H2H351AA Client Smp ID: G-2894-R1-SCRUBBER
Inj Date : 18-APR-2006 16:03
Operator : 60841 Inst ID: md.i
Smp Info : H2H351AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	950.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	313764	20.000
* 2 Naphthalene-d8	5.745	250539	20.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Thiocyanic acid, ethyl ester					CAS #: 542-90-5		
3.900	243600	15.5275940	16.3	53	NIST05.1	1822	1
(5-Methyl-2-pyridyl)acetonitrile					CAS #: 1000241-93-9		
3.971	445951	28.4258870	29.9	22	NIST05.1	14047	1

S

Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d
Report Date: 19-Apr-2006 15:33

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
1-Pentene, 2,3-dimethyl-					CAS #: 3404-72-6		
4.112	258954	16.5062914	17.4	37	NIST05.1	3281	1
1,2-Dichlorobenzene-D4					CAS #: 2199-69-1		
4.353	362293	23.0933440	24.3	97	NIST05.1	23149	1
1-Butanamine, 3-methyl-					CAS #: 107-85-7		
5.604	68490	5.46741226	5.76	10	NIST05.1	1880	2

Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d

Date : 18-APR-2006 16:03

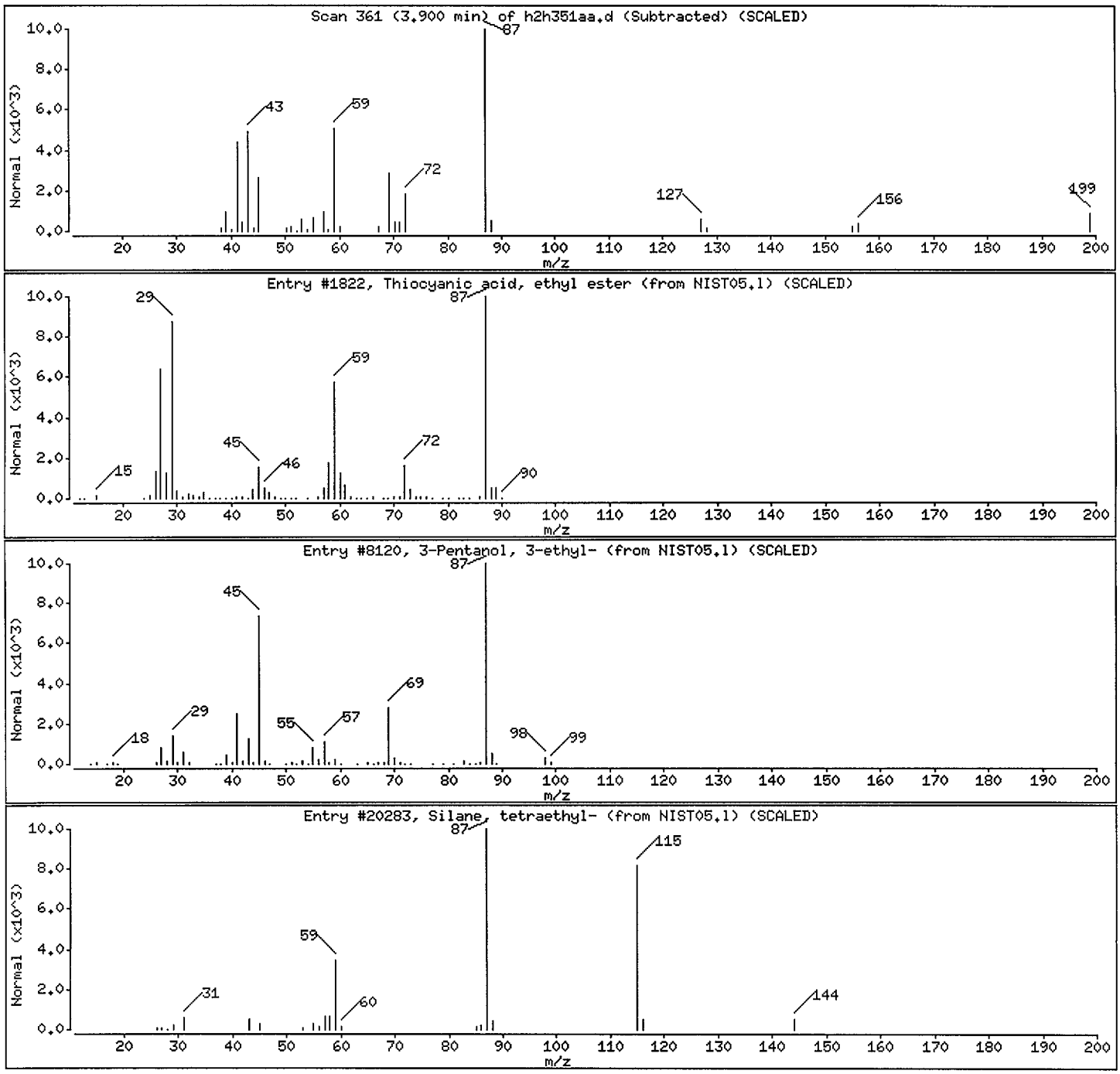
Client ID: G-2894-R1-SCRUBBER | Instrument: md.i

Sample Info: H2H351AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thiocyanic acid, ethyl ester	542-90-5	NIST05.1	1822	53	C3H5NS	87
3-Pentanol, 3-ethyl-	597-49-9	NIST05.1	8120	50	C7H16O	116
Silane, tetraethyl-	631-36-7	NIST05.1	20283	45	C8H20Si	144



Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d

Date : 18-APR-2006 16:03

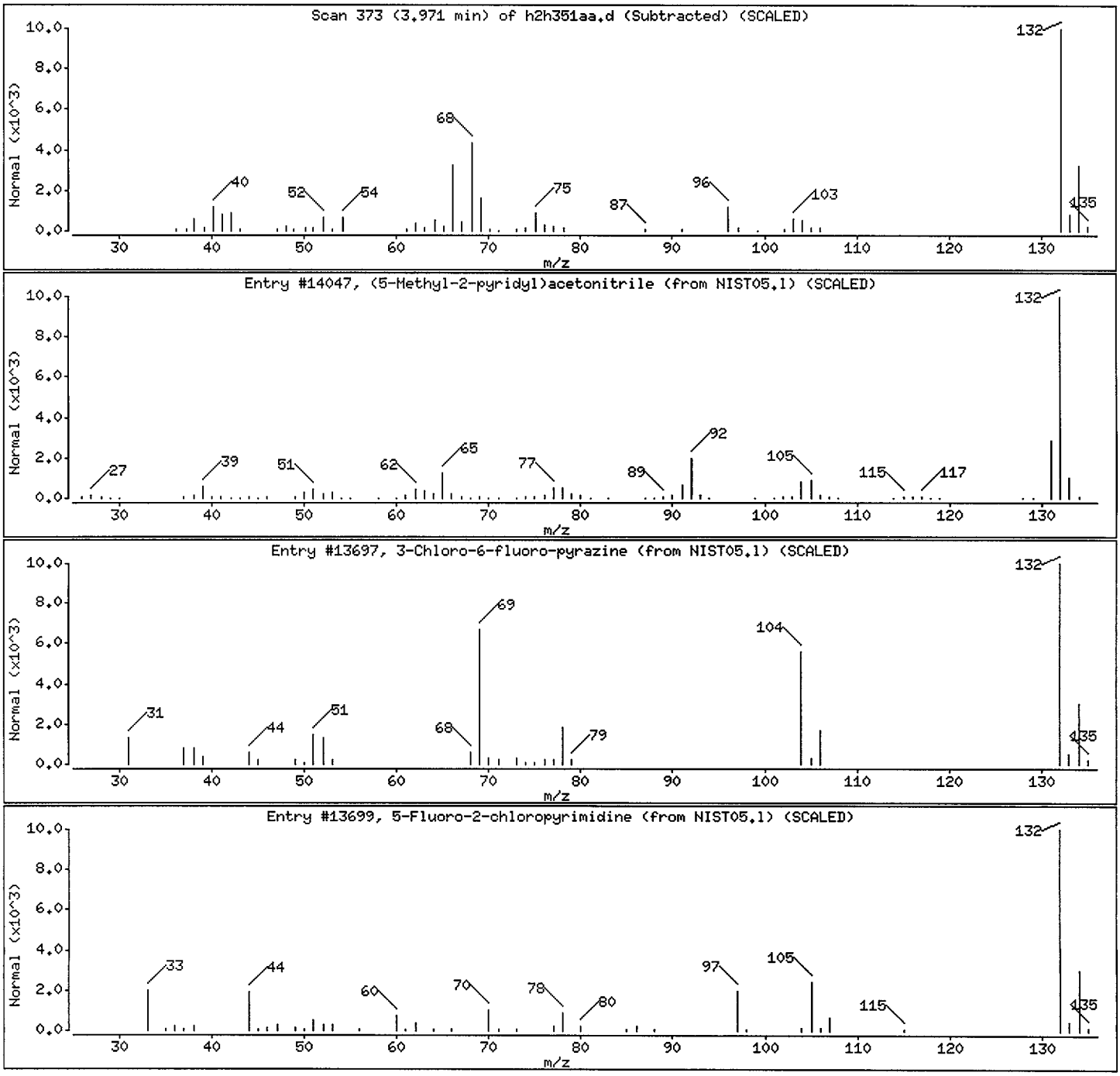
Client ID: G-2894-R1-SCRUBBER | Instrument: md.i

Sample Info: H2H351AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(5-Methyl-2-pyridyl)acetonitrile	1000241-93-9	NIST05.1	14047	22	C8H8N2	132
3-Chloro-6-fluoro-pyrazine	1000146-10-7	NIST05.1	13697	16	C4H2ClFN2	132
5-Fluoro-2-chloropyrimidine	62802-42-0	NIST05.1	13699	16	C4H2ClFN2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d

Date : 18-APR-2006 16:03

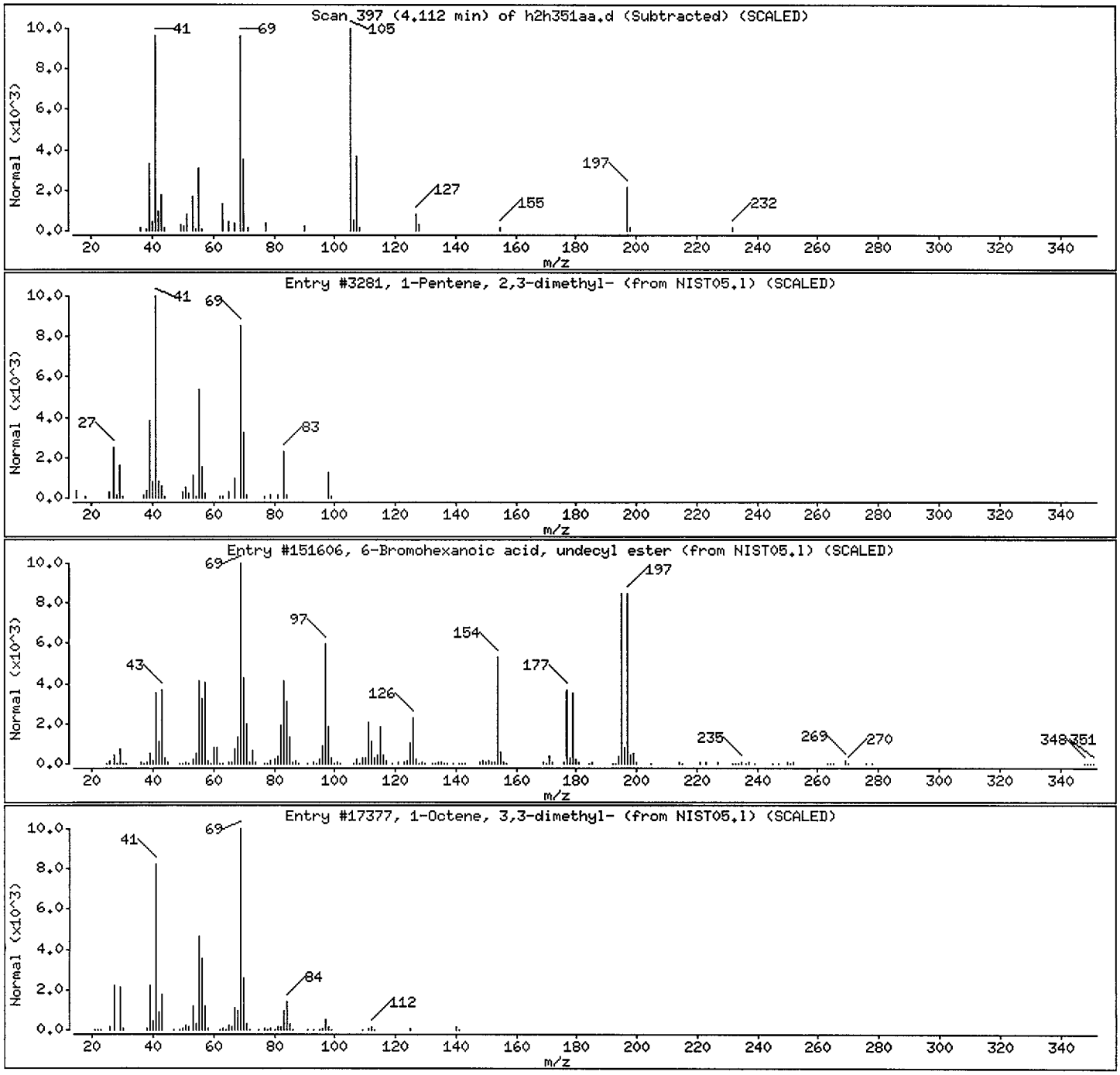
Client ID: G-2894-R1-SCRUBBER | Instrument: md.i

Sample Info: H2H351AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Pentene, 2,3-dimethyl-	3404-72-6	NIST05.1	3281	37	C7H14	98
6-Bromohexanoic acid, undecyl ester	1000282-90-4	NIST05.1	151606	37	C17H33BrO2	348
1-Octene, 3,3-dimethyl-	74511-51-6	NIST05.1	17377	25	C10H20	140



Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d

Date : 18-APR-2006 16:03

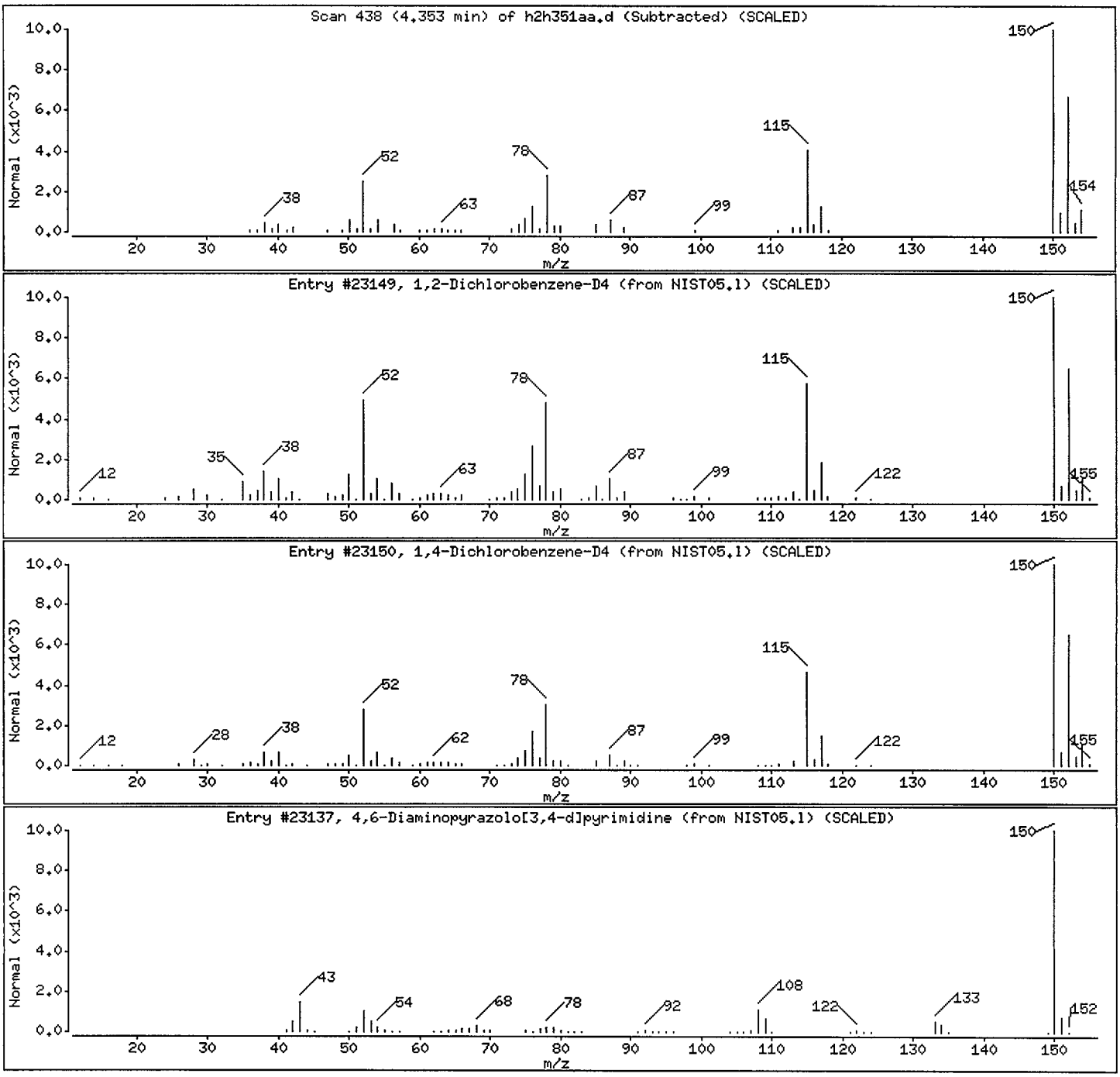
Client ID: G-2894-R1-SCRUBBER | Instrument: md.i

Sample Info: H2H351AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	97	C6D4Cl2	150
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	96	C6D4Cl2	150
4,6-Diaminopyrazolo[3,4-d]pyrimidine	5413-80-9	NIST05.1	23137	37	C5H6N6	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h351aa.d

Date : 18-APR-2006 16:03

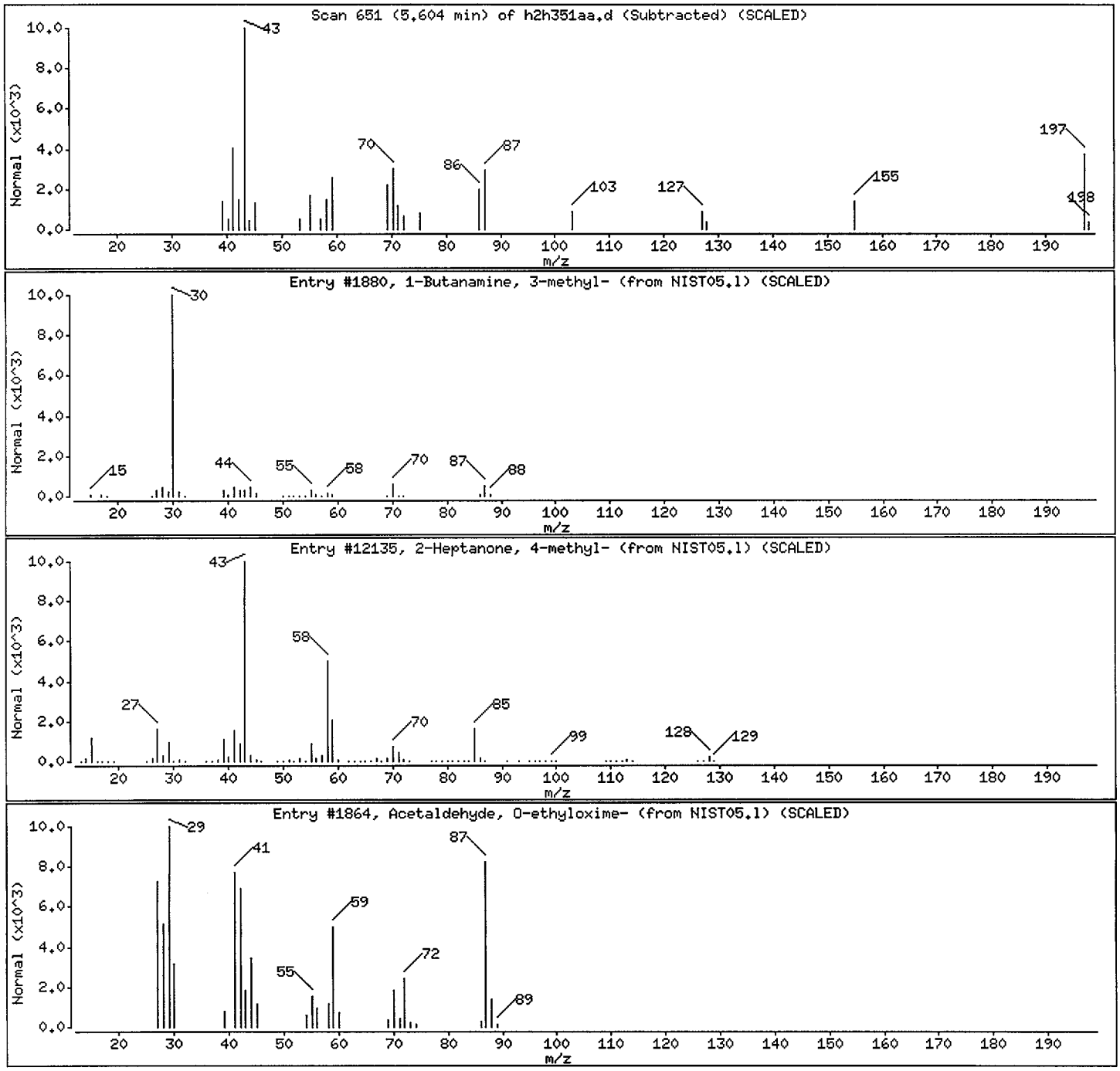
Client ID: G-2894-R1-SCRUBBER | Instrument: md.i

Sample Info: H2H351AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Butanamine, 3-methyl-	107-85-7	NIST05.1	1880	10	C5H13N	87
2-Heptanone, 4-methyl-	6137-06-0	NIST05.1	12135	10	C8H16O	128
Acetaldehyde, O-ethyloxime-	1000288-34-6	NIST05.1	1864	9	C4H9NO	87



STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(36 - 98)
Phenol-d5	50	(49 - 109)
Nitrobenzene-d5	67	(57 - 120)
2-Fluorobiphenyl	82	(56 - 118)
2,4,6-Tribromophenol	54 *	(55 - 134)
Terphenyl-d14	91	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-003 **Work Order #:** H2H371AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	3.6241	ug/L
Unknown		150 NJ	M	3.9061	ug/L
Unknown		97 NJ	M	4.1117	ug/L
Unknown		52 NJ	M	5.6041	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	5.9 NJ	M	10.275	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Report Date: 19-Apr-2006 13:54

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Lab Smp Id: H2H371AA Client Smp ID: G-2898-R1-POTW DISC
Inj Date : 18-APR-2006 17:14
Operator : 60841 Inst ID: md.i
Smp Info : H2H371AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	960.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	58066	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	176351	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	123150	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	226099	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	231102	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	199548	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	125026	30.7898	32.1
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	185358	37.8424	39.4
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	133558	33.5975	35.0
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	331530	40.8357	42.5
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	57585	40.1659	41.8(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	511178	45.4764	47.4
21 Benzyl alcohol	108	4.112	4.323	(0.989)	5819	2.26692	~~2.36~~
23 2-Methylphenol	108	4.112	4.476	(0.989)	5819	1.58249	~~1.65~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Report Date: 19-Apr-2006 13:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
24 2,2'-Oxybis(1-Chloropropane)	45	4.171	4.500	(1.003)	16914	2.72428	~~2.84~~
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	3162	1.25701	~~1.31~~
84 Benzidine	184	11.204	11.016	(1.129)	5742	0.61963	~~0.645~~

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Report Date: 19-Apr-2006 13:54

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h371aa.d
Lab Smp Id: H2H371AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2898-R1-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	58066	-6.23
2 Naphthalene-d8	196946	98473	393892	176351	-10.46
3 Acenaphthene-d10	140395	70198	280790	123150	-12.28
4 Phenanthrene-d10	245474	122737	490948	226099	-7.89
5 Chrysene-d12	253631	126816	507262	231102	-8.88
6 Perylene-d12	225613	112806	451226	199548	-11.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Report Date: 19-Apr-2006 13:54

STL Knoxville

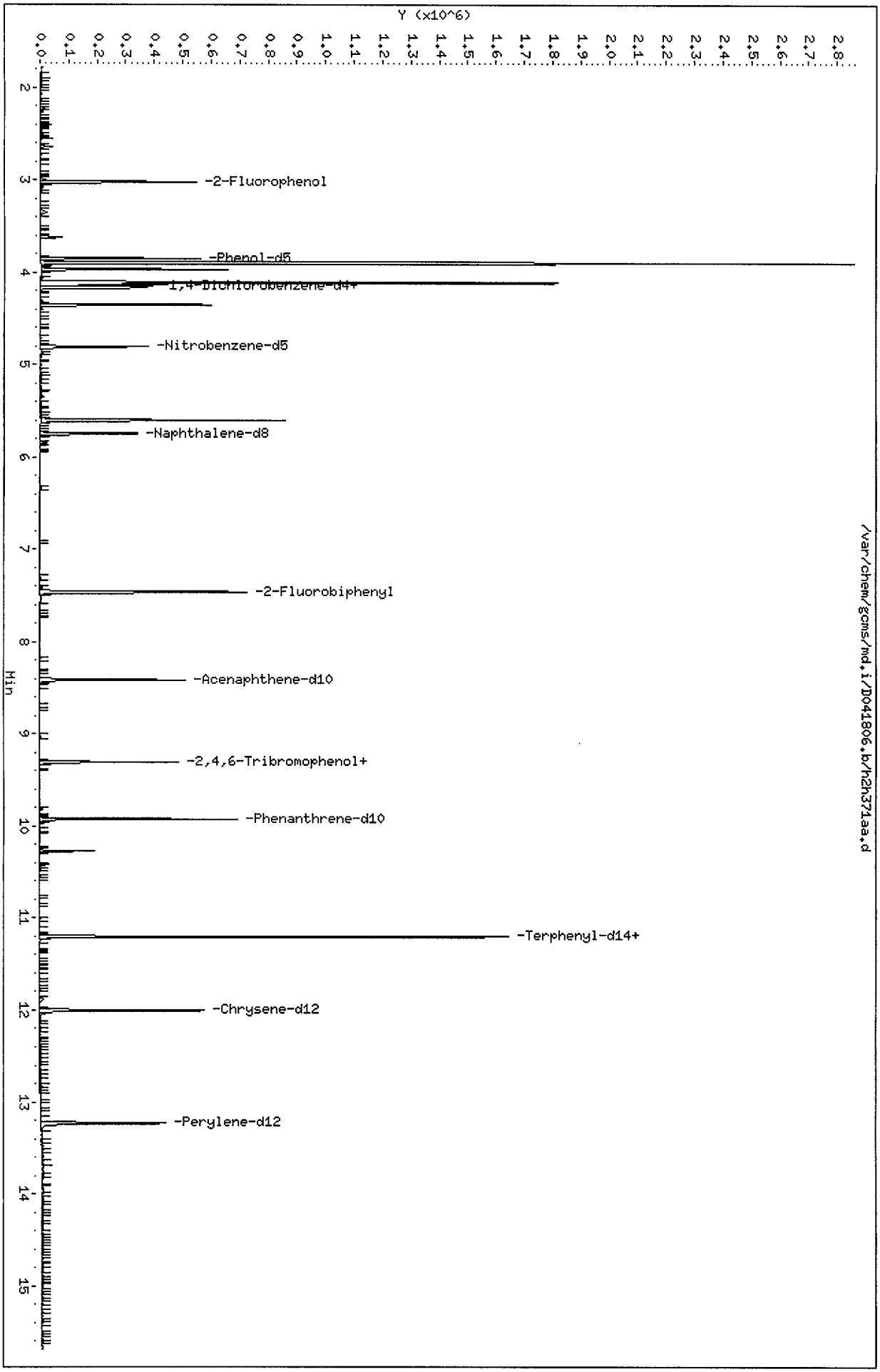
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H371AA
Client Smp ID: G-2898-R1-POTW DISC
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.1	32.1	41.05	36-98
$ 8 Phenol-d5	78.1	39.4	50.46	49-109
$ 9 Nitrobenzene-d5	52.1	35.0	67.20	57-120
$ 10 2-Fluorobiphenyl	52.1	42.5	81.67	56-118
$ 11 2,4,6-Tribromophen	78.1	41.8	53.55*	55-134
$ 12 Terphenyl-d14	52.1	47.4	90.95	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Date : 18-APR-2006 17:14
Client ID: G-2898-R1-PDTW DISC
Sample Info: H2H371AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0

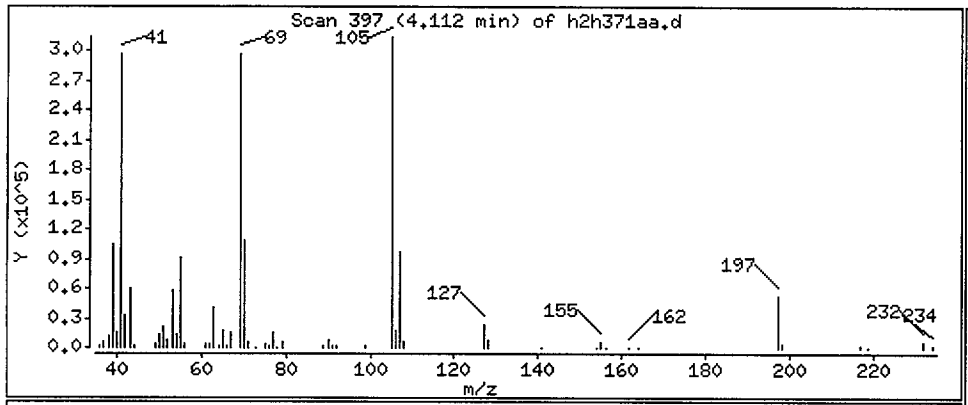
Operator: 60841

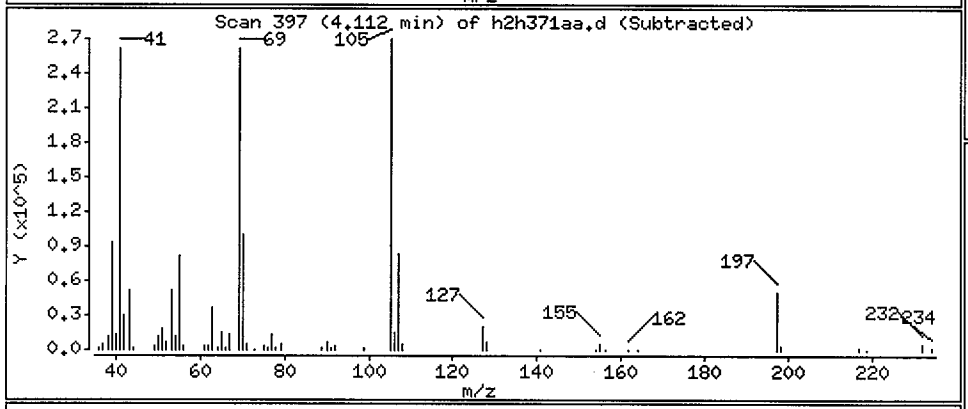
Column phase: ZB-5

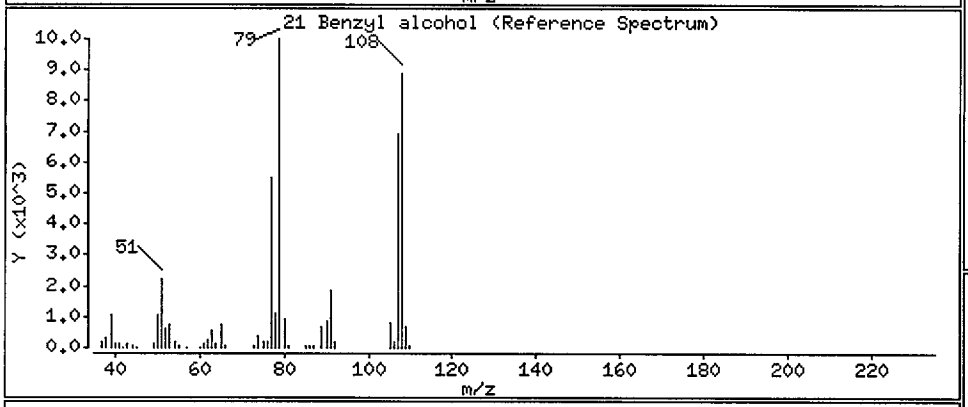
Column diameter: 0.25

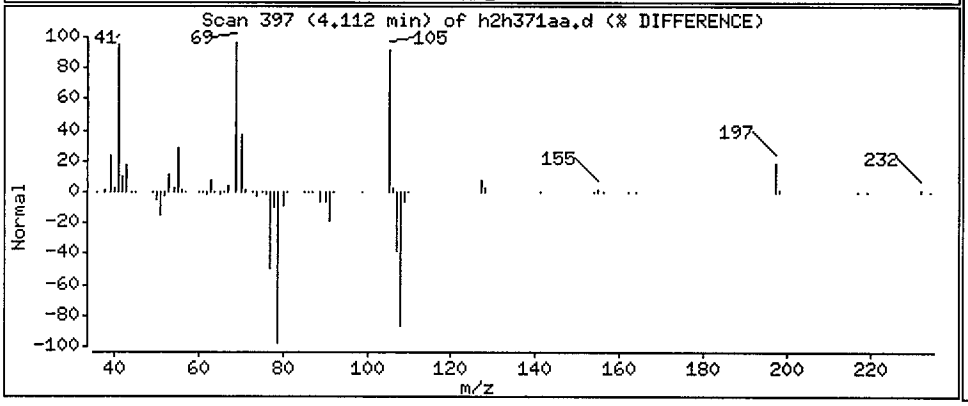
21 Benzyl alcohol

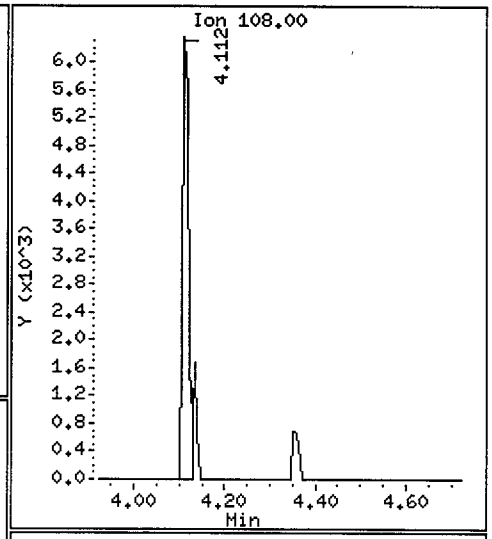
Concentration: 2.36 ug/L

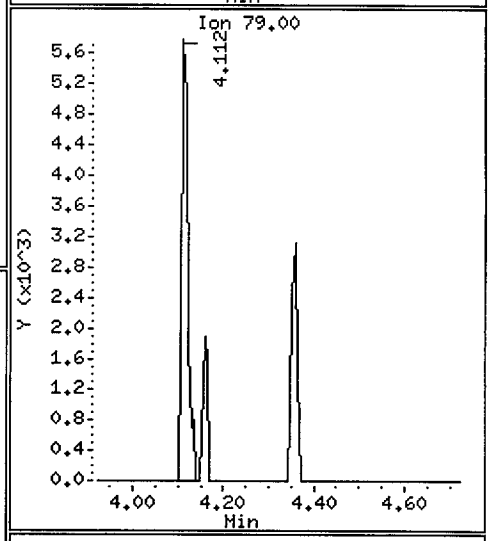


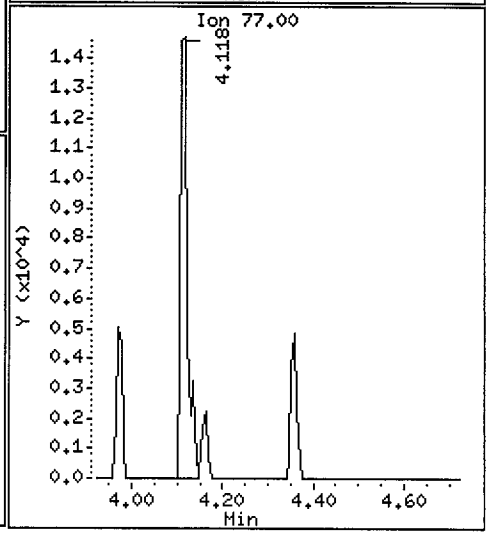












Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0

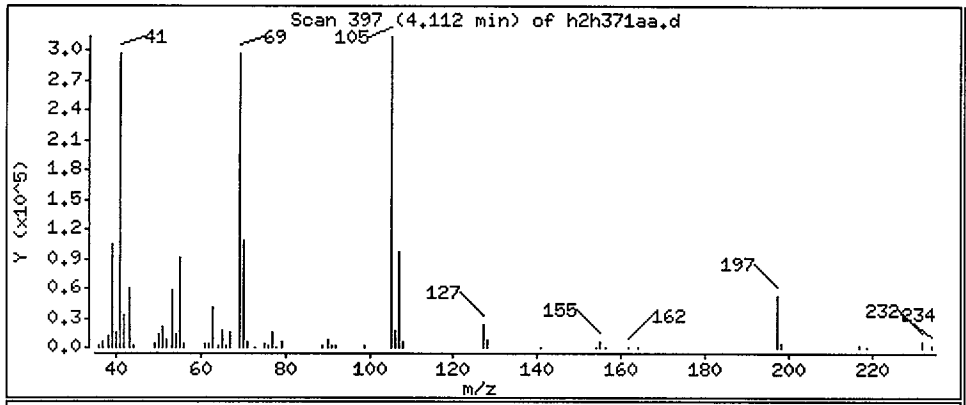
Operator: 60841

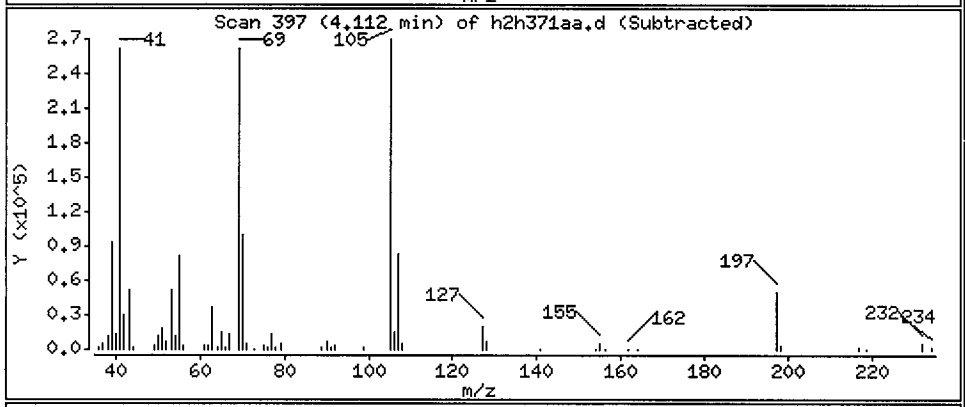
Column phase: ZB-5

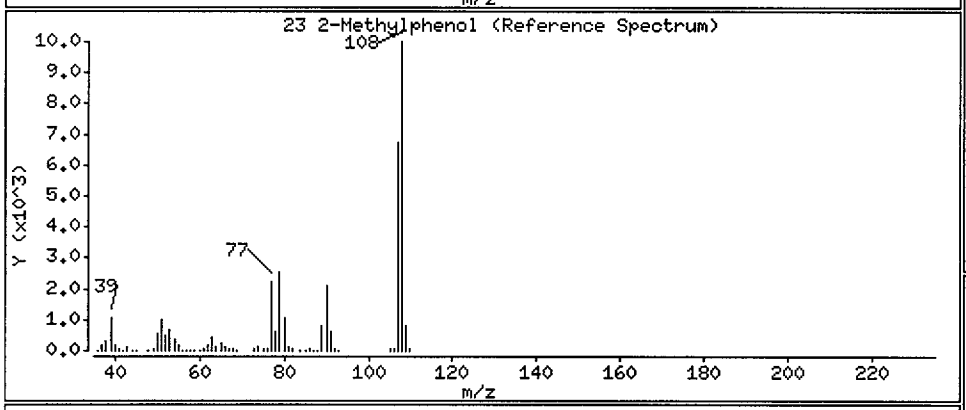
Column diameter: 0.25

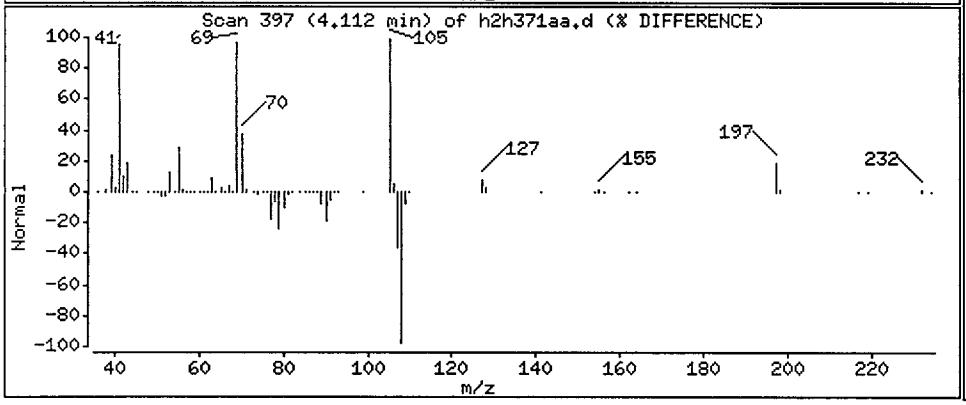
23 2-Methylphenol

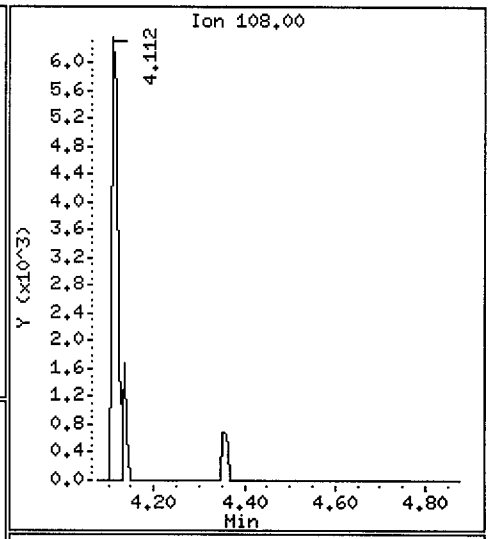
Concentration: 1.65 ug/L

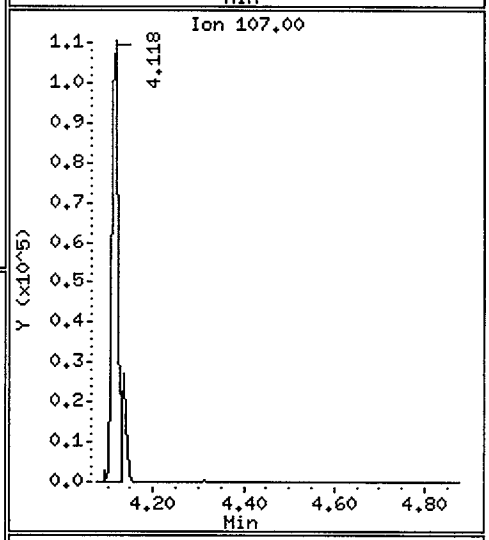


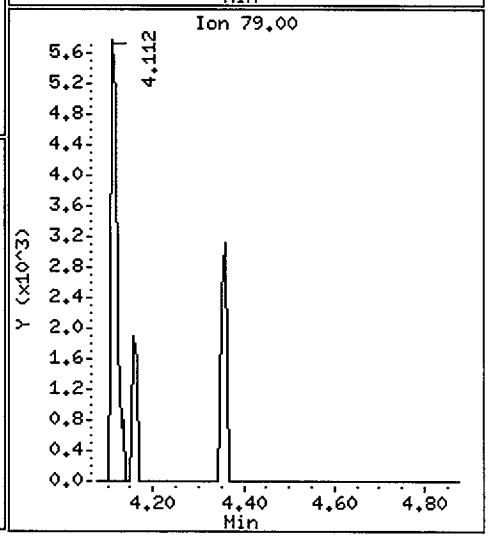












Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0

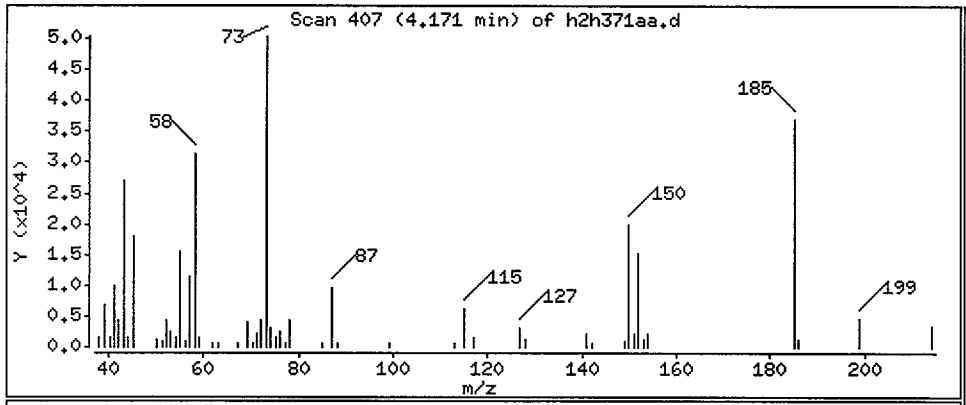
Operator: 60841

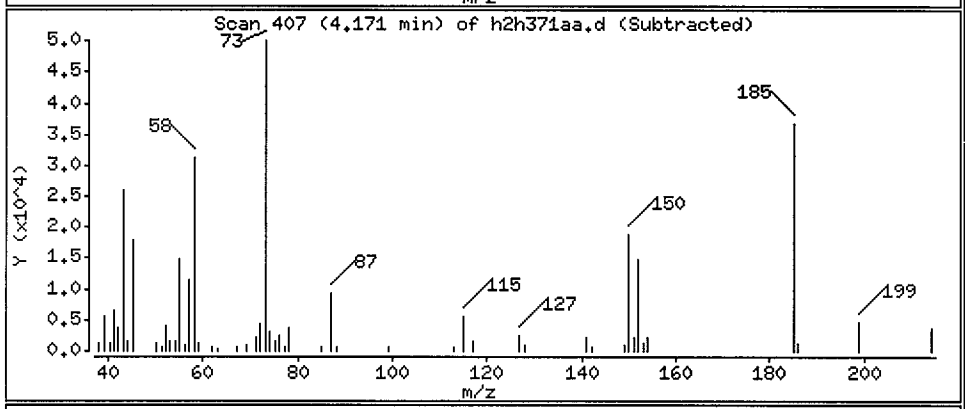
Column phase: ZB-5

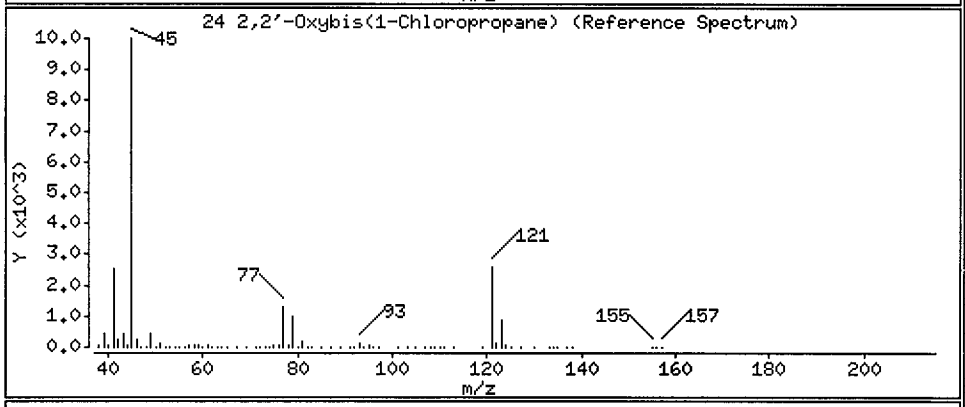
Column diameter: 0.25

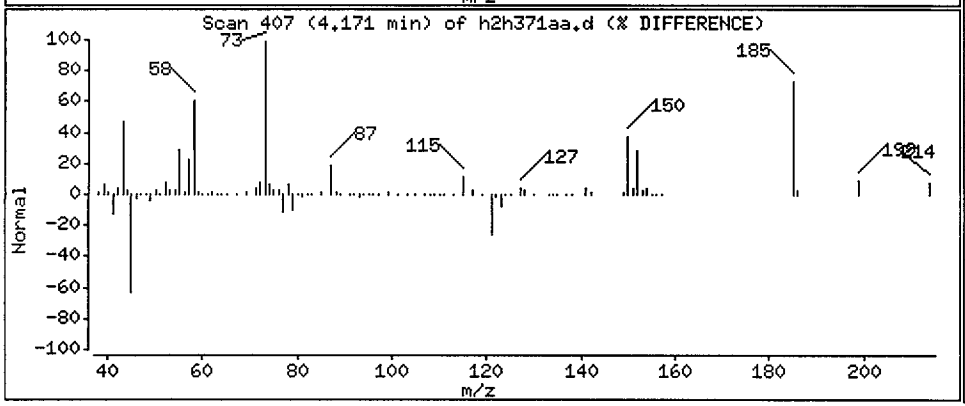
24 2,2'-Oxybis(1-Chloropropane)

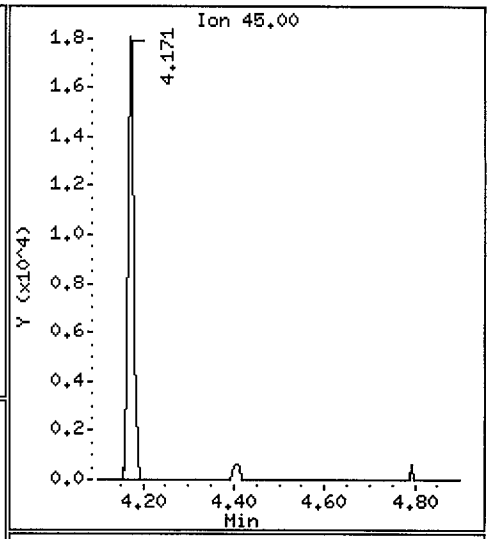
Concentration: 2.84 ug/L

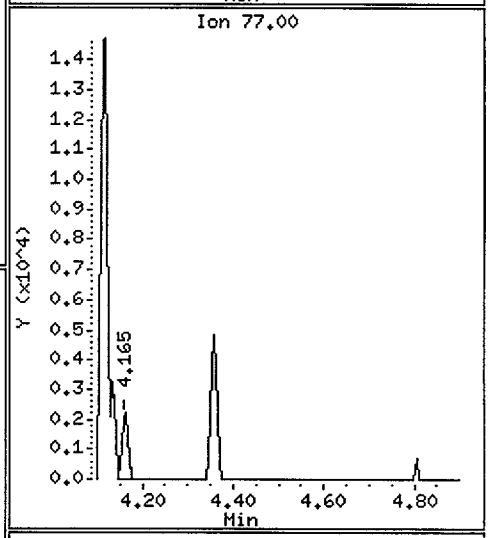


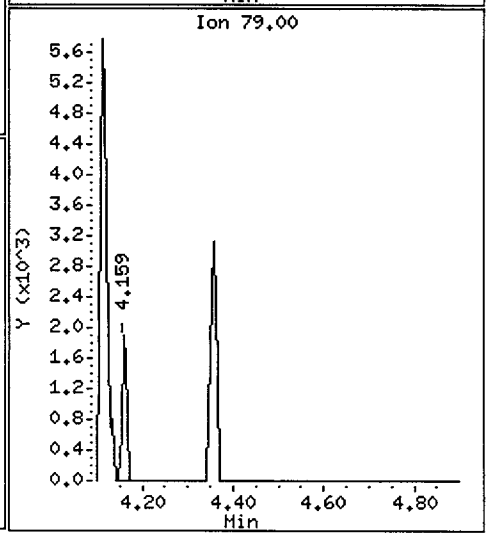












Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0

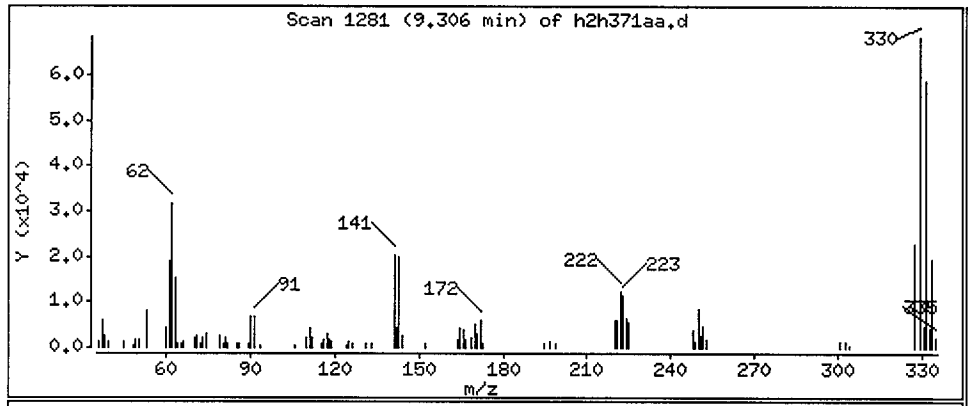
Operator: 60841

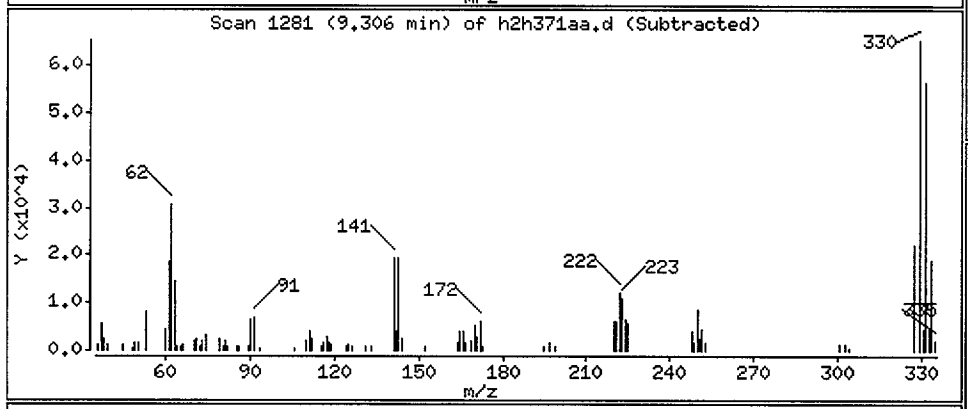
Column phase: ZB-5

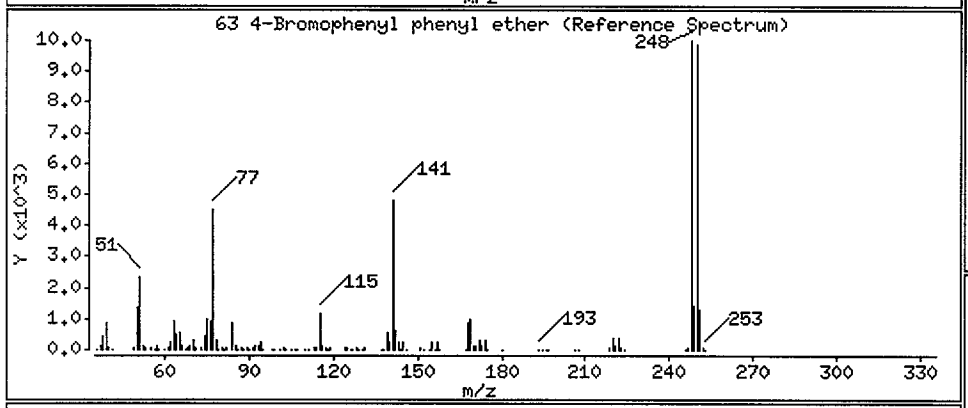
Column diameter: 0.25

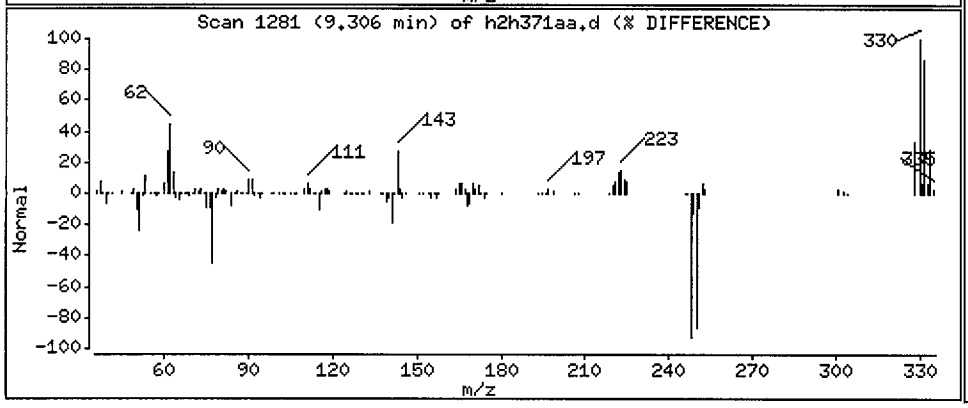
63 4-Bromophenyl phenyl ether

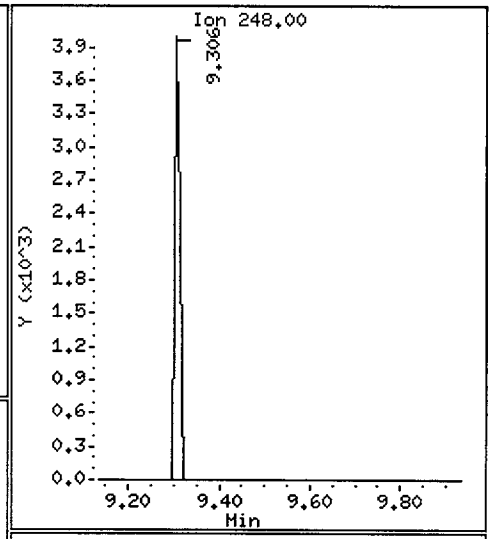
Concentration: 1.31 ug/L

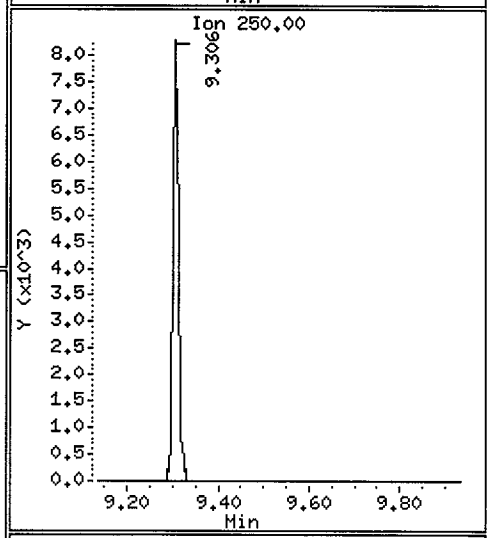


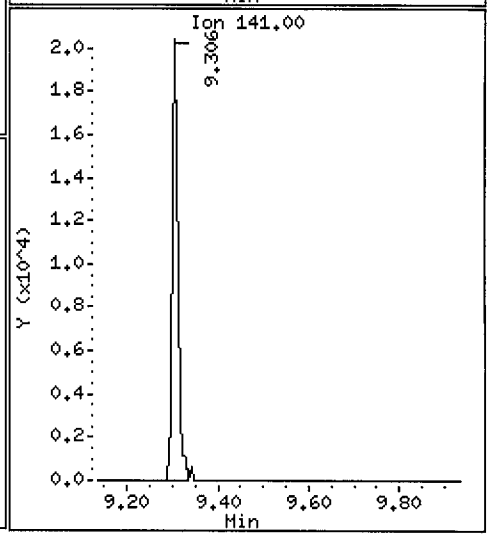












Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0

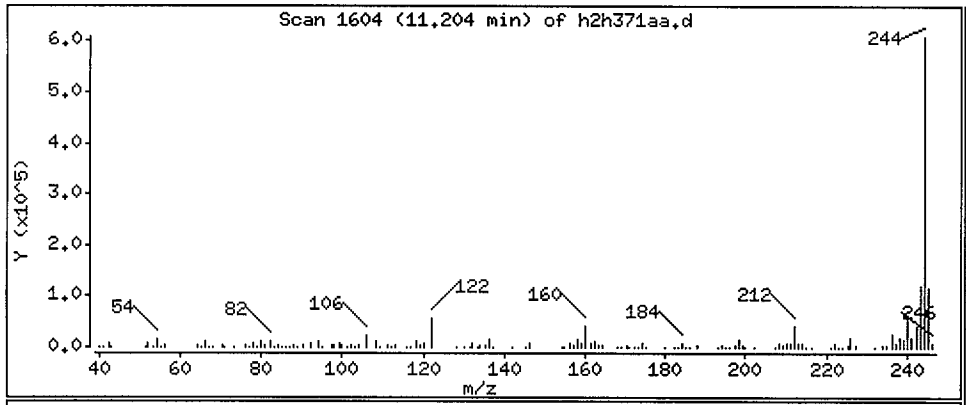
Operator: 60841

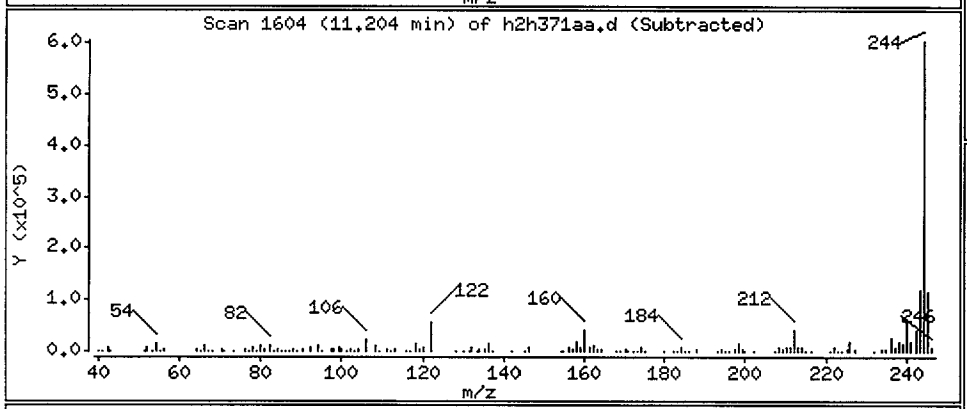
Column phase: ZB-5

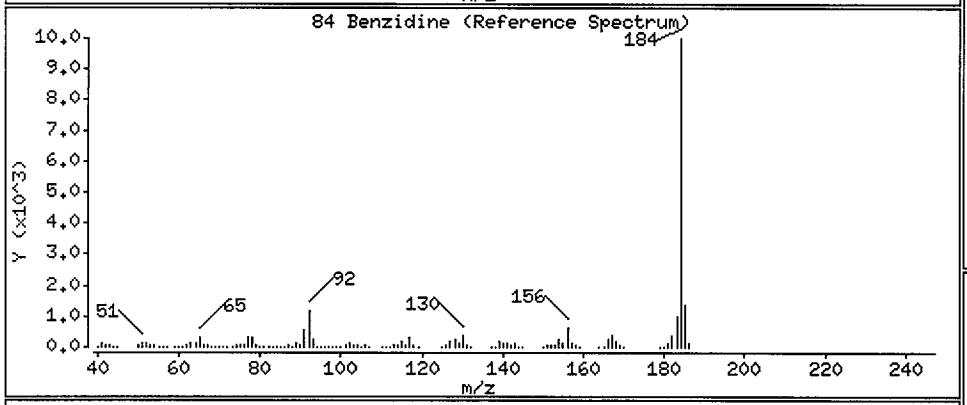
Column diameter: 0.25

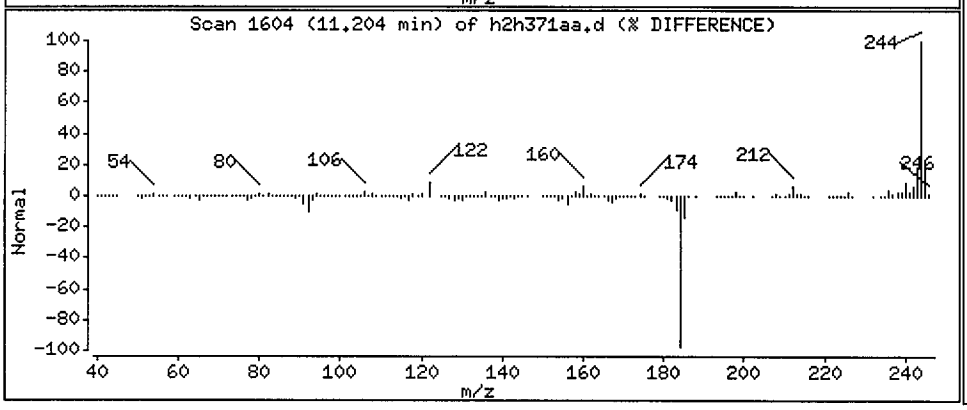
84 Benzidine

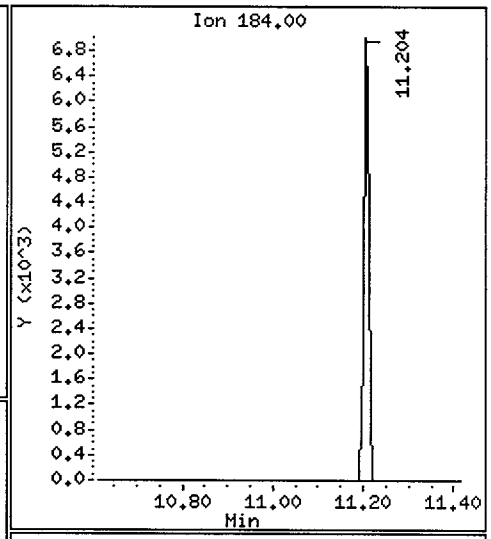
Concentration: 0.645 ug/L

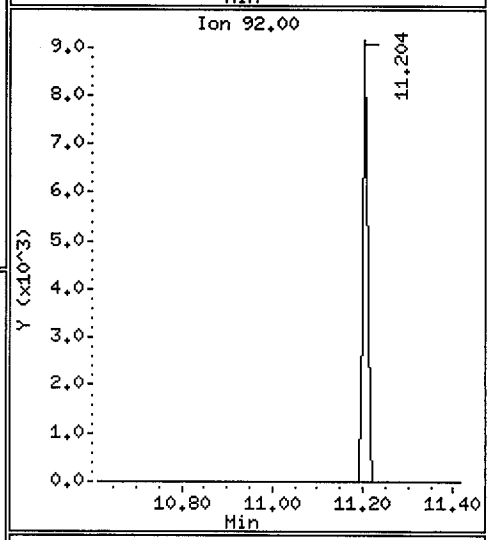


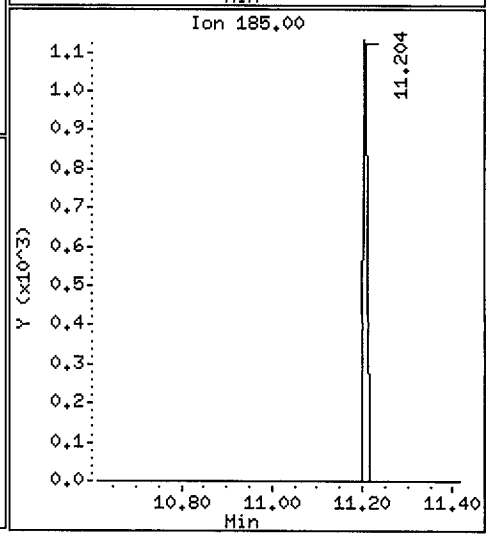












Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Report Date: 19-Apr-2006 15:35

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Lab Smp Id: H2H371AA Client Smp ID: G-2898-R1-POTW DISC
Inj Date : 18-APR-2006 17:14
Operator : 60841 Inst ID: md.i
Smp Info : H2H371AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	960.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	391850	20.000
* 2 Naphthalene-d8	5.751	340562	20.000
* 4 Phenanthrene-d10	9.923	689000	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
4-Dichloromethyl-4-methyl-2,5-cyclohexad					CAS #: 6611-78-5		
3.624	78694	4.01653694	4.18	33	NIST05.1	50307	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d
Report Date: 19-Apr-2006 15:35

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Octen-1-ol, 7-ethoxy-3,7-dimethyl-, (E					CAS #: 1000132-19-5		
3.906	2859499	145.948654	152	53	NIST05.1	57130	1
3-Chloro-6-fluoro-pyrazine					CAS #: 1000146-10-7		
3.971	653937	33.3779252	34.8	27	NIST05.1	13697	1
1-Pentene, 2,3-dimethyl-					CAS #: 3404-72-6		
4.112	1819667	92.8756922	96.7	38	NIST05.1	3281	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	598745	30.5599081	31.8	94	NIST05.1	23150	1
2,5-Isoxazolidinedicarboxylic acid, 2-et					CAS #: 15166-62-8		
5.604	856401	50.2933974	52.4	11	NIST05.1	59171	2
N,N-Diethyl-p-nitroaniline					CAS #: 2216-15-1		
10.275	193910	5.62873730	5.86	98	NIST05.1	52341	4

Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

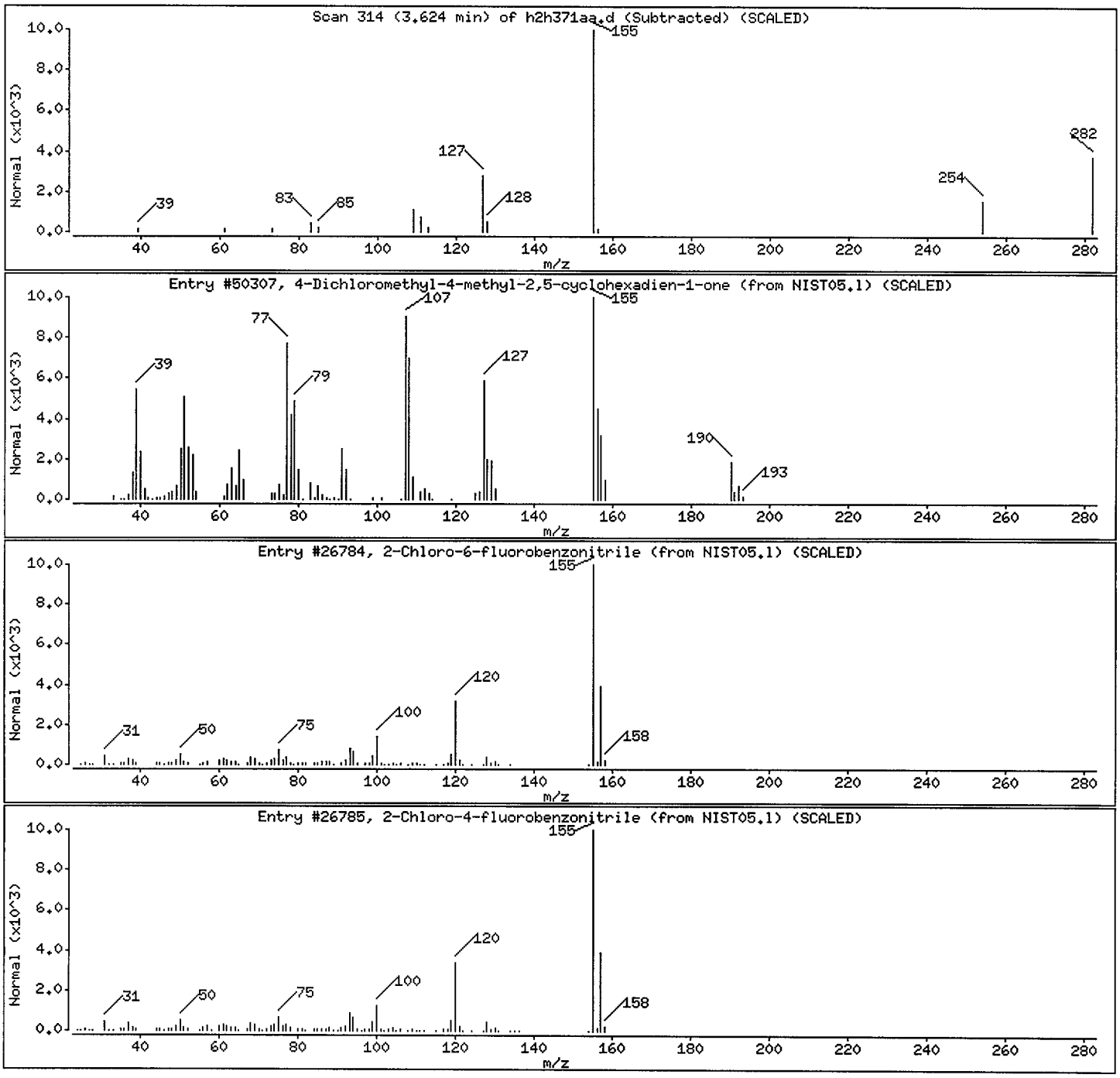
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-Dichloromethyl-4-methyl-2,5-cyclohexad	6611-78-5	NIST05.1	50307	33	C8H8Cl2O	190
2-Chloro-6-fluorobenzonitrile	668-45-1	NIST05.1	26784	7	C7H3ClFN	155
2-Chloro-4-fluorobenzonitrile	60702-69-4	NIST05.1	26785	7	C7H3ClFN	155



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

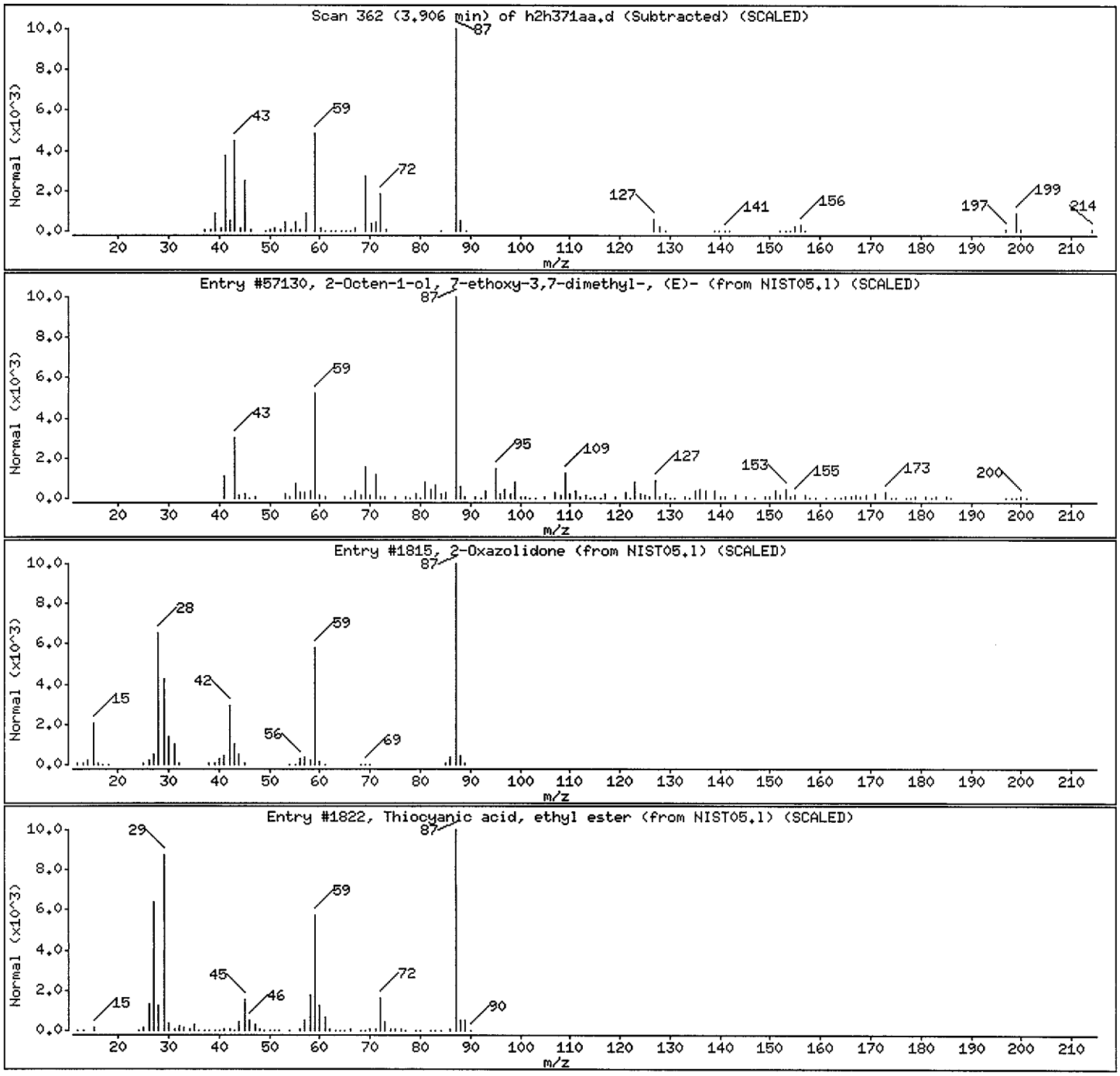
Client ID: G-2898-R1-POTW DISC | Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Octen-1-ol, 7-ethoxy-3,7-dimethyl-, (E	1000132-19-5	NIST05.1	57130	53	C12H24O2	200
2-Oxazolidone	497-25-6	NIST05.1	1815	53	C3H5NO2	87
Thiocyanic acid, ethyl ester	542-90-5	NIST05.1	1822	45	C3H5NS	87



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

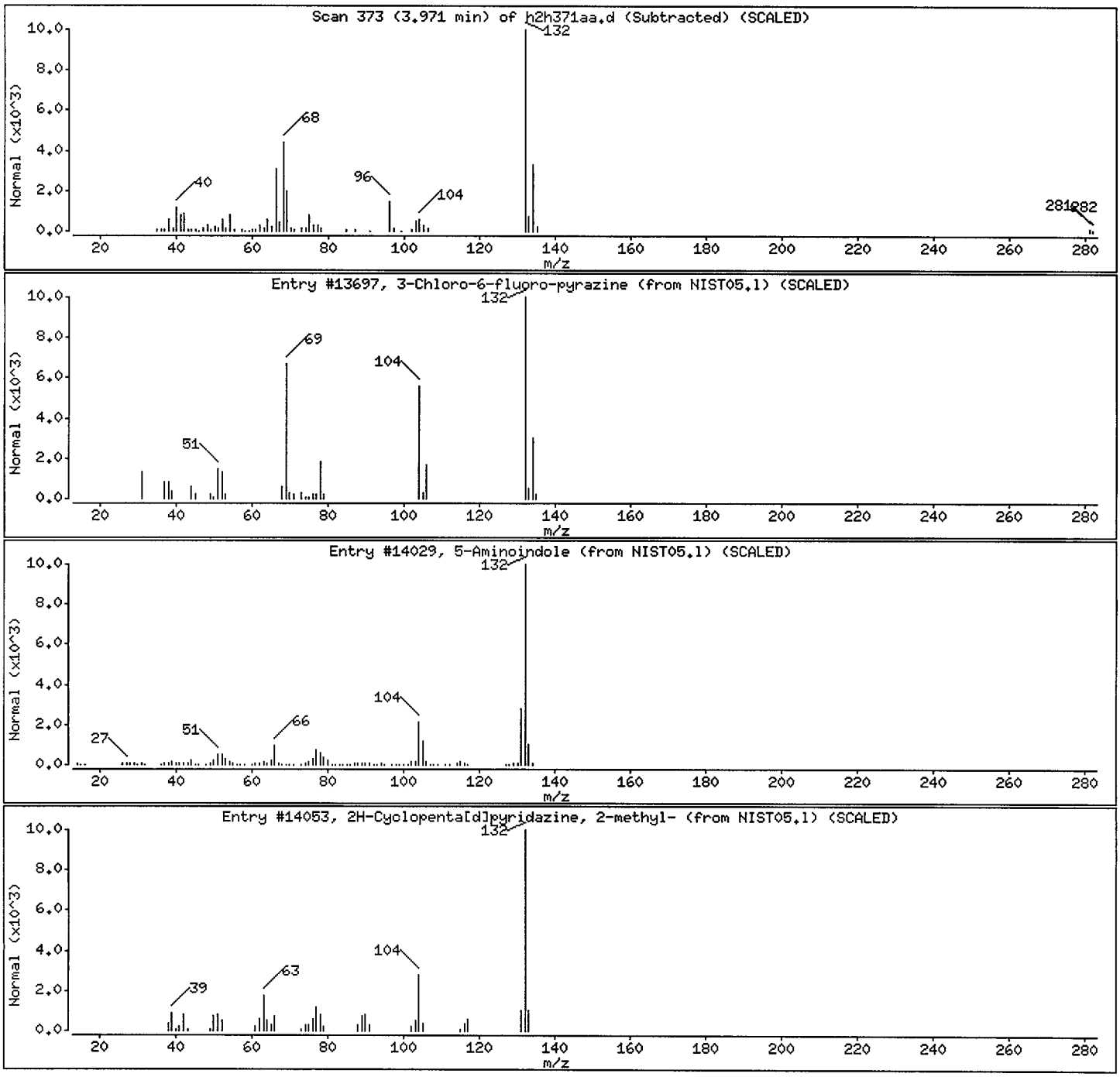
Client ID: G-2898-R1-POTW DISC | Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Chloro-6-fluoro-pyrazine	1000146-10-7	NIST05.1	13697	27	C4H2ClFN2	132
5-Aminoindole	5192-03-0	NIST05.1	14029	16	C8H8N2	132
2H-Cyclopenta[d]pyridazine, 2-methyl-	22291-85-6	NIST05.1	14053	12	C8H8N2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

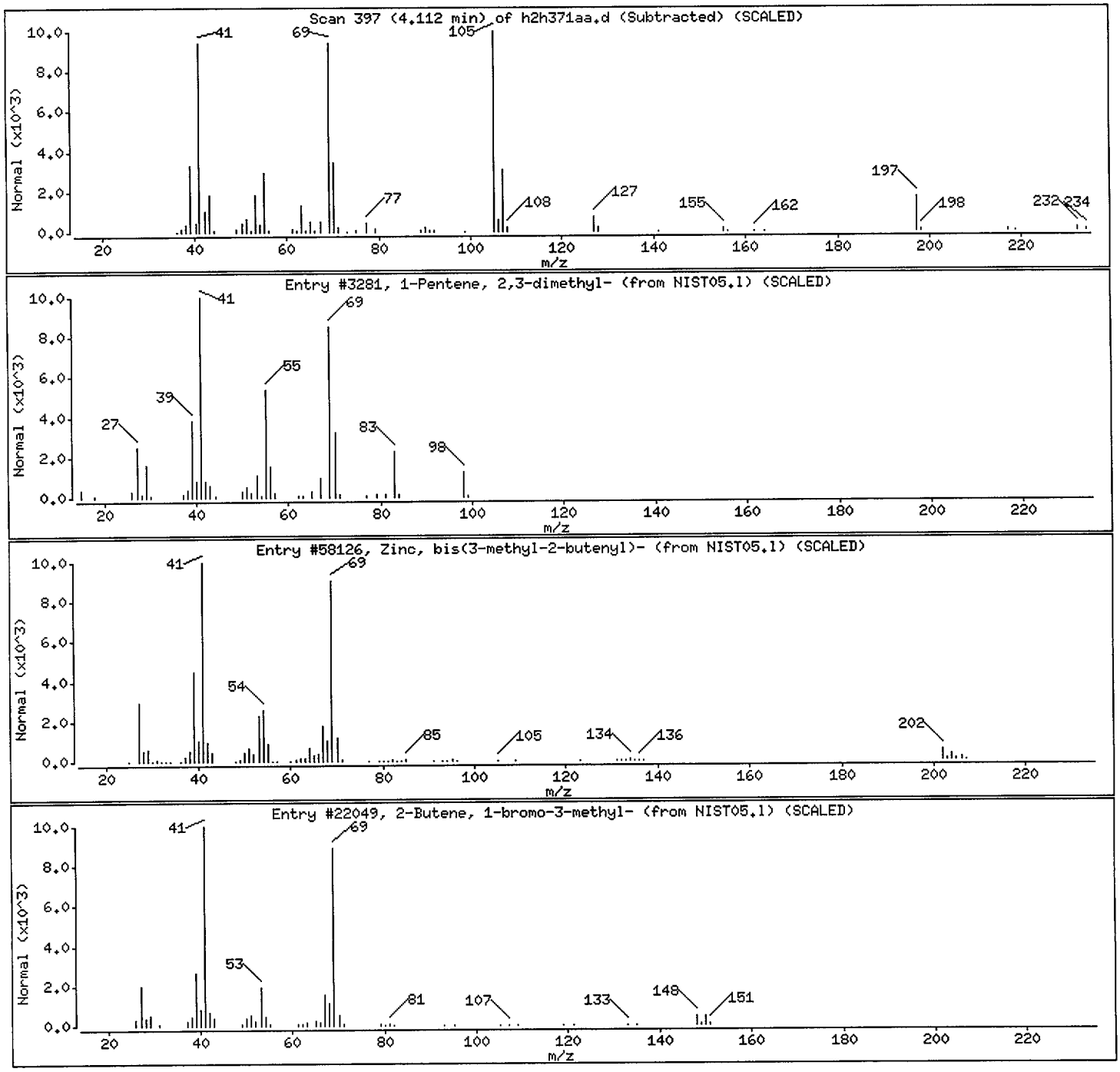
Client ID: G-2898-R1-POTW DISC | Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Pentene, 2,3-dimethyl-	3404-72-6	NIST05.1	3281	38	C7H14	98
Zinc, bis(3-methyl-2-butenyl)-	66094-28-8	NIST05.1	58126	32	C10H18Zn	202
2-Butene, 1-bromo-3-methyl-	870-63-3	NIST05.1	22049	32	C5H9Br	148



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

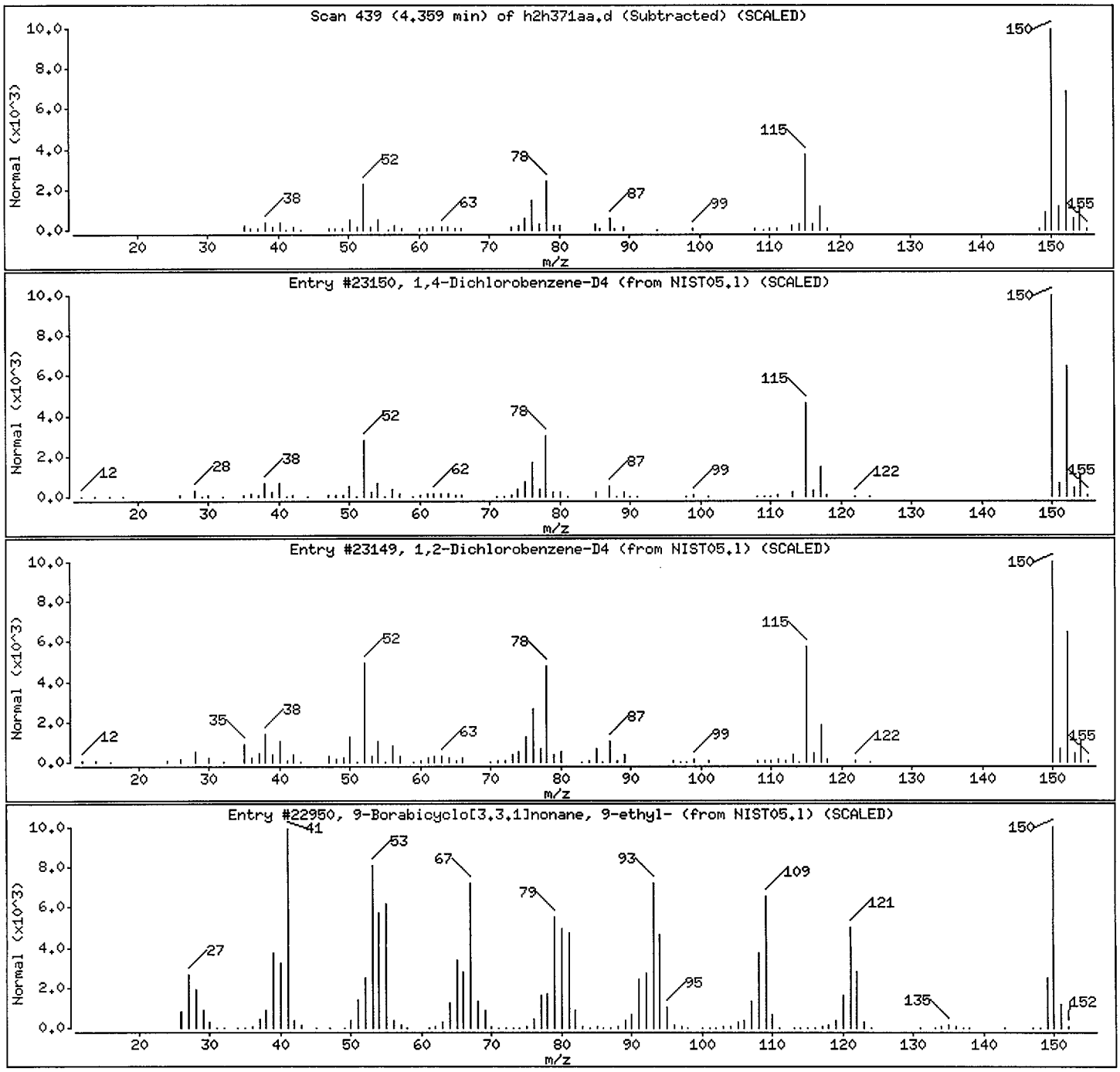
Client ID: G-2898-R1-POTW DISC | Instrument: md.i

Sample Info: H2H371AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	94	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	43	C10H19B	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

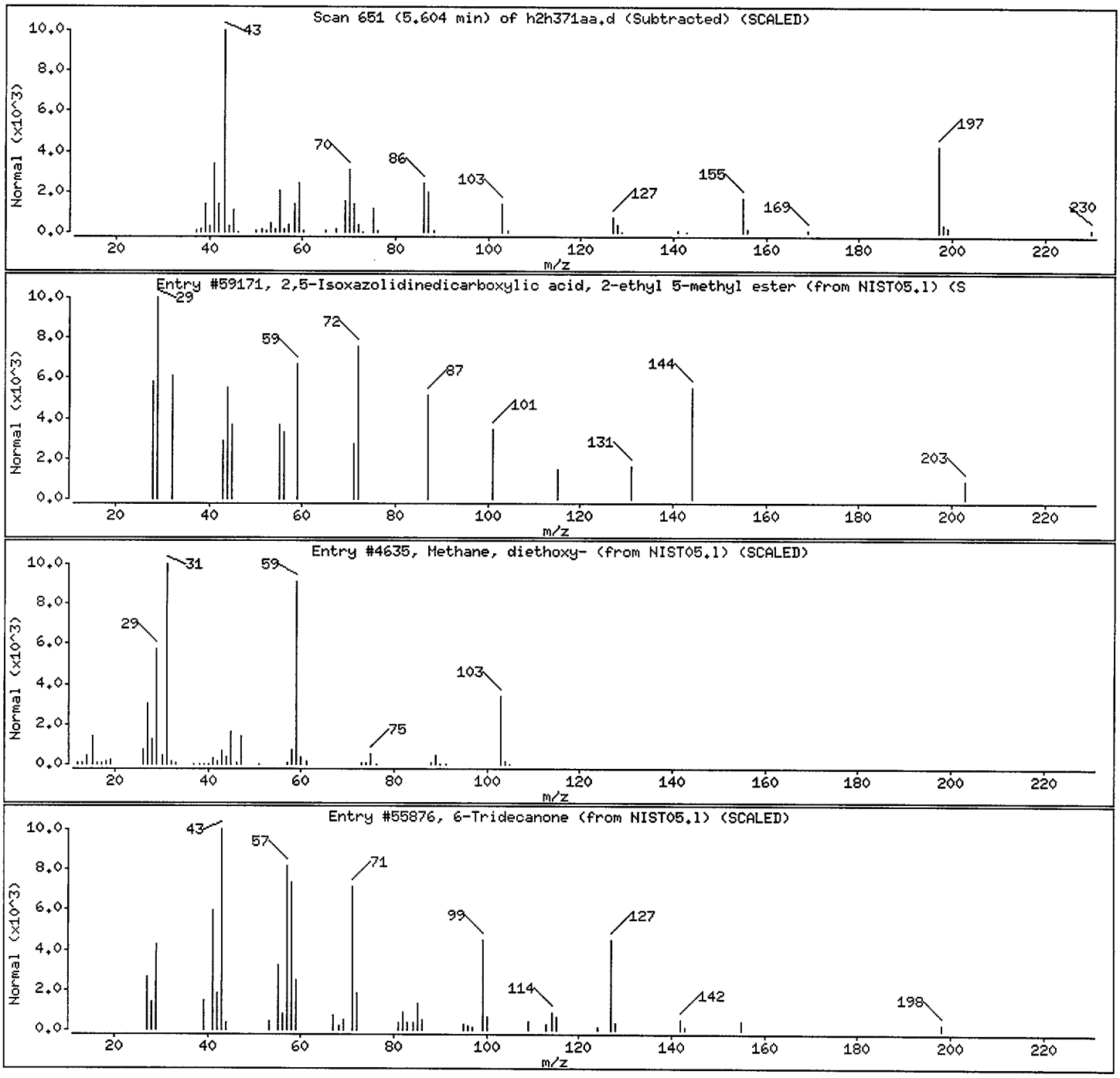
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,5-Isoxazolidinedicarboxylic acid, 2-et	15166-62-8	NIST05.1	59171	11	C8H13NO5	203
Methane, diethoxy-	462-95-3	NIST05.1	4635	9	C5H12O2	104
6-Tridecanone	22026-12-6	NIST05.1	55876	9	C13H26O	198



Data File: /var/chem/gcms/md.i/D041806.b/h2h371aa.d

Date : 18-APR-2006 17:14

Client ID: G-2898-R1-POTW DISC

Instrument: md.i

Sample Info: H2H371AA,,0,,,,

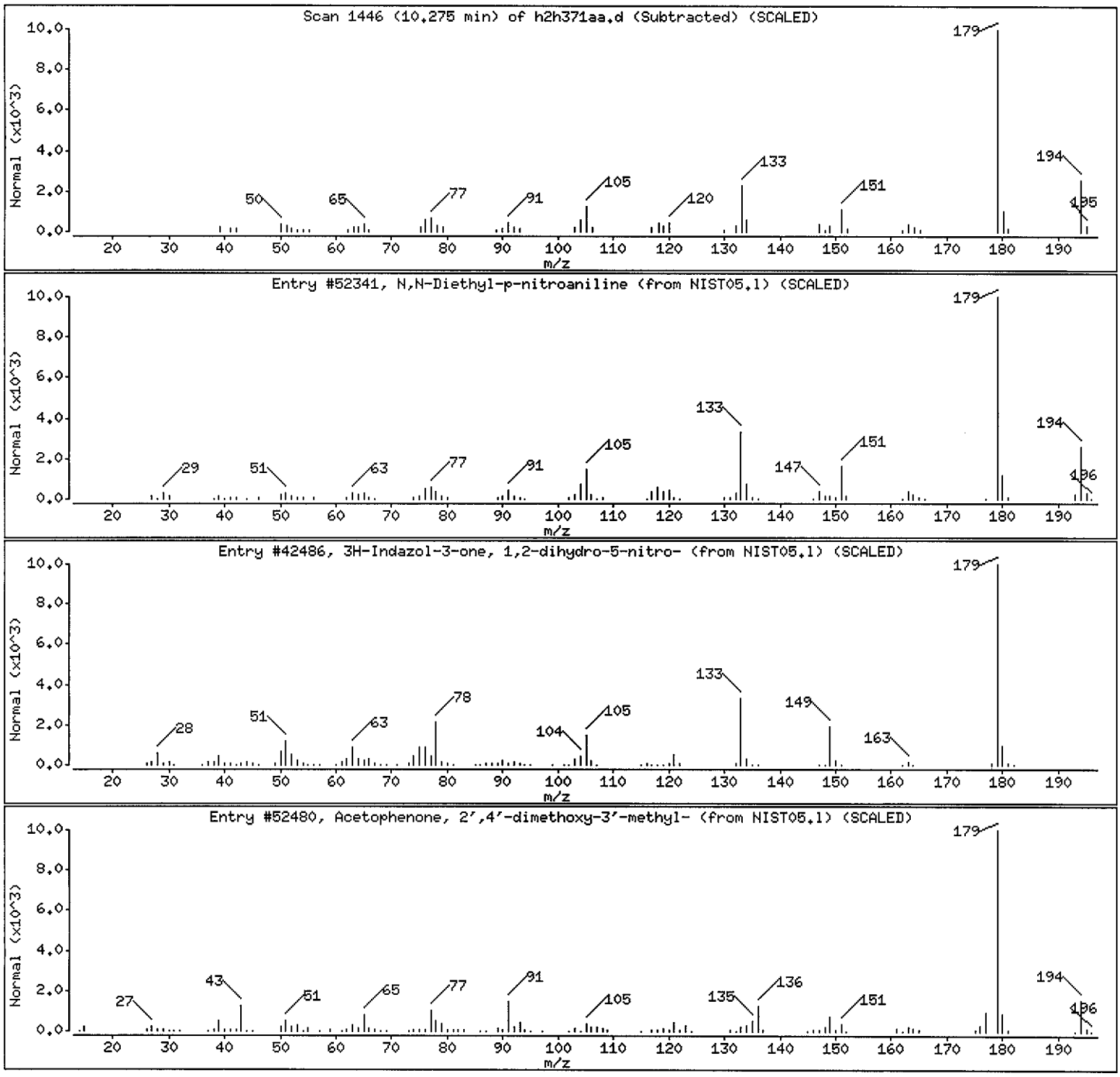
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
N,N-Diethyl-p-nitroaniline	2216-15-1	NIST05.1	52341	98	C10H14N2O2	194
3H-Indazol-3-one, 1,2-dihydro-5-nitro-	61346-19-8	NIST05.1	42486	53	C7H5N3O3	179
Acetophenone, 2',4'-dimethoxy-3'-methyl-	60512-80-3	NIST05.1	52480	50	C11H14O3	194



STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	100	ug/L	5.0
Acenaphthylene	ND	100	ug/L	5.8
Acetophenone	ND	100	ug/L	7.3
Aniline	ND	100	ug/L	8.7
Anthracene	ND	100	ug/L	8.2
Benz(a)anthracene	ND	100	ug/L	9.3
Benzidine	ND	1000	ug/L	250
Benzo(b)fluoranthene	ND	100	ug/L	10
Benzo(k)fluoranthene	ND	100	ug/L	13
Benzoic acid	ND	500	ug/L	90
Benzo(ghi)perylene	ND	100	ug/L	7.0
Benzo(a)pyrene	ND	100	ug/L	17
Benzyl alcohol	ND	100	ug/L	20
bis(2-Chloroethoxy) methane	ND	100	ug/L	20
bis(2-Chloroethyl)- ether	ND	100	ug/L	6.3
bis(2-Ethylhexyl) phthalate	**41 J**	**100**	**ug/L**	**14**
4-Bromophenyl phenyl ether	ND	100	ug/L	9.9
Butyl benzyl phthalate	ND	100	ug/L	14
Carbazole	ND	100	ug/L	7.9
4-Chloroaniline	ND	100	ug/L	9.5
4-Chloro-3-methylphenol	ND	100	ug/L	50
2-Chloronaphthalene	ND	100	ug/L	7.6
2-Chlorophenol	ND	100	ug/L	6.7
4-Chlorophenyl phenyl ether	ND	100	ug/L	8.9
Chrysene	ND	100	ug/L	8.9
Dibenz(a,h)anthracene	ND	100	ug/L	20
Dibenzofuran	ND	100	ug/L	5.8
Di-n-butyl phthalate	ND	100	ug/L	14
1,2-Dichlorobenzene	ND	100	ug/L	5.8
1,3-Dichlorobenzene	ND	100	ug/L	6.9
1,4-Dichlorobenzene	ND	100	ug/L	7.4
3,3'-Dichlorobenzidine	ND	500	ug/L	20
2,4-Dichlorophenol	ND	100	ug/L	20
Diethyl phthalate	ND	100	ug/L	11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	100	ug/L	11
Dimethyl phthalate	ND	100	ug/L	7.7
1,3-Dinitrobenzene	ND	100	ug/L	96
4,6-Dinitro-2-methylphenol	ND	500	ug/L	50
2,4-Dinitrophenol	ND	500	ug/L	130
2,4-Dinitrotoluene	ND	100	ug/L	20
2,6-Dinitrotoluene	ND	100	ug/L	20
Di-n-octyl phthalate	ND	100	ug/L	20
Diphenylamine	ND	100	ug/L	33
1,2-Diphenylhydrazine	ND	100	ug/L	8.9
Fluoranthene	ND	100	ug/L	10
Fluorene	ND	100	ug/L	6.8
Hexachlorobenzene	ND	100	ug/L	7.6
Hexachlorobutadiene	ND	100	ug/L	8.2
Hexachlorocyclopentadiene	ND	500	ug/L	50
Hexachloroethane	ND	100	ug/L	6.6
Indeno(1,2,3-cd)pyrene	ND	100	ug/L	8.7
Isophorone	ND	100	ug/L	50
2-Methylnaphthalene	ND	100	ug/L	7.2
2-Methylphenol	ND	100	ug/L	9.4
3-Methylphenol & 4-Methylphenol	ND	100	ug/L	15
Naphthalene	ND	100	ug/L	7.1
2-Nitroaniline	ND	500	ug/L	20
3-Nitroaniline	ND	500	ug/L	20
4-Nitroaniline	ND	500	ug/L	50
Nitrobenzene	ND	100	ug/L	20
2-Nitrophenol	ND	100	ug/L	50
4-Nitrophenol	ND	500	ug/L	130
N-Nitrosodimethylamine	ND	100	ug/L	7.0
N-Nitrosodiphenylamine	ND	100	ug/L	8.7
N-Nitrosodi-n-propylamine	ND	100	ug/L	50
Pentachlorophenol	ND	500	ug/L	50
Phenanthrene	ND	100	ug/L	7.0
Phenol	ND	100	ug/L	7.6
2,2'-oxybis(1-Chloropropane)	ND	100	ug/L	5.2
Pyrene	ND	100	ug/L	9.0
Pyridine	ND	200	ug/L	9.7
1,2,4-Trichlorobenzene	ND	100	ug/L	7.4

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	100	ug/L	50
2,4,6-Trichloro-phenol	ND	100	ug/L	50
Pentachloronitrobenzene	ND	500	ug/L	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	59	(49 - 109)
Nitrobenzene-d5	68	(57 - 120)
2-Fluorobiphenyl	79	(56 - 118)
2,4,6-Tribromophenol	35 *	(55 - 134)
Terphenyl-d14	92	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #: H6D030246-004 **Work Order #:** H2H381AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	6.5149	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Report Date: 19-Apr-2006 13:55

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Lab Smp Id: H2H381AA Client Smp ID: G-2902-R1-CAUSTIC F
Inj Date : 18-APR-2006 18:25
Operator : 60841 Inst ID: md.i
Smp Info : H2H381AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	100.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	71595	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	218971	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	157755	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	276577	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	283169	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	275616	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	171449	34.2431	342
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	268677	44.4867	445
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	168949	34.2281	342
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	410467	39.4680	395
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	45920	26.1841	262(R)
$ 12 Terphenyl-d14	244	11.210	11.210	(0.934)	630375	45.7690	458
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	2551	0.82895	~~8.29~~
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	42055	4.07723	40.8

KRH 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Report Date: 19-Apr-2006 13:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
84 Benzidine	184	11.204	11.016	(1.129)	7160	0.63163	~~6.32~~

KEM 4/19/06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Report Date: 19-Apr-2006 13:55

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h381aa.d
Lab Smp Id: H2H381AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2902-R1-CAUSTIC F
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	71595	15.62
2 Naphthalene-d8	196946	98473	393892	218971	11.18
3 Acenaphthene-d10	140395	70198	280790	157755	12.37
4 Phenanthrene-d10	245474	122737	490948	276577	12.67
5 Chrysene-d12	253631	126816	507262	283169	11.65
6 Perylene-d12	225613	112806	451226	275616	22.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Report Date: 19-Apr-2006 13:55

STL Knoxville

RECOVERY REPORT

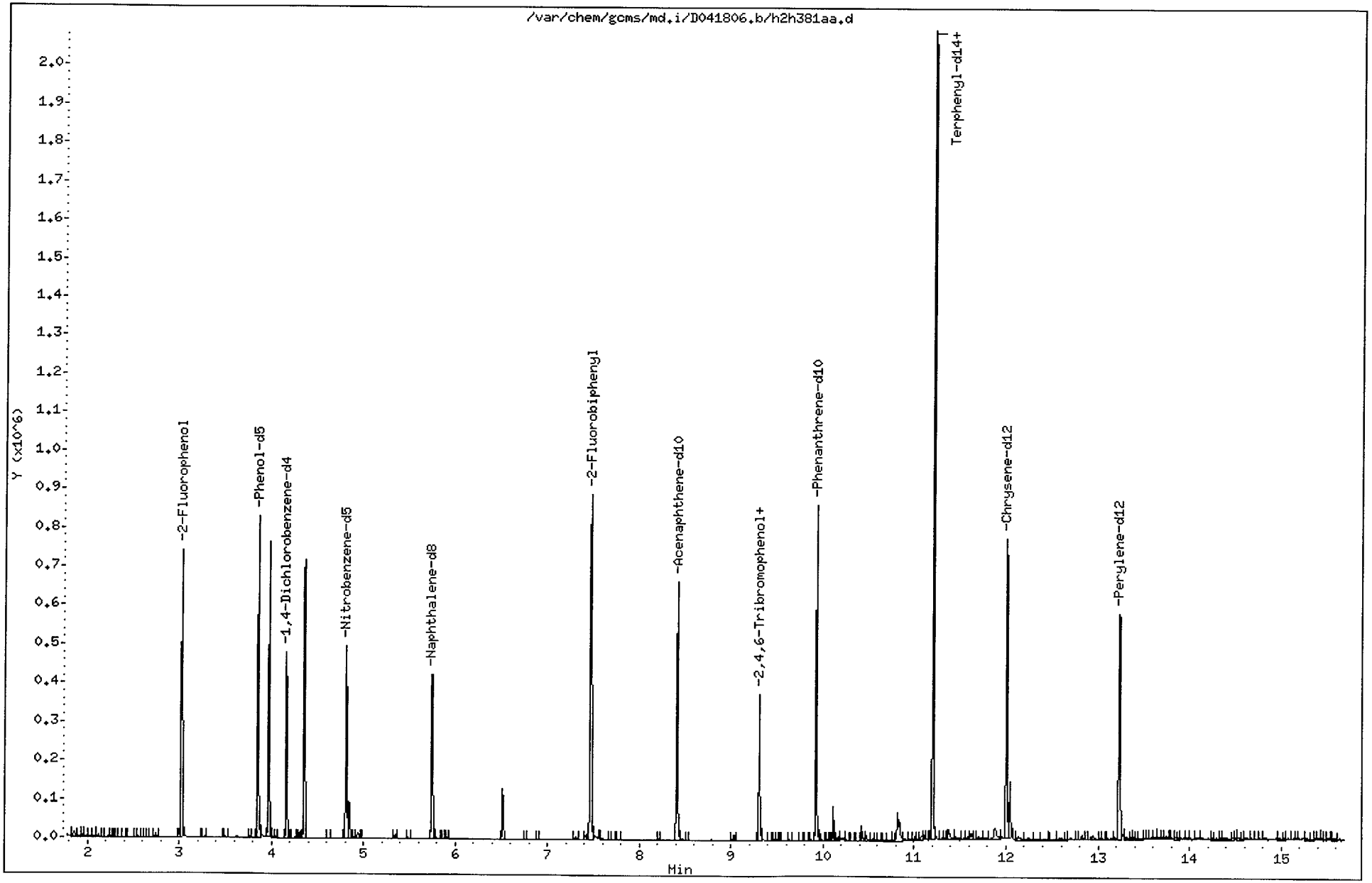
Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H381AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2902-R1-CAUSTIC F
Operator: 60841
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	750	342	45.66	36-98
$ 8 Phenol-d5	750	445	59.32	49-109
$ 9 Nitrobenzene-d5	500	342	68.46	57-120
$ 10 2-Fluorobiphenyl	500	395	78.94	56-118
$ 11 2,4,6-Tribromophen	750	262	34.91*	55-134
$ 12 Terphenyl-d14	500	458	91.54	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Date : 18-APR-2006 18:25
Client ID: G-2902-R1-CAUSTIC F
Sample Info: H2H381AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d

Date : 18-APR-2006 18:25

Client ID: G-2902-R1-CAUSTIC F

Instrument: md.i

Sample Info: H2H381AA,,0,,,,

Volume Injected (uL): 1.0

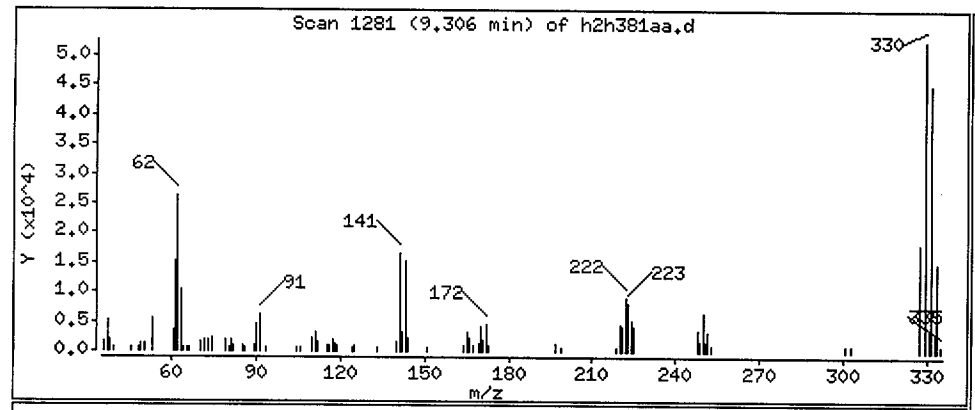
Operator: 60841

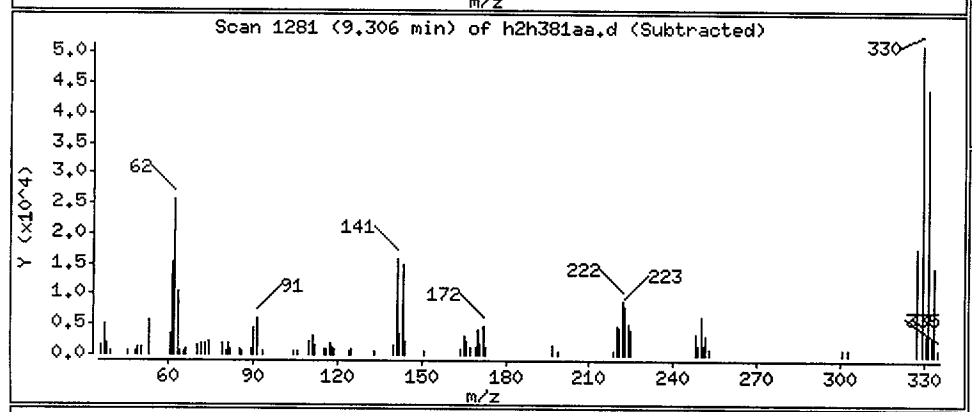
Column phase: ZB-5

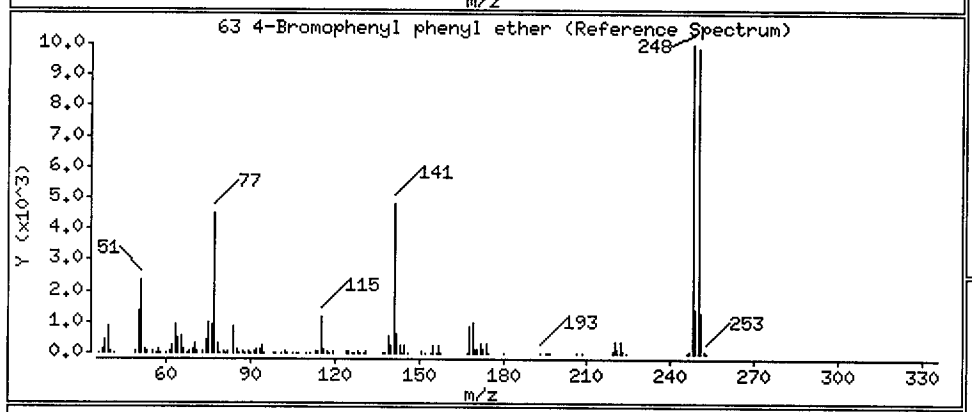
Column diameter: 0.25

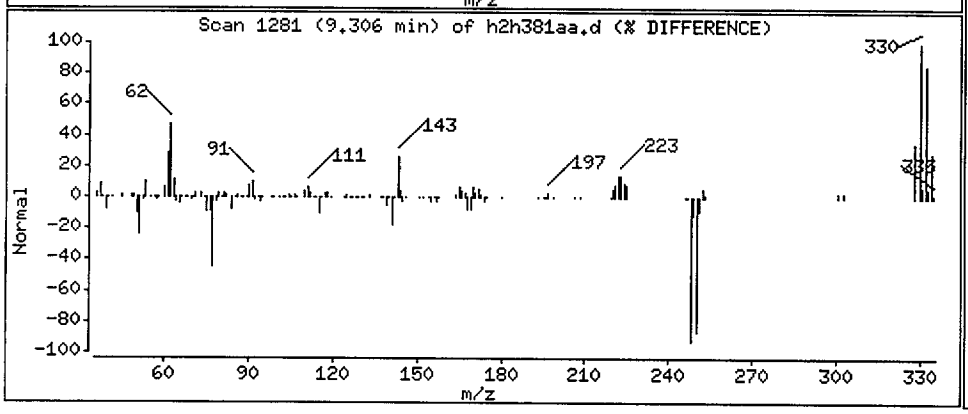
63 4-Bromophenyl phenyl ether

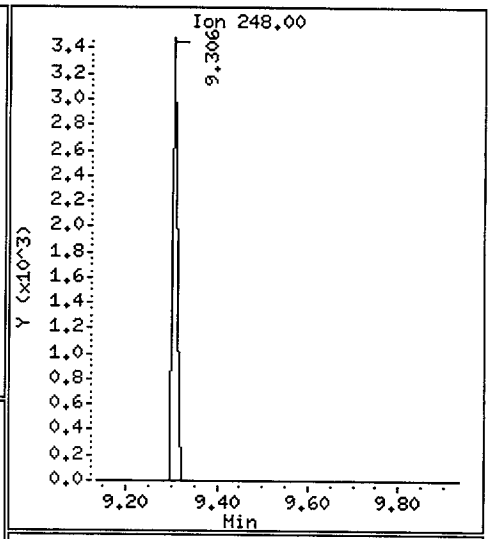
Concentration: 8.29 ug/L

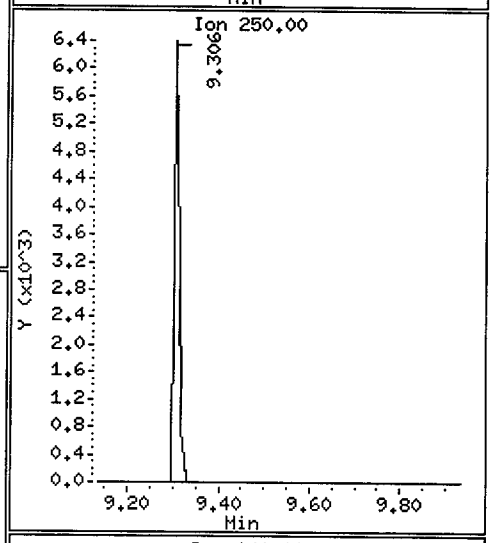


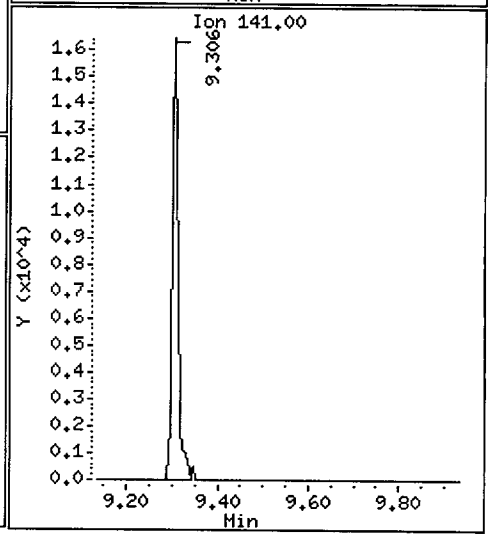












Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d

Date : 18-APR-2006 18:25

Client ID: G-2902-R1-CAUSTIC F

Instrument: md.i

Sample Info: H2H381AA,,0,,,,

Volume Injected (uL): 1.0

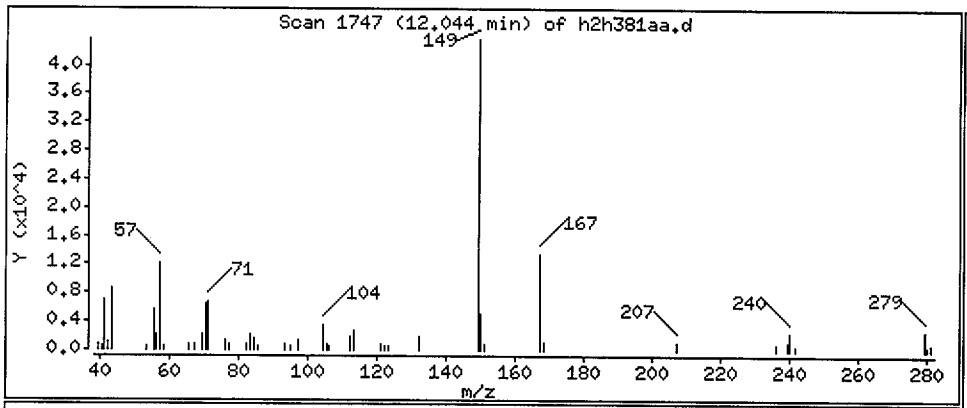
Operator: 60841

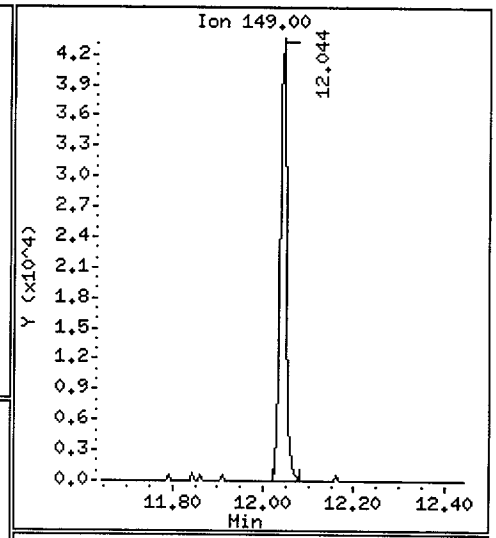
Column phase: ZB-5

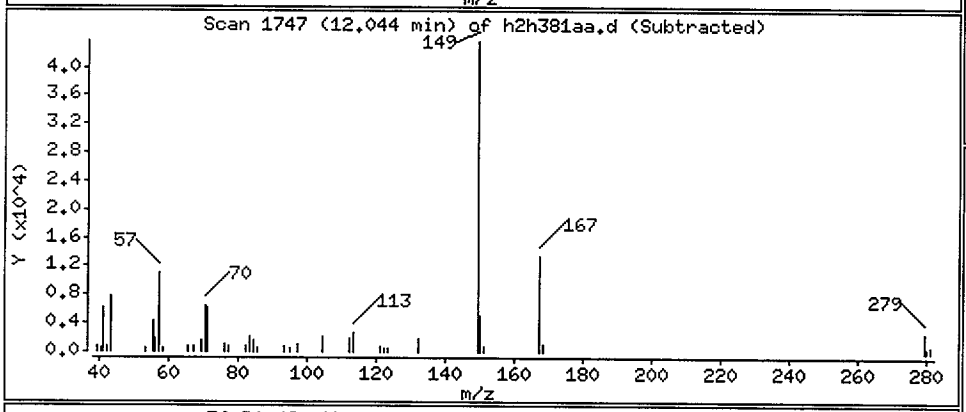
Column diameter: 0.25

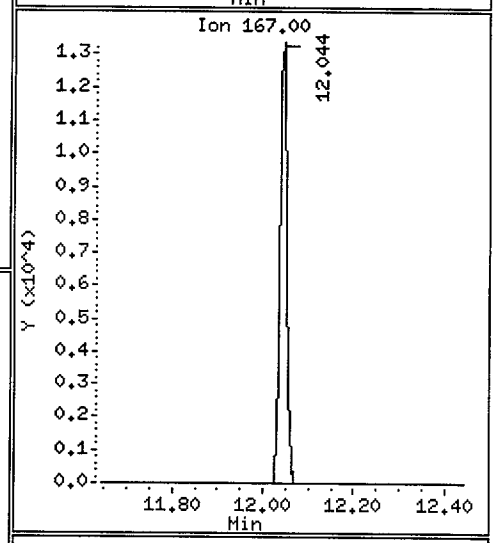
76 Bis(2-ethylhexyl) phthalate

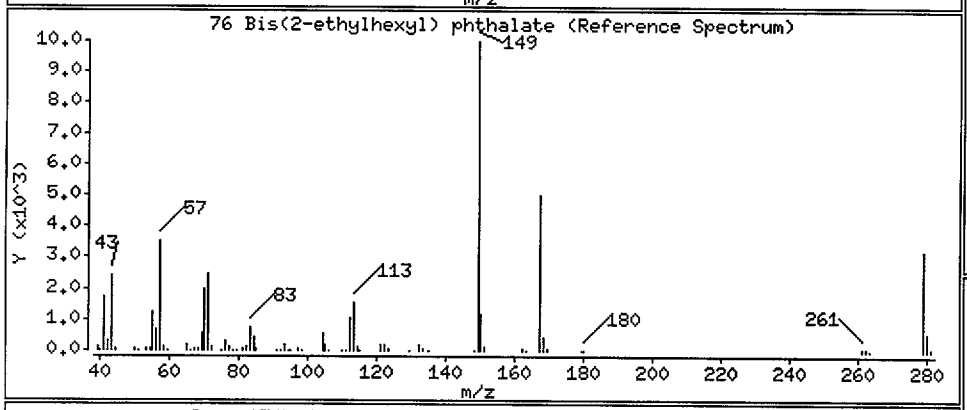
Concentration: 40.8 ug/L

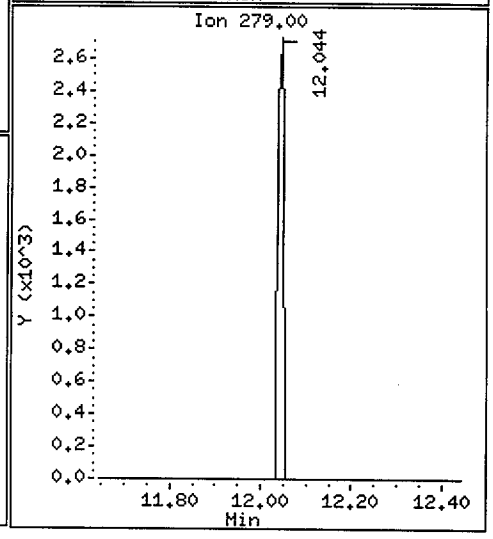


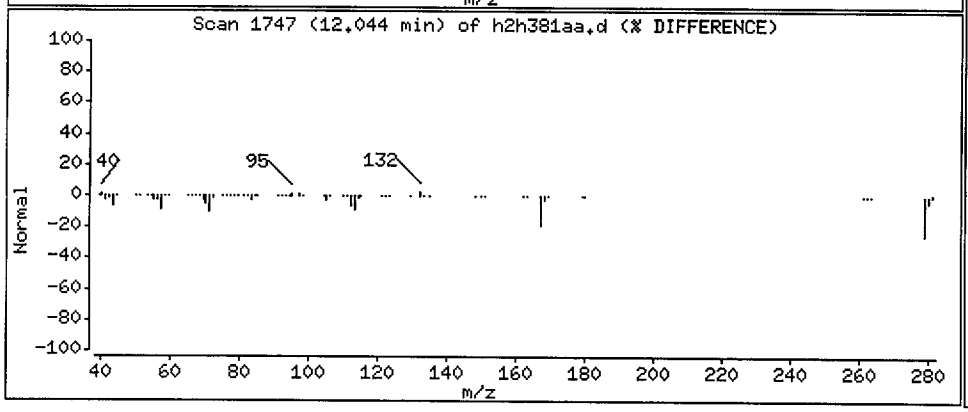












Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d

Date : 18-APR-2006 18:25

Client ID: G-2902-R1-CAUSTIC F

Instrument: md.i

Sample Info: H2H381AA,,0,,,,

Volume Injected (uL): 1.0

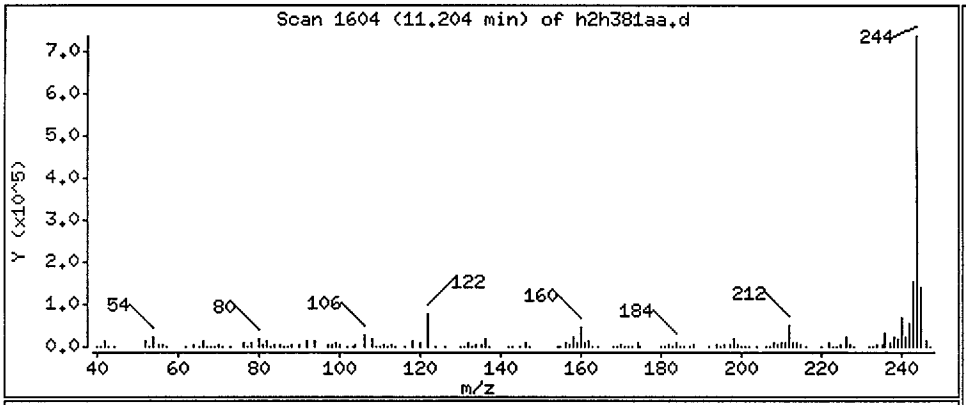
Operator: 60841

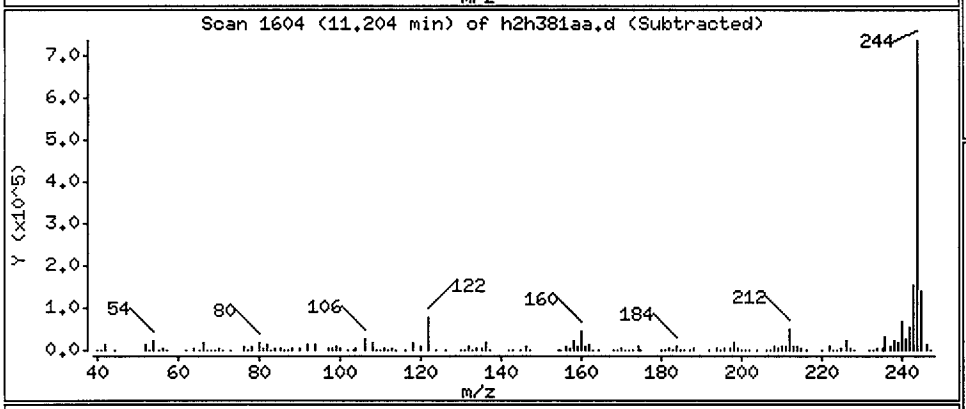
Column phase: ZB-5

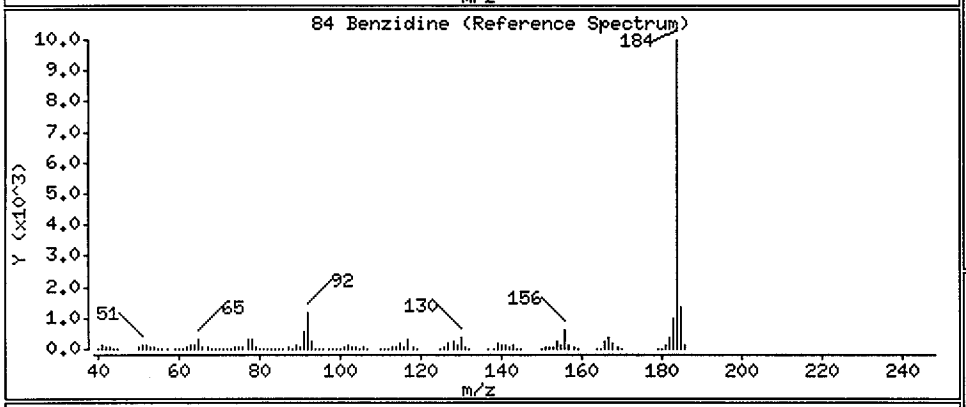
Column diameter: 0.25

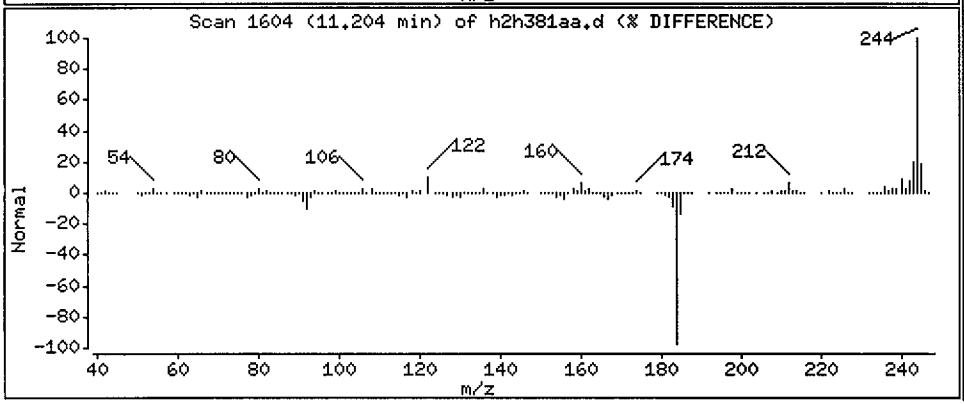
84 Benzidine

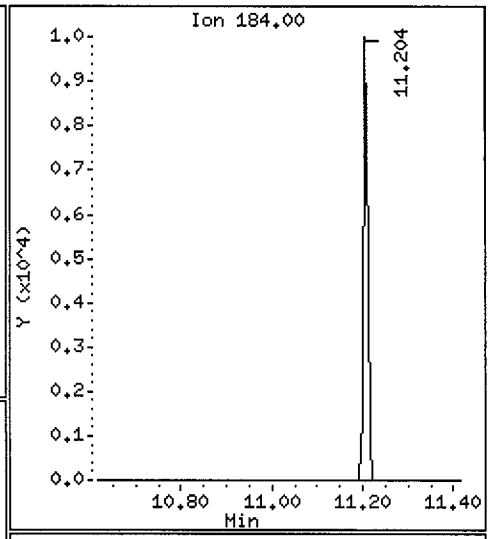
Concentration: 6.32 ug/L

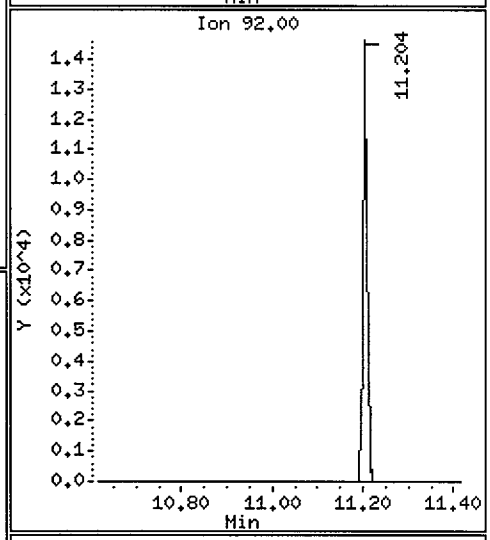


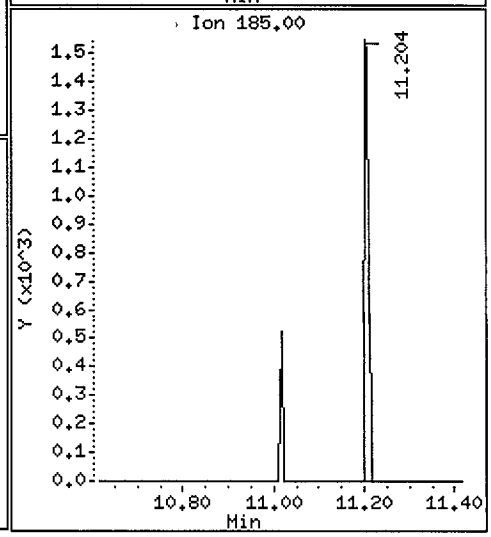












Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Report Date: 19-Apr-2006 15:38

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Lab Smp Id: H2H381AA Client Smp ID: G-2902-R1-CAUSTIC F
Inj Date : 18-APR-2006 18:25
Operator : 60841 Inst ID: md.i
Smp Info : H2H381AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	100.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	476774	20.000
* 2 Naphthalene-d8	5.751	421839	20.000

	CONCENTRATIONS				QUANT			
	RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
3-Chloro-6-fluoro-pyrazine						CAS #: 1000146-10-7		
	3.971	760595	31.9058925	319	27	NIST05.1	13697	1
1,4-Dichlorobenzene-D4						CAS #: 3855-82-1		
	4.359	717873	30.1137646	301	95	NIST05.1	23150	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d
Report Date: 19-Apr-2006 15:38

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	======	==========	==========	====	=======	=========	======
Benzene, 1,2,3-trichloro-					CAS #: 87-61-6		
6.515	131353	6.22763661	62.3	22	NIST05.1	43385	2

Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d

Date : 18-APR-2006 18:25

Client ID: G-2902-R1-CAUSTIC F

Instrument: md.i

Sample Info: H2H381AA,,0,,,,

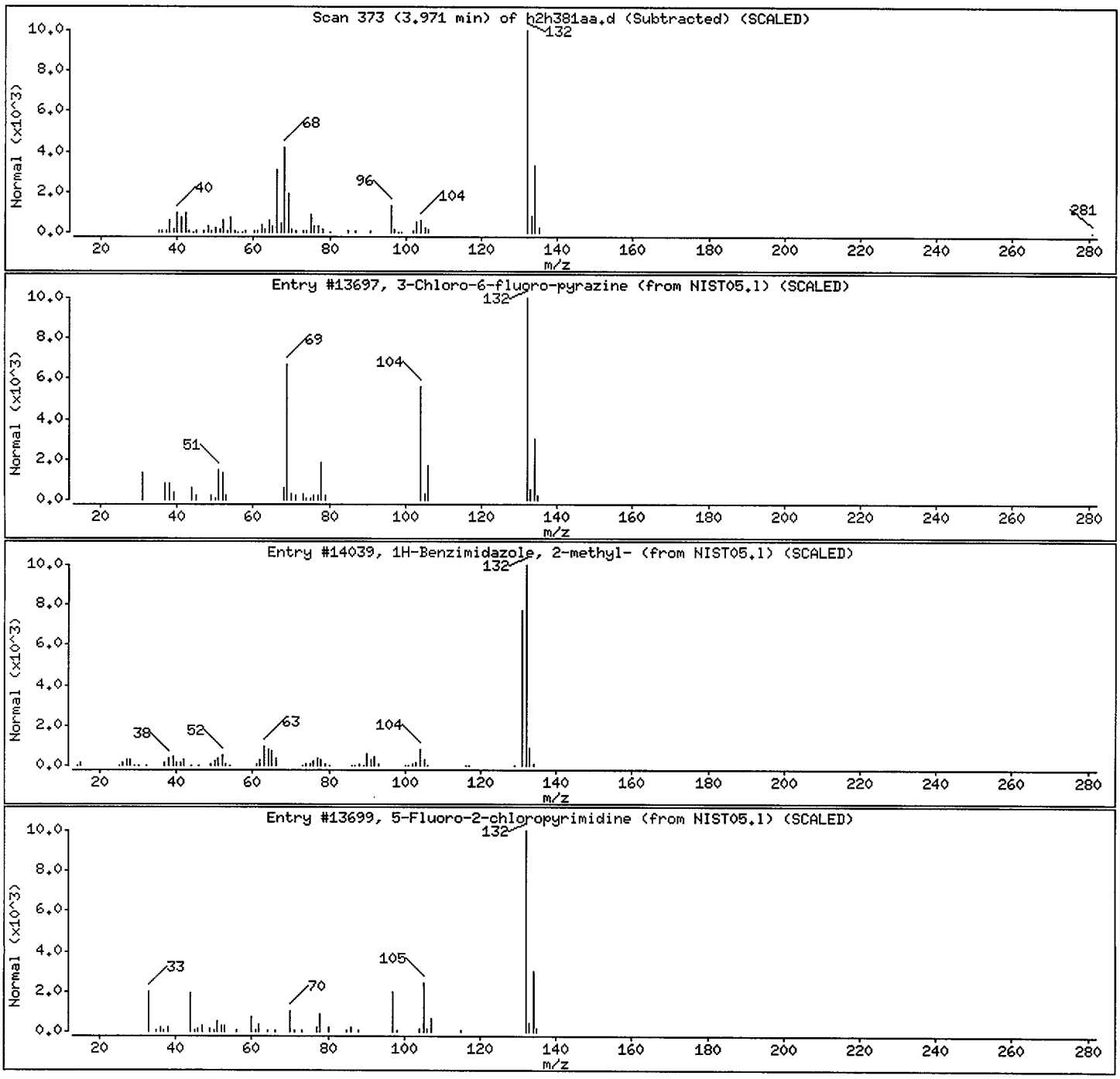
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Chloro-6-fluoro-pyrazine	1000146-10-7	NIST05.1	13697	27	C4H2ClFN2	132
1H-Benzimidazole, 2-methyl-	615-15-6	NIST05.1	14039	22	C8H8N2	132
5-Fluoro-2-chloropyrimidine	62802-42-0	NIST05.1	13699	16	C4H2ClFN2	132



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Date : 18-APR-2006 18:25

Client ID: G-2902-R1-CAUSTIC F

Instrument: md.i

Sample Info: H2H381AA,,0,,,,

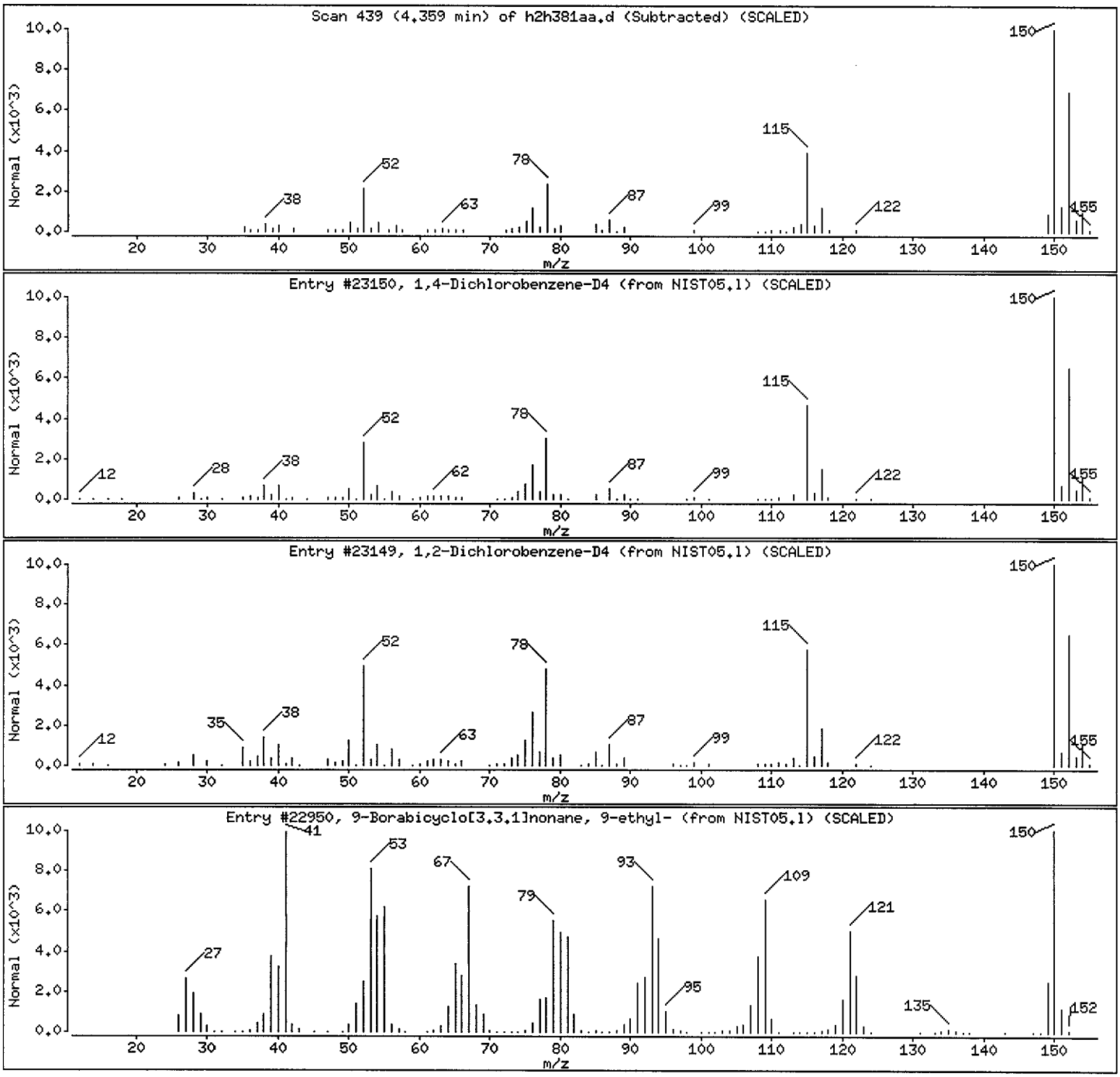
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.l	23150	95	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.l	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.l	22950	38	C10H19B	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h381aa.d

Date : 18-APR-2006 18:25

Client ID: G-2902-R1-CAUSTIC F

Instrument: md.i

Sample Info: H2H381AA,,0,,,,

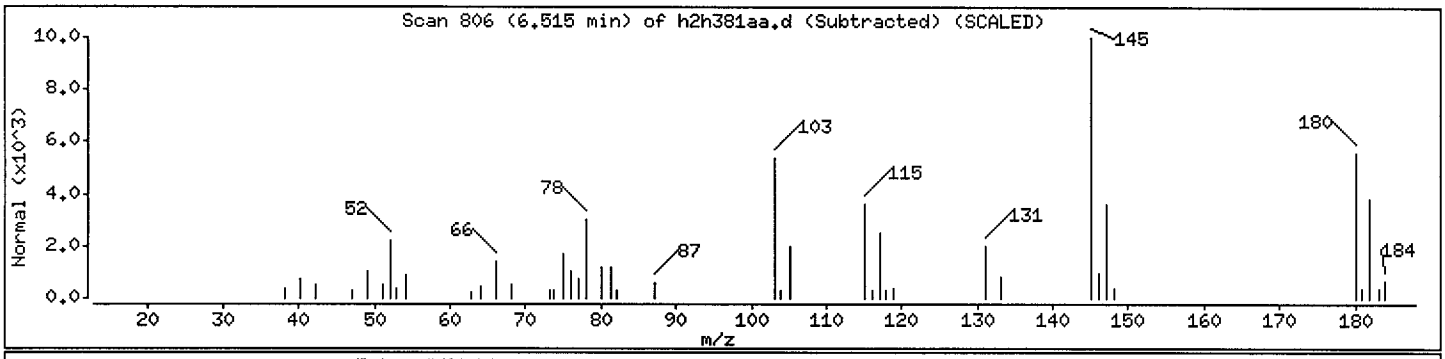
Volume Injected (uL): 1.0

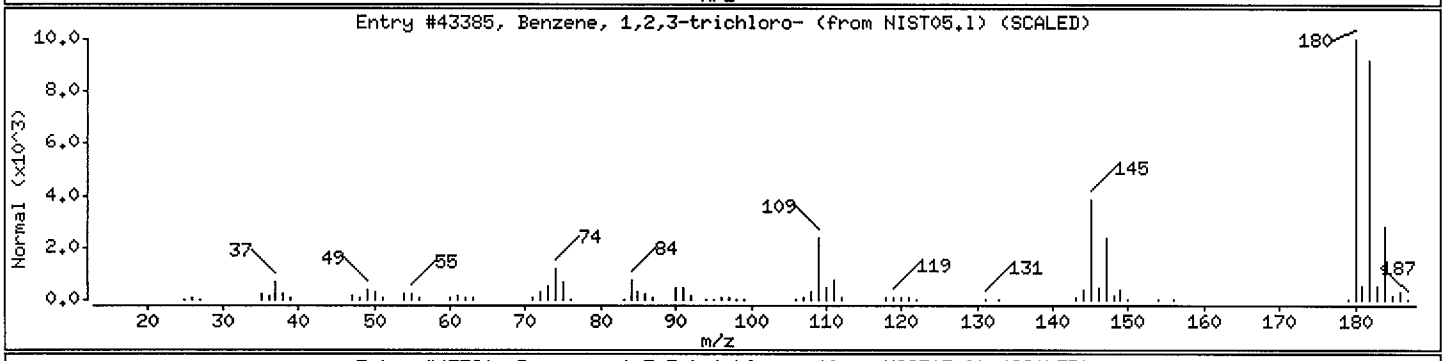
Operator: 60841

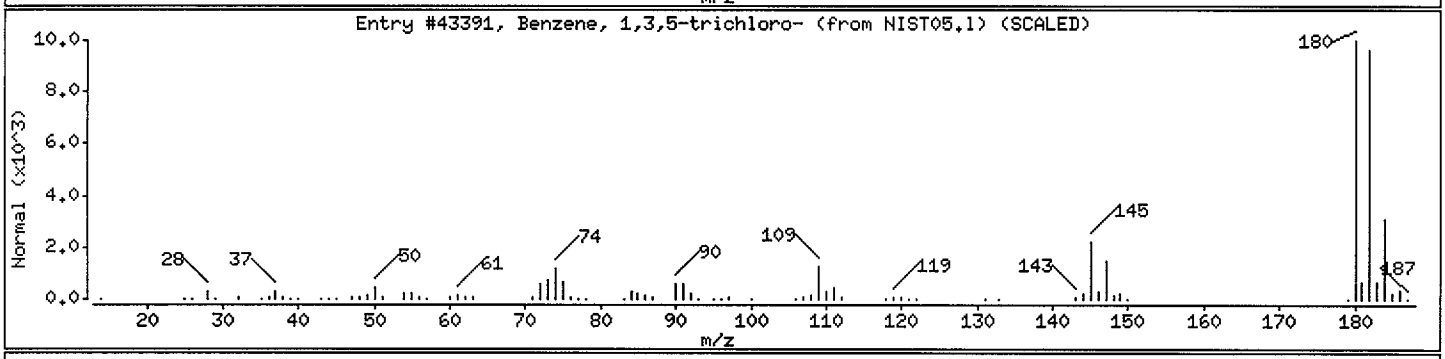
Column phase: ZB-5

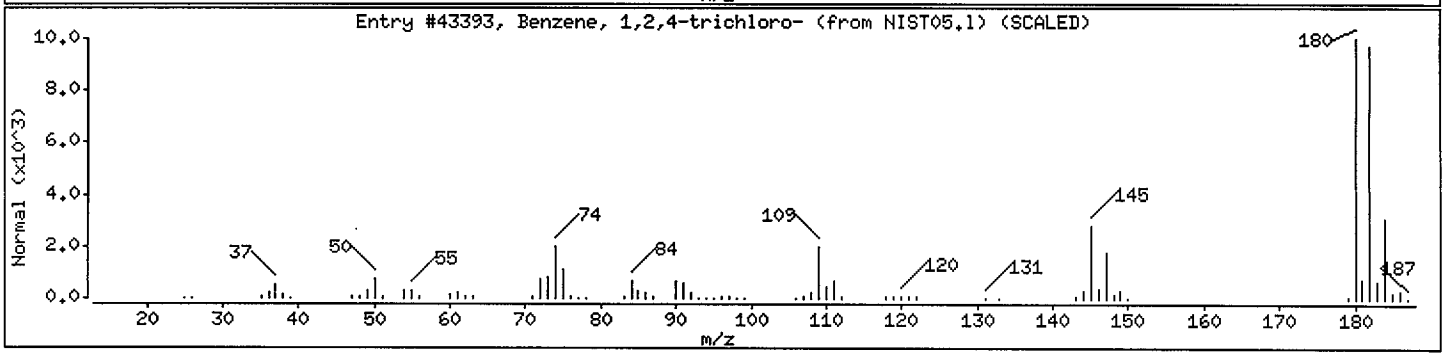
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trichloro-	87-61-6	NIST05.1	43385	22	C6H3Cl3	180
Benzene, 1,3,5-trichloro-	108-70-3	NIST05.1	43391	22	C6H3Cl3	180
Benzene, 1,2,4-trichloro-	120-82-1	NIST05.1	43393	22	C6H3Cl3	180









STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(36 - 98)
Phenol-d5	53	(49 - 109)
Nitrobenzene-d5	59	(57 - 120)
2-Fluorobiphenyl	72	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	83	(33 - 142)

STL Knoxville - ACS

G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-005 **Work Order #:** H2H391AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		13 NJ	M	3.0778	ug/L
Methane, tribromo-	75-25-2	7.7 NJ	M	3.1306	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Report Date: 19-Apr-2006 13:55

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Lab Smp Id: H2H391AA Client Smp ID: G-2906-R1-MAKE-UP W
Inj Date : 18-APR-2006 19:36
Operator : 60841 Inst ID: md.i
Smp Info : H2H391AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	900.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	63531	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	206495	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	147992	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	261924	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	275550	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	271164	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	162160	36.4988	40.6
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	211653	39.4930	43.9
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	136726	29.3738	32.6
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	353684	36.2517	40.3
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	82933	49.9345	55.5
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	556521	41.5240	46.1
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	4668	1.60173	~~1.78~~
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	5413	0.53933	0.599

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Report Date: 19-Apr-2006 13:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
84 Benzidine	184	11.204	11.016	(1.129)	6416	0.59766	~~0.664~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Report Date: 19-Apr-2006 13:55

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h391aa.d
Lab Smp Id: H2H391AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2906-R1-MAKE-UP W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	63531	2.60
2 Naphthalene-d8	196946	98473	393892	206495	4.85
3 Acenaphthene-d10	140395	70198	280790	147992	5.41
4 Phenanthrene-d10	245474	122737	490948	261924	6.70
5 Chrysene-d12	253631	126816	507262	275550	8.64
6 Perylene-d12	225613	112806	451226	271164	20.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Report Date: 19-Apr-2006 13:55

STL Knoxville

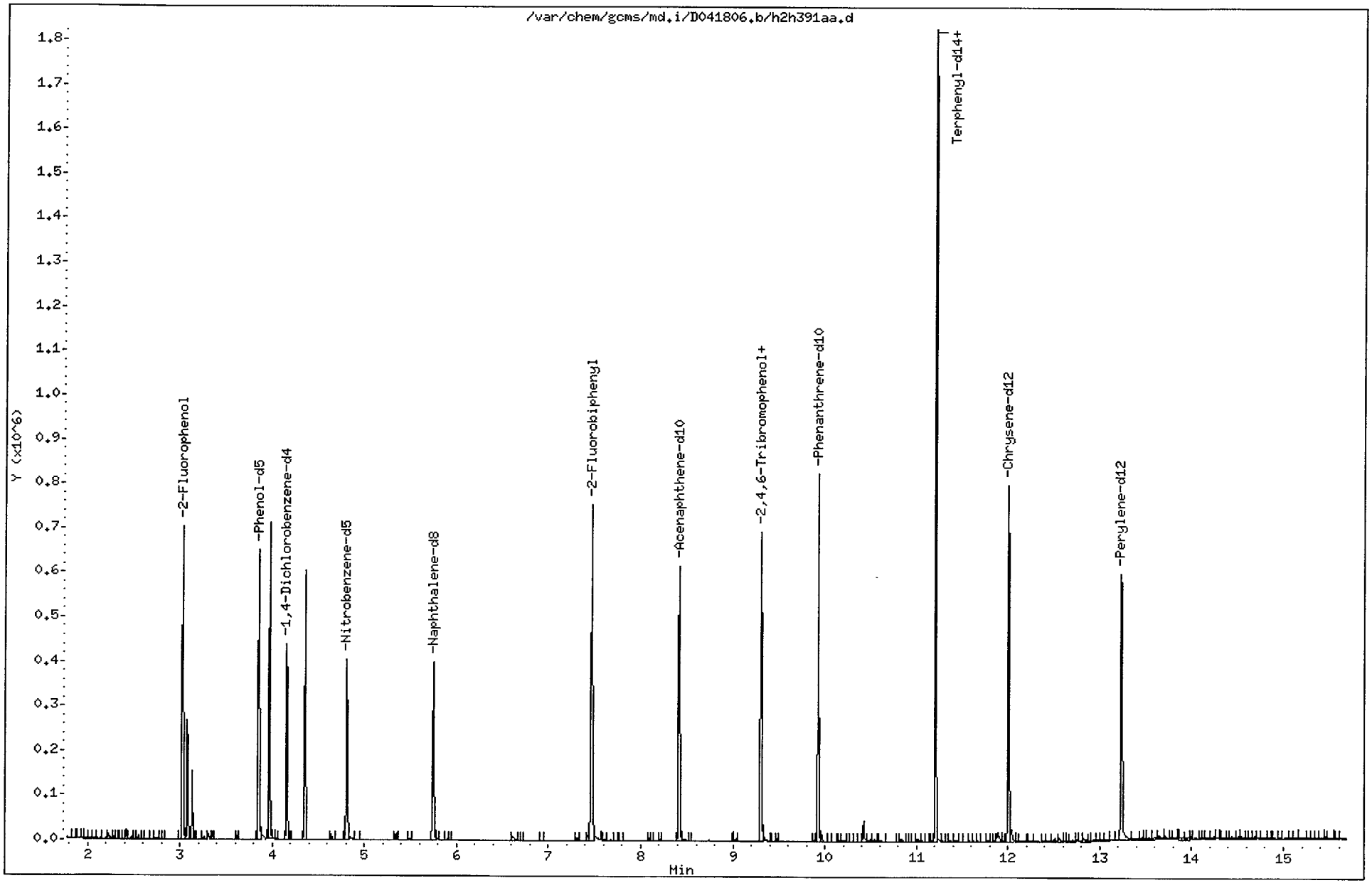
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H391AA
Client Smp ID: G-2906-R1-MAKE-UP W
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	83.3	40.6	48.67	36-98
$ 8 Phenol-d5	83.3	43.9	52.66	49-109
$ 9 Nitrobenzene-d5	55.6	32.6	58.75	57-120
$ 10 2-Fluorobiphenyl	55.6	40.3	72.50	56-118
$ 11 2,4,6-Tribromophen	83.3	55.5	66.58	55-134
$ 12 Terphenyl-d14	55.6	46.1	83.05	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Date : 18-APR-2006 19:36
Client ID: G-2906-R1-MAKE-UP W
Sample Info: H2H391AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

Volume Injected (uL): 1.0

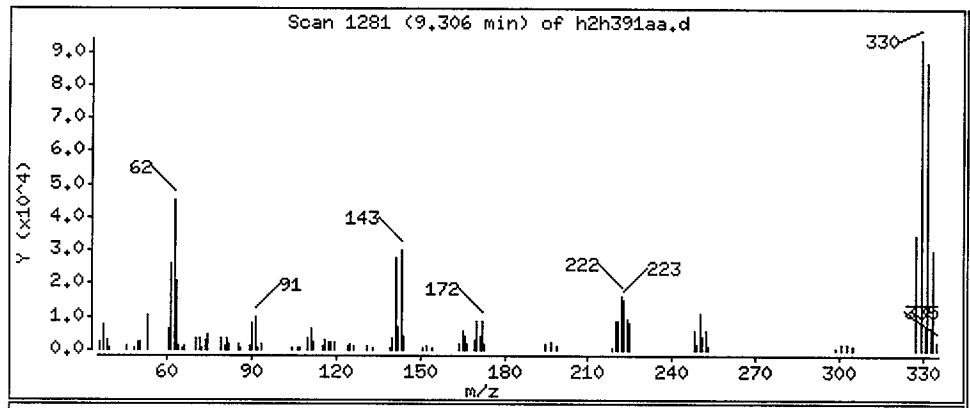
Operator: 60841

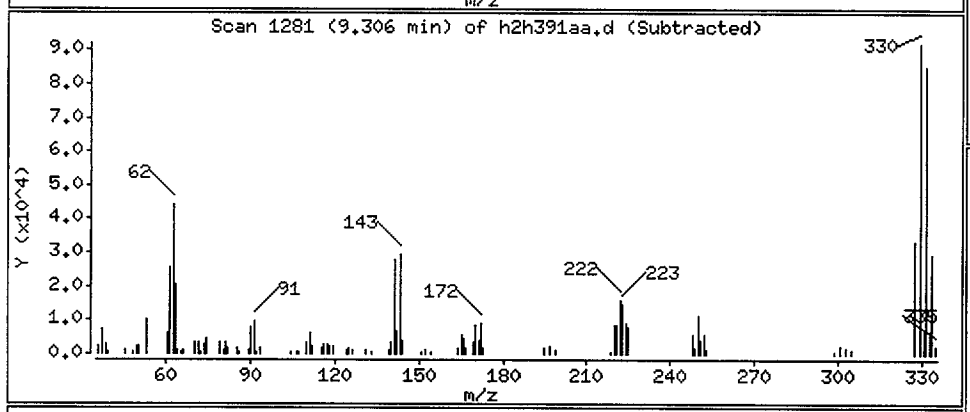
Column phase: ZB-5

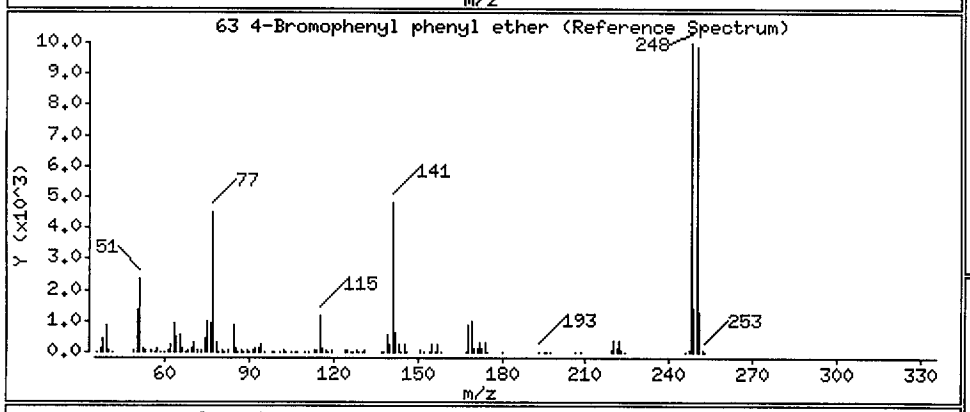
Column diameter: 0.25

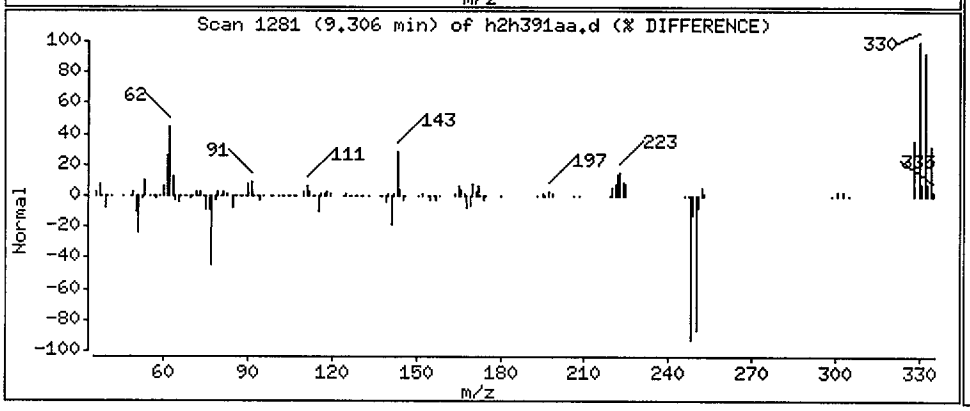
63 4-Bromophenyl phenyl ether

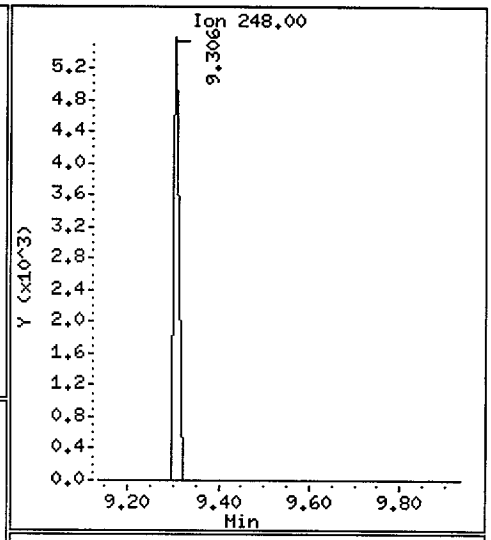
Concentration: 1.78 ug/L

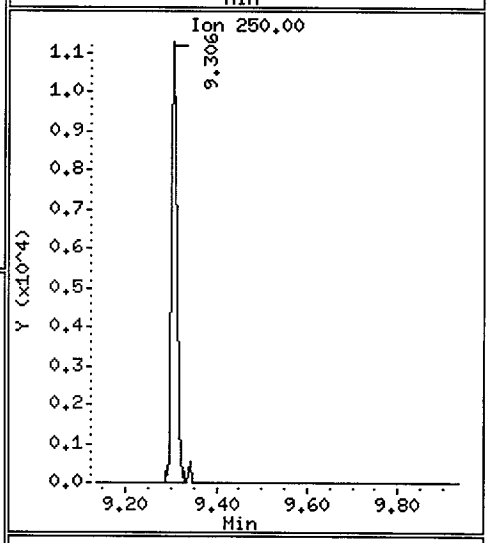


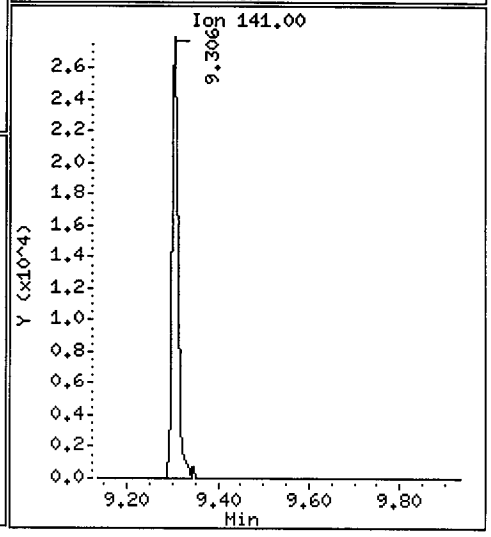












Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

Volume Injected (uL): 1.0

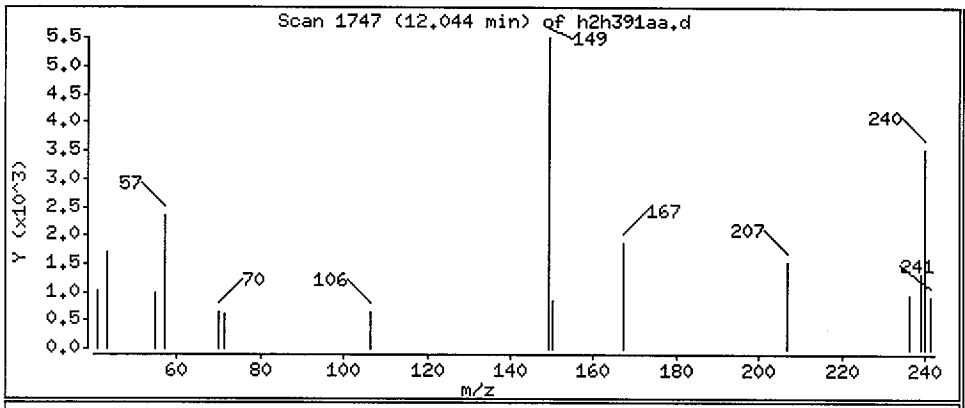
Operator: 60841

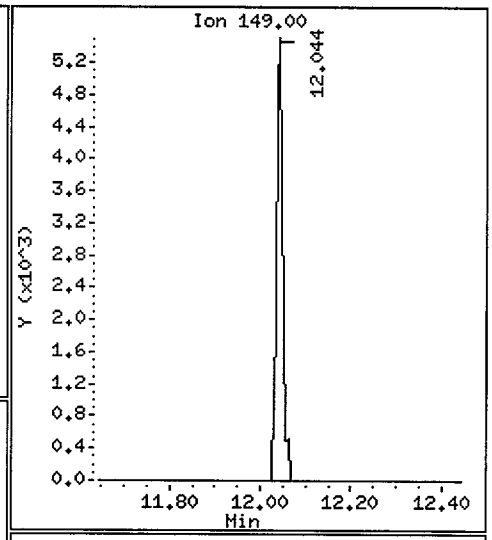
Column phase: ZB-5

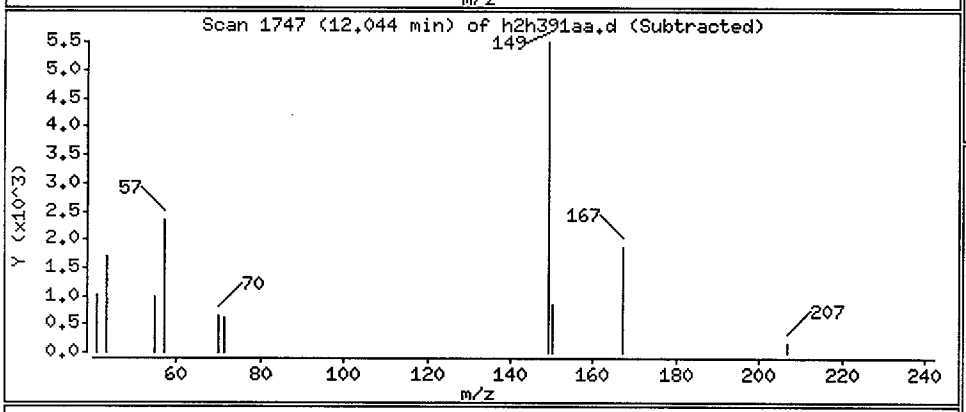
Column diameter: 0.25

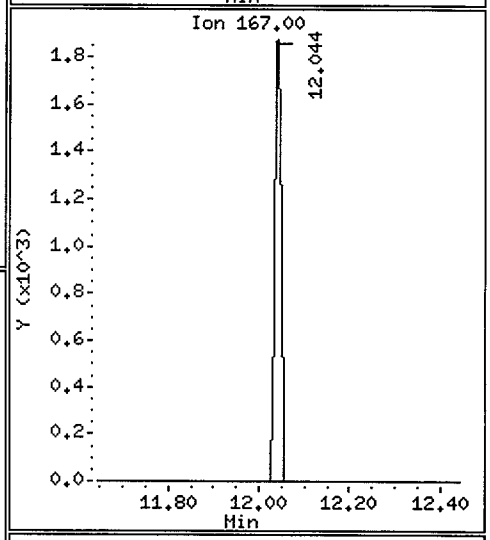
76 Bis(2-ethylhexyl) phthalate

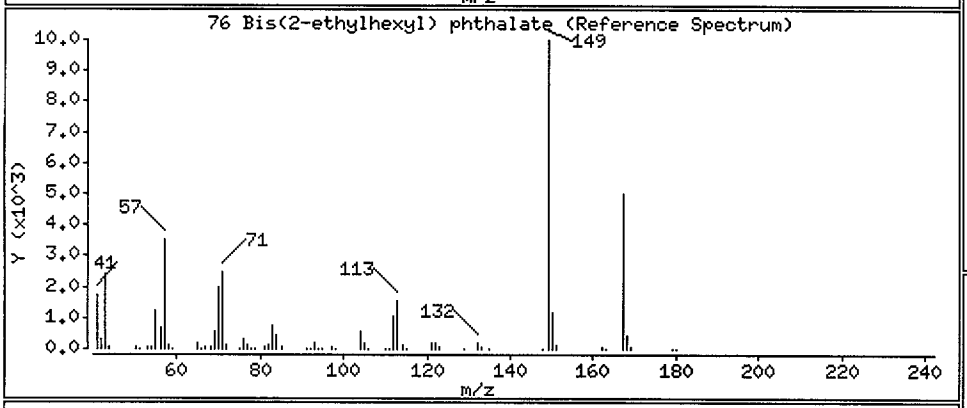
Concentration: 0.599 ug/L

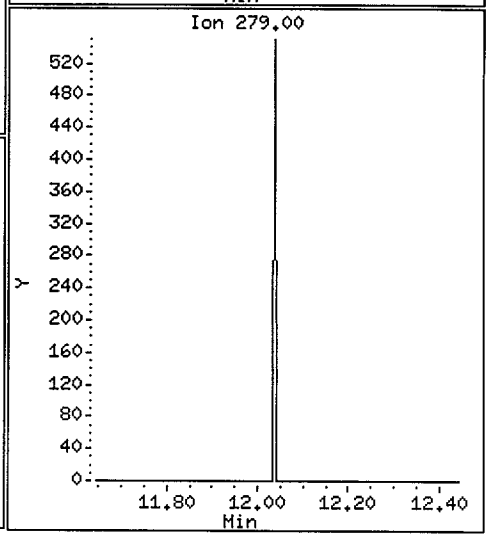


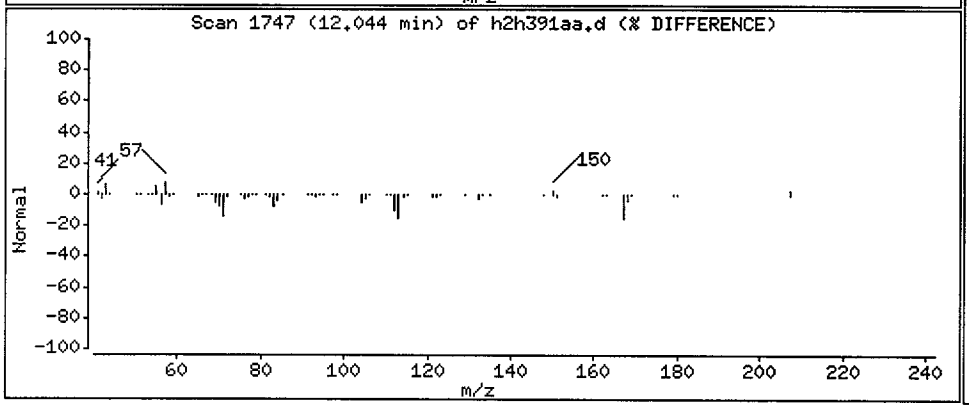












Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

Volume Injected (uL): 1.0

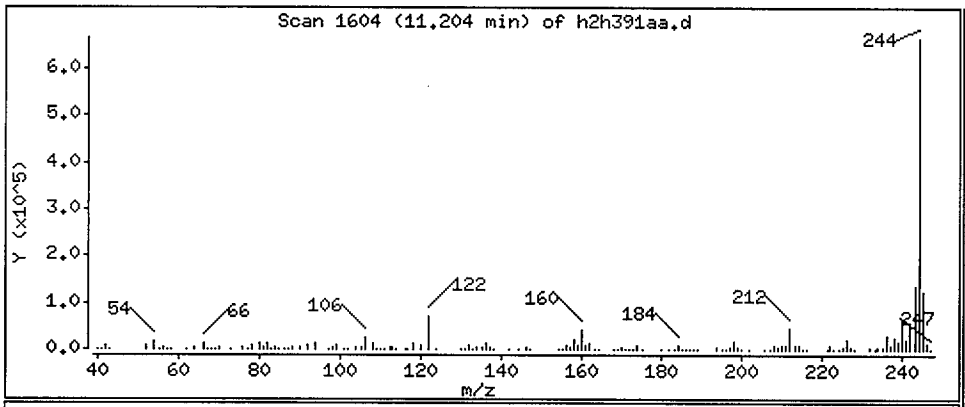
Operator: 60841

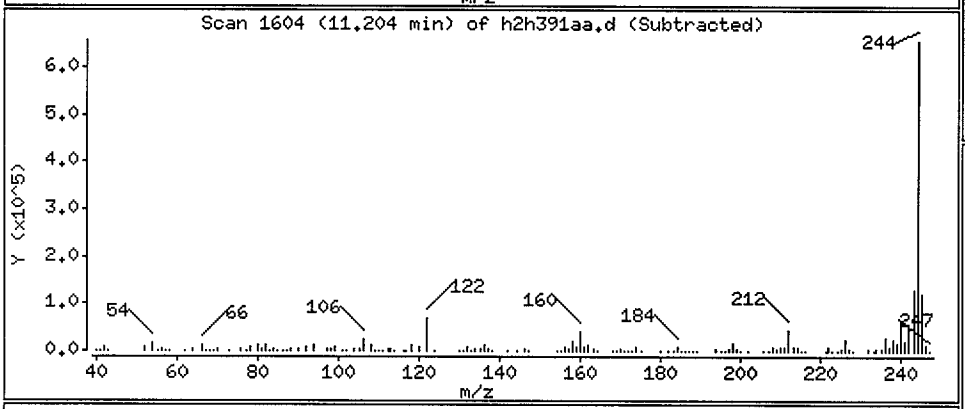
Column phase: ZB-5

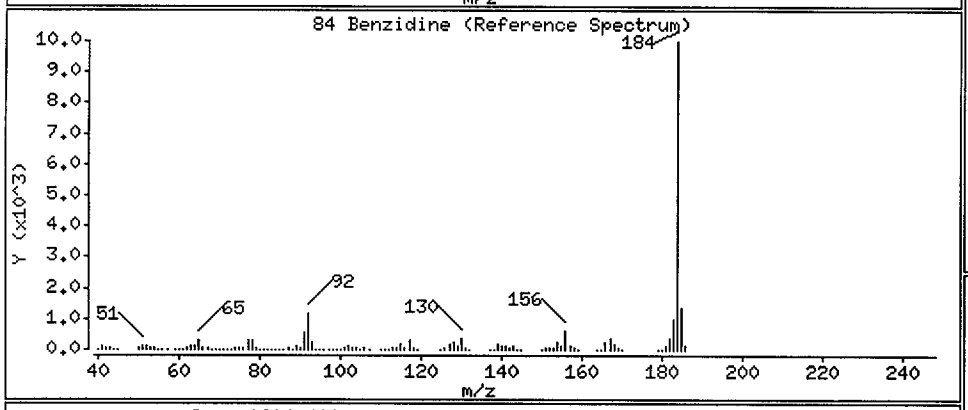
Column diameter: 0.25

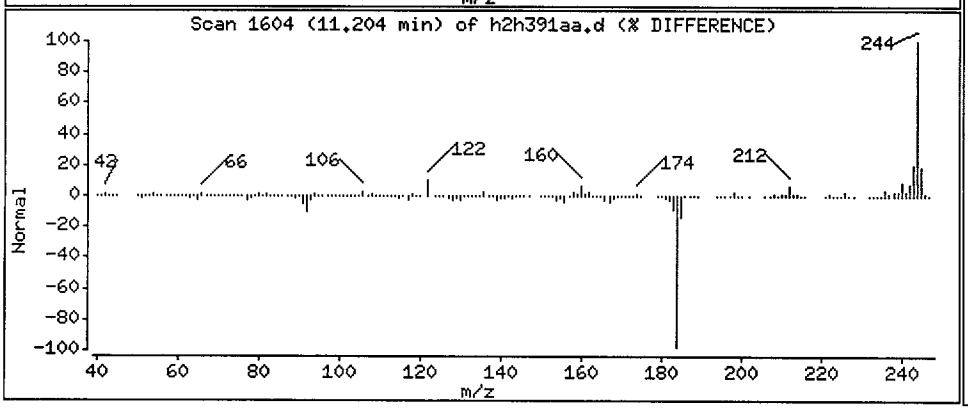
84 Benzidine

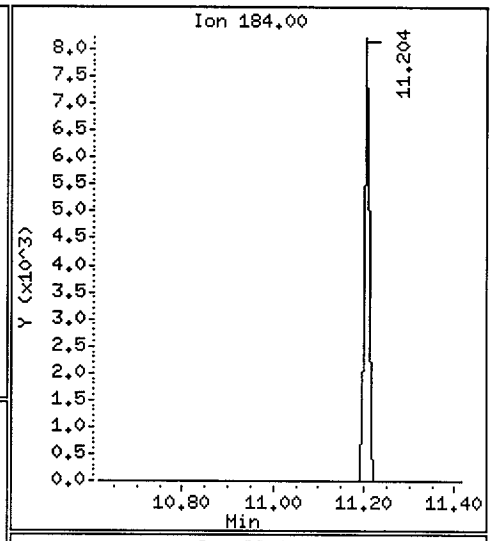
Concentration: 0.664 ug/L

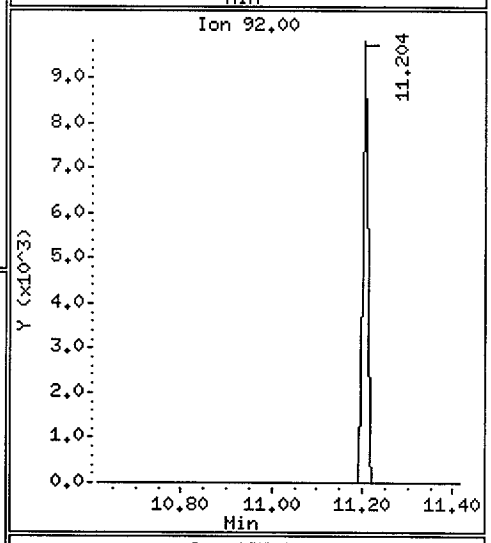


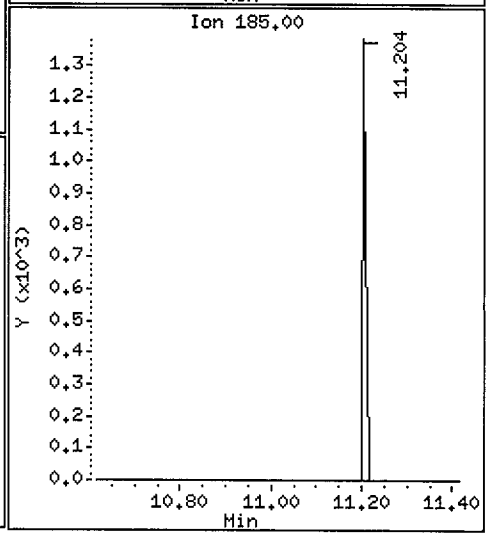












Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Report Date: 19-Apr-2006 15:40

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Lab Smp Id: H2H391AA Client Smp ID: G-2906-R1-MAKE-UP W
Inj Date : 18-APR-2006 19:36
Operator : 60841 Inst ID: md.i
Smp Info : H2H391AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	900.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	439172	20.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Butanamide				CAS #: 541-35-5			
3.078	265937	12.1108358	13.4	64	NIST05.1	1835	1
Methane, tribromo-				CAS #: 75-25-2			
3.131	152718	6.95481497	7.73	97	NIST05.1	92333	1
4-Chloro-6-fluoro pyrimidine				CAS #: 51422-01-6			
3.971	708392	32.2603445	35.8	27	NIST05.1	13701	1

S

Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d
Report Date: 19-Apr-2006 15:40

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	======	==========	==========	====	=======	=========	======
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	602832	27.4531163	30.5	95	NIST05.1	23150	1

S

Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

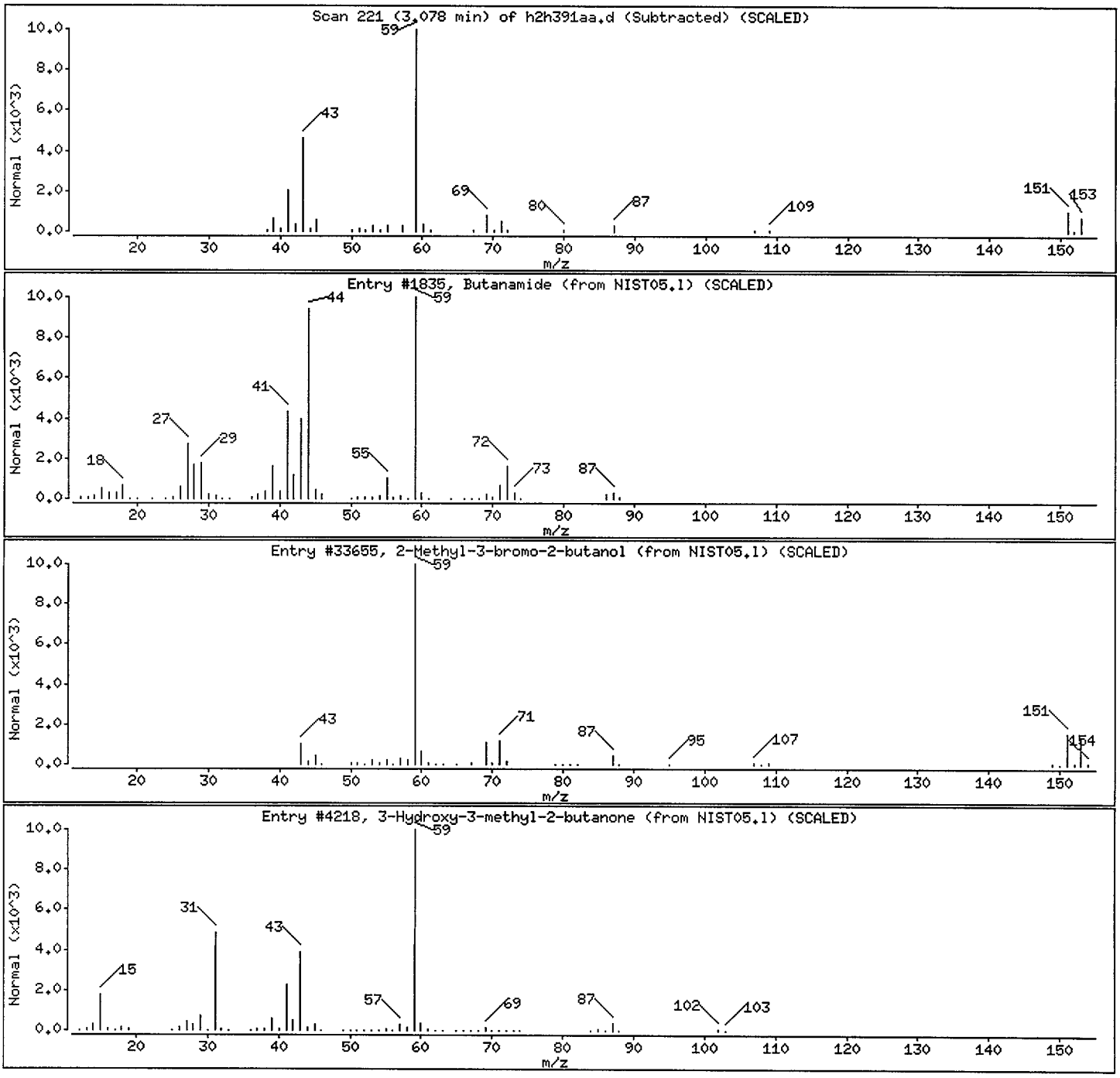
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanamide	541-35-5	NIST05.1	1835	64	C4H9NO	87
2-Methyl-3-bromo-2-butanol	2588-77-4	NIST05.1	33655	56	C5H11BrO	166
3-Hydroxy-3-methyl-2-butanone	115-22-0	NIST05.1	4218	45	C5H10O2	102



Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

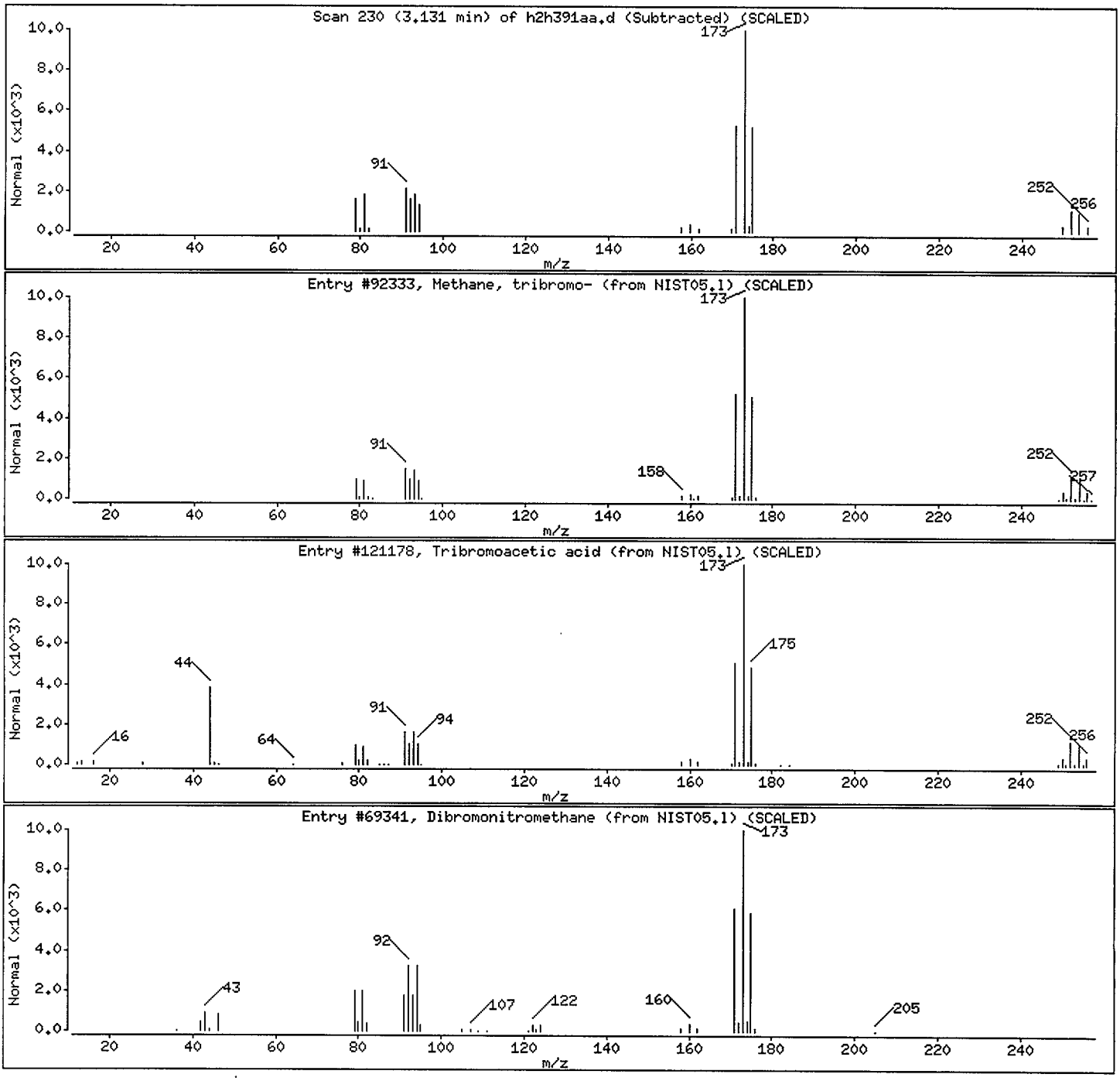
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methane, tribromo-	75-25-2	NIST05.1	92333	97	CHBr3	250
Tribromoacetic acid	75-96-7	NIST05.1	121178	91	C2HBr3O2	294
Dibromonitromethane	598-91-4	NIST05.1	69341	53	CHBr2NO2	217



Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

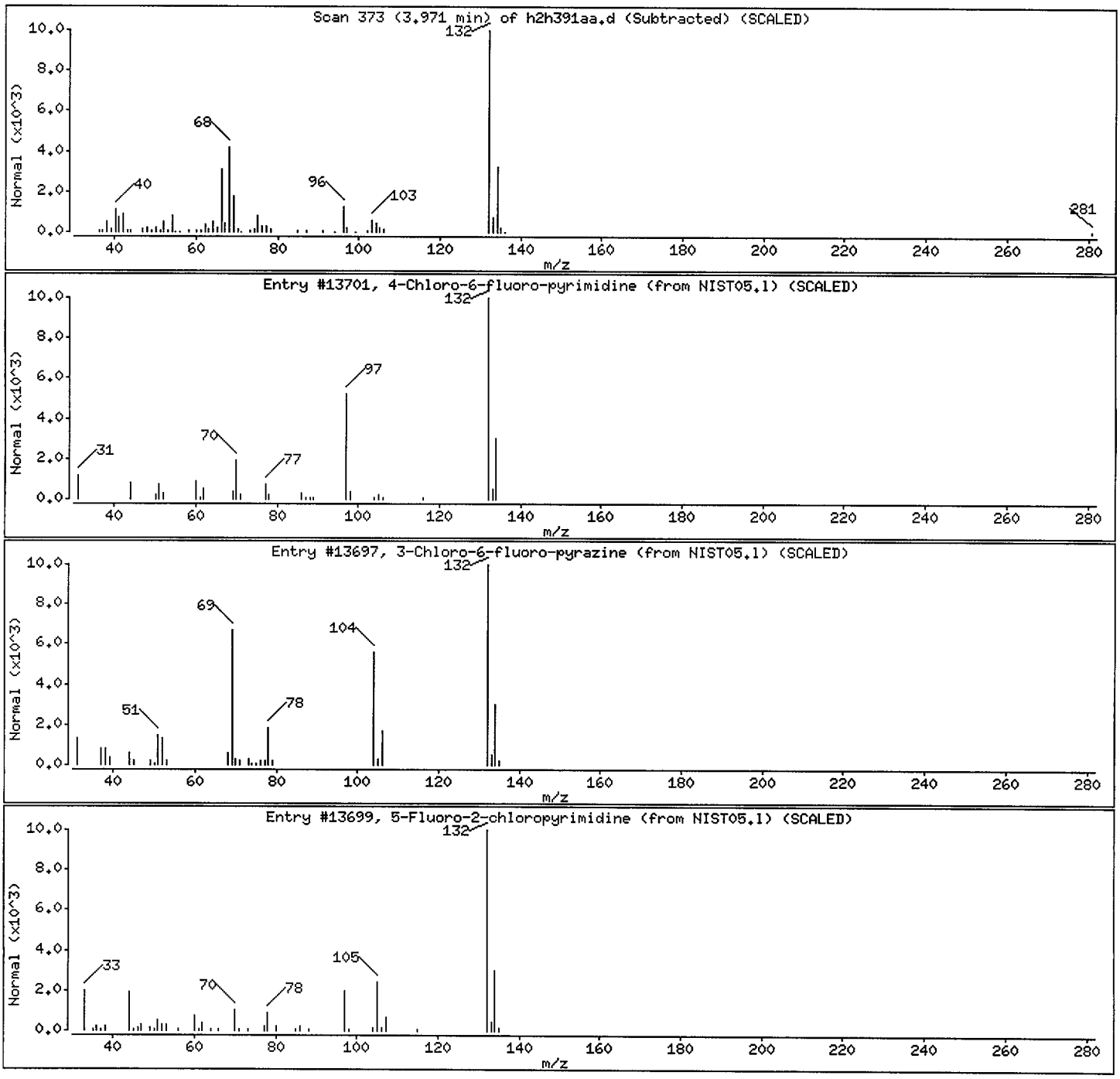
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-Chloro-6-fluoro-pyrimidine	51422-01-6	NIST05.1	13701	27	C4H2ClFN2	132
3-Chloro-6-fluoro-pyrazine	1000146-10-7	NIST05.1	13697	27	C4H2ClFN2	132
5-Fluoro-2-chloropyrimidine	62802-42-0	NIST05.1	13699	12	C4H2ClFN2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h391aa.d

Date : 18-APR-2006 19:36

Client ID: G-2906-R1-MAKE-UP W

Instrument: md.i

Sample Info: H2H391AA,,0,,,,

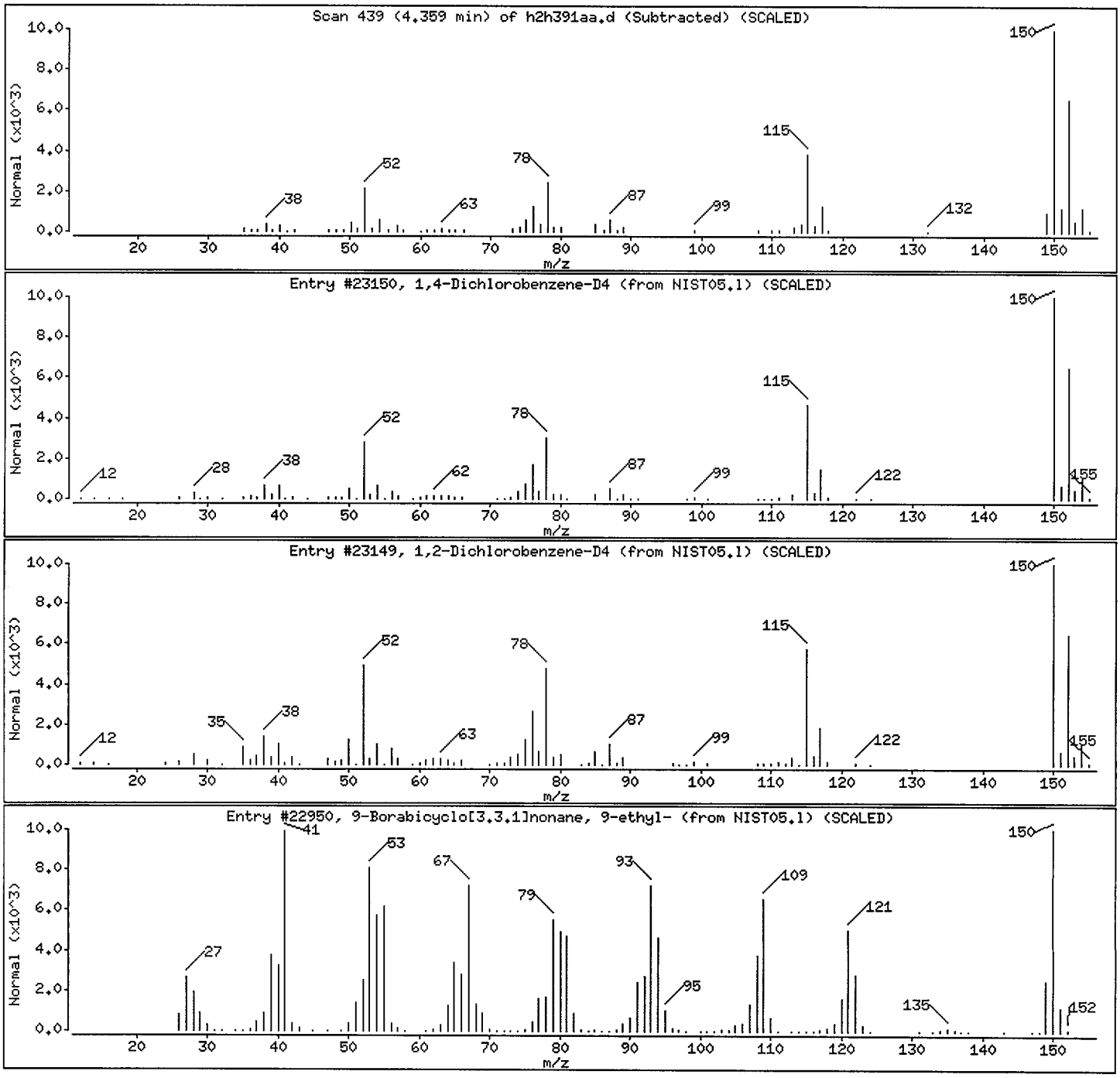
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	95	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	43	C10H19B	150



STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**560 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1200 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**23000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1700**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	1600	ug/kg	340
Dimethyl phthalate	ND	1600	ug/kg	120
1,3-Dinitrobenzene	ND	1600	ug/kg	
4,6-Dinitro-2-methylphenol	ND	8000	ug/kg	850
2,4-Dinitrophenol	ND	8000	ug/kg	800
2,4-Dinitrotoluene	ND	1600	ug/kg	340
2,6-Dinitrotoluene	ND	1600	ug/kg	340
Di-n-octyl phthalate	ND	1600	ug/kg	150
Diphenylamine	ND	1600	ug/kg	150
1,2-Diphenylhydrazine	ND	1600	ug/kg	120
Fluoranthene	**160 J**	**1600**	**ug/kg**	**130**
Fluorene	**710 J**	**1600**	**ug/kg**	**85**
Hexachlorobenzene	ND	1600	ug/kg	90
Hexachlorobutadiene	ND	1600	ug/kg	85
Hexachlorocyclopentadiene	ND	8000	ug/kg	850
Hexachloroethane	ND	1600	ug/kg	110
Indeno(1,2,3-cd)pyrene	ND	1600	ug/kg	90
Isophorone	ND	1600	ug/kg	340
2-Methylnaphthalene	**7600**	**1600**	**ug/kg**	**85**
2-Methylphenol	ND	1600	ug/kg	100
3-Methylphenol & 4-Methylphenol	**310 J**	**1600**	**ug/kg**	**220**
Naphthalene	**5900**	**1600**	**ug/kg**	**85**
2-Nitroaniline	ND	8000	ug/kg	160
3-Nitroaniline	ND	8000	ug/kg	95
4-Nitroaniline	ND	8000	ug/kg	340
Nitrobenzene	ND	1600	ug/kg	340
2-Nitrophenol	ND	1600	ug/kg	340
4-Nitrophenol	ND	8000	ug/kg	850
N-Nitrosodimethylamine	ND	1600	ug/kg	85
N-Nitrosodiphenylamine	ND	1600	ug/kg	120
N-Nitrosodi-n-propylamine	ND	1600	ug/kg	340
Pentachlorophenol	ND	8000	ug/kg	850
Phenanthrene	**1000 J**	**1600**	**ug/kg**	**95**
Phenol	**710 J**	**1600**	**ug/kg**	**85**
2,2'-oxybis(1-Chloropropane)	ND	1600	ug/kg	85
Pyrene	**250 J**	**1600**	**ug/kg**	**140**
Pyridine	ND	3300	ug/kg	85
1,2,4-Trichlorobenzene	**2000**	**1600**	**ug/kg**	**85**

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	41 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	7.1 *	(42 - 124)
Terphenyl-d14	9.5 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-006 **Work Order #:** H2H4A1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	19000 NJ	Q	2.2315	ug/kg
Tetrachloroethylene	127-18-4	17000 NJ	Q	2.537	ug/kg
Ethylbenzene	100-41-4	6200 NJ	Q	2.9365	ug/kg
p-Xylene	106-42-3	20000 NJ	Q	3.0012	ug/kg
o-Xylene	95-47-6	7700 NJ	Q	3.1951	ug/kg
Unknown		2200 NJ	Q	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6600 NJ	Q	3.4477	ug/kg
Unknown		3900 NJ	Q	3.718	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	Q	3.7474	ug/kg
Benzene, 1,2,4-trimethyl-	95-63-6	6300 NJ	Q	4.0176	ug/kg
Unknown		3200 NJ	Q	4.2644	ug/kg
Limonene	138-86-3	24000 NJ	Q	4.3055	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	Q	4.4818	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2500 NJ	Q	4.5464	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2600 NJ	Q	4.7403	ug/kg
Undecane	1120-21-4	2800 NJ	Q	4.8814	ug/kg
Unknown		1700 NJ	Q	5.0694	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1600 NJ	Q	5.0987	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	Q	5.1399	ug/kg
Unknown		1600 NJ	Q	5.4395	ug/kg
Dodecane	112-40-3	1300 NJ	Q	5.8097	ug/kg
Tridecane	629-50-5	1500 NJ	Q	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2800 NJ	Q	6.9437	ug/kg
Tetradecane	629-59-4	3100 NJ	Q	7.684	ug/kg
Unknown		1500 NJ	Q	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	3100 NJ	Q	8.3714	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1900 NJ	Q	8.677	ug/kg
3,6,9,12,15-Pentaoxanonadecan-	1786-94-3	1300 NJ	Q	9.6876	ug/kg
Unknown		4500 NJ	Q	11.655	ug/kg
1,4-dioxane	123-91-1	1700	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Lab Smp Id: H2H4A1AA Client Smp ID: G-2988-R2-SPENT ACT
Inj Date : 18-APR-2006 14:05
Operator : 60841 Inst ID: md.i
Smp Info : H2H4A1AA,5,0,,,,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 10
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	57691	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	186343	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	134420	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	219786	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	228765	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	227622	20.0000	
$ 7 2-Fluorophenol	112	3.031	3.025	(0.728)	19405	4.80983	802(R)
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	32087	6.59342	1100(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	17329	4.12569	688(R)
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	36361	4.10328	684(R)
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	1489	1.06868	178(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	10644	0.95668	159(R)
175 1,4-Dioxane	88	1.850	1.850	(0.444)	14168	10.4322	1740
13 N-Nitrosodimethylamine	74	2.232	2.050	(0.536)	9043	4.69649	~~783~~
14 Pyridine	79	2.085	2.067	(0.501)	3128	0.81255	~~135~~

4/20/06

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 19-Apr-2006 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/Kg)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	21969	4.27131	712
16 Aniline	93	3.965	3.877	(0.952)	3609	0.62837	~~105~~
17 Bis(2-chloroethyl)ether	93	4.264	3.930	(1.024)	2318	0.64419	~~107~~
19 1,3-Dichlorobenzene	146	4.176	4.124	(1.003)	44651	10.1964	~~1700~~
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.003)	44651	10.0934	1680
21 Benzyl alcohol	108	4.329	4.323	(1.040)	1770	0.69423	~~116~~
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	579472	136.676	22800
23 2-Methylphenol	108	4.482	4.476	(1.076)	3351	0.91727	~~153~~
24 2,2'-Oxybis(1-Chloropropane)	45	4.394	4.500	(1.055)	4525	0.73356	~~122~~
25 4-Methylphenol	108	4.658	4.647	(1.119)	7066	1.86036	310
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	7066	1.86036	310
29 Nitrobenzene	77	4.740	4.835	(0.824)	12517	3.07363	~~512~~
32 2,4-Dimethyphenol	107	5.357	5.346	(0.932)	2697	0.65862	~~110~~
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	2316	0.53276	~~88.8~~
34 Benzoic acid	122	5.528	5.510	(0.961)	1887	0.89193	~~149~~
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	42833	11.8096	1970
37 Naphthalene	128	5.774	5.781	(1.004)	384889	35.2733	5880
38 4-Chloroaniline	127	5.774	5.898	(1.004)	53193	11.3094	~~1880~~
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	317429	45.5718	7600
46 2-Nitroaniline	65	7.878	7.831	(0.936)	1381	0.53707	~~89.5~~
47 Acenaphthylene	152	8.207	8.213	(0.976)	89568	7.05999	1180
49 2,6-Dinitrotoluene	165	8.283	8.242	(0.985)	2452	1.23338	~~206~~
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	25612	3.36214	560
52 2,4-Dinitrophenol ##spcc##	184	8.712	8.536	(1.036)	1102	12.6142	~~2100~~
53 Dibenzofuran	168	8.677	8.648	(1.031)	7097	0.62453	~~104~~
54 4-Nitrophenol ##spcc##	109	8.630	8.683	(1.026)	922	0.62205	~~104~~
55 2,4-Dinitrotoluene	165	8.712	8.718	(1.036)	5895	2.20139	~~367~~
56 Fluorene	166	9.035	9.036	(1.074)	40459	4.27184	712
60 4,6-Dinitro-2-methylphenol	198	9.494	9.159	(0.957)	981	0.70993	~~118~~
61 N-Ndpa / diphenylamine (ccc)	169	9.206	9.194	(0.928)	3977	0.69192	~~115~~
62 1,2-Diphenylhydrazine/azobnz	77	9.247	9.218	(0.932)	5162	0.57909	~~96.5~~
66 Phenanthrene	178	9.946	9.946	(1.002)	81693	6.16433	1030
67 Anthracene	178	9.981	9.982	(1.006)	18824	1.41989	237
70 Fluoranthene (ccc)	202	10.910	10.916	(1.099)	14176	0.99035	165
71 Pyrene	202	11.080	11.080	(0.923)	21582	1.47509	246
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	13754	1.65059	275
84 Benzidine	184	10.916	11.016	(1.100)	5412	0.60083	~~100~~
91 acetophenone	105	4.629	4.623	(1.111)	64463	13.3003	~~2220~~
104 m-dinitrobenzene	76	8.178	8.160	(0.972)	783	0.69954	~~116~~
110 diphenylamine	169	9.182	9.188	(1.091)	4512	0.64127	~~107~~

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4a2aa.d
Lab Smp Id: H2H4A1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2988-R2-SPENT ACT
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	57691	-6.84
2 Naphthalene-d8	196946	98473	393892	186343	-5.38
3 Acenaphthene-d10	140395	70198	280790	134420	-4.26
4 Phenanthrene-d10	245474	122737	490948	219786	-10.46
5 Chrysene-d12	253631	126816	507262	228765	-9.80
6 Perylene-d12	225613	112806	451226	227622	0.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: SOLID
Lab Smp Id: H2H4A1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

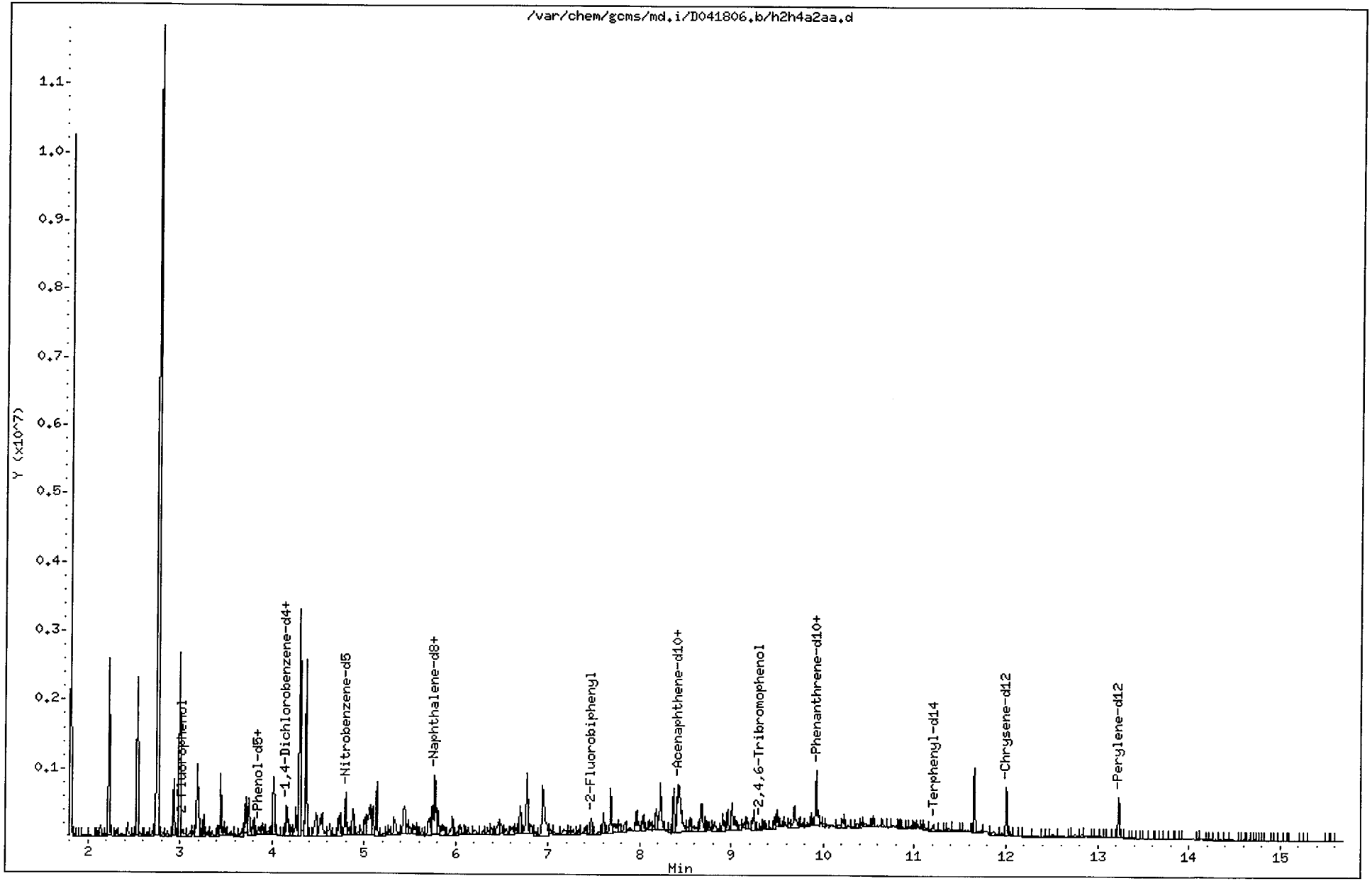
Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2988-R2-SPENT ACT
Operator: 60841
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	802	32.07*	44-103
$ 8 Phenol-d5	2500	1100	43.96*	44-101
$ 9 Nitrobenzene-d5	1670	688	41.26*	42-100
$ 10 2-Fluorobiphenyl	1670	684	41.03*	45-102
$ 11 2,4,6-Tribromophen	2500	178	7.12*	47-116
$ 12 Terphenyl-d14	1670	159	9.57*	54-114

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Date : 18-APR-2006 14:05
Client ID: G-2988-R2-SPENT ACT
Sample Info: H2H4A1AA,5,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

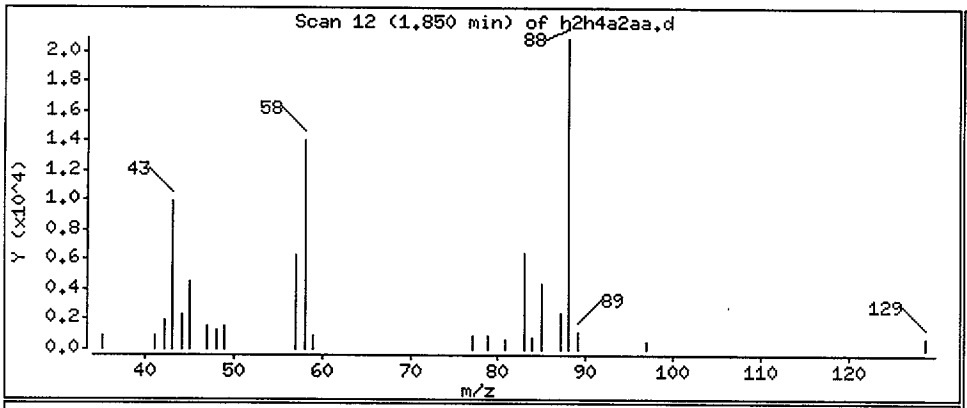
Operator: 60841

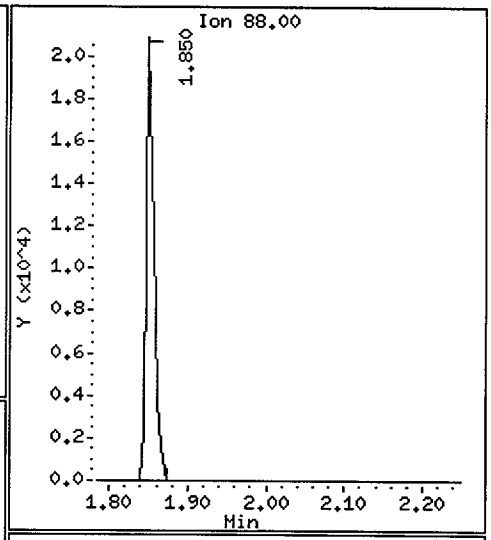
Column phase: ZB-5

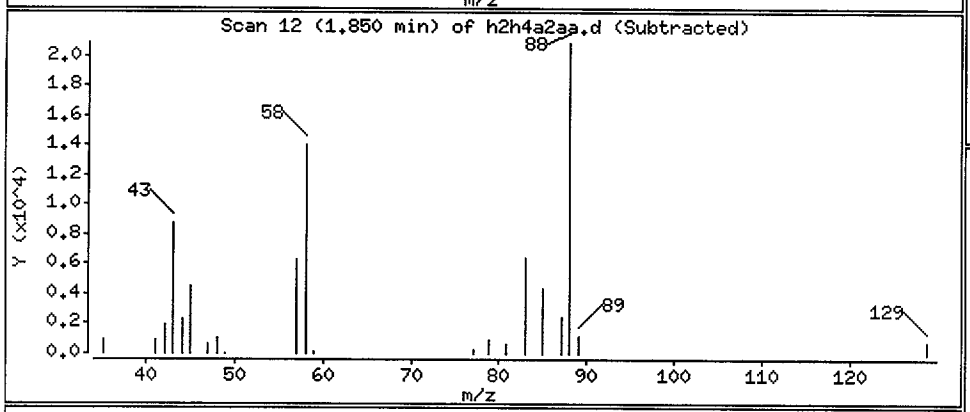
Column diameter: 0.25

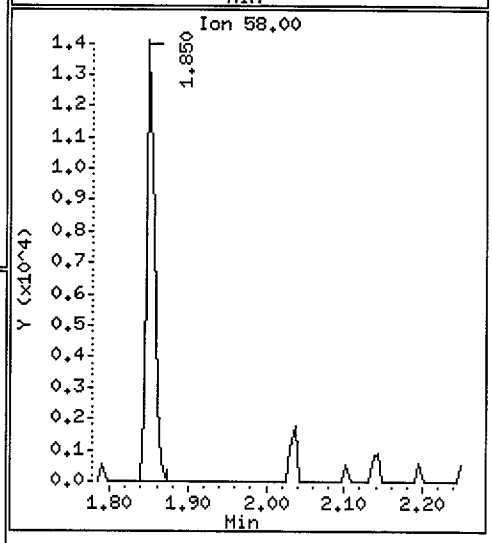
175 1,4-Dioxane

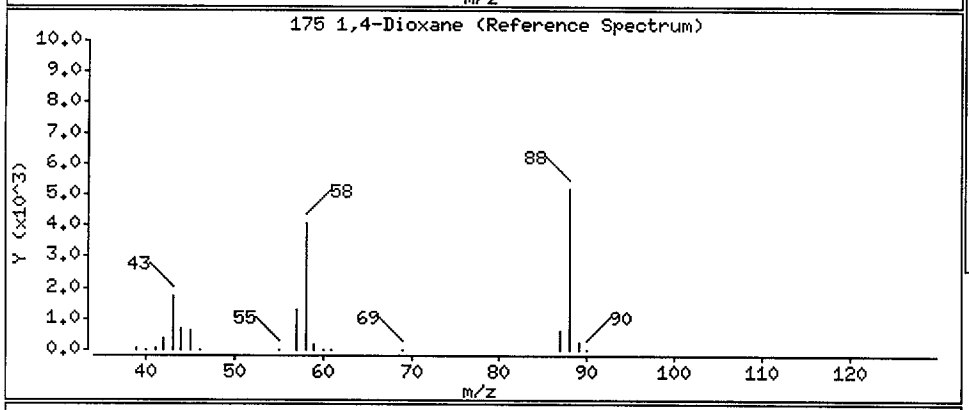
Concentration: 1740 ug/Kg

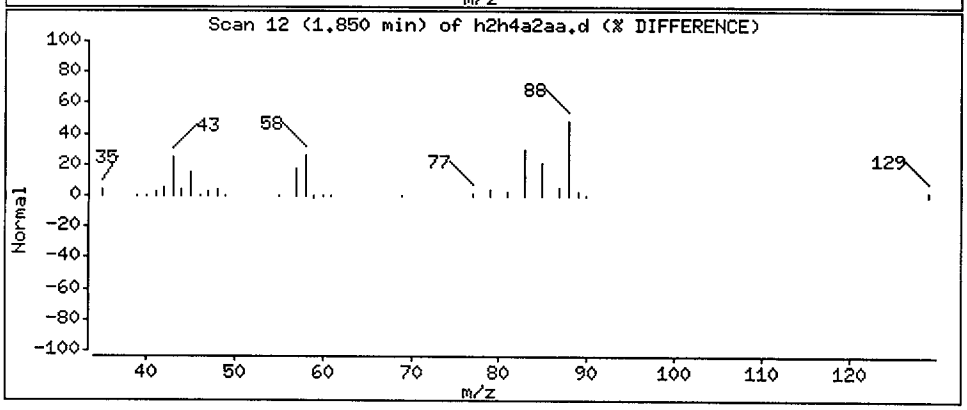












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

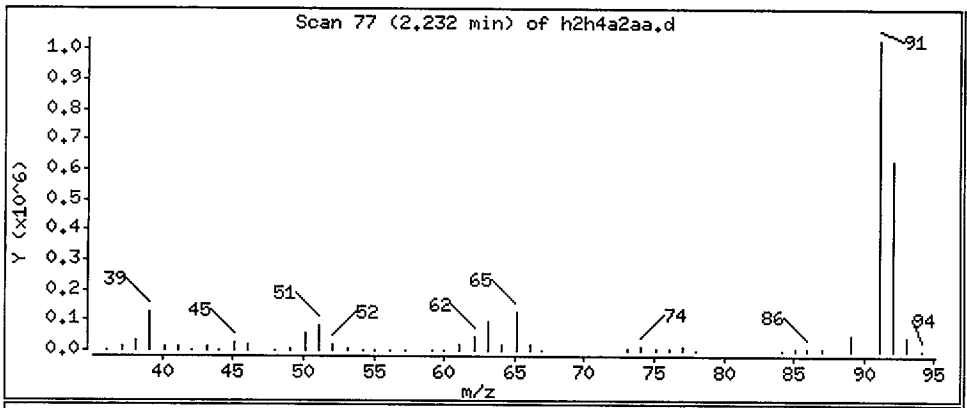
Operator: 60841

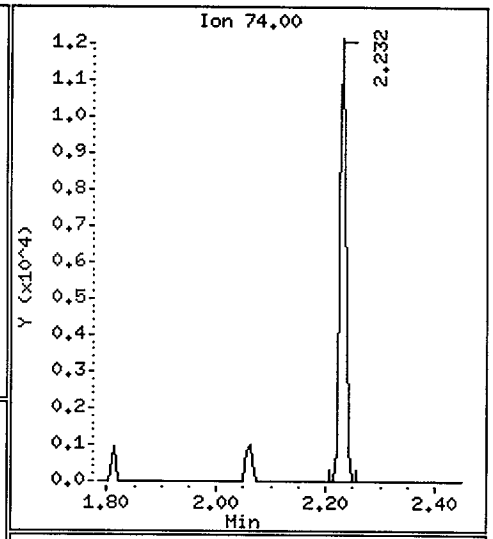
Column phase: ZB-5

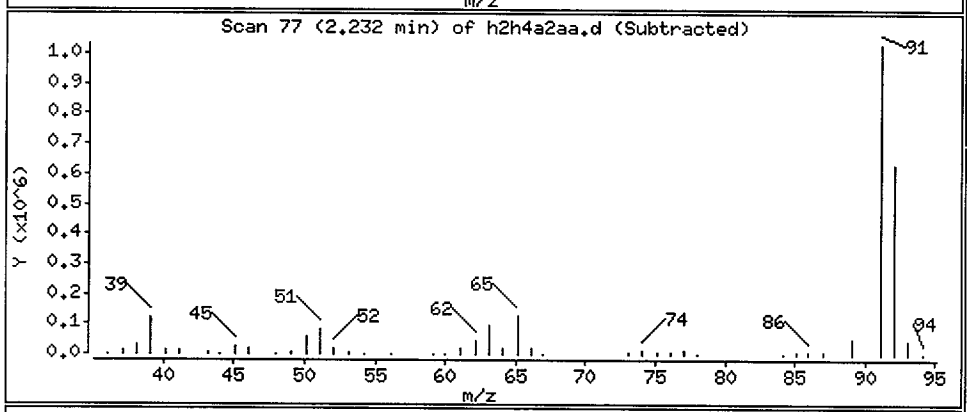
Column diameter: 0.25

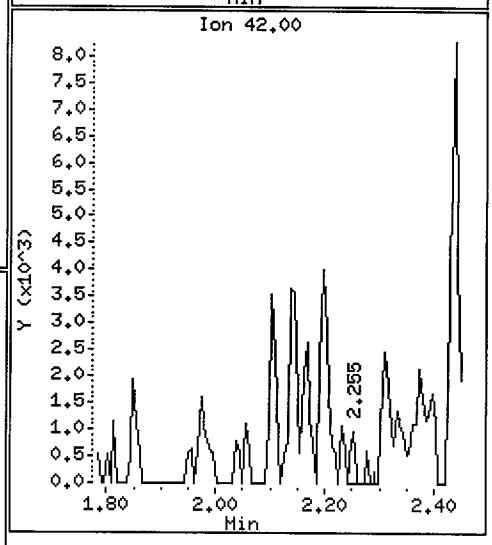
13 N-Nitrosodimethylamine

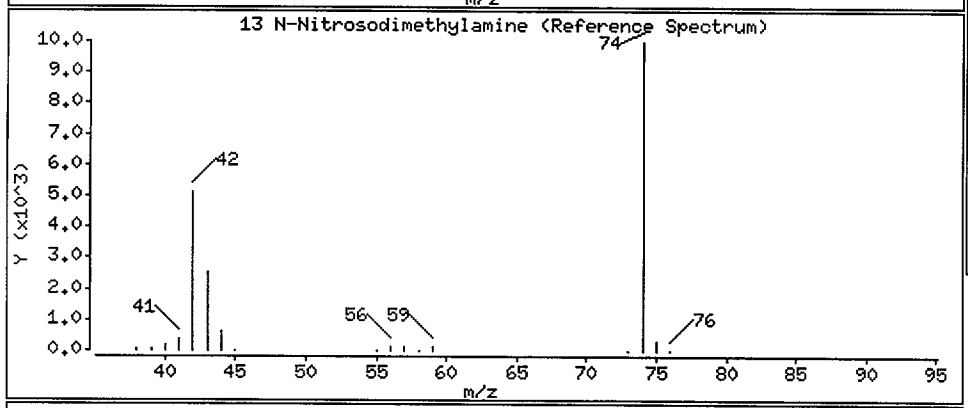
Concentration: 783 ug/Kg

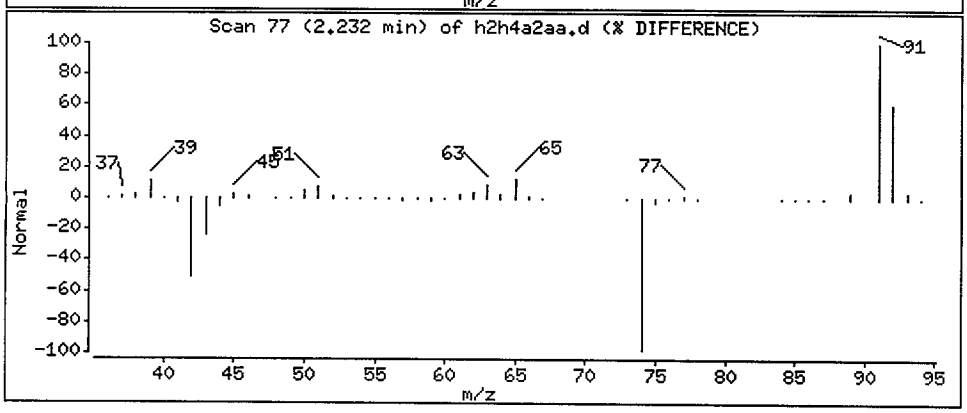












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

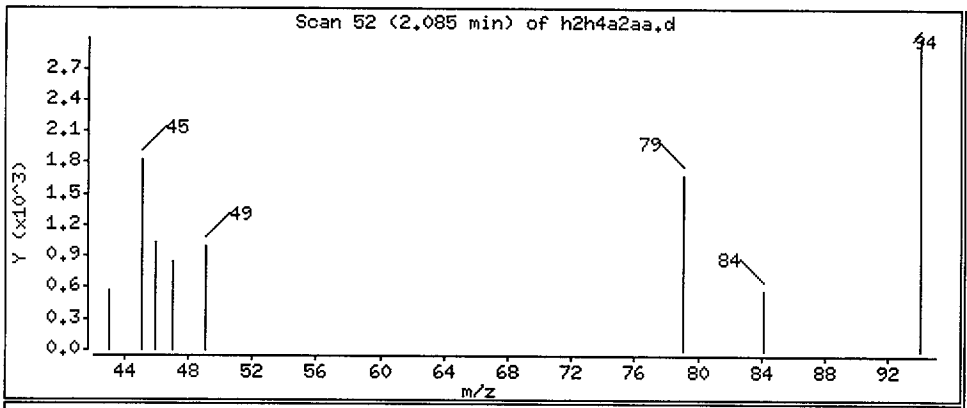
Operator: 60841

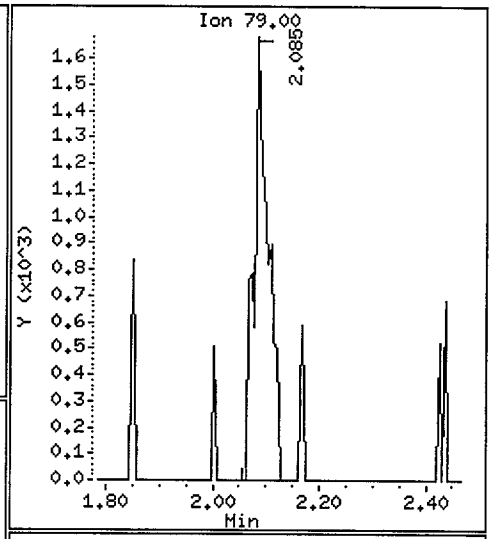
Column phase: ZB-5

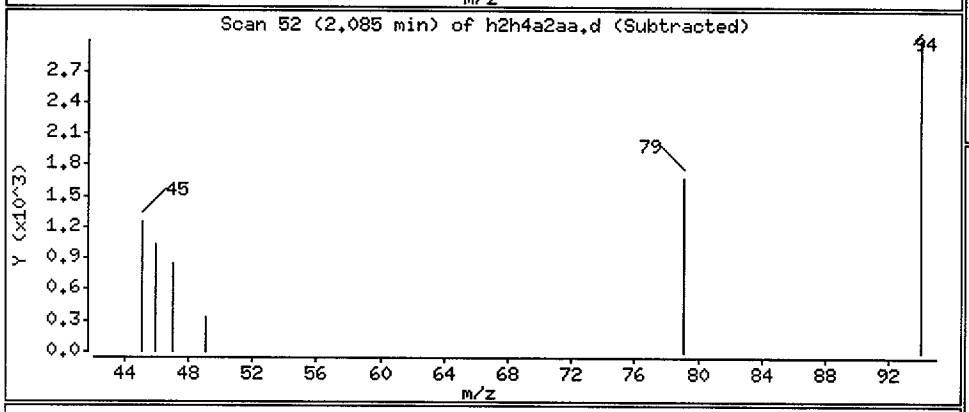
Column diameter: 0.25

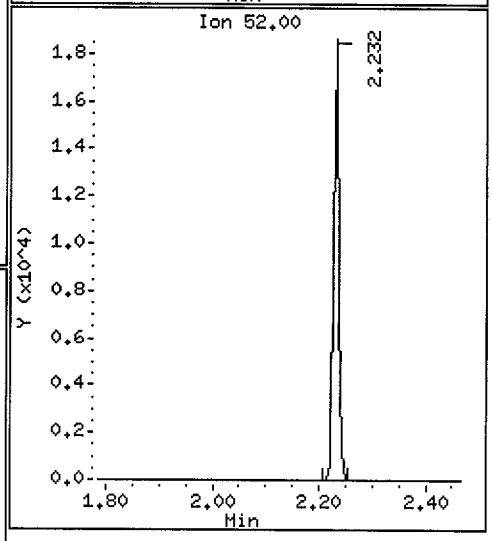
14 Pyridine

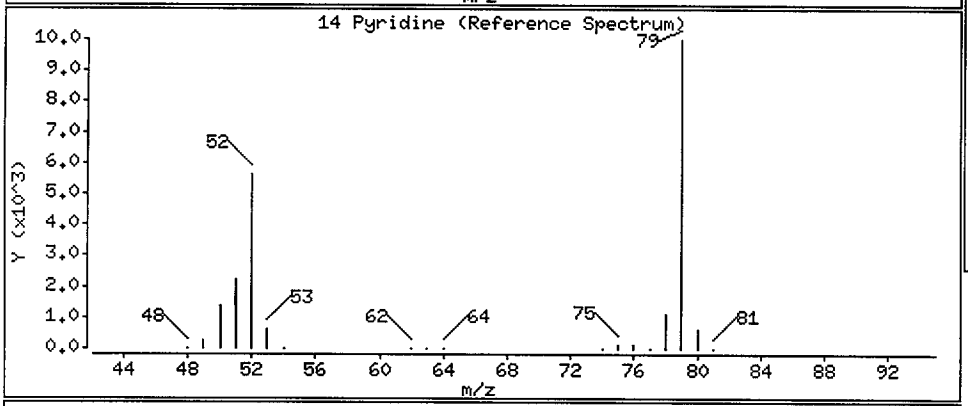
Concentration: 135 ug/Kg

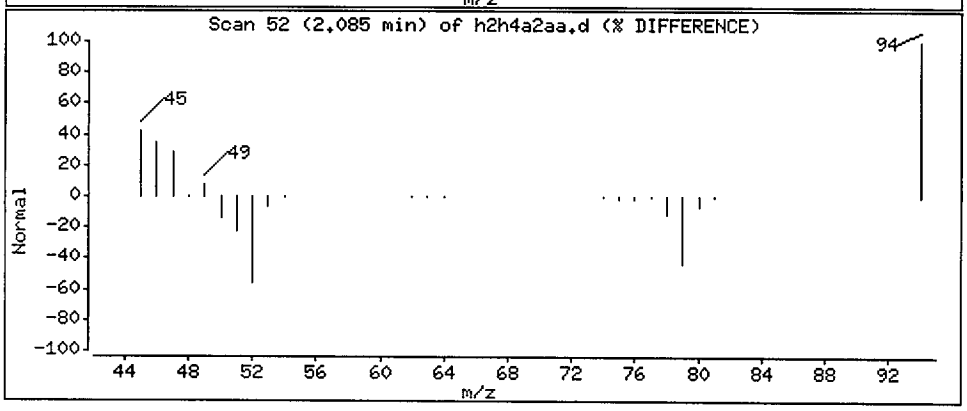












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

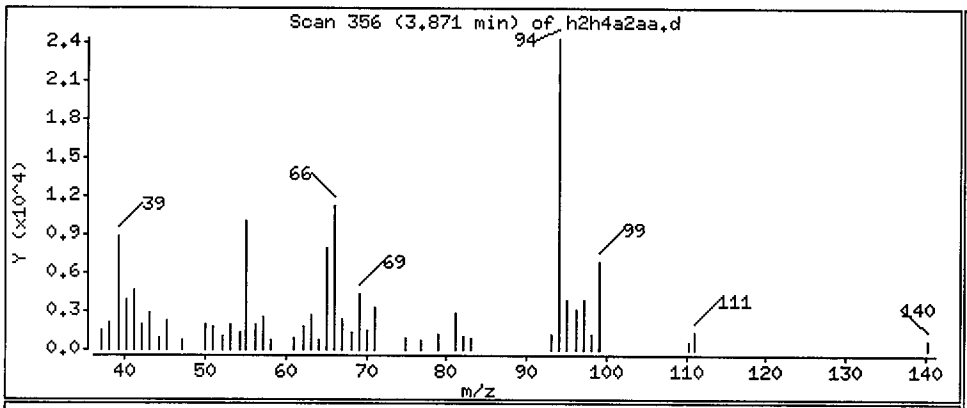
Operator: 60841

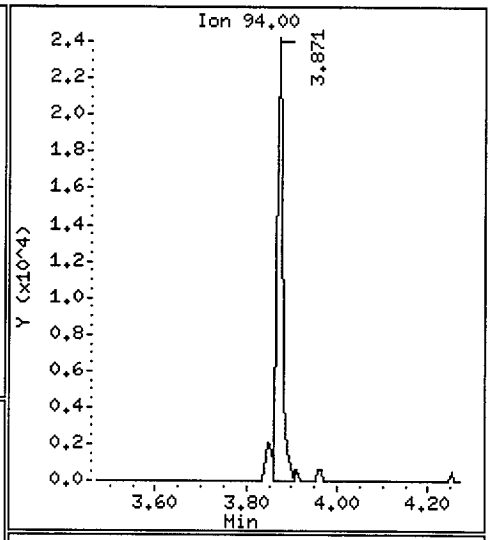
Column phase: ZB-5

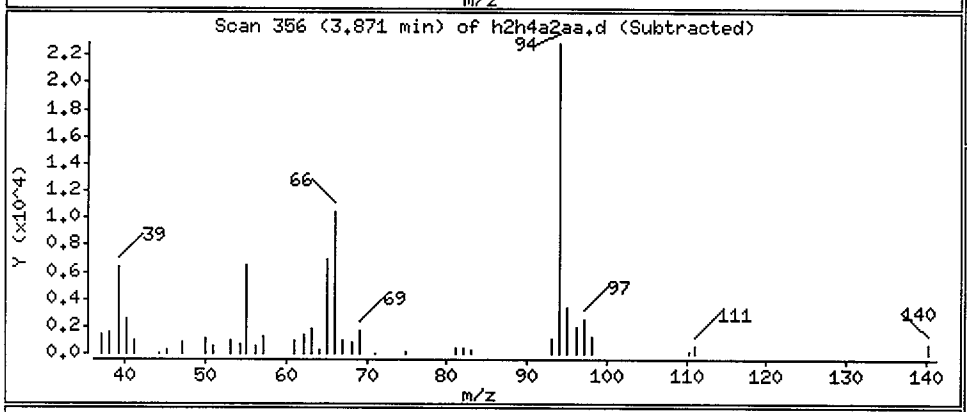
Column diameter: 0.25

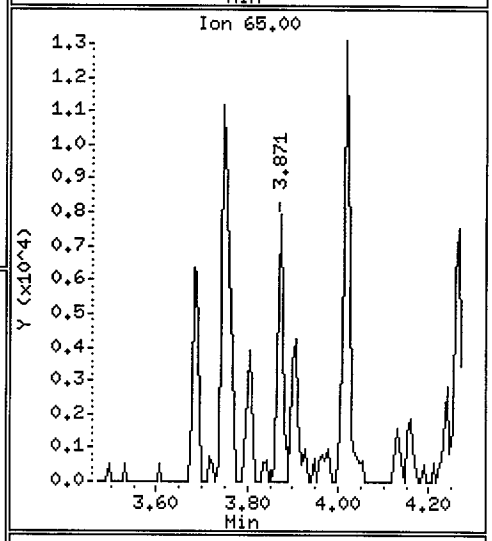
15 Phenol (ccc)

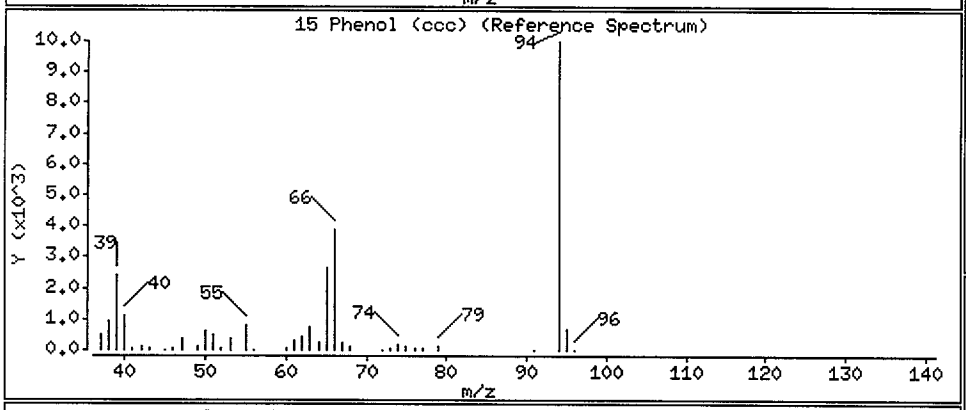
Concentration: 712 ug/Kg

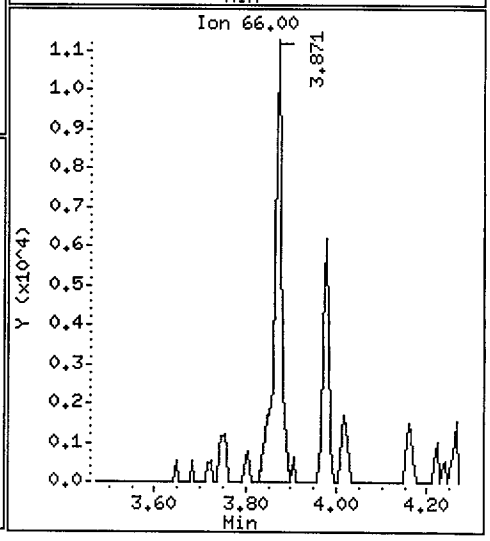


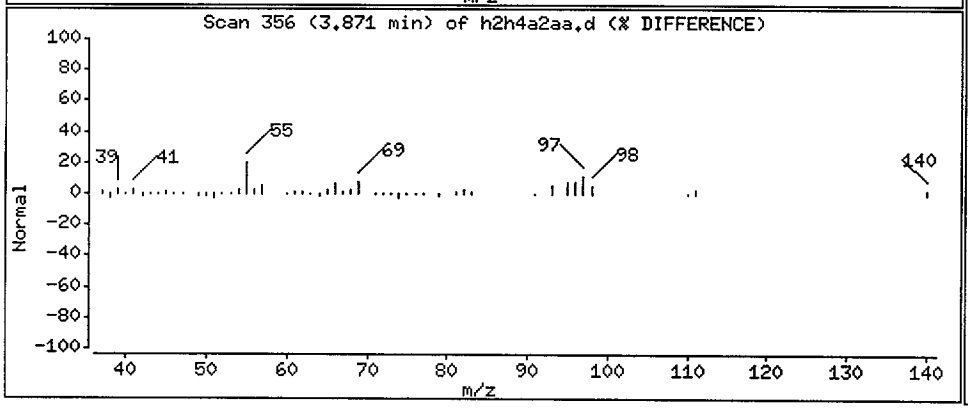












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

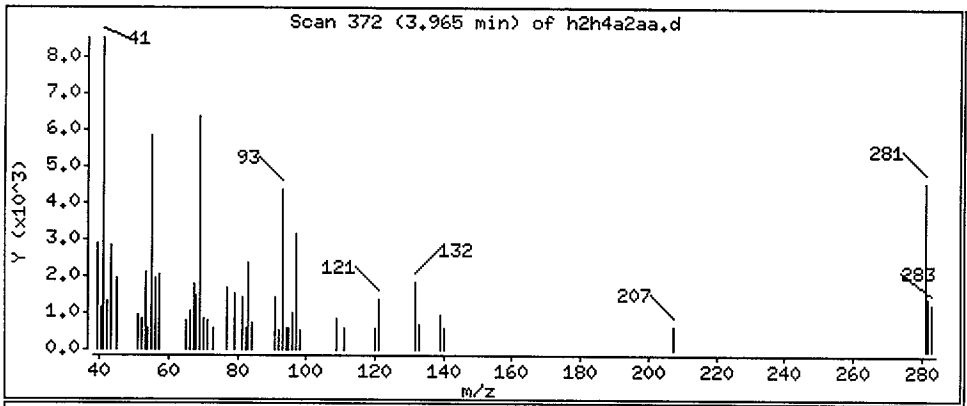
Operator: 60841

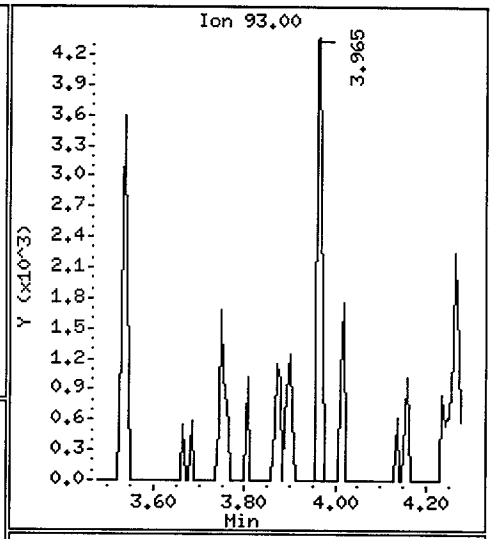
Column phase: ZB-5

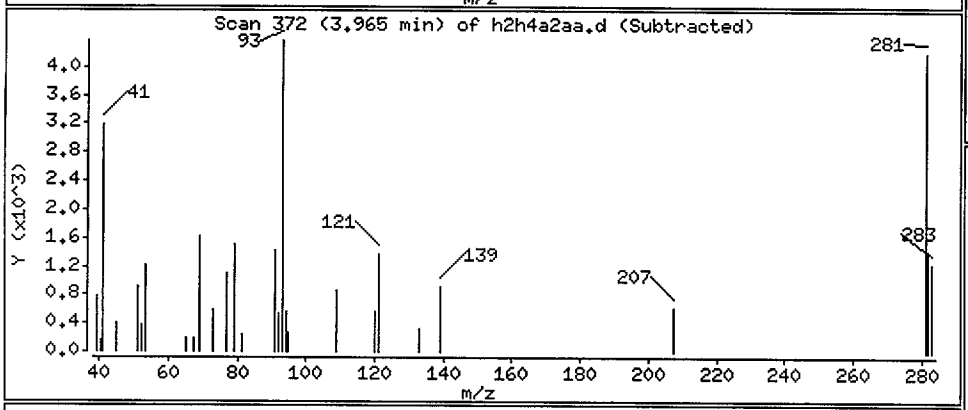
Column diameter: 0.25

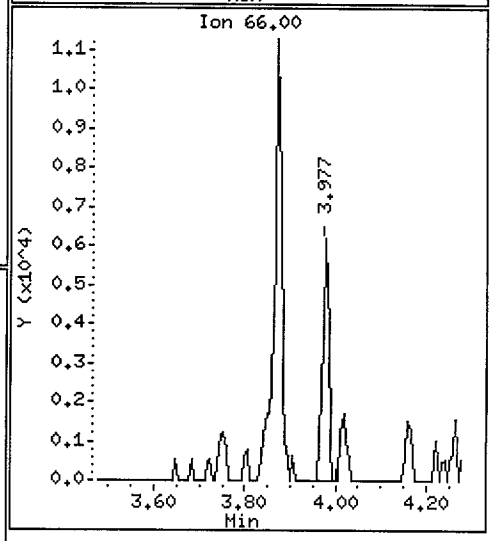
16 Aniline

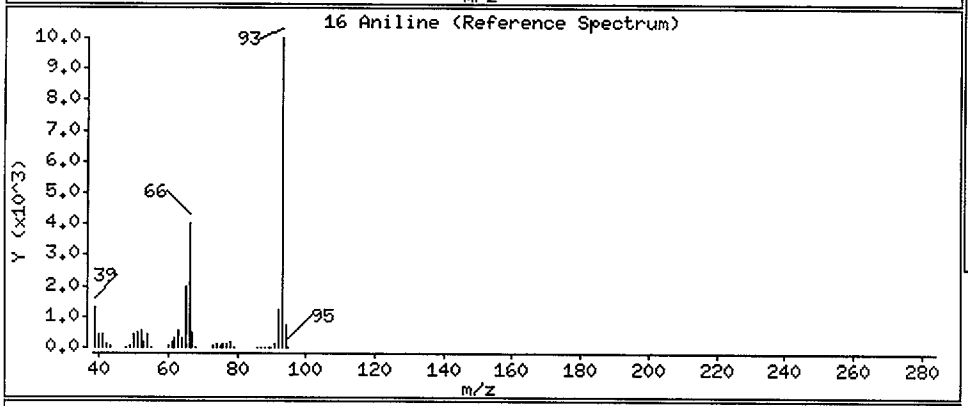
Concentration: 105 ug/Kg

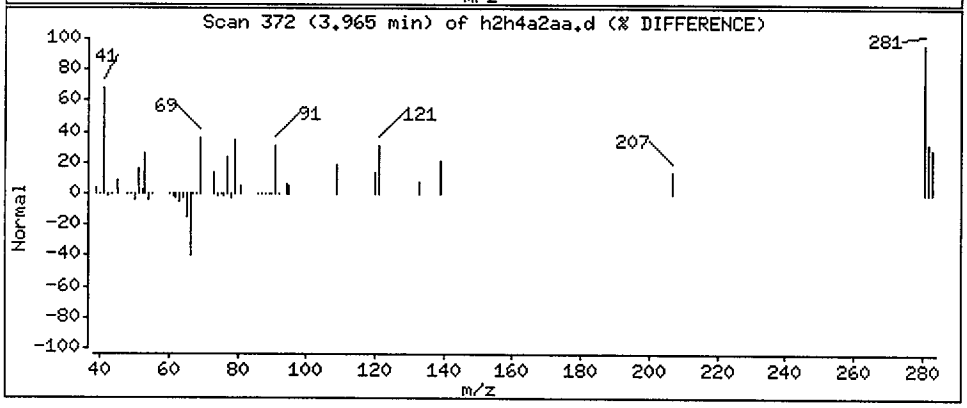












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

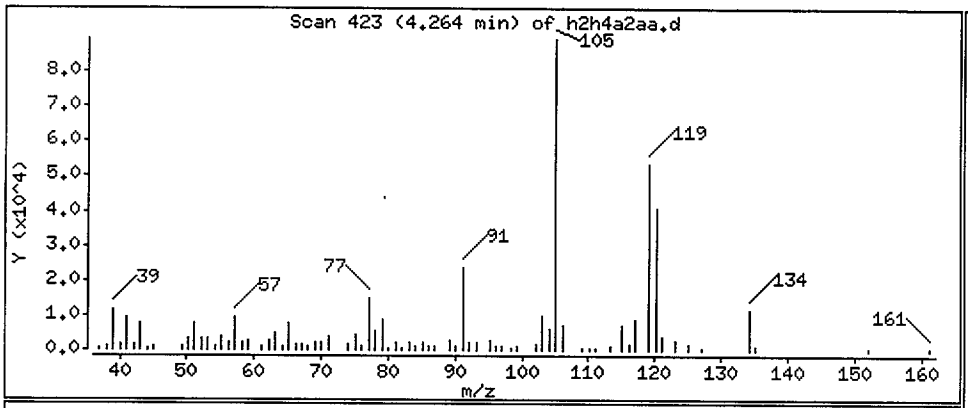
Operator: 60841

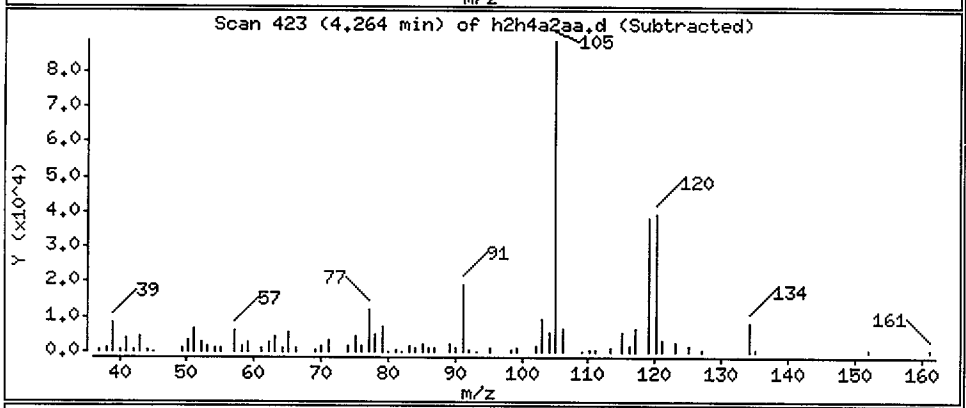
Column phase: ZB-5

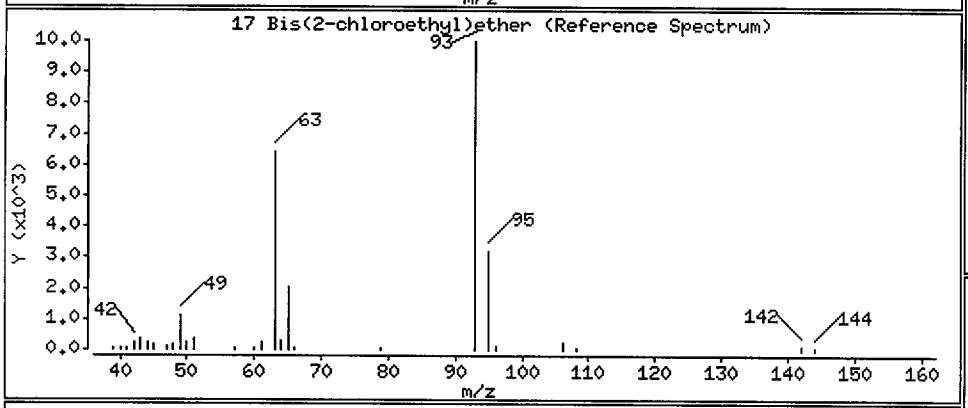
Column diameter: 0.25

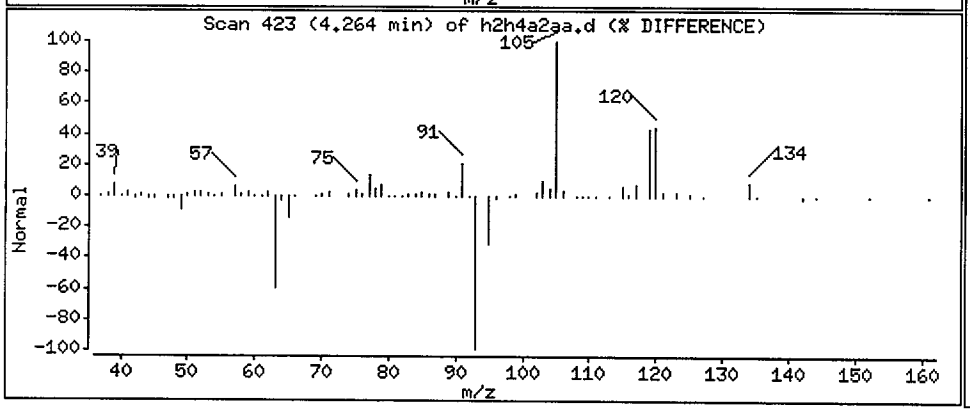
17 Bis(2-chloroethyl)ether

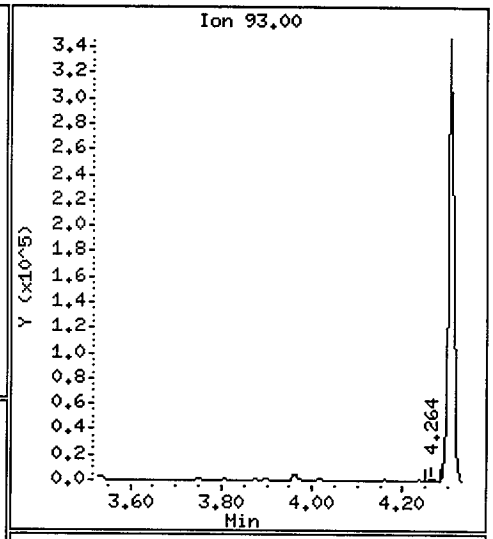
Concentration: 107 ug/Kg

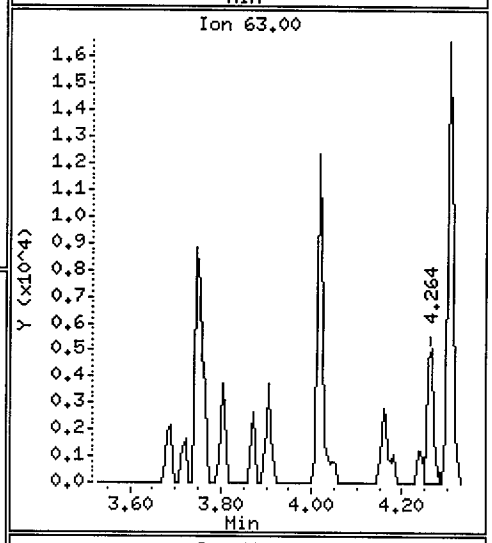


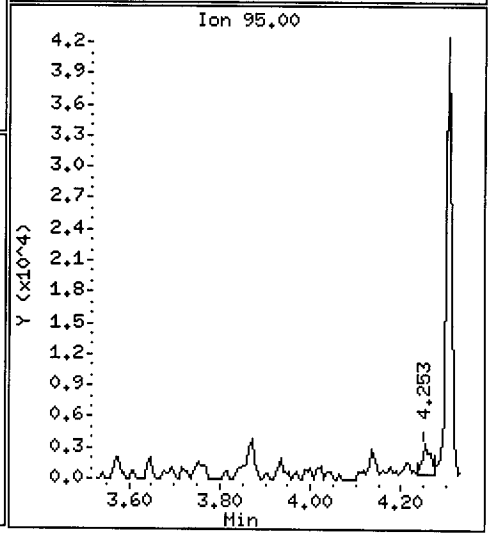












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

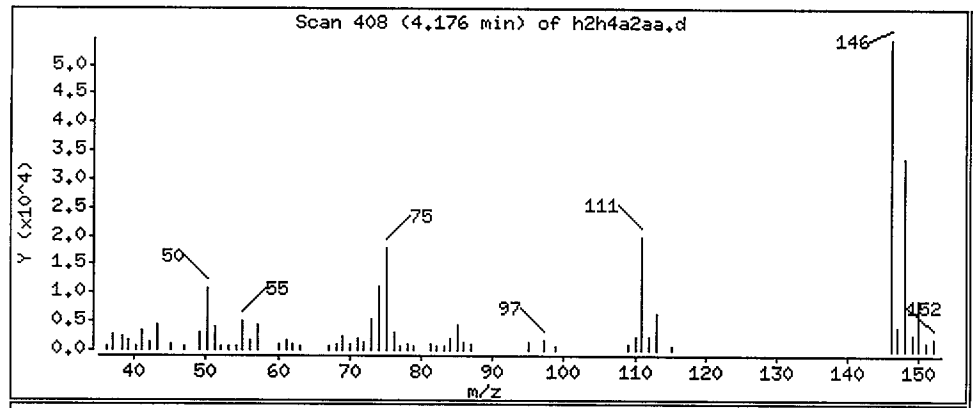
Operator: 60841

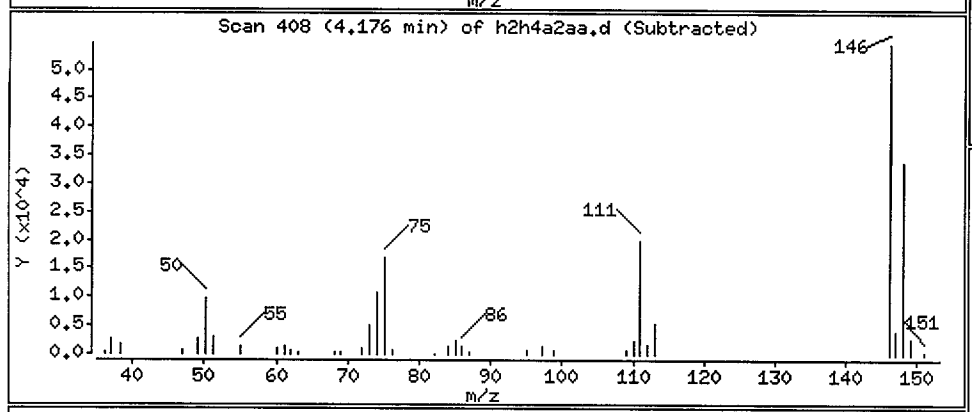
Column phase: ZB-5

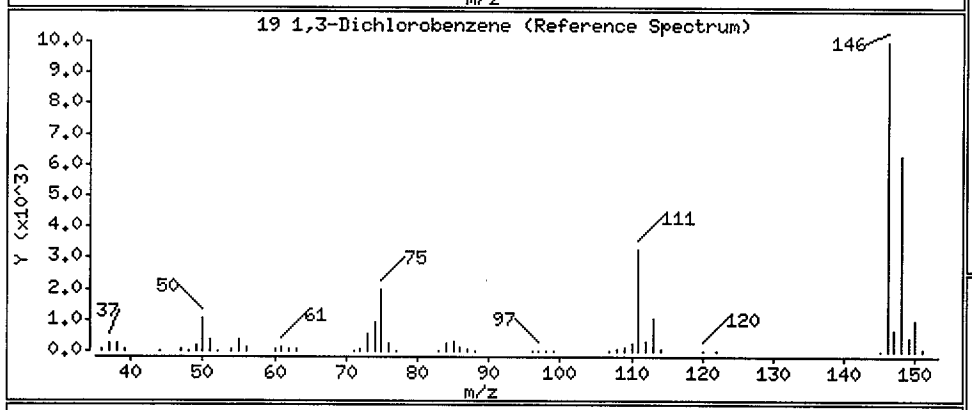
Column diameter: 0.25

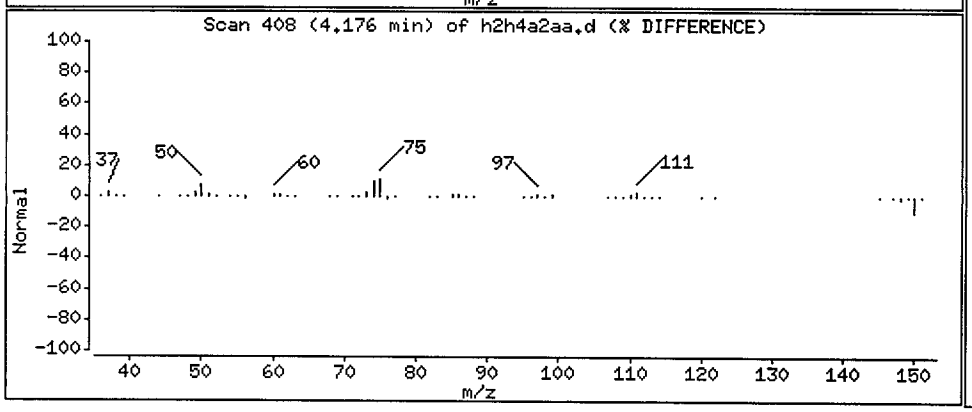
19 1,3-Dichlorobenzene

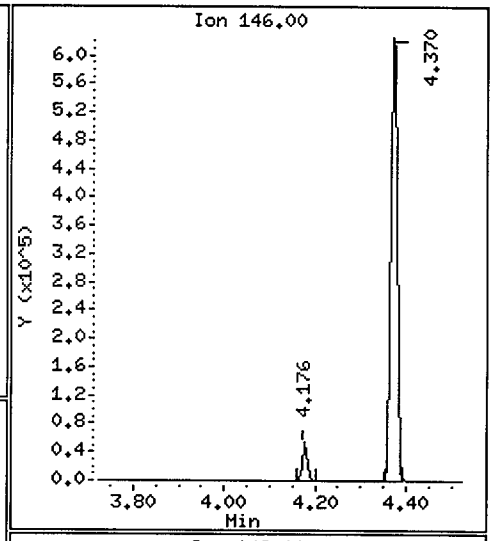
Concentration: 1700 ug/Kg

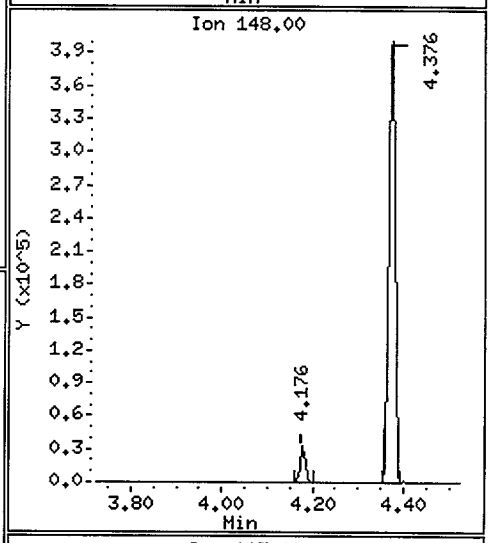


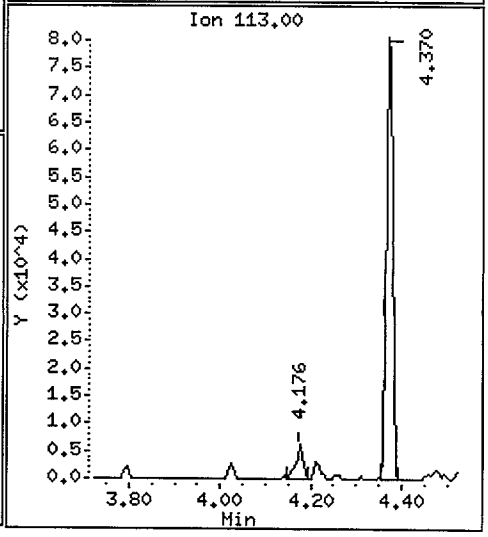












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

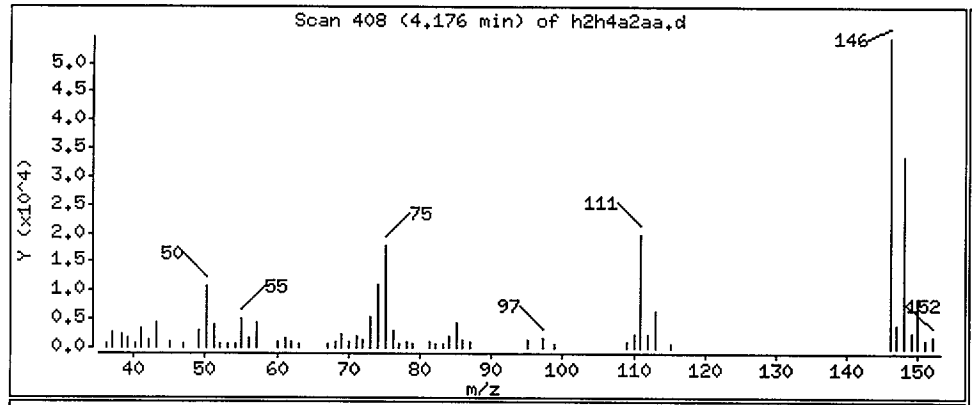
Operator: 60841

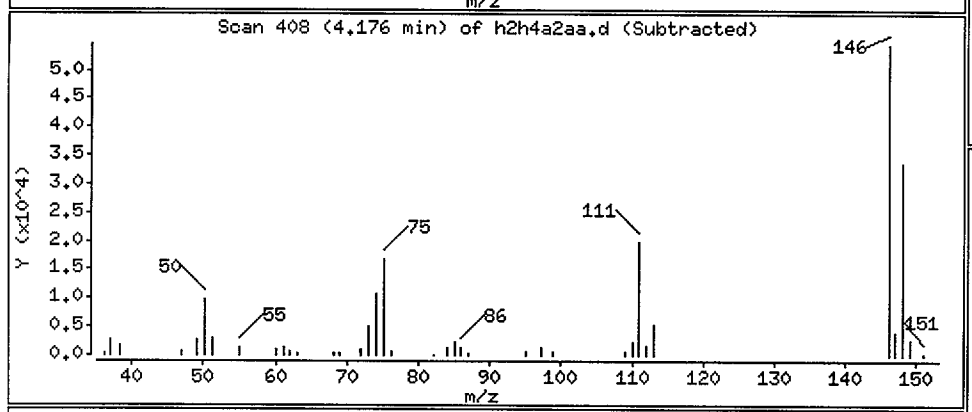
Column phase: ZB-5

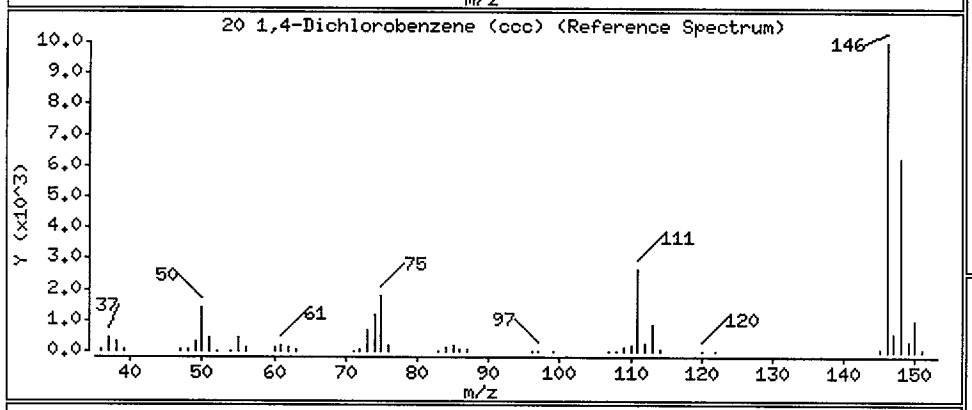
Column diameter: 0.25

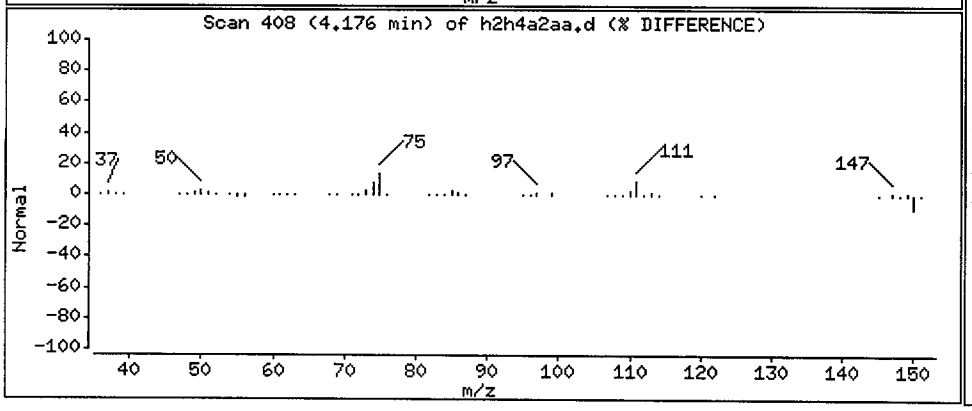
20 1,4-Dichlorobenzene (ccc)

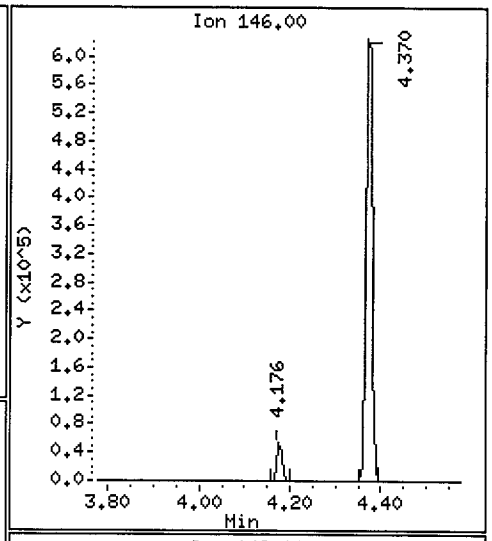
Concentration: 1680 ug/Kg

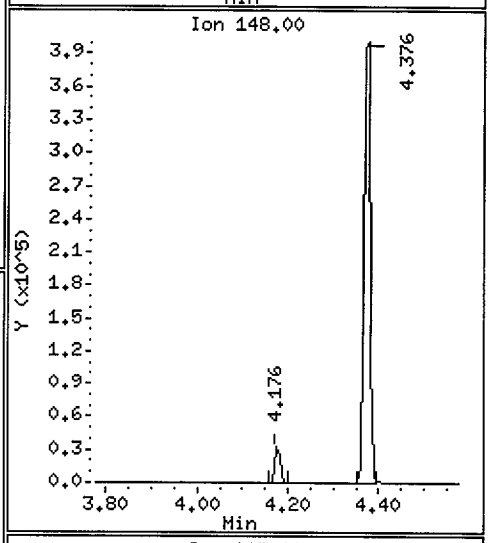


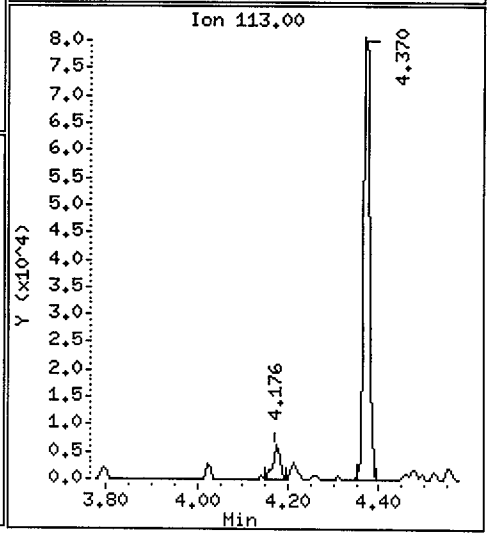












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

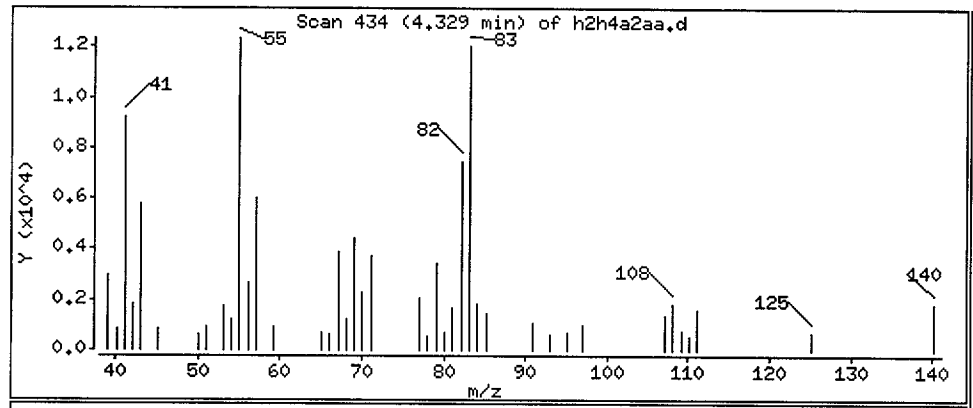
Operator: 60841

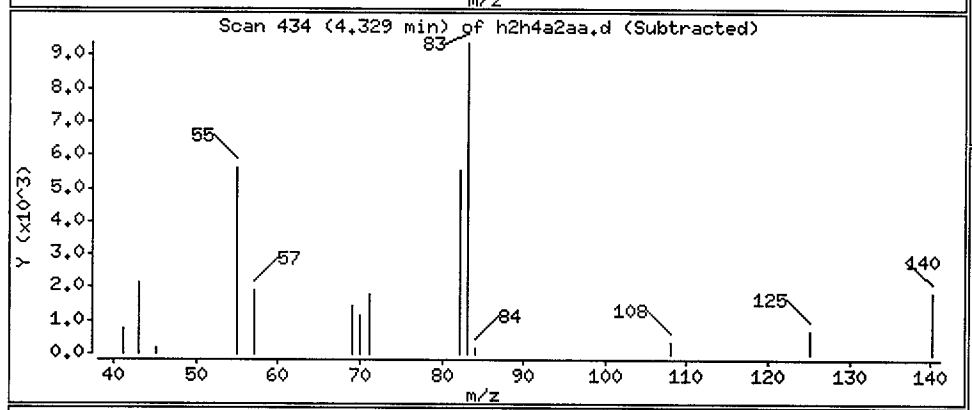
Column phase: ZB-5

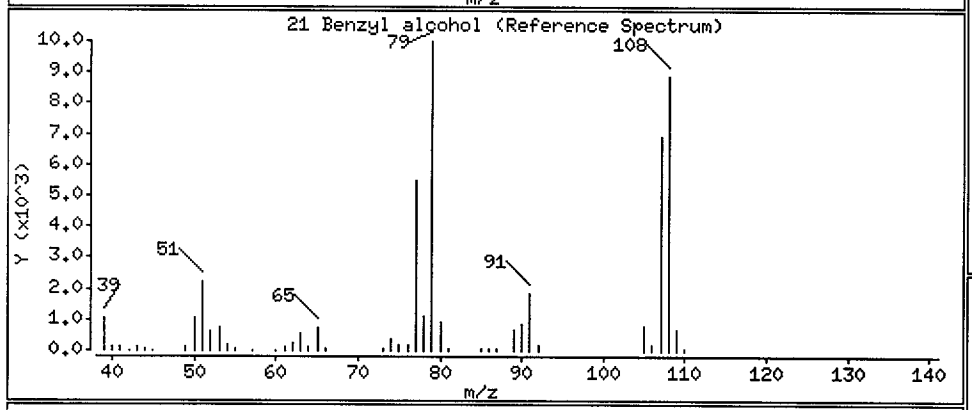
Column diameter: 0.25

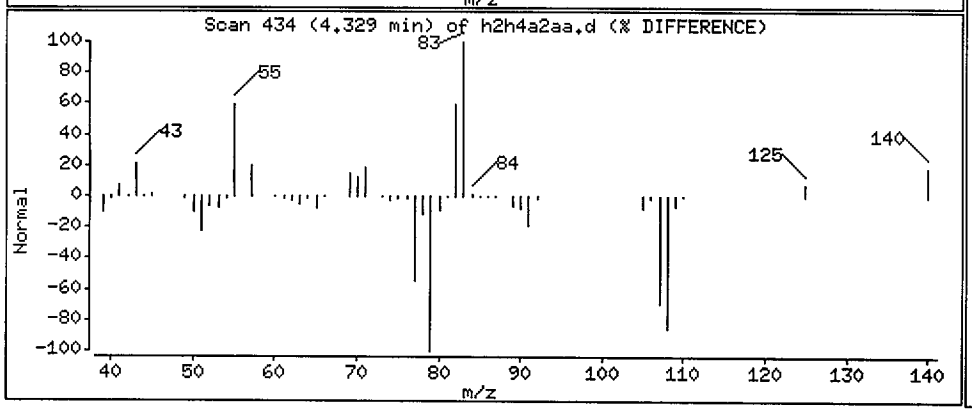
21 Benzyl alcohol

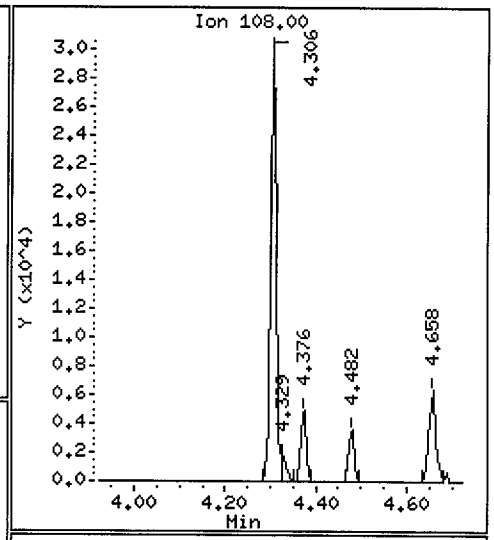
Concentration: 116 ug/Kg

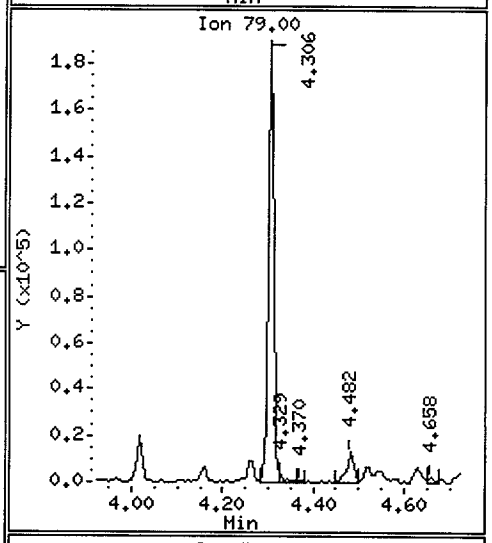


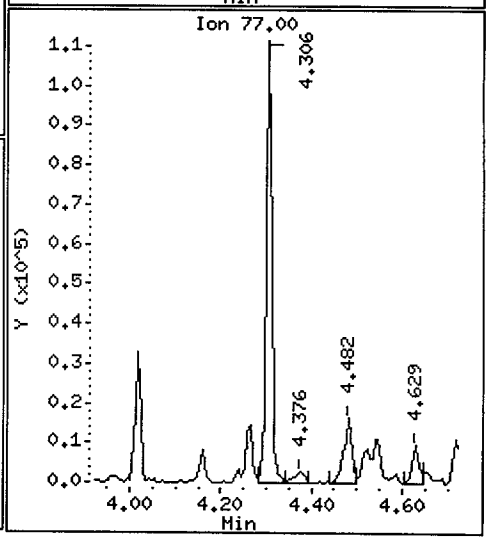












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

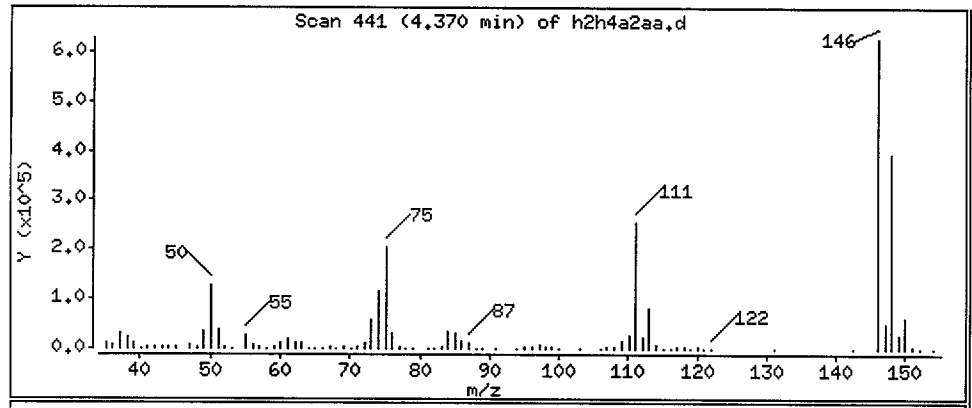
Operator: 60841

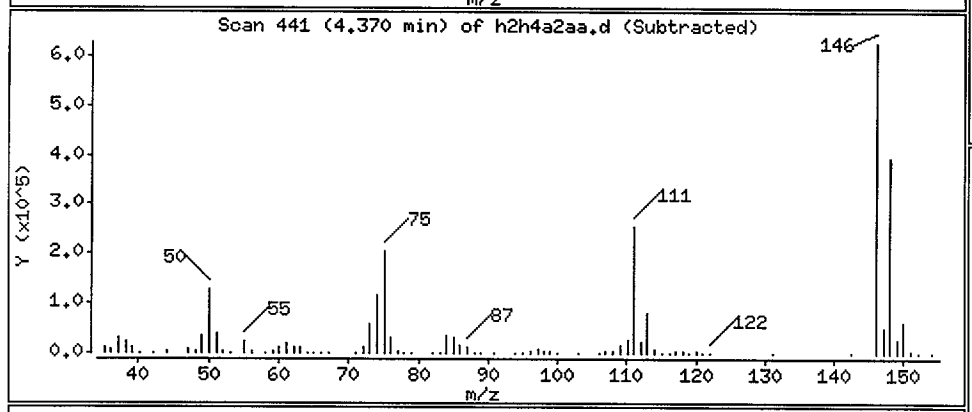
Column phase: ZB-5

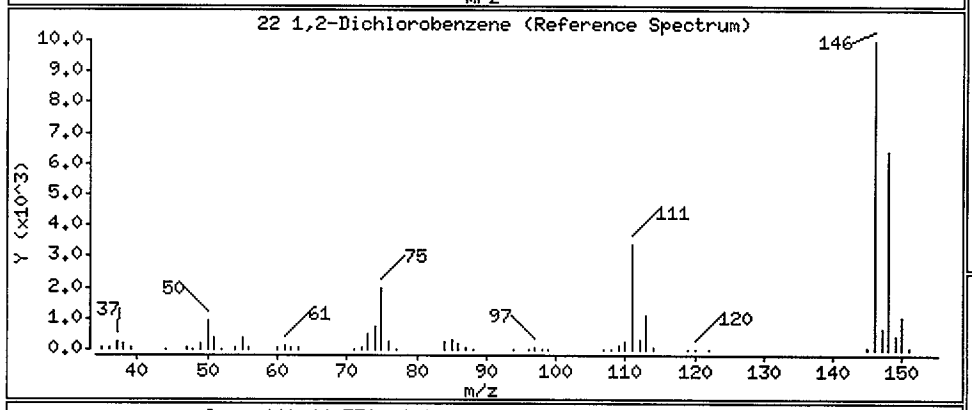
Column diameter: 0.25

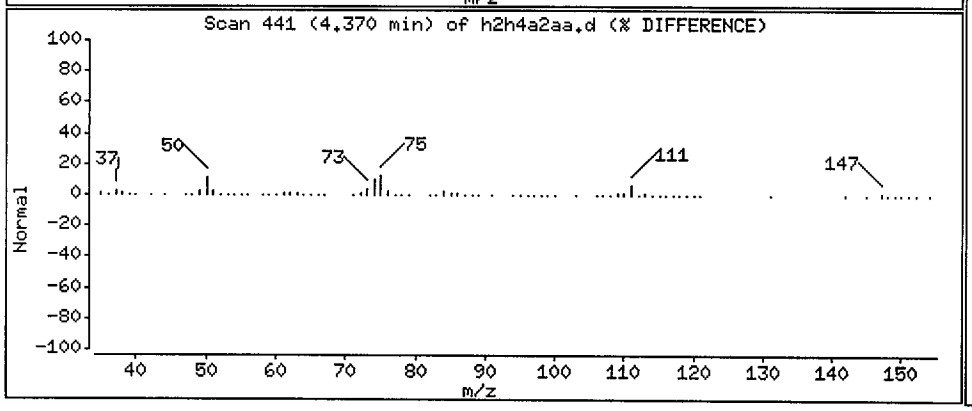
22 1,2-Dichlorobenzene

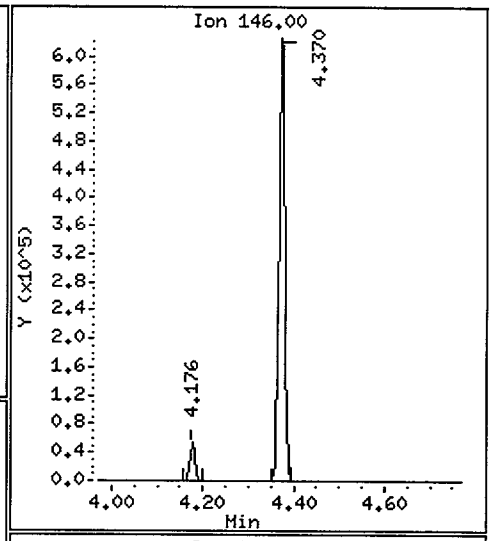
Concentration: 22800 ug/Kg

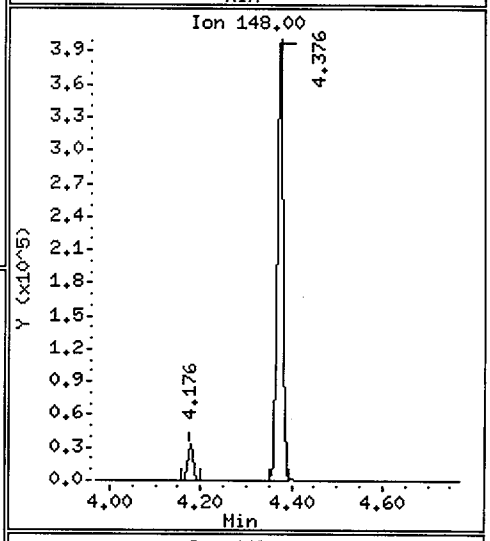


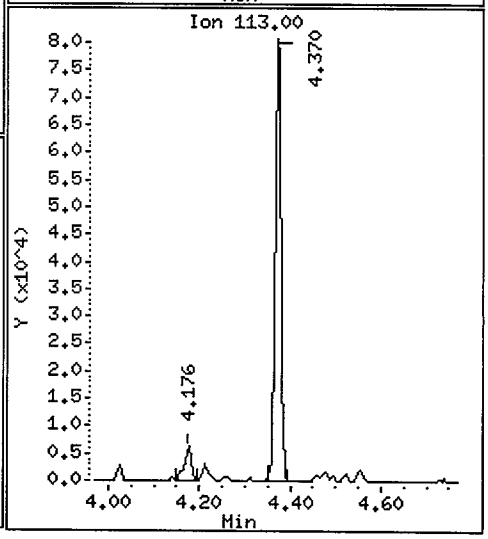












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

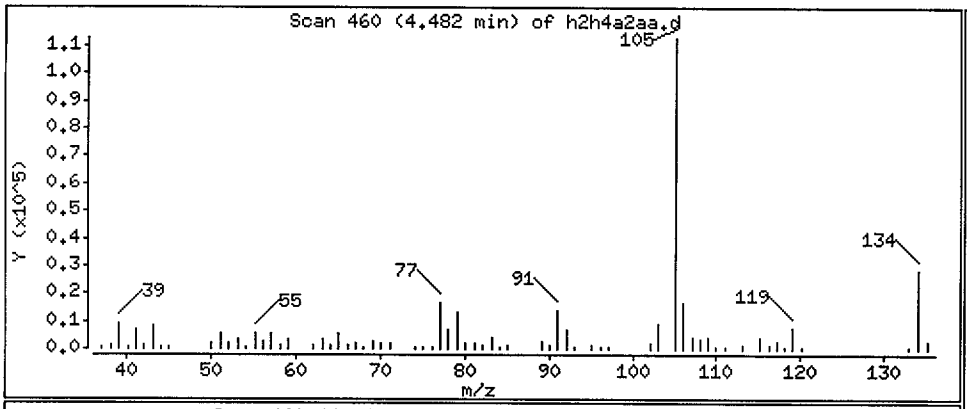
Operator: 60841

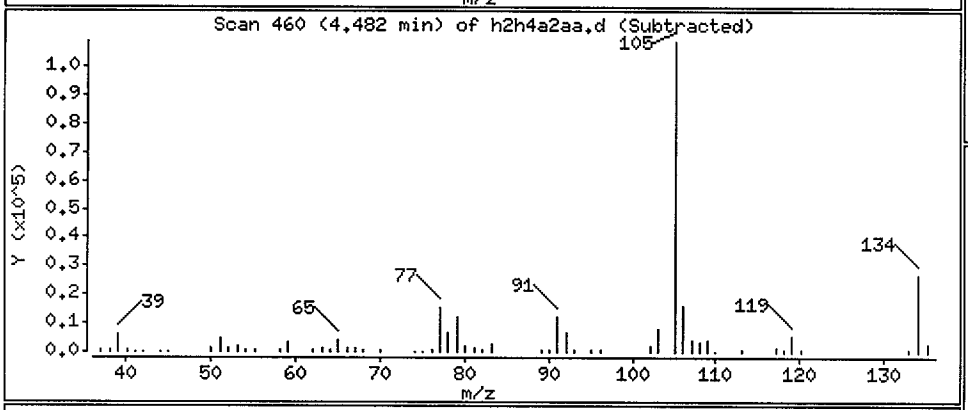
Column phase: ZB-5

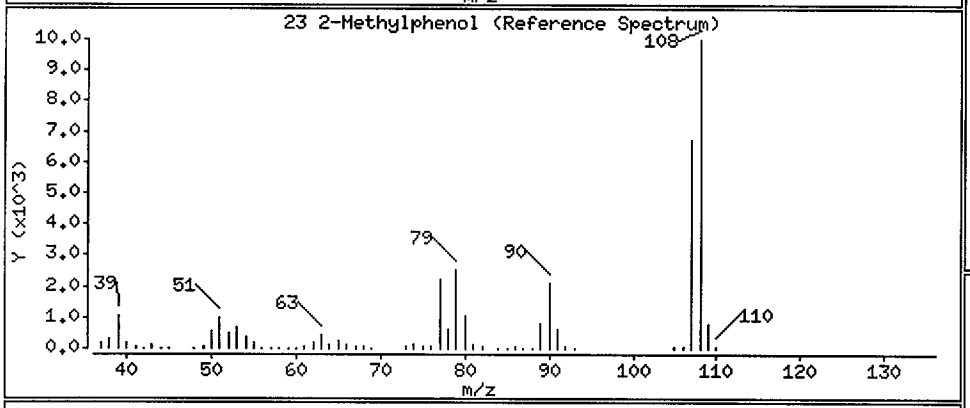
Column diameter: 0.25

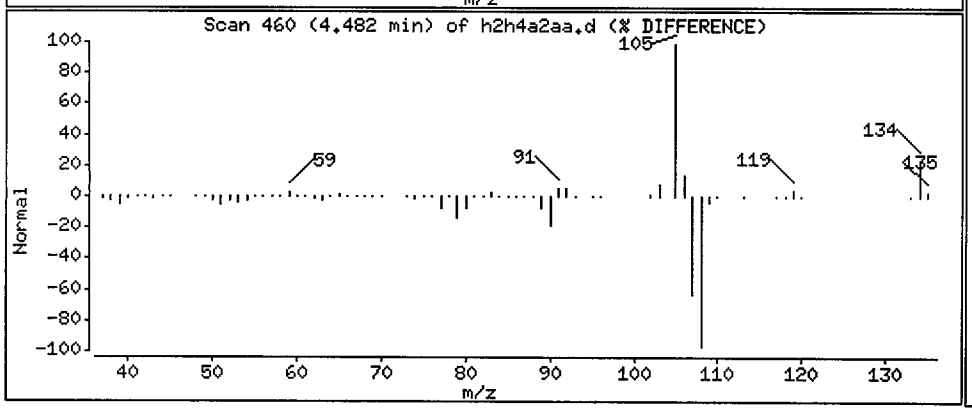
23 2-Methylphenol

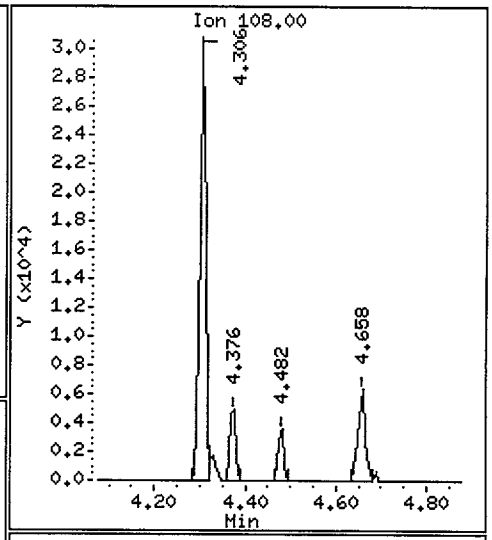
Concentration: 153 ug/Kg

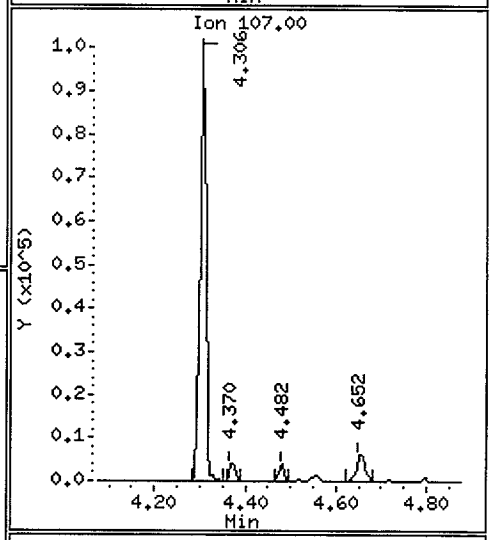


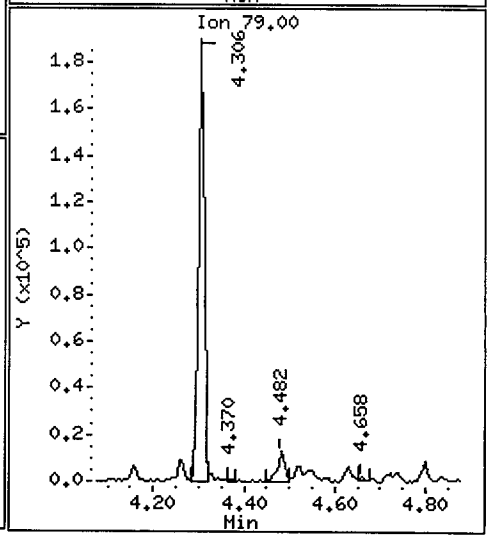












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

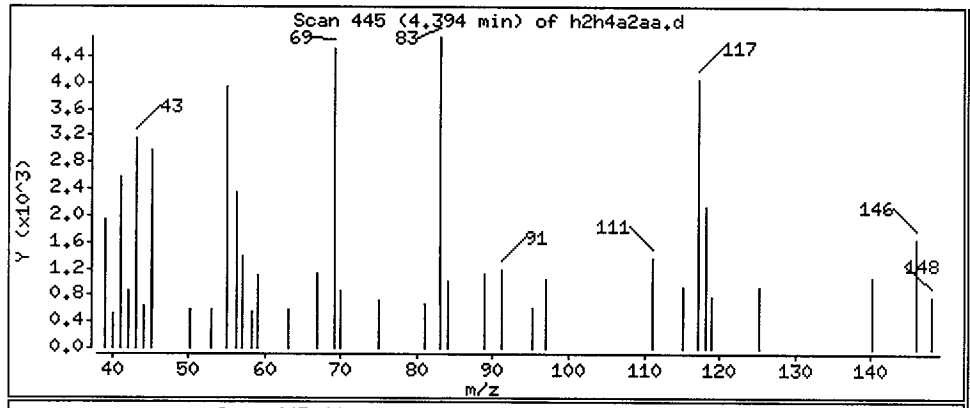
Operator: 60841

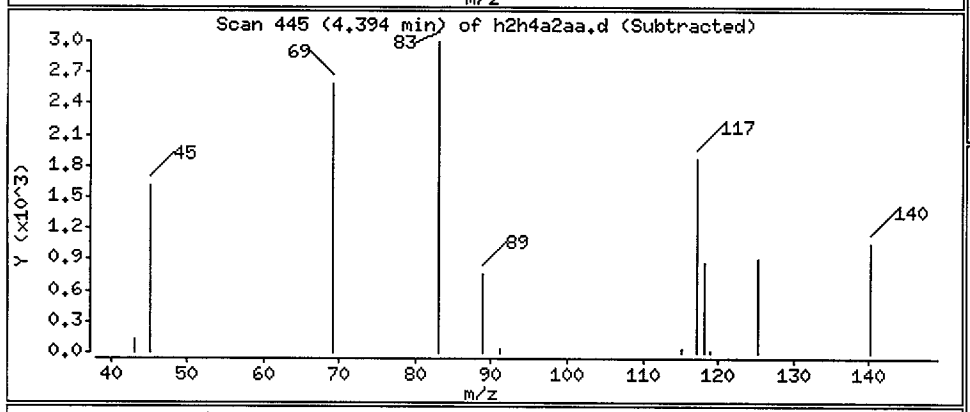
Column phase: ZB-5

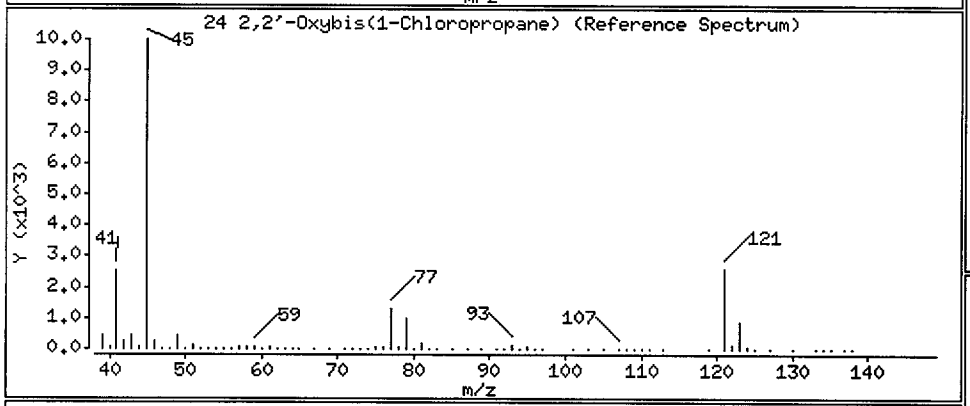
Column diameter: 0.25

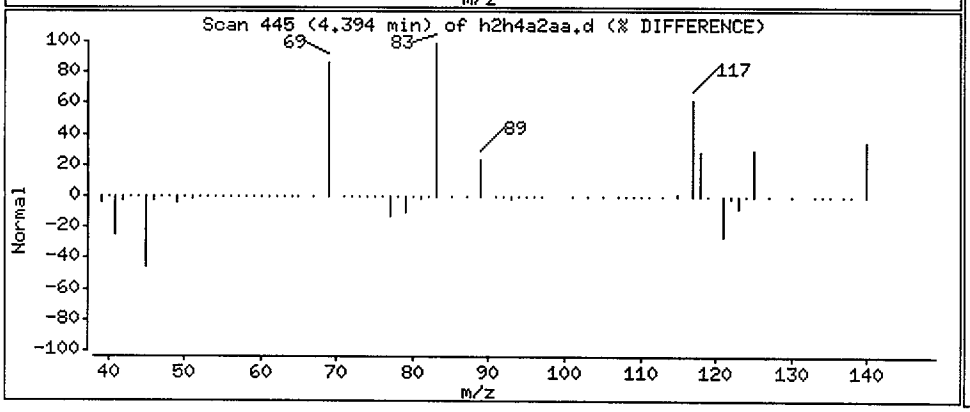
24 2,2'-Oxybis(1-Chloropropane)

