Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	Spectrum Analytical, Inc., Tampa, FL	SDG No.:	3507616
Method:	SW-846 8270D SIM (PAH) & Full scan (TCL SVOC)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	11/14/2012
Reviewer:	Nicole Lancaster	Date:	01/04/12
Concurrence[1]:	Martha Meyers-Lee	Date:	01/09/12

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (8270: ≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?		✓		Spectrum does not analyze a low calibration standard at the requested reporting limit for all target analytes. According to the Case Narrative associated with the SW-846 8270D Full Scan analyses, the low calibration standard for 4,6-dinitro-2-methylphenol is 500 µg/Kg.	
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.		✓		Analyte concentrations that are greater than the calibration range of the instrument, which are presented in the laboratory report with an E-flag, are not as accurate as those results obtained from a more diluted analysis and fall within the calibration range of the instrument. Less accurate sample results (i.e., E-flagged and over-diluted sample results) have been R-flagged in all samples, except FM0126C-GS-SP	J, R

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				(3507616-13). Sample FM0126C-GS-SP was not reanalyzed for PAHs at a higher dilution; therefore, all E-flag PAH data for sample FM0126C-GS-SP has been qualified as estimated (J-flag).	
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		Target analytes were not detected during the analysis of rinsate blank RB-11-13-12 (3507601-11).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			A rinsate blank (RB-11-13-12) was collected during the week of 11/12/12. The rinsate blank was analyzed under SDG 3507601.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this SDG?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., CLP SOM01.2) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• 8270D SIM: o ICAL: 11/20/12, Instrument SMSD03 o ICV: 11/20/12 @ 20:13 o CCV: 11/21/12 @ 19:01 o CCV: 11/26/12 @ 18:16 o ICAL: 11/14/12, Instrument SMSD04 o ICV: 11/14/12 @ 22:19 o CCV: 11/26/12 @ 16:44 • 8270D Full scan: o ICAL: 11/14/12-11/15/12, Instrument SMSD04 o ICV: 11/15/12 @ 01:07, 09:04, and 11:51 o CCV: 11/26/12 @17:04, 17:25, and 17:46	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no individual CCC %RSD ≤30 (≤50% for poor performers), Or r≥0.995, Or r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds		✓		• 8270D SIM: o ICAL of 11/20/12, Instrument SMSD03: Benzo(k)fluoranthene @18.3%RSD (Lab/Project: ≤15). J-flag results in associated samples[2]. o CCV: 11/26/12 @18:16, Instrument SMSD03. ▪ Indeno(1,2,3-cd)pyrene @39.8%D (Lab/Project: ≤20). ▪ Dibenzo(a,h)anthracene @50.8%D (Lab/Project: ≤20). ▪ Benzo(g,h,i)perylene @38.6%D (Lab/Project: ≤20). Results for indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, & benzo(g,h,i)perylene have previously been R-flagged in associated samples[3], because more accurate data were available from the undiluted sample analysis; further qualification of data is not warranted. o ICV of 11/14/12 @ 22:19, Instrument SMSD04. 2-Methylnaphthalene @21.1%D (Lab/Project: ≤20). J/UJ-flag results in associated samples[4]. • 8270D SIM: o ICV of 11/15/12 @ 01:07, Instrument SMSD04: 4-Nitroaniline @21.3%D (Lab: ≤20, Project: ≤50). Qualification of data in associated samples[2] is not warranted, as 4-nitroaniline is a poor performer and the %D is less than 50.	J, UJ
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >UCL and J/R-flag results when %R <LCL	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			• 8270D SIM, Prep Batch 11607: 3507616-03 (CV0043A-CS) • 8270D Full scan, Prep Batch 11608: 3507616-13	

[2] All samples, except 3507616-05 and -13
[3] Laboratory Sample IDs 3507616-08DL, -09DL, -10DL, -15DL, and -19DL
[4] Laboratory Sample IDs 3507616-05 and -13

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				(FM0126C-GS-SP)	
24. Is the MS/MSD parent sample a project-specific sample?	✓				
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		✓		Refer to **Attachment B**	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result		✓		Refer to **Attachment B**	J
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LL, then J-flag positive and UJ-flag non-detect results • If 2 or more Acid or BN, with 1 %R >UL and 1 %R ≥10%, but <LL, then J-flag positive and UJ-flag non-detect results		✓		8270D SIM: Benzo(e)pyrene-d12 was recovered low, outside of laboratory control limits of 50-140%R for soil samples CV0192B-CS (3507616-06), FM0263C-CS-SP (3507616-10), CV0699C-CS (3507616-16), FM0210A-CS (3507616-17), FM0210B-CS (3507616-18) and all diluted samples (Refer to **Attachment C**). Results for undiluted soil samples are estimated (J/UJ), because a low surrogate recovery is indicative of a negative bias. Qualification of data for the diluted samples is not necessary, because the surrogate was diluted out of the sample. The retention time (i.e., 0) reported on Form 8 for FM0263A-CS-SPDL1 (3507616-08DL1), FM0263B-CS-SPDL1 (3507616-09DL1), FM0263C-CS-SPDL1 (3507616-10DL1), CV0699B-CSDL1 (3507616-15DL1), and FM0210C-CSDL1 (3507616-19DL1) was outside of the retention time window of 12.02-13.22	J/UJ

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				minutes. Qualification of data for the diluted samples is not necessary, because the surrogate was not recovered due to sample dilution.	
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment D** (Case Narratives)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment E**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Method: 8270 SIM

EPA Sample No	Lab Sample ID
CV0041A-CS	350761601
CV0041B-CS	350761602
CV0043A-CS	350761603
CV0043B-CS	350761604
CV0043C-CS	350761605
CV0192A-CS	350761606
CV0192B-CS	350761607
FM0263A-CS-SP	350761608
FM0263A-CS-SPDL1	350761608DL1
FM0263B-CS-SP	350761609
FM0263B-CS-SPDL1	350761609DL1
FM0263C-CS-SP	350761610
FM0263C-CS-SPDL1	350761610DL1
FM0126A-CS-SP	350761611
FM0126B-CS-SP	350761612
FM0126C-GS-SP	350761613
CV0699A-CS	350761614
CV0699B-CS	350761615
CV0699B-CSDL1	350761615DL1
CV0699C-CS	350761616
FM0210A-CS	350761617
FM0210B-CS	350761618
FM0210C-CS	350761619
FM0210C-CSDL1	350761619DL1
CV0362A-CS	350761620

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SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Method: 8270

EPA Sample No	Lab Sample ID
CV0043C-CS	350761605
FM0126C-GS-SP	350761613

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ATTACHMENT B

MATRIX SPIKE & MATRIX SPIKE DUPLICATE RESULTS

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

CV0043A-CSMS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Naphthalene	26	90	99	35.5 *	59 - 111
2-Methylnaphthalene	26	89	100	51.2 *	54 - 145
1-Methylnaphthalene	26	54	74	80.9	71 - 132
Acenaphthylene	26	16	170	615.0 *	54 - 115
Acenaphthene	26	5.9	30	94.1	57 - 119
Fluorene	26	6.4	140	541.0 *	59 - 118
Phenanthrene	26	100	1500	5383.0 *	54 - 112
Anthracene	26	20	270	988.0 *	40 - 138
Fluoranthene	26	170	2100	7383.0 *	55 - 132
Pyrene	26	150	1400	5094.0 *	55 - 123
Benzo(a)anthracene	26	130	1400	5113.0 *	53 - 119
Chrysene	26	140	960	3219.0 *	34 - 140
Benzo(b)fluoranthene	26	230	760	2047.0 *	50 - 171
Benzo(k)fluoranthene	26	79	710	2474.0 *	32 - 158
Benzo(a)pyrene	26	120	740	2414.0 *	20 - 120
Indeno(1,2,3-cd)pyrene	26	75	440	1415.0 *	19 - 122
Dibenzo(a,h)anthracene	26	27	220	755.0 *	41 - 114
Benzo(g,h,i)perylene	26	95	410	1241.0 *	50 - 150

Spike Recovery: 16 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

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SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: CV0043A-CSMSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Remo

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	Action
Naphthalene	26	83	0.0 *	17.2	30	59 - 111	J-Flag
2-Methylnaphthalene	26	92	13.3 *	10.0	30	54 - 145	J-Flag
1-Methylnaphthalene	26	66	48.4 *	11.8	30	71 - 132	None (1)
Acenaphthylene	26	40	97.7	124.1 *	30	54 - 115	J-Flag
Acenaphthene	26	27	81.2	11.6	30	57 - 119	None (2)
Fluorene	26	29	86.7	134.1 *	30	59 - 118	J-Flag
Phenanthrene	26	110	15.6 *	173.3 *	30	54 - 112	
Anthracene	26	41	80.5	148.1 *	30	40 - 138	
Fluoranthene	26	180	23.4 *	168.5 *	30	55 - 132	None (3)
Pyrene	26	150	27.3 *	161.8 *	30	55 - 123	
Benzo(a)anthracene	26	170	164.0 *	157.1 *	30	53 - 119	
Chrysene	26	160	62.5	144.3 *	30	34 - 140	
Benzo(b)fluoranthene	26	160	0.0 *	131.2 *	30	50 - 171	
Benzo(k)fluoranthene	26	170	369.0 *	121.8 *	30	32 - 158	J-Flag
Benzo(a)pyrene	26	160	141.0 *	129.9 *	30	20 - 120	None (3)
Indeno(1,2,3-cd)pyrene	26	120	169.0 *	115.0 *	30	19 - 122	J-Flag
Dibenzo(a,h)anthracene	26	73	180.0 *	100.5 *	30	41 - 114	
Benzo(g,h,i)perylene	26	130	128.0	105.4 *	30	50 - 150	

RPD: 14 out of 18 outside limits

Spike Recovery: 12 out of 18 outside limits

(1) Qualification of data is not required, because the matrix spike recovery met laboratory control limits.
(2) MS and MSD criteria met.
(3) Evaluation of matrix interference is not possible, because the native sample concentration is greater than four times the spiking level.

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1659

ATTACHMENT C

SW-846 8270D-SIM SURROGATE RECOVERIES

2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 3507616

Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
154206MB	100.0						0
154207LCS	111.0						0
CV0041A-CS	66.1						0
CV0041B-CS	58.9						0
CV0043A-CS	66.8						0
CV0043B-CS	61.7						0
CV0043C-CS	61.2						0
CV0192A-CS	50.0						0
CV0192B-CS	46.7 *						1
CV0362A-CS	54.5						0
CV0699A-CS	57.1						0
CV0699B-CS	56.7						0
CV0699B-CSDL1	0.0 D						0
CV0699C-CS	27.4 *						1
FM0126A-CS-SP	53.2						0
FM0126B-CS-SP	56.1						0
FM0126C-GS-SP	57.0						0
FM0210A-CS	16.9 *						1
FM0210B-CS	41.9 *						1
FM0210C-CS	71.2						0
FM0210C-CSDL1	0.0 D						0
FM0263A-CS-SP	58.4						0
FM0263A-CS-SPDL1	0.0 D						0
FM0263B-CS-SP	60.4						0

Control Limits

S1 = Benzo(e)pyrene-d12 50 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

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2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 3507616

Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
FM0263B-CS-SPDL1	0.0 D						0
FM0263C-CS-SP	37.3 *						1
FM0263C-CS-SPDL1	0.0 D						0

Control Limits

S1 = Benzo(e)pyrene-d12 50 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

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ATTACHMENT D

CASE NARRATIVES

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT
No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES
A. Sample Preparation:
All holding times were met.

B. Sample Analysis:
All holding times were met.

III. METHODS
Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8270D-SIM

IV. PREPARATION
Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS
A. Calibration:
All acceptance criteria were met with the exception of:

Note that the Continuing Calibration Verification sample CCV1136644 analyzed on 11/26/12 exceeded the 40% Maximum Difference criteria for Dibenzo(a,h) anthracene at -50.8%. However this CCV was only associated with the two samples which required a dilution for compounds other than Dibenzo(a,h) anthracene. No further action was taken.

B. Blanks:
All acceptance criteria were met.

C. Surrogates:
All acceptance criteria were met with the exception of:

Sample CV0192B-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 46.7 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample CV0699C-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 27.4 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0210A-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 16.9 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0210B-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 41.9 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Sample FM0263C-CS-SP was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 37.3 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample CV0043A-CSMSD was recovered below criteria for the following surrogate(s): Benzo(e)pyrene-d12 at 0 % with criteria of (50-140).

Samples coded accordingly.

The following samples had surrogates that were diluted out: CV0699B-CSDL1, FM0210C-CSDL1, FM0263A-CS-SPDL1, FM0263B-CS-SPDL1, FM0263C-CS-SPDL1.

D. Spikes:

1. **Laboratory Control Spikes (LCS)**
   All acceptance criteria were met.

2. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)**
   A client requested MS/SD set was analyzed.
   All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

   MS - CV0043A-CSMS was analyzed with the soil samples extracted on 04/26/00. The following analyte(s) were recovered below criteria:2-Methylnaphthalene at 51.2 % with criteria of (54-145), Naphthalene at 35.5 % with criteria of (59-111) and the following analyte(s) were recovered above criteria: Acenaphthylene at 615 % with criteria of (54-115), Anthracene at 988 % with criteria of (40-138), Benzo(a)anthracene at 5113 % with criteria of (53-119), Benzo(a)pyrene at 2414 % with criteria of (20-120), Benzo(b)fluoranthene at 2047 % with criteria of (50-171), Benzo(g,h,i)perylene at 1241 % with criteria of (50-150), Benzo(k)fluoranthene at 2474 % with criteria of (32-158), Chrysene at 3219 % with criteria of (34-140), Dibenzo(a,h)anthracene at 755 % with criteria of (41-114), Fluoranthene at 7383 % with criteria of (55-132), Fluorene at 541 % with criteria of (59-118), Indeno(1,2,3-cd)pyrene at 1415 % with criteria of (19-122), Phenanthrene at 5383 % with criteria of (54-112), Pyrene at 5094 % with criteria of (55-123).

   SD - CV0043A-CSMSD was analyzed with the soil samples extracted on 04/26/00. The following analyte(s) were recovered below criteria:1-Methylnaphthalene at 48.4 % with criteria of (71-132), 2-Methylnaphthalene at 13.3 % with criteria of (54-145), Benzo(b)fluoranthene at 0 % with criteria of (50-171), Fluoranthene at 23.4 % with criteria of (55-132), Naphthalene at 0 % with criteria of (59-111), Phenanthrene at 15.6 % with criteria of (54-112), Pyrene at 27.3 % with criteria of (55-123) and the following analyte(s) were recovered above criteria: Benzo(a)anthracene at 164 % with criteria of (53-119), Benzo(a)pyrene at 141 % with criteria of (20-120), Benzo(k)fluoranthene at 369 % with criteria of (32-158), Dibenzo(a,h)anthracene at 180 % with criteria of (41-114), Indeno(1,2,3-cd)pyrene at 169 % with criteria of (19-122). The following analyte(s) exceeded RPD criteria: Acenaphthylene at 124.1 % with criteria of (30), Anthracene at 148.1 % with criteria of (30), Benzo(a)anthracene at 157.1 % with criteria of (30), Benzo(a)pyrene at 129.9 % with criteria of (30), Benzo(b)fluoranthene at 131.2 % with criteria of (30), Benzo(g,h,i)perylene at 105.4 % with criteria of (30), Benzo(k)fluoranthene at 121.8 % with criteria of (30), Chrysene at 144.3 % with criteria of (30), Dibenzo(a,h)anthracene at 100.5 % with criteria of (30), Fluoranthene at 168.5 % with criteria of (30), Fluorene at 134.1 % with criteria of (30),

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Indeno(1,2,3-cd)pyrene at 115 % with criteria of (30), Phenanthrene at 173.3 % with criteria of (30), Pyrene at 161.8 % with criteria of (30).

Samples coded accordingly.

E. Internal Standards:
All acceptance criteria were met.

F. Samples:
Sample analysis proceeded normally.

Sample CV0699B-CS required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Pyrene. Both full and diluted runs are reported.

Sample FM0210C-CS required a 20X dilution due to high concentration of the following analyte: Fluoranthene. Both full and diluted runs are reported.

Sample FM0263A-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Sample FM0263B-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Sample FM0263C-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Note that sample FM0126C-GS-SP also had analytes present in the 8270SIM analysis that were above the high calibration of the 8270SIM method. However, the sample was also analyzed using the SW8270 method. The SW8270 method has a higher calibration range than the 8270SIM method, and the analytes that were high in the 8270SIM method were within the calibration range for the SW8270 method. Therefore no dilution was performed on the sample.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:
Name: Brian C. Spanfr Title: Lab Director

SIGNED: DATE: 12/17/2012

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

MANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: CV0041A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0041A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0041B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0041B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0043A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0043B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0043C-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043C-CS Analyte: Benzo(e)pyrene-d12
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: CV0043C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0192A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0192A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0192B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0192B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0362A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0362A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0699A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0699B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699B-CSDL1 Analyte: Benzo(b)fluoranthene

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Reason: Split Peak
Sample: CV0699B-CSDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699C-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0699C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126A-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0126A-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126B-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(e)pyrene-d12
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: FM0126C-GS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0210A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0210B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210C-CSDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0210C-CSDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SPDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SPDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263B-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263B-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263B-CS-SPDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Sample: FM0263B-CS-SPDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SPDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SPDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Acenaphthylene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Anthracene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Benzo(a)anthracene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Benzo(e)pyrene-d12(SURR)
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Benzo(g,h,i)perylene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: SSC1135488 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Chrysene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Dibenzo(a,h)anthracene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Fluoranthene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Indeno(1,2,3-cd)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Naphthalene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: SSC1135488 Analyte: Phenanthrene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: SSC1135488 Analyte: Pyrene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: STD1135465 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135466 Analyte: Benzo(k)fluoranthene

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Reason: Split Peak
Calibration Sample: STD1135469 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135472 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135474 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135478 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

Signature:
Name: Mark Jacobs Title: Chemist

CHEMIST: **DATE: 11/30/2012**

Signature:
Name: Brian C. Spaniff Title: Lab Director

SECTION LEADER: **DATE: 11/30/2012**

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Spectrum Analytical Inc. does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 500 ug/Kg for the following analyte(s): 4,6-Dinitro-2-methylphenol.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

CASE NARRATIVE
Semi-Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:

Name: Brian C. Spanh Title: Lab Director

SIGNED: **DATE:** 12/17/2012

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

MANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: 154211LCS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: 154211LCS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: 154211LCS Analyte: N-Nitroso-di-n-propylamine
Reason: Baseline integration, needs re-enforced due to interference on target peak
Sample: CV0043C-CS Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: CV0043C-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: FM0126C-GS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: CCV1137614 Analyte: 2,4-Dimethylphenol
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: CCV1137614 Analyte: N-Nitroso-di-n-propylamine
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: CCV1137619 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Calibration Sample: CCV1137619 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: SSC1135505 Analyte: Anthracene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135505 Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135505 Analyte: Butylbenzylphthalate
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: SSC1135505 Analyte: Carbazole
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: SSC1135505 Analyte: Chrysene-d12
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135505 Analyte: N-Nitroso-di-n-propylamine
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: STD1135497 Analyte: Benzo(b)fluoranthene

CASE NARRATIVE

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Reason: Split Peak
Calibration Sample: STD1135497 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135497 Analyte: Hexachlorocyclopentadiene
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: STD1135498 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135498 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135498 Analyte: Naphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: STD1135500 Analyte: N-Nitroso-di-n-propylamine
Reason: Split Peak
Calibration Sample: STD1135502 Analyte: N-Nitroso-di-n-propylamine
Reason: Split Peak

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

Signature:
Name: Mark Jacobs Title: Chemist
CHEMIST: **DATE: 11/29/2012**

Signature:
Name: Brian C. Spaniff Title: Lab Director
SECTION LEADER: **DATE: 11/30/2012**

Organic Data Qualifiers

U Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.

J Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.

B Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.

E Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.

D Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.

C The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.

P This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.

N This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

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

X Data flagged as rejected by analyst utilizing analytical judgement.

Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

ATTACHMENT E

QUALIFIED SAMPLE RESULTS

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0041A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761601 Lab File ID: 616-01.D

Sample wt/vol: 25.14 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 1944

PercentSolids: 79.1 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	48.1		1.4	3.3
91-57-6	2-Methylnaphthalene	53.2		1.3	3.3
90-12-0	1-Methylnaphthalene	44		1.3	3.3
208-96-8	Acenaphthylene	10.4		1.3	3.3
83-32-9	Acenaphthene	7.5		1.3	3.3
86-73-7	Fluorene	7.2		1.3	3.3
85-01-8	Phenanthrene	126		1.3	3.3
120-12-7	Anthracene	21.4		1.3	3.3
206-44-0	Fluoranthene	234		1.3	3.3
129-00-0	Pyrene	186		1.3	3.3
56-55-3	Benzo(a)anthracene	155		1.4	3.3
218-01-9	Chrysene	173		1.3	3.3
205-99-2	Benzo(b)fluoranthene	245		1.9	3.3
207-08-9	Benzo(k)fluoranthene	71.5	J	2.1	3.3
50-32-8	Benzo(a)pyrene	132		1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	71		3	3.3
53-70-3	Dibenzo(a,h)anthracene	25.1		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	94.6		3.1	3.3

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0041B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761602 Lab File ID: 616-02.D

Sample wt/vol: 25.31 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2008

PercentSolids: 83.7 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	45.1		1.3	3.1
91-57-6	2-Methylnaphthalene	49.6		1.2	3.1
90-12-0	1-Methylnaphthalene	37.9		1.2	3.1
208-96-8	Acenaphthylene	9.5		1.2	3.1
83-32-9	Acenaphthene	5.5		1.2	3.1
86-73-7	Fluorene	6.3		1.2	3.1
85-01-8	Phenanthrene	77.4		1.2	3.1
120-12-7	Anthracene	13.9		1.2	3.1
206-44-0	Fluoranthene	132		1.2	3.1
129-00-0	Pyrene	107		1.2	3.1
56-55-3	Benzo(a)anthracene	100		1.3	3.1
218-01-9	Chrysene	113		1.2	3.1
205-99-2	Benzo(b)fluoranthene	167		1.8	3.1
207-08-9	Benzo(k)fluoranthene	49.4	J	2	3.1
50-32-8	Benzo(a)pyrene	84		1.7	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	50.8		2.8	3.1
53-70-3	Dibenzo(a,h)anthracene	16.3		2.4	3.1
191-24-2	Benzo(g,h,i)perylene	67.3		2.9	3.1

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0043A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761603 Lab File ID: 616-03.D

Sample wt/vol: 25.06 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2031

PercentSolids: 78 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
91-20-3	Naphthalene	89.9	J	1.4	3.4
91-57-6	2-Methylnaphthalene	88.9	J	1.4	3.4
90-12-0	1-Methylnaphthalene	53.7		1.4	3.4
208-96-8	Acenaphthylene	15.5	J	1.4	3.4
83-32-9	Acenaphthene	5.9		1.4	3.4
86-73-7	Fluorene	6.4	J	1.4	3.4
85-01-8	Phenanthrene	102	J	1.4	3.4
120-12-7	Anthracene	20.1	J	1.4	3.4
206-44-0	Fluoranthene	170		1.4	3.4
129-00-0	Pyrene	146		1.4	3.4
56-55-3	Benzo(a)anthracene	131		1.4	3.4
218-01-9	Chrysene	140		1.3	3.4
205-99-2	Benzo(b)fluoranthene	232		1.9	3.4
207-08-9	Benzo(k)fluoranthene	78.6	J	2.1	3.4
50-32-8	Benzo(a)pyrene	121		1.8	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	74.8	J	3.1	3.4
53-70-3	Dibenzo(a,h)anthracene	26.8	J	2.7	3.4
191-24-2	Benzo(g,h,i)perylene	95.3	J	3.2	3.4

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0043B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761604 Lab File ID: 616-04.D

Sample wt/vol: 25.08 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2055

PercentSolids: 75.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	30		1.5	3.5
91-57-6	2-Methylnaphthalene	26.9		1.4	3.5
90-12-0	1-Methylnaphthalene	19.7		1.4	3.5
208-96-8	Acenaphthylene	4.2		1.4	3.5
83-32-9	Acenaphthene	3.5	U	1.4	3.5
86-73-7	Fluorene	3.9		1.4	3.5
85-01-8	Phenanthrene	51		1.4	3.5
120-12-7	Anthracene	7.6		1.4	3.5
206-44-0	Fluoranthene	90.5		1.4	3.5
129-00-0	Pyrene	66.9		1.4	3.5
56-55-3	Benzo(a)anthracene	53.9		1.5	3.5
218-01-9	Chrysene	61.4		1.4	3.5
205-99-2	Benzo(b)fluoranthene	105		2	3.5
207-08-9	Benzo(k)fluoranthene	30.3	J	2.2	3.5
50-32-8	Benzo(a)pyrene	53.4		1.9	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	30		3.2	3.5
53-70-3	Dibenzo(a,h)anthracene	7.4		2.7	3.5
191-24-2	Benzo(g,h,i)perylene	42.3		3.3	3.5

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.33 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
91-20-3	Naphthalene	23.3		1.4	3.4
91-57-6	2-Methylnaphthalene	24.6	UJ	1.4	3.4
90-12-0	1-Methylnaphthalene	15.9		1.4	3.4
208-96-8	Acenaphthylene	4.5		1.4	3.4
83-32-9	Acenaphthene	3.4	U	1.4	3.4
86-73-7	Fluorene	3.4	U	1.4	3.4
85-01-8	Phenanthrene	45.5		1.4	3.4
120-12-7	Anthracene	8.4		1.4	3.4
206-44-0	Fluoranthene	77.1		1.4	3.4
129-00-0	Pyrene	65.1		1.4	3.4
56-55-3	Benzo(a)anthracene	61.8		1.4	3.4
218-01-9	Chrysene	63.4		1.3	3.4
205-99-2	Benzo(b)fluoranthene	68.9		2	3.4
207-08-9	Benzo(k)fluoranthene	58.9	~~J~~ ⊕	2.2	3.4
50-32-8	Benzo(a)pyrene	62.2		1.8	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	44.5		3.1	3.4
53-70-3	Dibenzo(a,h)anthracene	22.1		2.7	3.4
191-24-2	Benzo(g,h,i)perylene	51.5		3.2	3.4

⊕ Flagging error, MMeyerotto 1/9/2013

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0192A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761606 Lab File ID: 616-06.D

Sample wt/vol: 25.03 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2118

PercentSolids: 82 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	194	J	1.4	3.2
91-57-6	2-Methylnaphthalene	349		1.3	3.2
90-12-0	1-Methylnaphthalene	292		1.3	3.2
208-96-8	Acenaphthylene	13.8		1.3	3.2
83-32-9	Acenaphthene	14.4		1.3	3.2
86-73-7	Fluorene	15.4		1.3	3.2
85-01-8	Phenanthrene	215		1.3	3.2
120-12-7	Anthracene	14.9		1.3	3.2
206-44-0	Fluoranthene	108		1.3	3.2
129-00-0	Pyrene	99.8		1.3	3.2
56-55-3	Benzo(a)anthracene	92.4		1.4	3.2
218-01-9	Chrysene	111		1.3	3.2
205-99-2	Benzo(b)fluoranthene	122		1.8	3.2
207-08-9	Benzo(k)fluoranthene	40	J	2	3.2
50-32-8	Benzo(a)pyrene	66		1.8	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	30.2		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	11.2		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	45		3	3.2

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0192B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761607 Lab File ID: 616-07.D

Sample wt/vol: 25.27 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2142

PercentSolids: 82.4 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	80.6		1.3	3.2
91-57-6	2-Methylnaphthalene	107		1.3	3.2
90-12-0	1-Methylnaphthalene	84.8		1.3	3.2
208-96-8	Acenaphthylene	41.7		1.3	3.2
83-32-9	Acenaphthene	25.4		1.3	3.2
86-73-7	Fluorene	22.8		1.3	3.2
85-01-8	Phenanthrene	238		1.3	3.2
120-12-7	Anthracene	58.7		1.3	3.2
206-44-0	Fluoranthene	296		1.3	3.2
129-00-0	Pyrene	231		1.3	3.2
56-55-3	Benzo(a)anthracene	216		1.3	3.2
218-01-9	Chrysene	213		1.2	3.2
205-99-2	Benzo(b)fluoranthene	364		1.8	3.2
207-08-9	Benzo(k)fluoranthene	120	J	2	3.2
50-32-8	Benzo(a)pyrene	169		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	95.2		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	39.1		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	125		3	3.2

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263A-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761608 Lab File ID: 616-08.D

Sample wt/vol: 25.21 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2205

PercentSolids: 79.2 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	62.1		1.4	3.3
91-57-6	2-Methylnaphthalene	44.7		1.3	3.3
90-12-0	1-Methylnaphthalene	37.1		1.3	3.3
208-96-8	Acenaphthylene	21.2		1.3	3.3
83-32-9	Acenaphthene	87.5		1.3	3.3
86-73-7	Fluorene	79.6		1.3	3.3
85-01-8	Phenanthrene	~~676~~	~~E~~ R	~~1.3~~	~~3.3~~
120-12-7	Anthracene	204		1.3	3.3
206-44-0	Fluoranthene	~~969~~	~~E~~ R	~~1.3~~	~~3.3~~
129-00-0	Pyrene	785	E	1.3	3.3
56-55-3	Benzo(a)anthracene	620	E	1.4	3.3
218-01-9	Chrysene	554	E	1.3	3.3
205-99-2	Benzo(b)fluoranthene	~~990~~	~~E~~	~~1.9~~	~~3.3~~
207-08-9	Benzo(k)fluoranthene	281	J	2.1	3.3
50-32-8	Benzo(a)pyrene	~~534~~	~~E~~ R	~~1.8~~	~~3.3~~
193-39-5	Indeno(1,2,3-cd)pyrene	221		3	3.3
53-70-3	Dibenzo(a,h)anthracene	93.2		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	256		3.1	3.3

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263A-CS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761608DL1 Lab File ID: 61608D20.D

Sample wt/vol: 25.21 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2242

PercentSolids: 79.2 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
91-20-3	Naphthalene	~~66.9~~	R	~~28~~	~~66.7~~
91-57-6	2-Methylnaphthalene	66.7	U	26.6	66.7
90-12-0	1-Methylnaphthalene	66.7	U	26.6	66.7
208-96-8	Acenaphthylene	66.7	U	26.6	66.7
83-32-9	Acenaphthene	102		26.6	66.7
86-73-7	Fluorene	~~84.5~~		~~26.6~~	~~66.7~~
85-01-8	Phenanthrene	818		26.6	66.7
120-12-7	Anthracene	~~220~~	R	~~26.6~~	~~66.7~~
206-44-0	Fluoranthene	1300		26.6	66.7
129-00-0	Pyrene	928		26.6	66.7
56-55-3	Benzo(a)anthracene	677		28	66.7
218-01-9	Chrysene	672		26	66.7
205-99-2	Benzo(b)fluoranthene	834		38.1	66.7
207-08-9	Benzo(k)fluoranthene	~~314~~	R	~~42.1~~	~~66.7~~
50-32-8	Benzo(a)pyrene	499		36.1	66.7
193-39-5	Indeno(1,2,3-cd)pyrene	~~208~~	R	~~60.1~~	~~66.7~~
53-70-3	Dibenzo(a,h)anthracene	66.7	U	52.1	66.7
191-24-2	Benzo(g,h,i)perylene	~~271~~		~~62.1~~	~~66.7~~

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263B-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761609 Lab File ID: 616-09.D

Sample wt/vol: 25.29 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2229

PercentSolids: 82.5 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q		MDL	RL
91-20-3	Naphthalene	53.4			1.3	3.2
91-57-6	2-Methylnaphthalene	57.1			1.3	3.2
90-12-0	1-Methylnaphthalene	48.7			1.3	3.2
208-96-8	Acenaphthylene	14.2			1.3	3.2
83-32-9	Acenaphthene	73.8			1.3	3.2
86-73-7	Fluorene	61.2			1.3	3.2
85-01-8	Phenanthrene	~~746~~	E	R	~~1.3~~	~~3.2~~
120-12-7	Anthracene	123			1.3	3.2
206-44-0	Fluoranthene	~~892~~	E	R	~~1.3~~	~~3.2~~
129-00-0	Pyrene	792	E		1.3	3.2
56-55-3	Benzo(a)anthracene	536	E		1.3	3.2
218-01-9	Chrysene	550	E		1.2	3.2
205-99-2	Benzo(b)fluoranthene	~~652~~	E		~~1.8~~	3.2
207-08-9	Benzo(k)fluoranthene	267	J		2	3.2
50-32-8	Benzo(a)pyrene	408			1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	175			2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	68.3			2.5	3.2
191-24-2	Benzo(g,h,i)perylene	208			3	3.2

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263B-CS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761609DL1 Lab File ID: 61609D20.D

Sample wt/vol: 25.29 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2305

PercentSolids: 82.5 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	~~63.8~~	~~U~~ R	~~26.8~~	~~63.8~~
91-57-6	2-Methylnaphthalene	63.8	U	25.5	63.8
90-12-0	1-Methylnaphthalene	63.8	U	25.5	63.8
208-96-8	Acenaphthylene	63.8	U	25.5	63.8
83-32-9	Acenaphthene	88.9		25.5	63.8
86-73-7	Fluorene	~~74~~		~~25.5~~	~~63.8~~
85-01-8	Phenanthrene	1060		25.5	63.8
120-12-7	Anthracene	~~179~~	R	~~25.5~~	~~63.8~~
206-44-0	Fluoranthene	1240		25.5	63.8
129-00-0	Pyrene	1060		25.5	63.8
56-55-3	Benzo(a)anthracene	487		26.8	63.8
218-01-9	Chrysene	551		24.9	63.8
205-99-2	Benzo(b)fluoranthene	624		36.4	63.8
207-08-9	Benzo(k)fluoranthene	~~246~~	R	~~40.3~~	~~63.8~~
50-32-8	Benzo(a)pyrene	399		34.5	63.8
193-39-5	Indeno(1,2,3-cd)pyrene	172		57.5	63.8
53-70-3	Dibenzo(a,h)anthracene	63.8	U	49.6	63.8
191-24-2	Benzo(g,h,i)perylene	~~226~~		~~59.4~~	~~63.8~~

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263C-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761610 Lab File ID: 616-10.D

Sample wt/vol: 25.79 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2253

PercentSolids: 77.9 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	148	J	1.4	3.3
91-57-6	2-Methylnaphthalene	78.2		1.3	3.3
90-12-0	1-Methylnaphthalene	57		1.3	3.3
208-96-8	Acenaphthylene	23.2		1.3	3.3
83-32-9	Acenaphthene	176		1.3	3.3
86-73-7	Fluorene	156		1.3	3.3
85-01-8	Phenanthrene	~~1210~~	~~E~~ R	~~1.3~~	~~3.3~~
120-12-7	Anthracene	281	J	1.3	3.3
206-44-0	Fluoranthene	~~1420~~	~~E~~ R	~~1.3~~	~~3.3~~
129-00-0	Pyrene	1060	E	1.3	3.3
56-55-3	Benzo(a)anthracene	814	E	1.4	3.3
218-01-9	Chrysene	780	E	1.3	3.3
205-99-2	Benzo(b)fluoranthene	~~1490~~	~~E~~	~~1.9~~	~~3.3~~
207-08-9	Benzo(k)fluoranthene	455	J	2.1	3.3
50-32-8	Benzo(a)pyrene	~~615~~	~~E~~ R	~~1.8~~	~~3.3~~
193-39-5	Indeno(1,2,3-cd)pyrene	276	J	3	3.3
53-70-3	Dibenzo(a,h)anthracene	115		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	362		3.1	3.3

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263C-CS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761610DL1 Lab File ID: 61610D20.D

Sample wt/vol: 25.79 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2329

PercentSolids: 77.9 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	~~156~~	R	~~27.9~~	~~66.3~~
91-57-6	2-Methylnaphthalene	76.1		26.5	66.3
90-12-0	1-Methylnaphthalene	66.3	U	26.5	66.3
208-96-8	Acenaphthylene	66.3	U	26.5	66.3
83-32-9	Acenaphthene	~~224~~		~~26.5~~	66.3
86-73-7	Fluorene	~~166~~		~~26.5~~	~~66.3~~
85-01-8	Phenanthrene	1990		26.5	66.3
120-12-7	Anthracene	~~386~~	R	~~26.5~~	~~66.3~~
206-44-0	Fluoranthene	2120		26.5	66.3
129-00-0	Pyrene	1500		26.5	66.3
56-55-3	Benzo(a)anthracene	951		27.9	66.3
218-01-9	Chrysene	943		25.9	66.3
205-99-2	Benzo(b)fluoranthene	1280		37.8	66.3
207-08-9	Benzo(k)fluoranthene	~~465~~	R	~~41.8~~	~~66.3~~
50-32-8	Benzo(a)pyrene	722		35.8	66.3
193-39-5	Indeno(1,2,3-cd)pyrene	~~286~~	R	~~59.7~~	~~66.3~~
53-70-3	Dibenzo(a,h)anthracene	66.3	U	51.8	66.3
191-24-2	Benzo(g,h,i)perylene	~~357~~		~~61.7~~	~~66.3~~

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0126A-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761611 Lab File ID: 616-11.D

Sample wt/vol: 25.77 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2316

PercentSolids: 81.7 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	31.7		1.3	3.2
91-57-6	2-Methylnaphthalene	22.2		1.3	3.2
90-12-0	1-Methylnaphthalene	15.3		1.3	3.2
208-96-8	Acenaphthylene	4.1		1.3	3.2
83-32-9	Acenaphthene	7		1.3	3.2
86-73-7	Fluorene	6.4		1.3	3.2
85-01-8	Phenanthrene	76		1.3	3.2
120-12-7	Anthracene	13.7		1.3	3.2
206-44-0	Fluoranthene	109		1.3	3.2
129-00-0	Pyrene	84.8		1.3	3.2
56-55-3	Benzo(a)anthracene	62.9		1.3	3.2
218-01-9	Chrysene	65.5		1.2	3.2
205-99-2	Benzo(b)fluoranthene	93.7		1.8	3.2
207-08-9	Benzo(k)fluoranthene	30.6	J	2	3.2
50-32-8	Benzo(a)pyrene	52.4		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	24.6		2.8	3.2
53-70-3	Dibenzo(a,h)anthracene	4		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	28		2.9	3.2

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126B-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761612 Lab File ID: 616-12.D

Sample wt/vol: 25.61 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2340

PercentSolids: 79.4 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	47.4		1.4	3.3
91-57-6	2-Methylnaphthalene	52.8		1.3	3.3
90-12-0	1-Methylnaphthalene	34.1		1.3	3.3
208-96-8	Acenaphthylene	3.7		1.3	3.3
83-32-9	Acenaphthene	3.3		1.3	3.3
86-73-7	Fluorene	3.7		1.3	3.3
85-01-8	Phenanthrene	69.5		1.3	3.3
120-12-7	Anthracene	8.2		1.3	3.3
206-44-0	Fluoranthene	76.6		1.3	3.3
129-00-0	Pyrene	59.1		1.3	3.3
56-55-3	Benzo(a)anthracene	50.1		1.4	3.3
218-01-9	Chrysene	61.2		1.3	3.3
205-99-2	Benzo(b)fluoranthene	83.6		1.9	3.3
207-08-9	Benzo(k)fluoranthene	28	J	2.1	3.3
50-32-8	Benzo(a)pyrene	41.6		1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	20.2		3	3.3
53-70-3	Dibenzo(a,h)anthracene	3.3	U	2.6	3.3
191-24-2	Benzo(g,h,i)perylene	23.8		3	3.3

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.6 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	158		1.5	3.6
91-57-6	2-Methylnaphthalene	89.5	UJ	1.4	3.6
90-12-0	1-Methylnaphthalene	52.6		1.4	3.6
208-96-8	Acenaphthylene	11.3		1.4	3.6
83-32-9	Acenaphthene	120		1.4	3.6
86-73-7	Fluorene	110		1.4	3.6
85-01-8	Phenanthrene	735	~~E~~ J	1.4	3.6
120-12-7	Anthracene	214		1.4	3.6
206-44-0	Fluoranthene	841	~~E~~ J	1.4	3.6
129-00-0	Pyrene	636	~~E~~ |	1.4	3.6
56-55-3	Benzo(a)anthracene	584	~~E~~ |	1.5	3.6
218-01-9	Chrysene	579	~~E~~ V	1.4	3.6
205-99-2	Benzo(b)fluoranthene	487		2.1	3.6
207-08-9	Benzo(k)fluoranthene	543		2.3	3.6
50-32-8	Benzo(a)pyrene	510		2	3.6
193-39-5	Indeno(1,2,3-cd)pyrene	288		3.3	3.6
53-70-3	Dibenzo(a,h)anthracene	175		2.8	3.6
191-24-2	Benzo(g,h,i)perylene	304		3.4	3.6

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0699A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761614 Lab File ID: 616-14.D

Sample wt/vol: 25.02 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0004

PercentSolids: 83.2 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	44.7		1.3	3.2
91-57-6	2-Methylnaphthalene	47.2		1.3	3.2
90-12-0	1-Methylnaphthalene	33.4		1.3	3.2
208-96-8	Acenaphthylene	8.7		1.3	3.2
83-32-9	Acenaphthene	7.3		1.3	3.2
86-73-7	Fluorene	7.9		1.3	3.2
85-01-8	Phenanthrene	106		1.3	3.2
120-12-7	Anthracene	19.4		1.3	3.2
206-44-0	Fluoranthene	143		1.3	3.2
129-00-0	Pyrene	119		1.3	3.2
56-55-3	Benzo(a)anthracene	132		1.3	3.2
218-01-9	Chrysene	129		1.2	3.2
205-99-2	Benzo(b)fluoranthene	204		1.8	3.2
207-08-9	Benzo(k)fluoranthene	52.1	J	2	3.2
50-32-8	Benzo(a)pyrene	117		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	51		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	16.4		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	60.4		3	3.2

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0699B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761615 Lab File ID: 616-15.D

Sample wt/vol: 25.01 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0027

PercentSolids: 80.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	36.3		1.4	3.3
91-57-6	2-Methylnaphthalene	32.1		1.3	3.3
90-12-0	1-Methylnaphthalene	24.9		1.3	3.3
208-96-8	Acenaphthylene	8.2		1.3	3.3
83-32-9	Acenaphthene	24.7		1.3	3.3
86-73-7	Fluorene	17.2		1.3	3.3
85-01-8	Phenanthrene	328		1.3	3.3
120-12-7	Anthracene	98.2		1.3	3.3
206-44-0	Fluoranthene	~~884~~	~~E~~ R	~~1.3~~	~~3.3~~
129-00-0	Pyrene	855	E	1.3	3.3
56-55-3	Benzo(a)anthracene	633	E	1.4	3.3
218-01-9	Chrysene	534	E	1.3	3.3
205-99-2	Benzo(b)fluoranthene	~~874~~	~~E~~	~~4.9~~	~~3.3~~
207-08-9	Benzo(k)fluoranthene	278	J	2.1	3.3
50-32-8	Benzo(a)pyrene	466		1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	171		3	3.3
53-70-3	Dibenzo(a,h)anthracene	73.6		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	186		3.1	3.3

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0699B-CSDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761615DL1 Lab File ID: 61615D20.D

Sample wt/vol: 25.01 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2352

PercentSolids: 80.8 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	~~65.9~~	~~U~~ R	~~27.7~~	~~65.9~~
91-57-6	2-Methylnaphthalene	65.9	U	26.3	65.9
90-12-0	1-Methylnaphthalene	65.9	U	26.3	65.9
208-96-8	Acenaphthylene	65.9	U	26.3	65.9
83-32-9	Acenaphthene	65.9	U	26.3	65.9
86-73-7	Fluorene	65.9	U	26.3	65.9
85-01-8	Phenanthrene	440		26.3	65.9
120-12-7	Anthracene	~~131~~		~~26.3~~	~~65.9~~
206-44-0	Fluoranthene	1270		26.3	65.9
129-00-0	Pyrene	1120		26.3	65.9
56-55-3	Benzo(a)anthracene	667		27.7	65.9
218-01-9	Chrysene	623		25.7	65.9
205-99-2	Benzo(b)fluoranthene	765		37.6	65.9
207-08-9	Benzo(k)fluoranthene	~~341~~	R	~~41.6~~	~~65.9~~
50-32-8	Benzo(a)pyrene	485		35.6	65.9
193-39-5	Indeno(1,2,3-cd)pyrene	171		59.4	65.9
53-70-3	Dibenzo(a,h)anthracene	65.9	U	51.5	65.9
191-24-2	Benzo(g,h,i)perylene	~~210~~		~~61.4~~	~~65.9~~

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0699C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761616 Lab File ID: 616-16.D

Sample wt/vol: 25.3 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0051

PercentSolids: 82 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	48.6	J	1.3	3.2
91-57-6	2-Methylnaphthalene	45.6		1.3	3.2
90-12-0	1-Methylnaphthalene	33.4		1.3	3.2
208-96-8	Acenaphthylene	6.2		1.3	3.2
83-32-9	Acenaphthene	12		1.3	3.2
86-73-7	Fluorene	12.6		1.3	3.2
85-01-8	Phenanthrene	113		1.3	3.2
120-12-7	Anthracene	25.2		1.3	3.2
206-44-0	Fluoranthene	148		1.3	3.2
129-00-0	Pyrene	112		1.3	3.2
56-55-3	Benzo(a)anthracene	109		1.3	3.2
218-01-9	Chrysene	106		1.2	3.2
205-99-2	Benzo(b)fluoranthene	168		1.8	3.2
207-08-9	Benzo(k)fluoranthene	58.8	J	2	3.2
50-32-8	Benzo(a)pyrene	92.7		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	37.8		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	12		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	50.6		3	3.2

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761617 Lab File ID: 616-17.D

Sample wt/vol: 25.2 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0114

PercentSolids: 82 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	21.6	J	1.4	3.2
91-57-6	2-Methylnaphthalene	16.2		1.3	3.2
90-12-0	1-Methylnaphthalene	11.8		1.3	3.2
208-96-8	Acenaphthylene	3.2	U J	1.3	3.2
83-32-9	Acenaphthene	3.2	U	1.3	3.2
86-73-7	Fluorene	3.2	U	1.3	3.2
85-01-8	Phenanthrene	24.3	J	1.3	3.2
120-12-7	Anthracene	3.5		1.3	3.2
206-44-0	Fluoranthene	33		1.3	3.2
129-00-0	Pyrene	26.6		1.3	3.2
56-55-3	Benzo(a)anthracene	24		1.4	3.2
218-01-9	Chrysene	26.7		1.2	3.2
205-99-2	Benzo(b)fluoranthene	33		1.8	3.2
207-08-9	Benzo(k)fluoranthene	11.9	J	2	3.2
50-32-8	Benzo(a)pyrene	19.3		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	8.4		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	3.2	U J	2.5	3.2
191-24-2	Benzo(g,h,i)perylene	10.6	J	3	3.2

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761618 Lab File ID: 616-18.D

Sample wt/vol: 25.08 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0138

PercentSolids: 82.7 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	42.6	J	1.4	3.2
91-57-6	2-Methylnaphthalene	41.8		1.3	3.2
90-12-0	1-Methylnaphthalene	33.1		1.3	3.2
208-96-8	Acenaphthylene	4.9		1.3	3.2
83-32-9	Acenaphthene	5.6		1.3	3.2
86-73-7	Fluorene	6.3		1.3	3.2
85-01-8	Phenanthrene	85.8		1.3	3.2
120-12-7	Anthracene	10.3		1.3	3.2
206-44-0	Fluoranthene	85.9		1.3	3.2
129-00-0	Pyrene	76		1.3	3.2
56-55-3	Benzo(a)anthracene	56.2		1.4	3.2
218-01-9	Chrysene	67.4		1.2	3.2
205-99-2	Benzo(b)fluoranthene	74.8		1.8	3.2
207-08-9	Benzo(k)fluoranthene	25	J	2	3.2
50-32-8	Benzo(a)pyrene	39.6		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	16		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	3.2	UJ	2.5	3.2
191-24-2	Benzo(g,h,i)perylene	22.1	J	3	3.2

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761619 Lab File ID: 616-19.D

Sample wt/vol: 25.06 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0201

PercentSolids: 84.5 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
91-20-3	Naphthalene	48.8		1.3	3.1
91-57-6	2-Methylnaphthalene	49.8		1.2	3.1
90-12-0	1-Methylnaphthalene	43.7		1.2	3.1
208-96-8	Acenaphthylene	12.2		1.2	3.1
83-32-9	Acenaphthene	31.8		1.2	3.1
86-73-7	Fluorene	23.9		1.2	3.1
85-01-8	Phenanthrene	382		1.2	3.1
120-12-7	Anthracene	63.4		1.2	3.1
206-44-0	Fluoranthene	~~577~~	~~E~~ R	~~1.2~~	~~3.1~~
129-00-0	Pyrene	440		1.2	3.1
56-55-3	Benzo(a)anthracene	290		1.3	3.1
218-01-9	Chrysene	280		1.2	3.1
205-99-2	Benzo(b)fluoranthene	403		1.8	3.1
207-08-9	Benzo(k)fluoranthene	142	J	2	3.1
50-32-8	Benzo(a)pyrene	196		1.7	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	77.2		2.8	3.1
53-70-3	Dibenzo(a,h)anthracene	27.9		2.4	3.1
191-24-2	Benzo(g,h,i)perylene	96.8		2.9	3.1

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210C-CSDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761619DL1 Lab File ID: 61619D20.D

Sample wt/vol: 25.06 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/27/12 Time: 0016

PercentSolids: 84.5 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*		*MDL*	*RL*
91-20-3	Naphthalene	~~62.9~~	~~U~~	R	~~26.4~~	~~62.9~~
91-57-6	2-Methylnaphthalene	62.9	U		25.1	62.9
90-12-0	1-Methylnaphthalene	62.9	U		25.1	62.9
208-96-8	Acenaphthylene	62.9	U		25.1	62.9
83-32-9	Acenaphthene	62.9	U		25.1	62.9
86-73-7	Fluorene	62.9	U		25.1	62.9
85-01-8	Phenanthrene	455			25.1	62.9
120-12-7	Anthracene	~~78.4~~			~~25.1~~	~~62.9~~
206-44-0	Fluoranthene	658			25.1	62.9
129-00-0	Pyrene	~~493~~		R	~~25.1~~	~~62.9~~
56-55-3	Benzo(a)anthracene	250			26.4	62.9
218-01-9	Chrysene	275			24.6	62.9
205-99-2	Benzo(b)fluoranthene	261			35.9	62.9
207-08-9	Benzo(k)fluoranthene	131			39.7	62.9
50-32-8	Benzo(a)pyrene	183			34	62.9
193-39-5	Indeno(1,2,3-cd)pyrene	83.1			56.7	62.9
53-70-3	Dibenzo(a,h)anthracene	62.9	U		49.1	62.9
191-24-2	Benzo(g,h,i)perylene	~~103~~			~~58.8~~	~~62.9~~

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0362A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761620 Lab File ID: 616-20.D

Sample wt/vol: 25.08 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0225

PercentSolids: 78.9 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	43.7		1.4	3.4
91-57-6	2-Methylnaphthalene	45.9		1.3	3.4
90-12-0	1-Methylnaphthalene	38.8		1.3	3.4
208-96-8	Acenaphthylene	28.7		1.3	3.4
83-32-9	Acenaphthene	19.9		1.3	3.4
86-73-7	Fluorene	16.9		1.3	3.4
85-01-8	Phenanthrene	223		1.3	3.4
120-12-7	Anthracene	51.7		1.3	3.4
206-44-0	Fluoranthene	400		1.3	3.4
129-00-0	Pyrene	326		1.3	3.4
56-55-3	Benzo(a)anthracene	354		1.4	3.4
218-01-9	Chrysene	293		1.3	3.4
205-99-2	Benzo(b)fluoranthene	386		1.9	3.4
207-08-9	Benzo(k)fluoranthene	154	J	2.1	3.4
50-32-8	Benzo(a)pyrene	228		1.8	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	86.8		3	3.4
53-70-3	Dibenzo(a,h)anthracene	35		2.6	3.4
191-24-2	Benzo(g,h,i)perylene	109		3.1	3.4

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.11 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
111-44-4	Bis(2-chloroethyl)ether	281	U	69.7	281
108-95-2	Phenol	1390	U	67.6	1390
95-57-8	2-Chlorophenol	281	U	71.7	281
108-60-1	2,2'-Oxybis(1-chloropropane)	281	U	229	281
95-48-7	2-Methylphenol	278	U	99.8	278
67-72-1	Hexachloroethane	281	U	52	281
621-64-7	N-Nitroso-di-n-propylamine	281	U	63.4	281
106-44-5	4-Methylphenol	281	U	61.3	281
98-95-3	Nitrobenzene	281	U	62.4	281
78-59-1	Isophorone	281	U	61.3	281
88-75-5	2-Nitrophenol	281	U	74.9	281
105-67-9	2,4-Dimethylphenol	278	U	59.3	278
111-91-1	Bis(2-chloroethoxy)methane	278	U	59.3	278
120-83-2	2,4-Dichlorophenol	278	U	78	278
91-20-3	Naphthalene	281	U	66.5	281
106-47-8	4-Chloroaniline	281	U	65.5	281
91-57-6	2-Methylnaphthalene	281	U	60.3	281
87-68-3	Hexachlorobutadiene	281	U	60.3	281
59-50-7	4-Chloro-3-methylphenol	281	U	58.2	281
90-12-0	1-Methylnaphthalene	281	U	64.5	281
77-47-4	Hexachlorocyclopentadiene	694	U	156	694
88-06-2	2,4,6-Trichlorophenol	278	U	70.7	278
95-95-4	2,4,5-Trichlorophenol	278	U	76.9	278
91-58-7	2-Chloronaphthalene	281	U	69.4	281
88-74-4	2-Nitroaniline	281	U	59.3	281
208-96-8	Acenaphthylene	281	U	57.2	281

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.11 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
131-11-3	Dimethylphthalate	281	U	61.3	281
606-20-2	2,6-Dinitrotoluene	281	U	52	281
83-32-9	Acenaphthene	281	U	50.9	281
99-09-2	3-Nitroaniline	278	U	83.2	278
51-28-5	2,4-Dinitrophenol	1390	U	229	1390
132-64-9	Dibenzofuran	281	U	56.1	281
121-14-2	2,4-Dinitrotoluene	281	U	50.9	281
100-02-7	4-Nitrophenol	694	U	55.1	694
86-73-7	Fluorene	281	U	53	281
7005-72-3	4-Chlorophenyl-phenylether	281	U	53	281
84-66-2	Diethylphthalate	281	U	53	281
100-01-6	4-Nitroaniline	278	U	91.5	278
534-52-1	4,6-Dinitro-2-methylphenol	281	U	276	281
86-30-6	N-Nitrosodiphenylamine	278	U	65.5	278
101-55-3	4-Bromophenyl-phenylether	281	U	50.9	281
118-74-1	Hexachlorobenzene	278	U	55.1	278
87-86-5	Pentachlorophenol	281	U	138	281
85-01-8	Phenanthrene	281	U	58.2	281
120-12-7	Anthracene	281	U	62.4	281
84-74-2	Di-n-butylphthalate	281	U	45.8	281
206-44-0	Fluoranthene	281	U	49.9	281
129-00-0	Pyrene	281	U	95.7	281
85-68-7	Butylbenzylphthalate	281	U	65.5	281
91-94-1	3,3'-Dichlorobenzidine	281	U	61.3	281
56-55-3	Benzo(a)anthracene	281	U	59.3	281
218-01-9	Chrysene	278	U	35.4	278

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.11 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
117-81-7	Bis(2-ethylhexyl)phthalate	281	U	86.3	281
117-84-0	Di-n-octylphthalate	281	U	60.3	281
205-99-2	Benzo(b)fluoranthene	281	U	65.5	281
207-08-9	Benzo(k)fluoranthene	281	U	59.3	281
50-32-8	Benzo(a)pyrene	281	U	44.7	281
193-39-5	Indeno(1,2,3-cd)pyrene	281	U	54.1	281
53-70-3	Dibenzo(a,h)anthracene	281	U	42.6	281
191-24-2	Benzo(g,h,i)perylene	281	U	41.6	281
98-86-2	Acetophenone	281	U	104	281
95-94-3	1,2,4,5-Tetrachlorobenzene	281	U	48.9	281
86-74-8	Carbazole	281	U	56.1	281
105-60-2	Caprolactam	281	U	146	281
92-52-4	1,1'-Biphenyl	281	U	63.4	281
1912-24-9	Atrazine	281	U	82.1	281
100-52-7	Benzaldehyde	281	U	46.8	281

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.41 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
111-44-4	Bis(2-chloroethyl)ether	296	U	73.4	296
108-95-2	Phenol	1460	U	71.2	1460
95-57-8	2-Chlorophenol	296	U	75.6	296
108-60-1	2,2'-Oxybis(1-chloropropane)	296	U	241	296
95-48-7	2-Methylphenol	293	U	105	293
67-72-1	Hexachloroethane	296	U	54.8	296
621-64-7	N-Nitroso-di-n-propylamine	296	U	66.9	296
106-44-5	4-Methylphenol	296	U	64.7	296
98-95-3	Nitrobenzene	296	U	65.8	296
78-59-1	Isophorone	296	U	64.7	296
88-75-5	2-Nitrophenol	296	U	78.9	296
105-67-9	2,4-Dimethylphenol	293	U	62.5	293
111-91-1	Bis(2-chloroethoxy)methane	293	U	62.5	293
120-83-2	2,4-Dichlorophenol	293	U	82.2	293
91-20-3	Naphthalene	296	U	70.2	296
106-47-8	4-Chloroaniline	296	U	69.1	296
91-57-6	2-Methylnaphthalene	296	U	63.6	296
87-68-3	Hexachlorobutadiene	296	U	63.6	296
59-50-7	4-Chloro-3-methylphenol	296	U	61.4	296
90-12-0	1-Methylnaphthalene	296	U	68	296
77-47-4	Hexachlorocyclopentadiene	731	U	164	731
88-06-2	2,4,6-Trichlorophenol	293	U	74.5	293
95-95-4	2,4,5-Trichlorophenol	293	U	81.1	293
91-58-7	2-Chloronaphthalene	296	U	73.1	296
88-74-4	2-Nitroaniline	296	U	62.5	296
208-96-8	Acenaphthylene	296	U	60.3	296

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.41 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
131-11-3	Dimethylphthalate	296	U	64.7	296
606-20-2	2,6-Dinitrotoluene	296	U	54.8	296
83-32-9	Acenaphthene	296	U	53.7	296
99-09-2	3-Nitroaniline	293	U	87.7	293
51-28-5	2,4-Dinitrophenol	1470	U	241	1470
132-64-9	Dibenzofuran	296	U	59.2	296
121-14-2	2,4-Dinitrotoluene	296	U	53.7	296
100-02-7	4-Nitrophenol	731	U	58.1	731
86-73-7	Fluorene	296	U	55.9	296
7005-72-3	4-Chlorophenyl-phenylether	296	U	55.9	296
84-66-2	Diethylphthalate	296	U	55.9	296
100-01-6	4-Nitroaniline	293	U	96.5	293
534-52-1	4,6-Dinitro-2-methylphenol	296	U	292	296
86-30-6	N-Nitrosodiphenylamine	293	U	69.1	293
101-55-3	4-Bromophenyl-phenylether	296	U	53.7	296
118-74-1	Hexachlorobenzene	293	U	58.1	293
87-86-5	Pentachlorophenol	296	U	146	296
85-01-8	Phenanthrene	766		61.4	296
120-12-7	Anthracene	296	U	65.8	296
84-74-2	Di-n-butylphthalate	296	U	48.2	296
206-44-0	Fluoranthene	889		52.6	296
129-00-0	Pyrene	716		101	296
85-68-7	Butylbenzylphthalate	296	U	69.1	296
91-94-1	3,3'-Dichlorobenzidine	296	U	64.7	296
56-55-3	Benzo(a)anthracene	523		62.5	296
218-01-9	Chrysene	596		37.3	293

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.41 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
117-81-7	Bis(2-ethylhexyl)phthalate	296	U	91	296
117-84-0	Di-n-octylphthalate	296	U	63.6	296
205-99-2	Benzo(b)fluoranthene	598		69.1	296
207-08-9	Benzo(k)fluoranthene	430		62.5	296
50-32-8	Benzo(a)pyrene	472		47.1	296
193-39-5	Indeno(1,2,3-cd)pyrene	296	U	57	296
53-70-3	Dibenzo(a,h)anthracene	296	U	44.9	296
191-24-2	Benzo(g,h,i)perylene	322		43.8	296
98-86-2	Acetophenone	296	U	110	296
95-94-3	1,2,4,5-Tetrachlorobenzene	296	U	51.5	296
86-74-8	Carbazole	296	U	59.2	296
105-60-2	Caprolactam	296	U	153	296
92-52-4	1,1'-Biphenyl	296	U	66.9	296
1912-24-9	Atrazine	296	U	86.6	296
100-52-7	Benzaldehyde	296	U	49.3	296

Data Validation Checklist
Inorganic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	Spectrum Analytical, Inc., Tampa, FL	SDG No.:	3507616
Method:	SW-846 6010B and 7471A	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	11/14/12
Reviewer:	Nicole Lancaster	Date:	01/04/2013
Concurrence[1]:	Martha Meyers-Lee	Date:	01/09/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months). If not, then J- flag positive results and R- flag non-detect aqueous results.		✓			
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10th sample, and at the end of each analytical run?	✓				
10. Were target analytes detected in the method and/or calibration blanks?		✓			
11. Were target analytes reported in equipment blank analyses above the DL?		✓		Target analytes were not detected during the analysis of the rinsate blank RB-11-13-12 (3507601-11), which was collected during the week of 11/12/12 and analyzed under SDG No. 3507601.	
12. Were contaminants detected in samples below the blank			✓	Blank contamination does not exist.	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
contamination action level? o If blank result > RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results o If blank result ≤RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results					
13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.		✓			
14. Was a field duplicate analyzed?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? o 6010B: • ICAL: Blank and one standard • ICV initially, and CCV every 10th sample and at the end of the analytical run o 7470A/7471A: • ICAL: Blank and five standards • ICV initially, and CCV every 10th sample and at the end of the analytical run	✓			• 6010B: 11/21/12. Six (6) Initial calibration standards. ICV initially, and CCV every 10 samples and at end of run • 7471A: 11/21/12. 6-Point ICAL. ICV initially, CCV every 10 samples and at end of run	
17. Were these results within lab/project specifications? o 6010B (ICV/CCV Criteria: 90-110%R): • If %R <75, then J- flag positive results and R-flag non-detects • If 75-89%R, then J- flag positive results and UJ flag non-detects • If 111-125%R, then J flag positive results • If >125%R, then J+ flag positive results • If >160%R, then R flag positive results o 7470A/7471A: • If correlation coefficients <0.995, then J and UJ flag positive and non-detect results. • If %R <65, then J- flag positive results and R-flag non-detects • If 65-79%R, then J- flag positive results and UJ flag non-	✓			Mercury correlation coefficients (raw data): • 7471A: ICAL of 11/21/12. 0.99959 (page 2588)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
detects • If 121-135%R, then J flag positive results • If >135%R, then J+ flag positive results • If >170%R, then R flag positive results					
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	✓				
19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level: o If >120%R (or >true value plus 2x CRQL), J+ flag positive results o If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects o If <50%R, J- flag positive results and R-flag non-detects	✓				
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	✓				
21. Did LCS recoveries meet laboratory/project (80-120%R) specifications? o Soil: • LCS result > Upper control limit (UCL): J+ flag positive results • LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects o Aqueous: • If <50%R, then J- and R flag positive and ND results, respectively • If 50-LCL%R, J- and UJ flag positive and ND results, respectively • >UCL: J+ Flag positive results • >150%R: R Flag results	✓				
22. Was the RPD between LCS and LCSD results within laboratory /project control limits (≤20%RPD)? If not, J and UJ flag positive and non-detect results, respectively	✓				
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	✓			According to the Preparation Logs (Form 13), a LCS and LCSD were prepared for all methods, instead of a MS and MSD. Form 5A was not included in the data package. The following MS and MSD samples were identified during the review of Analysis Run Logs (Form 14) and raw data:	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				• 6010B: 3507600-07 (Batch) • 7471A: 3507622-01 (Batch)	
24. Is the MS and MSD parent sample a project-specific sample?		✓			
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?	✓			A summary of PDS results were reported on Form 5B of the data package for the following samples: • 6010B: 3507600-07 (Batch) & 3507618-01 (Batch) • 7471A: 3507622-01 (Batch)	
26. For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within laboratory/project control limits (MS, MSD, and PDS: 75-125%R)? *Only QC results for project samples are evaluated.* If not, o 6010B: • If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively • If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results • If MS, MSD, and PDS %R >125, J+ flag positive results • If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results • If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results • If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively • If MS and MSD %R >125 and no PDS, then J+ flag positive results o 7470A/7471A: • If MS %R <30, then J- and R Flag positive and ND results, respectively • If MS and MSD %R 30-74, then J- flag positive and UJ flag non-detect results • If MS and MSD %R >125, then J+ flag positive results			✓		
27. Were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? *Only QC results for project samples are evaluated.* o If RPD >20%, J and UJ flag positive and non-detect results.			✓		

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Was a serial dilution conducted for 6010B?	✓			A summary of serial dilution results were reported on Form 9 of the data package for the following samples: • 6010B: 3507616-02 (CV0041B-CS) & 3507618-01 (Batch) • 7471A: 3507622-01 (Batch)	
29. Is the serial dilution parent sample a project-specific sample?	✓	✓			
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? *Only QC results for project samples are evaluated.* o If %D >10, J and UJ flag positive and non-detect results, respectively.		✓		CV0041B-CS (3507616-02), 6010B: Lead @ 14%D (≤10). J-flag due to significant chemical and matrix interference.	J
31. Was a laboratory duplicate analyzed?		✓		Laboratory duplicate sample analyses were not conducted. An evaluation of precision was based on the results of the LCS and LCSD results.	
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		
33. Were criteria for laboratory/project precision met? *Only QC results for project samples are evaluated.* o If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively			✓		
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	✓			Refer to **Attachment B** (Case Narratives)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review* (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (**Attachment C**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment

DV Flag Definitions:

J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site

Lab Code : PEL Case No.: SDG No.: 3507616

SOW No.:

EPA Sample No	Lab Sample ID
CV0041B-CS	350761602
CV0043C-CS	350761605
FM0263C-CS-SP	350761610
FM0126C-GS-SP	350761613
FM0126C-GS-SPDL1	350761613DL1
CV0699B-CS	350761615

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before application of background corrections?	Yes/No	No

Comments:

301112 1331

ATTACHMENT B

CASE NARRATIVE

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW6010B

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3050B.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met with the exception of:

Post Digestion Spike 350761801A was analyzed with the soil samples on 11/28/12. The following analyte(s) were recovered below criteria: Lead at 55.4 % with criteria of (80-120).
Post Digestion Spike 350760007A was analyzed with the soil samples on 11/21/12. The following analyte(s) were recovered below criteria: Lead at 77.2 % with criteria of (80-120).

The PDS are associated with the QC of a different SDG. The LCS/LCSD pass all quality control criteria. No further action was taken.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met with the exception of:

Serial Dilution 350761602L was analyzed with the soil samples on 11/21/12. The following analyte(s) exceeded criteria: Lead at 14 % with criteria of (10).
Samples coded accordingly.

The most probable cause for the Serial Dilution exceeding limits is sample matrix due to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Sample FM0126C-GS-SP required a 2X dilution due to high concentration of the following analyte(s): Lead.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: _____

Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: DATE: 11/29/2012

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW7471A

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

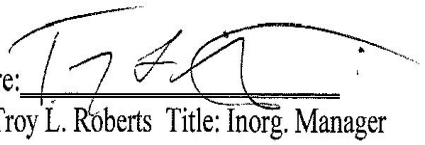
Sample CV0362B-CS required a 2X dilution due to high concentration of the following analyte(s): Mercury.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: DATE: 11/29/2012

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

B The reported value obtained was less than the RL but greater than or equal to the MDL.

E The reported value obtained was over calibration or linear range.

U The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

U The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.

M Duplicate injection precision was not met (two analyses of the same sample did not agree).

N Spiked sample recovery not within control limits.

E Serial Dilution percent difference not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA).

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

***** Duplicate analysis not within control limits.

+ Correlation coefficient for the MSA is less than 0.995.

X The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can apear in the same field.

M (Method) Qualifier - Enter one of the following:

P ICP
A Flame AA
F Furnace AA
CV Manual Cold Vapor AA
TC Total Organic Carbon
AS Semi-Automated Spectrophotometric
CA Midi-Distillation Spectrophotometric
T Titrimetric
C Manual Spectrophotometric
GR Gravimetric
NR Analyte was not required by your lab

Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

A Post Digestion Spike.

L Serial Dilution.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0041B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761602

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 83.7 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.7			P		0.38	0.761
7440-39-3	Barium	127			P		0.122	7.61
7440-43-9	Cadmium	0.632			P		0.038	0.38
7440-47-3	Chromium	21.3			P		0.122	0.761
7439-92-1	Lead	183		J E	P		0.259	0.609
7439-97-6	Mercury	0.119			CV		0.00392	0.035
7782-49-2	Selenium	7.72			P		0.304	1.52
7440-22-4	Silver	1.14	U		P		0.122	1.14

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 76.6 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.9			P		0.558	1.12
7440-39-3	Barium	87			P		0.178	11.2
7440-43-9	Cadmium	0.822			P		0.0558	0.558
7440-47-3	Chromium	30.3			P		0.178	1.12
7439-92-1	Lead	117			P		0.379	0.893
7439-97-6	Mercury	0.101			CV		0.0043	0.0383
7782-49-2	Selenium	2.23	U		P		0.446	2.23
7440-22-4	Silver	1.67	U		P		0.178	1.67

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0263C-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761610

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 77.9 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	18.2			P		0.637	1.27
7440-39-3	Barium	189			P		0.204	12.7
7440-43-9	Cadmium	0.637	U		P		0.0637	0.637
7440-47-3	Chromium	31.6			P		0.204	1.27
7439-92-1	Lead	166			P		0.433	1.02
7439-97-6	Mercury	0.166			CV		0.00418	0.0373
7782-49-2	Selenium	2.55	U		P		0.509	2.55
7440-22-4	Silver	1.91	U		P		0.204	1.91

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 71.8 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.1			P		0.63	1.26
7440-39-3	Barium	95.4			P		0.201	12.6
7440-43-9	Cadmium	1.41			P		0.063	0.63
7440-47-3	Chromium	29.3			P		0.201	1.26
7439-97-6	Mercury	0.121			CV		0.00404	0.036
7782-49-2	Selenium	2.52	U		P		0.504	2.52
7440-22-4	Silver	1.89	U		P		0.201	1.89

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0126C-GS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613DL1

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 71.8 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-92-1	Lead	712			P		0.856	2.01

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0699B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761615

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 80.8 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.4			P		0.514	1.03
7440-39-3	Barium	89.7			P		0.164	10.3
7440-43-9	Cadmium	0.514	U		P		0.0514	0.514
7440-47-3	Chromium	55.6			P		0.164	1.03
7439-92-1	Lead	63.8			P		0.349	0.822
7439-97-6	Mercury	0.12			CV		0.00393	0.0351
7782-49-2	Selenium	2.06	U		P		0.411	2.06
7440-22-4	Silver	1.54	U		P		0.164	1.54

Color Before: _____ Clarity Before: _____ Texture :_____

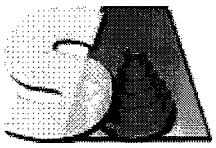
Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Date Reported:
19-Dec-12



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

Project # 3507616 R1
Project: 35th Avenue Removal Site 2005148 1356

Attn: Limari Krebs

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
350761601	CV0041A-CS	S	14-Nov-12 10:25	16-Nov-12 10:02
350761602	CV0041B-CS	S	14-Nov-12 10:45	16-Nov-12 10:02
350761603	CV0043A-CS	S	14-Nov-12 11:25	16-Nov-12 10:02
350761604	CV0043B-CS	S	14-Nov-12 11:50	16-Nov-12 10:02
350761605	CV0043C-CS	S	14-Nov-12 12:25	16-Nov-12 10:02
350761606	CV0192A-CS	S	14-Nov-12 9:00	16-Nov-12 10:02
350761607	CV0192B-CS	S	14-Nov-12 9:30	16-Nov-12 10:02
350761608	FM0263A-CS-SP	S	14-Nov-12 9:32	16-Nov-12 10:02
350761609	FM0263B-CS-SP	S	14-Nov-12 10:25	16-Nov-12 10:02
350761610	FM0263C-CS-SP	S	14-Nov-12 10:56	16-Nov-12 10:02
350761611	FM0126A-CS-SP	S	14-Nov-12 11:53	16-Nov-12 10:02
350761612	FM0126B-CS-SP	S	14-Nov-12 12:14	16-Nov-12 10:02
350761613	FM0126C-GS-SP	S	14-Nov-12 12:08	16-Nov-12 10:02
350761614	CV0699A-CS	S	14-Nov-12 11:30	16-Nov-12 10:02
350761615	CV0699B-CS	S	14-Nov-12 12:05	16-Nov-12 10:02
350761616	CV0699C-CS	S	14-Nov-12 12:27	16-Nov-12 10:02
350761617	FM0210A-CS	S	14-Nov-12 9:19	16-Nov-12 10:02
350761618	FM0210B-CS	S	14-Nov-12 9:50	16-Nov-12 10:02
350761619	FM0210C-CS	S	14-Nov-12 10:15	16-Nov-12 10:02
350761620	CV0362A-CS	S	14-Nov-12 15:30	16-Nov-12 10:02

Date Reported:
19-Dec-12

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

Project # 3507616 R1
Project: 35th Avenue Removal Site 2005148 1356

Attn: Limari Krebs

Soil samples are reported on dry weight basis, unless otherwise noted.

Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-12-4
South Carolina	96011001
North Dakota	R-178
California	07253CA
Louisiana	02025
Kansas	E-10385
Arkansas	11-036-1

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2259 Testing

Respectfully Submitted,

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

Report Revision LOG

SDG: 3507616

Revision	Reason
R1	Revised to include the SDG specific MS/MSD summary forms (8270 and 8270SIM). Case narratives were revised. The raw data for the MS/MSD runs are added at the end of the respective raw data sections. See the Addendum for additional details.

Table of Contents

EXECUTIVE SUMMARY - Detection Highlights

3507616

SAMPLE ID: CV0041A-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	44.0	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	53.2	3.3	UG/KG	SW8270D-SIM
Acenaphthene	7.50	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	10.4	3.3	UG/KG	SW8270D-SIM
Anthracene	21.4	3.3	UG/KG	SW8270D-SIM
Benzo(a)anthracene	155	3.3	UG/KG	SW8270D-SIM
Benzo(a)pyrene	132	3.3	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	245	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	94.6	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	71.5	3.3	UG/KG	SW8270D-SIM
Chrysene	173	3.3	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	25.1	3.3	UG/KG	SW8270D-SIM
Fluoranthene	234	3.3	UG/KG	SW8270D-SIM
Fluorene	7.20	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	71.0	3.3	UG/KG	SW8270D-SIM
Naphthalene	48.1	3.3	UG/KG	SW8270D-SIM
Phenanthrene	126	3.3	UG/KG	SW8270D-SIM
Pyrene	186	3.3	UG/KG	SW8270D-SIM

SAMPLE ID: CV0041B-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Arsenic	12.7	0.761	MG/KG	SW6010B
Barium	127	7.61	MG/KG	SW6010B
Cadmium	0.632	0.380	MG/KG	SW6010B
Chromium	21.3	0.761	MG/KG	SW6010B
Lead	183 E	0.609	MG/KG	SW6010B
Selenium	7.72	1.52	MG/KG	SW6010B
Mercury	0.119	0.0350	MG/KG	SW7471A
1-Methylnaphthalene	37.9	3.1	UG/KG	SW8270D-SIM
2-Methylnaphthalene	49.6	3.1	UG/KG	SW8270D-SIM
Acenaphthene	5.50	3.1	UG/KG	SW8270D-SIM
Acenaphthylene	9.50	3.1	UG/KG	SW8270D-SIM
Anthracene	13.9	3.1	UG/KG	SW8270D-SIM
Benzo(a)anthracene	100	3.1	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Benzo(a)pyrene	84.0	3.1	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	167	3.1	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	67.3	3.1	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	49.4	3.1	UG/KG	SW8270D-SIM
Chrysene	113	3.1	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	16.3	3.1	UG/KG	SW8270D-SIM
Fluoranthene	132	3.1	UG/KG	SW8270D-SIM
Fluorene	6.30	3.1	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	50.8	3.1	UG/KG	SW8270D-SIM
Naphthalene	45.1	3.1	UG/KG	SW8270D-SIM
Phenanthrene	77.4	3.1	UG/KG	SW8270D-SIM
Pyrene	107	3.1	UG/KG	SW8270D-SIM

SAMPLE ID: CV0043A-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	53.7	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	88.9	3.4	UG/KG	SW8270D-SIM
Acenaphthene	5.90	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	15.5	3.4	UG/KG	SW8270D-SIM
Anthracene	20.1	3.4	UG/KG	SW8270D-SIM
Benzo(a)anthracene	131	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	121	3.4	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	232	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	95.3	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	78.6	3.4	UG/KG	SW8270D-SIM
Chrysene	140	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	26.8	3.4	UG/KG	SW8270D-SIM
Fluoranthene	170	3.4	UG/KG	SW8270D-SIM
Fluorene	6.40	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	74.8	3.4	UG/KG	SW8270D-SIM
Naphthalene	89.9	3.4	UG/KG	SW8270D-SIM
Phenanthrene	102	3.4	UG/KG	SW8270D-SIM
Pyrene	146	3.4	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: CV0043B-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	19.7	3.5	UG/KG	SW8270D-SIM
2-Methylnaphthalene	26.9	3.5	UG/KG	SW8270D-SIM
Acenaphthylene	4.20	3.5	UG/KG	SW8270D-SIM
Anthracene	7.60	3.5	UG/KG	SW8270D-SIM
Benzo(a)anthracene	53.9	3.5	UG/KG	SW8270D-SIM
Benzo(a)pyrene	53.4	3.5	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	105	3.5	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	42.3	3.5	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	30.3	3.5	UG/KG	SW8270D-SIM
Chrysene	61.4	3.5	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	7.40	3.5	UG/KG	SW8270D-SIM
Fluoranthene	90.5	3.5	UG/KG	SW8270D-SIM
Fluorene	3.90	3.5	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	30.0	3.5	UG/KG	SW8270D-SIM
Naphthalene	30.0	3.5	UG/KG	SW8270D-SIM
Phenanthrene	51.0	3.5	UG/KG	SW8270D-SIM
Pyrene	66.9	3.5	UG/KG	SW8270D-SIM

SAMPLE ID: CV0043C-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Arsenic	12.9	1.12	MG/KG	SW6010B
Barium	87.0	11.2	MG/KG	SW6010B
Cadmium	0.822	0.558	MG/KG	SW6010B
Chromium	30.3	1.12	MG/KG	SW6010B
Lead	117	0.893	MG/KG	SW6010B
Mercury	0.101	0.0383	MG/KG	SW7471A
1-Methylnaphthalene	15.9	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	24.6	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	4.50	3.4	UG/KG	SW8270D-SIM
Anthracene	8.40	3.4	UG/KG	SW8270D-SIM
Benzo(a)anthracene	61.8	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	62.2	3.4	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	68.9	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	51.5	3.4	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Benzo(k)fluoranthene	58.9	3.4	UG/KG	SW8270D-SIM
Chrysene	63.4	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	22.1	3.4	UG/KG	SW8270D-SIM
Fluoranthene	77.1	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	44.5	3.4	UG/KG	SW8270D-SIM
Naphthalene	23.3	3.4	UG/KG	SW8270D-SIM
Phenanthrene	45.5	3.4	UG/KG	SW8270D-SIM
Pyrene	65.1	3.4	UG/KG	SW8270D-SIM

SAMPLE ID: CV0192A-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	292	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	349	3.2	UG/KG	SW8270D-SIM
Acenaphthene	14.4	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	13.8	3.2	UG/KG	SW8270D-SIM
Anthracene	14.9	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	92.4	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	66.0	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	122	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	45.0	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	40.0	3.2	UG/KG	SW8270D-SIM
Chrysene	111	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	11.2	3.2	UG/KG	SW8270D-SIM
Fluoranthene	108	3.2	UG/KG	SW8270D-SIM
Fluorene	15.4	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	30.2	3.2	UG/KG	SW8270D-SIM
Naphthalene	194	3.2	UG/KG	SW8270D-SIM
Phenanthrene	215	3.2	UG/KG	SW8270D-SIM
Pyrene	99.8	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: CV0192B-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	84.8	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	107	3.2	UG/KG	SW8270D-SIM
Acenaphthene	25.4	3.2	UG/KG	SW8270D-SIM

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EXECUTIVE SUMMARY - Detection Highlights

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Acenaphthylene	41.7	3.2	UG/KG	SW8270D-SIM
Anthracene	58.7	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	216	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	169	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	364	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	125	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	120	3.2	UG/KG	SW8270D-SIM
Chrysene	213	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	39.1	3.2	UG/KG	SW8270D-SIM
Fluoranthene	296	3.2	UG/KG	SW8270D-SIM
Fluorene	22.8	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	95.2	3.2	UG/KG	SW8270D-SIM
Naphthalene	80.6	3.2	UG/KG	SW8270D-SIM
Phenanthrene	238	3.2	UG/KG	SW8270D-SIM
Pyrene	231	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: CV0362A-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	38.8	3.4	UG/KG	SW8270D-SIM
2-Methylnaphthalene	45.9	3.4	UG/KG	SW8270D-SIM
Acenaphthene	19.9	3.4	UG/KG	SW8270D-SIM
Acenaphthylene	28.7	3.4	UG/KG	SW8270D-SIM
Anthracene	51.7	3.4	UG/KG	SW8270D-SIM
Benzo(a)anthracene	354	3.4	UG/KG	SW8270D-SIM
Benzo(a)pyrene	228	3.4	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	386	3.4	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	109	3.4	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	154	3.4	UG/KG	SW8270D-SIM
Chrysene	293	3.4	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	35.0	3.4	UG/KG	SW8270D-SIM
Fluoranthene	400	3.4	UG/KG	SW8270D-SIM
Fluorene	16.9	3.4	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	86.8	3.4	UG/KG	SW8270D-SIM
Naphthalene	43.7	3.4	UG/KG	SW8270D-SIM
Phenanthrene	223	3.4	UG/KG	SW8270D-SIM
Pyrene	326	3.4	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: CV0699A-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	33.4	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	47.2	3.2	UG/KG	SW8270D-SIM
Acenaphthene	7.30	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	8.70	3.2	UG/KG	SW8270D-SIM
Anthracene	19.4	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	132	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	117	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	204	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	60.4	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	52.1	3.2	UG/KG	SW8270D-SIM
Chrysene	129	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	16.4	3.2	UG/KG	SW8270D-SIM
Fluoranthene	143	3.2	UG/KG	SW8270D-SIM
Fluorene	7.90	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	51.0	3.2	UG/KG	SW8270D-SIM
Naphthalene	44.7	3.2	UG/KG	SW8270D-SIM
Phenanthrene	106	3.2	UG/KG	SW8270D-SIM
Pyrene	119	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: CV0699B-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Arsenic	12.4	1.03	MG/KG	SW6010B
Barium	89.7	10.3	MG/KG	SW6010B
Chromium	55.6	1.03	MG/KG	SW6010B
Lead	63.8	0.822	MG/KG	SW6010B
Mercury	0.120	0.0351	MG/KG	SW7471A
1-Methylnaphthalene	24.9	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	32.1	3.3	UG/KG	SW8270D-SIM
Acenaphthene	24.7	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	8.20	3.3	UG/KG	SW8270D-SIM
Anthracene	98.2	3.3	UG/KG	SW8270D-SIM
Benzo(a)pyrene	466	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	186	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	278	3.3	UG/KG	SW8270D-SIM

Dibenzo(a,h)anthracene	73.6	3.3	UG/KG	SW8270D-SIM
Fluorene	17.2	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	171	3.3	UG/KG	SW8270D-SIM
Naphthalene	36.3	3.3	UG/KG	SW8270D-SIM
Phenanthrene	328	3.3	UG/KG	SW8270D-SIM

SAMPLE ID: CV0699B-CSDL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Benzo(a)anthracene	667	66	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	765	66	UG/KG	SW8270D-SIM
Chrysene	623	66	UG/KG	SW8270D-SIM
Fluoranthene	1270	66	UG/KG	SW8270D-SIM
Pyrene	1120	66	UG/KG	SW8270D-SIM

SAMPLE ID: CV0699C-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	33.4	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	45.6	3.2	UG/KG	SW8270D-SIM
Acenaphthene	12.0	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	6.20	3.2	UG/KG	SW8270D-SIM
Anthracene	25.2	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	109	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	92.7	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	168	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	50.6	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	58.8	3.2	UG/KG	SW8270D-SIM
Chrysene	106	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	12.0	3.2	UG/KG	SW8270D-SIM
Fluoranthene	148	3.2	UG/KG	SW8270D-SIM
Fluorene	12.6	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	37.8	3.2	UG/KG	SW8270D-SIM
Naphthalene	48.6	3.2	UG/KG	SW8270D-SIM
Phenanthrene	113	3.2	UG/KG	SW8270D-SIM
Pyrene	112	3.2	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: FM0126A-CS-SP

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	15.3	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	22.2	3.2	UG/KG	SW8270D-SIM
Acenaphthene	7.00	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	4.10	3.2	UG/KG	SW8270D-SIM
Anthracene	13.7	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	62.9	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	52.4	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	93.7	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	28.0	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	30.6	3.2	UG/KG	SW8270D-SIM
Chrysene	65.5	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	4.00	3.2	UG/KG	SW8270D-SIM
Fluoranthene	109	3.2	UG/KG	SW8270D-SIM
Fluorene	6.40	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	24.6	3.2	UG/KG	SW8270D-SIM
Naphthalene	31.7	3.2	UG/KG	SW8270D-SIM
Phenanthrene	76.0	3.2	UG/KG	SW8270D-SIM
Pyrene	84.8	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: FM0126B-CS-SP

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	34.1	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	52.8	3.3	UG/KG	SW8270D-SIM
Acenaphthene	3.30	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	3.70	3.3	UG/KG	SW8270D-SIM
Anthracene	8.20	3.3	UG/KG	SW8270D-SIM
Benzo(a)anthracene	50.1	3.3	UG/KG	SW8270D-SIM
Benzo(a)pyrene	41.6	3.3	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	83.6	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	23.8	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	28.0	3.3	UG/KG	SW8270D-SIM
Chrysene	61.2	3.3	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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Fluoranthene	76.6	3.3	UG/KG	SW8270D-SIM
Fluorene	3.70	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	20.2	3.3	UG/KG	SW8270D-SIM
Naphthalene	47.4	3.3	UG/KG	SW8270D-SIM
Phenanthrene	69.5	3.3	UG/KG	SW8270D-SIM
Pyrene	59.1	3.3	UG/KG	SW8270D-SIM

SAMPLE ID: FM0126C-GS-SP

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Arsenic	12.1	1.26	MG/KG	SW6010B
Barium	95.4	12.6	MG/KG	SW6010B
Cadmium	1.41	0.630	MG/KG	SW6010B
Chromium	29.3	1.26	MG/KG	SW6010B
Mercury	0.121	0.0360	MG/KG	SW7471A
Benzo(a)anthracene	523	300	UG/KG	SW8270D
Benzo(a)pyrene	472	300	UG/KG	SW8270D
Benzo(b)fluoranthene	598	300	UG/KG	SW8270D
Benzo(g,h,i)perylene	322	300	UG/KG	SW8270D
Benzo(k)fluoranthene	430	300	UG/KG	SW8270D
Chrysene	596	290	UG/KG	SW8270D
Fluoranthene	889	300	UG/KG	SW8270D
Phenanthrene	766	300	UG/KG	SW8270D
Pyrene	716	300	UG/KG	SW8270D
1-Methylnaphthalene	52.6	3.6	UG/KG	SW8270D-SIM
2-Methylnaphthalene	89.5	3.6	UG/KG	SW8270D-SIM
Acenaphthene	120	3.6	UG/KG	SW8270D-SIM
Acenaphthylene	11.3	3.6	UG/KG	SW8270D-SIM
Anthracene	214	3.6	UG/KG	SW8270D-SIM
Benzo(a)anthracene	584 E	3.6	UG/KG	SW8270D-SIM
Benzo(a)pyrene	510	3.6	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	487	3.6	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	304	3.6	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	543	3.6	UG/KG	SW8270D-SIM
Chrysene	579 E	3.6	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	175	3.6	UG/KG	SW8270D-SIM
Fluoranthene	841 E	3.6	UG/KG	SW8270D-SIM
Fluorene	110	3.6	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	288	3.6	UG/KG	SW8270D-SIM
Naphthalene	158	3.6	UG/KG	SW8270D-SIM

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Phenanthrene	735 E	3.6	UG/KG	SW8270D-SIM
Pyrene	636 E	3.6	UG/KG	SW8270D-SIM

SAMPLE ID: FM0126C-GS-SPDL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Lead	712	2.01	MG/KG	SW6010B

SAMPLE ID: FM0210A-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	11.8	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	16.2	3.2	UG/KG	SW8270D-SIM
Anthracene	3.50	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	24.0	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	19.3	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	33.0	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	10.6	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	11.9	3.2	UG/KG	SW8270D-SIM
Chrysene	26.7	3.2	UG/KG	SW8270D-SIM
Fluoranthene	33.0	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	8.40	3.2	UG/KG	SW8270D-SIM
Naphthalene	21.6	3.2	UG/KG	SW8270D-SIM
Phenanthrene	24.3	3.2	UG/KG	SW8270D-SIM
Pyrene	26.6	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: FM0210B-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	33.1	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	41.8	3.2	UG/KG	SW8270D-SIM
Acenaphthene	5.60	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	4.90	3.2	UG/KG	SW8270D-SIM

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EXECUTIVE SUMMARY - Detection Highlights

3507616

Anthracene	10.3	3.2	UG/KG	SW8270D-SIM
Benzo(a)anthracene	56.2	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	39.6	3.2	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	74.8	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	22.1	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	25.0	3.2	UG/KG	SW8270D-SIM
Chrysene	67.4	3.2	UG/KG	SW8270D-SIM
Fluoranthene	85.9	3.2	UG/KG	SW8270D-SIM
Fluorene	6.30	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	16.0	3.2	UG/KG	SW8270D-SIM
Naphthalene	42.6	3.2	UG/KG	SW8270D-SIM
Phenanthrene	85.8	3.2	UG/KG	SW8270D-SIM
Pyrene	76.0	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: FM0210C-CS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	43.7	3.1	UG/KG	SW8270D-SIM
2-Methylnaphthalene	49.8	3.1	UG/KG	SW8270D-SIM
Acenaphthene	31.8	3.1	UG/KG	SW8270D-SIM
Acenaphthylene	12.2	3.1	UG/KG	SW8270D-SIM
Anthracene	63.4	3.1	UG/KG	SW8270D-SIM
Benzo(a)anthracene	290	3.1	UG/KG	SW8270D-SIM
Benzo(a)pyrene	196	3.1	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	403	3.1	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	96.8	3.1	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	142	3.1	UG/KG	SW8270D-SIM
Chrysene	280	3.1	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	27.9	3.1	UG/KG	SW8270D-SIM
Fluorene	23.9	3.1	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	77.2	3.1	UG/KG	SW8270D-SIM
Naphthalene	48.8	3.1	UG/KG	SW8270D-SIM
Phenanthrene	382	3.1	UG/KG	SW8270D-SIM
Pyrene	440	3.1	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: FM0210C-CSDL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Fluoranthene	658	63	UG/KG	SW8270D-SIM

SAMPLE ID: FM0263A-CS-SP

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	37.1	3.3	UG/KG	SW8270D-SIM
2-Methylnaphthalene	44.7	3.3	UG/KG	SW8270D-SIM
Acenaphthene	87.5	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	21.2	3.3	UG/KG	SW8270D-SIM
Anthracene	204	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	256	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	281	3.3	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	93.2	3.3	UG/KG	SW8270D-SIM
Fluorene	79.6	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	221	3.3	UG/KG	SW8270D-SIM
Naphthalene	62.1	3.3	UG/KG	SW8270D-SIM

SAMPLE ID: FM0263A-CS-SPDL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Benzo(a)anthracene	677	67	UG/KG	SW8270D-SIM
Benzo(a)pyrene	499	67	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	834	67	UG/KG	SW8270D-SIM
Chrysene	672	67	UG/KG	SW8270D-SIM
Fluoranthene	1300	67	UG/KG	SW8270D-SIM
Phenanthrene	818	67	UG/KG	SW8270D-SIM
Pyrene	928	67	UG/KG	SW8270D-SIM

EXECUTIVE SUMMARY - Detection Highlights

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SAMPLE ID: FM0263B-CS-SP

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1-Methylnaphthalene	48.7	3.2	UG/KG	SW8270D-SIM
2-Methylnaphthalene	57.1	3.2	UG/KG	SW8270D-SIM
Acenaphthene	73.8	3.2	UG/KG	SW8270D-SIM
Acenaphthylene	14.2	3.2	UG/KG	SW8270D-SIM
Anthracene	123	3.2	UG/KG	SW8270D-SIM
Benzo(a)pyrene	408	3.2	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	208	3.2	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	267	3.2	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	68.3	3.2	UG/KG	SW8270D-SIM
Fluorene	61.2	3.2	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	175	3.2	UG/KG	SW8270D-SIM
Naphthalene	53.4	3.2	UG/KG	SW8270D-SIM

SAMPLE ID: FM0263B-CS-SPDL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Benzo(a)anthracene	487	64	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	624	64	UG/KG	SW8270D-SIM
Chrysene	551	64	UG/KG	SW8270D-SIM
Fluoranthene	1240	64	UG/KG	SW8270D-SIM
Phenanthrene	1060	64	UG/KG	SW8270D-SIM
Pyrene	1060	64	UG/KG	SW8270D-SIM

SAMPLE ID: FM0263C-CS-SP

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Arsenic	18.2	1.27	MG/KG	SW6010B
Barium	189	12.7	MG/KG	SW6010B
Chromium	31.6	1.27	MG/KG	SW6010B
Lead	166	1.02	MG/KG	SW6010B
Mercury	0.166	0.0373	MG/KG	SW7471A
1-Methylnaphthalene	57.0	3.3	UG/KG	SW8270D-SIM

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EXECUTIVE SUMMARY - Detection Highlights

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2-Methylnaphthalene	78.2	3.3	UG/KG	SW8270D-SIM
Acenaphthene	176	3.3	UG/KG	SW8270D-SIM
Acenaphthylene	23.2	3.3	UG/KG	SW8270D-SIM
Anthracene	281	3.3	UG/KG	SW8270D-SIM
Benzo(g,h,i)perylene	362	3.3	UG/KG	SW8270D-SIM
Benzo(k)fluoranthene	455	3.3	UG/KG	SW8270D-SIM
Dibenzo(a,h)anthracene	115	3.3	UG/KG	SW8270D-SIM
Fluorene	156	3.3	UG/KG	SW8270D-SIM
Indeno(1,2,3-cd)pyrene	276	3.3	UG/KG	SW8270D-SIM
Naphthalene	148	3.3	UG/KG	SW8270D-SIM

SAMPLE ID: FM0263C-CS-SPDL1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Benzo(a)anthracene	951	66	UG/KG	SW8270D-SIM
Benzo(a)pyrene	722	66	UG/KG	SW8270D-SIM
Benzo(b)fluoranthene	1280	66	UG/KG	SW8270D-SIM
Chrysene	943	66	UG/KG	SW8270D-SIM
Fluoranthene	2120	66	UG/KG	SW8270D-SIM
Phenanthrene	1990	66	UG/KG	SW8270D-SIM
Pyrene	1500	66	UG/KG	SW8270D-SIM

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Organics

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Organic Data Qualifiers

U Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.

J Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.

B Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.

E Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.

D Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.

C The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.

P This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.

N This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

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

X Data flagged as rejected by analyst utilizing analytical judgement.

Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

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8270 SIM Semi-Volatile Organics

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Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:
All holding times were met.

B. Sample Analysis:
All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8270D-SIM

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:
All acceptance criteria were met with the exception of:

Note that the Continuing Calibration Verification sample CCV1136644 analyzed on 11/26/12 exceeded the 40% Maximum Difference criteria for Dibenzo(a,h) anthracene at -50.8%. However this CCV was only associated with the two samples which required a dilution for compounds other than Dibenzo(a,h) anthracene. No further action was taken.

B. Blanks:
All acceptance criteria were met.

C. Surrogates:
All acceptance criteria were met with the exception of:

Sample CV0192B-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 46.7 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample CV0699C-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 27.4 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0210A-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 16.9 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0210B-CS was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 41.9 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

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Sample FM0263C-CS-SP was recovered below criteria for the following surrogate: Benzo(e)pyrene-d12 at 37.3 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample CV0043A-CSMSD was recovered below criteria for the following surrogate(s): Benzo(e)pyrene-d12 at 0 % with criteria of (50-140).

Samples coded accordingly.

The following samples had surrogates that were diluted out: CV0699B-CSDL1, FM0210C-CSDL1, FM0263A-CS-SPDL1, FM0263B-CS-SPDL1, FM0263C-CS-SPDL1.

D. Spikes:

1. Laboratory Control Spikes (LCS)
   All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)
   A client requested MS/SD set was analyzed.
   All percent recovery and relative percent difference (RPD) criteria were met with the exception of:

   MS - CV0043A-CSMS was analyzed with the soil samples extracted on 04/26/00. The following analyte(s) were recovered below criteria:2-Methylnaphthalene at 51.2 % with criteria of (54-145), Naphthalene at 35.5 % with criteria of (59-111) and the following analyte(s) were recovered above criteria: Acenaphthylene at 615 % with criteria of (54-115), Anthracene at 988 % with criteria of (40-138), Benzo(a)anthracene at 5113 % with criteria of (53-119), Benzo(a)pyrene at 2414 % with criteria of (20-120), Benzo(b)fluoranthene at 2047 % with criteria of (50-171), Benzo(g,h,i)perylene at 1241 % with criteria of (50-150), Benzo(k)fluoranthene at 2474 % with criteria of (32-158), Chrysene at 3219 % with criteria of (34-140), Dibenzo(a,h)anthracene at 755 % with criteria of (41-114), Fluoranthene at 7383 % with criteria of (55-132), Fluorene at 541 % with criteria of (59-118), Indeno(1,2,3-cd)pyrene at 1415 % with criteria of (19-122), Phenanthrene at 5383 % with criteria of (54-112), Pyrene at 5094 % with criteria of (55-123).

   SD - CV0043A-CSMSD was analyzed with the soil samples extracted on 04/26/00. The following analyte(s) were recovered below criteria:1-Methylnaphthalene at 48.4 % with criteria of (71-132), 2-Methylnaphthalene at 13.3 % with criteria of (54-145), Benzo(b)fluoranthene at 0 % with criteria of (50-171), Fluoranthene at 23.4 % with criteria of (55-132), Naphthalene at 0 % with criteria of (59-111), Phenanthrene at 15.6 % with criteria of (54-112), Pyrene at 27.3 % with criteria of (55-123) and the following analyte(s) were recovered above criteria: Benzo(a)anthracene at 164 % with criteria of (53-119), Benzo(a)pyrene at 141 % with criteria of (20-120), Benzo(k)fluoranthene at 369 % with criteria of (32-158), Dibenzo(a,h)anthracene at 180 % with criteria of (41-114), Indeno(1,2,3-cd)pyrene at 169 % with criteria of (19-122). The following analyte(s) exceeded RPD criteria: Acenaphthylene at 124.1 % with criteria of (30), Anthracene at 148.1 % with criteria of (30), Benzo(a)anthracene at 157.1 % with criteria of (30), Benzo(a)pyrene at 129.9 % with criteria of (30), Benzo(b)fluoranthene at 131.2 % with criteria of (30), Benzo(g,h,i)perylene at 105.4 % with criteria of (30), Benzo(k)fluoranthene at 121.8 % with criteria of (30), Chrysene at 144.3 % with criteria of (30), Dibenzo(a,h)anthracene at 100.5 % with criteria of (30), Fluoranthene at 168.5 % with criteria of (30), Fluorene at 134.1 % with criteria of (30),

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Indeno(1,2,3-cd)pyrene at 115 % with criteria of (30), Phenanthrene at 173.3 % with criteria of (30), Pyrene at 161.8 % with criteria of (30).

Samples coded accordingly.

E. Internal Standards:
All acceptance criteria were met.

F. Samples:
Sample analysis proceeded normally.

Sample CV0699B-CS required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Pyrene. Both full and diluted runs are reported.

Sample FM0210C-CS required a 20X dilution due to high concentration of the following analyte: Fluoranthene. Both full and diluted runs are reported.

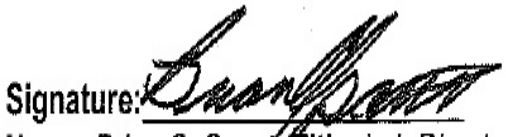
Sample FM0263A-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Sample FM0263B-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Sample FM0263C-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Note that sample FM0126C-GS-SP also had analytes present in the 8270SIM analysis that were above the high calibration of the 8270SIM method. However, the sample was also analyzed using the SW8270 method. The SW8270 method has a higher calibration range than the 8270SIM method, and the analytes that were high in the 8270SIM method were within the calibration range for the SW8270 method. Therefore no dilution was performed on the sample.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



Signature:
Name: Brian C. Spanh Title: Lab Director

SIGNED: DATE: 12/17/2012

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

MANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: CV0041A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0041A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0041B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0041B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0043A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0043B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0043C-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043C-CS Analyte: Benzo(e)pyrene-d12
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: CV0043C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0192A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0192A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0192B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0192B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0362A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0362A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0699A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0699B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699B-CSDL1 Analyte: Benzo(b)fluoranthene

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Reason: Split Peak
Sample: CV0699B-CSDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: CV0699C-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0699C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126A-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0126A-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126B-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(e)pyrene-d12
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: FM0126C-GS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210A-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0210A-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210B-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0210B-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0210C-CSDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0210C-CSDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SPDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263A-CS-SPDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263B-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263B-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263B-CS-SPDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak

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Client: OTIE

Sample: FM0263B-CS-SPDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SPDL1 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0263C-CS-SPDL1 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Acenaphthylene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Anthracene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Benzo(a)anthracene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Benzo(e)pyrene-d12(SURR)
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Benzo(g,h,i)perylene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: SSC1135488 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Chrysene
Reason: Split Peak
Calibration Sample: SSC1135488 Analyte: Dibenzo(a,h)anthracene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Fluoranthene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Indeno(1,2,3-cd)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135488 Analyte: Naphthalene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: SSC1135488 Analyte: Phenanthrene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: SSC1135488 Analyte: Pyrene
Reason: Target peak was not integrated automatically by software generator
Calibration Sample: STD1135465 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135466 Analyte: Benzo(k)fluoranthene

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Client: OTIE

Reason: Split Peak
Calibration Sample: STD1135469 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135472 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135474 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135478 Analyte: Benzo(k)fluoranthene
Reason: Split Peak

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

Signature:
Name: Mark Jacobs Title: Chemist
CHEMIST: DATE: 11/30/2012

Signature:
Name: Brian C. Spaan Title: Lab Director
SECTION LEADER: DATE: 11/30/2012

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Method: 8270 SIM

EPA Sample No	Lab Sample ID
CV0041A-CS	350761601
CV0041B-CS	350761602
CV0043A-CS	350761603
CV0043B-CS	350761604
CV0043C-CS	350761605
CV0192A-CS	350761606
CV0192B-CS	350761607
FM0263A-CS-SP	350761608
FM0263A-CS-SPDL1	350761608DL1
FM0263B-CS-SP	350761609
FM0263B-CS-SPDL1	350761609DL1
FM0263C-CS-SP	350761610
FM0263C-CS-SPDL1	350761610DL1
FM0126A-CS-SP	350761611
FM0126B-CS-SP	350761612
FM0126C-GS-SP	350761613
CV0699A-CS	350761614
CV0699B-CS	350761615
CV0699B-CSDL1	350761615DL1
CV0699C-CS	350761616
FM0210A-CS	350761617
FM0210B-CS	350761618
FM0210C-CS	350761619
FM0210C-CSDL1	350761619DL1
CV0362A-CS	350761620

301112 1330

8270 SIM Sample Data

301112 1330

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0041A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761601 Lab File ID: 616-01.D

Sample wt/vol: 25.14 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 1944

PercentSolids: 79.1 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	48.1		1.4	3.3
91-57-6	2-Methylnaphthalene	53.2		1.3	3.3
90-12-0	1-Methylnaphthalene	44		1.3	3.3
208-96-8	Acenaphthylene	10.4		1.3	3.3
83-32-9	Acenaphthene	7.5		1.3	3.3
86-73-7	Fluorene	7.2		1.3	3.3
85-01-8	Phenanthrene	126		1.3	3.3
120-12-7	Anthracene	21.4		1.3	3.3
206-44-0	Fluoranthene	234		1.3	3.3
129-00-0	Pyrene	186		1.3	3.3
56-55-3	Benzo(a)anthracene	155		1.4	3.3
218-01-9	Chrysene	173		1.3	3.3
205-99-2	Benzo(b)fluoranthene	245		1.9	3.3
207-08-9	Benzo(k)fluoranthene	71.5		2.1	3.3
50-32-8	Benzo(a)pyrene	132		1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	71		3	3.3
53-70-3	Dibenzo(a,h)anthracene	25.1		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	94.6		3.1	3.3

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0041B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761602 Lab File ID: 616-02.D

Sample wt/vol: 25.31 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2008

PercentSolids: 83.7 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	45.1		1.3	3.1
91-57-6	2-Methylnaphthalene	49.6		1.2	3.1
90-12-0	1-Methylnaphthalene	37.9		1.2	3.1
208-96-8	Acenaphthylene	9.5		1.2	3.1
83-32-9	Acenaphthene	5.5		1.2	3.1
86-73-7	Fluorene	6.3		1.2	3.1
85-01-8	Phenanthrene	77.4		1.2	3.1
120-12-7	Anthracene	13.9		1.2	3.1
206-44-0	Fluoranthene	132		1.2	3.1
129-00-0	Pyrene	107		1.2	3.1
56-55-3	Benzo(a)anthracene	100		1.3	3.1
218-01-9	Chrysene	113		1.2	3.1
205-99-2	Benzo(b)fluoranthene	167		1.8	3.1
207-08-9	Benzo(k)fluoranthene	49.4		2	3.1
50-32-8	Benzo(a)pyrene	84		1.7	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	50.8		2.8	3.1
53-70-3	Dibenzo(a,h)anthracene	16.3		2.4	3.1
191-24-2	Benzo(g,h,i)perylene	67.3		2.9	3.1

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761603 Lab File ID: 616-03.D

Sample wt/vol: 25.06 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2031

PercentSolids: 78 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	89.9		1.4	3.4
91-57-6	2-Methylnaphthalene	88.9		1.4	3.4
90-12-0	1-Methylnaphthalene	53.7		1.4	3.4
208-96-8	Acenaphthylene	15.5		1.4	3.4
83-32-9	Acenaphthene	5.9		1.4	3.4
86-73-7	Fluorene	6.4		1.4	3.4
85-01-8	Phenanthrene	102		1.4	3.4
120-12-7	Anthracene	20.1		1.4	3.4
206-44-0	Fluoranthene	170		1.4	3.4
129-00-0	Pyrene	146		1.4	3.4
56-55-3	Benzo(a)anthracene	131		1.4	3.4
218-01-9	Chrysene	140		1.3	3.4
205-99-2	Benzo(b)fluoranthene	232		1.9	3.4
207-08-9	Benzo(k)fluoranthene	78.6		2.1	3.4
50-32-8	Benzo(a)pyrene	121		1.8	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	74.8		3.1	3.4
53-70-3	Dibenzo(a,h)anthracene	26.8		2.7	3.4
191-24-2	Benzo(g,h,i)perylene	95.3		3.2	3.4

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0043B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761604 Lab File ID: 616-04.D

Sample wt/vol: 25.08 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2055

PercentSolids: 75.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	30		1.5	3.5
91-57-6	2-Methylnaphthalene	26.9		1.4	3.5
90-12-0	1-Methylnaphthalene	19.7		1.4	3.5
208-96-8	Acenaphthylene	4.2		1.4	3.5
83-32-9	Acenaphthene	3.5	U	1.4	3.5
86-73-7	Fluorene	3.9		1.4	3.5
85-01-8	Phenanthrene	51		1.4	3.5
120-12-7	Anthracene	7.6		1.4	3.5
206-44-0	Fluoranthene	90.5		1.4	3.5
129-00-0	Pyrene	66.9		1.4	3.5
56-55-3	Benzo(a)anthracene	53.9		1.5	3.5
218-01-9	Chrysene	61.4		1.4	3.5
205-99-2	Benzo(b)fluoranthene	105		2	3.5
207-08-9	Benzo(k)fluoranthene	30.3		2.2	3.5
50-32-8	Benzo(a)pyrene	53.4		1.9	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	30		3.2	3.5
53-70-3	Dibenzo(a,h)anthracene	7.4		2.7	3.5
191-24-2	Benzo(g,h,i)perylene	42.3		3.3	3.5

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.33 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	23.3		1.4	3.4
91-57-6	2-Methylnaphthalene	24.6		1.4	3.4
90-12-0	1-Methylnaphthalene	15.9		1.4	3.4
208-96-8	Acenaphthylene	4.5		1.4	3.4
83-32-9	Acenaphthene	3.4	U	1.4	3.4
86-73-7	Fluorene	3.4	U	1.4	3.4
85-01-8	Phenanthrene	45.5		1.4	3.4
120-12-7	Anthracene	8.4		1.4	3.4
206-44-0	Fluoranthene	77.1		1.4	3.4
129-00-0	Pyrene	65.1		1.4	3.4
56-55-3	Benzo(a)anthracene	61.8		1.4	3.4
218-01-9	Chrysene	63.4		1.3	3.4
205-99-2	Benzo(b)fluoranthene	68.9		2	3.4
207-08-9	Benzo(k)fluoranthene	58.9		2.2	3.4
50-32-8	Benzo(a)pyrene	62.2		1.8	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	44.5		3.1	3.4
53-70-3	Dibenzo(a,h)anthracene	22.1		2.7	3.4
191-24-2	Benzo(g,h,i)perylene	51.5		3.2	3.4

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0192A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761606 Lab File ID: 616-06.D

Sample wt/vol: 25.03 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2118

PercentSolids: 82 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	194		1.4	3.2
91-57-6	2-Methylnaphthalene	349		1.3	3.2
90-12-0	1-Methylnaphthalene	292		1.3	3.2
208-96-8	Acenaphthylene	13.8		1.3	3.2
83-32-9	Acenaphthene	14.4		1.3	3.2
86-73-7	Fluorene	15.4		1.3	3.2
85-01-8	Phenanthrene	215		1.3	3.2
120-12-7	Anthracene	14.9		1.3	3.2
206-44-0	Fluoranthene	108		1.3	3.2
129-00-0	Pyrene	99.8		1.3	3.2
56-55-3	Benzo(a)anthracene	92.4		1.4	3.2
218-01-9	Chrysene	111		1.3	3.2
205-99-2	Benzo(b)fluoranthene	122		1.8	3.2
207-08-9	Benzo(k)fluoranthene	40		2	3.2
50-32-8	Benzo(a)pyrene	66		1.8	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	30.2		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	11.2		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	45		3	3.2

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0192B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761607 Lab File ID: 616-07.D

Sample wt/vol: 25.27 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2142

PercentSolids: 82.4 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	80.6		1.3	3.2
91-57-6	2-Methylnaphthalene	107		1.3	3.2
90-12-0	1-Methylnaphthalene	84.8		1.3	3.2
208-96-8	Acenaphthylene	41.7		1.3	3.2
83-32-9	Acenaphthene	25.4		1.3	3.2
86-73-7	Fluorene	22.8		1.3	3.2
85-01-8	Phenanthrene	238		1.3	3.2
120-12-7	Anthracene	58.7		1.3	3.2
206-44-0	Fluoranthene	296		1.3	3.2
129-00-0	Pyrene	231		1.3	3.2
56-55-3	Benzo(a)anthracene	216		1.3	3.2
218-01-9	Chrysene	213		1.2	3.2
205-99-2	Benzo(b)fluoranthene	364		1.8	3.2
207-08-9	Benzo(k)fluoranthene	120		2	3.2
50-32-8	Benzo(a)pyrene	169		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	95.2		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	39.1		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	125		3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263A-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761608 Lab File ID: 616-08.D

Sample wt/vol: 25.21 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2205

PercentSolids: 79.2 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	62.1		1.4	3.3
91-57-6	2-Methylnaphthalene	44.7		1.3	3.3
90-12-0	1-Methylnaphthalene	37.1		1.3	3.3
208-96-8	Acenaphthylene	21.2		1.3	3.3
83-32-9	Acenaphthene	87.5		1.3	3.3
86-73-7	Fluorene	79.6		1.3	3.3
85-01-8	Phenanthrene	676	E	1.3	3.3
120-12-7	Anthracene	204		1.3	3.3
206-44-0	Fluoranthene	969	E	1.3	3.3
129-00-0	Pyrene	785	E	1.3	3.3
56-55-3	Benzo(a)anthracene	620	E	1.4	3.3
218-01-9	Chrysene	554	E	1.3	3.3
205-99-2	Benzo(b)fluoranthene	900	E	1.9	3.3
207-08-9	Benzo(k)fluoranthene	281		2.1	3.3
50-32-8	Benzo(a)pyrene	534	E	1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	221		3	3.3
53-70-3	Dibenzo(a,h)anthracene	93.2		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	256		3.1	3.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263A-CS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761608DL1 Lab File ID: 61608D20.D

Sample wt/vol: 25.21 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2242

PercentSolids: 79.2 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	66.9		28	66.7
91-57-6	2-Methylnaphthalene	66.7	U	26.6	66.7
90-12-0	1-Methylnaphthalene	66.7	U	26.6	66.7
208-96-8	Acenaphthylene	66.7	U	26.6	66.7
83-32-9	Acenaphthene	102		26.6	66.7
86-73-7	Fluorene	84.5		26.6	66.7
85-01-8	Phenanthrene	818		26.6	66.7
120-12-7	Anthracene	220		26.6	66.7
206-44-0	Fluoranthene	1300		26.6	66.7
129-00-0	Pyrene	928		26.6	66.7
56-55-3	Benzo(a)anthracene	677		28	66.7
218-01-9	Chrysene	672		26	66.7
205-99-2	Benzo(b)fluoranthene	834		38.1	66.7
207-08-9	Benzo(k)fluoranthene	314		42.1	66.7
50-32-8	Benzo(a)pyrene	499		36.1	66.7
193-39-5	Indeno(1,2,3-cd)pyrene	208		60.1	66.7
53-70-3	Dibenzo(a,h)anthracene	66.7	U	52.1	66.7
191-24-2	Benzo(g,h,i)perylene	271		62.1	66.7

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263B-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761609 Lab File ID: 616-09.D

Sample wt/vol: 25.29 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2229

PercentSolids: 82.5 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	53.4		1.3	3.2
91-57-6	2-Methylnaphthalene	57.1		1.3	3.2
90-12-0	1-Methylnaphthalene	48.7		1.3	3.2
208-96-8	Acenaphthylene	14.2		1.3	3.2
83-32-9	Acenaphthene	73.8		1.3	3.2
86-73-7	Fluorene	61.2		1.3	3.2
85-01-8	Phenanthrene	746	E	1.3	3.2
120-12-7	Anthracene	123		1.3	3.2
206-44-0	Fluoranthene	892	E	1.3	3.2
129-00-0	Pyrene	792	E	1.3	3.2
56-55-3	Benzo(a)anthracene	536	E	1.3	3.2
218-01-9	Chrysene	550	E	1.2	3.2
205-99-2	Benzo(b)fluoranthene	652	E	1.8	3.2
207-08-9	Benzo(k)fluoranthene	267		2	3.2
50-32-8	Benzo(a)pyrene	408		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	175		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	68.3		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	208		3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263B-CS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761609DL1 Lab File ID: 61609D20.D

Sample wt/vol: 25.29 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2305

PercentSolids: 82.5 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	63.8	U	26.8	63.8
91-57-6	2-Methylnaphthalene	63.8	U	25.5	63.8
90-12-0	1-Methylnaphthalene	63.8	U	25.5	63.8
208-96-8	Acenaphthylene	63.8	U	25.5	63.8
83-32-9	Acenaphthene	88.9		25.5	63.8
86-73-7	Fluorene	71		25.5	63.8
85-01-8	Phenanthrene	1060		25.5	63.8
120-12-7	Anthracene	179		25.5	63.8
206-44-0	Fluoranthene	1240		25.5	63.8
129-00-0	Pyrene	1060		25.5	63.8
56-55-3	Benzo(a)anthracene	487		26.8	63.8
218-01-9	Chrysene	551		24.9	63.8
205-99-2	Benzo(b)fluoranthene	624		36.4	63.8
207-08-9	Benzo(k)fluoranthene	246		40.3	63.8
50-32-8	Benzo(a)pyrene	399		34.5	63.8
193-39-5	Indeno(1,2,3-cd)pyrene	172		57.5	63.8
53-70-3	Dibenzo(a,h)anthracene	63.8	U	49.8	63.8
191-24-2	Benzo(g,h,i)perylene	226		59.4	63.8

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0263C-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761610 Lab File ID: 616-10.D

Sample wt/vol: 25.79 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2253

PercentSolids: 77.9 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	148		1.4	3.3
91-57-6	2-Methylnaphthalene	78.2		1.3	3.3
90-12-0	1-Methylnaphthalene	57		1.3	3.3
208-96-8	Acenaphthylene	23.2		1.3	3.3
83-32-9	Acenaphthene	176		1.3	3.3
86-73-7	Fluorene	156		1.3	3.3
85-01-8	Phenanthrene	1210	E	1.3	3.3
120-12-7	Anthracene	281		1.3	3.3
206-44-0	Fluoranthene	1420	E	1.3	3.3
129-00-0	Pyrene	1060	E	1.3	3.3
56-55-3	Benzo(a)anthracene	814	E	1.4	3.3
218-01-9	Chrysene	780	E	1.3	3.3
205-99-2	Benzo(b)fluoranthene	1190	E	1.9	3.3
207-08-9	Benzo(k)fluoranthene	455		2.1	3.3
50-32-8	Benzo(a)pyrene	615	E	1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	276		3	3.3
53-70-3	Dibenzo(a,h)anthracene	115		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	362		3.1	3.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0263C-CS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761610DL1 Lab File ID: 61610D20.D

Sample wt/vol: 25.79 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2329

PercentSolids: 77.9 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	156		27.9	66.3
91-57-6	2-Methylnaphthalene	76.1		26.5	66.3
90-12-0	1-Methylnaphthalene	66.3	U	26.5	66.3
208-96-8	Acenaphthylene	66.3	U	26.5	66.3
83-32-9	Acenaphthene	224		26.5	66.3
86-73-7	Fluorene	166		26.5	66.3
85-01-8	Phenanthrene	1990		26.5	66.3
120-12-7	Anthracene	386		26.5	66.3
206-44-0	Fluoranthene	2120		26.5	66.3
129-00-0	Pyrene	1500		26.5	66.3
56-55-3	Benzo(a)anthracene	951		27.9	66.3
218-01-9	Chrysene	943		25.9	66.3
205-99-2	Benzo(b)fluoranthene	1280		37.8	66.3
207-08-9	Benzo(k)fluoranthene	465		41.8	66.3
50-32-8	Benzo(a)pyrene	722		35.8	66.3
193-39-5	Indeno(1,2,3-cd)pyrene	286		59.7	66.3
53-70-3	Dibenzo(a,h)anthracene	66.3	U	51.8	66.3
191-24-2	Benzo(g,h,i)perylene	357		61.7	66.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126A-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761611 Lab File ID: 616-11.D

Sample wt/vol: 25.77 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2316

PercentSolids: 81.7 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	31.7		1.3	3.2
91-57-6	2-Methylnaphthalene	22.2		1.3	3.2
90-12-0	1-Methylnaphthalene	15.3		1.3	3.2
208-96-8	Acenaphthylene	4.1		1.3	3.2
83-32-9	Acenaphthene	7		1.3	3.2
86-73-7	Fluorene	6.4		1.3	3.2
85-01-8	Phenanthrene	76		1.3	3.2
120-12-7	Anthracene	13.7		1.3	3.2
206-44-0	Fluoranthene	109		1.3	3.2
129-00-0	Pyrene	84.8		1.3	3.2
56-55-3	Benzo(a)anthracene	62.9		1.3	3.2
218-01-9	Chrysene	65.5		1.2	3.2
205-99-2	Benzo(b)fluoranthene	93.7		1.8	3.2
207-08-9	Benzo(k)fluoranthene	30.6		2	3.2
50-32-8	Benzo(a)pyrene	52.4		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	24.6		2.8	3.2
53-70-3	Dibenzo(a,h)anthracene	4		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	28		2.9	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126B-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761612 Lab File ID: 616-12.D

Sample wt/vol: 25.61 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/21/12 Time: 2340

PercentSolids: 79.4 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	47.4		1.4	3.3
91-57-6	2-Methylnaphthalene	52.8		1.3	3.3
90-12-0	1-Methylnaphthalene	34.1		1.3	3.3
208-96-8	Acenaphthylene	3.7		1.3	3.3
83-32-9	Acenaphthene	3.3		1.3	3.3
86-73-7	Fluorene	3.7		1.3	3.3
85-01-8	Phenanthrene	69.5		1.3	3.3
120-12-7	Anthracene	8.2		1.3	3.3
206-44-0	Fluoranthene	76.6		1.3	3.3
129-00-0	Pyrene	59.1		1.3	3.3
56-55-3	Benzo(a)anthracene	50.1		1.4	3.3
218-01-9	Chrysene	61.2		1.3	3.3
205-99-2	Benzo(b)fluoranthene	83.6		1.9	3.3
207-08-9	Benzo(k)fluoranthene	28		2.1	3.3
50-32-8	Benzo(a)pyrene	41.6		1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	20.2		3	3.3
53-70-3	Dibenzo(a,h)anthracene	3.3	U	2.6	3.3
191-24-2	Benzo(g,h,i)perylene	23.8		3	3.3

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.6 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	158		1.5	3.6
91-57-6	2-Methylnaphthalene	89.5		1.4	3.6
90-12-0	1-Methylnaphthalene	52.6		1.4	3.6
208-96-8	Acenaphthylene	11.3		1.4	3.6
83-32-9	Acenaphthene	120		1.4	3.6
86-73-7	Fluorene	110		1.4	3.6
85-01-8	Phenanthrene	735	E	1.4	3.6
120-12-7	Anthracene	214		1.4	3.6
206-44-0	Fluoranthene	841	E	1.4	3.6
129-00-0	Pyrene	636	E	1.4	3.6
56-55-3	Benzo(a)anthracene	584	E	1.5	3.6
218-01-9	Chrysene	579	E	1.4	3.6
205-99-2	Benzo(b)fluoranthene	487		2.1	3.6
207-08-9	Benzo(k)fluoranthene	543		2.3	3.6
50-32-8	Benzo(a)pyrene	510		2	3.6
193-39-5	Indeno(1,2,3-cd)pyrene	288		3.3	3.6
53-70-3	Dibenzo(a,h)anthracene	175		2.8	3.6
191-24-2	Benzo(g,h,i)perylene	304		3.4	3.6

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0699A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761614 Lab File ID: 616-14.D

Sample wt/vol: 25.02 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0004

PercentSolids: 83.2 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	44.7		1.3	3.2
91-57-6	2-Methylnaphthalene	47.2		1.3	3.2
90-12-0	1-Methylnaphthalene	33.4		1.3	3.2
208-96-8	Acenaphthylene	8.7		1.3	3.2
83-32-9	Acenaphthene	7.3		1.3	3.2
86-73-7	Fluorene	7.9		1.3	3.2
85-01-8	Phenanthrene	106		1.3	3.2
120-12-7	Anthracene	19.4		1.3	3.2
206-44-0	Fluoranthene	143		1.3	3.2
129-00-0	Pyrene	119		1.3	3.2
56-55-3	Benzo(a)anthracene	132		1.3	3.2
218-01-9	Chrysene	129		1.2	3.2
205-99-2	Benzo(b)fluoranthene	204		1.8	3.2
207-08-9	Benzo(k)fluoranthene	52.1		2	3.2
50-32-8	Benzo(a)pyrene	117		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	51		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	16.4		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	60.4		3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0699B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761615 Lab File ID: 616-15.D

Sample wt/vol: 25.01 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0027

PercentSolids: 80.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	36.3		1.4	3.3
91-57-6	2-Methylnaphthalene	32.1		1.3	3.3
90-12-0	1-Methylnaphthalene	24.9		1.3	3.3
208-96-8	Acenaphthylene	8.2		1.3	3.3
83-32-9	Acenaphthene	24.7		1.3	3.3
86-73-7	Fluorene	17.2		1.3	3.3
85-01-8	Phenanthrene	328		1.3	3.3
120-12-7	Anthracene	98.2		1.3	3.3
206-44-0	Fluoranthene	884	E	1.3	3.3
129-00-0	Pyrene	855	E	1.3	3.3
56-55-3	Benzo(a)anthracene	633	E	1.4	3.3
218-01-9	Chrysene	534	E	1.3	3.3
205-99-2	Benzo(b)fluoranthene	874	E	1.9	3.3
207-08-9	Benzo(k)fluoranthene	278		2.1	3.3
50-32-8	Benzo(a)pyrene	466		1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	171		3	3.3
53-70-3	Dibenzo(a,h)anthracene	73.6		2.6	3.3
191-24-2	Benzo(g,h,i)perylene	186		3.1	3.3

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0699B-CSDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761615DL1 Lab File ID: 61615D20.D

Sample wt/vol: 25.01 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 2352

PercentSolids: 80.8 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	65.9	U	27.7	65.9
91-57-6	2-Methylnaphthalene	65.9	U	26.3	65.9
90-12-0	1-Methylnaphthalene	65.9	U	26.3	65.9
208-96-8	Acenaphthylene	65.9	U	26.3	65.9
83-32-9	Acenaphthene	65.9	U	26.3	65.9
86-73-7	Fluorene	65.9	U	26.3	65.9
85-01-8	Phenanthrene	440		26.3	65.9
120-12-7	Anthracene	131		26.3	65.9
206-44-0	Fluoranthene	1270		26.3	65.9
129-00-0	Pyrene	1120		26.3	65.9
56-55-3	Benzo(a)anthracene	667		27.7	65.9
218-01-9	Chrysene	623		25.7	65.9
205-99-2	Benzo(b)fluoranthene	765		37.6	65.9
207-08-9	Benzo(k)fluoranthene	341		41.6	65.9
50-32-8	Benzo(a)pyrene	485		35.6	65.9
193-39-5	Indeno(1,2,3-cd)pyrene	171		59.4	65.9
53-70-3	Dibenzo(a,h)anthracene	65.9	U	51.5	65.9
191-24-2	Benzo(g,h,i)perylene	210		61.4	65.9

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0699C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761616 Lab File ID: 616-16.D

Sample wt/vol: 25.3 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0051

PercentSolids: 82 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	48.6		1.3	3.2
91-57-6	2-Methylnaphthalene	45.6		1.3	3.2
90-12-0	1-Methylnaphthalene	33.4		1.3	3.2
208-96-8	Acenaphthylene	6.2		1.3	3.2
83-32-9	Acenaphthene	12		1.3	3.2
86-73-7	Fluorene	12.6		1.3	3.2
85-01-8	Phenanthrene	113		1.3	3.2
120-12-7	Anthracene	25.2		1.3	3.2
206-44-0	Fluoranthene	148		1.3	3.2
129-00-0	Pyrene	112		1.3	3.2
56-55-3	Benzo(a)anthracene	109		1.3	3.2
218-01-9	Chrysene	106		1.2	3.2
205-99-2	Benzo(b)fluoranthene	168		1.8	3.2
207-08-9	Benzo(k)fluoranthene	58.8		2	3.2
50-32-8	Benzo(a)pyrene	92.7		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	37.8		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	12		2.5	3.2
191-24-2	Benzo(g,h,i)perylene	50.6		3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761617 Lab File ID: 616-17.D

Sample wt/vol: 25.2 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0114

PercentSolids: 82 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	21.6		1.4	3.2
91-57-6	2-Methylnaphthalene	16.2		1.3	3.2
90-12-0	1-Methylnaphthalene	11.8		1.3	3.2
208-96-8	Acenaphthylene	3.2	U	1.3	3.2
83-32-9	Acenaphthene	3.2	U	1.3	3.2
86-73-7	Fluorene	3.2	U	1.3	3.2
85-01-8	Phenanthrene	24.3		1.3	3.2
120-12-7	Anthracene	3.5		1.3	3.2
206-44-0	Fluoranthene	33		1.3	3.2
129-00-0	Pyrene	26.6		1.3	3.2
56-55-3	Benzo(a)anthracene	24		1.4	3.2
218-01-9	Chrysene	26.7		1.2	3.2
205-99-2	Benzo(b)fluoranthene	33		1.8	3.2
207-08-9	Benzo(k)fluoranthene	11.9		2	3.2
50-32-8	Benzo(a)pyrene	19.3		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	8.4		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	3.2	U	2.5	3.2
191-24-2	Benzo(g,h,i)perylene	10.6		3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761618 Lab File ID: 616-18.D

Sample wt/vol: 25.08 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0138

PercentSolids: 82.7 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	42.6		1.4	3.2
91-57-6	2-Methylnaphthalene	41.8		1.3	3.2
90-12-0	1-Methylnaphthalene	33.1		1.3	3.2
208-96-8	Acenaphthylene	4.9		1.3	3.2
83-32-9	Acenaphthene	5.6		1.3	3.2
86-73-7	Fluorene	6.3		1.3	3.2
85-01-8	Phenanthrene	85.8		1.3	3.2
120-12-7	Anthracene	10.3		1.3	3.2
206-44-0	Fluoranthene	85.9		1.3	3.2
129-00-0	Pyrene	76		1.3	3.2
56-55-3	Benzo(a)anthracene	56.2		1.4	3.2
218-01-9	Chrysene	67.4		1.2	3.2
205-99-2	Benzo(b)fluoranthene	74.8		1.8	3.2
207-08-9	Benzo(k)fluoranthene	25		2	3.2
50-32-8	Benzo(a)pyrene	39.6		1.7	3.2
193-39-5	Indeno(1,2,3-cd)pyrene	16		2.9	3.2
53-70-3	Dibenzo(a,h)anthracene	3.2	U	2.5	3.2
191-24-2	Benzo(g,h,i)perylene	22.1		3	3.2

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761619 Lab File ID: 616-19.D

Sample wt/vol: 25.06 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0201

PercentSolids: 84.5 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	48.8		1.3	3.1
91-57-6	2-Methylnaphthalene	49.8		1.2	3.1
90-12-0	1-Methylnaphthalene	43.7		1.2	3.1
208-96-8	Acenaphthylene	12.2		1.2	3.1
83-32-9	Acenaphthene	31.8		1.2	3.1
86-73-7	Fluorene	23.9		1.2	3.1
85-01-8	Phenanthrene	382		1.2	3.1
120-12-7	Anthracene	63.4		1.2	3.1
206-44-0	Fluoranthene	577	E	1.2	3.1
129-00-0	Pyrene	440		1.2	3.1
56-55-3	Benzo(a)anthracene	290		1.3	3.1
218-01-9	Chrysene	280		1.2	3.1
205-99-2	Benzo(b)fluoranthene	403		1.8	3.1
207-08-9	Benzo(k)fluoranthene	142		2	3.1
50-32-8	Benzo(a)pyrene	196		1.7	3.1
193-39-5	Indeno(1,2,3-cd)pyrene	77.2		2.8	3.1
53-70-3	Dibenzo(a,h)anthracene	27.9		2.4	3.1
191-24-2	Benzo(g,h,i)perylene	96.8		2.9	3.1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0210C-CSDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761619DL1 Lab File ID: 61619D20.D

Sample wt/vol: 25.06 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/27/12 Time: 0016

PercentSolids: 84.5 decanted : Dilution Factor: 20

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	62.9	U	26.4	62.9
91-57-6	2-Methylnaphthalene	62.9	U	25.1	62.9
90-12-0	1-Methylnaphthalene	62.9	U	25.1	62.9
208-96-8	Acenaphthylene	62.9	U	25.1	62.9
83-32-9	Acenaphthene	62.9	U	25.1	62.9
86-73-7	Fluorene	62.9	U	25.1	62.9
85-01-8	Phenanthrene	455		25.1	62.9
120-12-7	Anthracene	73.4		25.1	62.9
206-44-0	Fluoranthene	658		25.1	62.9
129-00-0	Pyrene	493		25.1	62.9
56-55-3	Benzo(a)anthracene	250		26.4	62.9
218-01-9	Chrysene	275		24.6	62.9
205-99-2	Benzo(b)fluoranthene	261		35.9	62.9
207-08-9	Benzo(k)fluoranthene	131		39.7	62.9
50-32-8	Benzo(a)pyrene	183		34	62.9
193-39-5	Indeno(1,2,3-cd)pyrene	83.1		56.7	62.9
53-70-3	Dibenzo(a,h)anthracene	62.9	U	49.1	62.9
191-24-2	Benzo(g,h,i)perylene	103		58.6	62.9

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0362A-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761620 Lab File ID: 616-20.D

Sample wt/vol: 25.08 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/22/12 Time: 0225

PercentSolids: 78.9 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	43.7		1.4	3.4
91-57-6	2-Methylnaphthalene	45.9		1.3	3.4
90-12-0	1-Methylnaphthalene	38.8		1.3	3.4
208-96-8	Acenaphthylene	28.7		1.3	3.4
83-32-9	Acenaphthene	19.9		1.3	3.4
86-73-7	Fluorene	16.9		1.3	3.4
85-01-8	Phenanthrene	223		1.3	3.4
120-12-7	Anthracene	51.7		1.3	3.4
206-44-0	Fluoranthene	400		1.3	3.4
129-00-0	Pyrene	326		1.3	3.4
56-55-3	Benzo(a)anthracene	354		1.4	3.4
218-01-9	Chrysene	293		1.3	3.4
205-99-2	Benzo(b)fluoranthene	386		1.9	3.4
207-08-9	Benzo(k)fluoranthene	154		2.1	3.4
50-32-8	Benzo(a)pyrene	228		1.8	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	86.8		3	3.4
53-70-3	Dibenzo(a,h)anthracene	35		2.6	3.4
191-24-2	Benzo(g,h,i)perylene	109		3.1	3.4

8270 SIM QC Summary

301112 1330

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 154206MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154206MB Lab File ID: 11607MB.d

Sample wt/vol: 20.19 Units: G Date Received: 11/20/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/28/12 Time: 1754

PercentSolids: 100 decanted : ( ) Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270 SIM

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
91-20-3	Naphthalene	3.3	U	1.4	3.3
91-57-6	2-Methylnaphthalene	3.3	U	1.3	3.3
90-12-0	1-Methylnaphthalene	3.3	U	1.3	3.3
208-96-8	Acenaphthylene	3.3	U	1.3	3.3
83-32-9	Acenaphthene	3.3	U	1.3	3.3
86-73-7	Fluorene	3.3	U	1.3	3.3
85-01-8	Phenanthrene	3.3	U	1.3	3.3
120-12-7	Anthracene	3.3	U	1.3	3.3
206-44-0	Fluoranthene	3.3	U	1.3	3.3
129-00-0	Pyrene	3.3	U	1.3	3.3
56-55-3	Benzo(a)anthracene	3.3	U	1.4	3.3
218-01-9	Chrysene	3.3	U	1.3	3.3
205-99-2	Benzo(b)fluoranthene	3.3	U	1.9	3.3
207-08-9	Benzo(k)fluoranthene	3.3	U	2.1	3.3
50-32-8	Benzo(a)pyrene	3.3	U	1.8	3.3
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U	3	3.3
53-70-3	Dibenzo(a,h)anthracene	3.3	U	2.6	3.3
191-24-2	Benzo(g,h,i)perylene	3.3	U	3.1	3.3

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SEMI-VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 154206MB

Lab Name: Spectrum Analytical, Inc Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID: 11607MB.d Lab Sample ID: 154206MB

Instrument ID: SMSD04 Date Extracted: 11/20/12

Matrix: SOIL Date Analyzed: 11/28/12

Level:(low/med) LOW Time Analyzed: 1754

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CV0041A-CS	350761601	616-01.D	11/21/12	1944
2	CV0041B-CS	350761602	616-02.D	11/21/12	2008
3	CV0043A-CS	350761603	616-03.D	11/21/12	2031
4	CV0043B-CS	350761604	616-04.D	11/21/12	2055
5	CV0192A-CS	350761606	616-06.D	11/21/12	2118
6	CV0192B-CS	350761607	616-07.D	11/21/12	2142
7	FM0263A-CS-SP	350761608	616-08.D	11/21/12	2205
8	FM0263B-CS-SP	350761609	616-09.D	11/21/12	2229
9	FM0263C-CS-SP	350761610	616-10.D	11/21/12	2253
10	FM0126A-CS-SP	350761611	616-11.D	11/21/12	2316
11	FM0126B-CS-SP	350761612	616-12.D	11/21/12	2340
12	CV0699A-CS	350761614	616-14.D	11/22/12	0004
13	CV0699B-CS	350761615	616-15.D	11/22/12	0027
14	CV0699C-CS	350761616	616-16.D	11/22/12	0051
15	FM0210A-CS	350761617	616-17.D	11/22/12	0114
16	FM0210B-CS	350761618	616-18.D	11/22/12	0138
17	FM0210C-CS	350761619	616-19.D	11/22/12	0201
18	CV0362A-CS	350761620	616-20.D	11/22/12	0225
19	CV0043C-CS	350761605	616-05.d	11/26/12	1928
20	FM0126C-GS-SP	350761613	616-13.d	11/26/12	1948
21	FM0263A-CS-SPDL1	350761608DL1	61608D20.D	11/26/12	2242
22	FM0263B-CS-SPDL1	350761609DL1	61609D20.D	11/26/12	2305
23	FM0263C-CS-SPDL1	350761610DL1	61610D20.D	11/26/12	2329
24	CV0699B-CSDL1	350761615DL1	61615D20.D	11/26/12	2352
25	FM0210C-CSDL1	350761619DL1	61619D20.D	11/27/12	0016
26	154207LCS	154207LCS	11607LCS.d	11/28/12	1815

COMMENTS:

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2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 3507616

Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
154206MB	100.0						0
154207LCS	111.0						0
CV0041A-CS	66.1						0
CV0041B-CS	58.9						0
CV0043A-CS	66.8						0
CV0043B-CS	61.7						0
CV0043C-CS	61.2						0
CV0192A-CS	50.0						0
CV0192B-CS	46.7 *						1
CV0362A-CS	54.5						0
CV0699A-CS	57.1						0
CV0699B-CS	56.7						0
CV0699B-CSDL1	0.0 D						0
CV0699C-CS	27.4 *						1
FM0126A-CS-SP	53.2						0
FM0126B-CS-SP	56.1						0
FM0126C-GS-SP	57.0						0
FM0210A-CS	16.9 *						1
FM0210B-CS	41.9 *						1
FM0210C-CS	71.2						0
FM0210C-CSDL1	0.0 D						0
FM0263A-CS-SP	58.4						0
FM0263A-CS-SPDL1	0.0 D						0
FM0263B-CS-SP	60.4						0

Control Limits

S1 = Benzo(e)pyrene-d12 50 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

301112 1330

2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 3507616

Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
FM0263B-CS-SPDL1	0.0 D						0
FM0263C-CS-SP	37.3 *						1
FM0263C-CS-SPDL1	0.0 D						0

Control Limits

S1 = Benzo(e)pyrene-d12 50 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

301112 1330

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP1.D DFTPP Injection Date: 11/20/12

Instrument ID: SMSD03 DFTPP Injection Time: 1650

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	25.6	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	31.9	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	43.8	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.9	
275	10.0 - 60.0% of mass 198	25.4	
365	Greater than 1.0% of mass 198	2.6	
441	0.0 - 24.0% of mass 442	13.6	(14.06)2
442	Greater than 50.0% of mass 198	96.5	
443	15.0 - 24.0% of mass 442	19.1	(19.83)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1135485	47785	SSCAL4.D	11/20/12	1727
2	STD1135483	47782	SSCAL7.D	11/20/12	1752
3	STD1135480	47783	SSCAL6.D	11/20/12	1815
4	STD1135477	47784	SSCAL5.D	11/20/12	1839
5	STD1135471	47786	SSCAL3.D	11/20/12	1902
6	STD1135468	47787	SSCAL2.D	11/20/12	1926
7	STD1135465	47788	SSCAL1.D	11/20/12	1950
8	SSC1135487	47789	SSSEC.D	11/20/12	2013

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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.D DFTPP Injection Date: 11/14/12

Instrument ID: SMSD04 DFTPP Injection Time: 1935

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	39.3	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	50.1	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	47.4	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	7	
275	10.0 - 60.0% of mass 198	25.5	
365	Greater than 1.0% of mass 198	3.5	
441	0.0 - 24.0% of mass 442	13.5	(16.9)2
442	Greater than 50.0% of mass 198	79.8	
443	15.0 - 24.0% of mass 442	16.1	(20.21)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1135484	47782	SSCAL7.d	11/14/12	1953
2	STD1135481	47783	SSCAL6.d	11/14/12	2014
3	STD1135478	47784	SSCAL5.d	11/14/12	2035
4	STD1135474	47785	SSCAL4.d	11/14/12	2056
5	STD1135472	47786	SSCAL3.d	11/14/12	2117
6	STD1135469	47787	SSCAL2.d	11/14/12	2138
7	STD1135466	47788	SSCAL1.d	11/14/12	2158
8	SSC1135488	47789	SSSEC.d	11/14/12	2219

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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.D DFTPP Injection Date: 11/26/12

Instrument ID: SMSD03 DFTPP Injection Time: 1756

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	27.1	
68	Less than 2.0% of mass 69	0.1	(0.32)1
69	Mass 69 relative abundance	34	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	45.2	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.9	
275	10.0 - 60.0% of mass 198	24.9	
365	Greater than 1.0% of mass 198	2.4	
441	0.0 - 24.0% of mass 442	12.6	(14.34)2
442	Greater than 50.0% of mass 198	87.9	
443	15.0 - 24.0% of mass 442	17.3	(19.73)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1136644	47785	SSCCV1.D	11/26/12	1816
2	FM0263A-CS-SPDL1	350761608	61608D20.D	11/26/12	2242
3	FM0263B-CS-SPDL1	350761609	61609D20.D	11/26/12	2305
4	FM0263C-CS-SPDL1	350761610	61610D20.D	11/26/12	2329
5	CV0699B-CSDL1	350761615	61615D20.D	11/26/12	2352
6	FM0210C-CSDL1	350761619	61619D20.D	11/27/12	0016

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.d DFTPP Injection Date: 11/26/12

Instrument ID: SMSD04 DFTPP Injection Time: 1626

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	41.9	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	53.2	
70	Less than 2.0% of mass 69	0.3	(0.55)1
127	10.0 - 80.0% of mass 198	47.4	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	7	
275	10.0 - 60.0% of mass 198	24.3	
365	Greater than 1.0% of mass 198	3.5	
441	0.0 - 24.0% of mass 442	13.7	(17.16)2
442	Greater than 50.0% of mass 198	80	
443	15.0 - 24.0% of mass 442	15.7	(19.63)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1136643	47785	SSCAL4.d	11/26/12	1644
2	CV0043C-CS	350761605	616-05.d	11/26/12	1928
3	FM0126C-GS-SP	350761613	616-13.d	11/26/12	1948

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: 112812DFTPP1.d DFTPP Injection Date: 11/28/12

Instrument ID: SMSD04 DFTPP Injection Time: 1454

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	42	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	53.8	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	49.4	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.7	
275	10.0 - 60.0% of mass 198	25.1	
365	Greater than 1.0% of mass 198	3.1	
441	0.0 - 24.0% of mass 442	13.6	(17.5)2
442	Greater than 50.0% of mass 198	77.5	
443	15.0 - 24.0% of mass 442	14.8	(19.11)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1137596	47785	SSCCV1.d	11/28/12	1713
2	154206MB	154206MB	11607MB.d	11/28/12	1754
3	154207LCS	154207LCS	11607LCS.d	11/28/12	1815

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.D DFTPP Injection Date: 11/21/12

Instrument ID: SMSD03 DFTPP Injection Time: 1818

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	27.8	
68	Less than 2.0% of mass 69	0.5	(1.42)1
69	Mass 69 relative abundance	35.2	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	45.8	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.8	
275	10.0 - 60.0% of mass 198	24.5	
365	Greater than 1.0% of mass 198	2.6	
441	0.0 - 24.0% of mass 442	12.2	(14.19)2
442	Greater than 50.0% of mass 198	86.2	
443	15.0 - 24.0% of mass 442	17.3	(20.03)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1137703	47785	SSCCV2.D	11/21/12	1901
2	CV0041A-CS	350761601	616-01.D	11/21/12	1944
3	CV0041B-CS	350761602	616-02.D	11/21/12	2008
4	CV0043A-CS	350761603	616-03.D	11/21/12	2031
5	CV0043B-CS	350761604	616-04.D	11/21/12	2055
6	CV0192A-CS	350761606	616-06.D	11/21/12	2118
7	CV0192B-CS	350761607	616-07.D	11/21/12	2142
8	FM0263A-CS-SP	350761608	616-08.D	11/21/12	2205
9	FM0263B-CS-SP	350761609	616-09.D	11/21/12	2229
10	FM0263C-CS-SP	350761610	616-10.D	11/21/12	2253
11	FM0126A-CS-SP	350761611	616-11.D	11/21/12	2316
12	FM0126B-CS-SP	350761612	616-12.D	11/21/12	2340
13	CV0699A-CS	350761614	616-14.D	11/22/12	0004
14	CV0699B-CS	350761615	616-15.D	11/22/12	0027
15	CV0699C-CS	350761616	616-16.D	11/22/12	0051
16	FM0210A-CS	350761617	616-17.D	11/22/12	0114
17	FM0210B-CS	350761618	616-18.D	11/22/12	0138
18	FM0210C-CS	350761619	616-19.D	11/22/12	0201
19	CV0362A-CS	350761620	616-20.D	11/22/12	0225

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID (Standard): SSCAL4.D Date Analyzed: 11/20/2012

Instrument ID: SMSD03 Time Analyzed: 17:27

GC Column: HPMS-5 ID: 0.25 (mm)

		IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT
	MID CAL STD	35031	9.99				
	UPPER LIMIT	70062	10.49				
	LOWER LIMIT	17515.5	9.49				
	EPA SAMPLE NO.						
1	CV0041A-CS	41389	10.00				
2	CV0041B-CS	44422	10.00				
3	CV0043A-CS	38222	10.00				
4	CV0043B-CS	42471	10.00				
5	CV0192A-CS	45961	10.00				
6	CV0192B-CS	44089	10.00				
7	FM0263A-CS-SP	39464	10.00				
8	FM0263B-CS-SP	39470	10.00				
9	FM0263C-CS-SP	37710	10.00				
10	FM0126A-CS-SP	40128	10.00				
11	FM0126B-CS-SP	33654	10.00				
12	CV0699A-CS	37744	10.00				
13	CV0699B-CS	38428	10.00				
14	CV0699C-CS	32896	10.00				
15	FM0210A-CS	39398	10.00				
16	FM0210B-CS	35762	10.00				
17	FM0210C-CS	37018	10.00				
18	CV0362A-CS	33449	10.00				
19	FM0263A-CS-SPDL1	44627	10.00				
20	FM0263B-CS-SPDL1	42128	10.00				
21	FM0263C-CS-SPDL1	37161	10.00				
22	CV0699B-CSDL1	39134	10.00				
23	FM0210C-CSDL1	43605	10.00				

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID (Standard): SSCAL4.D Date Analyzed: 11/20/2012

Instrument ID: SMSD03 Time Analyzed: 17:27

GC Column: HPMS-5 ID: 0.25 (mm)

	IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
MID CAL STD	35031		9.99						
UPPER LIMIT	70062		10.49						
LOWER LIMIT	17515.5		9.49						
EPA SAMPLE NO.									