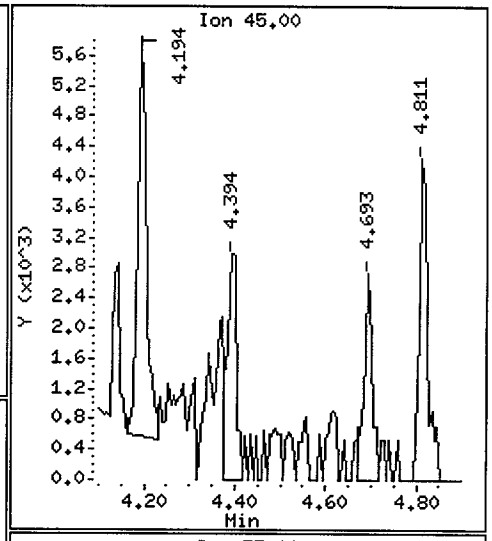
Concentration: 122 ug/Kg

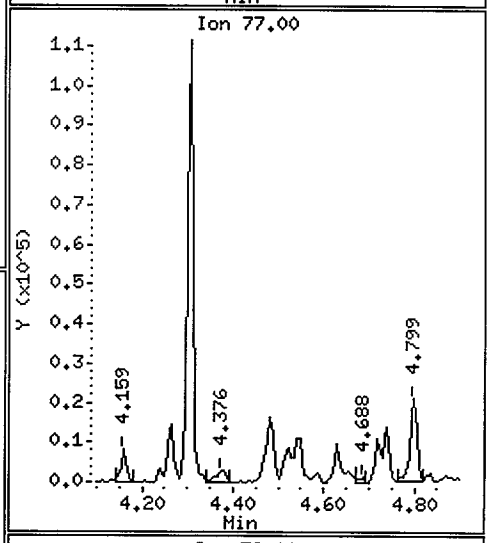


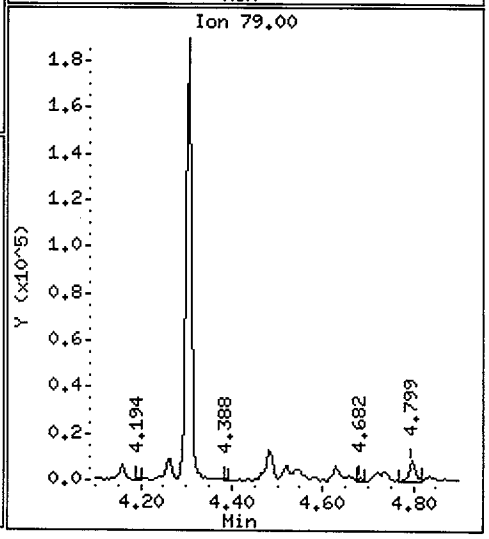












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

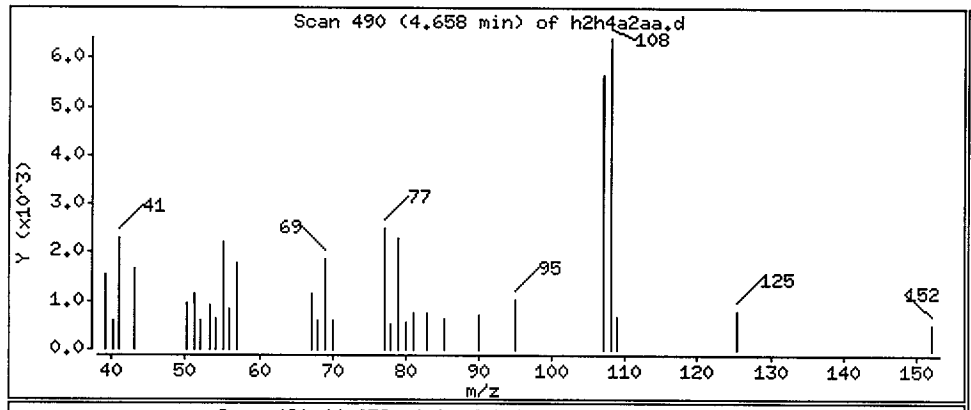
Operator: 60841

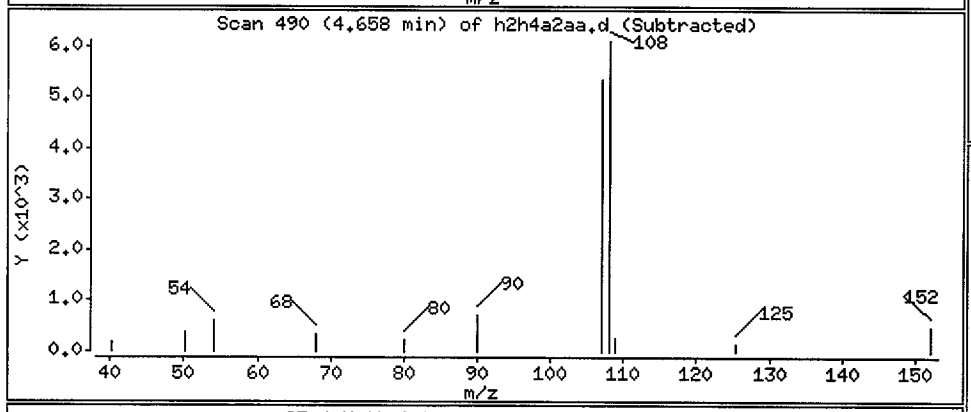
Column phase: ZB-5

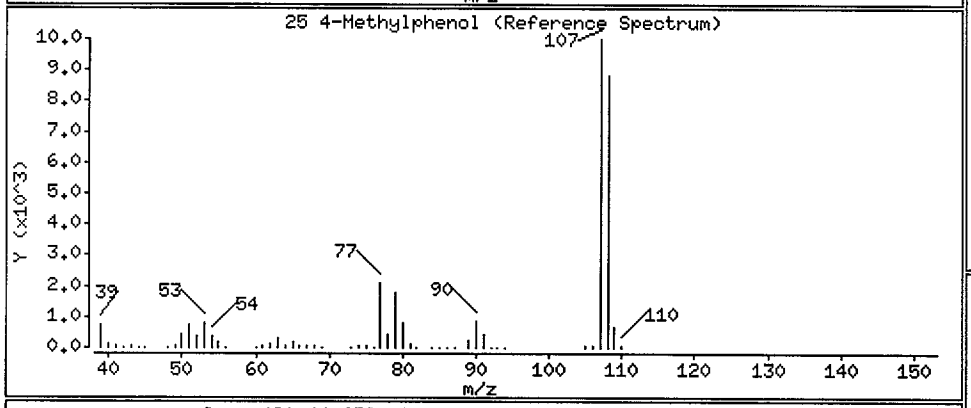
Column diameter: 0.25

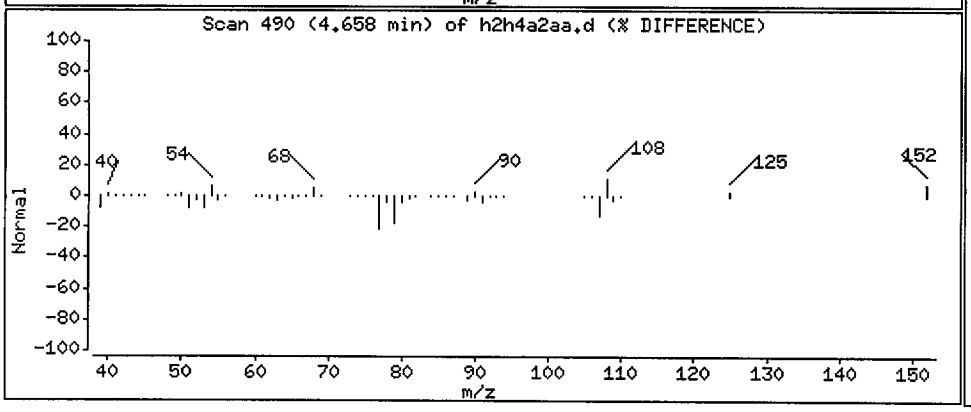
25 4-Methylphenol

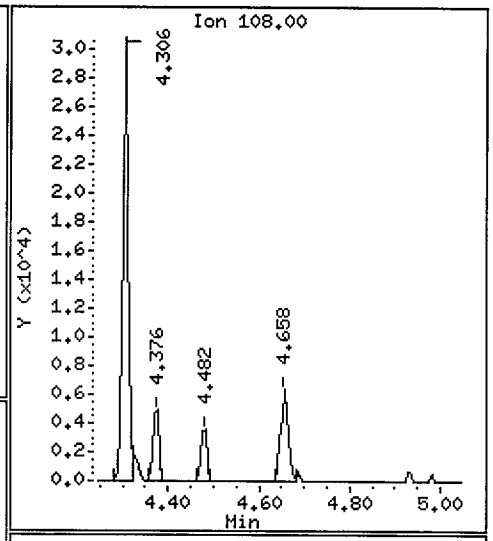
Concentration: 310 ug/Kg

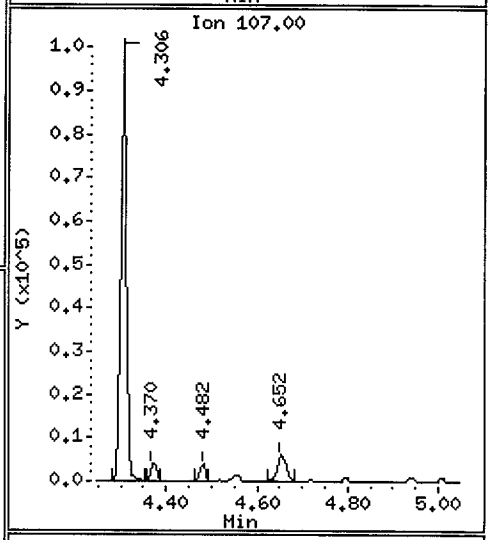


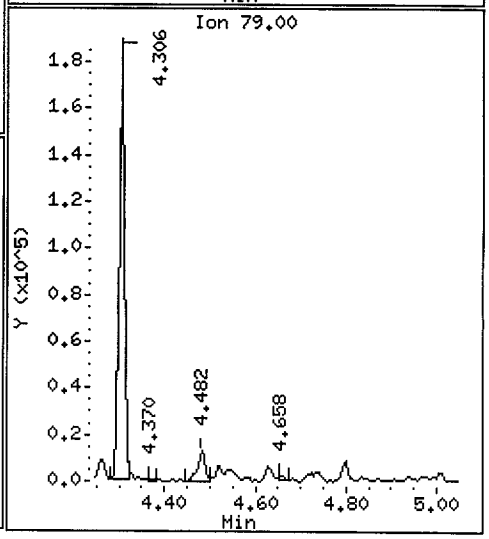












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

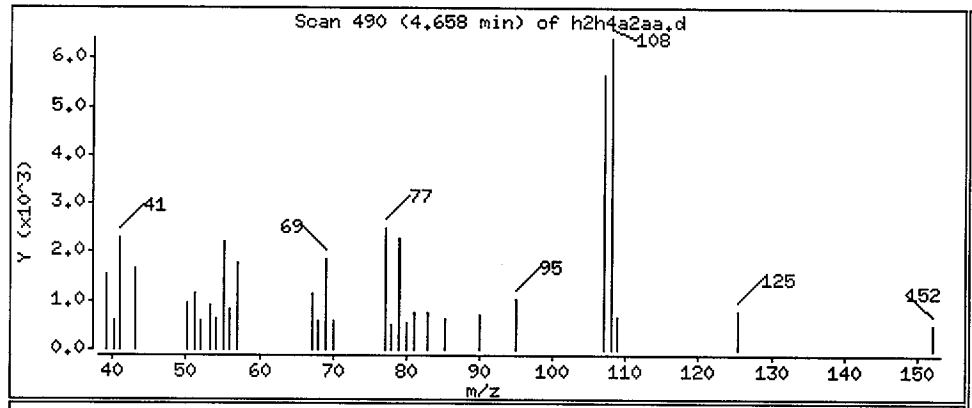
Operator: 60841

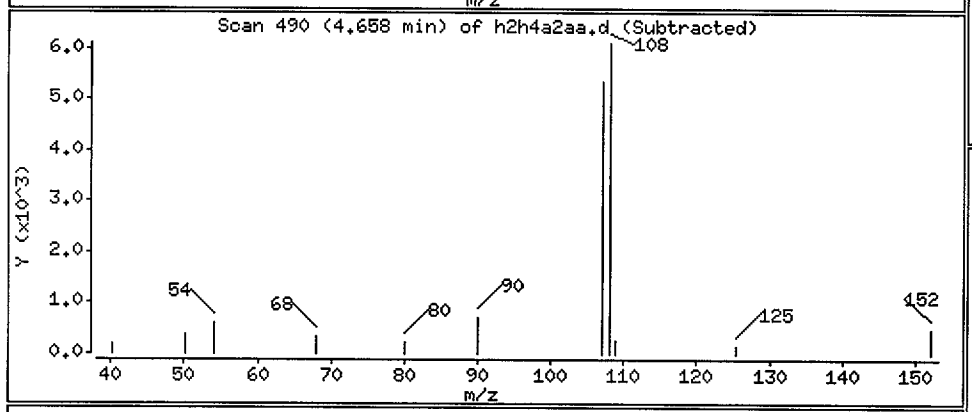
Column phase: ZB-5

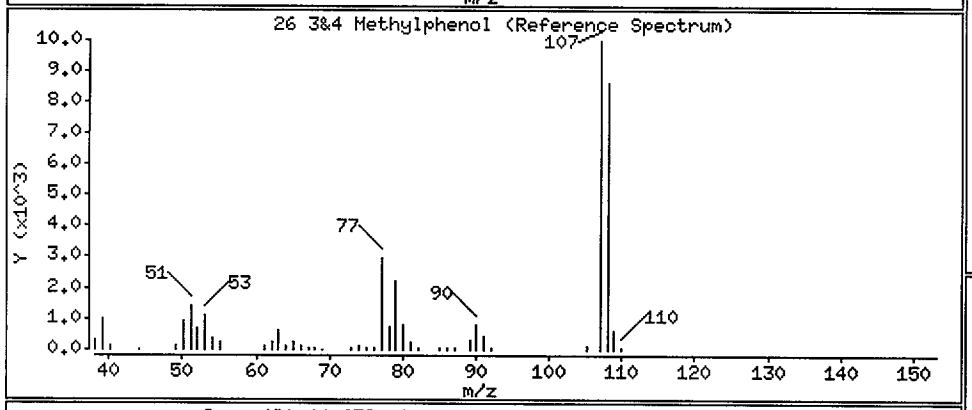
Column diameter: 0.25

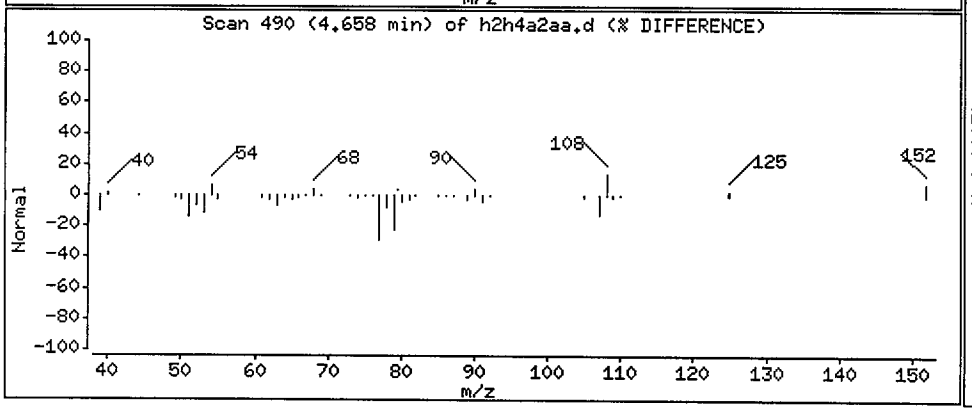
26 3&4 Methylphenol

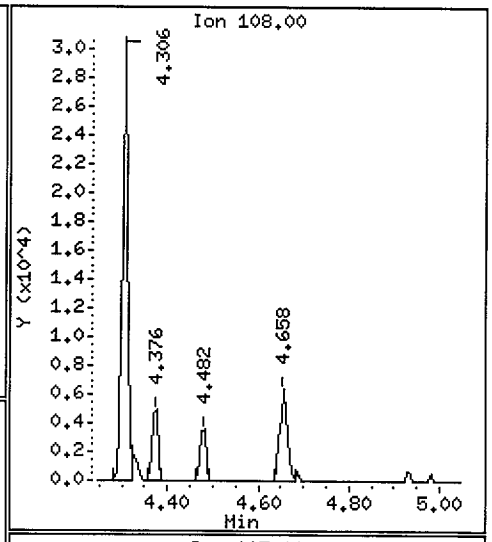
Concentration: 310 ug/Kg

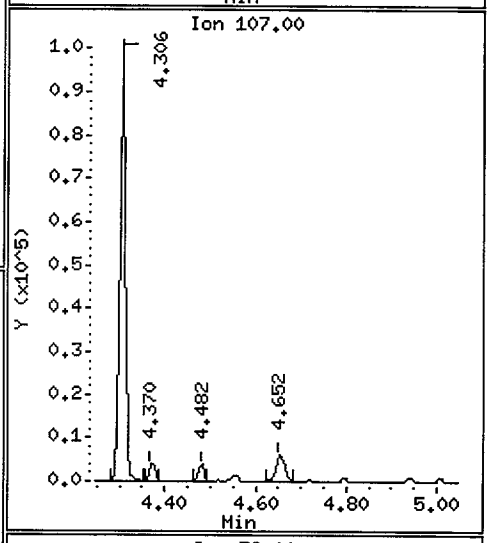


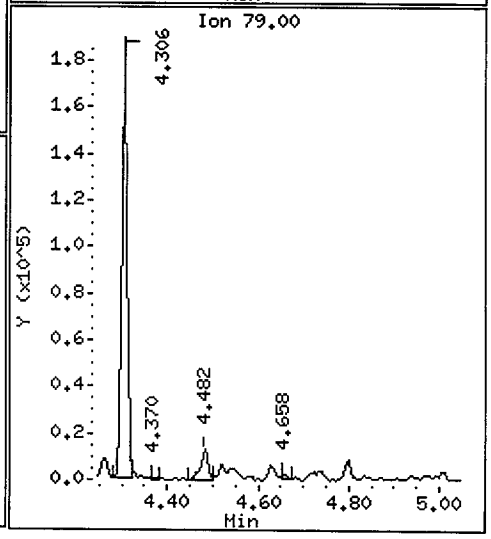












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

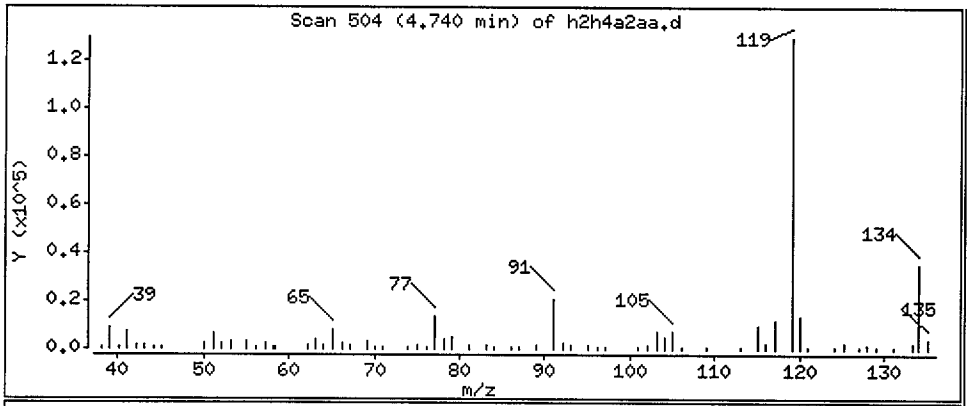
Operator: 60841

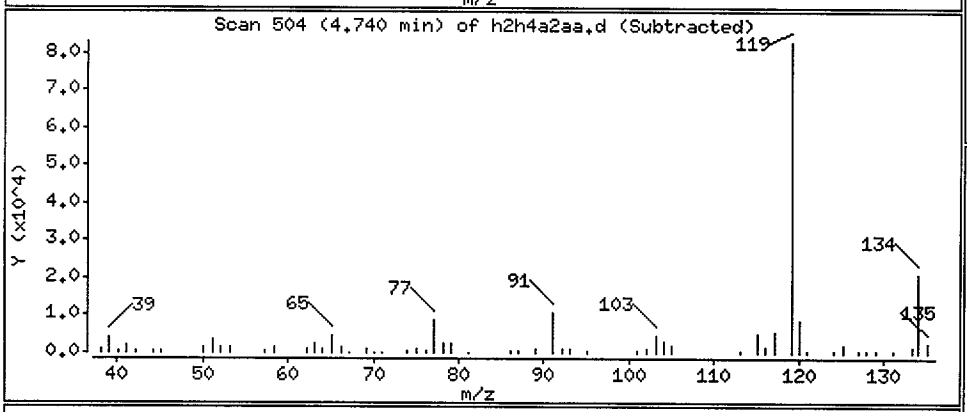
Column phase: ZB-5

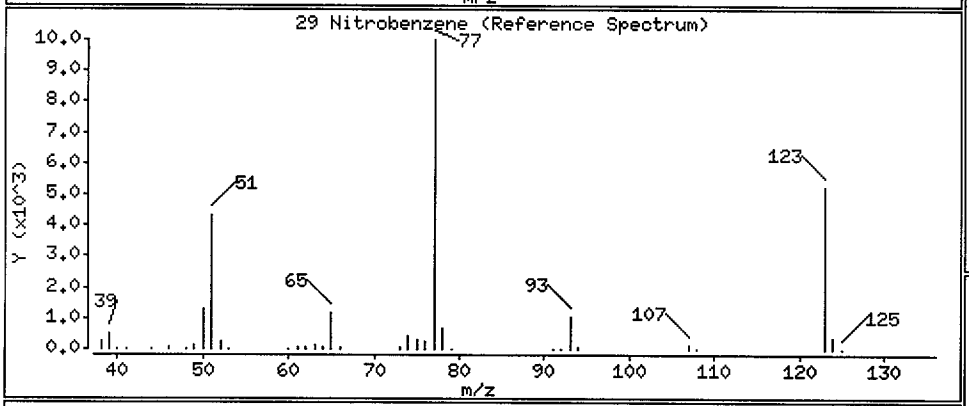
Column diameter: 0.25

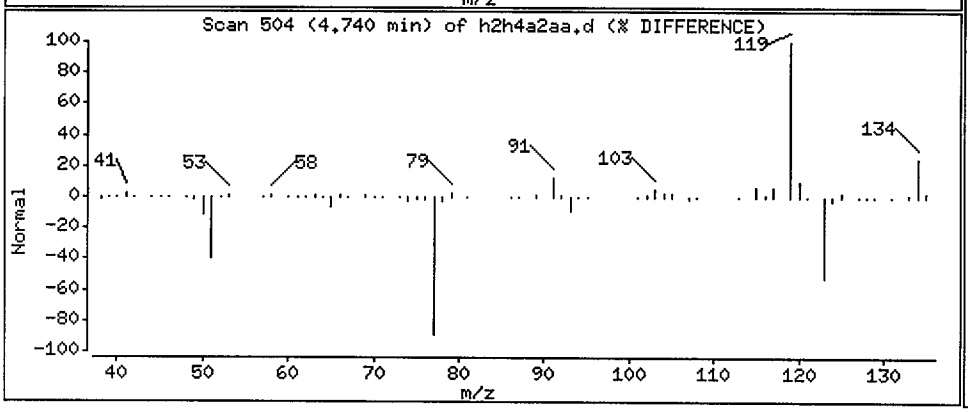
29 Nitrobenzene

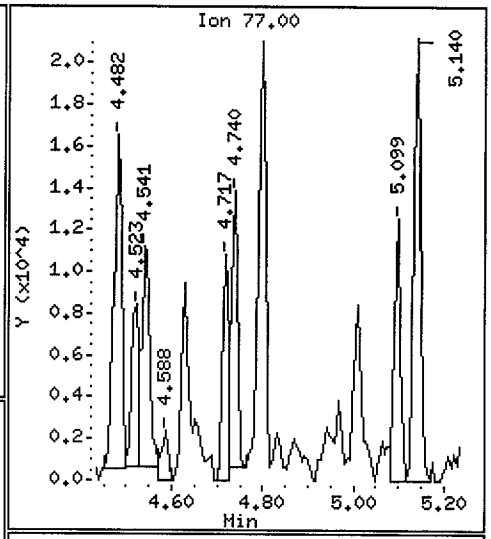
Concentration: 512 ug/Kg

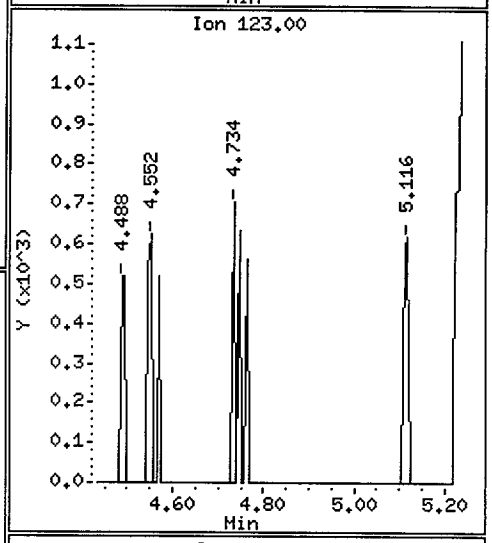


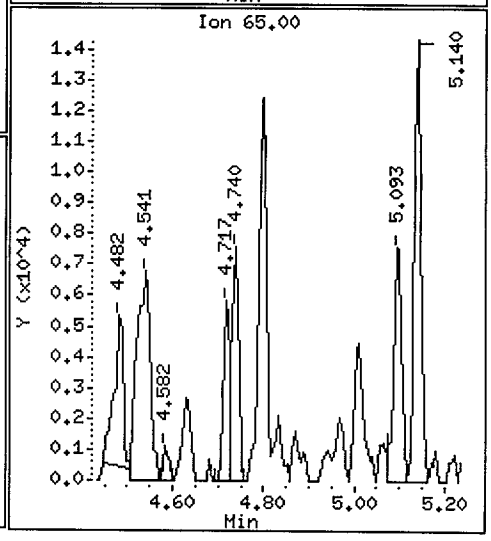












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

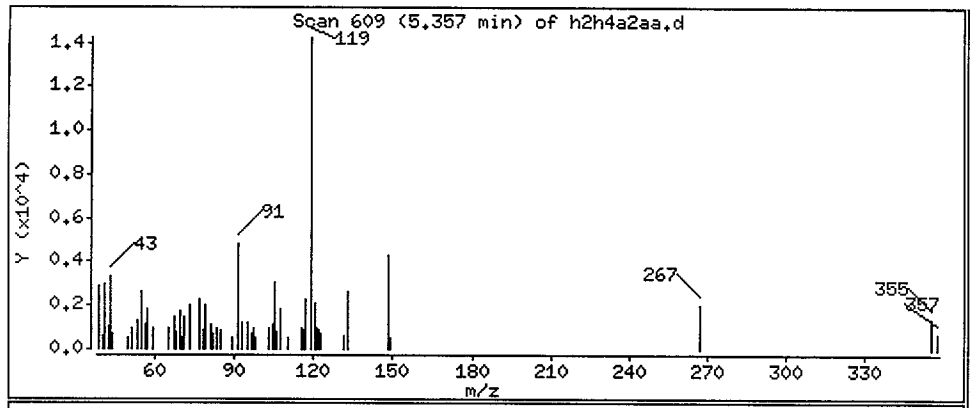
Operator: 60841

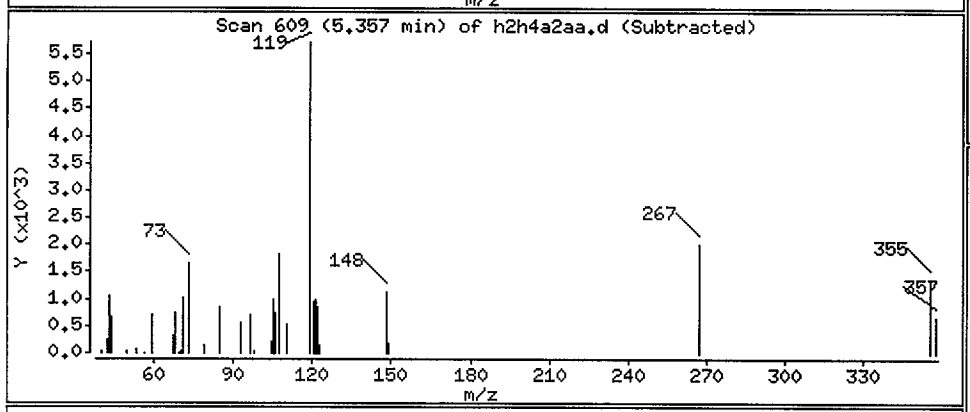
Column phase: ZB-5

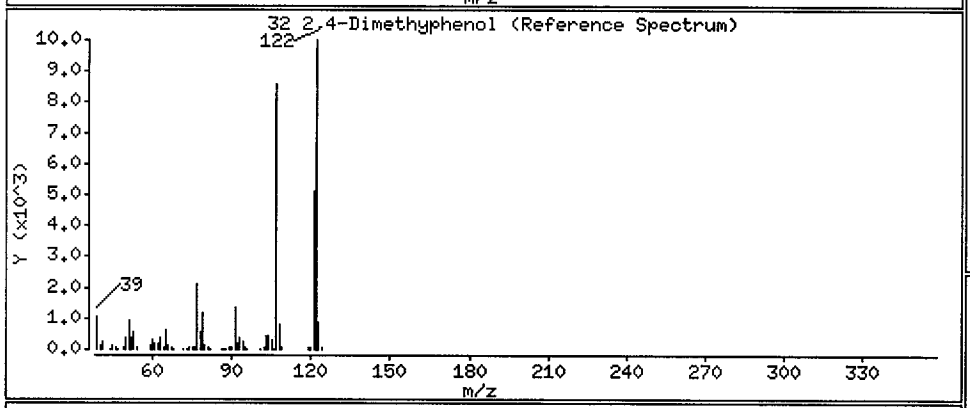
Column diameter: 0.25

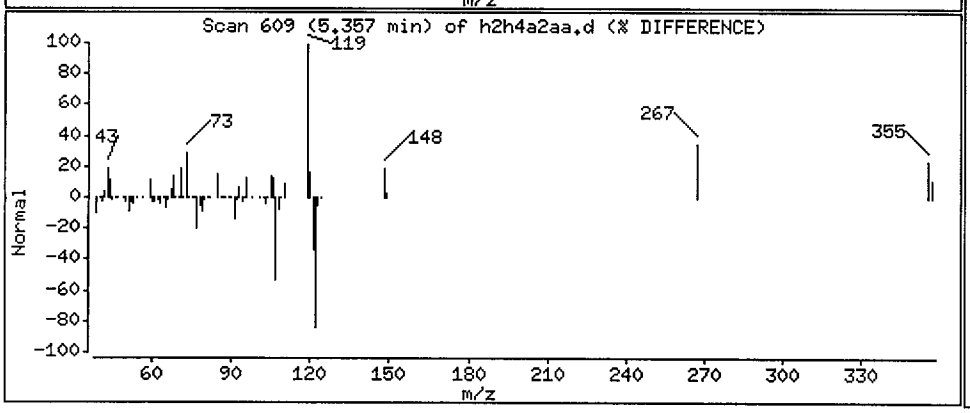
32 2,4-Dimethyphenol

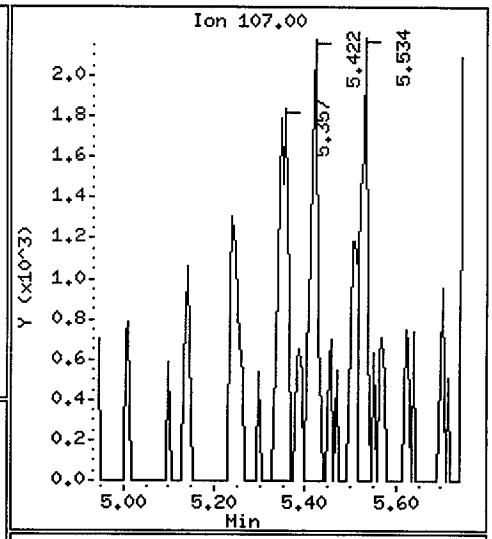
Concentration: 110 ug/Kg

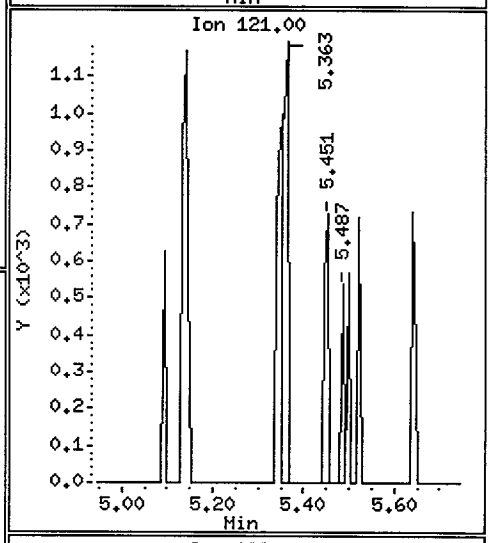


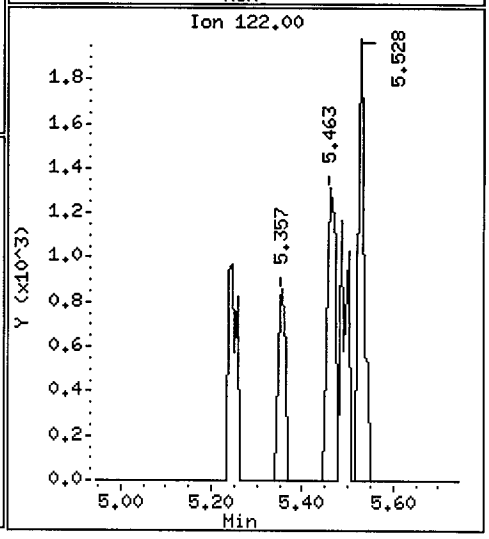












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

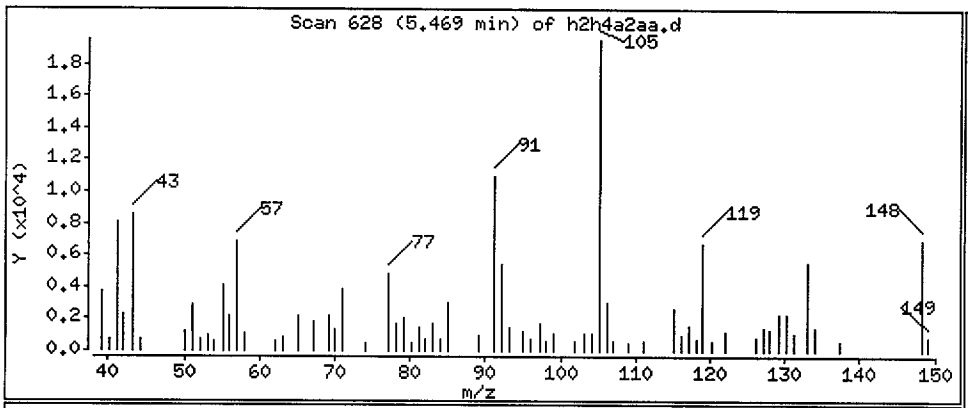
Operator: 60841

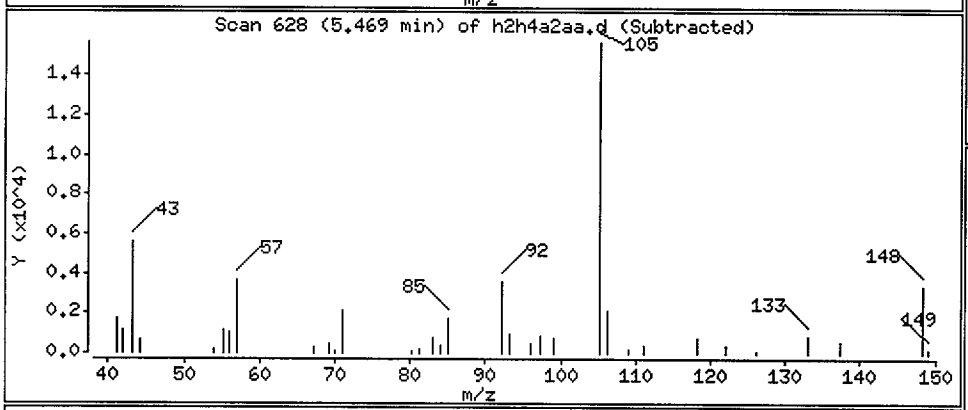
Column phase: ZB-5

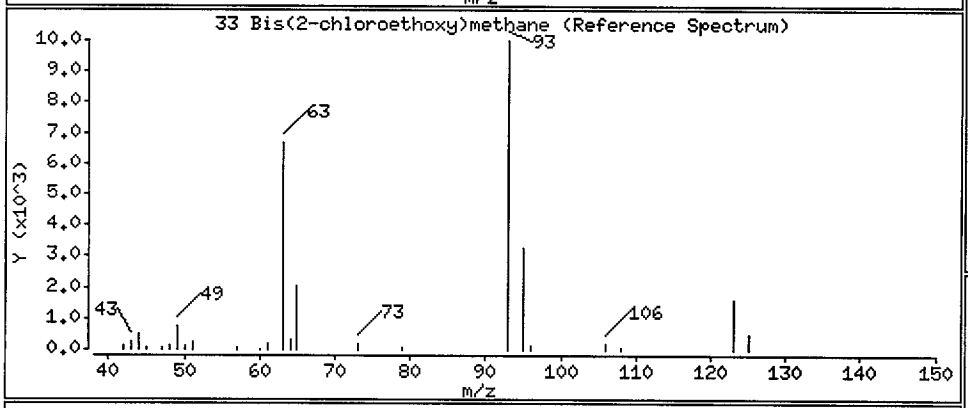
Column diameter: 0.25

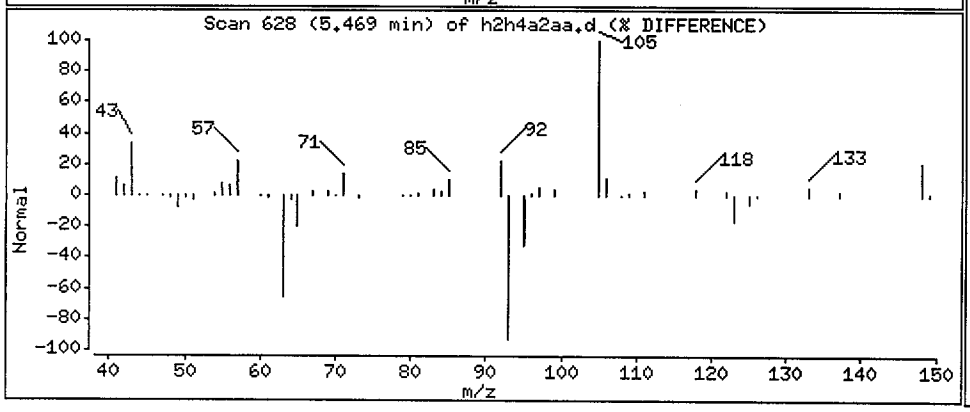
33 Bis(2-chloroethoxy)methane

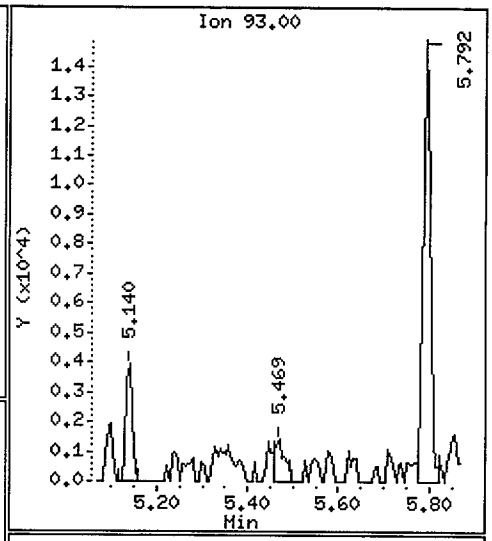
Concentration: 88.8 ug/Kg

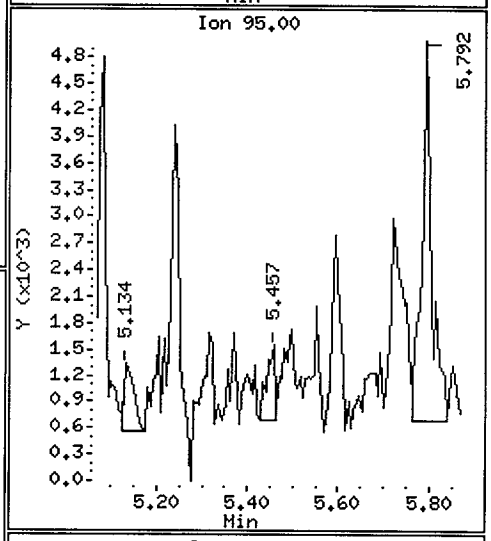


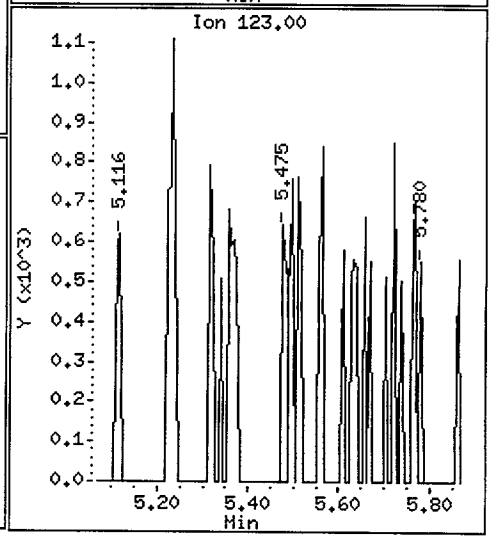












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

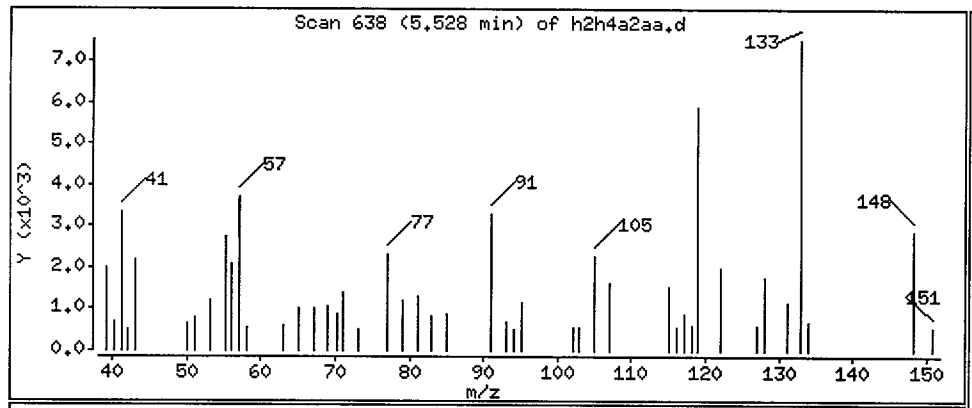
Operator: 60841

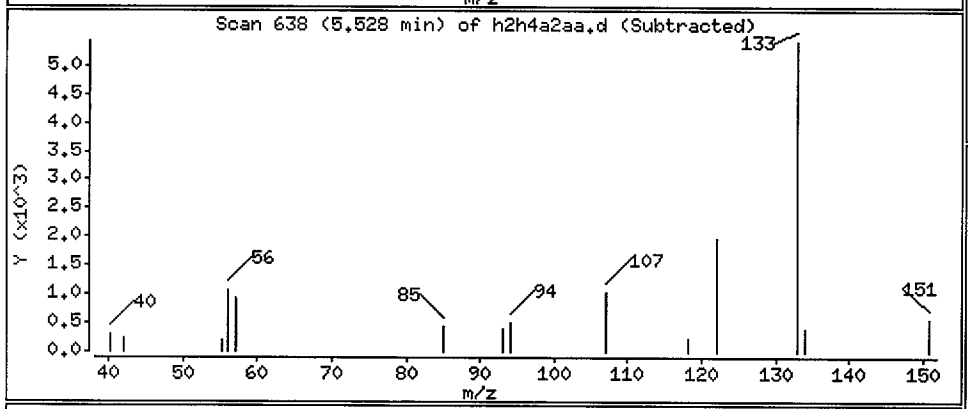
Column phase: ZB-5

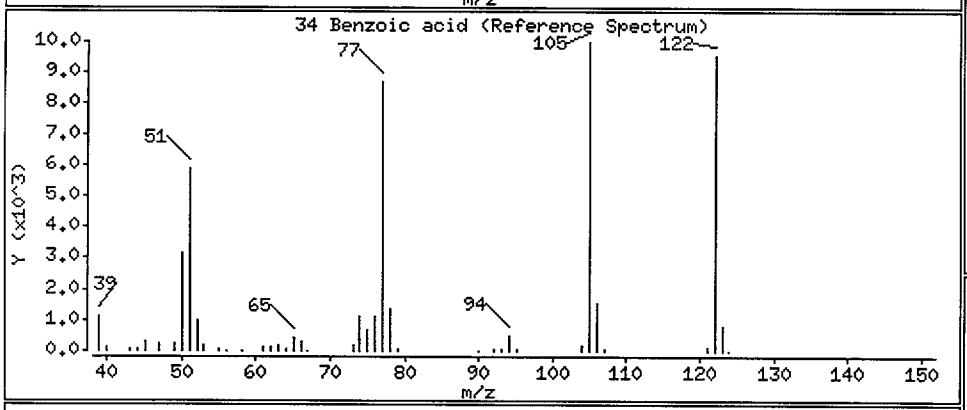
Column diameter: 0.25

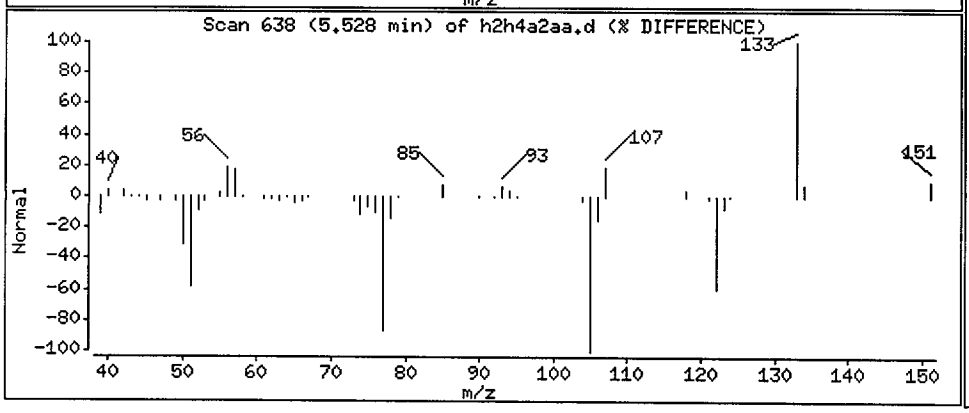
34 Benzoic acid

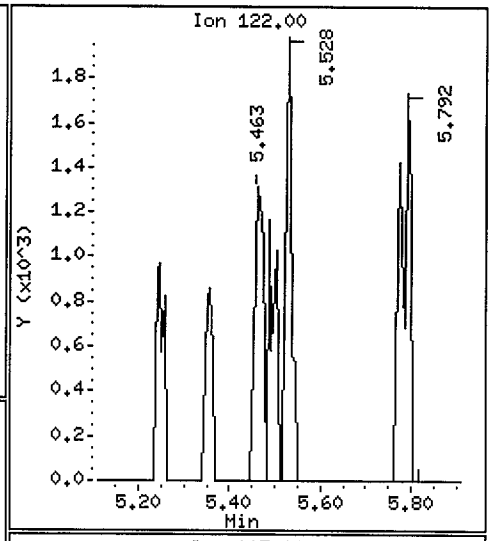
Concentration: 149 ug/Kg

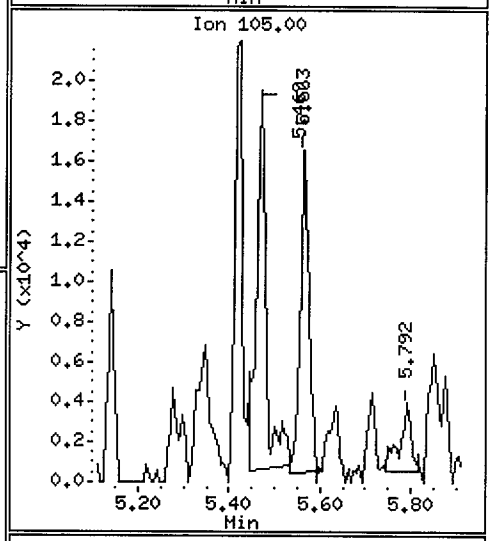


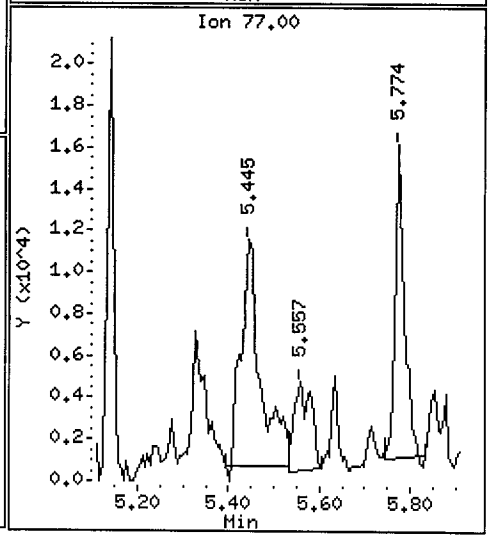












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

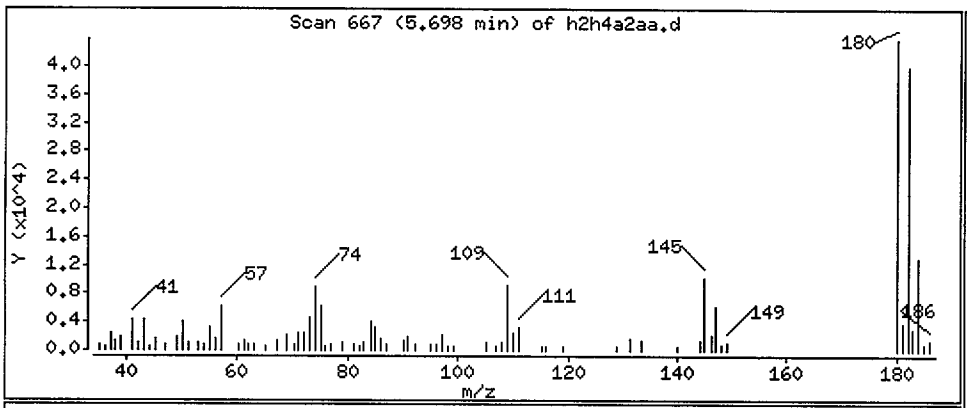
Operator: 60841

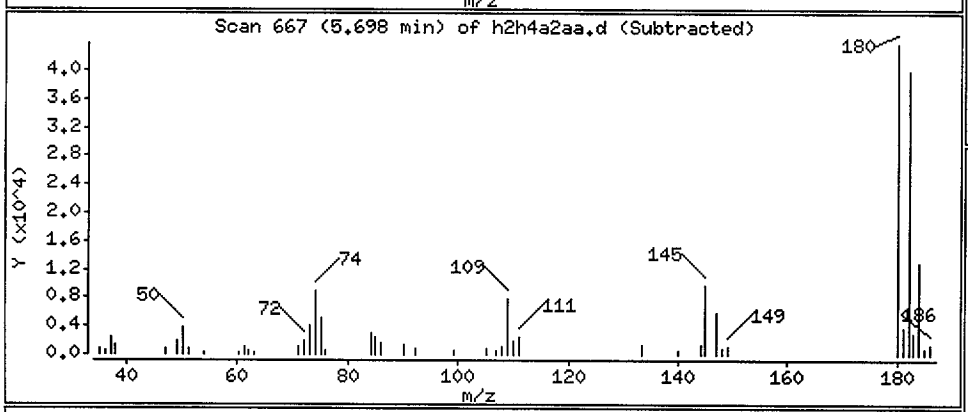
Column phase: ZB-5

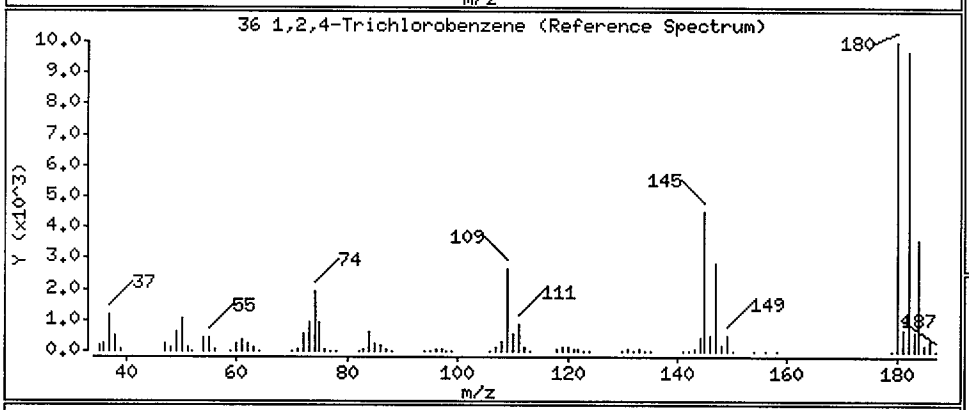
Column diameter: 0.25

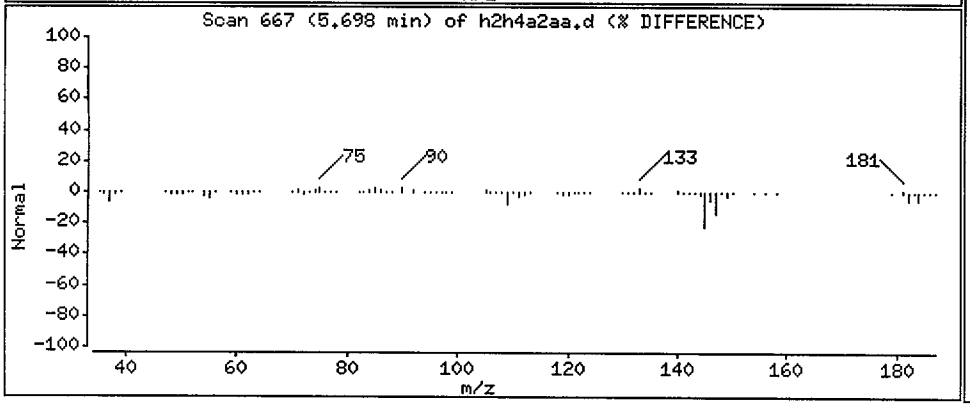
36 1,2,4-Trichlorobenzene

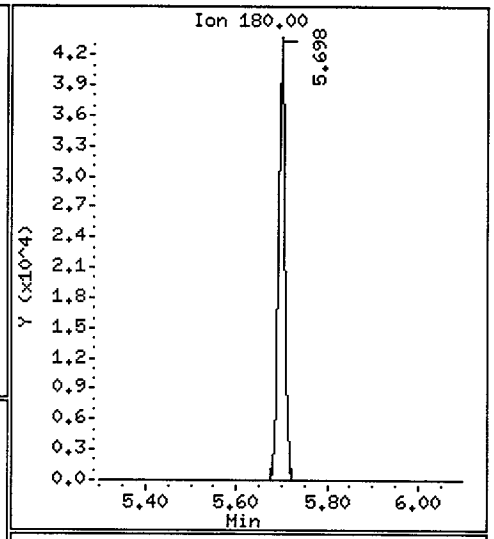
Concentration: 1970 ug/Kg

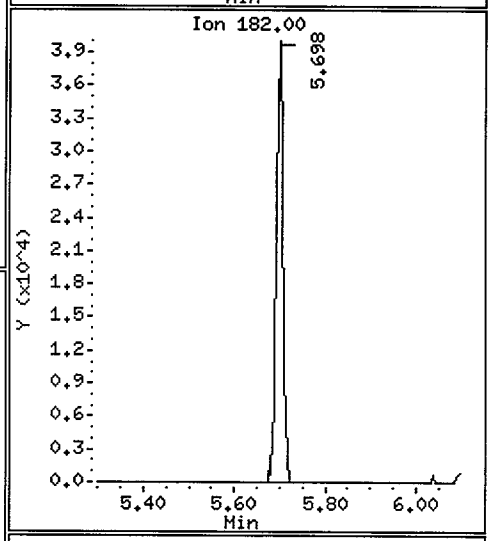


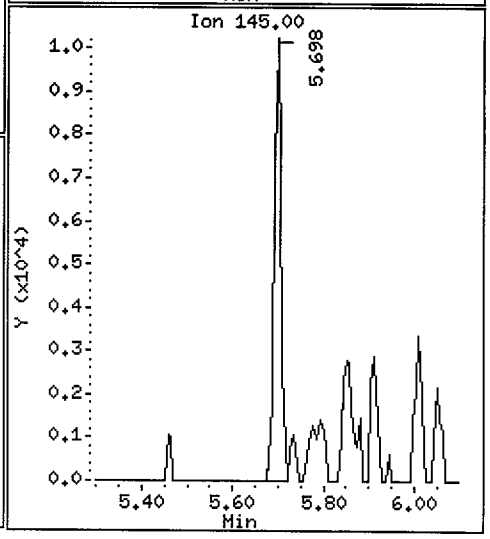












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

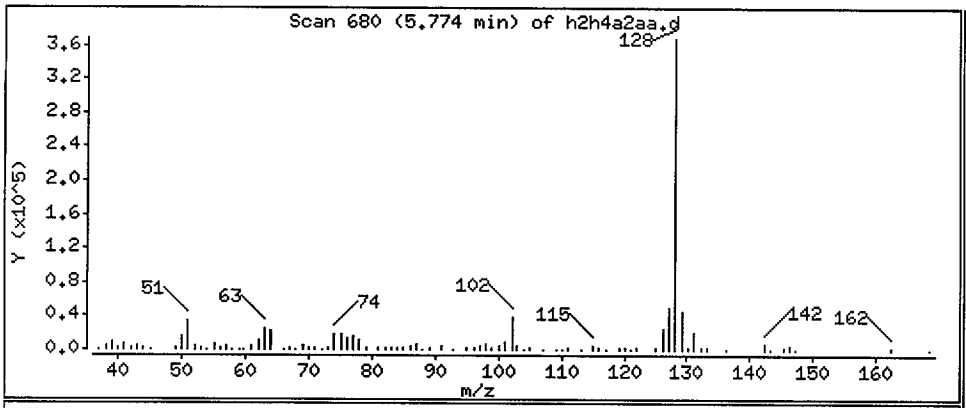
Operator: 60841

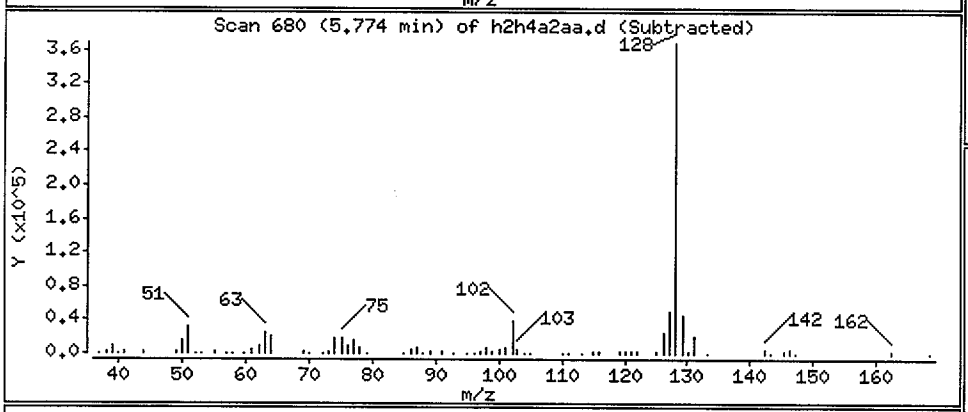
Column phase: ZB-5

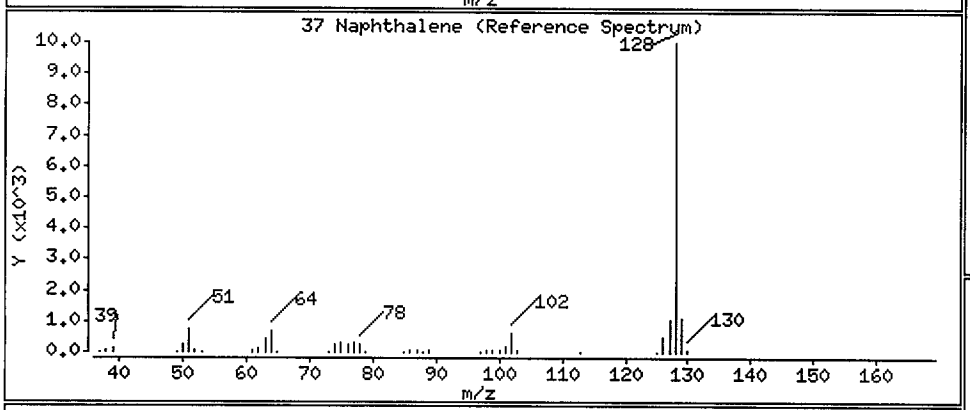
Column diameter: 0.25

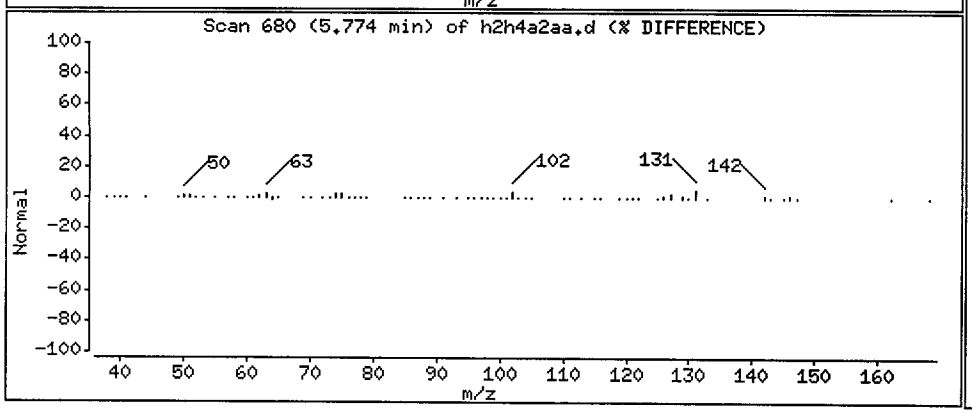
37 Naphthalene

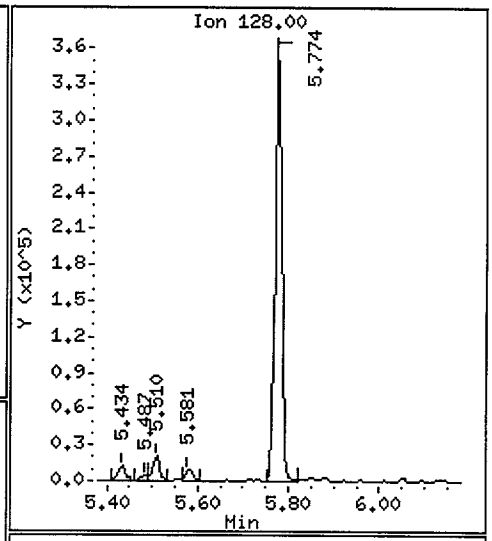
Concentration: 5880 ug/Kg

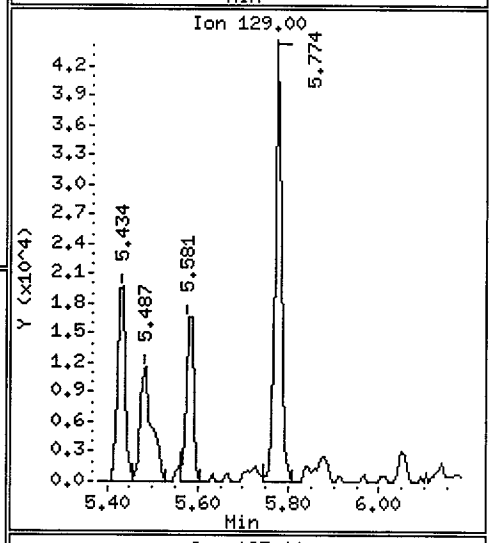


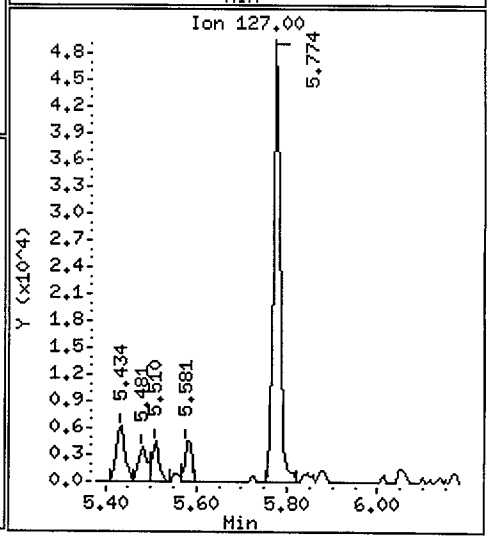












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

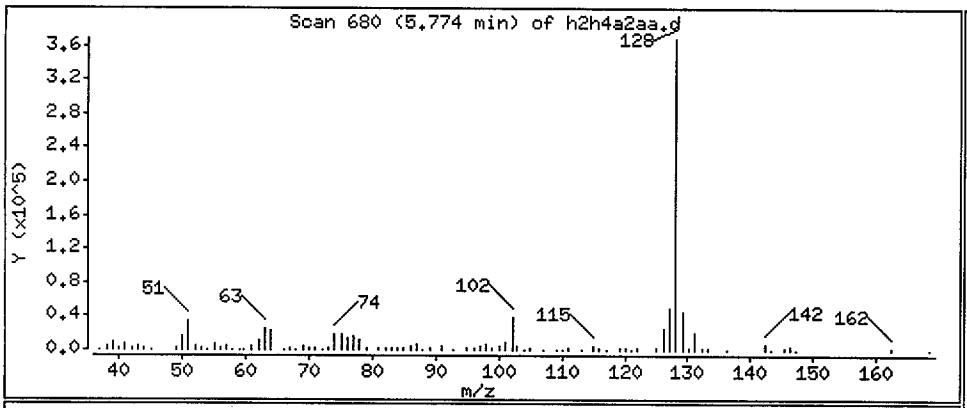
Operator: 60841

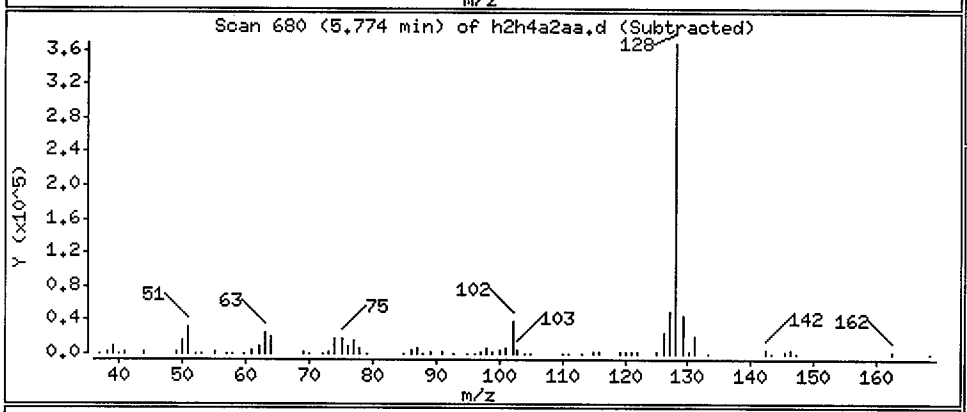
Column phase: ZB-5

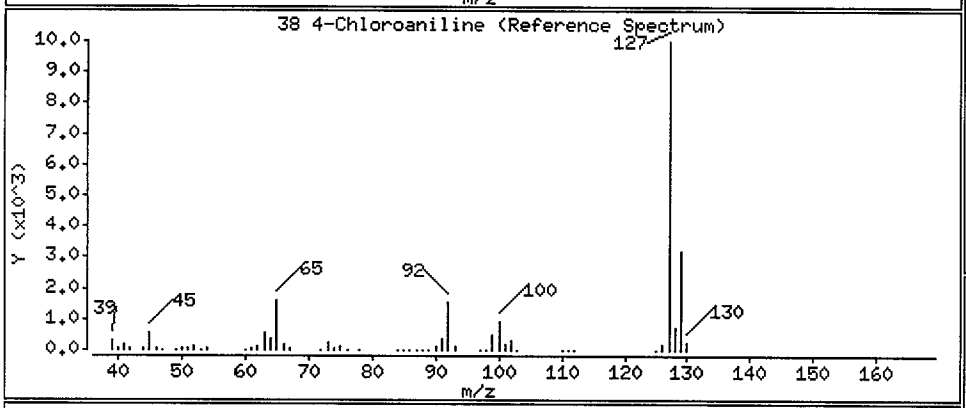
Column diameter: 0.25

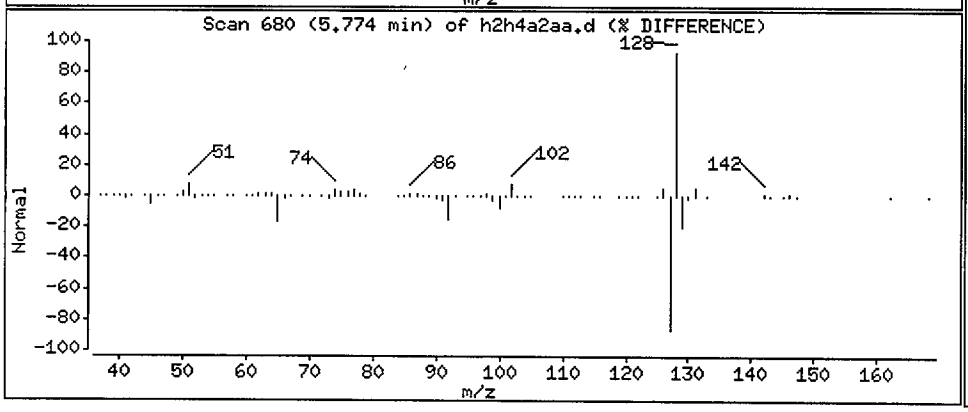
38 4-Chloroaniline

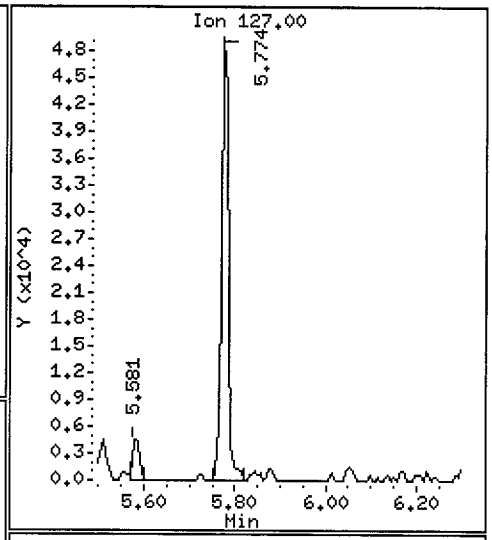
Concentration: 1880 ug/Kg

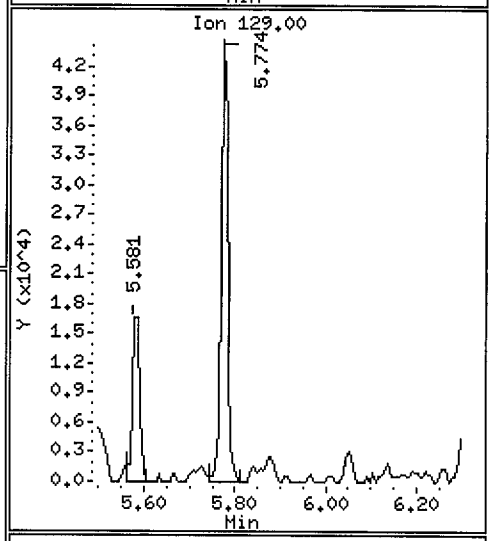


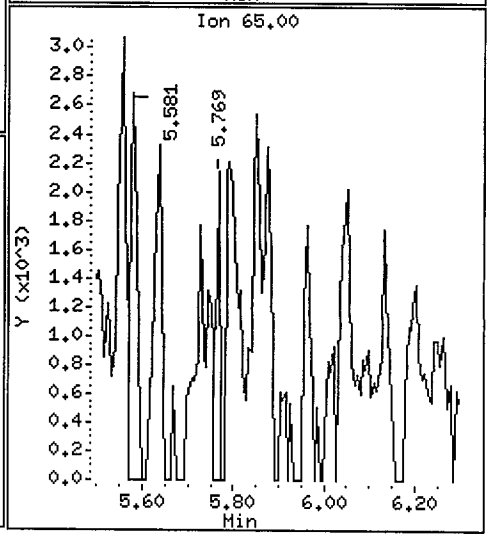












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

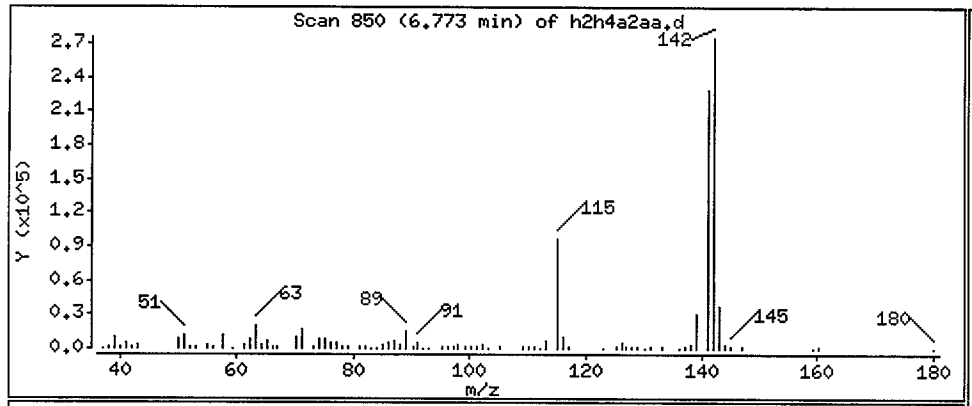
Operator: 60841

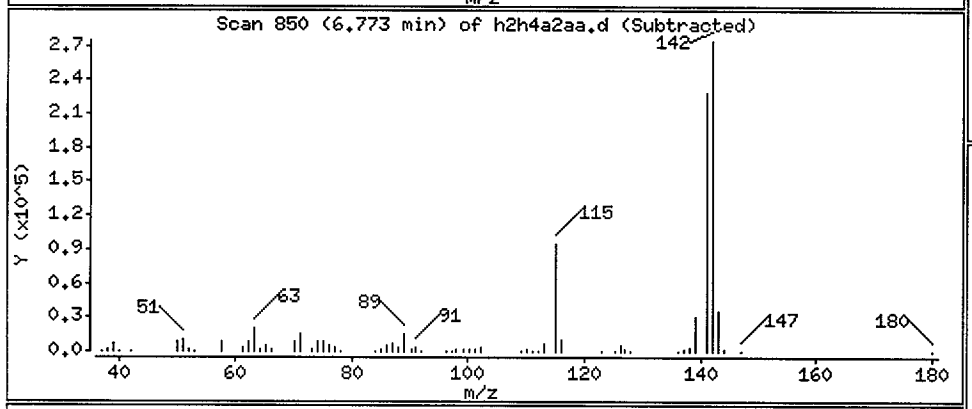
Column phase: ZB-5

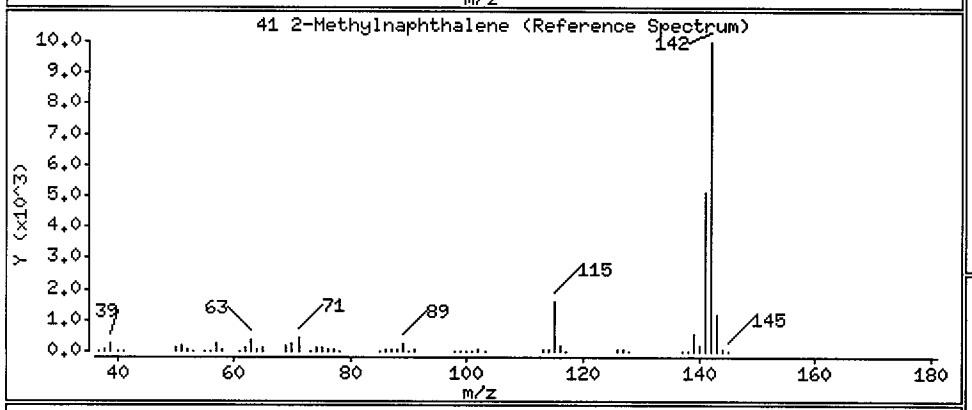
Column diameter: 0.25

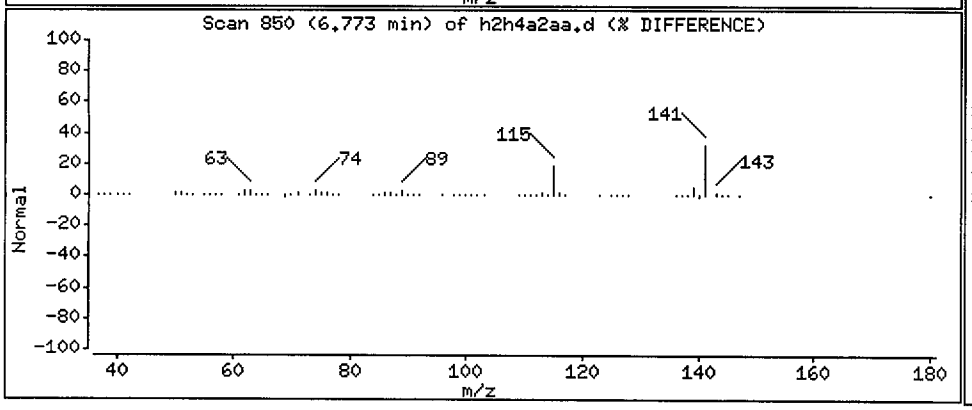
41 2-Methylnaphthalene

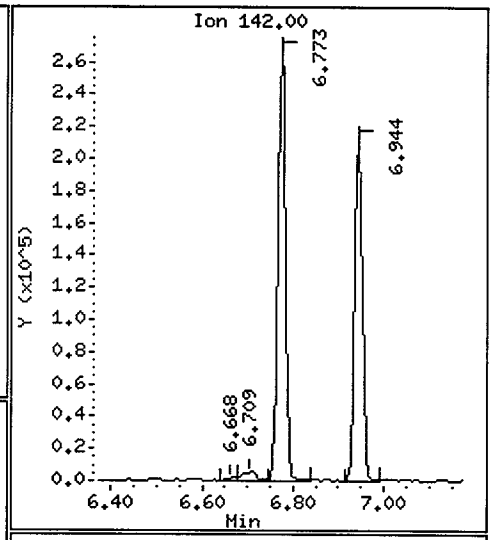
Concentration: 7600 ug/Kg

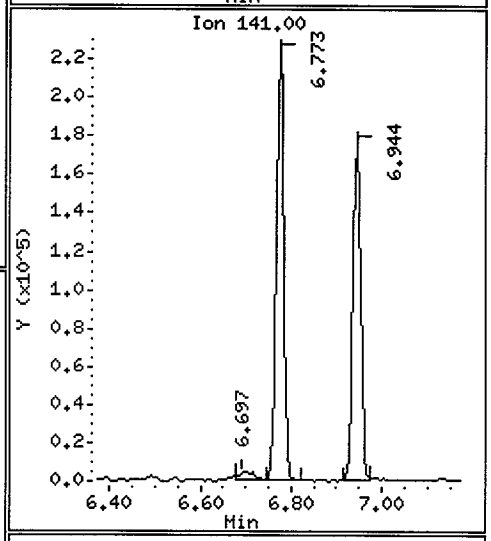


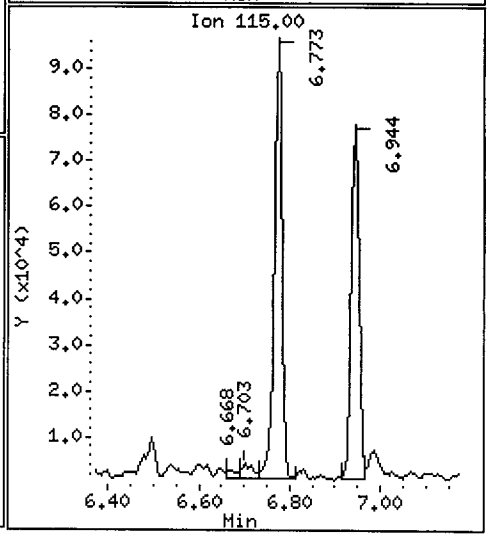












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

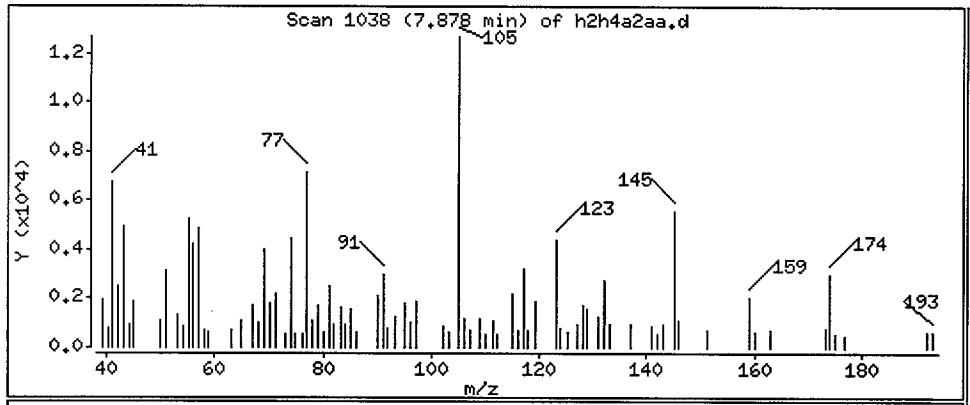
Operator: 60841

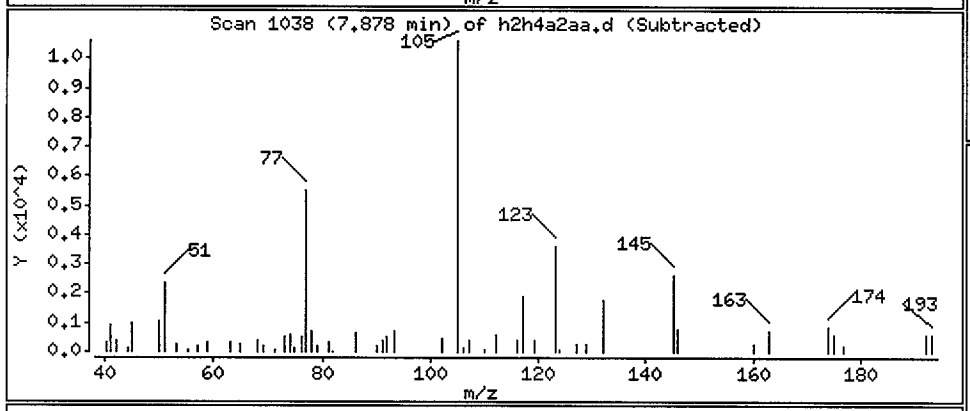
Column phase: ZB-5

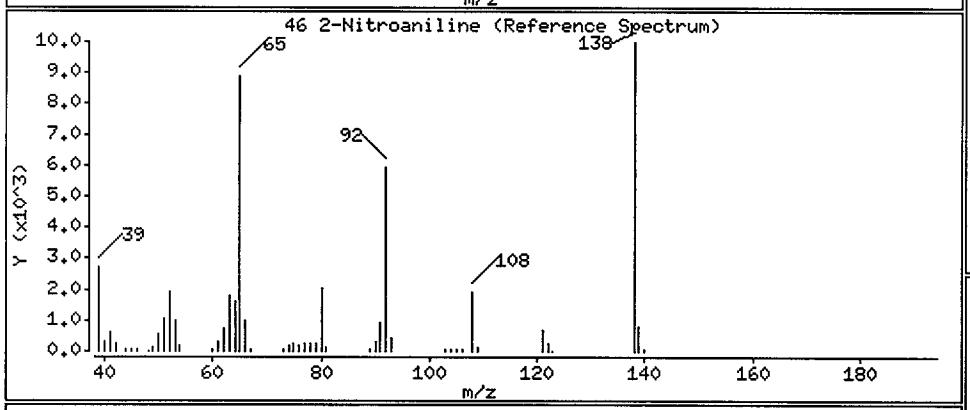
Column diameter: 0.25

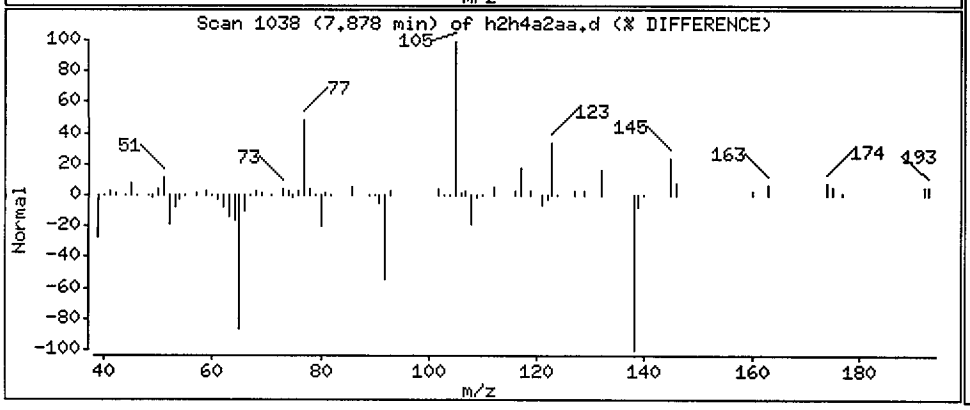
46 2-Nitroaniline

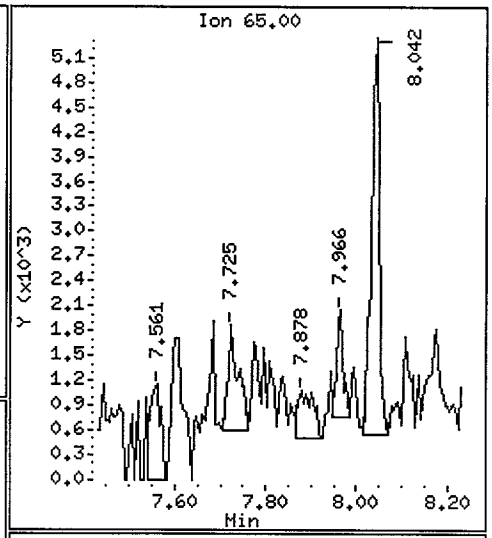
Concentration: 89.5 ug/Kg

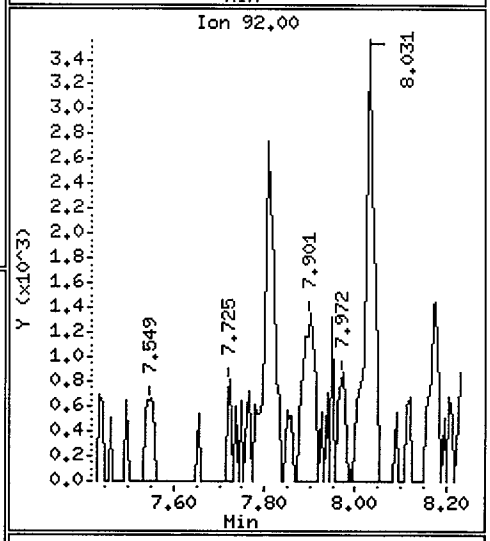


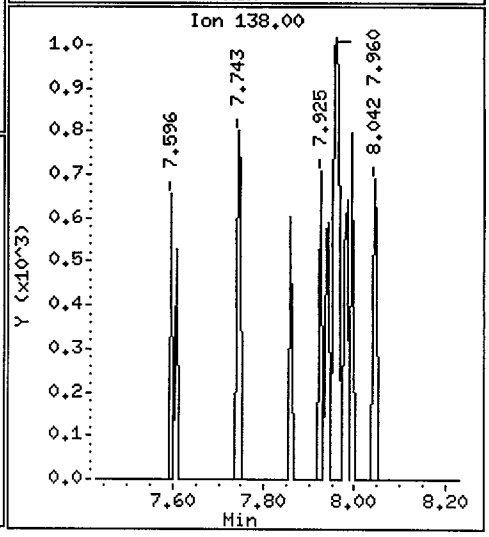












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

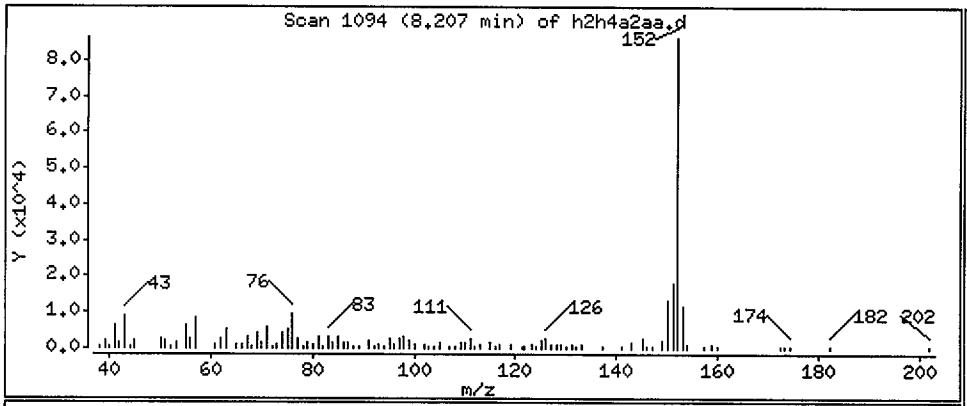
Operator: 60841

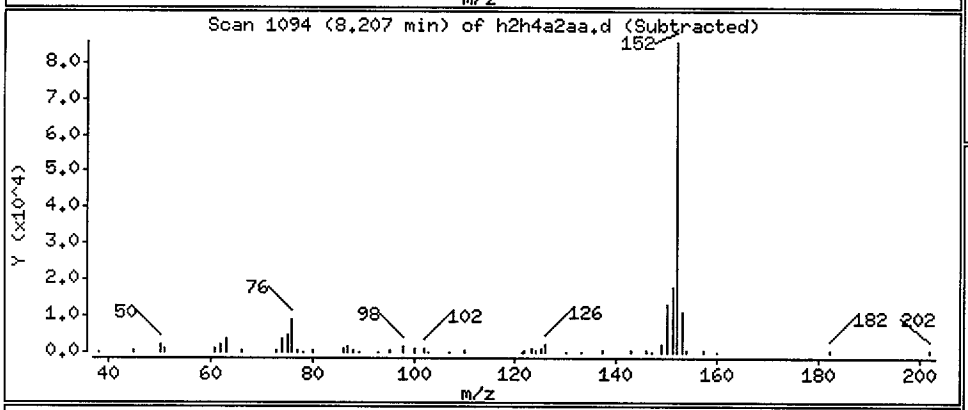
Column phase: ZB-5

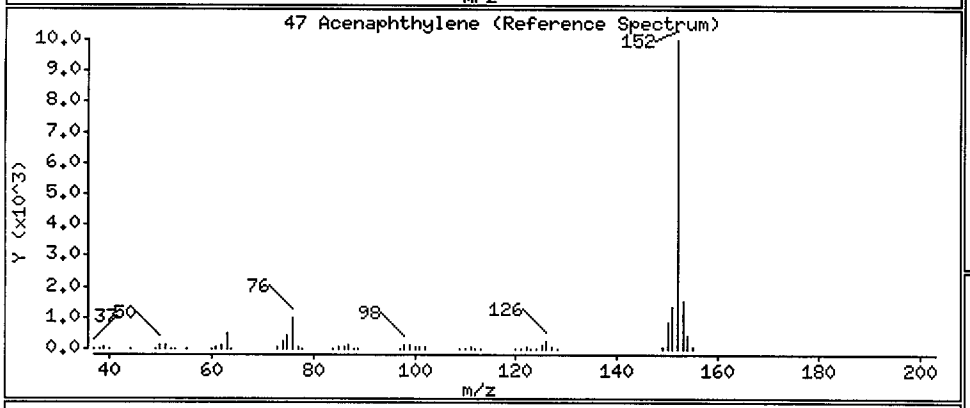
Column diameter: 0.25

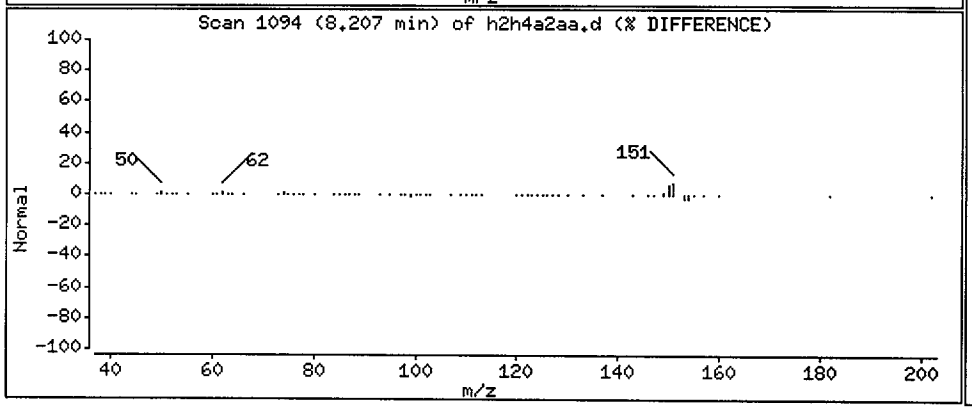
47 Acenaphthylene

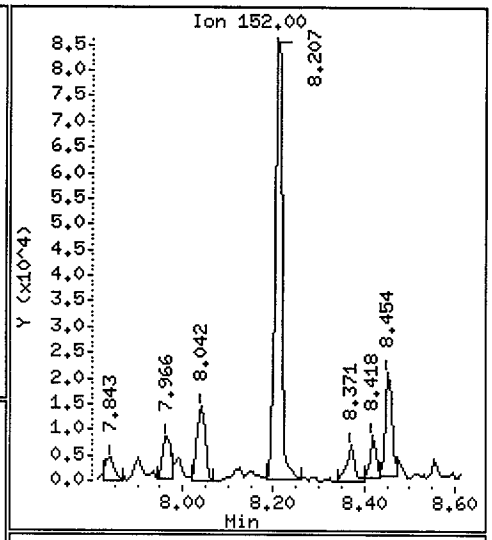
Concentration: 1180 ug/Kg

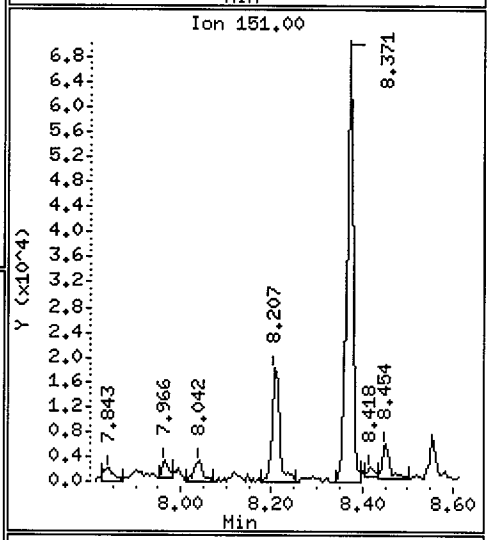


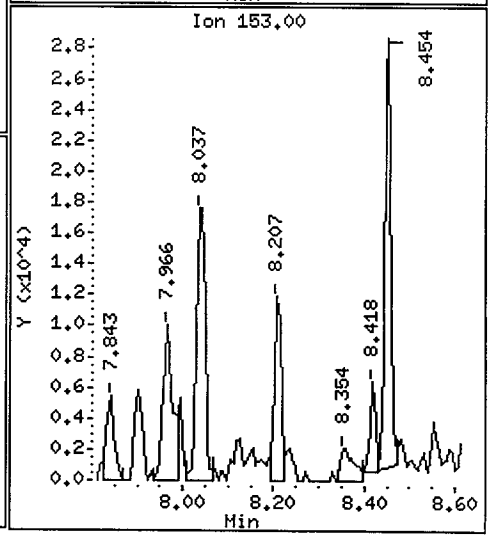












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

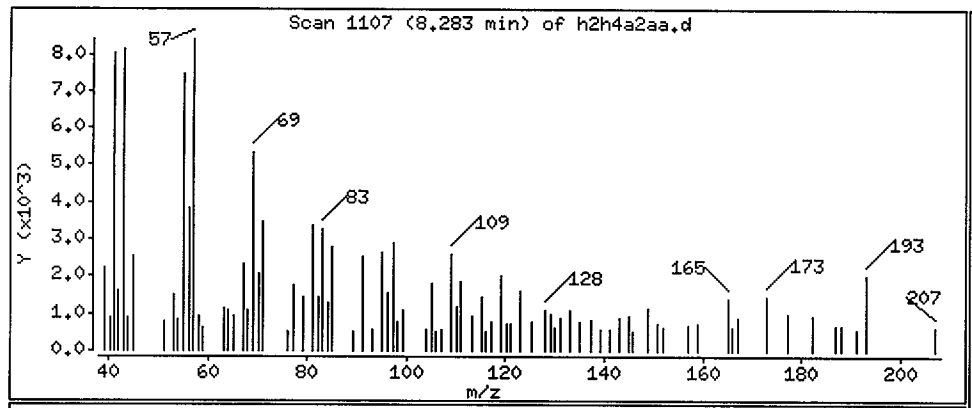
Operator: 60841

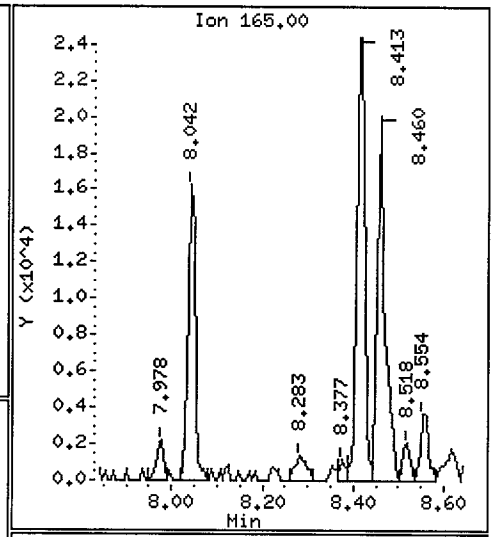
Column phase: ZB-5

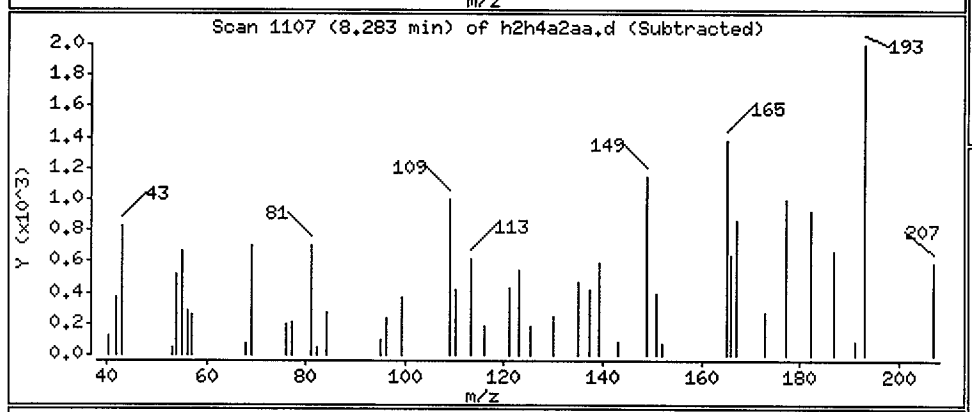
Column diameter: 0.25

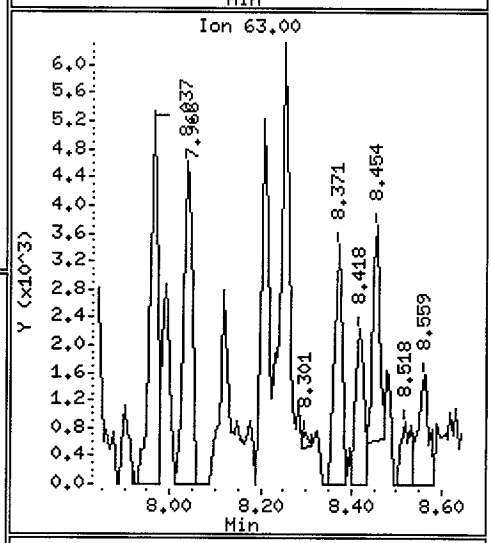
49 2,6-Dinitrotoluene

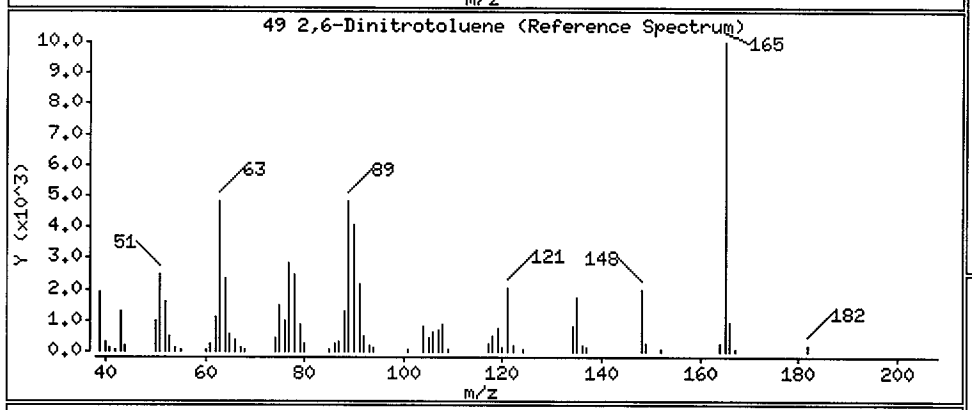
Concentration: 206 ug/Kg

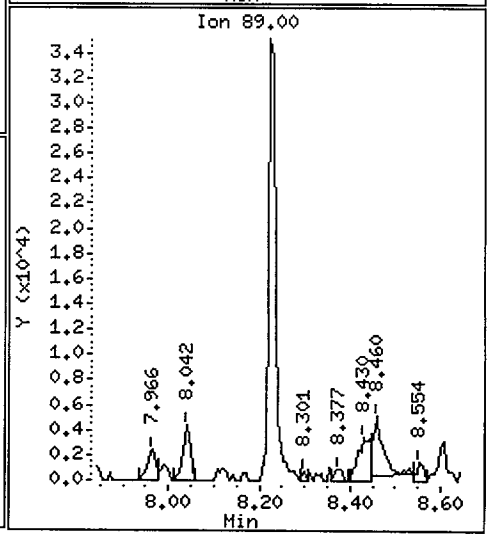


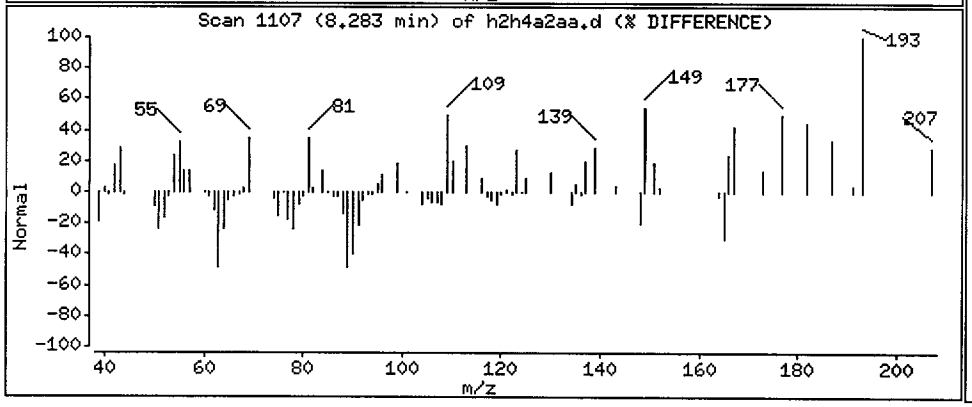












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

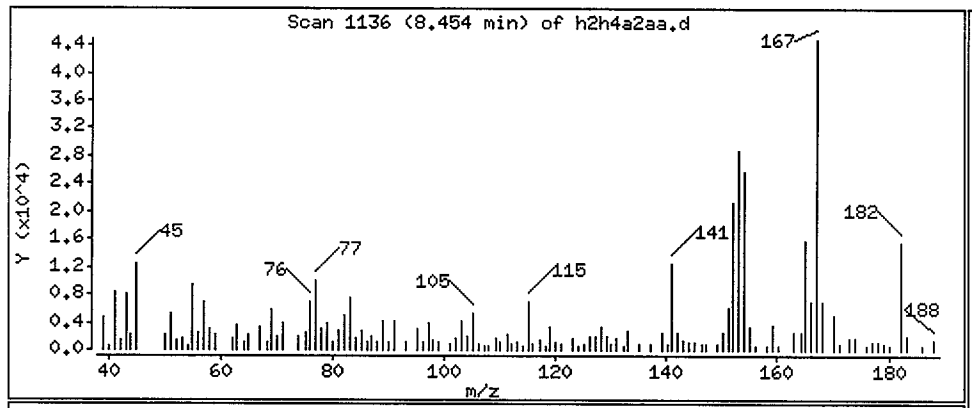
Operator: 60841

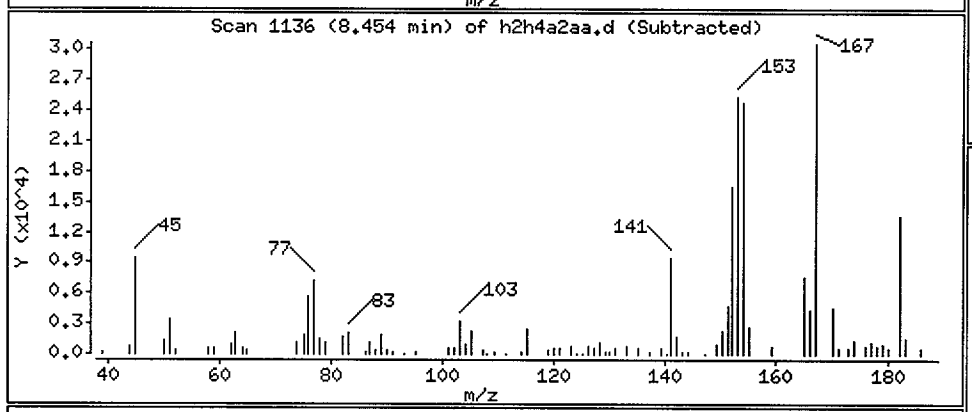
Column phase: ZB-5

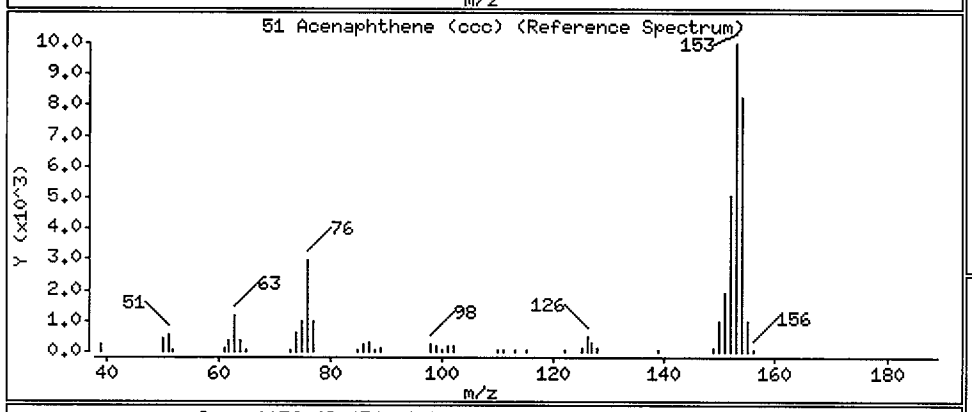
Column diameter: 0.25

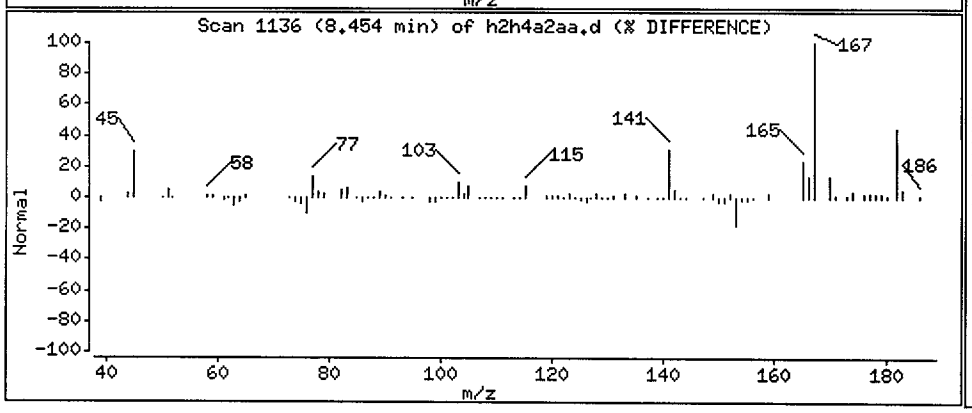
51 Acenaphthene (ccc)

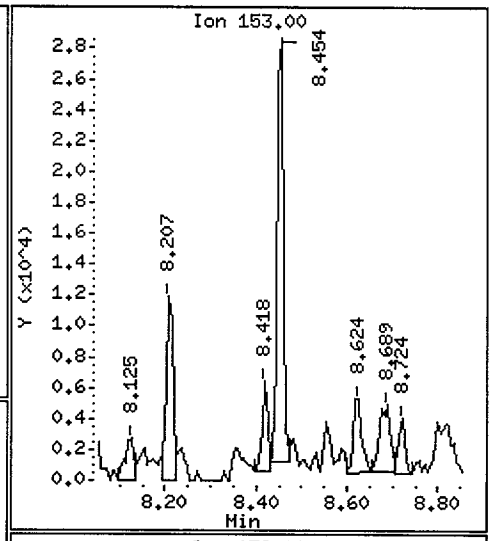
Concentration: 560 ug/Kg

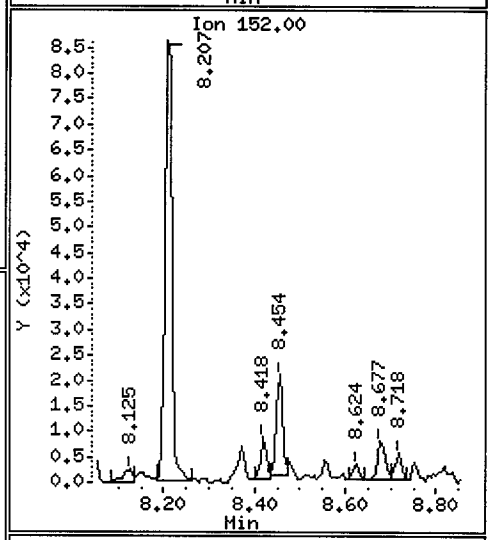


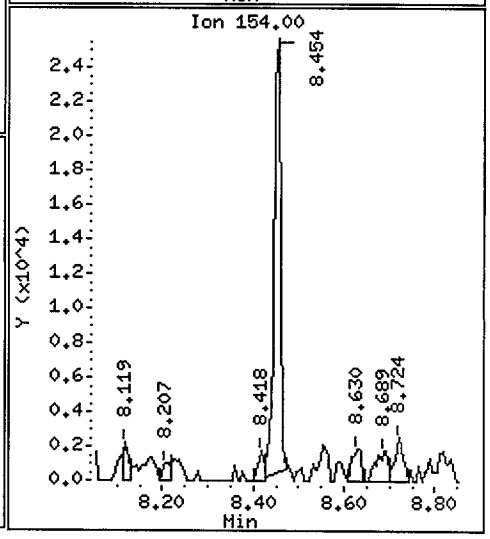












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

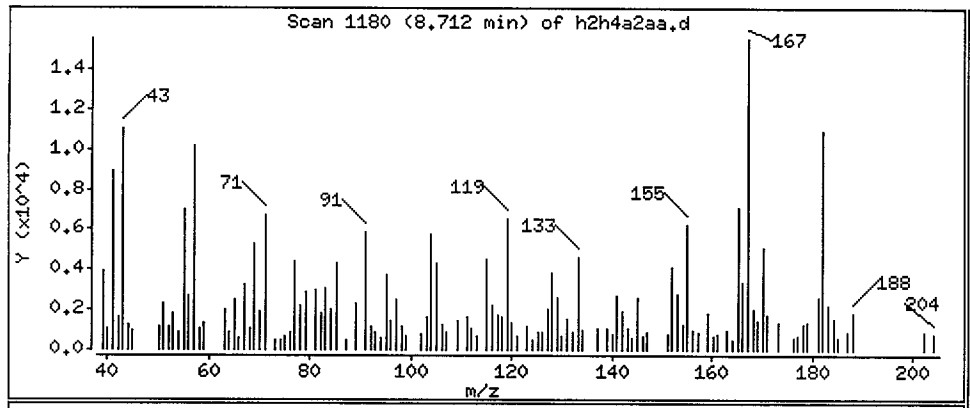
Operator: 60841

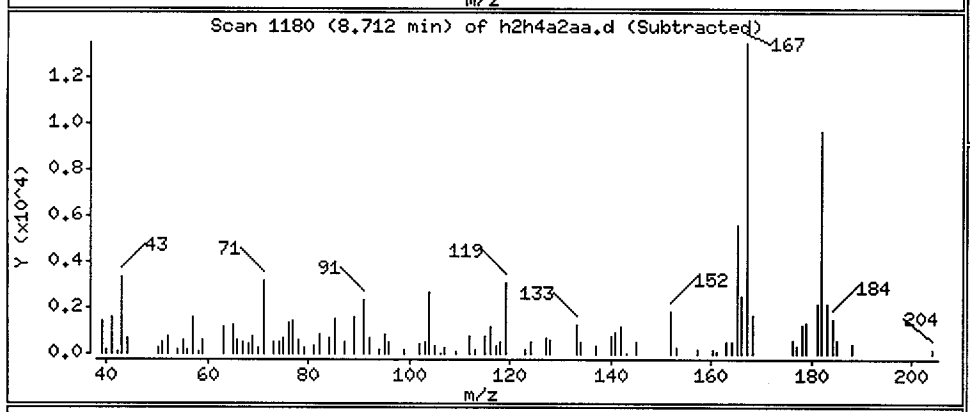
Column phase: ZB-5

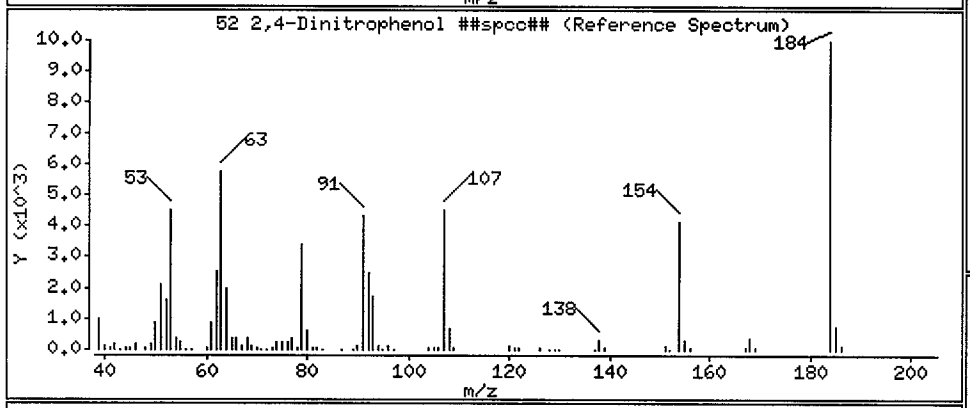
Column diameter: 0.25

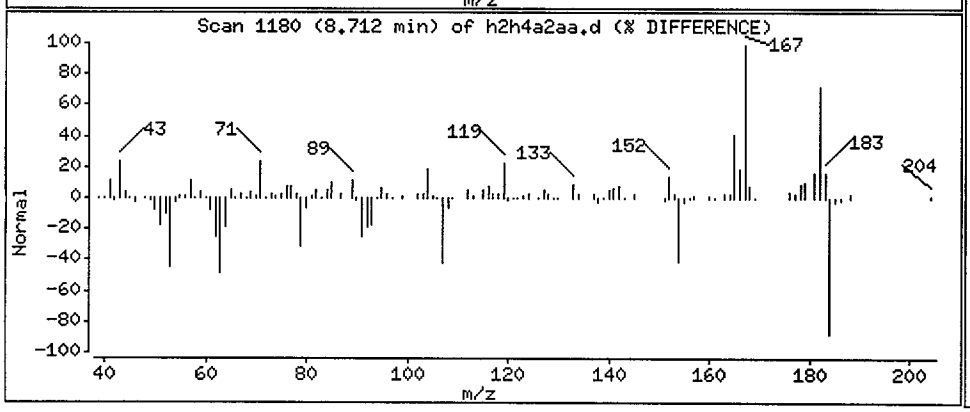
52 2,4-Dinitrophenol ##spcc##

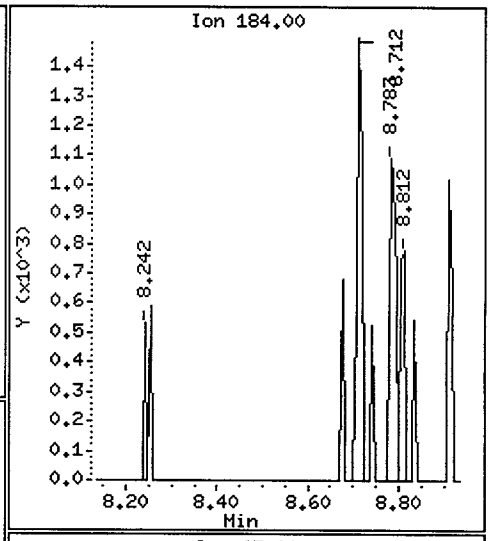
Concentration: 2100 ug/Kg

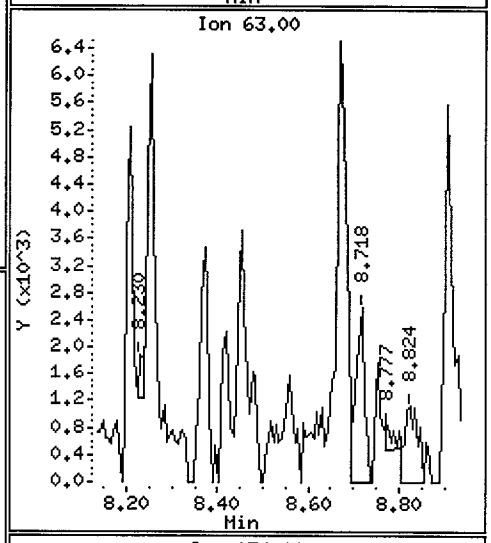


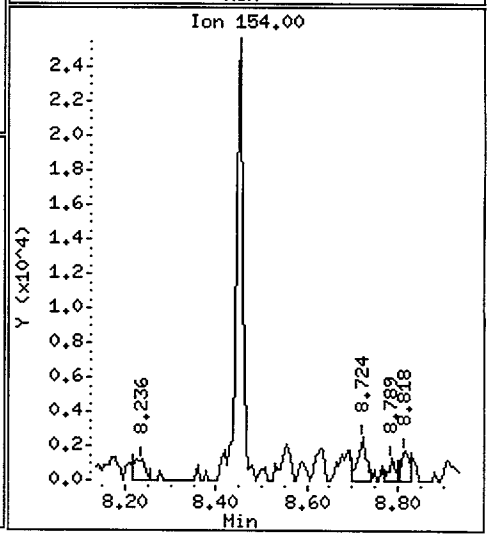












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

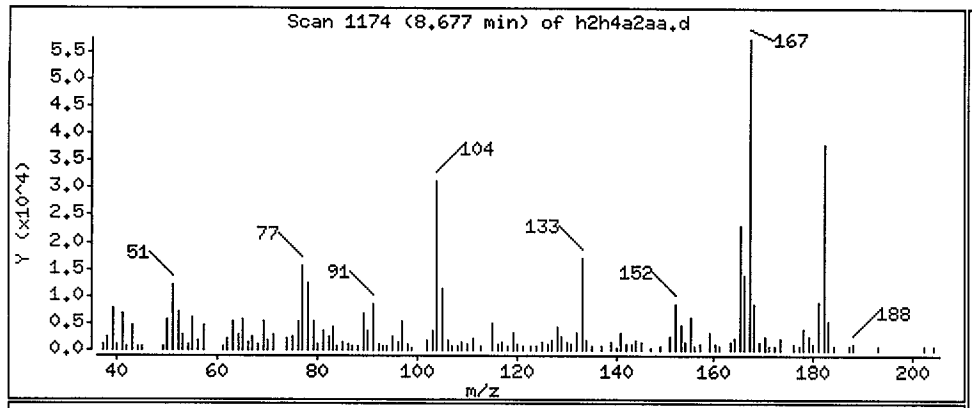
Operator: 60841

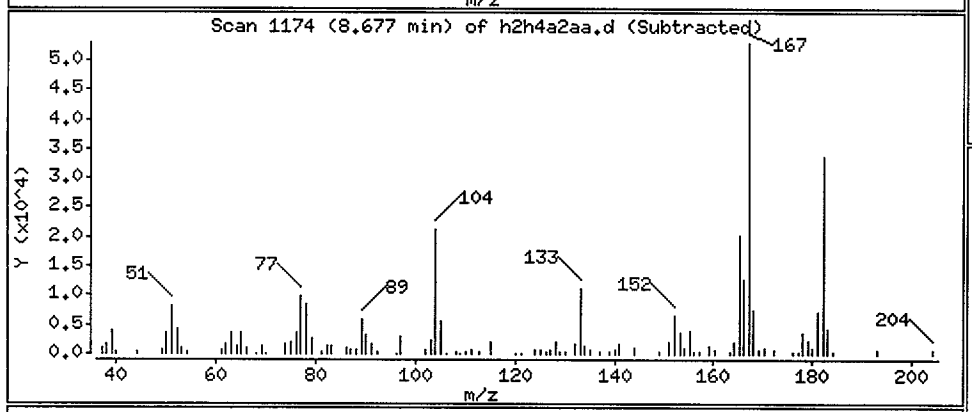
Column phase: ZB-5

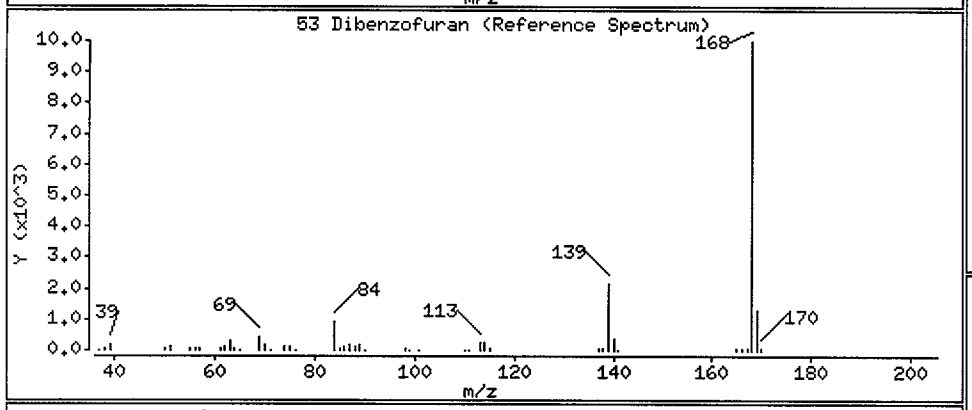
Column diameter: 0.25

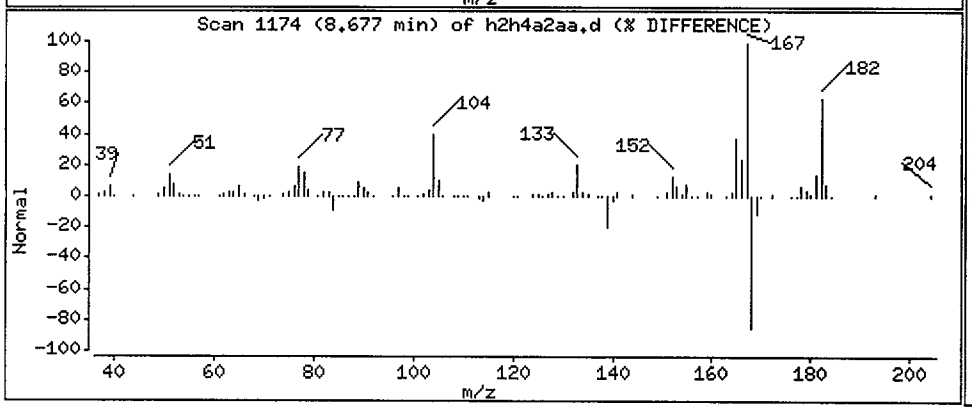
53 Dibenzofuran

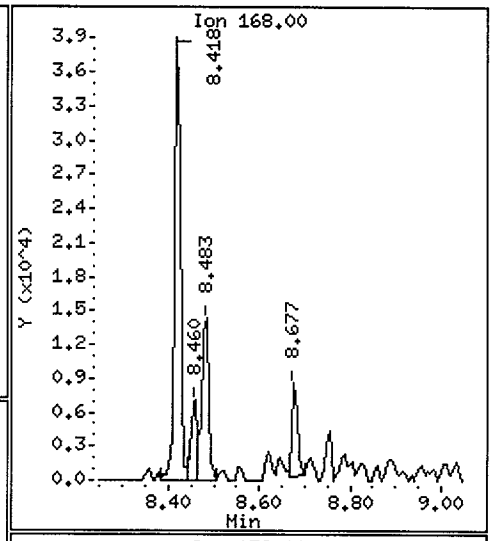
Concentration: 104 ug/Kg

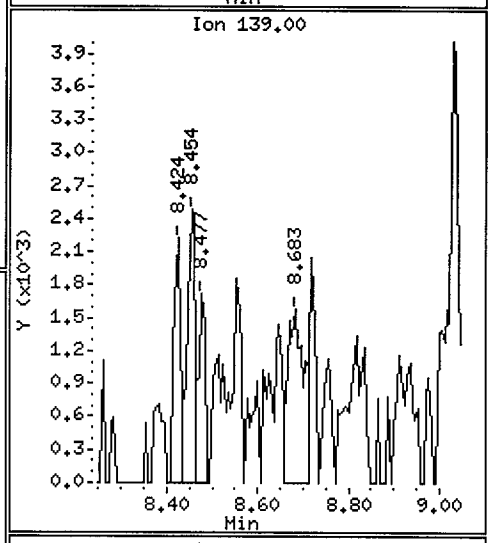


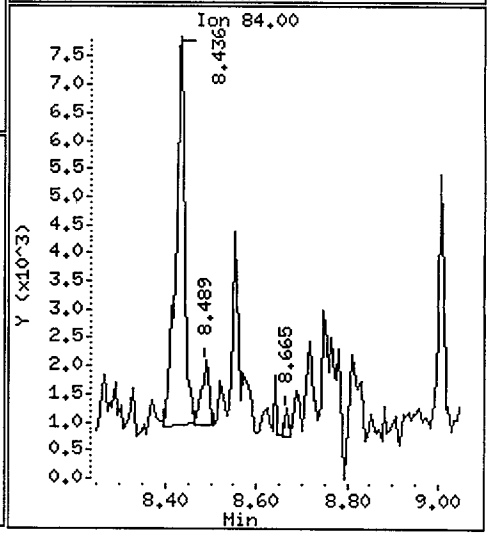












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

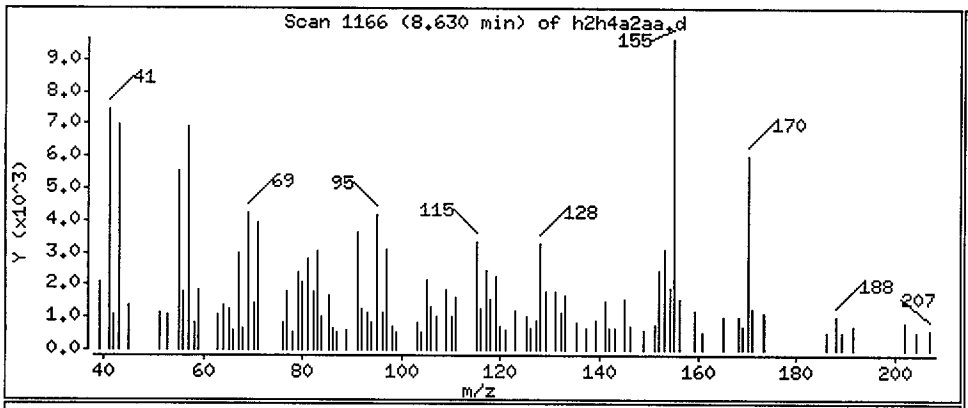
Operator: 60841

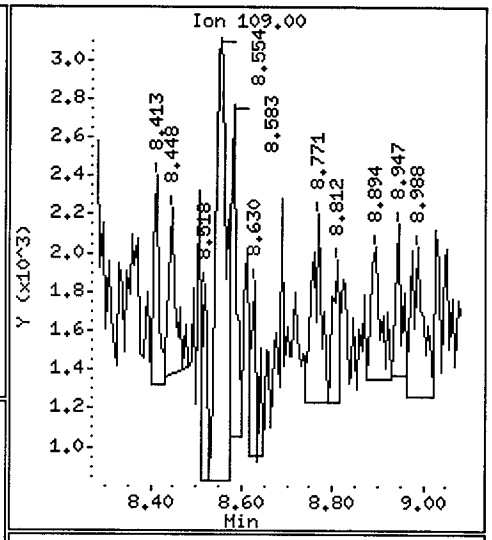
Column phase: ZB-5

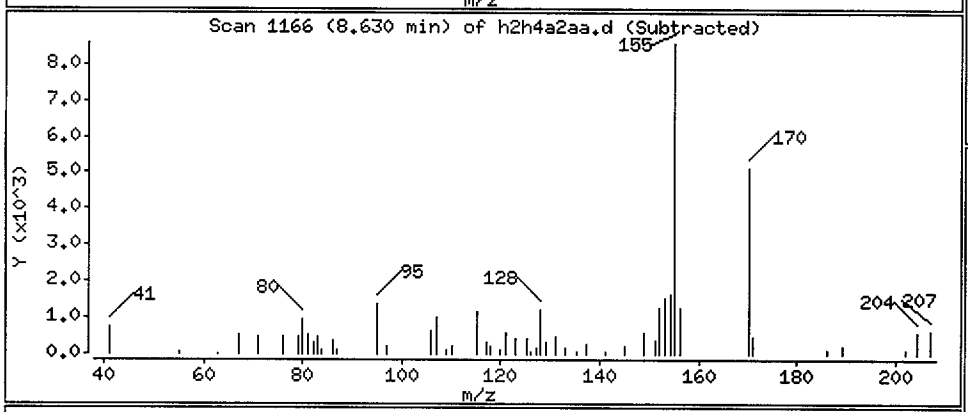
Column diameter: 0.25

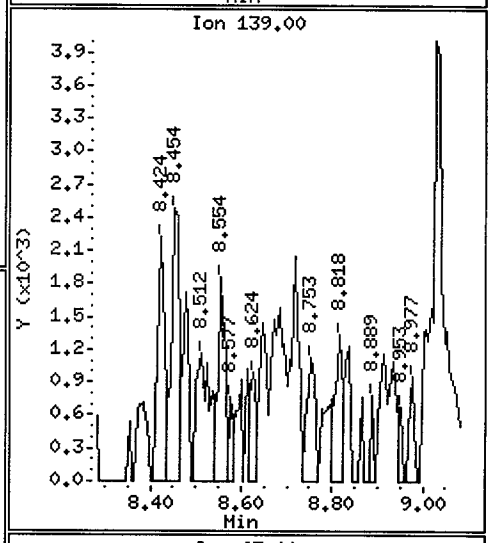
54 4-Nitrophenol ##spcc##

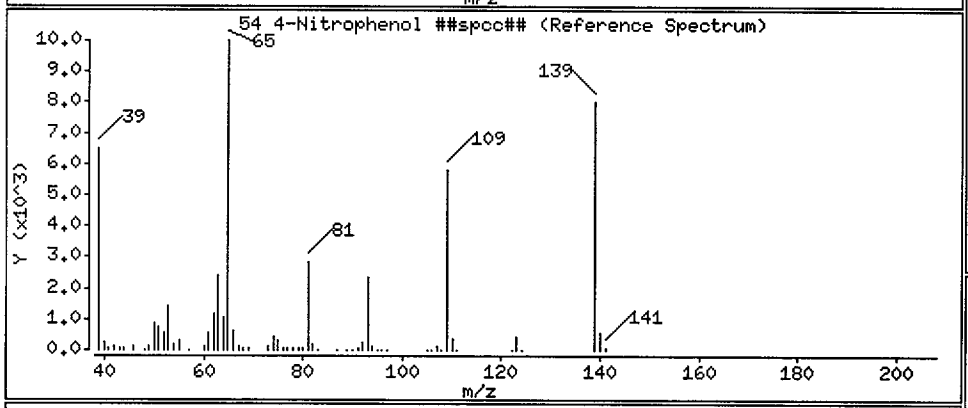
Concentration: 104 ug/Kg

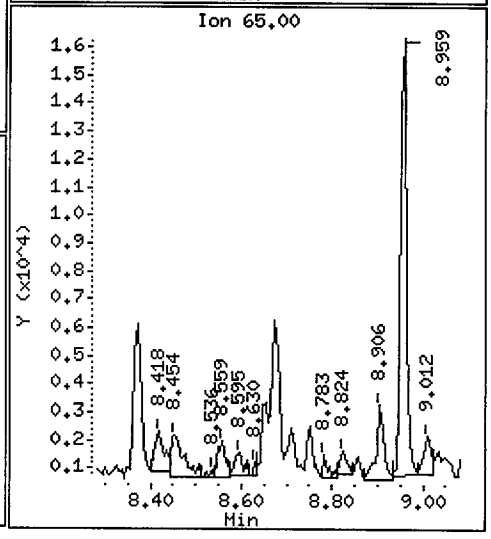


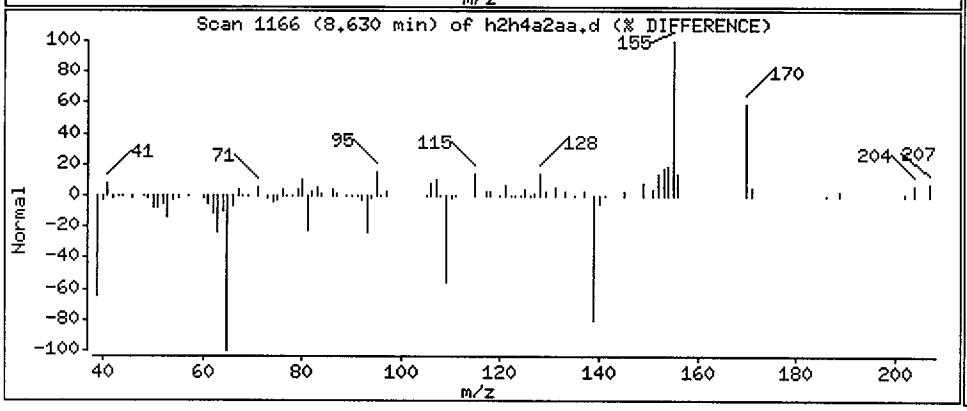












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

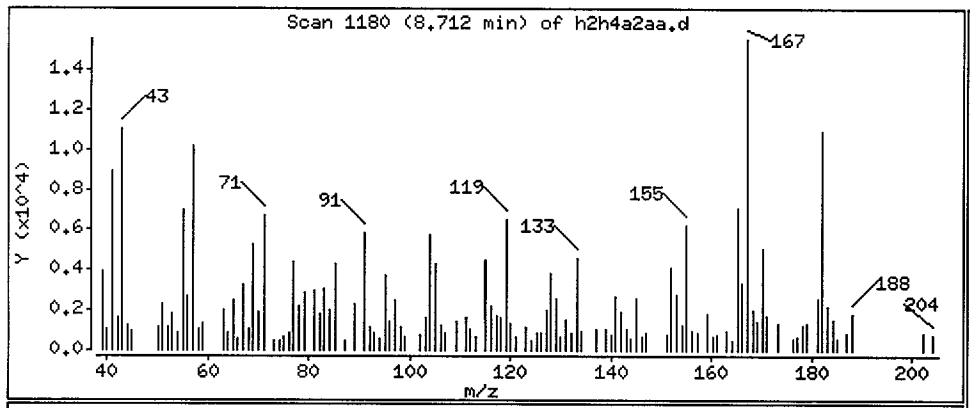
Operator: 60841

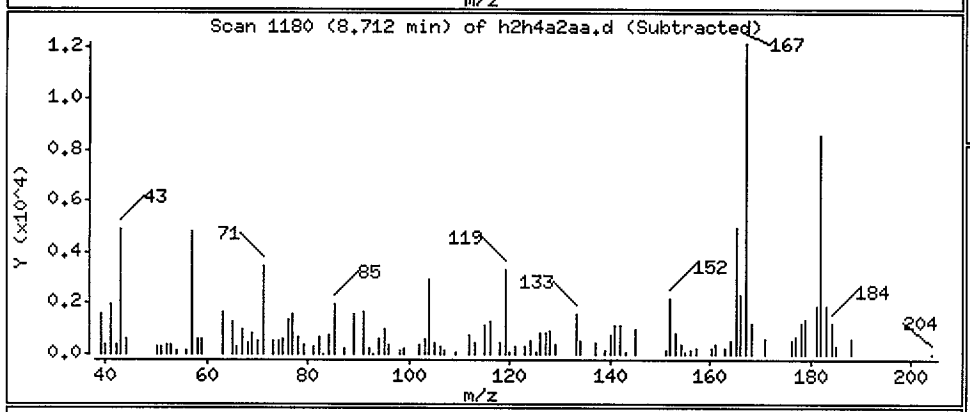
Column phase: ZB-5

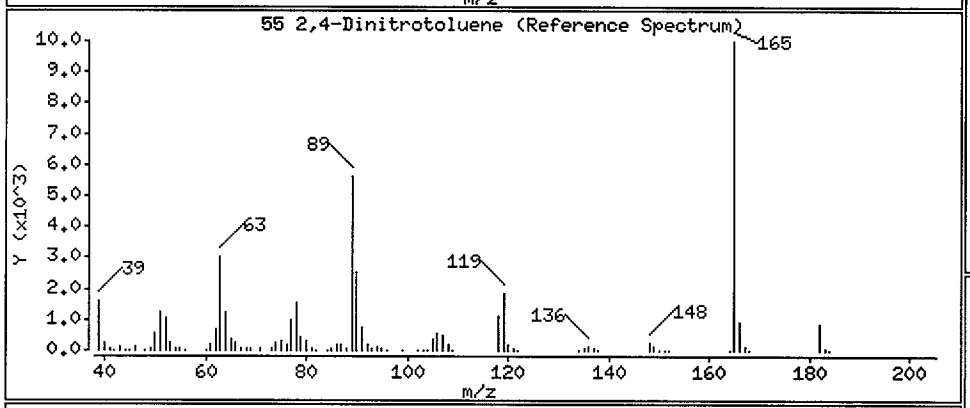
Column diameter: 0.25

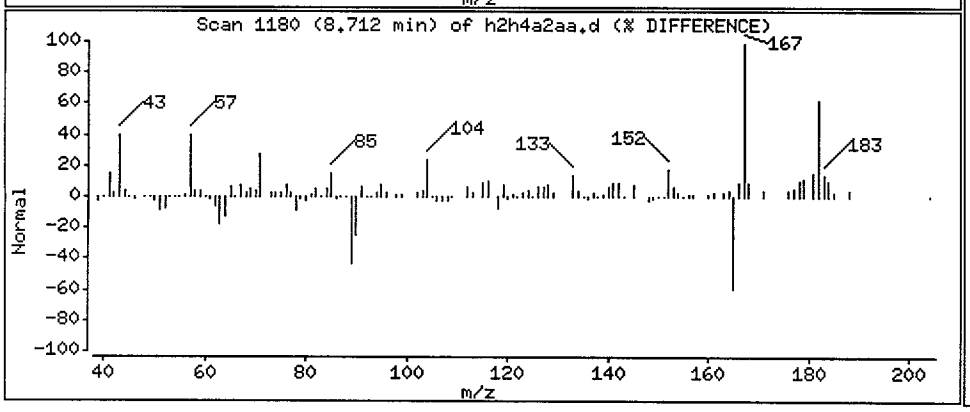
55 2,4-Dinitrotoluene

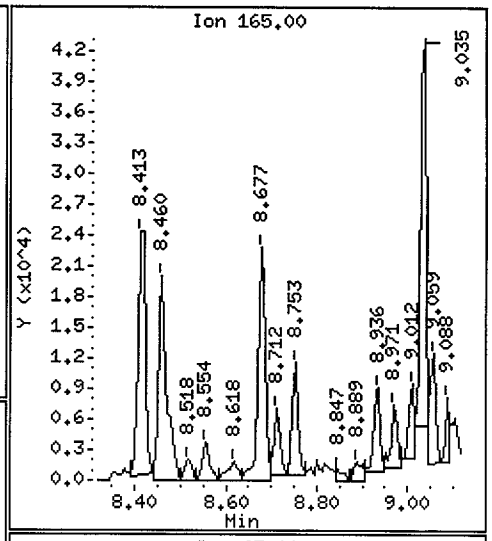
Concentration: 367 ug/Kg

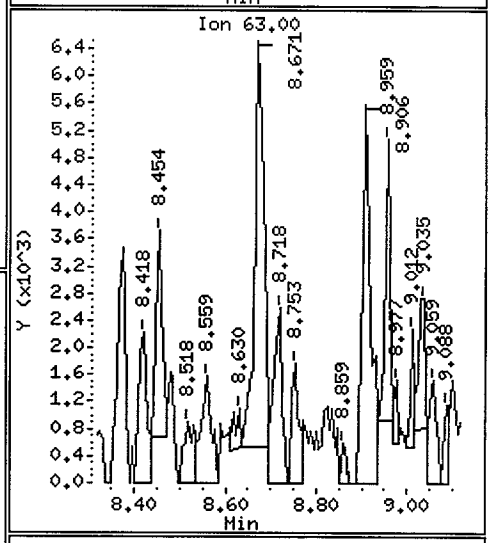


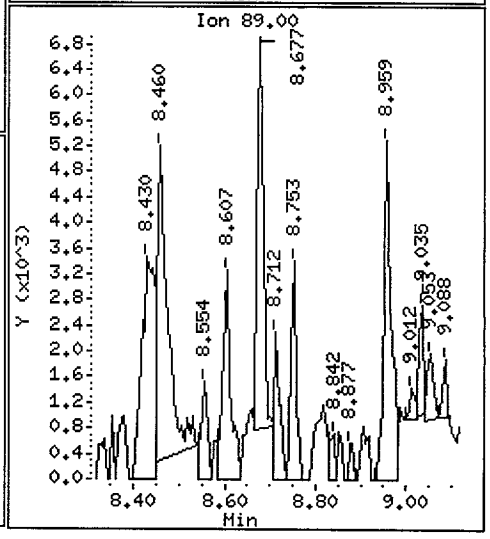












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

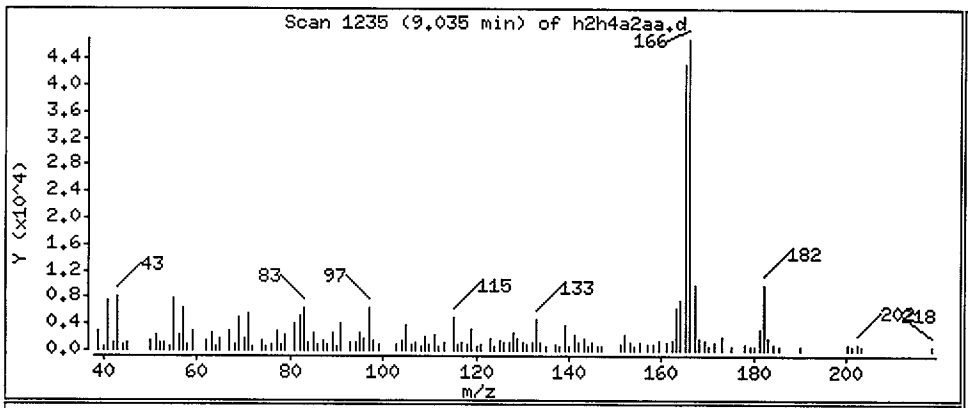
Operator: 60841

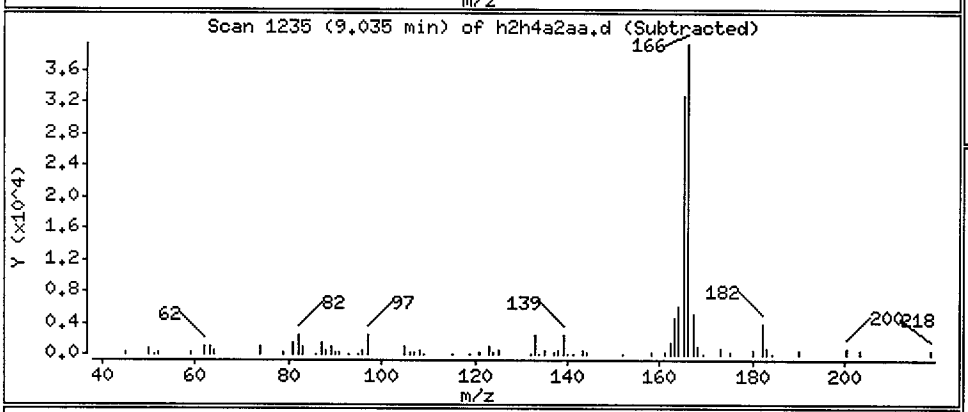
Column phase: ZB-5

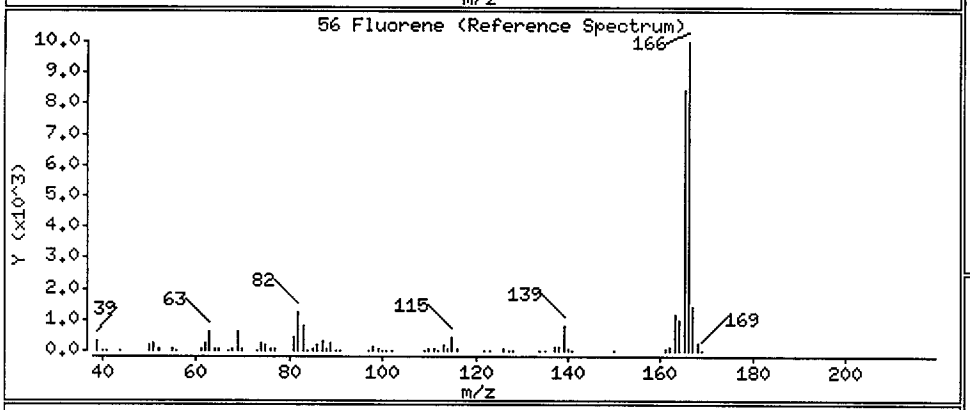
Column diameter: 0.25

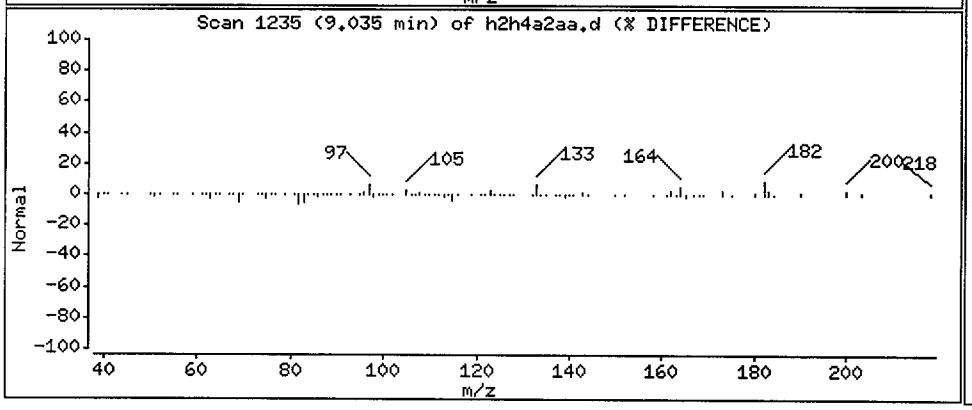
56 Fluorene

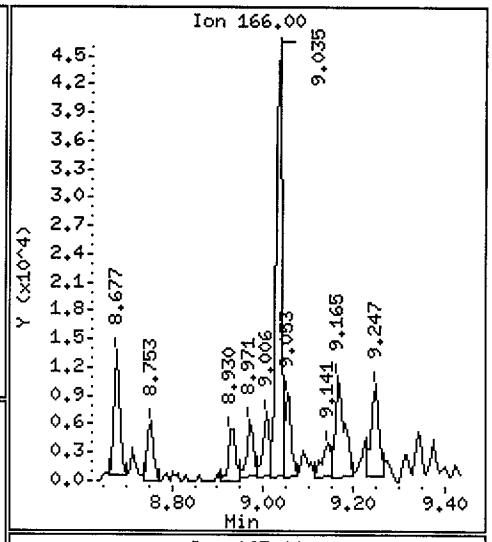
Concentration: 712 ug/Kg

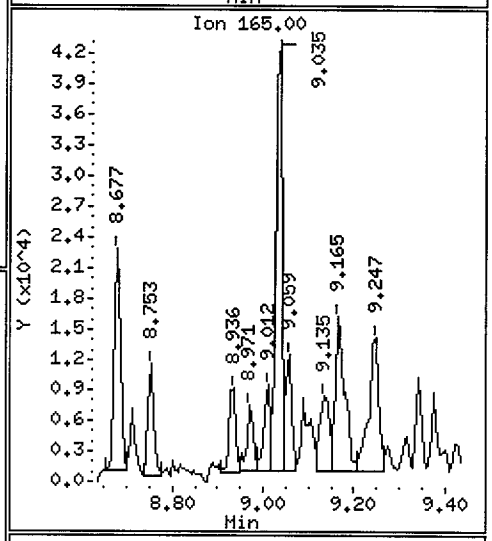


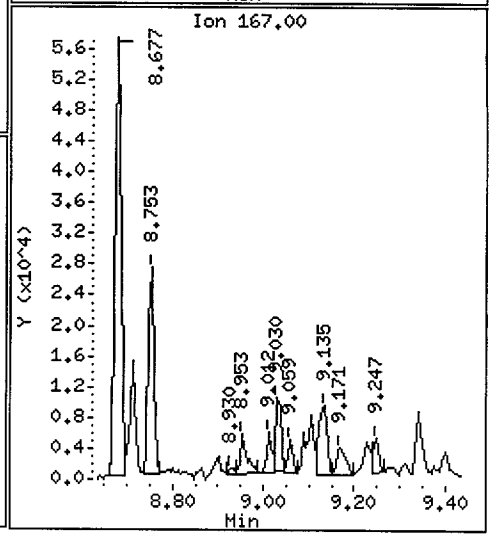












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

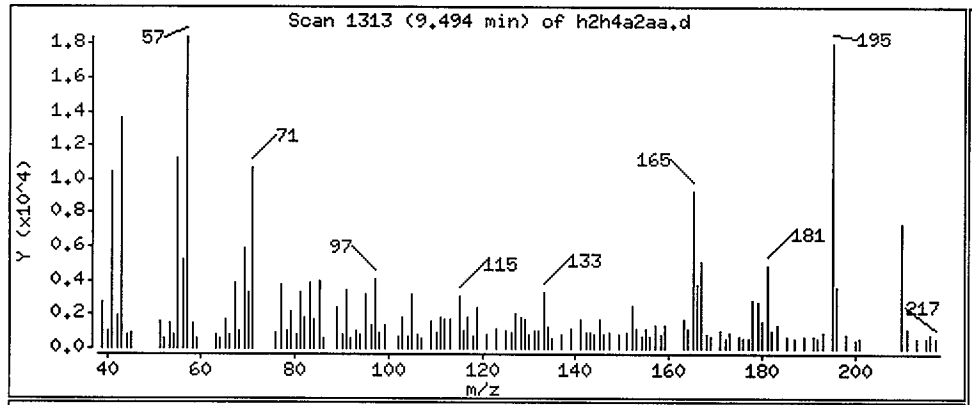
Operator: 60841

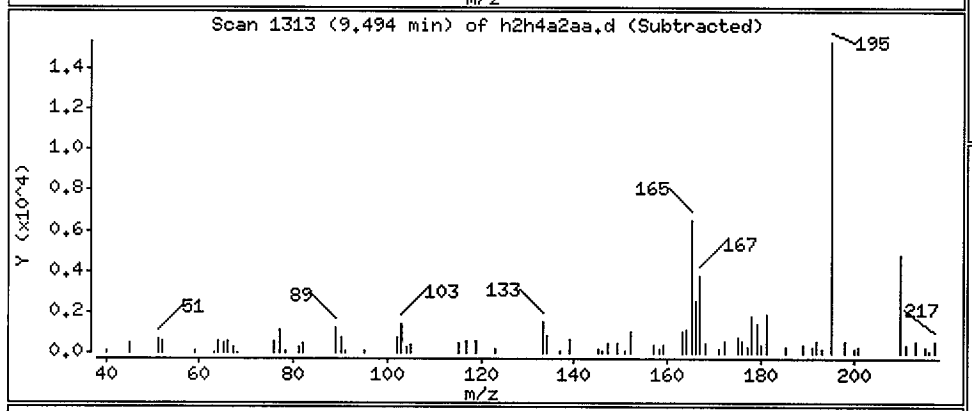
Column phase: ZB-5

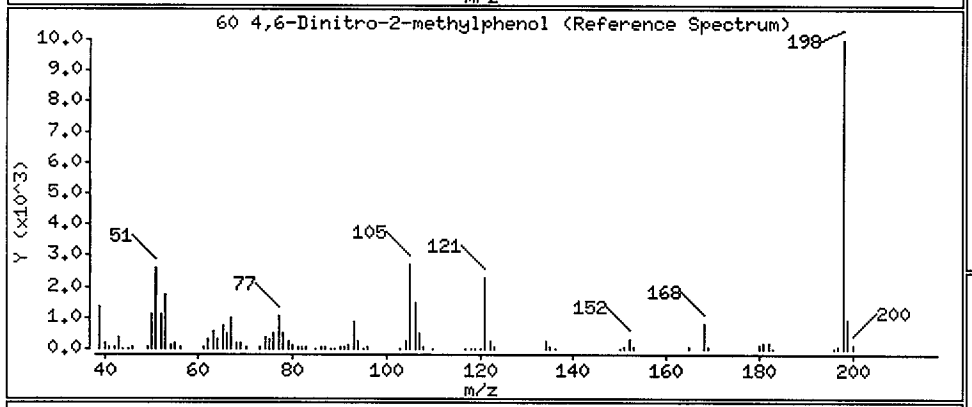
Column diameter: 0.25

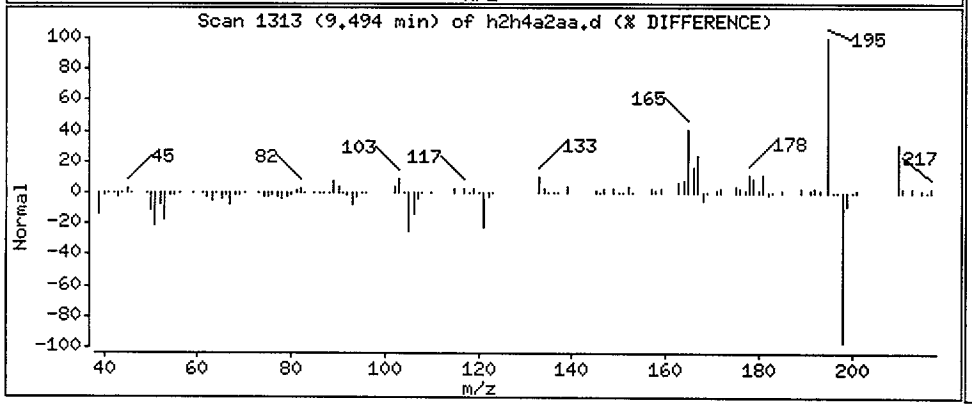
60 4,6-Dinitro-2-methylphenol

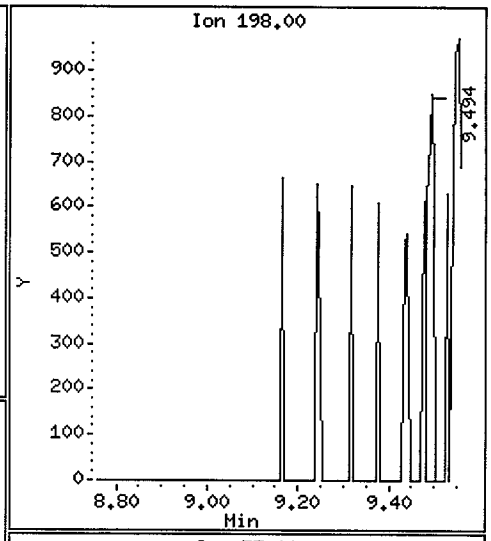
Concentration: 118 ug/Kg

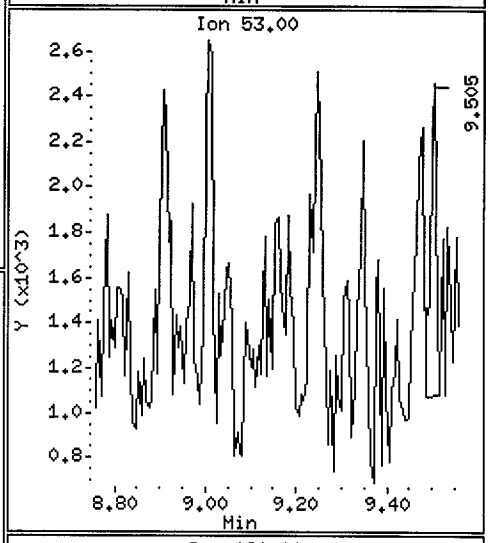


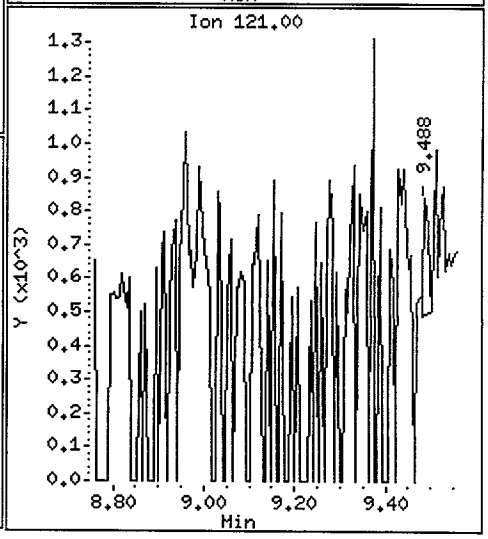












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

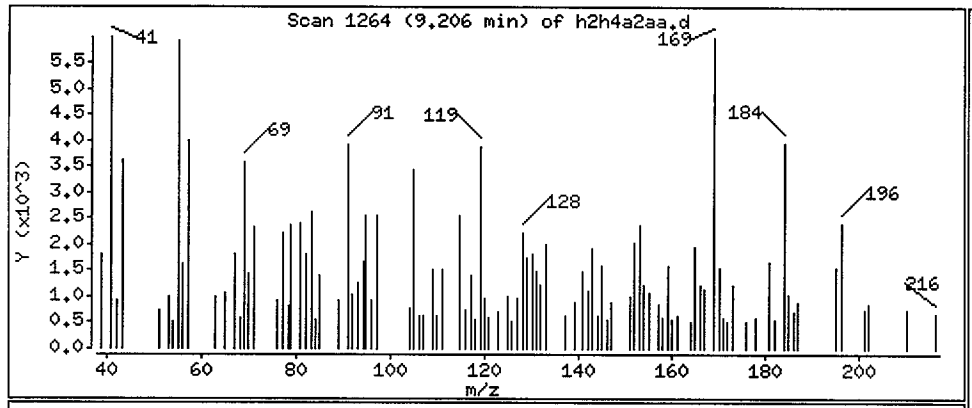
Operator: 60841

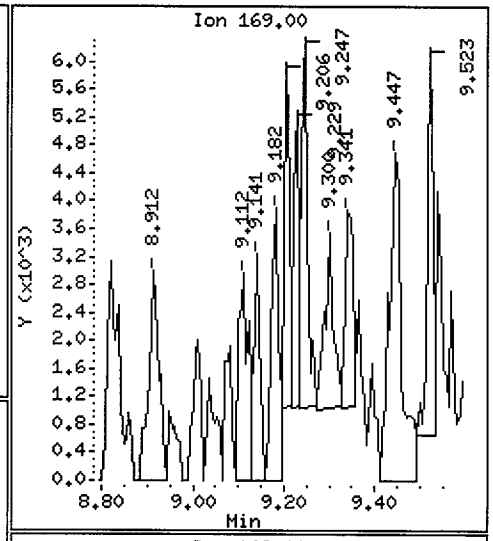
Column phase: ZB-5

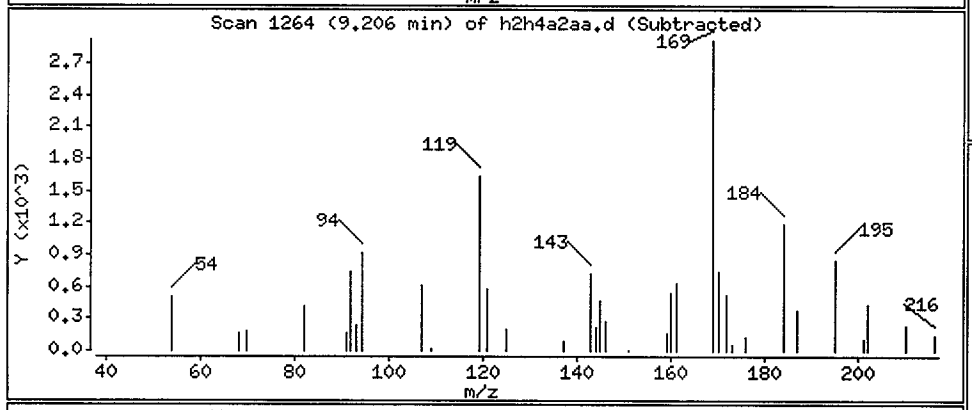
Column diameter: 0.25

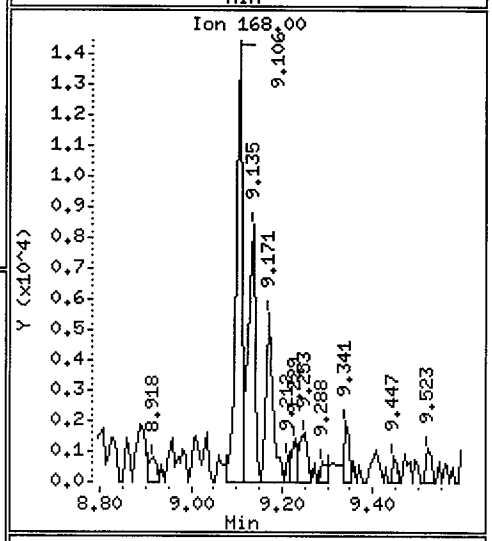
61 N-Ndpa / diphenylamine (ccc)

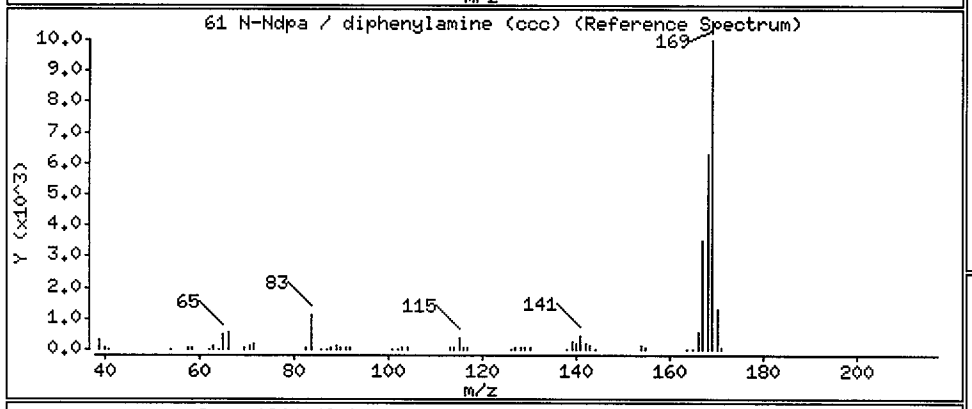
Concentration: 115 ug/Kg

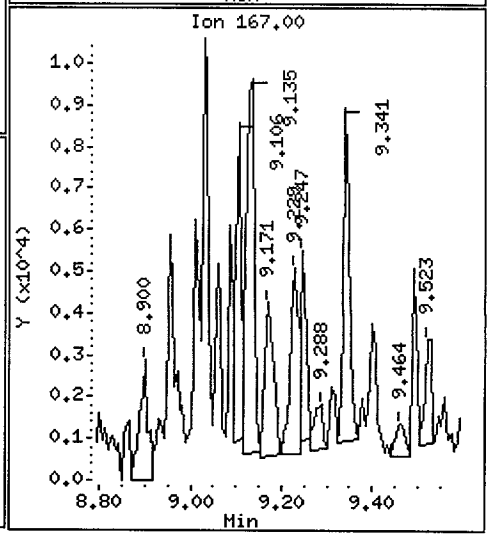


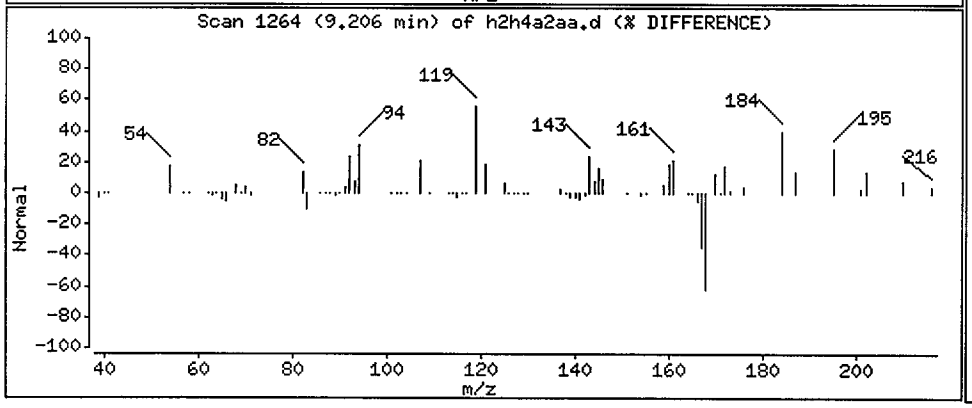












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

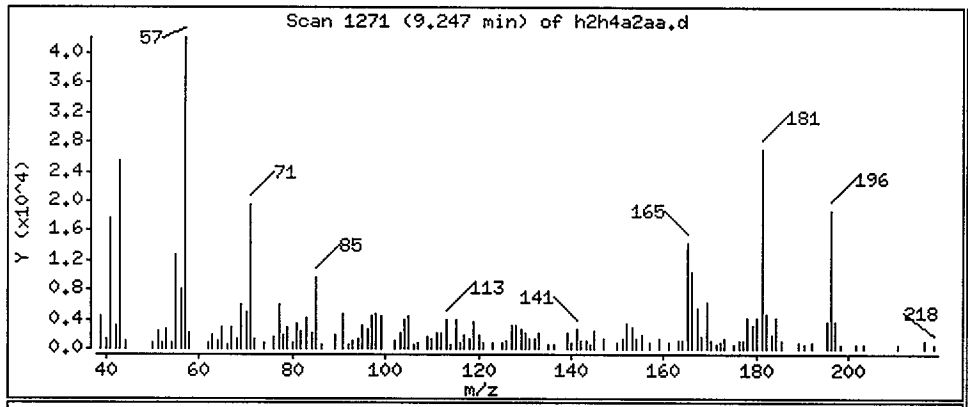
Operator: 60841

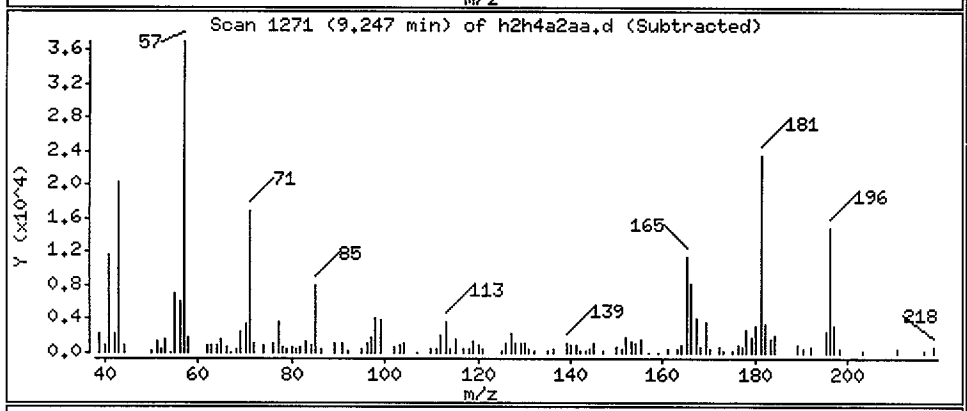
Column phase: ZB-5

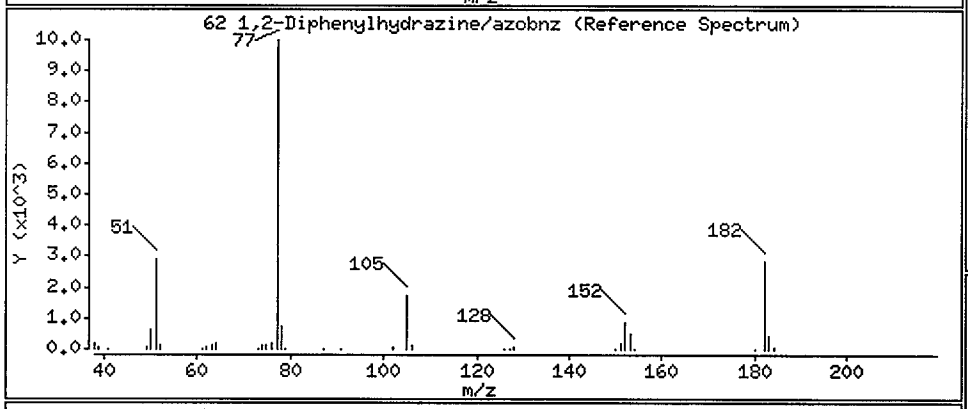
Column diameter: 0.25

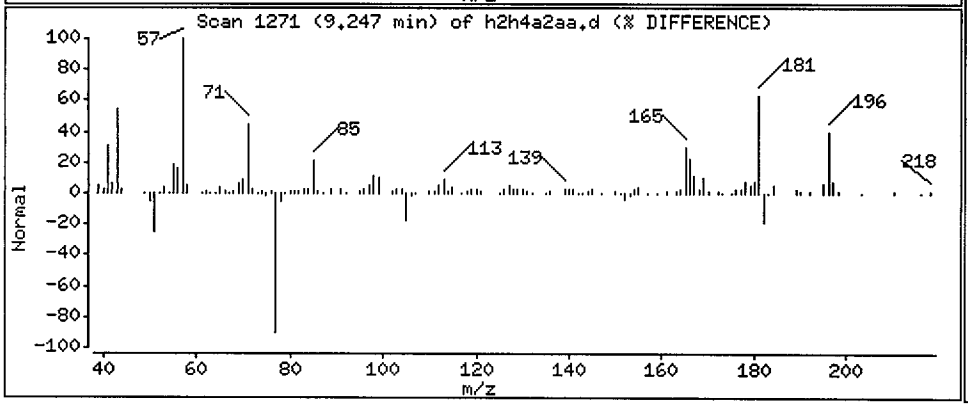
62 1,2-Diphenylhydrazine/azobnz

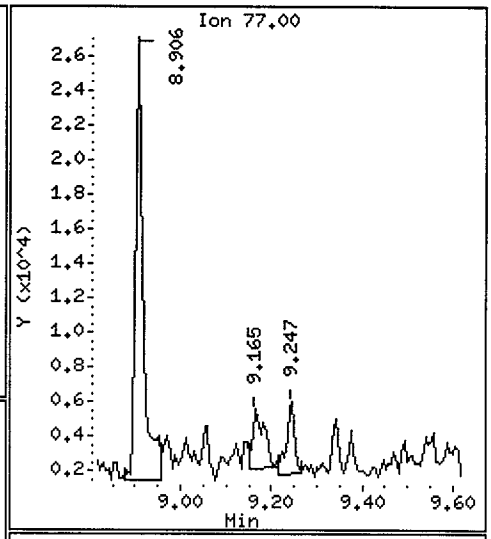
Concentration: 96.5 ug/Kg

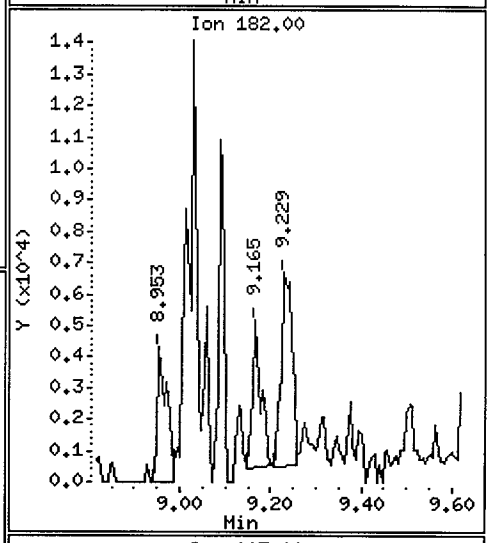


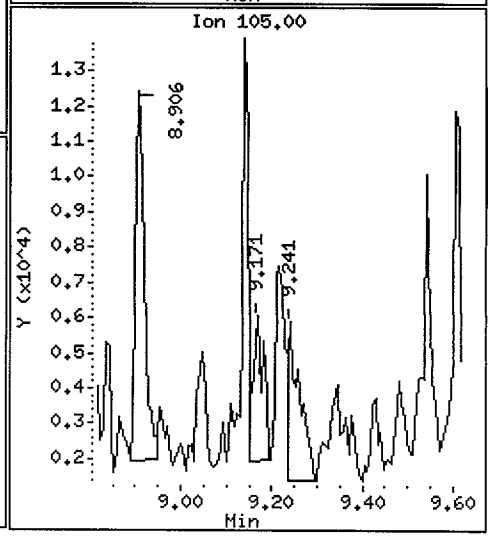












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

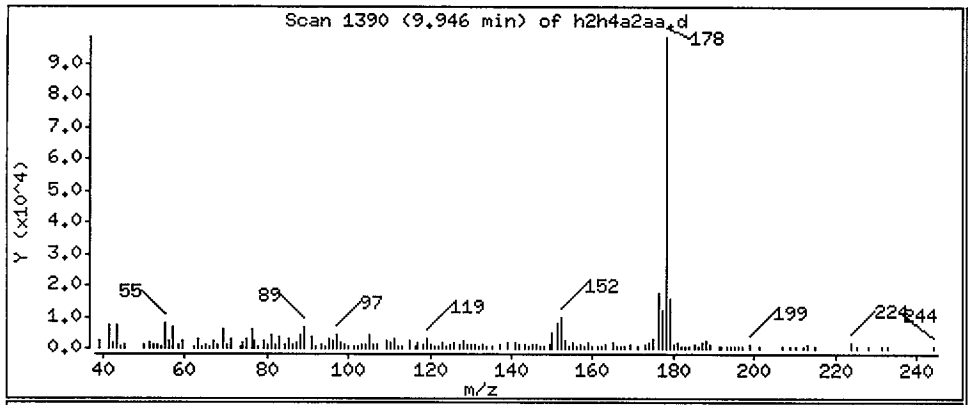
Operator: 60841

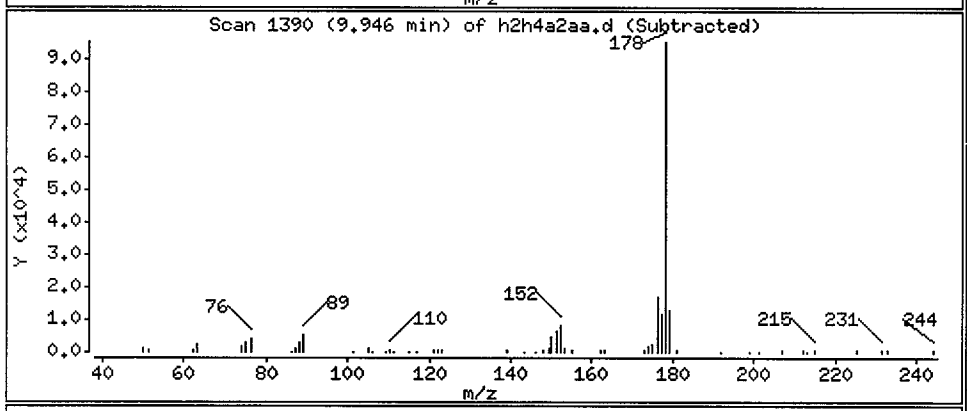
Column phase: ZB-5

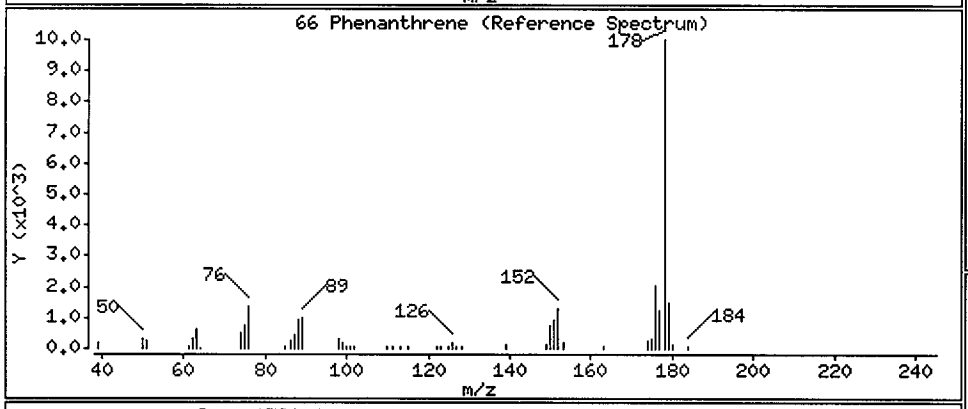
Column diameter: 0.25

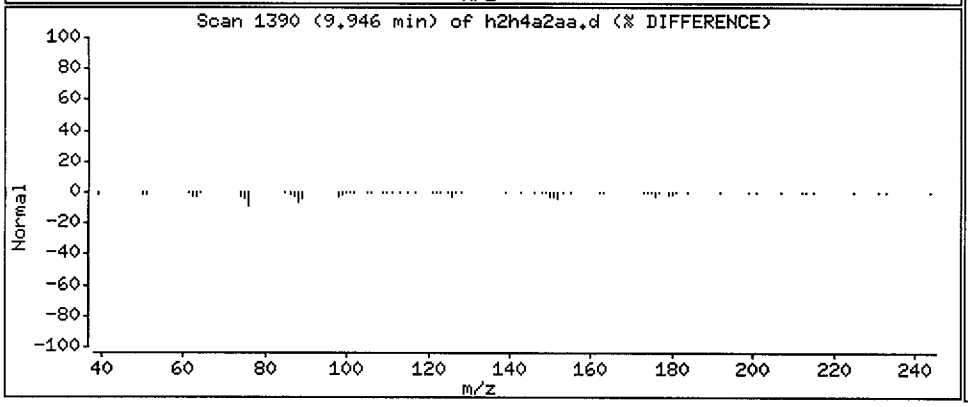
66 Phenanthrene

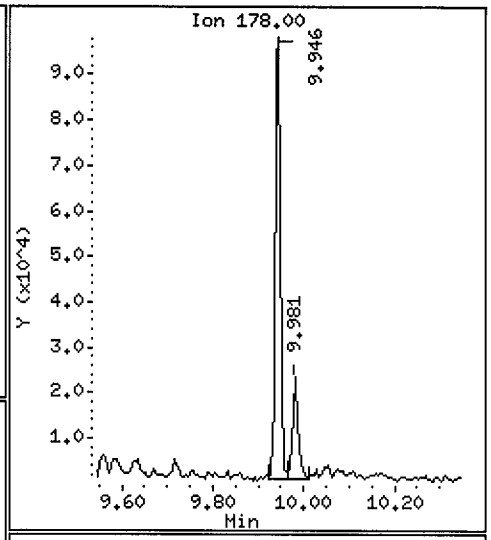
Concentration: 1030 ug/Kg

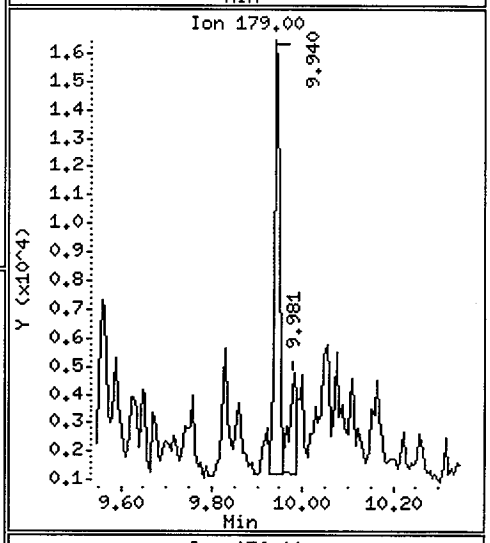


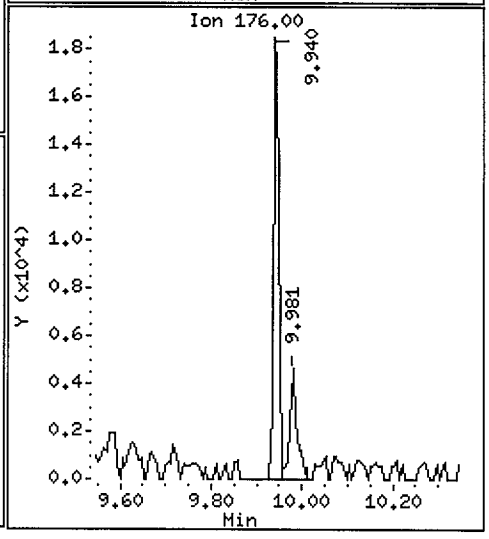












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

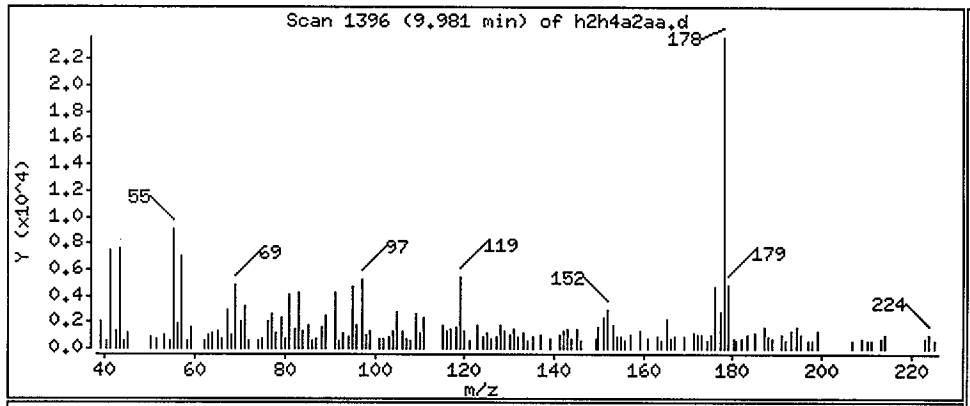
Operator: 60841

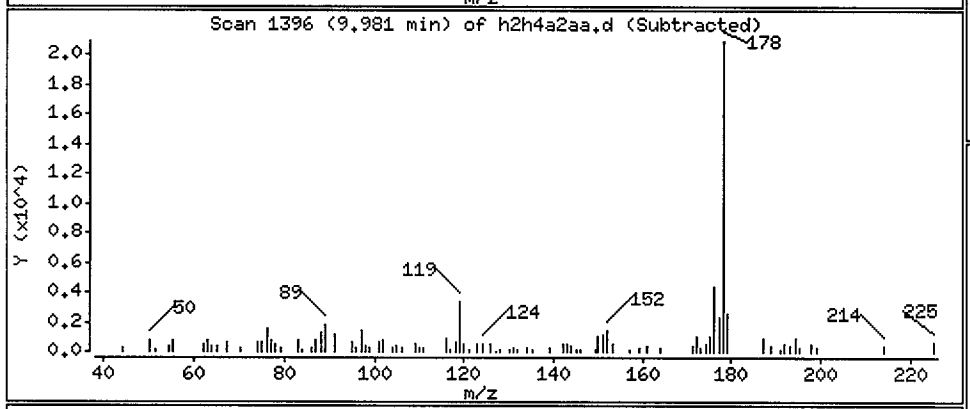
Column phase: ZB-5

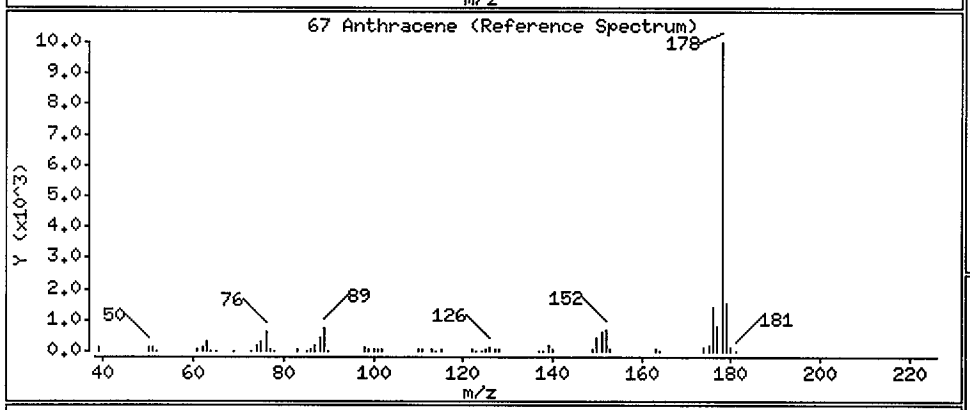
Column diameter: 0.25

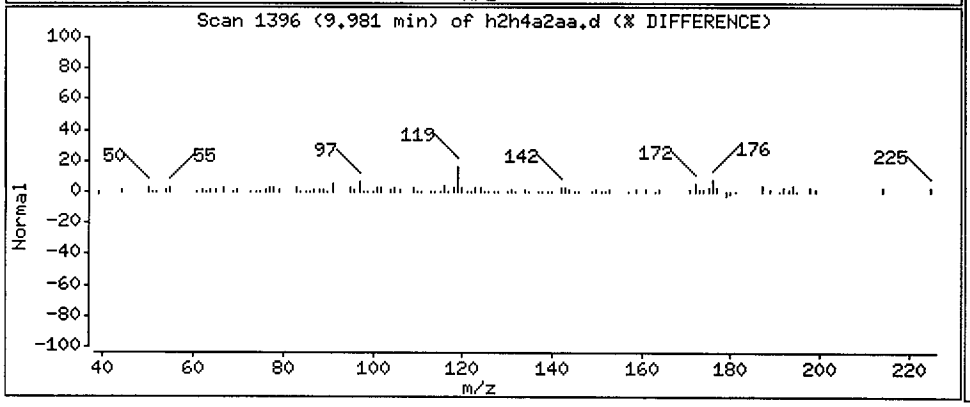
67 Anthracene

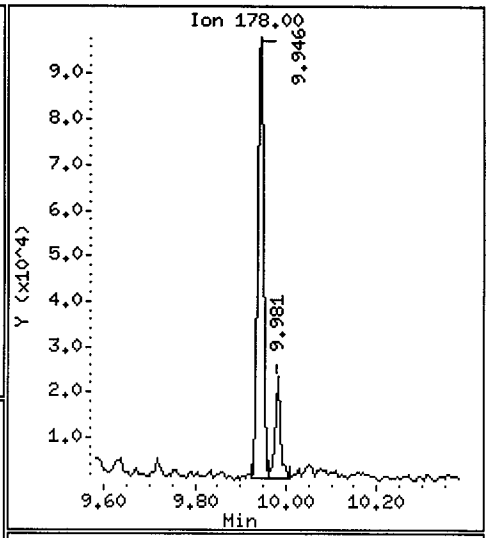
Concentration: 237 ug/Kg

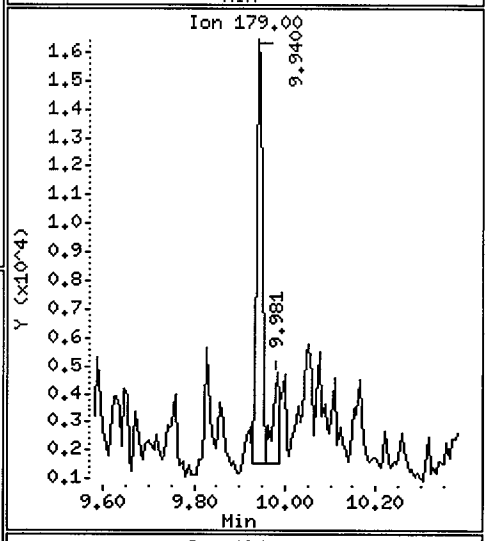


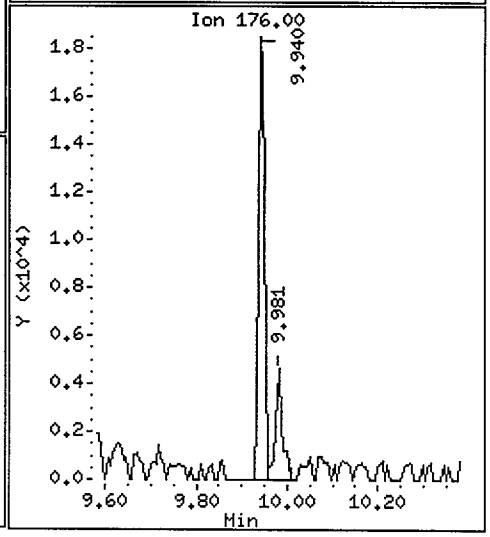












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

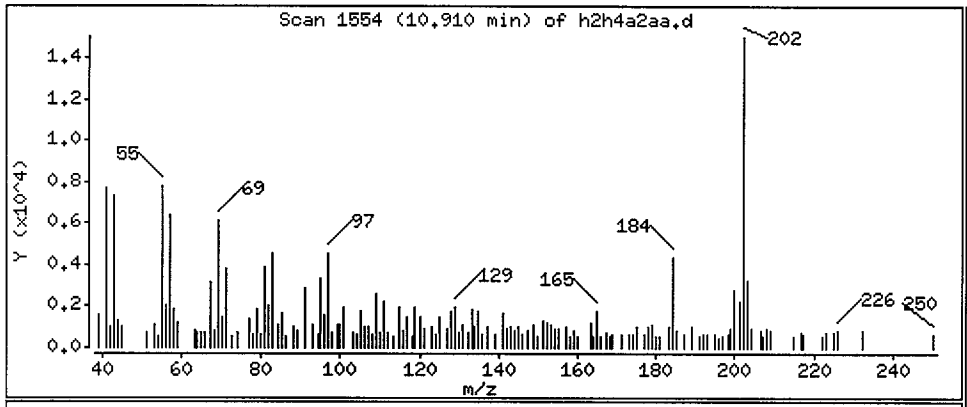
Operator: 60841

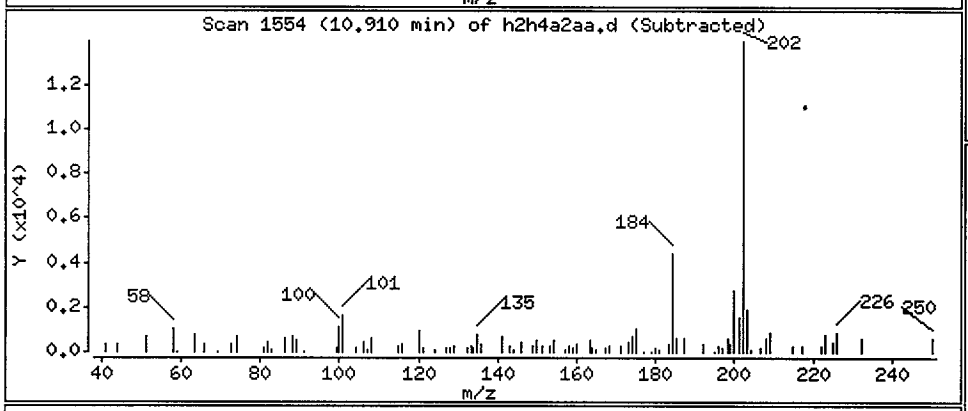
Column phase: ZB-5

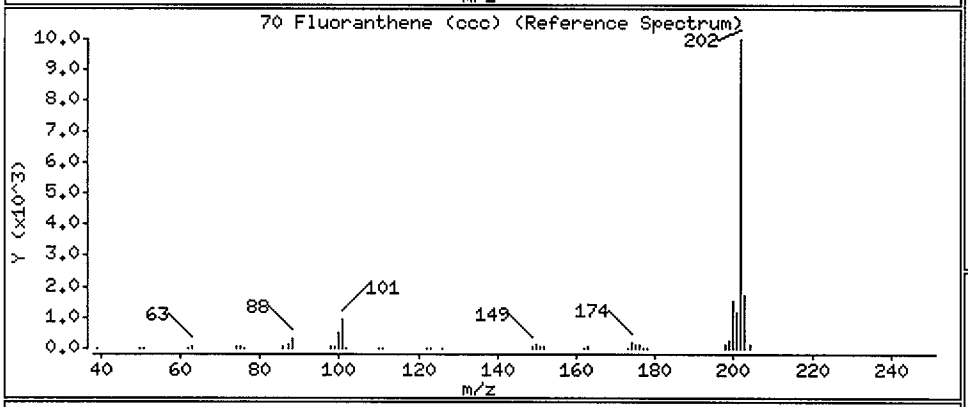
Column diameter: 0.25

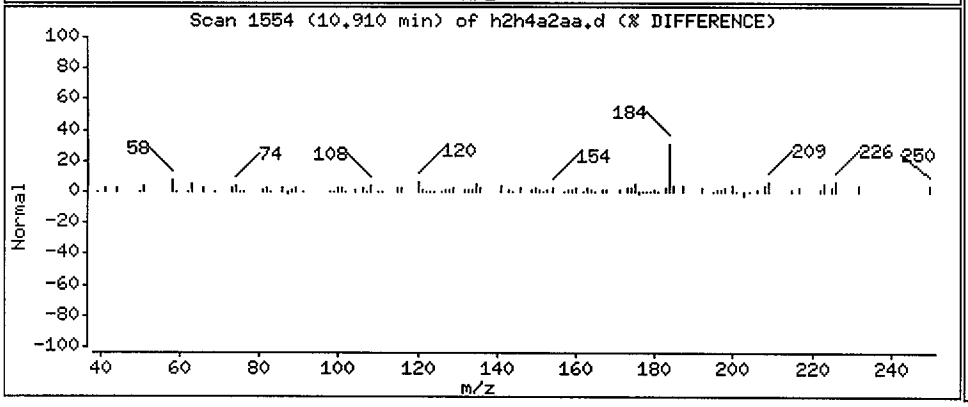
70 Fluoranthene (ccc)

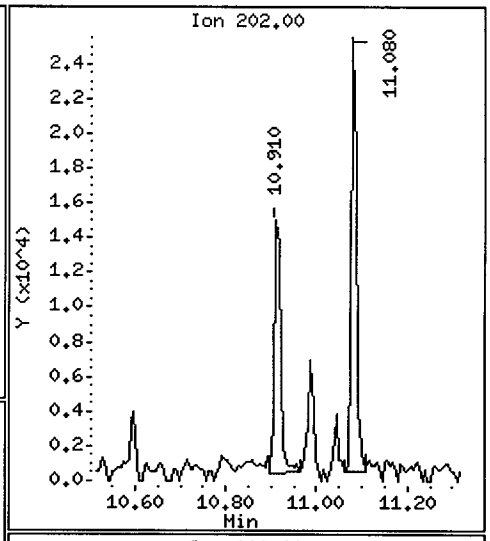
Concentration: 165 ug/Kg

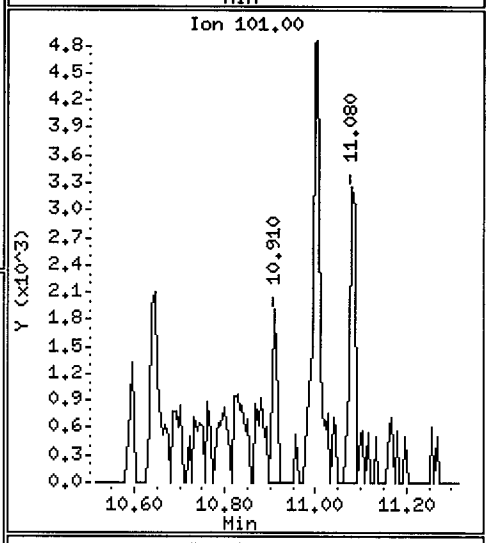


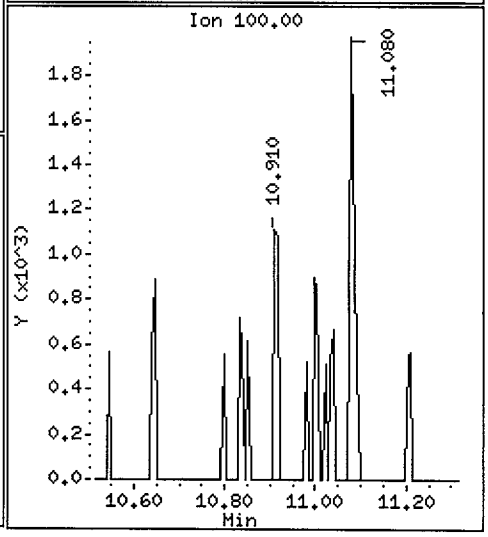












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

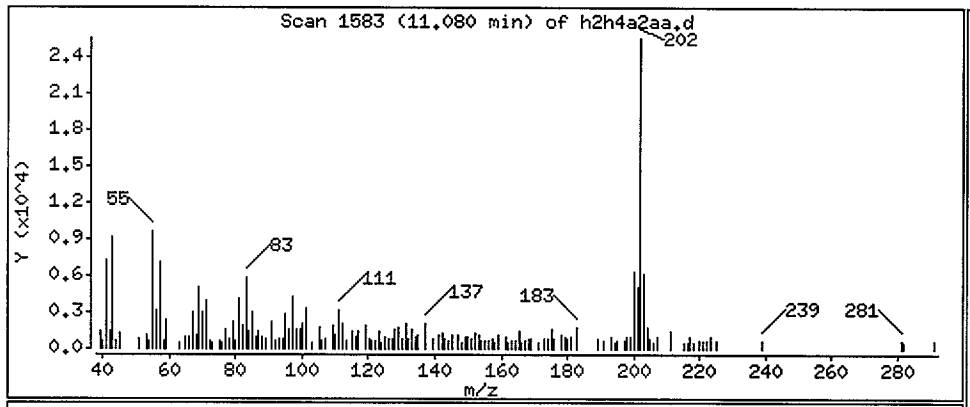
Operator: 60841

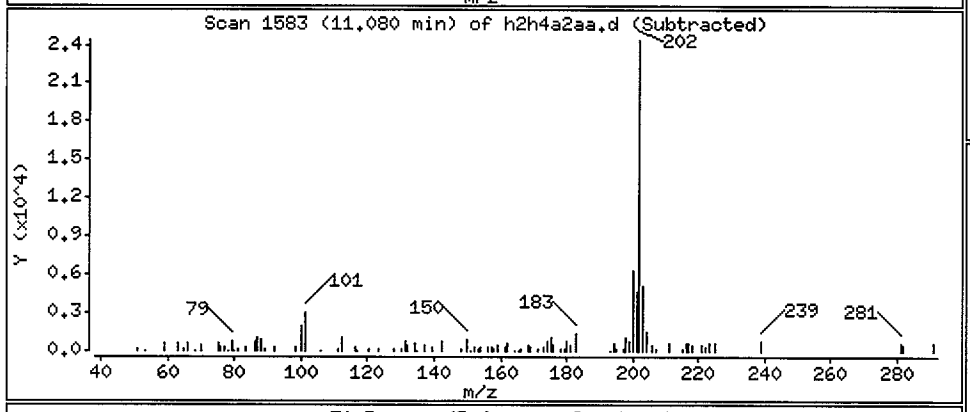
Column phase: ZB-5

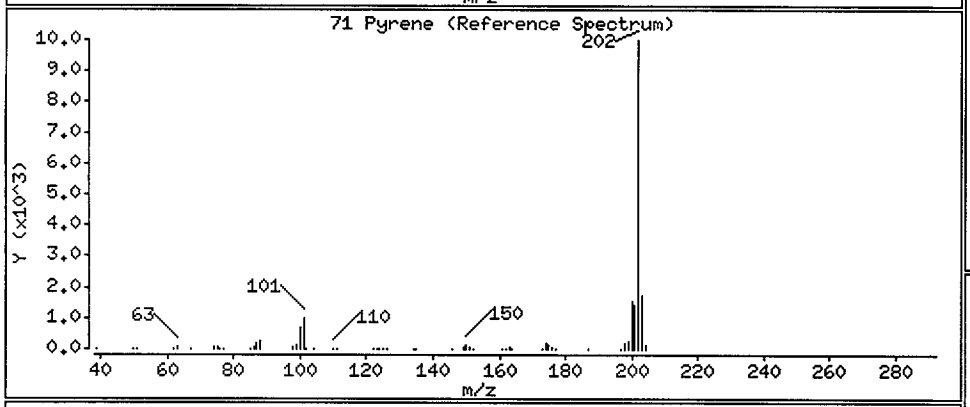
Column diameter: 0.25

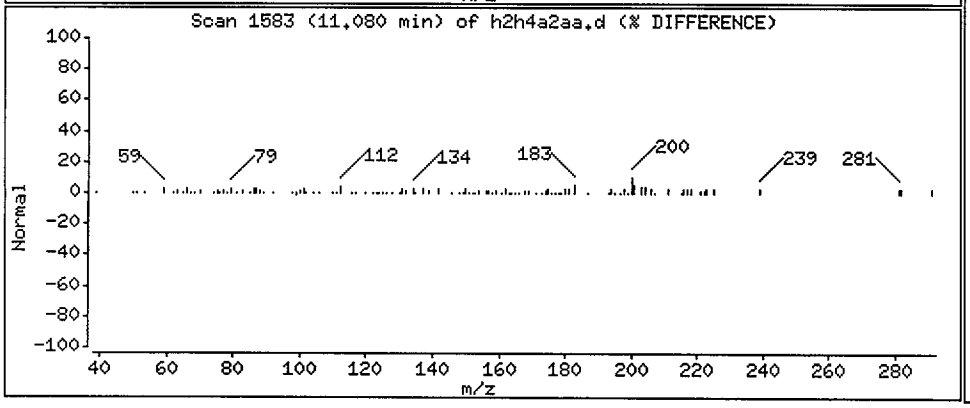
71 Pyrene

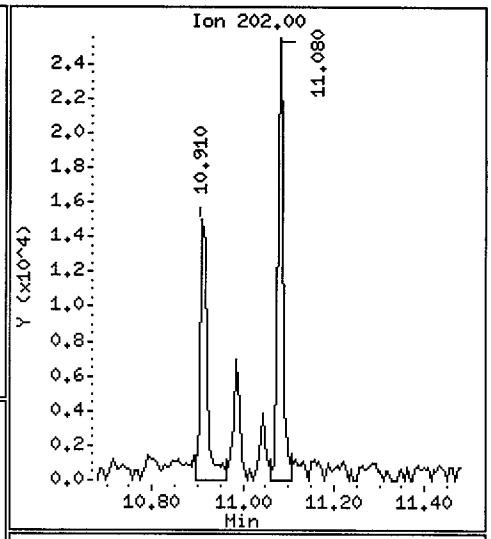
Concentration: 246 ug/Kg

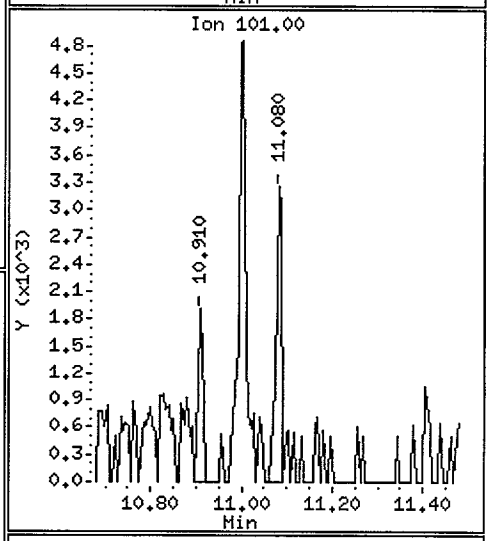


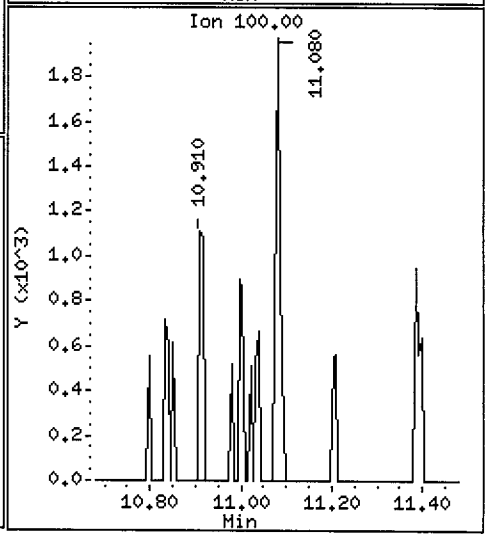












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

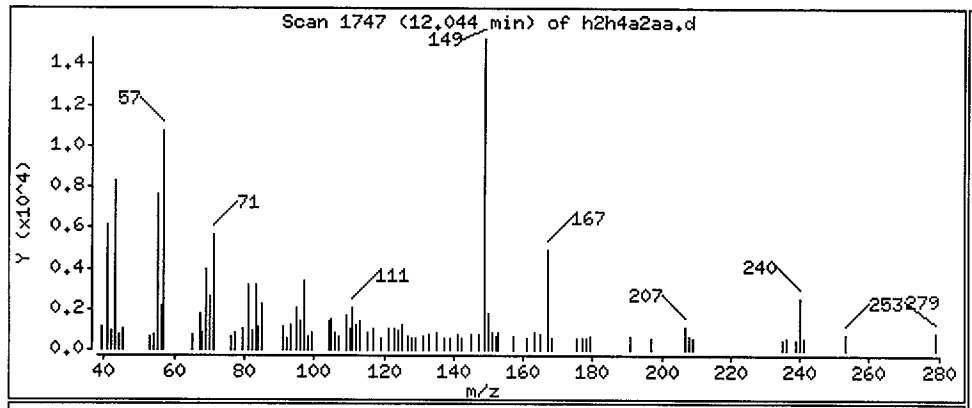
Operator: 60841

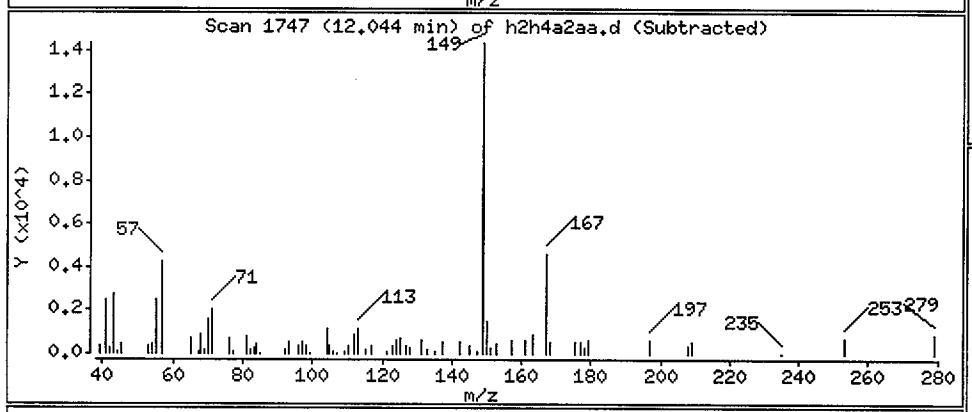
Column phase: ZB-5

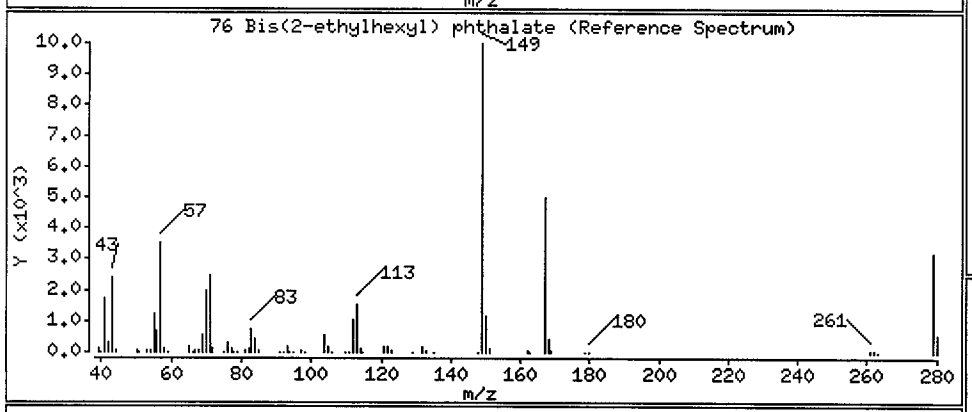
Column diameter: 0.25

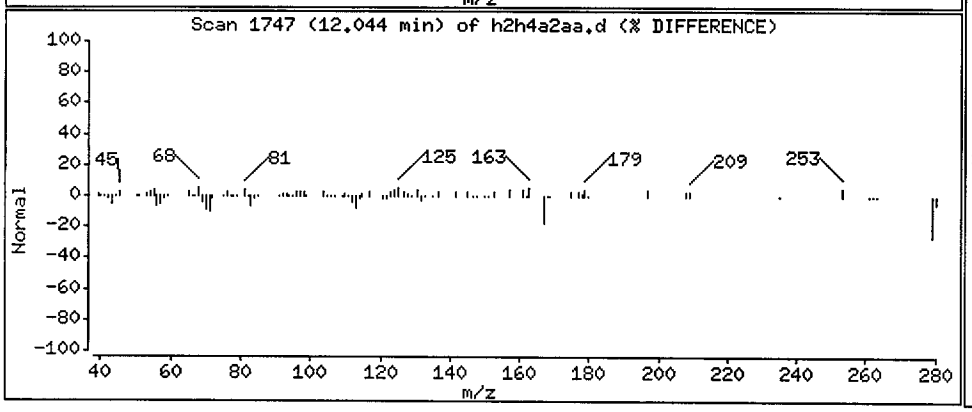
76 Bis(2-ethylhexyl) phthalate

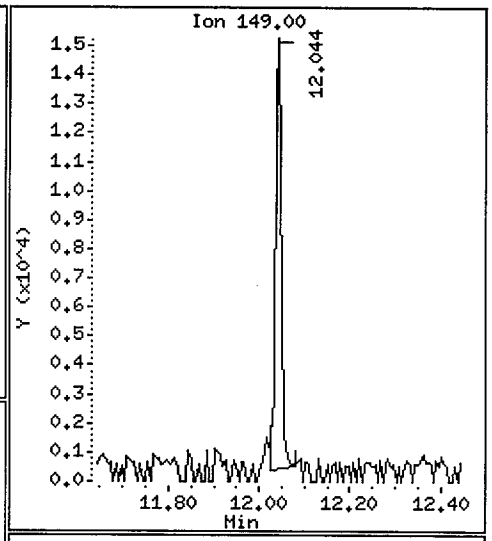
Concentration: 275 ug/Kg

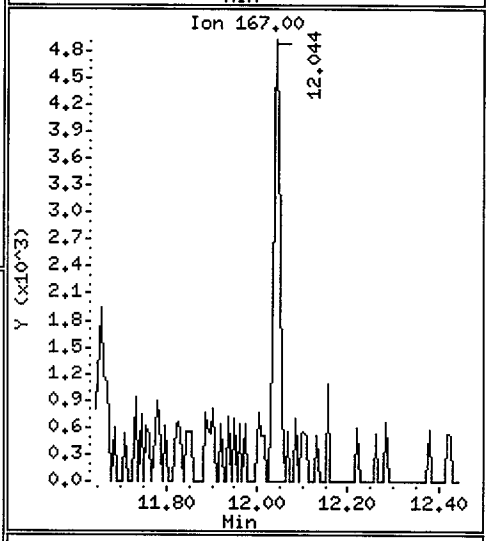


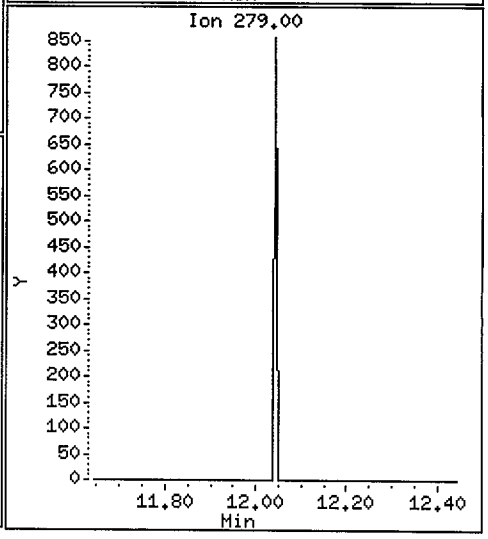












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

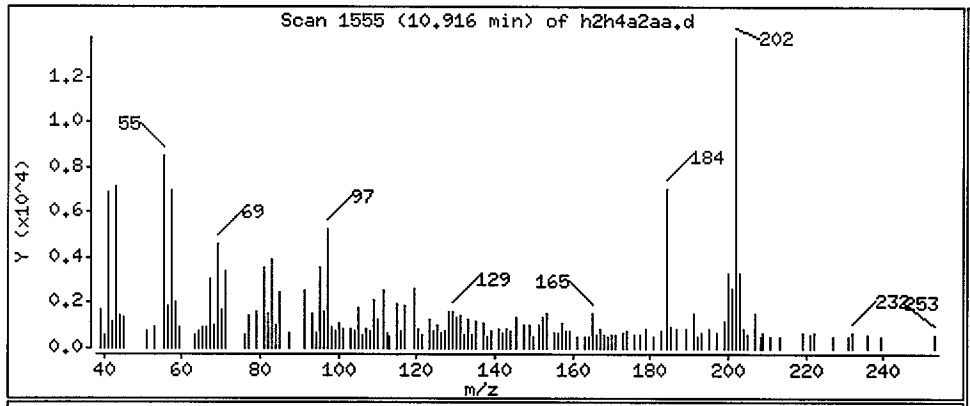
Operator: 60841

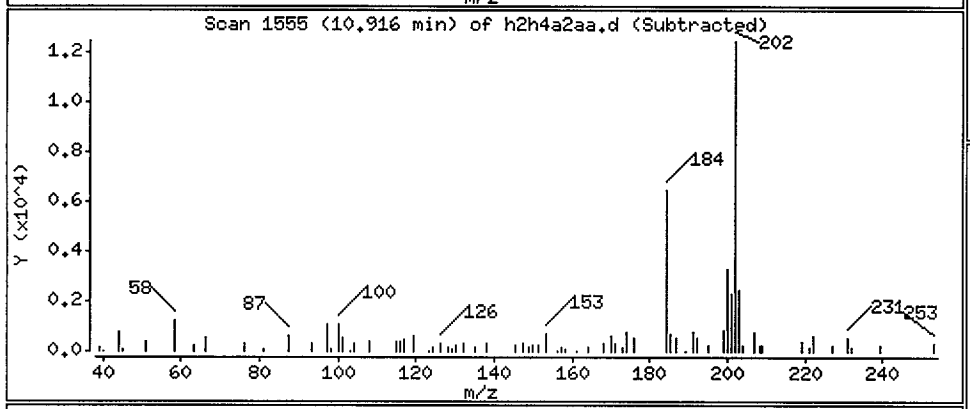
Column phase: ZB-5

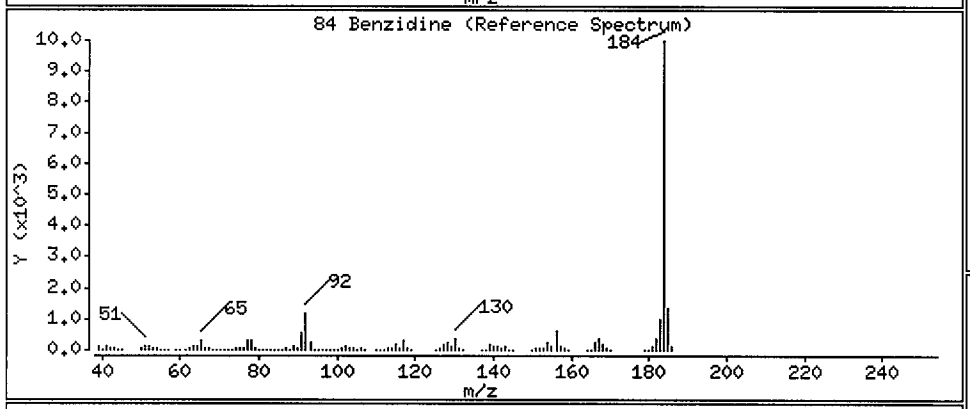
Column diameter: 0.25

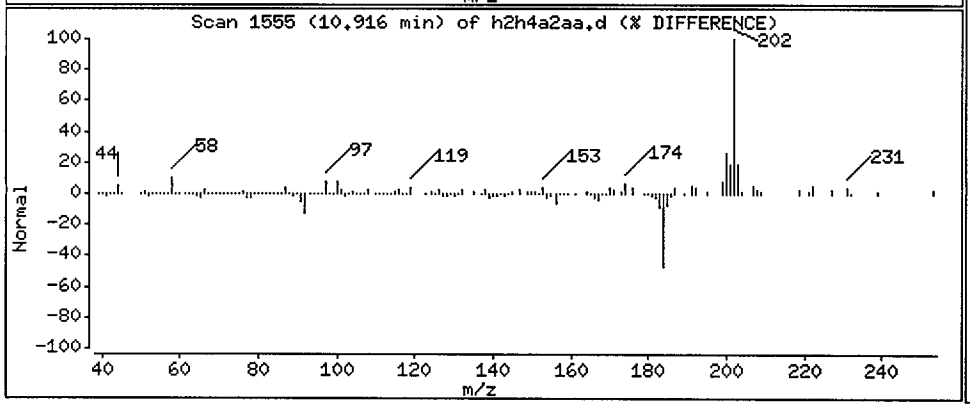
84 Benzidine

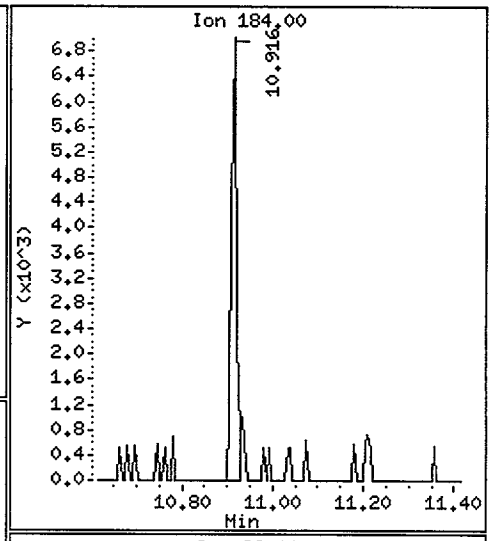
Concentration: 100 ug/Kg

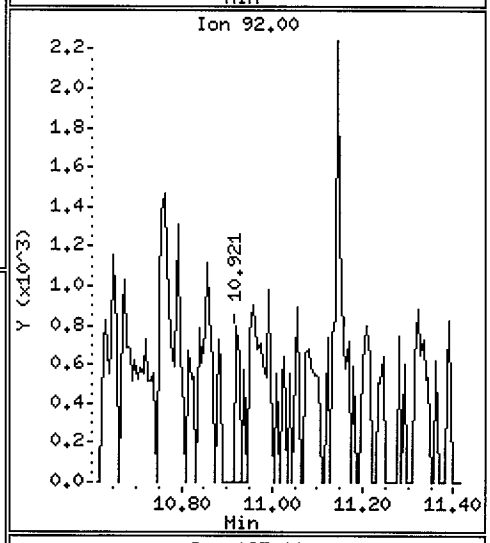


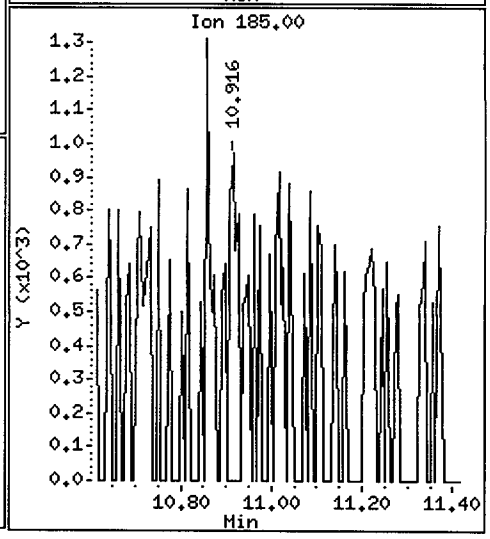












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

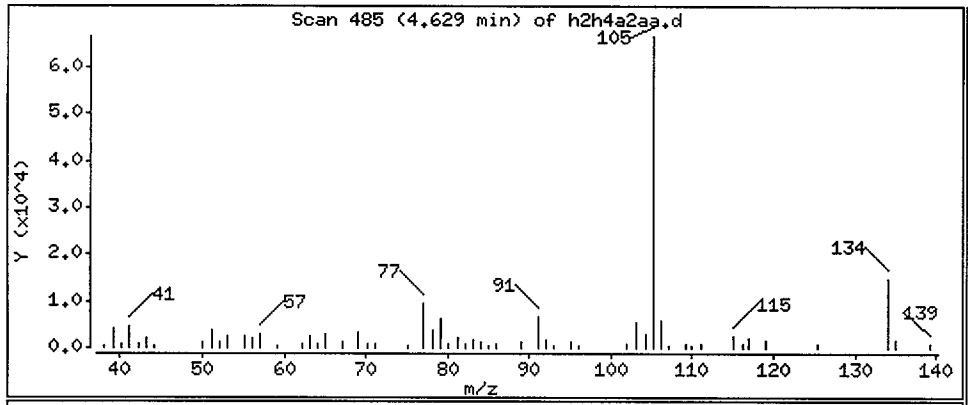
Operator: 60841

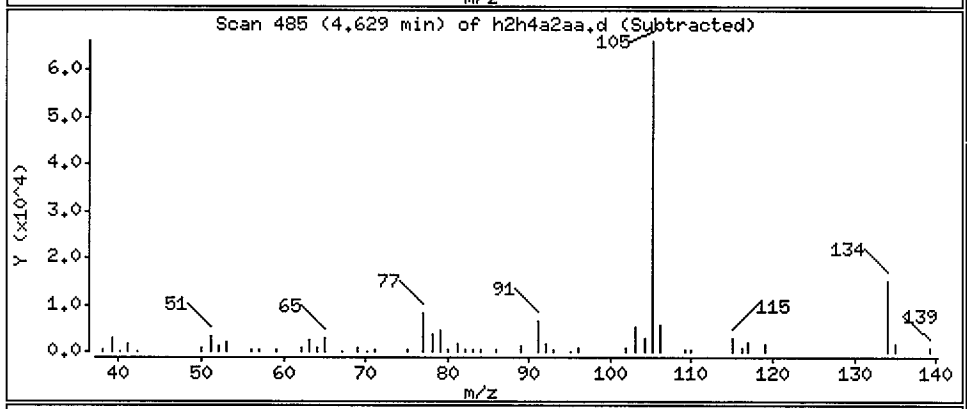
Column phase: ZB-5

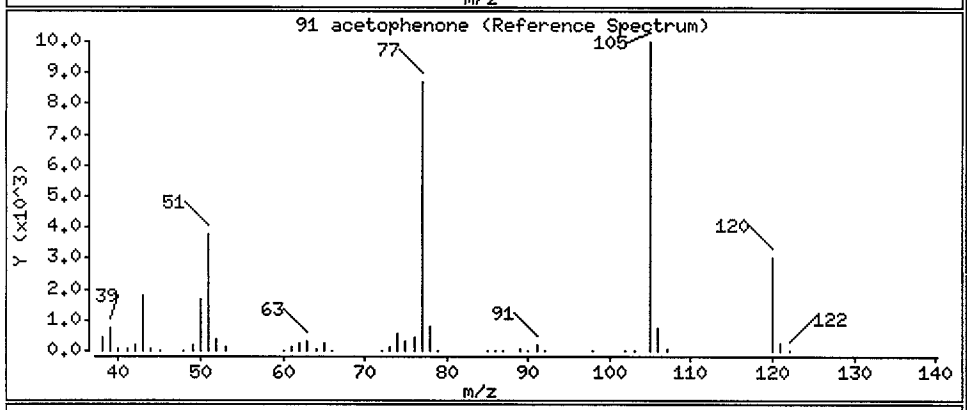
Column diameter: 0.25

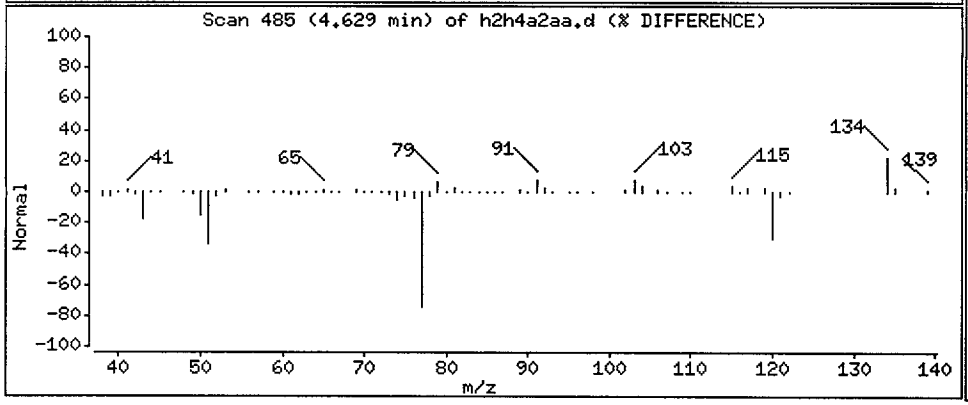
91 acetophenone

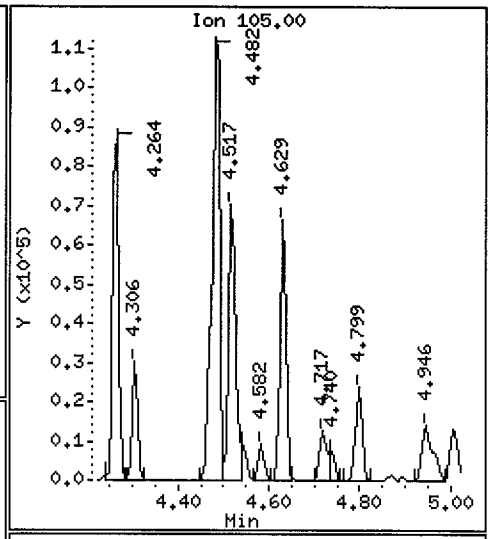
Concentration: 2220 ug/Kg

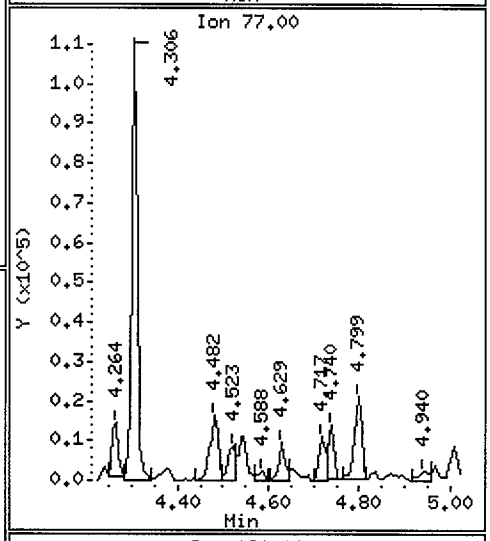


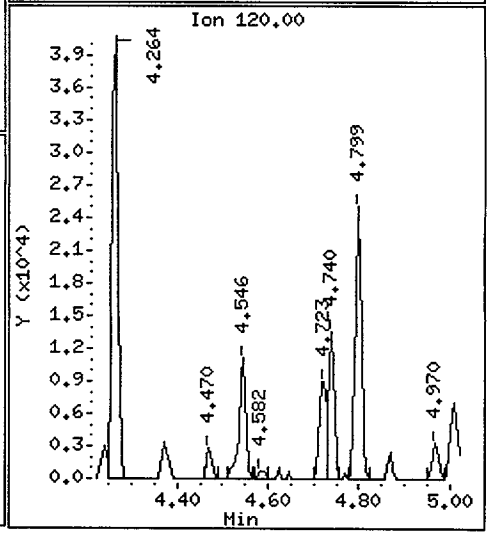












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

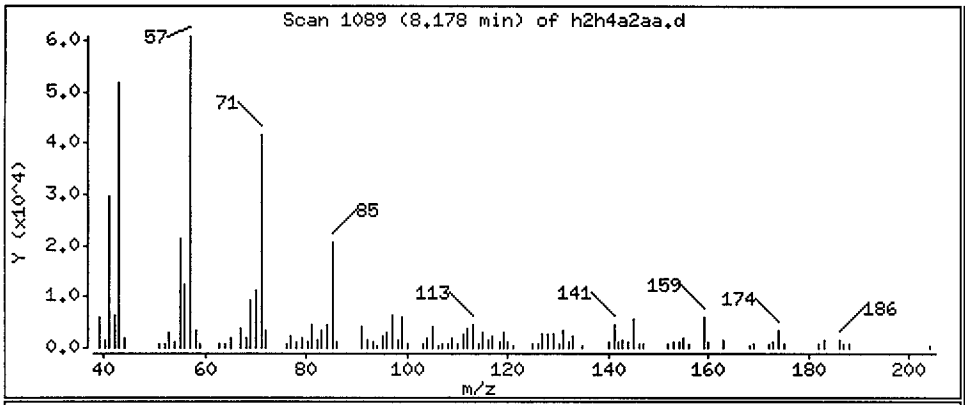
Operator: 60841

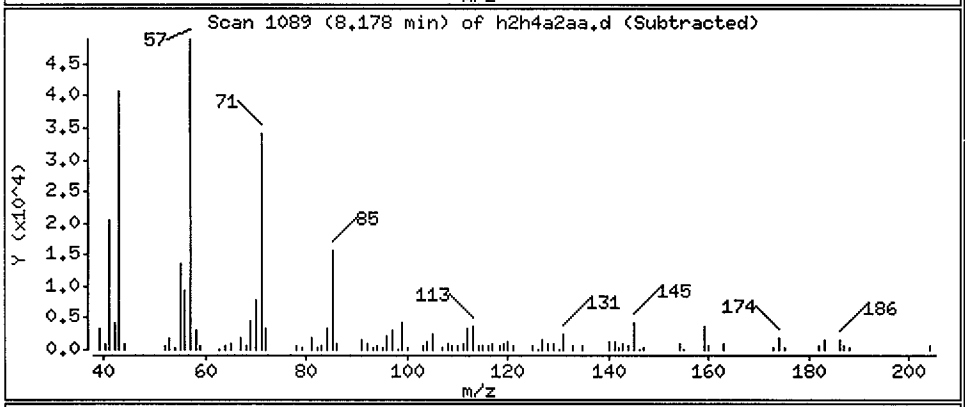
Column phase: ZB-5

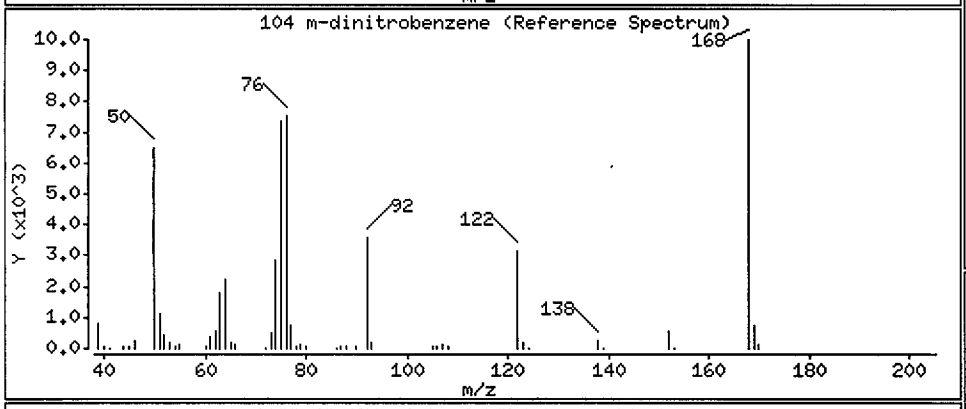
Column diameter: 0.25

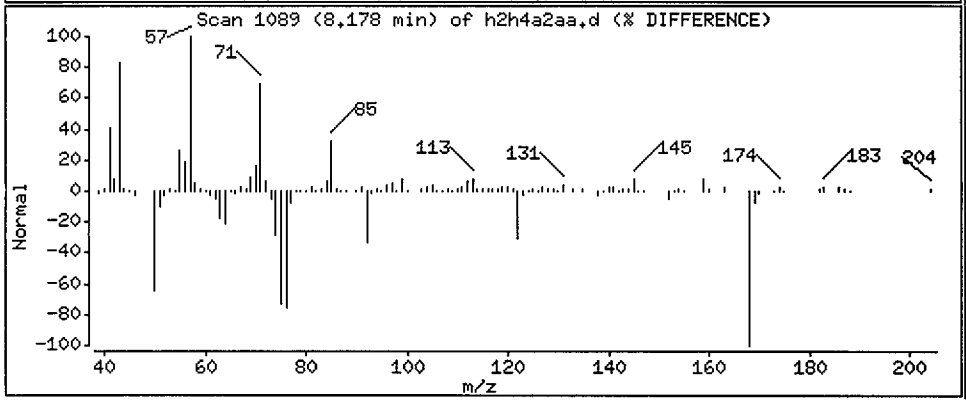
104 m-dinitrobenzene

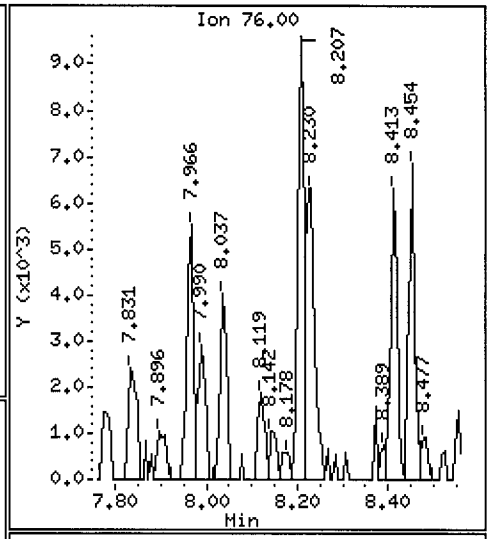
Concentration: 116 ug/Kg

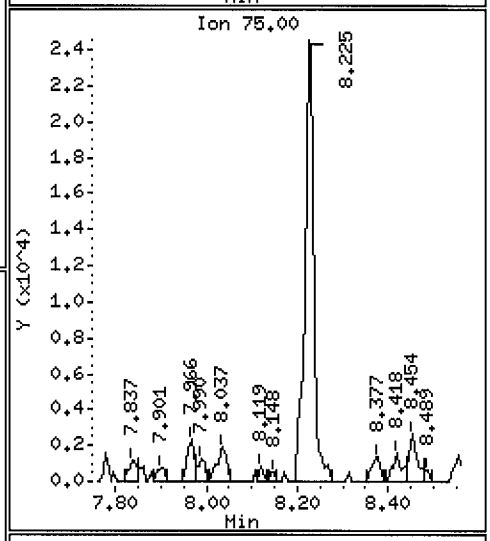


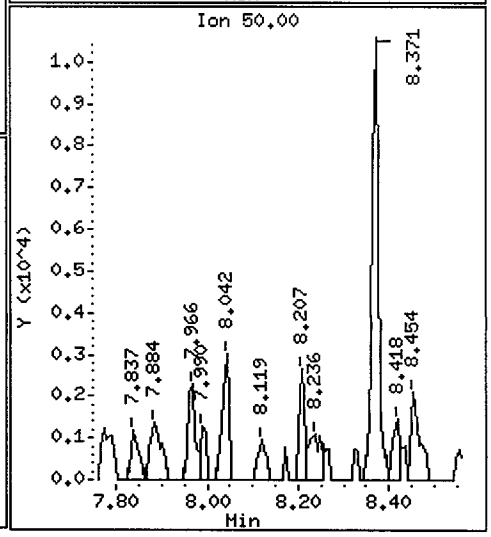












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0

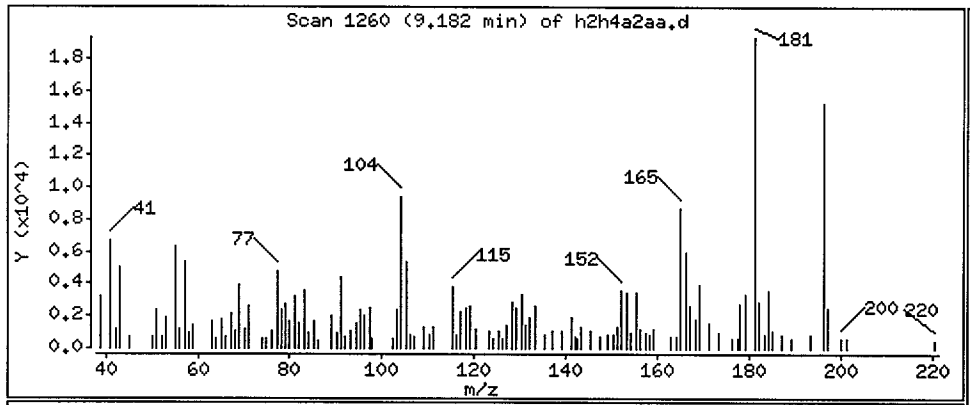
Operator: 60841

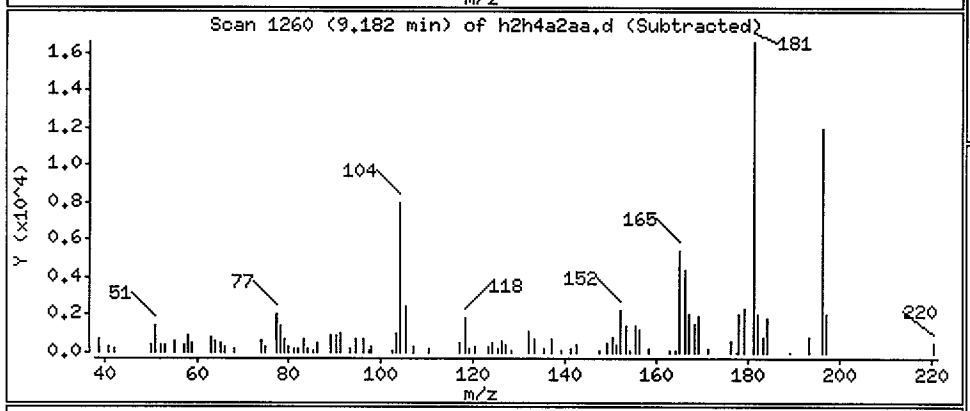
Column phase: ZB-5

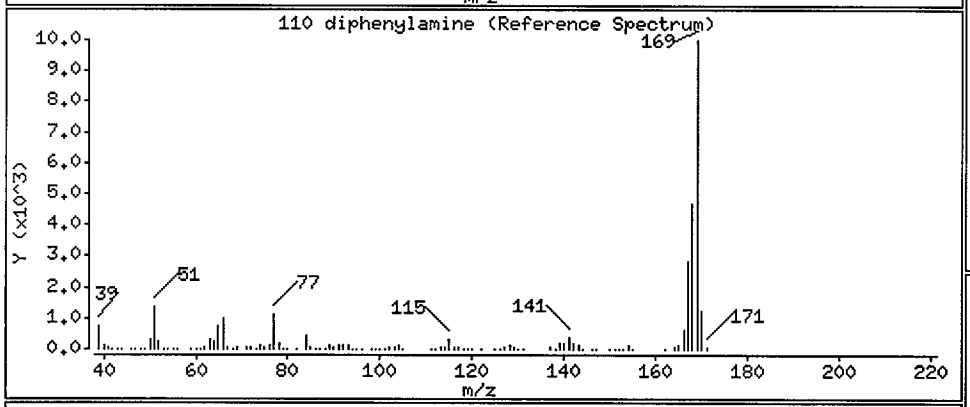
Column diameter: 0.25

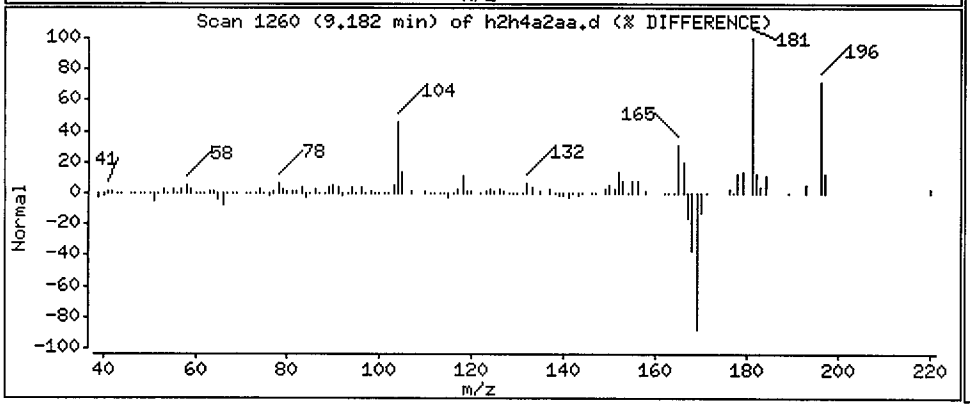
110 diphenylamine

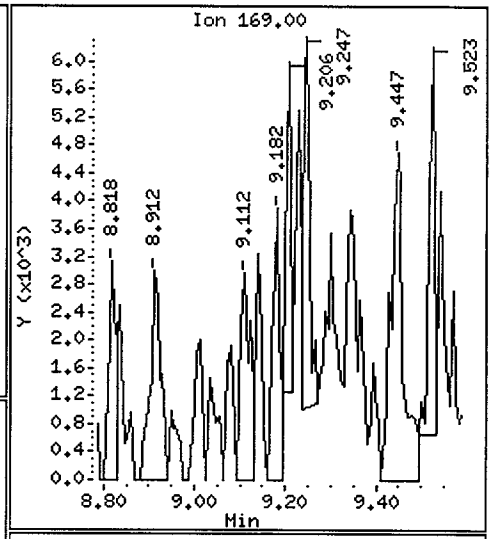
Concentration: 107 ug/Kg

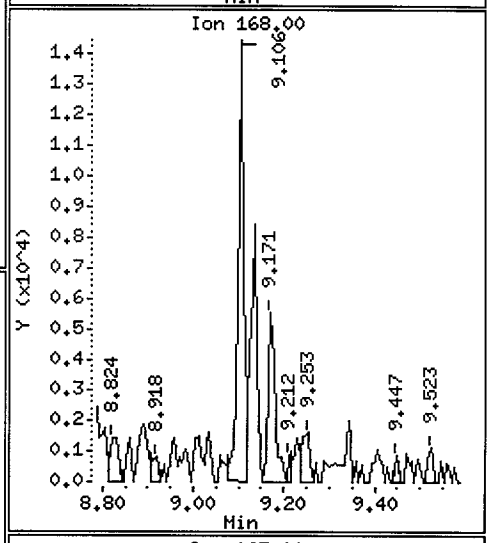


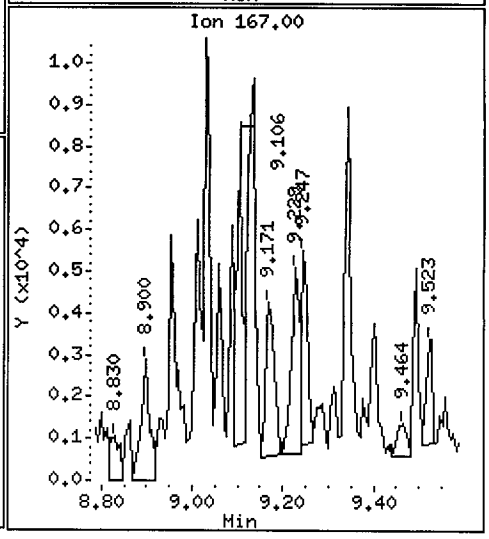












Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 21-Apr-2006 15:05

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Lab Smp Id: H2H4A1AA Client Smp ID: G-2988-R2-SPENT ACT
Inj Date : 18-APR-2006 14:05
Operator : 60841 Inst ID: md.i
Smp Info : H2H4A1AA,5,0,,,,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 10
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.165	450294	20.000
* 2 Naphthalene-d8	5.751	861026	20.000
* 3 Acenaphthene-d10	8.413	685972	20.000
* 4 Phenanthrene-d10	9.923	787960	20.000
* 5 Chrysene-d12	12.003	689516	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 21-Apr-2006 15:05

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Toluene				CAS #: 108-88-3			
2.232	2575970	114.412806	19100	95	NIST05.1	2400	1
Tetrachloroethylene				CAS #: 127-18-4			
2.537	2318277	102.967261	17200	99	NIST05.1	32248	1
2-Pentanone, 4-hydroxy-4-methyl-				CAS #: 123-42-2			
2.772	11816150	524.819340	87500	56	NIST05.1	7952	1
Ethylbenzene				CAS #: 100-41-4			
2.937	830521	36.8879443	6150	95	NIST05.1	4955	1
p-Xylene				CAS #: 106-42-3			
3.001	2667670	118.485700	19700	97	NIST05.1	4947	1
o-Xylene				CAS #: 95-47-6			
3.195	1038491	46.1250205	7690	97	NIST05.1	4953	1
Ethanol, 2-butoxy-				CAS #: 111-76-2			
3.260	304271	13.5143262	2250	74	NIST05.1	8550	1
Benzene, (1-methylethyl)-				CAS #: 98-82-8			
3.448	887400	39.4142494	6570	91	NIST05.1	9119	1
Ethanol, 2,2'-oxybis-				CAS #: 111-46-6			
3.718	523527	23.2526749	3880	78	NIST05.1	4853	1
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
3.747	531209	23.5938742	3930	95	NIST05.1	9132	1
Benzene, 1,2,4-trimethyl-				CAS #: 95-63-6			
4.018	850727	37.7854024	6300	94	NIST05.1	9113	1
Benzene, 1,2-diethyl-				CAS #: 135-01-3			
4.264	425461	18.8970317	3150	70	NIST05.1	14355	1
Limonene				CAS #: 138-86-3			
4.306	3305595	146.819411	24500	95	NIST05.1	15154	1
Benzene, 1-methyl-3-propyl-				CAS #: 1074-43-7			
4.482	344025	15.2800171	2550	95	NIST05.1	14369	1
Benzene, 1,2,4,5-tetramethyl-				CAS #: 95-93-2			
4.546	333704	14.8216054	2470	91	NIST05.1	14385	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d
Report Date: 21-Apr-2006 15:05

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Benzene, 1-ethyl-2,4-dimethyl-					CAS #: 874-41-9		
4.740	345876	15.3622300	2560	95	NIST05.l	14390	1
Undecane					CAS #: 1120-21-4		
4.881	382326	16.9811723	2830	91	NIST05.l	27236	1
Hexanoic acid, 2-ethyl-					CAS #: 149-57-5		
5.069	429040	9.96578501	1660	78	NIST05.l	20087	2
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
5.099	412361	9.57836349	1600	91	NIST05.l	14379	2
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
5.140	789136	18.3301317	3060	96	NIST05.l	14385	2
3-Phenylbut-1-ene					CAS #: 934-10-1		
5.440	402602	9.35168044	1560	76	NIST05.l	13589	2
Dodecane					CAS #: 112-40-3		
5.810	344766	8.00825991	1330	87	NIST05.l	36431	2
Tridecane					CAS #: 629-50-5		
6.703	389080	9.03759004	1510	94	NIST05.l	46087	2
Naphthalene, 2-methyl-					CAS #: 91-57-6		
6.944	736553	17.1087284	2850	95	NIST05.l	18568	2
Tetradecane					CAS #: 629-59-4		
7.684	644411	18.7882596	3130	95	NIST05.l	55974	3
Tetradecane					CAS #: 629-59-4		
8.178	306484	8.93575831	1490	72	NIST05.l	55975	3
cis-1,2,3,6-Tetrahydrophthalimide					CAS #: 27813-21-4		
8.371	637461	18.5856274	3100	96	NIST05.l	23873	3
Benzene, 1-methyl-4-(phenylmethyl)-					CAS #: 620-83-7		
8.677	389125	11.3452153	1890	95	NIST05.l	44690	3
3,6,9,12,15-Pentaoxanonadecan-1-ol					CAS #: 1786-94-3		
9.688	303989	7.71584852	1280	87	NIST05.l	120685	4
Ethanol, 2-butoxy-, phosphate (3:1)					CAS #: 78-51-3		
11.656	928097	26.9202455	4490	68	NIST05.l	170615	5

Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

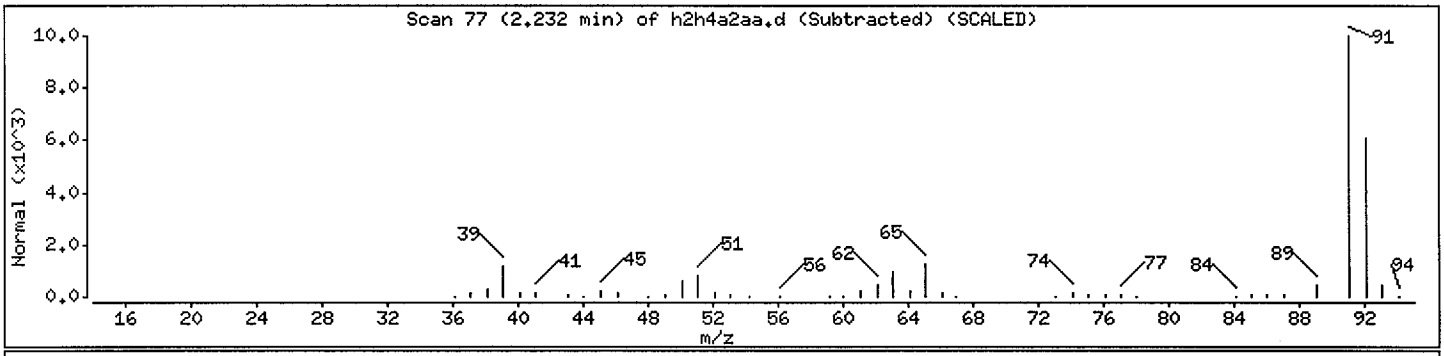
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

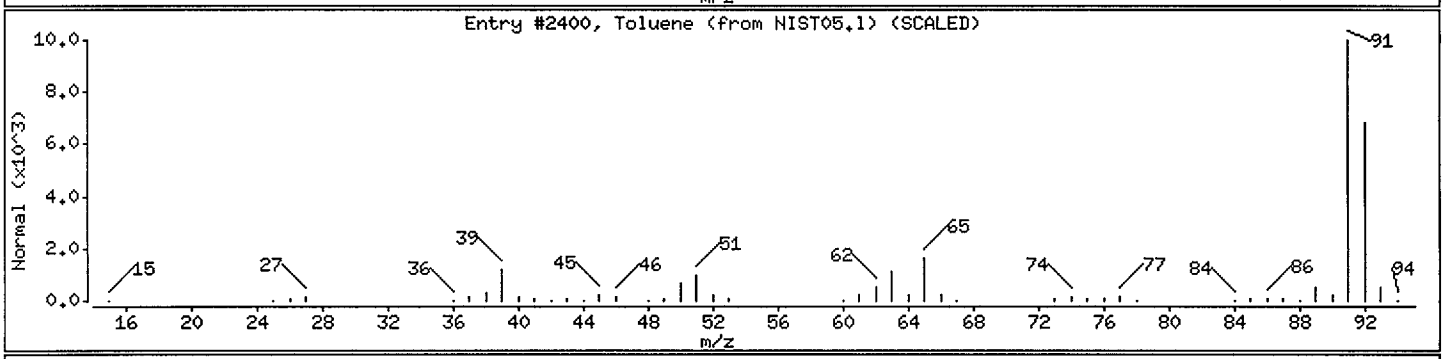
Sample Info: H2H4A1AA,5,0,,,,

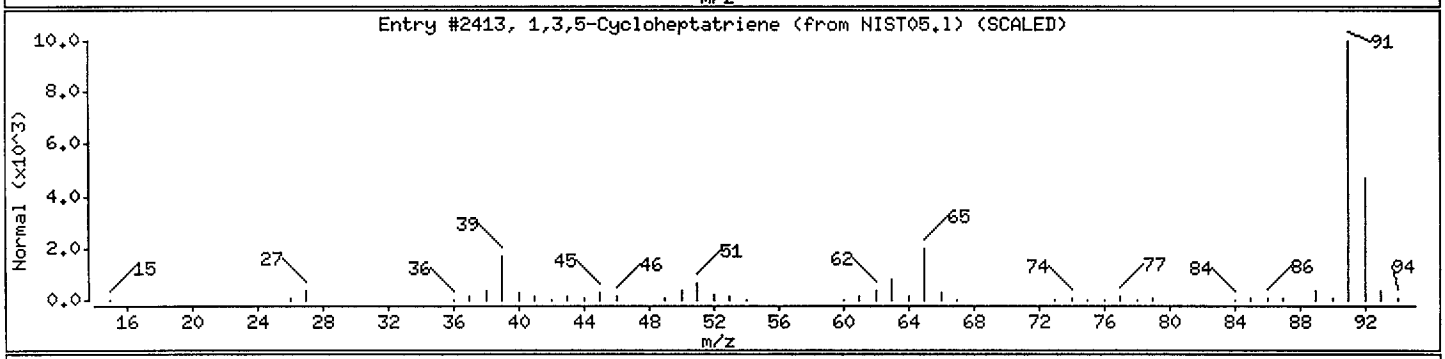
Volume Injected (uL): 1.0 | Operator: 60841

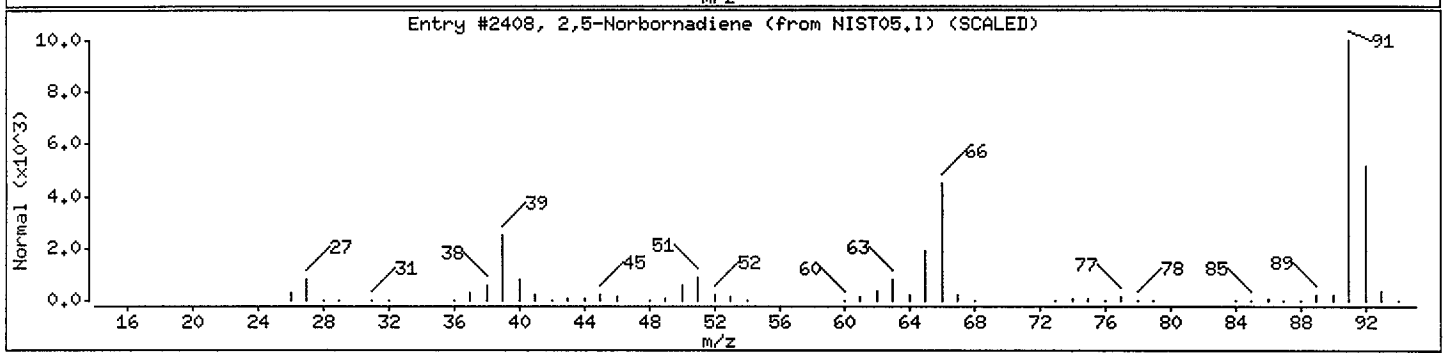
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	NIST05.l	2400	95	C7H8	92
1,3,5-Cycloheptatriene	544-25-2	NIST05.l	2413	90	C7H8	92
2,5-Norbornadiene	121-46-0	NIST05.l	2408	83	C7H8	92









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Date : 18-APR-2006 14:05

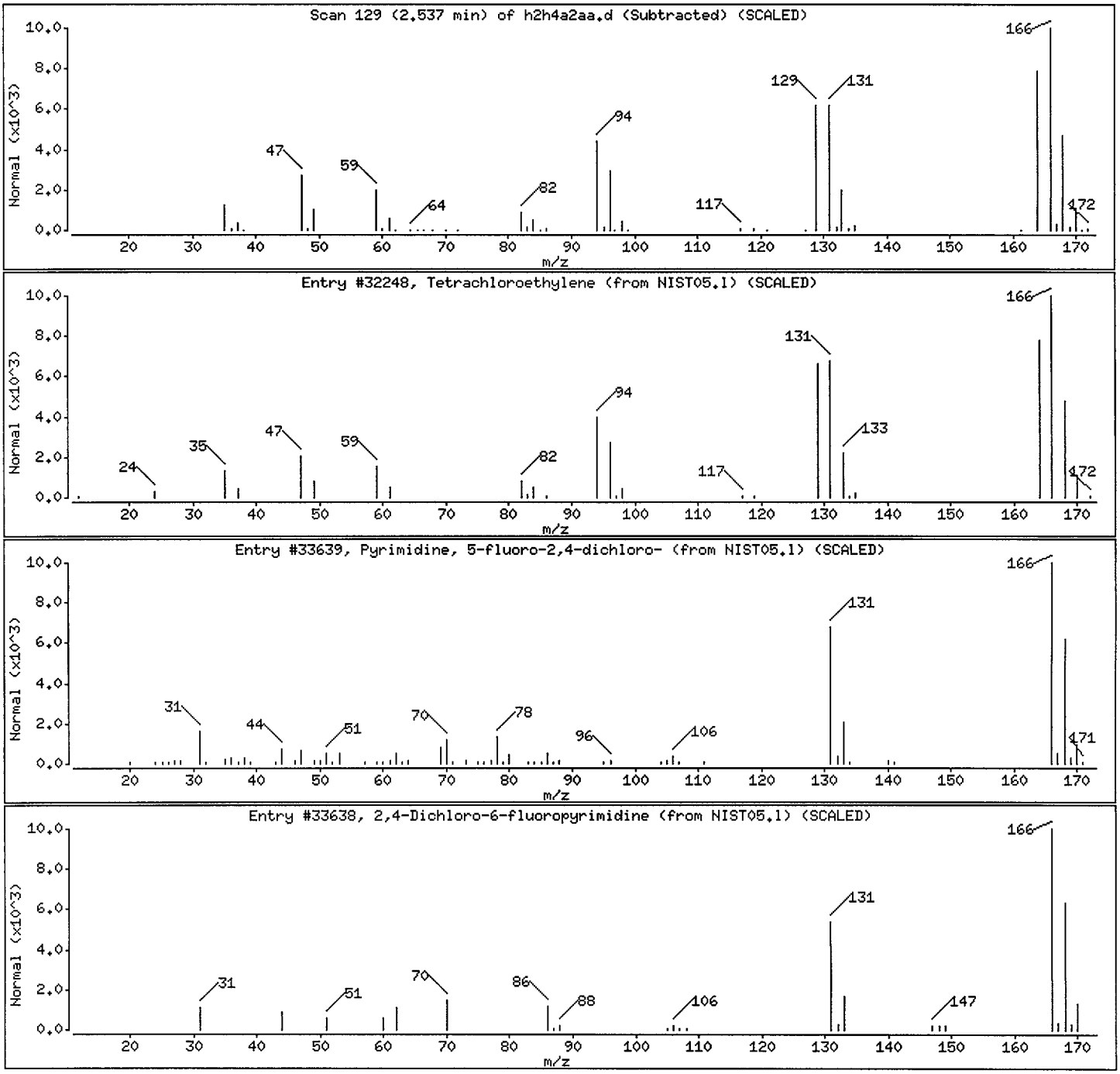
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetrachloroethylene	127-18-4	NIST05.l	32248	99	C2Cl4	164
Pyrimidine, 5-fluoro-2,4-dichloro-	2927-71-1	NIST05.l	33639	38	C4HCl2FN2	166
2,4-Dichloro-6-fluoropyrimidine	3833-57-6	NIST05.l	33638	35	C4HCl2FN2	166



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

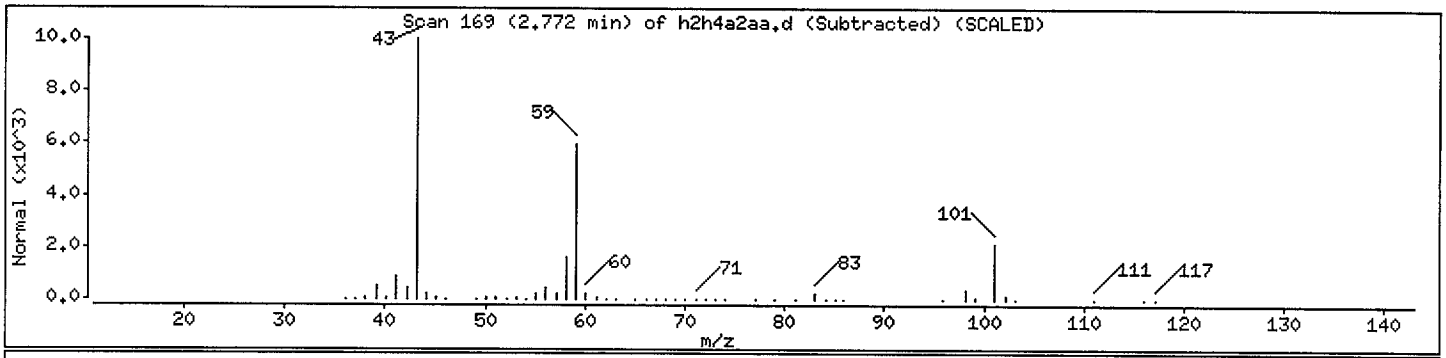
Volume Injected (uL): 1.0

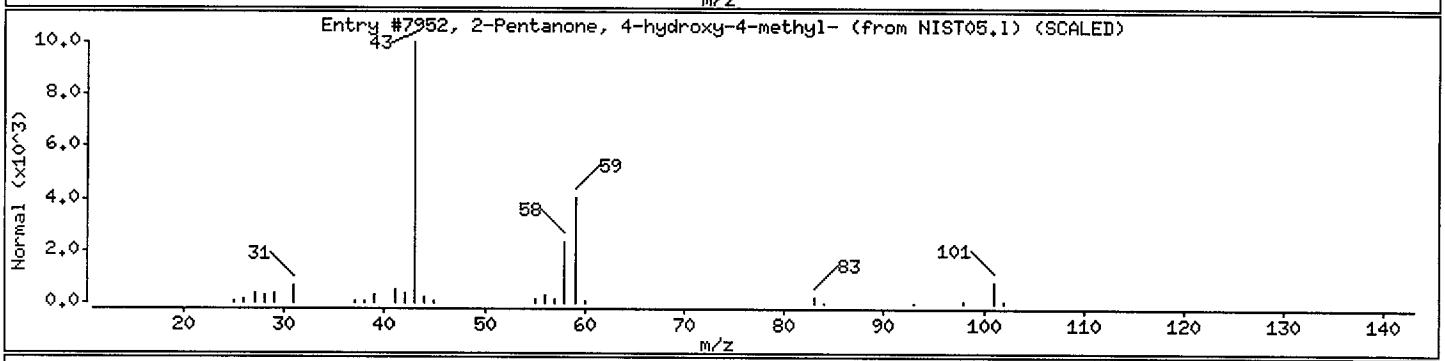
Operator: 60841

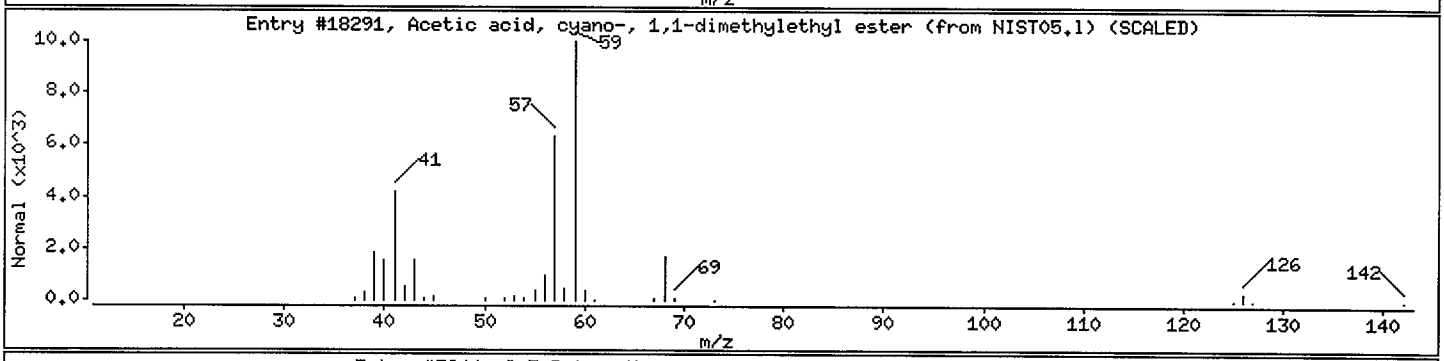
Column phase: ZB-5

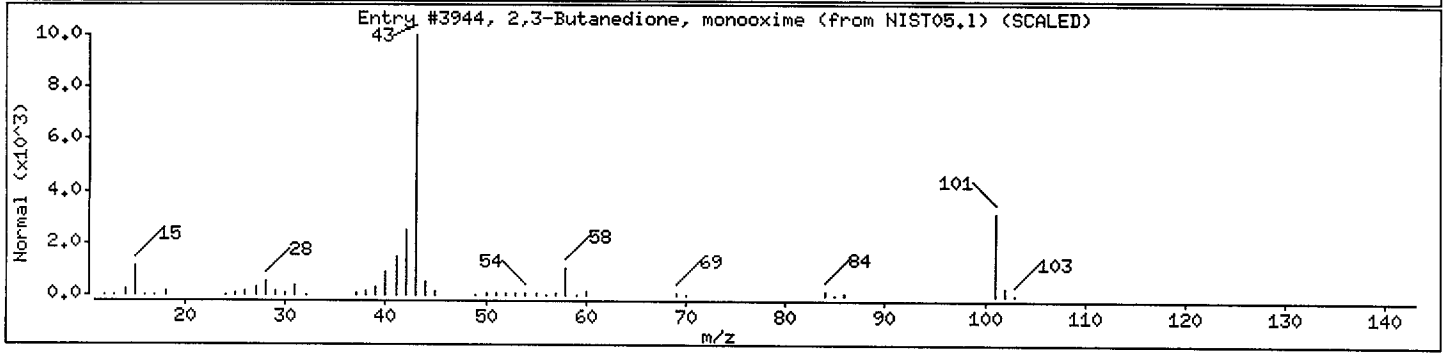
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.1	7952	56	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.1	18291	17	C7H11NO2	141
2,3-Butanedione, monooxime	57-71-6	NIST05.1	3944	9	C4H7NO2	101









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Date : 18-APR-2006 14:05

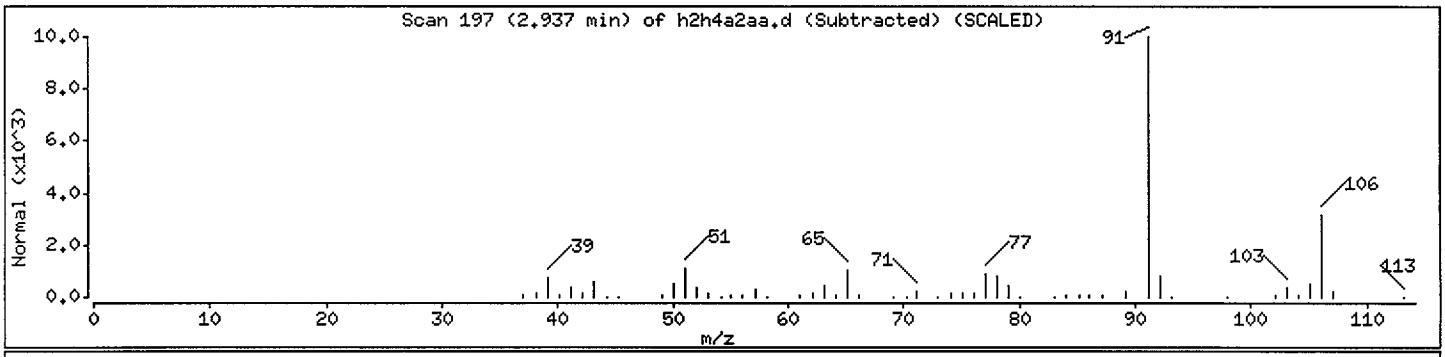
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

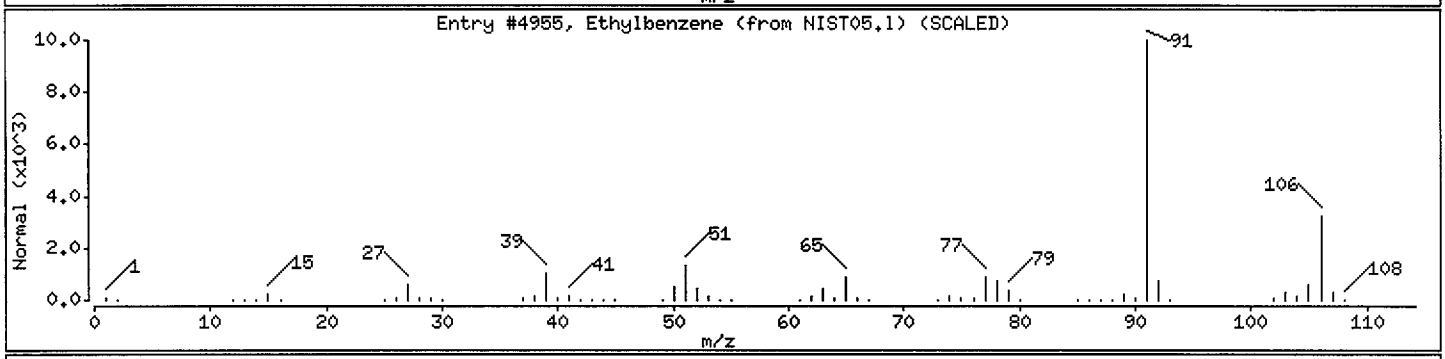
Sample Info: H2H4A1AA,5,0,,,,

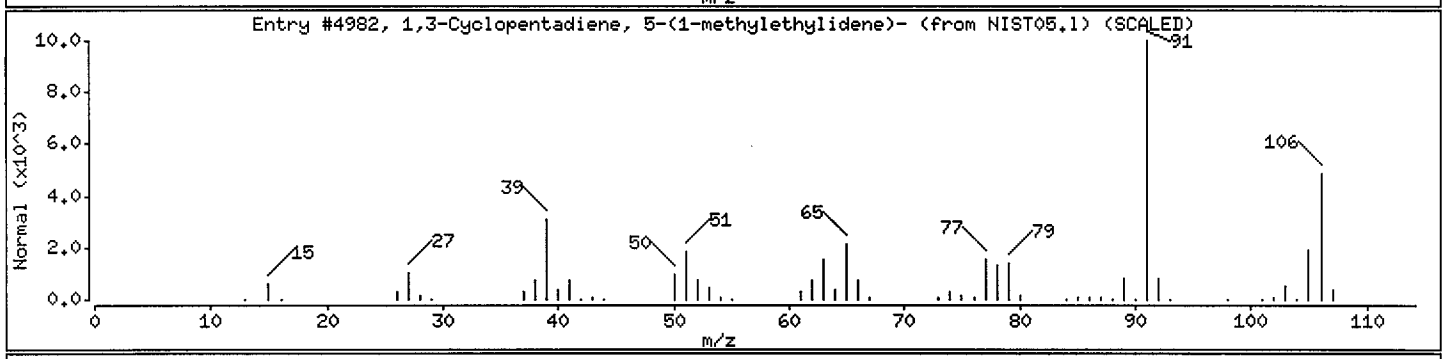
Volume Injected (uL): 1.0 | Operator: 60841

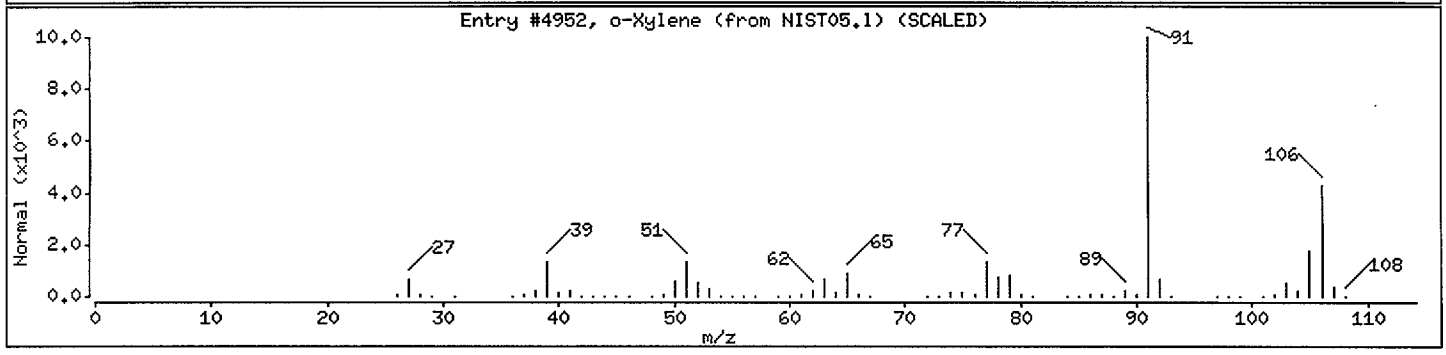
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethylbenzene	100-41-4	NIST05.1	4955	95	C8H10	106
1,3-Cyclopentadiene, 5-(1-methylethylide	2175-91-9	NIST05.1	4982	74	C8H10	106
o-Xylene	95-47-6	NIST05.1	4952	72	C8H10	106









Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

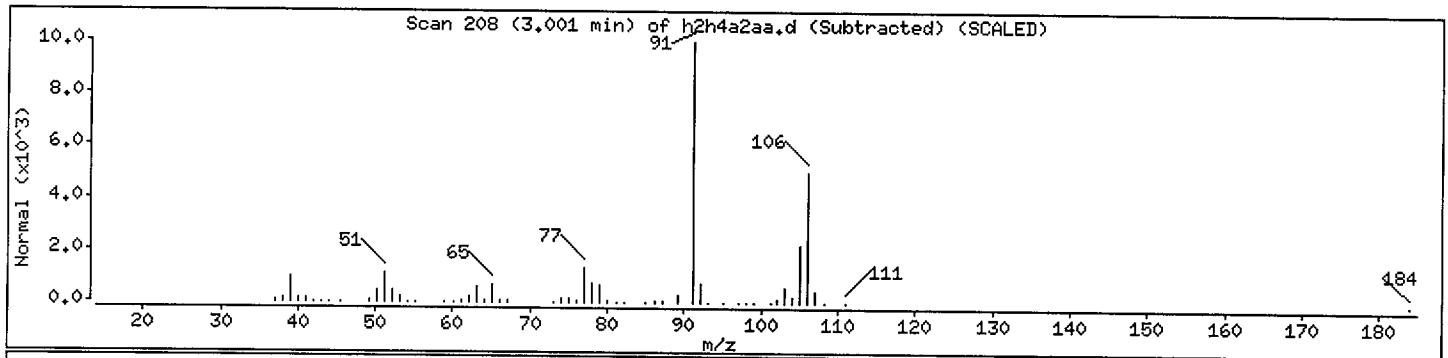
Volume Injected (uL): 1.0

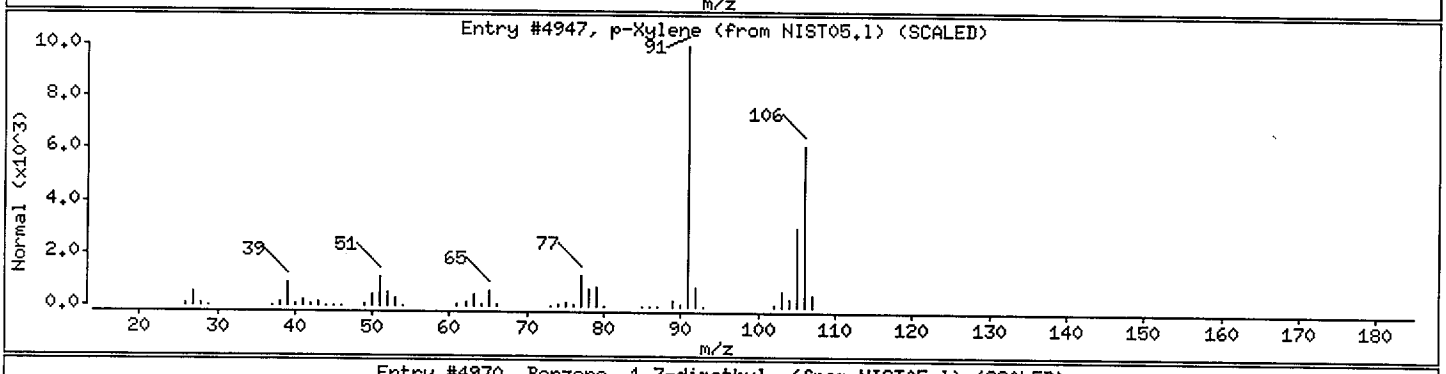
Operator: 60841

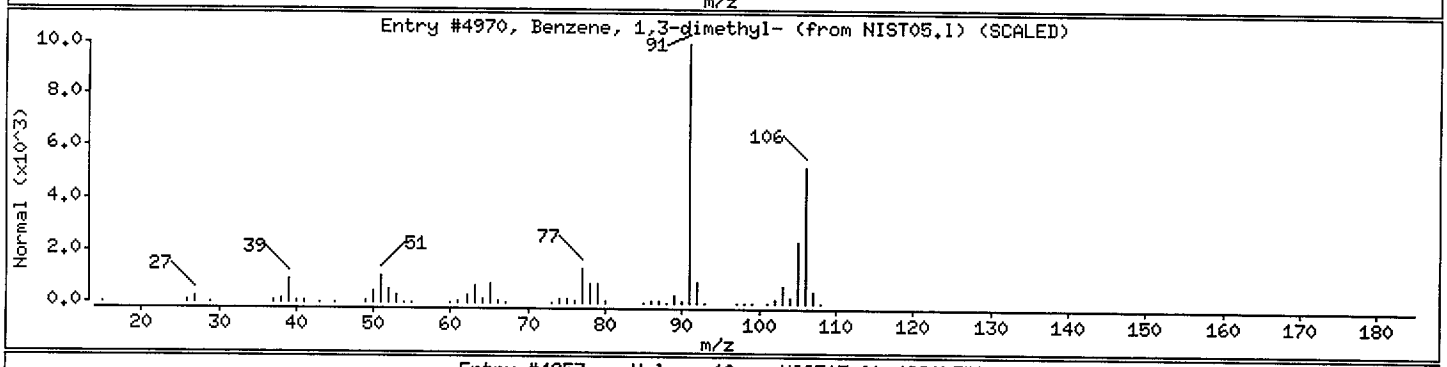
Column phase: ZB-5

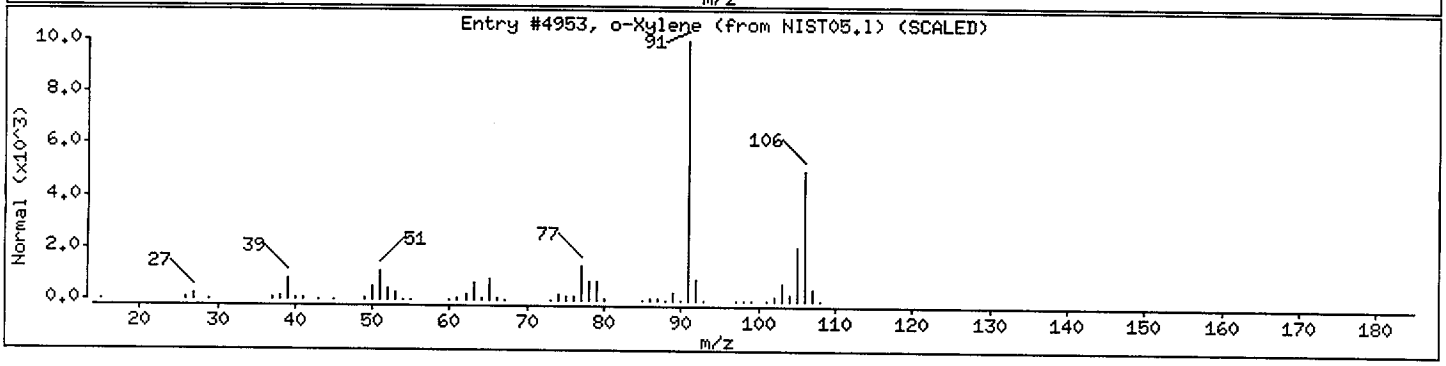
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
p-Xylene	106-42-3	NIST05.1	4947	97	C8H10	106
Benzene, 1,3-dimethyl-	108-38-3	NIST05.1	4970	97	C8H10	106
o-Xylene	95-47-6	NIST05.1	4953	97	C8H10	106









Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

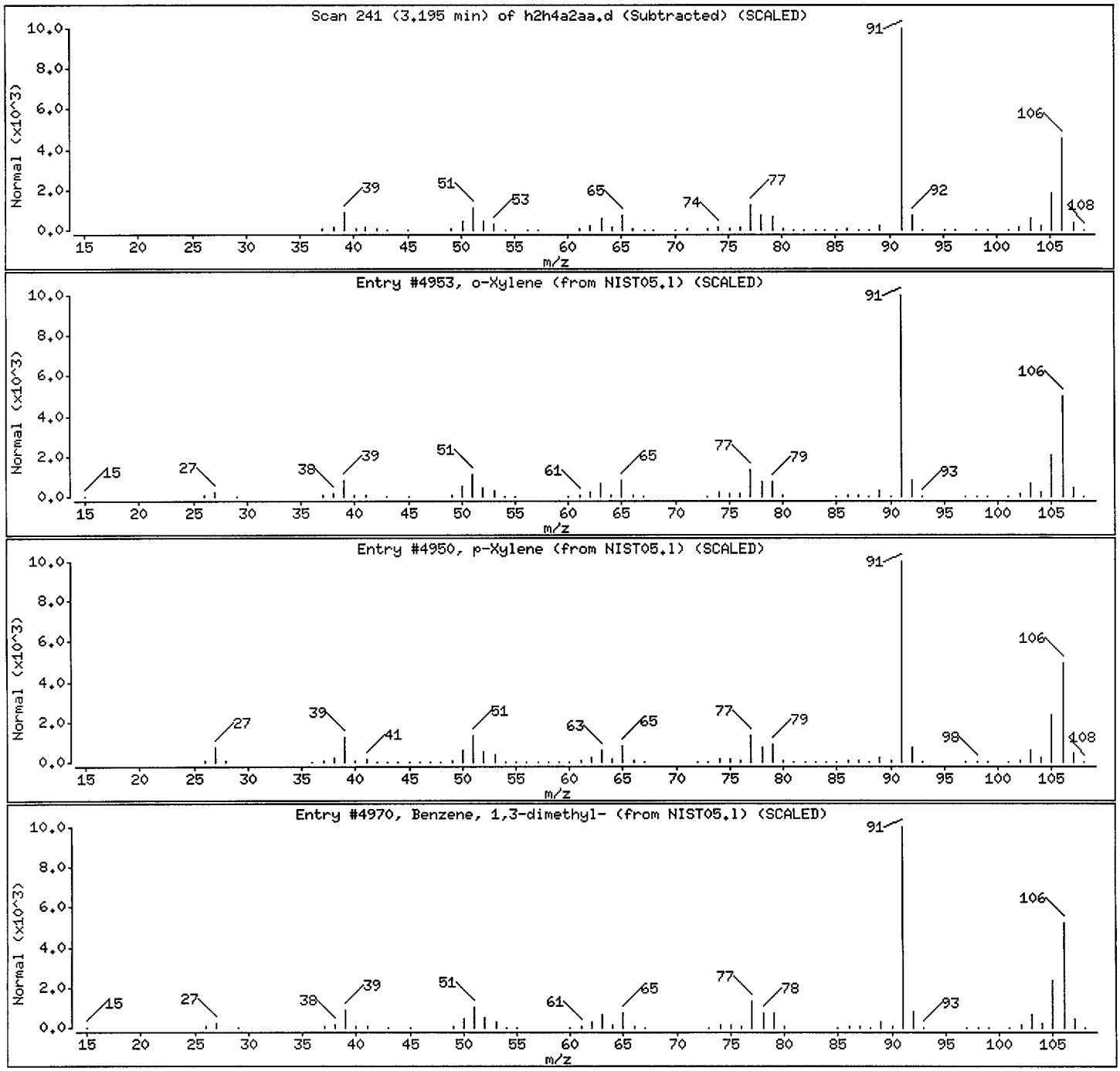
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
o-Xylene	95-47-6	NIST05.1	4953	97	C8H10	106
p-Xylene	106-42-3	NIST05.1	4950	97	C8H10	106
Benzene, 1,3-dimethyl-	108-38-3	NIST05.1	4970	97	C8H10	106



Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

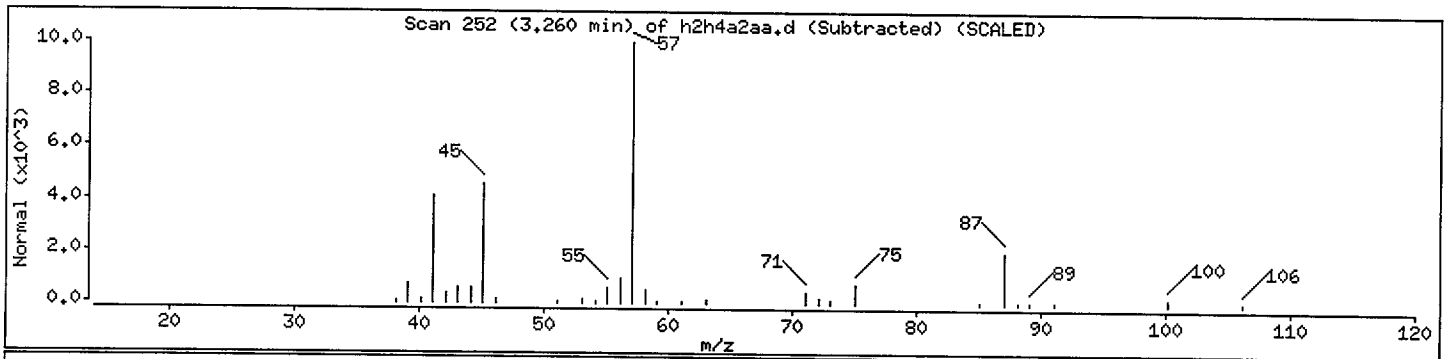
Volume Injected (uL): 1.0

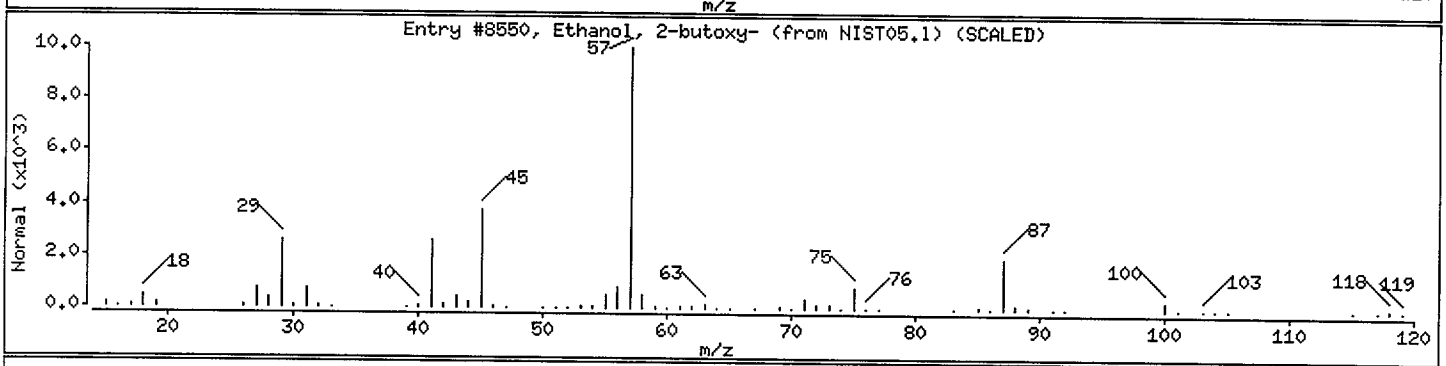
Operator: 60841

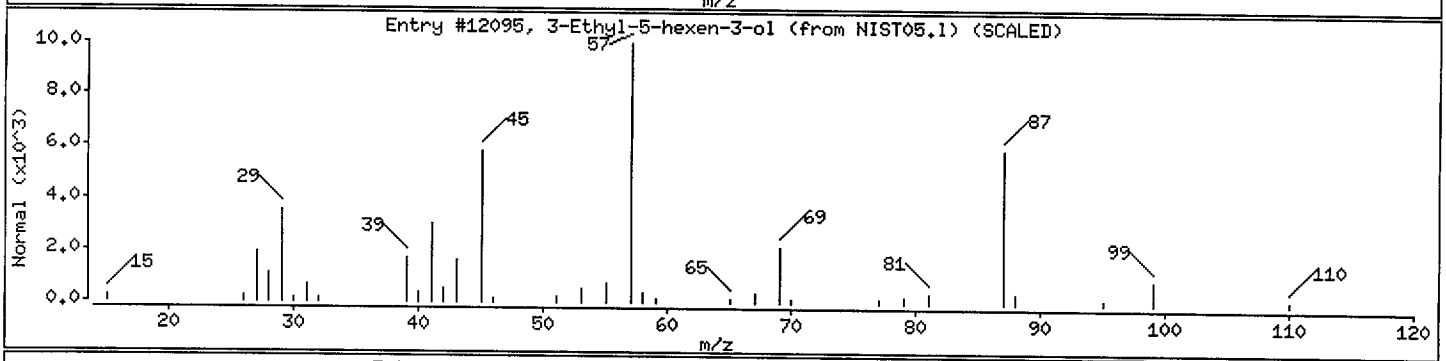
Column phase: ZB-5

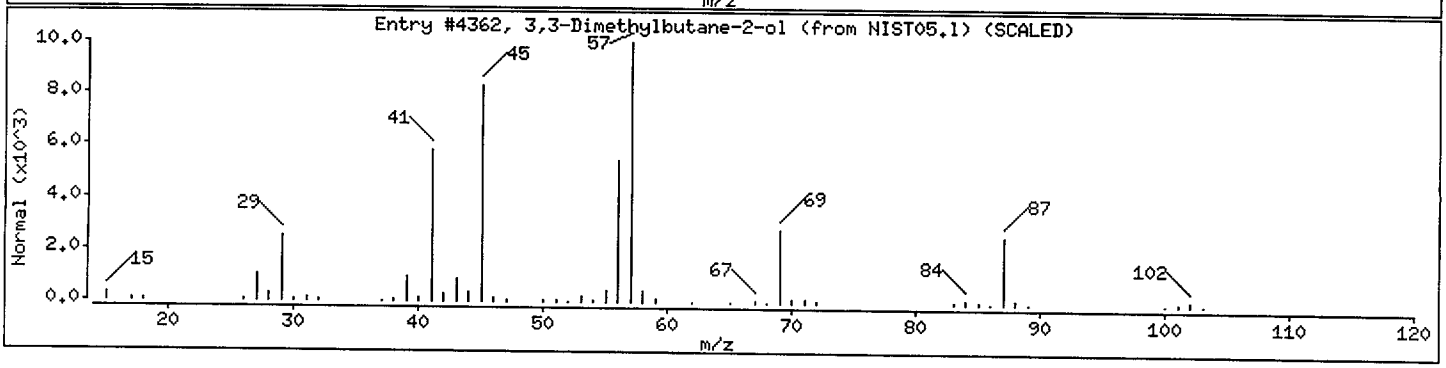
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-	111-76-2	NIST05.1	8550	74	C6H14O2	118
3-Ethyl-5-hexen-3-ol	1907-46-6	NIST05.1	12095	59	C8H16O	128
3,3-Dimethylbutane-2-ol	464-07-3	NIST05.1	4362	40	C6H14O	102









Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

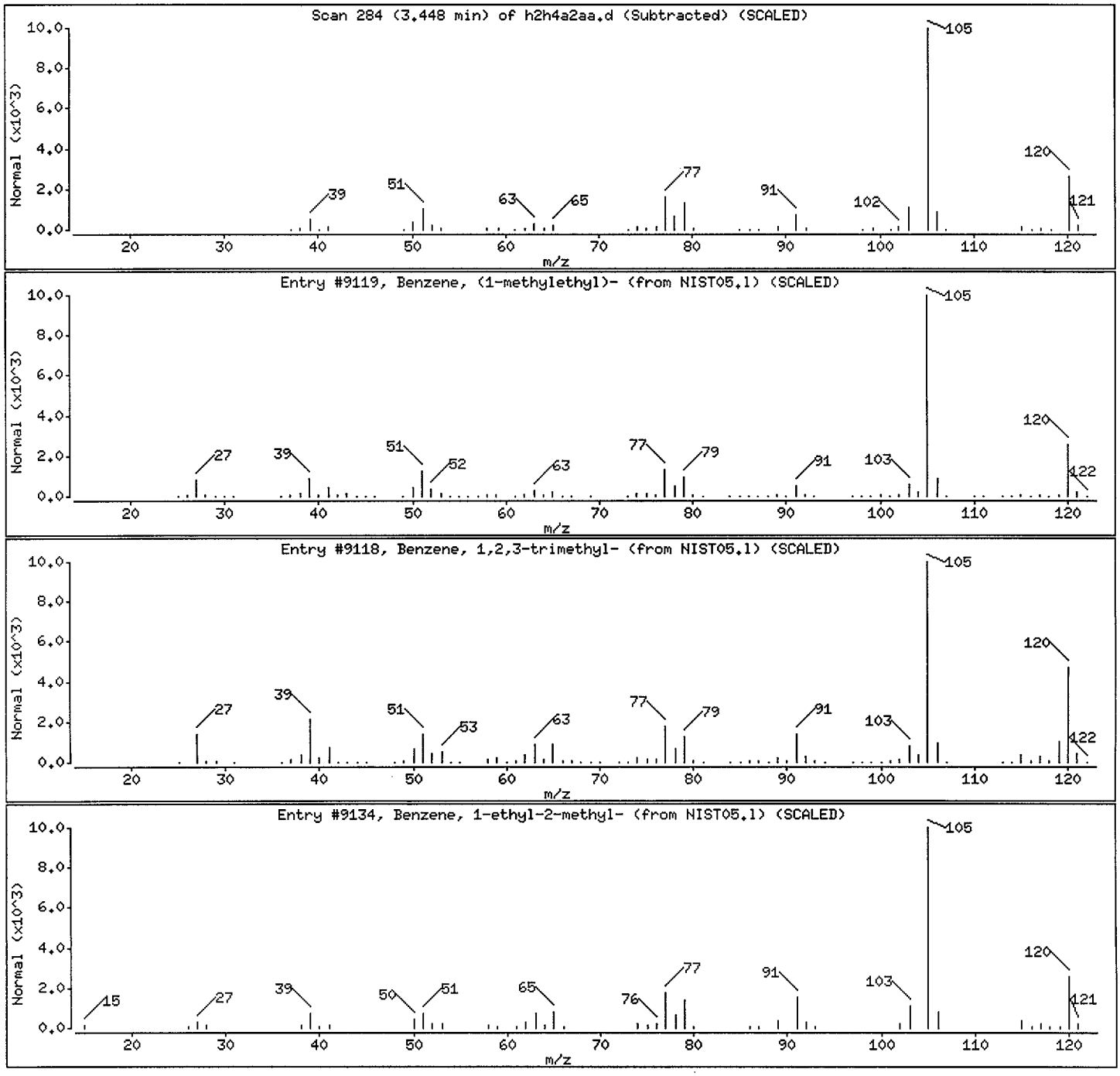
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (1-methylethyl)-	98-82-8	NIST05.l	9119	91	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.l	9118	90	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST05.l	9134	80	C9H12	120



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

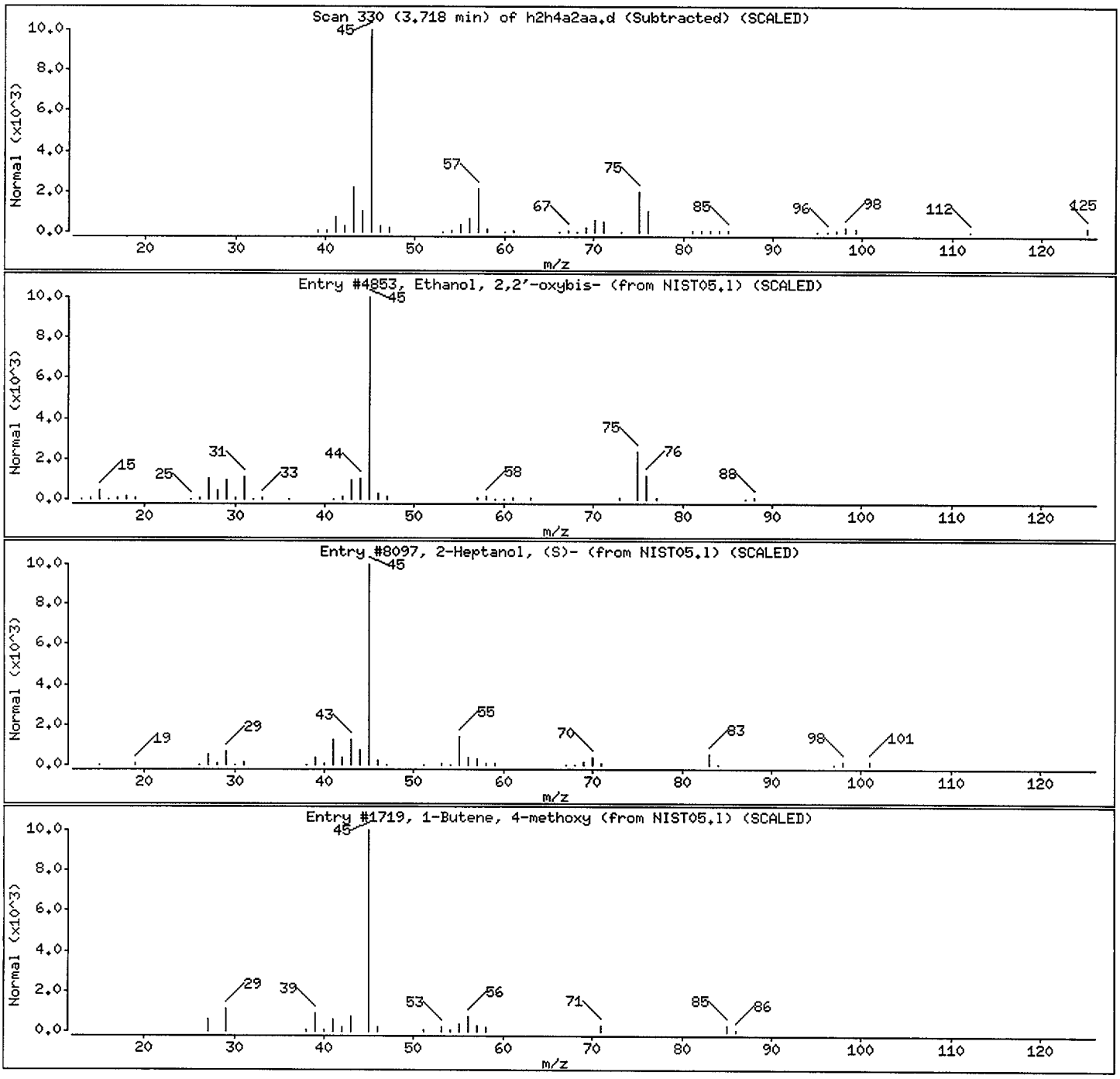
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2,2'-oxybis-	111-46-6	NIST05.1	4853	78	C4H10O3	106
2-Heptanol, (S)-	6033-23-4	NIST05.1	8097	42	C7H16O	116
1-Butene, 4-methoxy	4696-30-4	NIST05.1	1719	38	C5H10O	86



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Date : 18-APR-2006 14:05

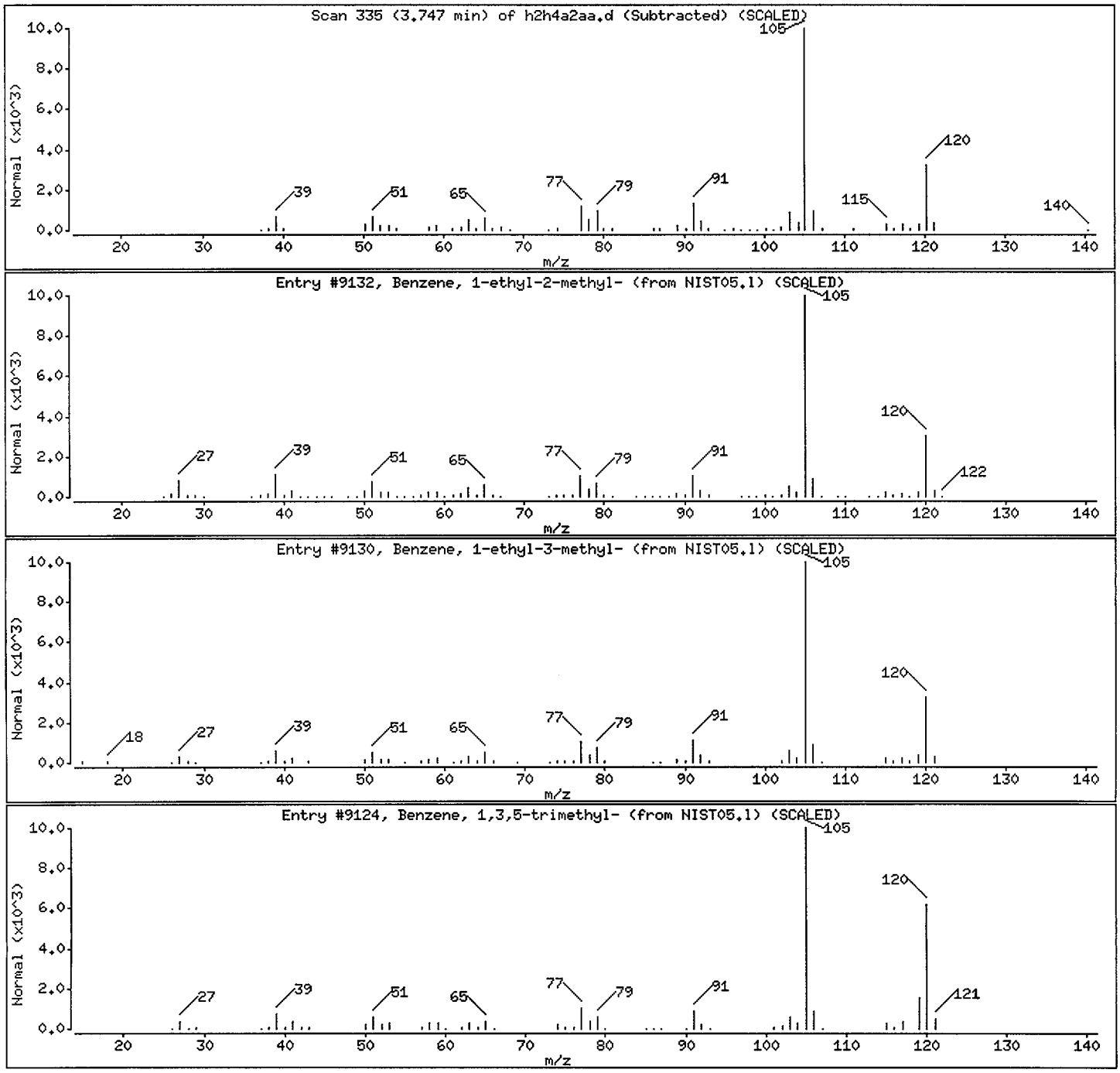
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST05.1	9132	95	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST05.1	9130	95	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIST05.1	9124	91	C9H12	120



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

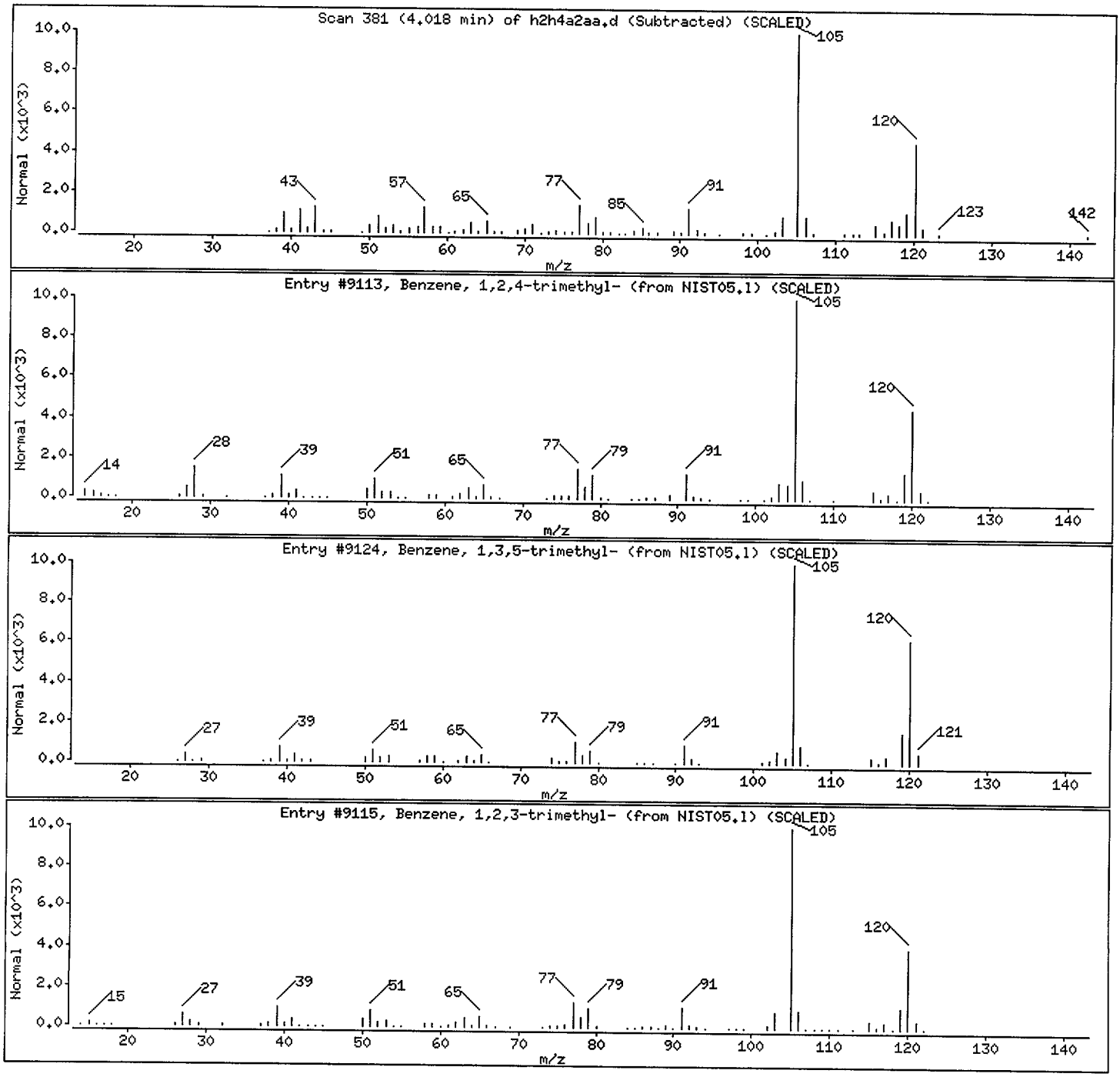
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4-trimethyl-	95-63-6	NIST05.l	9113	94	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIST05.l	9124	93	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.l	9115	90	C9H12	120



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Date : 18-APR-2006 14:05

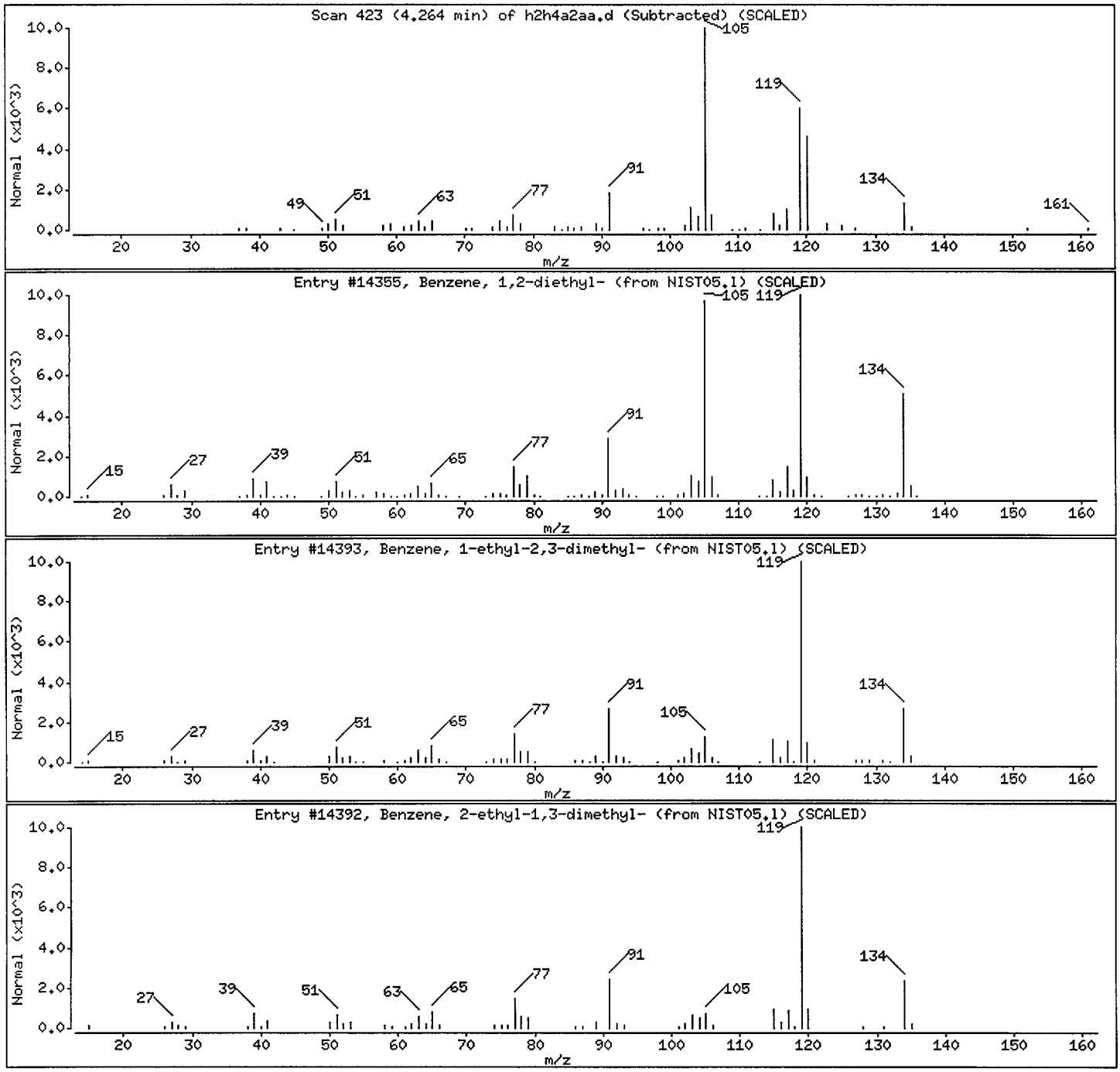
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2-diethyl-	135-01-3	NIST05.1	14355	70	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST05.1	14393	53	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST05.1	14392	53	C10H14	134



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Date : 18-APR-2006 14:05

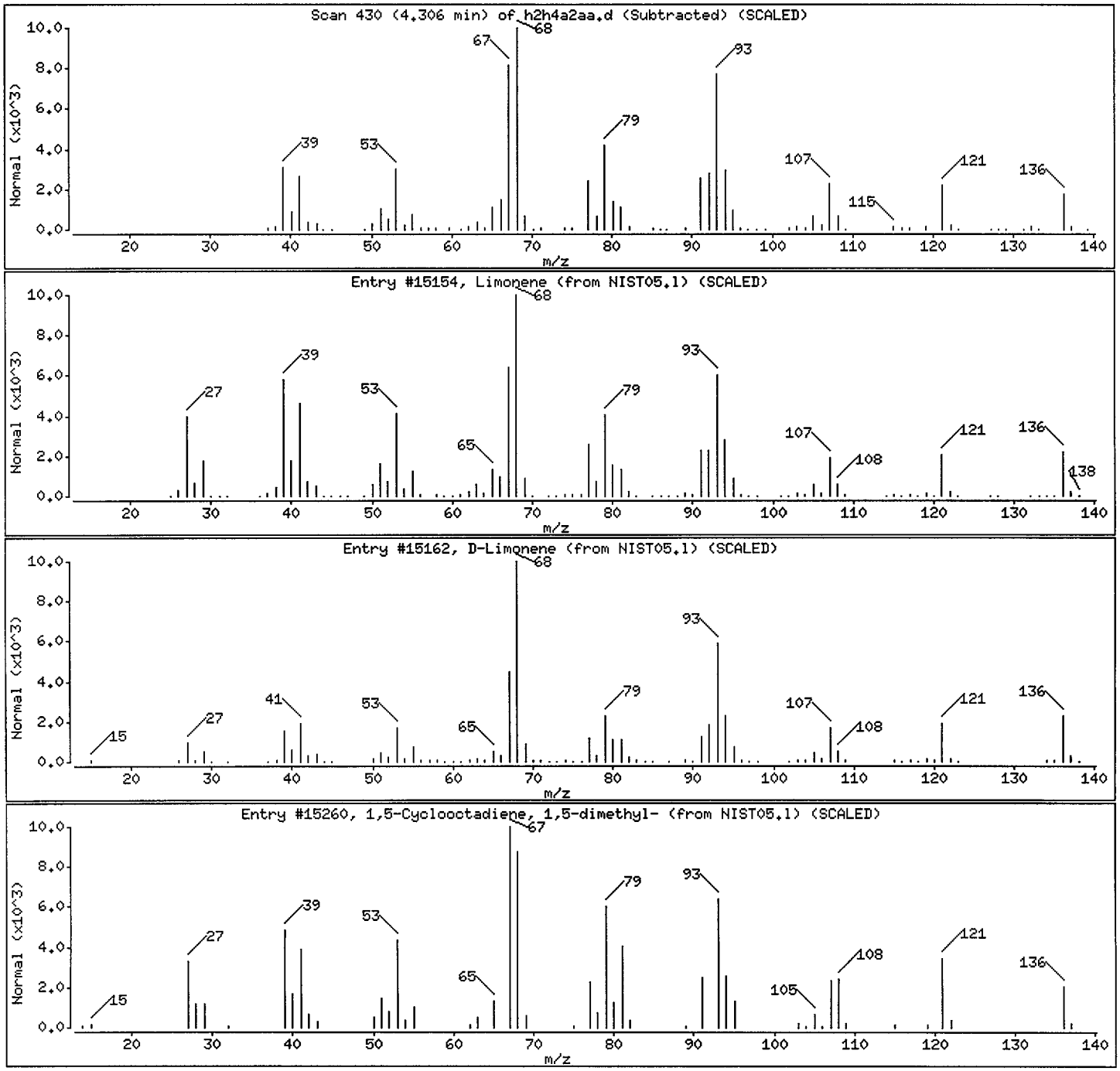
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Limonene	138-86-3	NIST05.1	15154	95	C10H16	136
D-Limonene	5989-27-5	NIST05.1	15162	93	C10H16	136
1,5-Cyclooctadiene, 1,5-dimethyl-	3760-14-3	NIST05.1	15260	64	C10H16	136



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

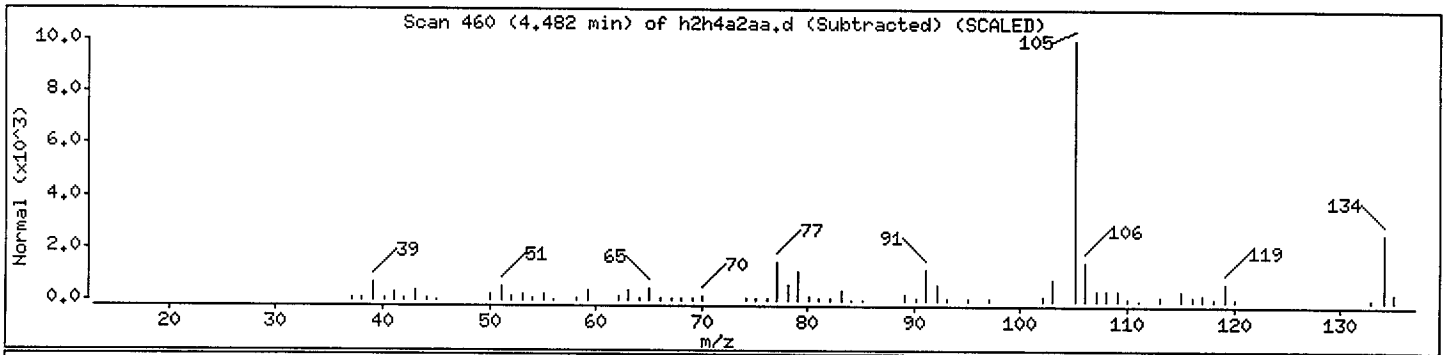
Volume Injected (uL): 1.0

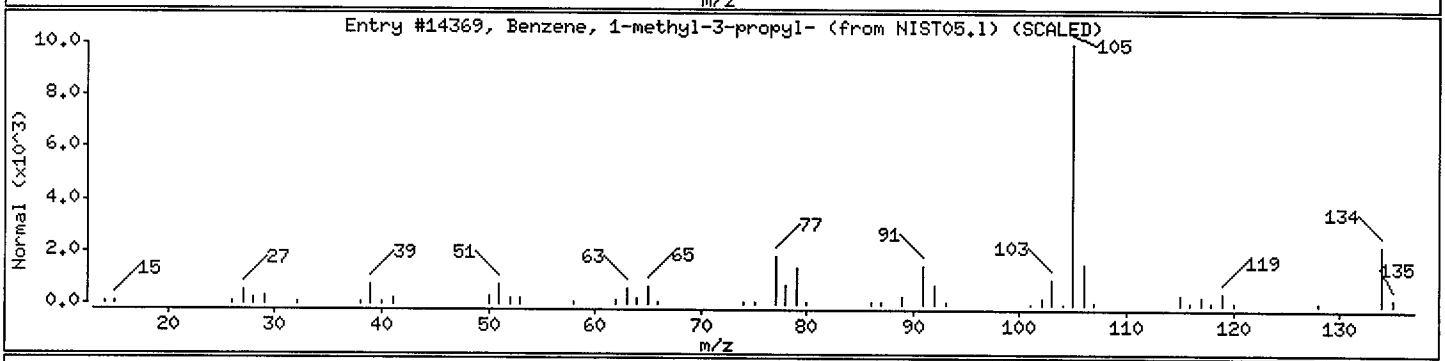
Operator: 60841

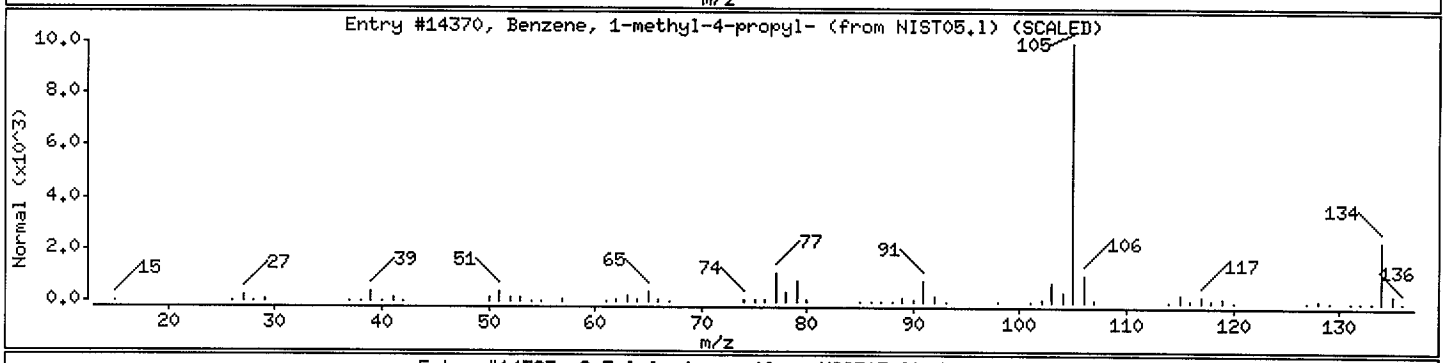
Column phase: ZB-5

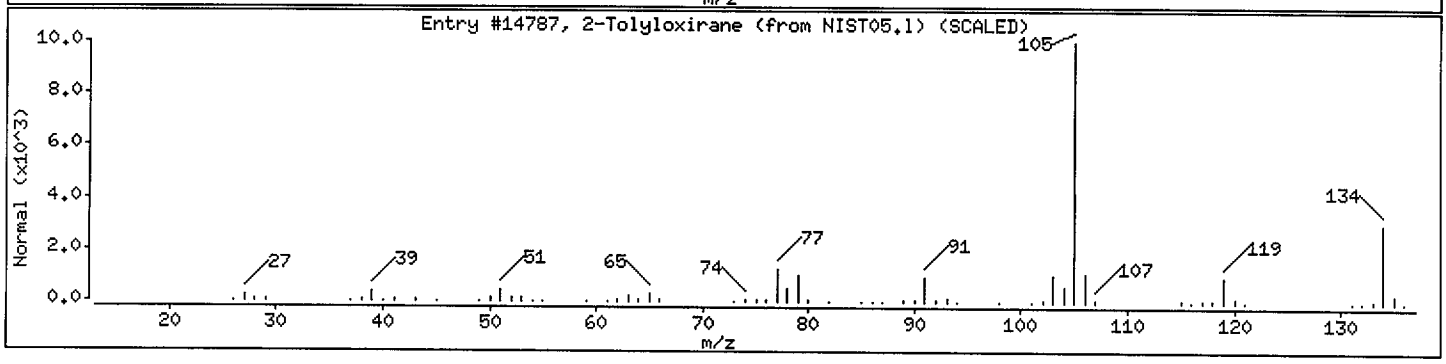
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-propyl-	1074-43-7	NIST05.l	14369	95	C10H14	134
Benzene, 1-methyl-4-propyl-	1074-55-1	NIST05.l	14370	87	C10H14	134
2-Tolyloxirane	2783-26-8	NIST05.l	14787	87	C9H10O	134









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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

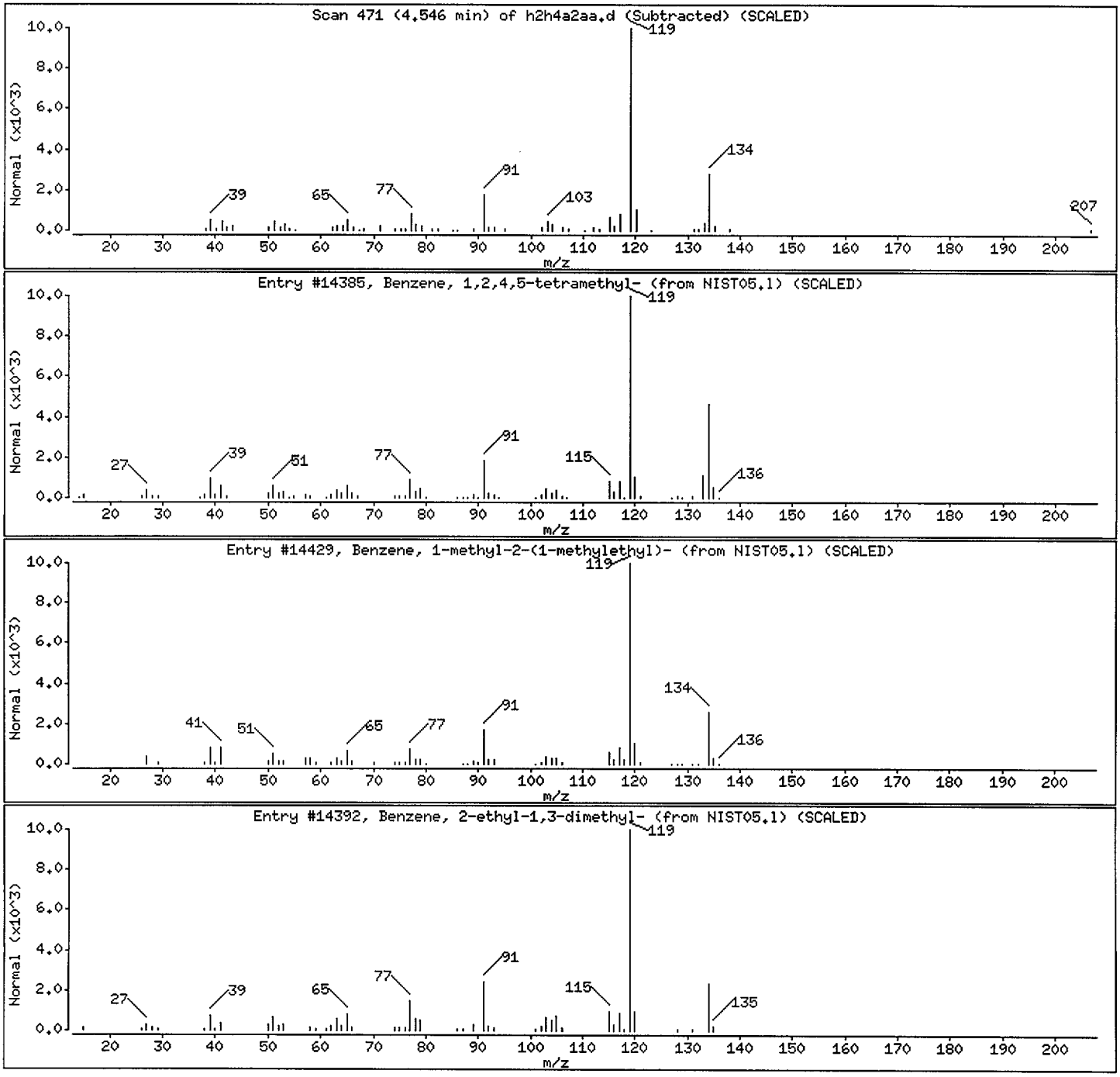
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.l	14385	91	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIST05.l	14429	91	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST05.l	14392	91	C10H14	134



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

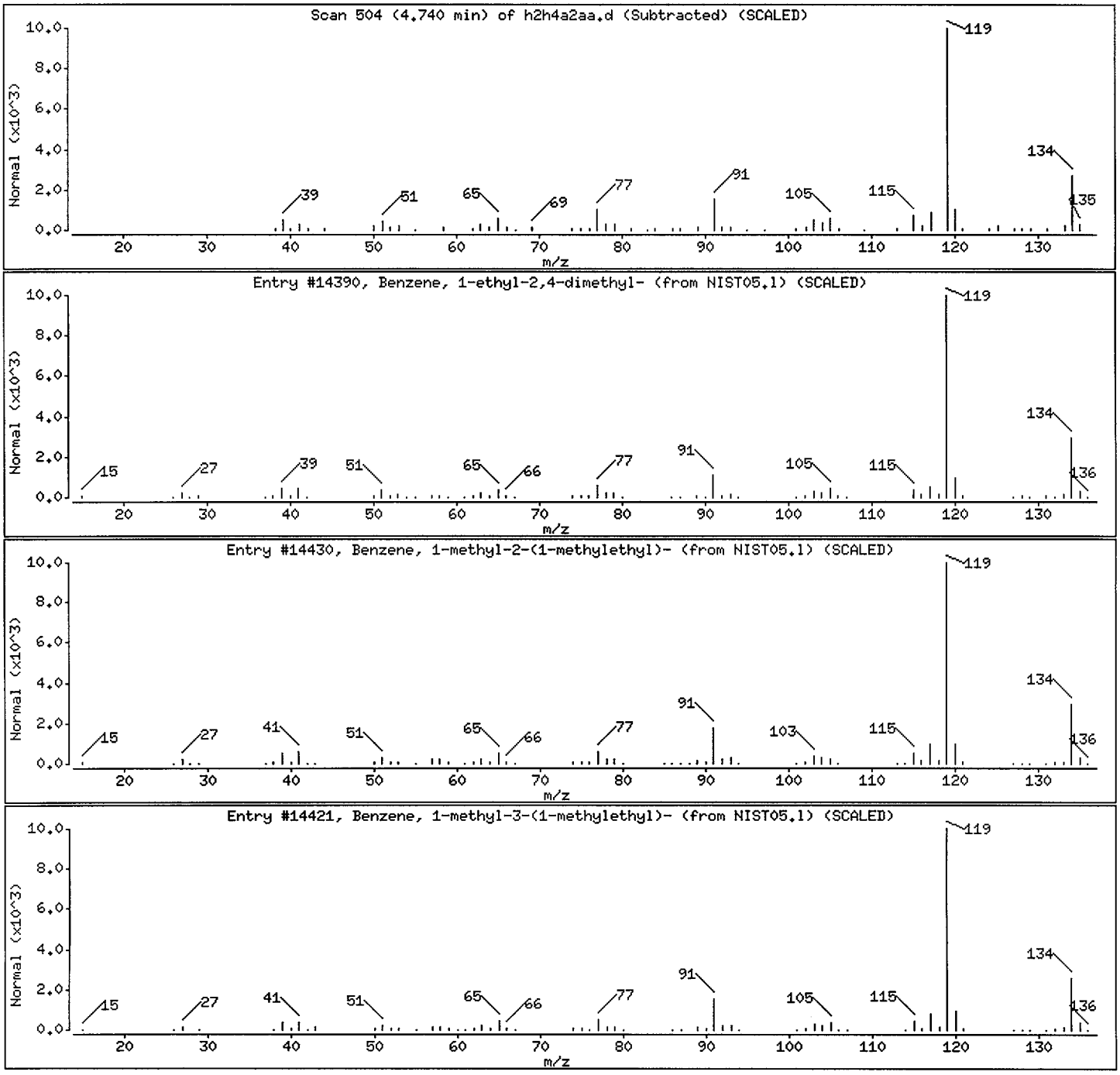
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST05.l	14390	95	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIST05.l	14430	94	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.l	14421	94	C10H14	134