IS1 = Fluoranthene-d10

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID (Standard): SSCAL4.d Date Analyzed: 11/14/2012

Instrument ID: SMSD04 Time Analyzed: 20:56

GC Column: HPMS-5 ID: 0.25 (mm)

		IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
	MID CAL STD	9469		9.78						
	UPPER LIMIT	18938		10.28						
	LOWER LIMIT	4734.5		9.28						
	EPA SAMPLE NO.									
1	CV0043C-CS	8676		9.76						
2	FM0126C-GS-SP	7371		9.76						
3	154206MB	6767		9.76						
4	154207LCS	6151		9.76						

IS1 = Fluoranthene-d10

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

8

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 11/14/12

Instrument ID: SMSD04

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION
S1 : 12.41 S2 : S3 : S4 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
1	DFTPP2	47137	DFTPP2.D	11/14/12	1935				
2	STD1135484	47782	SSCAL7.d	11/14/12	1953	12.42			
3	STD1135481	47783	SSCAL6.d	11/14/12	2014	12.42			
4	STD1135478	47784	SSCAL5.d	11/14/12	2035	12.41			
5	STD1135474	47785	SSCAL4.d	11/14/12	2056	12.41			
6	STD1135472	47786	SSCAL3.d	11/14/12	2117	12.41			
7	STD1135469	47787	SSCAL2.d	11/14/12	2138	12.41			
8	STD1135466	47788	SSCAL1.d	11/14/12	2158	12.41			
9	SSC1135488	47789	SSSEC.d	11/14/12	2219	12.41			
10	DFTPP2	47137	DFTPP2.d	11/26/12	1626				
11	CCV1136643	47785	SSCAL4.d	11/26/12	1644	12.39			
12	CV0043C-CS	350761605	616-05.d	11/26/12	1928	12.38			
13	FM0126C-GS-SP	350761613	616-13.d	11/26/12	1948	12.38			
14	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/26/12	2049				
15	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/26/12	2109				
16	112812DFTPP1	47137	112812DFTPP1.d	11/28/12	1454				
17	CCV1137596	47785	SSCCV1.d	11/28/12	1713	12.39			
18	154206MB	154206MB	11607MB.d	11/28/12	1754	12.39			
19	154207LCS	154207LCS	11607LCS.d	11/28/12	1815	12.39			

QC LIMITS

S1 = Benzo(e)pyrene-d12 (+/- 0.59 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

301112 1330

FORM VIII

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 11/20/12

Instrument ID: SMSD03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION
S1 : 12.62 S2 : S3 : S4 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
1	DFTPP1	47701	DFTPP1.D	11/20/12	1650				
2	STD1135485	47785	SSCAL4.D	11/20/12	1727	12.62			
3	STD1135483	47782	SSCAL7.D	11/20/12	1752	12.62			
4	STD1135480	47783	SSCAL6.D	11/20/12	1815	12.62			
5	STD1135477	47784	SSCAL5.D	11/20/12	1839	12.62			
6	STD1135471	47786	SSCAL3.D	11/20/12	1902	12.62			
7	STD1135468	47787	SSCAL2.D	11/20/12	1926	12.62			
8	STD1135465	47788	SSCAL1.D	11/20/12	1950	12.62			
9	SSC1135487	47789	SSSEC.D	11/20/12	2013	12.62			
10	DFTPP1	47701	DFTPP2.D	11/21/12	1818				
11	CCV1137703	47785	SSCCV2.D	11/21/12	1901	12.62			
12	CV0041A-CS	350761601	616-01.D	11/21/12	1944	12.62			
13	CV0041B-CS	350761602	616-02.D	11/21/12	2008	12.62			
14	CV0043A-CS	350761603	616-03.D	11/21/12	2031	12.63			
15	CV0043B-CS	350761604	616-04.D	11/21/12	2055	12.62			
16	CV0192A-CS	350761606	616-06.D	11/21/12	2118	12.63			
17	CV0192B-CS	350761607	616-07.D	11/21/12	2142	12.63			
18	FM0263A-CS-SP	350761608	616-08.D	11/21/12	2205	12.63			
19	FM0263B-CS-SP	350761609	616-09.D	11/21/12	2229	12.63			
20	FM0263C-CS-SP	350761610	616-10.D	11/21/12	2253	12.63			
21	FM0126A-CS-SP	350761611	616-11.D	11/21/12	2316	12.63			
22	FM0126B-CS-SP	350761612	616-12.D	11/21/12	2340	12.63			
23	CV0699A-CS	350761614	616-14.D	11/22/12	0004	12.63			
24	CV0699B-CS	350761615	616-15.D	11/22/12	0027	12.63			
25	CV0699C-CS	350761616	616-16.D	11/22/12	0051	12.63			
26	FM0210A-CS	350761617	616-17.D	11/22/12	0114	12.63			

QC LIMITS
S1 = Benzo(e)pyrene-d12 (+/- 0.6 MINUTES)

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

8

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 11/20/12

Instrument ID: SMSD03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION
S1 : 12.62 S2 : S3 : S4 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
27	FM0210B-CS	350761618	616-18.D	11/22/12	0138	12.63			
28	FM0210C-CS	350761619	616-19.D	11/22/12	0201	12.63			
29	CV0362A-CS	350761620	616-20.D	11/22/12	0225	12.63			
30	DFTPP2	47701	DFTPP2.D	11/26/12	1756				
31	CCV1136644	47785	SSCCV1.D	11/26/12	1816	12.63			
32	FM0263A-CS-SPDL1	350761608DL1	61608D20.D	11/26/12	2242	0 *			
33	FM0263B-CS-SPDL1	350761609DL1	61609D20.D	11/26/12	2305	0 *			
34	FM0263C-CS-SPDL1	350761610DL1	61610D20.D	11/26/12	2329	0 *			
35	CV0699B-CSDL1	350761615DL1	61615D20.D	11/26/12	2352	0 *			
36	FM0210C-CSDL1	350761619DL1	61619D20.D	11/27/12	0016	0 *			

QC LIMITS

S1 = Benzo(e)pyrene-d12 (+/- 0.6 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

3

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154207LCS

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	24.7	15.6	63.2			44 - 140
2-Methylnaphthalene	24.7	15.1	61.1			31 - 149
1-Methylnaphthalene	24.7	15.4	62.3			49 - 127
Acenaphthylene	24.7	16.6	67.2			45 - 129
Acenaphthene	24.7	15.7	63.6			47 - 127
Fluorene	24.7	16.1	65.2			52 - 125
Phenanthrene	24.7	16.4	66.4			48 - 131
Anthracene	24.7	18	72.9			56 - 123
Fluoranthene	24.7	17.7	71.7			46 - 135
Pyrene	24.7	17.9	72.5			45 - 133
Benzo(a)anthracene	24.7	20.4	82.6			39 - 140
Chrysene	24.7	18.9	76.5			50 - 132
Benzo(b)fluoranthene	24.7	20.1	81.4			40 - 143
Benzo(k)fluoranthene	24.7	20.3	82.2			49 - 131
Benzo(a)pyrene	24.7	21.1	85.4			52 - 130
Indeno(1,2,3-cd)pyrene	24.7	21.1	85.4			48 - 135
Dibenzo(a,h)anthracene	24.7	21	85.0			51 - 130
Benzo(g,h,i)perylene	24.7	20.8	84.2			48 - 133

Spike Recovery: 0 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

301112 1330

Form III

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

CV0043A-CSMS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Naphthalene	26	90	99	35.5 *	59 - 111
2-Methylnaphthalene	26	89	100	51.2 *	54 - 145
1-Methylnaphthalene	26	54	74	80.9	71 - 132
Acenaphthylene	26	16	170	615.0 *	54 - 115
Acenaphthene	26	5.9	30	94.1	57 - 119
Fluorene	26	6.4	140	541.0 *	59 - 118
Phenanthrene	26	100	1500	5383.0 *	54 - 112
Anthracene	26	20	270	988.0 *	40 - 138
Fluoranthene	26	170	2100	7383.0 *	55 - 132
Pyrene	26	150	1400	5094.0 *	55 - 123
Benzo(a)anthracene	26	130	1400	5113.0 *	53 - 119
Chrysene	26	140	960	3219.0 *	34 - 140
Benzo(b)fluoranthene	26	230	760	2047.0 *	50 - 171
Benzo(k)fluoranthene	26	79	710	2474.0 *	32 - 158
Benzo(a)pyrene	26	120	740	2414.0 *	20 - 120
Indeno(1,2,3-cd)pyrene	26	75	440	1415.0 *	19 - 122
Dibenzo(a,h)anthracene	26	27	220	755.0 *	41 - 114
Benzo(g,h,i)perylene	26	95	410	1241.0 *	50 - 150

Spike Recovery: 16 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1659

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Remo | CV0043A-CSMSD

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	26	83	0.0 *	17.2	30	59 - 111
2-Methylnaphthalene	26	92	13.3 *	10.0	30	54 - 145
1-Methylnaphthalene	26	66	48.4 *	11.8	30	71 - 132
Acenaphthylene	26	40	97.7	124.1 *	30	54 - 115
Acenaphthene	26	27	81.2	11.6	30	57 - 119
Fluorene	26	29	86.7	134.1 *	30	59 - 118
Phenanthrene	26	110	15.6 *	173.3 *	30	54 - 112
Anthracene	26	41	80.5	148.1 *	30	40 - 138
Fluoranthene	26	180	23.4 *	168.5 *	30	55 - 132
Pyrene	26	150	27.3 *	161.8 *	30	55 - 123
Benzo(a)anthracene	26	170	164.0 *	157.1 *	30	53 - 119
Chrysene	26	160	62.5	144.3 *	30	34 - 140
Benzo(b)fluoranthene	26	160	0.0 *	131.2 *	30	50 - 171
Benzo(k)fluoranthene	26	170	369.0 *	121.8 *	30	32 - 158
Benzo(a)pyrene	26	160	141.0 *	129.9 *	30	20 - 120
Indeno(1,2,3-cd)pyrene	26	120	169.0 *	115.0 *	30	19 - 122
Dibenzo(a,h)anthracene	26	73	180.0 *	100.5 *	30	41 - 114
Benzo(g,h,i)perylene	26	130	128.0	105.4 *	30	50 - 150

RPD: 14 out of 18 outside limits

Spike Recovery: 12 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1659

8270 SIM Standards Data

301112 1330

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD03 Calibration Date Begin: 11/20/12 End: 11/20/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1727 End: 1950

Min RRF for SPCC(#) = N/A Max %RSD for CCC(*) = 15 %

LAB FILE ID: RRF0.02 =SSCAL1.D RRF0.05 =SSCAL2.D
RRF0.1 =SSCAL3.D RRF0.5 =SSCAL4.D RRF1 =SSCAL5.D

COMPOUND		RRF0.02	RRF0.05	RRF0.1	RRF0.5	RRF1	$\overline{RRF}$	%RSD OR R^2	RSD
Naphthalene		1.825	1.716	1.766	1.671	1.477			
2-Methylnaphthalene		1.236	1.168	1.142	1.067	1.071			
1-Methylnaphthalene		1.211	1.058	1.155	0.989	0.926			
Acenaphthylene		1.871	1.732	1.842	1.630	1.500			
Acenaphthene	*	1.142	1.074	1.107	1.020	0.929		*	
Fluorene		1.343	1.156	1.247	1.167	1.066			
Phenanthrene		1.289	1.143	1.173	1.021	0.969			
Anthracene		1.162	1.086	1.136	1.065	0.967			
Fluoranthene	*	1.349	1.267	1.188	1.178	1.161		*	
Pyrene		1.478	1.326	1.357	1.185	1.192			
Benzo(a)anthracene		0.320	0.327	0.303	0.288	0.282			
Chrysene		0.363	0.360	0.339	0.314	0.307			
Benzo(b)fluoranthene		1.357	1.161	1.172	1.132	0.946			
Benzo(k)fluoranthene		1.444	1.659	1.370	1.199	1.251			
Benzo(a)pyrene	*	1.224	1.083	1.175	1.045	0.969		*	
Indeno(1,2,3-cd)pyrene		1.490	1.190	1.208	1.371	1.269			
Dibenzo(a,h)anthracene		1.262	0.972	1.014	1.115	1.052			
Benzo(g,h,i)perylene		1.173	1.077	1.039	1.066	0.970			
Benzo(e)pyrene-d12(SURR)		1.287	1.214	1.162	1.183	1.035			

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD03 Calibration Date Begin: 11/20/12 End: 11/20/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1727 End: 1950

Min RRF for SPCC(#) = N/A Max %RSD for CCC(*) = 15 %

LAB FILE ID: RRF5 =SSCAL6.D RRF10 =SSCAL7.D

COMPOUND		RRF5	RRF10				$\overline{RRF}$	%RSD OR R^2		RSD
Naphthalene		1.491	1.339				1.61225	11.1		
2-Methylnaphthalene		1.037	0.956				1.09659	8.5		
1-Methylnaphthalene		0.975	0.914				1.03255	11		
Acenaphthylene		1.505	1.387				1.63799	11.3		
Acenaphthene	*	0.973	0.889				1.01916	9.2	*	
Fluorene		1.163	1.048				1.17002	8.7		
Phenanthrene		1.038	0.826				1.06562	14.2		
Anthracene		1.036	0.826				1.03982	10.9		
Fluoranthene	*	1.036	1.026				1.17212	9.9	*	
Pyrene		1.248	1.074				1.26586	10.5		
Benzo(a)anthracene		0.282	0.278				0.29698	0.99996		
Chrysene		0.318	0.304				0.32947	7.5		
Benzo(b)fluoranthene		1.046	0.859				1.09609	0.99047		
Benzo(k)fluoranthene		1.089	0.955				1.28104	18.3		<-
Benzo(a)pyrene	*	1.005	0.830				1.04744	12.5	*	
Indeno(1,2,3-cd)pyrene		1.170	1.010				1.24389	12.3		
Dibenzo(a,h)anthracene		0.967	0.843				1.03219	0.99536		
Benzo(g,h,i)perylene		0.987	0.875				1.02683	9.2		
Benzo(e)pyrene-d12(SURR)		1.087	0.885				1.1219	11.8		

Average Used: 9.5

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/14/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1953 End: 2158

Min RRF for SPCC(#) = N/A Max %RSD for CCC(*) = 15 %

LAB FILE ID: RRF0.02 =SSCAL1.d RRF0.05 =SSCAL2.d
RRF0.1 =SSCAL3.d RRF0.5 =SSCAL4.d RRF1 =SSCAL5.d

COMPOUND		RRF0.02	RRF0.05	RRF0.1	RRF0.5	RRF1	$\overline{RRF}$	%RSD OR R^2	RSD
Naphthalene		1.042	1.050	0.933	0.879	0.933			
2-Methylnaphthalene		1.200	1.158	1.131	1.100	1.098			
1-Methylnaphthalene		1.133	1.053	1.040	1.006	1.011			
Acenaphthylene		1.603	1.567	1.557	1.584	1.606			
Acenaphthene	*	1.150	1.105	1.127	1.097	1.102		*	
Fluorene		1.377	1.292	1.327	1.309	1.283			
Phenanthrene		1.258	1.163	1.113	1.068	1.097			
Anthracene		1.051	1.018	0.980	0.929	0.980			
Fluoranthene	*	1.454	1.254	1.265	1.202	1.186		*	
Pyrene		1.459	1.322	1.253	1.225	1.234			
Benzo(a)anthracene		0.270	0.269	0.269	0.281	0.283			
Chrysene		0.349	0.339	0.328	0.339	0.319			
Benzo(b)fluoranthene		1.204	1.143	1.122	1.199	1.162			
Benzo(k)fluoranthene		1.405	1.389	1.262	1.304	1.286			
Benzo(a)pyrene	*	0.973	0.991	0.928	0.971	0.973		*	
Indeno(1,2,3-cd)pyrene		1.169	1.185	1.080	1.088	1.077			
Dibenzo(a,h)anthracene		0.968	0.949	0.884	0.890	0.887			
Benzo(g,h,i)perylene		1.115	1.102	0.917	0.914	0.932			
Benzo(e)pyrene-d12(SURR)		1.086	1.141	1.069	1.087	1.040			

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/14/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 1953 End: 2158

Min RRF for SPCC(#) = N/A Max %RSD for CCC(*) = 15 %

LAB FILE ID: RRF5 =SSCAL6.d RRF10 =SSCAL7.d

COMPOUND		RRF5	RRF10				$\overline{RRF}$	%RSD OR R^2		RSD
Naphthalene		1.024	1.010				0.98138	6.7		
2-Methylnaphthalene		1.136	1.153				1.13946	3.1		
1-Methylnaphthalene		1.033	1.042				1.04572	4		
Acenaphthylene		1.722	1.779				1.63114	5.2		
Acenaphthene	*	1.110	1.136				1.11822	1.8	*	
Fluorene		1.315	1.364				1.32378	2.7		
Phenanthrene		1.162	1.172				1.14751	5.4		
Anthracene		1.112	1.135				1.02939	7.3		
Fluoranthene	*	1.250	1.290				1.27177	6.9	*	
Pyrene		1.302	1.333				1.3039	6.2		
Benzo(a)anthracene		0.313	0.327				0.28776	8.1		
Chrysene		0.348	0.364				0.34066	4.3		
Benzo(b)fluoranthene		1.169	1.487				1.21207	10.3		
Benzo(k)fluoranthene		1.589	1.344				1.36855	8.1		
Benzo(a)pyrene	*	1.090	1.160				1.01221	8.1	*	
Indeno(1,2,3-cd)pyrene		1.233	1.328				1.16586	8		
Dibenzo(a,h)anthracene		1.009	1.088				0.95363	8		
Benzo(g,h,i)perylene		1.046	1.108				1.01921	9.3		
Benzo(e)pyrene-d12(SURR)		1.141	1.175				1.1056	4.3		

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/14/12 Time: 2219

CCV ID: SSC1135488 Lab File ID: SSSEC.d Init. Calib. Date Begin: 11/14/12 End: 11/14/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	RRF	
Naphthalene		0.98138	0.95507	2.7	AVRG		
2-Methylnaphthalene		1.13946	0.89939	21.1	AVRG		
1-Methylnaphthalene		1.04572	0.93207	10.9	AVRG		
Acenaphthylene		1.63114	1.534	6.0	AVRG		
Acenaphthene	*	1.11822	1.022	8.6	AVRG		*
Fluorene		1.32378	1.309	1.1	AVRG		
Phenanthrene		1.14751	1.281	11.6	AVRG		
Anthracene		1.02939	0.91559	11.1	AVRG		
Fluoranthene	*	1.27177	1.254	1.4	AVRG		*
Pyrene		1.3039	1.149	11.9	AVRG		
Benzo(a)anthracene		0.28776	0.24852	13.6	AVRG		
Chrysene		0.34066	0.32201	5.5	AVRG		
Benzo(b)fluoranthene		1.21207	1.101	9.2	AVRG		
Benzo(k)fluoranthene		1.36855	1.218	11.0	AVRG		
Benzo(a)pyrene	*	1.01221	0.89322	11.8	AVRG		*
Indeno(1,2,3-cd)pyrene		1.16586	0.97949	16.0	AVRG		
Dibenzo(a,h)anthracene		0.95363	0.94206	1.2	AVRG		
Benzo(g,h,i)perylene		1.01921	0.90509	11.2	AVRG		
==========							
Benzo(e)pyrene-d12(SURR)		1.1056	1.205	9.0	AVRG		

Average Used: 9.2

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD03 CalibrationDate: 11/20/12 Time: 2013

CCV ID: SSC1135487 Lab File ID: SSSEC.D Init. Calib. Date Begin: 11/20/12 End: 11/20/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	RRF	
Naphthalene		1.61225	1.756	8.9	AVRG		
2-Methylnaphthalene		1.09659	1.047	4.5	AVRG		
1-Methylnaphthalene		1.03255	1.084	5.0	AVRG		
Acenaphthylene		1.63799	1.813	10.7	AVRG		
Acenaphthene	*	1.01916	1.047	2.7	AVRG		*
Fluorene		1.17002	1.17	0.0	AVRG		
Phenanthrene		1.06562	1.145	7.4	AVRG		
Anthracene		1.03982	1.011	2.8	AVRG		
Fluoranthene	*	1.17212	1.259	7.4	AVRG		*
Pyrene		1.26586	1.313	3.7	AVRG		
Benzo(a)anthracene		0.5	0.525	5.0	LINR		
Chrysene		0.32947	0.34035	3.3	AVRG		
Benzo(b)fluoranthene		0.5	0.533	6.6	LINR		
Benzo(k)fluoranthene		1.28104	1.359	6.1	AVRG		
Benzo(a)pyrene	*	1.04744	1.119	6.8	AVRG		*
Indeno(1,2,3-cd)pyrene		1.24389	1.36	9.3	AVRG		
Dibenzo(a,h)anthracene		0.5	0.533	6.6	LINR		
Benzo(g,h,i)perylene		1.02683	1.174	14.3	AVRG		
==========							
Benzo(e)pyrene-d12(SURR)		1.1219	1.211	7.9	AVRG		

7

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD03 CalibrationDate: 11/21/12 Time: 1901

CCV ID: CCV1137703 Lab File ID: SSCCV2.D Init. Calib. Date Begin: 11/20/12 End: 11/20/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	RRF	
Naphthalene		1.61225	1.686	4.6	AVRG		
2-Methylnaphthalene		1.09659	1.063	3.1	AVRG		
1-Methylnaphthalene		1.03255	1.052	1.9	AVRG		
Acenaphthylene		1.63799	1.704	4.0	AVRG		
Acenaphthene	*	1.01916	1.038	1.8	AVRG		*
Fluorene		1.17002	1.262	7.9	AVRG		
Phenanthrene		1.06562	0.91611	14.0	AVRG		
Anthracene		1.03982	1.004	3.4	AVRG		
Fluoranthene	*	1.17212	1.146	2.2	AVRG		*
Pyrene		1.26586	1.195	5.6	AVRG		
Benzo(a)anthracene		0.5	0.473	5.4	LINR		
Chrysene		0.32947	0.30245	8.2	AVRG		
Benzo(b)fluoranthene		0.5	0.511	2.2	LINR		
Benzo(k)fluoranthene		1.28104	1.138	11.2	AVRG		
Benzo(a)pyrene	*	1.04744	1.008	3.8	AVRG		*
Indeno(1,2,3-cd)pyrene		1.24389	1.107	11.0	AVRG		
Dibenzo(a,h)anthracene		0.5	0.399	20.2	LINR		
Benzo(g,h,i)perylene		1.02683	0.94165	8.3	AVRG		
==========							
Benzo(e)pyrene-d12(SURR)		1.1219	1.094	2.5	AVRG		

Average Used: 6.4

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/26/12 Time: 1644

CCV ID: CCV1136643 Lab File ID: SSCAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/14/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	RRF	
Naphthalene		0.98138	0.87119	11.2	AVRG		
2-Methylnaphthalene		1.13946	1.093	4.1	AVRG		
1-Methylnaphthalene		1.04572	1.008	3.6	AVRG		
Acenaphthylene		1.63114	1.655	1.5	AVRG		
Acenaphthene	*	1.11822	1.086	2.9	AVRG		*
Fluorene		1.32378	1.281	3.2	AVRG		
Phenanthrene		1.14751	1.031	10.2	AVRG		
Anthracene		1.02939	1.008	2.1	AVRG		
Fluoranthene	*	1.27177	1.161	8.7	AVRG		*
Pyrene		1.3039	1.213	7.0	AVRG		
Benzo(a)anthracene		0.28776	0.30326	5.4	AVRG		
Chrysene		0.34066	0.32752	3.9	AVRG		
Benzo(b)fluoranthene		1.21207	1.4	15.5	AVRG		
Benzo(k)fluoranthene		1.36855	1.298	5.2	AVRG		
Benzo(a)pyrene	*	1.01221	1.105	9.2	AVRG		*
Indeno(1,2,3-cd)pyrene		1.16586	1.239	6.3	AVRG		
Dibenzo(a,h)anthracene		0.95363	1.011	6.0	AVRG		
Benzo(g,h,i)perylene		1.01921	1.068	4.8	AVRG		
==========							
Benzo(e)pyrene-d12(SURR)		1.1056	1.107	0.1	AVRG		

7

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD03 CalibrationDate: 11/26/12 Time: 1816

CCV ID: CCV1136644 Lab File ID: SSCCV1.D Init. Calib. Date Begin: 11/20/12 End: 11/20/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	RRF	
Naphthalene		1.61225	1.647	2.2	AVRG		
2-Methylnaphthalene		1.09659	1.056	3.7	AVRG		
1-Methylnaphthalene		1.03255	1.066	3.2	AVRG		
Acenaphthylene		1.63799	1.625	0.8	AVRG		
Acenaphthene	*	1.01916	1.033	1.4	AVRG		*
Fluorene		1.17002	1.163	0.6	AVRG		
Phenanthrene		1.06562	0.96901	9.1	AVRG		
Anthracene		1.03982	0.98207	5.6	AVRG		
Fluoranthene	*	1.17212	1.142	2.6	AVRG		*
Pyrene		1.26586	1.204	4.9	AVRG		
Benzo(a)anthracene		0.5	0.488	2.4	LINR		
Chrysene		0.32947	0.30862	6.3	AVRG		
Benzo(b)fluoranthene		0.5	0.435	13.0	LINR		
Benzo(k)fluoranthene		1.28104	1.176	8.2	AVRG		
Benzo(a)pyrene	*	1.04744	0.90578	13.5	AVRG		*
Indeno(1,2,3-cd)pyrene		1.24389	0.74832	39.8	AVRG		
Dibenzo(a,h)anthracene		0.5	0.246	50.8	LINR		
Benzo(g,h,i)perylene		1.02683	0.63055	38.6	AVRG		
==========							
Benzo(e)pyrene-d12(SURR)		1.1219	0.99835	11.0	AVRG		

Average Used: 11.5

7

SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/28/12 Time: 1713

CCV ID: CCV1137596 Lab File ID: SSCCV1.d Init. Calib. Date Begin: 11/14/12 End: 11/14/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = N/A Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	RRF	
Naphthalene		0.98138	0.85247	13.1	AVRG		
2-Methylnaphthalene		1.13946	1.045	8.3	AVRG		
1-Methylnaphthalene		1.04572	1.004	4.0	AVRG		
Acenaphthylene		1.63114	1.649	1.1	AVRG		
Acenaphthene	*	1.11822	1.055	5.7	AVRG		*
Fluorene		1.32378	1.259	4.9	AVRG		
Phenanthrene		1.14751	0.9574	16.6	AVRG		
Anthracene		1.02939	1.019	1.0	AVRG		
Fluoranthene	*	1.27177	1.187	6.7	AVRG		*
Pyrene		1.3039	1.251	4.1	AVRG		
Benzo(a)anthracene		0.28776	0.30584	6.3	AVRG		
Chrysene		0.34066	0.34486	1.2	AVRG		
Benzo(b)fluoranthene		1.21207	1.264	4.3	AVRG		
Benzo(k)fluoranthene		1.36855	1.54	12.5	AVRG		
Benzo(a)pyrene	*	1.01221	1.156	14.2	AVRG		*
Indeno(1,2,3-cd)pyrene		1.16586	1.321	13.3	AVRG		
Dibenzo(a,h)anthracene		0.95363	1.094	14.7	AVRG		
Benzo(g,h,i)perylene		1.01921	1.136	11.5	AVRG		
==========							
Benzo(e)pyrene-d12(SURR)		1.1056	1.191	7.7	AVRG		

8270 Semi-Volatile Organics

301112 1330

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8270D

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3545 for 8270 semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Spectrum Analytical Inc. does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 500 ug/Kg for the following analyte(s): 4,6-Dinitro-2-methylphenol.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature:
Name: Brian C. Spanfi Title: Lab Director

SIGNED: DATE: 12/17/2012

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

MANUAL INTEGRATION SUMMARY

The following analytes were manually integrated by the chemist.

Sample: 154211LCS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: 154211LCS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: 154211LCS Analyte: N-Nitroso-di-n-propylamine
Reason: Baseline integration, needs re-enforced due to interference on target peak
Sample: CV0043C-CS Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: CV0043C-CS Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: CV0043C-CS Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Sample: FM0126C-GS-SP Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Sample: FM0126C-GS-SP Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: CCV1137614 Analyte: 2,4-Dimethylphenol
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: CCV1137614 Analyte: N-Nitroso-di-n-propylamine
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: CCV1137619 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Calibration Sample: CCV1137619 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: SSC1135505 Analyte: Anthracene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135505 Analyte: Benzo(a)pyrene
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135505 Analyte: Butylbenzylphthalate
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: SSC1135505 Analyte: Carbazole
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: SSC1135505 Analyte: Chrysene-d12
Reason: Target peak was not properly identified, more than one peak in retention time window
Calibration Sample: SSC1135505 Analyte: N-Nitroso-di-n-propylamine
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: STD1135497 Analyte: Benzo(b)fluoranthene

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Reason: Split Peak
Calibration Sample: STD1135497 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135497 Analyte: Hexachlorocyclopentadiene
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: STD1135498 Analyte: Benzo(b)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135498 Analyte: Benzo(k)fluoranthene
Reason: Split Peak
Calibration Sample: STD1135498 Analyte: Naphthalene
Reason: Baseline integration, needs re-enforced due to interference on target peak
Calibration Sample: STD1135500 Analyte: N-Nitroso-di-n-propylamine
Reason: Split Peak
Calibration Sample: STD1135502 Analyte: N-Nitroso-di-n-propylamine
Reason: Split Peak

These manual integrations have been reviewed and meet all criteria in accordance with Spectrum Analytical Inc.'s SOP regarding manual integration.

Signature:
Name: Mark Jacobs Title: Chemist
CHEMIST: DATE: 11/29/2012

Signature:
Name: Brian C. Spaan Title: Lab Director
SECTION LEADER: DATE: 11/30/2012

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Method: 8270

EPA Sample No	Lab Sample ID
CV0043C-CS	350761605
FM0126C-GS-SP	350761613

301112 1331

8270 Sample Data

301112 1331

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.11 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
111-44-4	Bis(2-chloroethyl)ether	281	U	69.7	281
108-95-2	Phenol	1390	U	67.6	1390
95-57-8	2-Chlorophenol	281	U	71.7	281
108-60-1	2,2'-Oxybis(1-chloropropane)	281	U	229	281
95-48-7	2-Methylphenol	278	U	99.8	278
67-72-1	Hexachloroethane	281	U	52	281
621-64-7	N-Nitroso-di-n-propylamine	281	U	63.4	281
106-44-5	4-Methylphenol	281	U	61.3	281
98-95-3	Nitrobenzene	281	U	62.4	281
78-59-1	Isophorone	281	U	61.3	281
88-75-5	2-Nitrophenol	281	U	74.9	281
105-67-9	2,4-Dimethylphenol	278	U	59.3	278
111-91-1	Bis(2-chloroethoxy)methane	278	U	59.3	278
120-83-2	2,4-Dichlorophenol	278	U	78	278
91-20-3	Naphthalene	281	U	66.5	281
106-47-8	4-Chloroaniline	281	U	65.5	281
91-57-6	2-Methylnaphthalene	281	U	60.3	281
87-68-3	Hexachlorobutadiene	281	U	60.3	281
59-50-7	4-Chloro-3-methylphenol	281	U	58.2	281
90-12-0	1-Methylnaphthalene	281	U	64.5	281
77-47-4	Hexachlorocyclopentadiene	694	U	156	694
88-06-2	2,4,6-Trichlorophenol	278	U	70.7	278
95-95-4	2,4,5-Trichlorophenol	278	U	76.9	278
91-58-7	2-Chloronaphthalene	281	U	69.4	281
88-74-4	2-Nitroaniline	281	U	59.3	281
208-96-8	Acenaphthylene	281	U	57.2	281

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.11 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
131-11-3	Dimethylphthalate	281	U	61.3	281
606-20-2	2,6-Dinitrotoluene	281	U	52	281
83-32-9	Acenaphthene	281	U	50.9	281
99-09-2	3-Nitroaniline	278	U	83.2	278
51-28-5	2,4-Dinitrophenol	1390	U	229	1390
132-64-9	Dibenzofuran	281	U	56.1	281
121-14-2	2,4-Dinitrotoluene	281	U	50.9	281
100-02-7	4-Nitrophenol	694	U	55.1	694
86-73-7	Fluorene	281	U	53	281
7005-72-3	4-Chlorophenyl-phenylether	281	U	53	281
84-66-2	Diethylphthalate	281	U	53	281
100-01-6	4-Nitroaniline	278	U	91.5	278
534-52-1	4,6-Dinitro-2-methylphenol	281	U	276	281
86-30-6	N-Nitrosodiphenylamine	278	U	65.5	278
101-55-3	4-Bromophenyl-phenylether	281	U	50.9	281
118-74-1	Hexachlorobenzene	278	U	55.1	278
87-86-5	Pentachlorophenol	281	U	138	281
85-01-8	Phenanthrene	281	U	58.2	281
120-12-7	Anthracene	281	U	62.4	281
84-74-2	Di-n-butylphthalate	281	U	45.8	281
206-44-0	Fluoranthene	281	U	49.9	281
129-00-0	Pyrene	281	U	95.7	281
85-68-7	Butylbenzylphthalate	281	U	65.5	281
91-94-1	3,3'-Dichlorobenzidine	281	U	61.3	281
56-55-3	Benzo(a)anthracene	281	U	59.3	281
218-01-9	Chrysene	278	U	35.4	278

1

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605 Lab File ID: 616-05.d

Sample wt/vol: 25.11 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1928

PercentSolids: 76.6 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
117-81-7	Bis(2-ethylhexyl)phthalate	281	U	86.3	281
117-84-0	Di-n-octylphthalate	281	U	60.3	281
205-99-2	Benzo(b)fluoranthene	281	U	65.5	281
207-08-9	Benzo(k)fluoranthene	281	U	59.3	281
50-32-8	Benzo(a)pyrene	281	U	44.7	281
193-39-5	Indeno(1,2,3-cd)pyrene	281	U	54.1	281
53-70-3	Dibenzo(a,h)anthracene	281	U	42.6	281
191-24-2	Benzo(g,h,i)perylene	281	U	41.6	281
98-86-2	Acetophenone	281	U	104	281
95-94-3	1,2,4,5-Tetrachlorobenzene	281	U	48.9	281
86-74-8	Carbazole	281	U	56.1	281
105-60-2	Caprolactam	281	U	146	281
92-52-4	1,1'-Biphenyl	281	U	63.4	281
1912-24-9	Atrazine	281	U	82.1	281
100-52-7	Benzaldehyde	281	U	46.8	281

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.41 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
111-44-4	Bis(2-chloroethyl)ether	296	U	73.4	296
108-95-2	Phenol	1460	U	71.2	1460
95-57-8	2-Chlorophenol	296	U	75.6	296
108-60-1	2,2'-Oxybis(1-chloropropane)	296	U	241	296
95-48-7	2-Methylphenol	293	U	105	293
67-72-1	Hexachloroethane	296	U	54.8	296
621-64-7	N-Nitroso-di-n-propylamine	296	U	66.9	296
106-44-5	4-Methylphenol	296	U	64.7	296
98-95-3	Nitrobenzene	296	U	65.8	296
78-59-1	Isophorone	296	U	64.7	296
88-75-5	2-Nitrophenol	296	U	78.9	296
105-67-9	2,4-Dimethylphenol	293	U	62.5	293
111-91-1	Bis(2-chloroethoxy)methane	293	U	62.5	293
120-83-2	2,4-Dichlorophenol	293	U	82.2	293
91-20-3	Naphthalene	296	U	70.2	296
106-47-8	4-Chloroaniline	296	U	69.1	296
91-57-6	2-Methylnaphthalene	296	U	63.6	296
87-68-3	Hexachlorobutadiene	296	U	63.6	296
59-50-7	4-Chloro-3-methylphenol	296	U	61.4	296
90-12-0	1-Methylnaphthalene	296	U	68	296
77-47-4	Hexachlorocyclopentadiene	731	U	164	731
88-06-2	2,4,6-Trichlorophenol	293	U	74.5	293
95-95-4	2,4,5-Trichlorophenol	293	U	81.1	293
91-58-7	2-Chloronaphthalene	296	U	73.1	296
88-74-4	2-Nitroaniline	296	U	62.5	296
208-96-8	Acenaphthylene	296	U	60.3	296

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SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.41 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
131-11-3	Dimethylphthalate	296	U	64.7	296
606-20-2	2,6-Dinitrotoluene	296	U	54.8	296
83-32-9	Acenaphthene	296	U	53.7	296
99-09-2	3-Nitroaniline	293	U	87.7	293
51-28-5	2,4-Dinitrophenol	1470	U	241	1470
132-64-9	Dibenzofuran	296	U	59.2	296
121-14-2	2,4-Dinitrotoluene	296	U	53.7	296
100-02-7	4-Nitrophenol	731	U	58.1	731
86-73-7	Fluorene	296	U	55.9	296
7005-72-3	4-Chlorophenyl-phenylether	296	U	55.9	296
84-66-2	Diethylphthalate	296	U	55.9	296
100-01-6	4-Nitroaniline	293	U	96.5	293
534-52-1	4,6-Dinitro-2-methylphenol	296	U	292	296
86-30-6	N-Nitrosodiphenylamine	293	U	69.1	293
101-55-3	4-Bromophenyl-phenylether	296	U	53.7	296
118-74-1	Hexachlorobenzene	293	U	58.1	293
87-86-5	Pentachlorophenol	296	U	146	296
85-01-8	Phenanthrene	766		61.4	296
120-12-7	Anthracene	296	U	65.8	296
84-74-2	Di-n-butylphthalate	296	U	48.2	296
206-44-0	Fluoranthene	889		52.6	296
129-00-0	Pyrene	716		101	296
85-68-7	Butylbenzylphthalate	296	U	69.1	296
91-94-1	3,3'-Dichlorobenzidine	296	U	64.7	296
56-55-3	Benzo(a)anthracene	523		62.5	296
218-01-9	Chrysene	596		37.3	293

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613 Lab File ID: 616-13.d

Sample wt/vol: 25.41 Units: G Date Received: 11/16/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/26/12 Time: 1948

PercentSolids: 71.8 decanted : Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
117-81-7	Bis(2-ethylhexyl)phthalate	296	U	91	296
117-84-0	Di-n-octylphthalate	296	U	63.6	296
205-99-2	Benzo(b)fluoranthene	598		69.1	296
207-08-9	Benzo(k)fluoranthene	430		62.5	296
50-32-8	Benzo(a)pyrene	472		47.1	296
193-39-5	Indeno(1,2,3-cd)pyrene	296	U	57	296
53-70-3	Dibenzo(a,h)anthracene	296	U	44.9	296
191-24-2	Benzo(g,h,i)perylene	322		43.8	296
98-86-2	Acetophenone	296	U	110	296
95-94-3	1,2,4,5-Tetrachlorobenzene	296	U	51.5	296
86-74-8	Carbazole	296	U	59.2	296
105-60-2	Caprolactam	296	U	153	296
92-52-4	1,1'-Biphenyl	296	U	66.9	296
1912-24-9	Atrazine	296	U	86.6	296
100-52-7	Benzaldehyde	296	U	49.3	296

8270 QC Summary

301112 1331

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 154210MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154210MB Lab File ID: 11608MB.d

Sample wt/vol: 20.22 Units: G Date Received: 11/20/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/20/12 Time: 1822

PercentSolids: 100 decanted : ( ) Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
111-44-4	Bis(2-chloroethyl)ether	267	U	66.3	267
108-95-2	Phenol	1320	U	64.3	1320
95-57-8	2-Chlorophenol	267	U	68.2	267
108-60-1	2,2'-Oxybis(1-chloropropane)	267	U	218	267
95-48-7	2-Methylphenol	264	U	95	264
67-72-1	Hexachloroethane	267	U	49.4	267
621-64-7	N-Nitroso-di-n-propylamine	267	U	60.3	267
106-44-5	4-Methylphenol	267	U	58.4	267
98-95-3	Nitrobenzene	267	U	59.3	267
78-59-1	Isophorone	267	U	58.4	267
88-75-5	2-Nitrophenol	267	U	71.2	267
105-67-9	2,4-Dimethylphenol	264	U	56.4	264
111-91-1	Bis(2-chloroethoxy)methane	264	U	56.4	264
120-83-2	2,4-Dichlorophenol	264	U	74.2	264
91-20-3	Naphthalene	267	U	63.3	267
106-47-8	4-Chloroaniline	267	U	62.3	267
91-57-6	2-Methylnaphthalene	267	U	57.4	267
87-68-3	Hexachlorobutadiene	267	U	57.4	267
59-50-7	4-Chloro-3-methylphenol	267	U	55.4	267
90-12-0	1-Methylnaphthalene	267	U	61.3	267
77-47-4	Hexachlorocyclopentadiene	660	U	148	660
88-06-2	2,4,6-Trichlorophenol	264	U	67.2	264
95-95-4	2,4,5-Trichlorophenol	264	U	73.2	264
91-58-7	2-Chloronaphthalene	267	U	66	267
88-74-4	2-Nitroaniline	267	U	56.4	267
208-96-8	Acenaphthylene	267	U	54.4	267
131-11-3	Dimethylphthalate	267	U	58.4	267

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 154210MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154210MB Lab File ID: 11608MB.d

Sample wt/vol: 20.22 Units: G Date Received: 11/20/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/20/12 Time: 1822

PercentSolids: 100 decanted : (Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
606-20-2	2,6-Dinitrotoluene	267	U	49.4	267
83-32-9	Acenaphthene	267	U	48.5	267
99-09-2	3-Nitroaniline	264	U	79.1	264
51-28-5	2,4-Dinitrophenol	1320	U	218	1320
132-64-9	Dibenzofuran	267	U	53.4	267
121-14-2	2,4-Dinitrotoluene	267	U	48.5	267
100-02-7	4-Nitrophenol	660	U	52.4	660
86-73-7	Fluorene	267	U	50.4	267
7005-72-3	4-Chlorophenyl-phenylether	267	U	50.4	267
84-66-2	Diethylphthalate	267	U	50.4	267
100-01-6	4-Nitroaniline	264	U	87	264
534-52-1	4,6-Dinitro-2-methylphenol	267	U	263	267
86-30-6	N-Nitrosodiphenylamine	264	U	62.3	264
101-55-3	4-Bromophenyl-phenylether	267	U	48.5	267
118-74-1	Hexachlorobenzene	264	U	52.4	264
87-86-5	Pentachlorophenol	267	U	132	267
85-01-8	Phenanthrene	267	U	55.4	267
120-12-7	Anthracene	267	U	59.3	267
84-74-2	Di-n-butylphthalate	267	U	43.5	267
206-44-0	Fluoranthene	267	U	47.5	267
129-00-0	Pyrene	267	U	91	267
85-68-7	Butylbenzylphthalate	267	U	62.3	267
91-94-1	3,3'-Dichlorobenzidine	267	U	58.4	267
56-55-3	Benzo(a)anthracene	267	U	56.4	267
218-01-9	Chrysene	264	U	33.6	264
117-81-7	Bis(2-ethylhexyl)phthalate	267	U	82.1	267
117-84-0	Di-n-octylphthalate	267	U	57.4	267

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 154210MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154210MB Lab File ID: 11608MB.d

Sample wt/vol: 20.22 Units: G Date Received: 11/20/12

Concentrated Extract Volume: 1 Date Extracted: 11/20/12

Level:(low/med) LOW Date Analyzed: 11/20/12 Time: 1822

PercentSolids: 100 decanted : (Dilution Factor: 1

Extraction: OTHER Station ID: Method: 8270

GPC Cleanup : (Y/N) N pH:

Column(1): HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	*ANALYTE*	*RESULT*	*Q*	*MDL*	*RL*
205-99-2	Benzo(b)fluoranthene	267	U	62.3	267
207-08-9	Benzo(k)fluoranthene	267	U	56.4	267
50-32-8	Benzo(a)pyrene	267	U	42.5	267
193-39-5	Indeno(1,2,3-cd)pyrene	267	U	51.4	267
53-70-3	Dibenzo(a,h)anthracene	267	U	40.6	267
191-24-2	Benzo(g,h,i)perylene	267	U	39.6	267
98-86-2	Acetophenone	267	U	98.9	267
95-94-3	1,2,4,5-Tetrachlorobenzene	267	U	46.5	267
86-74-8	Carbazole	267	U	53.4	267
105-60-2	Caprolactam	267	U	138	267
92-52-4	1,1'-Biphenyl	267	U	60.3	267
1912-24-9	Atrazine	267	U	78.1	267
100-52-7	Benzaldehyde	267	U	44.5	267

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SEMI-VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 154210MB

Lab Name: Spectrum Analytical, Inc Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID: 11608MB.d Lab Sample ID: 154210MB

Instrument ID: SMSD04 Date Extracted: 11/20/12

Matrix: SOIL Date Analyzed: 11/20/12

Level:(low/med) LOW Time Analyzed: 1822

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	154211LCS	154211LCS	11608LCS.d	11/20/12	1842
2	CV0043C-CS	350761605	616-05.d	11/26/12	1928
3	FM0126C-GS-SP	350761613	616-13.d	11/26/12	1948

COMMENTS:

2A

SOIL SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 3507616

Column(1): HPMS-5 ID: 0.25 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
154210MB	81.2	82.8	77.7	76.9	86.8	76.1	0
154211LCS	83.4	82.4	80.2	80.6	89.1	79.0	0
CV0043C-CS	76.3	77.1	78.1	75.0	88.3	76.9	0
FM0126C-GS-SP	66.1	69.3	67.9	71.2	85.2	72.6	0

Control Limits

S1	=	2-Fluorophenol	25 - 121
S2	=	Phenol-d5	24 - 113
S3	=	Nitrobenzene-d5	23 - 120
S4	=	2-Fluorobiphenyl	30 - 115
S5	=	2,4,6-Tribromophenol	19 - 122
S6	=	p-Terphenyl-d14	18 - 137

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.d DFTPP Injection Date: 11/20/12

Instrument ID: SMSD04 DFTPP Injection Time: 1552

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	44.8	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	56.8	
70	Less than 2.0% of mass 69	0.2	(0.28)1
127	10.0 - 80.0% of mass 198	49.7	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.8	
275	10.0 - 60.0% of mass 198	23.6	
365	Greater than 1.0% of mass 198	3.1	
441	0.0 - 24.0% of mass 442	11.6	(17.49)2
442	Greater than 50.0% of mass 198	66.4	
443	15.0 - 24.0% of mass 442	13.3	(20.08)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1136491	47766	8270CAL4.d	11/20/12	1630
2	CCV1136493	47965	BSCAL4.d	11/20/12	1653
3	CCV1136492	47936	AP9CAL4.d	11/20/12	1714
4	154210MB	154210MB	11608MB.d	11/20/12	1822
5	154211LCS	154211LCS	11608LCS.d	11/20/12	1842

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP4.d DFTPP Injection Date: 11/15/12

Instrument ID: SMSD04 DFTPP Injection Time: 0143

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	43.2	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	55.1	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	49.5	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.9	
275	10.0 - 60.0% of mass 198	24.9	
365	Greater than 1.0% of mass 198	3	
441	0.0 - 24.0% of mass 442	12.4	(17.08)2
442	Greater than 50.0% of mass 198	72.9	
443	15.0 - 24.0% of mass 442	14.5	(19.87)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1135522	47885	BSCAL7.d	11/15/12	0201
2	STD1135521	47962	BSCAL6.d	11/15/12	0222
3	STD1135520	47964	BSCAL5.d	11/15/12	0243

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP6.d DFTPP Injection Date: 11/15/12

Instrument ID: SMSD04 DFTPP Injection Time: 0722

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	44.2	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	55.3	
70	Less than 2.0% of mass 69	0.1	(0.21)1
127	10.0 - 80.0% of mass 198	49.3	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	6.6	
275	10.0 - 60.0% of mass 198	23.4	
365	Greater than 1.0% of mass 198	3	
441	0.0 - 24.0% of mass 442	11.2	(17.16)2
442	Greater than 50.0% of mass 198	65.5	
443	15.0 - 24.0% of mass 442	12.9	(19.62)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1135518	47965	BSCAL4.d	11/15/12	0740
2	STD1135517	47966	BSCAL3.d	11/15/12	0801
3	STD1135516	47967	BSCAL2.d	11/15/12	0822
4	STD1135515	47968	BSCAL1.d	11/15/12	0843
5	SSC1135523	47969	BSSEC.d	11/15/12	0904
6	STD1135513	47933	AP9CAL7.d	11/15/12	0925
7	STD1135512	47934	AP9CAL6.d	11/15/12	0946
8	STD1135511	47935	AP9CAL5.d	11/15/12	1007
9	STD1135509	47936	AP9CAL4.d	11/15/12	1028
10	STD1135508	47937	AP9CAL3.d	11/15/12	1049
11	STD1135507	47938	AP9CAL2.d	11/15/12	1109
12	STD1135506	47939	AP9CAL1.d	11/15/12	1130
13	SSC1135514	47943	AP9SEC.d	11/15/12	1151

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.D DFTPP Injection Date: 11/14/12

Instrument ID: SMSD04 DFTPP Injection Time: 1935

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	39.3	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	50.1	
70	Less than 2.0% of mass 69	0	(0)1
127	10.0 - 80.0% of mass 198	47.4	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	7	
275	10.0 - 60.0% of mass 198	25.5	
365	Greater than 1.0% of mass 198	3.5	
441	0.0 - 24.0% of mass 442	13.5	(16.9)2
442	Greater than 50.0% of mass 198	79.8	
443	15.0 - 24.0% of mass 442	16.1	(20.21)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD1135504	47763	8270CAL7.d	11/14/12	2240
2	STD1135503	47764	8270CAL6.d	11/14/12	2301
3	STD1135502	47765	8270CAL5.d	11/14/12	2322
4	STD1135500	47766	8270CAL4.d	11/14/12	2343
5	STD1135499	47767	8270CAL3.d	11/15/12	0004
6	STD1135498	47768	8270CAL2.d	11/15/12	0025
7	STD1135497	47769	8270CAL1.d	11/15/12	0046
8	SSC1135505	47770	8270SEC.d	11/15/12	0107

5

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Lab File ID: DFTPP2.d DFTPP Injection Date: 11/26/12

Instrument ID: SMSD04 DFTPP Injection Time: 1626

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	41.9	
68	Less than 2.0% of mass 69	0	(0)1
69	Mass 69 relative abundance	53.2	
70	Less than 2.0% of mass 69	0.3	(0.55)1
127	10.0 - 80.0% of mass 198	47.4	
197	Less than 2.0% of mass 198	0	
198	Base Peak, 100% relative abundance	100	
199	5.0 - 9.0% of mass 198	7	
275	10.0 - 60.0% of mass 198	24.3	
365	Greater than 1.0% of mass 198	3.5	
441	0.0 - 24.0% of mass 442	13.7	(17.16)2
442	Greater than 50.0% of mass 198	80	
443	15.0 - 24.0% of mass 442	15.7	(19.63)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV1137614	47766	8270CAL4.d	11/26/12	1704
2	CCV1137617	47965	BSCAL4.d	11/26/12	1725
3	CCV1137615	47936	AP9CAL4.d	11/26/12	1746
4	CV0043C-CS	350761605	616-05.d	11/26/12	1928
5	FM0126C-GS-SP	350761613	616-13.d	11/26/12	1948

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID (Standard): 8270CAL4.d Date Analyzed: 11/14/2012

Instrument ID: SMSD04 Time Analyzed: 23:43

GC Column: HPMS-5 ID: 0.25 (mm)

		IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
	MID CAL STD	99413		4.30	328158		5.47	204923		7.17
	UPPER LIMIT	198826		4.80	656316		5.97	409846		7.67
	LOWER LIMIT	49706.5		3.80	164079		4.97	102461.5		6.67
	EPA SAMPLE NO.									
1	154210MB	83791		4.28	282070		5.45	182800		7.16
2	154211LCS	89360		4.29	290694		5.45	186432		7.16
3	CV0043C-CS	98786		4.28	323574		5.45	206015		7.15
4	FM0126C-GS-SP	77009		4.28	257101		5.45	165611		7.15

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Naphthalene-d8

IS3 = Acenaphthene-d10

UPPER LIMIT = +100% of internal standard area.

LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

8A

SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Lab File ID (Standard): 8270CAL4.d Date Analyzed: 11/14/2012

Instrument ID: SMSD04 Time Analyzed: 23:43

GC Column: HPMS-5 ID: 0.25 (mm)

		IS4 AREA	#	RT	IS5 AREA	#	RT	IS6 AREA	#	RT
	MID CAL STD	343898		8.60	389232		11.21	344421		12.53
	UPPER LIMIT	687796		9.10	778464		11.71	688842		13.03
	LOWER LIMIT	171949		8.10	194616		10.71	172210.5		12.03
	EPA SAMPLE NO.									
1	154210MB	325306		8.59	382286		11.20	359967		12.52
2	154211LCS	328976		8.59	394282		11.20	359920		12.51
3	CV0043C-CS	378531		8.58	418171		11.19	389785		12.51
4	FM0126C-GS-SP	303166		8.58	334481		11.19	317232		12.51

IS4 = Phenanthrene-d10

IS5 = Chrysene-d12

IS6 = Perylene-d12

UPPER LIMIT = +100% of internal standard area.

LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

8

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 11/15/12

Instrument ID: SMSD04

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION
S1 : 3.25 S2 : 4.01 S3 : 4.82 S4 : 6.52

	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
1	DFTPP2	47137	DFTPP2.D	11/14/12	1935				
2	STD1135504	47763	8270CAL7.d	11/14/12	2240	3.25	4.02	4.82	6.52
3	STD1135503	47764	8270CAL6.d	11/14/12	2301	3.25	4.01	4.82	6.52
4	STD1135502	47765	8270CAL5.d	11/14/12	2322	3.25	4.01	4.82	6.52
5	STD1135500	47766	8270CAL4.d	11/14/12	2343	3.25	4.01	4.82	6.52
6	STD1135499	47767	8270CAL3.d	11/15/12	0004	3.25	4	4.82	6.51
7	STD1135498	47768	8270CAL2.d	11/15/12	0025	3.25	4	4.82	6.51
8	STD1135497	47769	8270CAL1.d	11/15/12	0046	3.25	4	4.81	6.51
9	SSC1135505	47770	8270SEC.d	11/15/12	0107	3.25	4.01	4.82	6.51
10	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/15/12	0127				
11	DFTPP4	47137	DFTPP4.d	11/15/12	0143				
12	STD1135522	47885	BSCAL7.d	11/15/12	0201				
13	STD1135521	47962	BSCAL6.d	11/15/12	0222				
14	STD1135520	47964	BSCAL5.d	11/15/12	0243				
15	DFTPP6	47137	DFTPP6.d	11/15/12	0722				
16	STD1135518	47965	BSCAL4.d	11/15/12	0740				
17	STD1135517	47966	BSCAL3.d	11/15/12	0801				
18	STD1135516	47967	BSCAL2.d	11/15/12	0822				
19	STD1135515	47968	BSCAL1.d	11/15/12	0843				
20	SSC1135523	47969	BSSEC.d	11/15/12	0904				
21	STD1135513	47933	AP9CAL7.d	11/15/12	0925				
22	STD1135512	47934	AP9CAL6.d	11/15/12	0946				
23	STD1135511	47935	AP9CAL5.d	11/15/12	1007				
24	STD1135509	47936	AP9CAL4.d	11/15/12	1028				
25	STD1135508	47937	AP9CAL3.d	11/15/12	1049				
26	STD1135507	47938	AP9CAL2.d	11/15/12	1109				

			QC LIMITS
S1	=	2-Fluorophenol	(+/- 0.26 MINUTES)
S2	=	Phenol-d5	(+/- 0.26 MINUTES)
S3	=	Nitrobenzene-d5	(+/- 0.33 MINUTES)
S4	=	2-Fluorobiphenyl	(+/- 0.43 MINUTES)
S5	=	2,4,6-Tribromophenol	(+/- 0.43 MINUTES)
S6	=	p-Terphenyl-d14	(+/- 0.68 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

8

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 11/15/12

Instrument ID: SMSD04

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION
S1 : 3.25 S2 : 4.01 S3 : 4.82 S4 : 6.52

	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
27	STD1135506	47939	AP9CAL1.d	11/15/12	1130				
28	SSC1135514	47943	AP9SEC.d	11/15/12	1151				
29	DFTPP2	47137	DFTPP2.d	11/20/12	1552				
30	CCV1136491	47766	8270CAL4.d	11/20/12	1630	3.24	3.99	4.8	6.5
31	CCV1136493	47965	BSCAL4.d	11/20/12	1653				
32	CCV1136492	47936	AP9CAL4.d	11/20/12	1714				
33	154210MB	154210MB	11608MB.d	11/20/12	1822	3.23	3.99	4.8	6.5
34	154211LCS	154211LCS	11608LCS.d	11/20/12	1842	3.24	4	4.81	6.5
35	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2013				
36	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2033				
37	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2053				
38	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2153				
39	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2213				
40	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2234				
41	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2314				
42	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2334				
43	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/20/12	2354				
44	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/21/12	0014				
45	DFTPP2	47137	DFTPP2.d	11/26/12	1626				
46	CCV1137614	47766	8270CAL4.d	11/26/12	1704	3.24	3.99	4.8	6.5
47	CCV1137617	47965	BSCAL4.d	11/26/12	1725				
48	CCV1137615	47936	AP9CAL4.d	11/26/12	1746				
49	CV0043C-CS	350761605	616-05.d	11/26/12	1928	3.24	3.99	4.8	6.5
50	FM0126C-GS-SP	350761613	616-13.d	11/26/12	1948	3.24	3.99	4.8	6.5
51	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/29/12	1133				
52	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/29/12	1151				

			QC LIMITS
S1	=	2-Fluorophenol	(+/- 0.26 MINUTES)
S2	=	Phenol-d5	(+/- 0.26 MINUTES)
S3	=	Nitrobenzene-d5	(+/- 0.33 MINUTES)
S4	=	2-Fluorobiphenyl	(+/- 0.43 MINUTES)
S5	=	2,4,6-Tribromophenol	(+/- 0.43 MINUTES)
S6	=	p-Terphenyl-d14	(+/- 0.68 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

8

SEMI-VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

GC Column: HPMS-5 ID: 0.25 (mm) Init. Calib. Date: 11/15/12

Instrument ID: SMSD04

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION
S1 : 3.25 S2 : 4.01 S3 : 4.82 S4 : 6.52

	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
53	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/29/12	1212				
54	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/29/12	1233				
55	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/29/12	1551				
56	ZZZZZZ	ZZZZZZ	ZZZZZZ	11/29/12	1611				

			QC LIMITS
S1	=	2-Fluorophenol	(+/- 0.26 MINUTES)
S2	=	Phenol-d5	(+/- 0.26 MINUTES)
S3	=	Nitrobenzene-d5	(+/- 0.33 MINUTES)
S4	=	2-Fluorobiphenyl	(+/- 0.43 MINUTES)
S5	=	2,4,6-Tribromophenol	(+/- 0.43 MINUTES)
S6	=	p-Terphenyl-d14	(+/- 0.68 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

3

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 154211LCS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	1980	1850	93.4			57 - 113
Phenol	1980	1890	95.5			57 - 103
2-Chlorophenol	1980	1730	87.4			57 - 100
2,2'-Oxybis(1-chloropropane)	1980	1660	83.8			46 - 107
2-Methylphenol	1980	1760	88.9			55 - 100
Hexachloroethane	1980	1610	81.3			49 - 110
N-Nitroso-di-n-propylamine	1980	1810	91.4			54 - 112
4-Methylphenol	1980	1850	93.4			54 - 104
Nitrobenzene	1980	1670	84.3			53 - 99
Isophorone	1980	1590	80.3			54 - 112
2-Nitrophenol	1980	1840	92.9			54 - 107
2,4-Dimethylphenol	1980	2050	104.0			56 - 123
Bis(2-chloroethoxy)methane	1980	2360	119.0			51 - 127
2,4-Dichlorophenol	1980	1840	92.9			56 - 101
Naphthalene	1980	1790	90.4			58 - 102
4-Chloroaniline	1980	1760	88.9			53 - 106
2-Methylnaphthalene	1980	1770	89.4			57 - 99
Hexachlorobutadiene	1980	1840	92.9			56 - 108
4-Chloro-3-methylphenol	1980	1830	92.4			64 - 105
1-Methylnaphthalene	1980	1700	85.9			51 - 111
Hexachlorocyclopentadiene	1980	1410	71.2			18 - 110
2,4,6-Trichlorophenol	1980	1840	92.9			60 - 105
2,4,5-Trichlorophenol	1980	1910	96.5			59 - 103
2-Chloronaphthalene	1980	1770	89.4			56 - 103
2-Nitroaniline	1980	1800	90.9			56 - 113
Acenaphthylene	1980	1830	92.4			60 - 105
Dimethylphthalate	1980	1880	94.9			63 - 108
2,6-Dinitrotoluene	1980	1880	94.9			59 - 109
Acenaphthene	1980	1770	89.4			57 - 105
3-Nitroaniline	1980	1900	96.0			51 - 118
2,4-Dinitrophenol	3960	3950	99.7			5 - 117
Dibenzofuran	1980	1840	92.9			61 - 103

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

301112 1331

Form III

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 154211LCS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
2,4-Dinitrotoluene	1980	1940	98.0			59 - 109
4-Nitrophenol	1980	2000	101.0			49 - 117
Fluorene	1980	1800	90.9			60 - 105
4-Chlorophenyl-phenylether	1980	1780	89.9			58 - 103
Diethylphthalate	1980	1880	94.9			61 - 109
4-Nitroaniline	1980	2050	104.0			48 - 130
4,6-Dinitro-2-methylphenol	1980	1960	99.0			41 - 101
N-Nitrosodiphenylamine	1980	1960	99.0			61 - 112
4-Bromophenyl-phenylether	1980	1930	97.5			62 - 104
Hexachlorobenzene	1980	1820	91.9			60 - 102
Pentachlorophenol	1980	2020	102.0			39 - 123
Phenanthrene	1980	1870	94.4			63 - 106
Anthracene	1980	2140	108.0			62 - 108
Di-n-butylphthalate	1980	1980	100.0			62 - 110
Fluoranthene	1980	1940	98.0			62 - 113
Pyrene	1980	1910	96.5			58 - 121
Butylbenzylphthalate	1980	2070	104.0			64 - 128
3,3'-Dichlorobenzidine	3960	3620	91.4			50 - 104
Benzo(a)anthracene	1980	1980	100.0			63 - 117
Chrysene	1980	1890	95.5			62 - 113
Bis(2-ethylhexyl)phthalate	1980	2000	101.0			59 - 128
Di-n-octylphthalate	1980	1810	91.4			61 - 126
Benzo(b)fluoranthene	1980	2140	108.0			57 - 125
Benzo(k)fluoranthene	1980	2050	104.0			58 - 112
Benzo(a)pyrene	1980	1960	99.0			59 - 114
Indeno(1,2,3-cd)pyrene	1980	1930	97.5			55 - 115
Dibenzo(a,h)anthracene	1980	1930	97.5			50 - 113
Benzo(g,h,i)perylene	1980	1990	100.0			50 - 112
Acetophenone	3960	3150	79.5			50 - 107
1,2,4,5-Tetrachlorobenzene	1980	1590	80.3			50 - 114
Carbazole	1980	1920	97.0			68 - 114
Caprolactam	1980	1760	88.9			29 - 142

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

301112 1331

Form III

3

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154211LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
1,1'-Biphenyl	1980	1540	77.8			47 - 106
Atrazine	1980	1660	83.8			50 - 110
Benzaldehyde	1980	1150	58.1			27 - 111

Spike Recovery: 0 out of 67 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

301112 1331

Form III

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal | FM0126C-GS-SPMS

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Bis(2-chloroethyl)ether	2200	0	1600	73.3	30 - 126
Phenol	2200	0	1600	71.9	30 - 129
2-Chlorophenol	2200	0	1500	69.2	16 - 113
2,2'-Oxybis(1-chloropropane)	2200	0	1500	66.1	20 - 123
2-Methylphenol	2200	0	1500	68.3	27 - 117
Hexachloroethane	2200	0	1500	66.1	24 - 120
N-Nitroso-di-n-propylamine	2200	0	1600	71.5	22 - 128
4-Methylphenol	2200	0	1600	70.6	30 - 150
Nitrobenzene	2200	0	1500	68.3	14 - 129
Isophorone	2200	0	1400	65.6	35 - 144
2-Nitrophenol	2200	0	1600	72.9	14 - 113
2,4-Dimethylphenol	2200	0	1600	74.2	30 - 110
Bis(2-chloroethoxy)methane	2200	0	2100	94.6	31 - 126
2,4-Dichlorophenol	2200	0	1600	71.5	18 - 115
Naphthalene	2200	0	1600	72.4	29 - 119
4-Chloroaniline	2200	0	1400	64.7	30 - 143
2-Methylnaphthalene	2200	0	1600	73.3	33 - 120
Hexachlorobutadiene	2200	0	1600	72.4	32 - 120
4-Chloro-3-methylphenol	2200	0	1800	80.5	30 - 123
1-Methylnaphthalene	2200	0	1500	69.2	24 - 118
Hexachlorocyclopentadiene	2200	0	330	14.8	10 - 119
2,4,6-Trichlorophenol	2200	0	1700	76.0	14 - 118
2,4,5-Trichlorophenol	2200	0	1800	79.6	29 - 125
2-Chloronaphthalene	2200	0	1600	73.3	31 - 118
2-Nitroaniline	2200	0	1700	78.7	22 - 134
Acenaphthylene	2200	0	1700	75.6	26 - 123
Dimethylphthalate	2200	0	1800	82.4	33 - 127
2,6-Dinitrotoluene	2200	0	1800	82.8	26 - 123
Acenaphthene	2200	0	1700	75.1	30 - 135
3-Nitroaniline	2200	0	1700	76.9	20 - 125

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

181212 1656

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal | FM0126C-GS-SPMS

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
2,4-Dinitrophenol	4400	0	3400	77.8	15 - 150
Dibenzofuran	2200	0	1800	79.2	31 - 123
2,4-Dinitrotoluene	2200	0	1900	85.1	17 - 127
4-Nitrophenol	2200	0	2000	91.4	30 - 135
Fluorene	2200	0	1700	76.9	25 - 120
4-Chlorophenyl-phenylether	2200	0	1700	77.4	10 - 119
Diethylphthalate	2200	0	1800	82.4	30 - 127
4-Nitroaniline	2200	0	2000	88.2	10 - 150
4,6-Dinitro-2-methylphenol	2200	0	1800	79.6	40 - 130
N-Nitrosodiphenylamine	2200	0	1800	81.9	31 - 137
4-Bromophenyl-phenylether	2200	0	1800	81.9	31 - 129
Hexachlorobenzene	2200	0	1800	79.2	30 - 118
Pentachlorophenol	2200	0	2000	91.9	30 - 113
Phenanthrene	2200	770	1800	48.1	28 - 121
Anthracene	2200	0	2000	92.3	31 - 121
Di-n-butylphthalate	2200	0	1900	85.1	34 - 132
Fluoranthene	2200	890	2000	49.4	29 - 125
Pyrene	2200	720	1900	51.8	31 - 125
Butylbenzylphthalate	2200	0	2000	91.0	29 - 149
3,3'-Dichlorobenzidine	4400	0	2800	64.3	20 - 110
Benzo(a)anthracene	2200	520	2000	65.0	30 - 117
Chrysene	2200	600	1900	59.9	32 - 115
Bis(2-ethylhexyl)phthalate	2200	0	2200	98.2	32 - 138
Di-n-octylphthalate	2200	0	1700	78.7	30 - 150
Benzo(b)fluoranthene	2200	600	2200	71.1	23 - 128
Benzo(k)fluoranthene	2200	430	1900	67.9	31 - 120
Benzo(a)pyrene	2200	470	1900	62.8	31 - 121
Indeno(1,2,3-cd)pyrene	2200	0	2000	88.2	28 - 118
Dibenzo(a,h)anthracene	2200	0	2000	89.1	28 - 118
Benzo(g,h,i)perylene	2200	320	2000	74.6	28 - 120

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1656

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

FM0126C-GS-SPMS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Acetophenone	4400	0	3000	67.4	27 - 112
1,2,4,5-Tetrachlorobenzene	2200	0	1500	67.4	47 - 110
Carbazole	2200	0	1900	84.2	34 - 133
Caprolactam	2200	0	2000	88.2	10 - 150
1,1'-Biphenyl	2200	0	1500	68.8	30 - 152
Atrazine	2200	0	1500	68.8	10 - 149
Benzaldehyde	2200	0	960	43.7	10 - 140

Spike Recovery: 0 out of 67 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1656

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Remo | FM0126C-GS-SPMSD

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethyl)ether	2200	1800	81.9	8.8	30	30 - 126
Phenol	2200	1700	77.8	5.5	30	30 - 129
2-Chlorophenol	2200	1600	75.9	6.9	30	16 - 113
2,2'-Oxybis(1-chloropropane)	2200	1500	69.9	3.4	30	20 - 123
2-Methylphenol	2200	1600	72.2	3.3	30	27 - 117
Hexachloroethane	2200	1500	71.3	5.3	30	24 - 120
N-Nitroso-di-n-propylamine	2200	1700	79.6	8.5	30	22 - 128
4-Methylphenol	2200	1600	74.5	3.2	30	30 - 150
Nitrobenzene	2200	1600	73.1	4.5	30	14 - 129
Isophorone	2200	1500	69.9	4.1	30	35 - 144
2-Nitrophenol	2200	1800	81.5	8.9	30	14 - 113
2,4-Dimethylphenol	2200	1700	78.7	3.6	30	30 - 110
Bis(2-chloroethoxy)methane	2200	2300	106.0	9.6	30	31 - 126
2,4-Dichlorophenol	2200	1700	78.7	7.3	30	18 - 115
Naphthalene	2200	1800	82.4	10.7	30	29 - 119
4-Chloroaniline	2200	1400	66.7	0.7	30	30 - 143
2-Methylnaphthalene	2200	1700	78.7	4.8	30	33 - 120
Hexachlorobutadiene	2200	1800	83.3	11.8	30	32 - 120
4-Chloro-3-methylphenol	2200	1700	80.1	2.8	30	30 - 123
1-Methylnaphthalene	2200	1600	75.5	6.3	30	24 - 118
Hexachlorocyclopentadiene	2200	370	17.3	13.1	30	10 - 119
2,4,6-Trichlorophenol	2200	1800	81.0	4.1	30	14 - 118
2,4,5-Trichlorophenol	2200	1700	80.6	1.1	30	29 - 125
2-Chloronaphthalene	2200	1700	78.7	4.8	30	31 - 118
2-Nitroaniline	2200	1700	78.2	2.9	30	22 - 134
Acenaphthylene	2200	1700	79.6	2.9	30	26 - 123
Dimethylphthalate	2200	1800	84.3	0.0	30	33 - 127
2,6-Dinitrotoluene	2200	1700	80.6	5.0	30	26 - 123
Acenaphthene	2200	1700	79.2	3.0	30	30 - 135
3-Nitroaniline	2200	1700	79.6	1.2	30	20 - 125

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1656

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Remo | FM0126C-GS-SPMSD

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-Dinitrophenol	4300	3200	75.2	6.0	30	15 - 150
Dibenzofuran	2200	1800	81.0	0.0	30	31 - 123
2,4-Dinitrotoluene	2200	1800	84.3	3.2	30	17 - 127
4-Nitrophenol	2200	1900	88.9	5.1	30	30 - 135
Fluorene	2200	1700	78.2	0.6	30	25 - 120
4-Chlorophenyl-phenylether	2200	1700	77.8	1.8	30	10 - 119
Diethylphthalate	2200	1800	81.5	3.4	30	30 - 127
4-Nitroaniline	2200	1800	85.2	5.8	30	10 - 150
4,6-Dinitro-2-methylphenol	2200	1700	80.1	1.7	30	40 - 130
N-Nitrosodiphenylamine	2200	1900	87.0	3.8	30	31 - 137
4-Bromophenyl-phenylether	2200	1800	85.6	2.2	30	31 - 129
Hexachlorobenzene	2200	1800	81.5	0.6	30	30 - 118
Pentachlorophenol	2200	2100	97.2	3.4	30	30 - 113
Phenanthrene	2200	2100	63.6	15.6	30	28 - 121
Anthracene	2200	2100	96.3	1.9	30	31 - 121
Di-n-butylphthalate	2200	1900	88.9	2.1	30	34 - 132
Fluoranthene	2200	2200	60.2	10.1	30	29 - 125
Pyrene	2200	2100	64.1	12.1	30	31 - 125
Butylbenzylphthalate	2200	2000	94.0	1.0	30	29 - 149
3,3'-Dichlorobenzidine	4300	2700	62.9	4.7	30	20 - 110
Benzo(a)anthracene	2200	2100	73.5	7.4	30	30 - 117
Chrysene	2200	2000	66.9	6.1	30	32 - 115
Bis(2-ethylhexyl)phthalate	2200	2300	105.0	4.1	30	32 - 138
Di-n-octylphthalate	2200	1800	81.0	0.6	30	30 - 150
Benzo(b)fluoranthene	2200	2100	67.7	5.2	30	23 - 128
Benzo(k)fluoranthene	2200	2300	87.5	18.4	30	31 - 120
Benzo(a)pyrene	2200	2200	81.4	18.1	30	31 - 121
Indeno(1,2,3-cd)pyrene	2200	2000	93.1	3.0	30	28 - 118
Dibenzo(a,h)anthracene	2200	2000	92.1	1.0	30	28 - 118
Benzo(g,h,i)perylene	2200	2000	77.7	1.5	30	28 - 120

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1656

3

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Remo | FM0126C-GS-SPMSD

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetophenone	4300	3300	76.8	10.5	30	27 - 112
1,2,4,5-Tetrachlorobenzene	2200	1700	77.3	11.4	30	47 - 110
Carbazole	2200	1900	87.0	1.1	30	34 - 133
Caprolactam	2200	1900	86.1	4.7	30	10 - 150
1,1'-Biphenyl	2200	1600	75.0	6.4	30	30 - 152
Atrazine	2200	1500	67.6	4.0	30	10 - 149
Benzaldehyde	2200	980	45.5	1.7	30	10 - 140

RPD: 0 out of 67 outside limits

Spike Recovery: 0 out of 67 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

181212 1656

8270 Standards Data

301112 1331

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 2240 End: 1130

Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF4 =8270CAL1.d RRF10 =8270CAL2.d
RRF20 =8270CAL3.d RRF45 =8270CAL4.d RRF60 =8270CAL5.d

COMPOUND		RRF4	RRF10	RRF20	RRF45	RRF60	$\overline{RRF}$	%RSD OR R^2	RSD
Bis(2-chloroethyl)ether		1.139	1.254	1.275	1.310	1.289			
Phenol	*	1.542	1.726	1.818	1.893	1.905		*	
2-Chlorophenol		1.155	1.262	1.217	1.246	1.257			
2,2'-Oxybis(1-chloropropane)		1.556	1.679	1.651	1.629	1.645			
2-Methylphenol		0.942	1.038	0.988	1.004	1.026			
Hexachloroethane		0.581	0.672	0.640	0.662	0.661			
N-Nitroso-di-n-propylamine	#	0.945	1.076	1.051	1.092	1.123		#	
4-Methylphenol		1.367	1.494	1.460	1.504	1.547			
Nitrobenzene		0.494	0.506	0.506	0.507	0.504			
Isophorone		0.740	0.838	0.832	0.863	0.879			
2-Nitrophenol	*	0.175	0.199	0.197	0.210	0.212		*	
2,4-Dimethylphenol		0.250	0.271	0.288	0.320	0.314			
Bis(2-chloroethoxy)methane		0.467	0.480	0.486	0.499	0.499			
2,4-Dichlorophenol	*	0.314	0.321	0.342	0.355	0.359		*	
Naphthalene		1.020	1.041	1.036	1.075	1.061			
4-Chloroaniline		0.396	0.425	0.426	0.447	0.442			
2-Methylnaphthalene		0.653	0.697	0.703	0.707	0.733			
Hexachlorobutadiene	*	0.267	0.274	0.279	0.285	0.279		*	
4-Chloro-3-methylphenol	*	0.343	0.360	0.357	0.372	0.386		*	
1-Methylnaphthalene		0.624	0.636	0.630	0.652	0.670			
Hexachlorocyclopentadiene	#	0.216	0.287	0.352	0.433	0.423		#	
2,4,6-Trichlorophenol	*	0.385	0.424	0.421	0.423	0.428		*	
2,4,5-Trichlorophenol		0.415	0.440	0.441	0.464	0.469			
2-Chloronaphthalene		1.126	1.155	1.160	1.210	1.197			
2-Nitroaniline		0.347	0.398	0.414	0.426	0.438			
Acenaphthylene		1.728	1.757	1.801	1.854	1.921			
Dimethylphthalate		1.324	1.401	1.398	1.403	1.442			
2,6-Dinitrotoluene		0.247	0.301	0.316	0.331	0.346			
Acenaphthene	*	1.009	1.043	1.049	1.076	1.084		*	
3-Nitroaniline		0.253	0.307	0.307	0.304	0.312			
2,4-Dinitrophenol	#		0.107	0.139	0.179	0.198		#	
Dibenzofuran		1.543	1.579	1.615	1.640	1.683			
2,4-Dinitrotoluene		0.344	0.396	0.419	0.398	0.419			
4-Nitrophenol	#	0.175	0.241	0.249	0.254	0.282		#	

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 2240 End: 1130

Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF4 =8270CAL1.d RRF10 =8270CAL2.d
RRF20 =8270CAL3.d RRF45 =8270CAL4.d RRF60 =8270CAL5.d

COMPOUND		RRF4	RRF10	RRF20	RRF45	RRF60	$\overline{RRF}$	%RSD OR R^2		RSD
Fluorene		1.301	1.357	1.391	1.433	1.512				
4-Chlorophenyl-phenylether		0.684	0.704	0.727	0.766	0.791				
Diethylphthalate		1.313	1.354	1.363	1.340	1.408				
4-Nitroaniline		0.258	0.261	0.256	0.271	0.293				
4,6-Dinitro-2-methylphenol			0.122	0.131	0.162	0.166				
N-Nitrosodiphenylamine	*	0.489	0.507	0.509	0.531	0.517			*	
4-Bromophenyl-phenylether		0.224	0.235	0.241	0.262	0.254				
Hexachlorobenzene		0.264	0.252	0.270	0.290	0.291				
Pentachlorophenol	*	0.102	0.121	0.143	0.173	0.185			*	
Phenanthrene		1.063	1.079	1.053	1.106	1.110				
Anthracene		0.946	0.942	0.937	0.984	0.992				
Di-n-butylphthalate		1.108	1.236	1.263	1.381	1.400				
Fluoranthene	*	1.093	1.142	1.155	1.240	1.275			*	
Pyrene		1.015	1.019	1.053	1.096	1.071				
Butylbenzylphthalate		0.416	0.468	0.491	0.539	0.545				
3,3'-Dichlorobenzidine		0.347	0.396	0.403	0.433	0.444				
Benzo(a)anthracene		0.973	0.984	1.014	1.060	1.094				
Chrysene		0.982	0.991	1.009	1.037	1.054				
Bis(2-ethylhexyl)phthalate		0.587	0.638	0.674	0.730	0.749				
Di-n-octylphthalate	*	0.972	1.177	1.253	1.440	1.499			*	
Benzo(b)fluoranthene		0.961	1.415	1.043	1.102	1.162				
Benzo(k)fluoranthene		1.341	1.470	1.071	1.196	1.213				
Benzo(a)pyrene	*	0.942	0.994	0.984	1.056	1.086			*	
Indeno(1,2,3-cd)pyrene		1.049	1.115	1.130	1.223	1.195				
Dibenzo(a,h)anthracene		0.840	0.946	0.945	1.022	1.017				
Benzo(g,h,i)perylene		0.914	0.927	0.926	0.972	0.935				
Acetophenone		0.635	0.593	0.580	0.615	0.589				
1,2,4,5-Tetrachlorobenzene		0.621	0.651	0.645	0.664	0.682				
Carbazole		0.903	0.948	0.914	1.009	1.001				
Caprolactam		0.132	0.141	0.162	0.182	0.170				
1,1'-Biphenyl		1.363	1.459	1.445	1.488	1.509				
Atrazine		0.190	0.198	0.211	0.235	0.233				
Benzaldehyde		1.151	1.256	1.234	1.266	1.282				

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 2240 End: 1130

Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF4 =8270CAL1.d RRF10 =8270CAL2.d
RRF20 =8270CAL3.d RRF45 =8270CAL4.d RRF60 =8270CAL5.d

COMPOUND	RRF4	RRF10	RRF20	RRF45	RRF60	$\overline{RRF}$	%RSD OR R^2	RSD
2-Fluorophenol(SURR)	1.138	1.261	1.234	1.306	1.296			
Phenol-d5(SURR)	1.476	1.574	1.542	1.632	1.644			
Nitrobenzene-d5(SURR)	0.466	0.509	0.495	0.510	0.504			
2-Fluorobiphenyl(SURR)	1.365	1.409	1.395	1.459	1.447			
2,4,6-Tribromophenol(SURR)	0.213	0.225	0.236	0.248	0.264			
p-Terphenyl-d14(SURR)	0.778	0.765	0.801	0.853	0.832			

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 2240 End: 1130

Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF75 =8270CAL6.d RRF100 =8270CAL7.d

COMPOUND		RRF75	RRF100				$\overline{RRF}$	%RSD OR R^2		RSD
Bis(2-chloroethyl)ether		1.283	1.309				1.26557	4.7		
Phenol	*	1.946	1.985				1.8307	8.4	*	
2-Chlorophenol		1.269	1.280				1.24099	3.5		
2,2'-Oxybis(1-chloropropane)		1.617	1.639				1.63082	2.3		
2-Methylphenol		1.037	1.055				1.0129	3.8		
Hexachloroethane		0.663	0.662				0.64881	4.8		
N-Nitroso-di-n-propylamine	#	1.101	1.110				1.07132	5.7	#	
4-Methylphenol		1.562	1.609				1.50631	5.2		
Nitrobenzene		0.495	0.505				0.50245	1.1		
Isophorone		0.862	0.881				0.84206	5.8		
2-Nitrophenol	*	0.213	0.213				0.20284	7	*	
2,4-Dimethylphenol		0.317	0.315				0.29643	9.3		
Bis(2-chloroethoxy)methane		0.502	0.508				0.49157	3		
2,4-Dichlorophenol	*	0.360	0.372				0.34613	6.2	*	
Naphthalene		1.066	1.100				1.05678	2.5		
4-Chloroaniline		0.442	0.450				0.43264	4.3		
2-Methylnaphthalene		0.733	0.756				0.71176	4.7		
Hexachlorobutadiene	*	0.281	0.292				0.27961	2.8	*	
4-Chloro-3-methylphenol	*	0.382	0.403				0.37178	5.4	*	
1-Methylnaphthalene		0.674	0.700				0.6552	4.2		
Hexachlorocyclopentadiene	#	0.438	0.472				0.37449	0.99668	#	25.01117
2,4,6-Trichlorophenol	*	0.424	0.438				0.42048	4	*	
2,4,5-Trichlorophenol		0.476	0.481				0.45505	5.3		
2-Chloronaphthalene		1.186	1.233				1.1811	3.1		
2-Nitroaniline		0.421	0.432				0.41099	7.5		
Acenaphthylene		1.896	1.982				1.84838	5		
Dimethylphthalate		1.384	1.415				1.39542	2.6		
2,6-Dinitrotoluene		0.333	0.344				0.31685	10.9		
Acenaphthene	*	1.077	1.123				1.06595	3.4	*	
3-Nitroaniline		0.301	0.315				0.2999	7.1		
2,4-Dinitrophenol	#	0.198	0.215				0.17241	0.99685	#	23.96072
Dibenzofuran		1.655	1.723				1.63391	3.8		
2,4-Dinitrotoluene		0.409	0.427				0.40146	7		
4-Nitrophenol	#	0.278	0.282				0.25167	15	#	

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 2240 End: 1130

Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF75 =8270CAL6.d RRF100 =8270CAL7.d

COMPOUND		RRF75	RRF100				$\overline{RRF}$	%RSD OR R^2		RSD
Fluorene		1.495	1.577				1.43792	6.7		
4-Chlorophenyl-phenylether		0.780	0.835				0.75525	7		
Diethylphthalate		1.374	1.445				1.37106	3.2		
4-Nitroaniline		0.281	0.287				0.27236	5.5		
4,6-Dinitro-2-methylphenol		0.168	0.170				0.15321	13.6		
N-Nitrosodiphenylamine	*	0.520	0.531				0.51495	2.9	*	
4-Bromophenyl-phenylether		0.257	0.265				0.24814	6.1		
Hexachlorobenzene		0.293	0.299				0.27955	6.4		
Pentachlorophenol	*	0.187	0.195				0.1581	0.99813	*	22.98399
Phenanthrene		1.126	1.138				1.09648	2.9		
Anthracene		1.007	1.022				0.97596	3.5		
Di-n-butylphthalate		1.379	1.380				1.3067	8.3		
Fluoranthene	*	1.253	1.250				1.20121	5.8	*	
Pyrene		1.074	1.083				1.05858	3		
Butylbenzylphthalate		0.539	0.557				0.50783	10.2		
3,3'-Dichlorobenzidine		0.455	0.468				0.42076	9.9		
Benzo(a)anthracene		1.085	1.117				1.04684	5.4		
Chrysene		1.057	1.095				1.03234	3.9		
Bis(2-ethylhexyl)phthalate		0.750	0.775				0.70042	9.9		
Di-n-octylphthalate	*	1.484	1.646				1.35296	0.99485	*	17.00891
Benzo(b)fluoranthene		1.197	1.097				1.13969	12.6		
Benzo(k)fluoranthene		1.203	1.431				1.27504	11.3		
Benzo(a)pyrene	*	1.098	1.149				1.04394	7	*	
Indeno(1,2,3-cd)pyrene		1.241	1.248				1.17169	6.4		
Dibenzo(a,h)anthracene		1.056	1.086				0.98759	8.4		
Benzo(g,h,i)perylene		0.957	0.900				0.93301	2.6		
Acetophenone		0.591	0.606				0.60121	3.1		
1,2,4,5-Tetrachlorobenzene		0.675	0.697				0.66217	3.9		
Carbazole		1.000	1.000				0.96763	4.7		
Caprolactam		0.175	0.184				0.16349	12.4		
1,1'-Biphenyl		1.577	1.572				1.48772	5		
Atrazine		0.235	0.241				0.22031	9.3		
Benzaldehyde		1.283	1.272				1.24922	3.7		

SEMI-VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Instrument ID: SMSD04 Calibration Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm) Calibration Time Begin: 2240 End: 1130

Min RRF for SPCC(#) = 0.05 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF75 =8270CAL6.d RRF100 =8270CAL7.d

COMPOUND	RRF75	RRF100				$\overline{RRF}$	%RSD OR R^2	RSD
2-Fluorophenol(SURR)	1.316	1.364				1.27354	5.7	
Phenol-d5(SURR)	1.682	1.737				1.61238	5.5	
Nitrobenzene-d5(SURR)	0.509	0.518				0.5015	3.4	
2-Fluorobiphenyl(SURR)	1.453	1.478				1.42929	2.8	
2,4,6-Tribromophenol(SURR)	0.262	0.282				0.24715	9.8	
p-Terphenyl-d14(SURR)	0.853	0.875				0.82253	5.1	

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/15/12 Time: 0107

CCV ID: SSC1135505 Lab File ID: 8270SEC.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type		RRF
Bis(2-chloroethyl)ether		1.26557	1.496	18.2	AVRG		
Phenol	*	1.8307	2.022	10.4	AVRG	*	
2-Chlorophenol		1.24099	1.317	6.1	AVRG		
2,2'-Oxybis(1-chloropropane)		1.63082	1.782	9.3	AVRG		
2-Methylphenol		1.0129	1.076	6.2	AVRG		
Hexachloroethane		0.64881	0.69259	6.7	AVRG		
N-Nitroso-di-n-propylamine	#	1.07132	1.195	11.5	AVRG	#	
4-Methylphenol		1.50631	1.618	7.4	AVRG		
Nitrobenzene		0.50245	0.52285	4.1	AVRG		
Isophorone		0.84206	0.84341	0.2	AVRG		
2-Nitrophenol	*	0.20284	0.21757	7.3	AVRG	*	
2,4-Dimethylphenol		0.29643	0.35293	19.1	AVRG		
Bis(2-chloroethoxy)methane		0.49157	0.55058	12.0	AVRG		
2,4-Dichlorophenol	*	0.34613	0.36031	4.1	AVRG	*	
Naphthalene		1.05678	1.149	8.7	AVRG		
4-Chloroaniline		0.43264	0.455	5.2	AVRG		
2-Methylnaphthalene		0.71176	0.76819	7.9	AVRG		
Hexachlorobutadiene	*	0.27961	0.31269	11.8	AVRG	*	
4-Chloro-3-methylphenol	*	0.37178	0.38871	4.6	AVRG	*	
1-Methylnaphthalene		0.6552	0.6561	0.1	AVRG		
Hexachlorocyclopentadiene	#	45	45.4	0.9	LINR	#	0.43671
2,4,6-Trichlorophenol	*	0.42048	0.44526	5.9	AVRG	*	
2,4,5-Trichlorophenol		0.45505	0.49391	8.5	AVRG		
2-Chloronaphthalene		1.1811	1.268	7.4	AVRG		
2-Nitroaniline		0.41099	0.48684	18.5	AVRG		
Acenaphthylene		1.84838	2.015	9.0	AVRG		
Dimethylphthalate		1.39542	1.527	9.4	AVRG		
2,6-Dinitrotoluene		0.31685	0.35253	11.3	AVRG		
Acenaphthene	*	1.06595	1.128	5.8	AVRG	*	
3-Nitroaniline		0.2999	0.35108	17.1	AVRG		
2,4-Dinitrophenol	#	45	52.3	16.2	LINR	#	0.2254
Dibenzofuran		1.63391	1.805	10.5	AVRG		
2,4-Dinitrotoluene		0.40146	0.4444	10.7	AVRG		
4-Nitrophenol	#	0.25167	0.28483	13.2	AVRG	#	
Fluorene		1.43792	1.571	9.3	AVRG		
4-Chlorophenyl-phenylether		0.75525	0.7991	5.8	AVRG		

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/15/12 Time: 0107

CCV ID: SSC1135505 Lab File ID: 8270SEC.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type		RRF
Diethylphthalate		1.37106	1.464	6.8	AVRG		
4-Nitroaniline		0.27236	0.33041	21.3	AVRG		
4,6-Dinitro-2-methylphenol		0.15321	0.16471	7.5	AVRG		
N-Nitrosodiphenylamine	*	0.51495	0.58056	12.7	AVRG	*	
4-Bromophenyl-phenylether		0.24814	0.27323	10.1	AVRG		
Hexachlorobenzene		0.27955	0.30199	8.0	AVRG		
Pentachlorophenol	*	45	46.3	2.9	LINR	*	0.18719
Phenanthrene		1.09648	1.185	8.1	AVRG		
Anthracene		0.97596	1.155	18.3	AVRG		
Di-n-butylphthalate		1.3067	1.459	11.7	AVRG		
Fluoranthene	*	1.20121	1.344	11.9	AVRG	*	
Pyrene		1.05858	1.183	11.8	AVRG		
Butylbenzylphthalate		0.50783	0.60969	20.1	AVRG		
Benzo(a)anthracene		1.04684	1.183	13.0	AVRG		
Chrysene		1.03234	1.121	8.6	AVRG		
Bis(2-ethylhexyl)phthalate		0.70042	0.78939	12.7	AVRG		
Di-n-octylphthalate	*	45	49.5	10.0	LINR	*	1.668
Benzo(b)fluoranthene		1.13969	1.222	7.2	AVRG		
Benzo(k)fluoranthene		1.27504	1.351	6.0	AVRG		
Benzo(a)pyrene	*	1.04394	1.156	10.7	AVRG	*	
Indeno(1,2,3-cd)pyrene		1.17169	1.324	13.0	AVRG		
Dibenzo(a,h)anthracene		0.98759	1.109	12.3	AVRG		
Benzo(g,h,i)perylene		0.93301	1.041	11.6	AVRG		
Carbazole		0.96763	1.164	20.3	AVRG		
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2-Fluorophenol(SURR)		1.27354	1.393	9.4	AVRG		
Phenol-d5(SURR)		1.61238	1.665	3.3	AVRG		
Nitrobenzene-d5(SURR)		0.5015	0.50179	0.1	AVRG		
2-Fluorobiphenyl(SURR)		1.42929	1.455	1.8	AVRG		
2,4,6-Tribromophenol(SURR)		0.24715	0.26016	5.3	AVRG		
p-Terphenyl-d14(SURR)		0.82253	0.8252	0.3	AVRG		

Average Used: 9.4

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/15/12 Time: 0904

CCV ID: SSC1135523 Lab File ID: BSSEC.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
3,3'-Dichlorobenzidine	0.42076	0.47062	11.8	AVRG	
Acetophenone	0.60121	0.60342	0.4	AVRG	
Caprolactam	0.16349	0.1768	8.1	AVRG	
1,1'-Biphenyl	1.48772	1.6	7.5	AVRG	
Atrazine	0.22031	0.24171	9.7	AVRG	
Benzaldehyde	1.24922	1.337	7.0	AVRG	

7SSC

SEMI-VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/15/12 Time: 1151

CCV ID: SSC1135514 Lab File ID: AP9SEC.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Acetophenone	0.60121	0.60879	1.3	AVRG	
1,2,4,5-Tetrachlorobenzene	0.66217	0.6741	1.8	AVRG	

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/20/12 Time: 1630

CCV ID: CCV1136491 Lab File ID: 8270CAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type		RRF
Bis(2-chloroethyl)ether		1.26557	1.242	1.9	AVRG		
Phenol	*	1.8307	1.818	0.7	AVRG	*	
2-Chlorophenol		1.24099	1.219	1.8	AVRG		
2,2'-Oxybis(1-chloropropane)		1.63082	1.545	5.3	AVRG		
2-Methylphenol		1.0129	0.98595	2.7	AVRG		
Hexachloroethane		0.64881	0.66098	1.9	AVRG		
N-Nitroso-di-n-propylamine	#	1.07132	1.055	1.5	AVRG	#	
4-Methylphenol		1.50631	1.431	5.0	AVRG		
Nitrobenzene		0.50245	0.49338	1.8	AVRG		
Isophorone		0.84206	0.84285	0.1	AVRG		
2-Nitrophenol	*	0.20284	0.21262	4.8	AVRG	*	
2,4-Dimethylphenol		0.29643	0.28734	3.1	AVRG		
Bis(2-chloroethoxy)methane		0.49157	0.48796	0.7	AVRG		
2,4-Dichlorophenol	*	0.34613	0.35287	1.9	AVRG	*	
Naphthalene		1.05678	1.045	1.1	AVRG		
4-Chloroaniline		0.43264	0.42264	2.3	AVRG		
2-Methylnaphthalene		0.71176	0.69968	1.7	AVRG		
Hexachlorobutadiene	*	0.27961	0.27962	0.0	AVRG	*	
4-Chloro-3-methylphenol	*	0.37178	0.36933	0.7	AVRG	*	
1-Methylnaphthalene		0.6552	0.65429	0.1	AVRG		
Hexachlorocyclopentadiene	#	45	54.7	21.6	LINR	#	0.53569
2,4,6-Trichlorophenol	*	0.42048	0.43954	4.5	AVRG	*	
2,4,5-Trichlorophenol		0.45505	0.4768	4.8	AVRG		
2-Chloronaphthalene		1.1811	1.206	2.1	AVRG		
2-Nitroaniline		0.41099	0.4164	1.3	AVRG		
Acenaphthylene		1.84838	1.899	2.7	AVRG		
Dimethylphthalate		1.39542	1.451	4.0	AVRG		
2,6-Dinitrotoluene		0.31685	0.33168	4.7	AVRG		
Acenaphthene	*	1.06595	1.091	2.4	AVRG	*	
3-Nitroaniline		0.2999	0.30706	2.4	AVRG		
2,4-Dinitrophenol	#	45	48	6.7	LINR	#	0.20403
Dibenzofuran		1.63391	1.667	2.0	AVRG		
2,4-Dinitrotoluene		0.40146	0.41798	4.1	AVRG		
4-Nitrophenol	#	0.25167	0.26762	6.3	AVRG	#	
Fluorene		1.43792	1.47	2.2	AVRG		
4-Chlorophenyl-phenylether		0.75525	0.78188	3.5	AVRG		

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/20/12 Time: 1630

CCV ID: CCV1136491 Lab File ID: 8270CAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type		RRF
Diethylphthalate		1.37106	1.391	1.5	AVRG		
4-Nitroaniline		0.27236	0.29104	6.9	AVRG		
4,6-Dinitro-2-methylphenol		0.15321	0.16615	8.4	AVRG		
N-Nitrosodiphenylamine	*	0.51495	0.51336	0.3	AVRG	*	
4-Bromophenyl-phenylether		0.24814	0.25683	3.5	AVRG		
Hexachlorobenzene		0.27955	0.29348	5.0	AVRG		
Pentachlorophenol	*	45	43.4	3.6	LINR	*	0.17444
Phenanthrene		1.09648	1.098	0.1	AVRG		
Anthracene		0.97596	0.9817	0.6	AVRG		
Di-n-butylphthalate		1.3067	1.396	6.8	AVRG		
Fluoranthene	*	1.20121	1.257	4.6	AVRG	*	
Pyrene		1.05858	1.041	1.7	AVRG		
Butylbenzylphthalate		0.50783	0.53407	5.2	AVRG		
Benzo(a)anthracene		1.04684	1.058	1.1	AVRG		
Chrysene		1.03234	1.04	0.7	AVRG		
Bis(2-ethylhexyl)phthalate		0.70042	0.75023	7.1	AVRG		
Di-n-octylphthalate	*	45	43	4.4	LINR	*	1.428
Benzo(b)fluoranthene		1.13969	1.149	0.8	AVRG		
Benzo(k)fluoranthene		1.27504	1.163	8.8	AVRG		
Benzo(a)pyrene	*	1.04394	1.071	2.6	AVRG	*	
Indeno(1,2,3-cd)pyrene		1.17169	1.227	4.7	AVRG		
Dibenzo(a,h)anthracene		0.98759	1.039	5.2	AVRG		
Benzo(g,h,i)perylene		0.93301	0.96128	3.0	AVRG		
Carbazole		0.96763	0.99255	2.6	AVRG		
==========							
2-Fluorophenol(SURR)		1.27354	1.252	1.7	AVRG		
Phenol-d5(SURR)		1.61238	1.564	3.0	AVRG		
Nitrobenzene-d5(SURR)		0.5015	0.49431	1.4	AVRG		
2-Fluorobiphenyl(SURR)		1.42929	1.457	1.9	AVRG		
2,4,6-Tribromophenol(SURR)		0.24715	0.25547	3.4	AVRG		
p-Terphenyl-d14(SURR)		0.82253	0.8059	2.0	AVRG		

Average Used: 3.3

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/20/12 Time: 1653

CCV ID: CCV1136493 Lab File ID: BSCAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
3,3'-Dichlorobenzidine	0.42076	0.47049	11.8	AVRG	
Acetophenone	0.60121	0.57093	5.0	AVRG	
Caprolactam	0.16349	0.16839	3.0	AVRG	
1,1'-Biphenyl	1.48772	1.5	0.8	AVRG	
Atrazine	0.22031	0.23403	6.2	AVRG	
Benzaldehyde	1.24922	1.243	0.5	AVRG	

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/20/12 Time: 1714

CCV ID: CCV1136492 Lab File ID: AP9CAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Acetophenone	0.60121	0.60657	0.9	AVRG	
1,2,4,5-Tetrachlorobenzene	0.66217	0.66143	0.1	AVRG	

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/26/12 Time: 1704

CCV ID: CCV1137614 Lab File ID: 8270CAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type		RRF
Bis(2-chloroethyl)ether		1.26557	1.27	0.4	AVRG		
Phenol	*	1.8307	1.863	1.8	AVRG	*	
2-Chlorophenol		1.24099	1.254	1.0	AVRG		
2,2'-Oxybis(1-chloropropane)		1.63082	1.534	5.9	AVRG		
2-Methylphenol		1.0129	1.007	0.6	AVRG		
Hexachloroethane		0.64881	0.69258	6.7	AVRG		
N-Nitroso-di-n-propylamine	#	1.07132	1.048	2.2	AVRG	#	
4-Methylphenol		1.50631	1.504	0.2	AVRG		
Nitrobenzene		0.50245	0.49673	1.1	AVRG		
Isophorone		0.84206	0.84426	0.3	AVRG		
2-Nitrophenol	*	0.20284	0.21163	4.3	AVRG	*	
2,4-Dimethylphenol		0.29643	0.29673	0.1	AVRG		
Bis(2-chloroethoxy)methane		0.49157	0.49441	0.6	AVRG		
2,4-Dichlorophenol	*	0.34613	0.34974	1.0	AVRG	*	
Naphthalene		1.05678	1.051	0.5	AVRG		
4-Chloroaniline		0.43264	0.43055	0.5	AVRG		
2-Methylnaphthalene		0.71176	0.70873	0.4	AVRG		
Hexachlorobutadiene	*	0.27961	0.27903	0.2	AVRG	*	
4-Chloro-3-methylphenol	*	0.37178	0.35965	3.3	AVRG	*	
1-Methylnaphthalene		0.6552	0.6456	1.5	AVRG		
Hexachlorocyclopentadiene	#	45	53	17.8	LINR	#	0.51808
2,4,6-Trichlorophenol	*	0.42048	0.41809	0.6	AVRG	*	
2,4,5-Trichlorophenol		0.45505	0.47168	3.7	AVRG		
2-Chloronaphthalene		1.1811	1.168	1.1	AVRG		
2-Nitroaniline		0.41099	0.40725	0.9	AVRG		
Acenaphthylene		1.84838	1.818	1.6	AVRG		
Dimethylphthalate		1.39542	1.407	0.8	AVRG		
2,6-Dinitrotoluene		0.31685	0.33125	4.5	AVRG		
Acenaphthene	*	1.06595	1.047	1.8	AVRG	*	
3-Nitroaniline		0.2999	0.30806	2.7	AVRG		
2,4-Dinitrophenol	#	45	46.1	2.4	LINR	#	0.19417
Dibenzofuran		1.63391	1.63	0.2	AVRG		
2,4-Dinitrotoluene		0.40146	0.41203	2.6	AVRG		
4-Nitrophenol	#	0.25167	0.26201	4.1	AVRG	#	
Fluorene		1.43792	1.439	0.1	AVRG		
4-Chlorophenyl-phenylether		0.75525	0.74802	1.0	AVRG		

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/26/12 Time: 1704

CCV ID: CCV1137614 Lab File ID: 8270CAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type		RRF
Diethylphthalate		1.37106	1.356	1.1	AVRG		
4-Nitroaniline		0.27236	0.29475	8.2	AVRG		
4,6-Dinitro-2-methylphenol		0.15321	0.16308	6.4	AVRG		
N-Nitrosodiphenylamine	*	0.51495	0.51571	0.1	AVRG	*	
4-Bromophenyl-phenylether		0.24814	0.25118	1.2	AVRG		
Hexachlorobenzene		0.27955	0.28682	2.6	AVRG		
Pentachlorophenol	*	45	44.2	1.8	LINR	*	0.1779
Phenanthrene		1.09648	1.093	0.3	AVRG		
Anthracene		0.97596	0.97478	0.1	AVRG		
Di-n-butylphthalate		1.3067	1.364	4.4	AVRG		
Fluoranthene	*	1.20121	1.237	3.0	AVRG	*	
Pyrene		1.05858	1.073	1.4	AVRG		
Butylbenzylphthalate		0.50783	0.53366	5.1	AVRG		
Benzo(a)anthracene		1.04684	1.064	1.6	AVRG		
Chrysene		1.03234	1.053	2.0	AVRG		
Bis(2-ethylhexyl)phthalate		0.70042	0.73274	4.6	AVRG		
Di-n-octylphthalate	*	45	42.3	6.0	LINR	*	1.403
Benzo(b)fluoranthene		1.13969	1.165	2.2	AVRG		
Benzo(k)fluoranthene		1.27504	1.142	10.4	AVRG		
Benzo(a)pyrene	*	1.04394	1.084	3.8	AVRG	*	
Indeno(1,2,3-cd)pyrene		1.17169	1.235	5.4	AVRG		
Dibenzo(a,h)anthracene		0.98759	1.037	5.0	AVRG		
Benzo(g,h,i)perylene		0.93301	0.97633	4.6	AVRG		
Carbazole		0.96763	1.003	3.7	AVRG		
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2-Fluorophenol(SURR)		1.27354	1.278	0.4	AVRG		
Phenol-d5(SURR)		1.61238	1.58	2.0	AVRG		
Nitrobenzene-d5(SURR)		0.5015	0.49444	1.4	AVRG		
2-Fluorobiphenyl(SURR)		1.42929	1.43	0.0	AVRG		
2,4,6-Tribromophenol(SURR)		0.24715	0.24384	1.3	AVRG		
p-Terphenyl-d14(SURR)		0.82253	0.81285	1.2	AVRG		

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/26/12 Time: 1725

CCV ID: CCV1137617 Lab File ID: BSCAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
3,3'-Dichlorobenzidine	0.42076	0.47532	13.0	AVRG	
Acetophenone	0.60121	0.5766	4.1	AVRG	
Caprolactam	0.16349	0.16338	0.1	AVRG	
1,1'-Biphenyl	1.48772	1.489	0.1	AVRG	
Atrazine	0.22031	0.22707	3.1	AVRG	
Benzaldehyde	1.24922	1.234	1.2	AVRG	

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SEMI-VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID: SMSD04 CalibrationDate: 11/26/12 Time: 1746

CCV ID: CCV1137615 Lab File ID: AP9CAL4.d Init. Calib. Date Begin: 11/14/12 End: 11/15/12

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF for SPCC(#) = 0.05 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Acetophenone	0.60121	0.61097	1.6	AVRG	
1,2,4,5-Tetrachlorobenzene	0.66217	0.66051	0.3	AVRG	

Inorganics

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Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

B The reported value obtained was less than the RL but greater than or equal to the MDL.

E The reported value obtained was over calibration or linear range.

U The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

U The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.

M Duplicate injection precision was not met (two analyses of the same sample did not agree).

N Spiked sample recovery not within control limits.

E Serial Dilution percent difference not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA).

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

***** Duplicate analysis not within control limits.

+ Correlation coefficient for the MSA is less than 0.995.

X The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can apear in the same field.

M (Method) Qualifier - Enter one of the following:

P ICP
A Flame AA
F Furnace AA
CV Manual Cold Vapor AA
TC Total Organic Carbon
AS Semi-Automated Spectrophotometric
CA Midi-Distillation Spectrophotometric
T Titrimetric
C Manual Spectrophotometric
GR Gravimetric
NR Analyte was not required by your lab

Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

A Post Digestion Spike.

L Serial Dilution.

Metals Data Package

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CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW6010B

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3050B.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met with the exception of:

Post Digestion Spike 350761801A was analyzed with the soil samples on 11/28/12. The following analyte(s) were recovered below criteria: Lead at 55.4 % with criteria of (80-120).
Post Digestion Spike 350760007A was analyzed with the soil samples on 11/21/12. The following analyte(s) were recovered below criteria: Lead at 77.2 % with criteria of (80-120).

The PDS are associated with the QC of a different SDG. The LCS/LCSD pass all quality control criteria. No further action was taken.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met with the exception of:

Serial Dilution 350761602L was analyzed with the soil samples on 11/21/12. The following analyte(s) exceeded criteria: Lead at 14 % with criteria of (10).
Samples coded accordingly.