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

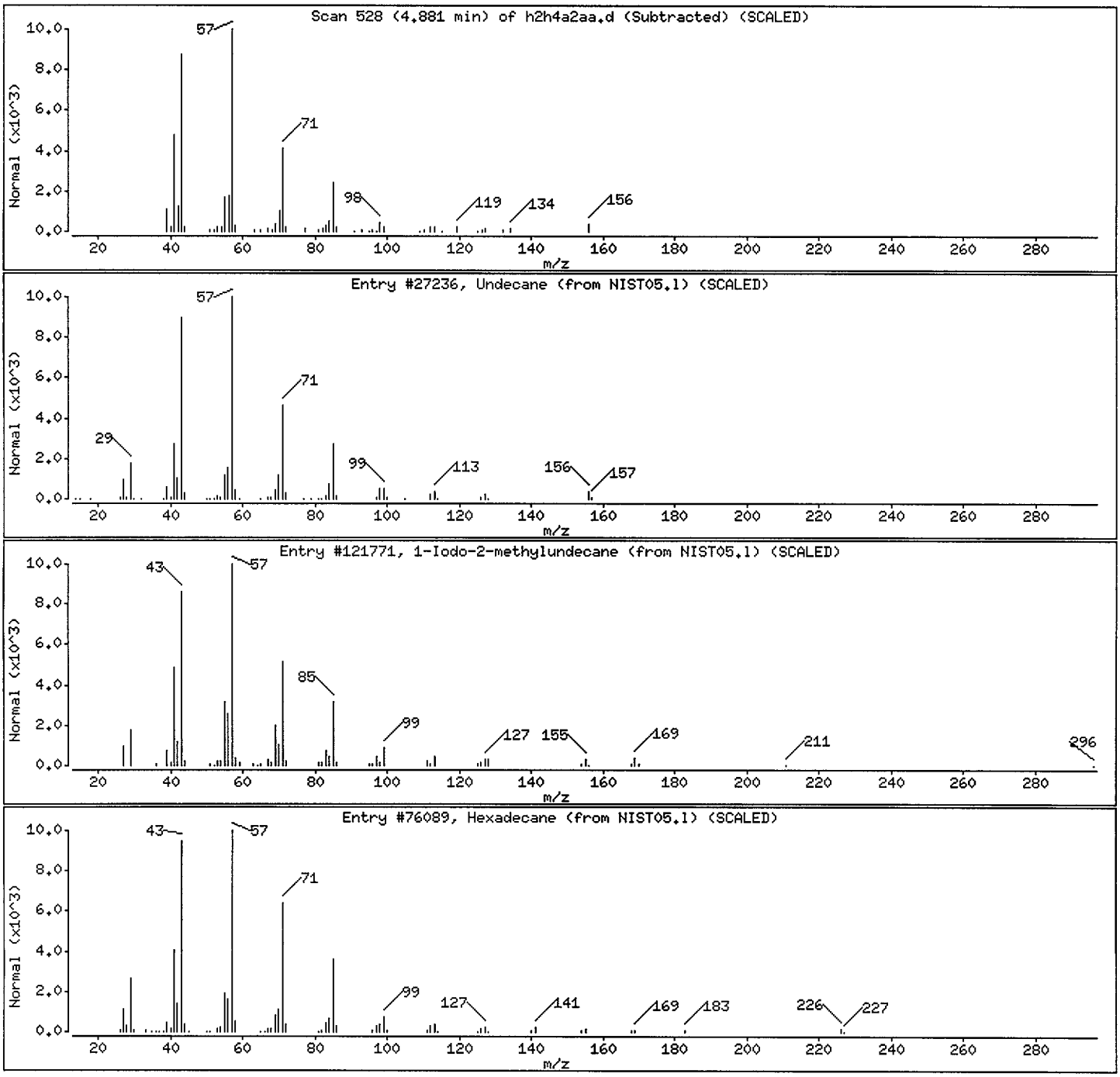
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NIST05.1	27236	91	C11H24	156
1-Iodo-2-methylundecane	73105-67-6	NIST05.1	121771	78	C12H25I	296
Hexadecane	544-76-3	NIST05.1	76089	64	C16H34	226



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Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

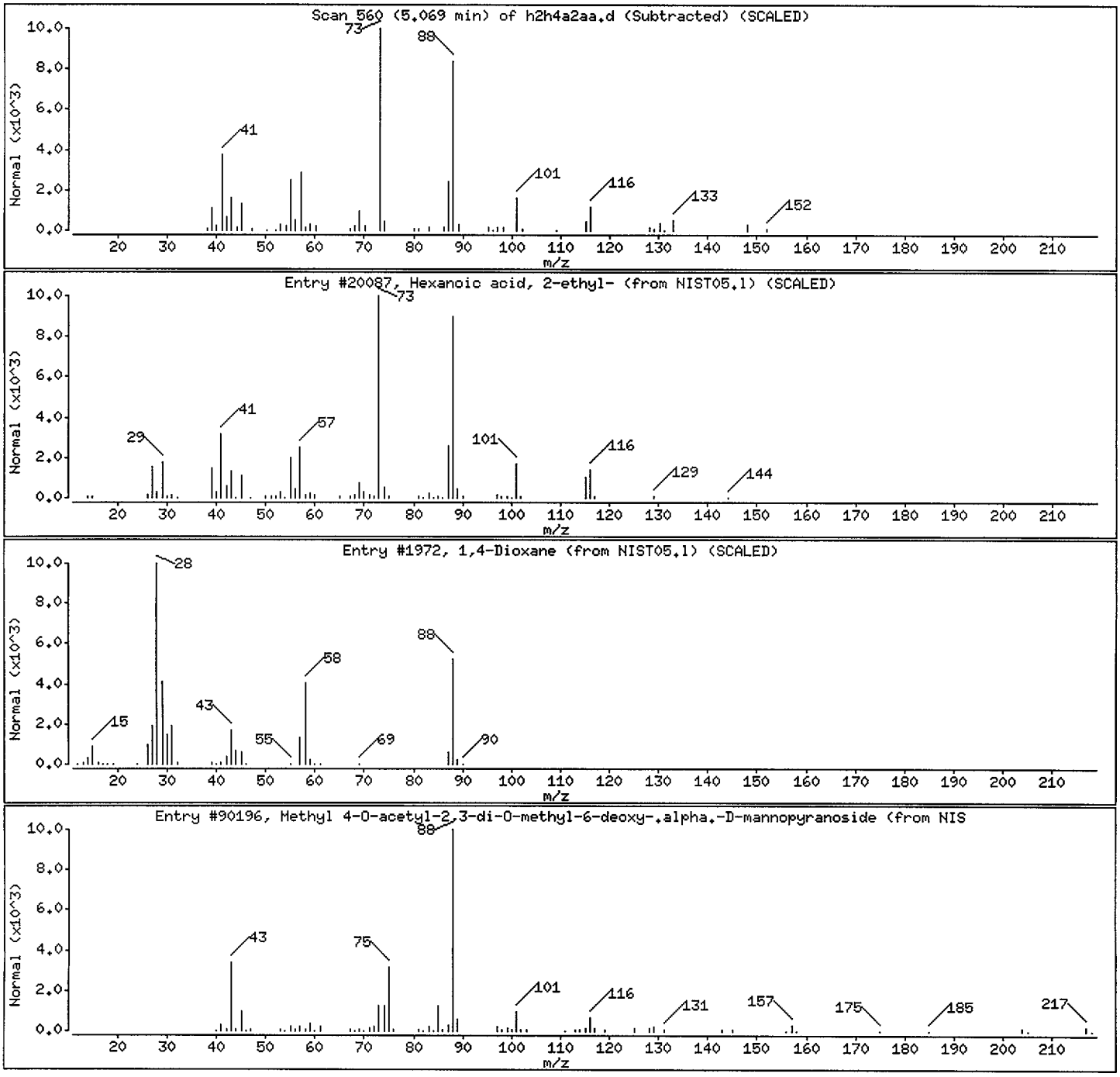
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanoic acid, 2-ethyl-	149-57-5	NIST05.1	20087	78	C8H16O2	144
1,4-Dioxane	123-91-1	NIST05.1	1972	37	C4H8O2	88
Methyl 4-O-acetyl-2,3-di-O-methyl-6-deox	72945-56-3	NIST05.1	90196	36	C11H20O6	248



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Date : 18-APR-2006 14:05

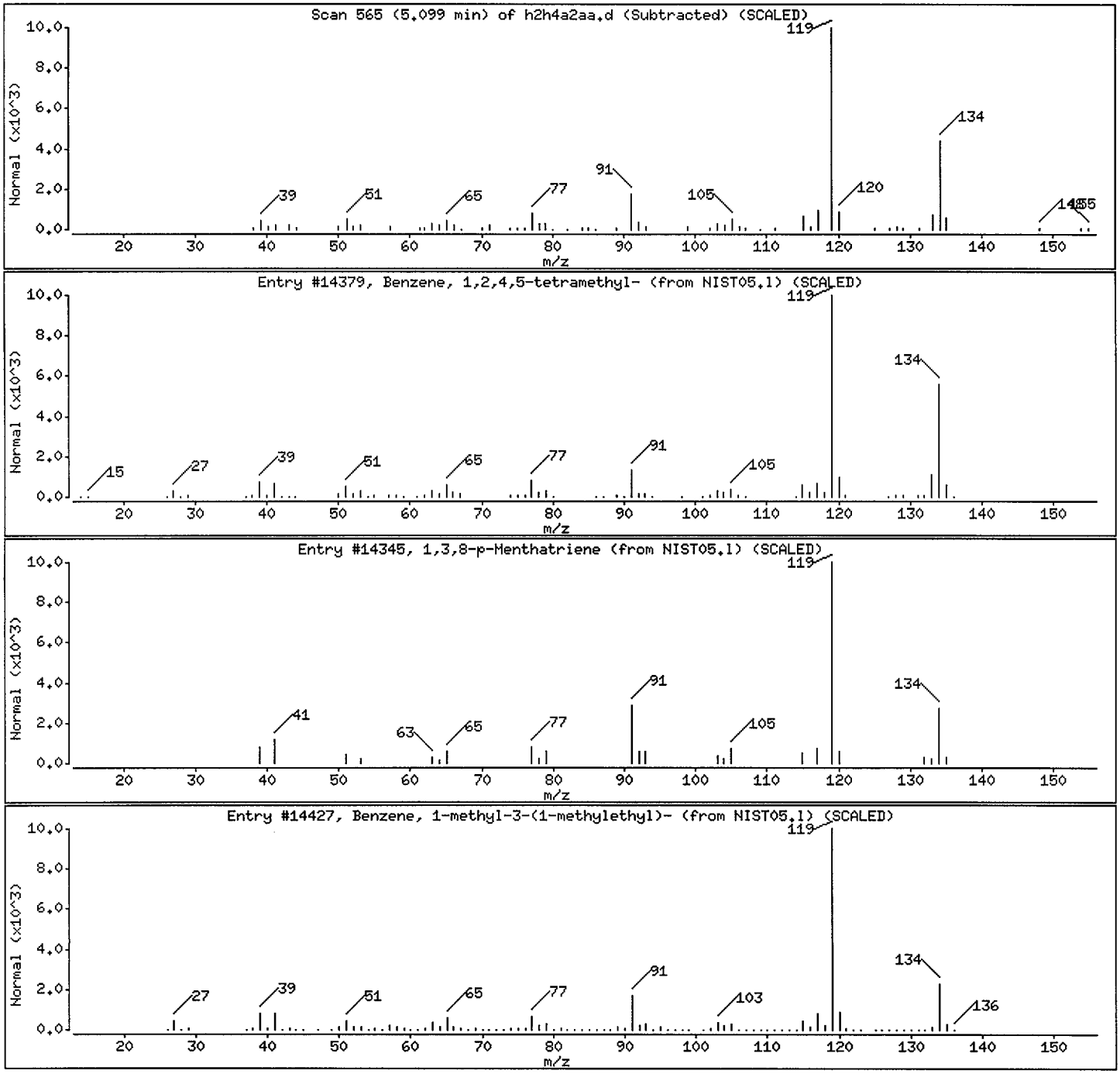
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.l	14379	91	C10H14	134
1,3,8-p-Menthatriene	21195-59-5	NIST05.l	14345	91	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.l	14427	91	C10H14	134



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Date : 18-APR-2006 14:05

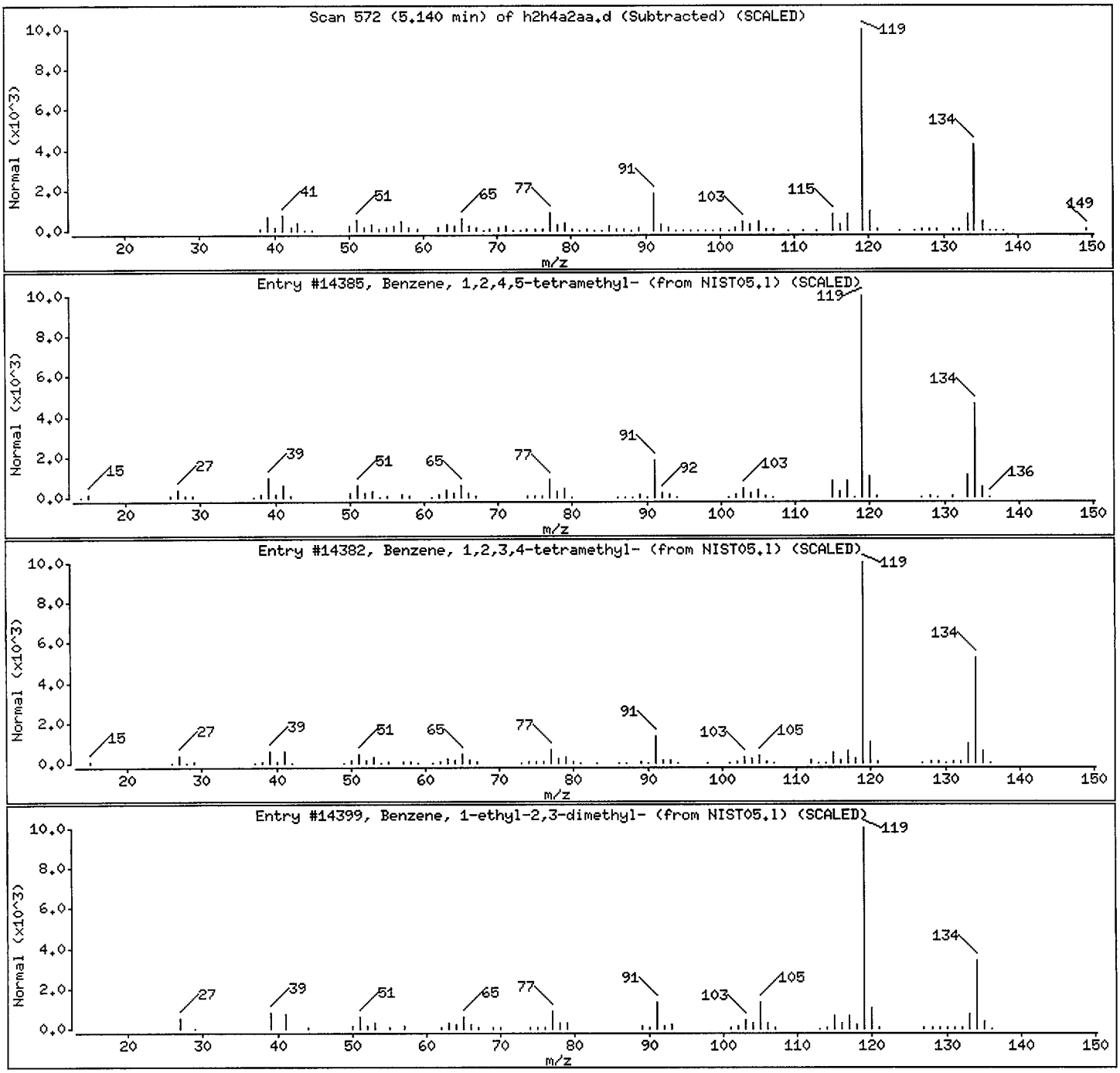
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.1	14385	96	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST05.1	14382	95	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST05.1	14399	94	C10H14	134



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Date : 18-APR-2006 14:05

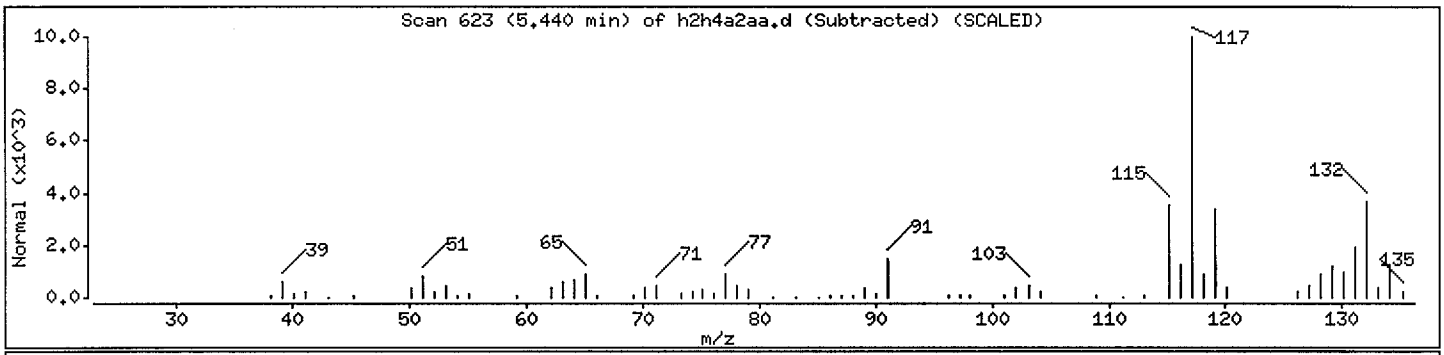
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

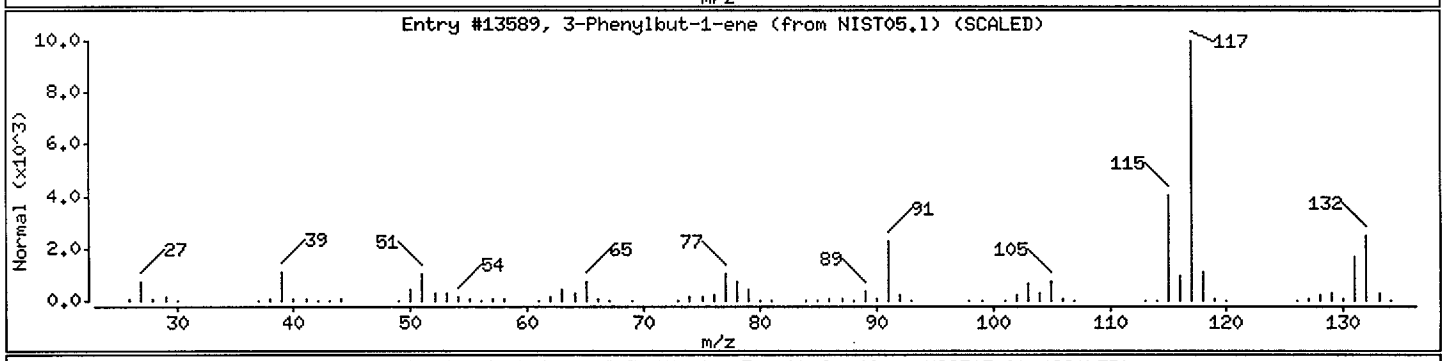
Sample Info: H2H4A1AA,5,0,,,,

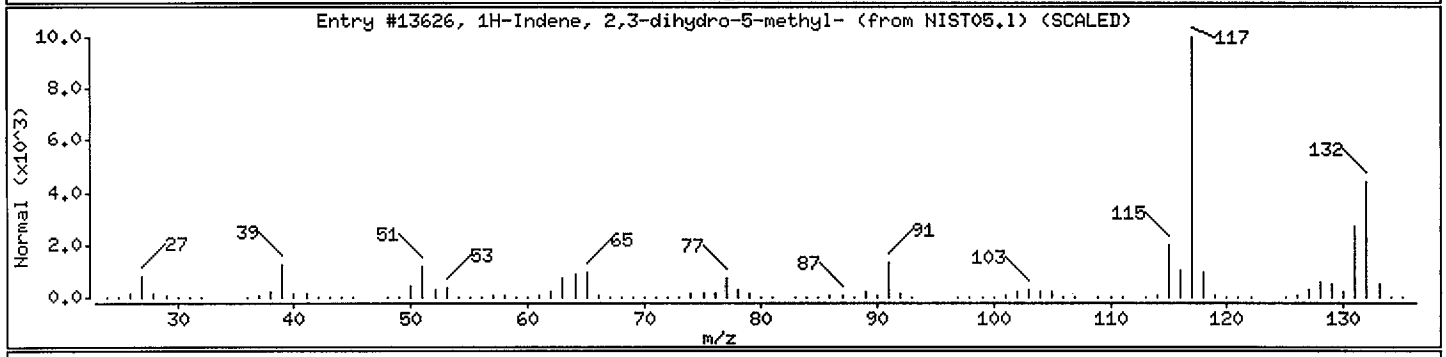
Volume Injected (uL): 1.0 | Operator: 60841

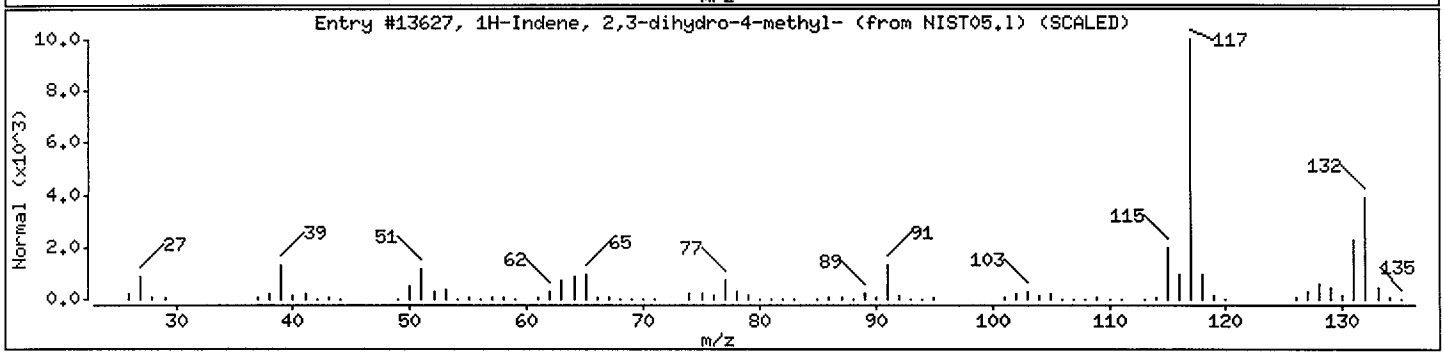
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Phenylbut-1-ene	934-10-1	NIST05.1	13589	76	C10H12	132
1H-Indene, 2,3-dihydro-5-methyl-	874-35-1	NIST05.1	13626	70	C10H12	132
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NIST05.1	13627	70	C10H12	132









Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

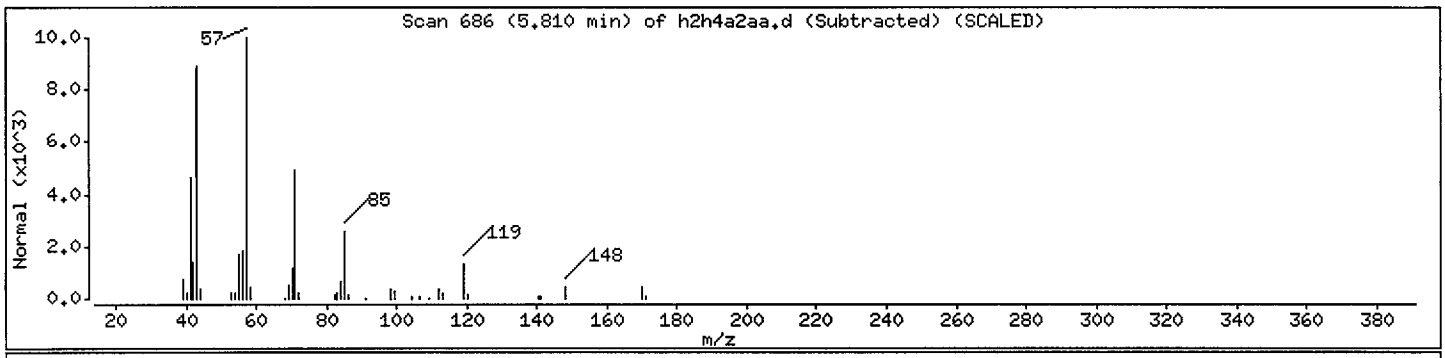
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

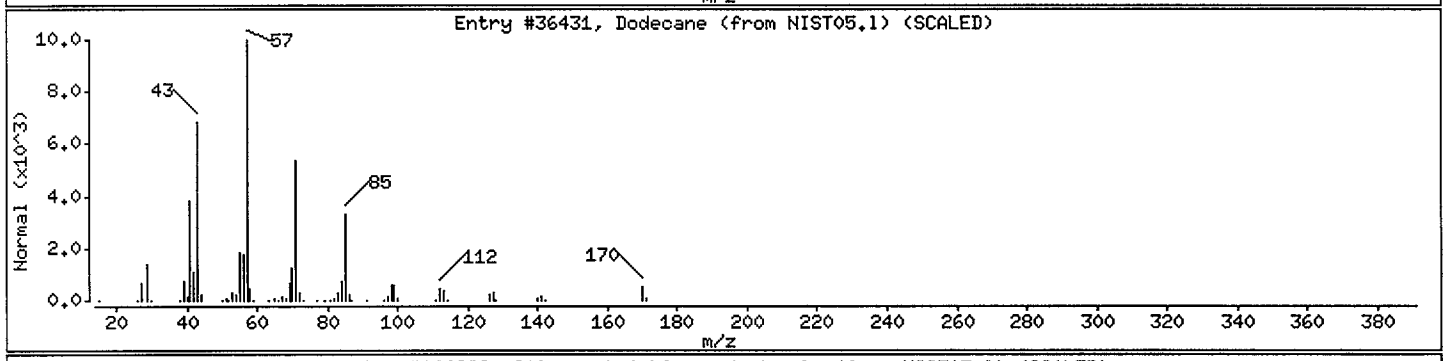
Sample Info: H2H4A1AA,5,0,,,,

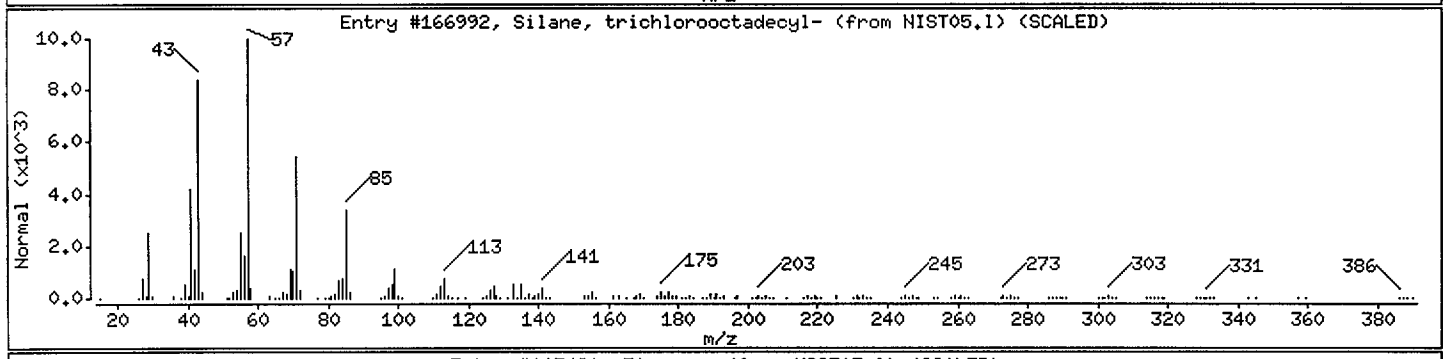
Volume Injected (uL): 1.0 | Operator: 60841

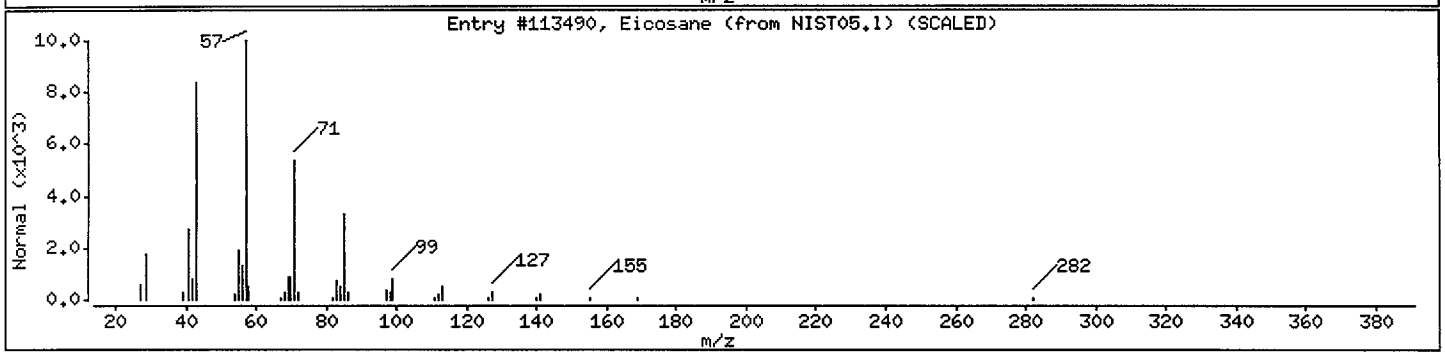
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane	112-40-3	NIST05.1	36431	87	C12H26	170
Silane, trichlorooctadecyl-	112-04-9	NIST05.1	166992	64	C18H37Cl3Si	386
Eicosane	112-95-8	NIST05.1	113490	64	C20H42	282









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Date : 18-APR-2006 14:05

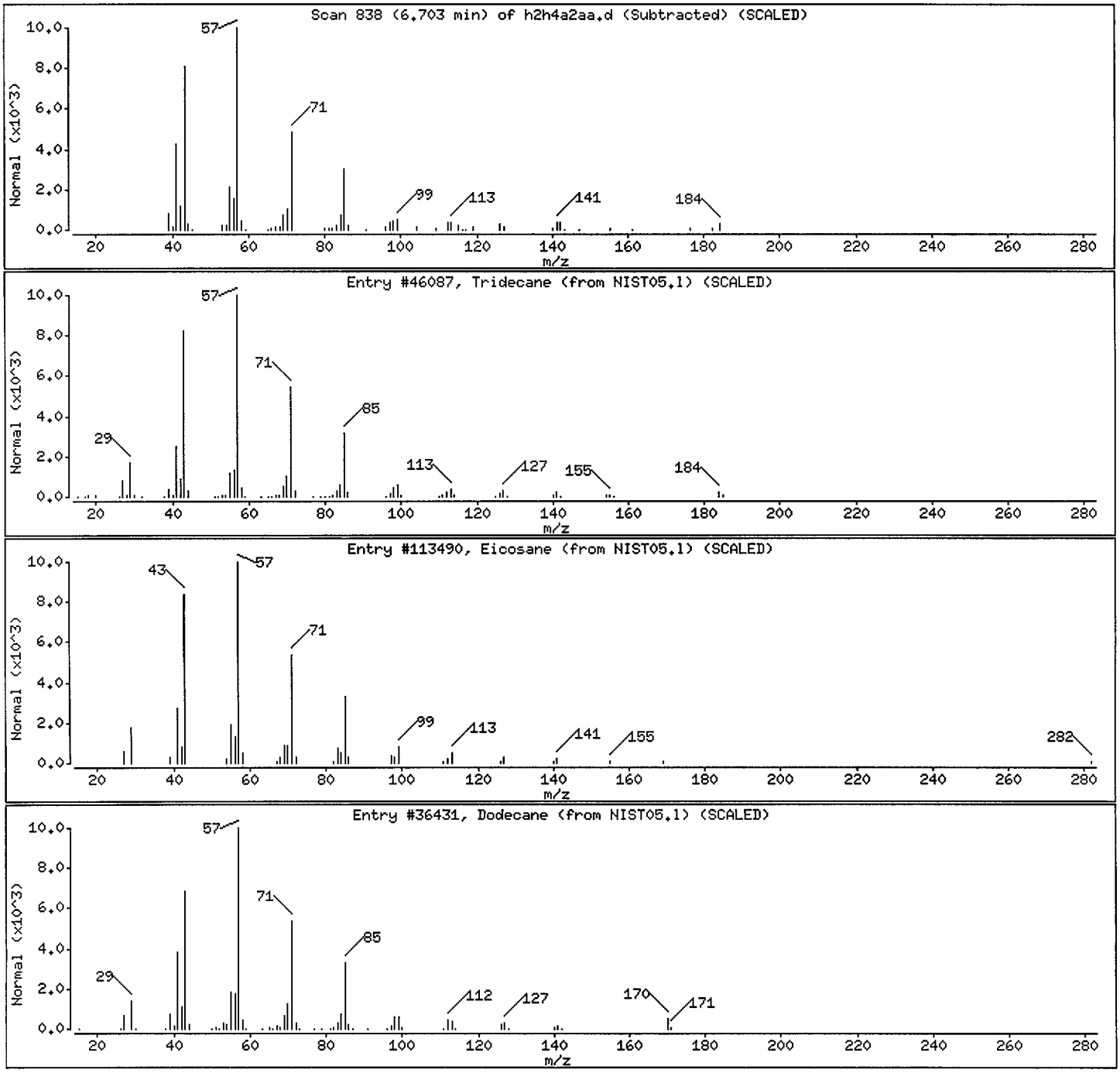
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane	629-50-5	NIST05.1	46087	94	C13H28	184
Eicosane	112-95-8	NIST05.1	113490	86	C20H42	282
Dodecane	112-40-3	NIST05.1	36431	80	C12H26	170



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Date : 18-APR-2006 14:05

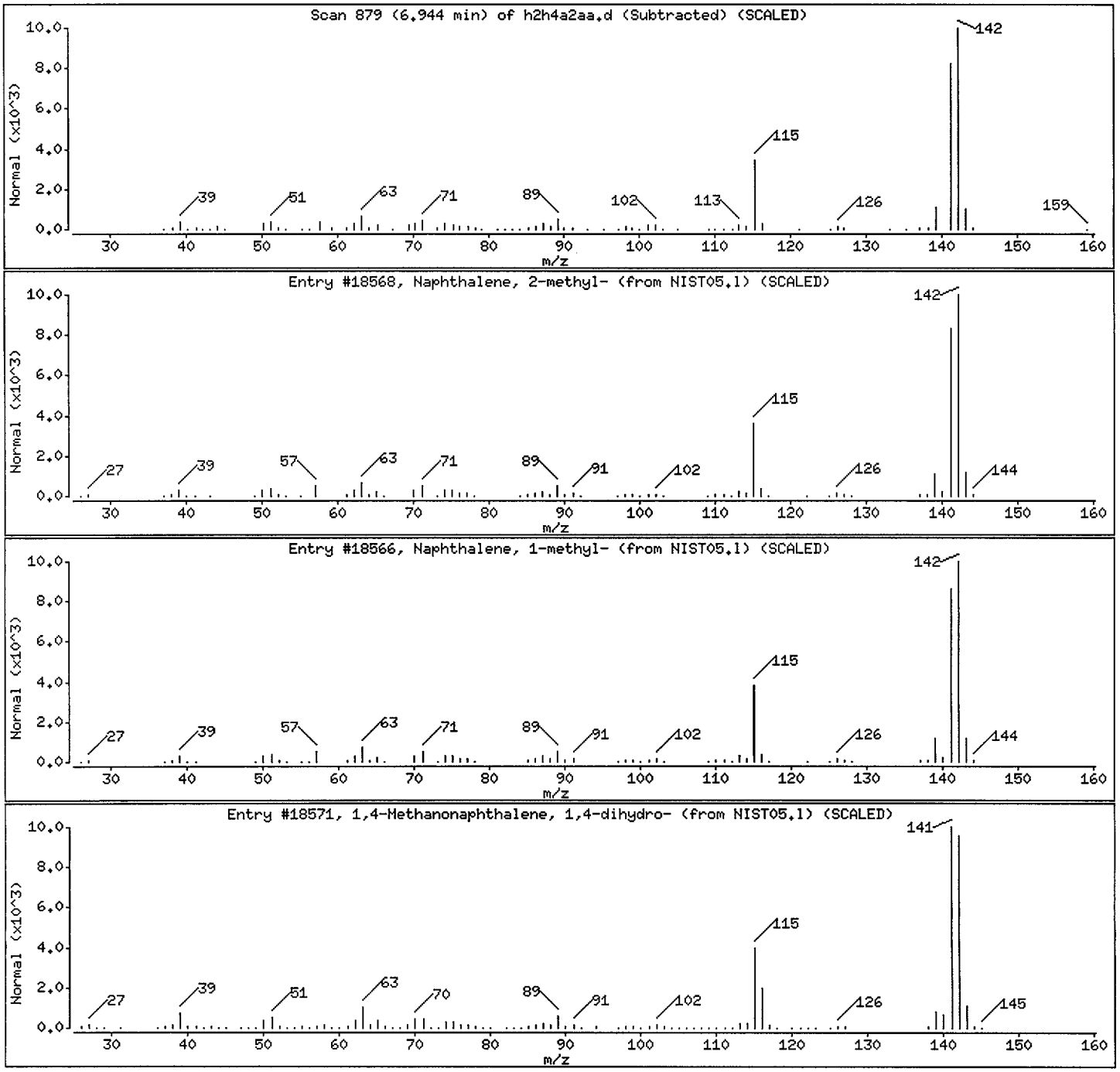
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2-methyl-	91-57-6	NIST05.l	18568	95	C11H10	142
Naphthalene, 1-methyl-	90-12-0	NIST05.l	18566	95	C11H10	142
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST05.l	18571	91	C11H10	142



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Date : 18-APR-2006 14:05

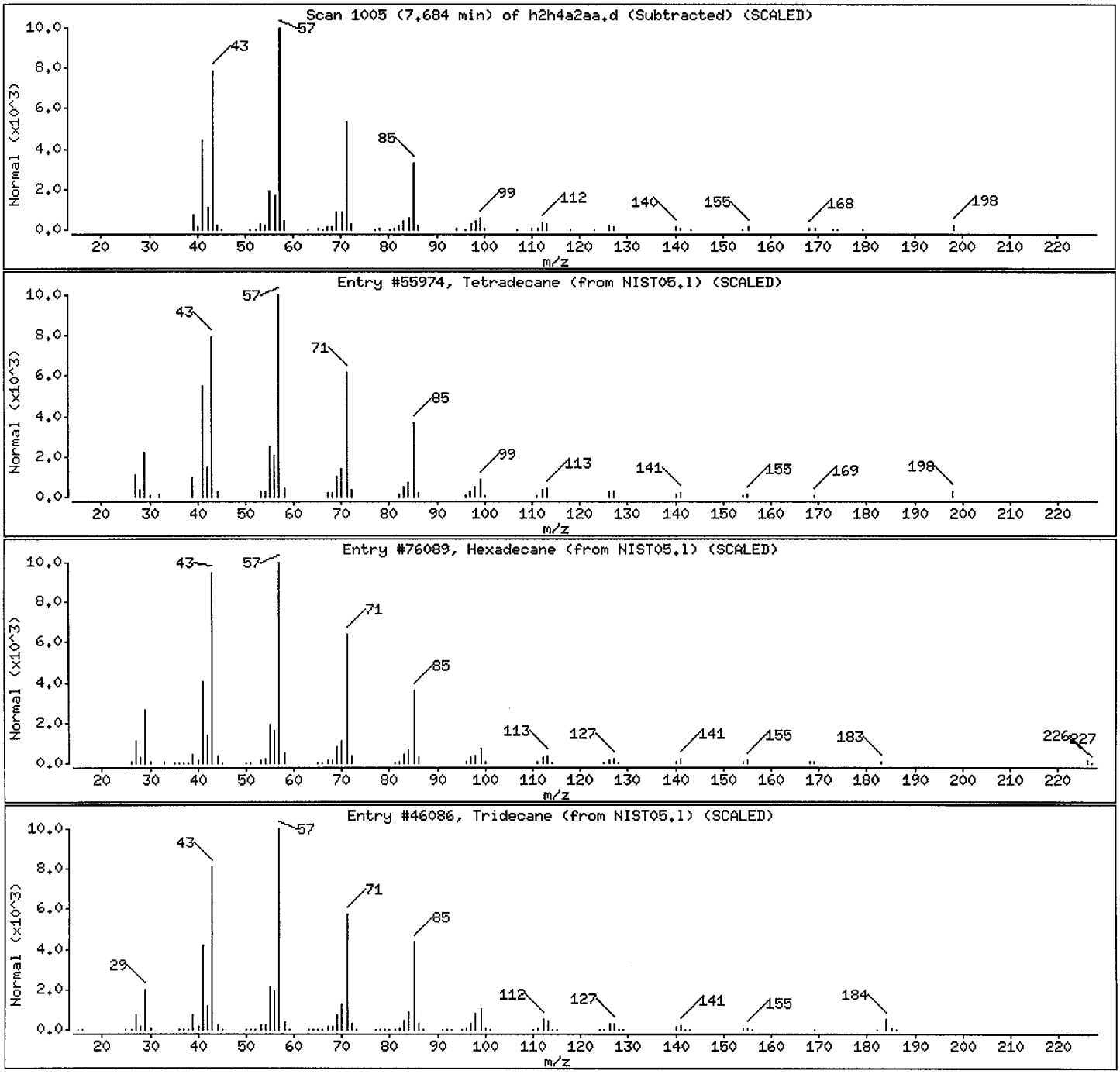
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST05.1	55974	95	C14H30	198
Hexadecane	544-76-3	NIST05.1	76089	91	C16H34	226
Tridecane	629-50-5	NIST05.1	46086	90	C13H28	184



Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

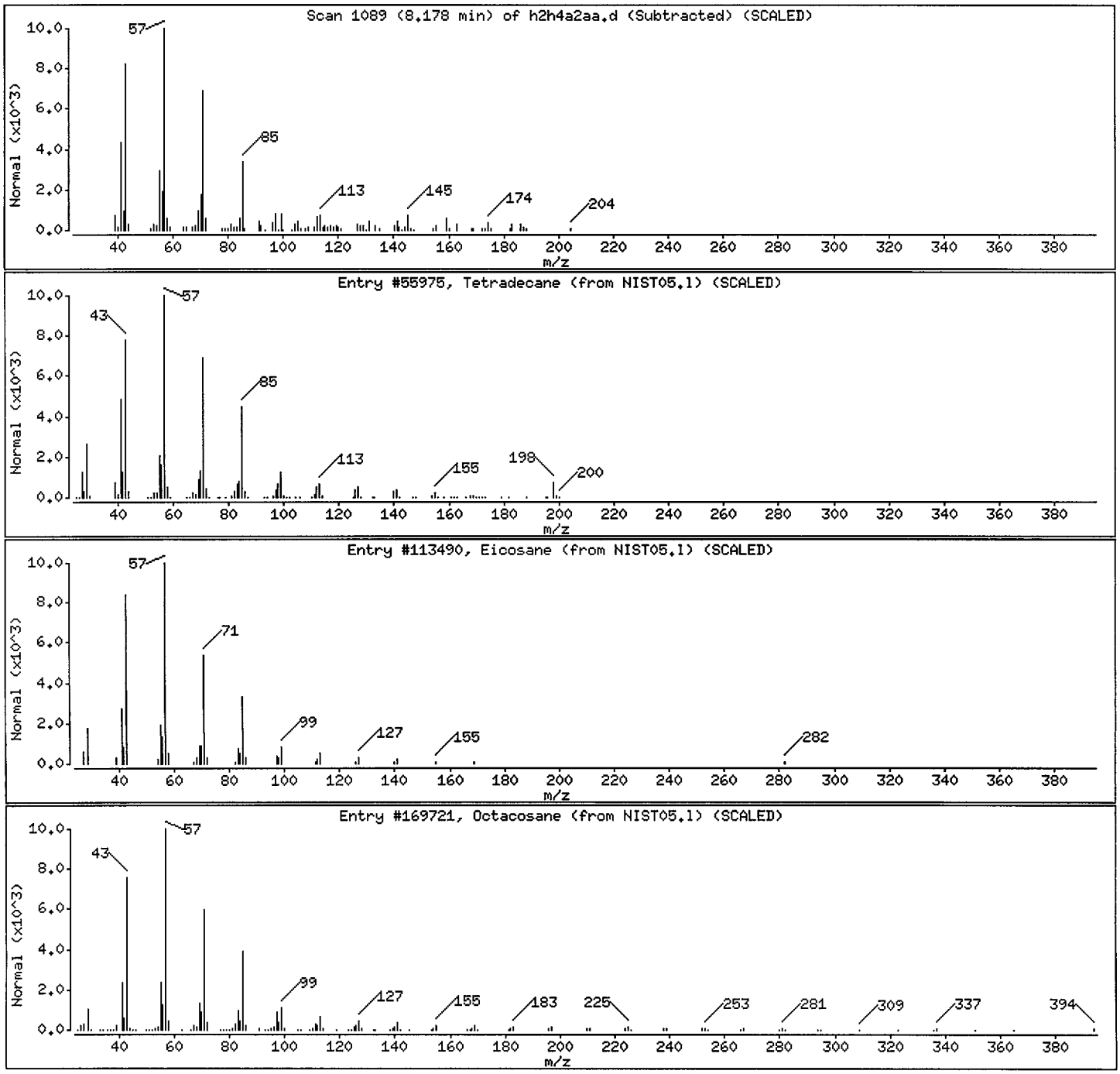
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST05.1	55975	72	C14H30	198
Eicosane	112-95-8	NIST05.1	113490	72	C20H42	282
Octacosane	630-02-4	NIST05.1	169721	64	C28H58	394



Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

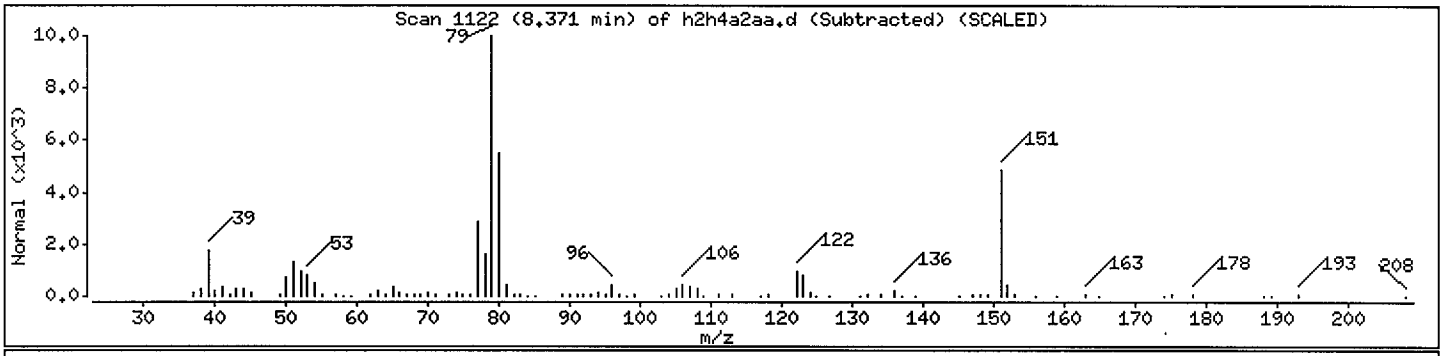
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

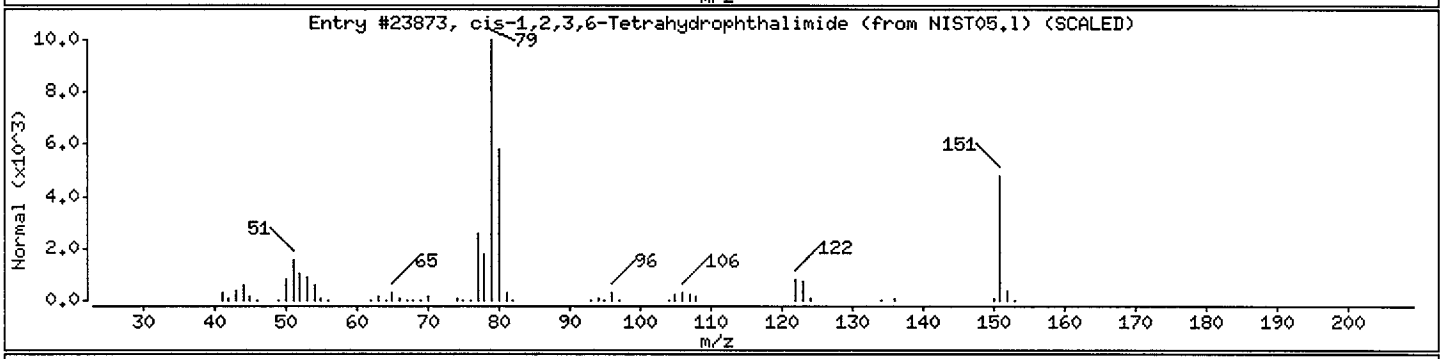
Sample Info: H2H4A1AA,5,0,,,,

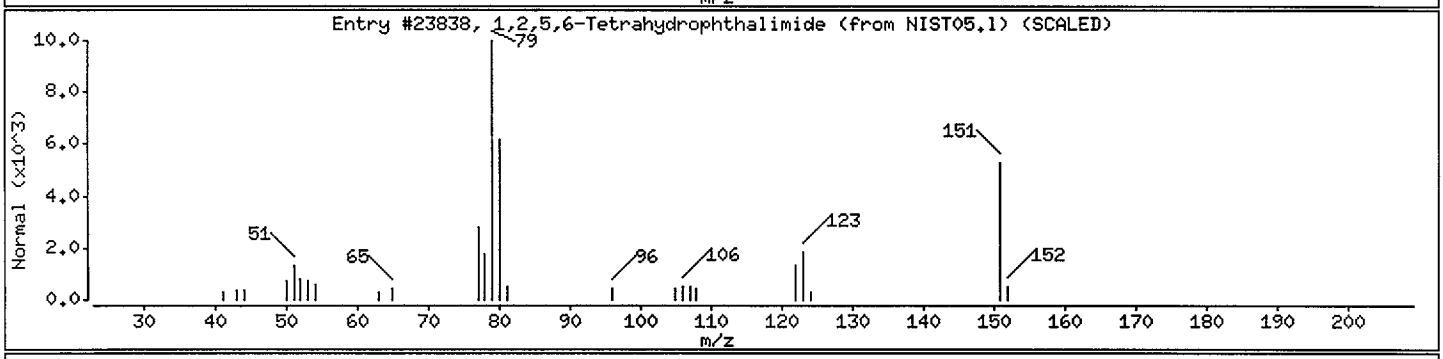
Volume Injected (uL): 1.0 | Operator: 60841

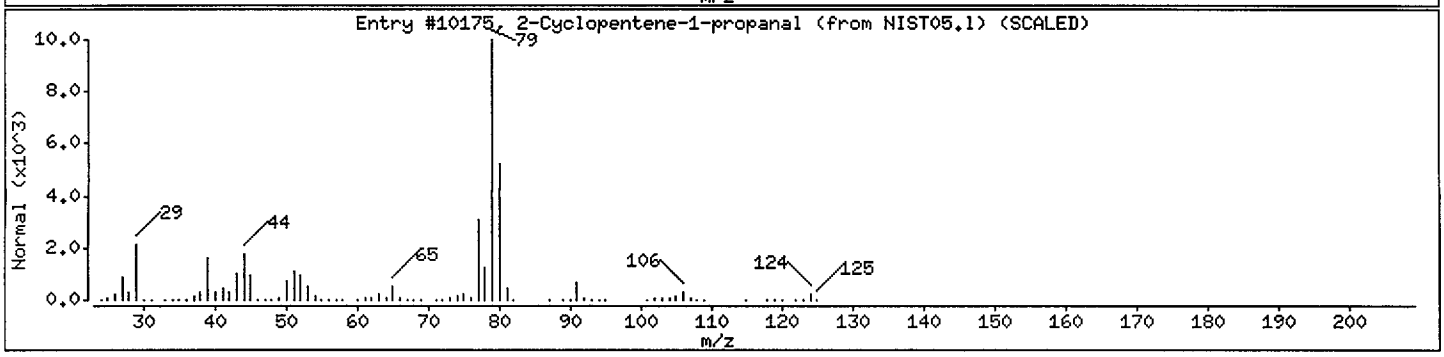
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
cis-1,2,3,6-Tetrahydrophthalimide	27813-21-4	NIST05.l	23873	96	C8H9NO2	151
1,2,5,6-Tetrahydrophthalimide	85-40-5	NIST05.l	23838	94	C8H9NO2	151
2-Cyclopentene-1-propanal	64504-73-0	NIST05.l	10175	64	C8H12O	124









Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

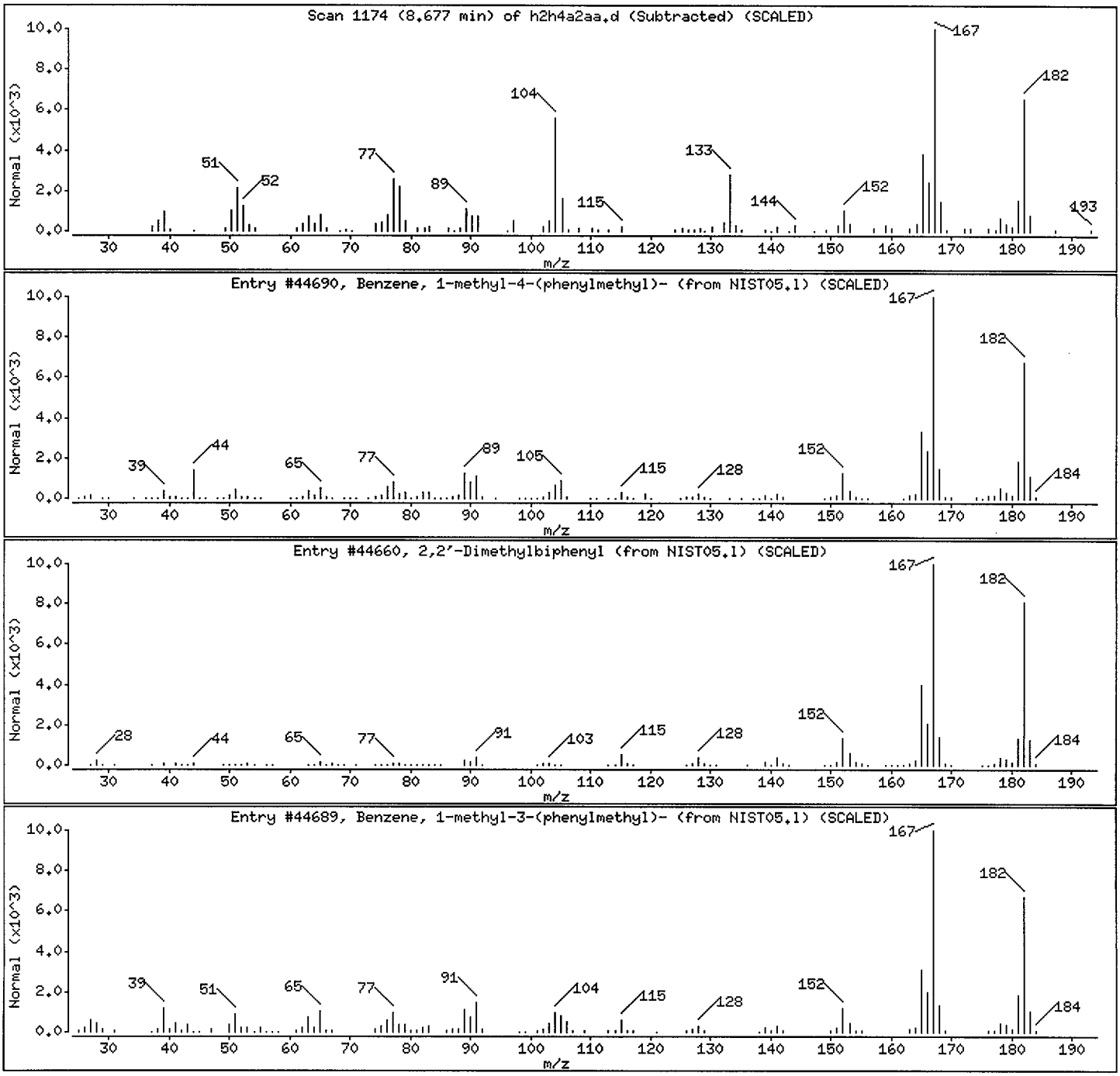
Client ID: G-2988-R2-SPENT ACT | Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-(phenylmethyl)-	620-83-7	NIST05.1	44690	95	C14H14	182
2,2'-Dimethylbiphenyl	605-39-0	NIST05.1	44660	94	C14H14	182
Benzene, 1-methyl-3-(phenylmethyl)-	620-47-3	NIST05.1	44689	93	C14H14	182



Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

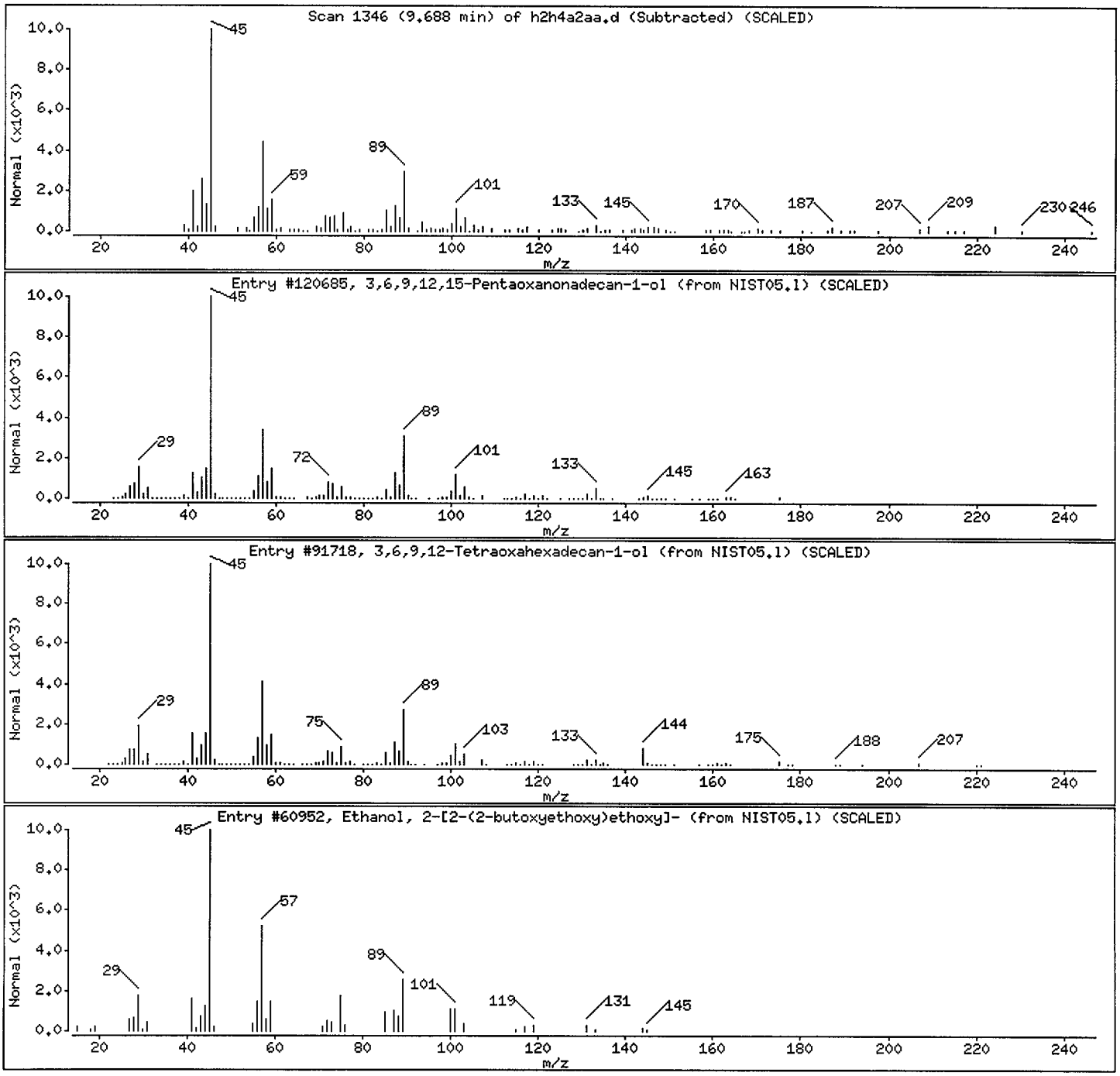
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3,6,9,12,15-Pentaoxanonadecan-1-ol	1786-94-3	NIST05.1	120685	87	C14H3006	294
3,6,9,12-Tetraoxahexadecan-1-ol	1559-34-8	NIST05.1	91718	87	C12H2605	250
Ethanol, 2-[2-(2-butoxyethoxy)ethoxy]-	143-22-6	NIST05.1	60952	86	C10H2204	206



Data File: /var/chem/gcms/md.i/D041806.b/h2h4a2aa.d

Date : 18-APR-2006 14:05

Client ID: G-2988-R2-SPENT ACT

Instrument: md.i

Sample Info: H2H4A1AA,5,0,,,,

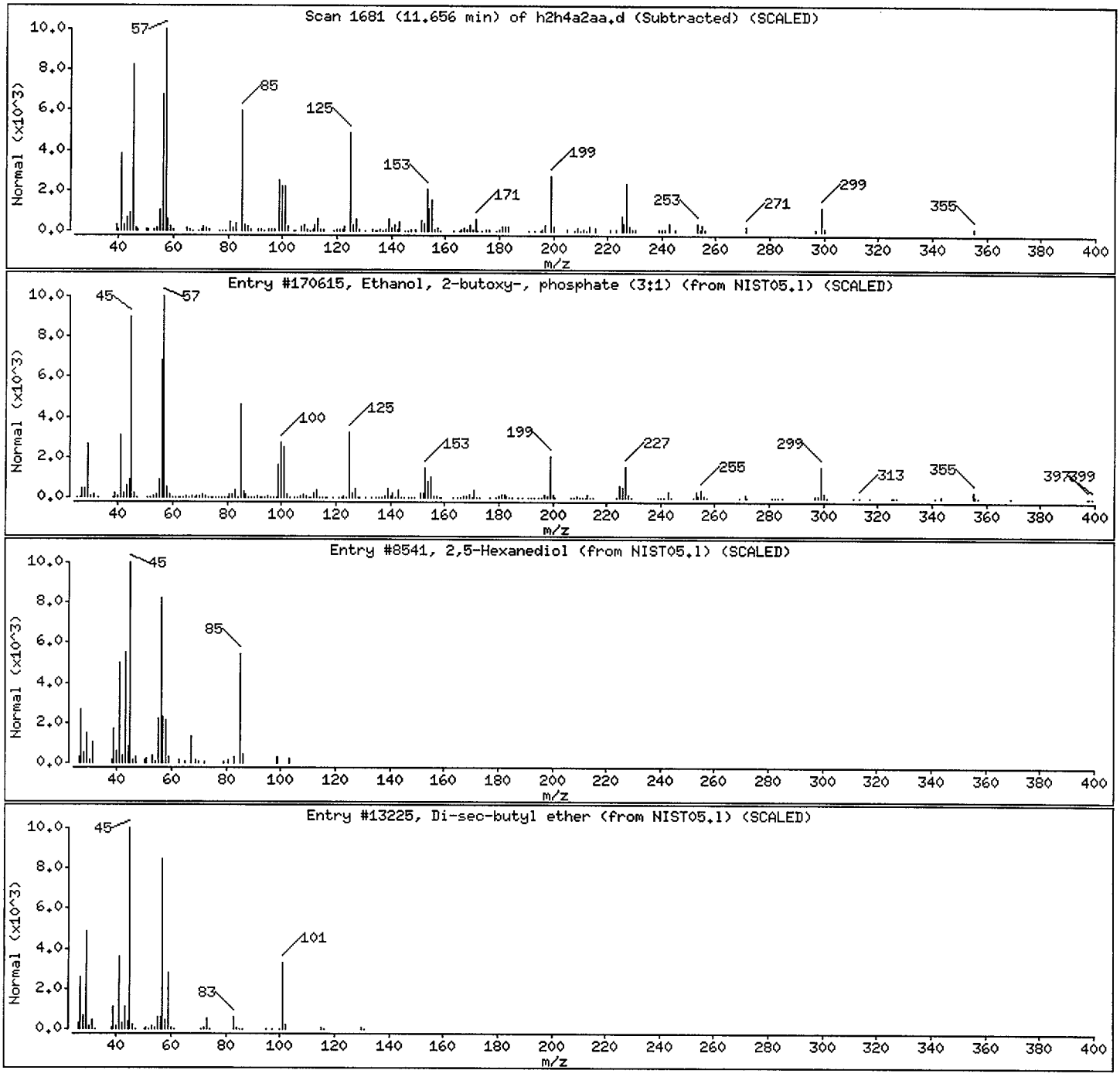
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-, phosphate (3:1)	78-51-3	NIST05.1	170615	68	C18H3907P	398
2,5-Hexanediol	2935-44-6	NIST05.1	8541	23	C6H1402	118
Di-sec-butyl ether	6863-58-7	NIST05.1	13225	14	C8H180	130



STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	43	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	57	(57 - 120)
2-Fluorobiphenyl	68	(56 - 118)
2,4,6-Tribromophenol	65	(55 - 134)
Terphenyl-d14	63	(33 - 142)

STL Knoxville - ACS

G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-007 **Work Order #:** H2H4C1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	4.3 NJ	M	1.9497	ug/L
Unknown		27 NJ	M	3.9004	ug/L
Unknown		43 NJ	M	4.1119	ug/L
Unknown		19 NJ	M	5.6043	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Lab Smp Id: H2H4C1AA Client Smp ID: G-2992-R2-SCRUBBER
Inj Date : 18-APR-2006 20:47
Operator : 60841 Inst ID: md.i
Smp Info : H2H4C1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	990.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	66719	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	212457	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	151863	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	272611	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	286467	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	256132	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	151782	32.5309	32.8
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	216876	38.5345	38.9
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	136328	28.4662	28.8(R)
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	338014	33.7625	34.1
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	84372	48.8093	49.3
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	437830	31.4230	31.7
21 Benzyl alcohol	108	4.112	4.323	(0.989)	2716	0.92077	~~0.930~~
23 2-Methylphenol	108	4.112	4.476	(0.989)	2716	0.64277	~~0.649~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Report Date: 19-Apr-2006 13:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	4382	1.44468	~~1.46~~

KRM 4/19/06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4c1aa.d
Lab Smp Id: H2H4C1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2992-R2-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	66719	7.74
2 Naphthalene-d8	196946	98473	393892	212457	7.88
3 Acenaphthene-d10	140395	70198	280790	151863	8.17
4 Phenanthrene-d10	245474	122737	490948	272611	11.05
5 Chrysene-d12	253631	126816	507262	286467	12.95
6 Perylene-d12	225613	112806	451226	256132	13.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

RECOVERY REPORT

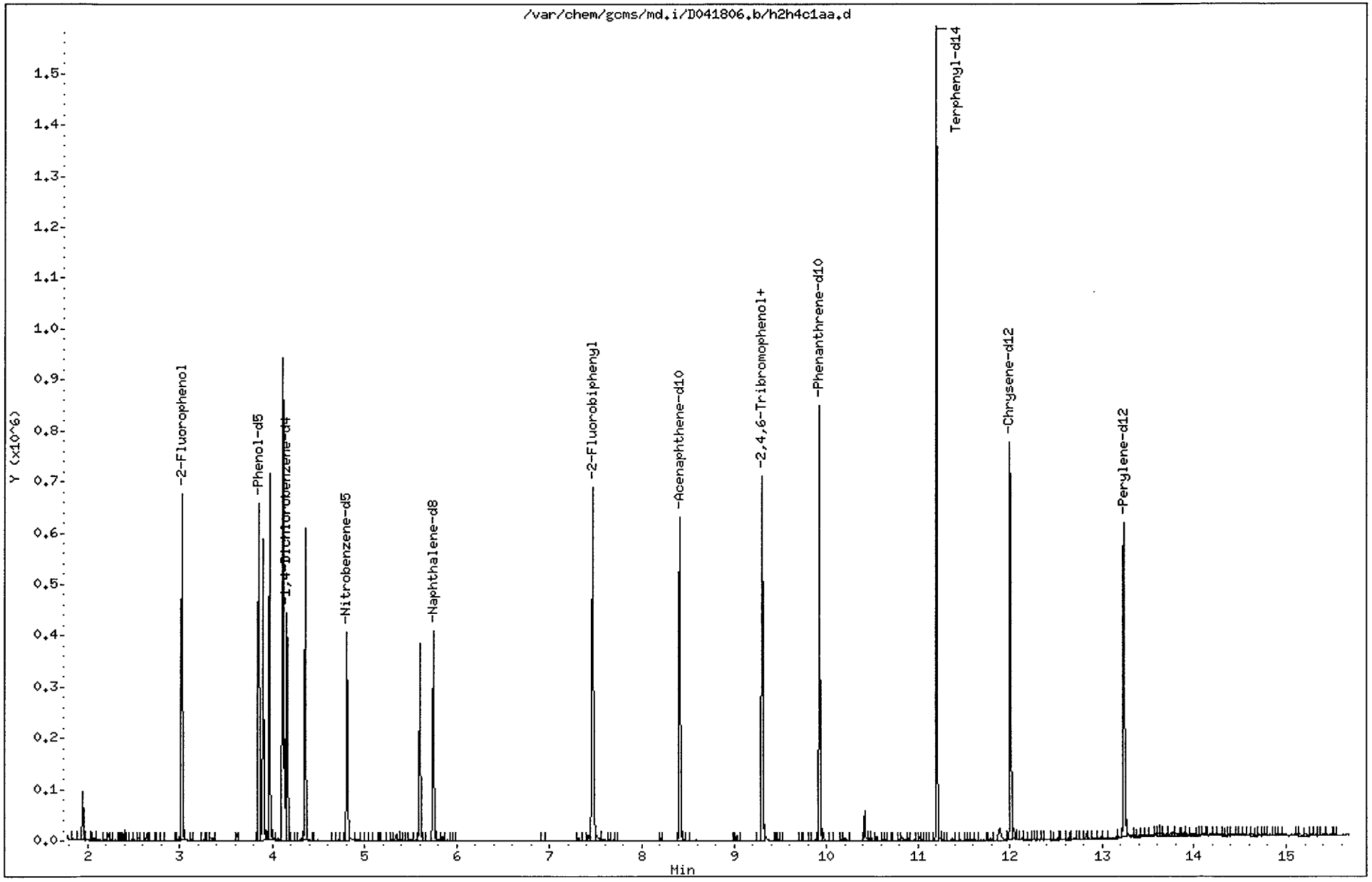
Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H4C1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2992-R2-SCRUBBER
Operator: 60841
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	75.8	32.8	43.37	36-98
$ 8 Phenol-d5	75.8	38.9	51.38	49-109
$ 9 Nitrobenzene-d5	50.5	28.8	56.93*	57-120
$ 10 2-Fluorobiphenyl	50.5	34.1	67.52	56-118
$ 11 2,4,6-Tribromophen	75.8	49.3	65.08	55-134
$ 12 Terphenyl-d14	50.5	31.7	62.85	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Date : 18-APR-2006 20:47
Client ID: G-2992-R2-SCRUBBER
Sample Info: H2H4C1AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

Client ID: G-2992-R2-SCRUBBER

Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0

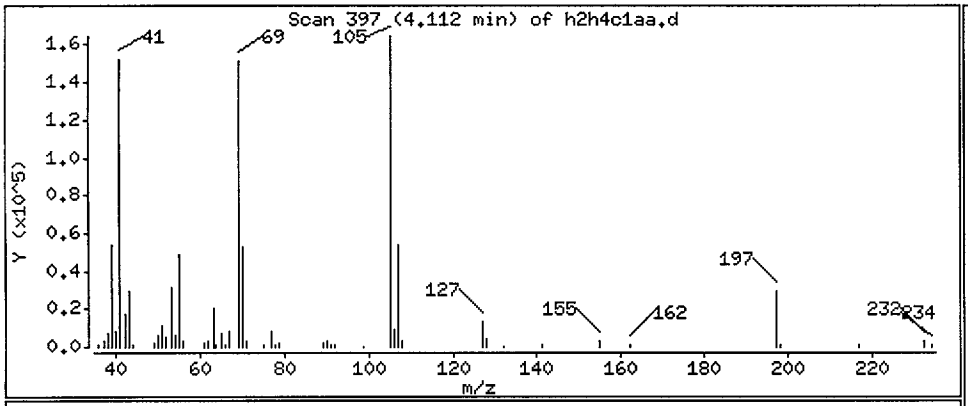
Operator: 60841

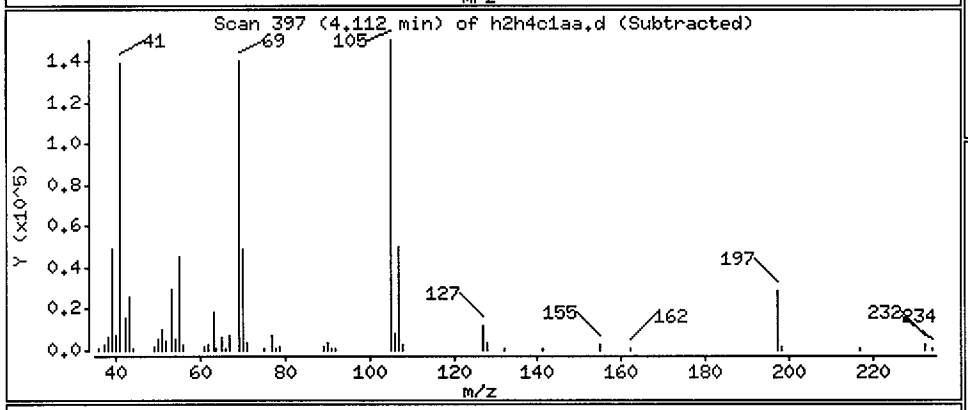
Column phase: ZB-5

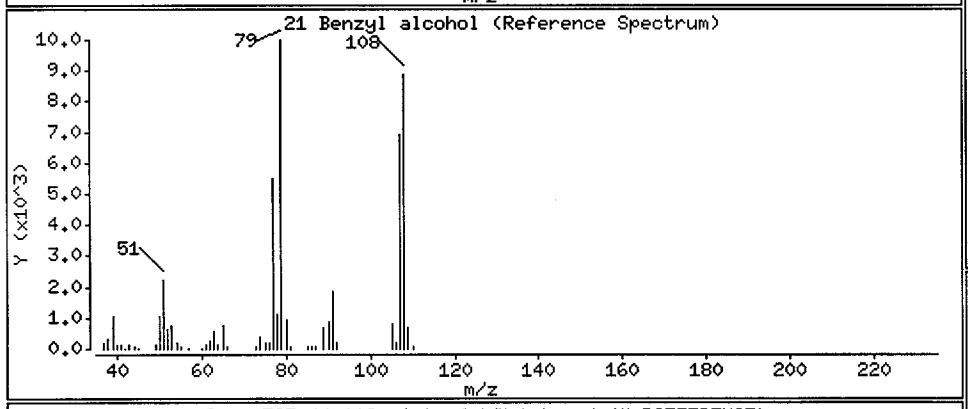
Column diameter: 0.25

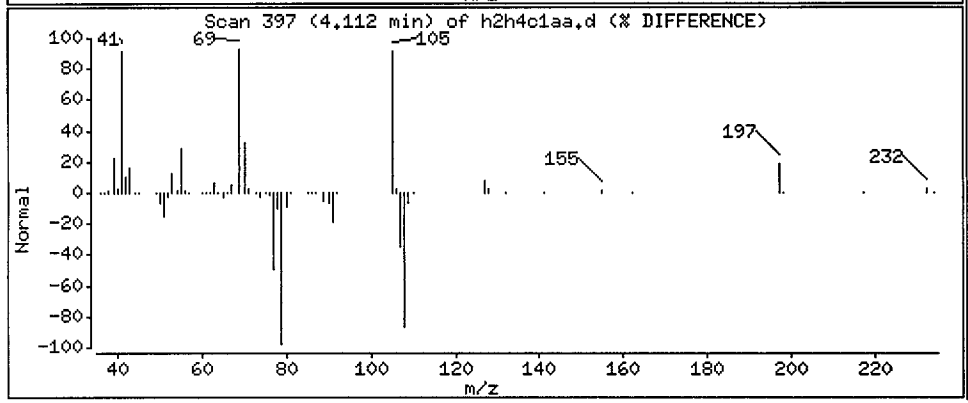
21 Benzyl alcohol

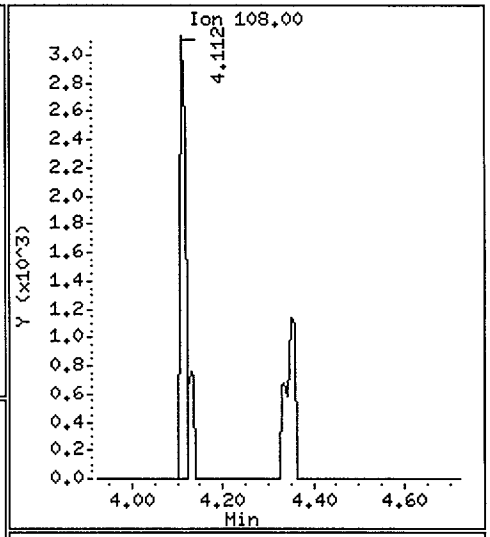
Concentration: 0.930 ug/L

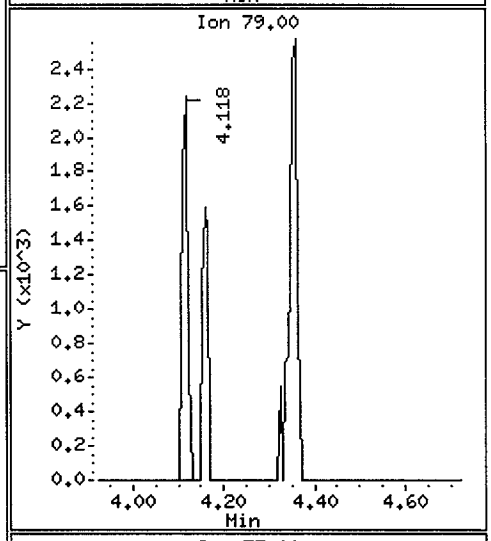


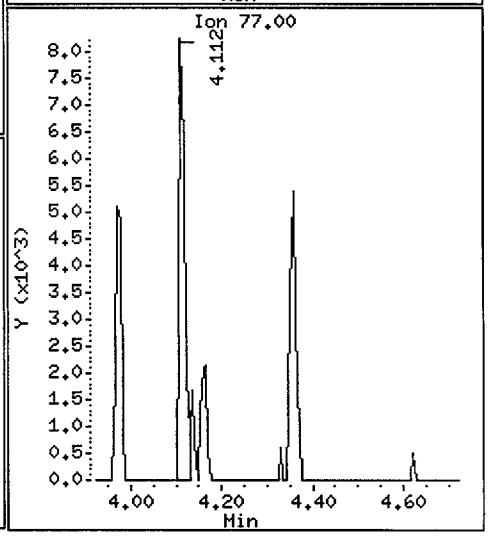












Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

Client ID: G-2992-R2-SCRUBBER

Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0

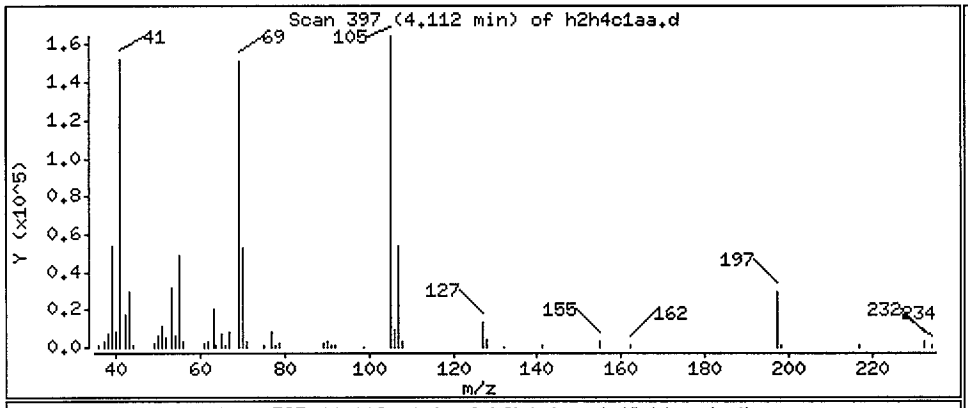
Operator: 60841

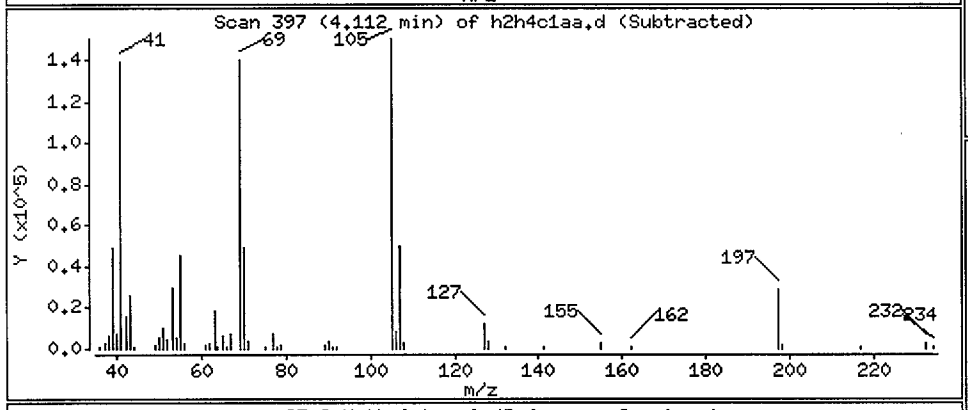
Column phase: ZB-5

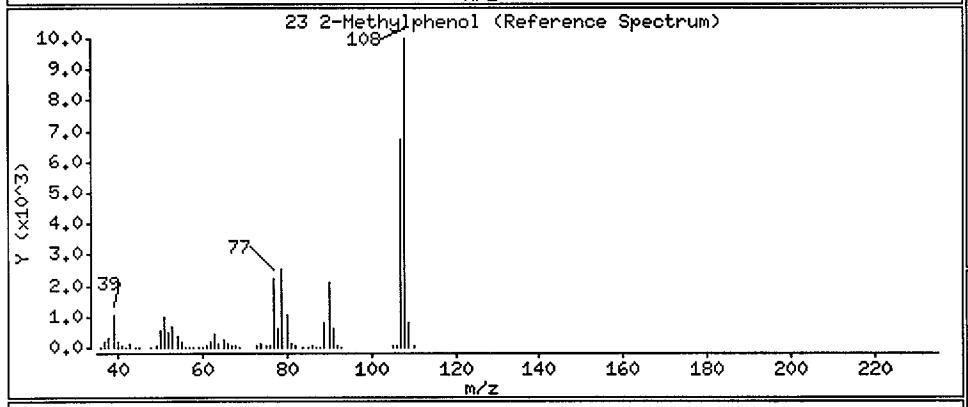
Column diameter: 0.25

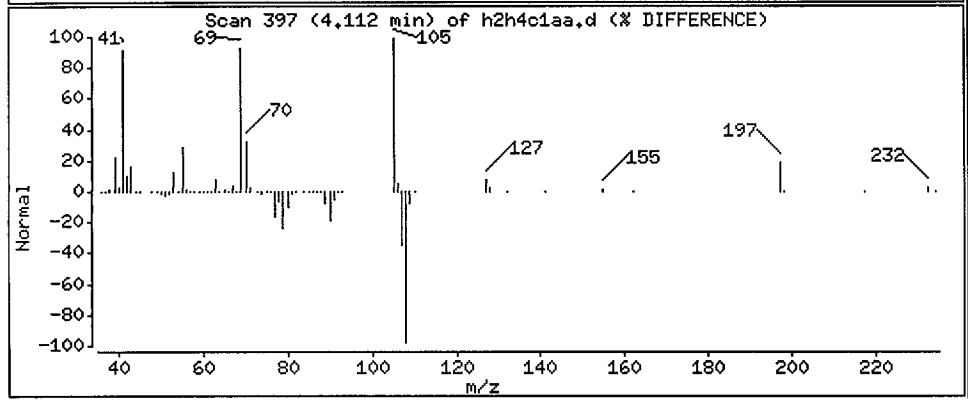
23 2-Methylphenol

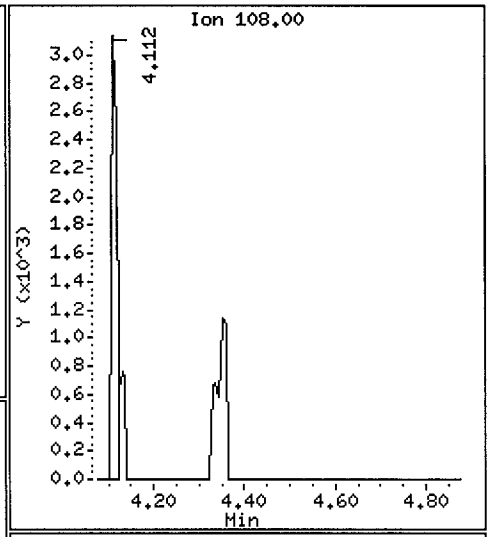
Concentration: 0.649 ug/L

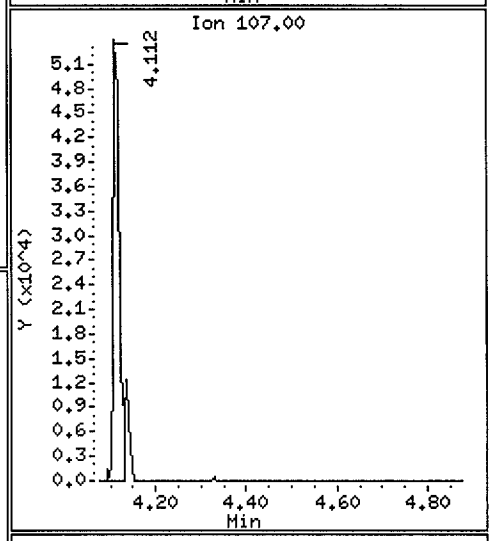


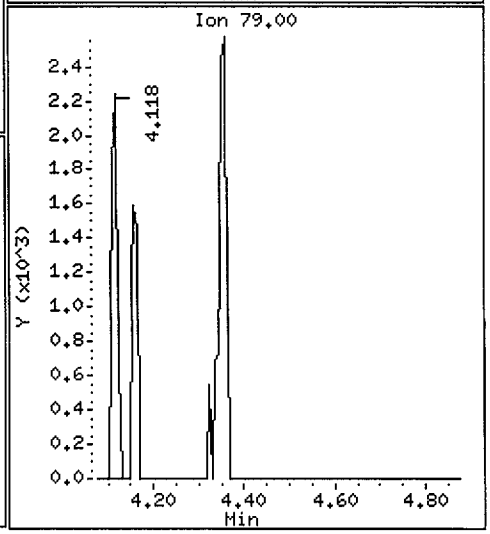












Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

Client ID: G-2992-R2-SCRUBBER

Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0

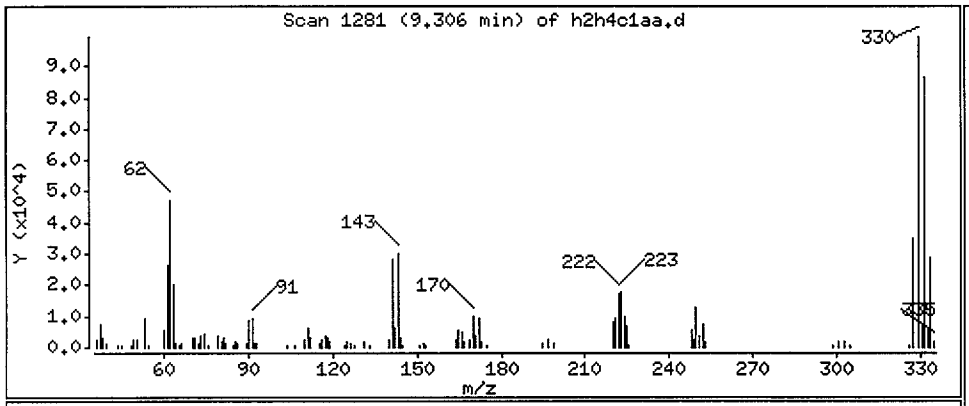
Operator: 60841

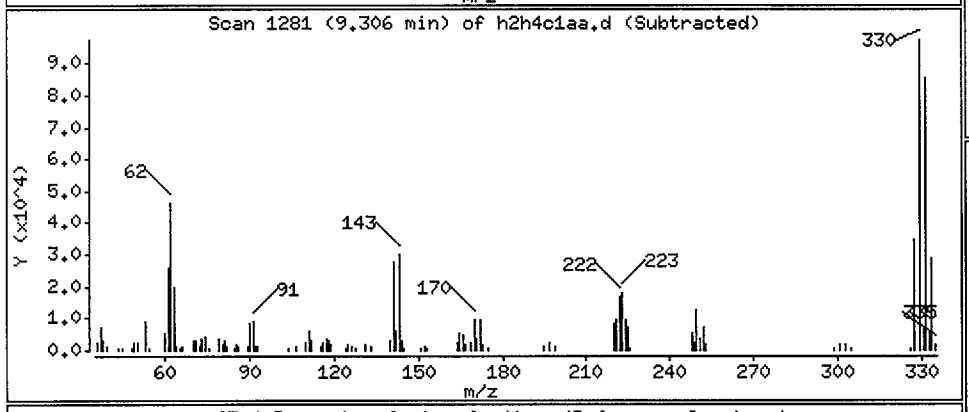
Column phase: ZB-5

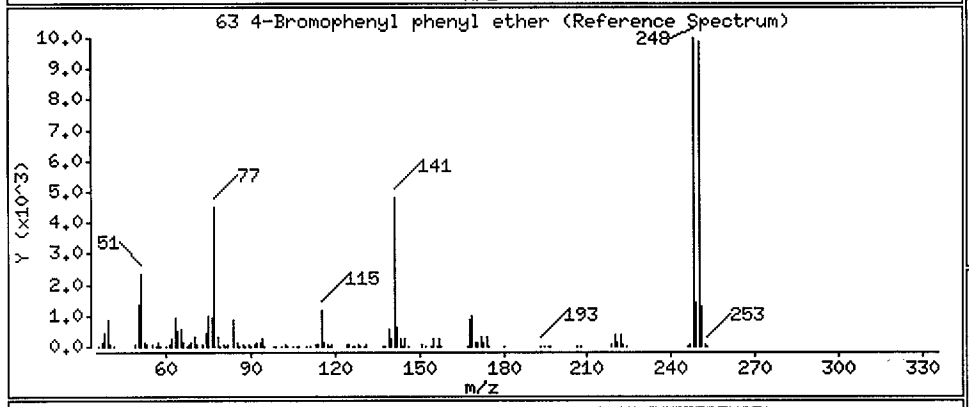
Column diameter: 0.25

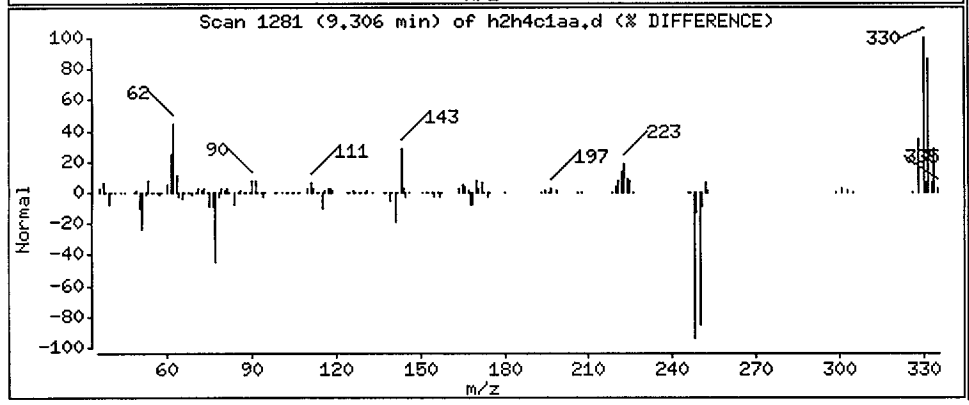
63 4-Bromophenyl phenyl ether

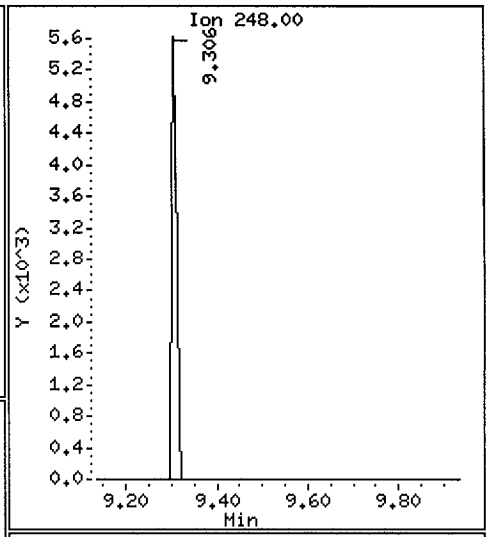
Concentration: 1.46 ug/L

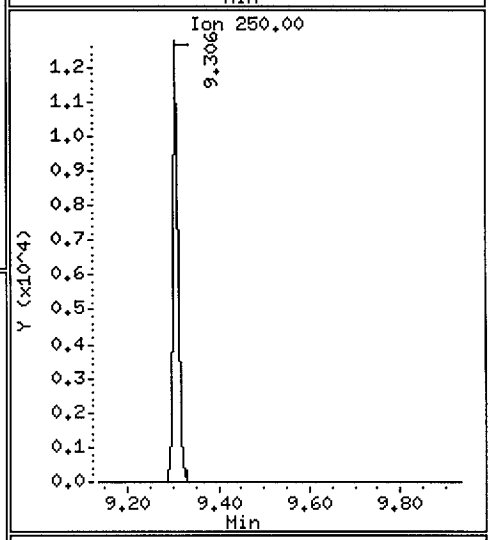


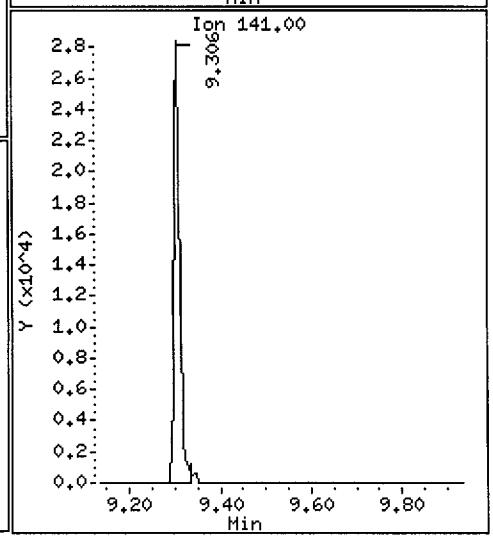












Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Report Date: 19-Apr-2006 15:46

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Lab Smp Id: H2H4C1AA Client Smp ID: G-2992-R2-SCRUBBER
Inj Date : 18-APR-2006 20:47
Operator : 60841 Inst ID: md.i
Smp Info : H2H4C1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	990.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	443289	20.000
* 2 Naphthalene-d8	5.745	409882	20.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Chloroiodomethane					CAS #: 593-71-5		
1.950	93515	4.21914372	4.26	91	NIST05.1	40831	1
Thiocyanic acid, ethyl ester					CAS #: 542-90-5		
3.900	586104	26.4434263	26.7	59	NIST05.1	1822	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d
Report Date: 19-Apr-2006 15:46

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
(E)-3-Chloro-2-methyl-2-pentenal					CAS #: 31357-76-3		
3.971	714544	42.2382915	32.6	27	NIST05.1	13952	1
1,2,4-Triazole, 3-trifluromethyl-4-methy					CAS #: 54770-35-3		
4.112	942489	42.5225530	43.0	43	NIST05.1	55123	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	608644	27.4603701	27.7	96	NIST05.1	23150	1
Acetoxyacetic acid, 2-methyloct-5-yn-4-y					CAS #: 1000299-20-6		
5.604	386068	18.8380070	19.0	10	NIST05.1	84996	2

Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

Client ID: G-2992-R2-SCRUBBER

Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

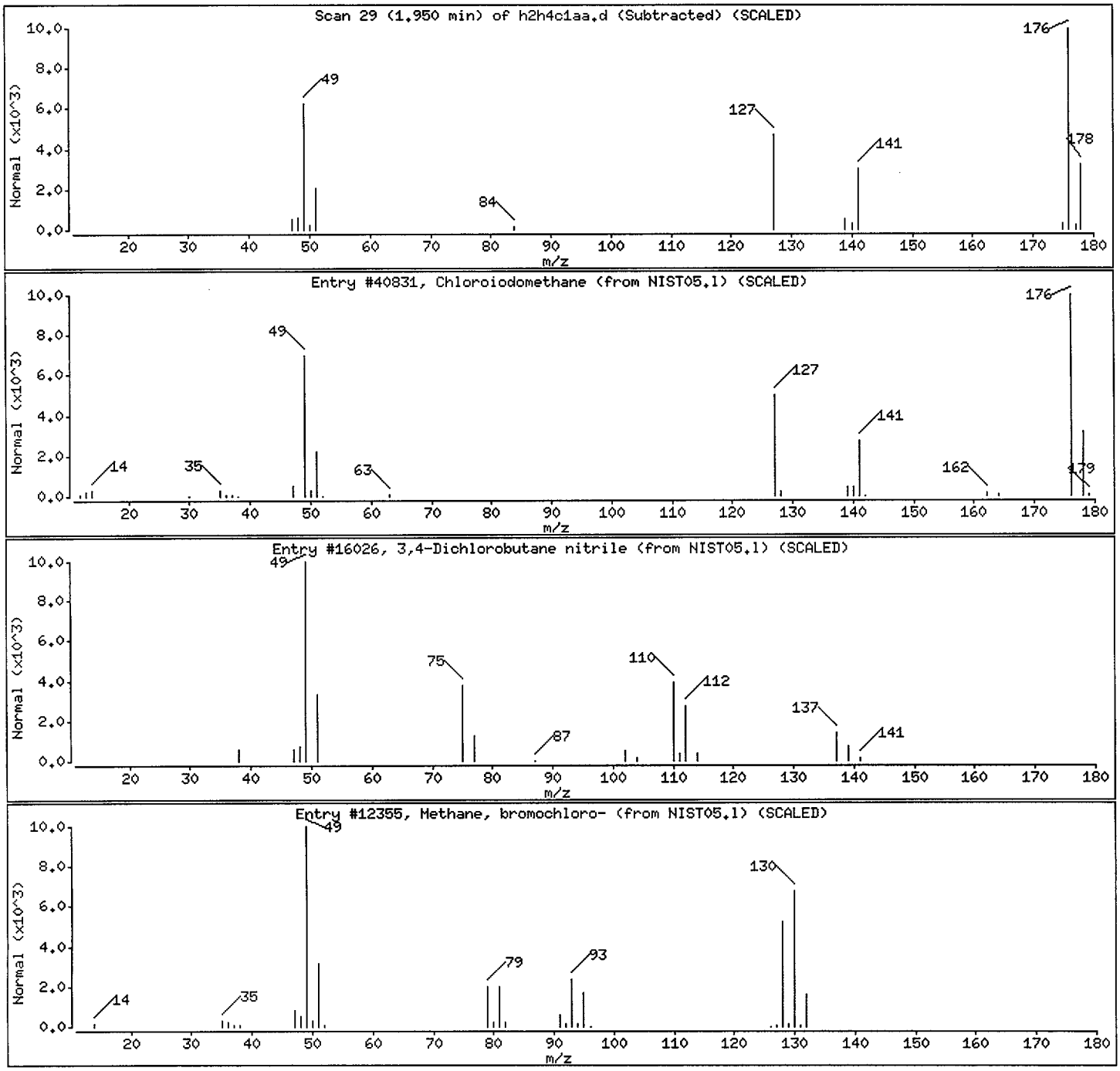
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chloroiodomethane	593-71-5	NIST05.1	40831	91	CH2ClI	176
3,4-Dichlorobutane nitrile	34362-21-5	NIST05.1	16026	37	C4H5Cl2N	137
Methane, bromochloro-	74-97-5	NIST05.1	12355	23	CH2BrCl	128



Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

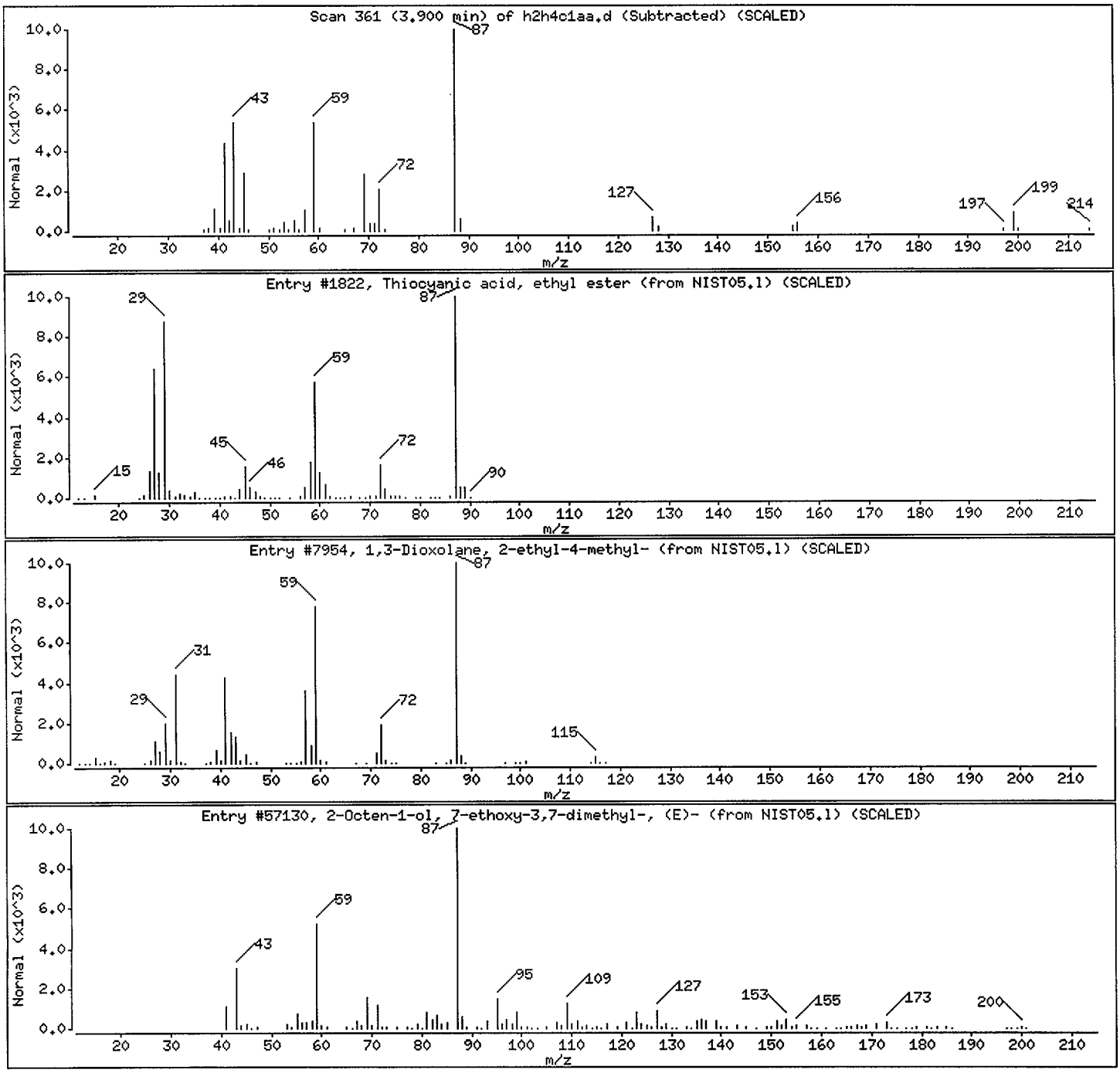
Client ID: G-2992-R2-SCRUBBER | Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thiocyanic acid, ethyl ester	542-90-5	NIST05.1	1822	59	C3H5NS	87
1,3-Dioxolane, 2-ethyl-4-methyl-	4359-46-0	NIST05.1	7954	53	C6H12O2	116
2-Octen-1-ol, 7-ethoxy-3,7-dimethyl-, (E	1000132-19-5	NIST05.1	57130	50	C12H24O2	200



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Date : 18-APR-2006 20:47

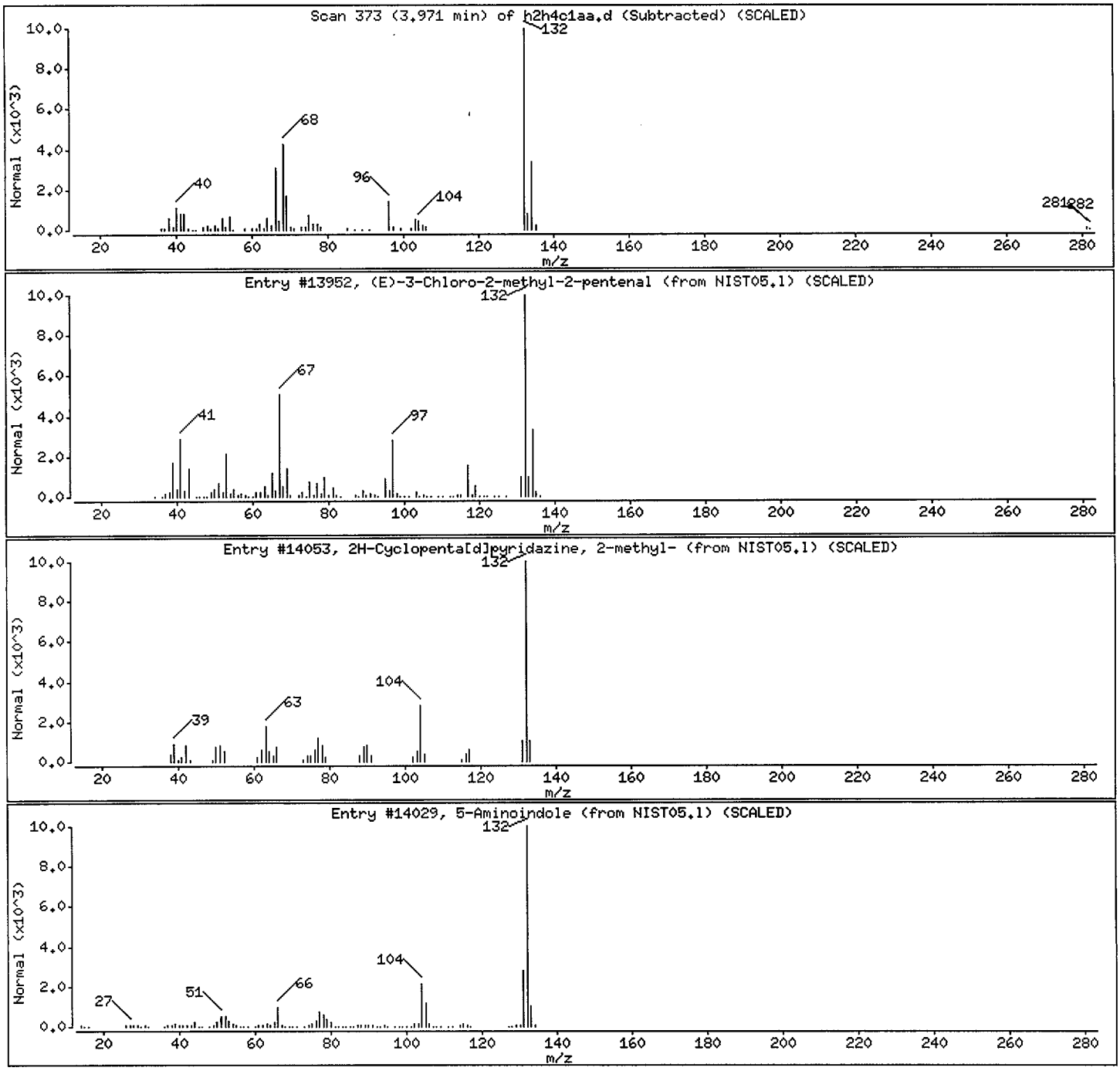
Client ID: G-2992-R2-SCRUBBER | Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(E)-3-Chloro-2-methyl-2-pentenal	31357-76-3	NIST05.1	13952	27	C6H9ClO	132
2H-Cyclopenta[d]pyridazine, 2-methyl-	22291-85-6	NIST05.1	14053	12	C8H8N2	132
5-Aminoindole	5192-03-0	NIST05.1	14029	12	C8H8N2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

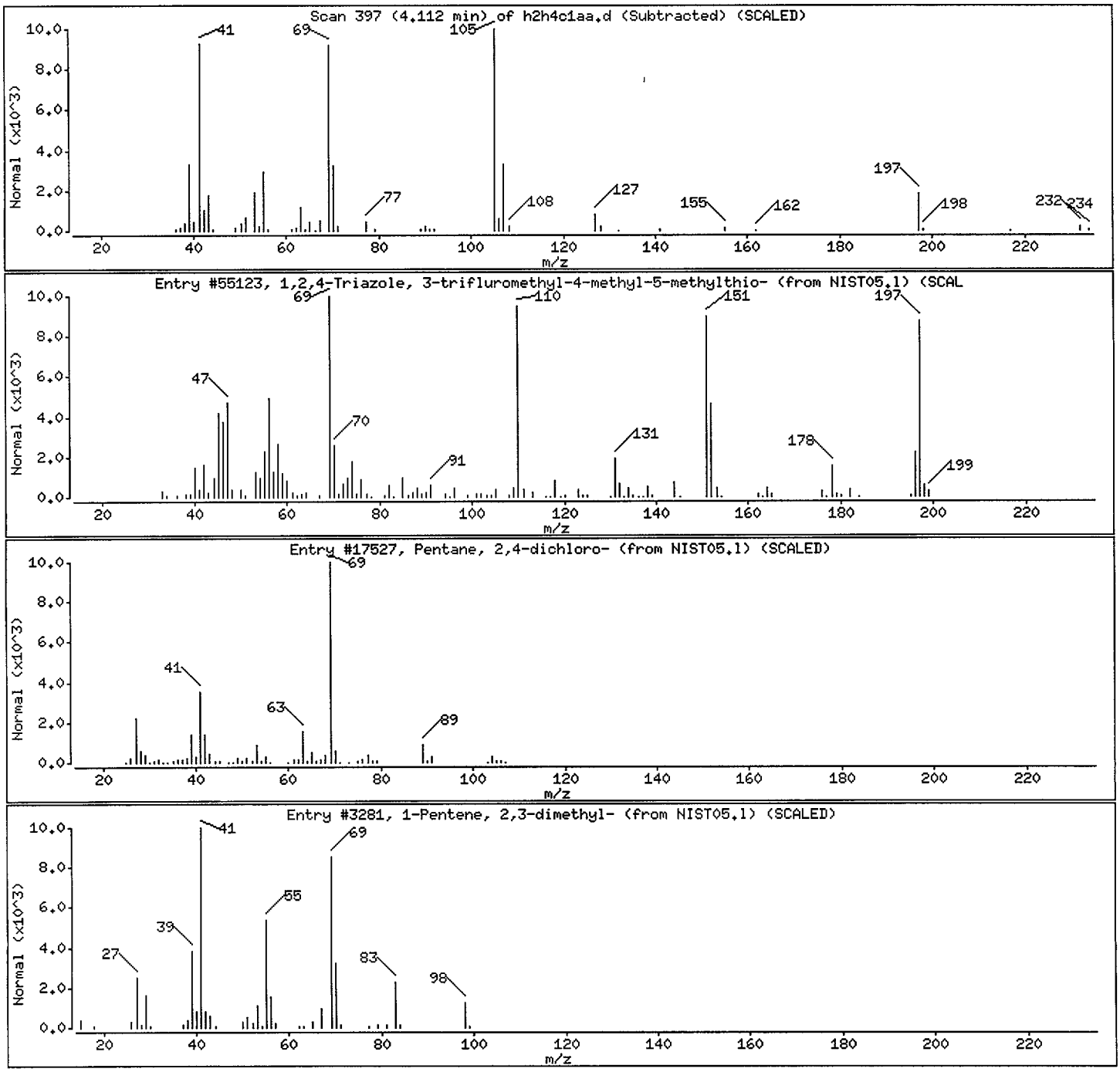
Client ID: G-2992-R2-SCRUBBER | Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2,4-Triazole, 3-trifluromethyl-4-methy	54770-35-3	NIST05.1	55123	43	C5H6F3N3S	197
Pentane, 2,4-dichloro-	625-67-2	NIST05.1	17527	38	C5H10Cl2	140
1-Pentene, 2,3-dimethyl-	3404-72-6	NIST05.1	3281	38	C7H14	98



Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

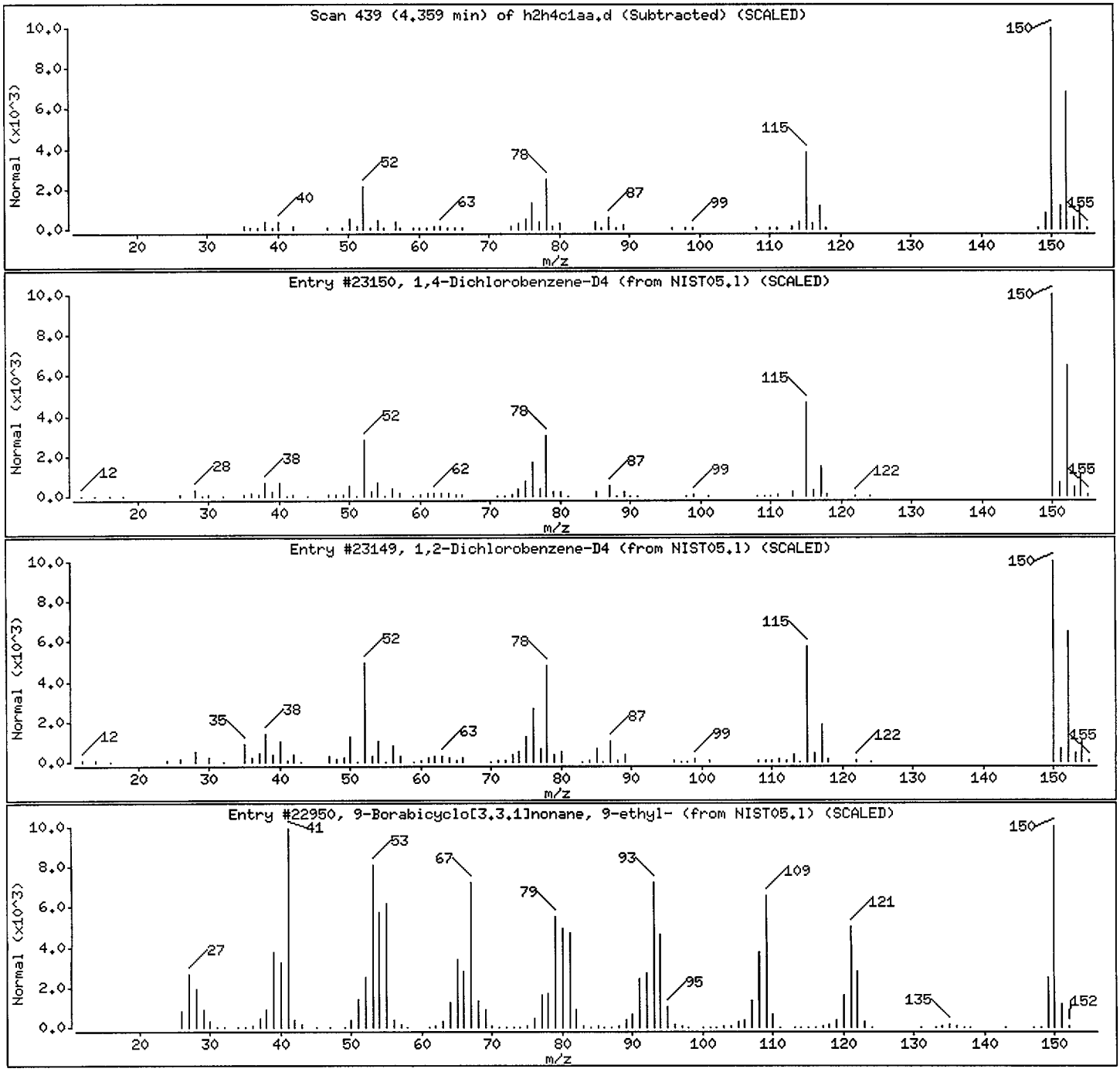
Client ID: G-2992-R2-SCRUBBER | Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.l	23150	96	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.l	23149	96	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.l	22950	38	C10H19B	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h4c1aa.d

Date : 18-APR-2006 20:47

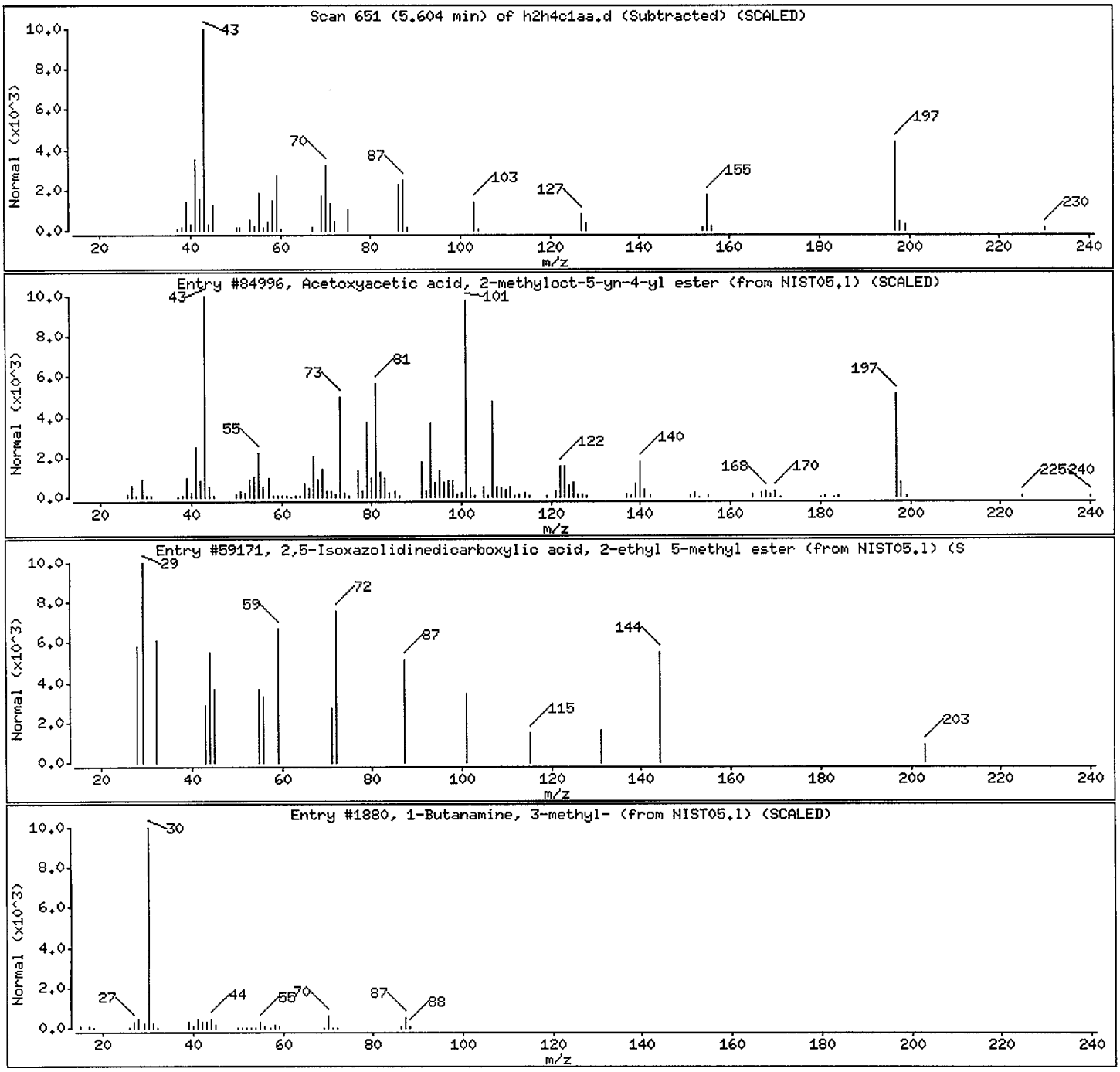
Client ID: G-2992-R2-SCRUBBER Instrument: md.i

Sample Info: H2H4C1AA,,0,,,,

Volume Injected (uL): 1.0 Operator: 60841

Column phase: ZB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetoxyacetic acid, 2-methyloct-5-yn-4-y	1000299-20-6	NIST05.1	84996	10	C13H2004	240
2,5-Isoxazolidinedicarboxylic acid, 2-et	15166-62-8	NIST05.1	59171	10	C8H13N05	203
1-Butanamine, 3-methyl-	107-85-7	NIST05.1	1880	10	C5H13N	87



STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	54	(49 - 109)
Nitrobenzene-d5	61	(57 - 120)
2-Fluorobiphenyl	70	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	87	(33 - 142)

STL Knoxville - ACS

G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-008 **Work Order #:** H2H4D1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	3.9003	ug/L
Unknown		5.7 NJ	M	5.6042	ug/L
Unknown		6.3 NJ	M	6.9145	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	10 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Lab Smp Id: H2H4D1AA Client Smp ID: G-2996-R2-POTW DISC
Inj Date : 18-APR-2006 21:10
Operator : 60841 Inst ID: md.i
Smp Info : H2H4D1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	980.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

04-20-06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	68371	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	210370	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	152575	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	263638	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	275936	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	264867	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	165433	34.5998	35.3
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	232980	40.3954	41.2
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	143819	30.3284	30.9
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	350179	34.8144	35.5
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	84262	50.4044	51.4
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	585756	43.6442	44.5
24 2,2'-Oxybis(1-Chloropropane)	45	4.171	4.500	(1.003)	9120	1.24752	~~1.27~~
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	5311	1.81046	~~1.85~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Report Date: 19-Apr-2006 13:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	5112	0.50866	0.519
84 Benzidine	184	11.204	11.016	(1.129)	6543	0.60556	~~0.618~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4d1aa.d
Lab Smp Id: H2H4D1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2996-R2-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	68371	10.41
2 Naphthalene-d8	196946	98473	393892	210370	6.82
3 Acenaphthene-d10	140395	70198	280790	152575	8.68
4 Phenanthrene-d10	245474	122737	490948	263638	7.40
5 Chrysene-d12	253631	126816	507262	275936	8.79
6 Perylene-d12	225613	112806	451226	264867	17.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

RECOVERY REPORT

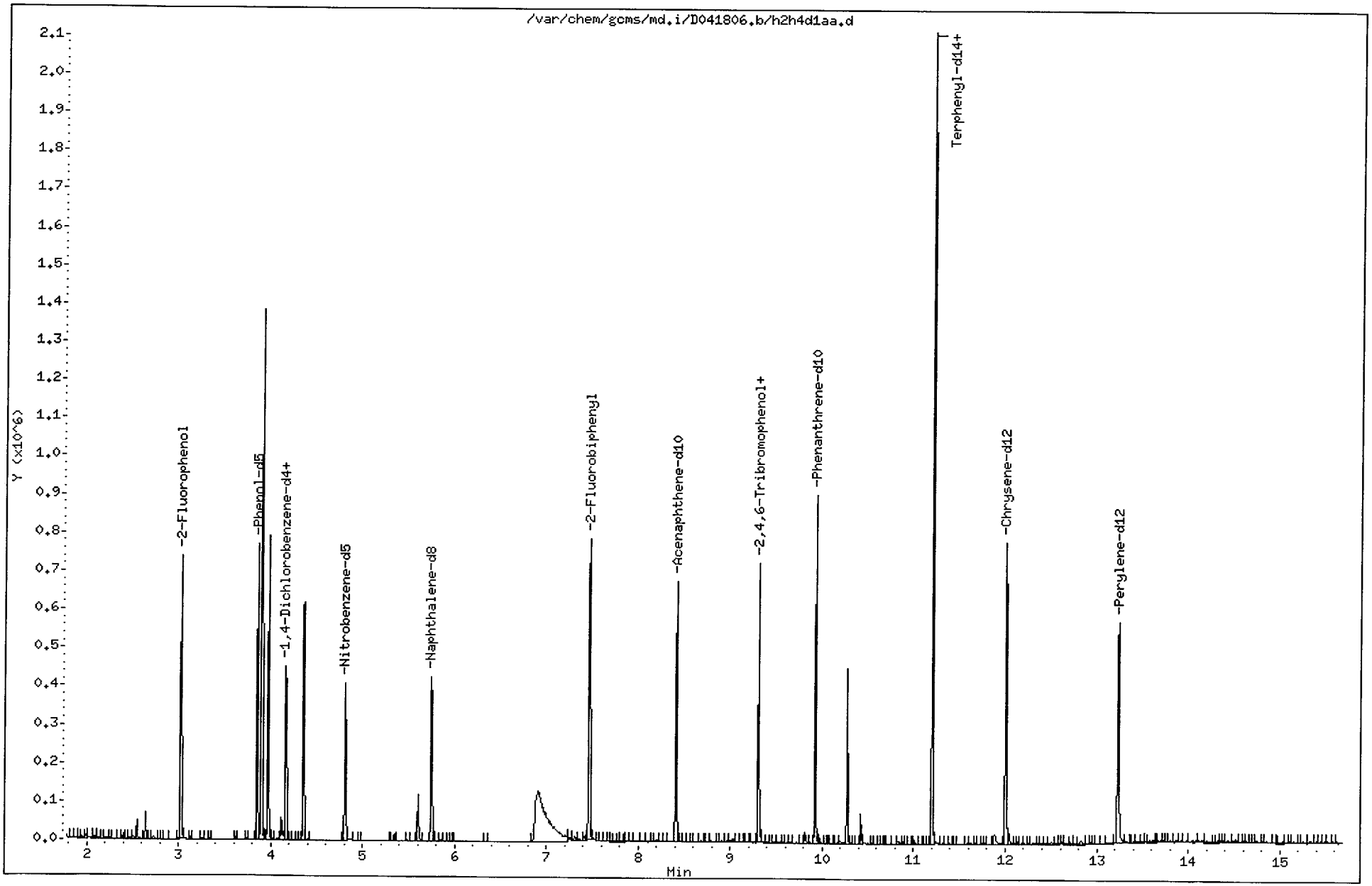
Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H4D1AA
Client Smp ID: G-2996-R2-POTW DISC
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	76.5	35.3	46.13	36-98
$ 8 Phenol-d5	76.5	41.2	53.86	49-109
$ 9 Nitrobenzene-d5	51.0	30.9	60.66	57-120
$ 10 2-Fluorobiphenyl	51.0	35.5	69.63	56-118
$ 11 2,4,6-Tribromophen	76.5	51.4	67.21	55-134
$ 12 Terphenyl-d14	51.0	44.5	87.29	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Date : 18-APR-2006 21:10
Client ID: G-2996-R2-POTW DISC
Sample Info: H2H4D1AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

Client ID: G-2996-R2-POTW DISC

Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0

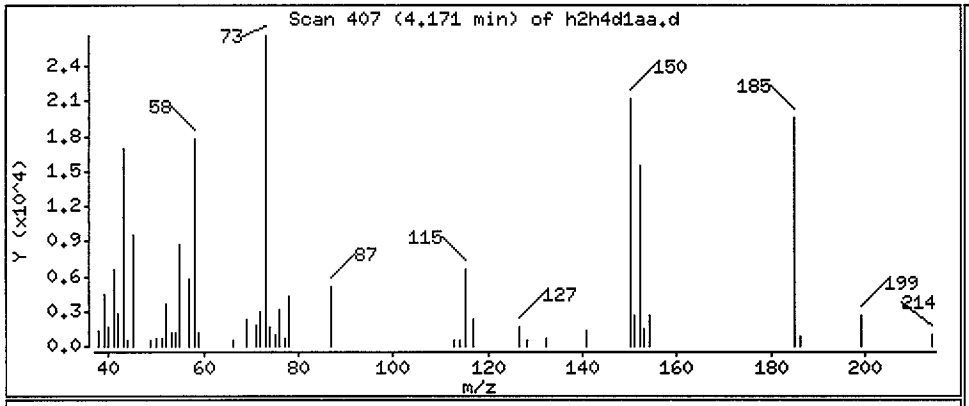
Operator: 60841

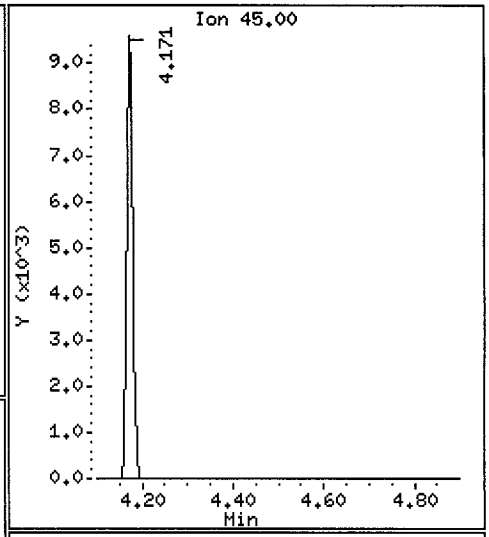
Column phase: ZB-5

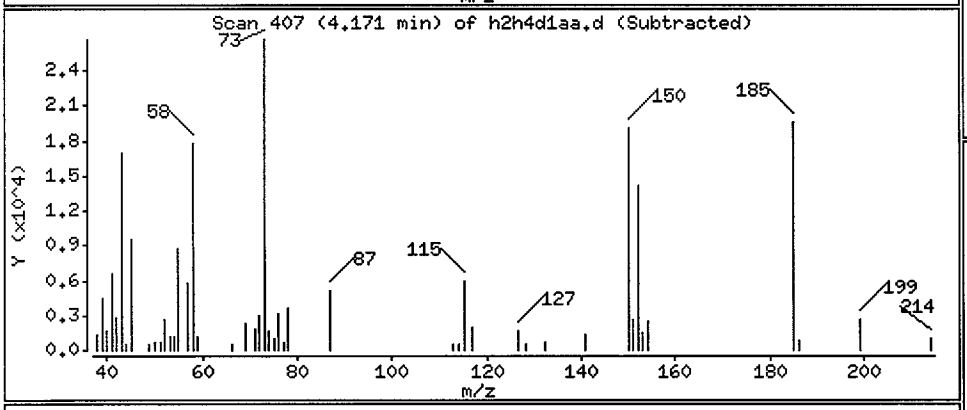
Column diameter: 0.25

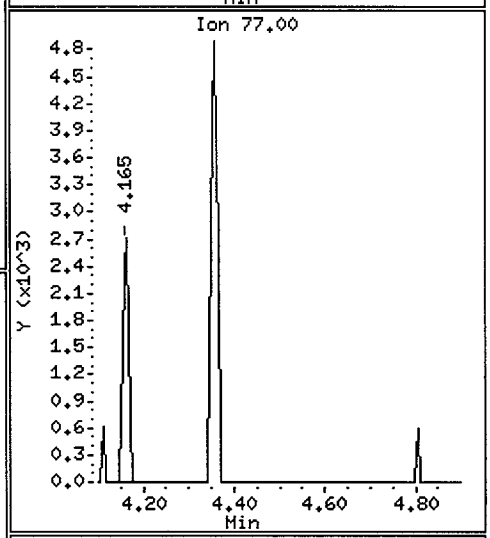
24 2,2'-Oxybis(1-Chloropropane)

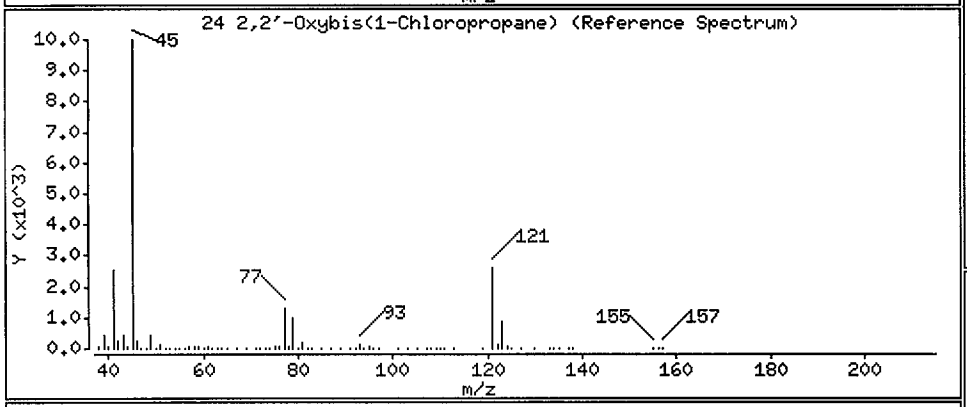
Concentration: 1.27 ug/L

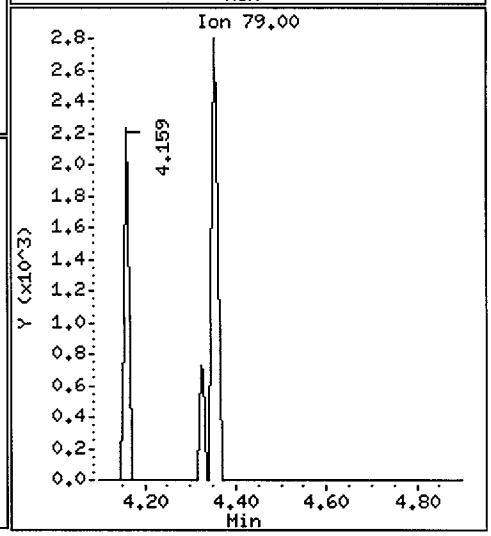


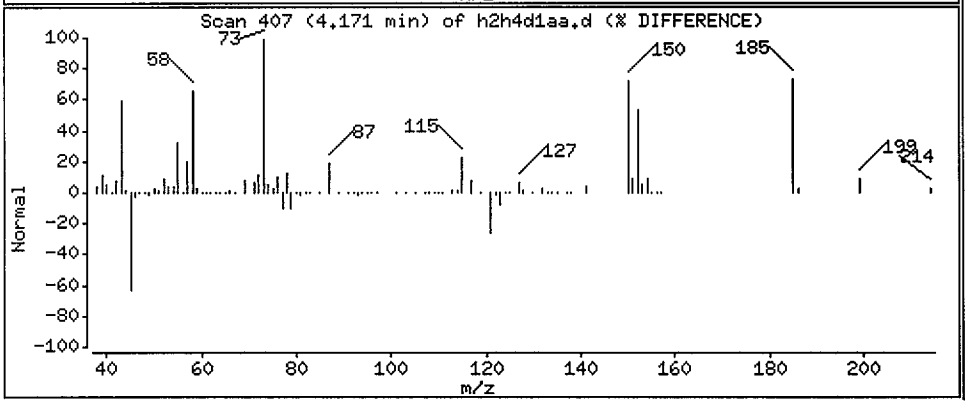












Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

Client ID: G-2996-R2-POTW DISC

Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0

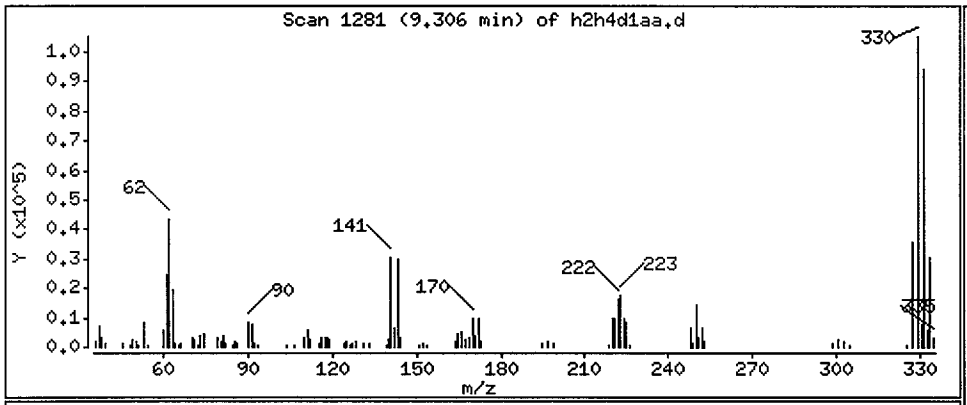
Operator: 60841

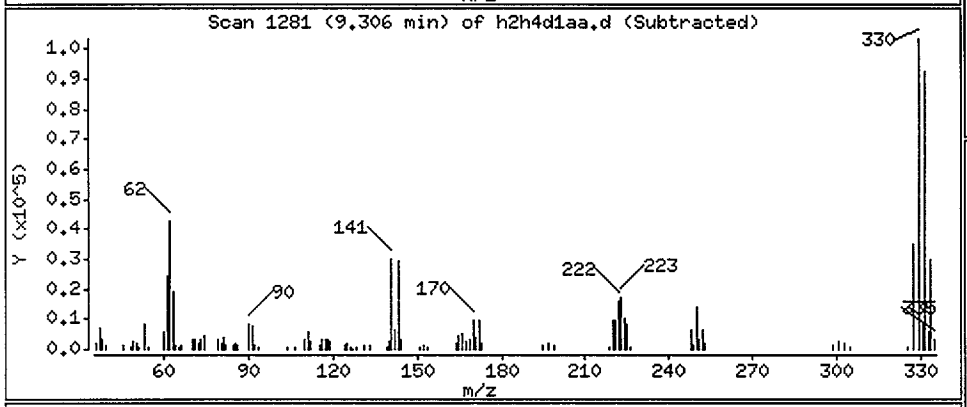
Column phase: ZB-5

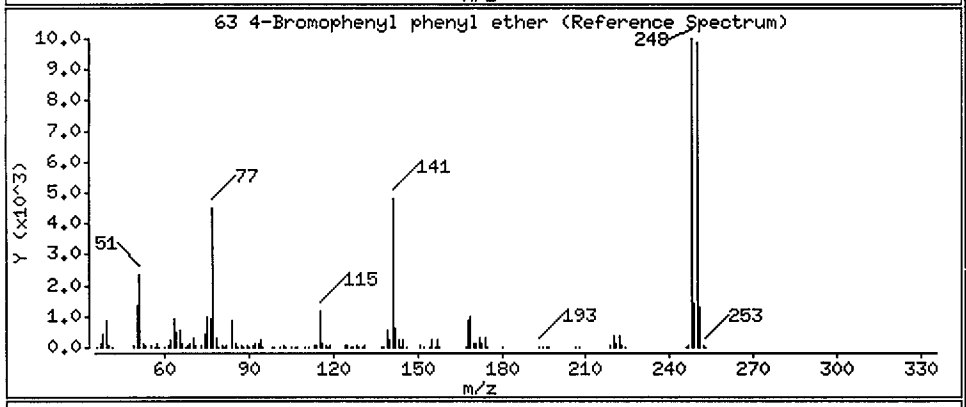
Column diameter: 0.25

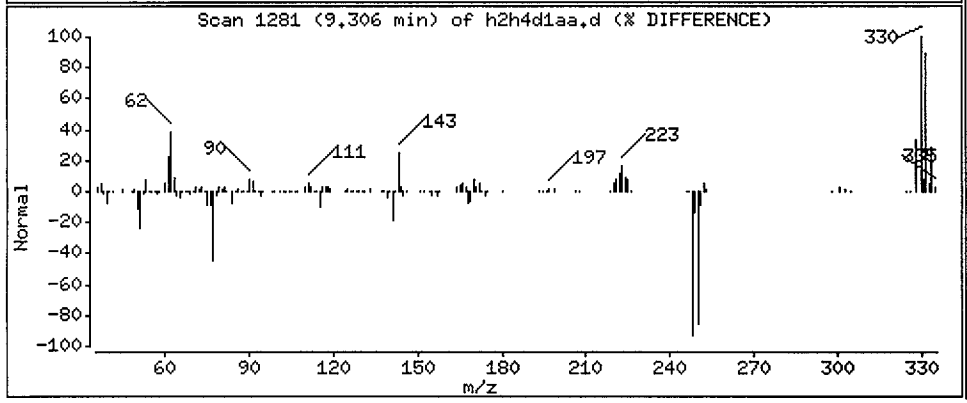
63 4-Bromophenyl phenyl ether

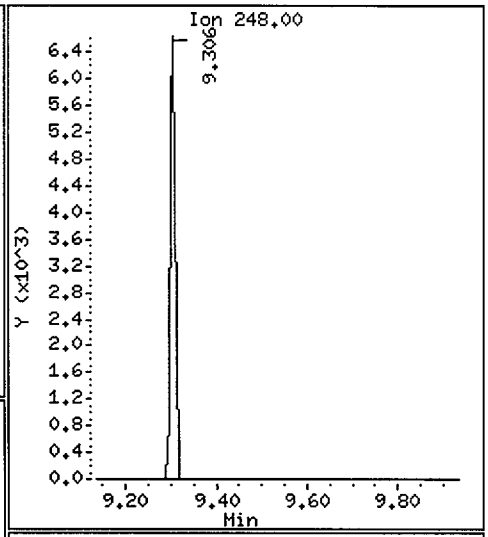
Concentration: 1.85 ug/L

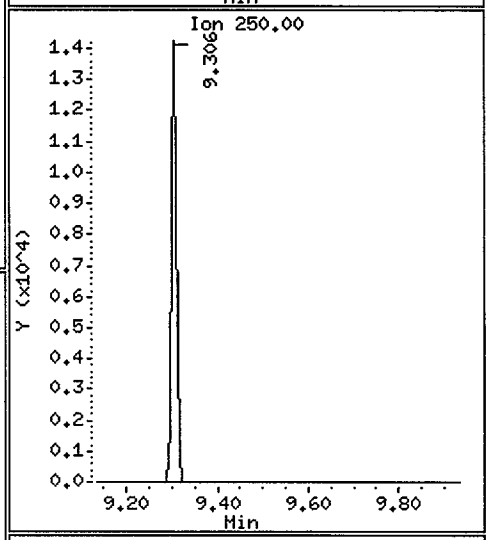


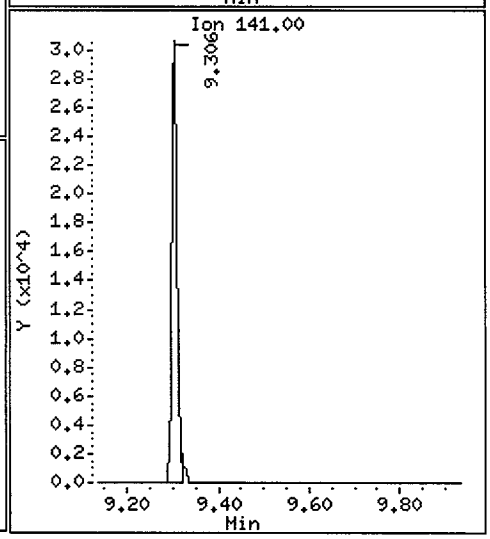












Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

Client ID: G-2996-R2-POTW DISC

Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0

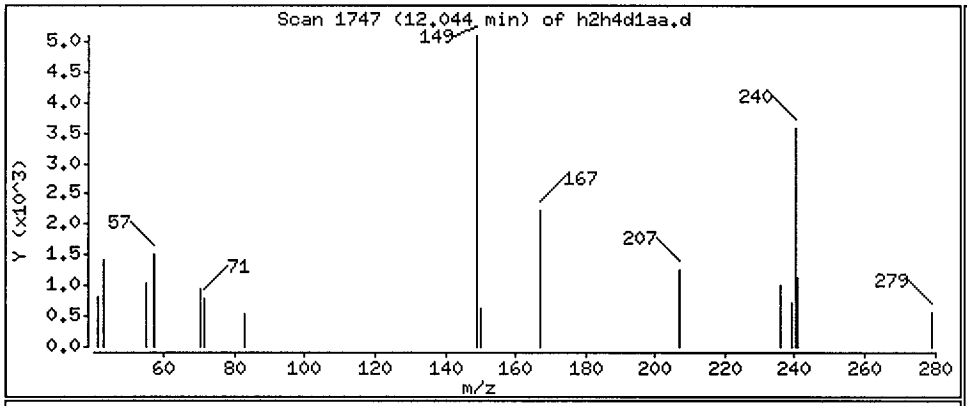
Operator: 60841

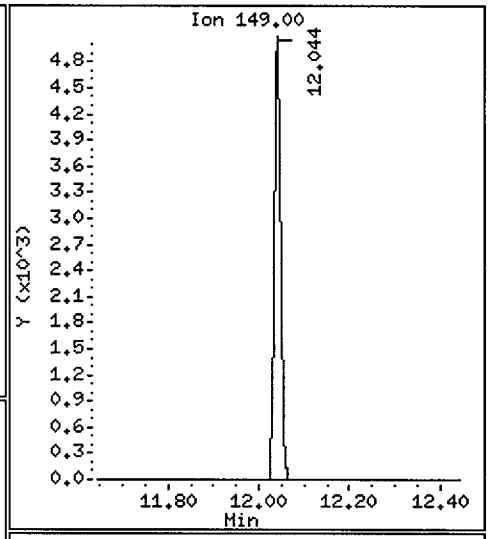
Column phase: ZB-5

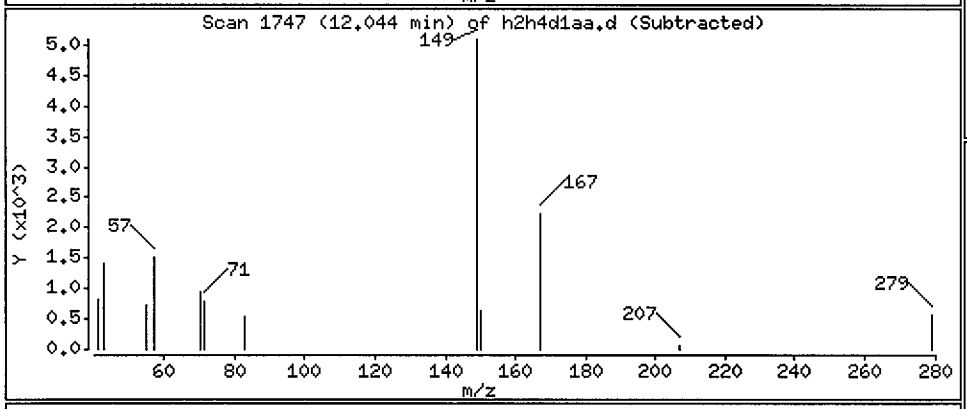
Column diameter: 0.25

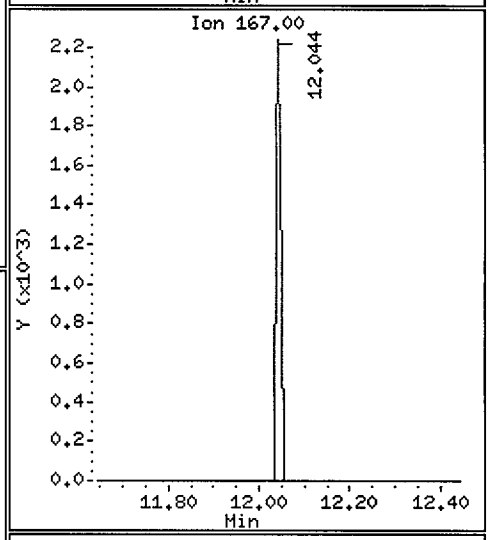
76 Bis(2-ethylhexyl) phthalate

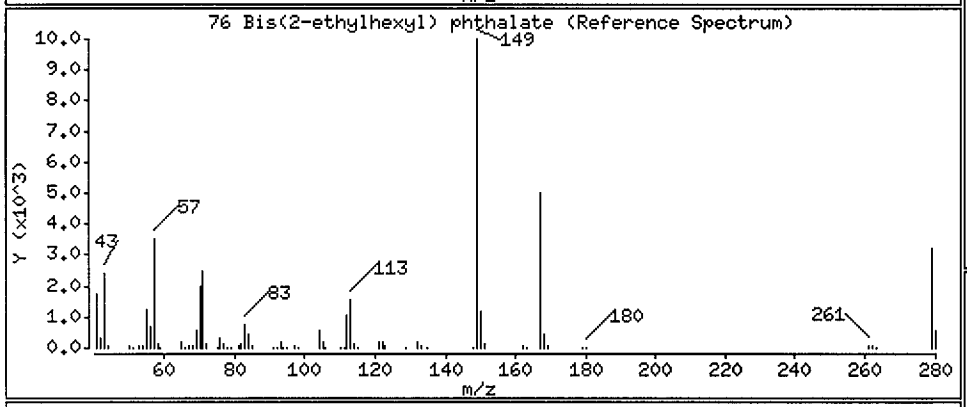
Concentration: 0.519 ug/L

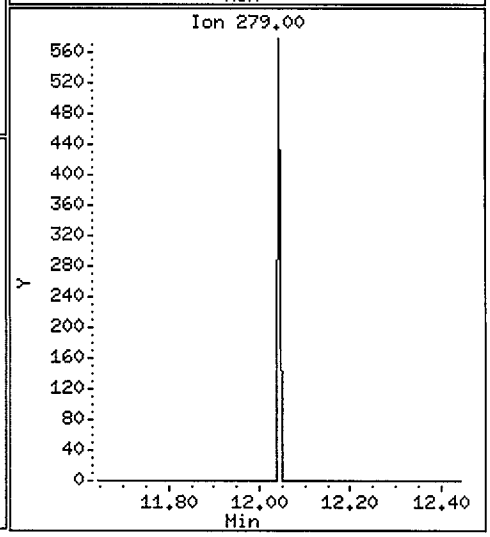


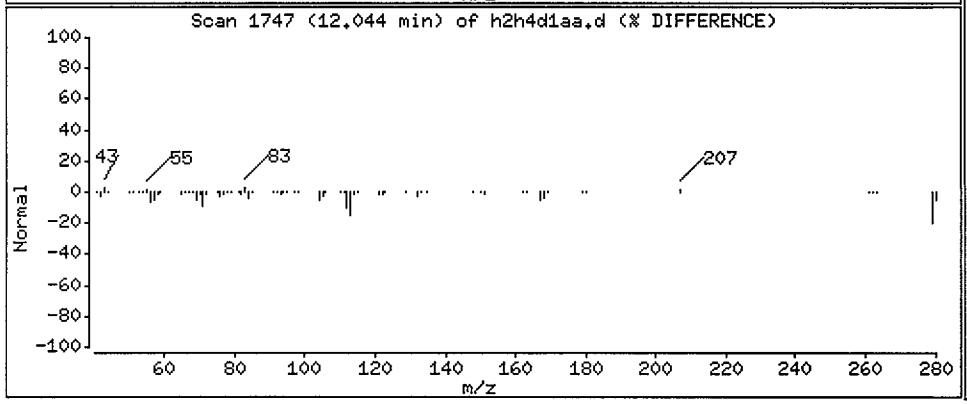












Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

Client ID: G-2996-R2-POTW DISC

Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0

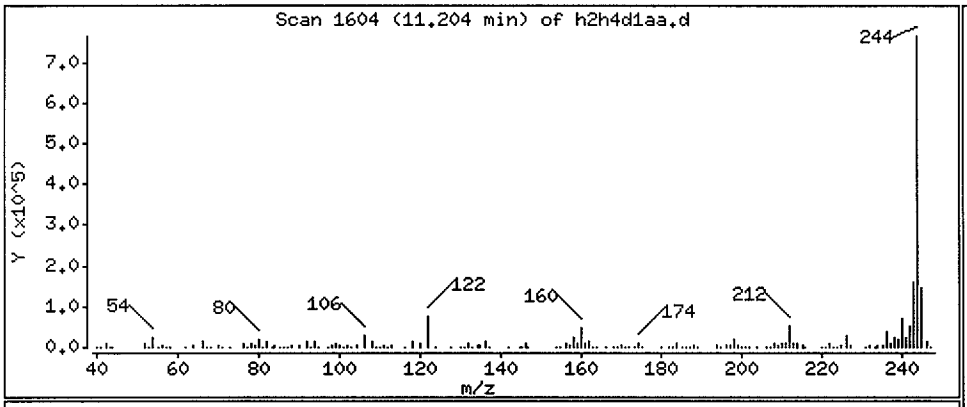
Operator: 60841

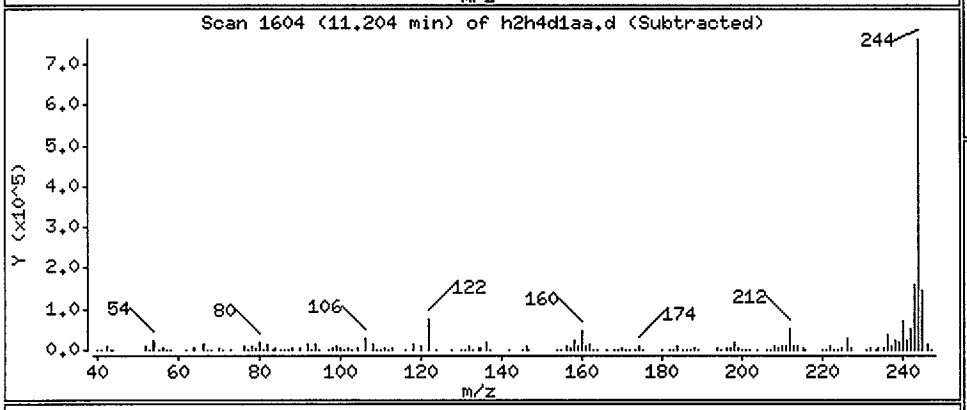
Column phase: ZB-5

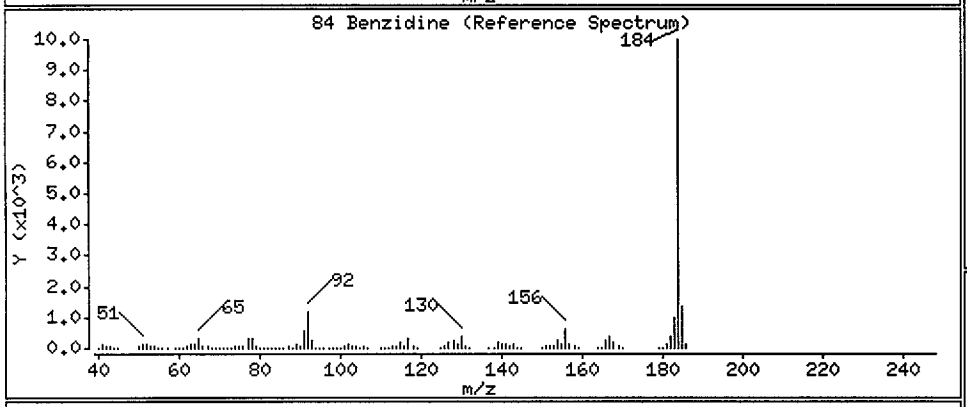
Column diameter: 0.25

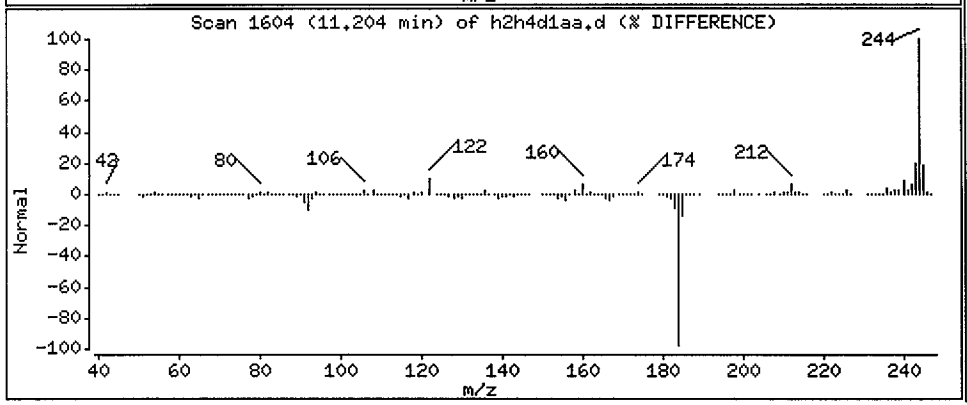
84 Benzidine

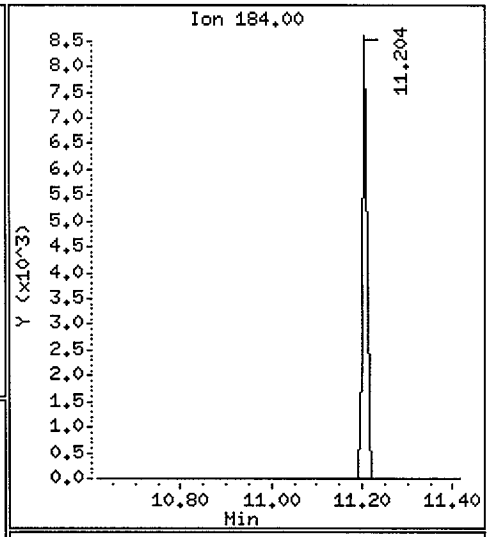
Concentration: 0.618 ug/L

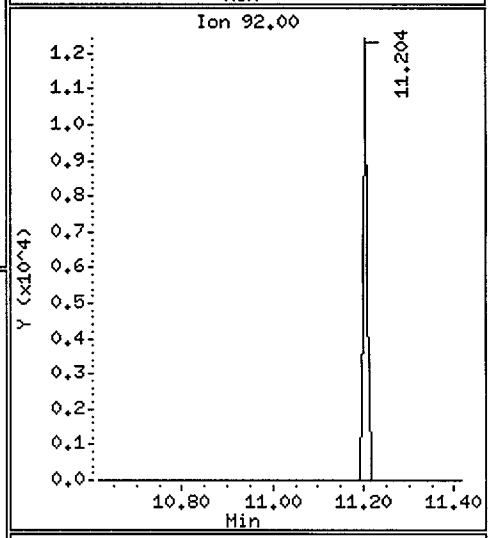


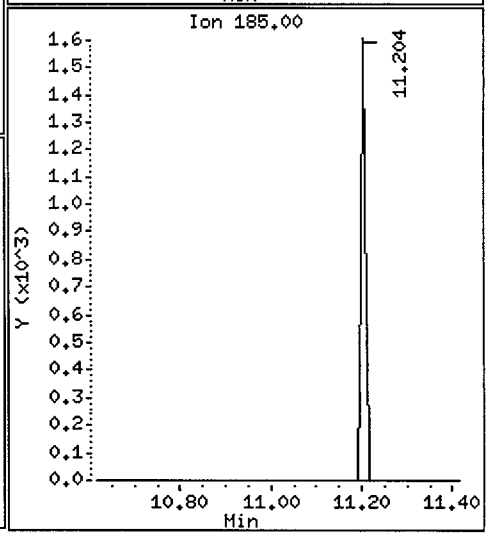












Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Report Date: 19-Apr-2006 15:48

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Lab Smp Id: H2H4D1AA Client Smp ID: G-2996-R2-POTW DISC
Inj Date : 18-APR-2006 21:10
Operator : 60841 Inst ID: md.i
Smp Info : H2H4D1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	980.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	452834	20.000
* 2 Naphthalene-d8	5.745	425976	20.000
* 4 Phenanthrene-d10	9.923	905229	20.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Thiocyanic acid, ethyl ester				CAS #: 542-90-5			
3.900	1386296	61.2275580	62.5	59	NIST05.1	1822	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d
Report Date: 19-Apr-2006 15:48

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
5-Fluoro-2-chloropyrimidine					CAS #: 62802-42-0		
3.971	791654	34.9644240	35.7	16	NIST05.1	13699	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	617422	27.2692422	27.8	96	NIST05.1	23150	1
Acetamide, N-(4,6-dimethoxypyrimidin-2-y					CAS #: 1000302-62-9		
5.604	119935	5.63106842	5.74	14	NIST05.1	55171	2
Butane, 1,4-bis[benzo[h]chroman-6-ol-5-y					CAS #: 1000129-12-0		
6.915	130713	6.13710632	6.26	14	NIST05.1	180457	2
N,N-Diethyl-p-nitroaniline					CAS #: 2216-15-1		
10.269	454945	10.0514897	10.2	98	NIST05.1	52341	4

Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

Client ID: G-2996-R2-POTW DISC

Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

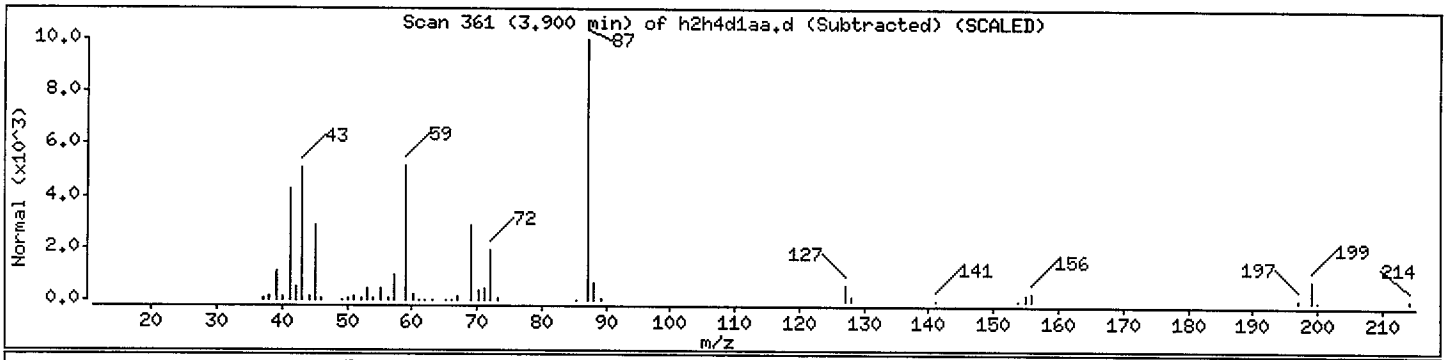
Volume Injected (uL): 1.0

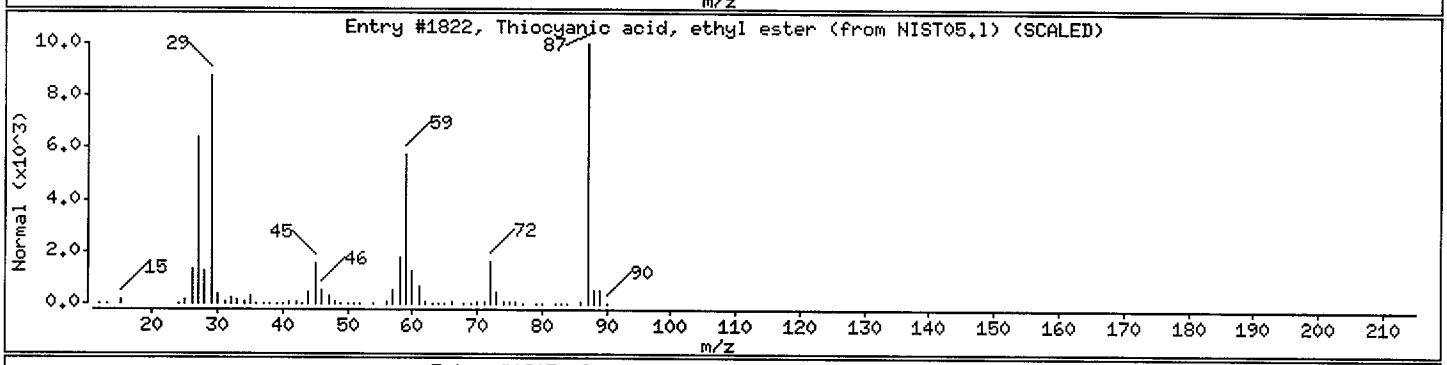
Operator: 60841

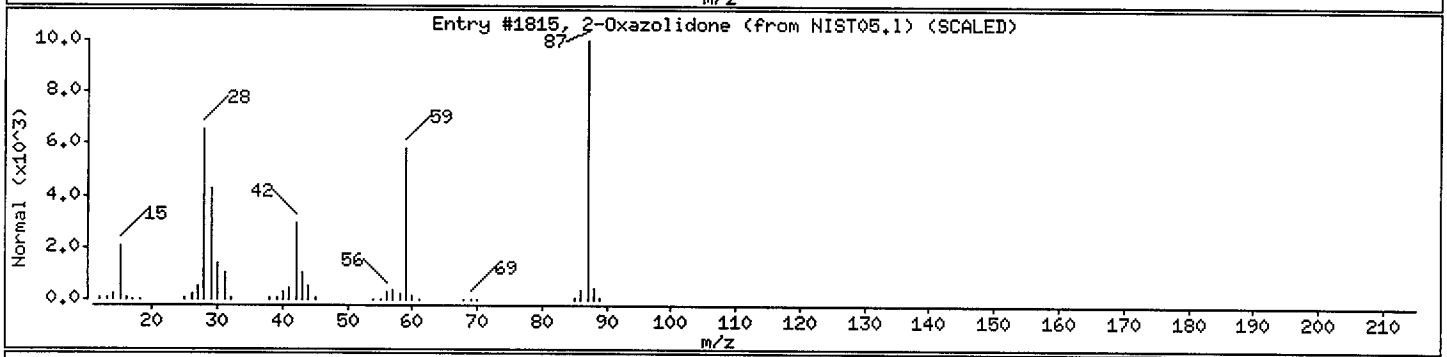
Column phase: ZB-5

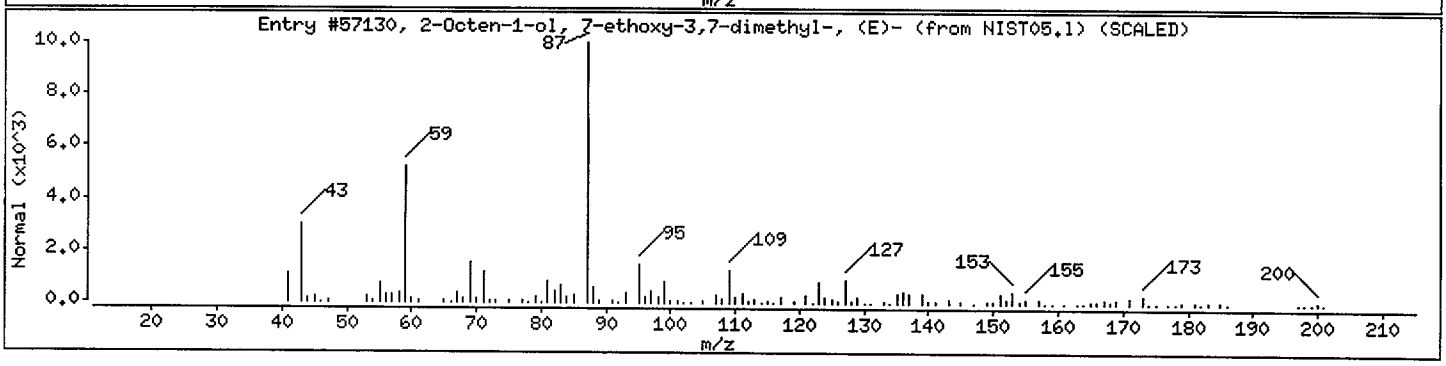
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thiocyanic acid, ethyl ester	542-90-5	NIST05.1	1822	59	C3H5NS	87
2-Oxazolidone	497-25-6	NIST05.1	1815	50	C3H5NO2	87
2-Octen-1-ol, 7-ethoxy-3,7-dimethyl-, (E	1000132-19-5	NIST05.1	57130	50	C12H2402	200









Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

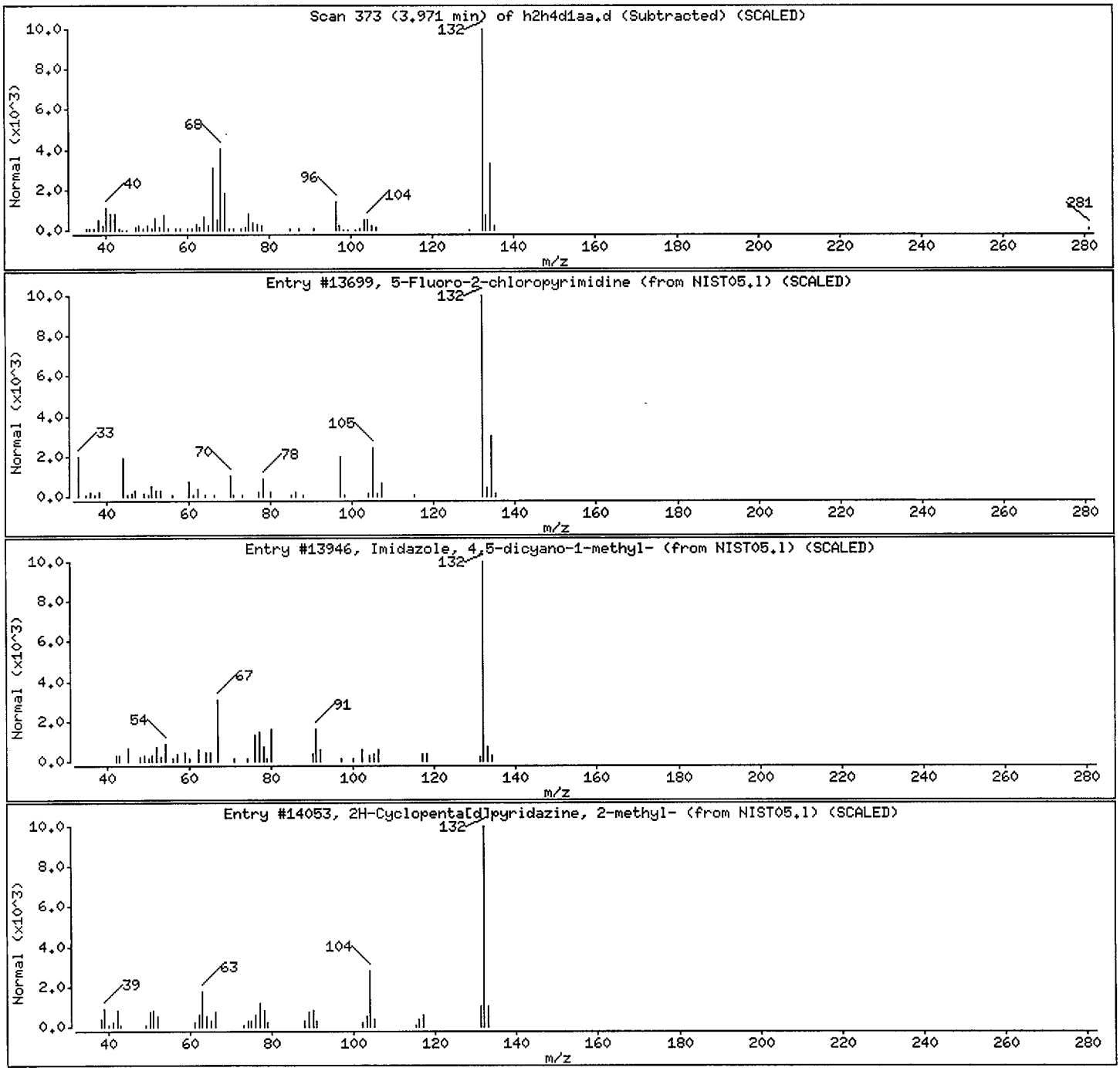
Client ID: G-2996-R2-POTW DISC | Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Fluoro-2-chloropyrimidine	62802-42-0	NIST05.1	13699	16	C4H2ClFN2	132
Imidazole, 4,5-dicyano-1-methyl-	19485-35-9	NIST05.1	13946	12	C6H4N4	132
2H-Cyclopenta[d]pyridazine, 2-methyl-	22291-85-6	NIST05.1	14053	12	C8H8N2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

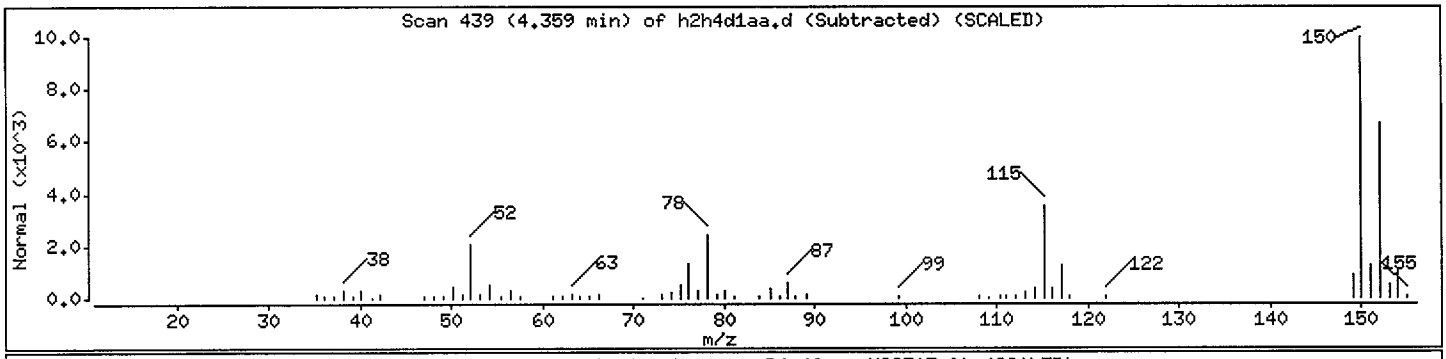
Client ID: G-2996-R2-POTW DISC | Instrument: md.i

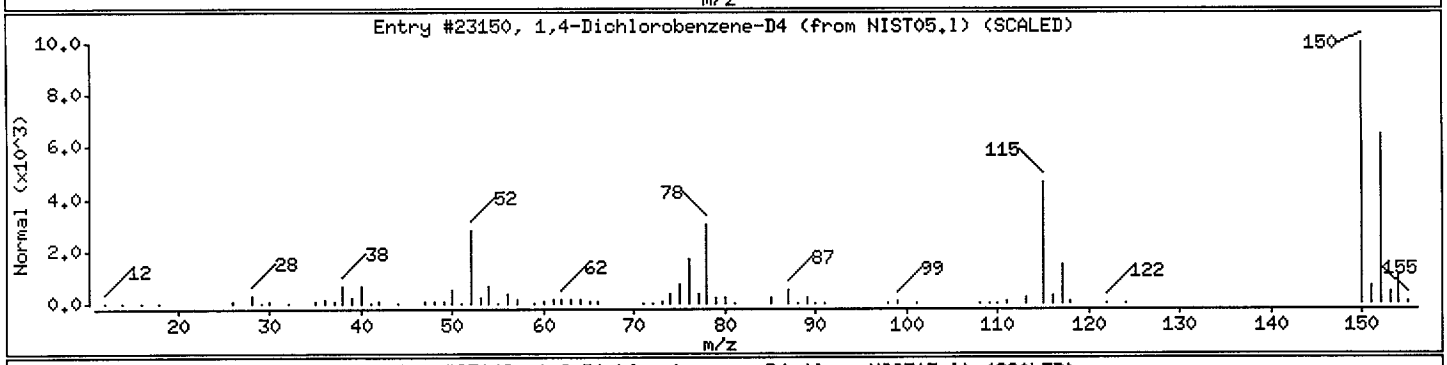
Sample Info: H2H4D1AA,,0,,,,

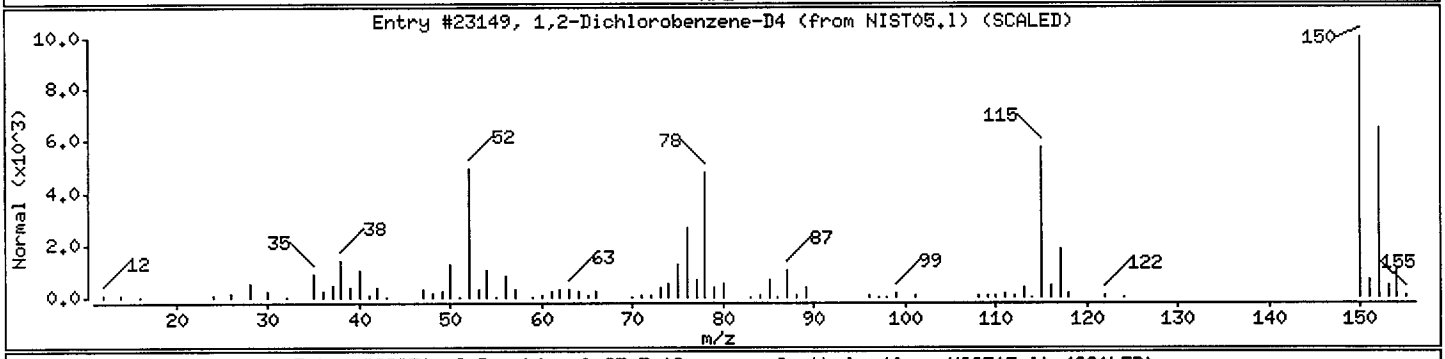
Volume Injected (uL): 1.0 | Operator: 60841

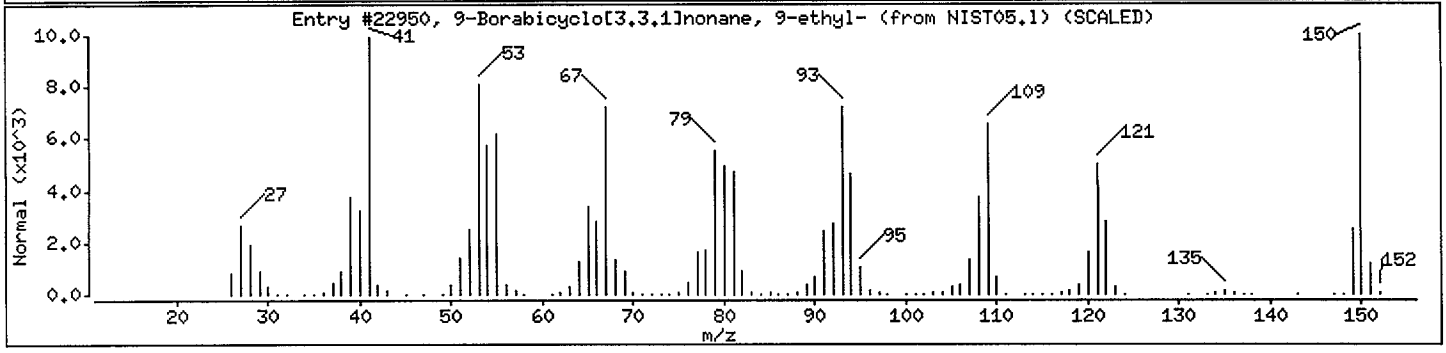
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	96	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	47	C10H19B	150









Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

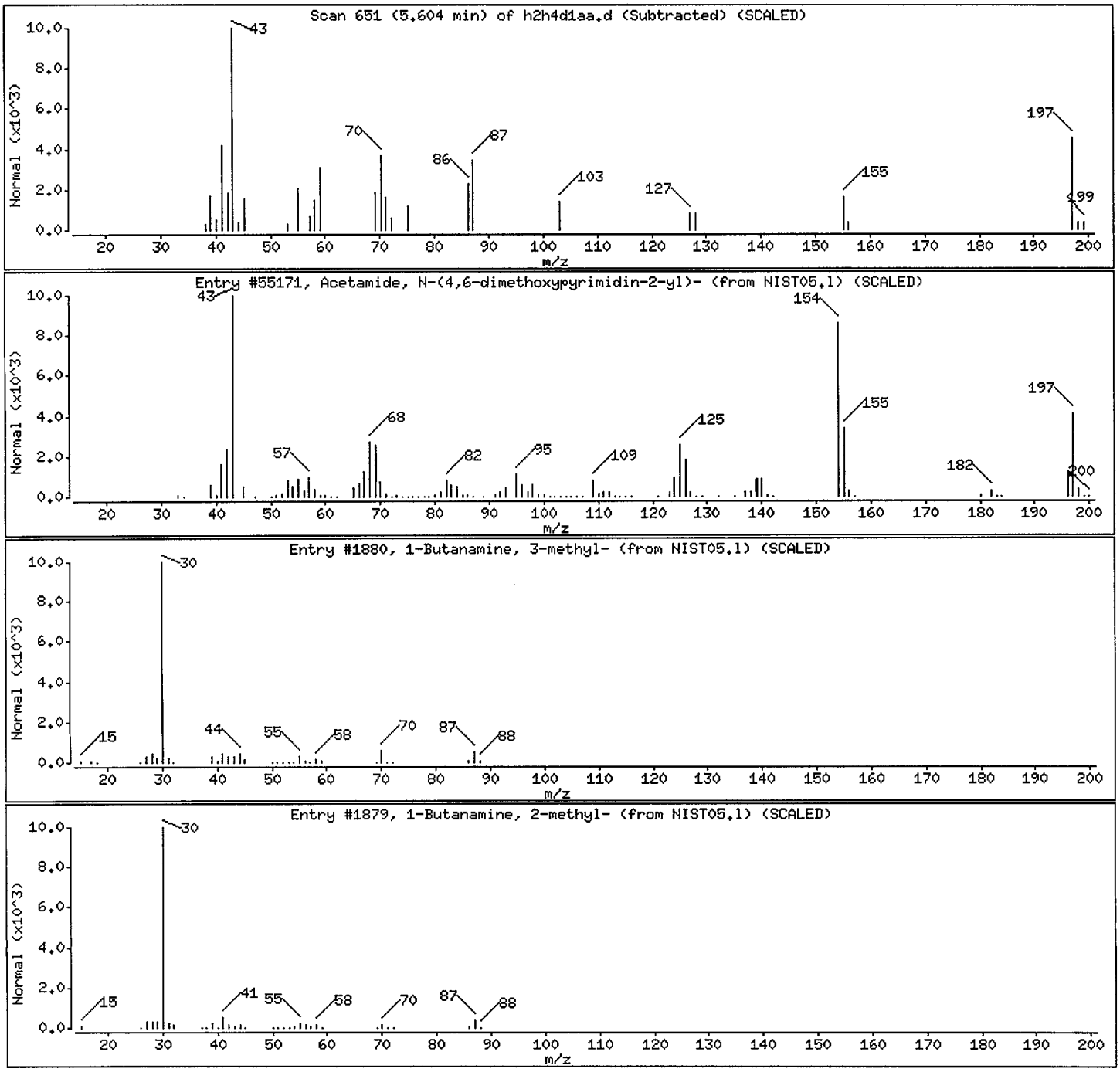
Client ID: G-2996-R2-POTW DISC | Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetamide, N-(4,6-dimethoxypyrimidin-2-y	1000302-62-9	NIST05.1	55171	14	C8H11N3O3	197
1-Butanamine, 3-methyl-	107-85-7	NIST05.1	1880	10	C5H13N	87
1-Butanamine, 2-methyl-	96-15-1	NIST05.1	1879	9	C5H13N	87



Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

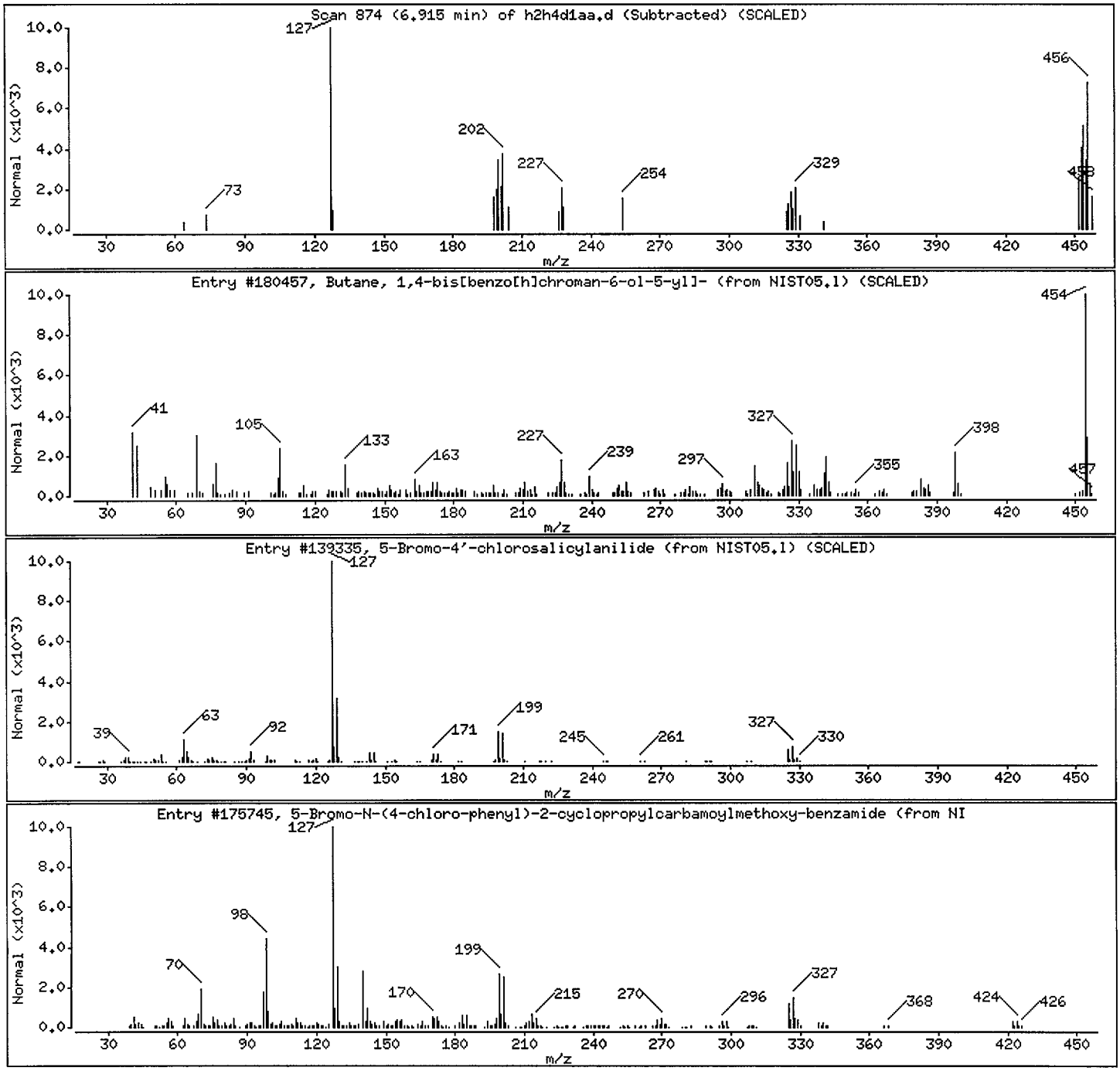
Client ID: G-2996-R2-POTW DISC | Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 1,4-bis[benzo[h]chroman-6-ol-5-y	1000129-12-0	NIST05.l	180457	14	C30H3004	454
5-Bromo-4'-chlorosalicylanilide	3679-64-9	NIST05.l	139335	10	C13H9BrClNO2	325
5-Bromo-N-(4-chloro-phenyl)-2-cyclopropy	1000275-08-5	NIST05.l	175745	10	C18H16BrClN2O3	422



Data File: /var/chem/gcms/md.i/D041806.b/h2h4d1aa.d

Date : 18-APR-2006 21:10

Client ID: G-2996-R2-POTW DISC

Instrument: md.i

Sample Info: H2H4D1AA,,0,,,,

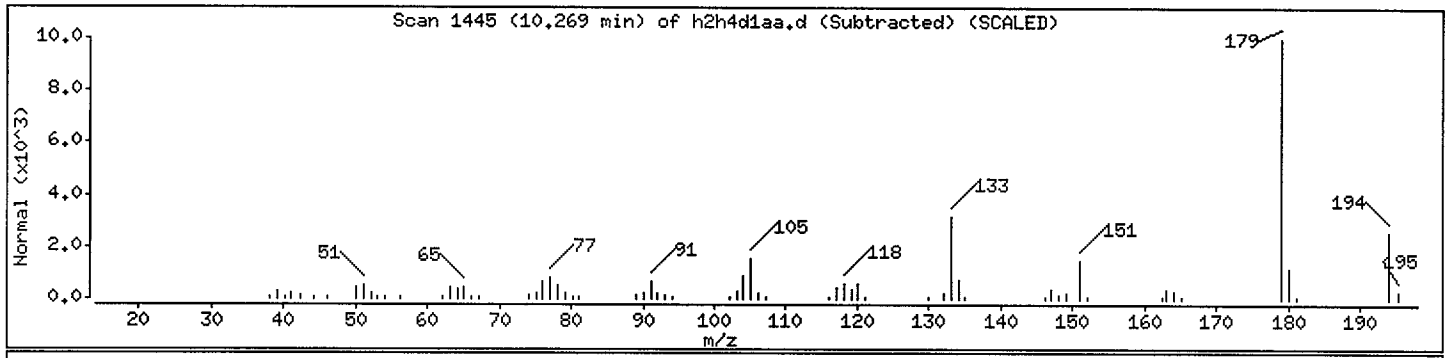
Volume Injected (uL): 1.0

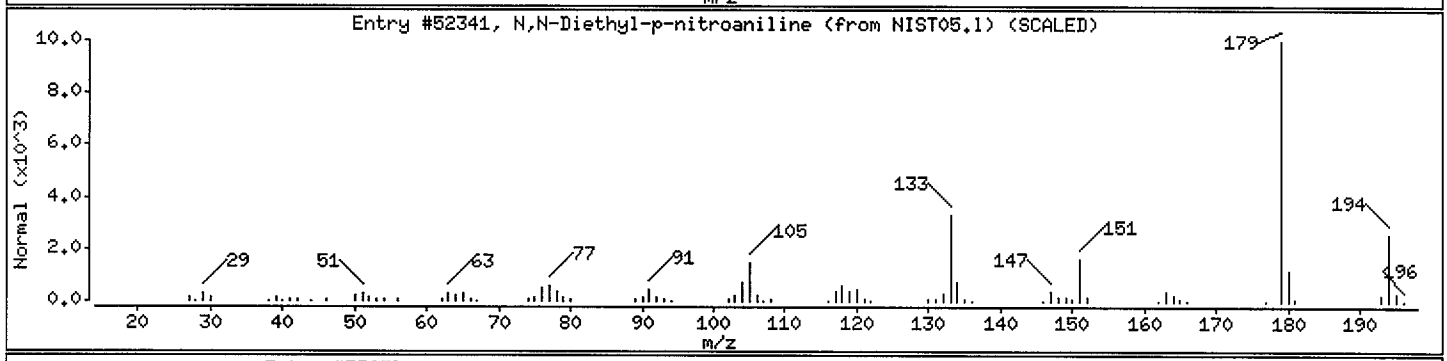
Operator: 60841

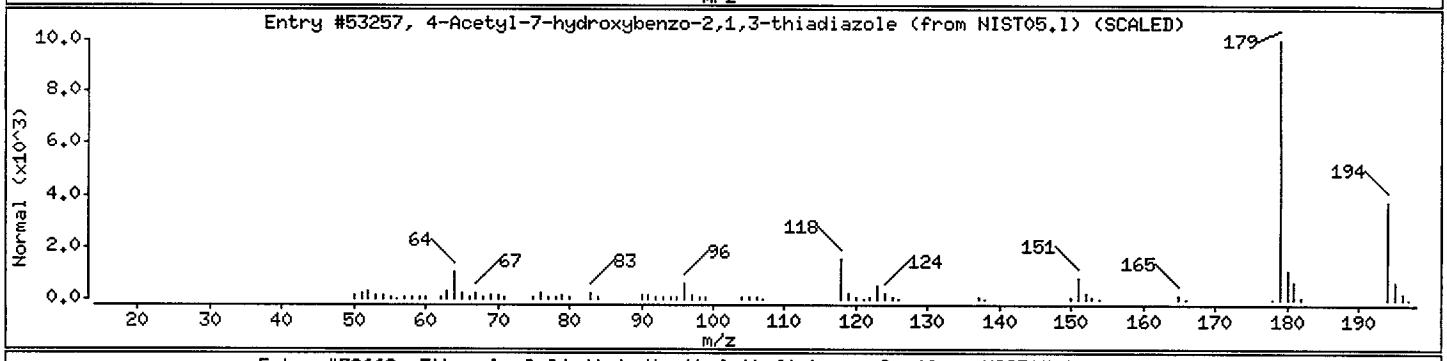
Column phase: ZB-5

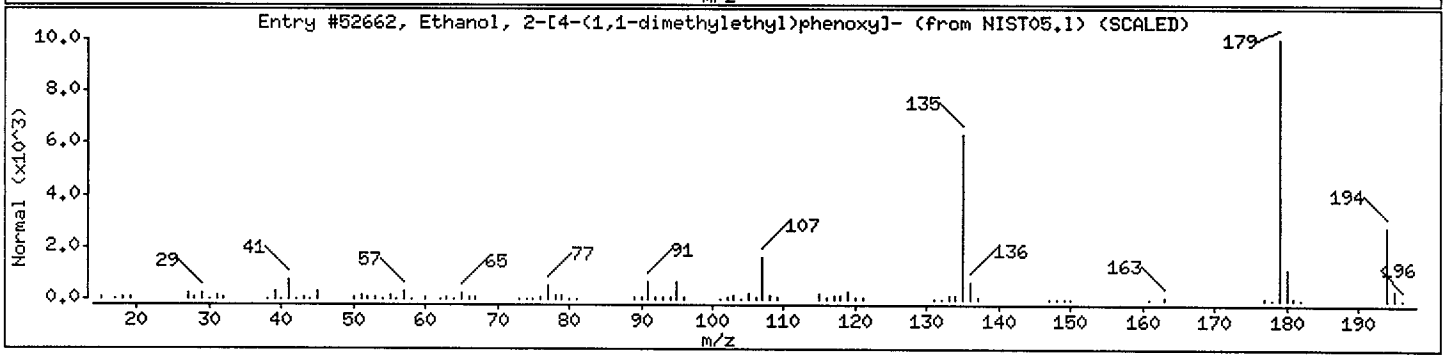
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
N,N-Diethyl-p-nitroaniline	2216-15-1	NIST05.1	52341	98	C10H14N2O2	194
4-Acetyl-7-hydroxybenzo-2,1,3-thiadiazol	120893-38-1	NIST05.1	53257	58	C8H6N2O2S	194
Ethanol, 2-[4-(1,1-dimethylethyl)phenoxy	713-46-2	NIST05.1	52662	58	C12H18O2	194









STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	3.0 *	(36 - 98)
Phenol-d5	0.41 *	(49 - 109)
Nitrobenzene-d5	55 *	(57 - 120)
2-Fluorobiphenyl	65	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	85	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-009 **Work Order #:** H2H4E1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		40 NJ	M	2.4724	ug/L
Unknown		29 NJ	M	3.0776	ug/L
Methane, tribromo-	75-25-2	6.5 NJ	M	3.1305	ug/L
Unknown		19 NJ	M	5.2986	ug/L
Unknown		4.7 NJ	M	6.3444	ug/L
Unknown		23 NJ	M	6.4149	ug/L
Unknown		4.8 NJ	M	6.6734	ug/L
Unknown		11 NJ	M	7.2493	ug/L
Unknown		4.5 NJ	M	7.5724	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	34 NJ	M	8.16	ug/L
Unknown		25 NJ	M	8.677	ug/L
Unknown		12 NJ	M	8.7828	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Lab Smp Id: H2H4E1AA Client Smp ID: G-3004-R2-MAKE-UP W
Inj Date : 18-APR-2006 21:34
Operator : 60841 Inst ID: md.i
Smp Info : H2H4E1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	940.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	63492	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	200235	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	145935	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	247374	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	266831	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	253877	20.0000	
$ 7 2-Fluorophenol	112	3.031	3.025	(0.729)	9966	2.24455	2.39(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	123514	27.3649	29.1(R)
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	314153	32.6537	34.7
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	67127	42.7949	45.5
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	553417	42.6416	45.4
46 2-Nitroaniline	65	8.160	7.831	(0.970)	2087	0.74756	~~0.795~~
50 3-Nitroaniline	138	8.160	8.413	(0.970)	8298	3.21300	~~2.42~~
51 Acenaphthene (ccc)	153	8.677	8.454	(1.031)	5334	0.64504	~~0.686~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Report Date: 19-Apr-2006 13:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
52 2,4-Dinitrophenol ##spcc##	184	8.677	8.536	(1.031)	384	11.9730	~~12.7~~
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	2360	1.46514	~~1.56~~
56 Fluorene	166	9.300	9.036	(1.105)	5185	0.50429	~~0.536~~
60 4,6-Dinitro-2-methylphenol	198	9.300	9.159	(0.937)	816	0.52468	~~0.558~~
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	3248	1.18015	~~1.26~~
84 Benzidine	184	11.204	11.016	(1.129)	6073	0.59896	~~0.637~~
104 m-dinitrobenzene	76	8.160	8.160	(0.970)	4008	3.29824	~~3.51~~
105 pentachlorobenzene	250	8.789	8.683	(1.045)	2010	0.53370	~~0.568~~

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4e1aa.d
Lab Smp Id: H2H4E1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-3004-R2-MAKE-UP W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	63492	2.53
2 Naphthalene-d8	196946	98473	393892	200235	1.67
3 Acenaphthene-d10	140395	70198	280790	145935	3.95
4 Phenanthrene-d10	245474	122737	490948	247374	0.77
5 Chrysene-d12	253631	126816	507262	266831	5.20
6 Perylene-d12	225613	112806	451226	253877	12.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Report Date: 19-Apr-2006 13:57

STL Knoxville

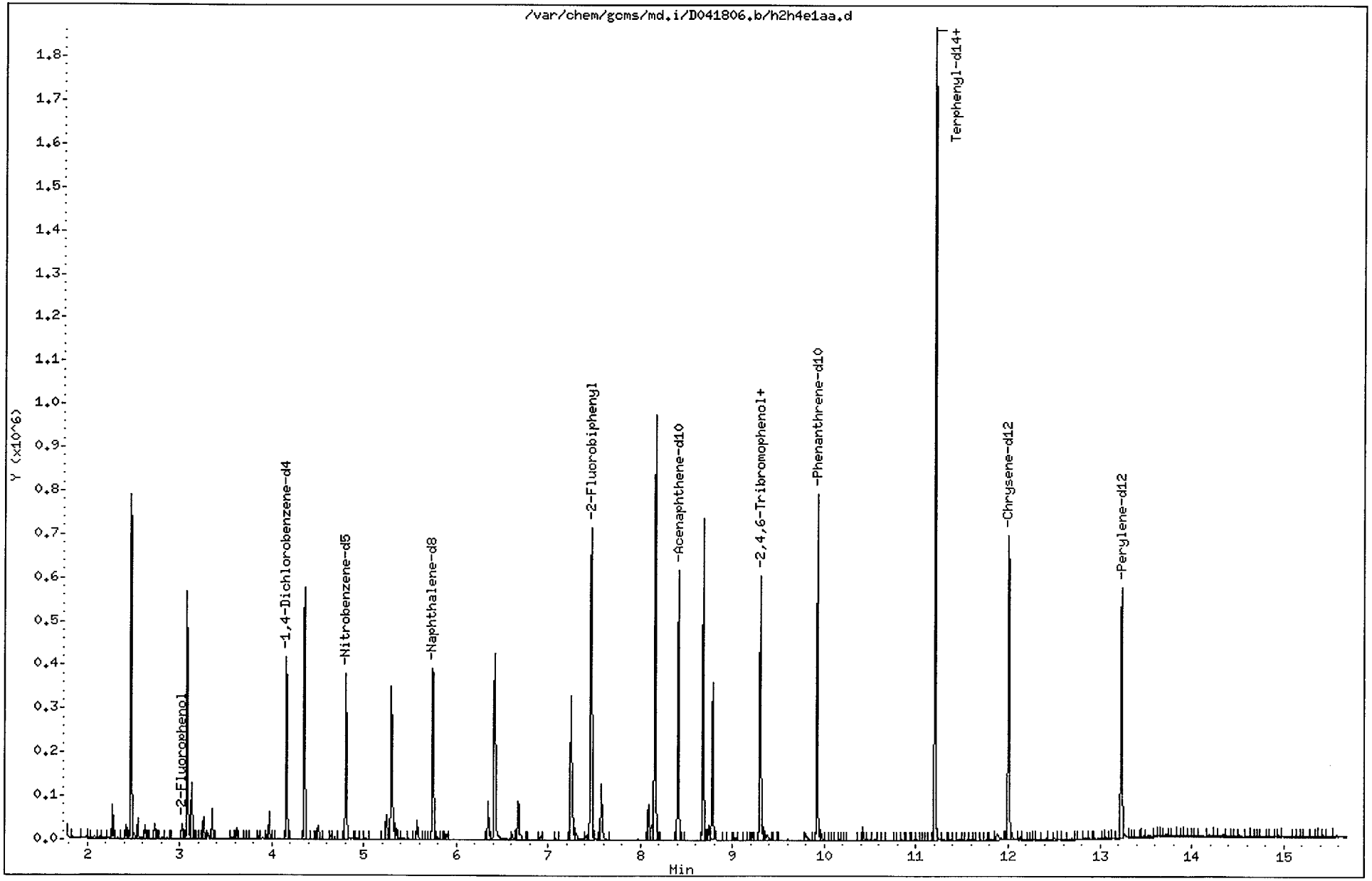
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H4E1AA
Client Smp ID: G-3004-R2-MAKE-UP W
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	79.8	2.39	2.99*	36-98
$ 8 Phenol-d5	79.8	0.00	*	49-109
$ 9 Nitrobenzene-d5	53.2	29.1	54.73*	57-120
$ 10 2-Fluorobiphenyl	53.2	34.7	65.31	56-118
$ 11 2,4,6-Tribromophen	79.8	45.5	57.06	55-134
$ 12 Terphenyl-d14	53.2	45.4	85.28	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Date : 18-APR-2006 21:34
Client ID: G-3004-R2-MAKE-UP W
Sample Info: H2H4E1AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

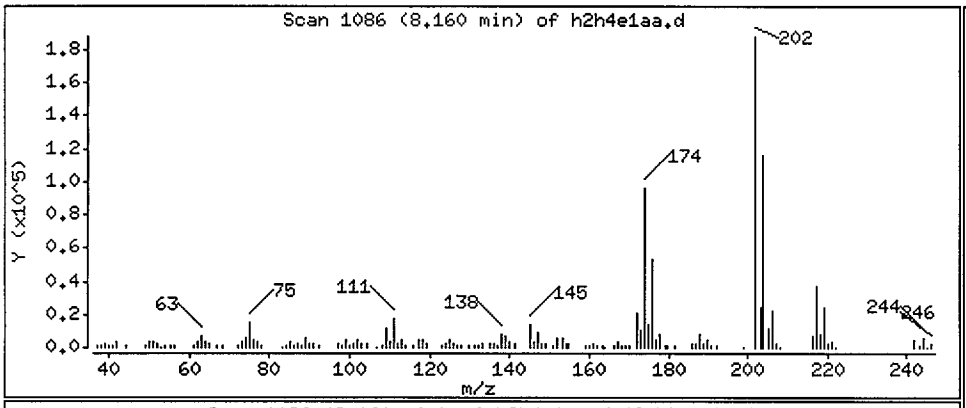
Operator: 60841

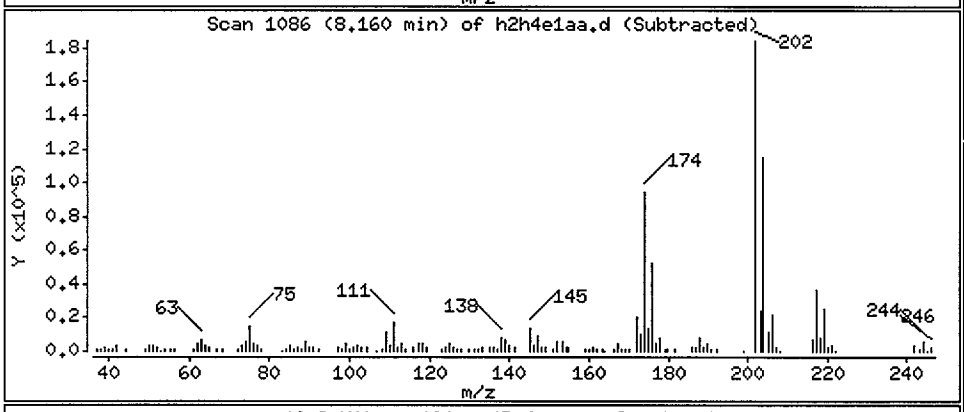
Column phase: ZB-5

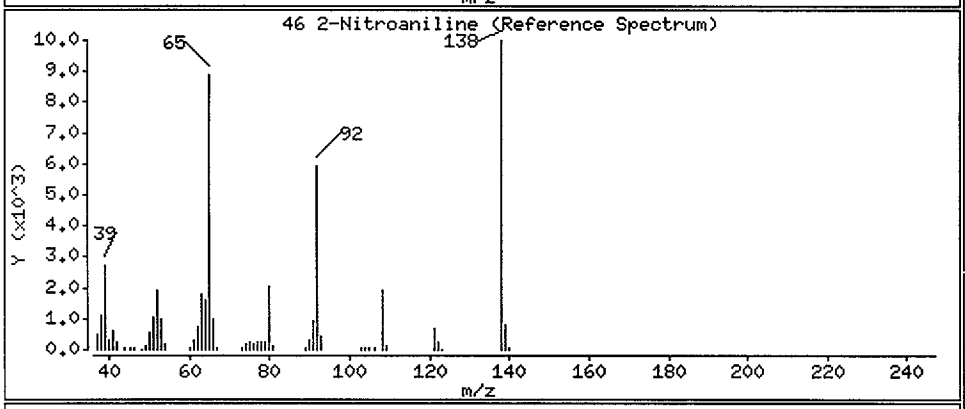
Column diameter: 0.25

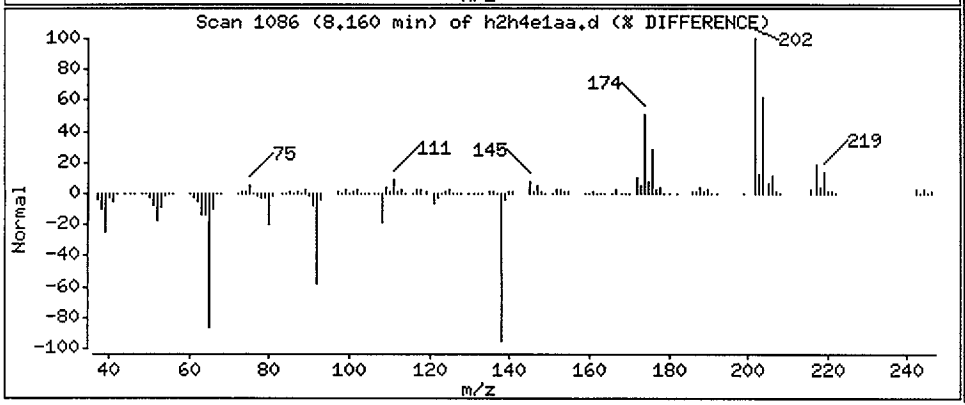
46 2-Nitroaniline

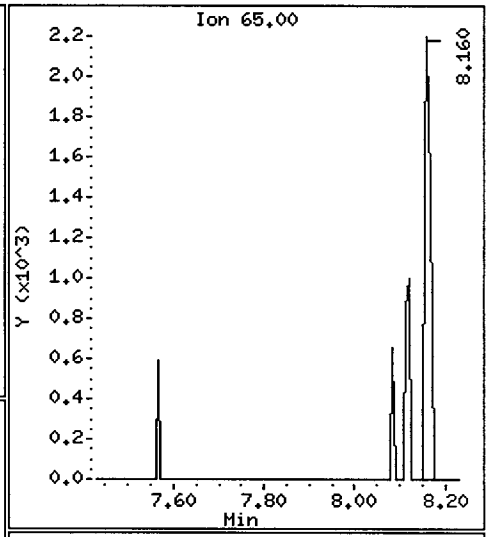
Concentration: 0.795 ug/L

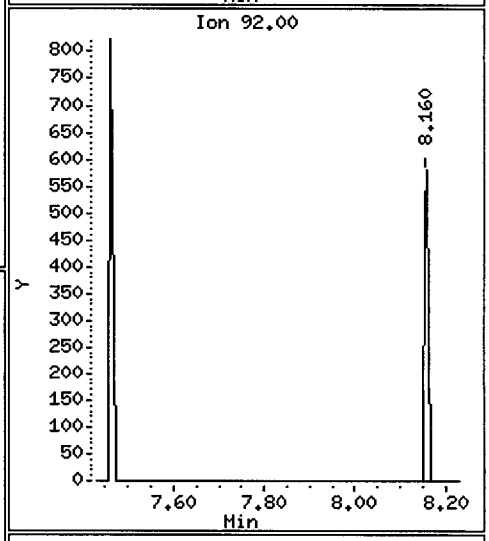


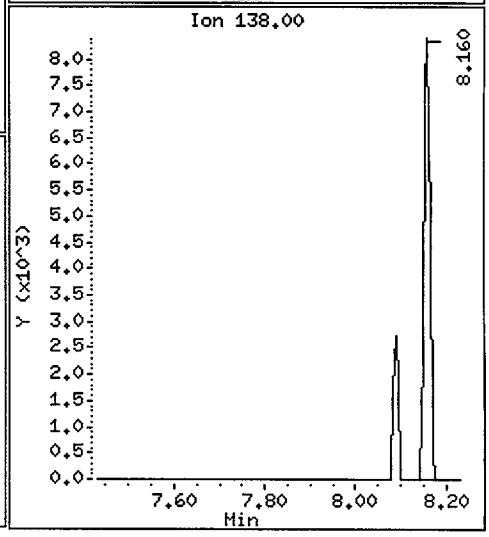












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

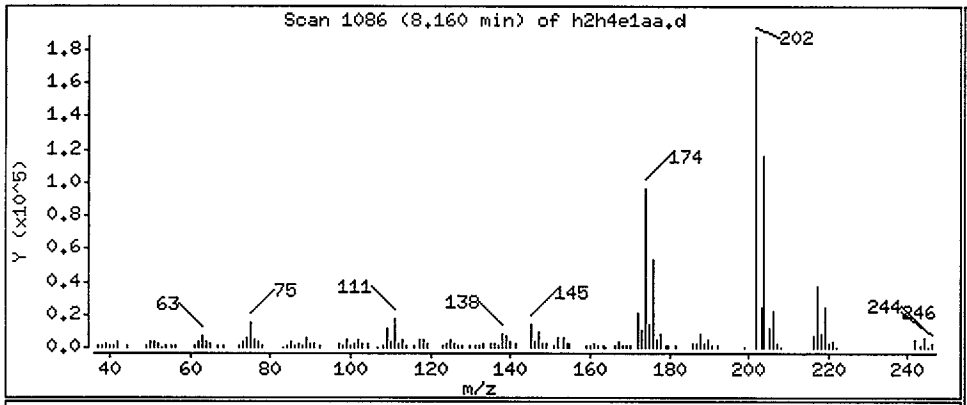
Operator: 60841

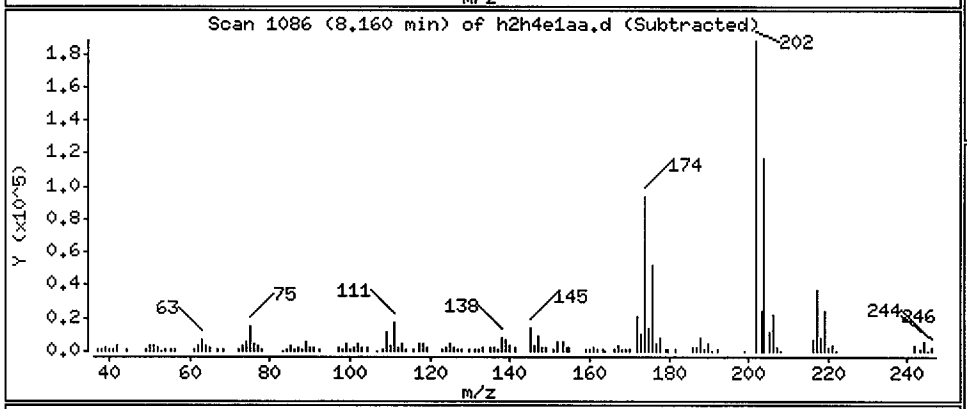
Column phase: ZB-5

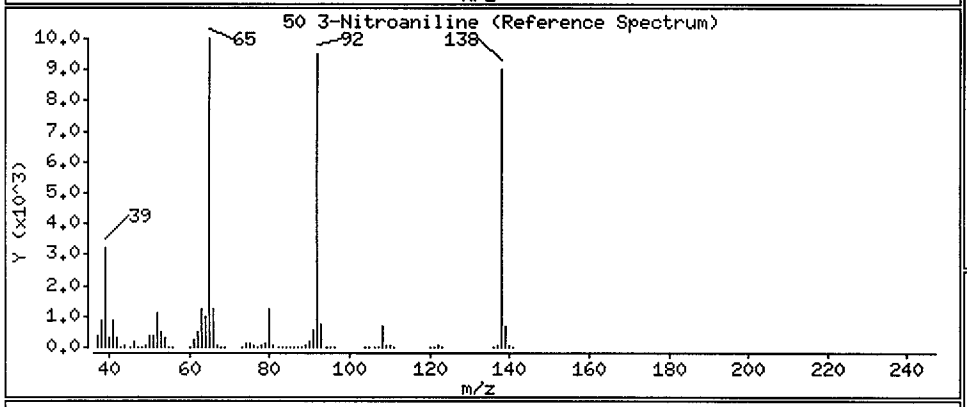
Column diameter: 0.25

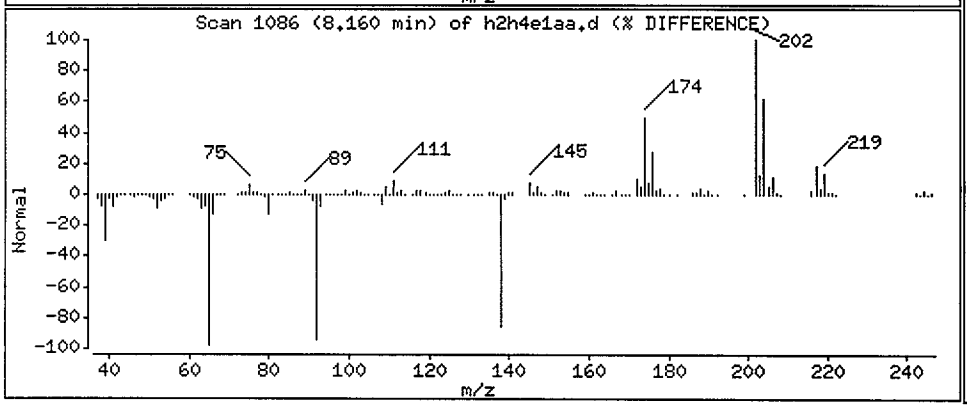
50 3-Nitroaniline

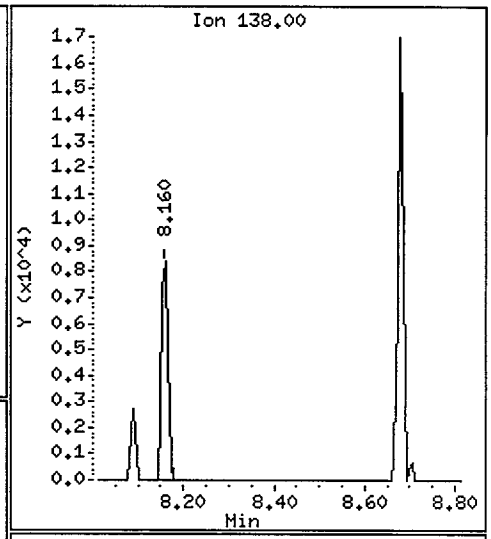
Concentration: 3.42 ug/L

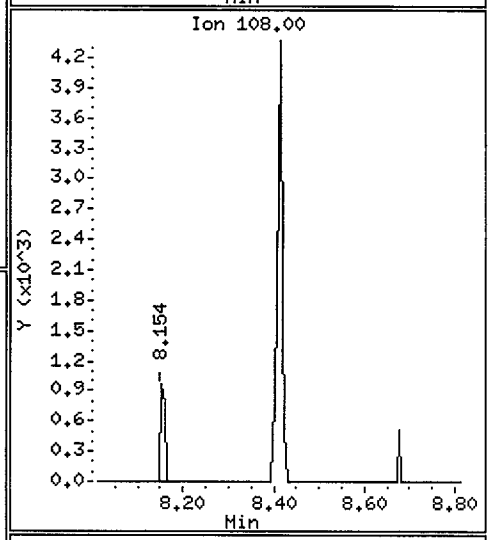


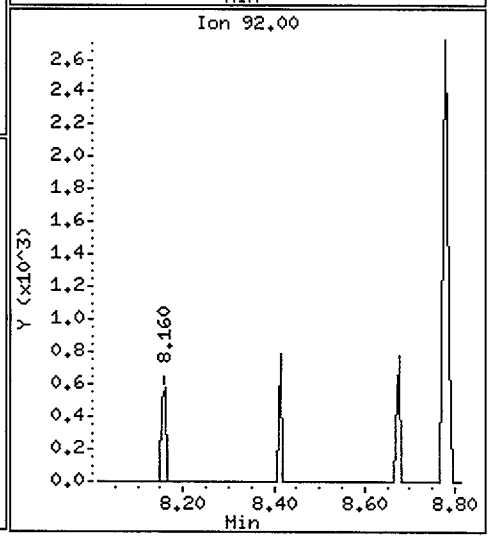












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

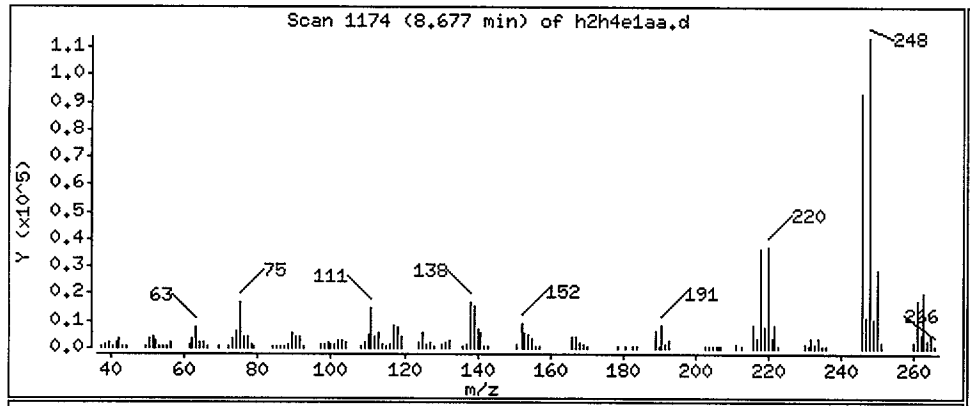
Operator: 60841

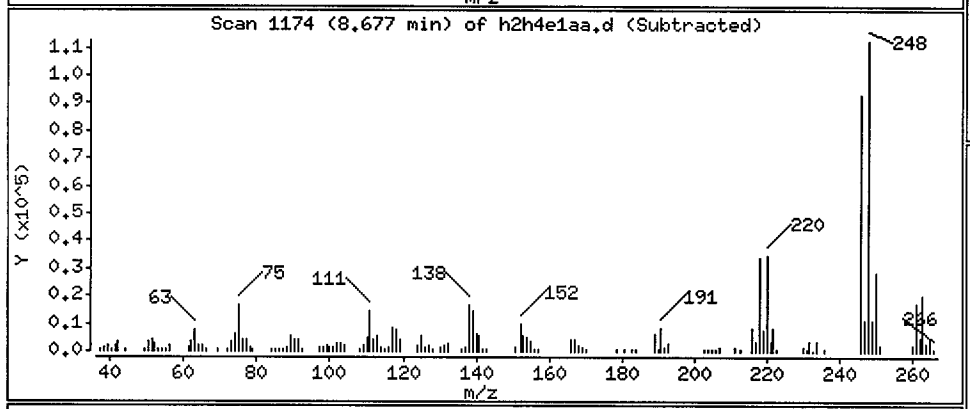
Column phase: ZB-5

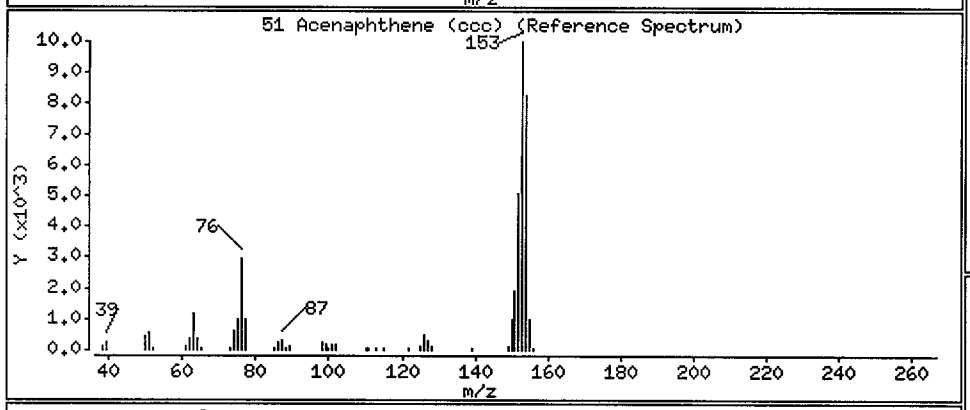
Column diameter: 0.25

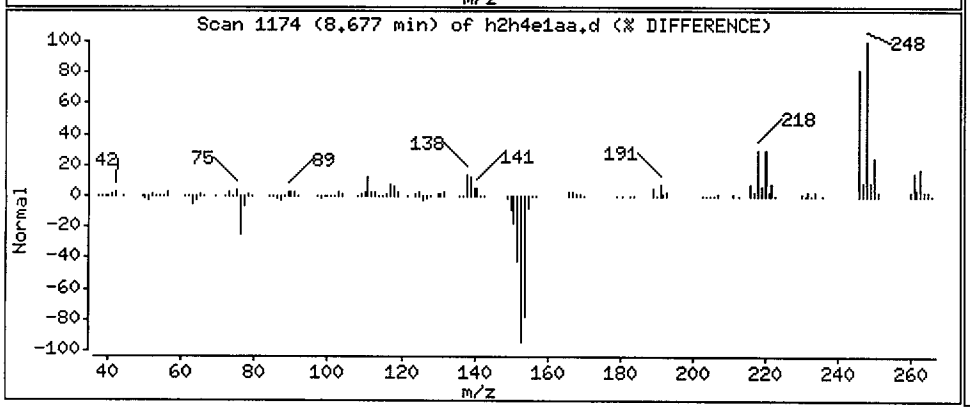
51 Acenaphthene (ccc)

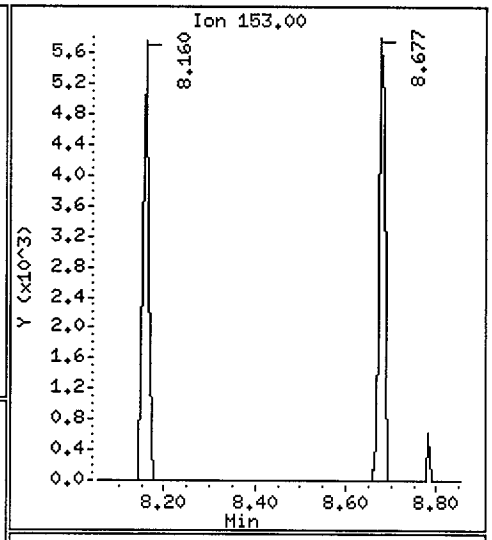
Concentration: 0.686 ug/L

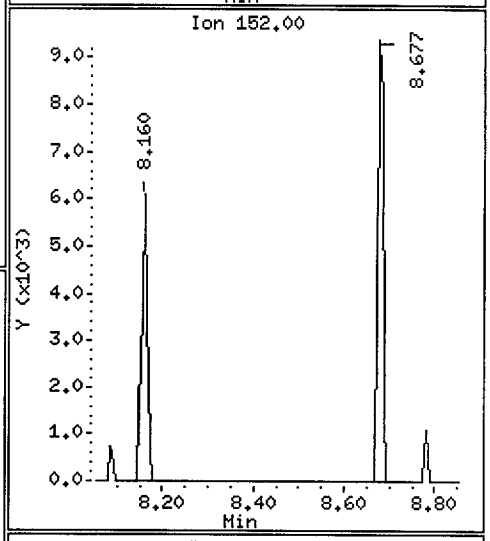


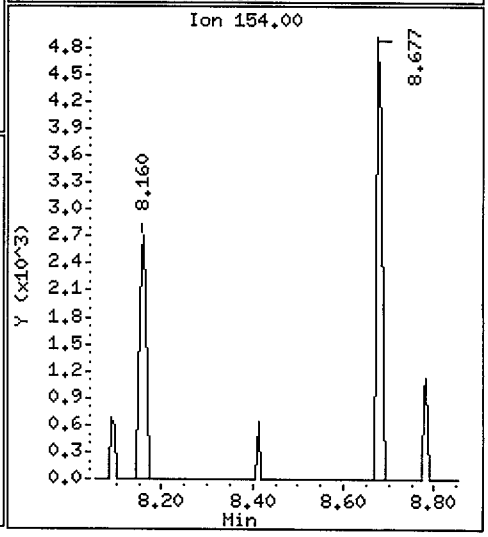












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

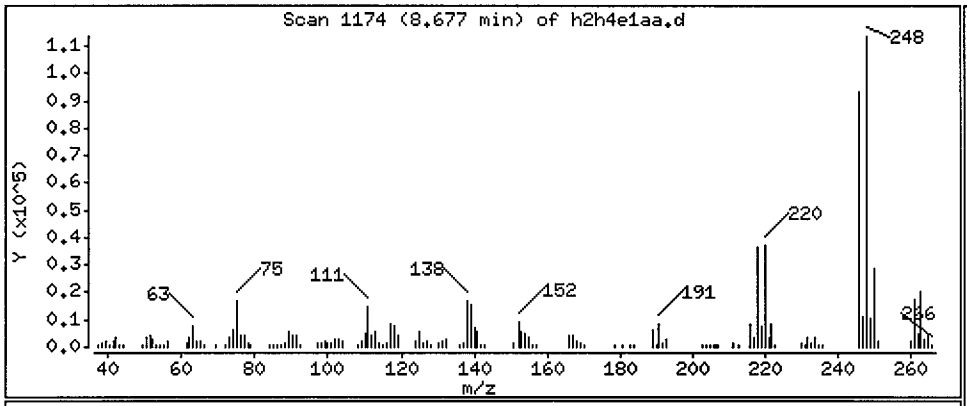
Operator: 60841

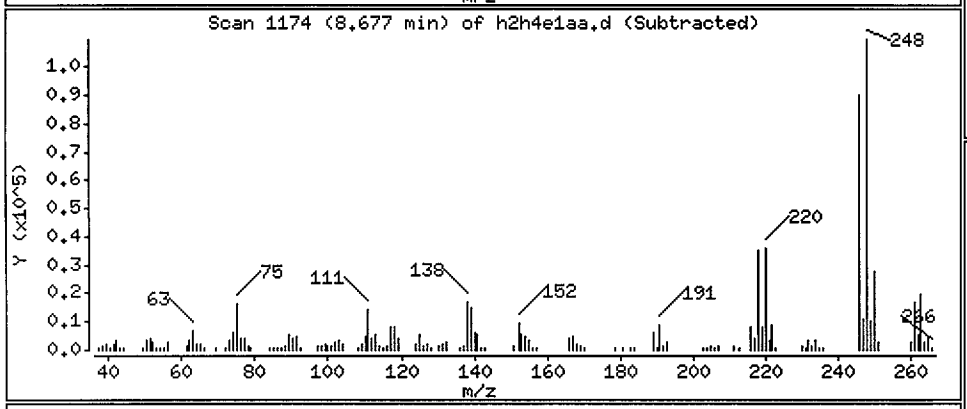
Column phase: ZB-5

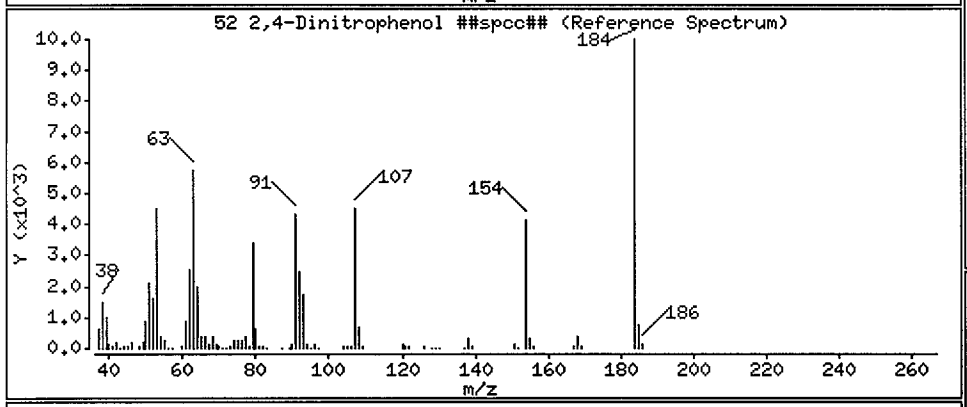
Column diameter: 0.25

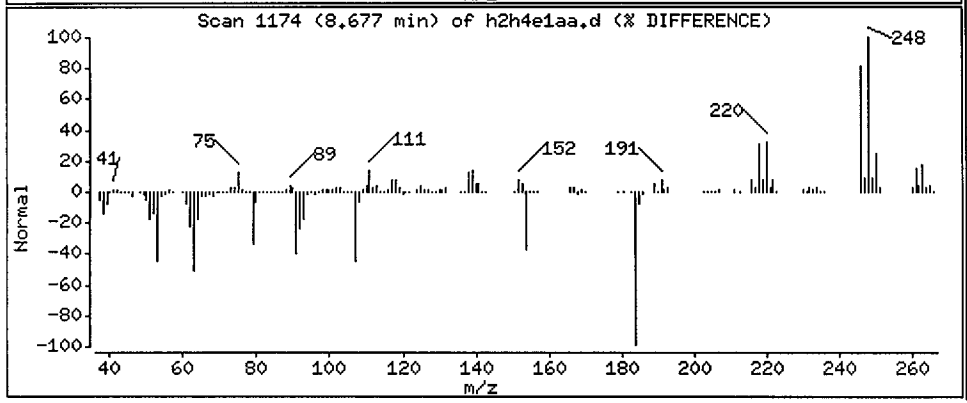
52 2,4-Dinitrophenol ##spcc##

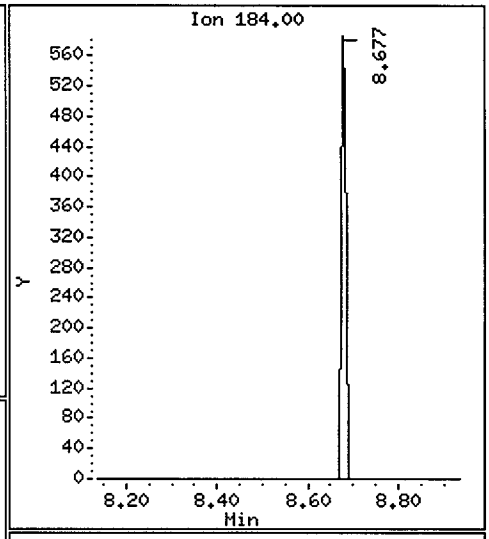
Concentration: 12.7 ug/L

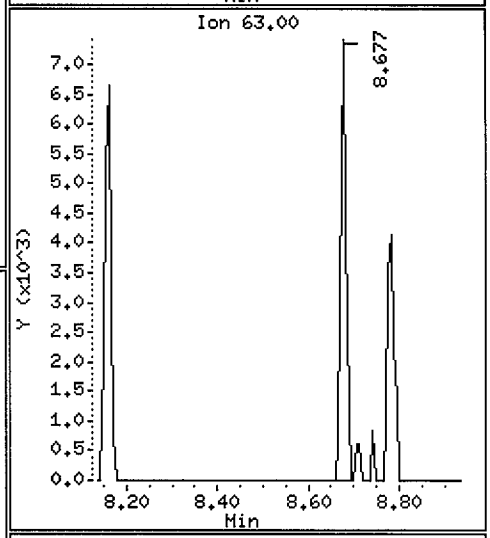


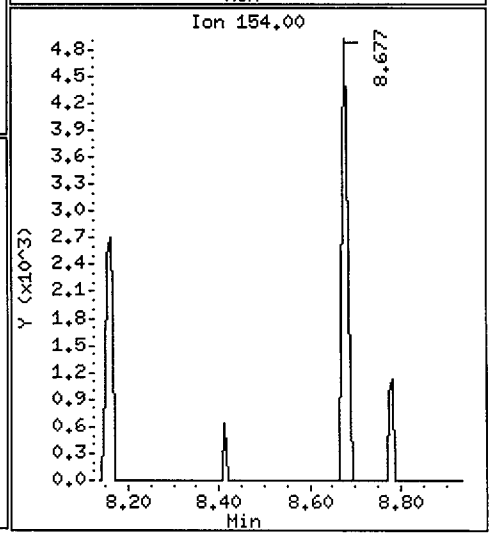












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

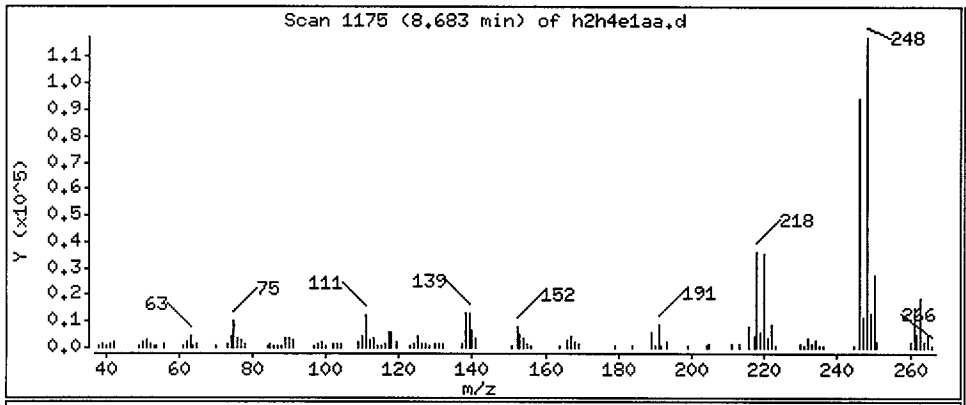
Operator: 60841

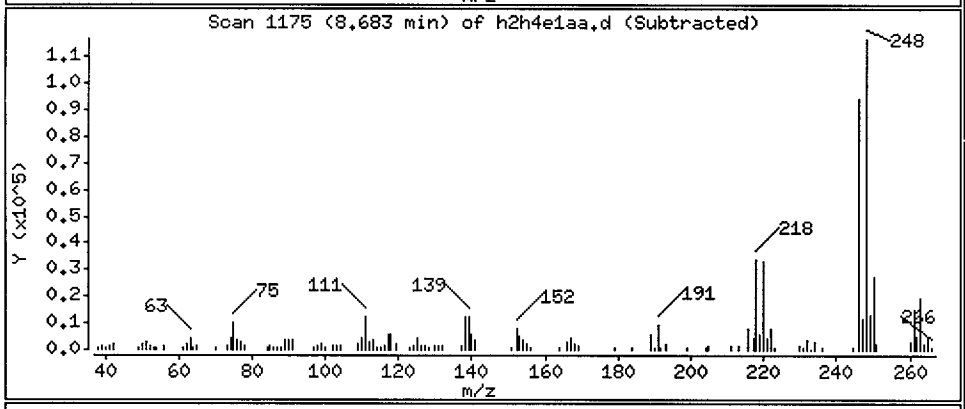
Column phase: ZB-5

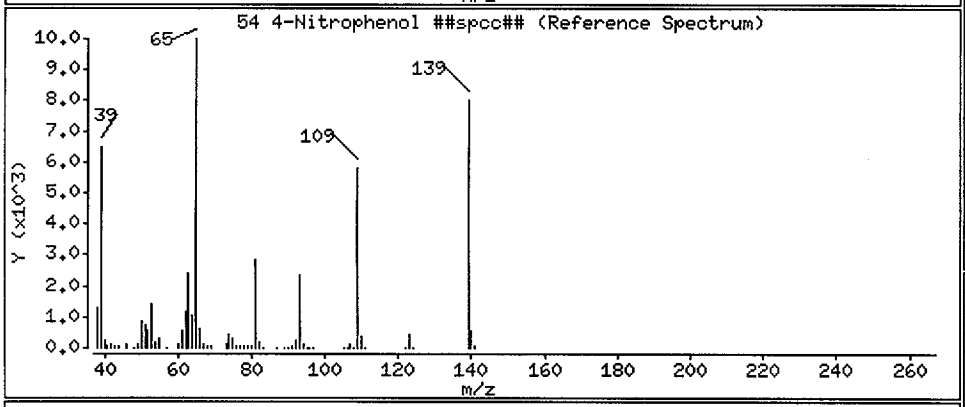
Column diameter: 0.25

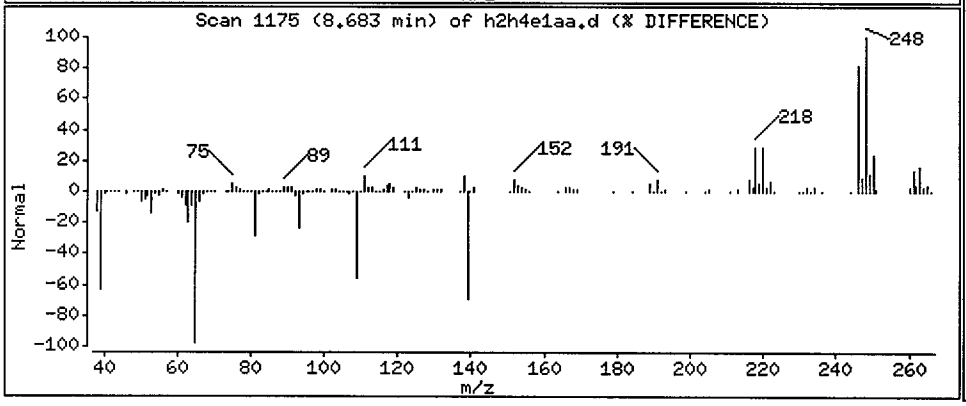
54 4-Nitrophenol ##spcc##

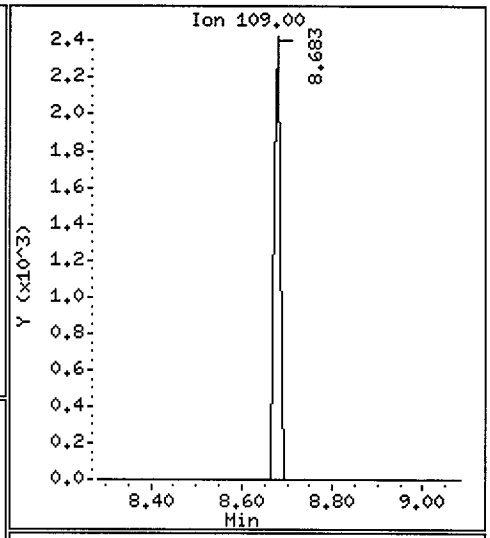
Concentration: 1.56 ug/L

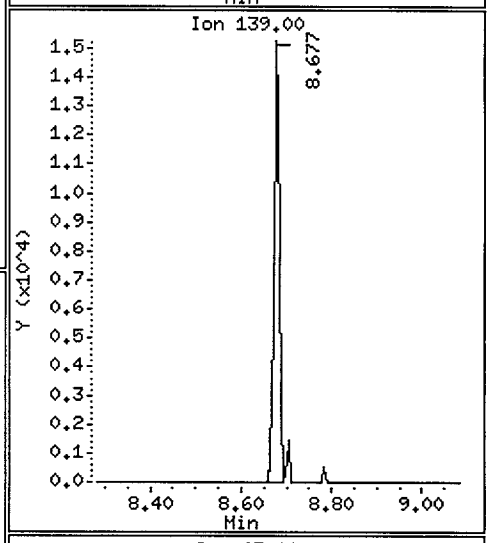


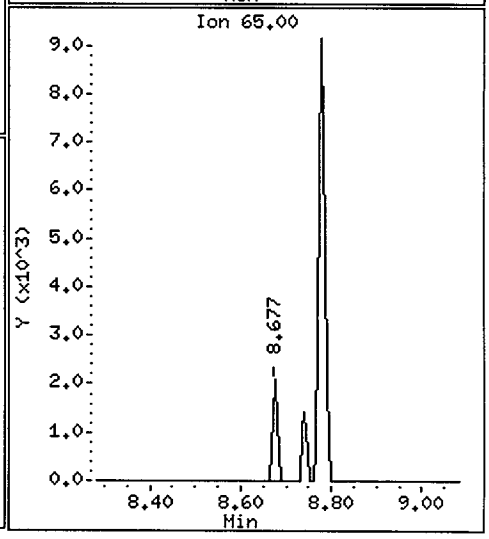












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

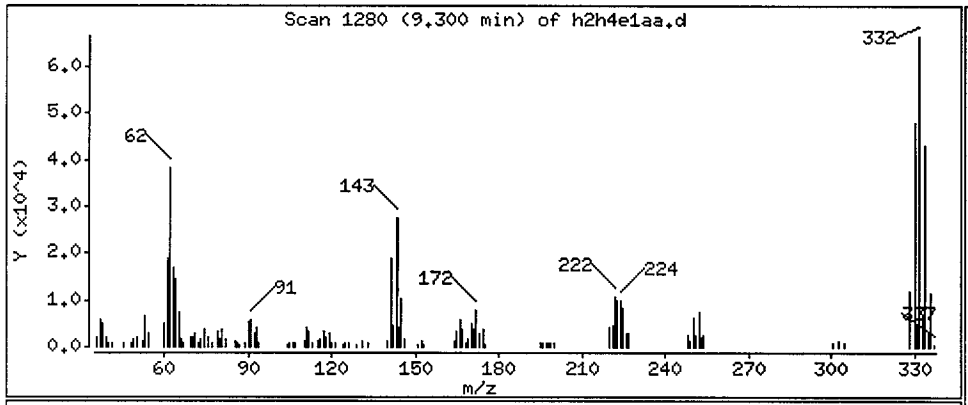
Operator: 60841

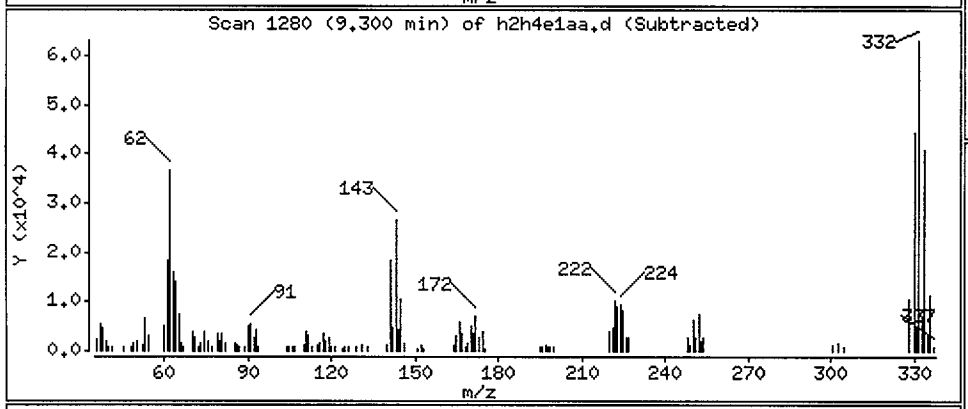
Column phase: ZB-5

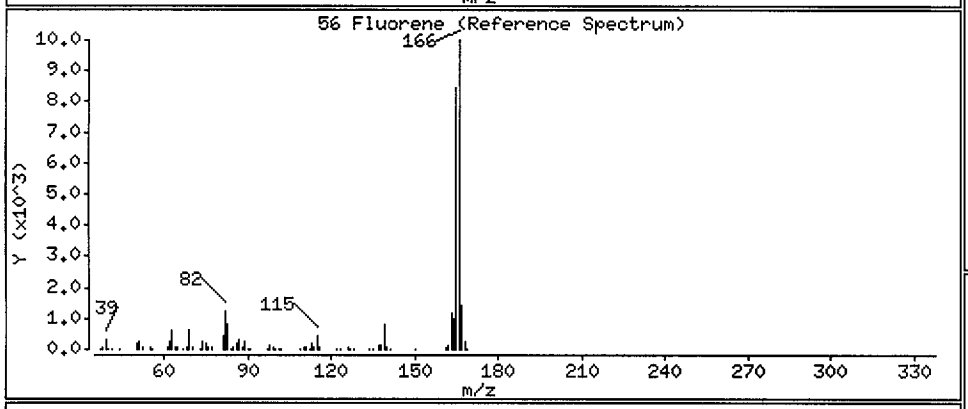
Column diameter: 0.25

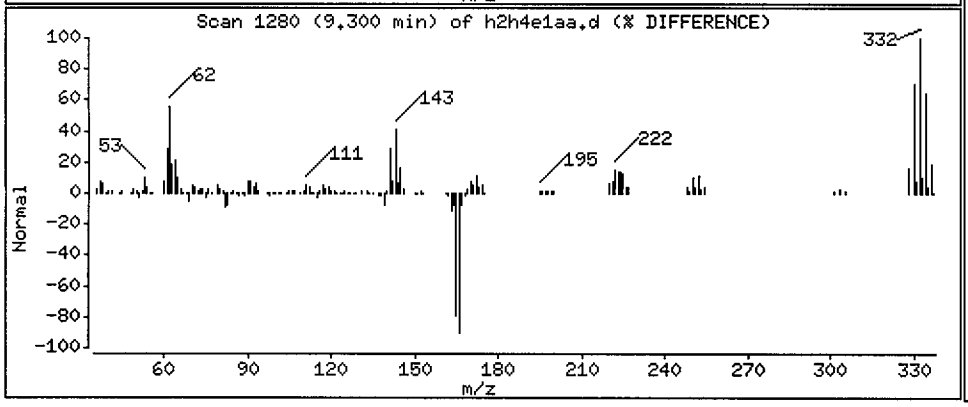
56 Fluorene

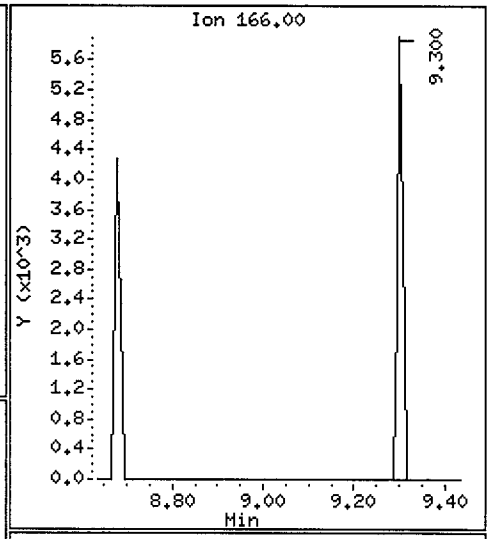
Concentration: 0.536 ug/L

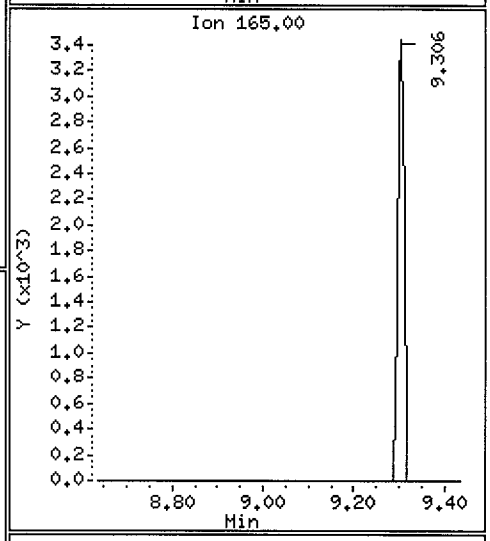


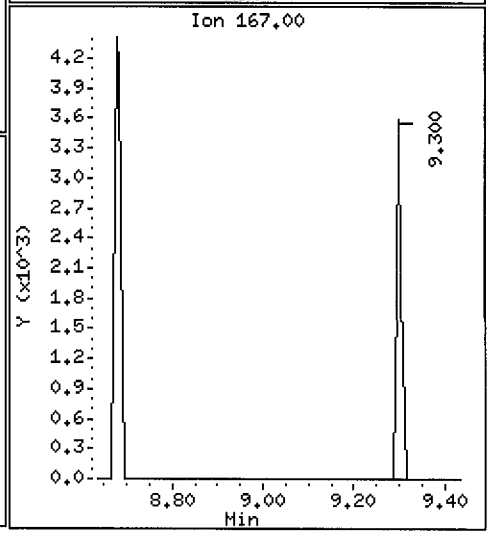












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

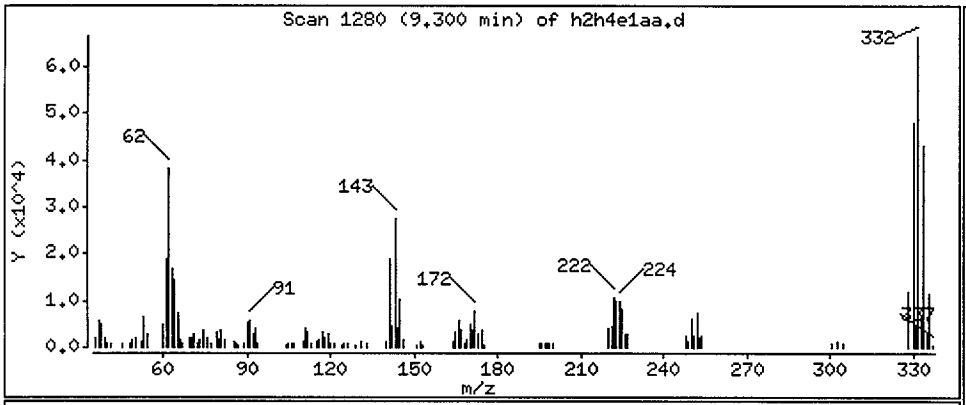
Operator: 60841

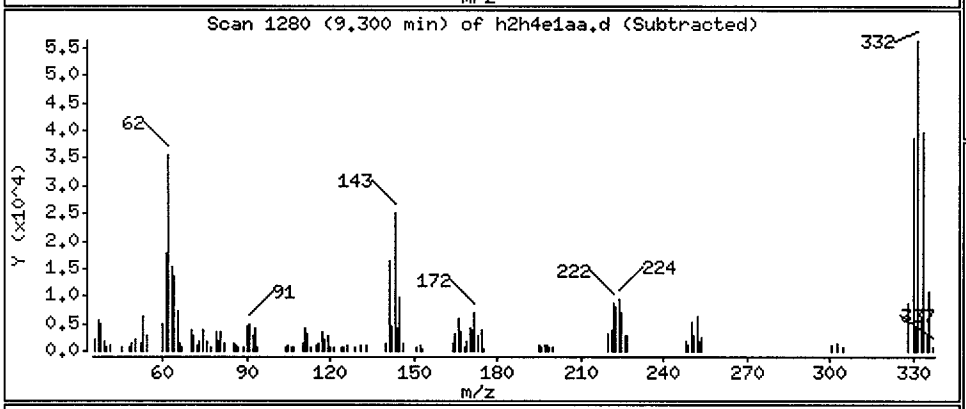
Column phase: ZB-5

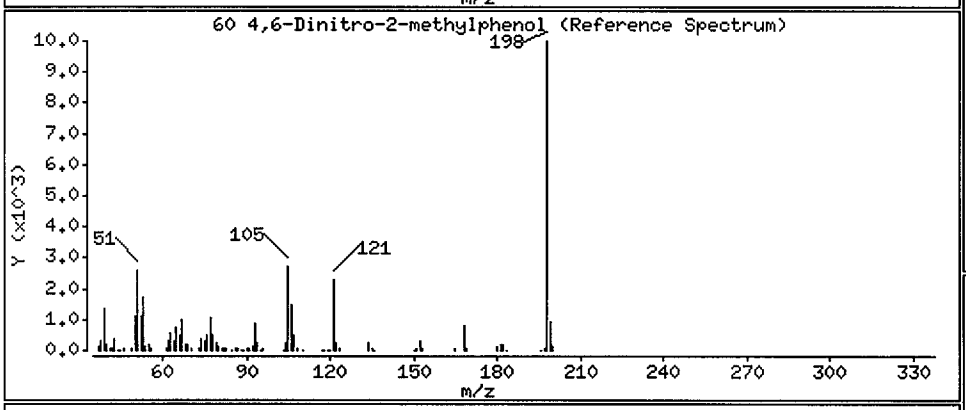
Column diameter: 0.25

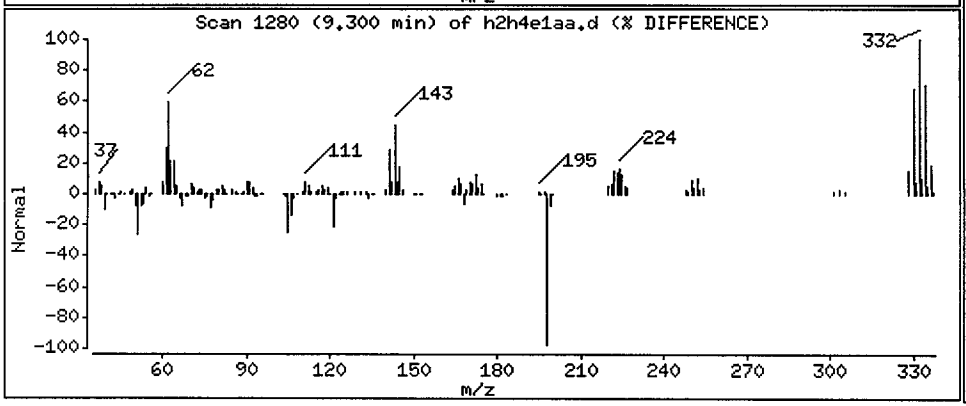
60 4,6-Dinitro-2-methylphenol

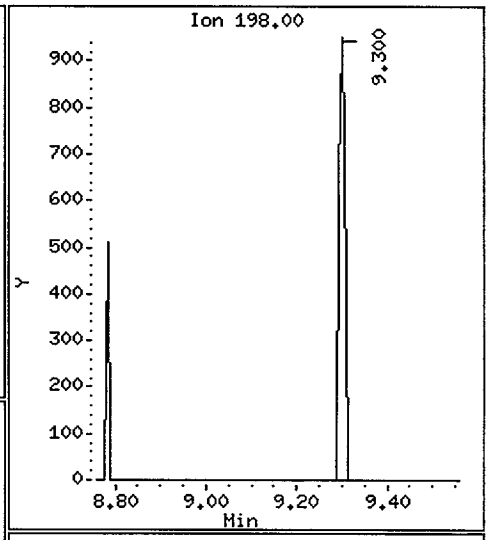
Concentration: 0.558 ug/L

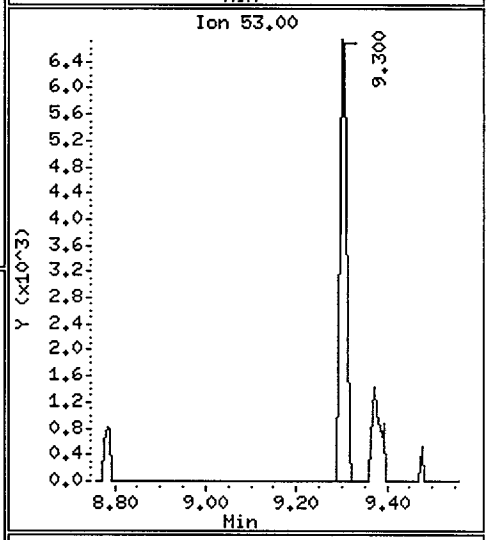


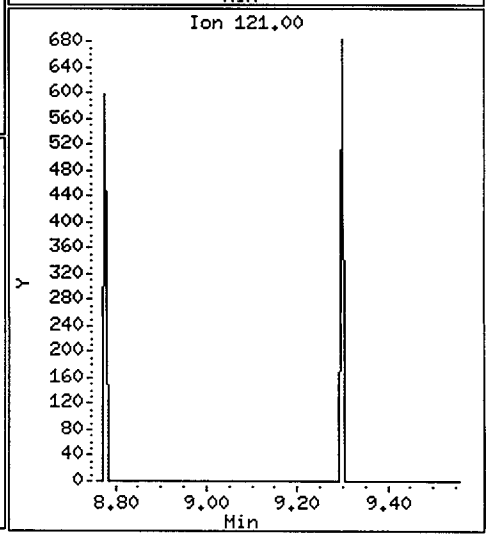












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

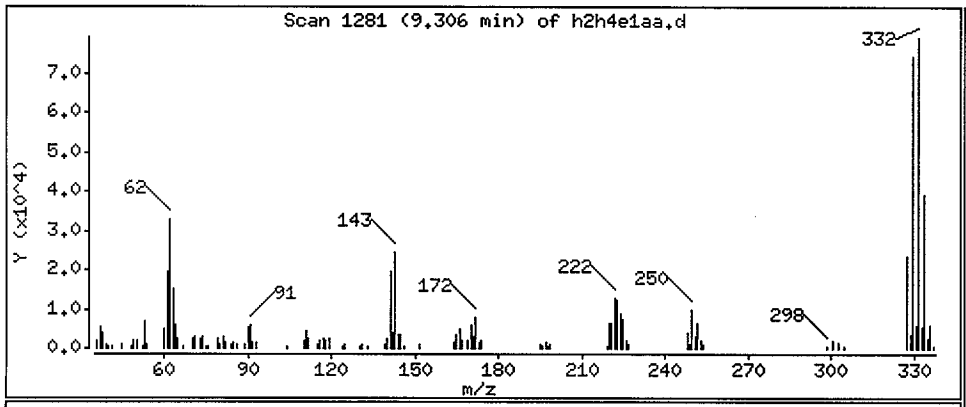
Operator: 60841

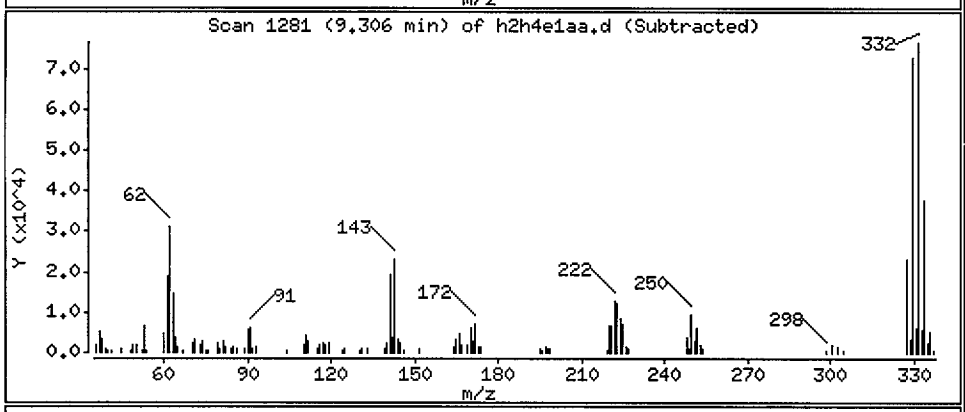
Column phase: ZB-5

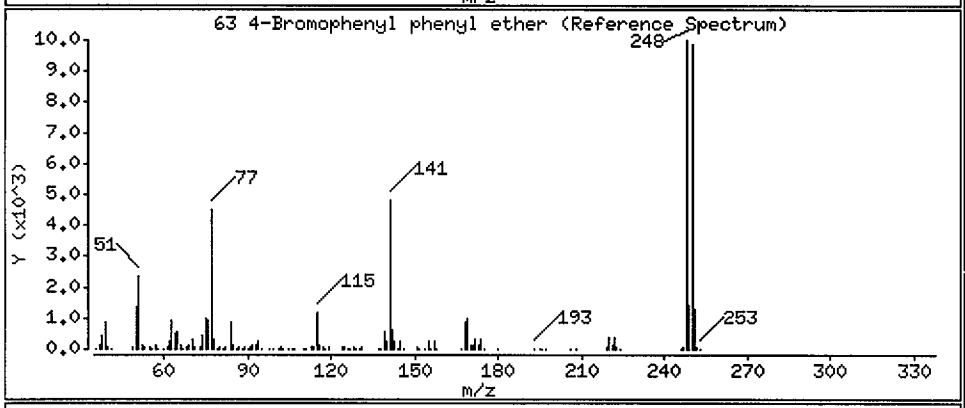
Column diameter: 0.25

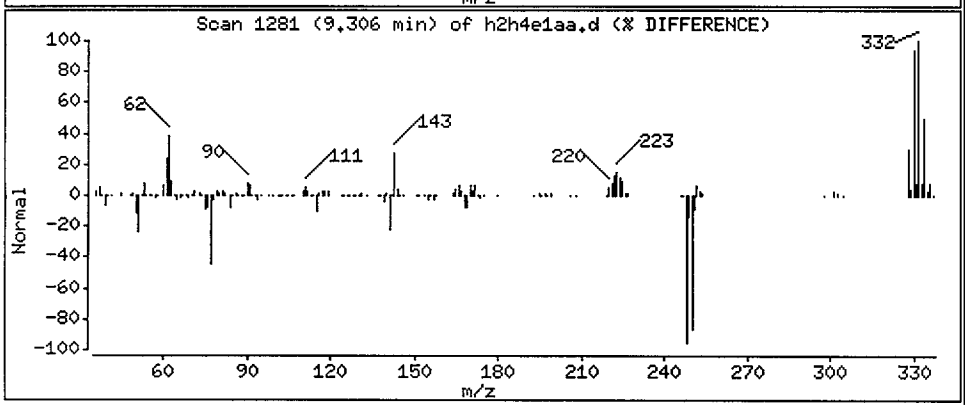
63 4-Bromophenyl phenyl ether

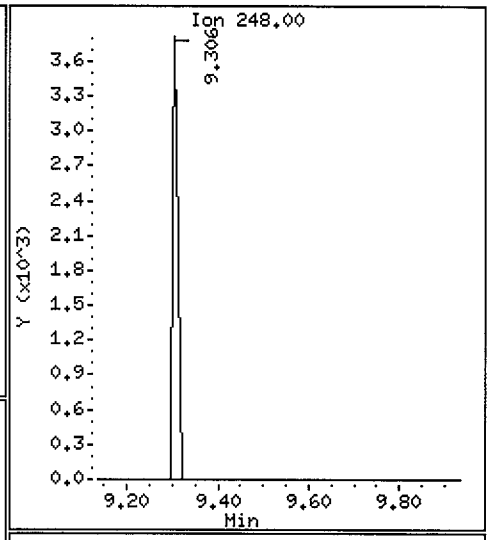
Concentration: 1.26 ug/L

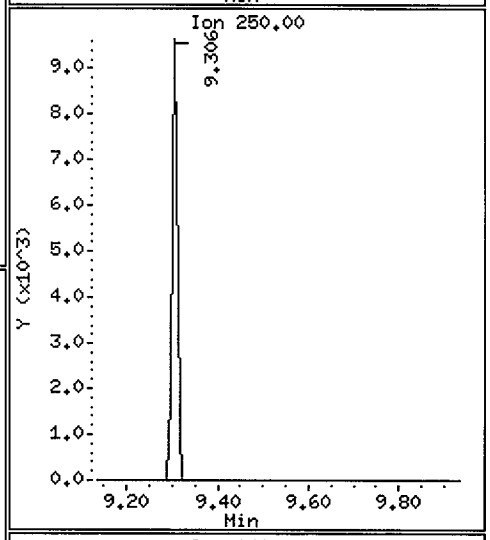


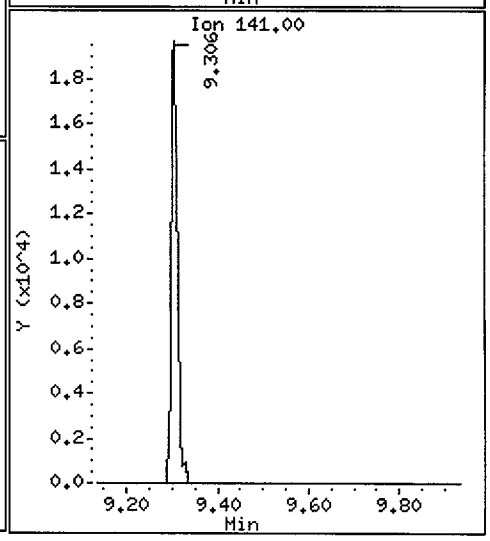












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

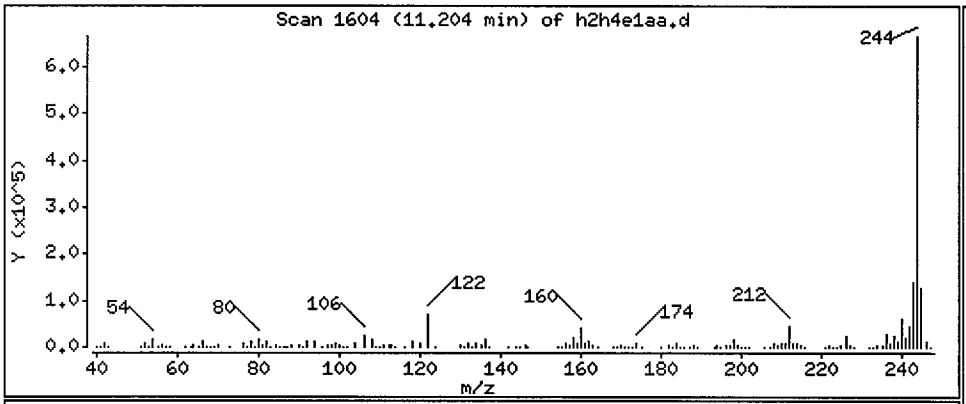
Operator: 60841

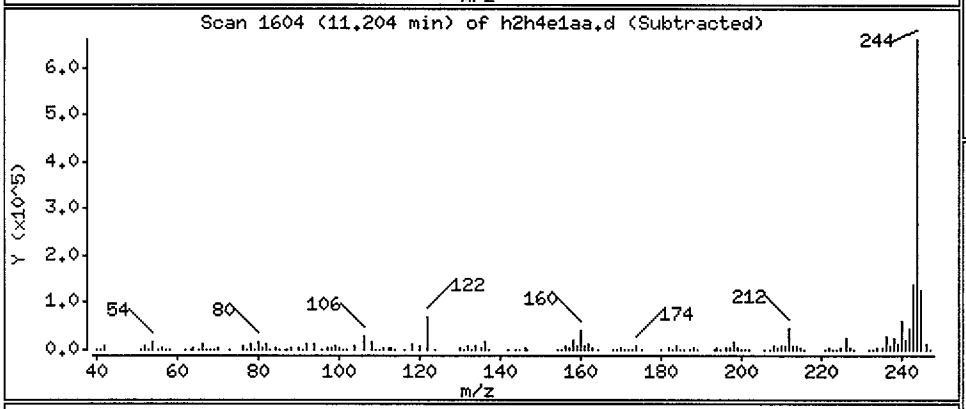
Column phase: ZB-5

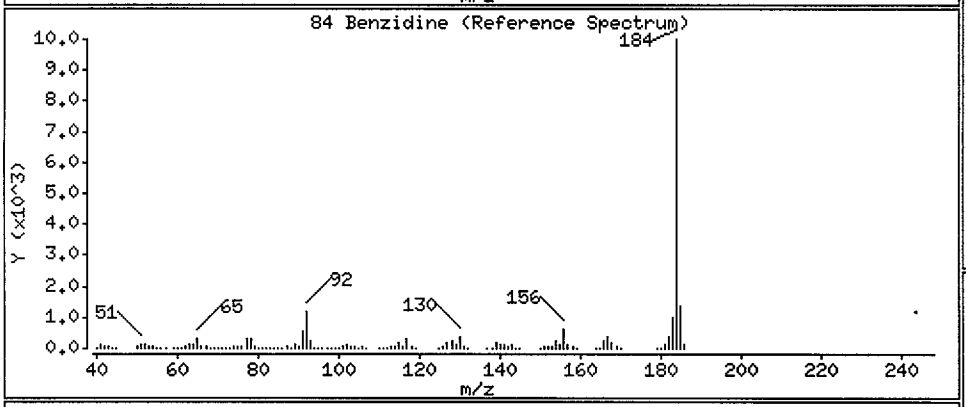
Column diameter: 0.25

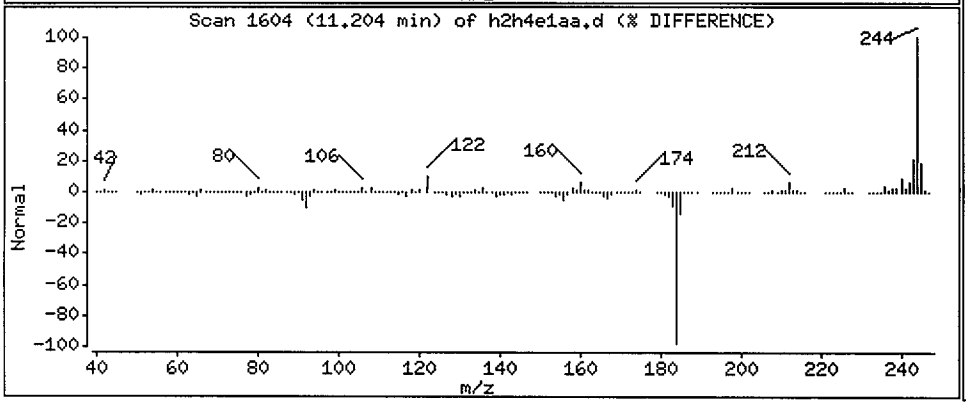
84 Benzidine

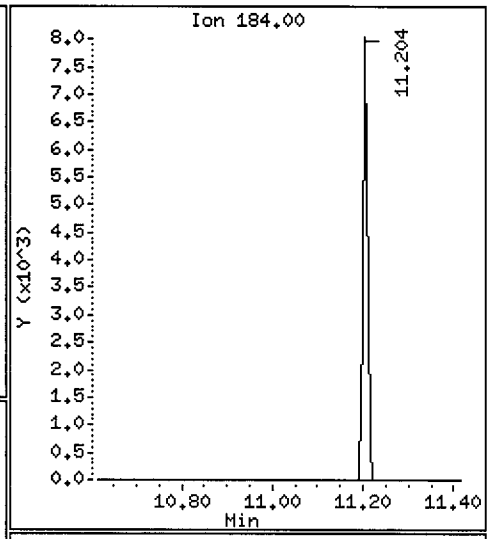
Concentration: 0.637 ug/L

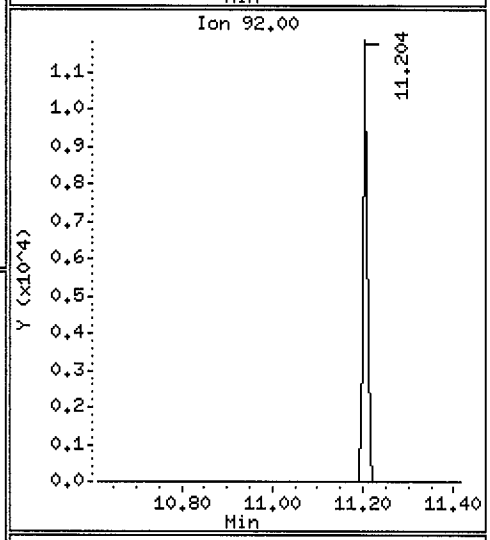


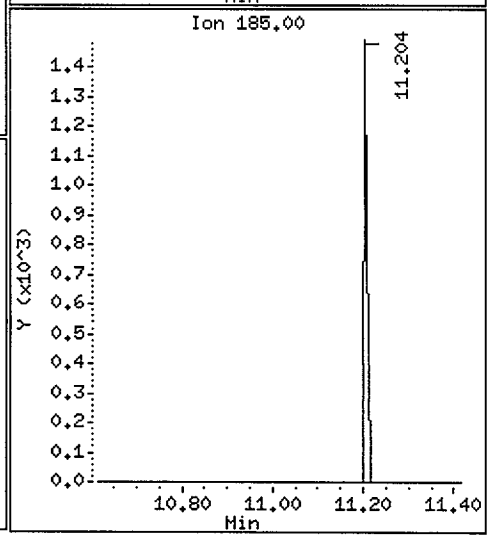












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

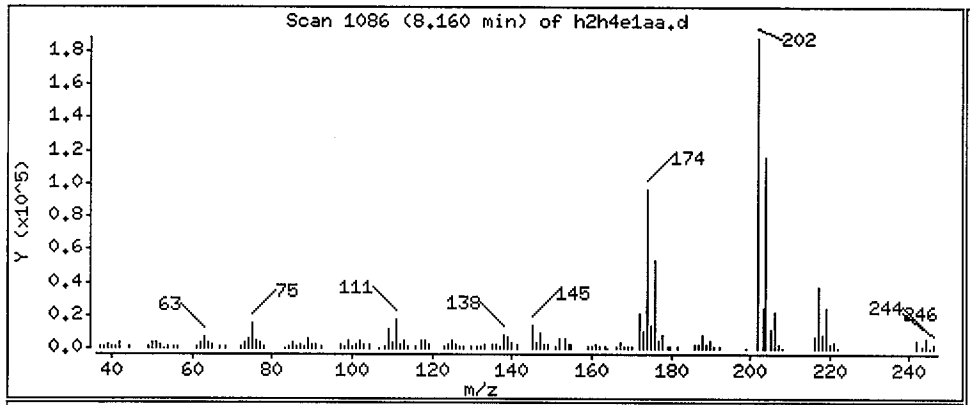
Operator: 60841

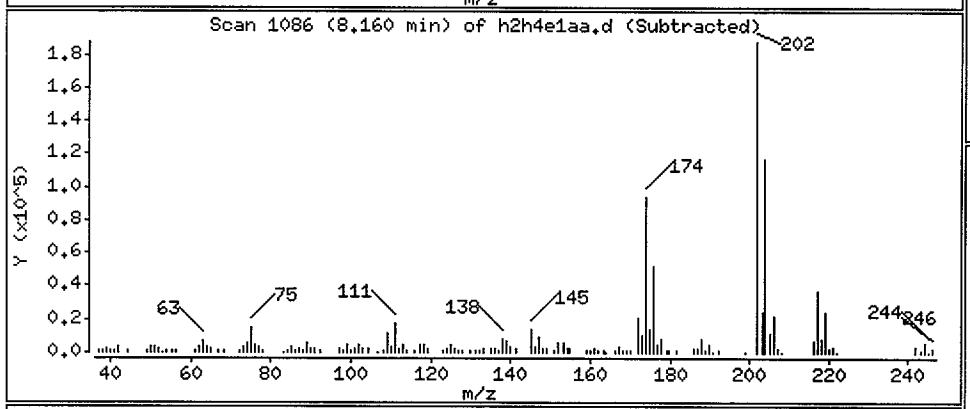
Column phase: ZB-5

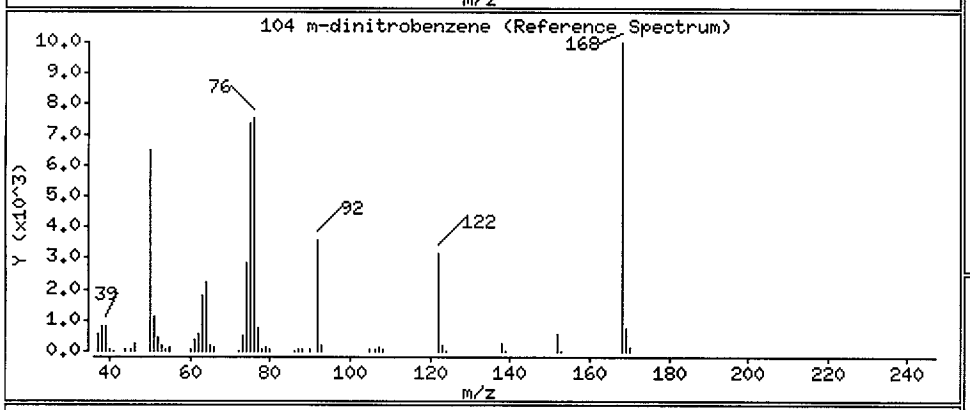
Column diameter: 0.25

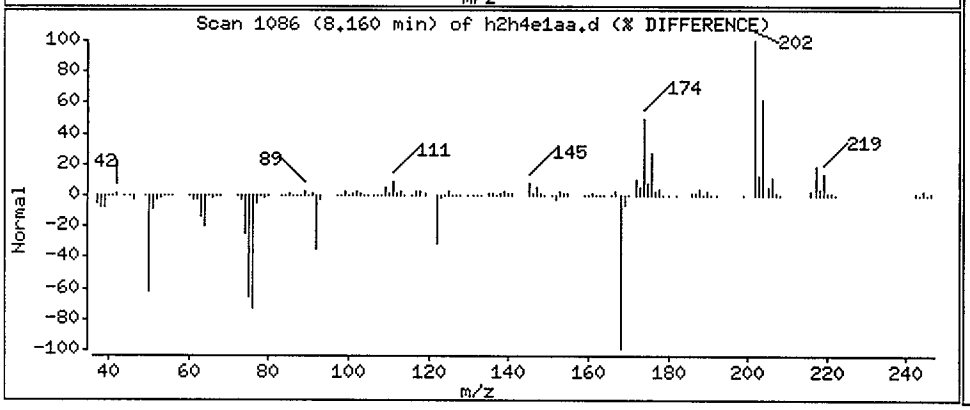
104 m-dinitrobenzene

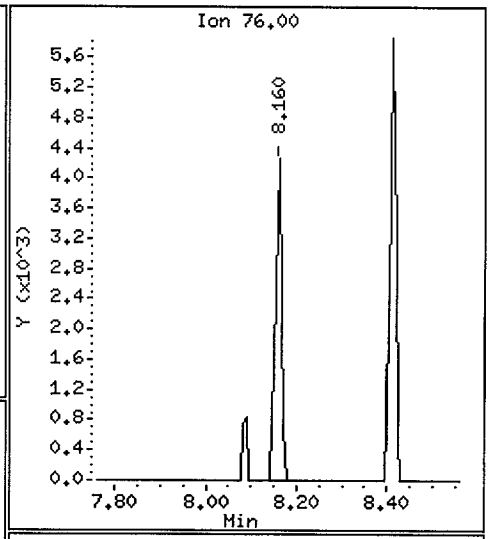
Concentration: 3.51 ug/L

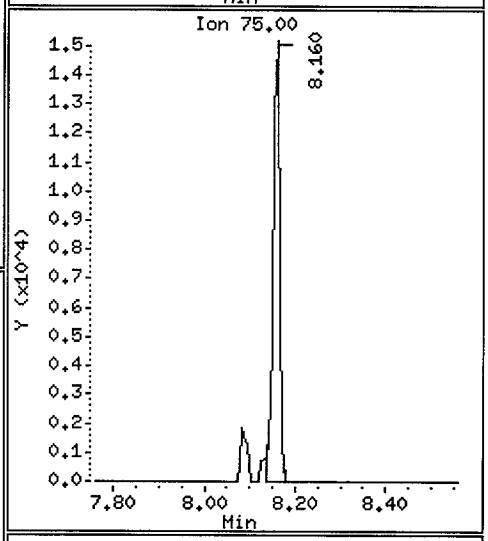


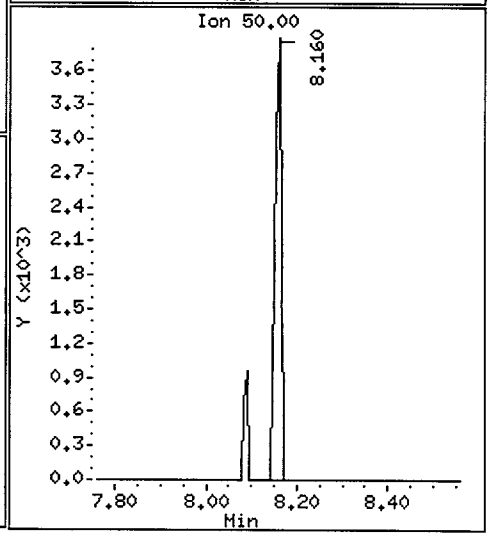












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0

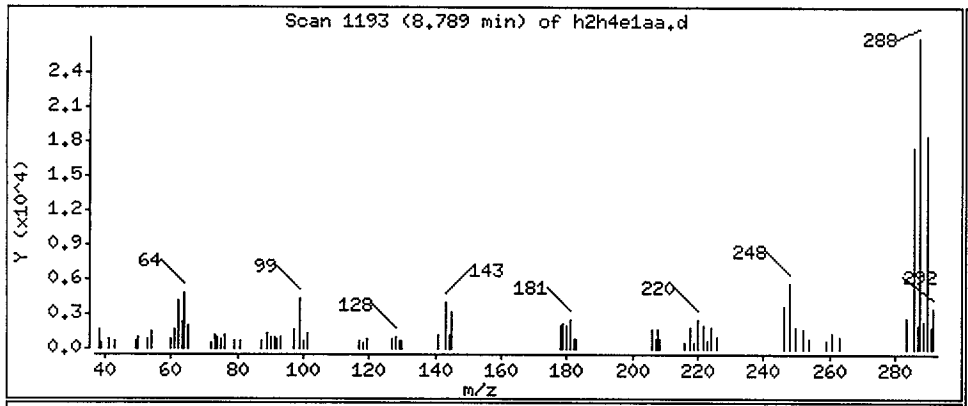
Operator: 60841

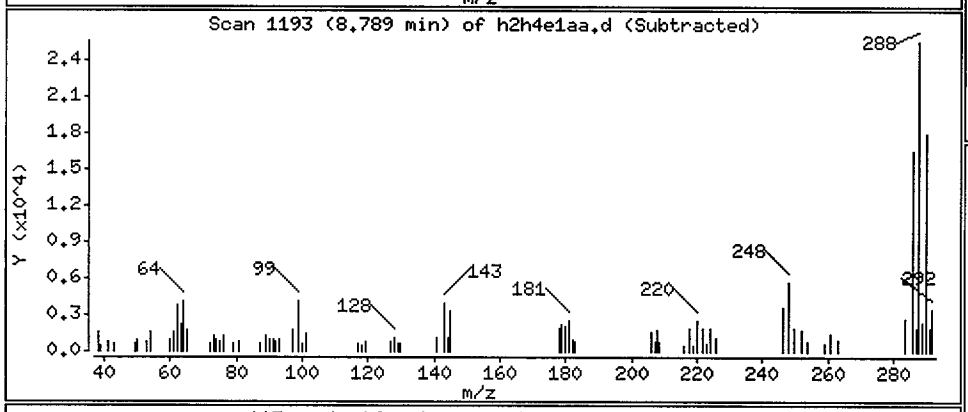
Column phase: ZB-5

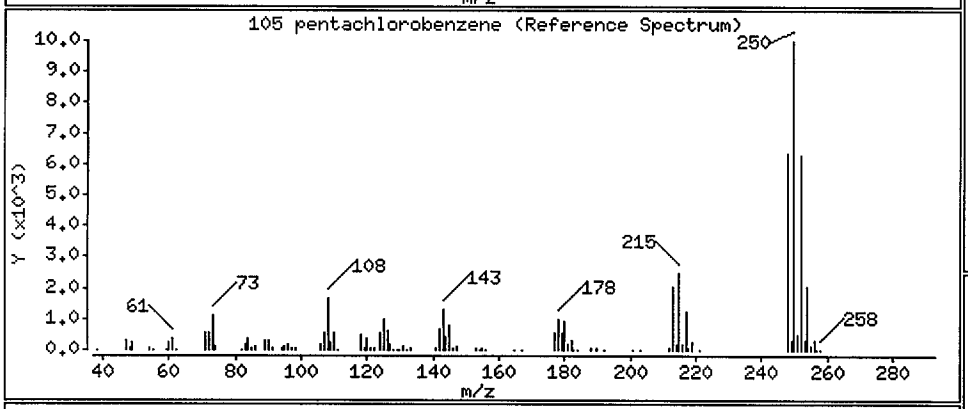
Column diameter: 0.25

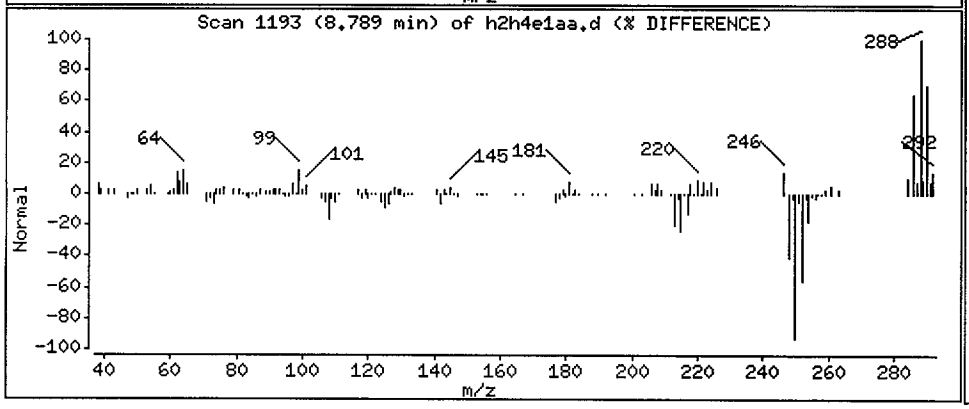
105 pentachlorobenzene

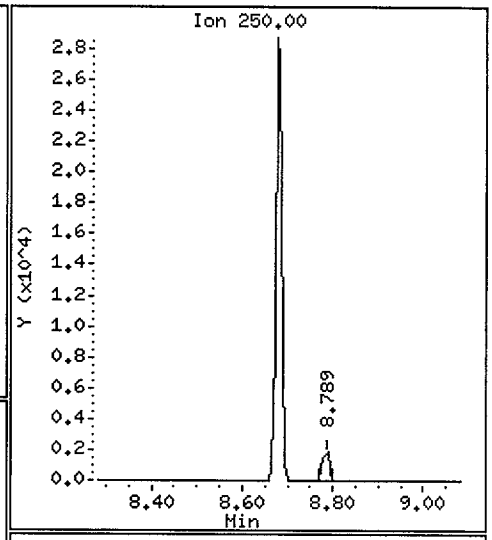
Concentration: 0.568 ug/L

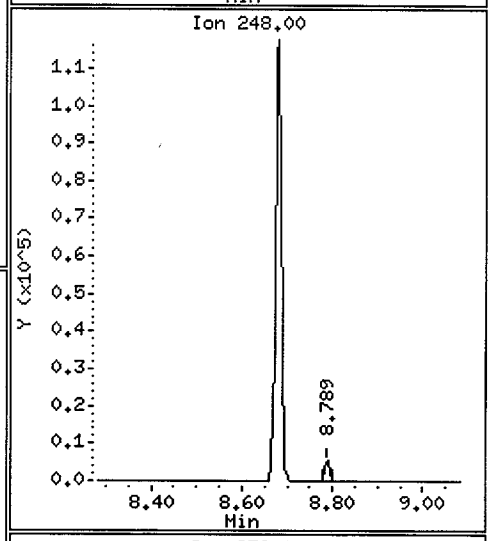


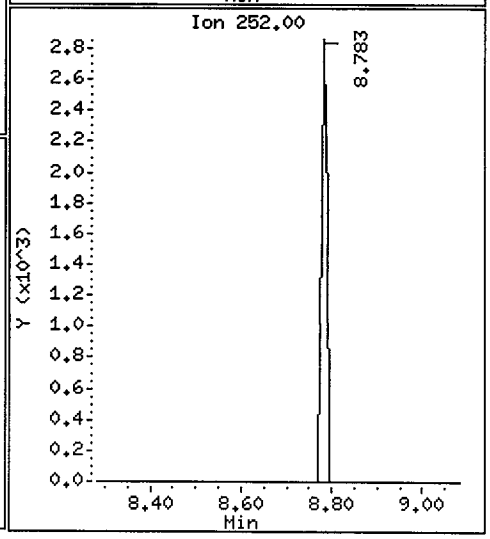












Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Report Date: 19-Apr-2006 15:50

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Lab Smp Id: H2H4E1AA Client Smp ID: G-3004-R2-MAKE-UP W
Inj Date : 18-APR-2006 21:34
Operator : 60841 Inst ID: md.i
Smp Info : H2H4E1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	940.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	417675	20.000
* 2 Naphthalene-d8	5.745	392430	20.000
* 3 Acenaphthene-d10	8.413	616575	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
4-Pentene-2-ol, 2-methyl					CAS #: 624-97-5		
2.472	789305	37.7951757	40.2	45	NIST05.1	3812	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d
Report Date: 19-Apr-2006 15:50

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Butanamide					CAS #: 541-35-5		
3.078	567640	27.1809421	28.9	56	NIST05.1	1835	1
Methane, tribromo-					CAS #: 75-25-2		
3.131	127727	6.11609505	6.51	97	NIST05.1	92333	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	575732	27.5684204	29.3	97	NIST05.1	23150	1
Nitroxoline					CAS #: 4008-48-4		
5.299	352507	17.9653441	19.1	22	NIST05.1	50367	2
4-Pentenoic acid, 5-(4-bromophenyl)-2,2-					CAS #: 302941-31-7		
6.344	86261	4.39624901	4.68	12	NIST05.1	153388	2
N-[4-(2-Hydroxyethylthio)phenyl]acetamid					CAS #: 40179-29-1		
6.415	427472	21.7858981	23.2	10	NIST05.1	64856	2
2-Methyl-3-phenyl-pyrrolo(2,3-b)pyrazine					CAS #: 56015-25-9		
6.673	89228	4.54746069	4.84	16	NIST05.1	63652	2
3-Methoxybenzylamine, N-ethyl-N-(3-methy					CAS #: 1000310-33-1		
7.249	328096	10.6425333	11.3	12	NIST05.1	95494	3
2,6-Dibromo-4-fluorophenol					CAS #: 344-20-7		
7.572	129496	4.20049467	4.47	78	NIST05.1	104342	3
(3,5-Dichlorophenyl)diethylamine					CAS #: 1000306-63-5		
8.160	976369	31.6707294	33.7	93	NIST05.1	68900	3
5-Amino-4,6,8-trichloroquinoline					CAS #: 1000252-19-9		
8.677	736093	23.8768357	25.4	59	NIST05.1	89583	3
Acridine, 4-phenyl-5-chloro-					CAS #: 1000162-88-5		
8.783	358653	11.6337185	12.4	12	NIST05.1	117885	3

Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

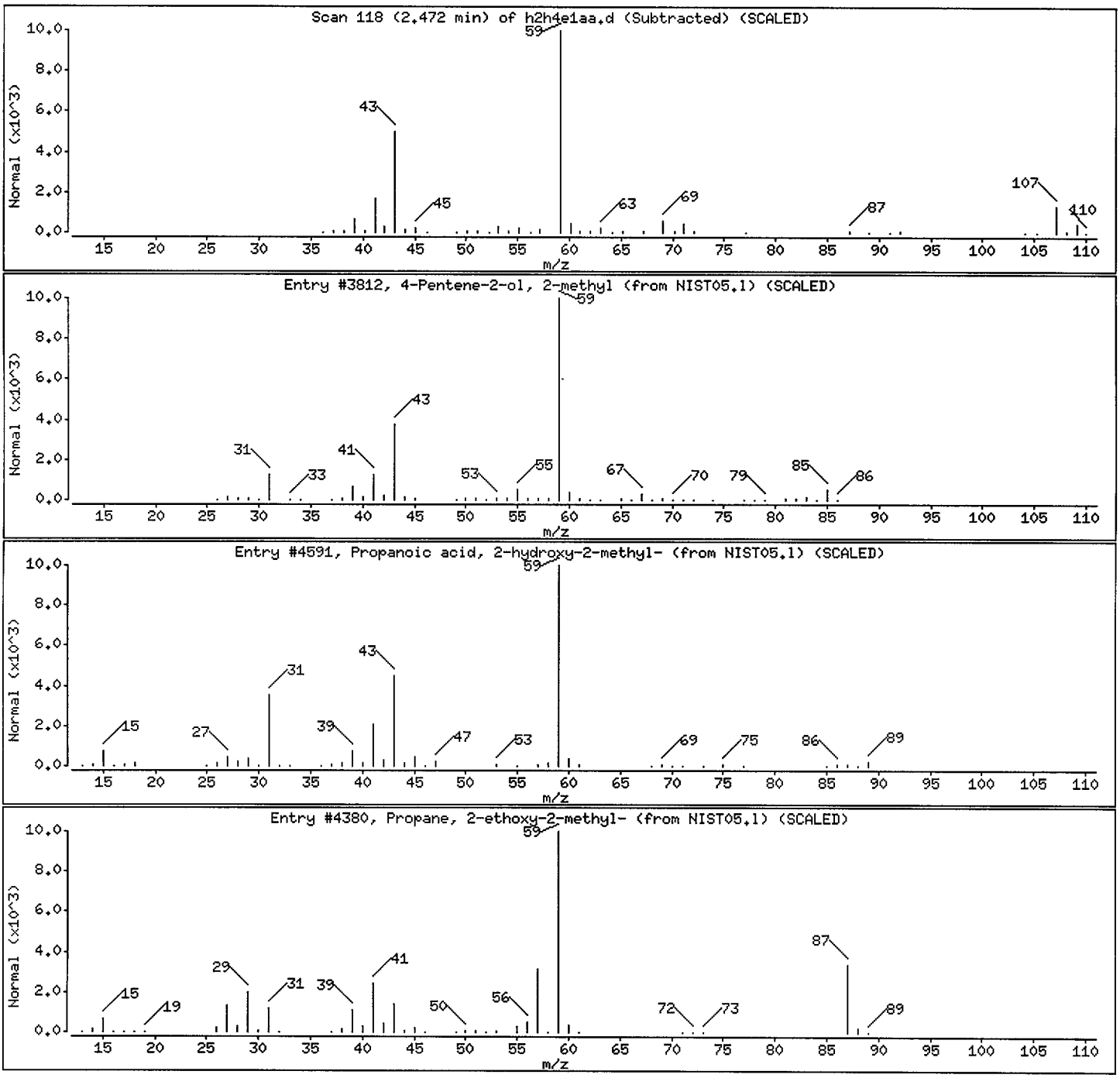
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-Pentene-2-ol, 2-methyl	624-97-5	NIST05.1	3812	45	C6H12O	100
Propanoic acid, 2-hydroxy-2-methyl-	594-61-6	NIST05.1	4591	38	C4H8O3	104
Propane, 2-ethoxy-2-methyl-	637-92-3	NIST05.1	4380	33	C6H14O	102



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

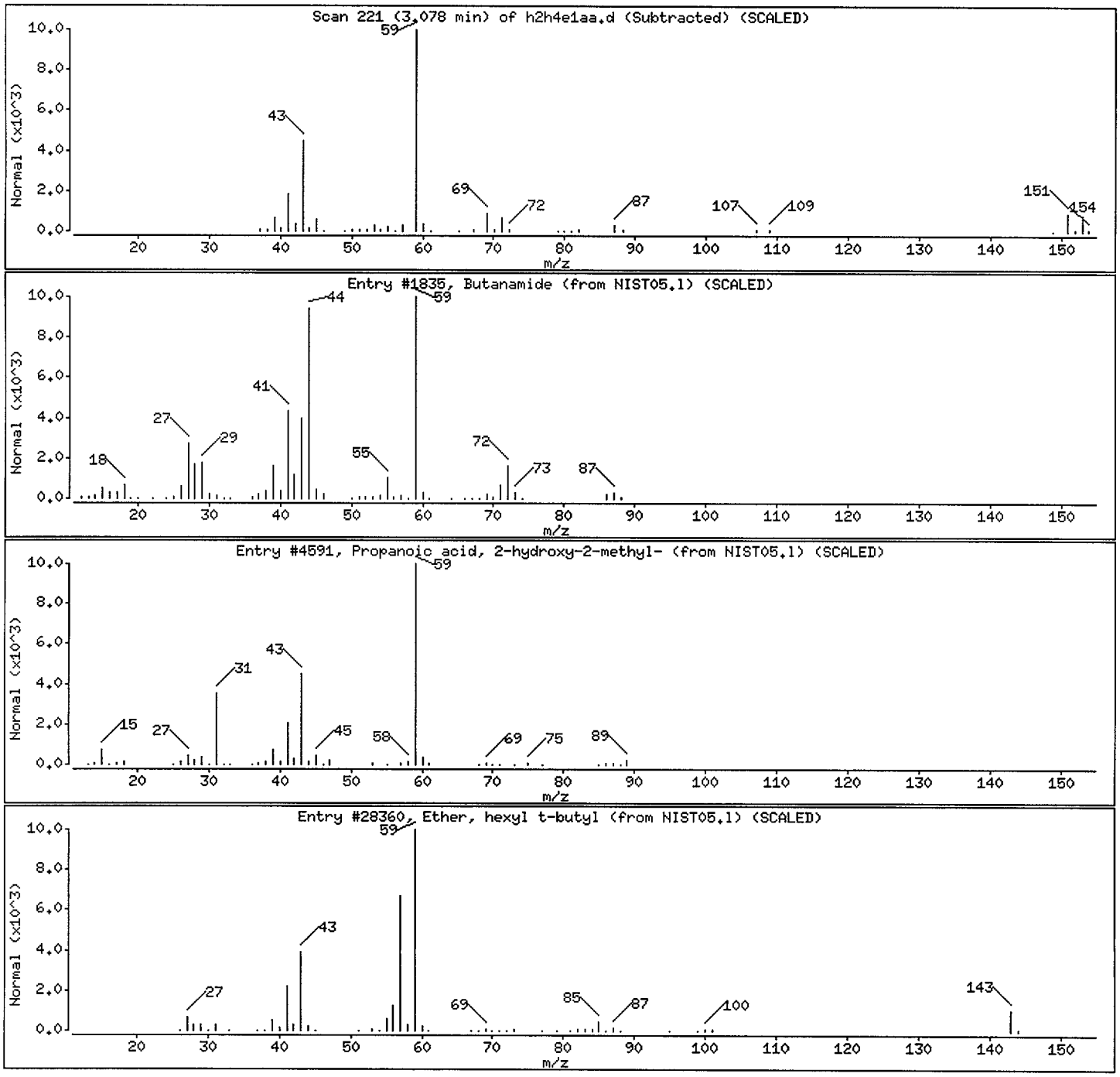
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanamide	541-35-5	NIST05.1	1835	56	C4H9NO	87
Propanoic acid, 2-hydroxy-2-methyl-	594-61-6	NIST05.1	4591	50	C4H8O3	104
Ether, hexyl t-butyl	69775-79-7	NIST05.1	28360	45	C10H22O	158



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

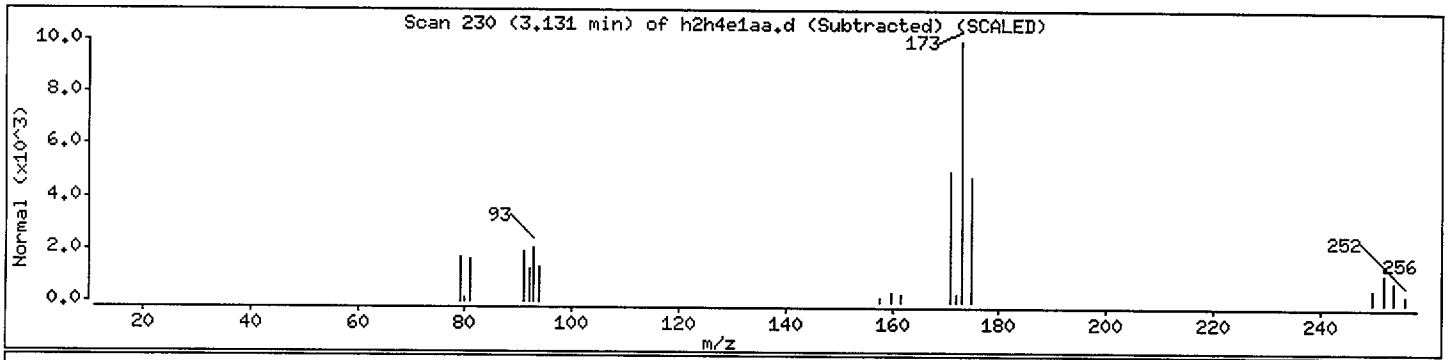
Volume Injected (uL): 1.0

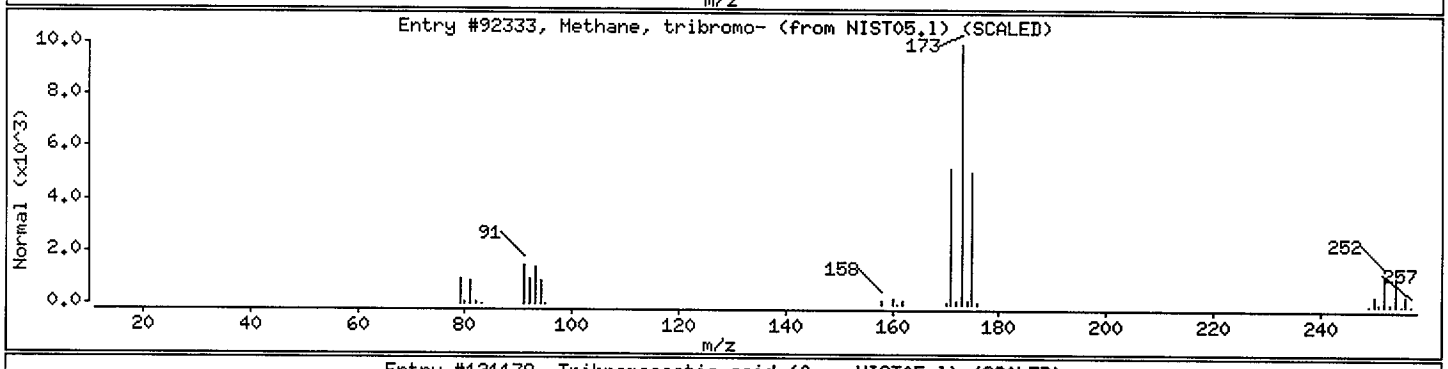
Operator: 60841

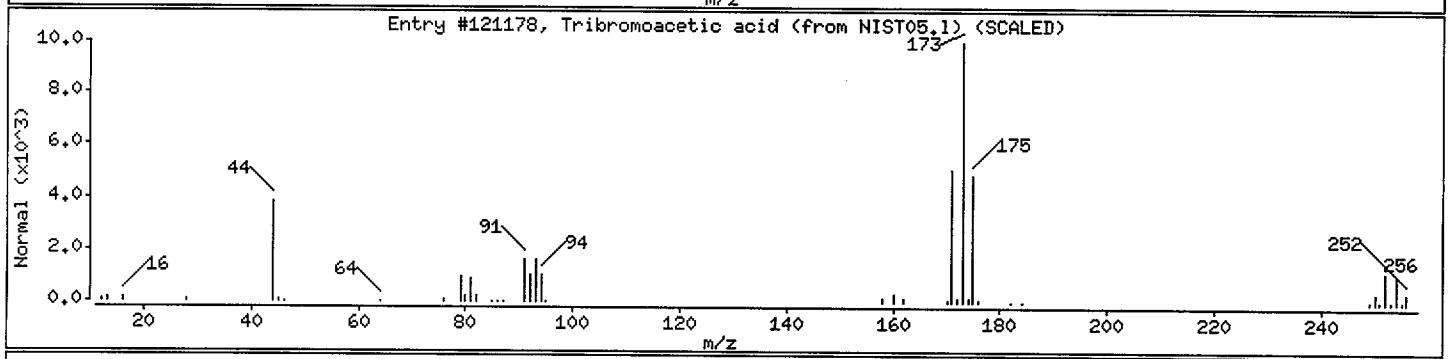
Column phase: ZB-5

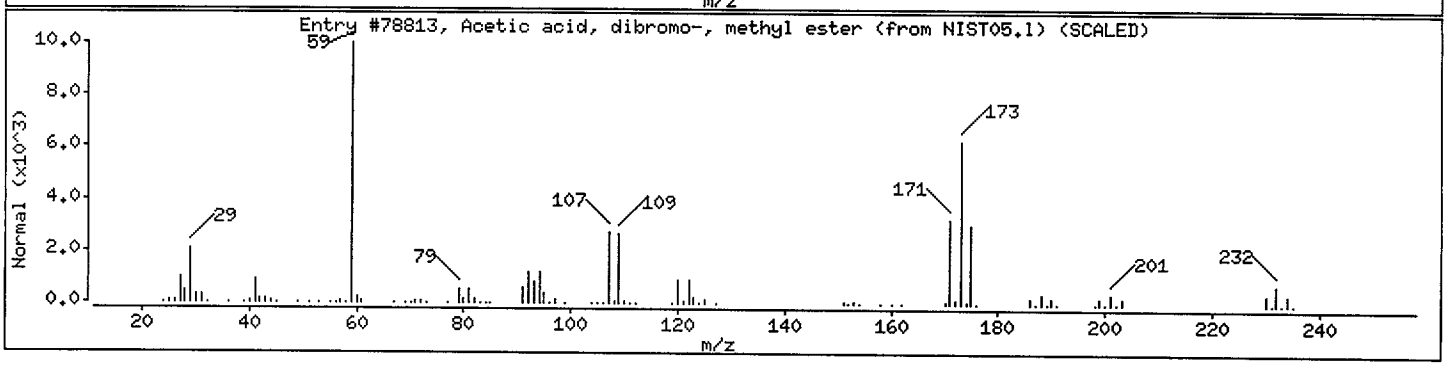
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methane, tribromo-	75-25-2	NIST05.1	92333	97	CHBr3	250
Tribromoacetic acid	75-96-7	NIST05.1	121178	91	C2HBr3O2	294
Acetic acid, dibromo-, methyl ester	6482-26-4	NIST05.1	78813	50	C3H4Br2O2	230









Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

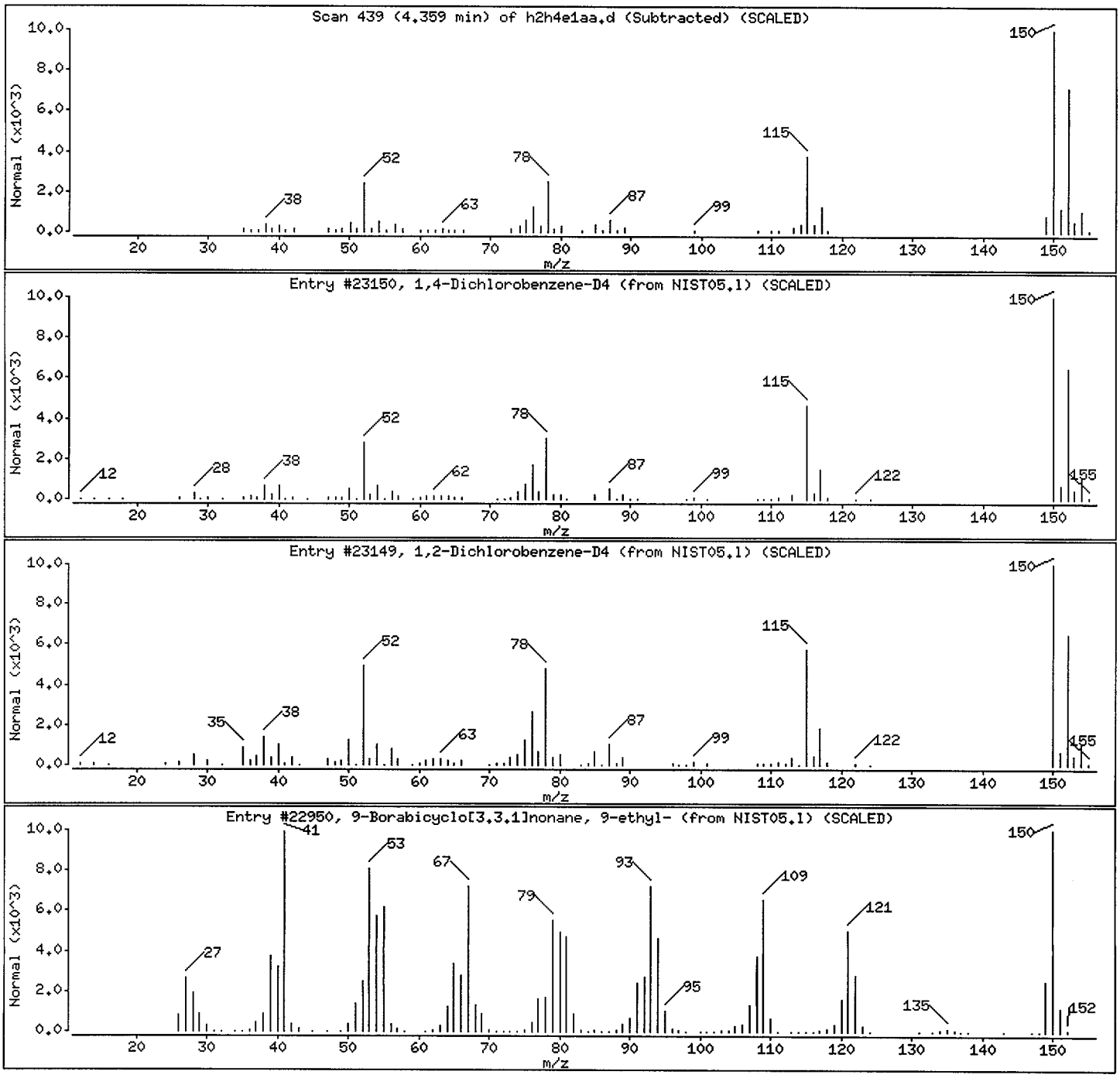
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	97	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	43	C10H19B	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

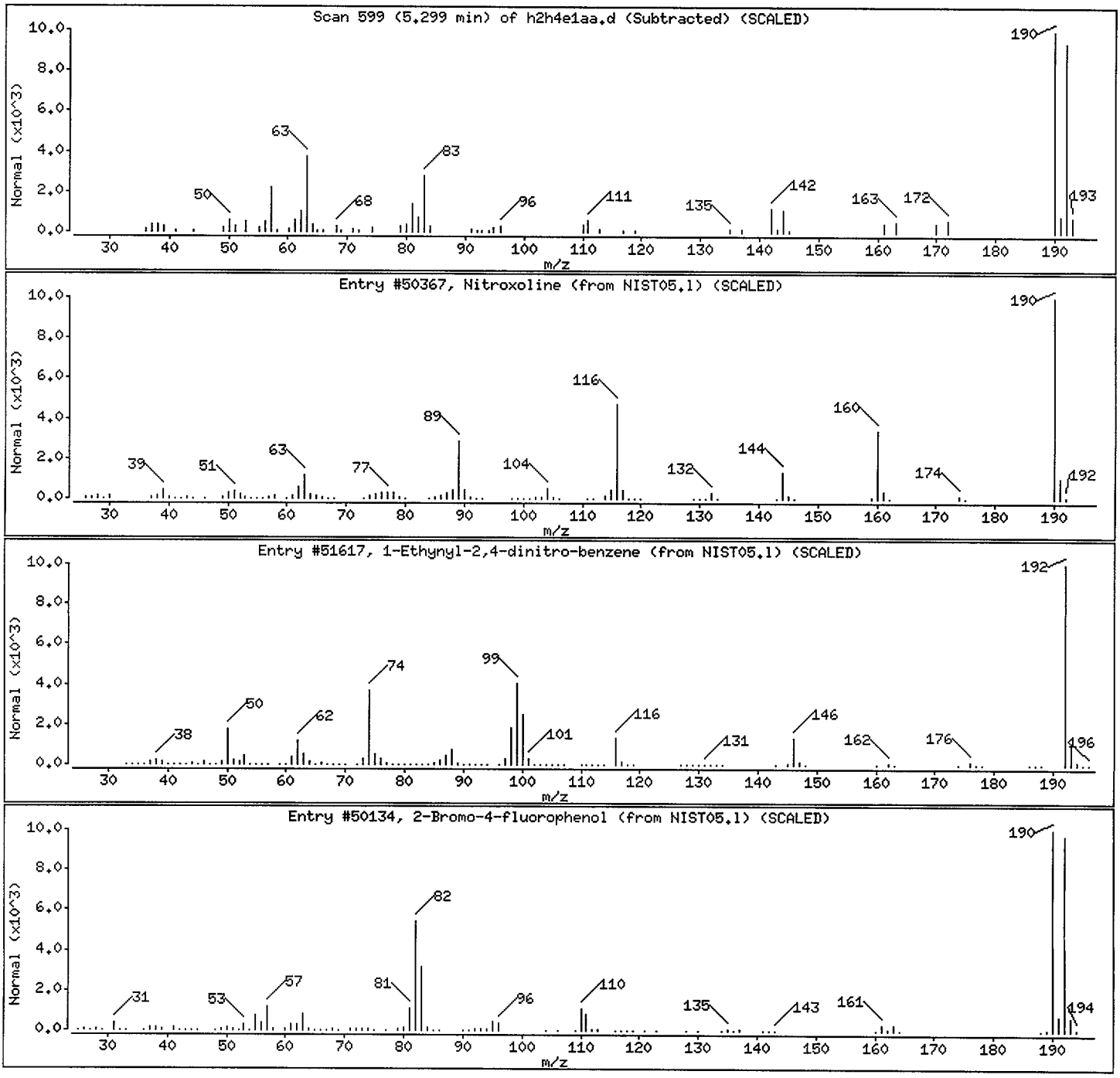
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nitroxoline	4008-48-4	NIST05.1	50367	22	C9H6N2O3	190
1-Ethynyl-2,4-dinitro-benzene	18436-61-8	NIST05.1	51617	17	C8H4N2O4	192
2-Bromo-4-fluorophenol	496-69-5	NIST05.1	50134	16	C6H4BrFO	190



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

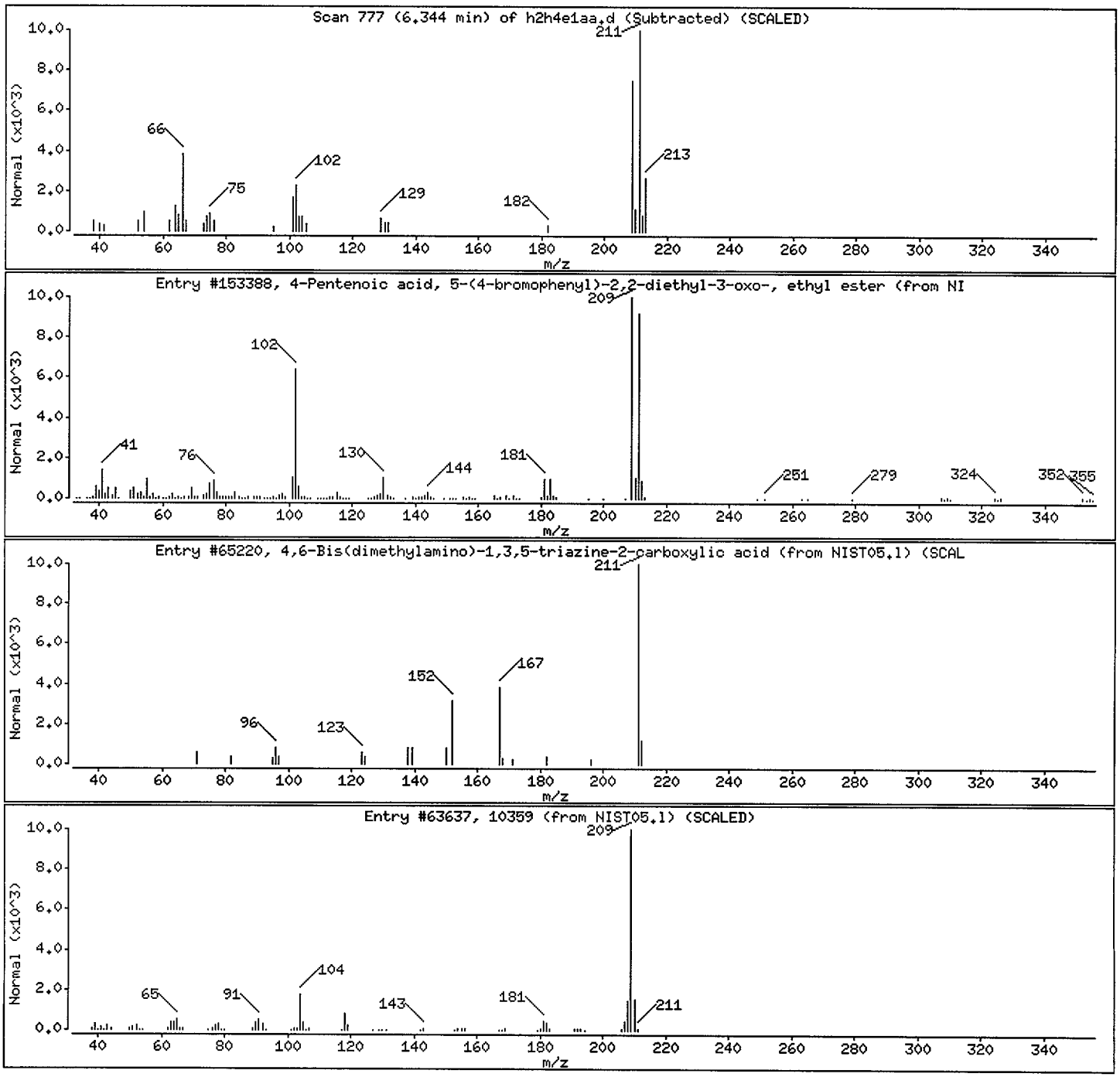
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-Pentenoic acid, 5-(4-bromophenyl)-2,2-	302941-31-7	NIST05.1	153388	12	C17H21BrO3	352
4,6-Bis(dimethylamino)-1,3,5-triazine-2-	1000101-96-9	NIST05.1	65220	12	C8H13N5O2	211
10359	2963-77-1	NIST05.1	63637	10	C13H11N3	209



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

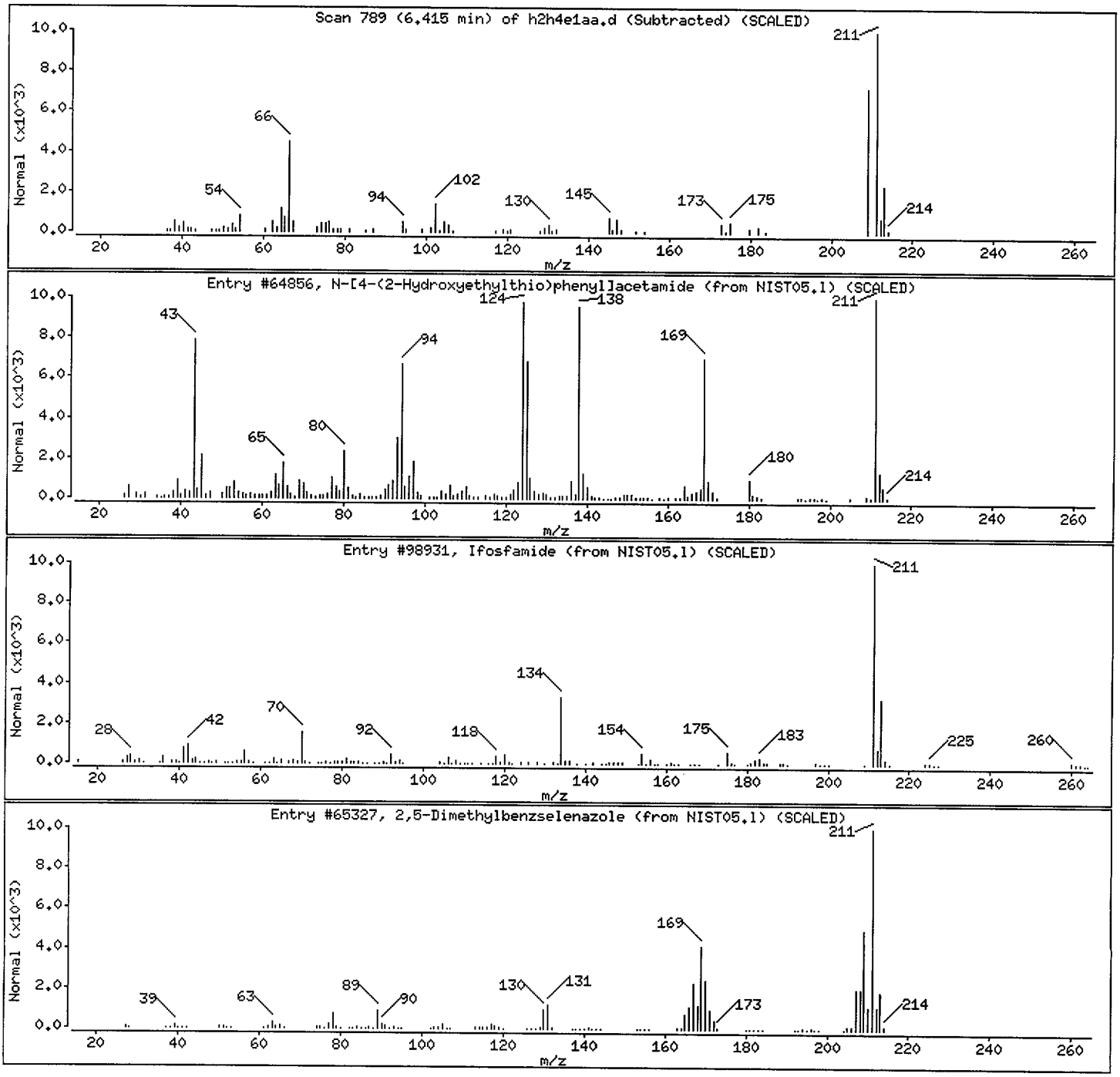
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
N-[4-(2-Hydroxyethylthio)phenyllacetamid	40179-29-1	NIST05.1	64856	10	C10H13NO2S	211
Ifosfamide	3778-73-2	NIST05.1	98931	10	C7H15Cl2N2O2P	260
2,5-Dimethylbenzselenazole	2818-89-5	NIST05.1	65327	9	C9H9NSe	211



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Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

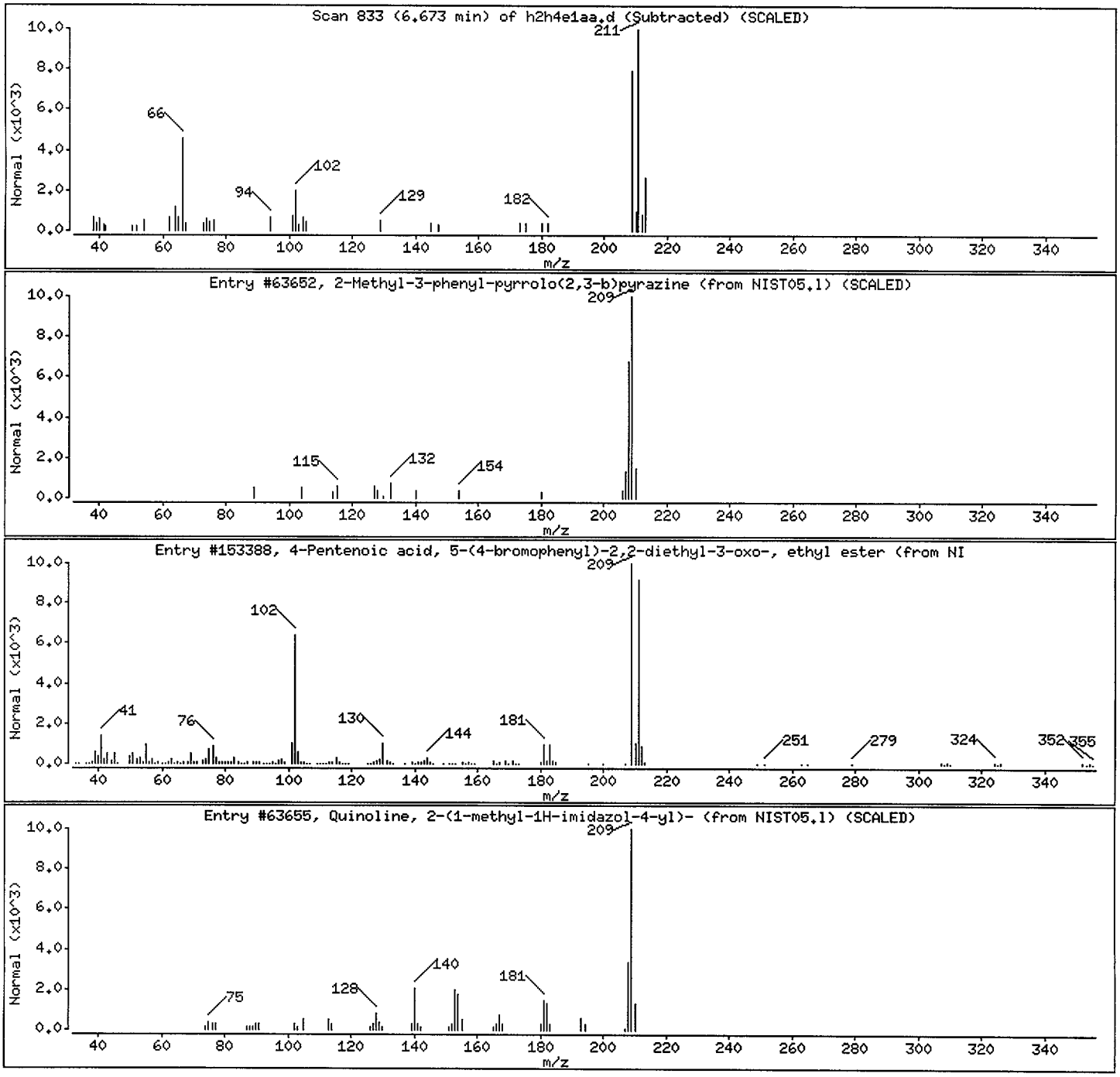
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Methyl-3-phenyl-pyrrolo(2,3-b)pyrazine	56015-25-9	NIST05.1	63652	16	C13H11N3	209
4-Pentenoic acid, 5-(4-bromophenyl)-2,2-	302941-31-7	NIST05.1	153388	12	C17H21BrO3	352
Quinoline, 2-(1-methyl-1H-imidazol-4-yl)	2552-96-7	NIST05.1	63655	12	C13H11N3	209



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Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

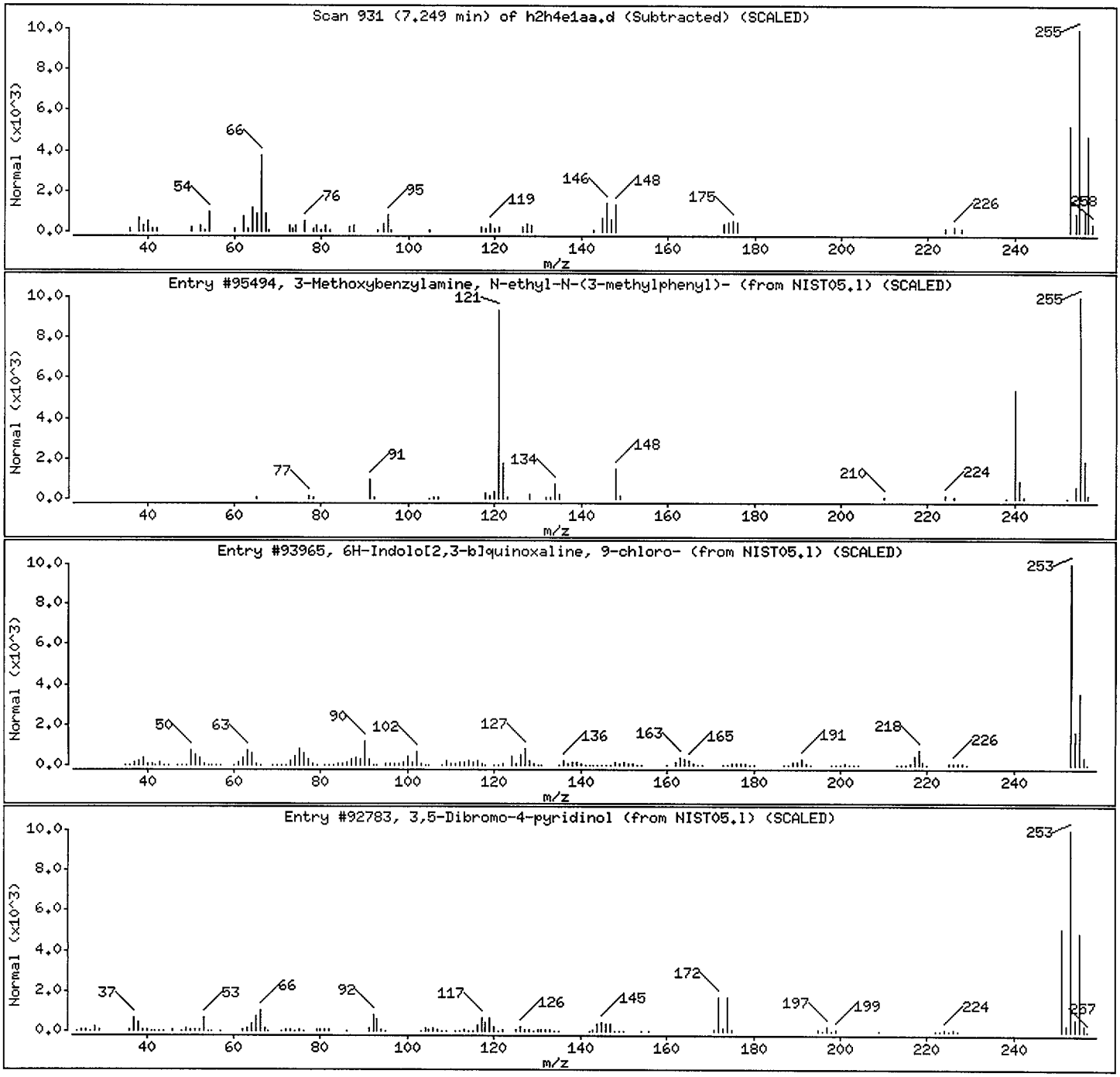
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Methoxybenzylamine, N-ethyl-N-(3-methy	1000310-33-1	NIST05.1	95494	12	C17H21NO	255
6H-Indolo[2,3-b]quinoxaline, 9-chloro-	1000304-55-7	NIST05.1	93965	11	C14H8ClN3	253
3,5-Dibromo-4-pyridinol	25813-25-6	NIST05.1	92783	10	C5H3Br2NO	251



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

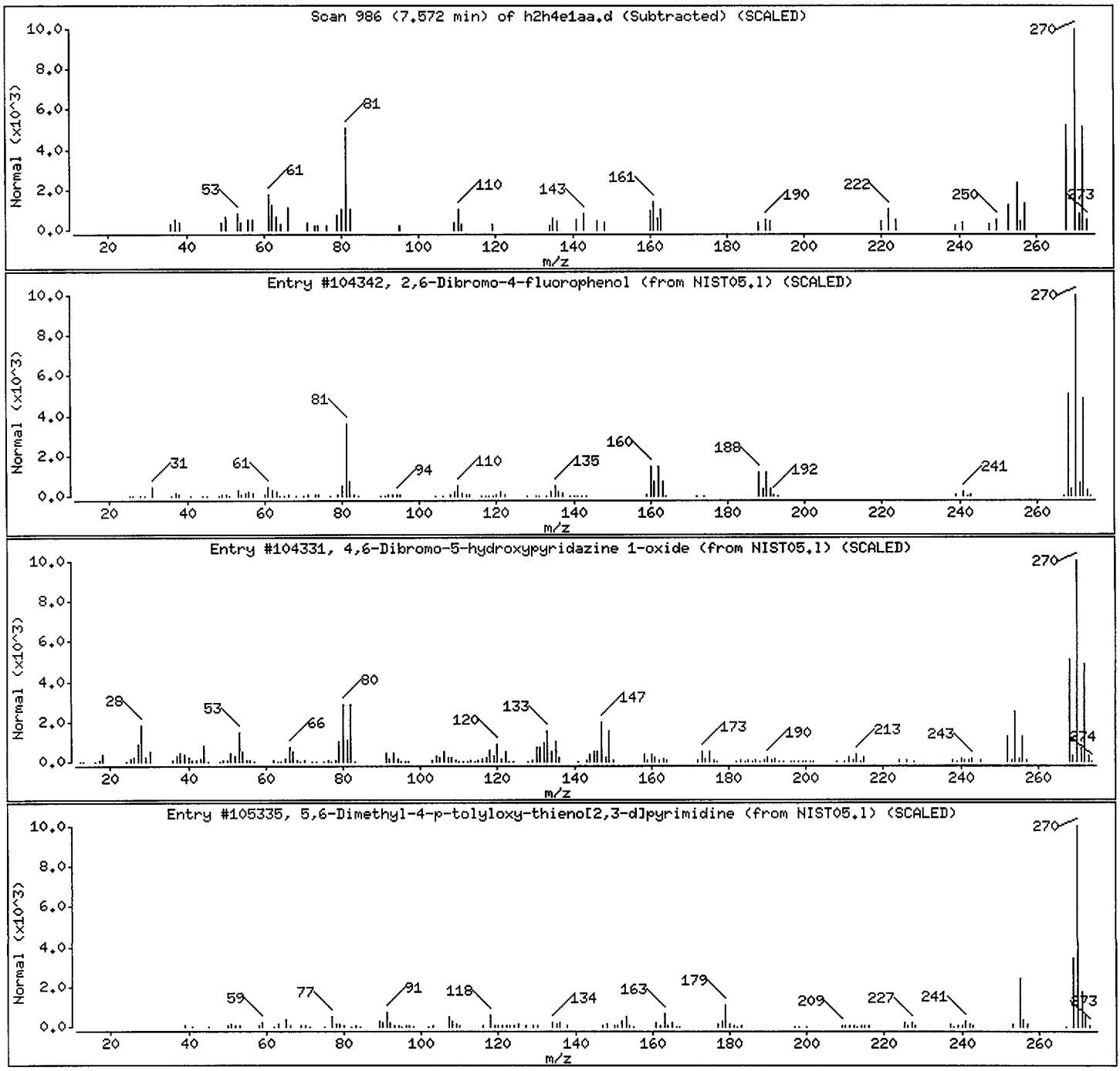
Client ID: G-3004-R2-MAKE-UP W | Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,6-Dibromo-4-fluorophenol	344-20-7	NIST05.l	104342	78	C6H3Br2FO	268
4,6-Dibromo-5-hydroxypyridazine 1-oxide	19971-61-0	NIST05.l	104331	47	C4H2Br2N2O2	268
5,6-Dimethyl-4-p-tolyloxy-thieno[2,3-d]p	302952-40-5	NIST05.l	105335	27	C15H14N2OS	270



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

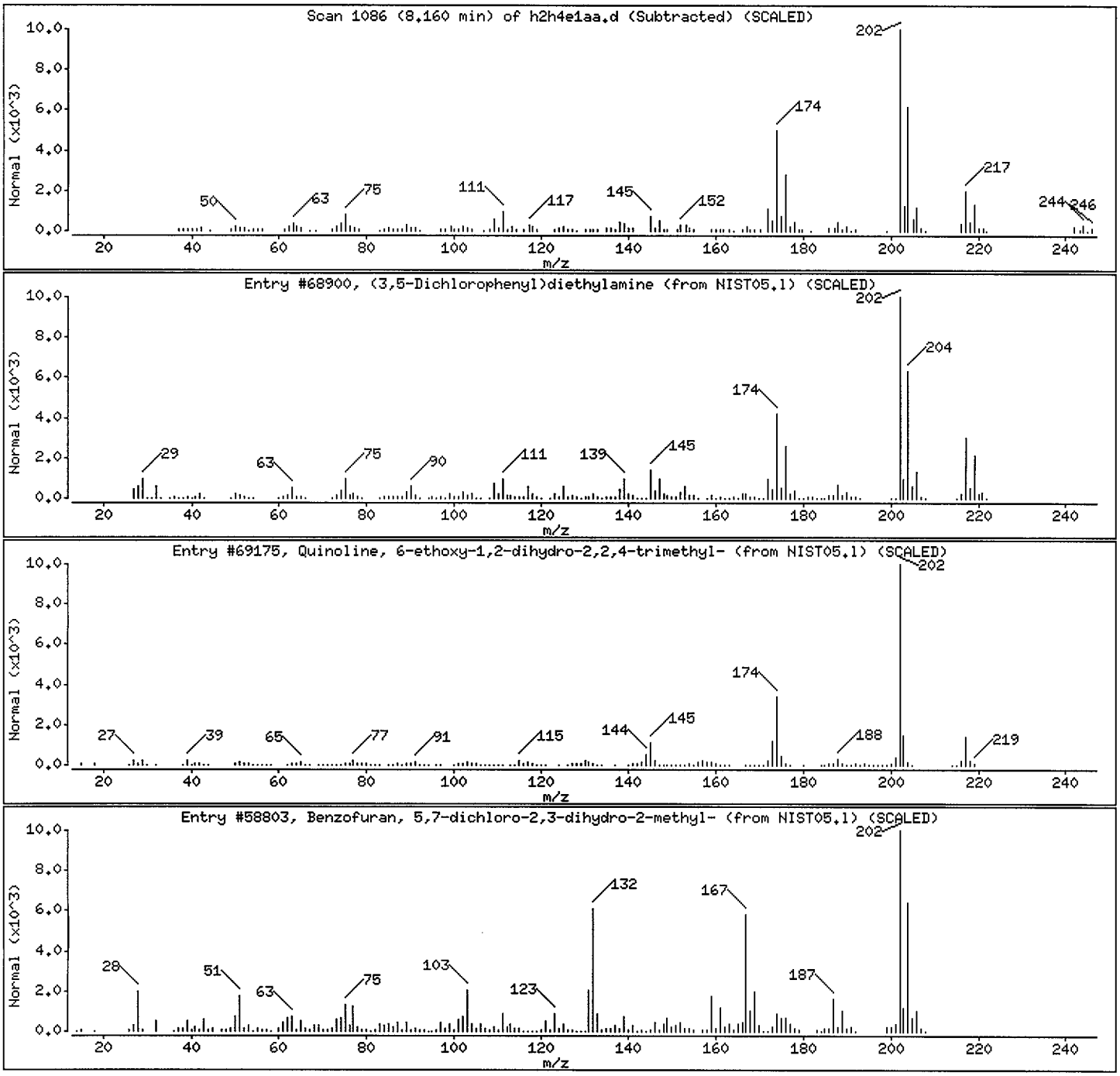
Client ID: G-3004-R2-MAKE-UP W | Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(3,5-Dichlorophenyl)diethylamine	1000306-63-5	NIST05.1	68900	93	C10H13Cl2N	217
Quinoline, 6-ethoxy-1,2-dihydro-2,2,4-tr	91-53-2	NIST05.1	69175	47	C14H19NO	217
Benzofuran, 5,7-dichloro-2,3-dihydro-2-m	54932-85-3	NIST05.1	58803	46	C9H8Cl2O	202



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Date : 18-APR-2006 21:34

Client ID: G-3004-R2-MAKE-UP W

Instrument: md.i

Sample Info: H2H4E1AA,,0,,,,

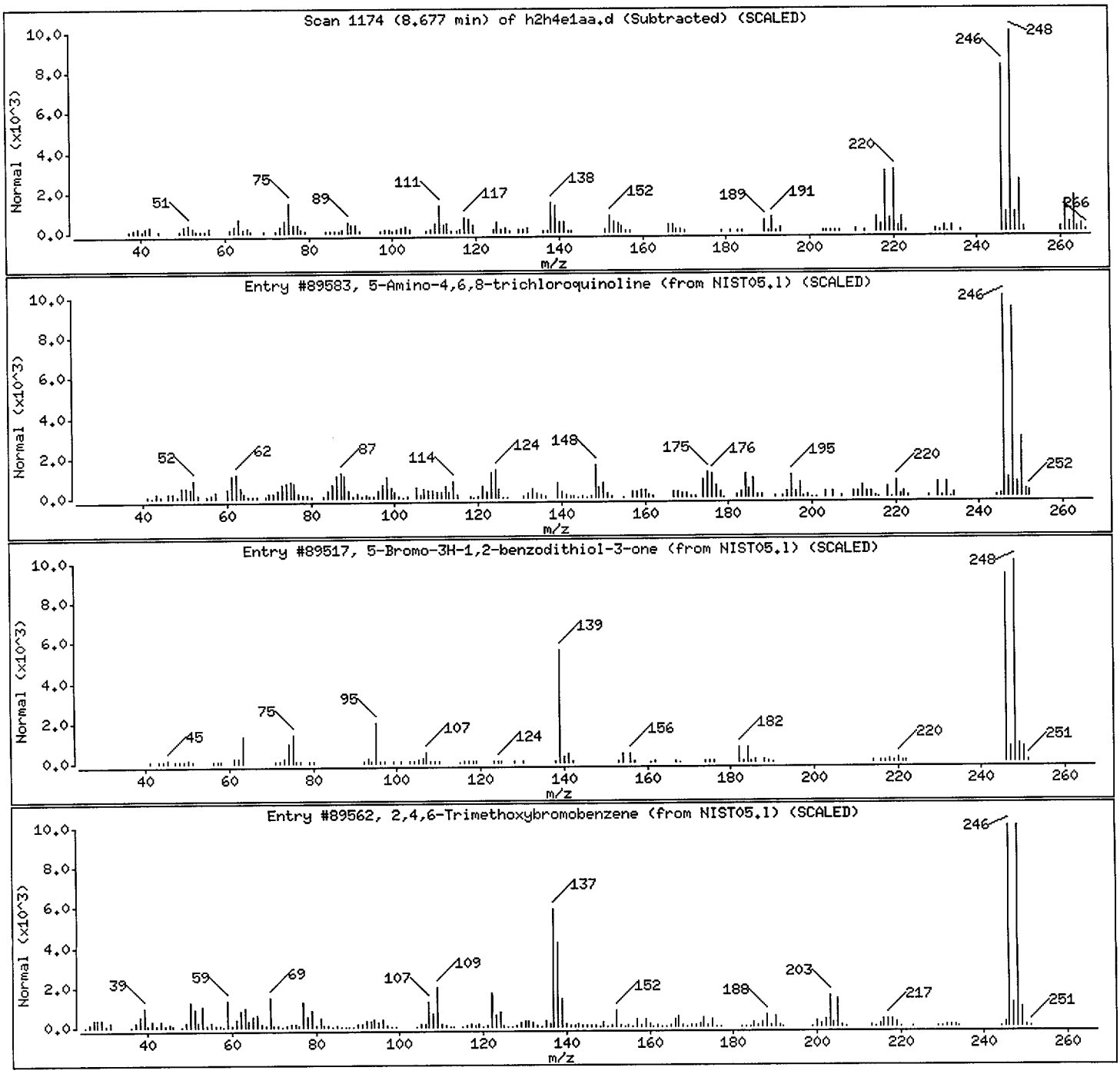
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Amino-4,6,8-trichloroquinoline	1000252-19-9	NIST05.1	89583	59	C9H5Cl3N2	246
5-Bromo-3H-1,2-benzodithiol-3-one	115475-20-2	NIST05.1	89517	58	C7H3BrOS2	246
2,4,6-Trimethoxybromobenzene	1131-40-4	NIST05.1	89562	58	C9H11BrO3	246



Data File: /var/chem/gcms/md.i/D041806.b/h2h4e1aa.d

Date : 18-APR-2006 21:34

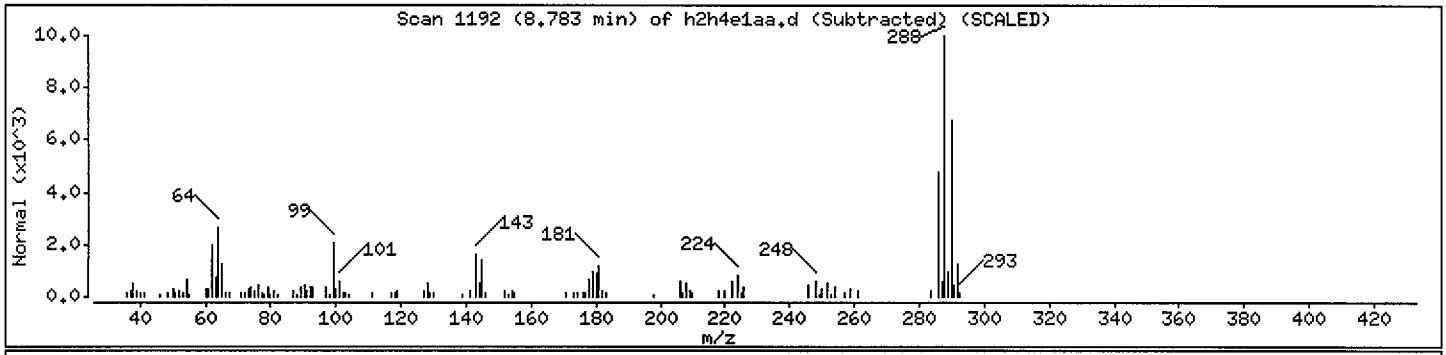
Client ID: G-3004-R2-MAKE-UP W | Instrument: md.i

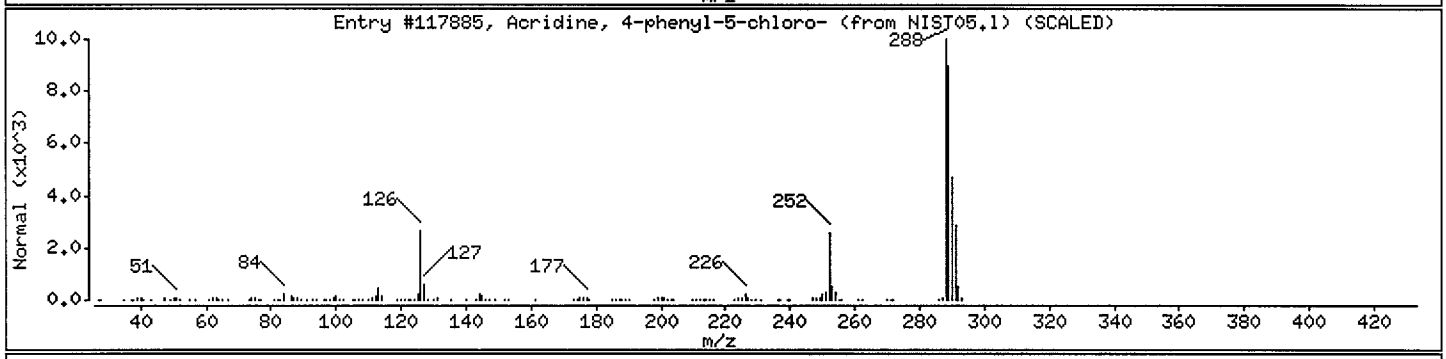
Sample Info: H2H4E1AA,,0,,,,

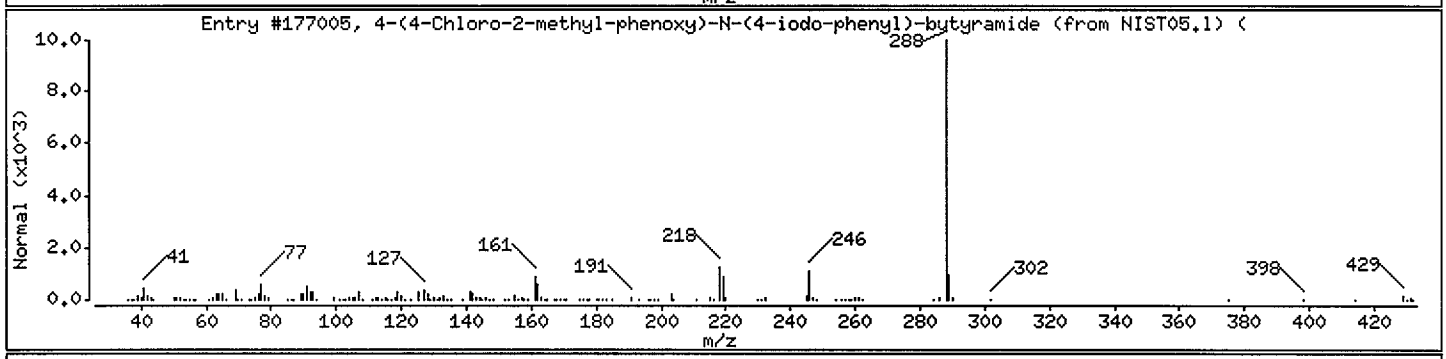
Volume Injected (uL): 1.0 | Operator: 60841

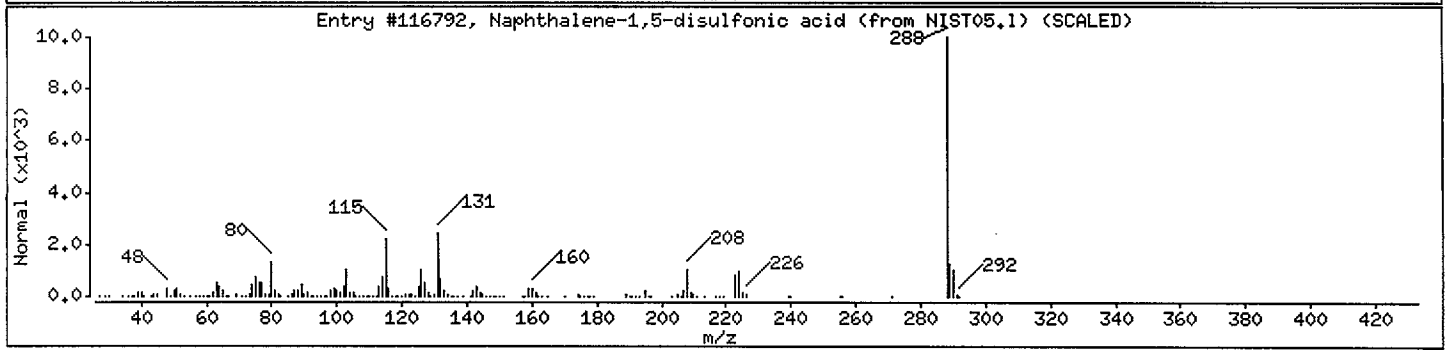
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acridine, 4-phenyl-5-chloro-	1000162-88-5	NIST05.1	117885	12	C19H12ClN	289
4-(4-Chloro-2-methyl-phenoxy)-N-(4-iodo-	101906-66-5	NIST05.1	177005	10	C17H17ClINO2	429
Naphthalene-1,5-disulfonic acid	81-04-9	NIST05.1	116792	10	C10H8O6S2	288









STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**780 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1600**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	**410 J**	**1600**	**ug/kg**	**320**
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**27000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**2100**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	1600	ug/kg	340
Dimethyl phthalate	ND	1600	ug/kg	120
1,3-Dinitrobenzene	ND	1600	ug/kg	
4,6-Dinitro-2-methylphenol	ND	8000	ug/kg	850
2,4-Dinitrophenol	ND	8000	ug/kg	800
2,4-Dinitrotoluene	ND	1600	ug/kg	340
2,6-Dinitrotoluene	ND	1600	ug/kg	340
Di-n-octyl phthalate	ND	1600	ug/kg	150
Diphenylamine	ND	1600	ug/kg	150
1,2-Diphenylhydrazine	ND	1600	ug/kg	120
Fluoranthene	**130 J**	**1600**	**ug/kg**	**130**
Fluorene	**1000 J**	**1600**	**ug/kg**	**85**
Hexachlorobenzene	ND	1600	ug/kg	90
Hexachlorobutadiene	ND	1600	ug/kg	85
Hexachlorocyclopentadiene	ND	8000	ug/kg	850
Hexachloroethane	ND	1600	ug/kg	110
Indeno(1,2,3-cd)pyrene	ND	1600	ug/kg	90
Isophorone	ND	1600	ug/kg	340
2-Methylnaphthalene	**11000**	**1600**	**ug/kg**	**85**
2-Methylphenol	ND	1600	ug/kg	100
3-Methylphenol & 4-Methylphenol	ND	1600	ug/kg	220
Naphthalene	**8700**	**1600**	**ug/kg**	**85**
2-Nitroaniline	ND	8000	ug/kg	160
3-Nitroaniline	ND	8000	ug/kg	95
4-Nitroaniline	ND	8000	ug/kg	340
Nitrobenzene	ND	1600	ug/kg	340
2-Nitrophenol	ND	1600	ug/kg	340
4-Nitrophenol	ND	8000	ug/kg	850
N-Nitrosodimethylamine	ND	1600	ug/kg	85
N-Nitrosodiphenylamine	ND	1600	ug/kg	120
N-Nitrosodi-n-propylamine	ND	1600	ug/kg	340
Pentachlorophenol	ND	8000	ug/kg	850
Phenanthrene	**1100 J**	**1600**	**ug/kg**	**95**
Phenol	**450 J**	**1600**	**ug/kg**	**85**
2,2'-oxybis(1-Chloropropane)	ND	1600	ug/kg	85
Pyrene	**220 J**	**1600**	**ug/kg**	**140**
Pyridine	ND	3300	ug/kg	85
1,2,4-Trichlorobenzene	**3000**	**1600**	**ug/kg**	**85**

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	46 *	(47 - 98)
Nitrobenzene-d5	47	(45 - 100)
2-Fluorobiphenyl	46 *	(49 - 100)
2,4,6-Tribromophenol	4.7 *	(42 - 124)
Terphenyl-d14	6.1 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-010 **Work Order #:** H2H4F1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	13000 NJ	M	2.2317	ug/kg
Tetrachloroethylene	127-18-4	12000 NJ	M	2.5372	ug/kg
Ethylbenzene	100-41-4	4400 NJ	M	2.9367	ug/kg
p-Xylene	106-42-3	14000 NJ	M	2.9955	ug/kg
Styrene	100-42-5	9700 NJ	M	3.1718	ug/kg
Ethylbenzene	100-41-4	6100 NJ	M	3.1953	ug/kg
Benzene, (1-methylethyl)-	98-82-8	5400 NJ	M	3.4479	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	M	3.7476	ug/kg
Decane	124-18-5	7100 NJ	M	4.0237	ug/kg
Unknown		3000 NJ	M	4.2646	ug/kg
Unknown		21000 NJ	M	4.3058	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	M	4.482	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2500 NJ	M	4.5466	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2800 NJ	M	4.7405	ug/kg
Undecane	1120-21-4	3000 NJ	M	4.8816	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.099	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2800 NJ	M	5.1401	ug/kg
Unknown		1400 NJ	M	5.4456	ug/kg
Dodecane	112-40-3	1400 NJ	M	5.8099	ug/kg
Tridecane	629-50-5	1700 NJ	M	6.703	ug/kg
Naphthalene, 1-methyl-	90-12-0	2700 NJ	M	6.9439	ug/kg
Biphenyl	92-52-4	1600 NJ	M	7.602	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.6842	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1500 NJ	M	7.9662	ug/kg
Bacchotricuneatin c	66563-30-2	1600 NJ	M	8.1778	ug/kg
1H-Isoindole-1,3(2H)-dione, 3a	1469-48-3	1300 NJ	M	8.3658	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1400 NJ	M	8.6772	ug/kg
Benzene, 1-methyl-2-[(3-methyl	21895-13-6	1700 NJ	M	9.2471	ug/kg
Unknown		7000 NJ	M	11.656	ug/kg
1,4-dioxane	123-91-1	650 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Lab Smp Id: H2H4F1AA Client Smp ID: G-3071-R3-SPENT ACT
Inj Date : 18-APR-2006 13:17
Operator : 60841 Inst ID: md.i
Smp Info : H2H4F1AA,5,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 8
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	54767	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	174473	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	119448	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	201836	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	216824	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	215081	20.0000	
$ 7 2-Fluorophenol	112	3.031	3.025	(0.728)	18575	4.84998	808(R)
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	31757	6.87394	1140
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	18432	4.68663	781
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	36149	4.59063	765
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	910	0.71170	119(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	6424	0.60921	102(R)
175 1,4-Dioxane	88	1.850	1.850	(0.444)	5034	3.90439	651
13 N-Nitrosodimethylamine	74	2.232	2.050	(0.536)	6961	3.80834	~~635~~
14 Pyridine	79	2.102	2.067	(0.505)	2180	0.59649	~~99.4~~

KRM 4/19/06

10

Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	13087	2.68022	447
17 Bis(2-chloroethyl)ether	93	3.748	3.930	(0.900)	1834	0.53674	~~89.4~~
19 1,3-Dichlorobenzene	146	4.177	4.124	(1.003)	52801	12.7015	~~2120~~
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.003)	52801	12.5732	2100
21 Benzyl alcohol	108	4.323	4.323	(1.038)	1824	0.75342	~~126~~
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	659520	163.862	27300 (A)
23 2-Methylphenol	108	4.370	4.476	(1.049)	5630	1.62320	~~270~~
24 2,2'-Oxybis(1-Chloropropane)	45	4.188	4.500	(1.006)	3554	0.60705	~~101~~
25 4-Methylphenol	108	4.658	4.647	(1.119)	2646	0.73380	122
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	2646	0.73380	122
27 N-Nitroso-di-n-propylamine###	70	4.347	4.658	(1.044)	3766	1.39977	~~233~~
29 Nitrobenzene	77	4.741	4.835	(0.824)	15942	4.18091	~~697~~
33 Bis(2-chloroethoxy)methane	93	5.452	5.469	(0.948)	3176	0.78005	~~130~~
34 Benzoic acid	122	5.775	5.510	(1.004)	2950	1.48886	~~248~~
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	60076	17.6906	2950
37 Naphthalene	128	5.775	5.781	(1.004)	530811	51.9559	8660
38 4-Chloroaniline	127	5.775	5.898	(1.004)	72888	16.5510	~~2760~~
40 4-Chloro-3-methylphenol (ccc)	107	6.821	6.638	(1.186)	4032	1.25922	~~210~~
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	430759	66.0493	11000
46 2-Nitroaniline	65	7.778	7.831	(0.925)	1687	0.73829	~~123~~
47 Acenaphthylene	152	8.207	8.213	(0.976)	107858	9.56726	1590
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	896	0.50761	~~84.6~~
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	31489	4.65169	775
52 2,4-Dinitrophenol ##spcc##	184	8.677	8.536	(1.031)	237	11.8988	~~1980~~
53 Dibenzofuran	168	8.677	8.648	(1.031)	9843	0.97467	~~162~~
54 4-Nitrophenol ##spcc##	109	8.660	8.683	(1.029)	1015	0.77054	~~128~~
55 2,4-Dinitrotoluene	165	8.712	8.718	(1.036)	7285	3.06135	~~510~~
56 Fluorene	166	9.036	9.036	(1.074)	50946	6.05329	1010
60 4,6-Dinitro-2-methylphenol	198	9.171	9.159	(0.924)	816	0.64316	~~107~~
61 N-Ndpa / diphenylamine (ccc)	169	9.183	9.194	(0.925)	3646	0.69070	~~115~~
62 1,2-Diphenylhydrazine/azobnz	77	9.247	9.218	(0.932)	6232	0.76122	~~127~~
66 Phenanthrene	178	9.940	9.946	(1.002)	81125	6.66585	1110
67 Anthracene	178	9.982	9.982	(1.006)	17181	1.41117	235
68 Carbazole	167	9.835	10.134	(0.991)	6352	0.55382	~~92.3~~
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	10383	0.78989	132
71 Pyrene	202	11.080	11.080	(0.923)	17992	1.29743	216
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	19595	2.48113	414
84 Benzidine	184	10.916	11.016	(1.100)	6982	0.84400	~~141~~
91 acetophenone	105	4.629	4.623	(1.111)	76262	16.5748	~~2760~~
104 m-dinitrobenzene	76	8.148	8.160	(0.969)	1221	1.22745	~~204~~
110 diphenylamine	169	9.183	9.188	(1.091)	3646	0.58318	~~97.2~~

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4f1aa.d
Lab Smp Id: H2H4F1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-3071-R3-SPENT ACT
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	54767	-11.56
2 Naphthalene-d8	196946	98473	393892	174473	-11.41
3 Acenaphthene-d10	140395	70198	280790	119448	-14.92
4 Phenanthrene-d10	245474	122737	490948	201836	-17.78
5 Chrysene-d12	253631	126816	507262	216824	-14.51
6 Perylene-d12	225613	112806	451226	215081	-4.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 14:40

STL Knoxville

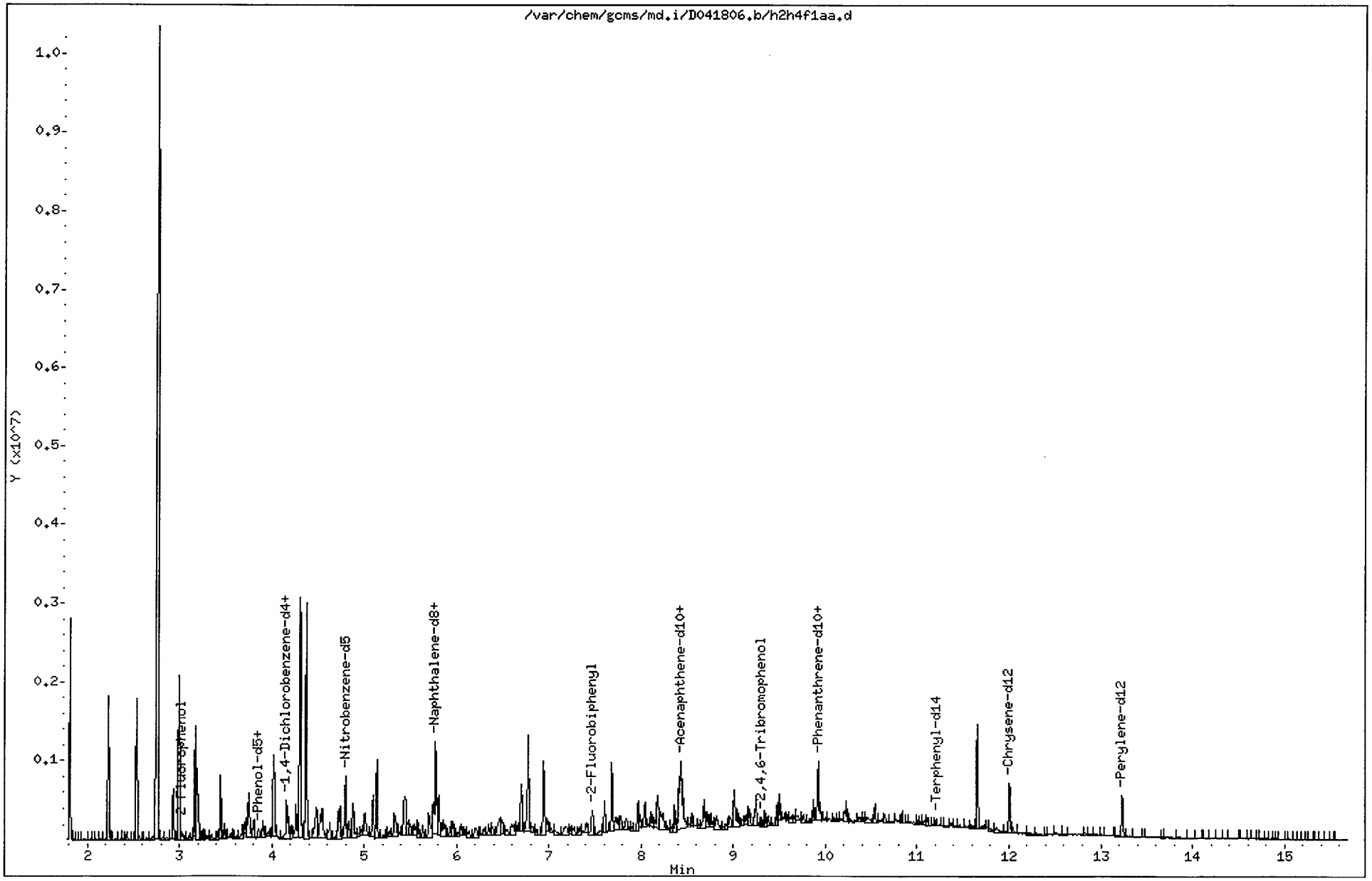
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: H2H4F1AA
Client Smp ID: G-3071-R3-SPENT ACT
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	808	32.33*	44-103
$ 8 Phenol-d5	2500	1140	45.83	44-101
$ 9 Nitrobenzene-d5	1670	781	46.87	42-100
$ 10 2-Fluorobiphenyl	1670	765	45.91	45-102
$ 11 2,4,6-Tribromophen	2500	119	4.74*	47-116
$ 12 Terphenyl-d14	1670	102	6.09*	54-114

Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Date : 18-APR-2006 13:17
Client ID: G-3071-R3-SPENT ACT
Sample Info: H2H4F1AA,5,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

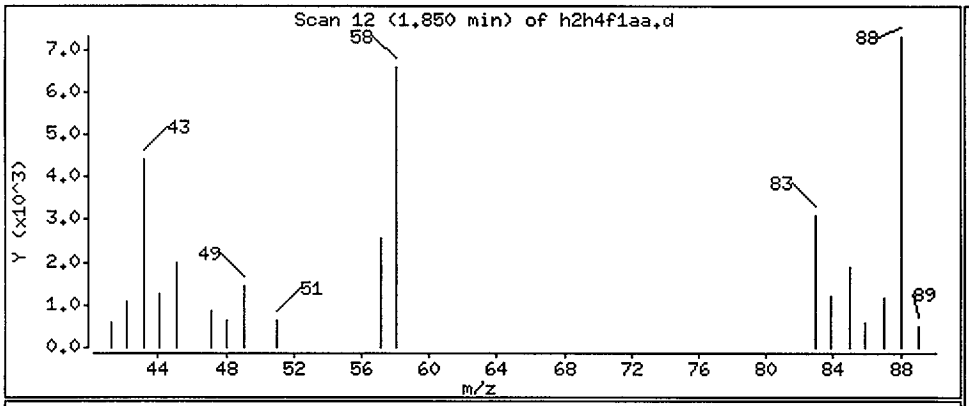
Operator: 60841

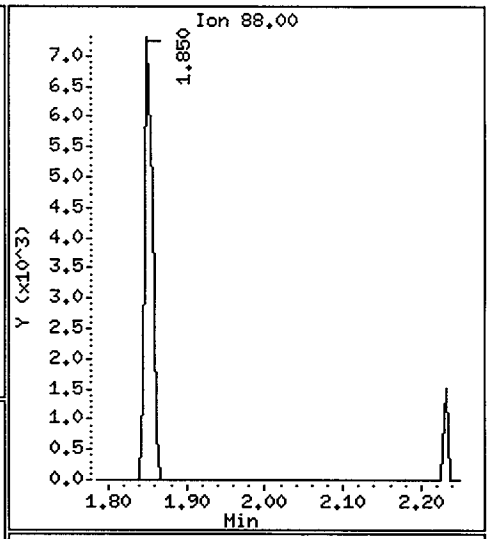
Column phase: ZB-5

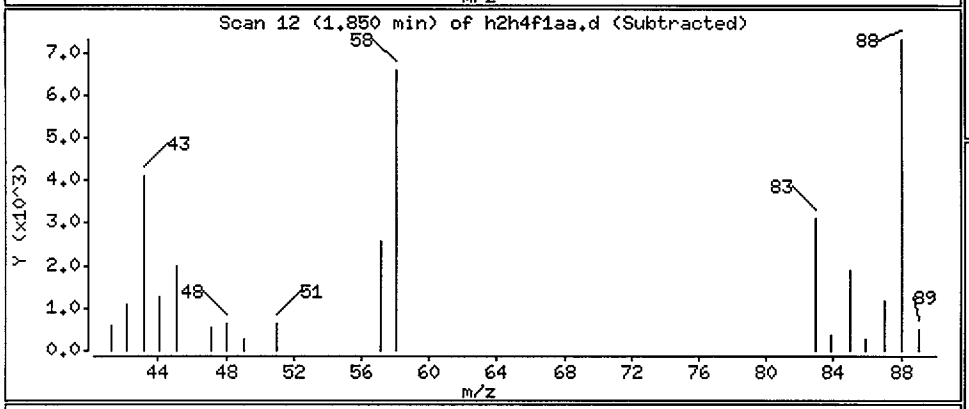
Column diameter: 0.25

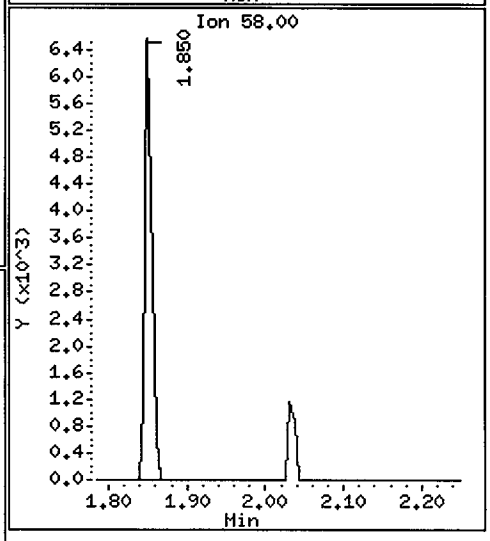
175 1,4-Dioxane

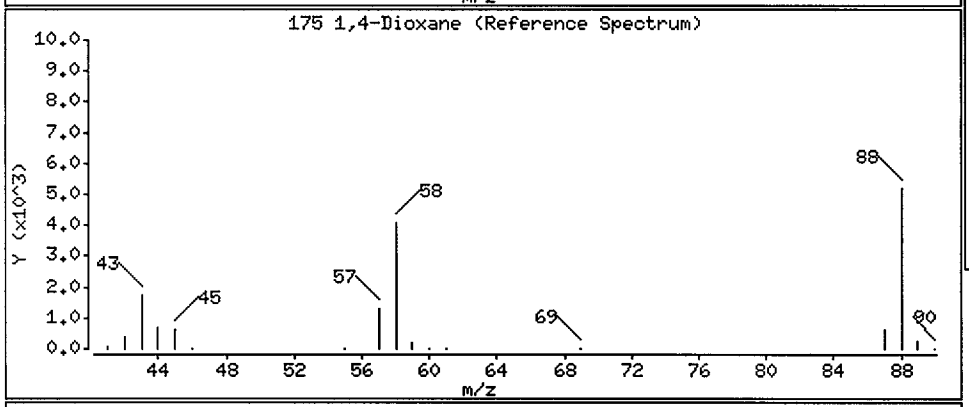
Concentration: 651 ug/Kg

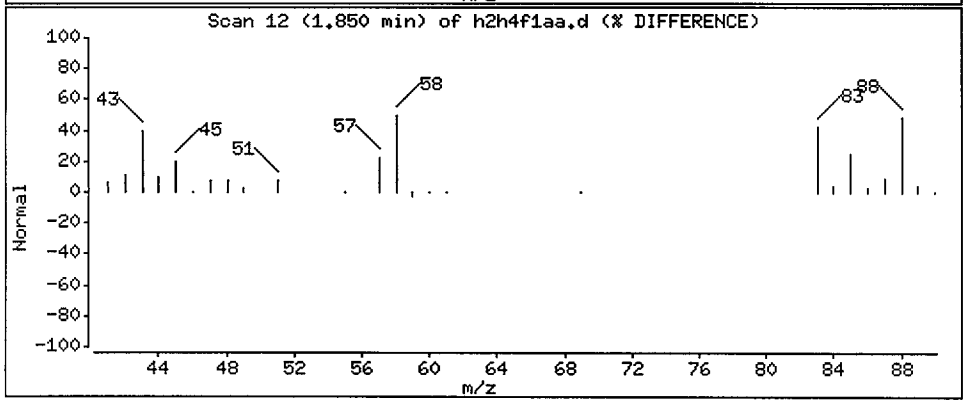












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

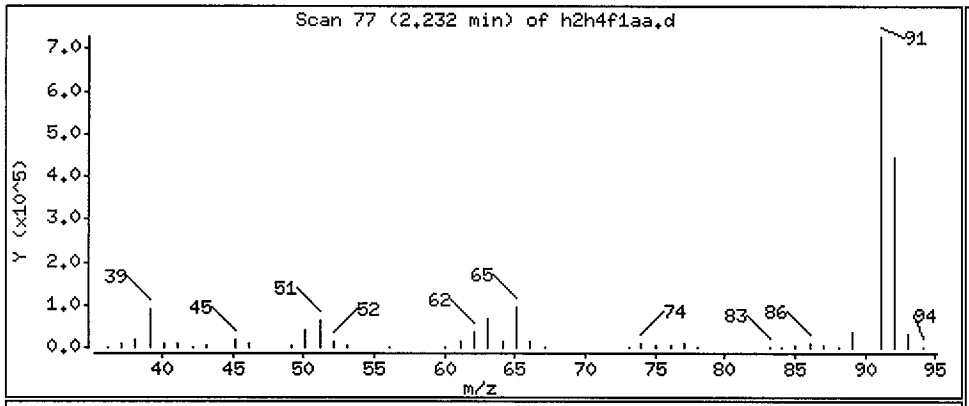
Operator: 60841

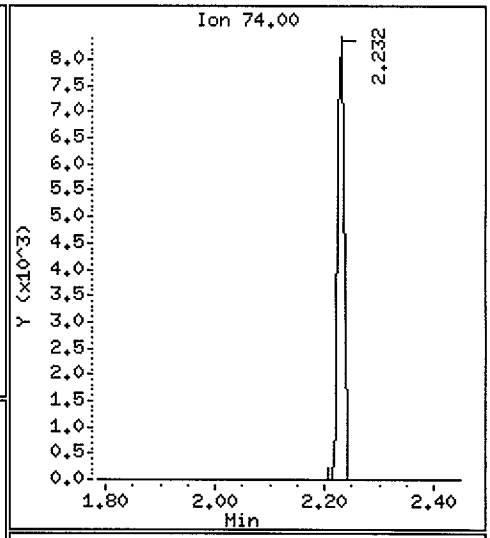
Column phase: ZB-5

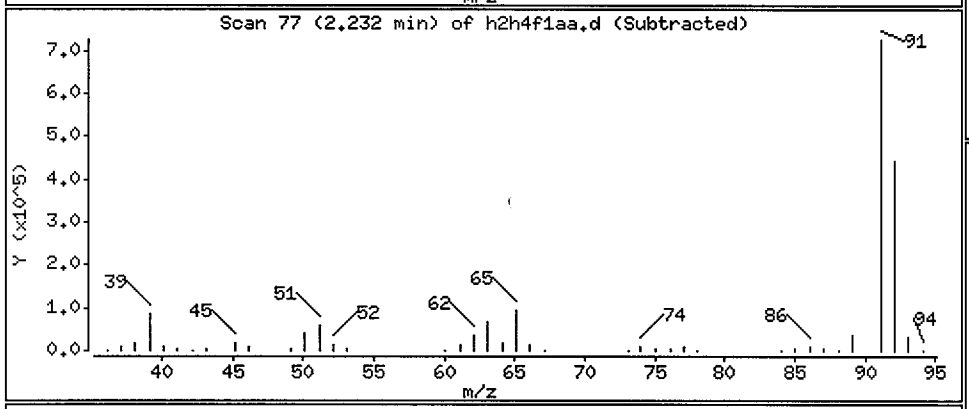
Column diameter: 0.25

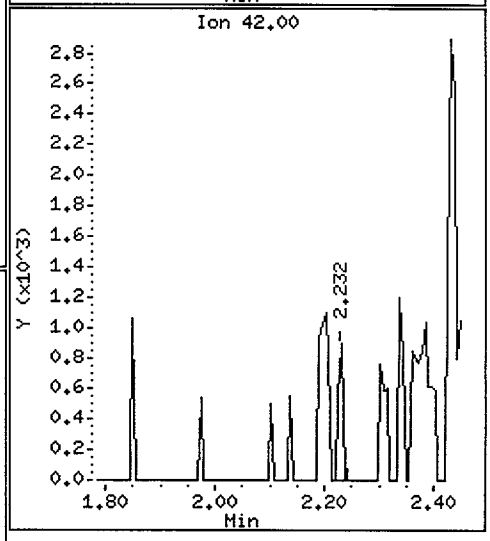
13 N-Nitrosodimethylamine

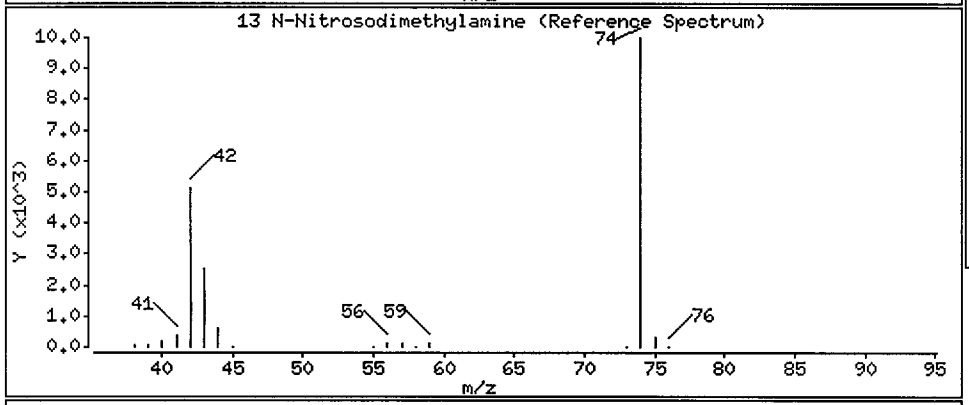
Concentration: 635 ug/Kg

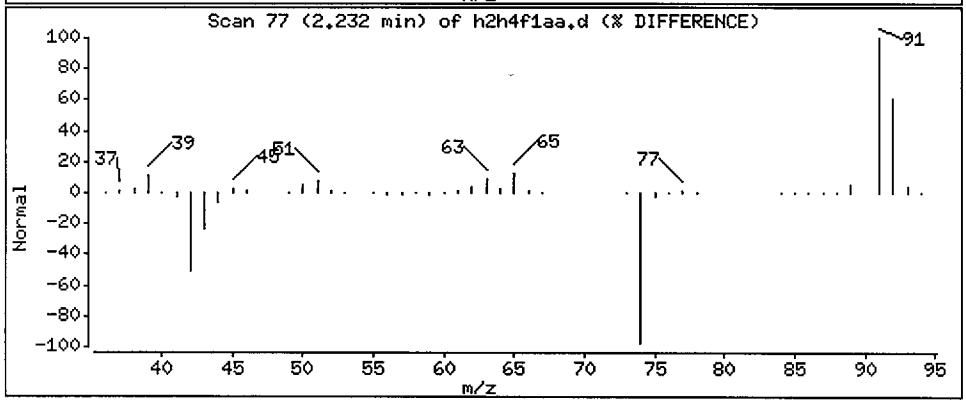












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

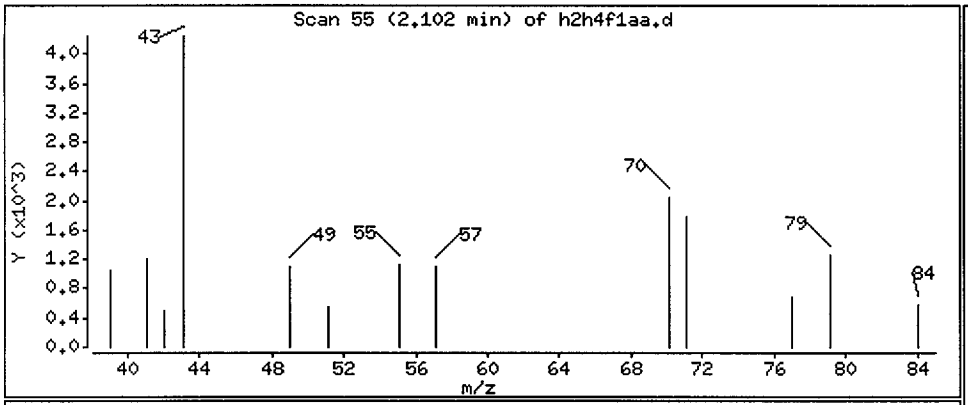
Operator: 60841

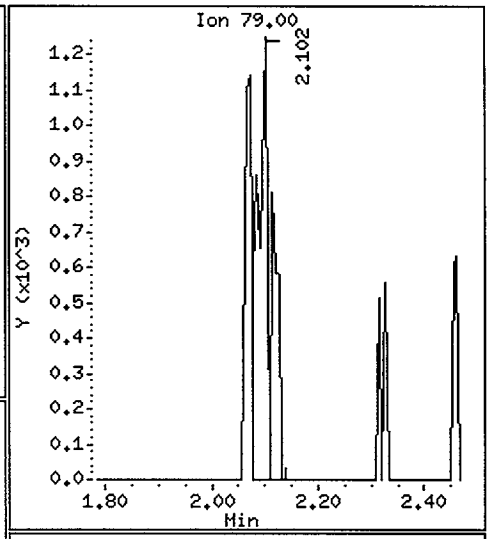
Column phase: ZB-5

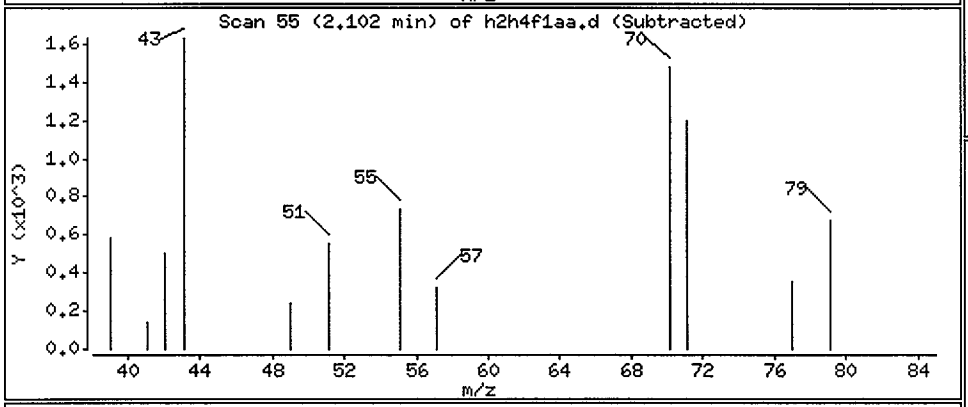
Column diameter: 0.25

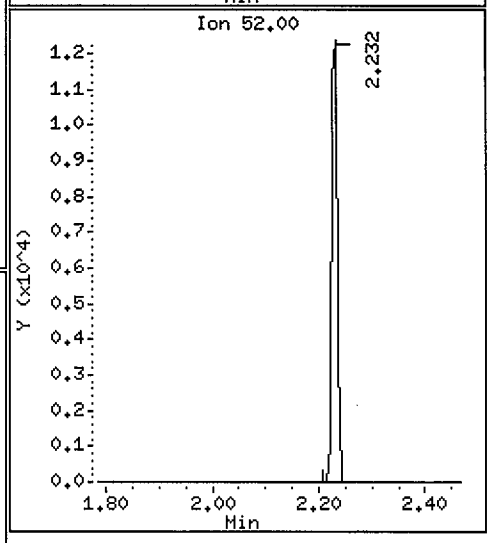
14 Pyridine

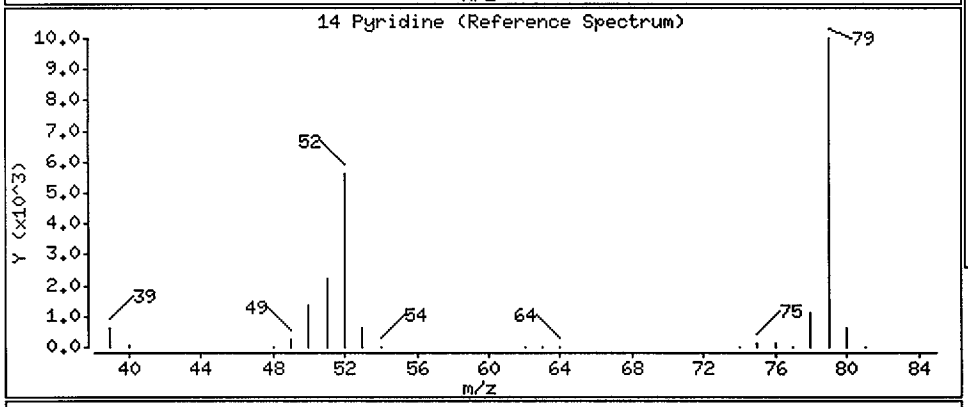
Concentration: 99.4 ug/Kg

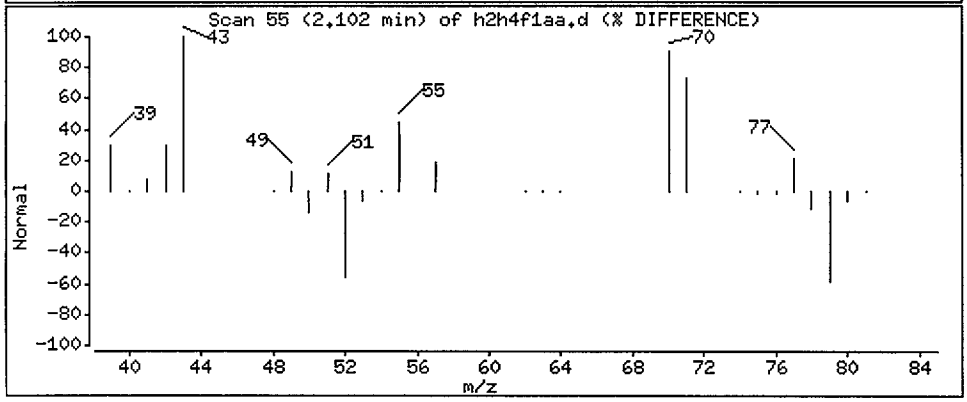












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

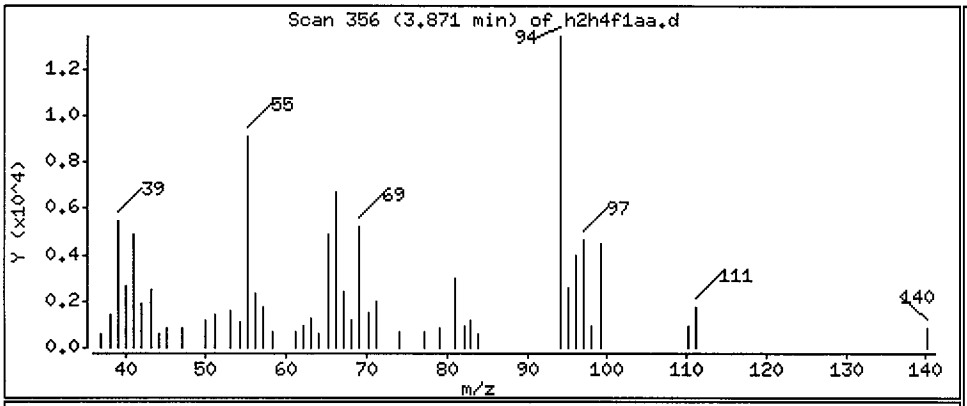
Operator: 60841

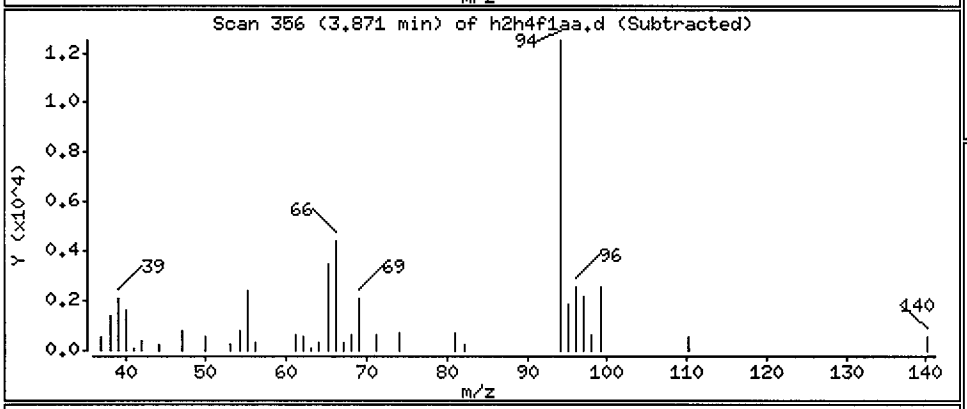
Column phase: ZB-5

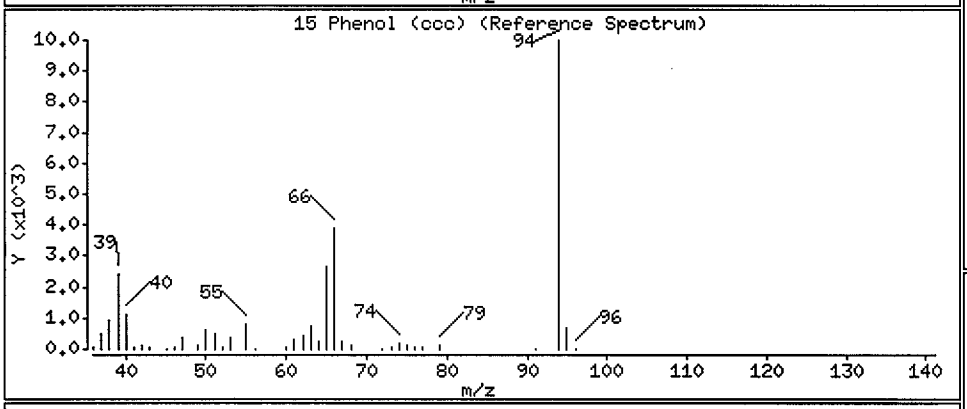
Column diameter: 0.25

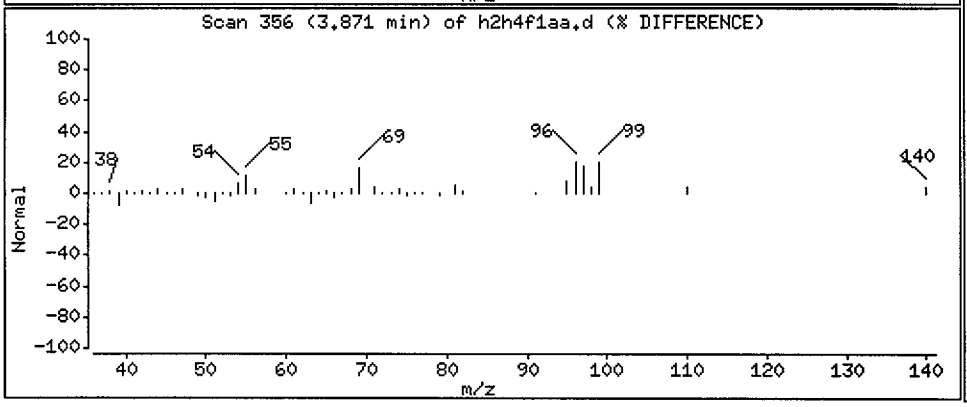
15 Phenol (ccc)

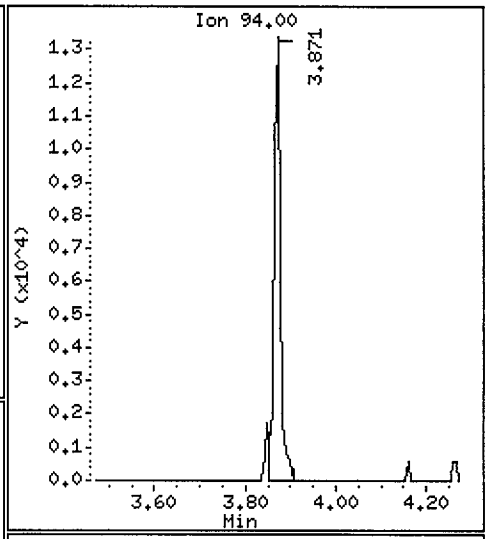
Concentration: 447 ug/Kg

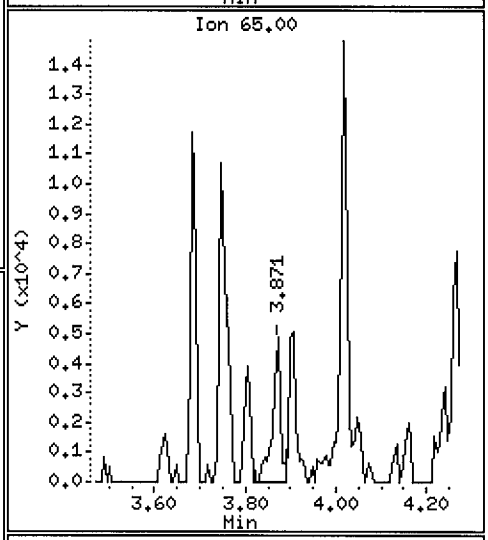


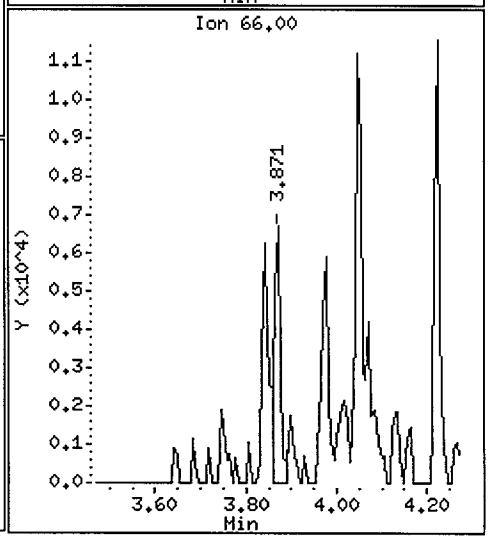












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

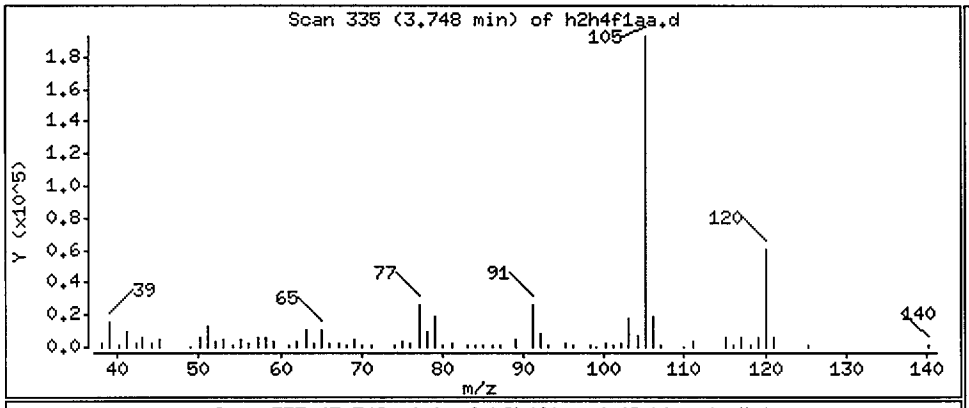
Operator: 60841

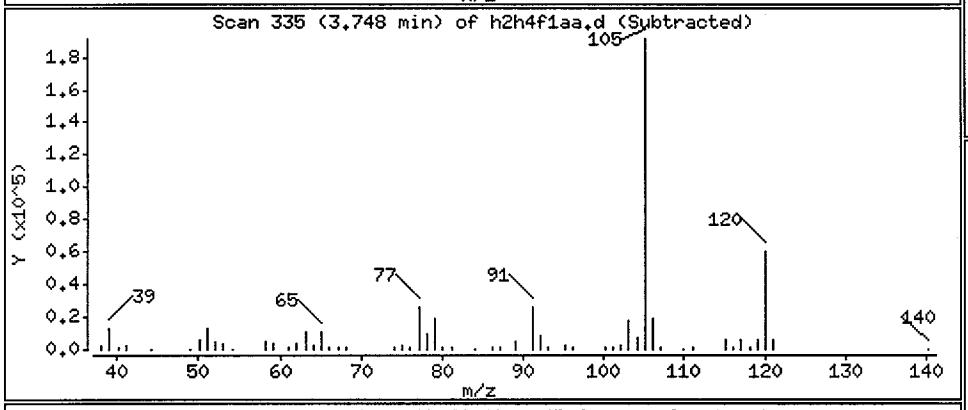
Column phase: ZB-5

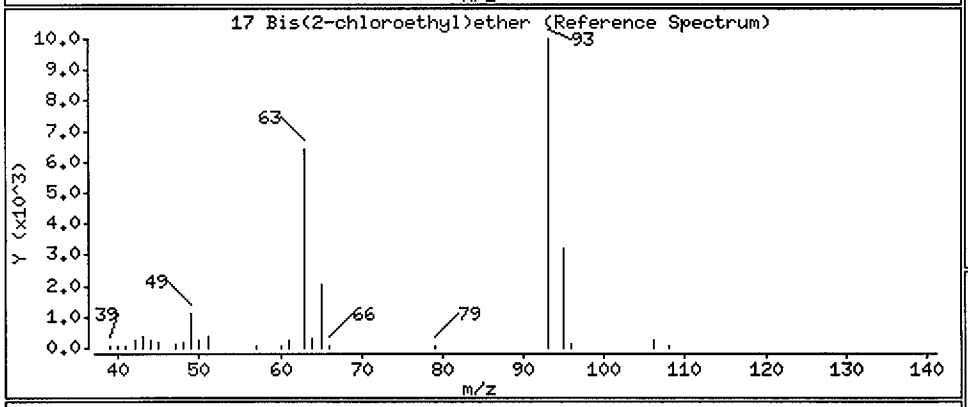
Column diameter: 0.25

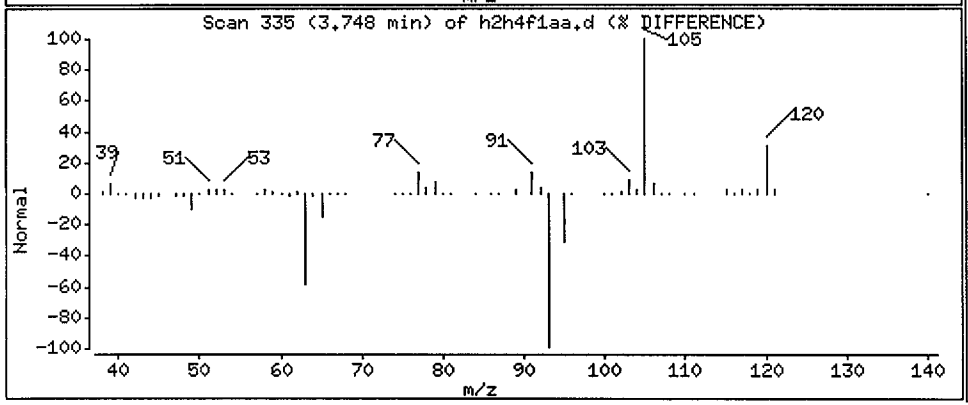
17 Bis(2-chloroethyl)ether

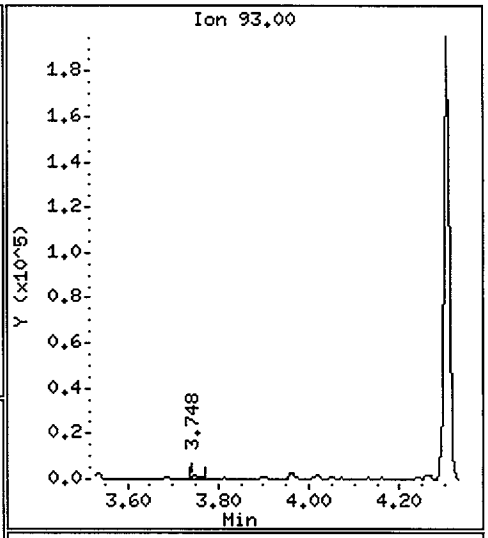
Concentration: 89.4 ug/Kg

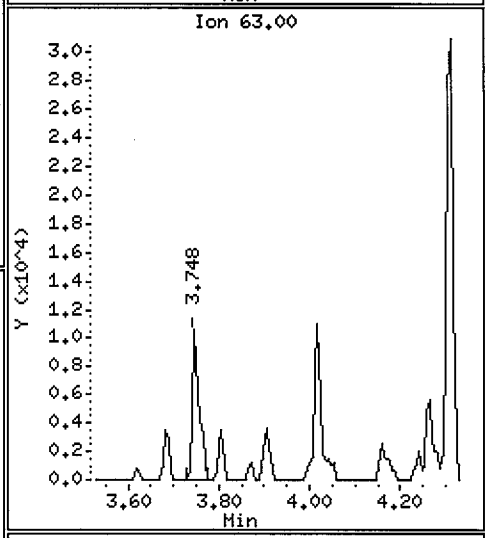


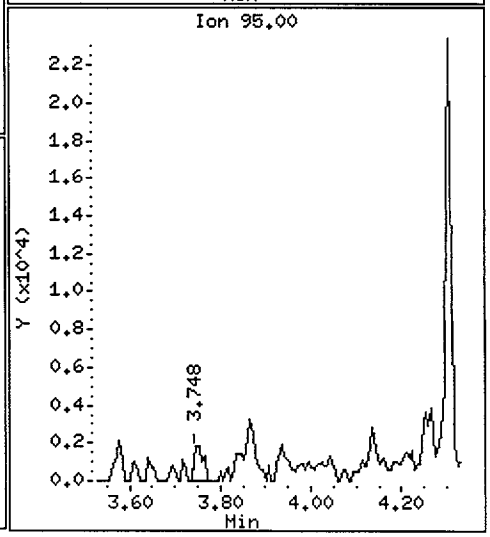












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

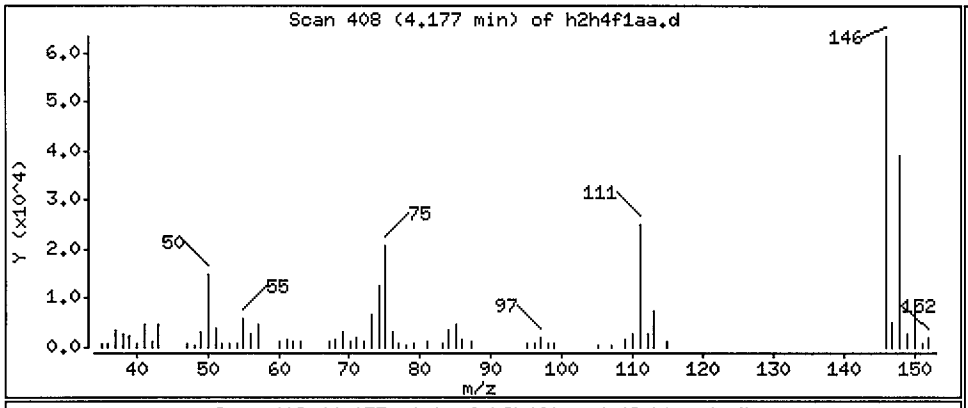
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

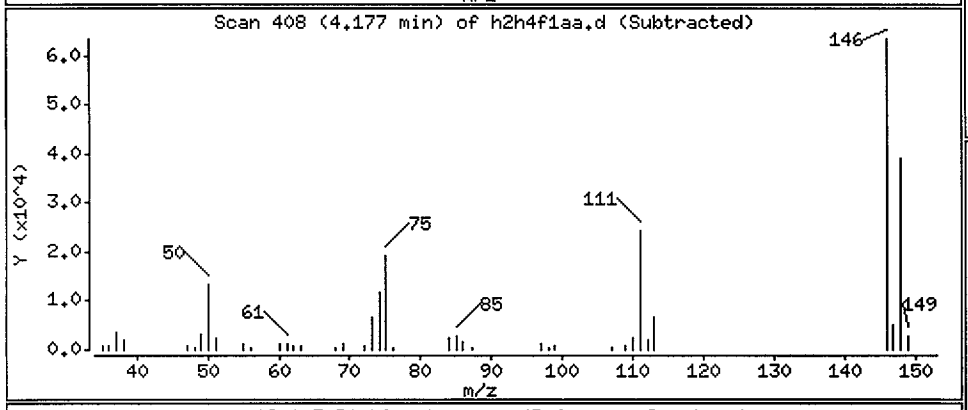
Sample Info: H2H4F1AA,5,0,,,,

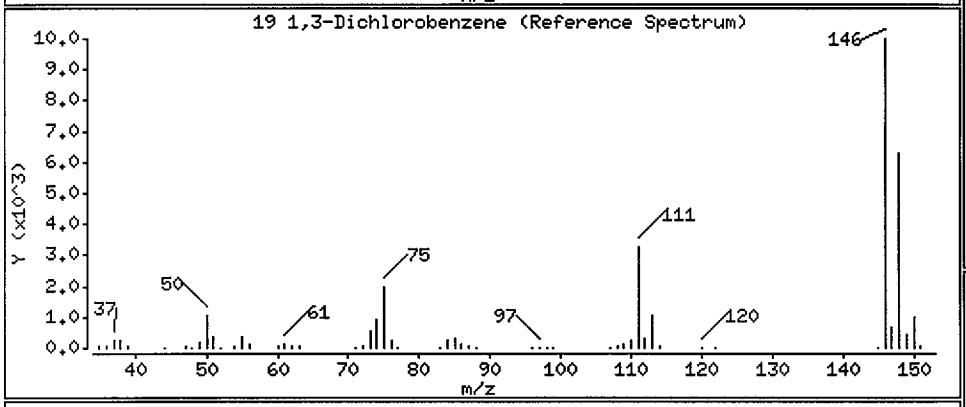
Volume Injected (uL): 1.0 | Operator: 60841

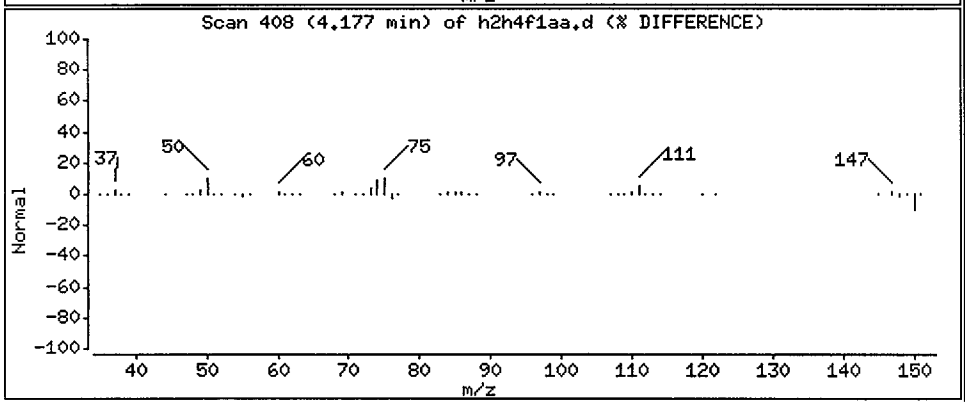
Column phase: ZB-5 | Column diameter: 0.25

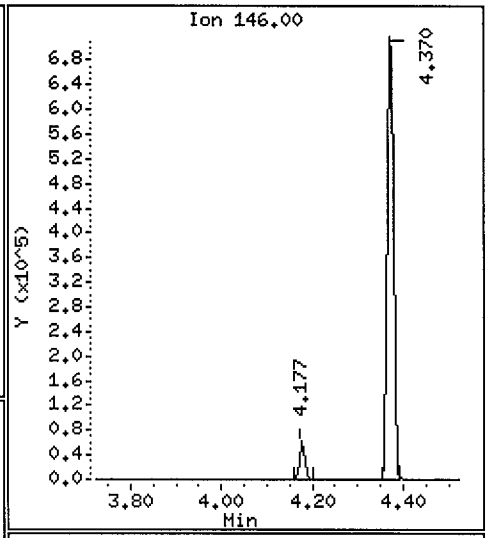
19 1,3-Dichlorobenzene | Concentration: 2120 ug/Kg

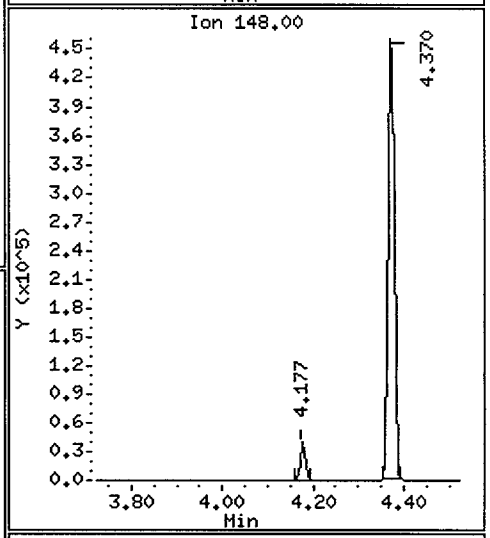


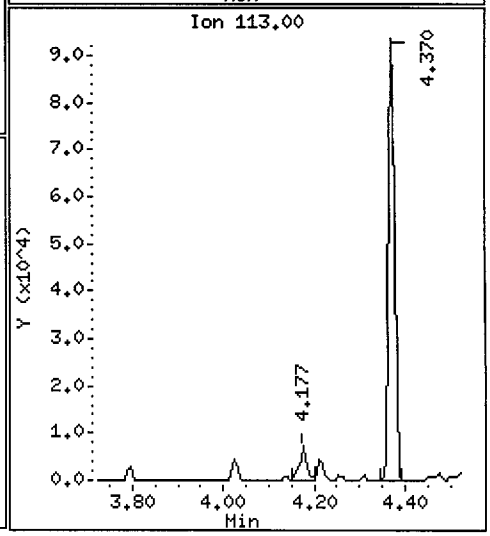












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

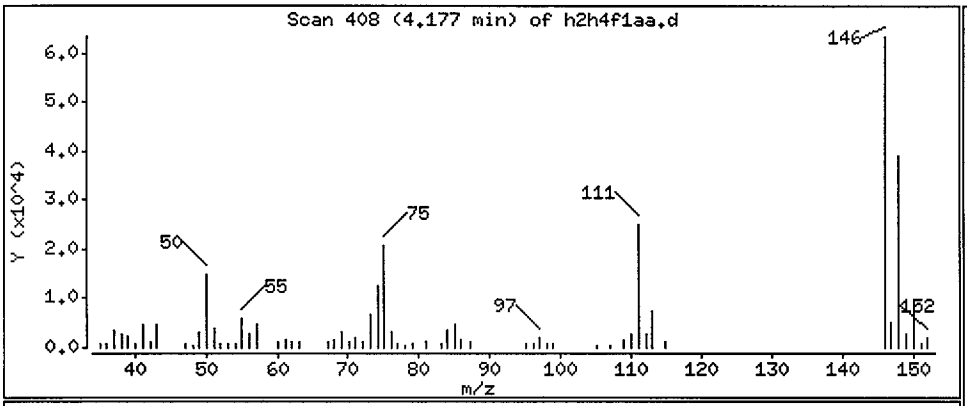
Operator: 60841

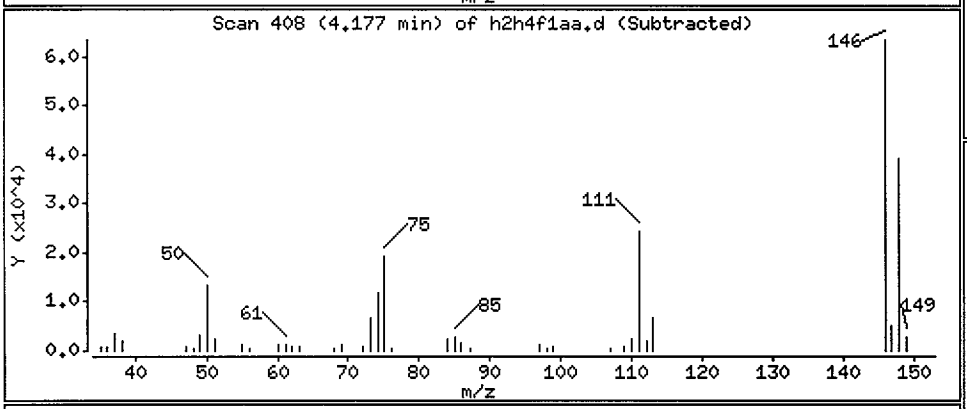
Column phase: ZB-5

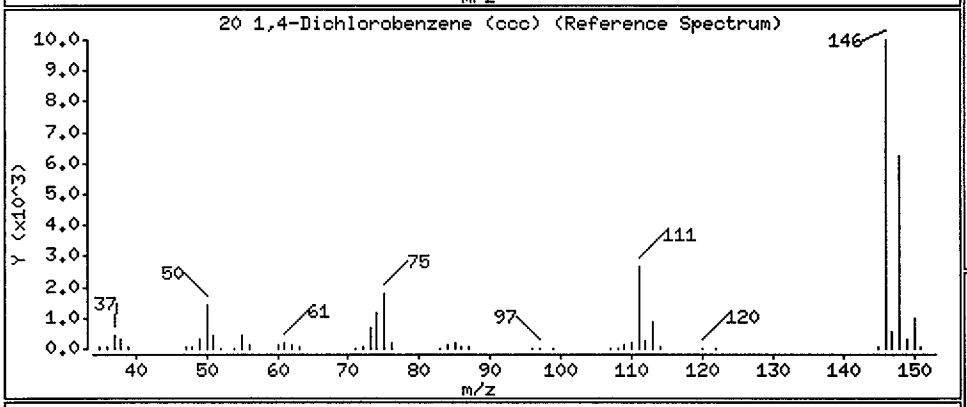
Column diameter: 0.25

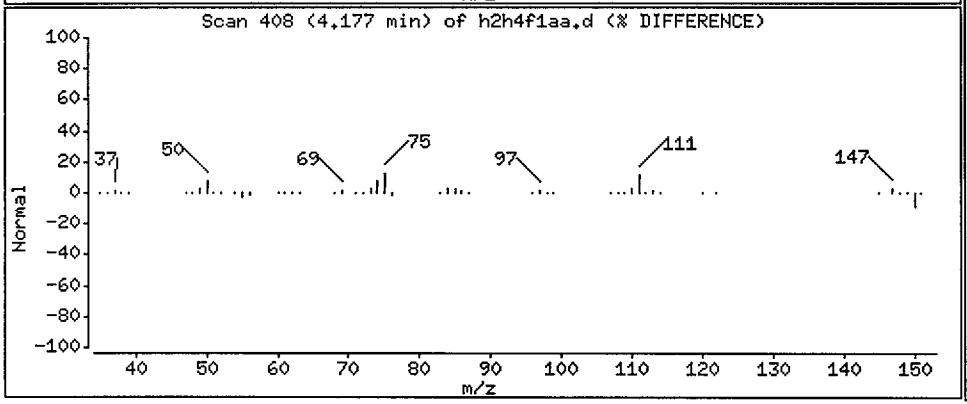
20 1,4-Dichlorobenzene (ccc)

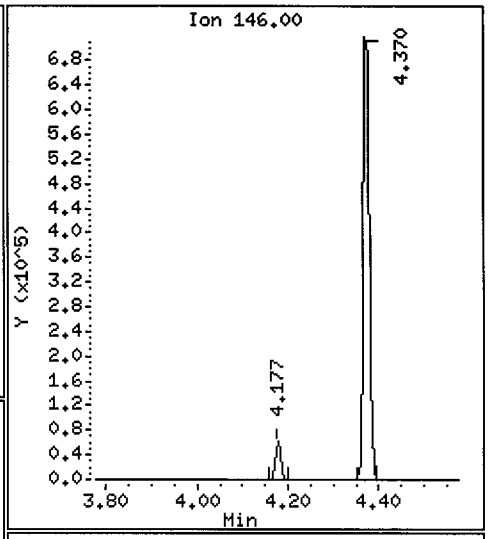
Concentration: 2100 ug/Kg

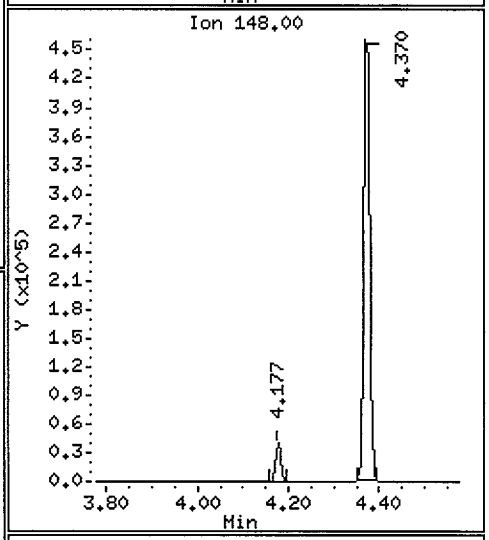


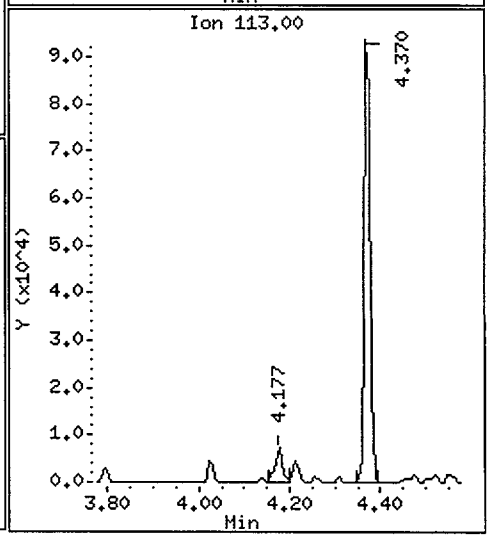












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

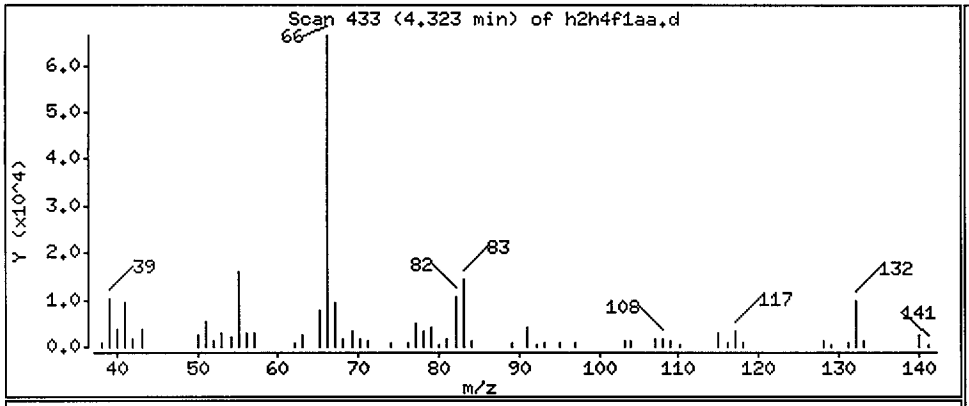
Operator: 60841

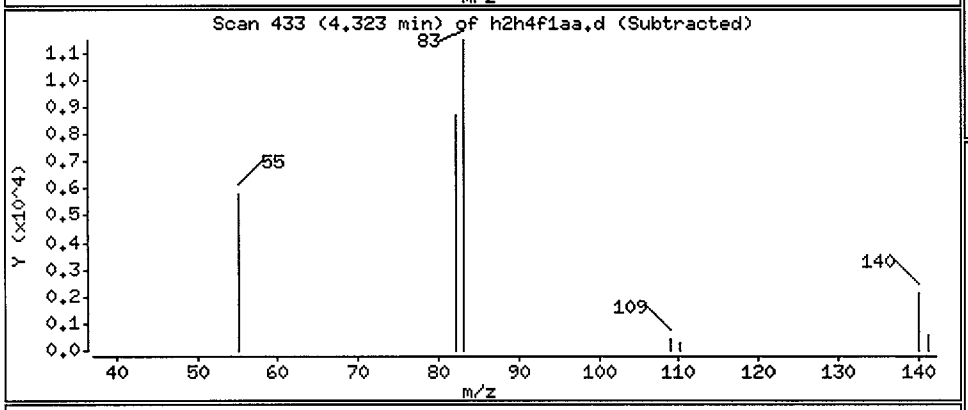
Column phase: ZB-5

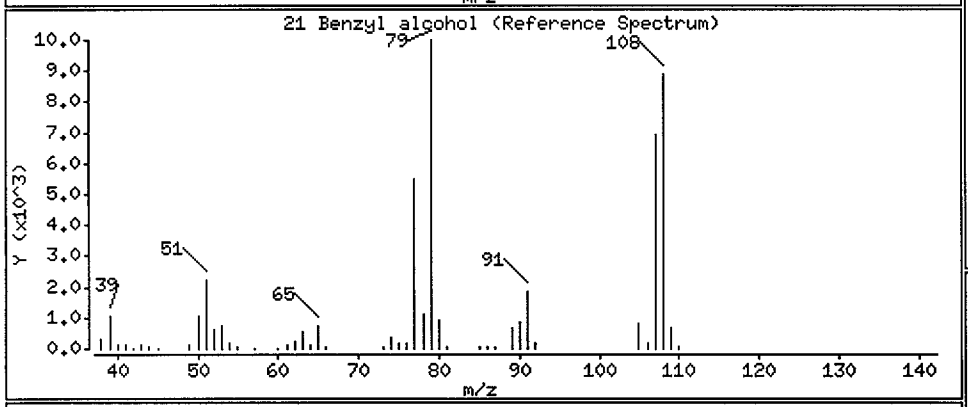
Column diameter: 0.25

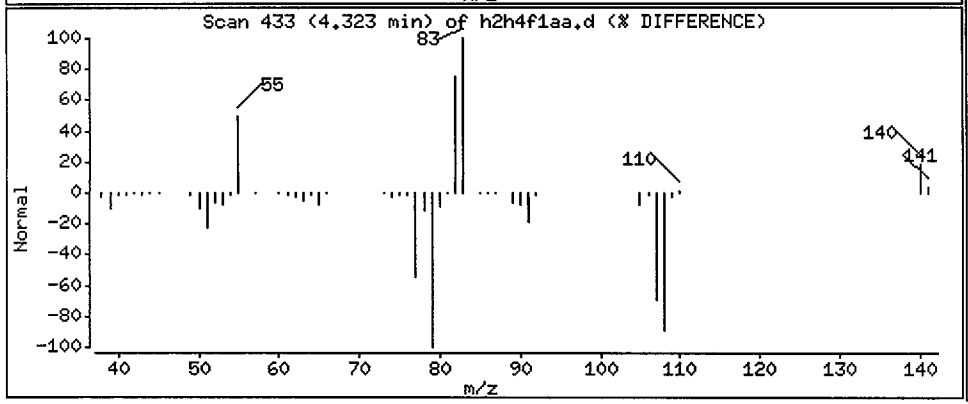
21 Benzyl alcohol

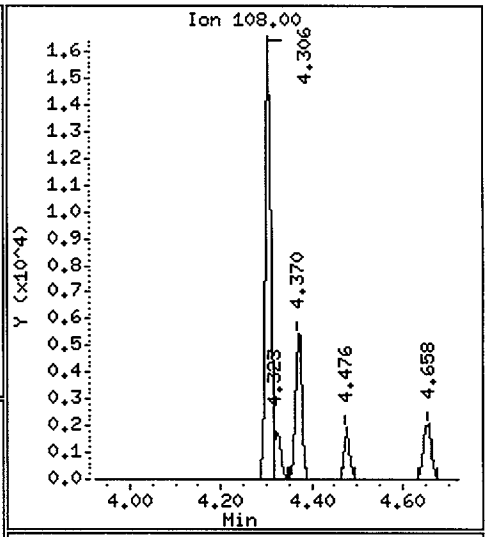
Concentration: 126 ug/Kg

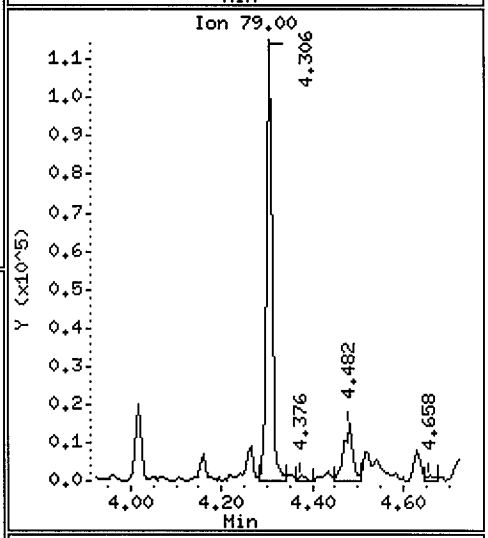


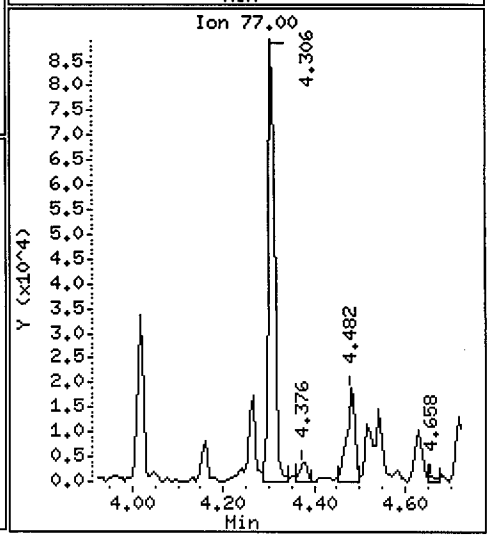












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

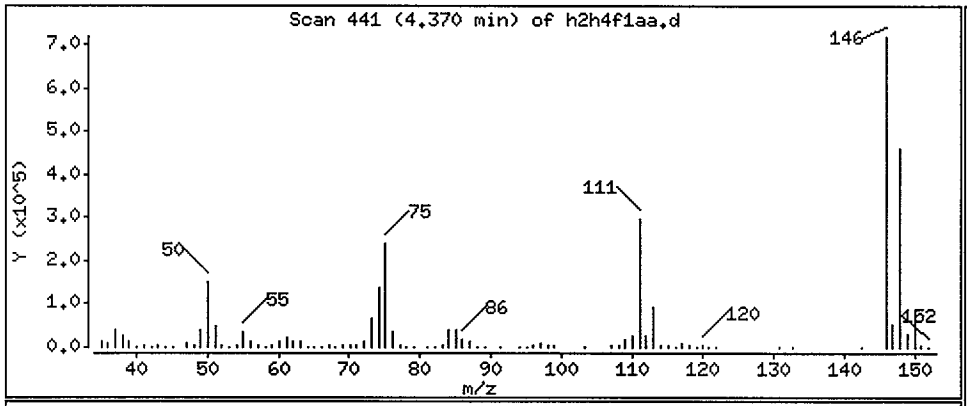
Operator: 60841

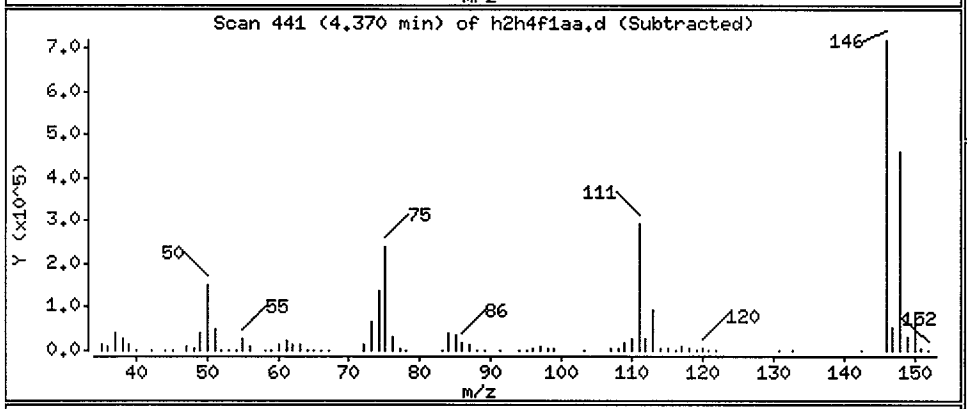
Column phase: ZB-5

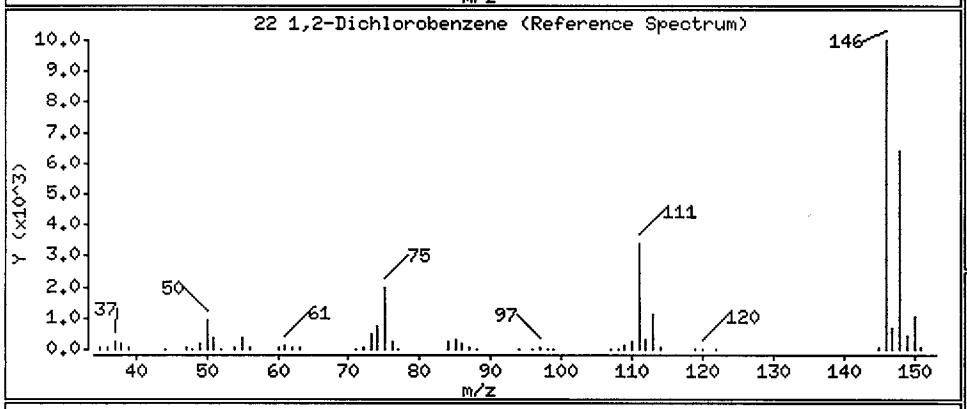
Column diameter: 0.25

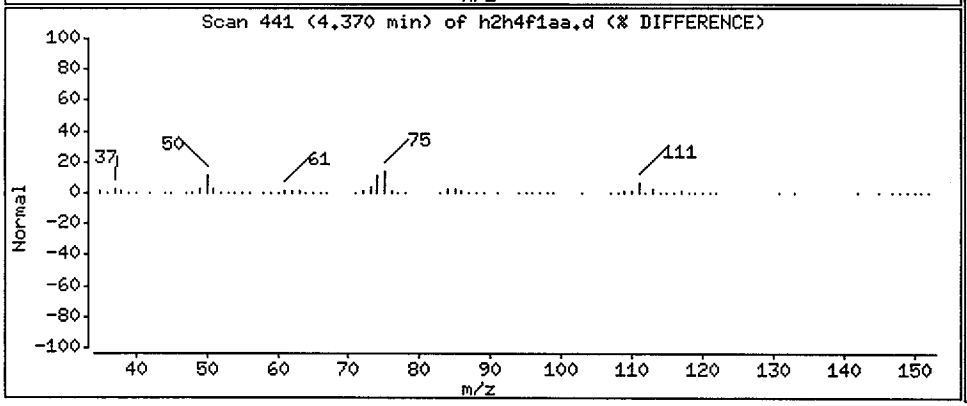
22 1,2-Dichlorobenzene

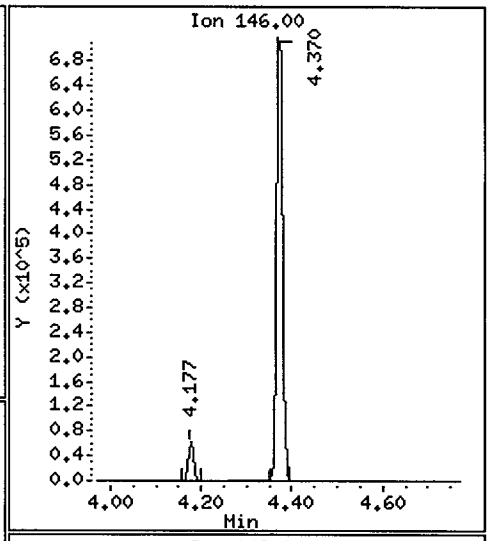
Concentration: 27300 ug/Kg

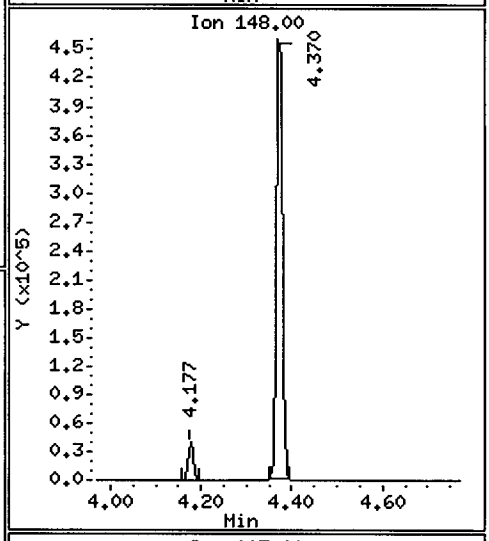


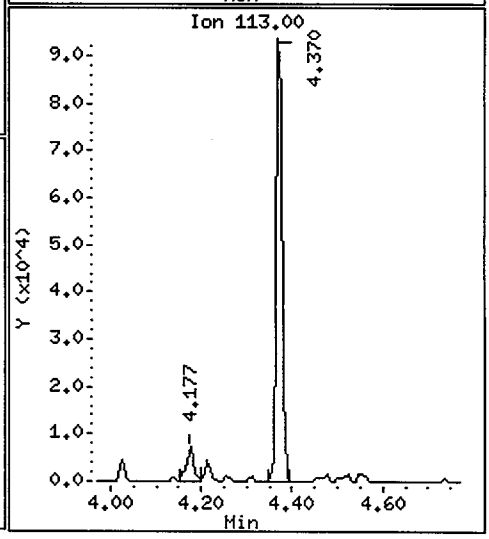












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

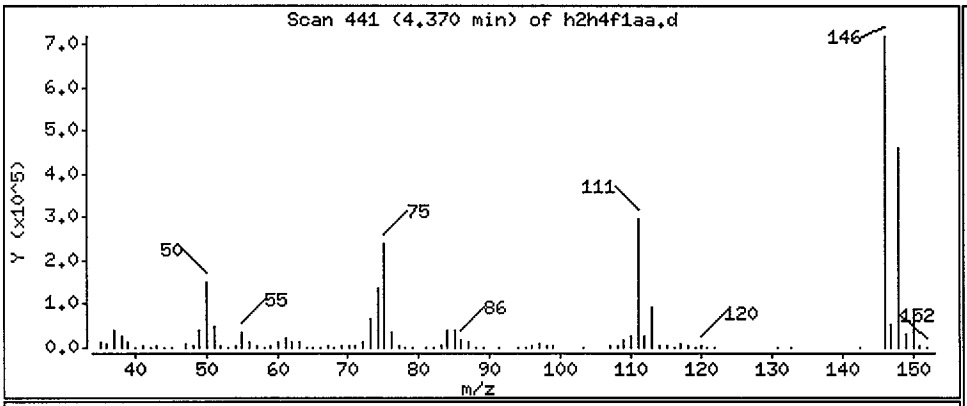
Operator: 60841

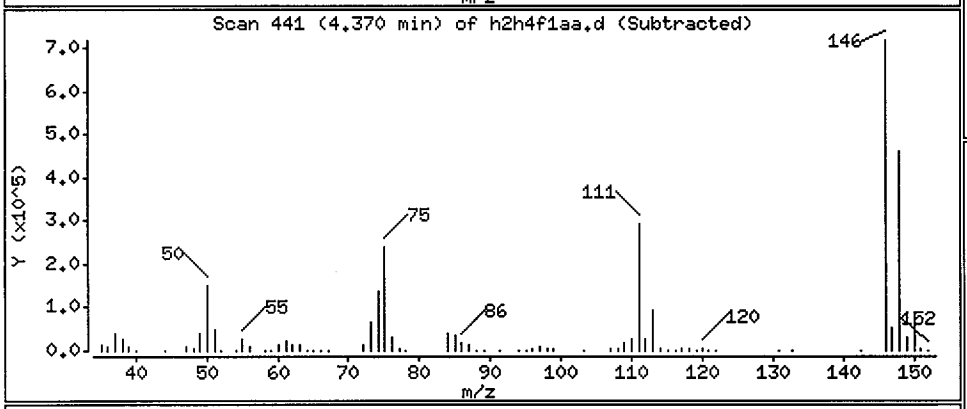
Column phase: ZB-5

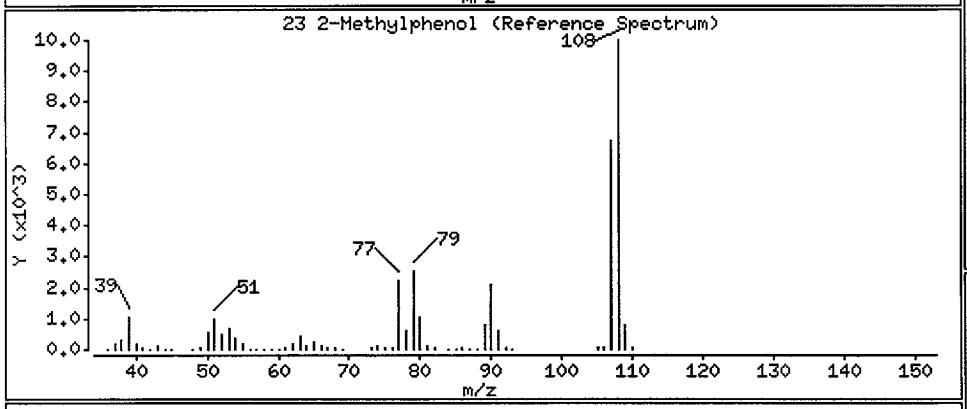
Column diameter: 0.25

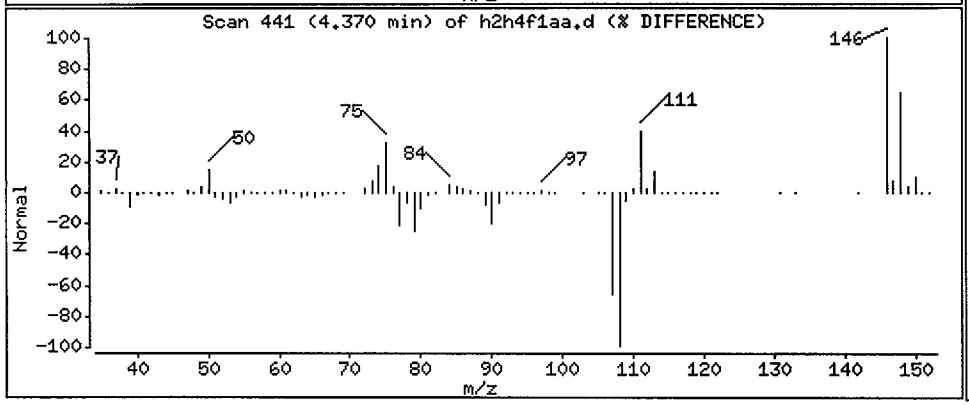
23 2-Methylphenol

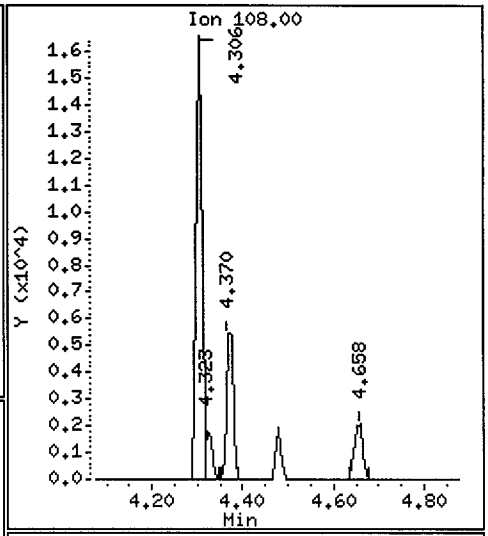
Concentration: 270 ug/Kg

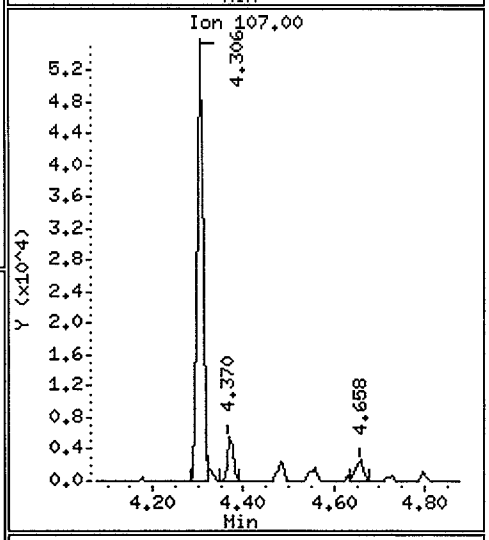


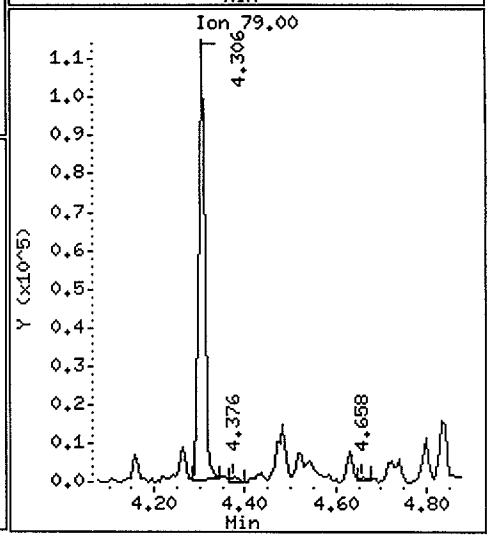












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

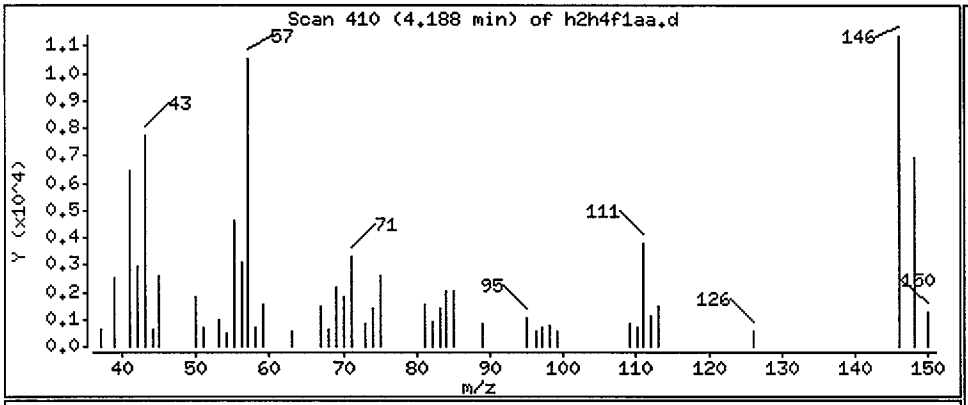
Operator: 60841

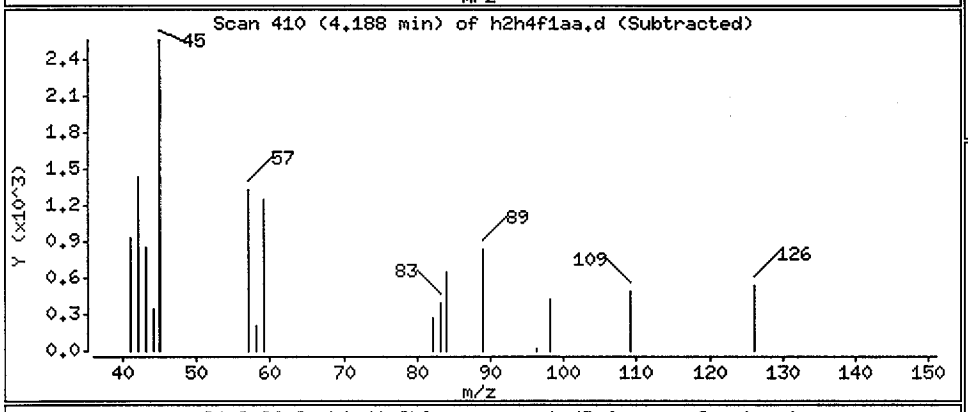
Column phase: ZB-5

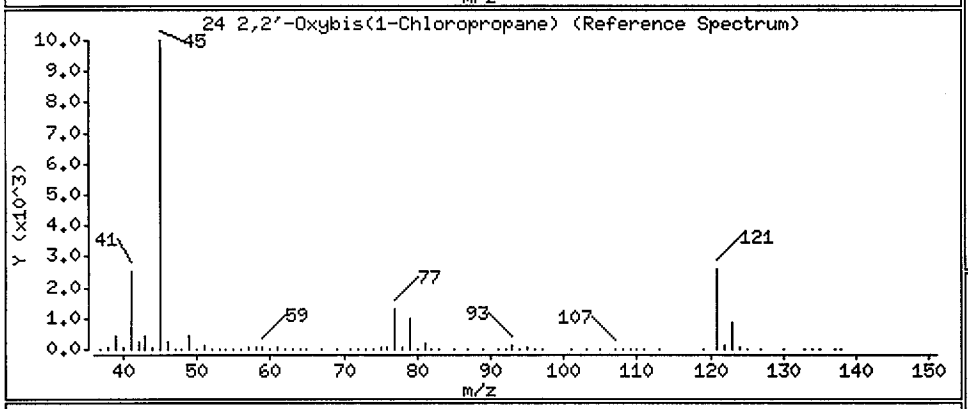
Column diameter: 0.25

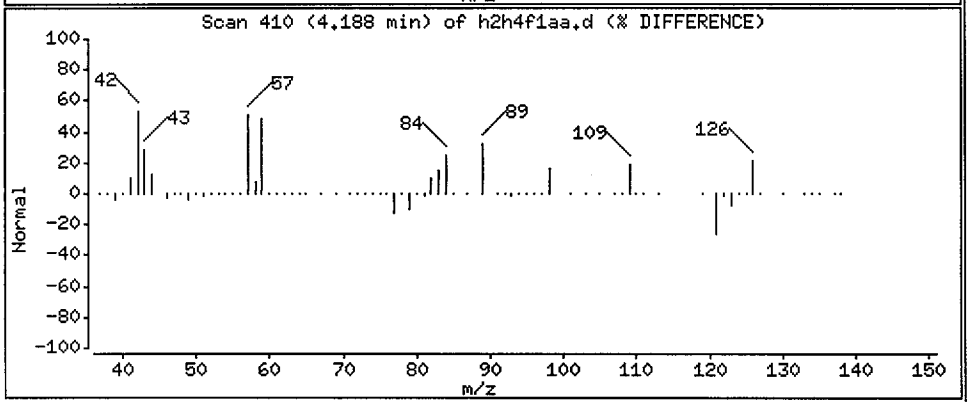
24 2,2'-Oxybis(1-Chloropropane)

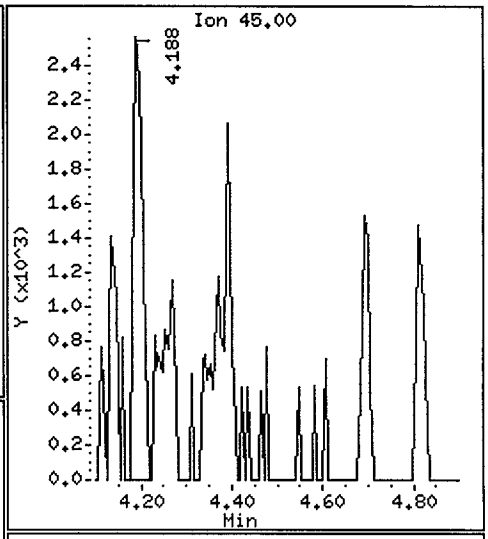
Concentration: 101 ug/Kg

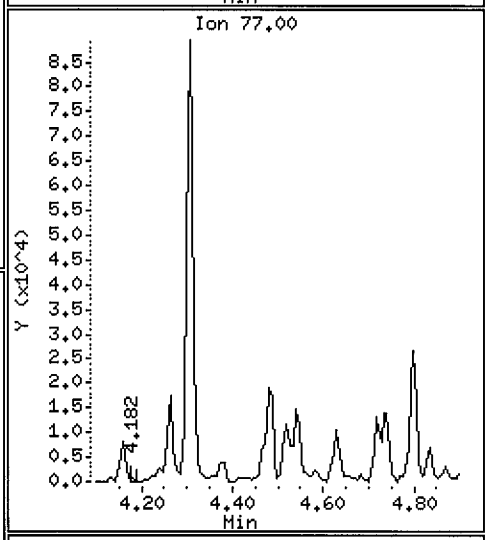


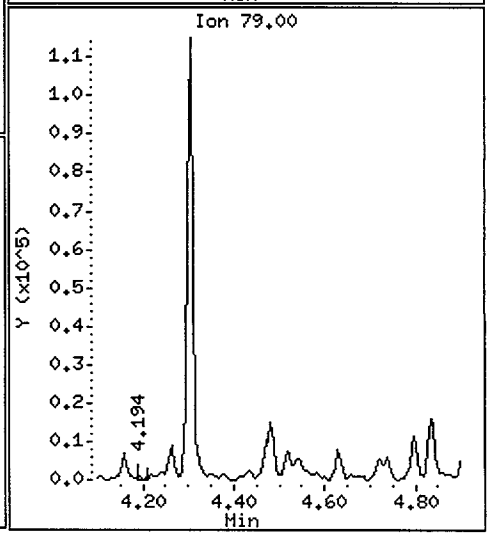












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

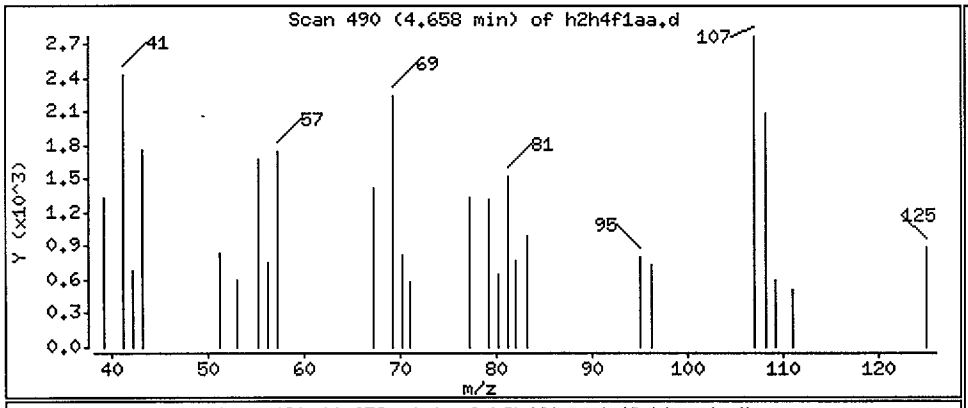
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

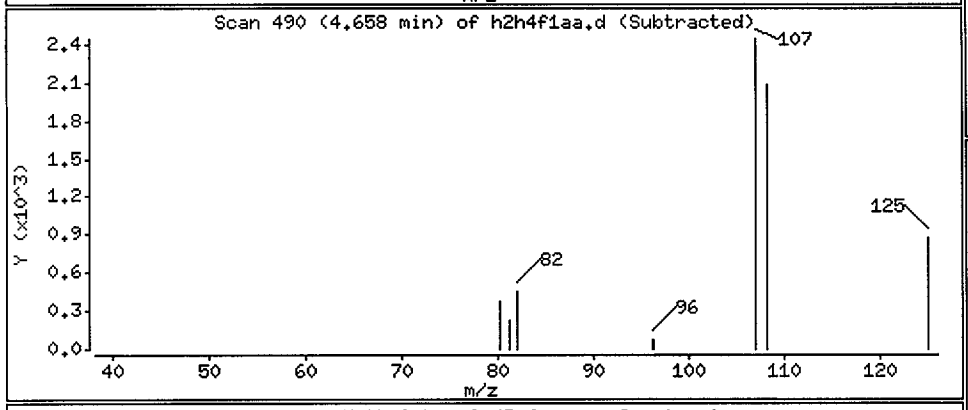
Sample Info: H2H4F1AA,5,0,,,,

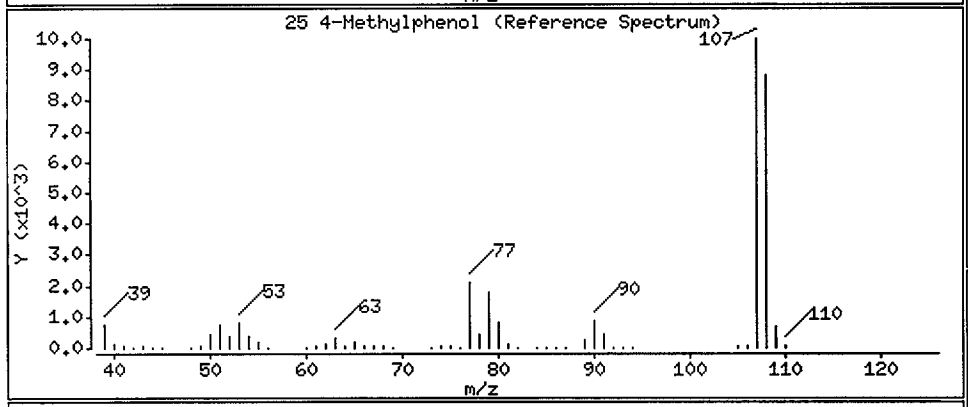
Volume Injected (uL): 1.0 | Operator: 60841

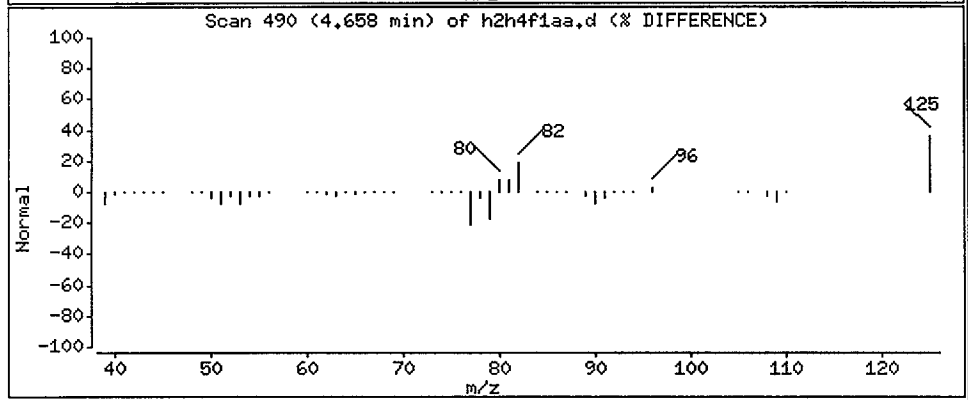
Column phase: ZB-5 | Column diameter: 0.25

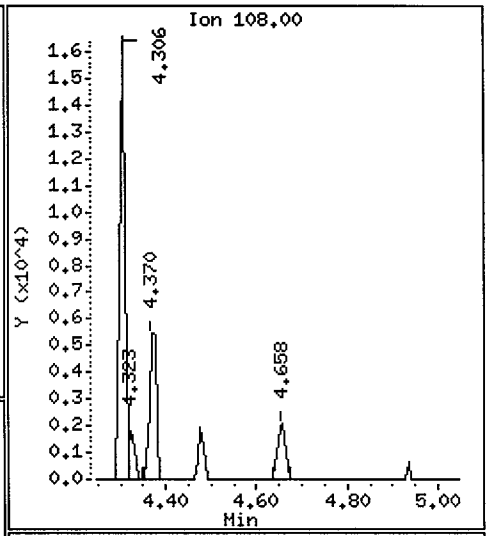
25 4-Methylphenol | Concentration: 122 ug/Kg

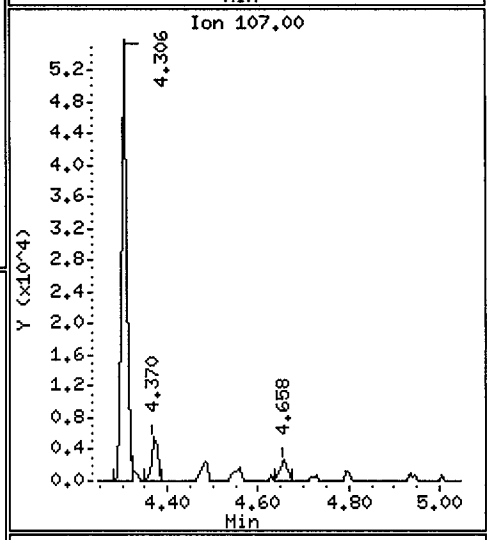


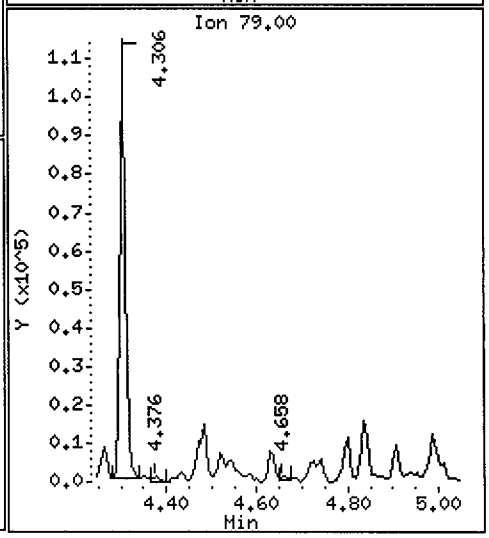












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

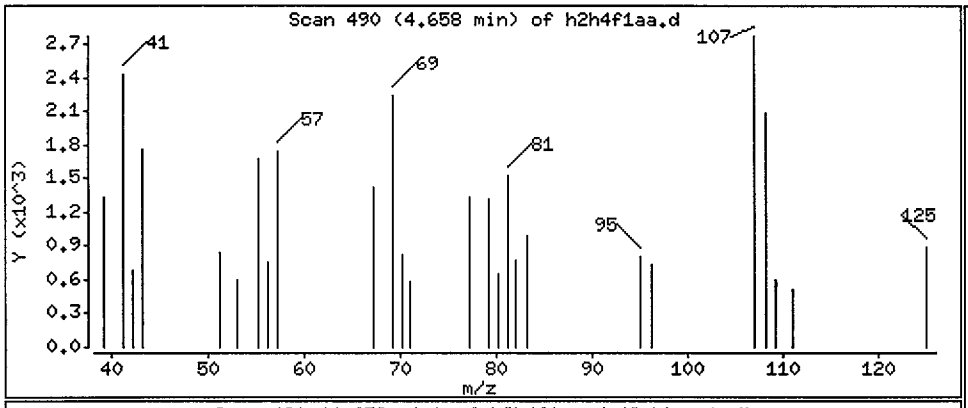
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

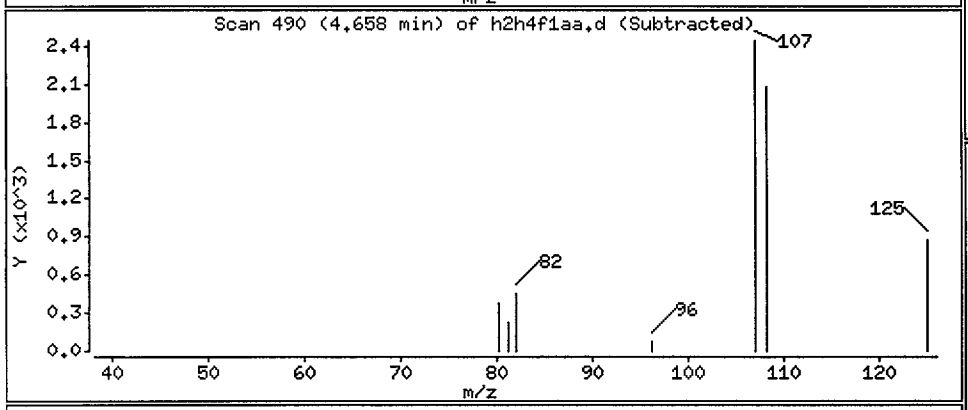
Sample Info: H2H4F1AA,5,0,,,,

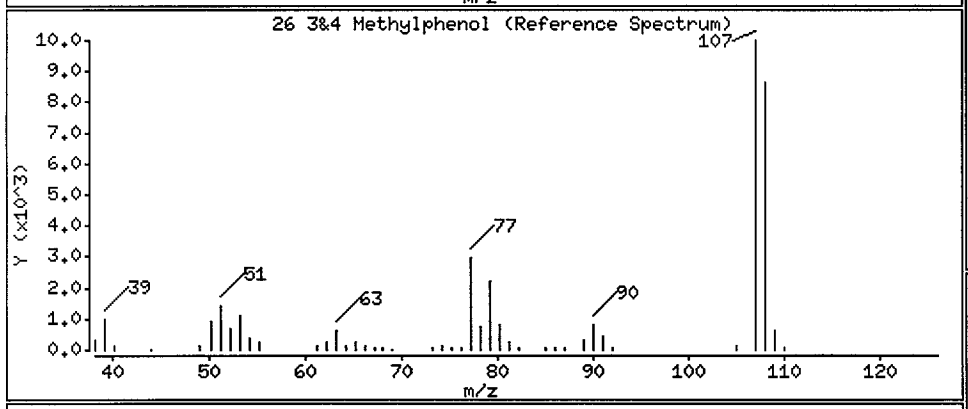
Volume Injected (uL): 1.0 | Operator: 60841

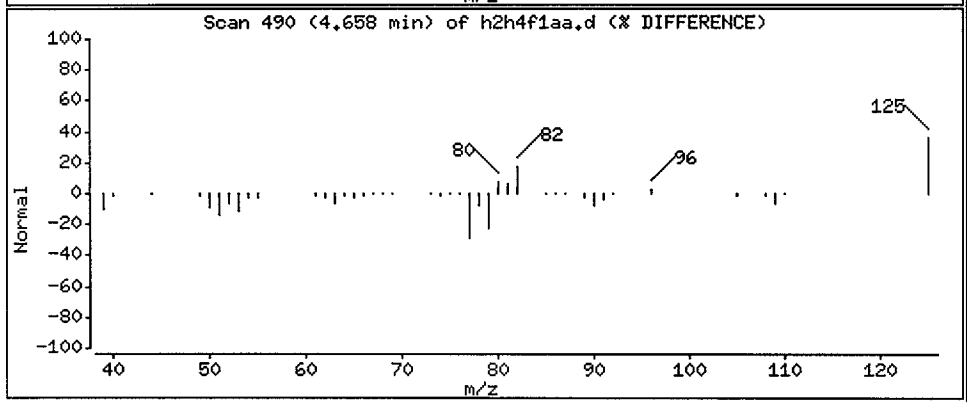
Column phase: ZB-5 | Column diameter: 0.25

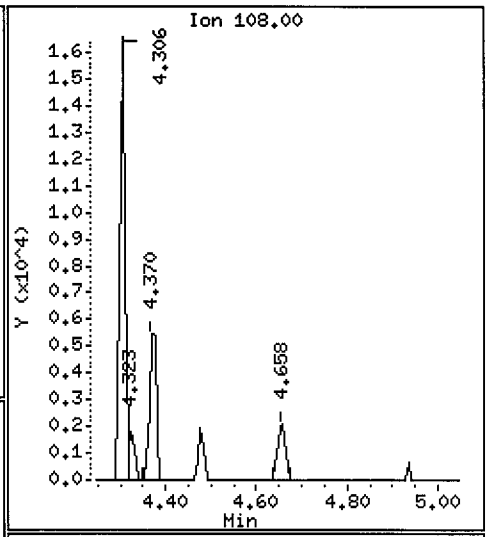
26 3&4 Methylphenol | Concentration: 122 ug/Kg

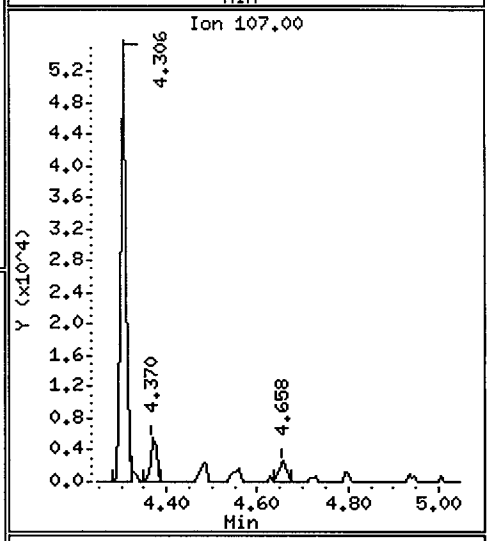


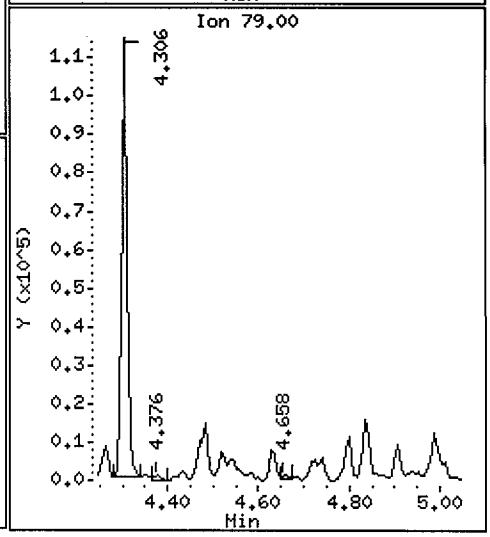












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

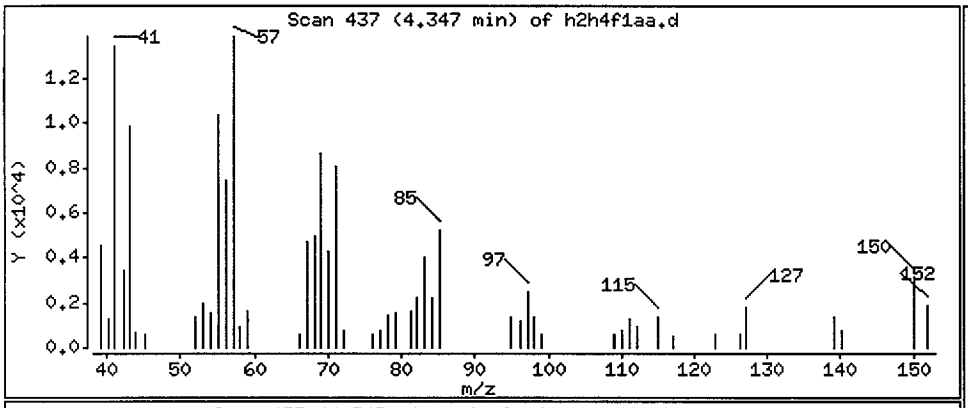
Operator: 60841

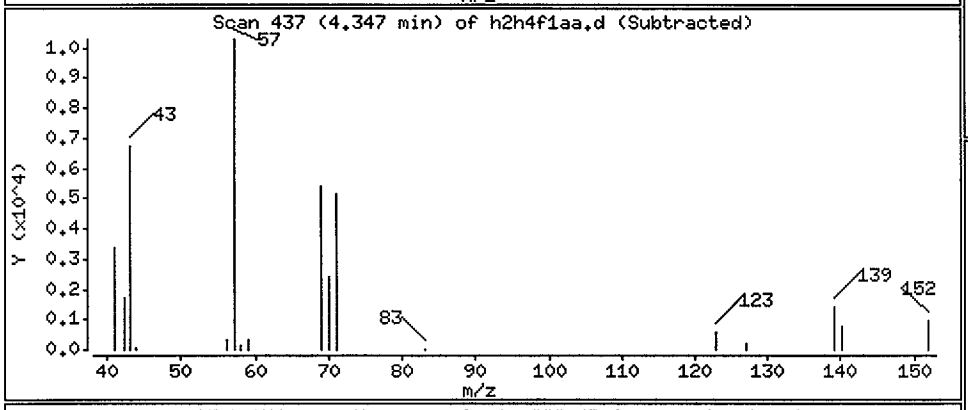
Column phase: ZB-5

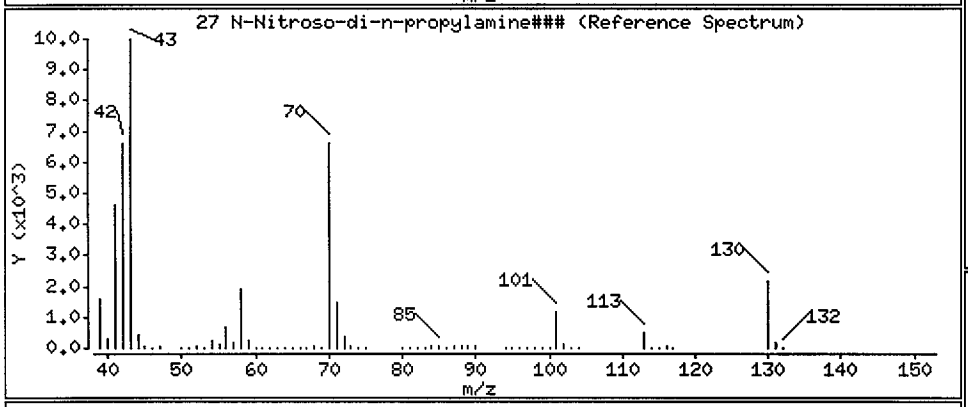
Column diameter: 0.25

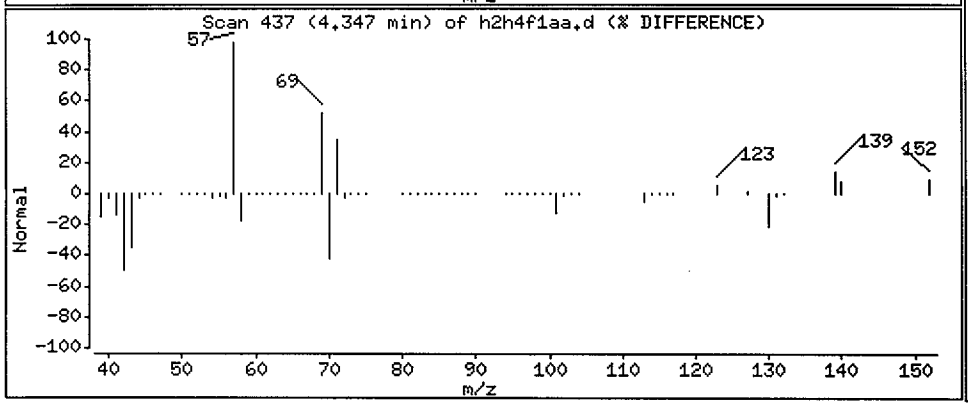
27 N-Nitroso-di-n-propylamine###

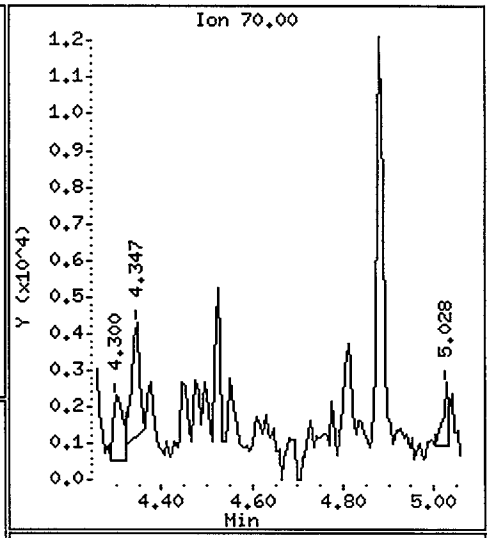
Concentration: 233 ug/Kg

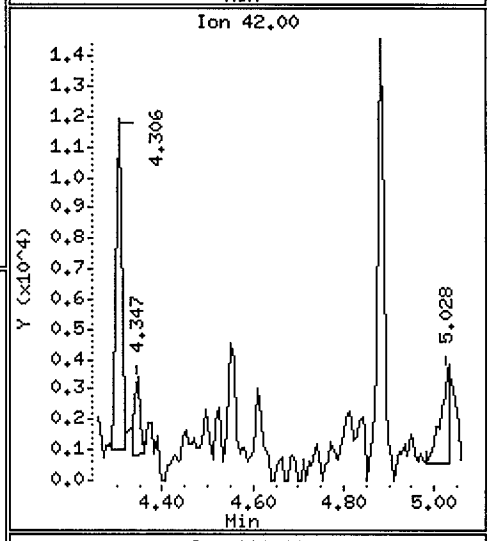


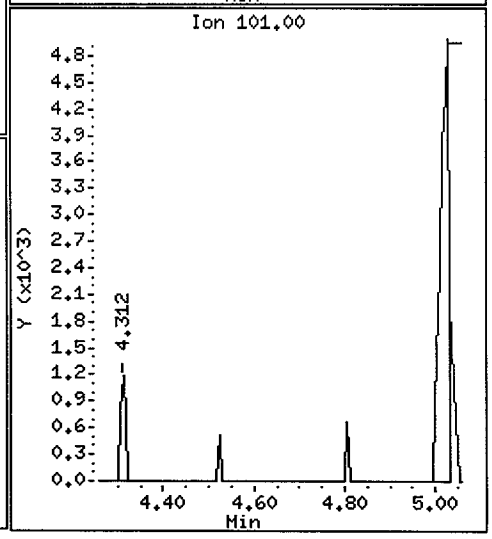












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

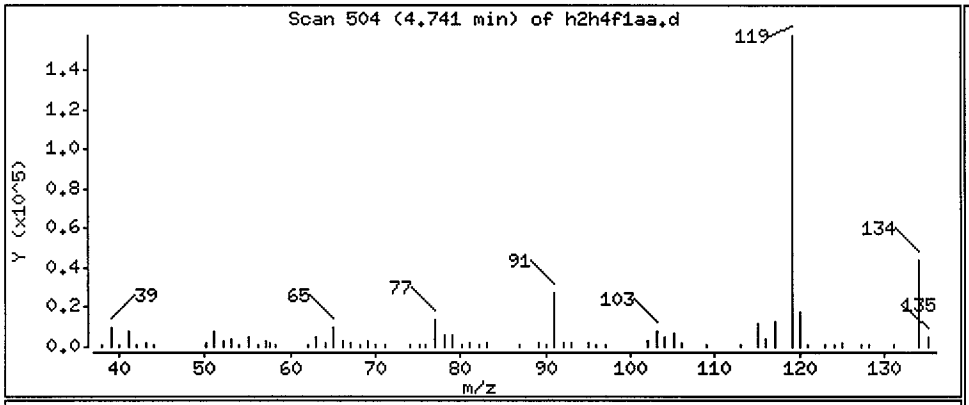
Operator: 60841

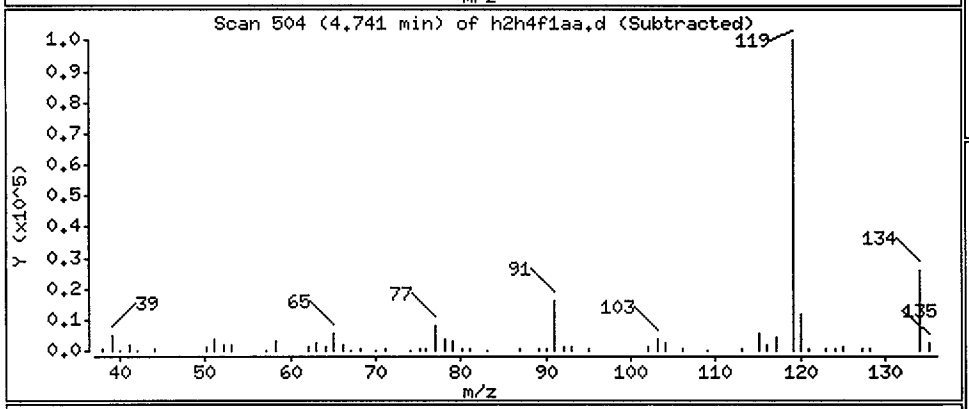
Column phase: ZB-5

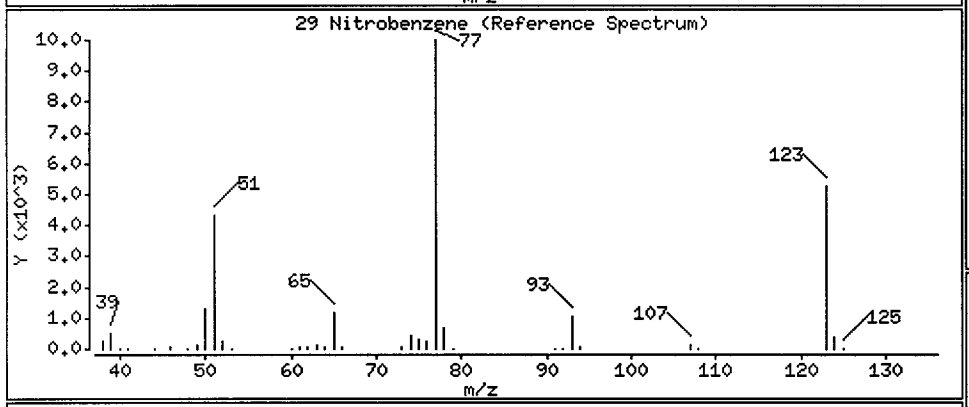
Column diameter: 0.25

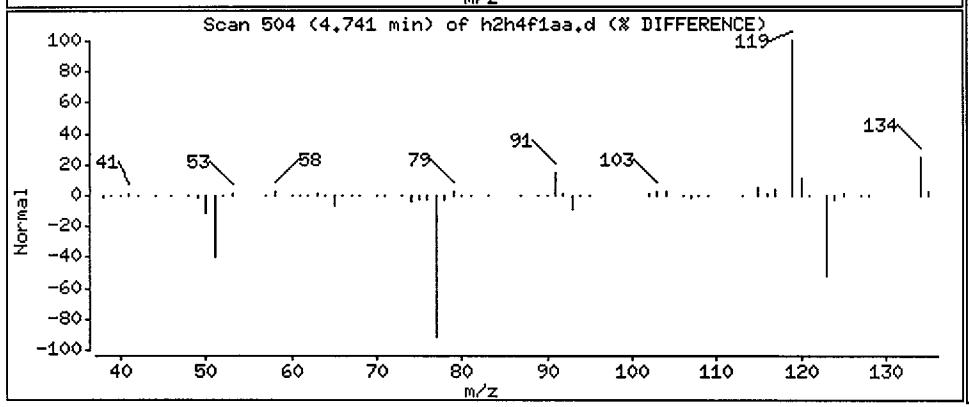
29 Nitrobenzene

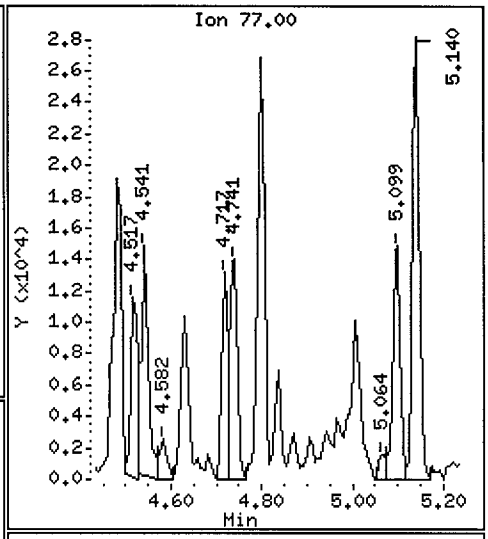
Concentration: 697 ug/Kg

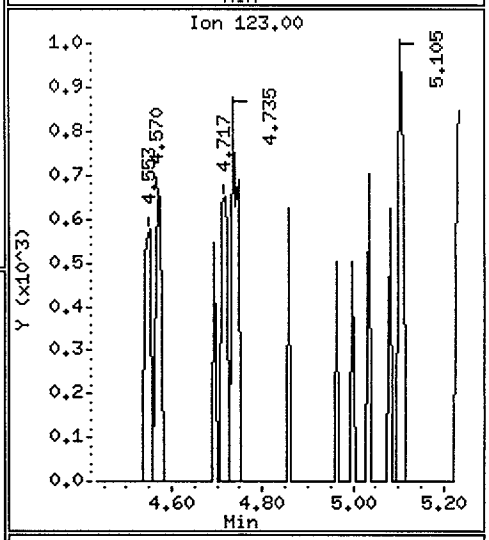


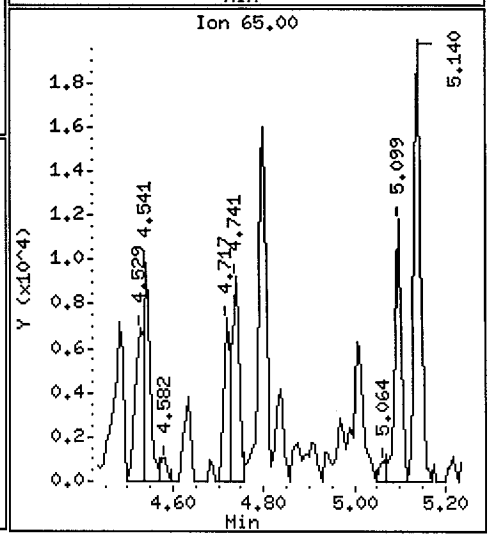












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

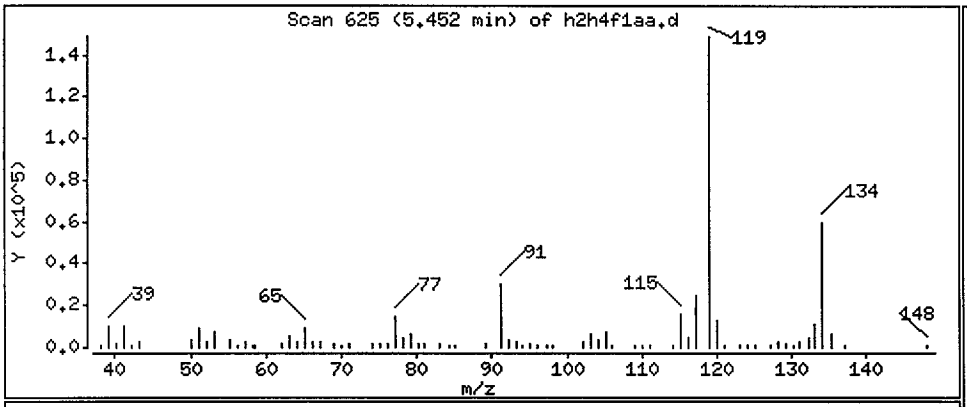
Operator: 60841

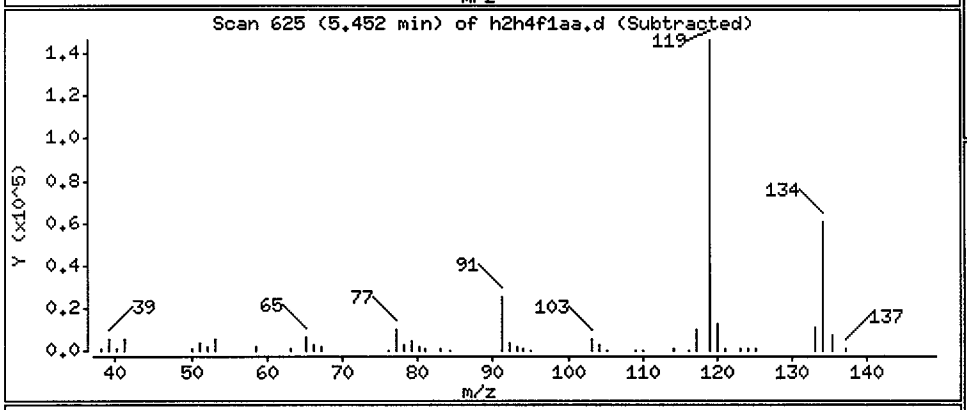
Column phase: ZB-5

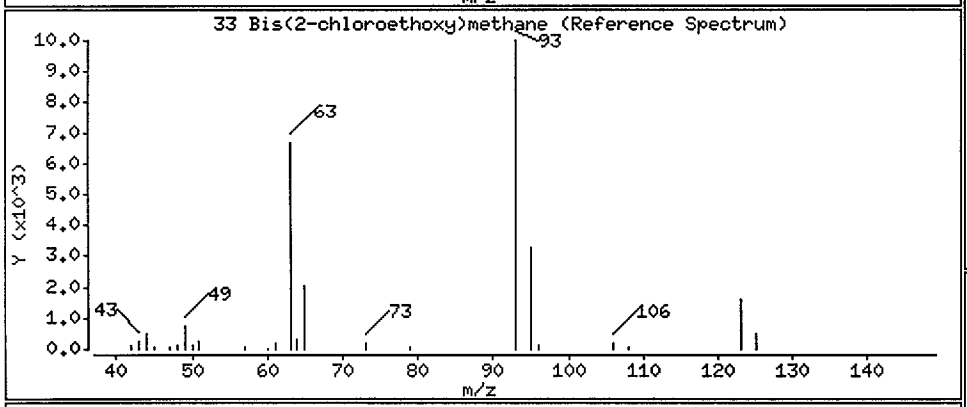
Column diameter: 0.25

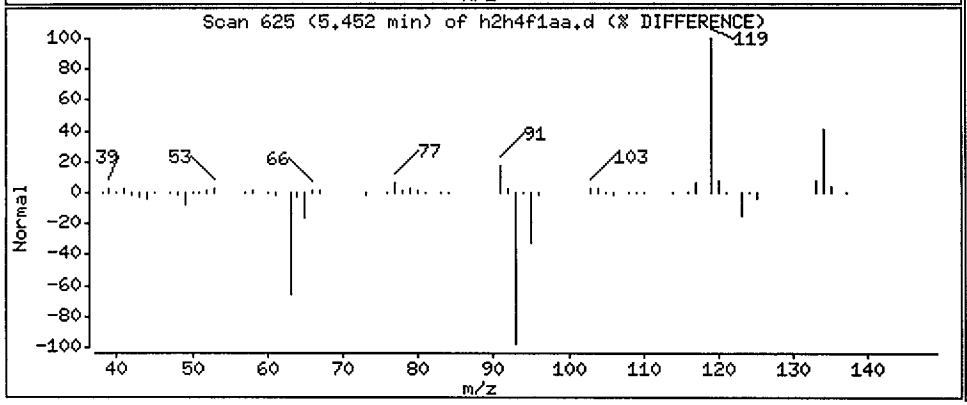
33 Bis(2-chloroethoxy)methane

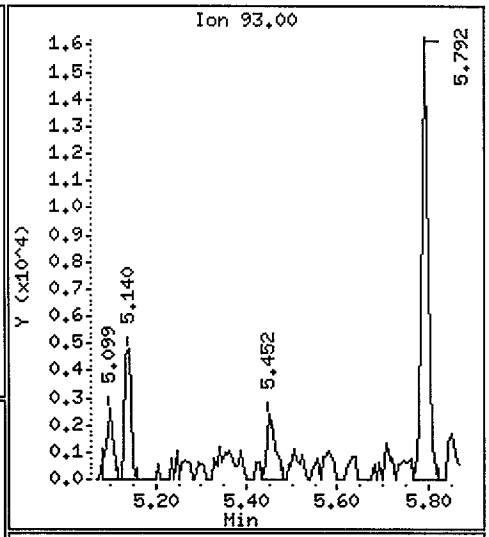
Concentration: 130 ug/Kg

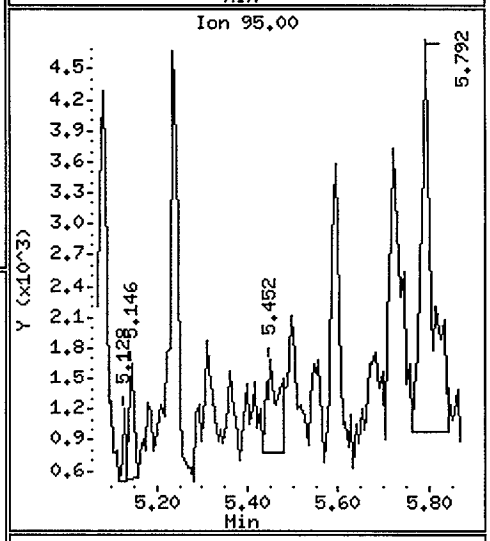


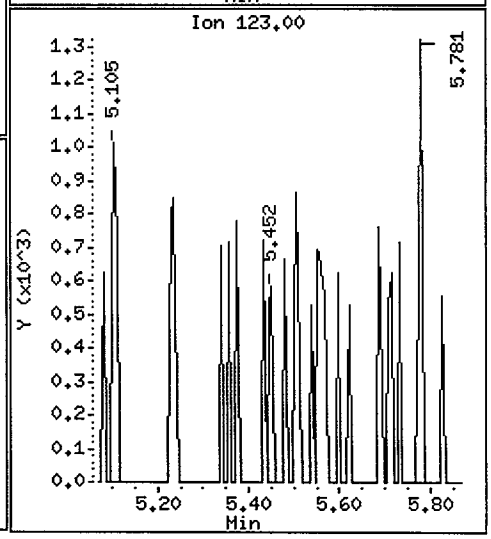












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

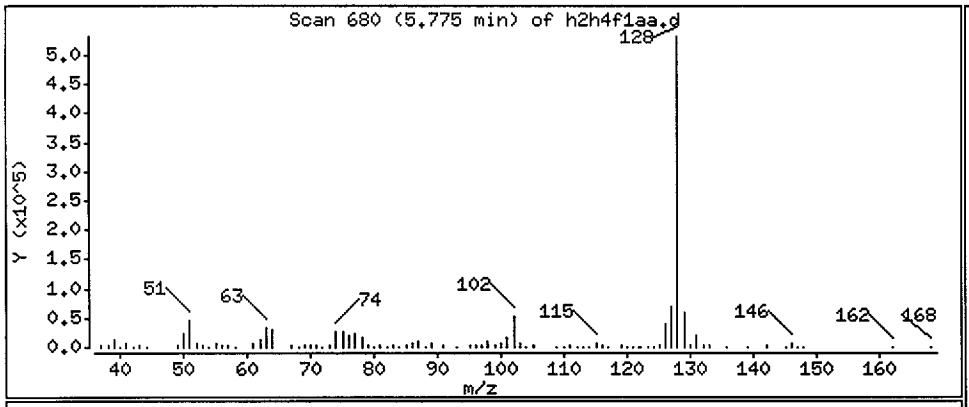
Operator: 60841

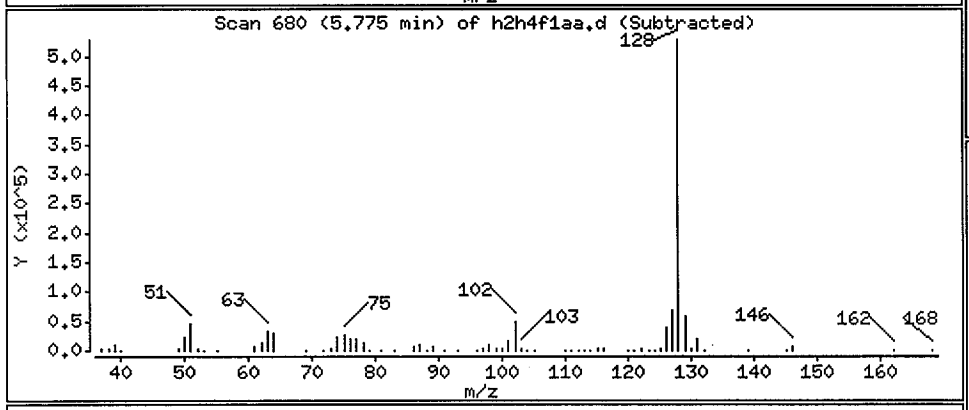
Column phase: ZB-5

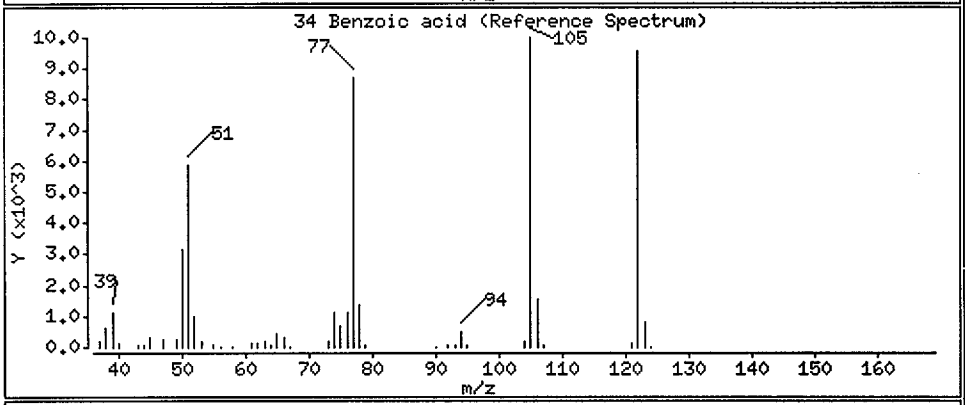
Column diameter: 0.25

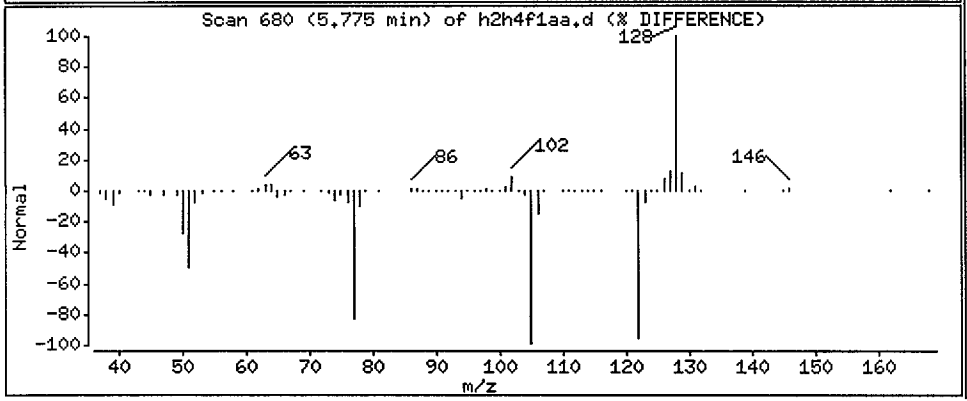
34 Benzoic acid

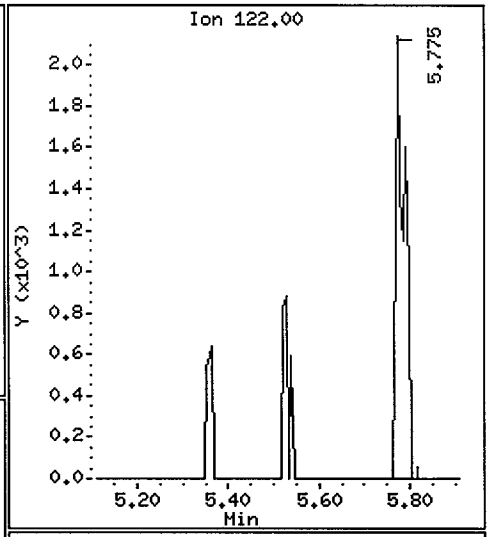
Concentration: 248 ug/Kg

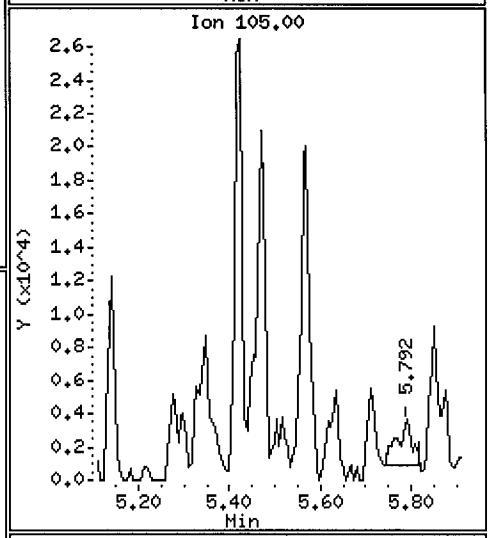


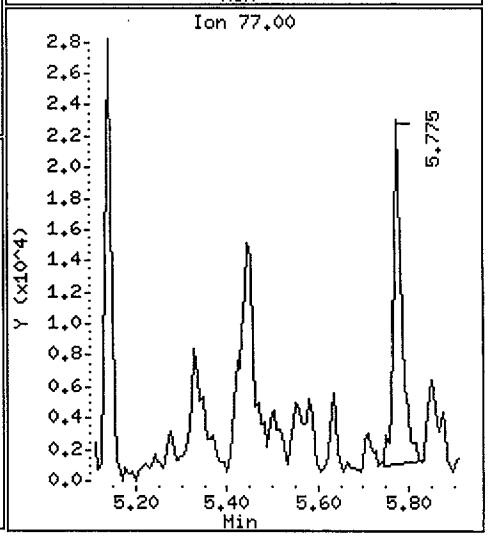












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

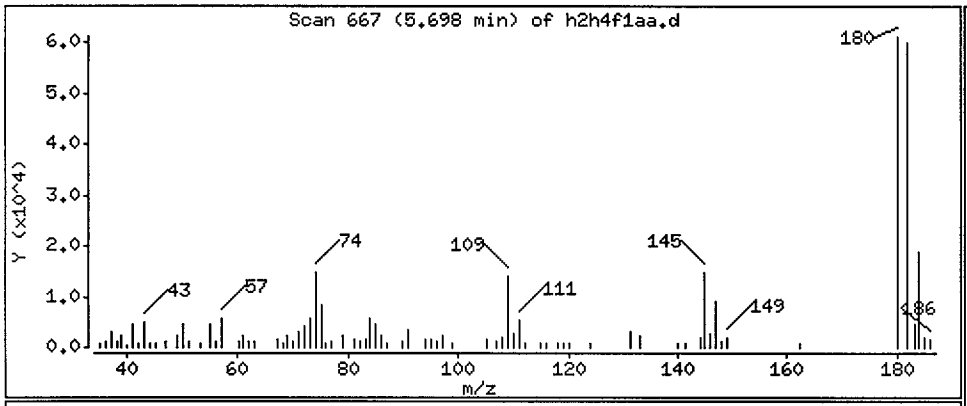
Operator: 60841

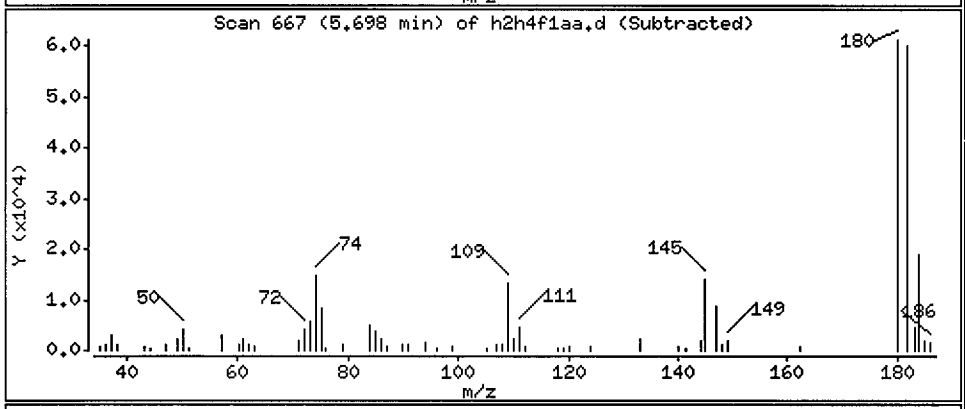
Column phase: ZB-5

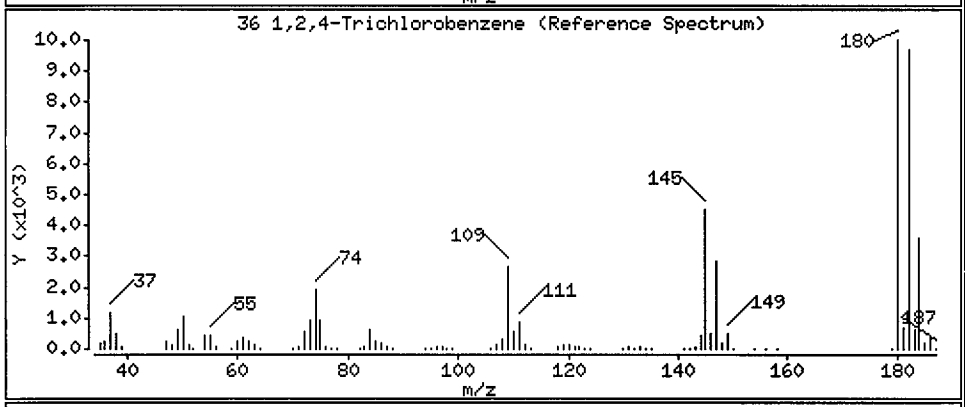
Column diameter: 0.25

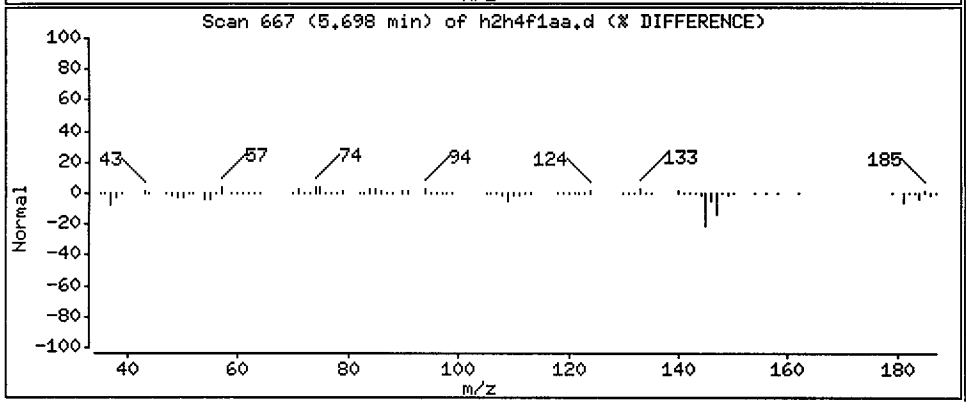
36 1,2,4-Trichlorobenzene

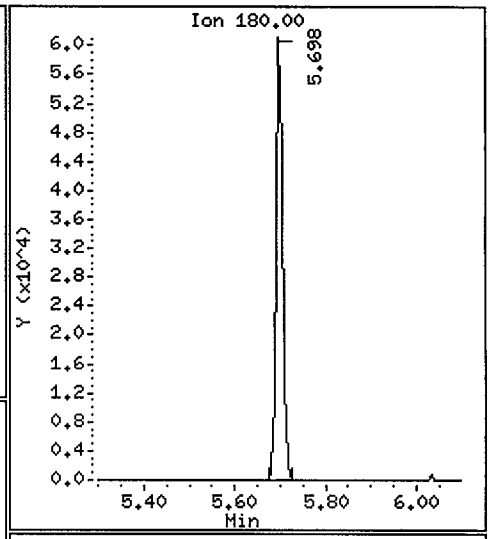
Concentration: 2950 ug/Kg

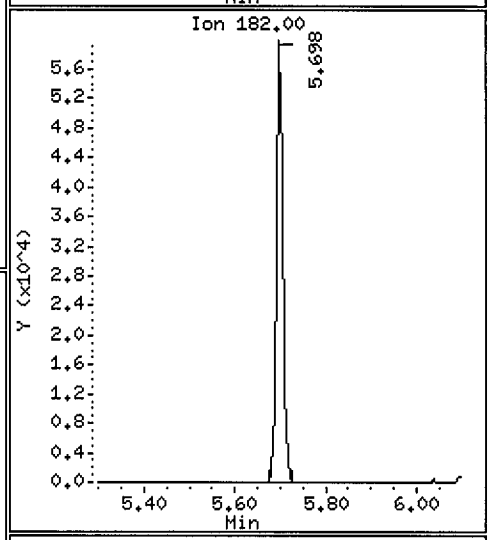


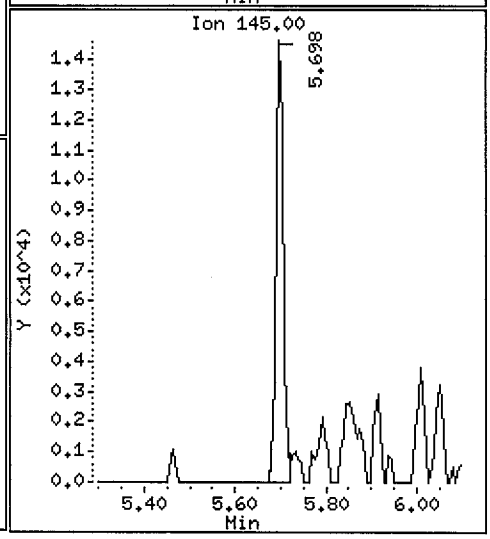












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

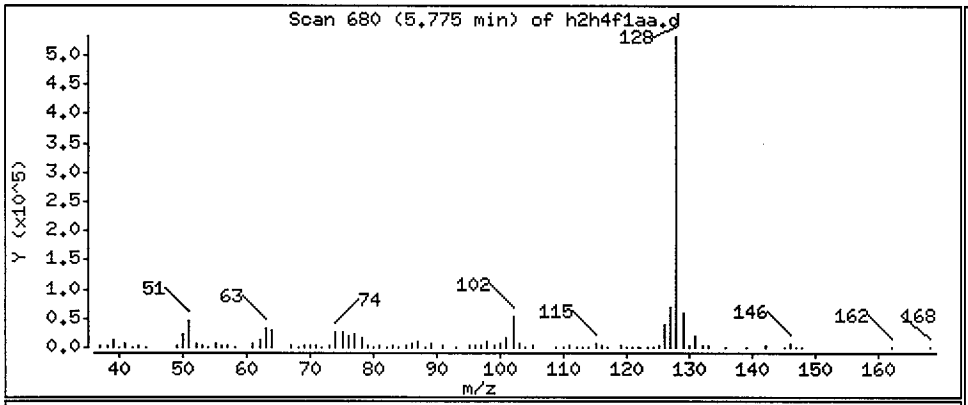
Operator: 60841

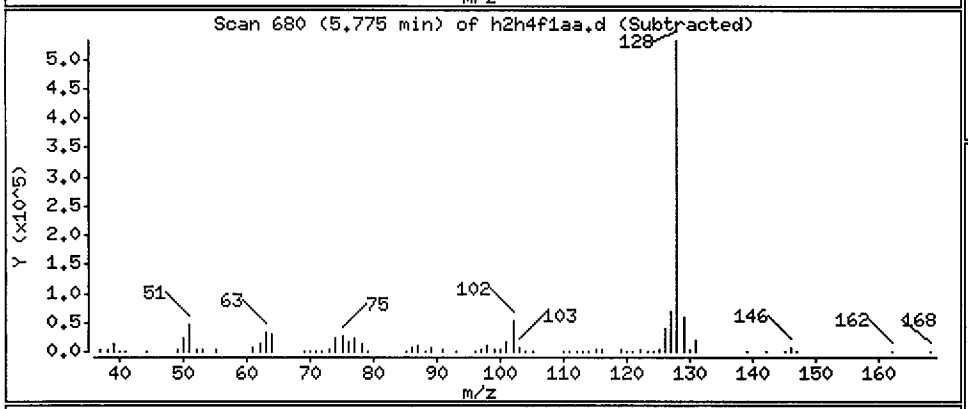
Column phase: ZB-5

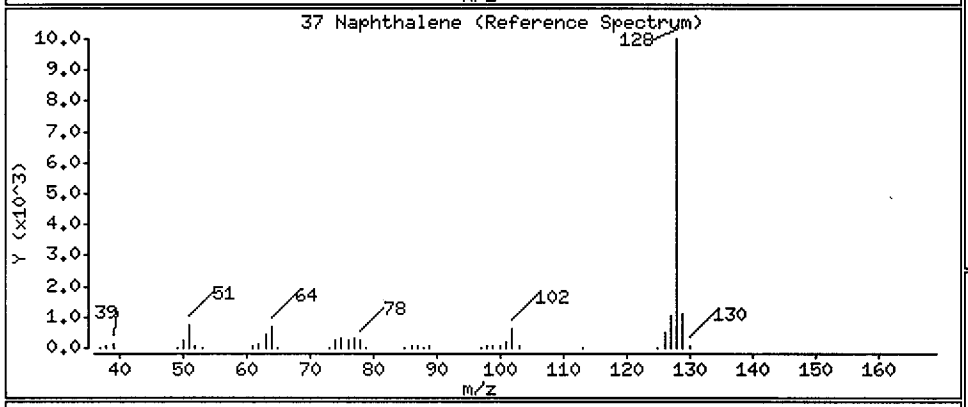
Column diameter: 0.25

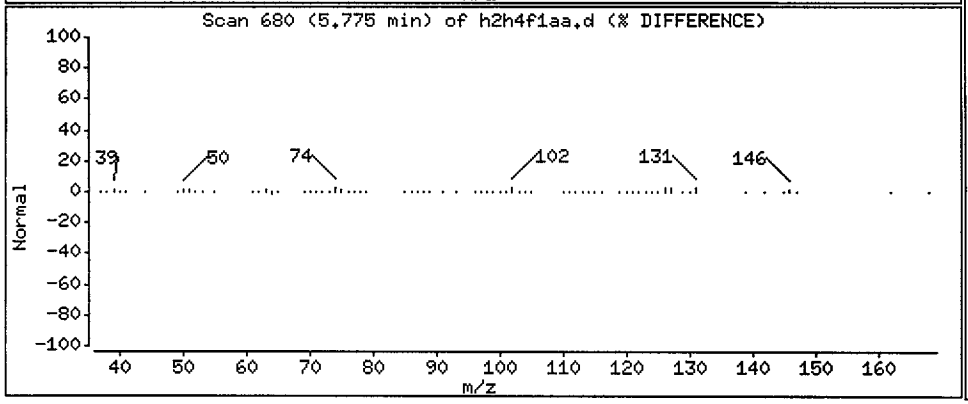
37 Naphthalene

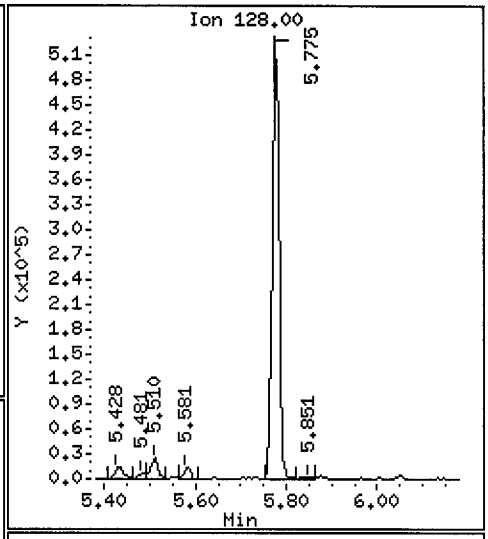
Concentration: 8660 ug/Kg

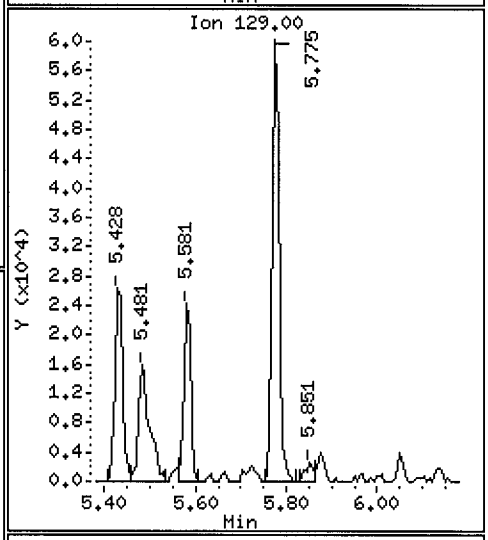


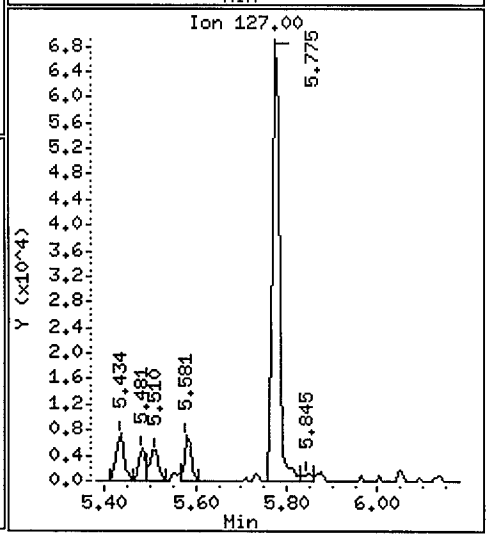












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

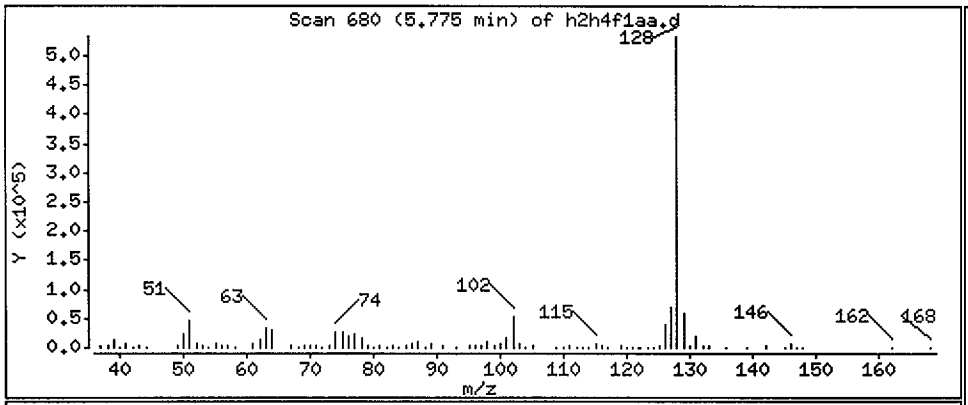
Operator: 60841

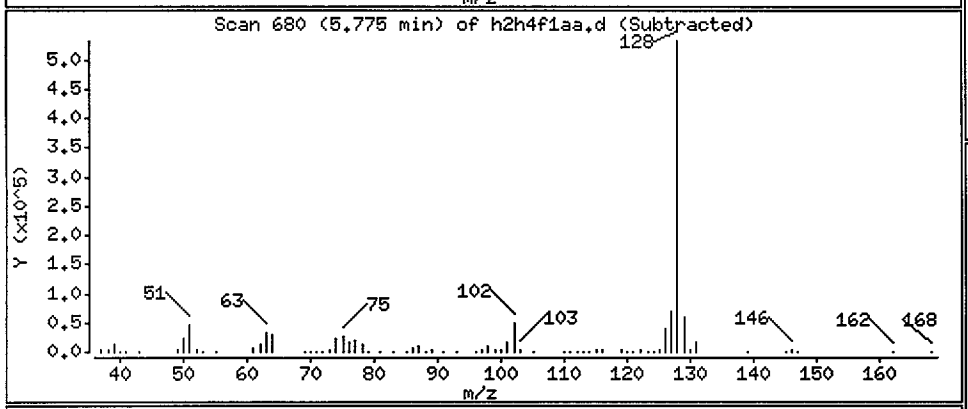
Column phase: ZB-5

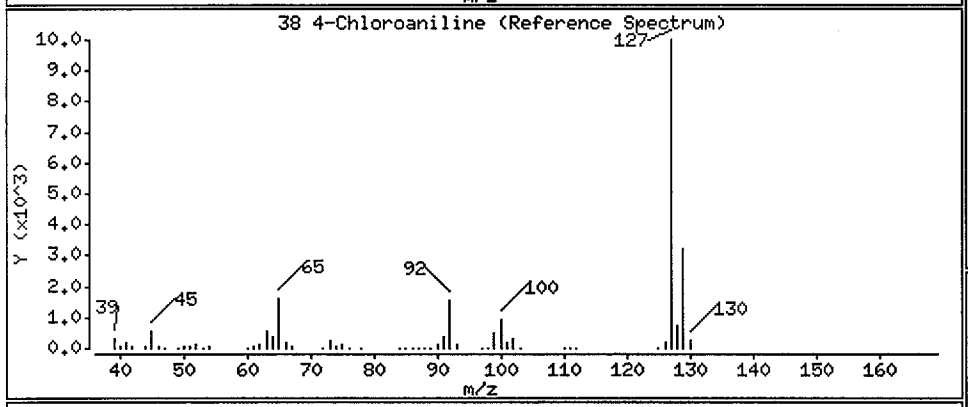
Column diameter: 0.25

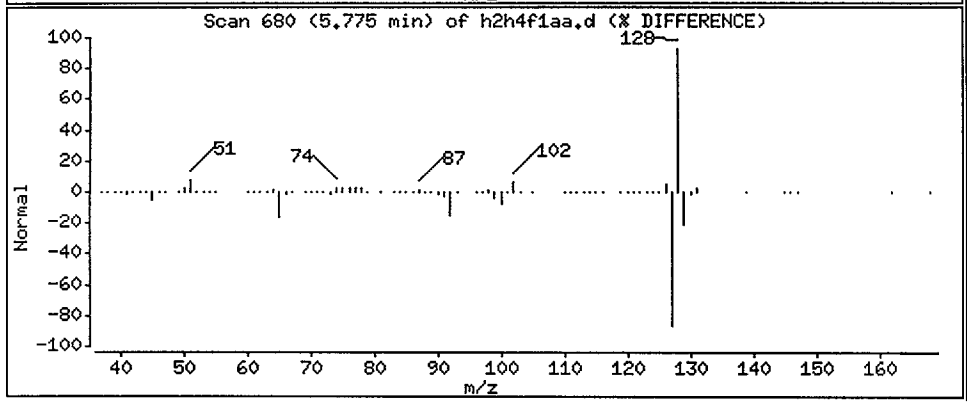
38 4-Chloroaniline

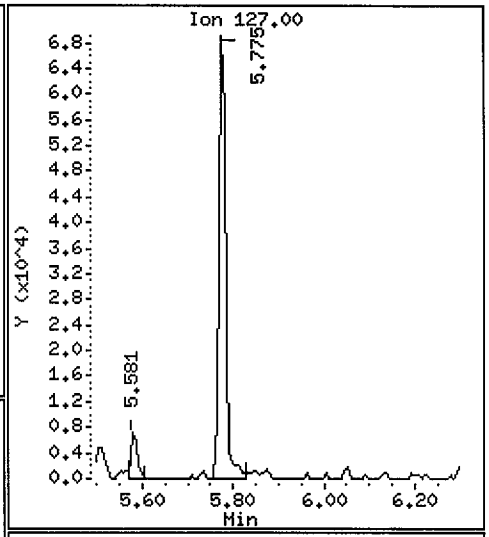
Concentration: 2760 ug/Kg

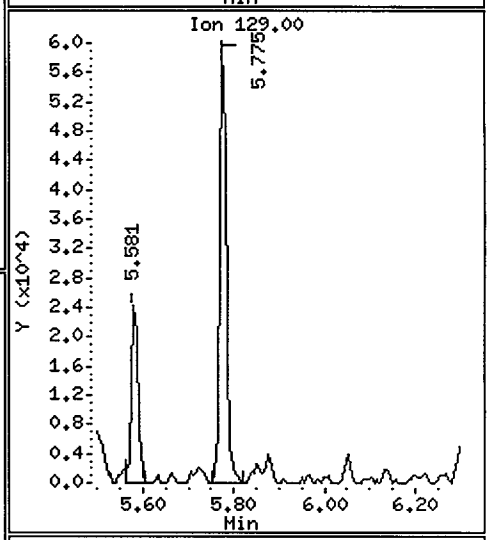


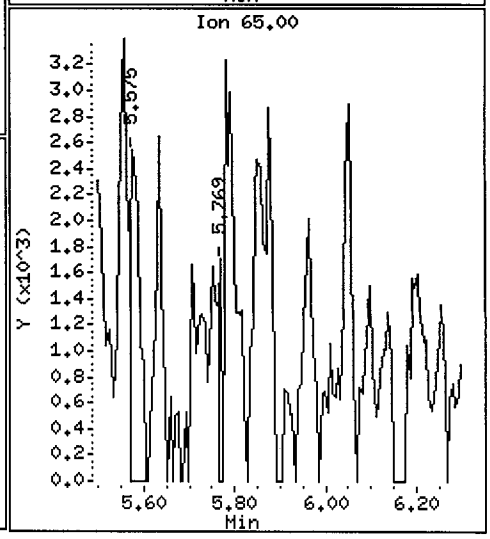












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

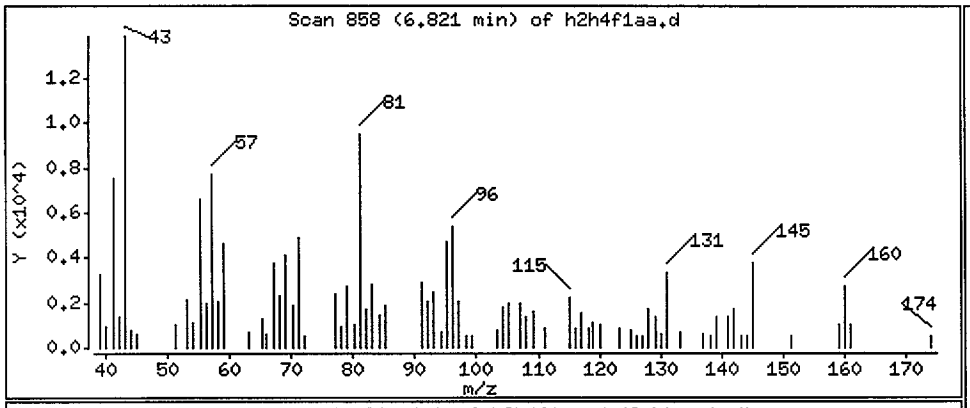
Operator: 60841

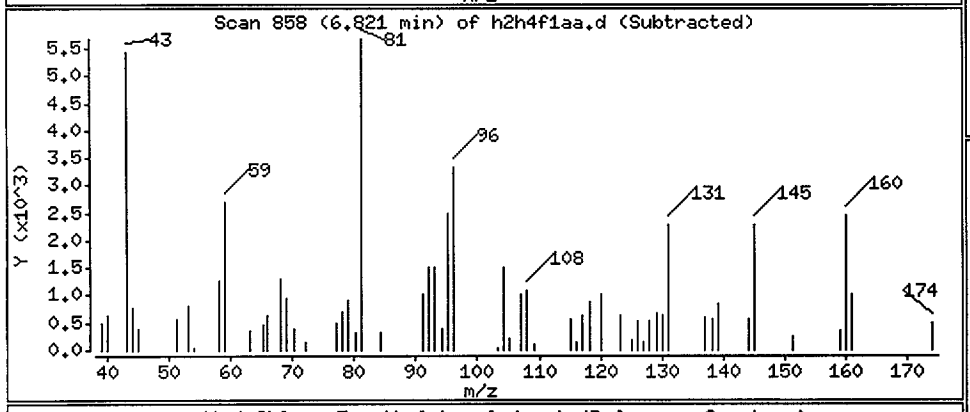
Column phase: ZB-5

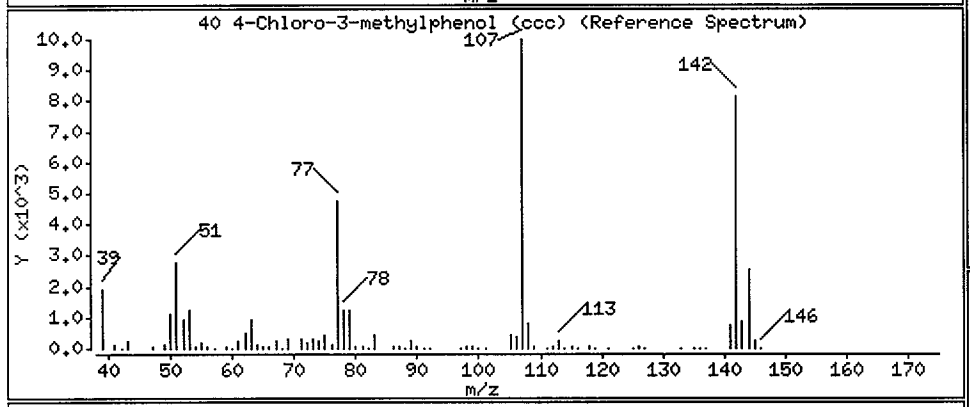
Column diameter: 0.25

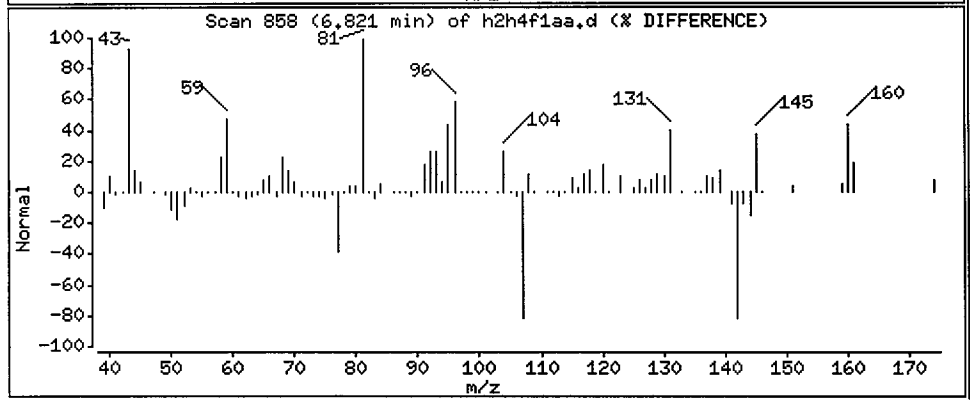
40 4-Chloro-3-methylphenol (ccc)

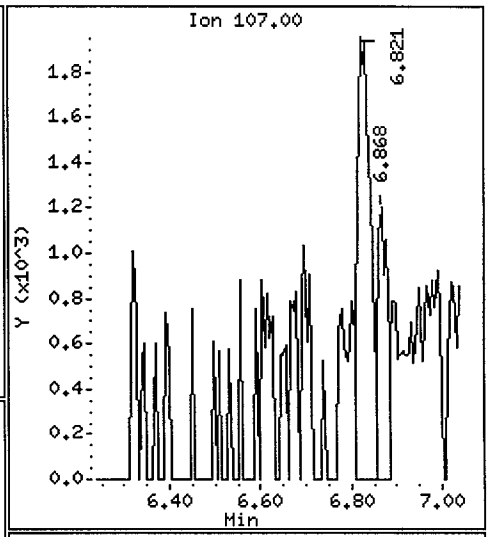
Concentration: 210 ug/Kg

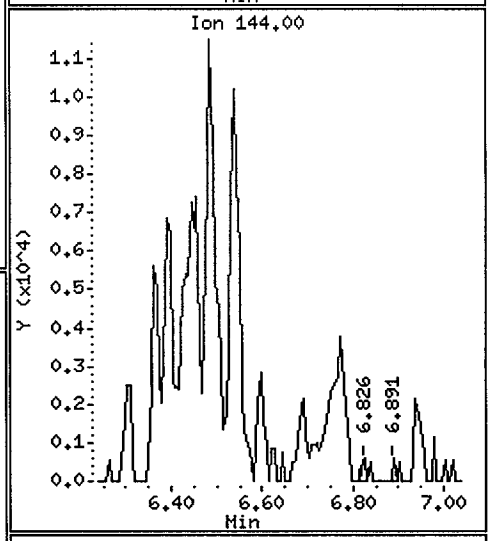


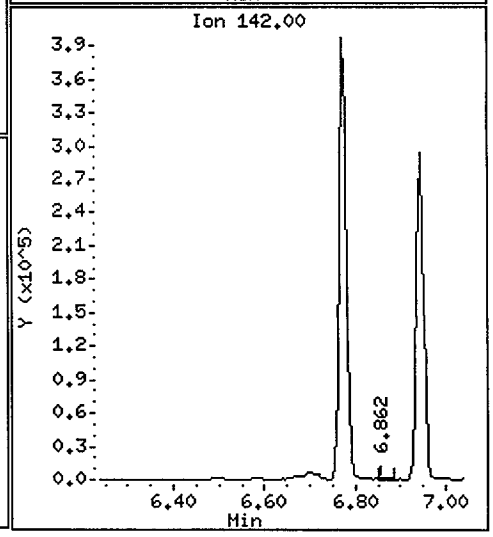












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

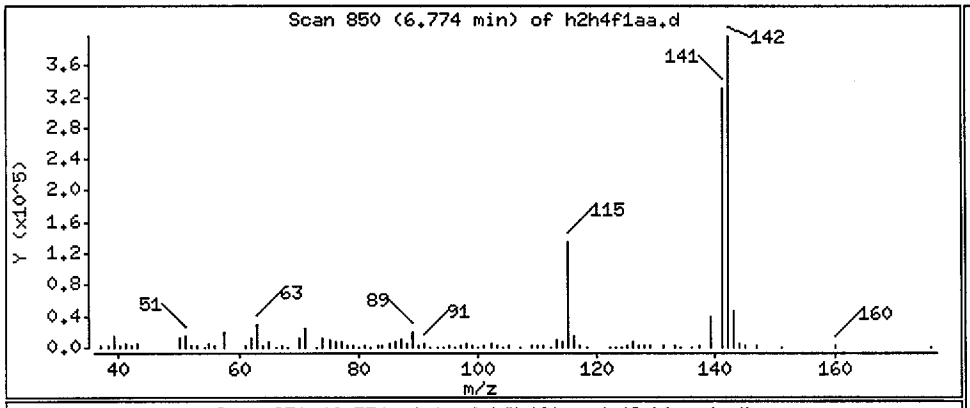
Operator: 60841

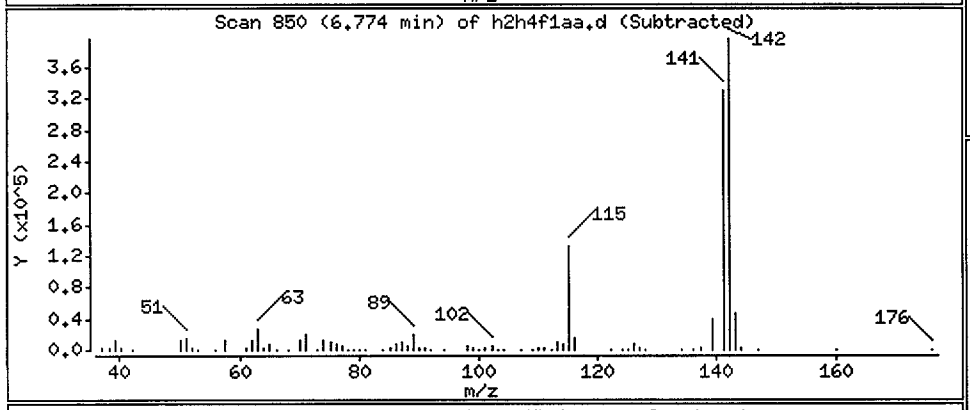
Column phase: ZB-5

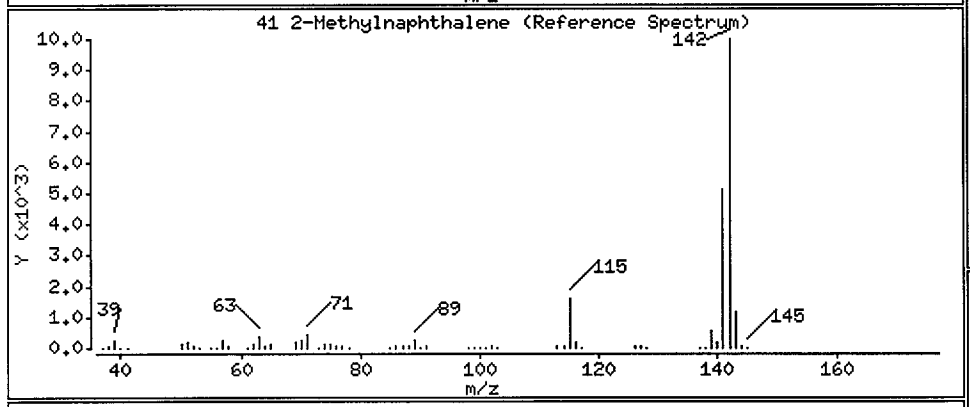
Column diameter: 0.25

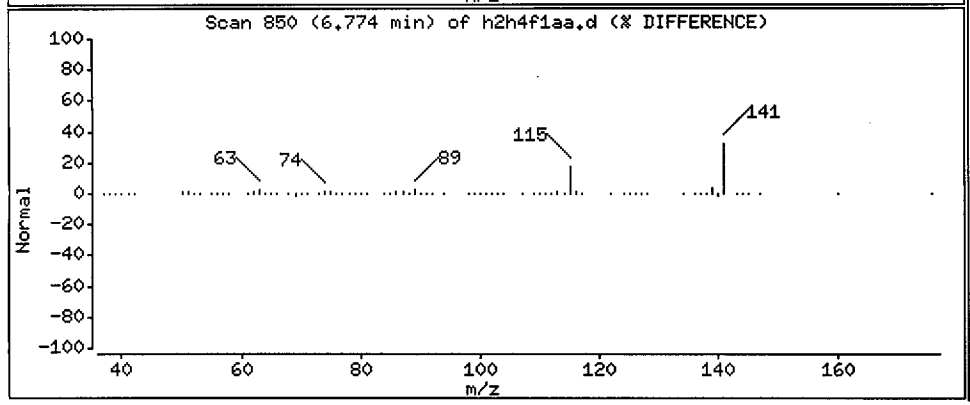
41 2-Methylnaphthalene

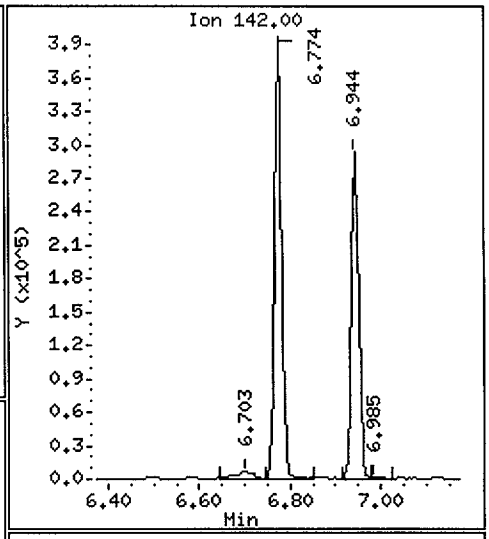
Concentration: 11000 ug/Kg

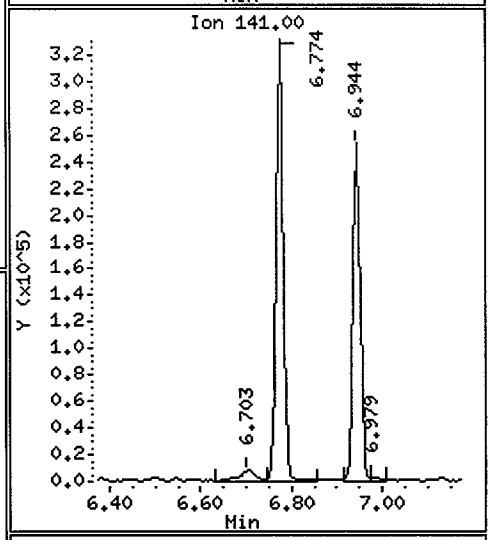


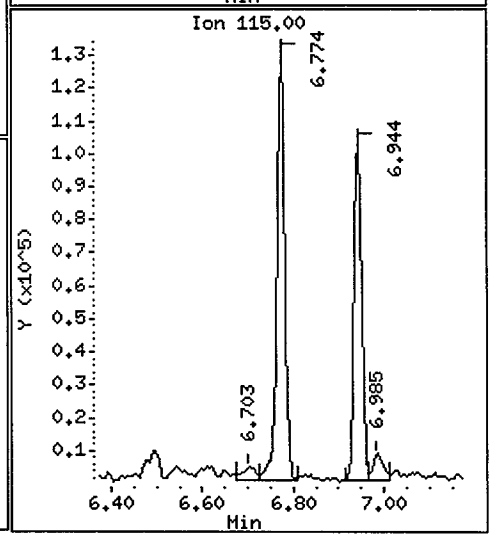












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

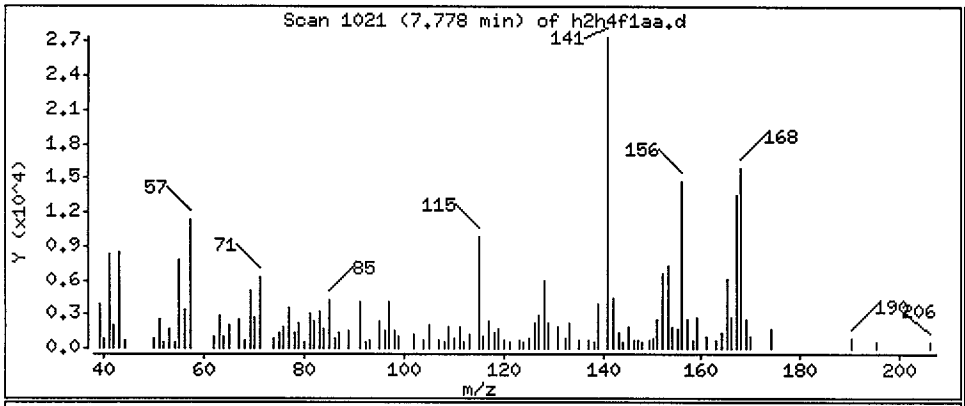
Operator: 60841

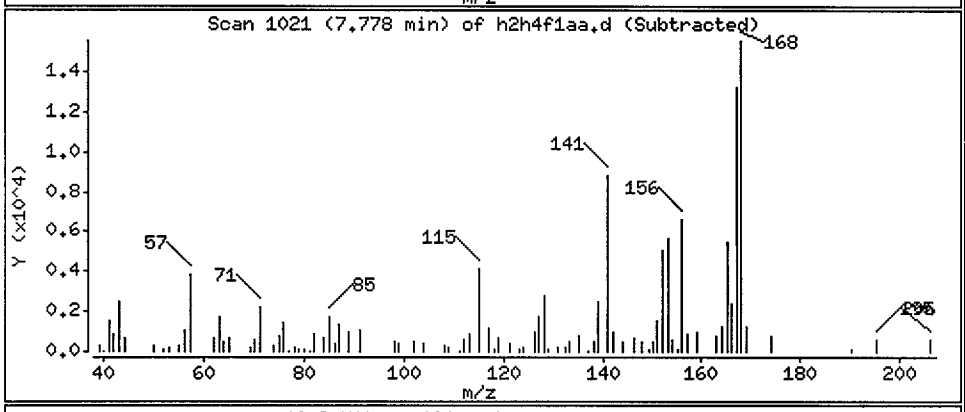
Column phase: ZB-5

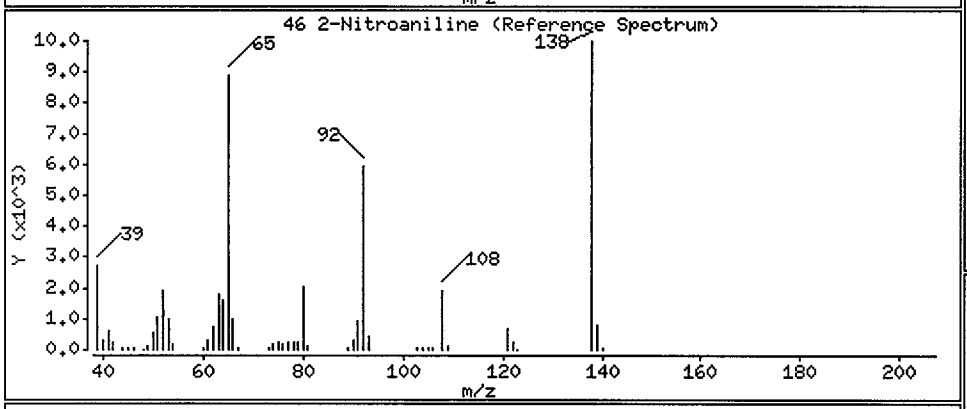
Column diameter: 0.25

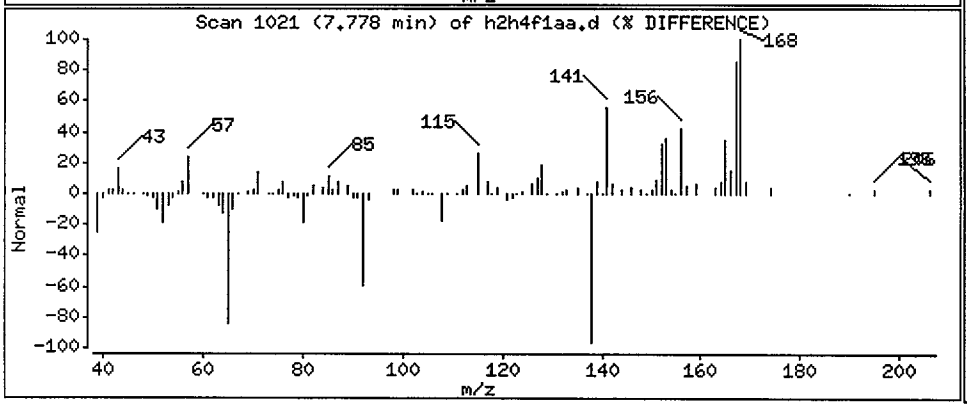
46 2-Nitroaniline

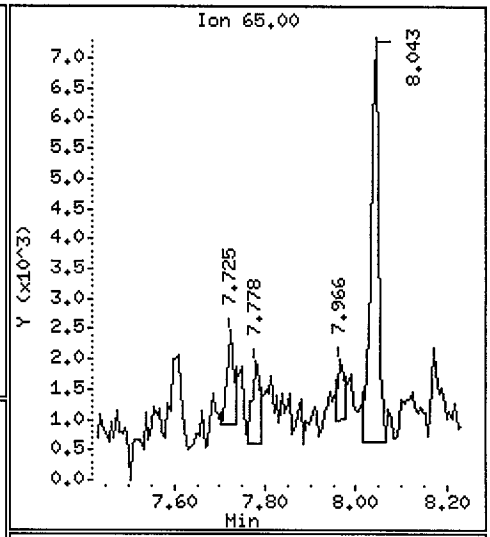
Concentration: 123 ug/Kg

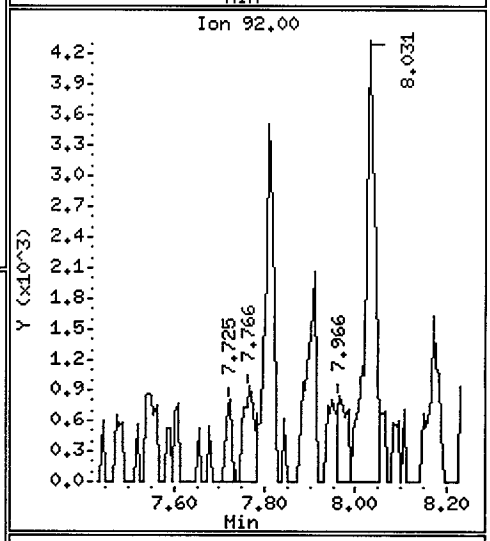


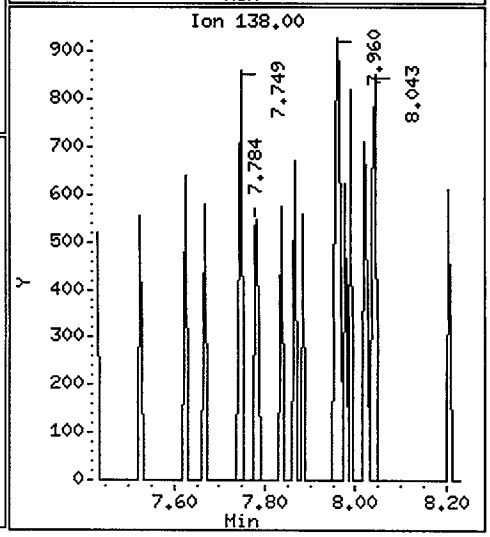












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

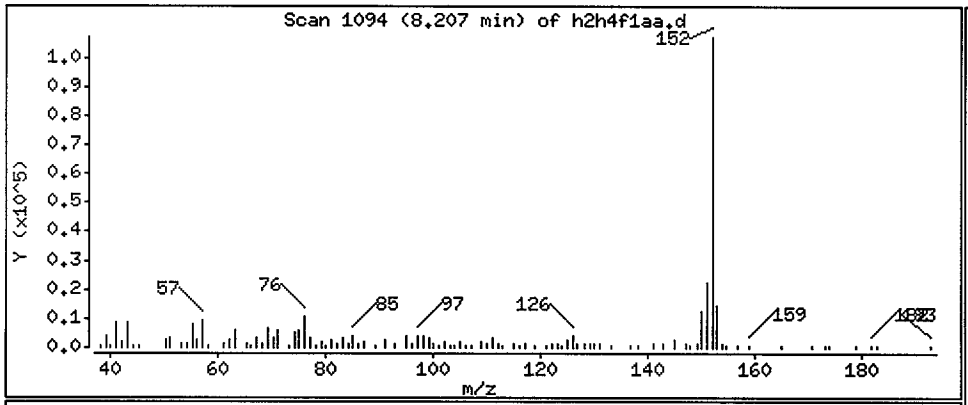
Operator: 60841

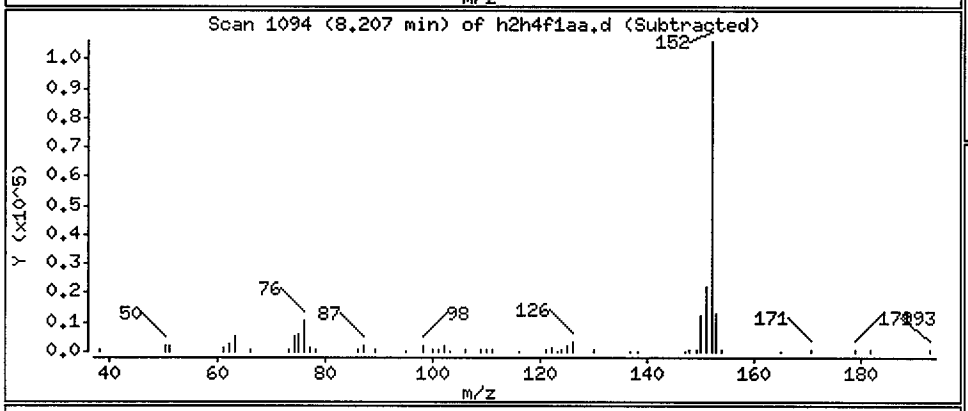
Column phase: ZB-5

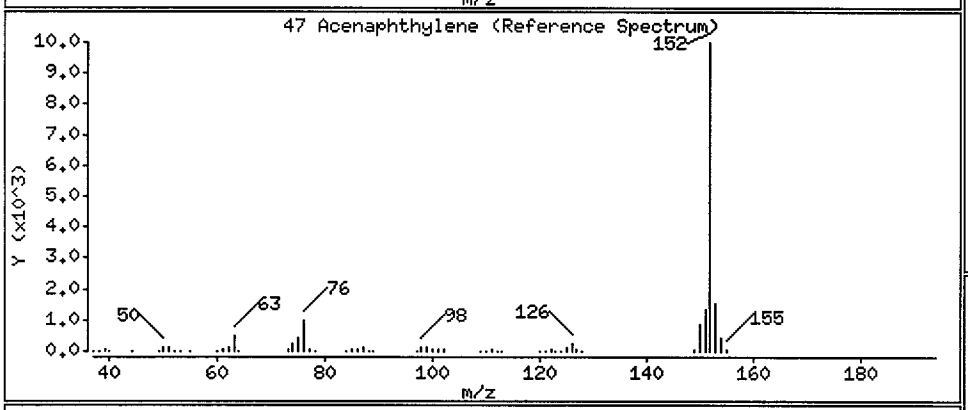
Column diameter: 0.25

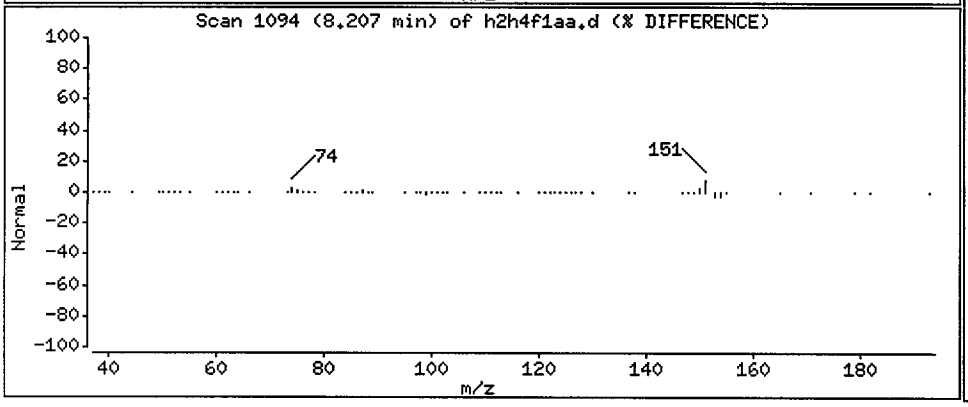
47 Acenaphthylene

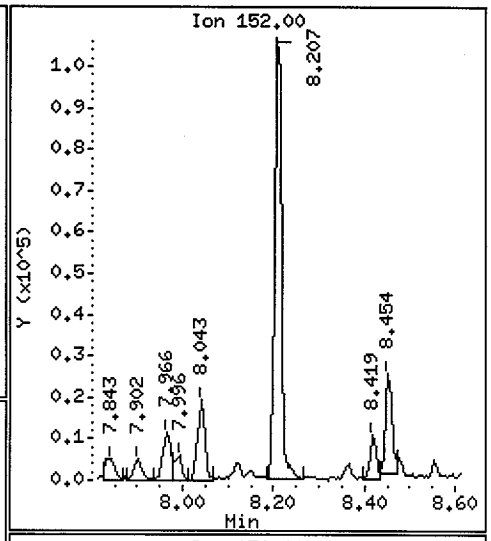
Concentration: 1590 ug/Kg

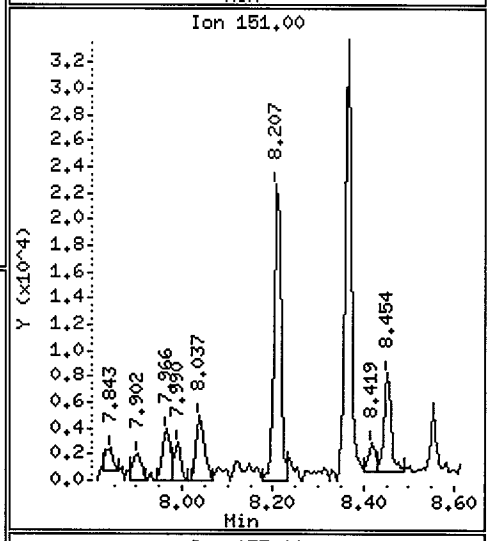


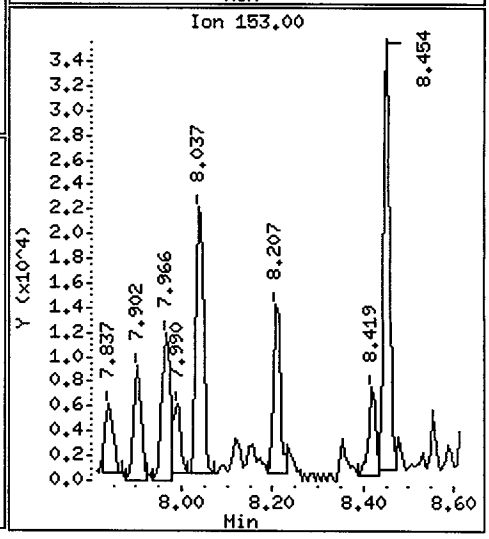












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

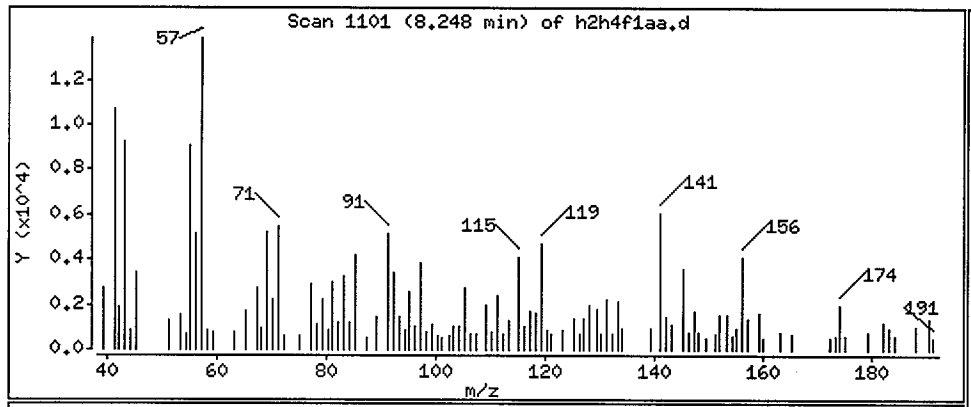
Operator: 60841

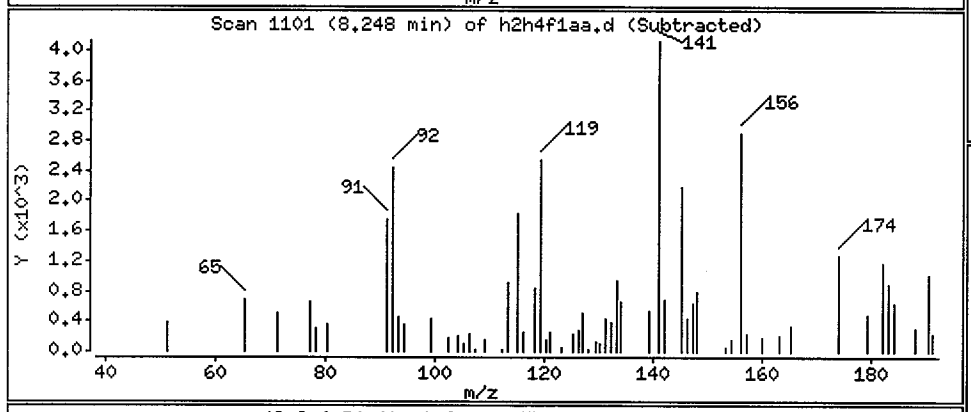
Column phase: ZB-5

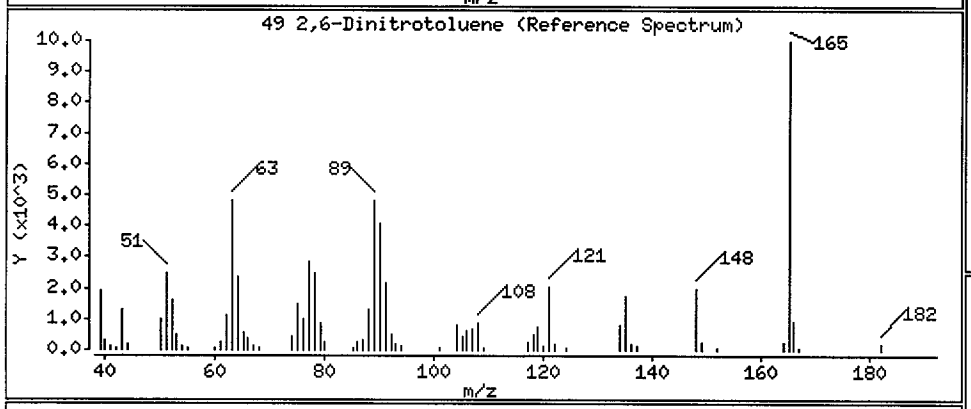
Column diameter: 0.25

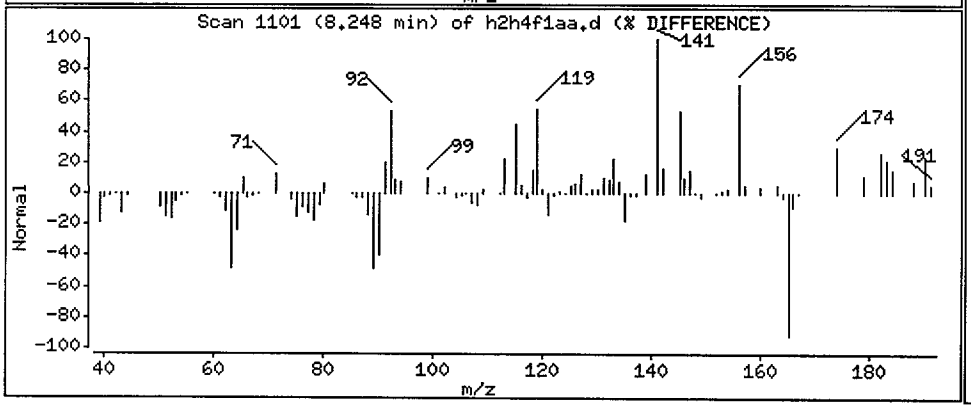
49 2,6-Dinitrotoluene

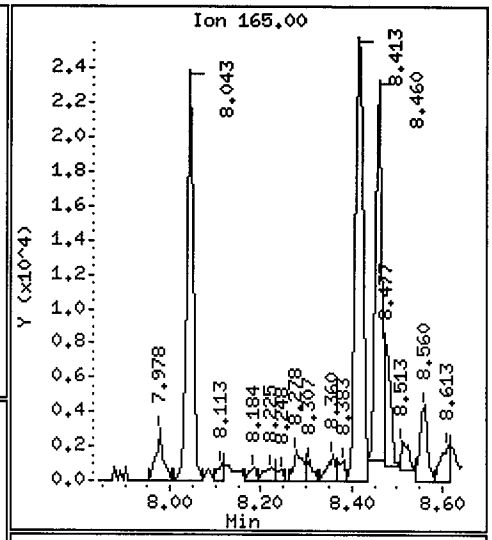
Concentration: 84.6 ug/Kg

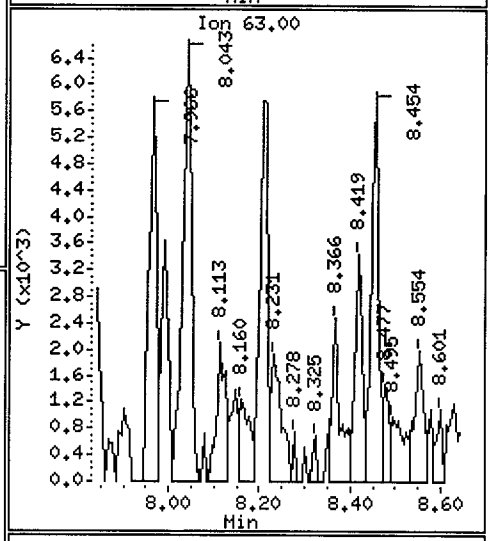


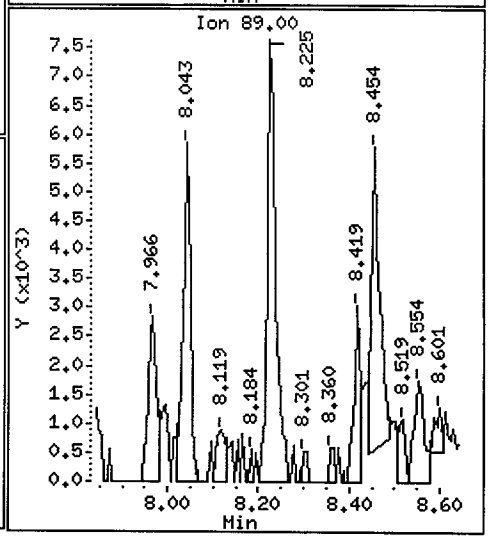












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

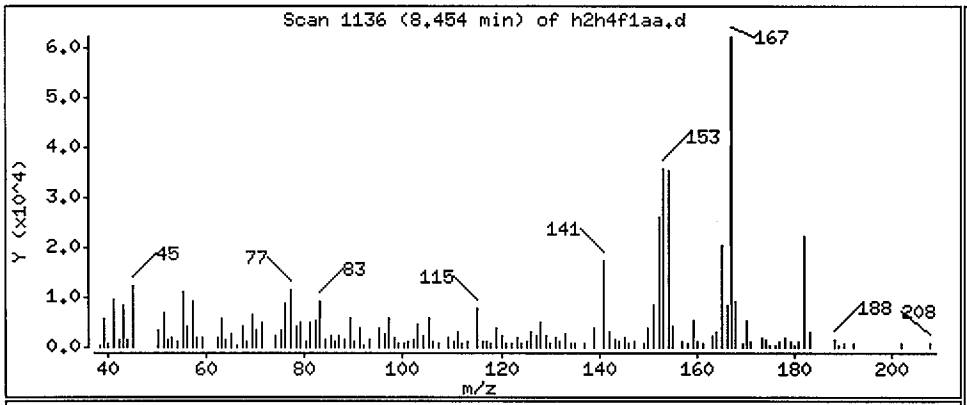
Operator: 60841

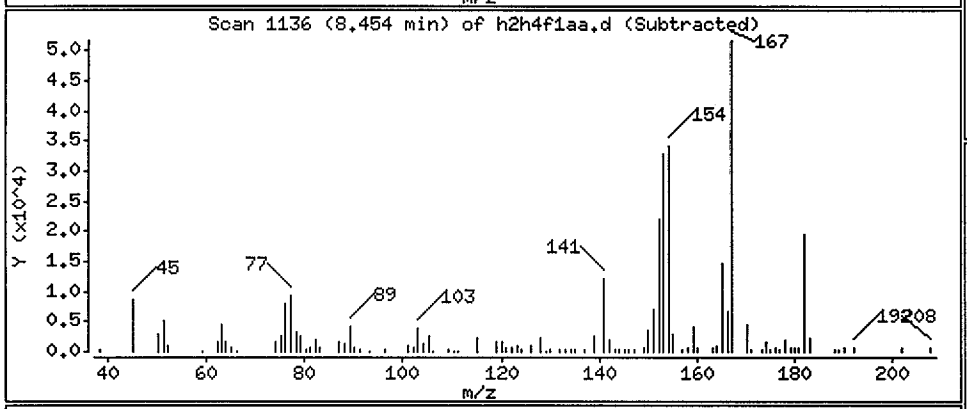
Column phase: ZB-5

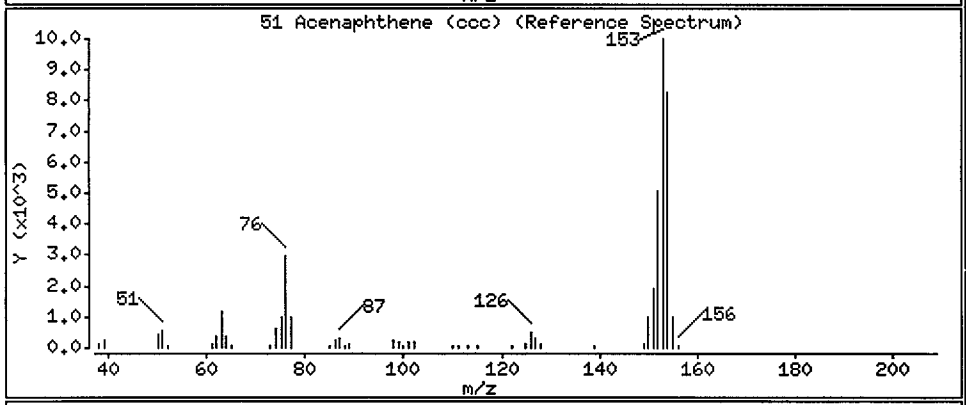
Column diameter: 0.25

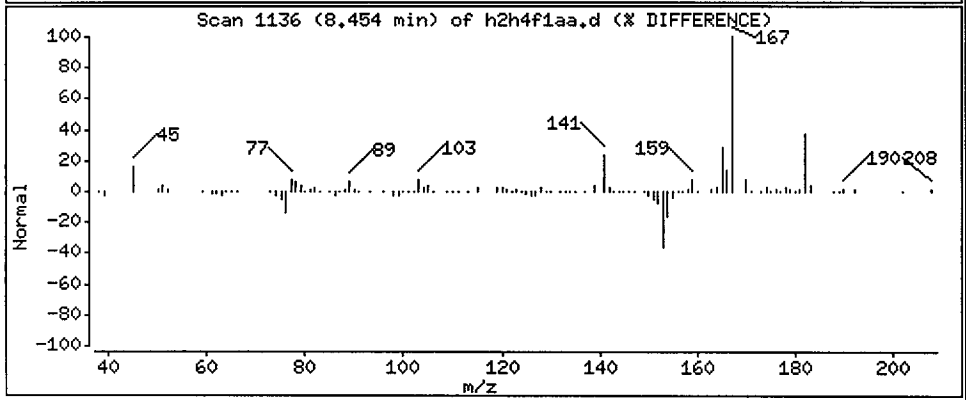
51 Acenaphthene (ccc)

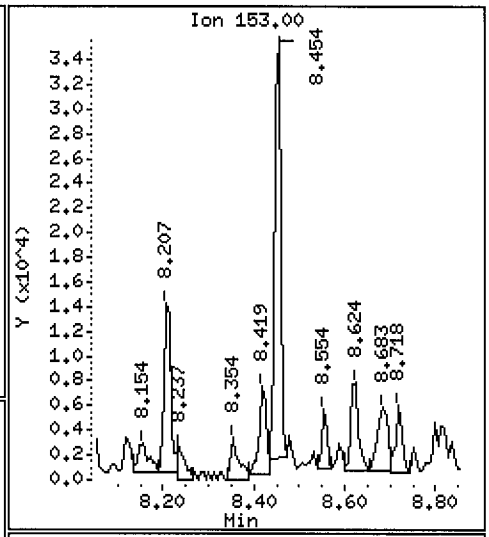
Concentration: 775 ug/Kg

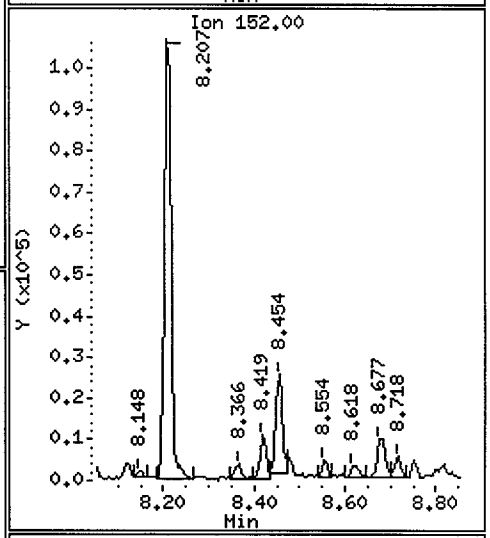


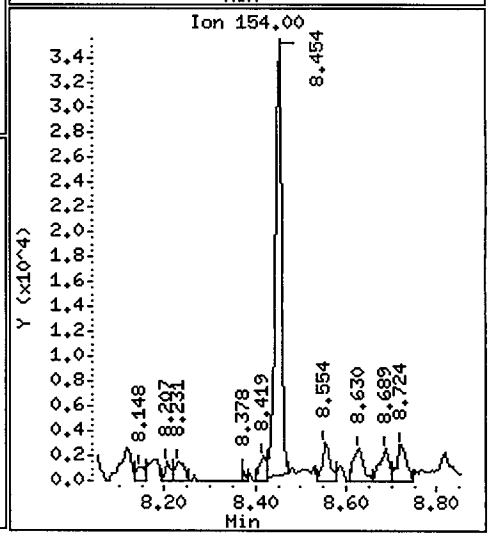












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

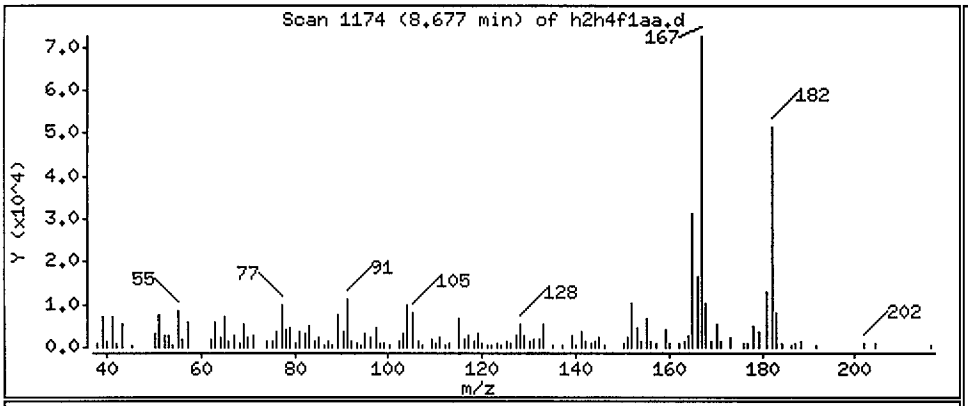
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

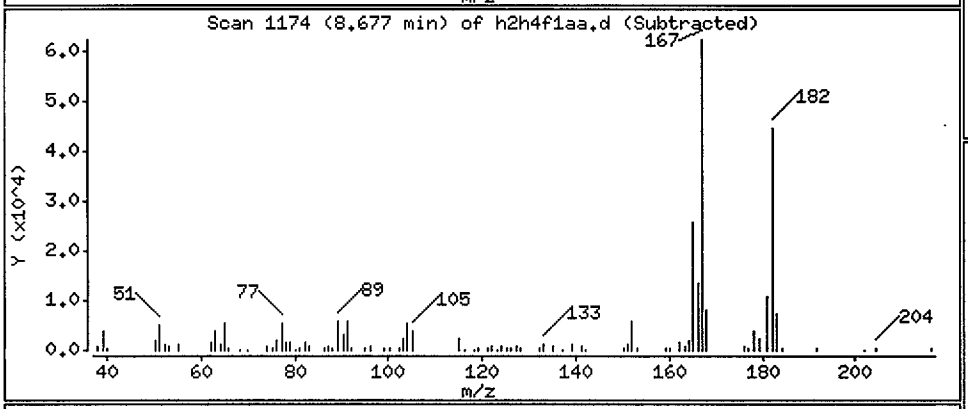
Sample Info: H2H4F1AA,5,0,,,,

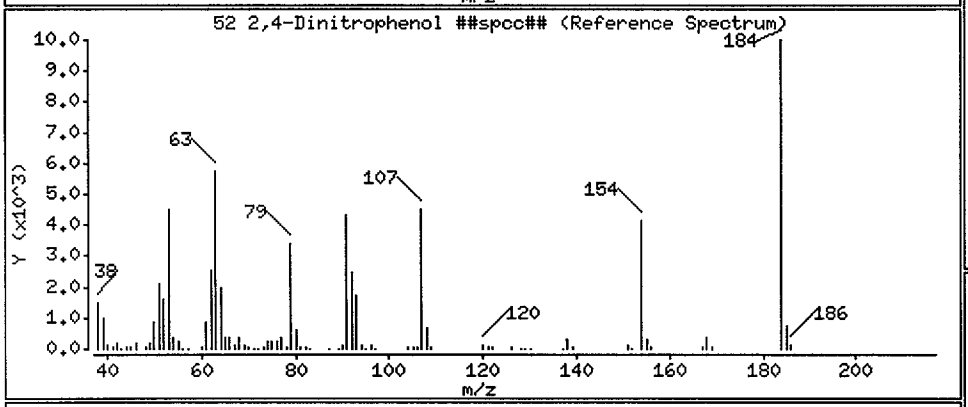
Volume Injected (uL): 1.0 | Operator: 60841

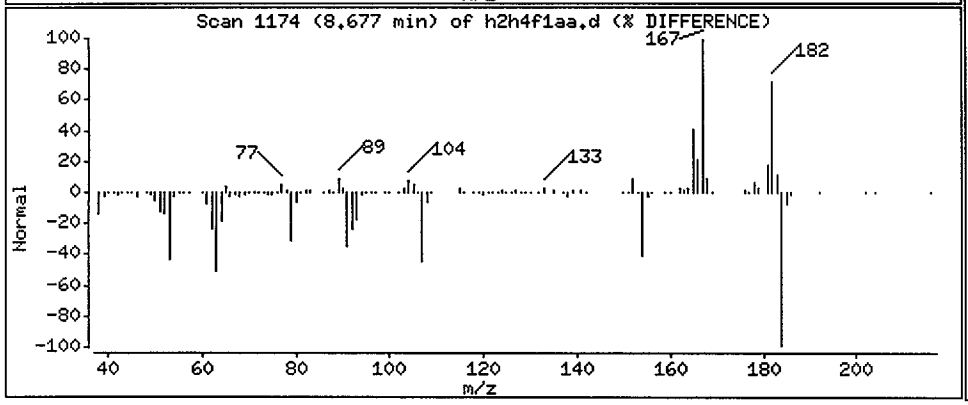
Column phase: ZB-5 | Column diameter: 0.25

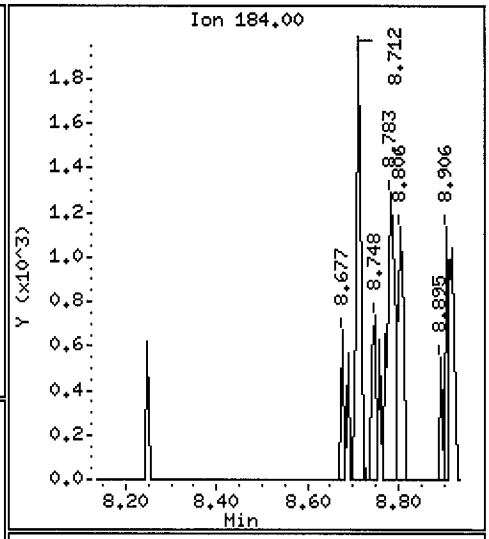
52 2,4-Dinitrophenol ##spec## | Concentration: 1980 ug/Kg

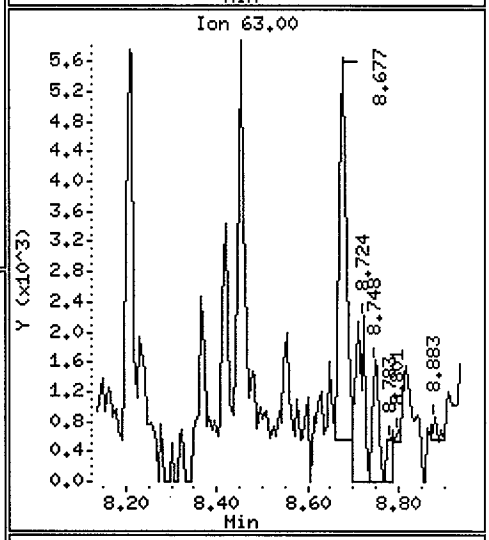


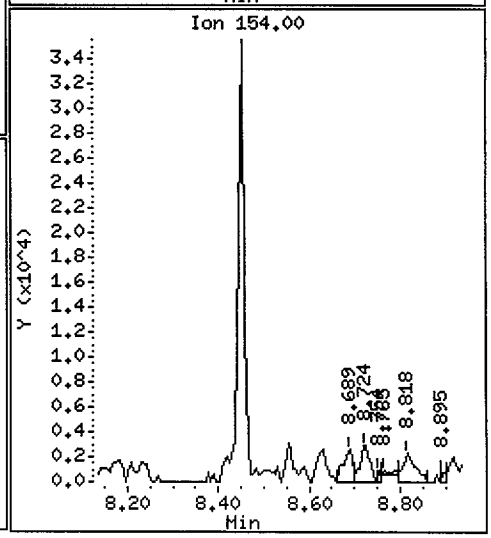












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

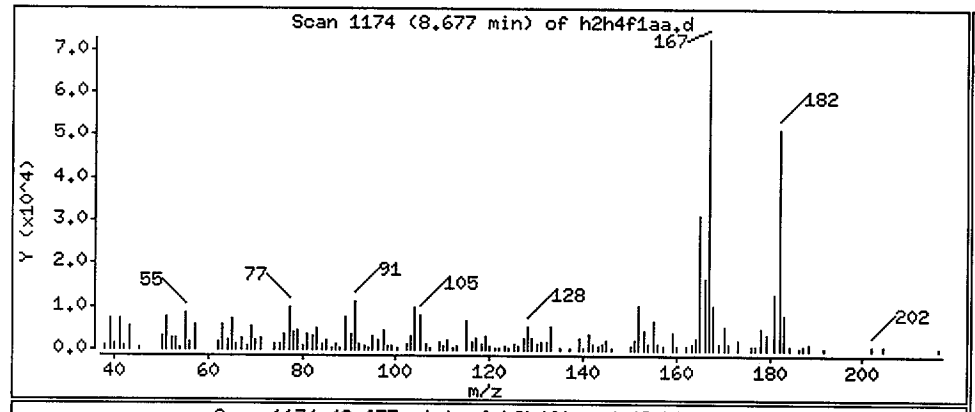
Operator: 60841

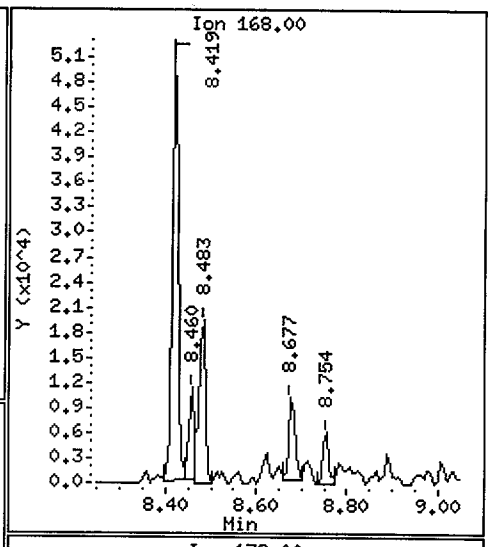
Column phase: ZB-5

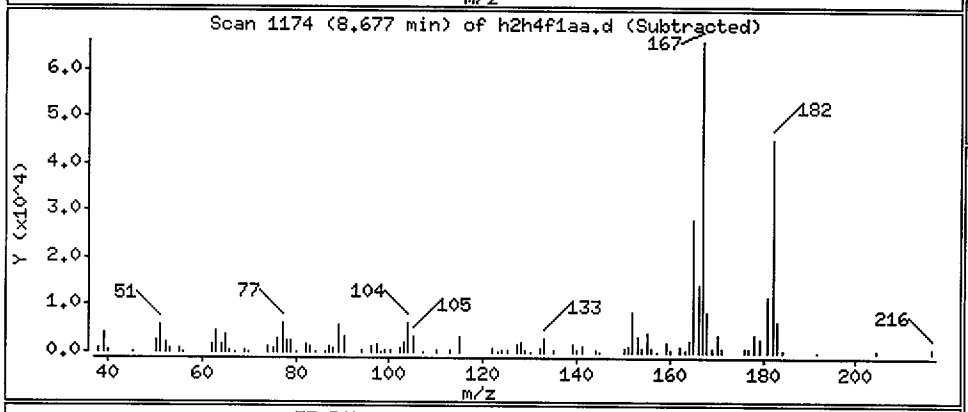
Column diameter: 0.25

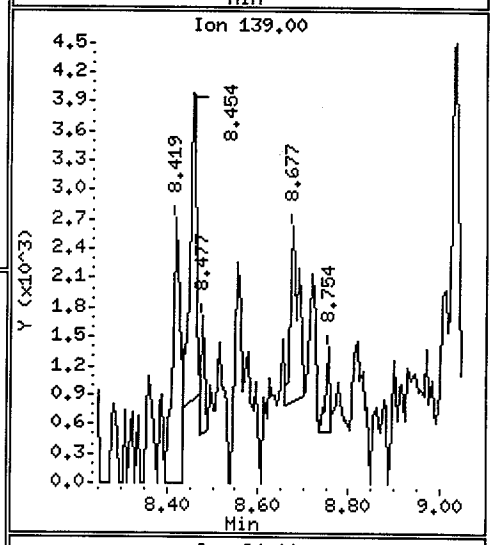
53 Dibenzofuran

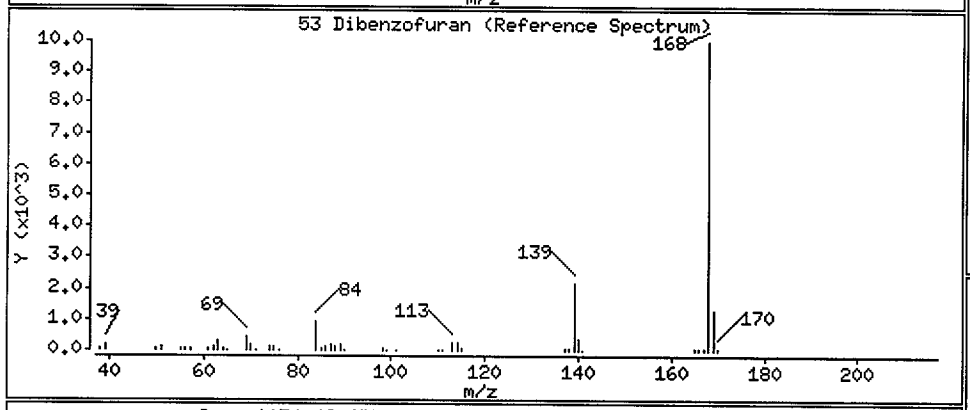
Concentration: 162 ug/Kg

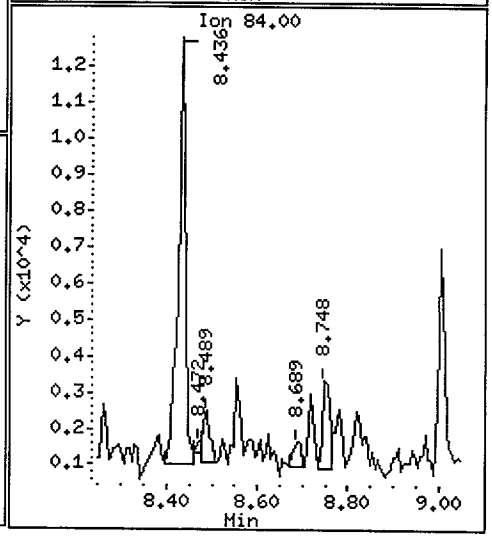


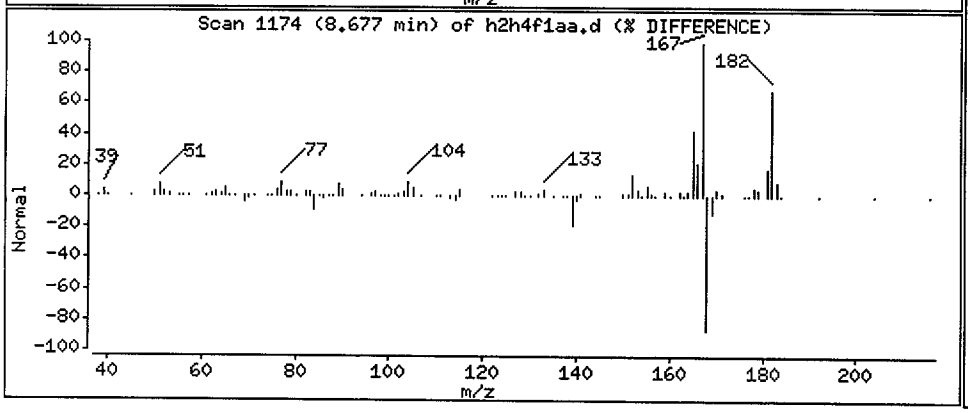












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

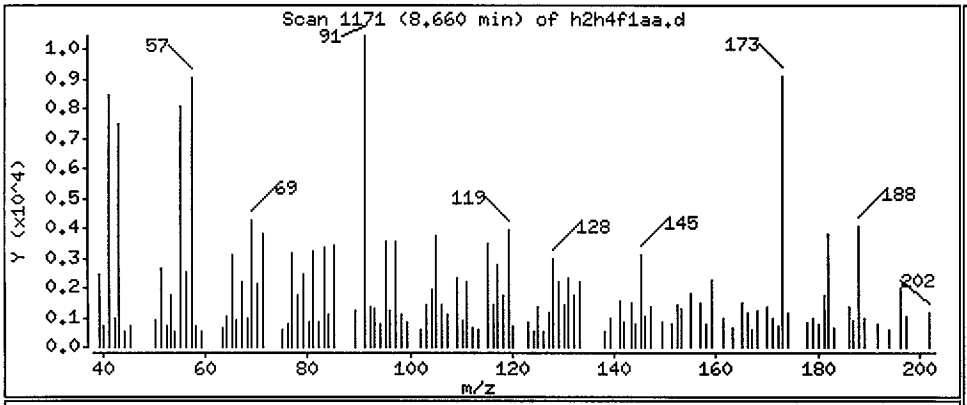
Operator: 60841

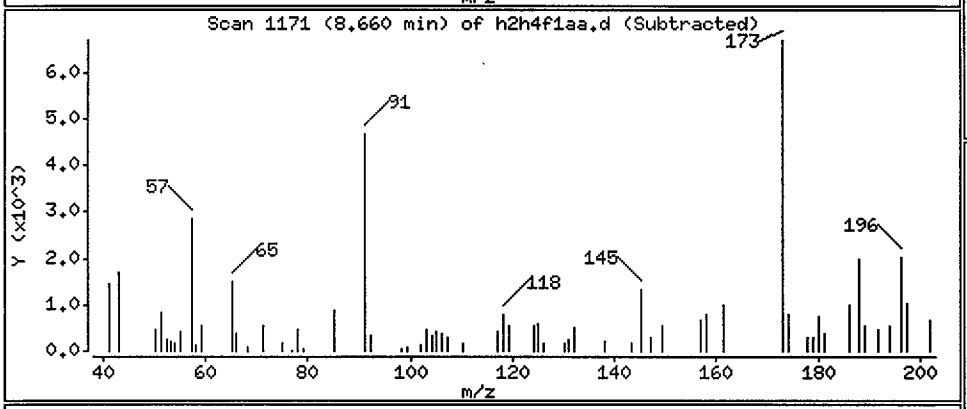
Column phase: ZB-5

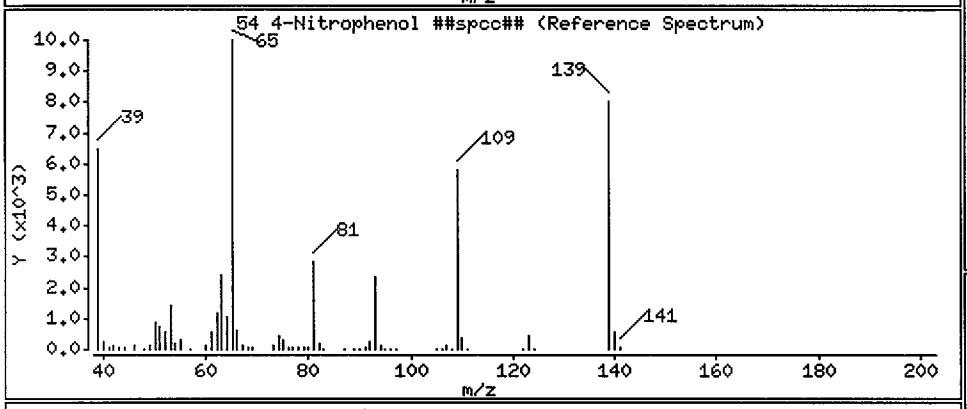
Column diameter: 0.25

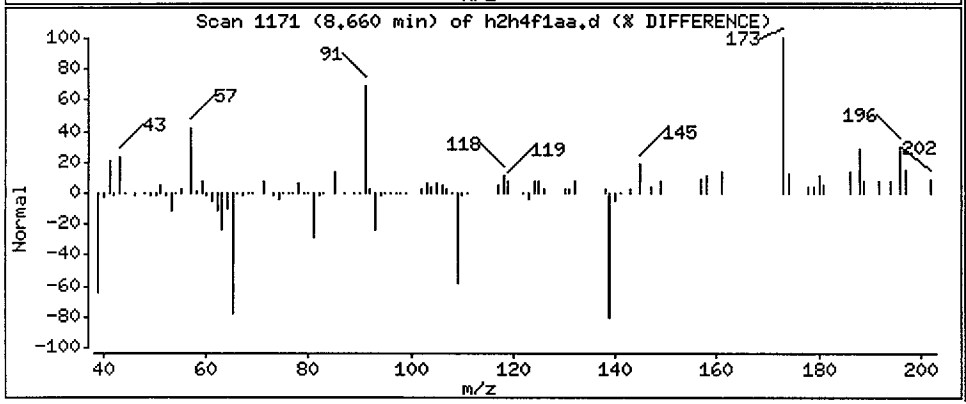
54 4-Nitrophenol ##spcc##

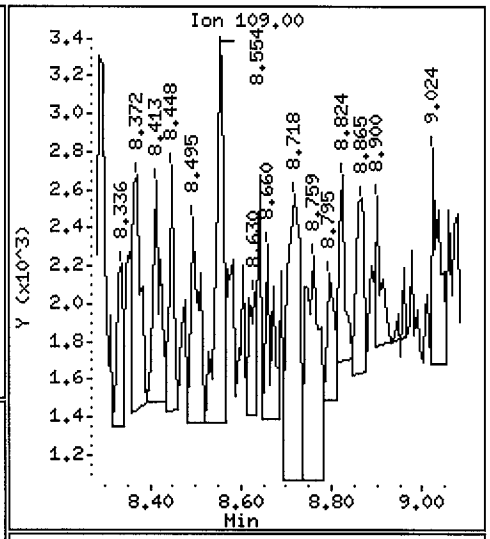
Concentration: 128 ug/Kg

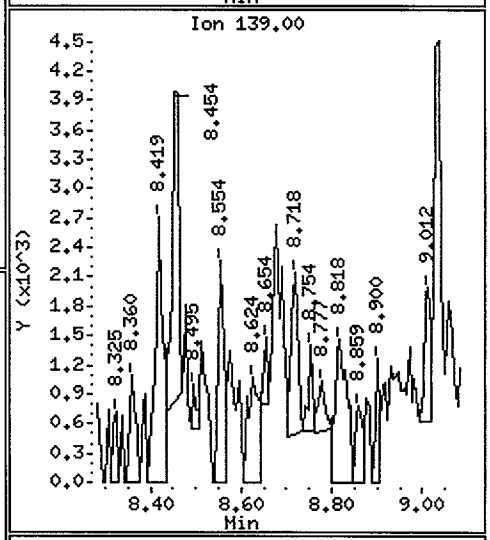


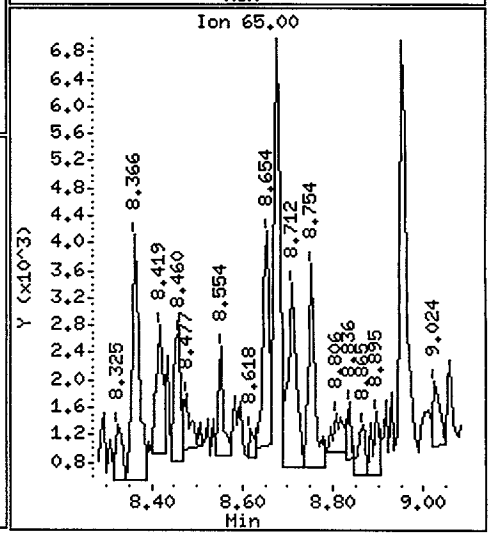












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

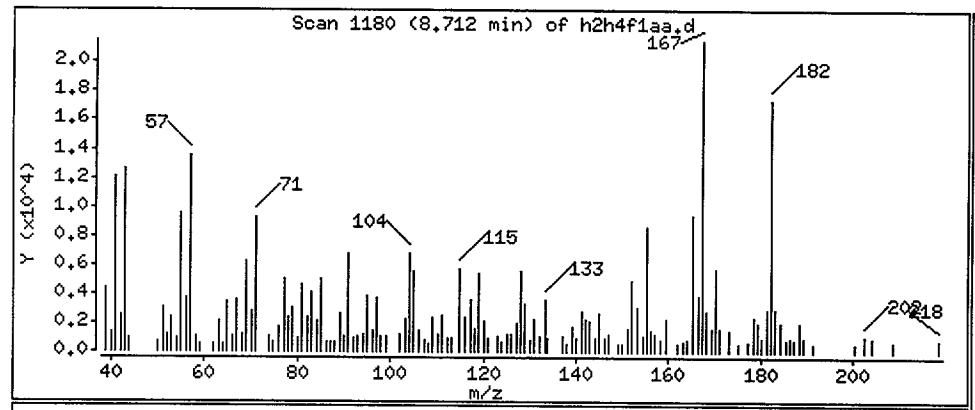
Operator: 60841

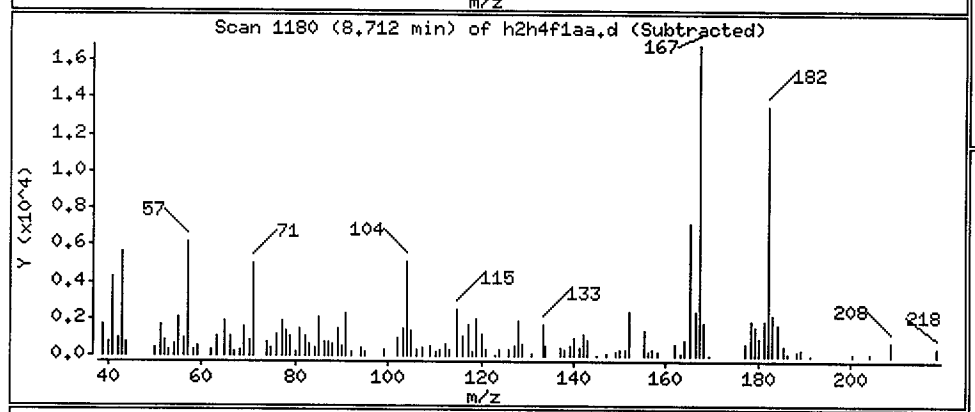
Column phase: ZB-5

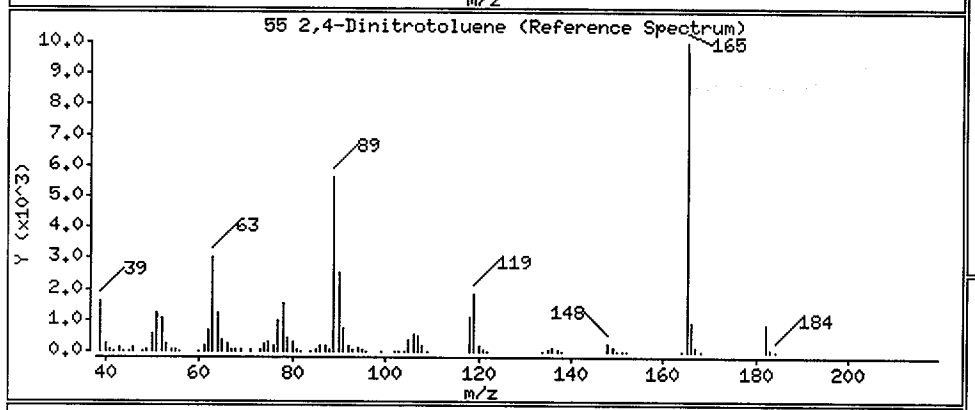
Column diameter: 0.25

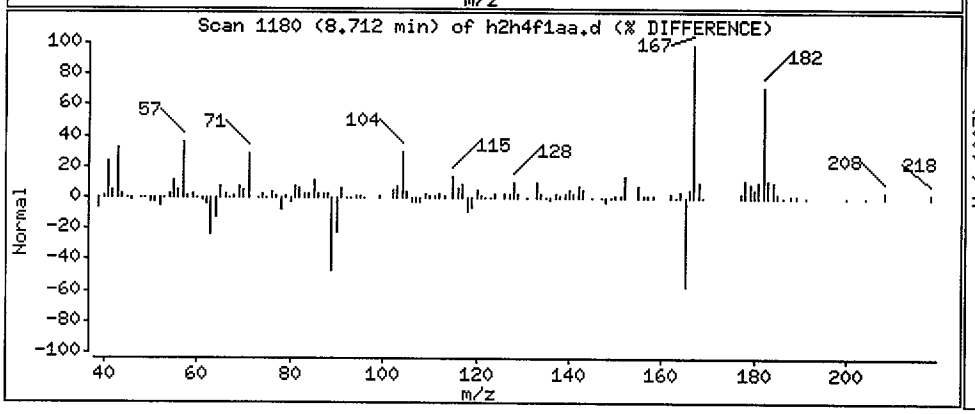
55 2,4-Dinitrotoluene

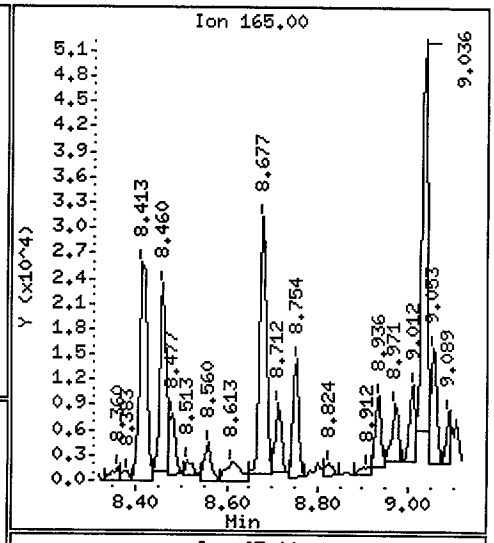
Concentration: 510 ug/Kg

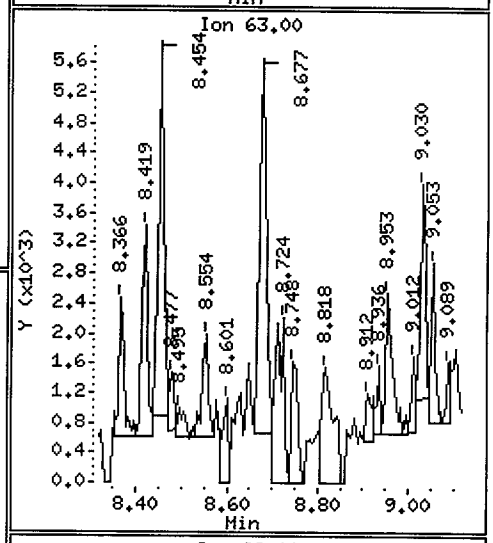


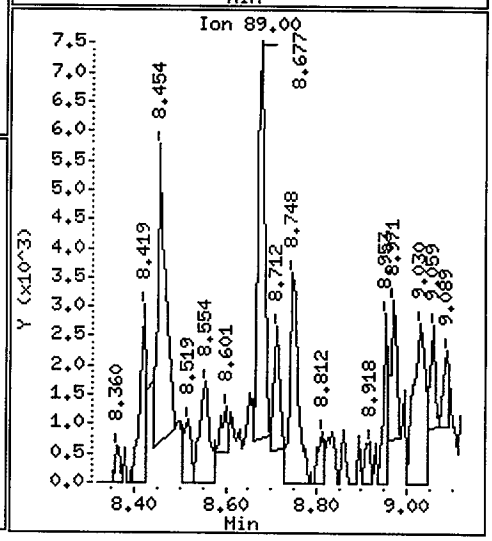












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

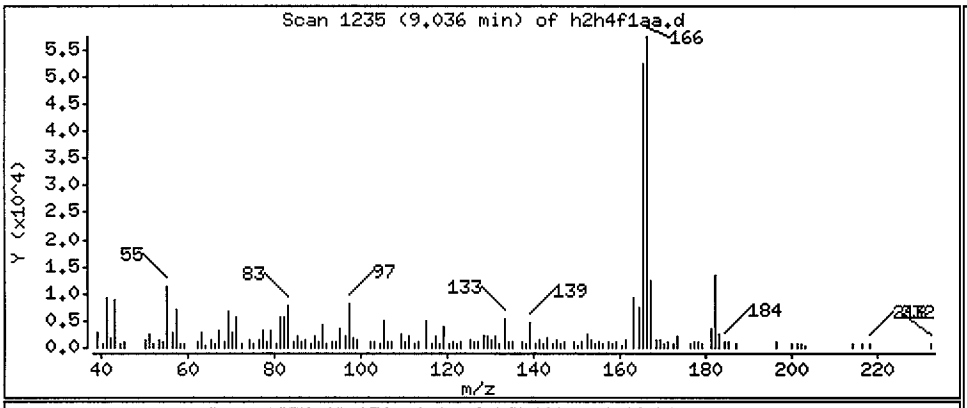
Operator: 60841

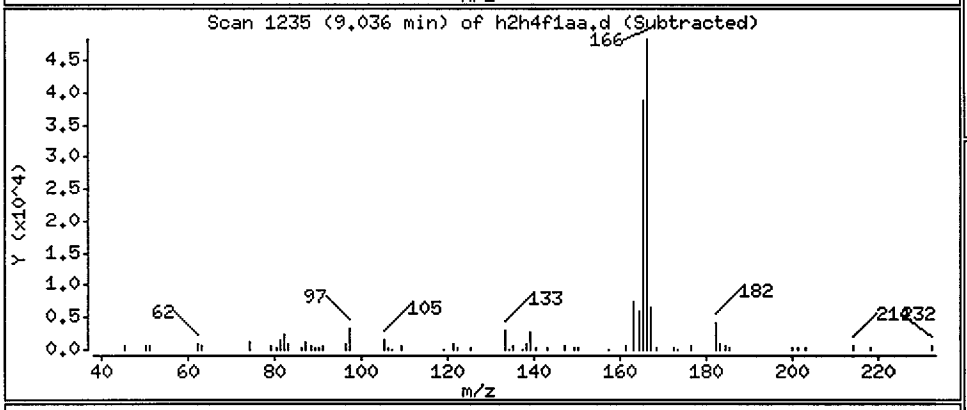
Column phase: ZB-5

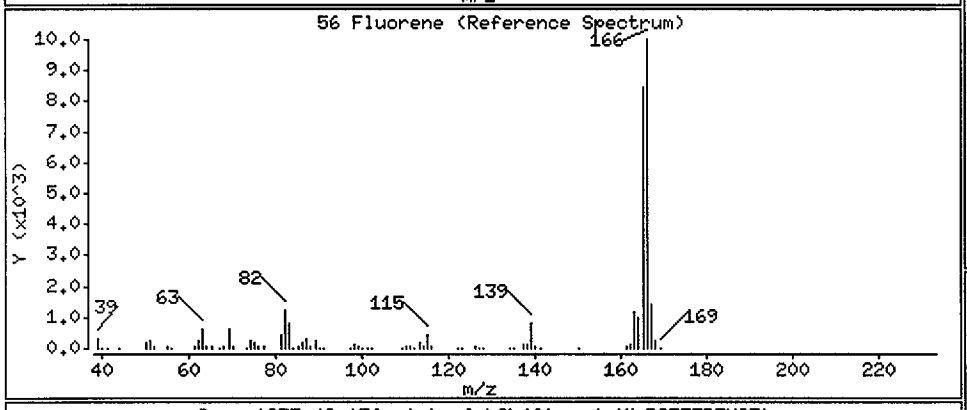
Column diameter: 0.25

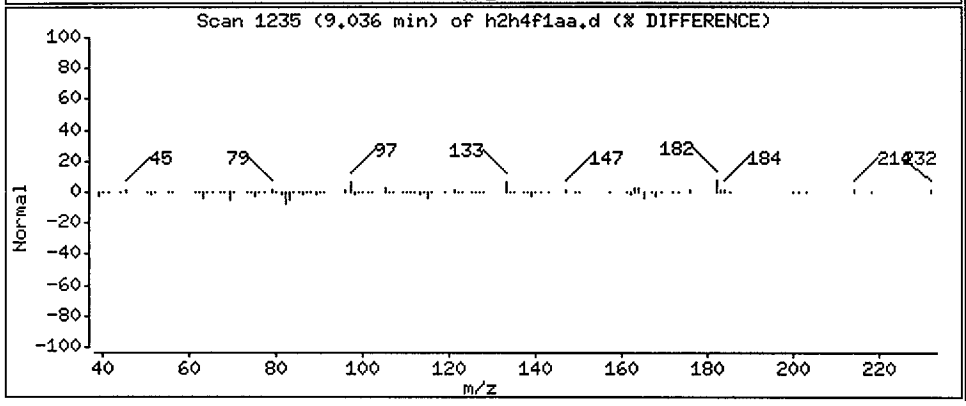
56 Fluorene

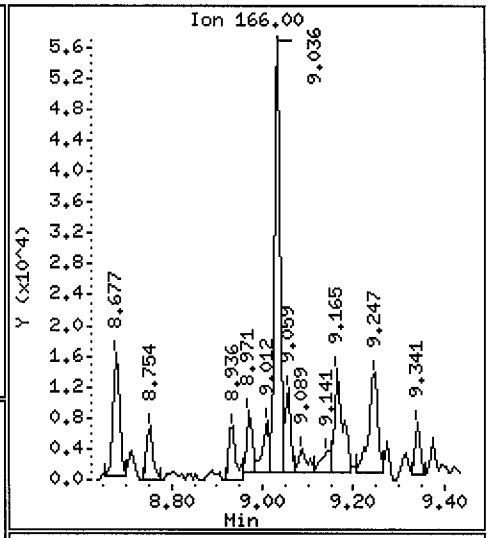
Concentration: 1010 ug/Kg

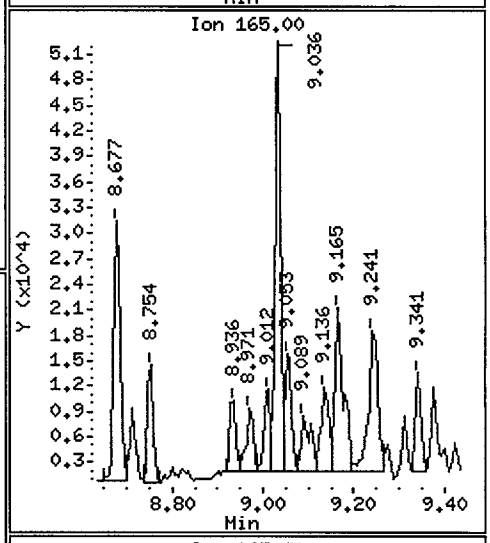


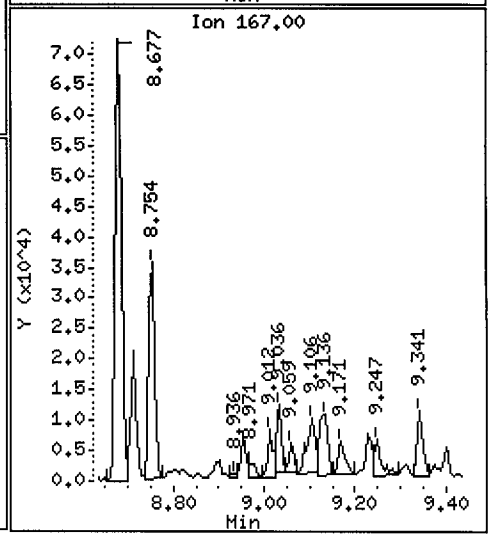












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

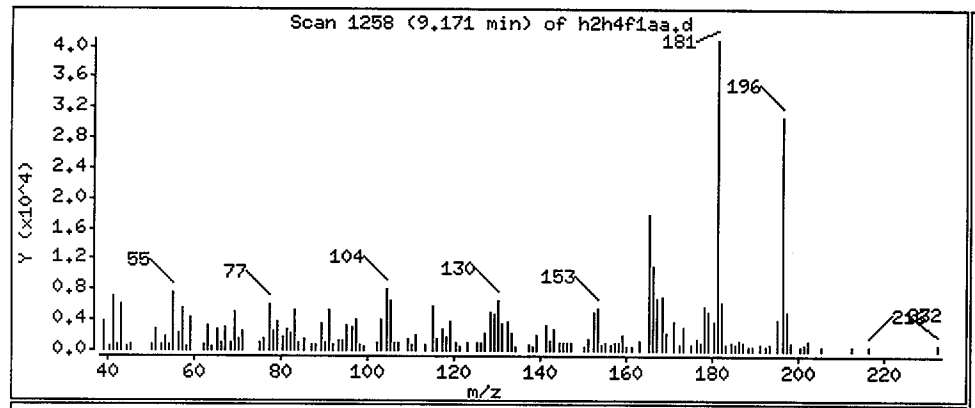
Operator: 60841

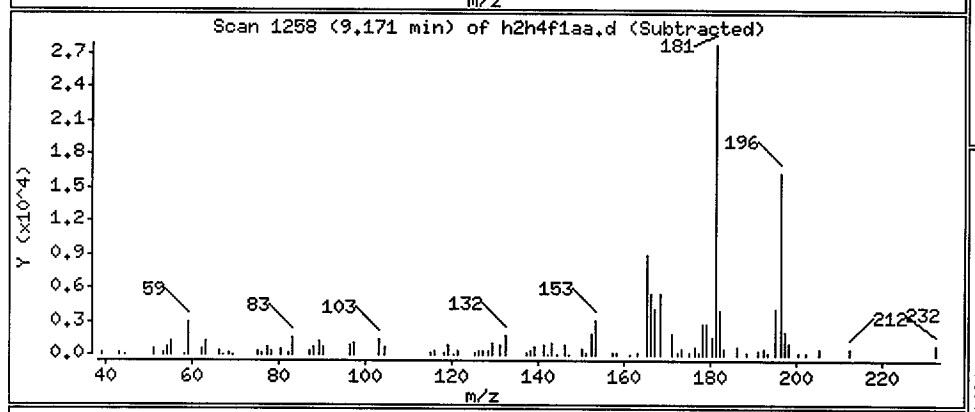
Column phase: ZB-5

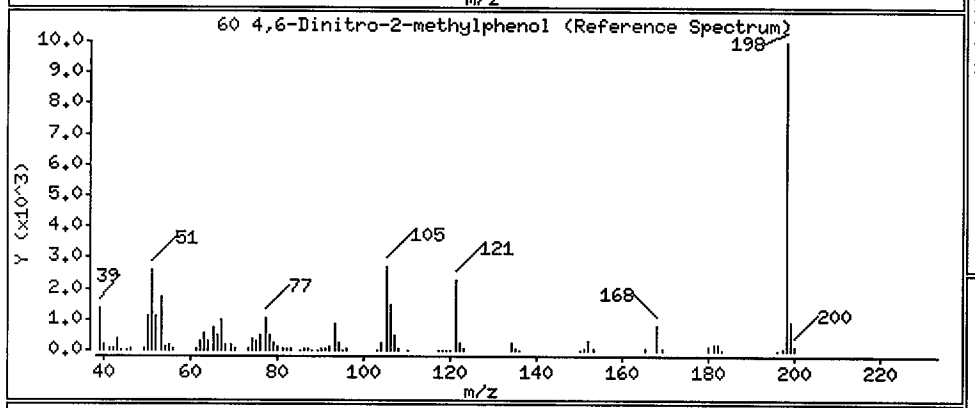
Column diameter: 0.25

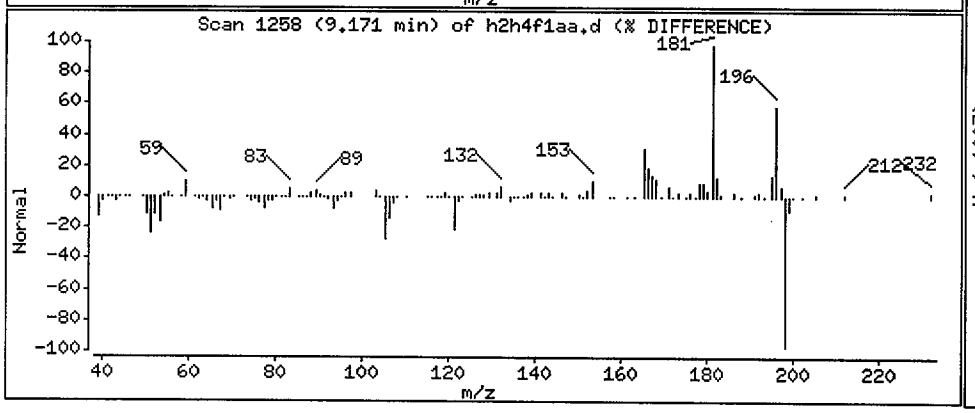
60 4,6-Dinitro-2-methylphenol

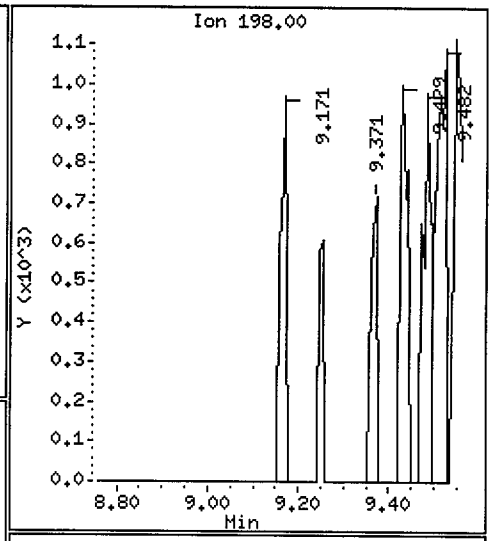
Concentration: 107 ug/Kg

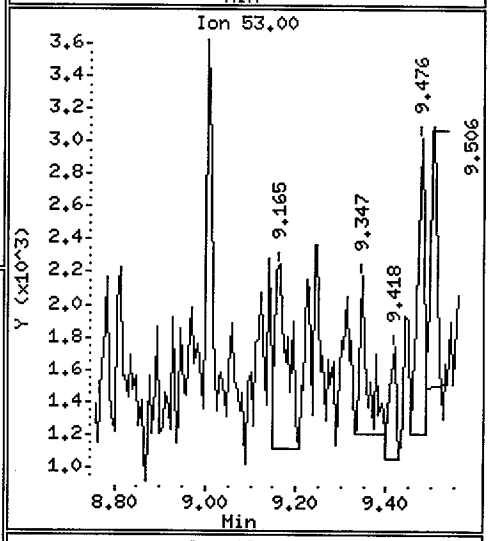


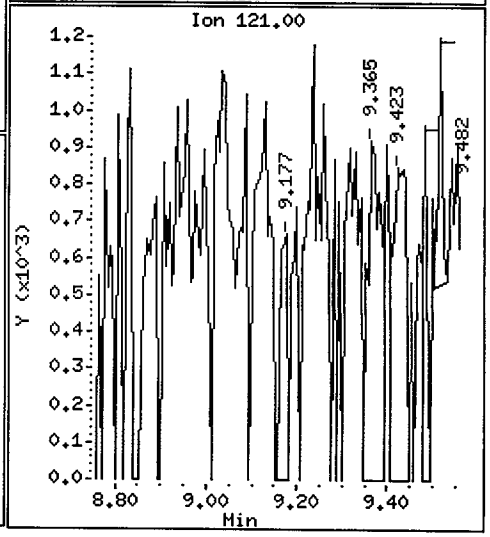












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

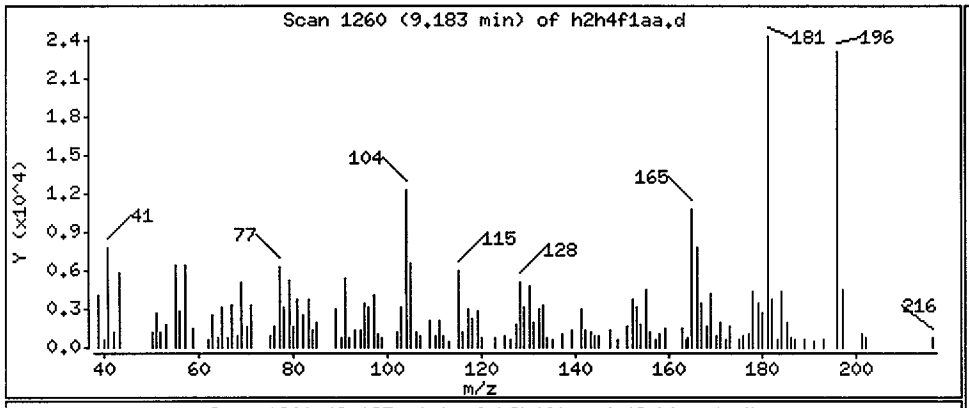
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

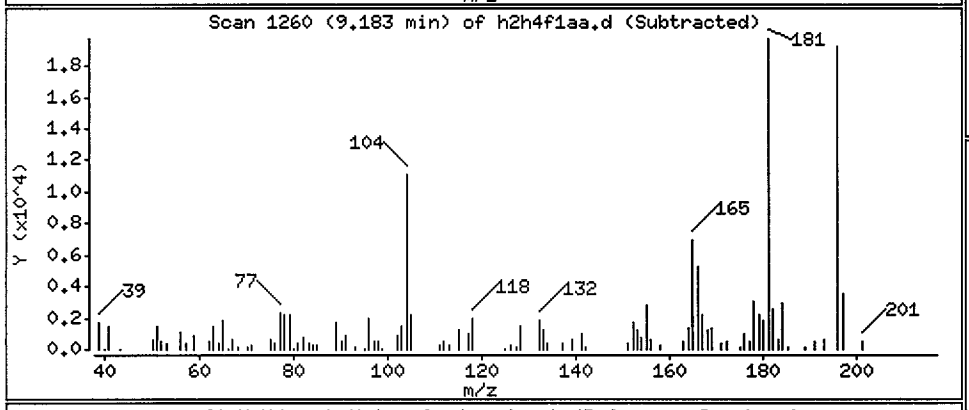
Sample Info: H2H4F1AA,5,0,,,,

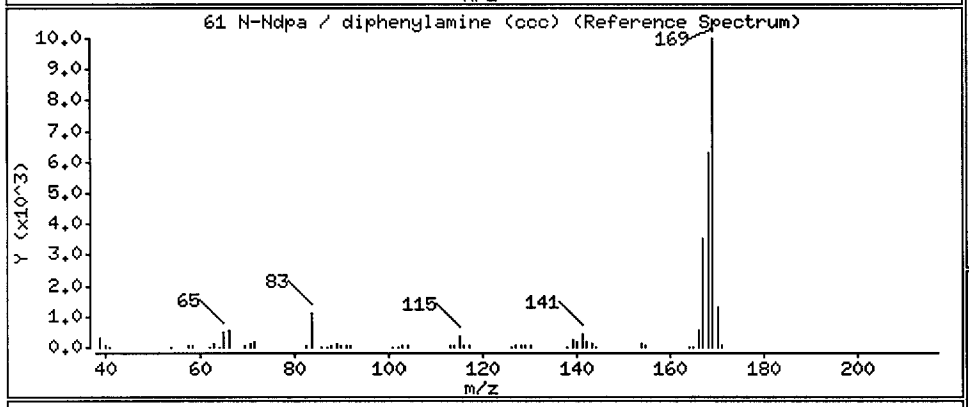
Volume Injected (uL): 1.0 | Operator: 60841

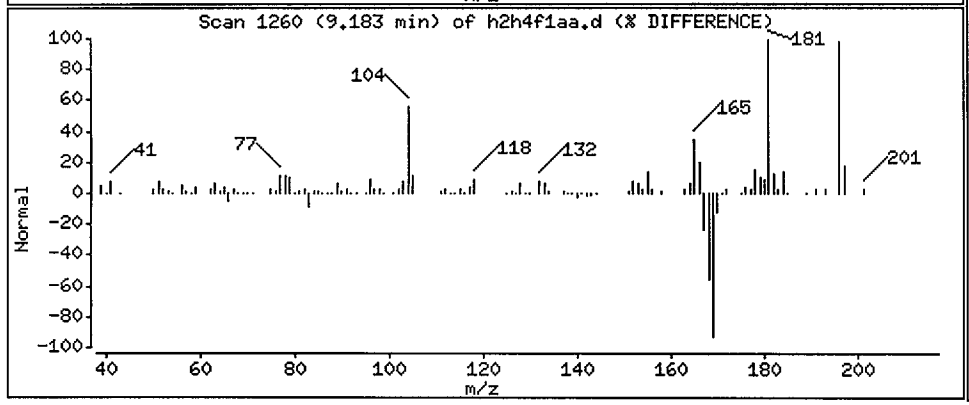
Column phase: ZB-5 | Column diameter: 0.25

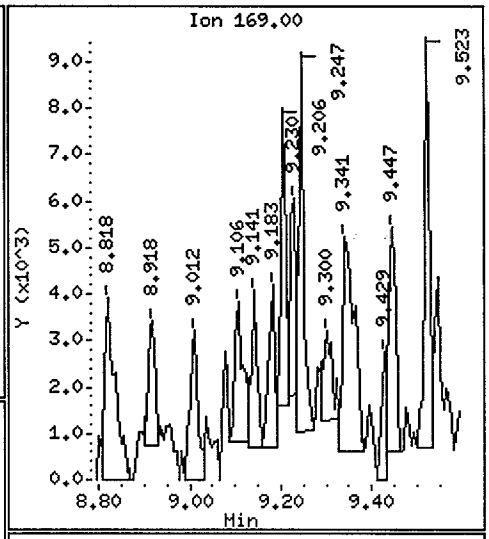
61 N-Ndpa / diphenylamine (ccc) | Concentration: 115 ug/Kg