The most probable cause for the Serial Dilution exceeding limits is sample matrix due to the fact that the LCS/LCSD pass all quality control criteria. No further action was taken.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Sample FM0126C-GS-SP required a 2X dilution due to high concentration of the following analyte(s): Lead.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: _____

Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: DATE: 11/29/2012

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW7471A

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

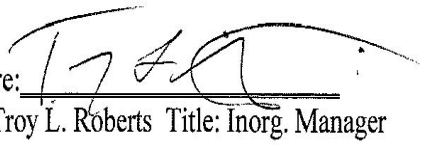
Sample CV0362B-CS required a 2X dilution due to high concentration of the following analyte(s): Mercury.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3507616

Client: OTIE

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED: DATE: 11/29/2012

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site

Lab Code : PEL Case No.: SDG No.: 3507616

SOW No.:

EPA Sample No	Lab Sample ID
CV0041B-CS	350761602
CV0043C-CS	350761605
FM0263C-CS-SP	350761610
FM0126C-GS-SP	350761613
FM0126C-GS-SPDL1	350761613DL1
CV0699B-CS	350761615

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before application of background corrections?	Yes/No	No

Comments:

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Metals Inorganic Sample Data

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0041B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761602

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 83.7 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.7			P		0.38	0.761
7440-39-3	Barium	127			P		0.122	7.61
7440-43-9	Cadmium	0.632			P		0.038	0.38
7440-47-3	Chromium	21.3			P		0.122	0.761
7439-92-1	Lead	183		E	P		0.259	0.609
7439-97-6	Mercury	0.119			CV		0.00392	0.035
7782-49-2	Selenium	7.72			P		0.304	1.52
7440-22-4	Silver	1.14	U		P		0.122	1.14

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0043C-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761605

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 76.6 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.9			P		0.558	1.12
7440-39-3	Barium	87			P		0.178	11.2
7440-43-9	Cadmium	0.822			P		0.0558	0.558
7440-47-3	Chromium	30.3			P		0.178	1.12
7439-92-1	Lead	117			P		0.379	0.893
7439-97-6	Mercury	0.101			CV		0.0043	0.0383
7782-49-2	Selenium	2.23	U		P		0.446	2.23
7440-22-4	Silver	1.67	U		P		0.178	1.67

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0263C-CS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761610

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 77.9 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	18.2			P		0.637	1.27
7440-39-3	Barium	189			P		0.204	12.7
7440-43-9	Cadmium	0.637	U		P		0.0637	0.637
7440-47-3	Chromium	31.6			P		0.204	1.27
7439-92-1	Lead	166			P		0.433	1.02
7439-97-6	Mercury	0.166			CV		0.00418	0.0373
7782-49-2	Selenium	2.55	U		P		0.509	2.55
7440-22-4	Silver	1.91	U		P		0.204	1.91

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0126C-GS-SP

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 71.8 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.1			P		0.63	1.26
7440-39-3	Barium	95.4			P		0.201	12.6
7440-43-9	Cadmium	1.41			P		0.063	0.63
7440-47-3	Chromium	29.3			P		0.201	1.26
7439-97-6	Mercury	0.121			CV		0.00404	0.036
7782-49-2	Selenium	2.52	U		P		0.504	2.52
7440-22-4	Silver	1.89	U		P		0.201	1.89

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FM0126C-GS-SPDL1

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761613DL1

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 71.8 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-92-1	Lead	712			P		0.856	2.01

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

CV0699B-CS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 350761615

Level:(low/med) LOW Date Received: 11/16/2012

PercentSolids: 80.8 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	12.4			P		0.514	1.03
7440-39-3	Barium	89.7			P		0.164	10.3
7440-43-9	Cadmium	0.514	U		P		0.0514	0.514
7440-47-3	Chromium	55.6			P		0.164	1.03
7439-92-1	Lead	63.8			P		0.349	0.822
7439-97-6	Mercury	0.12			CV		0.00393	0.0351
7782-49-2	Selenium	2.06	U		P		0.411	2.06
7440-22-4	Silver	1.54	U		P		0.164	1.54

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

Metals Inorganic QC Summary Data

301112 1331

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

154331MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154331MB

Level:(low/med) LOW Date Received: 11/20/2012

PercentSolids: 100 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	0.982	U		P		0.491	0.982
7440-39-3	Barium	9.82	U		P		0.157	9.82
7440-43-9	Cadmium	0.491	U		P		0.0491	0.491
7440-47-3	Chromium	0.982	U		P		0.157	0.982
7439-92-1	Lead	0.786	U		P		0.334	0.786
7782-49-2	Selenium	1.96	U		P		0.393	1.96
7440-22-4	Silver	1.47	U		P		0.157	1.47

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

154431MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154431MB

Level:(low/med) LOW Date Received: 11/20/2012

PercentSolids: 100 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-97-6	Mercury	0.0327	U		CV		0.00367	0.0327

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

154939MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 154939MB

Level:(low/med) LOW Date Received: 11/27/2012

PercentSolids: 100 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7440-38-2	Arsenic	0.988	U		P		0.494	0.988
7440-39-3	Barium	9.88	U		P		0.158	9.88
7440-43-9	Cadmium	0.494	U		P		0.0494	0.494
7440-47-3	Chromium	0.988	U		P		0.158	0.988
7439-92-1	Lead	0.79	U		P		0.336	0.79
7782-49-2	Selenium	1.98	U		P		0.395	1.98
7440-22-4	Silver	1.48	U		P		0.158	1.48

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

155043MB

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Lab Sample ID: 155043MB

Level:(low/med) LOW Date Received: 11/28/2012

PercentSolids: 100 Station ID:

CONCENTRATION UNITS: MG/KG

CAS NO.	ANALYTE	Concentration	C	Q	M		MDL	RL
7439-97-6	Mercury	0.0325	U		CV		0.00364	0.0325

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

301112 1331

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source: 47360
47792

Continuing Calibration Source: 47359
48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic	400	414.000	103.5	500	516.000	103.2	504.000	100.8	P
Barium	1200	1200.000	100.0	500	510.000	102.0	505.000	101.0	P
Cadmium	400	384.000	96.0	500	509.000	101.8	486.000	97.2	P
Chromium	400	401.000	100.2	500	512.000	102.4	505.000	101.0	P
Lead	400	401.000	100.2	500	516.000	103.2	500.000	100.0	P
Mercury	3	3.110	103.7	5	4.740	94.8	4.460	89.2	CV
Selenium	400	422.000	105.5	500	528.000	105.6	515.000	103.0	P
Silver	160	167.000	104.4	500	522.000	104.4	510.000	102.0	P

ICV IDs: CV= ICV1135933, P= ICV1135363

CCV1 IDs: CV= CCV1135935, P= CCV1135368

CCV2 IDs: CV= CCV1135947, P= CCV1135392

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source:

Continuing Calibration Source: 47359
48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic				500	500.000	100.0	506.000	101.2	P
Barium				500	499.000	99.8	507.000	101.4	P
Cadmium				500	485.000	97.0	489.000	97.8	P
Chromium				500	497.000	99.4	507.000	101.4	P
Lead				500	498.000	99.6	500.000	100.0	P
Mercury				5	5.540	110.8	5.330	106.6	CV
Selenium				500	512.000	102.4	516.000	103.2	P
Silver				500	502.000	100.4	520.000	104.0	P

ICV IDs:

CCV1 IDs: CV= CCV1135979, P= CCV1135404

CCV2 IDs: CV= CCV1135987, P= CCV1135416

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source: 47360

Continuing Calibration Source: 47359
48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic				500	506.000	101.2			P
Barium				500	509.000	101.8			P
Cadmium				500	479.000	95.8			P
Chromium				500	508.000	101.6			P
Lead				500	503.000	100.6			P
Mercury	3	3.130	104.3	5	5.190	103.8	5.260	105.2	CV
Selenium				500	524.000	104.8			P
Silver				500	517.000	103.4			P

ICV IDs: CV= ICV1137190

CCV1 IDs: CV= CCV1137192, P= CCV1135428

CCV2 IDs: CV= CCV1137204

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source: 47792

Continuing Calibration Source: 47359
48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic									P
Barium									P
Cadmium									P
Chromium									P
Lead	400	398.000	99.5	500	499.000	99.8	494.000	98.8	P
Mercury				5	5.110	102.2	5.270	105.4	CV
Selenium									P
Silver									P

ICV IDs: P= ICV1136309

CCV1 IDs: CV= CCV1137216, P= CCV1136314

CCV2 IDs: CV= CCV1137223, P= CCV1136332

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source:

Continuing Calibration Source: 47359
48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic									P
Barium									P
Cadmium									P
Chromium									P
Lead				500	500.000	100.0			P
Mercury				5	5.210	104.2	5.120	102.4	CV
Selenium									P
Silver									P

ICV IDs:

CCV1 IDs: CV= CCV1137225, P= CCV1136344

CCV2 IDs: CV= CCV1137233

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source: 47792

Continuing Calibration Source: 48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic	400	398.000	99.5	500	497.000	99.4	503.000	100.6	P
Barium	1200	1170.000	97.5	500	501.000	100.2	508.000	101.6	P
Cadmium	400	367.000	91.8	500	490.000	98.0	499.000	99.8	P
Chromium	400	389.000	97.2	500	503.000	100.6	509.000	101.8	P
Lead	400	382.000	95.5	500	493.000	98.6	496.000	99.2	P
Mercury									CV
Selenium	400	421.000	105.2	500	527.000	105.4	534.000	106.8	P
Silver	160	157.000	98.1	500	503.000	100.6	504.000	100.8	P

ICV IDs: P= ICV1137112

CCV1 IDs: P= CCV1137117

CCV2 IDs: P= CCV1137124

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Initial Calibration Source:

Continuing Calibration Source: 48348

Concentration Units: (ug/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic				500	503.000	100.6			P
Barium				500	506.000	101.2			P
Cadmium				500	475.000	95.0			P
Chromium				500	506.000	101.2			P
Lead				500	489.000	97.8			P
Mercury									CV
Selenium				500	533.000	106.6			P
Silver				500	511.000	102.2			P

ICV IDs:

CCV1 IDs: P= CCV1137136

CCV2 IDs:

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

301112 1331

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Preparation Blank Matrix (water/soil): SOIL

Preparation Blank Concentration Units (ug/L or mg/Kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)	C		C		C	Prepa-ration Blank	C	M
Arsenic	10.08	U	10.08	U	10.08	U	10.08	U	0.982	U	P
Barium	100.8	U	100.8	U	100.8	U	100.8	U	9.82	U	P
Cadmium	5.04	U	5.04	U	5.04	U	5.04	U	0.491	U	P
Chromium	10.08	U	10.08	U	10.08	U	10.08	U	0.982	U	P
Lead	8.064	U	8.064	U	8.064	U	8.064	U	0.786	U	P
Mercury	0.3326	U	0.3326	U	0.3326	U	0.3326	U	0.0327	U	CV
Selenium	20.16	U	20.16	U	20.16	U	20.16	U	1.96	U	P
Silver	15.12	U	15.12	U	15.12	U	15.12	U	1.47	U	P

ICB IDs: CV= ICB1135934, P= ICB1135364

CCB1 IDs: CV= CCB1135936, P= CCB1135369

CCB2 IDs: CV= CCB1135948, P= CCB1135393

CCB3 IDs: CV= CCB1135980, P= CCB1135405

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Preparation Blank Matrix (water/soil): SOIL

Preparation Blank Concentration Units (ug/L or mg/Kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)	C		C		C	Prepa-ration Blank	C	M
Arsenic			10.08	U	10.08	U			0.988	U	P
Barium			100.8	U	100.8	U			9.88	U	P
Cadmium			5.04	U	5.04	U			0.494	U	P
Chromium			10.08	U	10.08	U			0.988	U	P
Lead			8.064	U	8.064	U			0.79	U	P
Mercury			0.3326	U					0.0325	U	CV
Selenium			20.16	U	20.16	U			1.98	U	P
Silver			15.12	U	15.12	U			1.48	U	P

ICB IDs:

CCB1 IDs: CV= CCB1135988, P= CCB1135417

CCB2 IDs: P= CCB1135429

CCB3 IDs:

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BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)	C		C		C	Prepa-ration Blank	C	M
Arsenic											P
Barium											P
Cadmium											P
Chromium											P
Lead	8.064	U	8.064	U	8.064	U	8.064	U			P
Mercury	0.3326	U	0.3326	U	0.3326	U	0.3326	U			CV
Selenium											P
Silver											P

ICB IDs: CV= ICB1137191, P= ICB1136310

CCB1 IDs: CV= CCB1137193, P= CCB1136315

CCB2 IDs: CV= CCB1137205, P= CCB1136333

CCB3 IDs: CV= CCB1137217, P= CCB1136345

301112 1331

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3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No. SAS No: SDG No.: 3507616

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)	C		C		C	Prepa-ration Blank	C	M
Arsenic	10.08	U	10.08	U	10.08	U	10.08	U			P
Barium	100.8	U	100.8	U	100.8	U	100.8	U			P
Cadmium	5.04	U	5.04	U	5.04	U	5.04	U			P
Chromium	10.08	U	10.08	U	10.08	U	10.08	U			P
Lead	8.064	U	8.064	U	8.064	U	8.064	U			P
Mercury			0.3326	U	0.3326	U	0.3326	U			CV
Selenium	20.16	U	20.16	U	20.16	U	20.16	U			P
Silver	15.12	U	15.12	U	15.12	U	15.12	U			P

ICB IDs: P= ICB1137113

CCB1 IDs: CV= CCB1137224, P= CCB1137118

CCB2 IDs: CV= CCB1137226, P= CCB1137125

CCB3 IDs: CV= CCB1137234, P= CCB1137137

301112 1331

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

ICP ID#: ICAP2 ICSA Source: 48344

ICSAB Source: 48606

Concentration Units: UG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Arsenic	0	100	2.066	104.477	104.5			
Barium	0	500	-0.101	467.667	93.5			
Cadmium	0	1000	0.032	892.71	89.3			
Chromium	0	500	-0.035	470.659	94.1			
Lead	0	50	6.036	51.21	102.4			
Selenium	0	50	-0.063	57.751	115.5			
Silver	0	200	-0.028	200.331	100.2			

ICSA: ICS1135366

ICSAB: ICS1135367

301112 1331

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

ICP ID#: ICAP2 ICSA Source: 48344

ICSAB Source: 48606

Concentration Units: UG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Arsenic	0	100	-1.4	97.649	97.6			
Barium	0	500	1.011	484.394	96.9			
Cadmium	0	1000	0.049	872.222	87.2			
Chromium	0	500	0.917	481.003	96.2			
Lead	0	50	0.066	45.588	91.2			
Selenium	0	50	0.431	54.629	109.3			
Silver	0	200	1.1	207.34	103.7			

ICSA: ICS1136312

ICSAB: ICS1136313

301112 1331

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

ICP ID#: ICAP2 ICSA Source: 48344

ICSAB Source: 48606

Concentration Units: UG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Arsenic	0	100	0.402	98.276	98.3			
Barium	0	500	0.467	477.372	95.5			
Cadmium	0	1000	-0.106	878.91	87.9			
Chromium	0	500	0.534	477.977	95.6			
Lead	0	50	-1.384	45.84	91.7			
Selenium	0	50	5.861	42.975	86.0			
Silver	0	200	-0.041	199.711	99.9			

ICSA: ICS1137115

ICSAB: ICS1137116

301112 1331

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

350760007A

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	80 - 120	728.00		226.23		500	100.4		P
Barium	80 - 120	3800.00		2430.53		1500	91.2		P
Cadmium	80 - 120	472.00		8.88		500	92.6		P
Chromium	80 - 120	824.00		342.98		500	96.2		P
Lead	80 - 120	3330.00		2946.40		500	77.2		P
Selenium	80 - 120	534.00			U	500	106.8		P
Silver	80 - 120	212.00			U	200	105.8		P

Comments:

301112 1331

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

350761801A

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	80 - 120	738.00		226.94		500	102.2		P
Barium	80 - 120	4800.00		3483.55		1500	87.4		P
Cadmium	80 - 120	498.00		32.80		500	93.1		P
Chromium	80 - 120	865.00		374.19		500	98.2		P
Lead	80 - 120	3220.00		2948.17		500	55.4		P
Mercury	-	10.60		10.93		6	0.0		CV
Selenium	80 - 120	569.00			U	500	113.8		P
Silver	80 - 120	219.00			U	200	109.5		P

Comments:

301112 1331

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

350762201A

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	-	3.22			U	3	107.2		CV

Comments:

301112 1331

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

154333LCSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	20	51.1		48.9		4.4		P
Barium	20	149		144		3.4		P
Cadmium	20	48.3		46.5		3.8		P
Chromium	20	50.5		48.4		4.2		P
Lead	20	49.4		47.5		3.9		P
Selenium	20	51.7		50		3.3		P
Silver	20	20.2		19.6		3.0		P

Comments:

301112 1331

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6

DUPLICATES

EPA Sample No.

154433LCSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	0.299		0.311		3.9		CV

Comments:

301112 1331

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

154941LCSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	20	47.1		49.8		5.6		P
Barium	20	141		148		4.8		P
Cadmium	20	43.8		46.1		5.1		P
Chromium	20	47.4		50		5.3		P
Lead	20	45.3		47.4		4.5		P
Selenium	20	50.6		52.3		3.3		P
Silver	20	19.2		20.1		4.6		P

Comments:

301112 1331

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6

DUPLICATES

EPA Sample No.

155045LCSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 100 % Solids for Duplicate: 100

Concentration Units (mg/L or mg/kg): mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	20	0.297		0.311		4.6		CV

Comments:

301112 1331

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154332LCS

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 48292, 48316, 47580,

Aqueous LCS Source:

Analyte	Aqueous True	Aqueous Found	Aqueous %R	Solid (mg/Kg) True	Solid (mg/Kg) Found	C	Limits	%R
Arsenic				49.8	51.1		80 - 120	102.6
Barium				149	149		80 - 120	100.0
Cadmium				49.8	48.3		80 - 120	97.0
Chromium				49.8	50.5		80 - 120	101.4
Lead				49.8	49.4		80 - 120	99.2
Selenium				49.8	51.7		80 - 120	103.8
Silver				19.9	20.2		80 - 120	101.5

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

154333LCSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 48292, 48316, 47580,

Aqueous LCS Source:

Analyte	Aqueous True	Aqueous Found	Aqueous %R	Solid (mg/Kg) True	Solid (mg/Kg) Found	C	Limits	%R
Arsenic				49.4	48.9		80 - 120	99.0
Barium				148	144		80 - 120	97.3
Cadmium				49.4	46.5		80 - 120	94.1
Chromium				49.4	48.4		80 - 120	98.0
Lead				49.4	47.5		80 - 120	96.2
Selenium				49.4	50		80 - 120	101.2
Silver				19.8	19.6		80 - 120	99.0

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154432LCS

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 47360

Aqueous LCS Source:

	Aqueous			Solid (mg/Kg)				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.293	0.299		80 - 120	102.0

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154433LCSD

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 47360

Aqueous LCS Source:

	Aqueous			Solid (mg/Kg)				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.299	0.311		80 - 120	104.0

301112 1331

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154940LCS

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 48292, 48316, 47580,

Aqueous LCS Source:

Analyte	Aqueous True	Aqueous Found	Aqueous %R	Solid (mg/Kg) True	Solid (mg/Kg) Found	C	Limits	%R
Arsenic				48.6	47.1		80 - 120	96.9
Barium				146	141		80 - 120	96.6
Cadmium				48.6	43.8		80 - 120	90.1
Chromium				48.6	47.4		80 - 120	97.5
Lead				48.6	45.3		80 - 120	93.2
Selenium				48.6	50.6		80 - 120	104.1
Silver				19.4	19.2		80 - 120	99.0

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LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 154941LCSD

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 48292, 48316, 47580,

Aqueous LCS Source:

Analyte	Aqueous True	Aqueous Found	Aqueous %R	Solid (mg/Kg) True	Solid (mg/Kg) Found	C	Limits	%R
Arsenic				49.1	49.8		80 - 120	101.4
Barium				147	148		80 - 120	100.7
Cadmium				49.1	46.1		80 - 120	93.9
Chromium				49.1	50		80 - 120	101.8
Lead				49.1	47.4		80 - 120	96.5
Selenium				49.1	52.3		80 - 120	106.5
Silver				19.6	20.1		80 - 120	102.6

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20 | 155044LCS

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 47360

Aqueous LCS Source:

	Aqueous			Solid (mg/Kg)				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.29	0.297		80 - 120	102.4

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.

155045LCSD

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 20

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Solid LCS Source: 47360

Aqueous LCS Source:

	Aqueous			Solid (mg/Kg)				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Mercury				0.298	0.311		80 - 120	104.4

301112 1331

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9

SERIAL DILUTIONS

EPA Sample No.

350761602L

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	167.51		190.00		13		P
Barium	1669.69		1790.00		7.2		P
Cadmium	8.31			U			P
Chromium	280.47		304.00		8.4		P
Lead	2401.57		2750.00		14	E	P
Selenium	101.51			U			P
Silver		U		U			P

Comments:

301112 1331

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9

SERIAL DILUTIONS

EPA Sample No.

350761801L

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	226.94		241.00		6.2		P
Barium	3483.55		3600.00		3.3		P
Cadmium	32.80		32.10		2.1		P
Chromium	374.19		385.00		2.9		P
Lead	2948.17		3130.00		6.2		P
Mercury	10.93		10.90		0.26		CV
Selenium		U		U			P
Silver		U		U			P

Comments:

301112 1331

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SERIAL DILUTIONS

EPA Sample No.

350762201L

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Matrix: Soil Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Mercury		U		U			CV

Comments:

301112 1331

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10

METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

ICP ID Number : ICAP2

Furnace AA ID Number :

Analyte	Wave-length (nm)	Raw MDL (UG/L)	CRDL (mg/Kg)	MDL (mg/Kg)	Verification Date	M
Arsenic	188.979	5.53	1	0.5	7/13/2012	P
Barium	233.527	1.7696	10	0.16	7/13/2012	P
Cadmium	226.502	0.553	0.5	0.05	7/13/2012	P
Chromium	267.716	1.7696	1	0.16	7/13/2012	P
Lead	220.353	3.7604	0.8	0.34	7/13/2012	P
Selenium	196.026	4.424	2	0.4	7/13/2012	P
Silver	328.068	1.7696	1.5	0.16	7/13/2012	P

Comments:

301112 1332

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10

METHOD DETECTION LIMITS

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

ICP ID Number :

Furnace AA ID Number : FIMS

Analyte	Wave-length (nm)	Raw MDL (UG/L)	CRDL (mg/Kg)	MDL (mg/Kg)	Verification Date	M
Mercury	253.7	0.037148	0.033	0.0037	10/17/2012	CV

Comments:

301112 1332

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11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No.: SDG No.: 3507616

ICP ID Number : ICAP2 Date: 3/20/2010

Analyte	Wave-length	Interelement Correction Factors for: Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg
Barium	233.527		32.186100												
Chromium	267.716						44.618000								

Comments:

301112 1332

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11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No.: SDG No.: 3507616

ICP ID Number : ICAP2 Date: 3/20/2010

Analyte	Wave-length	Interelement Correction Factors for: Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Barium	233.527													
Chromium	267.716						14.340200							

Comments:

301112 1332

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ICP LINEAR RANGES (SEMI-ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 200514

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

ICP ID NUMBER : ICAP2 DATE : 12/8/2009

Analyte	Integ. Time (sec.)	Concentration UG/L	M
Arsenic	1	5000	P
Barium	1	5000	P
Cadmium	1	5000	P
Chromium	1	5000	P
Lead	1	5000	P
Selenium	1	5000	P
Silver	1	500	P

Comments:

301112 1332

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Method : 6010

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
154331MB	20 Nov 12	0.509	
154332LCS	20 Nov 12	0.502	
154333LCSD	20 Nov 12	0.506	
CV0041B-CS	20 Nov 12	0.785	
CV0043C-CS	20 Nov 12	0.585	
CV0699B-CS	20 Nov 12	0.602	
FM0126C-GS-SP	20 Nov 12	0.553	

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Method : 6010

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
154939MB	27 Nov 12	0.506	
154940LCS	27 Nov 12	0.514	
154941LCSD	27 Nov 12	0.509	
FM0263C-CS-SP	27 Nov 12	0.504	

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PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Method : 7471

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
154431MB	20 Nov 12	0.252	
154432LCS	20 Nov 12	0.256	
154433LCSD	20 Nov 12	0.251	
CV0041B-CS	20 Nov 12	0.282	
CV0043C-CS	20 Nov 12	0.281	
CV0699B-CS	20 Nov 12	0.291	
FM0126C-GS-SP	20 Nov 12	0.319	

301112 1332

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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 1356

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Method : 7471

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
155043MB	28 Nov 12	0.254	
155044LCS	28 Nov 12	0.259	
155045LCSD	28 Nov 12	0.252	
FM0263C-CS-SP	28 Nov 12	0.284	

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : ICAP2 Method : P

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																																				
				AG	AL	AS	B	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN							
CAL01	1	0:02		X		X		X			X			X											X		X													
CAL02	1	0:08						X			X																												
CAL03	1	0:14		X		X		X			X			X											X		X													
CAL04	1	0:20		X		X		X			X			X											X		X													
CAL05	1	0:25		X		X		X			X			X											X		X													
CAL06	1	0:31				X		X			X			X											X		X													
ICV1135363	1	0:55		X		X		X			X			X											X		X													
ICB1135364	1	1:01		X		X		X			X			X											X		X													
ZZZZZZ	1	1:07																																						
ICS1135366	1	1:13		X		X		X			X			X											X		X													
ICS1135367	1	1:18		X		X		X			X			X											X		X													
CCV1135368	1	1:24		X		X		X			X			X											X		X													
CCB1135369	1	1:29		X		X		X			X			X											X		X													
ZZZZZZ	1	1:45																																						
ZZZZZZ	1	1:51																																						
ZZZZZZ	1	1:57																																						
ZZZZZZ	1	2:02																																						
ZZZZZZ	5	2:08																																						
ZZZZZZ	1	2:15																																						
ZZZZZZ	1	2:20																																						
ZZZZZZ	1	2:25																																						
ZZZZZZ	1	2:31																																						
ZZZZZZ	1	2:37																																						
ZZZZZZ	1	2:42																																						
ZZZZZZ	1	2:47																																						
ZZZZZZ	1	2:53																																						
ZZZZZZ	1	2:59																																						
ZZZZZZ	1	3:04																																						
ZZZZZZ	1	3:09																																						
ZZZZZZ	1	3:15																																						
ZZZZZZ	1	3:21																																						
ZZZZZZ	1	3:26																																						
ZZZZZZ	5	3:31																																						
ZZZZZZ	1	3:37																																						

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : ICAP2 Method : P

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																												
				AG	AL	AS	B	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
ZZZZZZ	1	3:42																														
CCV1135392	1	3:47		X		X		X			X			X											X		X					
CCB1135393	1	3:53		X		X		X			X			X											X		X					
ZZZZZZ	1	3:59																														
ZZZZZZ	1	4:04																														
ZZZZZZ	5	4:09																														
ZZZZZZ	1	4:15																														
ZZZZZZ	1	4:20																														
ZZZZZZ	1	4:25																														
ZZZZZZ	1	4:30																														
154331MB	1	4:36		X		X		X			X			X											X		X					
154332LCS	1	4:42		X		X		X			X			X											X		X					
154333LCSD	1	4:47		X		X		X			X			X											X		X					
CCV1135404	1	4:53		X		X		X			X			X											X		X					
CCB1135405	1	4:58		X		X		X			X			X											X		X					
ZZZZZZ	1	5:04																														
ZZZZZZ	5	5:09																														
ZZZZZZ	1	5:15																														
ZZZZZZ	1	5:20																														
350760007A	1	5:26		X		X		X			X			X											X		X					
ZZZZZZ	1	5:31																														
ZZZZZZ	1	5:36																														
ZZZZZZ	1	5:42																														
ZZZZZZ	5	5:47																														
ZZZZZZ	1	5:53																														
CCV1135416	1	5:58		X		X		X			X			X											X		X					
CCB1135417	1	6:03		X		X		X			X			X											X		X					
ZZZZZZ	1	6:09																														
ZZZZZZ	1	6:15																														
ZZZZZZ	1	6:20																														
CV0041B-CS	1	6:26		X		X		X			X			X											X		X					
350761602L	5	6:31		X		X		X			X			X											X		X					
CV0043C-CS	1	6:37		X		X		X			X			X											X		X					
FM0126C-GS-SP	1	6:42		X		X		X			X			X													X					

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : ICAP2 Method : P

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																																		
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN						
CV0699B-CS	1	6:47		X		X	X			X			X											X		X												
ZZZZZZ	1	6:53																																				
ZZZZZZ	1	6:58																																				
CCV1135428	1	7:03		X		X	X			X			X											X		X												
CCB1135429	1	7:09		X		X	X			X			X											X		X												
CAL01	1	11:08		X		X	X			X			X											X		X												
CAL02	1	11:14					X			X																												
CAL03	1	11:20		X		X	X			X			X											X		X												
CAL04	1	11:27		X		X	X			X			X											X		X												
CAL05	1	11:32		X		X	X			X			X											X		X												
CAL06	1	11:37				X	X			X			X											X		X												
ICV1136309	1	12:04		X		X	X			X			X											X		X												
ICB1136310	1	12:09		X		X	X			X			X											X		X												
ZZZZZZ	1	12:15																																				
ICS1136312	1	12:22		X		X	X			X			X											X		X												
ICS1136313	1	12:27		X		X	X			X			X											X		X												
CCV1136314	1	12:32		X		X	X			X			X											X		X												
CCB1136315	1	12:42		X		X	X			X			X											X		X												
ZZZZZZ	1	13:09																																				
ZZZZZZ	1	13:15																																				
ZZZZZZ	1	13:20																																				
ZZZZZZ	1	13:23																																				
ZZZZZZ	1	13:28																																				
ZZZZZZ	1	13:34																																				
ZZZZZZ	1	13:40																																				
ZZZZZZ	5	13:46																																				
ZZZZZZ	1	13:52																																				
ZZZZZZ	1	13:58																																				
ZZZZZZ	1	14:03																																				
ZZZZZZ	1	14:09																																				
ZZZZZZ	1	14:15																																				
ZZZZZZ	1	14:20																																				
ZZZZZZ	1	14:26																																				
ZZZZZZ	1	14:33																																				

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : ICAP2 Method : P

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																																		
				AG	AL	AS	B	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN					
CCV1136332	1	14:35		X		X		X			X			X											X		X											
CCB1136333	1	14:41		X		X		X			X			X											X		X											
ZZZZZZ	1	14:47																																				
ZZZZZZ	1	14:53																																				
FM0126C-GS-SPDL1	2	14:59																							X													
ZZZZZZ	20	15:04																																				
ZZZZZZ	20	15:11																																				
ZZZZZZ	20	15:17																																				
ZZZZZZ	20	15:23																																				
ZZZZZZ	20	15:30																																				
ZZZZZZ	20	15:36																																				
ZZZZZZ	5	15:42																																				
CCV1136344	1	15:48		X		X		X			X			X											X		X											
CCB1136345	1	15:54		X		X		X			X			X											X		X											
ZZZZZZ	5	16:00																																				
ZZZZZZ	5	16:06																																				
ZZZZZZ	5	16:12																																				
ZZZZZZ	5	16:19																																				
ZZZZZZ	5	16:25																																				
ZZZZZZ	1	16:31																																				
ZZZZZZ	1	16:37																																				
ZZZZZZ	1	16:44																																				
ZZZZZZ	1	16:50																																				
ZZZZZZ	1	16:56																																				
ZZZZZZ	1	17:03																																				
ZZZZZZ	1	17:05																																				
ZZZZZZ	1	17:10																																				
ZZZZZZ	1	17:14																																				
ZZZZZZ	1	17:20																																				
ZZZZZZ	1	17:26																																				
ZZZZZZ	1	17:32																																				
ZZZZZZ	1	17:37																																				
ZZZZZZ	1	17:42																																				
ZZZZZZ	1	17:46																																				

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : ICAP2 Method : P

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																																					
				AG	AL	AS	B	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN								
CAL01	1	9:23		X		X		X			X			X											X		X														
CAL02	1	9:30						X			X																													
CAL03	1	9:36		X		X		X			X			X											X		X														
CAL04	1	9:42		X		X		X			X			X											X		X														
CAL05	1	9:47		X		X		X			X			X											X		X														
CAL06	1	9:53				X		X			X			X											X		X														
ICV1137112	1	10:27		X		X		X			X			X											X		X														
ICB1137113	1	10:33		X		X		X			X			X											X		X														
ZZZZZZ	1	10:39																																						
ICS1137115	1	10:45		X		X		X			X			X											X		X														
ICS1137116	1	10:50		X		X		X			X			X											X		X														
CCV1137117	1	10:56		X		X		X			X			X											X		X														
CCB1137118	1	11:01		X		X		X			X			X											X		X														
ZZZZZZ	2	11:26																																						
ZZZZZZ	5	11:32																																						
ZZZZZZ	2	11:38																																						
ZZZZZZ	2	11:43																																						
ZZZZZZ	5	11:49																																						
CCV1137124	1	11:54		X		X		X			X			X											X		X														
CCB1137125	1	11:59		X		X		X			X			X											X		X														
154939MB	1	12:05		X		X		X			X			X											X		X														
154940LCS	1	12:12		X		X		X			X			X											X		X														
154941LCSD	1	12:17		X		X		X			X			X											X		X														
ZZZZZZ	1	12:22																																						
350761801L	5	12:28		X		X		X			X			X											X		X														
ZZZZZZ	1	12:33																																						
ZZZZZZ	1	12:39																																						
350761801A	1	12:44		X		X		X			X			X											X		X														
ZZZZZZ	1	12:49																																						
FM0263C-CS-SP	1	12:55		X		X		X			X			X											X		X														
CCV1137136	1	13:00		X		X		X			X			X											X		X														
CCB1137137	1	13:05		X		X		X			X			X											X		X														
ZZZZZZ	1	13:12																																						
ZZZZZZ	1	13:17																																						

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : ICAP2 Method : P

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																												
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
ZZZZZZ	1	13:22																														
ZZZZZZ	1	13:28																														
ZZZZZZ	1	13:33																														
ZZZZZZ	1	13:38																														
ZZZZZZ	5	13:44																														
ZZZZZZ	1	13:49																														
ZZZZZZ	1	13:54																														
ZZZZZZ	1	14:00																														
ZZZZZZ	1	14:05																														
ZZZZZZ	1	14:10																														
ZZZZZZ	1	14:14																														
ZZZZZZ	1	14:20																														
ZZZZZZ	1	14:25																														
ZZZZZZ	1	14:31																														
ZZZZZZ	1	14:36																														
ZZZZZZ	1	14:41																														
ZZZZZZ	1	14:47																														
ZZZZZZ	1	14:52																														
ZZZZZZ	1	14:58																														
ZZZZZZ	1	15:03																														
ZZZZZZ	1	15:08																														
ZZZZZZ	1	15:14																														
ZZZZZZ	1	15:19																														
ZZZZZZ	1	15:23																														

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : FIMS Method : CV

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																																
				AG	AL	AS	B	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN				
CAL01	1	12:09															X																				
CAL02	1	12:11															X																				
CAL03	1	12:13															X																				
CAL04	1	12:14															X																				
CAL05	1	12:16															X																				
CAL06	1	12:18															X																				
ZZZZZZ	1	12:20																																			
ZZZZZZ	1	12:22																																			
ICV1135933	1	12:27															X																				
ICB1135934	1	12:28															X																				
CCV1135935	1	12:30															X																				
CCB1135936	1	12:32															X																				
154431MB	1	12:34															X																				
154432LCS	1	12:36															X																				
154433LCSD	1	12:37															X																				
ZZZZZZ	1	12:39																																			
ZZZZZZ	1	12:41																																			
ZZZZZZ	1	12:43																																			
ZZZZZZ	1	12:45																																			
ZZZZZZ	1	12:46																																			
ZZZZZZ	1	12:48																																			
ZZZZZZ	1	12:50																																			
CCV1135947	1	12:52															X																				
CCB1135948	1	12:54															X																				
ZZZZZZ	1	12:55																																			
ZZZZZZ	1	12:57																																			
ZZZZZZ	1	12:59																																			
ZZZZZZ	1	13:01																																			
ZZZZZZ	1	13:03																																			
ZZZZZZ	1	13:04																																			
ZZZZZZ	1	13:06																																			
ZZZZZZ	1	13:08																																			
ZZZZZZ	1	13:10																																			
ZZZZZZ	1	13:12																																			

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : FIMS Method : CV

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																												
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
ZZZZZZ	1	13:13																														
ZZZZZZ	1	13:15																														
ZZZZZZ	1	13:17																														
ZZZZZZ	1	13:19																														
ZZZZZZ	1	13:21																														
ZZZZZZ	1	13:22																														
ZZZZZZ	5	13:24																														
ZZZZZZ	1	13:26																														
ZZZZZZ	1	13:28																														
ZZZZZZ	1	13:30																														
ZZZZZZ	1	13:39																														
ZZZZZZ	1	13:40																														
ZZZZZZ	1	13:42																														
ZZZZZZ	1	13:44																														
ZZZZZZ	1	13:46																														
ZZZZZZ	1	13:48																														
ZZZZZZ	5	13:49																														
ZZZZZZ	1	13:51																														
ZZZZZZ	1	13:53																														
ZZZZZZ	1	13:55																														
CCV1135979	1	14:53														X																
CCB1135980	1	14:54														X																
CV0041B-CS	1	14:56														X																
CV0043C-CS	1	14:58														X																
FM0126C-GS-SP	1	15:00														X																
CV0699B-CS	1	15:02														X																
350762201L	5	15:04														X																
350762201A	1	15:05														X																
CCV1135987	1	15:07														X																
CCB1135988	1	15:09														X																
CAL01	1	12:47														X																
CAL02	1	12:49														X																
CAL03	1	12:50														X																
CAL04	1	12:52														X																

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : FIMS Method : CV

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																																
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	KI	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN					
CAL05	1	12:54														X																					
CAL06	1	12:56														X																					
ICV1137190	1	12:58														X																					
ICB1137191	1	13:00														X																					
CCV1137192	1	13:01														X																					
CCB1137193	1	13:03														X																					
155043MB	1	13:05														X																					
155044LCS	1	13:07														X																					
155045LCSD	1	13:09														X																					
ZZZZZZ	1	13:10																																			
ZZZZZZ	1	13:12																																			
ZZZZZZ	1	13:14																																			
ZZZZZZ	1	13:16																																			
ZZZZZZ	1	13:18																																			
ZZZZZZ	1	13:20																																			
ZZZZZZ	1	13:21																																			
CCV1137204	1	13:23														X																					
CCB1137205	1	13:25														X																					
ZZZZZZ	1	13:27																																			
ZZZZZZ	1	13:28																																			
ZZZZZZ	1	13:30																																			
ZZZZZZ	1	13:32																																			
ZZZZZZ	1	13:34																																			
ZZZZZZ	1	13:36																																			
ZZZZZZ	1	13:37																																			
ZZZZZZ	1	13:39																																			
ZZZZZZ	1	13:41																																			
ZZZZZZ	1	13:43																																			
CCV1137216	1	13:45														X																					
CCB1137217	1	13:46														X																					
ZZZZZZ	1	13:48																																			
ZZZZZZ	1	13:50																																			
FM0263C-CS-SP	1	13:52														X																					
ZZZZZZ	5	13:54																																			

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ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 35th Avenue Removal Site 2005148 13

Lab Code : PEL Case No.: SAS No: SDG No.: 3507616

Instrument ID Number : FIMS Method : CV

Start Date : 11/21/2012 End Date : 11/28/2012

EPA Sample No.	D/F	Time	%R	Analytes																												
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
ZZZZZZ	1	13:56																														
CCV1137223	1	13:57														X																
CCB1137224	1	13:59														X																
CCV1137225	1	14:31														X																
CCB1137226	1	14:33														X																
ZZZZZZ	2	14:35																														
ZZZZZZ	2	14:36																														
ZZZZZZ	2	14:38																														
ZZZZZZ	1	14:40																														
350761801L	10	14:42														X																
350761801A	2	14:43														X																
CCV1137233	1	14:45														X																
CCB1137234	1	14:47														X																

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Chain of Custody Documentation

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SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☒ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 175 Metro Center Blvd, Warwick, RI 02886, (401) 732-3400

Special Handling:
TAT- Indicate Date Needed: 14 days
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Liman Krebs
Oneida Total Integrated Ent.
1320 Tennestone Circle, Ste 100
Marietta, GA 30066
Telephone #: 678-355-6412
Project Mgr. Russell Henderson

Invoice To: Accounts Payable
Oneida Total Integrated Ent.
1033 N. Mayfair Road Ste 200
Milwaukee, WI 53226
P.O. No.: _____ RQN: _____

Project No.: 2005148-1356
Site Name: 35th Avenue Removal Site
Location: Birmingham State: AL
Sampler(s): R. Stubbs, J. Partap, A. Davis

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	DRO (SW)	RCRA 8	TCL SVOC
01	CVØØ41A-CS	11/14/12	1025	CS	SO				1	X		
02	CVØØ41B-CS	11/14/12	1045	CS	SO				2	X	X	
03	CVØØ43A-CS	11/14/12	1125	CS	SO				1	X		
04	CVØØ43B-CS	11/14/12	1150	CS	SO				1	X		
05	CVØØ43C-CS	11/14/12	1225	CS	SO				2	X	X	X
06	CVØ192A-CS	11/14/12	0900	CS	SO				1	X		
07	CVØ192B-CS	11/14/12	0930	CS	SO				1	X		
08	FMØ263A-CS-SD	11/14/12	~~0915~~ 0932	LA CS	SO				1	X		
09	FMØ263B-CS-SD	11/14/12	~~1005~~ 1005	LA CS	SO				1	X		
10	FMØ263C-CS-SD	11/14/12	10:56	CS	SO				1	X	X	

Added per client mb 11/20/12

Relinquished by:	Received by:	Date:	Time:	Temp°C
L Krebs		11/16/2012	10:02	1.0
				3.8

☒ EDD Format SEDD
☒ E-mail to LKrebs@one.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☒ Level IV
☐ Other _____

State-specific reporting standards: _____

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SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☒ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 175 Metro Center Blvd, Warwick, RI 02886, (401) 732-3400

Special Handling:
TAT- Indicate Date Needed: 14 days
· All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: Lisa Krebs
Oneida Total Integrated Ent.
1320 Kennestone Circle, Ste 100
Marietta, GA 30066
Telephone #: 678-355-6412
Project Mgr. Russell Henderson

Invoice To: Accounts Payable
Oneida Total Integrated Ent.
1033 N. Mayfair Road, Ste 200
Milwaukee, WI 53226
P.O. No.: _____ RQN: _____

Project No.: 200548-1356
Site Name: 35th Avenue Removal Site
Location: Birmingham State: AL
Sampler(s): R. Stubbs, J. Partap, A. Davis

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PAH (SIM)	PCBA & TCL SVOC
11	FMØ126A-CSSD	11/14/12	1153	CS	SO			1		X	
12	FMØ126B-CSSD	11/14/12	1214	CS	SO			1		X	
13	FMØ126C-GSSD	11/14/12	1208	GS	SO			2		X	X X
14	CVØ699A-CS	11/14/12	1130	CS	SO			1		X	
15	CVØ699B-CS	11/14/12	1205	CS	SO			2		X	X
16	CVØ699C-CS	11/14/12	1227	CS	SO			1		X	
17	FMØ210A-CS	11/14/12	0919	CS	SO			1		X	
18	FMØ210B-CS	11/14/12	0950	CS	SO			1		X	
19	FMØ210C-CS	11/14/12	1015	CS	SO			1		X	
20	CVØ362A-CS	11/14/12	1530	CS	SO			1		X	

Relinquished by:	Received by:	Date:	Time:	Temp°C
LK Krebs		11/16/2012	10:02	4.0
				3.8

☒ EDD Format SEDD
☒ E-mail to LKrebs@one.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☒ Level IV
☐ Other _____
State-specific reporting standards: _____

3507616
210

From: (678) 355-5550
Limari Krebs
OTIE
1220 Kennestone Circle
Suite 106
Marietta, GA 30066

Origin ID: NCQA

FedEx Express

J12201209200325

Ship Date: 15NOV12
ActWgt: 55.0 LB
CAD: 2139088/INET3300

Delivery Address Bar Code

SHIP TO: (813) 888-9507 BILL SENDER

Sample Receipt
PEL
8405 Benjamin Road
Suite A
TAMPA, FL 33634

Ref # 1356-Smptolab
Invoice #
PO #
Dept #

2 of 2

FRI - 16 NOV A1
PRIORITY OVERNIGHT

MPS# 7940 8975 2140
0263

Mstr# 7940 8975 2839 0201

XJ TPFA

33634
FL-US
TPA

515G3/EE3B/AA44

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (678) 355-5550
Limari Krebs
OTIE
1220 Kennestone Circle
Suite 106
Marietta, GA 30066

Origin ID: NCQA

FedEx Express

J12201209200325

Ship Date: 15NOV12
ActWgt: 55.0 LB
CAD: 2139088/INET3300

Delivery Address Bar Code

Ref # 1356-Smptolab
Invoice #
PO #
Dept #

SHIP TO: (813) 888-9507 BILL SENDER

Sample Receipt
PEL
8405 Benjamin Road
Suite A
TAMPA, FL 33634

1 of 2

FRI - 16 NOV A1
PRIORITY OVERNIGHT

TRK# 7940 8975 2839
0201

MASTER

XJ TPFA

33634
FL-US
TPA

515G3/EE3B/AA44

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Receipt Confirmation Sheet

Client Information

SDG:	3507616	**Level:**	4
Client:	OTIE	**Date Rec'd:**	11/16/2012 10:02:00 AM
Profile:	91122	**Due Date:**	11/28/2012
Project:	35th Avenue Superfund Site	**Profile Name:**	35th Avenue Superfund Site

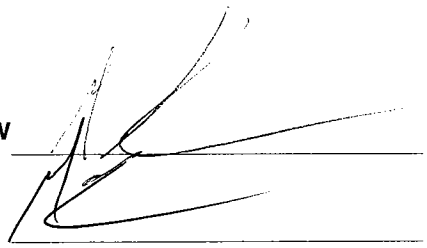
Sample Verification

Samples/Cooler Secure?	Yes	**COC Present?**	Yes
Temperature of Samples:	4.0	**All Samples on COC accounted For?**	Yes
Number of Coolers Received:	2	**All Samples Rec'd Intact?**	Yes
Temp Gun ID:	101722663	**Sample Vol. Sufficient For Analysis**	Yes
pH Verified?	No	**Samples Rec'd W/I Hold Time?**	Yes
pH WNL?	No	**Are All Samples to be Analyzed?**	Yes
Samples Received By:	Fed-Ex	**Correct Sample Containers?**	Yes
Tracking Number:	794089752140	**COC Comments written on COC?**	Yes
Profile Picked By:	MG	**Samplers Initials on COC?**	Yes
Soil Origin (Domestic/Foreign):	Domestic	**Sample Date/Time Indicated?**	Yes
Site Location/Project on COC?	Yes	**TAT Requested:**	STD
Client Project # on COC?	Yes	**Client Requests Verbal Results?**	No
Project Mgr. Indicated on COC?	Yes	**Client Requests Faxed Results?**	No
COC relinquished/Dated by Client?	Yes	**Specific Subcontract Indicated?**	No
COC Received/Dated by SA?	Yes	**Written on Outside Lab Board?**	No
Written on Internal COC?	Yes	**Radioactivity Check?**	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW



PEER REVIEW

Client: OTIE

WONo: 3507616 Profile Name: 35th Avenue Superfu Profile #: 91122

MATRIX S

Sample #	Bottle	Parameter		Check	Received	Date
01	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:08 PM
01	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:03 AM
01	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:57:28 PM
01	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:39 PM
01	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:20 PM
02	002	6010	Metals	In	Cfryman	11/16/2012 2:45:08 PM
02	002	6010	Metals	Out	Justin Bowman	11/20/2012 4:57:10 PM
02	002	6010	Metals	In	Justin Bowman	11/20/2012 11:31:57 PM
02	002	7471	Mercury	In	Cfryman	11/16/2012 2:45:08 PM
02	002	7471	Mercury	Out	Justin Bowman	11/20/2012 4:57:10 PM
02	002	7471	Mercury	In	Justin Bowman	11/20/2012 11:31:58 PM
02	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:08 PM
02	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:06 AM
02	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:57:31 PM
02	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:48 PM
02	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:24 PM
03	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:08 PM
03	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:09 AM
03	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:57:36 PM
03	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:49 PM
03	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:25 PM
04	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM
04	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:11 AM
04	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:57:47 PM
04	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:49 PM
04	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:27 PM

05	002	6010	Metals	In	Cfryman	11/16/2012 2:45:09 PM
05	002	6010	Metals	Out	Justin Bowman	11/20/2012 4:57:19 PM
05	002	6010	Metals	In	Justin Bowman	11/20/2012 11:32:00 PM
05	002	7471	Mercury	In	Cfryman	11/16/2012 2:45:09 PM
05	002	7471	Mercury	Out	Justin Bowman	11/20/2012 4:57:19 PM
05	002	7471	Mercury	In	Justin Bowman	11/20/2012 11:32:00 PM
05	001	8270	GCMS semivolatile	Out	Robert Nickel	11/20/2012 9:05:40 AM
05	001	8270	GCMS semivolatile	In	Agnes Tapolyai	11/20/2012 6:59:40 PM
05	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM
05	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:13 AM
05	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:57:52 PM
05	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:50 PM
05	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:29 PM
06	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM
06	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:15 AM
06	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:57:55 PM
06	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:51 PM
06	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:31 PM
07	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM
07	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:16 AM
07	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:01 PM
07	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:51 PM
07	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:34 PM
08	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM
08	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:18 AM
08	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:04 PM
08	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:52 PM
08	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:36 PM
09	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM

09	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:20 AM
09	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:08 PM
09	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:52 PM
09	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:44 PM
10	001	6010	Metals	Out	Justin Bowman	11/27/2012 8:29:51 PM
10	001	6010	Metals	In	Justin Bowman	11/27/2012 9:26:03 PM
10	001	7471	Mercury	Out	Justin Bowman	11/28/2012 8:12:58 AM
10	001	7471	Mercury	In	Justin Bowman	11/28/2012 10:21:42 AM
10	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:09 PM
10	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:22 AM
10	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:12 PM
10	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:54 PM
10	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:47 PM
11	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:10 PM
11	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:26 AM
11	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:15 PM
11	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:57 PM
11	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:50 PM
12	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:10 PM
12	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:28 AM
12	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:18 PM
12	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:41:59 PM
12	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:53 PM
13	002	6010	Metals	In	Cfryman	11/16/2012 2:45:10 PM
13	002	6010	Metals	Out	Justin Bowman	11/20/2012 4:57:25 PM
13	002	6010	Metals	In	Justin Bowman	11/20/2012 11:32:02 PM
13	002	7471	Mercury	In	Cfryman	11/16/2012 2:45:10 PM
13	002	7471	Mercury	Out	Justin Bowman	11/20/2012 4:57:25 PM
13	002	7471	Mercury	In	Justin Bowman	11/20/2012 11:32:02 PM
13	001	8270	GCMS semivolatile	Out	Robert Nickel	11/20/2012 9:05:50 AM

13	001	8270	GCMS semivolatile	In	Agnes Tapolyai	11/20/2012 6:59:27 PM
13	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:10 PM
13	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:31 AM
13	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:23 PM
13	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:00 PM
13	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:57 PM
14	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:10 PM
14	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:33 AM
14	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:31 PM
14	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:01 PM
14	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:58 PM
15	002	6010	Metals	In	Cfryman	11/16/2012 2:45:10 PM
15	002	6010	Metals	Out	Justin Bowman	11/20/2012 4:57:05 PM
15	002	6010	Metals	In	Justin Bowman	11/20/2012 11:32:03 PM
15	002	7471	Mercury	In	Cfryman	11/16/2012 2:45:11 PM
15	002	7471	Mercury	Out	Justin Bowman	11/20/2012 4:57:05 PM
15	002	7471	Mercury	In	Justin Bowman	11/20/2012 11:32:03 PM
15	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:10 PM
15	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:36 AM
15	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:34 PM
15	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:02 PM
15	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:29:58 PM
16	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:11 PM
16	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:38 AM
16	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:38 PM
16	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:05 PM
16	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:30:00 PM
17	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:11 PM
17	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:40 AM

17	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:42 PM
17	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:07 PM
17	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:30:02 PM
18	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:11 PM
18	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:42 AM
18	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:45 PM
18	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:09 PM
18	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:30:04 PM
19	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:11 PM
19	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:44 AM
19	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:48 PM
19	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:11 PM
19	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:30:06 PM
20	001	8270_SIM	GCMS semivolatile SIM	In	Cfryman	11/16/2012 2:45:11 PM
20	001	8270_SIM	GCMS semivolatile SIM	Out	Robert Nickel	11/20/2012 9:06:46 AM
20	001	8270_SIM	GCMS semivolatile SIM	In	Agnes Tapolyai	11/20/2012 6:58:52 PM
20	001	Dry Weight	Dry Weight	Out	Devon Thompson	11/19/2012 4:42:13 PM
20	001	Dry Weight	Dry Weight	In	Devon Thompson	11/19/2012 6:30:08 PM

Addendum

Letter of Acceptance

Customer Name:	Oneida Total Integrated Enterprises
Date and Time Received:	11/16/2012 10:02:00 AM
Date to be Reported:	12/1/2012
Laboratory Submission Number/SDG:	3507616

Project: 35th Avenue Removal Site 2005148 1356

Samples: The submission consisted of 20 samples, including QC, with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 6010, 7471, 8270, 8270_SIM.

Sample Custody/COC discrepancies:

None.

Notes:

Temp 4.0, 3.8 C
6010 RCRA 8

Distribution of Report to:

Oneida Total Integrated Enterprises
Attn: Limari Krebs
(W): 678-355-5550
(F): 770-528-0167

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. Spectrum Analytical letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials.

Log-in Report

Level: 4

Total of: 50 analyses on 20 samples (including QC) *19-Nov-12*

Report/SDG #: 3507616

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0041A-CS	350761601		S	11/14/2012 10:25:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0041B-CS	350761602		S	11/14/2012 10:45:00 AM	11/16/2012 10:02:00 AM

Method		
6010	Metals	6010
7471	Mercury	7471
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0043A-CS	350761603		S	11/14/2012 11:25:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0043B-CS	350761604		S	11/14/2012 11:50:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3507616

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0043C-CS	350761605		S	11/14/2012 12:25:00 PM	11/16/2012 10:02:00 AM

Method		
6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0192A-CS	350761606		S	11/14/2012 9:00:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0192B-CS	350761607		S	11/14/2012 9:30:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0263A-CS-SP	350761608		S	11/14/2012 9:32:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0263B-CS-SP	350761609		S	11/14/2012 10:25:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3507616

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0263C-CS-SP	350761610		S	11/14/2012 10:56:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0126A-CS-SP	350761611		S	11/14/2012 11:53:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0126B-CS-SP	350761612		S	11/14/2012 12:14:00 PM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0126C-GS-SP	350761613		S	11/14/2012 12:08:00 PM	11/16/2012 10:02:00 AM

Method		
6010	Metals	6010
7471	Mercury	7471
8270	GCMS semivolatile	8270
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0699A-CS	350761614		S	11/14/2012 11:30:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3507616

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0699B-CS	350761615		S	11/14/2012 12:05:00 PM	11/16/2012 10:02:00 AM

Method		
6010	Metals	6010
7471	Mercury	7471
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0699C-CS	350761616		S	11/14/2012 12:27:00 PM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0210A-CS	350761617		S	11/14/2012 9:19:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0210B-CS	350761618		S	11/14/2012 9:50:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FM0210C-CS	350761619		S	11/14/2012 10:15:00 AM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

Report/SDG #: 3507616

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
CV0362A-CS	350761620		S	11/14/2012 3:30:00 PM	11/16/2012 10:02:00 AM

Method		
8270_SIM	GCMS semivolatile SIM	8270 SIM
Dry Weight	Dry Weight	Dry Weight

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Tuesday, November 20, 2012 4:47 PM
To: 'Limari Krebs'
Subject: RE: 35 Avenue: LOA3507620.pdf, LOA3507618.pdf, LOA3507616.pdf

Limari,
I will check but we can add the metals to these 2 samples regardless.
Mark

-----Original Message-----
From: Limari Krebs [mailto:LKrebs@otie.com]
Sent: Tuesday, November 20, 2012 4:44 PM
To: Mark Gudnason [Tampa]
Subject: RE: 35 Avenue: LOA3507620.pdf, LOA3507618.pdf, LOA3507616.pdf

Mark:

Here some other issues we noticed with the COC:

Were there 4 oz jars for samples:
CV0359A-CS
FM0263C-CS-SP

If so, could you add RCRA 8 Metals analysis to these samples. We usually pair up the unsieved and sieved fractions for RCRA 8 metals analysis.

Thanks,

Limari Krebs
START Sr. Chemist

Oneida Total Integrated Enterprises (OTIE) 1220 Kennestone Circle, Suite 106 Marietta, GA 30066 678.355.5550 x 5703 office
678.255.6412 cell
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-----Original Message-----
From: Mark Gudnason [Tampa] [mailto:mgudnason@pelab.com]
Sent: Monday, November 19, 2012 4:54 PM
To: Russell Henderson; Limari Krebs
Subject: 35 Avenue: LOA3507620.pdf, LOA3507618.pdf, LOA3507616.pdf

<<LOA3507620.pdf>>
<<LOA3507618.pdf>> Go <<LOA3507616.pdf>> od afternoon.
Please review the attached LOA (Letter of Acceptance) for accuracy and let me know of any changes prior to reporting.

Thank you,
Mark

The message is ready to be sent with the following file or link attachments:

LOA3507620.pdf
LOA3507618.pdf

LOA3507616.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Friday, November 30, 2012 4:44 PM
To: 'Limari Krebs'; 'Russell Henderson'
Subject: FW: 3507616-SIM-OTIE

Good afternoon.
This will be in the case narrative for the referenced method and SDG. Let me know if you have any questions or concerns.

A. Calibration:

All acceptance criteria were met with the exception of:

Note that the Continuing Calibration Verification sample CCV1136644 analyzed on 11/26/12 exceeded the 40% Maximum Difference criteria for Dibenzo(a,h) anthracene at -50.8%. However this CCV was only associated with the two samples which required a dilution for compounds other than Dibenzo(a,h) anthracene. No further action was taken.

All other acceptance criteria were met.

A. Blanks:

All acceptance criteria were met.

B. Surrogates:

All acceptance criteria were met with the exception of:

Sample CV0192B-CS was recovered below criteria for the following surrogate: Benzo(e) pyrene-d12 at 46.7 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample CV0699C-CS was recovered below criteria for the following surrogate: Benzo(e) pyrene-d12 at 27.4 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0210A-CS was recovered below criteria for the following surrogate: Benzo(e) pyrene-d12 at 16.9 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0210B-CS was recovered below criteria for the following surrogate: Benzo(e) pyrene-d12 at 41.9 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Sample FM0263C-CS-SP was recovered below criteria for the following surrogate: Benzo (e)pyrene-d12 at 37.3 % with criteria of (50-140). The surrogate recovery was only slightly below the target range, and the low surrogate recovery was probably due to the sample matrix. Therefore no further action was taken.

Samples coded accordingly.

The following samples had surrogates that were diluted out: CV0699B-CSDL1, FM0210C-CSDL1, FM0263A-CS-SPDL1, FM0263B-CS-SPDL1, FM0263C-CS-SPDL1.

C. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

No spikes requested by client.

D. Internal Standards:

All acceptance criteria were met.

E. Samples:

Sample analysis proceeded normally.

Sample CV0699B-CS required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Pyrene. Both full and diluted runs are reported.

Sample FM0210C-CS required a 20X dilution due to high concentration of the following analyte: Fluoranthene. Both full and diluted runs are reported.

Sample FM0263A-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Sample FM0263B-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Sample FM0263C-CS-SP required a 20X dilution due to high concentration of the following analytes: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene. Both full and diluted runs are reported.

Note that sample FM0126C-GS-SP also had analytes present in the 8270SIM analysis that were above the high calibration of the 8270SIM method. However, the sample was also analyzed using the SW8270 method. The SW8270 method has a higher calibration range than the 8270SIM method, and the analytes that were high in the 8270SIM method were within the calibration range for the SW8270 method. Therefore no dilution was performed on the sample.

Mark Gudnason [Tampa]

From: Mark Gudnason [Tampa]
Sent: Monday, December 17, 2012 12:26 PM
To: 'Limari Krebs'
Cc: Renea Anglin; Russell Henderson
Subject: RE: Questions about Organics SDG 3507558

Limari,
We can revise the other SDGs to include the summary forms for MS/MSDs.

I will keep you posted on the revisions.

Mark

From: Limari Krebs [mailto:LKrebs@otie.com]
Sent: Monday, December 17, 2012 10:30 AM
To: Mark Gudnason [Tampa]
Cc: Renea Anglin; Russell Henderson
Subject: RE: Questions about Organics SDG 3507558

Mark:

Will you be revising the other SDGs to include the MS/MSD results as well?

Limari Krebs
START Sr. Chemist

Oneida Total Integrated Enterprises (OTIE)
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From: Mark Gudnason [Tampa] [mailto:mgudnason@pelab.com]
Sent: Friday, December 14, 2012 2:49 PM
To: Limari Krebs
Cc: Renea Anglin; Russell Henderson
Subject: RE: Questions about Organics SDG 3507558

Limari,

The revised EDD and report just posted and is available online.

Mark

From: Limari Krebs [mailto:LKrebs@otie.com]
Sent: Wednesday, December 12, 2012 11:43 AM

To: Mark Gudnason [Tampa]
Cc: Renea Anglin; Russell Henderson
Subject: Questions about Organics SDG 3507558

Mark:

The data validation group has brought up some questions with regards to SDG 3507558. Could you please take a look and provide a response to all in the email chain above?

1. Results for only one surrogate, benzo(a)pyrene-d12, were reported by the laboratory for the SW-846 8270D SIM analysis. Recovery of this surrogate did not meet laboratory control limits in all undiluted sample analyses, but one. According to the raw data, each sample was spiked with the surrogates benzo (e)pyrene-d12, fluoranthene-d10, and 2-methylnaphthalene-d2[1], but results for fluoranthene-d10 and 2-methylnaphthalene-d21 were not reported by the laboratory. If the laboratory had reported results for these two surrogates, qualification of most semivolatile data may possibility be avoided. Because only results for benzo(a)pyrene-d12 are reported, qualification of all data is based on the results of this one surrogate compound.

   Associated Target Compounds for Benzo (a) pyrene-d12 per June 2001 NFG:
   Benzo(b)fluoranthene
   Benzo(k)fluoranthene
   Benzo(a)pyrene
   Indeno(1,2,3-cd)pyrene
   Dibenzo(a,h)anthracene
   Benzo(g,h,i)perylene
   According to CLP NFG (June 2008), 2-Methylnaphthalene-d10 and fluoranthene-d10 are the surrogates to be used for SIM analysis.
   Associated Target Compounds for Fluoranthene-d10 and 2-Methylnapthalene-d10 per June 2008 NFG:

Fluoranthene-d10 (DMC)	2-Methylnapthalene-d10 (DMC)
Fluoranthene	Naphthalene
Pyrene	2-Methylnapthalene
Benzo(a)anthracene	Acenaphthylene
Chrysene	Acenaphthene
Benzo(b)fluoranthene	Fluorene
Benzo(k)fluoranthene	Pentachlorophenol
Benzo(a)pyrene	Phenanthrene
Indeno(1,2,3-cd)pyrene	Anthracene
Dibenzo(a,h)anthracene	
Benzo(g,h,i)perylene	

   It is recommended that results for the two above-mentioned surrogates be reported by the laboratory.

2. There are inconsistencies between the Extraction Log 8270 SIM Soil Ext (pages 230-237) and Standards Log (page 238-241) concerning the spiking levels used for the surrogates. According to Extraction Log 8270 SIM Soil Ext, 0.5 µg/L of 48541 (benzo(a)pyrene-d12) and 48187 were spiked into the samples. According to the Standards Log, standard 48541 consists of benzo(a)pyrene-d12 at a concentration of 0.6 µg/L. This difference may result in surrogate recoveries being even lower than that reported by the laboratory. The standard 48187 appears to consist of 2-methylnaphthalene-d10 and fluoroanthene-d10 at a concentration of 0.8 µg/ml. Results for 2-methylnaphthalene-d10 and fluoroanthene-d10 have not been reported by the laboratory (refer to issue 6).

3. MS/MSD results were not included. According to the Soil Extraction Log, sample CV0494A-CS was prepared for the PAH-SIM MS and MSD analysis; however, the analytical results were not included in the data package

Regards,

Limari Krebs
START Sr. Chemist

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[1] Standards Log reflect 2-methylnaphthalene-d10

Appendix

Raw Data Method 8270 SIM

SEQUENCE CHECK

SDG: 3507616 **Method:** 8270_SIM

Sample ID	Lab ID	Initial Cal Reference	File Name	Batch	Col	Instrument	Run Date	Dilution
DFTPP1135489	47701	N/A	DFTPP1.D	S3112012	1	SMSD03	11/20/12 16:50	1
STD1135485	47785	SMSD0311/20/12-1950~S3112012	SSCAL4.D	S3112012	1	SMSD03	11/20/12 17:27	1
STD1135483	47782	SMSD0311/20/12-1950~S3112012	SSCAL7.D	S3112012	1	SMSD03	11/20/12 17:52	1
STD1135480	47783	SMSD0311/20/12-1950~S3112012	SSCAL6.D	S3112012	1	SMSD03	11/20/12 18:15	1
STD1135477	47784	SMSD0311/20/12-1950~S3112012	SSCAL5.D	S3112012	1	SMSD03	11/20/12 18:39	1
STD1135471	47786	SMSD0311/20/12-1950~S3112012	SSCAL3.D	S3112012	1	SMSD03	11/20/12 19:02	1
STD1135468	47787	SMSD0311/20/12-1950~S3112012	SSCAL2.D	S3112012	1	SMSD03	11/20/12 19:26	1
STD1135465	47788	SMSD0311/20/12-1950~S3112012	SSCAL1.D	S3112012	1	SMSD03	11/20/12 19:50	1
SSC1135487	47789	SMSD0311/20/12-1950~S3112012	SSSEC.D	S3112012	1	SMSD03	11/20/12 20:13	1
DFTPP1137665	47701	N/A	DFTPP2.D	S3112112	1	SMSD03	11/21/12 18:18	1
CCV1137703	47785	SMSD0311/20/12-1950~S3112012	SSCCV2.D	S3112112	1	SMSD03	11/21/12 19:01	1
CV0041A-CS	350761601	SMSD0311/20/12-1950~S3112012	616-01.D	S3112112	1	SMSD03	11/21/12 19:44	1
CV0041B-CS	350761602	SMSD0311/20/12-1950~S3112012	616-02.D	S3112112	1	SMSD03	11/21/12 20:08	1
CV0043A-CS	350761603	SMSD0311/20/12-1950~S3112012	616-03.D	S3112112	1	SMSD03	11/21/12 20:31	1
CV0043B-CS	350761604	SMSD0311/20/12-1950~S3112012	616-04.D	S3112112	1	SMSD03	11/21/12 20:55	1
CV0192A-CS	350761606	SMSD0311/20/12-1950~S3112012	616-06.D	S3112112	1	SMSD03	11/21/12 21:18	1
CV0192B-CS	350761607	SMSD0311/20/12-1950~S3112012	616-07.D	S3112112	1	SMSD03	11/21/12 21:42	1
FM0263A-CS-SP	350761608	SMSD0311/20/12-1950~S3112012	616-08.D	S3112112	1	SMSD03	11/21/12 22:05	1
FM0263B-CS-SP	350761609	SMSD0311/20/12-1950~S3112012	616-09.D	S3112112	1	SMSD03	11/21/12 22:29	1
FM0263C-CS-SP	350761610	SMSD0311/20/12-1950~S3112012	616-10.D	S3112112	1	SMSD03	11/21/12 22:53	1
FM0126A-CS-SP	350761611	SMSD0311/20/12-1950~S3112012	616-11.D	S3112112	1	SMSD03	11/21/12 23:16	1
FM0126B-CS-SP	350761612	SMSD0311/20/12-1950~S3112012	616-12.D	S3112112	1	SMSD03	11/21/12 23:40	1
CV0699A-CS	350761614	SMSD0311/20/12-1950~S3112012	616-14.D	S3112112	1	SMSD03	11/22/12 00:04	1
CV0699B-CS	350761615	SMSD0311/20/12-1950~S3112012	616-15.D	S3112112	1	SMSD03	11/22/12 00:27	1
CV0699C-CS	350761616	SMSD0311/20/12-1950~S3112012	616-16.D	S3112112	1	SMSD03	11/22/12 00:51	1
FM0210A-CS	350761617	SMSD0311/20/12-1950~S3112012	616-17.D	S3112112	1	SMSD03	11/22/12 01:14	1
FM0210B-CS	350761618	SMSD0311/20/12-1950~S3112012	616-18.D	S3112112	1	SMSD03	11/22/12 01:38	1
FM0210C-CS	350761619	SMSD0311/20/12-1950~S3112012	616-19.D	S3112112	1	SMSD03	11/22/12 02:01	1
CV0362A-CS	350761620	SMSD0311/20/12-1950~S3112012	616-20.D	S3112112	1	SMSD03	11/22/12 02:25	1
DFTPP1136633	47701	N/A	DFTPP2.D	S3112612	1	SMSD03	11/26/12 17:56	1
CCV1136644	47785	SMSD0311/20/12-1950~S3112012	SSCCV1.D	S3112612	1	SMSD03	11/26/12 18:16	1
FM0263A-CS-SPDL1	350761608DL1	SMSD0311/20/12-1950~S3112012	61608D20.D	S3112612	1	SMSD03	11/26/12 22:42	20
FM0263B-CS-SPDL1	350761609DL1	SMSD0311/20/12-1950~S3112012	61609D20.D	S3112612	1	SMSD03	11/26/12 23:05	20
FM0263C-CS-SPDL1	350761610DL1	SMSD0311/20/12-1950~S3112012	61610D20.D	S3112612	1	SMSD03	11/26/12 23:29	20

SDG: 3507616 **Method:** 8270_SIM

Sample ID	Lab ID	Initial Cal Reference	File Name	Batch	Col	Instrument	Run Date	Dilution
CV0699B-CSDL1	350761615DL1	SMSD0311/20/12-1950~S3112012	61615D20.D	S3112612	1	SMSD03	11/26/12 23:52	20
FM0210C-CSDL1	350761619DL1	SMSD0311/20/12-1950~S3112012	61619D20.D	S3112612	1	SMSD03	11/27/12 00:16	20
DFTPP1135989	47137	N/A	DFTPP2.D	S41114SScal	1	SMSD04	11/14/12 19:35	1
STD1135484	47782	SMSD0411/14/12-2158~S41114SScal	SSCAL7.d	S41114SScal	1	SMSD04	11/14/12 19:53	1
STD1135481	47783	SMSD0411/14/12-2158~S41114SScal	SSCAL6.d	S41114SScal	1	SMSD04	11/14/12 20:14	1
STD1135478	47784	SMSD0411/14/12-2158~S41114SScal	SSCAL5.d	S41114SScal	1	SMSD04	11/14/12 20:35	1
STD1135474	47785	SMSD0411/14/12-2158~S41114SScal	SSCAL4.d	S41114SScal	1	SMSD04	11/14/12 20:56	1
STD1135472	47786	SMSD0411/14/12-2158~S41114SScal	SSCAL3.d	S41114SScal	1	SMSD04	11/14/12 21:17	1
STD1135469	47787	SMSD0411/14/12-2158~S41114SScal	SSCAL2.d	S41114SScal	1	SMSD04	11/14/12 21:38	1
STD1135466	47788	SMSD0411/14/12-2158~S41114SScal	SSCAL1.d	S41114SScal	1	SMSD04	11/14/12 21:58	1
SSC1135488	47789	SMSD0411/14/12-2158~S41114SScal	SSSEC.d	S41114SScal	1	SMSD04	11/14/12 22:19	1
DFTPP1136634	47137	N/A	DFTPP2.d	S4112612	1	SMSD04	11/26/12 16:26	1
CCV1136643	47785	SMSD0411/14/12-2158~S41114SScal	SSCAL4.d	S4112612	1	SMSD04	11/26/12 16:44	1
CV0043C-CS	350761605	SMSD0411/14/12-2158~S41114SScal	616-05.d	S4112612	1	SMSD04	11/26/12 19:28	1
FM0126C-GS-SP	350761613	SMSD0411/14/12-2158~S41114SScal	616-13.d	S4112612	1	SMSD04	11/26/12 19:48	1
DFTPP1137576	47137	N/A	112812DFTPP1.d	S411281P	1	SMSD04	11/28/12 14:54	1
CCV1137596	47785	SMSD0411/14/12-2158~S41114SScal	SSCCV1.d	S411281P	1	SMSD04	11/28/12 17:13	1
154206MB	154206MB	SMSD0411/14/12-2158~S41114SScal	11607MB.d	S411281P	1	SMSD04	11/28/12 17:54	1
154207LCS	154207LCS	SMSD0411/14/12-2158~S41114SScal	11607LCS.d	S411281P	1	SMSD04	11/28/12 18:15	1

3507616

Signature: Mark N. Jacobs
Name: Mark Jacobs Title: Chemist 11/30/2012 9:57:57

Analyst Posted: mjacobs Date

Signature: Brian C. Spann
Name: Brian C. Spann Title: Lab Director 11/30/2012 10:43:4

Analyst Reviewed: bspann Date

233

SEQUENCE CHECK

SDG: 3507616 **Method:** 8270_SIM

Sample ID	Lab ID	Initial Cal Reference	File Name	Batch	Col	Instrument	Run Date	Dilution
DFTPP1135489	47701	N/A	DFTPP1.D	S3112012	1	SMSD03	11/20/12 16:50	1
STD1135485	47785	SMSD0311/20/12-1950~S3112012	SSCAL4.D	S3112012	1	SMSD03	11/20/12 17:27	1
STD1135483	47782	SMSD0311/20/12-1950~S3112012	SSCAL7.D	S3112012	1	SMSD03	11/20/12 17:52	1
STD1135480	47783	SMSD0311/20/12-1950~S3112012	SSCAL6.D	S3112012	1	SMSD03	11/20/12 18:15	1
STD1135477	47784	SMSD0311/20/12-1950~S3112012	SSCAL5.D	S3112012	1	SMSD03	11/20/12 18:39	1
STD1135471	47786	SMSD0311/20/12-1950~S3112012	SSCAL3.D	S3112012	1	SMSD03	11/20/12 19:02	1
STD1135468	47787	SMSD0311/20/12-1950~S3112012	SSCAL2.D	S3112012	1	SMSD03	11/20/12 19:26	1
STD1135465	47788	SMSD0311/20/12-1950~S3112012	SSCAL1.D	S3112012	1	SMSD03	11/20/12 19:50	1
SSC1135487	47789	SMSD0311/20/12-1950~S3112012	SSSEC.D	S3112012	1	SMSD03	11/20/12 20:13	1
DFTPP1137665	47701	N/A	DFTPP2.D	S3112112	1	SMSD03	11/21/12 18:18	1
CCV1137703	47785	SMSD0311/20/12-1950~S3112012	SSCCV2.D	S3112112	1	SMSD03	11/21/12 19:01	1
CV0041A-CS	350761601	SMSD0311/20/12-1950~S3112012	616-01.D	S3112112	1	SMSD03	11/21/12 19:44	1
CV0041B-CS	350761602	SMSD0311/20/12-1950~S3112012	616-02.D	S3112112	1	SMSD03	11/21/12 20:08	1
CV0043A-CS	350761603	SMSD0311/20/12-1950~S3112012	616-03.D	S3112112	1	SMSD03	11/21/12 20:31	1
CV0043B-CS	350761604	SMSD0311/20/12-1950~S3112012	616-04.D	S3112112	1	SMSD03	11/21/12 20:55	1
CV0192A-CS	350761606	SMSD0311/20/12-1950~S3112012	616-06.D	S3112112	1	SMSD03	11/21/12 21:18	1
CV0192B-CS	350761607	SMSD0311/20/12-1950~S3112012	616-07.D	S3112112	1	SMSD03	11/21/12 21:42	1
FM0263A-CS-SP	350761608	SMSD0311/20/12-1950~S3112012	616-08.D	S3112112	1	SMSD03	11/21/12 22:05	1
FM0263B-CS-SP	350761609	SMSD0311/20/12-1950~S3112012	616-09.D	S3112112	1	SMSD03	11/21/12 22:29	1
FM0263C-CS-SP	350761610	SMSD0311/20/12-1950~S3112012	616-10.D	S3112112	1	SMSD03	11/21/12 22:53	1
FM0126A-CS-SP	350761611	SMSD0311/20/12-1950~S3112012	616-11.D	S3112112	1	SMSD03	11/21/12 23:16	1
FM0126B-CS-SP	350761612	SMSD0311/20/12-1950~S3112012	616-12.D	S3112112	1	SMSD03	11/21/12 23:40	1
CV0699A-CS	350761614	SMSD0311/20/12-1950~S3112012	616-14.D	S3112112	1	SMSD03	11/22/12 00:04	1
CV0699B-CS	350761615	SMSD0311/20/12-1950~S3112012	616-15.D	S3112112	1	SMSD03	11/22/12 00:27	1
CV0699C-CS	350761616	SMSD0311/20/12-1950~S3112012	616-16.D	S3112112	1	SMSD03	11/22/12 00:51	1
FM0210A-CS	350761617	SMSD0311/20/12-1950~S3112012	616-17.D	S3112112	1	SMSD03	11/22/12 01:14	1
FM0210B-CS	350761618	SMSD0311/20/12-1950~S3112012	616-18.D	S3112112	1	SMSD03	11/22/12 01:38	1
FM0210C-CS	350761619	SMSD0311/20/12-1950~S3112012	616-19.D	S3112112	1	SMSD03	11/22/12 02:01	1
CV0362A-CS	350761620	SMSD0311/20/12-1950~S3112012	616-20.D	S3112112	1	SMSD03	11/22/12 02:25	1
DFTPP1136633	47701	N/A	DFTPP2.D	S3112612	1	SMSD03	11/26/12 17:56	1
CCV1136644	47785	SMSD0311/20/12-1950~S3112012	SSCCV1.D	S3112612	1	SMSD03	11/26/12 18:16	1
FM0263A-CS-SPDL1	350761608DL1	SMSD0311/20/12-1950~S3112012	61608D20.D	S3112612	1	SMSD03	11/26/12 22:42	20
FM0263B-CS-SPDL1	350761609DL1	SMSD0311/20/12-1950~S3112012	61609D20.D	S3112612	1	SMSD03	11/26/12 23:05	20
FM0263C-CS-SPDL1	350761610DL1	SMSD0311/20/12-1950~S3112012	61610D20.D	S3112612	1	SMSD03	11/26/12 23:29	20

SDG: 3507616 **Method:** 8270_SIM

Sample ID	Lab ID	Initial Cal Reference	File Name	Batch	Col	Instrument	Run Date	Dilution
CV0699B-CSDL1	350761615DL1	SMSD0311/20/12-1950~S3112012	61615D20.D	S3112612	1	SMSD03	11/26/12 23:52	20
FM0210C-CSDL1	350761619DL1	SMSD0311/20/12-1950~S3112012	61619D20.D	S3112612	1	SMSD03	11/27/12 00:16	20
DFTPP1135989	47137	N/A	DFTPP2.D	S41114SScal	1	SMSD04	11/14/12 19:35	1
STD1135484	47782	SMSD0411/14/12-2158~S41114SScal	SSCAL7.d	S41114SScal	1	SMSD04	11/14/12 19:53	1
STD1135481	47783	SMSD0411/14/12-2158~S41114SScal	SSCAL6.d	S41114SScal	1	SMSD04	11/14/12 20:14	1
STD1135478	47784	SMSD0411/14/12-2158~S41114SScal	SSCAL5.d	S41114SScal	1	SMSD04	11/14/12 20:35	1
STD1135474	47785	SMSD0411/14/12-2158~S41114SScal	SSCAL4.d	S41114SScal	1	SMSD04	11/14/12 20:56	1
STD1135472	47786	SMSD0411/14/12-2158~S41114SScal	SSCAL3.d	S41114SScal	1	SMSD04	11/14/12 21:17	1
STD1135469	47787	SMSD0411/14/12-2158~S41114SScal	SSCAL2.d	S41114SScal	1	SMSD04	11/14/12 21:38	1
STD1135466	47788	SMSD0411/14/12-2158~S41114SScal	SSCAL1.d	S41114SScal	1	SMSD04	11/14/12 21:58	1
SSC1135488	47789	SMSD0411/14/12-2158~S41114SScal	SSSEC.d	S41114SScal	1	SMSD04	11/14/12 22:19	1
DFTPP1136634	47137	N/A	DFTPP2.d	S4112612	1	SMSD04	11/26/12 16:26	1
CCV1136643	47785	SMSD0411/14/12-2158~S41114SScal	SSCAL4.d	S4112612	1	SMSD04	11/26/12 16:44	1
CV0043C-CS	350761605	SMSD0411/14/12-2158~S41114SScal	616-05.d	S4112612	1	SMSD04	11/26/12 19:28	1
FM0126C-GS-SP	350761613	SMSD0411/14/12-2158~S41114SScal	616-13.d	S4112612	1	SMSD04	11/26/12 19:48	1
DFTPP1137576	47137	N/A	112812DFTPP1.d	S411281P	1	SMSD04	11/28/12 14:54	1
CCV1137596	47785	SMSD0411/14/12-2158~S41114SScal	SSCCV1.d	S411281P	1	SMSD04	11/28/12 17:13	1
154206MB	154206MB	SMSD0411/14/12-2158~S41114SScal	11607MB.d	S411281P	1	SMSD04	11/28/12 17:54	1
154207LCS	154207LCS	SMSD0411/14/12-2158~S41114SScal	11607LCS.d	S411281P	1	SMSD04	11/28/12 18:15	1

3507616

Signature: Mark W. Jacobs
Name: Mark Jacobs Title: Chemist 11/30/2012 9:57:57

Analyst Posted: mjacobs Date

Signature: Brian Spann
Name: Brian C. Spann Title: Lab Director 11/30/2012 10:43:4

Analyst Reviewed: bspann Date

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Extraction Method	3545

Extraction Log 8270 SIM Soil Ext

Batch ID: 11607

Start: 11/20/2012 9:00:00 AM
End: 11/21/2012 3:43:38 PM

Water Bath Temp: 70 °C

Thermometer ID: STBA **Balance ID:** P35923

Final

Batch ID: 11607

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350761601	1	CV0041A-CS	11/14/2012 10:25:00 AM	SAMPLE	NONE	BLACK	SOIL	25.14 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761602	1	CV0041B-CS	11/14/2012 10:45:00 AM	SAMPLE	NONE	BLACK	SOIL	25.31 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761603	1	CV0043A-CS	11/14/2012 11:25:00 AM	SAMPLE	NONE	BLACK	SOIL	25.06 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761604	1	CV0043B-CS	11/14/2012 11:50:00 AM	SAMPLE	NONE	BLACK	SOIL	25.08 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761605	1	CV0043C-CS	11/14/2012 12:25:00 PM	SAMPLE	NONE	BLACK	SOIL	25.33 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761606	1	CV0192A-CS	11/14/2012 9:00:00 AM	SAMPLE	NONE	BLACK	SOIL	25.03 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761607	1	CV0192B-CS	11/14/2012 9:30:00 AM	SAMPLE	NONE	BLACK	SOIL	25.27 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761608	1	FM0263A-CS-SP	11/14/2012 9:32:00 AM	SAMPLE	NONE	BLACK	SOIL	25.21 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761609	1	FM0263B-CS-SP	11/14/2012 10:25:00 AM	SAMPLE	NONE	BLACK	SOIL	25.29 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A

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Batch ID: 11607

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350761610	1	FM0263C-CS-SP	11/14/2012 10:56:00 AM	SAMPLE	NONE	BLACK	SOIL	25.79 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761611	1	FM0126A-CS-SP	11/14/2012 11:53:00 AM	SAMPLE	NONE	BLACK	SOIL	25.77 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761612	1	FM0126B-CS-SP	11/14/2012 12:14:00 PM	SAMPLE	NONE	BLACK	SOIL	25.61 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761613	1	FM0126C-GS-SP	11/14/2012 12:08:00 PM	SAMPLE	NONE	BLACK	SOIL	25.6 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761614	1	CV0699A-CS	11/14/2012 11:30:00 AM	SAMPLE	NONE	BLACK	SOIL	25.02 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761615	1	CV0699B-CS	11/14/2012 12:05:00 PM	SAMPLE	NONE	BLACK	SOIL	25.01 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761616	1	CV0699C-CS	11/14/2012 12:27:00 PM	SAMPLE	NONE	BLACK	SOIL	25.3 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761617	1	FM0210A-CS	11/14/2012 9:19:00 AM	SAMPLE	NONE	BLACK	SOIL	25.2 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761618	1	FM0210B-CS	11/14/2012 9:50:00 AM	SAMPLE	NONE	BLACK	SOIL	25.08 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761619	1	FM0210C-CS	11/14/2012 10:15:00 AM	SAMPLE	NONE	BLACK	SOIL	25.06 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
350761620	1	CV0362A-CS	11/14/2012 3:30:00 PM	SAMPLE	NONE	BLACK	SOIL	25.08 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A

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Batch ID: 11607

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
154206MB		154206MB		MB	NONE	TAN	SAND	20.19 G	1 mL		1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
154207LCS		154207LCS		LCS	NONE	TAN	SAND	20.22 G	1 mL		1mL 8270 SIM_Spike: 48086 @ PAH 0.5 ug/ml; 1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
154208MS	1	CV0043A-CSMS		MS	NONE	BLACK	SOIL	25.02 G	1 mL		1mL 8270 SIM_Spike: 48086 @ PAH 0.5 ug/ml; 1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A
154209MSD	1	CV0043A-CSMSD		MSD	NONE	BLACK	SOIL	25.01 G	1 mL		1mL 8270 SIM_Spike: 48086 @ PAH 0.5 ug/ml; 1mL 8270 SIM_Surrogate: 48560 @ 0.5 ug/ml;		N/A

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Batch ID: 11607

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive

Initial Solvent 48452

Final Solvent 48452

Cellulose Filter 46973

NaSO4 48592

Hydromatrix 48593

Sand 48589

ASE # 2

Name: Agnes Tapolyai Title: Prep Tech 11/21/2012 3:43:38 PM

Analyst Posted atapolyai Date

11/21/2012 5:37:00 PM

Peer Reviewed RBENNETT Date

11/29/2012 7:1

Analyst Reviewed nsubar Date

3507616

Comments:

Sample Comments

Lab ID	Client ID	Comments
154206MB	154206MB	
154207LCS	154207LCS	
154208MS	CV0043A-CSMS	
154209MSD	CV0043A-CSMSD	
350761601	CV0041A-CS	
350761602	CV0041B-CS	
350761603	CV0043A-CS	
350761604	CV0043B-CS	

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Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350761605		CV0043C-CS											
350761606		CV0192A-CS											
350761607		CV0192B-CS											
350761608		FM0263A-CS-SP											
350761609		FM0263B-CS-SP											
350761610		FM0263C-CS-SP											
350761611		FM0126A-CS-SP											
350761612		FM0126B-CS-SP											
350761613		FM0126C-GS-SP											
350761614		CV0699A-CS											
350761615		CV0699B-CS											
350761616		CV0699C-CS											
350761617		FM0210A-CS											
350761618		FM0210B-CS											
350761619		FM0210C-CS											
350761620		CV0362A-CS											

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
30687	8151_PCP_STK	Restek	A061936	8/1/2016	1 ML	9/9/2009	jwood

1000 UG/ML: Pentachlorophenol

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
40389	8151_PCP_STK	Ultra PH-180	CG-0917	4/30/2014	1 ML	3/23/2011	jacker

1000 UG/ML: Pentachlorophenol

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
43150	SIMSCAN_surr_stk	CIL-DLM-257-S	SCIF-014	12/18/2018	1 ML	9/22/2011	cabadia

200 UG/ML: Benzo(e)pyrene-D12

3507616

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45123	8310_RTK2MN_STK	Restek - 31285	A064100	12/31/2015	1 ML	2/24/2012	cabadia

1000 UG/ML: 2-Methylnaphthalene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45131	8310_CALMX5_STK	RESTEK - 31011	079674	3/30/2018	1 ML	2/24/2012	cabadia

2000 UG/ML: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45160	8310_AS1MN_STK	AccuStandard S-51	B6040092-1B	2/22/2014	1 ML	2/27/2012	cabadia

2000 UG/ML: 1-Methylnaphthalene

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45687	8270BNSURRSTK	NSI Solutions, Inc.	C-376-49	1/31/2014	1 ML	4/5/2012	cabadia

5000 UG/ML: 2-Fluorobiphenyl, Nitrobenzene-d5, p-Terphenyl-d14

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45900	8270_DFTPP_STK_1	NSI C-491	C-491-09	7/30/2014	1.5 ML	4/20/2012	cabadia

500 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46552	SVOA_2M_STK	CIL DLM-1332-S	SDAB-004	6/18/2020	1.2 ML	6/11/2012	cabadia

200 UG/ML: 2-Methylnaphthalene-d10

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46555	SVOA-Fd10_STK	CIL DLM-2140-S	SCJG-001	11/20/2019	1.2 ML	6/11/2012	cabadia

200 UG/ML: Fluoranthene-d10

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46967	DCM	Honeywell	DG265	7/18/2013	200 L	7/18/2012	treuter

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47137	DFTPP_std			1/31/2013	5 ML	7/31/2012	mjacobs

50 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol

STANDARDS LOG

COMPOSED OF:

45900: 500 UL 46967: 4500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47241	8310_ARHYDRO_STK	Restek 31458	A081951	6/30/2018	1 ML	8/7/2012	cabadia

1000 UG/ML: 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47247	8310_RTK1MN_STK	Restek 31283	A084039	10/31/2018	1 ML	8/7/2012	cabadia

1000 UG/ML: 1-Methylnaphthalene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47414	DCM	Honeywell	DG800	8/23/2013	200 L	8/23/2012	atapolyai

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47503	SS8270_ISTD			3/4/2013	2 ML	9/4/2012	nsubar

40 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10

COMPOSED OF:

~~46552: 400 UL~~ 46555: 400 UL ~~47414: UL~~

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47541	DCM	Honeywell	DG800	9/6/2013	200 L	9/6/2012	atapolyai

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47701	DFTPP_std			3/21/2013	5 ML	9/21/2012	nsubar

50 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol

COMPOSED OF:

45900: 500 UL 47541: 4500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47708	DCM	Honeywell	DG937	9/24/2013	200 L	9/24/2012	treuter

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47781	SS8270_TOP			4/2/2013	5 ML	10/2/2012	nsubar

10 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene

COMPOSED OF:

43150: 250 UL 47241: 50 UL 47247: 50 UL

3507616

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47782	SS8270_CAL7			3/4/2013	1 ML	10/2/2012	nsubar

0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
10 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene
20 UG/ML: Pentachlorophenol

COMPOSED OF:

30687: 20 UL 47503: 20 UL 47708: 0 UL 47781: 1000 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47783	SS8270_CAL6			3/4/2013	1 ML	10/2/2012	nsubar

0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
10 UG/ML: Pentachlorophenol
5 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene

STANDARDS LOG

COMPOSED OF:

30687: 10 UL 47503: 20 UL 47708: 490 UL 47781: 500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47784	SS8270_CAL5			3/4/2013	1 ML	10/2/2012	nsubar

0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
1 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene
7 UG/ML: Pentachlorophenol

COMPOSED OF:

30687: 7 UL 47503: 20 UL 47708: 900 UL 47781: 100 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47785	SS8270_CAL4			3/4/2013	1 ML	10/2/2012	nsubar

0.5 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene
0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
5 UG/ML: Pentachlorophenol

COMPOSED OF:

30687: 5 UL 47503: 20 UL 47708: 945 UL 47781: 50 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47786	SS8270_CAL3			3/4/2013	1 ML	10/2/2012	nsubar

0.1 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene
0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
2 UG/ML: Pentachlorophenol

COMPOSED OF:

30687: 2 UL 47503: 20 UL 47708: 985 UL 47781: 10 UL

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47787	SS8270_CAL2			3/4/2013	1 ML	10/2/2012	nsubar

0.05 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene
0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
1 UG/ML: Pentachlorophenol

COMPOSED OF:

30687: 1 UL 47503: 20 UL 47708: 994 UL 47781: 5 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47788	SS8270_CAL1			3/4/2013	1 ML	10/2/2012	nsubar

0.02 UG/ML: 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene
0.7 UG/ML: Pentachlorophenol
0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10

COMPOSED OF:

30687: 0.7 UL 47503: 20 UL 47708: 998 UL 47781: 2 UL

3507616

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47789	SS8270_SEC			3/4/2013	1 ML	10/2/2012	nsubar

0.5 UG/ML: 1-Methylnaphthalene, 2-Fluorobiphenyl, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene-D12, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Phenanthrene, p-Terphenyl-d14, Pyrene
0.8 UG/ML: 2-Methylnaphthalene-d10, Fluoranthene-d10
5 UG/ML: Pentachlorophenol

COMPOSED OF:

40389: 5 UL 43150: 2.5 UL 47503: 20 UL 47708: 950 UL 47791: 50 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47791	8270 SIM_INT SEC			4/2/2013	5 ML	10/2/2012	nsubar

10 UG/ML: 1-Methylnaphthalene, 2-Fluorobiphenyl, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Nitrobenzene-d5, Phenanthrene, p-Terphenyl-d14, Pyrene

STANDARDS LOG

COMPOSED OF:

45123: 50 UL 45131: 25 UL 45160: 25 UL 45687: 10 UL 47708: 4.89 ML

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\DFTPP1.D
Report Date: 30-Nov-2012 09:41

PEL Laboratories, Inc.

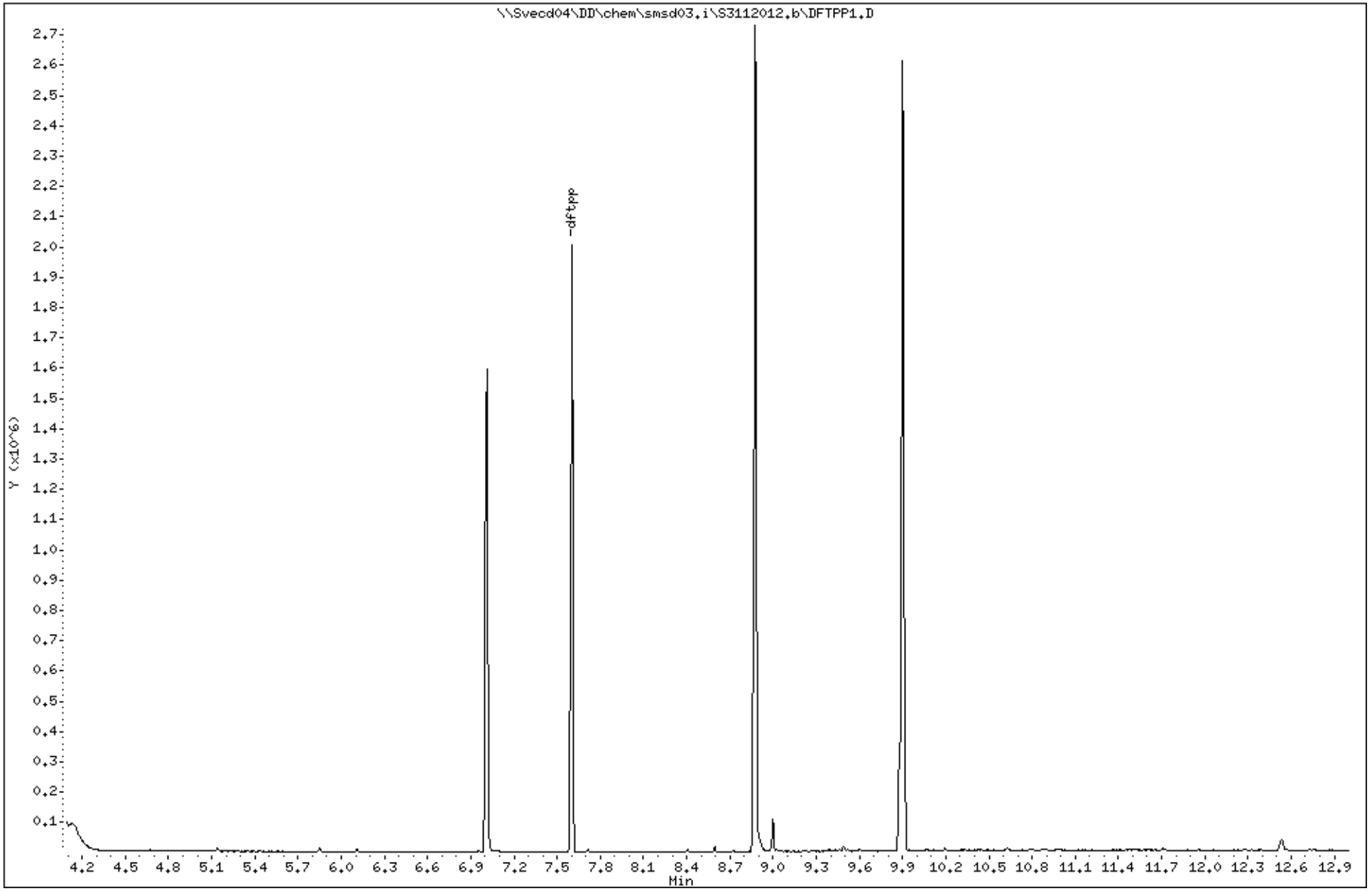
Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\DFTPP1.D
Lab Smp Id: DFTPP1 Client Smp ID: DFTPP1
Inj Date : 20-NOV-2012 16:50
Operator : MJ Inst ID: smsd03.i
Smp Info : 47701
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\DoDTUN.m
Meth Date : 14-Sep-2012 08:05 mjacobs Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 100 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.603	7.713	(0.000)	198	200256			0.00- 100.00	100.00
7.603	7.713	(0.000)	51	51376			10.00- 80.00	25.66
7.603	7.713	(0.000)	68	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	69	63888			0.00- 0.00	31.90
7.603	7.713	(0.000)	70	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	127	87808			10.00- 80.00	43.85
7.603	7.713	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	199	13901			5.00- 9.00	6.94
7.603	7.713	(0.000)	275	50904			10.00- 60.00	25.42
7.603	7.713	(0.000)	365	5326			1.00- 0.00	2.66
7.603	7.713	(0.000)	441	27192			0.01- 24.00	14.06
7.603	7.713	(0.000)	442	193344			50.00- 0.00	96.55
7.603	7.713	(0.000)	443	38336			15.00- 24.00	19.83

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\DFTPP1.D
Date : 20-NOV-2012 16:50
Client ID: DFTPP1 Instrument: smsd03.i
Sample Info: 47701
Volume Injected (uL): 1.0 Operator: MJ
Column phase: Column diameter: 2.00



249

3507616

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\DFTPP1.D

Date : 20-NOV-2012 16:50

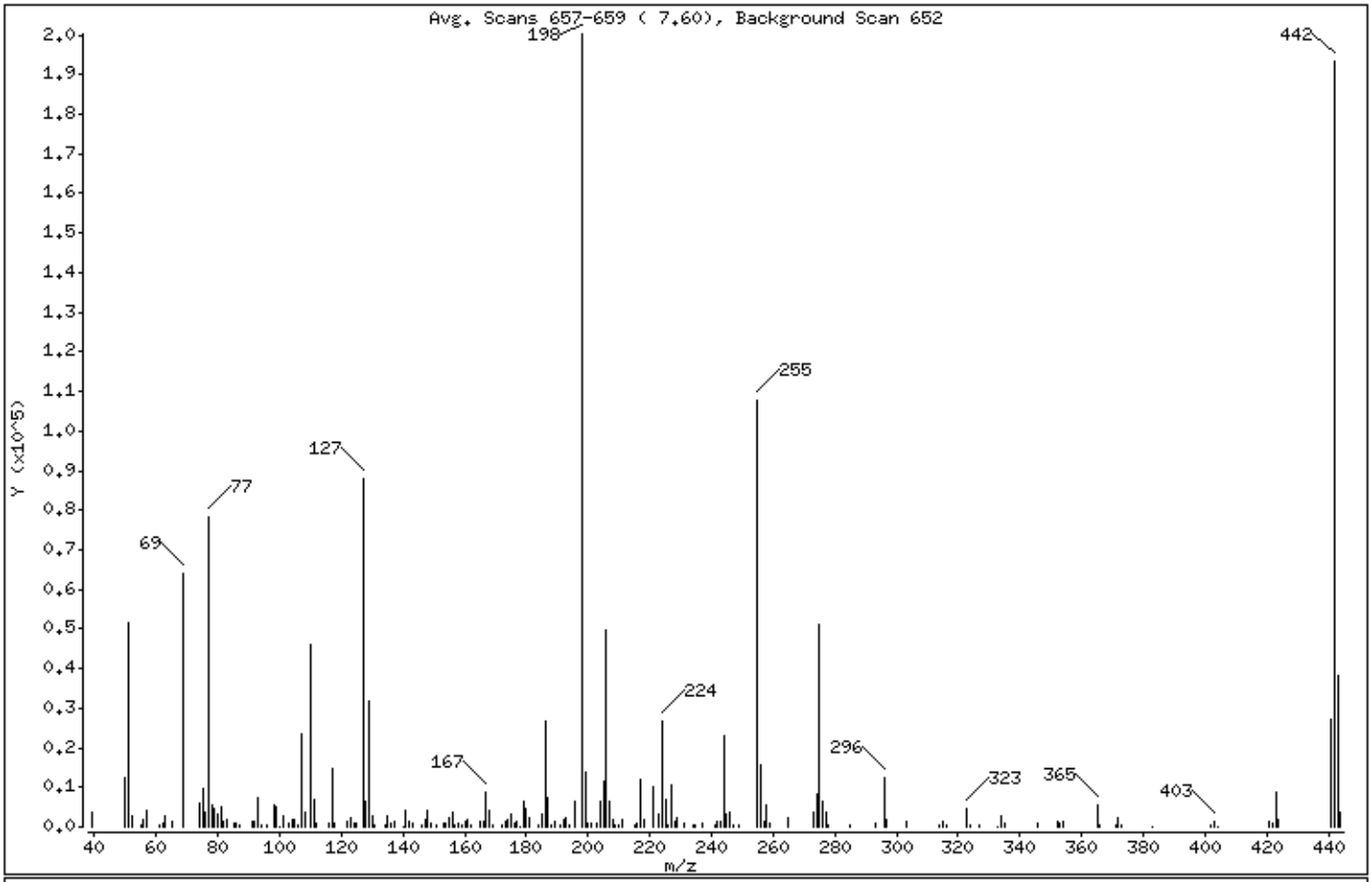
Client ID: DFTPP1 Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	25.66
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	31.90
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	43.85
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 60.00% of mass 198	25.42
365	Greater than 1.00% of mass 198	2.66
441	0.01 - 24.00% of mass 442	13.58 (14.06)
442	Greater than 50.00% of mass 198	96.55
443	15.00 - 24.00% of mass 442	19.14 (19.83)

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\DFTPP1.D

Date : 20-NOV-2012 16:50

Client ID: DFTPP1 Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP1.D
Spectrum: Avg. Scans 657-659 (7.60), Background Scan 652
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	3593	124.00	903	187.00	7299	258.00	5519
50.00	12209	125.00	802	188.00	632	259.00	753
51.00	51376	127.00	87808	189.00	1539	265.00	2217
52.00	2641	128.00	6543	191.00	586	273.00	3582
55.00	461	129.00	31928	192.00	2004	274.00	8393
56.00	1670	130.00	2832	193.00	2230	275.00	50904
57.00	4045	131.00	239	194.00	247	276.00	6440
61.00	642	134.00	616	196.00	6447	277.00	3794
62.00	730	135.00	2670	198.00	200256	278.00	566
63.00	2567	136.00	892	199.00	13901	285.00	247
65.00	1218	137.00	1371	200.00	878	293.00	913
69.00	63888	140.00	225	201.00	1008	296.00	12353
74.00	6041	141.00	4043	203.00	1099	297.00	1684
75.00	9794	142.00	1419	204.00	6492	303.00	1584
76.00	3767	143.00	741	205.00	11601	314.00	563
77.00	78344	146.00	545	206.00	49664	315.00	1466
78.00	5462	147.00	2033	207.00	6454	316.00	651
79.00	4542	148.00	4183	208.00	1709	323.00	4576
80.00	3431	149.00	801	209.00	452	324.00	636
81.00	5139	151.00	242	210.00	404	327.00	592
82.00	1526	153.00	1015	211.00	1865	333.00	219
83.00	1616	154.00	916	215.00	254	334.00	2638
85.00	864	155.00	2177	216.00	1028	335.00	857
86.00	1111	156.00	3657	217.00	11926	346.00	993
87.00	569	157.00	688	218.00	1690	352.00	1295
91.00	1312	158.00	695	221.00	10005	353.00	981
92.00	1301	159.00	648	223.00	3183	354.00	1381
93.00	7284	160.00	1349	224.00	26496	365.00	5326
94.00	551	161.00	2058	225.00	6980	366.00	658
96.00	245	162.00	535	226.00	656	371.00	248
98.00	5517	165.00	1510	227.00	10720	372.00	2520
99.00	4896	166.00	1456	228.00	1313	373.00	245
100.00	229	167.00	8757	229.00	2418	383.00	227
101.00	2809	168.00	4018	231.00	737	402.00	650
103.00	868	169.00	616	234.00	463	403.00	1345

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\DFTPP1.D

Date : 20-NOV-2012 16:50

Client ID: DFTPP1 Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP1.D
Spectrum: Avg. Scans 657-659 (7.60), Background Scan 652
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	1892	172.00	586	235.00	626	404.00	219
105.00	1829	173.00	1217	237.00	862	421.00	1366
106.00	487	174.00	1797	241.00	490	422.00	1085
107.00	23576	175.00	3452	242.00	1386	423.00	8618
108.00	3680	176.00	1119	243.00	1459	424.00	1738
110.00	45824	177.00	1537	244.00	23024	441.00	27192
111.00	6838	178.00	219	245.00	3173	442.00	193344
112.00	722	179.00	6281	246.00	3687	443.00	38336
116.00	1051	180.00	4548	247.00	545	444.00	3680
117.00	14745	181.00	2228	249.00	667		
118.00	1089	184.00	300	255.00	107872		
122.00	1369	185.00	2999	256.00	15810		
123.00	2239	186.00	26592	257.00	1309		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/20/2012 17:10

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 14:40

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 10:07

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 17:49

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 18:21

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:37

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:41

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112012.b/DFTPP1.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL4.D
Lab Smp Id: 47785 Client Smp ID: SSCCV1
Inj Date : 20-NOV-2012 17:27 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47785
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 17:27 Cal File: SSCAL4.D
Als bottle: 99 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.682	5.683 (0.900)	128	21824	0.50000		0.52	80.00- 120.00	100.00
	5.688	5.683 (0.901)	129	2389				0.00- 40.88	10.95
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.316	6.317 (1.000)	152	20894	0.80000			80.00- 120.00	100.00
	6.310	6.311 (1.000)	122	6749				2.00- 62.00	32.30
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.349	6.345 (1.005)	142	13928	0.50000		0.49	80.00- 120.00	100.00
	6.349	6.345 (1.005)	141	11912				54.36- 114.36	85.53
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.444	6.445 (1.020)	142	12914	0.50000		0.48	80.00- 120.00	100.00
	6.444	6.445 (1.020)	141	11259				56.64- 116.64	87.18
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.224 (1.144)	152	21290	0.50000		0.50	80.00- 120.00	100.00
	7.224	7.220 (1.144)	151	4034				0.00- 48.91	18.95
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.392 (1.171)	153	13318	0.50000		0.50	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.391	7.392 (1.170)		152	6307			17.33- 77.33	47.36
7 Fluorene						CAS #: 86-73-7		
7.900	7.896 (1.251)		166	15234	0.50000	0.50	80.00- 120.00	100.00
7.897	7.896 (1.250)		165	14063			63.04- 123.04	92.31
8 Pentachlorophenol						CAS #: 87-86-5		
8.639	8.634 (0.865)		266	14079	5.00000	5.9	80.00- 120.00	100.00(A)
8.634	8.634 (0.864)		264	8973			33.02- 93.02	63.73
9 Phenanthrene						CAS #: 85-01-8		
8.839	8.839 (0.885)		178	22365	0.50000	0.48	80.00- 120.00	100.00
8.839	8.839 (0.885)		179	3420			0.00- 45.27	15.29
10 Anthracene						CAS #: 120-12-7		
8.887	8.888 (0.889)		178	23328	0.50000	0.51	80.00- 120.00	100.00
8.887	8.888 (0.889)		179	3560			0.00- 45.00	15.26
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.993	9.991 (1.000)		212	35031	0.80000		80.00- 120.00	100.00
9.987	9.985 (1.000)		106	5595			0.00- 45.92	15.97
12 Fluoranthene						CAS #: 206-44-0		
10.009	10.007 (1.002)		202	25785	0.50000	0.50	80.00- 120.00	100.00
10.009	10.007 (1.002)		101	3469			0.00- 43.17	13.45
13 Pyrene						CAS #: 129-00-0		
10.235	10.233 (1.024)		202	25952	0.50000	0.47	80.00- 120.00	100.00
10.229	10.227 (1.024)		101	3793			0.00- 44.81	14.62
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.401	11.401 (1.141)		226	6303	0.50000	0.50	80.00- 120.00	100.00
11.401	11.397 (1.141)		200	820			0.00- 42.98	13.01
15 Chrysene						CAS #: 218-01-9		
11.436	11.436 (1.144)		226	6879	0.50000	0.48	80.00- 120.00	100.00
11.436	11.436 (1.144)		200	869			0.00- 42.59	12.63
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.391	12.390 (1.240)		252	24774	0.50000	0.52	80.00- 120.00	100.00
12.391	12.385 (1.240)		250	5380			0.00- 53.98	21.72
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.413	12.412 (1.242)		252	26258	0.50000	0.47	80.00- 120.00	100.00
12.413	12.412 (1.242)		250	6148			0.00- 52.08	23.41
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.620	12.615 (1.263)		264	25905	0.50000	0.53	80.00- 120.00	100.00
12.616	12.615 (1.262)		132	4485			0.00- 47.49	17.31
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.691	12.690 (1.270)		252	22882	0.50000	0.50	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
19 Benzo[a]pyrene (continued)								
12.691	12.685 (1.270)		250	5380			0.00- 54.02	23.51
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.827	13.821 (1.384)		276	30015	0.50000	0.55	80.00- 120.00	100.00
13.827	13.821 (1.384)		138	8881			0.44- 60.44	29.59
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.836	13.830 (1.385)		278	24403	0.50000	0.53	80.00- 120.00	100.00
13.827	13.821 (1.384)		138	8881			6.81- 66.81	36.39
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.138	14.132 (1.415)		276	23331	0.50000	0.52	80.00- 120.00	100.00
14.133	14.132 (1.414)		138	6219			0.00- 55.67	26.66

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL4.D
Date : 20-NOV-2012 17:27
Client ID: SSCCV1
Sample Info: 47785

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

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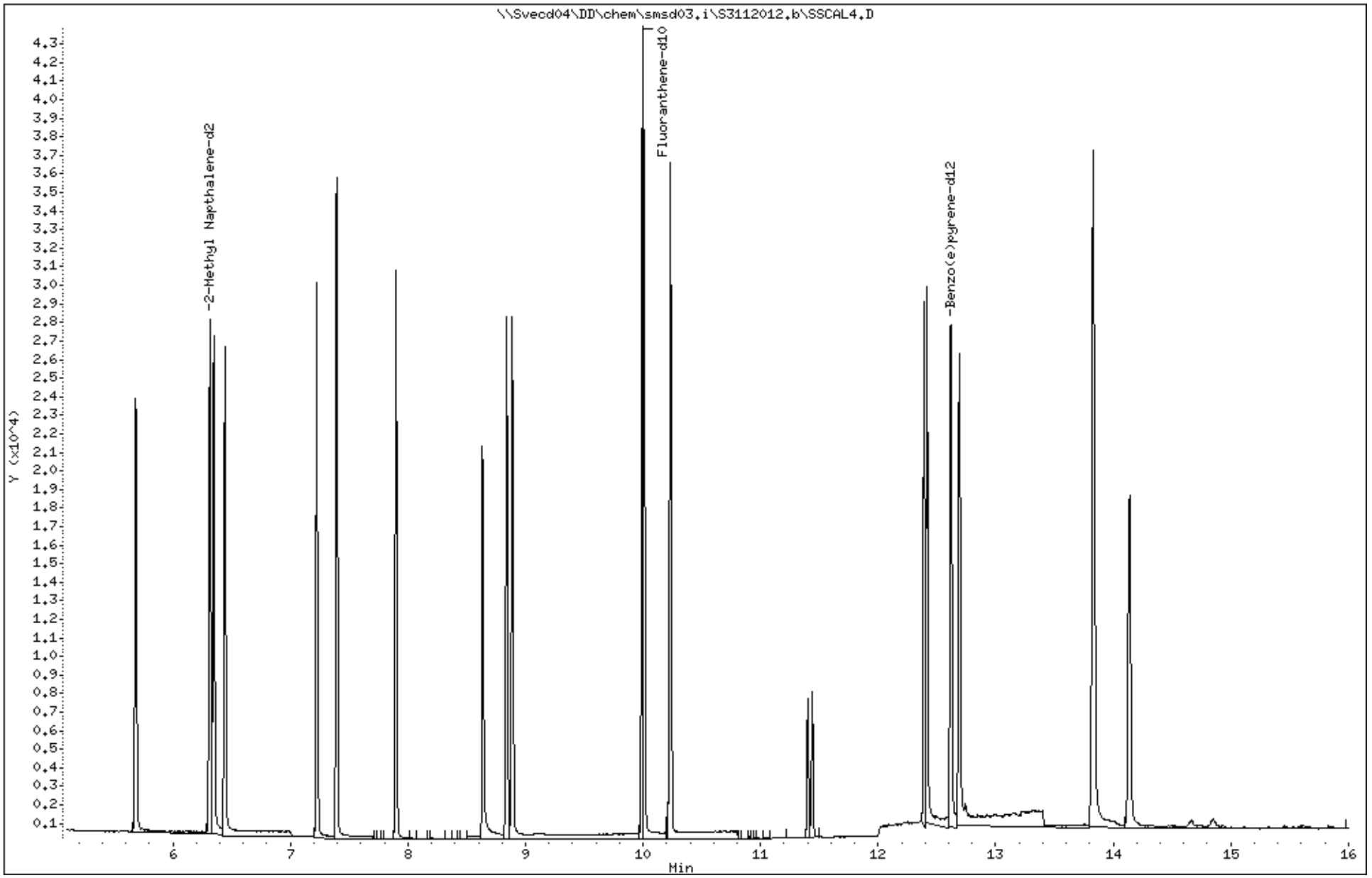

3507616

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Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL7.D
Lab Smp Id: 47782 Client Smp ID: SSCAL7
Inj Date : 20-NOV-2012 17:52 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47782
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 17:52 Cal File: SSCAL7.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.685	5.683 (0.900)	128	373333	10.0000		8.3	80.00- 120.00	100.00
	5.685	5.683 (0.900)	129	45643				0.00- 40.88	12.23
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.319	6.317 (1.000)	152	22304	0.80000			80.00- 120.00	100.00
	6.313	6.311 (1.000)	122	7052				2.00- 62.00	31.62
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.347	6.345 (1.004)	142	266457	10.0000		8.7	80.00- 120.00	100.00
	6.347	6.345 (1.004)	141	224914				54.36- 114.36	84.41
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.447	6.445 (1.020)	142	254931	10.0000		8.8	80.00- 120.00	100.00
	6.441	6.445 (1.019)	141	222317				56.64- 116.64	87.21
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.224 (1.143)	152	386571	10.0000		8.5	80.00- 120.00	100.00
	7.224	7.220 (1.143)	151	78144				0.00- 48.91	20.21
	6 Acenaphthene						CAS #: 83-32-9		
	7.392	7.392 (1.170)	153	247988	10.0000		8.7	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.392	7.392 (1.170)		152	119833			17.33- 77.33	48.32
7 Fluorene						CAS #: 86-73-7		
7.900	7.896 (1.250)		166	292090	10.0000	9.0	80.00- 120.00	100.00
7.896	7.896 (1.250)		165	270502			63.04- 123.04	92.61
8 Pentachlorophenol						CAS #: 87-86-5		
8.638	8.634 (0.865)		266	70644	20.0000	26.8	80.00- 120.00	100.00(A)
8.633	8.634 (0.864)		264	45354			33.02- 93.02	64.20
9 Phenanthrene						CAS #: 85-01-8		
8.838	8.839 (0.885)		178	399310	10.0000	7.7	80.00- 120.00	100.00
8.838	8.839 (0.885)		179	65384			0.00- 45.27	16.37
10 Anthracene						CAS #: 120-12-7		
8.887	8.888 (0.889)		178	399628	10.0000	7.9	80.00- 120.00	100.00
8.892	8.888 (0.890)		179	66597			0.00- 45.00	16.66
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.992	9.991 (1.000)		212	38682	0.80000		80.00- 120.00	100.00
9.992	9.985 (1.000)		106	6124			0.00- 45.92	15.83
12 Fluoranthene						CAS #: 206-44-0		
10.014	10.007 (1.002)		202	496083	10.0000	8.8	80.00- 120.00	100.00
10.008	10.007 (1.002)		101	70678			0.00- 43.17	14.25
13 Pyrene						CAS #: 129-00-0		
10.233	10.233 (1.024)		202	519499	10.0000	8.5	80.00- 120.00	100.00
10.233	10.227 (1.024)		101	89813			0.00- 44.81	17.29
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.405	11.401 (1.141)		226	134247	10.0000	10	80.00- 120.00	100.00
11.401	11.397 (1.141)		200	18331			0.00- 42.98	13.65
15 Chrysene						CAS #: 218-01-9		
11.440	11.436 (1.145)		226	147090	10.0000	9.2	80.00- 120.00	100.00
11.436	11.436 (1.145)		200	19078			0.00- 42.59	12.97
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.394	12.390 (1.240)		252	415176	10.0000	9.5	80.00- 120.00	100.00
12.390	12.385 (1.240)		250	105365			0.00- 53.98	25.38
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.416	12.412 (1.243)		252	461588	10.0000	7.4	80.00- 120.00	100.00
12.416	12.412 (1.243)		250	109038			0.00- 52.08	23.62
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.619	12.615 (1.263)		264	427706	10.0000	7.9	80.00- 120.00	100.00
12.619	12.615 (1.263)		132	77917			0.00- 47.49	18.22
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.694	12.690 (1.270)		252	401552	10.0000	7.9	80.00- 120.00	100.00

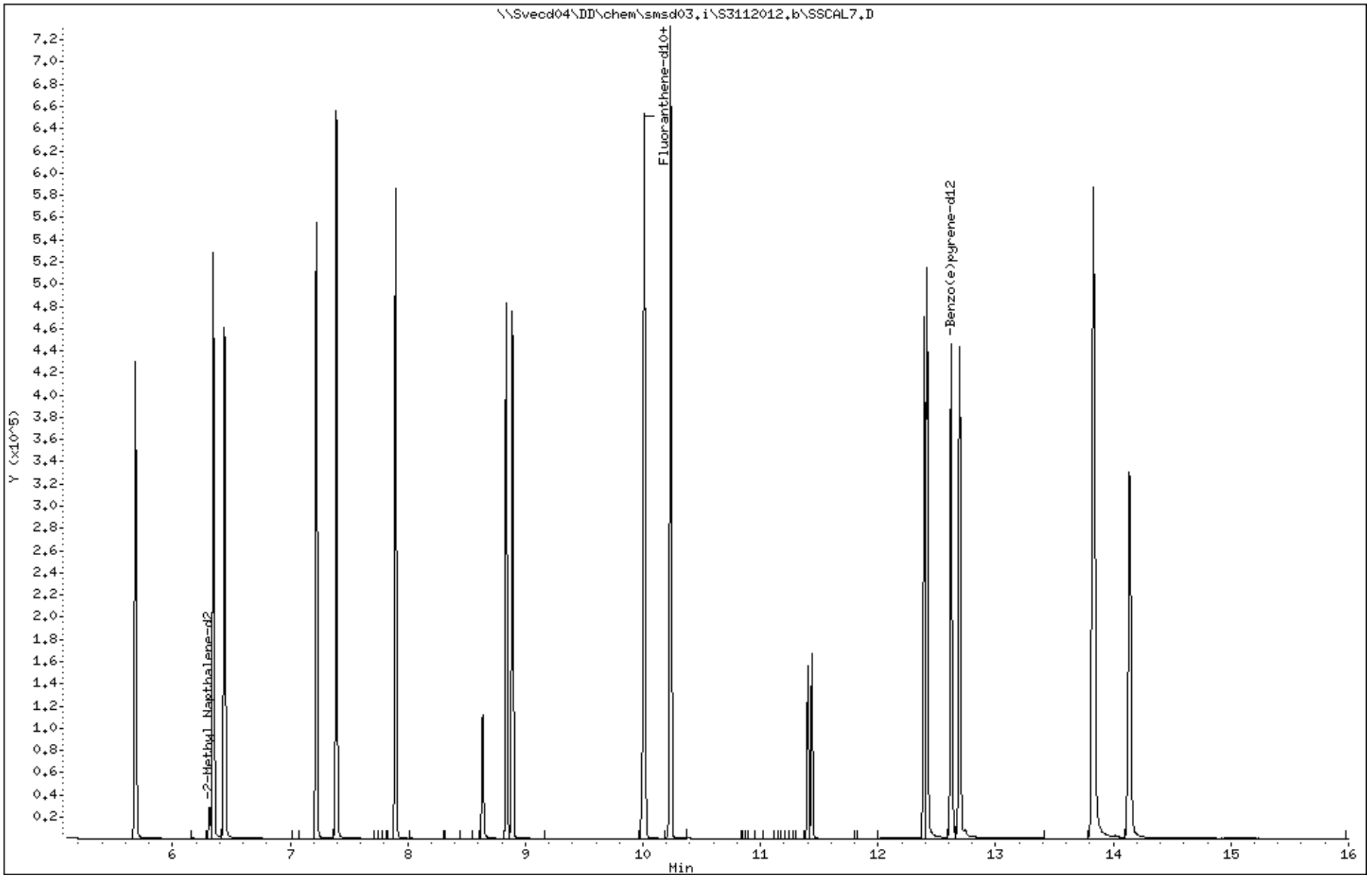
					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.690	12.685	(1.270)	250	100844			0.00- 54.02	25.11
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.825	13.821	(1.384)	276	488557	10.0000	8.1	80.00- 120.00	100.00
13.825	13.821	(1.384)	138	148750			0.44- 60.44	30.45
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.834	13.830	(1.385)	278	407642	10.0000	9.7	80.00- 120.00	100.00
13.825	13.821	(1.384)	138	148750			6.81- 66.81	36.49
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.141	14.132	(1.415)	276	423092	10.0000	8.5	80.00- 120.00	100.00
14.137	14.132	(1.415)	138	110486			0.00- 55.67	26.11

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL7.D
Date : 20-NOV-2012 17:52
Client ID: SSCAL7
Sample Info: 47782

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



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3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL6.D
Lab Smp Id: 47783 Client Smp ID: SSCAL6
Inj Date : 20-NOV-2012 18:15 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47783
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 18:15 Cal File: SSCAL6.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.683	5.683 (0.900)		128	205755	5.00000	4.6	80.00- 120.00	100.00
5.683	5.683 (0.900)		129	24384			0.00- 40.88	11.85
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	22078	0.80000		80.00- 120.00	100.00
6.311	6.311 (1.000)		122	7017			2.00- 62.00	31.78
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.350	6.345 (1.005)		142	143074	5.00000	4.7	80.00- 120.00	100.00
6.344	6.345 (1.004)		141	119809			54.36- 114.36	83.74
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.444	6.445 (1.020)		142	134571	5.00000	4.7	80.00- 120.00	100.00
6.444	6.445 (1.020)		141	117368			56.64- 116.64	87.22
	5 Acenaphthylene					CAS #: 208-96-8		
7.224	7.224 (1.144)		152	207622	5.00000	4.6	80.00- 120.00	100.00
7.224	7.220 (1.144)		151	41092			0.00- 48.91	19.79
	6 Acenaphthene					CAS #: 83-32-9		
7.396	7.392 (1.171)		153	134302	5.00000	4.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.391	7.392 (1.170)		152	64164			17.33- 77.33	47.78
	7 Fluorene					CAS #: 86-73-7		
7.897	7.896 (1.250)		166	160543	5.00000	5.0	80.00- 120.00	100.00
7.897	7.896 (1.250)		165	148612			63.04- 123.04	92.57
	8 Pentachlorophenol					CAS #: 87-86-5		
8.634	8.634 (0.864)		266	32999	10.0000	13.4	80.00- 120.00	100.00(A)
8.634	8.634 (0.864)		264	20986			33.02- 93.02	63.60
	9 Phenanthrene					CAS #: 85-01-8		
8.840	8.839 (0.885)		178	234621	5.00000	4.9	80.00- 120.00	100.00
8.840	8.839 (0.885)		179	38237			0.00- 45.27	16.30
	10 Anthracene					CAS #: 120-12-7		
8.888	8.888 (0.890)		178	234126	5.00000	5.0	80.00- 120.00	100.00
8.888	8.888 (0.890)		179	37771			0.00- 45.00	16.13
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.992	9.991 (1.000)		212	36153	0.80000		80.00- 120.00	100.00
9.987	9.985 (1.000)		106	5678			0.00- 45.92	15.71
	12 Fluoranthene					CAS #: 206-44-0		
10.009	10.007 (1.002)		202	234142	5.00000	4.4	80.00- 120.00	100.00
10.009	10.007 (1.002)		101	32188			0.00- 43.17	13.75
	13 Pyrene					CAS #: 129-00-0		
10.234	10.233 (1.024)		202	281984	5.00000	4.9	80.00- 120.00	100.00
10.229	10.227 (1.024)		101	47870			0.00- 44.81	16.98
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.405	11.401 (1.141)		226	63663	5.00000	5.0	80.00- 120.00	100.00
11.401	11.397 (1.141)		200	8473			0.00- 42.98	13.31
	15 Chrysene					CAS #: 218-01-9		
11.436	11.436 (1.144)		226	71773	5.00000	4.8	80.00- 120.00	100.00
11.436	11.436 (1.144)		200	9352			0.00- 42.59	13.03
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.390	12.390 (1.240)		252	236255	5.00000	5.8	80.00- 120.00	100.00
12.390	12.385 (1.240)		250	52829			0.00- 53.98	22.36
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.416	12.412 (1.243)		252	246065	5.00000	4.2	80.00- 120.00	100.00
12.412	12.412 (1.242)		250	64525			0.00- 52.08	26.22
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.619	12.615 (1.263)		264	245664	5.00000	4.8	80.00- 120.00	100.00
12.614	12.615 (1.262)		132	45301			0.00- 47.49	18.44
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.689	12.690 (1.270)		252	227108	5.00000	4.8	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.689	12.685	(1.270)	250	54908			0.00- 54.02	24.18
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.826	13.821	(1.384)	276	264303	5.00000	4.7	80.00- 120.00	100.00
13.826	13.821	(1.384)	138	80557			0.44- 60.44	30.48
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.831	13.830	(1.384)	278	218580	5.00000	5.5	80.00- 120.00	100.00
13.826	13.821	(1.384)	138	80557			6.81- 66.81	36.85
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.137	14.132	(1.415)	276	223115	5.00000	4.8	80.00- 120.00	100.00
14.133	14.132	(1.414)	138	57803			0.00- 55.67	25.91

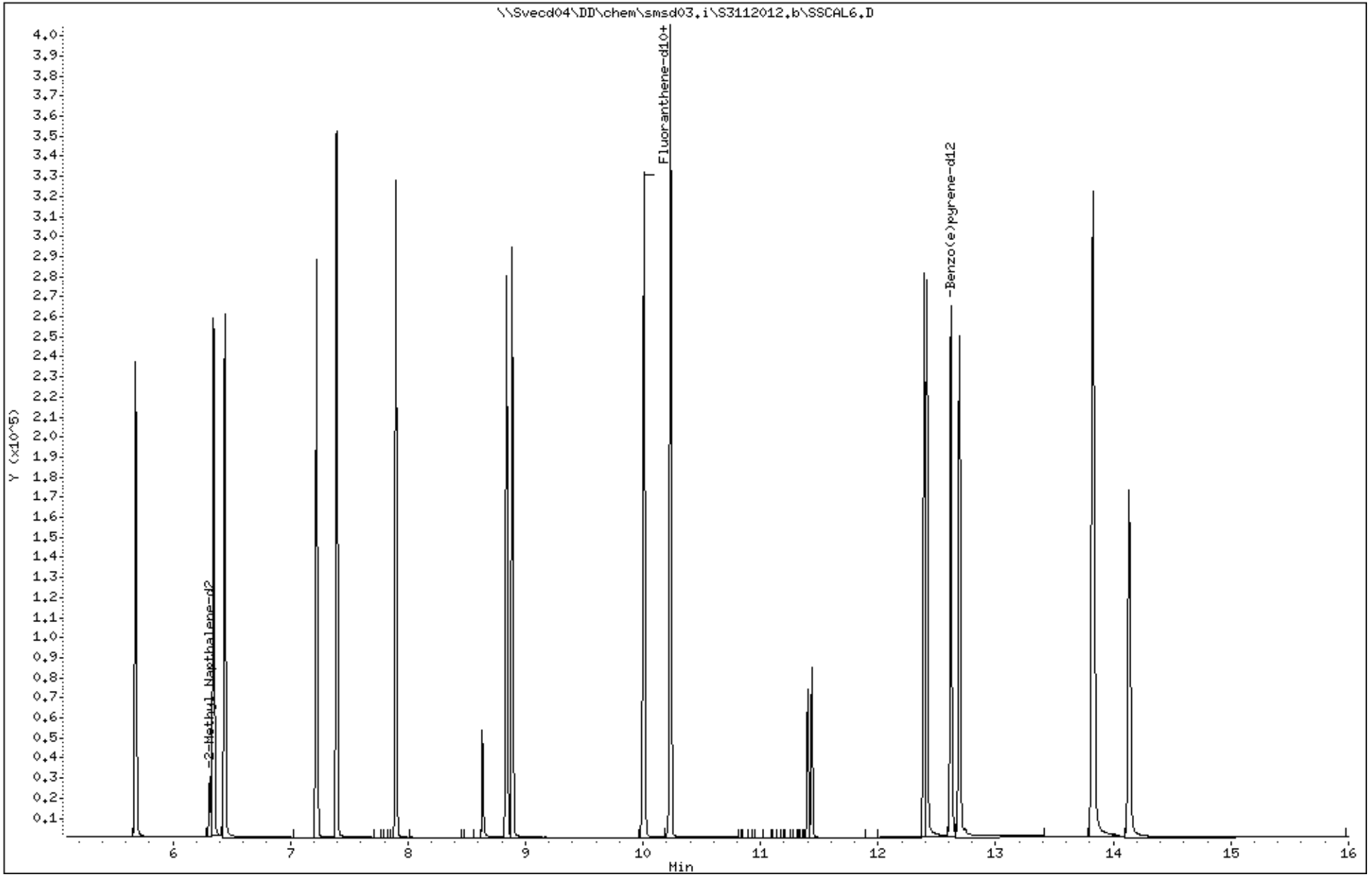
QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL6.D
Date : 20-NOV-2012 18:15
Client ID: SSCAL6
Sample Info: 47783