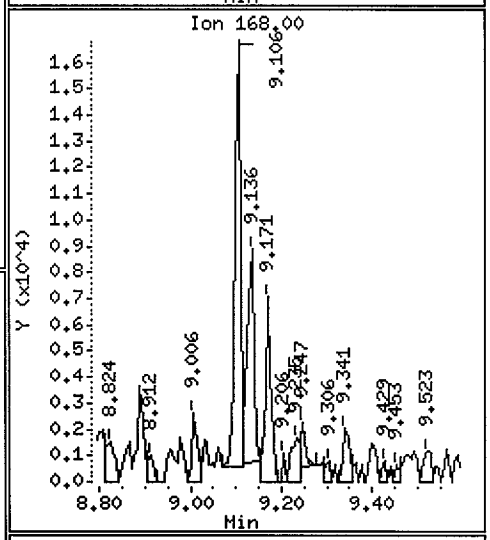


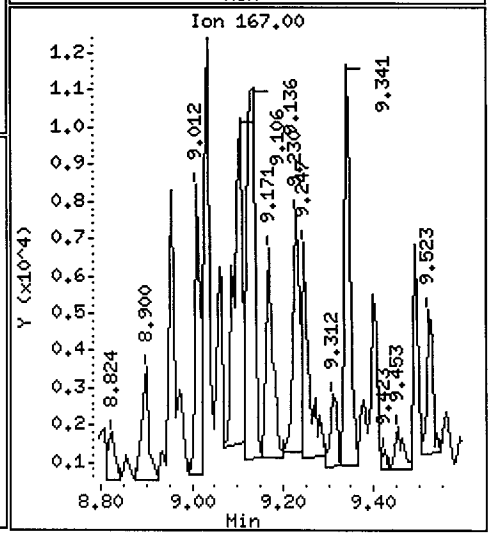












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

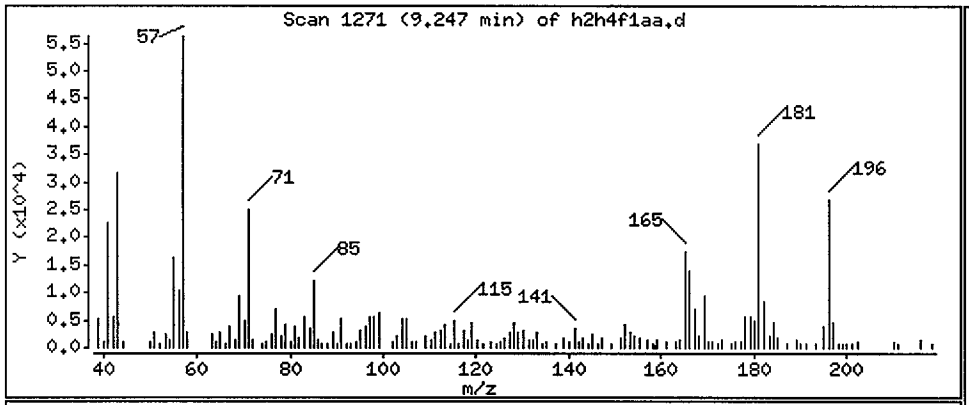
Operator: 60841

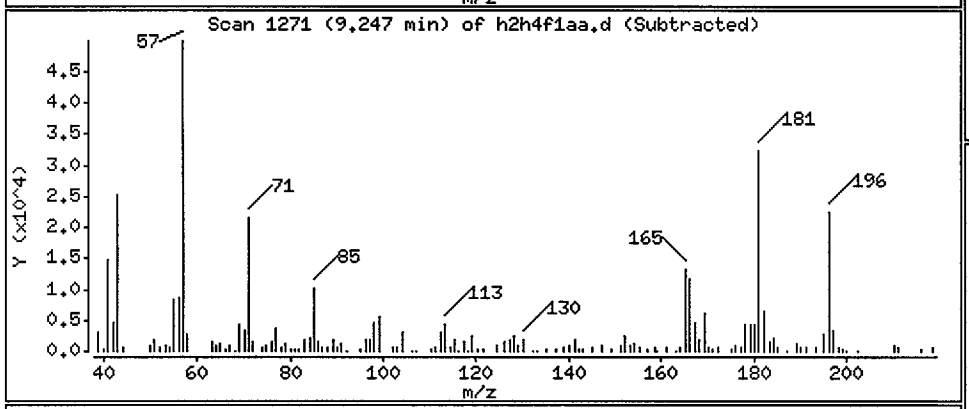
Column phase: ZB-5

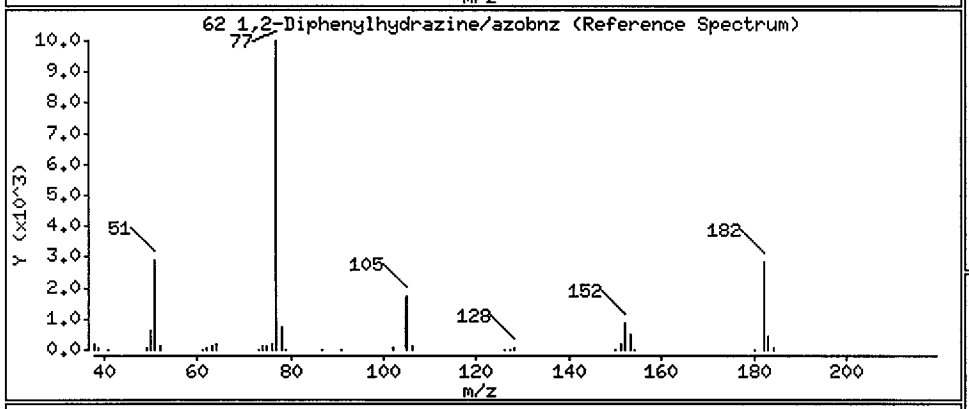
Column diameter: 0.25

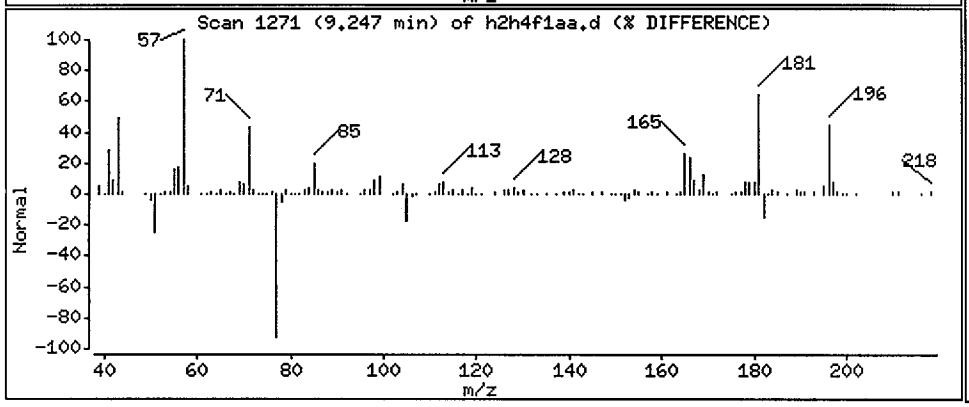
62 1,2-Diphenylhydrazine/azobnz

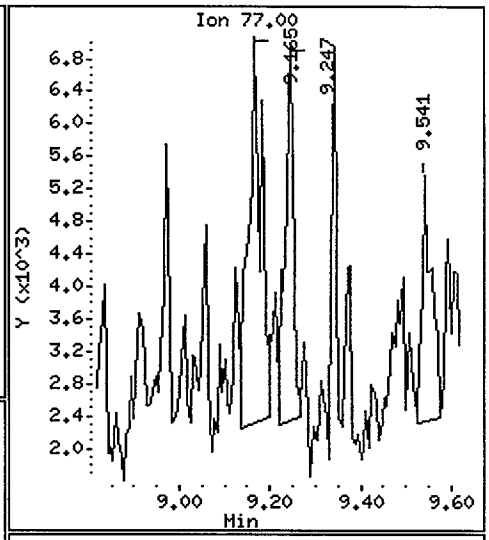
Concentration: 127 ug/Kg

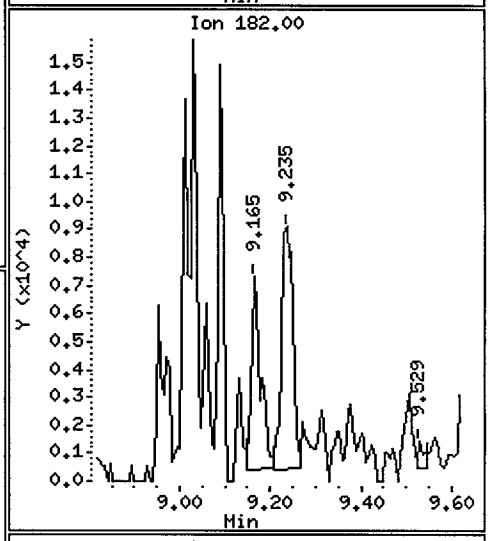


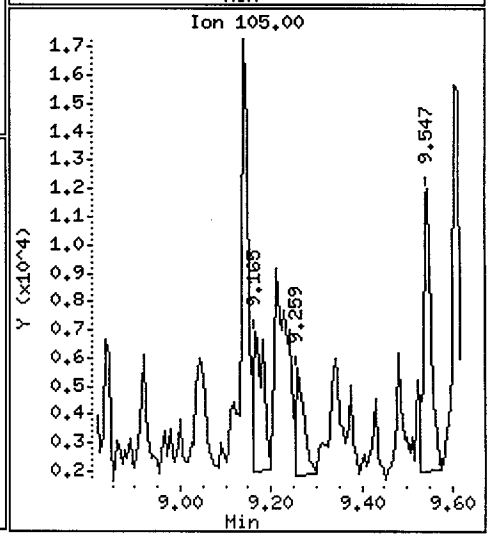












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

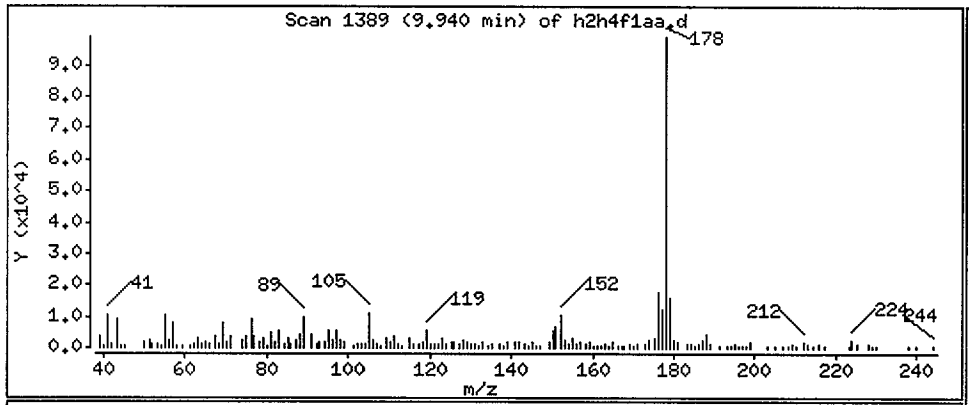
Operator: 60841

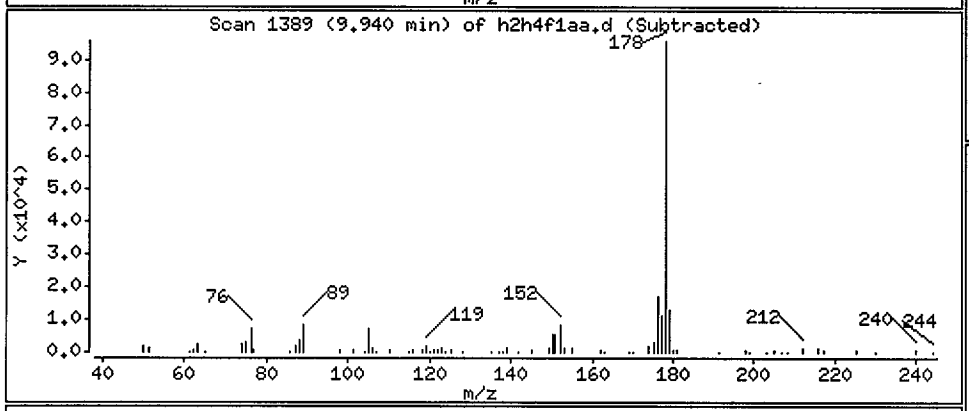
Column phase: ZB-5

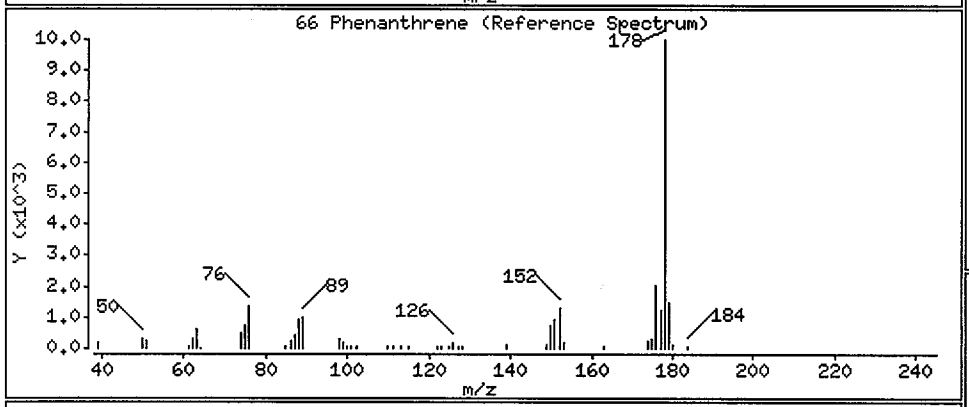
Column diameter: 0.25

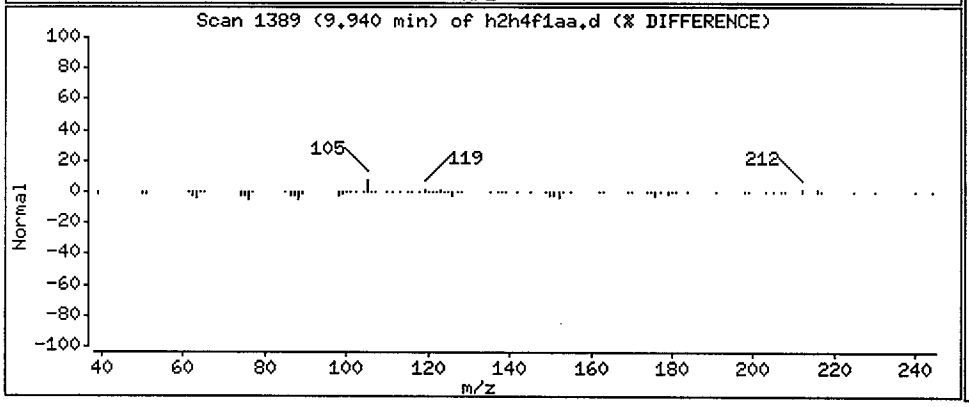
66 Phenanthrene

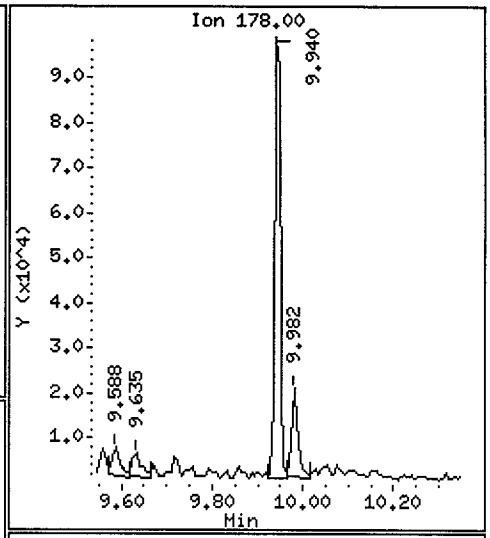
Concentration: 1110 ug/Kg

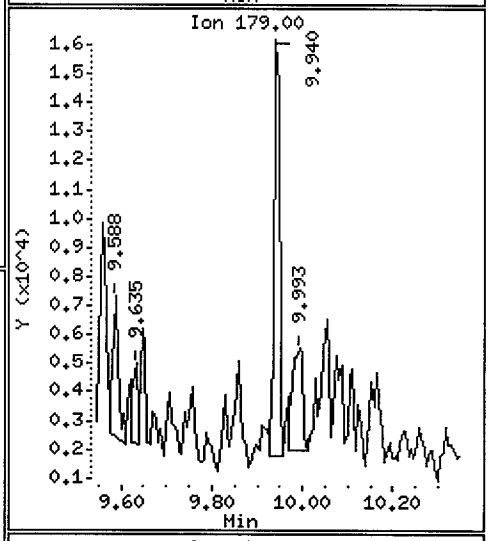


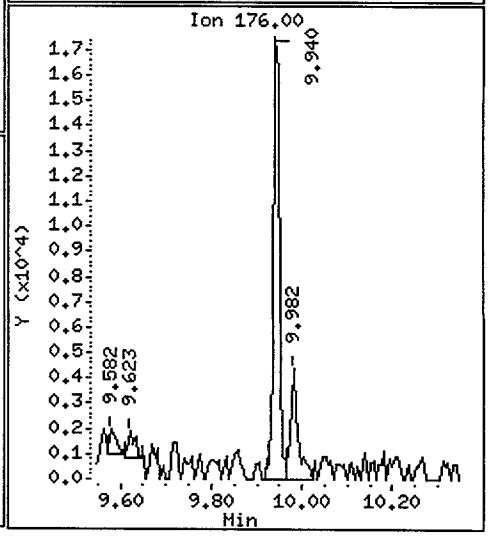












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

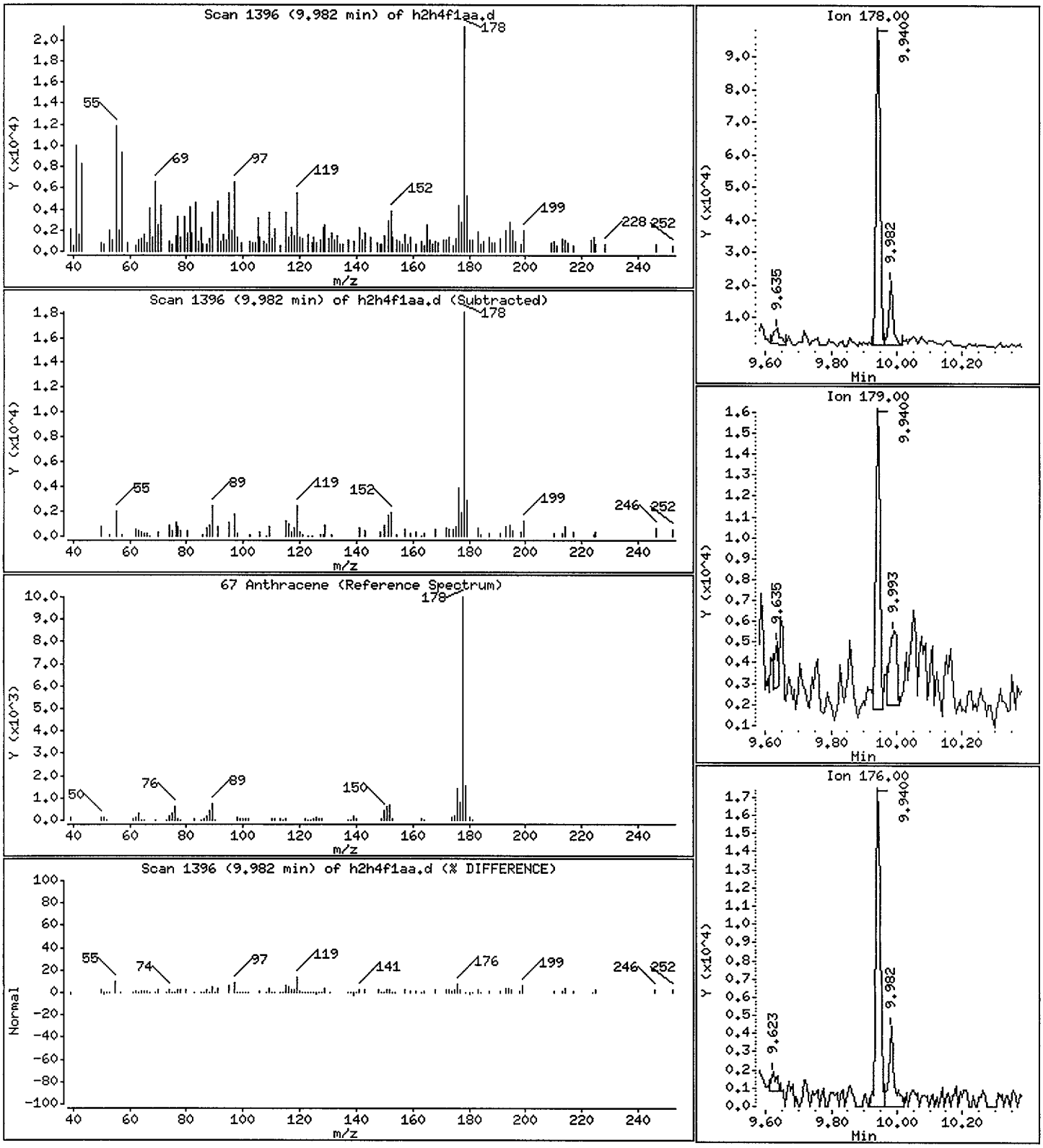
Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

67 Anthracene

Concentration: 235 ug/Kg



Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

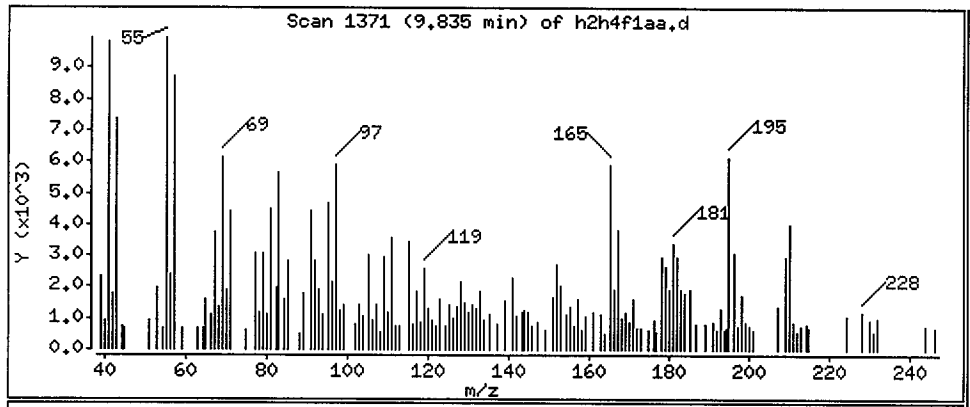
Operator: 60841

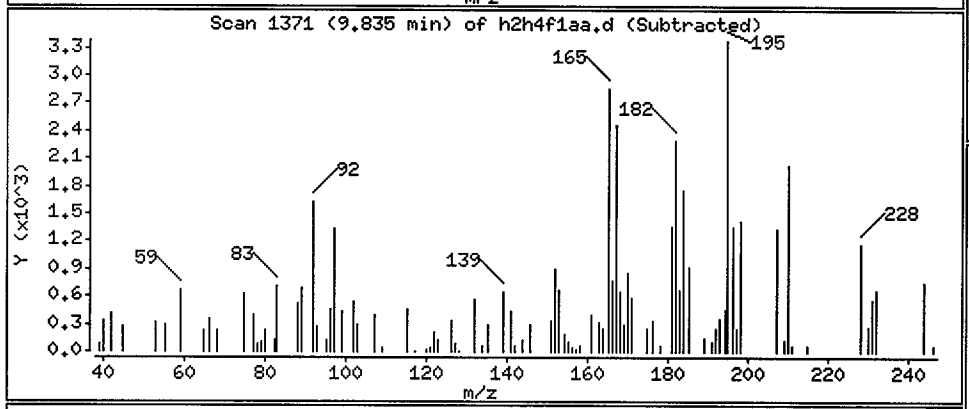
Column phase: ZB-5

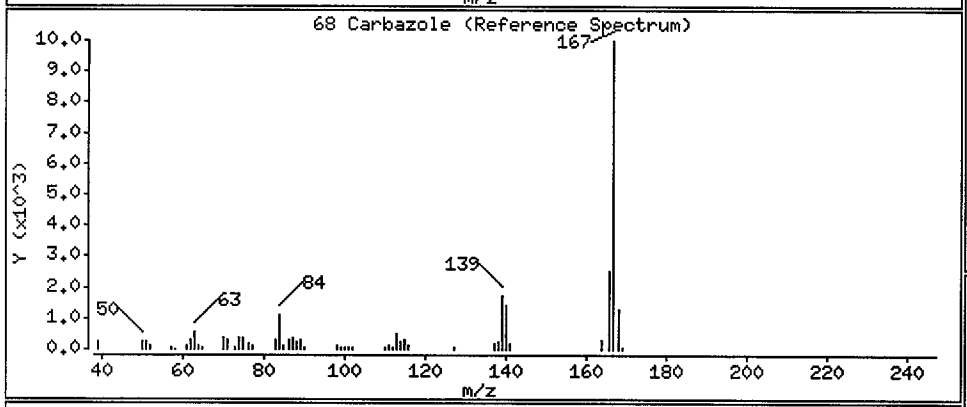
Column diameter: 0.25

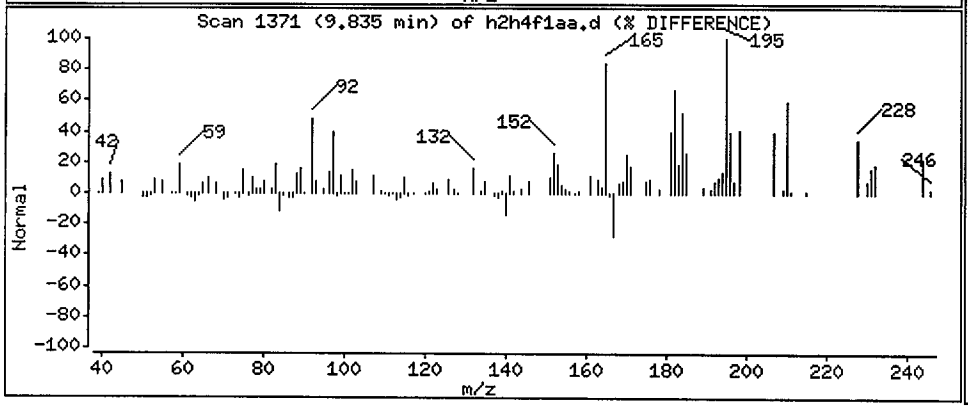
68 Carbazole

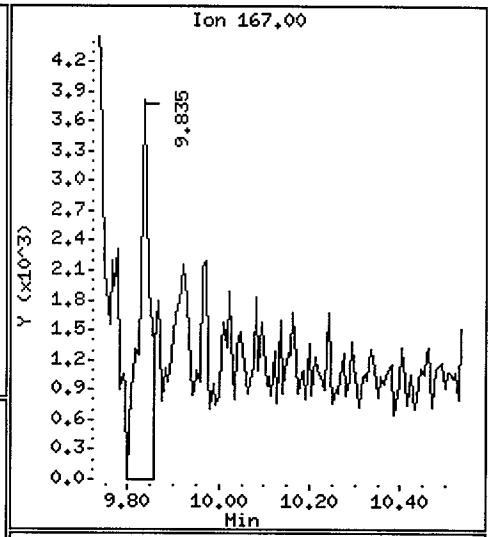
Concentration: 92.3 ug/Kg

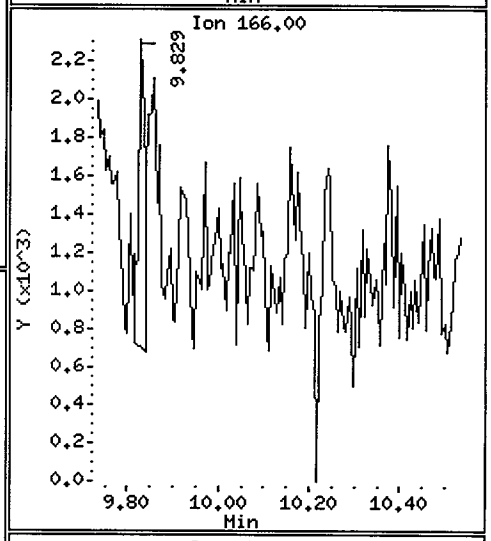


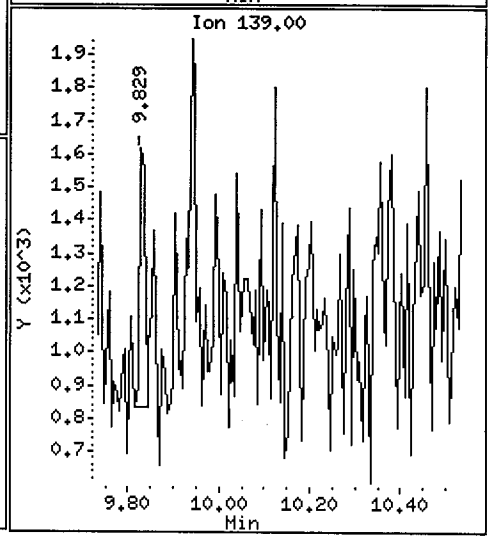












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

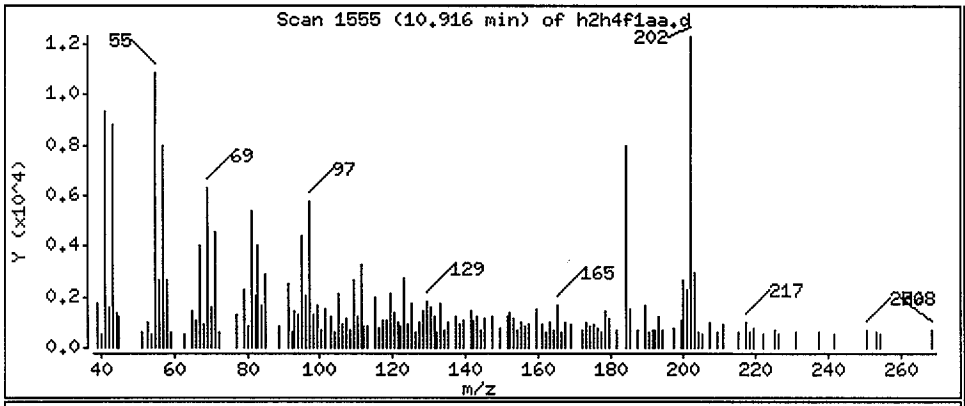
Operator: 60841

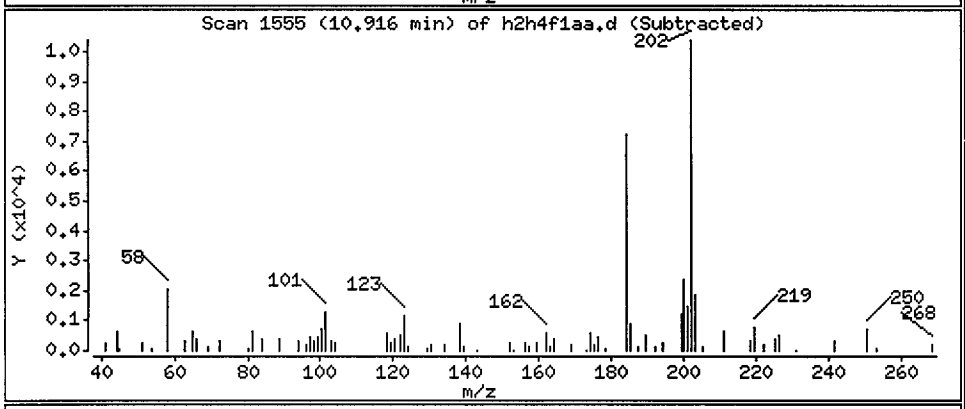
Column phase: ZB-5

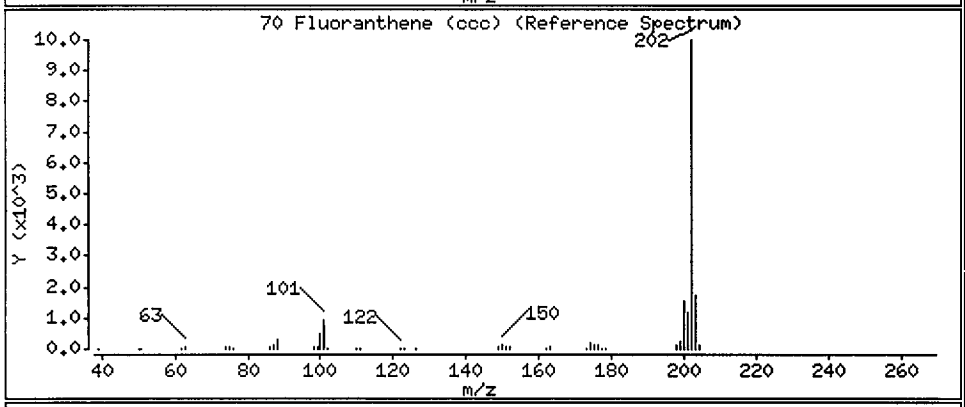
Column diameter: 0.25

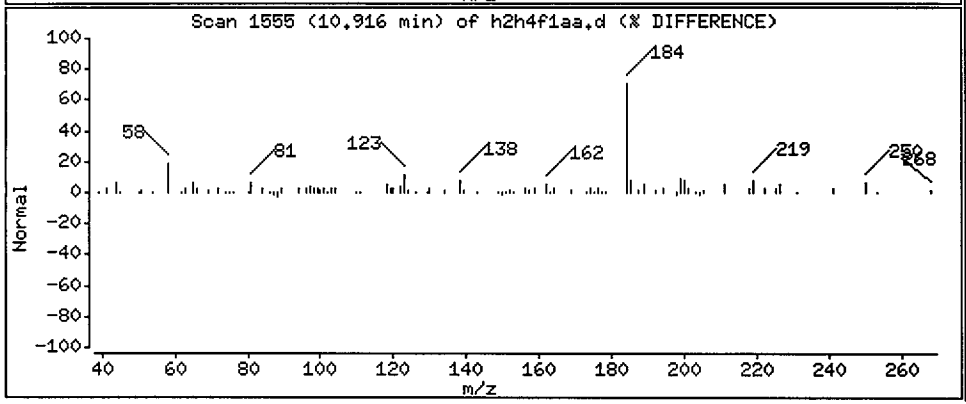
70 Fluoranthene (ccc)

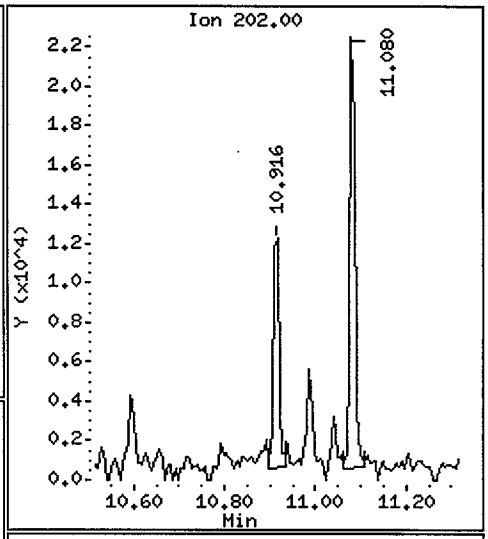
Concentration: 132 ug/Kg

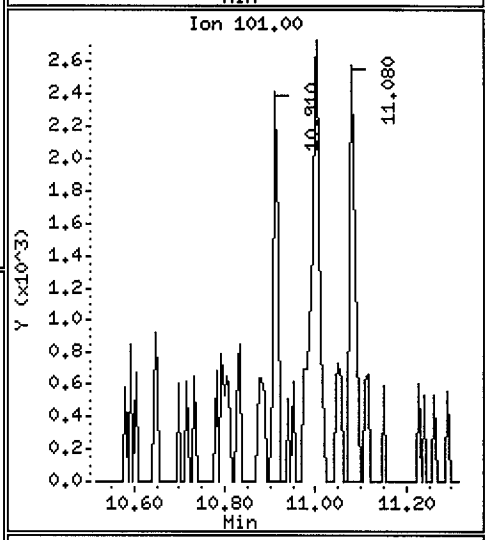


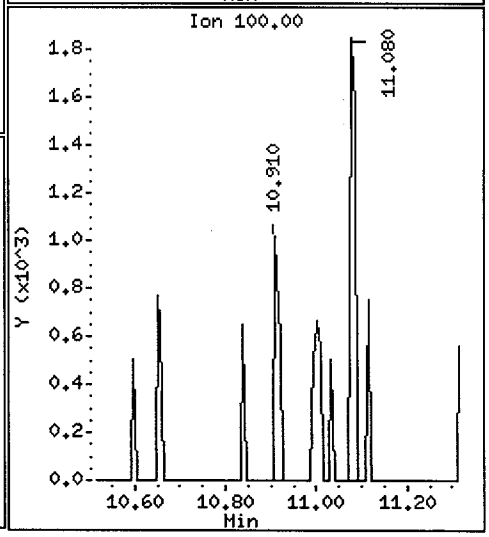












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

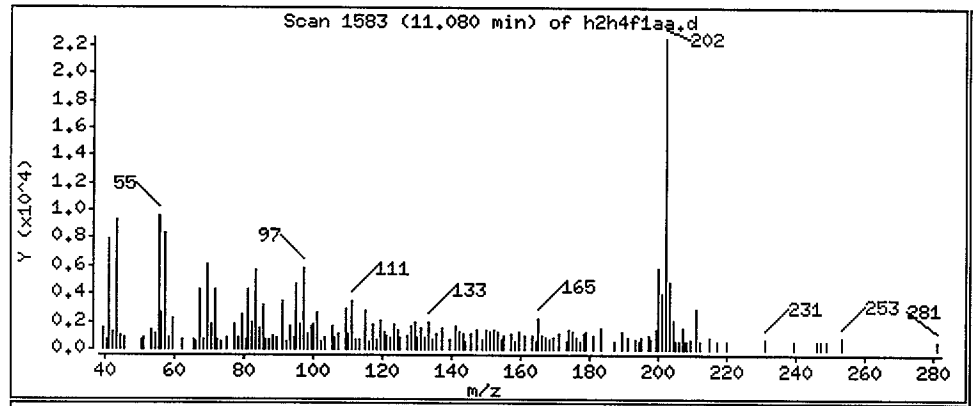
Operator: 60841

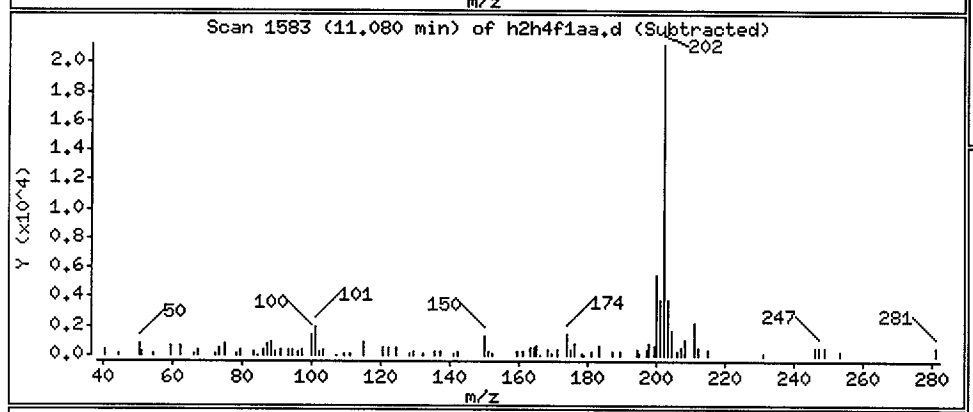
Column phase: ZB-5

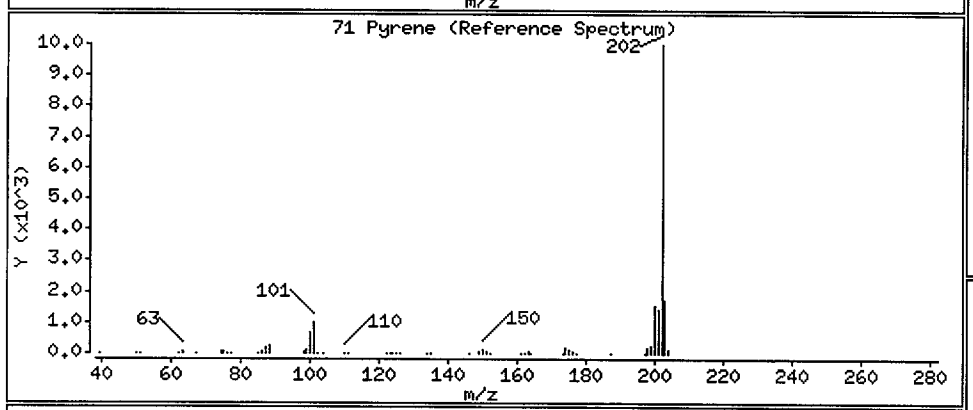
Column diameter: 0.25

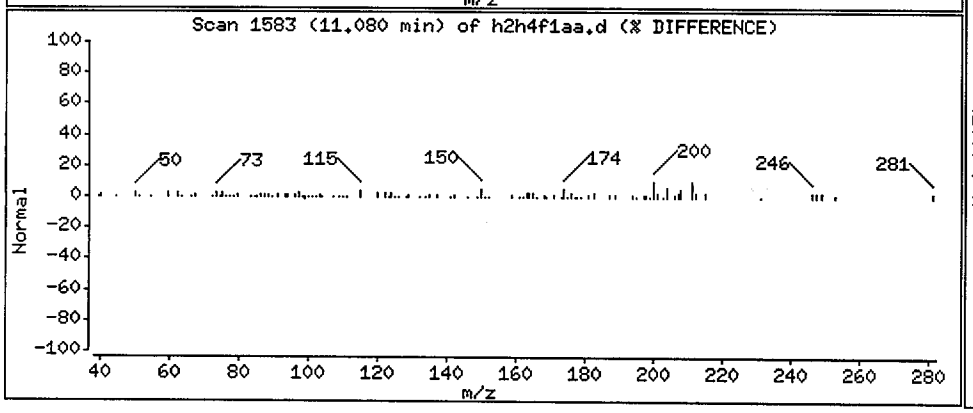
71 Pyrene

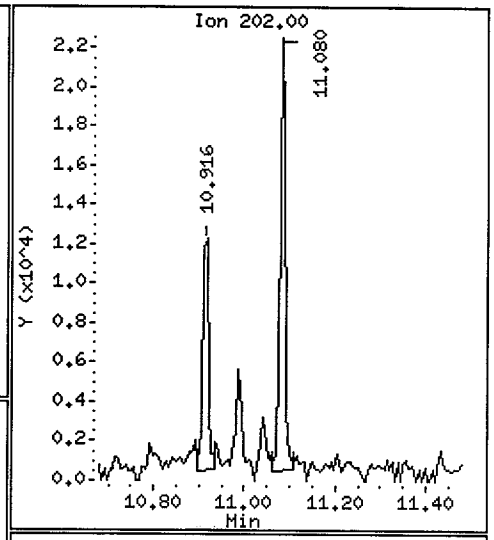
Concentration: 216 ug/Kg

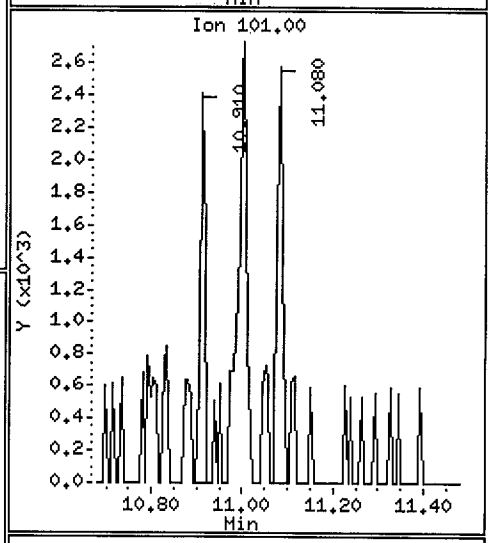


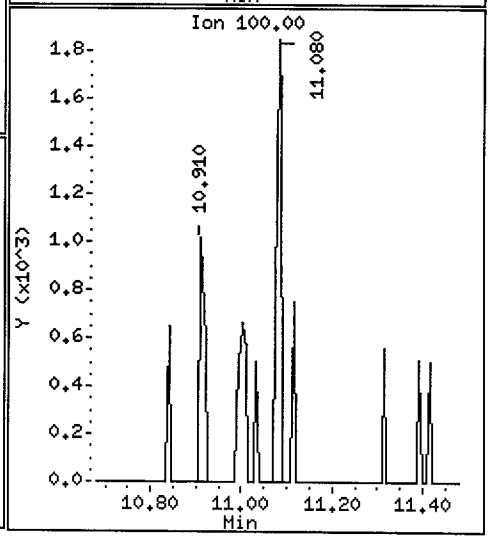












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

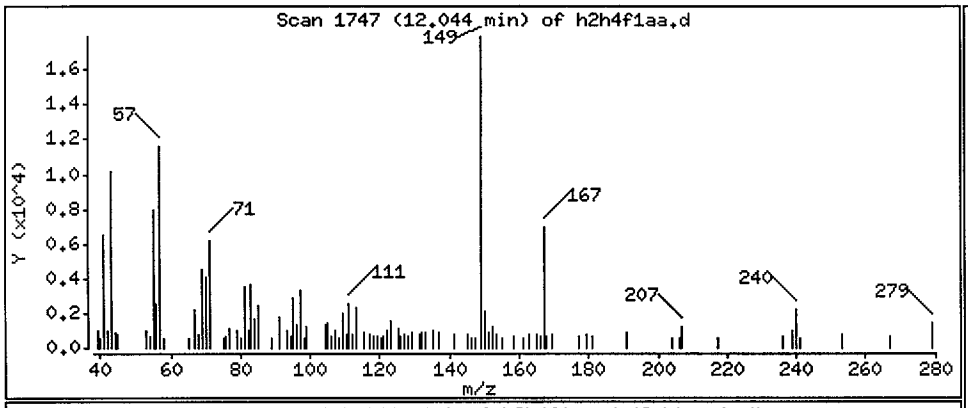
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

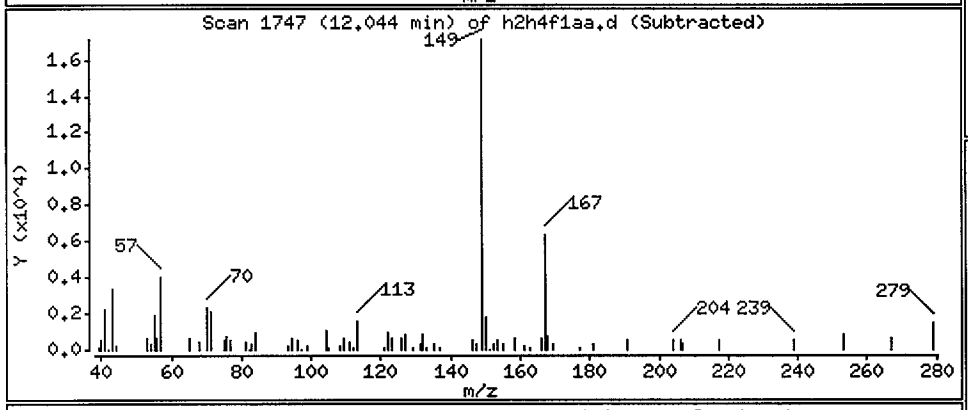
Sample Info: H2H4F1AA,5,0,,,,

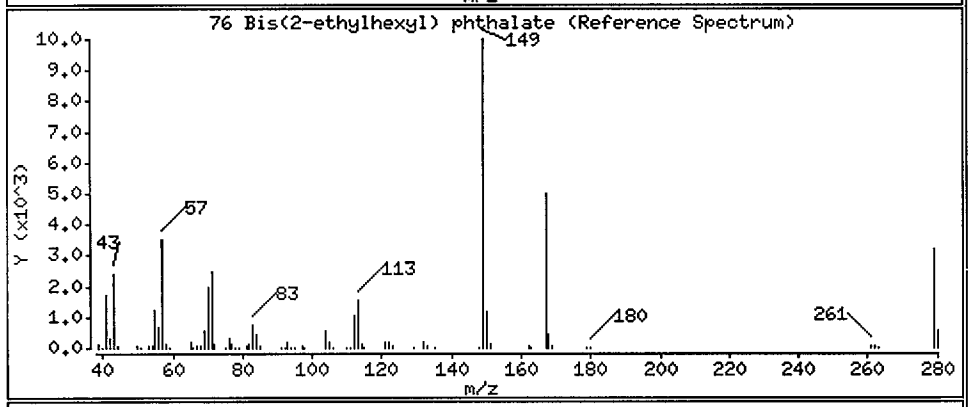
Volume Injected (uL): 1.0 | Operator: 60841

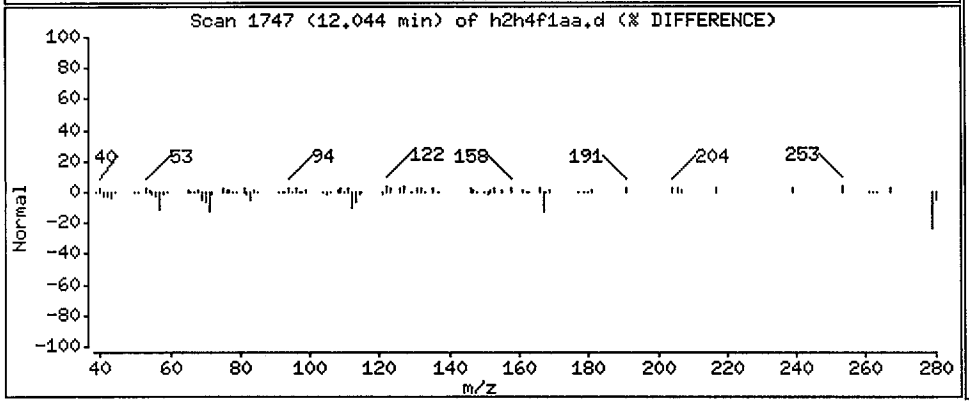
Column phase: ZB-5 | Column diameter: 0.25

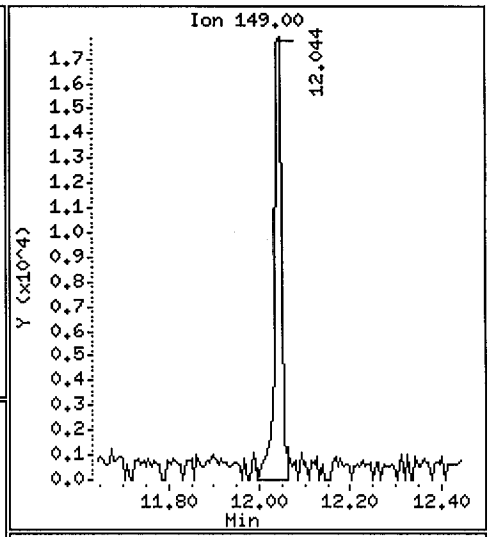
76 Bis(2-ethylhexyl) phthalate | Concentration: 414 ug/Kg

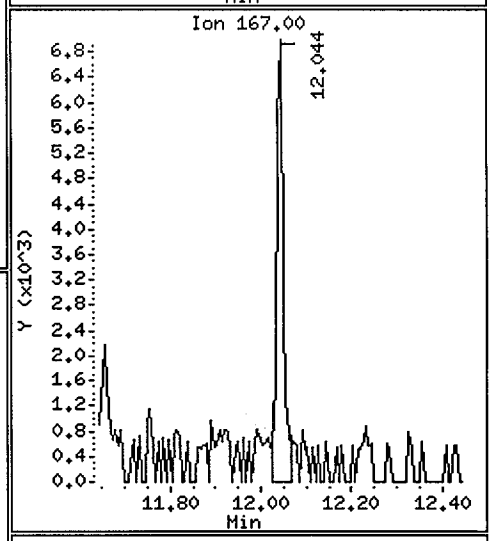


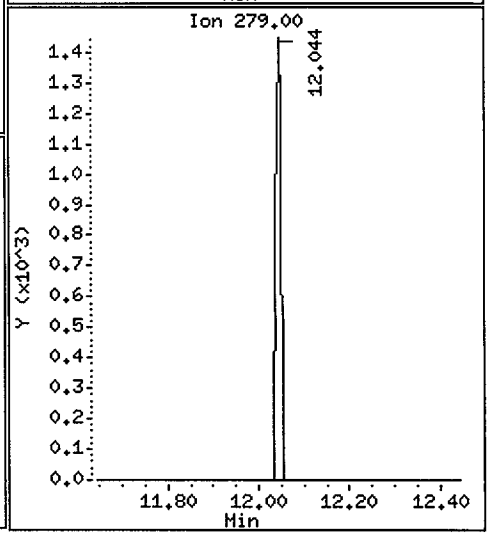












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

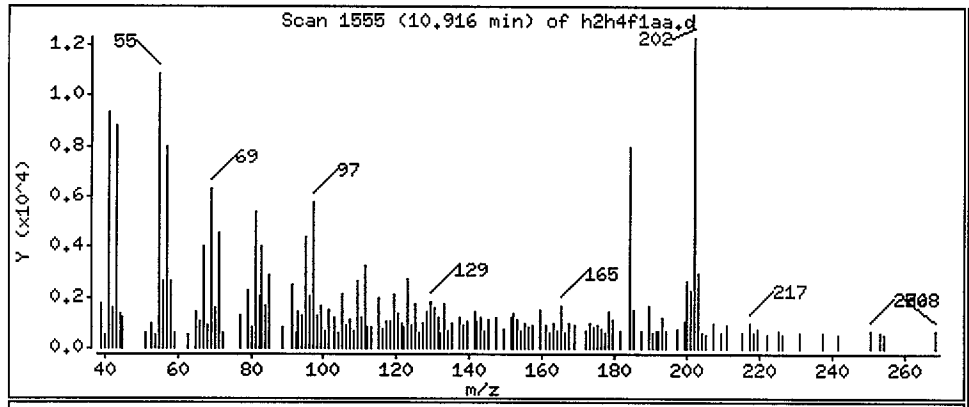
Operator: 60841

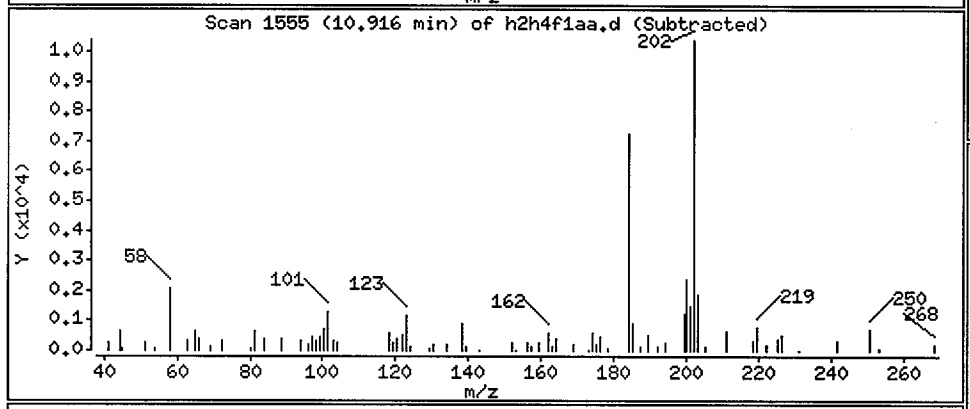
Column phase: ZB-5

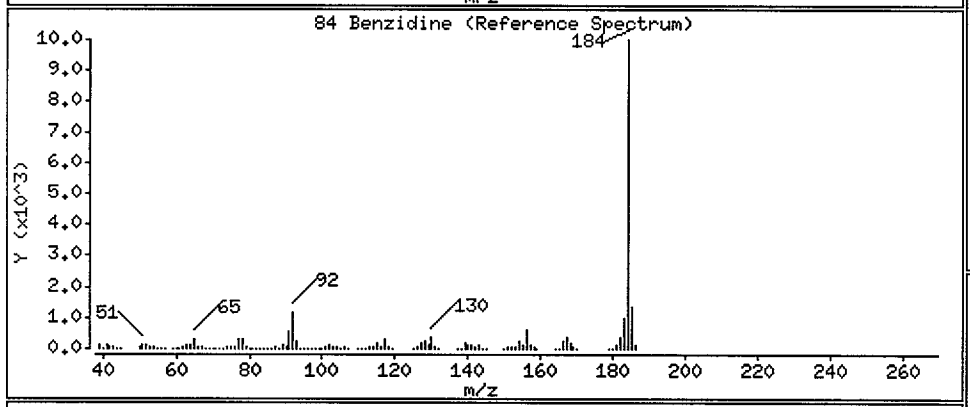
Column diameter: 0.25

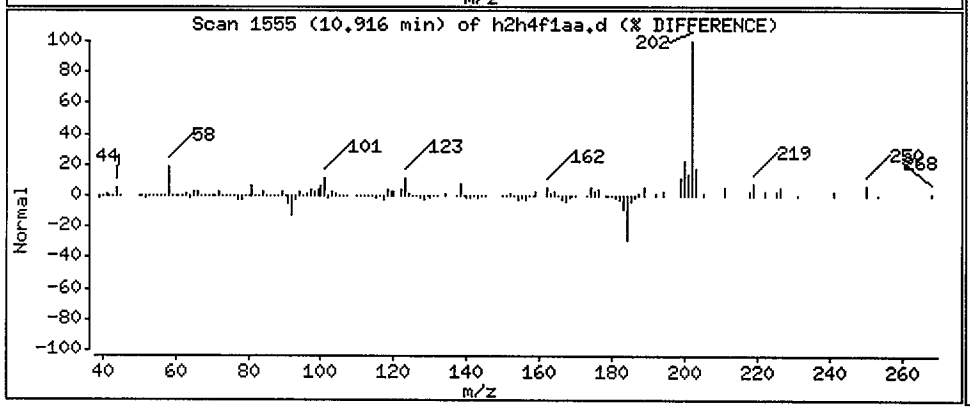
84 Benzidine

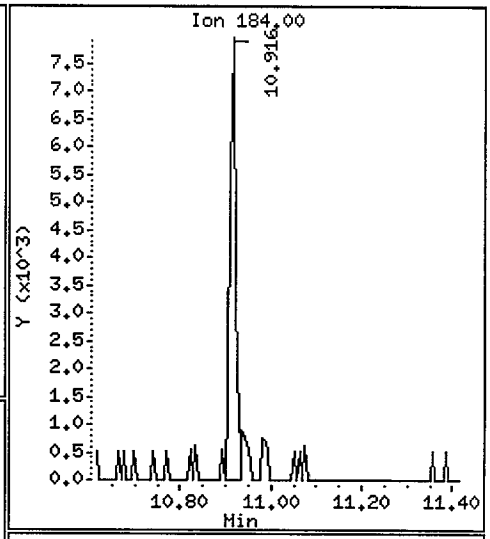
Concentration: 141 ug/Kg

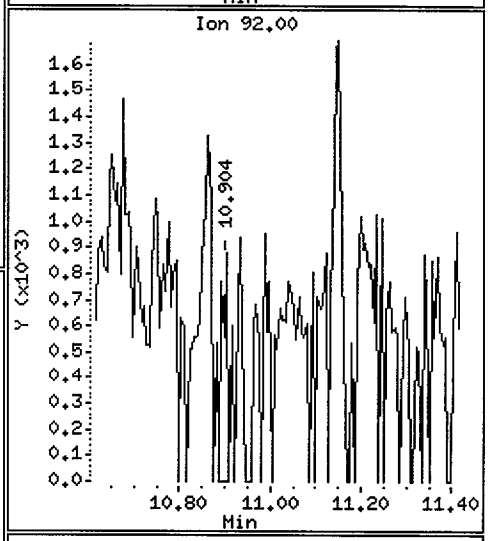


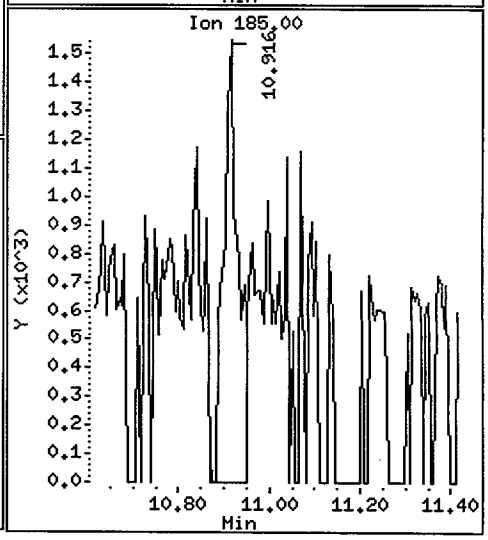












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

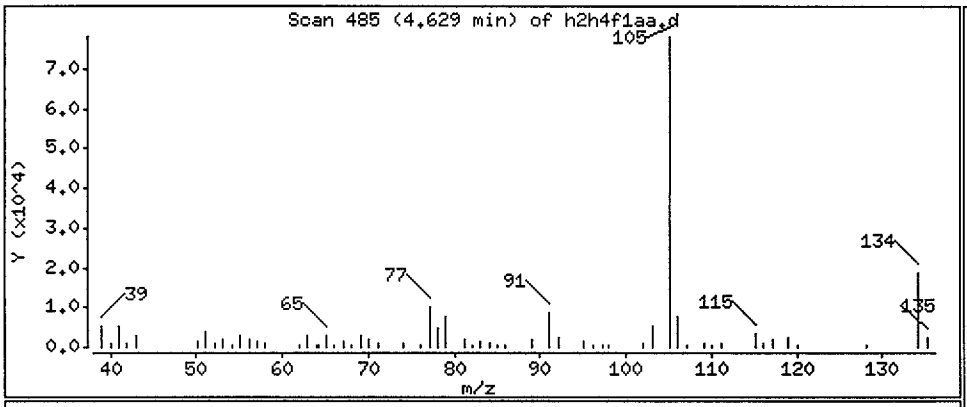
Operator: 60841

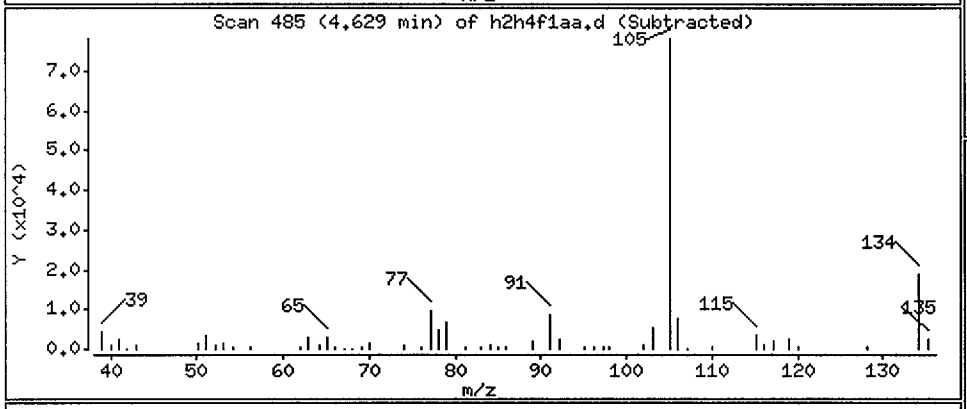
Column phase: ZB-5

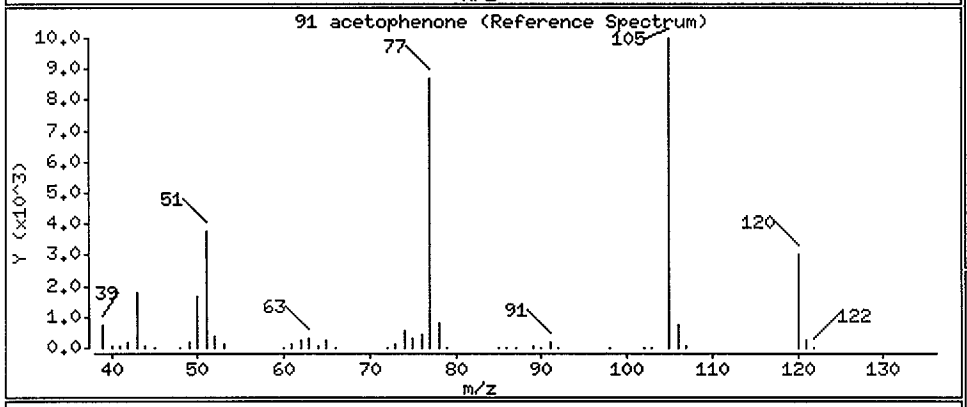
Column diameter: 0.25

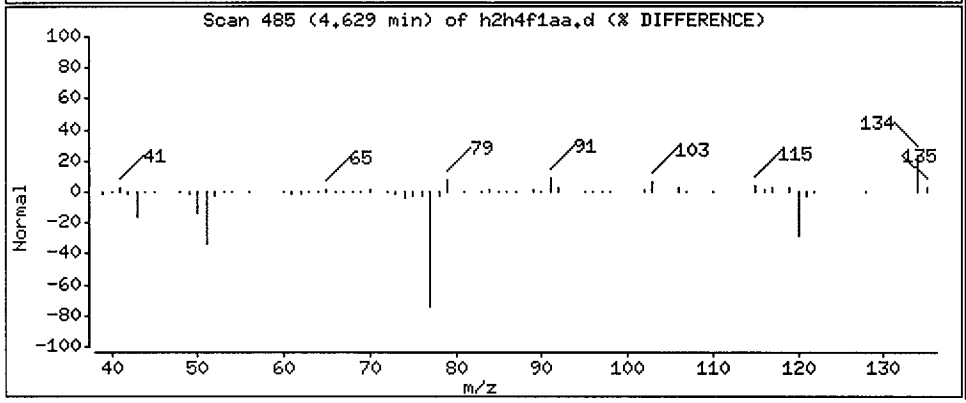
91 acetophenone

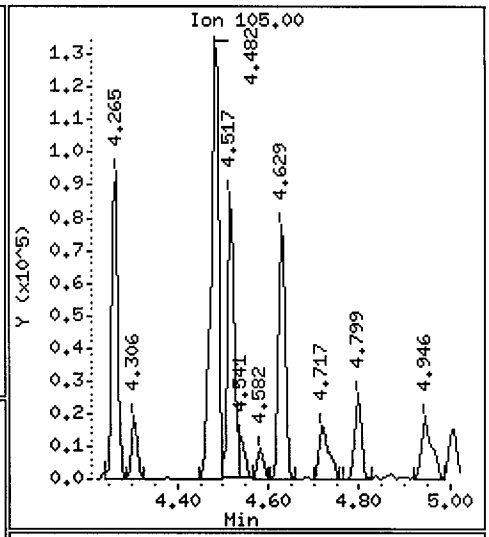
Concentration: 2760 ug/Kg

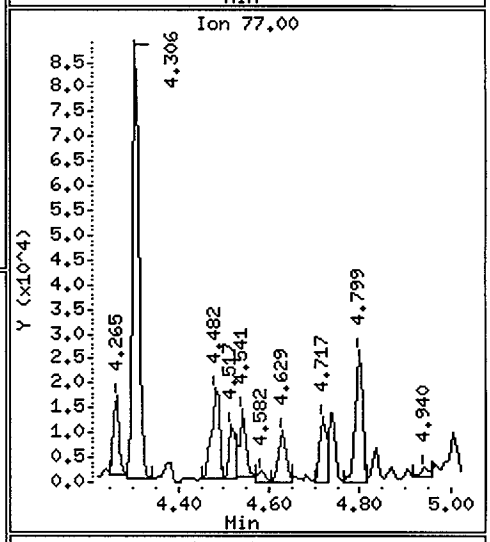


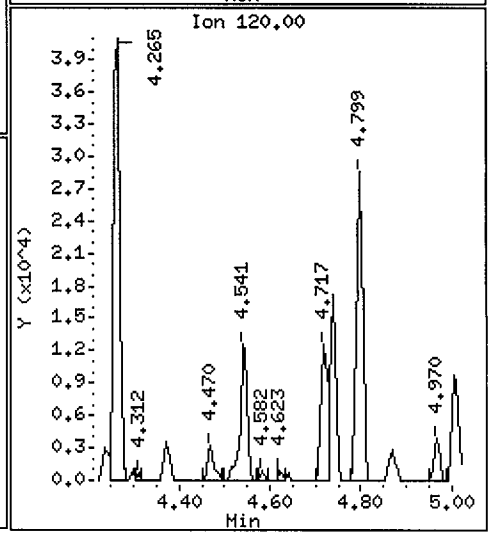












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

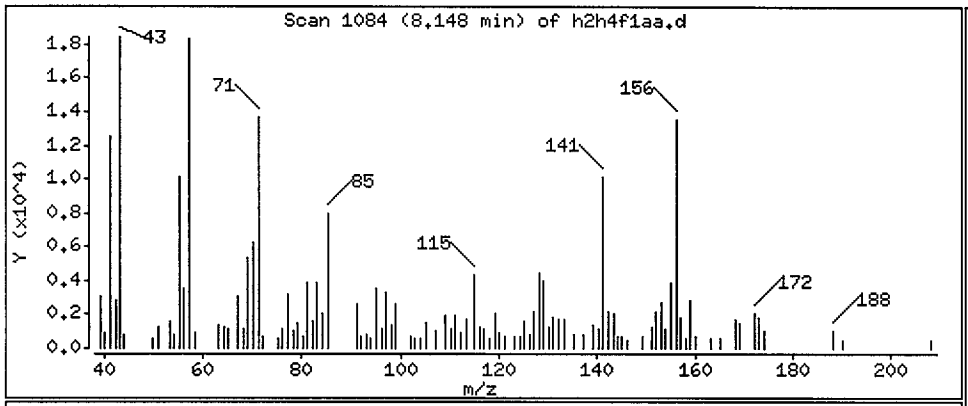
Operator: 60841

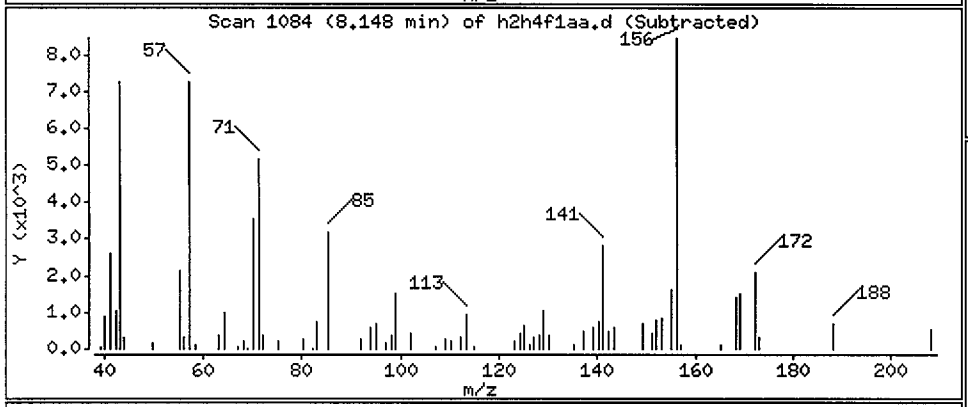
Column phase: ZB-5

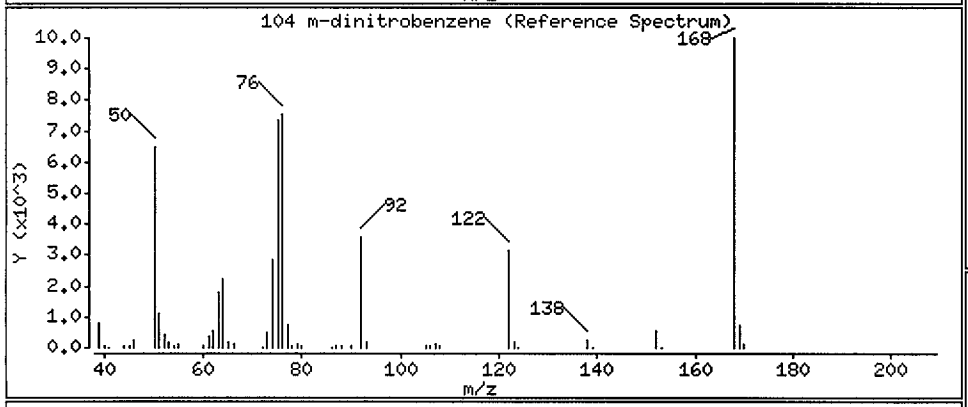
Column diameter: 0.25

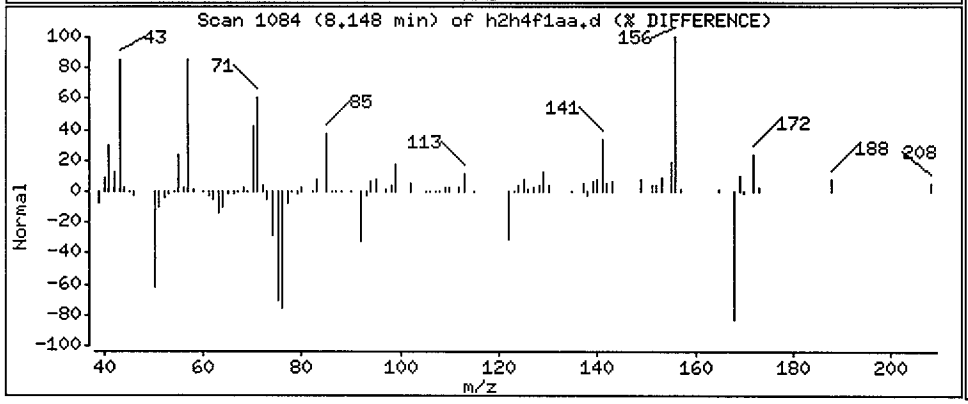
104 m-dinitrobenzene

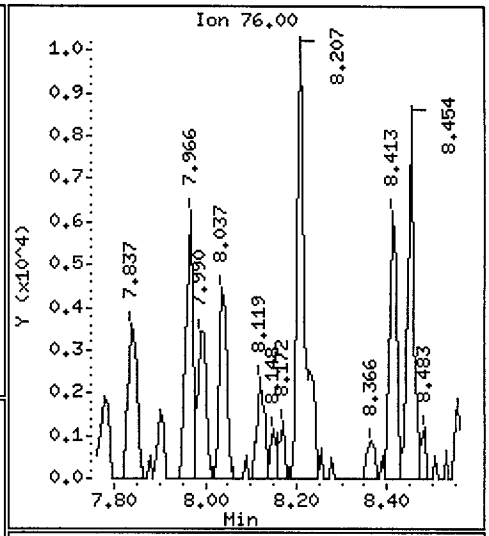
Concentration: 204 ug/Kg

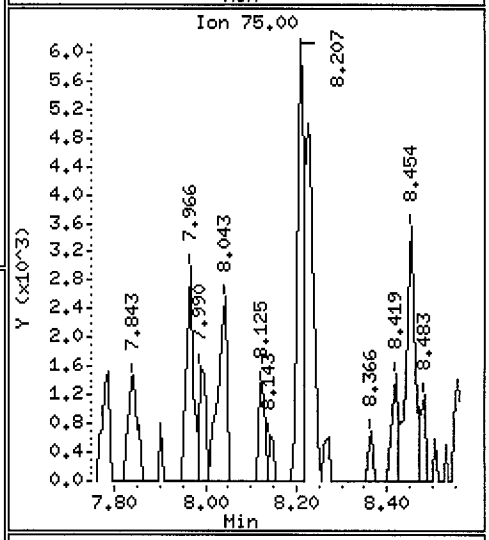


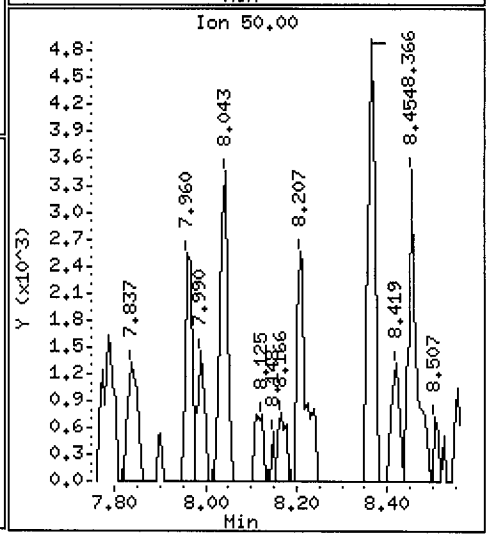












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0

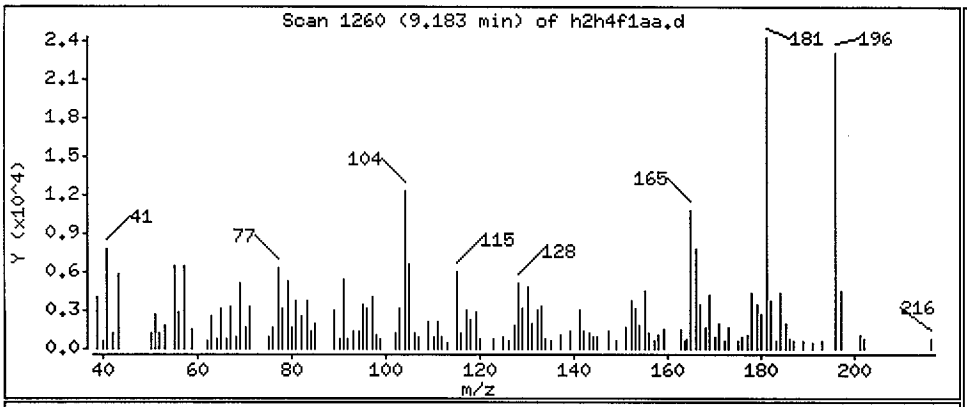
Operator: 60841

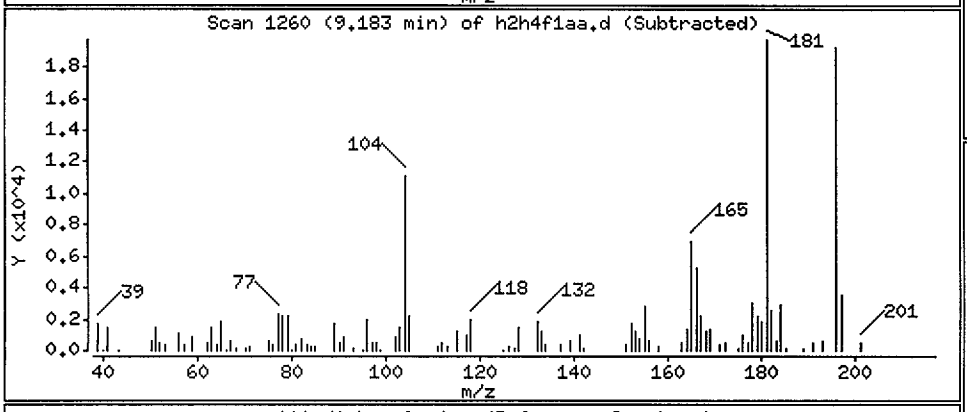
Column phase: ZB-5

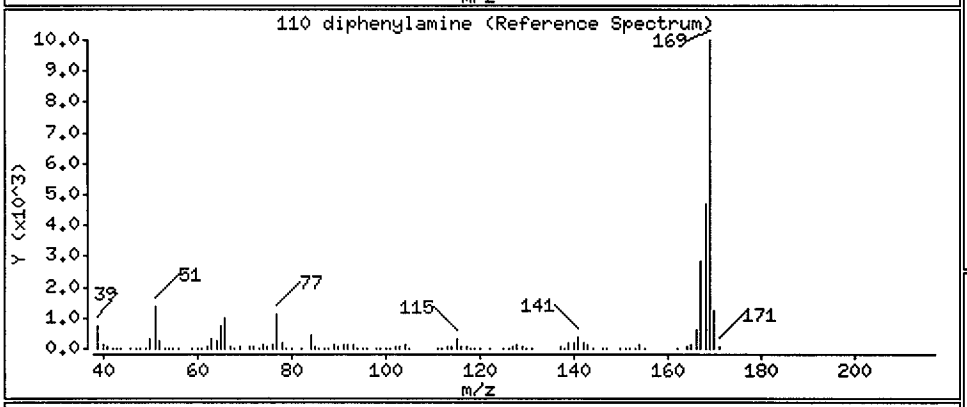
Column diameter: 0.25

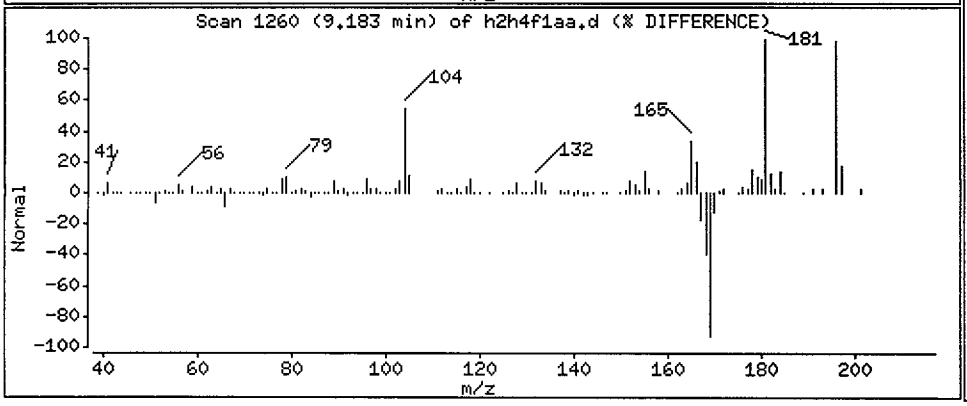
110 diphenylamine

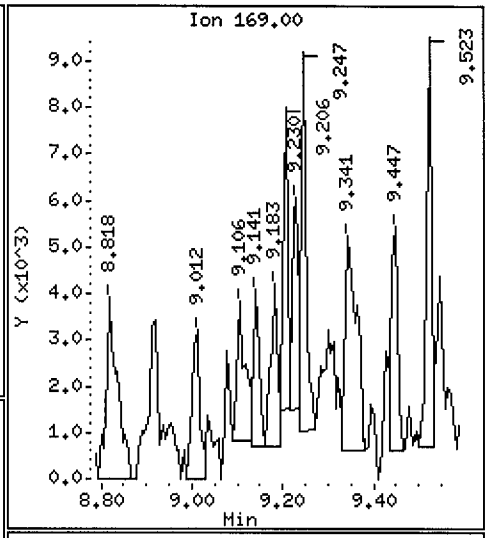
Concentration: 97.2 ug/Kg

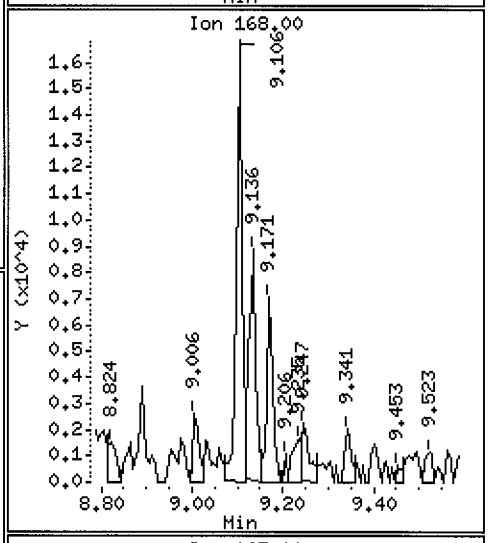


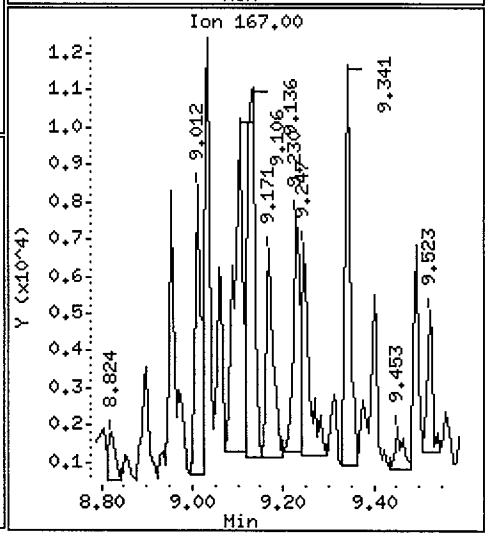












Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 15:15

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Lab Smp Id: H2H4F1AA Client Smp ID: G-3071-R3-SPENT ACT
Inj Date : 18-APR-2006 13:17
Operator : 60841 Inst ID: md.i
Smp Info : H2H4F1AA,5,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 8
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.165	483043	20.000
* 2 Naphthalene-d8	5.751	1170980	20.000
* 3 Acenaphthene-d10	8.413	861733	20.000
* 4 Phenanthrene-d10	9.923	754783	20.000
* 5 Chrysene-d12	12.003	625392	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #

Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 15:15

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Toluene					CAS #: 108-88-3		
2.232	1820104	75.3599162	12600	95	NIST05.l	2400	1
Tetrachloroethylene					CAS #: 127-18-4		
2.537	1786552	73.9707231	12300	99	NIST05.l	32248	1
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
2.766	10329697	427.692648	71300	56	NIST05.l	7952	1
Ethylbenzene					CAS #: 100-41-4		
2.937	639843	26.4921756	4420	95	NIST05.l	4955	1
p-Xylene					CAS #: 106-42-3		
2.996	2084819	86.3202241	14400	97	NIST05.l	4950	1
Styrene					CAS #: 100-42-5		
3.172	1400504	57.9867217	9660	95	NIST05.l	4749	1
Ethylbenzene					CAS #: 100-41-4		
3.195	888359	36.7817772	6130	90	NIST05.l	4957	1
Benzene, (1-methylethyl)-					CAS #: 98-82-8		
3.448	787069	32.5879477	5430	91	NIST05.l	9121	1
Benzene, 1-ethyl-2-methyl-					CAS #: 611-14-3		
3.748	561329	23.2413677	3870	95	NIST05.l	9132	1
Decane					CAS #: 124-18-5		
4.024	1030000	42.6463069	7110	89	NIST05.l	18486	1
Benzene, 1,2-diethyl-					CAS #: 135-01-3		
4.265	427126	17.6848024	2950	76	NIST05.l	14355	1
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden					CAS #: 4488-57-7		
4.306	3039715	125.856911	21000	64	NIST05.l	14445	1
Benzene, 1-methyl-3-propyl-					CAS #: 1074-43-7		
4.482	373735	15.4741917	2580	95	NIST05.l	14371	1
Benzene, 1-ethyl-2,4-dimethyl-					CAS #: 874-41-9		
4.547	368114	15.2414588	2540	94	NIST05.l	14394	1
Benzene, 2-ethyl-1,3-dimethyl-					CAS #: 2870-04-4		
4.741	410980	17.0162905	2840	95	NIST05.l	14392	1

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Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d
Report Date: 19-Apr-2006 15:15

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Undecane					CAS #: 1120-21-4		
4.882	430700	17.8327809	2970	91	NIST05.1	27240	1
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
5.099	525589	8.97690823	1500	97	NIST05.1	14385	2
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
5.140	990406	16.9158483	2820	97	NIST05.1	14385	2
Benzene, 1-methyl-3-(1-methylethyl)-					CAS #: 535-77-3		
5.446	484737	8.27916788	1380	70	NIST05.1	14421	2
Dodecane					CAS #: 112-40-3		
5.810	503810	8.60492920	1430	87	NIST05.1	36431	2
Tridecane					CAS #: 629-50-5		
6.703	596132	10.1817623	1700	93	NIST05.1	46087	2
Naphthalene, 1-methyl-					CAS #: 90-12-0		
6.944	937814	16.0175921	2670	95	NIST05.1	18566	2
Biphenyl					CAS #: 92-52-4		
7.602	411561	9.55193778	1590	93	NIST05.1	25992	3
Tetradecane					CAS #: 629-59-4		
7.684	859174	19.9406081	3320	97	NIST05.1	55975	3
Naphthalene, 2,3-dimethyl-					CAS #: 581-40-8		
7.966	393871	9.14136977	1520	97	NIST05.1	27298	3
Bacchotricuneatin c					CAS #: 66563-30-2		
8.178	403229	9.35856002	1560	98	NIST05.1	148777	3
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-te					CAS #: 1469-48-3		
8.366	344904	8.00489247	1330	96	NIST05.1	23909	3
Benzene, 1-methyl-4-(phenylmethyl)-					CAS #: 620-83-7		
8.677	361670	8.39401532	1400	96	NIST05.1	44688	3
Benzene, 1-methyl-2-[(3-methylphenyl)met					CAS #: 21895-13-6		
9.247	382526	10.1360523	1690	91	NIST05.1	54598	4
Ethanol, 2-butoxy-, phosphate (3:1)					CAS #: 78-51-3		
11.656	1310961	41.9244570	6990	68	NIST05.1	170615	5

Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

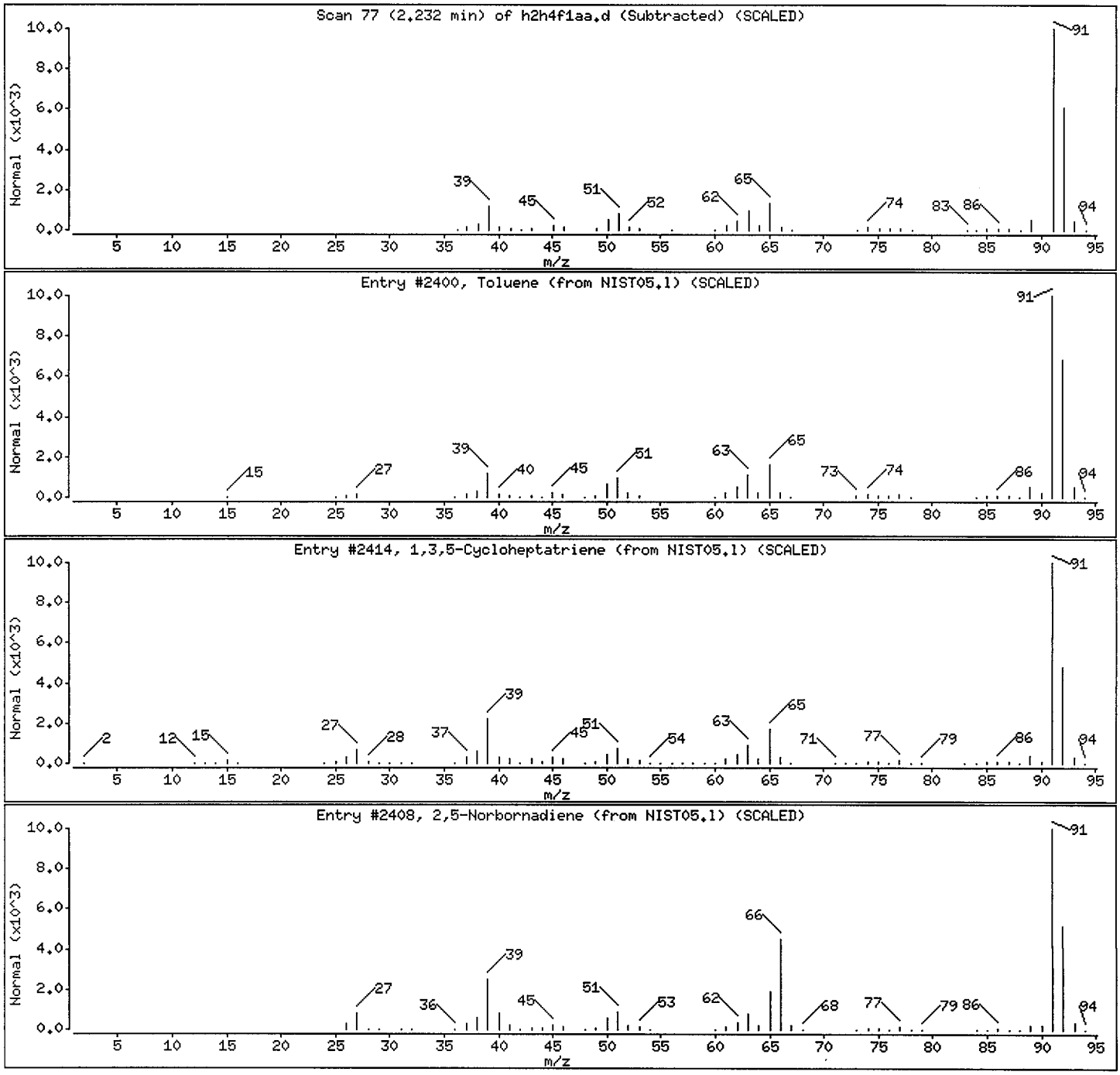
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	NIST05.1	2400	95	C7H8	92
1,3,5-Cycloheptatriene	544-25-2	NIST05.1	2414	90	C7H8	92
2,5-Norbornadiene	121-46-0	NIST05.1	2408	83	C7H8	92



Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

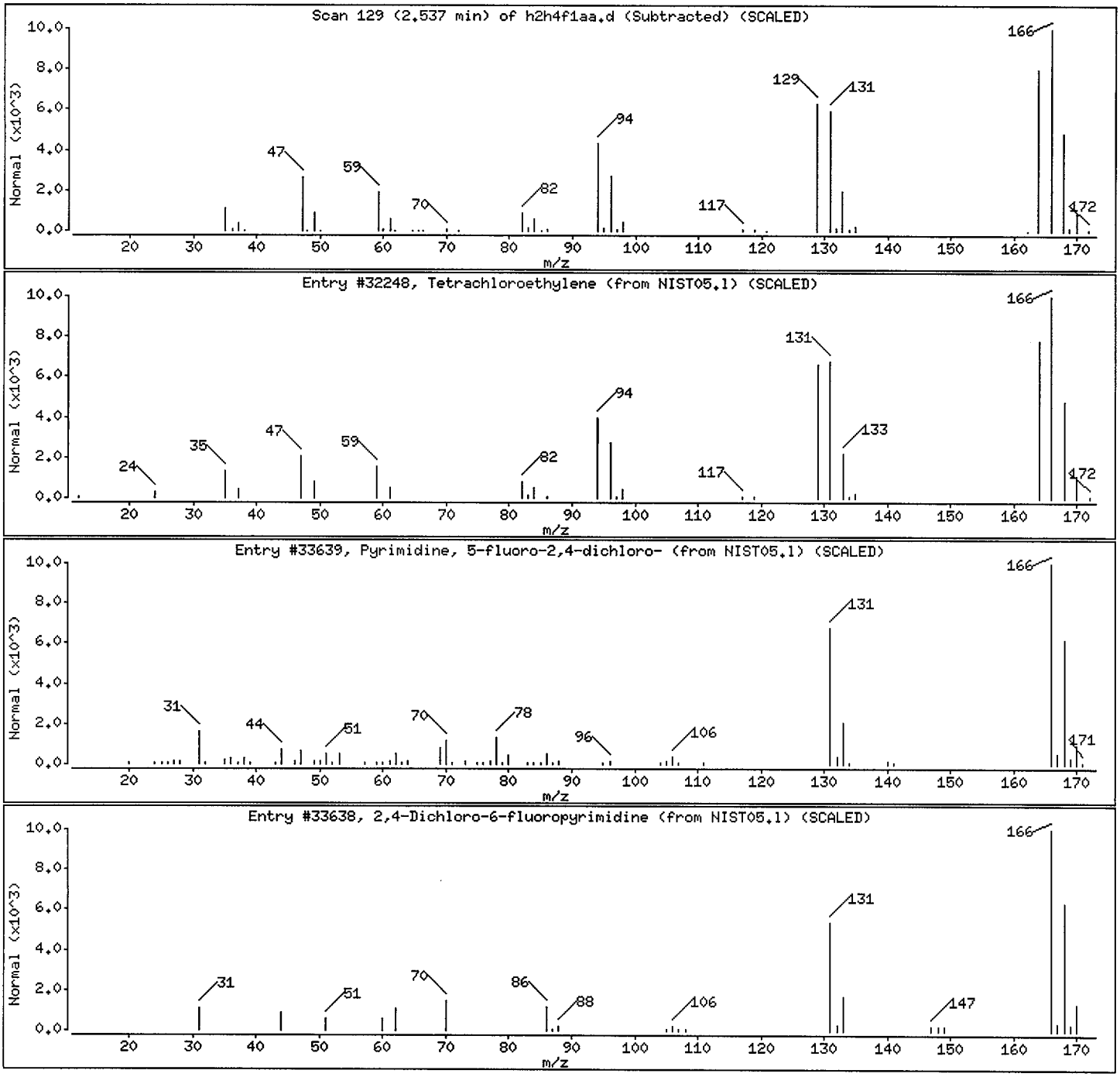
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetrachloroethylene	127-18-4	NIST05.1	32248	99	C2Cl4	164
Pyrimidine, 5-fluoro-2,4-dichloro-	2927-71-1	NIST05.1	33639	38	C4HCl2FN2	166
2,4-Dichloro-6-fluoropyrimidine	3833-57-6	NIST05.1	33638	35	C4HCl2FN2	166



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Date : 18-APR-2006 13:17

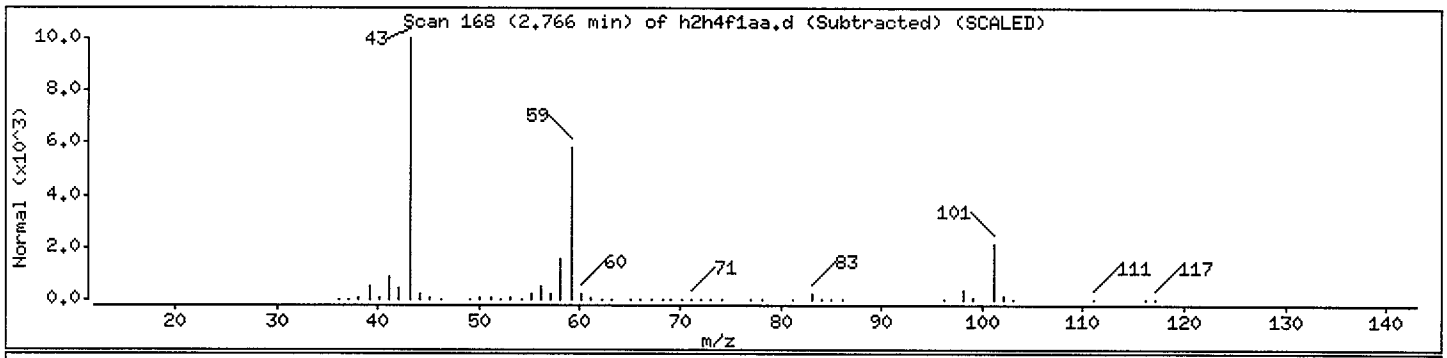
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

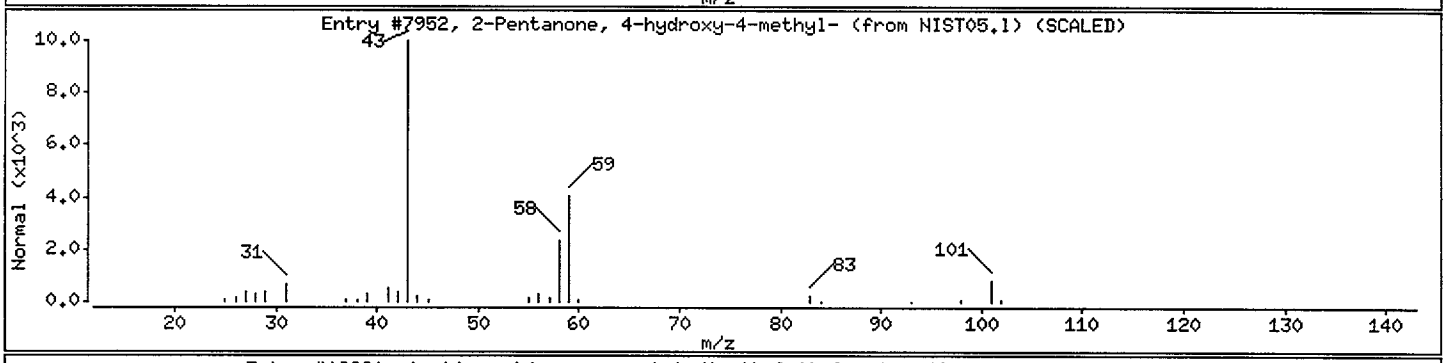
Sample Info: H2H4F1AA,5,0,,,,

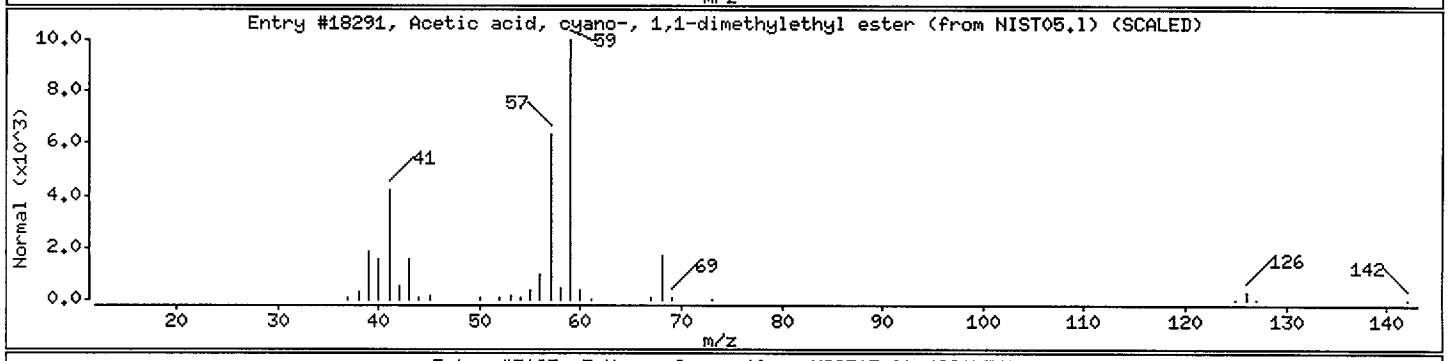
Volume Injected (uL): 1.0 | Operator: 60841

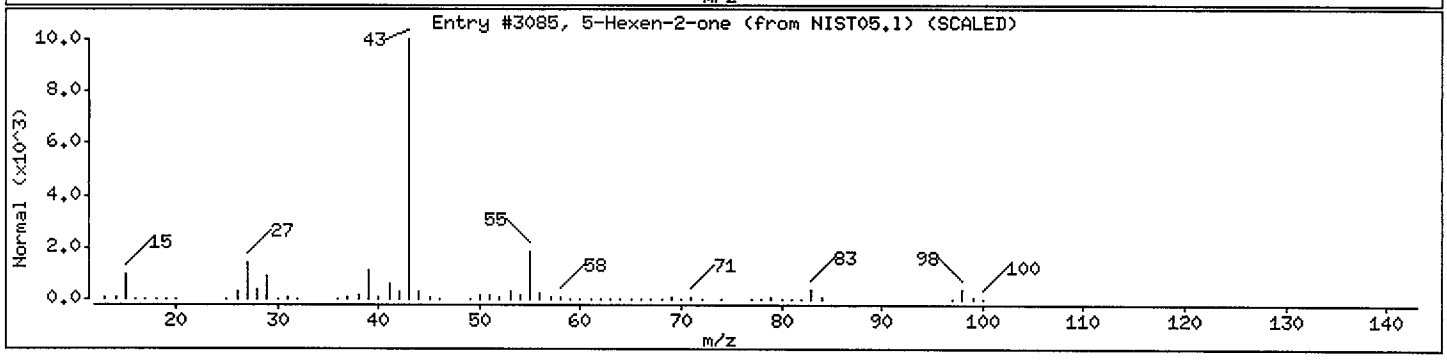
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.l	7952	56	C6H12O2	116
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.l	18291	17	C7H11NO2	141
5-Hexen-2-one	109-49-9	NIST05.l	3085	9	C6H10O	98









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Date : 18-APR-2006 13:17

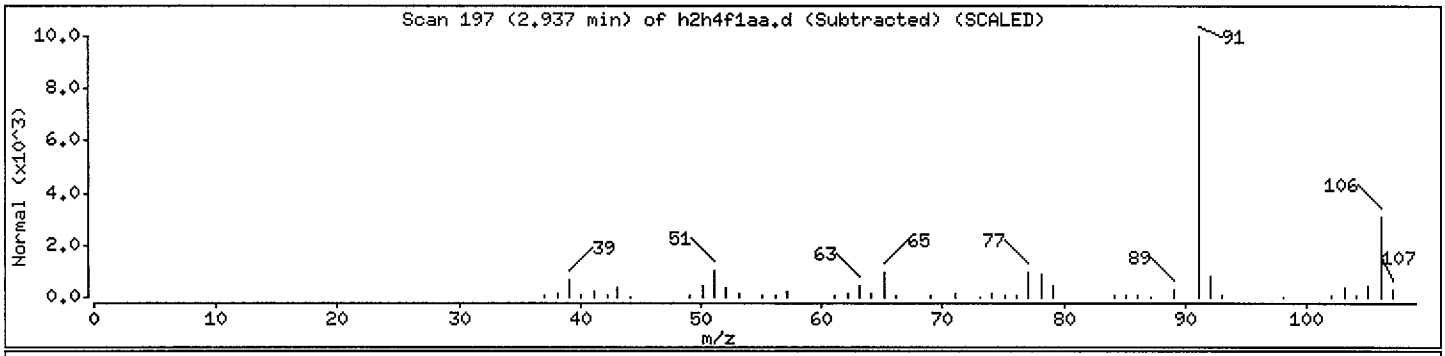
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

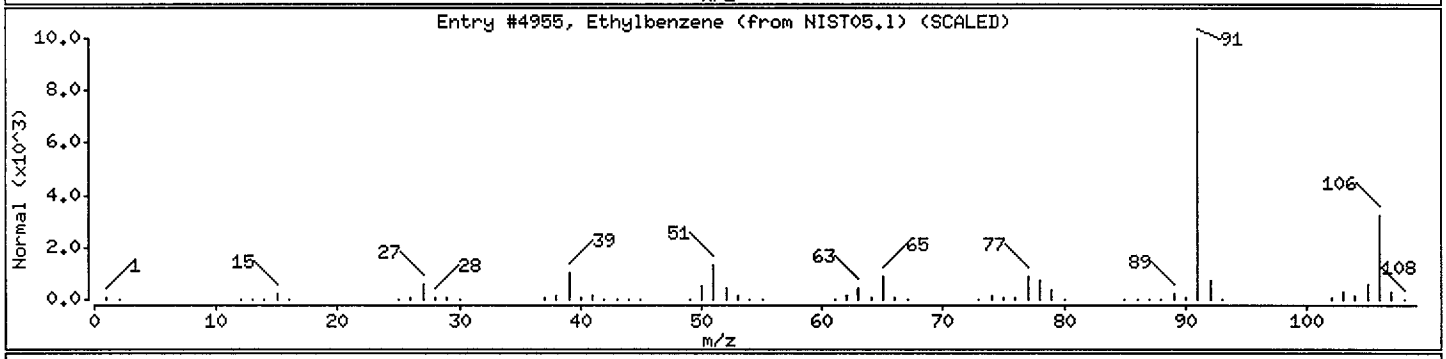
Sample Info: H2H4F1AA,5,0,,,,

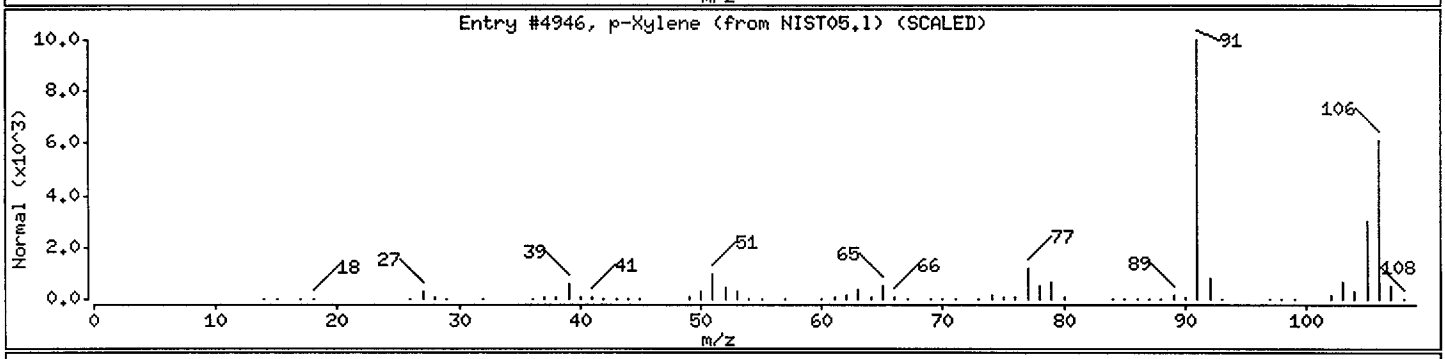
Volume Injected (uL): 1.0 | Operator: 60841

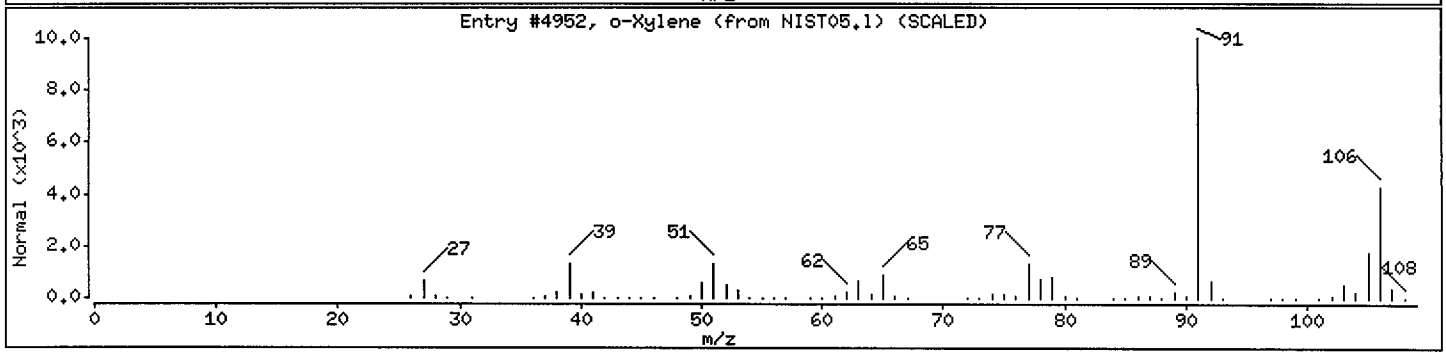
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethylbenzene	100-41-4	NIST05.1	4955	95	C8H10	106
p-Xylene	106-42-3	NIST05.1	4946	72	C8H10	106
o-Xylene	95-47-6	NIST05.1	4952	72	C8H10	106









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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

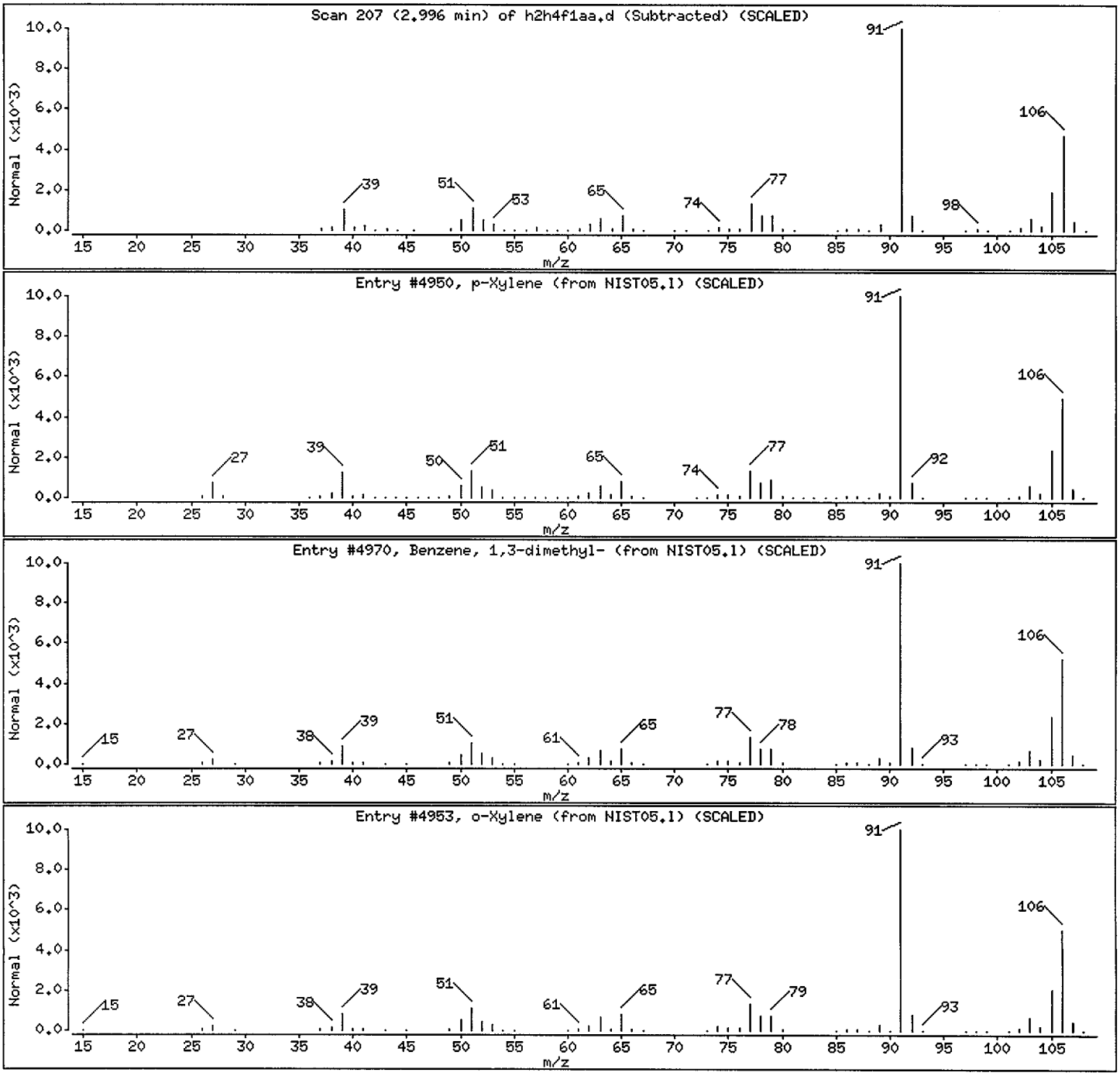
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
p-Xylene	106-42-3	NIST05.1	4950	97	C8H10	106
Benzene, 1,3-dimethyl-	108-38-3	NIST05.1	4970	97	C8H10	106
o-Xylene	95-47-6	NIST05.1	4953	97	C8H10	106



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Date : 18-APR-2006 13:17

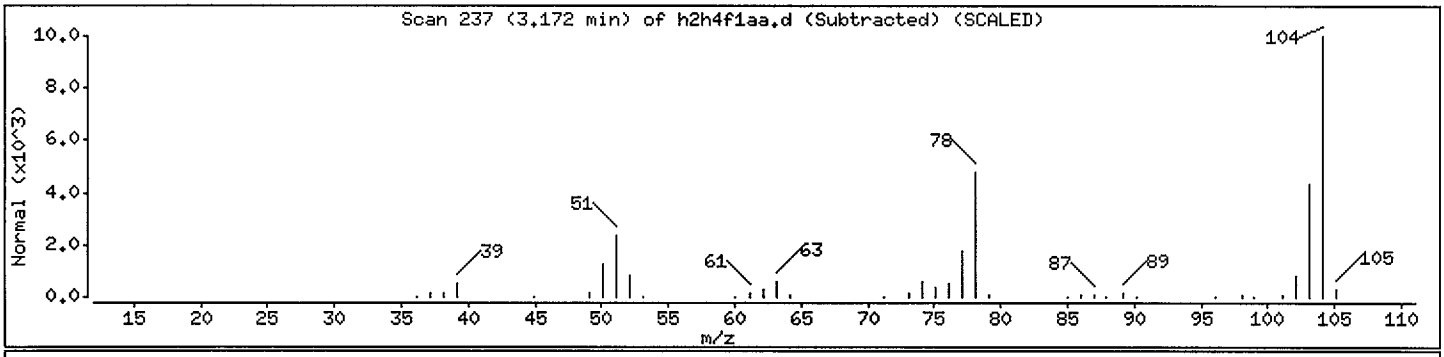
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

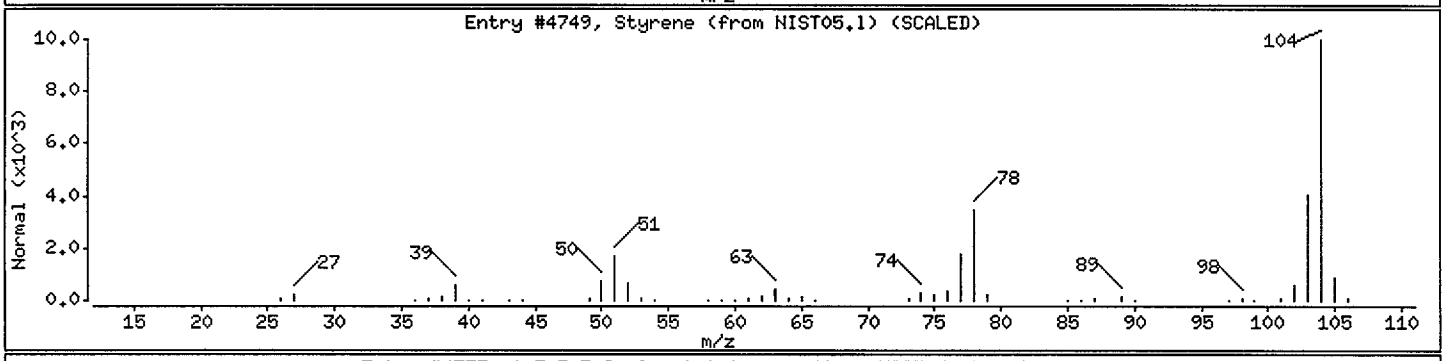
Sample Info: H2H4F1AA,5,0,,,,

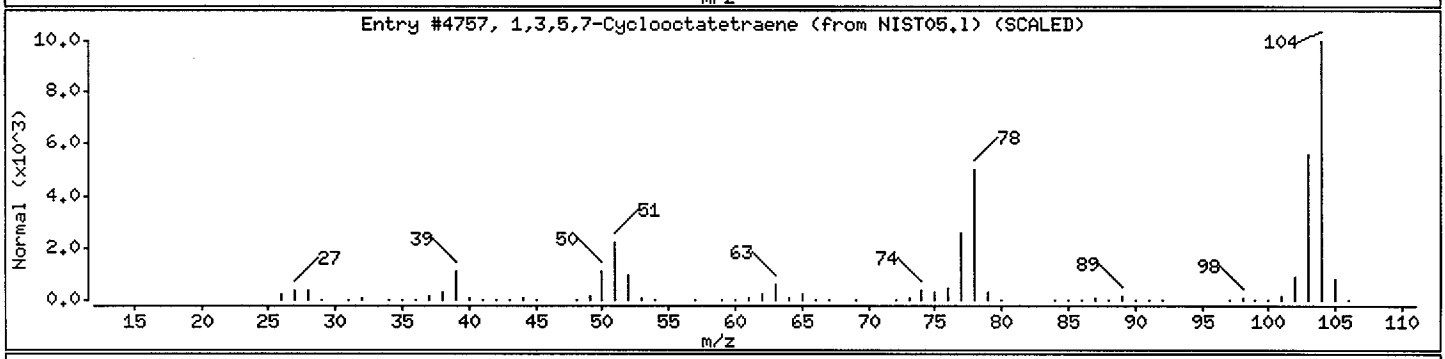
Volume Injected (uL): 1.0 | Operator: 60841

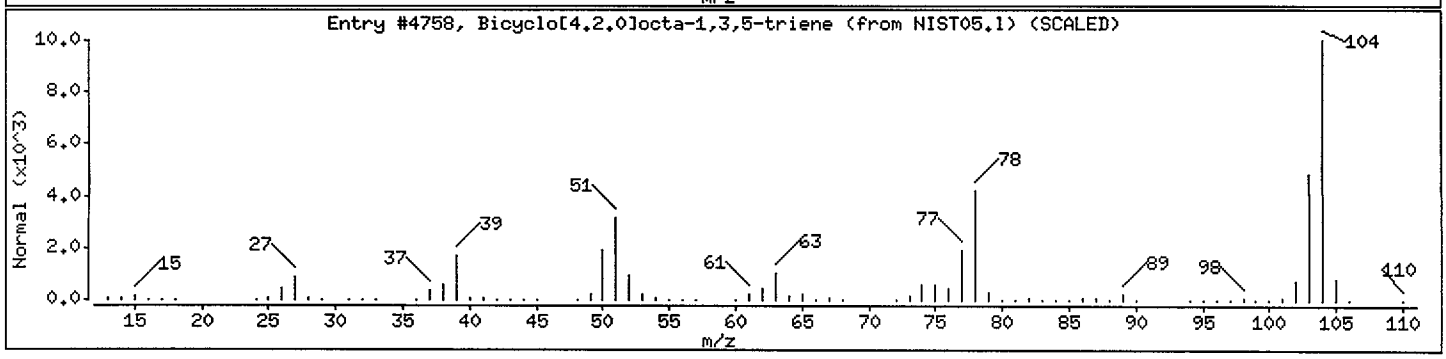
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Styrene	100-42-5	NIST05.l	4749	95	C8H8	104
1,3,5,7-Cyclooctatetraene	629-20-9	NIST05.l	4757	94	C8H8	104
Bicyclo[4.2.0]octa-1,3,5-triene	694-87-1	NIST05.l	4758	90	C8H8	104









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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

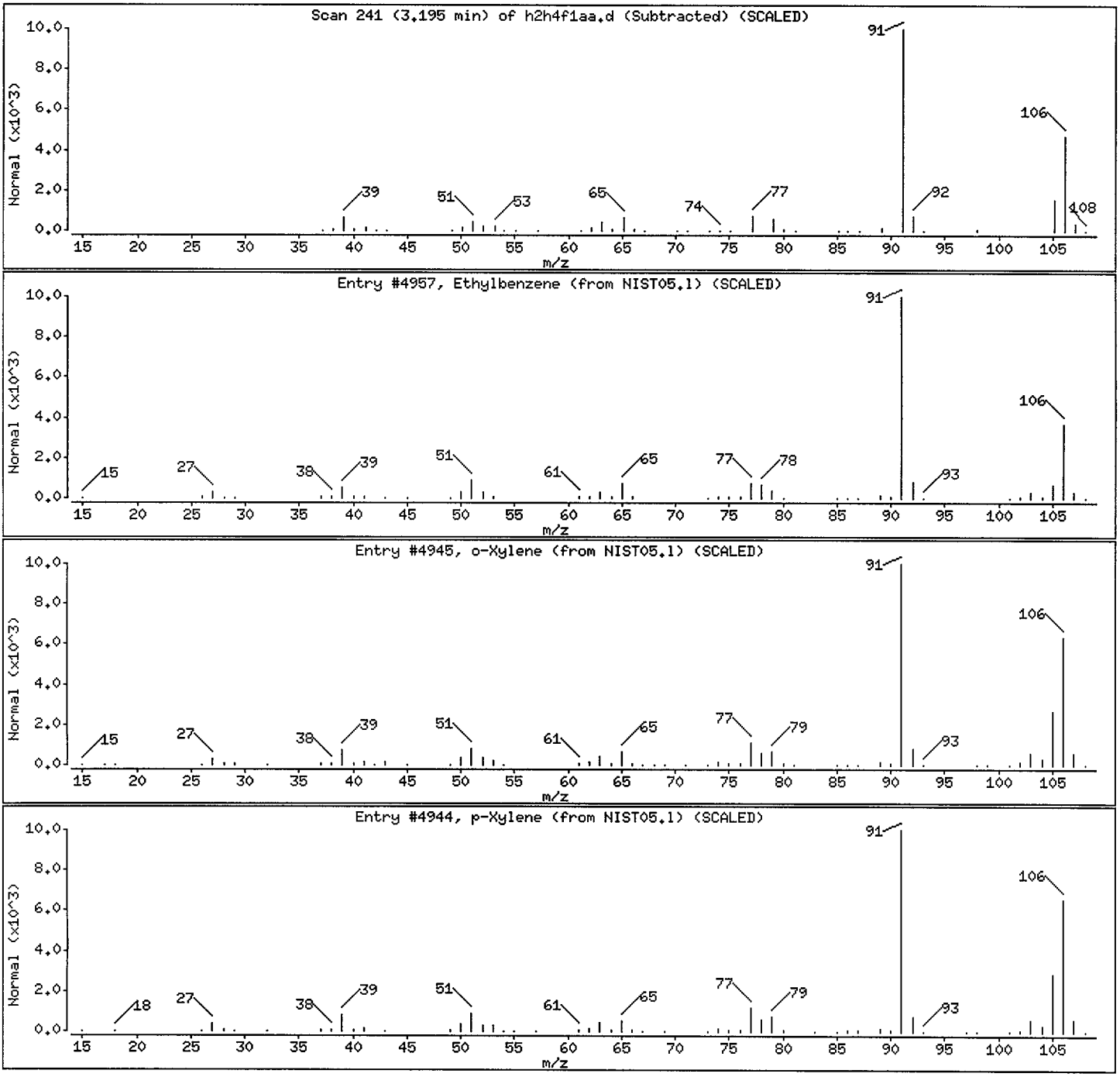
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethylbenzene	100-41-4	NIST05.1	4957	90	C8H10	106
o-Xylene	95-47-6	NIST05.1	4945	87	C8H10	106
p-Xylene	106-42-3	NIST05.1	4944	80	C8H10	106



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

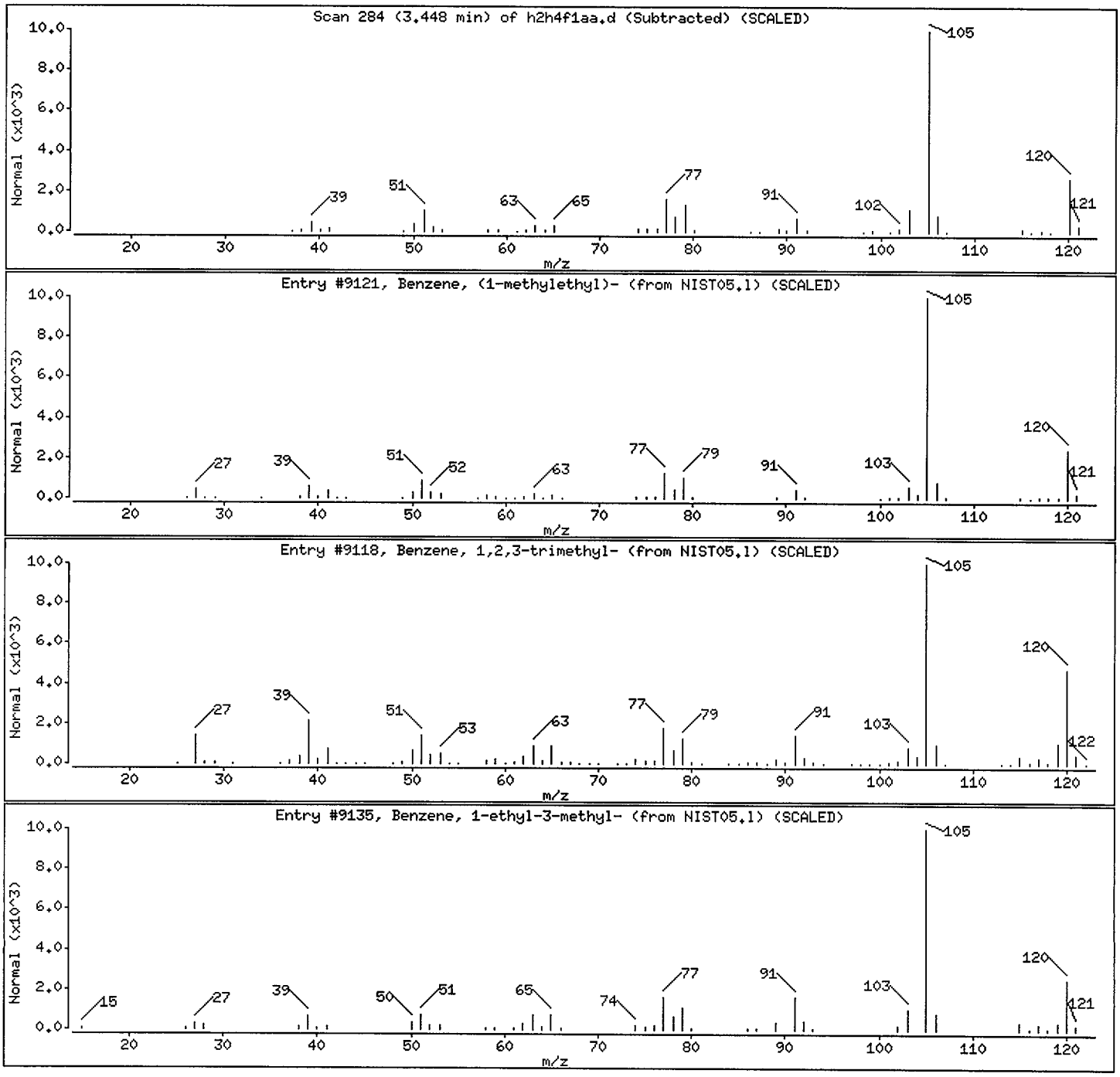
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (1-methylethyl)-	98-82-8	NIST05.l	9121	91	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.l	9118	90	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST05.l	9135	83	C9H12	120



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Date : 18-APR-2006 13:17

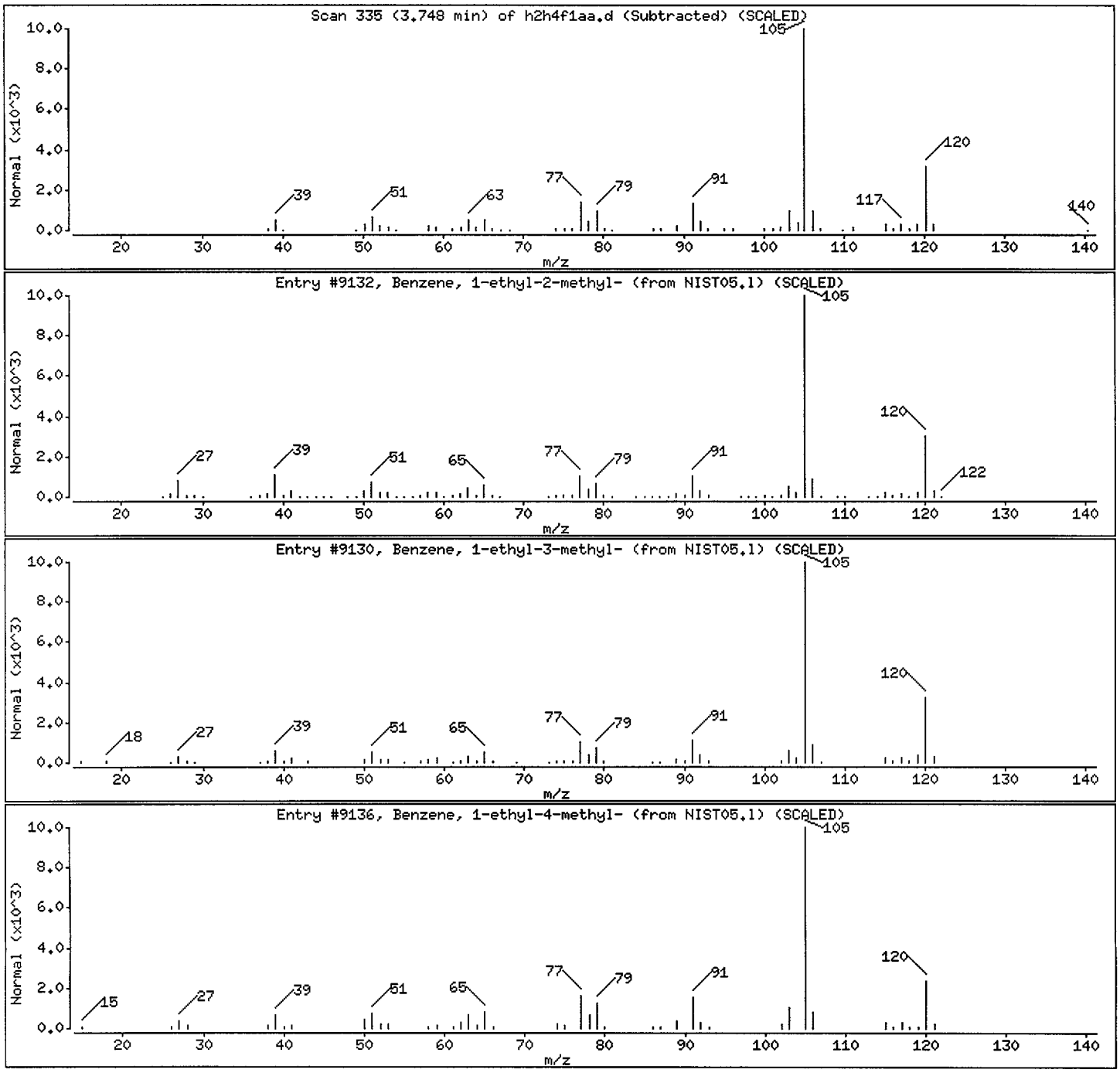
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST05.l	9132	95	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST05.l	9130	95	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST05.l	9136	91	C9H12	120



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

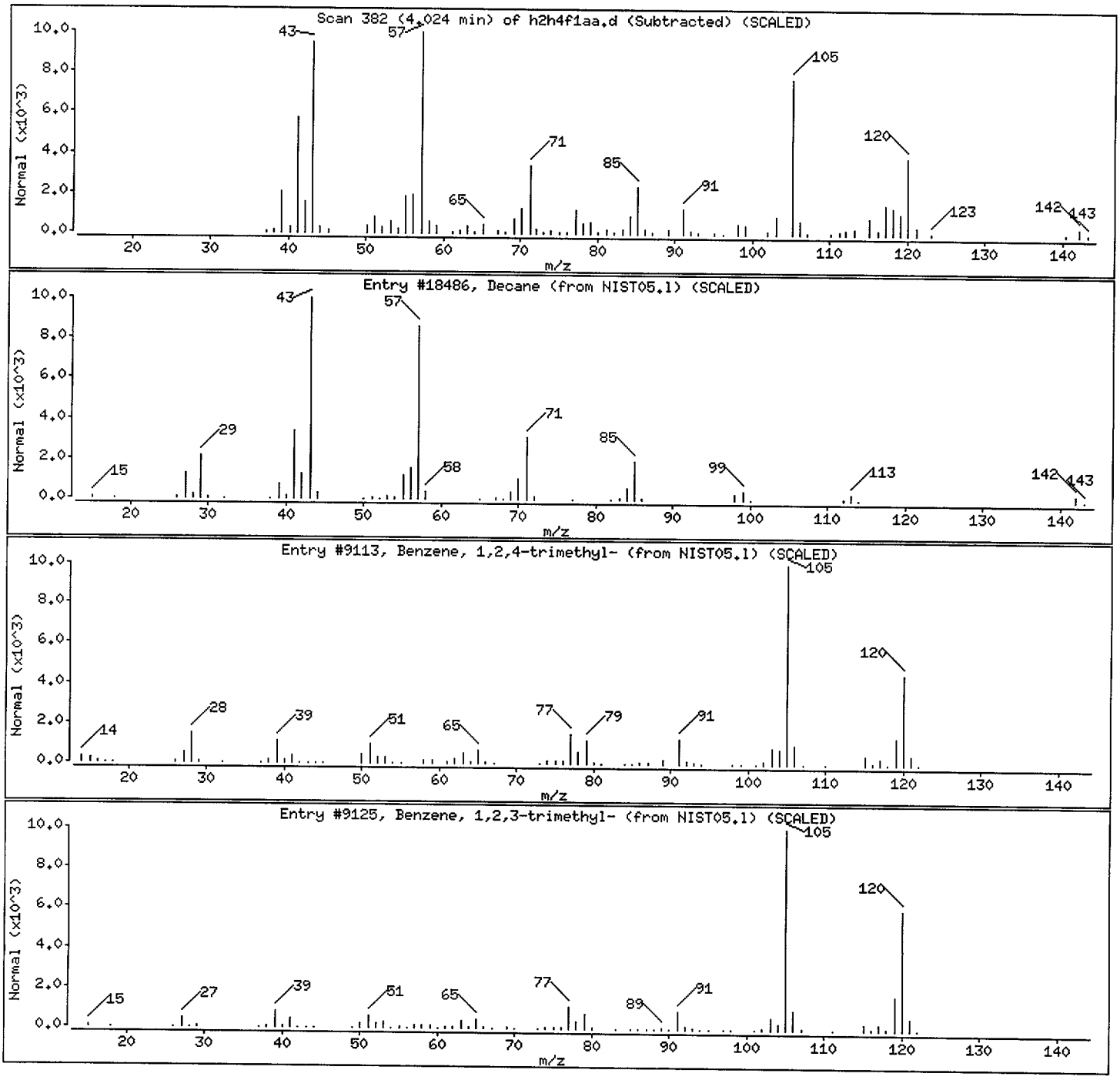
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NIST05.1	18486	89	C10H22	142
Benzene, 1,2,4-trimethyl-	95-63-6	NIST05.1	9113	42	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIST05.1	9125	42	C9H12	120



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

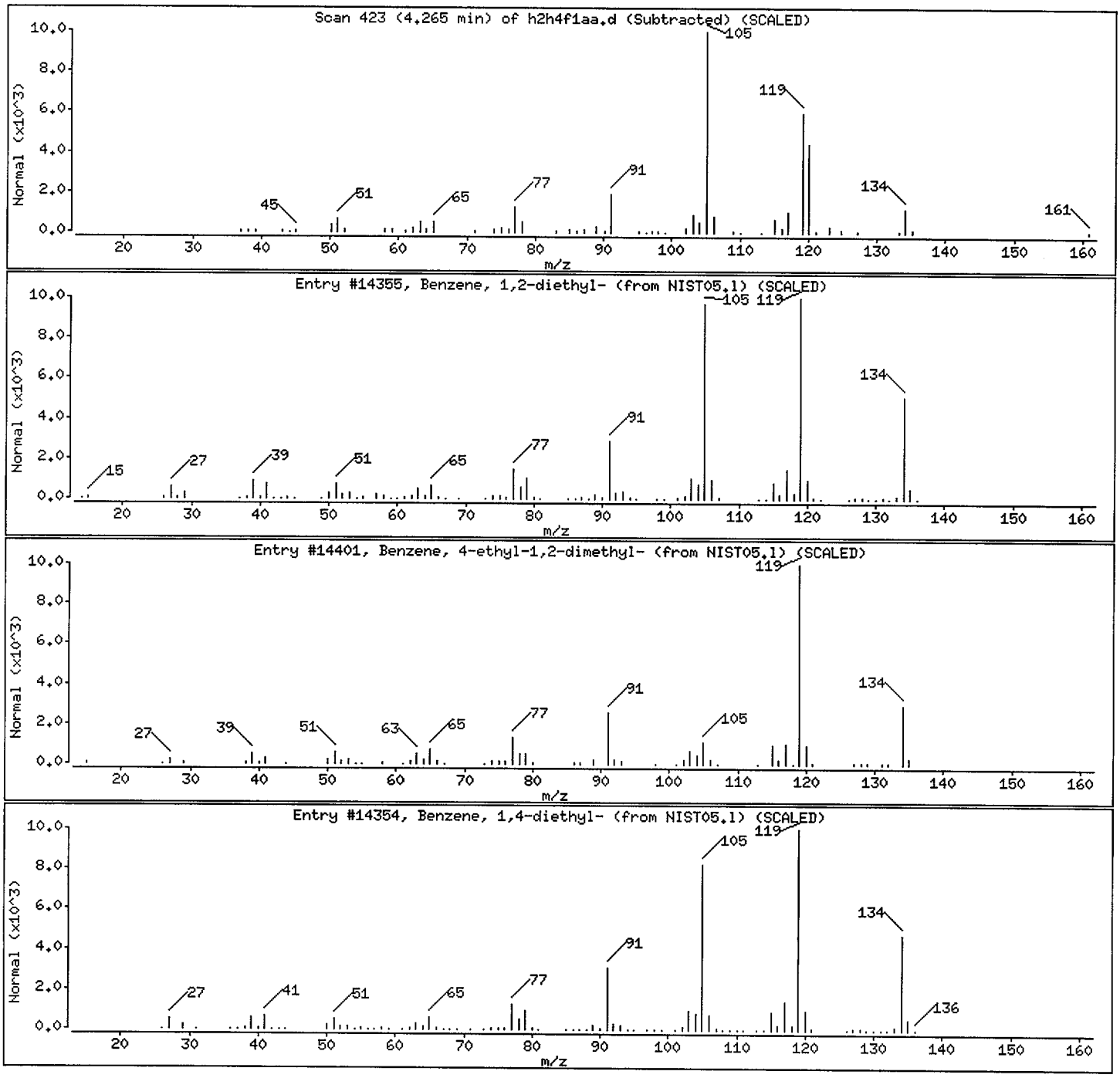
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2-diethyl-	135-01-3	NIST05.l	14355	76	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST05.l	14401	64	C10H14	134
Benzene, 1,4-diethyl-	105-05-5	NIST05.l	14354	58	C10H14	134



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Date : 18-APR-2006 13:17

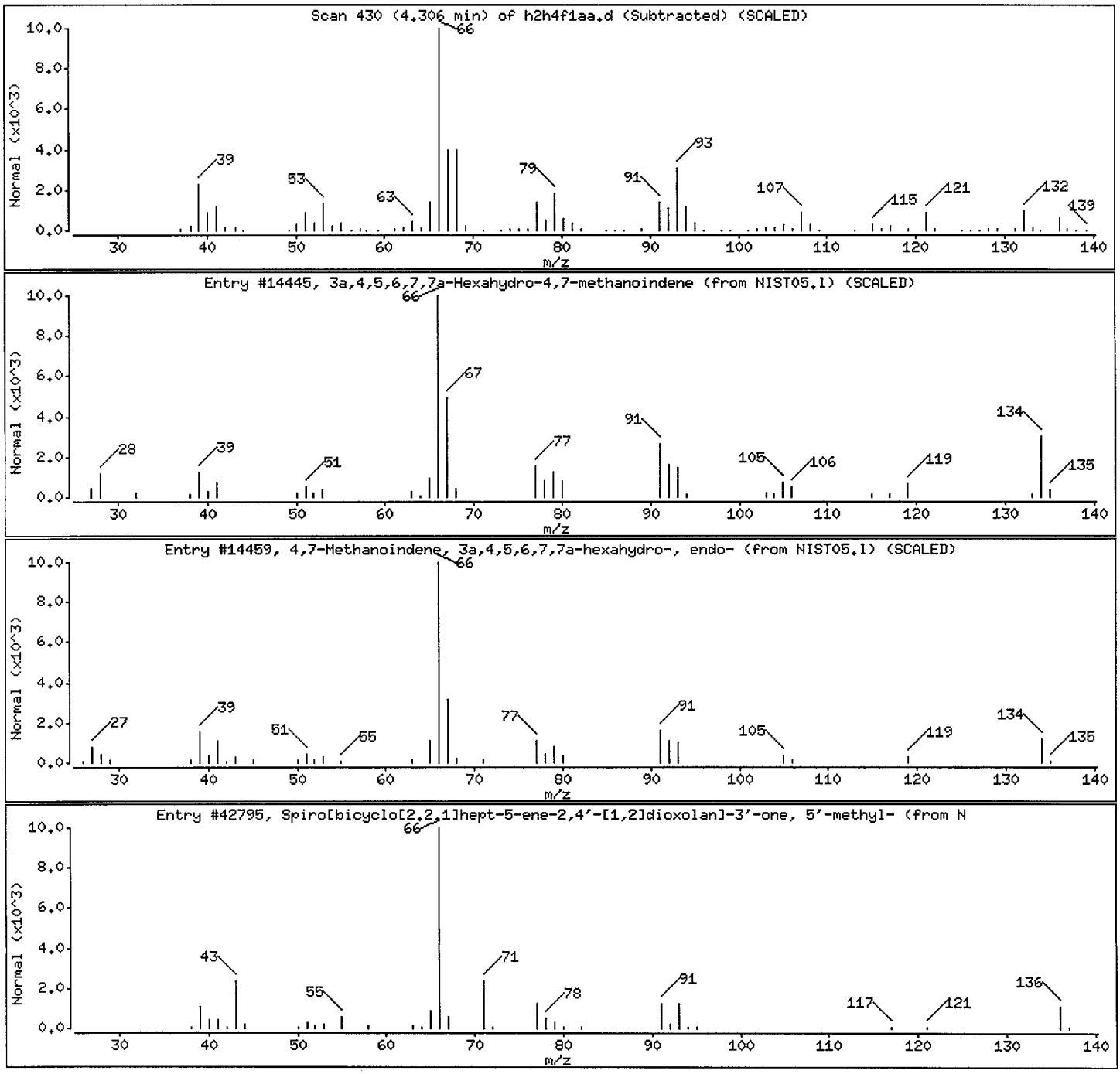
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden	4488-57-7	NIST05.1	14445	64	C10H14	134
4,7-Methanoindene, 3a,4,5,6,7,7a-hexahyd	2825-86-7	NIST05.1	14459	59	C10H14	134
Spiro[bicyclo[2.2.1]hept-5-ene-2,4'-[1,2	1000142-21-3	NIST05.1	42795	59	C10H12O3	180



Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

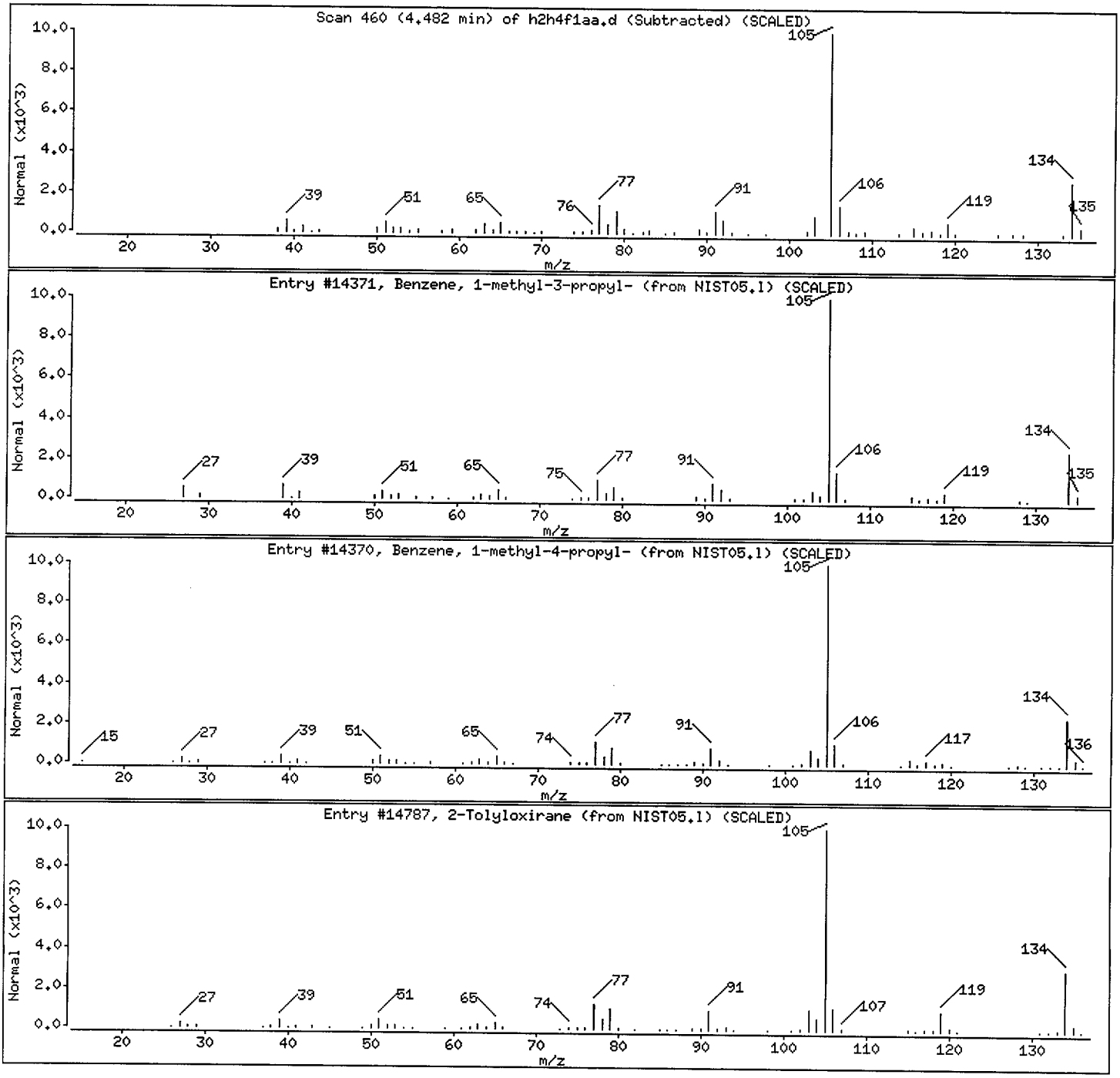
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-propyl-	1074-43-7	NIST05.l	14371	95	C10H14	134
Benzene, 1-methyl-4-propyl-	1074-55-1	NIST05.l	14370	91	C10H14	134
2-Tolyloxirane	2783-26-8	NIST05.l	14787	91	C9H10O	134



Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

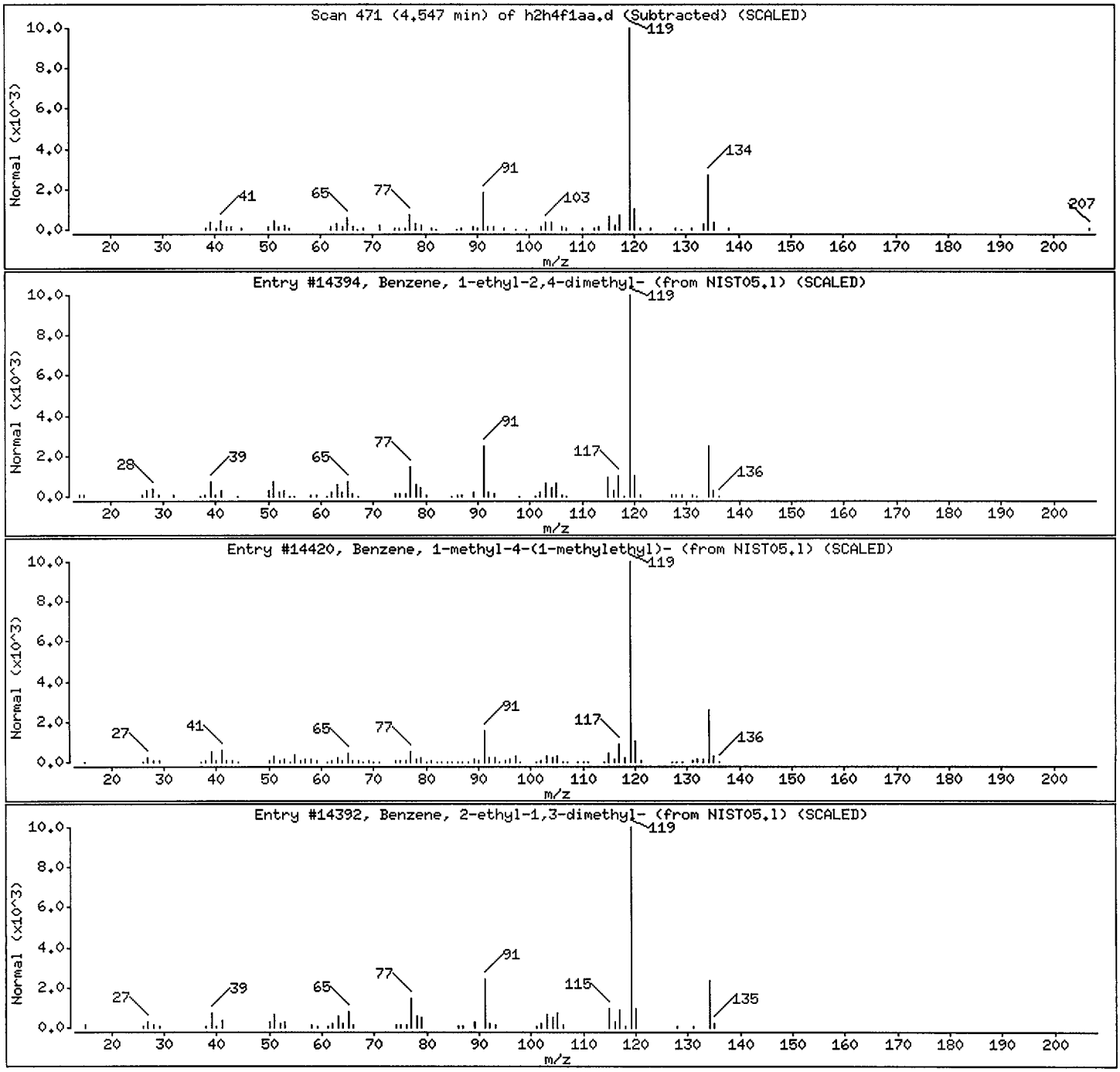
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST05.l	14394	94	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NIST05.l	14420	91	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST05.l	14392	91	C10H14	134



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

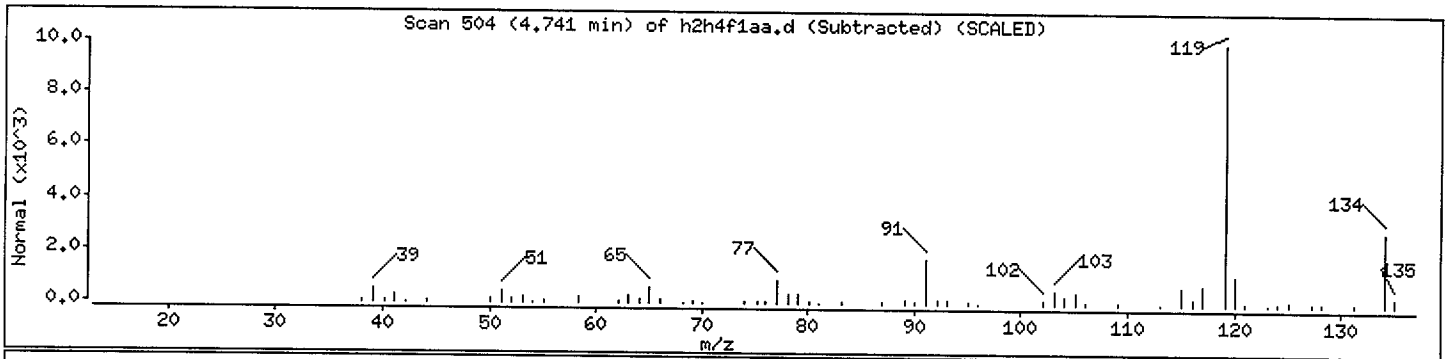
Volume Injected (uL): 1.0

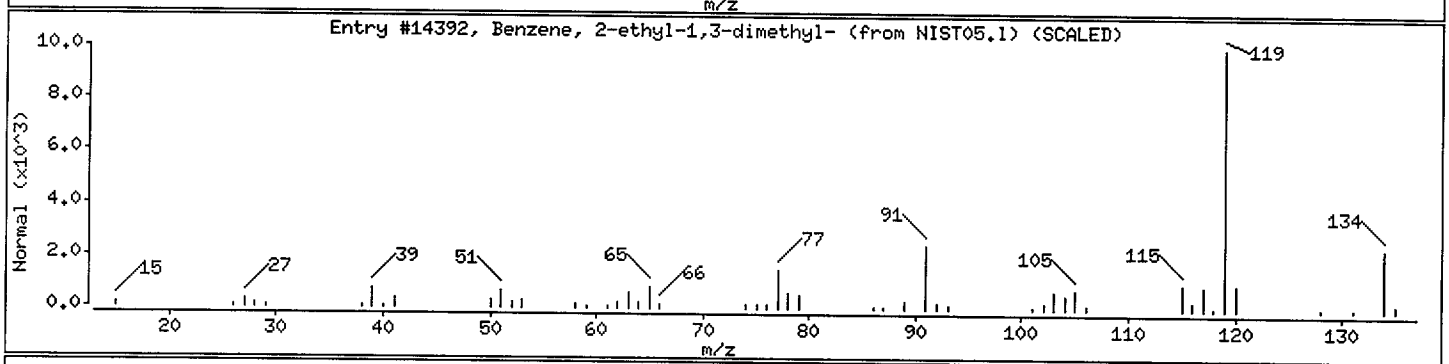
Operator: 60841

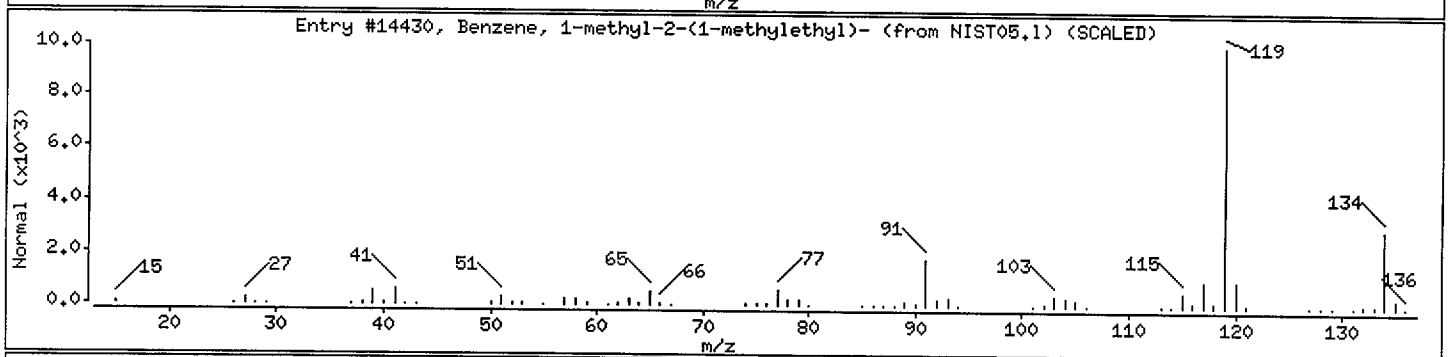
Column phase: ZB-5

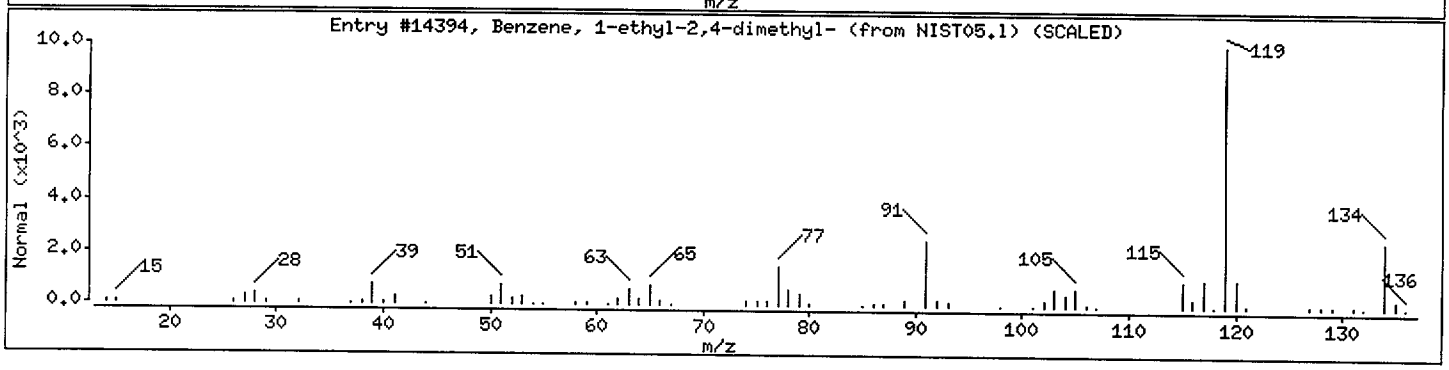
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST05.1	14392	95	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIST05.1	14430	94	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST05.1	14394	94	C10H14	134









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Date : 18-APR-2006 13:17

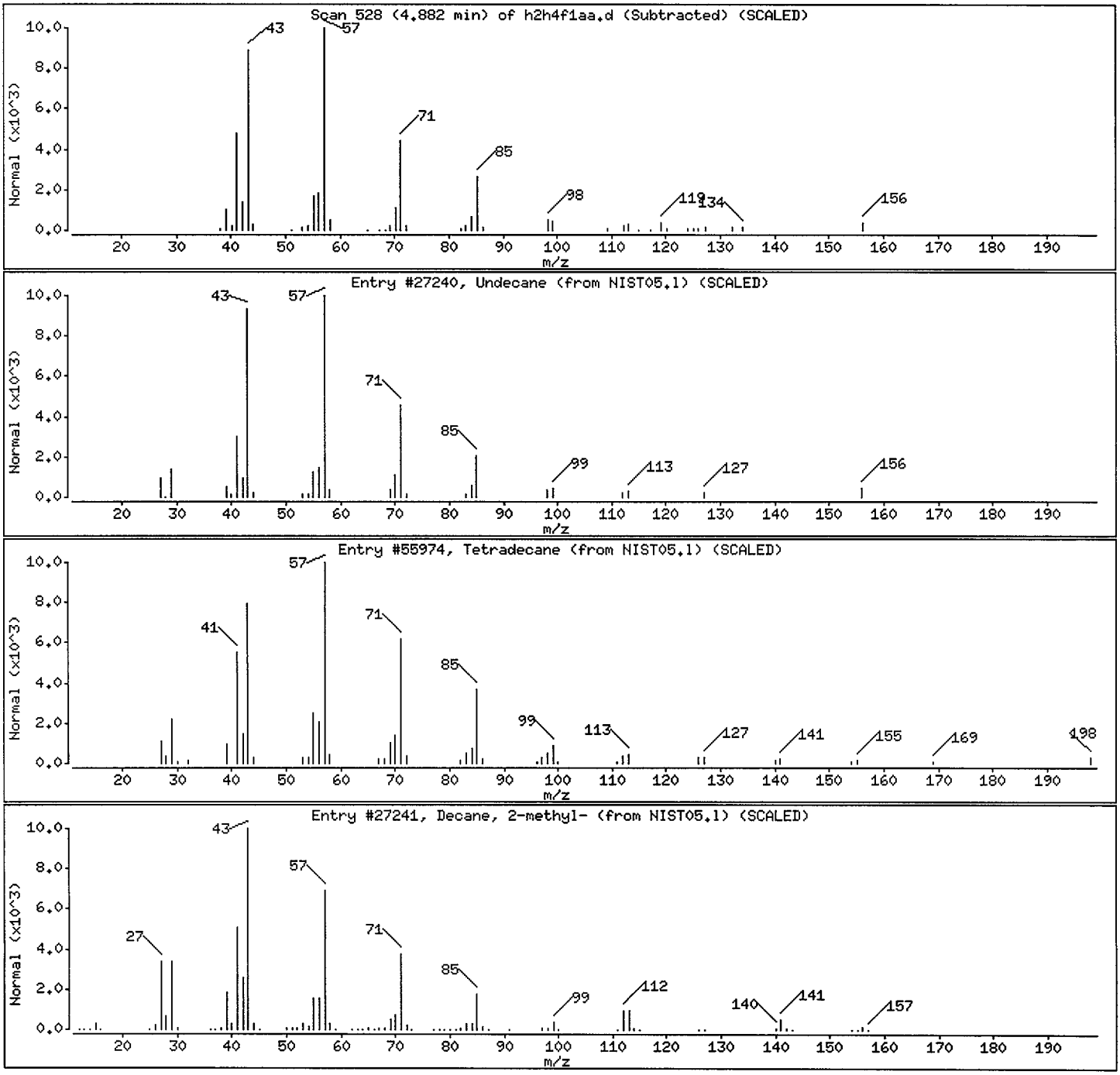
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NIST05.1	27240	91	C11H24	156
Tetradecane	629-59-4	NIST05.1	55974	86	C14H30	198
Decane, 2-methyl-	6975-98-0	NIST05.1	27241	72	C11H24	156



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Date : 18-APR-2006 13:17

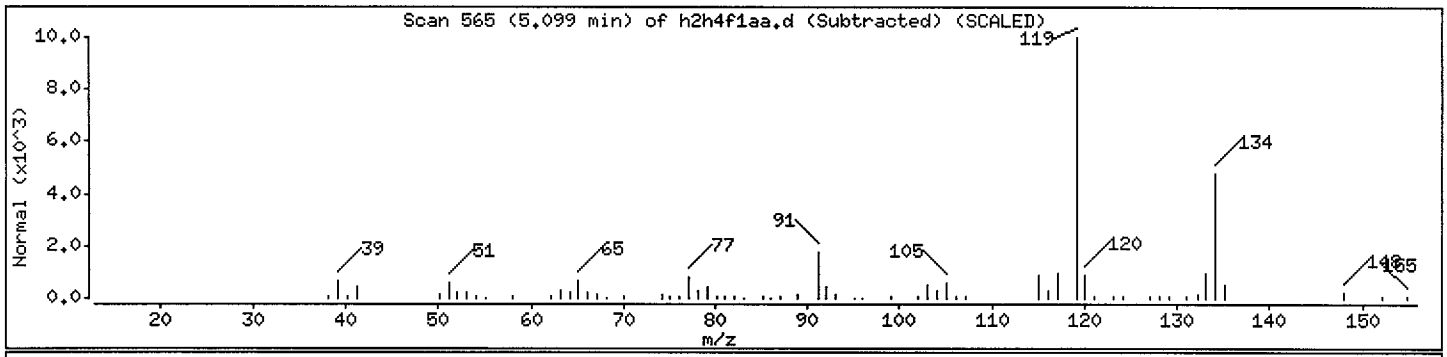
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

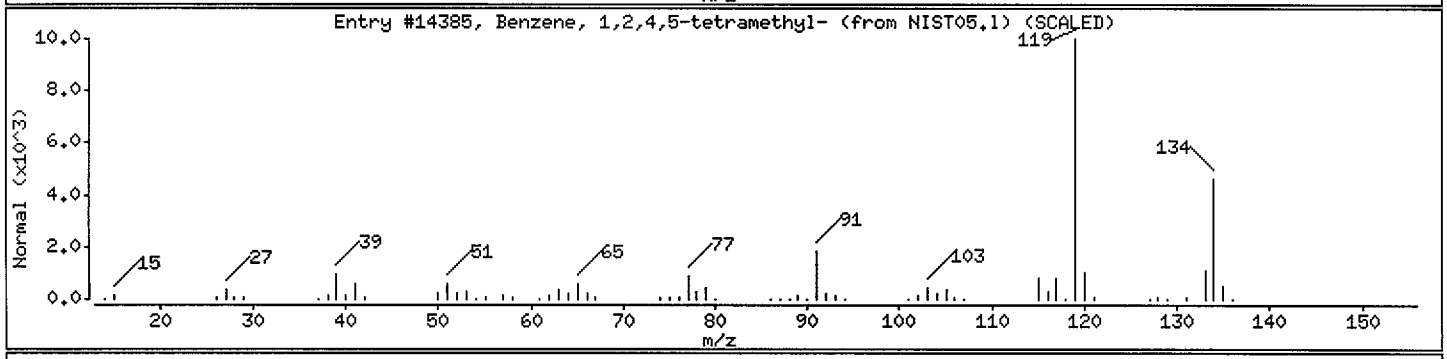
Sample Info: H2H4F1AA,5,0,,,,

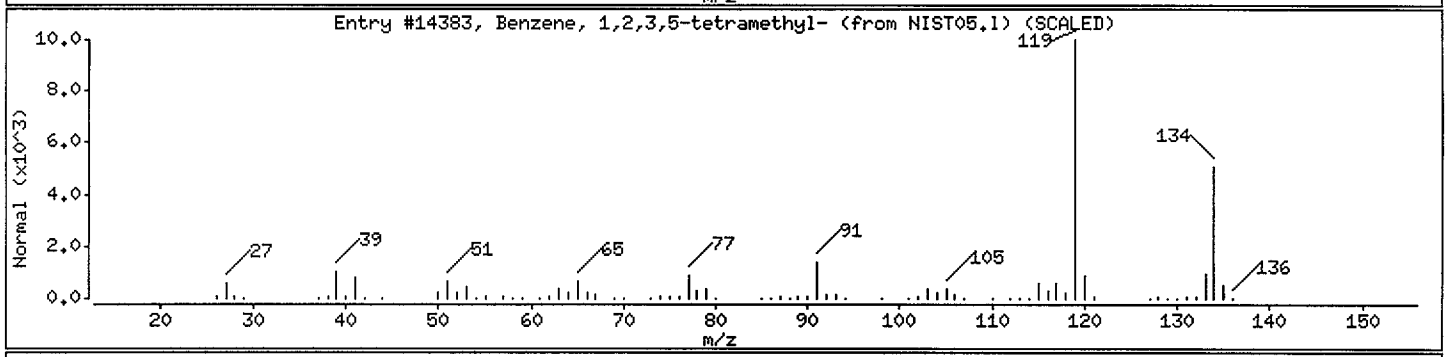
Volume Injected (uL): 1.0 | Operator: 60841

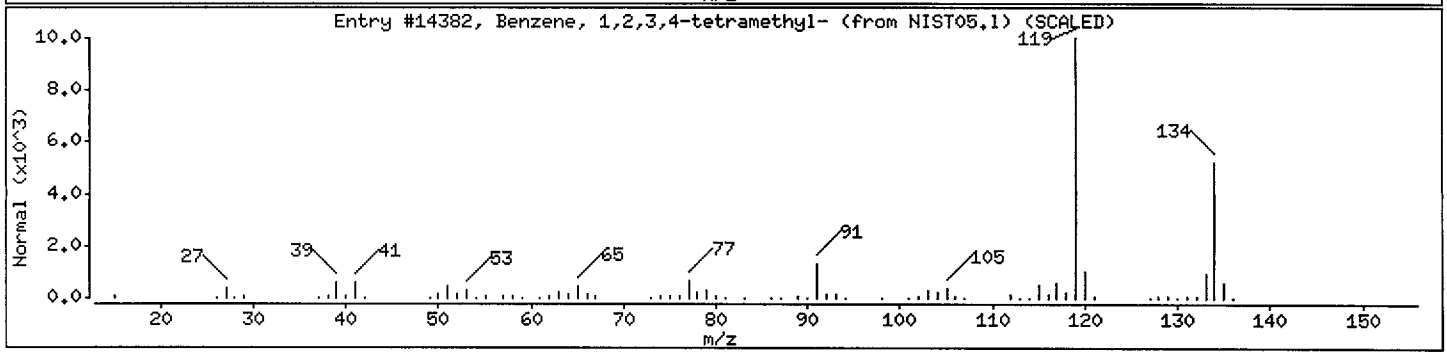
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.l	14385	97	C10H14	134
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST05.l	14383	94	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST05.l	14382	91	C10H14	134









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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

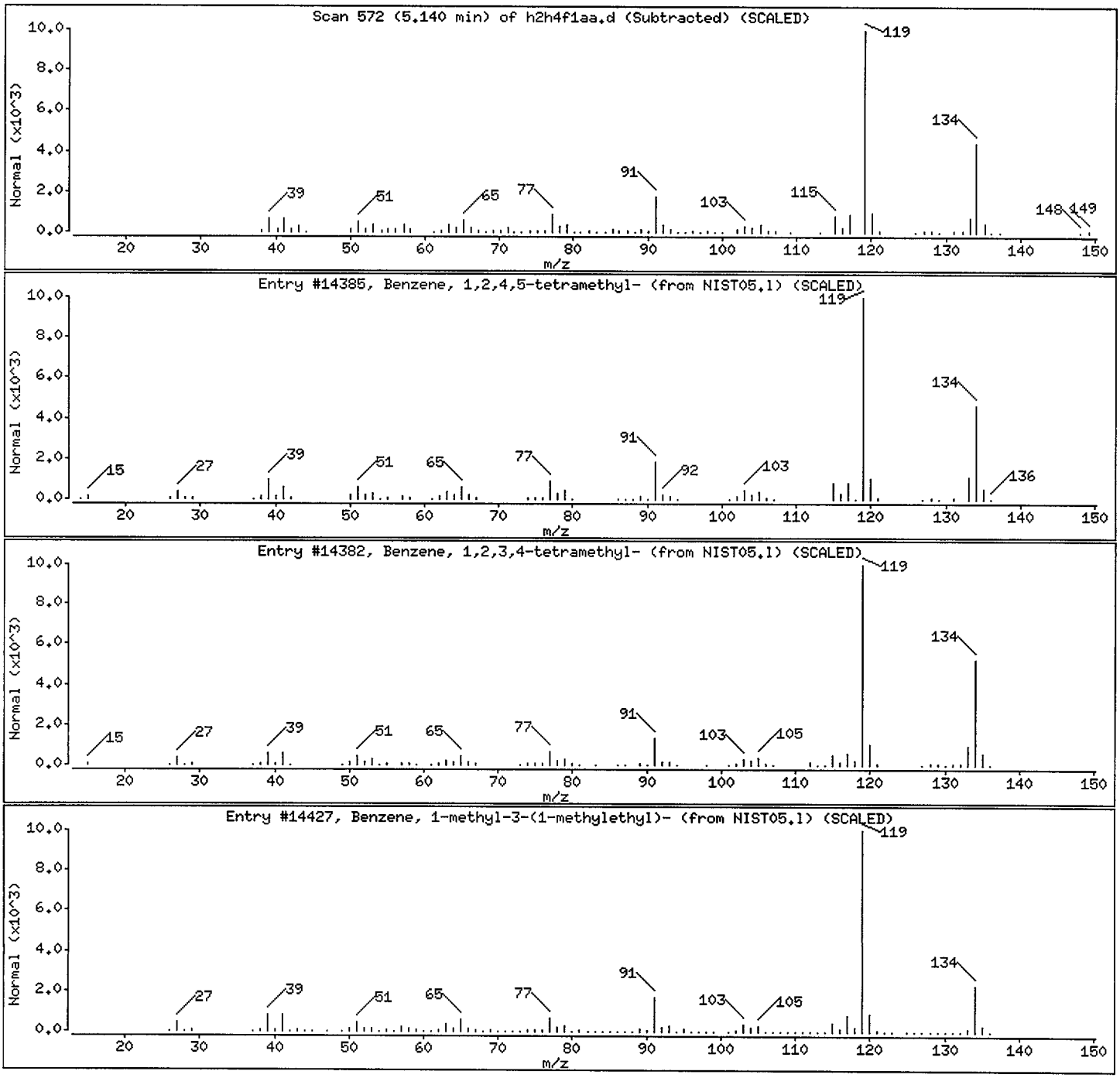
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST05.1	14385	97	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST05.1	14382	95	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.1	14427	91	C10H14	134



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Date : 18-APR-2006 13:17

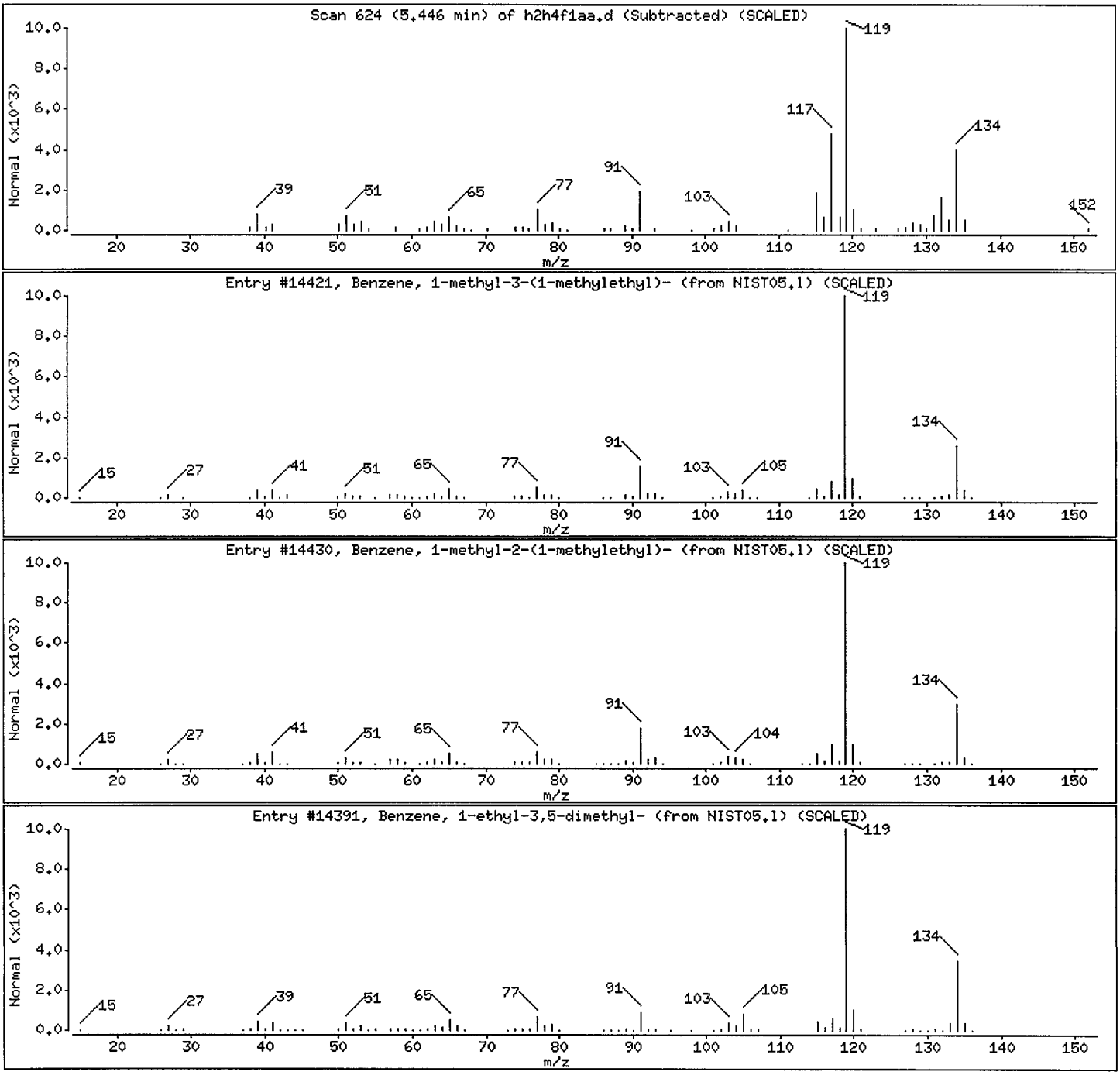
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST05.l	14421	70	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIST05.l	14430	62	C10H14	134
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NIST05.l	14391	62	C10H14	134



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Date : 18-APR-2006 13:17

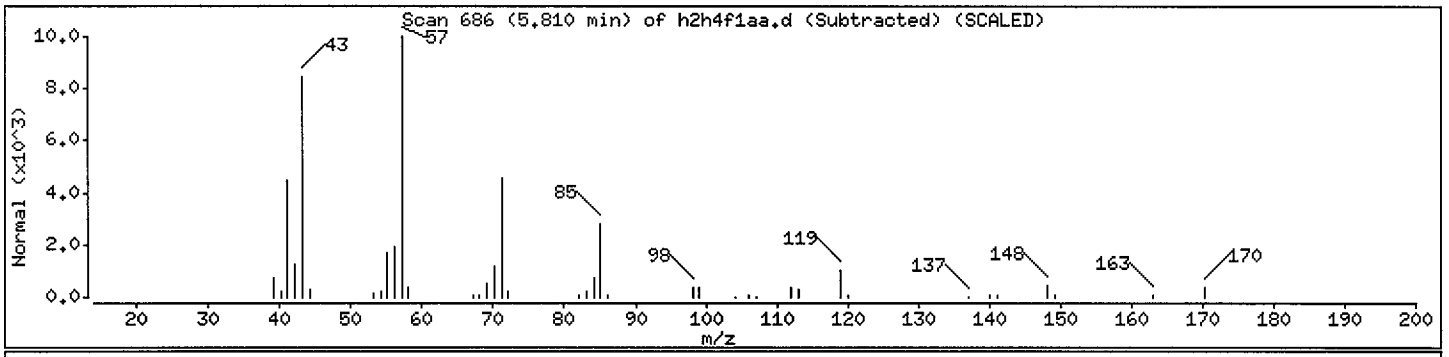
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

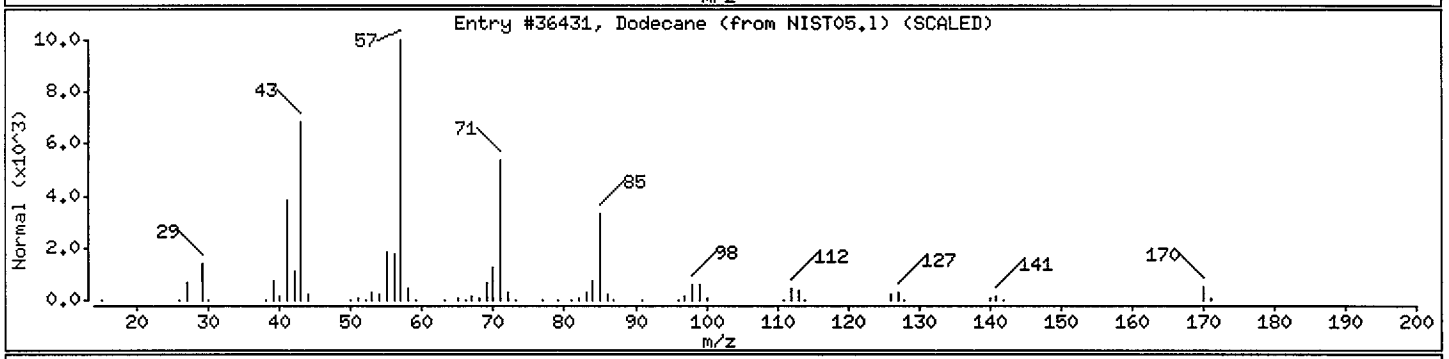
Sample Info: H2H4F1AA,5,0,,,,

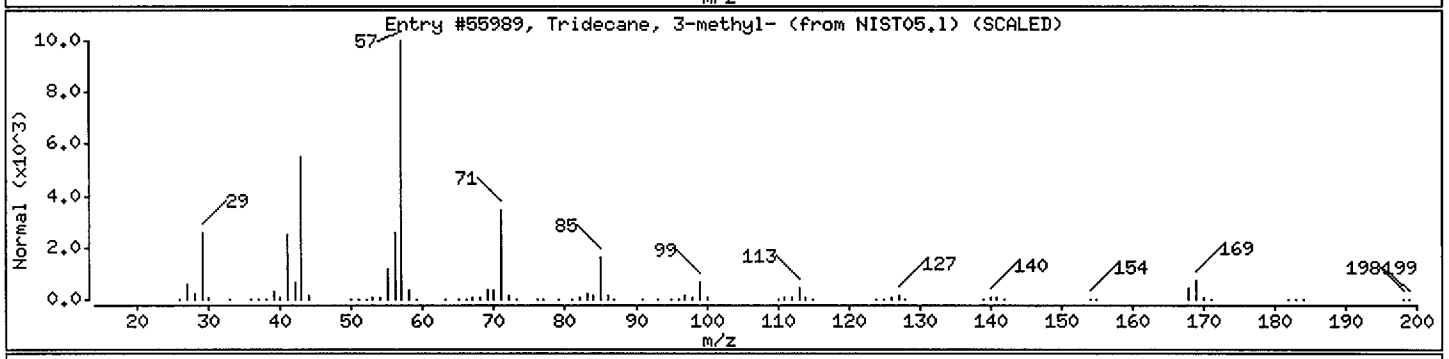
Volume Injected (uL): 1.0 | Operator: 60841

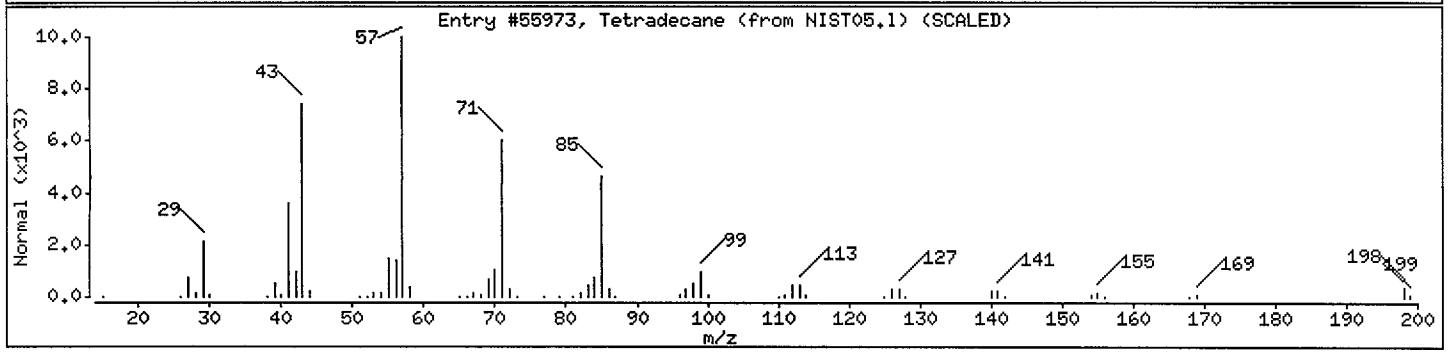
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane	112-40-3	NIST05.l	36431	87	C12H26	170
Tridecane, 3-methyl-	6418-41-3	NIST05.l	55989	59	C14H30	198
Tetradecane	629-59-4	NIST05.l	55973	59	C14H30	198









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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

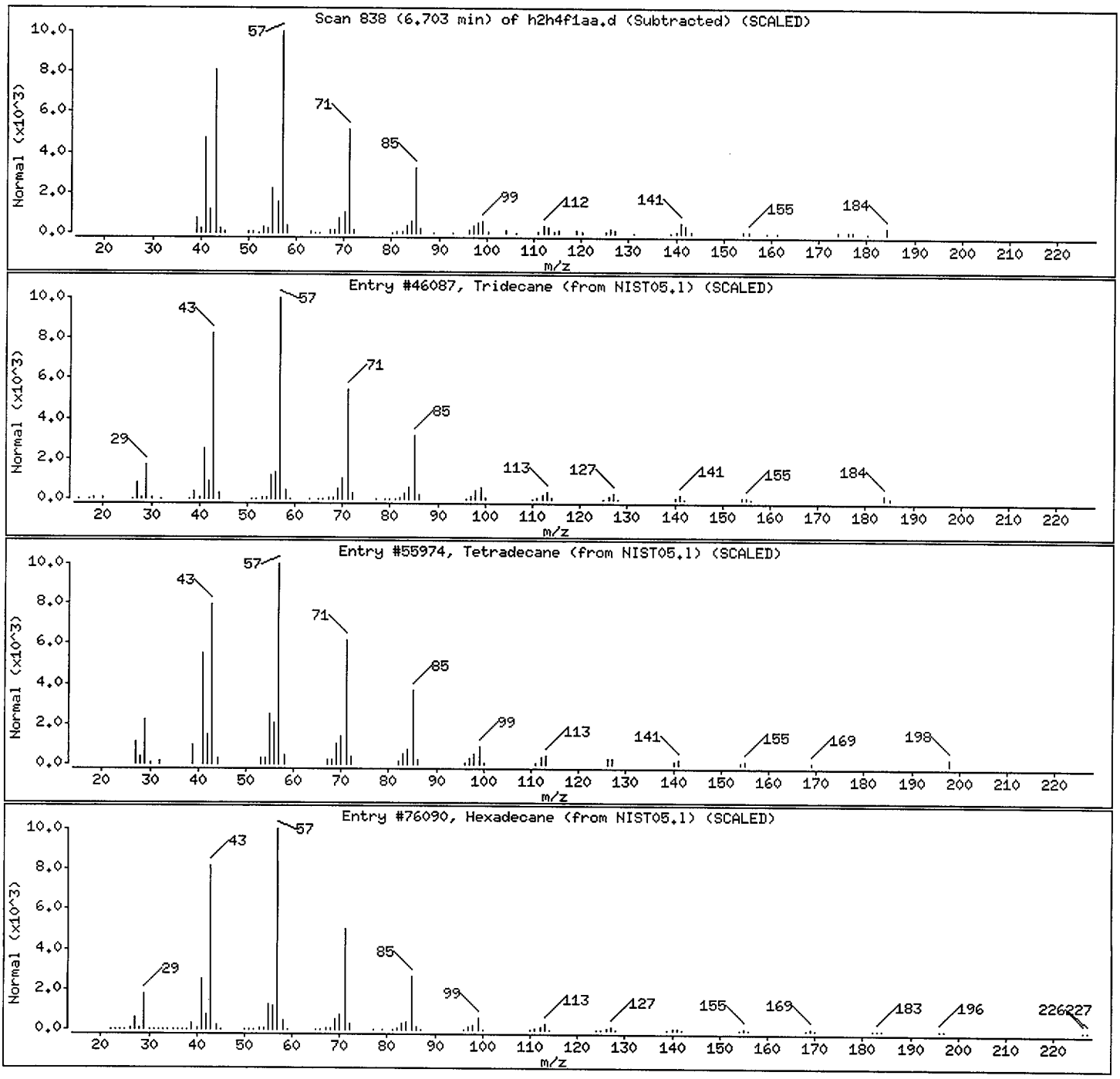
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane	629-50-5	NIST05.1	46087	93	C13H28	184
Tetradecane	629-59-4	NIST05.1	55974	80	C14H30	198
Hexadecane	544-76-3	NIST05.1	76090	72	C16H34	226



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

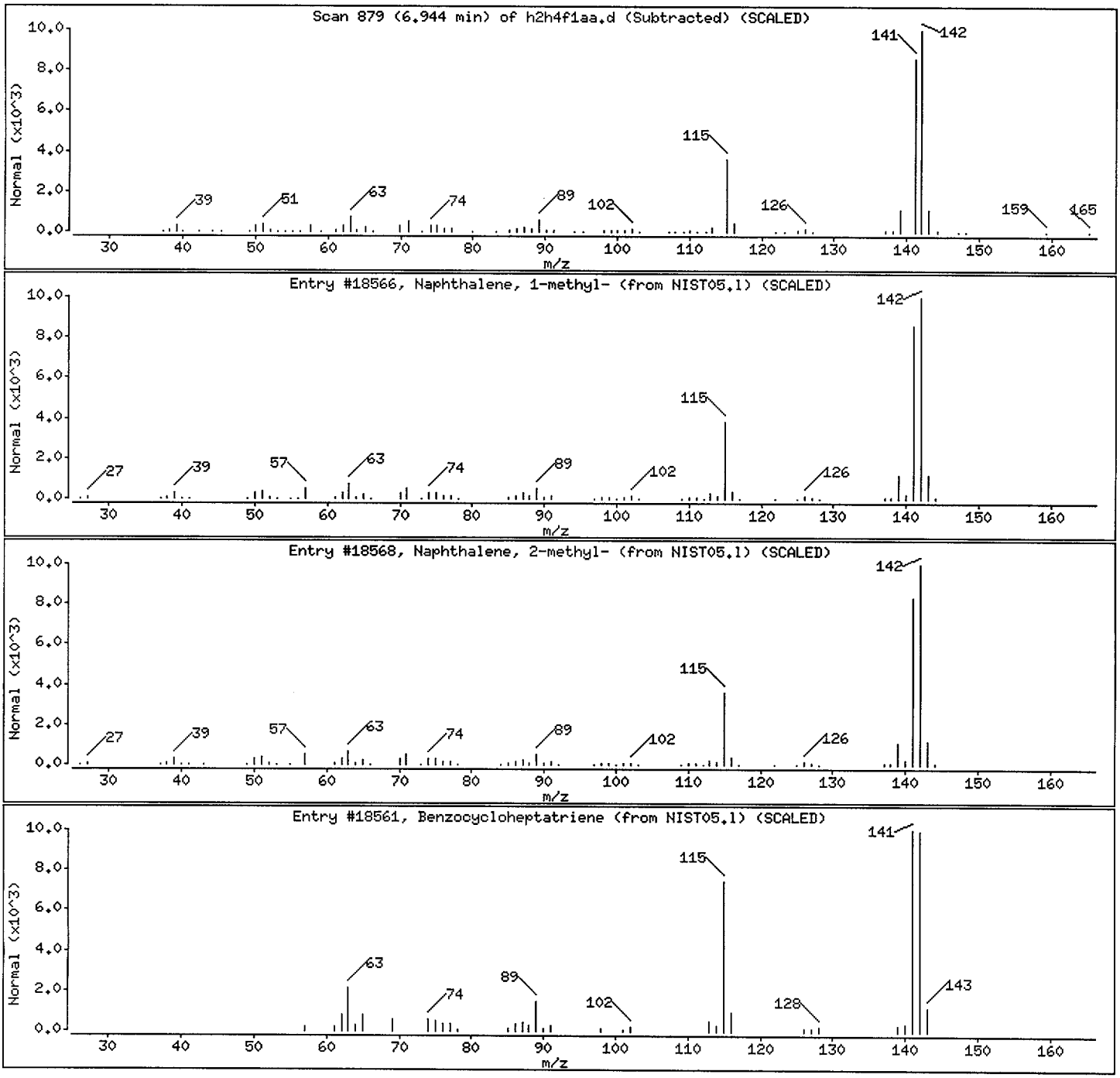
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1-methyl-	90-12-0	NIST05.l	18566	95	C11H10	142
Naphthalene, 2-methyl-	91-57-6	NIST05.l	18568	95	C11H10	142
Benzocycloheptatriene	264-09-5	NIST05.l	18561	91	C11H10	142



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

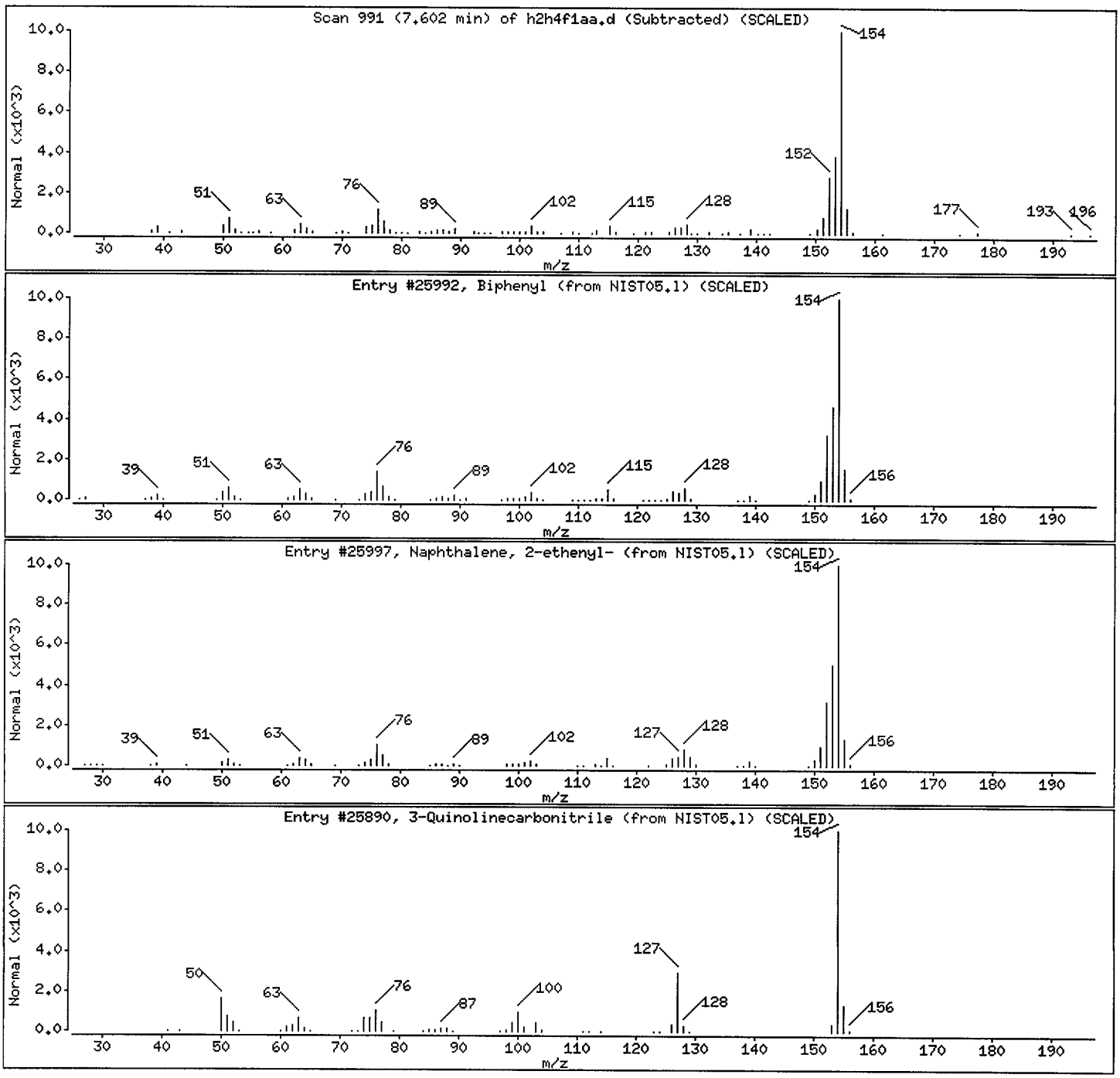
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Biphenyl	92-52-4	NIST05.1	25992	93	C12H10	154
Naphthalene, 2-ethenyl-	827-54-3	NIST05.1	25997	81	C12H10	154
3-Quinolinecarbonitrile	34846-64-5	NIST05.1	25890	47	C10H6N2	154



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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

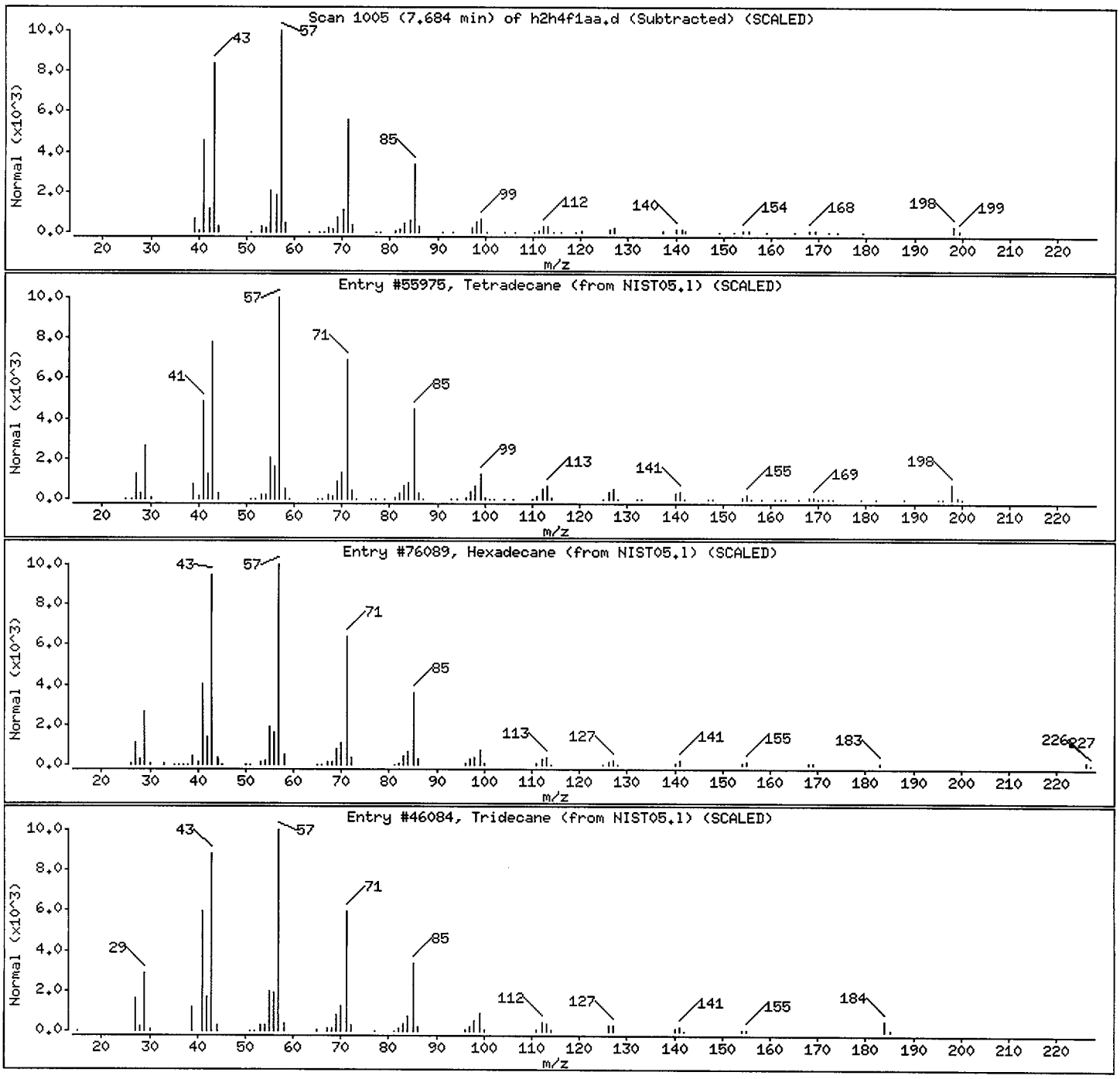
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST05.1	55975	97	C14H30	198
Hexadecane	544-76-3	NIST05.1	76089	90	C16H34	226
Tridecane	629-50-5	NIST05.1	46084	87	C13H28	184



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Date : 18-APR-2006 13:17

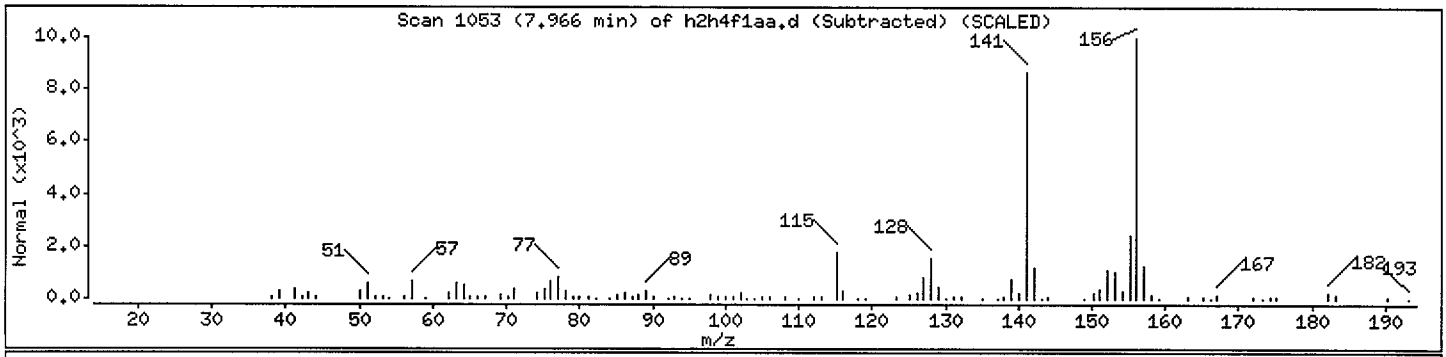
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

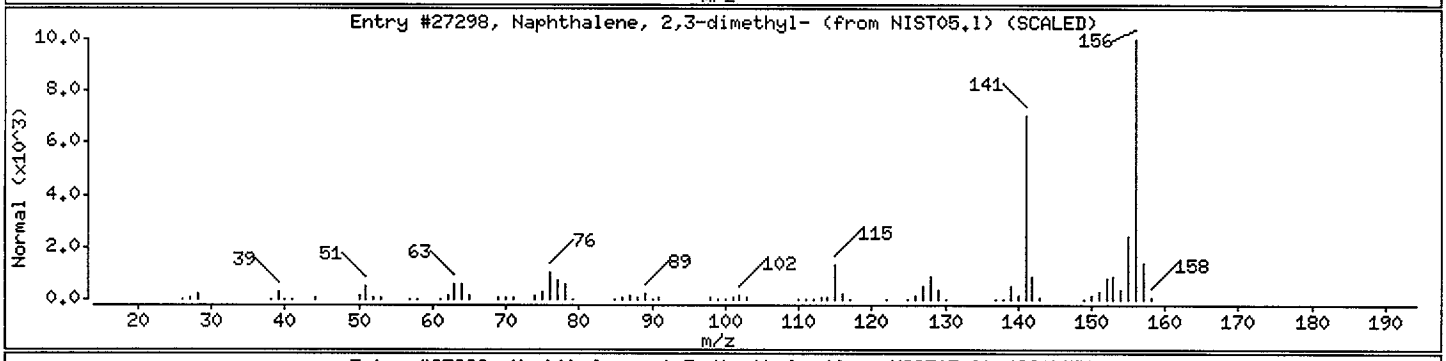
Sample Info: H2H4F1AA,5,0,,,,

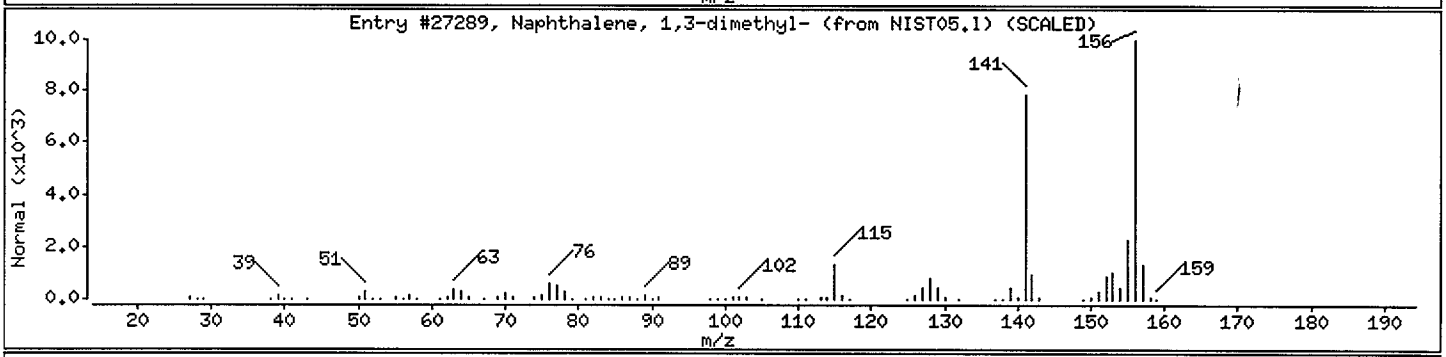
Volume Injected (uL): 1.0 | Operator: 60841

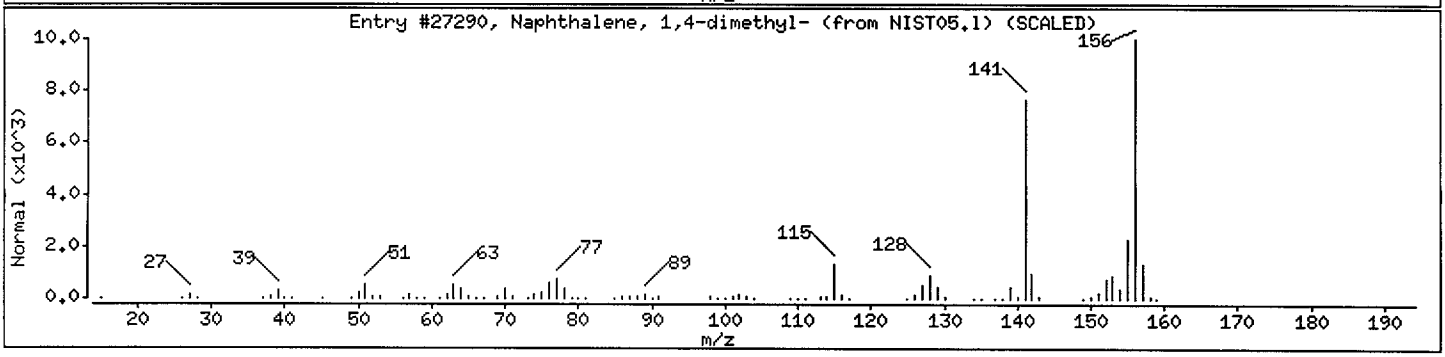
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,3-dimethyl-	581-40-8	NIST05.1	27298	97	C12H12	156
Naphthalene, 1,3-dimethyl-	575-41-7	NIST05.1	27289	95	C12H12	156
Naphthalene, 1,4-dimethyl-	571-58-4	NIST05.1	27290	94	C12H12	156









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Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

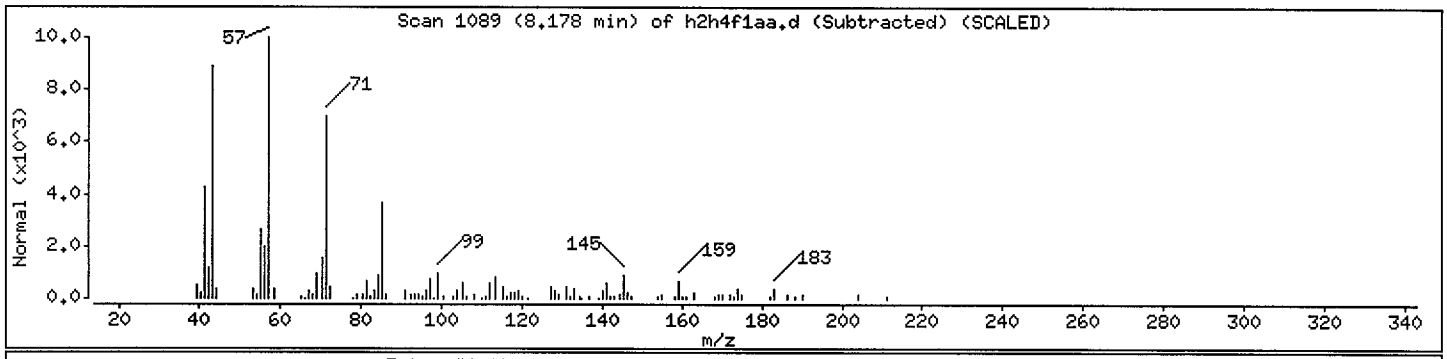
Volume Injected (uL): 1.0

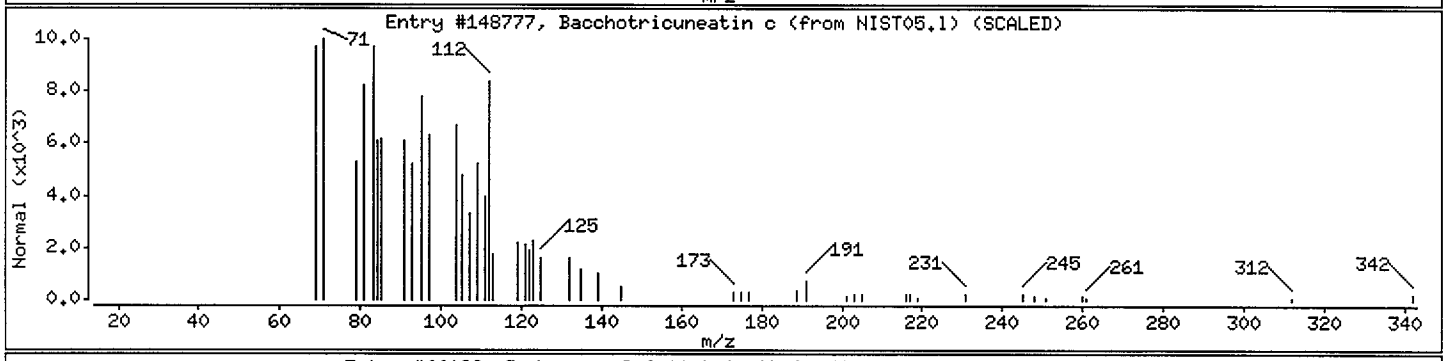
Operator: 60841

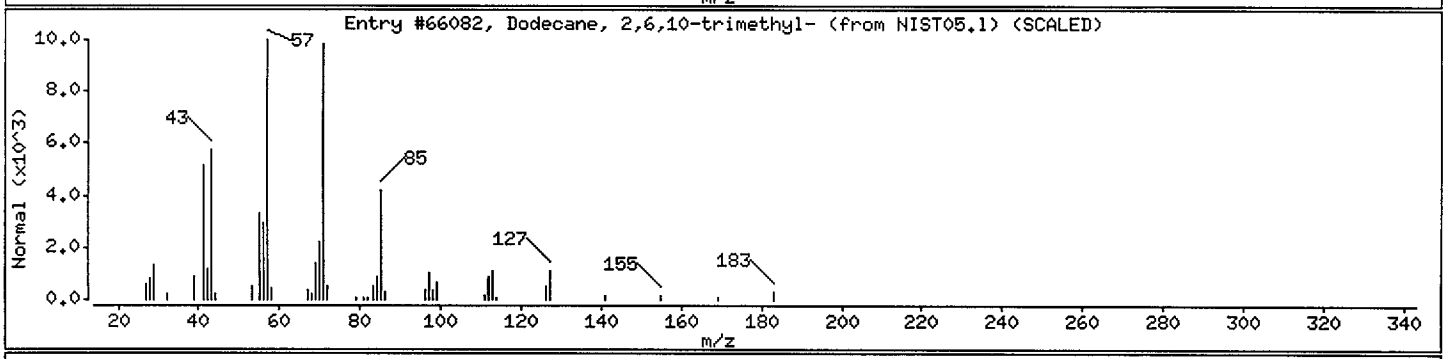
Column phase: ZB-5

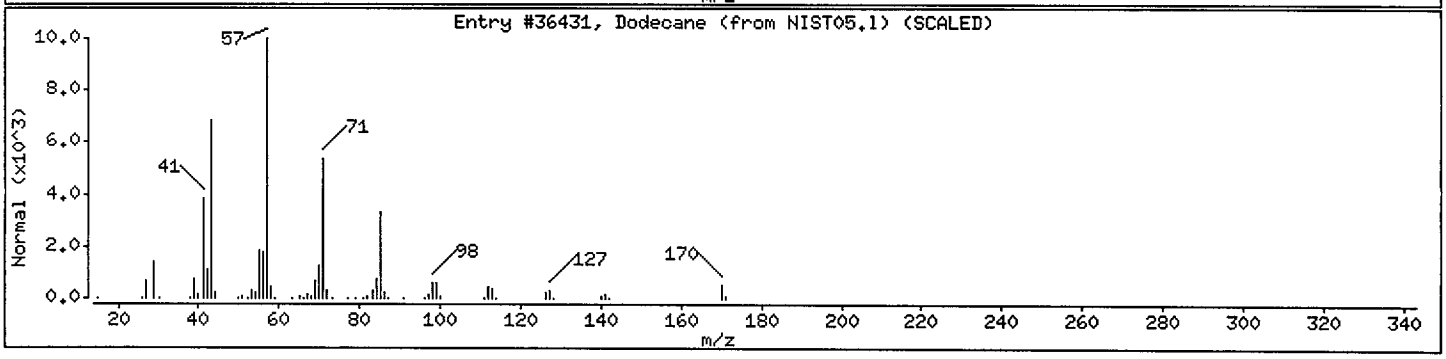
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bacchotricuneatin c	66563-30-2	NIST05.1	148777	98	C20H22O5	342
Dodecane, 2,6,10-trimethyl-	3891-98-3	NIST05.1	66082	87	C15H32	212
Dodecane	112-40-3	NIST05.1	36431	87	C12H26	170









Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

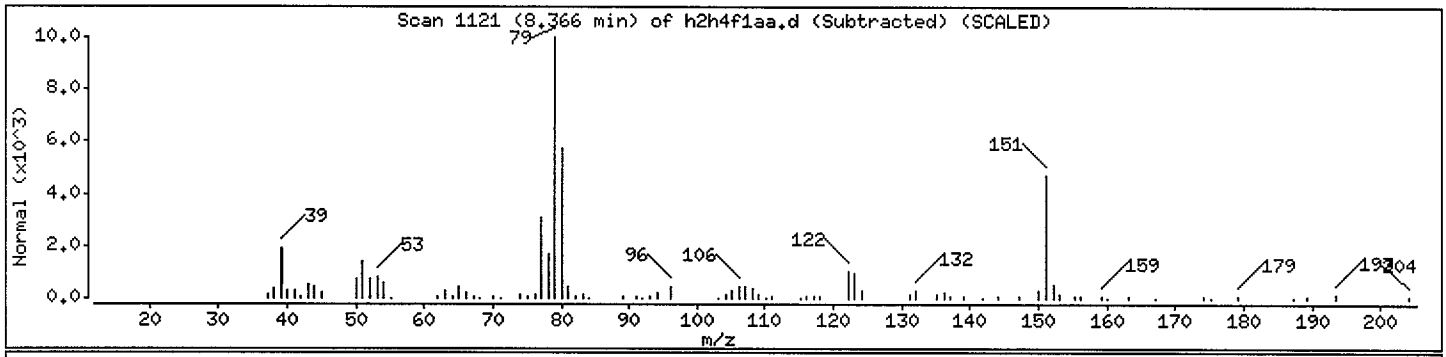
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

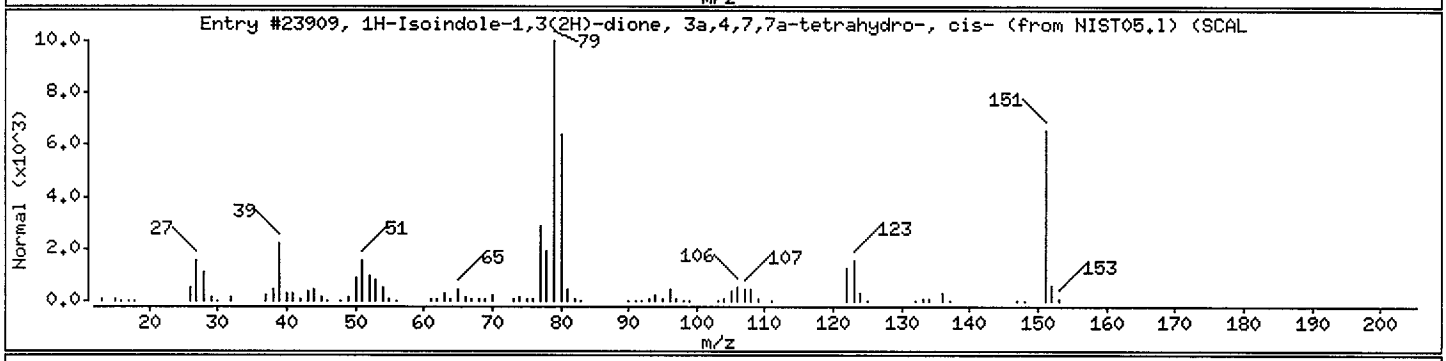
Sample Info: H2H4F1AA,5,0,,,,

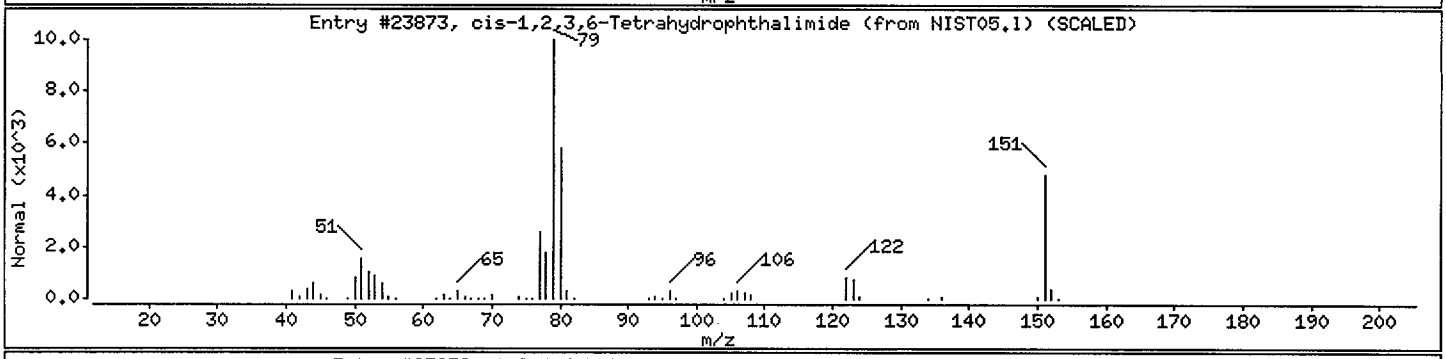
Volume Injected (uL): 1.0 | Operator: 60841

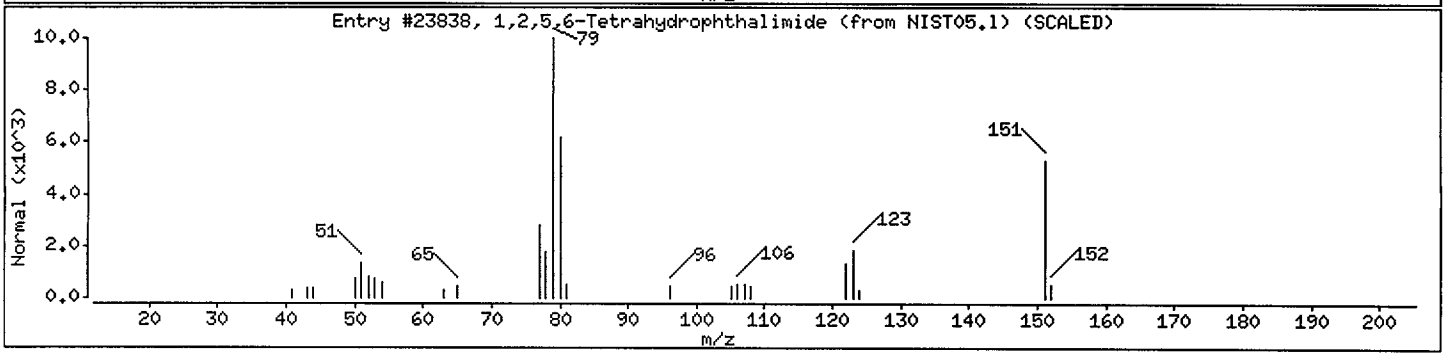
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-te	1469-48-3	NIST05.1	23909	96	C8H9NO2	151
cis-1,2,3,6-Tetrahydrophthalimide	27813-21-4	NIST05.1	23873	94	C8H9NO2	151
1,2,5,6-Tetrahydrophthalimide	85-40-5	NIST05.1	23838	93	C8H9NO2	151









Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

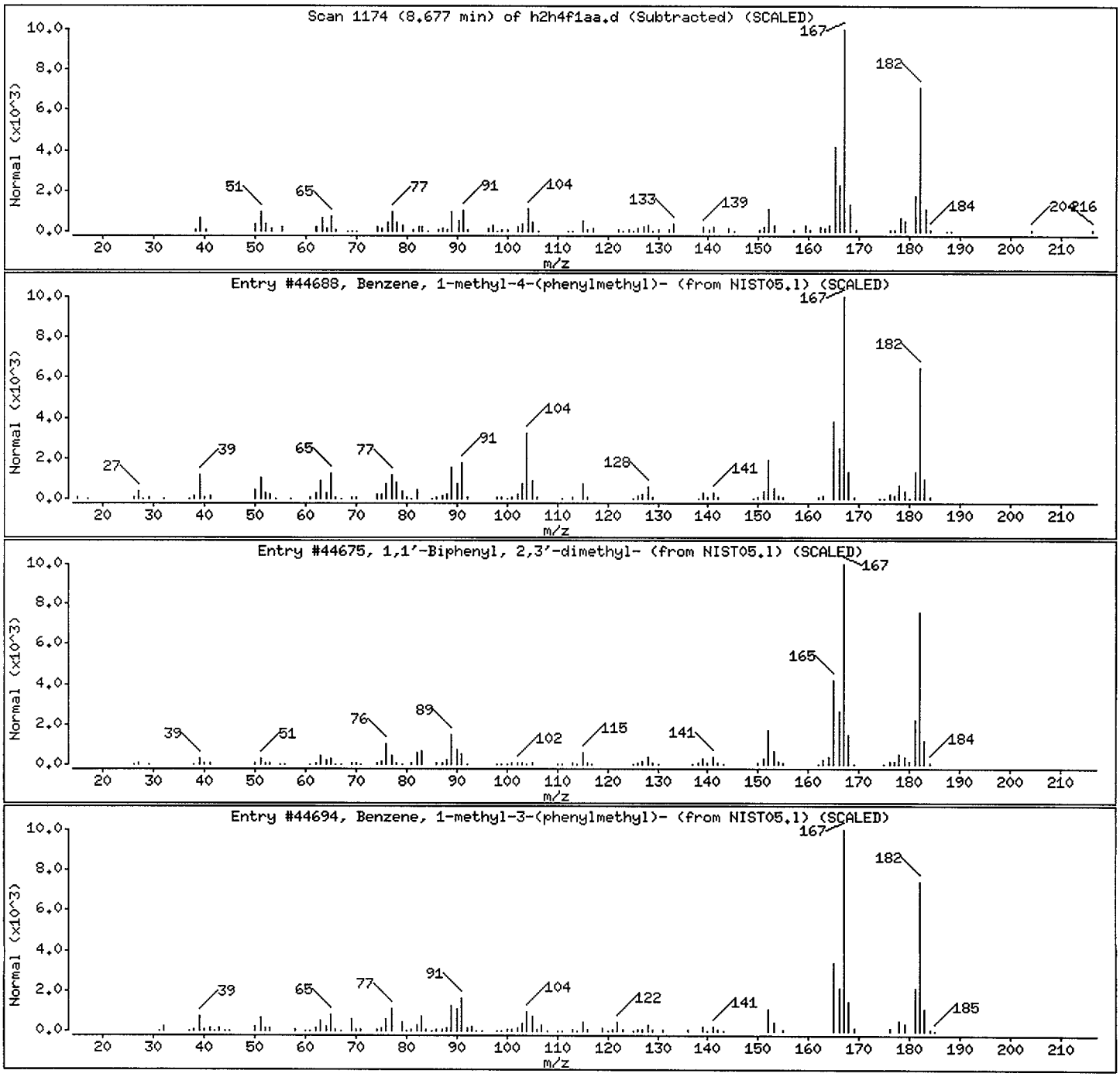
Client ID: G-3071-R3-SPENT ACT | Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-(phenylmethyl)-	620-83-7	NIST05.1	44688	96	C14H14	182
1,1'-Biphenyl, 2,3'-dimethyl-	611-43-8	NIST05.1	44675	95	C14H14	182
Benzene, 1-methyl-3-(phenylmethyl)-	620-47-3	NIST05.1	44694	94	C14H14	182



Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

Client ID: G-3071-R3-SPENT ACT

Instrument: md.i

Sample Info: H2H4F1AA,5,0,,,,

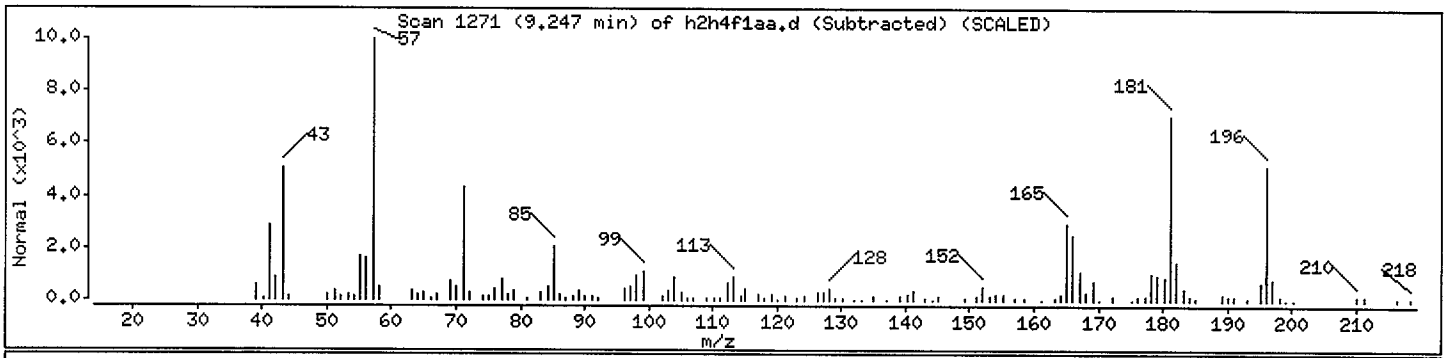
Volume Injected (uL): 1.0

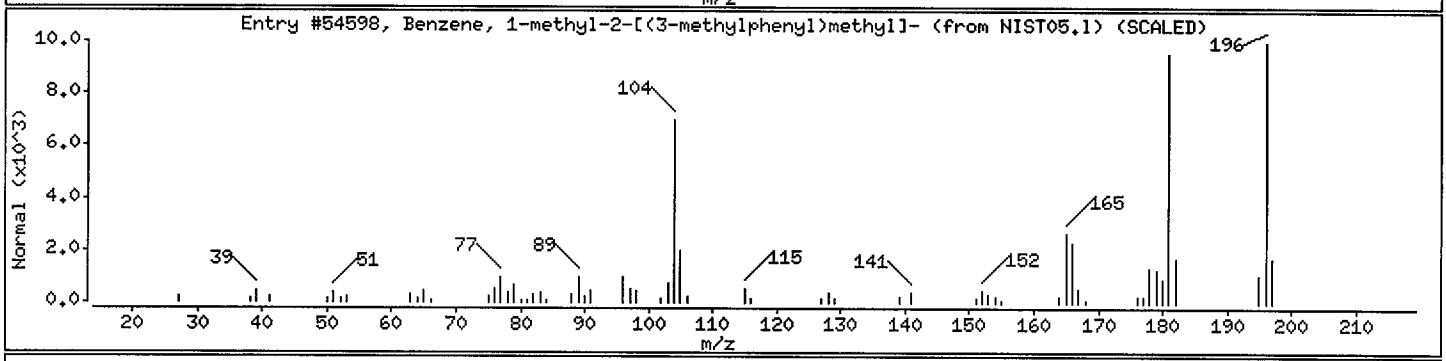
Operator: 60841

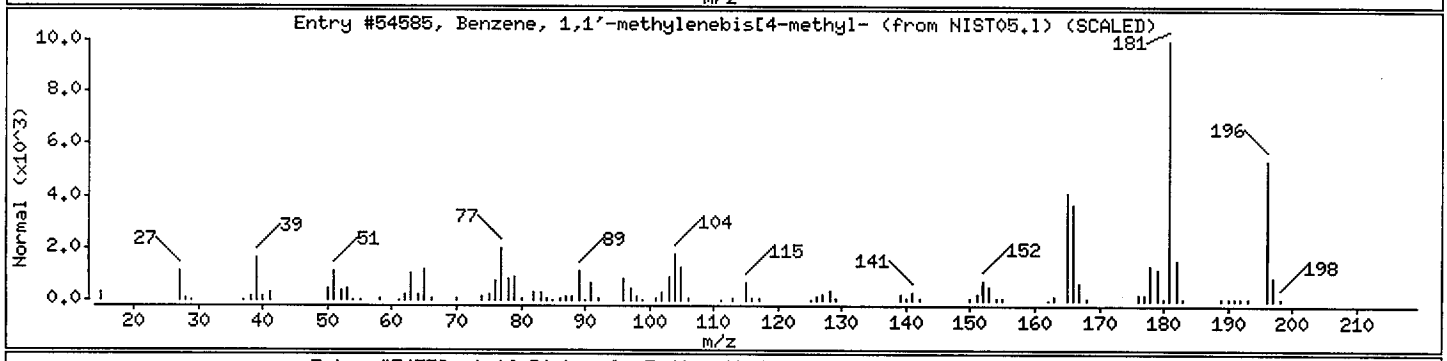
Column phase: ZB-5

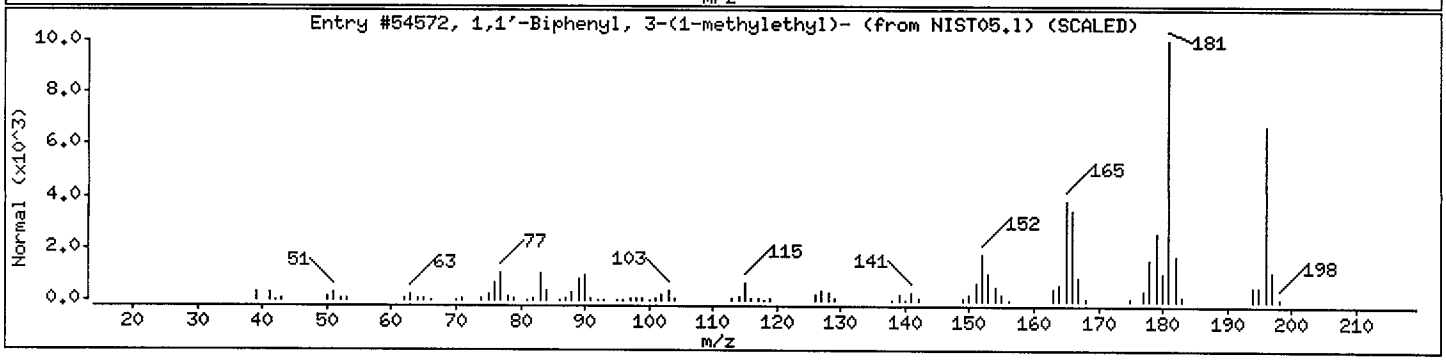
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-2-[(3-methylphenyl)met	21895-13-6	NIST05.1	54598	91	C15H16	196
Benzene, 1,1'-methylenebis[4-methyl-	4957-14-6	NIST05.1	54585	86	C15H16	196
1,1'-Biphenyl, 3-(1-methylethyl)-	20282-30-8	NIST05.1	54572	83	C15H16	196









Data File: /var/chem/gcms/md.i/D041806.b/h2h4f1aa.d

Date : 18-APR-2006 13:17

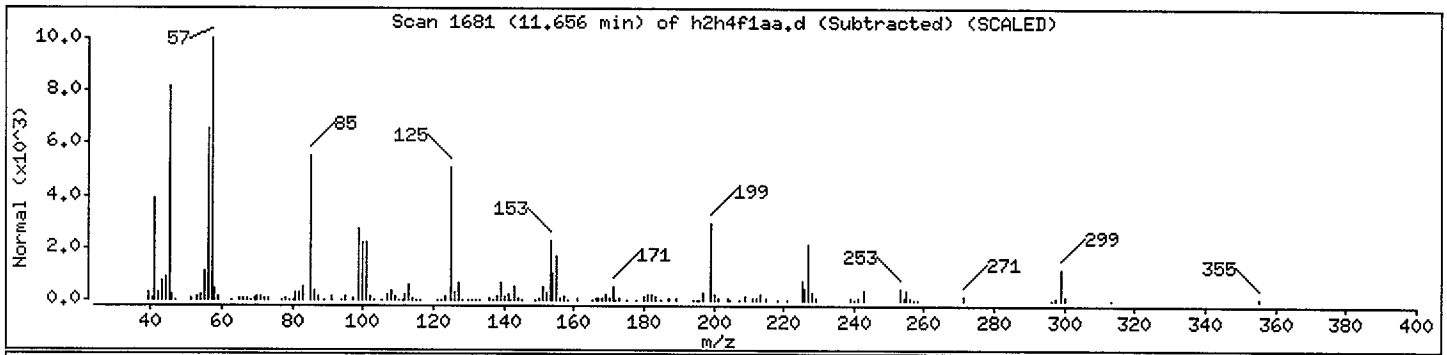
Client ID: G-3071-R3-SPENT ACT — Instrument: md.i

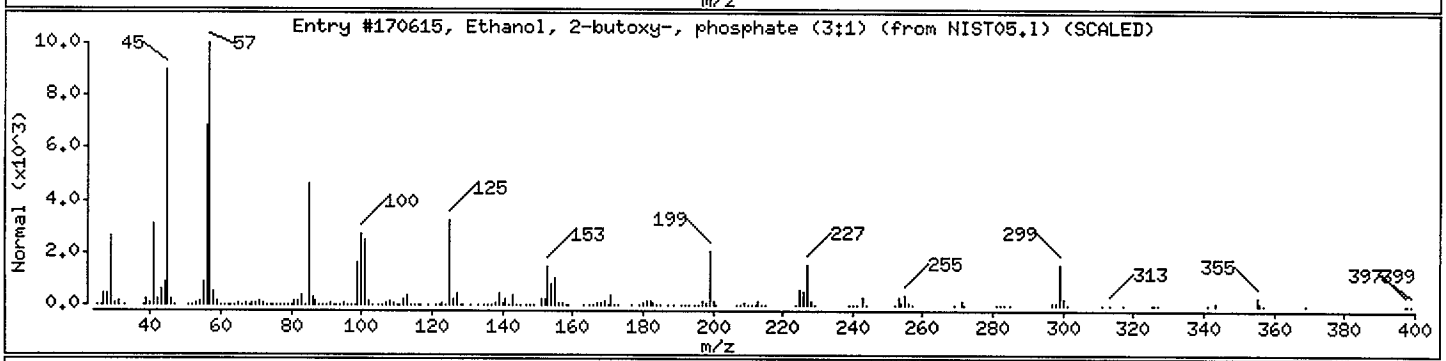
Sample Info: H2H4F1AA,5,0,,,,

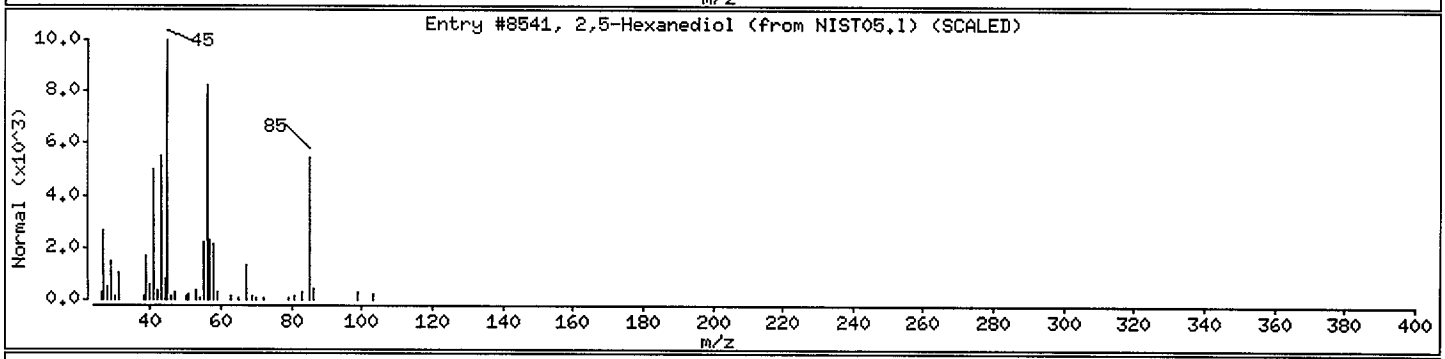
Volume Injected (uL): 1.0 — Operator: 60841

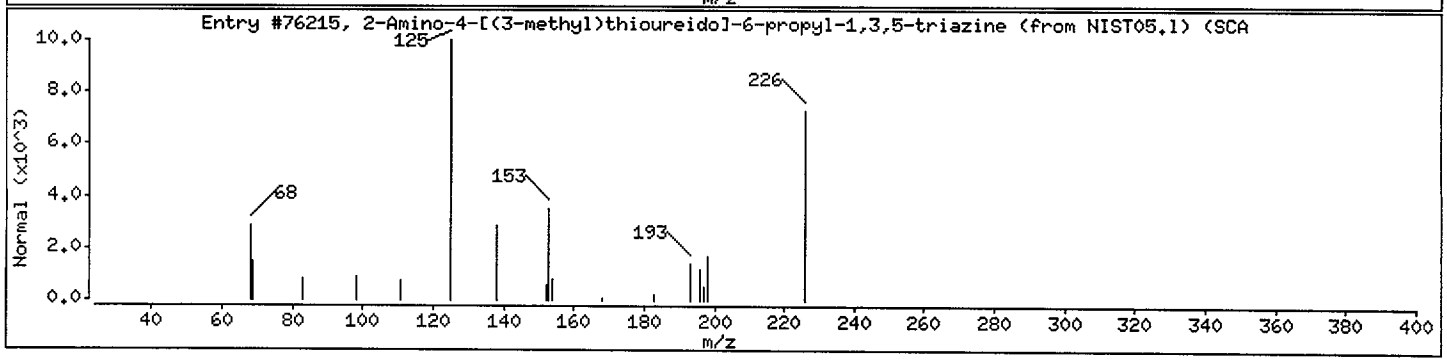
Column phase: ZB-5 — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-, phosphate (3:1)	78-51-3	NIST05.1	170615	68	C18H3907P	398
2,5-Hexanediol	2935-44-6	NIST05.1	8541	32	C6H1402	118
2-Amino-4-[(3-methyl)thioureido]-6-propy	106013-59-6	NIST05.1	76215	14	C8H14N6S	226









STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(36 - 98)
Phenol-d5	44 *	(49 - 109)
Nitrobenzene-d5	53 *	(57 - 120)
2-Fluorobiphenyl	64	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
Terphenyl-d14	46	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-011 **Work Order #:** H2H4G1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	5.7 NJ	M	1.9496	ug/L
Unknown		110 NJ	M	3.9003	ug/L
Unknown		97 NJ	M	4.1118	ug/L
Unknown		44 NJ	M	5.6042	ug/L
Unknown		4.5 NJ	M	10.845	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Lab Smp Id: H2H4G1AA Client Smp ID: G-3075-R3-SCRUBBER
Inj Date : 18-APR-2006 21:57
Operator : 60841 Inst ID: md.i
Smp Info : H2H4G1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	930.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

4/20/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	59803	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	198127	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	136216	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	241879	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	253550	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	228734	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	119591	28.5956	30.7
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	165015	32.7105	35.2(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	119314	26.7157	28.7(R)
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	286404	31.8933	34.3
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	63537	41.4262	44.5
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	286661	23.2446	25.0
21 Benzyl alcohol	108	4.135	4.323	(0.994)	1333	0.50436	~~0.542~~
23 2-Methylphenol	108	4.112	4.476	(0.989)	5977	1.57826	~~1.70~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Report Date: 19-Apr-2006 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
24 2,2'-Oxybis(1-Chloropropane)	45	4.171	4.500	(1.003)	11738	1.83569	~~1.97~~
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	3792	1.40894	~~1.51~~
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	9678	1.04789	1.13

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4g1aa.d
Lab Smp Id: H2H4G1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-3075-R3-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	59803	-3.43
2 Naphthalene-d8	196946	98473	393892	198127	0.60
3 Acenaphthene-d10	140395	70198	280790	136216	-2.98
4 Phenanthrene-d10	245474	122737	490948	241879	-1.46
5 Chrysene-d12	253631	126816	507262	253550	-0.03
6 Perylene-d12	225613	112806	451226	228734	1.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

RECOVERY REPORT

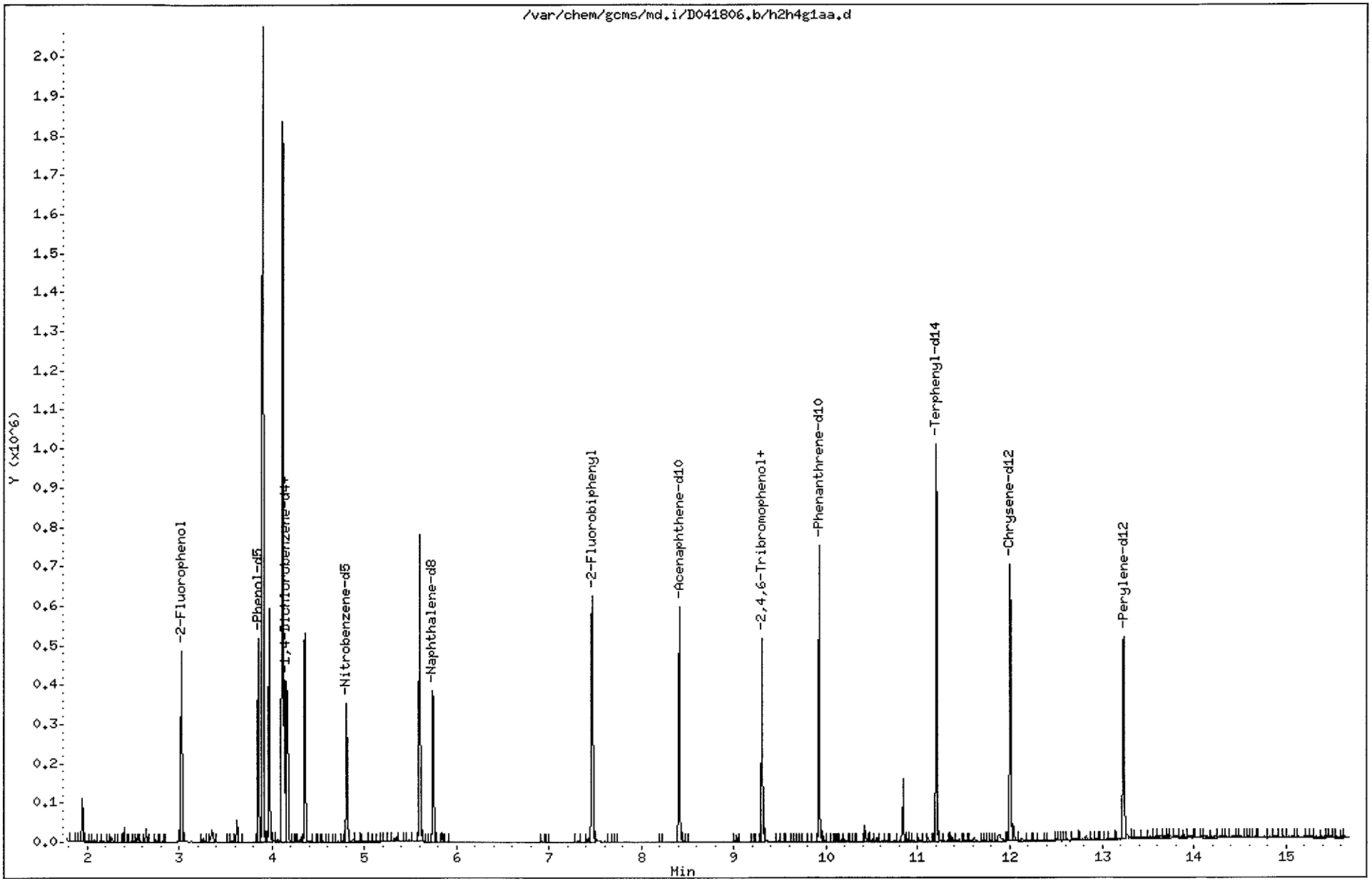
Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H4G1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-3075-R3-SCRUBBER
Operator: 60841
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	80.6	30.7	38.13	36-98
$ 8 Phenol-d5	80.6	35.2	43.61*	49-109
$ 9 Nitrobenzene-d5	53.8	28.7	53.43*	57-120
$ 10 2-Fluorobiphenyl	53.8	34.3	63.79	56-118
$ 11 2,4,6-Tribromophen	80.6	44.5	55.23	55-134
$ 12 Terphenyl-d14	53.8	25.0	46.49	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Date : 18-APR-2006 21:57
Client ID: G-3075-R3-SCRUBBER
Sample Info: H2H4G1AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0

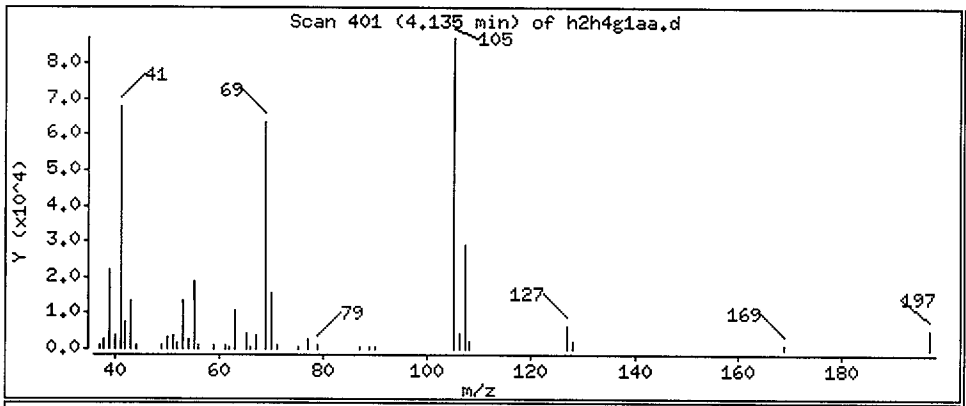
Operator: 60841

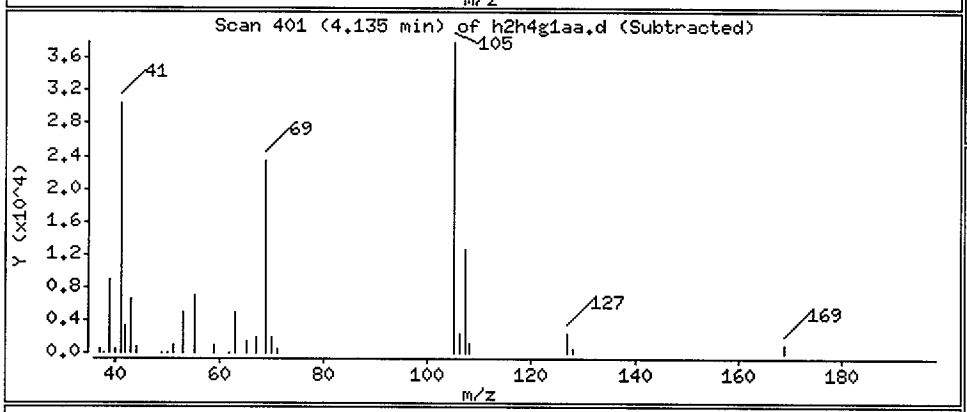
Column phase: ZB-5

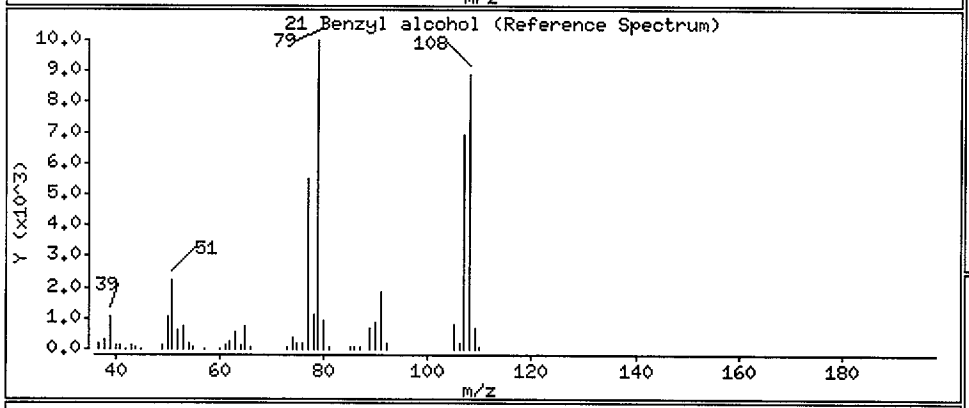
Column diameter: 0.25

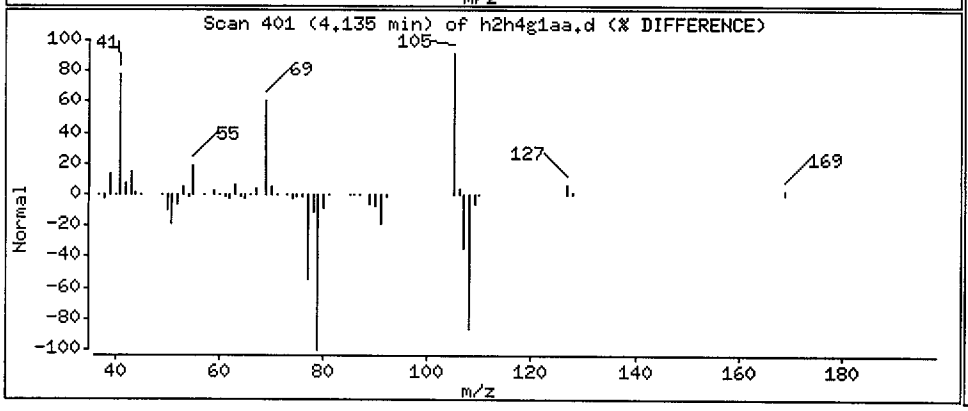
21 Benzyl alcohol

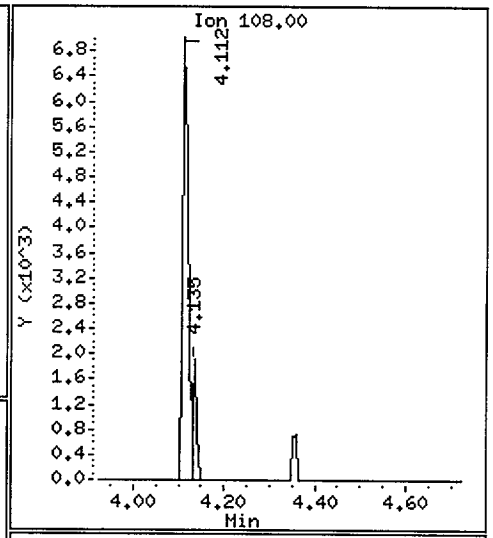
Concentration: 0.542 ug/L

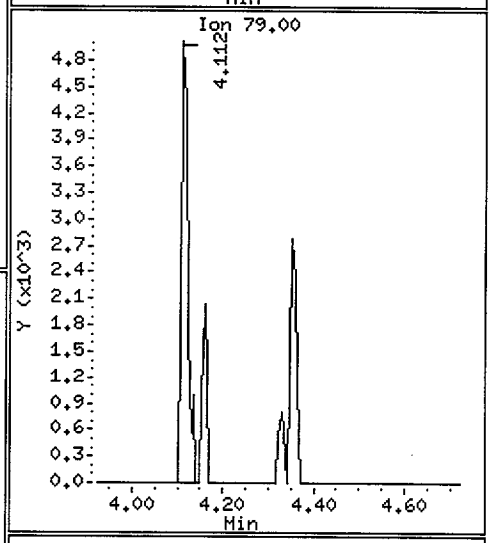


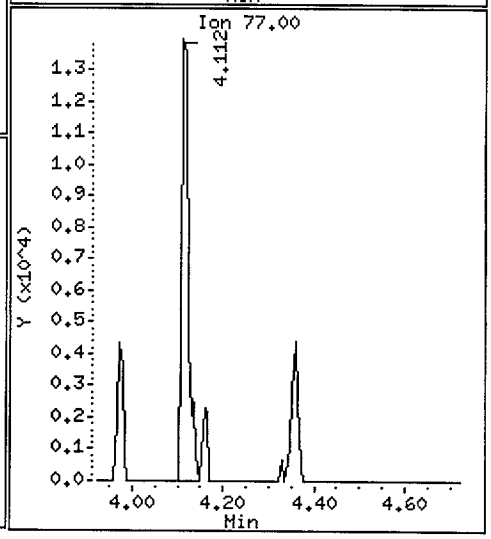












Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0

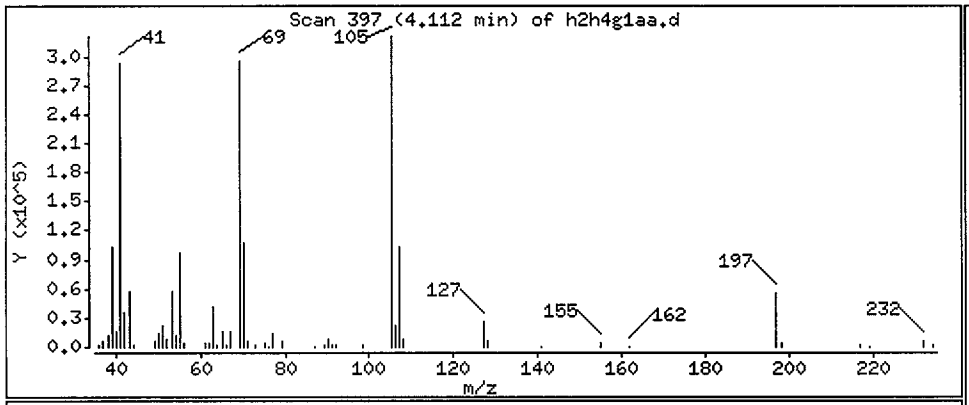
Operator: 60841

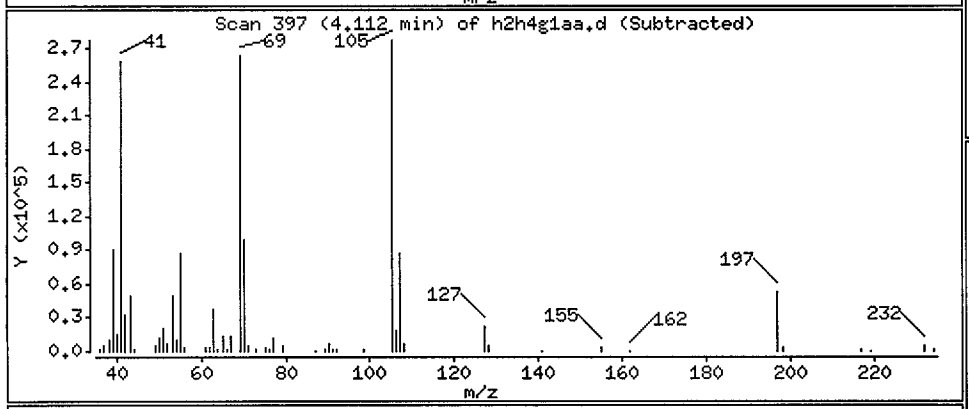
Column phase: ZB-5

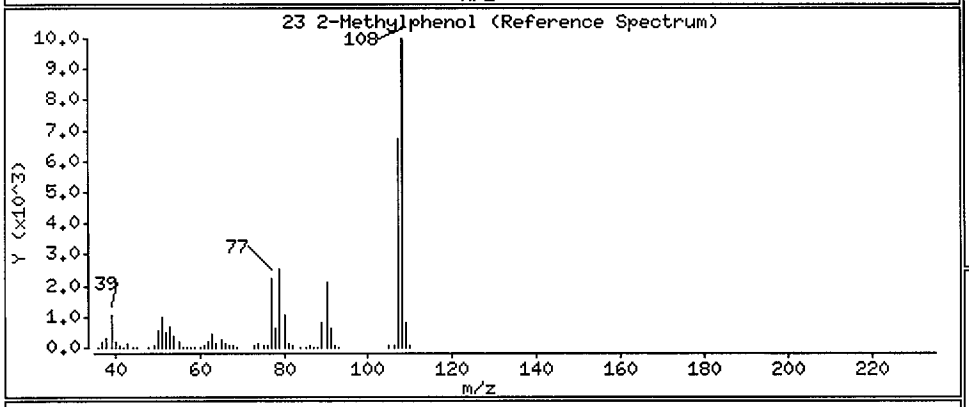
Column diameter: 0.25

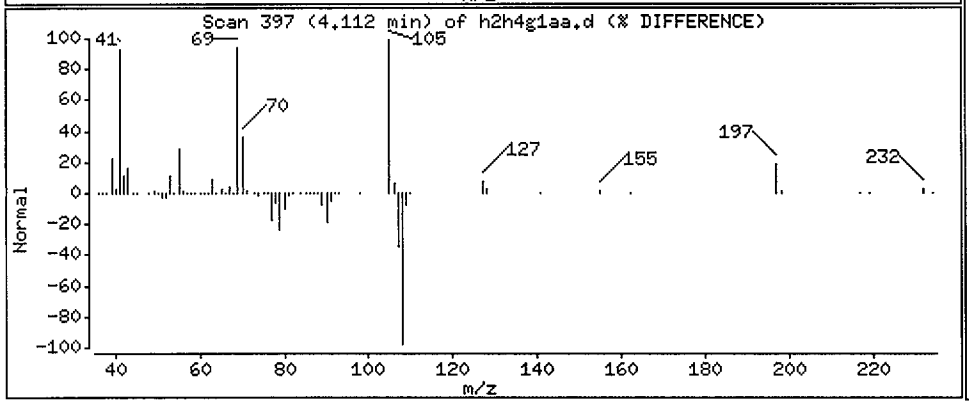
23 2-Methylphenol

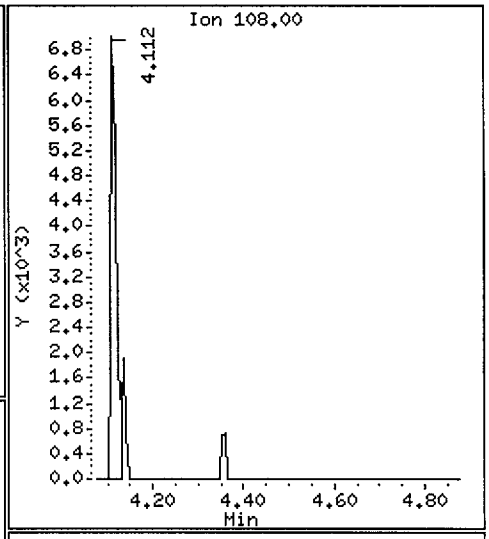
Concentration: 1.70 ug/L

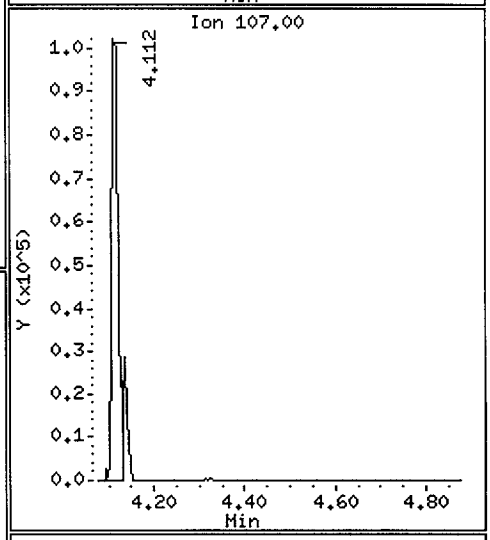


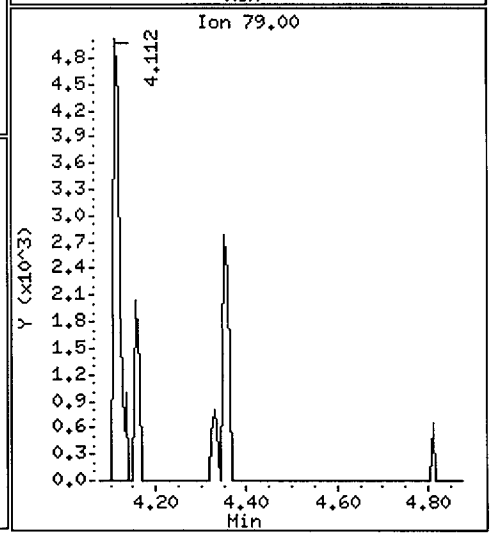












Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0

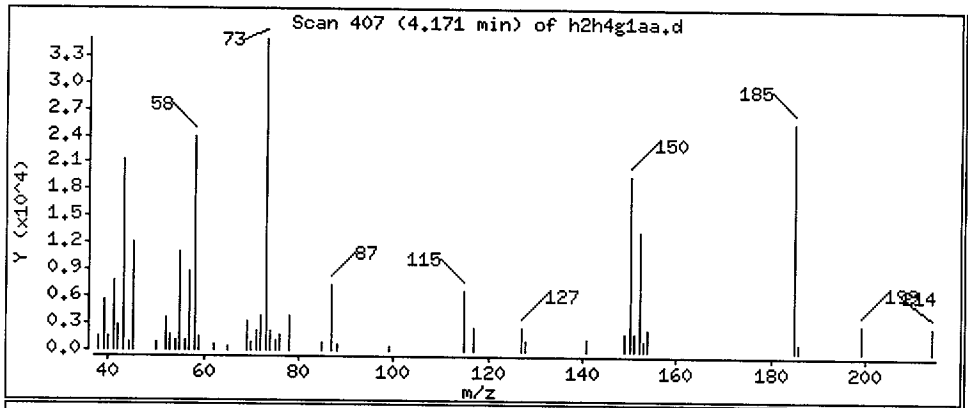
Operator: 60841

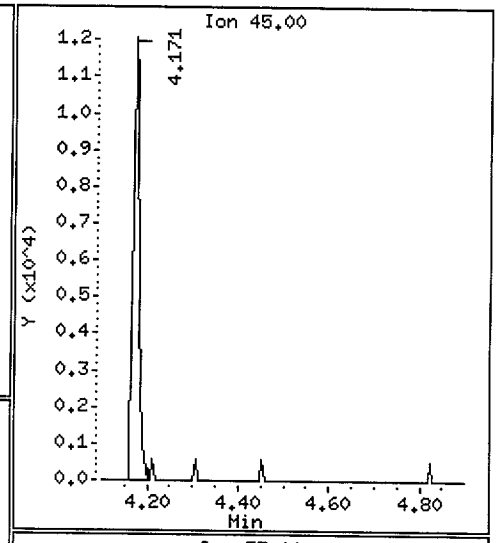
Column phase: ZB-5

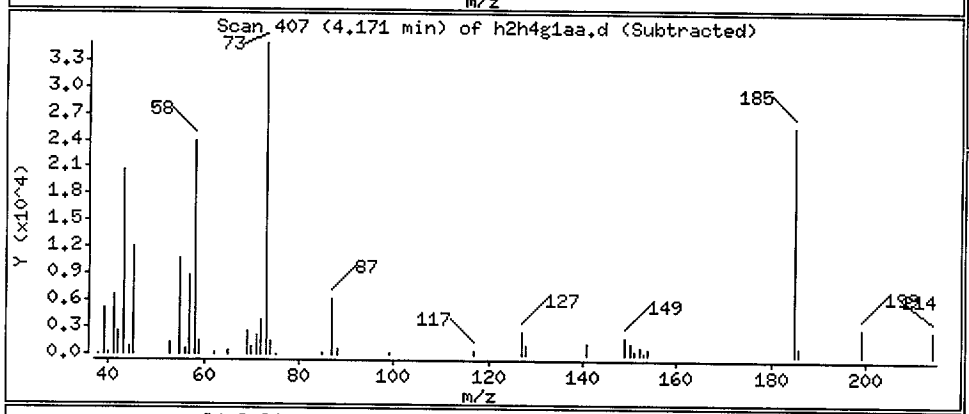
Column diameter: 0.25

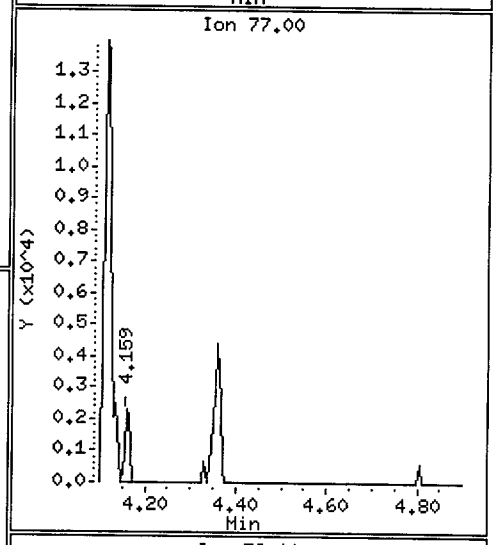
24 2,2'-Oxybis(1-Chloropropane)

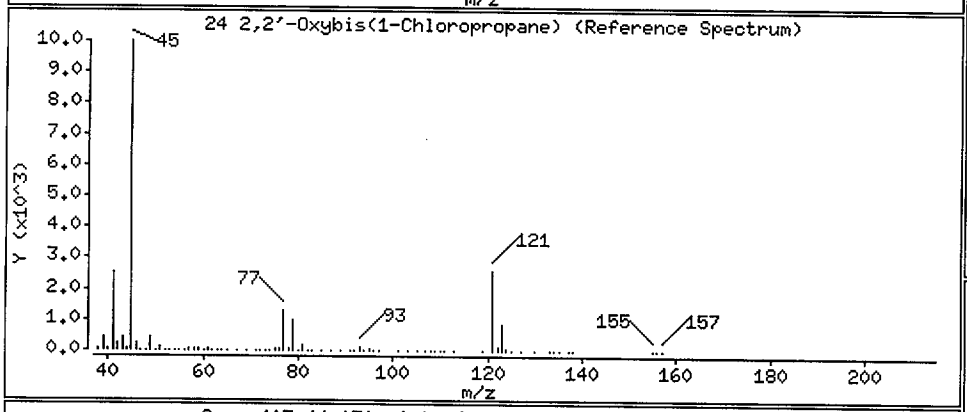
Concentration: 1.97 ug/L

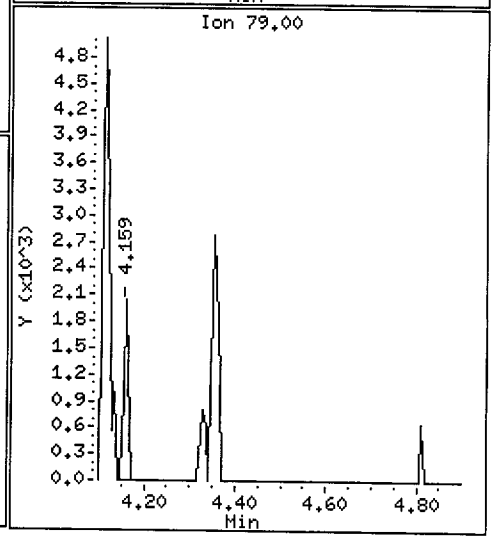


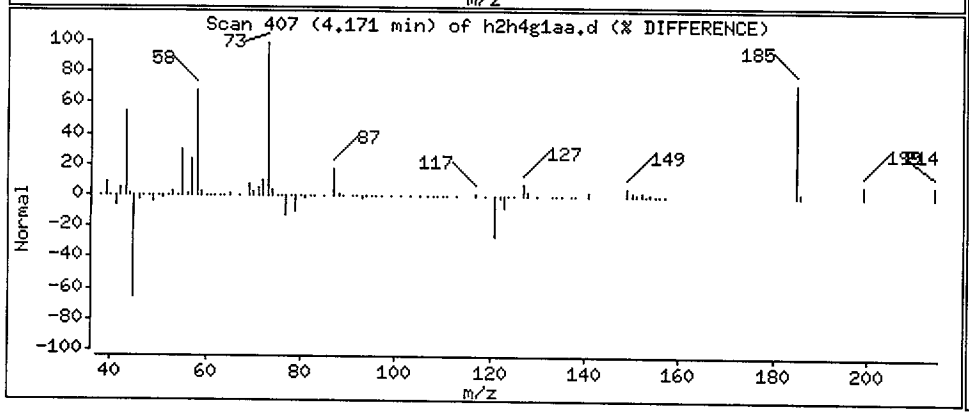












Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

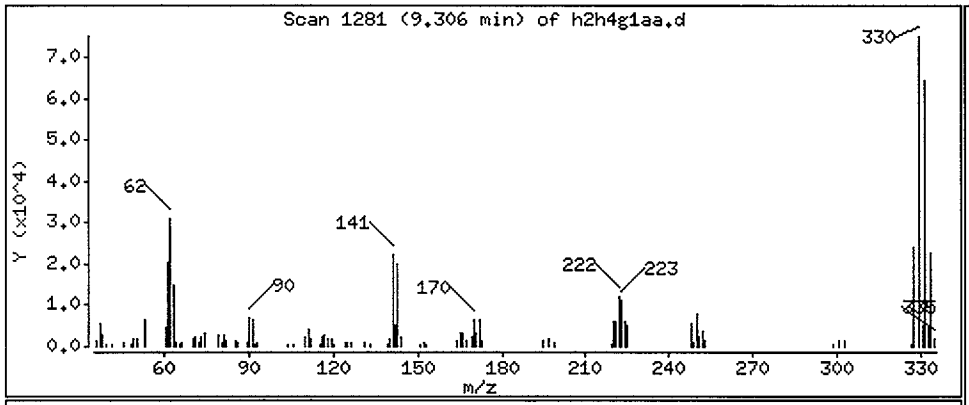
Client ID: G-3075-R3-SCRUBBER | Instrument: md.i

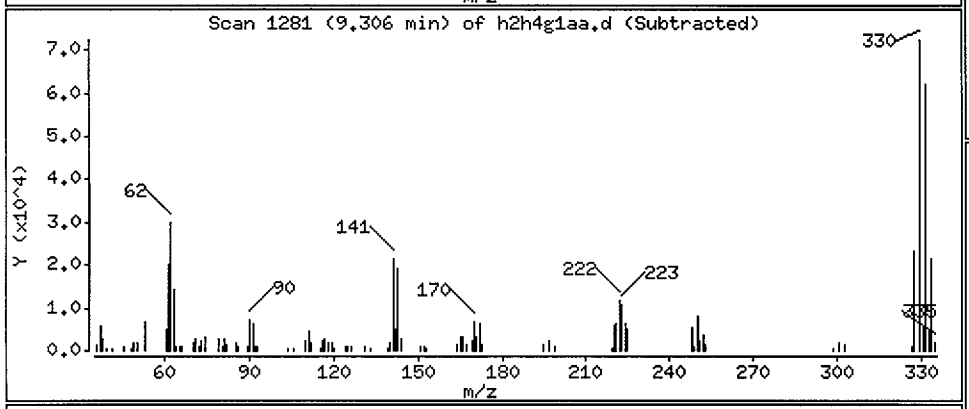
Sample Info: H2H4G1AA,,0,,,,

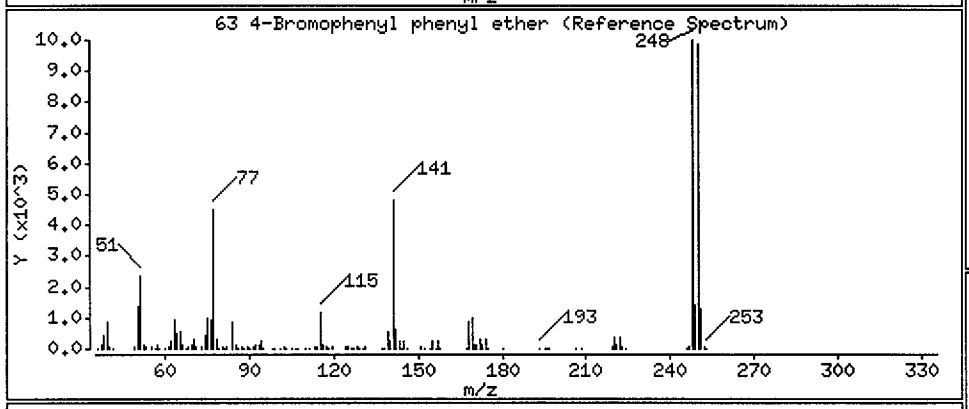
Volume Injected (uL): 1.0 | Operator: 60841

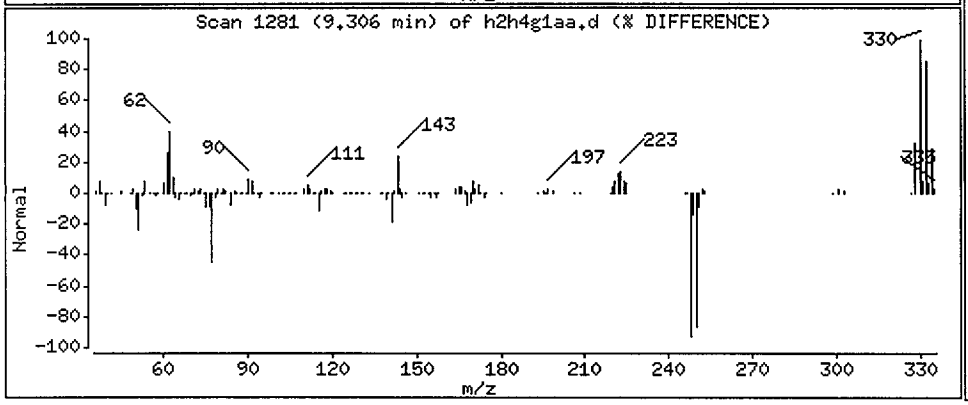
Column phase: ZB-5 | Column diameter: 0.25

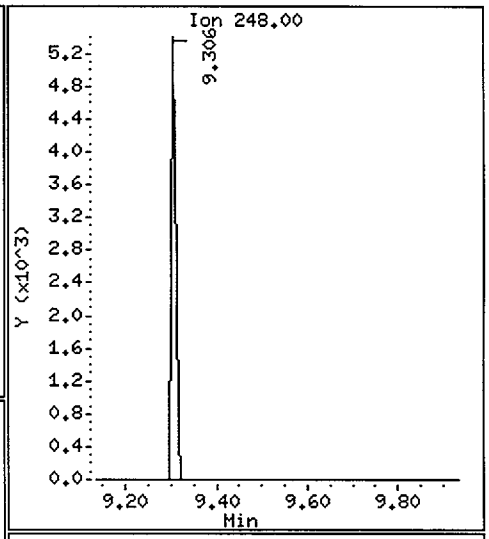
63 4-Bromophenyl phenyl ether | Concentration: 1.51 ug/L

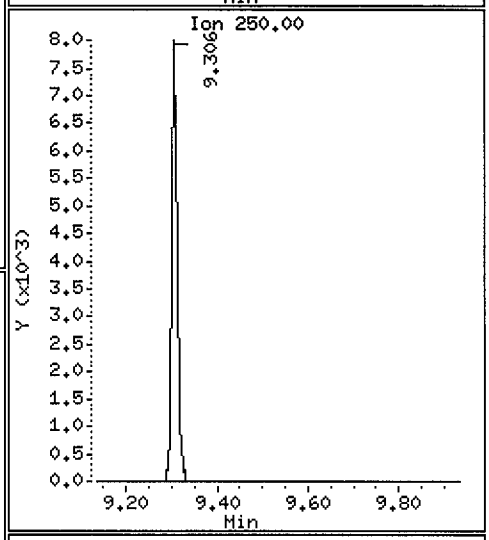


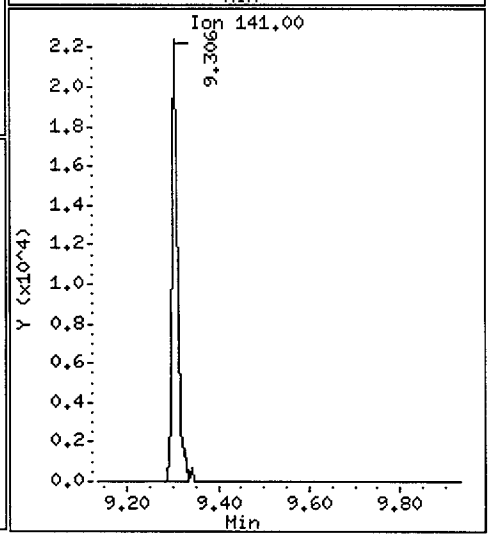












Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0

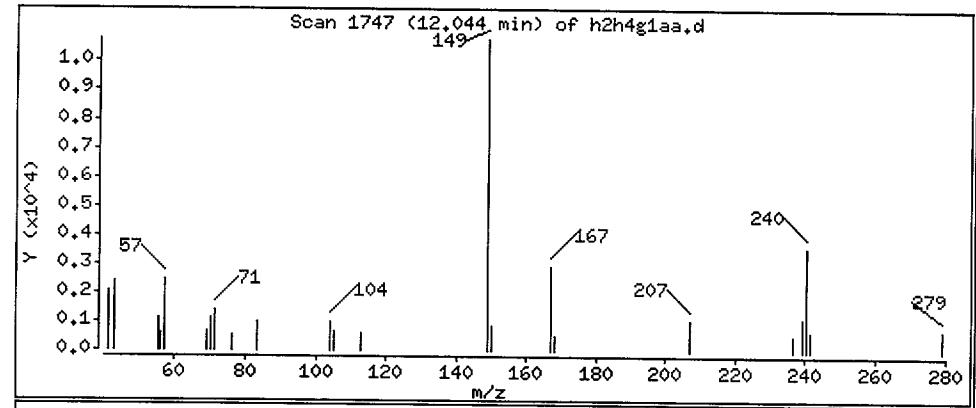
Operator: 60841

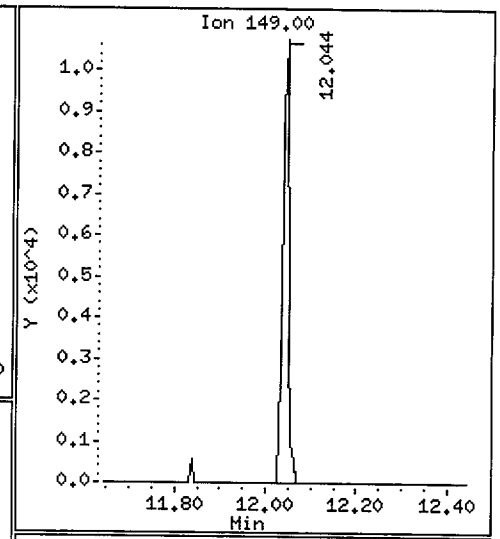
Column phase: ZB-5

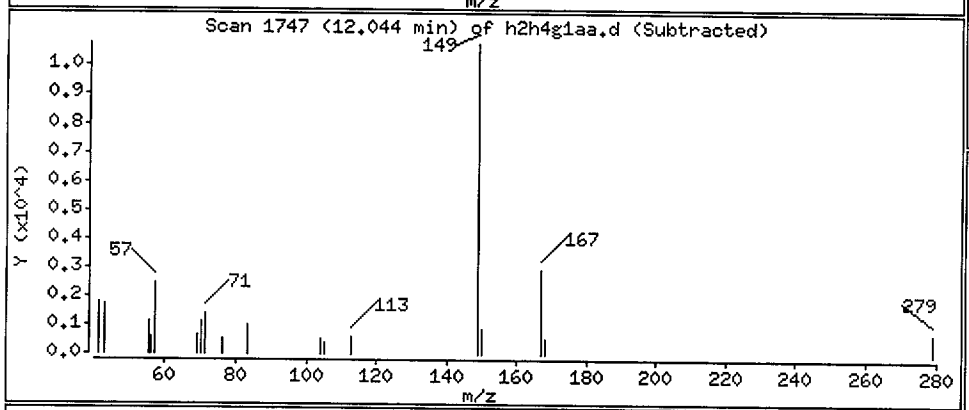
Column diameter: 0.25

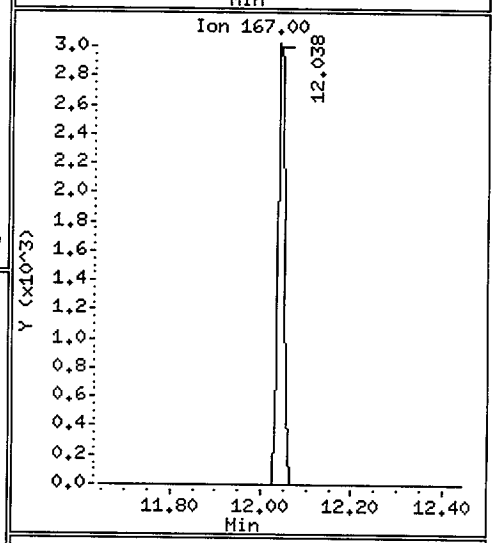
76 Bis(2-ethylhexyl) phthalate

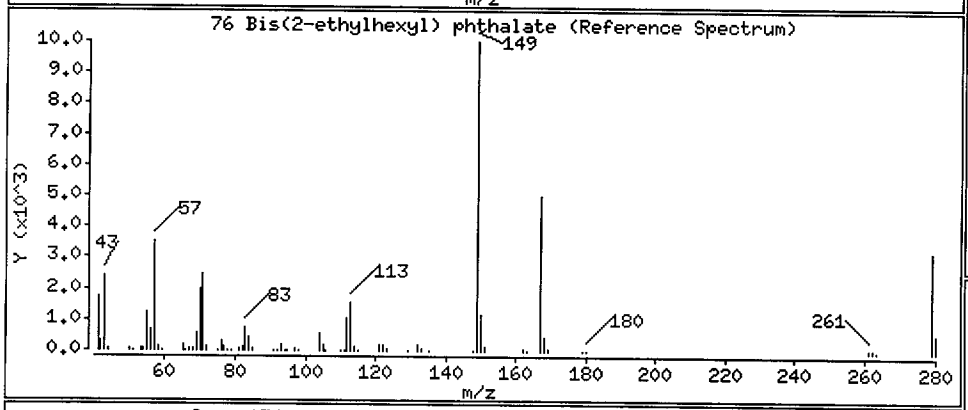
Concentration: 1.13 ug/L

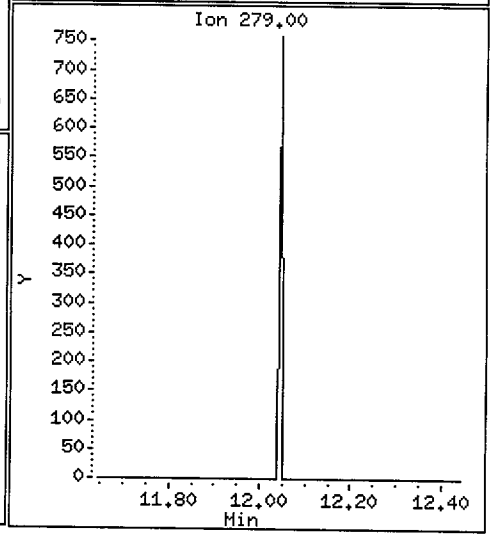


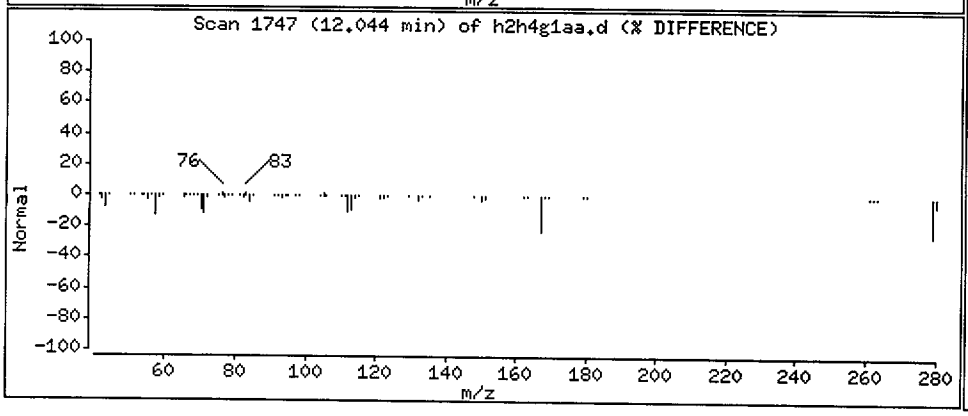












Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Report Date: 19-Apr-2006 15:53

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Lab Smp Id: H2H4G1AA Client Smp ID: G-3075-R3-SCRUBBER
Inj Date : 18-APR-2006 21:57
Operator : 60841 Inst ID: md.i
Smp Info : H2H4G1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	930.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	407128	20.000
* 2 Naphthalene-d8	5.745	383102	20.000
* 4 Phenanthrene-d10	9.923	752772	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Chloroiodomethane				CAS #: 593-71-5			
1.950	108753	5.34244758	5.74	90	NIST05.1	40830	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d
Report Date: 19-Apr-2006 15:53

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
1,3-Dioxolane, 2-ethyl-4-methyl-					CAS #: 4359-46-0		
3.900	2077567	102.059647	110	64	NIST05.1	7954	1
Imidazole, 4,5-dicyano-1-methyl- S					CAS #: 19485-35-9		
3.971	593004	29.1310841	31.3	22	NIST05.1	13946	1
6-Bromohexanoic acid, undecyl ester					CAS #: 1000282-90-4		
4.112	1835704	90.1782240	97.0	37	NIST05.1	151606	1
1,4-Dichlorobenzene-D4 S					CAS #: 3855-82-1		
4.359	530785	26.0746006	28.0	96	NIST05.1	23150	1
2,5-Isoxazolidinedicarboxylic acid, 2-et					CAS #: 15166-62-8		
5.604	779885	40.7142223	43.8	11	NIST05.1	59171	2
1-Naphthalenepropanol, .alpha.-ethenylde					CAS #: 1438-62-6		
10.845	158270	4.20499168	4.52	46	NIST05.1	118752	4

Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

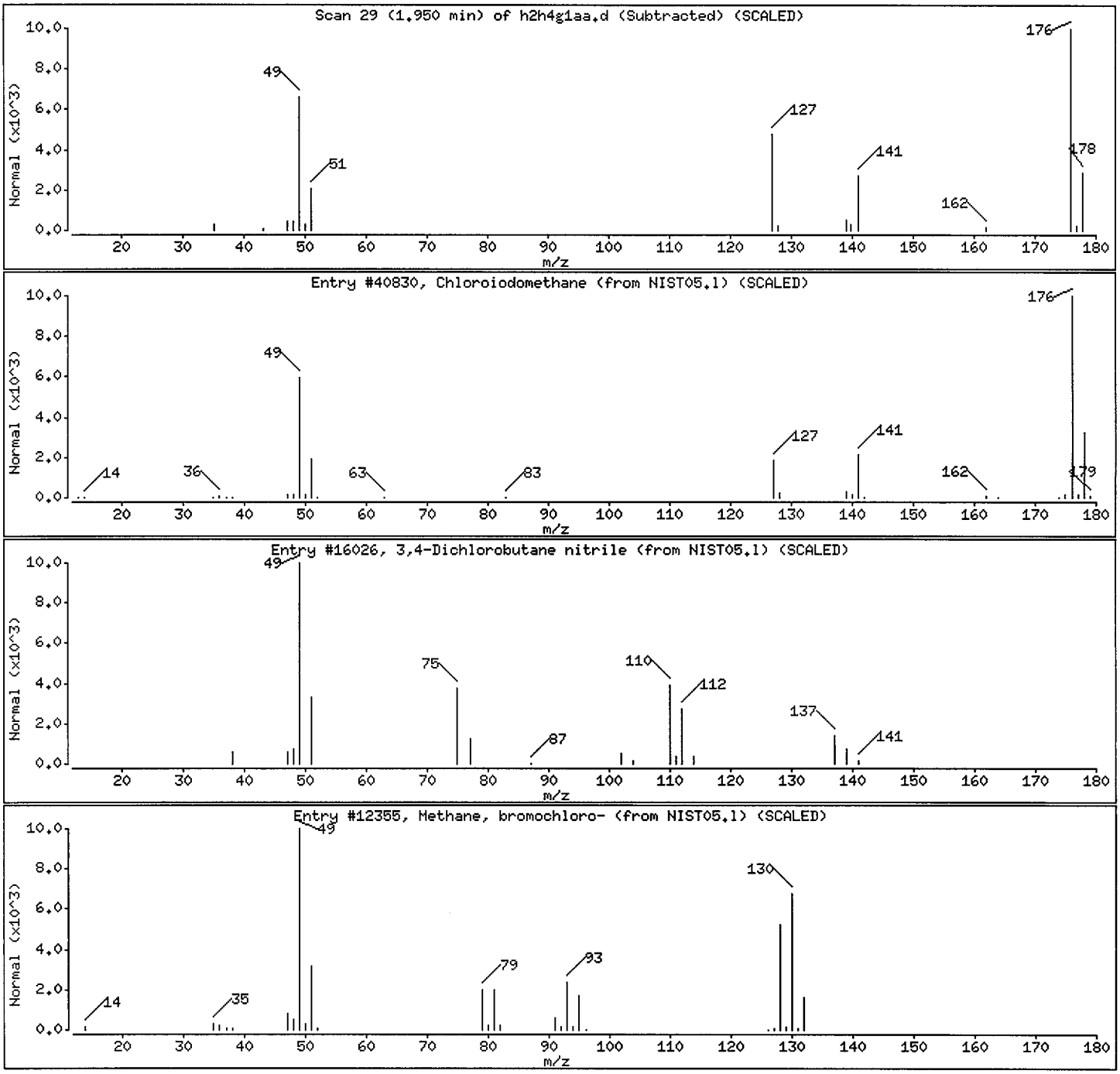
Client ID: G-3075-R3-SCRUBBER | Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chloroiodomethane	593-71-5	NIST05.1	40830	90	CH2ClI	176
3,4-Dichlorobutane nitrile	34362-21-5	NIST05.1	16026	37	C4H5Cl2N	137
Methane, bromochloro-	74-97-5	NIST05.1	12355	32	CH2BrCl	128



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

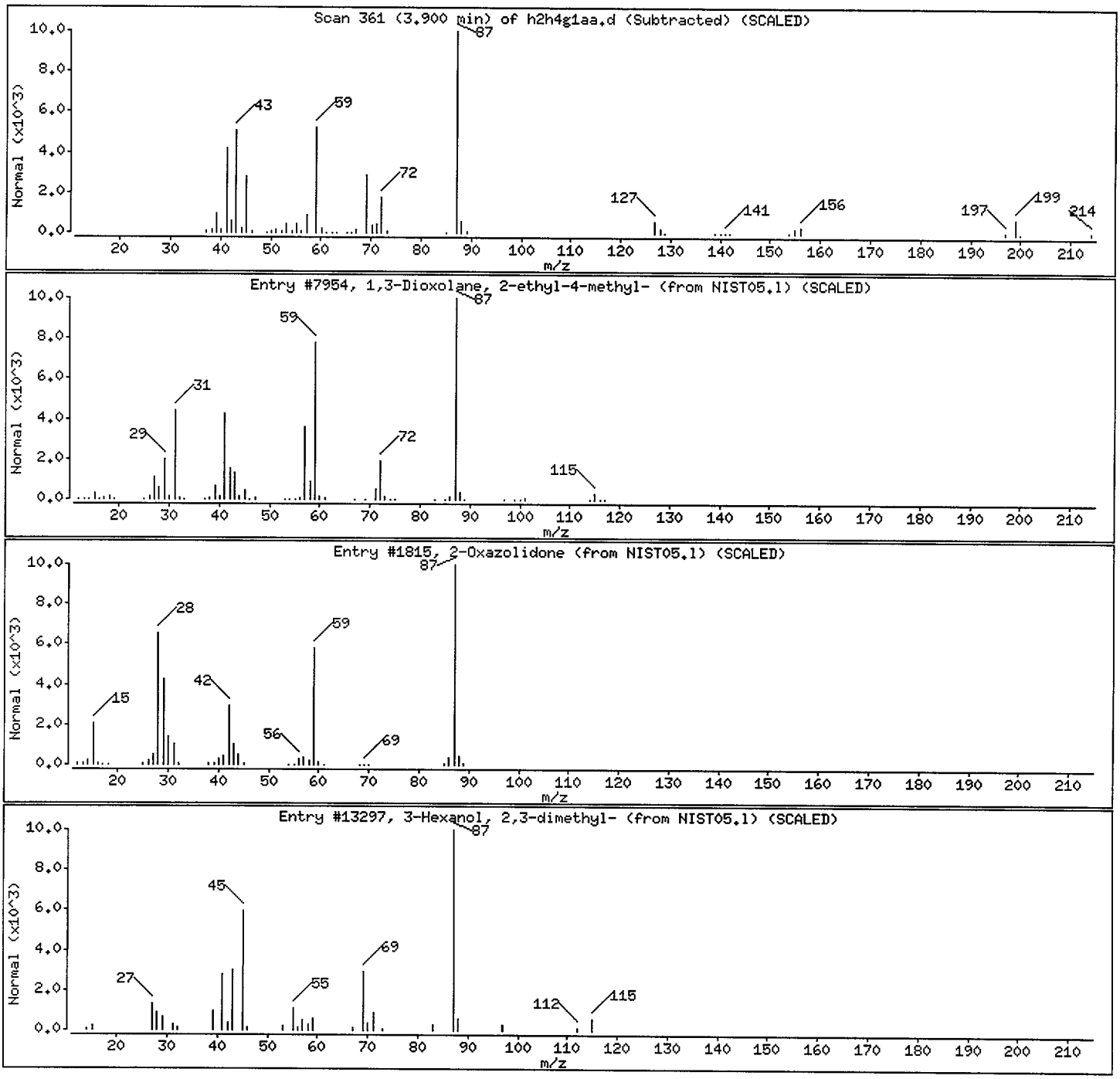
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,3-Dioxolane, 2-ethyl-4-methyl-	4359-46-0	NIST05.1	7954	64	C6H12O2	116
2-Oxazolidone	497-25-6	NIST05.1	1815	53	C3H5NO2	87
3-Hexanol, 2,3-dimethyl-	4166-46-5	NIST05.1	13297	47	C8H18O	130



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

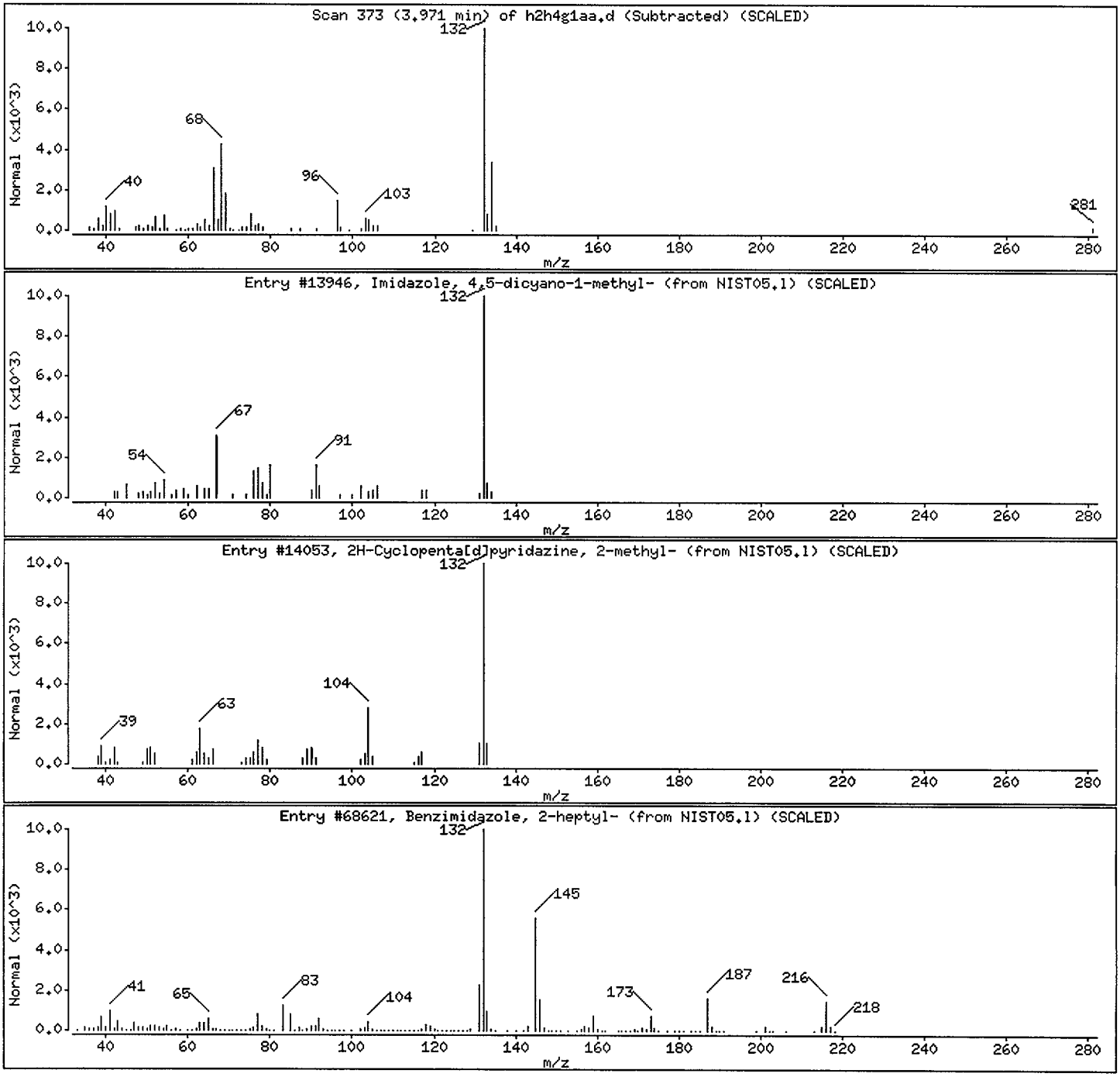
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Imidazole, 4,5-dicyano-1-methyl-	19485-35-9	NIST05.1	13946	22	C6H4N4	132
2H-Cyclopenta[d]pyridazine, 2-methyl-	22291-85-6	NIST05.1	14053	12	C8H8N2	132
Benzimidazole, 2-heptyl-	5851-49-0	NIST05.1	68621	10	C14H20N2	216



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

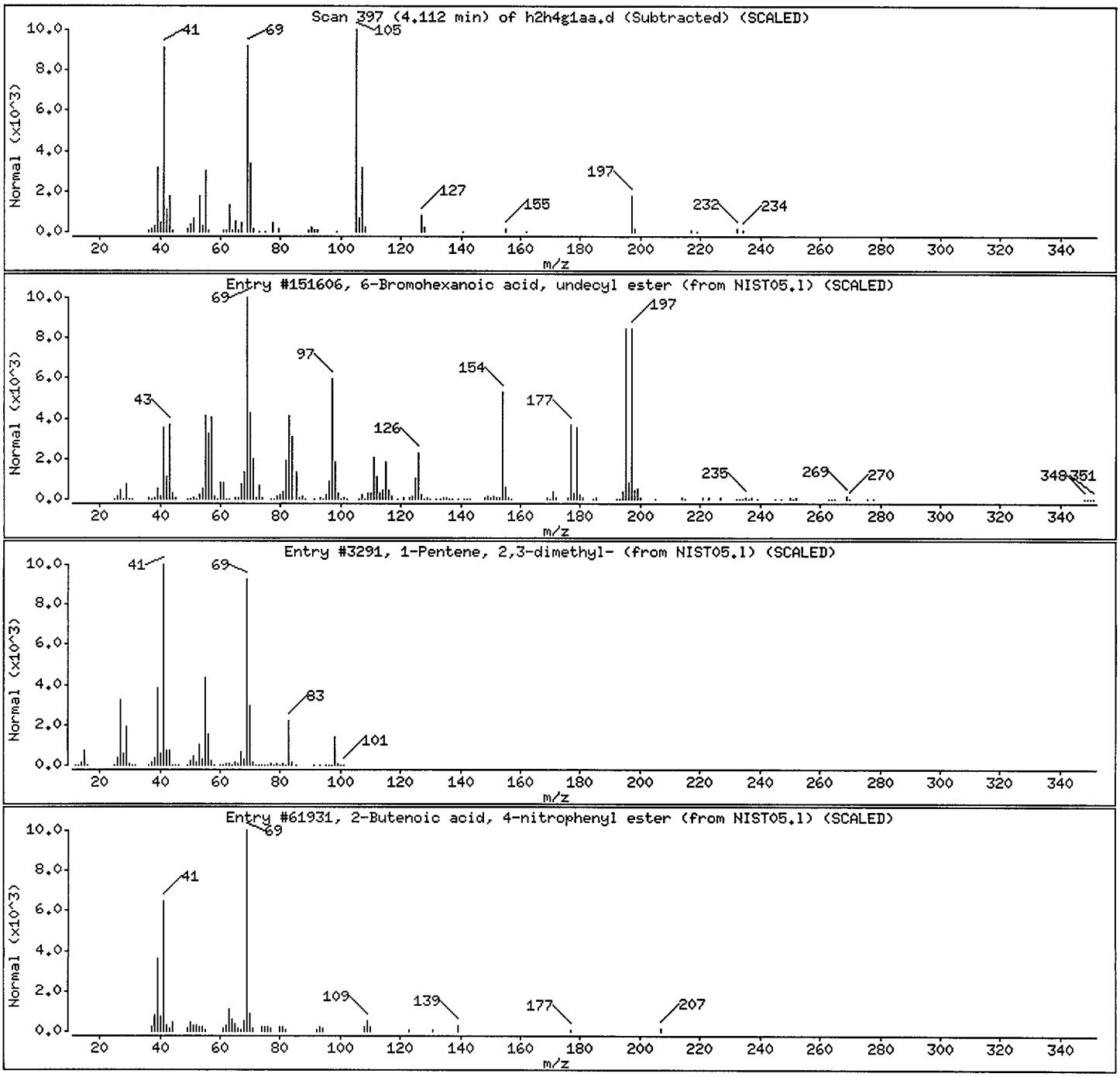
Client ID: G-3075-R3-SCRUBBER | Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
6-Bromohexanoic acid, undecyl ester	1000282-90-4	NIST05.1	151606	37	C17H33BrO2	348
1-Pentene, 2,3-dimethyl-	3404-72-6	NIST05.1	3291	37	C7H14	98
2-Butenoic acid, 4-nitrophenyl ester	35665-90-8	NIST05.1	61931	25	C10H9NO4	207



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

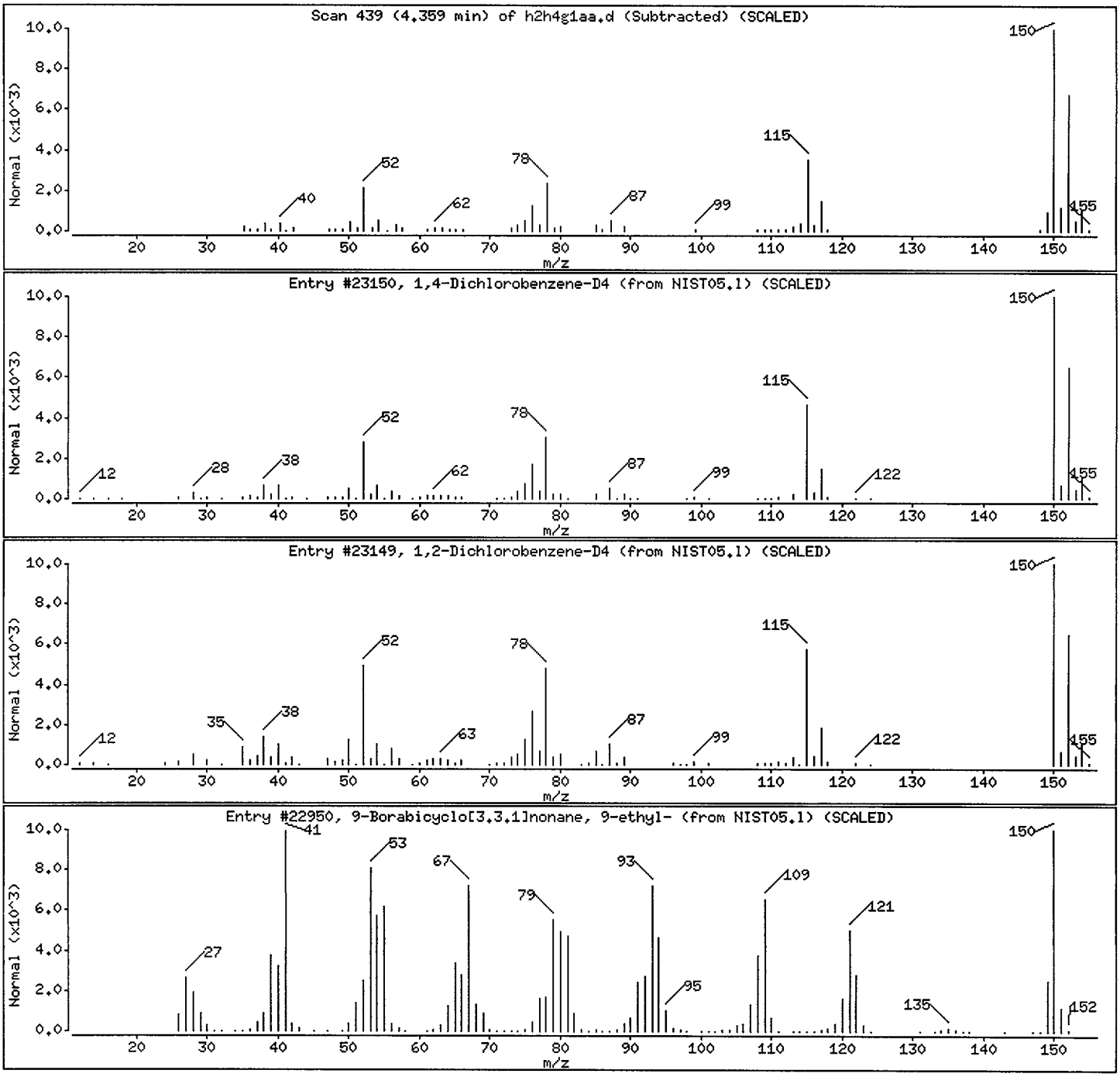
Client ID: G-3075-R3-SCRUBBER | Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.l	23150	96	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.l	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.l	22950	47	C10H19B	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

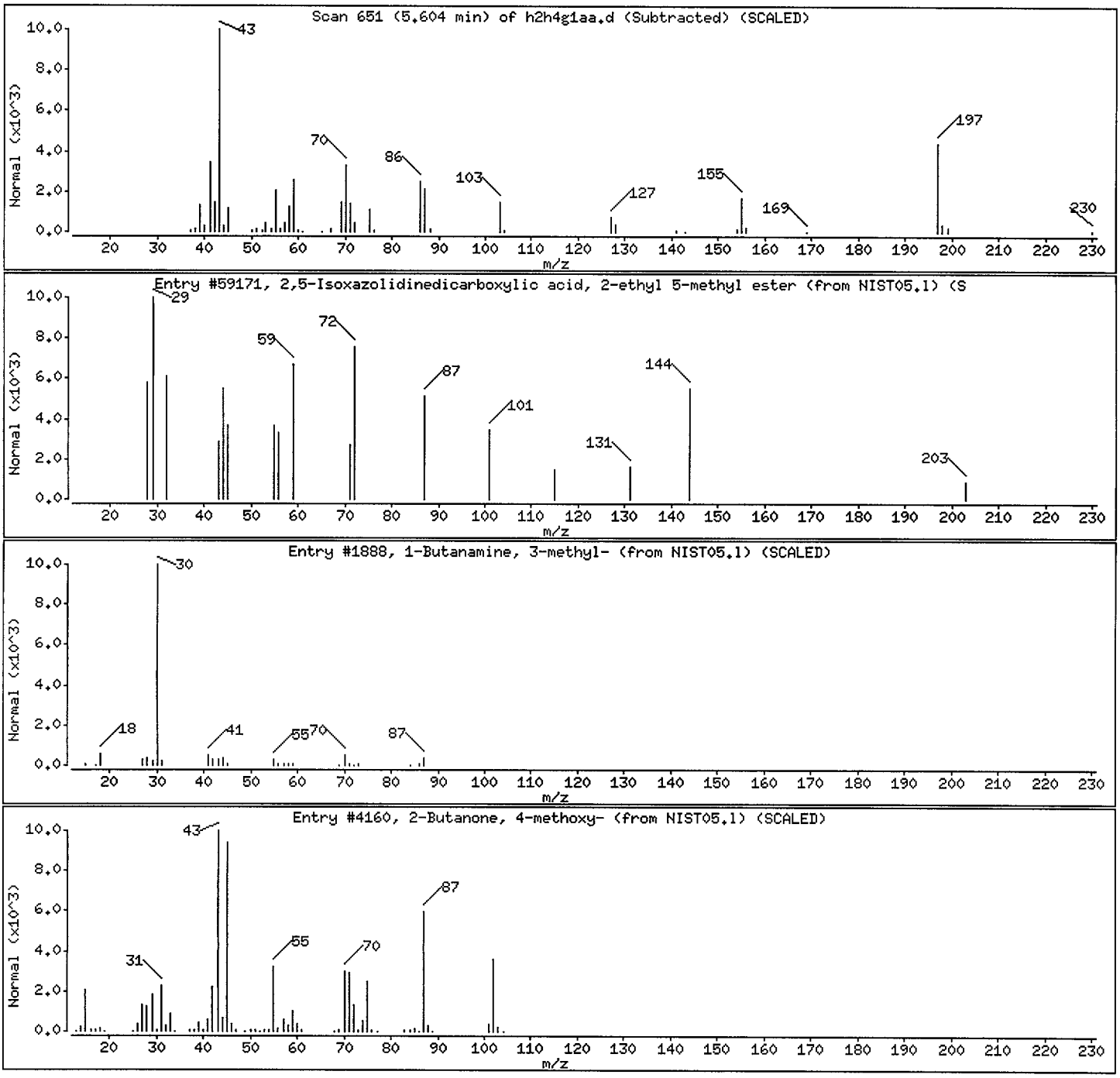
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,5-Isoxazolidinedicarboxylic acid, 2-et	15166-62-8	NIST05.1	59171	11	C8H13NO5	203
1-Butanamine, 3-methyl-	107-85-7	NIST05.1	1888	9	C5H13N	87
2-Butanone, 4-methoxy-	6975-85-5	NIST05.1	4160	9	C5H10O2	102



Data File: /var/chem/gcms/md.i/D041806.b/h2h4g1aa.d

Date : 18-APR-2006 21:57

Client ID: G-3075-R3-SCRUBBER

Instrument: md.i

Sample Info: H2H4G1AA,,0,,,,

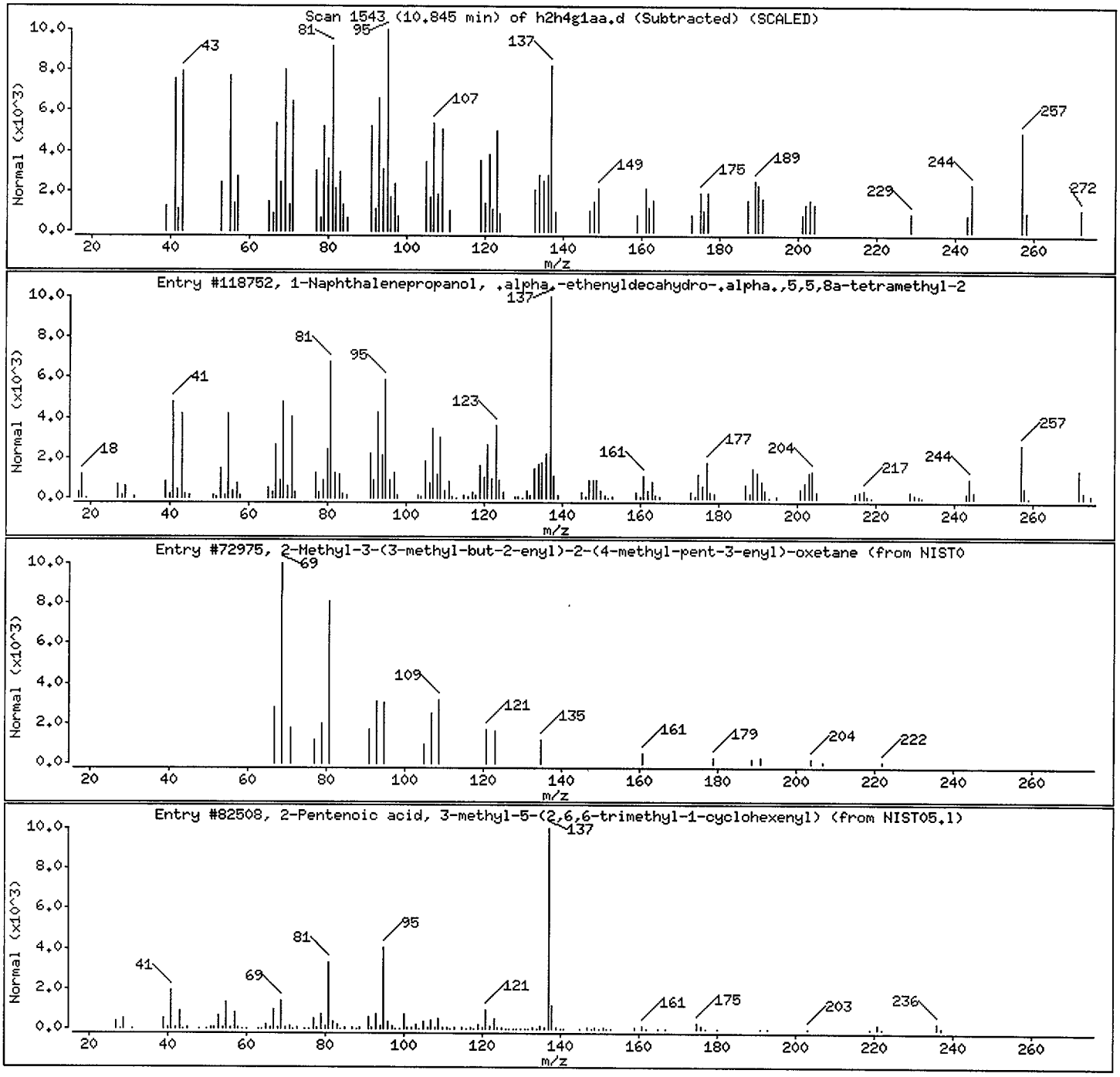
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Naphthalenepropanol, .alpha.-ethenylde	1438-62-6	NIST05.1	118752	46	C20H340	290
2-Methyl-3-(3-methyl-but-2-enyl)-2-(4-me	1000144-10-2	NIST05.1	72975	43	C15H260	222
2-Pentenoic acid, 3-methyl-5-(2,6,6-trim	1000196-81-2	NIST05.1	82508	38	C15H2402	236



STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	62	(57 - 120)
2-Fluorobiphenyl	74	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	88	(33 - 142)

STL Knoxville - ACS

G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-012 **Work Order #:** H2H4H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		140 NJ	M	3.9002	ug/L
Unknown		56 NJ	M	4.1118	ug/L
Unknown		22 NJ	M	5.6042	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	4.8 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Lab Smp Id: H2H4H1AA Client Smp ID: G-3079-R3-POTW DISC
Inj Date : 18-APR-2006 22:20
Operator : 60841 Inst ID: md.i
Smp Info : H2H4H1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	920.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

4/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	59264	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	185693	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	131927	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	232754	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	248025	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	224538	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	130181	31.4112	34.1
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	190292	38.0643	41.4
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	130425	31.1589	33.9
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	323160	37.1564	40.4
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	63206	42.8258	46.5
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	532453	44.1370	48.0
21 Benzyl alcohol	108	4.112	4.323	(0.989)	3020	1.15269	~~1.25~~
23 2-Methylphenol	108	4.112	4.476	(0.989)	3020	0.80467	~~0.875~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Report Date: 19-Apr-2006 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
24 2,2'-Oxybis(1-Chloropropane)	45	4.171	4.500	(1.003)	15034	2.37252	~~2.58~~
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	3906	1.50828	~~1.64~~
84 Benzidine	184	11.204	11.016	(1.129)	5670	0.59437	~~0.646~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4h1aa.d
Lab Smp Id: H2H4H1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-3079-R3-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	59264	-4.30
2 Naphthalene-d8	196946	98473	393892	185693	-5.71
3 Acenaphthene-d10	140395	70198	280790	131927	-6.03
4 Phenanthrene-d10	245474	122737	490948	232754	-5.18
5 Chrysene-d12	253631	126816	507262	248025	-2.21
6 Perylene-d12	225613	112806	451226	224538	-0.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

RECOVERY REPORT

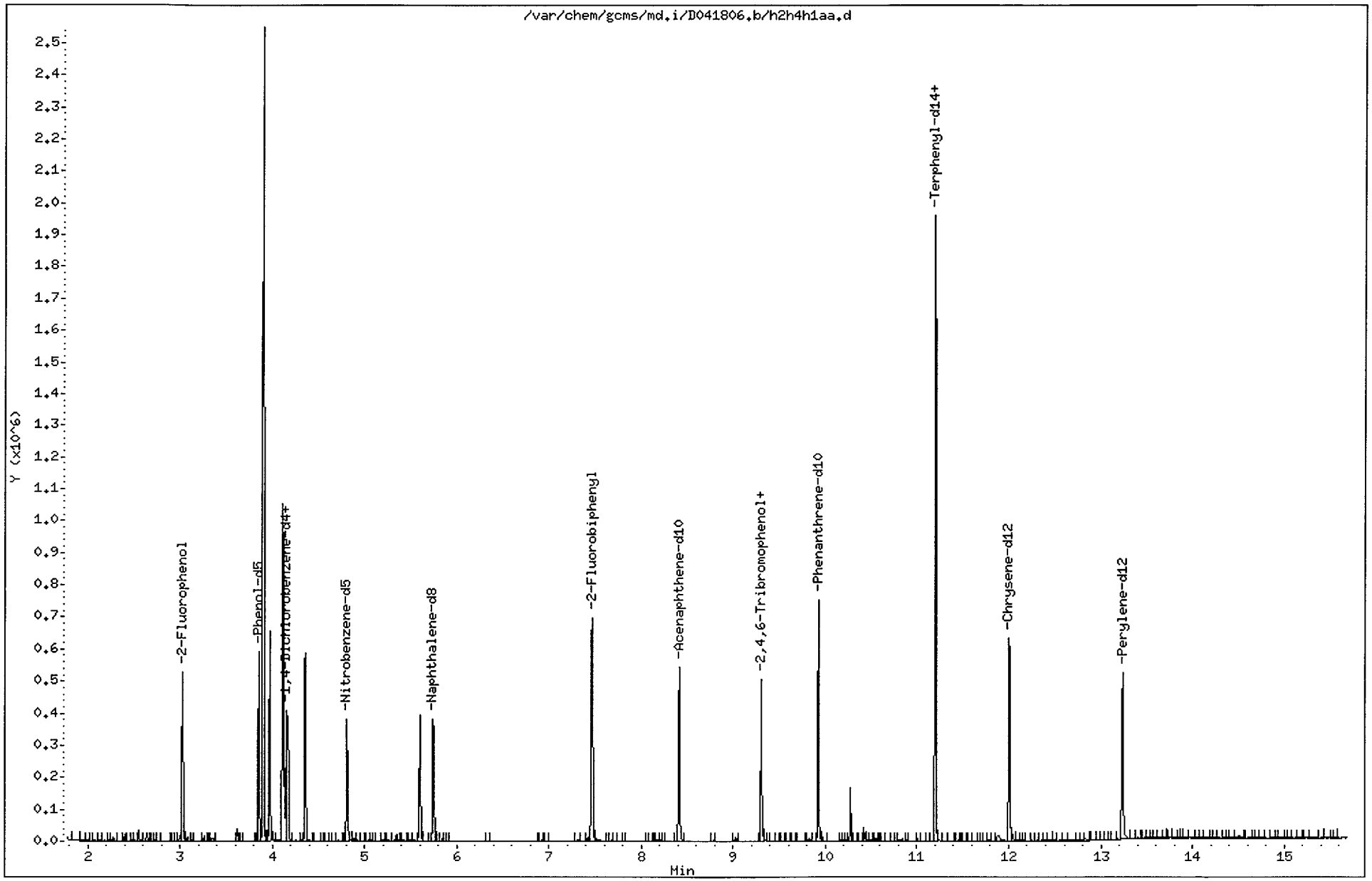
Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H4H1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-3079-R3-POTW DISC
Operator: 60841
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	81.5	34.1	41.88	36-98
$ 8 Phenol-d5	81.5	41.4	50.75	49-109
$ 9 Nitrobenzene-d5	54.3	33.9	62.32	57-120
$ 10 2-Fluorobiphenyl	54.3	40.4	74.31	56-118
$ 11 2,4,6-Tribromophen	81.5	46.5	57.10	55-134
$ 12 Terphenyl-d14	54.3	48.0	88.27	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Date : 18-APR-2006 22:20
Client ID: G-3079-R3-POTW DISC
Sample Info: H2H4H1AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