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL5.D
Lab Smp Id: 47784 Client Smp ID: SSCAL5
Inj Date : 20-NOV-2012 18:39 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47784
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 18:39 Cal File: SSCAL5.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.685	5.683 (0.900)	128	40267	1.00000		0.92	80.00- 120.00	100.00
5.685	5.683 (0.900)	129	4402				0.00- 40.88	10.93
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.319	6.317 (1.000)	152	21814	0.80000			80.00- 120.00	100.00
6.314	6.311 (1.000)	122	6828				2.00- 62.00	31.30
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.347	6.345 (1.004)	142	29207	1.00000		0.98	80.00- 120.00	100.00
6.347	6.345 (1.004)	141	24430				54.36- 114.36	83.64
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.441	6.445 (1.019)	142	25253	1.00000		0.90	80.00- 120.00	100.00
6.441	6.445 (1.019)	141	21954				56.64- 116.64	86.94
	5 Acenaphthylene					CAS #: 208-96-8		
7.224	7.224 (1.143)	152	40899	1.00000		0.92	80.00- 120.00	100.00
7.220	7.220 (1.143)	151	7774				0.00- 48.91	19.01
	6 Acenaphthene					CAS #: 83-32-9		
7.392	7.392 (1.170)	153	25324	1.00000		0.91	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.392	7.392 (1.170)		152	12017			17.33- 77.33	47.45
	7 Fluorene					CAS #: 86-73-7		
7.897	7.896 (1.250)		166	29078	1.00000	0.91	80.00- 120.00	100.00
7.897	7.896 (1.250)		165	26886			63.04- 123.04	92.46
	8 Pentachlorophenol					CAS #: 87-86-5		
8.634	8.634 (0.864)		266	16392	7.00000	7.0	80.00- 120.00	100.00(A)
8.634	8.634 (0.864)		264	10390			33.02- 93.02	63.38
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.885)		178	41282	1.00000	0.91	80.00- 120.00	100.00
8.839	8.839 (0.885)		179	6384			0.00- 45.27	15.46
	10 Anthracene					CAS #: 120-12-7		
8.887	8.888 (0.890)		178	41223	1.00000	0.93	80.00- 120.00	100.00
8.887	8.888 (0.890)		179	6327			0.00- 45.00	15.35
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.992	9.991 (1.000)		212	34091	0.80000		80.00- 120.00	100.00
9.992	9.985 (1.000)		106	5527			0.00- 45.92	16.21
	12 Fluoranthene					CAS #: 206-44-0		
10.008	10.007 (1.002)		202	49480	1.00000	0.99	80.00- 120.00	100.00
10.008	10.007 (1.002)		101	6573			0.00- 43.17	13.28
	13 Pyrene					CAS #: 129-00-0		
10.233	10.233 (1.024)		202	50796	1.00000	0.94	80.00- 120.00	100.00
10.233	10.227 (1.024)		101	7616			0.00- 44.81	14.99
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.401	11.401 (1.141)		226	12019	1.00000	1.00	80.00- 120.00	100.00
11.401	11.397 (1.141)		200	1579			0.00- 42.98	13.14
	15 Chrysene					CAS #: 218-01-9		
11.437	11.436 (1.145)		226	13088	1.00000	0.93	80.00- 120.00	100.00
11.437	11.436 (1.145)		200	1666			0.00- 42.59	12.73
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.390	12.390 (1.240)		252	40313	1.00000	0.95	80.00- 120.00	100.00
12.390	12.385 (1.240)		250	9836			0.00- 53.98	24.40
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.412 (1.242)		252	53318	1.00000	0.98	80.00- 120.00	100.00
12.412	12.412 (1.242)		250	12499			0.00- 52.08	23.44
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.620	12.615 (1.263)		264	44121	1.00000	0.92	80.00- 120.00	100.00
12.615	12.615 (1.263)		132	7816			0.00- 47.49	17.71
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.690	12.690 (1.270)		252	41309	1.00000	0.92	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	19 Benzo[a]pyrene (continued)							
12.690	12.685	(1.270)	250	9688			0.00- 54.02	23.45
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.826	13.821	(1.384)	276	54078	1.00000	1.0	80.00- 120.00	100.00
13.826	13.821	(1.384)	138	16272			0.44- 60.44	30.09
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.830	13.830	(1.384)	278	44823	1.00000	1.1	80.00- 120.00	100.00
13.826	13.821	(1.384)	138	16718			6.81- 66.81	37.30
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.137	14.132	(1.415)	276	41354	1.00000	0.94	80.00- 120.00	100.00
14.133	14.132	(1.414)	138	10440			0.00- 55.67	25.25

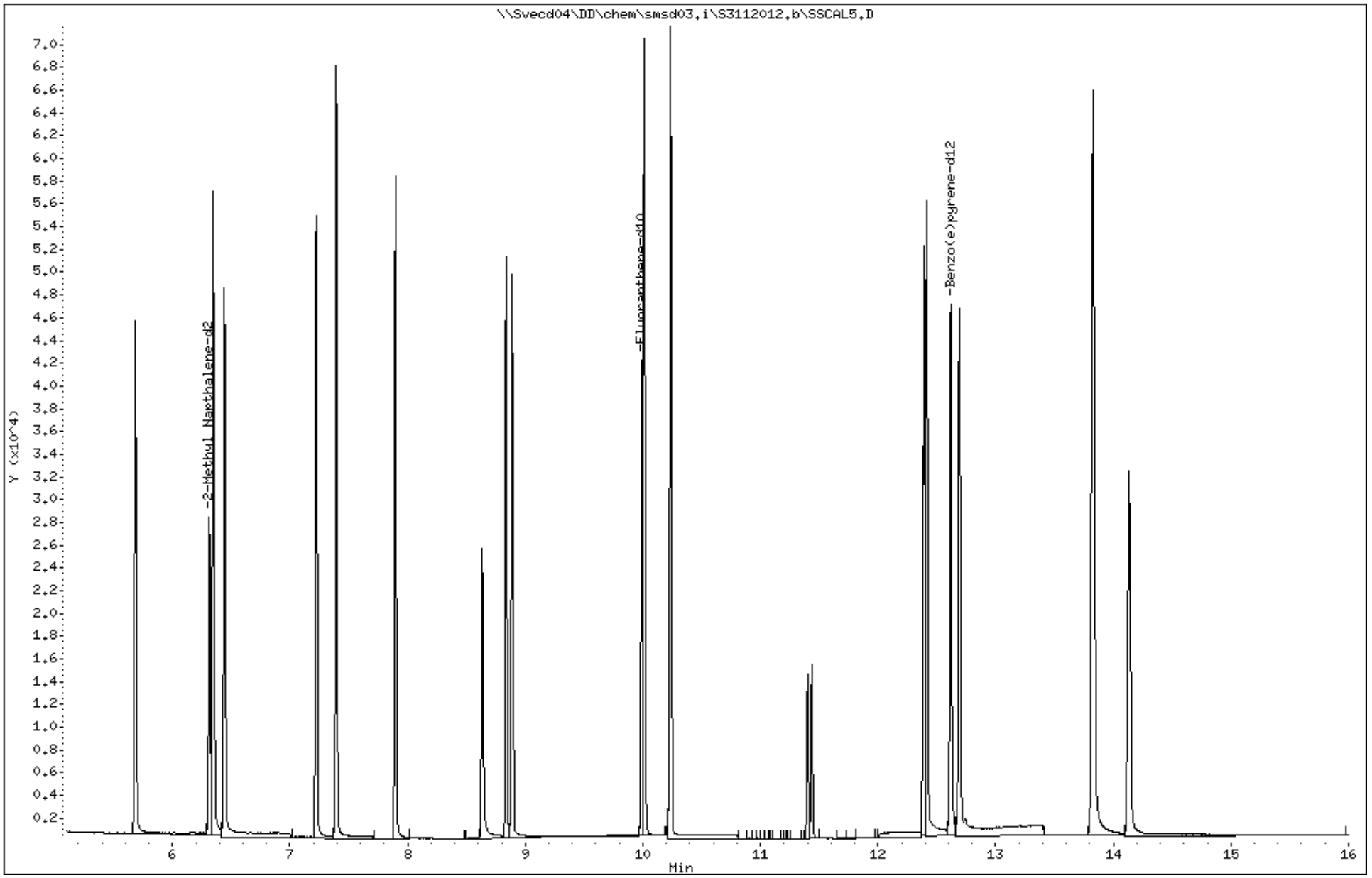
QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL5.D
Date : 20-NOV-2012 18:39
Client ID: SSCAL5
Sample Info: 47784

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

269



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL3.D
Lab Smp Id: 47786 Client Smp ID: SSCAL3
Inj Date : 20-NOV-2012 19:02 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47786
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:02 Cal File: SSCAL3.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.683	5.683 (0.900)		128	4321	0.10000	0.11	80.00- 120.00	100.00
5.683	5.683 (0.900)		129	475			0.00- 40.88	10.99
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	19574	0.80000		80.00- 120.00	100.00
6.311	6.311 (1.000)		122	6261			2.00- 62.00	31.99
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.345	6.345 (1.004)		142	2793	0.10000	0.10	80.00- 120.00	100.00
6.345	6.345 (1.004)		141	2425			54.36- 114.36	86.82
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.445	6.445 (1.020)		142	2825	0.10000	0.11	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	2557			56.64- 116.64	90.51
	5 Acenaphthylene					CAS #: 208-96-8		
7.225	7.224 (1.144)		152	4506	0.10000	0.11	80.00- 120.00	100.00
7.220	7.220 (1.143)		151	825			0.00- 48.91	18.31
	6 Acenaphthene					CAS #: 83-32-9		
7.392	7.392 (1.170)		153	2708	0.10000	0.11	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.392	7.392 (1.170)		152	1255			17.33- 77.33	46.34
	7 Fluorene					CAS #: 86-73-7		
7.900	7.896 (1.251)		166	3051	0.10000	0.11	80.00- 120.00	100.00
7.897	7.896 (1.250)		165	2805			63.04- 123.04	91.94
	8 Pentachlorophenol					CAS #: 87-86-5		
8.639	8.634 (0.865)		266	3111	2.00000	1.3	80.00- 120.00	100.00(A)
8.634	8.634 (0.864)		264	1928			33.02- 93.02	61.97
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.885)		178	4991	0.10000	0.11	80.00- 120.00	100.00
8.839	8.839 (0.885)		179	747			0.00- 45.27	14.97
	10 Anthracene					CAS #: 120-12-7		
8.887	8.888 (0.890)		178	4831	0.10000	0.11	80.00- 120.00	100.00
8.887	8.888 (0.890)		179	694			0.00- 45.00	14.37
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.992	9.991 (1.000)		212	34034	0.80000		80.00- 120.00	100.00
9.992	9.985 (1.000)		106	5485			0.00- 45.92	16.12
	12 Fluoranthene					CAS #: 206-44-0		
10.008	10.007 (1.002)		202	5053	0.10000	0.10	80.00- 120.00	100.00
10.008	10.007 (1.002)		101	711			0.00- 43.17	14.07
	13 Pyrene					CAS #: 129-00-0		
10.233	10.233 (1.024)		202	5771	0.10000	0.11	80.00- 120.00	100.00
10.233	10.227 (1.024)		101	881			0.00- 44.81	15.27
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.400	11.401 (1.141)		226	1290	0.10000	0.093	80.00- 120.00	100.00
11.400	11.397 (1.141)		200	166			0.00- 42.98	12.87
	15 Chrysene					CAS #: 218-01-9		
11.439	11.436 (1.145)		226	1444	0.10000	0.10	80.00- 120.00	100.00
11.435	11.436 (1.145)		200	180			0.00- 42.59	12.47
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.390	12.390 (1.240)		252	4987	0.10000	0.019	80.00- 120.00	100.00
12.390	12.385 (1.240)		250	1215			0.00- 53.98	24.36
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.412 (1.242)		252	5830	0.10000	0.11	80.00- 120.00	100.00
12.412	12.412 (1.242)		250	1358			0.00- 52.08	23.29
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.619	12.615 (1.263)		264	4945	0.10000	0.10	80.00- 120.00	100.00
12.614	12.615 (1.263)		132	920			0.00- 47.49	18.60
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.689	12.690 (1.270)		252	4999	0.10000	0.11	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	19 Benzo[a]pyrene (continued)							
12.689	12.685	(1.270)	250	1187			0.00- 54.02	23.74
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.826	13.821	(1.384)	276	5138	0.10000	0.097	80.00- 120.00	100.00
13.826	13.821	(1.384)	138	1466			0.44- 60.44	28.53
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.830	13.830	(1.384)	278	4315	0.10000		80.00- 120.00	100.00
13.826	13.821	(1.384)	138	1548			6.81- 66.81	35.87
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.133	14.132	(1.414)	276	4422	0.10000	0.10	80.00- 120.00	100.00
14.133	14.132	(1.414)	138	1118			0.00- 55.67	25.28

QC Flag Legend

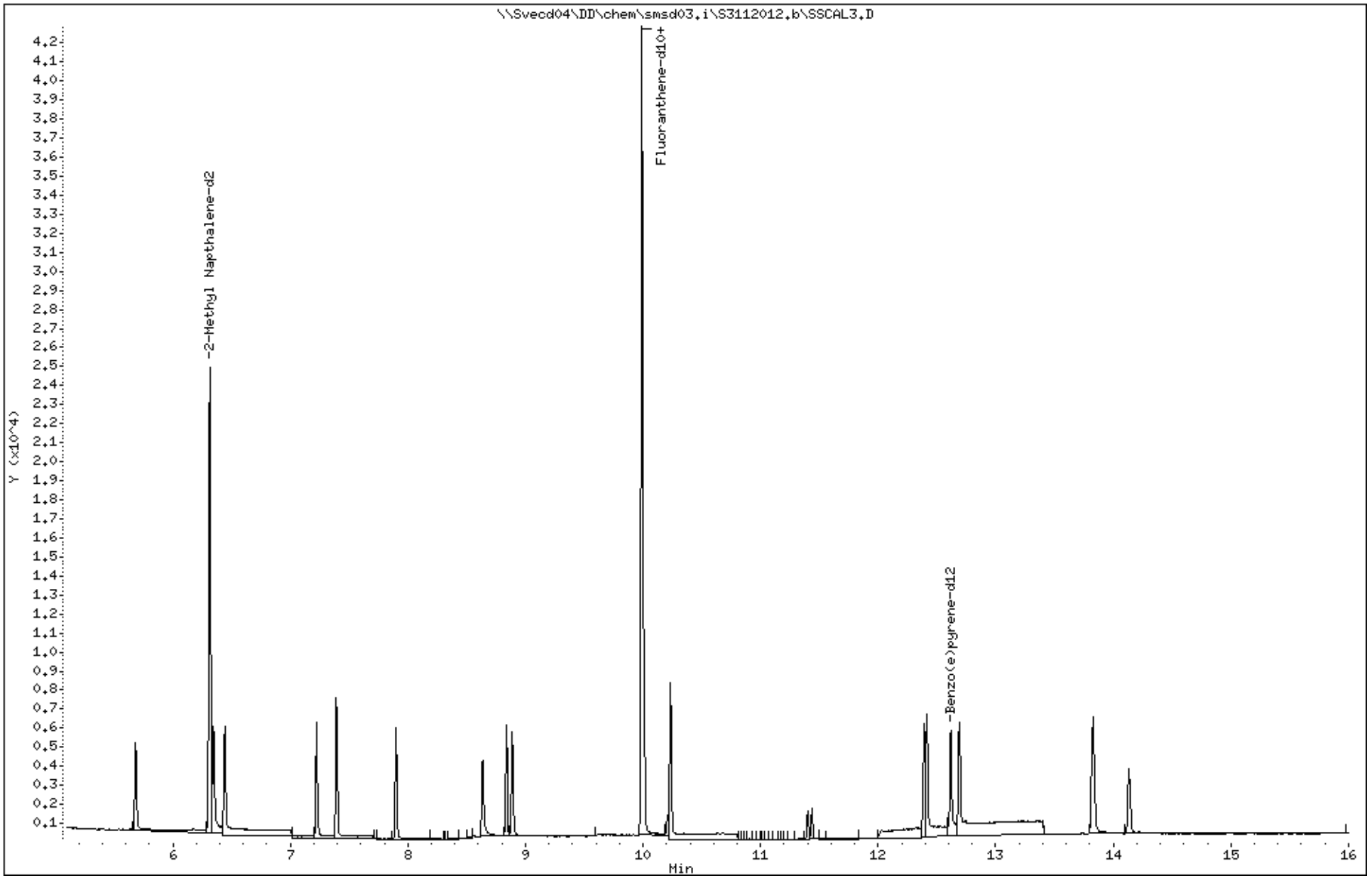
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL3.D
Date : 20-NOV-2012 19:02
Client ID: SSCAL3
Sample Info: 47786

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

273



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL2.D
Lab Smp Id: 47787 Client Smp ID: SSCAL2
Inj Date : 20-NOV-2012 19:26 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47787
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:26 Cal File: SSCAL2.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.684	5.683 (0.900)		128	2455	0.05000	0.053	80.00- 120.00	100.00
5.684	5.683 (0.900)		129	250			0.00- 40.88	10.18
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	22889	0.80000		80.00- 120.00	100.00
6.312	6.311 (1.000)		122	7256			2.00- 62.00	31.70
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.345	6.345 (1.004)		142	1671	0.05000	0.053	80.00- 120.00	100.00
6.345	6.345 (1.004)		141	1423			54.36- 114.36	85.16
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.445	6.445 (1.020)		142	1513	0.05000	0.051	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	1326			56.64- 116.64	87.64
5 Acenaphthylene						CAS #: 208-96-8		
7.223	7.224 (1.143)		152	2478	0.05000	0.053	80.00- 120.00	100.00
7.223	7.220 (1.143)		151	456			0.00- 48.91	18.40
6 Acenaphthene						CAS #: 83-32-9		
7.395	7.392 (1.171)		153	1536	0.05000	0.053	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.390	7.392 (1.170)		152	753			17.33- 77.33	49.02
	7 Fluorene					CAS #: 86-73-7		
7.900	7.896 (1.251)		166	1654	0.05000	0.049	80.00- 120.00	100.00
7.897	7.896 (1.250)		165	1542			63.04- 123.04	93.23
	8 Pentachlorophenol					CAS #: 87-86-5		
8.639	8.634 (0.865)		266	1169	1.00000	0.51	80.00- 120.00	100.00(A)
8.639	8.634 (0.865)		264	704			33.02- 93.02	60.22
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.885)		178	2411	0.05000	0.054	80.00- 120.00	100.00
8.839	8.839 (0.885)		179	345			0.00- 45.27	14.31
	10 Anthracene					CAS #: 120-12-7		
8.887	8.888 (0.889)		178	2290	0.05000	0.052	80.00- 120.00	100.00
8.887	8.888 (0.889)		179	326			0.00- 45.00	14.24
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.992	9.991 (1.000)		212	33752	0.80000		80.00- 120.00	100.00
9.986	9.985 (1.000)		106	5340			0.00- 45.92	15.82
	12 Fluoranthene					CAS #: 206-44-0		
10.008	10.007 (1.002)		202	2672	0.05000	0.054	80.00- 120.00	100.00
10.008	10.007 (1.002)		101	397			0.00- 43.17	14.86
	13 Pyrene					CAS #: 129-00-0		
10.233	10.233 (1.024)		202	2798	0.05000	0.052	80.00- 120.00	100.00
10.228	10.227 (1.024)		101	352			0.00- 44.81	12.58
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.400	11.401 (1.141)		226	689	0.05000	0.043	80.00- 120.00	100.00
11.400	11.397 (1.141)		200	100			0.00- 42.98	14.51
	15 Chrysene					CAS #: 218-01-9		
11.439	11.436 (1.145)		226	760	0.05000	0.055	80.00- 120.00	100.00
11.435	11.436 (1.144)		200	90			0.00- 42.59	11.84
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.390	12.390 (1.240)		252	2450	0.05000		80.00- 120.00	100.00
12.390	12.385 (1.240)		250	583			0.00- 53.98	23.80
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.412 (1.242)		252	3500	0.05000	0.065	80.00- 120.00	100.00
12.412	12.412 (1.242)		250	592			0.00- 52.08	16.91
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.619	12.615 (1.263)		264	2561	0.05000	0.054	80.00- 120.00	100.00
12.615	12.615 (1.262)		132	446			0.00- 47.49	17.42
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.690	12.690 (1.270)		252	2285	0.05000	0.052	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	19 Benzo[a]pyrene (continued)							
12.685	12.685	(1.270)	250	587			0.00- 54.02	25.69
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.821	13.821	(1.383)	276	2510	0.05000	0.048	80.00- 120.00	100.00
13.826	13.821	(1.384)	138	728			0.44- 60.44	29.00
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.830	13.830	(1.384)	278	2051	0.05000		80.00- 120.00	100.00
13.826	13.821	(1.384)	138	689			6.81- 66.81	33.59
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.133	14.132	(1.414)	276	2271	0.05000	0.052	80.00- 120.00	100.00
14.133	14.132	(1.414)	138	529			0.00- 55.67	23.29

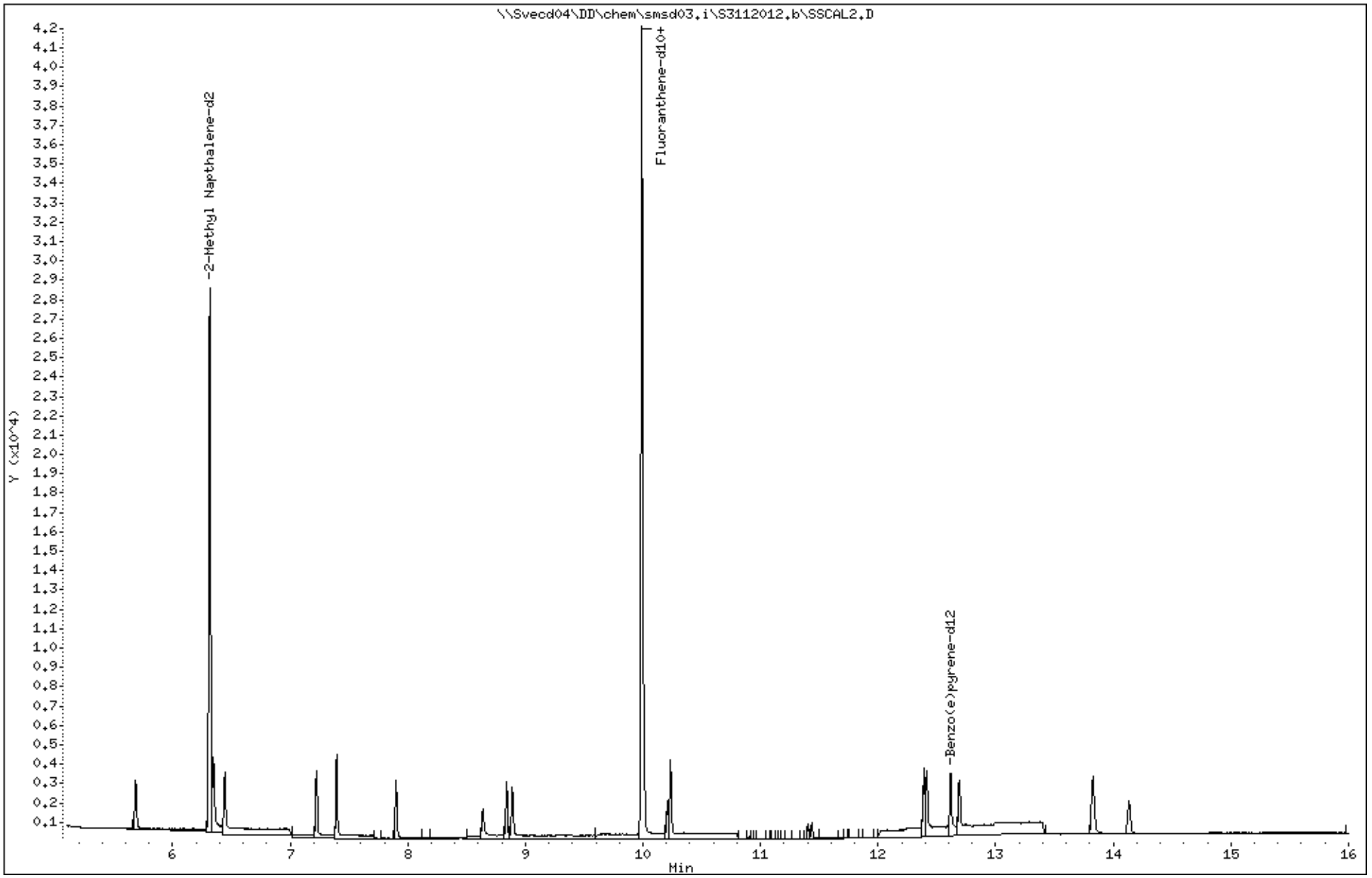
QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL2.D
Date : 20-NOV-2012 19:26
Client ID: SSCAL2
Sample Info: 47787

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

277



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL1.D
Lab Smp Id: 47788 Client Smp ID: SSCAL1
Inj Date : 20-NOV-2012 19:50 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47788
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.683	5.683 (0.900)		128	1010	0.02000	0.023	80.00- 120.00	100.00
	5.688	5.683 (0.901)		129	118			0.00- 40.88	11.68
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.316	6.317 (1.000)		152	22131	0.80000		80.00- 120.00	100.00
	6.311	6.311 (1.000)		122	7034			2.00- 62.00	31.78
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.350	6.345 (1.005)		142	684	0.02000	0.022	80.00- 120.00	100.00
	6.344	6.345 (1.004)		141	531			54.36- 114.36	77.63
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.444	6.445 (1.020)		142	670	0.02000	0.023	80.00- 120.00	100.00
	6.444	6.445 (1.020)		141	563			56.64- 116.64	84.03
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.224 (1.144)		152	1035	0.02000	0.023	80.00- 120.00	100.00
	7.224	7.220 (1.144)		151	192			0.00- 48.91	18.55
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.392 (1.171)		153	632	0.02000	0.022	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.391	7.392 (1.170)		152	308			17.33- 77.33	48.73
	7 Fluorene					CAS #: 86-73-7		
7.900	7.896 (1.251)		166	743	0.02000	0.023	80.00- 120.00	100.00
7.896	7.896 (1.250)		165	667			63.04- 123.04	89.77
	8 Pentachlorophenol					CAS #: 87-86-5		
8.640	8.634 (0.865)		266	791	0.70000	0.32	80.00- 120.00	100.00(A)
8.640	8.634 (0.865)		264	489			33.02- 93.02	61.82
	9 Phenanthrene					CAS #: 85-01-8		
8.840	8.839 (0.885)		178	1149	0.02000	0.024	80.00- 120.00	100.00
8.840	8.839 (0.885)		179	172			0.00- 45.27	14.97
	10 Anthracene					CAS #: 120-12-7		
8.888	8.888 (0.890)		178	1036	0.02000	0.022	80.00- 120.00	100.00
8.888	8.888 (0.890)		179	148			0.00- 45.00	14.29
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.991	9.991 (1.000)		212	35660	0.80000		80.00- 120.00	100.00
9.991	9.985 (1.000)		106	5615			0.00- 45.92	15.75
	12 Fluoranthene					CAS #: 206-44-0		
10.008	10.007 (1.002)		202	1203	0.02000	0.023	80.00- 120.00	100.00
10.008	10.007 (1.002)		101	205			0.00- 43.17	17.04
	13 Pyrene					CAS #: 129-00-0		
10.233	10.233 (1.024)		202	1318	0.02000	0.023	80.00- 120.00	100.00
10.233	10.227 (1.024)		101	162			0.00- 44.81	12.29
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.401	11.401 (1.141)		226	285	0.02000	0.0071	80.00- 120.00	100.00
11.401	11.397 (1.141)		200	36			0.00- 42.98	12.63
	15 Chrysene					CAS #: 218-01-9		
11.436	11.436 (1.145)		226	324	0.02000	0.022	80.00- 120.00	100.00
11.436	11.436 (1.145)		200	42			0.00- 42.59	12.96
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.389	12.390 (1.240)		252	1210	0.02000		80.00- 120.00	100.00
12.389	12.385 (1.240)		250	299			0.00- 53.98	24.71
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.411	12.412 (1.242)		252	1287	0.02000	0.022	80.00- 120.00	100.00(M)
12.389	12.412 (1.240)		250	267			0.00- 52.08	20.75
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.619	12.615 (1.263)		264	1147	0.02000	0.023	80.00- 120.00	100.00
12.614	12.615 (1.263)		132	177			0.00- 47.49	15.43
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.689	12.690 (1.270)		252	1091	0.02000	0.023	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.689	12.685	(1.270)	250	255			0.00- 54.02	23.37
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.825	13.821	(1.384)	276	1328	0.02000	0.024	80.00- 120.00	100.00
13.825	13.821	(1.384)	138	407			0.44- 60.44	30.65
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.830	13.830	(1.384)	278	1125	0.02000		80.00- 120.00	100.00
13.825	13.821	(1.384)	138	407			6.81- 66.81	36.18
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.132	14.132	(1.414)	276	1046	0.02000	0.023	80.00- 120.00	100.00
14.128	14.132	(1.414)	138	283			0.00- 55.67	27.06

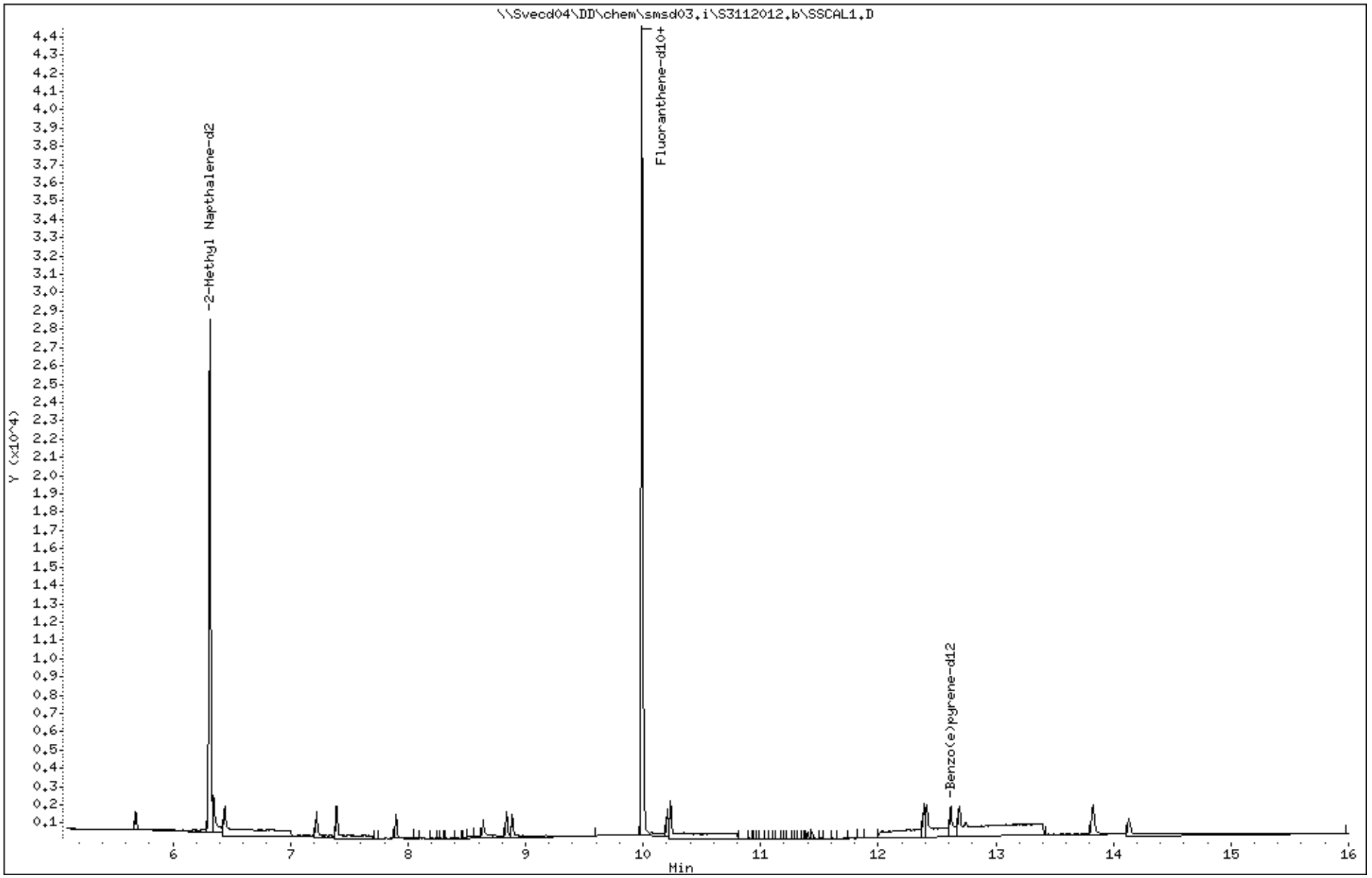
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSCAL1.D
Date : 20-NOV-2012 19:50
Client ID: SSCAL1
Sample Info: 47788

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

281



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSSEC.D
Lab Smp Id: 47789 Client Smp ID: SSSEC
Inj Date : 20-NOV-2012 20:13 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47789
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112012.b\SS8270.m
Meth Date : 29-Nov-2012 16:25 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.683	5.683 (0.900)	128	23335	0.50000		0.54	80.00- 120.00	100.00
	5.683	5.683 (0.900)	129	2540				0.00- 40.88	10.88
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.317	6.317 (1.000)	152	21262	0.80000			80.00- 120.00	100.00
	6.311	6.311 (1.000)	122	6803				2.00- 62.00	32.00
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.345	6.345 (1.004)	142	13910	0.50000		0.48	80.00- 120.00	100.00
	6.345	6.345 (1.004)	141	11735				54.36- 114.36	84.36
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.445	6.445 (1.020)	142	14399	0.50000		0.52	80.00- 120.00	100.00
	6.445	6.445 (1.020)	141	12475				56.64- 116.64	86.64
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.224 (1.144)	152	24093	0.50000		0.55	80.00- 120.00	100.00
	7.220	7.220 (1.143)	151	4555				0.00- 48.91	18.91
	6 Acenaphthene						CAS #: 83-32-9		
	7.392	7.392 (1.170)	153	13910	0.50000		0.51	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.392	7.392 (1.170)		152	6584			17.33- 77.33	47.33
	7 Fluorene					CAS #: 86-73-7		
7.896	7.896 (1.250)		166	15551	0.50000	0.50	80.00- 120.00	100.00
7.896	7.896 (1.250)		165	14468			63.04- 123.04	93.04
	8 Pentachlorophenol					CAS #: 87-86-5		
8.634	8.634 (0.864)		266	10150	5.00000	4.5	80.00- 120.00	100.00(A)
8.634	8.634 (0.864)		264	6397			33.02- 93.02	63.02
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.885)		178	23494	0.50000	0.54	80.00- 120.00	100.00
8.839	8.839 (0.885)		179	3588			0.00- 45.27	15.27
	10 Anthracene					CAS #: 120-12-7		
8.888	8.888 (0.890)		178	20735	0.50000	0.49	80.00- 120.00	100.00
8.888	8.888 (0.890)		179	3111			0.00- 45.00	15.00
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.991	9.991 (1.000)		212	32823	0.80000		80.00- 120.00	100.00
9.985	9.985 (1.000)		106	5225			0.00- 45.92	15.92
	12 Fluoranthene					CAS #: 206-44-0		
10.007	10.007 (1.002)		202	25832	0.50000	0.54	80.00- 120.00	100.00
10.007	10.007 (1.002)		101	3403			0.00- 43.17	13.17
	13 Pyrene					CAS #: 129-00-0		
10.233	10.233 (1.024)		202	26943	0.50000	0.52	80.00- 120.00	100.00
10.227	10.227 (1.024)		101	3991			0.00- 44.81	14.81
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.401	11.401 (1.141)		226	6173	0.50000	0.52	80.00- 120.00	100.00
11.397	11.397 (1.141)		200	801			0.00- 42.98	12.98
	15 Chrysene					CAS #: 218-01-9		
11.436	11.436 (1.145)		226	6982	0.50000	0.52	80.00- 120.00	100.00
11.436	11.436 (1.145)		200	879			0.00- 42.59	12.59
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.390	12.390 (1.240)		252	23555	0.50000	0.53	80.00- 120.00	100.00
12.385	12.385 (1.240)		250	5648			0.00- 53.98	23.98
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.412 (1.242)		252	27877	0.50000	0.53	80.00- 120.00	100.00
12.412	12.412 (1.242)		250	6155			0.00- 52.08	22.08
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.615	12.615 (1.263)		264	24847	0.50000	0.54	80.00- 120.00	100.00
12.615	12.615 (1.263)		132	4345			0.00- 47.49	17.49
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.690	12.690 (1.270)		252	22958	0.50000	0.53	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.685	12.685 (1.270)		250	5515			0.00- 54.02	24.02
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.821	13.821 (1.383)		276	27894	0.50000	0.55	80.00- 120.00	100.00
13.821	13.821 (1.383)		138	8492			0.44- 60.44	30.44
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.830	13.830 (1.384)		278	23108	0.50000	0.53	80.00- 120.00	100.00
13.821	13.821 (1.383)		138	8506			6.81- 66.81	36.81
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.132	14.132 (1.414)		276	24083	0.50000	0.57	80.00- 120.00	100.00
14.132	14.132 (1.414)		138	6181			0.00- 55.67	25.67

QC Flag Legend

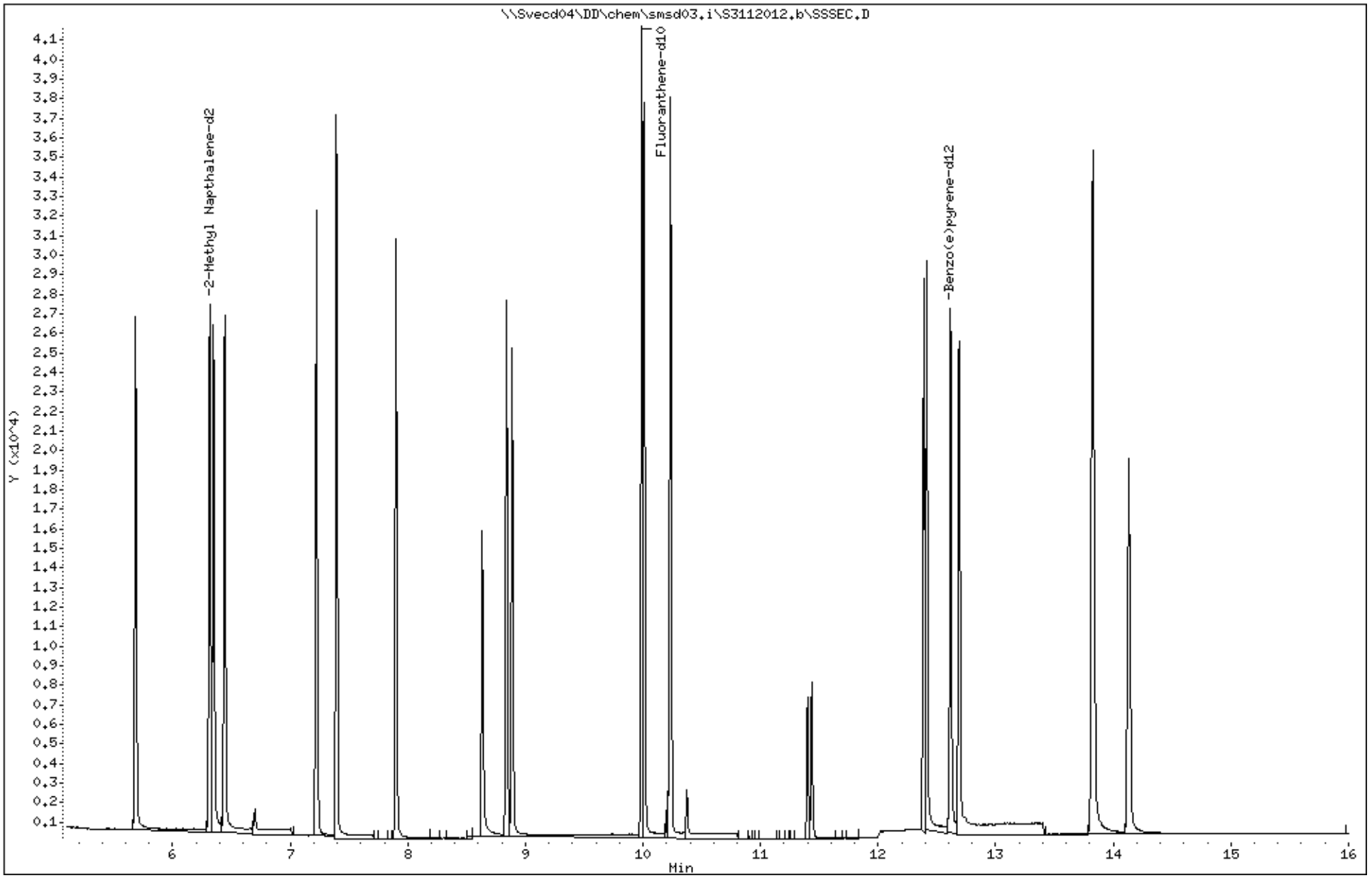
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112012.b\SSSEC.D
Date : 20-NOV-2012 20:13
Client ID: SSSEC
Sample Info: 47789

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

285



3507616

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\DFTPP2.D
Report Date: 30-Nov-2012 09:45

PEL Laboratories, Inc.

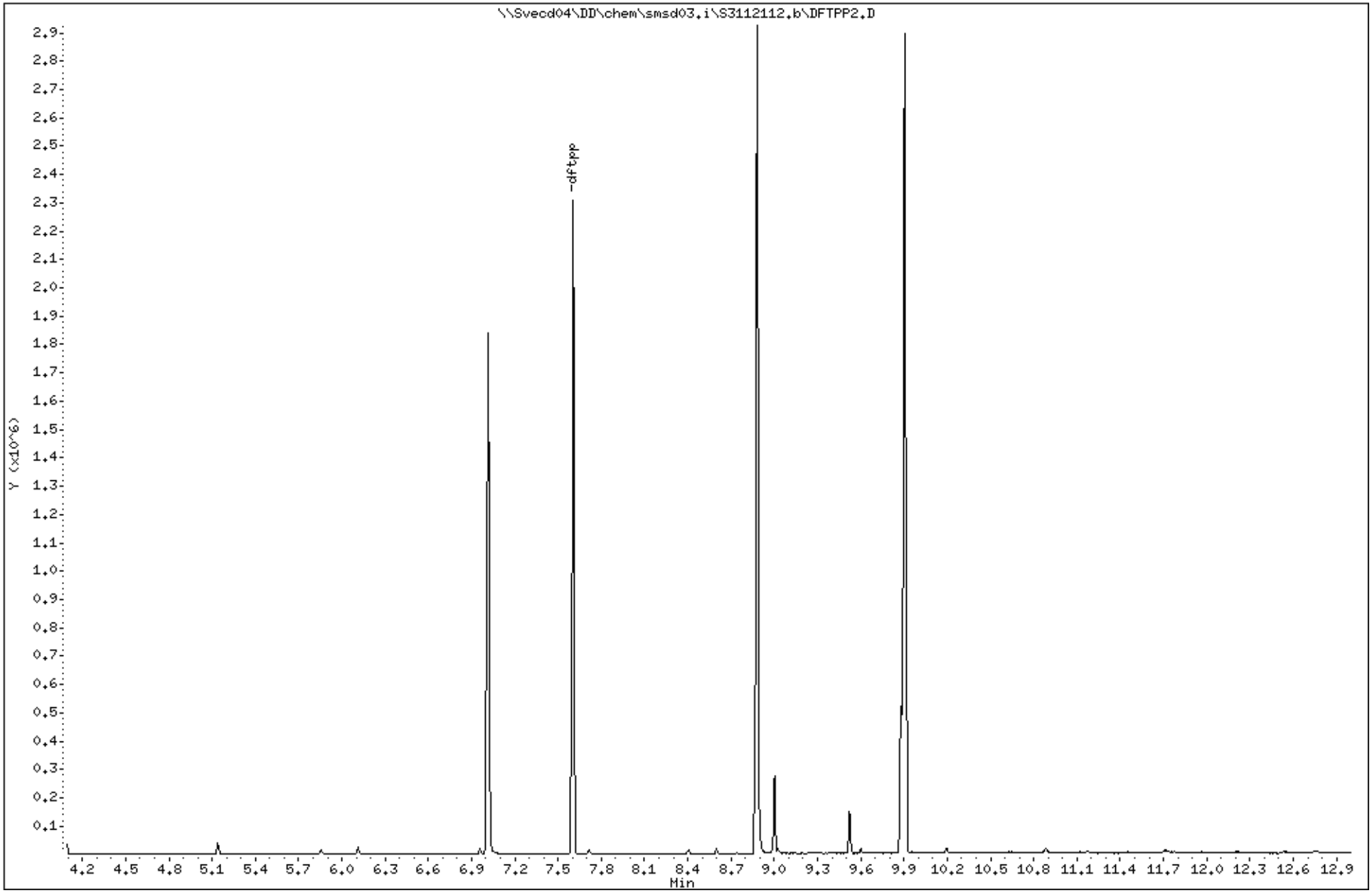
Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\DFTPP2.D
Lab Smp Id:
Inj Date : 21-NOV-2012 18:18
Operator : MJ Inst ID: smsd03.i
Smp Info : 47701
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\DoDTUN.m
Meth Date : 14-Sep-2012 08:05 mjacobs Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 100 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: WETCHEMDX500

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.603	7.713	(0.000)	198	228992			0.00- 100.00	100.00
7.603	7.713	(0.000)	51	63568			10.00- 80.00	27.76
7.603	7.713	(0.000)	68	1147			0.00- 2.00	1.42
7.603	7.713	(0.000)	69	80504			0.00- 0.00	35.16
7.603	7.713	(0.000)	70	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	127	104808			10.00- 80.00	45.77
7.603	7.713	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	199	15486			5.00- 9.00	6.76
7.603	7.713	(0.000)	275	56056			10.00- 60.00	24.48
7.603	7.713	(0.000)	365	5850			1.00- 0.00	2.55
7.603	7.713	(0.000)	441	28016			0.01- 24.00	14.19
7.603	7.713	(0.000)	442	197376			50.00- 0.00	86.19
7.603	7.713	(0.000)	443	39528			15.00- 24.00	20.03

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\DFTPP2.D
Date : 21-NOV-2012 18:18
Client ID:
Instrument: smsd03.i
Sample Info: 47701
Volume Injected (uL): 1.0
Operator: MJ
Column phase:
Column diameter: 2.00



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3507616

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\DFTPP2.D

Date : 21-NOV-2012 18:18

Client ID:

Instrument: smsd03.i

Sample Info: 47701

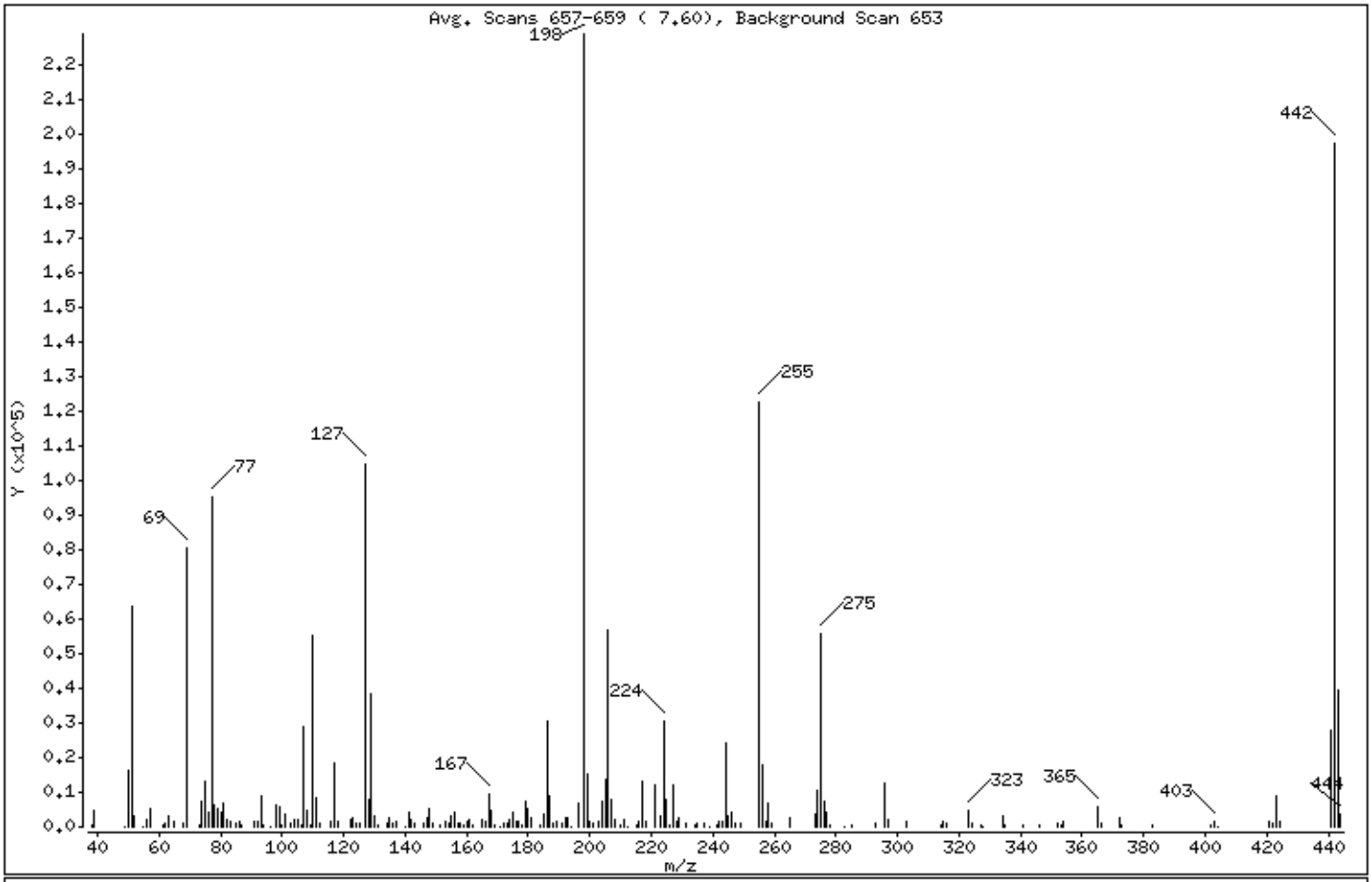
Volume Injected (uL): 1.0

Operator: MJ

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	27.76
68	Less than 2.00% of mass 69	0.50 (1.42)
69	Mass 69 relative abundance	35.16
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.77
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 60.00% of mass 198	24.48
365	Greater than 1.00% of mass 198	2.55
441	0.01 - 24.00% of mass 442	12.23 (14.19)
442	Greater than 50.00% of mass 198	86.19
443	15.00 - 24.00% of mass 442	17.26 (20.03)

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\DFTPP2.D

Date : 21-NOV-2012 18:18

Client ID: Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 657-659 (7.60), Background Scan 653
Location of Maximum: 198.00
Number of points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	627	118.00	1436	185.00	3782	257.00	1463
39.00	4501	122.00	1859	186.00	30576	258.00	6627
49.00	226	123.00	2827	187.00	8709	259.00	1041
50.00	16061	124.00	1221	188.00	954	265.00	2520
51.00	63568	125.00	1256	189.00	1676	273.00	3743
52.00	3103	127.00	104808	191.00	1036	274.00	10630
55.00	224	128.00	7722	192.00	2490	275.00	56056
56.00	2127	129.00	38296	193.00	2534	276.00	7166
57.00	5369	130.00	3409	194.00	223	277.00	4210
61.00	616	131.00	272	196.00	7074	278.00	542
62.00	1063	134.00	1072	198.00	228992	283.00	230
63.00	3030	135.00	2874	199.00	15486	285.00	704
65.00	1796	136.00	1168	200.00	1365	293.00	1057
68.00	1147	137.00	1682	201.00	1119	296.00	12873
69.00	80504	140.00	242	203.00	1798	297.00	1914
73.00	504	141.00	4419	204.00	7437	303.00	1752
74.00	7421	142.00	1896	205.00	13618	314.00	511
75.00	12977	143.00	1228	206.00	56720	315.00	1544
76.00	4375	146.00	867	207.00	7831	316.00	959
77.00	95256	147.00	2675	208.00	1995	323.00	4768
78.00	6250	148.00	5247	210.00	700	324.00	819
79.00	5453	149.00	1167	211.00	2147	327.00	780
80.00	4453	151.00	341	212.00	257	328.00	219
81.00	6701	153.00	1457	215.00	475	334.00	3369
82.00	1856	154.00	1275	216.00	1343	335.00	640
83.00	1804	155.00	2952	217.00	13375	341.00	283
85.00	1088	156.00	4219	218.00	1741	346.00	746
86.00	1596	157.00	990	221.00	11968	352.00	1235
87.00	623	158.00	1043	223.00	3348	353.00	694
91.00	1454	159.00	325	224.00	30776	354.00	1444
92.00	1503	160.00	1435	225.00	7667	365.00	5850
93.00	8930	161.00	2332	226.00	643	366.00	899
94.00	498	162.00	362	227.00	12258	372.00	2550
96.00	239	165.00	1972	228.00	1676	373.00	584
98.00	6465	166.00	1656	229.00	2453	383.00	519

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\DFTPP2.D

Date : 21-NOV-2012 18:18

Client ID: Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 657-659 (7.60), Background Scan 653
Location of Maximum: 198.00
Number of points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	5695	167.00	9680	231.00	951	402.00	721
100.00	506	168.00	4539	234.00	309	403.00	1374
101.00	3783	169.00	652	235.00	1003	404.00	236
103.00	1154	171.00	262	237.00	968	421.00	1382
104.00	2084	172.00	868	239.00	240	422.00	1100
105.00	2091	173.00	1190	241.00	327	423.00	8932
106.00	568	174.00	2126	242.00	1562	424.00	1718
107.00	28720	175.00	4141	243.00	1679	441.00	28016
108.00	4745	176.00	1584	244.00	24368	442.00	197376
109.00	533	177.00	1728	245.00	3327	443.00	39528
110.00	55400	178.00	495	246.00	4196	444.00	3780
111.00	8227	179.00	7195	247.00	925		
112.00	957	180.00	5458	249.00	858		
116.00	1499	181.00	2672	255.00	122656		
117.00	18480	184.00	354	256.00	17920		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/21/2012 18:58

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112112.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:37

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112112.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:45

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112112.b/DFTPP2.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SSCCV2.D
Lab Smp Id: 47785 Client Smp ID: SSCCV2
Inj Date : 21-NOV-2012 19:01 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : 47785
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.684	5.684 (0.900)	128	25844	0.50000		0.52	80.00- 120.00	100.00
	5.684	5.684 (0.900)	129	2659				0.00- 40.29	10.29
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.317	6.317 (1.000)	152	24524	0.80000			80.00- 120.00	100.00
	6.312	6.312 (1.000)	122	7847				2.00- 62.00	32.00
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.351	6.351 (1.005)	142	16293	0.50000		0.48	80.00- 120.00	100.00
	6.345	6.345 (1.004)	141	13965				55.71- 115.71	85.71
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.445	6.445 (1.020)	142	16122	0.50000		0.51	80.00- 120.00	100.00
	6.445	6.445 (1.020)	141	14047				57.13- 117.13	87.13
	5 Acenaphthylene						CAS #: 208-96-8		
	7.223	7.223 (1.143)	152	26114	0.50000		0.52	80.00- 120.00	100.00
	7.223	7.223 (1.143)	151	5011				0.00- 49.19	19.19
	6 Acenaphthene						CAS #: 83-32-9		
	7.395	7.395 (1.171)	153	15916	0.50000		0.51	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.395	7.395 (1.171)		152	7382			16.38- 76.38	46.38
7 Fluorene						CAS #: 86-73-7		
7.900	7.900 (1.251)		166	19343	0.50000	0.54	80.00- 120.00	100.00
7.900	7.900 (1.251)		165	18002			63.07- 123.07	93.07
8 Pentachlorophenol						CAS #: 87-86-5		
8.639	8.639 (0.864)		266	14687	5.00000	4.6	80.00- 120.00	100.00(A)
8.639	8.639 (0.864)		264	9094			31.92- 91.92	61.92
9 Phenanthrene						CAS #: 85-01-8		
8.839	8.839 (0.884)		178	26685	0.50000	0.43	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	4036			0.00- 45.12	15.12
10 Anthracene						CAS #: 120-12-7		
8.893	8.893 (0.889)		178	29246	0.50000	0.48	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	4389			0.00- 45.01	15.01
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	46606	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	7533			0.00- 46.16	16.16
12 Fluoranthene						CAS #: 206-44-0		
10.014	10.014 (1.002)		202	33376	0.50000	0.49	80.00- 120.00	100.00
10.009	10.009 (1.001)		101	4478			0.00- 43.42	13.42
13 Pyrene						CAS #: 129-00-0		
10.240	10.240 (1.024)		202	34802	0.50000	0.47	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	5409			0.00- 45.54	15.54
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.404	11.404 (1.141)		226	7919	0.50000	0.47	80.00- 120.00	100.00
11.404	11.404 (1.141)		200	1053			0.00- 43.30	13.30
15 Chrysene						CAS #: 218-01-9		
11.443	11.443 (1.145)		226	8810	0.50000	0.46	80.00- 120.00	100.00
11.439	11.439 (1.144)		200	1104			0.00- 42.53	12.53
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.395	12.395 (1.240)		252	32314	0.50000	0.51	80.00- 120.00	100.00
12.395	12.395 (1.240)		250	7019			0.00- 51.72	21.72
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.417	12.417 (1.242)		252	33137	0.50000	0.44	80.00- 120.00	100.00
12.417	12.417 (1.242)		250	8777			0.00- 56.49	26.49
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.624	12.624 (1.263)		264	31856	0.50000	0.49	80.00- 120.00	100.00
12.620	12.620 (1.262)		132	5622			0.00- 47.65	17.65
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.695	12.695 (1.270)		252	29369	0.50000	0.48	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.695	12.695	(1.270)	250	6979			0.00- 53.76	23.76
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.835	13.835	(1.384)	276	32239	0.50000	0.44	80.00- 120.00	100.00
13.831	13.831	(1.383)	138	9694			0.07- 60.07	30.07
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.840	13.840	(1.384)	278	26112	0.50000	0.40	80.00- 120.00	100.00
13.831	13.831	(1.383)	138	9694			7.12- 67.12	37.12
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.147	14.147	(1.415)	276	27429	0.50000	0.46	80.00- 120.00	100.00
14.142	14.142	(1.415)	138	6977			0.00- 55.44	25.44

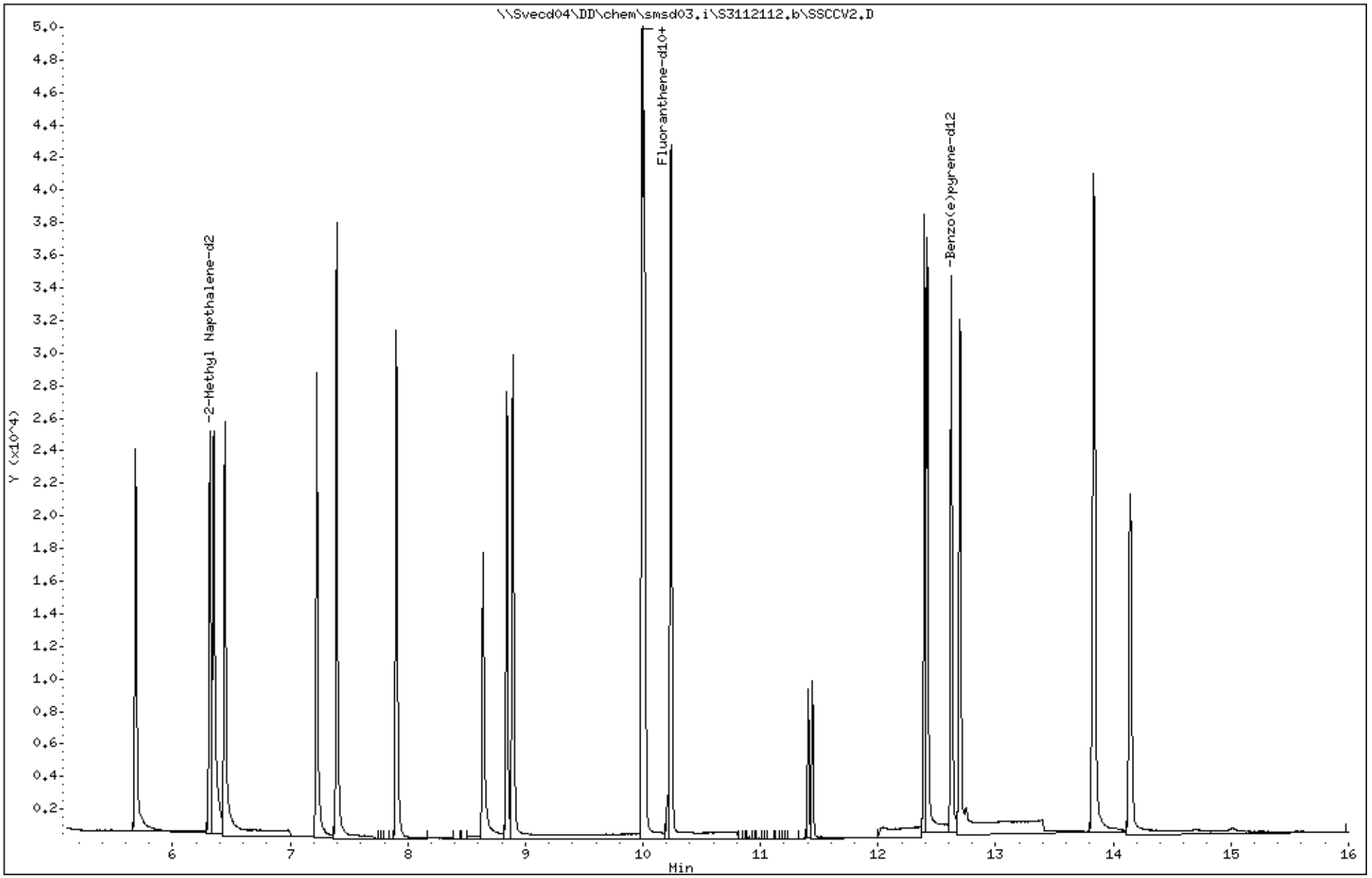
QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\SSCCV2.D
Date : 21-NOV-2012 19:01
Client ID: SSCCV2
Sample Info: 47785

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

295



3507616

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Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-01.D
Lab Smp Id: 350761601 Client Smp ID: CV0041A-CS
Inj Date : 21-NOV-2012 19:44 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761601
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.140	Weight of sample extracted (g)
M	20.900	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.686	5.684 (0.900)		128	45905	0.95598	48.1	80.00- 120.00	100.00
	5.686	5.684 (0.900)		129	4929			0.00- 40.29	10.74
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.319	6.317 (1.000)		152	23827	0.80000		80.00- 120.00	100.00
	6.314	6.312 (1.000)		122	8323			2.00- 62.00	34.93
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.347	6.351 (1.004)		142	34589	1.05904	53.2	80.00- 120.00	100.00
	6.347	6.345 (1.004)		141	28888			55.71- 115.71	83.52
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.447	6.445 (1.020)		142	26914	0.87516	44.0	80.00- 120.00	100.00
	6.447	6.445 (1.020)		141	22909			57.13- 117.13	85.12
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.223 (1.143)		152	10058	0.20617	10.4	80.00- 120.00	100.00
	7.224	7.223 (1.143)		151	2430			0.00- 49.19	24.16
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.395 (1.170)		153	4513	0.14868	7.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.170)		152	2365			16.38- 76.38	52.40
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.250)		166	5021	0.14408	7.2	80.00- 120.00	100.00
7.900	7.900 (1.250)		165	5606			63.07- 123.07	111.65
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.884)		178	138278	2.50815	126	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	22940			0.00- 45.12	16.59
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.890)		178	22909	0.42585	21.4	80.00- 120.00	100.00
8.893	8.893 (0.890)		179	4579			0.00- 45.01	19.99
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	41389	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	6478			0.00- 46.16	15.65
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.014 (1.002)		202	282356	4.65618	234	80.00- 120.00	100.00
10.013	10.009 (1.002)		101	39463			0.00- 43.42	13.98
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	242872	3.70849	186	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	41980			0.00- 45.54	17.28
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	44445	3.07494	155	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	5776			0.00- 43.30	13.00
	15 Chrysene					CAS #: 218-01-9		
11.440	11.443 (1.144)		226	58795	3.44928	173	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	5695			0.00- 42.53	9.69
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.395 (1.240)		252	229554	4.87559	245	80.00- 120.00	100.00(M)
12.395	12.395 (1.240)		250	59431			0.00- 51.72	25.89
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.413	12.417 (1.242)		252	94211	1.42149	71.5	80.00- 120.00	100.00(M)
12.413	12.417 (1.242)		250	20292			0.00- 56.49	21.54
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.624	12.624 (1.263)		264	19133	0.32963	16.6	80.00- 120.00	100.00
12.620	12.620 (1.262)		132	3193			0.00- 47.65	16.69
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.695 (1.270)		252	141898	2.61849	132	80.00- 120.00	100.00
12.695	12.695 (1.270)		250	34485			0.00- 53.76	24.30
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.835	13.835 (1.384)		276	90882	1.41221	71.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	20 Indeno[1,2,3-cd]pyrene (continued)							
13.835	13.831 (1.384)		138	24853			0.07- 60.07	27.35
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.840	13.840 (1.384)		278	27604	0.49871	25.1	80.00- 120.00	100.00(Q)
13.835	13.831 (1.384)		138	22511			7.12- 67.12	81.55
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.151	14.147 (1.415)		276	99937	1.88120	94.6	80.00- 120.00	100.00
14.146	14.142 (1.415)		138	25302			0.00- 55.44	25.32

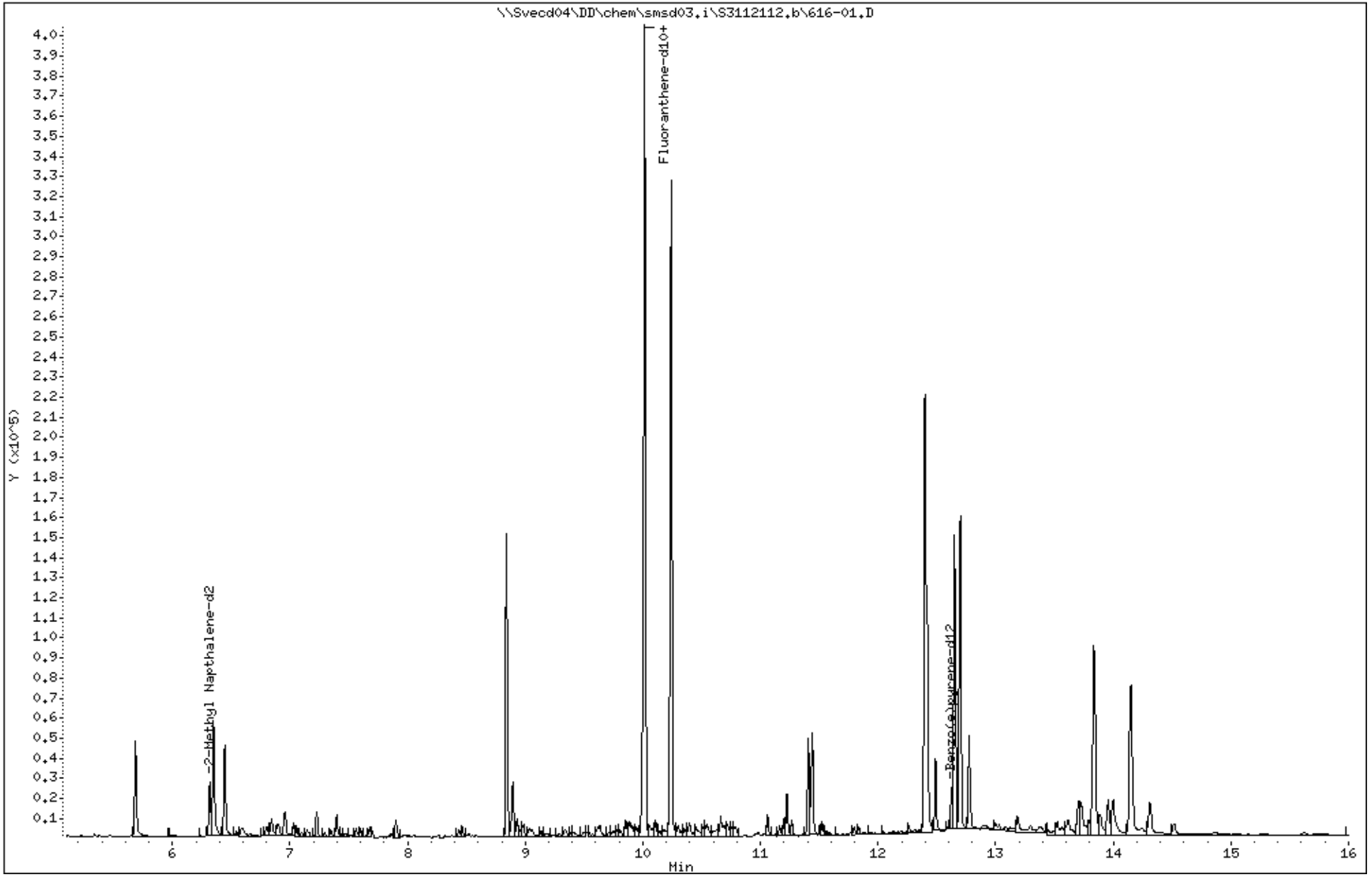
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-01.D
Date : 21-NOV-2012 19:44
Client ID: CV0041A-CS
Sample Info: SIM350761601

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

299



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-02.D
Lab Smp Id: 350761602 Client Smp ID: CV0041B-CS
Inj Date : 21-NOV-2012 20:08 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761602
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.310	Weight of sample extracted (g)
M	16.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.683	5.684 (0.900)		128	45616	0.95517	45.1	80.00- 120.00	100.00
5.683	5.684 (0.900)		129	4866			0.00- 40.29	10.67
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	23697	0.80000		80.00- 120.00	100.00
6.311	6.312 (1.000)		122	8292			2.00- 62.00	34.99
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.350	6.351 (1.005)		142	34106	1.04998	49.6	80.00- 120.00	100.00
6.345	6.345 (1.004)		141	28403			55.71- 115.71	83.28
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.445	6.445 (1.020)		142	24535	0.80218	37.9	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	20741			57.13- 117.13	84.54
	5 Acenaphthylene					CAS #: 208-96-8		
7.224	7.223 (1.144)		152	9734	0.20062	9.5	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	1798			0.00- 49.19	18.47
	6 Acenaphthene					CAS #: 83-32-9		
7.396	7.395 (1.171)		153	3530	0.11693	5.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.171)		152	1912			16.38- 76.38	54.16
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.251)		166	4597	0.13264	6.3	80.00- 120.00	100.00
7.896	7.900 (1.250)		165	5246			63.07- 123.07	114.12
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.884)		178	96974	1.63887	77.4	80.00- 120.00	100.00
8.839	8.844 (0.884)		179	16389			0.00- 45.12	16.90
	10 Anthracene					CAS #: 120-12-7		
8.888	8.893 (0.889)		178	17011	0.29462	13.9	80.00- 120.00	100.00
8.888	8.893 (0.889)		179	3733			0.00- 45.01	21.94
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.996	9.998 (1.000)		212	44422	0.80000		80.00- 120.00	100.00
9.991	9.992 (1.000)		106	7363			0.00- 46.16	16.58
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.014 (1.002)		202	182733	2.80761	132	80.00- 120.00	100.00
10.007	10.009 (1.001)		101	25674			0.00- 43.42	14.05
	13 Pyrene					CAS #: 129-00-0		
10.238	10.240 (1.024)		202	159299	2.26631	107	80.00- 120.00	100.00
10.232	10.234 (1.024)		101	27183			0.00- 45.54	17.06
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.405	11.404 (1.141)		226	32990	2.12168	100	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	2713			0.00- 43.30	8.22
	15 Chrysene					CAS #: 218-01-9		
11.440	11.443 (1.144)		226	43835	2.39605	113	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	4034			0.00- 42.53	9.20
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.398	12.395 (1.240)		252	180421	3.54030	167	80.00- 120.00	100.00(M)
12.398	12.395 (1.240)		250	46600			0.00- 51.72	25.83
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.242)		252	74468	1.04688	49.4	80.00- 120.00	100.00(M)
12.412	12.417 (1.242)		250	16145			0.00- 56.49	21.68
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.623	12.624 (1.263)		264	18320	0.29408	13.9	80.00- 120.00	100.00
12.623	12.620 (1.263)		132	3400			0.00- 47.65	18.56
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.698	12.695 (1.270)		252	103532	1.78007	84.0	80.00- 120.00	100.00
12.694	12.695 (1.270)		250	25154			0.00- 53.76	24.30
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.834	13.835 (1.384)		276	74303	1.07576	50.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.834	13.831	(1.384)	138	21388			0.07- 60.07	28.78
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.839	13.840	(1.384)	278	22300	0.34505	16.3	80.00- 120.00	100.00(Q)
13.834	13.831	(1.384)	138	20988			7.12- 67.12	94.12
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.150	14.147	(1.416)	276	81324	1.42631	67.3	80.00- 120.00	100.00
14.150	14.142	(1.416)	138	20036			0.00- 55.44	24.64

QC Flag Legend

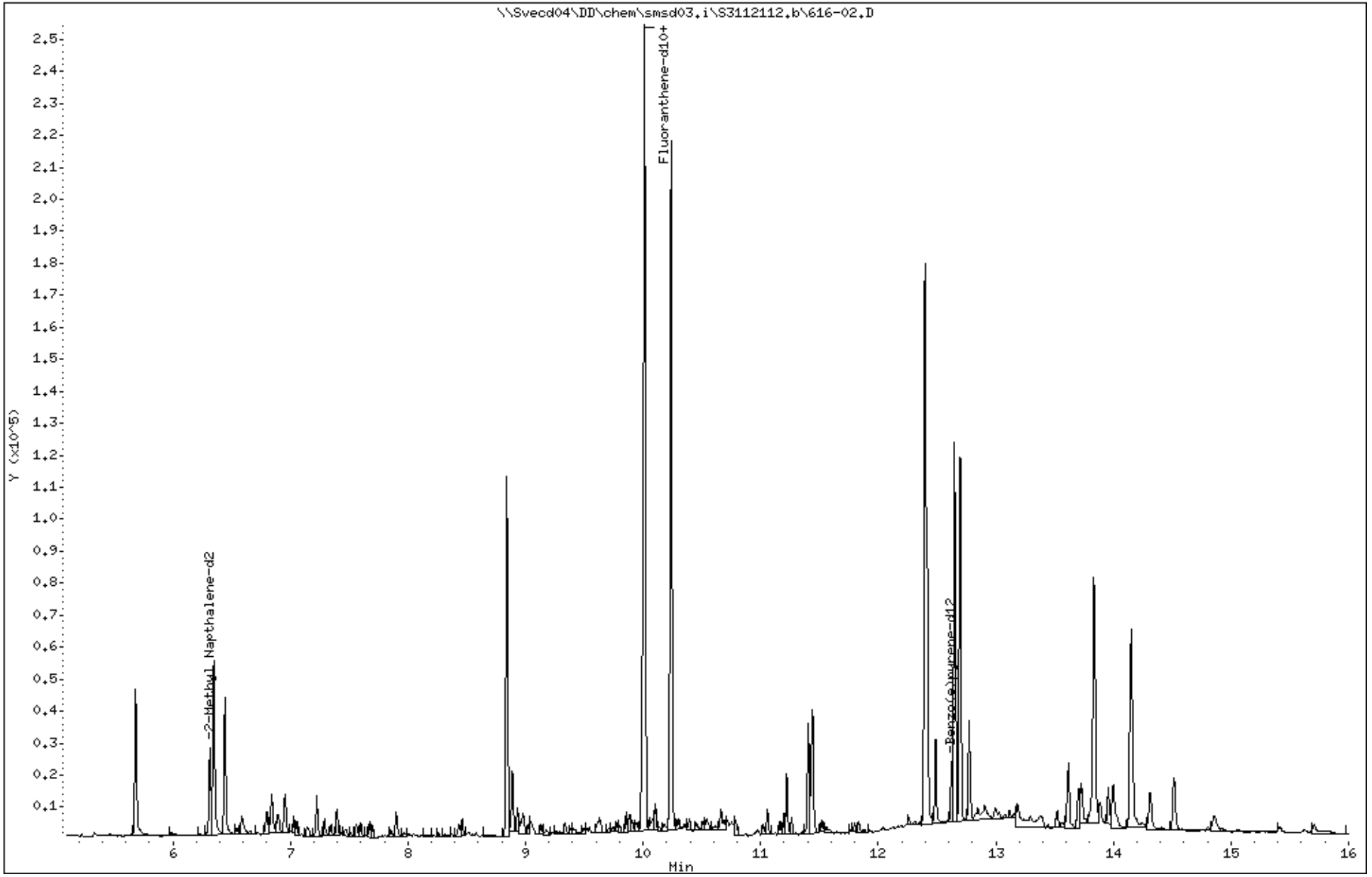
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-02.D
Date : 21-NOV-2012 20:08
Client ID: CV0041B-CS
Sample Info: SIM350761602

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

303

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-03.D
Lab Smp Id: 350761603 Client Smp ID: CV0043A-CS
Inj Date : 21-NOV-2012 20:31 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761603
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.060	Weight of sample extracted (g)
M	22.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.683	5.684 (0.900)		128	79070	1.75766	89.9	80.00- 120.00	100.00
	5.688	5.684 (0.901)		129	10103			0.00- 40.29	12.78
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.316	6.317 (1.000)		152	22322	0.80000		80.00- 120.00	100.00
	6.311	6.312 (1.000)		122	7966			2.00- 62.00	35.69
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.350	6.351 (1.005)		142	53187	1.73827	88.9	80.00- 120.00	100.00
	6.350	6.345 (1.005)		141	44269			55.71- 115.71	83.23
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.444	6.445 (1.020)		142	30234	1.04940	53.7	80.00- 120.00	100.00
	6.444	6.445 (1.020)		141	26328			57.13- 117.13	87.08
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.223 (1.144)		152	13838	0.30277	15.5	80.00- 120.00	100.00
	7.224	7.223 (1.144)		151	2608			0.00- 49.19	18.85
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.395 (1.171)		153	3260	0.11464	5.9	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.171)		152	1741			16.38- 76.38	53.40
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.251)		166	4078	0.12491	6.4	80.00- 120.00	100.00
7.896	7.900 (1.250)		165	4761			63.07- 123.07	116.75
	9 Phenanthrene					CAS #: 85-01-8		
8.840	8.839 (0.884)		178	101770	1.99891	102	80.00- 120.00	100.00
8.840	8.844 (0.884)		179	17106			0.00- 45.12	16.81
	10 Anthracene					CAS #: 120-12-7		
8.888	8.893 (0.889)		178	19501	0.39253	20.1	80.00- 120.00	100.00
8.894	8.893 (0.890)		179	3701			0.00- 45.01	18.98
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	38222	0.80000		80.00- 120.00	100.00
9.991	9.992 (1.000)		106	5790			0.00- 46.16	15.15
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.014 (1.002)		202	186076	3.32273	170	80.00- 120.00	100.00
10.008	10.009 (1.001)		101	25563			0.00- 43.42	13.74
	13 Pyrene					CAS #: 129-00-0		
10.238	10.240 (1.024)		202	173196	2.86371	146	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	28749			0.00- 45.54	16.60
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.405	11.404 (1.141)		226	34209	2.56022	131	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	3918			0.00- 43.30	11.45
	15 Chrysene					CAS #: 218-01-9		
11.440	11.443 (1.144)		226	42930	2.72722	140	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	4541			0.00- 42.53	10.58
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.398	12.395 (1.240)		252	197479	4.53418	232	80.00- 120.00	100.00(M)
12.398	12.395 (1.240)		250	51380			0.00- 51.72	26.02
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.411	12.417 (1.241)		252	94100	1.53745	78.6	80.00- 120.00	100.00(M)
12.411	12.417 (1.241)		250	21063			0.00- 56.49	22.38
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.627	12.624 (1.263)		264	17885	0.33366	17.1	80.00- 120.00	100.00
12.623	12.620 (1.263)		132	3122			0.00- 47.65	17.46
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.698	12.695 (1.270)		252	118543	2.36877	121	80.00- 120.00	100.00
12.698	12.695 (1.270)		250	28631			0.00- 53.76	24.15
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.834	13.835 (1.384)		276	86958	1.46320	74.8	80.00- 120.00	100.00

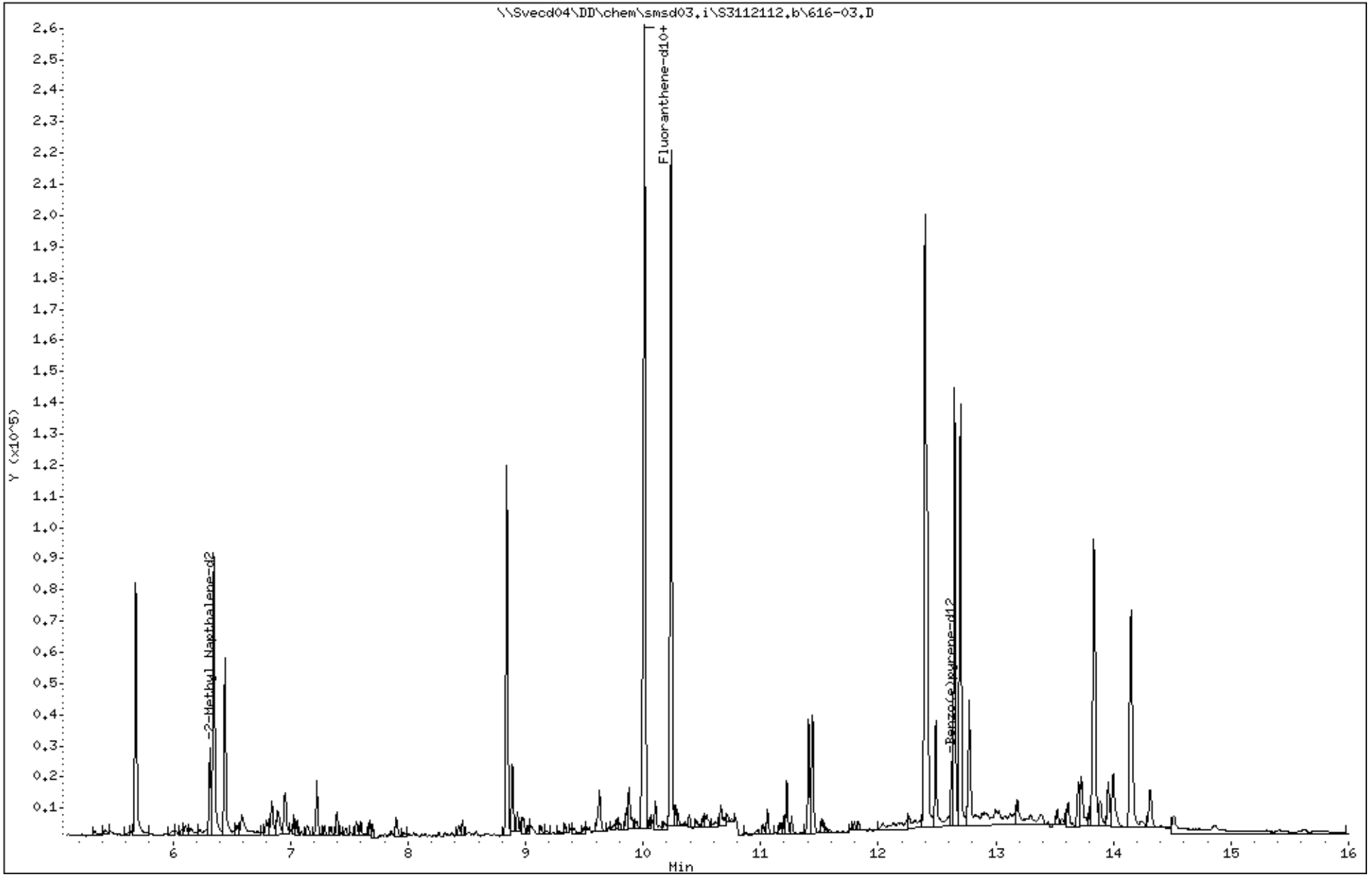
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.834	13.831	(1.384)	138	24053			0.07- 60.07	27.66
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.839	13.840	(1.384)	278	26539	0.52423	26.8	80.00- 120.00	100.00(Q)
13.834	13.831	(1.384)	138	21202			7.12- 67.12	79.89
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.150	14.147	(1.415)	276	91385	1.86275	95.3	80.00- 120.00	100.00
14.150	14.142	(1.415)	138	23087			0.00- 55.44	25.26

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-03.D
Date : 21-NOV-2012 20:31
Client ID: CV0043A-CS
Sample Info: SIM350761603

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-04.D
Lab Smp Id: 350761604 Client Smp ID: CV0043B-CS
Inj Date : 21-NOV-2012 20:55 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761604
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.080	Weight of sample extracted (g)
M	24.400	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.683	5.684 (0.900)		128	27563	0.56870	30.0	80.00- 120.00	100.00
5.683	5.684 (0.900)		129	2830			0.00- 40.29	10.27
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	24049	0.80000		80.00- 120.00	100.00
6.311	6.312 (1.000)		122	7476			2.00- 62.00	31.09
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.350	6.351 (1.005)		142	16794	0.50945	26.9	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	13949			55.71- 115.71	83.06
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.445	6.445 (1.020)		142	11595	0.37355	19.7	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	9830			57.13- 117.13	84.78
	5 Acenaphthylene					CAS #: 208-96-8		
7.224	7.223 (1.144)		152	3942	0.08006	4.2	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	764			0.00- 49.19	19.38
	6 Acenaphthene					CAS #: 83-32-9		
7.396	7.395 (1.171)		153	1932	0.06306	3.3	80.00- 120.00	100.00

					CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
6 Acenaphthene (continued)								
7.396	7.395 (1.171)		152	984			16.38- 76.38	50.93
7 Fluorene						CAS #: 86-73-7		
7.900	7.900 (1.251)		166	2599	0.07389	3.9	80.00- 120.00	100.00
7.900	7.900 (1.251)		165	2752			63.07- 123.07	105.89
9 Phenanthrene						CAS #: 85-01-8		
8.839	8.839 (0.884)		178	54722	0.96729	51.0	80.00- 120.00	100.00(H)
8.839	8.844 (0.884)		179	8845			0.00- 45.12	16.16
10 Anthracene						CAS #: 120-12-7		
8.893	8.893 (0.890)		178	7908	0.14325	7.6	80.00- 120.00	100.00
8.893	8.893 (0.890)		179	1672			0.00- 45.01	21.14
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	42471	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	6693			0.00- 46.16	15.76
12 Fluoranthene						CAS #: 206-44-0		
10.014	10.014 (1.002)		202	106804	1.71638	90.5	80.00- 120.00	100.00
10.008	10.009 (1.001)		101	15098			0.00- 43.42	14.14
13 Pyrene						CAS #: 129-00-0		
10.239	10.240 (1.024)		202	85212	1.26798	66.9	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	15062			0.00- 45.54	17.68
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.405	11.404 (1.141)		226	15311	1.02173	53.9	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	1362			0.00- 43.30	8.90
15 Chrysene						CAS #: 218-01-9		
11.440	11.443 (1.144)		226	20360	1.16401	61.4	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	1946			0.00- 42.53	9.56
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.394	12.395 (1.240)		252	99646	1.99764	105	80.00- 120.00	100.00(M)
12.394	12.395 (1.240)		250	22902			0.00- 51.72	22.98
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.416	12.417 (1.242)		252	39027	0.57385	30.3	80.00- 120.00	100.00(M)
12.411	12.417 (1.241)		250	8717			0.00- 56.49	22.34
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.623	12.624 (1.263)		264	18373	0.30848	16.3	80.00- 120.00	100.00
12.619	12.620 (1.262)		132	3161			0.00- 47.65	17.20
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.698	12.695 (1.270)		252	56328	1.01296	53.4	80.00- 120.00	100.00
12.694	12.695 (1.270)		250	13456			0.00- 53.76	23.89
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.834	13.835 (1.384)		276	37636	0.56992	30.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.830	13.831	(1.383)	138	9187			0.07- 60.07	24.41
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.839	13.840	(1.384)	278	11977	0.14009	7.4	80.00- 120.00	100.00(Q)
13.830	13.831	(1.383)	138	9554			7.12- 67.12	79.77
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.146	14.147	(1.415)	276	43745	0.80247	42.3	80.00- 120.00	100.00
14.146	14.142	(1.415)	138	10878			0.00- 55.44	24.87

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

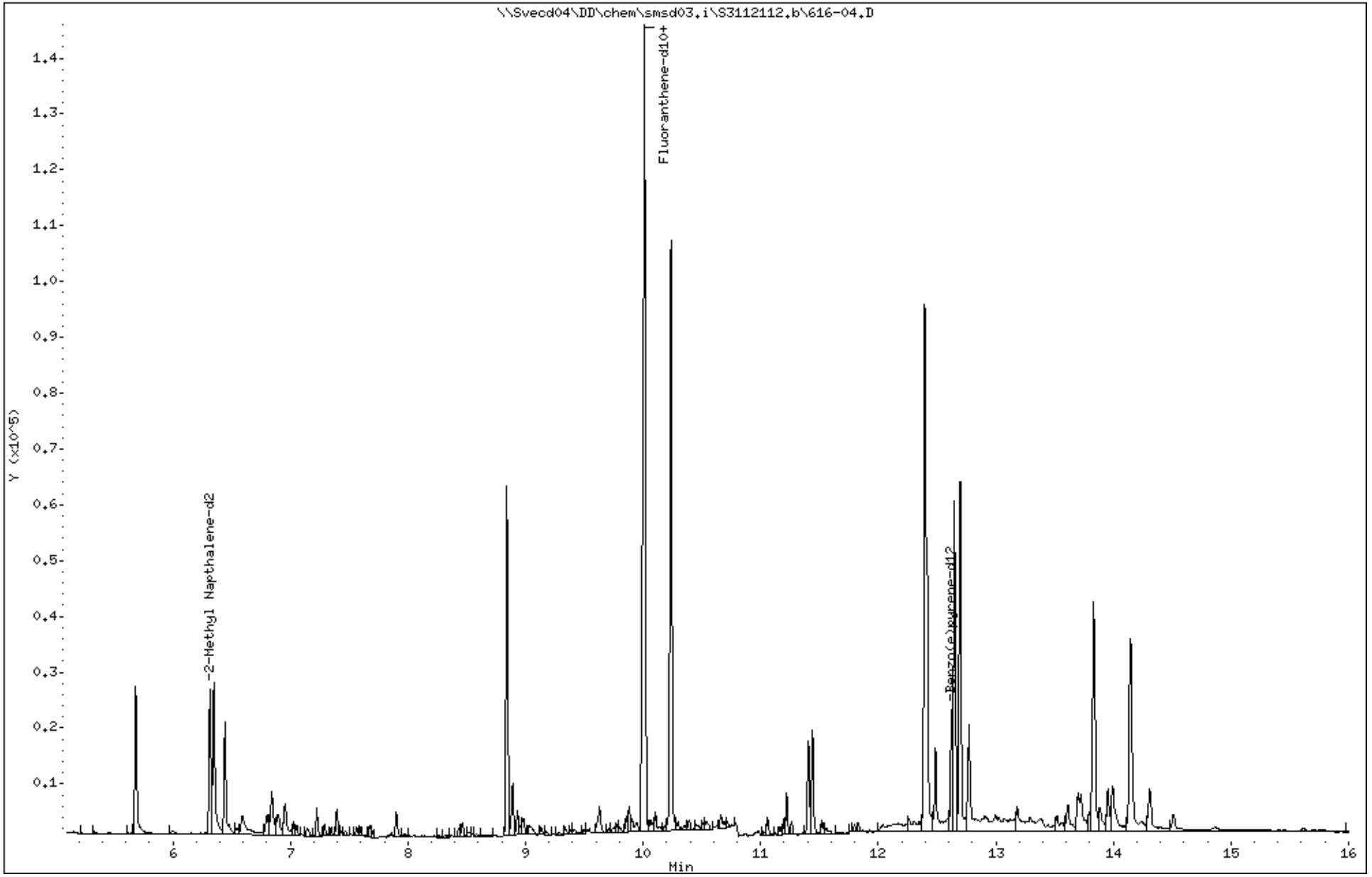
Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-04.D
Date : 21-NOV-2012 20:55
Client ID: CV0043B-CS
Sample Info: SIM350761604

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

311

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-06.D
Lab Smp Id: 350761606 Client Smp ID: CV0192A-CS
Inj Date : 21-NOV-2012 21:18 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761606
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.030	Weight of sample extracted (g)
M	18.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.684	5.684 (0.900)		128	204770	3.99367	194	80.00- 120.00	100.00
	5.684	5.684 (0.900)		129	23798			0.00- 40.29	11.62
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.317	6.317 (1.000)		152	25442	0.80000		80.00- 120.00	100.00
	6.312	6.312 (1.000)		122	11886			2.00- 62.00	46.72
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.350	6.351 (1.005)		142	249972	7.16779	349	80.00- 120.00	100.00
	6.350	6.345 (1.005)		141	209592			55.71- 115.71	83.85
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.445	6.445 (1.020)		142	196473	5.98316	292	80.00- 120.00	100.00
	6.445	6.445 (1.020)		141	169935			57.13- 117.13	86.49
	5 Acenaphthylene						CAS #: 208-96-8		
	7.224	7.223 (1.144)		152	14776	0.28365	13.8	80.00- 120.00	100.00
	7.224	7.223 (1.144)		151	3630			0.00- 49.19	24.57
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.395 (1.171)		153	9603	0.29628	14.4	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.401	7.395 (1.172)		152	6558			16.38- 76.38	68.29
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.251)		166	11729	0.31521	15.4	80.00- 120.00	100.00(Q)
7.896	7.900 (1.250)		165	16387			63.07- 123.07	139.71
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.884)		178	270710	4.42182	215	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	48859			0.00- 45.12	18.05
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.890)		178	18272	0.30587	14.9	80.00- 120.00	100.00
8.887	8.893 (0.889)		179	5991			0.00- 45.01	32.79
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	45961	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	7256			0.00- 46.16	15.79
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.014 (1.002)		202	148797	2.20965	108	80.00- 120.00	100.00
10.014	10.009 (1.002)		101	21837			0.00- 43.42	14.68
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	148913	2.04761	99.8	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	25237			0.00- 45.54	16.95
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.405	11.404 (1.141)		226	30524	1.89566	92.4	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	2818			0.00- 43.30	9.23
	15 Chrysene					CAS #: 218-01-9		
11.441	11.443 (1.144)		226	43233	2.28401	111	80.00- 120.00	100.00
11.441	11.439 (1.144)		200	5798			0.00- 42.53	13.41
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.398	12.395 (1.240)		252	133550	2.50083	122	80.00- 120.00	100.00(M)
12.398	12.395 (1.240)		250	34105			0.00- 51.72	25.54
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.241)		252	60507	0.82213	40.0	80.00- 120.00	100.00(M)
12.412	12.417 (1.241)		250	14162			0.00- 56.49	23.41
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	16201	0.25135	12.2	80.00- 120.00	100.00
12.623	12.620 (1.263)		132	2585			0.00- 47.65	15.96
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.698	12.695 (1.270)		252	81459	1.35366	66.0	80.00- 120.00	100.00
12.698	12.695 (1.270)		250	19953			0.00- 53.76	24.49
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.835	13.835 (1.384)		276	44365	0.62081	30.2	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	20 Indeno[1,2,3-cd]pyrene (continued)							
13.835	13.831	(1.384)	138	12777			0.07- 60.07	28.80
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.839	13.840	(1.384)	278	17401	0.23008	11.2	80.00- 120.00	100.00(Q)
13.835	13.831	(1.384)	138	12752			7.12- 67.12	73.28
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.150	14.147	(1.415)	276	54554	0.92476	45.0	80.00- 120.00	100.00
14.150	14.142	(1.415)	138	13313			0.00- 55.44	24.40

QC Flag Legend

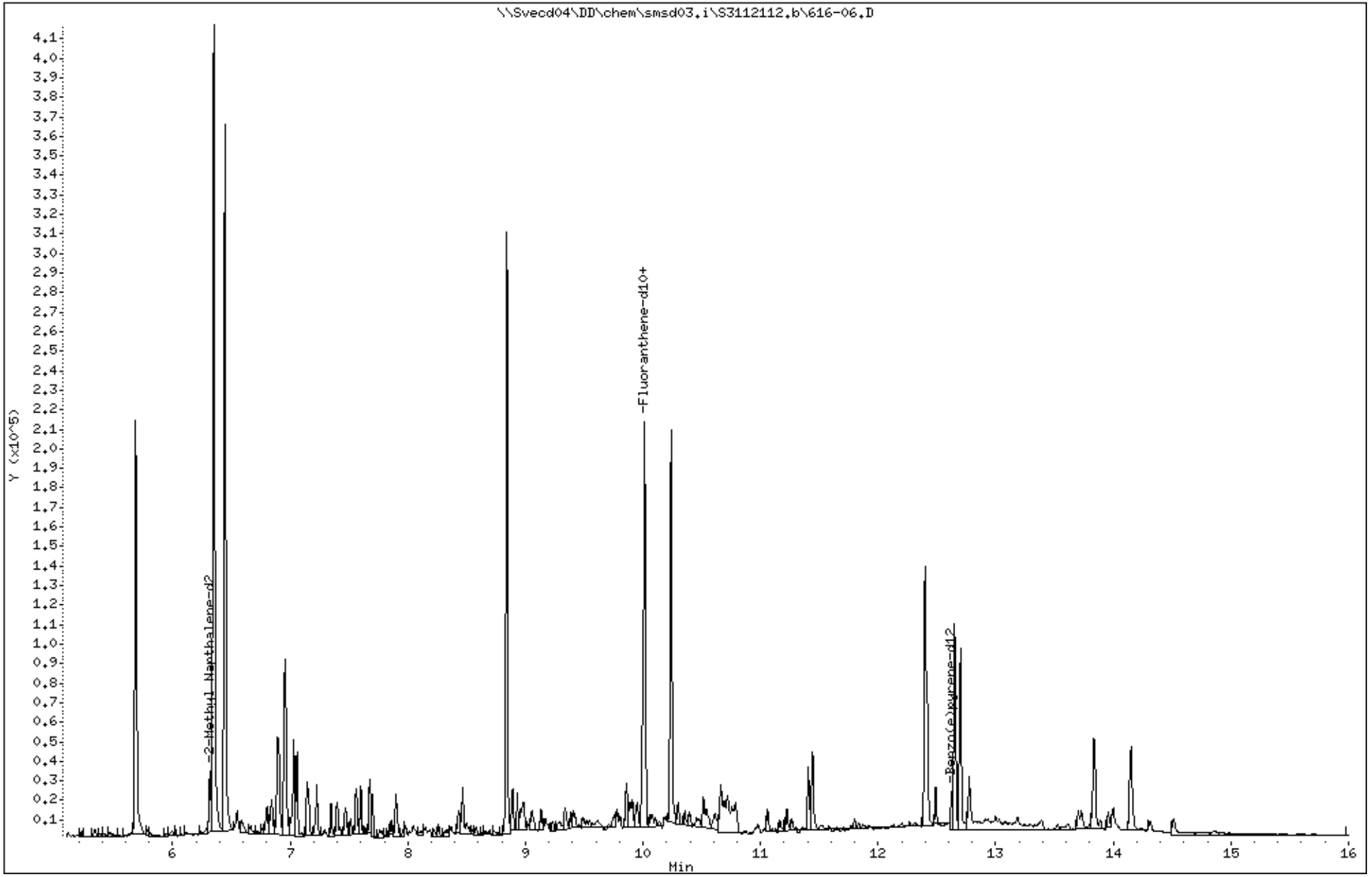
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-06.D
Date : 21-NOV-2012 21:18
Client ID: CV0192A-CS
Sample Info: SIM350761606

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

315



3507616

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Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-07.D
Lab Smp Id: 350761607 Client Smp ID: CV0192B-CS
Inj Date : 21-NOV-2012 21:42 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761607
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.270	Weight of sample extracted (g)
M	17.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
1 Naphthalene							CAS #: 91-20-3	
5.684	5.684 (0.900)		128	85465	1.67779	80.6	80.00- 120.00	100.00
5.684	5.684 (0.900)		129	9426			0.00- 40.29	11.03
* 2 2-Methyl Napthalene-d2							CAS #: 7927-45-2	
6.317	6.317 (1.000)		152	25276	0.80000		80.00- 120.00	100.00
6.312	6.312 (1.000)		122	9307			2.00- 62.00	36.82
3 2-Methylnaphthalene							CAS #: 91-57-6	
6.351	6.351 (1.005)		142	76960	2.22127	107	80.00- 120.00	100.00
6.345	6.345 (1.004)		141	64136			55.71- 115.71	83.34
4 1-Methylnaphthalene							CAS #: 90-12-0	
6.445	6.445 (1.020)		142	57637	1.76674	84.8	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	49717			57.13- 117.13	86.26
5 Acenaphthylene							CAS #: 208-96-8	
7.224	7.223 (1.144)		152	44950	0.86856	41.7	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	8704			0.00- 49.19	19.36
6 Acenaphthene							CAS #: 83-32-9	
7.396	7.395 (1.171)		153	17063	0.52990	25.4	80.00- 120.00	100.00

					CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
6 Acenaphthene (continued)								
7.396	7.395 (1.171)		152	8631			16.38- 76.38	50.58
7 Fluorene						CAS #: 86-73-7		
7.900	7.900 (1.251)		166	17513	0.47375	22.8	80.00- 120.00	100.00
7.896	7.900 (1.250)		165	18355			63.07- 123.07	104.81
9 Phenanthrene						CAS #: 85-01-8		
8.839	8.839 (0.884)		178	291473	4.96311	238	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	49840			0.00- 45.12	17.10
10 Anthracene						CAS #: 120-12-7		
8.893	8.893 (0.890)		178	70101	1.22328	58.7	80.00- 120.00	100.00
8.893	8.893 (0.890)		179	13931			0.00- 45.01	19.87
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	44089	0.80000		80.00- 120.00	100.00
9.991	9.992 (1.000)		106	6714			0.00- 46.16	15.23
12 Fluoranthene						CAS #: 206-44-0		
10.013	10.014 (1.002)		202	398168	6.16388	296	80.00- 120.00	100.00
10.013	10.009 (1.002)		101	57397			0.00- 43.42	14.42
13 Pyrene						CAS #: 129-00-0		
10.238	10.240 (1.024)		202	335969	4.81586	231	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	59254			0.00- 45.54	17.64
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.409	11.404 (1.141)		226	69266	4.50610	216	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	8000			0.00- 43.30	11.55
15 Chrysene						CAS #: 218-01-9		
11.440	11.443 (1.144)		226	80672	4.44289	213	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	11128			0.00- 42.53	13.79
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.399	12.395 (1.240)		252	376788	7.57347	364	80.00- 120.00	100.00(M)
12.399	12.395 (1.240)		250	99811			0.00- 51.72	26.49
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.412	12.417 (1.242)		252	177113	2.50868	120	80.00- 120.00	100.00(M)
12.407	12.417 (1.241)		250	53071			0.00- 56.49	29.96
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	14422	0.23325	11.2	80.00- 120.00	100.00(R)
12.623	12.620 (1.263)		132	2247			0.00- 47.65	15.58
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.698	12.695 (1.270)		252	203308	3.52196	169	80.00- 120.00	100.00
12.698	12.695 (1.270)		250	49935			0.00- 53.76	24.56
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.839	13.835 (1.384)		276	135918	1.98268	95.2	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.834	13.831	(1.384)	138	35038			0.07- 60.07	25.78
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.844	13.840	(1.385)	278	44331	0.81411	39.1	80.00- 120.00	100.00(Q)
13.834	13.831	(1.384)	138	31544			7.12- 67.12	71.16
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.150	14.147	(1.415)	276	147183	2.60088	125	80.00- 120.00	100.00
14.150	14.142	(1.415)	138	38249			0.00- 55.44	25.99

QC Flag Legend

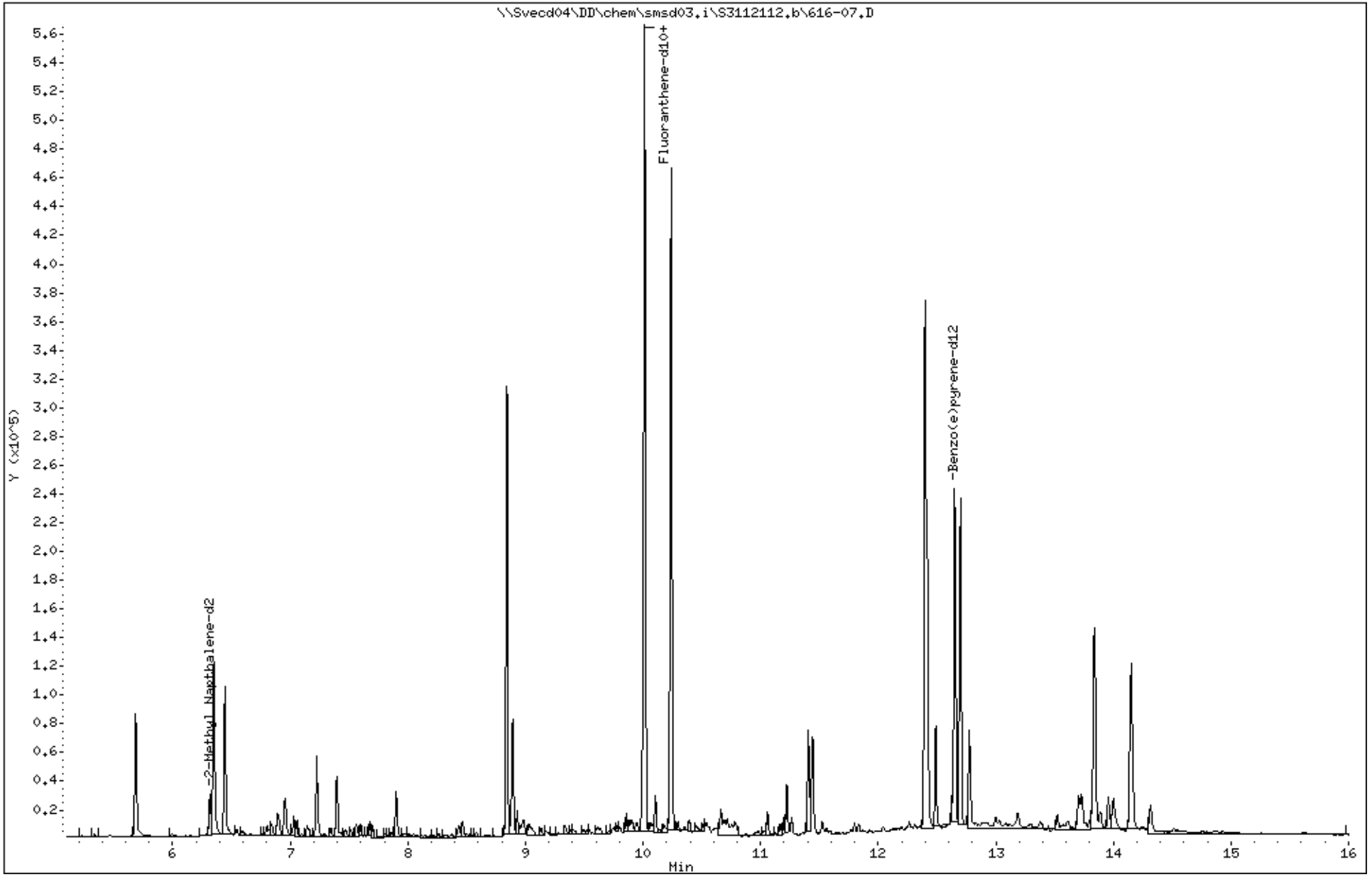
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-07.D
Date : 21-NOV-2012 21:42
Client ID: CV0192B-CS
Sample Info: SIM350761607

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

319

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-08.D
Lab Smp Id: 350761608 Client Smp ID: FM0263A-CS-SP
Inj Date : 21-NOV-2012 22:05 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761608
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.210	Weight of sample extracted (g)
M	20.800	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.684	5.684 (0.900)		128	64140	1.23934	62.1	80.00- 120.00	100.00
5.684	5.684 (0.900)		129	6908			0.00- 40.29	10.77
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	25680	0.80000		80.00- 120.00	100.00
6.312	6.312 (1.000)		122	8736			2.00- 62.00	34.02
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.351	6.351 (1.005)		142	31416	0.89248	44.7	80.00- 120.00	100.00
6.351	6.345 (1.005)		141	26247			55.71- 115.71	83.55
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.445	6.445 (1.020)		142	24558	0.74093	37.1	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	20622			57.13- 117.13	83.97
5 Acenaphthylene						CAS #: 208-96-8		
7.228	7.223 (1.144)		152	22211	0.42243	21.2	80.00- 120.00	100.00
7.223	7.223 (1.143)		151	4220			0.00- 49.19	19.00
6 Acenaphthene						CAS #: 83-32-9		
7.395	7.395 (1.171)		153	57161	1.74724	87.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.395	7.395 (1.171)		152	27911			16.38- 76.38	48.83
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.251)		166	59660	1.58849	79.6	80.00- 120.00	100.00
7.900	7.900 (1.251)		165	55738			63.07- 123.07	93.43
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.884)		178	709555	13.4981	676	80.00- 120.00	100.00(A)
8.845	8.844 (0.885)		179	121885			0.00- 45.12	17.18
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.889)		178	208501	4.06481	204	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	44581			0.00- 45.01	21.38
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.999	9.998 (1.000)		212	39464	0.80000		80.00- 120.00	100.00
9.993	9.992 (1.000)		106	6115			0.00- 46.16	15.50
	12 Fluoranthene					CAS #: 206-44-0		
10.015	10.014 (1.002)		202	1119243	19.3571	969	80.00- 120.00	100.00(A)
10.015	10.009 (1.002)		101	163178			0.00- 43.42	14.58
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240 (1.024)		202	978853	15.6755	785	80.00- 120.00	100.00(A)
10.240	10.234 (1.024)		101	180342			0.00- 45.54	18.42
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	170064	12.3879	620	80.00- 120.00	100.00(A)
11.405	11.404 (1.141)		200	24338			0.00- 43.30	14.31
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443 (1.145)		226	179820	11.0639	554	80.00- 120.00	100.00(A)
11.440	11.439 (1.144)		200	19786			0.00- 42.53	11.00
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.402	12.395 (1.240)		252	793301	17.9662	900	80.00- 120.00	100.00(AM)
12.402	12.395 (1.240)		250	215821			0.00- 51.72	27.21
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.415	12.417 (1.242)		252	354365	5.60758	281	80.00- 120.00	100.00(M)
12.415	12.417 (1.242)		250	82614			0.00- 56.49	23.31
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.627	12.624 (1.263)		264	16179	0.29234	14.6	80.00- 120.00	100.00
12.622	12.620 (1.262)		132	2673			0.00- 47.65	16.52
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.702	12.695 (1.270)		252	550782	10.6595	534	80.00- 120.00	100.00(A)
12.702	12.695 (1.270)		250	139576			0.00- 53.76	25.34
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	271291	4.42121	221	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.840	13.831	(1.384)	138	66483			0.07- 60.07	24.51
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.845	13.840	(1.385)	278	84031	1.86110	93.2	80.00- 120.00	100.00(Q)
13.840	13.831	(1.384)	138	72757			7.12- 67.12	86.58
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.156	14.147	(1.416)	276	258834	5.10991	256	80.00- 120.00	100.00
14.156	14.142	(1.416)	138	68291			0.00- 55.44	26.38

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

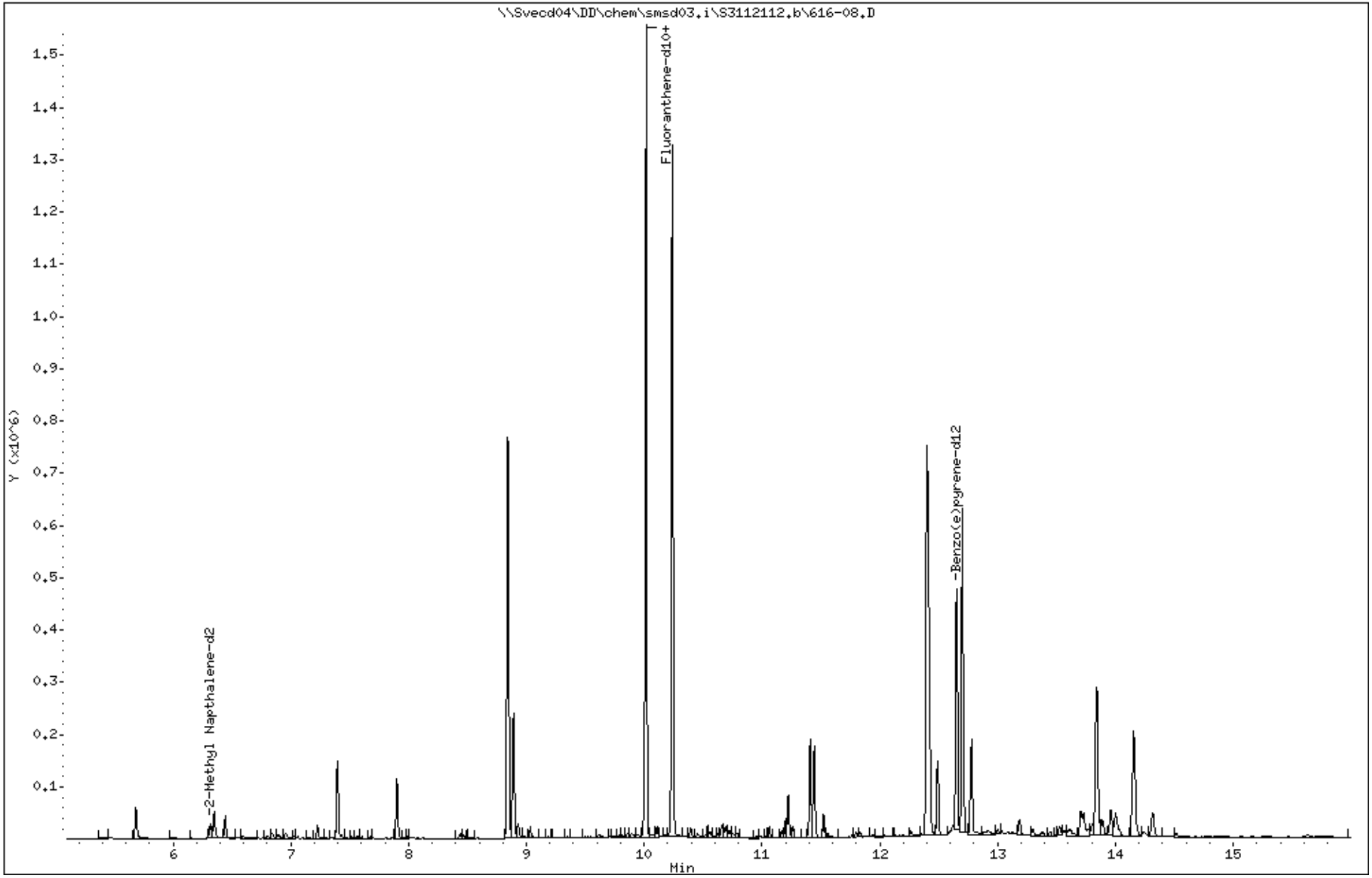
Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-08.D
Date : 21-NOV-2012 22:05
Client ID: FM0263A-CS-SP
Sample Info: SIM350761608

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

323

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-09.D
Lab Smp Id: 350761609 Client Smp ID: FM0263B-CS-SP
Inj Date : 21-NOV-2012 22:29 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761609
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.290	Weight of sample extracted (g)
M	17.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.688	5.684 (0.901)		128	55408	1.11535	53.4	80.00- 120.00	100.00
5.688	5.684 (0.901)		129	5694			0.00- 40.29	10.28
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.316	6.317 (1.000)		152	24650	0.80000		80.00- 120.00	100.00
6.316	6.312 (1.000)		122	9337			2.00- 62.00	37.88
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.350	6.351 (1.005)		142	40273	1.19191	57.1	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	33824			55.71- 115.71	83.99
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.444	6.445 (1.020)		142	32337	1.01639	48.7	80.00- 120.00	100.00
6.444	6.445 (1.020)		141	28243			57.13- 117.13	87.34
5 Acenaphthylene						CAS #: 208-96-8		
7.228	7.223 (1.144)		152	14938	0.29597	14.2	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	2688			0.00- 49.19	17.99
6 Acenaphthene						CAS #: 83-32-9		
7.396	7.395 (1.171)		153	48392	1.54101	73.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.171)		152	24487			16.38- 76.38	50.60
	7 Fluorene					CAS #: 86-73-7		
7.901	7.900 (1.251)		166	46029	1.27676	61.2	80.00- 120.00	100.00
7.901	7.900 (1.251)		165	43512			63.07- 123.07	94.53
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.884)		178	818664	15.5713	746	80.00- 120.00	100.00(A)
8.845	8.844 (0.885)		179	142302			0.00- 45.12	17.38
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.890)		178	131296	2.55928	123	80.00- 120.00	100.00
8.893	8.893 (0.890)		179	29365			0.00- 45.01	22.37
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	39470	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	5927			0.00- 46.16	15.02
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.014 (1.002)		202	1075688	18.6010	892	80.00- 120.00	100.00(A)
10.014	10.009 (1.002)		101	157373			0.00- 43.42	14.63
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	1031579	16.5173	792	80.00- 120.00	100.00(A)
10.239	10.234 (1.024)		101	186137			0.00- 45.54	18.04
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.404 (1.141)		226	153704	11.1929	536	80.00- 120.00	100.00(A)
11.408	11.404 (1.141)		200	20255			0.00- 43.30	13.18
	15 Chrysene					CAS #: 218-01-9		
11.443	11.443 (1.145)		226	186677	11.4841	550	80.00- 120.00	100.00(A)
11.443	11.439 (1.145)		200	20503			0.00- 42.53	10.98
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.395 (1.240)		252	601816	13.6003	652	80.00- 120.00	100.00(AM)
12.399	12.395 (1.240)		250	183019			0.00- 51.72	30.41
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.242)		252	352455	5.57651	267	80.00- 120.00	100.00(M)
12.408	12.417 (1.241)		250	111021			0.00- 56.49	31.50
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.629	12.624 (1.263)		264	16724	0.30214	14.5	80.00- 120.00	100.00
12.624	12.620 (1.263)		132	2679			0.00- 47.65	16.02
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.695 (1.270)		252	439838	8.51110	408	80.00- 120.00	100.00
12.699	12.695 (1.270)		250	110933			0.00- 53.76	25.22
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	224559	3.65906	175	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.840	13.831	(1.384)	138	58058			0.07- 60.07	25.85
21 Dibenz[a,h]anthracene							CAS #: 53-70-3	
13.845	13.840	(1.385)	278	65571	1.42507	68.3	80.00- 120.00	100.00(Q)
13.840	13.831	(1.384)	138	56870			7.12- 67.12	86.73
22 Benzo[g,h,i]perylene							CAS #: 191-24-2	
14.156	14.147	(1.416)	276	220191	4.34635	208	80.00- 120.00	100.00
14.156	14.142	(1.416)	138	57805			0.00- 55.44	26.25

QC Flag Legend

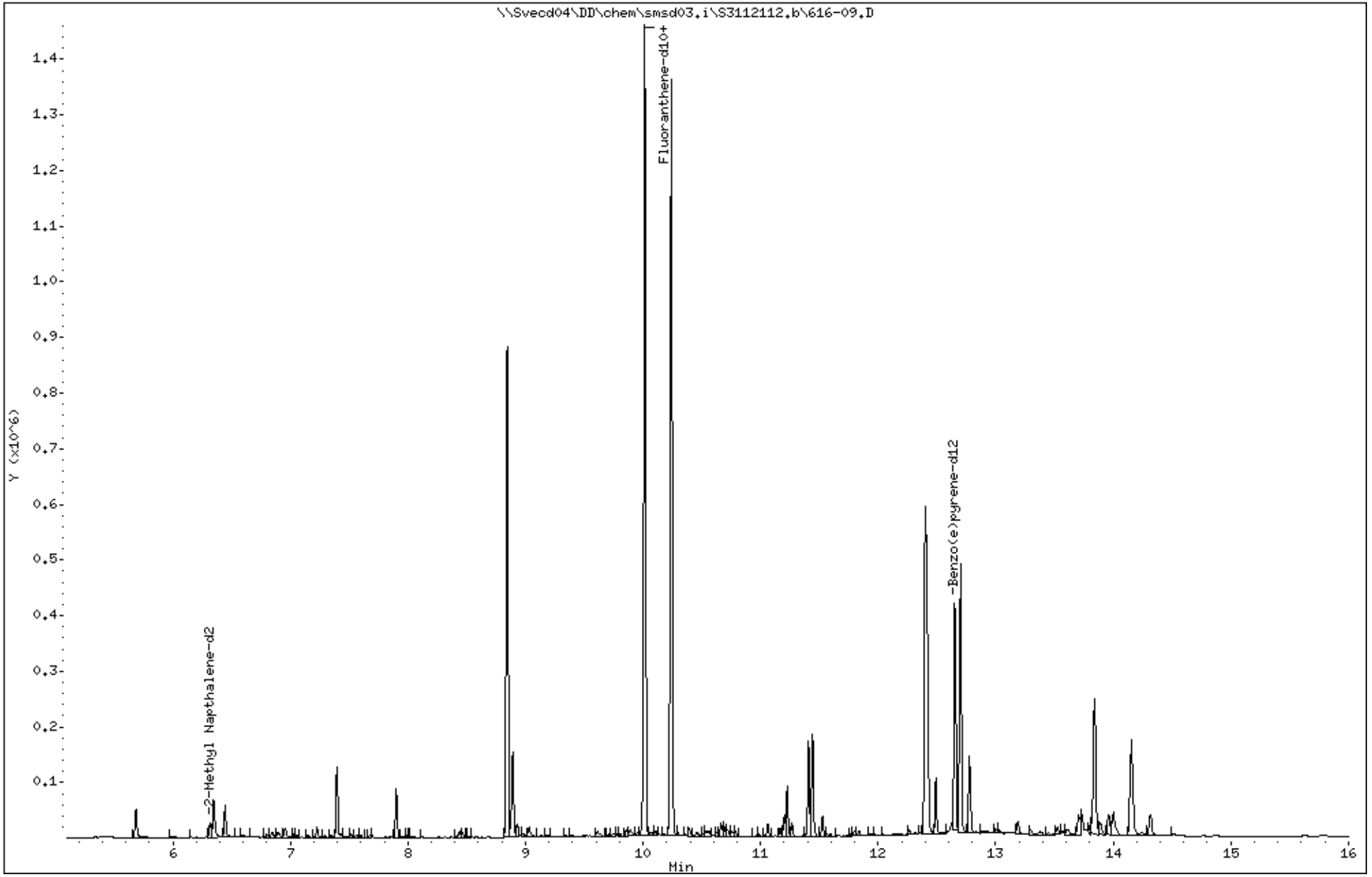
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-09.D
Date : 21-NOV-2012 22:29
Client ID: FM0263B-CS-SP
Sample Info: SIM350761609

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

327

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-10.D
Lab Smp Id: 350761610 Client Smp ID: FM0263C-CS-SP
Inj Date : 21-NOV-2012 22:53 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761610
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.790	Weight of sample extracted (g)
M	22.100	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.688	5.684 (0.901)		128	133667	2.96706	148	80.00- 120.00	100.00
5.688	5.684 (0.901)		129	14850			0.00- 40.29	11.11
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.316	6.317 (1.000)		152	22354	0.80000		80.00- 120.00	100.00
6.316	6.312 (1.000)		122	7789			2.00- 62.00	34.84
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.350	6.351 (1.005)		142	48146	1.57127	78.2	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	40644			55.71- 115.71	84.42
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.444	6.445 (1.020)		142	33068	1.14612	57.0	80.00- 120.00	100.00
6.444	6.445 (1.020)		141	27900			57.13- 117.13	84.37
	5 Acenaphthylene					CAS #: 208-96-8		
7.224	7.223 (1.144)		152	21377	0.46706	23.2	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	4164			0.00- 49.19	19.48
	6 Acenaphthene					CAS #: 83-32-9		
7.396	7.395 (1.171)		153	100590	3.53222	176	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.171)		152	49648			16.38- 76.38	49.36
	7 Fluorene					CAS #: 86-73-7		
7.901	7.900 (1.251)		166	102420	3.13274	156	80.00- 120.00	100.00
7.901	7.900 (1.251)		165	94856			63.07- 123.07	92.61
	9 Phenanthrene					CAS #: 85-01-8		
8.844	8.839 (0.885)		178	1221953	24.3268	1210	80.00- 120.00	100.00(A)
8.844	8.844 (0.885)		179	216429			0.00- 45.12	17.71
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.889)		178	276633	5.64392	281	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	64083			0.00- 45.01	23.17
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	37710	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	5565			0.00- 46.16	14.76
	12 Fluoranthene					CAS #: 206-44-0		
10.020	10.014 (1.002)		202	1581761	28.6287	1420	80.00- 120.00	100.00(A)
10.014	10.009 (1.002)		101	240559			0.00- 43.42	15.21
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	1270778	21.2970	1060	80.00- 120.00	100.00(A)
10.239	10.234 (1.024)		101	236649			0.00- 45.54	18.62
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.404 (1.141)		226	214350	16.3451	814	80.00- 120.00	100.00(A)
11.408	11.404 (1.141)		200	30127			0.00- 43.30	14.06
	15 Chrysene					CAS #: 218-01-9		
11.448	11.443 (1.145)		226	243553	15.6823	780	80.00- 120.00	100.00(A)
11.444	11.439 (1.145)		200	27342			0.00- 42.53	11.23
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.404	12.395 (1.241)		252	1009990	23.9749	1190	80.00- 120.00	100.00(AM)
12.404	12.395 (1.241)		250	245976			0.00- 51.72	24.35
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.241)		252	552425	9.14835	455	80.00- 120.00	100.00(M)
12.412	12.417 (1.241)		250	133793			0.00- 56.49	24.22
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.629	12.624 (1.263)		264	9885	0.18692	9.3	80.00- 120.00	100.00(R)
12.624	12.620 (1.263)		132	1821			0.00- 47.65	18.42
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.704	12.695 (1.271)		252	610165	12.3581	615	80.00- 120.00	100.00(A)
12.699	12.695 (1.270)		250	156814			0.00- 53.76	25.70
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	324917	5.54144	276	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.840	13.831	(1.384)	138	87463			0.07- 60.07	26.92
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.845	13.840	(1.385)	278	98248	2.30460	115	80.00- 120.00	100.00(Q)
13.840	13.831	(1.384)	138	83334			7.12- 67.12	84.82
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.156	14.147	(1.416)	276	352498	7.28271	362	80.00- 120.00	100.00
14.151	14.142	(1.415)	138	96087			0.00- 55.44	27.26

QC Flag Legend

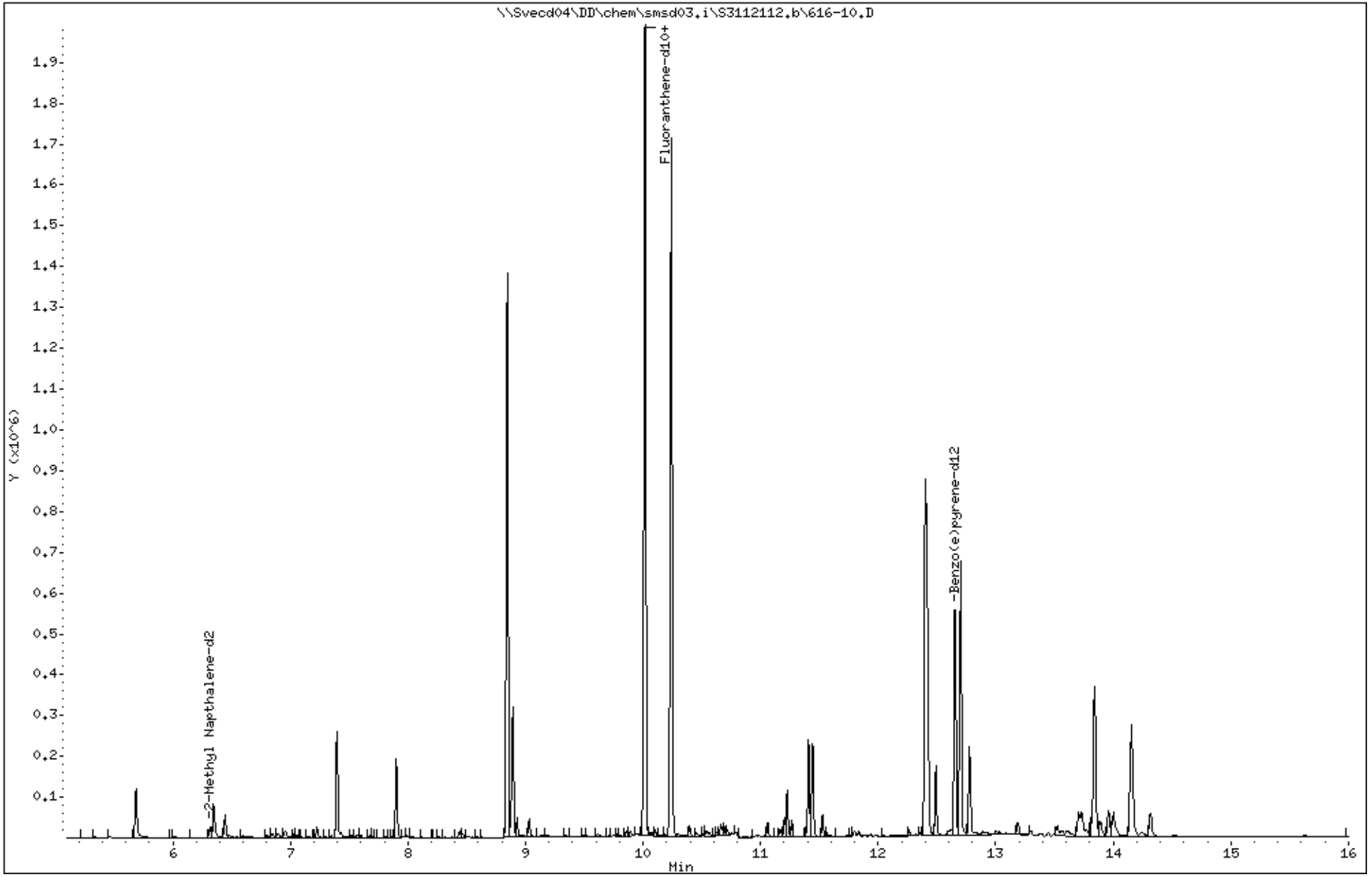
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-10.D
Date : 21-NOV-2012 22:53
Client ID: FM0263C-CS-SP
Sample Info: SIM350761610

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

331

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-11.D
Lab Smp Id: 350761611 Client Smp ID: FM0126A-CS-SP
Inj Date : 21-NOV-2012 23:16 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761611
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.770	Weight of sample extracted (g)
M	18.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.686	5.684 (0.900)	128	29901	0.66698		31.7	80.00- 120.00	100.00
5.686	5.684 (0.900)	129	3196				0.00- 40.29	10.69
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.319	6.317 (1.000)	152	22245	0.80000			80.00- 120.00	100.00
6.314	6.312 (1.000)	122	7227				2.00- 62.00	32.49
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.352	6.351 (1.005)	142	14269	0.46796		22.2	80.00- 120.00	100.00
6.347	6.345 (1.004)	141	11920				55.71- 115.71	83.54
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.447	6.445 (1.020)	142	9274	0.32301		15.3	80.00- 120.00	100.00
6.447	6.445 (1.020)	141	8246				57.13- 117.13	88.92
	5 Acenaphthylene					CAS #: 208-96-8		
7.227	7.223 (1.144)	152	3938	0.08646		4.1	80.00- 120.00	100.00
7.227	7.223 (1.144)	151	684				0.00- 49.19	17.37
	6 Acenaphthene					CAS #: 83-32-9		
7.394	7.395 (1.170)	153	4186	0.14771		7.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.394	7.395 (1.170)		152	2179			16.38- 76.38	52.05
	7 Fluorene					CAS #: 86-73-7		
7.903	7.900 (1.251)		166	4372	0.13438	6.4	80.00- 120.00	100.00
7.899	7.900 (1.250)		165	4192			63.07- 123.07	95.88
	9 Phenanthrene					CAS #: 85-01-8		
8.844	8.839 (0.885)		178	85595	1.60135	76.0	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	13925			0.00- 45.12	16.27
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.889)		178	15066	0.28886	13.7	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	4090			0.00- 45.01	27.15
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	40128	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	6471			0.00- 46.16	16.13
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.014 (1.002)		202	135501	2.30469	109	80.00- 120.00	100.00
10.014	10.009 (1.002)		101	19383			0.00- 43.42	14.30
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	113339	1.78499	84.8	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	20145			0.00- 45.54	17.77
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.404 (1.141)		226	18673	1.32347	62.9	80.00- 120.00	100.00
11.404	11.404 (1.141)		200	2280			0.00- 43.30	12.21
	15 Chrysene					CAS #: 218-01-9		
11.443	11.443 (1.145)		226	22799	1.37956	65.5	80.00- 120.00	100.00
11.439	11.439 (1.144)		200	2320			0.00- 42.53	10.18
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.395 (1.240)		252	93078	1.97364	93.7	80.00- 120.00	100.00(M)
12.399	12.395 (1.240)		250	23790			0.00- 51.72	25.56
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.241)		252	41333	0.64324	30.6	80.00- 120.00	100.00(M)
12.412	12.417 (1.241)		250	9038			0.00- 56.49	21.87
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	14891	0.26461	12.6	80.00- 120.00	100.00
12.624	12.620 (1.263)		132	2494			0.00- 47.65	16.75
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.695 (1.270)		252	58000	1.10393	52.4	80.00- 120.00	100.00
12.699	12.695 (1.270)		250	13911			0.00- 53.76	23.98
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	32356	0.51858	24.6	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.835	13.831 (1.384)		138	8269			0.07- 60.07	25.56
21 Dibenz[a,h]anthracene							CAS #: 53-70-3	
13.840	13.840 (1.384)		278	8890	0.08376	4.0	80.00- 120.00	100.00(Q)
13.835	13.831 (1.384)		138	8116			7.12- 67.12	91.29
22 Benzo[g,h,i]perylene							CAS #: 191-24-2	
14.151	14.147 (1.415)		276	30342	0.58910	28.0	80.00- 120.00	100.00
14.151	14.142 (1.415)		138	7057			0.00- 55.44	23.26

QC Flag Legend

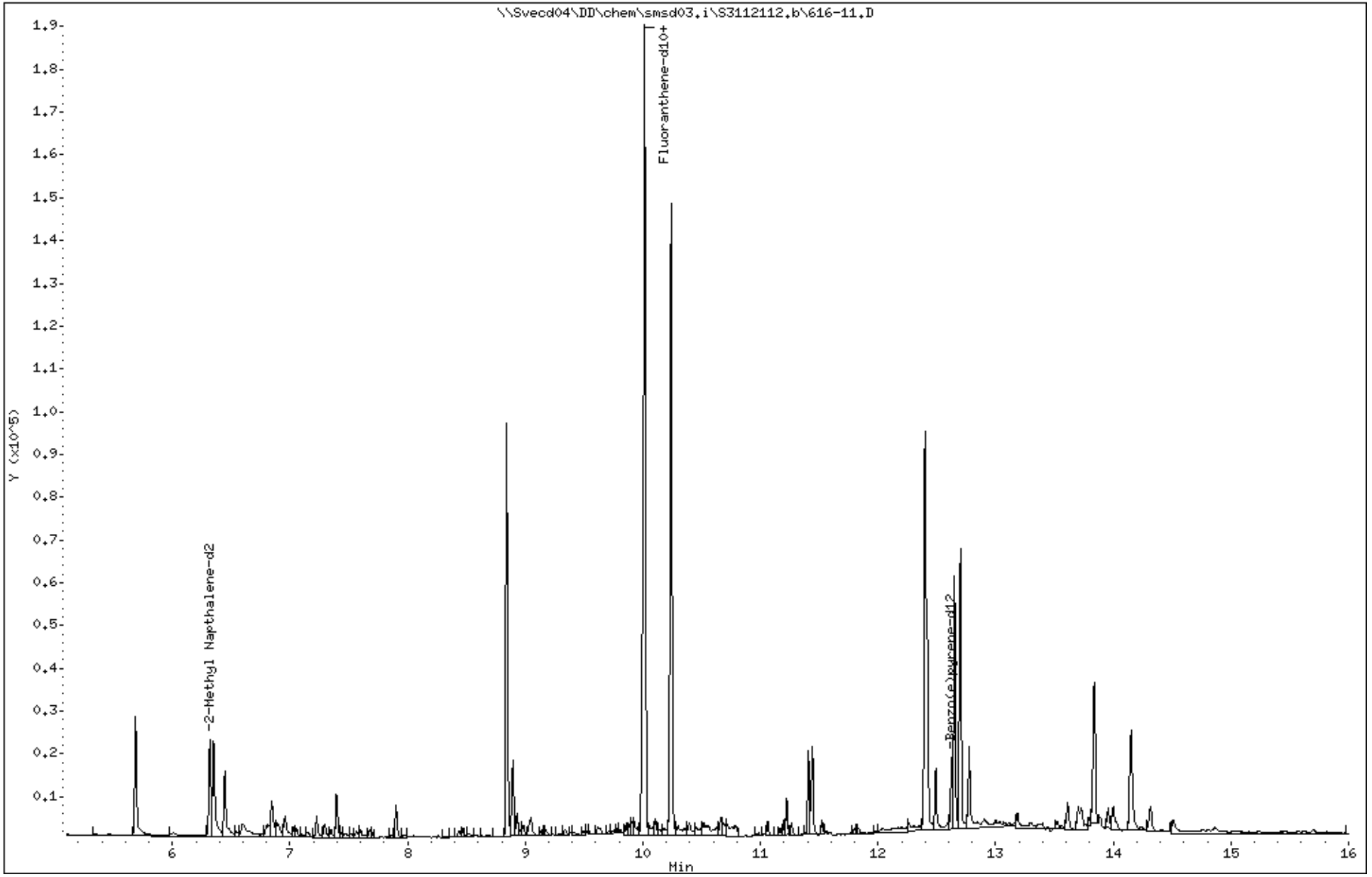
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-11.D
Date : 21-NOV-2012 23:16
Client ID: FM0126A-CS-SP
Sample Info: SIM350761611

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

335

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-12.D
Lab Smp Id: 350761612 Client Smp ID: FM0126B-CS-SP
Inj Date : 21-NOV-2012 23:40 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761612
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.610	Weight of sample extracted (g)
M	20.600	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
1 Naphthalene							CAS #: 91-20-3	
5.689	5.684 (0.901)		128	40281	0.96441	47.4	80.00- 120.00	100.00
5.689	5.684 (0.901)		129	4299			0.00- 40.29	10.67
* 2 2-Methyl Napthalene-d2							CAS #: 7927-45-2	
6.317	6.317 (1.000)		152	20725	0.80000		80.00- 120.00	100.00
6.317	6.312 (1.000)		122	6909			2.00- 62.00	33.34
3 2-Methylnaphthalene							CAS #: 91-57-6	
6.350	6.351 (1.005)		142	30534	1.07482	52.8	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	25593			55.71- 115.71	83.82
4 1-Methylnaphthalene							CAS #: 90-12-0	
6.445	6.445 (1.020)		142	18560	0.69384	34.1	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	16051			57.13- 117.13	86.48
5 Acenaphthylene							CAS #: 208-96-8	
7.229	7.223 (1.144)		152	3182	0.07499	3.7	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	592			0.00- 49.19	18.60
6 Acenaphthene							CAS #: 83-32-9	
7.396	7.395 (1.171)		153	1763	0.06677	3.3	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.401	7.395 (1.172)		152	1052			16.38- 76.38	59.67
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.251)		166	2299	0.07585	3.7	80.00- 120.00	100.00
7.900	7.900 (1.251)		165	2586			63.07- 123.07	112.48
	9 Phenanthrene					CAS #: 85-01-8		
8.840	8.839 (0.884)		178	63327	1.41266	69.5	80.00- 120.00	100.00
8.845	8.844 (0.885)		179	10379			0.00- 45.12	16.39
	10 Anthracene					CAS #: 120-12-7		
8.894	8.893 (0.890)		178	7272	0.16625	8.2	80.00- 120.00	100.00
8.894	8.893 (0.890)		179	2220			0.00- 45.01	30.53
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	33654	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	5445			0.00- 46.16	16.18
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.014 (1.002)		202	76821	1.55798	76.6	80.00- 120.00	100.00
10.014	10.009 (1.002)		101	11383			0.00- 43.42	14.82
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	63957	1.20104	59.1	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	10363			0.00- 45.54	16.20
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	12095	1.01853	50.1	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	1490			0.00- 43.30	12.32
	15 Chrysene					CAS #: 218-01-9		
11.445	11.443 (1.145)		226	17235	1.24350	61.2	80.00- 120.00	100.00
11.441	11.439 (1.144)		200	1722			0.00- 42.53	9.99
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.398	12.395 (1.240)		252	67853	1.70084	83.6	80.00- 120.00	100.00
12.398	12.395 (1.240)		250	15408			0.00- 51.72	22.71
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.420	12.417 (1.242)		252	30713	0.56992	28.0	80.00- 120.00	100.00(M)
12.416	12.417 (1.242)		250	6498			0.00- 56.49	21.16
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	13221	0.28013	13.8	80.00- 120.00	100.00
12.623	12.620 (1.263)		132	2276			0.00- 47.65	17.22
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.698	12.695 (1.270)		252	37283	0.84612	41.6	80.00- 120.00	100.00
12.698	12.695 (1.270)		250	8814			0.00- 53.76	23.64
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.835	13.835 (1.384)		276	21450	0.40992	20.2	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.835	13.831	(1.384)	138	5508			0.07- 60.07	25.68
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.839	13.840	(1.384)	278	6576	0.05940	2.9	80.00- 120.00	100.00(Q)
13.835	13.831	(1.384)	138	5354			7.12- 67.12	81.42
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.151	14.147	(1.415)	276	20869	0.48312	23.8	80.00- 120.00	100.00
14.146	14.142	(1.415)	138	5053			0.00- 55.44	24.21

QC Flag Legend

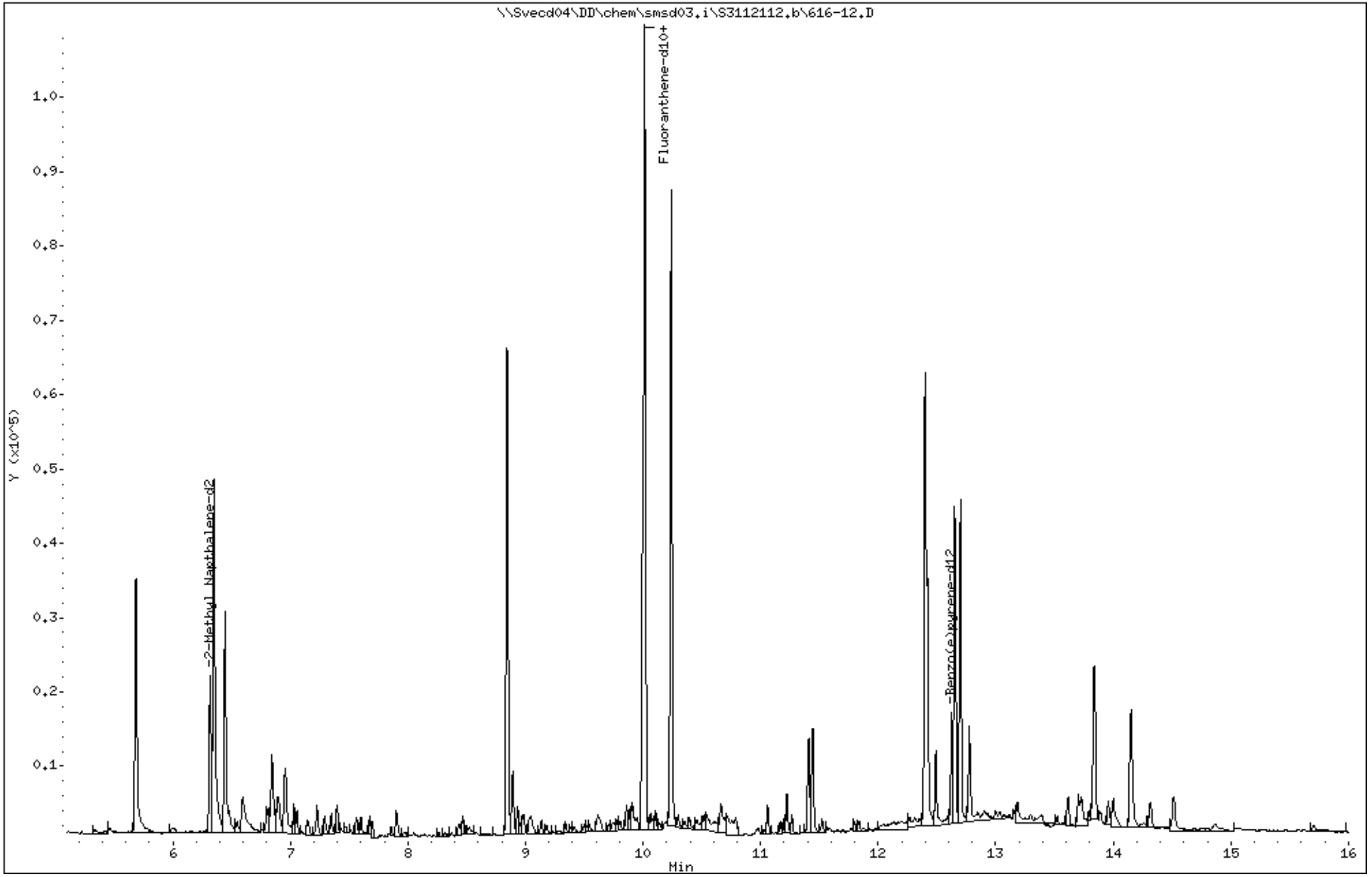
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-12.D
Date : 21-NOV-2012 23:40
Client ID: FM0126B-CS-SP
Sample Info: SIM350761612

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

339

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-14.D
Lab Smp Id: 350761614 Client Smp ID: CV0699A-CS
Inj Date : 22-NOV-2012 00:04 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761614
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.020	Weight of sample extracted (g)
M	16.800	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.683	5.684 (0.900)		128	40785	0.93042	44.7	80.00- 120.00	100.00
5.689	5.684 (0.901)		129	4312			0.00- 40.29	10.57
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	21751	0.80000		80.00- 120.00	100.00
6.317	6.312 (1.000)		122	7237			2.00- 62.00	33.27
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.350	6.351 (1.005)		142	29316	0.98326	47.2	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	24825			55.71- 115.71	84.68
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.445	6.445 (1.020)		142	19542	0.69609	33.4	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	16196			57.13- 117.13	82.88
	5 Acenaphthylene					CAS #: 208-96-8		
7.224	7.223 (1.144)		152	8058	0.18094	8.7	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	1582			0.00- 49.19	19.63
	6 Acenaphthene					CAS #: 83-32-9		
7.396	7.395 (1.171)		153	4191	0.15125	7.3	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395	(1.171)	152	2178			16.38- 76.38	51.97
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900	(1.251)	166	5234	0.16453	7.9	80.00- 120.00	100.00
7.900	7.900	(1.251)	165	5263			63.07- 123.07	100.55
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839	(0.884)	178	111184	2.21147	106	80.00- 120.00	100.00
8.845	8.844	(0.885)	179	18191			0.00- 45.12	16.36
	10 Anthracene					CAS #: 120-12-7		
8.894	8.893	(0.890)	178	19770	0.40299	19.4	80.00- 120.00	100.00
8.894	8.893	(0.890)	179	5061			0.00- 45.01	25.60
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.996	9.998	(1.000)	212	37744	0.80000		80.00- 120.00	100.00
9.996	9.992	(1.000)	106	5729			0.00- 46.16	15.18
	12 Fluoranthene					CAS #: 206-44-0		
10.012	10.014	(1.002)	202	164307	2.97116	143	80.00- 120.00	100.00
10.012	10.009	(1.002)	101	23068			0.00- 43.42	14.04
	13 Pyrene					CAS #: 129-00-0		
10.238	10.240	(1.024)	202	148109	2.47992	119	80.00- 120.00	100.00
10.238	10.234	(1.024)	101	24291			0.00- 45.54	16.40
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404	(1.141)	226	36232	2.74711	132	80.00- 120.00	100.00
11.405	11.404	(1.141)	200	4282			0.00- 43.30	11.82
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443	(1.145)	226	41640	2.67877	129	80.00- 120.00	100.00
11.440	11.439	(1.144)	200	5476			0.00- 42.53	13.15
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.398	12.395	(1.240)	252	183181	4.25234	204	80.00- 120.00	100.00(M)
12.398	12.395	(1.240)	250	42695			0.00- 51.72	23.31
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.415	12.417	(1.242)	252	65554	1.08462	52.1	80.00- 120.00	100.00(M)
12.415	12.417	(1.242)	250	13865			0.00- 56.49	21.15
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.627	12.624	(1.263)	264	15097	0.28522	13.7	80.00- 120.00	100.00
12.627	12.620	(1.263)	132	2731			0.00- 47.65	18.09
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.698	12.695	(1.270)	252	120583	2.44005	117	80.00- 120.00	100.00
12.698	12.695	(1.270)	250	29426			0.00- 53.76	24.40
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.839	13.835	(1.384)	276	62321	1.06192	51.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.839	13.831	(1.384)	138	14923			0.07- 60.07	23.95
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.843	13.840	(1.385)	278	18795	0.34128	16.4	80.00- 120.00	100.00(Q)
13.839	13.831	(1.384)	138	16767			7.12- 67.12	89.21
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.155	14.147	(1.416)	276	60943	1.25797	60.4	80.00- 120.00	100.00
14.150	14.142	(1.416)	138	15455			0.00- 55.44	25.36

QC Flag Legend

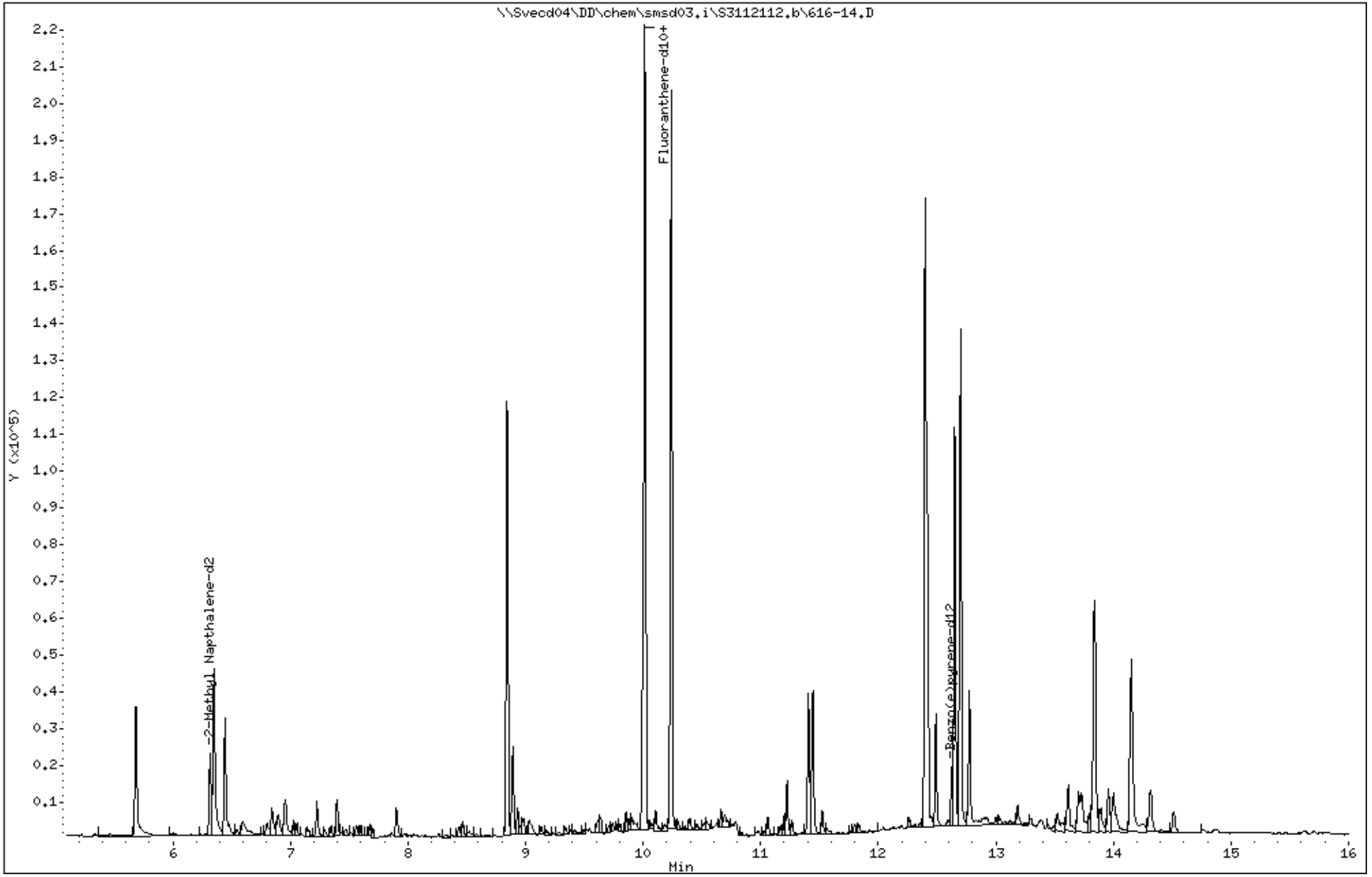
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-14.D
Date : 22-NOV-2012 00:04
Client ID: CV0699A-CS
Sample Info: SIM350761614

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

343

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-15.D
Lab Smp Id: 350761615 Client Smp ID: CV0699B-CS
Inj Date : 22-NOV-2012 00:27 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761615
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.010	Weight of sample extracted (g)
M	19.200	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.683	5.684 (0.900)		128	33433	0.73314	36.3	80.00- 120.00	100.00
5.689	5.684 (0.901)		129	3547			0.00- 40.29	10.61
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	22628	0.80000		80.00- 120.00	100.00
6.311	6.312 (1.000)		122	7219			2.00- 62.00	31.90
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.350	6.351 (1.005)		142	20137	0.64922	32.1	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	16998			55.71- 115.71	84.41
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.445	6.445 (1.020)		142	14722	0.50408	24.9	80.00- 120.00	100.00
6.445	6.445 (1.020)		141	12403			57.13- 117.13	84.25
5 Acenaphthylene						CAS #: 208-96-8		
7.228	7.223 (1.144)		152	7660	0.16533	8.2	80.00- 120.00	100.00
7.223	7.223 (1.143)		151	1419			0.00- 49.19	18.52
6 Acenaphthene						CAS #: 83-32-9		
7.395	7.395 (1.171)		153	14373	0.49860	24.7	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.395	7.395 (1.171)		152	7298			16.38- 76.38	50.78
	7 Fluorene					CAS #: 86-73-7		
7.903	7.900 (1.251)		166	11516	0.34798	17.2	80.00- 120.00	100.00
7.899	7.900 (1.250)		165	11188			63.07- 123.07	97.15
	9 Phenanthrene					CAS #: 85-01-8		
8.844	8.839 (0.885)		178	339825	6.63886	328	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	56025			0.00- 45.12	16.49
	10 Anthracene					CAS #: 120-12-7		
8.892	8.893 (0.889)		178	99101	1.98410	98.2	80.00- 120.00	100.00
8.892	8.893 (0.889)		179	19864			0.00- 45.01	20.04
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	38428	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	5857			0.00- 46.16	15.24
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.014 (1.002)		202	1005245	17.8543	884	80.00- 120.00	100.00(A)
10.014	10.009 (1.002)		101	147539			0.00- 43.42	14.68
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240 (1.024)		202	1050990	17.2845	855	80.00- 120.00	100.00(A)
10.234	10.234 (1.024)		101	197757			0.00- 45.54	18.82
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	171105	12.8002	633	80.00- 120.00	100.00(A)
11.409	11.404 (1.141)		200	22987			0.00- 43.30	13.43
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443 (1.145)		226	170706	10.7863	534	80.00- 120.00	100.00(A)
11.444	11.439 (1.145)		200	24138			0.00- 42.53	14.14
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.402	12.395 (1.240)		252	759658	17.6662	874	80.00- 120.00	100.00(AM)
12.402	12.395 (1.240)		250	206508			0.00- 51.72	27.18
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.415	12.417 (1.242)		252	345752	5.61879	278	80.00- 120.00	100.00(M)
12.415	12.417 (1.242)		250	78439			0.00- 56.49	22.69
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.627	12.624 (1.263)		264	15214	0.28231	14.0	80.00- 120.00	100.00
12.623	12.620 (1.263)		132	2464			0.00- 47.65	16.20
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.702	12.695 (1.270)		252	474210	9.42504	466	80.00- 120.00	100.00
12.698	12.695 (1.270)		250	119252			0.00- 53.76	25.15
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	206298	3.45266	171	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.840	13.831	(1.384)	138	62345			0.07- 60.07	30.22
21 Dibenz[a,h]anthracene							CAS #: 53-70-3	
13.844	13.840	(1.385)	278	66383	1.48673	73.6	80.00- 120.00	100.00(Q)
13.840	13.831	(1.384)	138	58091			7.12- 67.12	87.51
22 Benzo[g,h,i]perylene							CAS #: 191-24-2	
14.155	14.147	(1.416)	276	185209	3.75497	186	80.00- 120.00	100.00
14.151	14.142	(1.415)	138	48205			0.00- 55.44	26.03

QC Flag Legend

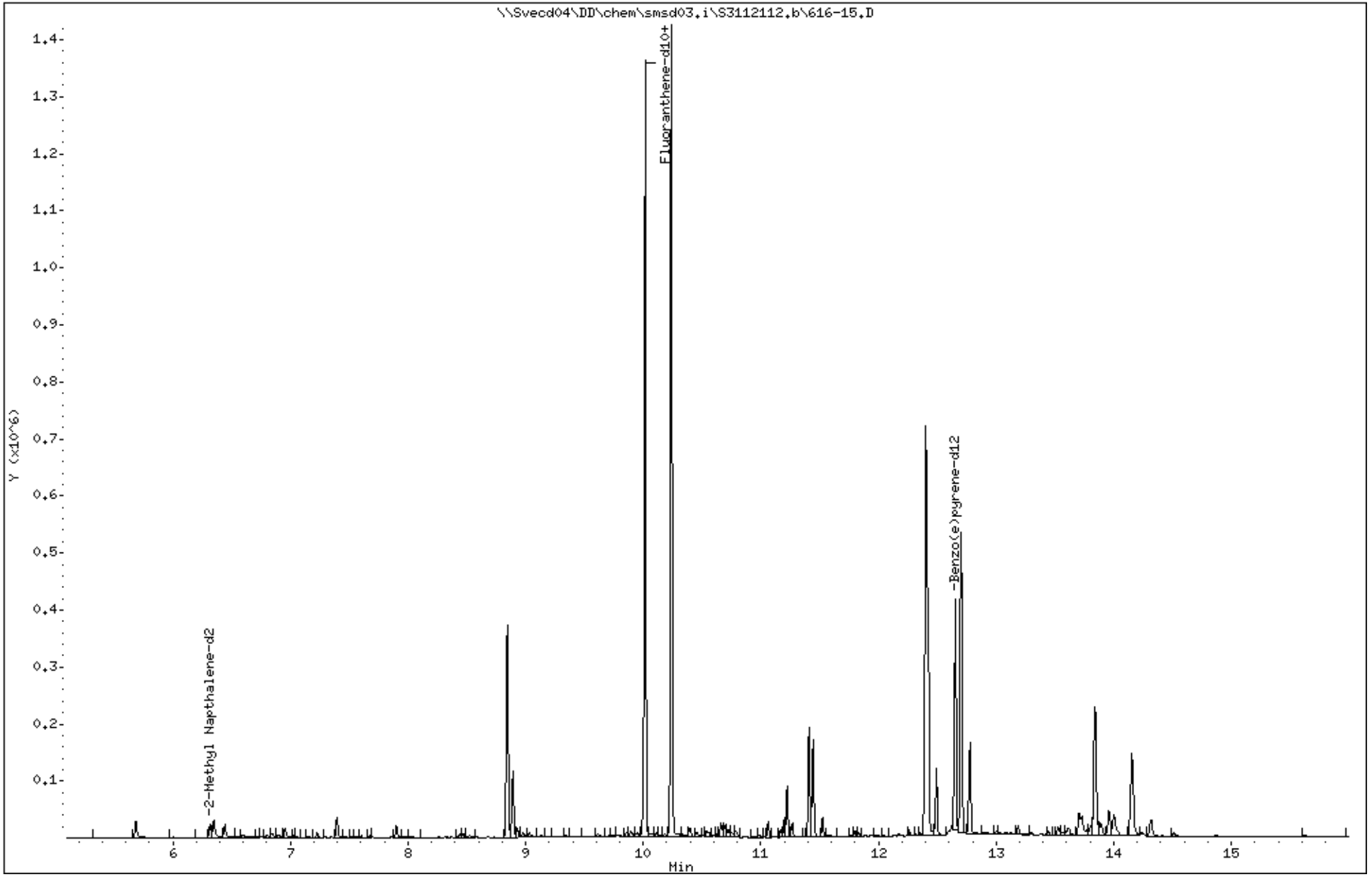
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-15.D
Date : 22-NOV-2012 00:27
Client ID: CV0699B-CS
Sample Info: SIM350761615

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

347

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-16.D
Lab Smp Id: 350761616 Client Smp ID: CV0699C-CS
Inj Date : 22-NOV-2012 00:51 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761616
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.300	Weight of sample extracted (g)
M	18.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.685	5.684 (0.900)		128	42296	1.00775	48.6	80.00- 120.00	100.00
	5.685	5.684 (0.900)		129	4578			0.00- 40.29	10.82
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.318	6.317 (1.000)		152	20826	0.80000		80.00- 120.00	100.00
	6.313	6.312 (1.000)		122	6920			2.00- 62.00	33.23
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.352	6.351 (1.005)		142	27029	0.94682	45.6	80.00- 120.00	100.00
	6.352	6.345 (1.005)		141	22441			55.71- 115.71	83.03
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.446	6.445 (1.020)		142	18654	0.69398	33.4	80.00- 120.00	100.00
	6.446	6.445 (1.020)		141	15664			57.13- 117.13	83.97
	5 Acenaphthylene						CAS #: 208-96-8		
	7.228	7.223 (1.144)		152	5513	0.12929	6.2	80.00- 120.00	100.00
	7.224	7.223 (1.143)		151	1022			0.00- 49.19	18.54
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.395 (1.171)		153	6593	0.24850	12.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.171)		152	3298			16.38- 76.38	50.02
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.250)		166	7970	0.26167	12.6	80.00- 120.00	100.00
7.900	7.900 (1.250)		165	7820			63.07- 123.07	98.12
	9 Phenanthrene					CAS #: 85-01-8		
8.840	8.839 (0.884)		178	102776	2.34550	113	80.00- 120.00	100.00
8.845	8.844 (0.885)		179	16742			0.00- 45.12	16.29
	10 Anthracene					CAS #: 120-12-7		
8.894	8.893 (0.890)		178	22402	0.52393	25.2	80.00- 120.00	100.00
8.894	8.893 (0.890)		179	5510			0.00- 45.01	24.60
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	32896	0.80000		80.00- 120.00	100.00
9.992	9.992 (1.000)		106	4944			0.00- 46.16	15.03
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.014 (1.002)		202	147517	3.06067	148	80.00- 120.00	100.00
10.014	10.009 (1.002)		101	20720			0.00- 43.42	14.05
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240 (1.024)		202	121080	2.32613	112	80.00- 120.00	100.00
10.233	10.234 (1.024)		101	20181			0.00- 45.54	16.67
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	25996	2.25868	109	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	3213			0.00- 43.30	12.36
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443 (1.145)		226	29921	2.20854	106	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	3122			0.00- 42.53	10.43
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.395 (1.240)		252	131785	3.49046	168	80.00- 120.00	100.00(M)
12.399	12.395 (1.240)		250	34028			0.00- 51.72	25.82
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.242)		252	64302	1.22070	58.8	80.00- 120.00	100.00(M)
12.412	12.417 (1.242)		250	14425			0.00- 56.49	22.43
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.629	12.624 (1.263)		264	6299	0.13654	6.6	80.00- 120.00	100.00(R)
12.624	12.620 (1.263)		132	905			0.00- 47.65	14.37
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.695 (1.270)		252	82849	1.92355	92.7	80.00- 120.00	100.00
12.699	12.695 (1.270)		250	19870			0.00- 53.76	23.98
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.839	13.835 (1.384)		276	40136	0.78469	37.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.839	13.831	(1.384)	138	9517			0.07- 60.07	23.71
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.843	13.840	(1.385)	278	13137	0.24941	12.0	80.00- 120.00	100.00(Q)
13.839	13.831	(1.384)	138	10562			7.12- 67.12	80.40
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.154	14.147	(1.416)	276	44294	1.04905	50.6	80.00- 120.00	100.00
14.150	14.142	(1.415)	138	11709			0.00- 55.44	26.43

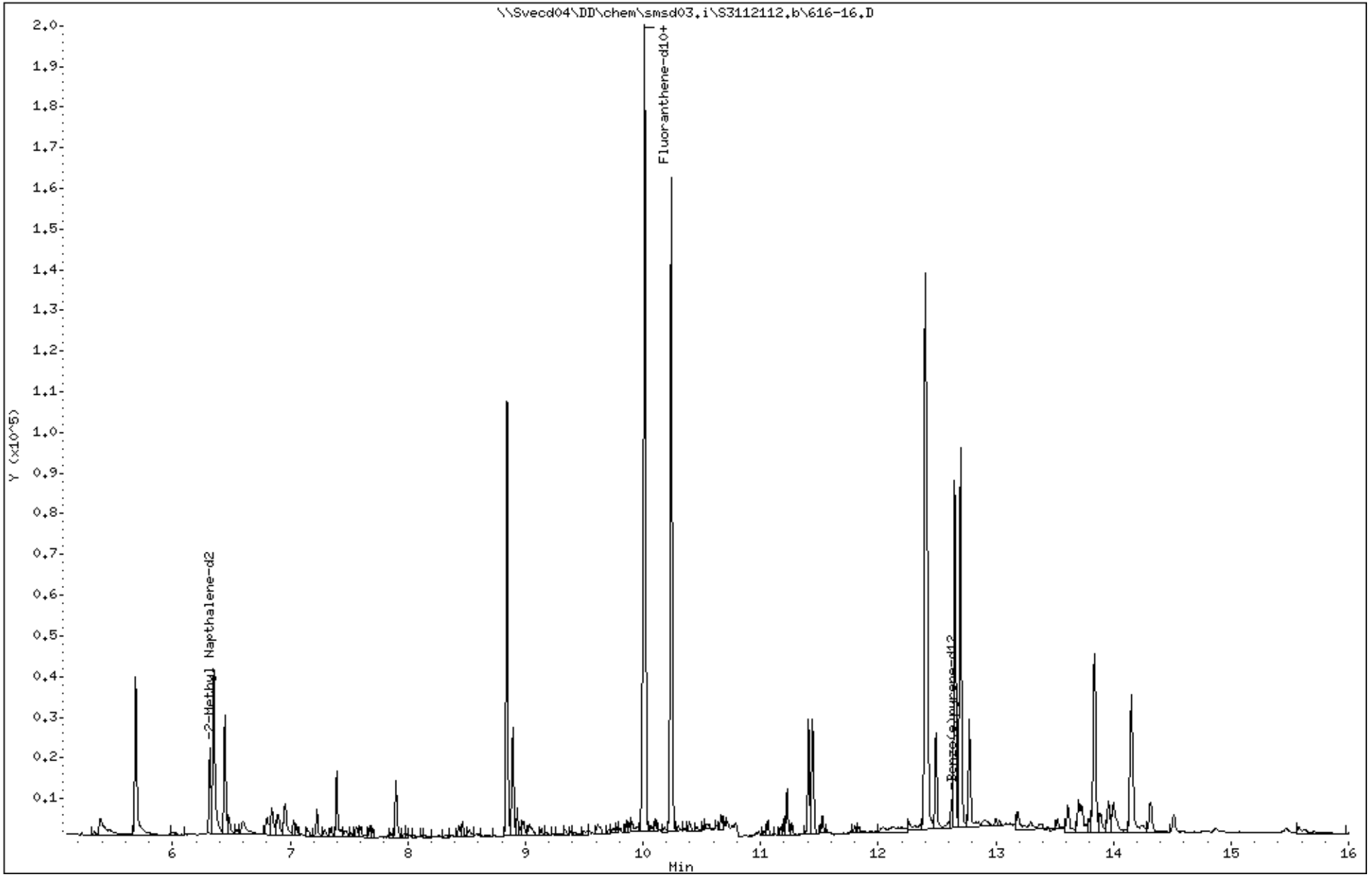
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-16.D
Date : 22-NOV-2012 00:51
Client ID: CV0699C-CS
Sample Info: SIM350761616

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-17.D
Lab Smp Id: 350761617 Client Smp ID: FM0210A-CS
Inj Date : 22-NOV-2012 01:14 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761617
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.200	Weight of sample extracted (g)
M	18.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.684	5.684 (0.900)		128	19915	0.44631	21.6	80.00- 120.00	100.00
	5.690	5.684 (0.901)		129	1954			0.00- 40.29	9.81
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.318	6.317 (1.000)		152	22141	0.80000		80.00- 120.00	100.00
	6.312	6.312 (1.000)		122	6986			2.00- 62.00	31.55
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.351	6.351 (1.005)		142	10158	0.33470	16.2	80.00- 120.00	100.00
	6.351	6.345 (1.005)		141	8485			55.71- 115.71	83.53
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.446	6.445 (1.020)		142	6957	0.24345	11.8	80.00- 120.00	100.00
	6.446	6.445 (1.020)		141	6358			57.13- 117.13	91.39
	5 Acenaphthylene						CAS #: 208-96-8		
	7.228	7.223 (1.144)		152	2248	0.04959	2.4	80.00- 120.00	100.00
	7.223	7.223 (1.143)		151	439			0.00- 49.19	19.53
	6 Acenaphthene						CAS #: 83-32-9		
	7.400	7.395 (1.171)		153	853	0.03024	1.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.400	7.395 (1.171)		152	601			16.38- 76.38	70.46
	7 Fluorene					CAS #: 86-73-7		
7.904	7.900 (1.251)		166	1356	0.04188	2.0	80.00- 120.00	100.00
7.901	7.900 (1.250)		165	1518			63.07- 123.07	111.95
	9 Phenanthrene					CAS #: 85-01-8		
8.845	8.839 (0.885)		178	26376	0.50260	24.3	80.00- 120.00	100.00
8.845	8.844 (0.885)		179	4257			0.00- 45.12	16.14
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.890)		178	3738	0.07300	3.5	80.00- 120.00	100.00
8.893	8.893 (0.890)		179	1236			0.00- 45.01	33.07
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	39398	0.80000		80.00- 120.00	100.00
9.993	9.992 (1.000)		106	6373			0.00- 46.16	16.18
	12 Fluoranthene					CAS #: 206-44-0		
10.015	10.014 (1.002)		202	39351	0.68171	33.0	80.00- 120.00	100.00
10.015	10.009 (1.002)		101	6392			0.00- 43.42	16.24
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240 (1.024)		202	34248	0.54937	26.6	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	5441			0.00- 45.54	15.89
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.404 (1.141)		226	7021	0.49702	24.0	80.00- 120.00	100.00
11.408	11.404 (1.141)		200	594			0.00- 43.30	8.46
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443 (1.145)		226	8941	0.55104	26.7	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	876			0.00- 42.53	9.80
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.395 (1.240)		252	34830	0.68265	33.0	80.00- 120.00	100.00(M)
12.399	12.395 (1.240)		250	8835			0.00- 51.72	25.37
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.241)		252	15483	0.24542	11.9	80.00- 120.00	100.00(M)
12.408	12.417 (1.241)		250	4600			0.00- 56.49	29.71
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	4701	0.08508	4.1	80.00- 120.00	100.00(R)
12.624	12.620 (1.263)		132	795			0.00- 47.65	16.91
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.695 (1.270)		252	20565	0.39867	19.3	80.00- 120.00	100.00
12.699	12.695 (1.270)		250	4856			0.00- 53.76	23.61
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	10706	0.17477	8.4	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.835	13.831	(1.384)	138	2700			0.07- 60.07	25.22
22 Benzo[g,h,i]perylene							CAS #: 191-24-2	
14.151	14.147	(1.415)	276	11057	0.21865	10.6	80.00- 120.00	100.00
14.151	14.142	(1.415)	138	2573			0.00- 55.44	23.27

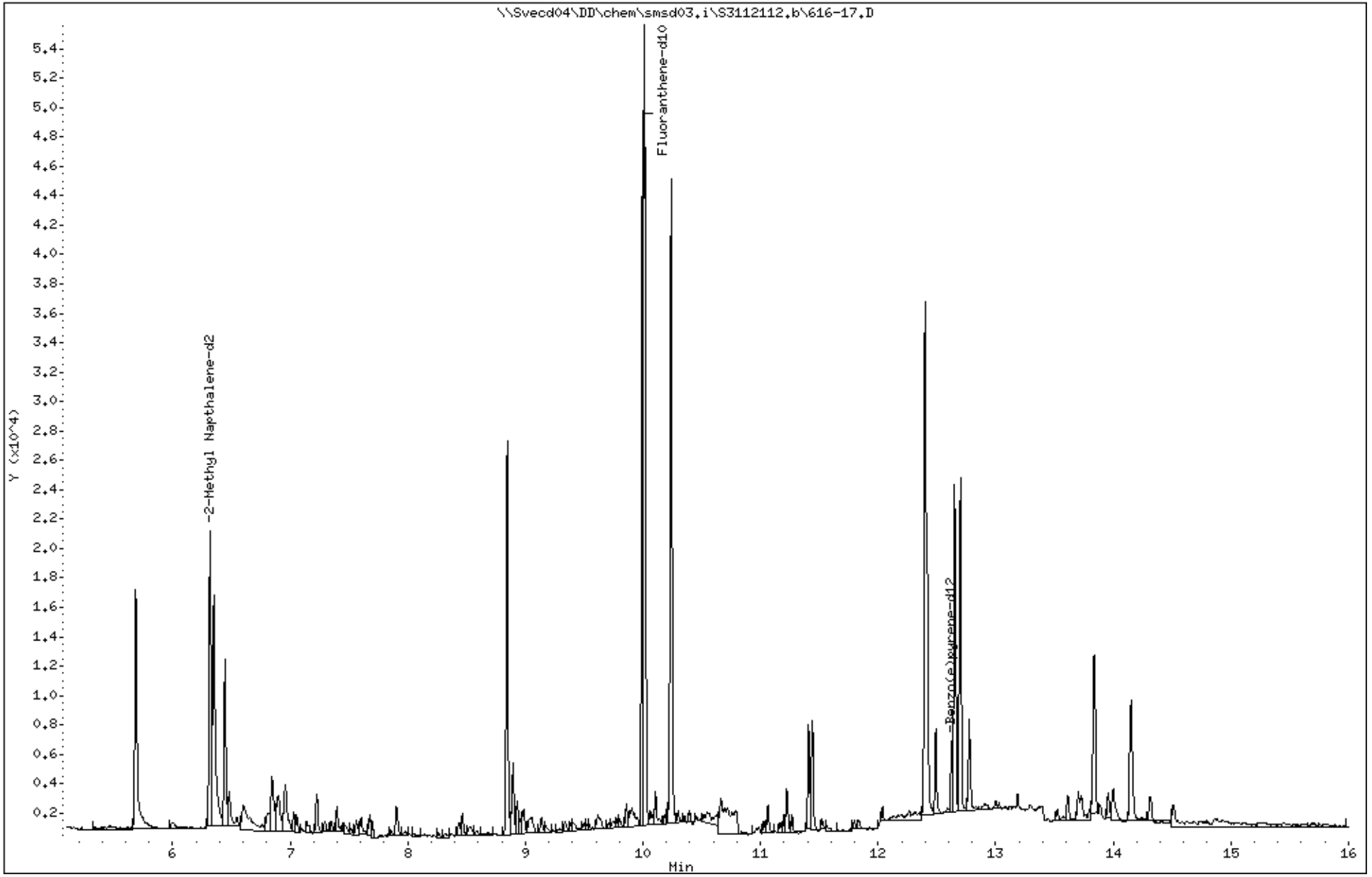
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-17.D
Date : 22-NOV-2012 01:14
Client ID: FM0210A-CS
Sample Info: SIM350761617

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

355



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-18.D
Lab Smp Id: 350761618 Client Smp ID: FM0210B-CS
Inj Date : 22-NOV-2012 01:38 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761618
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.080	Weight of sample extracted (g)
M	17.300	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.685	5.684 (0.900)		128	34969	0.88339	42.6	80.00- 120.00	100.00
	5.685	5.684 (0.900)		129	3609			0.00- 40.29	10.32
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.319	6.317 (1.000)		152	19642	0.80000		80.00- 120.00	100.00
	6.313	6.312 (1.000)		122	6513			2.00- 62.00	33.16
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.352	6.351 (1.005)		142	23337	0.86677	41.8	80.00- 120.00	100.00
	6.347	6.345 (1.004)		141	19576			55.71- 115.71	83.88
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.447	6.445 (1.020)		142	17428	0.68745	33.1	80.00- 120.00	100.00
	6.447	6.445 (1.020)		141	14311			57.13- 117.13	82.11
	5 Acenaphthylene						CAS #: 208-96-8		
	7.227	7.223 (1.144)		152	4106	0.10210	4.9	80.00- 120.00	100.00
	7.223	7.223 (1.143)		151	759			0.00- 49.19	18.49
	6 Acenaphthene						CAS #: 83-32-9		
	7.395	7.395 (1.170)		153	2914	0.11645	5.6	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.399	7.395 (1.171)		152	1620			16.38- 76.38	55.59
	7 Fluorene					CAS #: 86-73-7		
7.904	7.900 (1.251)		166	3765	0.13106	6.3	80.00- 120.00	100.00
7.900	7.900 (1.250)		165	4266			63.07- 123.07	113.31
	9 Phenanthrene					CAS #: 85-01-8		
8.844	8.839 (0.885)		178	84729	1.77867	85.8	80.00- 120.00	100.00
8.844	8.844 (0.885)		179	14167			0.00- 45.12	16.72
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.889)		178	9954	0.21415	10.3	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	2241			0.00- 45.01	22.51
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	35762	0.80000		80.00- 120.00	100.00
9.993	9.992 (1.000)		106	5796			0.00- 46.16	16.21
	12 Fluoranthene					CAS #: 206-44-0		
10.015	10.014 (1.002)		202	93388	1.78233	85.9	80.00- 120.00	100.00
10.015	10.009 (1.002)		101	13510			0.00- 43.42	14.47
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240 (1.024)		202	89162	1.57566	76.0	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	15078			0.00- 45.54	16.91
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.404 (1.141)		226	14674	1.16513	56.2	80.00- 120.00	100.00
11.404	11.404 (1.141)		200	1771			0.00- 43.30	12.07
	15 Chrysene					CAS #: 218-01-9		
11.443	11.443 (1.145)		226	20577	1.39712	67.4	80.00- 120.00	100.00
11.439	11.439 (1.144)		200	2834			0.00- 42.53	13.77
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.395 (1.240)		252	66210	1.55264	74.8	80.00- 120.00	100.00(M)
12.399	12.395 (1.240)		250	16799			0.00- 51.72	25.37
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.241)		252	29660	0.51793	25.0	80.00- 120.00	100.00(M)
12.412	12.417 (1.241)		250	6685			0.00- 56.49	22.54
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	10468	0.20873	10.1	80.00- 120.00	100.00(R)
12.624	12.620 (1.263)		132	1743			0.00- 47.65	16.65
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.695 (1.270)		252	38430	0.82075	39.6	80.00- 120.00	100.00
12.699	12.695 (1.270)		250	8909			0.00- 53.76	23.18
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	18476	0.33227	16.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.835	13.831	(1.384)	138	4534			0.07- 60.07	24.54
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.844	13.840	(1.385)	278	6497	0.04662	2.2	80.00- 120.00	100.00(Q)
13.835	13.831	(1.384)	138	4563			7.12- 67.12	70.23
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.151	14.147	(1.415)	276	21016	0.45785	22.1	80.00- 120.00	100.00
14.151	14.142	(1.415)	138	5046			0.00- 55.44	24.01

QC Flag Legend

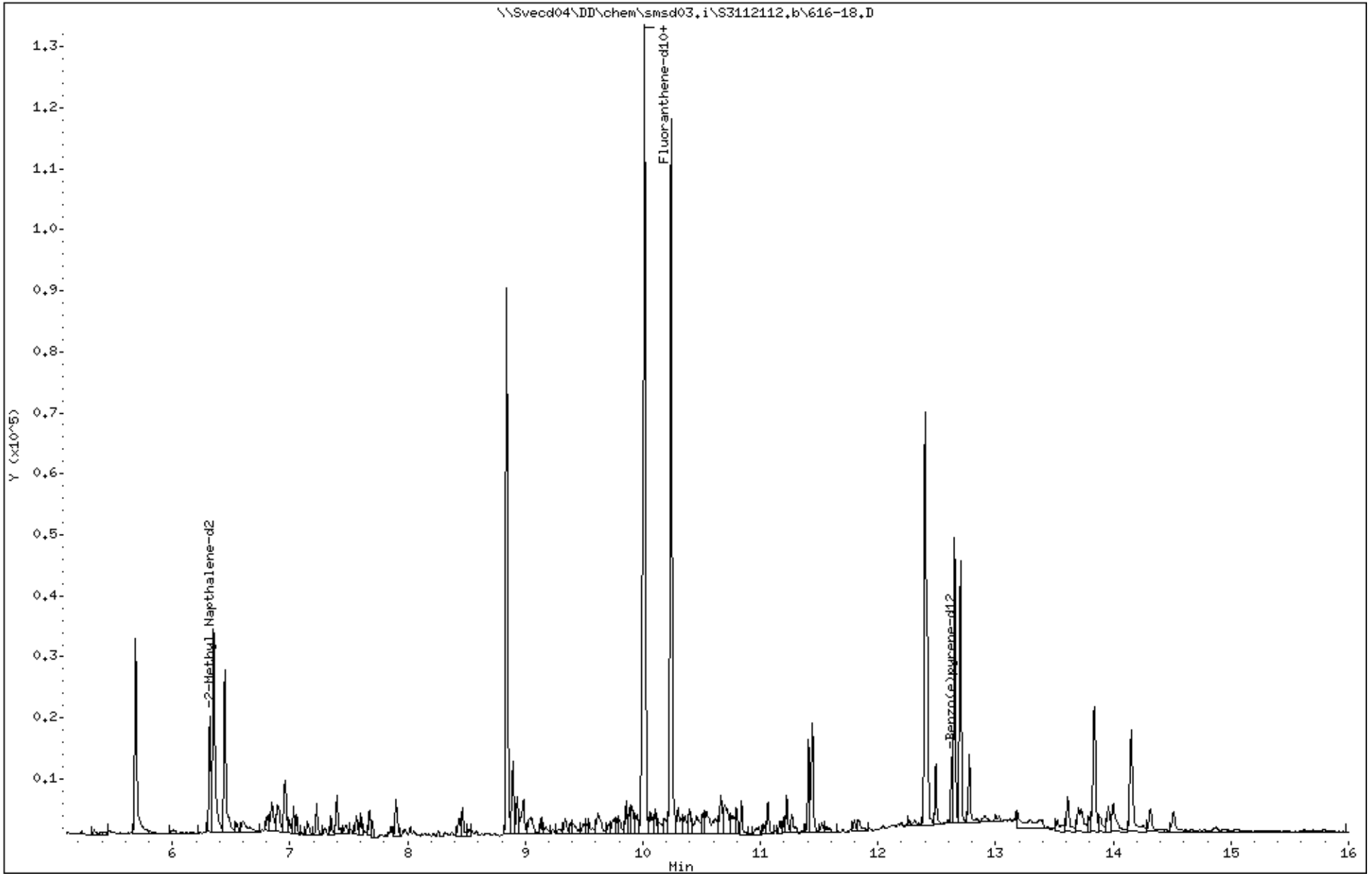
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-18.D
Date : 22-NOV-2012 01:38
Client ID: FM0210B-CS
Sample Info: SIM350761618

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

359

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-19.D
Lab Smp Id: 350761619 Client Smp ID: FM0210C-CS
Inj Date : 22-NOV-2012 02:01 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761619
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.060	Weight of sample extracted (g)
M	15.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.684	5.684 (0.900)	128	44434	1.03362		48.8	80.00- 120.00	100.00
	5.684	5.684 (0.900)	129	4602				0.00- 40.29	10.36
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.317	6.317 (1.000)	152	21331	0.80000			80.00- 120.00	100.00
	6.312	6.312 (1.000)	122	7347				2.00- 62.00	34.44
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.351	6.351 (1.005)	142	30813	1.05382		49.8	80.00- 120.00	100.00
	6.351	6.345 (1.005)	141	25732				55.71- 115.71	83.51
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.445	6.445 (1.020)	142	25491	0.92588		43.7	80.00- 120.00	100.00
	6.445	6.445 (1.020)	141	20751				57.13- 117.13	81.41
	5 Acenaphthylene						CAS #: 208-96-8		
	7.227	7.223 (1.144)	152	11309	0.25894		12.2	80.00- 120.00	100.00
	7.223	7.223 (1.143)	151	2242				0.00- 49.19	19.82
	6 Acenaphthene						CAS #: 83-32-9		
	7.395	7.395 (1.171)	153	18314	0.67394		31.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.395	7.395 (1.171)		152	9624			16.38- 76.38	52.55
	7 Fluorene					CAS #: 86-73-7		
7.900	7.900 (1.250)		166	15801	0.50649	23.9	80.00- 120.00	100.00
7.900	7.900 (1.250)		165	15529			63.07- 123.07	98.28
	9 Phenanthrene					CAS #: 85-01-8		
8.839	8.839 (0.884)		178	398648	8.08468	382	80.00- 120.00	100.00
8.845	8.844 (0.885)		179	67279			0.00- 45.12	16.88
	10 Anthracene					CAS #: 120-12-7		
8.893	8.893 (0.889)		178	64653	1.34372	63.4	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	15724			0.00- 45.01	24.32
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	37018	0.80000		80.00- 120.00	100.00
9.993	9.992 (1.000)		106	5553			0.00- 46.16	15.00
	12 Fluoranthene					CAS #: 206-44-0		
10.015	10.014 (1.002)		202	662875	12.2218	577	80.00- 120.00	100.00(A)
10.015	10.009 (1.002)		101	97652			0.00- 43.42	14.73
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240 (1.024)		202	545220	9.30816	440	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	96696			0.00- 45.54	17.74
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	79141	6.13770	290	80.00- 120.00	100.00
11.409	11.404 (1.141)		200	6704			0.00- 43.30	8.47
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443 (1.145)		226	90411	5.93036	280	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	8472			0.00- 42.53	9.37
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.400	12.395 (1.240)		252	355812	8.53199	403	80.00- 120.00	100.00
12.400	12.395 (1.240)		250	114768			0.00- 51.72	32.26
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.413	12.417 (1.242)		252	178266	3.00733	142	80.00- 120.00	100.00(M)
12.413	12.417 (1.242)		250	40681			0.00- 56.49	22.82
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.629	12.624 (1.263)		264	18437	0.35515	16.8	80.00- 120.00	100.00
12.625	12.620 (1.263)		132	3237			0.00- 47.65	17.56
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.700	12.695 (1.270)		252	200773	4.14240	196	80.00- 120.00	100.00
12.700	12.695 (1.270)		250	48099			0.00- 53.76	23.96
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.835 (1.384)		276	94097	1.63482	77.2	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.840	13.831	(1.384)	138	23528			0.07- 60.07	25.00
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.845	13.840	(1.385)	278	28315	0.58997	27.9	80.00- 120.00	100.00(Q)
13.840	13.831	(1.384)	138	23054			7.12- 67.12	81.42
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.156	14.147	(1.416)	276	97354	2.04896	96.8	80.00- 120.00	100.00
14.156	14.142	(1.416)	138	25727			0.00- 55.44	26.43

QC Flag Legend

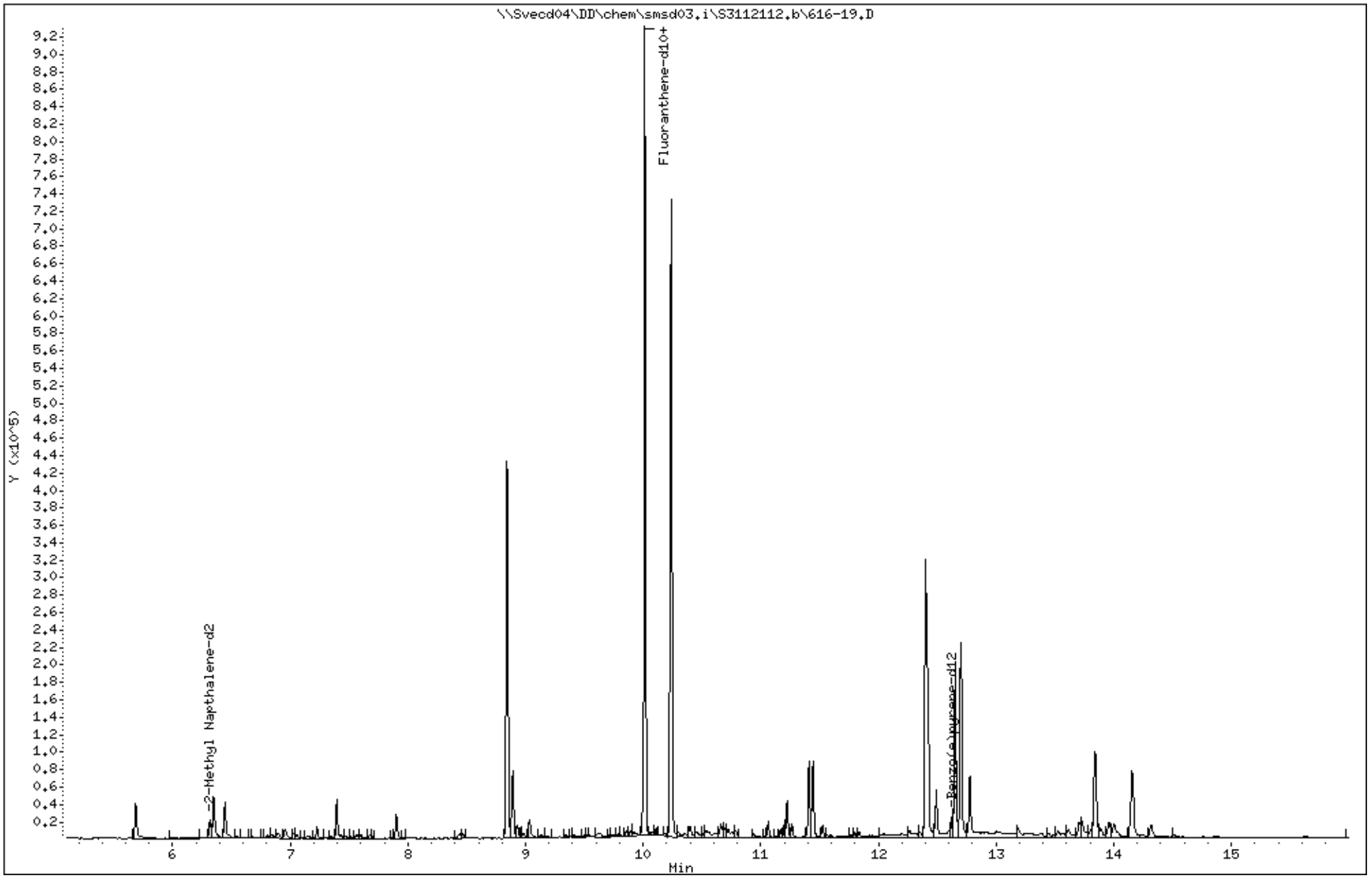
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-19.D
Date : 22-NOV-2012 02:01
Client ID: FM0210C-CS
Sample Info: SIM350761619

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

363

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-20.D
Lab Smp Id: 350761620 Client Smp ID: CV0362A-CS
Inj Date : 22-NOV-2012 02:25 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761620
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112112.b\SS8270.m
Meth Date : 29-Nov-2012 18:30 smsd03.i Quant Type: ISTD
Cal Date : 20-NOV-2012 19:50 Cal File: SSCAL1.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.080	Weight of sample extracted (g)
M	21.100	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.689	5.684 (0.901)		128	36190	0.86571	43.7	80.00- 120.00	100.00
5.689	5.684 (0.901)		129	3966			0.00- 40.29	10.96
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.317	6.317 (1.000)		152	20743	0.80000		80.00- 120.00	100.00
6.317	6.312 (1.000)		122	6870			2.00- 62.00	33.12
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.350	6.351 (1.005)		142	25842	0.90887	45.9	80.00- 120.00	100.00
6.350	6.345 (1.005)		141	21579			55.71- 115.71	83.50
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.444	6.445 (1.020)		142	20581	0.76873	38.8	80.00- 120.00	100.00
6.444	6.445 (1.020)		141	17456			57.13- 117.13	84.82
	5 Acenaphthylene					CAS #: 208-96-8		
7.228	7.223 (1.144)		152	24108	0.56763	28.7	80.00- 120.00	100.00
7.224	7.223 (1.144)		151	4457			0.00- 49.19	18.49
	6 Acenaphthene					CAS #: 83-32-9		
7.396	7.395 (1.171)		153	10406	0.39379	19.9	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.171)		152	5379			16.38- 76.38	51.69
	7 Fluorene					CAS #: 86-73-7		
7.904	7.900 (1.251)		166	10166	0.33510	16.9	80.00- 120.00	100.00
7.900	7.900 (1.251)		165	9884			63.07- 123.07	97.23
	9 Phenanthrene					CAS #: 85-01-8		
8.840	8.839 (0.884)		178	196760	4.41611	223	80.00- 120.00	100.00
8.845	8.844 (0.885)		179	31502			0.00- 45.12	16.01
	10 Anthracene					CAS #: 120-12-7		
8.894	8.893 (0.890)		178	44501	1.02358	51.7	80.00- 120.00	100.00
8.894	8.893 (0.890)		179	9956			0.00- 45.01	22.37
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	33449	0.80000		80.00- 120.00	100.00
9.997	9.992 (1.000)		106	5047			0.00- 46.16	15.09
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.014 (1.002)		202	388378	7.92482	400	80.00- 120.00	100.00
10.013	10.009 (1.002)		101	53574			0.00- 43.42	13.79
	13 Pyrene					CAS #: 129-00-0		
10.238	10.240 (1.024)		202	341255	6.44764	326	80.00- 120.00	100.00
10.238	10.234 (1.024)		101	58070			0.00- 45.54	17.02
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.404 (1.141)		226	81560	7.00245	354	80.00- 120.00	100.00
11.405	11.404 (1.141)		200	10130			0.00- 43.30	12.42
	15 Chrysene					CAS #: 218-01-9		
11.444	11.443 (1.145)		226	79903	5.80033	293	80.00- 120.00	100.00
11.440	11.439 (1.144)		200	10898			0.00- 42.53	13.64
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.398	12.395 (1.240)		252	288405	7.64196	386	80.00- 120.00	100.00(M)
12.398	12.395 (1.240)		250	76006			0.00- 51.72	26.35
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.417 (1.242)		252	163820	3.05851	154	80.00- 120.00	100.00(M)
12.403	12.417 (1.241)		250	63587			0.00- 56.49	38.82
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.628	12.624 (1.263)		264	12831	0.27353	13.8	80.00- 120.00	100.00
12.623	12.620 (1.263)		132	2146			0.00- 47.65	16.73
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.698	12.695 (1.270)		252	197675	4.51366	228	80.00- 120.00	100.00
12.698	12.695 (1.270)		250	48418			0.00- 53.76	24.49
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.839	13.835 (1.384)		276	89313	1.71727	86.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.839	13.831	(1.384)	138	22712			0.07- 60.07	25.43
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.843	13.840	(1.385)	278	29312	0.69377	35.0	80.00- 120.00	100.00(Q)
13.839	13.831	(1.384)	138	21936			7.12- 67.12	74.84
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
14.150	14.147	(1.415)	276	92977	2.16563	109	80.00- 120.00	100.00
14.150	14.142	(1.415)	138	24555			0.00- 55.44	26.41

QC Flag Legend

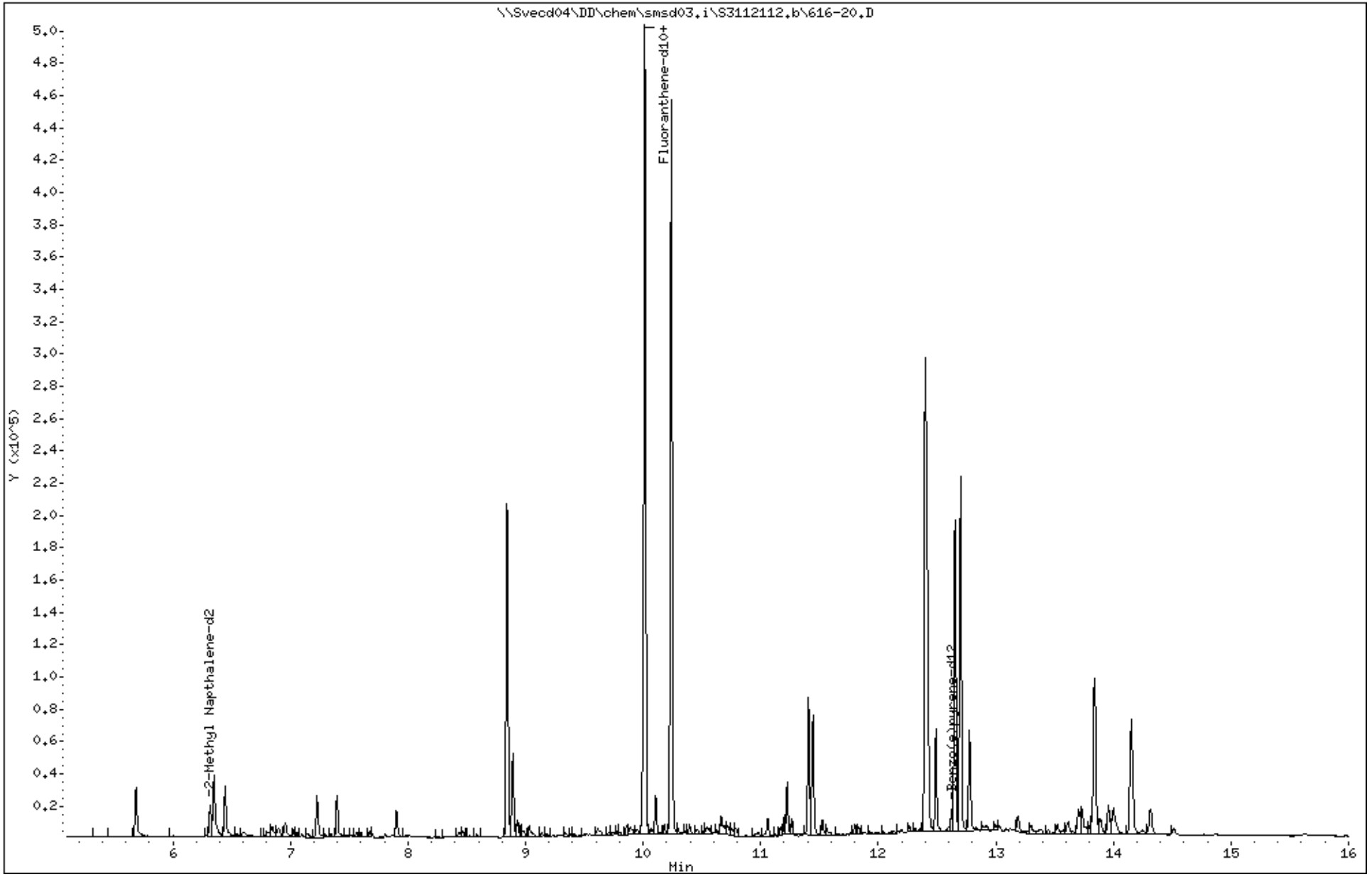
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112112.b\616-20.D
Date : 22-NOV-2012 02:25
Client ID: CV0362A-CS
Sample Info: SIM350761620

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

367

3507616



Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\DFTPP2.D
Report Date: 30-Nov-2012 09:49

PEL Laboratories, Inc.

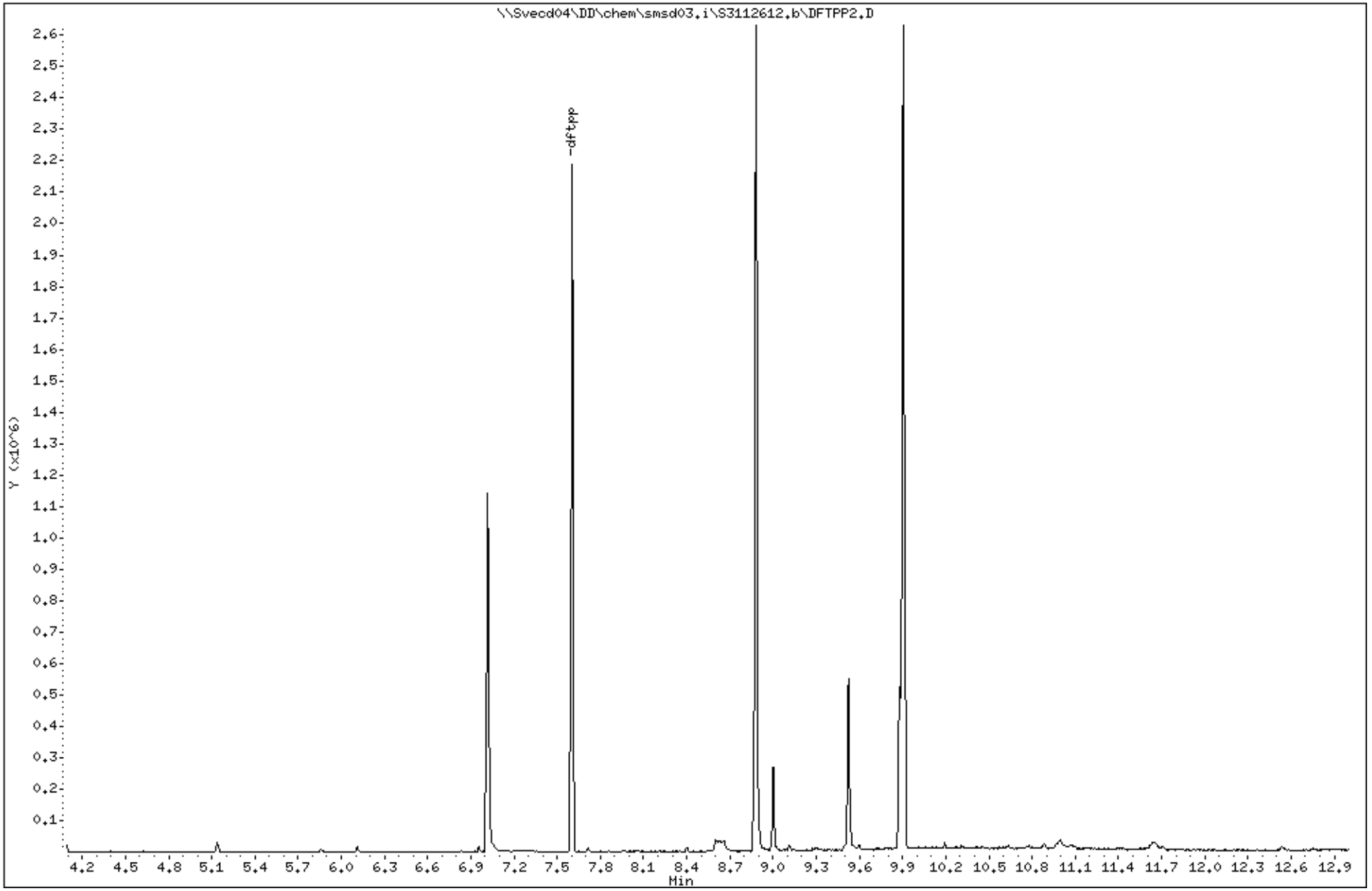
Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\DFTPP2.D
Lab Smp Id: 47701 Client Smp ID: DFTPP2
Inj Date : 26-NOV-2012 17:56
Operator : MJ Inst ID: smsd03.i
Smp Info : 47701
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112612.b\DoDTUN.m
Meth Date : 14-Sep-2012 08:05 mjacobs Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 100 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: WETCHEMDX500

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.603	7.713	(0.000)	198	221184			0.00- 100.00	100.00
7.603	7.713	(0.000)	51	59968			10.00- 80.00	27.11
7.603	7.713	(0.000)	68	243			0.00- 2.00	0.32
7.603	7.713	(0.000)	69	75288			0.00- 0.00	34.04
7.603	7.713	(0.000)	70	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	127	100080			10.00- 80.00	45.25
7.603	7.713	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.603	7.713	(0.000)	199	15287			5.00- 9.00	6.91
7.603	7.713	(0.000)	275	55072			10.00- 60.00	24.90
7.603	7.713	(0.000)	365	5201			1.00- 0.00	2.35
7.603	7.713	(0.000)	441	27864			0.01- 24.00	14.34
7.603	7.713	(0.000)	442	194368			50.00- 0.00	87.88
7.603	7.713	(0.000)	443	38344			15.00- 24.00	19.73

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\DFTPP2.D
Date : 26-NOV-2012 17:56
Client ID: DFTPP2 Instrument: smsd03.i
Sample Info: 47701
Volume Injected (uL): 1.0 Operator: MJ
Column phase: Column diameter: 2.00



369

3507616

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\DFTPP2.D

Date : 26-NOV-2012 17:56

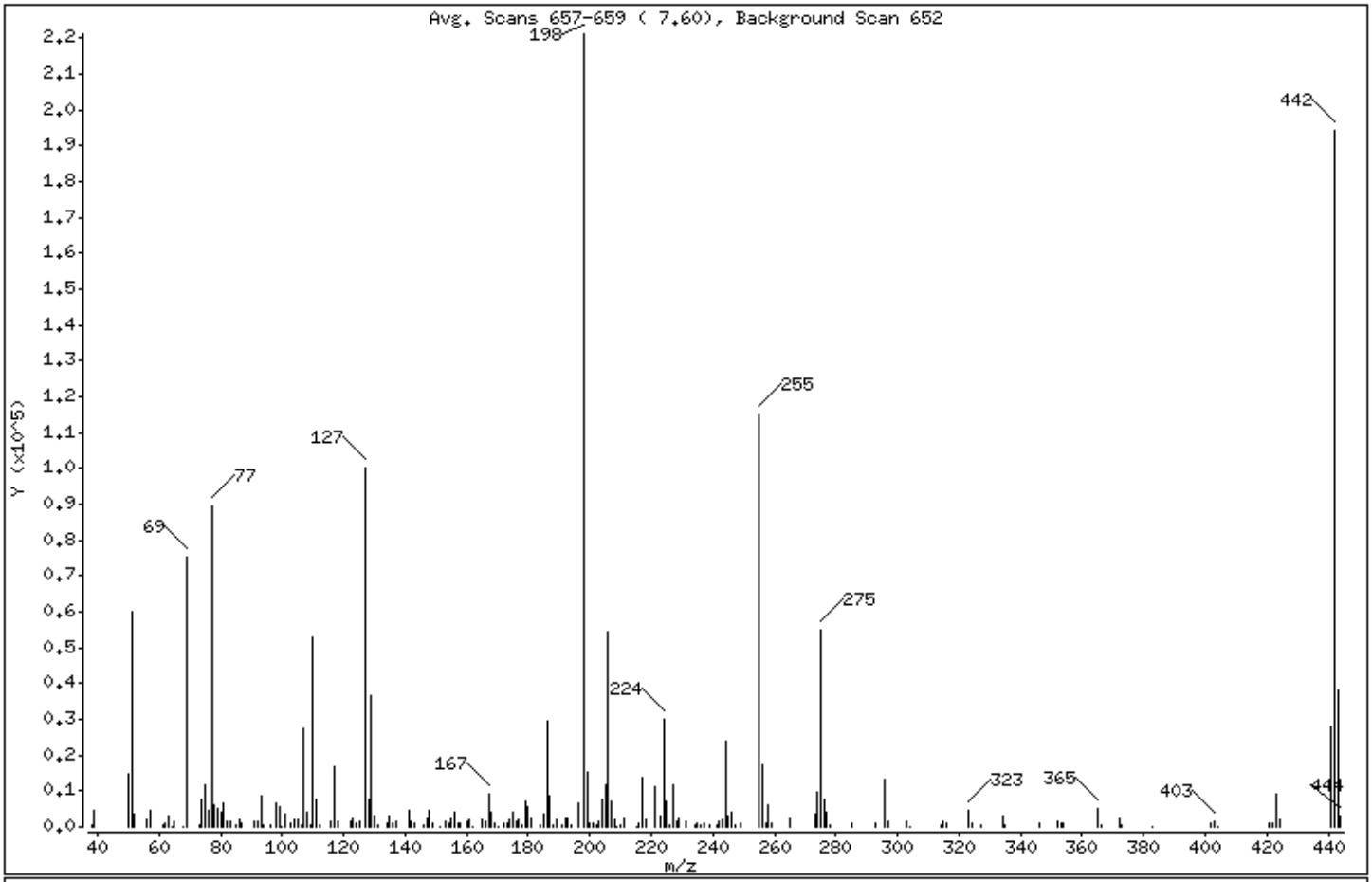
Client ID: DFTPP2 Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	27.11
68	Less than 2.00% of mass 69	0.11 (0.32)
69	Mass 69 relative abundance	34.04
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.25
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	24.90
365	Greater than 1.00% of mass 198	2.35
441	0.01 - 24.00% of mass 442	12.60 (14.34)
442	Greater than 50.00% of mass 198	87.88
443	15.00 - 24.00% of mass 442	17.34 (19.73)

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\DFTPP2.D

Date : 26-NOV-2012 17:56

Client ID: DFTPP2 Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 657-659 (7.60), Background Scan 652
Location of Maximum: 198.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	638	118.00	1548	186.00	29376	255.00	114984
39.00	4554	122.00	1740	187.00	8584	256.00	17096
50.00	14711	123.00	2736	188.00	753	257.00	1224
51.00	59968	124.00	1174	189.00	1789	258.00	6200
52.00	3311	125.00	1355	191.00	725	259.00	1091
56.00	2091	127.00	100080	192.00	2347	265.00	2382
57.00	4540	128.00	7776	193.00	2558	273.00	3543
61.00	646	129.00	36512	194.00	271	274.00	9624
62.00	1138	130.00	3298	196.00	6840	275.00	55072
63.00	2798	131.00	344	198.00	221184	276.00	7670
64.00	220	134.00	802	199.00	15287	277.00	4056
65.00	1661	135.00	2912	200.00	1159	278.00	601
68.00	243	136.00	1089	201.00	814	285.00	850
69.00	75288	137.00	1552	202.00	528	293.00	857
73.00	266	141.00	4477	203.00	1574	296.00	13115
74.00	7379	142.00	1661	204.00	7641	297.00	1747
75.00	11469	143.00	1196	205.00	11845	303.00	1594
76.00	4323	146.00	546	206.00	54176	304.00	243
77.00	89632	147.00	2338	207.00	7213	314.00	309
78.00	6028	148.00	4497	208.00	1928	315.00	1598
79.00	5276	149.00	1005	209.00	220	316.00	923
80.00	4060	151.00	231	210.00	381	323.00	4547
81.00	6363	153.00	1492	211.00	2350	324.00	898
82.00	1779	154.00	1013	215.00	226	327.00	380
83.00	1676	155.00	2671	216.00	1232	334.00	2950
85.00	713	156.00	4089	217.00	13602	335.00	554
86.00	1781	157.00	976	218.00	1844	346.00	1023
87.00	797	158.00	914	221.00	11374	352.00	1382
91.00	1668	160.00	1478	223.00	2906	353.00	961
92.00	1495	161.00	2166	224.00	29880	354.00	1265
93.00	8636	162.00	251	225.00	7052	365.00	5201
94.00	511	165.00	1880	226.00	497	366.00	657
96.00	274	166.00	1412	227.00	11471	372.00	2335
98.00	6627	167.00	9189	228.00	1551	373.00	507
99.00	5367	168.00	4092	229.00	2705	383.00	230

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\DFTPP2.D

Date : 26-NOV-2012 17:56

Client ID: DFTPP2 Instrument: smsd03.i

Sample Info: 47701

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 657-659 (7.60), Background Scan 652
Location of Maximum: 198.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
100.00	225	169.00	990	231.00	1272	402.00	1002
101.00	3566	170.00	232	234.00	640	403.00	1299
103.00	1262	172.00	923	235.00	882	404.00	218
104.00	2142	173.00	831	236.00	358	421.00	1174
105.00	2215	174.00	1952	237.00	1018	422.00	1154
106.00	636	175.00	3897	239.00	268	423.00	9009
107.00	27240	176.00	1440	241.00	319	424.00	1790
108.00	4142	177.00	1997	242.00	1478	441.00	27864
109.00	592	178.00	278	243.00	1882	442.00	194368
110.00	52808	179.00	7170	244.00	24152	443.00	38344
111.00	7663	180.00	5386	245.00	3170	444.00	3243
112.00	708	181.00	2399	246.00	4309		
116.00	1394	184.00	291	247.00	756		
117.00	17024	185.00	3656	249.00	1022		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 18:28

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112612.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/28/2012 10:07

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112612.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 17:50

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112612.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 18:21

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112612.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:49

Datafile Analyzed: //Svecd04/DD/chem/smsd03.i/S3112612.b/DFTPP2.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\SSCCV1.D
Lab Smp Id: 47785 Client Smp ID: SSCCV1
Inj Date : 26-NOV-2012 18:16
Operator : MJ Inst ID: smsd03.i
Smp Info : 47785
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112612.b\SS8270.m
Meth Date : 29-Nov-2012 18:08 smsd03.i Quant Type: ISTD
Cal Date : 19-NOV-2012 20:17 Cal File: SSCAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.688	5.688 (0.901)	128	28674	0.50000		0.51	80.00- 120.00	100.00
	5.688	5.688 (0.901)	129	2828				0.00- 39.86	9.86
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.316	6.316 (1.000)	152	27859	0.80000			80.00- 120.00	100.00
	6.316	6.316 (1.000)	122	8899				1.94- 61.94	31.94
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.349	6.349 (1.005)	142	18394	0.50000		0.48	80.00- 120.00	100.00
	6.349	6.349 (1.005)	141	15739				55.57- 115.57	85.57
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.444	6.444 (1.020)	142	18556	0.50000		0.52	80.00- 120.00	100.00
	6.444	6.444 (1.020)	141	16100				56.76- 116.76	86.76
	5 Acenaphthylene						CAS #: 208-96-8		
	7.223	7.223 (1.144)	152	28290	0.50000		0.50	80.00- 120.00	100.00
	7.223	7.223 (1.144)	151	5325				0.00- 48.82	18.82
	6 Acenaphthene						CAS #: 83-32-9		
	7.395	7.395 (1.171)	153	17982	0.50000		0.51	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.395	7.395 (1.171)		152	8336			16.36- 76.36	46.36
7 Fluorene						CAS #: 86-73-7		
7.904	7.904 (1.251)		166	20250	0.50000	0.50	80.00- 120.00	100.00
7.900	7.900 (1.251)		165	18673			62.21- 122.21	92.21
8 Pentachlorophenol						CAS #: 87-86-5		
8.645	8.645 (0.865)		266	6606	5.00000	1.9	80.00- 120.00	100.00(A)
8.645	8.645 (0.865)		264	4318			35.36- 95.36	65.36
9 Phenanthrene						CAS #: 85-01-8		
8.845	8.845 (0.885)		178	31310	0.50000	0.45	80.00- 120.00	100.00
8.845	8.845 (0.885)		179	4880			0.00- 45.59	15.59
10 Anthracene						CAS #: 120-12-7		
8.893	8.893 (0.889)		178	31732	0.50000	0.47	80.00- 120.00	100.00
8.893	8.893 (0.889)		179	4852			0.00- 45.29	15.29
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	51698	0.80000		80.00- 120.00	100.00
9.993	9.993 (1.000)		106	8411			0.00- 46.27	16.27
12 Fluoranthene						CAS #: 206-44-0		
10.015	10.015 (1.002)		202	36888	0.50000	0.49	80.00- 120.00	100.00
10.015	10.015 (1.002)		101	5013			0.00- 43.59	13.59
13 Pyrene						CAS #: 129-00-0		
10.240	10.240 (1.024)		202	38903	0.50000	0.48	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	6144			0.00- 45.79	15.79
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.408	11.408 (1.141)		226	9061	0.50000	0.49	80.00- 120.00	100.00
11.405	11.405 (1.141)		200	1180			0.00- 43.02	13.02
15 Chrysene						CAS #: 218-01-9		
11.444	11.444 (1.145)		226	9972	0.50000	0.47	80.00- 120.00	100.00
11.444	11.444 (1.145)		200	1257			0.00- 42.61	12.61
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.399	12.399 (1.240)		252	31476	0.50000	0.44	80.00- 120.00	100.00
12.394	12.394 (1.240)		250	7619			0.00- 54.21	24.21
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.421	12.421 (1.242)		252	37996	0.50000	0.46	80.00- 120.00	100.00
12.421	12.421 (1.242)		250	9282			0.00- 54.43	24.43
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.628	12.628 (1.263)		264	32258	0.50000	0.44	80.00- 120.00	100.00
12.624	12.624 (1.263)		132	6716			0.00- 50.82	20.82
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.699	12.699 (1.270)		252	29267	0.50000	0.43	80.00- 120.00	100.00

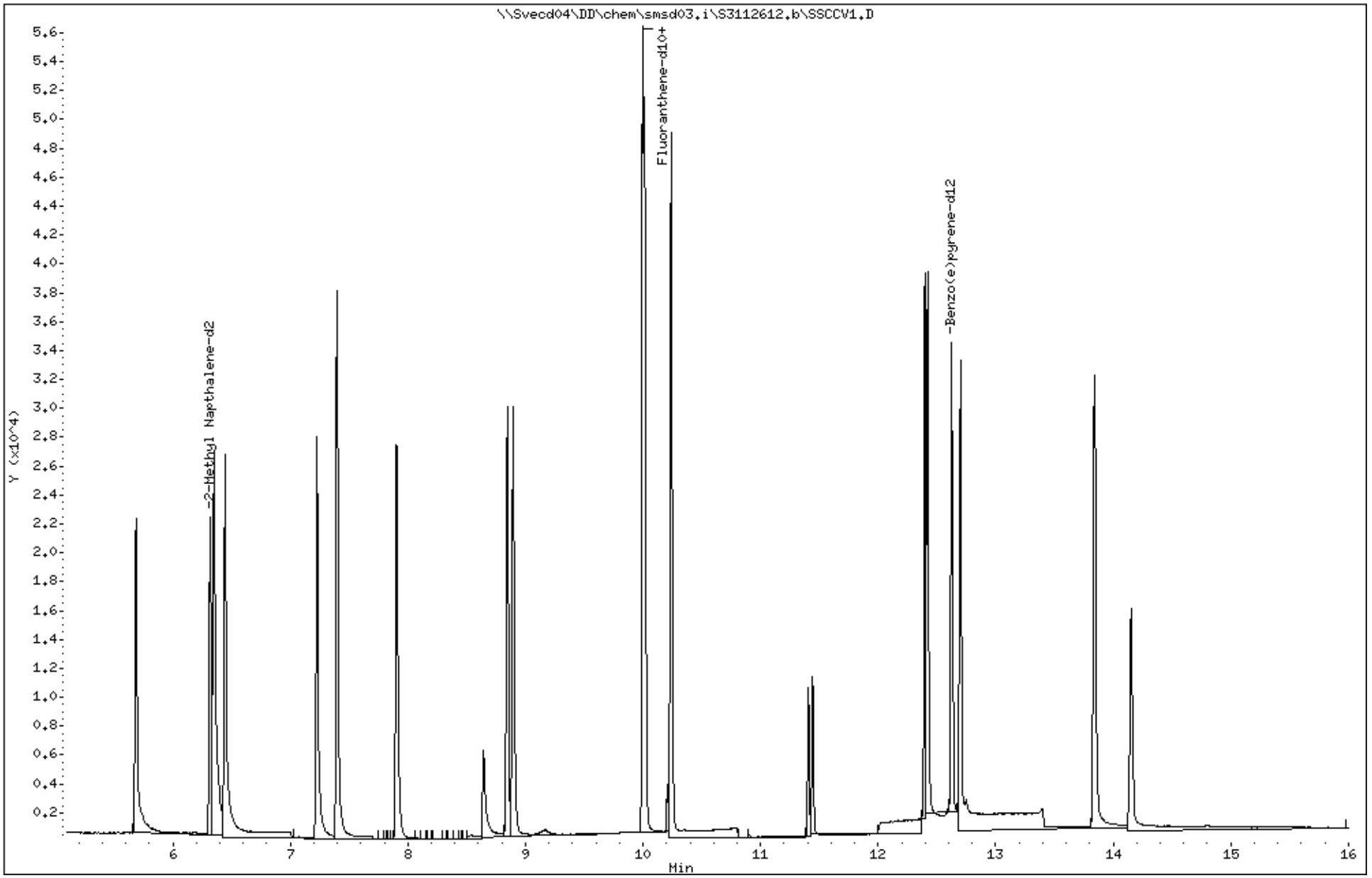
RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	19 Benzo[a]pyrene (continued)							
12.699	12.699	(1.270)	250	7176			0.00- 54.52	24.52
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.840	(1.384)	276	24179	0.50000	0.30	80.00- 120.00	100.00
13.840	13.840	(1.384)	138	7465			0.87- 60.87	30.87
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.845	13.845	(1.385)	278	20463	0.50000	0.25	80.00- 120.00	100.00
13.840	13.840	(1.384)	138	7399			6.16- 66.16	36.16
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.152	14.152	(1.415)	276	20374	0.50000	0.31	80.00- 120.00	100.00
14.152	14.152	(1.415)	138	5172			0.00- 55.39	25.39

QC Flag Legend

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

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\SSCCV1.D
Date : 26-NOV-2012 18:16
Client ID: SSCCV1
Sample Info: 47785

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



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3507616

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Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\61608D20.D
Lab Smp Id: 350761608 Client Smp ID: FM0263A-CS-SP
Inj Date : 26-NOV-2012 22:42 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761608
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112612.b\SS8270.m
Meth Date : 29-Nov-2012 18:08 smsd03.i Quant Type: ISTD
Cal Date : 19-NOV-2012 20:17 Cal File: SSCAL1.D
Als bottle: 7
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	20.000	Dilution Factor
Ws	25.210	Weight of sample extracted (g)
M	20.800	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.689	5.688 (0.900)		128	3577	0.06681	66.9	80.00- 120.00	100.00
	5.689	5.688 (0.900)		129	264			0.00- 39.86	7.38
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.323	6.316 (1.000)		152	26568	0.80000		80.00- 120.00	100.00
	6.317	6.316 (1.000)		122	8136			1.94- 61.94	30.62
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.351	6.349 (1.004)		142	1456	0.03998	40.0	80.00- 120.00	100.00
	6.351	6.349 (1.004)		141	1201			55.57- 115.57	82.49
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.445	6.444 (1.019)		142	1305	0.03806	38.1	80.00- 120.00	100.00
	6.445	6.444 (1.019)		141	1012			56.76- 116.76	77.55
	5 Acenaphthylene						CAS #: 208-96-8		
	7.229	7.223 (1.143)		152	1114	0.02048	20.5	80.00- 120.00	100.00
	7.229	7.223 (1.143)		151	183			0.00- 48.82	16.43
	6 Acenaphthene						CAS #: 83-32-9		
	7.396	7.395 (1.170)		153	3431	0.10137	102	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.396	7.395 (1.170)		152	1489			16.36- 76.36	43.40
	7 Fluorene					CAS #: 86-73-7		
7.908	7.904 (1.251)		166	3279	0.08439	84.5	80.00- 120.00	100.00
7.904	7.900 (1.250)		165	2979			62.21- 122.21	90.85
	9 Phenanthrene					CAS #: 85-01-8		
8.845	8.845 (0.885)		178	48557	0.81685	818	80.00- 120.00	100.00
8.845	8.845 (0.885)		179	7591			0.00- 45.59	15.63
	10 Anthracene					CAS #: 120-12-7		
8.899	8.893 (0.890)		178	12771	0.22017	220	80.00- 120.00	100.00
8.899	8.893 (0.890)		179	2185			0.00- 45.29	17.11
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998 (1.000)		212	44627	0.80000		80.00- 120.00	100.00
9.997	9.993 (1.000)		106	7159			0.00- 46.27	16.04
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.015 (1.002)		202	84992	1.29986	1300	80.00- 120.00	100.00
10.013	10.015 (1.002)		101	11582			0.00- 43.59	13.63
	13 Pyrene					CAS #: 129-00-0		
10.238	10.240 (1.024)		202	65397	0.92612	928	80.00- 120.00	100.00
10.238	10.234 (1.024)		101	11341			0.00- 45.79	17.34
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.408 (1.141)		226	10726	0.67588	677	80.00- 120.00	100.00
11.409	11.405 (1.141)		200	1472			0.00- 43.02	13.72
	15 Chrysene					CAS #: 218-01-9		
11.444	11.444 (1.145)		226	12335	0.67114	672	80.00- 120.00	100.00
11.444	11.444 (1.145)		200	1730			0.00- 42.61	14.03
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.399 (1.240)		252	46899	0.83271	834	80.00- 120.00	100.00(M)
12.399	12.394 (1.240)		250	11898			0.00- 54.21	25.37
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.413	12.421 (1.242)		252	22413	0.31364	314	80.00- 120.00	100.00(M)
12.413	12.421 (1.242)		250	4954			0.00- 54.43	22.10
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.699 (1.270)		252	29107	0.49815	499	80.00- 120.00	100.00
12.699	12.699 (1.270)		250	6980			0.00- 54.52	23.98
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.839	13.840 (1.384)		276	14378	0.20721	208	80.00- 120.00	100.00
13.835	13.840 (1.384)		138	3738			0.87- 60.87	26.00
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.150	14.152 (1.415)		276	15493	0.27048	271	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
22 Benzo[g,h,i]perylene (continued)								
14.150	14.152	(1.415)	138	4117			0.00- 55.39	26.57

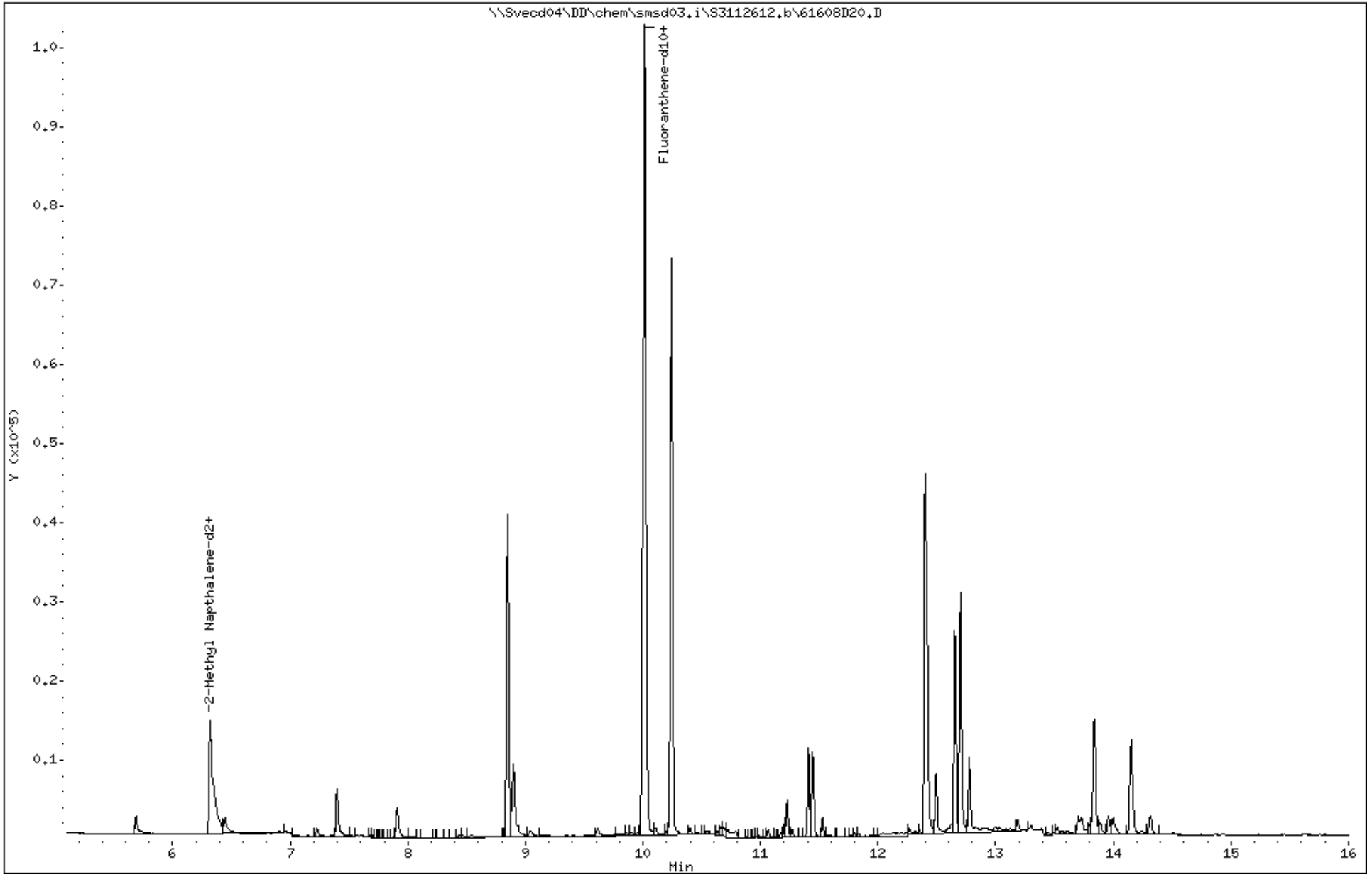
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\61608D20.D
Date : 26-NOV-2012 22:42
Client ID: FM0263A-CS-SP
Sample Info: SIM350761608

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



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3507616

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Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\61609D20.D
Lab Smp Id: 350761609 Client Smp ID: FM0263B-CS-SP
Inj Date : 26-NOV-2012 23:05 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761609
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd03.i\S3112612.b\SS8270.m
Meth Date : 29-Nov-2012 18:08 smsd03.i Quant Type: ISTD
Cal Date : 19-NOV-2012 20:17 Cal File: SSCAL1.D
Als bottle: 8
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	20.000	Dilution Factor
Ws	25.290	Weight of sample extracted (g)
M	17.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.688	5.688 (0.900)		128	2924	0.05674	54.4	80.00- 120.00	100.00
5.688	5.688 (0.900)		129	287			0.00- 39.86	9.82
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.322	6.316 (1.000)		152	25570	0.80000		80.00- 120.00	100.00
6.316	6.316 (1.000)		122	7979			1.94- 61.94	31.20
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.349	6.349 (1.004)		142	2076	0.05923	56.8	80.00- 120.00	100.00
6.349	6.349 (1.004)		141	1750			55.57- 115.57	84.30
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.444	6.444 (1.019)		142	1821	0.05518	52.9	80.00- 120.00	100.00
6.444	6.444 (1.019)		141	1893			56.76- 116.76	103.95
6 Acenaphthene						CAS #: 83-32-9		
7.395	7.395 (1.170)		153	3020	0.09271	88.9	80.00- 120.00	100.00
7.395	7.395 (1.170)		152	1343			16.36- 76.36	44.47
7 Fluorene						CAS #: 86-73-7		
7.904	7.904 (1.250)		166	2772	0.07412	71.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	7 Fluorene (continued)							
7.904	7.900	(1.250)	165	2575			62.21- 122.21	92.89
	9 Phenanthrene					CAS #: 85-01-8		
8.845	8.845	(0.885)	178	61802	1.10133	1060	80.00- 120.00	100.00
8.845	8.845	(0.885)	179	9615			0.00- 45.59	15.56
	10 Anthracene					CAS #: 120-12-7		
8.899	8.893	(0.890)	178	10246	0.18712	179	80.00- 120.00	100.00
8.899	8.893	(0.890)	179	1522			0.00- 45.29	14.85
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998	(1.000)	212	42128	0.80000		80.00- 120.00	100.00
9.993	9.993	(1.000)	106	6675			0.00- 46.27	15.84
	12 Fluoranthene					CAS #: 206-44-0		
10.015	10.015	(1.002)	202	80048	1.29687	1240	80.00- 120.00	100.00
10.015	10.015	(1.002)	101	10602			0.00- 43.59	13.24
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240	(1.024)	202	73796	1.10705	1060	80.00- 120.00	100.00
10.240	10.234	(1.024)	101	12431			0.00- 45.79	16.85
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.408	(1.141)	226	7675	0.50846	487	80.00- 120.00	100.00
11.408	11.405	(1.141)	200	1101			0.00- 43.02	14.35
	15 Chrysene					CAS #: 218-01-9		
11.444	11.444	(1.145)	226	9979	0.57516	551	80.00- 120.00	100.00
11.440	11.444	(1.144)	200	1410			0.00- 42.61	14.13
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.400	12.399	(1.240)	252	35757	0.65092	624	80.00- 120.00	100.00(M)
12.400	12.394	(1.240)	250	9130			0.00- 54.21	25.53
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.413	12.421	(1.242)	252	17292	0.25633	246	80.00- 120.00	100.00(M)
12.413	12.421	(1.242)	250	4051			0.00- 54.43	23.43
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.700	12.699	(1.270)	252	22958	0.41622	399	80.00- 120.00	100.00
12.700	12.699	(1.270)	250	5503			0.00- 54.52	23.97
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.840	(1.384)	276	11777	0.17979	172	80.00- 120.00	100.00
13.836	13.840	(1.384)	138	2761			0.87- 60.87	23.44
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.152	14.152	(1.415)	276	12735	0.23552	226	80.00- 120.00	100.00
14.152	14.152	(1.415)	138	3341			0.00- 55.39	26.23

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\61609D20.D
Date : 26-NOV-2012 23:05
Client ID: FM0263B-CS-SP
Sample Info: SIM350761609

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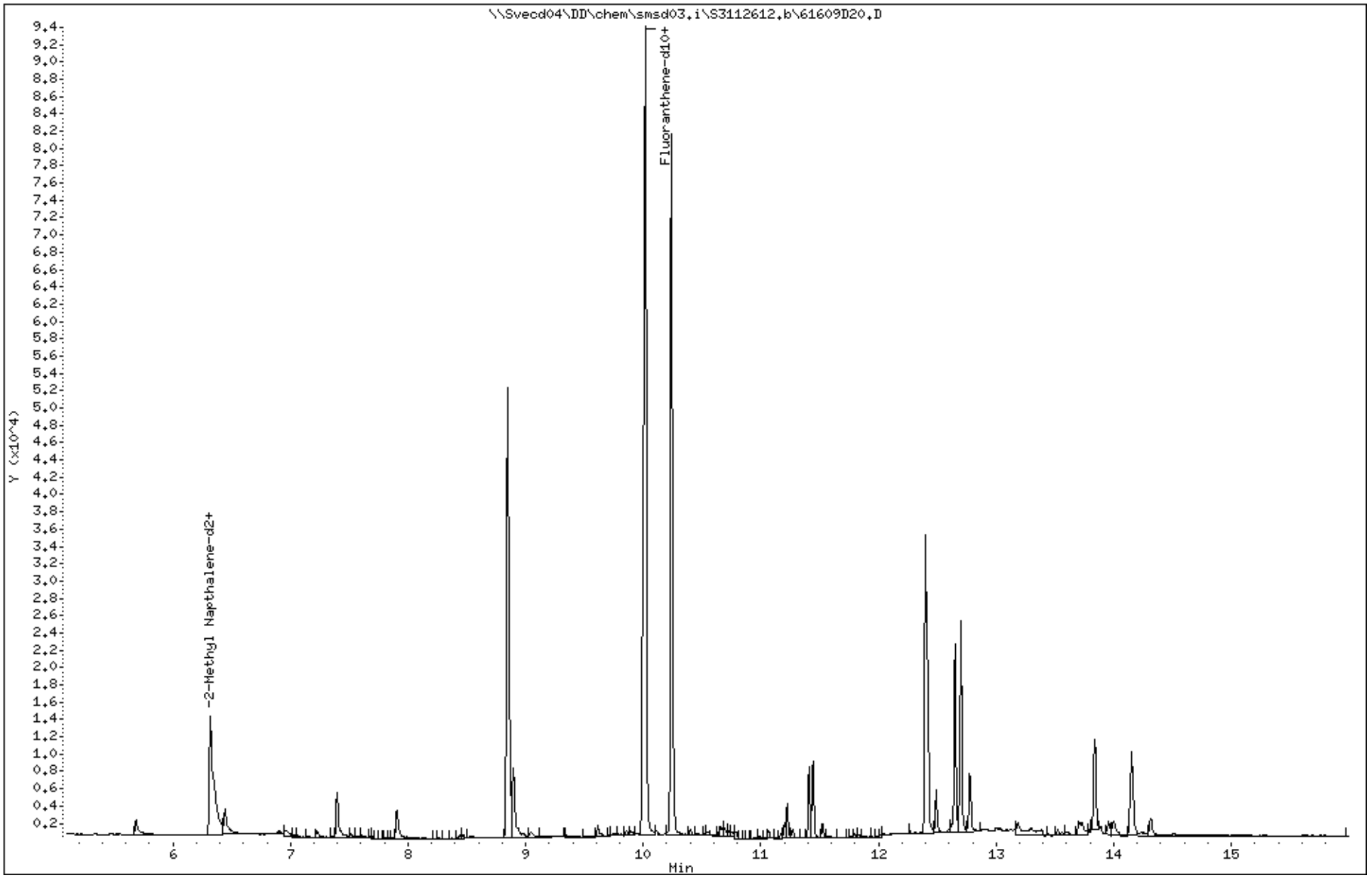
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



385

3507616

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Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\61610D20.D
Lab Smp Id: 350761610 Client Smp ID: FM0263C-CS-SP
Inj Date : 26-NOV-2012 23:29 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761610
Misc Info :
Comment :
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Meth Date : 29-Nov-2012 18:08 smsd03.i Quant Type: ISTD
Cal Date : 19-NOV-2012 20:17 Cal File: SSCAL1.D
Als bottle: 9
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	20.000	Dilution Factor
Ws	25.790	Weight of sample extracted (g)
M	22.100	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.688	5.688 (0.900)		128	7864	0.15664	156	80.00- 120.00	100.00
5.688	5.688 (0.900)		129	592			0.00- 39.86	7.53
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.322	6.316 (1.000)		152	24911	0.80000		80.00- 120.00	100.00
6.316	6.316 (1.000)		122	7737			1.94- 61.94	31.06
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.350	6.349 (1.004)		142	2611	0.07646	76.1	80.00- 120.00	100.00
6.350	6.349 (1.004)		141	2216			55.57- 115.57	84.87
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.444	6.444 (1.019)		142	2098	0.06525	65.0	80.00- 120.00	100.00
6.444	6.444 (1.019)		141	1574			56.76- 116.76	75.02
5 Acenaphthylene						CAS #: 208-96-8		
7.228	7.223 (1.143)		152	1201	0.02355	23.4	80.00- 120.00	100.00
7.228	7.223 (1.143)		151	197			0.00- 48.82	16.40
6 Acenaphthene						CAS #: 83-32-9		
7.395	7.395 (1.170)		153	7128	0.22461	224	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.395	7.395 (1.170)		152	3018			16.36- 76.36	42.34
	7 Fluorene					CAS #: 86-73-7		
7.904	7.904 (1.250)		166	6091	0.16718	166	80.00- 120.00	100.00
7.904	7.900 (1.250)		165	5462			62.21- 122.21	89.67
	9 Phenanthrene					CAS #: 85-01-8		
8.844	8.845 (0.885)		178	99015	2.00032	1990	80.00- 120.00	100.00
8.844	8.845 (0.885)		179	15650			0.00- 45.59	15.81
	10 Anthracene					CAS #: 120-12-7		
8.898	8.893 (0.890)		178	18719	0.38755	386	80.00- 120.00	100.00
8.898	8.893 (0.890)		179	3651			0.00- 45.29	19.50
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.998	9.998 (1.000)		212	37161	0.80000		80.00- 120.00	100.00
9.993	9.993 (1.000)		106	5802			0.00- 46.27	15.61
	12 Fluoranthene					CAS #: 206-44-0		
10.014	10.015 (1.002)		202	116034	2.13116	2120	80.00- 120.00	100.00
10.014	10.015 (1.002)		101	15193			0.00- 43.59	13.09
	13 Pyrene					CAS #: 129-00-0		
10.240	10.240 (1.024)		202	88649	1.50762	1500	80.00- 120.00	100.00
10.234	10.234 (1.024)		101	14942			0.00- 45.79	16.86
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.408 (1.141)		226	12536	0.95506	951	80.00- 120.00	100.00
11.405	11.405 (1.141)		200	1671			0.00- 43.02	13.33
	15 Chrysene					CAS #: 218-01-9		
11.444	11.444 (1.145)		226	14499	0.94738	943	80.00- 120.00	100.00
11.440	11.444 (1.144)		200	1587			0.00- 42.61	10.95
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.399 (1.240)		252	57732	1.28477	1280	80.00- 120.00	100.00(M)
12.399	12.394 (1.240)		250	14610			0.00- 54.21	25.31
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.421 (1.241)		252	27788	0.46698	465	80.00- 120.00	100.00(M)
12.412	12.421 (1.241)		250	6118			0.00- 54.43	22.02
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.699 (1.270)		252	35316	0.72585	722	80.00- 120.00	100.00
12.699	12.699 (1.270)		250	8467			0.00- 54.52	23.97
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.840	13.840 (1.384)		276	16605	0.28738	286	80.00- 120.00	100.00
13.835	13.840 (1.384)		138	4306			0.87- 60.87	25.93
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.151	14.152 (1.415)		276	17111	0.35874	357	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
22 Benzo[g,h,i]perylene (continued)								
14.151	14.152	(1.415)	138	4484			0.00- 55.39	26.21

QC Flag Legend

M - Compound response manually integrated.

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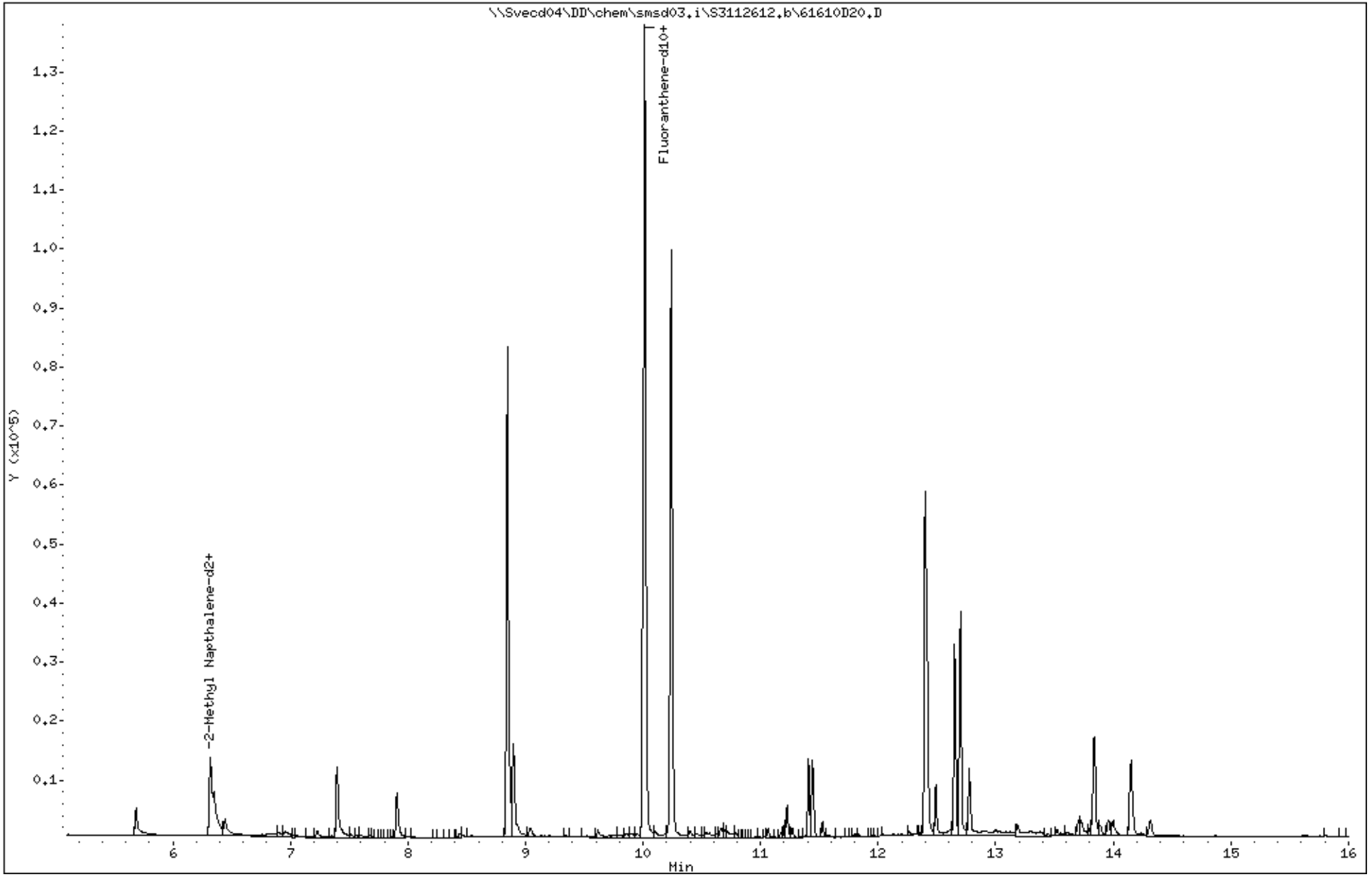
Client ID: FM0263C-CS-SP
Sample Info: SIM350761610

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

389

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\61615D20.D
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Inj Date : 26-NOV-2012 23:52 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
Smp Info : SIM350761615
Misc Info :
Comment :
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Meth Date : 29-Nov-2012 18:08 smsd03.i Quant Type: ISTD
Cal Date : 19-NOV-2012 20:17 Cal File: SSCAL1.D
Als bottle: 10
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	20.000	Dilution Factor
Ws	25.010	Weight of sample extracted (g)
M	19.200	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.688	5.688 (0.900)		128	1976	0.03917	38.8	80.00- 120.00	100.00
5.688	5.688 (0.900)		129	142			0.00- 39.86	7.19
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.322	6.316 (1.000)		152	25034	0.80000		80.00- 120.00	100.00
6.316	6.316 (1.000)		122	7893			1.94- 61.94	31.53
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.355	6.349 (1.005)		142	1106	0.03223	31.9	80.00- 120.00	100.00
6.350	6.349 (1.004)		141	924			55.57- 115.57	83.54
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.444	6.444 (1.019)		142	893	0.02764	27.4	80.00- 120.00	100.00
6.444	6.444 (1.019)		141	732			56.76- 116.76	81.97
6 Acenaphthene						CAS #: 83-32-9		
7.395	7.395 (1.170)		153	914	0.02866	28.4	80.00- 120.00	100.00
7.395	7.395 (1.170)		152	433			16.36- 76.36	47.37
9 Phenanthrene						CAS #: 85-01-8		
8.844	8.845 (0.885)		178	23203	0.44512	440	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	9 Phenanthrene (continued)							
8.850	8.845	(0.885)	179	3674			0.00- 45.59	15.83
	10 Anthracene					CAS #: 120-12-7		
8.899	8.893	(0.890)	178	6738	0.13247	131	80.00- 120.00	100.00
8.899	8.893	(0.890)	179	1070			0.00- 45.29	15.88
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998	(1.000)	212	39134	0.80000		80.00- 120.00	100.00
9.997	9.993	(1.000)	106	6292			0.00- 46.27	16.08
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.015	(1.002)	202	73700	1.28538	1270	80.00- 120.00	100.00
10.013	10.015	(1.002)	101	9503			0.00- 43.59	12.89
	13 Pyrene					CAS #: 129-00-0		
10.238	10.240	(1.024)	202	70226	1.13409	1120	80.00- 120.00	100.00
10.238	10.234	(1.024)	101	11609			0.00- 45.79	16.53
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.408	11.408	(1.141)	226	9375	0.67362	667	80.00- 120.00	100.00
11.408	11.405	(1.141)	200	1295			0.00- 43.02	13.81
	15 Chrysene					CAS #: 218-01-9		
11.444	11.444	(1.145)	226	10149	0.62971	623	80.00- 120.00	100.00
11.444	11.444	(1.145)	200	996			0.00- 42.61	9.81
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.399	(1.240)	252	38520	0.77281	765	80.00- 120.00	100.00(M)
12.399	12.394	(1.240)	250	9925			0.00- 54.21	25.77
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.421	(1.242)	252	21614	0.34491	341	80.00- 120.00	100.00(M)
12.412	12.421	(1.242)	250	4903			0.00- 54.43	22.68
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.699	(1.270)	252	25101	0.48989	485	80.00- 120.00	100.00
12.699	12.699	(1.270)	250	5975			0.00- 54.52	23.80
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.839	13.840	(1.384)	276	10509	0.17271	171	80.00- 120.00	100.00
13.839	13.840	(1.384)	138	2323			0.87- 60.87	22.10
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.150	14.152	(1.416)	276	10664	0.21230	210	80.00- 120.00	100.00
14.150	14.152	(1.416)	138	2737			0.00- 55.39	25.67

QC Flag Legend

M - Compound response manually integrated.

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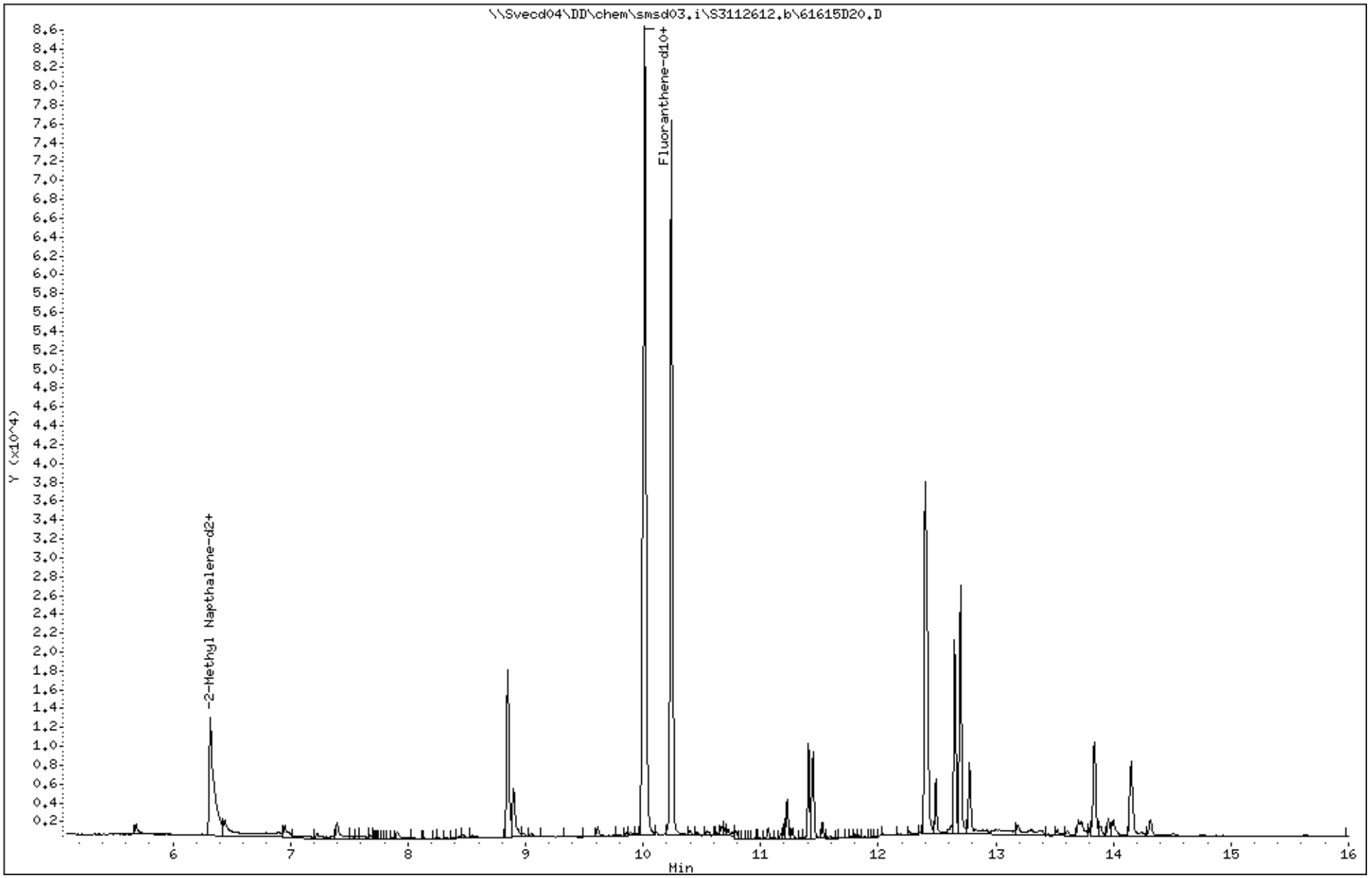
Date : 26-NOV-2012 23:52
Client ID: CV0699B-CS
Sample Info: SIM350761615

Instrument: smsd03.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd03.i\S3112612.b\61619D20.D
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Inj Date : 27-NOV-2012 00:16 MS Autotune Date: 30-MAY-2012 16:20
Operator : MJ Inst ID: smsd03.i
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Misc Info :
Comment :
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Meth Date : 29-Nov-2012 18:08 smsd03.i Quant Type: ISTD
Cal Date : 19-NOV-2012 20:17 Cal File: SSCAL1.D
Als bottle: 11
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	20.000	Dilution Factor
Ws	25.060	Weight of sample extracted (g)
M	15.500	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
1 Naphthalene							CAS #: 91-20-3	
5.689	5.688 (0.900)		128	2587	0.04947	46.7	80.00- 120.00	100.00
5.689	5.688 (0.900)		129	215			0.00- 39.86	8.31
* 2 2-Methyl Napthalene-d2							CAS #: 7927-45-2	
6.322	6.316 (1.000)		152	25950	0.80000		80.00- 120.00	100.00
6.317	6.316 (1.000)		122	7972			1.94- 61.94	30.72
3 2-Methylnaphthalene							CAS #: 91-57-6	
6.350	6.349 (1.004)		142	1544	0.04341	41.0	80.00- 120.00	100.00
6.350	6.349 (1.004)		141	1336			55.57- 115.57	86.53
4 1-Methylnaphthalene							CAS #: 90-12-0	
6.445	6.444 (1.019)		142	1301	0.03884	36.7	80.00- 120.00	100.00
6.445	6.444 (1.019)		141	1047			56.76- 116.76	80.48
6 Acenaphthene							CAS #: 83-32-9	
7.396	7.395 (1.170)		153	1115	0.03373	31.8	80.00- 120.00	100.00
7.396	7.395 (1.170)		152	560			16.36- 76.36	50.22
7 Fluorene							CAS #: 86-73-7	
7.904	7.904 (1.250)		166	824	0.02171	20.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	7 Fluorene (continued)							
7.904	7.900	(1.250)	165	778			62.21- 122.21	94.42
	9 Phenanthrene					CAS #: 85-01-8		
8.845	8.845	(0.885)	178	27991	0.48191	455	80.00- 120.00	100.00
8.845	8.845	(0.885)	179	4474			0.00- 45.59	15.98
	10 Anthracene					CAS #: 120-12-7		
8.899	8.893	(0.890)	178	4404	0.07770	73.4	80.00- 120.00	100.00
8.937	8.893	(0.894)	179	482			0.00- 45.29	10.94
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.997	9.998	(1.000)	212	43605	0.80000		80.00- 120.00	100.00
9.997	9.993	(1.000)	106	7047			0.00- 46.27	16.16
	12 Fluoranthene					CAS #: 206-44-0		
10.013	10.015	(1.002)	202	44535	0.69708	658	80.00- 120.00	100.00
10.013	10.015	(1.002)	101	6018			0.00- 43.59	13.51
	13 Pyrene					CAS #: 129-00-0		
10.239	10.240	(1.024)	202	36004	0.52182	493	80.00- 120.00	100.00
10.239	10.234	(1.024)	101	5737			0.00- 45.79	15.93
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.409	11.408	(1.141)	226	4244	0.26422	250	80.00- 120.00	100.00
11.409	11.405	(1.141)	200	575			0.00- 43.02	13.55
	15 Chrysene					CAS #: 218-01-9		
11.444	11.444	(1.145)	226	5223	0.29084	275	80.00- 120.00	100.00
11.444	11.444	(1.145)	200	781			0.00- 42.61	14.95
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.399	12.399	(1.240)	252	18853	0.27642	261	80.00- 120.00	100.00(M)
12.399	12.394	(1.240)	250	4835			0.00- 54.21	25.65
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.412	12.421	(1.242)	252	9694	0.13883	131	80.00- 120.00	100.00(M)
12.412	12.421	(1.242)	250	2314			0.00- 54.43	23.87
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.699	12.699	(1.270)	252	11079	0.19405	183	80.00- 120.00	100.00
12.699	12.699	(1.270)	250	2707			0.00- 54.52	24.43
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.839	13.840	(1.384)	276	5968	0.08802	83.1	80.00- 120.00	100.00
13.839	13.840	(1.384)	138	1323			0.87- 60.87	22.17
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
14.151	14.152	(1.415)	276	6088	0.10878	103	80.00- 120.00	100.00
14.146	14.152	(1.415)	138	1637			0.00- 55.39	26.89

QC Flag Legend

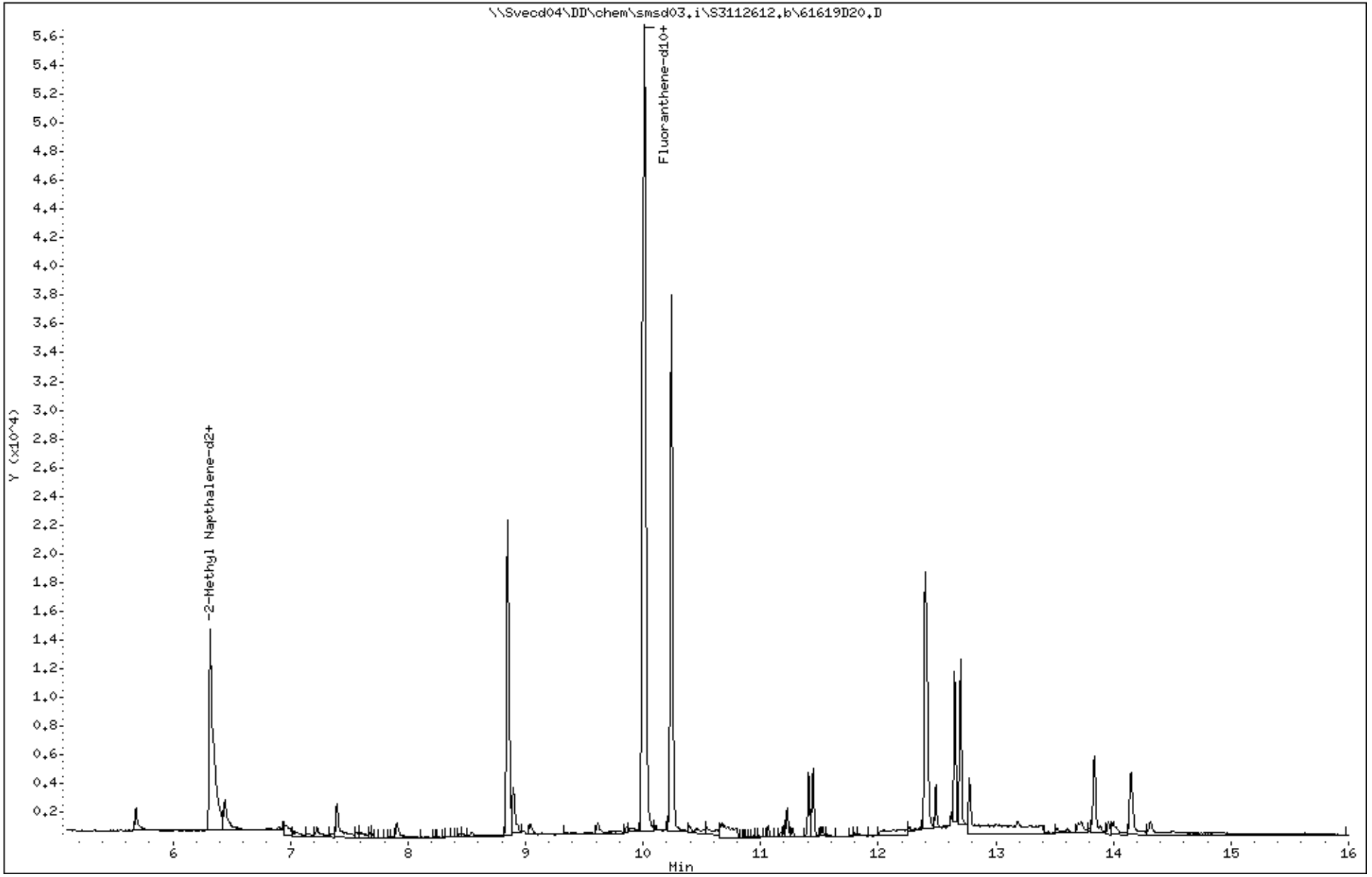
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd03.i\S3112612.b\61619D20.D
Date : 27-NOV-2012 00:16
Client ID: FM0210C-CS
Sample Info: SIM350761619

Instrument: smsd03.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

396

3507616



Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D
Report Date: 30-Nov-2012 09:53

PEL Laboratories, Inc.