Client ID: G-3079-R3-POTW DISC

Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0

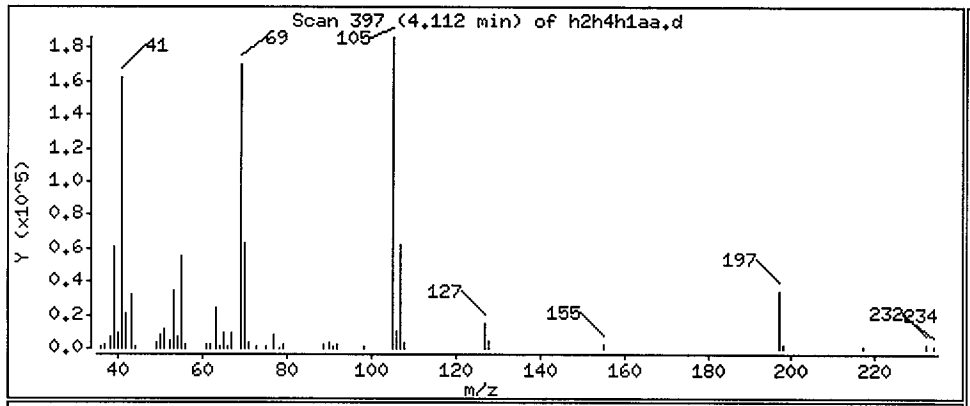
Operator: 60841

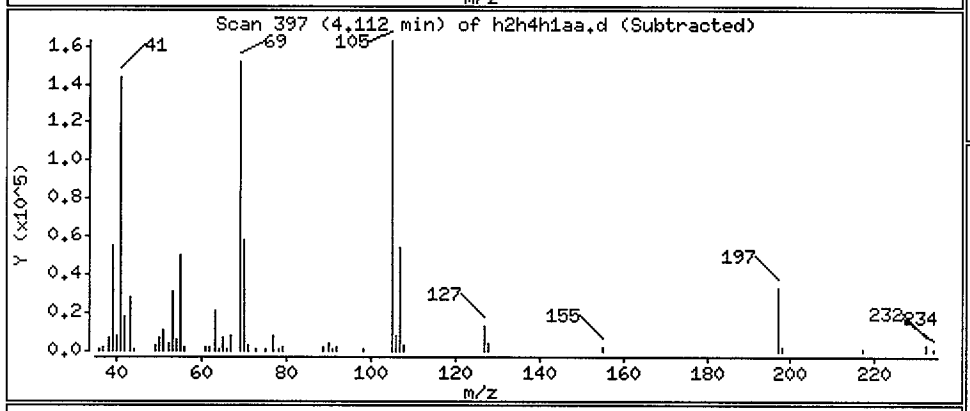
Column phase: ZB-5

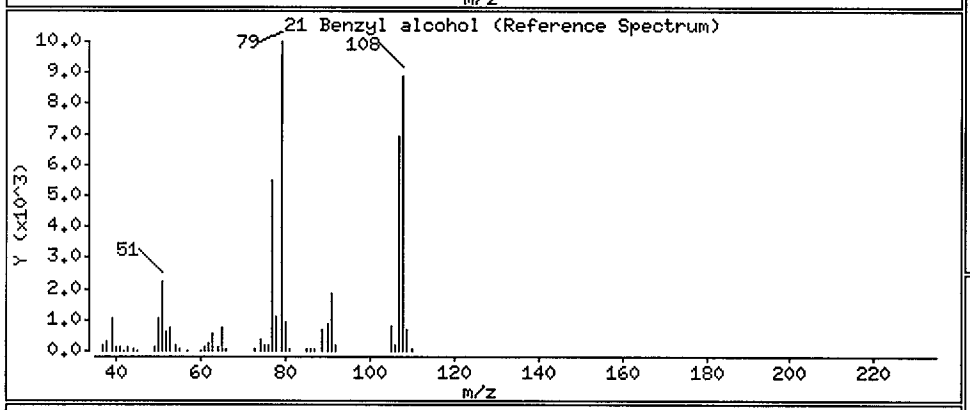
Column diameter: 0.25

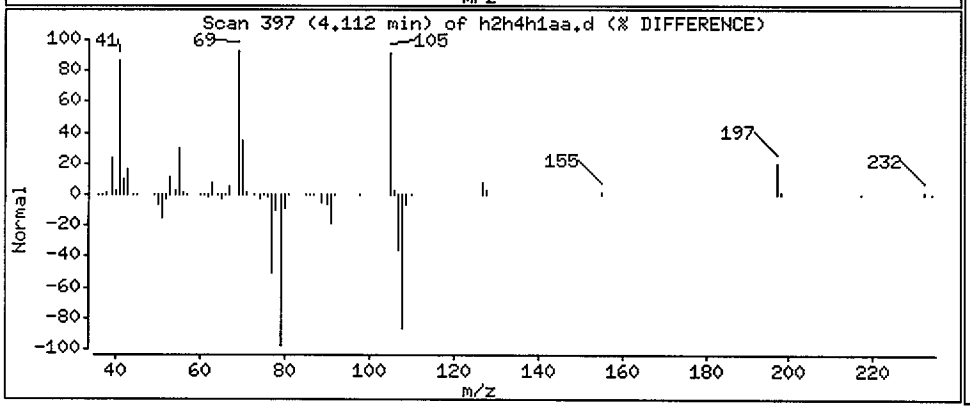
21 Benzyl alcohol

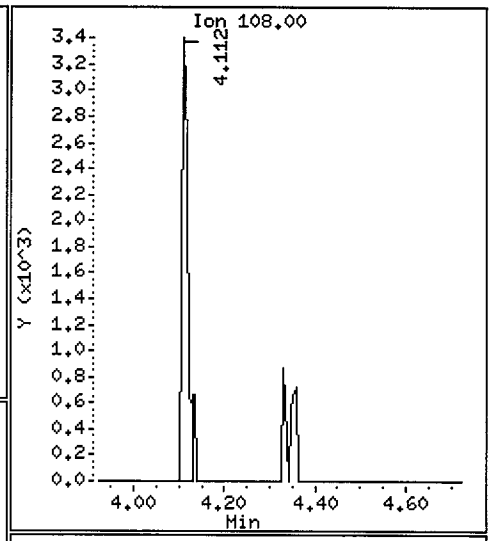
Concentration: 1.25 ug/L

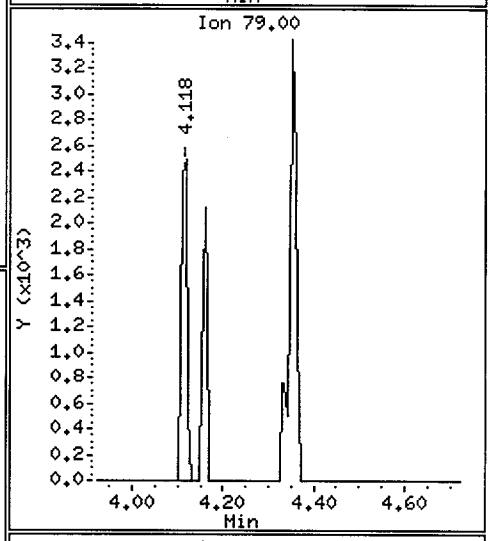


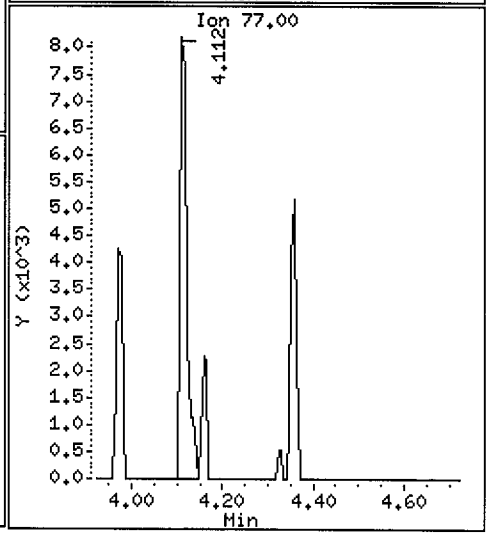












Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

Client ID: G-3079-R3-POTW DISC

Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0

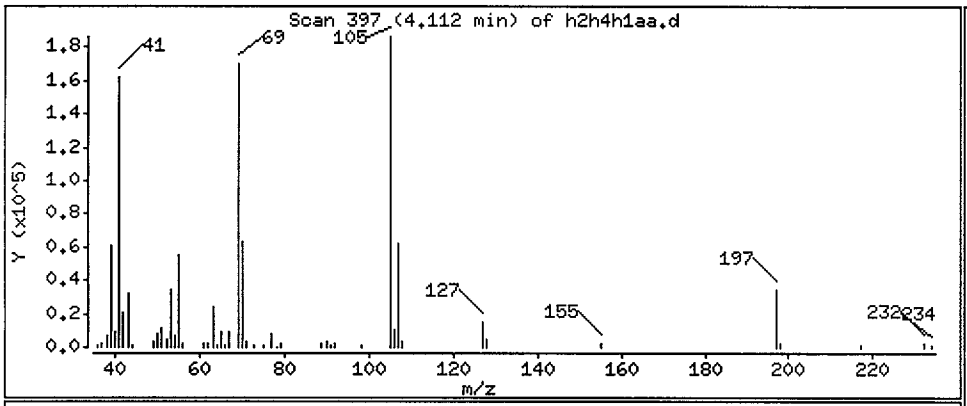
Operator: 60841

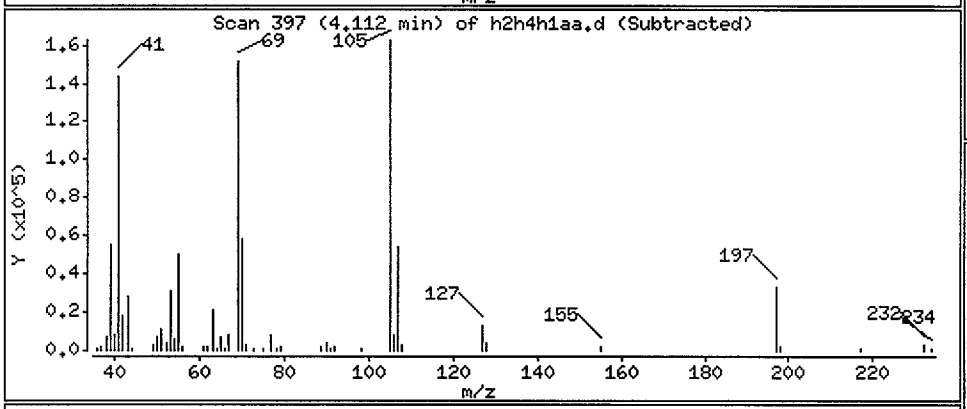
Column phase: ZB-5

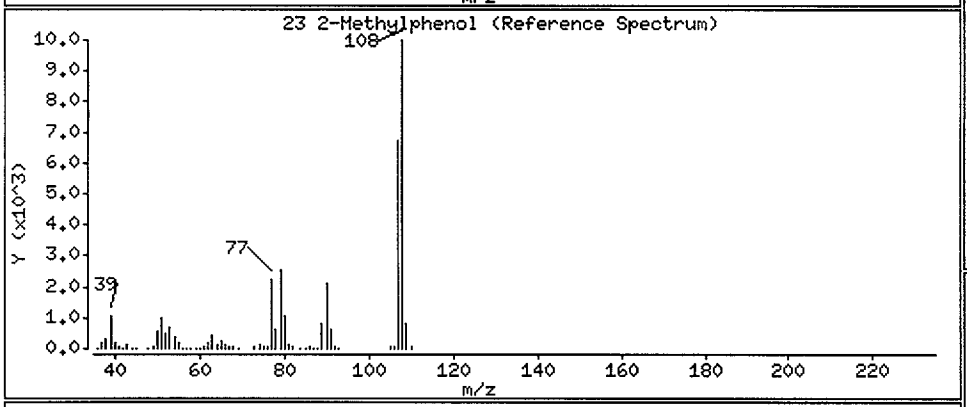
Column diameter: 0.25

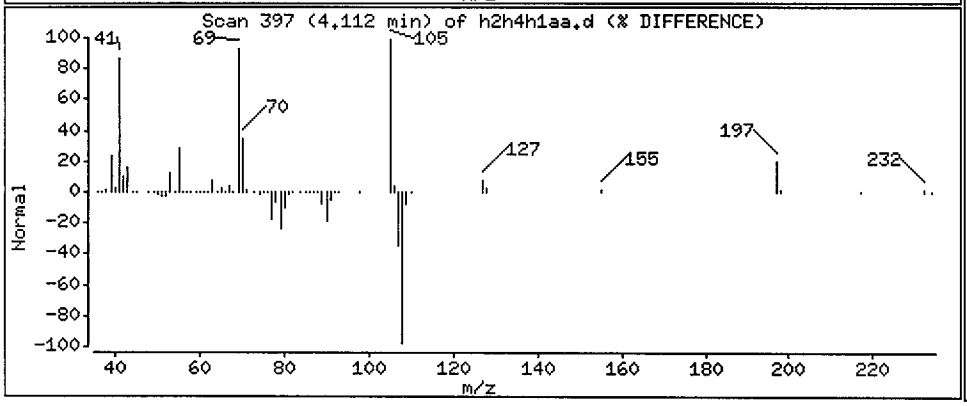
23 2-Methylphenol

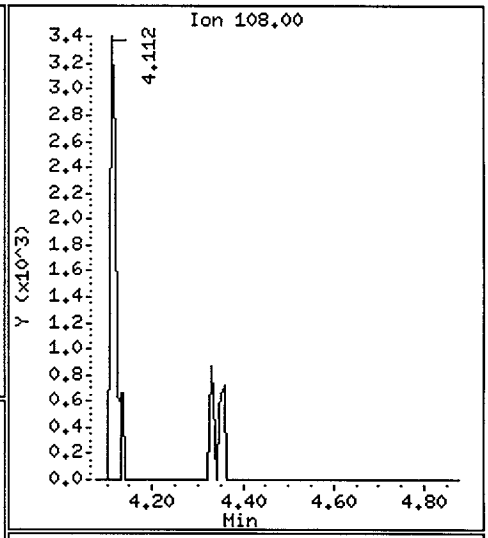
Concentration: 0.875 ug/L

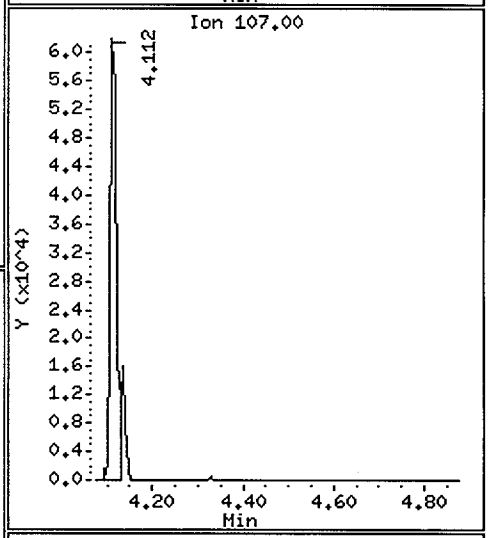


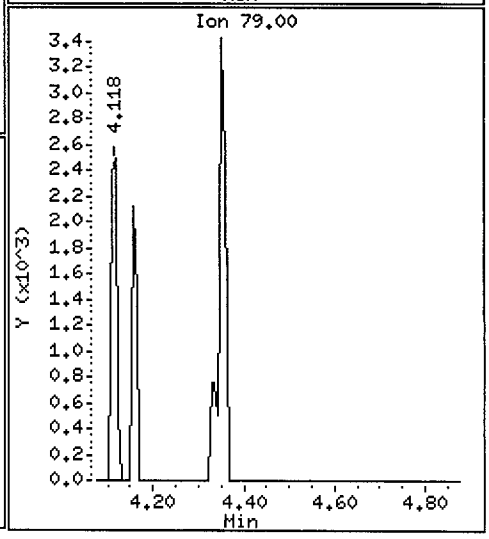












Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

Client ID: G-3079-R3-POTW DISC

Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0

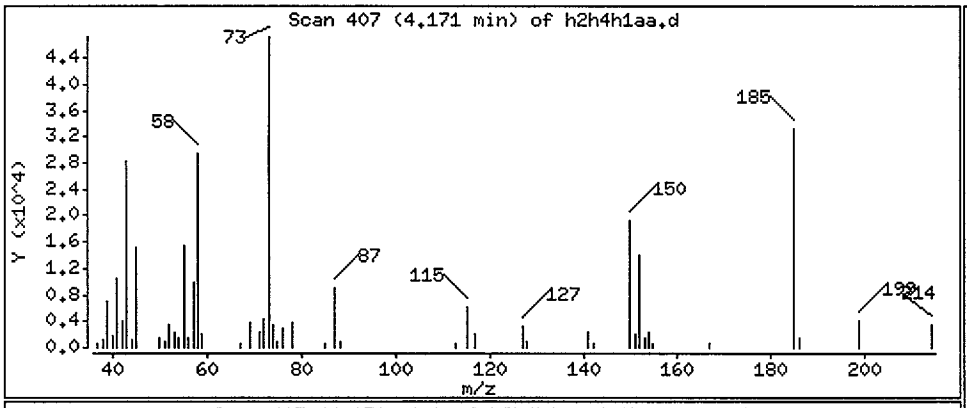
Operator: 60841

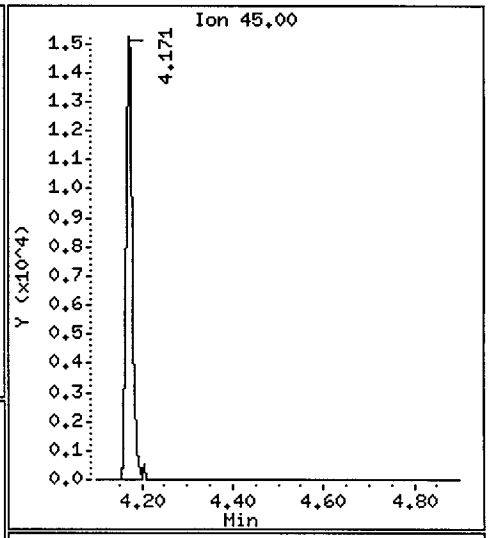
Column phase: ZB-5

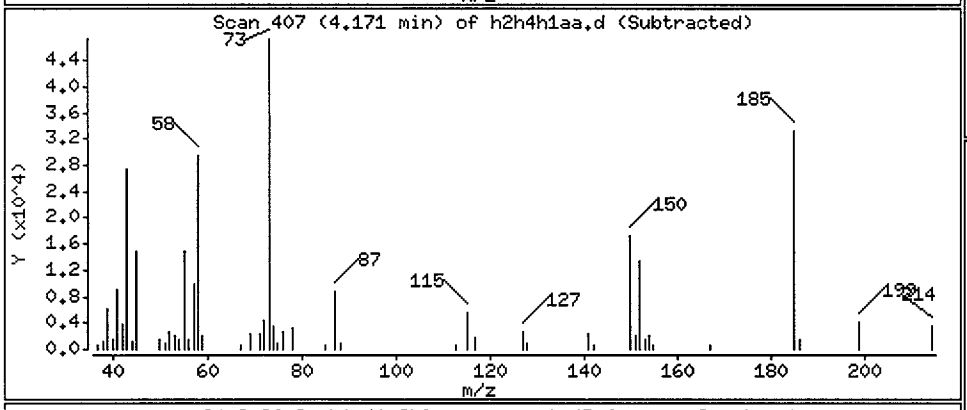
Column diameter: 0.25

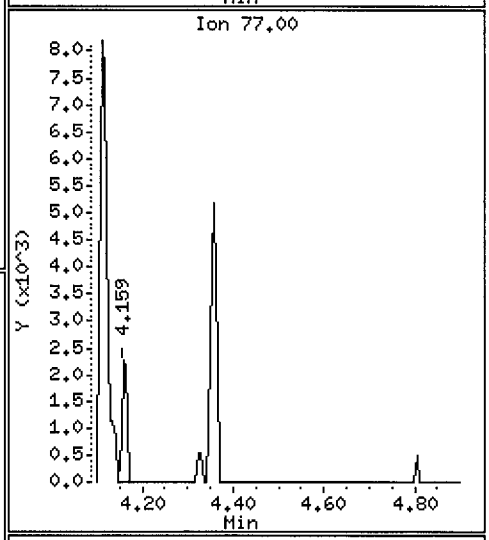
24 2,2'-Oxybis(1-Chloropropane)

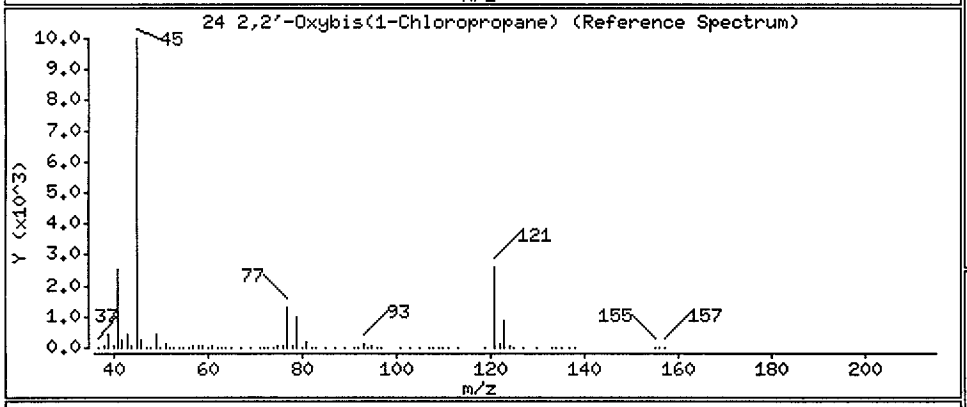
Concentration: 2.58 ug/L

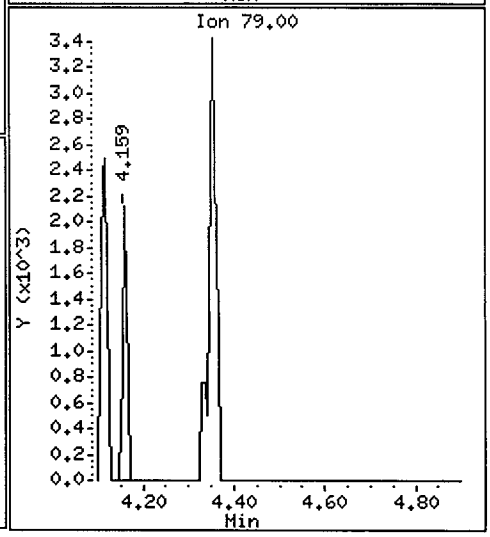


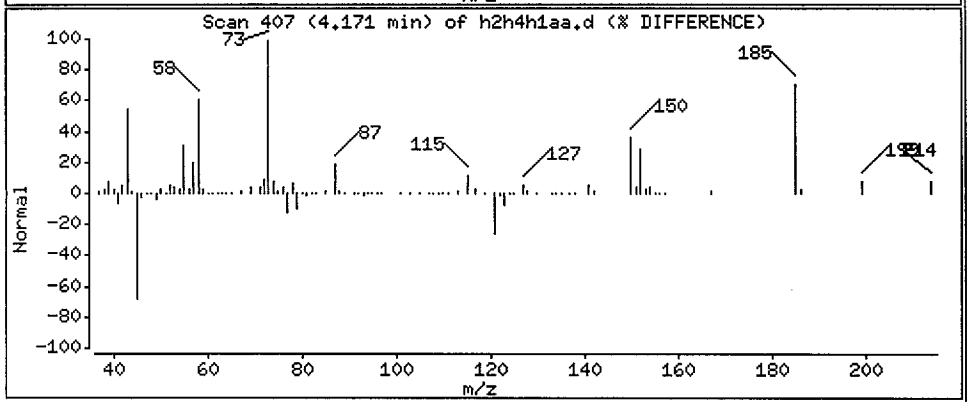












Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

Client ID: G-3079-R3-POTW DISC

Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0

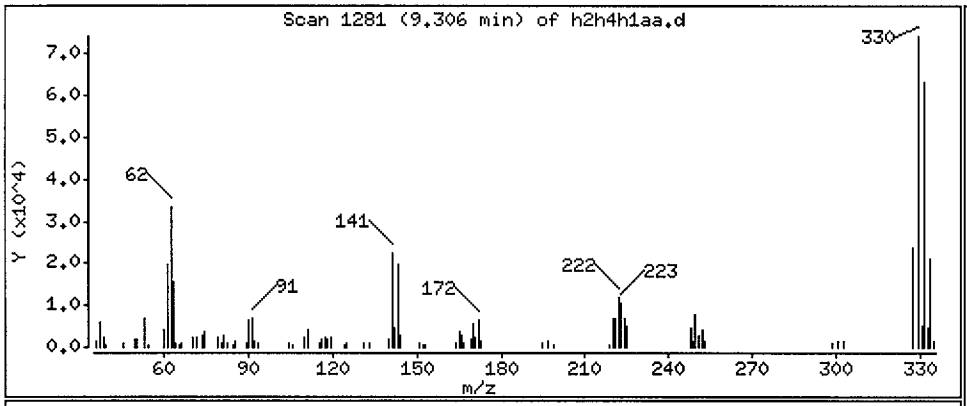
Operator: 60841

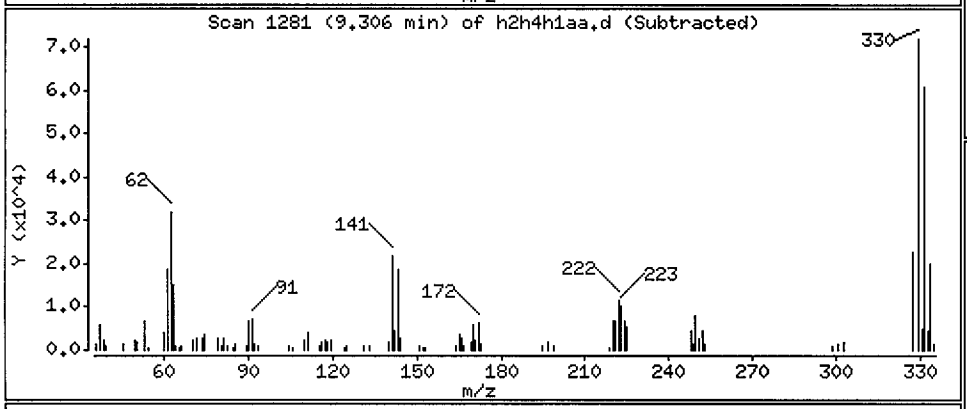
Column phase: ZB-5

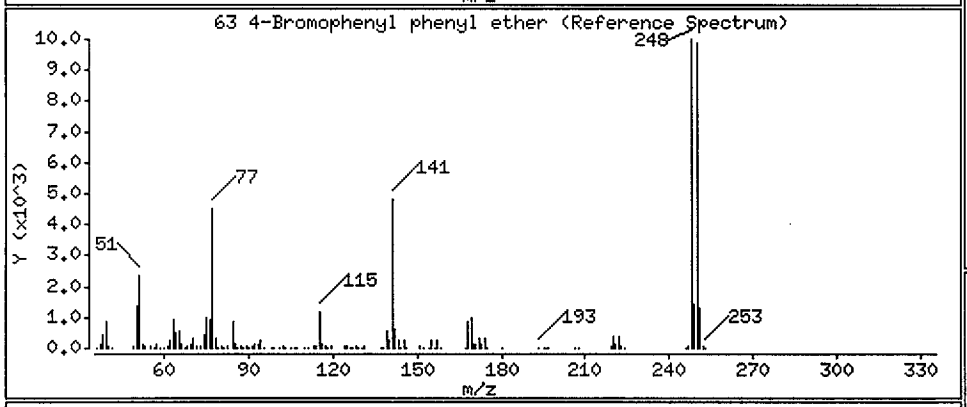
Column diameter: 0.25

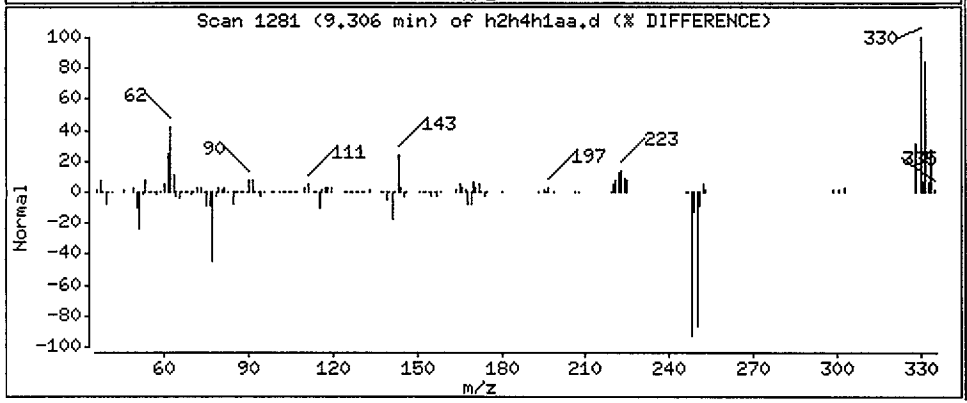
63 4-Bromophenyl phenyl ether

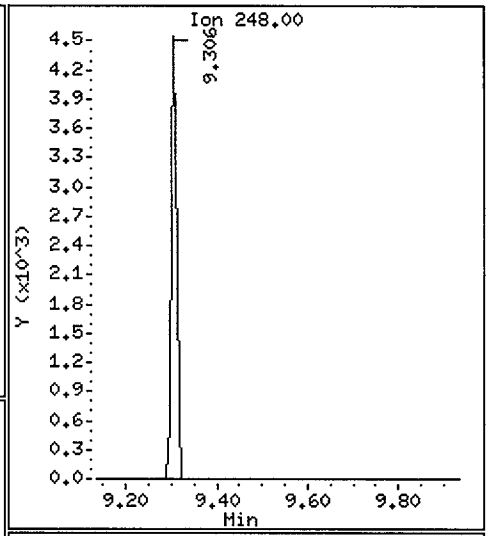
Concentration: 1.64 ug/L

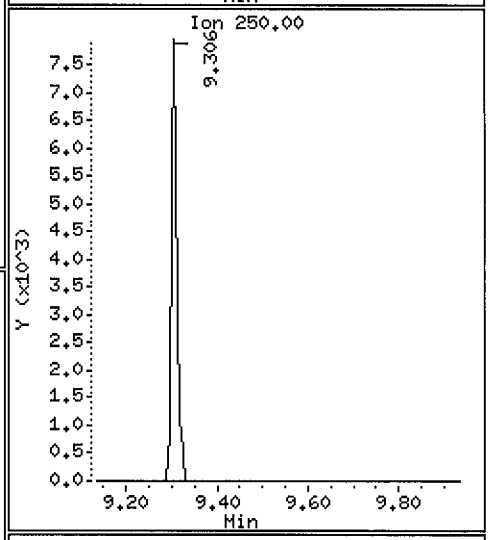


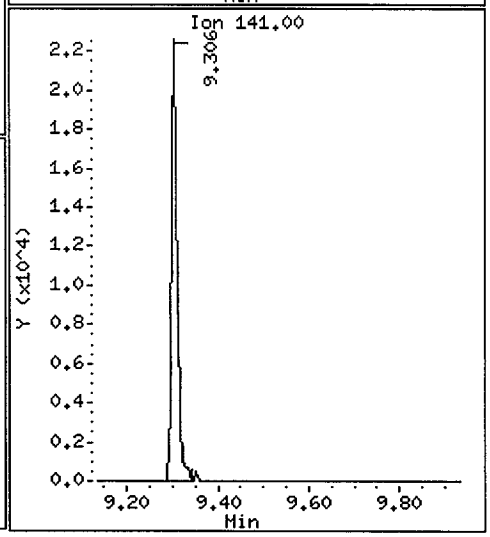












Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

Client ID: G-3079-R3-POTW DISC

Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0

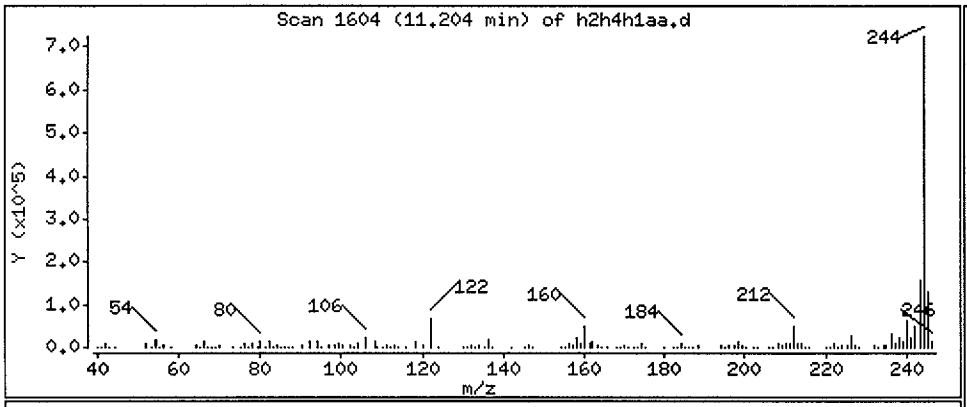
Operator: 60841

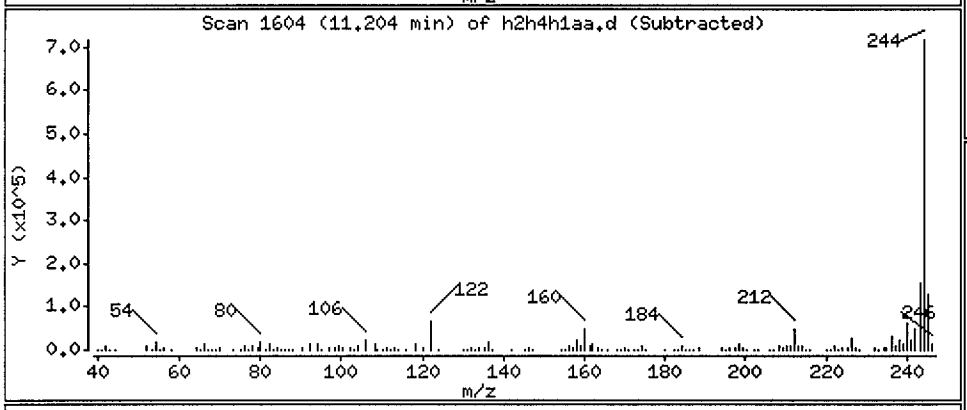
Column phase: ZB-5

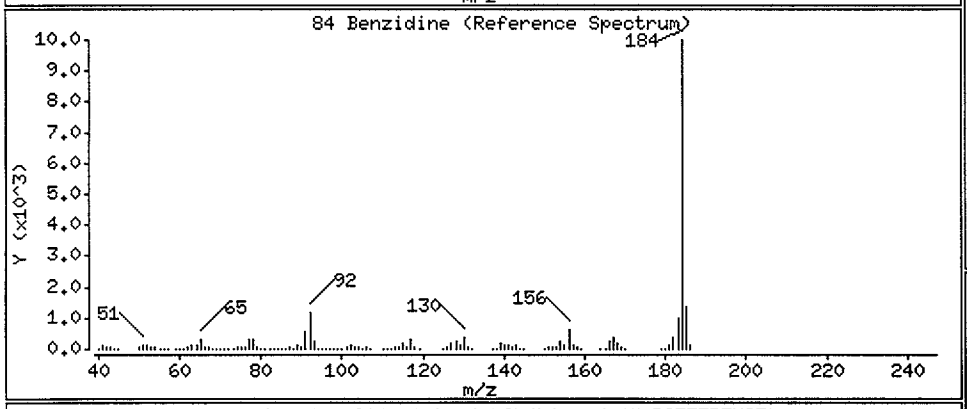
Column diameter: 0.25

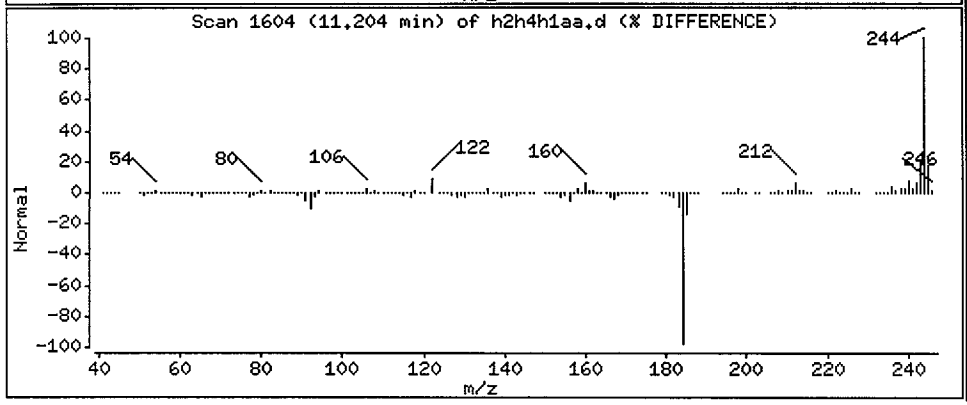
84 Benzidine

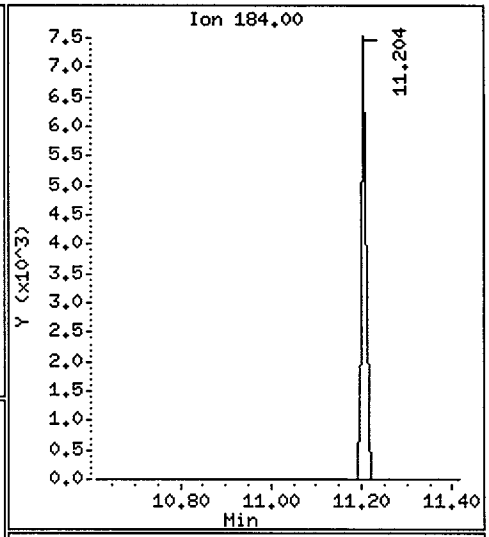
Concentration: 0.646 ug/L

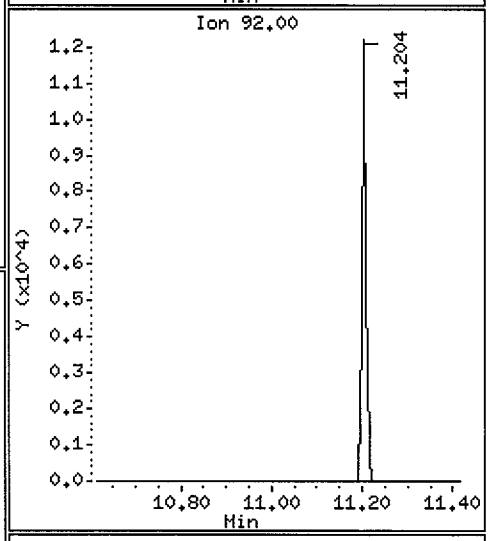


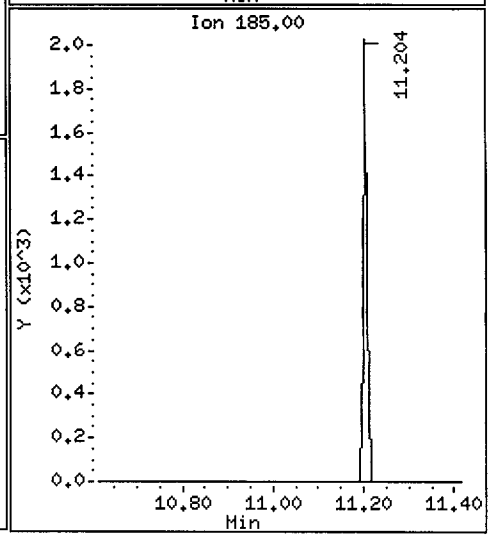












Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Report Date: 19-Apr-2006 15:56

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Lab Smp Id: H2H4H1AA Client Smp ID: G-3079-R3-POTW DISC
Inj Date : 18-APR-2006 22:20
Operator : 60841 Inst ID: md.i
Smp Info : H2H4H1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	920.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	406574	20.000
* 2 Naphthalene-d8	5.745	382282	20.000
* 4 Phenanthrene-d10	9.923	752642	20.000

	CONCENTRATIONS				QUANT			
	RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Thiocyanic acid, ethyl ester					CAS #: 542-90-5			
	3.900	2549699	125.423613	136	64	NIST05.1	1822	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d
Report Date: 19-Apr-2006 15:56

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
1H-Benzimidazole, 2-methyl-					CAS #: 615-15-6		
3.971	652379	32.0915258	34.9	22	NIST05.1	14039	1
1-Pentene, 2,3-dimethyl-					CAS #: 3404-72-6		
4.112	1054145	51.8550129	56.4	43	NIST05.1	3291	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	584989	28.7765081	31.3	96	NIST05.1	23150	1
Morpholine					CAS #: 110-91-8		
5.604	392066	20.5118734	22.3	9	NIST05.1	1832	2
N,N-Diethyl-p-nitroaniline					CAS #: 2216-15-1		
10.269	165299	4.39250002	4.77	98	NIST05.1	52341	4

Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

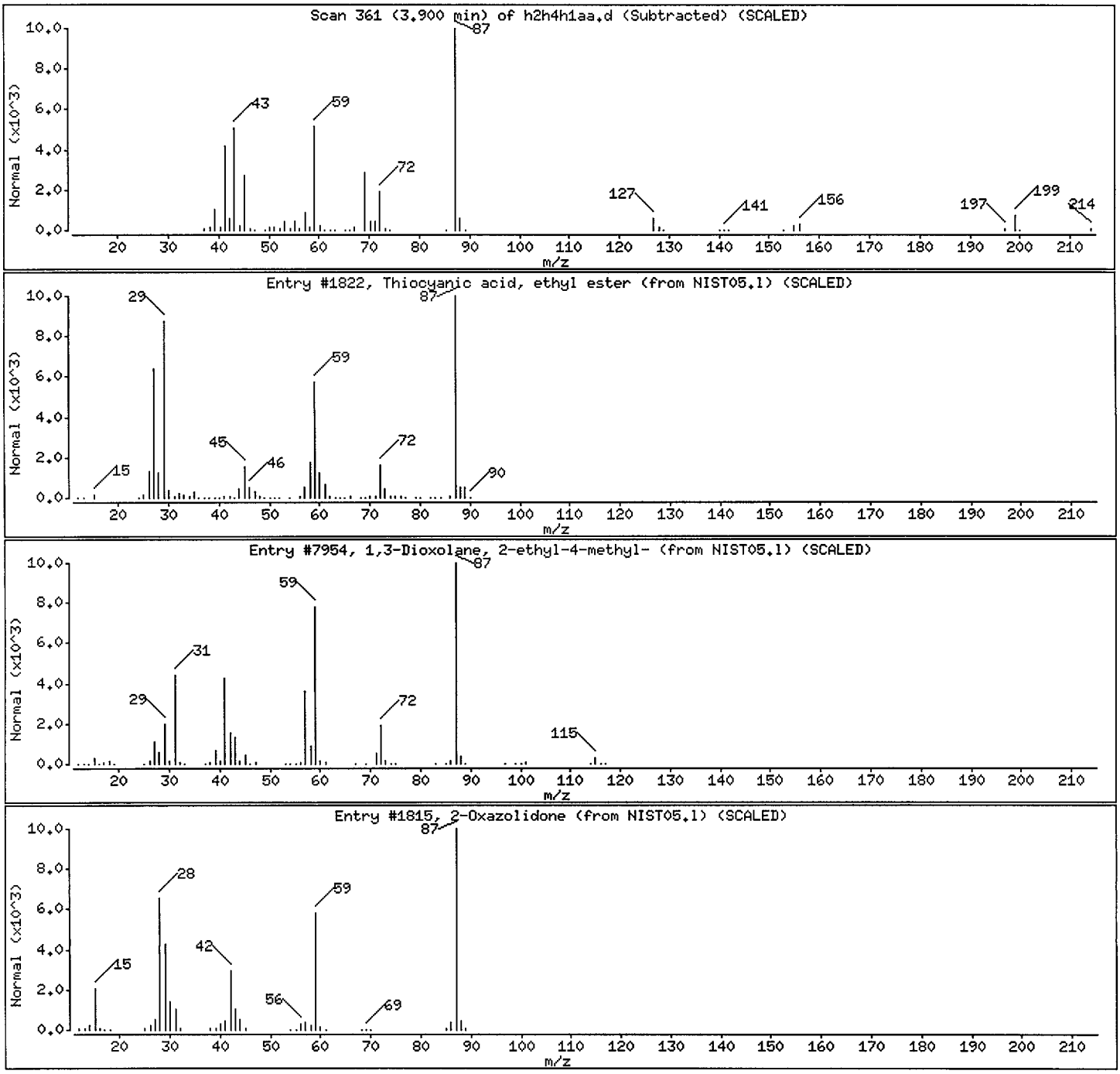
Client ID: G-3079-R3-POTW DISC | Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thiocyanic acid, ethyl ester	542-90-5	NIST05.1	1822	64	C3H5NS	87
1,3-Dioxolane, 2-ethyl-4-methyl-	4359-46-0	NIST05.1	7954	50	C6H12O2	116
2-Oxazolidone	497-25-6	NIST05.1	1815	50	C3H5NO2	87



Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

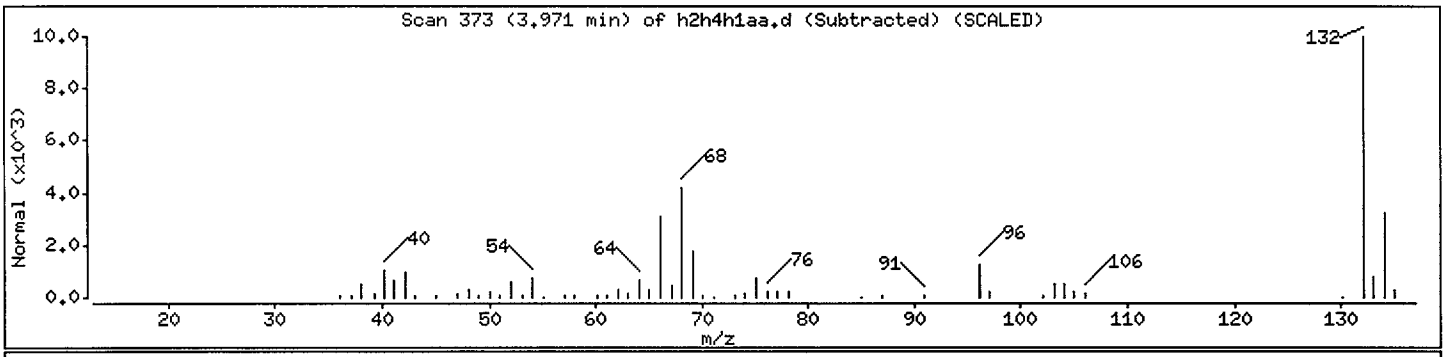
Client ID: G-3079-R3-POTW DISC | Instrument: md.i

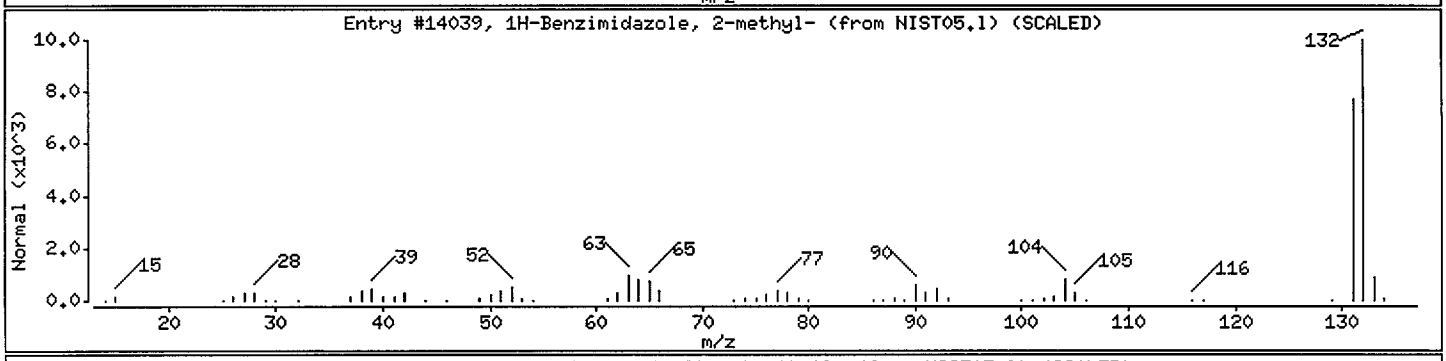
Sample Info: H2H4H1AA,,0,,,,

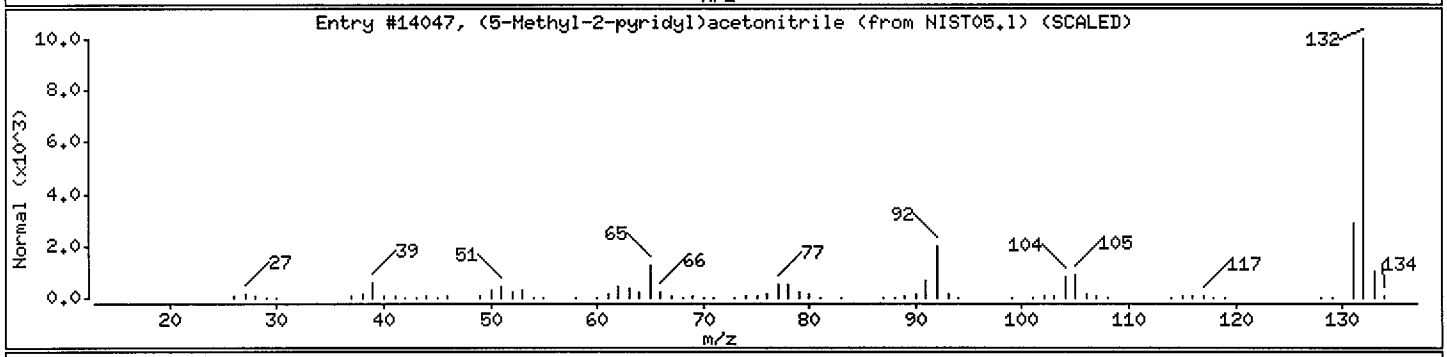
Volume Injected (uL): 1.0 | Operator: 60841

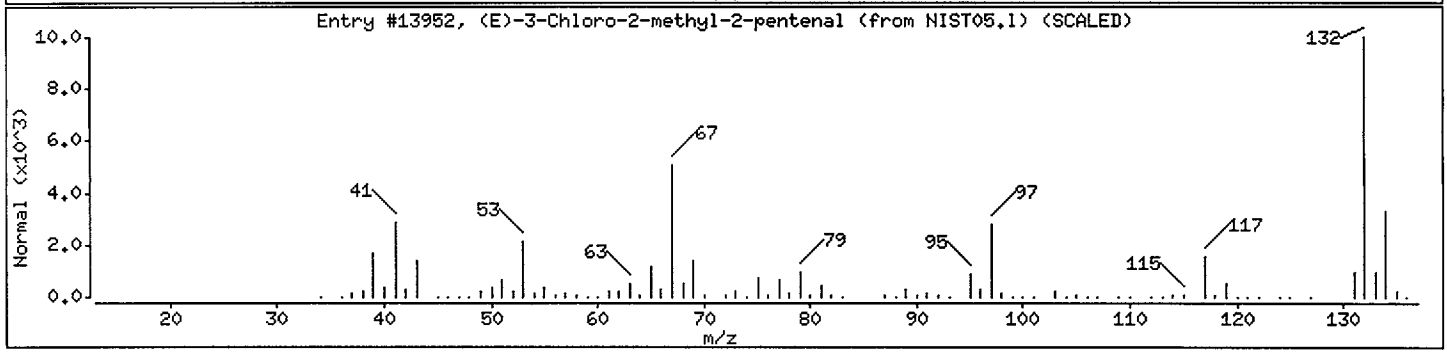
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Benzimidazole, 2-methyl-	615-15-6	NIST05.l	14039	22	C8H8N2	132
(5-Methyl-2-pyridyl)acetonitrile	1000241-93-9	NIST05.l	14047	22	C8H8N2	132
(E)-3-Chloro-2-methyl-2-pentenal	31357-76-3	NIST05.l	13952	17	C6H9ClO	132









Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

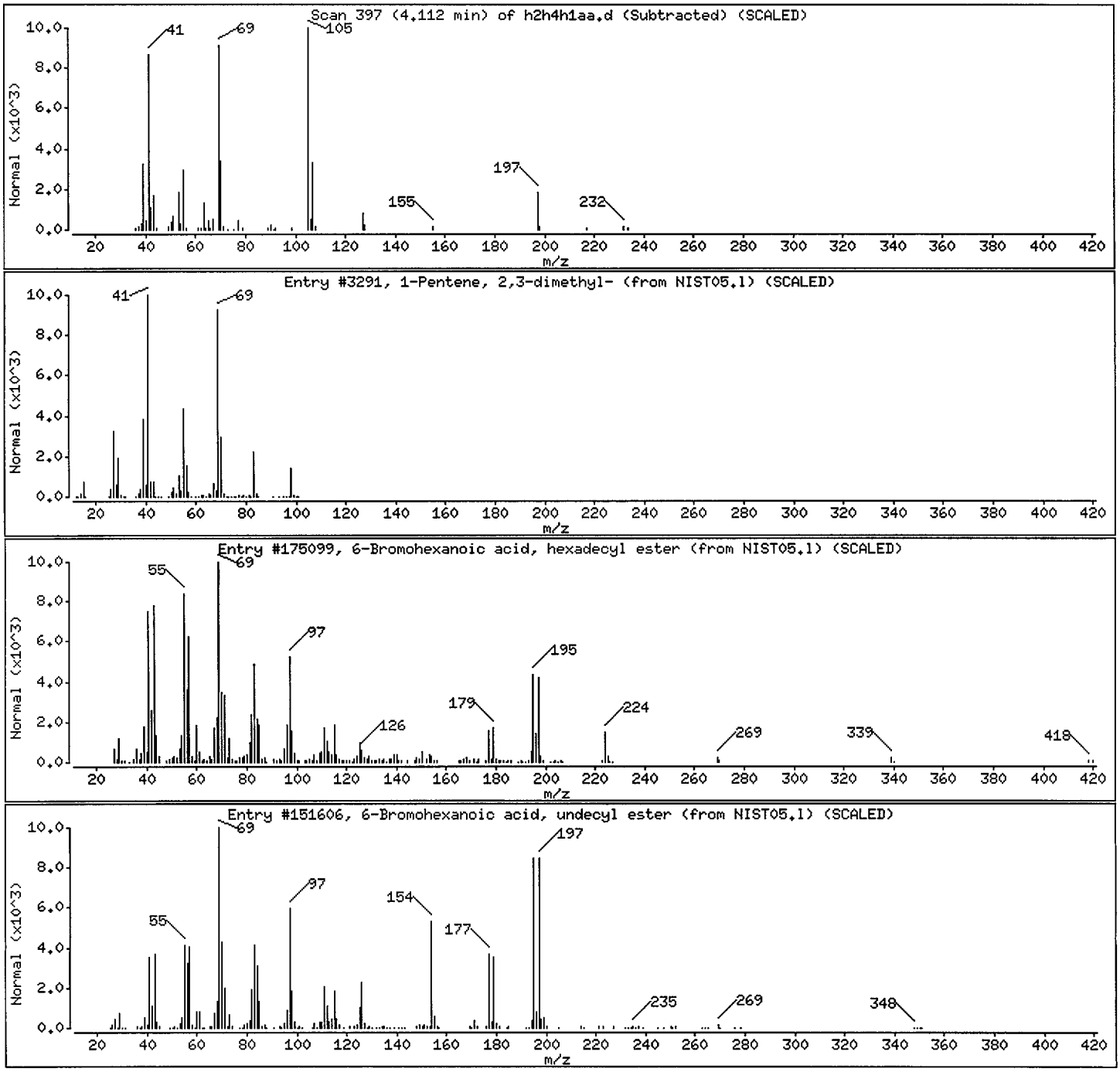
Client ID: G-3079-R3-POTW DISC | Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Pentene, 2,3-dimethyl-	3404-72-6	NIST05.l	3291	43	C7H14	98
6-Bromohexanoic acid, hexadecyl ester	1000281-92-0	NIST05.l	175099	38	C22H43BrO2	418
6-Bromohexanoic acid, undecyl ester	1000282-90-4	NIST05.l	151606	37	C17H33BrO2	348



Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

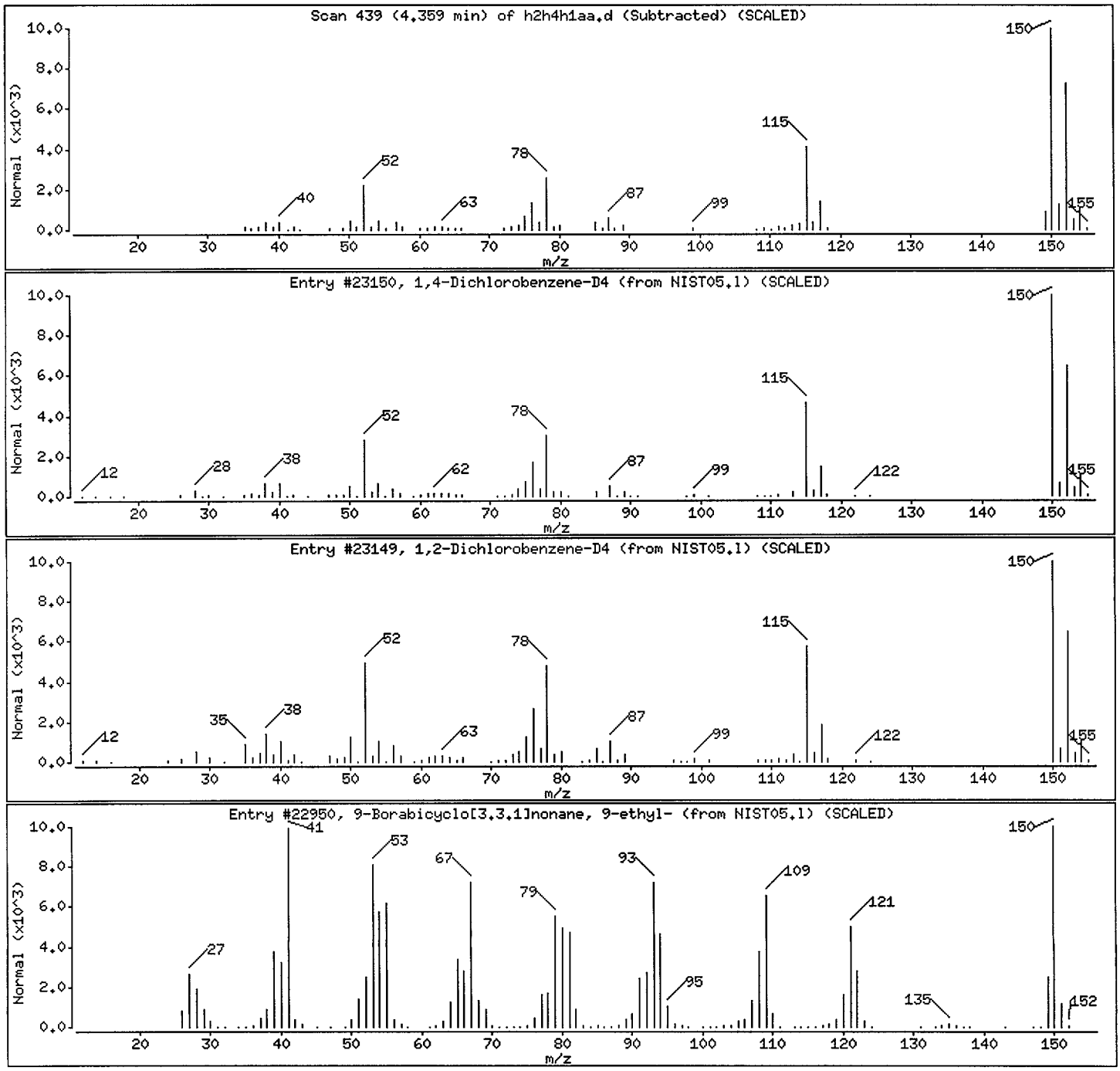
Client ID: G-3079-R3-POTW DISC | Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	96	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	43	C10H19B	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

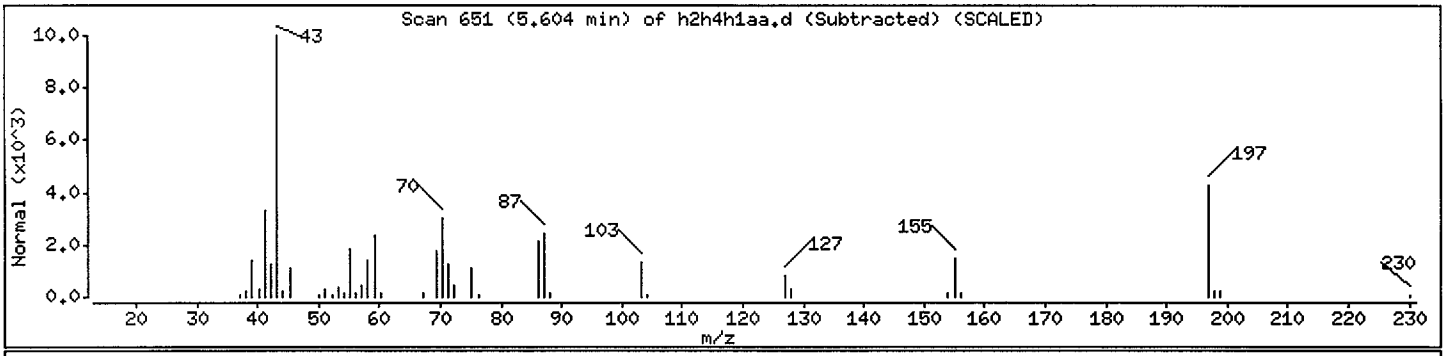
Client ID: G-3079-R3-POTW DISC | Instrument: md.i

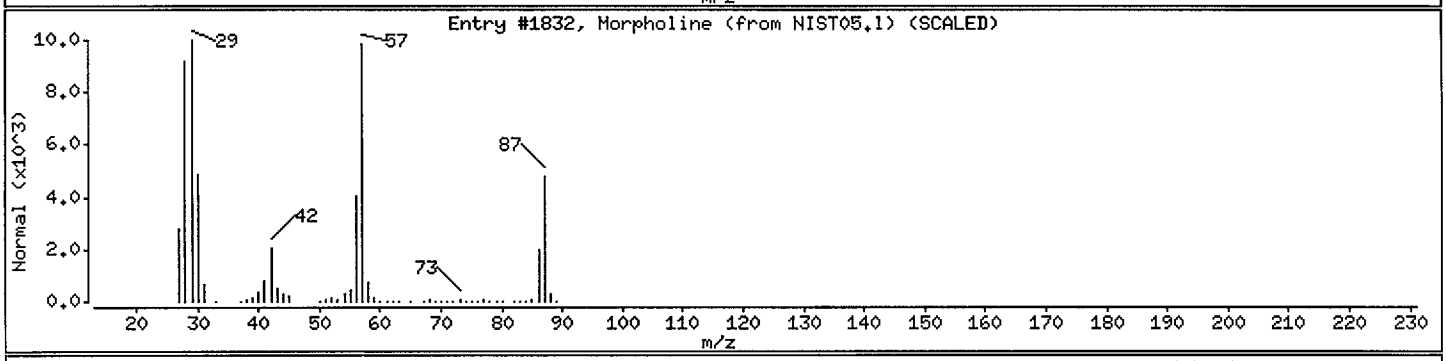
Sample Info: H2H4H1AA,,0,,,,

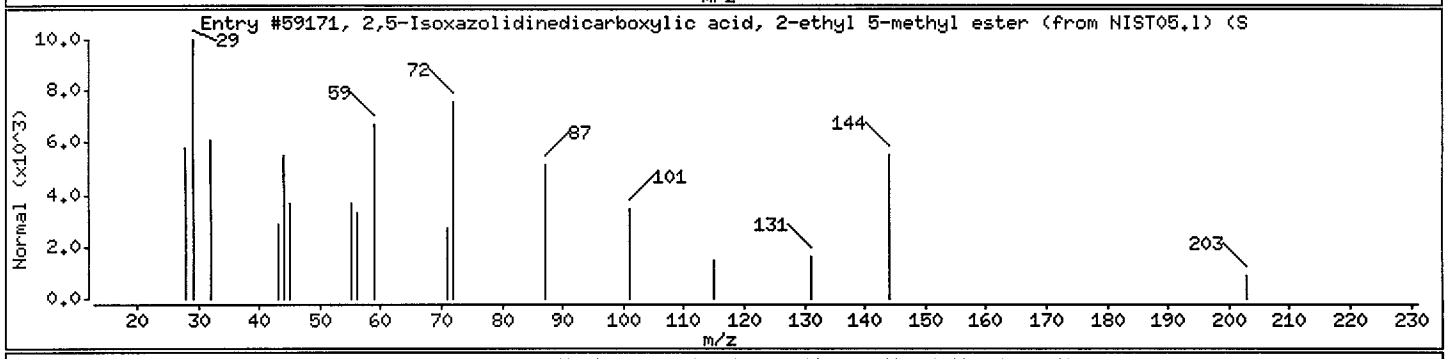
Volume Injected (uL): 1.0 | Operator: 60841

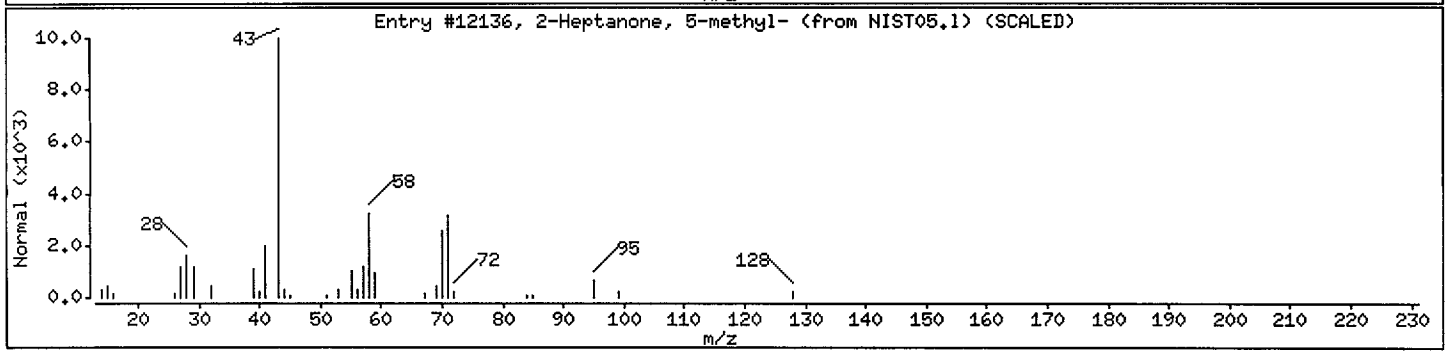
Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Morpholine	110-91-8	NIST05.l	1832	9	C4H9NO	87
2,5-Isoxazolidinedicarboxylic acid, 2-et	15166-62-8	NIST05.l	59171	9	C8H13NO5	203
2-Heptanone, 5-methyl-	18217-12-4	NIST05.l	12136	9	C8H16O	128









Data File: /var/chem/gcms/md.i/D041806.b/h2h4h1aa.d

Date : 18-APR-2006 22:20

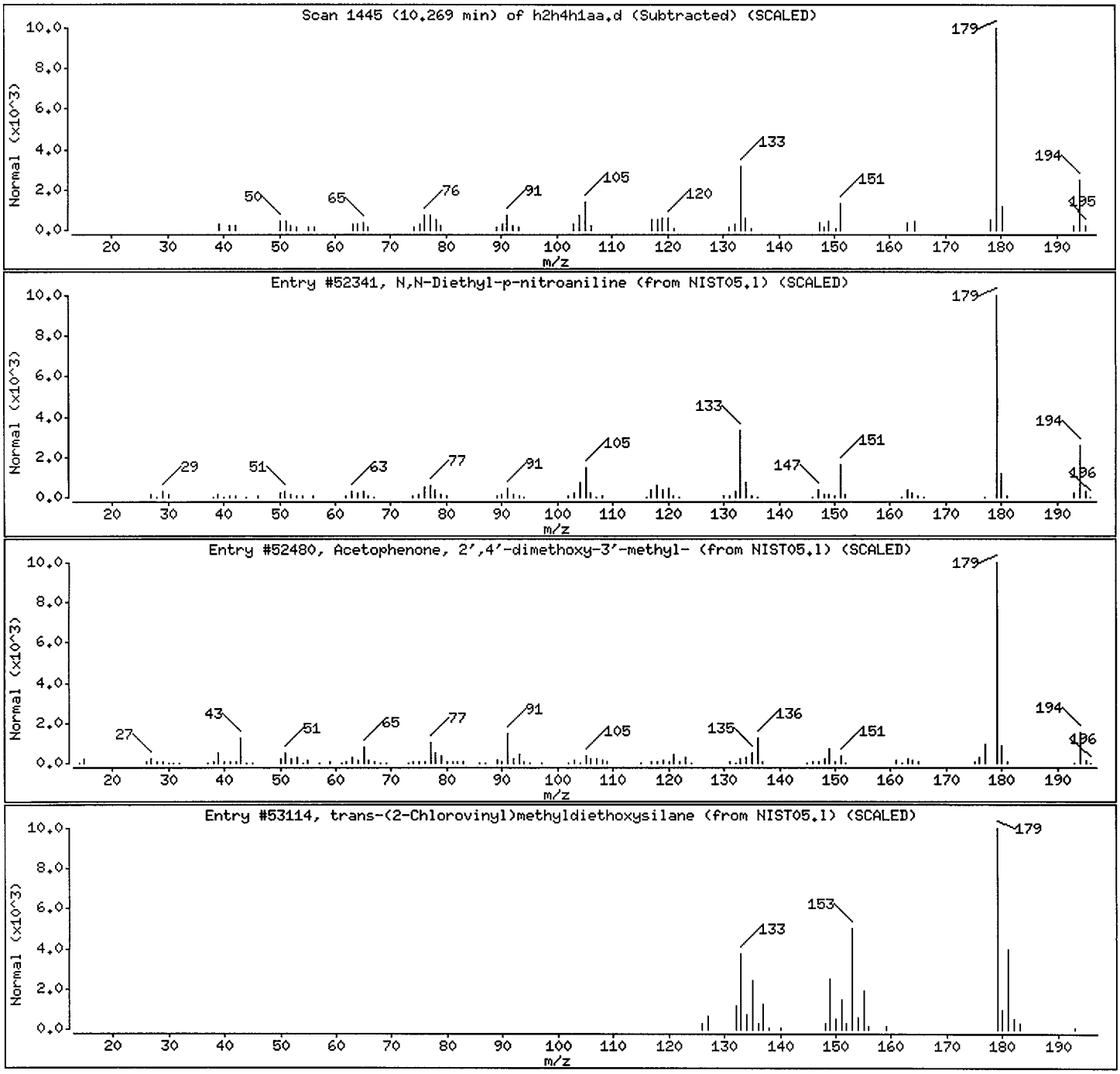
Client ID: G-3079-R3-POTW DISC | Instrument: md.i

Sample Info: H2H4H1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
N,N-Diethyl-p-nitroaniline	2216-15-1	NIST05.1	52341	98	C10H14N2O2	194
Acetophenone, 2',4'-dimethoxy-3'-methyl-	60512-80-3	NIST05.1	52480	53	C11H14O3	194
trans-(2-Chlorovinyl)methyldiethoxysilan	1000139-96-9	NIST05.1	53114	53	C7H15ClO2Si	194



STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.87 *	(36 - 98)
Phenol-d5	0.0	(49 - 109)
Nitrobenzene-d5	54 *	(57 - 120)
2-Fluorobiphenyl	66	(56 - 118)
2,4,6-Tribromophenol	43 *	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-013 **Work Order #:** H2H4J1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	2.2786	ug/L
Unknown		76 NJ	M	2.4725	ug/L
Unknown		30 NJ	M	3.0777	ug/L
Methane, tribromo-	75-25-2	6.1 NJ	M	3.1306	ug/L
Unknown		18 NJ	M	5.2986	ug/L
Unknown		4.5 NJ	M	6.3445	ug/L
Unknown		20 NJ	M	6.415	ug/L
Unknown		8.8 NJ	M	7.2493	ug/L
Unknown		5.7 NJ	M	7.5725	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	36 NJ	M	8.1601	ug/L
Unknown		28 NJ	M	8.6771	ug/L
Unknown		18 NJ	M	8.7829	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Lab Smp Id: H2H4J1AA Client Smp ID: G-3087-R3-MAKE-UP W
Inj Date : 18-APR-2006 22:44
Operator : 60841 Inst ID: md.i
Smp Info : H2H4J1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	960.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	70031	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	226793	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	164668	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	291057	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	301675	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	281155	20.0000	
$ 7 2-Fluorophenol	112	3.031	3.025	(0.729)	3195	0.65251	0.680(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	138892	27.1685	28.3(R)
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	359846	33.1481	34.5
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	59170	32.0607	33.4(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	631946	43.0684	44.9
46 2-Nitroaniline	65	8.113	7.831	(0.964)	1901	0.60341	~~0.628~~
50 3-Nitroaniline	138	8.160	8.413	(0.970)	11356	3.89686	~~4.06~~
51 Acenaphthene (ccc)	153	8.677	8.454	(1.031)	6697	0.71770	~~0.748~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Report Date: 19-Apr-2006 13:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
52 2,4-Dinitrophenol ##spcc##	184	8.677	8.536	(1.031)	594	12.0851	~~12.6~~
54 4-Nitrophenol ##spcc##	109	8.677	8.683	(1.031)	2438	1.34169	~~1.40~~
60 4,6-Dinitro-2-methylphenol	198	9.300	9.159	(0.937)	1053	0.57555	~~0.600~~
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	2621	0.80925	~~0.843~~
84 Benzidine	184	11.204	11.016	(1.129)	6337	0.53122	~~0.553~~
104 m-dinitrobenzene	76	8.154	8.160	(0.969)	5417	3.95067	~~4.12~~
105 pentachlorobenzene	250	8.783	8.683	(1.044)	3786	0.89104	~~0.928~~

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h4j1aa.d
Lab Smp Id: H2H4J1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-3087-R3-MAKE-UP W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	70031	13.09
2 Naphthalene-d8	196946	98473	393892	226793	15.15
3 Acenaphthene-d10	140395	70198	280790	164668	17.29
4 Phenanthrene-d10	245474	122737	490948	291057	18.57
5 Chrysene-d12	253631	126816	507262	301675	18.94
6 Perylene-d12	225613	112806	451226	281155	24.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Report Date: 19-Apr-2006 13:58

STL Knoxville

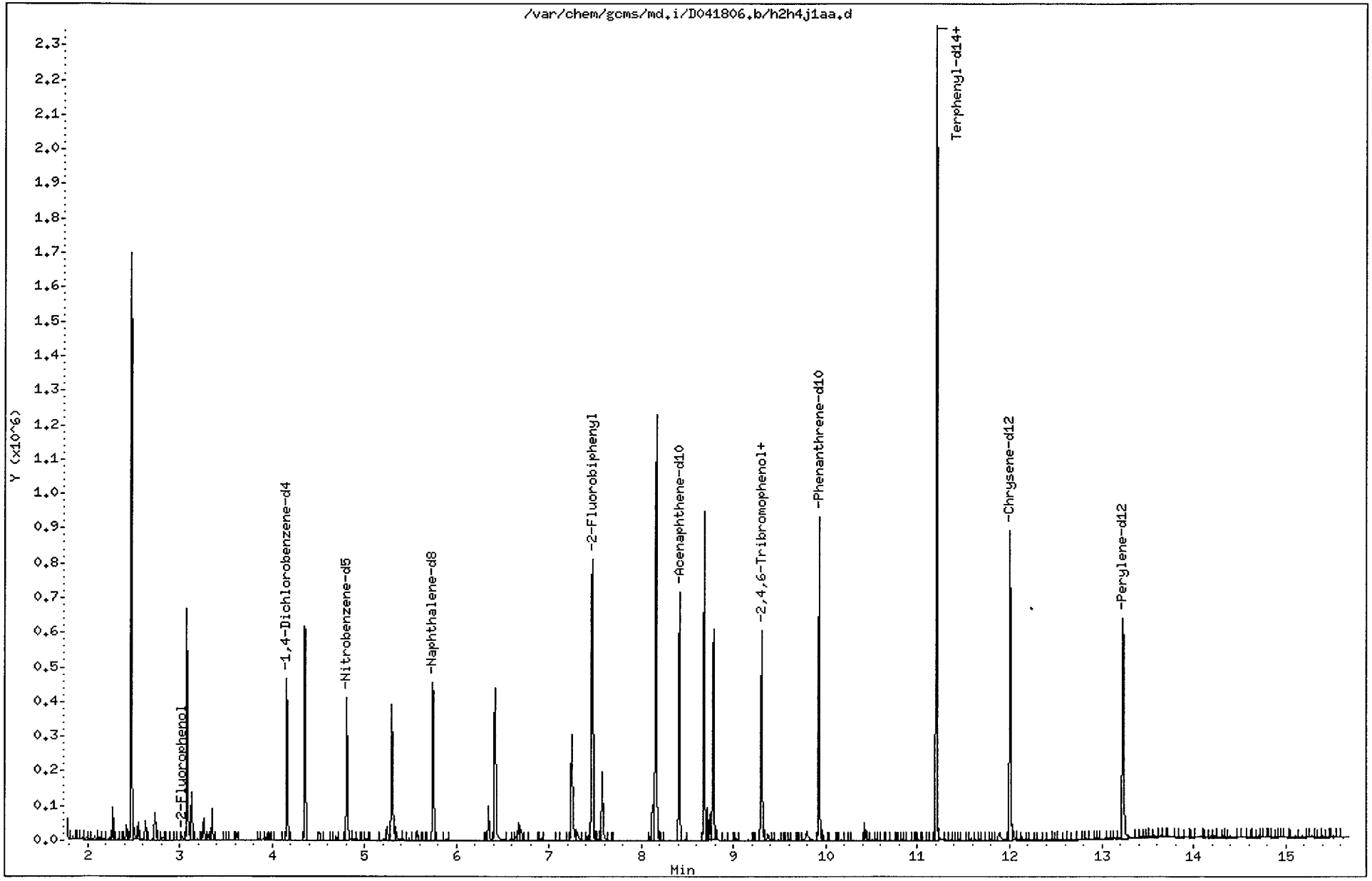
RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H4J1AA
Client Smp ID: G-3087-R3-MAKE-UP W
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.1	0.680	0.87*	36-98
$ 8 Phenol-d5	78.1	0.00	*	49-109
$ 9 Nitrobenzene-d5	52.1	28.3	54.34*	57-120
$ 10 2-Fluorobiphenyl	52.1	34.5	66.30	56-118
$ 11 2,4,6-Tribromophen	78.1	33.4	42.75*	55-134
$ 12 Terphenyl-d14	52.1	44.9	86.14	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Date : 18-APR-2006 22:44
Client ID: G-3087-R3-MAKE-UP W
Sample Info: H2H4J1AA,,0,,,,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

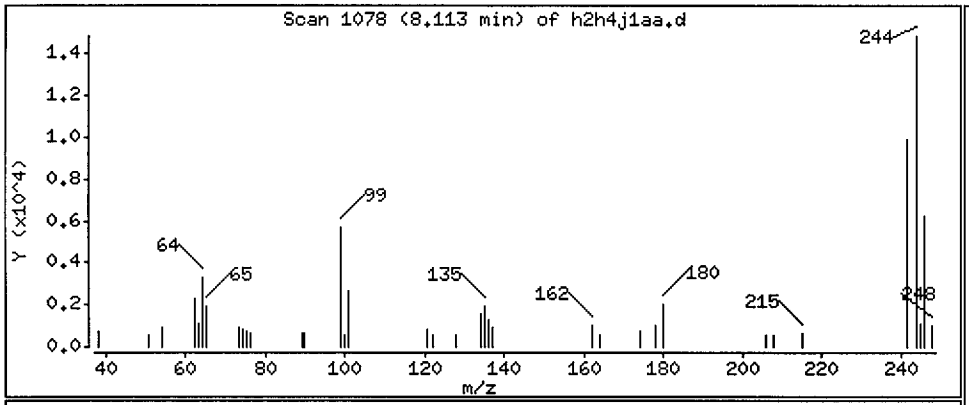
Operator: 60841

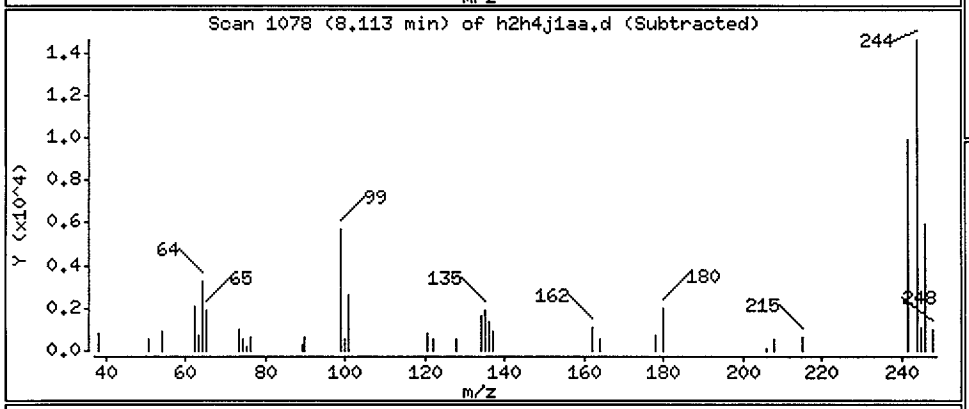
Column phase: ZB-5

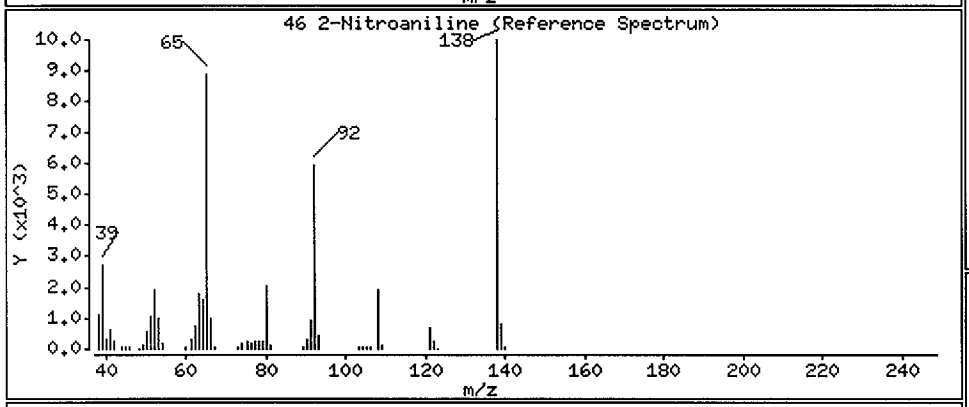
Column diameter: 0.25

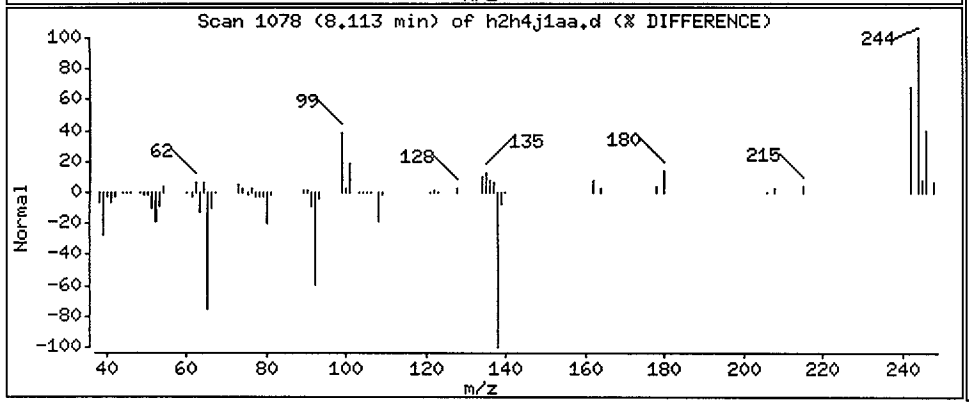
46 2-Nitroaniline

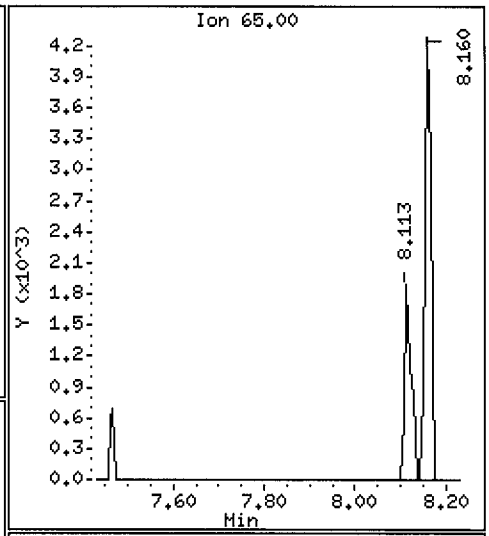
Concentration: 0.628 ug/L

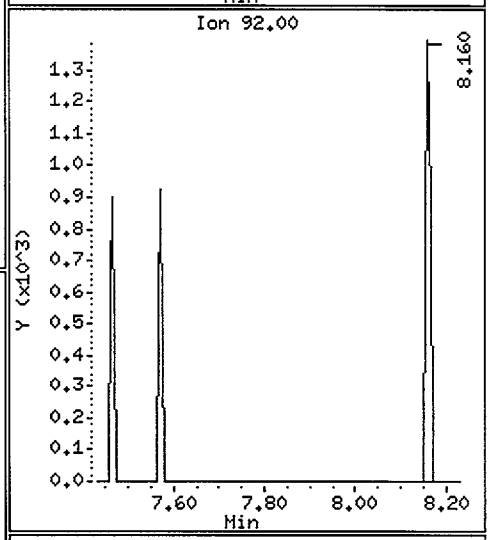


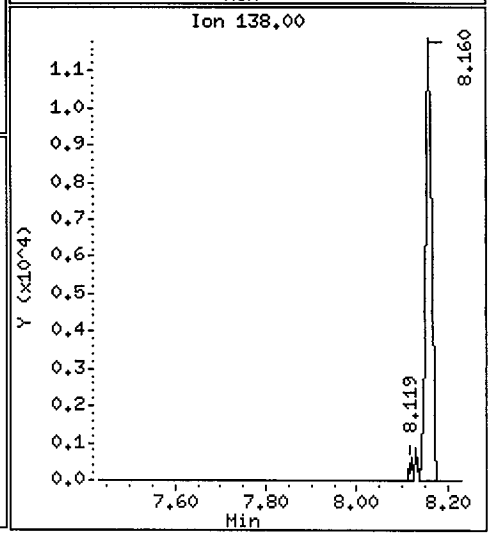












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

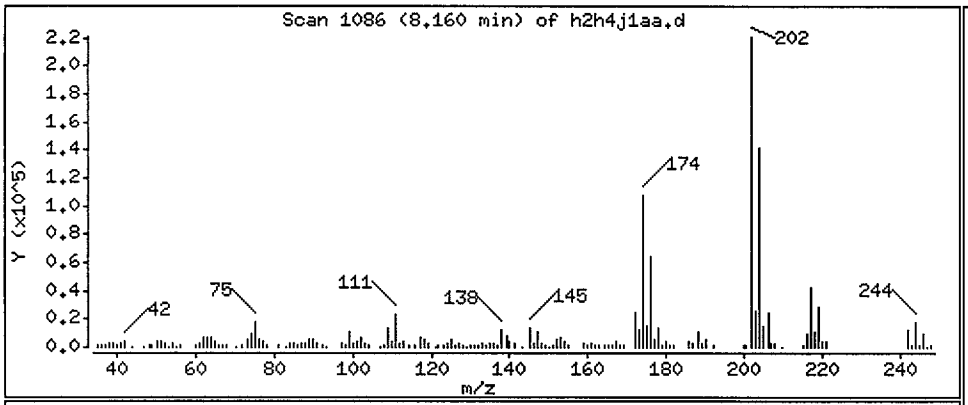
Operator: 60841

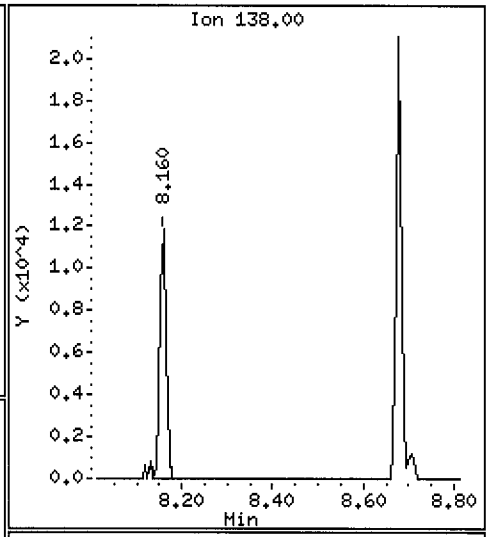
Column phase: ZB-5

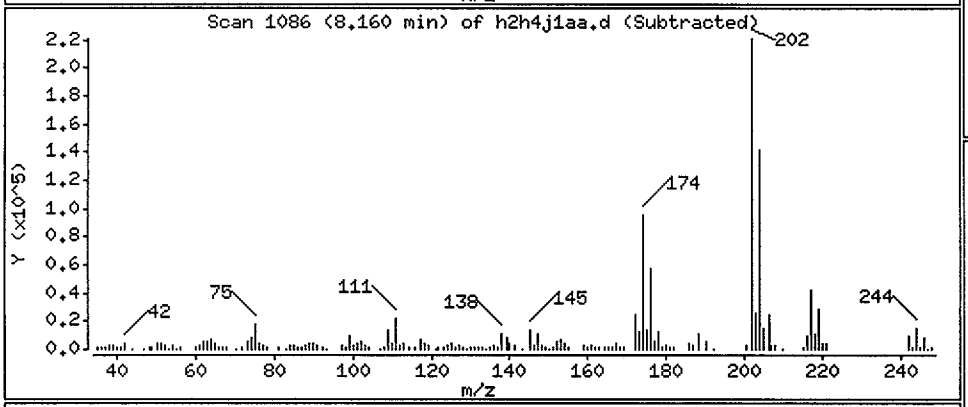
Column diameter: 0.25

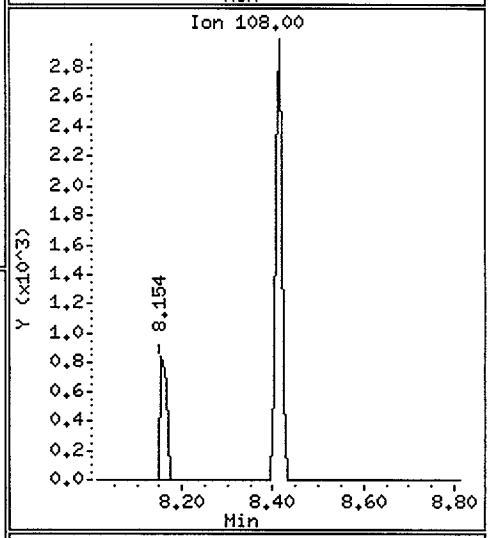
50 3-Nitroaniline

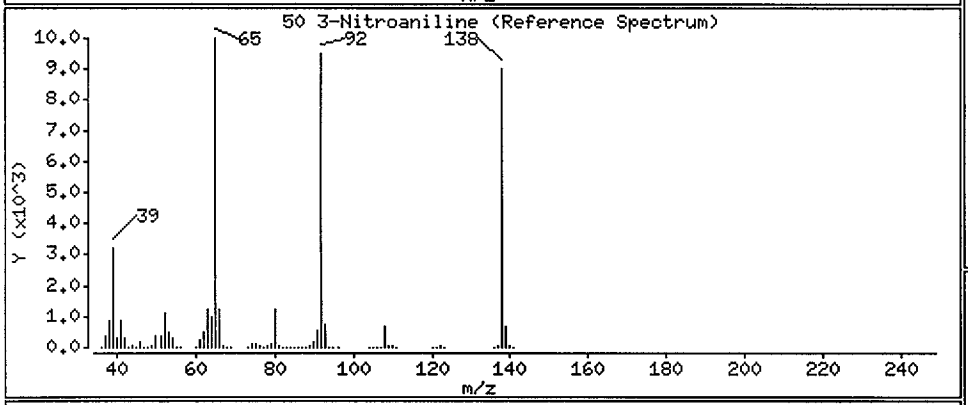
Concentration: 4.06 ug/L

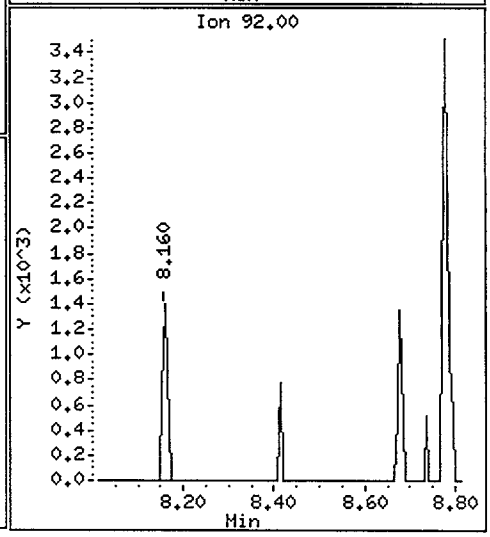


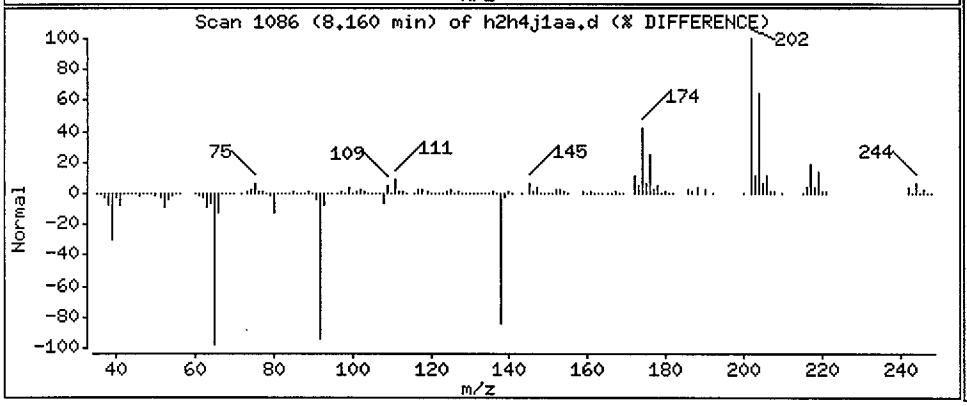












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

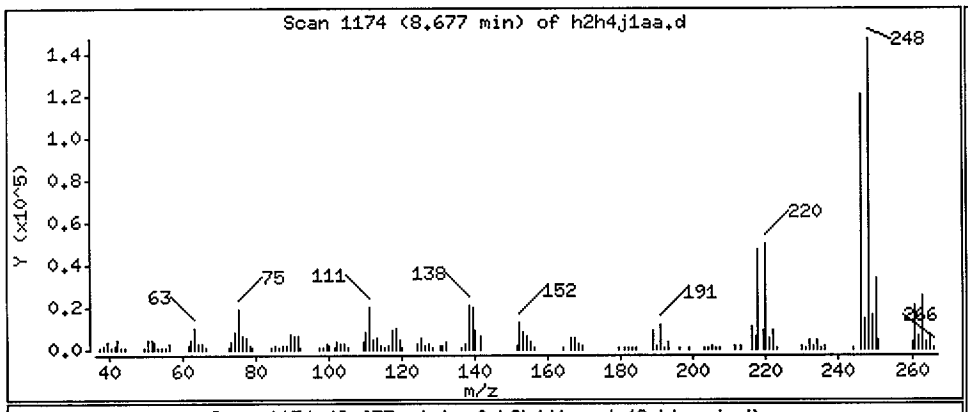
Operator: 60841

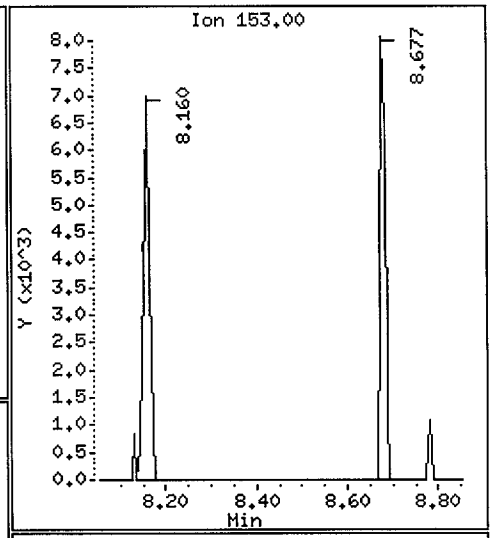
Column phase: ZB-5

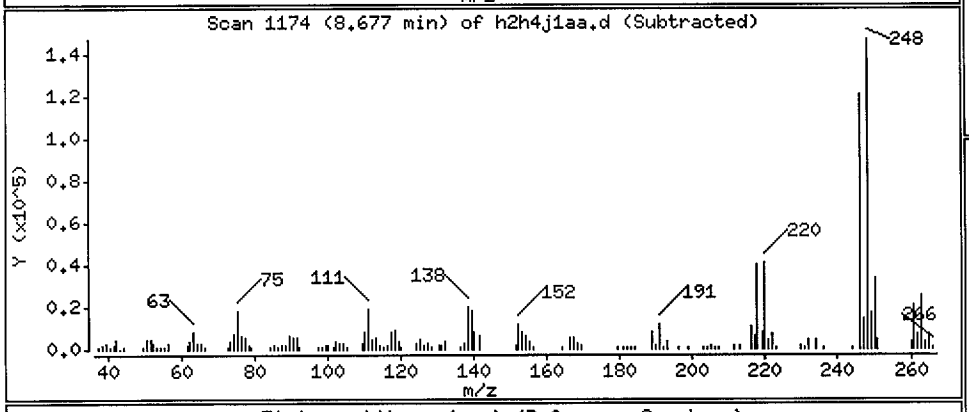
Column diameter: 0.25

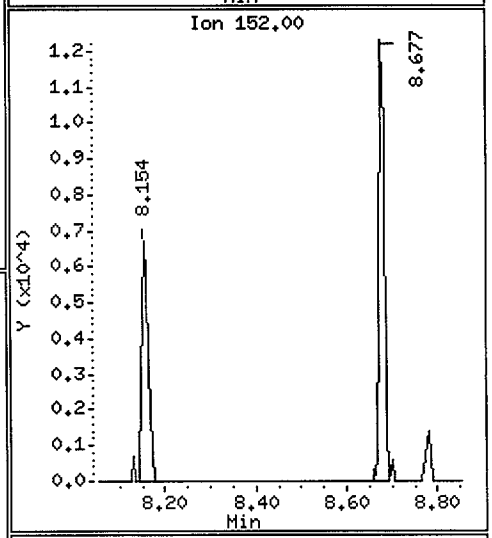
51 Acenaphthene (ccc)

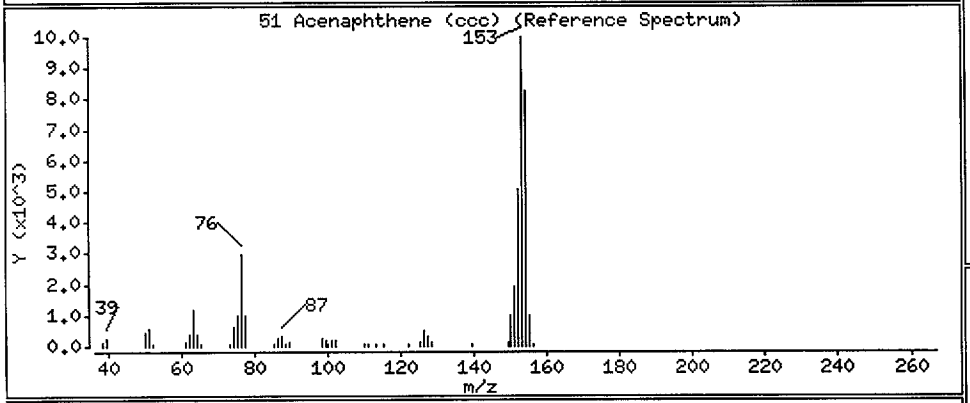
Concentration: 0.748 ug/L

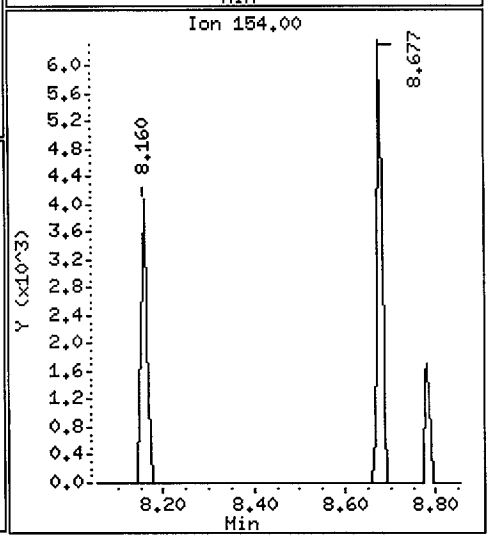


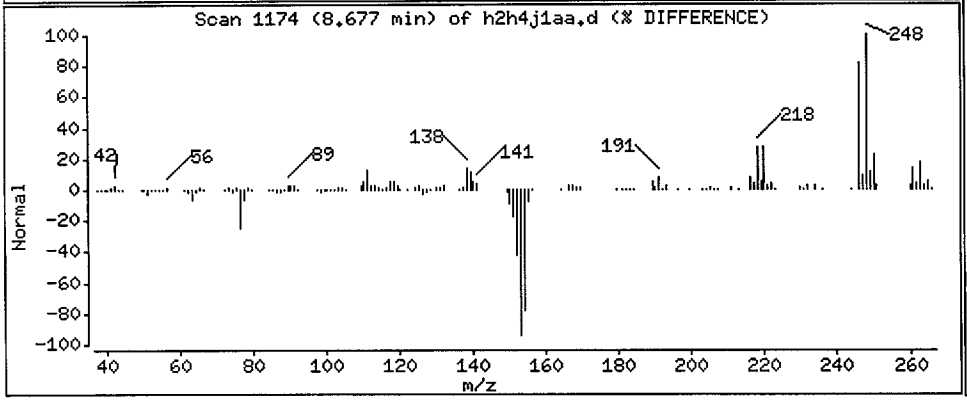












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

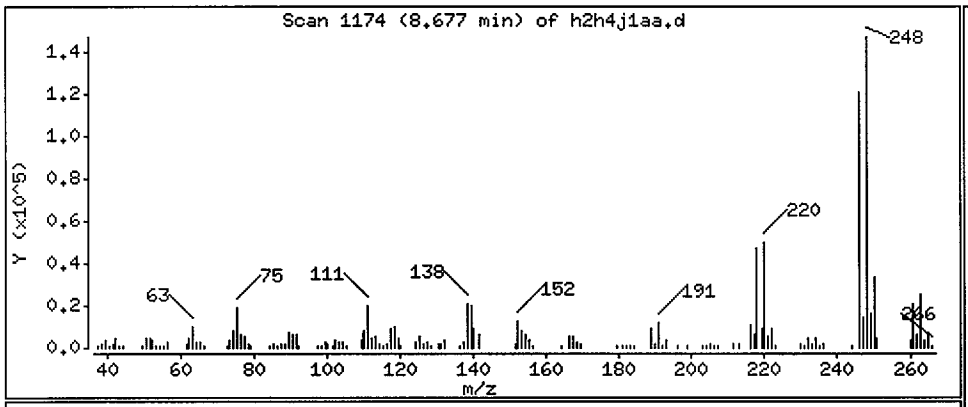
Operator: 60841

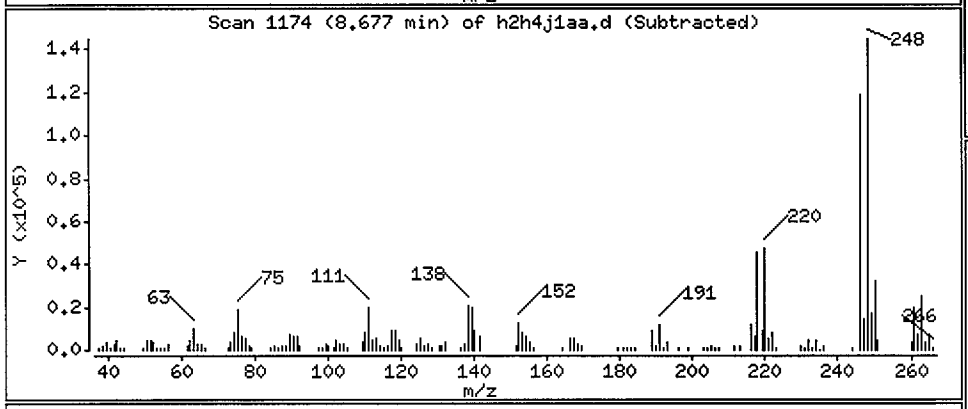
Column phase: ZB-5

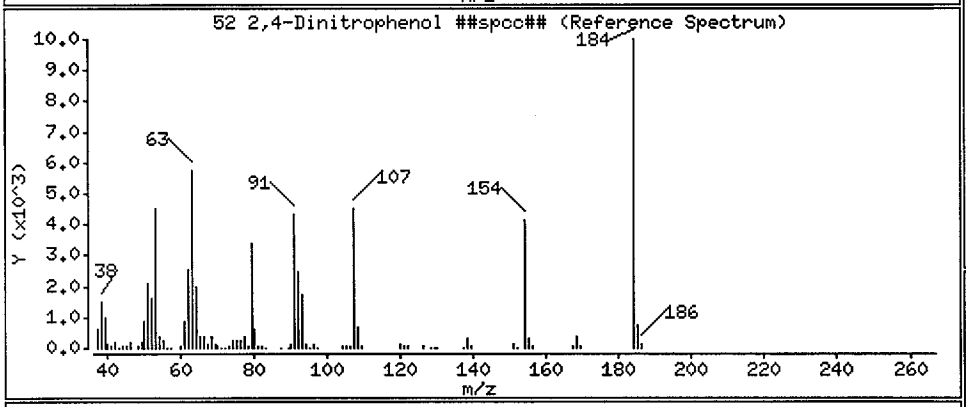
Column diameter: 0.25

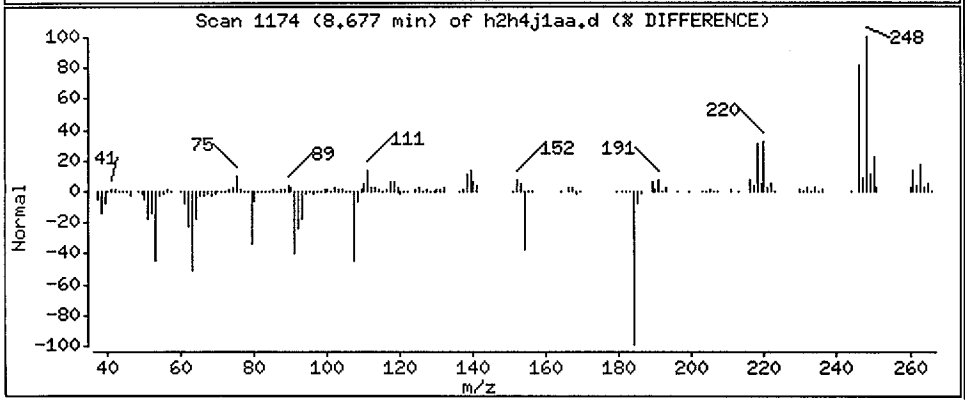
52 2,4-Dinitrophenol ##spcc##

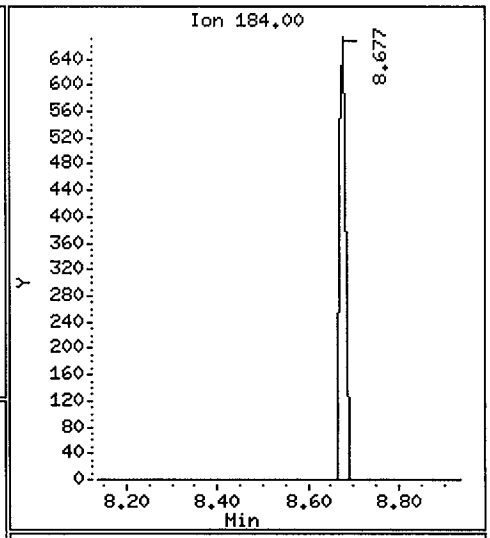
Concentration: 12.6 ug/L

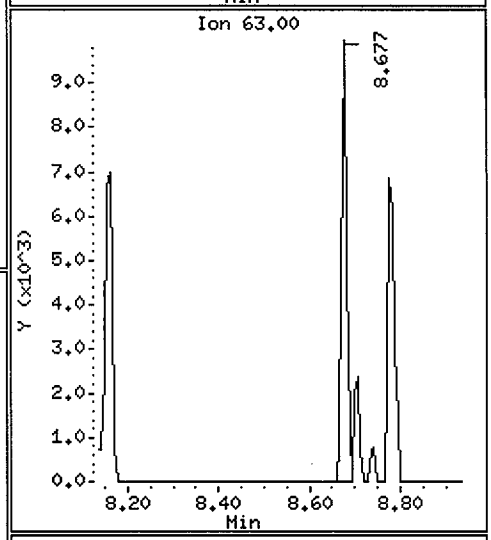


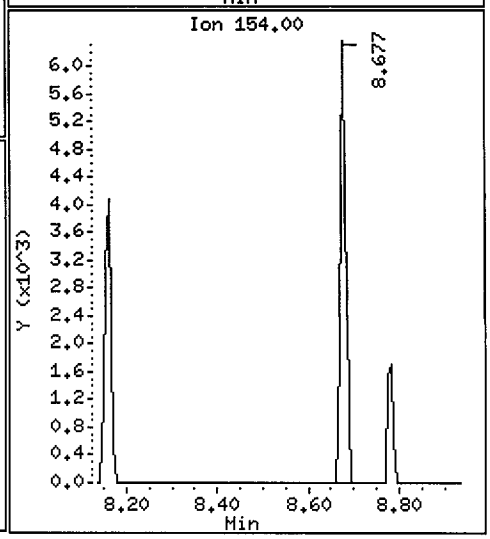












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

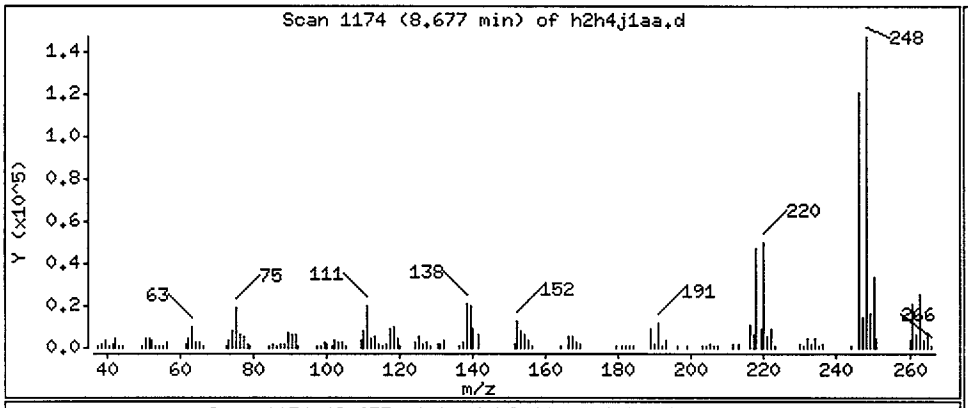
Operator: 60841

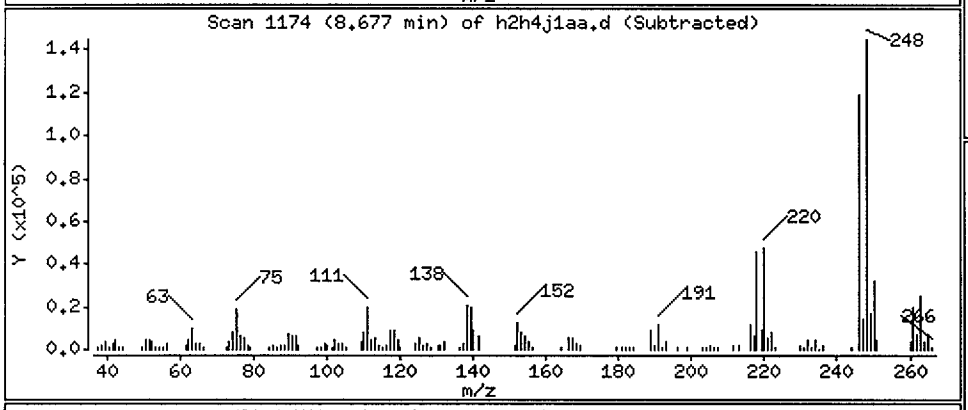
Column phase: ZB-5

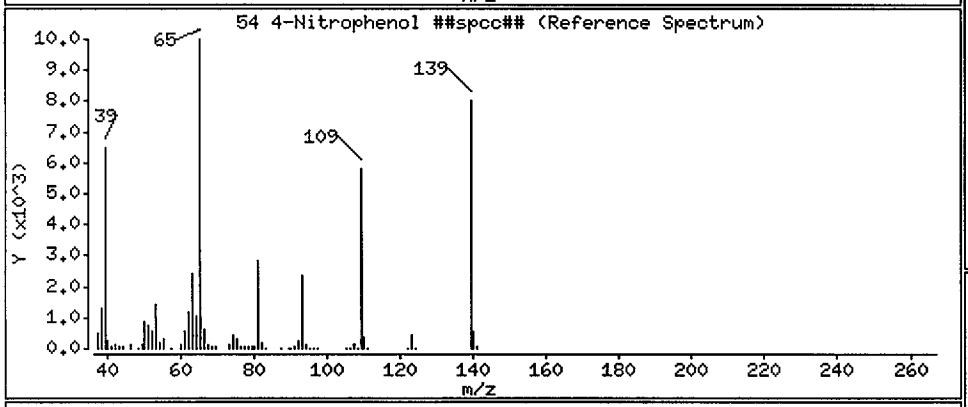
Column diameter: 0.25

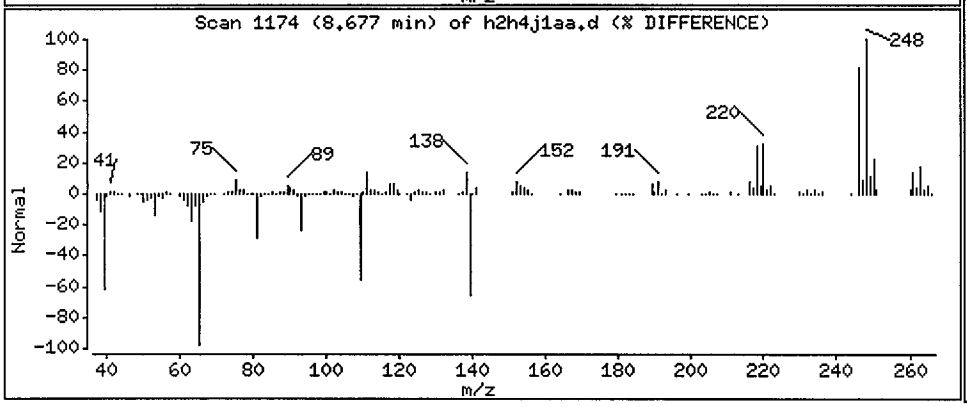
54 4-Nitrophenol ##spcc##

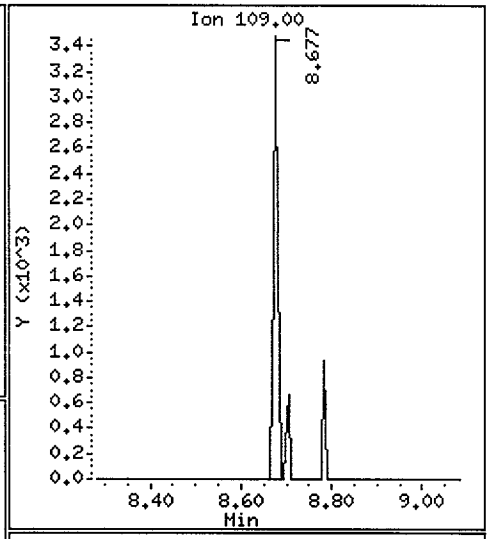
Concentration: 1.40 ug/L

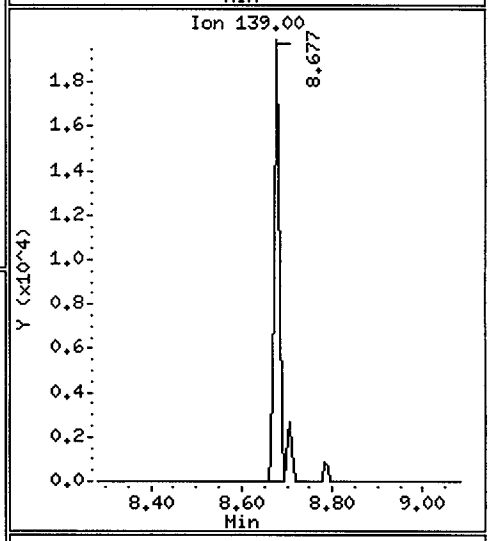


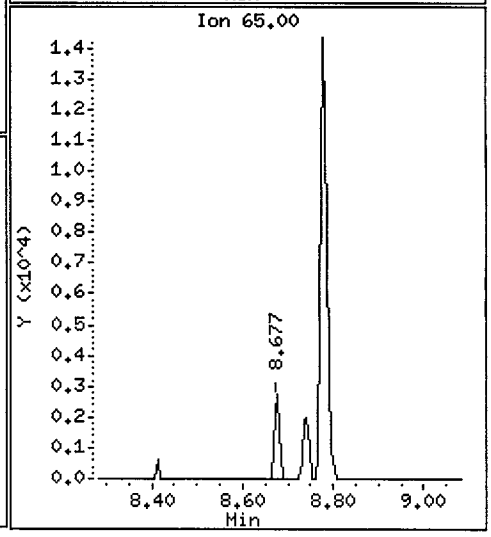












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

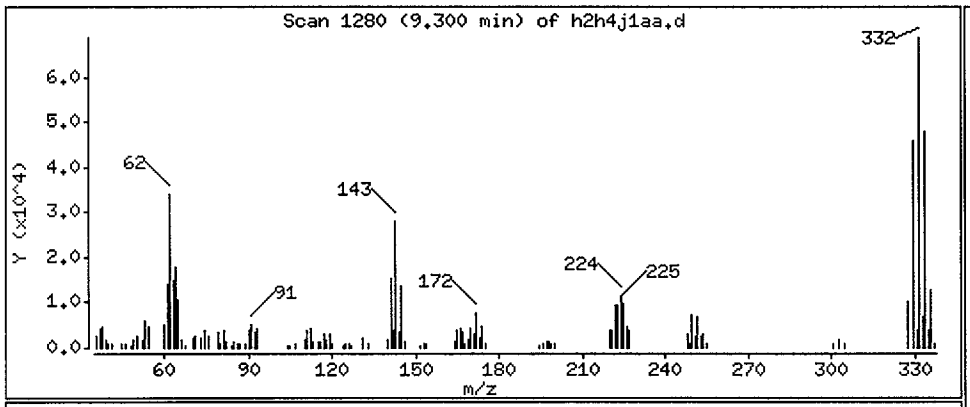
Operator: 60841

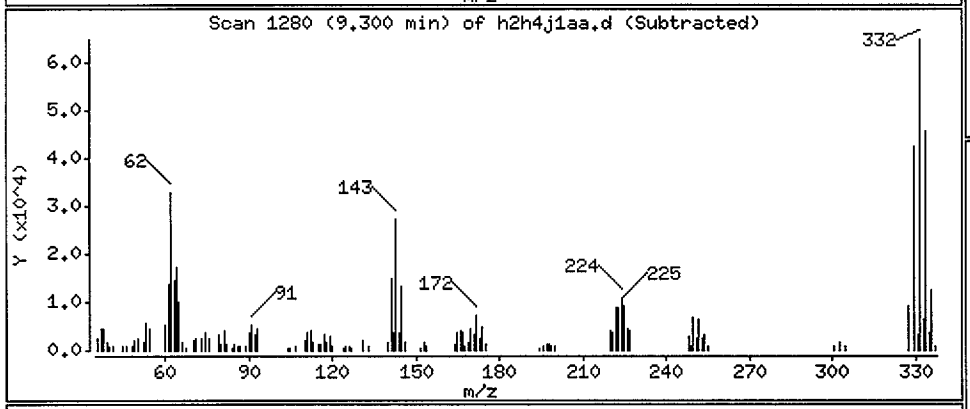
Column phase: ZB-5

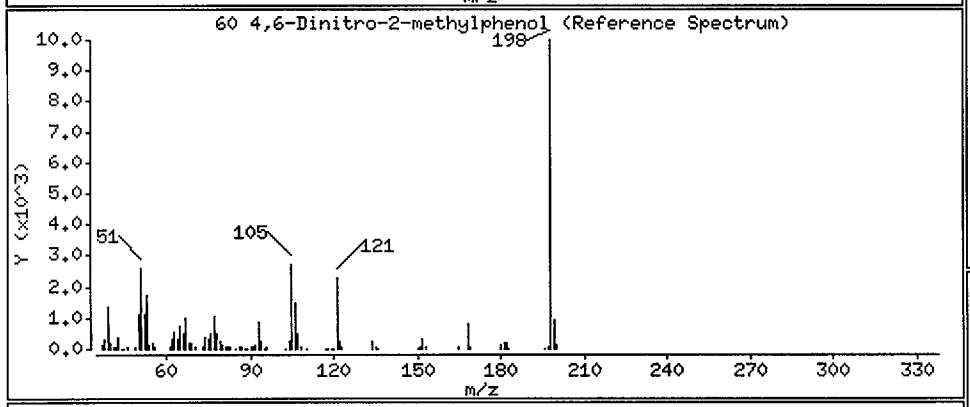
Column diameter: 0.25

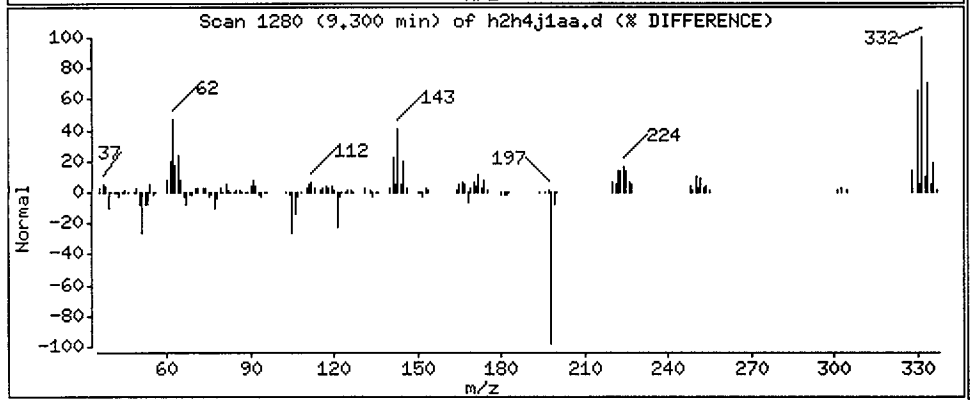
60 4,6-Dinitro-2-methylphenol

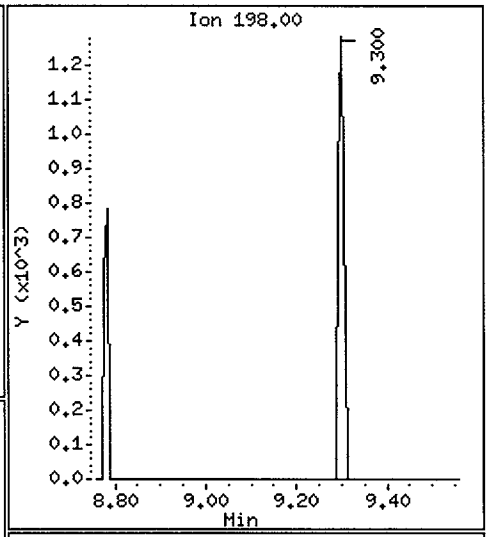
Concentration: 0.600 ug/L

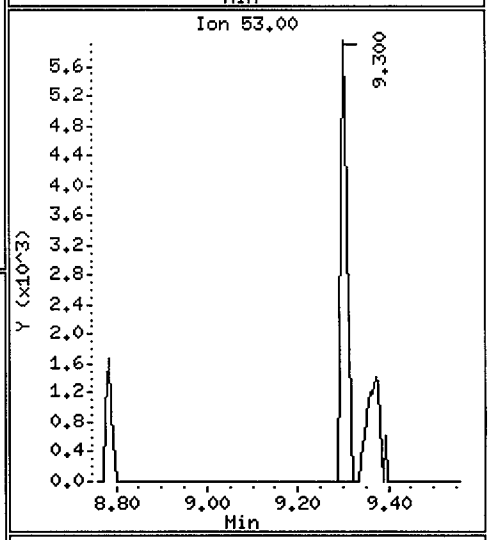


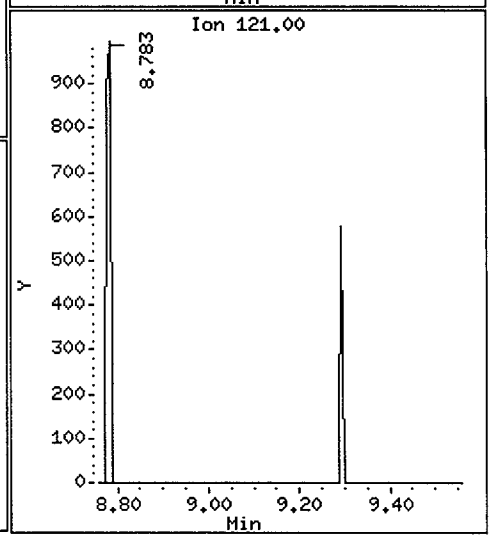












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

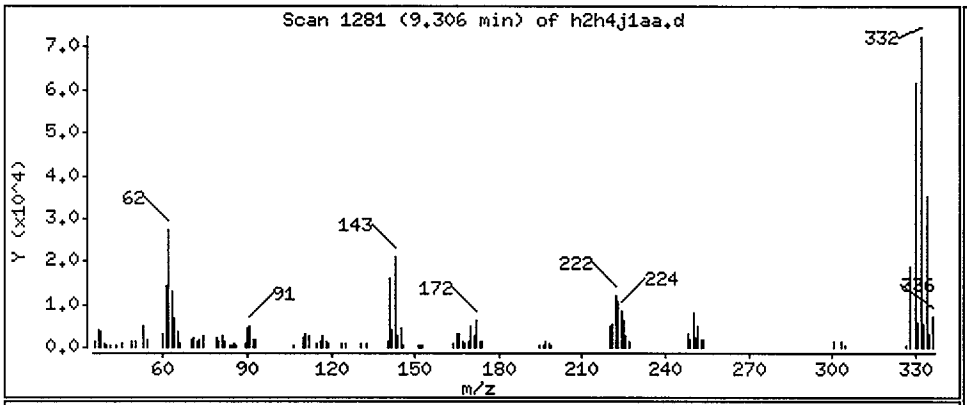
Operator: 60841

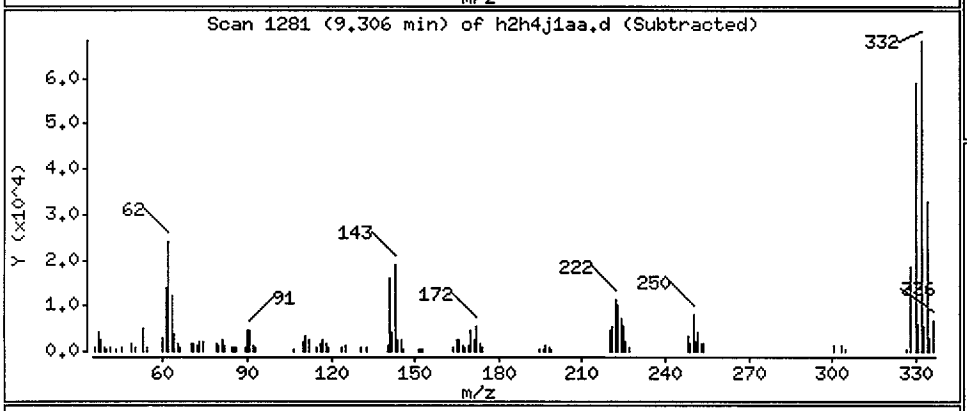
Column phase: ZB-5

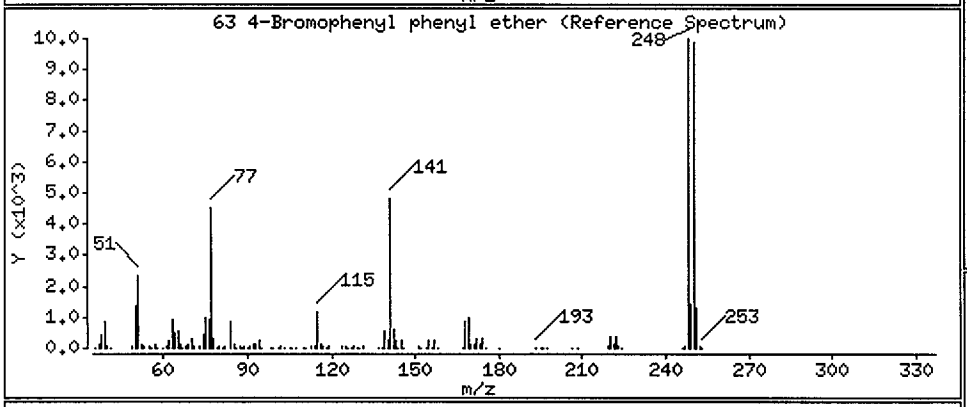
Column diameter: 0.25

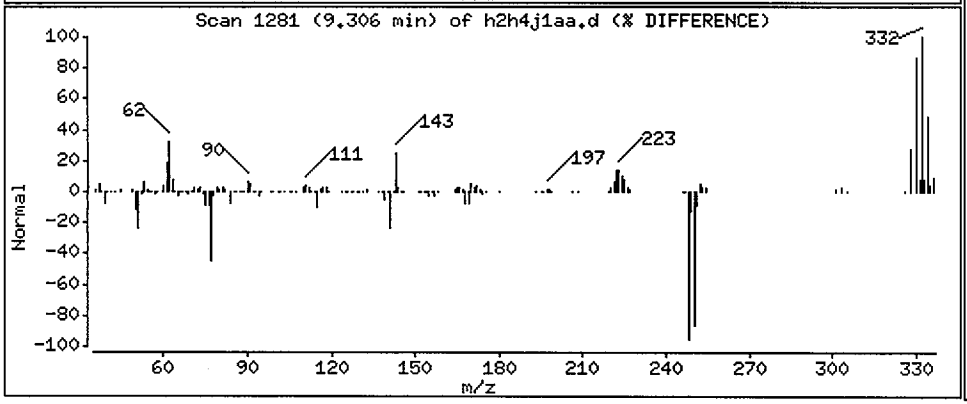
63 4-Bromophenyl phenyl ether

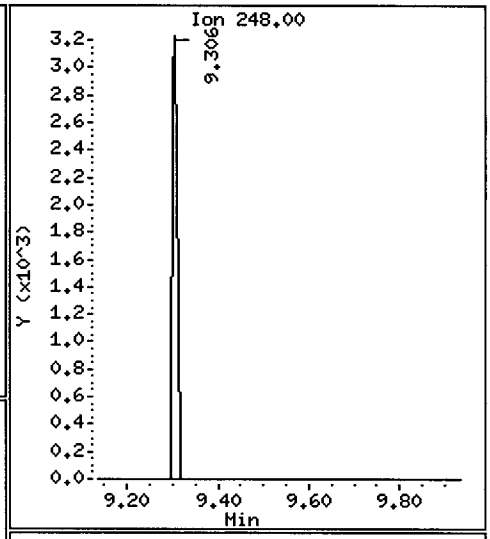
Concentration: 0.843 ug/L

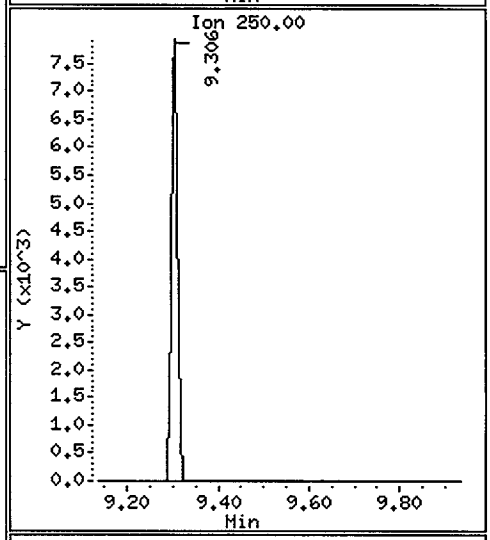


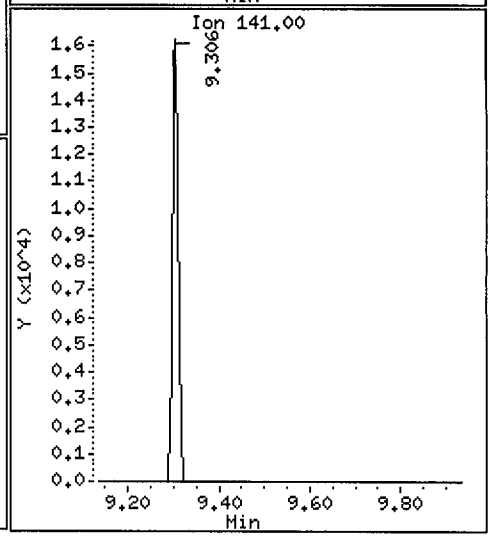












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

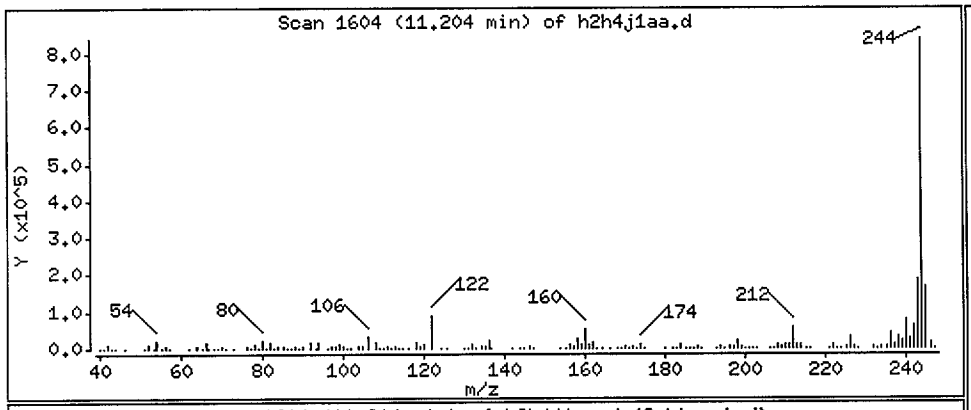
Operator: 60841

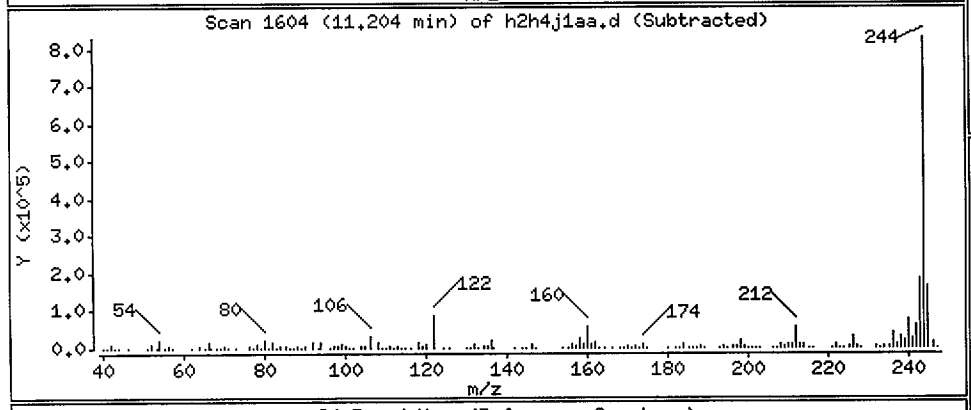
Column phase: ZB-5

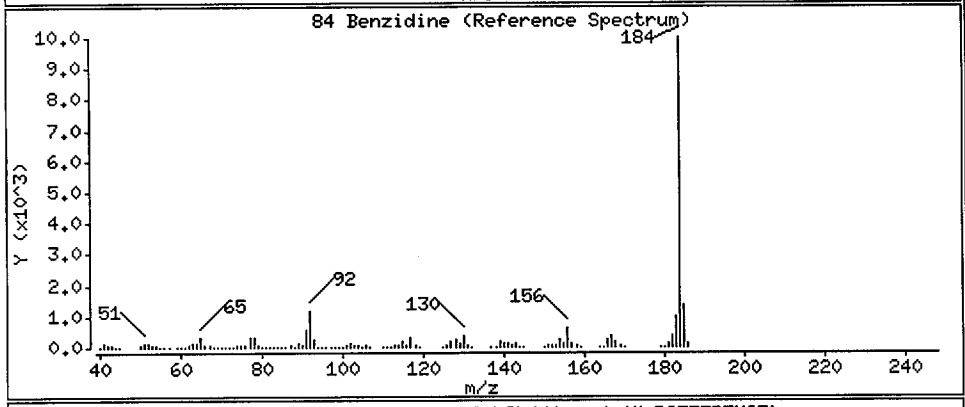
Column diameter: 0.25

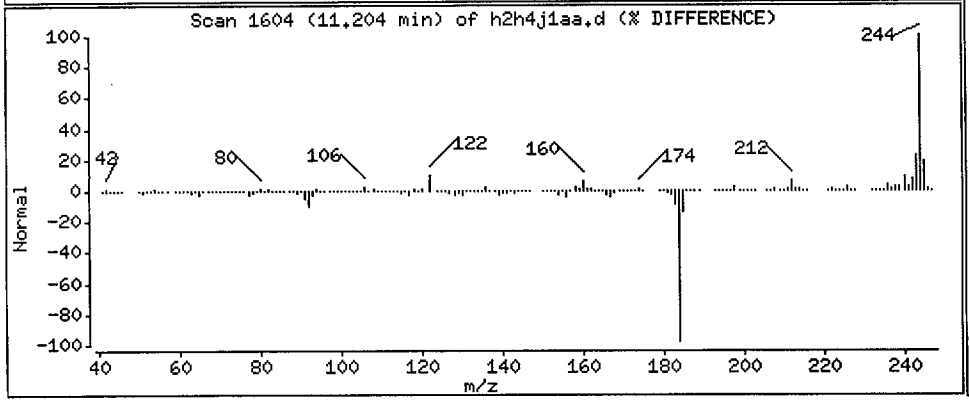
84 Benzidine

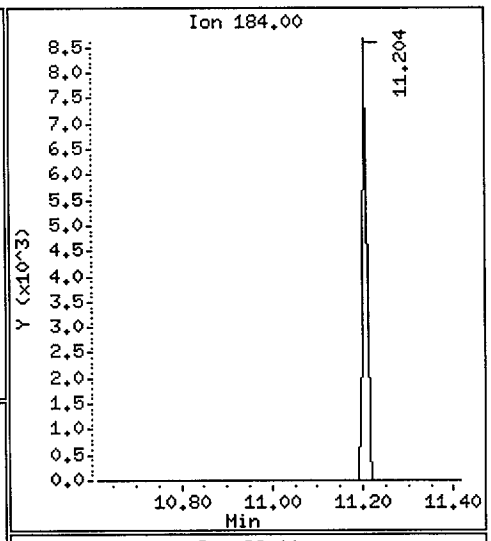
Concentration: 0.553 ug/L

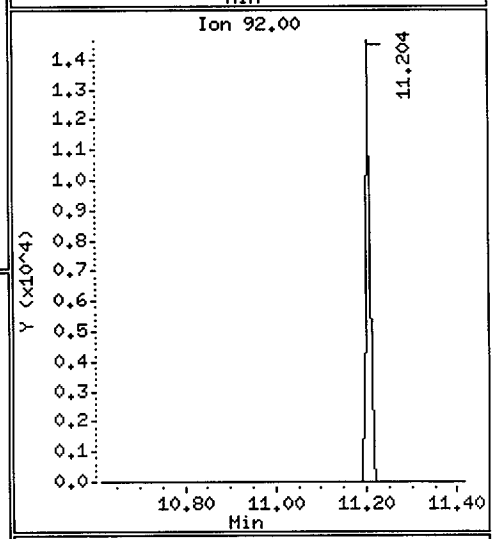


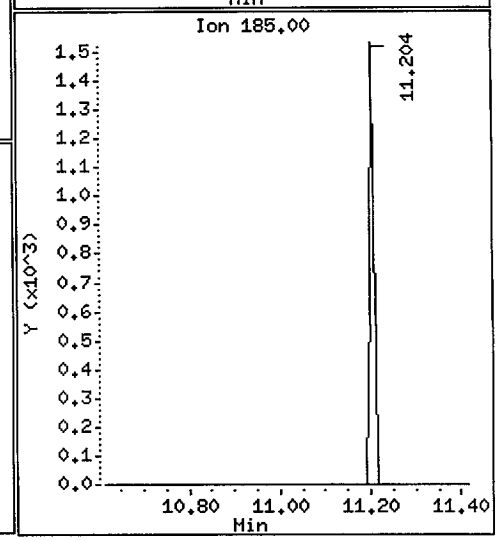












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

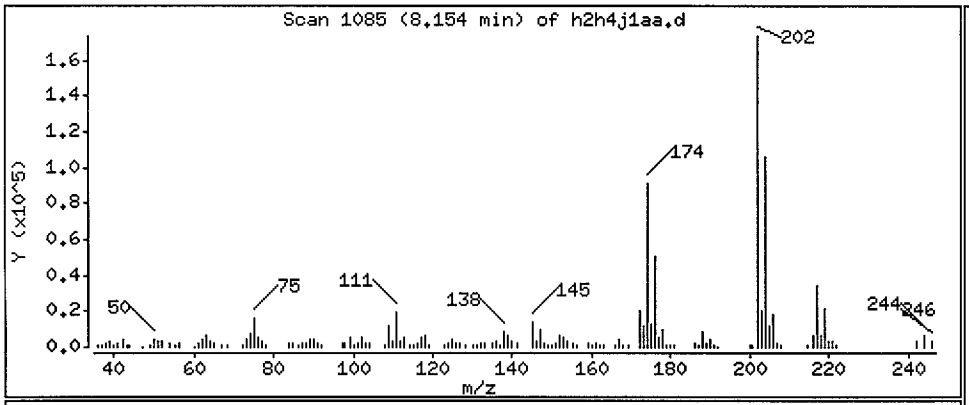
Operator: 60841

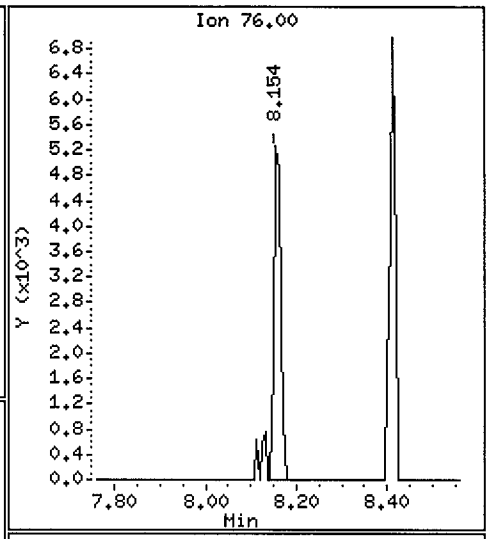
Column phase: ZB-5

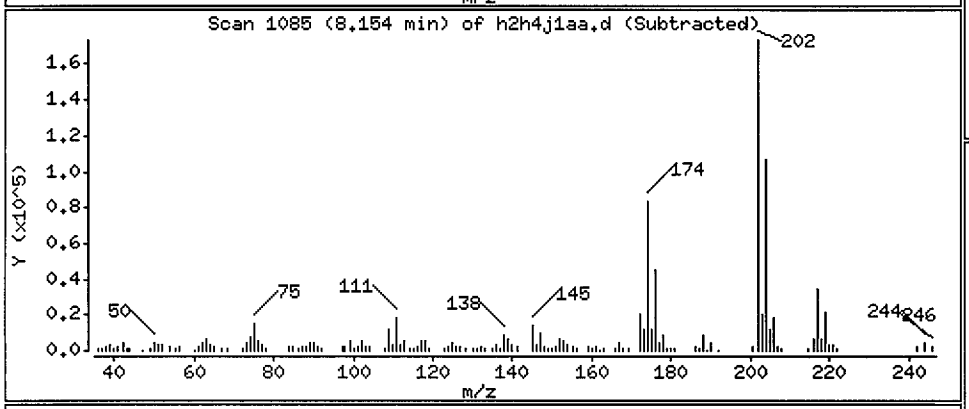
Column diameter: 0.25

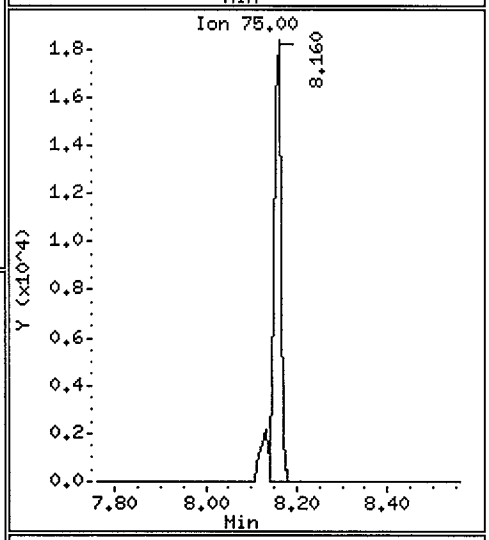
104 m-dinitrobenzene

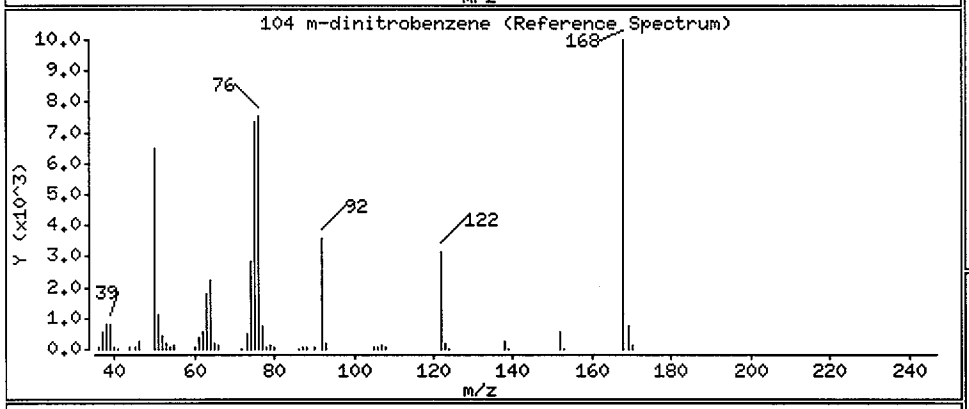
Concentration: 4.12 ug/L

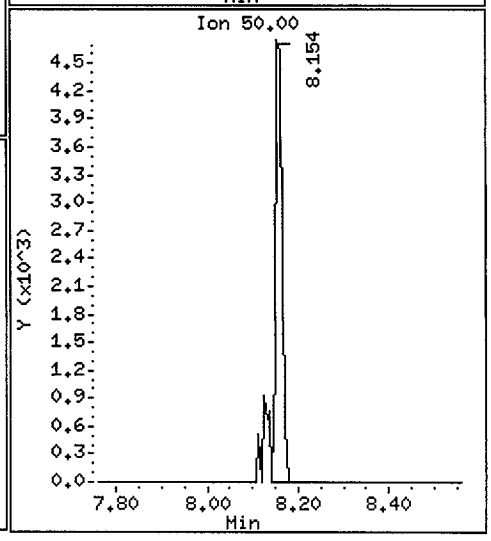


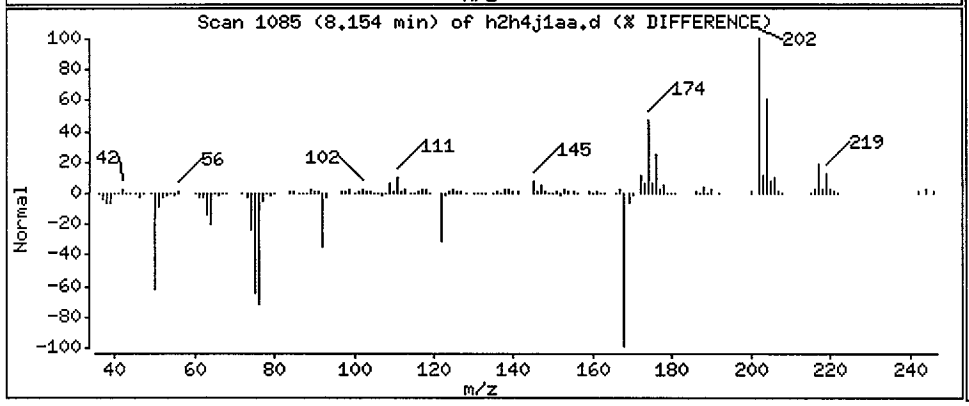












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0

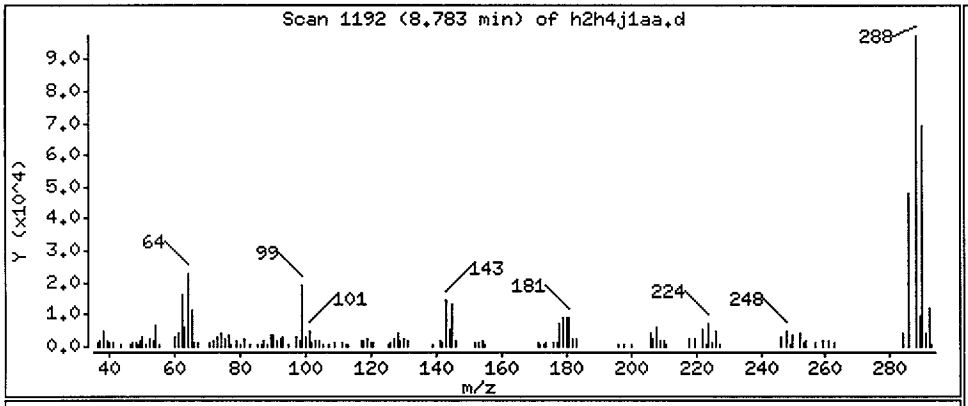
Operator: 60841

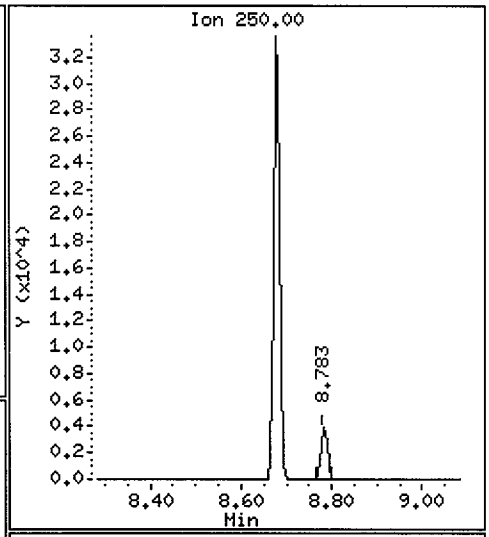
Column phase: ZB-5

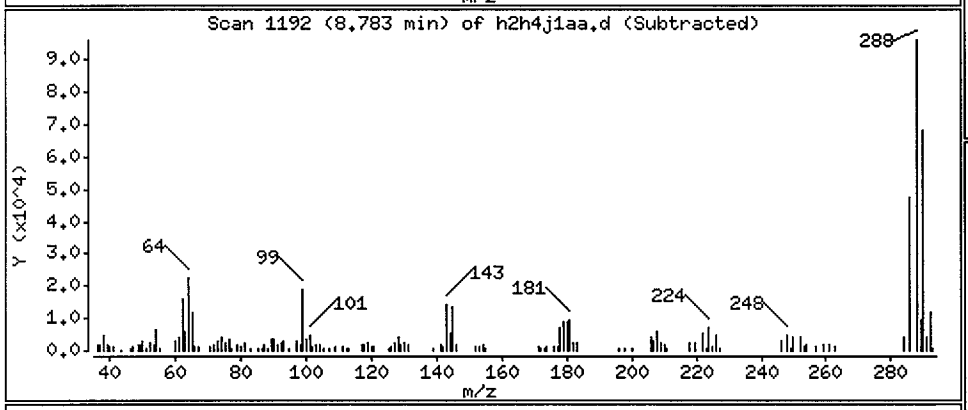
Column diameter: 0.25

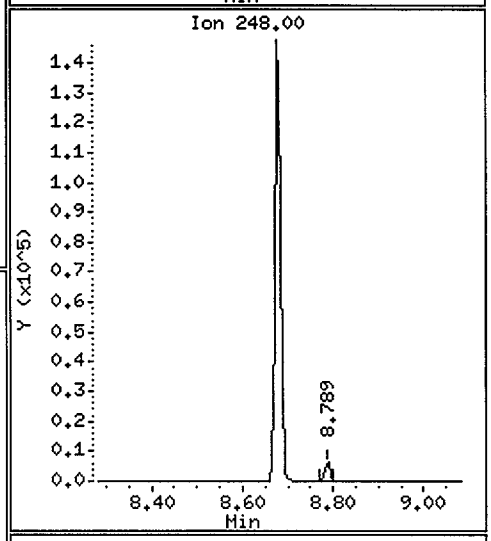
105 pentachlorobenzene

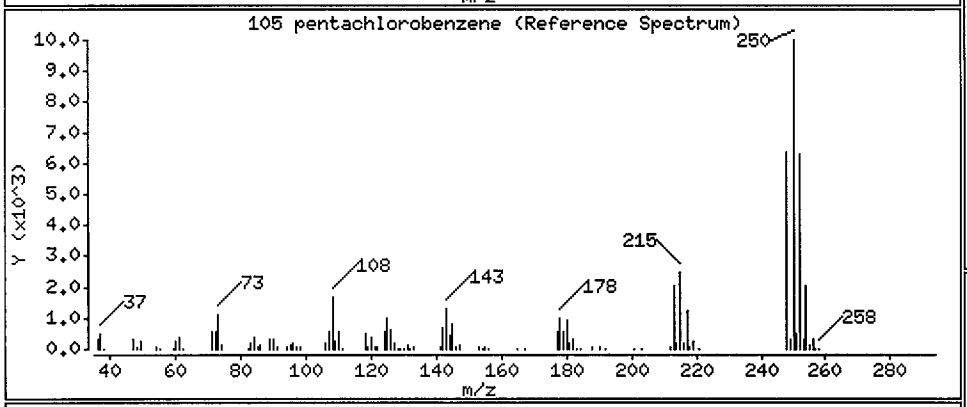
Concentration: 0.928 ug/L

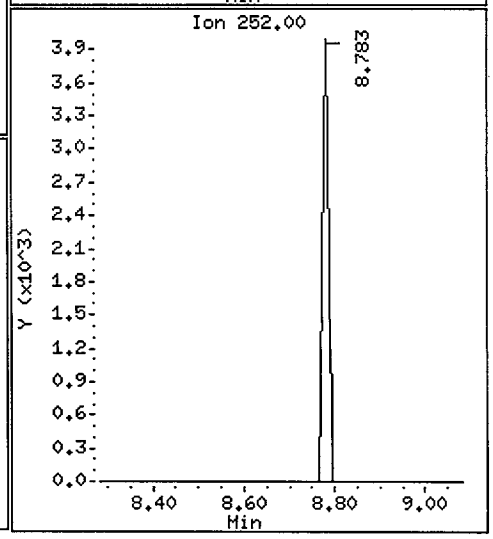


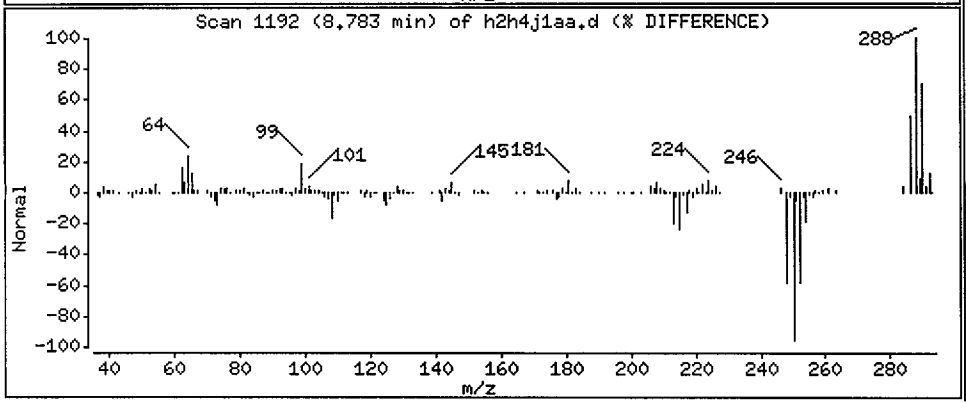












Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Report Date: 19-Apr-2006 15:59

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Lab Smp Id: H2H4J1AA Client Smp ID: G-3087-R3-MAKE-UP W
Inj Date : 18-APR-2006 22:44
Operator : 60841 Inst ID: md.i
Smp Info : H2H4J1AA,,0,,,,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	960.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	467759	20.000
* 2 Naphthalene-d8	5.745	456638	20.000
* 3 Acenaphthene-d10	8.413	715363	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-Pentene, 3-methyl-, (E)-				CAS #: 616-12-6			
2.279	93851	4.01279291	4.18	78	NIST05.1	1482	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d
Report Date: 19-Apr-2006 15:59

RT	HEIGHT	CONCENTRATIONS ON-COL(ng/uL)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Propanoic acid, 2-hydroxy-2-methyl-					CAS #: 594-61-6		
2.473	1701584	72.7547305	75.8	38	NIST05.1	4591	1
Butanamide					CAS #: 541-35-5		
3.078	666913	28.5152397	29.7	50	NIST05.1	1836	1
Methane, tribromo-					CAS #: 75-25-2		
3.131	137357	5.87298160	6.12	98	NIST05.1	92331	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.353	615846	26.3317649	27.4	97	NIST05.1	23150	1
2-Bromo-4-fluorophenol					CAS #: 496-69-5		
5.299	391447	17.1447405	17.8	46	NIST05.1	50134	2
2,5-Dimethylbenzselenazole					CAS #: 2818-89-5		
6.345	98215	4.30165689	4.48	43	NIST05.1	65327	2
Proflavine					CAS #: 92-62-6		
6.415	438749	19.2164910	20.0	10	NIST05.1	63641	2
Benz[a]acridine, 1,5-dimethyl-					CAS #: 55030-47-2		
7.249	303264	8.47860457	8.83	14	NIST05.1	96904	3
4,6-Dibromo-5-hydroxypyridazine 1-oxide					CAS #: 19971-61-0		
7.573	195813	5.47450735	5.70	50	NIST05.1	104331	3
(3,5-Dichlorophenyl)diethylamine					CAS #: 1000306-63-5		
8.160	1229502	34.3742128	35.8	91	NIST05.1	68900	3
5-Amino-4,6,8-trichloroquinoline					CAS #: 1000252-19-9		
8.677	950744	26.5807429	27.7	64	NIST05.1	89583	3
Naphthalene-1,5-disulfonic acid					CAS #: 81-04-9		
8.783	602154	16.8349216	17.5	12	NIST05.1	116792	3

Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

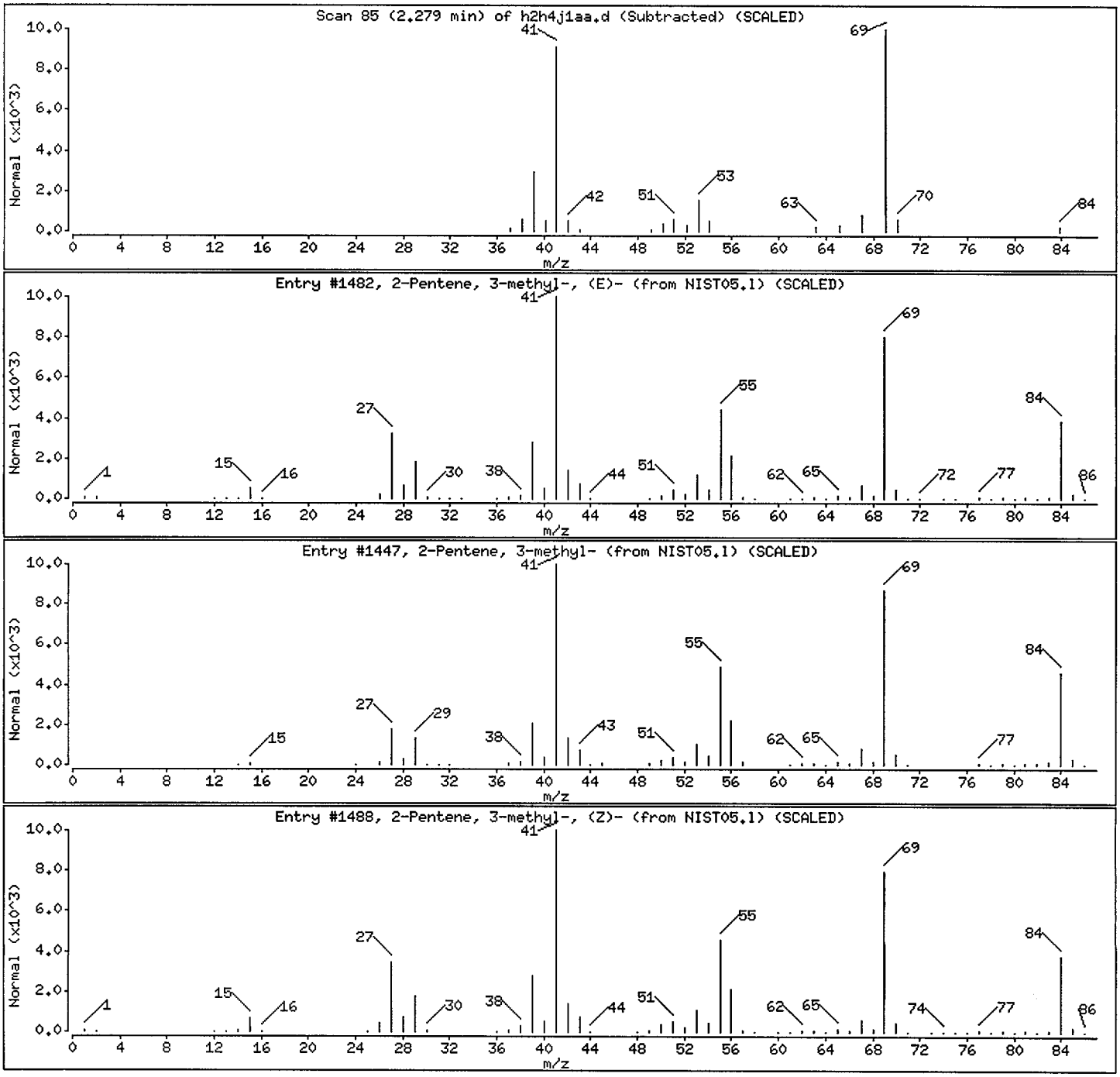
Client ID: G-3087-R3-MAKE-UP W | Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentene, 3-methyl-, (E)-	616-12-6	NIST05.1	1482	78	C6H12	84
2-Pentene, 3-methyl-	922-61-2	NIST05.1	1447	74	C6H12	84
2-Pentene, 3-methyl-, (Z)-	922-62-3	NIST05.1	1488	74	C6H12	84



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

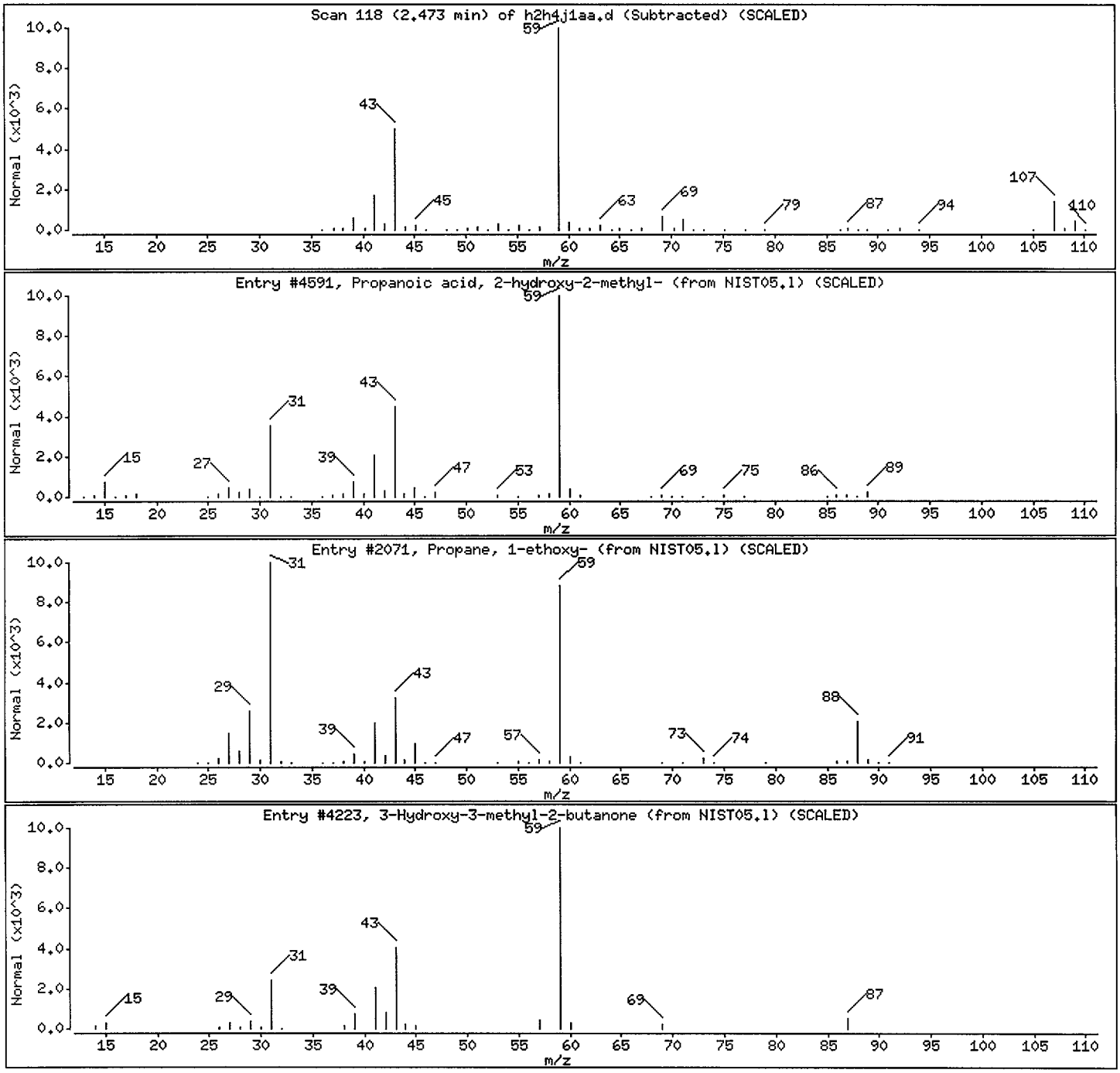
Client ID: G-3087-R3-MAKE-UP W | Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propanoic acid, 2-hydroxy-2-methyl-	594-61-6	NIST05.1	4591	38	C4H8O3	104
Propane, 1-ethoxy-	628-32-0	NIST05.1	2071	36	C5H12O	88
3-Hydroxy-3-methyl-2-butanone	115-22-0	NIST05.1	4223	36	C5H10O2	102



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

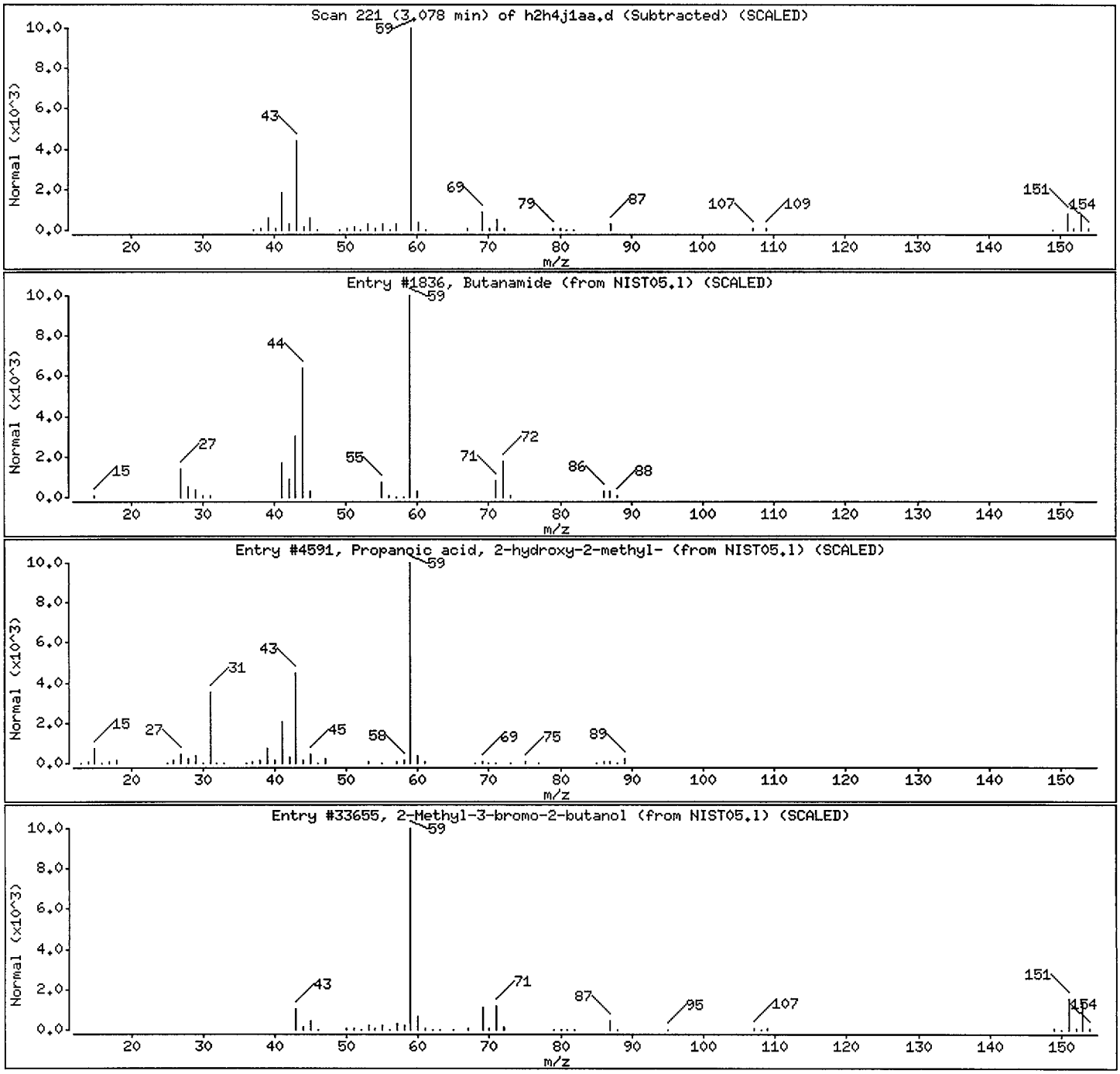
Client ID: G-3087-R3-MAKE-UP W | Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanamide	541-35-5	NIST05.1	1836	50	C4H9NO	87
Propanoic acid, 2-hydroxy-2-methyl-	594-61-6	NIST05.1	4591	50	C4H8O3	104
2-Methyl-3-bromo-2-butanol	2588-77-4	NIST05.1	33655	43	C5H11BrO	166



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

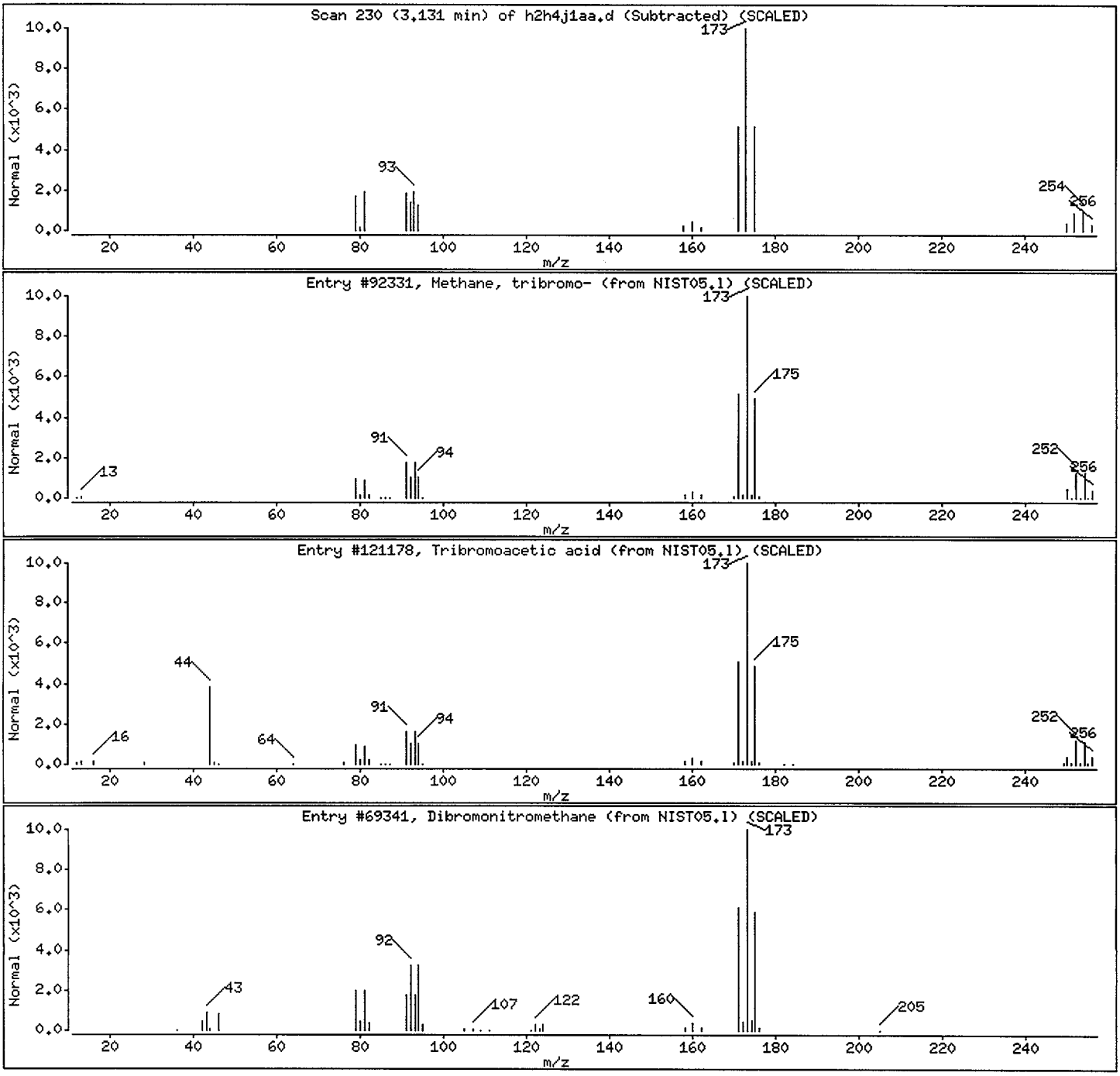
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methane, tribromo-	75-25-2	NIST05.1	92331	98	CHBr3	250
Tribromoacetic acid	75-96-7	NIST05.1	121178	90	C2HBr3O2	294
Dibromonitromethane	598-91-4	NIST05.1	69341	40	CHBr2NO2	217



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

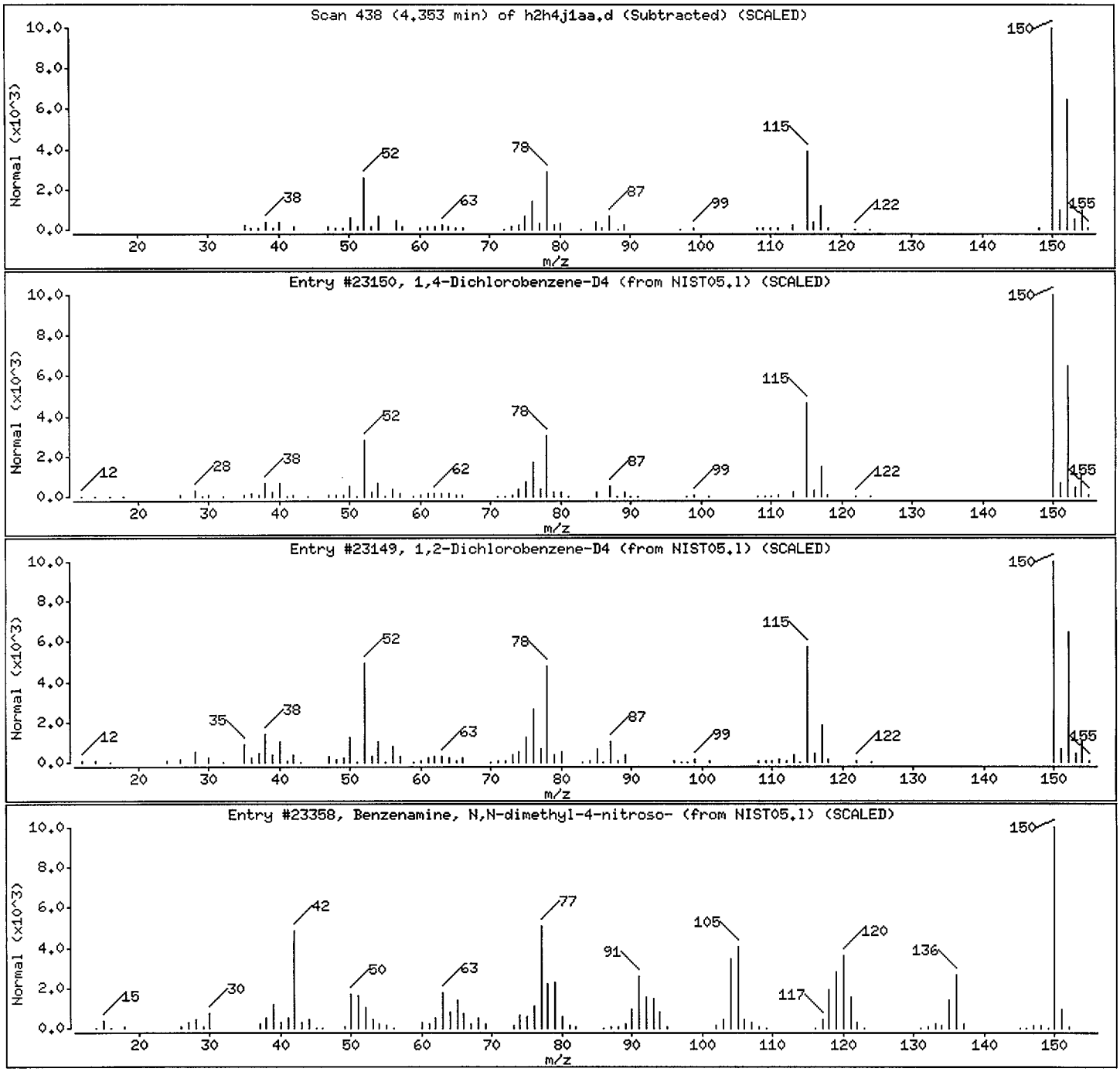
Client ID: G-3087-R3-MAKE-UP W | Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	97	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
Benzenamine, N,N-dimethyl-4-nitroso-	138-89-6	NIST05.1	23358	27	C8H10N2O	150



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

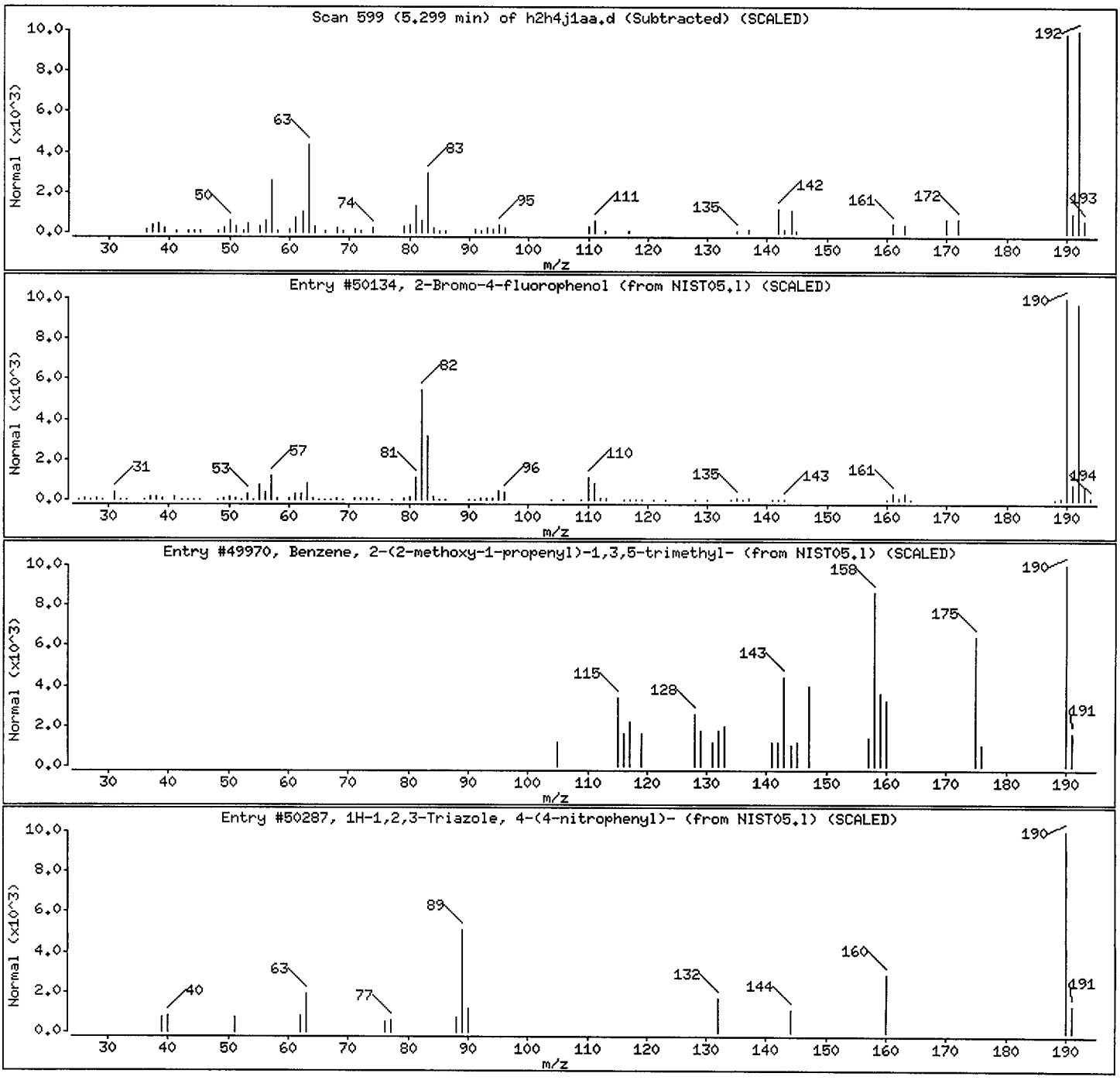
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Bromo-4-fluorophenol	496-69-5	NIST05.l	50134	46	C6H4BrFO	190
Benzene, 2-(2-methoxy-1-propenyl)-1,3,5-	53291-95-5	NIST05.l	49970	10	C13H18O	190
1H-1,2,3-Triazole, 4-(4-nitrophenyl)-	6111-97-3	NIST05.l	50287	10	C8H6N4O2	190



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

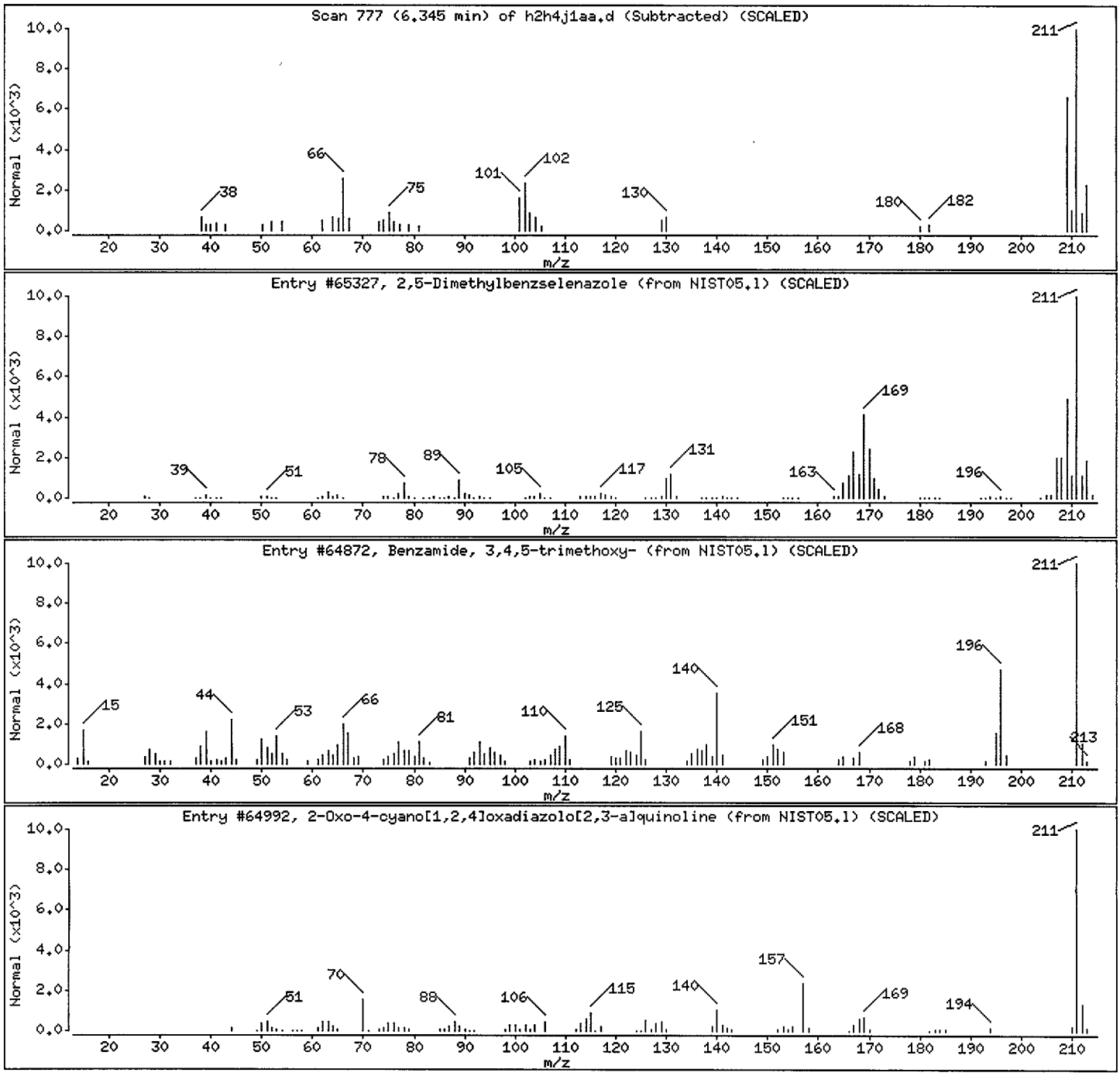
Client ID: G-3087-R3-MAKE-UP W | Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,5-Dimethylbenzselenazole	2818-89-5	NIST05.1	65327	43	C9H9NSe	211
Benzamide, 3,4,5-trimethoxy-	3086-62-2	NIST05.1	64872	38	C10H13NO4	211
2-Oxo-4-cyano[1,2,4]oxadiazolo[2,3-a]qui	1000255-12-8	NIST05.1	64992	22	C11H5N3O2	211



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

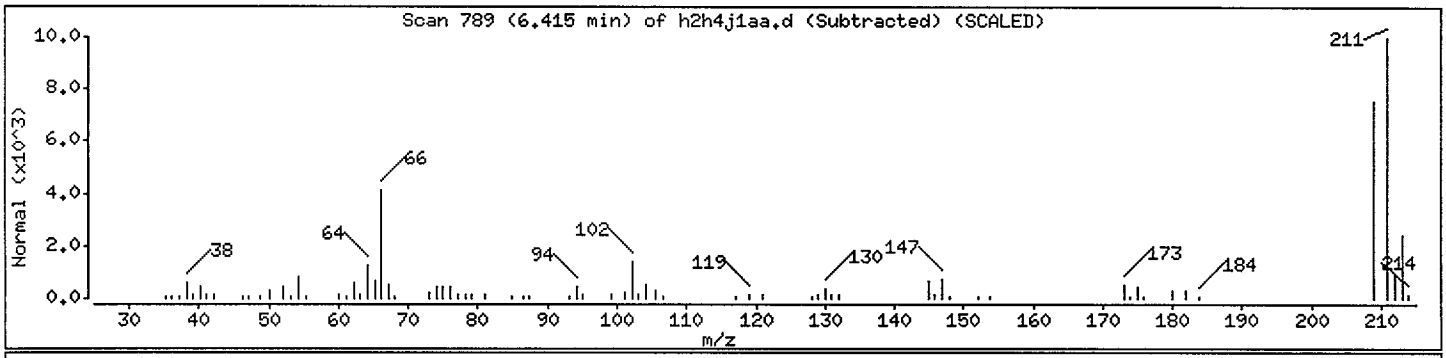
Volume Injected (uL): 1.0

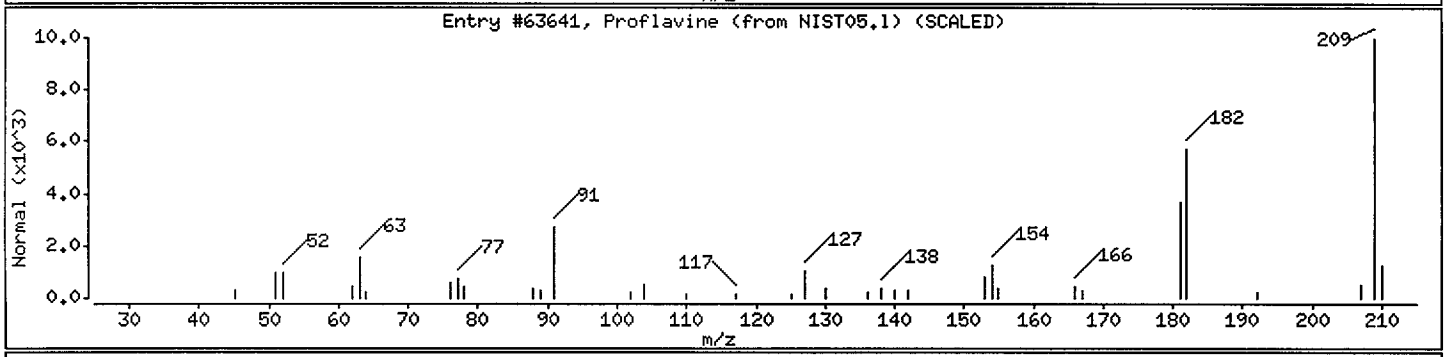
Operator: 60841

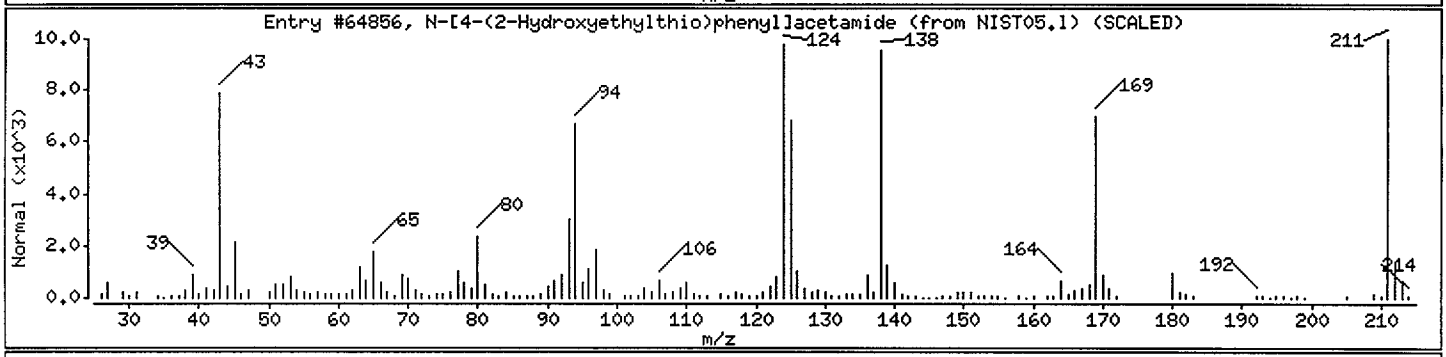
Column phase: ZB-5

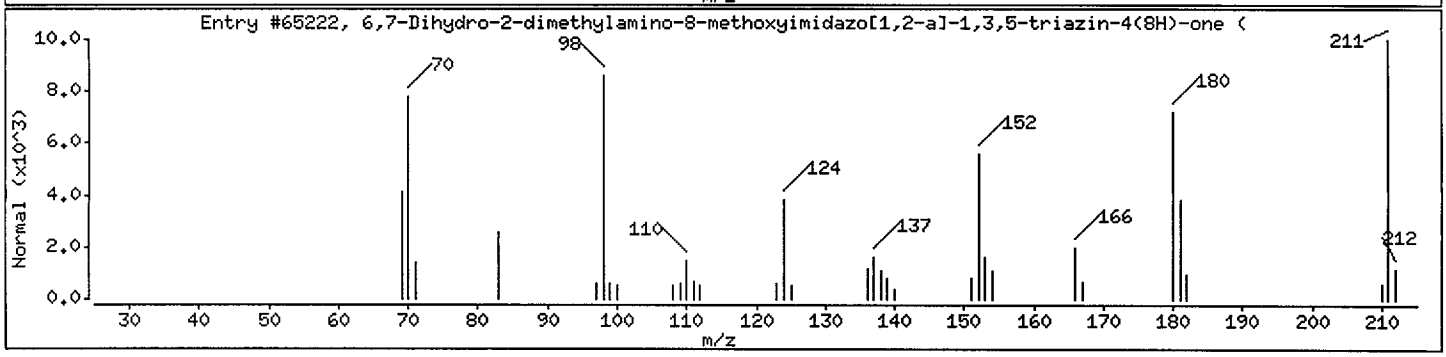
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Proflavine	92-62-6	NIST05.l	63641	10	C13H11N3	209
N-[4-(2-Hydroxyethylthio)phenyllacetamid	40179-29-1	NIST05.l	64856	10	C10H13NO2S	211
6,7-Dihydro-2-dimethylamino-8-methoxyimi	79845-30-0	NIST05.l	65222	9	C8H13N5O2	211









Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

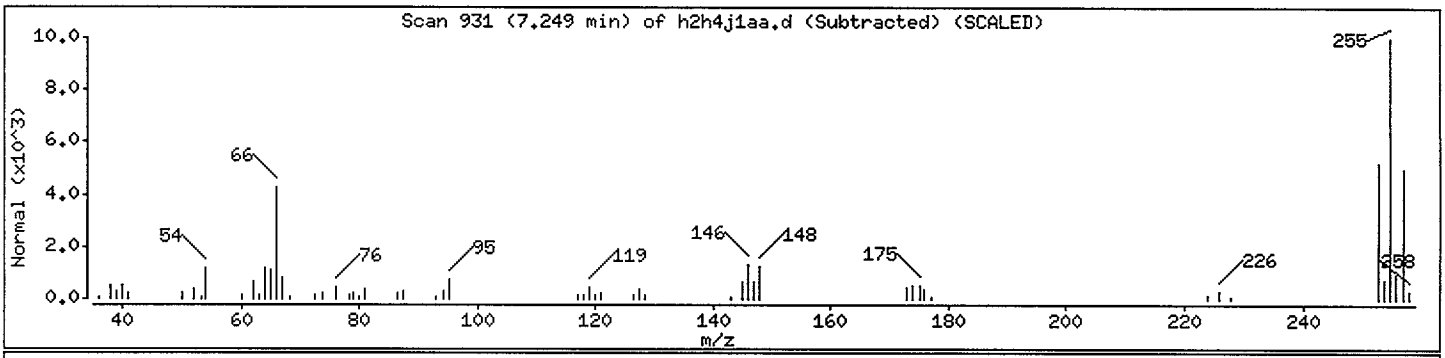
Volume Injected (uL): 1.0

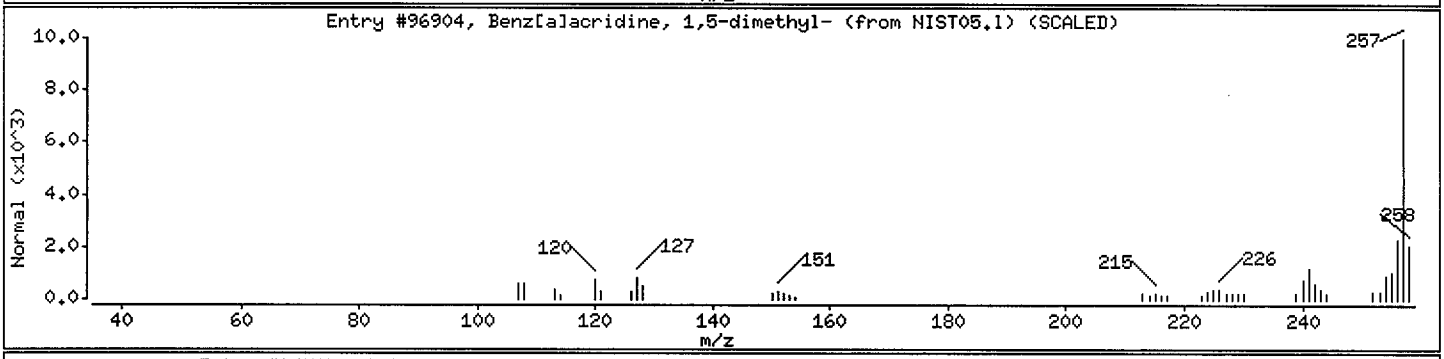
Operator: 60841

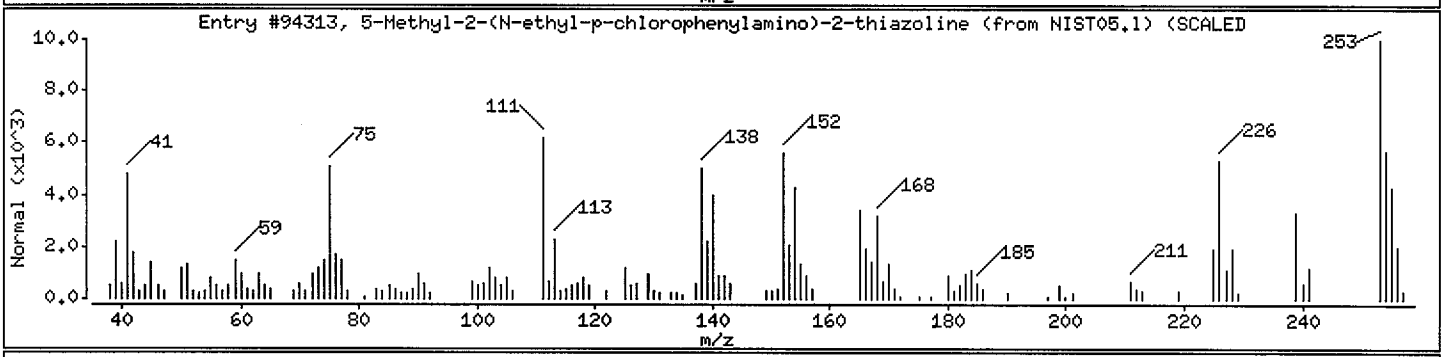
Column phase: ZB-5

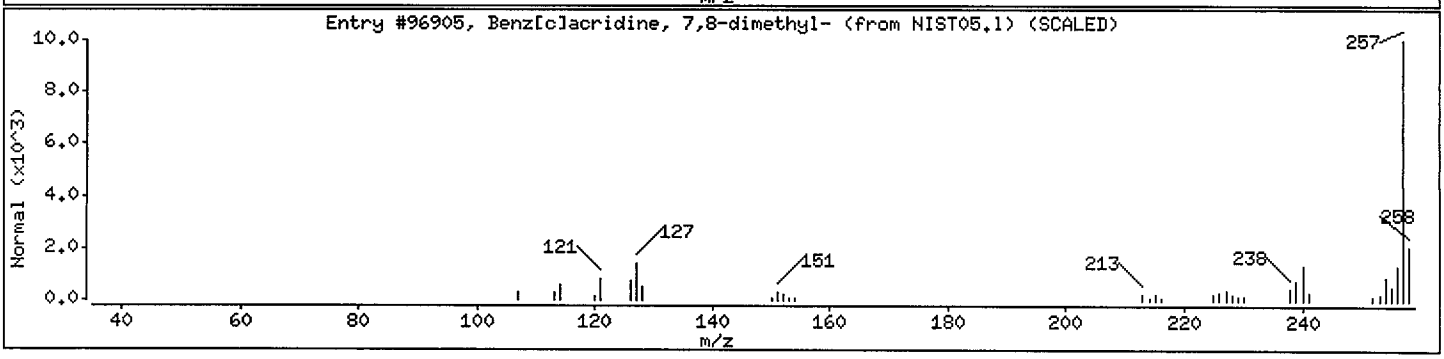
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benz[a]acridine, 1,5-dimethyl-	55030-47-2	NIST05.1	96904	14	C19H15N	257
5-Methyl-2-(N-ethyl-p-chlorophenylamino)	75220-53-0	NIST05.1	94313	10	C12H15ClN2S	254
Benz[c]acridine, 7,8-dimethyl-	3518-01-2	NIST05.1	96905	10	C19H15N	257









Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

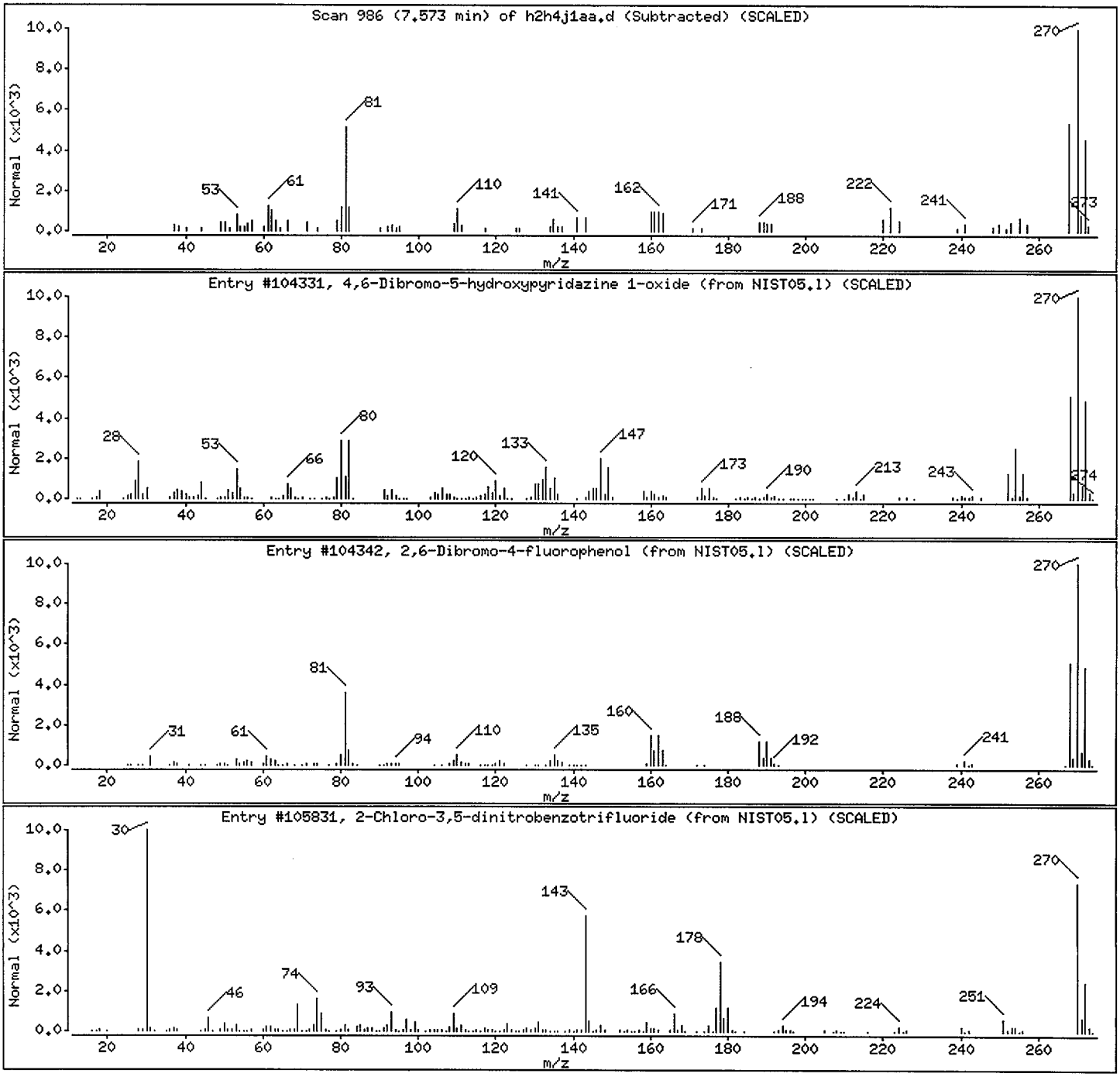
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4,6-Dibromo-5-hydroxypyridazine 1-oxide	19971-61-0	NIST05.l	104331	50	C4H2Br2N2O2	268
2,6-Dibromo-4-fluorophenol	344-20-7	NIST05.l	104342	38	C6H3Br2FO	268
2-Chloro-3,5-dinitrobenzotrifluoride	392-95-0	NIST05.l	105831	32	C7H2ClF3N2O4	270



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

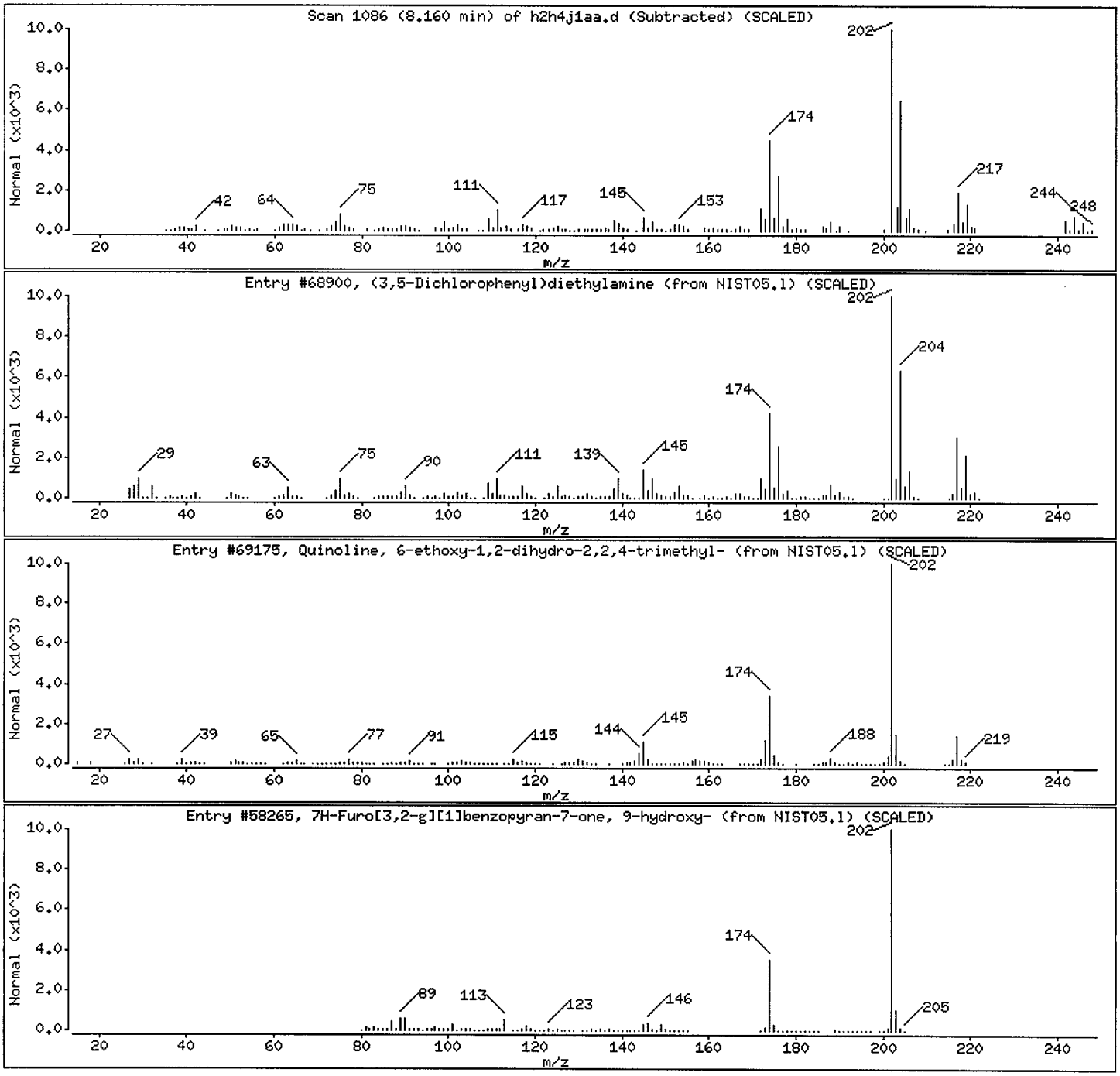
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(3,5-Dichlorophenyl)diethylamine	1000306-63-5	NIST05.1	68900	91	C10H13Cl2N	217
Quinoline, 6-ethoxy-1,2-dihydro-2,2,4-tr	91-53-2	NIST05.1	69175	49	C14H19NO	217
7H-Furo[3,2-g][1]benzopyran-7-one, 9-hyd	2009-24-7	NIST05.1	58265	43	C11H6O4	202



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

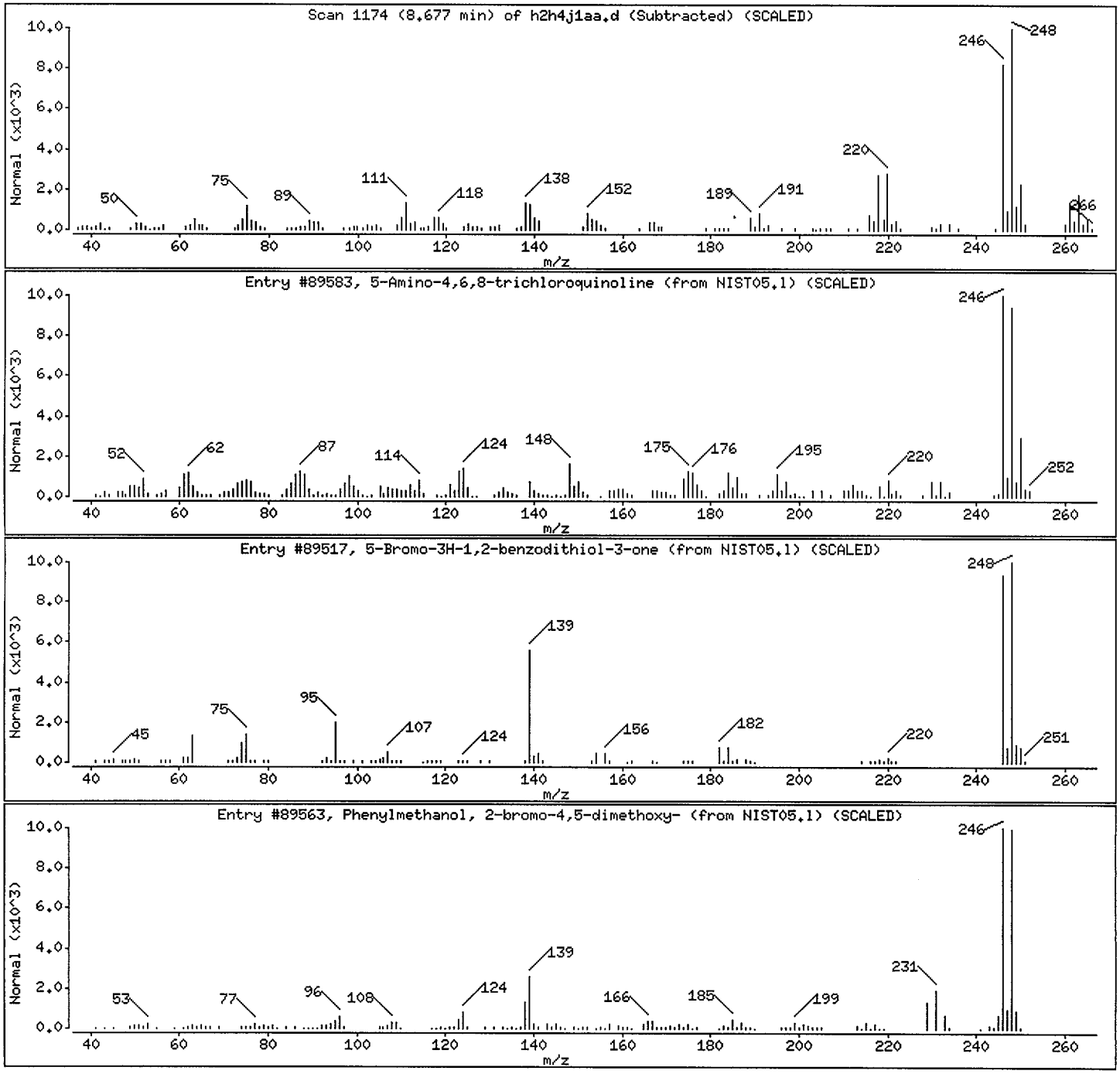
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Amino-4,6,8-trichloroquinoline	1000252-19-9	NIST05.1	89583	64	C9H5Cl3N2	246
5-Bromo-3H-1,2-benzodithiol-3-one	115475-20-2	NIST05.1	89517	58	C7H3BrOS2	246
Phenylmethanol, 2-bromo-4,5-dimethoxy-	54370-00-2	NIST05.1	89563	52	C9H11BrO3	246



Data File: /var/chem/gcms/md.i/D041806.b/h2h4j1aa.d

Date : 18-APR-2006 22:44

Client ID: G-3087-R3-MAKE-UP W

Instrument: md.i

Sample Info: H2H4J1AA,,0,,,,

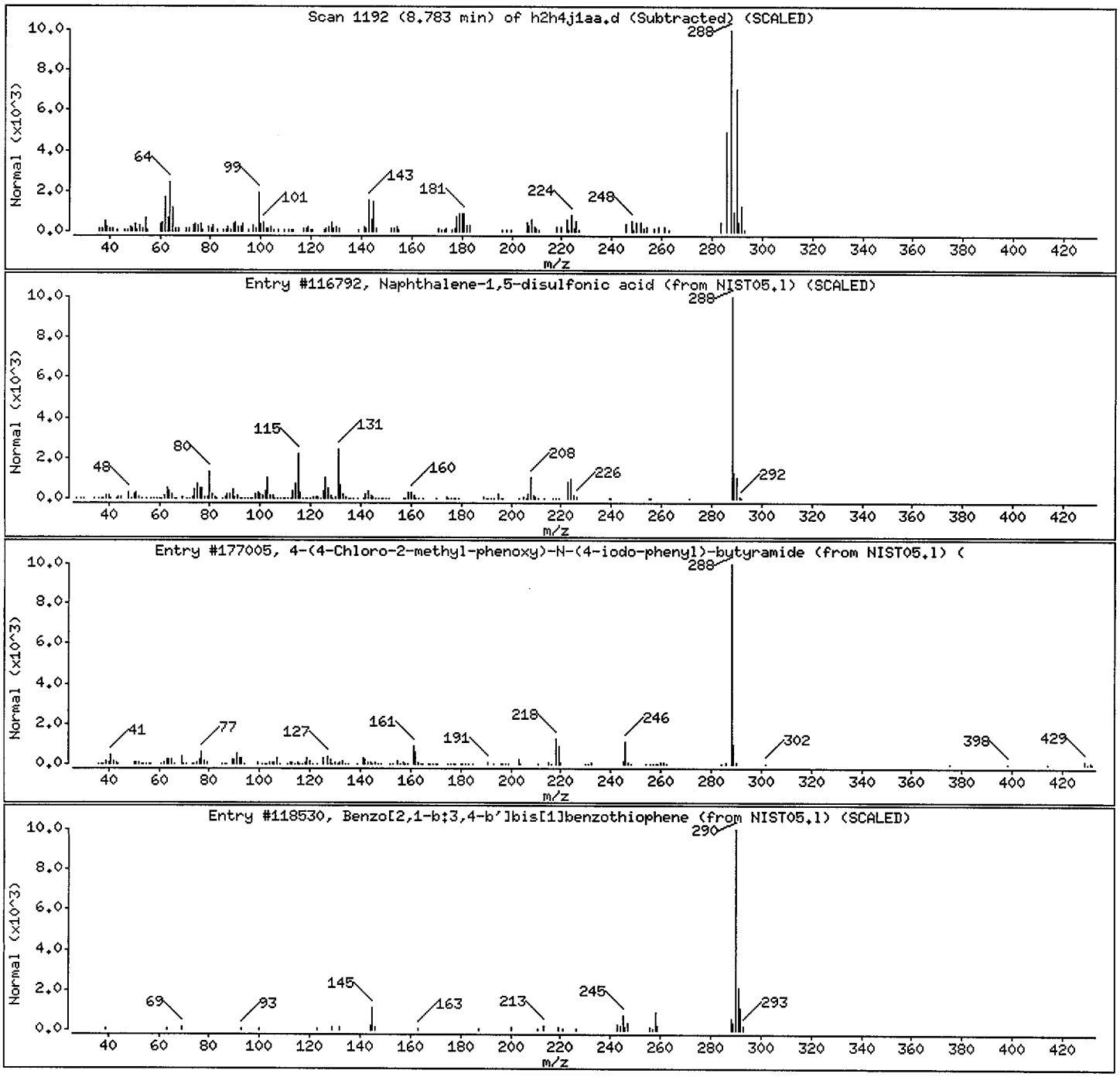
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene-1,5-disulfonic acid	81-04-9	NIST05.1	116792	12	C10H8O6S2	288
4-(4-Chloro-2-methyl-phenoxy)-N-(4-iodo-	101906-66-5	NIST05.1	177005	10	C17H17ClINO2	429
Benzo[2,1-b:3,4-b']bis[1]benzothiophene	222-24-2	NIST05.1	118530	10	C18H10S2	290



Standards Data

STL Knoxville Semivolatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method 8270C - KNOX-MS-0016, Rev 6 and Method TO-13A Mod – KNOX-MS-0017, Rev 1

Analysis Date:	3/9/06	Instrument:	MD	ICAL Batch/Scan Name:	D030906I	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ☐
1. Did DFTPP meet tune criteria?		✓			✓
2. Was DDT breakdown ≤20% & benzidine tailing ≤3 and PCP tailing ≤5?		✓			✓
3. Were all standards injected within 12 hr of DFTPP?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
6. Was low level standard at or below RL?		✓			✓
7. Was the primary ion used for all compounds?		✓		☐ Secondary ion used due to interferences for: _____	✓
8. Are the average RFs for SPCCs ≥ 0.050? (8270C)		✓			✓
9. Do the RRFs meet minimum criteria? (TO-13A Mod)		✓			✓
10. Are %RSD ≤30% for CCCs? (8270C)		✓			✓
11. Are %RSD≤ 30% for all target analytes? (TO-13A Mod)		✓			✓
12. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
13. If curves were used, is correlation coefficient ≥0.990?		✓			✓
14. At least 6 consecutive points used for quadratic curves?	✓				NA
15. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.	✓				NA
16. Is the "Y" intercept less than ½ the RL for each curve?		✓			✓
17. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
18. Were all peaks identified automatically? *If not, list analytes:* _____		✓			✓
19. Are ICAL start and end dates/times correct on ICAL summary?		✓			✓
20. Elution order checked on isomeric pairs?					
• 1,4-dichlorobenzene-d4 / 1,2-dichlorobenzene-d4		✓			✓
• aniline / bis(2-chloroethyl)ether		✓			✓
• 1,3- , 1,4- , 1,2-dichlorobenzene		✓			✓
• benzyl alcohol / 2-methylphenol / 4-methylphenol		✓			✓
• 2,4,6- and 2,4,5-trichlorophenol		✓			✓
• phenanthrene / anthracene		✓			✓
• fluoranthene / pyrene		✓			✓
• benzo(a)anthracene / chrysene		✓			✓
• bis(2-ethylhexyl)/di-n-octyl phthalate		✓			✓
• benzo(b)fluoranthene / benzo(k)fluoranthene		✓			✓
• indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene		✓			✓
• safrole/1-chloronaphthalene/2- chloronaphthalene		✓			✓
• 1-/2-naphthylamine		✓			✓
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓			NCM #: _____	NA
22. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, curves, followed by Quant reports, chromatograms and manual integrations, in order from low to high standard.		✓			✓
23. Was the 2nd source calibration verification standard within ± 30% recovery and are results in ICAL folder?(25%DOD)		✓			✓

Analyst: KRM	Date: 3/9/06	2nd Level Reviewer : [signature]	Date: 03/10/06
Comments: A9 Curve added 3/9/06		Comments:	

STL Knoxville Semivolatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method 8270C - KNOX-MS-0016, Rev 6 and Method TO-13A Mod – KNOX-MS-0017, Rev 1

Analysis Date:	2/17/06	Instrument:	MD	ICAL Batch/Scan Name:	D021706 I	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ☐
1. Did DFTPP meet tune criteria?		✓			✓
2. Was DDT breakdown ≤20% & benzidine tailing ≤3 and PCP tailing ≤5?		✓			✓
3. Were all standards injected within 12 hr of DFTPP?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
6. Was low level standard at or below RL?		✓			✓
7. Was the primary ion used for all compounds?		✓		☐ Secondary ion used due to interferences for:	✓
8. Are the average RFs for SPCCs ≥ 0.050? (8270C)		✓			✓
9. Do the RRFs meet minimum criteria? (TO-13A Mod)		✓			✓
10. Are %RSD ≤30% for CCCs? (8270C)		✓			✓
11. Are %RSD≤ 30% for all target analytes? (TO-13A Mod)		✓			✓
12. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
13. If curves were used, is correlation coefficient ≥0.990?		✓			✓
14. At least 6 consecutive points used for quadratic curves?	✓				NA
15. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.	✓				NA
16. Is the "Y" intercept less than ½ the RL for each curve?		✓			✓
17. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
18. Were all peaks identified automatically? *If not, list analytes:*		✓			
19. Are ICAL start and end dates/times correct on ICAL summary?					✓
20. Elution order checked on isomeric pairs?					
• 1,4-dichlorobenzene-d4 / 1,2-dichlorobenzene-d4		✓			✓
• aniline / bis(2-chloroethyl)ether		✓			✓
• 1,3- , 1,4- , 1,2-dichlorobenzene		✓			✓
• benzyl alcohol / 2-methylphenol / 4-methylphenol		✓			✓
• 2,4,6- and 2,4,5-trichlorophenol		✓			✓
• phenanthrene / anthracene		✓			✓
• fluoranthene / pyrene		✓			✓
• benzo(a)anthracene / chrysene		✓			✓
• bis(2-ethylhexyl)/di-n-octyl phthalate		✓			✓
• benzo(b)fluoranthene / benzo(k)fluoranthene		✓			✓
• indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene		✓			✓
• safrole/1-chloronaphthalene/2- chloronaphthalene	✓				NA
• 1-/2-naphthylamine	✓				NA
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓			NCM #:	NA
22. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, curves, followed by Quant reports, chromatograms and manual integrations, in order from low to high standard.		✓			✓
23. Was the 2nd source calibration verification standard within ± 30% recovery and are results in ICAL folder?(25%DOD)		✓			✓

Analyst: KRM	Date: 2/17/06	2nd Level Reviewer : [illegible]	Date: 02/20/06
Comments: 8270 curve added to AQ on 2/17/06.		Comments:	

STL Knoxville
Instrument MD Run/Maintenance Log

Preventive Maintenance Performed ☐ NA ☑ INJ **Date/Time Verified** ☑

Target Batch	D021706 I			Date	2/17/06
ICAL Batch	↓			Analyst	KRM
IS #1	(8270) 61524			Internal Std ID*	EM2252

* was added to all sample extracts at 3 ul per 300 ul unless noted. Instrument injection volume is 1 ul unless otherwise noted.

Lot	Filename	Time	Dil.	Matrix	Batch	Comments
Tune	DFOB17I	1103	—	EM2258A	—	
8270 ICAL	ICOB178	1114	—	EM2176A	—	200 8270.sub
↓	ICOB175	1137	—	EM2196B	—	120 8270dxnC13.sub
	ICOB174	1200	—	EM2176C	—	60 ↓
	ICOB173	1224	—	EM2176D	—	40
	ICOB172	1247	—	EM2176E	—	25
	ICOB171	1310	—	EM2176F	—	10
	ICOB177	1333	—	EM2176G	—	2 low.sub
8270 2nd Source	ICVOB17	1357	—	EM2272	—	60 8270dxnC13.sub
BLK	HXJTN1AA	1420	—	Soil	6047071	8270.sub
LCS	HXJTN1AC	1443	—	↓	↓	↓
H6B160102	HXJRR1AC	1506	—			
↓	HXJRV1AC	1530	—			
	HXJRW1AC	1553	—			
	HXJRT1AC	1616	1/5			
MS	HXJRR1AD	1640	—			
↓ MSD	HXJRR1AE	1703	—	↓	↓	↓
—	Inst BLK1	1726	—	—	—	—
BLK	HXMJ61AA	1749	—	Soil	6048211	8270.sub
LCS	HXMJ61AC	1812	—	↓	↓	↓
H6B170142	HXMHP1AC	1835	—			
↓	HXMHQ1AC	1858	1/3			elevs
	HXMJA1AC	1921	—			
	HXMJH1AC	1944	—			
MS	HXMHP1AD	2007	—			
↓ MSD	HXMHP1AE	2030	—	↓	↓	↓
—	Inst BLK 2	2053	—	—	—	—
			2/18/06			

Comments:

STL Knoxville
Instrument MD Run/Maintenance Log

Preventive Maintenance Performed ☐ NA ☑ INJ / GOLD SEAL **Date/Time Verified** ☑

Target Batch	D030906 I			Date	3/9/06
ICAL Batch	D030906 I			Analyst	KRM
IS #1	(A9) 50110			Internal Std ID*	EM2276

* was added to all sample extracts at 3 ul per 300 ul unless noted. Instrument injection volume is 1 ul unless otherwise noted.

Lot	Filename	Time	Dil.	Matrix	Batch	Comments
Tune	DFDC09I	1247	–	EM2258A	–	
A9 ICAL	A9DC098	1259	–	EM2199A	–	200 appdx9.sub
	A9DC095	1323	–	EM2199B	–	120
	A9DC094	1347	–	EM2199C	–	60
	A9DC093	1411	–	EM2199D	–	40
	A9DC092	1436	–	EM2199E	–	25
	A9DC091	1500	–	EM2199F	–	10
2nd Source	A9UDC09	1524	–	EM2237	–	60

KRM 3/9/06

Comments: _____

Data File: /chem/gcms/md.i/D021706I.b/dfdb17i.d

Date : 17-FEB-2006 11:03

Client ID: Tune

Instrument: md.i

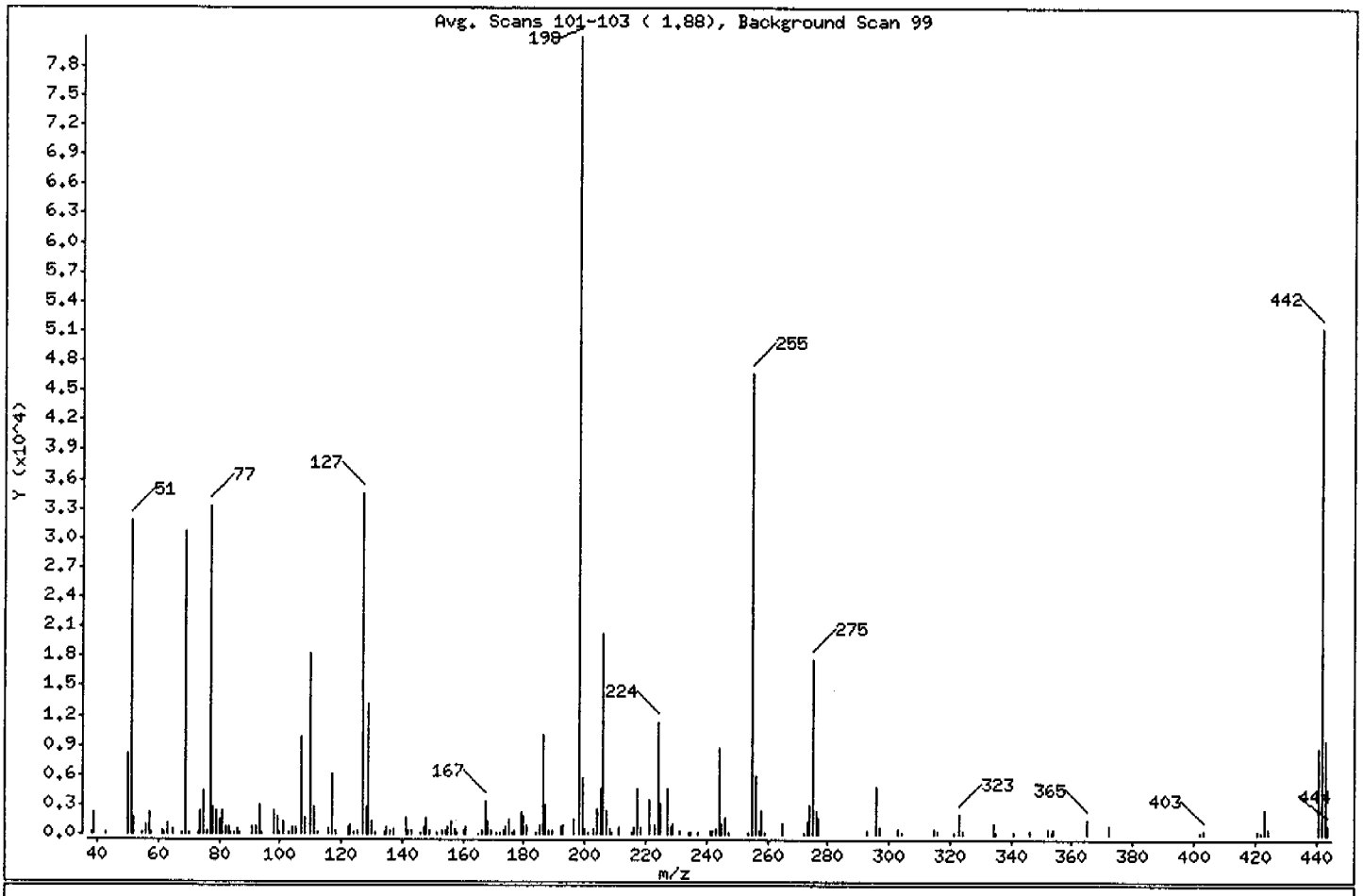
Sample Info: DFDB17I,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

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	39.38
68	Less than 1.99% of mass 69	0.23 (0.60)
69	Present, but less than mass 198	37.91
70	Less than 1.99% of mass 69	0.24 (0.63)
127	40.00 - 60.00% of mass 198	42.70
197	Less than 0.99% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.16
275	10.00 - 30.00% of mass 198	21.88
365	1.01 - 100.00% of mass 198	1.86
441	Present, but less than mass 443	10.81
442	40.01 - 110.00% of mass 198	63.37
443	17.00 - 23.00% of mass 442	11.63 (18.35)

Data File: /chem/gcms/md.i/D021706I.b/dfdb17i.d

Date : 17-FEB-2006 11:03

Client ID: Tune

Instrument: md.i

Sample Info: DFDB17I,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Data File: dfdb17i.d

Spectrum: Avg. Scans 101-103 (1.88), Background Scan 99

Location of Maximum: 198.00

Number of points: 180

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	206	111.00	2714	179.00	2145	254.00	171
39.00	2246	112.00	194	180.00	1823	255.00	46704
43.00	204	116.00	569	181.00	864	256.00	6035
50.00	8102	117.00	6104	184.00	212	257.00	425
51.00	31880	118.00	324	185.00	973	258.00	2488
52.00	1640	122.00	715	186.00	10102	259.00	206
55.00	210	123.00	871	187.00	2894	265.00	1194
56.00	928	124.00	187	188.00	414	272.00	246
57.00	2304	125.00	308	189.00	396	273.00	1362
58.00	195	127.00	34568	192.00	728	274.00	2937
61.00	385	128.00	2760	193.00	948	275.00	17712
62.00	259	129.00	13237	196.00	1555	276.00	2331
63.00	1084	130.00	1283	198.00	80960	277.00	1590
65.00	559	131.00	232	199.00	5794	293.00	284
68.00	184	134.00	230	200.00	540	296.00	4924
69.00	30688	135.00	715	201.00	240	297.00	660
70.00	193	136.00	354	203.00	470	303.00	550
73.00	209	137.00	625	204.00	2585	304.00	171
74.00	2480	141.00	1629	205.00	4674	315.00	548
75.00	4389	142.00	445	206.00	20264	316.00	451
76.00	446	143.00	282	207.00	2472	321.00	198
77.00	33288	146.00	224	208.00	579	323.00	1978
78.00	2751	147.00	796	209.00	184	324.00	373
79.00	2453	148.00	1615	211.00	755	334.00	1144
80.00	1405	149.00	332	215.00	240	335.00	170
81.00	2359	151.00	229	216.00	728	341.00	200
82.00	796	153.00	294	217.00	4670	346.00	457
83.00	731	154.00	301	218.00	777	352.00	511
84.00	179	155.00	724	221.00	3552	353.00	239
85.00	169	156.00	1302	223.00	983	354.00	613
86.00	574	157.00	525	224.00	11363	365.00	1503
87.00	261	158.00	224	225.00	3108	372.00	1016
91.00	740	160.00	317	227.00	4671	402.00	190
92.00	792	161.00	814	228.00	783	403.00	407
93.00	3032	165.00	58	229.00	1089	421.00	387

Data File: /chem/gcms/md.i/D021706I.b/dfdb17i.d

Date : 17-FEB-2006 11:03

Client ID: Tune

Instrument: md.i

Sample Info: DFDB17I,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Data File: dfdb17i.d

Spectrum: Avg. Scans 101-103 (1.88), Background Scan 99

Location of Maximum: 198.00

Number of points: 180

m/z	Y	m/z	Y	m/z	Y	m/z	Y
94.00	173	166.00	369	231.00	384	422.00	220
98.00	2466	167.00	3390	234.00	190	423.00	2549
99.00	1886	168.00	1307	235.00	259	424.00	473
100.00	218	169.00	369	237.00	202	441.00	8756
101.00	1260	171.00	178	241.00	436	442.00	51304
103.00	275	172.00	277	242.00	388	443.00	9413
104.00	660	173.00	362	243.00	646	444.00	976
105.00	778	174.00	752	244.00	8675		
107.00	9888	175.00	1398	245.00	1166		
108.00	1753	176.00	221	246.00	1752		
110.00	18216	177.00	373	247.00	253		

Data File: /chem/gcms/md.i/D021706I.b/dfdb17i.d

Date : 17-FEB-2006 11:03

Client ID: Tune

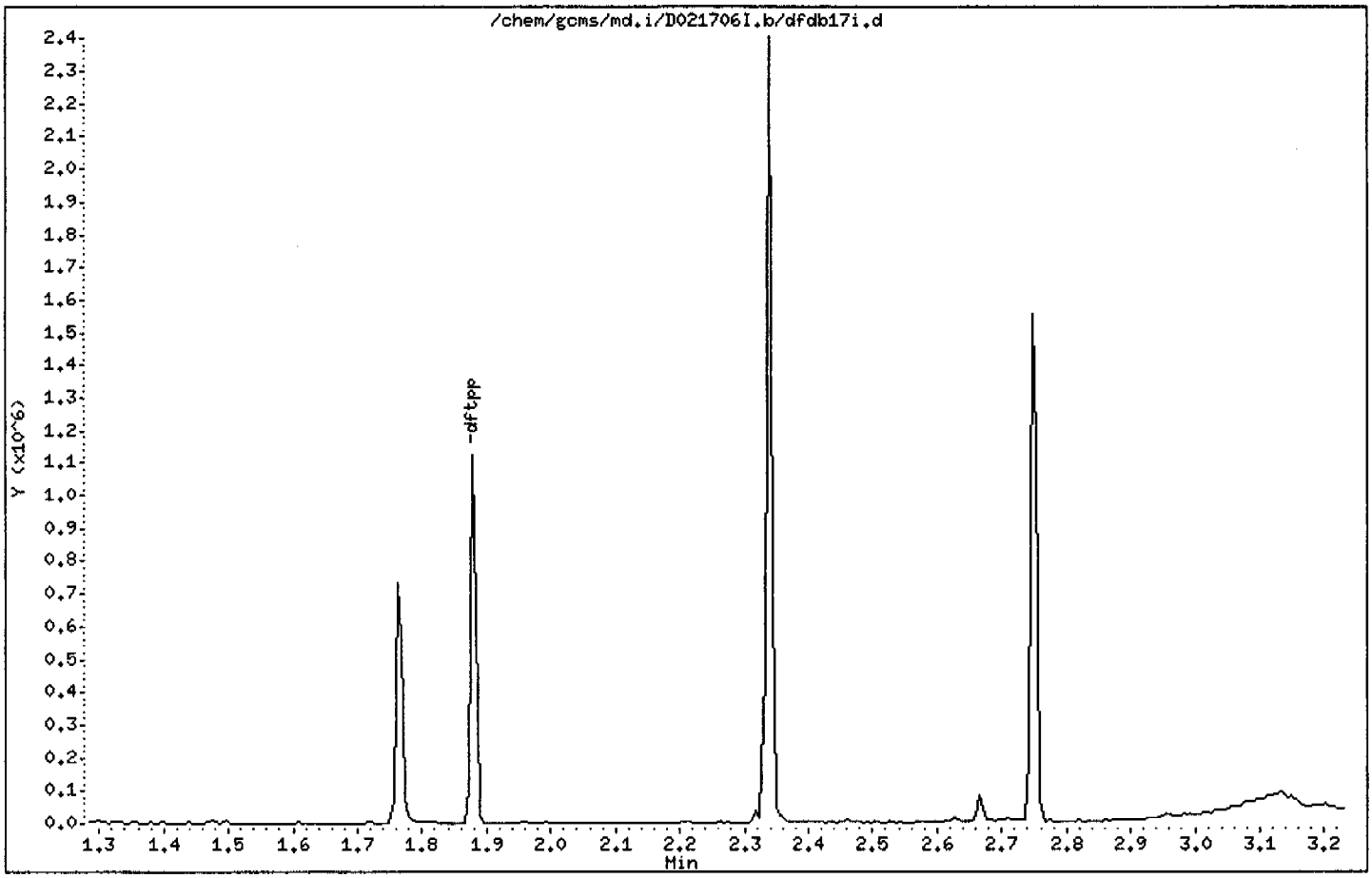
Instrument: md.i

Sample Info: DFDB17I,,3,,DFTPP,

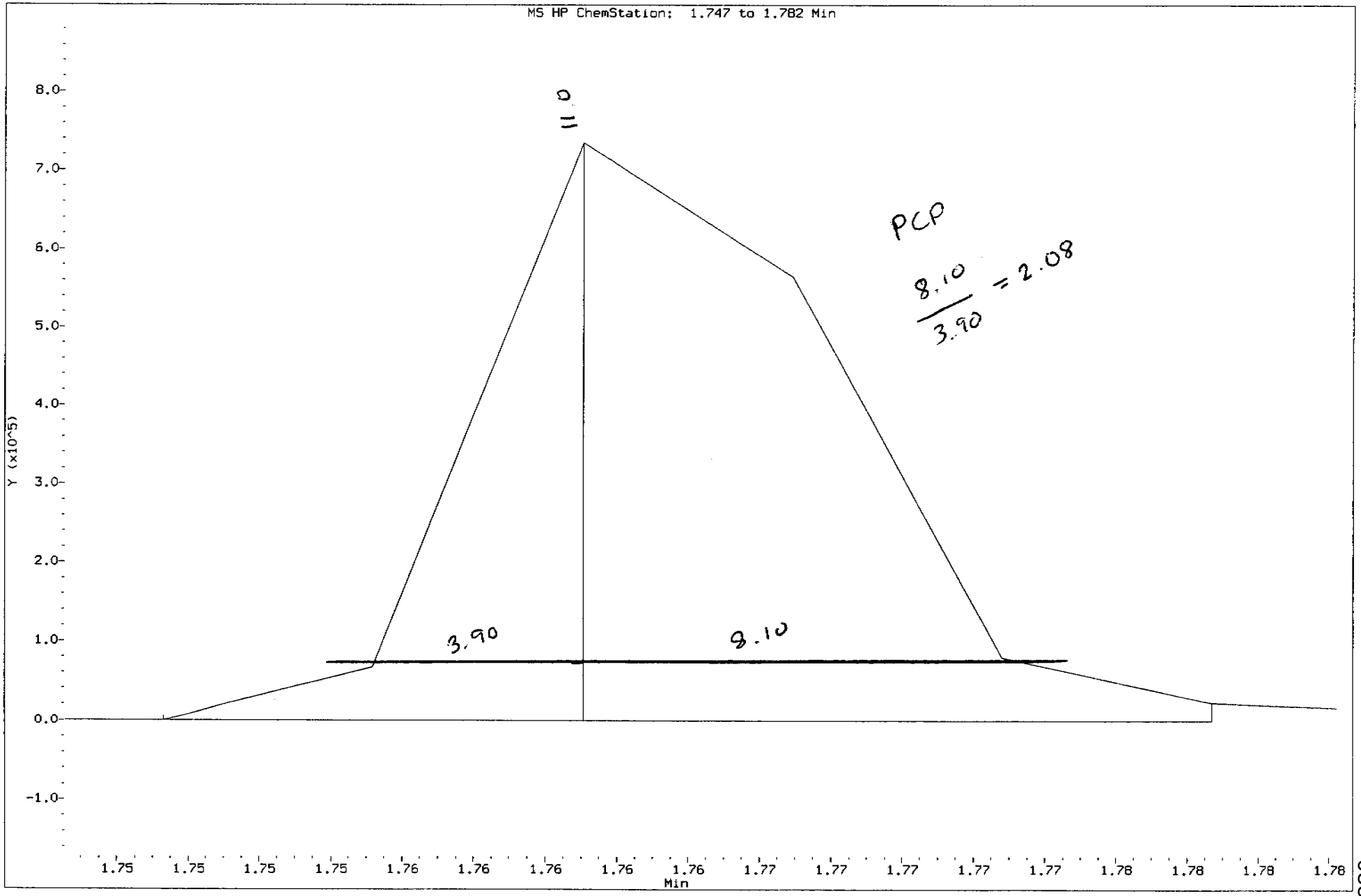
Operator: 60841

Column phase: ZB-5

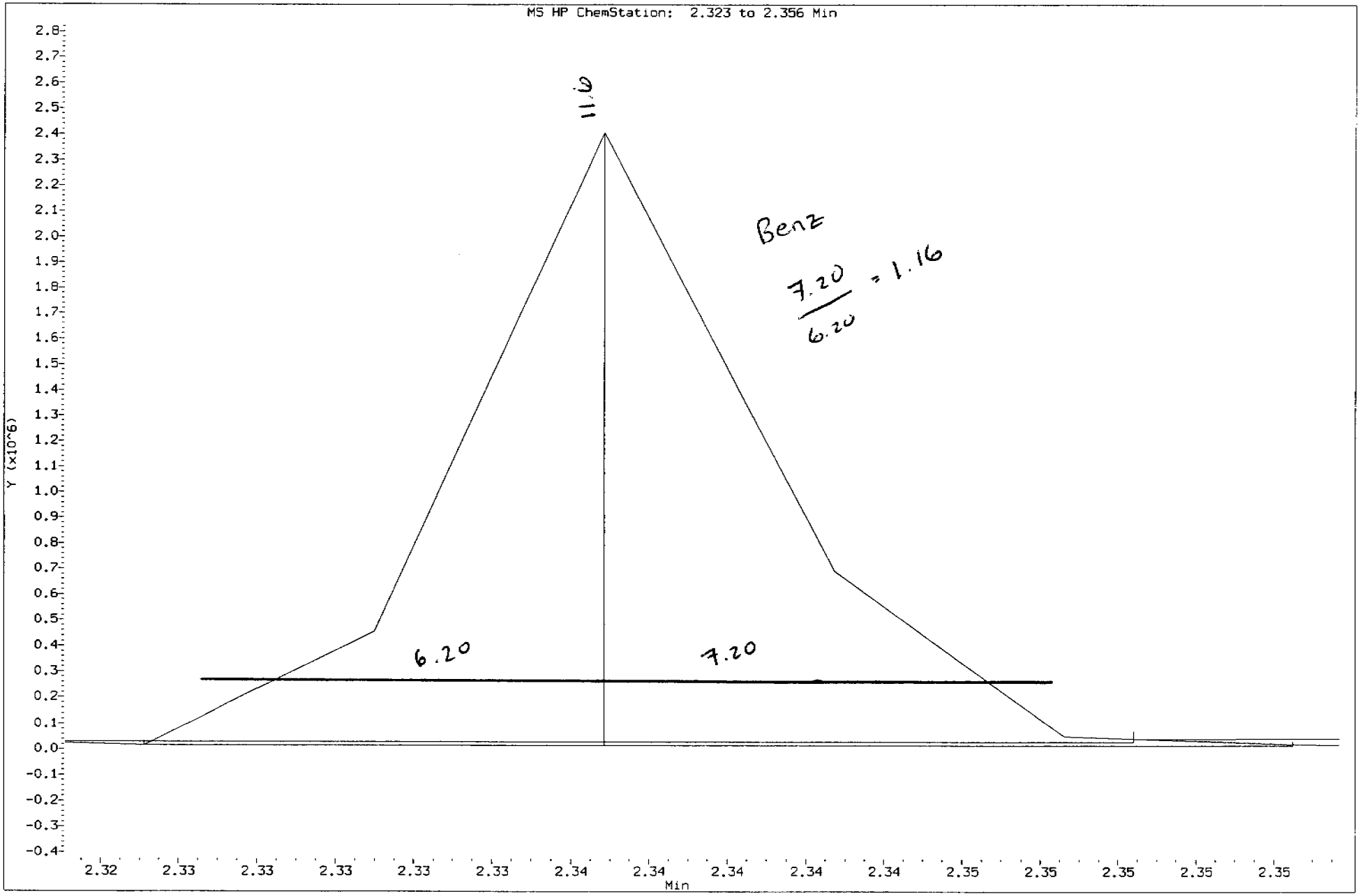
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/dfdb17i.d
Injection Date: 17-FEB-2006 11:03
Instrument: md.i
Client Sample ID: Tune



Data File: /var/chem/gcms/md.i/D021706I.b/dfdb17i.d
Injection Date: 17-FEB-2006 11:03
Instrument: md.i
Client Sample ID: Tune



Data File: /chem/gcms/md.i/D030906I.b/dfdc09i.d

Date : 09-MAR-2006 12:47

Client ID: Tune

Instrument: md.i

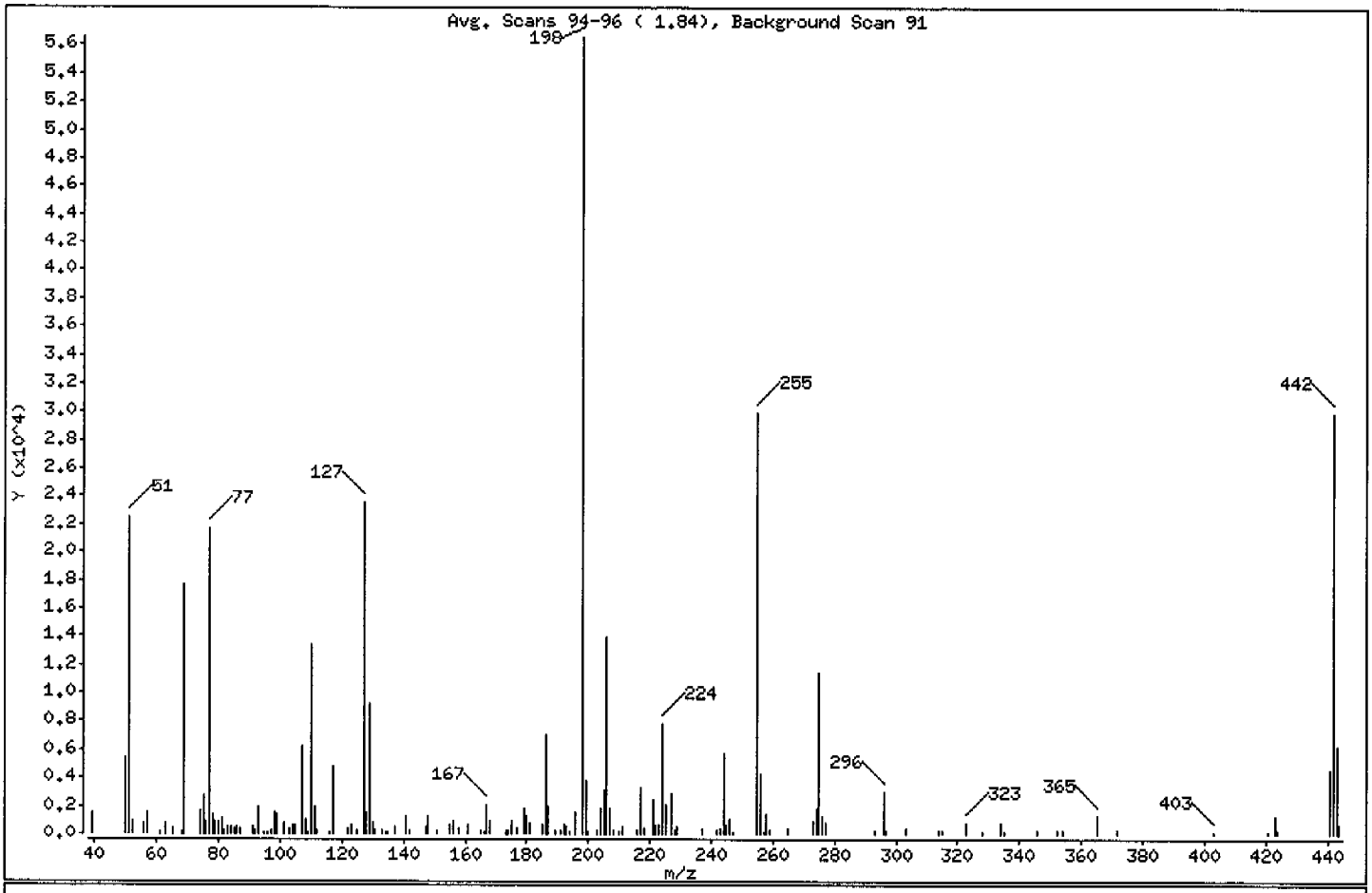
Sample Info: DFDC09I,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

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	39.74
68	Less than 1.99% of mass 69	0.34 (1.09)
69	Present, but less than mass 198	31.33
70	Less than 1.99% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.69
197	Less than 0.99% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	20.20
365	1.01 - 100.00% of mass 198	2.20
441	Present, but less than mass 443	7.96
442	40.01 - 110.00% of mass 198	52.77
443	17.00 - 23.00% of mass 442	10.96 (20.78)

Data File: /chem/gcms/md.i/D030906I.b/dfdc09i.d

Date : 09-MAR-2006 12:47

Client ID: Tune

Instrument: md.i

Sample Info: DFDC09I,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Data File: dfdc09i.d

Spectrum: Avg. Scans 94-96 (1.84), Background Scan 91

Location of Maximum: 198.00

Number of points: 149

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1572	108.00	990	181.00	752	247.00	192
50.00	5409	109.00	188	185.00	609	255.00	29944
51.00	22488	110.00	13429	186.00	7022	256.00	4334
52.00	929	111.00	1897	187.00	1913	257.00	173
56.00	739	112.00	206	189.00	231	258.00	1478
57.00	1593	116.00	168	191.00	217	259.00	247
61.00	188	117.00	4762	192.00	676	265.00	405
63.00	754	122.00	404	193.00	531	273.00	888
65.00	441	123.00	713	194.00	188	274.00	1866
68.00	193	125.00	203	196.00	1597	275.00	11432
69.00	17728	127.00	23592	198.00	56584	276.00	1250
74.00	1702	128.00	1575	199.00	3832	277.00	748
75.00	2794	129.00	9185	200.00	174	293.00	216
76.00	933	130.00	746	203.00	202	296.00	3000
77.00	21776	131.00	197	204.00	1804	297.00	275
78.00	1401	133.00	200	205.00	3085	303.00	389
79.00	882	134.00	176	206.00	13971	314.00	197
80.00	967	135.00	135	207.00	1822	315.00	307
81.00	1231	137.00	480	208.00	240	323.00	820
82.00	282	141.00	1346	210.00	175	328.00	188
83.00	575	142.00	262	211.00	504	334.00	719
84.00	477	147.00	495	216.00	208	335.00	168
85.00	382	148.00	1271	217.00	3239	346.00	237
86.00	486	151.00	247	218.00	406	352.00	198
87.00	421	155.00	612	221.00	2465	354.00	223
91.00	520	156.00	854	222.00	652	365.00	1245
92.00	206	158.00	378	223.00	641	372.00	238
93.00	1996	161.00	643	224.00	7767	403.00	177
95.00	172	165.00	276	225.00	2030	421.00	193
96.00	174	166.00	180	227.00	2912	423.00	1346
97.00	222	167.00	2111	228.00	220	424.00	202
98.00	1513	168.00	970	229.00	557	441.00	4502
99.00	1369	173.00	263	237.00	389	442.00	29856
101.00	840	174.00	286	242.00	258	443.00	6204
103.00	436	175.00	904	243.00	417	444.00	616

Data File: /chem/gcms/md.i/D030906I.b/dfdc09i.d

Date : 09-MAR-2006 12:47

Client ID: Tune

Instrument: md.i

Sample Info: DFDC09I,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Data File: dfdc09i.d

Spectrum: Avg. Scans 94-96 (1.84), Background Scan 91

Location of Maximum: 198.00

Number of points: 149

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	630	177.00	327	244.00	5748		
105.00	625	179.00	1791	245.00	643		
107.00	6249	180.00	1246	246.00	1030		

Data File: /chem/gcms/md.i/D030906I.b/dfdc09i.d

Date : 09-MAR-2006 12:47

Client ID: Tune

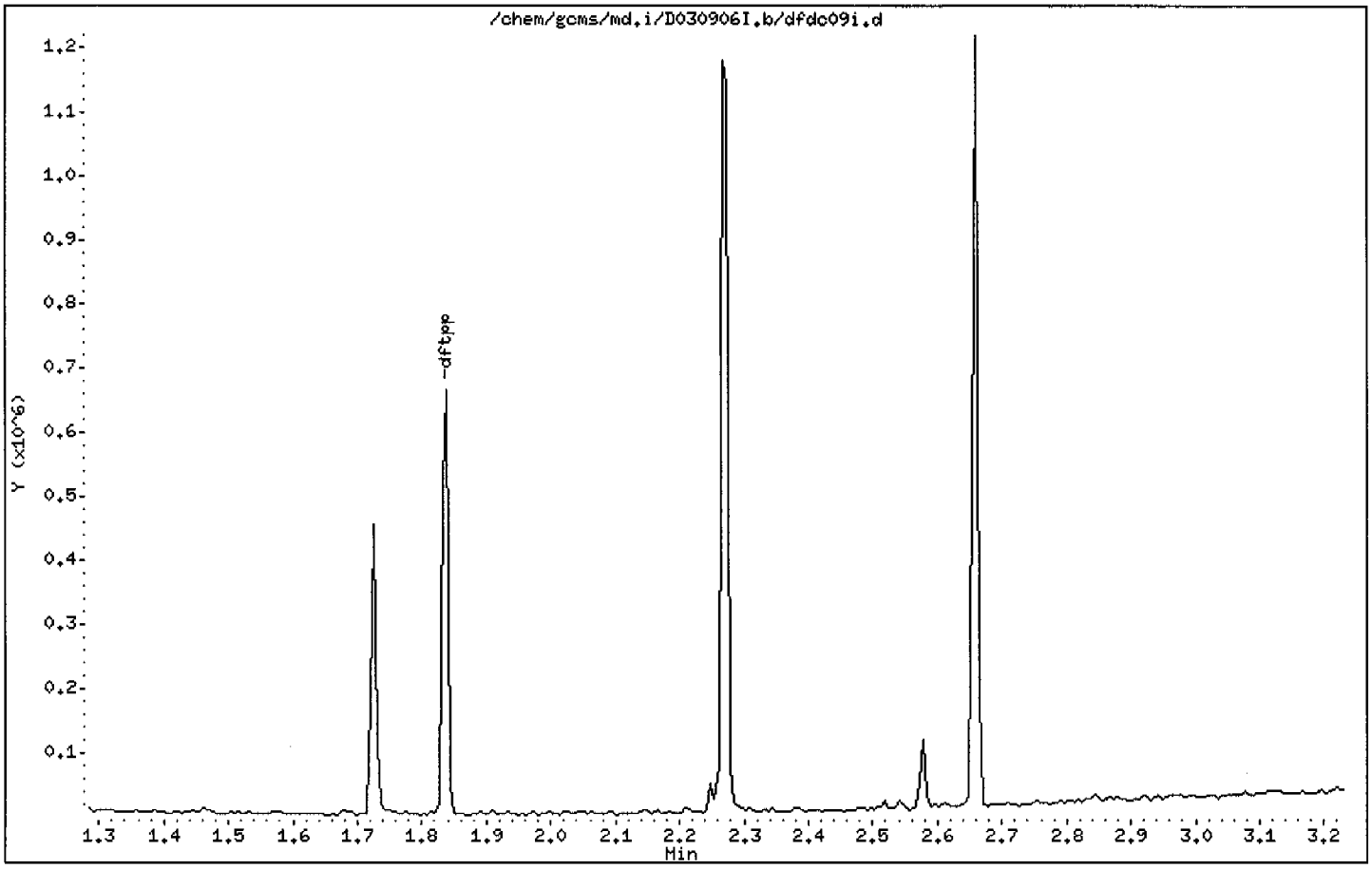
Instrument: md.i

Sample Info: DFDC09I,,3,,DFTPP,

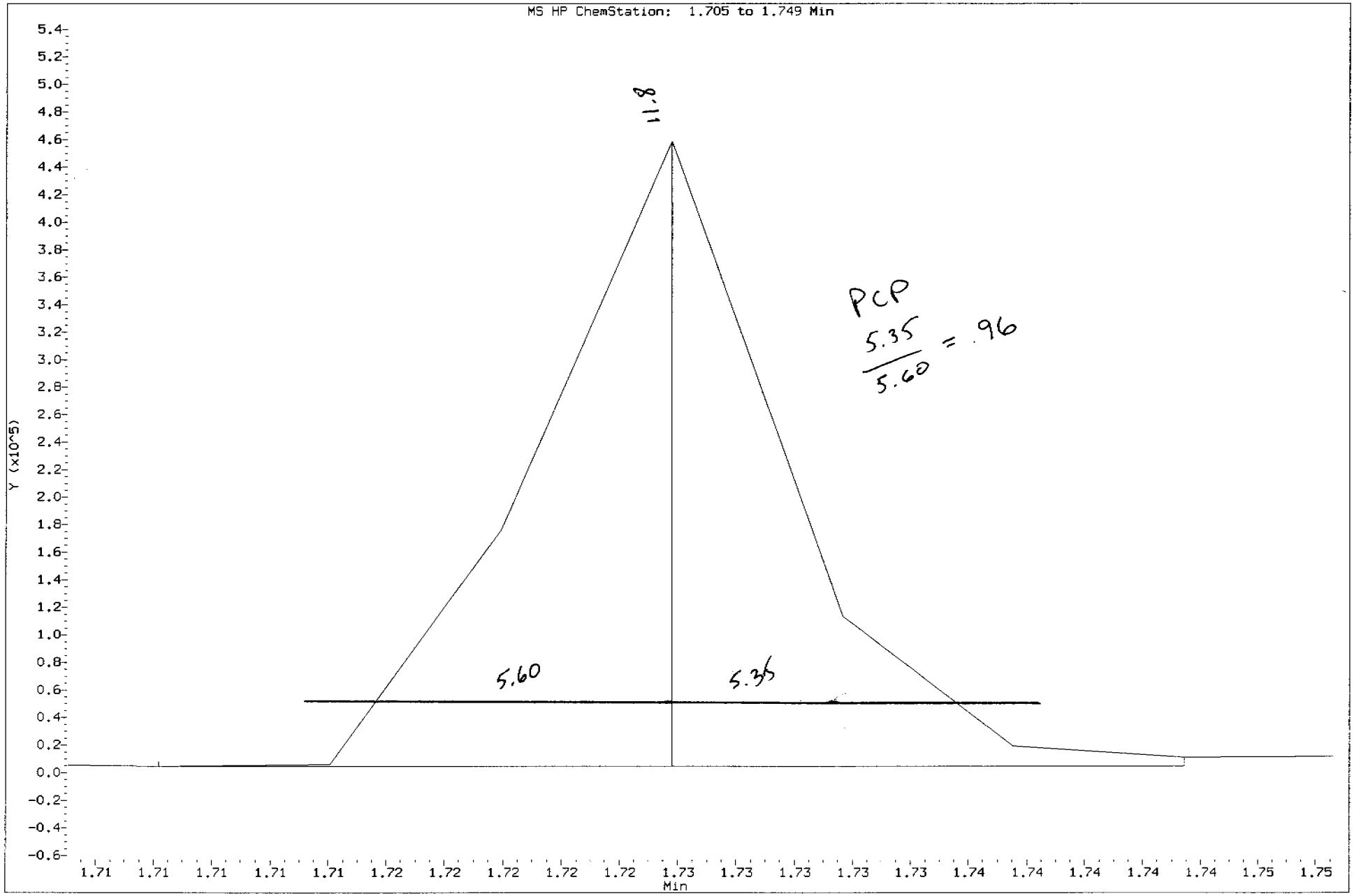
Operator: 60841

Column phase: ZB-5

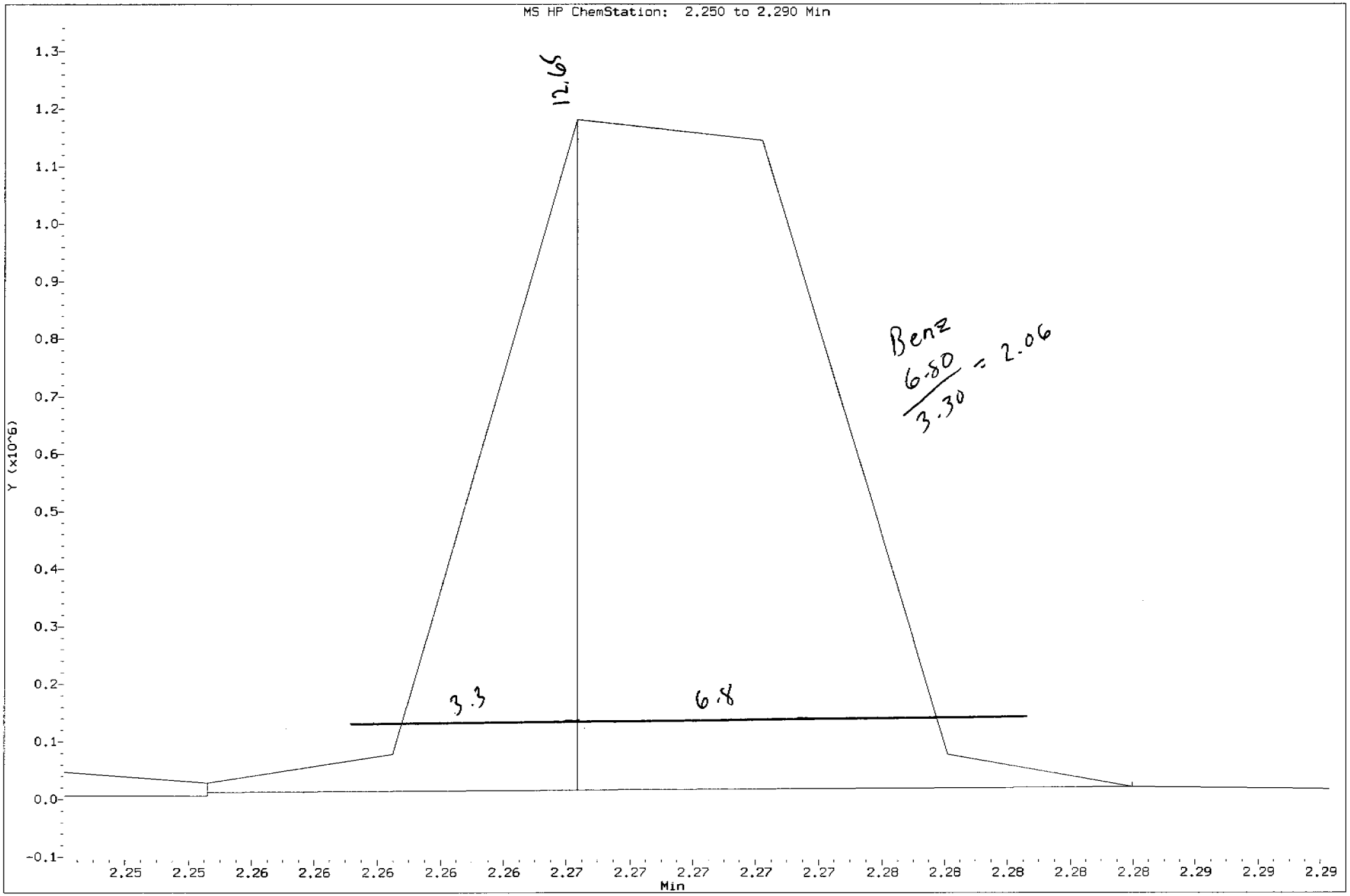
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/dfdc09i.d
Injection Date: 09-MAR-2006 12:47
Instrument: md.i
Client Sample ID: Tune



Data File: /var/chem/gcms/md.i/D030906I.b/dfdc09i.d
Injection Date: 09-MAR-2006 12:47
Instrument: md.i
Client Sample ID: Tune



Report Date: 09-Mar-2006 16:34

Calibration History

Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Start Cal Date: 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 10.00000		
09-MAR-2006 15:00	appdx9	/var/chem/gcms/md.i/D030906I.b/a9dc091.d
17-FEB-2006 13:10	8270dxnC13	/var/chem/gcms/md.i/D021706I.b/icdb171.d
Cal Level: 2 , Cal Amount: 25.00000		
09-MAR-2006 14:36	appdx9	/var/chem/gcms/md.i/D030906I.b/a9dc092.d
17-FEB-2006 12:47	8270dxnC13	/var/chem/gcms/md.i/D021706I.b/icdb172.d
Cal Level: 3 , Cal Amount: 40.00000		
09-MAR-2006 14:11	appdx9	/var/chem/gcms/md.i/D030906I.b/a9dc093.d
17-FEB-2006 12:24	8270dxnC13	/var/chem/gcms/md.i/D021706I.b/icdb173.d
Cal Level: 4 , Cal Amount: 60.00000		
09-MAR-2006 13:47	appdx9	/var/chem/gcms/md.i/D030906I.b/a9dc094.d
17-FEB-2006 12:00	8270dxnC13	/var/chem/gcms/md.i/D021706I.b/icdb174.d
Cal Level: 5 , Cal Amount: 120.00000		
09-MAR-2006 13:23	appdx9	/var/chem/gcms/md.i/D030906I.b/a9dc095.d
17-FEB-2006 11:37	8270dxnC13	/var/chem/gcms/md.i/D021706I.b/icdb175.d
Cal Level: 7 , Cal Amount: 2.00000		
17-FEB-2006 13:33	low	/var/chem/gcms/md.i/D021706I.b/icdb177.d
Cal Level: 8 , Cal Amount: 200.00000		
09-MAR-2006 12:59	appdx9	/var/chem/gcms/md.i/D030906I.b/a9dc098.d
17-FEB-2006 11:14	8270	/var/chem/gcms/md.i/D021706I.b/icdb178.d

Report Date : 09-Mar-2006 16:34

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Calibration File Names:
Level 1: /var/chem/gcms/md.i/D030906I.b/a9dc091.d
Level 2: /var/chem/gcms/md.i/D030906I.b/a9dc092.d
Level 3: /var/chem/gcms/md.i/D030906I.b/a9dc093.d
Level 4: /var/chem/gcms/md.i/D030906I.b/a9dc094.d
Level 5: /var/chem/gcms/md.i/D030906I.b/a9dc095.d
Level 7: /var/chem/gcms/md.i/D021706I.b/icdb177.d
Level 8: /var/chem/gcms/md.i/D030906I.b/a9dc098.d

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
175 1,4-Dioxane	0.45920	0.42017	0.47574	0.43475	0.54557	0.48960					
	+++++						AVRG		0.47084		9.48214
13 N-Nitrosodimethylamine	0.68494	0.68528	0.67087	0.61669	0.68717	+++++					
	0.66027						AVRG		0.66754		4.04893
14 Pyridine	1.37019	1.34874	1.34602	1.20738	1.41123	+++++					
	1.32495						AVRG		1.33475		5.16324
15 Phenol (ccc)	1.72459	1.70040	1.74194	1.67746	1.89601	+++++					
	1.95842						AVRG		1.78314		6.47262

Report Date : 09-Mar-2006 16:34

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
16 Aniline	2.19697	2.03202	1.91986	1.83268	2.04185	+++++					
	1.92385						AVRG		1.99121		6.40494
17 Bis(2-chloroethyl)ether	1.21446	1.24611	1.26768	1.19623	1.31307	+++++					
	1.24945						AVRG		1.24783		3.29108
18 2-Chlorophenol	1.29002	1.35467	1.32710	1.26433	1.38430	+++++					
	1.33384						AVRG		1.32571		3.26732
19 1,3-Dichlorobenzene	1.59776	1.52746	1.52602	1.46874	1.53970	+++++					
	1.44899						AVRG		1.51811		3.50722
20 1,4-Dichlorobenzene (ccc)	1.60352	1.55769	1.56273	1.46317	1.55608	+++++					
	1.45841						AVRG		1.53360		3.85063
21 Benzyl alcohol	0.83410	0.90966	0.85531	0.83853	0.95836	+++++					
	0.90968						AVRG		0.88427		5.59244
22 1,2-Dichlorobenzene	1.50654	1.46628	1.48121	1.41177	1.51008	+++++					
	1.44293						AVRG		1.46980		2.58258

Report Date : 09-Mar-2006 16:34

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
23 2-Methylphenol	1.20229	1.27428	1.24856	1.21526	1.35607	+++++					
	1.30386						AVRG		1.26672		4.54161
24 2,2'-Oxybis(1-Chloropropane)	2.21110	2.18055	2.11003	2.01842	2.20277	+++++					
	2.10836						AVRG		2.13854		3.45571
25 4-Methylphenol	1.20080	1.28662	1.33542	1.27948	1.43214	+++++					
	1.36652						AVRG		1.31683		6.06390
26 3&4 Methylphenol	1.20080	1.28662	1.33542	1.27948	1.43214	+++++					
	1.36652						AVRG		1.31683		6.06390
27 N-Nitroso-di-n-propylamine###	0.98567	1.00589	0.95789	0.94214	1.02867	+++++					
	0.97554						AVRG		0.98263		3.20886
28 Hexachloroethane	0.62957	0.60152	0.60057	0.56688	0.60767	+++++					
	0.57243						AVRG		0.59644		3.90873
29 Nitrobenzene	0.42367	0.43286	0.44734	0.42261	0.44690	+++++					
	0.44926						AVRG		0.43711		2.81516

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
30 Isophorone	0.78472	0.79692	0.82322	0.77290	0.85326	+++++					
	0.83860						AVRG		0.81160		3.91022
31 2-Nitrophenol (ccc)	0.18692	0.19172	0.19813	0.19142	0.21200	+++++					
	0.20900						AVRG		0.19820		5.15832
32 2,4-Dimethyphenol	0.39715	0.41440	0.45542	0.43024	0.46858	+++++					
	0.47177						AVRG		0.43959		6.93670
33 Bis(2-chloroethoxy)methane	0.45147	0.45035	0.46815	0.45328	0.48996	+++++					
	0.48715						AVRG		0.46673		3.88117
34 Benzoic acid	+++++	0.20299	0.19804	0.22187	0.26528	+++++					
	0.24766						AVRG		0.22717		12.70765
35 2,4-Dichlorophenol (ccc)	0.30673	0.33875	0.35886	0.34990	0.37478	+++++					
	0.36935						AVRG		0.34973		7.07988
36 1,2,4-Trichlorobenzene	0.39547	0.38198	0.39719	0.37567	0.39740	+++++					
	0.38798						AVRG		0.38928		2.31805

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Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
37 Naphthalene	1.16557	1.15899	1.19375	1.12809	1.20871	1.14287					
	1.19996						AVRG		1.17113		2.60474
38 4-Chloroaniline	0.50396	0.50936	0.50552	0.47110	0.52957	+++++					
	0.50941						AVRG		0.50482		3.75078
39 Hexachlorobutadiene (ccc)	0.28028	0.27349	0.29079	0.27661	0.28899	+++++					
	0.27514						AVRG		0.28088		2.61755
40 4-Chloro-3-methylphenol (ccc)	0.31490	0.36119	0.37938	0.36199	0.40025	+++++					
	0.38490						AVRG		0.36710		8.03702
41 2-Methylnaphthalene	0.74958	0.72908	0.74891	0.72031	0.77350	+++++					
	0.76420						AVRG		0.74760		2.70168
42 Hexachlorocyclopentadiene####	+++++	0.39657	0.44913	0.44689	0.49980	+++++					
	0.45217						AVRG		0.44891		8.14237
43 2,4,6-Trichlorophenol (ccc)	0.36282	0.38522	0.41803	0.40262	0.45012	+++++					
	0.43332						AVRG		0.40869		7.81635

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
44 2,4,5-Trichlorphenol	0.40442	0.42429	0.46160	0.45011	0.49154	+++++					
	0.47968						AVRG		0.45194		7.30965
45 2-Chloronaphthalene	1.21197	1.11880	1.21285	1.15536	1.27746	+++++					
	1.23990						AVRG		1.20272		4.76805
46 2-Nitroaniline	0.33070	0.37389	0.39124	0.36678	0.41981	+++++					
	0.41387						AVRG		0.38272		8.63216
47 Acenaphthylene	1.84750	1.82867	1.96690	1.88877	2.07204	1.61962					
	1.98986						AVRG		1.88762		7.72738
48 Dimethyl phthalate	1.37811	1.30612	1.40648	1.32331	1.46811	+++++					
	1.42043						AVRG		1.38376		4.41838
49 2,6-Dinitrotoluene	0.25799	0.27618	0.30295	0.28426	0.33055	+++++					
	0.32284						AVRG		0.29580		9.48709
50 3-Nitroaniline	0.32745	0.33790	0.35864	0.33606	0.38659	+++++					
	0.37705						AVRG		0.35395		6.80553

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
51 Acenaphthene (ccc)	1.13900	1.07333	1.16673	1.08711	1.21155	1.08431					
	1.17201						AVRG		1.13344		4.68266
52 2,4-Dinitrophenol ##spcc##	3572	18136	29146	50413	136842	+++++					
	241143						LINR	0.58347	0.17363		0.99687
53 Dibenzofuran	1.69055	1.62421	1.73125	1.59499	1.79699	+++++					
	1.70751						AVRG		1.69092		4.33026
54 4-Nitrophenol ##spcc##	+++++	0.20564	0.22213	0.21338	0.23718	+++++					
	0.22544						AVRG		0.22075		5.43953
55 2,4-Dinitrotoluene	0.34697	0.37709	0.41800	0.38318	0.44269	+++++					
	0.42288						AVRG		0.39847		8.89070
56 Fluorene	1.42545	1.33788	1.45265	1.36062	1.51156	1.37206					
	1.40406						AVRG		1.40918		4.24614
57 4-Chlorophenyl phenyl ether	0.69427	0.66792	0.72097	0.68113	0.73988	+++++					
	0.70180						AVRG		0.70099		3.74475

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
58 Diethyl phthalate	1.39717	1.26056	1.40832	1.29129	1.44057	+++++					
	1.37361						AVRG		1.36192		5.18992
59 4-Nitroaniline	0.32270	0.34733	0.36372	0.33445	0.39743	+++++					
	0.38212						AVRG		0.35796		7.98420
60 4,6-Dinitro-2-methylphenol	+++++	0.11089	0.11435	0.11500	0.14389	+++++					
	0.14502						AVRG		0.12583		13.57247
61 N-Ndpa / diphenylamine (ccc)	0.51608	0.51540	0.51594	0.50534	0.55518	+++++					
	0.53071						AVRG		0.52311		3.37882
62 1,2-Diphenylhydrazine/azobnz	0.78892	0.76664	0.80251	0.78720	0.85908	+++++					
	0.86336						AVRG		0.81128		4.97548
63 4-Bromophenyl phenyl ether	0.21770	0.21503	0.22616	0.21572	0.23493	+++++					
	0.22589						AVRG		0.22257		3.50365
64 Hexachlorobenzene	0.28548	0.26788	0.27832	0.27126	0.28933	+++++					
	0.27722						AVRG		0.27825		2.93057

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Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
65 Pentachlorophenol (ccc)	+++++	0.15884	0.17382	0.17621	0.19587	+++++					
	0.19598						AVRG		0.18014		8.80982
66 Phenanthrene	1.24786	1.20283	1.19313	1.16579	1.27255	1.14153					
	1.21802						AVRG		1.20596		3.75049
67 Anthracene	1.22497	1.18081	1.19336	1.17389	1.29501	1.15432					
	1.22264						AVRG		1.20643		3.86639
68 Carbazole	1.11963	1.09730	1.12984	1.07527	1.20838	+++++					
	1.18953						AVRG		1.13666		4.58716
69 Di-n-butyl phthalate	1.25398	1.25192	1.26335	1.25963	1.38598	+++++					
	1.31916						AVRG		1.28900		4.16868
70 Fluoranthene (ccc)	1.33822	1.30392	1.32576	1.27203	1.41677	1.14433					
	1.31716						AVRG		1.30260		6.34890
71 Pyrene	1.32535	1.25311	1.28675	1.24726	1.38487	1.17105					
	1.28581						AVRG		1.27917		5.22431

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
72 Butyl benzyl phthalate	0.56740	0.54997	0.56567	0.54603	0.61810	+++++					
	0.59230						AVRG		0.57324		4.77690
73 Benzo(a)Anthracene	1.34387	1.28822	1.33007	1.26147	1.38022	1.26541					
	1.29770						AVRG		1.30957		3.33560
74 3,3'-Dichlorobenzidine	0.47426	0.48816	0.50096	0.48810	0.52761	+++++					
	0.49540						AVRG		0.49575		3.63141
75 Chrysene	1.32563	1.25119	1.30215	1.20718	1.28066	1.26580					
	1.14494						AVRG		1.25393		4.87214
76 Bis(2-ethylhexyl) phthalate	0.73390	0.72680	0.73066	0.70979	0.80309	0.65604					
	0.73932						AVRG		0.72851		5.96177
77 Di-n-octyl phthalate (ccc)	1.34220	1.43258	1.41820	1.34689	1.63957	+++++					
	1.59394						AVRG		1.46223		8.61390
78 Benzo(b)fluoranthene	1.49250	1.58714	1.73723	1.47080	1.66602	1.26773					
	+++++						AVRG		1.53690		10.81439

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Compound	10 Level 1 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 Benzo(k)fluoranthene	1.66540 1.54714	1.52256	1.49494	1.55428	1.60775	1.59383	AVRG		1.56942		3.65522
80 Benzo(a)pyrene (ccc)	1.26474 1.34406	1.28071	1.30967	1.27272	1.38385	1.11006	AVRG		1.28083		6.75619
85 Benzo(e)pyrene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
81 Indeno(1,2,3-cd)pyrene	1.41964 1.53018	1.39620	1.43370	1.43601	1.53541	1.18231	AVRG		1.41907		8.28605
82 Dibenz(a,h)anthracene	1.18601 1.29139	1.13565	1.20038	1.18879	1.30447	1.01910	AVRG		1.18940		8.09837
83 Benzo(g,h,i)perylene	1.17149 1.29403	1.14358	1.22095	1.20656	1.29474	1.07033	AVRG		1.20024		6.72664
176 2-Picoline	1.19068 1.20844	1.17461	1.24565	1.17983	1.12287	+++++	AVRG		1.18701		3.41803

NA

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Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
86 N-nitrosomethylethylamine	0.77717	0.72730	0.78656	0.75587	0.75039	+++++					
	0.76926						AVRG		0.76109		2.79174
181 Furfural	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00 <- NA
87 Methyl methanosulfonate	0.29121	0.28371	0.28921	0.27972	0.27343	+++++					
	0.25428						AVRG		0.27859		4.86160
88 N-nitrosodiethylamine	0.55143	0.53649	0.57378	0.56992	0.57252	+++++					
	0.55408						AVRG		0.55970		2.65668
89 Ethyl methanosulfonate	0.85417	0.86894	0.86096	0.83615	0.83473	+++++					
	0.81749						AVRG		0.84541		2.27614
90 Pentachloroethane	0.51666	0.50108	0.49976	0.50499	0.46724	+++++					
	0.49239						AVRG		0.49702		3.34430
91 acetophenone	1.73044	1.68746	1.69841	1.68151	1.65607	+++++					
	1.62751						AVRG		1.68023		2.10730

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Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
92 m-cresol	1.26369	1.19582	1.20766	1.24660	1.26727	+++++					
	1.20907						AVRG		1.23168		2.53858
93 n-nitrosopyrrolidine	0.67291	0.62517	0.64921	0.65834	0.66060	+++++					
	0.62897						AVRG		0.64920		2.89225
94 n-nitrosomorpholine	0.90065	0.89185	0.92592	0.90095	0.91442	+++++					
	0.90374						AVRG		0.90626		1.33018
95 o-toluidine	1.59022	1.70012	1.66254	1.65073	1.72323	+++++					
	1.70173						AVRG		1.67143		2.87256
96 n-nitrosopiperidine	0.30202	0.28639	0.28697	0.29127	0.28823	+++++					
	0.29344						AVRG		0.29139		2.01166
97 2,6-dichlorophenol	0.32433	0.31121	0.30752	0.30022	0.30218	+++++					
	0.30734						AVRG		0.30880		2.77962
98 hexachloropropene	0.26170	0.26103	0.25918	0.24501	0.24065	+++++					
	0.25523						AVRG		0.25380		3.50733

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Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
99 N-nitro-di-n-butylamine	0.21978	0.21192	0.22838	0.21113	0.21401	+++++					
	0.21577						AVRG		0.21683		2.97275
100 Isosafrole	0.28965	0.27440	0.27788	0.27182	0.26621	+++++					
	0.27319						AVRG		0.27552		2.86743
101 1,2,4,5-tetrachlorobenzene	0.34793	0.34897	0.34283	0.33342	0.33446	+++++					
	0.34613						AVRG		0.34229		1.98716
102 safrole	0.49538	0.53884	0.50794	0.50381	0.49984	+++++					
	0.51489						AVRG		0.51012		3.05595
103 1-chloronaphthalene	1.05946	1.10735	1.04177	1.01511	0.99407	+++++					
	1.04468						AVRG		1.04374		3.73164
104 m-dinitrobenzene	0.13682	0.16348	0.16489	0.16854	0.18431	+++++					
	0.18135						AVRG		0.16656		10.16875
105 pentachlorobenzene	0.53488	0.53428	0.51733	0.50183	0.48876	+++++					
	0.52005						AVRG		0.51619		3.52100

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Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
106 1-naphthylamine	1.12203	1.13655	1.09667	1.06944	1.08346	++++++					
	1.07182						AVRG		1.09666		2.50286
182 2-Chlorobenzalmalononitrile	++++++	++++++	++++++	++++++	++++++	++++++					
	++++++						AVRG		0.000e+00		0.000e+00 <- NA
107 2-naphthylamine	1.12177	1.15202	1.01506	1.03940	1.05628	++++++					
	1.05568						AVRG		1.07337		4.87458
108 2,3,4,6-tetrachlorophenol	0.27622	0.32807	0.32404	0.32461	0.33518	++++++					
	0.34265						AVRG		0.32180		7.27939
109 5-nitro-o-toluidine	0.33454	0.37492	0.34442	0.32832	0.34233	++++++					
	0.35165						AVRG		0.34603		4.71002
110 diphenylamine	1.05310	1.09916	1.05267	1.03261	1.01267	++++++					
	1.03101						AVRG		1.04687		2.84357
111 1,3,5-trinitrobenzene	7901	22517	35609	66714	179276	++++++					
	230279						LINR	0.41585	0.14040		0.99850

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	200 Level 8										
112 phenacetin	0.38539	0.36525	0.36555	0.35070	0.34602	+++++					
	0.34754						AVRG		0.36008		4.19420
113 4-aminobiphenyl	0.81028	0.76386	0.79541	0.74573	0.75621	+++++					
	0.75211						AVRG		0.77060		3.38534
114 pentachloronitrobenzene	0.10491	0.09947	0.10411	0.09575	0.09896	+++++					
	0.10207						AVRG		0.10088		3.43502
115 Dinoseb	0.09925	0.10944	0.12367	0.13154	0.13971	+++++					
	0.14075						AVRG		0.12406		13.53047
178 N-Nitroquinoline-n-oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00
177 Methapyrilene HCL	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00
84 Benzidine	0.82541	0.82508	0.83395	0.83778	0.73574	+++++					
	0.86071						AVRG		0.81978		5.26718

NA

Report Date : 09-Mar-2006 16:34

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Compound	10 Level 1 / 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
116 p-(dimethylamino)azobenzene	0.30711	0.30749	0.31112	0.29855	0.28678	+++++					
	0.29485						AVRG		0.30098		3.07371
118 2-acetylaminofluorene	0.53085	0.56213	0.51854	0.52691	0.49760	+++++					
	0.52771						AVRG		0.52729		3.96446
117 o-tolidine	0.87443	0.85284	0.85500	0.83994	0.75695	+++++					
	0.83766						AVRG		0.83614		4.89853
119 7,12-dimethylbenz(a)anthracen	0.57696	0.57717	0.54586	0.54317	0.52627	+++++					
	0.56742						AVRG		0.55614		3.74542
120 3-methylcholanthrene	0.64843	0.63479	0.60687	0.62859	0.60382	+++++					
	0.62056						AVRG		0.62384		2.72671
183 2-chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00 <-
184 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00 <-

NA

Report Date : 09-Mar-2006 16:34

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Compound	10 Level 1 200 Level 8	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
185 Benzonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
M 186 PAH, Summed Target List	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 7 2-Fluorophenol	1.39357 1.42459	1.35012	1.43191	1.32820	1.46342	+++++	AVRG		1.39863		3.69001	
$ 8 Phenol-d5	1.63645 1.73490	1.68161	1.66406	1.59631	1.80930	+++++	AVRG		1.68711		4.48185	
$ 9 Nitrobenzene-d5	0.41863 0.46718	0.44071	0.46742	0.43963	0.47142	+++++	AVRG		0.45083		4.68600	
$ 10 2-Fluorobiphenyl	1.31761 1.33706	1.24706	1.33912	1.27471	1.39541	+++++	AVRG		1.31850		3.97118	
$ 11 2,4,6-Tribromophenol	0.11348 0.13587	0.12491	0.12566	0.12105	0.13995	+++++	AVRG		0.12682		7.65073	

NA

Report Date : 09-Mar-2006 16:34

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	2 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
$ 12 Terphenyl-d14	1.00720	0.93759	0.96957	0.93107	1.01974	+++++					
	0.97147						AVRG		0.97277		3.67218
$ 179 13C6-naphthalene	1.23187	1.22495	1.34732	1.33319	1.30194	+++++					
	+++++						AVRG		1.28786		4.40642
$ 173 Pyridine-d5	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00 NA
$ 180 Pentachlorophenol C13	16020	61234	87014	151579	317721	+++++					
	+++++						LINR	0.24654	0.22034		0.99907

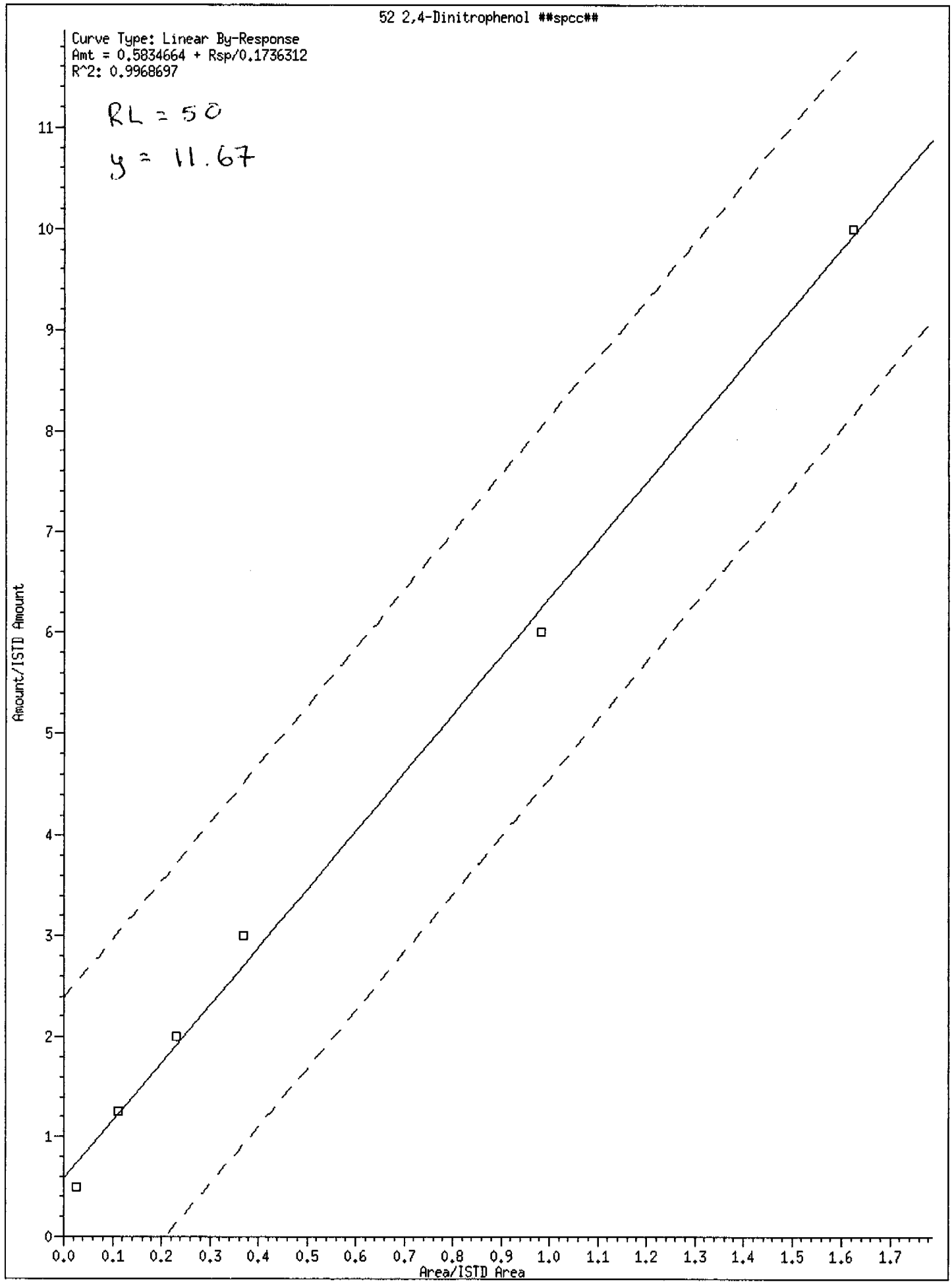
Report Date : 09-Mar-2006 16:34

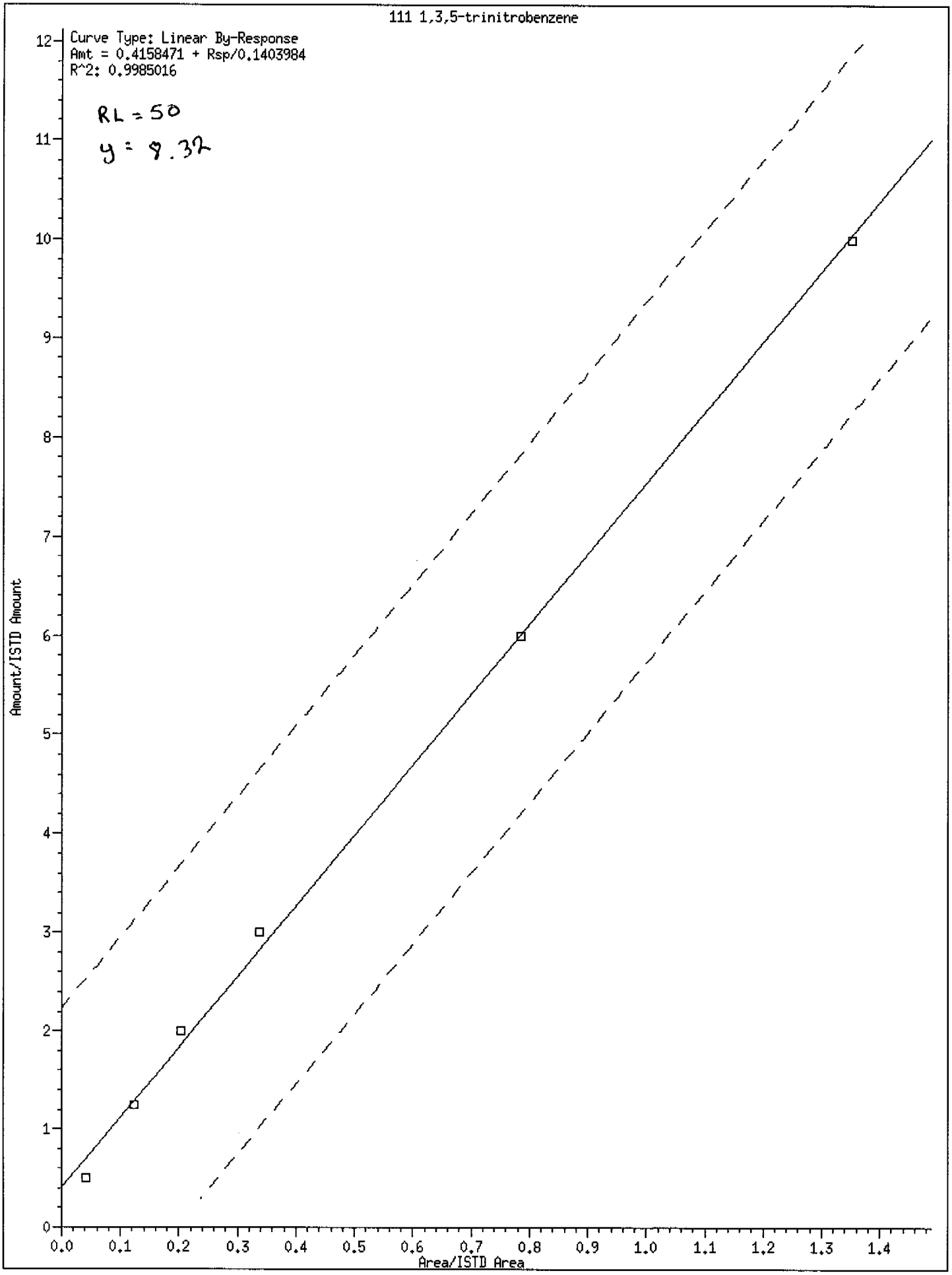
STL Knoxville

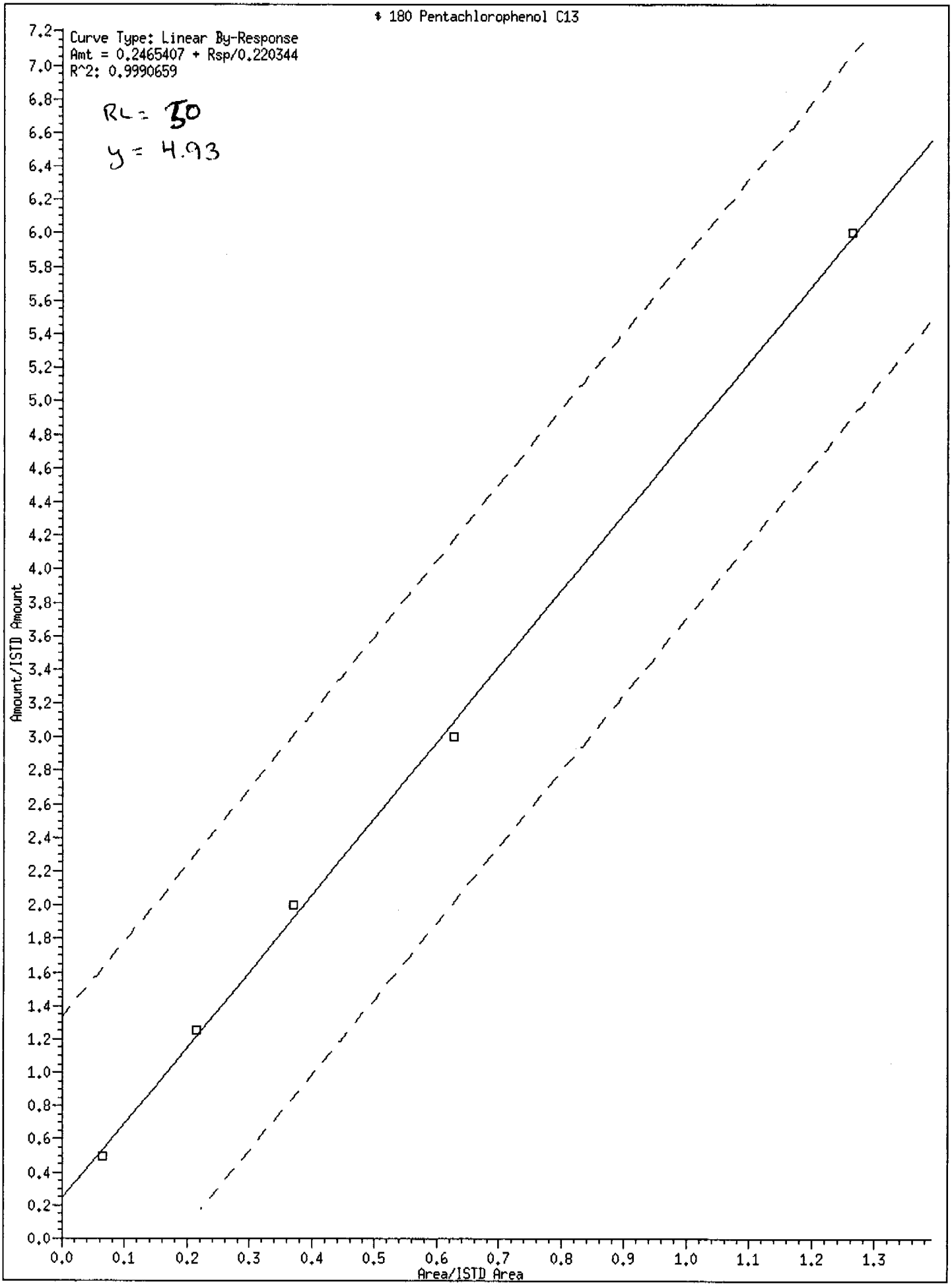
INITIAL CALIBRATION DATA

Start Cal Date : 13-FEB-2006 09:22
End Cal Date : 09-MAR-2006 15:00
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Cal Date : 09-Mar-2006 16:32 mcgeek

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response


52 2,4-Dinitrophenol **spcc**
Curve Type: Linear By-Response
Amt = 0.5834664 + Rsp/0.1736312
R^2: 0.9968697
RL = 50
y = 11.67
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7


111 1,3,5-trinitrobenzene
Curve Type: Linear By-Response
Amt = 0.4158471 + Rsp/0.1403984
R^2: 0.9985016
RL = 50
y = 9.32
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4


* 180 Pentachlorophenol C13
Curve Type: Linear By-Response
Amt = 0.2465407 + Rsp/0.220344
R^2: 0.9990659
RL = 50
y = 4.93
Amount/ISTD Amount
Area/ISTD Area

Data File: /var/chem/gcms/md.i/D021706I.b/icdb177.d
Report Date: 17-Feb-2006 14:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb177.d
Lab Smp Id: ICDB177 Client Smp ID: VSTD002
Inj Date : 17-FEB-2006 13:33
Operator : 60841 Inst ID: md.i
Smp Info : ICDB177,,1,7,,VSTD002,
Misc Info : D021706I,8270a9,low.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 17-FEB-2006 13:33 Cal File: icdb177.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: low.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.218	4.218	(1.000)	56983	20.0000	
* 2 Naphthalene-d8	136	5.816	5.828	(1.000)	191605	20.0000	
* 3 Acenaphthene-d10	164	8.471	8.477	(1.000)	131401	20.0000	
* 4 Phenanthrene-d10	188	9.976	9.982	(1.000)	246353	20.0000	
* 5 Chrysene-d12	240	12.061	12.073	(1.000)	280945	20.0000	
* 6 Perylene-d12	264	13.289	13.301	(1.000)	245383	20.0000	
$ 7 2-Fluorophenol	112	3.060	3.066	(0.726)	6803	2.00000	1.71
$ 8 Phenol-d5	99	3.889	3.906	(0.922)	7210	2.00000	1.50
$ 9 Nitrobenzene-d5	82	4.876	4.893	(0.838)	6856	2.00000	1.59
$ 10 2-Fluorobiphenyl	172	7.543	7.555	(0.890)	14508	2.00000	1.67
$ 11 2,4,6-Tribromophenol	330	9.359	9.365	(0.938)	1737	2.00000	1.11
$ 12 Terphenyl-d14	244	11.251	11.257	(0.933)	25920	2.00000	1.90
175 1,4-Dioxane	88	1.891	1.896	(0.448)	223193	160.000	166(A)
37 Naphthalene	128	5.845	5.857	(1.005)	21898	2.00000	1.95

Data File: /var/chem/gcms/md.i/D021706I.b/icdb177.d
Report Date: 17-Feb-2006 14:09

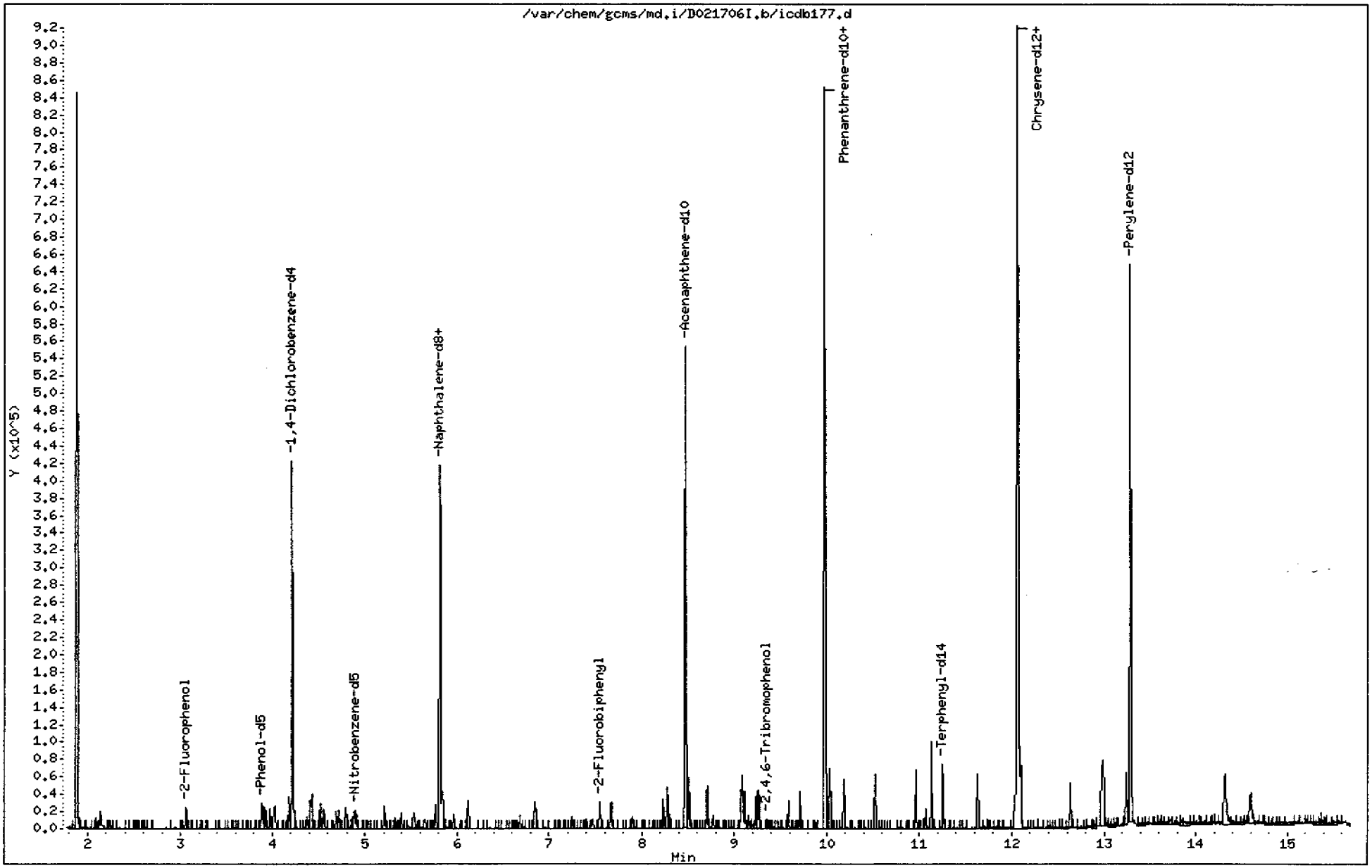
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
47 Acenaphthylene	152	8.272	8.284	(0.976)	21282	2.00000	1.72
51 Acenaphthene (ccc)	153	8.513	8.524	(1.005)	14248	2.00000	1.91
56 Fluorene	166	9.088	9.100	(1.073)	18029	2.00000	1.95
66 Phenanthrene	178	9.993	10.005	(1.002)	28122	2.00000	1.89
67 Anthracene	178	10.034	10.040	(1.006)	28437	2.00000	1.91
70 Fluoranthene (ccc)	202	10.957	10.969	(1.098)	28191	2.00000	1.76
71 Pyrene	202	11.127	11.139	(0.923)	32900	2.00000	1.83
73 Benzo(a)Anthracene	228	12.050	12.056	(0.999)	35551	2.00000	1.93
75 Chrysene	228	12.079	12.097	(1.001)	35562	2.00000	2.02
76 Bis(2-ethylhexyl) phthalate	149	12.097	12.103	(1.003)	18431	2.00000	2.00
78 Benzo(b)fluoranthene	252	12.978	12.990	(0.977)	31108	2.00000	1.65
79 Benzo(k)fluoranthene	252	12.996	13.013	(0.978)	39110	2.00000	2.03
80 Benzo(a)pyrene (ccc)	252	13.242	13.260	(0.996)	27239	2.00000	1.73
82 Dibenz(a,h)anthracene	278	14.324	14.353	(1.078)	25007	2.00000	1.72
81 Indeno(1,2,3-cd)pyrene	276	14.312	14.341	(1.077)	29012	2.00000	1.67
83 Benzo(g,h,i)perylene	276	14.600	14.635	(1.099)	26264	2.00000	1.78

QC Flag Legend

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

Data File: /var/chem/gcms/md.i/D021706I.b/icdb177.d
Date : 17-FEB-2006 13:33
Client ID: VSTD002
Sample Info: ICDB177,,1,7,,VSTD002,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icdb171.d
Report Date: 17-Feb-2006 14:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb171.d
Lab Smp Id: ICDB171 Client Smp ID: VSTD010
Inj Date : 17-FEB-2006 13:10
Operator : 60841 Inst ID: md.i
Smp Info : ICDB171,,1,1,,VSTD010,
Misc Info : D021706I,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 13-FEB-2006 14:23 Cal File: a9db131.d
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.217	4.218	(1.000)	59024	20.0000	
* 2 Naphthalene-d8	136	5.816	5.828	(1.000)	203011	20.0000	
* 3 Acenaphthene-d10	164	8.471	8.477	(1.000)	136802	20.0000	
* 4 Phenanthrene-d10	188	9.976	9.982	(1.000)	247790	20.0000	
* 5 Chrysene-d12	240	12.061	12.073	(1.000)	266193	20.0000	
* 6 Perylene-d12	264	13.289	13.301	(1.000)	236274	20.0000	
$ 7 2-Fluorophenol	112	3.060	3.066	(0.726)	41127	10.0000	9.96
$ 8 Phenol-d5	99	3.888	3.906	(0.922)	48295	10.0000	9.70
$ 9 Nitrobenzene-d5	82	4.876	4.893	(0.838)	42493	10.0000	9.28
$ 10 2-Fluorobiphenyl	172	7.543	7.555	(0.890)	90126	10.0000	9.99
$ 11 2,4,6-Tribromophenol	330	9.359	9.365	(0.938)	14059	10.0000	8.95
$ 12 Terphenyl-d14	244	11.251	11.257	(0.933)	134055	10.0000	10.4
$ 179 13C6-naphthalene	134	5.845	5.851	(1.005)	125042	10.0000	9.56
$ 180 Pentachlorophenol C13	272	9.876	9.881	(0.990)	16020	10.0000	10.8