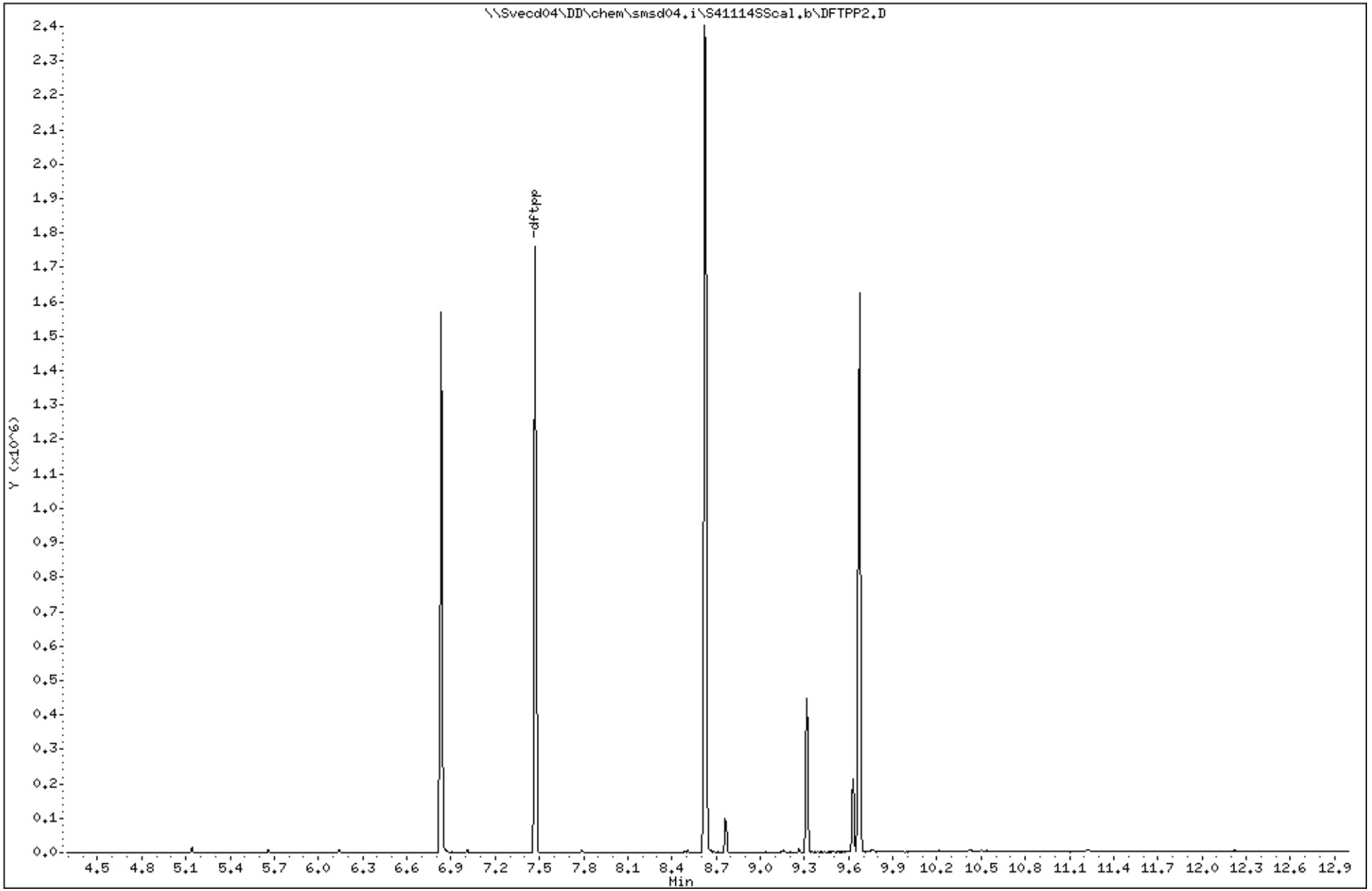
Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D
Lab Smp Id: 47137 Client Smp ID: DFTPP2
Inj Date : 14-NOV-2012 19:35
Operator : MJ Inst ID: smsd04.i
Smp Info : 47137
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DoDTUN.m
Meth Date : 06-Aug-2012 11:47 Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.474	7.410	(0.000)	198	160768			0.00- 100.00	100.00
7.474	7.410	(0.000)	51	63144			10.00- 80.00	39.28
7.474	7.410	(0.000)	68	0	0.0	0.0	0.00- 2.00	0.00
7.474	7.410	(0.000)	69	80600			0.00- 0.00	50.13
7.474	7.410	(0.000)	70	0	0.0	0.0	0.00- 2.00	0.00
7.474	7.410	(0.000)	127	76144			10.00- 80.00	47.36
7.474	7.410	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.474	7.410	(0.000)	199	11183			5.00- 9.00	6.96
7.474	7.410	(0.000)	275	40952			10.00- 60.00	25.47
7.474	7.410	(0.000)	365	5692			1.00- 0.00	3.54
7.474	7.410	(0.000)	441	21680			0.01- 24.00	16.90
7.474	7.410	(0.000)	442	128272			50.00- 0.00	79.79
7.474	7.410	(0.000)	443	25920			15.00- 24.00	20.21

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D
Date : 14-NOV-2012 19:35
Client ID: DFTPP2 Instrument: smsd04.i
Sample Info: 47137
Volume Injected (uL): 1.0 Operator: MJ
Column phase: Column diameter: 2.00



398

3507616

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D

Date : 14-NOV-2012 19:35

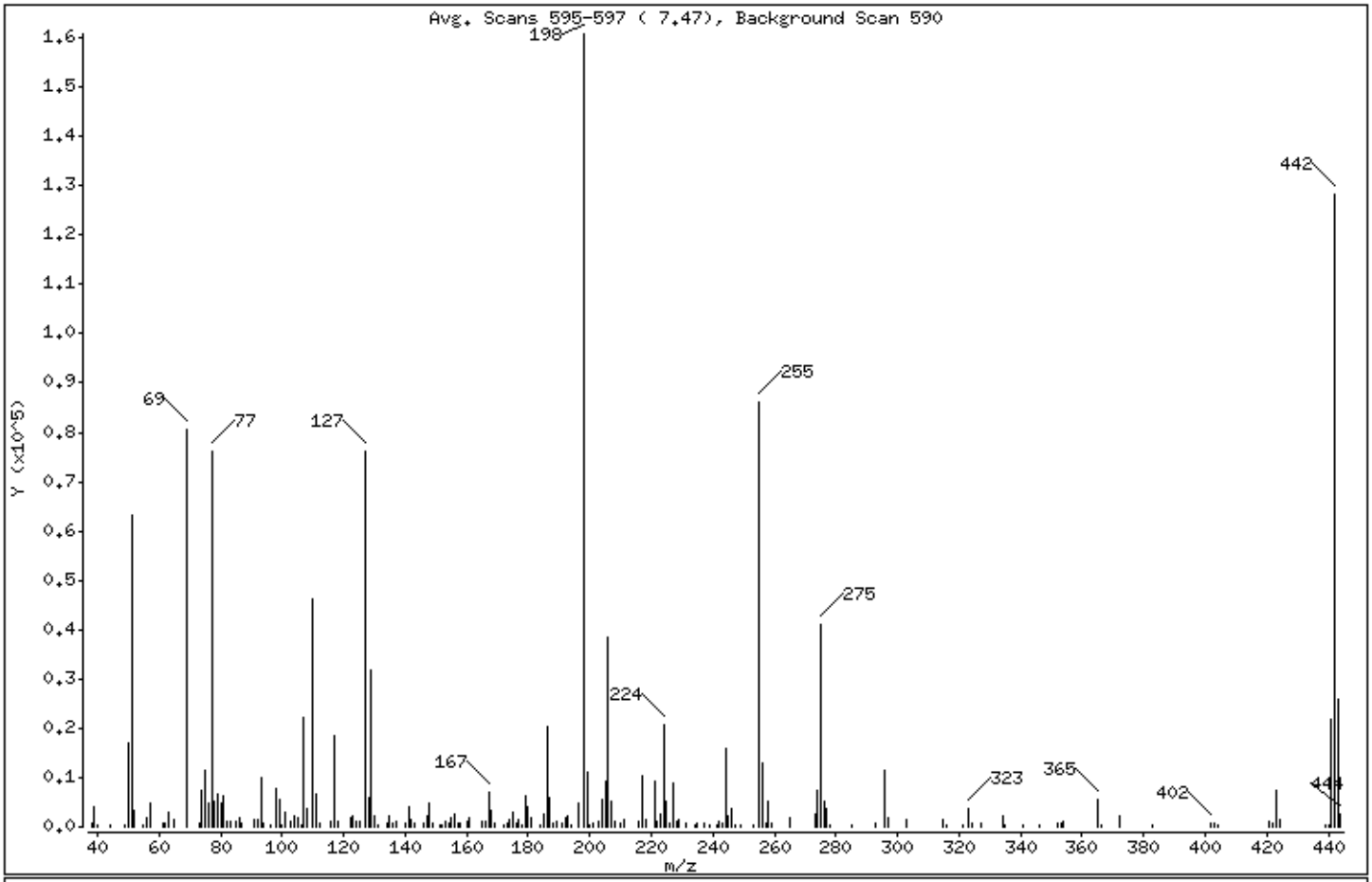
Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.28
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.13
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	47.36
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 60.00% of mass 198	25.47
365	Greater than 1.00% of mass 198	3.54
441	0.01 - 24.00% of mass 442	13.49 (16.90)
442	Greater than 50.00% of mass 198	79.79
443	15.00 - 24.00% of mass 442	16.12 (20.21)

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D

Date : 14-NOV-2012 19:35

Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 595-597 (7.47), Background Scan 590
Location of Maximum: 198.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	910	117.00	18576	185.00	2429	256.00	13046
39.00	4153	118.00	1122	186.00	20160	257.00	902
40.00	236	122.00	1714	187.00	5897	258.00	5084
44.00	453	123.00	2400	188.00	566	259.00	681
49.00	421	124.00	992	189.00	1001	265.00	1840
50.00	17128	125.00	1027	191.00	584	273.00	2539
51.00	63144	127.00	76144	192.00	1867	274.00	7462
52.00	3208	128.00	5903	193.00	2047	275.00	40952
55.00	280	129.00	31840	194.00	227	276.00	5331
56.00	1896	130.00	2396	196.00	4817	277.00	3615
57.00	4860	131.00	229	198.00	160768	278.00	525
61.00	769	134.00	797	199.00	11183	285.00	512
62.00	914	135.00	2365	200.00	543	293.00	744
63.00	3063	136.00	707	201.00	570	296.00	11478
65.00	1458	137.00	1016	203.00	989	297.00	1700
69.00	80600	140.00	612	204.00	5569	303.00	1356
73.00	716	141.00	4057	205.00	9144	315.00	1444
74.00	7389	142.00	1428	206.00	38584	316.00	527
75.00	11569	143.00	663	207.00	5073	321.00	239
76.00	4743	146.00	658	208.00	1105	323.00	3708
77.00	76048	147.00	2285	210.00	690	324.00	585
78.00	5210	148.00	4809	211.00	1447	327.00	808
79.00	6563	149.00	879	216.00	1071	334.00	2264
80.00	4810	151.00	549	217.00	10264	335.00	320
81.00	6197	152.00	248	218.00	1330	341.00	258
82.00	1165	153.00	1157	221.00	9191	346.00	254
83.00	1017	154.00	821	222.00	1017	352.00	828
85.00	965	155.00	1916	223.00	2455	353.00	561
86.00	1722	156.00	2682	224.00	20648	354.00	950
87.00	729	157.00	563	225.00	5275	365.00	5692
91.00	1296	158.00	590	226.00	573	366.00	232
92.00	1642	160.00	1212	227.00	8987	372.00	2049
93.00	9928	161.00	1712	228.00	1011	383.00	240
94.00	631	165.00	1218	229.00	1493	402.00	833
96.00	273	166.00	1209	231.00	570	403.00	575

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D

Date : 14-NOV-2012 19:35

Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 595-597 (7.47), Background Scan 590
Location of Maximum: 198.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	7775	167.00	7202	234.00	500	404.00	222
99.00	5512	168.00	3358	235.00	626	421.00	1109
100.00	333	169.00	629	237.00	898	422.00	888
101.00	3060	172.00	541	239.00	224	423.00	7248
103.00	959	173.00	806	241.00	271	424.00	1605
104.00	2143	174.00	1497	242.00	1026	439.00	314
105.00	1970	175.00	3068	243.00	609	440.00	254
106.00	538	176.00	730	244.00	16074	441.00	21680
107.00	22328	177.00	1606	245.00	2224	442.00	128272
108.00	3678	178.00	484	246.00	3578	443.00	25920
110.00	46328	179.00	6155	247.00	489	444.00	2496
111.00	6632	180.00	4188	249.00	311		
112.00	593	181.00	1907	253.00	448		
116.00	1011	184.00	249	255.00	86256		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 16:38

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 16:54

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 18:04

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/28/2012 10:14

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 10:14

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 17:50

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 18:22

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:53

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL7.d
Lab Smp Id: 47782 Client Smp ID: SSCAL7
Inj Date : 14-NOV-2012 19:53 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47782
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 19:53 Cal File: SSCAL7.d
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.480	5.478 (1.000)	128	106440	10.0000		10.3	80.00- 120.00	100.00(A)
	5.480	5.478 (1.000)	129	11614				0.00- 30.00	10.91
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.116	6.106 (1.000)	152	5025	0.80000			80.00- 120.00	100.00(M)
	6.108	6.106 (0.999)	122	2384				13.59- 73.59	47.44
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.140	6.138 (1.000)	142	72439	10.0000		10.1	80.00- 120.00	100.00(A)
	6.140	6.138 (1.000)	141	62043				66.11- 126.11	85.65
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.243	6.241 (1.000)	142	65468	10.0000		10	80.00- 120.00	100.00
	6.243	6.241 (1.000)	141	58395				64.49- 124.49	89.20
	5 Acenaphthylene						CAS #: 208-96-8		
	7.018	7.015 (1.000)	152	111771	10.0000		10.9	80.00- 120.00	100.00(A)
	7.018	7.015 (1.000)	151	21609				0.00- 41.18	19.33
	6 Acenaphthene						CAS #: 83-32-9		
	7.195	7.193 (1.000)	153	71343	10.0000		10.2	80.00- 120.00	100.00(A)

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.195	7.193 (1.000)		152	33929			13.30- 73.30	47.56
7 Fluorene						CAS #: 86-73-7		
7.692	7.690 (1.000)		166	85686	10.0000	10.3	80.00- 120.00	100.00(A)
7.692	7.690 (1.000)		165	79306			61.41- 121.41	92.55
8 Pentachlorophenol						CAS #: 87-86-5		
8.483	8.474 (0.867)		266	28823	20.0000	20.4	80.00- 120.00	100.00(A)
8.476	8.474 (0.867)		264	18960			39.89- 99.89	65.78
9 Phenanthrene						CAS #: 85-01-8		
8.622	8.619 (0.882)		178	123494	10.0000	10.2	80.00- 120.00	100.00(A)
8.622	8.619 (0.882)		176	23438			0.00- 41.18	18.98
10 Anthracene						CAS #: 120-12-7		
8.665	8.663 (0.886)		178	119609	10.0000	11.0	80.00- 120.00	100.00(A)
8.665	8.663 (0.886)		176	21925			0.00- 39.42	18.33
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	8432	0.80000		80.00- 120.00	100.00
9.780	9.777 (1.000)		106	1036			0.00- 44.41	12.29
12 Fluoranthene						CAS #: 206-44-0		
9.795	9.793 (1.002)		202	135981	10.0000	10.1	80.00- 120.00	100.00(A)
9.795	9.793 (1.002)		101	14047			0.00- 30.00	10.33
13 Pyrene						CAS #: 129-00-0		
10.018	10.015 (1.024)		202	140486	10.0000	10.2	80.00- 120.00	100.00(A)
10.010	10.015 (1.024)		101	17539			0.00- 36.40	12.48
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.190	11.188 (1.144)		226	34513	10.0000	11.4	80.00- 120.00	100.00(A)
11.190	11.188 (1.144)		200	5182			0.00- 30.00	15.01
15 Chrysene						CAS #: 218-01-9		
11.232	11.229 (1.148)		226	38347	10.0000	10.7	80.00- 120.00	100.00(A)
11.232	11.229 (1.148)		200	5556			0.00- 30.00	14.49
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.193	12.190 (1.247)		252	156681	10.0000	12.3	80.00- 120.00	100.00(A)
12.193	12.190 (1.247)		250	37879			0.00- 47.79	24.18
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.216	12.214 (1.249)		252	141663	10.0000	9.8	80.00- 120.00	100.00
12.216	12.214 (1.249)		250	30437			0.00- 56.48	21.49
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.415	12.405 (1.269)		264	123882	10.0000	10.6	80.00- 120.00	100.00(A)
12.407	12.405 (1.269)		132	16113			0.00- 36.00	13.01
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.479	12.476 (1.276)		252	122243	10.0000	11.4	80.00- 120.00	100.00(A)

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.479	12.476	(1.276)	250	28425			0.00- 40.19	23.25
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.560	13.550	(1.387)	276	139964	10.0000	11.4	80.00- 120.00	100.00(A)
13.560	13.550	(1.387)	138	29408			0.00- 37.88	21.01
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.568	13.566	(1.387)	278	114660	10.0000	11.4	80.00- 120.00	100.00(A)
13.560	13.566	(1.387)	138	29527			0.00- 38.19	25.75
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.847	13.836	(1.416)	276	116796	10.0000	10.9	80.00- 120.00	100.00(A)
13.847	13.836	(1.416)	138	20915			0.00- 30.00	17.91

QC Flag Legend

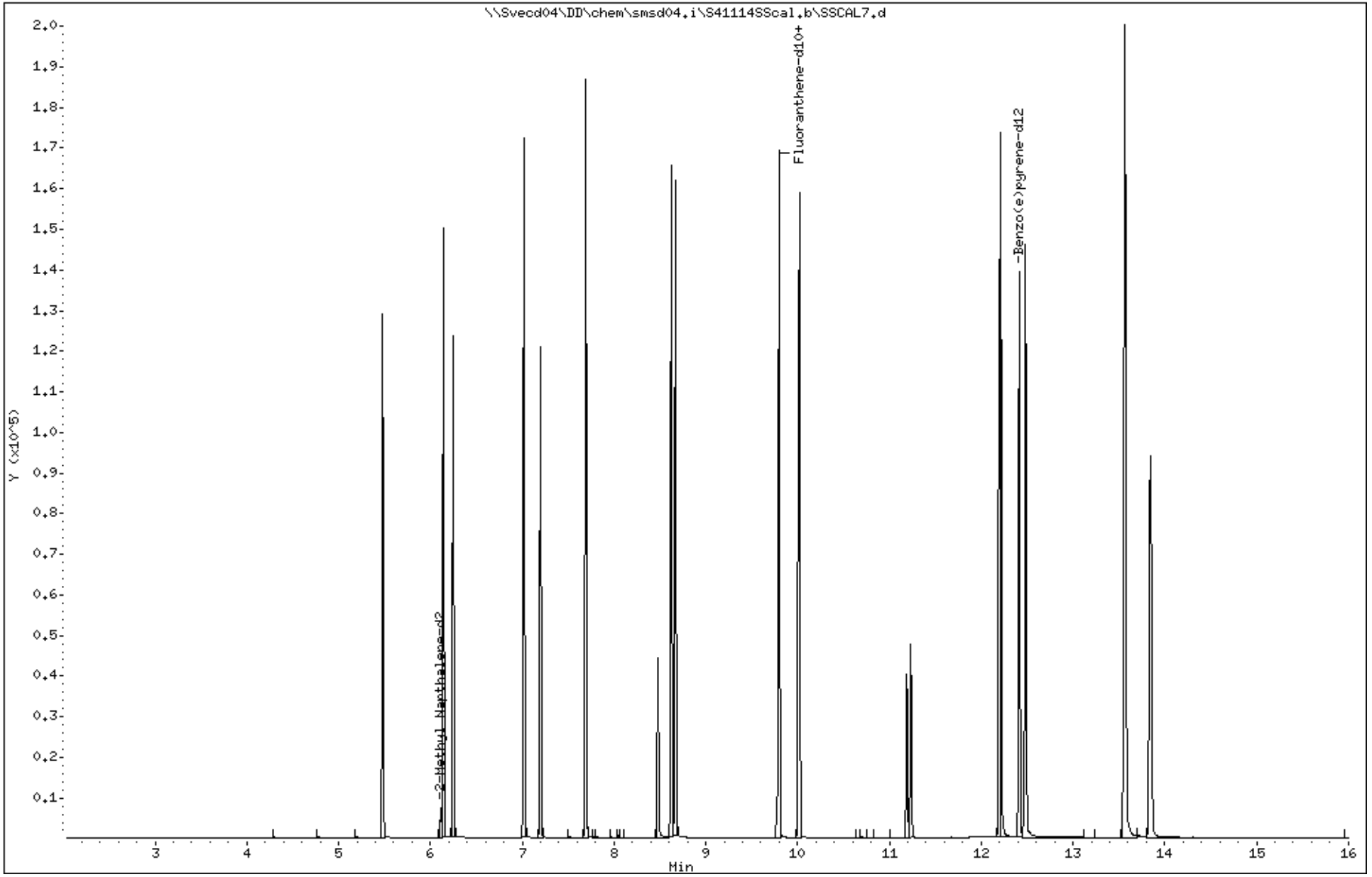
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL7.d
Date : 14-NOV-2012 19:53
Client ID: SSCAL7
Sample Info: 47782

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

406



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL6.d
Lab Smp Id: 47783 Client Smp ID: SSCAL6
Inj Date : 14-NOV-2012 20:14 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47783
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 20:14 Cal File: SSCAL6.d
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.481	5.478 (0.897)	128	53965	5.00000		5.2	80.00- 120.00	100.00
5.481	5.478 (0.897)	129	5919				0.00- 30.00	10.97
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.108	6.106 (1.000)	152	5138	0.80000			80.00- 120.00	100.00
6.108	6.106 (1.000)	122	2386				13.59- 73.59	46.44
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.140	6.138 (1.005)	142	36472	5.00000		5.0	80.00- 120.00	100.00
6.140	6.138 (1.005)	141	31248				66.11- 126.11	85.68
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.244	6.241 (1.022)	142	33180	5.00000		4.9	80.00- 120.00	100.00
6.244	6.241 (1.022)	141	29403				64.49- 124.49	88.62
	5 Acenaphthylene					CAS #: 208-96-8		
7.018	7.015 (1.149)	152	55310	5.00000		5.3	80.00- 120.00	100.00
7.018	7.015 (1.149)	151	10803				0.00- 41.18	19.53
	6 Acenaphthene					CAS #: 83-32-9		
7.195	7.193 (1.178)	153	35635	5.00000		5.0	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.195	7.193 (1.178)		152	17071			13.30- 73.30	47.91
7 Fluorene						CAS #: 86-73-7		
7.692	7.690 (1.259)		166	42221	5.00000	5.0	80.00- 120.00	100.00
7.692	7.690 (1.259)		165	39353			61.41- 121.41	93.21
8 Pentachlorophenol						CAS #: 87-86-5		
8.476	8.474 (0.867)		266	12265	10.0000	9.5	80.00- 120.00	100.00
8.476	8.474 (0.867)		264	7912			39.89- 99.89	64.51
9 Phenanthrene						CAS #: 85-01-8		
8.622	8.619 (0.882)		178	61242	5.00000	5.1	80.00- 120.00	100.00
8.622	8.619 (0.882)		176	11633			0.00- 41.18	19.00
10 Anthracene						CAS #: 120-12-7		
8.666	8.663 (0.886)		178	58628	5.00000	5.4	80.00- 120.00	100.00
8.666	8.663 (0.886)		176	10685			0.00- 39.42	18.23
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	8433	0.80000		80.00- 120.00	100.00
9.772	9.777 (1.000)		106	1037			0.00- 44.41	12.30
12 Fluoranthene						CAS #: 206-44-0		
9.796	9.793 (1.002)		202	65908	5.00000	4.9	80.00- 120.00	100.00
9.788	9.793 (1.001)		101	6830			0.00- 30.00	10.36
13 Pyrene						CAS #: 129-00-0		
10.010	10.015 (1.024)		202	68623	5.00000	5.0	80.00- 120.00	100.00
10.010	10.015 (1.024)		101	8420			0.00- 36.40	12.27
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.190	11.188 (1.144)		226	16499	5.00000	5.4	80.00- 120.00	100.00
11.190	11.188 (1.144)		200	2483			0.00- 30.00	15.05
15 Chrysene						CAS #: 218-01-9		
11.232	11.229 (1.148)		226	18320	5.00000	5.1	80.00- 120.00	100.00
11.232	11.229 (1.148)		200	2666			0.00- 30.00	14.55
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.193	12.190 (1.247)		252	61589	5.00000	4.8	80.00- 120.00	100.00
12.193	12.190 (1.247)		250	14564			0.00- 47.79	23.65
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.217	12.214 (1.249)		252	83767	5.00000	5.8	80.00- 120.00	100.00
12.209	12.214 (1.248)		250	17705			0.00- 56.48	21.14
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.415	12.405 (1.269)		264	60117	5.00000	5.2	80.00- 120.00	100.00
12.407	12.405 (1.269)		132	7597			0.00- 36.00	12.64
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.479	12.476 (1.276)		252	57471	5.00000	5.4	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
19 Benzo[a]pyrene (continued)								
12.479	12.476	(1.276)	250	13405			0.00- 40.19	23.32
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.560	13.550	(1.387)	276	65007	5.00000	5.3	80.00- 120.00	100.00
13.560	13.550	(1.387)	138	13653			0.00- 37.88	21.00
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.568	13.566	(1.387)	278	53200	5.00000	5.3	80.00- 120.00	100.00
13.560	13.566	(1.387)	138	13712			0.00- 38.19	25.77
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.839	13.836	(1.415)	276	55135	5.00000	5.1	80.00- 120.00	100.00
13.839	13.836	(1.415)	138	9888			0.00- 30.00	17.93

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL6.d
Date : 14-NOV-2012 20:14
Client ID: SSCAL6
Sample Info: 47783

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

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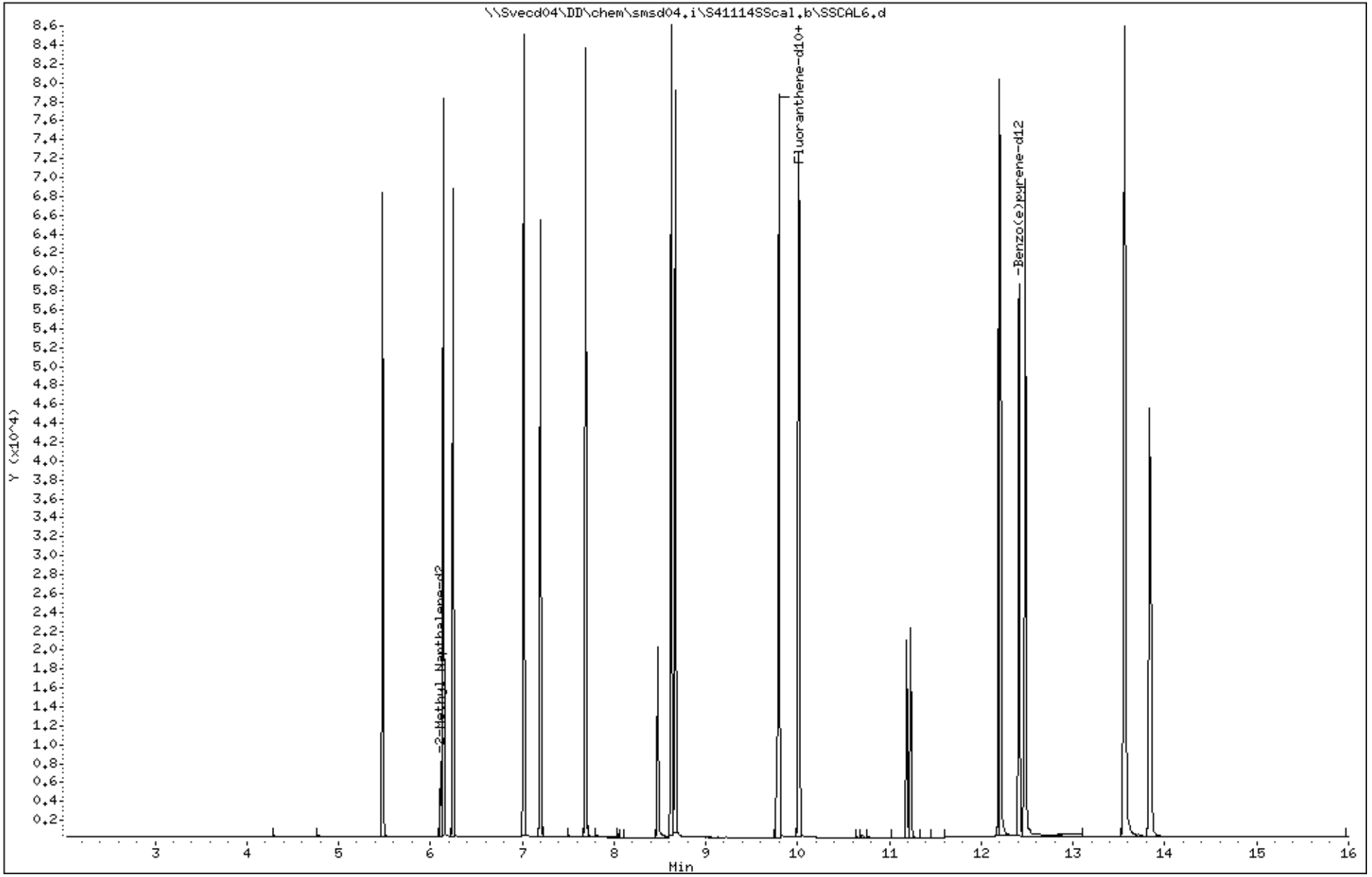

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Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL5.d
Lab Smp Id: 47784 Client Smp ID: SSCAL5
Inj Date : 14-NOV-2012 20:35 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47784
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 20:35 Cal File: SSCAL5.d
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.481	5.478 (0.897)		128	10172	1.00000	0.95	80.00- 120.00	100.00
5.481	5.478 (0.897)		129	1105			0.00- 30.00	10.86
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.108	6.106 (1.000)		152	5042	0.80000		80.00- 120.00	100.00
6.108	6.106 (1.000)		122	2295			13.59- 73.59	45.52
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.140	6.138 (1.005)		142	6920	1.00000	0.96	80.00- 120.00	100.00
6.140	6.138 (1.005)		141	5929			66.11- 126.11	85.68
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.243	6.241 (1.022)		142	6374	1.00000	0.97	80.00- 120.00	100.00
6.243	6.241 (1.022)		141	5701			64.49- 124.49	89.44
	5 Acenaphthylene					CAS #: 208-96-8		
7.018	7.015 (1.149)		152	10120	1.00000	0.98	80.00- 120.00	100.00
7.018	7.015 (1.149)		151	1979			0.00- 41.18	19.56
	6 Acenaphthene					CAS #: 83-32-9		
7.195	7.193 (1.178)		153	6946	1.00000	0.98	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.195	7.193 (1.178)		152	3270			13.30- 73.30	47.08
7 Fluorene						CAS #: 86-73-7		
7.685	7.690 (1.258)		166	8083	1.00000	0.97	80.00- 120.00	100.00
7.685	7.690 (1.258)		165	7500			61.41- 121.41	92.79
8 Pentachlorophenol						CAS #: 87-86-5		
8.476	8.474 (0.867)		266	7696	7.00000	6.3	80.00- 120.00	100.00
8.476	8.474 (0.867)		264	4838			39.89- 99.89	62.86
9 Phenanthrene						CAS #: 85-01-8		
8.622	8.619 (0.882)		178	11963	1.00000	0.96	80.00- 120.00	100.00
8.622	8.619 (0.882)		176	2279			0.00- 41.18	19.05
10 Anthracene						CAS #: 120-12-7		
8.665	8.663 (0.886)		178	10691	1.00000	0.95	80.00- 120.00	100.00
8.665	8.663 (0.886)		176	1974			0.00- 39.42	18.46
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	8726	0.80000		80.00- 120.00	100.00
9.772	9.777 (1.000)		106	1048			0.00- 44.41	12.01
12 Fluoranthene						CAS #: 206-44-0		
9.796	9.793 (1.002)		202	12940	1.00000	0.93	80.00- 120.00	100.00
9.788	9.793 (1.001)		101	1354			0.00- 30.00	10.46
13 Pyrene						CAS #: 129-00-0		
10.010	10.015 (1.024)		202	13458	1.00000	0.95	80.00- 120.00	100.00
10.010	10.015 (1.024)		101	1701			0.00- 36.40	12.64
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.190	11.188 (1.144)		226	3092	1.00000	0.98	80.00- 120.00	100.00
11.183	11.188 (1.144)		200	458			0.00- 30.00	14.81
15 Chrysene						CAS #: 218-01-9		
11.232	11.229 (1.148)		226	3475	1.00000	0.94	80.00- 120.00	100.00
11.225	11.229 (1.148)		200	522			0.00- 30.00	15.02
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.193	12.190 (1.247)		252	12670	1.00000	0.96	80.00- 120.00	100.00
12.193	12.190 (1.247)		250	3049			0.00- 47.79	24.06
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.209	12.214 (1.248)		252	14032	1.00000	0.94	80.00- 120.00	100.00(M)
12.209	12.214 (1.248)		250	2849			0.00- 56.48	20.30
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.407	12.405 (1.269)		264	11344	1.00000	0.94	80.00- 120.00	100.00
12.407	12.405 (1.269)		132	1485			0.00- 36.00	13.09
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.479	12.476 (1.276)		252	10616	1.00000	0.96	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.471	12.476	(1.275)	250	2477			0.00- 40.19	23.33
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.552	13.550	(1.386)	276	11747	1.00000	0.92	80.00- 120.00	100.00
13.552	13.550	(1.386)	138	2495			0.00- 37.88	21.24
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.560	13.566	(1.387)	278	9672	1.00000	0.93	80.00- 120.00	100.00
13.552	13.566	(1.386)	138	2549			0.00- 38.19	26.35
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.839	13.836	(1.415)	276	10165	1.00000	0.91	80.00- 120.00	100.00
13.839	13.836	(1.415)	138	1838			0.00- 30.00	18.08

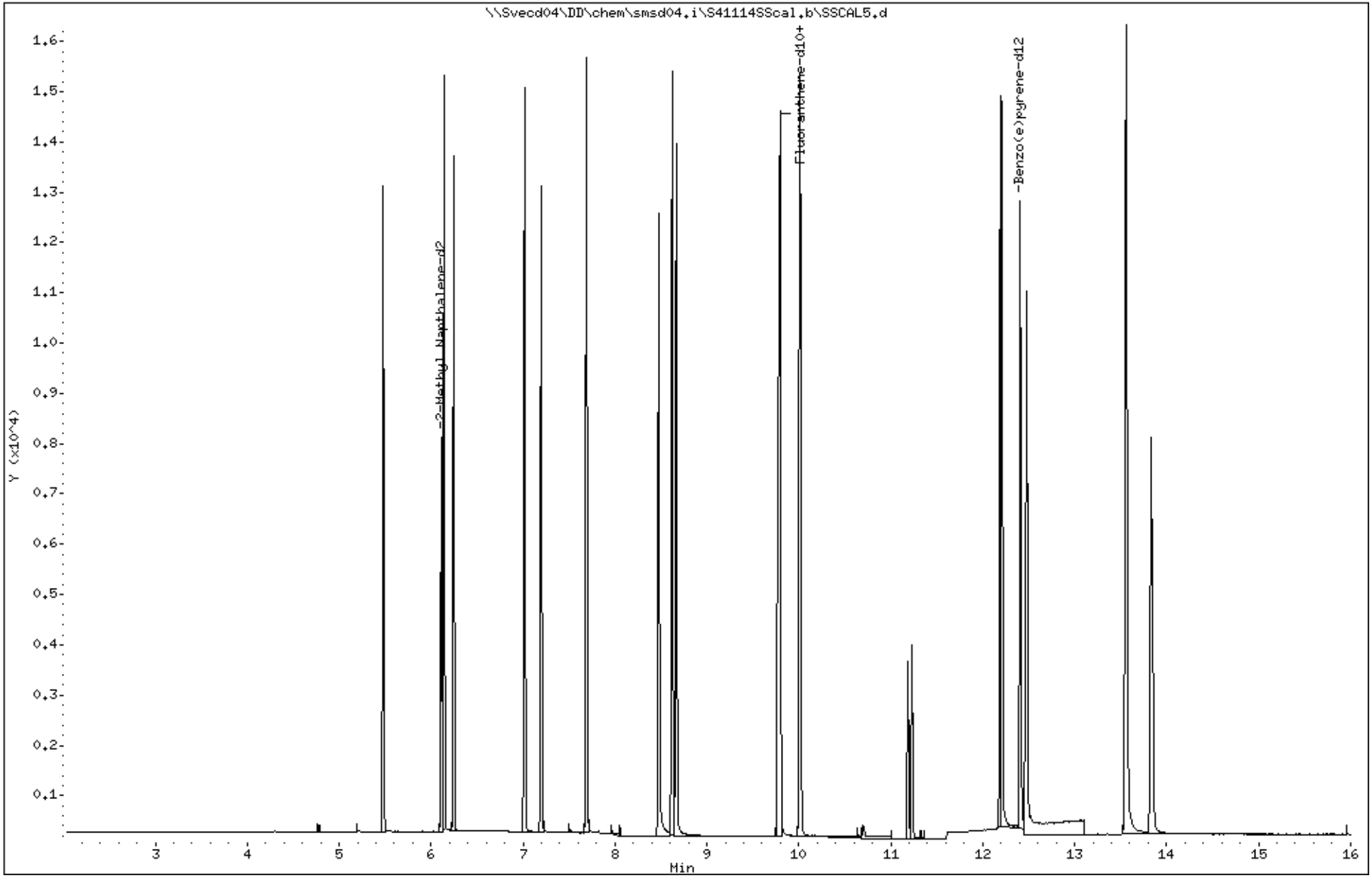
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL5.d
Date : 14-NOV-2012 20:35
Client ID: SSCAL5
Sample Info: 47784

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



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Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL4.d
Lab Smp Id: 47785 Client Smp ID: SSCAL4
Inj Date : 14-NOV-2012 20:56 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47785
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 20:56 Cal File: SSCAL4.d
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
1 Naphthalene							CAS #: 91-20-3	
5.481	5.478 (0.897)		128	5200	0.50000	0.45	80.00- 120.00	100.00
5.481	5.478 (0.897)		129	574			0.00- 30.00	11.04
* 2 2-Methyl Napthalene-d2							CAS #: 7927-45-2	
6.108	6.106 (1.000)		152	5143	0.80000		80.00- 120.00	100.00
6.108	6.106 (1.000)		122	2354			13.59- 73.59	45.77
3 2-Methylnaphthalene							CAS #: 91-57-6	
6.140	6.138 (1.005)		142	3537	0.50000	0.48	80.00- 120.00	100.00
6.140	6.138 (1.005)		141	3047			66.11- 126.11	86.15
4 1-Methylnaphthalene							CAS #: 90-12-0	
6.244	6.241 (1.022)		142	3235	0.50000	0.48	80.00- 120.00	100.00
6.244	6.241 (1.022)		141	2875			64.49- 124.49	88.87
5 Acenaphthylene							CAS #: 208-96-8	
7.018	7.015 (1.149)		152	5091	0.50000	0.48	80.00- 120.00	100.00
7.018	7.015 (1.149)		151	1009			0.00- 41.18	19.82
6 Acenaphthene							CAS #: 83-32-9	
7.195	7.193 (1.178)		153	3526	0.50000	0.49	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.195	7.193 (1.178)		152	1689			13.30- 73.30	47.90
7 Fluorene						CAS #: 86-73-7		
7.685	7.690 (1.258)		166	4209	0.50000	0.49	80.00- 120.00	100.00
7.685	7.690 (1.258)		165	3905			61.41- 121.41	92.78
8 Pentachlorophenol						CAS #: 87-86-5		
8.476	8.474 (0.867)		266	5491	5.00000	4.6	80.00- 120.00	100.00
8.476	8.474 (0.867)		264	3461			39.89- 99.89	63.03
9 Phenanthrene						CAS #: 85-01-8		
8.622	8.619 (0.882)		178	6320	0.50000	0.46	80.00- 120.00	100.00
8.622	8.619 (0.882)		176	1207			0.00- 41.18	19.10
10 Anthracene						CAS #: 120-12-7		
8.666	8.663 (0.886)		178	5495	0.50000	0.45	80.00- 120.00	100.00
8.666	8.663 (0.886)		176	999			0.00- 39.42	18.18
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	9469	0.80000		80.00- 120.00	100.00
9.772	9.777 (1.000)		106	1150			0.00- 44.41	12.14
12 Fluoranthene						CAS #: 206-44-0		
9.796	9.793 (1.002)		202	7115	0.50000	0.47	80.00- 120.00	100.00
9.788	9.793 (1.001)		101	728			0.00- 30.00	10.23
13 Pyrene						CAS #: 129-00-0		
10.010	10.015 (1.024)		202	7248	0.50000	0.47	80.00- 120.00	100.00
10.010	10.015 (1.024)		101	932			0.00- 36.40	12.86
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.190	11.188 (1.144)		226	1664	0.50000	0.49	80.00- 120.00	100.00
11.190	11.188 (1.144)		200	252			0.00- 30.00	15.14
15 Chrysene						CAS #: 218-01-9		
11.232	11.229 (1.148)		226	2005	0.50000	0.50	80.00- 120.00	100.00
11.225	11.229 (1.148)		200	284			0.00- 30.00	14.16
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.193	12.190 (1.247)		252	7093	0.50000	0.49	80.00- 120.00	100.00
12.193	12.190 (1.247)		250	1695			0.00- 47.79	23.90
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.209	12.214 (1.248)		252	7717	0.50000	0.48	80.00- 120.00	100.00(M)
12.209	12.214 (1.248)		250	1555			0.00- 56.48	20.15
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.407	12.405 (1.269)		264	6434	0.50000	0.49	80.00- 120.00	100.00
12.407	12.405 (1.269)		132	816			0.00- 36.00	12.68
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.479	12.476 (1.276)		252	5746	0.50000	0.48	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
				19 Benzo[a]pyrene (continued)				
12.471	12.476	(1.275)	250	1332			0.00- 40.19	23.18
				20 Indeno[1,2,3-cd]pyrene		CAS #: 193-39-5		
13.553	13.550	(1.386)	276	6439	0.50000	0.47	80.00- 120.00	100.00
13.553	13.550	(1.386)	138	1356			0.00- 37.88	21.06
				21 Dibenz[a,h]anthracene		CAS #: 53-70-3		
13.560	13.566	(1.387)	278	5270	0.50000	0.47	80.00- 120.00	100.00
13.553	13.566	(1.386)	138	1331			0.00- 38.19	25.26
				22 Benzo[g,h,i]perylene		CAS #: 191-24-2		
13.839	13.836	(1.415)	276	5412	0.50000	0.45	80.00- 120.00	100.00
13.831	13.836	(1.414)	138	983			0.00- 30.00	18.16

QC Flag Legend

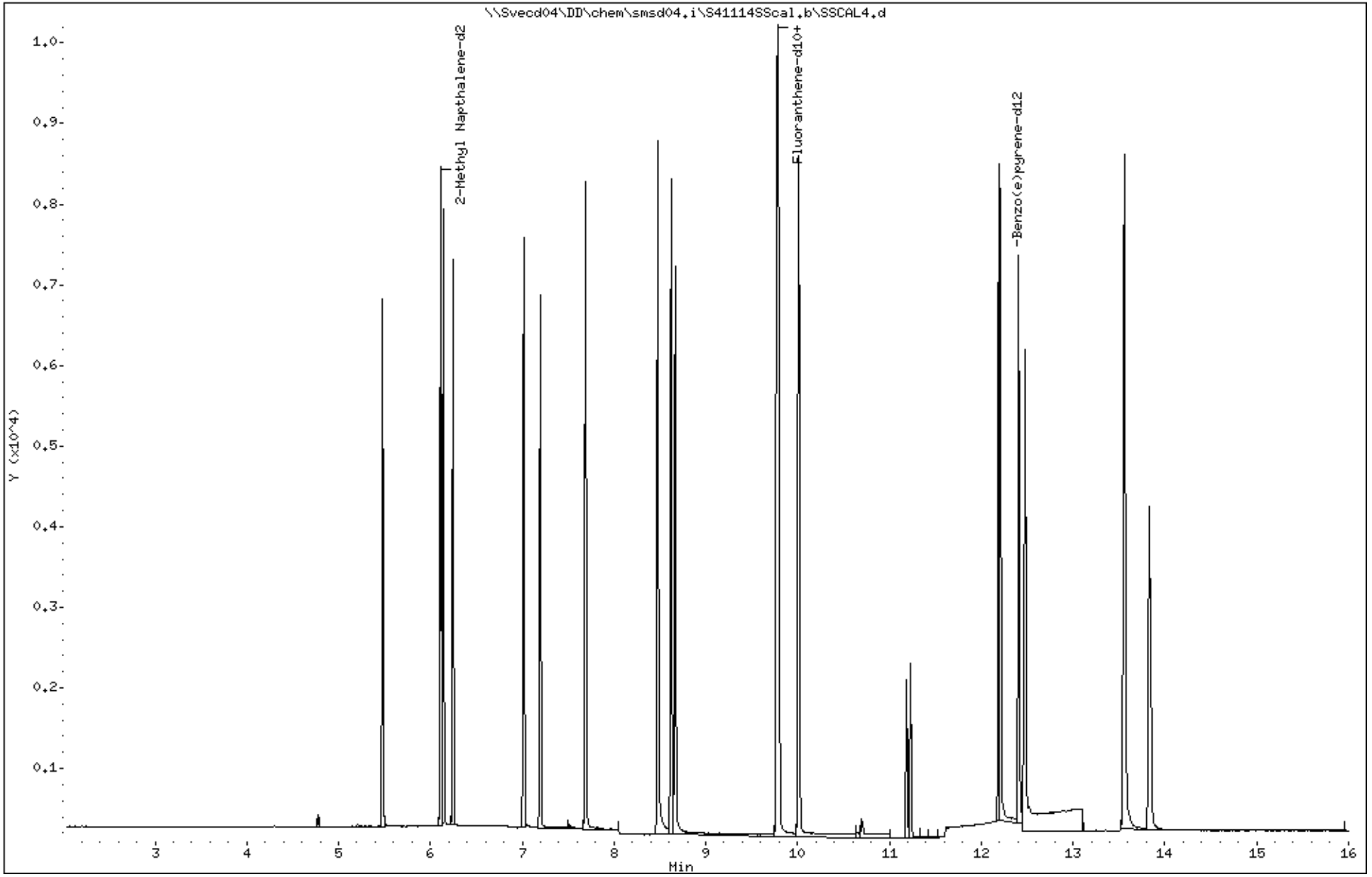
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL4.d
Date : 14-NOV-2012 20:56
Client ID: SSCAL4
Sample Info: 47785

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

418



3507616

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Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL3.d
Lab Smp Id: 47786 Client Smp ID: SSCAL3
Inj Date : 14-NOV-2012 21:17 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47786
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:17 Cal File: SSCAL3.d
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.480	5.478 (0.897)		128	1049	0.10000	0.095	80.00- 120.00	100.00
5.480	5.478 (0.897)		129	116			0.00- 30.00	11.06
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.108	6.106 (1.000)		152	5052	0.80000		80.00- 120.00	100.00
6.108	6.106 (1.000)		122	2353			13.59- 73.59	46.58
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.140	6.138 (1.005)		142	714	0.10000	0.099	80.00- 120.00	100.00
6.140	6.138 (1.005)		141	607			66.11- 126.11	85.01
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.243	6.241 (1.022)		142	657	0.10000	0.099	80.00- 120.00	100.00
6.243	6.241 (1.022)		141	578			64.49- 124.49	87.98
	5 Acenaphthylene					CAS #: 208-96-8		
7.018	7.015 (1.149)		152	983	0.10000	0.095	80.00- 120.00	100.00
7.018	7.015 (1.149)		151	194			0.00- 41.18	19.74
	6 Acenaphthene					CAS #: 83-32-9		
7.195	7.193 (1.178)		153	712	0.10000	0.10	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.195	7.193 (1.178)		152	328			13.30- 73.30	46.07
7 Fluorene						CAS #: 86-73-7		
7.692	7.690 (1.259)		166	838	0.10000	0.10	80.00- 120.00	100.00
7.685	7.690 (1.258)		165	769			61.41- 121.41	91.77
8 Pentachlorophenol						CAS #: 87-86-5		
8.476	8.474 (0.867)		266	1537	2.00000	2.3	80.00- 120.00	100.00
8.476	8.474 (0.867)		264	972			39.89- 99.89	63.24
9 Phenanthrene						CAS #: 85-01-8		
8.622	8.619 (0.882)		178	1252	0.10000	0.097	80.00- 120.00	100.00
8.622	8.619 (0.882)		176	238			0.00- 41.18	19.01
10 Anthracene						CAS #: 120-12-7		
8.665	8.663 (0.886)		178	1102	0.10000	0.095	80.00- 120.00	100.00
8.665	8.663 (0.886)		176	194			0.00- 39.42	17.60
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	8996	0.80000		80.00- 120.00	100.00
9.772	9.777 (1.000)		106	1065			0.00- 44.41	11.84
12 Fluoranthene						CAS #: 206-44-0		
9.795	9.793 (1.002)		202	1422	0.10000	0.099	80.00- 120.00	100.00
9.787	9.793 (1.001)		101	162			0.00- 30.00	11.39
13 Pyrene						CAS #: 129-00-0		
10.010	10.015 (1.024)		202	1409	0.10000	0.096	80.00- 120.00	100.00
10.010	10.015 (1.024)		101	248			0.00- 36.40	17.60
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.190	11.188 (1.144)		226	303	0.10000	0.094	80.00- 120.00	100.00
11.183	11.188 (1.144)		200	43			0.00- 30.00	14.19
15 Chrysene						CAS #: 218-01-9		
11.232	11.229 (1.148)		226	369	0.10000	0.096	80.00- 120.00	100.00
11.225	11.229 (1.148)		200	53			0.00- 30.00	14.36
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.192	12.190 (1.247)		252	1262	0.10000	0.092	80.00- 120.00	100.00
12.192	12.190 (1.247)		250	301			0.00- 47.79	23.85
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.208	12.214 (1.248)		252	1419	0.10000	0.092	80.00- 120.00	100.00(M)
12.208	12.214 (1.248)		250	293			0.00- 56.48	20.65
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.407	12.405 (1.269)		264	1202	0.10000	0.097	80.00- 120.00	100.00
12.407	12.405 (1.269)		132	150			0.00- 36.00	12.48
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.479	12.476 (1.276)		252	1043	0.10000	0.092	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.471	12.476	(1.275)	250	247			0.00- 40.19	23.68
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.552	13.550	(1.386)	276	1215	0.10000	0.093	80.00- 120.00	100.00
13.552	13.550	(1.386)	138	249			0.00- 37.88	20.49
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.568	13.566	(1.387)	278	994	0.10000	0.093	80.00- 120.00	100.00
13.552	13.566	(1.386)	138	256			0.00- 38.19	25.75
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.839	13.836	(1.415)	276	1031	0.10000	0.090	80.00- 120.00	100.00
13.831	13.836	(1.414)	138	189			0.00- 30.00	18.33

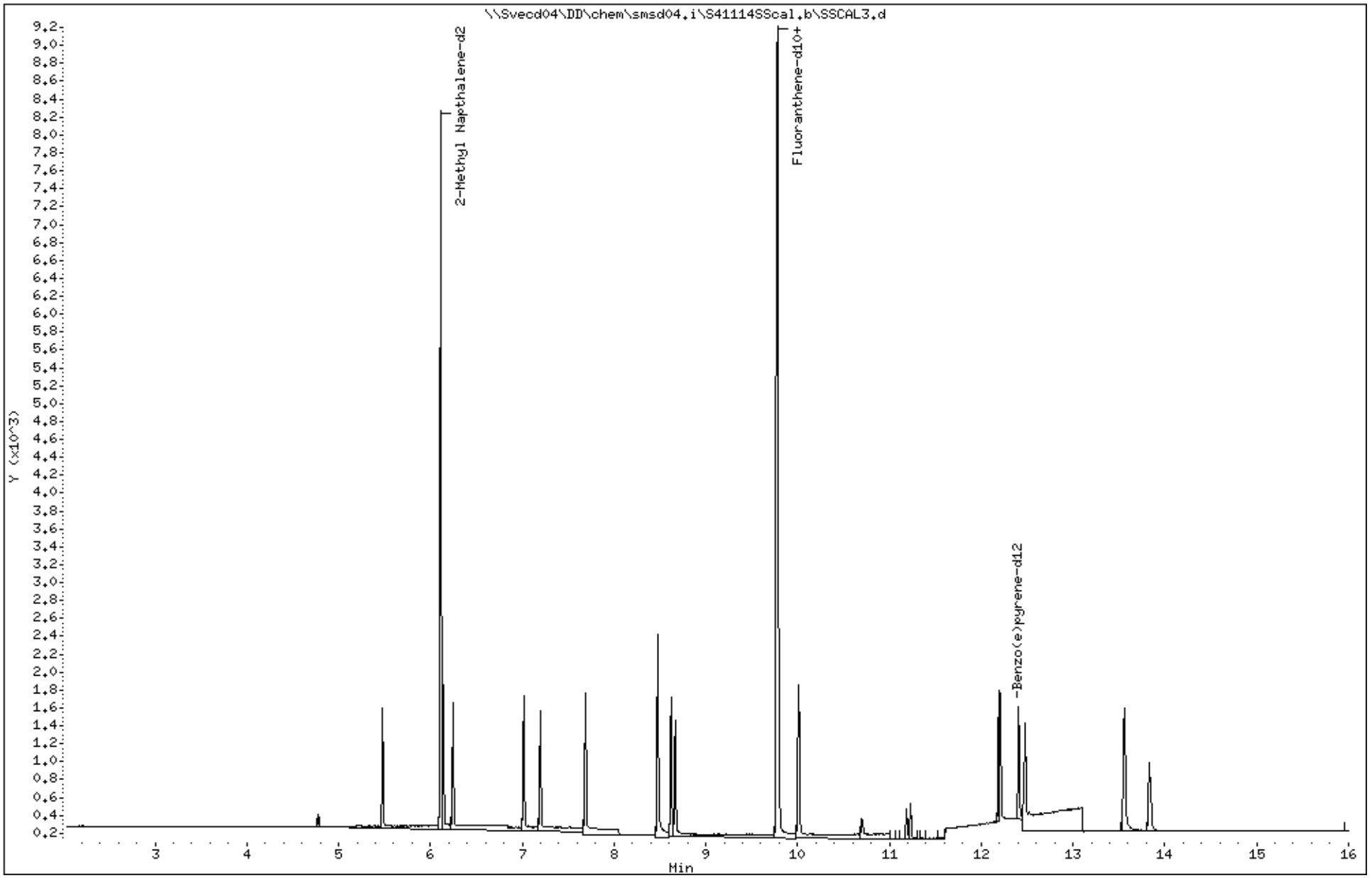
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL3.d
Date : 14-NOV-2012 21:17
Client ID: SSCAL3
Sample Info: 47786

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

422



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PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL2.d
Lab Smp Id: 47787 Client Smp ID: SSCAL2
Inj Date : 14-NOV-2012 21:38 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47787
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:38 Cal File: SSCAL2.d
Als bottle: 16 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.481	5.478 (0.897)		128	530	0.05000	0.054	80.00- 120.00	100.00
5.481	5.478 (0.897)		129	60			0.00- 30.00	11.32
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.108	6.106 (1.000)		152	4892	0.80000		80.00- 120.00	100.00
6.108	6.106 (1.000)		122	2278			13.59- 73.59	46.57
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.140	6.138 (1.005)		142	354	0.05000	0.051	80.00- 120.00	100.00
6.140	6.138 (1.005)		141	307			66.11- 126.11	86.72
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.243	6.241 (1.022)		142	322	0.05000	0.050	80.00- 120.00	100.00
6.243	6.241 (1.022)		141	288			64.49- 124.49	89.44
5 Acenaphthylene						CAS #: 208-96-8		
7.018	7.015 (1.149)		152	479	0.05000	0.048	80.00- 120.00	100.00
7.018	7.015 (1.149)		151	88			0.00- 41.18	18.37
6 Acenaphthene						CAS #: 83-32-9		
7.195	7.193 (1.178)		153	338	0.05000	0.049	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.195	7.193 (1.178)		152	164			13.30- 73.30	48.52
	7 Fluorene					CAS #: 86-73-7		
7.685	7.690 (1.258)		166	395	0.05000	0.049	80.00- 120.00	100.00
7.685	7.690 (1.258)		165	359			61.41- 121.41	90.89
	8 Pentachlorophenol					CAS #: 87-86-5		
8.476	8.474 (0.867)		266	656	1.00000	1.8	80.00- 120.00	100.00
8.476	8.474 (0.867)		264	414			39.89- 99.89	63.11
	9 Phenanthrene					CAS #: 85-01-8		
8.622	8.619 (0.882)		178	587	0.05000	0.051	80.00- 120.00	100.00
8.622	8.619 (0.882)		176	109			0.00- 41.18	18.57
	10 Anthracene					CAS #: 120-12-7		
8.665	8.663 (0.886)		178	514	0.05000	0.049	80.00- 120.00	100.00
8.665	8.663 (0.886)		176	85			0.00- 39.42	16.54
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	8075	0.80000		80.00- 120.00	100.00
9.772	9.777 (1.000)		106	987			0.00- 44.41	12.22
	12 Fluoranthene					CAS #: 206-44-0		
9.796	9.793 (1.002)		202	633	0.05000	0.049	80.00- 120.00	100.00
9.788	9.793 (1.001)		101	85			0.00- 30.00	13.43
	13 Pyrene					CAS #: 129-00-0		
10.010	10.015 (1.024)		202	667	0.05000	0.051	80.00- 120.00	100.00
10.010	10.015 (1.024)		101	154			0.00- 36.40	23.09
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.190	11.188 (1.144)		226	136	0.05000	0.047	80.00- 120.00	100.00
11.183	11.188 (1.144)		200	19			0.00- 30.00	13.97
	15 Chrysene					CAS #: 218-01-9		
11.232	11.229 (1.148)		226	171	0.05000	0.050	80.00- 120.00	100.00
11.225	11.229 (1.148)		200	25			0.00- 30.00	14.62
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.193	12.190 (1.247)		252	577	0.05000	0.047	80.00- 120.00	100.00
12.193	12.190 (1.247)		250	135			0.00- 47.79	23.40
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.208	12.214 (1.248)		252	701	0.05000	0.051	80.00- 120.00	100.00(M)
12.208	12.214 (1.248)		250	132			0.00- 56.48	18.83
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.407	12.405 (1.269)		264	576	0.05000	0.052	80.00- 120.00	100.00
12.407	12.405 (1.269)		132	74			0.00- 36.00	12.85
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.479	12.476 (1.276)		252	500	0.05000	0.049	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
19 Benzo[a]pyrene (continued)								
12.479	12.476	(1.276)	250	125			0.00- 40.19	25.00
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.560	13.550	(1.387)	276	598	0.05000	0.051	80.00- 120.00	100.00
13.560	13.550	(1.387)	138	138			0.00- 37.88	23.08
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.568	13.566	(1.387)	278	479	0.05000	0.050	80.00- 120.00	100.00
13.560	13.566	(1.387)	138	138			0.00- 38.19	28.81
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.839	13.836	(1.415)	276	556	0.05000	0.054	80.00- 120.00	100.00
13.839	13.836	(1.415)	138	91			0.00- 30.00	16.37

QC Flag Legend

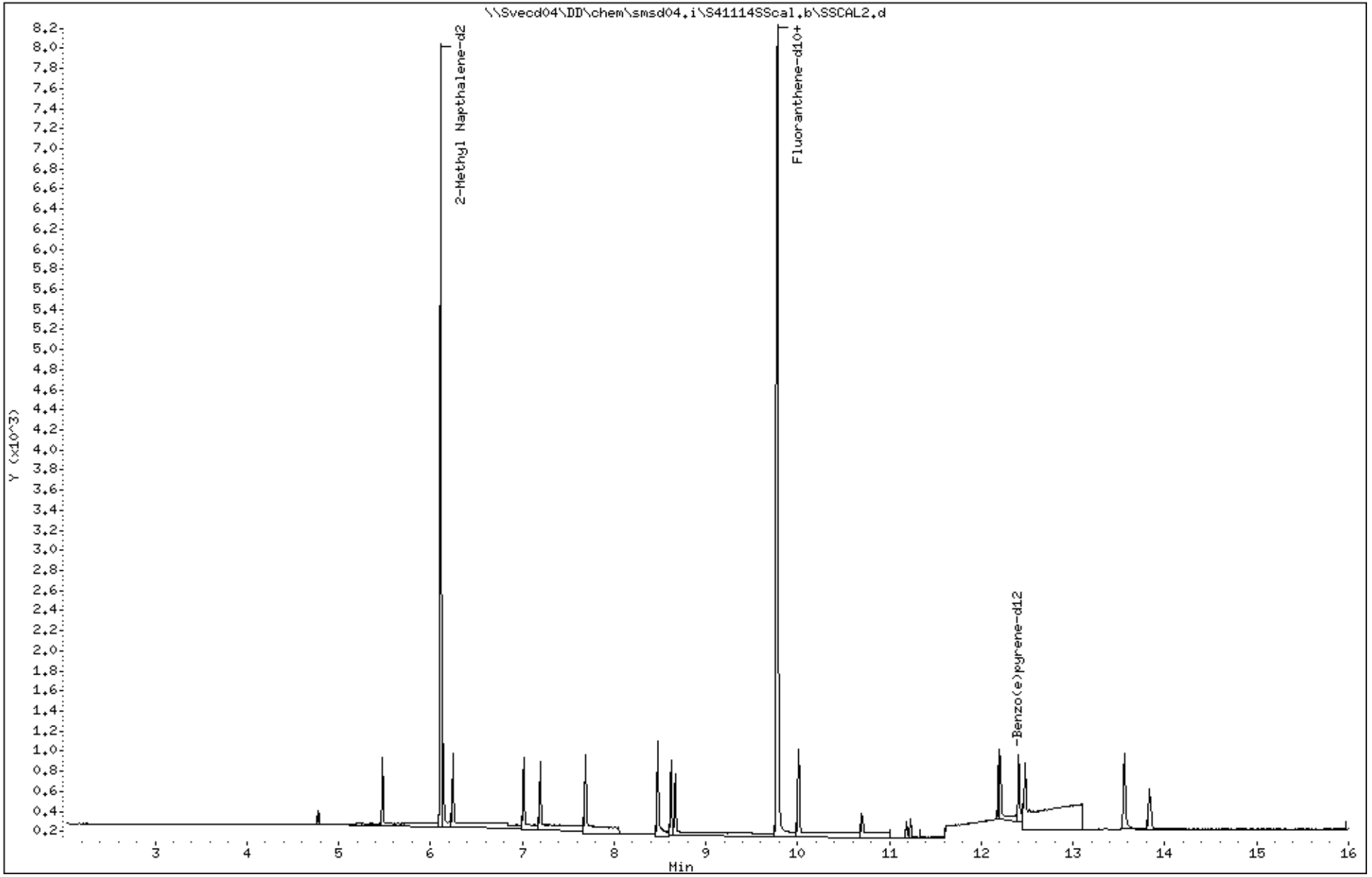
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL2.d
Date : 14-NOV-2012 21:38
Client ID: SSCAL2
Sample Info: 47787

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

426



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Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL1.d
Lab Smp Id: 47788 Client Smp ID: SSCAL1
Inj Date : 14-NOV-2012 21:58 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47788
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 17 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
1 Naphthalene						CAS #: 91-20-3		
5.480	5.478 (0.897)		128	212	0.02000	0.021	80.00- 120.00	100.00
5.480	5.478 (0.897)		129	27			0.00- 30.00	12.74
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.108	6.106 (1.000)		152	4765	0.80000		80.00- 120.00	100.00
6.108	6.106 (1.000)		122	2205			13.59- 73.59	46.27
3 2-Methylnaphthalene						CAS #: 91-57-6		
6.140	6.138 (1.005)		142	143	0.02000	0.021	80.00- 120.00	100.00
6.140	6.138 (1.005)		141	123			66.11- 126.11	86.01
4 1-Methylnaphthalene						CAS #: 90-12-0		
6.243	6.241 (1.022)		142	135	0.02000	0.022	80.00- 120.00	100.00
6.243	6.241 (1.022)		141	118			64.49- 124.49	87.41
5 Acenaphthylene						CAS #: 208-96-8		
7.018	7.015 (1.149)		152	191	0.02000	0.020	80.00- 120.00	100.00
7.018	7.015 (1.149)		151	37			0.00- 41.18	19.37
6 Acenaphthene						CAS #: 83-32-9		
7.195	7.193 (1.178)		153	137	0.02000	0.020	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.195	7.193 (1.178)		152	71			13.30- 73.30	51.82
	7 Fluorene					CAS #: 86-73-7		
7.685	7.690 (1.258)		166	164	0.02000	0.021	80.00- 120.00	100.00
7.685	7.690 (1.258)		165	158			61.41- 121.41	96.34
	8 Pentachlorophenol					CAS #: 87-86-5		
8.476	8.474 (0.867)		266	419	0.70000	1.7	80.00- 120.00	100.00
8.476	8.474 (0.867)		264	259			39.89- 99.89	61.81
	9 Phenanthrene					CAS #: 85-01-8		
8.622	8.619 (0.882)		178	256	0.02000	0.022	80.00- 120.00	100.00
8.614	8.619 (0.881)		176	47			0.00- 41.18	18.36
	10 Anthracene					CAS #: 120-12-7		
8.665	8.663 (0.886)		178	214	0.02000	0.020	80.00- 120.00	100.00
8.665	8.663 (0.886)		176	36			0.00- 39.42	16.82
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.780	9.777 (1.000)		212	8141	0.80000		80.00- 120.00	100.00
9.772	9.777 (1.000)		106	980			0.00- 44.41	12.04
	12 Fluoranthene					CAS #: 206-44-0		
9.795	9.793 (1.002)		202	296	0.02000	0.023	80.00- 120.00	100.00
9.788	9.793 (1.001)		101	47			0.00- 30.00	15.88
	13 Pyrene					CAS #: 129-00-0		
10.010	10.015 (1.024)		202	297	0.02000	0.022	80.00- 120.00	100.00
10.010	10.015 (1.024)		101	119			0.00- 36.40	40.07
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.190	11.188 (1.144)		226	55	0.02000	0.019	80.00- 120.00	100.00
11.225	11.188 (1.148)		200	10			0.00- 30.00	18.18
	15 Chrysene					CAS #: 218-01-9		
11.232	11.229 (1.148)		226	71	0.02000	0.020	80.00- 120.00	100.00
11.225	11.229 (1.148)		200	10			0.00- 30.00	14.08
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.193	12.190 (1.247)		252	245	0.02000	0.020	80.00- 120.00	100.00
12.193	12.190 (1.247)		250	67			0.00- 47.79	27.35
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.208	12.214 (1.248)		252	286	0.02000	0.020	80.00- 120.00	100.00(M)
12.208	12.214 (1.248)		250	62			0.00- 56.48	21.68
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.407	12.405 (1.269)		264	221	0.02000	0.020	80.00- 120.00	100.00
12.407	12.405 (1.269)		132	22			0.00- 36.00	9.95
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.479	12.476 (1.276)		252	198	0.02000	0.019	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
				19 Benzo[a]pyrene (continued)				
12.471	12.476	(1.275)	250	58			0.00- 40.19	29.29
				20 Indeno[1,2,3-cd]pyrene		CAS #: 193-39-5		
13.552	13.550	(1.386)	276	238	0.02000	0.020	80.00- 120.00	100.00
13.552	13.550	(1.386)	138	62			0.00- 37.88	26.05
				21 Dibenz[a,h]anthracene		CAS #: 53-70-3		
13.560	13.566	(1.387)	278	197	0.02000	0.020	80.00- 120.00	100.00
13.552	13.566	(1.386)	138	50			0.00- 38.19	25.38
				22 Benzo[g,h,i]perylene		CAS #: 191-24-2		
13.839	13.836	(1.415)	276	227	0.02000	0.022	80.00- 120.00	100.00
13.831	13.836	(1.414)	138	47			0.00- 30.00	20.70

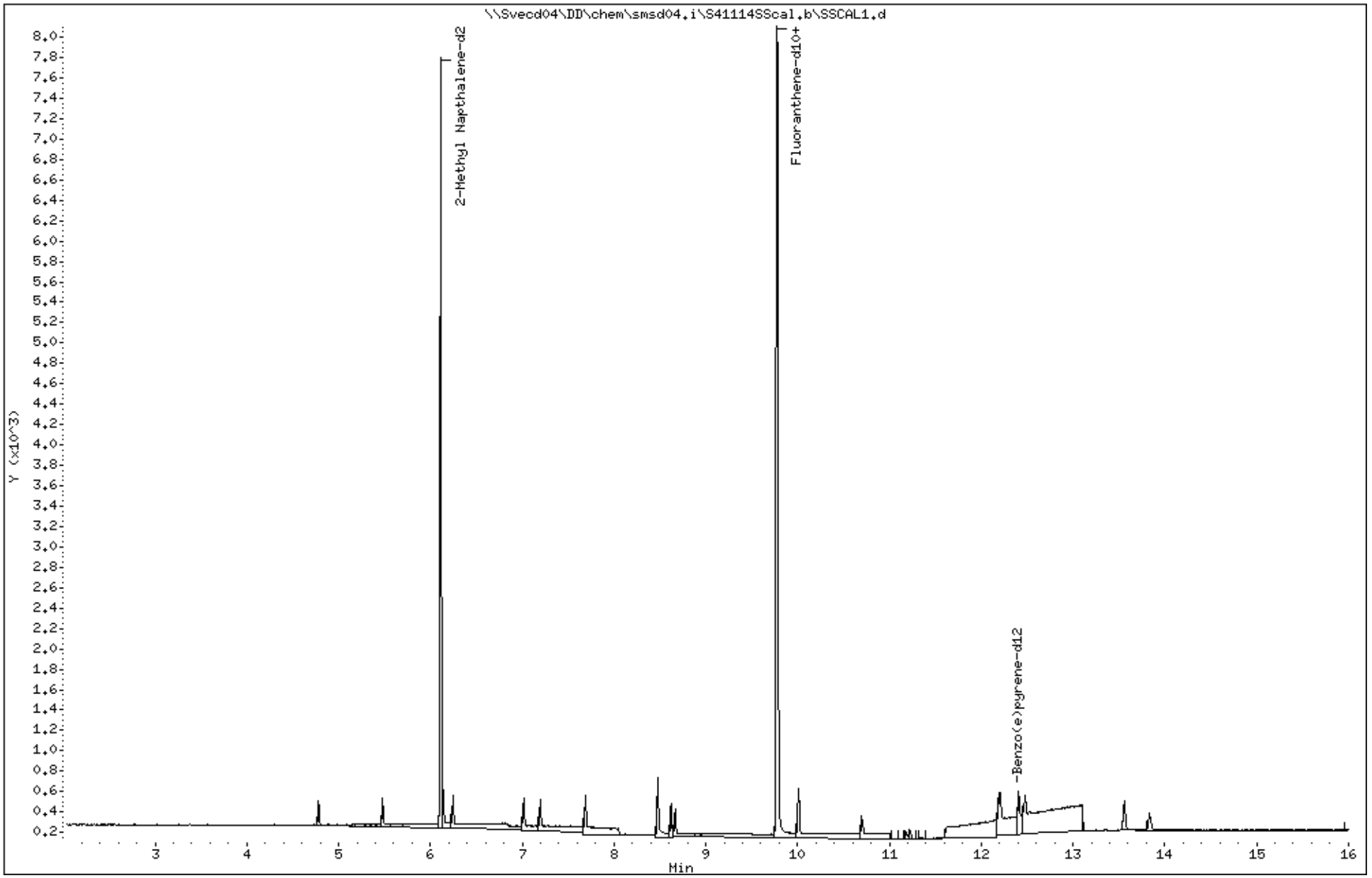
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSCAL1.d
Date : 14-NOV-2012 21:58
Client ID: SSCAL1
Sample Info: 47788

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



430

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PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSSEC.d
Lab Smp Id: 47789 Client Smp ID: SSSEC
Inj Date : 14-NOV-2012 22:19 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47789
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SS8270.m
Meth Date : 27-Nov-2012 16:40 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 18 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
1 Naphthalene							CAS #: 91-20-3	
5.478	5.478 (0.560)		128	4185	0.50000	0.49	80.00- 120.00	100.00(M)
5.481	5.478 (0.561)		129	0	0.00	0.00	0.00- 30.00	0.00
* 2 2-Methyl Napthalene-d2							CAS #: 7927-45-2	
6.106	6.106 (1.000)		152	4113	0.80000		80.00- 120.00	100.00
6.106	6.106 (1.000)		122	1793			13.59- 73.59	43.59
3 2-Methylnaphthalene							CAS #: 91-57-6	
6.138	6.138 (1.005)		142	2312	0.50000	0.39	80.00- 120.00	100.00
6.138	6.138 (1.005)		141	2222			66.11- 126.11	96.11
4 1-Methylnaphthalene							CAS #: 90-12-0	
6.241	6.241 (1.022)		142	2396	0.50000	0.44	80.00- 120.00	100.00
6.241	6.241 (1.022)		141	2264			64.49- 124.49	94.49
5 Acenaphthylene							CAS #: 208-96-8	
7.015	7.015 (1.149)		152	3944	0.50000	0.47	80.00- 120.00	100.00(M)
7.015	7.015 (1.149)		151	441			0.00- 41.18	11.18
6 Acenaphthene							CAS #: 83-32-9	
7.193	7.193 (1.178)		153	2628	0.50000	0.46	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
7.200	7.193 (1.179)		152	1138			13.30- 73.30	43.30
7 Fluorene						CAS #: 86-73-7		
7.690	7.690 (1.259)		166	3364	0.50000	0.49	80.00- 120.00	100.00
7.690	7.690 (1.259)		165	3075			61.41- 121.41	91.41
8 Pentachlorophenol						CAS #: 87-86-5		
8.474	8.474 (0.867)		266	3447	5.00000	4.1	80.00- 120.00	100.00
8.474	8.474 (0.867)		264	2409			39.89- 99.89	69.89
9 Phenanthrene						CAS #: 85-01-8		
8.619	8.619 (0.882)		178	5615	0.50000	0.56	80.00- 120.00	100.00(M)
8.619	8.619 (0.882)		176	628			0.00- 41.18	11.18
10 Anthracene						CAS #: 120-12-7		
8.663	8.663 (0.886)		178	4012	0.50000	0.44	80.00- 120.00	100.00(M)
8.663	8.663 (0.886)		176	378			0.00- 39.42	9.42
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.777	9.777 (1.000)		212	7011	0.80000		80.00- 120.00	100.00
9.777	9.777 (1.000)		106	1010			0.00- 44.41	14.41
12 Fluoranthene						CAS #: 206-44-0		
9.793	9.793 (1.002)		202	5494	0.50000	0.49	80.00- 120.00	100.00(M)
9.796	9.793 (1.002)		101	0	0.00	0.00	0.00- 30.00	0.00
13 Pyrene						CAS #: 129-00-0		
10.015	10.015 (1.024)		202	5033	0.50000	0.44	80.00- 120.00	100.00(M)
10.007	10.015 (1.024)		101	322			0.00- 36.40	6.40
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.188	11.188 (1.144)		226	1089	0.50000	0.43	80.00- 120.00	100.00(M)
11.191	11.188 (1.145)		200	0	0.00	0.00	0.00- 30.00	0.00
15 Chrysene						CAS #: 218-01-9		
11.229	11.229 (1.149)		226	1411	0.50000	0.47	80.00- 120.00	100.00(M)
11.232	11.229 (1.149)		200	0	0.00	0.00	0.00- 30.00	0.00
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.190	12.190 (1.247)		252	4824	0.50000	0.45	80.00- 120.00	100.00
12.190	12.190 (1.247)		250	858			0.00- 47.79	17.79
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.214	12.214 (1.249)		252	5339	0.50000	0.44	80.00- 120.00	100.00(M)
12.206	12.214 (1.248)		250	1414			0.00- 56.48	26.48
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.405	12.405 (1.269)		264	5282	0.50000	0.54	80.00- 120.00	100.00(M)
12.405	12.405 (1.269)		132	317			0.00- 36.00	6.00
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.476	12.476 (1.276)		252	3914	0.50000	0.44	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	19 Benzo[a]pyrene (continued)							
12.476	12.476	(1.276)	250	399			0.00- 40.19	10.19
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.550	13.550	(1.386)	276	4292	0.50000	0.42	80.00- 120.00	100.00(M)
13.566	13.550	(1.387)	138	338			0.00- 37.88	7.88
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.566	13.566	(1.387)	278	4128	0.50000	0.49	80.00- 120.00	100.00(M)
13.566	13.566	(1.387)	138	338			0.00- 38.19	8.19
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
13.836	13.836	(1.415)	276	3966	0.50000	0.44	80.00- 120.00	100.00(M)
13.839	13.836	(1.415)	138	0	0.00	0.00	0.00- 30.00	0.00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\SSSEC.d
Date : 14-NOV-2012 22:19
Client ID: SSSEC
Sample Info: 47789

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5

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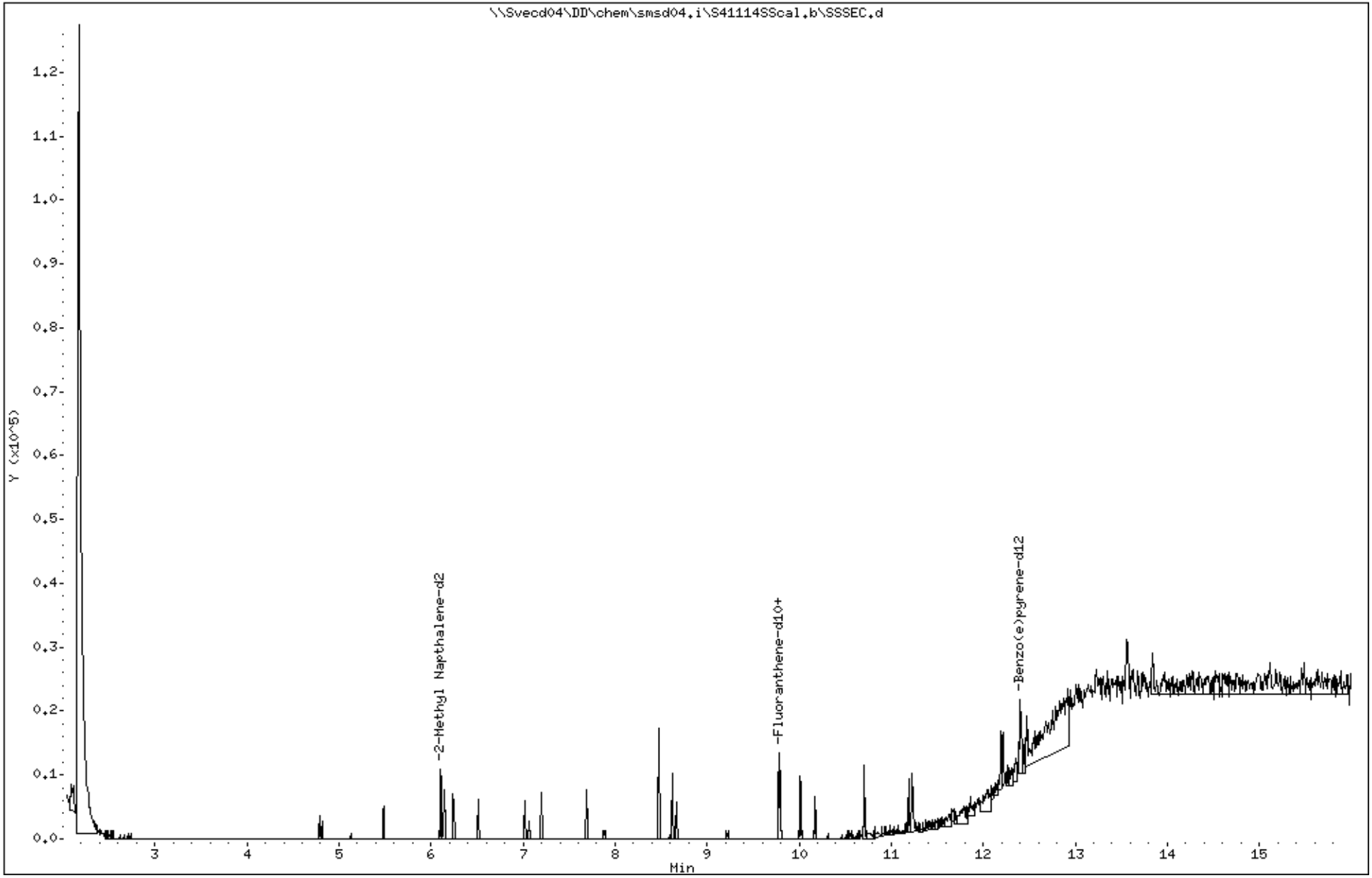


Data File: DFTPP2.d
Report Date: 30-Nov-2012 09:53

PEL Laboratories, Inc.

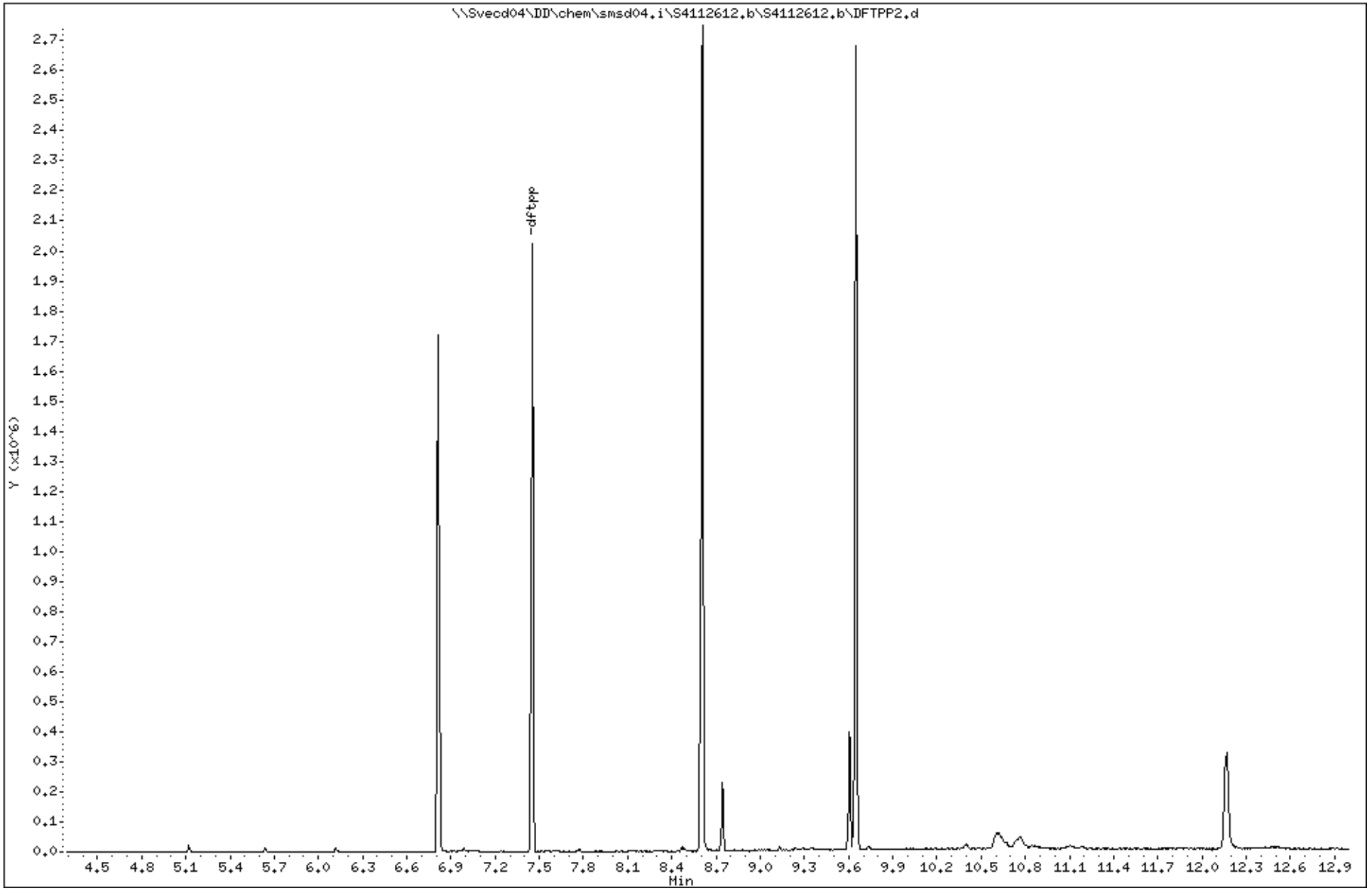
Data file : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\DFTPP2.d
Lab Smp Id: 47137 Client Smp ID: DFTPP2
Inj Date : 26-NOV-2012 16:26 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47137
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S4112612.b\DoDTUN.m
Meth Date : 06-Aug-2012 11:47 Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: WETCHEMDX500

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.453	7.410	(0.000)	198	176896			0.00- 100.00	100.00
7.453	7.410	(0.000)	51	74096			10.00- 80.00	41.89
7.453	7.410	(0.000)	68	0	0.0	0.0	0.00- 2.00	0.00
7.453	7.410	(0.000)	69	94128			0.00- 0.00	53.21
7.453	7.410	(0.000)	70	519			0.00- 2.00	0.55
7.453	7.410	(0.000)	127	83896			10.00- 80.00	47.43
7.453	7.410	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.453	7.410	(0.000)	199	12302			5.00- 9.00	6.95
7.453	7.410	(0.000)	275	42936			10.00- 60.00	24.27
7.453	7.410	(0.000)	365	6137			1.00- 0.00	3.47
7.453	7.410	(0.000)	441	24272			0.01- 24.00	17.16
7.453	7.410	(0.000)	442	141440			50.00- 0.00	79.96
7.453	7.410	(0.000)	443	27768			15.00- 24.00	19.63

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\DFTPP2.d
Date : 26-NOV-2012 16:26
Client ID: DFTPP2
Instrument: smsd04.i
Sample Info: 47137
Volume Injected (uL): 1.0
Operator: MJ
Column phase:
Column diameter: 2.00



436

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Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\DFTPP2.d

Date : 26-NOV-2012 16:26

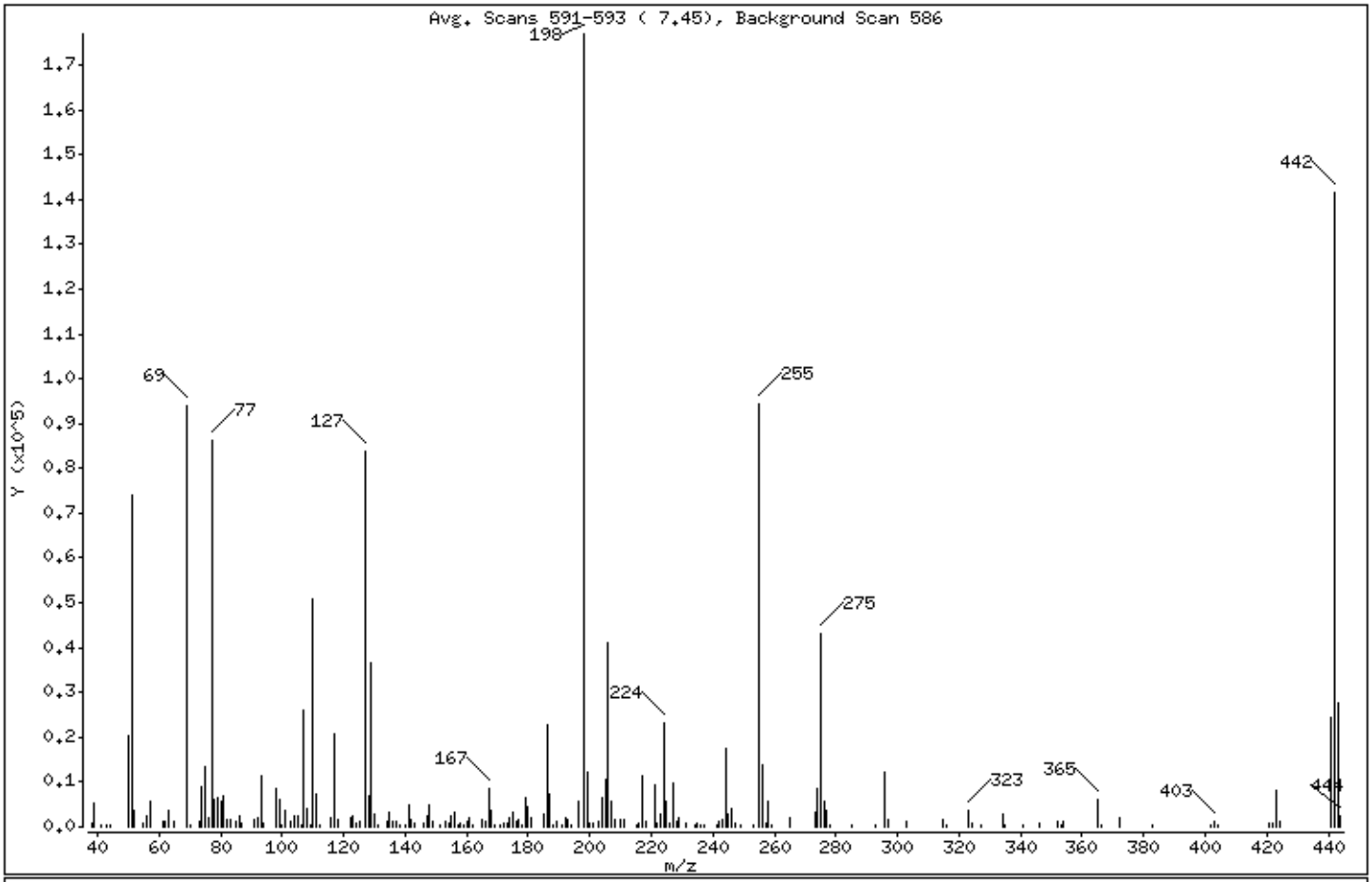
Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.89
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.21
70	Less than 2.00% of mass 69	0.29 (0.55)
127	10.00 - 80.00% of mass 198	47.43
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.95
275	10.00 - 60.00% of mass 198	24.27
365	Greater than 1.00% of mass 198	3.47
441	0.01 - 24.00% of mass 442	13.72 (17.16)
442	Greater than 50.00% of mass 198	79.96
443	15.00 - 24.00% of mass 442	15.70 (19.63)

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\DFTPP2.d

Date : 26-NOV-2012 16:26

Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.d
Spectrum: Avg. Scans 591-593 (7.45), Background Scan 586
Location of Maximum: 198.00
Number of points: 194

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	851	116.00	1872	179.00	6674	247.00	775
39.00	5425	117.00	20872	180.00	4413	249.00	272
41.00	504	118.00	1508	181.00	1880	253.00	567
43.00	225	122.00	1921	185.00	3046	255.00	94448
44.00	307	123.00	2572	186.00	22688	256.00	13647
50.00	20256	124.00	993	187.00	7234	257.00	813
51.00	74096	125.00	1295	188.00	319	258.00	5598
52.00	3712	127.00	83896	189.00	1406	259.00	590
55.00	630	128.00	6876	191.00	591	265.00	2229
56.00	2523	129.00	36432	192.00	2206	273.00	3099
57.00	5725	130.00	2929	193.00	1815	274.00	8716
61.00	1079	131.00	223	194.00	235	275.00	42936
62.00	1143	134.00	1209	196.00	5677	276.00	5666
63.00	3483	135.00	3155	198.00	176896	277.00	3641
65.00	1309	136.00	1024	199.00	12302	278.00	228
69.00	94128	137.00	1367	200.00	944	285.00	335
70.00	519	138.00	262	201.00	979	293.00	463
73.00	1169	140.00	282	203.00	1396	296.00	12286
74.00	8752	141.00	4727	204.00	6377	297.00	1827
75.00	13573	142.00	1464	205.00	10601	303.00	1350
76.00	1991	143.00	756	206.00	41248	315.00	1466
77.00	86072	146.00	683	207.00	5887	316.00	385
78.00	6047	147.00	2294	208.00	1625	323.00	3740
79.00	6642	148.00	4940	210.00	1473	324.00	699
80.00	5504	149.00	1057	211.00	1457	327.00	330
81.00	6920	151.00	249	215.00	283	334.00	2686
82.00	1622	153.00	1386	216.00	948	335.00	604
83.00	1536	154.00	920	217.00	11233	341.00	490
85.00	1155	155.00	2371	218.00	1342	346.00	940
86.00	2257	156.00	3418	221.00	9395	352.00	1155
87.00	935	157.00	557	222.00	933	353.00	496
91.00	1722	158.00	641	223.00	2849	354.00	1279
92.00	1874	159.00	256	224.00	23248	365.00	6137
93.00	11292	160.00	1298	225.00	5740	366.00	605
94.00	686	161.00	1934	226.00	931	372.00	1869

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\DFTPP2.d

Date : 26-NOV-2012 16:26

Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.d
Spectrum: Avg. Scans 591-593 (7.45), Background Scan 586
Location of Maximum: 198.00
Number of points: 194

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	8603	162.00	519	227.00	9634	383.00	301
99.00	6015	165.00	1473	228.00	1248	402.00	522
100.00	225	166.00	1410	229.00	1852	403.00	1233
101.00	3577	167.00	8347	231.00	617	404.00	226
103.00	1229	168.00	3467	234.00	504	421.00	764
104.00	2504	169.00	537	235.00	652	422.00	952
105.00	2269	171.00	256	236.00	485	423.00	8136
106.00	332	172.00	819	237.00	536	424.00	1410
107.00	26096	173.00	976	241.00	509	441.00	24272
108.00	4131	174.00	1959	242.00	1262	442.00	141440
109.00	483	175.00	3076	243.00	1433	443.00	27768
110.00	51016	176.00	1133	244.00	17304	444.00	2383
111.00	7467	177.00	1687	245.00	2652		
112.00	545	178.00	562	246.00	4041		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 16:41

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S4112612.b/DFTPP2.d
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/28/2012 10:30

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S4112612.b/DFTPP2.d
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/28/2012 10:34

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S4112612.b/DFTPP2.d
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/28/2012 12:31

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S4112612.b/DFTPP2.d
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:53

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S4112612.b/S4112612.b/DFTPP2.d

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SSCAL4.d
Lab Smp Id: 47785 Client Smp ID: SSCAL4
Inj Date : 26-NOV-2012 16:44 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47785
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SS8270.m
Meth Date : 27-Nov-2012 17:10 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: WETCHEMDX500

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.464	5.465 (0.560)	128	4381	0.50000		0.44	80.00- 120.00	100.00
	5.464	5.465 (0.560)	129	481				0.00- 40.98	10.99
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.092	6.092 (1.000)	152	4274	0.80000			80.00- 120.00	100.00
	6.092	6.092 (1.000)	122	1928				15.11- 75.11	45.13
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.124	6.125 (1.005)	142	2921	0.50000		0.48	80.00- 120.00	100.00
	6.124	6.125 (1.005)	141	2523				56.37- 116.37	86.37
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.227	6.227 (1.022)	142	2693	0.50000		0.48	80.00- 120.00	100.00
	6.227	6.227 (1.022)	141	2386				58.60- 118.60	88.62
	5 Acenaphthylene						CAS #: 208-96-8		
	7.003	7.003 (1.150)	152	4421	0.50000		0.51	80.00- 120.00	100.00
	7.003	7.003 (1.150)	151	861				0.00- 49.48	19.48

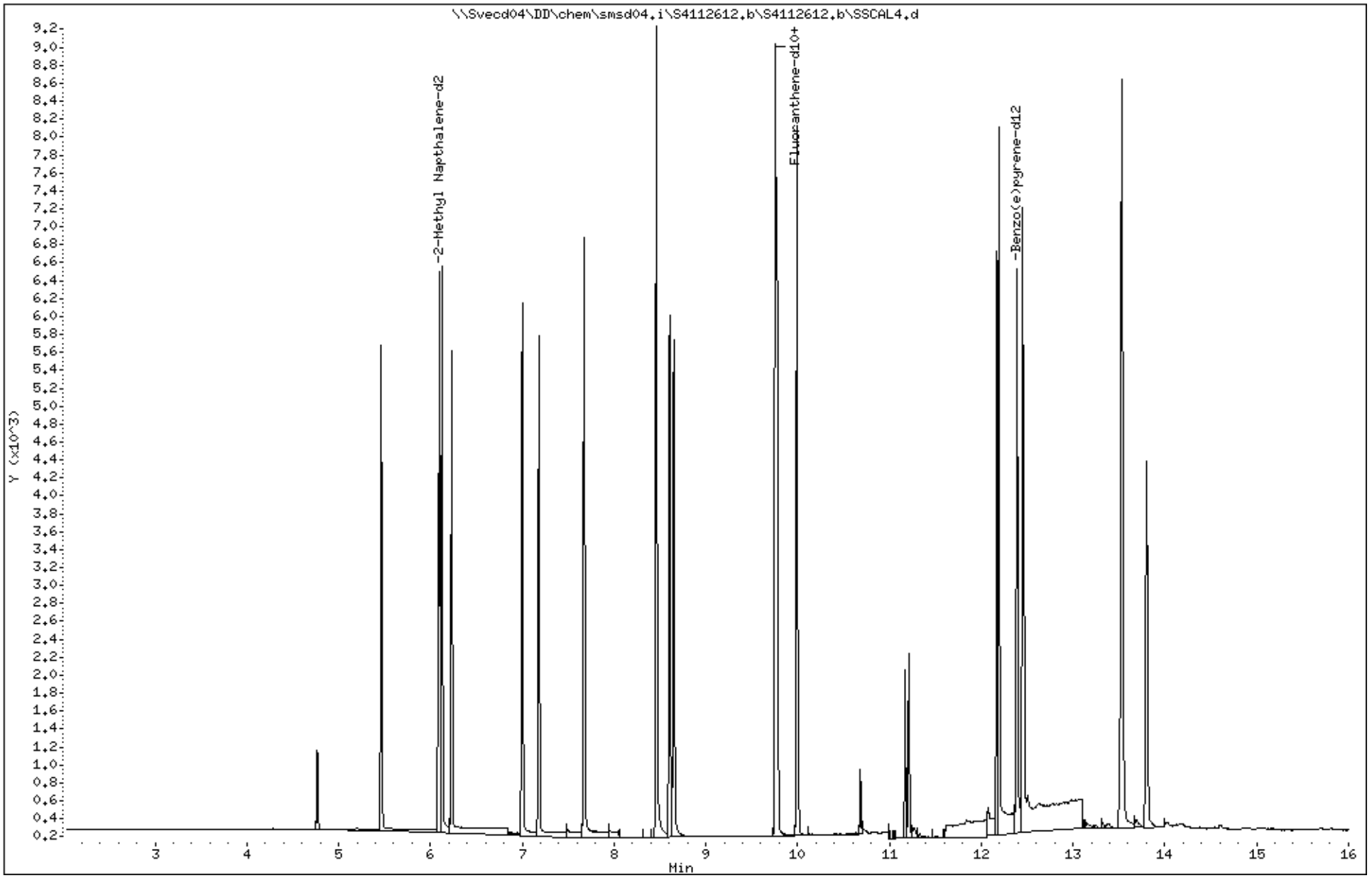
					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
7.181	7.181 (1.179)		153	2902	0.50000	0.48	80.00- 120.00	100.00
7.181	7.181 (1.179)		152	1389			17.86- 77.86	47.86
7 Fluorene						CAS #: 86-73-7		
7.671	7.671 (1.259)		166	3423	0.50000	0.48	80.00- 120.00	100.00
7.671	7.671 (1.259)		165	3191			63.22- 123.22	93.24
8 Pentachlorophenol						CAS #: 87-86-5		
8.462	8.462 (0.867)		266	5620	5.00000	5.3	80.00- 120.00	100.00
8.462	8.462 (0.867)		264	3579			33.68- 93.68	63.68
9 Phenanthrene						CAS #: 85-01-8		
8.607	8.607 (0.882)		178	5185	0.50000	0.45	80.00- 120.00	100.00
8.600	8.607 (0.882)		176	983			0.00- 48.96	18.97
10 Anthracene						CAS #: 120-12-7		
8.651	8.651 (0.887)		178	5069	0.50000	0.49	80.00- 120.00	100.00
8.643	8.651 (0.886)		176	911			0.00- 47.97	17.98
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.756	9.756 (1.000)		212	8046	0.80000		80.00- 120.00	100.00
9.756	9.756 (1.000)		106	950			0.00- 41.81	11.81
12 Fluoranthene						CAS #: 206-44-0		
9.780	9.780 (1.002)		202	5838	0.50000	0.46	80.00- 120.00	100.00
9.772	9.780 (1.002)		101	610			0.00- 40.45	10.45
13 Pyrene						CAS #: 129-00-0		
9.994	9.994 (1.024)		202	6101	0.50000	0.46	80.00- 120.00	100.00
9.994	9.994 (1.024)		101	1103			0.00- 48.08	18.09
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.169	11.169 (1.145)		226	1525	0.50000	0.53	80.00- 120.00	100.00
11.169	11.169 (1.145)		200	242			0.00- 45.87	15.92
15 Chrysene						CAS #: 218-01-9		
11.211	11.211 (1.149)		226	1647	0.50000	0.48	80.00- 120.00	100.00
11.211	11.211 (1.149)		200	245			0.00- 44.88	14.89
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.177	12.177 (1.248)		252	7040	0.50000	0.58	80.00- 120.00	100.00
12.169	12.177 (1.247)		250	1722			0.00- 54.46	24.47
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.192	12.192 (1.250)		252	6526	0.50000	0.47	80.00- 120.00	100.00
12.192	12.192 (1.250)		250	1324			0.00- 50.29	20.29
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.391	12.392 (1.270)		264	5567	0.50000	0.50	80.00- 120.00	100.00
12.383	12.392 (1.269)		132	748			0.00- 43.44	13.44
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.455	12.455 (1.277)		252	5559	0.50000	0.55	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	19 Benzo[a]pyrene (continued)							
12.455	12.455	(1.277)	250	1288			0.00- 53.17	23.17
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.528	13.529	(1.387)	276	6233	0.50000	0.53	80.00- 120.00	100.00
13.528	13.529	(1.387)	138	1327			0.00- 51.29	21.29
	21 Dibenz[a,h]anthracene					CAS #: 53-70-3		
13.536	13.537	(1.388)	278	5085	0.50000	0.53	80.00- 120.00	100.00
13.528	13.537	(1.387)	138	1327			0.00- 56.10	26.10
	22 Benzo[g,h,i]perylene					CAS #: 191-24-2		
13.807	13.807	(1.415)	276	5371	0.50000	0.52	80.00- 120.00	100.00
13.799	13.807	(1.414)	138	905			0.00- 46.85	16.87

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SSCAL4.d
Date : 26-NOV-2012 16:44
Client ID: SSCAL4
Sample Info: 47785

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

444



3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\616-05.d
Lab Smp Id: 350761605 Client Smp ID: CV0043C-CS
Inj Date : 26-NOV-2012 19:28 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : sim350761605
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SS8270.m
Meth Date : 27-Nov-2012 17:10 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.330	Weight of sample extracted (g)
M	23.400	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.465	5.465 (0.560)	128	4814	0.45232		23.3	80.00- 120.00	100.00
	5.465	5.465 (0.560)	129	596				0.00- 40.98	12.38
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.092	6.092 (1.000)	152	4751	0.80000			80.00- 120.00	100.00
	6.092	6.092 (1.000)	122	2146				15.11- 75.11	45.17
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.124	6.125 (1.005)	142	3231	0.47747		24.6	80.00- 120.00	100.00
	6.124	6.125 (1.005)	141	2812				56.37- 116.37	87.03
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.227	6.227 (1.022)	142	1914	0.30820		15.9	80.00- 120.00	100.00
	6.227	6.227 (1.022)	141	1700				58.60- 118.60	88.82
	5 Acenaphthylene						CAS #: 208-96-8		
	7.003	7.003 (1.150)	152	844	0.08713		4.5	80.00- 120.00	100.00
	7.003	7.003 (1.150)	151	170				0.00- 49.48	20.14
	6 Acenaphthene						CAS #: 83-32-9		
	7.181	7.181 (1.179)	153	367	0.05526		2.8	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.181	7.181 (1.179)		152	217			17.86- 77.86	59.13
	7 Fluorene					CAS #: 86-73-7		
7.671	7.671 (1.259)		166	382	0.04859	2.5	80.00- 120.00	100.00
7.671	7.671 (1.259)		165	381			63.22- 123.22	99.74
	9 Phenanthrene					CAS #: 85-01-8		
8.607	8.607 (0.882)		178	10995	0.88350	45.5	80.00- 120.00	100.00
8.600	8.607 (0.882)		176	2111			0.00- 48.96	19.20
	10 Anthracene					CAS #: 120-12-7		
8.651	8.651 (0.887)		178	1820	0.16303	8.4	80.00- 120.00	100.00
8.644	8.651 (0.886)		176	339			0.00- 47.97	18.63
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.756	9.756 (1.000)		212	8676	0.80000		80.00- 120.00	100.00
9.756	9.756 (1.000)		106	1018			0.00- 41.81	11.73
	12 Fluoranthene					CAS #: 206-44-0		
9.772	9.780 (1.002)		202	20634	1.49605	77.1	80.00- 120.00	100.00
9.772	9.780 (1.002)		101	2072			0.00- 40.45	10.04
	13 Pyrene					CAS #: 129-00-0		
9.994	9.994 (1.024)		202	17873	1.26393	65.1	80.00- 120.00	100.00
9.994	9.994 (1.024)		101	2467			0.00- 48.08	13.80
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.169	11.169 (1.145)		226	3740	1.19844	61.8	80.00- 120.00	100.00
11.169	11.169 (1.145)		200	579			0.00- 45.87	15.48
	15 Chrysene					CAS #: 218-01-9		
11.211	11.211 (1.149)		226	4546	1.23050	63.4	80.00- 120.00	100.00
11.211	11.211 (1.149)		200	727			0.00- 44.88	15.99
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.169	12.177 (1.247)		252	17564	1.33618	68.9	80.00- 120.00	100.00(M)
12.169	12.177 (1.247)		250	4377			0.00- 54.46	24.92
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.185	12.192 (1.249)		252	16964	1.14297	58.9	80.00- 120.00	100.00(M)
12.169	12.192 (1.247)		250	5537			0.00- 50.29	32.64
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.383	12.392 (1.269)		264	3678	0.30675	15.8	80.00- 120.00	100.00(M)
12.383	12.392 (1.269)		132	420			0.00- 43.44	11.42
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.455	12.455 (1.277)		252	13257	1.20766	62.2	80.00- 120.00	100.00
12.447	12.455 (1.276)		250	3021			0.00- 53.17	22.79
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.520	13.529 (1.386)		276	10911	0.86295	44.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.520	13.529	(1.386)	138	2340			0.00- 51.29	21.45
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.528	13.537	(1.387)	278	4437	0.42902	22.1	80.00- 120.00	100.00
13.520	13.537	(1.386)	138	2146			0.00- 56.10	48.37
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.799	13.807	(1.414)	276	11048	0.99952	51.5	80.00- 120.00	100.00
13.799	13.807	(1.414)	138	1857			0.00- 46.85	16.81

QC Flag Legend

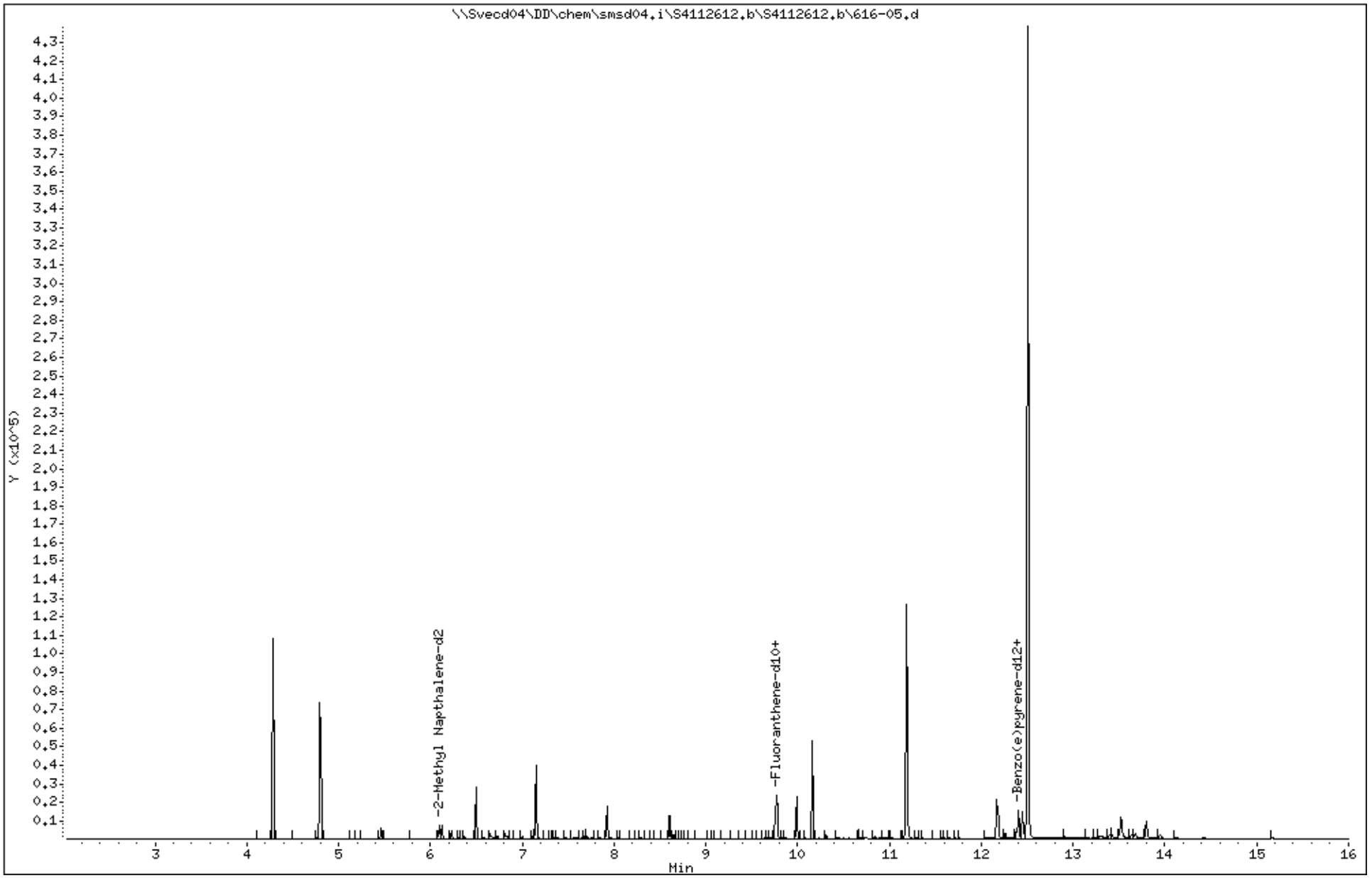
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\616-05.d
Date : 26-NOV-2012 19:28
Client ID: CV0043C-CS
Sample Info: sim350761605

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

448

3507616



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\616-13.d
Lab Smp Id: 350761613 Client Smp ID: FM0126C-GS-SP
Inj Date : 26-NOV-2012 19:48 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : sim350761613
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SS8270.m
Meth Date : 27-Nov-2012 17:10 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.600	Weight of sample extracted (g)
M	28.200	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene						CAS #: 91-20-3		
	5.465	5.465 (0.560)		128	26349	2.91402	158	80.00- 120.00	100.00
	5.465	5.465 (0.560)		129	2906			0.00- 40.98	11.03
*	2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
	6.092	6.092 (1.000)		152	3837	0.80000		80.00- 120.00	100.00
	6.092	6.092 (1.000)		122	1724			15.11- 75.11	44.93
	3 2-Methylnaphthalene						CAS #: 91-57-6		
	6.124	6.125 (1.005)		142	8990	1.64497	89.5	80.00- 120.00	100.00
	6.124	6.125 (1.005)		141	7723			56.37- 116.37	85.91
	4 1-Methylnaphthalene						CAS #: 90-12-0		
	6.227	6.227 (1.022)		142	4852	0.96739	52.6	80.00- 120.00	100.00
	6.227	6.227 (1.022)		141	4305			58.60- 118.60	88.73
	5 Acenaphthylene						CAS #: 208-96-8		
	7.003	7.003 (1.150)		152	1629	0.20822	11.3	80.00- 120.00	100.00
	6.996	7.003 (1.148)		151	349			0.00- 49.48	21.42
	6 Acenaphthene						CAS #: 83-32-9		
	7.181	7.181 (1.179)		153	11814	2.20276	120	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.181	7.181 (1.179)		152	5681			17.86- 77.86	48.09
	7 Fluorene					CAS #: 86-73-7		
7.671	7.671 (1.259)		166	12780	2.01285	110	80.00- 120.00	100.00
7.671	7.671 (1.259)		165	11573			63.22- 123.22	90.56
	8 Pentachlorophenol					CAS #: 87-86-5		
8.462	8.462 (0.867)		266	27	1.40442	76.4	80.00- 120.00	100.00
8.462	8.462 (0.867)		264	17			33.68- 93.68	62.96
	9 Phenanthrene					CAS #: 85-01-8		
8.607	8.607 (0.882)		178	142925	13.5180	735	80.00- 120.00	100.00(A)
8.600	8.607 (0.882)		176	27060			0.00- 48.96	18.93
	10 Anthracene					CAS #: 120-12-7		
8.644	8.651 (0.886)		178	37393	3.94252	214	80.00- 120.00	100.00
8.644	8.651 (0.886)		176	6736			0.00- 47.97	18.01
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.756	9.756 (1.000)		212	7371	0.80000		80.00- 120.00	100.00
9.756	9.756 (1.000)		106	842			0.00- 41.81	11.42
	12 Fluoranthene					CAS #: 206-44-0		
9.772	9.780 (1.002)		202	181171	15.4613	841	80.00- 120.00	100.00(A)
9.772	9.780 (1.002)		101	18281			0.00- 40.45	10.09
	13 Pyrene					CAS #: 129-00-0		
9.994	9.994 (1.024)		202	140498	11.6947	636	80.00- 120.00	100.00(A)
9.994	9.994 (1.024)		101	17867			0.00- 48.08	12.72
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.169	11.169 (1.145)		226	28452	10.7313	584	80.00- 120.00	100.00(A)
11.169	11.169 (1.145)		200	4830			0.00- 45.87	16.98
	15 Chrysene					CAS #: 218-01-9		
11.211	11.211 (1.149)		226	33432	10.6514	579	80.00- 120.00	100.00(A)
11.211	11.211 (1.149)		200	5198			0.00- 44.88	15.55
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.169	12.177 (1.247)		252	99893	8.94478	487	80.00- 120.00	100.00(M)
12.169	12.177 (1.247)		250	24457			0.00- 54.46	24.48
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.185	12.192 (1.249)		252	125963	9.98951	543	80.00- 120.00	100.00(M)
12.185	12.192 (1.249)		250	28331			0.00- 50.29	22.49
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.383	12.392 (1.269)		264	2905	0.28517	15.5	80.00- 120.00	100.00(M)
12.383	12.392 (1.269)		132	391			0.00- 43.44	13.46
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.455	12.455 (1.277)		252	87398	9.37117	510	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
19 Benzo[a]pyrene (continued)								
12.455	12.455	(1.277)	250	19808			0.00- 53.17	22.66
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.528	13.529	(1.387)	276	56880	5.29511	288	80.00- 120.00	100.00
13.520	13.529	(1.386)	138	12102			0.00- 51.29	21.28
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.528	13.537	(1.387)	278	28265	3.21685	175	80.00- 120.00	100.00
13.520	13.537	(1.386)	138	10175			0.00- 56.10	36.00
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.807	13.807	(1.415)	276	52559	5.59689	304	80.00- 120.00	100.00
13.807	13.807	(1.415)	138	8741			0.00- 46.85	16.63

QC Flag Legend

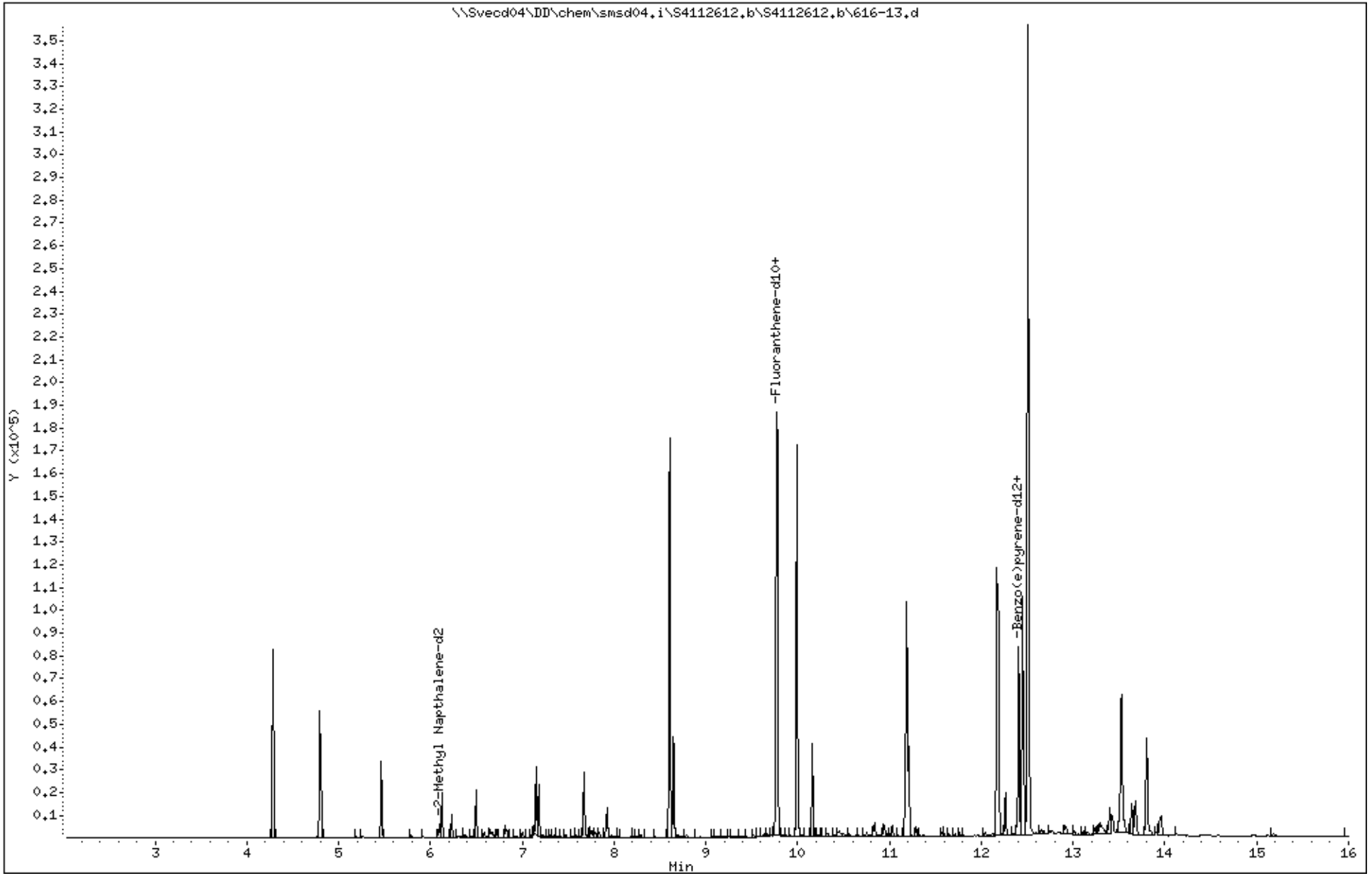
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\616-13.d
Date : 26-NOV-2012 19:48
Client ID: FM0126C-GS-SP
Sample Info: sim350761613

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

452

3507616



Data File: 112812DFTPP1.d
Report Date: 30-Nov-2012 09:53

PEL Laboratories, Inc.

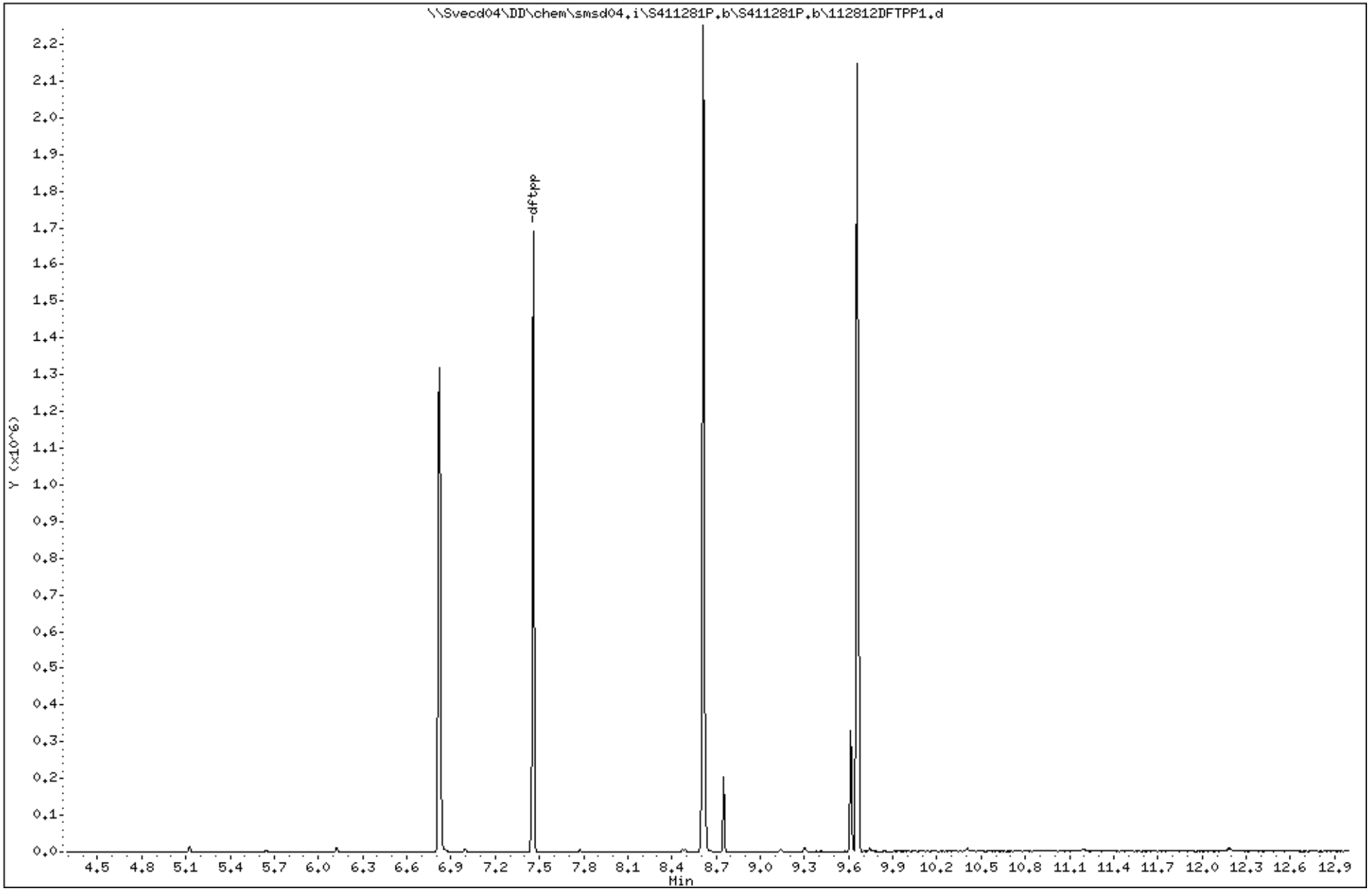
Data file : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\112812DFTPP1.d
Lab Smp Id: 47137 Client Smp ID: 112812DFTPP1
Inj Date : 28-NOV-2012 14:54 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47137
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S411281P.b\DoDTUN.m
Meth Date : 06-Aug-2012 11:47 Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 21 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: SVECD04

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.458	7.410	(0.000)	198	147200			0.00- 100.00	100.00
7.458	7.410	(0.000)	51	61816			10.00- 80.00	41.99
7.458	7.410	(0.000)	68	0	0.0	0.0	0.00- 2.00	0.00
7.458	7.410	(0.000)	69	79160			0.00- 0.00	53.78
7.458	7.410	(0.000)	70	0	0.0	0.0	0.00- 2.00	0.00
7.458	7.410	(0.000)	127	72768			10.00- 80.00	49.43
7.458	7.410	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.458	7.410	(0.000)	199	9805			5.00- 9.00	6.66
7.458	7.410	(0.000)	275	36936			10.00- 60.00	25.09
7.458	7.410	(0.000)	365	4543			1.00- 0.00	3.09
7.458	7.410	(0.000)	441	19952			0.01- 24.00	17.50
7.458	7.410	(0.000)	442	114032			50.00- 0.00	77.47
7.458	7.410	(0.000)	443	21792			15.00- 24.00	19.11

Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\112812DFTPP1.d
Date : 28-NOV-2012 14:54
Client ID: 112812DFTPP1
Instrument: smsd04.i
Sample Info: 47137
Volume Injected (uL): 1.0
Operator: MJ
Column phase:
Column diameter: 2.00



454

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Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\112812DFTPP1.d

Date : 28-NOV-2012 14:54

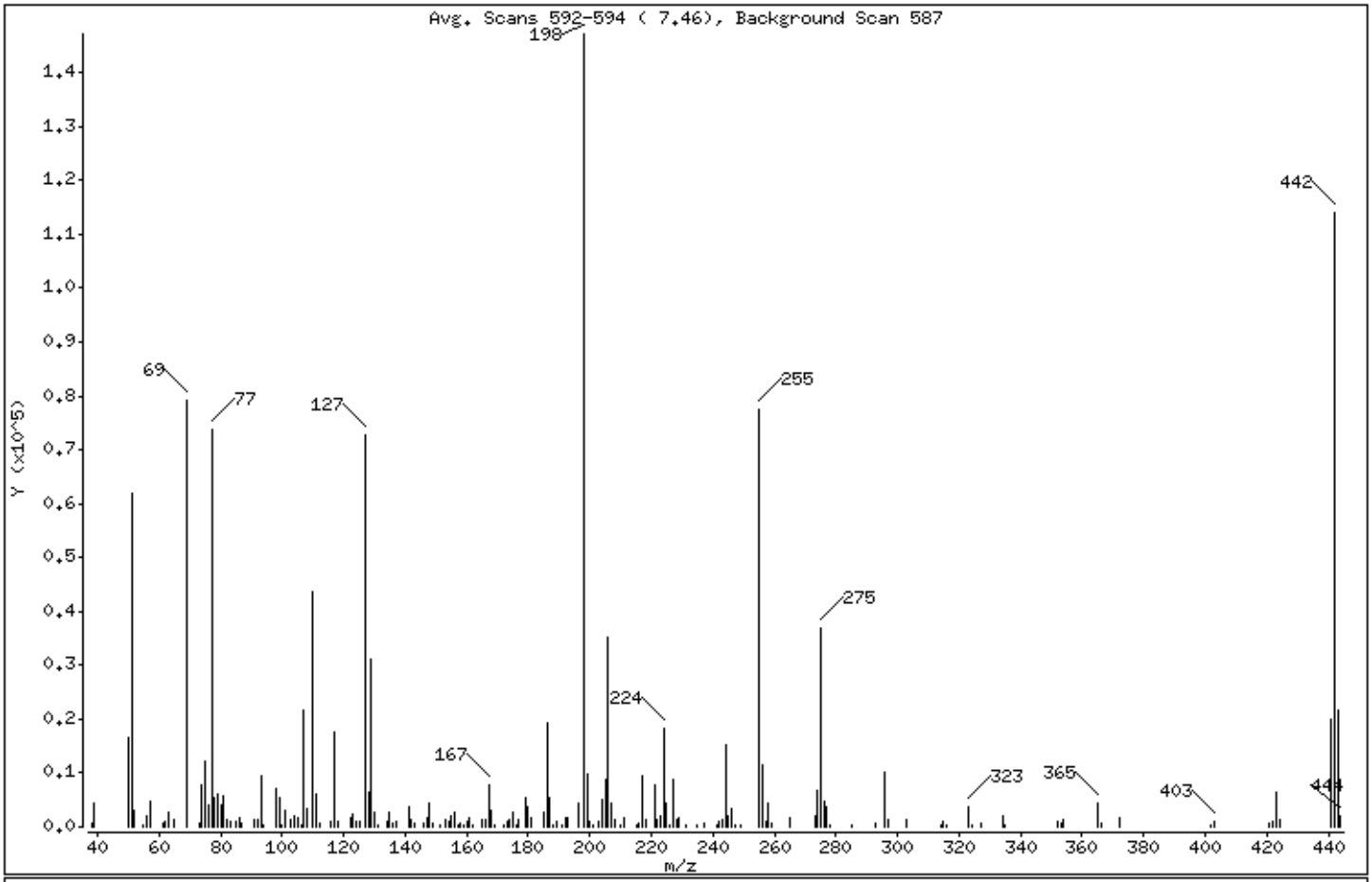
Client ID: 112812DFTPP1 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.99
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.78
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.43
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	25.09
365	Greater than 1.00% of mass 198	3.09
441	0.01 - 24.00% of mass 442	13.55 (17.50)
442	Greater than 50.00% of mass 198	77.47
443	15.00 - 24.00% of mass 442	14.80 (19.11)

Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\112812DFTPP1.d

Date : 28-NOV-2012 14:54

Client ID: 112812DFTPP1 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: 112812DFTPP1.d
Spectrum: Avg. Scans 592-594 (7.46), Background Scan 587
Location of Maximum: 198.00
Number of points: 178

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	690	117.00	17712	180.00	3559	247.00	245
39.00	4482	118.00	1125	181.00	1702	249.00	324
50.00	16552	122.00	1795	185.00	2544	255.00	77552
51.00	61816	123.00	2382	186.00	19280	256.00	11650
52.00	3141	124.00	859	187.00	5554	257.00	990
55.00	225	125.00	944	188.00	230	258.00	4248
56.00	2158	127.00	72768	189.00	1140	259.00	603
57.00	4733	128.00	6326	191.00	244	265.00	1773
61.00	721	129.00	31144	192.00	1602	273.00	2089
62.00	905	130.00	2541	193.00	1823	274.00	6788
63.00	2614	131.00	495	196.00	4455	275.00	36936
65.00	1437	134.00	1069	198.00	147200	276.00	4687
69.00	79160	135.00	2659	199.00	9805	277.00	3591
73.00	534	136.00	703	200.00	865	278.00	495
74.00	7619	137.00	1070	201.00	381	285.00	355
75.00	12172	141.00	3697	203.00	977	293.00	813
76.00	4100	142.00	1363	204.00	4938	296.00	10102
77.00	73768	143.00	810	205.00	8948	297.00	1265
78.00	5350	146.00	583	206.00	35096	303.00	1207
79.00	5986	147.00	1819	207.00	4470	314.00	248
80.00	4181	148.00	4373	208.00	1320	315.00	1173
81.00	5820	149.00	707	210.00	236	316.00	501
82.00	1420	151.00	479	211.00	1768	323.00	3712
83.00	971	153.00	1414	215.00	220	324.00	255
85.00	1169	154.00	914	216.00	617	327.00	563
86.00	1732	155.00	2002	217.00	9368	334.00	2052
87.00	578	156.00	2793	218.00	1258	335.00	345
91.00	1343	157.00	344	221.00	7635	352.00	1036
92.00	1507	158.00	668	222.00	1347	353.00	593
93.00	9534	159.00	251	223.00	2121	354.00	1313
94.00	500	160.00	1068	224.00	18432	365.00	4543
98.00	7206	161.00	1544	225.00	4497	366.00	535
99.00	5316	162.00	242	226.00	280	372.00	1631
100.00	457	165.00	1432	227.00	8692	402.00	232
101.00	2955	166.00	1204	228.00	1328	403.00	961

Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\112812DFTPP1.d

Date : 28-NOV-2012 14:54

Client ID: 112812DFTPP1 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: 112812DFTPP1.d
Spectrum: Avg. Scans 592-594 (7.46), Background Scan 587
Location of Maximum: 198.00
Number of points: 178

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.00	1270	167.00	7629	229.00	1641	421.00	779
104.00	2038	168.00	3200	231.00	236	422.00	1089
105.00	1732	169.00	340	235.00	300	423.00	6410
106.00	347	172.00	287	237.00	574	424.00	1396
107.00	21496	173.00	1008	241.00	254	441.00	19952
108.00	3452	174.00	1339	242.00	1071	442.00	114032
110.00	43784	175.00	2708	243.00	1361	443.00	21792
111.00	6249	176.00	346	244.00	15133	444.00	2023
112.00	653	177.00	1446	245.00	2168		
116.00	1153	179.00	5311	246.00	3249		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/28/2012 15:23

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S411281P.b/112812DFTPP1.d
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 17:51

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S411281P.b/S411281P.b/112812DF
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/29/2012 18:23

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S411281P.b/S411281P.b/112812DF
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/30/2012 09:53

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S411281P.b/S411281P.b/112812DF

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Data file : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\SSCCV1.d
Lab Smp Id: 47785 Client Smp ID: SSCCV1
Inj Date : 28-NOV-2012 17:13 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47785
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\SS8270.m
Meth Date : 28-Nov-2012 17:39 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: WETCHEMDX500

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.465	5.465 (0.560)		128	2949	0.50000	0.43	80.00- 120.00	100.00
5.465	5.465 (0.560)		129	298			0.00- 40.11	10.12
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.100	6.100 (1.000)		152	2932	0.80000		80.00- 120.00	100.00
6.092	6.092 (1.000)		122	1305			14.51- 74.51	44.50
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.124	6.124 (1.004)		142	1915	0.50000	0.46	80.00- 120.00	100.00
6.124	6.124 (1.004)		141	1672			57.31- 117.31	87.28
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.227	6.227 (1.021)		142	1840	0.50000	0.48	80.00- 120.00	100.00
6.227	6.227 (1.021)		141	1582			55.98- 115.98	86.01
	5 Acenaphthylene					CAS #: 208-96-8		
7.003	7.003 (1.148)		152	3021	0.50000	0.50	80.00- 120.00	100.00
7.003	7.003 (1.148)		151	580			0.00- 49.20	19.20

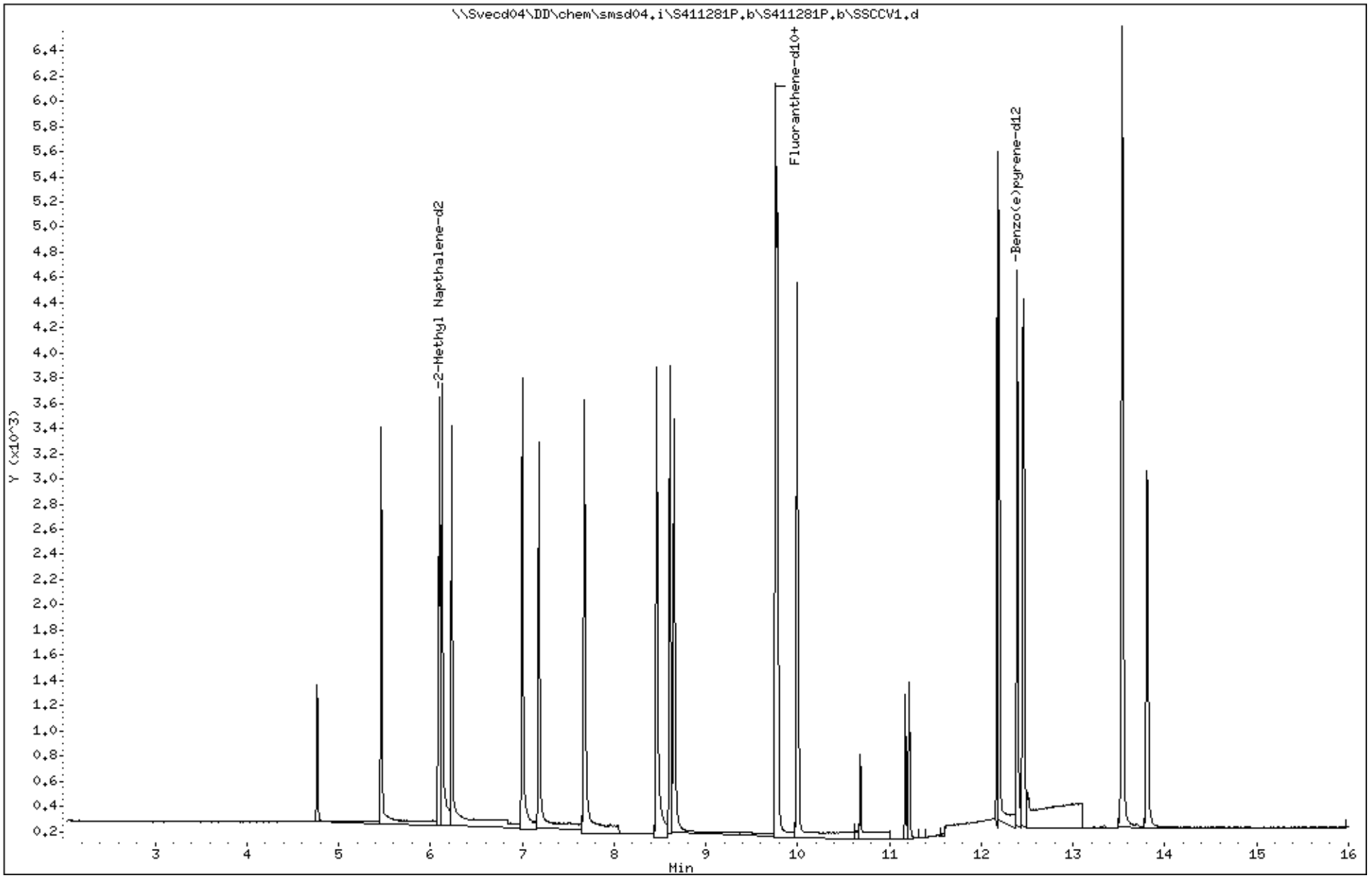
					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
7.181	7.181 (1.177)		153	1933	0.50000	0.47	80.00- 120.00	100.00
7.181	7.181 (1.177)		152	903			16.71- 76.71	46.71
7 Fluorene						CAS #: 86-73-7		
7.678	7.678 (1.259)		166	2307	0.50000	0.48	80.00- 120.00	100.00
7.678	7.678 (1.259)		165	2134			62.50- 122.50	92.49
8 Pentachlorophenol						CAS #: 87-86-5		
8.469	8.469 (0.867)		266	3414	5.00000	4.8	80.00- 120.00	100.00
8.469	8.469 (0.867)		264	2153			33.06- 93.06	63.05
9 Phenanthrene						CAS #: 85-01-8		
8.607	8.607 (0.882)		178	3312	0.50000	0.42	80.00- 120.00	100.00
8.607	8.607 (0.882)		176	645			0.00- 49.47	19.49
10 Anthracene						CAS #: 120-12-7		
8.651	8.651 (0.886)		178	3524	0.50000	0.49	80.00- 120.00	100.00
8.651	8.651 (0.886)		176	633			0.00- 47.96	17.97
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.764	9.764 (1.000)		212	5535	0.80000		80.00- 120.00	100.00
9.764	9.764 (1.000)		106	642			0.00- 41.60	11.60
12 Fluoranthene						CAS #: 206-44-0		
9.780	9.780 (1.002)		202	4107	0.50000	0.47	80.00- 120.00	100.00
9.780	9.780 (1.002)		101	414			0.00- 40.08	10.09
13 Pyrene						CAS #: 129-00-0		
10.002	10.002 (1.024)		202	4327	0.50000	0.48	80.00- 120.00	100.00
9.994	9.994 (1.024)		101	896			0.00- 50.71	20.73
14 Benzo[a]anthracene						CAS #: 56-55-3		
11.176	11.176 (1.145)		226	1058	0.50000	0.53	80.00- 120.00	100.00
11.176	11.176 (1.145)		200	161			0.00- 45.22	15.29
15 Chrysene						CAS #: 218-01-9		
11.218	11.218 (1.149)		226	1193	0.50000	0.51	80.00- 120.00	100.00
11.211	11.211 (1.148)		200	175			0.00- 44.67	14.67
16 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.177	12.177 (1.247)		252	4372	0.50000	0.52	80.00- 120.00	100.00
12.177	12.177 (1.247)		250	1036			0.00- 53.70	23.69
17 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.193	12.193 (1.249)		252	5326	0.50000	0.56	80.00- 120.00	100.00
12.193	12.193 (1.249)		250	1114			0.00- 50.92	20.93
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.391	12.391 (1.269)		264	4121	0.50000	0.54	80.00- 120.00	100.00
12.391	12.391 (1.269)		132	499			0.00- 42.11	12.13
19 Benzo[a]pyrene						CAS #: 50-32-8		
12.463	12.463 (1.276)		252	3998	0.50000	0.57	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
19 Benzo[a]pyrene (continued)								
12.455	12.455	(1.276)	250	916			0.00- 52.91	22.94
20 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.528	13.528	(1.386)	276	4569	0.50000	0.57	80.00- 120.00	100.00
13.536	13.536	(1.386)	138	923			0.00- 50.20	20.21
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.536	13.536	(1.386)	278	3783	0.50000	0.57	80.00- 120.00	100.00
13.536	13.536	(1.386)	138	938			0.00- 54.80	24.81
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.807	13.807	(1.414)	276	3929	0.50000	0.56	80.00- 120.00	100.00
13.807	13.807	(1.414)	138	677			0.00- 47.23	17.25

Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\SSCCV1.d
Date : 28-NOV-2012 17:13
Client ID: SSCCV1
Sample Info: 47785

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25

462



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Data file : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\11607MB.d
Lab Smp Id: 154206MB Client Smp ID: 154206MB
Inj Date : 28-NOV-2012 17:54 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : SIM154206MB
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\SS8270.m
Meth Date : 28-Nov-2012 17:39 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 27 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

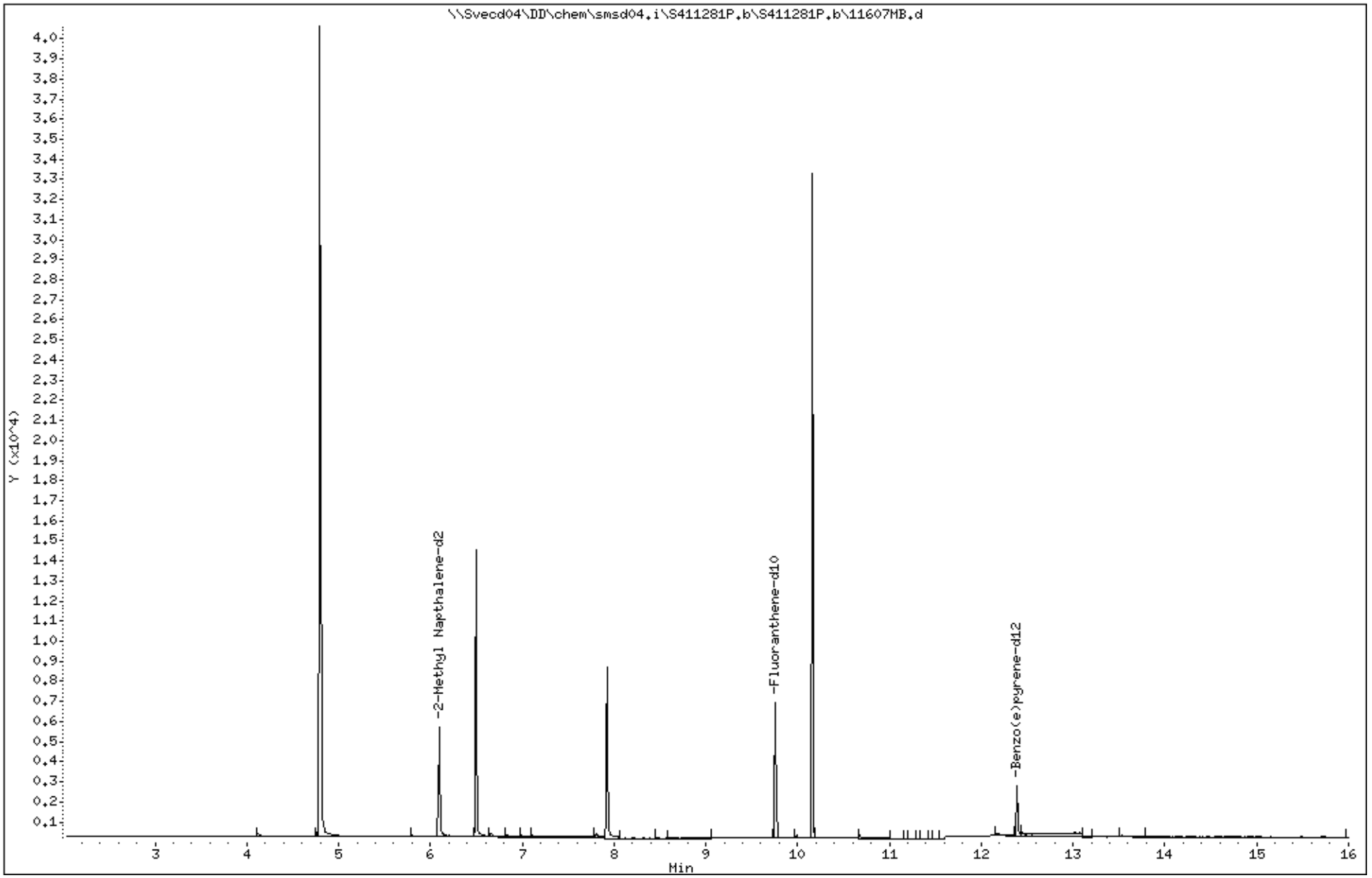
Name	Value	Description
DF	1.000	Dilution Factor
Ws	20.190	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
* 2 2-Methyl Napthalene-d2						CAS #: 7927-45-2		
6.092	6.100	(1.000)	152	4021	0.80000		80.00- 120.00	100.00
6.092	6.092	(1.000)	122	1849			14.51- 74.51	46.00
* 11 Fluoranthene-d10						CAS #: 93951-69-0		
9.756	9.764	(1.000)	212	6767	0.80000		80.00- 120.00	100.00
9.756	9.764	(1.000)	106	801			0.00- 41.60	11.84
$ 18 Benzo(e)pyrene-d12						CAS #: 205440-82-0		
12.391	12.391	(1.270)	264	2350	0.25128	12.4	80.00- 120.00	100.00
12.383	12.391	(1.269)	132	291			0.00- 42.11	12.42

Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\11607MB.d
Date : 28-NOV-2012 17:54
Client ID: 154206MB
Sample Info: SIM154206MB

Instrument: smsd04.i
Operator: MJ
Column diameter: 0.25

Column phase: HPMS-5



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\11607LCS.d
Lab Smp Id: 154207LCS Client Smp ID: 154207LCS
Inj Date : 28-NOV-2012 18:15 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : SIM154207LCS
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\SS8270.m
Meth Date : 28-Nov-2012 17:39 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 28 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	20.220	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.465	5.465 (0.560)		128	2374	0.31462	15.6	80.00- 120.00	100.00
5.465	5.465 (0.560)		129	252			0.00- 40.11	10.62
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.093	6.100 (1.000)		152	3594	0.80000		80.00- 120.00	100.00
6.093	6.092 (1.000)		122	1510			14.51- 74.51	42.02
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.124	6.124 (1.005)		142	1559	0.30455	15.1	80.00- 120.00	100.00(R)
6.124	6.124 (1.005)		141	1332			57.31- 117.31	85.42
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.228	6.227 (1.022)		142	1463	0.31141	15.4	80.00- 120.00	100.00(R)
6.228	6.227 (1.022)		141	1275			55.98- 115.98	87.19
	5 Acenaphthylene					CAS #: 208-96-8		
7.004	7.003 (1.150)		152	2468	0.33680	16.6	80.00- 120.00	100.00
6.997	7.003 (1.148)		151	493			0.00- 49.20	19.98
	6 Acenaphthene					CAS #: 83-32-9		
7.181	7.181 (1.179)		153	1596	0.31770	15.7	80.00- 120.00	100.00(R)

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.181	7.181 (1.179)		152	763			16.71- 76.71	47.83
	7 Fluorene					CAS #: 86-73-7		
7.671	7.678 (1.259)		166	1934	0.32520	16.1	80.00- 120.00	100.00(R)
7.671	7.678 (1.259)		165	1792			62.50- 122.50	92.64
	9 Phenanthrene					CAS #: 85-01-8		
8.607	8.607 (0.882)		178	2927	0.33175	16.4	80.00- 120.00	100.00
8.607	8.607 (0.882)		176	561			0.00- 49.47	19.19
	10 Anthracene					CAS #: 120-12-7		
8.651	8.651 (0.886)		178	2886	0.36464	18.0	80.00- 120.00	100.00
8.651	8.651 (0.886)		176	516			0.00- 47.96	17.90
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.764	9.764 (1.000)		212	6151	0.80000		80.00- 120.00	100.00
9.756	9.764 (1.000)		106	710			0.00- 41.60	11.55
	12 Fluoranthene					CAS #: 206-44-0		
9.780	9.780 (1.002)		202	3496	0.35753	17.7	80.00- 120.00	100.00
9.772	9.780 (1.001)		101	370			0.00- 40.08	10.59
	13 Pyrene					CAS #: 129-00-0		
9.994	10.002 (1.024)		202	3629	0.36198	17.9	80.00- 120.00	100.00
9.994	9.994 (1.024)		101	509			0.00- 50.71	14.05
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.176	11.176 (1.145)		226	914	0.41311	20.4	80.00- 120.00	100.00
11.170	11.176 (1.144)		200	136			0.00- 45.22	14.93
	15 Chrysene					CAS #: 218-01-9		
11.211	11.218 (1.148)		226	999	0.38141	18.9	80.00- 120.00	100.00
11.211	11.211 (1.148)		200	149			0.00- 44.67	14.98
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.177	12.177 (1.247)		252	3784	0.40604	20.1	80.00- 120.00	100.00
12.177	12.177 (1.247)		250	914			0.00- 53.70	24.16
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.193	12.193 (1.249)		252	4318	0.41036	20.3	80.00- 120.00	100.00
12.193	12.193 (1.249)		250	944			0.00- 50.92	21.87
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.391	12.391 (1.269)		264	2382	0.28021	13.8	80.00- 120.00	100.00
12.384	12.391 (1.268)		132	285			0.00- 42.11	11.99
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.455	12.463 (1.276)		252	3315	0.42595	21.1	80.00- 120.00	100.00
12.455	12.455 (1.276)		250	763			0.00- 52.91	23.04
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.529	13.528 (1.386)		276	3821	0.42626	21.1	80.00- 120.00	100.00

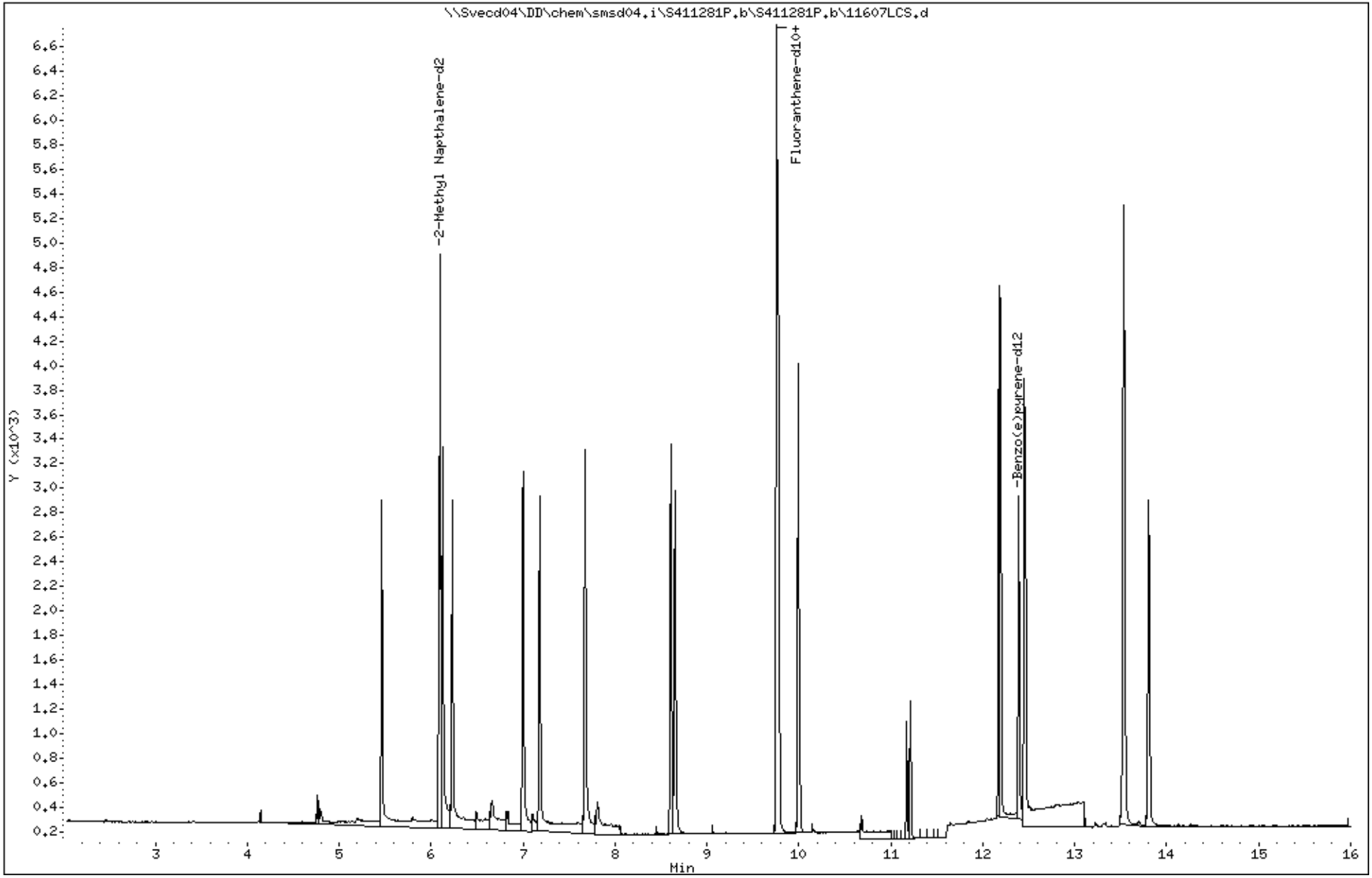
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.529	13.536	(1.386)	138	768			0.00- 50.20	20.11
21 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.537	13.536	(1.386)	278	3108	0.42388	21.0	80.00- 120.00	100.00
13.529	13.536	(1.386)	138	766			0.00- 54.80	24.66
22 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.807	13.807	(1.414)	276	3289	0.41971	20.8	80.00- 120.00	100.00
13.807	13.807	(1.414)	138	550			0.00- 47.23	16.75

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Svecd04\DD\chem\smsd04.i\S411281P.b\S411281P.b\11607LCS.d
Date : 28-NOV-2012 18:15
Client ID: 154207LCS
Sample Info: SIM154207LCS

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



468

3507616

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\11607MS.d
Lab Smp Id: 154208MS Client Smp ID: CV0043A-CSMS
Inj Date : 26-NOV-2012 20:49 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : sim154208MS
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SS8270.m
Meth Date : 27-Nov-2012 17:10 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.020	Weight of sample extracted (g)
M	22.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
1 Naphthalene							CAS #: 91-20-3	
5.465	5.465 (0.560)		128	18575	1.93261	99.0	80.00- 120.00	100.00(R)
5.465	5.465 (0.560)		129	2098			0.00- 40.98	11.29
* 2 2-Methyl Napthalene-d2							CAS #: 7927-45-2	
6.092	6.092 (1.000)		152	4040	0.80000		80.00- 120.00	100.00
6.092	6.092 (1.000)		122	1964			15.11- 75.11	48.61
3 2-Methylnaphthalene							CAS #: 91-57-6	
6.124	6.125 (1.005)		142	11403	1.98166	102	80.00- 120.00	100.00(R)
6.124	6.125 (1.005)		141	9740			56.37- 116.37	85.42
4 1-Methylnaphthalene							CAS #: 90-12-0	
6.227	6.227 (1.022)		142	7672	1.45278	74.4	80.00- 120.00	100.00(R)
6.227	6.227 (1.022)		141	6837			58.60- 118.60	89.12
5 Acenaphthylene							CAS #: 208-96-8	
7.003	7.003 (1.150)		152	27863	3.38256	173	80.00- 120.00	100.00(R)
7.003	7.003 (1.150)		151	5544			0.00- 49.48	19.90
6 Acenaphthene							CAS #: 83-32-9	
7.181	7.181 (1.179)		153	3303	0.58491	30.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.181	7.181 (1.179)		152	1714			17.86- 77.86	51.89
	7 Fluorene					CAS #: 86-73-7		
7.671	7.671 (1.259)		166	18975	2.83840	145	80.00- 120.00	100.00(R)
7.671	7.671 (1.259)		165	17687			63.22- 123.22	93.21
	9 Phenanthrene					CAS #: 85-01-8		
8.607	8.607 (0.882)		178	325749	28.9852	1480	80.00- 120.00	100.00(AR)
8.607	8.607 (0.882)		176	61640			0.00- 48.96	18.92
	10 Anthracene					CAS #: 120-12-7		
8.651	8.651 (0.886)		178	53685	5.32505	273	80.00- 120.00	100.00(R)
8.651	8.651 (0.886)		176	9731			0.00- 47.97	18.13
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.764	9.756 (1.000)		212	7835	0.80000		80.00- 120.00	100.00
9.756	9.756 (1.000)		106	871			0.00- 41.81	11.12
	12 Fluoranthene					CAS #: 206-44-0		
9.780	9.780 (1.002)		202	500978	40.2219	2060	80.00- 120.00	100.00(AR)
9.780	9.780 (1.002)		101	51497			0.00- 40.45	10.28
	13 Pyrene					CAS #: 129-00-0		
10.002	9.994 (1.024)		202	361557	28.3128	1450	80.00- 120.00	100.00(AR)
9.994	9.994 (1.024)		101	43214			0.00- 48.08	11.95
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.176	11.169 (1.145)		226	79316	28.1441	1440	80.00- 120.00	100.00(AR)
11.176	11.169 (1.145)		200	8891			0.00- 45.87	11.21
	15 Chrysene					CAS #: 218-01-9		
11.218	11.211 (1.149)		226	62791	18.8204	964	80.00- 120.00	100.00(AR)
11.211	11.211 (1.148)		200	9957			0.00- 44.88	15.86
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.177	12.177 (1.247)		252	175273	14.7651	756	80.00- 120.00	100.00(ARM)
12.177	12.177 (1.247)		250	43309			0.00- 54.46	24.71
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.192	12.192 (1.249)		252	186224	13.8939	712	80.00- 120.00	100.00(ARM)
12.192	12.192 (1.249)		250	42113			0.00- 50.29	22.61
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.391	12.392 (1.269)		264	2950	0.27244	14.0	80.00- 120.00	100.00
12.391	12.392 (1.269)		132	396			0.00- 43.44	13.42
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.463	12.455 (1.276)		252	142960	14.4210	739	80.00- 120.00	100.00(AR)
12.455	12.455 (1.276)		250	33113			0.00- 53.17	23.16
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.528	13.529 (1.386)		276	97336	8.52464	437	80.00- 120.00	100.00(R)

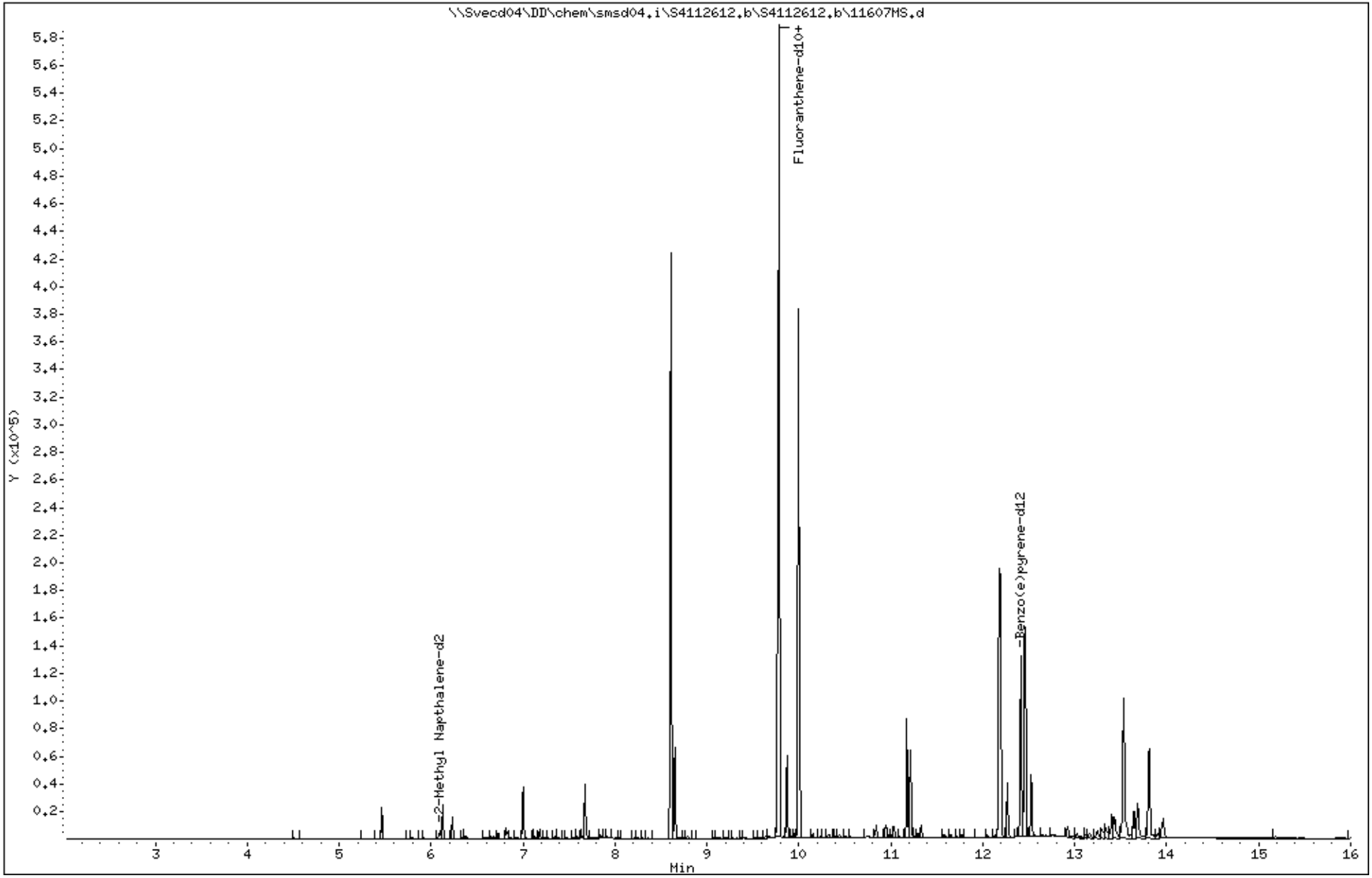
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.528	13.529	(1.386)	138	17729			0.00- 51.29	18.21
21 Dibenz[a,h]anthracene							CAS #: 53-70-3	
13.536	13.537	(1.386)	278	40105	4.29406	220	80.00- 120.00	100.00(R)
13.528	13.537	(1.386)	138	18114			0.00- 56.10	45.17
22 Benzo[g,h,i]perylene							CAS #: 191-24-2	
13.815	13.807	(1.415)	276	80495	8.06410	413	80.00- 120.00	100.00(R)
13.807	13.807	(1.414)	138	13992			0.00- 46.85	17.38

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\11607MS.d
Date : 26-NOV-2012 20:49
Client ID: CV0043A-CSMS
Sample Info: sim154208MS

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\11607MSD.d
Lab Smp Id: 154209MSD Client Smp ID: CV0043A-CSMSD
Inj Date : 26-NOV-2012 21:09 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : sim154209MSD
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\SS8270.m
Meth Date : 27-Nov-2012 17:10 nsubar Quant Type: ISTD
Cal Date : 14-NOV-2012 21:58 Cal File: SSCAL1.d
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.010	Weight of sample extracted (g)
M	22.000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
	1 Naphthalene					CAS #: 91-20-3		
5.465	5.465 (0.560)		128	15031	1.62464	83.3	80.00- 120.00	100.00(R)
5.465	5.465 (0.560)		129	1785			0.00- 40.98	11.88
*	2 2-Methyl Napthalene-d2					CAS #: 7927-45-2		
6.092	6.092 (1.000)		152	3952	0.80000		80.00- 120.00	100.00
6.092	6.092 (1.000)		122	1932			15.11- 75.11	48.89
	3 2-Methylnaphthalene					CAS #: 91-57-6		
6.124	6.125 (1.005)		142	10133	1.80016	92.3	80.00- 120.00	100.00(R)
6.124	6.125 (1.005)		141	8632			56.37- 116.37	85.19
	4 1-Methylnaphthalene					CAS #: 90-12-0		
6.228	6.227 (1.022)		142	6662	1.28962	66.1	80.00- 120.00	100.00(R)
6.228	6.227 (1.022)		141	5914			58.60- 118.60	88.77
	5 Acenaphthylene					CAS #: 208-96-8		
7.004	7.003 (1.150)		152	6368	0.79029	40.5	80.00- 120.00	100.00(R)
7.004	7.003 (1.150)		151	1264			0.00- 49.48	19.85
	6 Acenaphthene					CAS #: 83-32-9		
7.181	7.181 (1.179)		153	2875	0.52045	26.7	80.00- 120.00	100.00

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
	6 Acenaphthene (continued)							
7.181	7.181 (1.179)		152	1497			17.86- 77.86	52.07
	7 Fluorene					CAS #: 86-73-7		
7.671	7.671 (1.259)		166	3655	0.55891	28.6	80.00- 120.00	100.00
7.671	7.671 (1.259)		165	3423			63.22- 123.22	93.65
	9 Phenanthrene					CAS #: 85-01-8		
8.607	8.607 (0.882)		178	22474	2.07743	106	80.00- 120.00	100.00(R)
8.600	8.607 (0.882)		176	4275			0.00- 48.96	19.02
	10 Anthracene					CAS #: 120-12-7		
8.644	8.651 (0.886)		178	7712	0.79468	40.7	80.00- 120.00	100.00(R)
8.644	8.651 (0.886)		176	1423			0.00- 47.97	18.45
*	11 Fluoranthene-d10					CAS #: 93951-69-0		
9.756	9.756 (1.000)		212	7542	0.80000		80.00- 120.00	100.00
9.756	9.756 (1.000)		106	874			0.00- 41.81	11.59
	12 Fluoranthene					CAS #: 206-44-0		
9.780	9.780 (1.002)		202	41086	3.42681	176	80.00- 120.00	100.00(R)
9.772	9.780 (1.002)		101	4155			0.00- 40.45	10.11
	13 Pyrene					CAS #: 129-00-0		
9.994	9.994 (1.024)		202	36758	2.99027	153	80.00- 120.00	100.00(R)
9.994	9.994 (1.024)		101	4576			0.00- 48.08	12.45
	14 Benzo[a]anthracene					CAS #: 56-55-3		
11.169	11.169 (1.145)		226	9136	3.36771	173	80.00- 120.00	100.00(R)
11.169	11.169 (1.145)		200	1242			0.00- 45.87	13.59
	15 Chrysene					CAS #: 218-01-9		
11.211	11.211 (1.149)		226	9751	3.03622	156	80.00- 120.00	100.00(R)
11.211	11.211 (1.149)		200	1450			0.00- 44.88	14.87
	16 Benzo[b]fluoranthene					CAS #: 205-99-2		
12.169	12.177 (1.247)		252	35082	3.07014	157	80.00- 120.00	100.00(RM)
12.169	12.177 (1.247)		250	8578			0.00- 54.46	24.45
	17 Benzo[k]fluoranthene					CAS #: 207-08-9		
12.177	12.192 (1.248)		252	43563	3.37644	173	80.00- 120.00	100.00(RM)
12.185	12.192 (1.249)		250	9725			0.00- 50.29	22.32
$	18 Benzo(e)pyrene-d12					CAS #: 205440-82-0		
12.391	12.392 (1.270)		264	3169	0.30404	15.6	80.00- 120.00	100.00
12.383	12.392 (1.269)		132	422			0.00- 43.44	13.32
	19 Benzo[a]pyrene					CAS #: 50-32-8		
12.455	12.455 (1.277)		252	29193	3.05922	157	80.00- 120.00	100.00(R)
12.455	12.455 (1.277)		250	6647			0.00- 53.17	22.77
	20 Indeno[1,2,3-cd]pyrene					CAS #: 193-39-5		
13.529	13.529 (1.387)		276	25421	2.31285	118	80.00- 120.00	100.00(R)

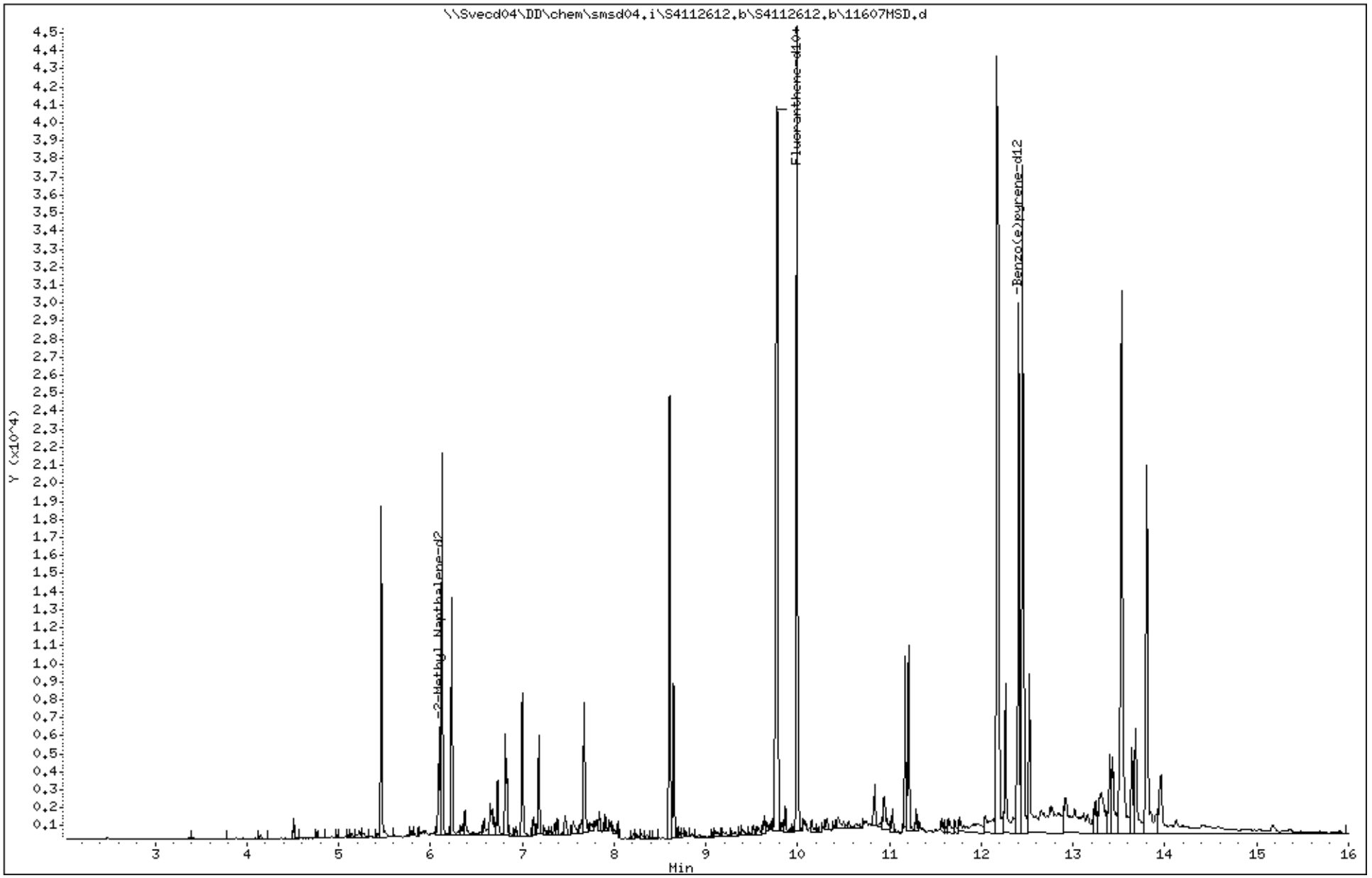
RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
20 Indeno[1,2,3-cd]pyrene (continued)								
13.529	13.529	(1.387)	138	5192			0.00- 51.29	20.42
21 Dibenz[a,h]anthracene							CAS #: 53-70-3	
13.529	13.537	(1.387)	278	12769	1.42030	72.8	80.00- 120.00	100.00(R)
13.529	13.537	(1.387)	138	5104			0.00- 56.10	39.97
22 Benzo[g,h,i]perylene							CAS #: 191-24-2	
13.807	13.807	(1.415)	276	24061	2.50411	128	80.00- 120.00	100.00(R)
13.807	13.807	(1.415)	138	4220			0.00- 46.85	17.54

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S4112612.b\S4112612.b\11607MSD.d
Date : 26-NOV-2012 21:09
Client ID: CV0043A-CSMSD
Sample Info: sim154209MSD

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



Raw Data Method 8270

SEQUENCE CHECK

SDG: 3507616 **Method:** 8270

Sample ID	Lab ID	Initial Cal Reference	File Name	Batch	Col	Instrument	Run Date	Dilution
DFTPP1135989	47137	N/A	DFTPP2.D	S41114SScal	1	SMSD04	11/14/12 19:35	1
STD1135504	47763	SMSD0411/15/12-1130~S41114SScal	8270CAL7.d	S41114SScal	1	SMSD04	11/14/12 22:40	1
STD1135503	47764	SMSD0411/15/12-1130~S41114SScal	8270CAL6.d	S41114SScal	1	SMSD04	11/14/12 23:01	1
STD1135502	47765	SMSD0411/15/12-1130~S41114SScal	8270CAL5.d	S41114SScal	1	SMSD04	11/14/12 23:22	1
STD1135500	47766	SMSD0411/15/12-1130~S41114SScal	8270CAL4.d	S41114SScal	1	SMSD04	11/14/12 23:43	1
STD1135499	47767	SMSD0411/15/12-1130~S41114SScal	8270CAL3.d	S41114SScal	1	SMSD04	11/15/12 00:04	1
STD1135498	47768	SMSD0411/15/12-1130~S41114SScal	8270CAL2.d	S41114SScal	1	SMSD04	11/15/12 00:25	1
STD1135497	47769	SMSD0411/15/12-1130~S41114SScal	8270CAL1.d	S41114SScal	1	SMSD04	11/15/12 00:46	1
SSC1135505	47770	SMSD0411/15/12-1130~S41114SScal	8270SEC.d	S41114SScal	1	SMSD04	11/15/12 01:07	1
DFTPP1135493	47137	N/A	DFTPP4.d	S41114SScal	1	SMSD04	11/15/12 01:43	1
STD1135522	47885	SMSD0411/15/12-1130~S41114SScal	BSCAL7.d	S41114SScal	1	SMSD04	11/15/12 02:01	1
STD1135521	47962	SMSD0411/15/12-1130~S41114SScal	BSCAL6.d	S41114SScal	1	SMSD04	11/15/12 02:22	1
STD1135520	47964	SMSD0411/15/12-1130~S41114SScal	BSCAL5.d	S41114SScal	1	SMSD04	11/15/12 02:43	1
DFTPP1135524	47137	N/A	DFTPP6.d	S41114SScal	1	SMSD04	11/15/12 07:22	1
STD1135518	47965	SMSD0411/15/12-1130~S41114SScal	BSCAL4.d	S41114SScal	1	SMSD04	11/15/12 07:40	1
STD1135517	47966	SMSD0411/15/12-1130~S41114SScal	BSCAL3.d	S41114SScal	1	SMSD04	11/15/12 08:01	1
STD1135516	47967	SMSD0411/15/12-1130~S41114SScal	BSCAL2.d	S41114SScal	1	SMSD04	11/15/12 08:22	1
STD1135515	47968	SMSD0411/15/12-1130~S41114SScal	BSCAL1.d	S41114SScal	1	SMSD04	11/15/12 08:43	1
SSC1135523	47969	SMSD0411/15/12-1130~S41114SScal	BSSEC.d	S41114SScal	1	SMSD04	11/15/12 09:04	1
STD1135513	47933	SMSD0411/15/12-1130~S41114SScal	AP9CAL7.d	S41114SScal	1	SMSD04	11/15/12 09:25	1
STD1135512	47934	SMSD0411/15/12-1130~S41114SScal	AP9CAL6.d	S41114SScal	1	SMSD04	11/15/12 09:46	1
STD1135511	47935	SMSD0411/15/12-1130~S41114SScal	AP9CAL5.d	S41114SScal	1	SMSD04	11/15/12 10:07	1
STD1135509	47936	SMSD0411/15/12-1130~S41114SScal	AP9CAL4.d	S41114SScal	1	SMSD04	11/15/12 10:28	1
STD1135508	47937	SMSD0411/15/12-1130~S41114SScal	AP9CAL3.d	S41114SScal	1	SMSD04	11/15/12 10:49	1
STD1135507	47938	SMSD0411/15/12-1130~S41114SScal	AP9CAL2.d	S41114SScal	1	SMSD04	11/15/12 11:09	1
STD1135506	47939	SMSD0411/15/12-1130~S41114SScal	AP9CAL1.d	S41114SScal	1	SMSD04	11/15/12 11:30	1
SSC1135514	47943	SMSD0411/15/12-1130~S41114SScal	AP9SEC.d	S41114SScal	1	SMSD04	11/15/12 11:51	1
DFTPP1135492	47137	N/A	DFTPP2.d	S4112012	1	SMSD04	11/20/12 15:52	1
CCV1136491	47766	SMSD0411/15/12-1130~S41114SScal	8270CAL4.d	S4112012	1	SMSD04	11/20/12 16:30	1
CCV1136493	47965	SMSD0411/15/12-1130~S41114SScal	BSCAL4.d	S4112012	1	SMSD04	11/20/12 16:53	1
CCV1136492	47936	SMSD0411/15/12-1130~S41114SScal	AP9CAL4.d	S4112012	1	SMSD04	11/20/12 17:14	1
154210MB	154210MB	SMSD0411/15/12-1130~S41114SScal	11608MB.d	S4112012	1	SMSD04	11/20/12 18:22	1
154211LCS	154211LCS	SMSD0411/15/12-1130~S41114SScal	11608LCS.d	S4112012	1	SMSD04	11/20/12 18:42	1
DFTPP1136634	47137	N/A	DFTPP2.d	S4112612	1	SMSD04	11/26/12 16:26	1

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SDG: 3507616 **Method:** 8270

Sample ID	Lab ID	Initial Cal Reference	File Name	Batch	Col	Instrument	Run Date	Dilution
CCV1137614	47766	SMSD0411/15/12-1130~S41114SScal	8270CAL4.d	S4112612	1	SMSD04	11/26/12 17:04	1
CCV1137617	47965	SMSD0411/15/12-1130~S41114SScal	BSCAL4.d	S4112612	1	SMSD04	11/26/12 17:25	1
CCV1137615	47936	SMSD0411/15/12-1130~S41114SScal	AP9CAL4.d	S4112612	1	SMSD04	11/26/12 17:46	1
CV0043C-CS	350761605	SMSD0411/15/12-1130~S41114SScal	616-05.d	S4112612	1	SMSD04	11/26/12 19:28	1
FM0126C-GS-SP	350761613	SMSD0411/15/12-1130~S41114SScal	616-13.d	S4112612	1	SMSD04	11/26/12 19:48	1

Signature: Mark W. Jacobs
Name: Mark Jacobs Title: Chemist 11/29/2012 6:17:05

Analyst Posted: mjacobs Date

Signature: Brian C. Spann
Name: Brian C. Spann Title: Lab Director 11/30/2012 10:57:0

Analyst Reviewed: bspann Date

3507616

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Extraction Method	3545

Extraction Log 8270 Soil Ext

Batch ID: 11608

Start: 11/20/2012 9:00:00 AM
End: 11/20/2012 8:40:06 PM

Final

Water Bath Temp: 70 °C

Thermometer ID: STBA **Balance ID:** P35923

Batch ID: 11608

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive
350761605	1	CV0043C-CS	11/14/2012 12:25:00 PM	SAMPLE	NONE	BROWN	SOIL	25.11 G	1 mL		0.5mL 8270_BNA-Surr_ST: 46658 @ 100:200 ug/mL;		N/A
350761613	1	FM0126C-GS-SP	11/14/2012 12:08:00 PM	SAMPLE	NONE	BROWN	SOIL	25.41 G	1 mL		0.5mL 8270_BNA-Surr_ST: 46658 @ 100:200 ug/mL;		N/A
154210MB		154210MB		MB	NONE	TAN	SAND	20.22 G	1 mL		0.5mL 8270_BNA-Surr_ST: 46658 @ 100:200 ug/mL;		N/A
154211LCS		154211LCS		LCS	NONE	TAN	SAND	20.19 G	1 mL		250uL 8270_BNA_SPK: 47848 @ 160 ug/mL; 250uL AP-9wkg_spk: 47798 @ AP9 160 ug/ml; 250uL SOWwkg_spk: 48547 @ 160 ug/mL : 0.5mL		N/A
154212MS	1	FM0126C-GS-SPMS		MS	NONE	BROWN	SOIL	25.23 G	1 mL		250uL 8270_BNA_SPK: 47848 @ 160 ug/mL; 250uL AP-9wkg_spk: 47798 @ AP9 160 ug/ml; 250uL SOWwkg_spk: 48547 @ 160 ug/mL : 0.5mL		N/A
154213MSD	1	FM0126C-GS-SPMSD		MSD	NONE	BROWN	SOIL	25.83 G	1 mL		250uL 8270_BNA_SPK: 47848 @ 160 ug/mL; 250uL AP-9wkg_spk: 47798 @ AP9 160 ug/ml; 250uL SOWwkg_spk: 48547 @ 160 ug/mL : 0.5mL		N/A

350761616

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Batch ID: 11608

Lab ID	Cont	Client ID	Date Samp	Type	Odor	Color	Sed	Initial	Final	pH	Standards	Cleanups	Archive

Initial Solvent 48452

Final Solvent 48452

Cellulose Filter 4973

NaSO4 48592

Hydromatrix 48593

Sand 48589

ASE # 2

Name: Agnes Tapolyai Title: Prep Tech 11/20/2012 8:40:06 PM

Analyst Posted atapolyai Date

11/20/2012 8:41:41 PM

Peer Reviewed rbennett Date

Signature: **Name:** Mark Jacobs **Title:** Chemist 11/29/2012 5:4

Analyst Reviewed mjacobs Date

3507616

Comments:

Sample Comments

Lab ID	Client ID	Comments
154210MB	154210MB	
154211LCS	154211LCS	
154212MS	FM0126C-GS-SPMS	
154213MSD	FM0126C-GS-SPMSD	
350761605	CV0043C-CS	
350761613	FM0126C-GS-SP	

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STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
40330	8270_Benzidines_STK	NSI Solutions Inc.	C-402-28	1/31/2014	1.5 ML	3/22/2011	jacker

2000 UG/ML: 3,3'-Dichlorobenzidine, Benzidine

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
40399	8270AP9Mix1_UltSTK	Ultra - SPCT-305	CH-0586	3/31/2013	1 ML	3/23/2011	jacker

1000 MG/L: 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 3-Methylcholanthrene, 7,12-Dimethylbenz(a)anthracene, Acetophenone, Chlorobenzilate, Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isosafrole, Kepone, Methylmethanesulfonate, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Safrole

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
42259	8270_BENZID_STK	Ultra Scientific	CG-3908	12/31/2012	1 ML	7/12/2011	jacker

2000 UG/ML: 3,3'-Dichlorobenzidine, Benzidine

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44064	8270_SEC_STK	NSI Q-2945	120511-25	12/5/2012	1 ML	12/8/2011	cabadia

150 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
300 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44396	8270_SOWSEC_STK	NSI Solutions C-601	C-601-13	8/31/2013	1 ML	1/3/2012	NSUBAR

2000 UG/ML: 1,1'-Biphenyl, Acetophenone, Atrazine, Benzaldehyde, Caprolactam

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44412	8270_PHENOL_STK	Ultra Scientific US-	CE-1838Z	9/30/2013	1 ML	1/4/2012	cabadia

2000 UG/ML: 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Chloro-3-methylphenol, 4-Nitrophenol, Pentachlorophenol, Phenol

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
44973	8270_SOW_STK	SUPELCO - 47514-	LB84222	4/30/2013	1 UG/	2/9/2012	cabadia

2000 UG/ML: 1,1'-Biphenyl, Acetophenone, Atrazine, Benzaldehyde, Caprolactam

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Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45131	8310_CALMX5_STK	RESTEK - 31011	079674	3/30/2018	1 ML	2/24/2012	cabadia

2000 UG/ML: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45160	8310_AS1MN_STK	AccuStandard S-51	B6040092-1B	2/22/2014	1 ML	2/27/2012	cabadia

2000 UG/ML: 1-Methylnaphthalene

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45687	8270BNSURRSTK	NSI Solutions, Inc.	C-376-49	1/31/2014	1 ML	4/5/2012	cabadia

5000 UG/ML: 2-Fluorobiphenyl, Nitrobenzene-d5, p-Terphenyl-d14

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
45900	8270_DFTPP_STK_1	NSI C-491	C-491-09	7/30/2014	1.5 ML	4/20/2012	cabadia

500 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46113	8270_TOXMIX1_STK	Ultra Scientific US-1	CJ-1309	5/31/2015	1 ML	5/11/2012	mjacobs

2000 UG/ML: 2,4,5-Trichlorophenol, 2-Methylphenol, 4-Methylphenol, Benzoic acid

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46114	8270_TOXMIX2_STK	Ultra Scientific - US	CH-1651	6/30/2014	1 ML	5/11/2012	mjacobs

2000 UG/ML: 2-Methylnaphthalene, 2-Nitroaniline, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Aniline, Benzyl alcohol, Dibenzofuran

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46115	8270_BNMIX1_STK	ChemService PP-H	462-77A	2/28/2013	1 ML	5/11/2012	mjacobs

2000 UG/ML: 2,2'-Oxybis(1-chloropropane), 4-Bromophenyl-phenylether, 4-Chlorophenyl-phenylether, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46304	8270_AP9Mix1_NSISTK	NSI Q-5238	100608-01	2/28/2013	1 ML	5/24/2012	cabadia

1000 MG/L: 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 3-Methylcholanthrene, 7,12-Dimethylbenz(a)anthracene, Acetophenone, Chlorobenzilate, Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isosafrole, Kepone, Methylmethanesulfonate, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Safrole

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46305	8270_AP9Mix2_NSISTK	NSI V-721	C-721-01	4/30/2013	1 ML	5/24/2012	cabadia

2000 MG/L: 0,0,0-Triethylphosphorothioate, 1-Naphthylamine, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, a,a-Dimethylphenethylamine, Aramite, Diallate (Avadex), Isodrin, Methapyriline, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Phenacetin, p-Phenylenediamine, Pronamide

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
46967	DCM	Honeywell	DG265	7/18/2013	200 L	7/18/2012	treuter

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47020	8270_BNMIX2_STK	Ultra Scientific US-1	CJ-0240	2/28/2013	1 ml	7/23/2012	cabadia

2000 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, Azobenzene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Isophorone, Nitrobenzene

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47137	DFTPP_std			1/31/2013	5 ML	7/31/2012	mjacobs

50 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol

COMPOSED OF:

45900: 500 UL 46967: 4500 UL

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47195	8270_Pyri_STK	NSI (W-271-06)	271-06-04	11/30/2013	1 ML	8/6/2012	cabadia

5000 UG/ML: Pyridine

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47235	8270_ACDSURR_STK	Ultra Scientific-ISM-	CC-2873	9/30/2014	1 ML	8/7/2012	cabadia

2000 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47264	8270_CARBZ_STK	SUPELCO 48076	LB92361	4/30/2015	1 UG/	8/8/2012	nsubar

2000 UG/ML: Carbazole

3507616

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47437	8270_AP9MIX2	CPI Z-116470-01	194807	8/25/2015	1 ML	8/24/2012	cabadia

2000 MG/L: 0,0,0-Triethylphosphorothioate, 1-Naphthylamine, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, a,a-Dimethylphenethylamine, Aramite, Diallate (Avadex), Isodrin, Methapyriline, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Phenacetin, p-Phenylenediamine, Pronamide

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47464	8270_IS_STK	Mitkem	SI120822A	8/22/2013	10 ML	8/27/2012	nsubar

2000 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47541	DCM	Honeywell	DG800	9/6/2013	200 L	9/6/2012	atapolyai

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47701	DFTPP_std			3/21/2013	5 ML	9/21/2012	nsubar

50 UG/ML: 4,4'-DDT, Benzidine, Decafluorotriphenyl phosphine(DFTPP), Pentachlorophenol

COMPOSED OF:

45900: 500 UL 47541: 4500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47708	DCM	Honeywell	DG937	9/24/2013	200 L	9/24/2012	treuter

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47762	8270_TOP			2/28/2013	5 ML	10/1/2012	nsubar

100 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
200 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

COMPOSED OF:

44412: 250 UL 45131: 250 UL 45160: 250 UL 45687: 100 UL 46113: 250 UL 46114: 250 UL 46115: 250 UL 47020: 250 UL 47195: 100 UL 47235: 500 UL 47264: 250 UL 47708: 2.3 ML

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47763	8270_CAL7			2/28/2013	1 ML	10/1/2012	nsubar

100 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
200 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47762: 1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47764	8270_CAL6			2/28/2013	1 ML	10/1/2012	nsubar

150 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
75 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine

COMPOSED OF:

47464: 20 UL 47708: 250 UL 47762: 750 UL

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47765	8270_CAL5			2/28/2013	1 ML	10/1/2012	nsubar

120 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
60 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine

COMPOSED OF:

47464: 20 UL 47708: 400 UL 47762: 600 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47766	8270_CAL4			2/28/2013	1 ML	10/1/2012	nsubar

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
90 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

COMPOSED OF:

47464: 20 UL 47708: 550 UL 47762: 450 UL

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47767	8270_CAL3			2/28/2013	1 ML	10/1/2012	nsubar

20 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
40 UG/ML: 1,4-Dichlorobenzene-d4, 2,4,6-Tribromophenol, 2-Fluorophenol, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10, Phenol-d5

COMPOSED OF:

47464: 20 UL 47708: 800 UL 47762: 200 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47768	8270_CAL2			2/28/2013	1 ML	10/1/2012	nsubar

10 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
20 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47708: 900 UL 47762: 100 UL

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47769	8270_CAL1			10/27/2012	1 ML	10/1/2012	nsubar

4 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
8 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

COMPOSED OF:

47464: 20 UL 47708: 960 UL 47762: 40 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47770	8270_SEC_WKG			12/5/2012	1 ML	10/1/2012	nsubar

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
90 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

COMPOSED OF:

44064: 300 UL 47464: 20 UL 47708: 700 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47877	DCM	Honeywell	DG937	10/8/2013	200 L	10/8/2012	rbennett

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47881	8270BS_TOP			4/8/2013	5 ML	10/8/2012	mjacobs

100 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam

COMPOSED OF:

40330: 250 UL 44973: 250 UL 47877: 4500 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47885	8270BS_CAL7			4/8/2013	1 ML	10/8/2012	mjacobs

100 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47881: 1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47930	AP9_TOP			3/31/2013	5 ML	10/9/2012	mjacobs

100 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole

COMPOSED OF:

40399: 500 UL 47437: 250 UL 47877: 4250 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47933	AP9_CAL7			3/31/2013	1 ML	10/9/2012	mjacobs

100 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

STANDARDS LOG

COMPOSED OF:

47464: 20 UL 47877: 0 ML 47930: 1 ML

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47934	AP9_CAL6			3/31/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
75 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole

COMPOSED OF:

47464: 20 UL 47877: 250 UL 47930: 750 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47935	AP9_CAL5			3/31/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
60 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole

COMPOSED OF:

47464: 20 UL 47877: 400 UL 47930: 600 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47936	AP9_CAL4			3/31/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole

STANDARDS LOG

COMPOSED OF:

47464: 20 UL 47877: 550 UL 47930: 450 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47937	AP9_CAL3			3/31/2013	1 ML	10/9/2012	mjacobs

20 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47877: 800 UL 47930: 200 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47938	AP9_CAL2			3/31/2013	1 ML	10/9/2012	mjacobs

10 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47877: 900 UL 47930: 100 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47939	AP9_CAL1			3/31/2013	1 ML	10/9/2012	mjacobs

4 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

STANDARDS LOG

COMPOSED OF:

47464: 20 UL 47877: 960 UL 47930: 40 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47943	8270_AP9SEC			2/28/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 0,0,0-Triethylphosphorothioate, 1,2,4,5-Tetrachlorobenzene, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 1,4-Naphthoquinone, 1-Naphthylamine, 2,3,4,6-Tetrachlorophenol, 2,6-Dichlorophenol, 2-Acetylaminofluorene, 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, 3-Methylcholanthrene, 4-Aminobiphenyl, 4-Nitroquinoline-1-oxide, 5-Nitro-o-toluidine, 7,12-Dimethylbenz(a)anthracene, a,a-Dimethylphenethylamine, Acetophenone, Aramite, Chlorobenzilate, Diallate (Avadex), Dibenz(a,j)acridine, Dinoseb, Ethyl methanesulfonate, Hexachloropropene, Isodrin, Isosafrole, Kepone, Methapyriline, Methylmethanesulfonate, N-Nitrosodibutylamine, N-Nitrosodiethylamine, N-Nitrosomethylethylamine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosopyrrolidine, o-Toluidine, p-Dimethylaminoazobenzene, Pentachlorobenzene, Pentachloroethane, Pentachloronitrobenzene(PCNB), Phenacetin, p-Phenylenediamine, Pronamide, Safrole

COMPOSED OF:

46304: 45 UL 46305: 22.5 UL 47464: 20 UL 47877: 932.5 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47962	8270BS_CAL6			4/8/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
75 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam

COMPOSED OF:

47464: 20 UL 47877: 250 UL 47881: 750 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47964	8270BS_CAL5			4/8/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
60 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam

COMPOSED OF:

47464: 20 UL 47877: 400 UL 47881: 600 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47965	8270BS_CAL4			4/8/2013	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam

STANDARDS LOG

COMPOSED OF:

47464: 20 UL 47877: 550 UL 47881: 450 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47966	8270BS_CAL3			4/8/2013	1 ML	10/9/2012	mjacobs

20 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47877: 800 UL 47881: 200 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47967	8270BS_CAL2			4/8/2013	1 ML	10/9/2012	mjacobs

10 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47877: 900 UL 47881: 100 UL

3507616

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47968	8270BS_CAL1			4/8/2013	1 ML	10/9/2012	mjacobs

4 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam
40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10

COMPOSED OF:

47464: 20 UL 47877: 960 UL 47881: 40 UL

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
47969	8270BS_SEC_WKG			12/31/2012	1 ML	10/9/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 1,1'-Biphenyl, 3,3'-Dichlorobenzidine, Acetophenone, Atrazine, Benzaldehyde, Benzidine, Caprolactam

COMPOSED OF:

42259: 22.5 UL 44396: 22.5 UL 47464: 20 UL 47877: 955 UL

STANDARDS LOG

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
48170	DCM	Honeywell	DG937	10/22/2013	200 L	10/22/2012	atapolyai

Standard ID	Type	Manufacturer	Mfg Lot	Expires	Volume	Created on	Created by
48294	8270_CAL4			2/28/2013	1 ML	11/1/2012	mjacobs

40 UG/ML: 1,4-Dichlorobenzene-d4, Acenaphthene-d10, Chrysene-d12, Naphthalene-d8, Perylene-d12, Phenanthrene-d10
45 UG/ML: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1-Methylnaphthalene, 2,2'-Oxybis(1-chloropropane), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Methylphenol, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Aniline, Anthracene, Azobenzene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodimethylamine, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, p-Terphenyl-d14, Pyrene, Pyridine
90 UG/ML: 2,4,6-Tribromophenol, 2-Fluorophenol, Phenol-d5

COMPOSED OF:

47464: 20 UL 47762: 450 UL 48170: 550 UL

3507616

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D
Report Date: 26-Nov-2012 18:03

PEL Laboratories, Inc.

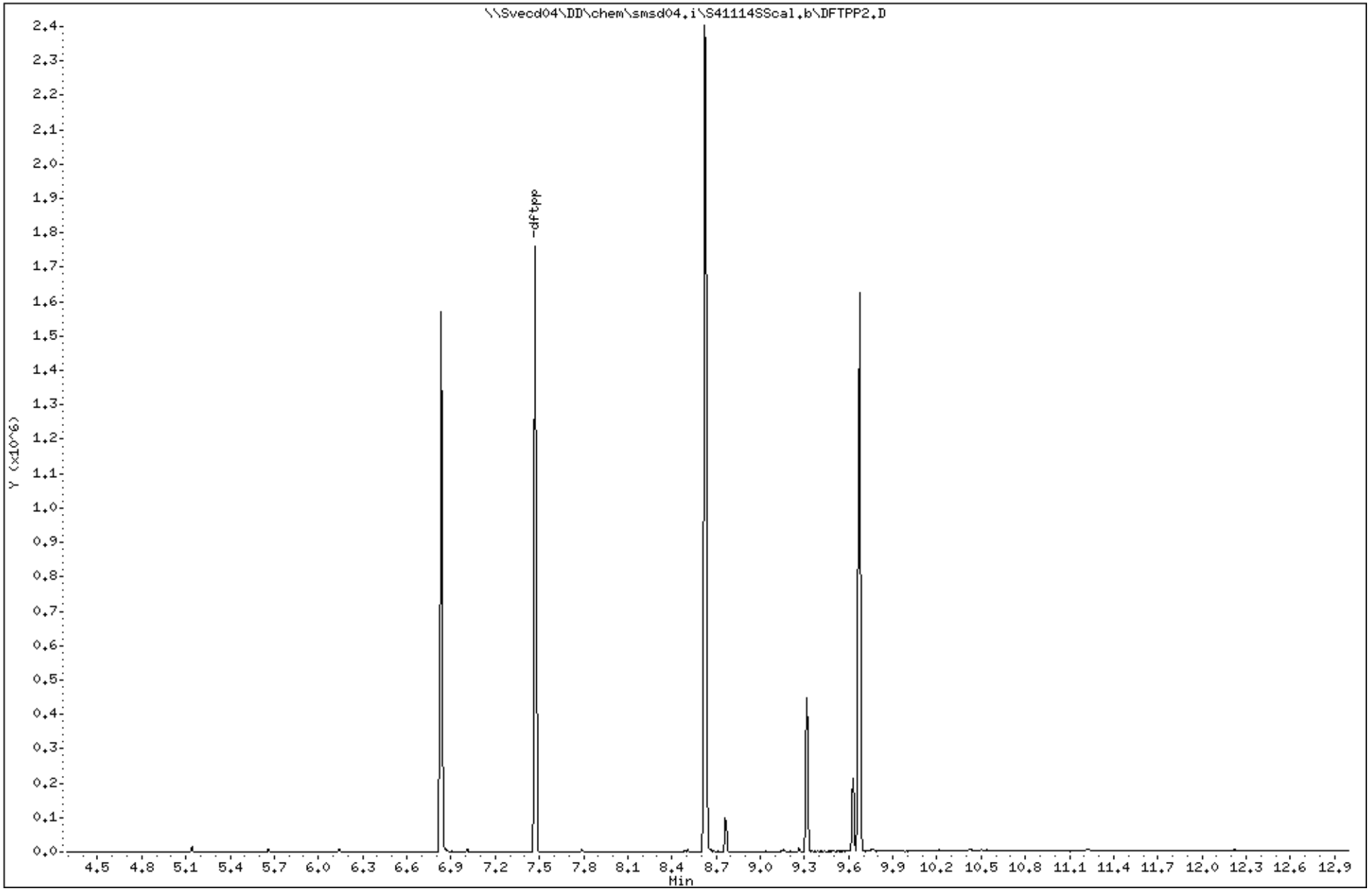
Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D
Lab Smp Id: 47137 Client Smp ID: DFTPP2
Inj Date : 14-NOV-2012 19:35
Operator : MJ Inst ID: smsd04.i
Smp Info : 47137
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DoDTUN.m
Meth Date : 06-Aug-2012 11:47 Quant Type: ISTD
Cal Date : 23-MAR-2009 02:58 Cal File: AP9CAL1.D
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.474	7.410	(0.000)	198	160768			0.00- 100.00	100.00
7.474	7.410	(0.000)	51	63144			10.00- 80.00	39.28
7.474	7.410	(0.000)	68	0	0.0	0.0	0.00- 2.00	0.00
7.474	7.410	(0.000)	69	80600			0.00- 0.00	50.13
7.474	7.410	(0.000)	70	0	0.0	0.0	0.00- 2.00	0.00
7.474	7.410	(0.000)	127	76144			10.00- 80.00	47.36
7.474	7.410	(0.000)	197	0	0.0	0.0	0.00- 2.00	0.00
7.474	7.410	(0.000)	199	11183			5.00- 9.00	6.96
7.474	7.410	(0.000)	275	40952			10.00- 60.00	25.47
7.474	7.410	(0.000)	365	5692			1.00- 0.00	3.54
7.474	7.410	(0.000)	441	21680			0.01- 24.00	16.90
7.474	7.410	(0.000)	442	128272			50.00- 0.00	79.79
7.474	7.410	(0.000)	443	25920			15.00- 24.00	20.21

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D
Date : 14-NOV-2012 19:35
Client ID: DFTPP2
Instrument: smsd04.i
Sample Info: 47137
Volume Injected (uL): 1.0
Operator: MJ
Column phase:
Column diameter: 2.00



491

3507616

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D

Date : 14-NOV-2012 19:35

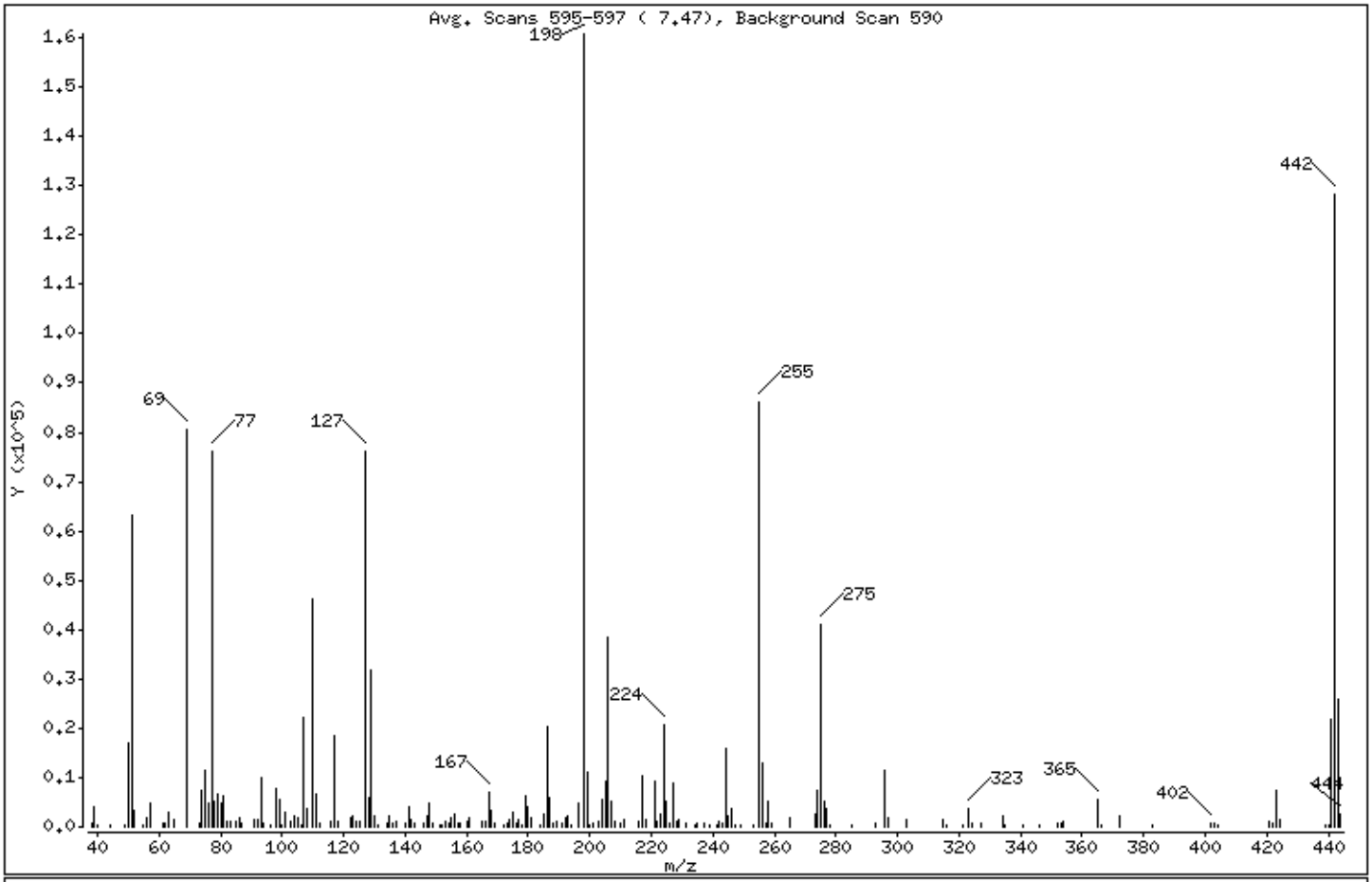
Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.28
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.13
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	47.36
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 60.00% of mass 198	25.47
365	Greater than 1.00% of mass 198	3.54
441	0.01 - 24.00% of mass 442	13.49 (16.90)
442	Greater than 50.00% of mass 198	79.79
443	15.00 - 24.00% of mass 442	16.12 (20.21)

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D

Date : 14-NOV-2012 19:35

Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 595-597 (7.47), Background Scan 590
Location of Maximum: 198.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	910	117.00	18576	185.00	2429	256.00	13046
39.00	4153	118.00	1122	186.00	20160	257.00	902
40.00	236	122.00	1714	187.00	5897	258.00	5084
44.00	453	123.00	2400	188.00	566	259.00	681
49.00	421	124.00	992	189.00	1001	265.00	1840
50.00	17128	125.00	1027	191.00	584	273.00	2539
51.00	63144	127.00	76144	192.00	1867	274.00	7462
52.00	3208	128.00	5903	193.00	2047	275.00	40952
55.00	280	129.00	31840	194.00	227	276.00	5331
56.00	1896	130.00	2396	196.00	4817	277.00	3615
57.00	4860	131.00	229	198.00	160768	278.00	525
61.00	769	134.00	797	199.00	11183	285.00	512
62.00	914	135.00	2365	200.00	543	293.00	744
63.00	3063	136.00	707	201.00	570	296.00	11478
65.00	1458	137.00	1016	203.00	989	297.00	1700
69.00	80600	140.00	612	204.00	5569	303.00	1356
73.00	716	141.00	4057	205.00	9144	315.00	1444
74.00	7389	142.00	1428	206.00	38584	316.00	527
75.00	11569	143.00	663	207.00	5073	321.00	239
76.00	4743	146.00	658	208.00	1105	323.00	3708
77.00	76048	147.00	2285	210.00	690	324.00	585
78.00	5210	148.00	4809	211.00	1447	327.00	808
79.00	6563	149.00	879	216.00	1071	334.00	2264
80.00	4810	151.00	549	217.00	10264	335.00	320
81.00	6197	152.00	248	218.00	1330	341.00	258
82.00	1165	153.00	1157	221.00	9191	346.00	254
83.00	1017	154.00	821	222.00	1017	352.00	828
85.00	965	155.00	1916	223.00	2455	353.00	561
86.00	1722	156.00	2682	224.00	20648	354.00	950
87.00	729	157.00	563	225.00	5275	365.00	5692
91.00	1296	158.00	590	226.00	573	366.00	232
92.00	1642	160.00	1212	227.00	8987	372.00	2049
93.00	9928	161.00	1712	228.00	1011	383.00	240
94.00	631	165.00	1218	229.00	1493	402.00	833
96.00	273	166.00	1209	231.00	570	403.00	575

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\DFTPP2.D

Date : 14-NOV-2012 19:35

Client ID: DFTPP2 Instrument: smsd04.i

Sample Info: 47137

Volume Injected (uL): 1.0 Operator: MJ

Column phase: Column diameter: 2.00

Data File: DFTPP2.D
Spectrum: Avg. Scans 595-597 (7.47), Background Scan 590
Location of Maximum: 198.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	7775	167.00	7202	234.00	500	404.00	222
99.00	5512	168.00	3358	235.00	626	421.00	1109
100.00	333	169.00	629	237.00	898	422.00	888
101.00	3060	172.00	541	239.00	224	423.00	7248
103.00	959	173.00	806	241.00	271	424.00	1605
104.00	2143	174.00	1497	242.00	1026	439.00	314
105.00	1970	175.00	3068	243.00	609	440.00	254
106.00	538	176.00	730	244.00	16074	441.00	21680
107.00	22328	177.00	1606	245.00	2224	442.00	128272
108.00	3678	178.00	484	246.00	3578	443.00	25920
110.00	46328	179.00	6155	247.00	489	444.00	2496
111.00	6632	180.00	4188	249.00	311		
112.00	593	181.00	1907	253.00	448		
116.00	1011	184.00	249	255.00	86256		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 16:38

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 16:54

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 11/26/2012 18:04

Datafile Analyzed: //Svecd04/DD/chem/smsd04.i/S41114SScal.b/DFTPP2.D

PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d
Lab Smp Id: 47763 Client Smp ID: 8270CAL7
Inj Date : 14-NOV-2012 22:40 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47763
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270bcs.m
Meth Date : 26-Nov-2012 13:58 smsd04.i Quant Type: ISTD
Cal Date : 15-OCT-2012 13:17 Cal File: AP9CAL7.d
Als bottle: 21 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8270caln.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Pyridine						CAS #: 110-86-1		
2.227	2.228	(0.518)	79	392424	100.000		80.00- 120.00	100.00(Q)
2.227	2.228	(0.518)	52	254725			35.30- 95.30	64.91
M 16 Cresols (Total)						CAS #: 1319-77-3		
				699726	200.000			(a)
1 N-Nitrosodimethylamine						CAS #: 62-75-9		
2.220	2.220	(0.517)	42	174816	100.000		80.00- 120.00	100.00(Q)
2.221	2.220	(0.517)	74	226898			97.07- 157.07	129.79
2.220	2.221	(0.517)	44	8149			0.00- 34.98	4.66
$ 6 2-Fluorophenol (SURR)						CAS #: 367-12-4		
3.251	3.246	(0.756)	112	716459	200.000		80.00- 120.00	100.00(aQ)
3.251	3.246	(0.756)	64	431869			32.62- 92.62	60.28
$ 11 Phenol-d5 (SURR)						CAS #: 4165-62-2		
4.016	4.006	(0.934)	99	912656	200.000		80.00- 120.00	100.00(Q)
4.016	4.006	(0.934)	42	182402			0.00- 49.74	19.99
4.016	4.006	(0.934)	71	388755			12.66- 72.66	42.60

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	13 Phenol					CAS #: 108-95-2		
4.026	4.016	(0.936)	94	521487	100.000		80.00- 120.00	100.00(Q)
4.026	4.016	(0.937)	65	262714			0.94- 60.94	50.38
4.025	4.015	(0.936)	66	304324			21.40- 81.40	58.36
	10 Aniline					CAS #: 62-53-3		
4.048	4.046	(0.942)	93	466624	100.000		80.00- 120.00	100.00(Q)
4.026	4.046	(0.937)	65	262712			0.00- 50.97	56.30
4.048	4.046	(0.942)	66	162494			12.95- 72.95	34.82
	14 Bis(2-Chloroethyl)ether					CAS #: 111-44-4		
4.098	4.094	(0.953)	93	343769	100.000		80.00- 120.00	100.00(Q)
4.098	4.093	(0.953)	63	253003			43.04- 103.04	73.60
4.098	4.094	(0.953)	95	110658			1.90- 61.90	32.19
	15 2-Chlorophenol					CAS #: 95-57-8		
4.146	4.142	(0.964)	128	336285	100.000		80.00- 120.00	100.00(Q)
4.145	4.142	(0.964)	64	180799			24.14- 84.14	53.76
4.146	4.142	(0.964)	130	110411			2.15- 62.15	32.83
	17 1,3-Dichlorobenzene					CAS #: 541-73-1		
4.269	4.267	(0.993)	146	401520	100.000		80.00- 120.00	100.00(Q)
4.269	4.267	(0.993)	148	256523			34.15- 94.15	63.89
4.269	4.267	(0.993)	111	180889			14.34- 74.34	45.05
*	18 1,4-Dichlorobenzene-d4					CAS #: 3855-82-1		
4.299	4.294	(1.000)	152	105070	40.0000		80.00- 120.00	100.00(Q)
4.299	4.294	(1.000)	115	66583			34.81- 94.81	63.37
4.300	4.294	(1.000)	150	209585			126.51- 186.51	199.47
	19 1,4-Dichlorobenzene					CAS #: 106-46-7		
4.313	4.311	(1.003)	146	415315	100.000		80.00- 120.00	100.00(Q)
4.313	4.311	(1.003)	148	266061			36.10- 96.10	64.06
4.312	4.311	(1.003)	111	180255			14.95- 74.95	43.40
	21 Benzyl alcohol					CAS #: 100-51-6		
4.436	4.429	(1.032)	108	230377	100.000		80.00- 120.00	100.00(Q)
4.436	4.429	(1.032)	79	359168			126.03- 186.03	155.90
4.436	4.429	(1.032)	77	241685			76.75- 136.75	104.91
	20 1,2-Dichlorobenzene					CAS #: 95-50-1		
4.480	4.478	(1.042)	146	387728	100.000		80.00- 120.00	100.00(Q)
4.481	4.478	(1.042)	148	244881			33.36- 93.36	63.16
4.480	4.478	(1.042)	111	179775			18.07- 78.07	46.37
	22 2-Methylphenol					CAS #: 95-48-7		
4.543	4.538	(1.057)	107	277051	100.000		80.00- 120.00	100.00(Q)
4.543	4.538	(1.057)	108	319886			83.56- 143.56	115.46
4.542	4.538	(1.057)	79	154995			27.79- 87.79	55.94
	23 2,2'-oxybis(1-chloropropane)					CAS #: 108-60-1		
4.573	4.571	(1.064)	45	430468	100.000		80.00- 120.00	100.00(Q)
4.573	4.571	(1.064)	77	82351			0.00- 47.34	19.13

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
23 2,2'-oxybis(1-chloropropane) (continued)								
4.573	4.571	(1.064)	121	119016			0.00- 56.71	27.65
28 4-Methylphenol						CAS #: 106-44-5		
4.679	4.668	(1.088)	107	422675	100.000		80.00- 120.00	100.00(Q)
4.679	4.668	(1.088)	108	342899			51.88- 111.88	81.13
4.678	4.668	(1.088)	79	117348			0.00- 57.76	27.76
26 N-Nitrosodinpropylamine						CAS #: 621-64-7		
4.710	4.699	(1.096)	70	291667	100.000		80.00- 120.00	100.00(Q)
4.710	4.699	(1.096)	42	153575			21.53- 81.53	52.65
4.711	4.699	(1.096)	130	62722			0.00- 51.40	21.50
30 Hexachloroethane						CAS #: 67-72-1		
4.754	4.753	(1.106)	117	173889	100.000		80.00- 120.00	100.00(Q)
4.755	4.754	(1.106)	201	163743			63.39- 123.39	94.17
4.755	4.754	(1.106)	199	104929			26.40- 86.40	60.34
$ 31 Nitrobenzene-d5 (SURR)						CAS #: 4165-60-0		
4.824	4.818	(0.882)	82	458112	100.000		80.00- 120.00	100.00(Q)
4.824	4.818	(0.882)	128	166463			6.68- 66.68	36.34
4.824	4.818	(0.882)	54	223126			19.12- 79.12	48.71
32 Nitrobenzene						CAS #: 98-95-3		
4.841	4.834	(0.885)	77	446670	100.000		80.00- 120.00	100.00(Q)
4.841	4.835	(0.885)	123	167020			6.73- 66.73	37.39
4.841	4.834	(0.885)	65	65711			0.00- 43.84	14.71
34 Isophorone						CAS #: 78-59-1		
5.056	5.046	(0.924)	82	779079	100.000		80.00- 120.00	100.00(Q)
5.057	5.047	(0.924)	138	124059			0.00- 45.91	15.92
5.057	5.046	(0.924)	95	62927			0.00- 37.77	8.08
35 2-Nitrophenol						CAS #: 88-75-5		
5.131	5.128	(0.938)	139	188548	100.000		80.00- 120.00	100.00(Q)
5.130	5.127	(0.938)	65	118218			33.65- 93.65	62.70
5.130	5.127	(0.938)	109	83564			13.08- 73.08	44.32
36 2,4-Dimethylphenol						CAS #: 105-67-9		
5.165	5.158	(0.944)	122	278642	100.000		80.00- 120.00	100.00(Q)
5.164	5.158	(0.944)	107	382412			100.42- 160.42	137.24
5.165	5.158	(0.944)	121	171796			27.73- 87.73	61.65
38 Bis(2-Chloroethoxy)methane						CAS #: 111-91-1		
5.256	5.252	(0.961)	93	449369	100.000		80.00- 120.00	100.00(Q)
5.256	5.252	(0.961)	95	146690			2.66- 62.66	32.64
5.257	5.252	(0.961)	123	56916			0.00- 43.79	12.67
40 Benzoic Acid						CAS #: 65-85-0		
5.306	5.267	(0.970)	122	199985	100.000		80.00- 120.00	100.00(Q)
5.307	5.267	(0.970)	105	286586			114.27- 174.27	143.30
5.306	5.267	(0.970)	77	247713			94.81- 154.81	123.87

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
41 2,4-Dichlorophenol							CAS #: 120-83-2	
5.350	5.342	(0.978)	162	328720	100.000		80.00- 120.00	100.00(Q)
5.350	5.342	(0.978)	164	210224			34.34- 94.34	63.95
5.349	5.342	(0.978)	98	126747			8.30- 68.30	38.56
42 1,2,4-Trichlorobenzene							CAS #: 120-82-1	
5.430	5.427	(0.993)	180	361380	100.000		80.00- 120.00	100.00(Q)
5.430	5.427	(0.993)	182	344774			69.17- 129.17	95.40
5.430	5.427	(0.993)	145	107238			0.41- 60.41	29.67
* 43 Naphthalene-d8							CAS #: 1146-65-2	
5.470	5.463	(1.000)	136	353834	40.0000		80.00- 120.00	100.00(Q)
5.470	5.463	(1.000)	68	24970			0.00- 37.51	7.06
44 Naphthalene							CAS #: 91-20-3	
5.489	5.486	(1.004)	128	972608	100.000		80.00- 120.00	100.00(Q)
5.489	5.485	(1.004)	129	106452			0.00- 40.78	10.95
5.489	5.486	(1.004)	127	126273			0.00- 42.17	12.98
45 4-Chloroaniline							CAS #: 106-47-8	
5.557	5.552	(1.016)	127	398494	100.000		80.00- 120.00	100.00(Q)
5.557	5.552	(1.016)	129	128021			2.29- 62.29	32.13
5.556	5.551	(1.016)	65	149190			8.57- 68.57	37.44
48 Hexachlorobutadiene							CAS #: 87-68-3	
5.656	5.654	(1.034)	225	258102	100.000		80.00- 120.00	100.00(Q)
5.656	5.654	(1.034)	223	162649			31.81- 91.81	63.02
5.656	5.654	(1.034)	227	165418			34.78- 94.78	64.09
51 4-Chloro-3-methylphenol							CAS #: 59-50-7	
6.012	6.009	(1.099)	107	356179	100.000		80.00- 120.00	100.00(Q)
6.013	6.009	(1.099)	144	82706			0.00- 53.54	23.22
6.013	6.009	(1.099)	142	261160			43.91- 103.91	73.32
53 2-Methylnaphthalene							CAS #: 91-57-6	
6.145	6.141	(1.123)	142	668832	100.000		80.00- 120.00	100.00(Q)
6.145	6.141	(1.123)	141	572330			55.50- 115.50	85.57
54 1-Methylnaphthalene							CAS #: 90-12-0	
6.250	6.247	(1.142)	142	619216	100.000		80.00- 120.00	100.00(Q)
6.250	6.247	(1.142)	141	552616			58.78- 118.78	89.24
55 Hexachlorocyclopentadiene							CAS #: 77-47-4	
6.361	6.360	(0.887)	237	270324	100.000		80.00- 120.00	100.00(Q)
6.361	6.360	(0.887)	235	167615			33.42- 93.42	62.01
6.362	6.360	(0.887)	272	32612			0.00- 41.88	12.06
57 2,4,6-Trichlorophenol							CAS #: 88-06-2	
6.441	6.438	(0.898)	196	250990	100.000		80.00- 120.00	100.00(Q)
6.441	6.438	(0.898)	198	243328			67.54- 127.54	96.95
6.441	6.438	(0.898)	200	76184			1.18- 61.18	30.35
58 2,4,5-Trichlorophenol							CAS #: 95-95-4	
6.477	6.472	(0.903)	196	275406	100.000		80.00- 120.00	100.00(Q)

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	58 2,4,5-Trichlorophenol (continued)							
6.478	6.472	(0.903)	198	266229			64.33- 124.33	96.67
6.477	6.472	(0.903)	97	162654			27.55- 87.55	59.06
$ 59	2-Fluorobiphenyl (SURR)					CAS #: 321-60-8		
6.519	6.514	(0.909)	172	846354	100.000		80.00- 120.00	100.00(Q)
6.519	6.514	(0.909)	171	292844			4.90- 64.90	34.60
	62 2-Chloronaphthalene					CAS #: 91-58-7		
6.615	6.610	(0.922)	162	706292	100.000		80.00- 120.00	100.00(Q)
6.615	6.610	(0.922)	164	231057			1.75- 61.75	32.71
6.614	6.610	(0.922)	127	276758			8.71- 68.71	39.18
	63 2-Nitroaniline					CAS #: 88-74-4		
6.747	6.741	(0.941)	65	247214	100.000		80.00- 120.00	100.00(Q)
6.747	6.741	(0.941)	92	161516			35.13- 95.13	65.33
6.747	6.741	(0.941)	138	222265			59.53- 119.53	89.91
	65 Dimethylphthalate					CAS #: 131-11-3		
6.956	6.950	(0.970)	163	810184	100.000		80.00- 120.00	100.00(Q)
6.957	6.950	(0.970)	194	49338			0.00- 35.76	6.09
6.956	6.949	(0.970)	164	82842			0.00- 39.66	10.23
	68 Acenaphthylene					CAS #: 208-96-8		
7.024	7.020	(0.979)	152	1135023	100.000		80.00- 120.00	100.00(Q)
7.024	7.020	(0.979)	151	227764			0.00- 50.20	20.07
7.024	7.020	(0.979)	153	148105			0.00- 43.02	13.05
	67 2,6-Dinitrotoluene					CAS #: 606-20-2		
7.022	7.015	(0.979)	165	197089	100.000		80.00- 120.00	100.00(Q)
7.022	7.015	(0.979)	89	132419			39.45- 99.45	67.19
7.022	7.016	(0.979)	63	196836			74.66- 134.66	99.87
	69 3-Nitroaniline					CAS #: 99-09-2		
7.155	7.146	(0.998)	138	180377	100.000		80.00- 120.00	100.00(Q)
7.155	7.146	(0.998)	108	27205			0.00- 42.35	15.08
7.155	7.145	(0.998)	92	233460			104.62- 164.62	129.43
* 70	Acenaphthene-d10					CAS #: 15067-26-2		
7.172	7.167	(1.000)	164	229070	40.0000		80.00- 120.00	100.00(Q)
7.172	7.168	(1.000)	162	215669			66.12- 126.12	94.15
7.172	7.167	(1.000)	160	97528			13.21- 73.21	42.58
	71 Acenaphthene					CAS #: 83-32-9		
7.206	7.201	(1.005)	154	643020	100.000		80.00- 120.00	100.00(Q)
7.206	7.200	(1.005)	153	684148			77.18- 137.18	106.40
7.206	7.200	(1.005)	152	328975			21.21- 81.21	51.16
	72 2,4-Dinitrophenol					CAS #: 51-28-5		
7.250	7.243	(1.011)	184	122850	100.000		80.00- 120.00	100.00(Q)
7.249	7.242	(1.011)	63	92703			48.18- 108.18	75.46
7.250	7.242	(1.011)	154	80607			33.05- 93.05	65.61

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
74 4-Nitrophenol						CAS #: 100-02-7		
7.313	7.303	(1.020)	109	161695	100.000		80.00- 120.00	100.00(Q)
7.313	7.303	(1.020)	139	150173			61.80- 121.80	92.87
7.313	7.303	(1.020)	65	182785			80.41- 140.41	113.04
75 Dibenzofuran						CAS #: 132-64-9		
7.360	7.355	(1.026)	168	986684	100.000		80.00- 120.00	100.00(Q)
7.360	7.355	(1.026)	139	405946			10.69- 70.69	41.14
76 2,4-Dinitrotoluene						CAS #: 121-14-2		
7.400	7.392	(1.032)	165	244710	100.000		80.00- 120.00	100.00(Q)
7.400	7.392	(1.032)	63	127841			23.55- 83.55	52.24
7.400	7.392	(1.032)	89	200447			51.82- 111.82	81.91
80 Diethylphthalate						CAS #: 84-66-2		
7.647	7.640	(1.066)	149	827266	100.000		80.00- 120.00	100.00(Q)
7.647	7.640	(1.066)	177	183366			0.00- 51.79	22.17
7.647	7.640	(1.066)	150	102638			0.00- 42.28	12.41
81 Fluorene						CAS #: 86-73-7		
7.696	7.690	(1.073)	166	902841	100.000		80.00- 120.00	100.00(Q)
7.696	7.690	(1.073)	165	837162			61.04- 121.04	92.73
7.696	7.690	(1.073)	167	121632			0.00- 43.06	13.47
82 4-Chlorophenyl-phenylether						CAS #: 7005-72-3		
7.695	7.690	(1.073)	204	477940	100.000		80.00- 120.00	100.00(Q)
7.696	7.690	(1.073)	206	158870			2.85- 62.85	33.24
7.695	7.690	(1.073)	141	287777			29.43- 89.43	60.21
84 4-Nitroaniline						CAS #: 100-01-6		
7.765	7.750	(1.083)	138	164465	100.000		80.00- 120.00	100.00(Q)
7.764	7.749	(1.083)	92	95924			30.30- 90.30	58.32
7.764	7.749	(1.083)	108	187900			85.44- 145.44	114.25
85 4,6-Dinitro-2-methylphenol						CAS #: 534-52-1		
7.803	7.790	(0.907)	198	173788	100.000		80.00- 120.00	100.00(Q)
7.822	7.789	(0.909)	51	111329			21.07- 81.07	64.06
7.802	7.789	(0.907)	105	78100			14.43- 74.43	44.94
86 N-Nitrosodiphenylamine						CAS #: 86-30-6		
7.823	7.814	(0.909)	169	542509	100.000		80.00- 120.00	100.00(Q)
7.823	7.815	(0.909)	168	376218			41.33- 101.33	69.35
7.823	7.815	(0.909)	167	191113			5.93- 65.93	35.23
87 1,2-Diphenylhydrazine						CAS #: 122-66-7		
7.851	7.845	(1.095)	77	1001320	100.000		80.00- 120.00	100.00(Q)
7.851	7.845	(1.095)	105	127710			0.00- 44.08	12.75
7.851	7.845	(1.095)	182	214286			0.00- 53.69	21.40
$ 88 2,4,6-Tribromophenol (SURR)						CAS #: 118-79-6		
7.953	7.946	(1.109)	330	323475	200.000		80.00- 120.00	100.00(Q)
7.953	7.946	(1.109)	332	314831			65.21- 125.21	97.33
7.952	7.945	(1.109)	141	124942			10.78- 70.78	38.62

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
93 4-Bromophenylphenylether						CAS #: 101-55-3		
8.168	8.163	(0.949)	248	270409	100.000		80.00- 120.00	100.00(Q)
8.168	8.163	(0.949)	250	257712			66.63- 126.63	95.30
8.167	8.162	(0.949)	141	205129			49.24- 109.24	75.86
94 Hexachlorobenzene						CAS #: 118-74-1		
8.313	8.307	(0.966)	284	304917	100.000		80.00- 120.00	100.00(Q)
8.312	8.307	(0.966)	142	116939			10.52- 70.52	38.35
8.313	8.307	(0.966)	249	95397			1.60- 61.60	31.29
96 Pentachlorophenol						CAS #: 87-86-5		
8.486	8.480	(0.986)	266	199373	100.000		80.00- 120.00	100.00(Q)
8.486	8.481	(0.986)	264	126886			33.54- 93.54	63.64
8.486	8.481	(0.986)	268	127425			34.39- 94.39	63.91
* 100 Phenanthrene-d10						CAS #: 1517-22-2		
8.607	8.604	(1.000)	188	408314	40.0000		80.00- 120.00	100.00(Q)
8.606	8.604	(1.000)	94	43195			0.00- 40.39	10.58
8.606	8.603	(1.000)	80	45934			0.00- 41.55	11.25
101 Phenanthrene						CAS #: 85-01-8		
8.632	8.626	(1.003)	178	1162105	100.000		80.00- 120.00	100.00(Q)
8.632	8.626	(1.003)	179	177632			0.00- 45.20	15.29
8.633	8.626	(1.003)	176	223413			0.00- 48.69	19.22
103 Anthracene						CAS #: 120-12-7		
8.676	8.670	(1.008)	178	1043737	100.000		80.00- 120.00	100.00(Q)
8.676	8.670	(1.008)	179	160194			0.00- 45.53	15.35
8.676	8.670	(1.008)	176	192897			0.00- 49.11	18.48
104 Carbazole						CAS #: 86-74-8		
8.836	8.830	(1.027)	167	1020475	100.000		80.00- 120.00	100.00(Q)
8.836	8.830	(1.027)	139	138212			0.00- 43.72	13.54
8.836	8.830	(1.027)	83	92447			0.00- 39.70	9.06
105 Di-n-butylphthalate						CAS #: 84-74-2		
9.230	9.227	(1.072)	149	1408418	100.000		80.00- 120.00	100.00(Q)
9.230	9.227	(1.072)	150	128514			0.00- 39.16	9.12
9.230	9.227	(1.072)	104	91016			0.00- 36.36	6.46
109 Fluoranthene						CAS #: 206-44-0		
9.802	9.797	(1.139)	202	1276413	100.000		80.00- 120.00	100.00(Q)
9.801	9.796	(1.139)	101	149374			0.00- 41.60	11.70
9.802	9.797	(1.139)	203	221164			0.00- 47.37	17.33
111 Pyrene						CAS #: 129-00-0		
10.022	10.016	(0.893)	202	1292195	100.000		80.00- 120.00	100.00(Q)
10.022	10.016	(0.893)	200	271374			0.00- 50.33	21.00
10.022	10.016	(0.893)	203	233459			0.00- 47.92	18.07
$ 112 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.182	10.179	(0.908)	244	1044672	100.000		80.00- 120.00	100.00(Q)
10.182	10.178	(0.908)	122	110658			0.00- 40.67	10.59

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
$ 112 Terphenyl-d14 (SURR) (continued)								
10.182	10.179	(0.908)	212	83380			0.00- 37.92	7.98
118 Butylbenzylphthalate						CAS #: 85-68-7		
10.697	10.690	(0.954)	149	665257	100.000		80.00- 120.00	100.00(Q)
10.696	10.691	(0.954)	91	497468			45.72- 105.72	74.78
10.697	10.692	(0.954)	206	146822			0.00- 51.71	22.07
120 Benzo[a]anthracene						CAS #: 56-55-3		
11.200	11.194	(0.998)	228	1333267	100.000		80.00- 120.00	100.00(Q)
11.200	11.194	(0.998)	229	261274			0.00- 49.13	19.60
11.200	11.194	(0.998)	226	357342			0.00- 57.06	26.80
* 121 Chrysene-d12						CAS #: 1719-03-5		
11.217	11.211	(1.000)	240	477431	40.0000		80.00- 120.00	100.00(Q)
11.217	11.210	(1.000)	120	48689			0.00- 40.02	10.20
11.218	11.210	(1.000)	236	117691			0.00- 54.50	24.65
123 Chrysene						CAS #: 218-01-9		
11.245	11.238	(1.002)	228	1307164	100.000		80.00- 120.00	100.00(Q)
11.245	11.238	(1.002)	226	382506			0.00- 59.08	29.26
11.245	11.238	(1.002)	229	257753			0.00- 49.34	19.72
124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.278	11.275	(1.005)	149	925492	100.000		80.00- 120.00	100.00(Q)
11.278	11.276	(1.005)	167	276016			0.00- 59.84	29.82
11.279	11.276	(1.005)	279	70988			0.00- 37.67	7.67
125 Di-n-octylphthalate						CAS #: 117-84-0		
11.847	11.842	(0.945)	149	1629218	100.000		80.00- 120.00	100.00(Q)
11.848	11.843	(0.945)	167	25846			0.00- 31.49	1.59
11.847	11.842	(0.945)	43	134208			0.00- 38.92	8.24
127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.206	12.198	(0.974)	252	1085935	100.000		80.00- 120.00	100.00(Q)
12.206	12.198	(0.973)	253	238656			0.00- 52.25	21.98
12.205	12.219	(0.973)	125	107264			0.00- 48.56	9.88
128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.229	12.220	(0.975)	252	1415956	100.000		80.00- 120.00	100.00(Q)
12.229	12.220	(0.975)	253	314925			0.00- 52.11	22.24
12.229	12.219	(0.975)	125	116562			0.00- 46.79	8.23
129 Benzo[a]pyrene						CAS #: 50-32-8		
12.492	12.484	(0.996)	252	1136843	100.000		80.00- 120.00	100.00(Q)
12.492	12.484	(0.996)	253	255906			0.00- 51.58	22.51
12.491	12.484	(0.996)	125	112532			0.00- 39.66	9.90
* 130 Perylene-d12						CAS #: 1520-96-3		
12.538	12.532	(1.000)	264	395905	40.0000		80.00- 120.00	100.00(Q)
12.538	12.533	(1.000)	260	91897			0.00- 52.70	23.21
12.538	12.532	(1.000)	265	86646			0.00- 52.11	21.89

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
133 Indeno[1,2,3-cd]pyrene							CAS #: 193-39-5	
13.585	13.569	(1.083)	276	1235180	100.000		80.00- 120.00	100.00(Q)
13.587	13.570	(1.084)	138	285930			0.00- 53.00	23.15
13.586	13.570	(1.084)	277	316627			0.00- 55.19	25.63
134 Dibenz[a,h]anthracene							CAS #: 53-70-3	
13.590	13.574	(1.084)	278	1074724	100.000		80.00- 120.00	100.00(Q)
13.589	13.573	(1.084)	139	158447			0.00- 45.33	14.74
13.590	13.574	(1.084)	279	253107			0.00- 53.44	23.55
135 Benzo[g,h,i]perylene							CAS #: 191-24-2	
13.869	13.852	(1.106)	276	890522	100.000		80.00- 120.00	100.00(Q)
13.868	13.852	(1.106)	138	170335			0.00- 48.86	19.13
13.869	13.852	(1.106)	277	209872			0.00- 53.33	23.57

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

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Date : 14-NOV-2012 22:40
Client ID: 8270CAL7
Sample Info: 47763

Column phase: HPMS-5

Instrument: smsdo4.i

Operator: MJ
Column diameter: 0.25

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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

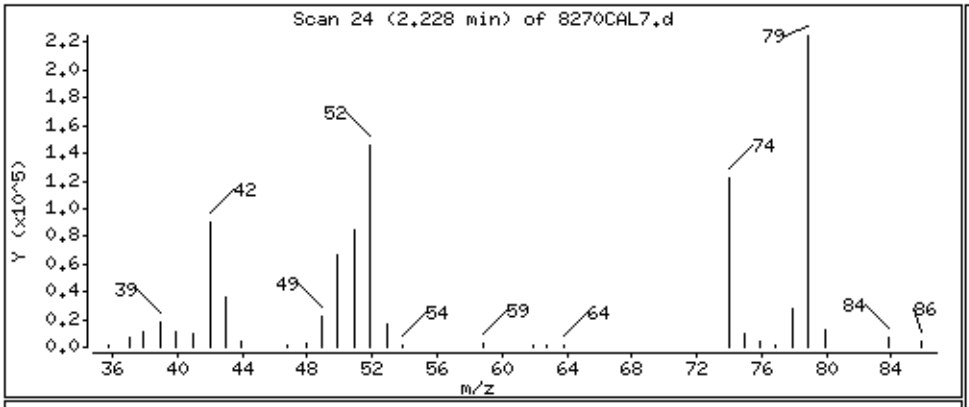
Sample Info: 47763

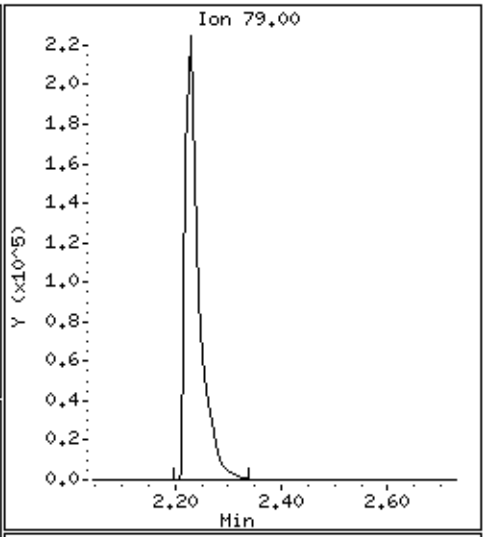
Operator: MJ

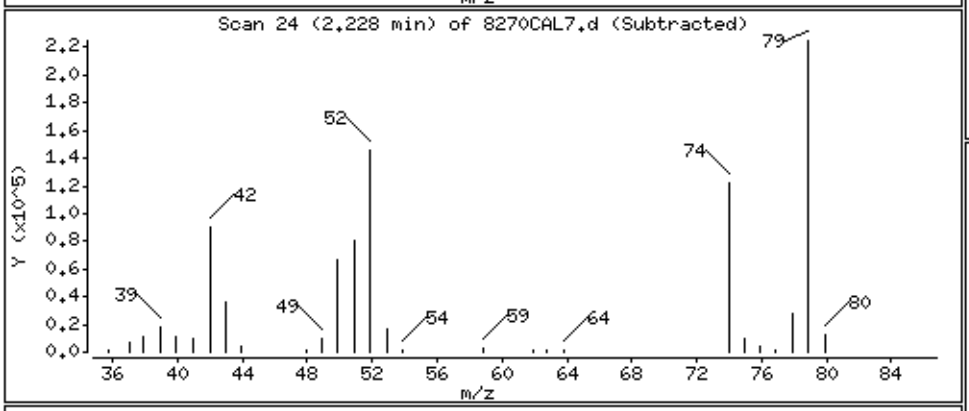
Column phase: HPMS-5

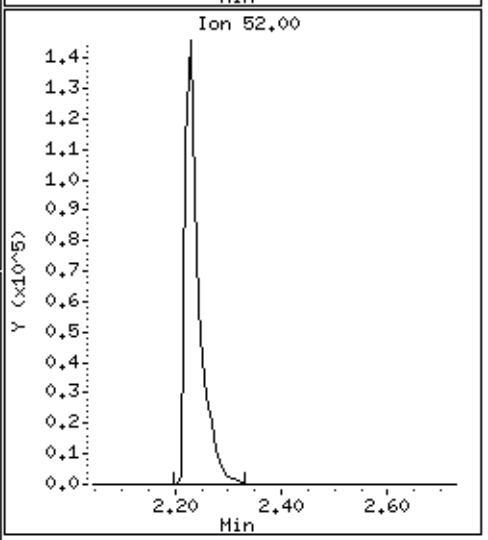
Column diameter: 0.25

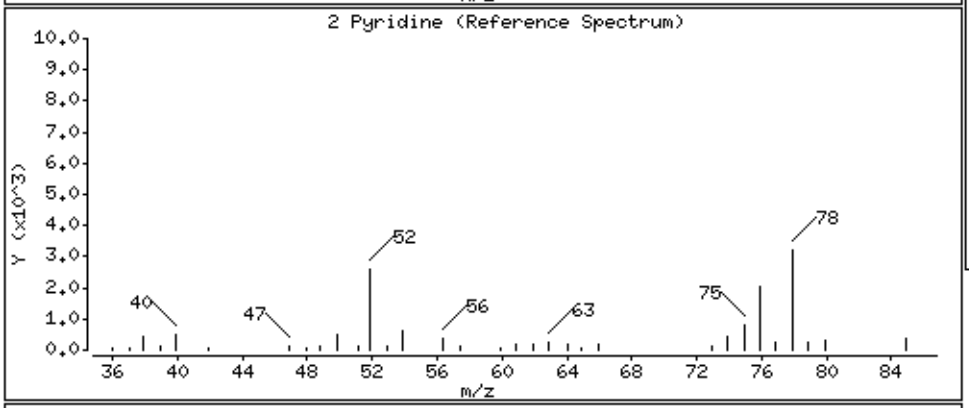
2 Pyridine

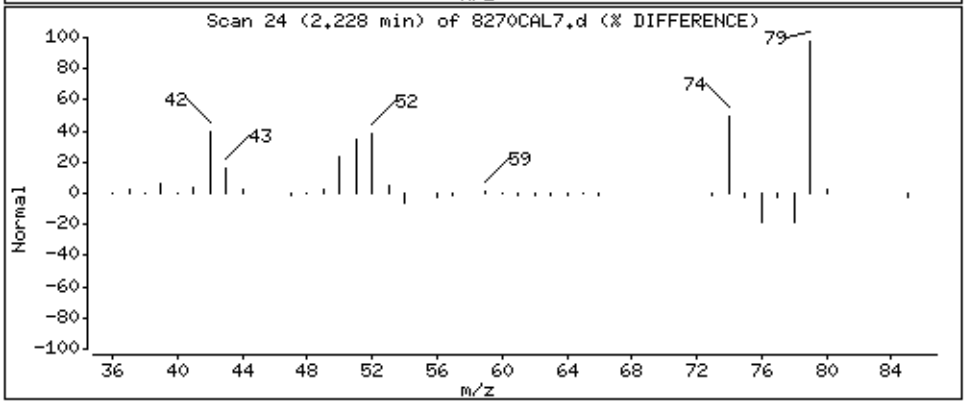












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

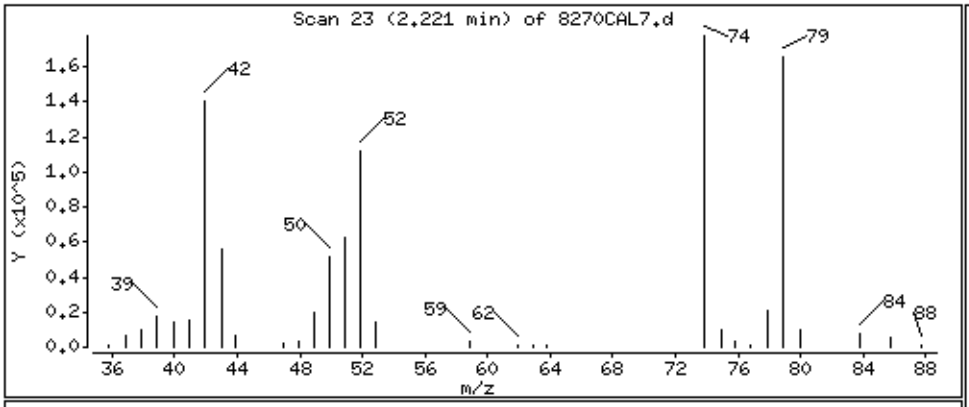
Sample Info: 47763

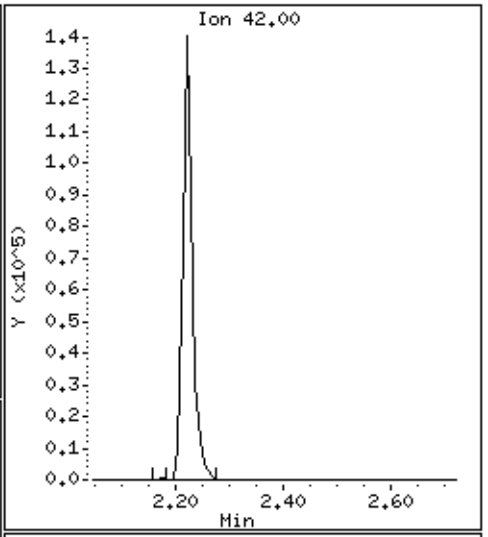
Operator: MJ

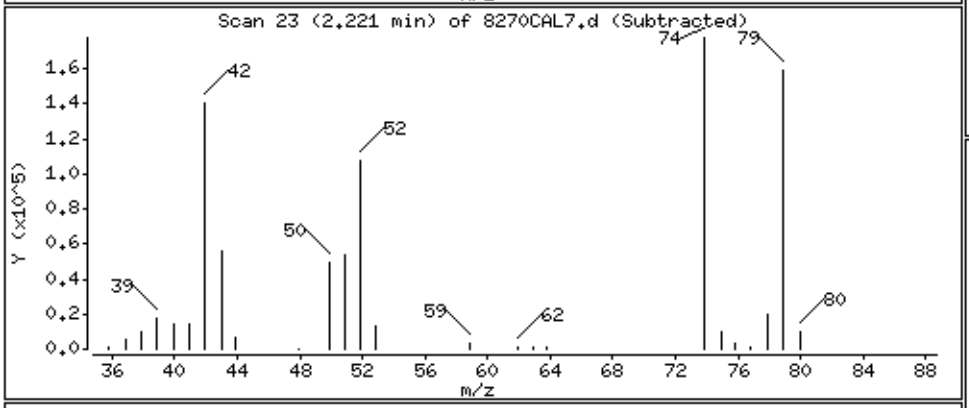
Column phase: HPMS-5

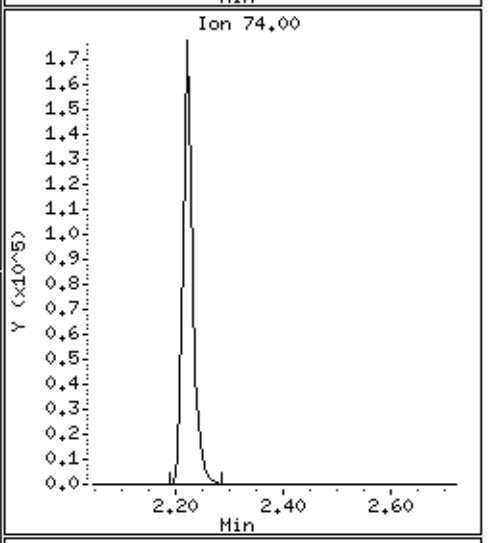
Column diameter: 0.25

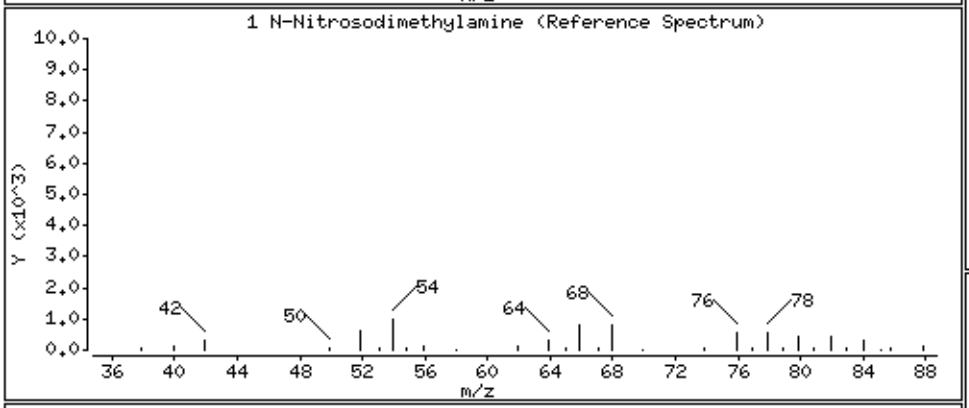
1 N-Nitrosodimethylamine

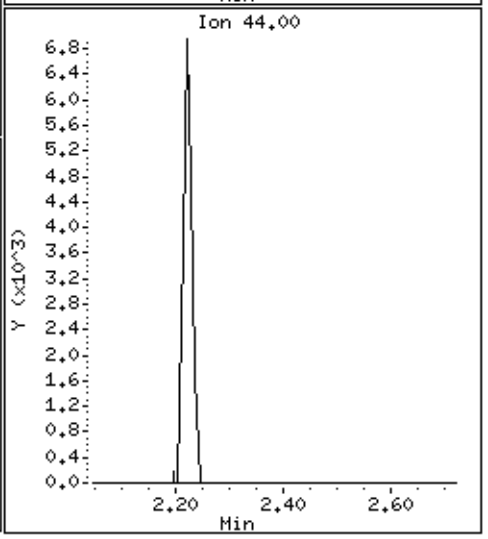


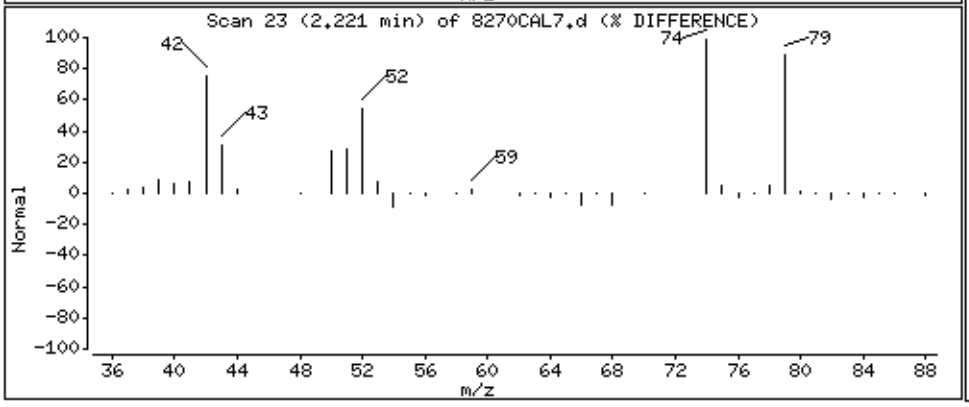












Date : 14-NOV-2012 22:40

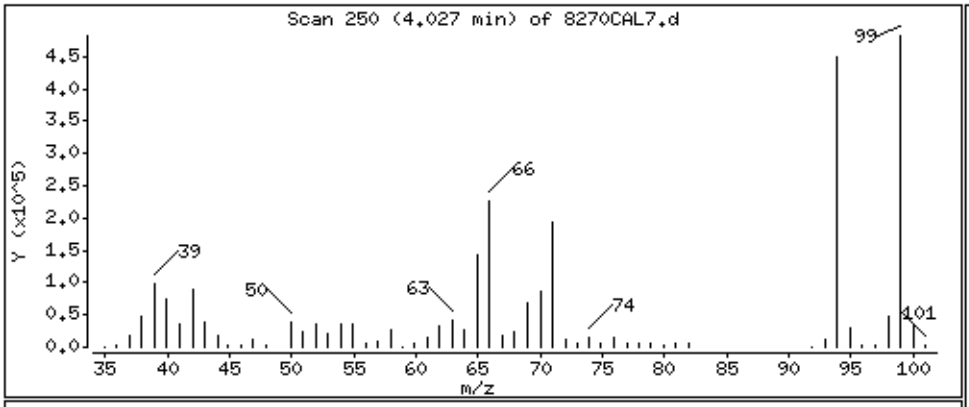
Client ID: 8270CAL7 Instrument: smsd04.i

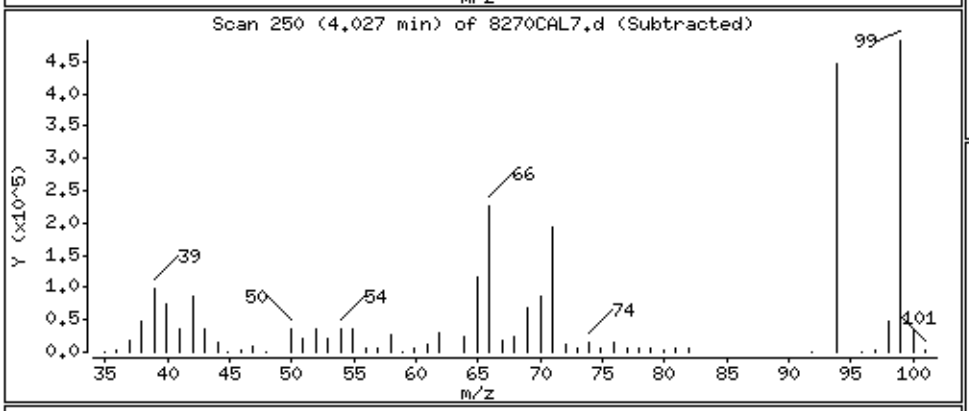
Sample Info: 47763

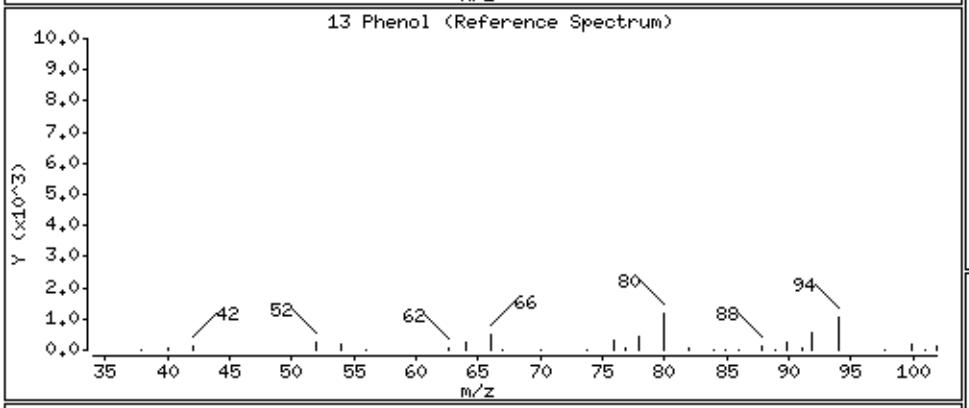
Operator: MJ

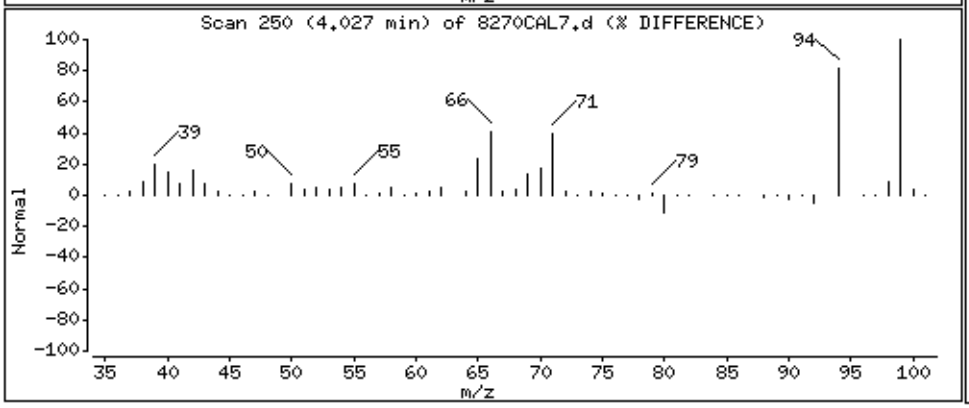
Column phase: HPMS-5 Column diameter: 0.25