Data File: /var/chem/gcms/md.i/D021706I.b/icdb171.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
175 1,4-Dioxane	88	1.891	1.896	(0.448)	13552	10.0000	9.56
13 N-Nitrosodimethylamine	74	2.096	2.102	(0.497)	20214	10.0000	10.3
14 Pyridine	79	2.126	2.114	(0.504)	40437	10.0000	10.3
15 Phenol (ccc)	94	3.900	3.918	(0.925)	50896	10.0000	9.67
16 Aniline	93	3.924	3.936	(0.930)	64837	10.0000	11.0
17 Bis(2-chloroethyl)ether	93	3.982	3.994	(0.944)	35841	10.0000	9.73
18 2-Chlorophenol	128	4.035	4.047	(0.957)	38071	10.0000	9.73
19 1,3-Dichlorobenzene	146	4.182	4.188	(0.992)	47153	10.0000	10.5
20 1,4-Dichlorobenzene (ccc)	146	4.235	4.241	(1.004)	47323	10.0000	10.4
21 Benzyl alcohol	108	4.376	4.388	(1.038)	24616	10.0000	9.43
22 1,2-Dichlorobenzene	146	4.429	4.435	(1.050)	44461	10.0000	10.2
23 2-Methylphenol	108	4.517	4.529	(1.071)	35482	10.0000	9.49
24 2,2'-Oxybis(1-Chloropropane)	45	4.558	4.564	(1.081)	65254	10.0000	10.3
25 4-Methylphenol	108	4.688	4.711	(1.111)	35438	10.0000	9.12
26 3&4 Methylphenol	108	4.688	4.711	(1.111)	35438	10.0000	9.12
27 N-Nitroso-di-n-propylamine###	70	4.717	4.741	(1.118)	29089	10.0000	10.0
28 Hexachloroethane	117	4.793	4.793	(1.137)	18580	10.0000	10.6
29 Nitrobenzene	77	4.899	4.917	(0.842)	43005	10.0000	9.69
30 Isophorone	82	5.210	5.228	(0.896)	79653	10.0000	9.67
31 2-Nitrophenol (ccc)	139	5.328	5.334	(0.916)	18973	10.0000	9.43
32 2,4-Dimethyphenol	107	5.393	5.410	(0.927)	40313	10.0000	9.03
33 Bis(2-chloroethoxy)methane	93	5.534	5.546	(0.952)	45827	10.0000	9.67
34 Benzoic acid	122	5.487	5.628	(0.943)	11566	10.0000	5.07
35 2,4-Dichlorophenol (ccc)	162	5.645	5.657	(0.971)	31135	10.0000	8.77
36 1,2,4-Trichlorobenzene	180	5.769	5.775	(0.992)	40142	10.0000	10.2
37 Naphthalene	128	5.845	5.857	(1.005)	118312	10.0000	10.0
38 4-Chloroaniline	127	5.963	5.974	(1.025)	51155	10.0000	9.98
39 Hexachlorobutadiene (ccc)	225	6.121	6.127	(1.053)	28450	10.0000	9.98
40 4-Chloro-3-methylphenol (ccc)	107	6.679	6.691	(1.149)	31964	10.0000	8.58
41 2-Methylnaphthalene	142	6.850	6.856	(1.178)	76087	10.0000	10.0
42 Hexachlorocyclopentadiene####	237	7.255	7.261	(0.856)	26014	10.0000	8.47
43 2,4,6-Trichlorophenol (ccc)	196	7.402	7.414	(0.874)	24817	10.0000	8.88
44 2,4,5-Trichlorphenol	196	7.461	7.473	(0.881)	27663	10.0000	8.95
45 2-Chloronaphthalene	162	7.672	7.684	(0.906)	82900	10.0000	10.1
46 2-Nitroaniline	65	7.896	7.913	(0.932)	22620	10.0000	8.64
47 Acenaphthylene	152	8.272	8.284	(0.976)	126371	10.0000	9.88
48 Dimethyl phthalate	163	8.230	8.248	(0.972)	94264	10.0000	9.96
49 2,6-Dinitrotoluene	165	8.301	8.319	(0.980)	17647	10.0000	8.72
50 3-Nitroaniline	138	8.460	8.483	(0.999)	22398	10.0000	9.25
51 Acenaphthene (ccc)	153	8.513	8.524	(1.005)	77909	10.0000	9.98
52 2,4-Dinitrophenol ##spcc##	184	8.589	8.601	(1.014)	3572	10.0000	14.7
53 Dibenzofuran	168	8.706	8.718	(1.028)	115635	10.0000	10.0
54 4-Nitrophenol ##spcc##	109	8.701	8.718	(1.027)	9651	10.0000	6.39
55 2,4-Dinitrotoluene	165	8.771	8.789	(1.035)	23733	10.0000	8.71
56 Fluorene	166	9.088	9.100	(1.073)	97502	10.0000	10.2
57 4-Chlorophenyl phenyl ether	204	9.112	9.118	(1.076)	47489	10.0000	9.90
58 Diethyl phthalate	149	9.071	9.089	(1.071)	95568	10.0000	10.2

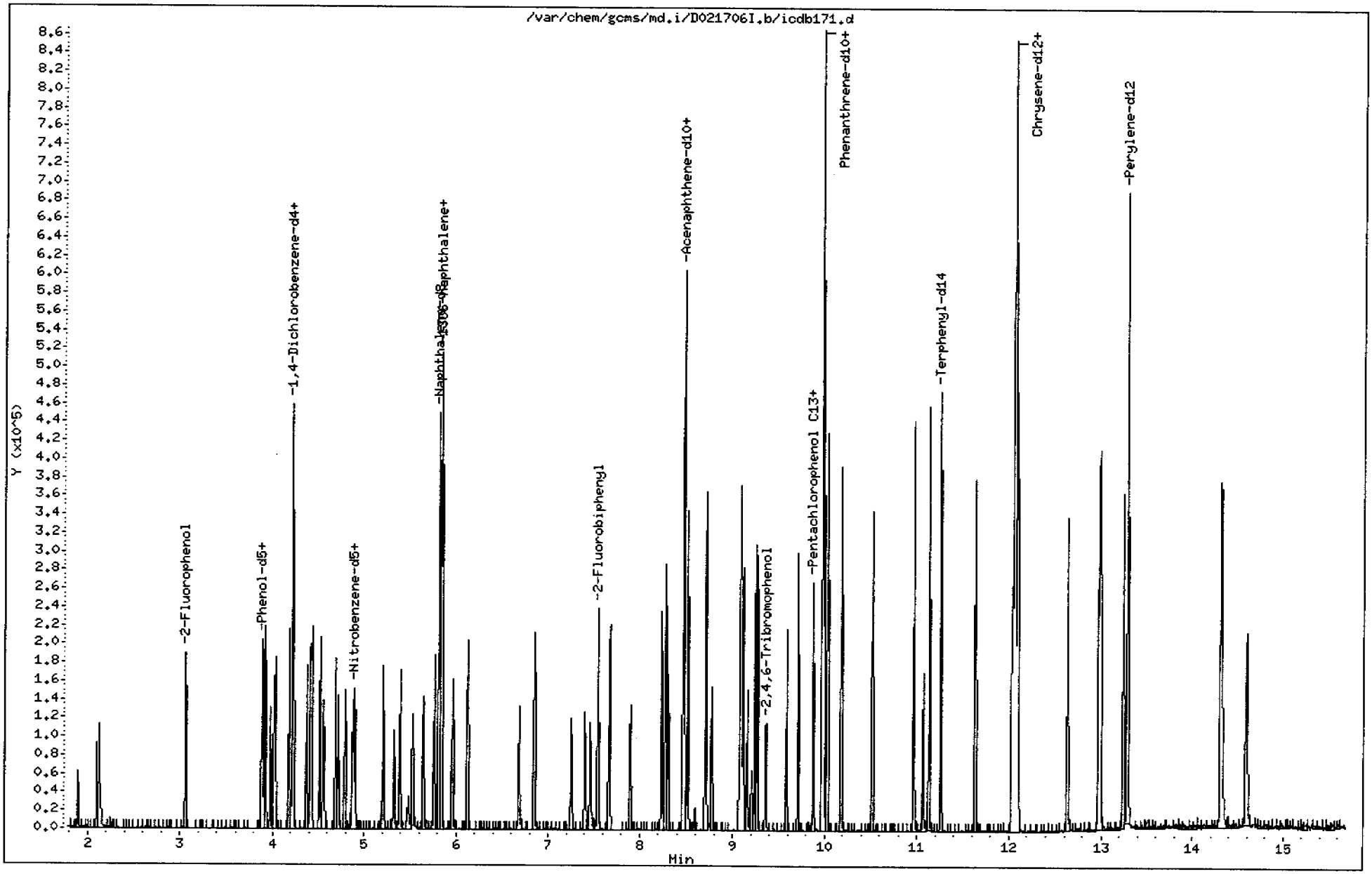
Data File: /var/chem/gcms/md.i/D021706I.b/icdb171.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
59 4-Nitroaniline	138	9.159	9.188	(1.081)	22073	10.0000	9.02
60 4,6-Dinitro-2-methylphenol	198	9.206	9.230	(0.923)	8752	10.0000	5.61
61 N-Ndpa / diphenylamine (ccc)	169	9.241	9.253	(0.926)	63940	10.0000	9.86
62 1,2-Diphenylhydrazine/azobnz	77	9.265	9.277	(0.929)	97743	10.0000	9.72
63 4-Bromophenyl phenyl ether	248	9.588	9.594	(0.961)	26972	10.0000	9.78
64 Hexachlorobenzene	284	9.711	9.717	(0.973)	35369	10.0000	10.2
65 Pentachlorophenol (ccc)	266	9.876	9.882	(0.990)	15394	10.0000	6.90
66 Phenanthrene	178	9.993	10.005	(1.002)	154604	10.0000	10.2
67 Anthracene	178	10.034	10.040	(1.006)	151768	10.0000	10.3
68 Carbazole	167	10.181	10.187	(1.021)	138716	10.0000	9.85
69 Di-n-butyl phthalate	149	10.516	10.522	(1.054)	155362	10.0000	9.73
70 Fluoranthene (ccc)	202	10.963	10.969	(1.099)	165799	10.0000	10.3
71 Pyrene	202	11.133	11.139	(0.923)	176400	10.0000	10.3
72 Butyl benzyl phthalate	149	11.627	11.633	(0.964)	75519	10.0000	9.90
73 Benzo(a)Anthracene	228	12.044	12.056	(0.999)	178864	10.0000	10.4
74 3,3'-Dichlorobenzidine	252	12.032	12.038	(0.998)	63122	10.0000	9.57
75 Chrysene	228	12.085	12.097	(1.002)	176437	10.0000	10.5
76 Bis(2-ethylhexyl) phthalate	149	12.097	12.103	(1.003)	97679	10.0000	10.4
77 Di-n-octyl phthalate (ccc)	149	12.637	12.643	(0.951)	158563	10.0000	9.17
78 Benzo(b)fluoranthene	252	12.978	12.990	(0.977)	176319	10.0000	9.86
79 Benzo(k)fluoranthene	252	12.996	13.013	(0.978)	196745	10.0000	10.6
80 Benzo(a)pyrene (ccc)	252	13.242	13.260	(0.996)	149413	10.0000	10.1
81 Indeno(1,2,3-cd)pyrene	276	14.312	14.341	(1.077)	167712	10.0000	10.2
82 Dibenz(a,h)anthracene	278	14.323	14.353	(1.078)	140112	10.0000	10.1
83 Benzo(g,h,i)perylene	276	14.600	14.635	(1.099)	138396	10.0000	9.85

Data File: /var/chem/gcms/md.i/D021706I.b/icdb171.d
Date : 17-FEB-2006 13:10
Client ID: VSTD010
Sample Info: ICDB171,,1,1,,VSTD010,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icdb172.d
Report Date: 17-Feb-2006 14:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb172.d
Lab Smp Id: ICDB172 Client Smp ID: VSTD025
Inj Date : 17-FEB-2006 12:47
Operator : 60841 Inst ID: md.i
Smp Info : ICDB172,,1,2,,VSTD025,
Misc Info : D021706I,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 13-FEB-2006 14:00 Cal File: a9db132.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.218	4.218	(1.000)	65775	20.0000	
* 2 Naphthalene-d8	136	5.816	5.828	(1.000)	229026	20.0000	
* 3 Acenaphthene-d10	164	8.477	8.477	(1.000)	162077	20.0000	
* 4 Phenanthrene-d10	188	9.976	9.982	(1.000)	287078	20.0000	
* 5 Chrysene-d12	240	12.062	12.073	(1.000)	319570	20.0000	
* 6 Perylene-d12	264	13.295	13.301	(1.000)	274651	20.0000	
$ 7 2-Fluorophenol	112	3.060	3.066	(0.726)	111005	25.0000	24.1
$ 8 Phenol-d5	99	3.889	3.906	(0.922)	138260	25.0000	24.9
$ 9 Nitrobenzene-d5	82	4.876	4.893	(0.838)	126167	25.0000	24.4
$ 10 2-Fluorobiphenyl	172	7.543	7.555	(0.890)	252649	25.0000	23.6
$ 11 2,4,6-Tribromophenol	330	9.359	9.365	(0.938)	44825	25.0000	24.6
$ 12 Terphenyl-d14	244	11.251	11.257	(0.933)	374533	25.0000	24.1
$ 179 13C6-naphthalene	134	5.845	5.851	(1.005)	350681	25.0000	23.8
$ 180 Pentachlorophenol C13	272	9.876	9.881	(0.990)	61234	25.0000	24.3

Data File: /var/chem/gcms/md.i/D021706I.b/icdb172.d
Report Date: 17-Feb-2006 14:09

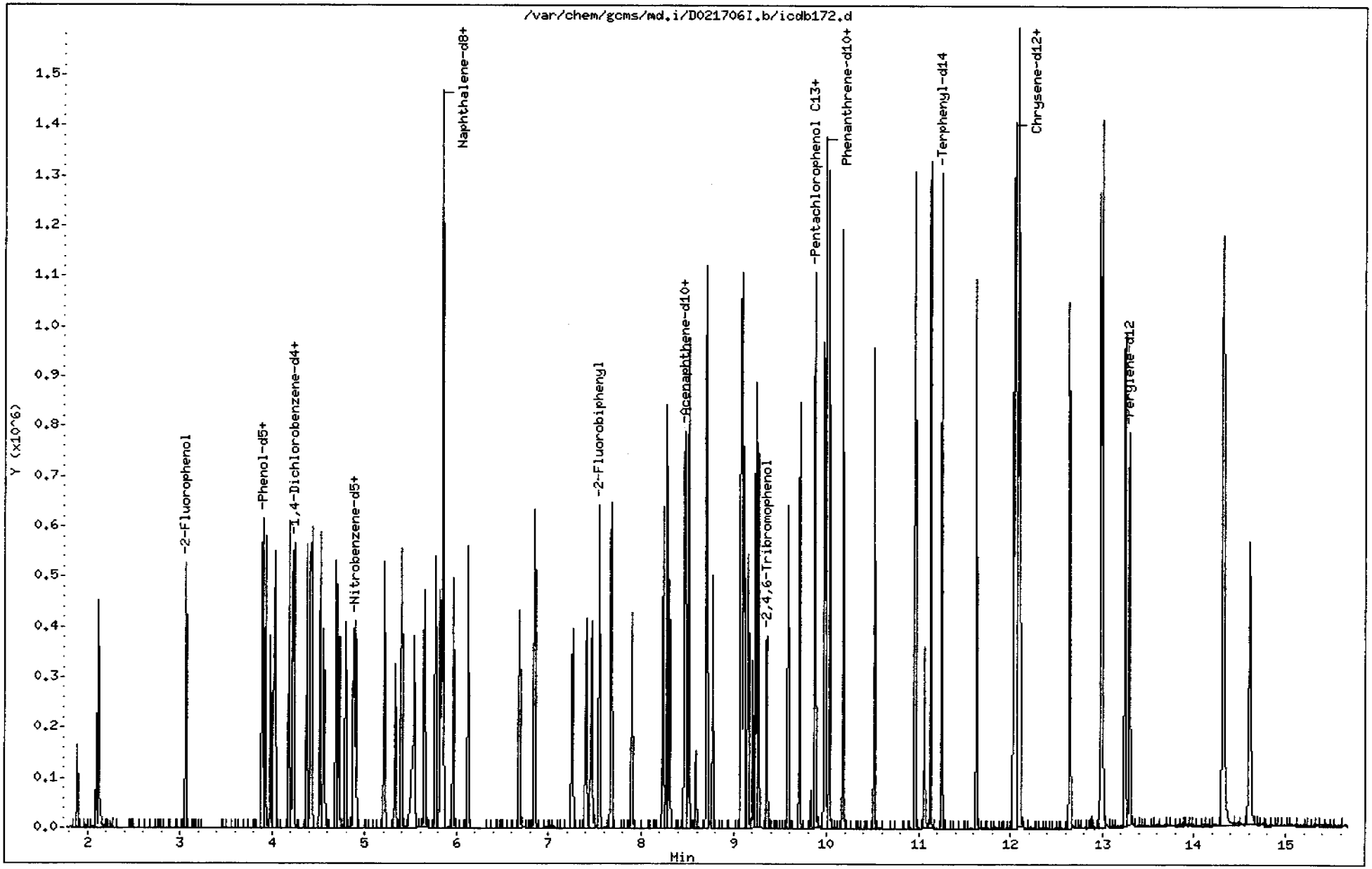
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
175 1,4-Dioxane	88	1.891	1.896	(0.448)	34546	25.0000	21.9
13 N-Nitrosodimethylamine	74	2.097	2.102	(0.497)	56343	25.0000	25.7
14 Pyridine	79	2.114	2.114	(0.501)	110892	25.0000	25.3
15 Phenol (ccc)	94	3.900	3.918	(0.925)	139805	25.0000	23.8
16 Aniline	93	3.924	3.936	(0.930)	167070	25.0000	25.5
17 Bis(2-chloroethyl)ether	93	3.983	3.994	(0.944)	102454	25.0000	25.0
18 2-Chlorophenol	128	4.036	4.047	(0.957)	111379	25.0000	25.5
19 1,3-Dichlorobenzene	146	4.182	4.188	(0.992)	125586	25.0000	25.2
20 1,4-Dichlorobenzene (ccc)	146	4.235	4.241	(1.004)	128071	25.0000	25.4
21 Benzyl alcohol	108	4.376	4.388	(1.038)	74791	25.0000	25.7
22 1,2-Dichlorobenzene	146	4.429	4.435	(1.050)	120556	25.0000	24.9
23 2-Methylphenol	108	4.517	4.529	(1.071)	104770	25.0000	25.1
24 2,2'-Oxybis(1-Chloropropane)	45	4.558	4.564	(1.081)	179282	25.0000	25.5
25 4-Methylphenol	108	4.688	4.711	(1.111)	105784	25.0000	24.4
26 3&4 Methylphenol	108	4.688	4.711	(1.111)	105784	25.0000	24.4
27 N-Nitroso-di-n-propylamine###	70	4.717	4.741	(1.118)	82703	25.0000	25.6
28 Hexachloroethane	117	4.793	4.793	(1.137)	49456	25.0000	25.2
29 Nitrobenzene	77	4.899	4.917	(0.842)	123920	25.0000	24.8
30 Isophorone	82	5.211	5.228	(0.896)	228143	25.0000	24.5
31 2-Nitrophenol (ccc)	139	5.328	5.334	(0.916)	54885	25.0000	24.2
32 2,4-Dimethyphenol	107	5.399	5.410	(0.928)	118636	25.0000	23.6
33 Bis(2-chloroethoxy)methane	93	5.534	5.546	(0.952)	128926	25.0000	24.1
34 Benzoic acid	122	5.516	5.628	(0.948)	58112	25.0000	22.6
35 2,4-Dichlorophenol (ccc)	162	5.645	5.657	(0.971)	96977	25.0000	24.2
36 1,2,4-Trichlorobenzene	180	5.769	5.775	(0.992)	109353	25.0000	24.5
37 Naphthalene	128	5.845	5.857	(1.005)	331799	25.0000	24.9
38 4-Chloroaniline	127	5.963	5.974	(1.025)	145820	25.0000	25.2
39 Hexachlorobutadiene (ccc)	225	6.121	6.127	(1.053)	78294	25.0000	24.3
40 4-Chloro-3-methylphenol (ccc)	107	6.685	6.691	(1.150)	103402	25.0000	24.6
41 2-Methylnaphthalene	142	6.850	6.856	(1.178)	208722	25.0000	24.4
42 Hexachlorocyclopentadiene####	237	7.255	7.261	(0.856)	80344	25.0000	22.1
43 2,4,6-Trichlorophenol (ccc)	196	7.402	7.414	(0.873)	78045	25.0000	23.6
44 2,4,5-Trichlorphenol	196	7.461	7.473	(0.880)	85960	25.0000	23.5
45 2-Chloronaphthalene	162	7.673	7.684	(0.905)	226665	25.0000	23.2
46 2-Nitroaniline	65	7.896	7.913	(0.931)	75749	25.0000	24.4
47 Acenaphthylene	152	8.272	8.284	(0.976)	370482	25.0000	24.4
48 Dimethyl phthalate	163	8.231	8.248	(0.971)	264615	25.0000	23.6
49 2,6-Dinitrotoluene	165	8.301	8.319	(0.979)	55953	25.0000	23.3
50 3-Nitroaniline	138	8.466	8.483	(0.999)	68458	25.0000	23.9
51 Acenaphthene (ccc)	153	8.513	8.524	(1.004)	217453	25.0000	23.5
52 2,4-Dinitrophenol ##spcc##	184	8.589	8.601	(1.013)	18136	25.0000	24.6
53 Dibenzofuran	168	8.707	8.718	(1.027)	329059	25.0000	24.0
54 4-Nitrophenol ##spcc##	109	8.701	8.718	(1.026)	41661	25.0000	23.3
55 2,4-Dinitrotoluene	165	8.771	8.789	(1.035)	76398	25.0000	23.6
56 Fluorene	166	9.089	9.100	(1.072)	271050	25.0000	24.0
57 4-Chlorophenyl phenyl ether	204	9.112	9.118	(1.075)	135319	25.0000	23.8
58 Diethyl phthalate	149	9.077	9.089	(1.071)	255385	25.0000	23.1

Data File: /var/chem/gcms/md.i/D021706I.b/icdb172.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
59 4-Nitroaniline	138	9.159	9.188	(1.080)	70367	25.0000	24.2
60 4,6-Dinitro-2-methylphenol	198	9.206	9.230	(0.923)	39794	25.0000	22.0
61 N-Ndpa / diphenylamine (ccc)	169	9.241	9.253	(0.926)	184950	25.0000	24.6
62 1,2-Diphenylhydrazine/azobnz	77	9.265	9.277	(0.929)	275107	25.0000	23.6
63 4-Bromophenyl phenyl ether	248	9.588	9.594	(0.961)	77164	25.0000	24.2
64 Hexachlorobenzene	284	9.711	9.717	(0.973)	96128	25.0000	24.1
65 Pentachlorophenol (ccc)	266	9.876	9.882	(0.990)	56998	25.0000	22.0
66 Phenanthrene	178	9.993	10.005	(1.002)	431632	25.0000	24.6
67 Anthracene	178	10.034	10.040	(1.006)	423732	25.0000	24.8
68 Carbazole	167	10.181	10.187	(1.021)	393765	25.0000	24.1
69 Di-n-butyl phthalate	149	10.522	10.522	(1.055)	449250	25.0000	24.3
70 Fluoranthene (ccc)	202	10.963	10.969	(1.099)	467910	25.0000	25.1
71 Pyrene	202	11.133	11.139	(0.923)	500570	25.0000	24.3
72 Butyl benzyl phthalate	149	11.627	11.633	(0.964)	219692	25.0000	24.0
73 Benzo(a)Anthracene	228	12.050	12.056	(0.999)	514597	25.0000	24.9
74 3,3'-Dichlorobenzidine	252	12.032	12.038	(0.998)	195002	25.0000	24.6
75 Chrysene	228	12.085	12.097	(1.002)	499803	25.0000	24.8
76 Bis(2-ethylhexyl) phthalate	149	12.097	12.103	(1.003)	290328	25.0000	24.7
77 Di-n-octyl phthalate (ccc)	149	12.637	12.643	(0.950)	491826	25.0000	24.5
78 Benzo(b)fluoranthene	252	12.978	12.990	(0.976)	544886	25.0000	26.2
79 Benzo(k)fluoranthene	252	12.996	13.013	(0.977)	522717	25.0000	24.2
80 Benzo(a)pyrene (ccc)	252	13.248	13.260	(0.996)	439686	25.0000	25.6
81 Indeno(1,2,3-cd)pyrene	276	14.318	14.341	(1.077)	479335	25.0000	25.1
82 Dibenz(a,h)anthracene	278	14.324	14.353	(1.077)	389883	25.0000	24.2
83 Benzo(g,h,i)perylene	276	14.606	14.635	(1.099)	392606	25.0000	24.0

Data File: /var/chem/gcms/md.i/D0217061.b/icdb172.d
Date : 17-FEB-2006 12:47
Client ID: VSTD025
Sample Info: ICDB172,,1,2,,VSTD025,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icdb173.d
Report Date: 17-Feb-2006 14:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb173.d
Lab Smp Id: ICDB173 Client Smp ID: VSTD040
Inj Date : 17-FEB-2006 12:24
Operator : 60841 Inst ID: md.i
Smp Info : ICDB173,,1,3,,VSTD040,
Misc Info : D021706I,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 13-FEB-2006 13:37 Cal File: a9db133.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.218	4.218	(1.000)	57197	20.0000	
* 2 Naphthalene-d8	136	5.822	5.828	(1.000)	190829	20.0000	
* 3 Acenaphthene-d10	164	8.477	8.477	(1.000)	126805	20.0000	
* 4 Phenanthrene-d10	188	9.976	9.982	(1.000)	235434	20.0000	
* 5 Chrysene-d12	240	12.062	12.073	(1.000)	260090	20.0000	
* 6 Perylene-d12	264	13.290	13.301	(1.000)	235124	20.0000	
$ 7 2-Fluorophenol	112	3.060	3.066	(0.726)	163802	40.0000	41.0
$ 8 Phenol-d5	99	3.889	3.906	(0.922)	190359	40.0000	39.4
$ 9 Nitrobenzene-d5	82	4.882	4.893	(0.839)	178395	40.0000	41.5
$ 10 2-Fluorobiphenyl	172	7.543	7.555	(0.890)	339614	40.0000	40.6
$ 11 2,4,6-Tribromophenol	330	9.359	9.365	(0.938)	59167	40.0000	39.6
$ 12 Terphenyl-d14	244	11.257	11.257	(0.933)	504352	40.0000	39.9
$ 179 13C6-naphthalene	134	5.845	5.851	(1.004)	514217	40.0000	41.8
$ 180 Pentachlorophenol C13	272	9.876	9.881	(0.990)	87014	40.0000	38.5

Data File: /var/chem/gcms/md.i/D021706I.b/icdb173.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
175 1,4-Dioxane	88	1.891	1.896	(0.448)	136054	100.000	99.0
13 N-Nitrosodimethylamine	74	2.097	2.102	(0.497)	76744	40.0000	40.2
14 Pyridine	79	2.114	2.114	(0.501)	153977	40.0000	40.3
15 Phenol (ccc)	94	3.900	3.918	(0.925)	199267	40.0000	39.1
16 Aniline	93	3.924	3.936	(0.930)	219621	40.0000	38.6
17 Bis(2-chloroethyl)ether	93	3.983	3.994	(0.944)	145015	40.0000	40.6
18 2-Chlorophenol	128	4.035	4.047	(0.957)	151812	40.0000	40.0
19 1,3-Dichlorobenzene	146	4.182	4.188	(0.992)	174567	40.0000	40.2
20 1,4-Dichlorobenzene (ccc)	146	4.235	4.241	(1.004)	178767	40.0000	40.8
21 Benzyl alcohol	108	4.376	4.388	(1.038)	97842	40.0000	38.7
22 1,2-Dichlorobenzene	146	4.429	4.435	(1.050)	169442	40.0000	40.3
23 2-Methylphenol	108	4.517	4.529	(1.071)	142828	40.0000	39.4
24 2,2'-Oxybis(1-Chloropropane)	45	4.558	4.564	(1.081)	241375	40.0000	39.5
25 4-Methylphenol	108	4.694	4.711	(1.113)	152764	40.0000	40.6
26 3&4 Methylphenol	108	4.694	4.711	(1.113)	152764	40.0000	40.6
27 N-Nitroso-di-n-propylamine###	70	4.723	4.741	(1.120)	109577	40.0000	39.0
28 Hexachloroethane	117	4.793	4.793	(1.137)	68702	40.0000	40.3
29 Nitrobenzene	77	4.905	4.917	(0.843)	170731	40.0000	40.9
30 Isophorone	82	5.211	5.228	(0.895)	314190	40.0000	40.6
31 2-Nitrophenol (ccc)	139	5.328	5.334	(0.915)	75619	40.0000	40.0
32 2,4-Dimethyphenol	107	5.399	5.410	(0.927)	173813	40.0000	41.4
33 Bis(2-chloroethoxy)methane	93	5.534	5.546	(0.951)	178675	40.0000	40.1
34 Benzoic acid	122	5.528	5.628	(0.950)	75585	40.0000	35.6
35 2,4-Dichlorophenol (ccc)	162	5.645	5.657	(0.970)	136962	40.0000	41.0
36 1,2,4-Trichlorobenzene	180	5.769	5.775	(0.991)	151592	40.0000	40.8
37 Naphthalene	128	5.845	5.857	(1.004)	455603	40.0000	41.0
38 4-Chloroaniline	127	5.963	5.974	(1.024)	192934	40.0000	40.0
39 Hexachlorobutadiene (ccc)	225	6.121	6.127	(1.051)	110984	40.0000	41.4
40 4-Chloro-3-methylphenol (ccc)	107	6.685	6.691	(1.148)	144793	40.0000	41.3
41 2-Methylnaphthalene	142	6.850	6.856	(1.177)	285827	40.0000	40.1
42 Hexachlorocyclopentadiene####	237	7.255	7.261	(0.856)	113904	40.0000	40.0
43 2,4,6-Trichlorophenol (ccc)	196	7.402	7.414	(0.873)	106017	40.0000	40.9
44 2,4,5-Trichlorphenol	196	7.461	7.473	(0.880)	117067	40.0000	40.8
45 2-Chloronaphthalene	162	7.672	7.684	(0.905)	307592	40.0000	40.3
46 2-Nitroaniline	65	7.896	7.913	(0.931)	99222	40.0000	40.9
47 Acenaphthylene	152	8.272	8.284	(0.976)	498826	40.0000	42.1
48 Dimethyl phthalate	163	8.237	8.248	(0.972)	356698	40.0000	40.6
49 2,6-Dinitrotoluene	165	8.307	8.319	(0.980)	76832	40.0000	41.0
50 3-Nitroaniline	138	8.466	8.483	(0.999)	90955	40.0000	40.5
51 Acenaphthene (ccc)	153	8.513	8.524	(1.004)	295895	40.0000	40.9
52 2,4-Dinitrophenol ##spcc##	184	8.589	8.601	(1.013)	29146	40.0000	38.1
53 Dibenzofuran	168	8.707	8.718	(1.027)	439063	40.0000	41.0
54 4-Nitrophenol ##spcc##	109	8.701	8.718	(1.026)	56334	40.0000	40.2
55 2,4-Dinitrotoluene	165	8.777	8.789	(1.035)	106008	40.0000	42.0
56 Fluorene	166	9.088	9.100	(1.072)	368407	40.0000	41.7
57 4-Chlorophenyl phenyl ether	204	9.112	9.118	(1.075)	182845	40.0000	41.1
58 Diethyl phthalate	149	9.077	9.089	(1.071)	357164	40.0000	41.4

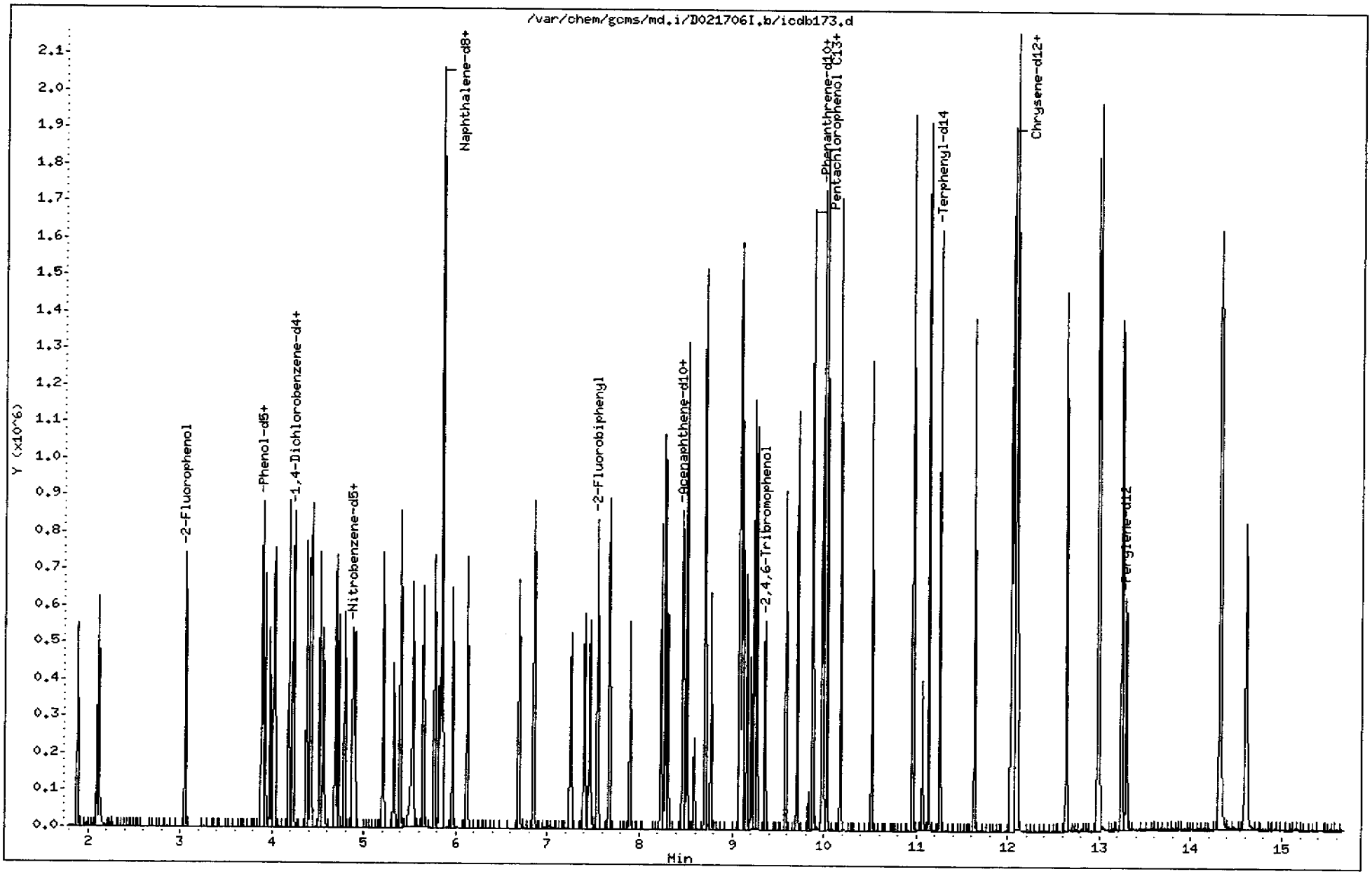
Data File: /var/chem/gcms/md.i/D021706I.b/icdb173.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
59 4-Nitroaniline	138	9.159	9.188	(1.080)	92243	40.0000	40.6
60 4,6-Dinitro-2-methylphenol	198	9.206	9.230	(0.923)	53845	40.0000	36.4
61 N-Ndpa / diphenylamine (ccc)	169	9.241	9.253	(0.926)	242939	40.0000	39.4
62 1,2-Diphenylhydrazine/azobnz	77	9.271	9.277	(0.929)	377876	40.0000	39.6
63 4-Bromophenyl phenyl ether	248	9.588	9.594	(0.961)	106490	40.0000	40.6
64 Hexachlorobenzene	284	9.711	9.717	(0.973)	131052	40.0000	40.0
65 Pentachlorophenol (ccc)	266	9.876	9.882	(0.990)	81844	40.0000	38.6
66 Phenanthrene	178	9.993	10.005	(1.002)	561807	40.0000	39.1
67 Anthracene	178	10.034	10.040	(1.006)	561913	40.0000	40.1
68 Carbazole	167	10.181	10.187	(1.021)	532007	40.0000	39.8
69 Di-n-butyl phthalate	149	10.522	10.522	(1.055)	594870	40.0000	39.2
70 Fluoranthene (ccc)	202	10.963	10.969	(1.099)	624260	40.0000	40.8
71 Pyrene	202	11.133	11.139	(0.923)	669343	40.0000	39.9
72 Butyl benzyl phthalate	149	11.633	11.633	(0.964)	294248	40.0000	39.5
73 Benzo(a)Anthracene	228	12.050	12.056	(0.999)	691877	40.0000	41.1
74 3,3'-Dichlorobenzidine	252	12.032	12.038	(0.998)	260588	40.0000	40.4
75 Chrysene	228	12.085	12.097	(1.002)	677353	40.0000	41.3
76 Bis(2-ethylhexyl) phthalate	149	12.097	12.103	(1.003)	380076	40.0000	39.3
77 Di-n-octyl phthalate (ccc)	149	12.637	12.643	(0.951)	666908	40.0000	38.8
78 Benzo(b)fluoranthene	252	12.978	12.990	(0.977)	816931	40.0000	45.9
79 Benzo(k)fluoranthene	252	12.996	13.013	(0.978)	702993	40.0000	38.0
80 Benzo(a)pyrene (ccc)	252	13.248	13.260	(0.997)	615871	40.0000	41.9
81 Indeno(1,2,3-cd)pyrene	276	14.318	14.341	(1.077)	674196	40.0000	41.3
82 Dibenz(a,h)anthracene	278	14.324	14.353	(1.078)	564477	40.0000	40.9
83 Benzo(g,h,i)perylene	276	14.606	14.635	(1.099)	574150	40.0000	41.1

Data File: /var/chem/gcms/md.i/D021706I.b/icdb173.d
Date : 17-FEB-2006 12:24
Client ID: VSTD040
Sample Info: ICDB173,,1,3,,VSTD040,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icdb174.d
Report Date: 17-Feb-2006 14:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb174.d
Lab Smp Id: ICDB174 Client Smp ID: VSTD060
Inj Date : 17-FEB-2006 12:00
Operator : 60841 Inst ID: md.i
Smp Info : ICDB174,,1,4,,VSTD060,
Misc Info : D021706I,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 13-FEB-2006 13:13 Cal File: a9db134.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.218	4.218	(1.000)	61529	20.0000	
* 2 Naphthalene-d8	136	5.822	5.828	(1.000)	205701	20.0000	
* 3 Acenaphthene-d10	164	8.477	8.477	(1.000)	136276	20.0000	
* 4 Phenanthrene-d10	188	9.976	9.982	(1.000)	241927	20.0000	
* 5 Chrysene-d12	240	12.062	12.073	(1.000)	266257	20.0000	
* 6 Perylene-d12	264	13.295	13.301	(1.000)	243096	20.0000	
$ 7 2-Fluorophenol	112	3.060	3.066	(0.726)	245169	60.0000	57.0
$ 8 Phenol-d5	99	3.889	3.906	(0.922)	294658	60.0000	56.8
$ 9 Nitrobenzene-d5	82	4.882	4.893	(0.838)	271296	60.0000	58.5
$ 10 2-Fluorobiphenyl	172	7.549	7.555	(0.890)	521137	60.0000	58.0
$ 11 2,4,6-Tribromophenol	330	9.359	9.365	(0.938)	87856	60.0000	57.3
$ 12 Terphenyl-d14	244	11.257	11.257	(0.933)	743709	60.0000	57.4
$ 179 13C6-naphthalene	134	5.845	5.851	(1.004)	822716	60.0000	62.1
$ 180 Pentachlorophenol C13	272	9.876	9.881	(0.990)	151579	60.0000	61.8

Data File: /var/chem/gcms/md.i/D021706I.b/icdb174.d
Report Date: 17-Feb-2006 14:09

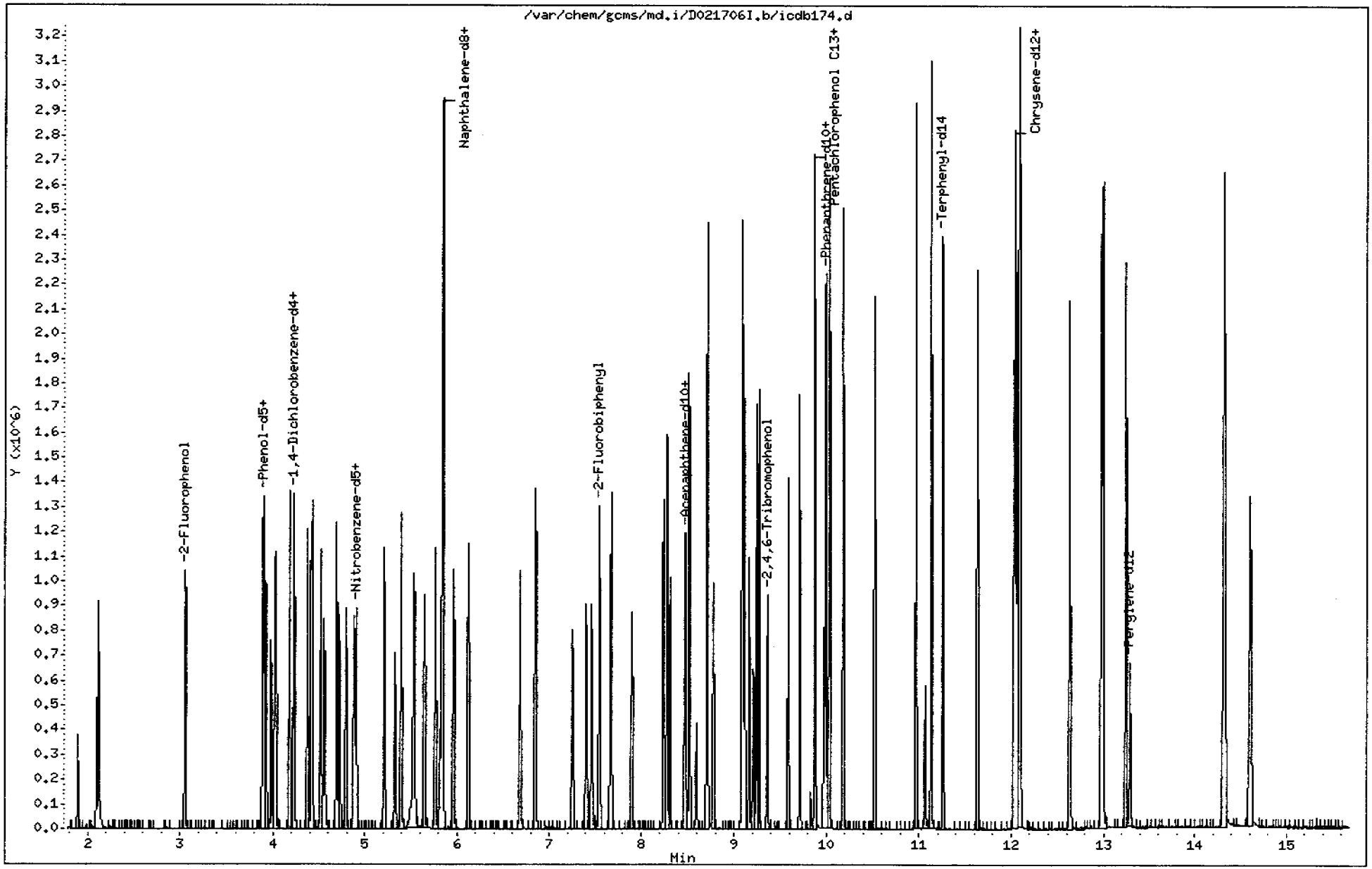
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
175 1,4-Dioxane	88	1.891	1.896	(0.448)	80250	60.0000	54.3
13 N-Nitrosodimethylamine	74	2.097	2.102	(0.497)	113833	60.0000	55.4
14 Pyridine	79	2.114	2.114	(0.501)	222867	60.0000	54.3
15 Phenol (ccc)	94	3.906	3.918	(0.926)	309637	60.0000	56.4
16 Aniline	93	3.930	3.936	(0.932)	338289	60.0000	55.2
17 Bis(2-chloroethyl)ether	93	3.983	3.994	(0.944)	220808	60.0000	57.5
18 2-Chlorophenol	128	4.035	4.047	(0.957)	233379	60.0000	57.2
19 1,3-Dichlorobenzene	146	4.182	4.188	(0.992)	271110	60.0000	58.0
20 1,4-Dichlorobenzene (ccc)	146	4.235	4.241	(1.004)	270082	60.0000	57.2
21 Benzyl alcohol	108	4.376	4.388	(1.038)	154781	60.0000	56.9
22 1,2-Dichlorobenzene	146	4.429	4.435	(1.050)	260594	60.0000	57.6
23 2-Methylphenol	108	4.523	4.529	(1.072)	224322	60.0000	57.6
24 2,2'-Oxybis(1-Chloropropane)	45	4.558	4.564	(1.081)	372575	60.0000	56.6
25 4-Methylphenol	108	4.694	4.711	(1.113)	236176	60.0000	58.3
26 3&4 Methylphenol	108	4.694	4.711	(1.113)	236176	60.0000	58.3
27 N-Nitroso-di-n-propylamine###	70	4.723	4.741	(1.120)	173907	60.0000	57.5
28 Hexachloroethane	117	4.793	4.793	(1.137)	104638	60.0000	57.0
29 Nitrobenzene	77	4.905	4.917	(0.843)	260792	60.0000	58.0
30 Isophorone	82	5.211	5.228	(0.895)	476960	60.0000	57.1
31 2-Nitrophenol (ccc)	139	5.328	5.334	(0.915)	118124	60.0000	57.9
32 2,4-Dimethyphenol	107	5.399	5.410	(0.927)	265501	60.0000	58.7
33 Bis(2-chloroethoxy)methane	93	5.534	5.546	(0.951)	279723	60.0000	58.3
34 Benzoic acid	122	5.545	5.628	(0.953)	136918	60.0000	59.2
35 2,4-Dichlorophenol (ccc)	162	5.651	5.657	(0.971)	215925	60.0000	60.0
36 1,2,4-Trichlorobenzene	180	5.769	5.775	(0.991)	231827	60.0000	57.9
37 Naphthalene	128	5.851	5.857	(1.005)	696149	60.0000	58.1
38 4-Chloroaniline	127	5.963	5.974	(1.024)	290716	60.0000	56.0
39 Hexachlorobutadiene (ccc)	225	6.127	6.127	(1.052)	170694	60.0000	59.1
40 4-Chloro-3-methylphenol (ccc)	107	6.685	6.691	(1.148)	223384	60.0000	59.2
41 2-Methylnaphthalene	142	6.850	6.856	(1.177)	444508	60.0000	57.8
42 Hexachlorocyclopentadiene####	237	7.255	7.261	(0.856)	182701	60.0000	59.7
43 2,4,6-Trichlorophenol (ccc)	196	7.402	7.414	(0.873)	164604	60.0000	59.1
44 2,4,5-Trichlorphenol	196	7.461	7.473	(0.880)	184018	60.0000	59.8
45 2-Chloronaphthalene	162	7.672	7.684	(0.905)	472342	60.0000	57.6
46 2-Nitroaniline	65	7.902	7.913	(0.932)	149951	60.0000	57.5
47 Acenaphthylene	152	8.278	8.284	(0.976)	772181	60.0000	60.6
48 Dimethyl phthalate	163	8.237	8.248	(0.972)	541008	60.0000	57.4
49 2,6-Dinitrotoluene	165	8.307	8.319	(0.980)	116212	60.0000	57.6
50 3-Nitroaniline	138	8.466	8.483	(0.999)	137390	60.0000	57.0
51 Acenaphthene (ccc)	153	8.513	8.524	(1.004)	444440	60.0000	57.1
52 2,4-Dinitrophenol ##spcc##	184	8.589	8.601	(1.013)	50413	60.0000	54.3
53 Dibenzofuran	168	8.707	8.718	(1.027)	652076	60.0000	56.6
54 4-Nitrophenol ##spcc##	109	8.707	8.718	(1.027)	87234	60.0000	58.0
55 2,4-Dinitrotoluene	165	8.777	8.789	(1.035)	156654	60.0000	57.7
56 Fluorene	166	9.088	9.100	(1.072)	556260	60.0000	58.6
57 4-Chlorophenyl phenyl ether	204	9.112	9.118	(1.075)	278463	60.0000	58.3
58 Diethyl phthalate	149	9.083	9.089	(1.071)	527916	60.0000	56.9

Data File: /var/chem/gcms/md.i/D021706I.b/icdb174.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
59 4-Nitroaniline	138	9.165	9.188	(1.081)	136734	60.0000	56.1
60 4,6-Dinitro-2-methylphenol	198	9.212	9.230	(0.923)	83467	60.0000	54.8
61 N-Ndpa / diphenylamine (ccc)	169	9.241	9.253	(0.926)	366767	60.0000	58.0
62 1,2-Diphenylhydrazine/azobnz	77	9.271	9.277	(0.929)	571333	60.0000	58.2
63 4-Bromophenyl phenyl ether	248	9.588	9.594	(0.961)	156564	60.0000	58.2
64 Hexachlorobenzene	284	9.711	9.717	(0.973)	196878	60.0000	58.5
65 Pentachlorophenol (ccc)	266	9.876	9.882	(0.990)	127891	60.0000	58.7
66 Phenanthrene	178	9.999	10.005	(1.002)	846111	60.0000	57.4
67 Anthracene	178	10.034	10.040	(1.006)	851988	60.0000	59.2
68 Carbazole	167	10.181	10.187	(1.021)	780413	60.0000	56.8
69 Di-n-butyl phthalate	149	10.522	10.522	(1.055)	914212	60.0000	58.6
70 Fluoranthene (ccc)	202	10.963	10.969	(1.099)	923217	60.0000	58.8
71 Pyrene	202	11.133	11.139	(0.923)	996274	60.0000	58.0
72 Butyl benzyl phthalate	149	11.633	11.633	(0.964)	436149	60.0000	57.2
73 Benzo(a)Anthracene	228	12.050	12.056	(0.999)	1007624	60.0000	58.4
74 3,3'-Dichlorobenzidine	252	12.032	12.038	(0.998)	389877	60.0000	59.1
75 Chrysene	228	12.085	12.097	(1.002)	964262	60.0000	57.4
76 Bis(2-ethylhexyl) phthalate	149	12.097	12.103	(1.003)	566958	60.0000	56.9
77 Di-n-octyl phthalate (ccc)	149	12.637	12.643	(0.950)	982273	60.0000	55.3
78 Benzo(b)fluoranthene	252	12.984	12.990	(0.977)	1072634	60.0000	58.3
79 Benzo(k)fluoranthene	252	13.002	13.013	(0.978)	1133520	60.0000	59.3
80 Benzo(a)pyrene (ccc)	252	13.248	13.260	(0.996)	928180	60.0000	61.1
81 Indeno(1,2,3-cd)pyrene	276	14.324	14.341	(1.077)	1047266	60.0000	61.9
82 Dibenz(a,h)anthracene	278	14.329	14.353	(1.078)	866969	60.0000	60.8
83 Benzo(g,h,i)perylene	276	14.612	14.635	(1.099)	879929	60.0000	60.9

Data File: /var/chem/gcms/md.i/D021706I.b/icdb174.d
Date : 17-FEB-2006 12:00
Client ID: VSTD060
Sample Info: ICDB174,,1,4,,VSTD060,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icdb175.d
Report Date: 17-Feb-2006 14:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb175.d
Lab Smp Id: ICDB175 Client Smp ID: VSTD120
Inj Date : 17-FEB-2006 11:37
Operator : 60841 Inst ID: md.i
Smp Info : ICDB175,,1,5,,VSTD120,
Misc Info : D021706I,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 13-FEB-2006 12:50 Cal File: a9db135.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.217	4.218	(1.000)	62008	20.0000	
* 2 Naphthalene-d8	136	5.821	5.828	(1.000)	212868	20.0000	
* 3 Acenaphthene-d10	164	8.477	8.477	(1.000)	139591	20.0000	
* 4 Phenanthrene-d10	188	9.981	9.982	(1.000)	251426	20.0000	
* 5 Chrysene-d12	240	12.067	12.073	(1.000)	271608	20.0000	
* 6 Perylene-d12	264	13.295	13.301	(1.000)	236566	20.0000	
$ 7 2-Fluorophenol	112	3.066	3.066	(0.727)	544461	120.000	126
$ 8 Phenol-d5	99	3.900	3.906	(0.925)	673147	120.000	129
$ 9 Nitrobenzene-d5	82	4.887	4.893	(0.840)	602100	120.000	125
$ 10 2-Fluorobiphenyl	172	7.555	7.555	(0.891)	1168722	120.000	127
$ 11 2,4,6-Tribromophenol	330	9.364	9.365	(0.938)	211124	120.000	132
$ 12 Terphenyl-d14	244	11.256	11.257	(0.933)	1661818	120.000	126
$ 179 13C6-naphthalene	134	5.851	5.851	(1.005)	1662848	120.000	121(A)
$ 180 Pentachlorophenol C13	272	9.881	9.881	(0.990)	317721	120.000	120

Data File: /var/chem/gcms/md.i/D021706I.b/icdb175.d
Report Date: 17-Feb-2006 14:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
175 1,4-Dioxane	88	1.896	1.896	(0.450)	3383	2.00000	2.27
13 N-Nitrosodimethylamine	74	2.096	2.102	(0.497)	255661	120.000	124
14 Pyridine	79	2.114	2.114	(0.501)	525047	120.000	127
15 Phenol (ccc)	94	3.912	3.918	(0.928)	705407	120.000	128
16 Aniline	93	3.929	3.936	(0.932)	759668	120.000	123
17 Bis(2-chloroethyl)ether	93	3.988	3.994	(0.946)	488525	120.000	126
18 2-Chlorophenol	128	4.041	4.047	(0.958)	515027	120.000	125
19 1,3-Dichlorobenzene	146	4.182	4.188	(0.992)	572841	120.000	122
20 1,4-Dichlorobenzene (ccc)	146	4.235	4.241	(1.004)	578935	120.000	122
21 Benzyl alcohol	108	4.382	4.388	(1.039)	356555	120.000	130
22 1,2-Dichlorobenzene	146	4.435	4.435	(1.052)	561821	120.000	123
23 2-Methylphenol	108	4.523	4.529	(1.072)	504522	120.000	128
24 2,2'-Oxybis(1-Chloropropane)	45	4.558	4.564	(1.081)	819538	120.000	124
25 4-Methylphenol	108	4.699	4.711	(1.114)	532824	120.000	130
26 3&4 Methylphenol	108	4.699	4.711	(1.114)	532824	120.000	130
27 N-Nitroso-di-n-propylamine###	70	4.734	4.741	(1.123)	382713	120.000	126
28 Hexachloroethane	117	4.793	4.793	(1.137)	226082	120.000	122
29 Nitrobenzene	77	4.911	4.917	(0.844)	570781	120.000	123
30 Isophorone	82	5.222	5.228	(0.897)	1089789	120.000	126
31 2-Nitrophenol (ccc)	139	5.334	5.334	(0.916)	270771	120.000	128
32 2,4-Dimethyphenol	107	5.404	5.410	(0.928)	598474	120.000	128
33 Bis(2-chloroethoxy)methane	93	5.539	5.546	(0.952)	625777	120.000	126
34 Benzoic acid	122	5.586	5.628	(0.960)	338819	120.000	142
35 2,4-Dichlorophenol (ccc)	162	5.657	5.657	(0.972)	478671	120.000	128
36 1,2,4-Trichlorobenzene	180	5.774	5.775	(0.992)	507566	120.000	122
37 Naphthalene	128	5.857	5.857	(1.006)	1543768	120.000	124
38 4-Chloroaniline	127	5.968	5.974	(1.025)	676371	120.000	126
39 Hexachlorobutadiene (ccc)	225	6.127	6.127	(1.052)	369100	120.000	123
40 4-Chloro-3-methylphenol (ccc)	107	6.691	6.691	(1.149)	511199	120.000	131
41 2-Methylnaphthalene	142	6.855	6.856	(1.178)	987924	120.000	124
42 Hexachlorocyclopentadiene####	237	7.261	7.261	(0.857)	418609	120.000	134
43 2,4,6-Trichlorophenol (ccc)	196	7.408	7.414	(0.874)	376996	120.000	132
44 2,4,5-Trichlorphenol	196	7.466	7.473	(0.881)	411690	120.000	130
45 2-Chloronaphthalene	162	7.678	7.684	(0.906)	1069935	120.000	127
46 2-Nitroaniline	65	7.907	7.913	(0.933)	351610	120.000	132
47 Acenaphthylene	152	8.277	8.284	(0.976)	1735427	120.000	133
48 Dimethyl phthalate	163	8.242	8.248	(0.972)	1229613	120.000	127
49 2,6-Dinitrotoluene	165	8.313	8.319	(0.981)	276854	120.000	134
50 3-Nitroaniline	138	8.477	8.483	(1.000)	323790	120.000	131
51 Acenaphthene (ccc)	153	8.518	8.524	(1.005)	1014731	120.000	127
52 2,4-Dinitrophenol ##spcc##	184	8.595	8.601	(1.014)	136842	120.000	124
53 Dibenzofuran	168	8.712	8.718	(1.028)	1505065	120.000	128
54 4-Nitrophenol ##spcc##	109	8.712	8.718	(1.028)	198651	120.000	129
55 2,4-Dinitrotoluene	165	8.783	8.789	(1.036)	370771	120.000	133
56 Fluorene	166	9.094	9.100	(1.073)	1266003	120.000	130
57 4-Chlorophenyl phenyl ether	204	9.112	9.118	(1.075)	619685	120.000	127
58 Diethyl phthalate	149	9.082	9.089	(1.071)	1206544	120.000	127

Data File: /var/chem/gcms/md.i/D021706I.b/icdb175.d
Report Date: 17-Feb-2006 14:09

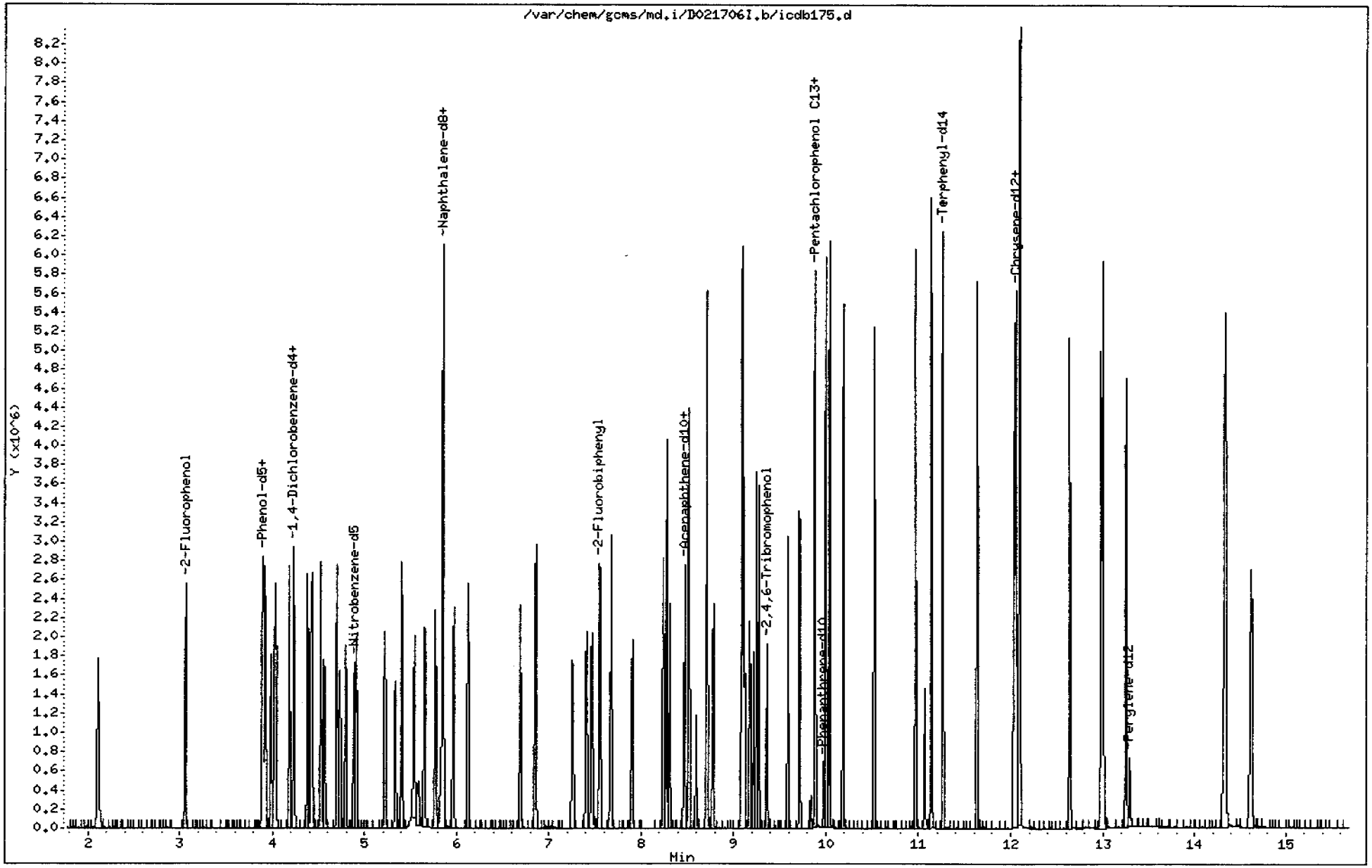
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
59 4-Nitroaniline	138	9.176	9.188	(1.082)	332869	120.000	133
60 4,6-Dinitro-2-methylphenol	198	9.217	9.230	(0.923)	217071	120.000	137
61 N-Ndpa / diphenylamine (ccc)	169	9.247	9.253	(0.926)	837514	120.000	127
62 1,2-Diphenylhydrazine/azobnz	77	9.276	9.277	(0.929)	1295974	120.000	127
63 4-Bromophenyl phenyl ether	248	9.588	9.594	(0.961)	354402	120.000	127
64 Hexachlorobenzene	284	9.717	9.717	(0.974)	436476	120.000	125
65 Pentachlorophenol (ccc)	266	9.881	9.882	(0.990)	295475	120.000	130
66 Phenanthrene	178	9.999	10.005	(1.002)	1919714	120.000	125
67 Anthracene	178	10.040	10.040	(1.006)	1953597	120.000	130
68 Carbazole	167	10.187	10.187	(1.021)	1822916	120.000	128
69 Di-n-butyl phthalate	149	10.522	10.522	(1.054)	2090832	120.000	129
70 Fluoranthene (ccc)	202	10.962	10.969	(1.098)	2137276	120.000	131
71 Pyrene	202	11.133	11.139	(0.923)	2256857	120.000	129
72 Butyl benzyl phthalate	149	11.632	11.633	(0.964)	1007281	120.000	129
73 Benzo(a)Anthracene	228	12.055	12.056	(0.999)	2249273	120.000	128
74 3,3'-Dichlorobenzidine	252	12.032	12.038	(0.997)	859820	120.000	128
75 Chrysene	228	12.091	12.097	(1.002)	2087019	120.000	122
76 Bis(2-ethylhexyl) phthalate	149	12.096	12.103	(1.002)	1308749	120.000	128
77 Di-n-octyl phthalate (ccc)	149	12.643	12.643	(0.951)	2327198	120.000	134
78 Benzo(b)fluoranthene	252	12.984	12.990	(0.977)	2364748	120.000	132
79 Benzo(k)fluoranthene	252	13.007	13.013	(0.978)	2282033	120.000	123
80 Benzo(a)pyrene (ccc)	252	13.254	13.260	(0.997)	1964236	120.000	133
81 Indeno(1,2,3-cd)pyrene	276	14.335	14.341	(1.078)	2179354	120.000	132
82 Dibenz(a,h)anthracene	278	14.341	14.353	(1.079)	1851561	120.000	133
83 Benzo(g,h,i)perylene	276	14.623	14.635	(1.100)	1837744	120.000	131

QC Flag Legend

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

Data File: /var/chem/gcms/md.i/D021706I.b/icdb175.d
Date : 17-FEB-2006 11:37
Client ID: VSTD120
Sample Info: ICDB175,,1,5,,VSTD120,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icdb178.d
Report Date: 17-Feb-2006 14:10

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icdb178.d
Lab Smp Id: ICDB178 Client Smp ID: VSTD200
Inj Date : 17-FEB-2006 11:14
Operator : 60841 Inst ID: md.i
Smp Info : ICDB178,,1,8,,VSTD200,
Misc Info : D021706I,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:09 wilesd Quant Type: ISTD
Cal Date : 13-FEB-2006 12:27 Cal File: a9db138.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.218	4.218	(1.000)	68543	20.0000	
* 2 Naphthalene-d8	136	5.828	5.828	(1.000)	224314	20.0000	
* 3 Acenaphthene-d10	164	8.477	8.477	(1.000)	148472	20.0000	
* 4 Phenanthrene-d10	188	9.982	9.982	(1.000)	263913	20.0000	
* 5 Chrysene-d12	240	12.073	12.073	(1.000)	285436	20.0000	
* 6 Perylene-d12	264	13.301	13.301	(1.000)	241852	20.0000	
$ 7 2-Fluorophenol	112	3.066	3.066	(0.727)	976458	200.000	204(A)
$ 8 Phenol-d5	99	3.906	3.906	(0.926)	1189154	200.000	206(A)
$ 9 Nitrobenzene-d5	82	4.893	4.893	(0.840)	1047958	200.000	207(A)
$ 10 2-Fluorobiphenyl	172	7.555	7.555	(0.891)	1985163	200.000	203(A)
$ 11 2,4,6-Tribromophenol	330	9.365	9.365	(0.938)	358580	200.000	214(A)
$ 12 Terphenyl-d14	244	11.257	11.257	(0.932)	2772926	200.000	200(A)
13 N-Nitrosodimethylamine	74	2.102	2.102	(0.498)	452572	200.000	198(A)
14 Pyridine	79	2.114	2.114	(0.501)	908159	200.000	198(A)

Data File: /var/chem/gcms/md.i/D021706I.b/icdb178.d
Report Date: 17-Feb-2006 14:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
15 Phenol (ccc)	94	3.918	3.918	(0.929)	1342361	200.000	220(A)
16 Aniline	93	3.936	3.936	(0.933)	1318665	200.000	193(A)
17 Bis(2-chloroethyl)ether	93	3.994	3.994	(0.947)	856408	200.000	200(A)
18 2-Chlorophenol	128	4.047	4.047	(0.960)	914256	200.000	201(A)
19 1,3-Dichlorobenzene	146	4.188	4.188	(0.993)	993183	200.000	191(A)
20 1,4-Dichlorobenzene (ccc)	146	4.241	4.241	(1.006)	999638	200.000	190(A)
21 Benzyl alcohol	108	4.388	4.388	(1.040)	623525	200.000	206(A)
22 1,2-Dichlorobenzene	146	4.435	4.435	(1.052)	989028	200.000	196(A)
23 2-Methylphenol	108	4.529	4.529	(1.074)	893707	200.000	206(A)
24 2,2'-Oxybis(1-Chloropropane)	45	4.564	4.564	(1.082)	1445131	200.000	197(A)
25 4-Methylphenol	108	4.711	4.711	(1.117)	936653	200.000	208(A)
26 3&4 Methylphenol	108	4.711	4.711	(1.117)	936653	200.000	208(A)
27 N-Nitroso-di-n-propylamine###	70	4.741	4.741	(1.124)	668666	200.000	198(A)
28 Hexachloroethane	117	4.793	4.793	(1.137)	392358	200.000	192(A)
29 Nitrobenzene	77	4.917	4.917	(0.844)	1007755	200.000	206(A)
30 Isophorone	82	5.228	5.228	(0.897)	1881106	200.000	207(A)
31 2-Nitrophenol (ccc)	139	5.334	5.334	(0.915)	468826	200.000	211(A)
32 2,4-Dimethyphenol	107	5.410	5.410	(0.928)	1058238	200.000	215(A)
33 Bis(2-chloroethoxy)methane	93	5.546	5.546	(0.952)	1092754	200.000	209(A)
34 Benzoic acid	122	5.628	5.628	(0.966)	555534	200.000	218(A)
35 2,4-Dichlorophenol (ccc)	162	5.657	5.657	(0.971)	828510	200.000	211(A)
36 1,2,4-Trichlorobenzene	180	5.775	5.775	(0.991)	870298	200.000	199(A)
37 Naphthalene	128	5.857	5.857	(1.005)	2691668	200.000	206(A)
38 4-Chloroaniline	127	5.974	5.974	(1.025)	1142678	200.000	202(A)
39 Hexachlorobutadiene (ccc)	225	6.127	6.127	(1.051)	617187	200.000	196(A)
40 4-Chloro-3-methylphenol (ccc)	107	6.691	6.691	(1.148)	863389	200.000	210(A)
41 2-Methylnaphthalene	142	6.856	6.856	(1.176)	1714204	200.000	204(A)
42 Hexachlorocyclopentadiene####	237	7.261	7.261	(0.857)	671346	200.000	201(A)
43 2,4,6-Trichlorophenol (ccc)	196	7.414	7.414	(0.875)	643363	200.000	212(A)
44 2,4,5-Trichlorphenol	196	7.473	7.473	(0.881)	712187	200.000	212(A)
45 2-Chloronaphthalene	162	7.684	7.684	(0.906)	1840908	200.000	206(A)
46 2-Nitroaniline	65	7.913	7.913	(0.933)	614486	200.000	216(A)
47 Acenaphthylene	152	8.284	8.284	(0.977)	2954390	200.000	213(A)
48 Dimethyl phthalate	163	8.248	8.248	(0.973)	2108946	200.000	205(A)
49 2,6-Dinitrotoluene	165	8.319	8.319	(0.981)	479321	200.000	218(A)
50 3-Nitroaniline	138	8.483	8.483	(1.001)	559820	200.000	213(A)
51 Acenaphthene (ccc)	153	8.524	8.524	(1.006)	1740109	200.000	205(A)
52 2,4-Dinitrophenol ##spcc##	184	8.601	8.601	(1.015)	241143	200.000	199(A)
53 Dibenzofuran	168	8.718	8.718	(1.028)	2535172	200.000	202(A)
54 4-Nitrophenol ##spcc##	109	8.718	8.718	(1.028)	334719	200.000	204(A)
55 2,4-Dinitrotoluene	165	8.789	8.789	(1.037)	627851	200.000	212(A)
56 Fluorene	166	9.100	9.100	(1.073)	2084636	200.000	202(A)
57 4-Chlorophenyl phenyl ether	204	9.118	9.118	(1.076)	1041970	200.000	200(A)
58 Diethyl phthalate	149	9.089	9.089	(1.072)	2039421	200.000	202(A)
59 4-Nitroaniline	138	9.188	9.188	(1.084)	567347	200.000	214(A)
60 4,6-Dinitro-2-methylphenol	198	9.230	9.230	(0.925)	382737	200.000	230(A)
61 N-Ndpa / diphenylamine (ccc)	169	9.253	9.253	(0.927)	1400618	200.000	203(A)

Data File: /var/chem/gcms/md.i/D021706I.b/icdb178.d
Report Date: 17-Feb-2006 14:10

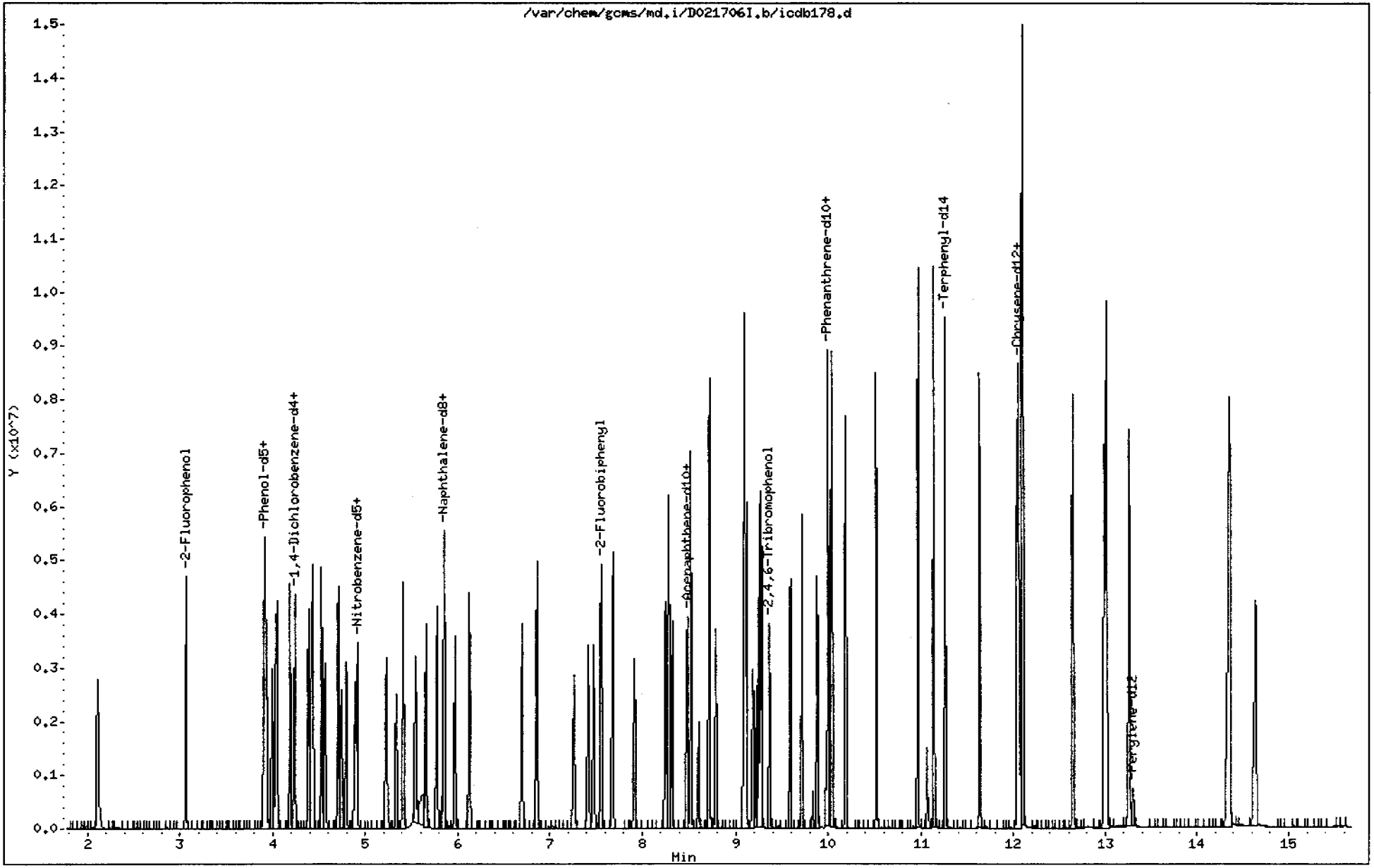
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
62 1,2-Diphenylhydrazine/azobnz	77	9.277	9.277	(0.929)	2278513	200.000	213(A)
63 4-Bromophenyl phenyl ether	248	9.594	9.594	(0.961)	596142	200.000	203(A)
64 Hexachlorobenzene	284	9.717	9.717	(0.974)	731632	200.000	199(A)
65 Pentachlorophenol (ccc)	266	9.882	9.882	(0.990)	517212	200.000	218(A)
66 Phenanthrene	178	10.005	10.005	(1.002)	3214509	200.000	200(A)
67 Anthracene	178	10.040	10.040	(1.006)	3226709	200.000	205(A)
68 Carbazole	167	10.187	10.187	(1.021)	3139315	200.000	209(A)
69 Di-n-butyl phthalate	149	10.522	10.522	(1.054)	3481430	200.000	205(A)
70 Fluoranthene (ccc)	202	10.969	10.969	(1.099)	3476155	200.000	203(A)
71 Pyrene	202	11.139	11.139	(0.923)	3670171	200.000	199(A)
72 Butyl benzyl phthalate	149	11.633	11.633	(0.964)	1690644	200.000	207(A)
73 Benzo(a)Anthracene	228	12.056	12.056	(0.999)	3704112	200.000	200(A)
74 3,3'-Dichlorobenzidine	252	12.038	12.038	(0.997)	1414037	200.000	200(A)
75 Chrysene	228	12.097	12.097	(1.002)	3268057	200.000	181(A)
76 Bis(2-ethylhexyl) phthalate	149	12.103	12.103	(1.002)	2110282	200.000	196(A)
77 Di-n-octyl phthalate (ccc)	149	12.643	12.643	(0.951)	3854965	200.000	218(A)
78 Benzo(b)fluoranthene	252	12.990	12.990	(0.977)	3886239	200.000	212(A)
79 Benzo(k)fluoranthene	252	13.013	13.013	(0.978)	3741793	200.000	197(A)
80 Benzo(a)pyrene (ccc)	252	13.260	13.260	(0.997)	3250631	200.000	215(A)
81 Indeno(1,2,3-cd)pyrene	276	14.341	14.341	(1.078)	3700759	200.000	220(A)
82 Dibenz(a,h)anthracene	278	14.353	14.353	(1.079)	3123257	200.000	220(A)
83 Benzo(g,h,i)perylene	276	14.635	14.635	(1.100)	3129634	200.000	218(A)

QC Flag Legend

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

Data File: /var/chem/gcms/md.i/D021706I.b/icdb178.d
Date : 17-FEB-2006 11:14
Client ID: VSTD200
Sample Info: ICDB178,,1,8,,VSTD200,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Report Date: 17-Feb-2006 14:21

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Lab Smp Id: ICVDB17 Client Smp ID: SECOND SOURCE
Inj Date : 17-FEB-2006 13:57
Operator : 60841 Inst ID: md.i
Smp Info : ICVDB17,,3,,,SECOND SOURCE,
Misc Info : D021706I,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D021706I.b/8270a9.m
Meth Date : 17-Feb-2006 14:20 mcgeek Quant Type: ISTD
Cal Date : 13-FEB-2006 13:13 Cal File: a9db134.d
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	152	4.218	4.218	(1.000)	57006	20.0000	
* 2 Naphthalene-d8	136	5.816	5.822	(1.000)	206949	20.0000	
* 3 Acenaphthene-d10	164	8.477	8.477	(1.000)	134736	20.0000	
* 4 Phenanthrene-d10	188	9.976	9.976	(1.000)	235892	20.0000	
* 5 Chrysene-d12	240	12.062	12.062	(1.000)	256504	20.0000	
* 6 Perylene-d12	264	13.295	13.295	(1.000)	220898	20.0000	
$ 179 13C6-naphthalene	134	5.816	5.845	(1.000)	19144	1.43663	1.44(R)
$ 180 Pentachlorophenol C13	272	9.876	9.876	(0.990)	4319	6.59296	6.59(R)
175 1,4-Dioxane	88	1.891	1.891	(0.448)	72223	52.7536	52.8
13 N-Nitrosodimethylamine	74	2.097	2.097	(0.497)	116165	61.0523	61.0
14 Pyridine	79	2.114	2.114	(0.501)	203977	53.6146	53.6
15 Phenol (ccc)	94	3.900	3.906	(0.925)	272634	53.6413	53.6
16 Aniline	93	3.924	3.930	(0.930)	323270	56.9577	57.0

Data File: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Report Date: 17-Feb-2006 14:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug)
17 Bis(2-chloroethyl)ether	93	3.983	3.983	(0.944)	189601	53.3075	53.3
18 2-Chlorophenol	128	4.036	4.035	(0.957)	208987	55.3063	55.3
19 1,3-Dichlorobenzene	146	4.182	4.182	(0.992)	237222	54.8220	54.8
20 1,4-Dichlorobenzene (ccc)	146	4.235	4.235	(1.004)	243175	55.6302	55.6
21 Benzyl alcohol	108	4.376	4.376	(1.038)	142684	56.6099	56.6
22 1,2-Dichlorobenzene	146	4.429	4.429	(1.050)	228592	54.5639	54.6
23 2-Methylphenol	108	4.517	4.523	(1.071)	200370	55.4950	55.5
24 2,2'-Oxybis(1-Chloropropane)	45	4.558	4.558	(1.081)	337936	55.4396	55.4
25 4-Methylphenol	108	4.694	4.694	(1.113)	216053	57.5619	57.6
26 3&4 Methylphenol	108	4.694	4.694	(1.113)	216053	57.5619	57.6
27 N-Nitroso-di-n-propylamine###	70	4.723	4.723	(1.120)	156423	55.8489	55.8
28 Hexachloroethane	117	4.793	4.793	(1.137)	91882	54.0468	54.0
29 Nitrobenzene	77	4.905	4.905	(0.843)	230737	51.0147	51.0
30 Isophorone	82	5.211	5.211	(0.896)	406286	48.3787	48.4
31 2-Nitrophenol (ccc)	139	5.328	5.328	(0.916)	105818	51.5971	51.6
32 2,4-Dimethyphenol	107	5.399	5.399	(0.928)	230448	50.6627	50.7
33 Bis(2-chloroethoxy)methane	93	5.534	5.534	(0.952)	252588	52.3015	52.3
34 Benzoic acid	122	5.534	5.545	(0.952)	114313	48.6309	48.6
35 2,4-Dichlorophenol (ccc)	162	5.645	5.651	(0.971)	189374	52.3305	52.3
36 1,2,4-Trichlorobenzene	180	5.769	5.769	(0.992)	208720	51.8162	51.8
37 Naphthalene	128	5.845	5.851	(1.005)	607255	50.4091	50.4
38 4-Chloroaniline	127	5.963	5.963	(1.025)	269731	51.6369	51.6
39 Hexachlorobutadiene (ccc)	225	6.121	6.127	(1.053)	140839	48.4578	48.4
40 4-Chloro-3-methylphenol (ccc)	107	6.685	6.685	(1.150)	199859	52.6145	52.6
41 2-Methylnaphthalene	142	6.850	6.850	(1.178)	395684	51.1501	51.2
42 Hexachlorocyclopentadiene####	237	7.255	7.255	(0.856)	152535	50.4376	50.4
43 2,4,6-Trichlorophenol (ccc)	196	7.402	7.402	(0.873)	149304	54.2282	54.2
44 2,4,5-Trichlorphenol	196	7.461	7.461	(0.880)	159893	52.5164	52.5
45 2-Chloronaphthalene	162	7.673	7.672	(0.905)	445275	54.9552	55.0
46 2-Nitroaniline	65	7.896	7.902	(0.931)	132479	51.3830	51.4
47 Acenaphthylene	152	8.278	8.278	(0.976)	708638	56.2352	56.2
48 Dimethyl phthalate	163	8.237	8.237	(0.972)	506822	54.3676	54.4
49 2,6-Dinitrotoluene	165	8.307	8.307	(0.980)	113515	56.9651	57.0
50 3-Nitroaniline	138	8.466	8.466	(0.999)	124022	52.0122	52.0
51 Acenaphthene (ccc)	153	8.513	8.513	(1.004)	411238	53.4624	53.5
52 2,4-Dinitrophenol ##spcc##	184	8.589	8.589	(1.013)	44594	49.7936	49.8
53 Dibenzofuran	168	8.707	8.707	(1.027)	624253	54.8006	54.8
54 4-Nitrophenol ##spcc##	109	8.701	8.707	(1.026)	76212	51.2468	51.2
55 2,4-Dinitrotoluene	165	8.777	8.777	(1.035)	145440	54.1800	54.2
56 Fluorene	166	9.089	9.088	(1.072)	518850	55.3060	55.3
57 4-Chlorophenyl phenyl ether	204	9.112	9.112	(1.075)	265490	56.2187	56.2
58 Diethyl phthalate	149	9.077	9.083	(1.071)	504937	55.0341	55.0
59 4-Nitroaniline	138	9.165	9.165	(1.081)	122567	50.8264	50.8
60 4,6-Dinitro-2-methylphenol	198	9.212	9.212	(0.923)	71107	47.9107	47.9
61 N-Ndpa / diphenylamine (ccc)	169	9.241	9.241	(0.926)	421798	68.3643	68.4
62 1,2-Diphenylhydrazine/azobnz	77	9.271	9.271	(0.929)	496183	51.8543	51.8
63 4-Bromophenyl phenyl ether	248	9.588	9.588	(0.961)	162856	62.0372	62.0

Data File: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Report Date: 17-Feb-2006 14:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug)
64 Hexachlorobenzene	284	9.711	9.711	(0.973)	178700	54.4511	54.4
65 Pentachlorophenol (ccc)	266	9.876	9.876	(0.990)	95540	44.9667	45.0
66 Phenanthrene	178	9.993	9.999	(1.002)	797061	55.4107	55.4
67 Anthracene	178	10.034	10.034	(1.006)	806544	57.4588	57.4
68 Carbazole	167	10.181	10.181	(1.021)	687770	51.3013	51.3
69 Di-n-butyl phthalate	149	10.522	10.522	(1.055)	848843	55.8327	55.8
70 Fluoranthene (ccc)	202	10.963	10.963	(1.099)	831425	54.3075	54.3
71 Pyrene	202	11.133	11.133	(0.923)	907012	54.8371	54.8
72 Butyl benzyl phthalate	149	11.633	11.633	(0.964)	388436	52.8343	52.8
73 Benzo(a)Anthracene	228	12.050	12.050	(0.999)	940046	56.5933	56.6
74 3,3'-Dichlorobenzidine	252	12.032	12.032	(0.998)	359780	56.5865	56.6
75 Chrysene	228	12.085	12.085	(1.002)	901224	55.6650	55.7
76 Bis(2-ethylhexyl) phthalate	149	12.097	12.097	(1.003)	526360	54.8772	54.9
77 Di-n-octyl phthalate (ccc)	149	12.637	12.637	(0.950)	898231	55.6172	55.6
78 Benzo(b)fluoranthene	252	12.978	12.984	(0.976)	993780	59.4836	59.5
79 Benzo(k)fluoranthene	252	12.996	13.002	(0.977)	968979	55.8077	55.8
80 Benzo(a)pyrene (ccc)	252	13.248	13.248	(0.996)	849710	61.5328	61.5
81 Indeno(1,2,3-cd)pyrene	276	14.318	14.324	(1.077)	904194	58.8148	58.8
82 Dibenz(a,h)anthracene	278	14.330	14.329	(1.078)	752109	57.9758	58.0
83 Benzo(g,h,i)perylene	276	14.606	14.612	(1.099)	761487	58.0008	58.0

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Report Date: 17-Feb-2006 14:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: icvdb17.d
Lab Smp Id: ICVDB17
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D021706I.b/8270a9.m
Misc Info: D021706I,8270a9,8270dxnC13.sub

Calibration Date: 17-FEB-2006
Calibration Time: 12:00
Client Smp ID: SECOND SOURCE
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61529	30764	123058	57006	-7.35
2 Naphthalene-d8	205701	102850	411402	206949	0.61
3 Acenaphthene-d10	136276	68138	272552	134736	-1.13
4 Phenanthrene-d10	241927	120964	483854	235892	-2.49
5 Chrysene-d12	266257	133128	532514	256504	-3.66
6 Perylene-d12	243096	121548	486192	220898	-9.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.22	3.72	4.72	4.22	0.00
2 Naphthalene-d8	5.82	5.32	6.32	5.82	-0.10
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.98	9.48	10.48	9.98	0.00
5 Chrysene-d12	12.06	11.56	12.56	12.06	0.00
6 Perylene-d12	13.30	12.80	13.80	13.30	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: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Report Date: 17-Feb-2006 14:21

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICVDB17
Level: LOW
Data Type: MS DATA
SpikeList File: 8270ss.spk
Sublist File: 8270dxnC13.sub
Method File: /var/chem/gcms/md.i/D021706I.b/8270a9.m
Misc Info: D021706I,8270a9,8270dxnC13.sub

Client SDG: D021706I
Fraction: SV
Client Smp ID: SECOND SOURCE
Operator: 60841
SampleType: BLANK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	60.0	0.00	*	70-130
$ 8 Phenol-d5	60.0	0.00	*	70-130
$ 9 Nitrobenzene-d5	60.0	0.00	*	70-130
$ 10 2-Fluorobiphenyl	60.0	0.00	*	70-130
$ 11 2,4,6-Tribromophe	60.0	0.00	*	70-130
$ 12 Terphenyl-d14	60.0	0.00	*	70-130
175 1,4-Dioxane	60.0	52.8	87.92	70-130
13 N-Nitrosodimethyla	60.0	61.0	101.75	70-130
14 Pyridine	60.0	53.6	89.36	70-130
15 Phenol (ccc)	60.0	53.6	89.40	70-130
16 Aniline	60.0	57.0	94.93	70-130
17 Bis(2-chloroethyl)	60.0	53.3	88.85	70-130
18 2-Chlorophenol	60.0	55.3	92.18	70-130
19 1,3-Dichlorobenzen	60.0	54.8	91.37	70-130
20 1,4-Dichlorobenzen	60.0	55.6	92.72	70-130
21 Benzyl alcohol	60.0	56.6	94.35	70-130
22 1,2-Dichlorobenzen	60.0	54.6	90.94	70-130
23 2-Methylphenol	60.0	55.5	92.49	70-130
24 2,2'-Oxybis(1-Chlo	60.0	55.4	92.40	70-130
25 4-Methylphenol	60.0	57.6	95.94	70-130
26 3&4 Methylphenol	60.0	57.6	95.94	70-130
27 N-Nitroso-di-n-pro	60.0	55.8	93.08	70-130
28 Hexachloroethane	60.0	54.0	90.08	70-130
29 Nitrobenzene	60.0	51.0	85.02	70-130
30 Isophorone	60.0	48.4	80.63	70-130
31 2-Nitrophenol (ccc	60.0	51.6	86.00	70-130
32 2,4-Dimethyphenol	60.0	50.7	84.44	70-130
33 Bis(2-chloroethoxy	60.0	52.3	87.17	70-130
34 Benzoic acid	60.0	48.6	81.05	70-130
35 2,4-Dichlorophenol	60.0	52.3	87.22	70-130
36 1,2,4-Trichloroben	60.0	51.8	86.36	70-130
37 Naphthalene	60.0	50.4	84.02	70-130
38 4-Chloroaniline	60.0	51.6	86.06	70-130

NA
RPM 2/17/06

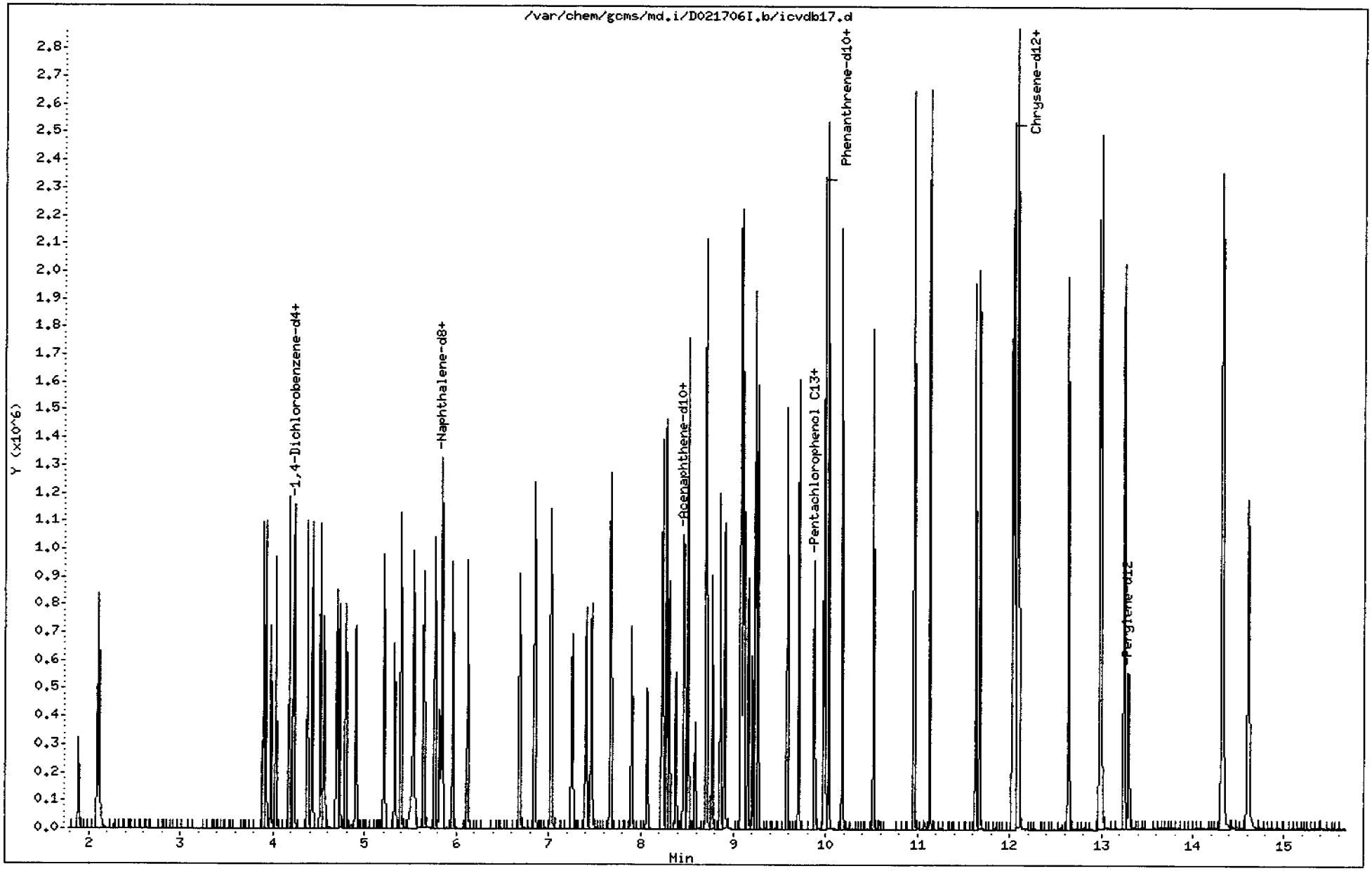
Data File: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Report Date: 17-Feb-2006 14:21

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
39 Hexachlorobutadien	60.0	48.4	80.76	70-130
40 4-Chloro-3-methylp	60.0	52.6	87.69	70-130
41 2-Methylnaphthalen	60.0	51.2	85.25	70-130
42 Hexachlorocyclopen	60.0	50.4	84.06	70-130
43 2,4,6-Trichlorophe	60.0	54.2	90.38	70-130
44 2,4,5-Trichlorphen	60.0	52.5	87.53	70-130
45 2-Chloronaphthalen	60.0	55.0	91.59	70-130
46 2-Nitroaniline	60.0	51.4	85.64	70-130
47 Acenaphthylene	60.0	56.2	93.73	70-130
48 Dimethyl phthalate	60.0	54.4	90.61	70-130
49 2,6-Dinitrotoluene	60.0	57.0	94.94	70-130
50 3-Nitroaniline	60.0	52.0	86.69	70-130
51 Acenaphthene (ccc)	60.0	53.5	89.10	70-130
52 2,4-Dinitrophenol	60.0	49.8	82.99	70-130
53 Dibenzofuran	60.0	54.8	91.33	70-130
54 4-Nitrophenol ##sp	60.0	51.2	85.41	70-130
55 2,4-Dinitrotoluene	60.0	54.2	90.30	70-130
56 Fluorene	60.0	55.3	92.18	70-130
57 4-Chlorophenyl phe	60.0	56.2	93.70	70-130
58 Diethyl phthalate	60.0	55.0	91.72	70-130
59 4-Nitroaniline	60.0	50.8	84.71	70-130
60 4,6-Dinitro-2-meth	60.0	47.9	79.85	70-130
61 N-Ndpa / diphenyla	60.0	68.4	113.94	70-130
62 1,2-Diphenylhydraz	60.0	51.8	86.42	70-130
63 4-Bromophenyl phen	60.0	62.0	103.40	70-130
64 Hexachlorobenzene	60.0	54.4	90.75	70-130
65 Pentachlorophenol	60.0	45.0	74.94	70-130
66 Phenanthrene	60.0	55.4	92.35	70-130
67 Anthracene	60.0	57.4	95.76	70-130
68 Carbazole	60.0	51.3	85.50	70-130
69 Di-n-butyl phthala	60.0	55.8	93.05	70-130
70 Fluoranthene (ccc)	60.0	54.3	90.51	70-130
71 Pyrene	60.0	54.8	91.40	70-130
72 Butyl benzyl phtha	60.0	52.8	88.06	70-130
73 Benzo(a)Anthracene	60.0	56.6	94.32	70-130
74 3,3'-Dichlorobenzi	60.0	56.6	94.31	70-130
75 Chrysene	60.0	55.7	92.77	70-130
76 Bis(2-ethylhexyl)	60.0	54.9	91.46	70-130
77 Di-n-octyl phthala	60.0	55.6	92.70	70-130
78 Benzo(b)fluoranthe	60.0	59.5	99.14	70-130
79 Benzo(k)fluoranthe	60.0	55.8	93.01	70-130
80 Benzo(a)pyrene (cc	60.0	61.5	102.55	70-130
85 Benzo(e)pyrene	60.0	0.00	*	~~70-130~~ NA
81 Indeno(1,2,3-cd)py	60.0	58.8	98.02	70-130
82 Dibenz(a,h)anthrac	60.0	58.0	96.63	70-130
83 Benzo(g,h,i)peryle	60.0	58.0	96.67	70-130

RDM 2/17/06

Data File: /var/chem/gcms/md.i/D021706I.b/icvdb17.d
Date : 17-FEB-2006 13:57
Client ID: SECOND SOURCE
Sample Info: ICVDB17,,3,,,SECOND SOURCE,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9dc091.d
Report Date: 09-Mar-2006 16:31

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9dc091.d
Lab Smp Id: A9DC091 Client Smp ID: VSTD010
Inj Date : 09-MAR-2006 15:00
Operator : 60841 Inst ID: md.i
Smp Info : A9DC091,,1,1,,VSTD010,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:30 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 15:00 Cal File: a9dc091.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

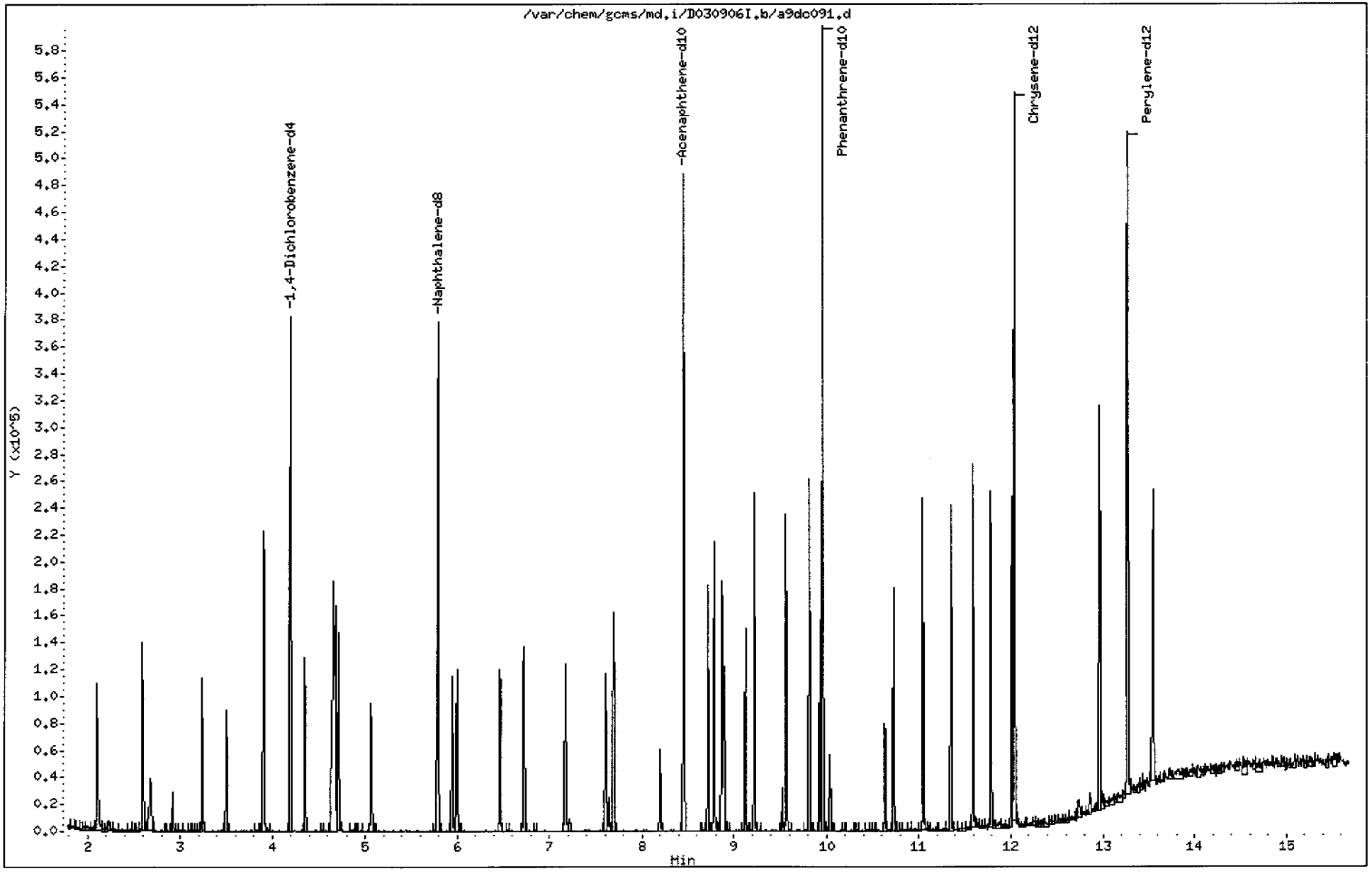
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.194	4.194	(1.000)	54132	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	185377	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	114134	20.0000	
* 4 Phenanthrene-d10	188	9.958	9.958	(1.000)	192718	20.0000	
* 5 Chrysene-d12	240	12.038	12.038	(1.000)	182654	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	168227	20.0000	
176 2-Picoline	93	2.590	2.590	(0.618)	32227	10.0000	10.0
86 N-nitrosomethylethylamine	42	2.678	2.678	(0.639)	21035	10.0000	10.2
87 Methyl methanosulfonate	80	2.919	2.919	(0.696)	7882	10.0000	10.4
88 N-nitrosodiethylamine	102	3.242	3.242	(0.773)	14925	10.0000	9.85
89 Ethyl methanosulfonate	79	3.507	3.507	(0.836)	23119	10.0000	10.1
90 Pentachloroethane	167	3.912	3.912	(0.933)	13984	10.0000	10.4
91 acetophenone	105	4.658	4.658	(1.111)	46836	10.0000	10.3
92 m-cresol	108	4.682	4.682	(1.116)	34203	10.0000	10.2
93 n-nitrosopyrrolidine	100	4.646	4.646	(1.108)	18213	10.0000	10.4

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc091.d
Report Date: 09-Mar-2006 16:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94 n-nitrosomorpholine	56	4.670	4.670	(1.113)	24377	10.0000	9.94
95 o-toluidine	106	4.717	4.717	(1.125)	43041	10.0000	9.51
96 n-nitrosopiperidine	42	5.064	5.064	(0.874)	27994	10.0000	10.4
97 2,6-dichlorophenol	162	5.951	5.951	(1.027)	30062	10.0000	10.5
98 hexachloropropene	213	5.998	5.998	(1.036)	24257	10.0000	10.3
99 N-nitro-di-n-butylamine	84	6.468	6.468	(1.117)	20371	10.0000	10.1
100 Isosafrole	162	6.726	6.726	(1.161)	26847	10.0000	10.5
101 1,2,4,5-tetrachlorobenzene	216	7.173	7.173	(1.238)	32249	10.0000	10.2
102 safrole	162	7.608	7.608	(0.900)	28270	10.0000	9.71
103 1-chloronaphthalene	162	7.696	7.696	(0.910)	60460	10.0000	10.2
104 m-dinitrobenzene	76	8.201	8.201	(0.970)	7808	10.0000	8.21
105 pentachlorobenzene	250	8.718	8.718	(1.031)	30524	10.0000	10.4
106 1-naphthylamine	143	8.783	8.783	(1.039)	64031	10.0000	10.2
107 2-naphthylamine	143	8.865	8.865	(1.049)	64016	10.0000	10.4
108 2,3,4,6-tetrachlorophenol	232	8.895	8.895	(1.052)	15763	10.0000	8.58
109 5-nitro-o-toluidine	152	9.124	9.124	(1.079)	19091	10.0000	9.67
110 diphenylamine	169	9.224	9.224	(1.091)	60097	10.0000	10.0
111 1,3,5-trinitrobenzene	75	9.523	9.523	(0.956)	7901	10.0000	14.2
112 phenacetin	108	9.564	9.564	(0.960)	37136	10.0000	10.7
113 4-aminobiphenyl	169	9.811	9.811	(0.985)	78078	10.0000	10.5
114 pentachloronitrobenzene	237	9.923	9.923	(0.996)	10109	10.0000	10.4
115 Dinoseb	211	10.034	10.034	(1.008)	9564	10.0000	8.00
84 Benzidine	184	11.045	11.045	(1.109)	79536	10.0000	10.1
116 p-(dimethylamino)azobenzene	120	11.351	11.351	(1.140)	29593	10.0000	10.2
117 o-tolidine	212	11.591	11.591	(1.164)	84259	10.0000	10.4
119 7,12-dimethylbenz(a)anthracen	256	12.966	12.966	(1.077)	52692	10.0000	10.4
118 2-acetylaminofluorene	181	11.785	11.785	(0.979)	48481	10.0000	10.1
120 3-methylcholanthrene	268	13.548	13.548	(1.021)	54542	10.0000	10.4

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc091.d
Date : 09-MAR-2006 15:00
Client ID: VSTD010
Sample Info: A9DC091,,1,1,,VSTD010,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9dc092.d
Report Date: 09-Mar-2006 16:30

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9dc092.d
Lab Smp Id: A9DC092 Client Smp ID: VSTD025
Inj Date : 09-MAR-2006 14:36
Operator : 60841 Inst ID: md.i
Smp Info : A9DC092,,1,2,,VSTD025,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:30 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 14:36 Cal File: a9dc092.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.194	4.194	(1.000)	49158	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	172667	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	101680	20.0000	
* 4 Phenanthrene-d10	188	9.958	9.958	(1.000)	182038	20.0000	
* 5 Chrysene-d12	240	12.044	12.044	(1.000)	168827	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	162242	20.0000	
176 2-Picoline	93	2.590	2.590	(0.618)	72177	25.0000	24.7
86 N-nitrosomethylethylamine	42	2.678	2.678	(0.639)	44691	25.0000	23.9
87 Methyl methanosulfonate	80	2.919	2.919	(0.696)	17433	25.0000	25.4
88 N-nitrosodiethylamine	102	3.242	3.242	(0.773)	32966	25.0000	24.0
89 Ethyl methanosulfonate	79	3.507	3.507	(0.836)	53394	25.0000	25.7
90 Pentachloroethane	167	3.912	3.912	(0.933)	30790	25.0000	25.2
91 acetophenone	105	4.658	4.658	(1.111)	103690	25.0000	25.1
92 m-cresol	108	4.682	4.682	(1.116)	73480	25.0000	24.3
93 n-nitrosopyrrolidine	100	4.646	4.646	(1.108)	38415	25.0000	24.1

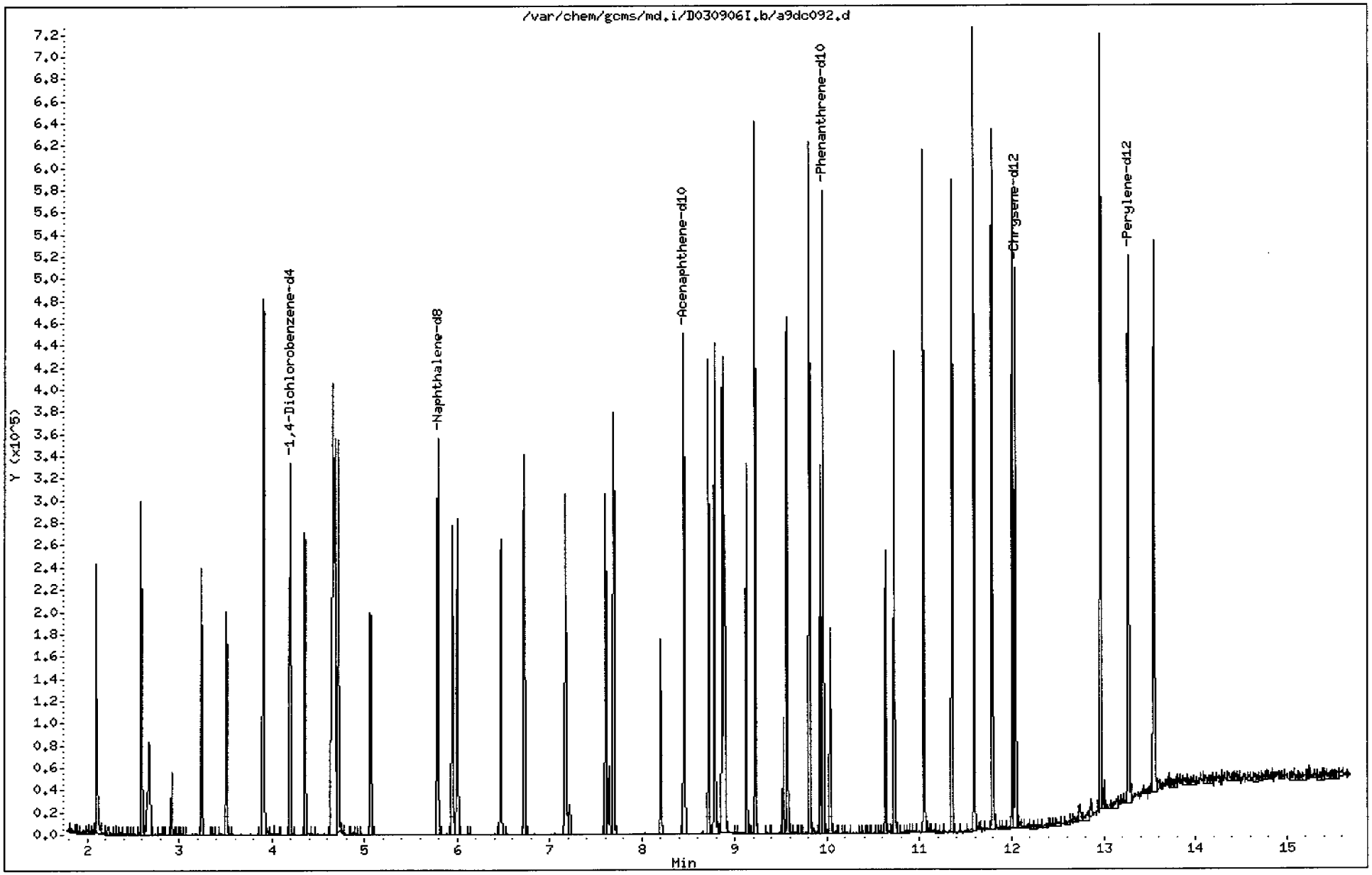
Data File: /var/chem/gcms/md.i/D030906I.b/a9dc092.d
Report Date: 09-Mar-2006 16:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94 n-nitrosomorpholine	56	4.670	4.670	(1.113)	54802	25.0000	24.6
95 o-toluidine	106	4.717	4.717	(1.125)	104468	25.0000	25.4
96 n-nitrosopiperidine	42	5.064	5.064	(0.874)	61812	25.0000	24.6
97 2,6-dichlorophenol	162	5.951	5.951	(1.027)	67170	25.0000	25.2
98 hexachloropropene	213	5.998	5.998	(1.036)	56340	25.0000	25.7
99 N-nitro-di-n-butylamine	84	6.474	6.474	(1.118)	45740	25.0000	24.4
100 Isosafrole	162	6.726	6.726	(1.161)	59225	25.0000	24.9
101 1,2,4,5-tetrachlorobenzene	216	7.173	7.173	(1.238)	75319	25.0000	25.5
102 safrole	162	7.608	7.608	(0.900)	68487	25.0000	26.4
103 1-chloronaphthalene	162	7.696	7.696	(0.910)	140744	25.0000	26.5
104 m-dinitrobenzene	76	8.201	8.201	(0.970)	20778	25.0000	24.5
105 pentachlorobenzene	250	8.718	8.718	(1.031)	67907	25.0000	25.9
106 1-naphthylamine	143	8.783	8.783	(1.039)	144455	25.0000	25.9
107 2-naphthylamine	143	8.871	8.871	(1.049)	146422	25.0000	26.8
108 2,3,4,6-tetrachlorophenol	232	8.894	8.894	(1.052)	41698	25.0000	25.5
109 5-nitro-o-toluidine	152	9.124	9.124	(1.079)	47652	25.0000	27.1
110 diphenylamine	169	9.223	9.223	(1.091)	139703	25.0000	26.2
111 1,3,5-trinitrobenzene	75	9.529	9.529	(0.957)	22517	25.0000	25.9
112 phenacetin	108	9.570	9.570	(0.961)	83111	25.0000	25.4
113 4-aminobiphenyl	169	9.811	9.811	(0.985)	173815	25.0000	24.8
114 pentachloronitrobenzene	237	9.929	9.929	(0.997)	22635	25.0000	24.6
115 Dinoseb	211	10.034	10.034	(1.008)	24902	25.0000	22.0
84 Benzidine	184	11.045	11.045	(1.109)	187746	25.0000	25.2
116 p-(dimethylamino)azobenzene	120	11.350	11.350	(1.140)	69968	25.0000	25.5
117 o-tolidine	212	11.591	11.591	(1.164)	194062	25.0000	25.5
119 7,12-dimethylbenz(a)anthracen	256	12.966	12.966	(1.077)	121802	25.0000	25.9
118 2-acetylaminofluorene	181	11.791	11.791	(0.979)	118628	25.0000	26.6
120 3-methylcholanthrene	268	13.548	13.548	(1.021)	128738	25.0000	25.4

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc092.d
Date : 09-MAR-2006 14:36
Client ID: VSTD025
Sample Info: A9DC092,,1,2,,VSTD025,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9dc093.d
Report Date: 09-Mar-2006 16:30

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9dc093.d
Lab Smp Id: A9DC093 Client Smp ID: VSTD040
Inj Date : 09-MAR-2006 14:11
Operator : 60841 Inst ID: md.i
Smp Info : A9DC093,,1,3,,VSTD040,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:30 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 14:11 Cal File: a9dc093.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

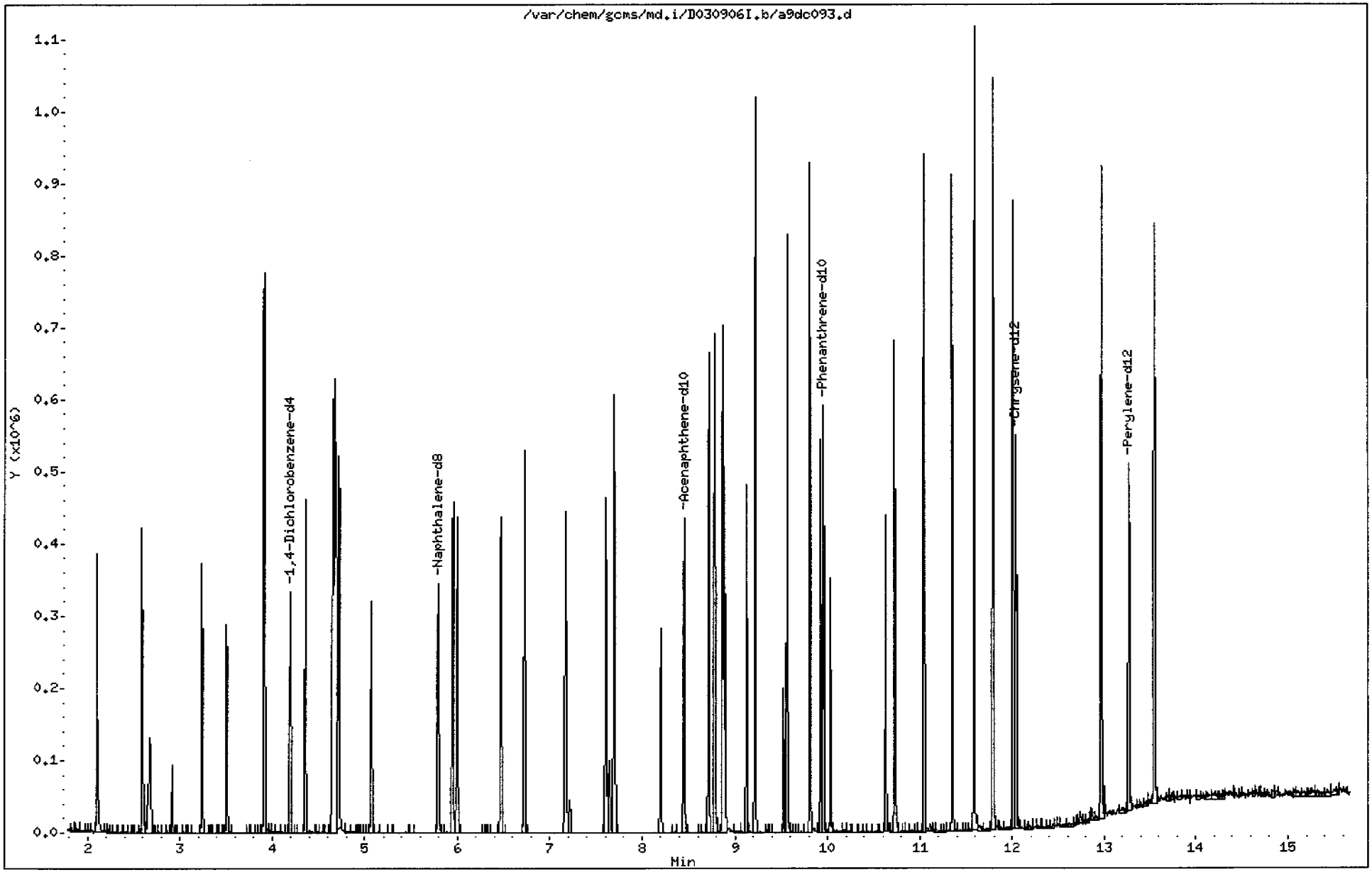
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.194	4.194	(1.000)	47034	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	170191	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	103517	20.0000	
* 4 Phenanthrene-d10	188	9.958	9.958	(1.000)	174781	20.0000	
* 5 Chrysene-d12	240	12.044	12.044	(1.000)	173060	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	166781	20.0000	
176 2-Picoline	93	2.590	2.590	(0.618)	117176	40.0000	42.0
86 N-nitrosomethylethylamine	42	2.678	2.678	(0.639)	73990	40.0000	41.3
87 Methyl methanosulfonate	80	2.919	2.919	(0.696)	27205	40.0000	41.5
88 N-nitrosodiethylamine	102	3.242	3.242	(0.773)	53974	40.0000	41.0
89 Ethyl methanosulfonate	79	3.507	3.507	(0.836)	80989	40.0000	40.7
90 Pentachloroethane	167	3.912	3.912	(0.933)	47011	40.0000	40.2
91 acetophenone	105	4.664	4.664	(1.112)	159766	40.0000	40.4
92 m-cresol	108	4.688	4.688	(1.118)	113602	40.0000	39.2
93 n-nitrosopyrrolidine	100	4.647	4.647	(1.108)	61070	40.0000	40.0

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc093.d
Report Date: 09-Mar-2006 16:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94 n-nitrosomorpholine	56	4.670	4.670	(1.113)	87099	40.0000	40.9
95 o-toluidine	106	4.717	4.717	(1.125)	156392	40.0000	39.8
96 n-nitrosopiperidine	42	5.070	5.070	(0.875)	97679	40.0000	39.4
97 2,6-dichlorophenol	162	5.951	5.951	(1.027)	104675	40.0000	39.8
98 hexachloropropene	213	5.998	5.998	(1.036)	88221	40.0000	40.8
99 N-nitro-di-n-butylamine	84	6.474	6.474	(1.118)	77736	40.0000	42.1
100 Isosafrole	162	6.726	6.726	(1.161)	94584	40.0000	40.3
101 1,2,4,5-tetrachlorobenzene	216	7.173	7.173	(1.238)	116694	40.0000	40.1
102 safrole	162	7.608	7.608	(0.900)	105161	40.0000	39.8
103 1-chloronaphthalene	162	7.696	7.696	(0.910)	215681	40.0000	39.9
104 m-dinitrobenzene	76	8.201	8.201	(0.970)	34137	40.0000	39.6
105 pentachlorobenzene	250	8.718	8.718	(1.031)	107105	40.0000	40.1
106 1-naphthylamine	143	8.783	8.783	(1.039)	227047	40.0000	40.0
107 2-naphthylamine	143	8.871	8.871	(1.049)	210152	40.0000	37.8
108 2,3,4,6-tetrachlorophenol	232	8.895	8.895	(1.052)	67088	40.0000	40.3
109 5-nitro-o-toluidine	152	9.130	9.130	(1.080)	71307	40.0000	39.8
110 diphenylamine	169	9.224	9.224	(1.091)	217938	40.0000	40.2
111 1,3,5-trinitrobenzene	75	9.529	9.529	(0.957)	35609	40.0000	37.3
112 phenacetin	108	9.570	9.570	(0.961)	127784	40.0000	40.6
113 4-aminobiphenyl	169	9.811	9.811	(0.985)	278045	40.0000	41.3
114 pentachloronitrobenzene	237	9.929	9.929	(0.997)	36393	40.0000	41.3
115 Dinoseb	211	10.034	10.034	(1.008)	43231	40.0000	39.9
84 Benzidine	184	11.045	11.045	(1.109)	291517	40.0000	40.7
116 p-(dimethylamino)azobenzene	120	11.351	11.351	(1.140)	108757	40.0000	41.3
117 o-tolidine	212	11.591	11.591	(1.164)	298877	40.0000	40.9
119 7,12-dimethylbenz(a)anthracen	256	12.972	12.972	(1.077)	188932	40.0000	39.3
118 2-acetylaminofluorene	181	11.791	11.791	(0.979)	179478	40.0000	39.3
120 3-methylcholanthrene	268	13.554	13.554	(1.021)	202429	40.0000	38.9

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc093.d
Date : 09-MAR-2006 14:11
Client ID: VSTD040
Sample Info: A9DC093,,1,3,,VSTD040,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9dc094.d
Report Date: 09-Mar-2006 16:30

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9dc094.d
Lab Smp Id: A9DC094 Client Smp ID: VSTD060
Inj Date : 09-MAR-2006 13:47
Operator : 60841 Inst ID: md.i
Smp Info : A9DC094,,1,4,,VSTD060,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:30 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 13:47 Cal File: a9dc094.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

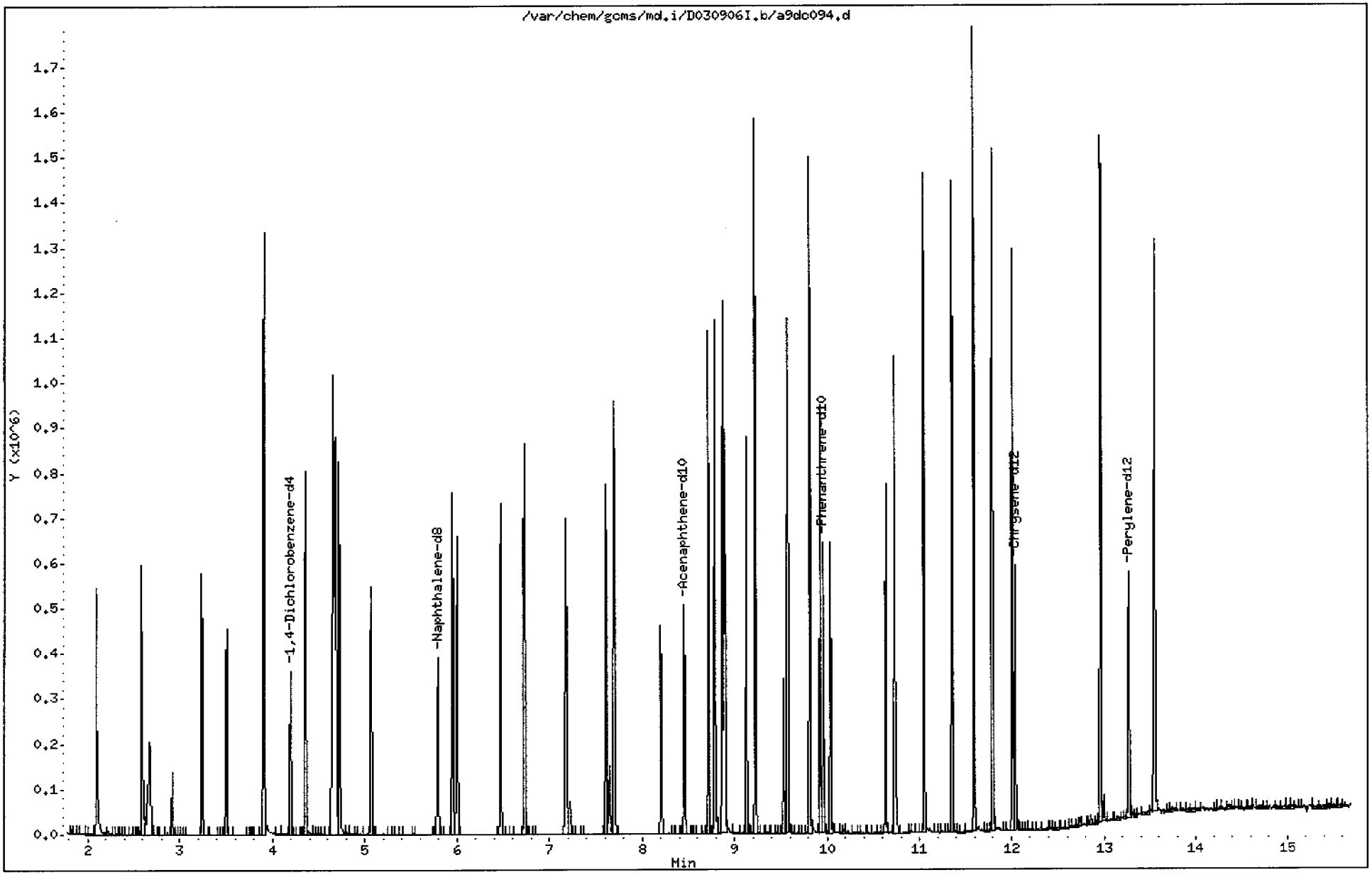
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.194	4.194	(1.000)	50110	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	185157	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	113373	20.0000	
* 4 Phenanthrene-d10	188	9.958	9.958	(1.000)	197295	20.0000	
* 5 Chrysene-d12	240	12.044	12.044	(1.000)	190741	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	181067	20.0000	
176 2-Picoline	93	2.590	2.590	(0.618)	177364	60.0000	59.6
86 N-nitrosomethylethylamine	42	2.678	2.678	(0.639)	113630	60.0000	59.6
87 Methyl methanosulfonate	80	2.919	2.919	(0.696)	42051	60.0000	60.2
88 N-nitrosodiethylamine	102	3.242	3.242	(0.773)	85676	60.0000	61.1
89 Ethyl methanosulfonate	79	3.513	3.513	(0.837)	125698	60.0000	59.3
90 Pentachloroethane	167	3.912	3.912	(0.933)	75915	60.0000	61.0
91 acetophenone	105	4.664	4.664	(1.112)	252781	60.0000	60.0
92 m-cresol	108	4.688	4.688	(1.118)	187402	60.0000	60.7
93 n-nitrosopyrrolidine	100	4.652	4.652	(1.109)	98969	60.0000	60.8

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc094.d
Report Date: 09-Mar-2006 16:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94	n-nitrosomorpholine	56	4.676	4.676	(1.115)	135440	60.0000	59.6
95	o-toluidine	106	4.723	4.723	(1.126)	248154	60.0000	59.2
96	n-nitrosopiperidine	42	5.070	5.070	(0.875)	161794	60.0000	60.0
97	2,6-dichlorophenol	162	5.951	5.951	(1.027)	166762	60.0000	58.3
98	hexachloropropene	213	5.998	5.998	(1.036)	136094	60.0000	57.9
99	N-nitro-di-n-butylamine	84	6.474	6.474	(1.118)	117274	60.0000	58.4
100	Isosafrole	162	6.726	6.726	(1.161)	150989	60.0000	59.2
101	1,2,4,5-tetrachlorobenzene	216	7.173	7.173	(1.238)	185206	60.0000	58.4
102	safrole	162	7.608	7.608	(0.900)	171357	60.0000	59.2
103	1-chloronaphthalene	162	7.696	7.696	(0.910)	345258	60.0000	58.4
104	m-dinitrobenzene	76	8.201	8.201	(0.970)	57324	60.0000	60.7
105	pentachlorobenzene	250	8.718	8.718	(1.031)	170681	60.0000	58.3
106	1-naphthylamine	143	8.789	8.789	(1.040)	363738	60.0000	58.5
107	2-naphthylamine	143	8.871	8.871	(1.049)	353518	60.0000	58.1
108	2,3,4,6-tetrachlorophenol	232	8.895	8.895	(1.052)	110406	60.0000	60.5
109	5-nitro-o-toluidine	152	9.130	9.130	(1.080)	111667	60.0000	56.9
110	diphenylamine	169	9.224	9.224	(1.091)	351211	60.0000	59.2
111	1,3,5-trinitrobenzene	75	9.529	9.529	(0.957)	66714	60.0000	56.5
112	phenacetin	108	9.576	9.576	(0.962)	207575	60.0000	58.4
113	4-aminobiphenyl	169	9.811	9.811	(0.985)	441388	60.0000	58.1
114	pentachloronitrobenzene	237	9.929	9.929	(0.997)	56674	60.0000	57.0
115	Dinoseb	211	10.034	10.034	(1.008)	77857	60.0000	63.6
84	Benzidine	184	11.045	11.045	(1.109)	495871	60.0000	61.3
116	p-(dimethylamino)azobenzene	120	11.351	11.351	(1.140)	176709	60.0000	59.5
117	o-tolidine	212	11.591	11.591	(1.164)	497146	60.0000	60.3
119	7,12-dimethylbenz(a)anthracen	256	12.966	12.966	(1.077)	310812	60.0000	58.6
118	2-acetylaminofluorene	181	11.791	11.791	(0.979)	301509	60.0000	60.0
120	3-methylcholanthrene	268	13.554	13.554	(1.021)	341449	60.0000	60.4

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc094.d
Date : 09-MAR-2006 13:47
Client ID: VSTD060
Sample Info: A9DC094,,1,4,,VSTD060,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9dc095.d
Report Date: 09-Mar-2006 16:30

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9dc095.d
Lab Smp Id: A9DC095 Client Smp ID: VSTD120
Inj Date : 09-MAR-2006 13:23
Operator : 60841 Inst ID: md.i
Smp Info : A9DC095,,1,5,,VSTD120,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:30 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 13:23 Cal File: a9dc095.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

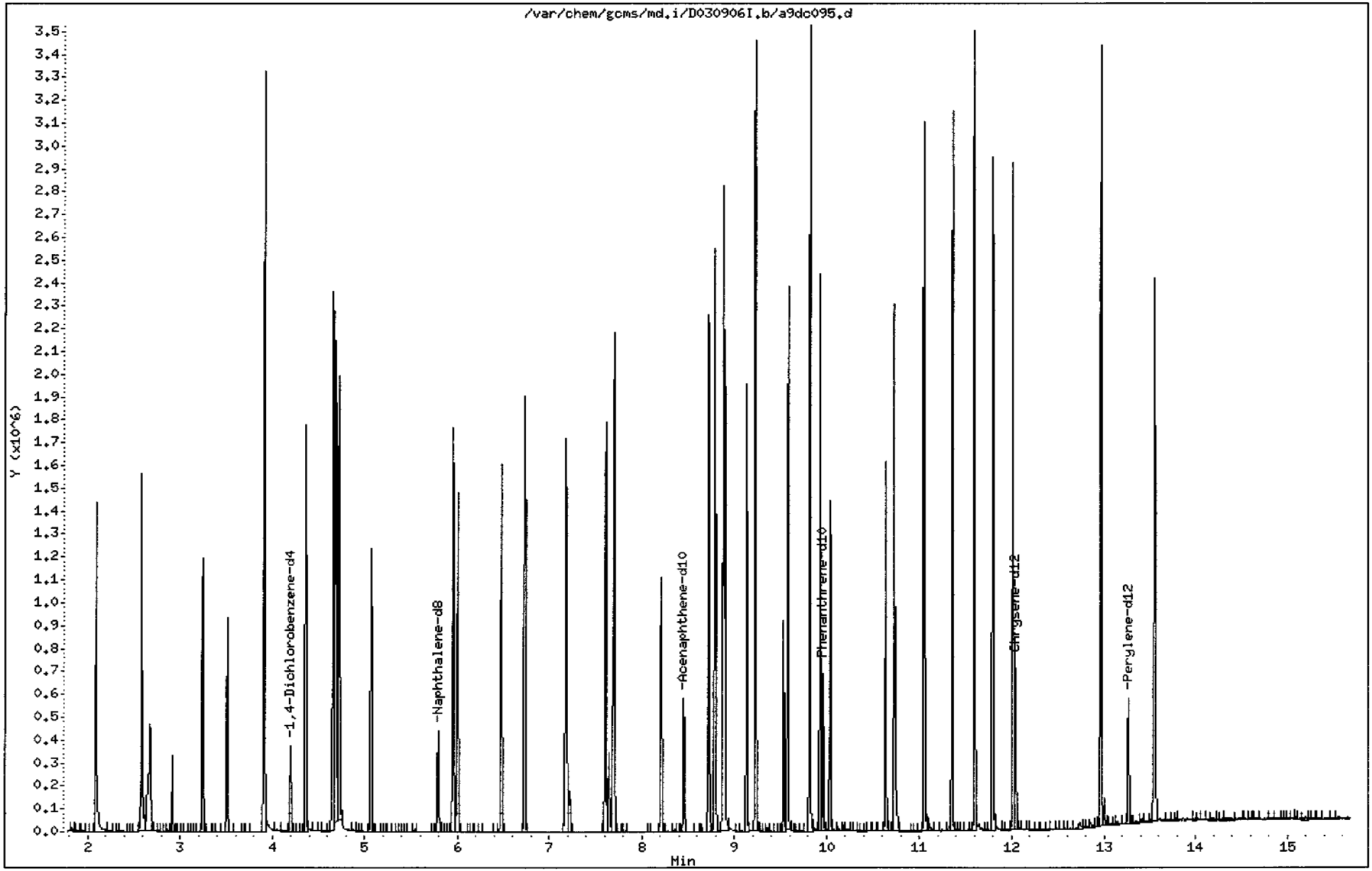
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.200	4.200	(1.000)	57528	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	213764	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	133155	20.0000	
* 4 Phenanthrene-d10	188	9.964	9.964	(1.000)	228604	20.0000	
* 5 Chrysene-d12	240	12.044	12.044	(1.000)	203446	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	186131	20.0000	
176 2-Picoline	93	2.584	2.584	(0.615)	387579	120.000	114
86 N-nitrosomethylethylamine	42	2.678	2.678	(0.638)	259011	120.000	118
87 Methyl methanosulfonate	80	2.925	2.925	(0.696)	94380	120.000	118
88 N-nitrosodiethylamine	102	3.248	3.248	(0.773)	197614	120.000	123
89 Ethyl methanosulfonate	79	3.513	3.513	(0.836)	288123	120.000	118
90 Pentachloroethane	167	3.912	3.912	(0.931)	161277	120.000	113
91 acetophenone	105	4.670	4.670	(1.112)	571622	120.000	118
92 m-cresol	108	4.694	4.694	(1.117)	437421	120.000	123
93 n-nitrosopyrrolidine	100	4.658	4.658	(1.109)	228019	120.000	122

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc095.d
Report Date: 09-Mar-2006 16:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94	n-nitrosomorpholine	56	4.682	4.682	(1.115)	315630	120.000	121
95	o-toluidine	106	4.729	4.729	(1.126)	594804	120.000	124
96	n-nitrosopiperidine	42	5.075	5.075	(0.876)	369685	120.000	119
97	2,6-dichlorophenol	162	5.951	5.951	(1.027)	387571	120.000	117
98	hexachloropropene	213	6.004	6.004	(1.037)	308648	120.000	114
99	N-nitro-di-n-butylamine	84	6.480	6.480	(1.119)	274490	120.000	118
100	Isosafrole	162	6.732	6.732	(1.162)	341443	120.000	116
101	1,2,4,5-tetrachlorobenzene	216	7.179	7.179	(1.239)	428977	120.000	117
102	safrole	162	7.614	7.614	(0.901)	399341	120.000	118
103	1-chloronaphthalene	162	7.702	7.702	(0.911)	794190	120.000	114
104	m-dinitrobenzene	76	8.207	8.207	(0.971)	147250	120.000	133
105	pentachlorobenzene	250	8.724	8.724	(1.032)	390482	120.000	114
106	1-naphthylamine	143	8.789	8.789	(1.040)	865607	120.000	118
107	2-naphthylamine	143	8.877	8.877	(1.050)	843891	120.000	118
108	2,3,4,6-tetrachlorophenol	232	8.895	8.895	(1.052)	267787	120.000	125
109	5-nitro-o-toluidine	152	9.135	9.135	(1.081)	273500	120.000	119
110	diphenylamine	169	9.229	9.229	(1.092)	809054	120.000	116
111	1,3,5-trinitrobenzene	75	9.535	9.535	(0.957)	179276	120.000	120
112	phenacetin	108	9.582	9.582	(0.962)	474607	120.000	115
113	4-aminobiphenyl	169	9.817	9.817	(0.985)	1037235	120.000	118
114	pentachloronitrobenzene	237	9.929	9.929	(0.996)	135739	120.000	118
115	Dinoseb	211	10.034	10.034	(1.007)	191628	120.000	135
84	Benzidine	184	11.051	11.051	(1.109)	1009160	120.000	108
116	p-(dimethylamino)azobenzene	120	11.356	11.356	(1.140)	393357	120.000	114
117	o-tolidine	212	11.597	11.597	(1.164)	1038256	120.000	109
119	7,12-dimethylbenz(a)anthracen	256	12.972	12.972	(1.077)	642402	120.000	114
118	2-acetylaminofluorene	181	11.797	11.797	(0.980)	607404	120.000	113
120	3-methylcholanthrene	268	13.560	13.560	(1.022)	674341	120.000	116

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc095.d
Date : 09-MAR-2006 13:23
Client ID: VSTD120
Sample Info: A9DC095,,1,5,,VSTD120,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9dc098.d
Report Date: 09-Mar-2006 16:32

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9dc098.d
Lab Smp Id: A9DC098 Client Smp ID: VSTD200
Inj Date : 09-MAR-2006 12:59
Operator : 60841 Inst ID: md.i
Smp Info : A9DC098,,1,8,,VSTD200,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:32 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.200	4.200	(1.000)	45925	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	163779	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	98455	20.0000	
* 4 Phenanthrene-d10	188	9.964	9.964	(1.000)	170203	20.0000	
* 5 Chrysene-d12	240	12.044	12.044	(1.000)	160875	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	156686	20.0000	
176 2-Picoline	93	2.590	2.590	(0.617)	554975	200.000	204(A)
86 N-nitrosomethylethylamine	42	2.684	2.684	(0.639)	353283	200.000	202(A)
87 Methyl methanosulfonate	80	2.925	2.925	(0.696)	116777	200.000	182(A)
88 N-nitrosodiethylamine	102	3.248	3.248	(0.773)	254460	200.000	198(A)
89 Ethyl methanosulfonate	79	3.518	3.518	(0.838)	375433	200.000	193(A)
90 Pentachloroethane	167	3.912	3.912	(0.931)	226132	200.000	198(A)
91 acetophenone	105	4.670	4.670	(1.112)	747433	200.000	194(A)
92 m-cresol	108	4.699	4.699	(1.119)	555266	200.000	196(A)
93 n-nitrosopyrrolidine	100	4.664	4.664	(1.111)	288853	200.000	194(A)

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc098.d
Report Date: 09-Mar-2006 16:32

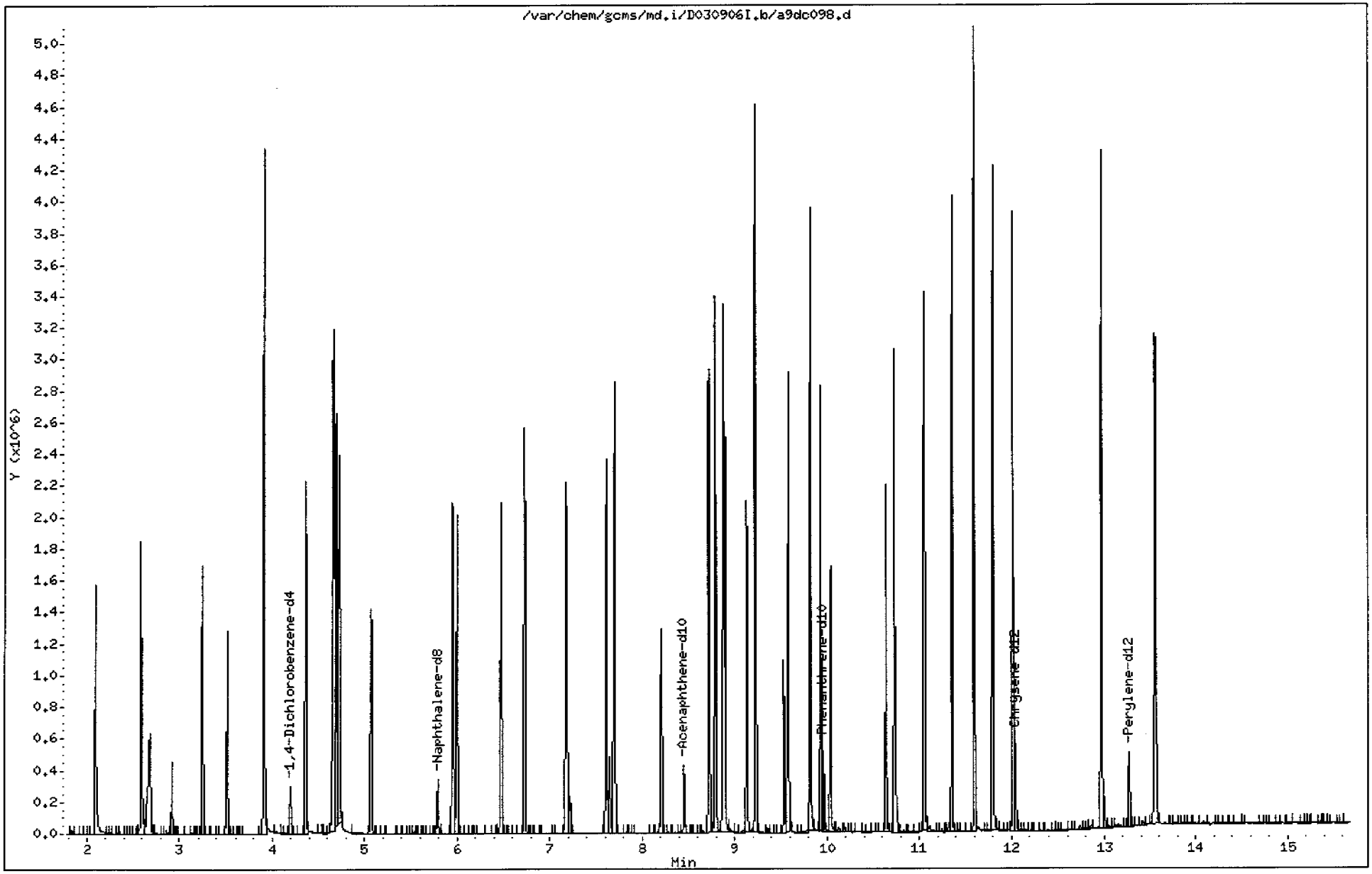
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94 n-nitrosomorpholine	56	4.688	4.688	(1.116)	415044	200.000	199(A)
95 o-toluidine	106	4.729	4.729	(1.126)	781518	200.000	204(A)
96 n-nitrosopiperidine	42	5.075	5.075	(0.876)	480594	200.000	201(A)
97 2,6-dichlorophenol	162	5.957	5.957	(1.028)	503351	200.000	199(A)
98 hexachloropropene	213	6.004	6.004	(1.037)	418011	200.000	201(A)
99 N-nitro-di-n-butylamine	84	6.480	6.480	(1.119)	353393	200.000	199(A)
100 Isosafrole	162	6.732	6.732	(1.162)	447426	200.000	198(A)
101 1,2,4,5-tetrachlorobenzene	216	7.179	7.179	(1.239)	566886	200.000	202(A)
102 safrole	162	7.614	7.614	(0.901)	506937	200.000	202(A)
103 1-chloronaphthalene	162	7.702	7.702	(0.911)	1028538	200.000	200(A)
104 m-dinitrobenzene	76	8.207	8.207	(0.971)	178549	200.000	218(A)
105 pentachlorobenzene	250	8.724	8.724	(1.032)	512011	200.000	201(A)
106 1-naphthylamine	143	8.795	8.795	(1.040)	1055256	200.000	195(A)
107 2-naphthylamine	143	8.877	8.877	(1.050)	1039370	200.000	197(A)
108 2,3,4,6-tetrachlorophenol	232	8.900	8.900	(1.053)	337354	200.000	213(A)
109 5-nitro-o-toluidine	152	9.135	9.135	(1.081)	346215	200.000	203(A)
110 diphenylamine	169	9.229	9.229	(1.092)	1015079	200.000	197(A)
111 1,3,5-trinitrobenzene	75	9.535	9.535	(0.957)	230279	200.000	201(A)
112 phenacetin	108	9.588	9.588	(0.962)	591518	200.000	193(A)
113 4-aminobiphenyl	169	9.817	9.817	(0.985)	1280122	200.000	195(A)
114 pentachloronitrobenzene	237	9.929	9.929	(0.996)	173722	200.000	202(A)
115 Dinoseb	211	10.040	10.040	(1.008)	239566	200.000	227(A)
84 Benzidine	184	11.051	11.051	(1.109)	1464948	200.000	210(A)
116 p-(dimethylamino)azobenzene	120	11.356	11.356	(1.140)	501837	200.000	196(A)
117 o-tolidine	212	11.597	11.597	(1.164)	1425719	200.000	200(A)
119 7,12-dimethylbenz(a)anthracen	256	12.972	12.972	(1.077)	912842	200.000	204(A)
118 2-acetylaminofluorene	181	11.803	11.803	(0.980)	848955	200.000	200(A)
120 3-methylcholanthrene	268	13.566	13.566	(1.022)	972331	200.000	199(A)

QC Flag Legend

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

Data File: /var/chem/gcms/md.i/D030906I.b/a9dc098.d
Date : 09-MAR-2006 12:59
Client ID: VSTD200
Sample Info: A9DC098,,1,8,,VSTD200,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Report Date: 09-Mar-2006 16:59

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Lab Smp Id: A9VDC09 Client Smp ID: SECOND SOURCE
Inj Date : 09-MAR-2006 15:24
Operator : 60841 Inst ID: md.i
Smp Info : A9VDC09,,3,,,SECOND SOURCE,
Misc Info : D030906I,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D030906I.b/8270a9.m
Meth Date : 09-Mar-2006 16:48 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.194	4.200	(1.000)	47319	20.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	174134	20.0000	
* 3 Acenaphthene-d10	164	8.454	8.454	(1.000)	110145	20.0000	
* 4 Phenanthrene-d10	188	9.958	9.964	(1.000)	186517	20.0000	
* 5 Chrysene-d12	240	12.044	12.044	(1.000)	180612	20.0000	
* 6 Perylene-d12	264	13.272	13.272	(1.000)	163302	20.0000	
176 2-Picoline	93	2.584	2.590	(0.616)	191784	68.2890	68.3
86 N-nitrosomethylethylamine	42	2.678	2.684	(0.639)	105341	58.4998	58.5
87 Methyl methanosulfonate	80	2.919	2.925	(0.696)	94751	143.750	144(R) NA
88 N-nitrosodiethylamine	102	3.242	3.248	(0.773)	80109	60.4950	60.5
89 Ethyl methanosulfonate	79	3.507	3.518	(0.836)	119251	59.6198	59.6
90 Pentachloroethane	167	3.912	3.912	(0.933)	70776	60.1875	60.2
91 acetophenone	105	4.664	4.670	(1.112)	232884	58.5821	58.6
92 m-cresol	108	4.717	4.699	(1.125)	15500	5.31896	5.32(R) NA

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Data File: /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Report Date: 09-Mar-2006 16:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
93	n-nitrosopyrrolidine	100	4.646	4.664	(1.108)	92098	59.9606	60.0
94	n-nitrosomorpholine	56	4.670	4.688	(1.113)	132997	62.0277	62.0
95	o-toluidine	106	4.717	4.729	(1.125)	243618	61.6050	61.6
96	n-nitrosopiperidine	42	5.064	5.075	(0.874)	144555	56.9781	57.0
97	2,6-dichlorophenol	162	5.951	5.957	(1.027)	151380	56.3038	56.3
98	hexachloropropene	213	5.998	6.004	(1.036)	118369	53.5664	53.6
99	N-nitro-di-n-butylamine	84	6.474	6.480	(1.118)	110127	58.3333	58.3
100	Isosafrole	162	6.726	6.732	(1.161)	140973	58.7654	58.8
101	1,2,4,5-tetrachlorobenzene	216	7.173	7.179	(1.238)	179323	60.1711	60.2
102	safrole	162	7.608	7.614	(0.900)	151641	53.9771	54.0
103	1-chloronaphthalene	162	7.696	7.702	(0.910)	325771	56.6743	56.7
104	m-dinitrobenzene	76	7.925	8.207	(0.937)	59621	64.9954	~~65.0~~
105	pentachlorobenzene	250	8.718	8.724	(1.031)	161201	56.7056	56.7
106	1-naphthylamine	143	8.789	8.795	(1.040)	351767	58.2436	58.2
107	2-naphthylamine	143	8.871	8.877	(1.049)	361987	61.2364	61.2
109	5-nitro-o-toluidine	152	9.130	9.135	(1.080)	103102	54.1028	54.1
110	diphenylamine	169	9.077	9.229	(1.074)	8176	1.41812	1.42(R) NA
111	1,3,5-trinitrobenzene	75	9.529	9.535	(0.957)	57358	52.1239	52.1
112	phenacetin	108	9.570	9.588	(0.961)	185485	55.2367	55.2
113	4-aminobiphenyl	169	9.811	9.817	(0.985)	406424	56.5537	56.6
114	pentachloronitrobenzene	237	9.929	9.929	(0.997)	53384	56.7441	56.7
84	Benzidine	184	11.045	11.051	(1.109)	431297	56.4145	56.4
116	p-(dimethylamino)azobenzene	120	11.350	11.356	(1.140)	168939	60.1864	60.2
117	o-tolidine	212	11.597	11.597	(1.165)	846951	108.616	109(R) NA
119	7,12-dimethylbenz(a)anthracen	256	12.972	12.972	(1.077)	290092	57.7610	57.8
118	2-acetylaminofluorene	181	11.791	11.803	(0.979)	290670	61.0428	61.0
120	3-methylcholanthrene	268	13.554	13.566	(1.021)	316603	62.1551	62.2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 3/9/06

Data File: /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Report Date: 09-Mar-2006 16:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: a9vdc09.d
Lab Smp Id: A9VDC09
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D030906I.b/8270a9.m
Misc Info: D030906I,8270a9,appdx9.sub

Calibration Date: 09-MAR-2006
Calibration Time: 13:47
Client Smp ID: SECOND SOURCE
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	50110	25055	100220	47319	-5.57
2 Naphthalene-d8	185157	92578	370314	174134	-5.95
3 Acenaphthene-d10	113373	56686	226746	110145	-2.85
4 Phenanthrene-d10	197295	98648	394590	186517	-5.46
5 Chrysene-d12	190741	95370	381482	180612	-5.31
6 Perylene-d12	181067	90534	362134	163302	-9.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.19	3.69	4.69	4.19	0.00
2 Naphthalene-d8	5.79	5.29	6.29	5.79	0.00
3 Acenaphthene-d10	8.45	7.95	8.95	8.45	0.00
4 Phenanthrene-d10	9.96	9.46	10.46	9.96	0.00
5 Chrysene-d12	12.04	11.54	12.54	12.04	0.00
6 Perylene-d12	13.27	12.77	13.77	13.27	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: /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Report Date: 09-Mar-2006 16:59

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: A9VDC09
Level: LOW
Data Type: MS DATA
SpikeList File: a9lcs.spk
Sublist File: appdx9.sub
Method File: /var/chem/gcms/md.i/D030906I.b/8270a9.m
Misc Info: D030906I,8270a9,appdx9.sub

Client SDG: D030906I
Fraction: SV
Client Smp ID: SECOND SOURCE
Operator: 60841
SampleType: BLANK
Quant Type: ISTD

no guarantee by vendor.
KRM 3/9/06

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
86	N-nitrosomethyleth	60.0	58.5	97.50	70-130	
87	Methyl methanosulf	60.0	144	239.58*	70-130	
88	N-nitrosodiethylam	60.0	60.5	100.82	70-130	
89	Ethyl methanosulfo	60.0	59.6	99.37	70-130	
90	Pentachloroethane	60.0	60.2	100.31	70-130	
91	acetophenone	60.0	58.6	97.64	70-130	
92	m-cresol	60.0	5.32	~~8.86*~~	~~70-130~~	NA
93	n-nitrosopyrrolidi	60.0	60.0	99.93	70-130	
94	n-nitrosomorpholin	60.0	62.0	103.38	70-130	
95	o-toluidine	60.0	61.6	102.68	70-130	
96	n-nitrosopiperidin	60.0	57.0	94.96	70-130	
97	2,6-dichlorophenol	60.0	56.3	93.84	70-130	
98	hexachloropropene	60.0	53.6	89.28	70-130	
99	N-nitro-di-n-butyl	60.0	58.3	97.22	70-130	
100	Isosafrole	60.0	58.8	97.94	70-130	
101	1,2,4,5-tetrachlor	60.0	60.2	100.29	70-130	
102	safrole	60.0	54.0	89.96	70-130	
103	1-chloronaphthalen	60.0	56.7	94.46	70-130	
104	m-dinitrobenzene	60.0	65.0	~~108.33~~	~~70-130~~	NA
105	pentachlorobenzene	60.0	56.7	94.51	70-130	
106	1-naphthylamine	60.0	58.2	97.07	70-130	
107	2-naphthylamine	60.0	61.2	102.06	70-130	
108	2,3,4,6-tetrachlo	60.0	0.00	~~*~~	~~70-130~~	NA
109	5-nitro-o-toluidin	60.0	54.1	90.17	70-130	
110	diphenylamine	60.0	1.42	~~2.36*~~	~~70-130~~	NA
111	1,3,5-trinitrobenz	60.0	52.1	86.87	70-130	
112	phenacetin	60.0	55.2	92.06	70-130	
113	4-aminobiphenyl	60.0	56.6	94.26	70-130	
114	pentachloronitrobe	60.0	56.7	94.57	70-130	
115	Dinoseb	60.0	0.00	~~*~~	~~70-130~~	NA
84	Benzidine	60.0	56.4	94.02	70-130	
116	p-(dimethylamino)a	60.0	60.2	100.31	70-130	
118	2-acetylaminofluor	60.0	61.0	101.74	70-130	

KRM 3/9/06

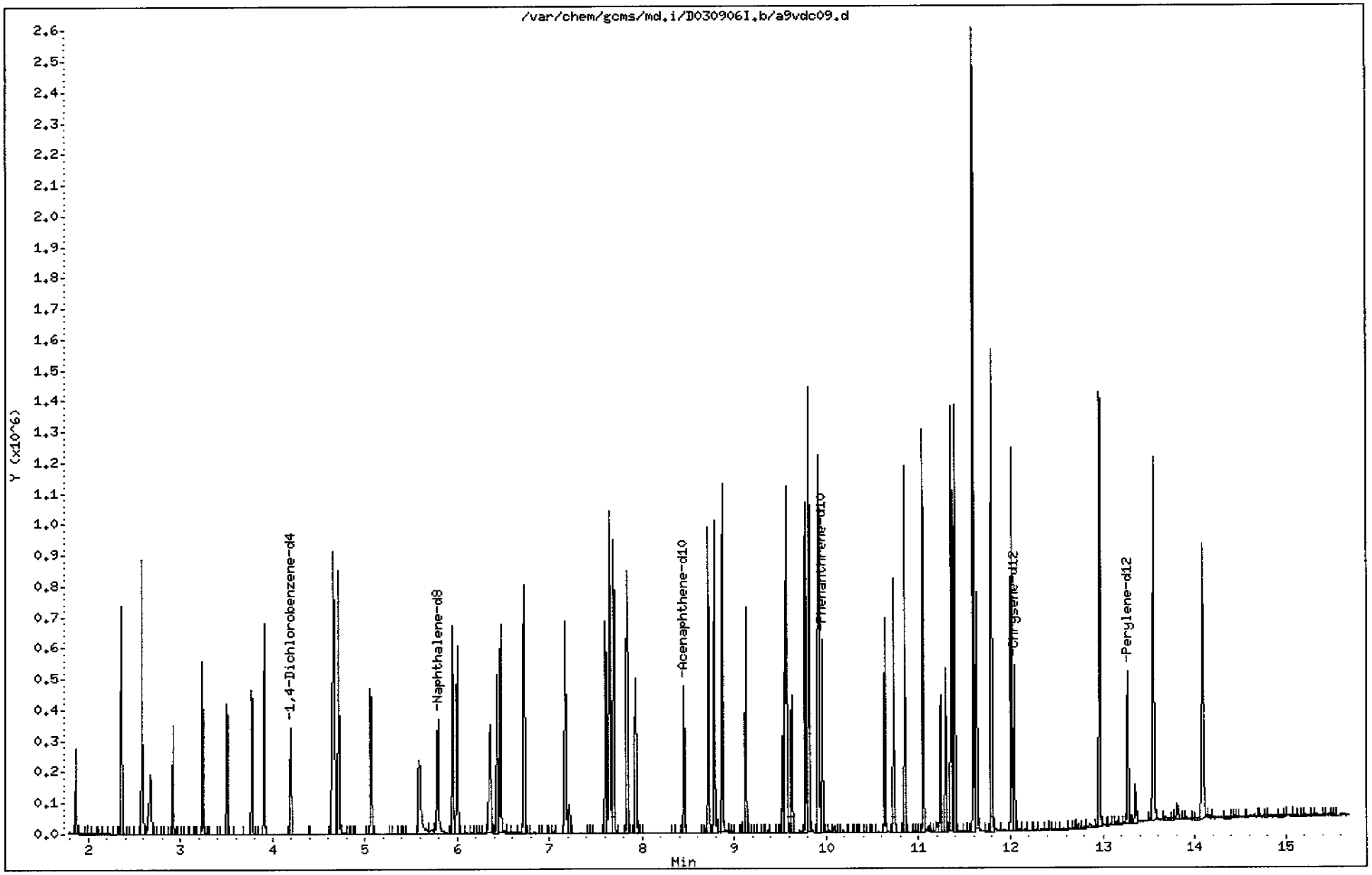
Data File: /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Report Date: 09-Mar-2006 16:59

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
117 o-tolidine	120 ~~60.0~~	90.8 ~~109~~	~~181.03*~~	70-130	
119 7,12-dimethylbenz(	60.0	57.8	96.27	70-130	
120 3-methylcholanthre	60.0	62.2	103.59	70-130	
176 2-Picoline	60.0	68.3	113.82	70-130	
177 Methapyrilene HCL	60.0	0.00	~~0.00*~~	~~70-130~~	NA
178 N-Nitroquinoline-n	60.0	0.00	~~0.00*~~	~~70-130~~	NA

RRM 3/9/06

Data File: /var/chem/gcms/md.i/D030906I.b/a9vdc09.d
Date : 09-MAR-2006 15:24
Client ID: SECOND SOURCE
Sample Info: A9VDC09,,3,,,SECOND SOURCE,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



STL Knoxville Semivolatile GC/MS Continuing Calibration Review / Narrative Checklist
Method 8270C - KNOX-MS-0016, Rev 6 and Method TO-13A Mod – KNOX-MS-0017, Rev 1

Analysis Date:	4/18/06	CCAL Batch/ Scan Name:	0041806	Instrument:	MD	ICAL Batch/ Scan Name:	0030906I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd □
1. Did DFTPP meet tune criteria?		✓			✓
2. Was DDT breakdown ≤20% & benzidine tailing ≤3 and PCP tailing ≤5?		✓			✓
3. Were all standards injected within 12 hr of DFTPP?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Was the primary ion used for all compounds?		✓		□ Secondary ion used due to interferences for:	✓
6. Are the RFs for SPCCs ≥0.050? (8270C)		✓			✓
7. Do the FRs meet minimum criteria? (TO-13 A mod)		✓			✓
8. Is the %D or drift ≤20% for all CCCs? (8270C)		✓			✓
9. Is the %D or drift ≤30% for all target analytes? (TO-13A Mod)		✓			✓
10. Is the %D or drift ≤ 30% for all other compounds? [Up to 3 TCLs may have %D or drift ≤ 40%; any more and the calibration is INVALID; 3 add'l allowed for App IX].		✓		□ %D or drift > 30% for the following TCLs: 1,2,4,5-tetrachlorobenzene -37.5%	✓
11. Are the internal standard responses within limits? (50-200% of the mid-level ICAL standard)		✓			✓
12. Are the internal standard retention times within limits? (30 seconds of the mid-level ICAL standard)		✓			✓
13. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	MD
14. Were all peaks identified automatically? *If not, list analytes:*		✓			✓
15. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				MD
16. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL.)		✓			✓
17. Is the first IS documented correctly on the log?		✓			✓
18. Elution order checked on isomeric pairs/coeluters?					
• 1,4-dichlorobenzene-d4 / 1,2-dichlorobenzene-d4		✓			✓
• aniline / bis(2-chloroethyl)ether		✓			✓
• 1,3- , 1,4- , 1,2-dichlorobenzene		✓			✓
• benzyl alcohol / 2-methylphenol / 4-methylphenol		✓			✓
• 2,4,6- and 2,4,5-trichlorophenol		✓			✓
• phenanthrene / anthracene		✓			✓
• fluoranthene / pyrene		✓			✓
• benzo(a)anthracene / chrysene		✓			✓
• bis(2-ethylhexyl)/di-n-octyl phthalate		✓			✓
• benzo(b)fluoranthene / benzo(k)fluoranthene		✓			✓
• indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene		✓			✓
• safrole/1-chloronaphthalene/2- chloronaphthalene		✓			✓
• 1-/2-naphthylamine		✓			✓
19. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓			NCM #:	MD
20. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quant report, chromatogram and manual integrations.		✓			✓

Analyst: KRM	Date: 4/18/06	2nd Level Reviewer : [signature]	Date: 04/21/06
Comments:		Comments:	

STL Knoxville
Instrument MD Run/Maintenance Log

Preventive Maintenance Performed ☐ NA ☑ INJ **Date/Time Verified** ☑

Target Batch	D041806			Date	4/18/06
ICAL Batch	D030906I			Analyst	KRM
IS #1	(8270) 61924			Internal Std ID*	EM2291

* was added to all sample extracts at 3 ul per 300 ul unless noted. Instrument injection volume is 1 ul unless otherwise noted.

Lot	Filename	Time	Dil.	Matrix	Batch	Comments
Tune	DF0018	1045	–	EM2258B	–	
8270 CCV	CCD0184	1055	–	EM2292	–	
A9 CCV	A9D0184	1119	–	EM2293	–	
BLK	H2H9W1AA	1142	–	Soils	6094075	westates.sub
LCS	H2H9W1AC	1206	–			8270.sub
H6D030246	H2H341AA	1230	1/3			westates.sub RR 1/5
	H2H4A1AA	1253	1/3			RR 1/5
	H2H4F1AA	1317	1/5			
	H2H342AA	1341	1/5			
	H2H4A2AA	1405	1/5			
MS	H2H341AC	1429	1/5			8270.sub
MSD	H2H341AD	1452	1/5			
BLK	H2H9X1AA	1516	–	Water	6094076	westates.sub
LCS	H2H9X1AC	1540	–			8270.sub
H6D030246	H2H351AA	1603	–			westates.sub
MS	H2H351AC	1627	–			8270.sub
MSD	H2H351AD	1650	–			
	H2H371AA	1714	–			westates.sub
MS	H2H371AC	1738	–			8270.sub
MSD	H2H371AD	1801	–			
	H2H381AA	1825	–			westates.sub
MS	H2H381AC	1849	–			8270.sub
MSD	H2H381AD	1912	–			
	H2H391AA	1936	–			westates.sub
MS	H2H391AC	2000	–			8270.sub
MSD	H2H391AD	2023	–			
	H2H4C1AA	2047	–			westates.sub
	H2H4D1AA	2110	–			
	H2H4E1AA	2134	–			
	H2H4G1AA	2157	–			
	H2H4H1AA	2220	–			
	H2H4J1AA	2244	–			
		KRM	4/19/06			

Comments:

Data File: /chem/gcms/md.i/D041806.b/dfdd18.d

Date : 18-APR-2006 10:45

Client ID: Tune

Instrument: md.i

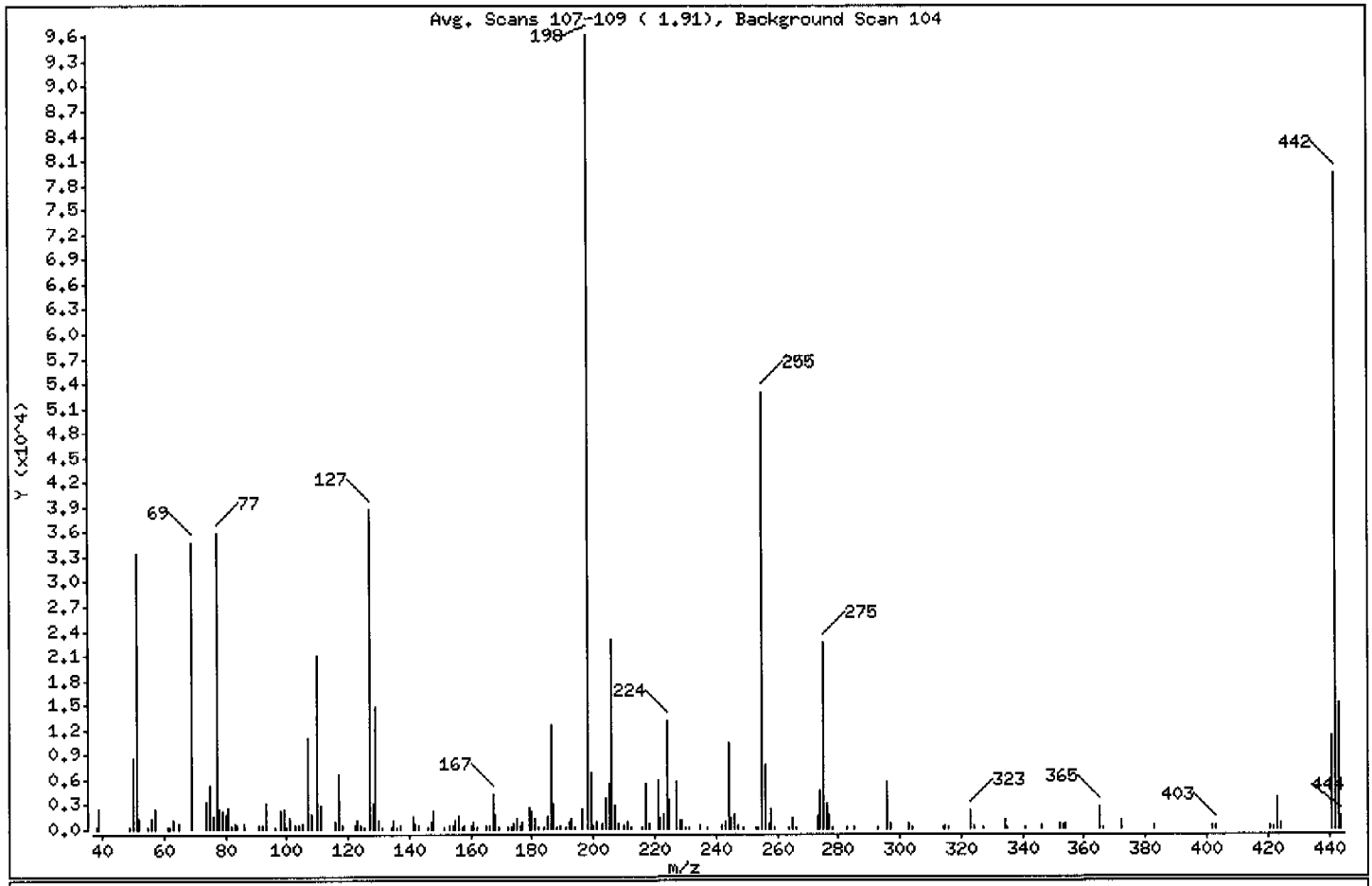
Sample Info: DFDD18,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

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	34.63
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Present, but less than mass 198	36.16
70	Less than 1.99% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	40.23
197	Less than 0.99% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.11
275	10.00 - 30.00% of mass 198	23.54
365	1.01 - 100.00% of mass 198	2.84
441	Present, but less than mass 443	11.65
442	40.01 - 110.00% of mass 198	82.42
443	17.00 - 23.00% of mass 442	15.77 (19.13)

Data File: /chem/gcms/md.i/D041806.b/dfdd18.d

Date : 18-APR-2006 10:45

Client ID: Tune

Instrument: md.i

Sample Info: DFDD18,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Data File: dfdd18.d

Spectrum: Avg. Scans 107-109 (1.91), Background Scan 104

Location of Maximum: 198.00

Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	253	125.00	268	191.00	283	264.00	182
39.00	2411	127.00	38736	192.00	843	265.00	1249
49.00	190	128.00	3140	193.00	1399	266.00	186
50.00	8707	129.00	14834	194.00	271	273.00	1638
51.00	33344	130.00	1130	196.00	2464	274.00	4569
52.00	1391	131.00	186	198.00	96304	275.00	22664
55.00	185	134.00	203	199.00	6844	276.00	3080
56.00	1369	135.00	1209	200.00	400	277.00	1790
57.00	2330	136.00	196	201.00	789	278.00	224
61.00	229	137.00	520	203.00	673	283.00	181
62.00	277	141.00	1571	204.00	3811	285.00	172
63.00	1052	142.00	642	205.00	5446	293.00	264
65.00	699	143.00	364	206.00	22928	296.00	5674
69.00	34816	146.00	218	207.00	2948	297.00	609
74.00	3254	147.00	833	208.00	715	303.00	596
75.00	5293	148.00	2190	210.00	423	304.00	277
76.00	1448	151.00	216	211.00	981	314.00	218
77.00	35824	153.00	434	212.00	190	315.00	508
78.00	2417	154.00	371	216.00	215	316.00	213
79.00	2219	155.00	1210	217.00	5626	323.00	2152
80.00	1697	156.00	1554	218.00	644	324.00	512
81.00	2556	157.00	247	221.00	5886	327.00	187
82.00	541	158.00	413	222.00	1385	334.00	1150
83.00	680	160.00	419	223.00	1780	335.00	185
84.00	420	161.00	883	224.00	13004	341.00	170
86.00	660	162.00	177	225.00	3643	346.00	389
91.00	396	165.00	461	227.00	5685	352.00	696
92.00	481	166.00	507	228.00	1103	353.00	453
93.00	3097	167.00	4130	229.00	1126	354.00	655
96.00	181	168.00	1756	230.00	243	365.00	2732
98.00	2296	169.00	195	231.00	211	366.00	178
99.00	2438	172.00	222	235.00	396	372.00	1076
100.00	248	173.00	261	237.00	212	383.00	411
101.00	1261	174.00	607	242.00	407	402.00	468
103.00	379	175.00	1424	243.00	836	403.00	534

Data File: /chem/gcms/md.i/D041806.b/dfdd18.d

Date : 18-APR-2006 10:45

Client ID: Tune

Instrument: md.i

Sample Info: DFDD18,,3,,DFTPP,

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Data File: dfdd18.d
Spectrum: Avg. Scans 107-109 (1.91), Background Scan 104
Location of Maximum: 198.00
Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	510	176.00	530	244.00	10319	421.00	418
105.00	697	177.00	961	245.00	1421	422.00	286
107.00	10964	179.00	2599	246.00	1830	423.00	3776
108.00	1798	180.00	2291	247.00	416	424.00	643
110.00	20928	181.00	1257	249.00	268	441.00	11215
111.00	2802	182.00	171	253.00	263	442.00	79368
116.00	784	184.00	175	254.00	171	443.00	15184
117.00	6675	185.00	1524	255.00	52992	444.00	1605
118.00	455	186.00	12520	256.00	7732		
122.00	491	187.00	3208	257.00	566		
123.00	1076	188.00	213	258.00	2431		
124.00	388	189.00	431	259.00	318		

Data File: /chem/gcms/md.i/D041806.b/dfdd18.d

Date : 18-APR-2006 10:45

Client ID: Tune

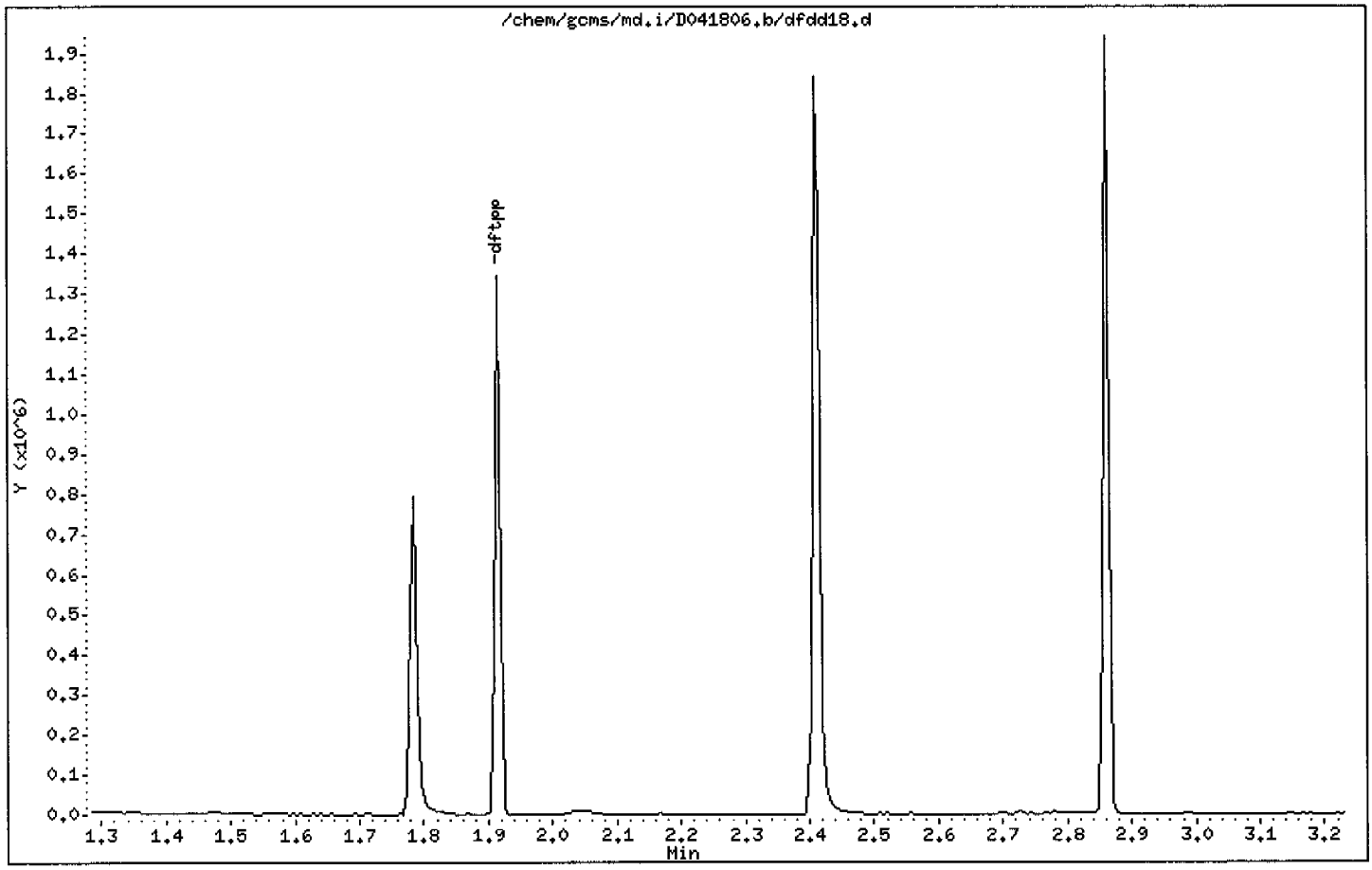
Instrument: md.i

Sample Info: DFDD18,,3,,DFTPP,

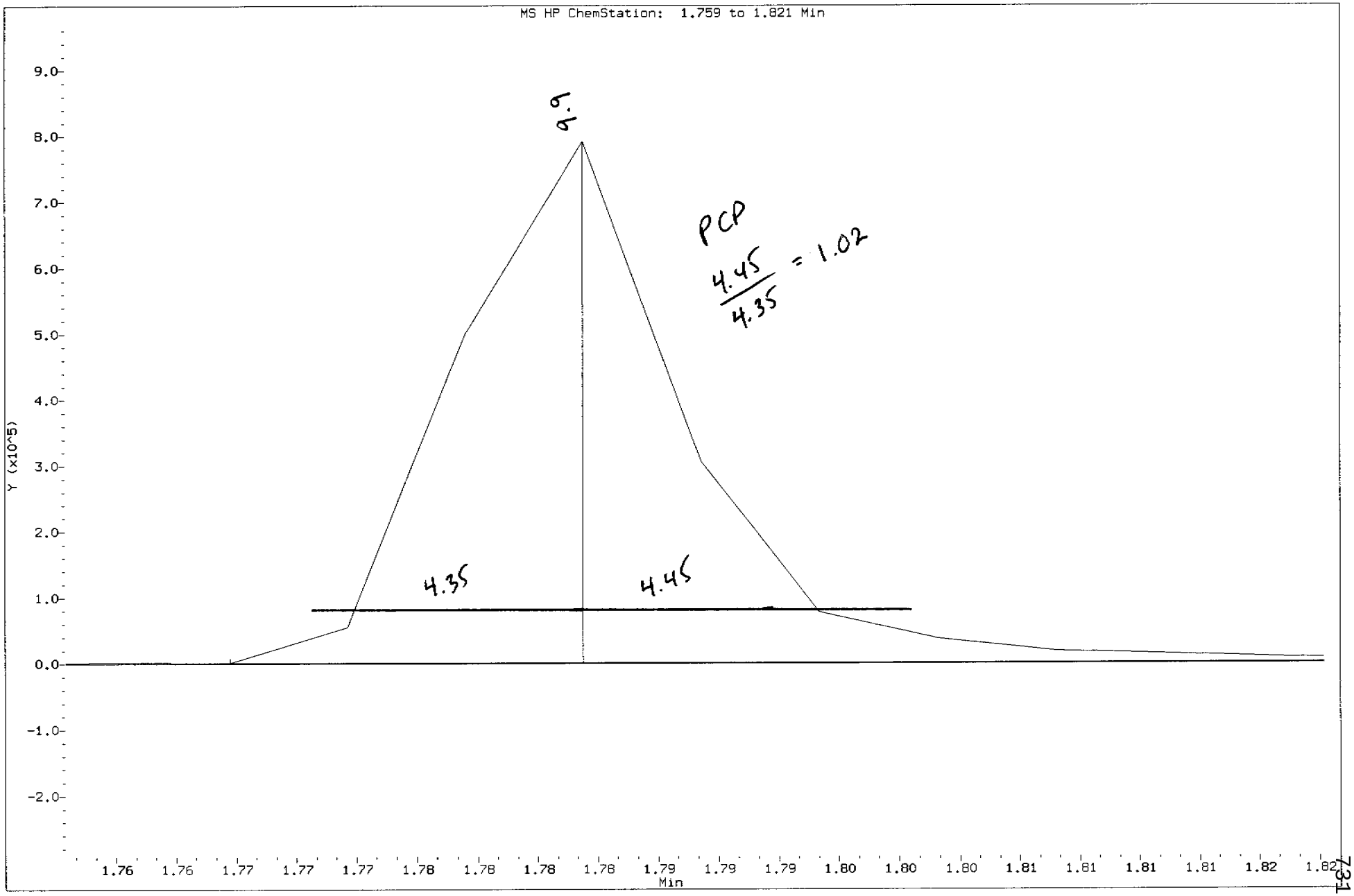
Operator: 60841

Column phase: ZB-5

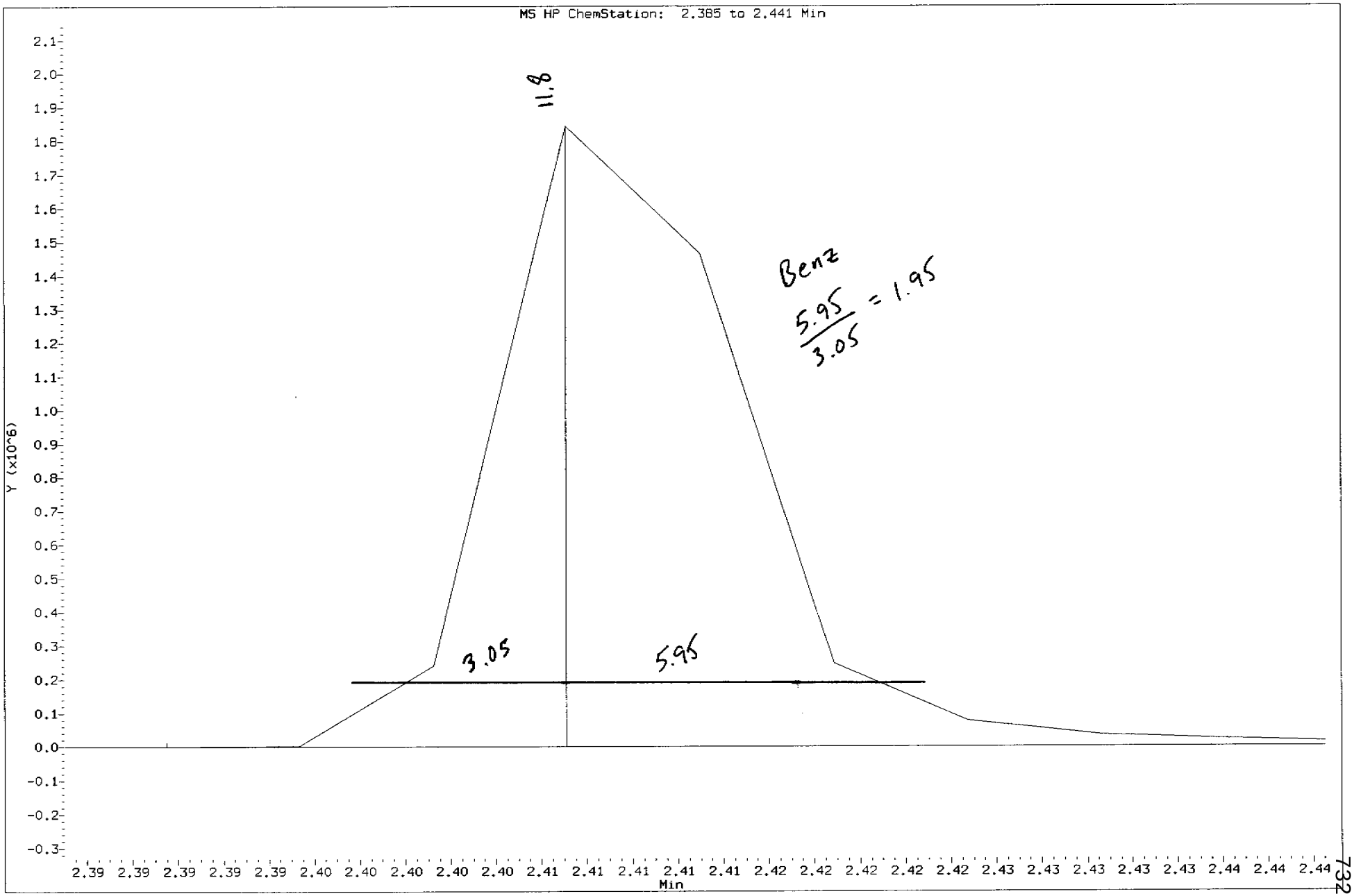
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/dfdd18.d
Injection Date: 18-APR-2006 10:45
Instrument: md.i
Client Sample ID: Tune



Data File: /var/chem/gcms/md.i/D041806.b/dfdd18.d
Injection Date: 18-APR-2006 10:45
Instrument: md.i
Client Sample ID: Tune



Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Report Date: 18-Apr-2006 11:12

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: ccdd184.d
Analysis Type: SOIL
Lab Sample ID: CCDD184
Method: /chem/gcms/md.i/D041806.b/8270a9.m

Injection Date: 18-APR-2006 10:55
Init. Cal. Date(s): 13-FEB-2006 09-MAR-2006
Init. Cal. Times: 09:22 15:00
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.39863	1.25038	1.25038	0.000	10.60019	30.00000	Averaged
$ 8 Phenol-d5	1.68711	1.55213	1.55213	0.000	8.00044	30.00000	Averaged
$ 9 Nitrobenzene-d5	0.45083	0.41584	0.41584	0.000	7.76147	30.00000	Averaged
$ 10 2-Fluorobiphenyl	1.31850	1.37844	1.37844	0.000	-4.54677	30.00000	Averaged
$ 11 2,4,6-Tribromophenol	0.12682	0.12271	0.12271	0.000	3.24109	30.00000	Averaged
$ 12 Terphenyl-d14	0.97277	1.03916	1.03916	0.000	-6.82479	30.00000	Averaged
$ 179 13C6-naphthalene	1.28786	1.35282	1.35282	0.000	-5.04455	30.00000	Averaged
$ 180 Pentachlorophenol C13	61.97510	60.00000	0.20949	0.000	-3.29184	30.00000	Linear
175 1,4-Dioxane	0.47084	0.44620	0.44620	0.000	5.23382	30.00000	Averaged
13 N-Nitrosodimethylamine	0.66754	0.66921	0.66921	0.000	-0.24958	30.00000	Averaged
14 Pyridine	1.33475	1.34225	1.34225	0.000	-0.56164	30.00000	Averaged
15 Phenol (ccc)	1.78314	1.64149	1.64149	0.000	7.94375	20.00000	Averaged
16 Aniline	1.99121	1.88174	1.88174	0.000	5.49732	30.00000	Averaged
17 Bis(2-chloroethyl)ether	1.24783	1.07935	1.07935	0.000	13.50180	30.00000	Averaged
18 2-Chlorophenol	1.32571	1.19842	1.19842	0.000	9.60164	30.00000	Averaged
19 1,3-Dichlorobenzene	1.51811	1.43849	1.43849	0.000	5.24496	30.00000	Averaged
20 1,4-Dichlorobenzene (ccc)	1.53360	1.43907	1.43907	0.000	6.16400	20.00000	Averaged
21 Benzyl alcohol	0.88427	0.80576	0.80576	0.000	8.87904	30.00000	Averaged
22 1,2-Dichlorobenzene	1.46980	1.38146	1.38146	0.000	6.01039	30.00000	Averaged
23 2-Methylphenol	1.26672	1.15715	1.15715	0.000	8.64965	30.00000	Averaged
24 2,2'-Oxybis(1-Chloropropane	2.13854	1.72532	1.72532	0.000	19.32262	30.00000	Averaged
25 4-Methylphenol	1.31683	1.21128	1.21128	0.000	8.01574	30.00000	Averaged
26 3&4 Methylphenol	1.31683	1.21128	1.21128	0.000	8.01574	30.00000	Averaged
27 N-Nitroso-di-n-propylamine#	0.98263	0.86941	0.86941	0.050	11.52238	30.00000	Averaged
28 Hexachloroethane	0.59644	0.50742	0.50742	0.000	14.92545	30.00000	Averaged
29 Nitrobenzene	0.43711	0.40551	0.40551	0.000	7.22838	30.00000	Averaged
30 Isophorone	0.81160	0.73868	0.73868	0.000	8.98452	30.00000	Averaged
31 2-Nitrophenol (ccc)	0.19820	0.20349	0.20349	0.000	-2.66994	20.00000	Averaged
32 2,4-Dimethyphenol	0.43959	0.41899	0.41899	0.000	4.68765	30.00000	Averaged
33 Bis(2-chloroethoxy)methane	0.46673	0.41623	0.41623	0.000	10.82005	30.00000	Averaged
34 Benzoic acid	0.22717	0.19682	0.19682	0.000	13.36123	30.00000	Averaged
35 2,4-Dichlorophenol (ccc)	0.34973	0.35517	0.35517	0.000	-1.55610	20.00000	Averaged
36 1,2,4-Trichlorobenzene	0.38928	0.42347	0.42347	0.000	-8.78133	30.00000	Averaged
37 Naphthalene	1.17113	1.13427	1.13427	0.700	3.14732	30.00000	Averaged
38 4-Chloroaniline	0.50482	0.47286	0.47286	0.000	6.32995	30.00000	Averaged

Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Report Date: 18-Apr-2006 11:12

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: ccdd184.d
Analysis Type: SOIL
Lab Sample ID: CCDD184
Method: /chem/gcms/md.i/D041806.b/8270a9.m

Injection Date: 18-APR-2006 10:55
Init. Cal. Date(s): 13-FEB-2006 09-MAR-2006
Init. Cal. Times: 09:22 15:00
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
39 Hexachlorobutadiene (ccc)	0.28088	0.28161	0.28161	0.000	-0.25713	20.00000	Averaged
40 4-Chloro-3-methylphenol (cc	0.36710	0.34007	0.34007	0.000	7.36243	20.00000	Averaged
41 2-Methylnaphthalene	0.74760	0.79833	0.79833	0.000	-6.78559	30.00000	Averaged
42 Hexachlorocyclopentadiene##	0.44891	0.39398	0.39398	0.050	12.23633	30.00000	Averaged
43 2,4,6-Trichlorophenol (ccc)	0.40869	0.40973	0.40973	0.000	-0.25411	20.00000	Averaged
44 2,4,5-Trichlorphenol	0.45194	0.45080	0.45080	0.000	0.25292	30.00000	Averaged
45 2-Chloronaphthalene	1.20272	1.17019	1.17019	0.000	2.70548	20.00000	Averaged
46 2-Nitroaniline	0.38272	0.32386	0.32386	0.000	15.37891	30.00000	Averaged
47 Acenaphthylene	1.88762	1.88006	1.88006	1.300	0.40052	30.00000	Averaged
48 Dimethyl phthalate	1.38376	1.27946	1.27946	0.000	7.53744	30.00000	Averaged
49 2,6-Dinitrotoluene	0.29580	0.28729	0.28729	0.000	2.87571	30.00000	Averaged
50 3-Nitroaniline	0.35395	0.31038	0.31038	0.000	12.31096	30.00000	Averaged
51 Acenaphthene (ccc)	1.13344	1.13036	1.13036	0.800	0.27181	20.00000	Averaged
52 2,4-Dinitrophenol ##spcc##	60.35308	60.00000	0.14088	0.050	-0.58846	30.00000	Linear
53 Dibenzofuran	1.69092	1.67854	1.67854	0.000	0.73184	30.00000	Averaged
54 4-Nitrophenol ##spcc##	0.22075	0.16746	0.16746	0.050	24.14282	30.00000	Averaged
55 2,4-Dinitrotoluene	0.39847	0.39617	0.39617	0.000	0.57536	30.00000	Averaged
56 Fluorene	1.40918	1.41414	1.41414	0.900	-0.35203	30.00000	Averaged
57 4-Chlorophenyl phenyl ether	0.70099	0.72637	0.72637	0.000	-3.61979	30.00000	Averaged
58 Diethyl phthalate	1.36192	1.17855	1.17855	0.000	13.46444	30.00000	Averaged
59 4-Nitroaniline	0.35796	0.31856	0.31856	0.000	11.00803	30.00000	Averaged
60 4,6-Dinitro-2-methylphenol	0.12583	0.14505	0.14505	0.000	-15.27230	30.00000	Averaged
61 N-Ndpa / diphenylamine (ccc	0.52311	0.54330	0.54330	0.000	-3.86002	20.00000	Averaged
62 1,2-Diphenylhydrazine/azobn	0.81128	0.71176	0.71176	0.000	12.26807	30.00000	Averaged
63 4-Bromophenyl phenyl ether	0.22257	0.22201	0.22201	0.000	0.25355	30.00000	Averaged
64 Hexachlorobenzene	0.27825	0.26023	0.26023	0.000	6.47611	30.00000	Averaged
65 Pentachlorophenol (ccc)	0.18014	0.17356	0.17356	0.000	3.65110	20.00000	Averaged
66 Phenanthrene	1.20596	1.19991	1.19991	0.700	0.50136	30.00000	Averaged
67 Anthracene	1.20643	1.18804	1.18804	0.700	1.52445	30.00000	Averaged
68 Carbazole	1.13666	1.09891	1.09891	0.000	3.32094	30.00000	Averaged
69 Di-n-butyl phthalate	1.28900	1.13995	1.13995	0.000	11.56362	20.00000	Averaged
70 Fluoranthene (ccc)	1.30260	1.40090	1.40090	0.600	-7.54634	20.00000	Averaged
71 Pyrene	1.27917	1.42280	1.42280	0.600	-11.22839	30.00000	Averaged
72 Butyl benzyl phthalate	0.57324	0.49738	0.49738	0.000	13.23365	30.00000	Averaged
73 Benzo(a)Anthracene	1.30957	1.29122	1.29122	0.800	1.40106	30.00000	Averaged

Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Report Date: 18-Apr-2006 11:12

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: ccdd184.d
Analysis Type: SOIL
Lab Sample ID: CCDD184
Method: /chem/gcms/md.i/D041806.b/8270a9.m

Injection Date: 18-APR-2006 10:55
Init. Cal. Date(s): 13-FEB-2006 09-MAR-2006
Init. Cal. Times: 09:22 15:00
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
74 3,3'-Dichlorobenzidine	0.49575	0.47607	0.47607	0.000	3.96924	30.00000	Averaged
75 Chrysene	1.25393	1.27844	1.27844	0.700	-1.95414	30.00000	Averaged
76 Bis(2-ethylhexyl) phthalate	0.72851	0.66257	0.66257	0.000	9.05123	30.00000	Averaged
77 Di-n-octyl phthalate (ccc)	1.46223	1.26039	1.26039	0.000	13.80330	20.00000	Averaged
78 Benzo(b)fluoranthene	1.53690	1.40417	1.40417	0.700	8.63660	30.00000	Averaged
79 Benzo(k)fluoranthene	1.56942	1.54855	1.54855	0.700	1.32981	30.00000	Averaged
80 Benzo(a)pyrene (ccc)	1.28083	1.23438	1.23438	0.700	3.62673	20.00000	Averaged
81 Indeno(1,2,3-cd)pyrene	1.41907	1.33511	1.33511	0.500	5.91609	30.00000	Averaged
82 Dibenz(a,h)anthracene	1.18940	1.10198	1.10198	0.400	7.34976	30.00000	Averaged
83 Benzo(g,h,i)perylene	1.20024	1.13743	1.13743	0.500	5.23276	30.00000	Averaged

Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Report Date: 18-Apr-2006 11:12

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/ccdd184.d
Lab Smp Id: CCDD184 Client Smp ID: STD060
Inj Date : 18-APR-2006 10:55
Operator : 60841 Inst ID: md.i
Smp Info : CCDD184,,2,4,,STD060,
Misc Info : D041806,8270a9,8270dxnC13.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 11:12 chemist Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	61924	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	196946	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	140395	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	245474	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	253631	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	225613	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.726)	232285	60.0000	53.6
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	288343	60.0000	55.2
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	245694	60.0000	55.3
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	580583	60.0000	62.7
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	90365	60.0000	58.0
$ 12 Terphenyl-d14	244	11.210	11.210	(0.933)	790693	60.0000	64.1
$ 179 13C6-naphthalene	134	5.781	5.781	(1.005)	799299	60.0000	63.0
$ 180 Pentachlorophenol C13	272	9.829	9.829	(0.991)	154273	60.0000	62.0
175 1,4-Dioxane	88	1.850	1.850	(0.444)	82891	60.0000	56.8

Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Report Date: 18-Apr-2006 11:12

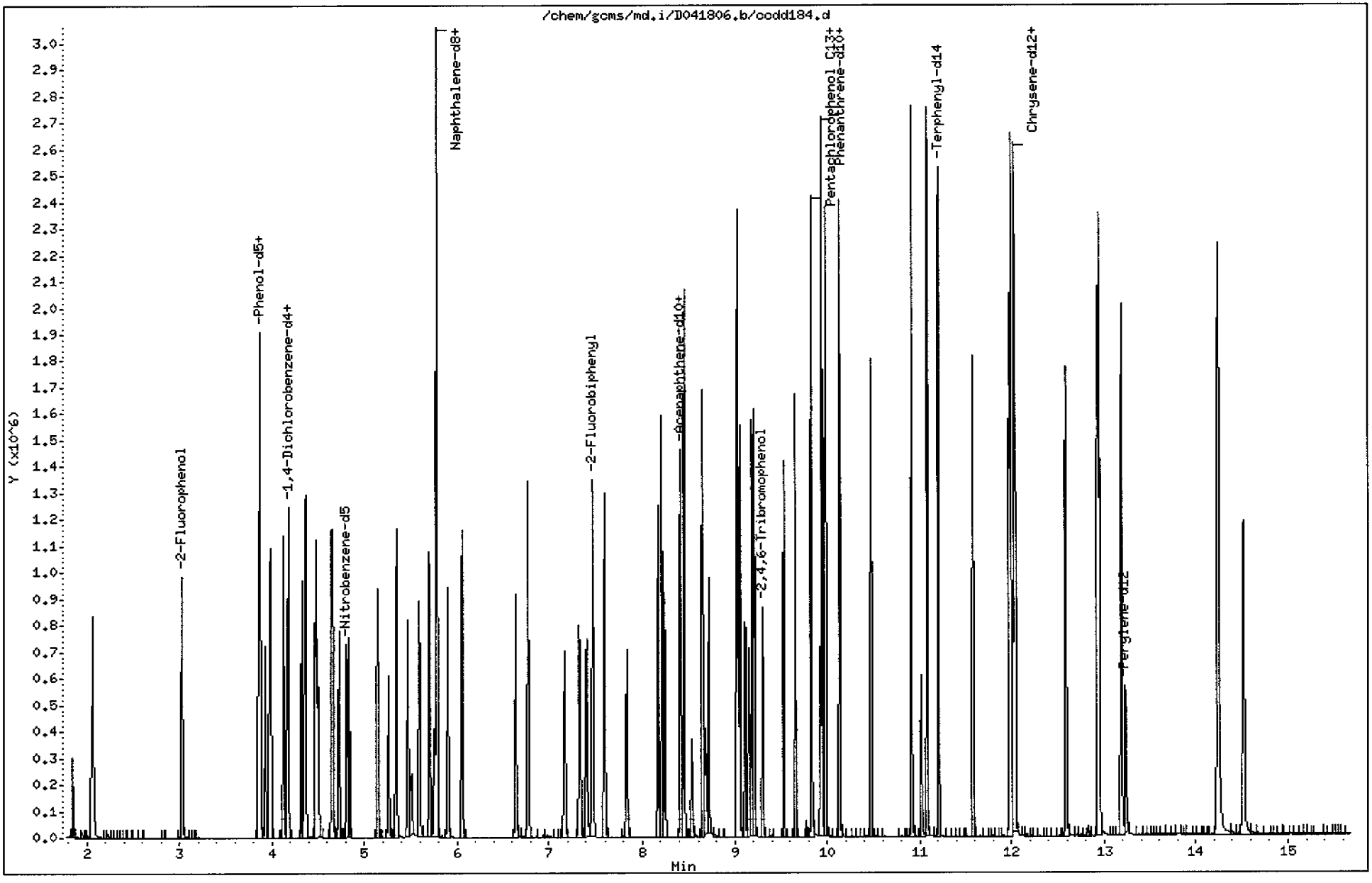
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
13 N-Nitrosodimethylamine	74	2.050	2.050	(0.492)	124320	60.0000	60.1
14 Pyridine	79	2.067	2.067	(0.496)	249353	60.0000	60.3
15 Phenol (ccc)	94	3.871	3.871	(0.929)	304943	60.0000	55.2
16 Aniline	93	3.877	3.877	(0.931)	349576	60.0000	56.7
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	200514	60.0000	51.9
18 2-Chlorophenol	128	3.988	3.988	(0.958)	222633	60.0000	54.2
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.990)	267231	60.0000	56.8
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.003)	267339	60.0000	56.3
21 Benzyl alcohol	108	4.323	4.323	(1.038)	149687	60.0000	54.7
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	256637	60.0000	56.4
23 2-Methylphenol	108	4.476	4.476	(1.075)	214967	60.0000	54.8
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	320516	60.0000	48.4
25 4-Methylphenol	108	4.647	4.647	(1.116)	225021	60.0000	55.2
26 3&4 Methylphenol	108	4.647	4.647	(1.116)	225021	60.0000	55.2
27 N-Nitroso-di-n-propylamine###	70	4.658	4.658	(1.119)	161512	60.0000	53.1
28 Hexachloroethane	117	4.723	4.723	(1.134)	94264	60.0000	51.0
29 Nitrobenzene	77	4.835	4.835	(0.841)	239591	60.0000	55.7
30 Isophorone	82	5.146	5.146	(0.895)	436443	60.0000	54.6
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	120229	60.0000	61.6
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	247552	60.0000	57.2
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	245923	60.0000	53.5
34 Benzoic acid	122	5.510	5.510	(0.958)	116286	60.0000	52.0
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	209848	60.0000	60.9
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	250199	60.0000	65.3
37 Naphthalene	128	5.781	5.781	(1.005)	670172	60.0000	58.1
38 4-Chloroaniline	127	5.898	5.898	(1.026)	279386	60.0000	56.2
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	166383	60.0000	60.2
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	200928	60.0000	55.6
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	471682	60.0000	64.1
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.853)	165940	60.0000	52.6
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	172572	60.0000	60.2
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	189870	60.0000	59.8
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	492867	60.0000	58.4
46 2-Nitroaniline	65	7.831	7.831	(0.931)	136404	60.0000	50.8
47 Acenaphthylene	152	8.213	8.213	(0.976)	791859	60.0000	59.8
48 Dimethyl phthalate	163	8.172	8.172	(0.971)	538893	60.0000	55.5
49 2,6-Dinitrotoluene	165	8.242	8.242	(0.980)	121002	60.0000	58.3
50 3-Nitroaniline	138	8.413	8.413	(1.000)	130726	60.0000	52.6
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	476091	60.0000	59.8
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.015)	59338	60.0000	60.4
53 Dibenzofuran	168	8.648	8.648	(1.028)	706981	60.0000	59.6
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	70530	60.0000	45.5
55 2,4-Dinitrotoluene	165	8.718	8.718	(1.036)	166863	60.0000	59.6
56 Fluorene	166	9.036	9.036	(1.074)	595620	60.0000	60.2
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	305937	60.0000	62.2
58 Diethyl phthalate	149	9.024	9.024	(1.073)	496388	60.0000	51.9
59 4-Nitroaniline	138	9.118	9.118	(1.084)	134171	60.0000	53.4

Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Report Date: 18-Apr-2006 11:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	106819	60.0000	69.2
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	400099	60.0000	62.3
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	524153	60.0000	52.6
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	163490	60.0000	59.8
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	191639	60.0000	56.1
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	127816	60.0000	57.8
66 Phenanthrene	178	9.946	9.946	(1.002)	883645	60.0000	59.7
67 Anthracene	178	9.982	9.982	(1.006)	874899	60.0000	59.1
68 Carbazole	167	10.134	10.134	(1.021)	809265	60.0000	58.0
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	839484	60.0000	53.1
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1031656	60.0000	64.5
71 Pyrene	202	11.080	11.080	(0.923)	1082603	60.0000	66.7
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	378455	60.0000	52.0
73 Benzo(a)Anthracene	228	11.991	11.991	(0.999)	982480	60.0000	59.2
74 3,3'-Dichlorobenzidine	252	11.973	11.973	(0.997)	362238	60.0000	57.6
75 Chrysene	228	12.026	12.026	(1.001)	972756	60.0000	61.2
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	504148	60.0000	54.6
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	853085	60.0000	51.7
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	950396	60.0000	54.8
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.979)	1048117	60.0000	59.2
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.997)	835477	60.0000	57.8
81 Indeno(1,2,3-cd)pyrene	276	14.241	14.241	(1.076)	903657	60.0000	56.4
82 Dibenz(a,h)anthracene	278	14.247	14.247	(1.077)	745864	60.0000	55.6
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.098)	769860	60.0000	56.9

Data File: /chem/gcms/md.i/D041806.b/ccdd184.d
Date : 18-APR-2006 10:55
Client ID: STD060
Sample Info: CCDD184,,2,4,,STD060,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D041806.b/a9dd184.d
Report Date: 18-Apr-2006 11:35

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: a9dd184.d
Analysis Type: SOIL
Lab Sample ID: A9DD184
Method: /var/chem/gcms/md.i/D041806.b/8270a9.m

Injection Date: 18-APR-2006 11:19
Init. Cal. Date(s): 13-FEB-2006 09-MAR-2006
Init. Cal. Times: 09:22 15:00
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
176 2-Picoline	1.18701	1.17955	1.17955	0.000	0.62843	30.00000	Averaged	
86 N-nitrosomethylethylamine	0.76109	0.64802	0.64802	0.000	14.85642	30.00000	Averaged	
87 Methyl methanosulfonate	0.27859	0.37097	0.37097	0.000	-33.15665	30.00000	Averaged	<- NA
88 N-nitrosodiethylamine	0.55970	0.54371	0.54371	0.000	2.85687	30.00000	Averaged	
89 Ethyl methanosulfonate	0.84541	0.88011	0.88011	0.000	-4.10439	30.00000	Averaged	
90 Pentachloroethane	0.49702	0.53158	0.53158	0.000	-6.95239	30.00000	Averaged	
91 acetophenone	1.68023	1.66499	1.66499	0.000	0.90699	30.00000	Averaged	
92 m-cresol	1.23168	1.14371	1.14371	0.000	7.14295	30.00000	Averaged	
93 n-nitrosopyrrolidine	0.64920	0.60005	0.60005	0.000	7.57148	30.00000	Averaged	
94 n-nitrosomorpholine	0.90626	0.75306	0.75306	0.000	16.90410	30.00000	Averaged	
95 o-toluidine	1.67143	1.88509	1.88509	0.000	-12.78314	30.00000	Averaged	
96 n-nitrosopiperidine	0.29139	0.27037	0.27037	0.000	7.21396	30.00000	Averaged	
97 2,6-dichlorophenol	0.30880	0.35794	0.35794	0.000	-15.91334	30.00000	Averaged	
98 hexachloropropene	0.25380	0.30954	0.30954	0.000	-21.96250	30.00000	Averaged	
99 N-nitro-di-n-butylamine	0.21683	0.24799	0.24799	0.000	-14.36955	30.00000	Averaged	
100 Isosafrole	0.27552	0.34466	0.34466	0.000	-25.09347	30.00000	Averaged	
101 1,2,4,5-tetrachlorobenzene	0.34229	0.47054	0.47054	0.000	-37.46746	30.00000	Averaged	<- NA dk
102 safrole	0.51012	0.49316	0.49316	0.000	3.32390	30.00000	Averaged	
103 1-chloronaphthalene	1.04374	1.04892	1.04892	0.000	-0.49688	30.00000	Averaged	KRM 4/19/06
104 m-dinitrobenzene	0.16656	0.18731	0.18731	0.000	-12.45434	30.00000	Averaged	
105 pentachlorobenzene	0.51619	0.58166	0.58166	0.000	-12.68489	30.00000	Averaged	
106 1-naphthylamine	1.09666	1.19217	1.19217	0.000	-8.70906	30.00000	Averaged	
107 2-naphthylamine	1.07337	1.21686	1.21686	0.000	-13.36857	30.00000	Averaged	
108 2,3,4,6-tetrachlorophenol	0.32180	0.34809	0.34809	0.000	-8.17055	30.00000	Averaged	
109 5-nitro-o-toluidine	0.34603	0.37916	0.37916	0.000	-9.57513	30.00000	Averaged	
110 diphenylamine	1.04687	1.16567	1.16567	0.000	-11.34869	30.00000	Averaged	
111 1,3,5-trinitrobenzene	69.00429	60.00000	0.14201	0.000	-15.00715	30.00000	Linear	
112 phenacetin	0.36008	0.34163	0.34163	0.000	5.12325	30.00000	Averaged	
113 4-aminobiphenyl	0.77060	0.91157	0.91157	0.000	-18.29319	30.00000	Averaged	
114 pentachloronitrobenzene	0.10088	0.10414	0.10414	0.000	-3.22963	30.00000	Averaged	
115 Dinoseb	0.12406	0.18309	0.18309	0.000	-47.57726	30.00000	Averaged	<- NA
178 N-Nitroquinoline-n-oxide	++++	0.02651	0.02651	0.000	++++	30.00000	Averaged	<- NA
177 Methapyrilene HCL	++++	0.31769	0.31769	0.000	++++	30.00000	Averaged	<- NA
84 Benzidine	0.81978	0.92031	0.92031	0.000	-12.26338	30.00000	Averaged	
116 p-(dimethylamino)azobenzene	0.30098	0.30632	0.30632	0.000	-1.77127	30.00000	Averaged	

KRM 4/18/06

Data File: /chem/gcms/md.i/D041806.b/a9dd184.d
Report Date: 18-Apr-2006 11:35

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i
Lab File ID: a9dd184.d
Analysis Type: SOIL
Lab Sample ID: A9DD184
Method: /var/chem/gcms/md.i/D041806.b/8270a9.m

Injection Date: 18-APR-2006 11:19
Init. Cal. Date(s): 13-FEB-2006 09-MAR-2006
Init. Cal. Times: 09:22 15:00
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
117 o-tolidine	0.83614	0.97142	0.97142	0.000	-16.17909	30.00000	Averaged
119 7,12-dimethylbenz(a)anthrac	0.55614	0.59892	0.59892	0.000	-7.69303	30.00000	Averaged
118 2-acetylaminofluorene	0.52729	0.54487	0.54487	0.000	-3.33436	30.00000	Averaged
120 3-methylcholanthrene	0.62384	0.67944	0.67944	0.000	-8.91145	30.00000	Averaged

Data File: /chem/gcms/md.i/D041806.b/a9dd184.d
Report Date: 18-Apr-2006 11:35

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/a9dd184.d
Lab Smp Id: A9DD184 Client Smp ID: STD060
Inj Date : 18-APR-2006 11:19
Operator : 60841 Inst ID: md.i
Smp Info : A9DD184,,2,4,,STD060,
Misc Info : D041806,8270a9,appdx9.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 11:35 chemist Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: appdx9.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.159	(1.000)	62765	20.0000	
* 2 Naphthalene-d8	136	5.745	5.745	(1.000)	201676	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	142988	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	247356	20.0000	
* 5 Chrysene-d12	240	12.003	12.003	(1.000)	259008	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	250745	20.0000	
176 2-Picoline	93	2.555	2.555	(0.614)	222104	60.0000	59.6
86 N-nitrosomethylethylamine	42	2.649	2.649	(0.637)	122019	60.0000	51.1
87 Methyl methanosulfonate	80	2.890	2.890	(0.695)	69851	60.0000	79.9
88 N-nitrosodiethylamine	102	3.213	3.213	(0.773)	102378	60.0000	58.3
89 Ethyl methanosulfonate	79	3.477	3.477	(0.836)	165719	60.0000	62.5
90 Pentachloroethane	167	3.877	3.877	(0.932)	100093	60.0000	64.2
91 acetophenone	105	4.623	4.623	(1.112)	313510	60.0000	59.4
92 m-cresol	108	4.658	4.658	(1.120)	215354	60.0000	55.7
93 n-nitrosopyrrolidine	100	4.611	4.611	(1.109)	112985	60.0000	55.4

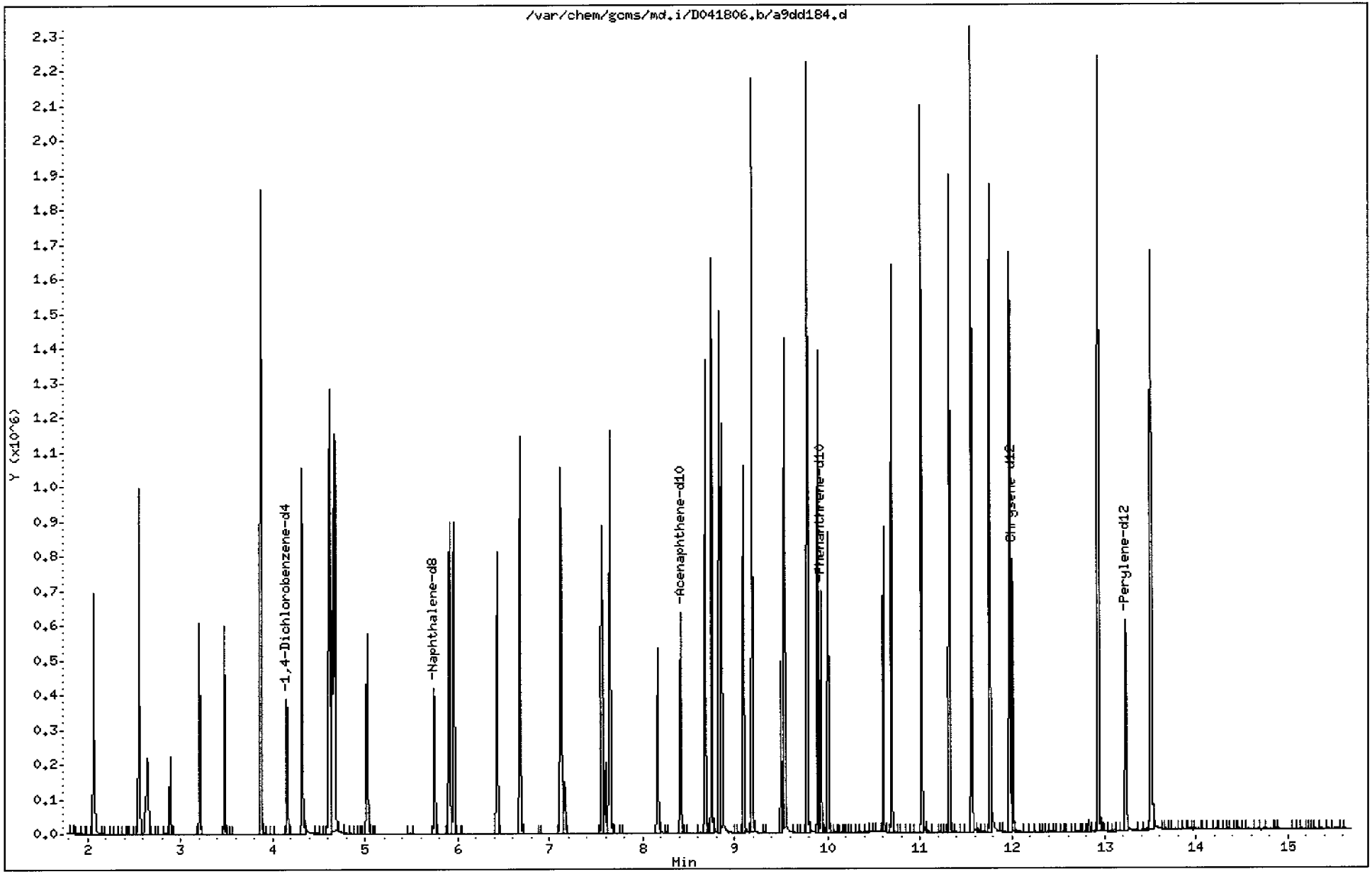
Data File: /chem/gcms/md.i/D041806.b/a9dd184.d
Report Date: 18-Apr-2006 11:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
94 n-nitrosomorpholine	56	4.635	4.635	(1.114)	141797	60.0000	49.8
95 o-toluidine	106	4.682	4.682	(1.126)	354953	60.0000	67.7
96 n-nitrosopiperidine	42	5.022	5.022	(0.874)	163580	60.0000	55.7
97 2,6-dichlorophenol	162	5.910	5.910	(1.029)	216564	60.0000	69.5
98 hexachloropropene	213	5.957	5.957	(1.037)	187281	60.0000	73.2
99 N-nitro-di-n-butylamine	84	6.427	6.427	(1.119)	150041	60.0000	68.6
100 Isosafrole	162	6.679	6.679	(1.163)	208531	60.0000	75.0
101 1,2,4,5-tetrachlorobenzene	216	7.120	7.120	(1.239)	284689	60.0000	82.5
102 safrole	162	7.561	7.561	(0.899)	211549	60.0000	58.0
103 1-chloronaphthalene	162	7.649	7.649	(0.909)	449950	60.0000	60.3
104 m-dinitrobenzene	76	8.160	8.160	(0.970)	80348	60.0000	67.5
105 pentachlorobenzene	250	8.683	8.683	(1.032)	249513	60.0000	67.6
106 1-naphthylamine	143	8.748	8.748	(1.040)	511397	60.0000	65.2
107 2-naphthylamine	143	8.836	8.836	(1.050)	521989	60.0000	68.0
108 2,3,4,6-tetrachlorophenol	232	8.859	8.859	(1.053)	149317	60.0000	64.9
109 5-nitro-o-toluidine	152	9.094	9.094	(1.081)	162646	60.0000	65.7
110 diphenylamine	169	9.188	9.188	(1.092)	500032	60.0000	66.8
111 1,3,5-trinitrobenzene	75	9.500	9.500	(0.957)	105378	60.0000	69.0
112 phenacetin	108	9.541	9.541	(0.962)	253511	60.0000	56.9
113 4-aminobiphenyl	169	9.782	9.782	(0.986)	676447	60.0000	71.0
114 pentachloronitrobenzene	237	9.893	9.893	(0.997)	77277	60.0000	61.9
115 Dinoseb	211	10.005	10.005	(1.008)	135862	60.0000	88.5
84 Benzidine	184	11.016	11.016	(1.110)	682935	60.0000	67.4
116 p-(dimethylamino)azobenzene	120	11.321	11.321	(1.141)	227307	60.0000	61.1
117 o-tolidine	212	11.562	11.562	(1.165)	720858	60.0000	69.7
119 7,12-dimethylbenz(a)anthracen	256	12.937	12.937	(1.078)	465378	60.0000	64.6
118 2-acetylaminofluorene	181	11.762	11.762	(0.980)	423378	60.0000	62.0
120 3-methylcholanthrene	268	13.513	13.513	(1.021)	511097	60.0000	65.3

Data File: /var/chem/gcms/md.i/D041806.b/a9dd184.d
Date : 18-APR-2006 11:19
Client ID: STD060
Sample Info: A9DD184,,2,4,,STD060,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Raw QC Data

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AA **Matrix.....:** SOLID
MB Lot-Sample #: H6D040000-075

Prep Date.....: 04/04/06
Analysis Date..: 04/18/06 **Prep Batch #...:** 6094075
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Aniline	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benz(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzidine	ND	3300	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
1,3-Dinitrobenzene	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Diphenylamine	ND	330	ug/kg	SW846 8270C
1,2-Diphenylhydrazine	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodimethylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropane)	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
Pyridine	ND	660	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(44 - 93)
Phenol-d5	69	(47 - 98)
Nitrobenzene-d5	71	(45 - 100)
2-Fluorobiphenyl	84	(49 - 100)
2,4,6-Tribromophenol	66	(42 - 124)
Terphenyl-d14	86	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL Knoxville - ACS

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: H6D040000-075 B **Work Order #:** H2H9W1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
1,4-dioxane	123-91-1	ND	Q		ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Report Date: 19-Apr-2006 14:39

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Lab Smp Id: H2H9W1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 18-APR-2006 11:42
Operator : 60841 Inst ID: md.i
Smp Info : H2H9W1AA,,3,,,BLK,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 4 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	64581	20.0000	
* 2 Naphthalene-d8	136	5.745	5.751	(1.000)	207286	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	145132	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	249755	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	261666	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	252756	20.0000	
$ 7 2-Fluorophenol	112	3.037	3.025	(0.729)	207014	45.8372	1530
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	283186	51.9817	1730
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	165662	35.4543	1180
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	401227	41.9350	1400
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	77804	49.1283	1640
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	551469	43.3303	1440
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	3747	1.34816	~~44.9~~
76 Bis(2-ethylhexyl) phthalate	149	12.038	12.044	(1.003)	10067	1.05621	35.2
84 Benzidine	184	11.204	11.016	(1.129)	5980	0.58423	~~19.5~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Report Date: 19-Apr-2006 14:39

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h9w1aa.d
Lab Smp Id: H2H9W1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	64581	4.29
2 Naphthalene-d8	196946	98473	393892	207286	5.25
3 Acenaphthene-d10	140395	70198	280790	145132	3.37
4 Phenanthrene-d10	245474	122737	490948	249755	1.74
5 Chrysene-d12	253631	126816	507262	261666	3.17
6 Perylene-d12	225613	112806	451226	252756	12.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	-0.10
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Report Date: 19-Apr-2006 14:39

STL Knoxville

RECOVERY REPORT

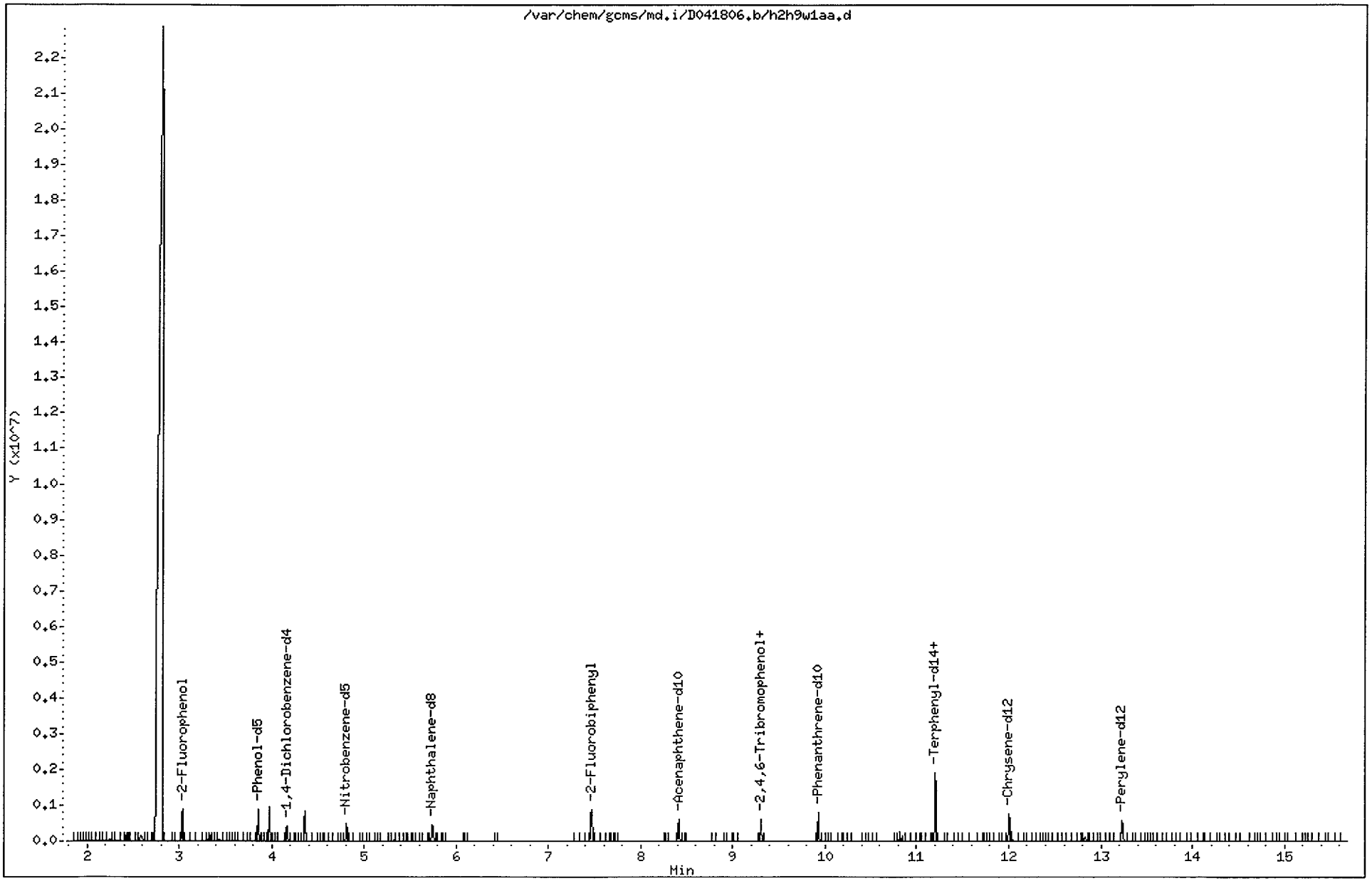
Client Name:
Sample Matrix: SOLID
Lab Smp Id: H2H9W1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Client SDG: H6D040000
Fraction: SV
Client Smp ID: INTRA-LAB BLANK
Operator: 60841
SampleType: METHOD BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	1530	61.12	44-103
$ 8 Phenol-d5	2500	1730	69.31	44-101
$ 9 Nitrobenzene-d5	1670	1180	70.91	42-100
$ 10 2-Fluorobiphenyl	1670	1400	83.87	45-102
$ 11 2,4,6-Tribromophen	2500	1640	65.50	47-116
$ 12 Terphenyl-d14	1670	1440	86.66	54-114

Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Date : 18-APR-2006 11:42
Client ID: INTRA-LAB BLANK
Sample Info: H2H9W1AA,,3,,,BLK,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

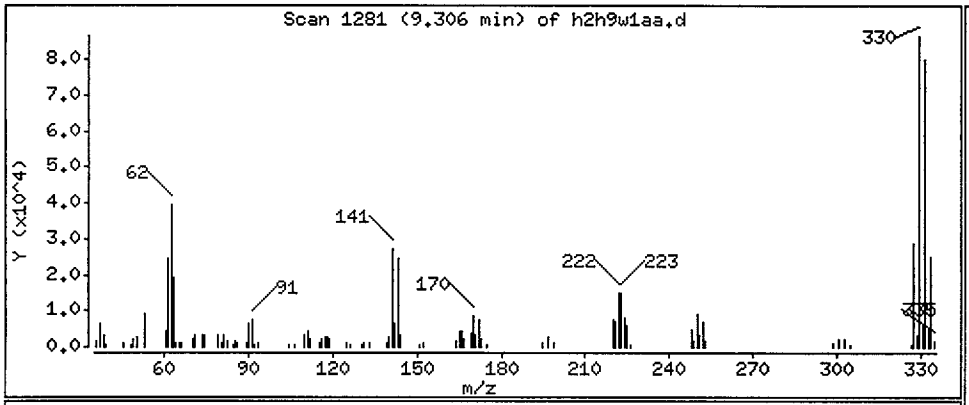
Client ID: INTRA-LAB BLANK | Instrument: md.i

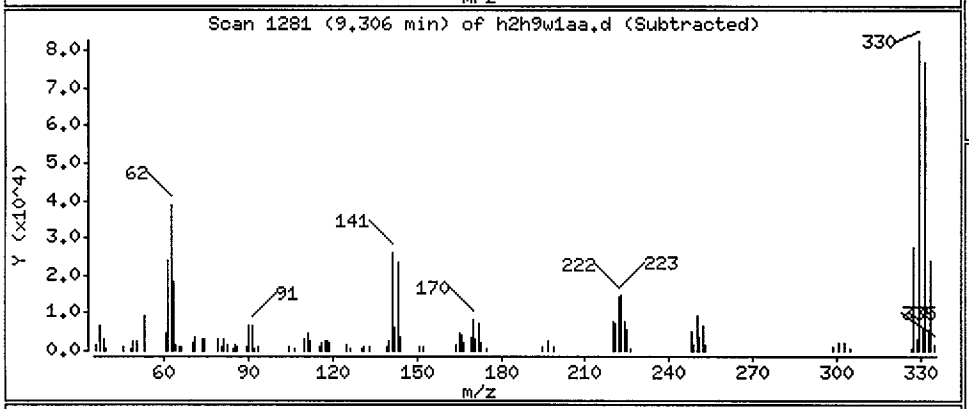
Sample Info: H2H9W1AA,,3,,,BLK,

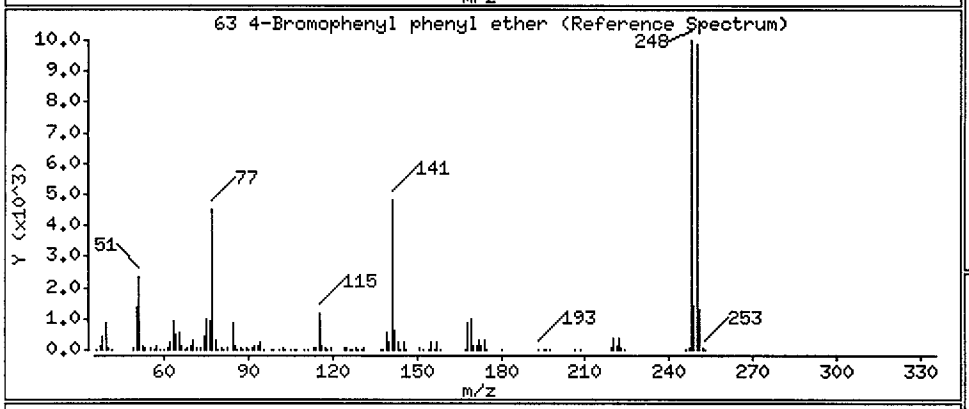
Volume Injected (uL): 1.0 | Operator: 60841

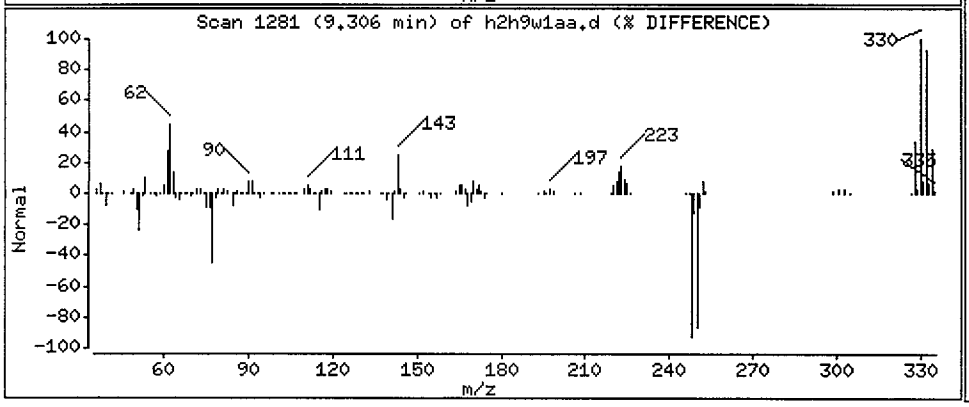
Column phase: ZB-5 | Column diameter: 0.25

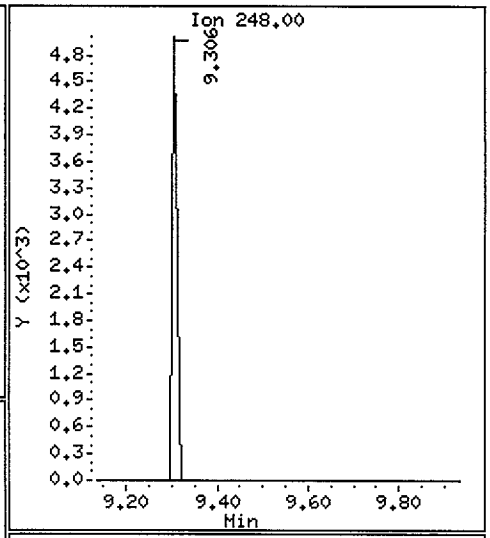
63 4-Bromophenyl phenyl ether | Concentration: 44.9 ug/Kg

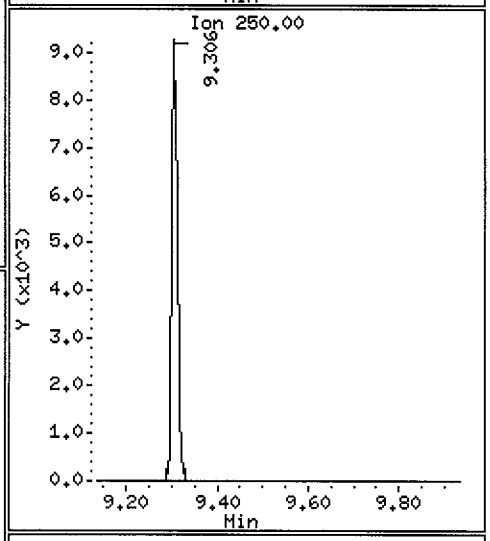


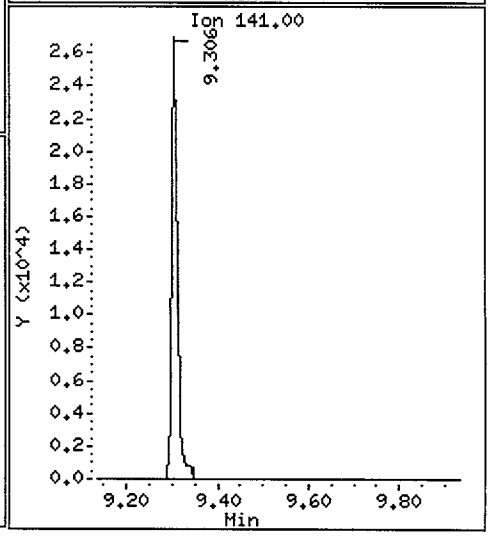












Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

Volume Injected (uL): 1.0

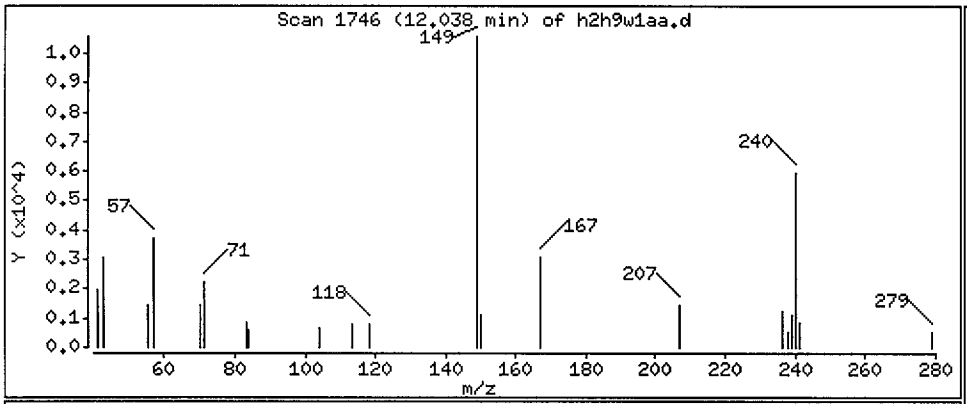
Operator: 60841

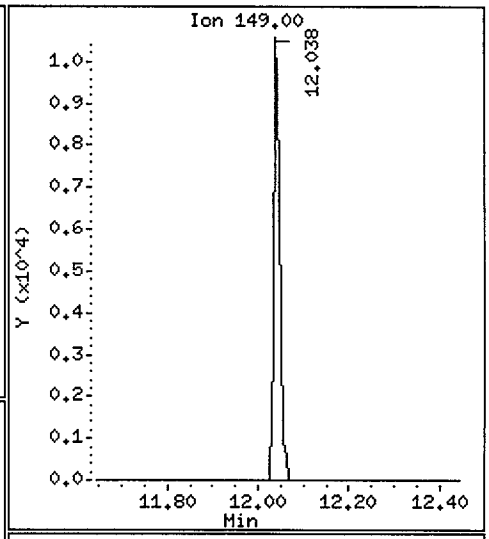
Column phase: ZB-5

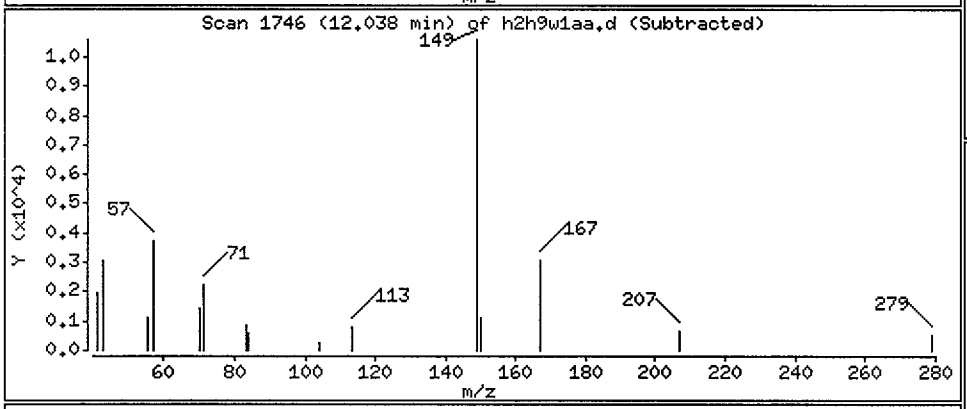
Column diameter: 0.25

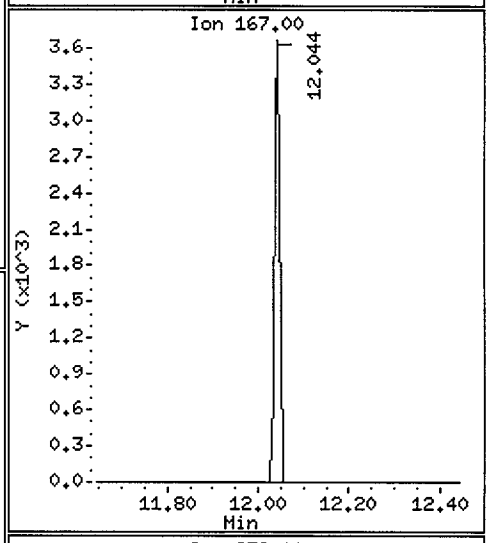
76 Bis(2-ethylhexyl) phthalate

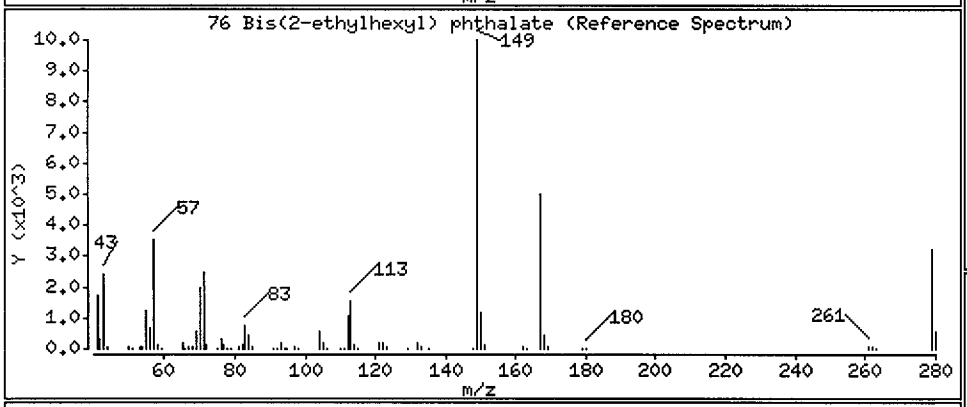
Concentration: 35.2 ug/Kg

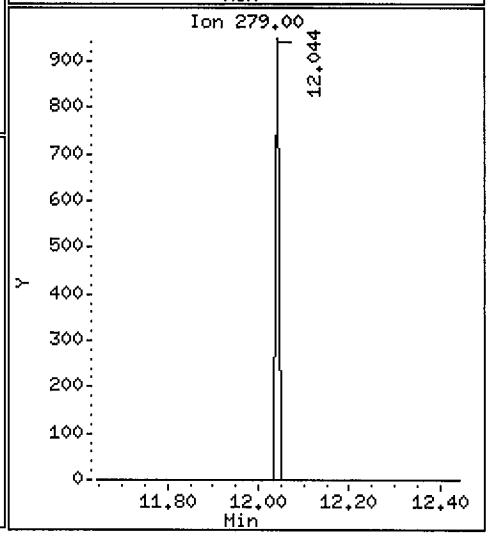


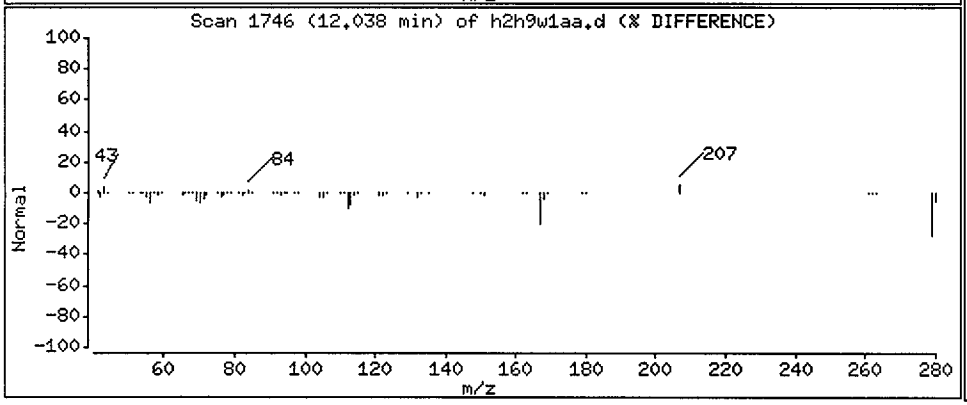












Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

Volume Injected (uL): 1.0

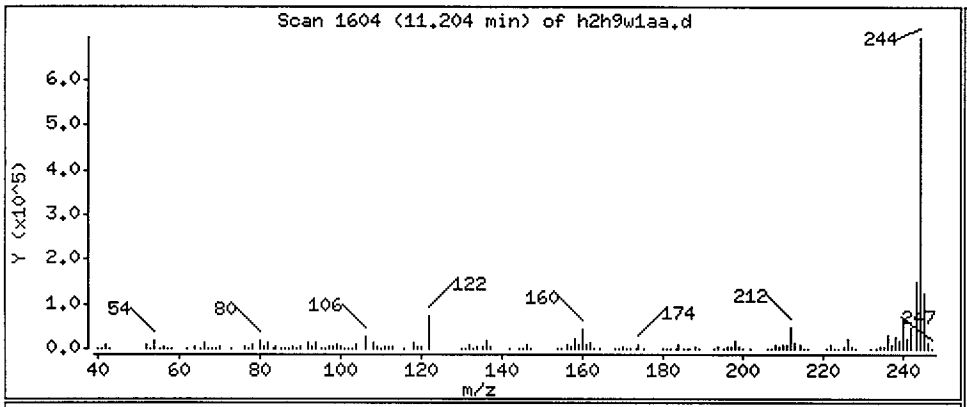
Operator: 60841

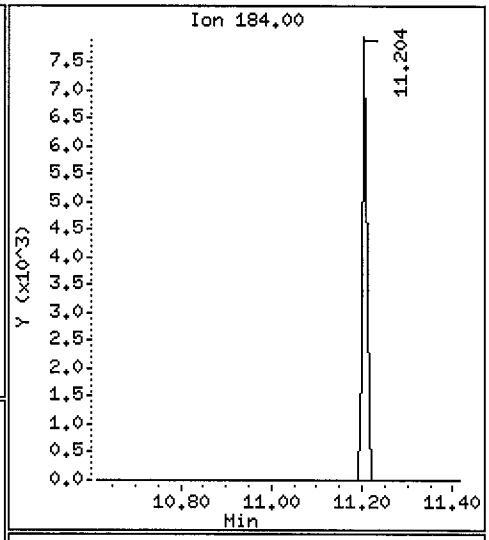
Column phase: ZB-5

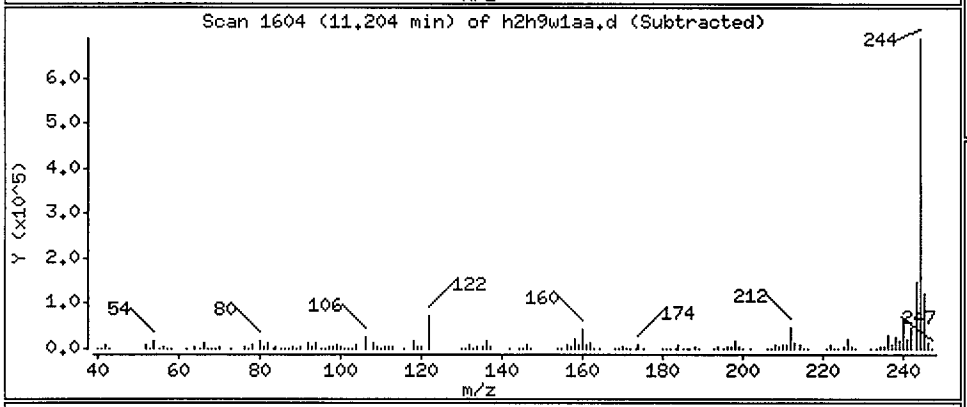
Column diameter: 0.25

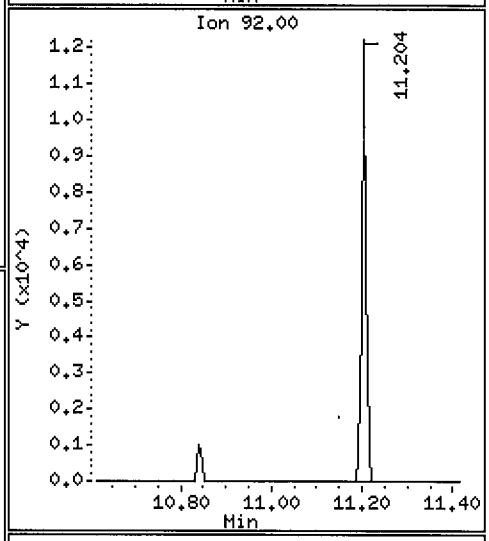
84 Benzidine

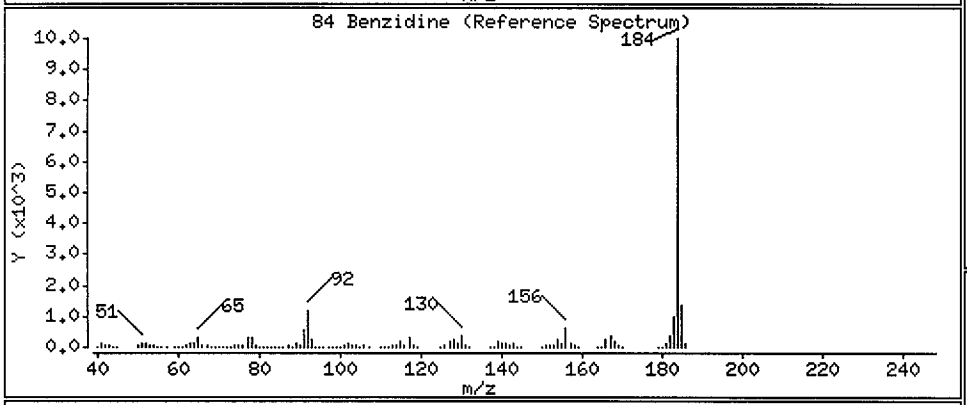
Concentration: 19.5 ug/Kg

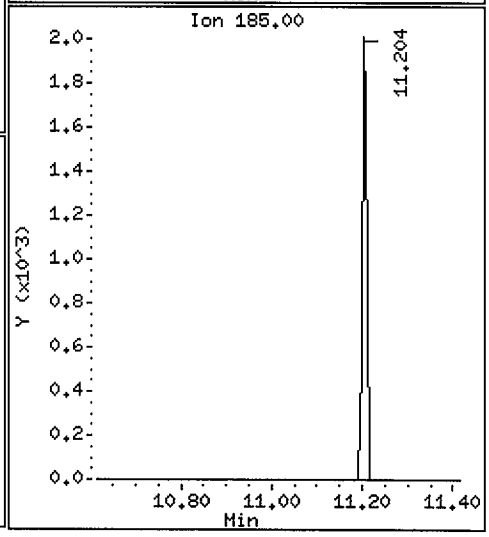


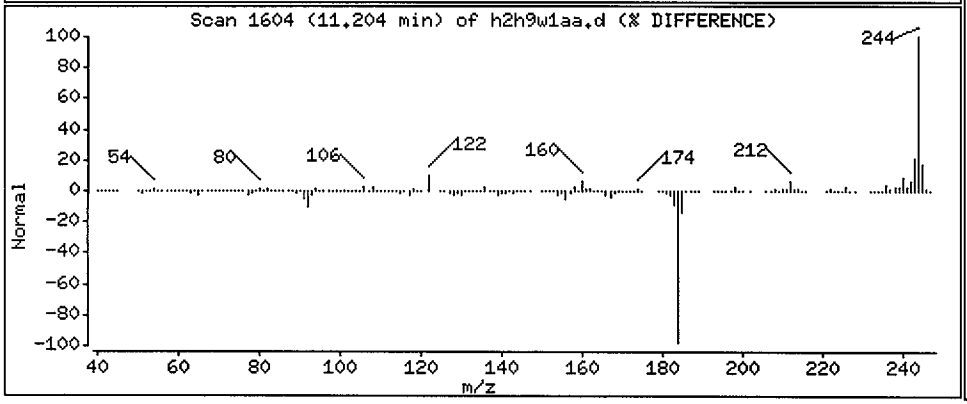












Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Report Date: 19-Apr-2006 15:04

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Lab Smp Id: H2H9W1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 18-APR-2006 11:42
Operator : 60841 Inst ID: md.i
Smp Info : H2H9W1AA,,3,,,BLK,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 4 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.165	411498	20.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
3-Penten-2-one, 4-methyl- A				CAS #: 141-79-7			
2.431	232279	11.2894352	376	91	NIST05.1	3178	1
2-Pentanone, 4-hydroxy- A				CAS #: 4161-60-8			
2.590	136227	6.62102853	221	83	NIST05.1	4168	1
2-Pentanone, 4-hydroxy-4-methyl- A				CAS #: 123-42-2			
2.813	22881323	1112.09887	37100	53	NIST05.1	7951	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d
Report Date: 19-Apr-2006 15:04

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	======	==========	==========	====	=======	=========	======
TATP					CAS #: 17088-37-8		
3.348	232025	11.2770900	376	38	NIST05.1	73257	1
3-Chloro-6-fluoro-pyrazine					CAS #: 1000146-10-7		
3.977	956654	46.4961677	1550	27	NIST05.1	13697	1
1,4-Dichlorobenzene-D4					CAS #: 3855-82-1		
4.359	831462	40.4114722	1350	94	NIST05.1	23150	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

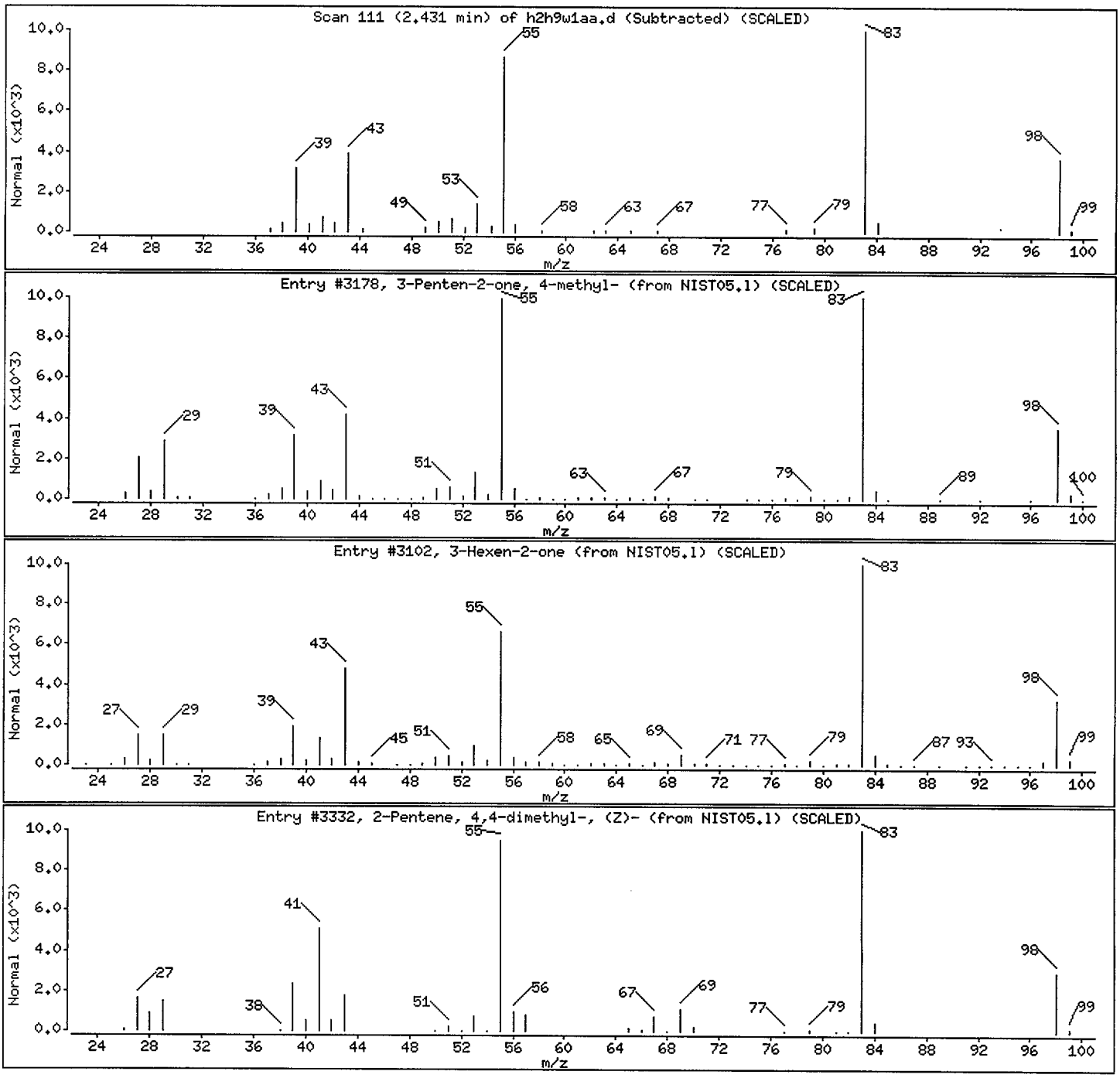
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	NIST05.1	3178	91	C6H10O	98
3-Hexen-2-one	763-93-9	NIST05.1	3102	90	C6H10O	98
2-Pentene, 4,4-dimethyl-, (Z)-	762-63-0	NIST05.1	3332	80	C7H14	98



Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

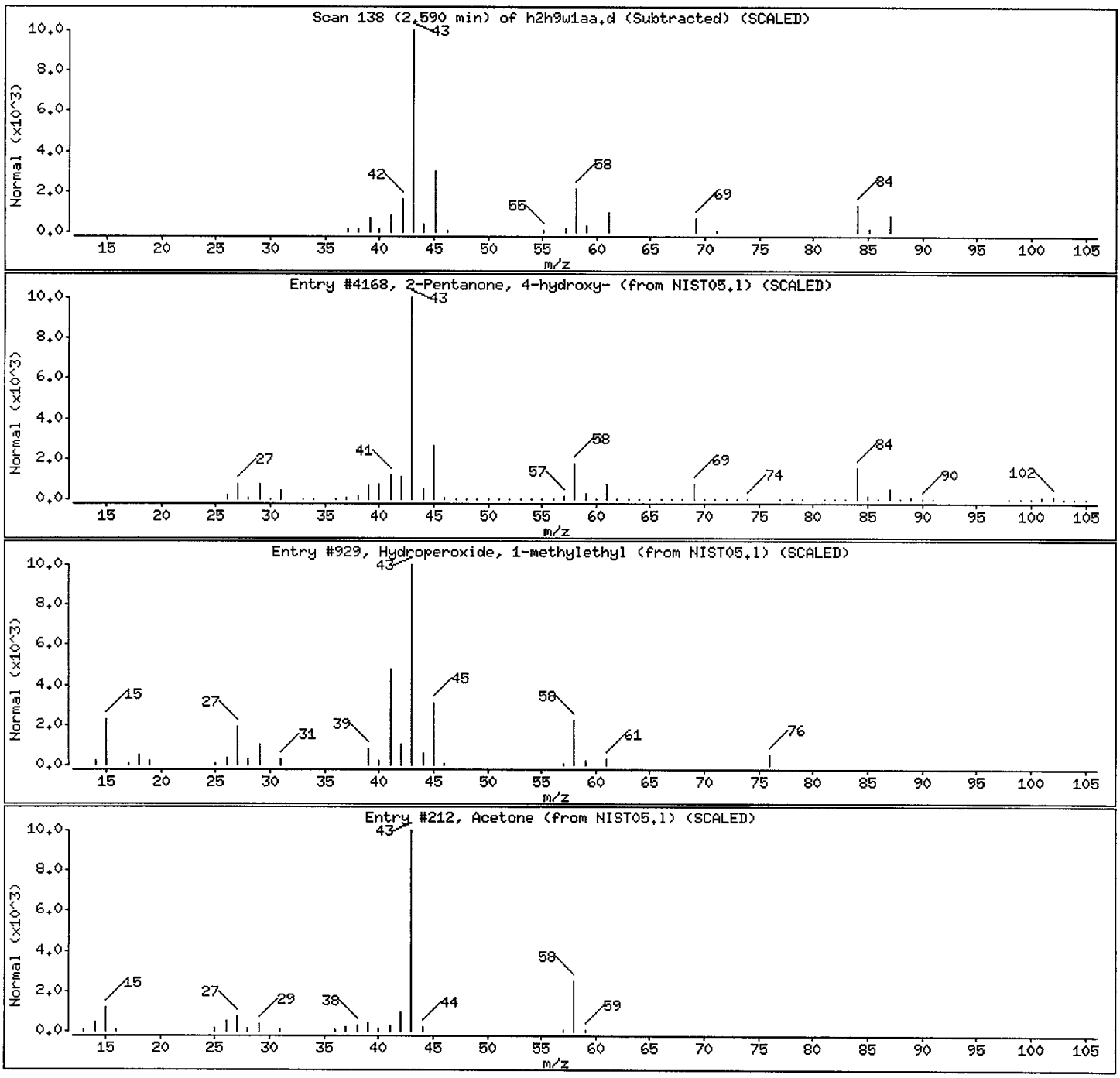
Client ID: INTRA-LAB BLANK | Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-	4161-60-8	NIST05.1	4168	83	C5H10O2	102
Hydroperoxide, 1-methylethyl	3031-75-2	NIST05.1	929	40	C3H8O2	76
Acetone	67-64-1	NIST05.1	212	25	C3H6O	58



Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

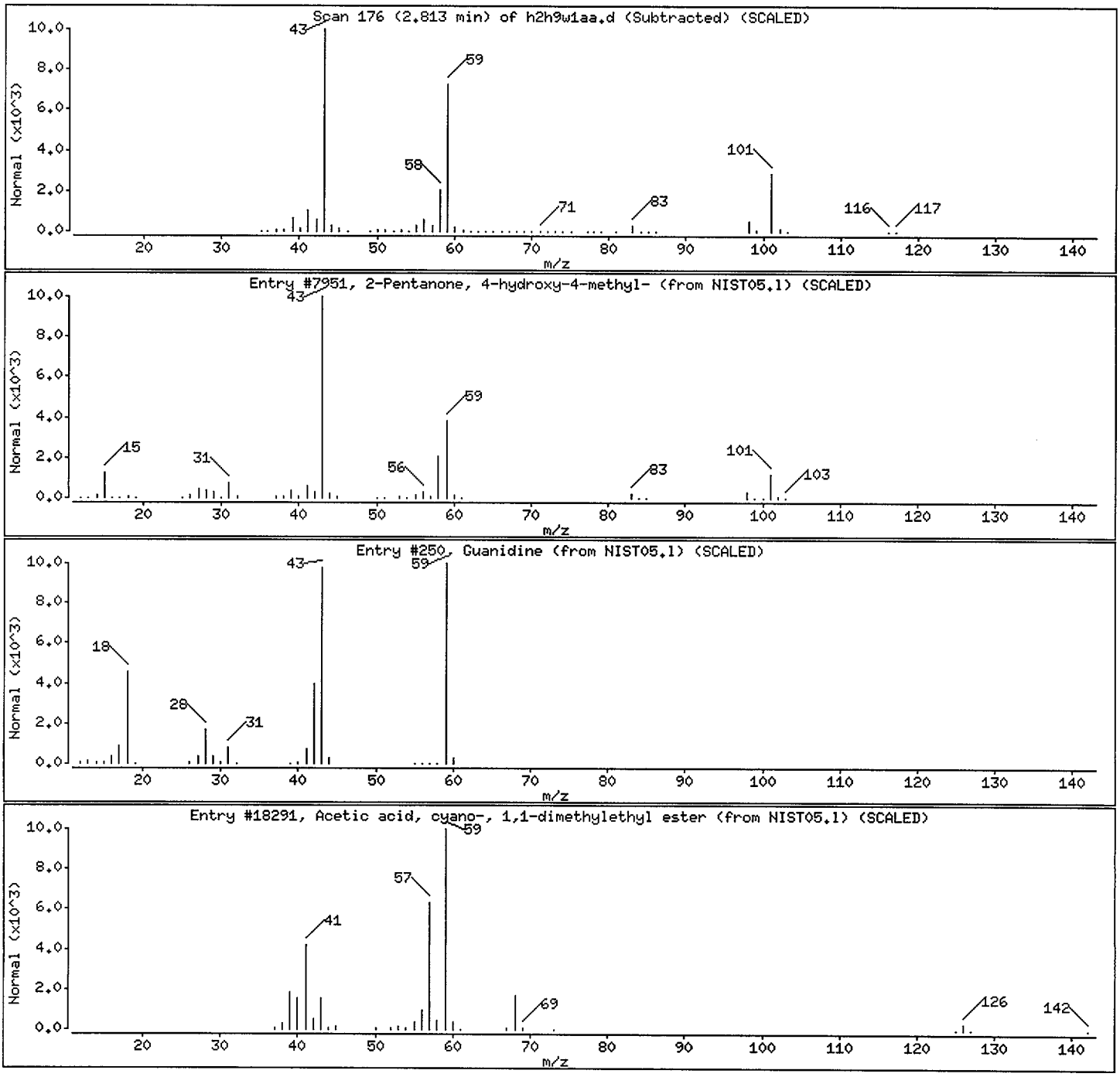
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.1	7951	53	C6H12O2	116
Guanidine	113-00-8	NIST05.1	250	38	CH5N3	59
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.1	18291	17	C7H11NO2	141



Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

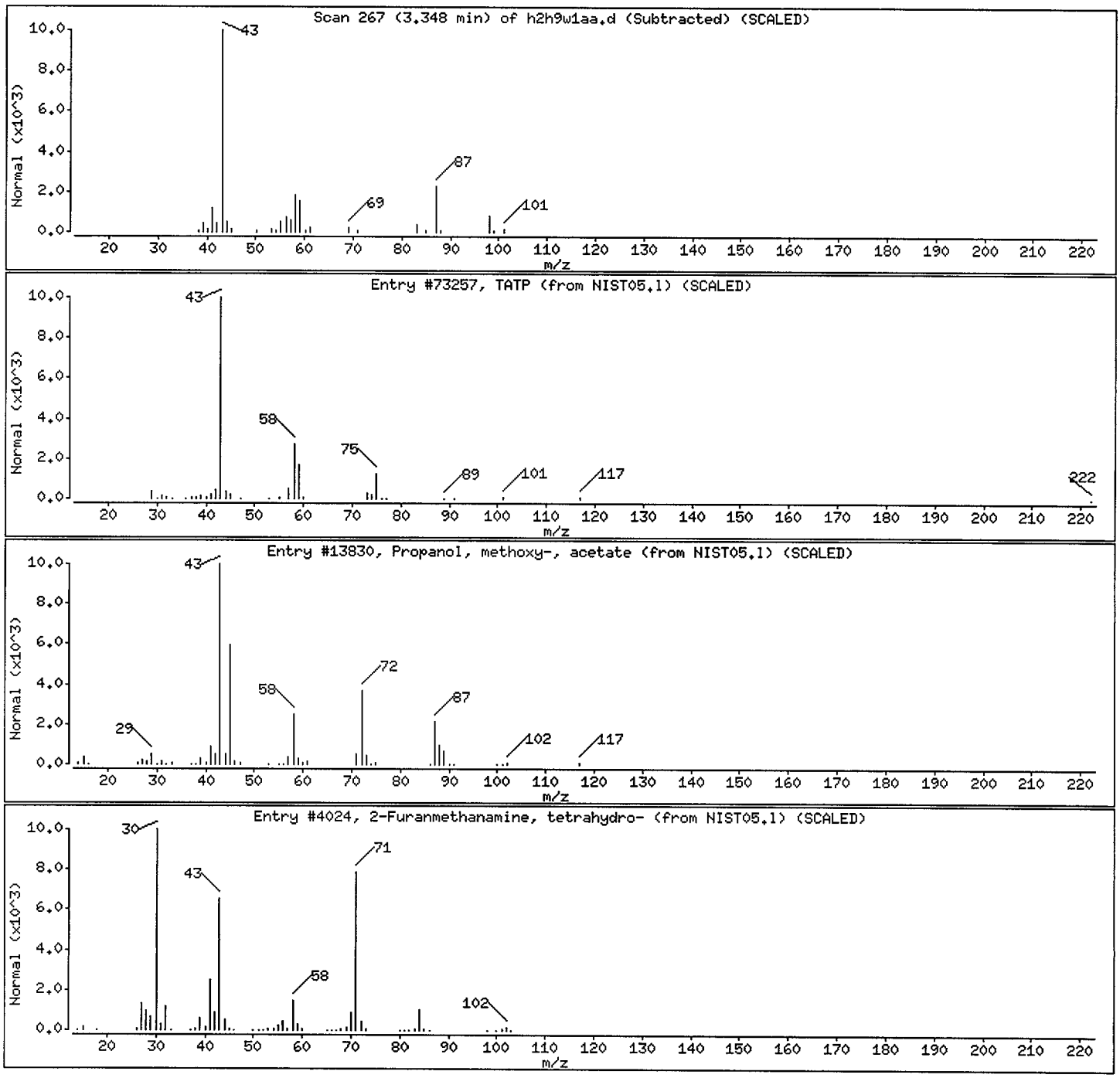
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
TATP	17088-37-8	NIST05.1	73257	38	C9H1806	222
Propanol, methoxy-, acetate	84540-57-8	NIST05.1	13830	36	C6H1203	132
2-Furanmethanamine, tetrahydro-	4795-29-3	NIST05.1	4024	9	C5H11NO	101



Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

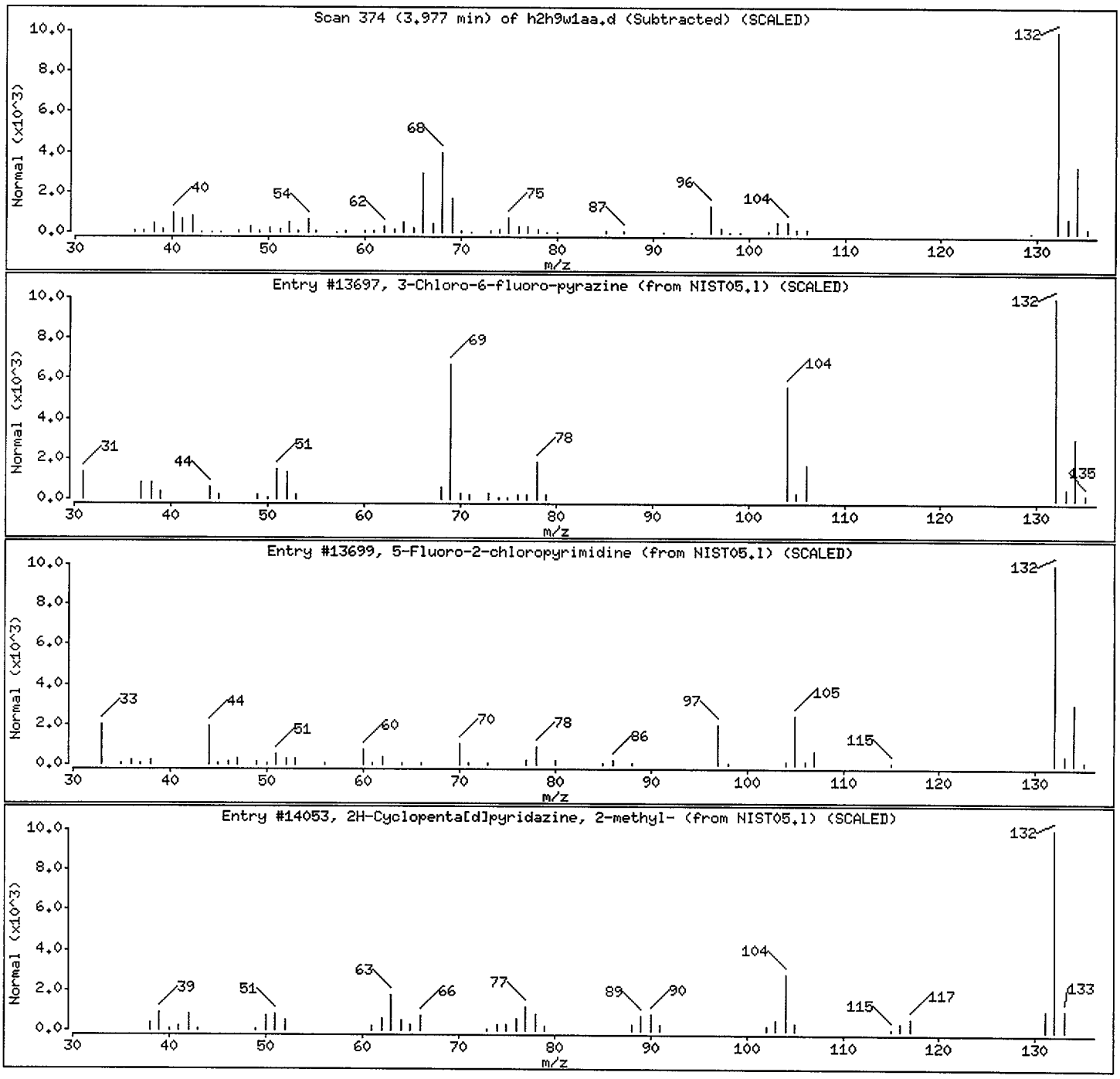
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Chloro-6-fluoro-pyrazine	1000146-10-7	NIST05.1	13697	27	C4H2ClFN2	132
5-Fluoro-2-chloropyrimidine	62802-42-0	NIST05.1	13699	16	C4H2ClFN2	132
2H-Cyclopenta[d]pyridazine, 2-methyl-	22291-85-6	NIST05.1	14053	12	C8H8N2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1aa.d

Date : 18-APR-2006 11:42

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9W1AA,,3,,,BLK,

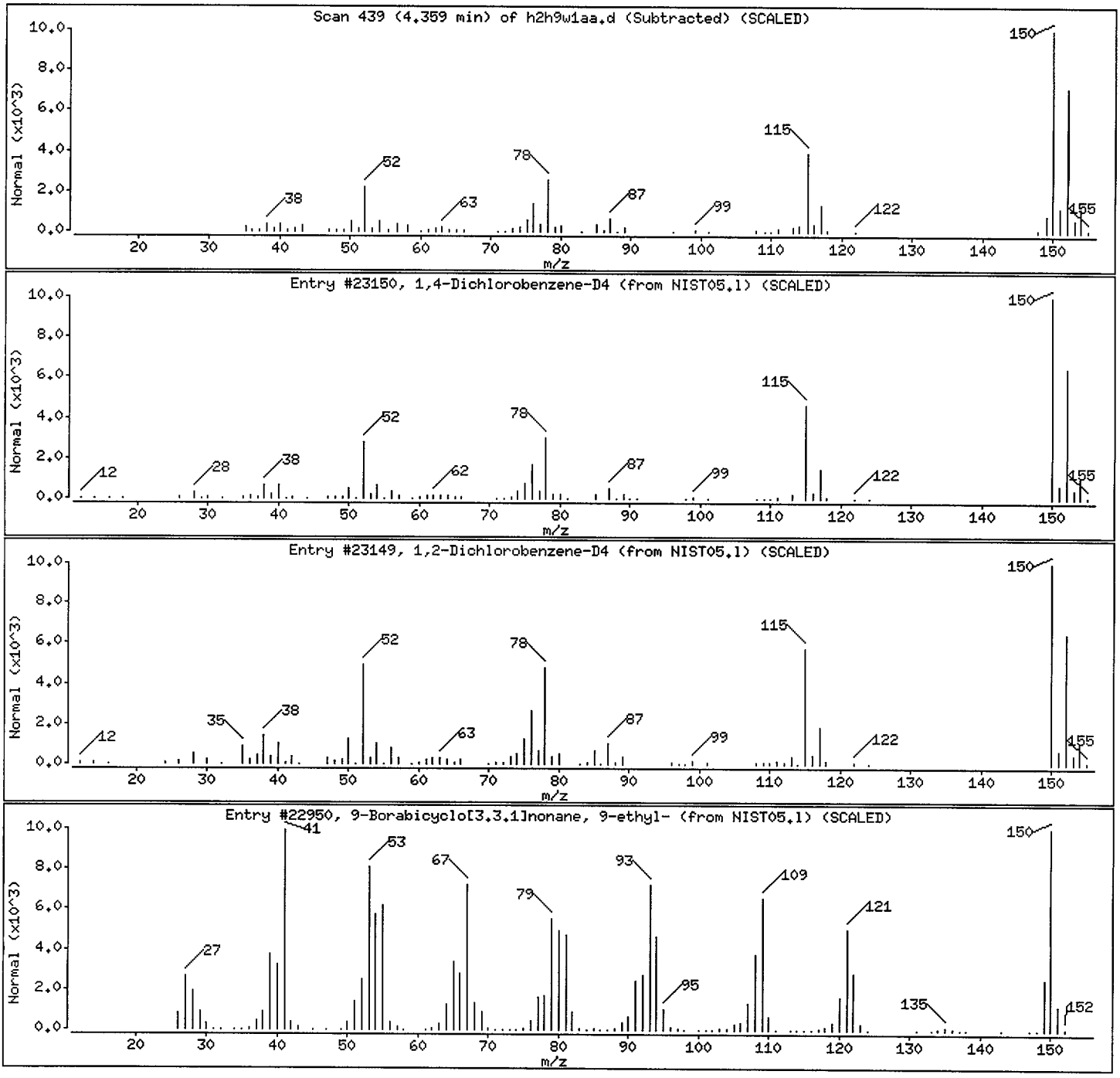
Volume Injected (uL): 1.0

Operator: 60841

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	94	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	94	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	38	C10H19B	150



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**82**	**(53 - 94)**	**SW846 8270C**
Acenaphthylene	81	(53 - 94)	SW846 8270C
Aniline	38	(20 - 73)	SW846 8270C
Anthracene	82	(58 - 99)	SW846 8270C
Benz(a)anthracene	84	(61 - 103)	SW846 8270C
Benzo(b)fluoranthene	75	(51 - 118)	SW846 8270C
Benzo(k)fluoranthene	82	(58 - 111)	SW846 8270C
Benzoic acid	63	(48 - 124)	SW846 8270C
Benzo(ghi)perylene	79	(54 - 108)	SW846 8270C
Benzo(a)pyrene	79	(61 - 100)	SW846 8270C
Benzyl alcohol	73	(54 - 103)	SW846 8270C
bis(2-Chloroethoxy) methane	69	(52 - 92)	SW846 8270C
bis(2-Chloroethyl)-ether	68	(51 - 91)	SW846 8270C
bis(2-Ethylhexyl) phthalate	75	(64 - 118)	SW846 8270C
4-Bromophenyl phenyl ether	96	(70 - 120)	SW846 8270C
Butyl benzyl phthalate	70	(64 - 109)	SW846 8270C
Carbazole	80	(55 - 96)	SW846 8270C
4-Chloroaniline	29	(20 - 67)	SW846 8270C
4-Chloro-3-methylphenol	**78**	**(64 - 107)**	**SW846 8270C**
2-Chloronaphthalene	76	(56 - 96)	SW846 8270C
2-Chlorophenol	**71**	**(58 - 98)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	90	(63 - 100)	SW846 8270C
Chrysene	80	(60 - 100)	SW846 8270C
Dibenz(a,h)anthracene	76	(63 - 110)	SW846 8270C
Dibenzofuran	84	(59 - 99)	SW846 8270C
Di-n-butyl phthalate	77	(61 - 107)	SW846 8270C
1,2-Dichlorobenzene	71	(50 - 90)	SW846 8270C
1,3-Dichlorobenzene	70	(49 - 89)	SW846 8270C
1,4-Dichlorobenzene	**72**	**(50 - 90)**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
3,3'-Dichlorobenzidine	47	(22 - 87)	SW846 8270C
2,4-Dichlorophenol	83	(60 - 102)	SW846 8270C
Diethyl phthalate	76	(56 - 104)	SW846 8270C
2,4-Dimethylphenol	58	(40 - 80)	SW846 8270C
Dimethyl phthalate	80	(60 - 100)	SW846 8270C
4,6-Dinitro-2-methylphenol	89	(49 - 123)	SW846 8270C
2,4-Dinitrophenol	83	(20 - 137)	SW846 8270C
2,4-Dinitrotoluene	**84**	**(57 - 121)**	**SW846 8270C**
2,6-Dinitrotoluene	86	(58 - 130)	SW846 8270C
Di-n-octyl phthalate	70	(66 - 121)	SW846 8270C
1,2-Diphenylhydrazine	71	(53 - 99)	SW846 8270C
Fluoranthene	95	(58 - 100)	SW846 8270C
Fluorene	85	(53 - 99)	SW846 8270C
Hexachlorobenzene	76	(63 - 103)	SW846 8270C
Hexachlorobutadiene	68	(46 - 86)	SW846 8270C
Hexachlorocyclopentadiene	62	(30 - 79)	SW846 8270C
Hexachloroethane	66	(52 - 92)	SW846 8270C
Indeno(1,2,3-cd)pyrene	75	(60 - 108)	SW846 8270C
Isophorone	69	(53 - 93)	SW846 8270C
2-Methylnaphthalene	85	(52 - 92)	SW846 8270C
2-Methylphenol	71	(55 - 95)	SW846 8270C
Naphthalene	71	(50 - 90)	SW846 8270C
2-Nitroaniline	72	(47 - 112)	SW846 8270C
3-Nitroaniline	54	(42 - 82)	SW846 8270C
4-Nitroaniline	66	(45 - 87)	SW846 8270C
Nitrobenzene	71	(55 - 95)	SW846 8270C
2-Nitrophenol	77	(55 - 105)	SW846 8270C
4-Nitrophenol	**67**	**(41 - 122)**	**SW846 8270C**
N-Nitrosodimethylamine	77	(42 - 96)	SW846 8270C
N-Nitrosodiphenylamine	89	(64 - 114)	SW846 8270C
N-Nitrosodi-n-propylamine	**71**	**(51 - 93)**	**SW846 8270C**
Pentachlorophenol	**70**	**(55 - 109)**	**SW846 8270C**
Phenanthrene	84	(57 - 97)	SW846 8270C
Phenol	**71**	**(58 - 98)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
bis(2-Chloroisopropyl) ether	62	(49 - 91)	SW846 8270C
Pyrene	**90**	**(60 - 107)**	**SW846 8270C**
Pyridine	55	(29 - 69)	SW846 8270C
1,2,4-Trichloro-benzene	**84**	**(53 - 93)**	**SW846 8270C**
2,4,5-Trichloro-phenol	83	(64 - 107)	SW846 8270C
2,4,6-Trichloro-phenol	86	(62 - 106)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(44 - 93)
Phenol-d5	70	(47 - 98)
Nitrobenzene-d5	69	(45 - 100)
2-Fluorobiphenyl	86	(49 - 100)
2,4,6-Tribromophenol	78	(42 - 124)
Terphenyl-d14	81	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**2730**	**ug/kg**	**82**	**SW846 8270C**
Acenaphthylene	3330	2700	ug/kg	81	SW846 8270C
Aniline	3330	1260	ug/kg	38	SW846 8270C
Anthracene	3330	2730	ug/kg	82	SW846 8270C
Benz(a)anthracene	3330	2800	ug/kg	84	SW846 8270C
Benzo(b)fluoranthene	3330	2490	ug/kg	75	SW846 8270C
Benzo(k)fluoranthene	3330	2740	ug/kg	82	SW846 8270C
Benzoic acid	3330	2110	ug/kg	63	SW846 8270C
Benzo(ghi)perylene	3330	2630	ug/kg	79	SW846 8270C
Benzo(a)pyrene	3330	2630	ug/kg	79	SW846 8270C
Benzyl alcohol	3330	2440	ug/kg	73	SW846 8270C
bis(2-Chloroethoxy) methane	3330	2300	ug/kg	69	SW846 8270C
bis(2-Chloroethyl)-ether	3330	2260	ug/kg	68	SW846 8270C
bis(2-Ethylhexyl) phthalate	3330	2500	ug/kg	75	SW846 8270C
4-Bromophenyl phenyl ether	3330	3200	ug/kg	96	SW846 8270C
Butyl benzyl phthalate	3330	2320	ug/kg	70	SW846 8270C
Carbazole	3330	2660	ug/kg	80	SW846 8270C
4-Chloroaniline	3330	971	ug/kg	29	SW846 8270C
4-Chloro-3-methylphenol	**3330**	**2600**	**ug/kg**	**78**	**SW846 8270C**
2-Chloronaphthalene	3330	2540	ug/kg	76	SW846 8270C
2-Chlorophenol	**3330**	**2380**	**ug/kg**	**71**	**SW846 8270C**
4-Chlorophenyl phenyl ether	3330	2990	ug/kg	90	SW846 8270C
Chrysene	3330	2660	ug/kg	80	SW846 8270C
Dibenz(a,h)anthracene	3330	2540	ug/kg	76	SW846 8270C
Dibenzofuran	3330	2790	ug/kg	84	SW846 8270C
Di-n-butyl phthalate	3330	2550	ug/kg	77	SW846 8270C
1,2-Dichlorobenzene	3330	2350	ug/kg	71	SW846 8270C
1,3-Dichlorobenzene	3330	2330	ug/kg	70	SW846 8270C
1,4-Dichlorobenzene	**3330**	**2390**	**ug/kg**	**72**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3,3'-Dichlorobenzidine	3330	1570	ug/kg	47	SW846 8270C
2,4-Dichlorophenol	3330	2770	ug/kg	83	SW846 8270C
Diethyl phthalate	3330	2520	ug/kg	76	SW846 8270C
2,4-Dimethylphenol	3330	1920	ug/kg	58	SW846 8270C
Dimethyl phthalate	3330	2670	ug/kg	80	SW846 8270C
4,6-Dinitro-2-methylphenol	3330	2950	ug/kg	89	SW846 8270C
2,4-Dinitrophenol	3330	2750	ug/kg	83	SW846 8270C
2,4-Dinitrotoluene	**3330**	**2810**	**ug/kg**	**84**	**SW846 8270C**
2,6-Dinitrotoluene	3330	2880	ug/kg	86	SW846 8270C
Di-n-octyl phthalate	3330	2340	ug/kg	70	SW846 8270C
1,2-Diphenylhydrazine	3330	2380	ug/kg	71	SW846 8270C
Fluoranthene	3330	3170	ug/kg	95	SW846 8270C
Fluorene	3330	2820	ug/kg	85	SW846 8270C
Hexachlorobenzene	3330	2520	ug/kg	76	SW846 8270C
Hexachlorobutadiene	3330	2270	ug/kg	68	SW846 8270C
Hexachlorocyclopentadiene	3330	2070	ug/kg	62	SW846 8270C
Hexachloroethane	3330	2190	ug/kg	66	SW846 8270C
Indeno(1,2,3-cd)pyrene	3330	2510	ug/kg	75	SW846 8270C
Isophorone	3330	2310	ug/kg	69	SW846 8270C
2-Methylnaphthalene	3330	2820	ug/kg	85	SW846 8270C
2-Methylphenol	3330	2380	ug/kg	71	SW846 8270C
Naphthalene	3330	2380	ug/kg	71	SW846 8270C
2-Nitroaniline	3330	2390	ug/kg	72	SW846 8270C
3-Nitroaniline	3330	1790	ug/kg	54	SW846 8270C
4-Nitroaniline	3330	2200	ug/kg	66	SW846 8270C
Nitrobenzene	3330	2370	ug/kg	71	SW846 8270C
2-Nitrophenol	3330	2560	ug/kg	77	SW846 8270C
4-Nitrophenol	**3330**	**2230**	**ug/kg**	**67**	**SW846 8270C**
N-Nitrosodimethylamine	3330	2560	ug/kg	77	SW846 8270C
N-Nitrosodiphenylamine	3330	2960	ug/kg	89	SW846 8270C
N-Nitrosodi-n-propylamine	**3330**	**2360**	**ug/kg**	**71**	**SW846 8270C**
Pentachlorophenol	**3330**	**2320**	**ug/kg**	**70**	**SW846 8270C**
Phenanthrene	3330	2810	ug/kg	84	SW846 8270C
Phenol	**3330**	**2360**	**ug/kg**	**71**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-075

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
bis(2-Chloroisopropyl) ether	3330	2060	ug/kg	62	SW846 8270C
Pyrene	**3330**	**3010**	**ug/kg**	**90**	**SW846 8270C**
Pyridine	3330	1840	ug/kg	55	SW846 8270C
1,2,4-Trichloro-benzene	**3330**	**2790**	**ug/kg**	**84**	**SW846 8270C**
2,4,5-Trichloro-phenol	3330	2780	ug/kg	83	SW846 8270C
2,4,6-Trichloro-phenol	3330	2850	ug/kg	86	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(44 - 93)
Phenol-d5	70	(47 - 98)
Nitrobenzene-d5	69	(45 - 100)
2-Fluorobiphenyl	86	(49 - 100)
2,4,6-Tribromophenol	78	(42 - 124)
Terphenyl-d14	81	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Lab Smp Id: H2H9W1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 18-APR-2006 12:06
Operator : 60841 Inst ID: md.i
Smp Info : H2H9W1AC,,3,,,LCS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 11:39 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	59591	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	190869	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	132384	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	231091	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	251568	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	235037	20.0000	
$ 7 2-Fluorophenol	112	3.037	3.025	(0.729)	198230	47.5678	1580
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	265228	52.7625	1760
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	149634	34.7786	1160
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	378490	43.3679	1440
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	86334	58.9179	1960
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	497192	40.6337	1350
13 N-Nitrosodimethylamine	74	2.055	2.050	(0.494)	152681	76.7641	2560
14 Pyridine	79	2.067	2.067	(0.496)	220144	55.3546	1840
15 Phenol (ccc)	94	3.871	3.871	(0.929)	375768	70.7267	2360

Data File: /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/Kg)
16 Aniline	93	3.877	3.877	(0.931)	224210	37.7909	1260
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	251922	67.7575	2260
18 2-Chlorophenol	128	3.994	3.988	(0.959)	282139	71.4270	2380
19 1,3-Dichlorobenzene	146	4.130	4.124	(0.992)	316311	69.9292	2330
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.003)	327895	71.7581	2390
21 Benzyl alcohol	108	4.329	4.323	(1.040)	192924	73.2232	2440
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	308581	70.4625	2350
23 2-Methylphenol	108	4.476	4.476	(1.075)	269225	71.3316	2380
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	393070	61.6879	2060
25 4-Methylphenol	108	4.652	4.647	(1.117)	587755	149.801	4990
26 3&4 Methylphenol	108	4.652	4.647	(1.117)	587755	149.801	4990
27 N-Nitroso-di-n-propylamine###	70	4.658	4.658	(1.119)	207539	70.8856	2360
28 Hexachloroethane	117	4.723	4.723	(1.134)	116894	65.7771	2190
29 Nitrobenzene	77	4.835	4.835	(0.841)	296801	71.1496	2370
30 Isophorone	82	5.146	5.146	(0.895)	535990	69.2002	2310
31 2-Nitrophenol (ccc)	139	5.264	5.263	(0.915)	145337	76.8375	2560
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	242204	57.7334	1920
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	307357	69.0040	2300
34 Benzoic acid	122	5.522	5.510	(0.960)	137428	63.3902	2110
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	277657	83.1901	2770
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	310552	83.5921	2790
37 Naphthalene	128	5.781	5.781	(1.005)	798565	71.4493	2380
38 4-Chloroaniline	127	5.898	5.898	(1.026)	140403	29.1432	971(R)
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	182732	68.1684	2270
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	273225	77.9884	2600
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	604486	84.7252	2820
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.853)	184824	62.1999	2070
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	231143	85.4436	2850
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	249067	83.2582	2780
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	607787	76.3445	2540
46 2-Nitroaniline	65	7.837	7.831	(0.932)	181941	71.8205	2390
47 Acenaphthylene	152	8.213	8.213	(0.976)	1012391	81.0262	2700
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	733285	80.0579	2670
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	169497	86.5695	2880
50 3-Nitroaniline	138	8.413	8.413	(1.000)	126054	53.8032	1790
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	614472	81.9026	2730
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.015)	81567	82.6401	2750
53 Dibenzofuran	168	8.654	8.648	(1.029)	938328	83.8350	2790
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	97939	67.0263	2230
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	222599	84.3964	2810
56 Fluorene	166	9.036	9.036	(1.074)	788127	84.4931	2820
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	416234	89.7047	2990
58 Diethyl phthalate	149	9.024	9.024	(1.073)	682904	75.7531	2520
59 4-Nitroaniline	138	9.118	9.118	(1.084)	156136	65.8968	2200
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	128871	88.6352	2950
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	535929	88.6671	2960
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	670378	71.5144	2380

Data File: /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	246701	95.9292	3200
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	243351	75.6915	2520
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	144590	69.4663	2320(R)
66 Phenanthrene	178	9.946	9.946	(1.002)	1175442	84.3558	2810
67 Anthracene	178	9.988	9.982	(1.006)	1141900	81.9168	2730
68 Carbazole	167	10.134	10.134	(1.021)	1050033	79.9502	2660
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1139733	76.5237	2550
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1431299	95.0968	3170
71 Pyrene	202	11.086	11.080	(0.923)	1451989	90.2419	3010
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	502488	69.6885	2320
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1383177	83.9700	2800
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	293755	47.1086	1570
75 Chrysene	228	12.032	12.026	(1.002)	1257552	79.7306	2660
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	688091	75.0901	2500
77 Di-n-octyl phthalate (ccc)	149	12.585	12.584	(0.951)	1207729	70.2824	2340
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1347646	74.6143	2490
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.979)	1517032	82.2526	2740
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.997)	1188503	78.9589	2630
81 Indeno(1,2,3-cd)pyrene	276	14.241	14.241	(1.076)	1257675	75.4153	2510
82 Dibenz(a,h)anthracene	278	14.247	14.247	(1.077)	1065986	76.2635	2540
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.098)	1114447	79.0105	2630

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h9w1ac.d
Lab Smp Id: H2H9W1AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	59591	-3.77
2 Naphthalene-d8	196946	98473	393892	190869	-3.09
3 Acenaphthene-d10	140395	70198	280790	132384	-5.71
4 Phenanthrene-d10	245474	122737	490948	231091	-5.86
5 Chrysene-d12	253631	126816	507262	251568	-0.81
6 Perylene-d12	225613	112806	451226	235037	4.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.23	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/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: H2H9W1AC
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D040000
Fraction: SV
Client Smp ID: INTRA-LAB CHECK
Operator: 60841
SampleType: METHOD SPIKE
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	3330	2560	76.76	35-150
14 Pyridine	3330	1840	55.35	35-150
15 Phenol (ccc)	3330	2360	70.73	59-117
16 Aniline	3330	1260	37.79	35-150
17 Bis(2-chloroethyl)	3330	2260	67.76	35-150
18 2-Chlorophenol	3330	2380	71.43	63-114
19 1,3-Dichlorobenzen	3330	2330	69.93	35-150
20 1,4-Dichlorobenzen	3330	2390	71.76	65-111
21 Benzyl alcohol	3330	2440	73.22	35-150
22 1,2-Dichlorobenzen	3330	2350	70.46	35-150
23 2-Methylphenol	3330	2380	71.33	35-150
24 2,2'-Oxybis(1-Chlo	3330	2060	61.69	35-150
25 4-Methylphenol	6670	4990	74.90	35-150
26 3&4 Methylphenol	6670	4990	74.90	35-150
27 N-Nitroso-di-n-pro	3330	2360	70.89	62-114
28 Hexachloroethane	3330	2190	65.78	35-150
29 Nitrobenzene	3330	2370	71.15	35-150
30 Isophorone	3330	2310	69.20	35-150
31 2-Nitrophenol (ccc	3330	2560	76.84	35-150
32 2,4-Dimethyphenol	3330	1920	57.73	35-150
33 Bis(2-chloroethoxy	3330	2300	69.00	35-150
34 Benzoic acid	3330	2110	63.39	35-150
35 2,4-Dichlorophenol	3330	2770	83.19	35-150
36 1,2,4-Trichloroben	3330	2790	83.59	66-113
37 Naphthalene	3330	2380	71.45	60-100
38 4-Chloroaniline	3330	971	29.14*	35-150
39 Hexachlorobutadien	3330	2270	68.17	35-150
40 4-Chloro-3-methylp	3330	2600	77.99	71-118
41 2-Methylnaphthalen	3330	2820	84.73	35-150
42 Hexachlorocyclopen	3330	2070	62.20	35-150
43 2,4,6-Trichlorophe	3330	2850	85.44	35-150
44 2,4,5-Trichlorphen	3330	2780	83.26	35-150
45 2-Chloronaphthalen	3330	2540	76.34	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
46 2-Nitroaniline	3330	2390	71.82	35-150
47 Acenaphthylene	3330	2700	81.03	60-106
48 Dimethyl phthalate	3330	2670	80.06	35-150
49 2,6-Dinitrotoluene	3330	2880	86.57	35-150
50 3-Nitroaniline	3330	1790	53.80	35-150
51 Acenaphthene (ccc)	3330	2730	81.90	65-107
52 2,4-Dinitrophenol	3330	2750	82.64	35-150
53 Dibenzofuran	3330	2790	83.84	35-150
54 4-Nitrophenol ##sp	3330	2230	67.03	61-128
55 2,4-Dinitrotoluene	3330	2810	84.40	72-131
56 Fluorene	3330	2820	84.49	60-113
57 4-Chlorophenyl phe	3330	2990	89.70	35-150
58 Diethyl phthalate	3330	2520	75.75	35-150
59 4-Nitroaniline	3330	2200	65.90	35-150
60 4,6-Dinitro-2-meth	3330	2950	88.64	35-150
61 N-Ndpa / diphenyla	3330	2960	88.67	35-150
62 1,2-Diphenylhydraz	3330	2380	71.51	35-150
63 4-Bromophenyl phen	3330	3200	95.93	35-150
64 Hexachlorobenzene	3330	2520	75.69	35-150
65 Pentachlorophenol	3330	2320	69.47*	71-122
66 Phenanthrene	3330	2810	84.36	65-108
67 Anthracene	3330	2730	81.92	67-114
68 Carbazole	3330	2660	79.95	35-150
69 Di-n-butyl phthala	3330	2550	76.52	35-150
70 Fluoranthene (ccc)	3330	3170	95.10	65-115
71 Pyrene	3330	3010	90.24	67-114
72 Butyl benzyl phtha	3330	2320	69.69	35-150
73 Benzo(a)Anthracene	3330	2800	83.97	70-114
74 3,3'-Dichlorobenzi	3330	1570	47.11	35-150
75 Chrysene	3330	2660	79.73	68-111
76 Bis(2-ethylhexyl)	3330	2500	75.09	35-150
77 Di-n-octyl phthala	3330	2340	70.28	35-150
78 Benzo(b)fluoranthe	3330	2490	74.61	60-120
79 Benzo(k)fluoranthe	3330	2740	82.25	61-119
80 Benzo(a)pyrene (cc	3330	2630	78.96	67-111
81 Indeno(1,2,3-cd)py	3330	2510	75.42	67-120
82 Dibenz(a,h)anthrac	3330	2540	76.26	71-120
83 Benzo(g,h,i)peryle	3330	2630	79.01	63-120

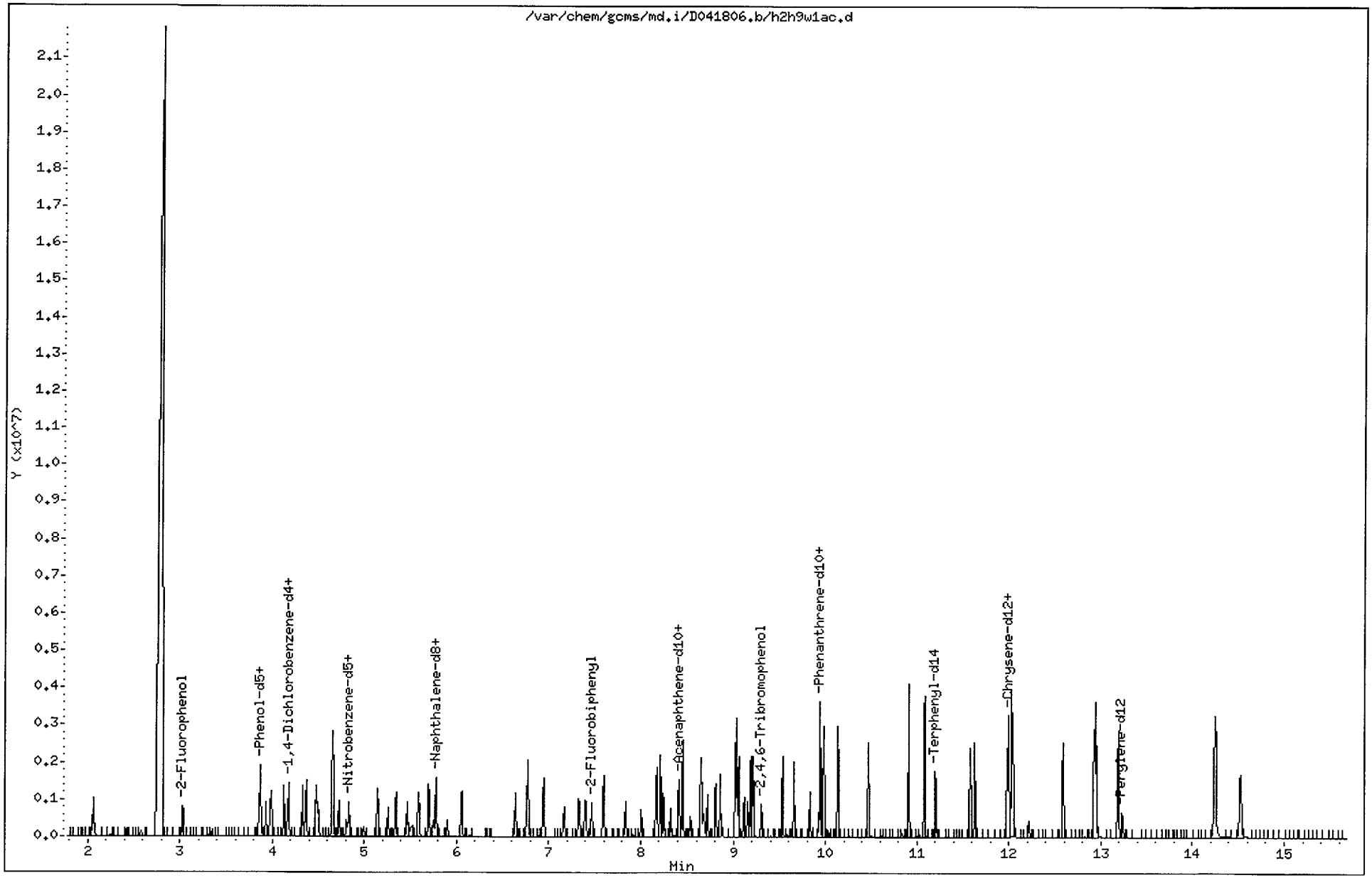
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	1580	63.42	44-93
$ 8 Phenol-d5	2500	1760	70.35	47-98

Data File: /chem/gcms/md.i/D041806.b/h2h9w1ac.d
Report Date: 18-Apr-2006 12:23

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	1670	1160	69.56	45-100
$ 10 2-Fluorobiphenyl	1670	1440	86.74	49-100
$ 11 2,4,6-Tribromophen	2500	1960	78.56	44-124
$ 12 Terphenyl-d14	1670	1350	81.27	54-121

Data File: /var/chem/gcms/md.i/D041806.b/h2h9w1ac.d
Date : 18-APR-2006 12:06
Client ID: INTRA-LAB CHECK
Sample Info: H2H9W1AC,,3,,,LCS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**39 a**	**(44 - 100)**			**SW846 8270C**
	51	**(44 - 100)**	**20**	**(0-39)**	**SW846 8270C**
Acenaphthylene	35 a	(43 - 99)			SW846 8270C
	59	(43 - 99)	28	(0-38)	SW846 8270C
Aniline	33	(20 - 74)			SW846 8270C
	36	(20 - 74)	9.5	(0-50)	SW846 8270C
Anthracene	14 a	(40 - 111)			SW846 8270C
	21 a	(40 - 111)	30	(0-46)	SW846 8270C
Benz(a)anthracene	3.7 a	(20 - 133)			SW846 8270C
	4.8 a	(20 - 133)	25	(0-47)	SW846 8270C
Benzo(b)fluoranthene	0.0	(32 - 127)			SW846 8270C
	2.7 a,p	(32 - 127)	200	(0-50)	SW846 8270C
Benzo(k)fluoranthene	0.0	(28 - 123)			SW846 8270C
	2.0 a,p	(28 - 123)	200	(0-50)	SW846 8270C
Benzoic acid	17 a	(20 - 145)			SW846 8270C
	20	(20 - 145)	20	(0-50)	SW846 8270C
Benzo(ghi)perylene	0.0	(39 - 119)			SW846 8270C
	0.0	(39 - 119)	0.0	(0-46)	SW846 8270C
Benzo(a)pyrene	0.0	(30 - 119)			SW846 8270C
	3.2 a,p	(30 - 119)	200	(0-48)	SW846 8270C
Benzyl alcohol	74	(47 - 110)			SW846 8270C
	78	(47 - 110)	5.9	(0-50)	SW846 8270C
bis(2-Chloroethoxy) methane	68	(48 - 94)			SW846 8270C
	75	(48 - 94)	9.6	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	66	(44 - 98)			SW846 8270C
	67	(44 - 98)	2.2	(0-49)	SW846 8270C
bis(2-Ethylhexyl) phthalate	70	(57 - 127)			SW846 8270C
	76	(57 - 127)	7.5	(0-46)	SW846 8270C
4-Bromophenyl phenyl ether	71	(61 - 127)			SW846 8270C
	74	(61 - 127)	3.3	(0-46)	SW846 8270C
Butyl benzyl phthalate	57	(42 - 130)			SW846 8270C
	63	(42 - 130)	9.5	(0-47)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbazole	25 a	(41 - 105)			SW846 8270C
	33 a	(41 - 105)	28	(0-43)	SW846 8270C
4-Chloroaniline	36	(20 - 69)			SW846 8270C
	43	(20 - 69)	17	(0-50)	SW846 8270C
4-Chloro-3-methylphenol	**53**	**(52 - 118)**			**SW846 8270C**
	62	**(52 - 118)**	**16**	**(0-46)**	**SW846 8270C**
2-Chloronaphthalene	29 a	(50 - 100)			SW846 8270C
	37 a	(50 - 100)	25	(0-37)	SW846 8270C
2-Chlorophenol	**52**	**(49 - 105)**			**SW846 8270C**
	56	**(49 - 105)**	**7.2**	**(0-46)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	65	(56 - 103)			SW846 8270C
	73	(56 - 103)	12	(0-43)	SW846 8270C
Chrysene	3.7 a	(24 - 125)			SW846 8270C
	5.1 a	(24 - 125)	31	(0-46)	SW846 8270C
Dibenz(a,h)anthracene	0.0	(36 - 129)			SW846 8270C
	0.0	(36 - 129)	0.0	(0-47)	SW846 8270C
Dibenzofuran	24 a	(52 - 102)			SW846 8270C
	32 a	(52 - 102)	30	(0-45)	SW846 8270C
Di-n-butyl phthalate	71	(54 - 111)			SW846 8270C
	74	(54 - 111)	3.7	(0-42)	SW846 8270C
1,2-Dichlorobenzene	102 a	(41 - 94)			SW846 8270C
	180 a	(41 - 94)	8.4	(0-44)	SW846 8270C
1,3-Dichlorobenzene	53	(43 - 89)			SW846 8270C
	58	(43 - 89)	7.6	(0-44)	SW846 8270C
1,4-Dichlorobenzene	**55**	**(45 - 90)**			**SW846 8270C**
	65	**(45 - 90)**	**8.0**	**(0-43)**	**SW846 8270C**
3,3'-Dichlorobenzidine	15 a	(20 - 100)			SW846 8270C
	20	(20 - 100)	26	(0-50)	SW846 8270C
2,4-Dichlorophenol	48	(43 - 117)			SW846 8270C
	56	(43 - 117)	15	(0-46)	SW846 8270C
Diethyl phthalate	68	(48 - 106)			SW846 8270C
	70	(48 - 106)	2.6	(0-41)	SW846 8270C
2,4-Dimethylphenol	48	(36 - 97)			SW846 8270C
	58	(36 - 97)	18	(0-50)	SW846 8270C
Dimethyl phthalate	69	(53 - 102)			SW846 8270C
	72	(53 - 102)	3.8	(0-42)	SW846 8270C
4,6-Dinitro-2-methylphenol	7.3 a	(20 - 145)			SW846 8270C
	8.2 a	(20 - 145)	11	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrophenol	61	(20 - 150)			SW846 8270C
	61	(20 - 150)	0.0	(0-50)	SW846 8270C
2,4-Dinitrotoluene	**42 a**	**(44 - 127)**			**SW846 8270C**
	52	**(44 - 127)**	**21**	**(0-46)**	**SW846 8270C**
2,6-Dinitrotoluene	64	(45 - 136)			SW846 8270C
	66	(45 - 136)	2.8	(0-40)	SW846 8270C
Di-n-octyl phthalate	52 a	(57 - 127)			SW846 8270C
	57	(57 - 127)	8.3	(0-41)	SW846 8270C
1,2-Diphenylhydrazine	25 a	(42 - 111)			SW846 8270C
	30 a	(42 - 111)	21	(0-45)	SW846 8270C
Fluoranthene	11 a	(34 - 112)			SW846 8270C
	17 a	(34 - 112)	28	(0-47)	SW846 8270C
Fluorene	29 a	(43 - 105)			SW846 8270C
	47	(43 - 105)	31	(0-44)	SW846 8270C
Hexachlorobenzene	29 a	(55 - 107)			SW846 8270C
	35 a	(55 - 107)	18	(0-45)	SW846 8270C
Hexachlorobutadiene	65	(40 - 88)			SW846 8270C
	73	(40 - 88)	11	(0-38)	SW846 8270C
Hexachlorocyclopenta-diene	0.0	(20 - 85)			SW846 8270C
	7.1 a,p	(20 - 85)	200	(0-50)	SW846 8270C
Hexachloroethane	115 a	(42 - 95)			SW846 8270C
	125 a	(42 - 95)	8.8	(0-42)	SW846 8270C
Indeno(1,2,3-cd)pyrene	0.0	(41 - 122)			SW846 8270C
	0.0	(41 - 122)	0.0	(0-44)	SW846 8270C
Isophorone	67	(48 - 95)			SW846 8270C
	74	(48 - 95)	9.4	(0-36)	SW846 8270C
2-Methylnaphthalene	87	(48 - 97)			SW846 8270C
	177 a	(48 - 97)	25	(0-38)	SW846 8270C
2-Methylphenol	69	(48 - 105)			SW846 8270C
	78	(48 - 105)	12	(0-49)	SW846 8270C
Naphthalene	79	(42 - 94)			SW846 8270C
	138 a	(42 - 94)	19	(0-42)	SW846 8270C
2-Nitroaniline	39	(36 - 121)			SW846 8270C
	48	(36 - 121)	21	(0-41)	SW846 8270C
3-Nitroaniline	42	(20 - 104)			SW846 8270C
	41	(20 - 104)	2.9	(0-41)	SW846 8270C
4-Nitroaniline	34	(30 - 99)			SW846 8270C
	41	(30 - 99)	19	(0-50)	SW846 8270C
Nitrobenzene	53	(47 - 100)			SW846 8270C
	64	(47 - 100)	18	(0-42)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Nitrophenol	40	(38 - 118)			SW846 8270C
	46	(38 - 118)	15	(0-45)	SW846 8270C
4-Nitrophenol	**23 a**	**(34 - 128)**			**SW846 8270C**
	33 a	**(34 - 128)**	**38**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	72	(34 - 96)			SW846 8270C
	75	(34 - 96)	4.1	(0-47)	SW846 8270C
N-Nitrosodiphenylamine	80	(55 - 124)			SW846 8270C
	81	(55 - 124)	1.1	(0-43)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**69**	**(47 - 98)**			**SW846 8270C**
	70	**(47 - 98)**	**1.3**	**(0-40)**	**SW846 8270C**
Pentachlorophenol	**4.7 a**	**(20 - 139)**			**SW846 8270C**
	9.8 a,p	**(20 - 139)**	**70**	**(0-50)**	**SW846 8270C**
Phenanthrene	24 a	(32 - 115)			SW846 8270C
	39	(32 - 115)	25	(0-45)	SW846 8270C
Phenol	**76**	**(47 - 105)**			**SW846 8270C**
	95	**(47 - 105)**	**13**	**(0-42)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	62	(42 - 97)			SW846 8270C
	65	(42 - 97)	3.8	(0-40)	SW846 8270C
Pyrene	**12 a**	**(30 - 131)**			**SW846 8270C**
	17 a	**(30 - 131)**	**26**	**(0-48)**	**SW846 8270C**
Pyridine	56	(20 - 76)			SW846 8270C
	59	(20 - 76)	6.2	(0-50)	SW846 8270C
1,2,4-Trichloro-benzene	**55**	**(47 - 95)**			**SW846 8270C**
	77	**(47 - 95)**	**17**	**(0-46)**	**SW846 8270C**
2,4,5-Trichloro-phenol	29 a	(47 - 120)			SW846 8270C
	35 a	(47 - 120)	19	(0-46)	SW846 8270C
2,4,6-Trichloro-phenol	28 a	(40 - 121)			SW846 8270C
	32 a	(40 - 121)	11	(0-38)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	37 *	(44 - 93)
	46	(44 - 93)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Phenol-d5	50	(47 - 98)
	56	(47 - 98)
Nitrobenzene-d5	54	(45 - 100)
	59	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
	55	(49 - 100)
2,4,6-Tribromophenol	9.5 *	(42 - 124)
	17 *	(42 - 124)
Terphenyl-d14	9.2 *	(54 - 121)
	14 *	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**570**	**3330**	**1860**	**ug/kg**	**39 a**		**SW846 8270C**
	570	**3330**	**2280**	**ug/kg**	**51**	**20**	**SW846 8270C**
Acenaphthylene	1300	3330	2420	ug/kg	35 a		SW846 8270C
	1300	3330	3220	ug/kg	59	28	SW846 8270C
Aniline	ND	3330	1100	ug/kg	33		SW846 8270C
	ND	3330	1210	ug/kg	36	9.5	SW846 8270C
Anthracene	200	3330	673	ug/kg	14 a		SW846 8270C
	200	3330	909	ug/kg	21 a	30	SW846 8270C
Benz(a)anthracene	ND	3330	124	ug/kg	3.7 a		SW846 8270C
	ND	3330	159	ug/kg	4.8 a	25	SW846 8270C
Benzo(b)fluoranthene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	2.7	200	SW846 8270C
	Qualifiers: a,p						
Benzo(k)fluoranthene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	2.0	200	SW846 8270C
	Qualifiers: a,p						
Benzoic acid	ND	3330		ug/kg	17 a		SW846 8270C
	ND	3330		ug/kg	20	20	SW846 8270C
Benzo(ghi)perylene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	0.0	0.0	SW846 8270C
Benzo(a)pyrene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	3.2	200	SW846 8270C
	Qualifiers: a,p						
Benzyl alcohol	ND	3330	2460	ug/kg	74		SW846 8270C
	ND	3330	2610	ug/kg	78	5.9	SW846 8270C
bis(2-Chloroethoxy) methane	ND	3330	2280	ug/kg	68		SW846 8270C
	ND	3330	2510	ug/kg	75	9.6	SW846 8270C
bis(2-Chloroethyl)-ether	ND	3330	2190	ug/kg	66		SW846 8270C
	ND	3330	2240	ug/kg	67	2.2	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	3330	2580	ug/kg	70		SW846 8270C
	ND	3330	2780	ug/kg	76	7.5	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Bromophenyl phenyl ether	ND	3330	2370	ug/kg	71		SW846 8270C
	ND	3330	2450	ug/kg	74	3.3	SW846 8270C
Butyl benzyl phthalate	ND	3330	1910	ug/kg	57		SW846 8270C
	ND	3330	2100	ug/kg	63	9.5	SW846 8270C
Carbazole	ND	3330	821	ug/kg	25 a		SW846 8270C
	ND	3330	1090	ug/kg	33 a	28	SW846 8270C
4-Chloroaniline	ND	3330	1210	ug/kg	36		SW846 8270C
	ND	3330	1430	ug/kg	43	17	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**3330**	**1770**	**ug/kg**	**53**		**SW846 8270C**
	ND	**3330**	**2080**	**ug/kg**	**62**	**16**	**SW846 8270C**
2-Chloronaphthalene	ND	3330	952	ug/kg	29 a		SW846 8270C
	ND	3330	1230	ug/kg	37 a	25	SW846 8270C
2-Chlorophenol	**ND**	**3330**	**1730**	**ug/kg**	**52**		**SW846 8270C**
	ND	**3330**	**1860**	**ug/kg**	**56**	**7.2**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	3330	2160	ug/kg	65		SW846 8270C
	ND	3330	2440	ug/kg	73	12	SW846 8270C
Chrysene	ND	3330	124	ug/kg	3.7 a		SW846 8270C
	ND	3330	170	ug/kg	5.1 a	31	SW846 8270C
Dibenz(a,h)anthracene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	0.0	0.0	SW846 8270C
Dibenzofuran	ND	3330	790	ug/kg	24 a		SW846 8270C
	ND	3330	1070	ug/kg	32 a	30	SW846 8270C
Di-n-butyl phthalate	ND	3330	2370	ug/kg	71		SW846 8270C
	ND	3330	2460	ug/kg	74	3.7	SW846 8270C
1,2-Dichlorobenzene	26000	3330	29500	ug/kg	102 a		SW846 8270C
	26000	3330	32100	ug/kg	180 a	8.4	SW846 8270C
1,3-Dichlorobenzene	ND	3330	1780	ug/kg	53		SW846 8270C
	ND	3330	1920	ug/kg	58	7.6	SW846 8270C
1,4-Dichlorobenzene	**1900**	**3330**	**3710**	**ug/kg**	**55**		**SW846 8270C**
	1900	**3330**	**4020**	**ug/kg**	**65**	**8.0**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	3330	501	ug/kg	15 a		SW846 8270C
	ND	3330	652	ug/kg	20	26	SW846 8270C
2,4-Dichlorophenol	ND	3330	1610	ug/kg	48		SW846 8270C
	ND	3330	1870	ug/kg	56	15	SW846 8270C
Diethyl phthalate	ND	3330	2280	ug/kg	68		SW846 8270C
	ND	3330	2340	ug/kg	70	2.6	SW846 8270C
2,4-Dimethylphenol	ND	3330	1600	ug/kg	48		SW846 8270C
	ND	3330	1920	ug/kg	58	18	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dimethyl phthalate	ND	3330	2300	ug/kg	69		SW846 8270C
	ND	3330	2390	ug/kg	72	3.8	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	3330		ug/kg	7.3 a		SW846 8270C
	ND	3330		ug/kg	8.2 a	11	SW846 8270C
2,4-Dinitrophenol	ND	3330	2020	ug/kg	61		SW846 8270C
	ND	3330	2020	ug/kg	61	0.0	SW846 8270C
2,4-Dinitrotoluene	**ND**	**3330**	**1400**	**ug/kg**	**42 a**		**SW846 8270C**
	ND	**3330**	**1720**	**ug/kg**	**52**	**21**	**SW846 8270C**
2,6-Dinitrotoluene	ND	3330	2140	ug/kg	64		SW846 8270C
	ND	3330	2200	ug/kg	66	2.8	SW846 8270C
Di-n-octyl phthalate	ND	3330	1740	ug/kg	52 a		SW846 8270C
	ND	3330	1890	ug/kg	57	8.3	SW846 8270C
1,2-Diphenylhydrazine	ND	3330	816	ug/kg	25 a		SW846 8270C
	ND	3330	1010	ug/kg	30 a	21	SW846 8270C
Fluoranthene	140	3330	518	ug/kg	11 a		SW846 8270C
	140	3330	690	ug/kg	17 a	28	SW846 8270C
Fluorene	730	3330	1680	ug/kg	29 a		SW846 8270C
	730	3330	2290	ug/kg	47	31	SW846 8270C
Hexachlorobenzene	ND	3330	963	ug/kg	29 a		SW846 8270C
	ND	3330	1150	ug/kg	35 a	18	SW846 8270C
Hexachlorobutadiene	ND	3330	2160	ug/kg	65		SW846 8270C
	ND	3330	2420	ug/kg	73	11	SW846 8270C
Hexachlorocyclopentadiene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	7.1	200	SW846 8270C
	Qualifiers: a,p						
Hexachloroethane	ND	3330	3820	ug/kg	115 a		SW846 8270C
	ND	3330	4170	ug/kg	125 a	8.8	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	3330		ug/kg	0.0		SW846 8270C
	ND	3330		ug/kg	0.0	0.0	SW846 8270C
Isophorone	ND	3330	2240	ug/kg	67		SW846 8270C
	ND	3330	2460	ug/kg	74	9.4	SW846 8270C
2-Methylnaphthalene	7700	3330	10600	ug/kg	87		SW846 8270C
	7700	3330	13600	ug/kg	177 a	25	SW846 8270C
2-Methylphenol	ND	3330	2290	ug/kg	69		SW846 8270C
	ND	3330	2590	ug/kg	78	12	SW846 8270C
Naphthalene	6500	3330	9130	ug/kg	79		SW846 8270C
	6500	3330	11100	ug/kg	138 a	19	SW846 8270C
2-Nitroaniline	ND	3330	1290	ug/kg	39		SW846 8270C
	ND	3330	1590	ug/kg	48	21	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Nitroaniline	ND	3330	1410	ug/kg	42		SW846 8270C
	ND	3330	1370	ug/kg	41	2.9	SW846 8270C
4-Nitroaniline	ND	3330	1120	ug/kg	34		SW846 8270C
	ND	3330	1350	ug/kg	41	19	SW846 8270C
Nitrobenzene	ND	3330	1770	ug/kg	53		SW846 8270C
	ND	3330	2130	ug/kg	64	18	SW846 8270C
2-Nitrophenol	ND	3330	1320	ug/kg	40		SW846 8270C
	ND	3330	1540	ug/kg	46	15	SW846 8270C
4-Nitrophenol	**ND**	**3330**		**ug/kg**	**23 a**		**SW846 8270C**
	ND	**3330**	**1110**	**ug/kg**	**33 a**	**38**	**SW846 8270C**
N-Nitrosodimethylamine	ND	3330	2400	ug/kg	72		SW846 8270C
	ND	3330	2500	ug/kg	75	4.1	SW846 8270C
N-Nitrosodiphenylamine	ND	3330	2660	ug/kg	80		SW846 8270C
	ND	3330	2690	ug/kg	81	1.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**3330**	**2290**	**ug/kg**	**69**		**SW846 8270C**
	ND	**3330**	**2320**	**ug/kg**	**70**	**1.3**	**SW846 8270C**
Pentachlorophenol	**ND**	**3330**		**ug/kg**	**4.7 a**		**SW846 8270C**
	ND	**3330**		**ug/kg**	**9.8**	**70**	**SW846 8270C**
	Qualifiers: a,p						
Phenanthrene	920	3330	1720	ug/kg	24 a		SW846 8270C
	920	3330	2220	ug/kg	39	25	SW846 8270C
Phenol	**2000**	**3330**	**4520**	**ug/kg**	**76**		**SW846 8270C**
	2000	**3330**	**5160**	**ug/kg**	**95**	**13**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	ND	3330	2080	ug/kg	62		SW846 8270C
	ND	3330	2160	ug/kg	65	3.8	SW846 8270C
Pyrene	**210**	**3330**	**606**	**ug/kg**	**12 a**		**SW846 8270C**
	210	**3330**	**786**	**ug/kg**	**17 a**	**26**	**SW846 8270C**
Pyridine	ND	3330	1860	ug/kg	56		SW846 8270C
	ND	3330	1980	ug/kg	59	6.2	SW846 8270C
1,2,4-Trichloro-benzene	**2000**	**3330**	**3850**	**ug/kg**	**55**		**SW846 8270C**
	2000	**3330**	**4570**	**ug/kg**	**77**	**17**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	3330	966	ug/kg	29 a		SW846 8270C
	ND	3330	1170	ug/kg	35 a	19	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H341AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030246-001 H2H341AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4,6-Trichloro-phenol	ND	3330	947	ug/kg	28 a		SW846 8270C
	ND	3330	1060	ug/kg	32 a	11	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	37 *	(44 - 93)
	46	(44 - 93)
Phenol-d5	50	(47 - 98)
	56	(47 - 98)
Nitrobenzene-d5	54	(45 - 100)
	59	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
	55	(49 - 100)
2,4,6-Tribromophenol	9.5 *	(42 - 124)
	17 *	(42 - 124)
Terphenyl-d14	9.2 *	(54 - 121)
	14 *	(54 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Data File: /chem/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h341ac.d
Lab Smp Id: H2H341AC Client Smp ID: G-2890-R1-SPENT ACT
Inj Date : 18-APR-2006 14:29
Operator : 60841 Inst ID: md.i
Smp Info : H2H341AC,5,3,,,MS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 11:39 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MS
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	59421	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	191819	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	136033	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	225178	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	236959	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	232003	20.0000	
$ 7 2-Fluorophenol	112	3.031	3.025	(0.728)	22899	5.51067	918(R)
$ 8 Phenol-d5	99	3.865	3.859	(0.928)	37689	7.51909	1250
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	23286	5.38548	898
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	36956	4.12095	687(R)
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	2039	1.42817	238(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	10684	0.92702	154(R)
175 1,4-Dioxane	88	1.850	1.850	(0.444)	27177	19.4276	3240
13 N-Nitrosodimethylamine	74	2.055	2.050	(0.494)	28618	14.4294	2400
14 Pyridine	79	2.073	2.067	(0.498)	44161	11.1359	1860

Data File: /chem/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
15 Phenol (ccc)	94	3.877	3.871	(0.931)	143595	27.1045	4520(R)
16 Aniline	93	3.877	3.877	(0.931)	39200	6.62617	1100(R)
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	48782	13.1581	2190
18 2-Chlorophenol	128	3.994	3.988	(0.959)	40931	10.3918	1730(R)
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.990)	48288	10.7059	1780
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.003)	101413	22.2573	3710(R)
21 Benzyl alcohol	108	4.329	4.323	(1.040)	38862	14.7922	2460
22 1,2-Dichlorobenzene	146	4.376	4.370	(1.051)	772846	176.978	29500(AR)
23 2-Methylphenol	108	4.482	4.476	(1.076)	51796	13.7628	2290
24 2,2'-Oxybis(1-Chloropropane)	45	4.494	4.500	(1.079)	79188	12.4632	2080
25 4-Methylphenol	108	4.658	4.647	(1.119)	117099	29.9304	4990
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	117099	29.9304	4990
27 N-Nitroso-di-n-propylamine###	70	4.652	4.658	(1.117)	40122	13.7429	2290
28 Hexachloroethane	117	4.723	4.723	(1.134)	40659	22.9446	3820
29 Nitrobenzene	77	4.835	4.835	(0.841)	44603	10.6393	1770
30 Isophorone	82	5.140	5.146	(0.894)	104808	13.4644	2240
31 2-Nitrophenol (ccc)	139	5.264	5.263	(0.915)	15046	7.91544	1320
32 2,4-Dimethyphenol	107	5.352	5.346	(0.931)	40405	9.58353	1600
33 Bis(2-chloroethoxy)methane	93	5.463	5.469	(0.950)	61201	13.6720	2280
34 Benzoic acid	122	5.534	5.510	(0.962)	7210	3.30951	552(R)
35 2,4-Dichlorophenol (ccc)	162	5.598	5.593	(0.973)	32407	9.66173	1610
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	86317	23.1192	3850(R)
37 Naphthalene	128	5.775	5.781	(1.004)	615269	54.7766	9130(R)
38 4-Chloroaniline	127	5.898	5.898	(1.026)	35245	7.27949	1210
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	34971	12.9816	2160
40 4-Chloro-3-methylphenol (ccc)	107	6.644	6.638	(1.155)	37432	10.6318	1770(R)
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	453918	63.3062	10600(R)
43 2,4,6-Trichlorophenol (ccc)	196	7.332	7.326	(0.871)	15794	5.68179	947(R)
44 2,4,5-Trichlorphenol	196	7.414	7.402	(0.881)	17822	5.79792	966(R)
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	46737	5.71326	952(R)
46 2-Nitroaniline	65	7.831	7.831	(0.931)	20125	7.73127	1290
47 Acenaphthylene	152	8.213	8.213	(0.976)	186781	14.5480	2420
48 Dimethyl phthalate	163	8.172	8.172	(0.971)	129618	13.7718	2300
49 2,6-Dinitrotoluene	165	8.242	8.242	(0.980)	25781	12.8144	2140
50 3-Nitroaniline	138	8.413	8.413	(1.000)	20333	8.44624	1410
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	85811	11.1310	1860(R)
52 2,4-Dinitrophenol ##spcc##	184	8.548	8.536	(1.016)	567	12.1501	2020
53 Dibenzofuran	168	8.648	8.648	(1.028)	54512	4.73978	790(R)
54 4-Nitrophenol ##spcc##	109	8.712	8.683	(1.036)	6773	4.51091	752(R)
55 2,4-Dinitrotoluene	165	8.718	8.718	(1.036)	22759	8.39766	1400(R)
56 Fluorene	166	9.036	9.036	(1.074)	96884	10.1081	1680(R)
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	61683	12.9371	2160
58 Diethyl phthalate	149	9.024	9.024	(1.073)	126743	13.6823	2280
59 4-Nitroaniline	138	9.112	9.118	(1.083)	16354	6.71707	1120(R)
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	2071	1.46250	244(R)
61 N-Ndpa / diphenylamine (ccc)	169	9.188	9.194	(0.926)	94179	15.9906	2660
62 1,2-Diphenylhydrazine/azobnz	77	9.212	9.218	(0.928)	44738	4.89788	816(R)

Data File: /chem/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	35707	14.2493	2370
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	18102	5.77854	963(R)
65 Pentachlorophenol (ccc)	266	9.829	9.835	(0.991)	1912	0.94311	157(R)
66 Phenanthrene	178	9.946	9.946	(1.002)	140542	10.3509	1720(R)
67 Anthracene	178	9.982	9.982	(1.006)	54872	4.03978	673(R)
68 Carbazole	167	10.134	10.134	(1.021)	63023	4.92462	821(R)
69 Di-n-butyl phthalate	149	10.469	10.475	(1.055)	206347	14.2183	2370
70 Fluoranthene (ccc)	202	10.910	10.916	(1.099)	45577	3.10768	518(R)
71 Pyrene	202	11.080	11.080	(0.923)	55063	3.63321	606(R)
72 Butyl benzyl phthalate	149	11.580	11.586	(0.965)	77835	11.4602	1910
73 Benzo(a)Anthracene	228	11.991	11.991	(0.999)	11508	0.74176	124(R)
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	17657	3.00625	501(R)
75 Chrysene	228	12.026	12.026	(1.002)	11086	0.74623	124(R)
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	133672	15.4868	2580
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	177026	10.4366	1740

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h341ac.d
Lab Smp Id: H2H341AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2890-R1-SPENT ACT
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	59421	-4.04
2 Naphthalene-d8	196946	98473	393892	191819	-2.60
3 Acenaphthene-d10	140395	70198	280790	136033	-3.11
4 Phenanthrene-d10	245474	122737	490948	225178	-8.27
5 Chrysene-d12	253631	126816	507262	236959	-6.57
6 Perylene-d12	225613	112806	451226	232003	2.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: SOLID
Lab Smp Id: H2H341AC
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2890-R1-SPENT ACT
Operator: 60841
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	3330	2400	72.15	35-150
14 Pyridine	3330	1860	55.68	35-150
15 Phenol (ccc)	3330	4520	135.52*	59-117
16 Aniline	3330	1100	33.13*	35-150
17 Bis(2-chloroethyl)	3330	2190	65.79	35-150
18 2-Chlorophenol	3330	1730	51.96*	63-114
19 1,3-Dichlorobenzen	3330	1780	53.53	35-150
20 1,4-Dichlorobenzen	3330	3710	111.29*	65-111
21 Benzyl alcohol	3330	2460	73.96	35-150
22 1,2-Dichlorobenzen	3330	29500	884.89*	35-150
23 2-Methylphenol	3330	2290	68.81	35-150
24 2,2'-Oxybis(1-Chlo	3330	2080	62.32	35-150
25 4-Methylphenol	6670	4990	74.83	35-150
26 3&4 Methylphenol	6670	4990	74.83	35-150
27 N-Nitroso-di-n-pro	3330	2290	68.71	62-114
28 Hexachloroethane	3330	3820	114.72	35-150
29 Nitrobenzene	3330	1770	53.20	35-150
30 Isophorone	3330	2240	67.32	35-150
31 2-Nitrophenol (ccc	3330	1320	39.58	35-150
32 2,4-Dimethyphenol	3330	1600	47.92	35-150
33 Bis(2-chloroethoxy	3330	2280	68.36	35-150
34 Benzoic acid	3330	552	16.55*	35-150
35 2,4-Dichlorophenol	3330	1610	48.31	35-150
36 1,2,4-Trichloroben	3330	3850	115.60*	66-113
37 Naphthalene	3330	9130	273.88*	60-100
38 4-Chloroaniline	3330	1210	36.40	35-150
39 Hexachlorobutadien	3330	2160	64.91	35-150
40 4-Chloro-3-methylp	3330	1770	53.16*	71-118
41 2-Methylnaphthalen	3330	10600	316.53*	35-150
42 Hexachlorocyclope	3330	0.00	*	35-150
43 2,4,6-Trichlorophe	3330	947	28.41*	35-150
44 2,4,5-Trichlorphen	3330	966	28.99*	35-150
45 2-Chloronaphthalen	3330	952	28.57*	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
46 2-Nitroaniline	3330	1290	38.66	35-150
47 Acenaphthylene	3330	2420	72.74	60-106
48 Dimethyl phthalate	3330	2300	68.86	35-150
49 2,6-Dinitrotoluene	3330	2140	64.07	35-150
50 3-Nitroaniline	3330	1410	42.23	35-150
51 Acenaphthene (ccc)	3330	1860	55.65*	65-107
52 2,4-Dinitrophenol	3330	2020	60.75	35-150
53 Dibenzofuran	3330	790	23.70*	35-150
54 4-Nitrophenol ##sp	3330	752	22.55*	61-128
55 2,4-Dinitrotoluene	3330	1400	41.99*	72-131
56 Fluorene	3330	1680	50.54*	60-113
57 4-Chlorophenyl phe	3330	2160	64.69	35-150
58 Diethyl phthalate	3330	2280	68.41	35-150
59 4-Nitroaniline	3330	1120	33.59*	35-150
60 4,6-Dinitro-2-meth	3330	244	7.31*	35-150
61 N-Ndpa / diphenyla	3330	2660	79.95	35-150
62 1,2-Diphenylhydraz	3330	816	24.49*	35-150
63 4-Bromophenyl phen	3330	2370	71.25	35-150
64 Hexachlorobenzene	3330	963	28.89*	35-150
65 Pentachlorophenol	3330	157	4.72*	71-122
66 Phenanthrene	3330	1720	51.75*	65-108
67 Anthracene	3330	673	20.20*	67-114
68 Carbazole	3330	821	24.62*	35-150
69 Di-n-butyl phthala	3330	2370	71.09	35-150
70 Fluoranthene (ccc)	3330	518	15.54*	65-115
71 Pyrene	3330	606	18.17*	67-114
72 Butyl benzyl phtha	3330	1910	57.30	35-150
73 Benzo(a)Anthracene	3330	124	3.71*	70-114
74 3,3'-Dichlorobenzi	3330	501	15.03*	35-150
75 Chrysene	3330	124	3.73*	68-111
76 Bis(2-ethylhexyl)	3330	2580	77.43	35-150
77 Di-n-octyl phthala	3330	1740	52.18	35-150
78 Benzo(b)fluoranth	3330	0.00	*	60-120
79 Benzo(k)fluoranth	3330	0.00	*	61-119
80 Benzo(a)pyrene (c	3330	0.00	*	67-111
81 Indeno(1,2,3-cd)p	3330	0.00	*	67-120
82 Dibenz(a,h)anthra	3330	0.00	*	71-120
83 Benzo(g,h,i)peryl	3330	0.00	*	63-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	918	36.74*	44-93
$ 8 Phenol-d5	2500	1250	50.13	47-98

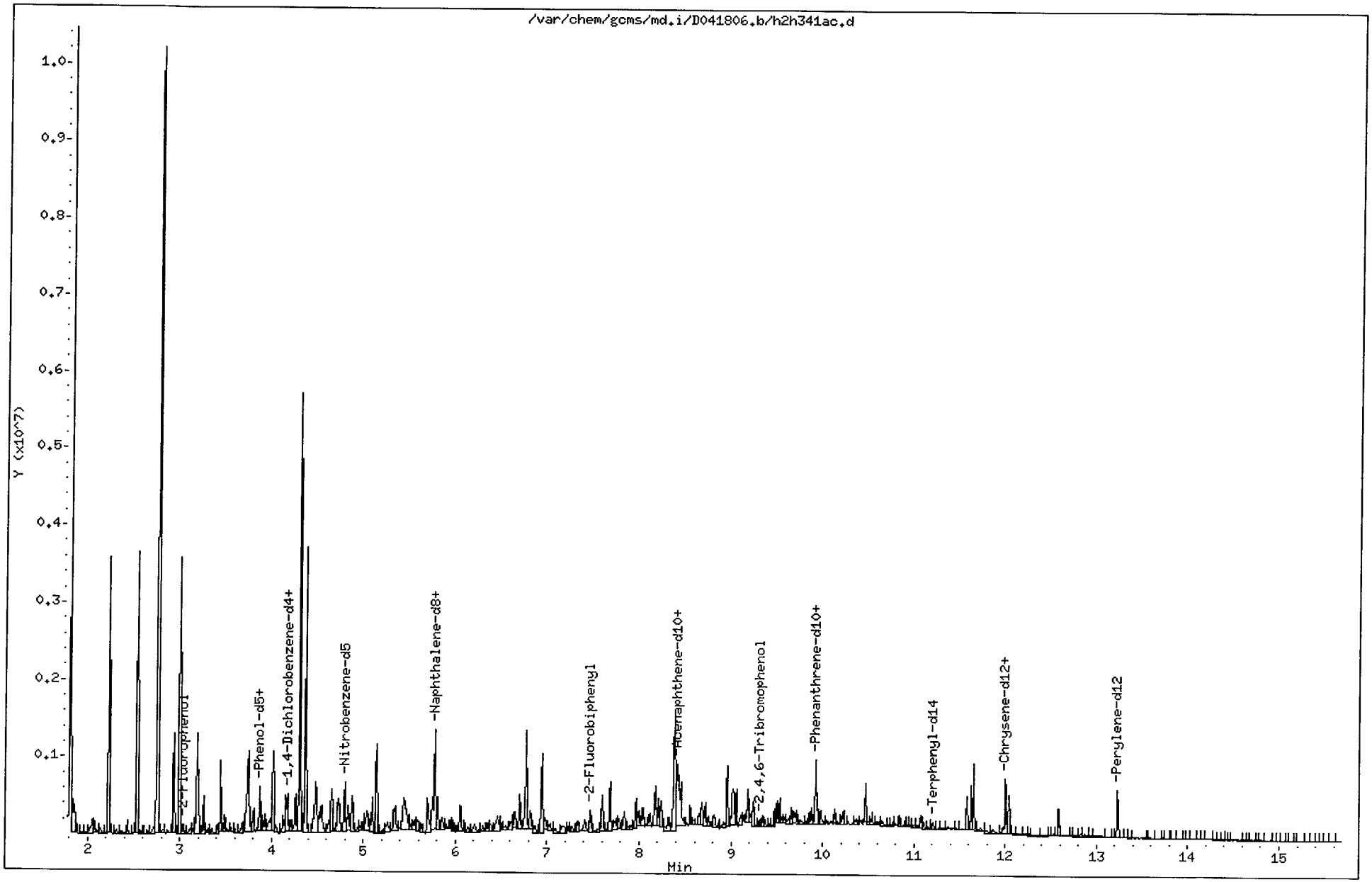
Data File: /chem/gcms/md.i/D041806.b/h2h341ac.d
Report Date: 18-Apr-2006 14:45

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	1670	898	53.85	45-100
$ 10 2-Fluorobiphenyl	1670	687	41.21*	49-100
$ 11 2,4,6-Tribromophen	2500	238	9.52*	44-124
$ 12 Terphenyl-d14	1670	154	9.27*	54-121

Data File: /var/chem/gcms/md.i/D041806.b/h2h341ac.d
Date : 18-APR-2006 14:29
Client ID: G-2890-R1-SPENT ACT
Sample Info: H2H341AC,5,3,,,MS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h341ad.d
Lab Smp Id: H2H341AD Client Smp ID: G-2890-R1-SPENT ACT
Inj Date : 18-APR-2006 14:52
Operator : 60841 Inst ID: md.i
Smp Info : H2H341AD,5,3,,,MSD,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 11:39 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt/Ws * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

04 2006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	61338	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	192542	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	138105	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	235232	20.0000	
* 5 Chrysene-d12	240	12.003	12.009	(1.000)	236686	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	233563	20.0000	
$ 7 2-Fluorophenol	112	3.037	3.025	(0.729)	29267	6.82296	1140
$ 8 Phenol-d5	99	3.865	3.859	(0.928)	43123	8.33421	1390
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	25697	5.92087	987
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	50191	5.51278	919
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	3824	2.56385	427(R)
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	15942	1.38485	231(R)
175 1,4-Dioxane	88	1.850	1.850	(0.444)	25987	17.9962	3000
13 N-Nitrosodimethylamine	74	2.055	2.050	(0.494)	30754	15.0221	2500
14 Pyridine	79	2.073	2.067	(0.498)	48741	11.9067	1980

Data File: /chem/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
15 Phenol (ccc)	94	3.877	3.871	(0.931)	169149	30.9299	5150(R)
16 Aniline	93	3.877	3.877	(0.931)	44212	7.23965	1210
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	51449	13.4437	2240
18 2-Chlorophenol	128	3.994	3.988	(0.959)	45502	11.1913	1860(R)
19 1,3-Dichlorobenzene	146	4.129	4.124	(0.992)	53673	11.5278	1920
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.003)	113534	24.1384	4020(R)
21 Benzyl alcohol	108	4.329	4.323	(1.040)	42414	15.6396	2610
22 1,2-Dichlorobenzene	146	4.376	4.370	(1.051)	868339	192.630	32100(AR)
23 2-Methylphenol	108	4.482	4.476	(1.076)	60456	15.5616	2590
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	84837	12.9349	2160
25 4-Methylphenol	108	4.658	4.647	(1.119)	132613	32.8362	5470
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	132613	32.8362	5470
27 N-Nitroso-di-n-propylamine###	70	4.652	4.658	(1.117)	41962	13.9241	2320
28 Hexachloroethane	117	4.723	4.723	(1.134)	45807	25.0414	4170
29 Nitrobenzene	77	4.834	4.835	(0.841)	53791	12.7829	2130
30 Isophorone	82	5.140	5.146	(0.894)	115328	14.7603	2460
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	17630	9.23983	1540
32 2,4-Dimethyphenol	107	5.352	5.346	(0.931)	48770	11.5243	1920
33 Bis(2-chloroethoxy)methane	93	5.463	5.469	(0.950)	67664	15.0592	2510
34 Benzoic acid	122	5.534	5.510	(0.962)	8887	4.06386	677(R)
35 2,4-Dichlorophenol (ccc)	162	5.604	5.593	(0.974)	37783	11.2221	1870
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	102840	27.4413	4570(R)
37 Naphthalene	128	5.780	5.781	(1.005)	749704	66.4948	11100(R)
38 4-Chloroaniline	127	5.898	5.898	(1.026)	41688	8.57794	1430
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	39267	14.5214	2420
40 4-Chloro-3-methylphenol (ccc)	107	6.644	6.638	(1.155)	44011	12.4534	2080(R)
41 2-Methylnaphthalene	142	6.779	6.773	(1.179)	585259	81.3176	13600(R)
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.853)	4388	1.41569	236(R)
43 2,4,6-Trichlorophenol (ccc)	196	7.332	7.326	(0.871)	18021	6.38598	1060(R)
44 2,4,5-Trichlorphenol	196	7.414	7.402	(0.881)	21905	7.01930	1170
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	61318	7.38326	1230
46 2-Nitroaniline	65	7.831	7.831	(0.931)	25201	9.53598	1590
47 Acenaphthylene	152	8.207	8.213	(0.976)	252247	19.3523	3220
48 Dimethyl phthalate	163	8.172	8.172	(0.971)	137175	14.3560	2390
49 2,6-Dinitrotoluene	165	8.242	8.242	(0.980)	26958	13.1985	2200
50 3-Nitroaniline	138	8.413	8.413	(1.000)	20064	8.20929	1370
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	107126	13.6873	2280
52 2,4-Dinitrophenol ##spcc##	184	8.542	8.536	(1.015)	581	12.1544	2020
53 Dibenzofuran	168	8.648	8.648	(1.028)	75090	6.43108	1070(R)
54 4-Nitrophenol ##spcc##	109	8.706	8.683	(1.035)	10130	6.64552	1110(R)
55 2,4-Dinitrotoluene	165	8.718	8.718	(1.036)	28338	10.2991	1720(R)
56 Fluorene	166	9.036	9.036	(1.074)	133901	13.7606	2290
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	70932	14.6539	2440
58 Diethyl phthalate	149	9.018	9.024	(1.072)	131875	14.0227	2340
59 4-Nitroaniline	138	9.112	9.118	(1.083)	20068	8.11901	1350
60 4,6-Dinitro-2-methylphenol	198	9.153	9.159	(0.922)	2419	1.63459	272(R)
61 N-Ndpa / diphenylamine (ccc)	169	9.188	9.194	(0.926)	99389	16.1541	2690

Data File: /chem/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/Kg)
62 1,2-Diphenylhydrazine/azobnz	77	9.212	9.218	(0.928)	57825	6.06010	1010(R)
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	38419	14.6764	2450
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	22629	6.91460	1150(R)
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	4133	1.95093	325(R)
66 Phenanthrene	178	9.946	9.946	(1.002)	188573	13.2948	2220
67 Anthracene	178	9.981	9.982	(1.006)	77398	5.45461	909(R)
68 Carbazole	167	10.134	10.134	(1.021)	87825	6.56935	1090(R)
69 Di-n-butyl phthalate	149	10.469	10.475	(1.055)	224310	14.7954	2460
70 Fluoranthene (ccc)	202	10.910	10.916	(1.099)	63467	4.14257	690(R)
71 Pyrene	202	11.080	11.080	(0.923)	71440	4.71923	786(R)
72 Butyl benzyl phthalate	149	11.580	11.586	(0.965)	85360	12.5827	2100
73 Benzo(a)Anthracene	228	11.991	11.991	(0.999)	14815	0.95600	159(R)
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	22967	3.91486	652(R)
75 Chrysene	228	12.026	12.026	(1.002)	15116	1.01869	170(R)
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	143580	16.6539	2780
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	193483	11.3306	1890
78 Benzo(b)fluoranthene	252	12.925	12.931	(0.977)	9730	0.54212	90.4(R)
79 Benzo(k)fluoranthene	252	12.925	12.949	(0.977)	9730	0.53089	88.5(R) 2
80 Benzo(a)pyrene (ccc)	252	12.925	13.190	(0.977)	9730	0.65050	108(R)

QC Flag Legend

KRM 4/18/06

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h341ad.d
Lab Smp Id: H2H341AD
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2890-R1-SPENT ACT
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	61338	-0.95
2 Naphthalene-d8	196946	98473	393892	192542	-2.24
3 Acenaphthene-d10	140395	70198	280790	138105	-1.63
4 Phenanthrene-d10	245474	122737	490948	235232	-4.17
5 Chrysene-d12	253631	126816	507262	236686	-6.68
6 Perylene-d12	225613	112806	451226	233563	3.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.00	-0.05
6 Perylene-d12	13.23	12.73	13.73	13.23	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/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: H2H341AD
Client Smp ID: G-2890-R1-SPENT ACT
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: MSD
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	3330	2500	75.11	35-150
14 Pyridine	3330	1980	59.53	35-150
15 Phenol (ccc)	3330	5150	154.65*	59-117
16 Aniline	3330	1210	36.20	35-150
17 Bis(2-chloroethyl)	3330	2240	67.22	35-150
18 2-Chlorophenol	3330	1860	55.96*	63-114
19 1,3-Dichlorobenzen	3330	1920	57.64	35-150
20 1,4-Dichlorobenzen	3330	4020	120.69*	65-111
21 Benzyl alcohol	3330	2610	78.20	35-150
22 1,2-Dichlorobenzen	3330	32100	963.15*	35-150
23 2-Methylphenol	3330	2590	77.81	35-150
24 2,2'-Oxybis(1-Chlo	3330	2160	64.67	35-150
25 4-Methylphenol	6670	5470	82.09	35-150
26 3&4 Methylphenol	6670	5470	82.09	35-150
27 N-Nitroso-di-n-pro	3330	2320	69.62	62-114
28 Hexachloroethane	3330	4170	125.21	35-150
29 Nitrobenzene	3330	2130	63.91	35-150
30 Isophorone	3330	2460	73.80	35-150
31 2-Nitrophenol (ccc	3330	1540	46.20	35-150
32 2,4-Dimethyphenol	3330	1920	57.62	35-150
33 Bis(2-chloroethoxy	3330	2510	75.30	35-150
34 Benzoic acid	3330	677	20.32*	35-150
35 2,4-Dichlorophenol	3330	1870	56.11	35-150
36 1,2,4-Trichloroben	3330	4570	137.21*	66-113
37 Naphthalene	3330	11100	332.47*	60-100
38 4-Chloroaniline	3330	1430	42.89	35-150
39 Hexachlorobutadien	3330	2420	72.61	35-150
40 4-Chloro-3-methylp	3330	2080	62.27*	71-118
41 2-Methylnaphthalen	3330	13600	406.59*	35-150
42 Hexachlorocyclopen	3330	236	7.08*	35-150
43 2,4,6-Trichlorophe	3330	1060	31.93*	35-150
44 2,4,5-Trichlorphen	3330	1170	35.10	35-150
45 2-Chloronaphthalen	3330	1230	36.92	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
46 2-Nitroaniline	3330	1590	47.68	35-150
47 Acenaphthylene	3330	3220	96.76	60-106
48 Dimethyl phthalate	3330	2390	71.78	35-150
49 2,6-Dinitrotoluene	3330	2200	65.99	35-150
50 3-Nitroaniline	3330	1370	41.05	35-150
51 Acenaphthene (ccc)	3330	2280	68.44	65-107
52 2,4-Dinitrophenol	3330	2020	60.77	35-150
53 Dibenzofuran	3330	1070	32.16*	35-150
54 4-Nitrophenol ##sp	3330	1110	33.23*	61-128
55 2,4-Dinitrotoluene	3330	1720	51.50*	72-131
56 Fluorene	3330	2290	68.80	60-113
57 4-Chlorophenyl phe	3330	2440	73.27	35-150
58 Diethyl phthalate	3330	2340	70.11	35-150
59 4-Nitroaniline	3330	1350	40.60	35-150
60 4,6-Dinitro-2-meth	3330	272	8.17*	35-150
61 N-Ndpa / diphenyla	3330	2690	80.77	35-150
62 1,2-Diphenylhydraz	3330	1010	30.30*	35-150
63 4-Bromophenyl phen	3330	2450	73.38	35-150
64 Hexachlorobenzene	3330	1150	34.57*	35-150
65 Pentachlorophenol	3330	325	9.75*	71-122
66 Phenanthrene	3330	2220	66.47	65-108
67 Anthracene	3330	909	27.27*	67-114
68 Carbazole	3330	1090	32.85*	35-150
69 Di-n-butyl phthala	3330	2460	73.98	35-150
70 Fluoranthene (ccc)	3330	690	20.71*	65-115
71 Pyrene	3330	786	23.60*	67-114
72 Butyl benzyl phtha	3330	2100	62.91	35-150
73 Benzo(a)Anthracene	3330	159	4.78*	70-114
74 3,3'-Dichlorobenzi	3330	652	19.57*	35-150
75 Chrysene	3330	170	5.09*	68-111
76 Bis(2-ethylhexyl)	3330	2780	83.27	35-150
77 Di-n-octyl phthala	3330	1890	56.65	35-150
78 Benzo(b)fluoranthe	3330	90.4	2.71*	60-120
79 Benzo(k)fluoranthe	3330	88.5	2.65*	61-119
80 Benzo(a)pyrene (cc	3330	108	3.25*	67-111
81 Indeno(1,2,3-cd)p	3330	0.00	*	67-120
82 Dibenz(a,h)anthra	3330	0.00	*	71-120
83 Benzo(g,h,i)peryl	3330	0.00	*	63-120

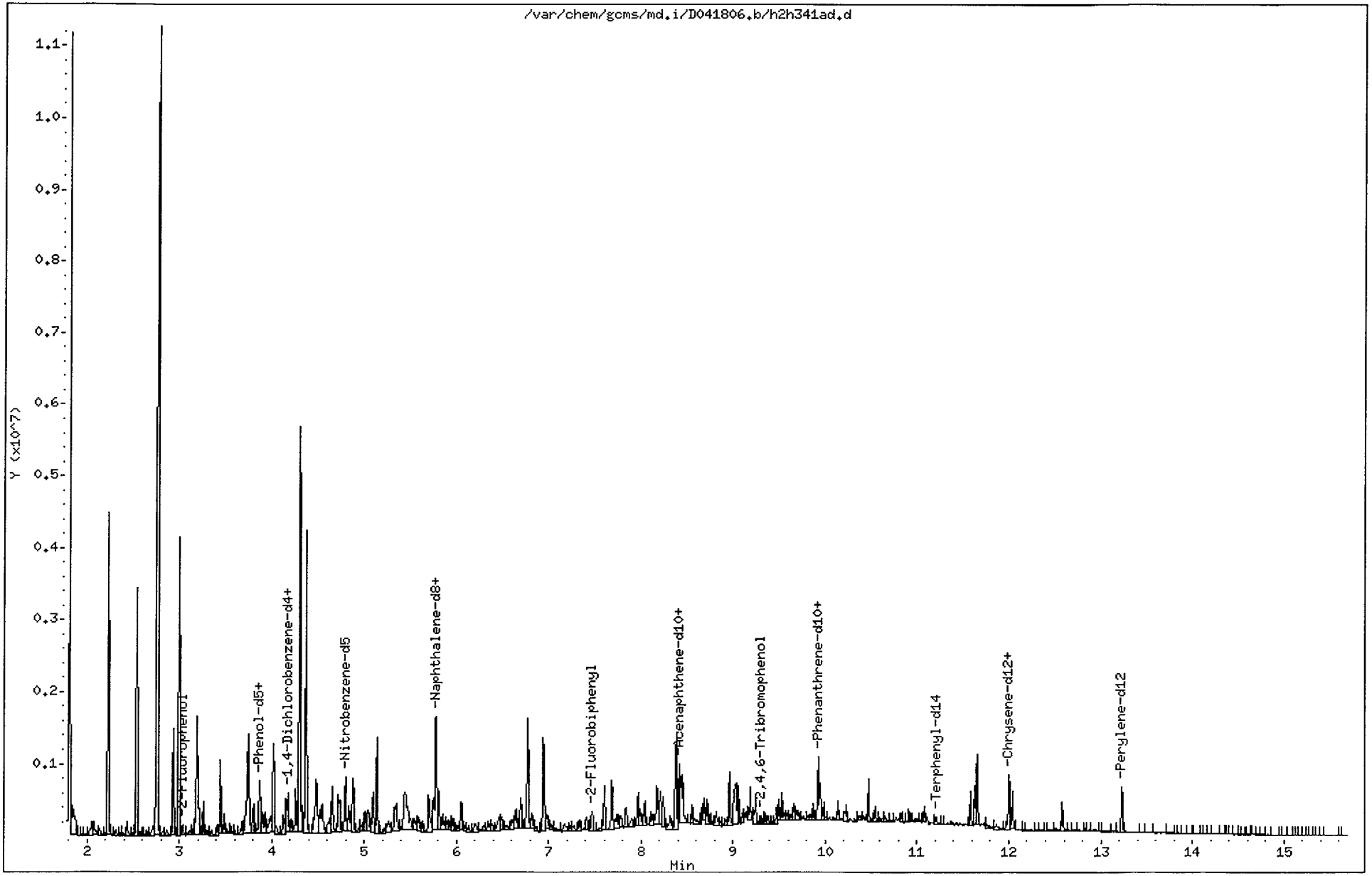
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	2500	1140	45.49	44-93
$ 8 Phenol-d5	2500	1390	55.56	47-98

Data File: /chem/gcms/md.i/D041806.b/h2h341ad.d
Report Date: 18-Apr-2006 15:09

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	1670	987	59.21	45-100
$ 10 2-Fluorobiphenyl	1670	919	55.13	49-100
$ 11 2,4,6-Tribromophen	2500	427	17.09*	44-124
$ 12 Terphenyl-d14	1670	231	13.85*	54-121

Data File: /var/chem/gcms/md.i/D041806.b/h2h341ad.d
Date : 18-APR-2006 14:52
Client ID: G-2890-R1-SPENT ACT
Sample Info: H2H341AD,5,3,,,MSD,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AA **Matrix.....:** WATER
MB Lot-Sample #: H6D040000-076

Prep Date.....: 04/04/06
Analysis Date..: 04/18/06 **Prep Batch #...:** 6094076
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Benz(a)anthracene	ND	10	ug/L	SW846 8270C
Benzidine	ND	100	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzoic acid	ND	50	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
1,2-Diphenylhydrazine	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(36 - 98)
Phenol-d5	67	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	83	(56 - 118)
2,4,6-Tribromophenol	77	(55 - 134)
Terphenyl-d14	95	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL Knoxville - ACS

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: H6D040000-076 B **Work Order #:** H2H9X1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Report Date: 19-Apr-2006 13:53

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Lab Smp Id: H2H9X1AA — Client Smp ID: INTRA-LAB BLANK
Inj Date : 18-APR-2006 15:16
Operator : 60841 — Inst ID: md.i
Smp Info : H2H9X1AA,,3,,,BLK,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 13:52 mcgeek — Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 — Cal File: a9dc098.d
Als bottle: 13 — QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: westates.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)

Cpnd Variable — Local Compound Variable

04/20/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	38428	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	116057	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	83007	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	140471	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	143777	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	139323	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	126981	47.2518	47.2
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	162434	50.1092	50.1
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	99198	37.9184	37.9
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	227626	41.5964	41.6
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	51757	58.1072	58.1
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	332125	47.4931	47.5
63 4-Bromophenyl phenyl ether	248	9.306	9.535	(0.938)	2197	1.40582	~~1.40~~
84 Benzidine	184	11.204	11.016	(1.129)	3931	0.68287	~~0.683~~

KRM 4/19/06

Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Report Date: 19-Apr-2006 13:53

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h9x1aa.d
Lab Smp Id: H2H9X1AA
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	38428	-37.94
2 Naphthalene-d8	196946	98473	393892	116057	-41.07
3 Acenaphthene-d10	140395	70198	280790	83007	-40.88
4 Phenanthrene-d10	245474	122737	490948	140471	-42.78
5 Chrysene-d12	253631	126816	507262	143777	-43.31
6 Perylene-d12	225613	112806	451226	139323	-38.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Report Date: 19-Apr-2006 13:53

STL Knoxville

RECOVERY REPORT

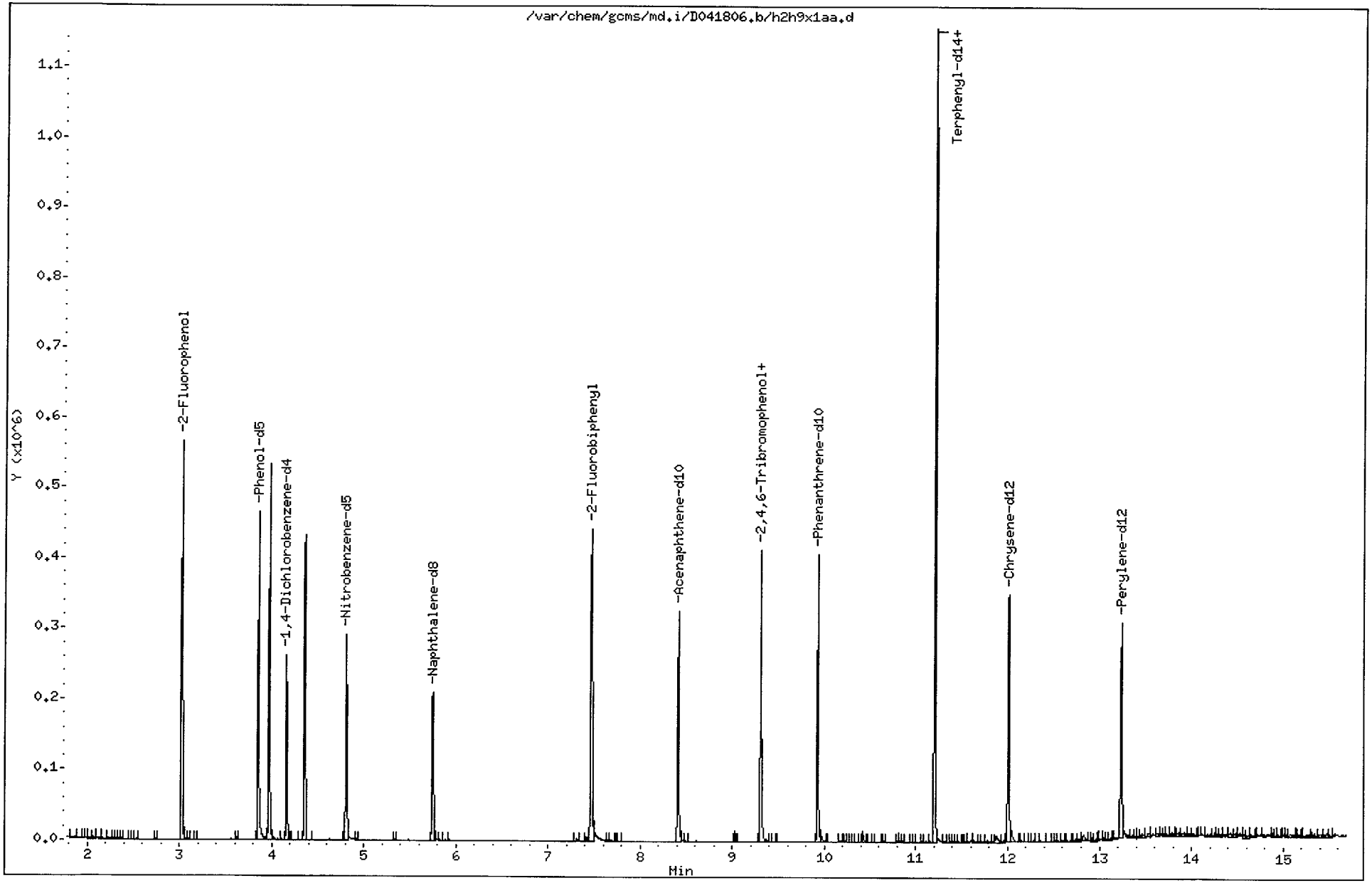
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: H2H9X1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: westates.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,westates.sub

Client SDG: H6D040000
Fraction: SV
Client Smp ID: INTRA-LAB BLANK
Operator: 60841
SampleType: METHOD BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	75.0	47.2	63.00	36-98
$ 8 Phenol-d5	75.0	50.1	66.81	49-109
$ 9 Nitrobenzene-d5	50.0	37.9	75.84	57-120
$ 10 2-Fluorobiphenyl	50.0	41.6	83.19	56-118
$ 11 2,4,6-Tribromophen	75.0	58.1	77.48	55-134
$ 12 Terphenyl-d14	50.0	47.5	94.99	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Date : 18-APR-2006 15:16
Client ID: INTRA-LAB BLANK
Sample Info: H2H9X1AA,,3,,,BLK,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d

Date : 18-APR-2006 15:16

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9X1AA,,3,,,BLK,

Volume Injected (uL): 1.0

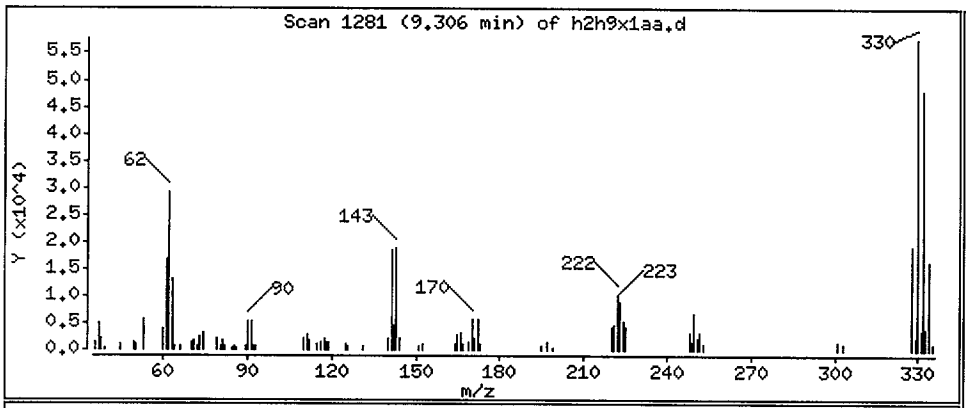
Operator: 60841

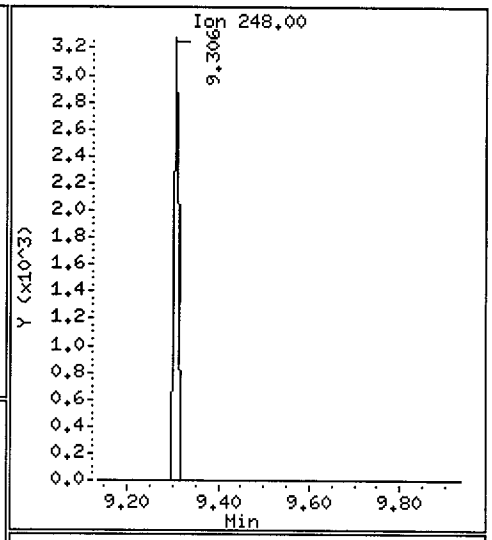
Column phase: ZB-5

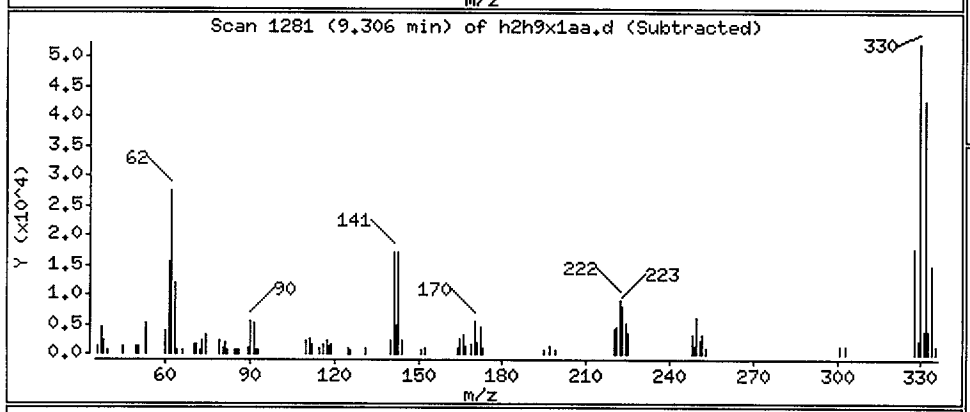
Column diameter: 0.25

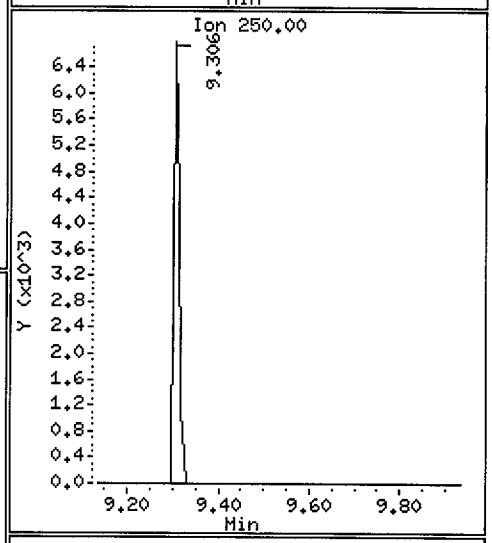
63 4-Bromophenyl phenyl ether

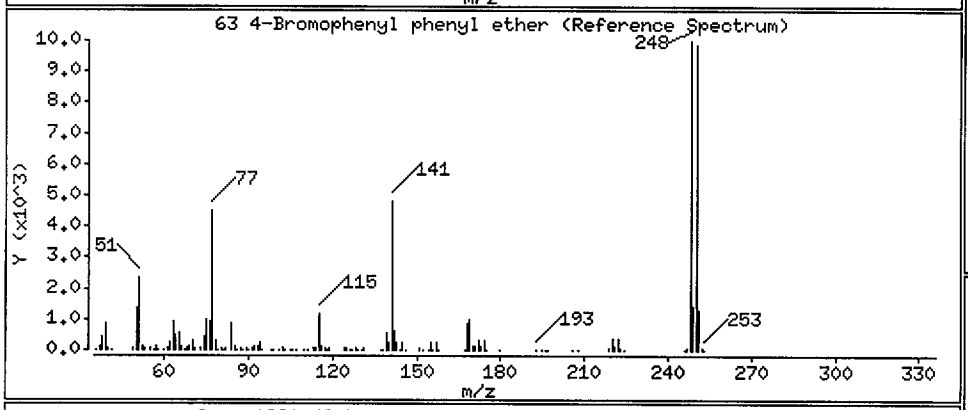
Concentration: 1.40 ug/L

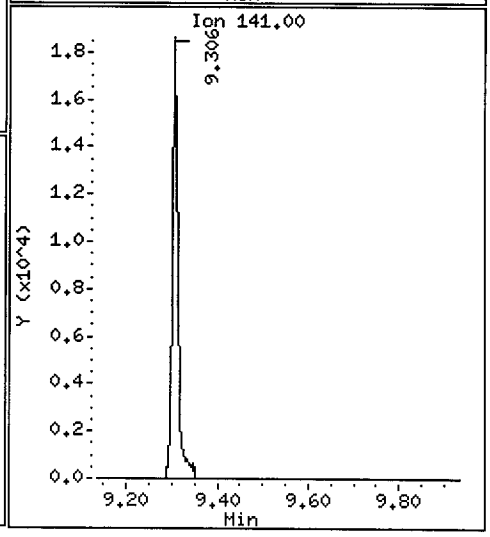


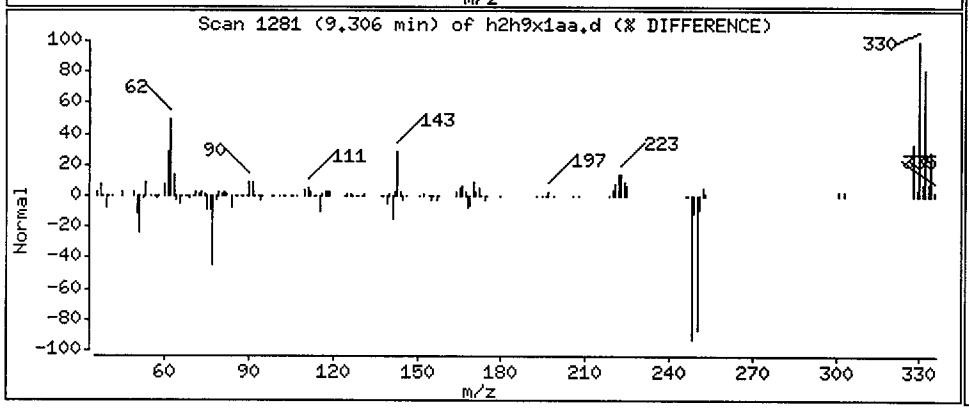












Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d

Date : 18-APR-2006 15:16

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: H2H9X1AA,,3,,,BLK,

Volume Injected (uL): 1.0

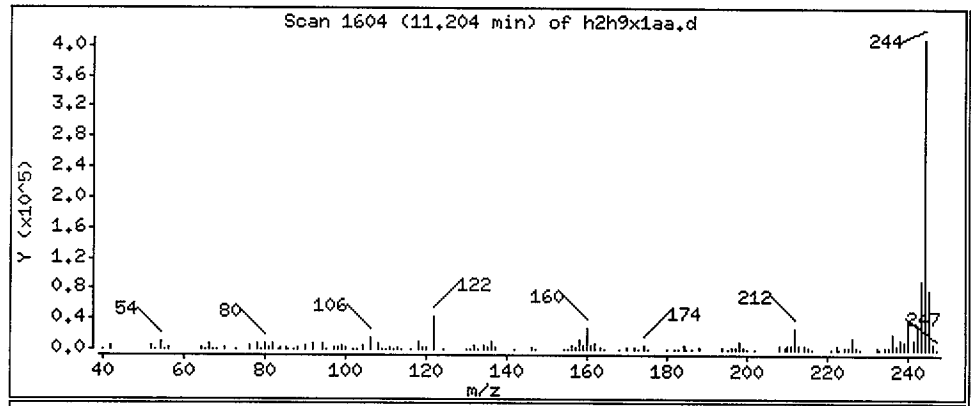
Operator: 60841

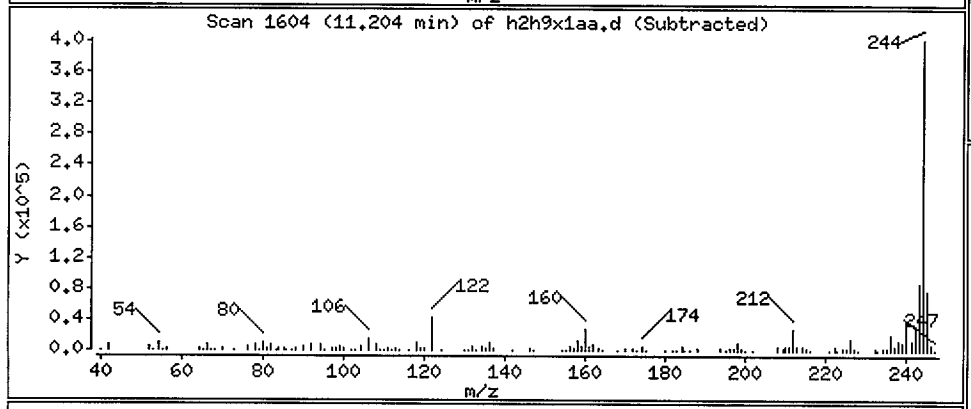
Column phase: ZB-5

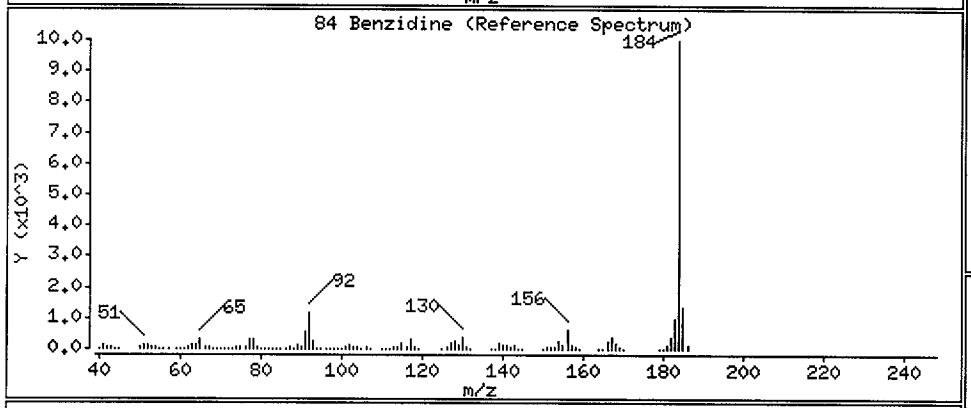
Column diameter: 0.25

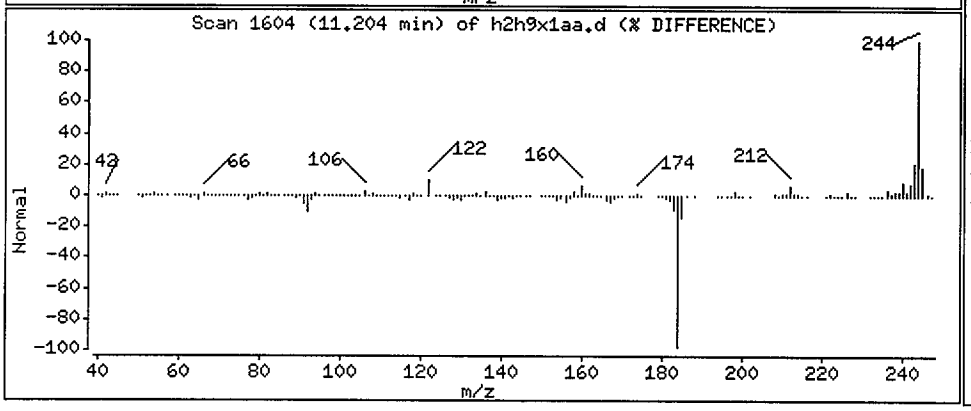
84 Benzidine

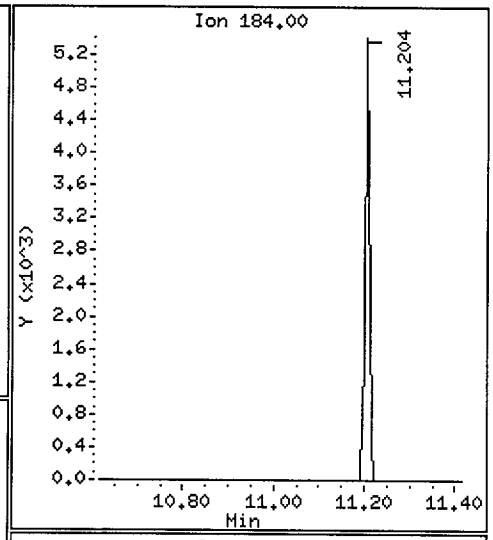
Concentration: 0.683 ug/L

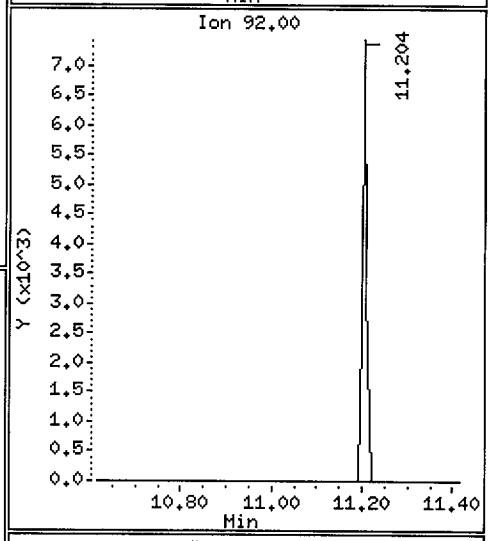


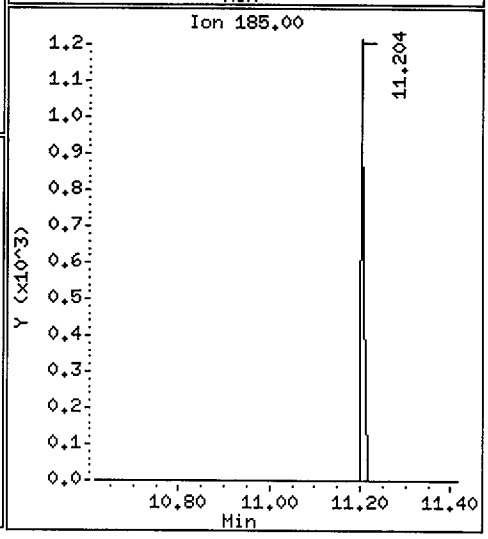












Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Report Date: 19-Apr-2006 15:31

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d
Lab Smp Id: H2H9X1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 18-APR-2006 15:16
Operator : 60841 Inst ID: md.i
Smp Info : H2H9X1AA,,3,,,BLK,
Misc Info : D041806,8270a9,westates.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 19-Apr-2006 15:03 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 13 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: westates.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 1,4-Dichlorobenzene-d4	4.159	261738	20.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ng/uL)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
5-Aminoindole				CAS #: 5192-03-0			
3.971	532687	40.7038336	40.7	22	NIST05.1	14029	1
1,4-Dichlorobenzene-D4				CAS #: 3855-82-1			
4.359	433185	33.1006579	33.1	96	NIST05.1	23150	1

Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d

Date : 18-APR-2006 15:16

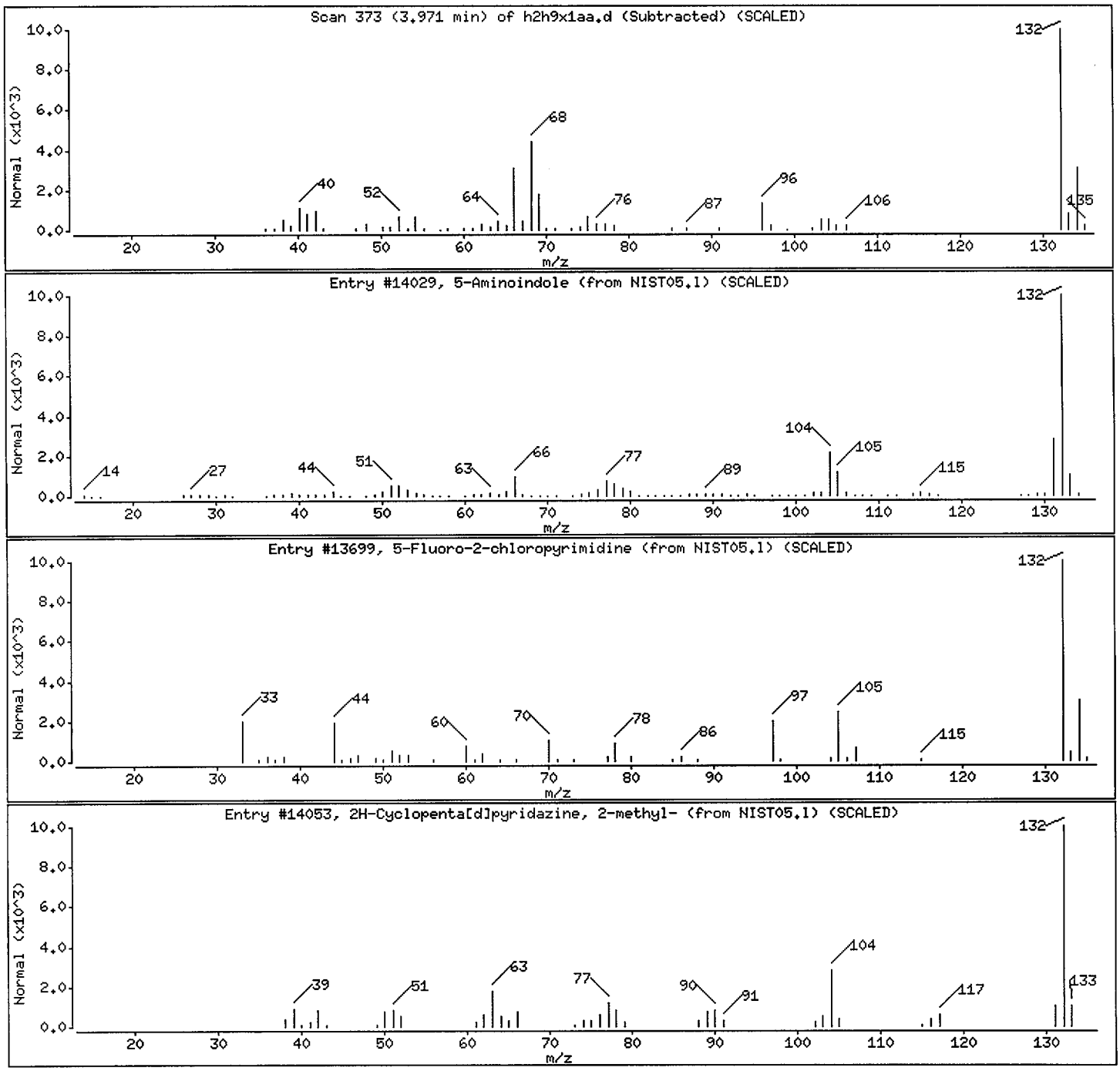
Client ID: INTRA-LAB BLANK | Instrument: md.i

Sample Info: H2H9X1AA,,3,,,BLK,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Aminoindole	5192-03-0	NIST05.1	14029	22	C8H8N2	132
5-Fluoro-2-chloropyrimidine	62802-42-0	NIST05.1	13699	12	C4H2ClFN2	132
2H-Cyclopenta[d]pyridazine, 2-methyl-	22291-85-6	NIST05.1	14053	12	C8H8N2	132



Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1aa.d

Date : 18-APR-2006 15:16

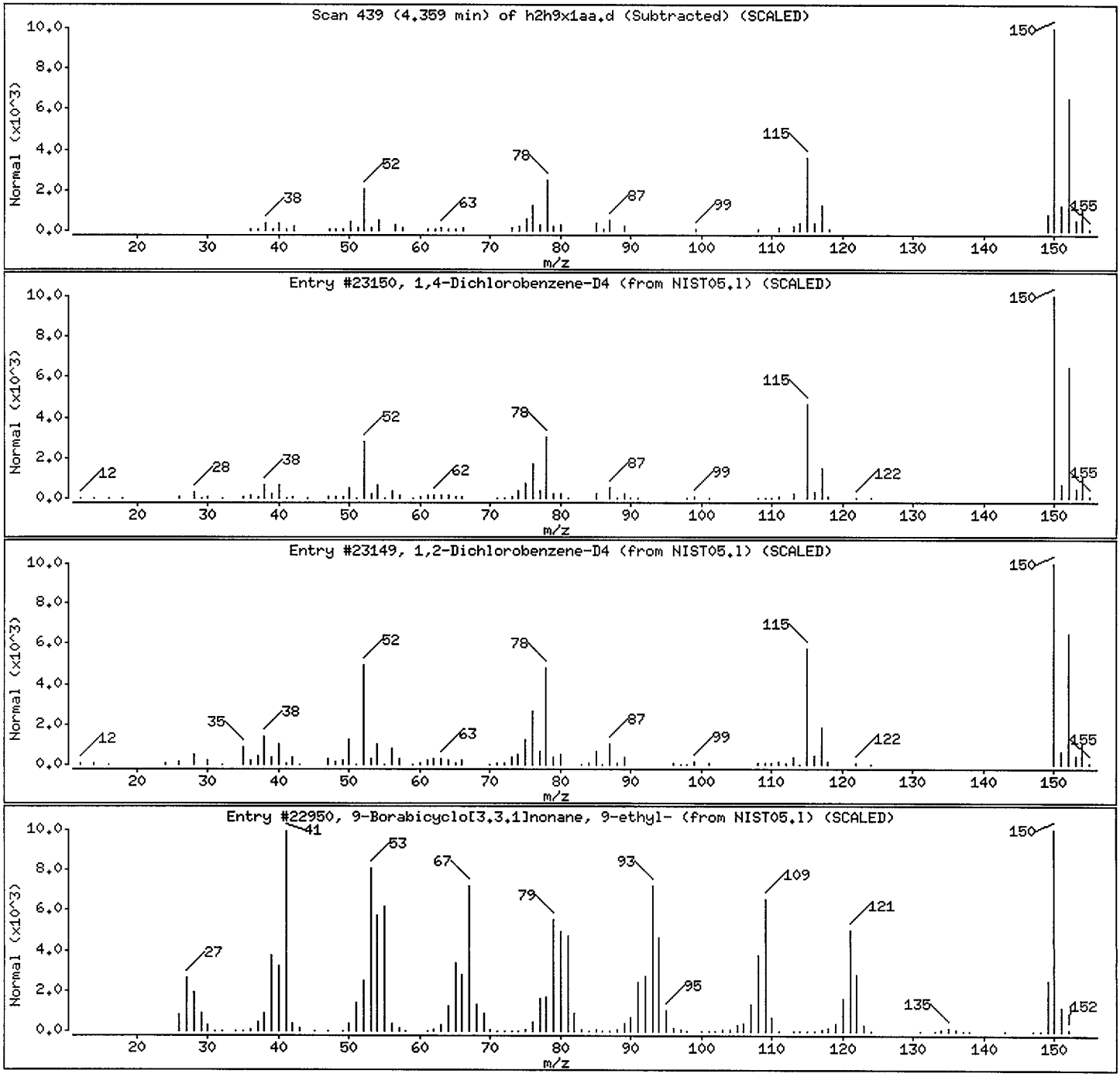
Client ID: INTRA-LAB BLANK | Instrument: md.i

Sample Info: H2H9X1AA,,3,,,BLK,

Volume Injected (uL): 1.0 | Operator: 60841

Column phase: ZB-5 | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Dichlorobenzene-D4	3855-82-1	NIST05.1	23150	96	C6D4Cl2	150
1,2-Dichlorobenzene-D4	2199-69-1	NIST05.1	23149	96	C6D4Cl2	150
9-Borabicyclo[3.3.1]nonane, 9-ethyl-	52102-17-7	NIST05.1	22950	43	C10H19B	150



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**83**	**(65 - 107)**	**SW846 8270C**
Acenaphthylene	82	(63 - 108)	SW846 8270C
Aniline	60	(34 - 105)	SW846 8270C
Anthracene	85	(65 - 115)	SW846 8270C
Benz(a)anthracene	89	(70 - 114)	SW846 8270C
Benzo(b)fluoranthene	73	(58 - 127)	SW846 8270C
Benzo(k)fluoranthene	93	(62 - 121)	SW846 8270C
Benzoic acid	53	(20 - 125)	SW846 8270C
Benzo(ghi)perylene	80	(65 - 120)	SW846 8270C
Benzo(a)pyrene	83	(67 - 112)	SW846 8270C
Benzyl alcohol	77	(69 - 119)	SW846 8270C
bis(2-Chloroethoxy) methane	73	(64 - 107)	SW846 8270C
bis(2-Chloroethyl)-ether	72	(65 - 111)	SW846 8270C
bis(2-Ethylhexyl) phthalate	81	(74 - 127)	SW846 8270C
4-Bromophenyl phenyl ether	98	(79 - 133)	SW846 8270C
Butyl benzyl phthalate	74	(74 - 116)	SW846 8270C
Carbazole	83	(62 - 109)	SW846 8270C
4-Chloroaniline	56	(25 - 90)	SW846 8270C
4-Chloro-3-methylphenol	**80**	**(71 - 118)**	**SW846 8270C**
2-Chloronaphthalene	79	(70 - 109)	SW846 8270C
2-Chlorophenol	**74**	**(63 - 114)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	91	(73 - 111)	SW846 8270C
Chrysene	90	(70 - 110)	SW846 8270C
Dibenz(a,h)anthracene	79	(70 - 126)	SW846 8270C
Dibenzofuran	86	(70 - 110)	SW846 8270C
Di-n-butyl phthalate	78	(68 - 121)	SW846 8270C
1,2-Dichlorobenzene	76	(65 - 109)	SW846 8270C
1,3-Dichlorobenzene	75	(64 - 109)	SW846 8270C
1,4-Dichlorobenzene	**76**	**(65 - 111)**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
3,3'-Dichlorobenzidine	60	(34 - 99)	SW846 8270C
2,4-Dichlorophenol	87	(66 - 116)	SW846 8270C
Diethyl phthalate	76	(63 - 116)	SW846 8270C
2,4-Dimethylphenol	41	(40 - 85)	SW846 8270C
Dimethyl phthalate	81	(71 - 111)	SW846 8270C
4,6-Dinitro-2-methylphenol	88	(66 - 139)	SW846 8270C
2,4-Dinitrophenol	87	(30 - 150)	SW846 8270C
2,4-Dinitrotoluene	**84**	**(72 - 131)**	**SW846 8270C**
2,6-Dinitrotoluene	88	(71 - 142)	SW846 8270C
Di-n-octyl phthalate	75 a	(76 - 123)	SW846 8270C
1,2-Diphenylhydrazine	73	(61 - 113)	SW846 8270C
Fluoranthene	96	(66 - 114)	SW846 8270C
Fluorene	85	(61 - 111)	SW846 8270C
Hexachlorobenzene	79	(71 - 116)	SW846 8270C
Hexachlorobutadiene	76	(56 - 108)	SW846 8270C
Hexachlorocyclopentadiene	46	(15 - 90)	SW846 8270C
Hexachloroethane	71	(65 - 119)	SW846 8270C
Indeno(1,2,3-cd)pyrene	78	(67 - 121)	SW846 8270C
Isophorone	76	(68 - 108)	SW846 8270C
2-Methylnaphthalene	91	(66 - 108)	SW846 8270C
2-Methylphenol	72	(62 - 108)	SW846 8270C
Naphthalene	78	(63 - 108)	SW846 8270C
2-Nitroaniline	72	(56 - 121)	SW846 8270C
3-Nitroaniline	67	(46 - 104)	SW846 8270C
4-Nitroaniline	68	(52 - 112)	SW846 8270C
Nitrobenzene	78	(70 - 116)	SW846 8270C
2-Nitrophenol	86	(61 - 133)	SW846 8270C
4-Nitrophenol	**67**	**(61 - 128)**	**SW846 8270C**
N-Nitrosodimethylamine	85	(59 - 117)	SW846 8270C
N-Nitrosodiphenylamine	86	(70 - 123)	SW846 8270C
N-Nitrosodi-n-propylamine	**76**	**(62 - 114)**	**SW846 8270C**
Pentachlorophenol	**81**	**(71 - 122)**	**SW846 8270C**
Phenanthrene	87	(64 - 108)	SW846 8270C
Phenol	**76**	**(59 - 117)**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
bis(2-Chloroisopropyl) ether	68	(60 - 112)	SW846 8270C
Pyrene	**96**	**(67 - 114)**	**SW846 8270C**
Pyridine	72	(37 - 107)	SW846 8270C
1,2,4-Trichloro-benzene	**92**	**(66 - 113)**	**SW846 8270C**
2,4,5-Trichloro-phenol	84	(72 - 117)	SW846 8270C
2,4,6-Trichloro-phenol	84	(69 - 118)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(36 - 98)
Phenol-d5	74	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	86	(56 - 118)
2,4,6-Tribromophenol	81	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**100**	**82.6**	**ug/L**	**83**	**SW846 8270C**
Acenaphthylene	100	82.1	ug/L	82	SW846 8270C
Aniline	100	59.9	ug/L	60	SW846 8270C
Anthracene	100	85.4	ug/L	85	SW846 8270C
Benz(a)anthracene	100	89.2	ug/L	89	SW846 8270C
Benzo(b)fluoranthene	100	73.0	ug/L	73	SW846 8270C
Benzo(k)fluoranthene	100	93.3	ug/L	93	SW846 8270C
Benzoic acid	100	52.8	ug/L	53	SW846 8270C
Benzo(ghi)perylene	100	80.5	ug/L	80	SW846 8270C
Benzo(a)pyrene	100	83.4	ug/L	83	SW846 8270C
Benzyl alcohol	100	77.0	ug/L	77	SW846 8270C
bis(2-Chloroethoxy) methane	100	73.4	ug/L	73	SW846 8270C
bis(2-Chloroethyl)-ether	100	72.3	ug/L	72	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	81.4	ug/L	81	SW846 8270C
4-Bromophenyl phenyl ether	100	98.3	ug/L	98	SW846 8270C
Butyl benzyl phthalate	100	74.4	ug/L	74	SW846 8270C
Carbazole	100	83.0	ug/L	83	SW846 8270C
4-Chloroaniline	100	55.5	ug/L	56	SW846 8270C
4-Chloro-3-methylphenol	**100**	**79.7**	**ug/L**	**80**	**SW846 8270C**
2-Chloronaphthalene	100	79.3	ug/L	79	SW846 8270C
2-Chlorophenol	**100**	**73.5**	**ug/L**	**74**	**SW846 8270C**
4-Chlorophenyl phenyl ether	100	91.4	ug/L	91	SW846 8270C
Chrysene	100	89.5	ug/L	90	SW846 8270C
Dibenz(a,h)anthracene	100	79.0	ug/L	79	SW846 8270C
Dibenzofuran	100	86.4	ug/L	86	SW846 8270C
Di-n-butyl phthalate	100	78.2	ug/L	78	SW846 8270C
1,2-Dichlorobenzene	100	76.3	ug/L	76	SW846 8270C
1,3-Dichlorobenzene	100	75.3	ug/L	75	SW846 8270C
1,4-Dichlorobenzene	**100**	**75.8**	**ug/L**	**76**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3,3'-Dichlorobenzidine	100	59.7	ug/L	60	SW846 8270C
2,4-Dichlorophenol	100	86.6	ug/L	87	SW846 8270C
Diethyl phthalate	100	76.5	ug/L	76	SW846 8270C
2,4-Dimethylphenol	100	40.8	ug/L	41	SW846 8270C
Dimethyl phthalate	100	81.3	ug/L	81	SW846 8270C
4,6-Dinitro-2-methylphenol	100	87.8	ug/L	88	SW846 8270C
2,4-Dinitrophenol	100	86.8	ug/L	87	SW846 8270C
2,4-Dinitrotoluene	**100**	**84.5**	**ug/L**	**84**	**SW846 8270C**
2,6-Dinitrotoluene	100	87.8	ug/L	88	SW846 8270C
Di-n-octyl phthalate	100	74.8 a	ug/L	75	SW846 8270C
1,2-Diphenylhydrazine	100	73.2	ug/L	73	SW846 8270C
Fluoranthene	100	96.2	ug/L	96	SW846 8270C
Fluorene	100	85.0	ug/L	85	SW846 8270C
Hexachlorobenzene	100	79.3	ug/L	79	SW846 8270C
Hexachlorobutadiene	100	76.1	ug/L	76	SW846 8270C
Hexachlorocyclopentadiene	100	46.1	ug/L	46	SW846 8270C
Hexachloroethane	100	70.6	ug/L	71	SW846 8270C
Indeno(1,2,3-cd)pyrene	100	78.2	ug/L	78	SW846 8270C
Isophorone	100	76.0	ug/L	76	SW846 8270C
2-Methylnaphthalene	100	91.1	ug/L	91	SW846 8270C
2-Methylphenol	100	72.0	ug/L	72	SW846 8270C
Naphthalene	100	78.0	ug/L	78	SW846 8270C
2-Nitroaniline	100	71.9	ug/L	72	SW846 8270C
3-Nitroaniline	100	66.9	ug/L	67	SW846 8270C
4-Nitroaniline	100	67.7	ug/L	68	SW846 8270C
Nitrobenzene	100	78.2	ug/L	78	SW846 8270C
2-Nitrophenol	100	85.9	ug/L	86	SW846 8270C
4-Nitrophenol	**100**	**67.2**	**ug/L**	**67**	**SW846 8270C**
N-Nitrosodimethylamine	100	85.4	ug/L	85	SW846 8270C
N-Nitrosodiphenylamine	100	86.5	ug/L	86	SW846 8270C
N-Nitrosodi-n-propylamine	**100**	**75.6**	**ug/L**	**76**	**SW846 8270C**
Pentachlorophenol	**100**	**81.2**	**ug/L**	**81**	**SW846 8270C**
Phenanthrene	100	87.4	ug/L	87	SW846 8270C
Phenol	**100**	**75.7**	**ug/L**	**76**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D040000-076

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
bis(2-Chloroisopropyl) ether	100	67.5	ug/L	68	SW846 8270C
Pyrene	**100**	**96.5**	**ug/L**	**96**	**SW846 8270C**
Pyridine	100	72.2	ug/L	72	SW846 8270C
1,2,4-Trichloro-benzene	**100**	**91.6**	**ug/L**	**92**	**SW846 8270C**
2,4,5-Trichloro-phenol	100	84.1	ug/L	84	SW846 8270C
2,4,6-Trichloro-phenol	100	84.2	ug/L	84	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(36 - 98)
Phenol-d5	74	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	86	(56 - 118)
2,4,6-Tribromophenol	81	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Lab Smp Id: H2H9X1AC
Client Smp ID: INTRA-LAB CHECK
Inj Date : 18-APR-2006 15:40
Operator : 60841
Inst ID: md.i
Smp Info : H2H9X1AC,,3,,,LCS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 15:23 mcgeek
Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59
Cal File: a9dc098.d
Als bottle: 1
QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	54298	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	173717	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	127135	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	221781	20.0000	
* 5 Chrysene-d12	240	12.008	12.009	(1.000)	229100	20.0000	
* 6 Perylene-d12	264	13.236	13.231	(1.000)	217161	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.726)	182123	47.9629	48.0
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	252790	55.1902	55.2
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	148350	37.8846	37.9
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	361361	43.1147	43.1
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	85529	60.8182	60.8
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	480283	43.1013	43.1
13 N-Nitrosodimethylamine	74	2.049	2.050	(0.492)	154842	85.4393	85.4
14 Pyridine	79	2.061	2.067	(0.495)	261834	72.2553	72.2

Data File: /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	366688	75.7455	75.7
16 Aniline	93	3.871	3.877	(0.929)	323604	59.8606	59.9
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	245035	72.3296	72.3
18 2-Chlorophenol	128	3.988	3.988	(0.958)	264698	73.5439	73.5
19 1,3-Dichlorobenzene	146	4.123	4.124	(0.990)	310228	75.2700	75.3
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.003)	315564	75.7915	75.8
21 Benzyl alcohol	108	4.329	4.323	(1.040)	184861	77.0022	77.0
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	304328	76.2654	76.3
23 2-Methylphenol	108	4.476	4.476	(1.075)	247541	71.9797	72.0
24 2,2'-Oxybis(1-Chloropropane)	45	4.499	4.500	(1.080)	392068	67.5287	67.5
25 4-Methylphenol	108	4.652	4.647	(1.117)	542652	151.787	152
26 3&4 Methylphenol	108	4.652	4.647	(1.117)	542652	151.787	152
27 N-Nitroso-di-n-propylamine###	70	4.658	4.658	(1.119)	201749	75.6248	75.6
28 Hexachloroethane	117	4.723	4.723	(1.134)	114364	70.6266	70.6
29 Nitrobenzene	77	4.834	4.835	(0.841)	297069	78.2451	78.2
30 Isophorone	82	5.146	5.146	(0.895)	535581	75.9746	76.0
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	147825	85.8691	85.9
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	155859	40.8198	40.8
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	297370	73.3534	73.4
34 Benzoic acid	122	5.510	5.510	(0.958)	104193	52.8053	52.8
35 2,4-Dichlorophenol (ccc)	162	5.592	5.593	(0.972)	263016	86.5842	86.6
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	309874	91.6450	91.6
37 Naphthalene	128	5.780	5.781	(1.005)	793657	78.0213	78.0
38 4-Chloroaniline	127	5.898	5.898	(1.026)	243304	55.4882	55.5
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	185693	76.1129	76.1
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	254082	79.6848	79.7
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	591578	91.1025	91.1
42 Hexachlorocyclopentadiene####	237	7.167	7.173	(0.852)	131541	46.0960	46.1
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	218728	84.1928	84.2
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	241684	84.1256	84.1
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	606251	79.2955	79.3
46 2-Nitroaniline	65	7.837	7.831	(0.932)	175004	71.9343	71.9
47 Acenaphthylene	152	8.213	8.213	(0.976)	985710	82.1479	82.1
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	715406	81.3305	81.3
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	165183	87.8494	87.8
50 3-Nitroaniline	138	8.413	8.413	(1.000)	150605	66.9364	66.9
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	594826	82.5573	82.6
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.015)	82974	86.8452	86.8
53 Dibenzofuran	168	8.654	8.648	(1.029)	929089	86.4366	86.4
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	94235	67.1539	67.2
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	214138	84.5407	84.5
56 Fluorene	166	9.035	9.036	(1.074)	761407	84.9986	85.0
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	407495	91.4471	91.4
58 Diethyl phthalate	149	9.024	9.024	(1.073)	662060	76.4730	76.5
59 4-Nitroaniline	138	9.118	9.118	(1.084)	154053	67.7020	67.7
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	122501	87.7912	87.8
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	502011	86.5418	86.5

Data File: /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	658671	73.2150	73.2
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	242679	98.3265	98.3
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	244592	79.2708	79.3
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	162133	81.1637	81.2
66 Phenanthrene	178	9.946	9.946	(1.002)	1168596	87.3848	87.4
67 Anthracene	178	9.987	9.982	(1.006)	1142113	85.3712	85.4
68 Carbazole	167	10.134	10.134	(1.021)	1046035	82.9889	83.0
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1117800	78.2014	78.2
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1389524	96.1964	96.2
71 Pyrene	202	11.086	11.080	(0.923)	1413488	96.4645	96.5
72 Butyl benzyl phthalate	149	11.585	11.586	(0.965)	488470	74.3882	74.4
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1338136	89.2026	89.2
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	338828	59.6657	59.7
75 Chrysene	228	12.032	12.026	(1.002)	1286144	89.5404	89.5
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	678982	81.3628	81.4
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	1187501	74.7937	74.8
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1217484	72.9564	73.0
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1589611	93.2823	93.3
80 Benzo(a)pyrene (ccc)	252	13.189	13.190	(0.996)	1159201	83.3515	83.4
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1205586	78.2424	78.2
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1019963	78.9775	79.0
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.097)	1048755	80.4736	80.5

Data File: /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h9x1ac.d
Lab Smp Id: H2H9X1AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	54298	-12.32
2 Naphthalene-d8	196946	98473	393892	173717	-11.79
3 Acenaphthene-d10	140395	70198	280790	127135	-9.44
4 Phenanthrene-d10	245474	122737	490948	221781	-9.65
5 Chrysene-d12	253631	126816	507262	229100	-9.67
6 Perylene-d12	225613	112806	451226	217161	-3.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: H2H9X1AC
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D040000
Fraction: SV
Client Smp ID: INTRA-LAB CHECK
Operator: 60841
SampleType: METHOD SPIKE
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	100	85.4	85.44	35-150
14 Pyridine	100	72.2	72.26	35-150
15 Phenol (ccc)	100	75.7	75.75	59-117
16 Aniline	100	59.9	59.86	35-150
17 Bis(2-chloroethyl)	100	72.3	72.33	35-150
18 2-Chlorophenol	100	73.5	73.54	63-114
19 1,3-Dichlorobenzen	100	75.3	75.27	35-150
20 1,4-Dichlorobenzen	100	75.8	75.79	65-111
21 Benzyl alcohol	100	77.0	77.00	35-150
22 1,2-Dichlorobenzen	100	76.3	76.27	35-150
23 2-Methylphenol	100	72.0	71.98	35-150
24 2,2'-Oxybis(1-Chlo	100	67.5	67.53	35-150
25 4-Methylphenol	200	152	75.89	35-150
26 3&4 Methylphenol	200	152	75.89	35-150
27 N-Nitroso-di-n-pro	100	75.6	75.62	62-114
28 Hexachloroethane	100	70.6	70.63	35-150
29 Nitrobenzene	100	78.2	78.25	35-150
30 Isophorone	100	76.0	75.97	35-150
31 2-Nitrophenol (ccc	100	85.9	85.87	35-150
32 2,4-Dimethyphenol	100	40.8	40.82	35-150
33 Bis(2-chloroethoxy	100	73.4	73.35	35-150
34 Benzoic acid	100	52.8	52.81	35-150
35 2,4-Dichlorophenol	100	86.6	86.58	35-150
36 1,2,4-Trichloroben	100	91.6	91.64	66-113
37 Naphthalene	100	78.0	78.02	60-100
38 4-Chloroaniline	100	55.5	55.49	35-150
39 Hexachlorobutadien	100	76.1	76.11	35-150
40 4-Chloro-3-methylp	100	79.7	79.68	71-118
41 2-Methylnaphthalen	100	91.1	91.10	35-150
42 Hexachlorocyclopen	100	46.1	46.10	35-150
43 2,4,6-Trichlorophe	100	84.2	84.19	35-150
44 2,4,5-Trichlorphen	100	84.1	84.13	35-150
45 2-Chloronaphthalen	100	79.3	79.30	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	100	71.9	71.93	35-150
47 Acenaphthylene	100	82.1	82.15	60-106
48 Dimethyl phthalate	100	81.3	81.33	35-150
49 2,6-Dinitrotoluene	100	87.8	87.85	35-150
50 3-Nitroaniline	100	66.9	66.94	35-150
51 Acenaphthene (ccc)	100	82.6	82.56	65-107
52 2,4-Dinitrophenol	100	86.8	86.85	35-150
53 Dibenzofuran	100	86.4	86.44	35-150
54 4-Nitrophenol ##sp	100	67.2	67.15	61-128
55 2,4-Dinitrotoluene	100	84.5	84.54	72-131
56 Fluorene	100	85.0	85.00	60-113
57 4-Chlorophenyl phe	100	91.4	91.45	35-150
58 Diethyl phthalate	100	76.5	76.47	35-150
59 4-Nitroaniline	100	67.7	67.70	35-150
60 4,6-Dinitro-2-meth	100	87.8	87.79	35-150
61 N-Ndpa / diphenyla	100	86.5	86.54	35-150
62 1,2-Diphenylhydraz	100	73.2	73.22	35-150
63 4-Bromophenyl phen	100	98.3	98.33	35-150
64 Hexachlorobenzene	100	79.3	79.27	35-150
65 Pentachlorophenol	100	81.2	81.16	71-122
66 Phenanthrene	100	87.4	87.38	65-108
67 Anthracene	100	85.4	85.37	67-114
68 Carbazole	100	83.0	82.99	35-150
69 Di-n-butyl phthala	100	78.2	78.20	35-150
70 Fluoranthene (ccc)	100	96.2	96.20	65-115
71 Pyrene	100	96.5	96.46	67-114
72 Butyl benzyl phtha	100	74.4	74.39	35-150
73 Benzo(a)Anthracene	100	89.2	89.20	70-114
74 3,3'-Dichlorobenzi	100	59.7	59.67	35-150
75 Chrysene	100	89.5	89.54	68-111
76 Bis(2-ethylhexyl)	100	81.4	81.36	35-150
77 Di-n-octyl phthala	100	74.8	74.79	35-150
78 Benzo(b)fluoranthe	100	73.0	72.96	60-120
79 Benzo(k)fluoranthe	100	93.3	93.28	61-119
80 Benzo(a)pyrene (cc	100	83.4	83.35	67-111
81 Indeno(1,2,3-cd)py	100	78.2	78.24	67-120
82 Dibenz(a,h)anthrac	100	79.0	78.98	71-120
83 Benzo(g,h,i)peryle	100	80.5	80.47	63-120

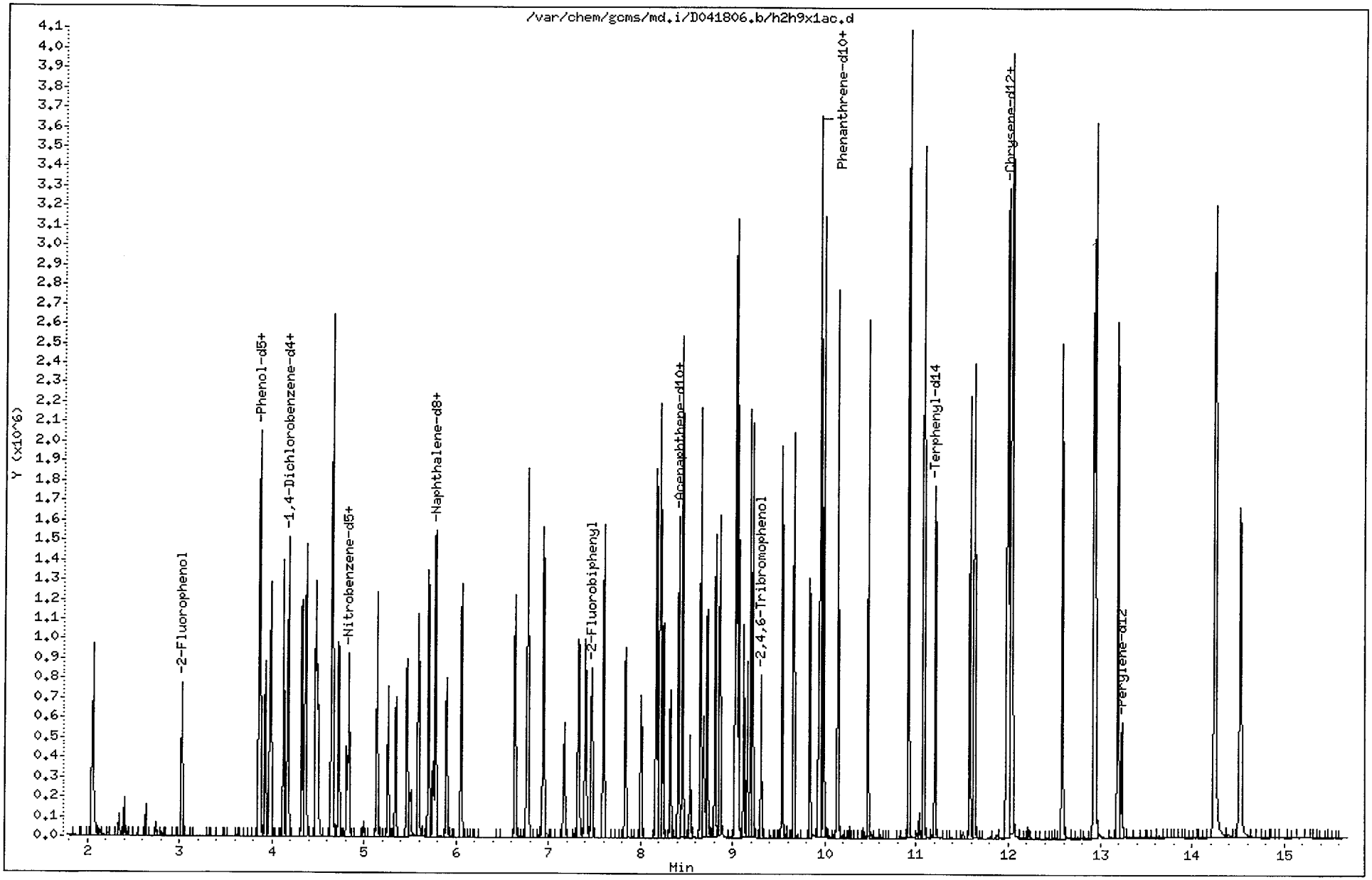
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	75.0	48.0	63.95	36-98
$ 8 Phenol-d5	75.0	55.2	73.59	49-109

Data File: /chem/gcms/md.i/D041806.b/h2h9x1ac.d
Report Date: 18-Apr-2006 15:56

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	50.0	37.9	75.77	57-120
$ 10 2-Fluorobiphenyl	50.0	43.1	86.23	56-118
$ 11 2,4,6-Tribromophen	75.0	60.8	81.09	55-134
$ 12 Terphenyl-d14	50.0	43.1	86.20	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h9x1ac.d
Date : 18-APR-2006 15:40
Client ID: INTRA-LAB CHECK
Sample Info: H2H9X1AC,,3,,,LCS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**81**	**(65 - 107)**			**SW846 8270C**
	82	**(65 - 107)**	**1.2**	**(0-26)**	**SW846 8270C**
Acenaphthylene	82	(62 - 108)			SW846 8270C
	81	(62 - 108)	0.93	(0-30)	SW846 8270C
Aniline	57	(25 - 105)			SW846 8270C
	47	(25 - 105)	19	(0-39)	SW846 8270C
Anthracene	83	(64 - 115)			SW846 8270C
	87	(64 - 115)	4.4	(0-21)	SW846 8270C
Benzo(b)fluoranthene	72	(53 - 127)			SW846 8270C
	71	(53 - 127)	0.66	(0-45)	SW846 8270C
Benzo(k)fluoranthene	86	(55 - 121)			SW846 8270C
	91	(55 - 121)	6.6	(0-48)	SW846 8270C
Benzoic acid	65	(20 - 141)			SW846 8270C
	68	(20 - 141)	4.1	(0-49)	SW846 8270C
Benzo(ghi)perylene	77	(56 - 123)			SW846 8270C
	78	(56 - 123)	1.1	(0-31)	SW846 8270C
Benzo(a)pyrene	80	(56 - 112)			SW846 8270C
	82	(56 - 112)	2.7	(0-32)	SW846 8270C
Benzyl alcohol	73	(68 - 122)			SW846 8270C
	69	(68 - 122)	6.0	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	72	(64 - 108)			SW846 8270C
	64	(64 - 108)	11	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	69	(63 - 113)			SW846 8270C
	61 a	(63 - 113)	13	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	80	(62 - 138)			SW846 8270C
	84	(62 - 138)	4.8	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	98	(78 - 136)			SW846 8270C
	100	(78 - 136)	1.9	(0-23)	SW846 8270C
Butyl benzyl phthalate	73	(67 - 123)			SW846 8270C
	77	(67 - 123)	6.5	(0-27)	SW846 8270C
Carbazole	81	(62 - 109)			SW846 8270C
	84	(62 - 109)	3.2	(0-21)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	45	(24 - 90)			SW846 8270C
	46	(24 - 90)	1.7	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**79**	**(66 - 130)**			**SW846 8270C**
	79	**(66 - 130)**	**0.72**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	78	(70 - 109)			SW846 8270C
	75	(70 - 109)	3.8	(0-28)	SW846 8270C
2-Chlorophenol	**71**	**(59 - 118)**			**SW846 8270C**
	63	**(59 - 118)**	**12**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	91	(71 - 114)			SW846 8270C
	92	(71 - 114)	1.0	(0-23)	SW846 8270C
Chrysene	82	(62 - 114)			SW846 8270C
	85	(62 - 114)	3.3	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	75	(61 - 129)			SW846 8270C
	75	(61 - 129)	0.76	(0-28)	SW846 8270C
Dibenzofuran	85	(70 - 111)			SW846 8270C
	86	(70 - 111)	1.1	(0-25)	SW846 8270C
Di-n-butyl phthalate	78	(67 - 126)			SW846 8270C
	84	(67 - 126)	7.1	(0-20)	SW846 8270C
1,2-Dichlorobenzene	74	(58 - 114)			SW846 8270C
	63	(58 - 114)	16	(0-35)	SW846 8270C
1,3-Dichlorobenzene	74	(57 - 112)			SW846 8270C
	63	(57 - 112)	16	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**73**	**(58 - 113)**			**SW846 8270C**
	63	**(58 - 113)**	**14**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	43	(20 - 100)			SW846 8270C
	45	(20 - 100)	5.2	(0-50)	SW846 8270C
2,4-Dichlorophenol	86	(65 - 121)			SW846 8270C
	77	(65 - 121)	11	(0-36)	SW846 8270C
Diethyl phthalate	75	(60 - 116)			SW846 8270C
	78	(60 - 116)	4.5	(0-21)	SW846 8270C
2,4-Dimethylphenol	36	(30 - 107)			SW846 8270C
	37	(30 - 107)	4.7	(0-41)	SW846 8270C
Dimethyl phthalate	81	(68 - 114)			SW846 8270C
	84	(68 - 114)	3.1	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	90	(66 - 147)			SW846 8270C
	96	(66 - 147)	6.6	(0-44)	SW846 8270C
2,4-Dinitrophenol	90	(30 - 150)			SW846 8270C
	95	(30 - 150)	4.8	(0-50)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**86**	**(69 - 131)**			**SW846 8270C**
	91	**(69 - 131)**	**6.0**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	86	(71 - 142)			SW846 8270C
	91	(71 - 142)	4.6	(0-30)	SW846 8270C
Di-n-octyl phthalate	72	(67 - 127)			SW846 8270C
	76	(67 - 127)	5.1	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	73	(61 - 111)			SW846 8270C
	75	(61 - 111)	3.3	(0-32)	SW846 8270C
Fluoranthene	93	(60 - 119)			SW846 8270C
	98	(60 - 119)	5.0	(0-23)	SW846 8270C
Fluorene	85	(60 - 111)			SW846 8270C
	87	(60 - 111)	2.0	(0-24)	SW846 8270C
Hexachlorobenzene	79	(65 - 120)			SW846 8270C
	83	(65 - 120)	5.8	(0-22)	SW846 8270C
Hexachlorobutadiene	75	(51 - 110)			SW846 8270C
	64	(51 - 110)	16	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	42	(20 - 92)			SW846 8270C
	49	(20 - 92)	16	(0-50)	SW846 8270C
Hexachloroethane	68	(57 - 122)			SW846 8270C
	59	(57 - 122)	14	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	76	(56 - 124)			SW846 8270C
	74	(56 - 124)	2.5	(0-29)	SW846 8270C
Isophorone	75	(68 - 110)			SW846 8270C
	70	(68 - 110)	7.3	(0-30)	SW846 8270C
2-Methylnaphthalene	91	(62 - 110)			SW846 8270C
	83	(62 - 110)	9.4	(0-29)	SW846 8270C
2-Methylphenol	68	(58 - 115)			SW846 8270C
	63	(58 - 115)	8.6	(0-38)	SW846 8270C
Naphthalene	77	(61 - 108)			SW846 8270C
	68	(61 - 108)	13	(0-35)	SW846 8270C
2-Nitroaniline	69	(56 - 121)			SW846 8270C
	72	(56 - 121)	5.3	(0-25)	SW846 8270C
3-Nitroaniline	55	(42 - 104)			SW846 8270C
	60	(42 - 104)	8.7	(0-32)	SW846 8270C
4-Nitroaniline	49	(48 - 112)			SW846 8270C
	54	(48 - 112)	9.1	(0-30)	SW846 8270C
Nitrobenzene	88	(67 - 118)			SW846 8270C
	72	(67 - 118)	20	(0-35)	SW846 8270C
2-Nitrophenol	86	(60 - 133)			SW846 8270C
	77	(60 - 133)	10	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**72**	**(61 - 142)**			**SW846 8270C**
	71	**(61 - 142)**	**0.66**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	82	(56 - 121)			SW846 8270C
	71	(56 - 121)	14	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	89	(59 - 128)			SW846 8270C
	93	(59 - 128)	4.2	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**71**	**(60 - 117)**			**SW846 8270C**
	68	**(60 - 117)**	**5.0**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**83**	**(71 - 135)**			**SW846 8270C**
	86	**(71 - 135)**	**3.9**	**(0-37)**	**SW846 8270C**
Phenanthrene	86	(64 - 108)			SW846 8270C
	90	(64 - 108)	3.7	(0-21)	SW846 8270C
Phenol	**74**	**(55 - 123)**			**SW846 8270C**
	65	**(55 - 123)**	**13**	**(0-41)**	**SW846 8270C**
Pyrene	**94**	**(63 - 114)**			**SW846 8270C**
	97	**(63 - 114)**	**3.4**	**(0-27)**	**SW846 8270C**
Pyridine	70	(37 - 107)			SW846 8270C
	59	(37 - 107)	17	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**90**	**(63 - 113)**			**SW846 8270C**
	76	**(63 - 113)**	**17**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	83	(72 - 120)			SW846 8270C
	85	(72 - 120)	2.9	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	83	(69 - 122)			SW846 8270C
	83	(69 - 122)	0.57	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(36 - 98)
	52	(36 - 98)
Phenol-d5	71	(49 - 109)
	62	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	64	(57 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(56 - 118)
	80	(56 - 118)
2,4,6-Tribromophenol	80	(55 - 134)
	83	(55 - 134)
Terphenyl-d14	77	(33 - 142)
	74	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**105**	**85.3**	**ug/L**	**81**		**SW846 8270C**
	ND	**105**	**86.3**	**ug/L**	**82**	**1.2**	**SW846 8270C**
Acenaphthylene	ND	105	85.9	ug/L	82		SW846 8270C
	ND	105	85.1	ug/L	81	0.93	SW846 8270C
Aniline	ND	105	59.8	ug/L	57		SW846 8270C
	ND	105	49.5	ug/L	47	19	SW846 8270C
Anthracene	ND	105	87.3	ug/L	83		SW846 8270C
	ND	105	91.2	ug/L	87	4.4	SW846 8270C
Benzo(b)fluoranthene	ND	105	75.5	ug/L	72		SW846 8270C
	ND	105	75.0	ug/L	71	0.66	SW846 8270C
Benzo(k)fluoranthene	ND	105	89.9	ug/L	86		SW846 8270C
	ND	105	96.0	ug/L	91	6.6	SW846 8270C
Benzoic acid	ND	105	68.7	ug/L	65		SW846 8270C
	ND	105	71.6	ug/L	68	4.1	SW846 8270C
Benzo(ghi)perylene	ND	105	80.6	ug/L	77		SW846 8270C
	ND	105	81.5	ug/L	78	1.1	SW846 8270C
Benzo(a)pyrene	ND	105	84.2	ug/L	80		SW846 8270C
	ND	105	86.5	ug/L	82	2.7	SW846 8270C
Benzyl alcohol	ND	105	77.1	ug/L	73		SW846 8270C
	ND	105	72.6	ug/L	69	6.0	SW846 8270C
bis(2-Chloroethoxy) methane	ND	105	75.8	ug/L	72		SW846 8270C
	ND	105	67.7	ug/L	64	11	SW846 8270C
bis(2-Chloroethyl)-ether	ND	105	72.6	ug/L	69		SW846 8270C
	ND	105	63.7	ug/L	61 a	13	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	105	84.0	ug/L	80		SW846 8270C
	ND	105	88.1	ug/L	84	4.8	SW846 8270C
4-Bromophenyl phenyl ether	ND	105	103	ug/L	98		SW846 8270C
	ND	105	105	ug/L	100	1.9	SW846 8270C
Butyl benzyl phthalate	ND	105	76.2	ug/L	73		SW846 8270C
	ND	105	81.3	ug/L	77	6.5	SW846 8270C
Carbazole	ND	105	85.3	ug/L	81		SW846 8270C
	ND	105	88.1	ug/L	84	3.2	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	105	47.4	ug/L	45		SW846 8270C
	ND	105	48.2	ug/L	46	1.7	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**105**	**82.6**	**ug/L**	**79**		**SW846 8270C**
	ND	**105**	**83.2**	**ug/L**	**79**	**0.72**	**SW846 8270C**
2-Chloronaphthalene	ND	105	82.2	ug/L	78		SW846 8270C
	ND	105	79.1	ug/L	75	3.8	SW846 8270C
2-Chlorophenol	**ND**	**105**	**74.4**	**ug/L**	**71**		**SW846 8270C**
	ND	**105**	**65.7**	**ug/L**	**63**	**12**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	105	95.9	ug/L	91		SW846 8270C
	ND	105	96.9	ug/L	92	1.0	SW846 8270C
Chrysene	ND	105	85.9	ug/L	82		SW846 8270C
	ND	105	88.8	ug/L	85	3.3	SW846 8270C
Dibenz(a,h)anthracene	ND	105	79.0	ug/L	75		SW846 8270C
	ND	105	78.4	ug/L	75	0.76	SW846 8270C
Dibenzofuran	ND	105	89.4	ug/L	85		SW846 8270C
	ND	105	90.4	ug/L	86	1.1	SW846 8270C
Di-n-butyl phthalate	ND	105	81.8	ug/L	78		SW846 8270C
	ND	105	87.8	ug/L	84	7.1	SW846 8270C
1,2-Dichlorobenzene	ND	105	77.6	ug/L	74		SW846 8270C
	ND	105	66.2	ug/L	63	16	SW846 8270C
1,3-Dichlorobenzene	ND	105	77.6	ug/L	74		SW846 8270C
	ND	105	66.4	ug/L	63	16	SW846 8270C
1,4-Dichlorobenzene	**ND**	**105**	**76.8**	**ug/L**	**73**		**SW846 8270C**
	ND	**105**	**66.6**	**ug/L**	**63**	**14**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	105	45.0	ug/L	43		SW846 8270C
	ND	105	47.4	ug/L	45	5.2	SW846 8270C
2,4-Dichlorophenol	ND	105	90.3	ug/L	86		SW846 8270C
	ND	105	81.0	ug/L	77	11	SW846 8270C
Diethyl phthalate	ND	105	78.6	ug/L	75		SW846 8270C
	ND	105	82.2	ug/L	78	4.5	SW846 8270C
2,4-Dimethylphenol	ND	105	37.4	ug/L	36		SW846 8270C
	ND	105	39.2	ug/L	37	4.7	SW846 8270C
Dimethyl phthalate	ND	105	85.1	ug/L	81		SW846 8270C
	ND	105	87.8	ug/L	84	3.1	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	105	94.5	ug/L	90		SW846 8270C
	ND	105	101	ug/L	96	6.6	SW846 8270C
2,4-Dinitrophenol	ND	105	94.9	ug/L	90		SW846 8270C
	ND	105	99.6	ug/L	95	4.8	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**105**	**90.0**	**ug/L**	**86**		**SW846 8270C**
	ND	**105**	**95.6**	**ug/L**	**91**	**6.0**	**SW846 8270C**
2,6-Dinitrotoluene	ND	105	90.8	ug/L	86		SW846 8270C
	ND	105	95.1	ug/L	91	4.6	SW846 8270C
Di-n-octyl phthalate	ND	105	76.0	ug/L	72		SW846 8270C
	ND	105	80.0	ug/L	76	5.1	SW846 8270C
1,2-Diphenylhydrazine	ND	105	76.4	ug/L	73		SW846 8270C
	ND	105	79.0	ug/L	75	3.3	SW846 8270C
Fluoranthene	ND	105	98.0	ug/L	93		SW846 8270C
	ND	105	103	ug/L	98	5.0	SW846 8270C
Fluorene	ND	105	89.6	ug/L	85		SW846 8270C
	ND	105	91.4	ug/L	87	2.0	SW846 8270C
Hexachlorobenzene	ND	105	82.5	ug/L	79		SW846 8270C
	ND	105	87.4	ug/L	83	5.8	SW846 8270C
Hexachlorobutadiene	ND	105	79.0	ug/L	75		SW846 8270C
	ND	105	67.6	ug/L	64	16	SW846 8270C
Hexachlorocyclopenta-diene	ND	105	44.1	ug/L	42		SW846 8270C
	ND	105	51.9	ug/L	49	16	SW846 8270C
Hexachloroethane	ND	105	71.0	ug/L	68		SW846 8270C
	ND	105	62.0	ug/L	59	14	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	105	79.9	ug/L	76		SW846 8270C
	ND	105	77.9	ug/L	74	2.5	SW846 8270C
Isophorone	ND	105	79.0	ug/L	75		SW846 8270C
	ND	105	73.4	ug/L	70	7.3	SW846 8270C
2-Methylnaphthalene	ND	105	95.5	ug/L	91		SW846 8270C
	ND	105	86.9	ug/L	83	9.4	SW846 8270C
2-Methylphenol	ND	105	71.9	ug/L	68		SW846 8270C
	ND	105	66.0	ug/L	63	8.6	SW846 8270C
Naphthalene	ND	105	80.4	ug/L	77		SW846 8270C
	ND	105	70.9	ug/L	68	13	SW846 8270C
2-Nitroaniline	ND	105	72.2	ug/L	69		SW846 8270C
	ND	105	76.1	ug/L	72	5.3	SW846 8270C
3-Nitroaniline	ND	105	57.3	ug/L	55		SW846 8270C
	ND	105	62.5	ug/L	60	8.7	SW846 8270C
4-Nitroaniline	ND	105	51.5	ug/L	49		SW846 8270C
	ND	105	56.4	ug/L	54	9.1	SW846 8270C
Nitrobenzene	ND	105	92.6	ug/L	88		SW846 8270C
	ND	105	75.7	ug/L	72	20	SW846 8270C
2-Nitrophenol	ND	105	90.1	ug/L	86		SW846 8270C
	ND	105	81.3	ug/L	77	10	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**105**	**75.1**	**ug/L**	**72**		**SW846 8270C**
	ND	**105**	**74.6**	**ug/L**	**71**	**0.66**	**SW846 8270C**
N-Nitrosodimethylamine	ND	105	86.6	ug/L	82		SW846 8270C
	ND	105	74.9	ug/L	71	14	SW846 8270C
N-Nitrosodiphenylamine	ND	105	93.6	ug/L	89		SW846 8270C
	ND	105	97.6	ug/L	93	4.2	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**105**	**74.5**	**ug/L**	**71**		**SW846 8270C**
	ND	**105**	**70.9**	**ug/L**	**68**	**5.0**	**SW846 8270C**
Pentachlorophenol	**ND**	**105**	**87.0**	**ug/L**	**83**		**SW846 8270C**
	ND	**105**	**90.5**	**ug/L**	**86**	**3.9**	**SW846 8270C**
Phenanthrene	ND	105	90.6	ug/L	86		SW846 8270C
	ND	105	94.0	ug/L	90	3.7	SW846 8270C
Phenol	**ND**	**105**	**77.5**	**ug/L**	**74**		**SW846 8270C**
	ND	**105**	**68.2**	**ug/L**	**65**	**13**	**SW846 8270C**
Pyrene	**ND**	**105**	**98.6**	**ug/L**	**94**		**SW846 8270C**
	ND	**105**	**102**	**ug/L**	**97**	**3.4**	**SW846 8270C**
Pyridine	ND	105	73.2	ug/L	70		SW846 8270C
	ND	105	61.8	ug/L	59	17	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**105**	**94.8**	**ug/L**	**90**		**SW846 8270C**
	ND	**105**	**79.8**	**ug/L**	**76**	**17**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	105	87.1	ug/L	83		SW846 8270C
	ND	105	89.7	ug/L	85	2.9	SW846 8270C
2,4,6-Trichloro-phenol	ND	105	86.8	ug/L	83		SW846 8270C
	ND	105	87.3	ug/L	83	0.57	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(36 - 98)
	52	(36 - 98)
Phenol-d5	71	(49 - 109)
	62	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	64	(57 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H351AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-002 H2H351AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(56 - 118)
	80	(56 - 118)
2,4,6-Tribromophenol	80	(55 - 134)
	83	(55 - 134)
Terphenyl-d14	77	(33 - 142)
	74	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h351ac.d
Lab Smp Id: H2H351AC
Client Smp ID: G-2894-R1-SCRUBBER
Inj Date : 18-APR-2006 16:27
Operator : 60841
Inst ID: md.i
Smp Info : H2H351AC,,3,,,MS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek
Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59
Cal File: a9dc098.d
Als bottle: 1
QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	950.00000	Volume of sample extracted (mL)

Cpnd Variable — Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	70528	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	216854	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	157331	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	273615	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	288204	20.0000	
* 6 Perylene-d12	264	13.231	13.231	(1.000)	271510	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	228859	46.4016	48.8
$ 8 Phenol-d5	99	3.859	3.859	(0.928)	317501	53.3669	56.2
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	186823	38.2190	40.2
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	450049	43.3906	45.7
$ 11 2,4,6-Tribromophenol	330	9.312	9.306	(0.938)	104669	60.3290	63.5
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	542456	38.6974	40.7
13 N-Nitrosodimethylamine	74	2.050	2.050	(0.493)	193689	82.2808	86.6
14 Pyridine	79	2.067	2.067	(0.497)	327310	69.5389	73.2

Data File: /chem/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.931)	463242	73.6702	77.5
16 Aniline	93	3.877	3.877	(0.932)	398584	56.7640	59.8
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.945)	303717	69.0212	72.6
18 2-Chlorophenol	128	3.989	3.988	(0.959)	330254	70.6429	74.4
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.992)	394517	73.6939	77.6
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.004)	394520	72.9502	76.8
21 Benzyl alcohol	108	4.329	4.323	(1.041)	228304	73.2143	77.1
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.051)	381996	73.7003	77.6
23 2-Methylphenol	108	4.476	4.476	(1.076)	305236	68.3318	71.9
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.082)	484955	64.3062	67.7
25 4-Methylphenol	108	4.658	4.647	(1.120)	673628	145.064	153
26 3&4 Methylphenol	108	4.658	4.647	(1.120)	673628	145.064	153
27 N-Nitroso-di-n-propylamine###	70	4.664	4.658	(1.121)	245240	70.7733	74.5
28 Hexachloroethane	117	4.723	4.723	(1.136)	141901	67.4664	71.0
29 Nitrobenzene	77	4.835	4.835	(0.841)	417191	88.0259	92.6
30 Isophorone	82	5.146	5.146	(0.895)	660043	75.0051	79.0
31 2-Nitrophenol (ccc)	139	5.264	5.263	(0.915)	183948	85.5973	90.1
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	169245	35.5083	37.4
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	364646	72.0560	75.8
34 Benzoic acid	122	5.522	5.510	(0.960)	160694	65.2402	68.7
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	325317	85.7904	90.3
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	380354	90.1128	94.8
37 Naphthalene	128	5.781	5.781	(1.005)	969554	76.3533	80.4
38 4-Chloroaniline	127	5.898	5.898	(1.026)	246259	44.9903	47.4
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	228539	75.0407	79.0
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	312223	78.4408	82.6
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	735304	90.7113	95.5
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.853)	147850	41.8673	44.1
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	264983	82.4212	86.8
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	294253	82.7662	87.1
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	739320	78.1412	82.2
46 2-Nitroaniline	65	7.837	7.831	(0.932)	206560	68.6096	72.2
47 Acenaphthylene	152	8.213	8.213	(0.976)	1212063	81.6250	85.9
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	880375	80.8761	85.1
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	200818	86.3028	90.8
50 3-Nitroaniline	138	8.413	8.413	(1.000)	151572	54.4367	57.3
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	722734	81.0579	85.3
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.015)	107224	90.1714	94.9
53 Dibenzofuran	168	8.654	8.648	(1.029)	1129573	84.9192	89.4
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	123926	71.3624	75.1
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	267898	85.4657	90.0
56 Fluorene	166	9.036	9.036	(1.074)	943350	85.0979	89.6
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	502526	91.1291	95.9
58 Diethyl phthalate	149	9.024	9.024	(1.073)	799569	74.6308	78.6
59 4-Nitroaniline	138	9.118	9.118	(1.084)	137853	48.9552	51.5
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	154496	89.7454	94.5
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	636215	88.9001	93.6

Data File: /chem/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	805438	72.5686	76.4
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	297678	97.7618	103
64 Hexachlorobenzene	284	9.659	9.658	(0.973)	298311	78.3655	82.5
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	203710	82.6590	87.0
66 Phenanthrene	178	9.946	9.946	(1.002)	1419974	86.0671	90.6
67 Anthracene	178	9.988	9.982	(1.006)	1368413	82.9096	87.3
68 Carbazole	167	10.134	10.134	(1.021)	1259620	81.0025	85.3
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1370660	77.7258	81.8
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1659138	93.1023	98.0
71 Pyrene	202	11.086	11.080	(0.923)	1726533	93.6644	98.6
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	598043	72.3974	76.2
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1606227	85.1155	89.6
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	305162	42.7170	45.0
75 Chrysene	228	12.032	12.026	(1.002)	1474645	81.6096	85.9
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	837672	79.7933	84.0
77 Di-n-octyl phthalate (ccc)	149	12.585	12.584	(0.951)	1434073	72.2436	76.0
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1497139	71.7562	75.5
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.979)	1820010	85.4239	89.9
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.997)	1391823	80.0453	84.2
81 Indeno(1,2,3-cd)pyrene	276	14.241	14.241	(1.076)	1462896	75.9373	79.9
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1211409	75.0252	79.0
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.098)	1247445	76.5593	80.6

Data File: /chem/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h351ac.d
Lab Smp Id: H2H351AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2894-R1-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	70528	13.89
2 Naphthalene-d8	196946	98473	393892	216854	10.11
3 Acenaphthene-d10	140395	70198	280790	157331	12.06
4 Phenanthrene-d10	245474	122737	490948	273615	11.46
5 Chrysene-d12	253631	126816	507262	288204	13.63
6 Perylene-d12	225613	112806	451226	271510	20.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.23	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/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H351AC
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2894-R1-SCRUBBER
Operator: 60841
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	105	86.6	82.28	35-150
14 Pyridine	105	73.2	69.54	35-150
15 Phenol (ccc)	105	77.5	73.67	59-117
16 Aniline	105	59.8	56.76	35-150
17 Bis(2-chloroethyl)	105	72.6	69.02	35-150
18 2-Chlorophenol	105	74.4	70.64	63-114
19 1,3-Dichlorobenzen	105	77.6	73.69	35-150
20 1,4-Dichlorobenzen	105	76.8	72.95	65-111
21 Benzyl alcohol	105	77.1	73.21	35-150
22 1,2-Dichlorobenzen	105	77.6	73.70	35-150
23 2-Methylphenol	105	71.9	68.33	35-150
24 2,2'-Oxybis(1-Chlo	105	67.7	64.31	35-150
25 4-Methylphenol	210	153	72.53	35-150
26 3&4 Methylphenol	210	153	72.53	35-150
27 N-Nitroso-di-n-pro	105	74.5	70.77	62-114
28 Hexachloroethane	105	71.0	67.47	35-150
29 Nitrobenzene	105	92.6	88.03	35-150
30 Isophorone	105	79.0	75.01	35-150
31 2-Nitrophenol (ccc	105	90.1	85.60	35-150
32 2,4-Dimethyphenol	105	37.4	35.51	35-150
33 Bis(2-chloroethoxy	105	75.8	72.06	35-150
34 Benzoic acid	105	68.7	65.24	35-150
35 2,4-Dichlorophenol	105	90.3	85.79	35-150
36 1,2,4-Trichloroben	105	94.8	90.11	66-113
37 Naphthalene	105	80.4	76.35	60-100
38 4-Chloroaniline	105	47.4	44.99	35-150
39 Hexachlorobutadien	105	79.0	75.04	35-150
40 4-Chloro-3-methylp	105	82.6	78.44	71-118
41 2-Methylnaphthalen	105	95.5	90.71	35-150
42 Hexachlorocyclopen	105	44.1	41.87	35-150
43 2,4,6-Trichlorophe	105	86.8	82.42	35-150
44 2,4,5-Trichlorphen	105	87.1	82.77	35-150
45 2-Chloronaphthalen	105	82.2	78.14	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	105	72.2	68.61	35-150
47 Acenaphthylene	105	85.9	81.63	60-106
48 Dimethyl phthalate	105	85.1	80.88	35-150
49 2,6-Dinitrotoluene	105	90.8	86.30	35-150
50 3-Nitroaniline	105	57.3	54.44	35-150
51 Acenaphthene (ccc)	105	85.3	81.06	65-107
52 2,4-Dinitrophenol	105	94.9	90.17	35-150
53 Dibenzofuran	105	89.4	84.92	35-150
54 4-Nitrophenol ##sp	105	75.1	71.36	61-128
55 2,4-Dinitrotoluene	105	90.0	85.47	72-131
56 Fluorene	105	89.6	85.10	60-113
57 4-Chlorophenyl phe	105	95.9	91.13	35-150
58 Diethyl phthalate	105	78.6	74.63	35-150
59 4-Nitroaniline	105	51.5	48.96	35-150
60 4,6-Dinitro-2-meth	105	94.5	89.75	35-150
61 N-Ndpa / diphenyla	105	93.6	88.90	35-150
62 1,2-Diphenylhydraz	105	76.4	72.57	35-150
63 4-Bromophenyl phen	105	103	97.76	35-150
64 Hexachlorobenzene	105	82.5	78.37	35-150
65 Pentachlorophenol	105	87.0	82.66	71-122
66 Phenanthrene	105	90.6	86.07	65-108
67 Anthracene	105	87.3	82.91	67-114
68 Carbazole	105	85.3	81.00	35-150
69 Di-n-butyl phthala	105	81.8	77.73	35-150
70 Fluoranthene (ccc)	105	98.0	93.10	65-115
71 Pyrene	105	98.6	93.66	67-114
72 Butyl benzyl phtha	105	76.2	72.40	35-150
73 Benzo(a)Anthracene	105	89.6	85.12	70-114
74 3,3'-Dichlorobenzi	105	45.0	42.72	35-150
75 Chrysene	105	85.9	81.61	68-111
76 Bis(2-ethylhexyl)	105	84.0	79.79	35-150
77 Di-n-octyl phthala	105	76.0	72.24	35-150
78 Benzo(b)fluoranthe	105	75.5	71.76	60-120
79 Benzo(k)fluoranthe	105	89.9	85.42	61-119
80 Benzo(a)pyrene (cc	105	84.2	80.05	67-111
81 Indeno(1,2,3-cd)py	105	79.9	75.94	67-120
82 Dibenz(a,h)anthrac	105	79.0	75.03	71-120
83 Benzo(g,h,i)peryle	105	80.6	76.56	63-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.9	48.8	61.87	36-98
$ 8 Phenol-d5	78.9	56.2	71.16	49-109

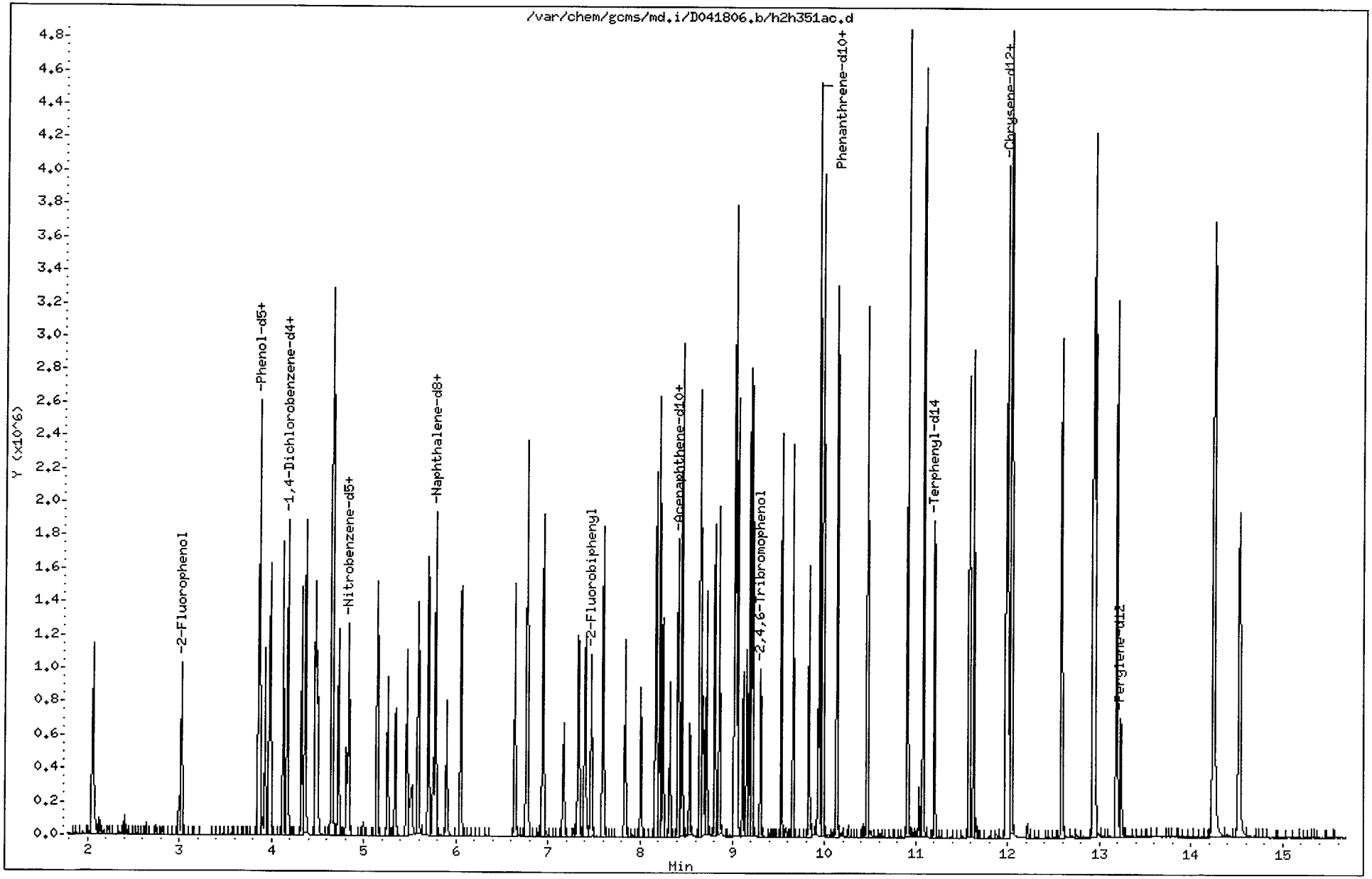
Data File: /chem/gcms/md.i/D041806.b/h2h351ac.d
Report Date: 18-Apr-2006 16:42

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	52.6	40.2	76.44	57-120
$ 10 2-Fluorobiphenyl	52.6	45.7	86.78	56-118
$ 11 2,4,6-Tribromophen	78.9	63.5	80.44	55-134
$ 12 Terphenyl-d14	52.6	40.7	77.39	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h351ac.d
Date : 18-APR-2006 16:27
Client ID: G-2894-R1-SCRUBBER
Sample Info: H2H351AC,,3,,,MS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h351ad.d
Lab Smp Id: H2H351AD Client Smp ID: G-2894-R1-SCRUBBER
Inj Date : 18-APR-2006 16:50
Operator : 60841 Inst ID: md.i
Smp Info : H2H351AD,,3,,,MSD,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	950.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	61735	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	198305	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	142151	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	244884	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	254042	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	239261	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	168148	38.9477	41.0
$ 8 Phenol-d5	99	3.859	3.859	(0.928)	242111	46.4908	48.9
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	142434	31.8636	33.5
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	375304	40.0483	42.2
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	96319	62.0295	65.3
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	455352	36.8519	38.8
13 N-Nitrosodimethylamine	74	2.050	2.050	(0.493)	146579	71.1361	74.9
14 Pyridine	79	2.067	2.067	(0.497)	242068	58.7533	61.8

Data File: /chem/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.931)	356450	64.7604	68.2
16 Aniline	93	3.871	3.877	(0.931)	289172	47.0473	49.5
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.945)	233035	60.5007	63.7
18 2-Chlorophenol	128	3.988	3.988	(0.959)	255546	62.4476	65.7(R)
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.992)	295539	63.0676	66.4
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.004)	299583	63.2849	66.6(R)
21 Benzyl alcohol	108	4.329	4.323	(1.041)	188270	68.9749	72.6
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.051)	285275	62.8781	66.2
23 2-Methylphenol	108	4.476	4.476	(1.076)	245362	62.7512	66.0
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.082)	371311	56.2491	59.2
25 4-Methylphenol	108	4.652	4.647	(1.119)	545074	134.097	141
26 3&4 Methylphenol	108	4.652	4.647	(1.119)	545074	134.097	141
27 N-Nitroso-di-n-propylamine###	70	4.658	4.658	(1.120)	204192	67.3198	70.9
28 Hexachloroethane	117	4.723	4.723	(1.136)	108458	58.9104	62.0
29 Nitrobenzene	77	4.835	4.835	(0.841)	311704	71.9204	75.7
30 Isophorone	82	5.146	5.146	(0.895)	561497	69.7749	73.4
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	151763	77.2258	81.3
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	162178	37.2083	39.2
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	297505	64.2876	67.7
34 Benzoic acid	122	5.528	5.510	(0.961)	153335	68.0754	71.6
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	266916	76.9733	81.0
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	292497	75.7798	79.8
37 Naphthalene	128	5.781	5.781	(1.005)	782510	67.3875	70.9
38 4-Chloroaniline	127	5.898	5.898	(1.026)	229005	45.7515	48.2
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	178735	64.1770	67.6
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	287820	79.0738	83.2
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	612059	82.5698	86.9
42 Hexachlorocyclopentadiene####	237	7.167	7.173	(0.852)	157408	49.3339	51.9
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	240854	82.9164	87.3
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	273866	85.2581	89.7
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	642774	75.1919	79.1
46 2-Nitroaniline	65	7.837	7.831	(0.932)	196697	72.3105	76.1
47 Acenaphthylene	152	8.213	8.213	(0.976)	1085121	80.8801	85.1
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	820714	83.4468	87.8
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	190038	90.3917	95.1
50 3-Nitroaniline	138	8.413	8.413	(1.000)	149485	59.4205	62.5
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	660798	82.0259	86.3
52 2,4-Dinitrophenol ##spcc##	184	8.542	8.536	(1.015)	102322	94.5823	99.6
53 Dibenzofuran	168	8.654	8.648	(1.029)	1032749	85.9313	90.4
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	111165	70.8506	74.6
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	257182	90.8087	95.6
56 Fluorene	166	9.036	9.036	(1.074)	870115	86.8737	91.4
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	458637	92.0521	96.9
58 Diethyl phthalate	149	9.024	9.024	(1.073)	755796	78.0786	82.2
59 4-Nitroaniline	138	9.118	9.118	(1.084)	136286	53.5669	56.4
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	148545	96.4127	101
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	593680	92.6895	97.6

Data File: /chem/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	745304	75.0291	79.0
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	271279	99.5448	105
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	282761	82.9957	87.4
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	189651	85.9830	90.5
66 Phenanthrene	178	9.946	9.946	(1.002)	1318569	89.2975	94.0
67 Anthracene	178	9.987	9.982	(1.006)	1279740	86.6342	91.2
68 Carbazole	167	10.134	10.134	(1.021)	1164645	83.6821	88.1
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1316147	83.3911	87.8
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1566365	98.2090	103
71 Pyrene	202	11.086	11.080	(0.923)	1570601	96.6631	102
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	562537	77.2568	81.3
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1502057	90.2991	95.0
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	283598	45.0370	47.4
75 Chrysene	228	12.032	12.026	(1.002)	1343210	84.3321	88.8
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	774282	83.6732	88.1
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	1330445	76.0569	80.0
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1309745	71.2357	75.0
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1712445	91.2087	96.0
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.996)	1259349	82.1886	86.5
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1256446	74.0114	77.9
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1060562	74.5360	78.4
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.097)	1111295	77.3961	81.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h351ad.d
Lab Smp Id: H2H351AD
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2894-R1-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	61735	-0.31
2 Naphthalene-d8	196946	98473	393892	198305	0.69
3 Acenaphthene-d10	140395	70198	280790	142151	1.25
4 Phenanthrene-d10	245474	122737	490948	244884	-0.24
5 Chrysene-d12	253631	126816	507262	254042	0.16
6 Perylene-d12	225613	112806	451226	239261	6.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H351AD
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2894-R1-SCRUBBER
Operator: 60841
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	105	74.9	71.14	35-150
14 Pyridine	105	61.8	58.75	35-150
15 Phenol (ccc)	105	68.2	64.76	59-117
16 Aniline	105	49.5	47.05	35-150
17 Bis(2-chloroethyl)	105	63.7	60.50	35-150
18 2-Chlorophenol	105	65.7	62.45*	63-114
19 1,3-Dichlorobenzen	105	66.4	63.07	35-150
20 1,4-Dichlorobenzen	105	66.6	63.28*	65-111
21 Benzyl alcohol	105	72.6	68.97	35-150
22 1,2-Dichlorobenzen	105	66.2	62.88	35-150
23 2-Methylphenol	105	66.0	62.75	35-150
24 2,2'-Oxybis(1-Chlo	105	59.2	56.25	35-150
25 4-Methylphenol	210	141	67.05	35-150
26 3&4 Methylphenol	210	141	67.05	35-150
27 N-Nitroso-di-n-pro	105	70.9	67.32	62-114
28 Hexachloroethane	105	62.0	58.91	35-150
29 Nitrobenzene	105	75.7	71.92	35-150
30 Isophorone	105	73.4	69.77	35-150
31 2-Nitrophenol (ccc	105	81.3	77.23	35-150
32 2,4-Dimethyphenol	105	39.2	37.21	35-150
33 Bis(2-chloroethoxy	105	67.7	64.29	35-150
34 Benzoic acid	105	71.6	68.08	35-150
35 2,4-Dichlorophenol	105	81.0	76.97	35-150
36 1,2,4-Trichloroben	105	79.8	75.78	66-113
37 Naphthalene	105	70.9	67.39	60-100
38 4-Chloroaniline	105	48.2	45.75	35-150
39 Hexachlorobutadien	105	67.6	64.18	35-150
40 4-Chloro-3-methylp	105	83.2	79.07	71-118
41 2-Methylnaphthalen	105	86.9	82.57	35-150
42 Hexachlorocyclopen	105	51.9	49.33	35-150
43 2,4,6-Trichlorophe	105	87.3	82.92	35-150
44 2,4,5-Trichlorphen	105	89.7	85.26	35-150
45 2-Chloronaphthalen	105	79.1	75.19	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	105	76.1	72.31	35-150
47 Acenaphthylene	105	85.1	80.88	60-106
48 Dimethyl phthalate	105	87.8	83.45	35-150
49 2,6-Dinitrotoluene	105	95.1	90.39	35-150
50 3-Nitroaniline	105	62.5	59.42	35-150
51 Acenaphthene (ccc)	105	86.3	82.03	65-107
52 2,4-Dinitrophenol	105	99.6	94.58	35-150
53 Dibenzofuran	105	90.4	85.93	35-150
54 4-Nitrophenol ##sp	105	74.6	70.85	61-128
55 2,4-Dinitrotoluene	105	95.6	90.81	72-131
56 Fluorene	105	91.4	86.87	60-113
57 4-Chlorophenyl phe	105	96.9	92.05	35-150
58 Diethyl phthalate	105	82.2	78.08	35-150
59 4-Nitroaniline	105	56.4	53.57	35-150
60 4,6-Dinitro-2-meth	105	101	96.41	35-150
61 N-Ndpa / diphenyla	105	97.6	92.69	35-150
62 1,2-Diphenylhydraz	105	79.0	75.03	35-150
63 4-Bromophenyl phen	105	105	99.54	35-150
64 Hexachlorobenzene	105	87.4	83.00	35-150
65 Pentachlorophenol	105	90.5	85.98	71-122
66 Phenanthrene	105	94.0	89.30	65-108
67 Anthracene	105	91.2	86.63	67-114
68 Carbazole	105	88.1	83.68	35-150
69 Di-n-butyl phthala	105	87.8	83.39	35-150
70 Fluoranthene (ccc)	105	103	98.21	65-115
71 Pyrene	105	102	96.66	67-114
72 Butyl benzyl phtha	105	81.3	77.26	35-150
73 Benzo(a)Anthracene	105	95.0	90.30	70-114
74 3,3'-Dichlorobenzi	105	47.4	45.04	35-150
75 Chrysene	105	88.8	84.33	68-111
76 Bis(2-ethylhexyl)	105	88.1	83.67	35-150
77 Di-n-octyl phthala	105	80.0	76.06	35-150
78 Benzo(b)fluoranthe	105	75.0	71.24	60-120
79 Benzo(k)fluoranthe	105	96.0	91.21	61-119
80 Benzo(a)pyrene (cc	105	86.5	82.19	67-111
81 Indeno(1,2,3-cd)py	105	77.9	74.01	67-120
82 Dibenz(a,h)anthrac	105	78.4	74.54	71-120
83 Benzo(g,h,i)peryle	105	81.5	77.40	63-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.9	41.0	51.93	36-98
$ 8 Phenol-d5	78.9	48.9	61.99	49-109

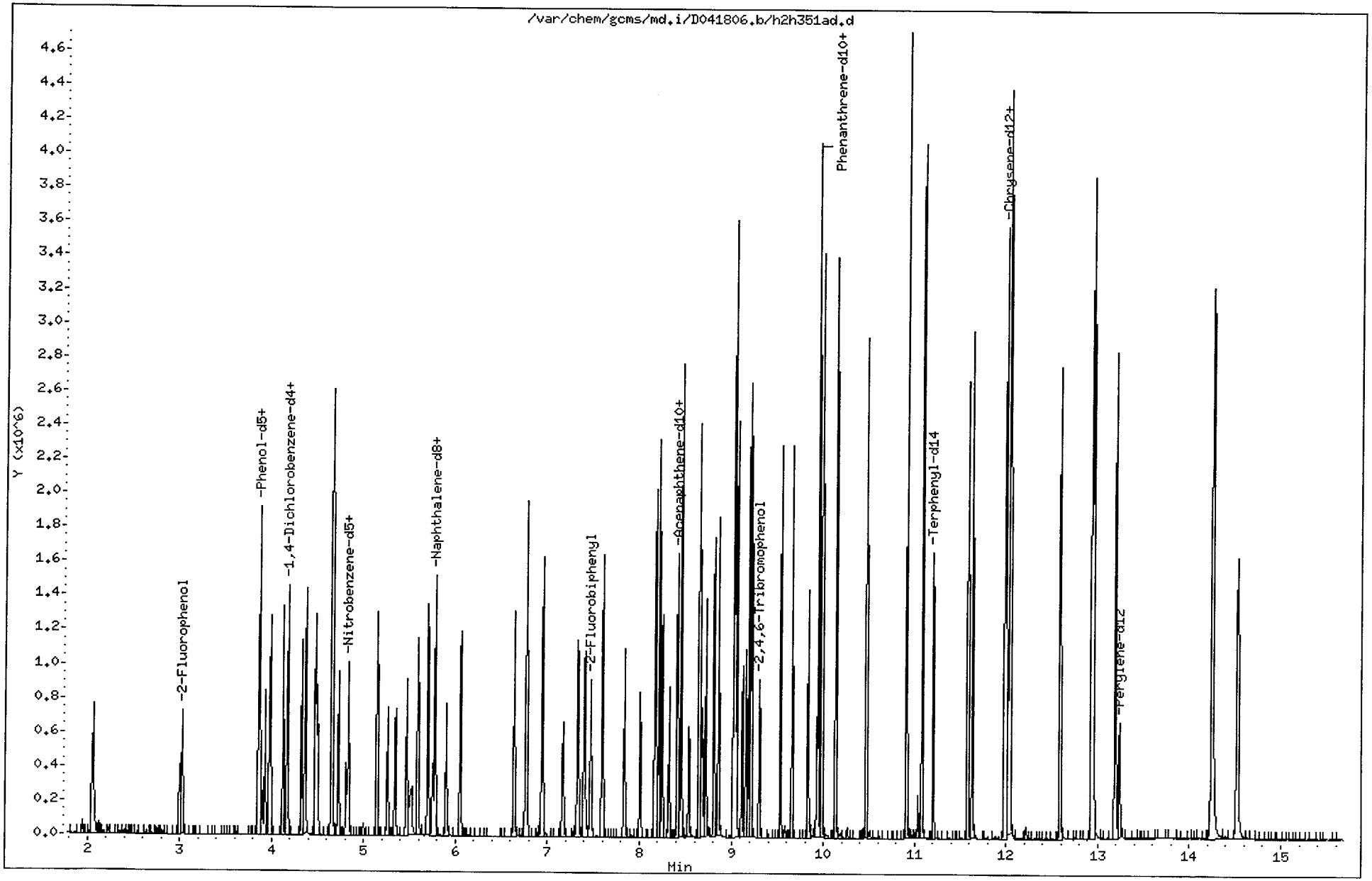
Data File: /chem/gcms/md.i/D041806.b/h2h351ad.d
Report Date: 18-Apr-2006 17:07

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	52.6	33.5	63.73	57-120
$ 10 2-Fluorobiphenyl	52.6	42.2	80.10	56-118
$ 11 2,4,6-Tribromophen	78.9	65.3	82.71	55-134
$ 12 Terphenyl-d14	52.6	38.8	73.70	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h351ad.d
Date : 18-APR-2006 16:50
Client ID: G-2894-R1-SCRUBBER
Sample Info: H2H351AD,,3,,,MSD,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246
MS Lot-Sample #: H6D030246-003
Date Sampled...: 03/28/06
Prep Date.....: 04/04/06
Prep Batch #...: 6094076
Dilution Factor: 1

Work Order #...: H2H371AC-MS
H2H371AD-MSD
Date Received..: 04/02/06
Analysis Date..: 04/18/06

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**85**	**(65 - 107)**			**SW846 8270C**
	85	**(65 - 107)**	**0.0**	**(0-26)**	**SW846 8270C**
Acenaphthylene	83	(62 - 108)			SW846 8270C
	85	(62 - 108)	1.9	(0-30)	SW846 8270C
Aniline	52	(25 - 105)			SW846 8270C
	54	(25 - 105)	4.7	(0-39)	SW846 8270C
Anthracene	90	(64 - 115)			SW846 8270C
	90	(64 - 115)	0.53	(0-21)	SW846 8270C
Benzo(b)fluoranthene	91	(53 - 127)			SW846 8270C
	90	(53 - 127)	0.63	(0-45)	SW846 8270C
Benzo(k)fluoranthene	82	(55 - 121)			SW846 8270C
	82	(55 - 121)	0.35	(0-48)	SW846 8270C
Benzoic acid	65	(20 - 141)			SW846 8270C
	67	(20 - 141)	2.8	(0-49)	SW846 8270C
Benzo(ghi)perylene	86	(56 - 123)			SW846 8270C
	85	(56 - 123)	2.0	(0-31)	SW846 8270C
Benzo(a)pyrene	86	(56 - 112)			SW846 8270C
	86	(56 - 112)	0.11	(0-32)	SW846 8270C
Benzyl alcohol	75	(68 - 122)			SW846 8270C
	76	(68 - 122)	0.76	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	72	(64 - 108)			SW846 8270C
	72	(64 - 108)	0.40	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	68	(63 - 113)			SW846 8270C
	72	(63 - 113)	4.9	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	85	(62 - 138)			SW846 8270C
	85	(62 - 138)	0.45	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	101	(78 - 136)			SW846 8270C
	103	(78 - 136)	1.9	(0-23)	SW846 8270C
Butyl benzyl phthalate	78	(67 - 123)			SW846 8270C
	80	(67 - 123)	1.6	(0-27)	SW846 8270C
Carbazole	86	(62 - 109)			SW846 8270C
	86	(62 - 109)	0.11	(0-21)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	40	(24 - 90)			SW846 8270C
	43	(24 - 90)	9.0	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**80**	**(66 - 130)**			**SW846 8270C**
	82	**(66 - 130)**	**3.0**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	78	(70 - 109)			SW846 8270C
	79	(70 - 109)	1.1	(0-28)	SW846 8270C
2-Chlorophenol	**71**	**(59 - 118)**			**SW846 8270C**
	74	**(59 - 118)**	**3.4**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	95	(71 - 114)			SW846 8270C
	95	(71 - 114)	0.50	(0-23)	SW846 8270C
Chrysene	92	(62 - 114)			SW846 8270C
	94	(62 - 114)	1.6	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	84	(61 - 129)			SW846 8270C
	85	(61 - 129)	1.1	(0-28)	SW846 8270C
Dibenzofuran	88	(70 - 111)			SW846 8270C
	89	(70 - 111)	0.97	(0-25)	SW846 8270C
Di-n-butyl phthalate	83	(67 - 126)			SW846 8270C
	83	(67 - 126)	0.11	(0-20)	SW846 8270C
1,2-Dichlorobenzene	71	(58 - 114)			SW846 8270C
	74	(58 - 114)	4.8	(0-35)	SW846 8270C
1,3-Dichlorobenzene	70	(57 - 112)			SW846 8270C
	74	(57 - 112)	4.7	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**71**	**(58 - 113)**			**SW846 8270C**
	73	**(58 - 113)**	**3.7**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	43	(20 - 100)			SW846 8270C
	42	(20 - 100)	0.45	(0-50)	SW846 8270C
2,4-Dichlorophenol	84	(65 - 121)			SW846 8270C
	86	(65 - 121)	1.8	(0-36)	SW846 8270C
Diethyl phthalate	82	(60 - 116)			SW846 8270C
	81	(60 - 116)	0.23	(0-21)	SW846 8270C
2,4-Dimethylphenol	47	(30 - 107)			SW846 8270C
	53	(30 - 107)	12	(0-41)	SW846 8270C
Dimethyl phthalate	86	(68 - 114)			SW846 8270C
	86	(68 - 114)	0.0	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	99	(66 - 147)			SW846 8270C
	99	(66 - 147)	0.0	(0-44)	SW846 8270C
2,4-Dinitrophenol	99	(30 - 150)			SW846 8270C
	96	(30 - 150)	3.0	(0-50)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**91**	**(69 - 131)**			**SW846 8270C**
	93	**(69 - 131)**	**1.7**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	92	(71 - 142)			SW846 8270C
	92	(71 - 142)	0.20	(0-30)	SW846 8270C
Di-n-octyl phthalate	79	(67 - 127)			SW846 8270C
	76	(67 - 127)	2.8	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	77	(61 - 111)			SW846 8270C
	77	(61 - 111)	0.49	(0-32)	SW846 8270C
Fluoranthene	101	(60 - 119)			SW846 8270C
	101	(60 - 119)	0.0	(0-23)	SW846 8270C
Fluorene	91	(60 - 111)			SW846 8270C
	88	(60 - 111)	2.9	(0-24)	SW846 8270C
Hexachlorobenzene	83	(65 - 120)			SW846 8270C
	84	(65 - 120)	0.92	(0-22)	SW846 8270C
Hexachlorobutadiene	74	(51 - 110)			SW846 8270C
	74	(51 - 110)	0.13	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	45	(20 - 92)			SW846 8270C
	51	(20 - 92)	12	(0-50)	SW846 8270C
Hexachloroethane	67	(57 - 122)			SW846 8270C
	70	(57 - 122)	4.4	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	82	(56 - 124)			SW846 8270C
	83	(56 - 124)	1.5	(0-29)	SW846 8270C
Isophorone	74	(68 - 110)			SW846 8270C
	75	(68 - 110)	1.2	(0-30)	SW846 8270C
2-Methylnaphthalene	89	(62 - 110)			SW846 8270C
	90	(62 - 110)	1.3	(0-29)	SW846 8270C
2-Methylphenol	70	(58 - 115)			SW846 8270C
	74	(58 - 115)	6.5	(0-38)	SW846 8270C
Naphthalene	75	(61 - 108)			SW846 8270C
	77	(61 - 108)	2.2	(0-35)	SW846 8270C
2-Nitroaniline	75	(56 - 121)			SW846 8270C
	74	(56 - 121)	2.1	(0-25)	SW846 8270C
3-Nitroaniline	58	(42 - 104)			SW846 8270C
	60	(42 - 104)	4.1	(0-32)	SW846 8270C
4-Nitroaniline	61	(48 - 112)			SW846 8270C
	60	(48 - 112)	0.94	(0-30)	SW846 8270C
Nitrobenzene	81	(67 - 118)			SW846 8270C
	82	(67 - 118)	0.82	(0-35)	SW846 8270C
2-Nitrophenol	84	(60 - 133)			SW846 8270C
	85	(60 - 133)	1.1	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**77**	**(61 - 142)**			**SW846 8270C**
	76	**(61 - 142)**	**2.3**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	80	(56 - 121)			SW846 8270C
	83	(56 - 121)	4.1	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	94	(59 - 128)			SW846 8270C
	93	(59 - 128)	0.92	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**71**	**(60 - 117)**			**SW846 8270C**
	75	**(60 - 117)**	**4.3**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**88**	**(71 - 135)**			**SW846 8270C**
	89	**(71 - 135)**	**0.65**	**(0-37)**	**SW846 8270C**
Phenanthrene	93	(64 - 108)			SW846 8270C
	92	(64 - 108)	0.41	(0-21)	SW846 8270C
Phenol	**74**	**(55 - 123)**			**SW846 8270C**
	76	**(55 - 123)**	**2.8**	**(0-41)**	**SW846 8270C**
Pyrene	**100**	**(63 - 114)**			**SW846 8270C**
	102	**(63 - 114)**	**1.9**	**(0-27)**	**SW846 8270C**
Pyridine	61	(37 - 107)			SW846 8270C
	61	(37 - 107)	0.78	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**87**	**(63 - 113)**			**SW846 8270C**
	87	**(63 - 113)**	**0.55**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	88	(72 - 120)			SW846 8270C
	87	(72 - 120)	0.76	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	86	(69 - 122)			SW846 8270C
	87	(69 - 122)	1.8	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(36 - 98)
	61	(36 - 98)
Phenol-d5	72	(49 - 109)
	72	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	73	(57 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	88	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	87	(55 - 134)
	84	(55 - 134)
Terphenyl-d14	93	(33 - 142)
	89	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**104**	**88.2**	**ug/L**	**85**		**SW846 8270C**
	ND	**104**	**88.2**	**ug/L**	**85**	**0.0**	**SW846 8270C**
Acenaphthylene	ND	104	86.5	ug/L	83		SW846 8270C
	ND	104	88.2	ug/L	85	1.9	SW846 8270C
Aniline	ND	104	53.9	ug/L	52		SW846 8270C
	ND	104	56.5	ug/L	54	4.7	SW846 8270C
Anthracene	ND	104	93.2	ug/L	90		SW846 8270C
	ND	104	93.7	ug/L	90	0.53	SW846 8270C
Benzo(b)fluoranthene	ND	104	94.2	ug/L	91		SW846 8270C
	ND	104	93.6	ug/L	90	0.63	SW846 8270C
Benzo(k)fluoranthene	ND	104	85.2	ug/L	82		SW846 8270C
	ND	104	84.9	ug/L	82	0.35	SW846 8270C
Benzoic acid	ND	104	68.1	ug/L	65		SW846 8270C
	ND	104	70.0	ug/L	67	2.8	SW846 8270C
Benzo(ghi)perylene	ND	104	89.7	ug/L	86		SW846 8270C
	ND	104	87.9	ug/L	85	2.0	SW846 8270C
Benzo(a)pyrene	ND	104	89.5	ug/L	86		SW846 8270C
	ND	104	89.6	ug/L	86	0.11	SW846 8270C
Benzyl alcohol	ND	104	78.5	ug/L	75		SW846 8270C
	ND	104	79.1	ug/L	76	0.76	SW846 8270C
bis(2-Chloroethoxy) methane	ND	104	74.4	ug/L	72		SW846 8270C
	ND	104	74.7	ug/L	72	0.40	SW846 8270C
bis(2-Chloroethyl)-ether	ND	104	71.2	ug/L	68		SW846 8270C
	ND	104	74.8	ug/L	72	4.9	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	104	88.2	ug/L	85		SW846 8270C
	ND	104	88.6	ug/L	85	0.45	SW846 8270C
4-Bromophenyl phenyl ether	ND	104	105	ug/L	101		SW846 8270C
	ND	104	107	ug/L	103	1.9	SW846 8270C
Butyl benzyl phthalate	ND	104	81.4	ug/L	78		SW846 8270C
	ND	104	82.7	ug/L	80	1.6	SW846 8270C
Carbazole	ND	104	89.3	ug/L	86		SW846 8270C
	ND	104	89.4	ug/L	86	0.11	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	104	41.1	ug/L	40		SW846 8270C
	ND	104	45.0	ug/L	43	9.0	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**104**	**83.3**	**ug/L**	**80**		**SW846 8270C**
	ND	**104**	**85.8**	**ug/L**	**82**	**3.0**	**SW846 8270C**
2-Chloronaphthalene	ND	104	81.4	ug/L	78		SW846 8270C
	ND	104	82.3	ug/L	79	1.1	SW846 8270C
2-Chlorophenol	**ND**	**104**	**74.2**	**ug/L**	**71**		**SW846 8270C**
	ND	**104**	**76.8**	**ug/L**	**74**	**3.4**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	104	99.0	ug/L	95		SW846 8270C
	ND	104	98.5	ug/L	95	0.50	SW846 8270C
Chrysene	ND	104	96.0	ug/L	92		SW846 8270C
	ND	104	97.6	ug/L	94	1.6	SW846 8270C
Dibenz(a,h)anthracene	ND	104	87.4	ug/L	84		SW846 8270C
	ND	104	88.4	ug/L	85	1.1	SW846 8270C
Dibenzofuran	ND	104	91.7	ug/L	88		SW846 8270C
	ND	104	92.6	ug/L	89	0.97	SW846 8270C
Di-n-butyl phthalate	ND	104	86.7	ug/L	83		SW846 8270C
	ND	104	86.6	ug/L	83	0.11	SW846 8270C
1,2-Dichlorobenzene	ND	104	73.8	ug/L	71		SW846 8270C
	ND	104	77.4	ug/L	74	4.8	SW846 8270C
1,3-Dichlorobenzene	ND	104	73.0	ug/L	70		SW846 8270C
	ND	104	76.5	ug/L	74	4.7	SW846 8270C
1,4-Dichlorobenzene	**ND**	**104**	**73.5**	**ug/L**	**71**		**SW846 8270C**
	ND	**104**	**76.3**	**ug/L**	**73**	**3.7**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	104	44.4	ug/L	43		SW846 8270C
	ND	104	44.2	ug/L	42	0.45	SW846 8270C
2,4-Dichlorophenol	ND	104	87.8	ug/L	84		SW846 8270C
	ND	104	89.4	ug/L	86	1.8	SW846 8270C
Diethyl phthalate	ND	104	84.9	ug/L	82		SW846 8270C
	ND	104	84.7	ug/L	81	0.23	SW846 8270C
2,4-Dimethylphenol	ND	104	49.3	ug/L	47		SW846 8270C
	ND	104	55.4	ug/L	53	12	SW846 8270C
Dimethyl phthalate	ND	104	89.8	ug/L	86		SW846 8270C
	ND	104	89.8	ug/L	86	0.0	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	104	103	ug/L	99		SW846 8270C
	ND	104	103	ug/L	99	0.0	SW846 8270C
2,4-Dinitrophenol	ND	104	103	ug/L	99		SW846 8270C
	ND	104	100	ug/L	96	3.0	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**104**	**95.1**	**ug/L**	**91**		**SW846 8270C**
	ND	**104**	**96.7**	**ug/L**	**93**	**1.7**	**SW846 8270C**
2,6-Dinitrotoluene	ND	104	95.8	ug/L	92		SW846 8270C
	ND	104	96.0	ug/L	92	0.20	SW846 8270C
Di-n-octyl phthalate	ND	104	81.8	ug/L	79		SW846 8270C
	ND	104	79.5	ug/L	76	2.8	SW846 8270C
1,2-Diphenylhydrazine	ND	104	80.1	ug/L	77		SW846 8270C
	ND	104	80.5	ug/L	77	0.49	SW846 8270C
Fluoranthene	ND	104	105	ug/L	101		SW846 8270C
	ND	104	105	ug/L	101	0.0	SW846 8270C
Fluorene	ND	104	94.2	ug/L	91		SW846 8270C
	ND	104	91.5	ug/L	88	2.9	SW846 8270C
Hexachlorobenzene	ND	104	86.6	ug/L	83		SW846 8270C
	ND	104	87.4	ug/L	84	0.92	SW846 8270C
Hexachlorobutadiene	ND	104	76.6	ug/L	74		SW846 8270C
	ND	104	76.5	ug/L	74	0.13	SW846 8270C
Hexachlorocyclopenta-diene	ND	104	47.0	ug/L	45		SW846 8270C
	ND	104	53.0	ug/L	51	12	SW846 8270C
Hexachloroethane	ND	104	69.2	ug/L	67		SW846 8270C
	ND	104	72.3	ug/L	70	4.4	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	104	85.4	ug/L	82		SW846 8270C
	ND	104	86.7	ug/L	83	1.5	SW846 8270C
Isophorone	ND	104	76.7	ug/L	74		SW846 8270C
	ND	104	77.6	ug/L	75	1.2	SW846 8270C
2-Methylnaphthalene	ND	104	92.1	ug/L	89		SW846 8270C
	ND	104	93.3	ug/L	90	1.3	SW846 8270C
2-Methylphenol	ND	104	72.4	ug/L	70		SW846 8270C
	ND	104	77.3	ug/L	74	6.5	SW846 8270C
Naphthalene	ND	104	78.0	ug/L	75		SW846 8270C
	ND	104	79.7	ug/L	77	2.2	SW846 8270C
2-Nitroaniline	ND	104	78.1	ug/L	75		SW846 8270C
	ND	104	76.5	ug/L	74	2.1	SW846 8270C
3-Nitroaniline	ND	104	60.0	ug/L	58		SW846 8270C
	ND	104	62.5	ug/L	60	4.1	SW846 8270C
4-Nitroaniline	ND	104	63.5	ug/L	61		SW846 8270C
	ND	104	62.9	ug/L	60	0.94	SW846 8270C
Nitrobenzene	ND	104	84.1	ug/L	81		SW846 8270C
	ND	104	84.8	ug/L	82	0.82	SW846 8270C
2-Nitrophenol	ND	104	87.0	ug/L	84		SW846 8270C
	ND	104	88.0	ug/L	85	1.1	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**104**	**80.5**	**ug/L**	**77**		**SW846 8270C**
	ND	**104**	**78.7**	**ug/L**	**76**	**2.3**	**SW846 8270C**
N-Nitrosodimethylamine	ND	104	83.2	ug/L	80		SW846 8270C
	ND	104	86.7	ug/L	83	4.1	SW846 8270C
N-Nitrosodiphenylamine	ND	104	97.5	ug/L	94		SW846 8270C
	ND	104	96.6	ug/L	93	0.92	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**104**	**74.3**	**ug/L**	**71**		**SW846 8270C**
	ND	**104**	**77.6**	**ug/L**	**75**	**4.3**	**SW846 8270C**
Pentachlorophenol	**ND**	**104**	**91.7**	**ug/L**	**88**		**SW846 8270C**
	ND	**104**	**92.3**	**ug/L**	**89**	**0.65**	**SW846 8270C**
Phenanthrene	ND	104	96.4	ug/L	93		SW846 8270C
	ND	104	96.0	ug/L	92	0.41	SW846 8270C
Phenol	**ND**	**104**	**76.5**	**ug/L**	**74**		**SW846 8270C**
	ND	**104**	**78.7**	**ug/L**	**76**	**2.8**	**SW846 8270C**
Pyrene	**ND**	**104**	**104**	**ug/L**	**100**		**SW846 8270C**
	ND	**104**	**106**	**ug/L**	**102**	**1.9**	**SW846 8270C**
Pyridine	ND	104	63.9	ug/L	61		SW846 8270C
	ND	104	63.4	ug/L	61	0.78	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**104**	**90.3**	**ug/L**	**87**		**SW846 8270C**
	ND	**104**	**90.8**	**ug/L**	**87**	**0.55**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	104	91.4	ug/L	88		SW846 8270C
	ND	104	90.7	ug/L	87	0.76	SW846 8270C
2,4,6-Trichloro-phenol	ND	104	89.3	ug/L	86		SW846 8270C
	ND	104	90.9	ug/L	87	1.8	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(36 - 98)
	61	(36 - 98)
Phenol-d5	72	(49 - 109)
	72	(49 - 109)
Nitrobenzene-d5	76	(57 - 120)
	73	(57 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H371AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-003 H2H371AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	88	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	87	(55 - 134)
	84	(55 - 134)
Terphenyl-d14	93	(33 - 142)
	89	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: /chem/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h371ac.d
Lab Smp Id: H2H371AC
Client Smp ID: G-2898-R1-POTW DISC
Inj Date : 18-APR-2006 17:38
Operator : 60841
Inst ID: md.i
Smp Info : H2H371AC,,3,,,MS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek
Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59
Cal File: a9dc098.d
Als bottle: 1
QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	960.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	69299	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	218050	20.0000	
* 3 Acenaphthene-d10	164	8.419	8.413	(1.000)	155344	20.0000	
* 4 Phenanthrene-d10	188	9.929	9.923	(1.000)	271633	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	282714	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	260695	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.726)	223096	46.0349	48.0
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	314657	53.8262	56.1
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	185920	37.8257	39.4
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.887)	450608	44.0003	45.8
$ 11 2,4,6-Tribromophenol	330	9.312	9.306	(0.938)	112754	65.4627	68.2
$ 12 Terphenyl-d14	244	11.210	11.210	(0.933)	635724	46.2315	48.2
13 N-Nitrosodimethylamine	74	2.056	2.050	(0.494)	184853	79.9188	83.2
14 Pyridine	79	2.067	2.067	(0.496)	283843	61.3729	63.9

Data File: /chem/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	453632	73.4208	76.5
16 Aniline	93	3.877	3.877	(0.931)	357299	51.7864	53.9
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	295368	68.3135	71.2
18 2-Chlorophenol	128	3.989	3.988	(0.958)	327275	71.2465	74.2
19 1,3-Dichlorobenzene	146	4.130	4.124	(0.992)	368402	70.0354	73.0
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.003)	375104	70.5894	73.5
21 Benzyl alcohol	108	4.329	4.323	(1.040)	230982	75.3861	78.5
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	361032	70.8902	73.8
23 2-Methylphenol	108	4.476	4.476	(1.075)	304932	69.4738	72.4
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	477341	64.4185	67.1
25 4-Methylphenol	108	4.658	4.647	(1.119)	661001	144.868	151
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	661001	144.868	151
27 N-Nitroso-di-n-propylamine###	70	4.664	4.658	(1.120)	242742	71.2940	74.3
28 Hexachloroethane	117	4.723	4.723	(1.134)	137377	66.4736	69.2
29 Nitrobenzene	77	4.841	4.835	(0.842)	384903	80.7679	84.1
30 Isophorone	82	5.146	5.146	(0.895)	651784	73.6603	76.7
31 2-Nitrophenol (ccc)	139	5.264	5.263	(0.915)	180400	83.4854	87.0
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	226879	47.3389	49.3
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	363219	71.3803	74.4
34 Benzoic acid	122	5.528	5.510	(0.961)	161997	65.4081	68.1
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	321325	84.2729	87.8
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	367818	86.6649	90.3
37 Naphthalene	128	5.781	5.781	(1.005)	956755	74.9321	78.0
38 4-Chloroaniline	127	5.898	5.898	(1.026)	217022	39.4314	41.1
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	225263	73.5596	76.6
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	319923	79.9344	83.3
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	720462	88.3928	92.1
42 Hexachlorocyclopentadiene####	237	7.167	7.173	(0.851)	157404	45.1430	47.0
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.870)	272116	85.7227	89.3
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.879)	307843	87.6963	91.4
45 2-Chloronaphthalene	162	7.596	7.596	(0.902)	729970	78.1400	81.4
46 2-Nitroaniline	65	7.837	7.831	(0.931)	222985	75.0128	78.1
47 Acenaphthylene	152	8.213	8.213	(0.976)	1217676	83.0522	86.5
48 Dimethyl phthalate	163	8.178	8.172	(0.971)	926611	86.2126	89.8
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	211373	92.0013	95.8
50 3-Nitroaniline	138	8.413	8.413	(0.999)	158331	57.5916	60.0
51 Acenaphthene (ccc)	153	8.454	8.454	(1.004)	745520	84.6832	88.2
52 2,4-Dinitrophenol ##spcc##	184	8.542	8.536	(1.015)	118150	99.2774	103
53 Dibenzofuran	168	8.654	8.648	(1.028)	1156806	88.0791	91.7
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.031)	132449	77.2467	80.5
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.036)	282515	91.2818	95.1
56 Fluorene	166	9.036	9.036	(1.073)	989996	90.4484	94.2
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.076)	517478	95.0412	99.0
58 Diethyl phthalate	149	9.024	9.024	(1.072)	862035	81.4907	84.9
59 4-Nitroaniline	138	9.118	9.118	(1.083)	169577	60.9914	63.5
60 4,6-Dinitro-2-methylphenol	198	9.165	9.159	(0.923)	168748	98.7397	103
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.926)	665160	93.6229	97.5

Data File: /chem/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.928)	847075	76.8769	80.1
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.960)	306122	101.269	105
64 Hexachlorobenzene	284	9.659	9.658	(0.973)	314335	83.1776	86.6
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	215291	87.9954	91.7
66 Phenanthrene	178	9.946	9.946	(1.002)	1515232	92.5110	96.4
67 Anthracene	178	9.988	9.982	(1.006)	1465610	89.4465	93.2
68 Carbazole	167	10.140	10.134	(1.021)	1324158	85.7741	89.3
69 Di-n-butyl phthalate	149	10.475	10.475	(1.055)	1457227	83.2377	86.7
70 Fluoranthene (ccc)	202	10.916	10.916	(1.099)	1788955	101.120	105
71 Pyrene	202	11.086	11.080	(0.923)	1808266	100.003	104
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	633511	78.1802	81.4
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1706980	92.2110	96.0
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	298711	42.6259	44.4
75 Chrysene	228	12.032	12.026	(1.002)	1633237	92.1416	96.0
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	871781	84.6550	88.2
77 Di-n-octyl phthalate (ccc)	149	12.585	12.584	(0.951)	1497101	78.5473	81.8
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1811116	90.4057	94.2
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1673037	81.7831	85.2
80 Benzo(a)pyrene (ccc)	252	13.196	13.190	(0.997)	1434482	85.9209	89.5
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1516240	81.9713	85.4
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1301466	83.9462	87.4
83 Benzo(g,h,i)perylene	276	14.529	14.523	(1.098)	1346866	86.0900	89.7

Data File: /chem/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h371ac.d
Lab Smp Id: H2H371AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2898-R1-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	69299	11.91
2 Naphthalene-d8	196946	98473	393892	218050	10.72
3 Acenaphthene-d10	140395	70198	280790	155344	10.65
4 Phenanthrene-d10	245474	122737	490948	271633	10.66
5 Chrysene-d12	253631	126816	507262	282714	11.47
6 Perylene-d12	225613	112806	451226	260695	15.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.42	0.07
4 Phenanthrene-d10	9.92	9.42	10.42	9.93	0.06
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.05

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/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H371AC
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2898-R1-POTW DISC
Operator: 60841
SampleType: MS
Quant Type: ISTD
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	104	83.2	79.92	35-150
14 Pyridine	104	63.9	61.37	35-150
15 Phenol (ccc)	104	76.5	73.42	59-117
16 Aniline	104	53.9	51.79	35-150
17 Bis(2-chloroethyl)	104	71.2	68.31	35-150
18 2-Chlorophenol	104	74.2	71.25	63-114
19 1,3-Dichlorobenzen	104	73.0	70.04	35-150
20 1,4-Dichlorobenzen	104	73.5	70.59	65-111
21 Benzyl alcohol	104	78.5	75.39	35-150
22 1,2-Dichlorobenzen	104	73.8	70.89	35-150
23 2-Methylphenol	104	72.4	69.47	35-150
24 2,2'-Oxybis(1-Chlo	104	67.1	64.42	35-150
25 4-Methylphenol	208	151	72.43	35-150
26 3&4 Methylphenol	208	151	72.43	35-150
27 N-Nitroso-di-n-pro	104	74.3	71.29	62-114
28 Hexachloroethane	104	69.2	66.47	35-150
29 Nitrobenzene	104	84.1	80.77	35-150
30 Isophorone	104	76.7	73.66	35-150
31 2-Nitrophenol (ccc	104	87.0	83.49	35-150
32 2,4-Dimethyphenol	104	49.3	47.34	35-150
33 Bis(2-chloroethoxy	104	74.4	71.38	35-150
34 Benzoic acid	104	68.1	65.41	35-150
35 2,4-Dichlorophenol	104	87.8	84.27	35-150
36 1,2,4-Trichloroben	104	90.3	86.66	66-113
37 Naphthalene	104	78.0	74.93	60-100
38 4-Chloroaniline	104	41.1	39.43	35-150
39 Hexachlorobutadien	104	76.6	73.56	35-150
40 4-Chloro-3-methylp	104	83.3	79.93	71-118
41 2-Methylnaphthalen	104	92.1	88.39	35-150
42 Hexachlorocyclopen	104	47.0	45.14	35-150
43 2,4,6-Trichlorophe	104	89.3	85.72	35-150
44 2,4,5-Trichlorphen	104	91.4	87.70	35-150
45 2-Chloronaphthalen	104	81.4	78.14	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	104	78.1	75.01	35-150
47 Acenaphthylene	104	86.5	83.05	60-106
48 Dimethyl phthalate	104	89.8	86.21	35-150
49 2,6-Dinitrotoluene	104	95.8	92.00	35-150
50 3-Nitroaniline	104	60.0	57.59	35-150
51 Acenaphthene (ccc)	104	88.2	84.68	65-107
52 2,4-Dinitrophenol	104	103	99.28	35-150
53 Dibenzofuran	104	91.7	88.08	35-150
54 4-Nitrophenol ##sp	104	80.5	77.25	61-128
55 2,4-Dinitrotoluene	104	95.1	91.28	72-131
56 Fluorene	104	94.2	90.45	60-113
57 4-Chlorophenyl phe	104	99.0	95.04	35-150
58 Diethyl phthalate	104	84.9	81.49	35-150
59 4-Nitroaniline	104	63.5	60.99	35-150
60 4,6-Dinitro-2-meth	104	103	98.74	35-150
61 N-Ndpa / diphenyla	104	97.5	93.62	35-150
62 1,2-Diphenylhydraz	104	80.1	76.88	35-150
63 4-Bromophenyl phen	104	105	101.27	35-150
64 Hexachlorobenzene	104	86.6	83.18	35-150
65 Pentachlorophenol	104	91.7	88.00	71-122
66 Phenanthrene	104	96.4	92.51	65-108
67 Anthracene	104	93.2	89.45	67-114
68 Carbazole	104	89.3	85.77	35-150
69 Di-n-butyl phthala	104	86.7	83.24	35-150
70 Fluoranthene (ccc)	104	105	101.12	65-115
71 Pyrene	104	104	100.00	67-114
72 Butyl benzyl phtha	104	81.4	78.18	35-150
73 Benzo(a)Anthracene	104	96.0	92.21	70-114
74 3,3'-Dichlorobenzi	104	44.4	42.63	35-150
75 Chrysene	104	96.0	92.14	68-111
76 Bis(2-ethylhexyl)	104	88.2	84.65	35-150
77 Di-n-octyl phthala	104	81.8	78.55	35-150
78 Benzo(b)fluoranthe	104	94.2	90.41	60-120
79 Benzo(k)fluoranthe	104	85.2	81.78	61-119
80 Benzo(a)pyrene (cc	104	89.5	85.92	67-111
81 Indeno(1,2,3-cd)py	104	85.4	81.97	67-120
82 Dibenz(a,h)anthrac	104	87.4	83.95	71-120
83 Benzo(g,h,i)peryle	104	89.7	86.09	63-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.1	48.0	61.38	36-98
$ 8 Phenol-d5	78.1	56.1	71.77	49-109

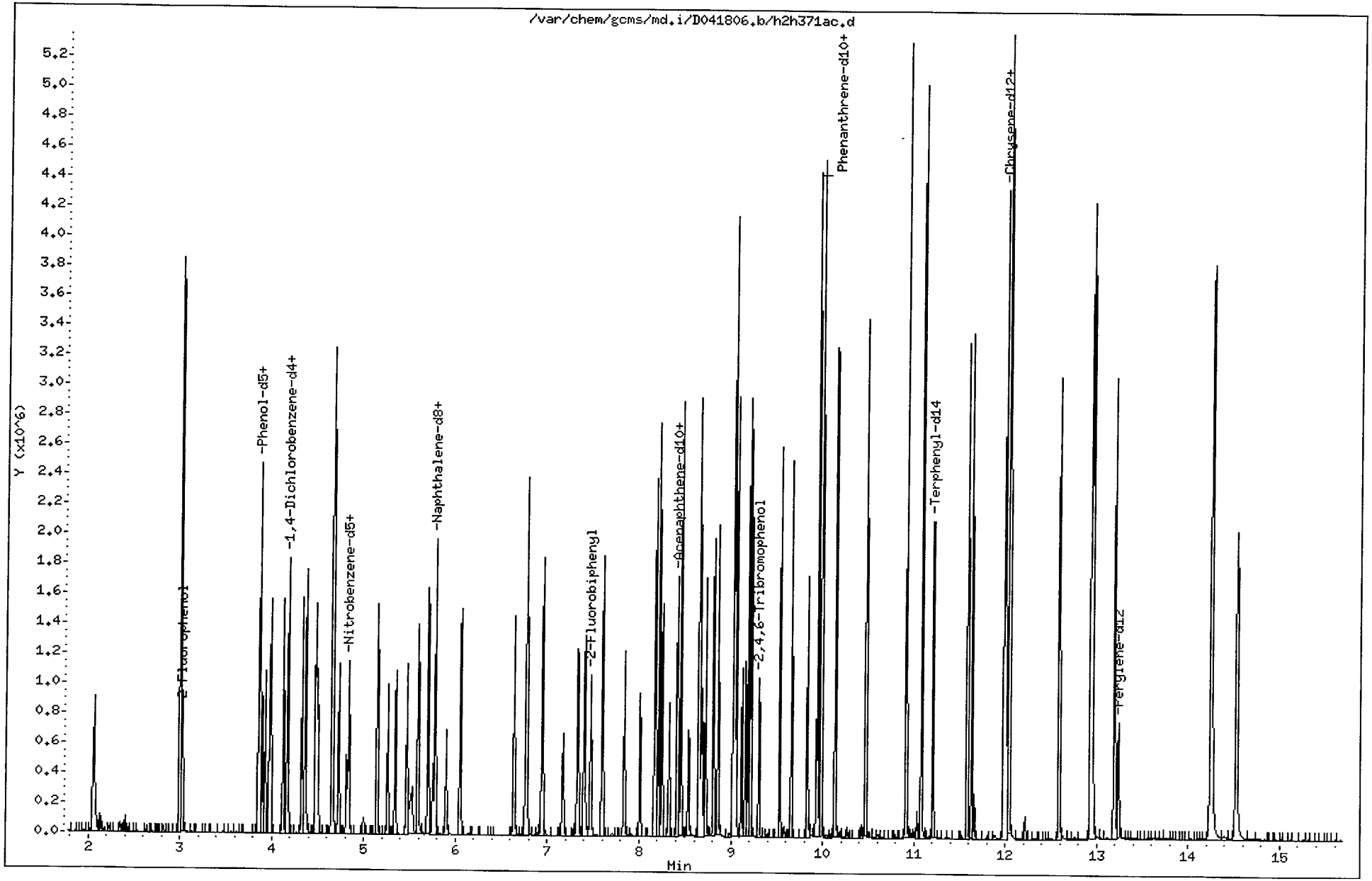
Data File: /chem/gcms/md.i/D041806.b/h2h371ac.d
Report Date: 18-Apr-2006 17:54

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	52.1	39.4	75.65	57-120
$ 10 2-Fluorobiphenyl	52.1	45.8	88.00	56-118
$ 11 2,4,6-Tribromophen	78.1	68.2	87.28	55-134
$ 12 Terphenyl-d14	52.1	48.2	92.46	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h371ac.d
Date : 18-APR-2006 17:38
Client ID: G-2898-R1-POTW DISC
Sample Info: H2H371AC,,3,,,MS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h371ad.d
Lab Smp Id: H2H371AD Client Smp ID: G-2898-R1-POTW DISC
Inj Date : 18-APR-2006 18:01
Operator : 60841 Inst ID: md.i
Smp Info : H2H371AD,,3,,,MSD,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	960.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

04206

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	63274	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	204891	20.0000	
* 3 Acenaphthene-d10	164	8.419	8.413	(1.000)	147188	20.0000	
* 4 Phenanthrene-d10	188	9.929	9.923	(1.000)	256223	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	263221	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	251787	20.0000	
$ 7 2-Fluorophenol	112	3.031	3.025	(0.728)	203992	46.1014	48.0
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	286672	53.7088	55.9
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	168349	36.4505	38.0
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.887)	413983	42.6638	44.4
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.937)	102462	63.0652	65.7
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	567989	44.3647	46.2
13 N-Nitrosodimethylamine	74	2.055	2.050	(0.494)	175717	83.2036	86.7
14 Pyridine	79	2.067	2.067	(0.496)	257006	60.8620	63.4

Data File: /chem/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	CONCENTRATIONS FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	426296	75.5668	78.7
16 Aniline	93	3.877	3.877	(0.931)	341669	54.2367	56.5
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	283573	71.8312	74.8
18 2-Chlorophenol	128	3.988	3.988	(0.958)	309183	73.7176	76.8
19 1,3-Dichlorobenzene	146	4.129	4.124	(0.992)	352638	73.4225	76.5
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.003)	355205	73.2101	76.3
21 Benzyl alcohol	108	4.329	4.323	(1.040)	212549	75.9761	79.1
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	345463	74.2926	77.4
23 2-Methylphenol	108	4.476	4.476	(1.075)	297245	74.1716	77.3
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	449535	66.4431	69.2
25 4-Methylphenol	108	4.652	4.647	(1.117)	633970	152.175	158
26 3&4 Methylphenol	108	4.652	4.647	(1.117)	633970	152.175	158
27 N-Nitroso-di-n-propylamine###	70	4.664	4.658	(1.120)	231459	74.4538	77.6
28 Hexachloroethane	117	4.729	4.723	(1.135)	131014	69.4313	72.3
29 Nitrobenzene	77	4.840	4.835	(0.842)	364614	81.4242	84.8
30 Isophorone	82	5.146	5.146	(0.895)	619812	74.5458	77.6
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	171478	84.4531	88.0
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	239423	53.1647	55.4
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	343083	71.7533	74.7
34 Benzoic acid	122	5.528	5.510	(0.961)	156515	67.2534	70.0
35 2,4-Dichlorophenol (ccc)	162	5.592	5.593	(0.972)	307513	85.8302	89.4
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	347809	87.2136	90.8
37 Naphthalene	128	5.780	5.781	(1.005)	918127	76.5250	79.7
38 4-Chloroaniline	127	5.898	5.898	(1.026)	223188	43.1561	45.0
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	211376	73.4576	76.5
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	309737	82.3597	85.8
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	685944	89.5629	93.3
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.852)	168067	50.8719	53.0
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.870)	262384	87.2367	90.9
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.879)	289728	87.1092	90.7
45 2-Chloronaphthalene	162	7.596	7.596	(0.902)	699376	79.0132	82.3
46 2-Nitroaniline	65	7.837	7.831	(0.931)	206775	73.4138	76.5
47 Acenaphthylene	152	8.213	8.213	(0.976)	1176605	84.6975	88.2
48 Dimethyl phthalate	163	8.178	8.172	(0.971)	878152	86.2310	89.8
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	200554	92.1289	96.0
50 3-Nitroaniline	138	8.413	8.413	(0.999)	156217	59.9710	62.5
51 Acenaphthene (ccc)	153	8.454	8.454	(1.004)	706611	84.7109	88.2
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.014)	108064	96.2384	100
53 Dibenzofuran	168	8.654	8.648	(1.028)	1105959	88.8735	92.6
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.031)	122808	75.5924	78.7
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.036)	272128	92.7976	96.7
56 Fluorene	166	9.036	9.036	(1.073)	910583	87.8026	91.5
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.076)	487709	94.5369	98.5
58 Diethyl phthalate	149	9.024	9.024	(1.072)	814849	81.2982	84.7
59 4-Nitroaniline	138	9.118	9.118	(1.083)	159048	60.3742	62.9
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.922)	158863	98.5457	103
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.926)	621385	92.7214	96.6

Data File: /chem/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.928)	803421	77.3002	80.5
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.960)	294125	103.152	107
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	298947	83.8632	87.4
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	204595	88.6530	92.3
66 Phenanthrene	178	9.946	9.946	(1.002)	1424591	92.2078	96.0
67 Anthracene	178	9.987	9.982	(1.006)	1390678	89.9778	93.7
68 Carbazole	167	10.140	10.134	(1.021)	1250020	85.8415	89.4
69 Di-n-butyl phthalate	149	10.475	10.475	(1.055)	1373737	83.1879	86.6
70 Fluoranthene (ccc)	202	10.916	10.916	(1.099)	1687407	101.116	105
71 Pyrene	202	11.086	11.080	(0.923)	1721256	102.241	106
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	599088	79.4074	82.7
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1615577	93.7366	97.6
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	277106	42.4714	44.2
75 Chrysene	228	12.032	12.026	(1.002)	1546386	93.7026	97.6
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	816062	85.1129	88.6
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	1404788	76.3115	79.5
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1739260	89.8904	93.6
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1610431	81.5078	84.9
80 Benzo(a)pyrene (ccc)	252	13.195	13.190	(0.997)	1387082	86.0211	89.6
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1486416	83.2019	86.7
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1271438	84.9108	88.4
83 Benzo(g,h,i)perylene	276	14.529	14.523	(1.098)	1275673	84.4242	87.9

Data File: /chem/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h371ad.d
Lab Smp Id: H2H371AD
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2898-R1-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	63274	2.18
2 Naphthalene-d8	196946	98473	393892	204891	4.03
3 Acenaphthene-d10	140395	70198	280790	147188	4.84
4 Phenanthrene-d10	245474	122737	490948	256223	4.38
5 Chrysene-d12	253631	126816	507262	263221	3.78
6 Perylene-d12	225613	112806	451226	251787	11.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.42	0.07
4 Phenanthrene-d10	9.92	9.42	10.42	9.93	0.06
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H371AD
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2898-R1-POTW DISC
Operator: 60841
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	104	86.7	83.20	35-150
14 Pyridine	104	63.4	60.86	35-150
15 Phenol (ccc)	104	78.7	75.57	59-117
16 Aniline	104	56.5	54.24	35-150
17 Bis(2-chloroethyl)	104	74.8	71.83	35-150
18 2-Chlorophenol	104	76.8	73.72	63-114
19 1,3-Dichlorobenzen	104	76.5	73.42	35-150
20 1,4-Dichlorobenzen	104	76.3	73.21	65-111
21 Benzyl alcohol	104	79.1	75.98	35-150
22 1,2-Dichlorobenzen	104	77.4	74.29	35-150
23 2-Methylphenol	104	77.3	74.17	35-150
24 2,2'-Oxybis(1-Chlo	104	69.2	66.44	35-150
25 4-Methylphenol	208	158	76.09	35-150
26 3&4 Methylphenol	208	158	76.09	35-150
27 N-Nitroso-di-n-pro	104	77.6	74.45	62-114
28 Hexachloroethane	104	72.3	69.43	35-150
29 Nitrobenzene	104	84.8	81.42	35-150
30 Isophorone	104	77.6	74.55	35-150
31 2-Nitrophenol (ccc	104	88.0	84.45	35-150
32 2,4-Dimethyphenol	104	55.4	53.16	35-150
33 Bis(2-chloroethoxy	104	74.7	71.75	35-150
34 Benzoic acid	104	70.0	67.25	35-150
35 2,4-Dichlorophenol	104	89.4	85.83	35-150
36 1,2,4-Trichloroben	104	90.8	87.21	66-113
37 Naphthalene	104	79.7	76.53	60-100
38 4-Chloroaniline	104	45.0	43.16	35-150
39 Hexachlorobutadien	104	76.5	73.46	35-150
40 4-Chloro-3-methylp	104	85.8	82.36	71-118
41 2-Methylnaphthalen	104	93.3	89.56	35-150
42 Hexachlorocyclopen	104	53.0	50.87	35-150
43 2,4,6-Trichlorophe	104	90.9	87.24	35-150
44 2,4,5-Trichlorphen	104	90.7	87.11	35-150
45 2-Chloronaphthalen	104	82.3	79.01	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	104	76.5	73.41	35-150
47 Acenaphthylene	104	88.2	84.70	60-106
48 Dimethyl phthalate	104	89.8	86.23	35-150
49 2,6-Dinitrotoluene	104	96.0	92.13	35-150
50 3-Nitroaniline	104	62.5	59.97	35-150
51 Acenaphthene (ccc)	104	88.2	84.71	65-107
52 2,4-Dinitrophenol	104	100	96.24	35-150
53 Dibenzofuran	104	92.6	88.87	35-150
54 4-Nitrophenol ##sp	104	78.7	75.59	61-128
55 2,4-Dinitrotoluene	104	96.7	92.80	72-131
56 Fluorene	104	91.5	87.80	60-113
57 4-Chlorophenyl phe	104	98.5	94.54	35-150
58 Diethyl phthalate	104	84.7	81.30	35-150
59 4-Nitroaniline	104	62.9	60.37	35-150
60 4,6-Dinitro-2-meth	104	103	98.55	35-150
61 N-Ndpa / diphenyla	104	96.6	92.72	35-150
62 1,2-Diphenylhydraz	104	80.5	77.30	35-150
63 4-Bromophenyl phen	104	107	103.15	35-150
64 Hexachlorobenzene	104	87.4	83.86	35-150
65 Pentachlorophenol	104	92.3	88.65	71-122
66 Phenanthrene	104	96.0	92.21	65-108
67 Anthracene	104	93.7	89.98	67-114
68 Carbazole	104	89.4	85.84	35-150
69 Di-n-butyl phthala	104	86.6	83.19	35-150
70 Fluoranthene (ccc)	104	105	101.12	65-115
71 Pyrene	104	106	102.24	67-114
72 Butyl benzyl phtha	104	82.7	79.41	35-150
73 Benzo(a)Anthracene	104	97.6	93.74	70-114
74 3,3'-Dichlorobenzi	104	44.2	42.47	35-150
75 Chrysene	104	97.6	93.70	68-111
76 Bis(2-ethylhexyl)	104	88.6	85.11	35-150
77 Di-n-octyl phthala	104	79.5	76.31	35-150
78 Benzo(b)fluoranthe	104	93.6	89.89	60-120
79 Benzo(k)fluoranthe	104	84.9	81.51	61-119
80 Benzo(a)pyrene (cc	104	89.6	86.02	67-111
81 Indeno(1,2,3-cd)py	104	86.7	83.20	67-120
82 Dibenz(a,h)anthrac	104	88.4	84.91	71-120
83 Benzo(g,h,i)peryle	104	87.9	84.42	63-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	78.1	48.0	61.47	36-98
$ 8 Phenol-d5	78.1	55.9	71.61	49-109

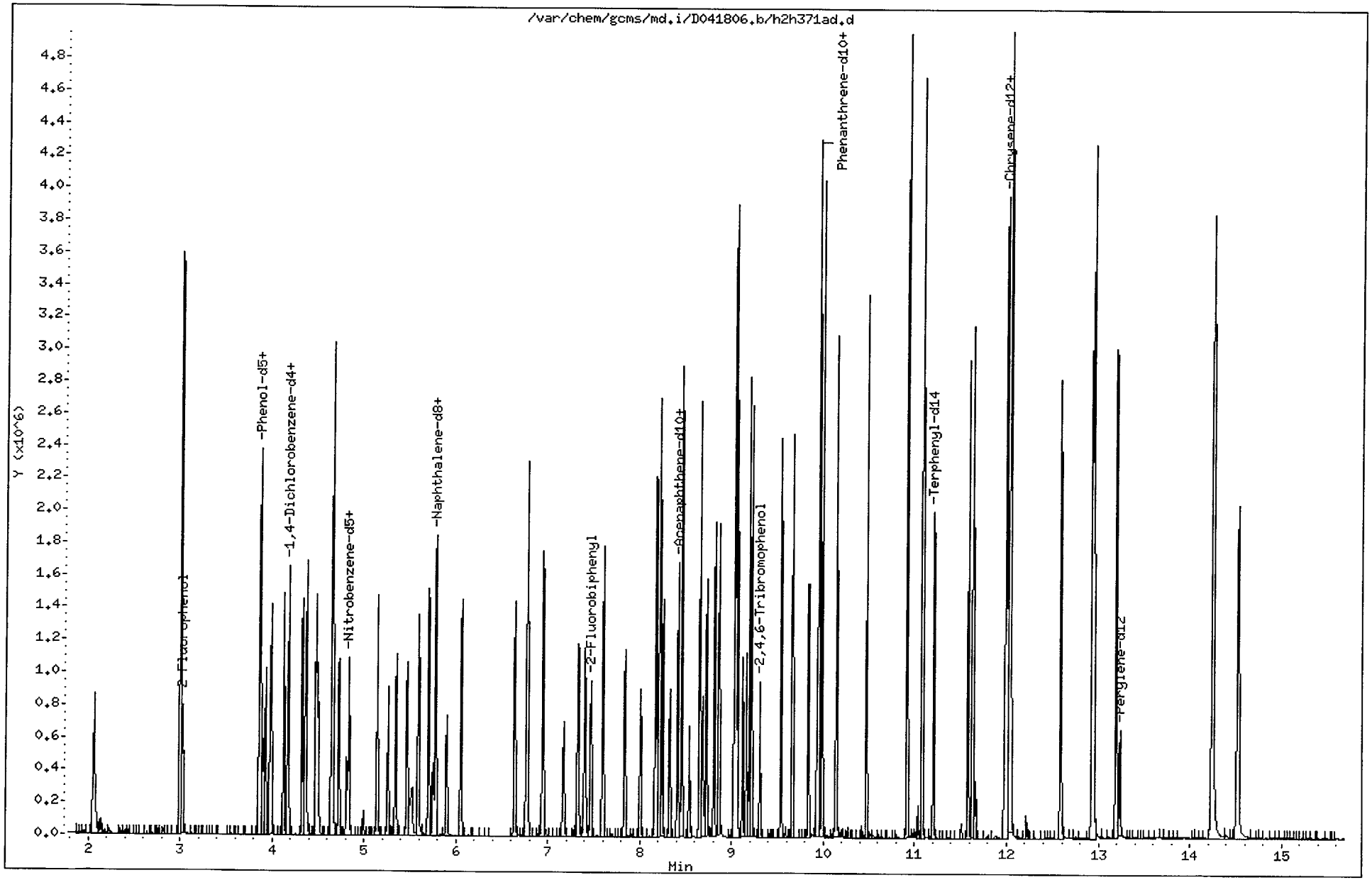
Data File: /chem/gcms/md.i/D041806.b/h2h371ad.d
Report Date: 18-Apr-2006 18:18

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	52.1	38.0	72.90	57-120
$ 10 2-Fluorobiphenyl	52.1	44.4	85.33	56-118
$ 11 2,4,6-Tribromophen	78.1	65.7	84.09	55-134
$ 12 Terphenyl-d14	52.1	46.2	88.73	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h371ad.d
Date : 18-APR-2006 18:01
Client ID: G-2898-R1-POTW DISC
Sample Info: H2H371AD,,3,,,MSD,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**86**	**(65 - 107)**			**SW846 8270C**
	92	**(65 - 107)**	**6.2**	**(0-26)**	**SW846 8270C**
Acenaphthylene	86	(62 - 108)			SW846 8270C
	90	(62 - 108)	4.8	(0-30)	SW846 8270C
Aniline	67	(25 - 105)			SW846 8270C
	49	(25 - 105)	31	(0-39)	SW846 8270C
Anthracene	90	(64 - 115)			SW846 8270C
	93	(64 - 115)	3.0	(0-21)	SW846 8270C
Benzo(b)fluoranthene	74	(53 - 127)			SW846 8270C
	92	(53 - 127)	22	(0-45)	SW846 8270C
Benzo(k)fluoranthene	97	(55 - 121)			SW846 8270C
	86	(55 - 121)	13	(0-48)	SW846 8270C
Benzoic acid	4.0 a	(20 - 141)			SW846 8270C
	76 p	(20 - 141)	180	(0-49)	SW846 8270C
Benzo(ghi)perylene	84	(56 - 123)			SW846 8270C
	89	(56 - 123)	5.7	(0-31)	SW846 8270C
Benzo(a)pyrene	87	(56 - 112)			SW846 8270C
	90	(56 - 112)	2.5	(0-32)	SW846 8270C
Benzyl alcohol	82	(68 - 122)			SW846 8270C
	86	(68 - 122)	4.5	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	77	(64 - 108)			SW846 8270C
	81	(64 - 108)	4.9	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	74	(63 - 113)			SW846 8270C
	75	(63 - 113)	2.0	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	80	(62 - 138)			SW846 8270C
	86	(62 - 138)	7.2	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	102	(78 - 136)			SW846 8270C
	105	(78 - 136)	2.9	(0-23)	SW846 8270C
Butyl benzyl phthalate	76	(67 - 123)			SW846 8270C
	82	(67 - 123)	7.7	(0-27)	SW846 8270C
Carbazole	88	(62 - 109)			SW846 8270C
	90	(62 - 109)	2.1	(0-21)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	66	(24 - 90)			SW846 8270C
	55	(24 - 90)	18	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**79**	**(66 - 130)**			**SW846 8270C**
	89	**(66 - 130)**	**11**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	83	(70 - 109)			SW846 8270C
	87	(70 - 109)	4.6	(0-28)	SW846 8270C
2-Chlorophenol	**70**	**(59 - 118)**			**SW846 8270C**
	80	**(59 - 118)**	**13**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	95	(71 - 114)			SW846 8270C
	101	(71 - 114)	5.7	(0-23)	SW846 8270C
Chrysene	92	(62 - 114)			SW846 8270C
	97	(62 - 114)	4.7	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	82	(61 - 129)			SW846 8270C
	86	(61 - 129)	4.2	(0-28)	SW846 8270C
Dibenzofuran	90	(70 - 111)			SW846 8270C
	94	(70 - 111)	4.2	(0-25)	SW846 8270C
Di-n-butyl phthalate	82	(67 - 126)			SW846 8270C
	85	(67 - 126)	3.4	(0-20)	SW846 8270C
1,2-Dichlorobenzene	76	(58 - 114)			SW846 8270C
	80	(58 - 114)	4.5	(0-35)	SW846 8270C
1,3-Dichlorobenzene	75	(57 - 112)			SW846 8270C
	79	(57 - 112)	4.8	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**76**	**(58 - 113)**			**SW846 8270C**
	80	**(58 - 113)**	**5.6**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	64	(20 - 100)			SW846 8270C
	60	(20 - 100)	7.3	(0-50)	SW846 8270C
2,4-Dichlorophenol	80	(65 - 121)			SW846 8270C
	96	(65 - 121)	18	(0-36)	SW846 8270C
Diethyl phthalate	80	(60 - 116)			SW846 8270C
	85	(60 - 116)	6.4	(0-21)	SW846 8270C
2,4-Dimethylphenol	55	(30 - 107)			SW846 8270C
	57	(30 - 107)	3.4	(0-41)	SW846 8270C
Dimethyl phthalate	84	(68 - 114)			SW846 8270C
	89	(68 - 114)	5.3	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	2.4 a	(66 - 147)			SW846 8270C
	100 p	(66 - 147)	191	(0-44)	SW846 8270C
2,4-Dinitrophenol	0.0	(30 - 150)			SW846 8270C
	98 p	(30 - 150)	200	(0-50)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**90**	**(69 - 131)**			**SW846 8270C**
	96	**(69 - 131)**	**6.0**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	91	(71 - 142)			SW846 8270C
	97	(71 - 142)	6.0	(0-30)	SW846 8270C
Di-n-octyl phthalate	77	(67 - 127)			SW846 8270C
	83	(67 - 127)	7.4	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	78	(61 - 111)			SW846 8270C
	83	(61 - 111)	6.1	(0-32)	SW846 8270C
Fluoranthene	98	(60 - 119)			SW846 8270C
	104	(60 - 119)	5.5	(0-23)	SW846 8270C
Fluorene	88	(60 - 111)			SW846 8270C
	93	(60 - 111)	5.3	(0-24)	SW846 8270C
Hexachlorobenzene	85	(65 - 120)			SW846 8270C
	90	(65 - 120)	5.5	(0-22)	SW846 8270C
Hexachlorobutadiene	80	(51 - 110)			SW846 8270C
	80	(51 - 110)	0.50	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	51	(20 - 92)			SW846 8270C
	54	(20 - 92)	5.2	(0-50)	SW846 8270C
Hexachloroethane	71	(57 - 122)			SW846 8270C
	75	(57 - 122)	5.1	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	81	(56 - 124)			SW846 8270C
	84	(56 - 124)	3.3	(0-29)	SW846 8270C
Isophorone	79	(68 - 110)			SW846 8270C
	84	(68 - 110)	6.9	(0-30)	SW846 8270C
2-Methylnaphthalene	95	(62 - 110)			SW846 8270C
	101	(62 - 110)	5.9	(0-29)	SW846 8270C
2-Methylphenol	76	(58 - 115)			SW846 8270C
	80	(58 - 115)	4.2	(0-38)	SW846 8270C
Naphthalene	82	(61 - 108)			SW846 8270C
	86	(61 - 108)	4.6	(0-35)	SW846 8270C
2-Nitroaniline	75	(56 - 121)			SW846 8270C
	79	(56 - 121)	4.6	(0-25)	SW846 8270C
3-Nitroaniline	74	(42 - 104)			SW846 8270C
	70	(42 - 104)	5.4	(0-32)	SW846 8270C
4-Nitroaniline	75	(48 - 112)			SW846 8270C
	76	(48 - 112)	0.92	(0-30)	SW846 8270C
Nitrobenzene	83	(67 - 118)			SW846 8270C
	87	(67 - 118)	5.2	(0-35)	SW846 8270C
2-Nitrophenol	12 a	(60 - 133)			SW846 8270C
	94 p	(60 - 133)	156	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**2.6 a**	**(61 - 142)**			**SW846 8270C**
	76 p	**(61 - 142)**	**187**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	85	(56 - 121)			SW846 8270C
	89	(56 - 121)	4.8	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	93	(59 - 128)			SW846 8270C
	95	(59 - 128)	1.9	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**76**	**(60 - 117)**			**SW846 8270C**
	80	**(60 - 117)**	**4.9**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**11 a**	**(71 - 135)**			**SW846 8270C**
	93 p	**(71 - 135)**	**156**	**(0-37)**	**SW846 8270C**
Phenanthrene	92	(64 - 108)			SW846 8270C
	94	(64 - 108)	3.0	(0-21)	SW846 8270C
Phenol	**76**	**(55 - 123)**			**SW846 8270C**
	81	**(55 - 123)**	**6.1**	**(0-41)**	**SW846 8270C**
Pyrene	**100**	**(63 - 114)**			**SW846 8270C**
	105	**(63 - 114)**	**4.9**	**(0-27)**	**SW846 8270C**
Pyridine	72	(37 - 107)			SW846 8270C
	56	(37 - 107)	24	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**94**	**(63 - 113)**			**SW846 8270C**
	99	**(63 - 113)**	**5.4**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	58 a	(72 - 120)			SW846 8270C
	92 p	(72 - 120)	45	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	45 a	(69 - 122)			SW846 8270C
	92 p	(69 - 122)	68	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(36 - 98)
	64	(36 - 98)
Phenol-d5	73	(49 - 109)
	76	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	81	(57 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	91	(56 - 118)
	93	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
	88	(55 - 134)
Terphenyl-d14	89	(33 - 142)
	92	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**1000**	**860**	**ug/L**	**86**		**SW846 8270C**
	ND	**1000**	**915**	**ug/L**	**92**	**6.2**	**SW846 8270C**
Acenaphthylene	ND	1000	860	ug/L	86		SW846 8270C
	ND	1000	902	ug/L	90	4.8	SW846 8270C
Aniline	ND	1000	674	ug/L	67		SW846 8270C
	ND	1000	493	ug/L	49	31	SW846 8270C
Anthracene	ND	1000	901	ug/L	90		SW846 8270C
	ND	1000	928	ug/L	93	3.0	SW846 8270C
Benzo(b)fluoranthene	ND	1000	737	ug/L	74		SW846 8270C
	ND	1000	921	ug/L	92	22	SW846 8270C
Benzo(k)fluoranthene	ND	1000	972	ug/L	97		SW846 8270C
	ND	1000	857	ug/L	86	13	SW846 8270C
Benzoic acid	ND	1000		ug/L	4.0 a		SW846 8270C
	ND	1000	755	ug/L	76 p	180	SW846 8270C
Benzo(ghi)perylene	ND	1000	838	ug/L	84		SW846 8270C
	ND	1000	887	ug/L	89	5.7	SW846 8270C
Benzo(a)pyrene	ND	1000	874	ug/L	87		SW846 8270C
	ND	1000	896	ug/L	90	2.5	SW846 8270C
Benzyl alcohol	ND	1000	817	ug/L	82		SW846 8270C
	ND	1000	855	ug/L	86	4.5	SW846 8270C
bis(2-Chloroethoxy) methane	ND	1000	773	ug/L	77		SW846 8270C
	ND	1000	812	ug/L	81	4.9	SW846 8270C
bis(2-Chloroethyl)-ether	ND	1000	738	ug/L	74		SW846 8270C
	ND	1000	753	ug/L	75	2.0	SW846 8270C
bis(2-Ethylhexyl) phthalate	41	1000	836	ug/L	80		SW846 8270C
	41	1000	898	ug/L	86	7.2	SW846 8270C
4-Bromophenyl phenyl ether	ND	1000	1020	ug/L	102		SW846 8270C
	ND	1000	1050	ug/L	105	2.9	SW846 8270C
Butyl benzyl phthalate	ND	1000	762	ug/L	76		SW846 8270C
	ND	1000	823	ug/L	82	7.7	SW846 8270C
Carbazole	ND	1000	876	ug/L	88		SW846 8270C
	ND	1000	895	ug/L	90	2.1	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	1000	658	ug/L	66		SW846 8270C
	ND	1000	547	ug/L	55	18	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**1000**	**793**	**ug/L**	**79**		**SW846 8270C**
	ND	**1000**	**887**	**ug/L**	**89**	**11**	**SW846 8270C**
2-Chloronaphthalene	ND	1000	830	ug/L	83		SW846 8270C
	ND	1000	869	ug/L	87	4.6	SW846 8270C
2-Chlorophenol	**ND**	**1000**	**699**	**ug/L**	**70**		**SW846 8270C**
	ND	**1000**	**800**	**ug/L**	**80**	**13**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	1000	954	ug/L	95		SW846 8270C
	ND	1000	1010	ug/L	101	5.7	SW846 8270C
Chrysene	ND	1000	922	ug/L	92		SW846 8270C
	ND	1000	966	ug/L	97	4.7	SW846 8270C
Dibenz(a,h)anthracene	ND	1000	823	ug/L	82		SW846 8270C
	ND	1000	858	ug/L	86	4.2	SW846 8270C
Dibenzofuran	ND	1000	897	ug/L	90		SW846 8270C
	ND	1000	936	ug/L	94	4.2	SW846 8270C
Di-n-butyl phthalate	ND	1000	824	ug/L	82		SW846 8270C
	ND	1000	853	ug/L	85	3.4	SW846 8270C
1,2-Dichlorobenzene	ND	1000	760	ug/L	76		SW846 8270C
	ND	1000	795	ug/L	80	4.5	SW846 8270C
1,3-Dichlorobenzene	ND	1000	750	ug/L	75		SW846 8270C
	ND	1000	787	ug/L	79	4.8	SW846 8270C
1,4-Dichlorobenzene	**ND**	**1000**	**756**	**ug/L**	**76**		**SW846 8270C**
	ND	**1000**	**800**	**ug/L**	**80**	**5.6**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	1000	640	ug/L	64		SW846 8270C
	ND	1000	595	ug/L	60	7.3	SW846 8270C
2,4-Dichlorophenol	ND	1000	796	ug/L	80		SW846 8270C
	ND	1000	958	ug/L	96	18	SW846 8270C
Diethyl phthalate	ND	1000	795	ug/L	80		SW846 8270C
	ND	1000	848	ug/L	85	6.4	SW846 8270C
2,4-Dimethylphenol	ND	1000	548	ug/L	55		SW846 8270C
	ND	1000	567	ug/L	57	3.4	SW846 8270C
Dimethyl phthalate	ND	1000	844	ug/L	84		SW846 8270C
	ND	1000	890	ug/L	89	5.3	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1000		ug/L	2.4 a		SW846 8270C
	ND	1000	1000	ug/L	100 p	191	SW846 8270C
2,4-Dinitrophenol	ND	1000		ug/L	0.0		SW846 8270C
	ND	1000	982	ug/L	98 p	200	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**1000**	**905**	**ug/L**	**90**		**SW846 8270C**
	ND	**1000**	**961**	**ug/L**	**96**	**6.0**	**SW846 8270C**
2,6-Dinitrotoluene	ND	1000	911	ug/L	91		SW846 8270C
	ND	1000	967	ug/L	97	6.0	SW846 8270C
Di-n-octyl phthalate	ND	1000	768	ug/L	77		SW846 8270C
	ND	1000	827	ug/L	83	7.4	SW846 8270C
1,2-Diphenylhydrazine	ND	1000	779	ug/L	78		SW846 8270C
	ND	1000	828	ug/L	83	6.1	SW846 8270C
Fluoranthene	ND	1000	984	ug/L	98		SW846 8270C
	ND	1000	1040	ug/L	104	5.5	SW846 8270C
Fluorene	ND	1000	884	ug/L	88		SW846 8270C
	ND	1000	932	ug/L	93	5.3	SW846 8270C
Hexachlorobenzene	ND	1000	849	ug/L	85		SW846 8270C
	ND	1000	897	ug/L	90	5.5	SW846 8270C
Hexachlorobutadiene	ND	1000	798	ug/L	80		SW846 8270C
	ND	1000	802	ug/L	80	0.50	SW846 8270C
Hexachlorocyclopenta-diene	ND	1000	510	ug/L	51		SW846 8270C
	ND	1000	537	ug/L	54	5.2	SW846 8270C
Hexachloroethane	ND	1000	709	ug/L	71		SW846 8270C
	ND	1000	746	ug/L	75	5.1	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	1000	811	ug/L	81		SW846 8270C
	ND	1000	838	ug/L	84	3.3	SW846 8270C
Isophorone	ND	1000	786	ug/L	79		SW846 8270C
	ND	1000	842	ug/L	84	6.9	SW846 8270C
2-Methylnaphthalene	ND	1000	952	ug/L	95		SW846 8270C
	ND	1000	1010	ug/L	101	5.9	SW846 8270C
2-Methylphenol	ND	1000	762	ug/L	76		SW846 8270C
	ND	1000	795	ug/L	80	4.2	SW846 8270C
Naphthalene	ND	1000	819	ug/L	82		SW846 8270C
	ND	1000	858	ug/L	86	4.6	SW846 8270C
2-Nitroaniline	ND	1000	751	ug/L	75		SW846 8270C
	ND	1000	786	ug/L	79	4.6	SW846 8270C
3-Nitroaniline	ND	1000	743	ug/L	74		SW846 8270C
	ND	1000	704	ug/L	70	5.4	SW846 8270C
4-Nitroaniline	ND	1000	753	ug/L	75		SW846 8270C
	ND	1000	760	ug/L	76	0.92	SW846 8270C
Nitrobenzene	ND	1000	830	ug/L	83		SW846 8270C
	ND	1000	874	ug/L	87	5.2	SW846 8270C
2-Nitrophenol	ND	1000	115	ug/L	12 a		SW846 8270C
	ND	1000	935	ug/L	94 p	156	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**1000**		**ug/L**	**2.6 a**		**SW846 8270C**
	ND	**1000**	**762**	**ug/L**	**76 p**	**187**	**SW846 8270C**
N-Nitrosodimethylamine	ND	1000	846	ug/L	85		SW846 8270C
	ND	1000	888	ug/L	89	4.8	SW846 8270C
N-Nitrosodiphenylamine	ND	1000	933	ug/L	93		SW846 8270C
	ND	1000	951	ug/L	95	1.9	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**1000**	**759**	**ug/L**	**76**		**SW846 8270C**
	ND	**1000**	**797**	**ug/L**	**80**	**4.9**	**SW846 8270C**
Pentachlorophenol	**ND**	**1000**	**114**	**ug/L**	**11 a**		**SW846 8270C**
	ND	**1000**	**926**	**ug/L**	**93 p**	**156**	**SW846 8270C**
Phenanthrene	ND	1000	917	ug/L	92		SW846 8270C
	ND	1000	945	ug/L	94	3.0	SW846 8270C
Phenol	**ND**	**1000**	**763**	**ug/L**	**76**		**SW846 8270C**
	ND	**1000**	**811**	**ug/L**	**81**	**6.1**	**SW846 8270C**
Pyrene	**ND**	**1000**	**1000**	**ug/L**	**100**		**SW846 8270C**
	ND	**1000**	**1050**	**ug/L**	**105**	**4.9**	**SW846 8270C**
Pyridine	ND	1000	720	ug/L	72		SW846 8270C
	ND	1000	564	ug/L	56	24	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**1000**	**938**	**ug/L**	**94**		**SW846 8270C**
	ND	**1000**	**990**	**ug/L**	**99**	**5.4**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	1000	580	ug/L	58 a		SW846 8270C
	ND	1000	921	ug/L	92 p	45	SW846 8270C
2,4,6-Trichloro-phenol	ND	1000	453	ug/L	45 a		SW846 8270C
	ND	1000	915	ug/L	92 p	68	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(36 - 98)
	64	(36 - 98)
Phenol-d5	73	(49 - 109)
	76	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	81	(57 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H381AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-004 H2H381AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	91	(56 - 118)
	93	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
	88	(55 - 134)
Terphenyl-d14	89	(33 - 142)
	92	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h381ac.d
Lab Smp Id: H2H381AC Client Smp ID: G-2902-R1-CAUSTIC F
Inj Date : 18-APR-2006 18:49
Operator : 60841 Inst ID: md.i
Smp Info : H2H381AC,,3,,,MS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	100.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	64495	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	200763	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	146734	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	250785	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	261026	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	246059	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.726)	175966	39.0145	390
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	299611	55.0702	551
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	183255	40.4938	405
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	440313	45.5177	455
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	65398	41.1253	411(R)
$ 12 Terphenyl-d14	244	11.210	11.210	(0.933)	563830	44.4102	444
13 N-Nitrosodimethylamine	74	2.050	2.050	(0.492)	182160	84.6207	846
14 Pyridine	79	2.061	2.067	(0.495)	309767	71.9674	720

Data File: /chem/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	438720	76.2964	763
16 Aniline	93	3.877	3.877	(0.931)	432878	67.4140	674
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	296902	73.7834	738
18 2-Chlorophenol	128	3.989	3.988	(0.958)	298706	69.8710	699
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.990)	366965	74.9588	750
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.003)	373865	75.5969	756
21 Benzyl alcohol	108	4.329	4.323	(1.040)	232988	81.7051	817
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	359996	75.9520	760
23 2-Methylphenol	108	4.476	4.476	(1.075)	311066	76.1505	762
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	472275	68.4824	685
25 4-Methylphenol	108	4.652	4.647	(1.117)	665245	156.658	1570
26 3&4 Methylphenol	108	4.652	4.647	(1.117)	665245	156.658	1570
27 N-Nitroso-di-n-propylamine###	70	4.664	4.658	(1.120)	240484	75.8919	759
28 Hexachloroethane	117	4.723	4.723	(1.134)	136393	70.9135	709
29 Nitrobenzene	77	4.835	4.835	(0.841)	363965	82.9504	830
30 Isophorone	82	5.146	5.146	(0.895)	640450	78.6116	786
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	22856	11.4881	115(R)
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	241991	54.8396	548
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	362206	77.3102	773
34 Benzoic acid	122	5.469	5.510	(0.951)	9191	4.03081	40.3(R)
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	279611	79.6468	796
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	366615	93.8192	938
37 Naphthalene	128	5.781	5.781	(1.005)	962413	81.8653	819
38 4-Chloroaniline	127	5.898	5.898	(1.026)	333537	65.8195	658
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	224883	79.7584	798
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	292183	79.2895	793
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	714173	95.1657	952
42 Hexachlorocyclopentadiene####	237	7.167	7.173	(0.852)	167840	50.9603	510
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	135829	45.2999	453
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	192164	57.9546	580
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	732358	82.9955	830
46 2-Nitroaniline	65	7.837	7.831	(0.932)	210820	75.0817	751
47 Acenaphthylene	152	8.213	8.213	(0.976)	1191603	86.0426	860
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	856941	84.4086	844
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	197693	91.0959	911
50 3-Nitroaniline	138	8.413	8.413	(1.000)	192879	74.2749	743
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	715156	86.0006	860
53 Dibenzofuran	168	8.654	8.648	(1.029)	1112319	89.6612	897
54 4-Nitrophenol ##spcc##	109	8.701	8.683	(1.034)	4259	2.62981	26.3(R)
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	264511	90.4793	905
56 Fluorene	166	9.036	9.036	(1.074)	914165	88.4208	884
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	490460	95.3644	954
58 Diethyl phthalate	149	9.024	9.024	(1.073)	794452	79.5084	795
59 4-Nitroaniline	138	9.118	9.118	(1.084)	197800	75.3165	753
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	3830	2.42753	24.3(R)
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	612165	93.3267	933
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	792594	77.9123	779

Data File: /chem/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	284724	102.020	1020
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	296320	84.9289	849
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	25679	11.3683	114(R)
66 Phenanthrene	178	9.946	9.946	(1.002)	1387181	91.7336	917
67 Anthracene	178	9.987	9.982	(1.006)	1362418	90.0610	901
68 Carbazole	167	10.134	10.134	(1.021)	1249214	87.6466	876
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1331280	82.3652	824
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1606857	98.3771	984
71 Pyrene	202	11.086	11.080	(0.923)	1671129	100.098	1000
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	569918	76.1763	762
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1566918	91.6780	917
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	414218	64.0200	640
75 Chrysene	228	12.032	12.026	(1.002)	1509115	92.2133	922
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	795429	83.6587	836
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	1382485	76.8482	768
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1393914	73.7189	737
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1876572	97.1889	972
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.996)	1377667	87.4262	874
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1415614	81.0834	811
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1204070	82.2837	823
83 Benzo(g,h,i)perylene	276	14.529	14.523	(1.098)	1236722	83.7518	838

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h381ac.d
Lab Smp Id: H2H381AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2902-R1-CAUSTIC F
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	64495	4.15
2 Naphthalene-d8	196946	98473	393892	200763	1.94
3 Acenaphthene-d10	140395	70198	280790	146734	4.52
4 Phenanthrene-d10	245474	122737	490948	250785	2.16
5 Chrysene-d12	253631	126816	507262	261026	2.92
6 Perylene-d12	225613	112806	451226	246059	9.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030246
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: H2H381AC
Client Smp ID: G-2902-R1-CAUSTIC F
Level: LOW
Operator: 60841
Data Type: MS DATA
SampleType: MS
SpikeList File: allspike.spk
Quant Type: ISTD
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	1000	846	84.62	35-150
14 Pyridine	1000	720	71.97	35-150
15 Phenol (ccc)	1000	763	76.30	59-117
16 Aniline	1000	674	67.41	35-150
17 Bis(2-chloroethyl)	1000	738	73.78	35-150
18 2-Chlorophenol	1000	699	69.87	63-114
19 1,3-Dichlorobenzen	1000	750	74.96	35-150
20 1,4-Dichlorobenzen	1000	756	75.60	65-111
21 Benzyl alcohol	1000	817	81.71	35-150
22 1,2-Dichlorobenzen	1000	760	75.95	35-150
23 2-Methylphenol	1000	762	76.15	35-150
24 2,2'-Oxybis(1-Chlo	1000	685	68.48	35-150
25 4-Methylphenol	2000	1570	78.33	35-150
26 3&4 Methylphenol	2000	1570	78.33	35-150
27 N-Nitroso-di-n-pro	1000	759	75.89	62-114
28 Hexachloroethane	1000	709	70.91	35-150
29 Nitrobenzene	1000	830	82.95	35-150
30 Isophorone	1000	786	78.61	35-150
31 2-Nitrophenol (ccc	1000	115	11.49*	35-150
32 2,4-Dimethyphenol	1000	548	54.84	35-150
33 Bis(2-chloroethoxy	1000	773	77.31	35-150
34 Benzoic acid	1000	40.3	4.03*	35-150
35 2,4-Dichlorophenol	1000	796	79.65	35-150
36 1,2,4-Trichloroben	1000	938	93.82	66-113
37 Naphthalene	1000	819	81.87	60-100
38 4-Chloroaniline	1000	658	65.82	35-150
39 Hexachlorobutadien	1000	798	79.76	35-150
40 4-Chloro-3-methylp	1000	793	79.29	71-118
41 2-Methylnaphthalen	1000	952	95.17	35-150
42 Hexachlorocyclopen	1000	510	50.96	35-150
43 2,4,6-Trichlorophe	1000	453	45.30	35-150
44 2,4,5-Trichlorphen	1000	580	57.95	35-150
45 2-Chloronaphthalen	1000	830	83.00	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	1000	751	75.08	35-150
47 Acenaphthylene	1000	860	86.04	60-106
48 Dimethyl phthalate	1000	844	84.41	35-150
49 2,6-Dinitrotoluene	1000	911	91.10	35-150
50 3-Nitroaniline	1000	743	74.27	35-150
51 Acenaphthene (ccc)	1000	860	86.00	65-107
52 2,4-Dinitrophenol	1000	0.00	*	35-150
53 Dibenzofuran	1000	897	89.66	35-150
54 4-Nitrophenol ##sp	1000	26.3	2.63*	61-128
55 2,4-Dinitrotoluene	1000	905	90.48	72-131
56 Fluorene	1000	884	88.42	60-113
57 4-Chlorophenyl phe	1000	954	95.36	35-150
58 Diethyl phthalate	1000	795	79.51	35-150
59 4-Nitroaniline	1000	753	75.32	35-150
60 4,6-Dinitro-2-meth	1000	24.3	2.43*	35-150
61 N-Ndpa / diphenyla	1000	933	93.33	35-150
62 1,2-Diphenylhydraz	1000	779	77.91	35-150
63 4-Bromophenyl phen	1000	1020	102.02	35-150
64 Hexachlorobenzene	1000	849	84.93	35-150
65 Pentachlorophenol	1000	114	11.37*	71-122
66 Phenanthrene	1000	917	91.73	65-108
67 Anthracene	1000	901	90.06	67-114
68 Carbazole	1000	876	87.65	35-150
69 Di-n-butyl phthala	1000	824	82.37	35-150
70 Fluoranthene (ccc)	1000	984	98.38	65-115
71 Pyrene	1000	1000	100.10	67-114
72 Butyl benzyl phtha	1000	762	76.18	35-150
73 Benzo(a)Anthracene	1000	917	91.68	70-114
74 3,3'-Dichlorobenzi	1000	640	64.02	35-150
75 Chrysene	1000	922	92.21	68-111
76 Bis(2-ethylhexyl)	1000	836	83.66	35-150
77 Di-n-octyl phthala	1000	768	76.85	35-150
78 Benzo(b)fluoranthe	1000	737	73.72	60-120
79 Benzo(k)fluoranthe	1000	972	97.19	61-119
80 Benzo(a)pyrene (cc	1000	874	87.43	67-111
81 Indeno(1,2,3-cd)py	1000	811	81.08	67-120
82 Dibenz(a,h)anthrac	1000	823	82.28	71-120
83 Benzo(g,h,i)peryle	1000	838	83.75	63-120

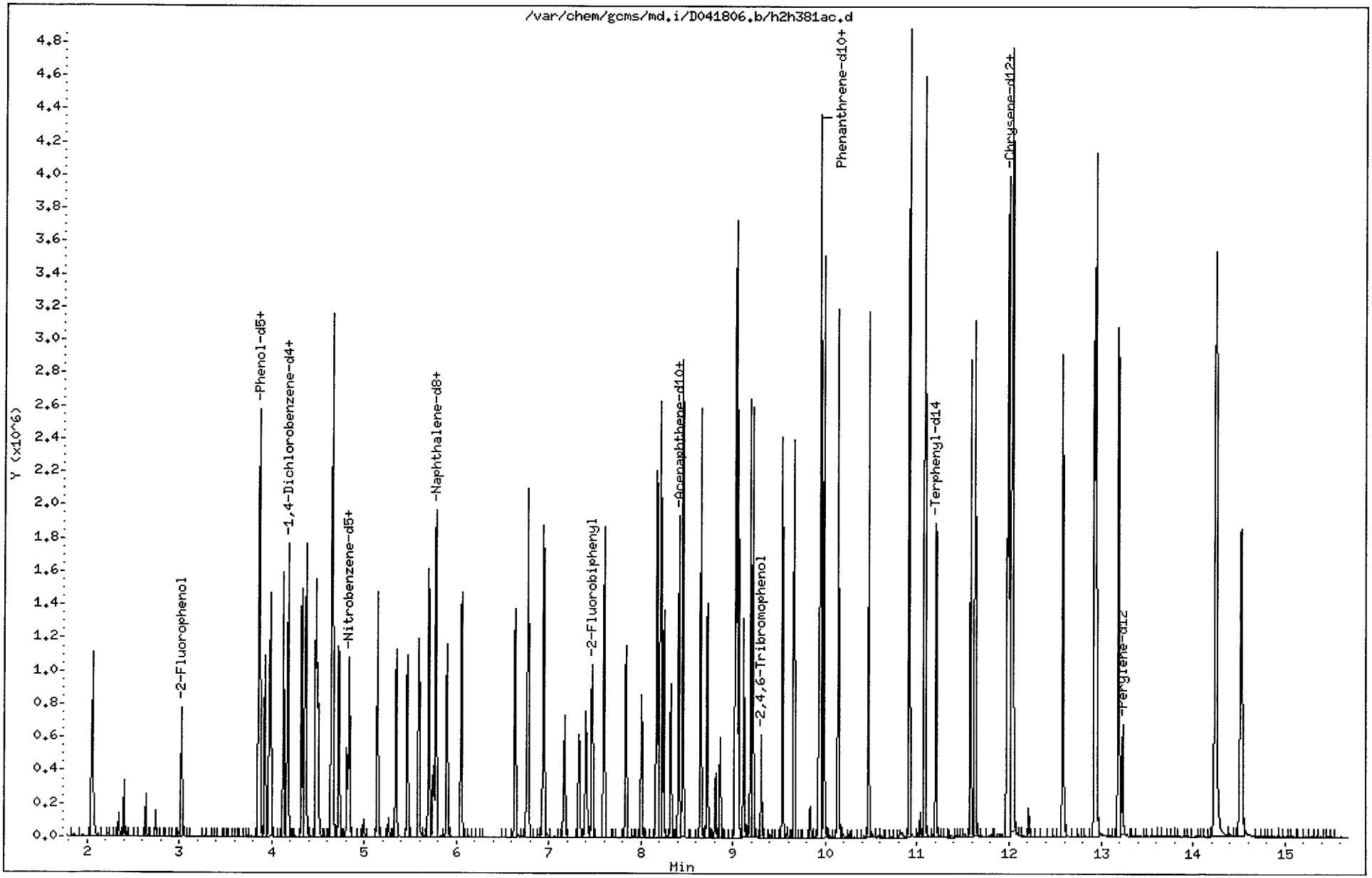
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	750	390	52.02	36-98
$ 8 Phenol-d5	750	551	73.43	49-109

Data File: /chem/gcms/md.i/D041806.b/h2h381ac.d
Report Date: 18-Apr-2006 19:05

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	500	405	80.99	57-120
$ 10 2-Fluorobiphenyl	500	455	91.04	56-118
$ 11 2,4,6-Tribromophen	750	411	54.83*	55-134
$ 12 Terphenyl-d14	500	444	88.82	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h381ac.d
Date : 18-APR-2006 18:49
Client ID: G-2902-R1-CAUSTIC F
Sample Info: H2H381AC,,3,,,MS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h381ad.d
Lab Smp Id: H2H381AD Client Smp ID: G-2902-R1-CAUSTIC F
Inj Date : 18-APR-2006 19:12
Operator : 60841 Inst ID: md.i
Smp Info : H2H381AD,,3,,,MSD,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	100.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.165	4.165	(1.000)	72148	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	224413	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	162917	20.0000	
* 4 Phenanthrene-d10	188	9.929	9.923	(1.000)	282226	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	285869	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	264193	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.726)	241597	47.8840	479
$ 8 Phenol-d5	99	3.859	3.859	(0.927)	346707	56.9669	570
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	204228	40.3721	404
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	497791	46.3480	463
$ 11 2,4,6-Tribromophenol	330	9.312	9.306	(0.938)	118643	66.2968	663
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	637077	45.8186	458
13 N-Nitrosodimethylamine	74	2.055	2.050	(0.494)	213910	88.8298	888
14 Pyridine	79	2.067	2.067	(0.496)	271782	56.4446	564

Data File: /chem/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.929)	521425	81.0607	811
16 Aniline	93	3.877	3.877	(0.931)	354041	49.2879	493
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.944)	338922	75.2917	753
18 2-Chlorophenol	128	3.989	3.988	(0.958)	382689	80.0205	800
19 1,3-Dichlorobenzene	146	4.130	4.124	(0.992)	431053	78.7101	787
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.003)	442771	80.0333	800
21 Benzyl alcohol	108	4.329	4.323	(1.040)	272741	85.5004	855
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.049)	421408	79.4781	795
23 2-Methylphenol	108	4.476	4.476	(1.075)	363145	79.4699	795
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.080)	555340	71.9855	720
25 4-Methylphenol	108	4.658	4.647	(1.119)	794662	167.285	1670(A)
26 3&4 Methylphenol	108	4.658	4.647	(1.119)	794662	167.285	1670(A)
27 N-Nitroso-di-n-propylamine###	70	4.664	4.658	(1.120)	282537	79.7053	797
28 Hexachloroethane	117	4.723	4.723	(1.134)	160634	74.6580	746
29 Nitrobenzene	77	4.840	4.835	(0.842)	428660	87.3991	874
30 Isophorone	82	5.146	5.146	(0.895)	766746	84.1954	842
31 2-Nitrophenol (ccc)	139	5.264	5.263	(0.915)	207958	93.5098	935
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	279633	56.6918	567
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	425485	81.2459	812
34 Benzoic acid	122	5.534	5.510	(0.962)	192408	75.4842	755
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	376095	95.8400	958
36 1,2,4-Trichlorobenzene	180	5.704	5.698	(0.992)	432337	98.9782	990
37 Naphthalene	128	5.781	5.781	(1.005)	1127472	85.7985	858
38 4-Chloroaniline	127	5.898	5.898	(1.026)	309939	54.7169	547
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	252810	80.2140	802
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	365253	88.6726	887
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	847791	101.065	1010
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.853)	196349	53.6946	537
43 2,4,6-Trichlorophenol (ccc)	196	7.332	7.326	(0.871)	304625	91.5031	915
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	339076	92.1038	921
45 2-Chloronaphthalene	162	7.602	7.596	(0.904)	851612	86.9238	869
46 2-Nitroaniline	65	7.837	7.831	(0.932)	244899	78.5553	786
47 Acenaphthylene	152	8.213	8.213	(0.976)	1386919	90.1983	902
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	1003282	89.0071	890
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	233008	96.7035	967
50 3-Nitroaniline	138	8.419	8.413	(1.001)	202866	70.3609	704
51 Acenaphthene (ccc)	153	8.460	8.454	(1.006)	844451	91.4620	915
52 2,4-Dinitrophenol ##spcc##	184	8.542	8.536	(1.015)	122457	98.2496	982
53 Dibenzofuran	168	8.654	8.648	(1.029)	1289753	93.6370	936
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	137028	76.2019	762
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	311901	96.0921	961
56 Fluorene	166	9.036	9.036	(1.074)	1070520	93.2589	932
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	576487	100.957	1010
58 Diethyl phthalate	149	9.024	9.024	(1.073)	940291	84.7566	848
59 4-Nitroaniline	138	9.124	9.118	(1.085)	221462	75.9503	760
60 4,6-Dinitro-2-methylphenol	198	9.165	9.159	(0.923)	177680	100.064	1000
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.926)	702280	95.1376	951

Data File: /chem/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.928)	947409	82.7556	828
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.960)	329108	104.786	1050
64 Hexachlorobenzene	284	9.664	9.658	(0.973)	352054	89.6621	897
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	235416	92.6096	926
66 Phenanthrene	178	9.946	9.946	(1.002)	1608257	94.5052	945
67 Anthracene	178	9.988	9.982	(1.006)	1580101	92.8145	928
68 Carbazole	167	10.140	10.134	(1.021)	1436243	89.5428	895
69 Di-n-butyl phthalate	149	10.475	10.475	(1.055)	1552470	85.3498	853
70 Fluoranthene (ccc)	202	10.916	10.916	(1.099)	1904155	103.591	1040
71 Pyrene	202	11.086	11.080	(0.923)	1928443	105.472	1050
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	674438	82.3123	823
73 Benzo(a)Anthracene	228	11.997	11.991	(0.999)	1800076	96.1668	962
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	421339	59.4612	595
75 Chrysene	228	12.032	12.026	(1.002)	1731477	96.6058	966
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	934770	89.7697	898
77 Di-n-octyl phthalate (ccc)	149	12.585	12.584	(0.951)	1597323	82.6961	827
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1869407	92.0800	921
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1776521	85.6920	857
80 Benzo(a)pyrene (ccc)	252	13.196	13.190	(0.997)	1516260	89.6169	896
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1571925	83.8567	838
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1347631	85.7732	858
83 Benzo(g,h,i)perylene	276	14.529	14.523	(1.098)	1406995	88.7428	887

QC Flag Legend

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

Data File: /chem/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h381ad.d
Lab Smp Id: H2H381AD
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2902-R1-CAUSTIC F
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	72148	16.51
2 Naphthalene-d8	196946	98473	393892	224413	13.95
3 Acenaphthene-d10	140395	70198	280790	162917	16.04
4 Phenanthrene-d10	245474	122737	490948	282226	14.97
5 Chrysene-d12	253631	126816	507262	285869	12.71
6 Perylene-d12	225613	112806	451226	264193	17.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	0.00
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.93	0.06
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H381AD
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2902-R1-CAUSTIC F
Operator: 60841
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	1000	888	88.83	35-150
14 Pyridine	1000	564	56.44	35-150
15 Phenol (ccc)	1000	811	81.06	59-117
16 Aniline	1000	493	49.29	35-150
17 Bis(2-chloroethyl)	1000	753	75.29	35-150
18 2-Chlorophenol	1000	800	80.02	63-114
19 1,3-Dichlorobenzen	1000	787	78.71	35-150
20 1,4-Dichlorobenzen	1000	800	80.03	65-111
21 Benzyl alcohol	1000	855	85.50	35-150
22 1,2-Dichlorobenzen	1000	795	79.48	35-150
23 2-Methylphenol	1000	795	79.47	35-150
24 2,2'-Oxybis(1-Chlo	1000	720	71.99	35-150
25 4-Methylphenol	2000	1670	83.64	35-150
26 3&4 Methylphenol	2000	1670	83.64	35-150
27 N-Nitroso-di-n-pro	1000	797	79.71	62-114
28 Hexachloroethane	1000	746	74.66	35-150
29 Nitrobenzene	1000	874	87.40	35-150
30 Isophorone	1000	842	84.20	35-150
31 2-Nitrophenol (ccc	1000	935	93.51	35-150
32 2,4-Dimethyphenol	1000	567	56.69	35-150
33 Bis(2-chloroethoxy	1000	812	81.25	35-150
34 Benzoic acid	1000	755	75.48	35-150
35 2,4-Dichlorophenol	1000	958	95.84	35-150
36 1,2,4-Trichloroben	1000	990	98.98	66-113
37 Naphthalene	1000	858	85.80	60-100
38 4-Chloroaniline	1000	547	54.72	35-150
39 Hexachlorobutadien	1000	802	80.21	35-150
40 4-Chloro-3-methylp	1000	887	88.67	71-118
41 2-Methylnaphthalen	1000	1010	101.07	35-150
42 Hexachlorocyclopen	1000	537	53.69	35-150
43 2,4,6-Trichlorophe	1000	915	91.50	35-150
44 2,4,5-Trichlorphen	1000	921	92.10	35-150
45 2-Chloronaphthalen	1000	869	86.92	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	1000	786	78.56	35-150
47 Acenaphthylene	1000	902	90.20	60-106
48 Dimethyl phthalate	1000	890	89.01	35-150
49 2,6-Dinitrotoluene	1000	967	96.70	35-150
50 3-Nitroaniline	1000	704	70.36	35-150
51 Acenaphthene (ccc)	1000	915	91.46	65-107
52 2,4-Dinitrophenol	1000	982	98.25	35-150
53 Dibenzofuran	1000	936	93.64	35-150
54 4-Nitrophenol ##sp	1000	762	76.20	61-128
55 2,4-Dinitrotoluene	1000	961	96.09	72-131
56 Fluorene	1000	932	93.26	60-113
57 4-Chlorophenyl phe	1000	1010	100.96	35-150
58 Diethyl phthalate	1000	848	84.76	35-150
59 4-Nitroaniline	1000	760	75.95	35-150
60 4,6-Dinitro-2-meth	1000	1000	100.06	35-150
61 N-Ndpa / diphenyla	1000	951	95.14	35-150
62 1,2-Diphenylhydraz	1000	828	82.76	35-150
63 4-Bromophenyl phen	1000	1050	104.79	35-150
64 Hexachlorobenzene	1000	897	89.66	35-150
65 Pentachlorophenol	1000	926	92.61	71-122
66 Phenanthrene	1000	945	94.51	65-108
67 Anthracene	1000	928	92.81	67-114
68 Carbazole	1000	895	89.54	35-150
69 Di-n-butyl phthala	1000	853	85.35	35-150
70 Fluoranthene (ccc)	1000	1040	103.59	65-115
71 Pyrene	1000	1050	105.47	67-114
72 Butyl benzyl phtha	1000	823	82.31	35-150
73 Benzo(a)Anthracene	1000	962	96.17	70-114
74 3,3'-Dichlorobenzi	1000	595	59.46	35-150
75 Chrysene	1000	966	96.61	68-111
76 Bis(2-ethylhexyl)	1000	898	89.77	35-150
77 Di-n-octyl phthala	1000	827	82.70	35-150
78 Benzo(b)fluoranthe	1000	921	92.08	60-120
79 Benzo(k)fluoranthe	1000	857	85.69	61-119
80 Benzo(a)pyrene (cc	1000	896	89.62	67-111
81 Indeno(1,2,3-cd)py	1000	838	83.86	67-120
82 Dibenz(a,h)anthrac	1000	858	85.77	71-120
83 Benzo(g,h,i)peryle	1000	887	88.74	63-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	750	479	63.85	36-98
$ 8 Phenol-d5	750	570	75.96	49-109

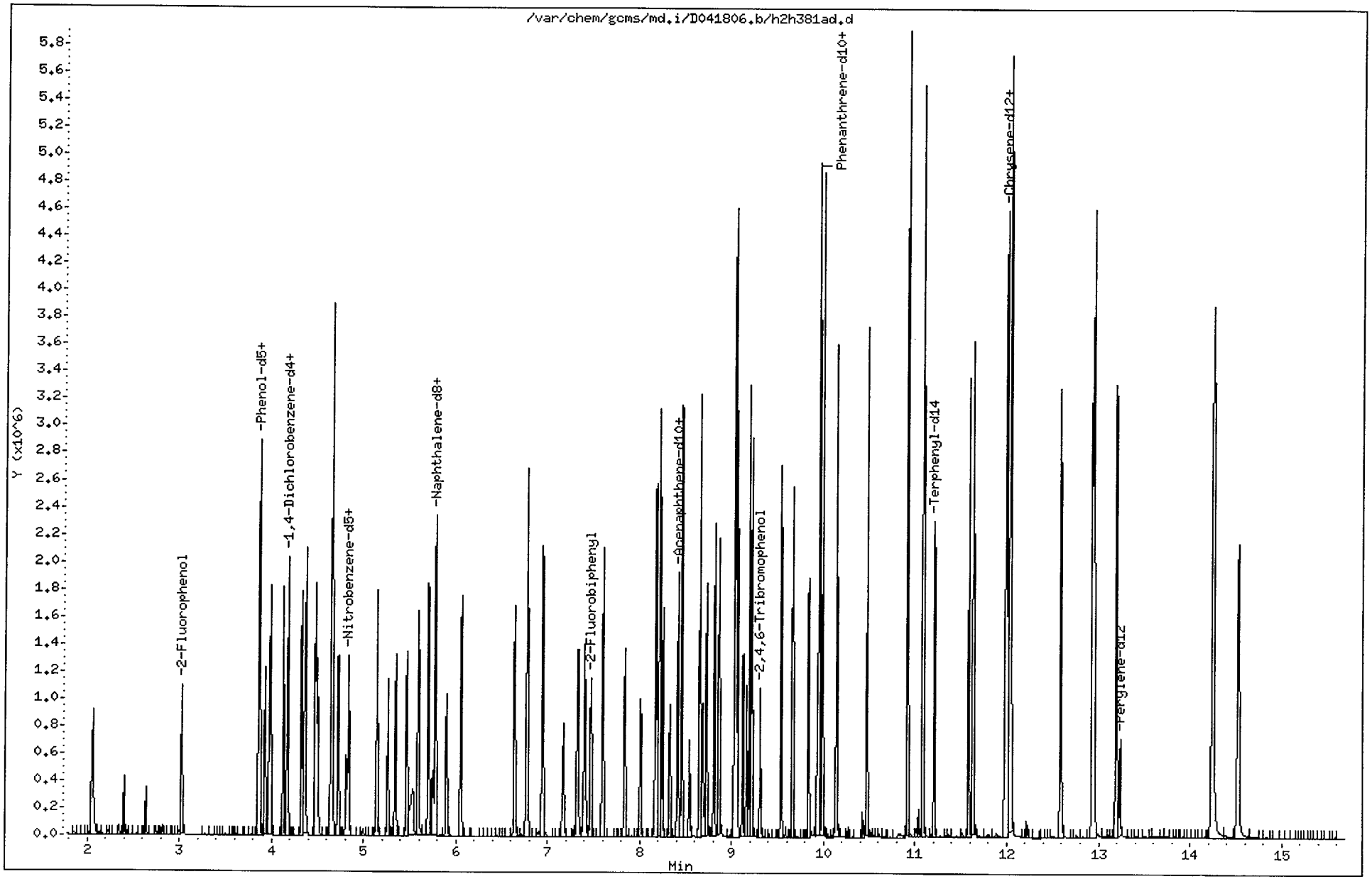
Data File: /chem/gcms/md.i/D041806.b/h2h381ad.d
Report Date: 18-Apr-2006 19:29

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	500	404	80.74	57-120
$ 10 2-Fluorobiphenyl	500	463	92.70	56-118
$ 11 2,4,6-Tribromophen	750	663	88.40	55-134
$ 12 Terphenyl-d14	500	458	91.64	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h381ad.d
Date : 18-APR-2006 19:12
Client ID: G-2902-R1-CAUSTIC F
Sample Info: H2H381AD,,3,,,MSD,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i

Operator: 60841
Column diameter: 0.25



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**90**	**(65 - 107)**			**SW846 8270C**
	81	**(65 - 107)**	**9.7**	**(0-26)**	**SW846 8270C**
Acenaphthylene	90	(62 - 108)			SW846 8270C
	75	(62 - 108)	18	(0-30)	SW846 8270C
Aniline	61	(25 - 105)			SW846 8270C
	39 p	(25 - 105)	43	(0-39)	SW846 8270C
Anthracene	90	(64 - 115)			SW846 8270C
	82	(64 - 115)	9.4	(0-21)	SW846 8270C
Benzo(b)fluoranthene	79	(53 - 127)			SW846 8270C
	71	(53 - 127)	11	(0-45)	SW846 8270C
Benzo(k)fluoranthene	97	(55 - 121)			SW846 8270C
	89	(55 - 121)	9.3	(0-48)	SW846 8270C
Benzoic acid	62	(20 - 141)			SW846 8270C
	55	(20 - 141)	11	(0-49)	SW846 8270C
Benzo(ghi)perylene	88	(56 - 123)			SW846 8270C
	80	(56 - 123)	9.7	(0-31)	SW846 8270C
Benzo(a)pyrene	88	(56 - 112)			SW846 8270C
	77	(56 - 112)	14	(0-32)	SW846 8270C
Benzyl alcohol	83	(68 - 122)			SW846 8270C
	72	(68 - 122)	13	(0-72)	SW846 8270C
bis(2-Chloroethoxy) methane	78	(64 - 108)			SW846 8270C
	71	(64 - 108)	9.0	(0-36)	SW846 8270C
bis(2-Chloroethyl)-ether	75	(63 - 113)			SW846 8270C
	68	(63 - 113)	11	(0-39)	SW846 8270C
bis(2-Ethylhexyl) phthalate	84	(62 - 138)			SW846 8270C
	78	(62 - 138)	6.7	(0-28)	SW846 8270C
4-Bromophenyl phenyl ether	105	(78 - 136)			SW846 8270C
	97	(78 - 136)	8.0	(0-23)	SW846 8270C
Butyl benzyl phthalate	79	(67 - 123)			SW846 8270C
	74	(67 - 123)	6.7	(0-27)	SW846 8270C
Carbazole	85	(62 - 109)			SW846 8270C
	74	(62 - 109)	14	(0-21)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	56	(24 - 90)			SW846 8270C
	44	(24 - 90)	24	(0-53)	SW846 8270C
4-Chloro-3-methylphenol	**83**	**(66 - 130)**			**SW846 8270C**
	73	**(66 - 130)**	**13**	**(0-29)**	**SW846 8270C**
2-Chloronaphthalene	86	(70 - 109)			SW846 8270C
	80	(70 - 109)	7.6	(0-28)	SW846 8270C
2-Chlorophenol	**77**	**(59 - 118)**			**SW846 8270C**
	66	**(59 - 118)**	**15**	**(0-43)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	102	(71 - 114)			SW846 8270C
	94	(71 - 114)	8.3	(0-23)	SW846 8270C
Chrysene	95	(62 - 114)			SW846 8270C
	89	(62 - 114)	6.2	(0-25)	SW846 8270C
Dibenz(a,h)anthracene	86	(61 - 129)			SW846 8270C
	78	(61 - 129)	9.2	(0-28)	SW846 8270C
Dibenzofuran	94	(70 - 111)			SW846 8270C
	86	(70 - 111)	8.9	(0-25)	SW846 8270C
Di-n-butyl phthalate	83	(67 - 126)			SW846 8270C
	78	(67 - 126)	6.4	(0-20)	SW846 8270C
1,2-Dichlorobenzene	78	(58 - 114)			SW846 8270C
	71	(58 - 114)	8.7	(0-35)	SW846 8270C
1,3-Dichlorobenzene	79	(57 - 112)			SW846 8270C
	73	(57 - 112)	8.6	(0-37)	SW846 8270C
1,4-Dichlorobenzene	**79**	**(58 - 113)**			**SW846 8270C**
	72	**(58 - 113)**	**8.6**	**(0-37)**	**SW846 8270C**
3,3'-Dichlorobenzidine	57	(20 - 100)			SW846 8270C
	38	(20 - 100)	40	(0-50)	SW846 8270C
2,4-Dichlorophenol	92	(65 - 121)			SW846 8270C
	83	(65 - 121)	9.8	(0-36)	SW846 8270C
Diethyl phthalate	84	(60 - 116)			SW846 8270C
	76	(60 - 116)	10	(0-21)	SW846 8270C
2,4-Dimethylphenol	49	(30 - 107)			SW846 8270C
	45	(30 - 107)	9.2	(0-41)	SW846 8270C
Dimethyl phthalate	89	(68 - 114)			SW846 8270C
	81	(68 - 114)	9.8	(0-24)	SW846 8270C
4,6-Dinitro-2-methylphenol	99	(66 - 147)			SW846 8270C
	92	(66 - 147)	7.5	(0-44)	SW846 8270C
2,4-Dinitrophenol	95	(30 - 150)			SW846 8270C
	89	(30 - 150)	6.7	(0-50)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**93**	**(69 - 131)**			**SW846 8270C**
	89	**(69 - 131)**	**4.7**	**(0-25)**	**SW846 8270C**
2,6-Dinitrotoluene	95	(71 - 142)			SW846 8270C
	87	(71 - 142)	8.9	(0-30)	SW846 8270C
Di-n-octyl phthalate	79	(67 - 127)			SW846 8270C
	72	(67 - 127)	9.9	(0-30)	SW846 8270C
1,2-Diphenylhydrazine	79	(61 - 111)			SW846 8270C
	72	(61 - 111)	8.9	(0-32)	SW846 8270C
Fluoranthene	102	(60 - 119)			SW846 8270C
	95	(60 - 119)	6.4	(0-23)	SW846 8270C
Fluorene	93	(60 - 111)			SW846 8270C
	85	(60 - 111)	9.0	(0-24)	SW846 8270C
Hexachlorobenzene	87	(65 - 120)			SW846 8270C
	78	(65 - 120)	11	(0-22)	SW846 8270C
Hexachlorobutadiene	81	(51 - 110)			SW846 8270C
	72	(51 - 110)	11	(0-35)	SW846 8270C
Hexachlorocyclopenta-diene	53	(20 - 92)			SW846 8270C
	58	(20 - 92)	9.5	(0-50)	SW846 8270C
Hexachloroethane	73	(57 - 122)			SW846 8270C
	68	(57 - 122)	6.5	(0-40)	SW846 8270C
Indeno(1,2,3-cd)pyrene	84	(56 - 124)			SW846 8270C
	76	(56 - 124)	9.8	(0-29)	SW846 8270C
Isophorone	80	(68 - 110)			SW846 8270C
	73	(68 - 110)	9.9	(0-30)	SW846 8270C
2-Methylnaphthalene	96	(62 - 110)			SW846 8270C
	87	(62 - 110)	10	(0-29)	SW846 8270C
2-Methylphenol	77	(58 - 115)			SW846 8270C
	61	(58 - 115)	24	(0-38)	SW846 8270C
Naphthalene	82	(61 - 108)			SW846 8270C
	73	(61 - 108)	12	(0-35)	SW846 8270C
2-Nitroaniline	78	(56 - 121)			SW846 8270C
	67	(56 - 121)	15	(0-25)	SW846 8270C
3-Nitroaniline	70	(42 - 104)			SW846 8270C
	60	(42 - 104)	15	(0-32)	SW846 8270C
4-Nitroaniline	74	(48 - 112)			SW846 8270C
	63	(48 - 112)	17	(0-30)	SW846 8270C
Nitrobenzene	81	(67 - 118)			SW846 8270C
	74	(67 - 118)	8.4	(0-35)	SW846 8270C
2-Nitrophenol	90	(60 - 133)			SW846 8270C
	83	(60 - 133)	8.3	(0-44)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	**75**	**(61 - 142)**			**SW846 8270C**
	69	**(61 - 142)**	**8.3**	**(0-50)**	**SW846 8270C**
N-Nitrosodimethylamine	86	(56 - 121)			SW846 8270C
	82	(56 - 121)	5.8	(0-40)	SW846 8270C
N-Nitrosodiphenylamine	93	(59 - 128)			SW846 8270C
	74	(59 - 128)	22	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**79**	**(60 - 117)**			**SW846 8270C**
	73	**(60 - 117)**	**8.3**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**88**	**(71 - 135)**			**SW846 8270C**
	81	**(71 - 135)**	**7.6**	**(0-37)**	**SW846 8270C**
Phenanthrene	92	(64 - 108)			SW846 8270C
	86	(64 - 108)	6.3	(0-21)	SW846 8270C
Phenol	**79**	**(55 - 123)**			**SW846 8270C**
	62	**(55 - 123)**	**24**	**(0-41)**	**SW846 8270C**
Pyrene	**102**	**(63 - 114)**			**SW846 8270C**
	95	**(63 - 114)**	**7.3**	**(0-27)**	**SW846 8270C**
Pyridine	73	(37 - 107)			SW846 8270C
	70	(37 - 107)	5.0	(0-63)	SW846 8270C
1,2,4-Trichloro-benzene	**95**	**(63 - 113)**			**SW846 8270C**
	86	**(63 - 113)**	**10**	**(0-36)**	**SW846 8270C**
2,4,5-Trichloro-phenol	93	(72 - 120)			SW846 8270C
	84	(72 - 120)	10	(0-39)	SW846 8270C
2,4,6-Trichloro-phenol	92	(69 - 122)			SW846 8270C
	85	(69 - 122)	8.2	(0-39)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(36 - 98)
	49	(36 - 98)
Phenol-d5	76	(49 - 109)
	38 *	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	71	(57 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	96	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	89	(55 - 134)
	82	(55 - 134)
Terphenyl-d14	92	(33 - 142)
	83	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**111**	**99.5**	**ug/L**	**90**		**SW846 8270C**
	ND	**111**	**90.3**	**ug/L**	**81**	**9.7**	**SW846 8270C**
Acenaphthylene	ND	111	100	ug/L	90		SW846 8270C
	ND	111	83.6	ug/L	75	18	SW846 8270C
Aniline	ND	111	67.6	ug/L	61		SW846 8270C
	ND	111	43.8	ug/L	39 p	43	SW846 8270C
Anthracene	ND	111	100	ug/L	90		SW846 8270C
	ND	111	91.0	ug/L	82	9.4	SW846 8270C
Benzo(b)fluoranthene	ND	111	87.6	ug/L	79		SW846 8270C
	ND	111	78.7	ug/L	71	11	SW846 8270C
Benzo(k)fluoranthene	ND	111	108	ug/L	97		SW846 8270C
	ND	111	98.4	ug/L	89	9.3	SW846 8270C
Benzoic acid	ND	111	68.3	ug/L	62		SW846 8270C
	ND	111	61.3	ug/L	55	11	SW846 8270C
Benzo(ghi)perylene	ND	111	97.6	ug/L	88		SW846 8270C
	ND	111	88.6	ug/L	80	9.7	SW846 8270C
Benzo(a)pyrene	ND	111	98.1	ug/L	88		SW846 8270C
	ND	111	85.5	ug/L	77	14	SW846 8270C
Benzyl alcohol	ND	111	91.7	ug/L	83		SW846 8270C
	ND	111	80.3	ug/L	72	13	SW846 8270C
bis(2-Chloroethoxy) methane	ND	111	86.8	ug/L	78		SW846 8270C
	ND	111	79.3	ug/L	71	9.0	SW846 8270C
bis(2-Chloroethyl)-ether	ND	111	83.8	ug/L	75		SW846 8270C
	ND	111	75.3	ug/L	68	11	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	111	93.8	ug/L	84		SW846 8270C
	ND	111	87.7	ug/L	78	6.7	SW846 8270C
4-Bromophenyl phenyl ether	ND	111	117	ug/L	105		SW846 8270C
	ND	111	108	ug/L	97	8.0	SW846 8270C
Butyl benzyl phthalate	ND	111	87.7	ug/L	79		SW846 8270C
	ND	111	82.0	ug/L	74	6.7	SW846 8270C
Carbazole	ND	111	93.9	ug/L	85		SW846 8270C
	ND	111	81.8	ug/L	74	14	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chloroaniline	ND	111	61.9	ug/L	56		SW846 8270C
	ND	111	48.6	ug/L	44	24	SW846 8270C
4-Chloro-3-methylphenol	**ND**	**111**	**91.8**	**ug/L**	**83**		**SW846 8270C**
	ND	**111**	**80.8**	**ug/L**	**73**	**13**	**SW846 8270C**
2-Chloronaphthalene	ND	111	95.9	ug/L	86		SW846 8270C
	ND	111	88.9	ug/L	80	7.6	SW846 8270C
2-Chlorophenol	**ND**	**111**	**85.0**	**ug/L**	**77**		**SW846 8270C**
	ND	**111**	**73.3**	**ug/L**	**66**	**15**	**SW846 8270C**
4-Chlorophenyl phenyl ether	ND	111	113	ug/L	102		SW846 8270C
	ND	111	104	ug/L	94	8.3	SW846 8270C
Chrysene	ND	111	105	ug/L	95		SW846 8270C
	ND	111	98.7	ug/L	89	6.2	SW846 8270C
Dibenz(a,h)anthracene	ND	111	95.0	ug/L	86		SW846 8270C
	ND	111	86.6	ug/L	78	9.2	SW846 8270C
Dibenzofuran	ND	111	104	ug/L	94		SW846 8270C
	ND	111	95.1	ug/L	86	8.9	SW846 8270C
Di-n-butyl phthalate	ND	111	92.4	ug/L	83		SW846 8270C
	ND	111	86.7	ug/L	78	6.4	SW846 8270C
1,2-Dichlorobenzene	ND	111	86.4	ug/L	78		SW846 8270C
	ND	111	79.2	ug/L	71	8.7	SW846 8270C
1,3-Dichlorobenzene	ND	111	87.7	ug/L	79		SW846 8270C
	ND	111	80.5	ug/L	73	8.6	SW846 8270C
1,4-Dichlorobenzene	**ND**	**111**	**87.2**	**ug/L**	**79**		**SW846 8270C**
	ND	**111**	**80.0**	**ug/L**	**72**	**8.6**	**SW846 8270C**
3,3'-Dichlorobenzidine	ND	111	63.4	ug/L	57		SW846 8270C
	ND	111	42.2	ug/L	38	40	SW846 8270C
2,4-Dichlorophenol	ND	111	102	ug/L	92		SW846 8270C
	ND	111	92.5	ug/L	83	9.8	SW846 8270C
Diethyl phthalate	ND	111	93.4	ug/L	84		SW846 8270C
	ND	111	84.5	ug/L	76	10	SW846 8270C
2,4-Dimethylphenol	ND	111	54.4	ug/L	49		SW846 8270C
	ND	111	49.6	ug/L	45	9.2	SW846 8270C
Dimethyl phthalate	ND	111	99.0	ug/L	89		SW846 8270C
	ND	111	89.7	ug/L	81	9.8	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	111	110	ug/L	99		SW846 8270C
	ND	111	102	ug/L	92	7.5	SW846 8270C
2,4-Dinitrophenol	ND	111	106	ug/L	95		SW846 8270C
	ND	111	99.1	ug/L	89	6.7	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**111**	**103**	**ug/L**	**93**		**SW846 8270C**
	ND	**111**	**98.3**	**ug/L**	**89**	**4.7**	**SW846 8270C**
2,6-Dinitrotoluene	ND	111	106	ug/L	95		SW846 8270C
	ND	111	97.0	ug/L	87	8.9	SW846 8270C
Di-n-octyl phthalate	ND	111	87.9	ug/L	79		SW846 8270C
	ND	111	79.6	ug/L	72	9.9	SW846 8270C
1,2-Diphenylhydrazine	ND	111	87.2	ug/L	79		SW846 8270C
	ND	111	79.8	ug/L	72	8.9	SW846 8270C
Fluoranthene	ND	111	113	ug/L	102		SW846 8270C
	ND	111	106	ug/L	95	6.4	SW846 8270C
Fluorene	ND	111	103	ug/L	93		SW846 8270C
	ND	111	94.1	ug/L	85	9.0	SW846 8270C
Hexachlorobenzene	ND	111	96.9	ug/L	87		SW846 8270C
	ND	111	86.4	ug/L	78	11	SW846 8270C
Hexachlorobutadiene	ND	111	89.5	ug/L	81		SW846 8270C
	ND	111	79.9	ug/L	72	11	SW846 8270C
Hexachlorocyclopenta-diene	ND	111	58.3	ug/L	53		SW846 8270C
	ND	111	64.1	ug/L	58	9.5	SW846 8270C
Hexachloroethane	ND	111	80.6	ug/L	73		SW846 8270C
	ND	111	75.5	ug/L	68	6.5	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	111	92.9	ug/L	84		SW846 8270C
	ND	111	84.2	ug/L	76	9.8	SW846 8270C
Isophorone	ND	111	89.1	ug/L	80		SW846 8270C
	ND	111	80.7	ug/L	73	9.9	SW846 8270C
2-Methylnaphthalene	ND	111	107	ug/L	96		SW846 8270C
	ND	111	96.4	ug/L	87	10	SW846 8270C
2-Methylphenol	ND	111	85.7	ug/L	77		SW846 8270C
	ND	111	67.2	ug/L	61	24	SW846 8270C
Naphthalene	ND	111	91.2	ug/L	82		SW846 8270C
	ND	111	80.7	ug/L	73	12	SW846 8270C
2-Nitroaniline	ND	111	86.3	ug/L	78		SW846 8270C
	ND	111	73.9	ug/L	67	15	SW846 8270C
3-Nitroaniline	ND	111	77.5	ug/L	70		SW846 8270C
	ND	111	66.6	ug/L	60	15	SW846 8270C
4-Nitroaniline	ND	111	82.4	ug/L	74		SW846 8270C
	ND	111	69.5	ug/L	63	17	SW846 8270C
Nitrobenzene	ND	111	89.7	ug/L	81		SW846 8270C
	ND	111	82.5	ug/L	74	8.4	SW846 8270C
2-Nitrophenol	ND	111	99.9	ug/L	90		SW846 8270C
	ND	111	91.9	ug/L	83	8.3	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	**ND**	**111**	**83.0**	**ug/L**	**75**		**SW846 8270C**
	ND	**111**	**76.4**	**ug/L**	**69**	**8.3**	**SW846 8270C**
N-Nitrosodimethylamine	ND	111	95.9	ug/L	86		SW846 8270C
	ND	111	90.5	ug/L	82	5.8	SW846 8270C
N-Nitrosodiphenylamine	ND	111	103	ug/L	93		SW846 8270C
	ND	111	82.4	ug/L	74	22	SW846 8270C
N-Nitrosodi-n-propyl-amine	**ND**	**111**	**87.5**	**ug/L**	**79**		**SW846 8270C**
	ND	**111**	**80.5**	**ug/L**	**73**	**8.3**	**SW846 8270C**
Pentachlorophenol	**ND**	**111**	**97.4**	**ug/L**	**88**		**SW846 8270C**
	ND	**111**	**90.3**	**ug/L**	**81**	**7.6**	**SW846 8270C**
Phenanthrene	ND	111	102	ug/L	92		SW846 8270C
	ND	111	95.8	ug/L	86	6.3	SW846 8270C
Phenol	**ND**	**111**	**87.4**	**ug/L**	**79**		**SW846 8270C**
	ND	**111**	**69.0**	**ug/L**	**62**	**24**	**SW846 8270C**
Pyrene	**ND**	**111**	**113**	**ug/L**	**102**		**SW846 8270C**
	ND	**111**	**105**	**ug/L**	**95**	**7.3**	**SW846 8270C**
Pyridine	ND	111	81.2	ug/L	73		SW846 8270C
	ND	111	77.2	ug/L	70	5.0	SW846 8270C
1,2,4-Trichloro-benzene	**ND**	**111**	**106**	**ug/L**	**95**		**SW846 8270C**
	ND	**111**	**95.8**	**ug/L**	**86**	**10**	**SW846 8270C**
2,4,5-Trichloro-phenol	ND	111	103	ug/L	93		SW846 8270C
	ND	111	92.8	ug/L	84	10	SW846 8270C
2,4,6-Trichloro-phenol	ND	111	102	ug/L	92		SW846 8270C
	ND	111	94.0	ug/L	85	8.2	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(36 - 98)
	49	(36 - 98)
Phenol-d5	76	(49 - 109)
	38 *	(49 - 109)
Nitrobenzene-d5	81	(57 - 120)
	71	(57 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H6D030246 **Work Order #...:** H2H391AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030246-005 H2H391AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	96	(56 - 118)
	85	(56 - 118)
2,4,6-Tribromophenol	89	(55 - 134)
	82	(55 - 134)
Terphenyl-d14	92	(33 - 142)
	83	(33 - 142)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Data File: /chem/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h391ac.d
Lab Smp Id: H2H391AC Client Smp ID: G-2906-R1-MAKE-UP W
Inj Date : 18-APR-2006 20:00
Operator : 60841 Inst ID: md.i
Smp Info : H2H391AC,,3,,,MS,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	900.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

04/21/06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	56044	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	176103	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	122919	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	217277	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	225227	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	204233	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	193567	49.3888	54.9
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	271162	57.3571	63.7
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	160941	40.5429	45.0
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	389439	48.0586	53.4
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	91672	66.5377	73.9
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	506681	46.2522	51.4
13 N-Nitrosodimethylamine	74	2.050	2.050	(0.493)	161517	86.3463	95.9
14 Pyridine	79	2.061	2.067	(0.496)	273326	73.0770	81.2

Data File: /chem/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.865	3.871	(0.929)	393309	78.7137	87.4
16 Aniline	93	3.871	3.877	(0.931)	339469	60.8393	67.6
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.945)	263604	75.3870	83.8
18 2-Chlorophenol	128	3.988	3.988	(0.959)	284117	76.4803	85.0
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.992)	335839	78.9457	87.7
20 1,4-Dichlorobenzene (ccc)	146	4.176	4.176	(1.004)	337434	78.5197	87.2
21 Benzyl alcohol	108	4.329	4.323	(1.041)	204466	82.5158	91.7
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.051)	320126	77.7253	86.4
23 2-Methylphenol	108	4.476	4.476	(1.076)	273803	77.1363	85.7
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.082)	417014	69.5880	77.3
25 4-Methylphenol	108	4.652	4.647	(1.119)	586431	158.924	176
26 3&4 Methylphenol	108	4.652	4.647	(1.119)	586431	158.924	176
27 N-Nitroso-di-n-propylamine###	70	4.658	4.658	(1.120)	216837	78.7488	87.5
28 Hexachloroethane	117	4.723	4.723	(1.136)	121313	72.5842	80.6
29 Nitrobenzene	77	4.835	4.835	(0.841)	310790	80.7499	89.7
30 Isophorone	82	5.146	5.146	(0.895)	573090	80.1938	89.1
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	156966	89.9436	99.9
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	189701	49.0098	54.4
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	321170	78.1509	86.8
34 Benzoic acid	122	5.516	5.510	(0.959)	123042	61.5130	68.3
35 2,4-Dichlorophenol (ccc)	162	5.592	5.593	(0.972)	281739	91.4910	102
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	326149	95.1512	106
37 Naphthalene	128	5.775	5.781	(1.004)	846169	82.0565	91.2
38 4-Chloroaniline	127	5.898	5.898	(1.026)	247722	55.7304	61.9
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	199235	80.5569	89.5
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	267216	82.6684	91.8
41 2-Methylnaphthalene	142	6.773	6.773	(1.178)	636506	96.6934	107
42 Hexachlorocyclopentadiene####	237	7.167	7.173	(0.852)	144882	52.5123	58.3
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	230696	91.8450	102
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	258161	92.9434	103
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	638286	86.3492	95.9
46 2-Nitroaniline	65	7.837	7.831	(0.932)	182614	77.6367	86.3
47 Acenaphthylene	152	8.213	8.213	(0.976)	1044263	90.0127	100
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	758171	89.1487	99.0
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	174013	95.7195	106
50 3-Nitroaniline	138	8.413	8.413	(1.000)	151654	69.7144	77.5
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	624098	89.5911	99.5
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.015)	89408	95.4528	106
53 Dibenzofuran	168	8.654	8.648	(1.029)	977664	94.0755	104
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	101335	74.6901	83.0
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	226228	92.3770	103
56 Fluorene	166	9.036	9.036	(1.074)	804059	92.8388	103
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	438374	101.751	113
58 Diethyl phthalate	149	9.024	9.024	(1.073)	703922	84.0973	93.4
59 4-Nitroaniline	138	9.118	9.118	(1.084)	163172	74.1689	82.4
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	135240	98.9298	110
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	528040	92.9163	103

Data File: /chem/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	691326	78.4380	87.2
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	255442	105.643	117
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	263638	87.2147	96.9
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	171515	87.6406	97.4
66 Phenanthrene	178	9.946	9.946	(1.002)	1206035	92.0542	102
67 Anthracene	178	9.987	9.982	(1.006)	1183506	90.2994	100
68 Carbazole	167	10.134	10.134	(1.021)	1043621	84.5140	93.9
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1164587	83.1638	92.4
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1436492	101.510	113
71 Pyrene	202	11.086	11.080	(0.923)	1462807	101.547	113
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	509798	78.9712	87.7
73 Benzo(a)Anthracene	228	11.991	11.991	(0.999)	1341778	90.9834	101
74 3,3'-Dichlorobenzidine	252	11.979	11.973	(0.998)	318754	57.0961	63.4
75 Chrysene	228	12.032	12.026	(1.002)	1330956	94.2535	105
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	692598	84.4216	93.8
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	1181084	79.0983	87.9
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1237439	78.8460	87.6
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1565848	97.7043	108
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.996)	1155242	88.3249	98.1
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1212002	83.6379	92.9
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1038640	85.5145	95.0
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.097)	1076954	87.8683	97.6

Data File: /chem/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h391ac.d
Lab Smp Id: H2H391AC
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2906-R1-MAKE-UP W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	56044	-9.50
2 Naphthalene-d8	196946	98473	393892	176103	-10.58
3 Acenaphthene-d10	140395	70198	280790	122919	-12.45
4 Phenanthrene-d10	245474	122737	490948	217277	-11.49
5 Chrysene-d12	253631	126816	507262	225227	-11.20
6 Perylene-d12	225613	112806	451226	204233	-9.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H391AC
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2906-R1-MAKE-UP W
Operator: 60841
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	111	95.9	86.35	35-150
14 Pyridine	111	81.2	73.08	35-150
15 Phenol (ccc)	111	87.4	78.71	59-117
16 Aniline	111	67.6	60.84	35-150
17 Bis(2-chloroethyl)	111	83.8	75.39	35-150
18 2-Chlorophenol	111	85.0	76.48	63-114
19 1,3-Dichlorobenzen	111	87.7	78.95	35-150
20 1,4-Dichlorobenzen	111	87.2	78.52	65-111
21 Benzyl alcohol	111	91.7	82.52	35-150
22 1,2-Dichlorobenzen	111	86.4	77.73	35-150
23 2-Methylphenol	111	85.7	77.14	35-150
24 2,2'-Oxybis(1-Chlo	111	77.3	69.59	35-150
25 4-Methylphenol	222	176	79.46	35-150
26 3&4 Methylphenol	222	176	79.46	35-150
27 N-Nitroso-di-n-pro	111	87.5	78.75	62-114
28 Hexachloroethane	111	80.6	72.58	35-150
29 Nitrobenzene	111	89.7	80.75	35-150
30 Isophorone	111	89.1	80.19	35-150
31 2-Nitrophenol (ccc	111	99.9	89.94	35-150
32 2,4-Dimethyphenol	111	54.4	49.01	35-150
33 Bis(2-chloroethoxy	111	86.8	78.15	35-150
34 Benzoic acid	111	68.3	61.51	35-150
35 2,4-Dichlorophenol	111	102	91.49	35-150
36 1,2,4-Trichloroben	111	106	95.15	66-113
37 Naphthalene	111	91.2	82.06	60-100
38 4-Chloroaniline	111	61.9	55.73	35-150
39 Hexachlorobutadien	111	89.5	80.56	35-150
40 4-Chloro-3-methylp	111	91.8	82.67	71-118
41 2-Methylnaphthalen	111	107	96.69	35-150
42 Hexachlorocyclopen	111	58.3	52.51	35-150
43 2,4,6-Trichlorophe	111	102	91.84	35-150
44 2,4,5-Trichlorphen	111	103	92.94	35-150
45 2-Chloronaphthalen	111	95.9	86.35	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	111	86.3	77.64	35-150
47 Acenaphthylene	111	100	90.01	60-106
48 Dimethyl phthalate	111	99.0	89.15	35-150
49 2,6-Dinitrotoluene	111	106	95.72	35-150
50 3-Nitroaniline	111	77.5	69.71	35-150
51 Acenaphthene (ccc)	111	99.5	89.59	65-107
52 2,4-Dinitrophenol	111	106	95.45	35-150
53 Dibenzofuran	111	104	94.08	35-150
54 4-Nitrophenol ##sp	111	83.0	74.69	61-128
55 2,4-Dinitrotoluene	111	103	92.38	72-131
56 Fluorene	111	103	92.84	60-113
57 4-Chlorophenyl phe	111	113	101.75	35-150
58 Diethyl phthalate	111	93.4	84.10	35-150
59 4-Nitroaniline	111	82.4	74.17	35-150
60 4,6-Dinitro-2-meth	111	110	98.93	35-150
61 N-Ndpa / diphenyla	111	103	92.92	35-150
62 1,2-Diphenylhydraz	111	87.2	78.44	35-150
63 4-Bromophenyl phen	111	117	105.64	35-150
64 Hexachlorobenzene	111	96.9	87.21	35-150
65 Pentachlorophenol	111	97.4	87.64	71-122
66 Phenanthrene	111	102	92.05	65-108
67 Anthracene	111	100	90.30	67-114
68 Carbazole	111	93.9	84.51	35-150
69 Di-n-butyl phthala	111	92.4	83.16	35-150
70 Fluoranthene (ccc)	111	113	101.51	65-115
71 Pyrene	111	113	101.55	67-114
72 Butyl benzyl phtha	111	87.7	78.97	35-150
73 Benzo(a)Anthracene	111	101	90.98	70-114
74 3,3'-Dichlorobenzi	111	63.4	57.10	35-150
75 Chrysene	111	105	94.25	68-111
76 Bis(2-ethylhexyl)	111	93.8	84.42	35-150
77 Di-n-octyl phthala	111	87.9	79.10	35-150
78 Benzo(b)fluoranthe	111	87.6	78.85	60-120
79 Benzo(k)fluoranthe	111	108	97.70	61-119
80 Benzo(a)pyrene (cc	111	98.1	88.32	67-111
81 Indeno(1,2,3-cd)py	111	92.9	83.64	67-120
82 Dibenz(a,h)anthrac	111	95.0	85.51	71-120
83 Benzo(g,h,i)peryle	111	97.6	87.87	63-120

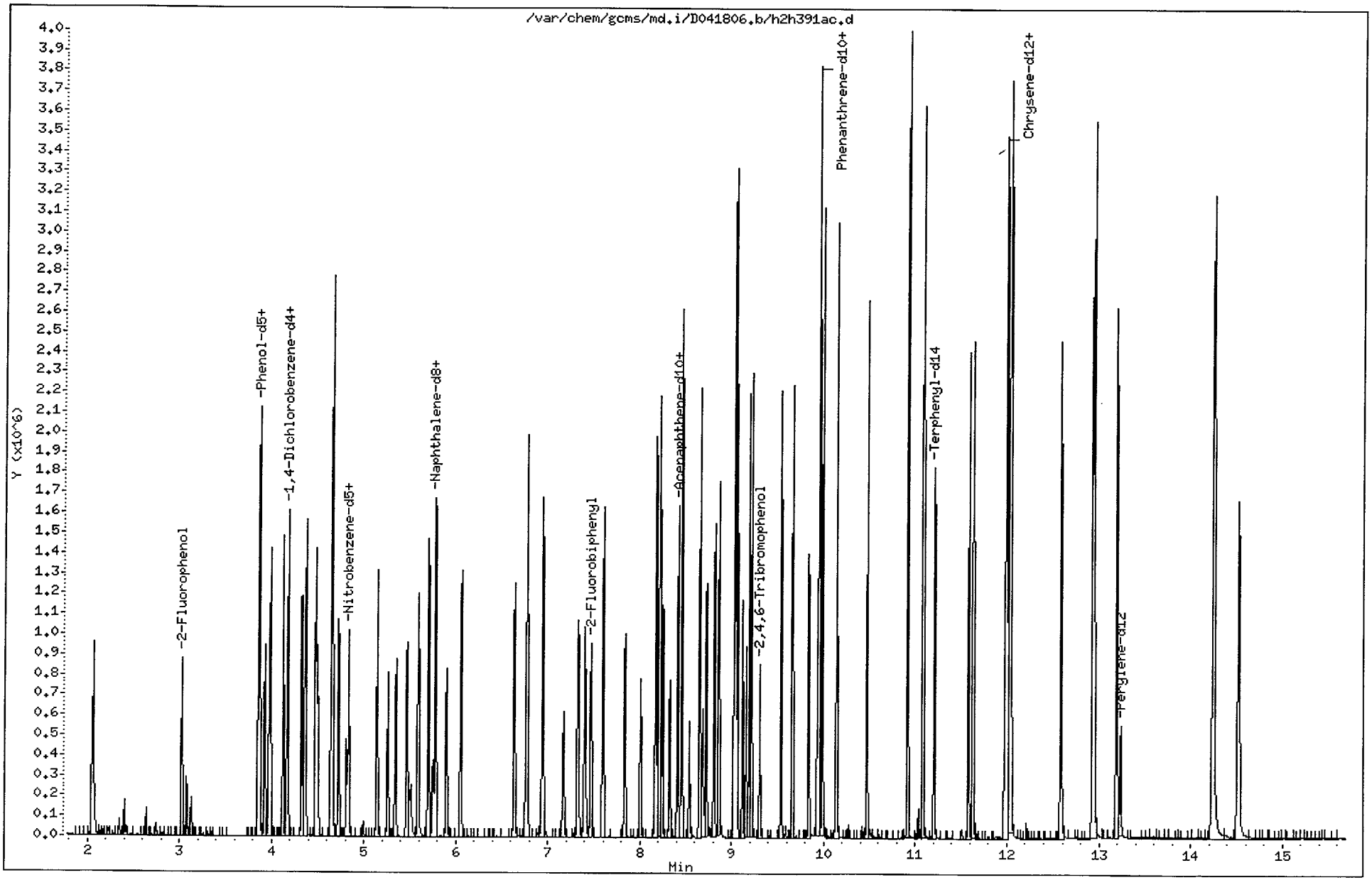
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	83.3	54.9	65.85	36-98
$ 8 Phenol-d5	83.3	63.7	76.48	49-109

Data File: /chem/gcms/md.i/D041806.b/h2h391ac.d
Report Date: 18-Apr-2006 20:16

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	55.6	45.0	81.09	57-120
$ 10 2-Fluorobiphenyl	55.6	53.4	96.12	56-118
$ 11 2,4,6-Tribromophen	83.3	73.9	88.72	55-134
$ 12 Terphenyl-d14	55.6	51.4	92.50	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h391ac.d
Date : 18-APR-2006 20:00
Client ID: G-2906-R1-MAKE-UP W
Sample Info: H2H391AC,,3,,,MS,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

STL Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D041806.b/h2h391ad.d
Lab Smp Id: H2H391AD Client Smp ID: G-2906-R1-MAKE-UP W
Inj Date : 18-APR-2006 20:23
Operator : 60841 Inst ID: md.i
Smp Info : H2H391AD,,3,,,MSD,
Misc Info : D041806,8270a9,8270.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /var/chem/gcms/md.i/D041806.b/8270a9.m
Meth Date : 18-Apr-2006 16:21 mcgeek Quant Type: ISTD
Cal Date : 09-MAR-2006 12:59 Cal File: a9dc098.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	900.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.159	4.165	(1.000)	62247	20.0000	
* 2 Naphthalene-d8	136	5.751	5.751	(1.000)	198118	20.0000	
* 3 Acenaphthene-d10	164	8.413	8.413	(1.000)	137736	20.0000	
* 4 Phenanthrene-d10	188	9.923	9.923	(1.000)	243886	20.0000	
* 5 Chrysene-d12	240	12.009	12.009	(1.000)	251857	20.0000	
* 6 Perylene-d12	264	13.237	13.231	(1.000)	240797	20.0000	
$ 7 2-Fluorophenol	112	3.025	3.025	(0.727)	161538	37.1090	41.2
$ 8 Phenol-d5	99	3.853	3.859	(0.927)	148821	28.3420	31.5(R)
$ 9 Nitrobenzene-d5	82	4.811	4.811	(0.837)	159165	35.6401	39.6
$ 10 2-Fluorobiphenyl	172	7.467	7.467	(0.888)	386108	42.5216	47.2
$ 11 2,4,6-Tribromophenol	330	9.306	9.306	(0.938)	95571	61.7996	68.7
$ 12 Terphenyl-d14	244	11.204	11.210	(0.933)	508743	41.5300	46.1
13 N-Nitrosodimethylamine	74	2.055	2.050	(0.494)	169183	81.4309	90.5
14 Pyridine	79	2.067	2.067	(0.497)	288472	69.4403	77.2

Data File: /chem/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
15 Phenol (ccc)	94	3.871	3.871	(0.931)	344797	62.1280	69.0
16 Aniline	93	3.871	3.877	(0.931)	244105	39.3885	43.8
17 Bis(2-chloroethyl)ether	93	3.930	3.930	(0.945)	263078	67.7388	75.3
18 2-Chlorophenol	128	3.989	3.988	(0.959)	272351	66.0068	73.3
19 1,3-Dichlorobenzene	146	4.124	4.124	(0.992)	342523	72.4928	80.5
20 1,4-Dichlorobenzene (ccc)	146	4.177	4.176	(1.004)	343882	72.0454	80.0
21 Benzyl alcohol	108	4.329	4.323	(1.041)	198825	72.2425	80.3
22 1,2-Dichlorobenzene	146	4.370	4.370	(1.051)	326220	71.3116	79.2
23 2-Methylphenol	108	4.476	4.476	(1.076)	238544	60.5056	67.2
24 2,2'-Oxybis(1-Chloropropane)	45	4.500	4.500	(1.082)	421305	63.2977	70.3
25 4-Methylphenol	108	4.652	4.647	(1.119)	506992	123.703	137
26 3&4 Methylphenol	108	4.652	4.647	(1.119)	506992	123.703	137
27 N-Nitroso-di-n-propylamine###	70	4.658	4.658	(1.120)	221498	72.4249	80.5
28 Hexachloroethane	117	4.723	4.723	(1.136)	126111	67.9356	75.5
29 Nitrobenzene	77	4.835	4.835	(0.841)	321395	74.2263	82.5
30 Isophorone	82	5.146	5.146	(0.895)	583948	72.6331	80.7
31 2-Nitrophenol (ccc)	139	5.263	5.263	(0.915)	162356	82.6941	91.9
32 2,4-Dimethyphenol	107	5.346	5.346	(0.930)	194443	44.6526	49.6
33 Bis(2-chloroethoxy)methane	93	5.469	5.469	(0.951)	330152	71.4094	79.3
34 Benzoic acid	122	5.516	5.510	(0.959)	124200	55.1924	61.3
35 2,4-Dichlorophenol (ccc)	162	5.593	5.593	(0.972)	288380	83.2413	92.5
36 1,2,4-Trichlorobenzene	180	5.698	5.698	(0.991)	332398	86.1985	95.8
37 Naphthalene	128	5.781	5.781	(1.005)	843090	72.6728	80.7
38 4-Chloroaniline	127	5.898	5.898	(1.026)	218825	43.7589	48.6
39 Hexachlorobutadiene (ccc)	225	6.057	6.057	(1.053)	200177	71.9440	79.9
40 4-Chloro-3-methylphenol (ccc)	107	6.638	6.638	(1.154)	264322	72.6865	80.8
41 2-Methylnaphthalene	142	6.774	6.773	(1.178)	642385	86.7424	96.4
42 Hexachlorocyclopentadiene####	237	7.173	7.173	(0.853)	178402	57.7055	64.1
43 2,4,6-Trichlorophenol (ccc)	196	7.326	7.326	(0.871)	238194	84.6288	94.0
44 2,4,5-Trichlorphenol	196	7.402	7.402	(0.880)	260077	83.5603	92.8
45 2-Chloronaphthalene	162	7.596	7.596	(0.903)	662679	80.0050	88.9
46 2-Nitroaniline	65	7.837	7.831	(0.932)	175306	66.5121	73.9
47 Acenaphthylene	152	8.213	8.213	(0.976)	978760	75.2906	83.6
48 Dimethyl phthalate	163	8.178	8.172	(0.972)	769019	80.6967	89.7
49 2,6-Dinitrotoluene	165	8.248	8.242	(0.980)	177887	87.3241	97.0
50 3-Nitroaniline	138	8.413	8.413	(1.000)	146023	59.9045	66.6
51 Acenaphthene (ccc)	153	8.454	8.454	(1.005)	634701	81.3115	90.3
52 2,4-Dinitrophenol ##spcc##	184	8.536	8.536	(1.015)	92672	89.1698	99.1
53 Dibenzofuran	168	8.654	8.648	(1.029)	997134	85.6271	95.1
54 4-Nitrophenol ##spcc##	109	8.683	8.683	(1.032)	104601	68.8039	76.4
55 2,4-Dinitrotoluene	165	8.724	8.718	(1.037)	242847	88.4955	98.3
56 Fluorene	166	9.036	9.036	(1.074)	821994	84.6995	94.1
57 4-Chlorophenyl phenyl ether	204	9.059	9.059	(1.077)	451197	93.4613	104
58 Diethyl phthalate	149	9.024	9.024	(1.073)	713179	76.0373	84.5
59 4-Nitroaniline	138	9.118	9.118	(1.084)	154270	62.5790	69.5
60 4,6-Dinitro-2-methylphenol	198	9.159	9.159	(0.923)	140832	91.7803	102
61 N-Ndpa / diphenylamine (ccc)	169	9.194	9.194	(0.927)	473078	74.1625	82.4

Data File: /chem/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
62 1,2-Diphenylhydrazine/azobnz	77	9.218	9.218	(0.929)	710182	71.7860	79.8
63 4-Bromophenyl phenyl ether	248	9.535	9.535	(0.961)	262842	96.8436	108
64 Hexachlorobenzene	284	9.658	9.658	(0.973)	263708	77.7199	86.4
65 Pentachlorophenol (ccc)	266	9.835	9.835	(0.991)	178506	81.2610	90.3
66 Phenanthrene	178	9.946	9.946	(1.002)	1268542	86.2610	95.8
67 Anthracene	178	9.987	9.982	(1.006)	1204329	81.8627	91.0
68 Carbazole	167	10.134	10.134	(1.021)	1020390	73.6170	81.8
69 Di-n-butyl phthalate	149	10.475	10.475	(1.056)	1226822	78.0495	86.7
70 Fluoranthene (ccc)	202	10.916	10.916	(1.100)	1511584	95.1620	106
71 Pyrene	202	11.086	11.080	(0.923)	1523574	94.5823	105
72 Butyl benzyl phthalate	149	11.586	11.586	(0.965)	532953	73.8288	82.0
73 Benzo(a)Anthracene	228	11.991	11.991	(0.999)	1399138	84.8416	94.3
74 3,3'-Dichlorobenzidine	252	11.973	11.973	(0.997)	237389	38.0257	42.2
75 Chrysene	228	12.032	12.026	(1.002)	1402284	88.8048	98.7
76 Bis(2-ethylhexyl) phthalate	149	12.044	12.044	(1.003)	724229	78.9432	87.7
77 Di-n-octyl phthalate (ccc)	149	12.584	12.584	(0.951)	1262157	71.6928	79.6
78 Benzo(b)fluoranthene	252	12.931	12.931	(0.977)	1310004	70.7952	78.7
79 Benzo(k)fluoranthene	252	12.949	12.949	(0.978)	1674033	88.5939	98.4
80 Benzo(a)pyrene (ccc)	252	13.190	13.190	(0.996)	1186345	76.9302	85.5
81 Indeno(1,2,3-cd)pyrene	276	14.247	14.241	(1.076)	1294970	75.7941	84.2
82 Dibenz(a,h)anthracene	278	14.253	14.247	(1.077)	1115791	77.9172	86.6
83 Benzo(g,h,i)perylene	276	14.523	14.523	(1.097)	1152992	79.7879	88.6

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
Lab File ID: h2h391ad.d
Lab Smp Id: H2H391AD
Analysis Type: SV
Quant Type: ISTD
Operator: 60841
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Calibration Date: 18-APR-2006
Calibration Time: 10:55
Client Smp ID: G-2906-R1-MAKE-UP W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	61924	30962	123848	62247	0.52
2 Naphthalene-d8	196946	98473	393892	198118	0.60
3 Acenaphthene-d10	140395	70198	280790	137736	-1.89
4 Phenanthrene-d10	245474	122737	490948	243886	-0.65
5 Chrysene-d12	253631	126816	507262	251857	-0.70
6 Perylene-d12	225613	112806	451226	240797	6.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.16	3.66	4.66	4.16	-0.14
2 Naphthalene-d8	5.75	5.25	6.25	5.75	0.00
3 Acenaphthene-d10	8.41	7.91	8.91	8.41	0.00
4 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
5 Chrysene-d12	12.01	11.51	12.51	12.01	0.00
6 Perylene-d12	13.23	12.73	13.73	13.24	0.04

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/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2H391AD
Level: LOW
Data Type: MS DATA
SpikeList File: allspike.spk
Sublist File: 8270.sub
Method File: /var/chem/gcms/md.i/D041806.b/8270a9.m
Misc Info: D041806,8270a9,8270.sub

Client SDG: H6D030246
Fraction: SV
Client Smp ID: G-2906-R1-MAKE-UP W
Operator: 60841
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
13 N-Nitrosodimethyla	111	90.5	81.43	35-150
14 Pyridine	111	77.2	69.44	35-150
15 Phenol (ccc)	111	69.0	62.13	59-117
16 Aniline	111	43.8	39.39	35-150
17 Bis(2-chloroethyl)	111	75.3	67.74	35-150
18 2-Chlorophenol	111	73.3	66.01	63-114
19 1,3-Dichlorobenzen	111	80.5	72.49	35-150
20 1,4-Dichlorobenzen	111	80.0	72.05	65-111
21 Benzyl alcohol	111	80.3	72.24	35-150
22 1,2-Dichlorobenzen	111	79.2	71.31	35-150
23 2-Methylphenol	111	67.2	60.51	35-150
24 2,2'-Oxybis(1-Chlo	111	70.3	63.30	35-150
25 4-Methylphenol	222	137	61.85	35-150
26 3&4 Methylphenol	222	137	61.85	35-150
27 N-Nitroso-di-n-pro	111	80.5	72.42	62-114
28 Hexachloroethane	111	75.5	67.94	35-150
29 Nitrobenzene	111	82.5	74.23	35-150
30 Isophorone	111	80.7	72.63	35-150
31 2-Nitrophenol (ccc	111	91.9	82.69	35-150
32 2,4-Dimethyphenol	111	49.6	44.65	35-150
33 Bis(2-chloroethoxy	111	79.3	71.41	35-150
34 Benzoic acid	111	61.3	55.19	35-150
35 2,4-Dichlorophenol	111	92.5	83.24	35-150
36 1,2,4-Trichloroben	111	95.8	86.20	66-113
37 Naphthalene	111	80.7	72.67	60-100
38 4-Chloroaniline	111	48.6	43.76	35-150
39 Hexachlorobutadien	111	79.9	71.94	35-150
40 4-Chloro-3-methylp	111	80.8	72.69	71-118
41 2-Methylnaphthalen	111	96.4	86.74	35-150
42 Hexachlorocyclopen	111	64.1	57.71	35-150
43 2,4,6-Trichlorophe	111	94.0	84.63	35-150
44 2,4,5-Trichlorphen	111	92.8	83.56	35-150
45 2-Chloronaphthalen	111	88.9	80.01	35-150

Data File: /chem/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
46 2-Nitroaniline	111	73.9	66.51	35-150
47 Acenaphthylene	111	83.6	75.29	60-106
48 Dimethyl phthalate	111	89.7	80.70	35-150
49 2,6-Dinitrotoluene	111	97.0	87.32	35-150
50 3-Nitroaniline	111	66.6	59.90	35-150
51 Acenaphthene (ccc)	111	90.3	81.31	65-107
52 2,4-Dinitrophenol	111	99.1	89.17	35-150
53 Dibenzofuran	111	95.1	85.63	35-150
54 4-Nitrophenol ##sp	111	76.4	68.80	61-128
55 2,4-Dinitrotoluene	111	98.3	88.50	72-131
56 Fluorene	111	94.1	84.70	60-113
57 4-Chlorophenyl phe	111	104	93.46	35-150
58 Diethyl phthalate	111	84.5	76.04	35-150
59 4-Nitroaniline	111	69.5	62.58	35-150
60 4,6-Dinitro-2-meth	111	102	91.78	35-150
61 N-Ndpa / diphenyla	111	82.4	74.16	35-150
62 1,2-Diphenylhydraz	111	79.8	71.79	35-150
63 4-Bromophenyl phen	111	108	96.84	35-150
64 Hexachlorobenzene	111	86.4	77.72	35-150
65 Pentachlorophenol	111	90.3	81.26	71-122
66 Phenanthrene	111	95.8	86.26	65-108
67 Anthracene	111	91.0	81.86	67-114
68 Carbazole	111	81.8	73.62	35-150
69 Di-n-butyl phthala	111	86.7	78.05	35-150
70 Fluoranthene (ccc)	111	106	95.16	65-115
71 Pyrene	111	105	94.58	67-114
72 Butyl benzyl phtha	111	82.0	73.83	35-150
73 Benzo(a)Anthracene	111	94.3	84.84	70-114
74 3,3'-Dichlorobenzi	111	42.2	38.03	35-150
75 Chrysene	111	98.7	88.80	68-111
76 Bis(2-ethylhexyl)	111	87.7	78.94	35-150
77 Di-n-octyl phthala	111	79.6	71.69	35-150
78 Benzo(b)fluoranthe	111	78.7	70.80	60-120
79 Benzo(k)fluoranthe	111	98.4	88.59	61-119
80 Benzo(a)pyrene (cc	111	85.5	76.93	67-111
81 Indeno(1,2,3-cd)py	111	84.2	75.79	67-120
82 Dibenz(a,h)anthrac	111	86.6	77.92	71-120
83 Benzo(g,h,i)peryle	111	88.6	79.79	63-120

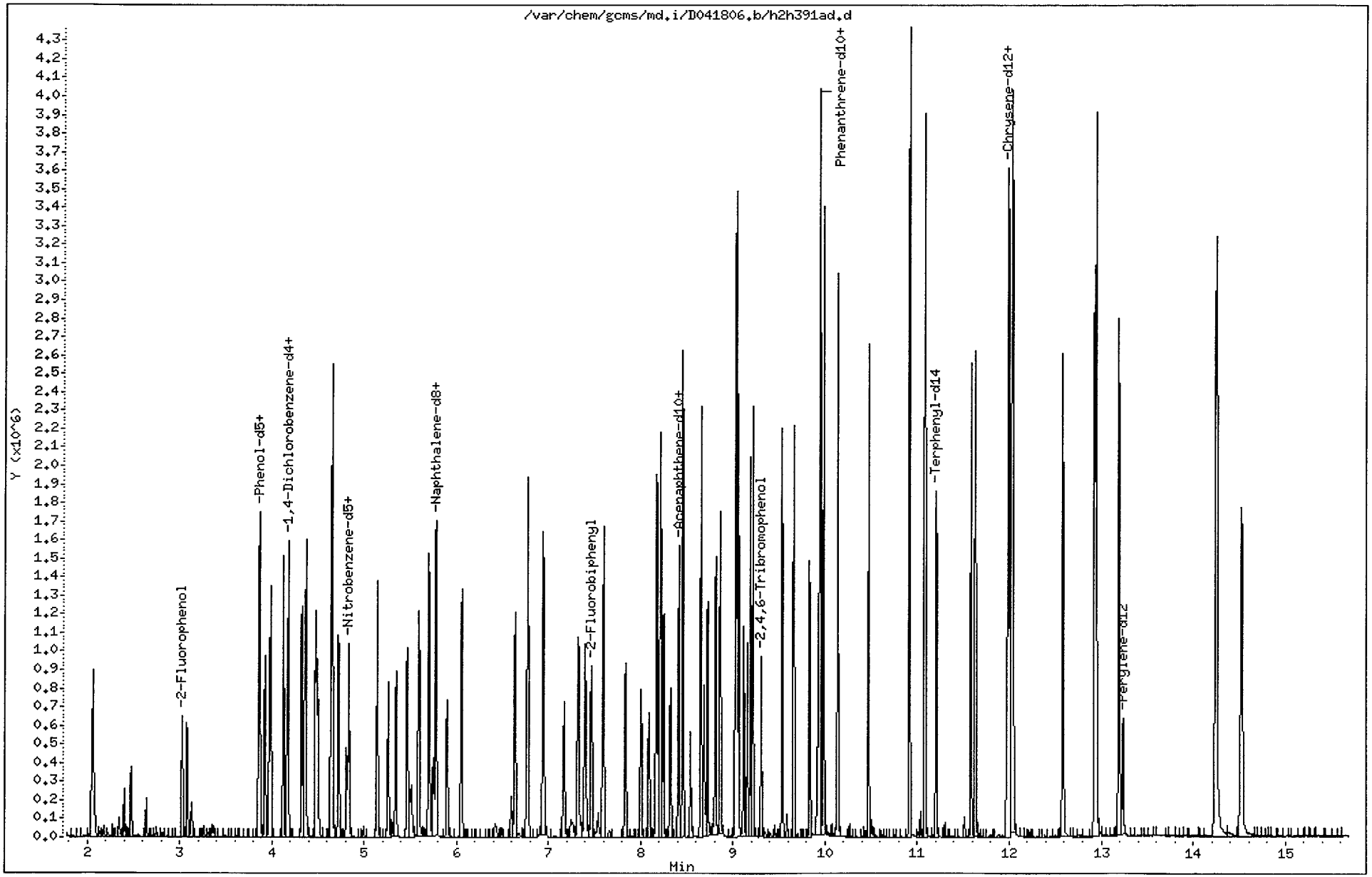
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	83.3	41.2	49.48	36-98
$ 8 Phenol-d5	83.3	31.5	37.79*	49-109

Data File: /chem/gcms/md.i/D041806.b/h2h391ad.d
Report Date: 18-Apr-2006 20:40

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 9 Nitrobenzene-d5	55.6	39.6	71.28	57-120
$ 10 2-Fluorobiphenyl	55.6	47.2	85.04	56-118
$ 11 2,4,6-Tribromophen	83.3	68.7	82.40	55-134
$ 12 Terphenyl-d14	55.6	46.1	83.06	33-142

Data File: /var/chem/gcms/md.i/D041806.b/h2h391ad.d
Date : 18-APR-2006 20:23
Client ID: G-2906-R1-MAKE-UP W
Sample Info: H2H391AD,,3,,,MSD,
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Miscellaneous Data

STL Knoxville Semivolatile GC/MS Data Review / Narrative Checklist Lot/Project # H6D030246
Method 8270C - KNOX-MS-0016, Rev 6 & Method TO-13A Mod – KNOX-MS-0017, Rev 1 Page 1 of 2

Instrument:	MD					
Scanned File Names:	D030906I					
	D041806					

Review Items **A. Tune / Calibration**	N/A	Yes	No	If No, why is data reportable?	2nd ☐
1. Were all samples injected within 12 hr of DFTPP?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. Client Sample and QC Sample Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution/split factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were the analytes that were not automatically identified in the CCAL searched for manually in the samples?		✓			
5. Sample prep and analyses done within preparation and analytical holding time (HT)? *If no, list samples and NCM #:* _____		✓		☐ [ht1] HT expired upon receipt. ☐ *[ht2] Client requested analysis after HT expired.** ☐ **Re-extraction done after HT expired. See [sur4] or[sur2]**	✓
6. Are surrogates and internal standards within QC limits? *If no, list samples, reason (e.g.,* **sur1***) and NCM #:* 08-06165 08-06166 Sample / Reason: 001 sur1; 002 sur3; 003 sur3; 004 sur3; 006 sur7; 009 sur3; 010 sur~~3~~7; 011 sur~~7~~3; 013 sur3 KBM 4/20/06			✓	☑ [sur1] MS/MSD surr.%R demonstrated same effect. ☐ [sur2] Re-extraction demonstrated same effect. ☑ **[sur3] Not enough sample for re-extraction.** ☐ **[sur4] Re-extraction done outside HT. Rerun shows original %R were wrong; both data reported.** ☐ **[sur5] Upon client approval, data was flagged as estimated & released without further investigation.*** ☑ [sur7] Obvious matrix interference. Explain: 001, 006, 011 all exhibited similar recovery problems with surrogates. ☐ **[hydr1] H-D exchange; sample reextracted.** ☐ **[hydr2] H-D exchange; affected analytes reported on diluted analysis** ☐ **[sur12] Surr.%R high and all targets ND.** ☐ **[sur13] Surr.%R low. Sample consumed.** ☐ **[sur14] Surr.%R high. Sample consumed.** ☐ [isc1] Samples bracketed by acceptable runs.	✓
6. Are internal standards <0.5min of last CCAL?		✓			
7. Were positive hits evaluated using qualitative identification criteria and technical judgment?		✓			
8. Are positive results within calibration range? *If no, list samples:* _____		✓		☐ [dil5] At client's request, sample was analyzed with minimum dilution even though some analytes were outside of calibration range.*	
9. For initial analysis that's a dilution, was the largest analyte > 20% of calibration range? *List diluted samples and reason (e.g.,* **elev1***):* Sample(s): #1,6,10 elev4		✓		☐ [elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. ☐ [elev2] Elevated RL for (ANALYTE) due to interfering analyte. ☐ [elev3] Elevated RLs for all analytes due to difficult sample matrix. ☐ [elev4] Diluted based on screening results. ☐ [elev5] Elevated RLs for all analytes due to presence of non-target compounds.	✓

* Such action must be taken in consultation with client.

NOTE: Nonconformance memos are required for **bold** and *italicized* autotext statements: **Bold** = deficiency, *italicized* = anomaly.

STL Knoxville Semivolatile GC/MS Data Review / Narrative Checklist Lot/Project # H6D030246
Method 8270C - KNOX-MS-0016, Rev 6 & Method TO-13A Mod – KNOX-MS-0017, Rev 1 Page 2 of 2

B. Client Sample and QC Sample Results	N/A	Yes	No	If No, why is data reportable?	2nd ☐
10. If amount extracted was < 80% of nominal amount, were the RLs/MDLs adjusted? List samples:		✓		☐ [elev6] Elevated RLs for all analytes due to insufficient sample amount received.	✓
11. If samples were split, are the dilution factores & prep factors applied properly & MDL/RLs adjusted?	✓	✓ 04/21/06		☐ [elev7] Elevated RLs for all analytes due to split; list samples:	NA
12. For secondary diluted analyses to bring compounds in calibration range, was the largest analyte targeted to be above 50% of calibration range? *List diluted samples and reason (e.g.,* **dil1***):* Sample / Reason: ~~001~~ dil 1; 006 dil 1; ~~010~~ dil 1 ✓ 04/21/06	✓	✓ 04/21/06	✗	☑ [dil1] Conc. of (ANALYTE) > calibration range. RLs adjusted accordingly. ☐ [dil2] Conc. of several compounds > calibration range. RLs adjusted accordingly. ☑ [dil3] Conc. of (ANALYTE) > calibration range. Both analyses reported to provide lowest RLs. ☐ [dil4] Conc. of several compounds > calibration range. Both analyses reported to provide lowest RLs.	NA
13. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?		✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
14. Have alternate hits and manual integrations been verified as correct?		✓			✓
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID and NCM #:* H2H9X1AC NCM #08-06165			✓	☑ **[lcs2] Insufficient sample for reanalysis.*** ☐ **[lcs3] LCS %R high and all analyte(s) were <RL in associated samples.** ☐ **[lcs4] Entire sample consumed.** o **[lcs RPD] RPD out, BUT % R OK.**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		☐ **[mb1] Sample surrogates OK and there is no analyte >RL in samples associated with blank.*** ☐ **[mb7] Entire sample consumed.**	✓
4. Are all analytes present in the method blank < ½ RL, < RL for phthalates? *If no, list blank ID and NCM #:*		✓		☐ **[mb3] No analyte > RL in associated samples.*** ☐ **[mb4] Sample results > 20x higher than blank.** ☐ **[mb5] Insufficient sample for reanalysis.*** ☐ **[mb8] Entire sample consumed.** ☐ **[mb9] >1/2 RL but < RL.**	✓
5. MS/MSD (or sample dup for TO13A) done per batch? Batch:		✓		☐ [lcsd] Insufficient sample. LCS/LCSD analyzed. ☐ [lcsd1]LCS/LCSD analyzed for method precision(TO-13)	✓
6. If MS/MSD was done on this client's sample or for reported batch QC, were the MS/MSD recoveries and RPDs within laboratory generated QC limits? *If no, list MS/MSD ID:* 001, ~~002~~, 004, ~~005~~ ✓ 04/21/06 # 2.5 – noncontrol analytes			✓	☑ [ms1] LCS acceptable - sample matrix effects. ☐ [ms2] LCS acceptable. High native analyte concentration relative to spike level. ☐ [rpd] LCS acceptable. RPD out due to lack of sample homogeneity.	✓
7. Were MS run #'s assigned correctly?		✓			✓
D. Other					
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
2. Are all nonconformances documented appropriately and copy included with deliverable?		✓			✓
3. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓
4. Were the standards scanned properly with runlogs?		✓			✓
5. Was a narrative prepared and all deviations noted?		✓			✓

Analyst: KRM	Date: 4/20/06	2nd Level Reviewer: [signature]	Date: 04/21/06
Comments:		Comments:	

* Such action must be taken in consultation with client

939

BNA (8270c)

STL KNOXVILLE

Extraction Sheet - Soils

Batch 6094075

Extracted By/Date: Raj 4.4.06

Extract Concentration By/Date: AJR 4-4-06

GPC Cleanup By/Date: NA

GPC Extract Conc By/Date: ↓

Florisil Cleanup By/Date: ↓

Final Conc By/Date: ↓

Sulfuric Acid Cleanup By/Date: NA

SOP # π KNOX-OP-0011 or

Spiked by: Raj

Witness Surr/Spike: mgr

Conc Method Used: KD Rapid Vap

Conc Method Used: NA

Florisil Lot # ↓

Reagent Lot No:

Methylene Chloride C03E68

Acetone B32E42

Sodium Sulfate B09615

Hexane NA

Sulfuric Acid ↓

Other ↓

Sample Lot Numbers: H6D030246

Relinquished by: AJK Date: 4-4-06 Time: 15:40

Received by: KRM Date: ↓ Time: ↓

Comments:

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/04/06
Time: 12:41:19

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 888811 Rajnikant Contractor
Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6094075

PREP DATE: 4/04/06 9:30
COMP DATE: 4/04/06 11:00

Reviewer/Date: RIBETA / 4/04/06

Base/Neutrals and Acids (8270C)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030246-001 **H2H34-1-AA**	D	13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP50209 500 UL
COMMENTS:		pH5													
4/11/06	4/24/06	H6D030246-001 **H2H34-1-ACS**	D	13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH5													
4/11/06	4/24/06	H6D030246-001 **H2H34-1-ADD**	D	13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH5													
4/12/06	4/24/06	H6D030246-006 **H2H4A-1-AA**	D	13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP50209 500 UL
COMMENTS:		pH5													
4/13/06	4/24/06	H6D030246-010 **H2H4F-1-AA**	D	13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/11/06	0/00/00	H6D040000-075 **H2H9W-1-AA**B		13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP50209 500 UL
COMMENTS:															
4/11/06	0/00/00	H6D040000-075 **H2H9W-1-AC**C		13	QL	SOLID	**30.0g** 1.00mL	NA	NA	NA	METH/ACE	300.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

941

L

BNA 8270C

STL KNOXVILLE

Extraction Sheet - Waters

Batch 6094076

Extracted By: MJR

Extraction Start time/date 13:15 4.4.06

Extraction Start time/date 11:00 4.5.06

Extraction Conc by/date ADR 4-6-06

SOP # ρ KNOX-OP-0011 or _____

Spiked by: MJR

Witness Surr/Spike: Ray

Extraction Stop Time/Date: 7:15 4.5.06

Extraction Stop Time/Date: 7:00 4-6-06

Conc. Method Used: (KD) Rapid Vap

Glassware inspected by: ADR

Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:

Methylene Chloride C03E68

Acetone NA

Sodium Sulfate B09615

Hexane NA

Sulfuric Acid B05H10

Sodium Hydroxide 054174

Other NA

Sample Lot Numbers: H6D030246

Relinquished by: ADR Date: 4-7-06 Time: 14:20

Received by: KRM Date: ↓ Time: ↓

Comments: Samples: H2H35 (MS, MSD); H2H4C & H2H4G were all muddy and Brown in appearance.
H2H38 (MS & MSD) - Formed 2 layers in the extract & percipitation formed on the walls of the CLL during extraction.
H2H4E & H2H4J - Did Not Hold Pink Color during extraction.

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/07/06
Time: 11:56:31

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 060062 Marcus J. Ramsey

Concentrationist: 0I4113 Annette J. Ribet

Reviewer/Date: RIBETA / 4/07/06

QC BATCH: 6094076

PREP DATE: 4/04/06 13:15
COMP DATE: 4/06/06 7:00

Base/Neutrals and Acids (8270C)
LIQ/LIQ, CONT (A/B/N) - Acid->Base

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/04/06	4/24/06	H6D030246-002 **H2H35-1-AA**	D	49	QL	WATER	**950mL** 1.00mL	2.0	12.0	NA	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-002 **H2H35-1-ACS**	D	49	QL	WATER	**950mL** 1.00mL	2.0	12.0	NA	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-002 **H2H35-1-ADD**	D	49	QL	WATER	**950mL** 1.00mL	2.0	12.0	NA	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-003 **H2H37-1-AA**	D	49	QL	WATER	**960mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-003 **H2H37-1-ACS**	D	49	QL	WATER	**960mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-003 **H2H37-1-ADD**	D	49	QL	WATER	**960mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-004 **H2H38-1-AA**	D	49	QL	WATER	**100mL** 1.00mL	14.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/07/06
Time: 11:56:31

QC BATCH: 6094076

PREP DATE: 4/04/06 13:15
COMP DATE: 4/06/06 7:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/04/06	4/24/06	H6D030246-004 **H2H38-1-ACS**	D	49	QL	WATER	**100mL** 1.00mL	14.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-004 **H2H38-1-ADD**	D	49	QL	WATER	**100mL** 1.00mL	14.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-005 **H2H39-1-AA**	D	49	QL	WATER	**900mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-005 **H2H39-1-ACS**	D	49	QL	WATER	**900mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/04/06	4/24/06	H6D030246-005 **H2H39-1-ADD**	D	49	QL	WATER	**900mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:		pH6													
4/05/06	4/24/06	H6D030246-007 **H2H4C-1-AA**	D	49	QL	WATER	**990mL** 1.00mL	2.0	12.0	NA	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/05/06	4/24/06	H6D030246-008 **H2H4D-1-AA**	D	49	QL	WATER	**980mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/05/06	4/24/06	H6D030246-009 **H2H4E-1-AA**	D	49	QL	WATER	**940mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/06/06	4/24/06	H6D030246-011 **H2H4G-1-AA**	D	49	QL	WATER	**930mL** 1.00mL	6.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/06/06	4/24/06	H6D030246-012 **H2H4H-1-AA**	D	49	QL	WATER	**920mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/07/06
Time: 11:56:31

QC BATCH: 6094076

PREP DATE: 4/04/06 13:15
COMP DATE: 4/06/06 7:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/06/06	4/24/06	H6D030246-013 **H2H4J-1-AA**	D	49	QL	WATER	**960mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:		pH6													
4/04/06	0/00/00	H6D040000-076 **H2H9X-1-AA**B		49	QL	WATER	**1000mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP50209 500 UL
COMMENTS:															
4/04/06	0/00/00	H6D040000-076 **H2H9X-1-AC**C		49	QL	WATER	**1000mL** 1.00mL	7.0	2.0	12.0	MECL2	450.0		.0	OP60101 1.0 ML OP50209 500 UL
COMMENTS:															

SEE COVER SHEET.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 20

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #013 [Process Sample SVOCs]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030246
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Semivolatile Organic Compounds (SVOCs)	14 Days from Sample Collection to Extraction. 40 Days from Extraction to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2890-R1-Spent Activated Carbon	3-28-06	MS/MSD	125 mL Powder Jar	**Spent Activated Carbon - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2894-R1-Scrubber Blowdown	3-28-06	MS/MSD	3 X 1 Liter Amber Boston Rounds	**Scrubber Blowdown - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2898-R1-POTW Discharge	3-28-06	MS/MSD	3 X 1 Liter Amber Boston Rounds	**POTW Discharge - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2902-R1-Caustic Feed	3-28-06	MS/MSD	3 X 1 Liter High Density Polyethylene Bottle	**Caustic Feed - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2906-R1-Make-Up Water	3-28-06	MS/MSD	3 X 1 Liter Amber Boston Rounds	**Make-Up Water - Run #1** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2988-R2-Spent Activated Carbon	3-29-06		125 mL Powder Jar	**Spent Activated Carbon - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2992-R2-Scrubber Blowdown	3-29-06		1 Liter Amber Boston Round	**Scrubber Blowdown - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-2996-R2-POTW Discharge	3-29-06		1 Liter Amber Boston Round	**POTW Discharge - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.

Request for Analysis/Chain-of-Custody – RFA/COC #013 [Process Sample SVOCs]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3000-R2-Caustic Feed	Not Sampled		1 Liter High Density Polyethylene Bottle	**Caustic Feed - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3004-R2-Make-Up Water	3-29-06		250 mL Amber Boston Round	**Make-Up Water - Run #2** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3071-R3-Spent Activated Carbon	3-30-06		125 mL Powder Jar	**Spent Activated Carbon - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3075-R3-Scrubber Blowdown	3-30-06		1 Liter Amber Boston Round	**Scrubber Blowdown - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3079-R3-POTW Discharge	3-30-06		1 Liter Amber Boston Round	**POTW Discharge - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3083-R3-Caustic Feed	Did not		1 Liter High Density Polyethylene Bottle	**Caustic Feed - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.
G-3087-R3-Make-Up Water	3-30-06		250 mL Amber Boston Round	**Make-Up Water - Run #3** Semivolatiles Analysis	Prepare and analyze the sample for Semivolatiles including PICs by GC/MS by Method SW-8270C.

Request for Analysis/Chain-of-Custody – RFA/COC #013 [Process Sample SVOCs]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H6D030246

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	N/A
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	5.0 °C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	N/A

Custody Transfer:

Hand delivered

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	[signature]	STL-Knoxville	4/3/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus **Project:** WestAtes Carbon **Lot Number:** H6D030246

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14 A (COC wasn't relinquished (signed, date or time)
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present hand delivered ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?				☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4/3/06

QA026R18.doc, 1/30/06