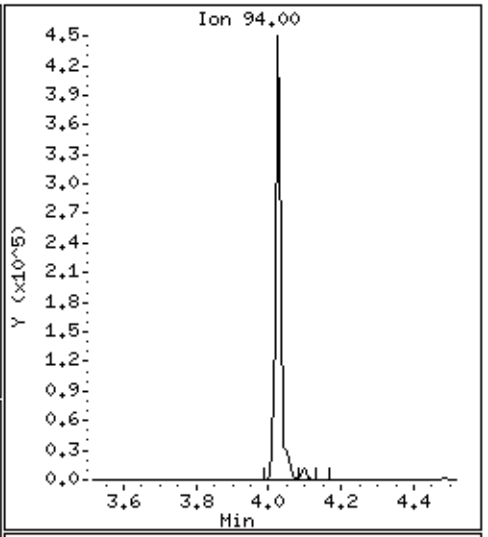
13 Phenol

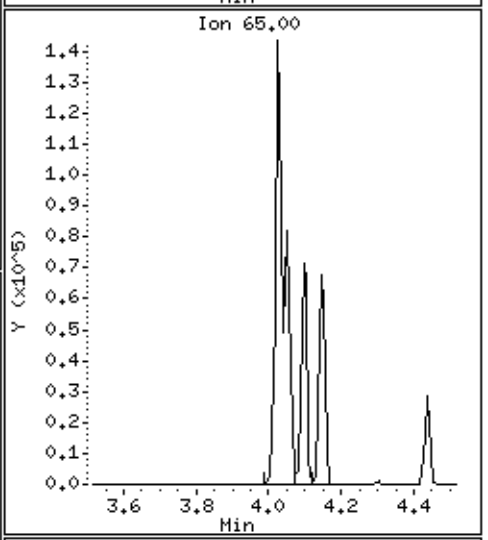


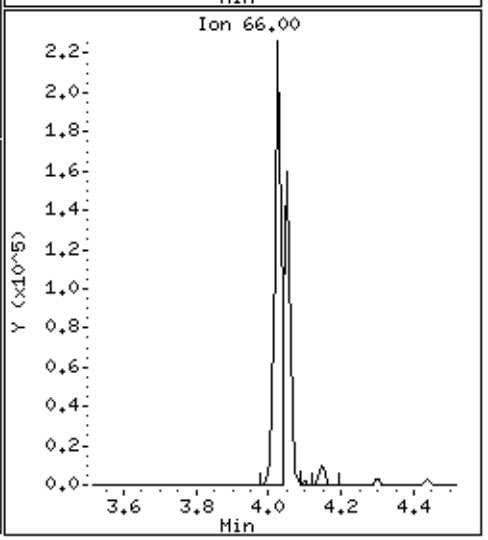












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

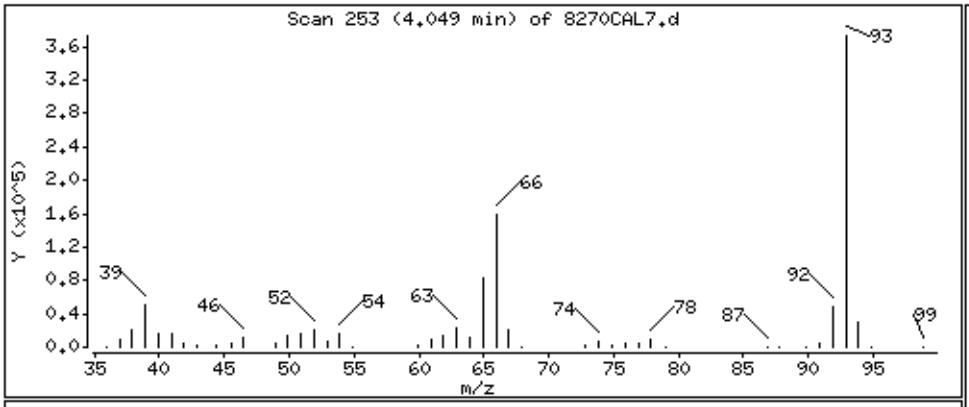
Sample Info: 47763

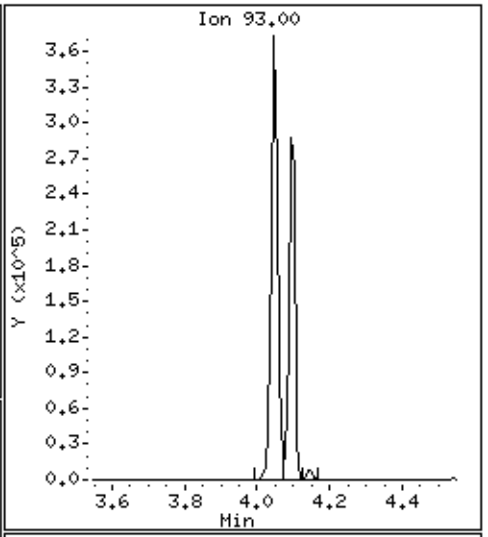
Operator: MJ

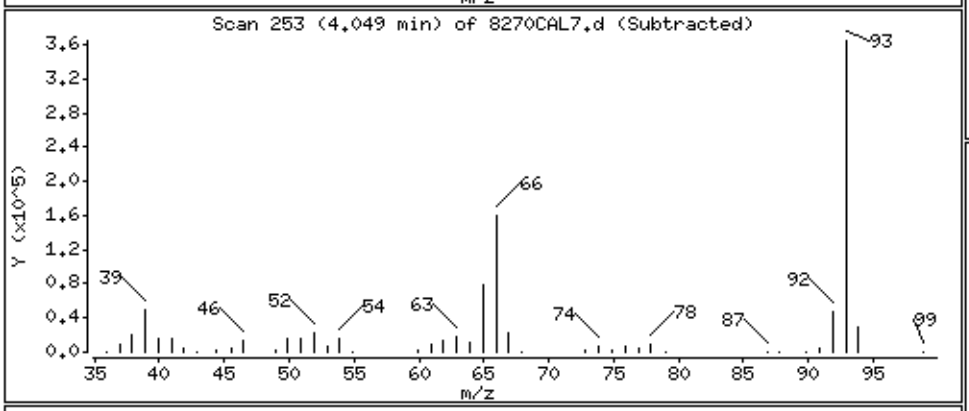
Column phase: HPMS-5

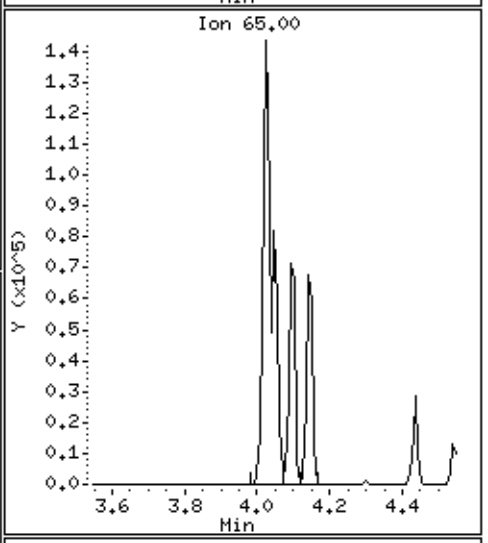
Column diameter: 0.25

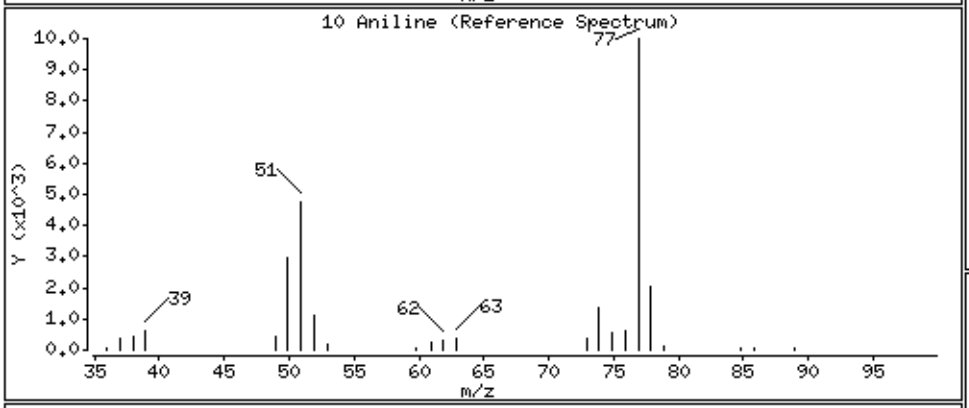
10 Aniline

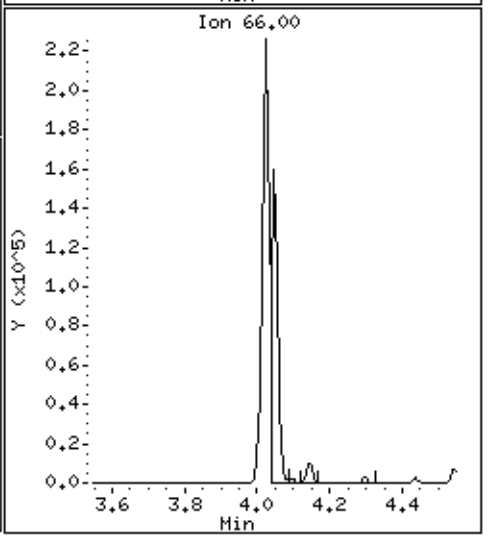


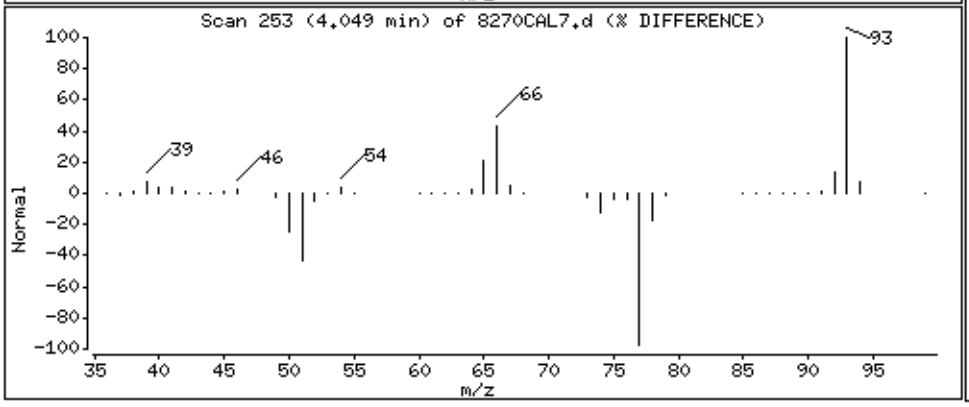












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

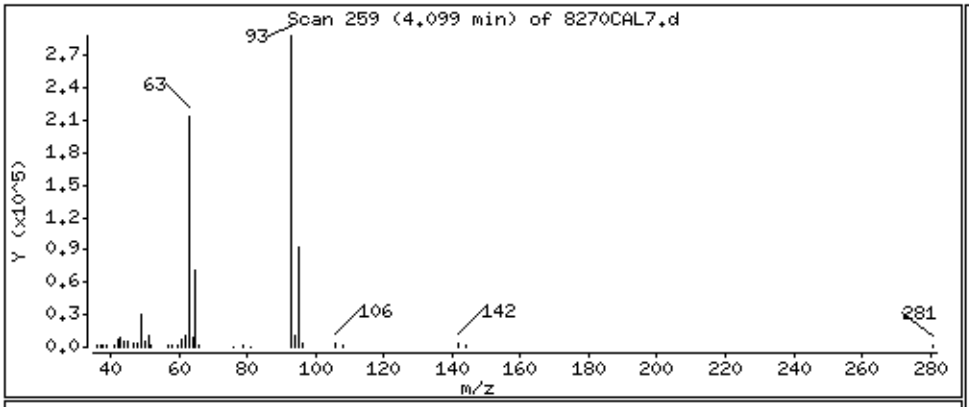
Sample Info: 47763

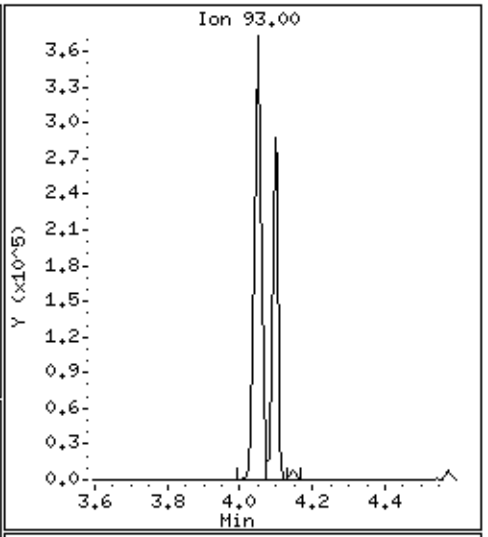
Operator: MJ

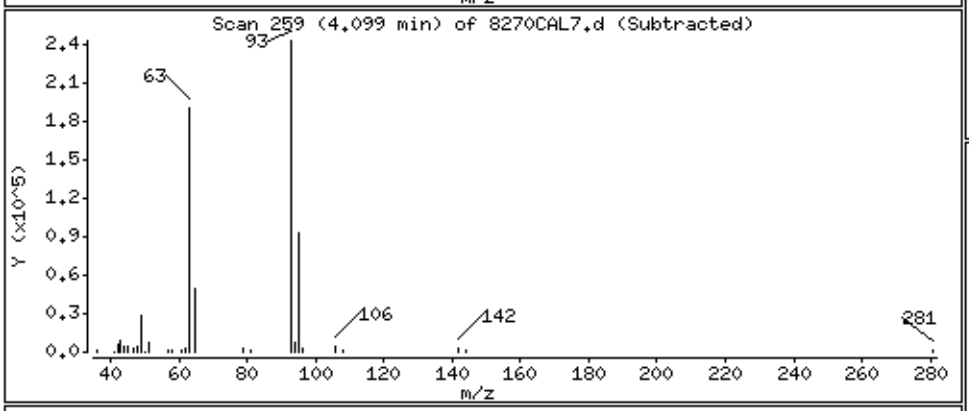
Column phase: HPMS-5

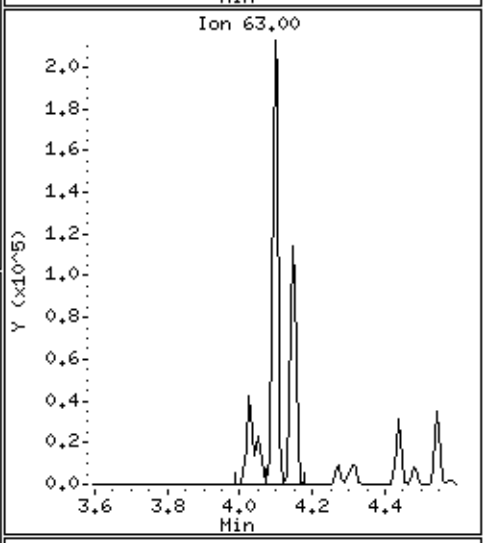
Column diameter: 0.25

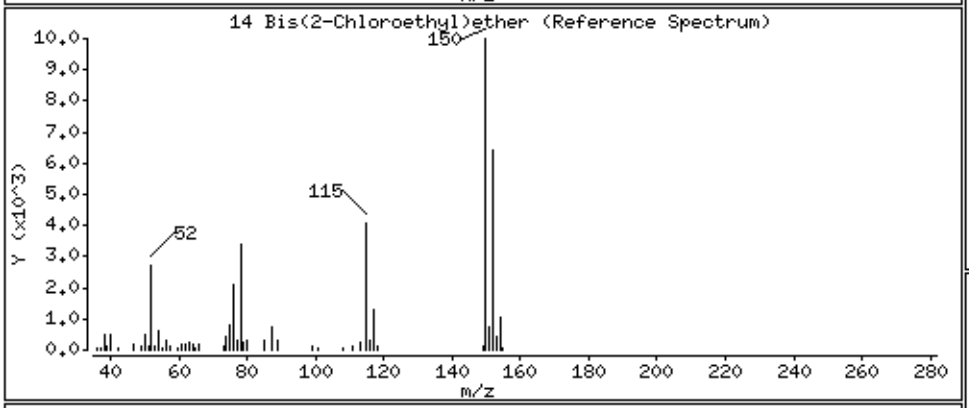
14 Bis(2-Chloroethyl)ether

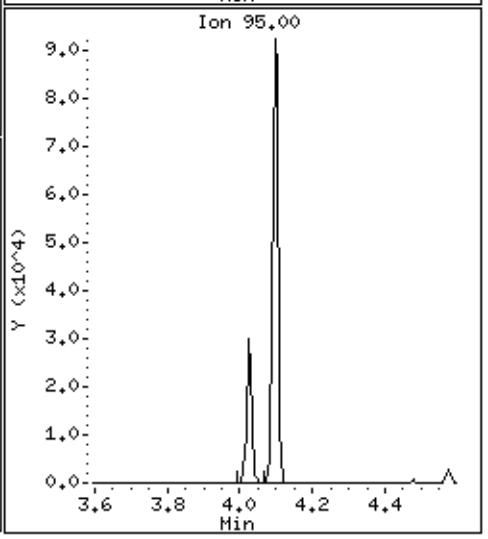


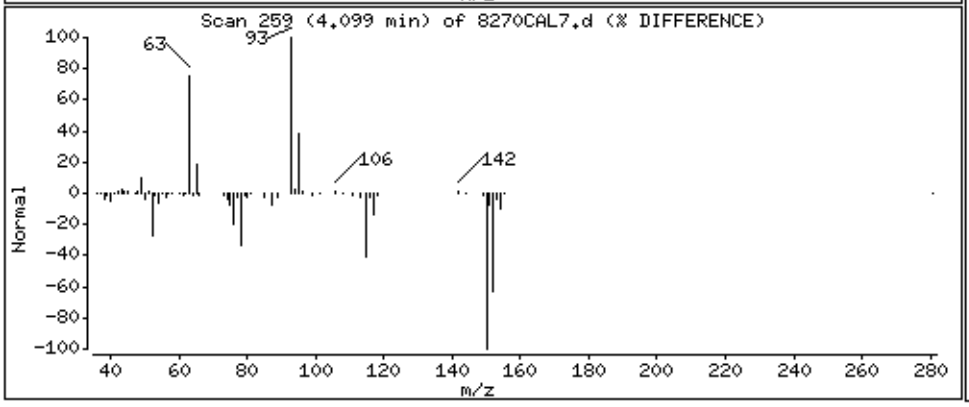












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

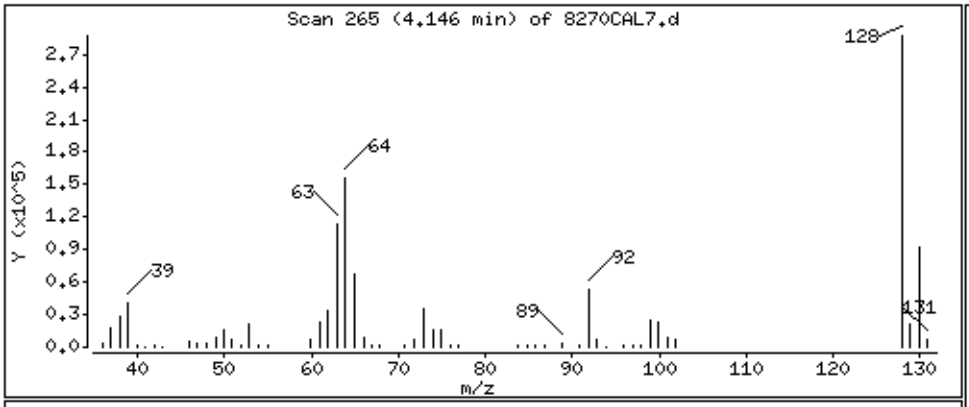
Sample Info: 47763

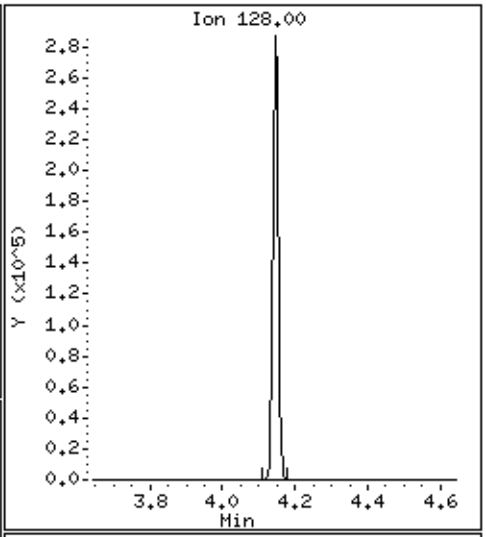
Operator: MJ

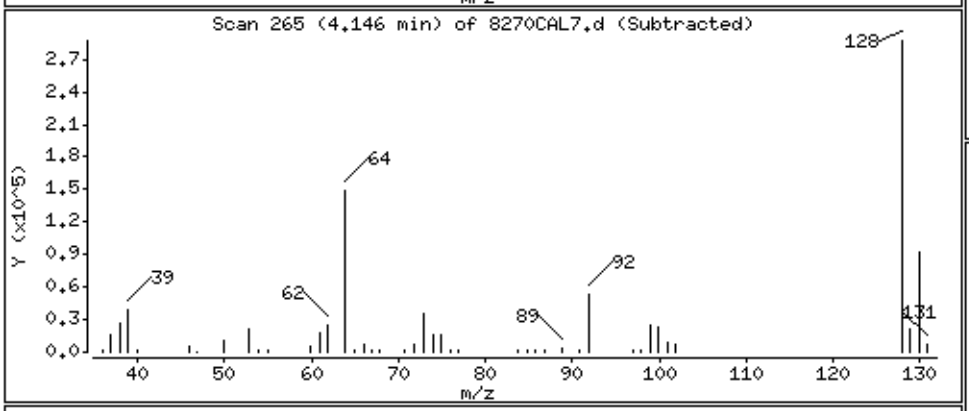
Column phase: HPMS-5

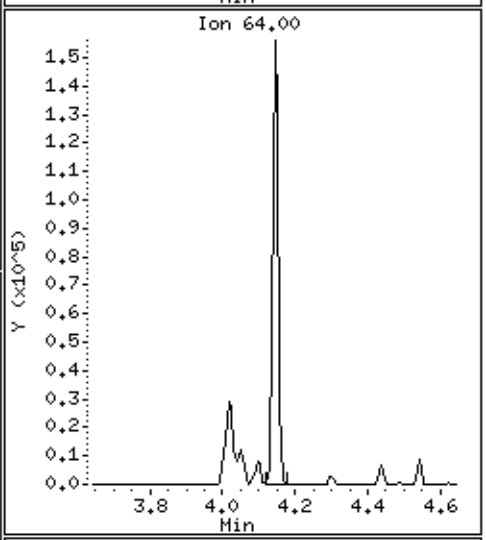
Column diameter: 0.25

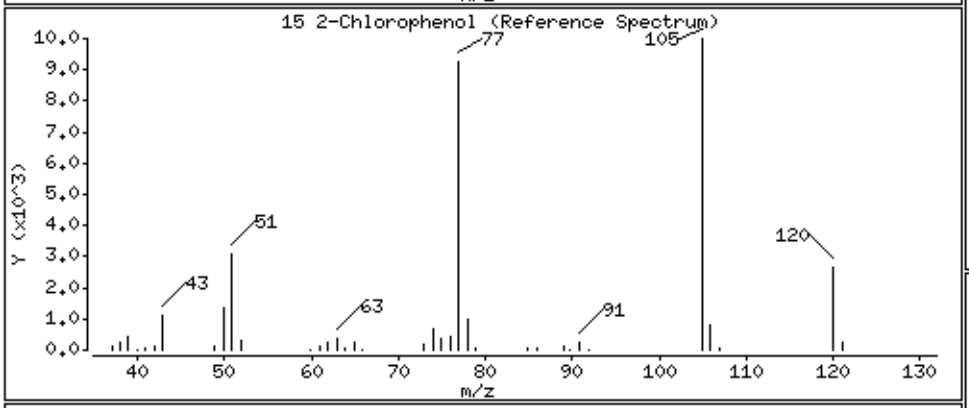
15 2-Chlorophenol

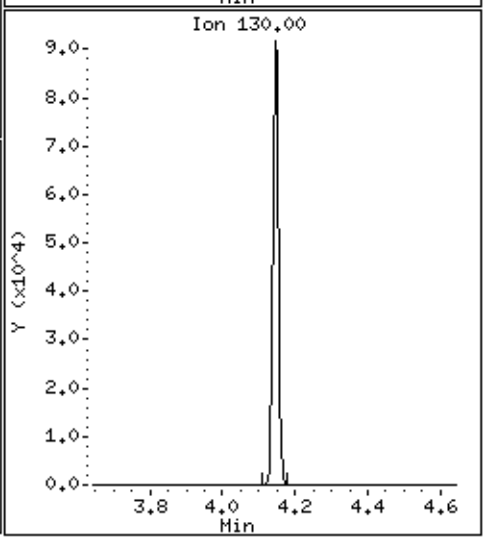


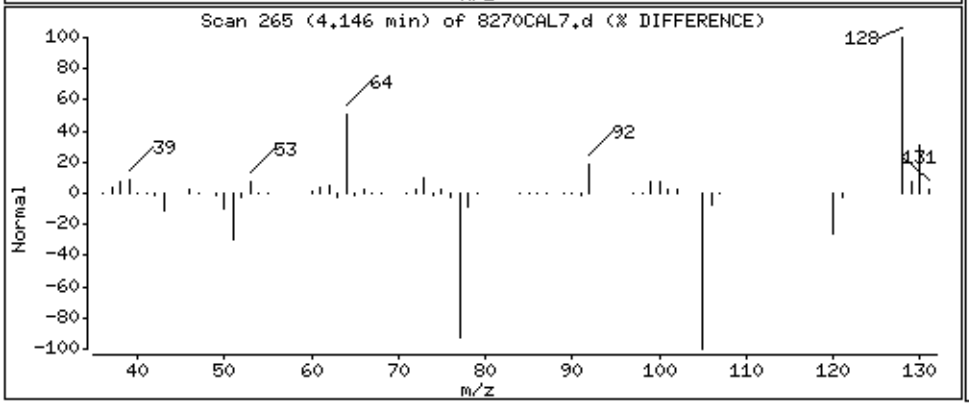












Date : 14-NOV-2012 22:40

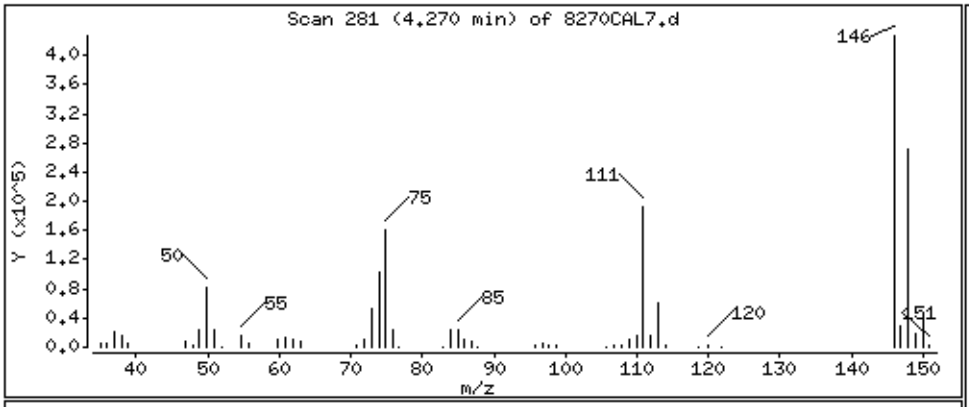
Client ID: 8270CAL7 Instrument: smsd04.i

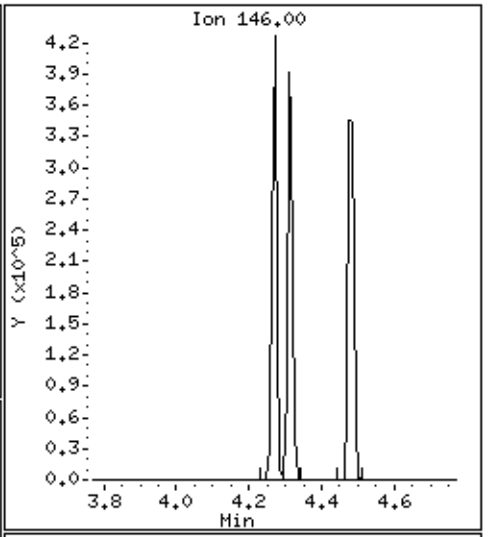
Sample Info: 47763

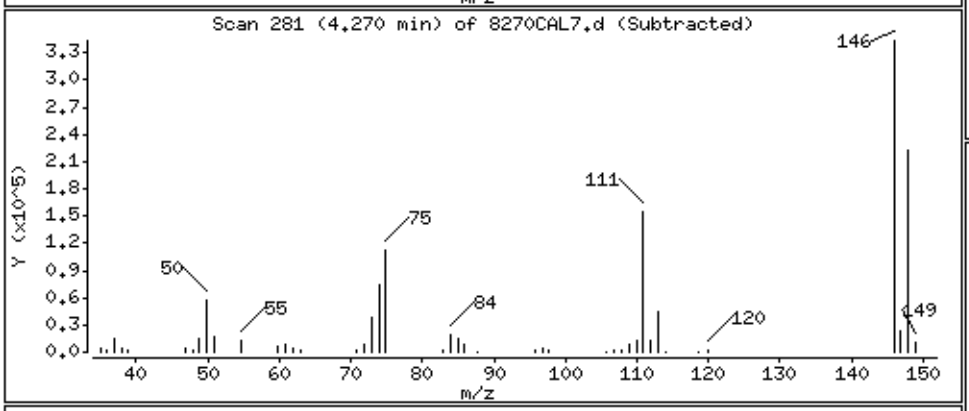
Operator: MJ

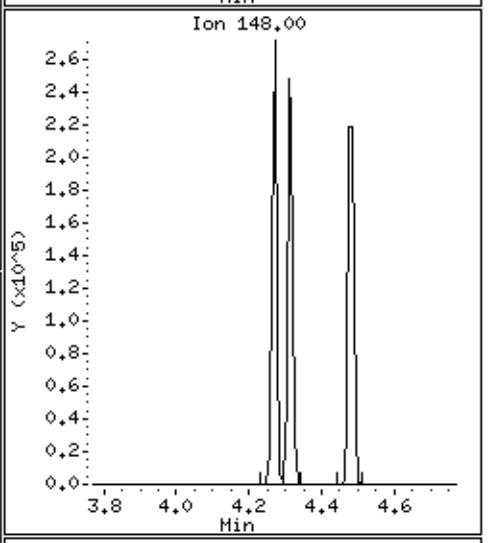
Column phase: HPMS-5 Column diameter: 0.25

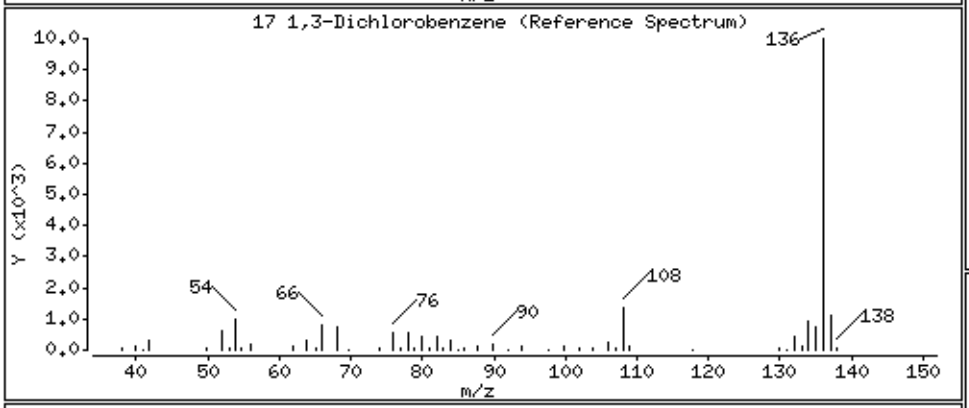
17 1,3-Dichlorobenzene

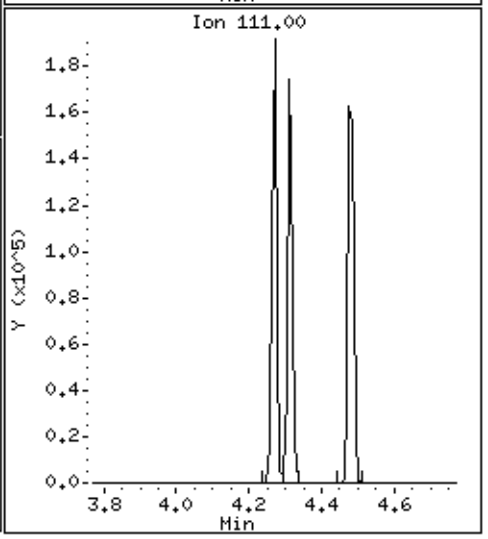


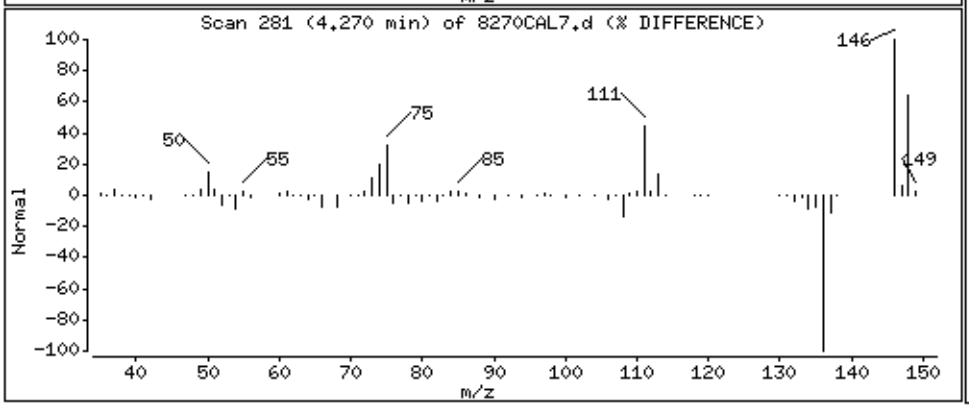












Date : 14-NOV-2012 22:40

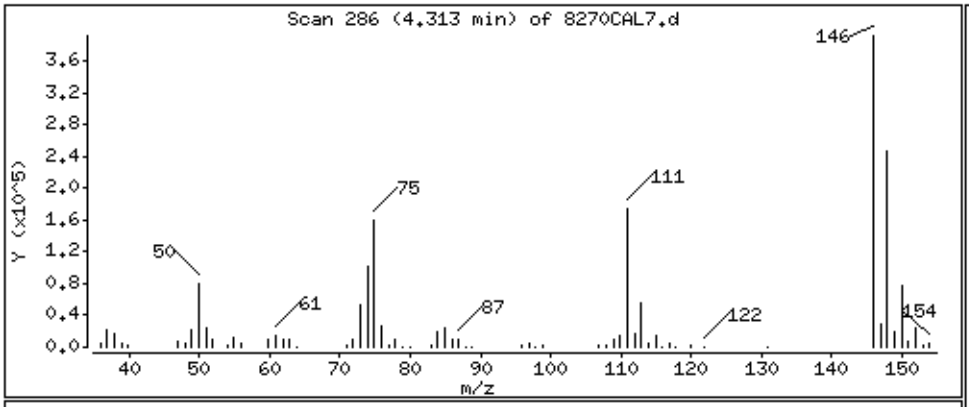
Client ID: 8270CAL7 Instrument: smsd04.i

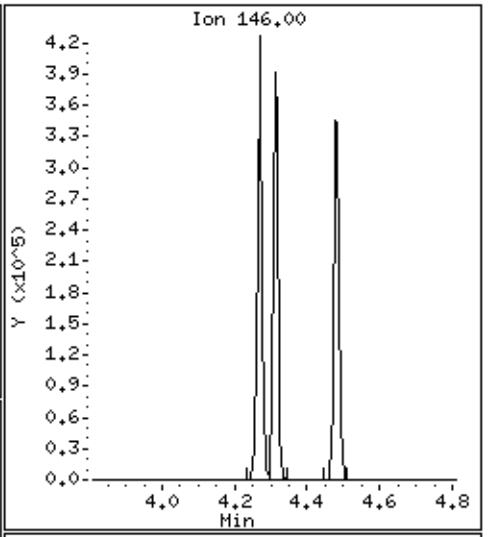
Sample Info: 47763

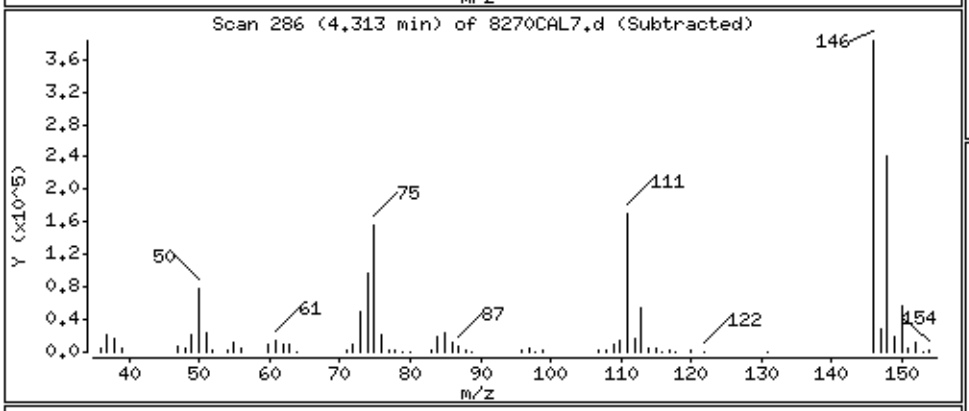
Operator: MJ

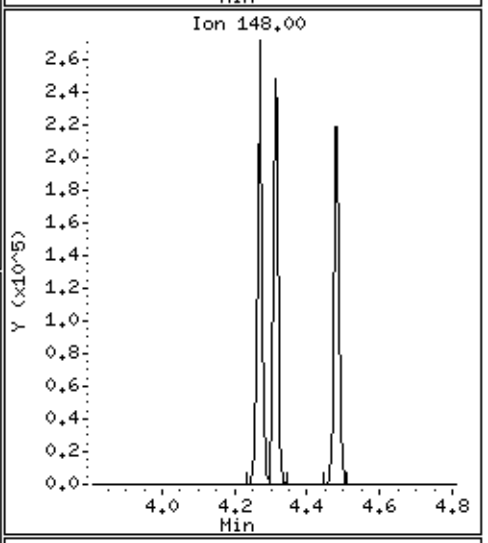
Column phase: HPMS-5 Column diameter: 0.25

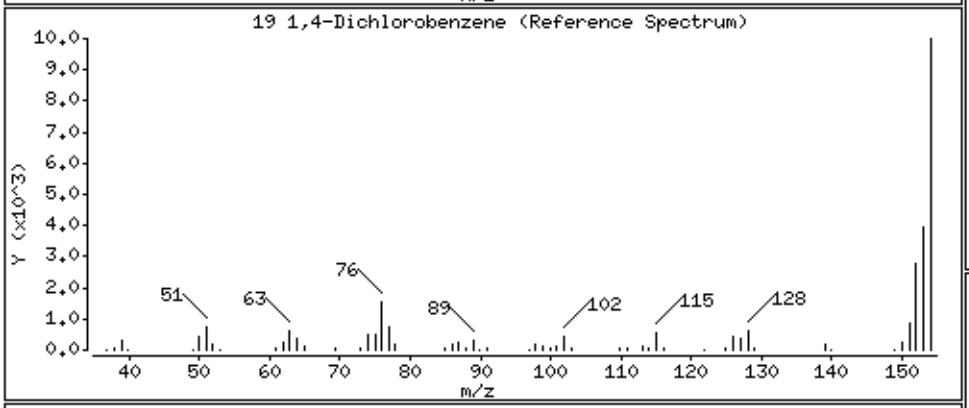
19 1,4-Dichlorobenzene

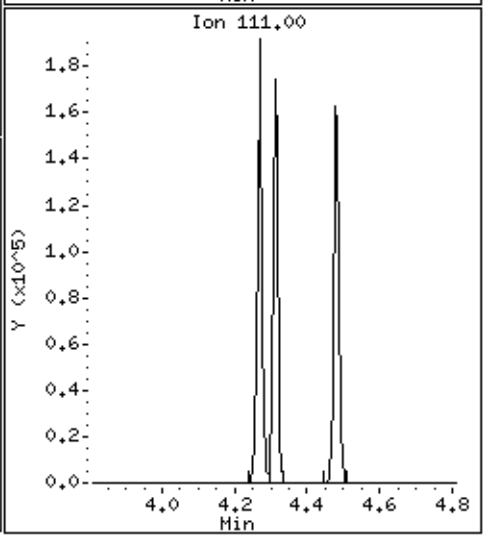


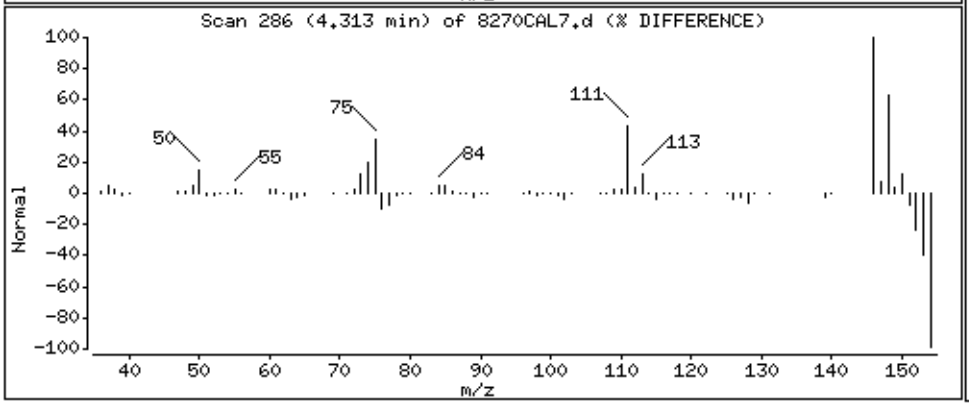












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

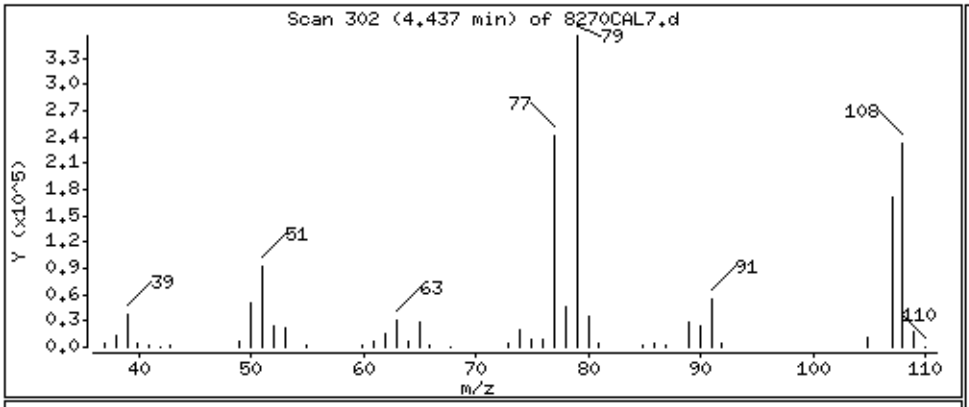
Sample Info: 47763

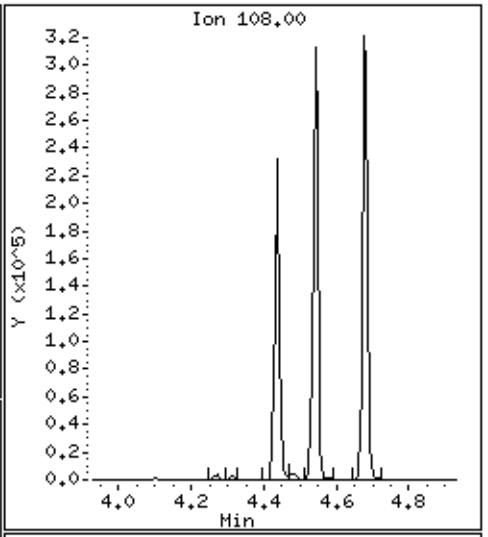
Operator: MJ

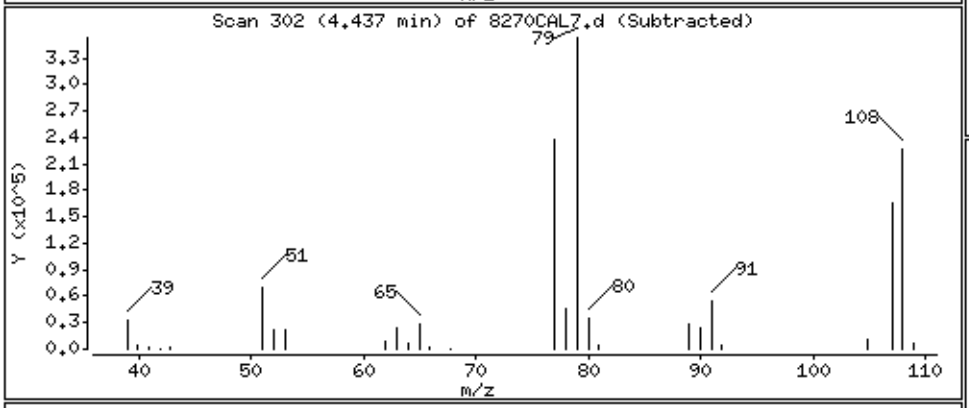
Column phase: HPMS-5

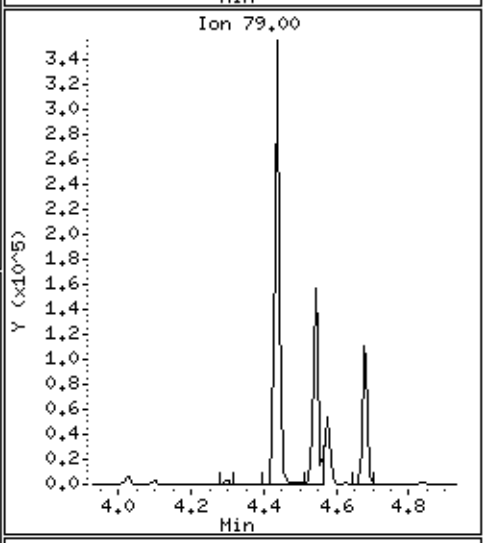
Column diameter: 0.25

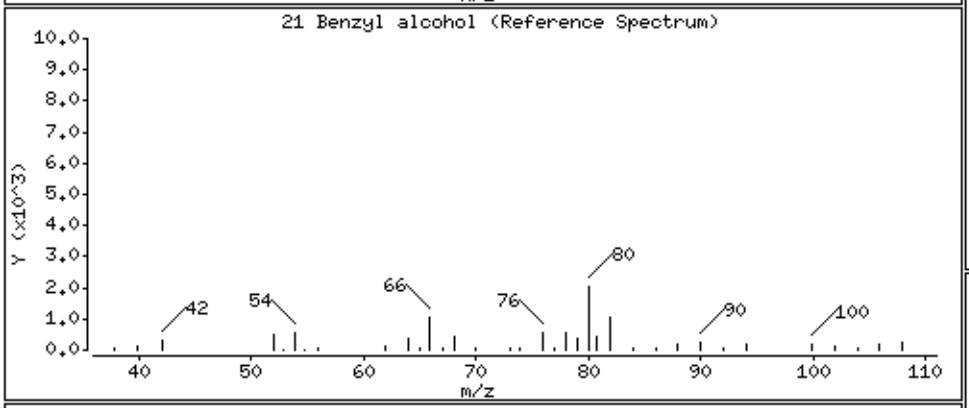
21 Benzyl alcohol

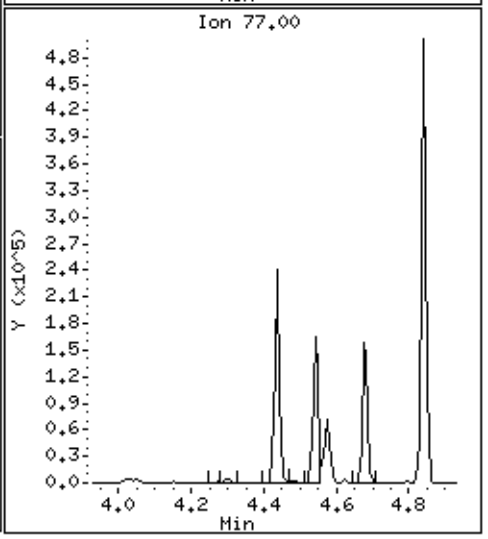


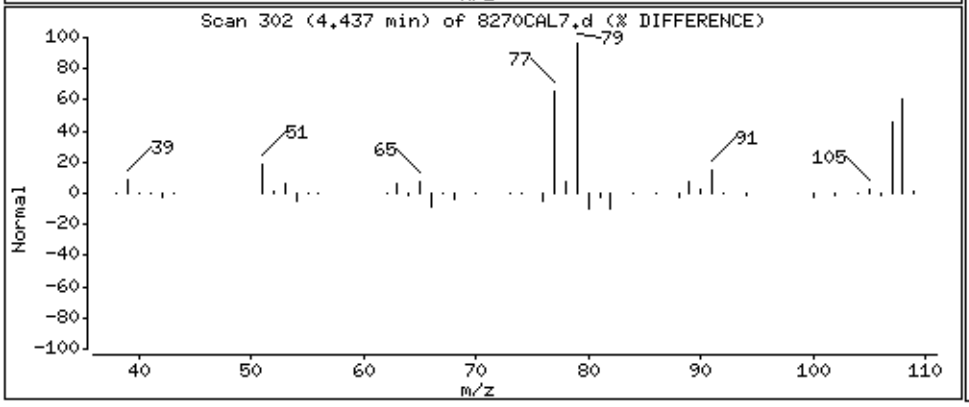












Date : 14-NOV-2012 22:40

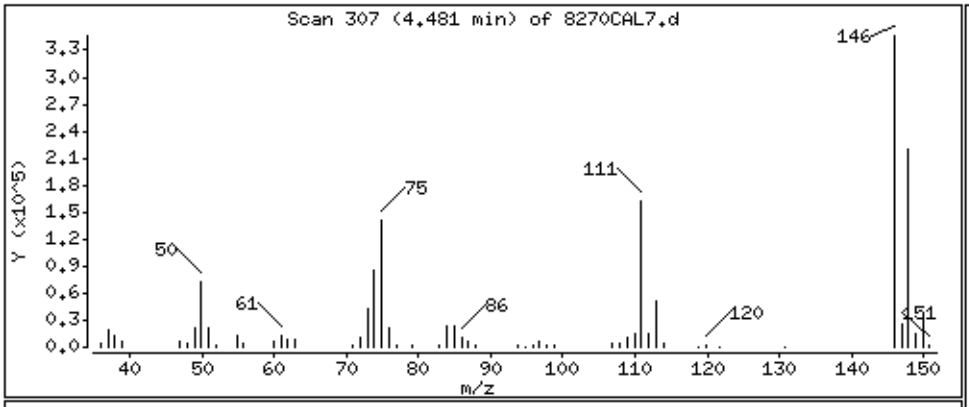
Client ID: 8270CAL7 Instrument: smsd04.i

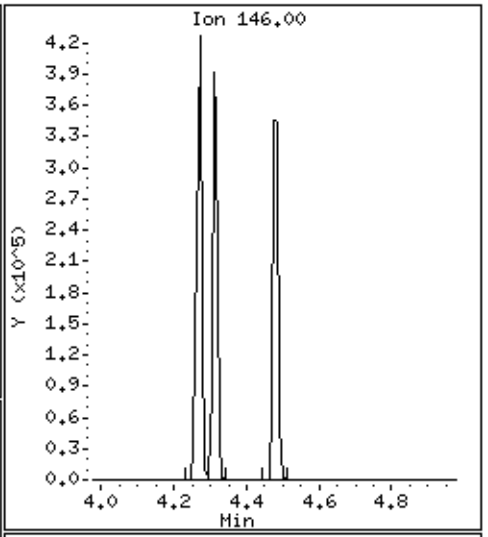
Sample Info: 47763

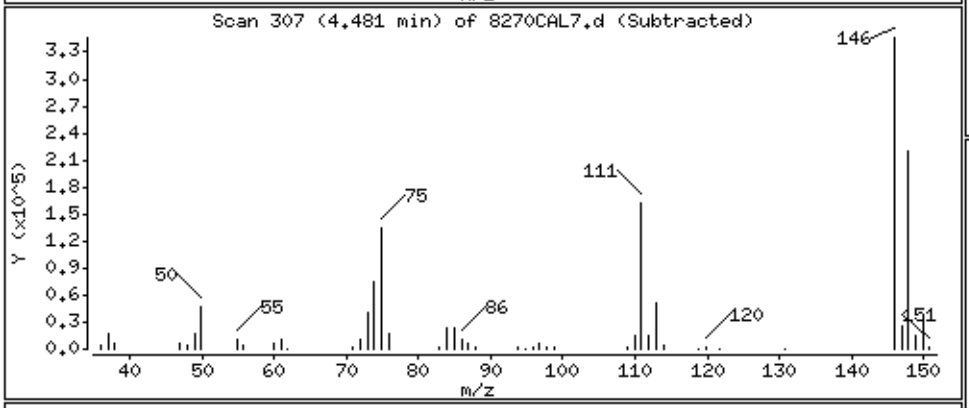
Operator: MJ

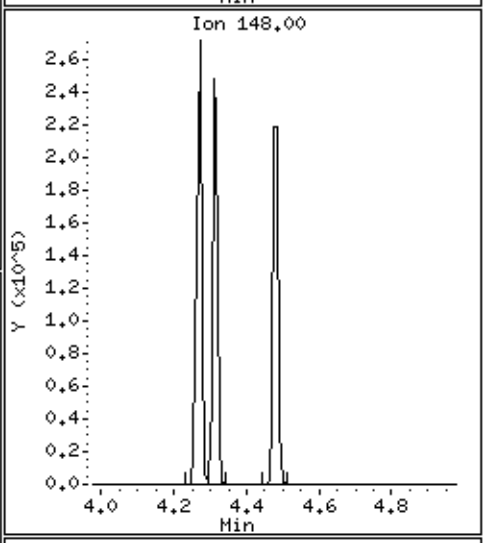
Column phase: HPMS-5 Column diameter: 0.25

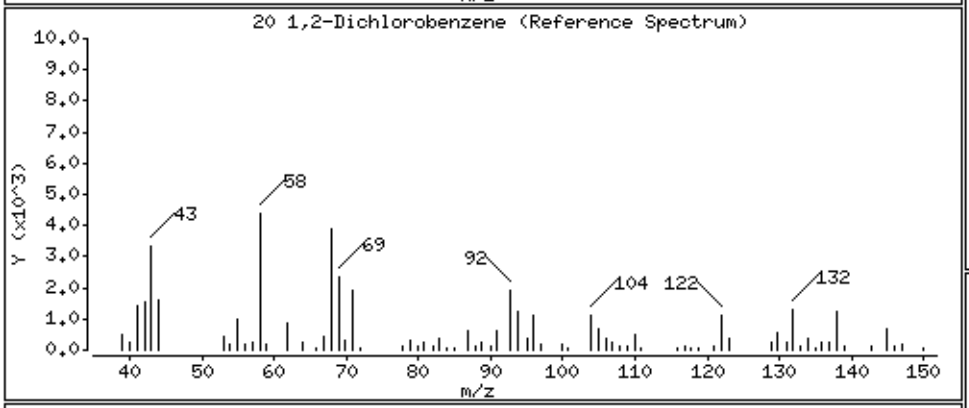
20 1,2-Dichlorobenzene

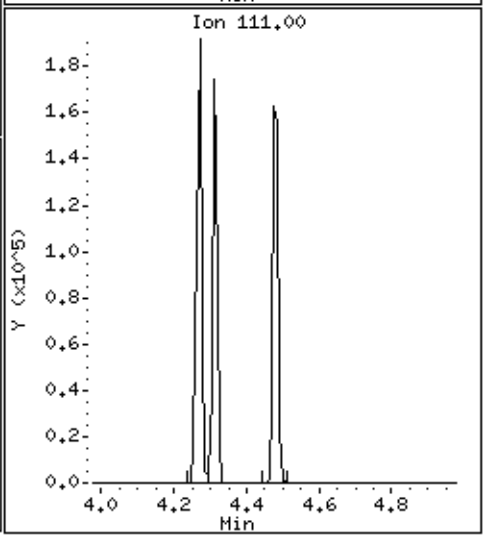


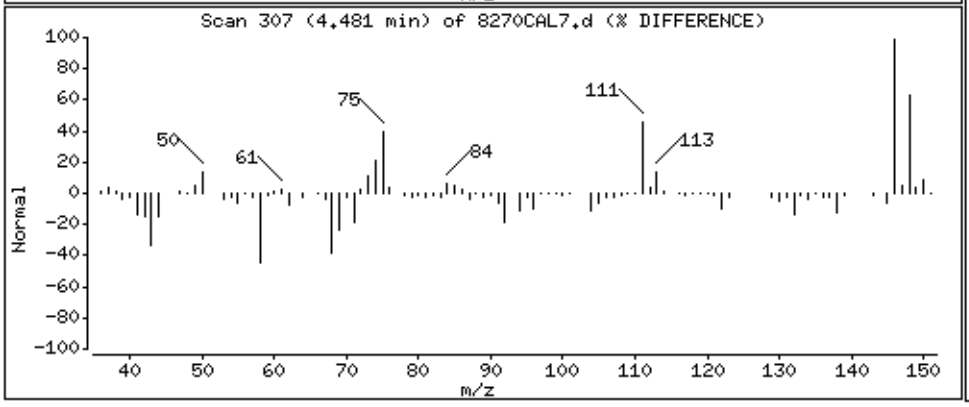












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

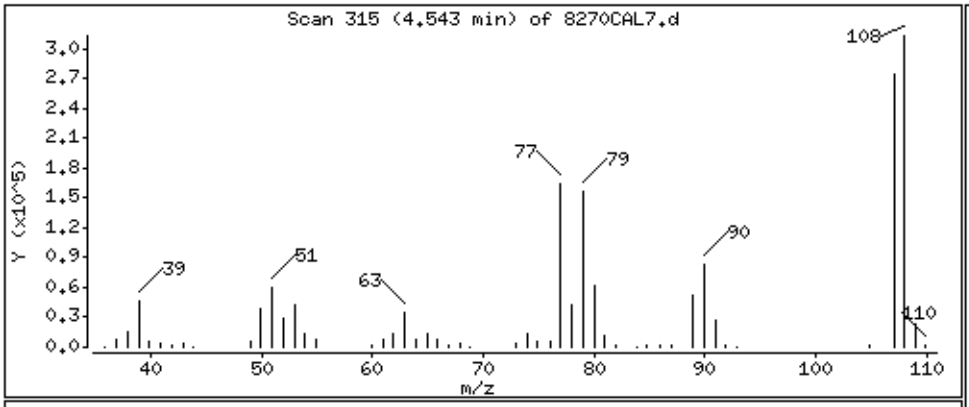
Sample Info: 47763

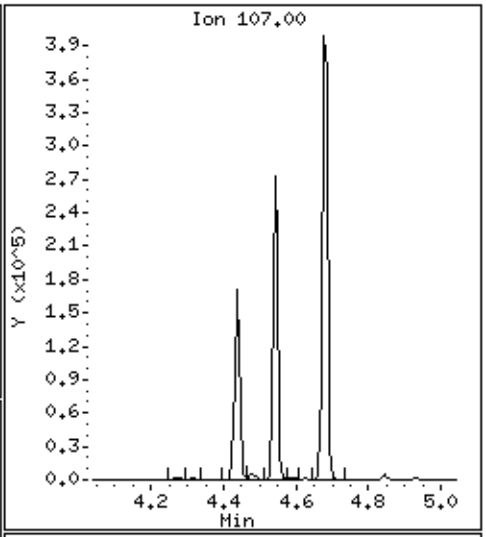
Operator: MJ

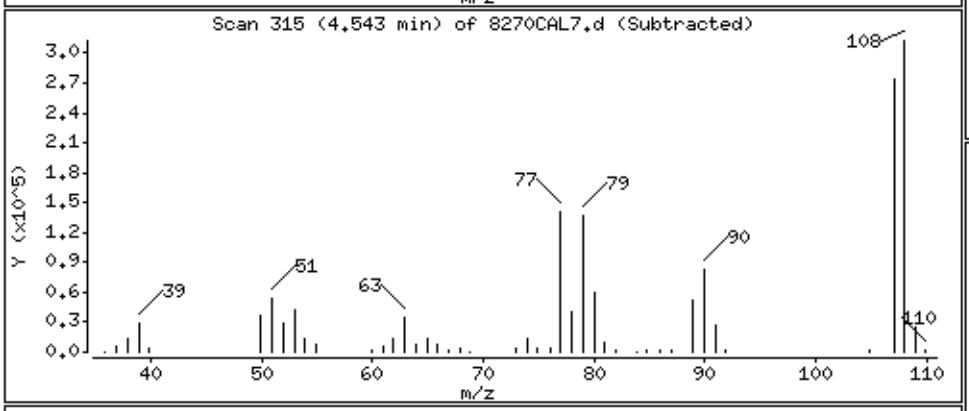
Column phase: HPMS-5

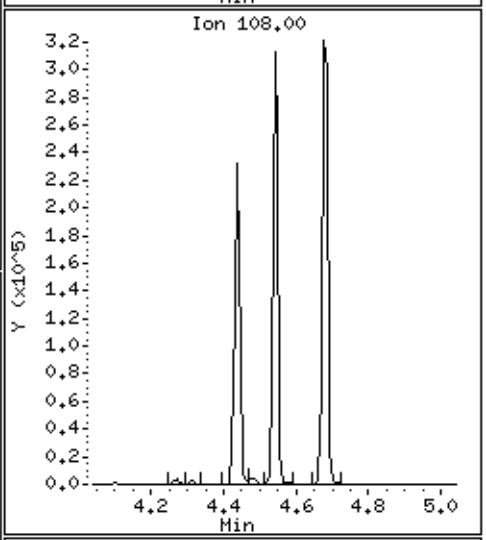
Column diameter: 0.25

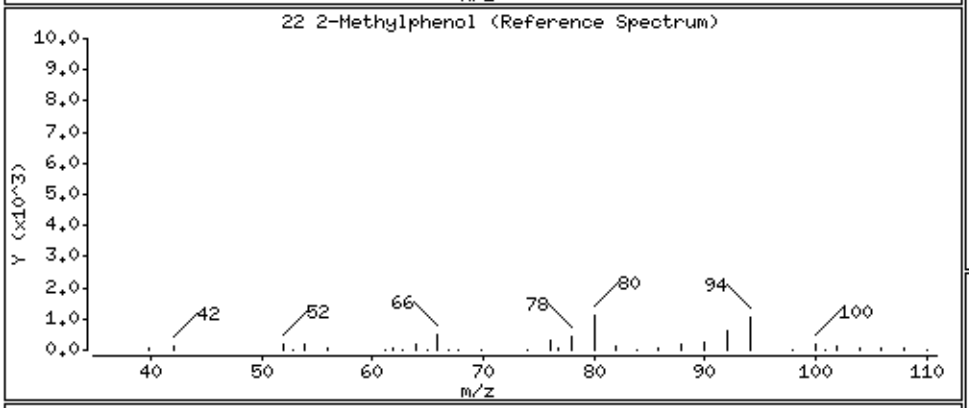
22 2-Methylphenol

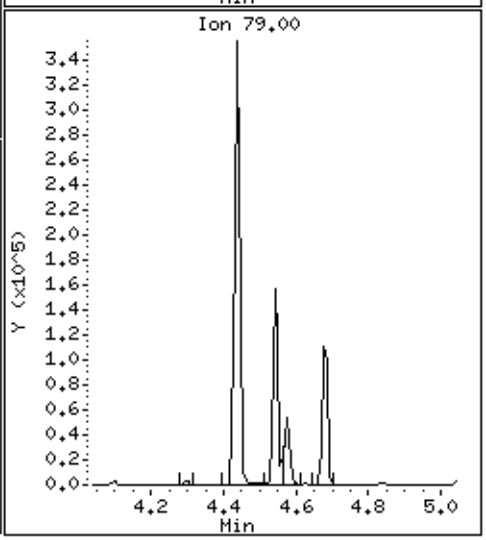


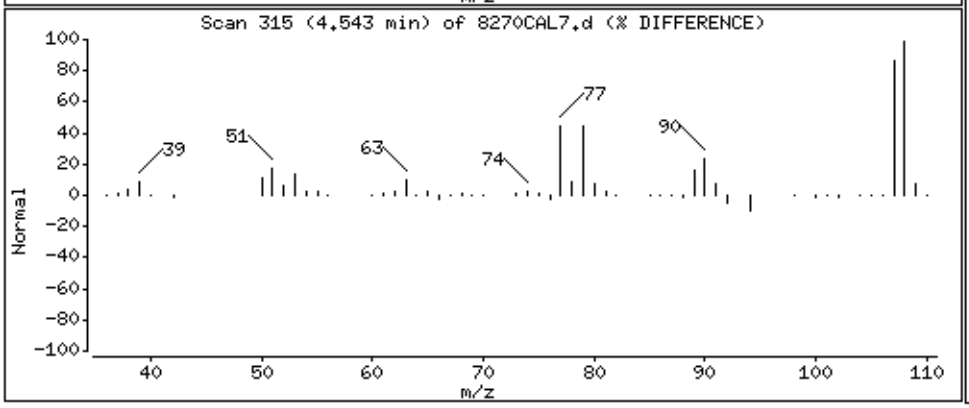












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

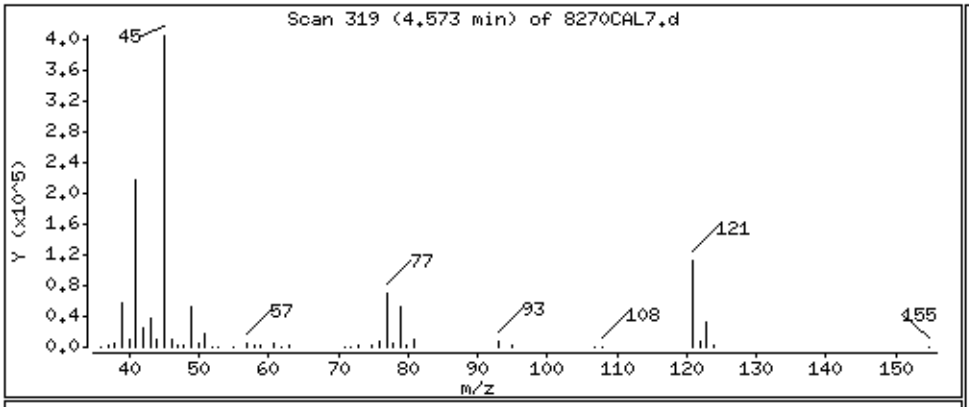
Sample Info: 47763

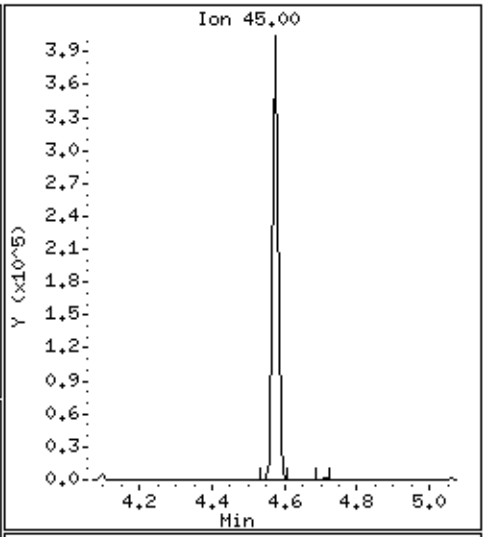
Operator: MJ

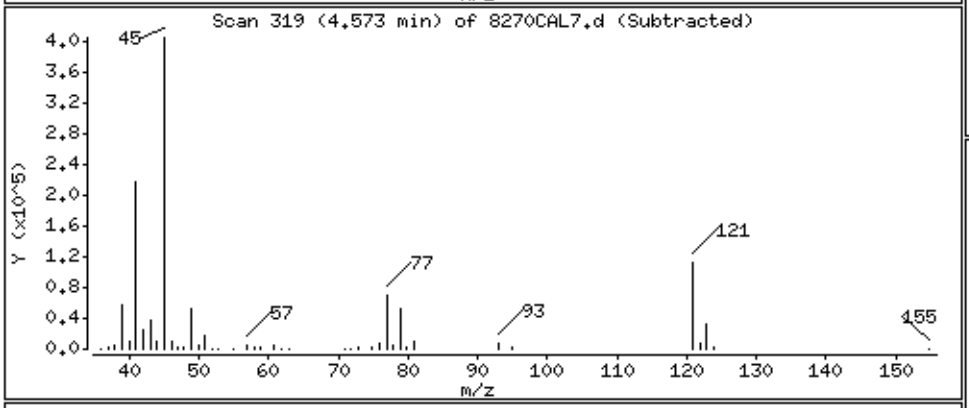
Column phase: HPMS-5

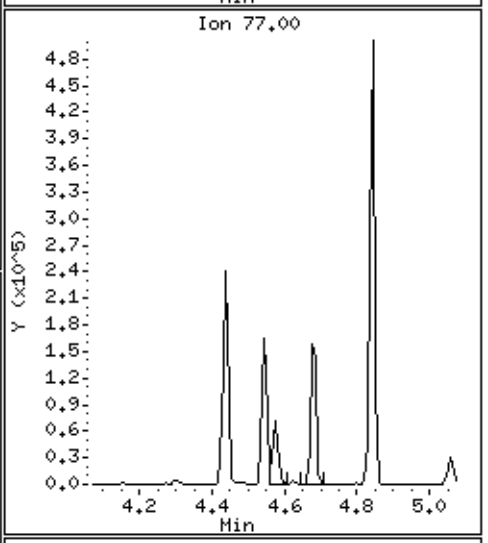
Column diameter: 0.25

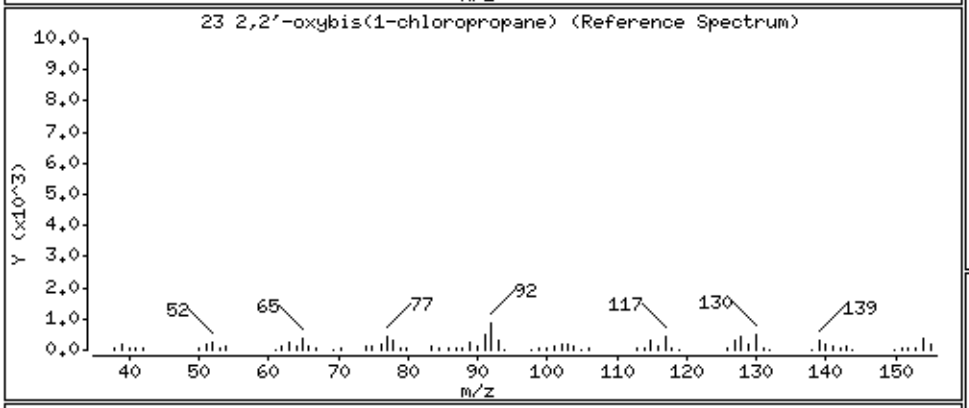
23 2,2'-oxybis(1-chloropropane)

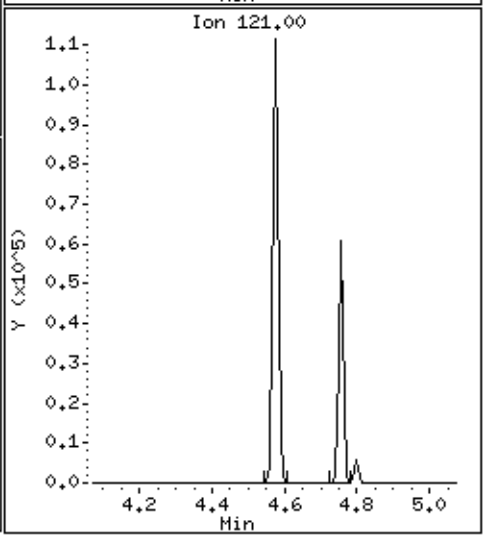


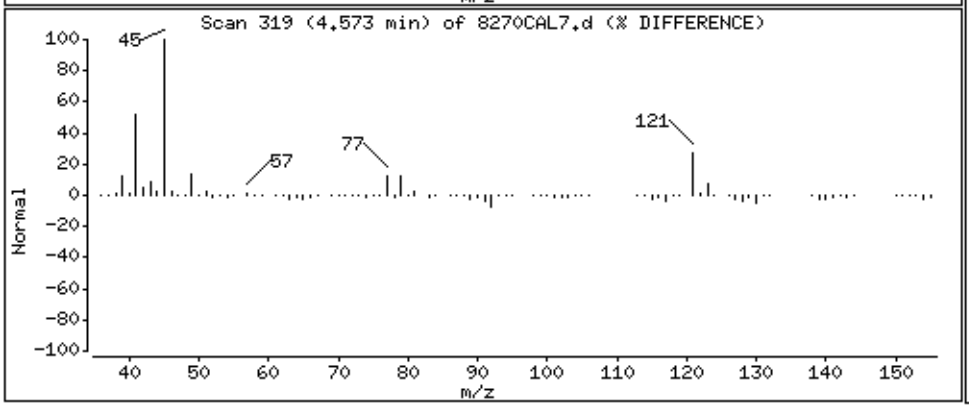












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

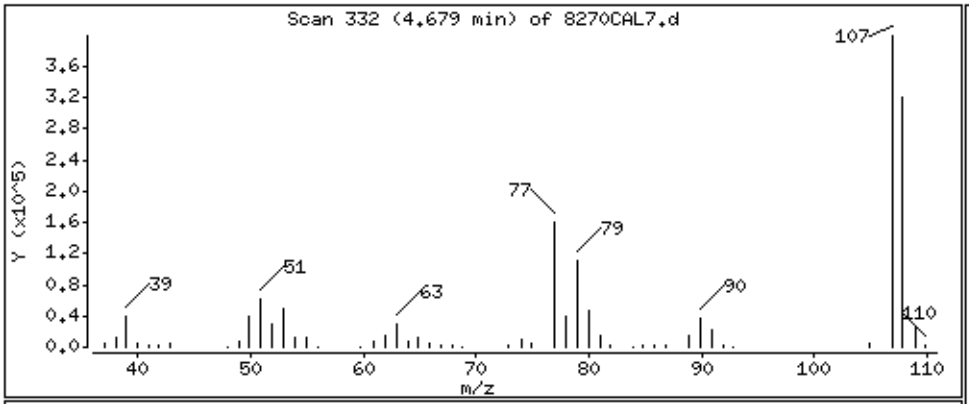
Sample Info: 47763

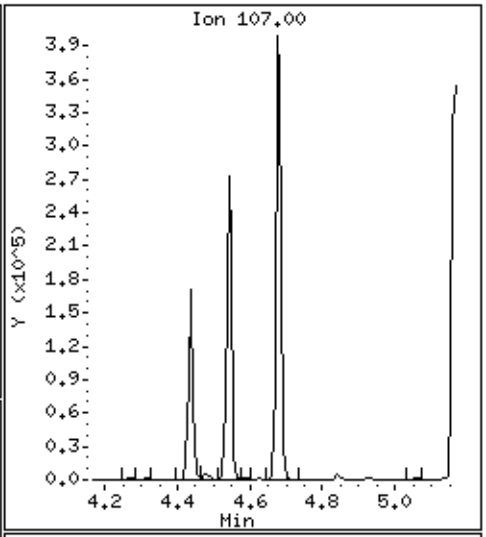
Operator: MJ

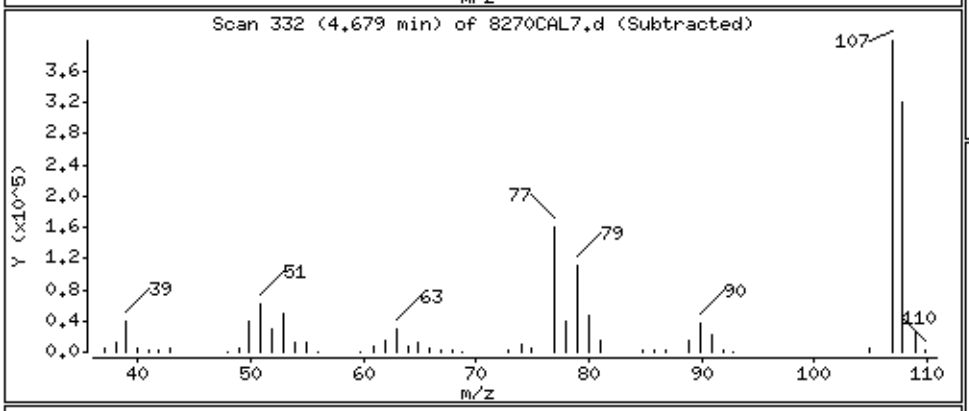
Column phase: HPMS-5

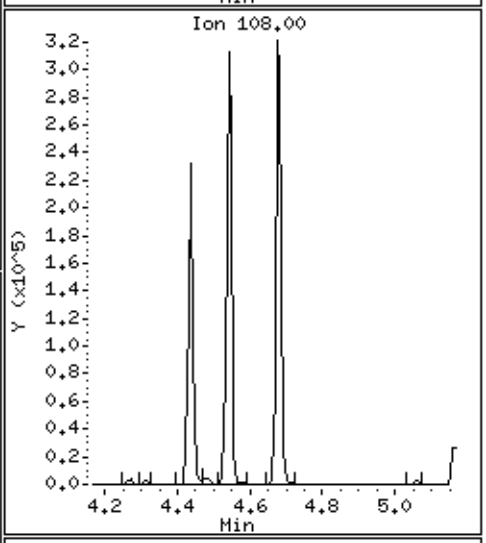
Column diameter: 0.25

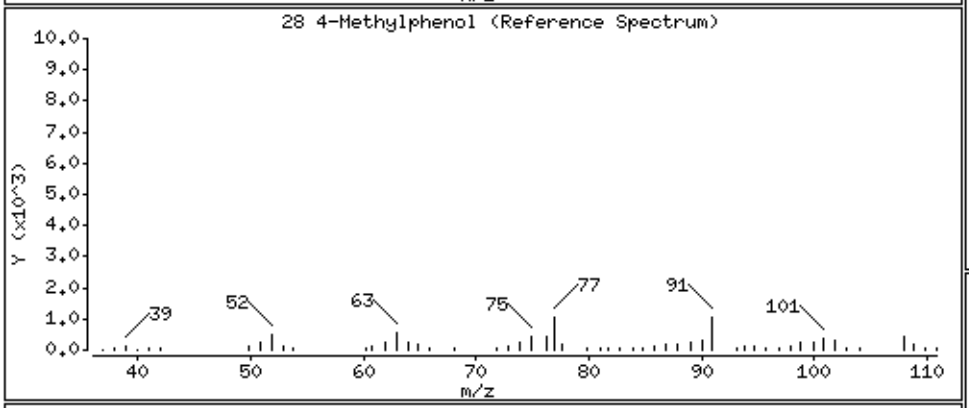
28 4-Methylphenol

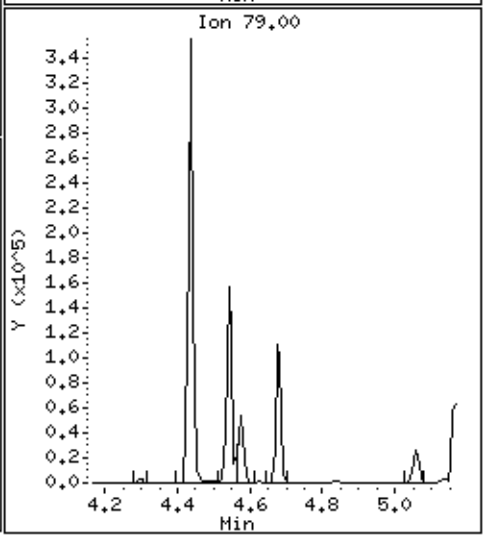


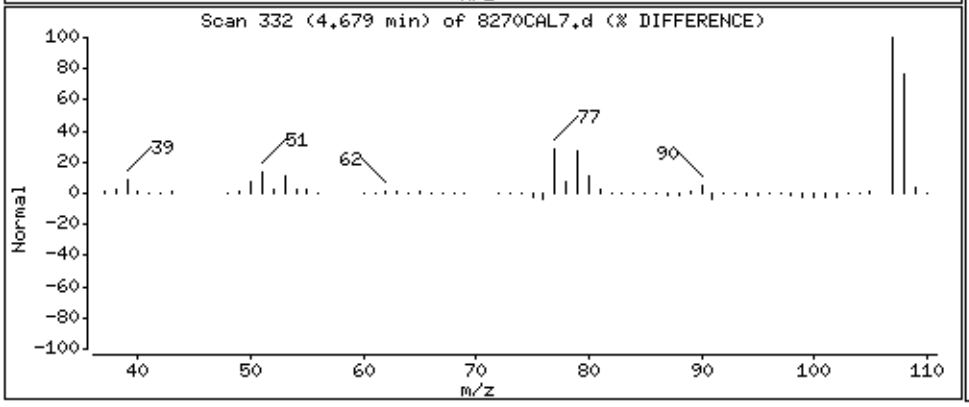












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

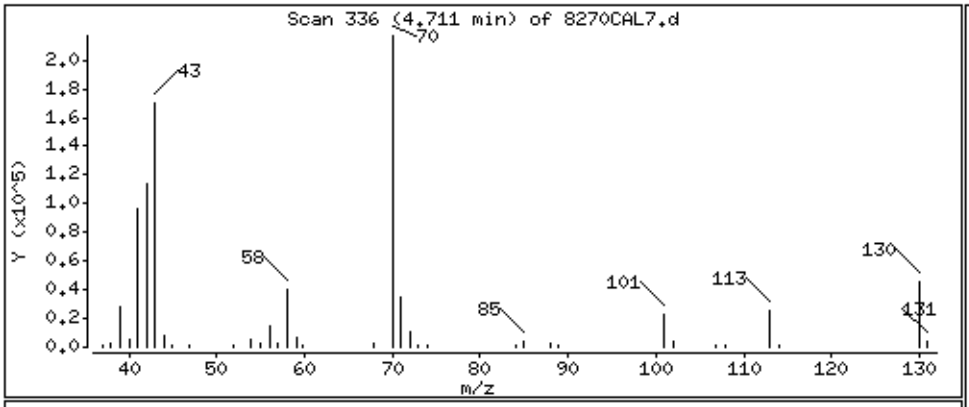
Sample Info: 47763

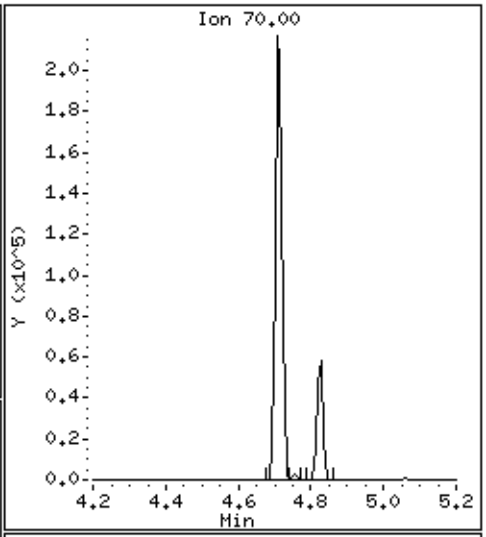
Operator: MJ

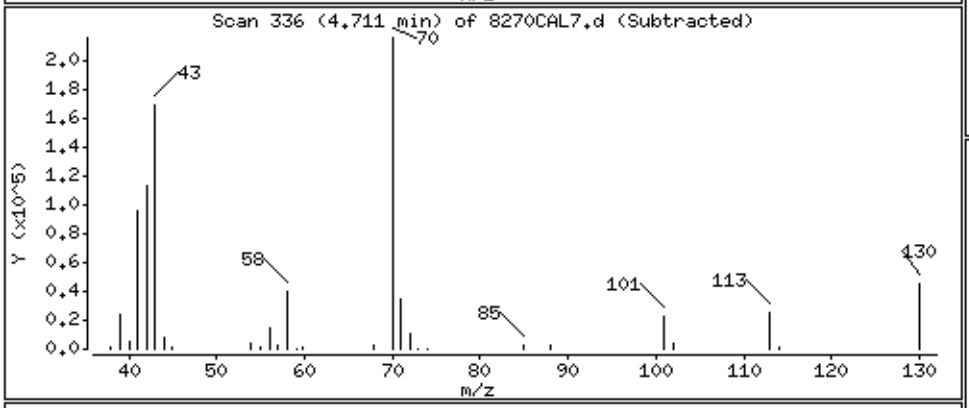
Column phase: HPMS-5

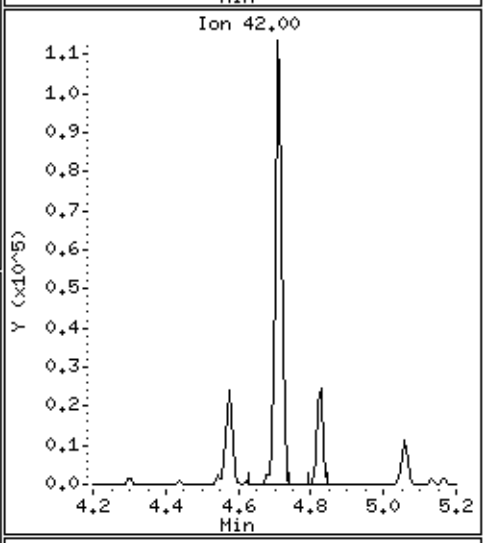
Column diameter: 0.25

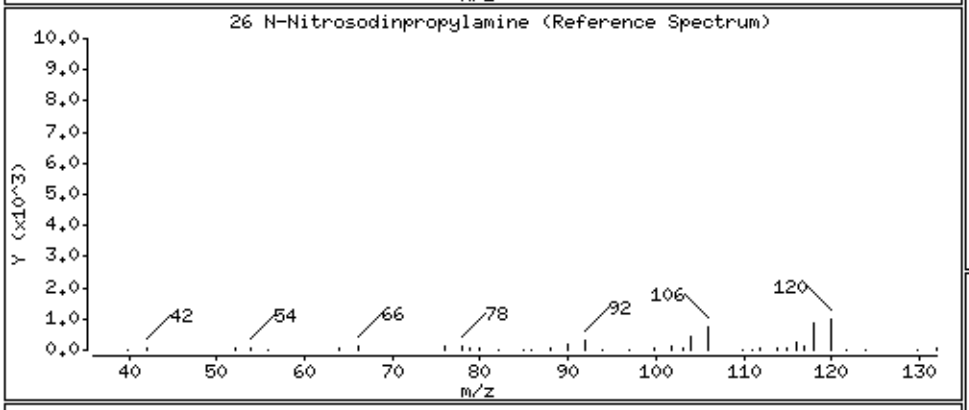
26 N-Nitrosodinpropylamine

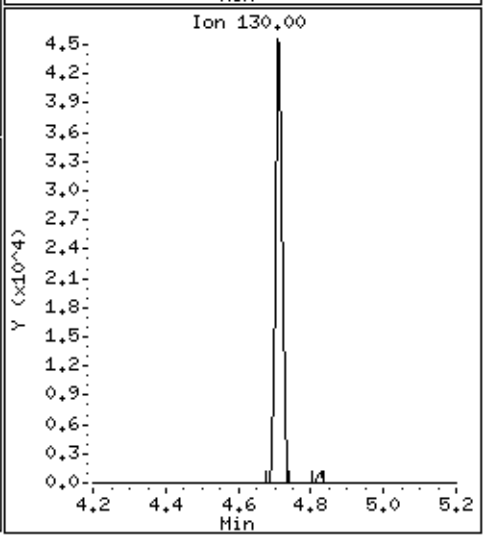


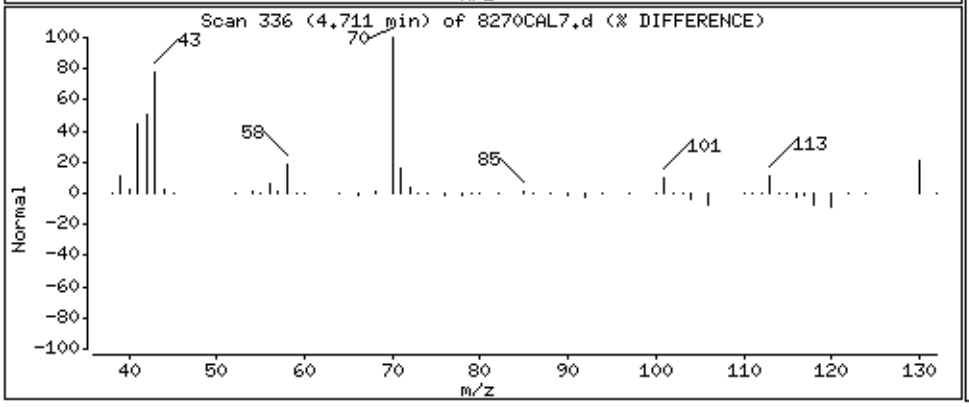












Date : 14-NOV-2012 22:40

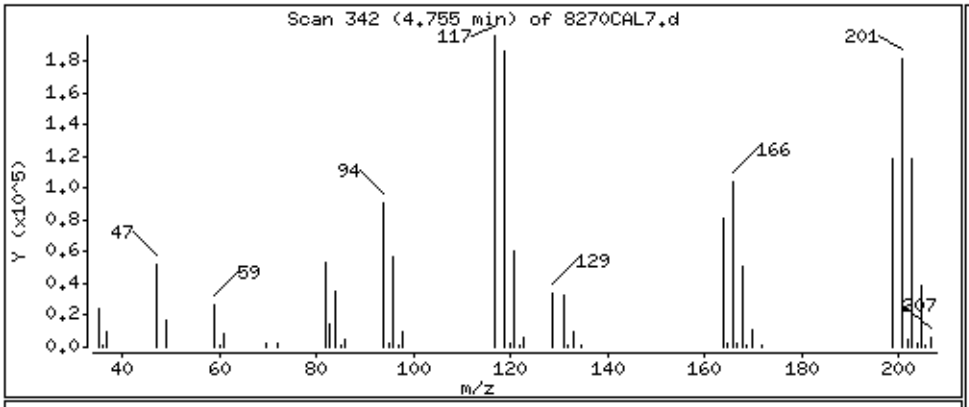
Client ID: 8270CAL7 Instrument: smsd04.i

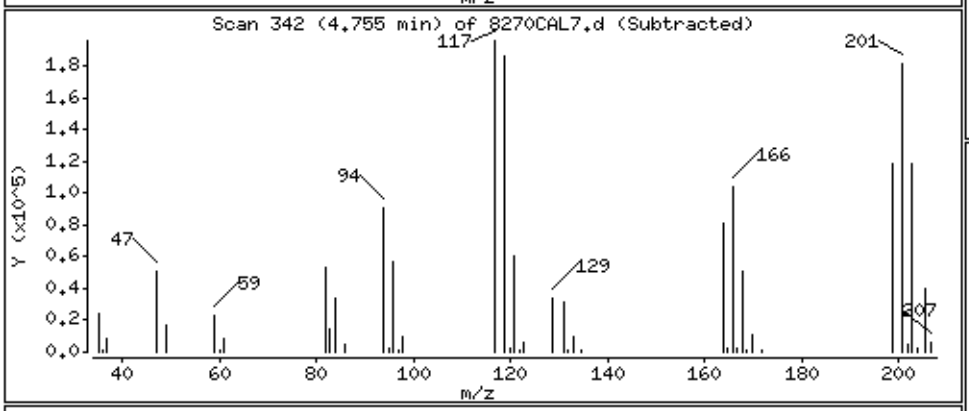
Sample Info: 47763

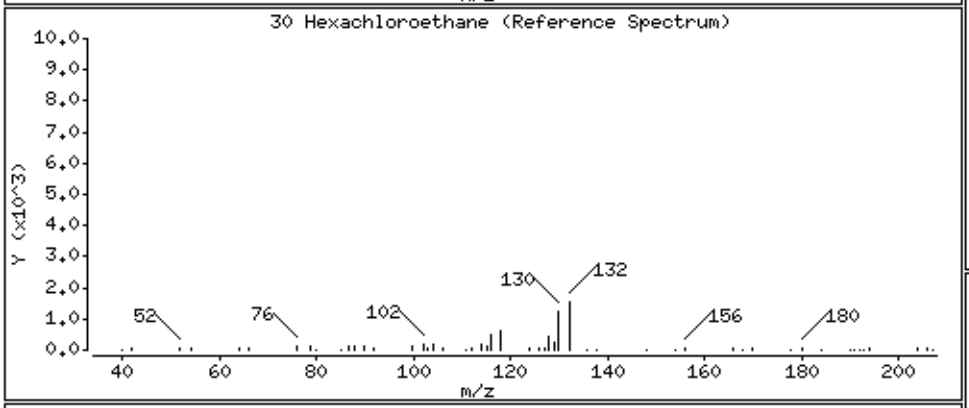
Operator: MJ

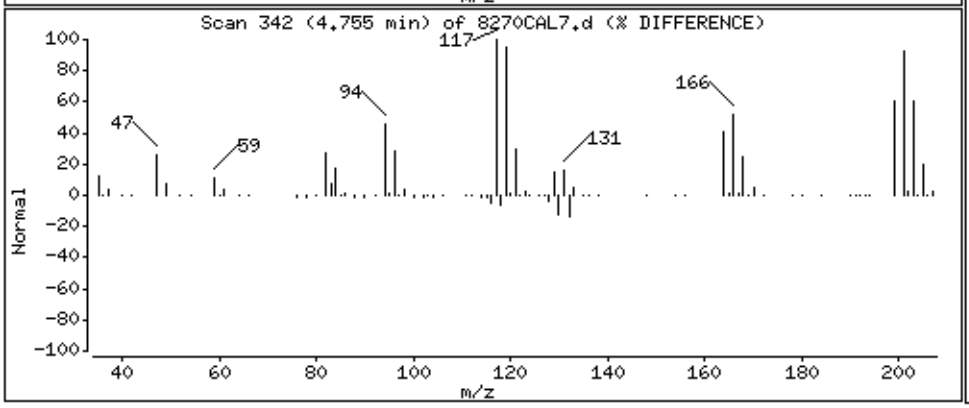
Column phase: HPMS-5 Column diameter: 0.25

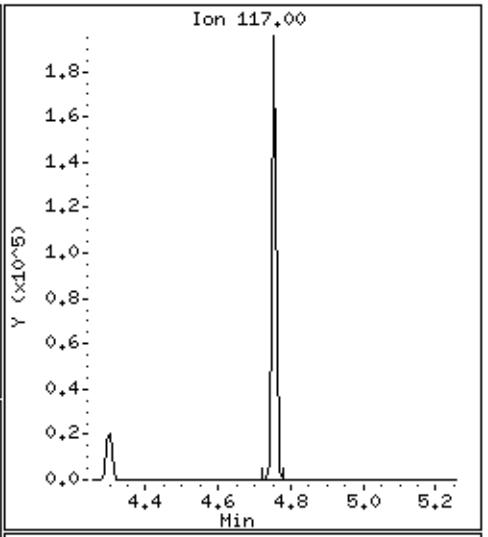
30 Hexachloroethane

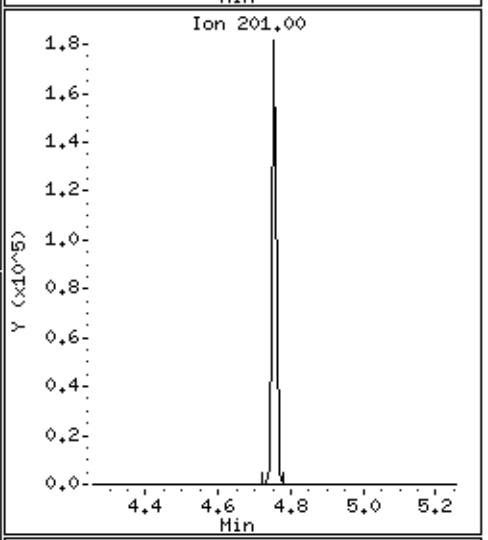


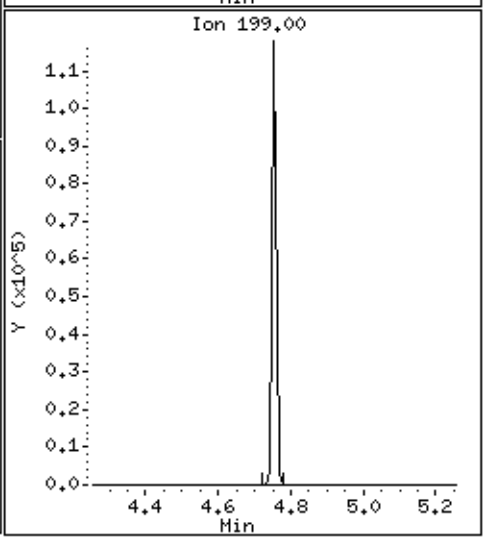












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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

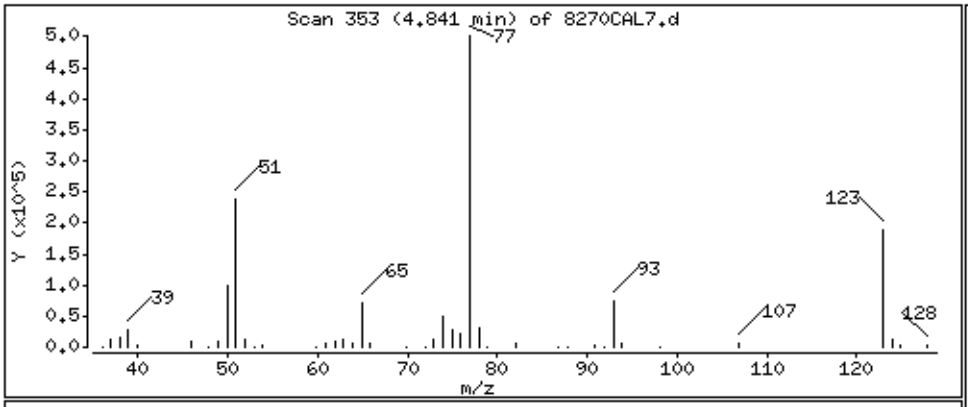
Sample Info: 47763

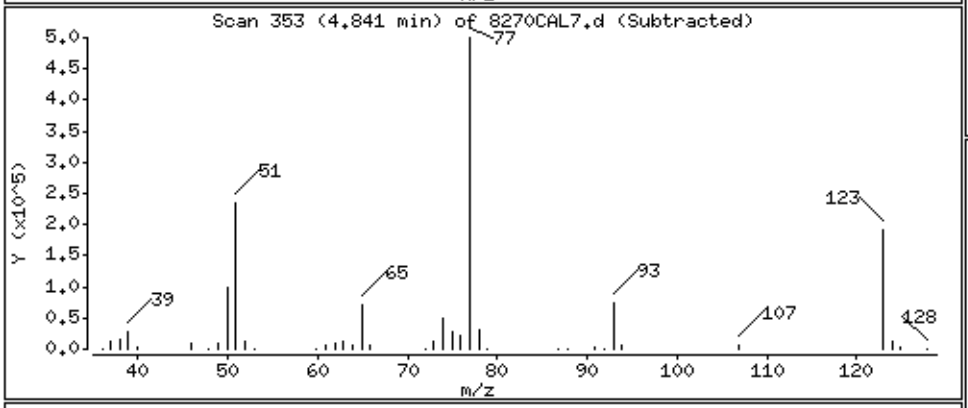
Operator: MJ

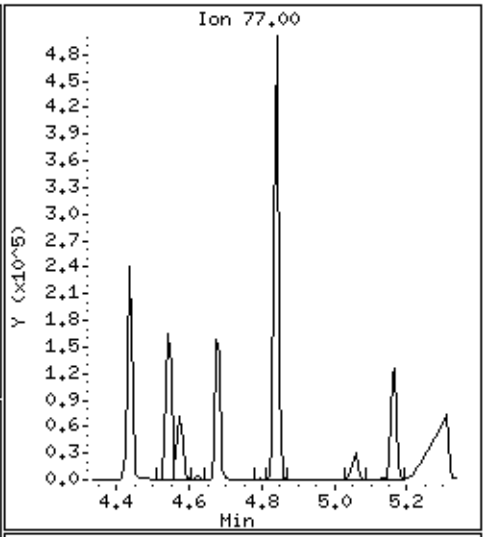
Column phase: HPMS-5

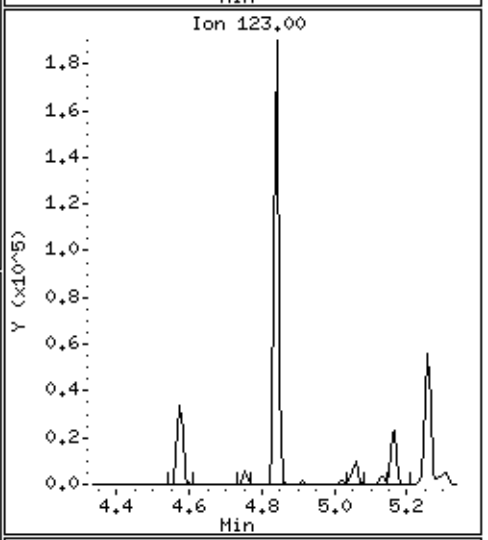
Column diameter: 0.25

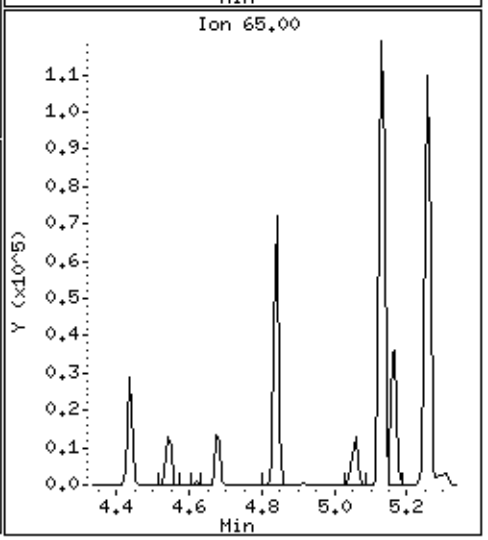
32 Nitrobenzene











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

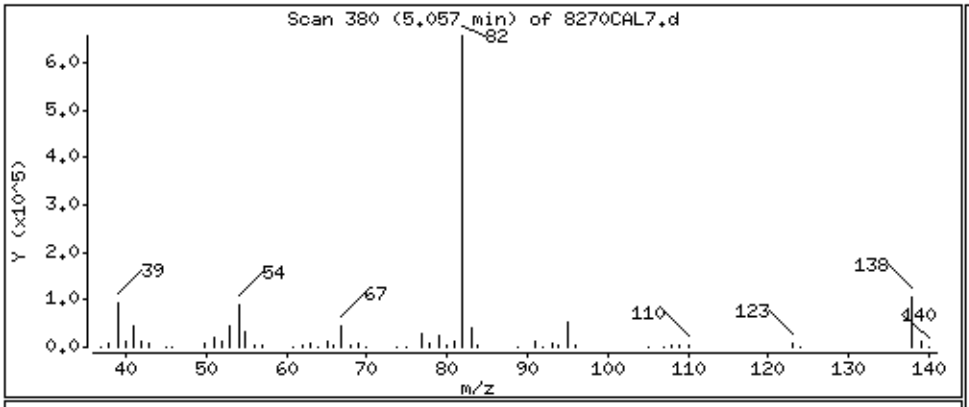
Sample Info: 47763

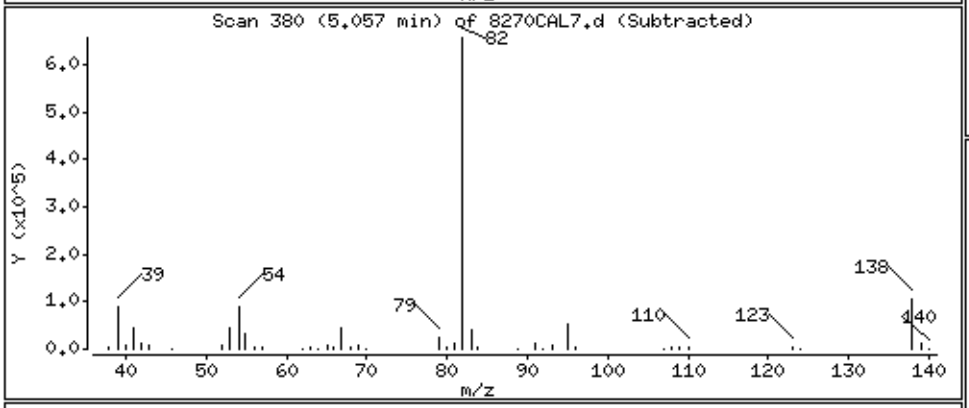
Operator: MJ

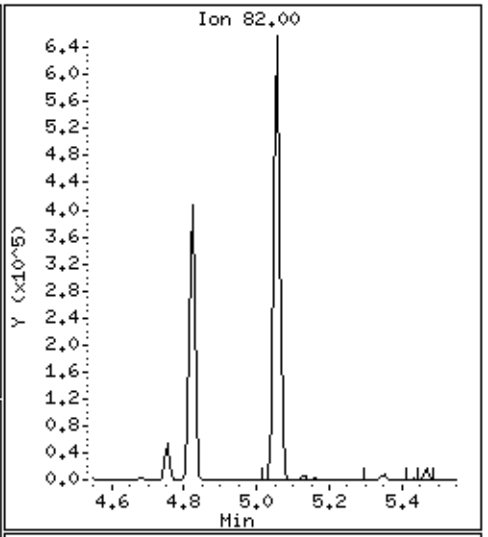
Column phase: HPMS-5

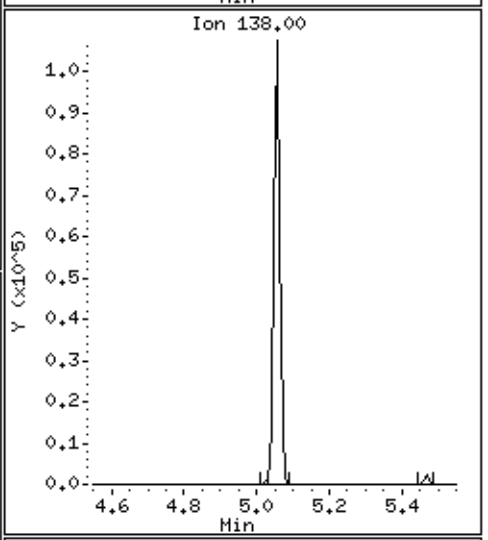
Column diameter: 0.25

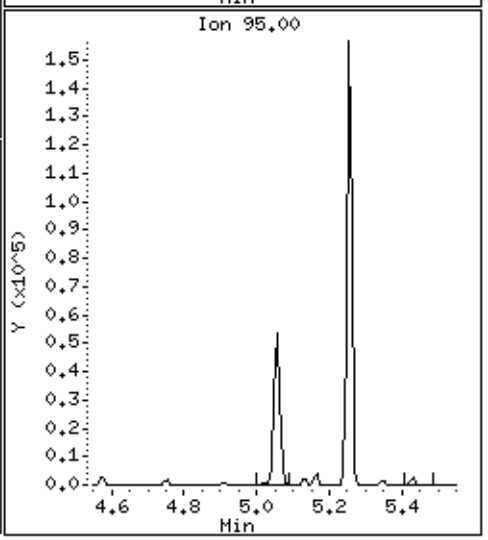
34 Isophorone











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

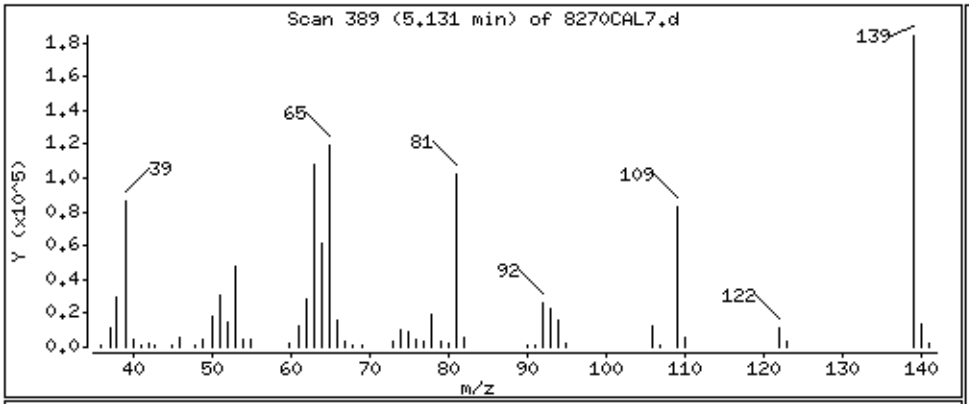
Sample Info: 47763

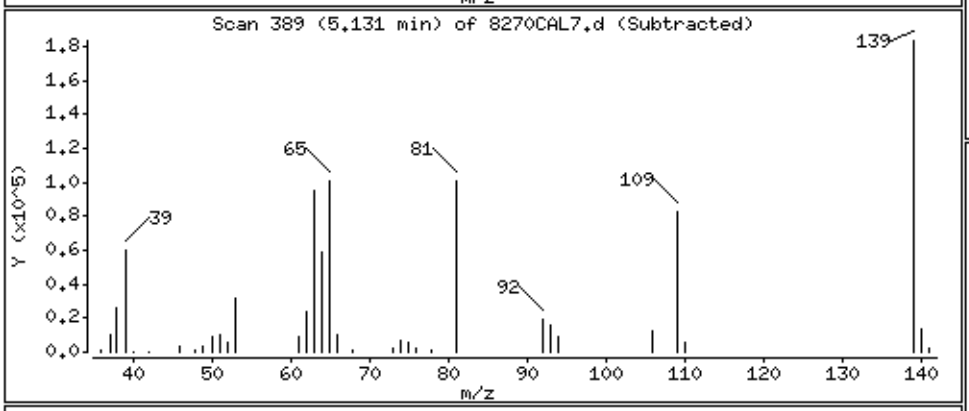
Operator: MJ

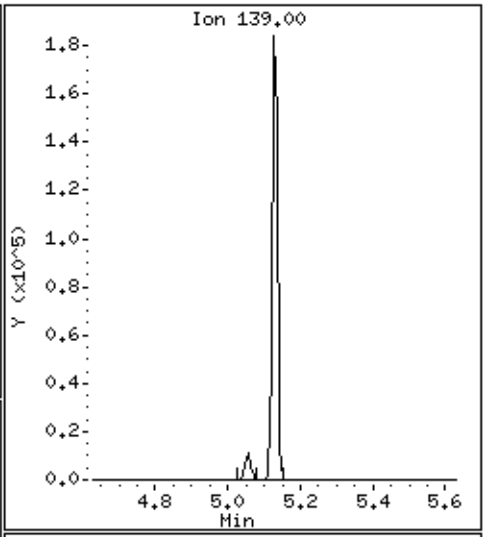
Column phase: HPMS-5

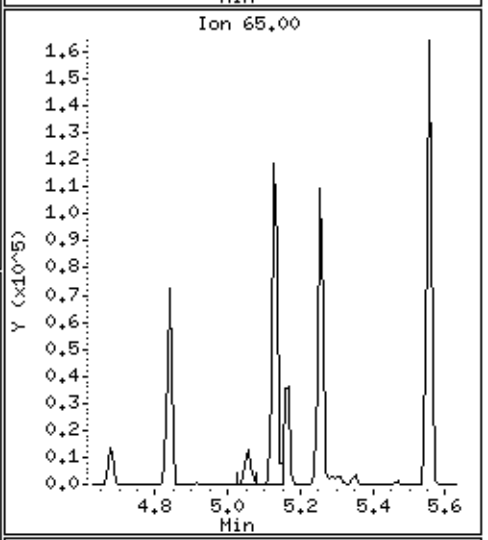
Column diameter: 0.25

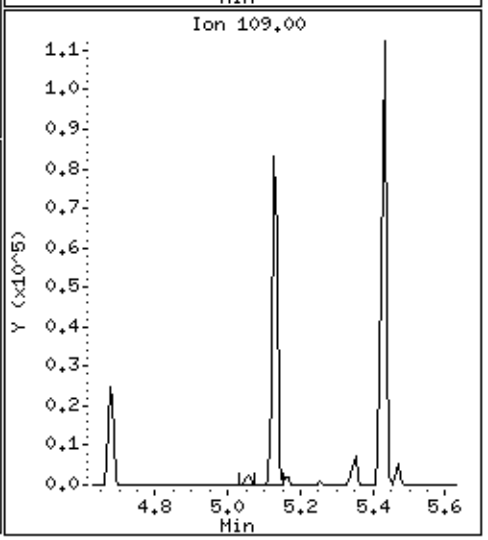
35 2-Nitrophenol











Date : 14-NOV-2012 22:40

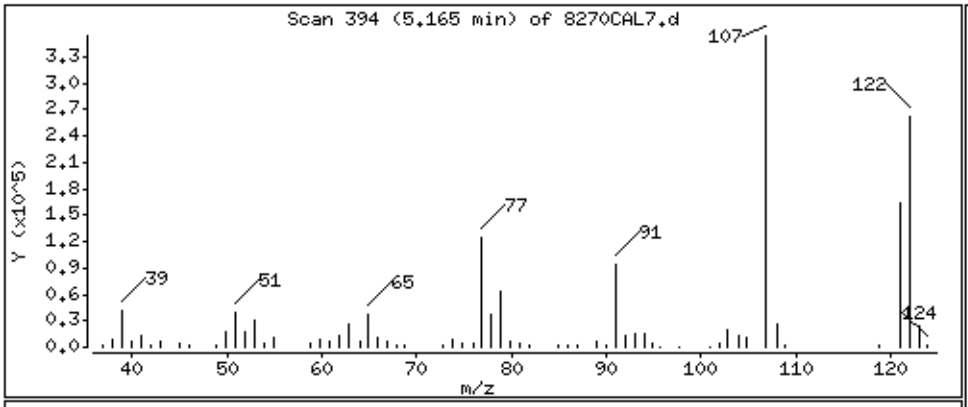
Client ID: 8270CAL7 Instrument: smsd04.i

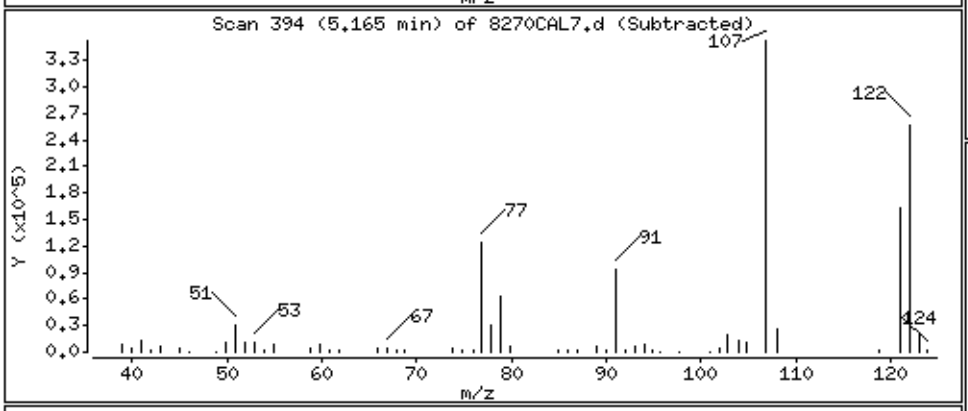
Sample Info: 47763

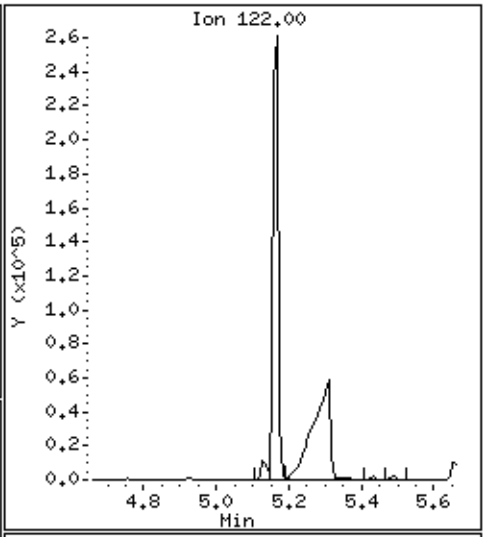
Operator: MJ

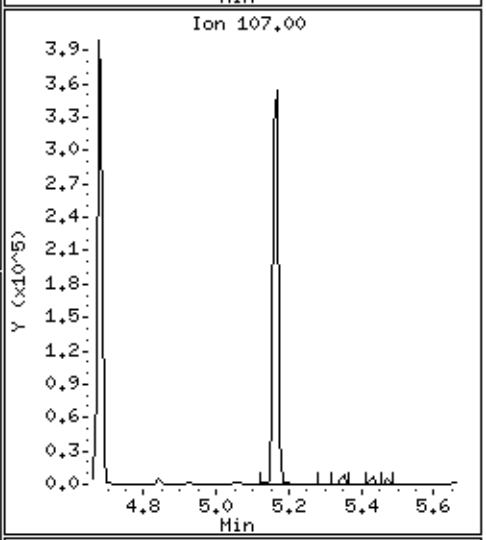
Column phase: HPMS-5 Column diameter: 0.25

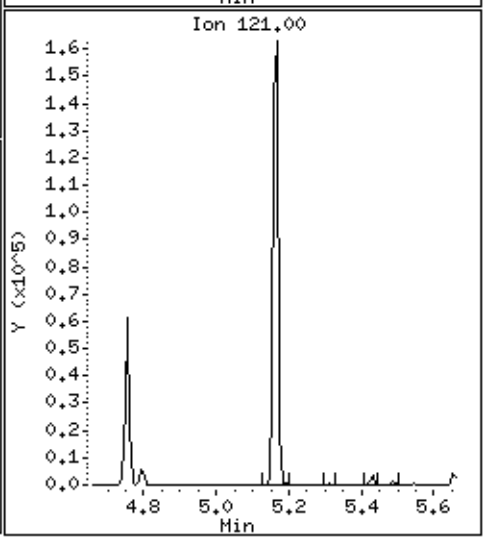
36 2,4-Dimethylphenol











Date : 14-NOV-2012 22:40

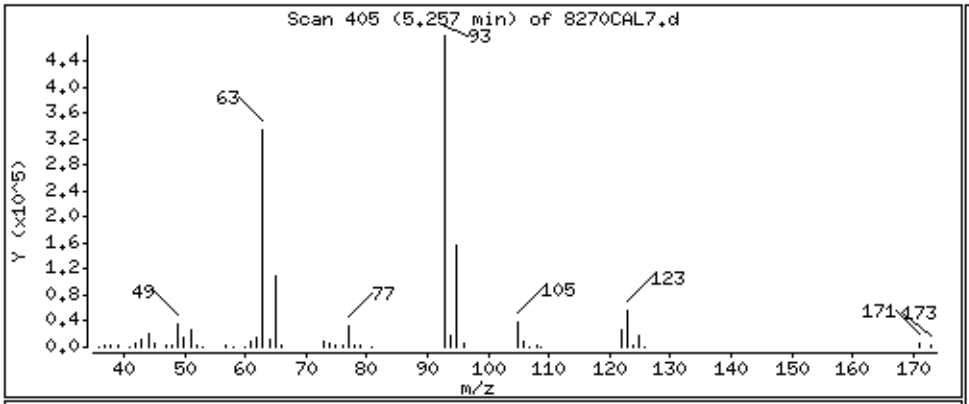
Client ID: 8270CAL7 Instrument: smsd04.i

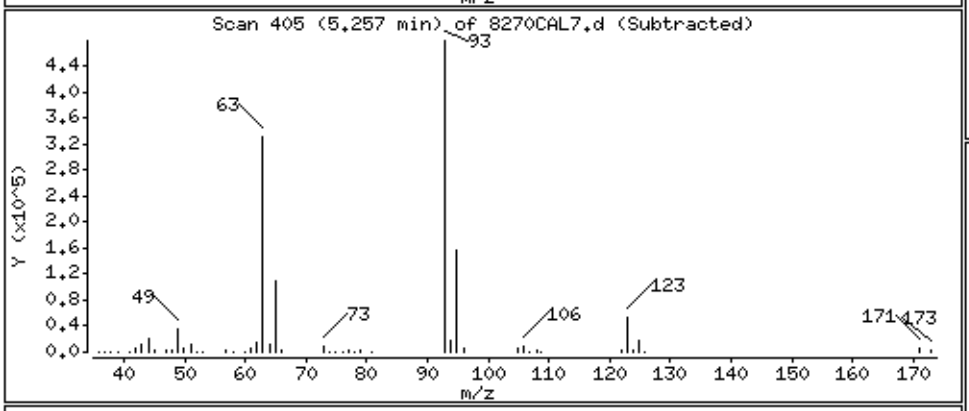
Sample Info: 47763

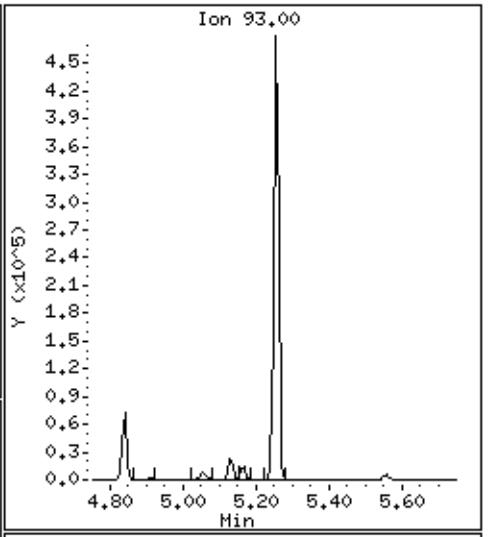
Operator: MJ

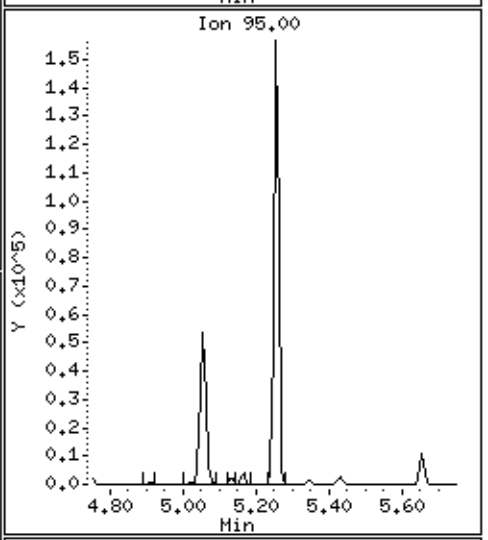
Column phase: HPMS-5 Column diameter: 0.25

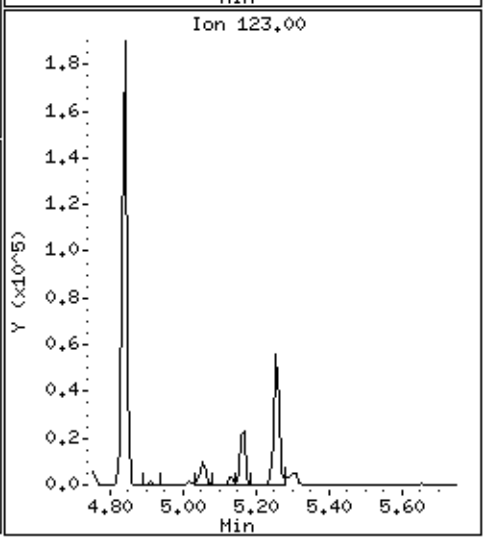
38 Bis(2-Chloroethoxy)methane











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

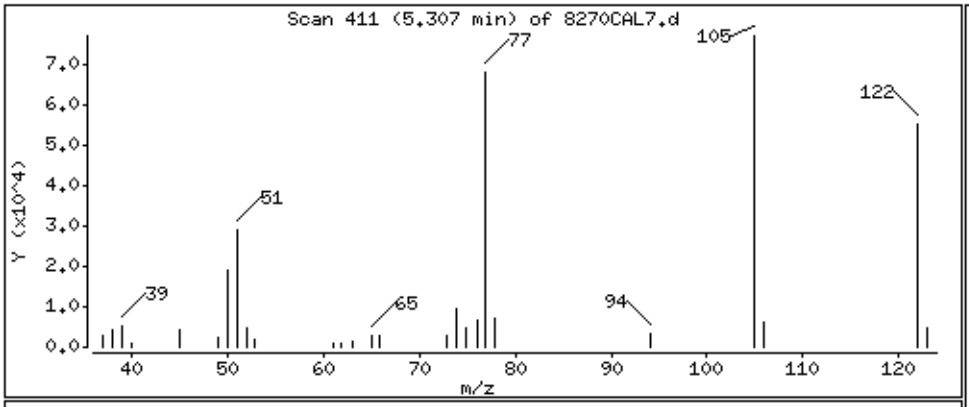
Sample Info: 47763

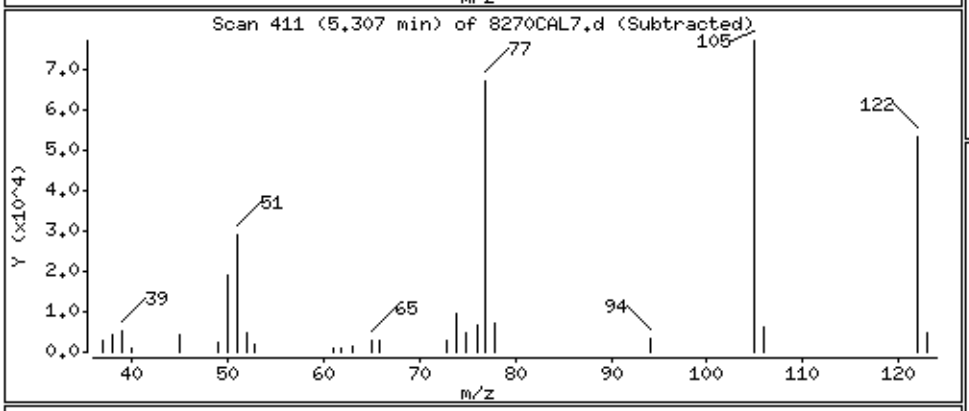
Operator: MJ

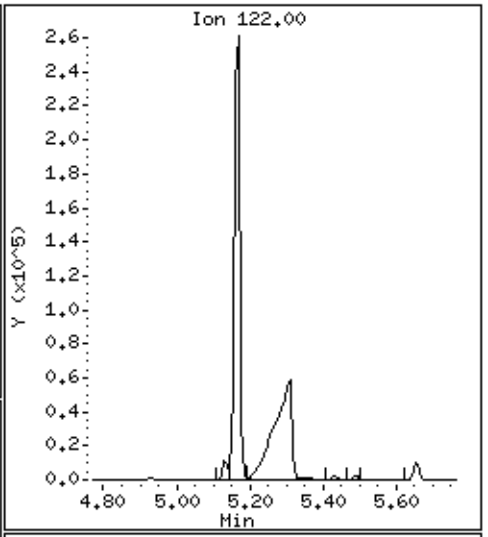
Column phase: HPMS-5

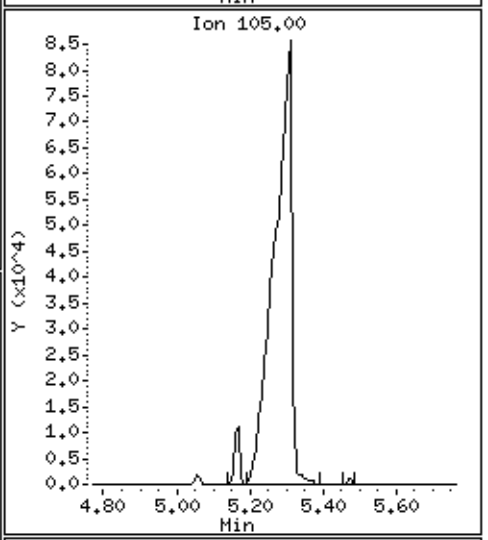
Column diameter: 0.25

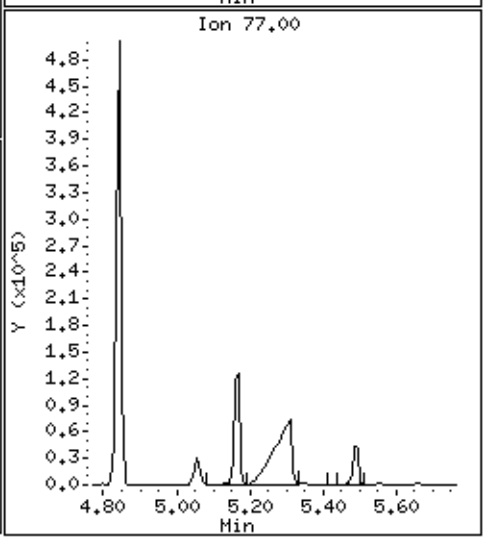
40 Benzoic Acid











Date : 14-NOV-2012 22:40

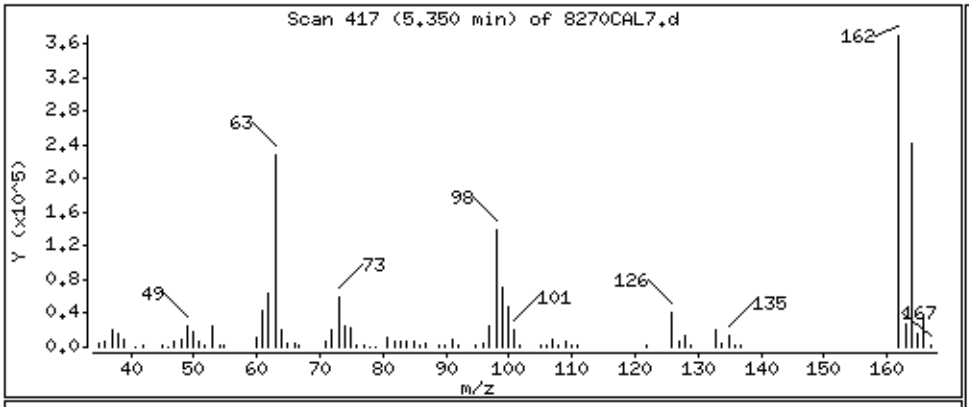
Client ID: 8270CAL7 Instrument: smsd04.i

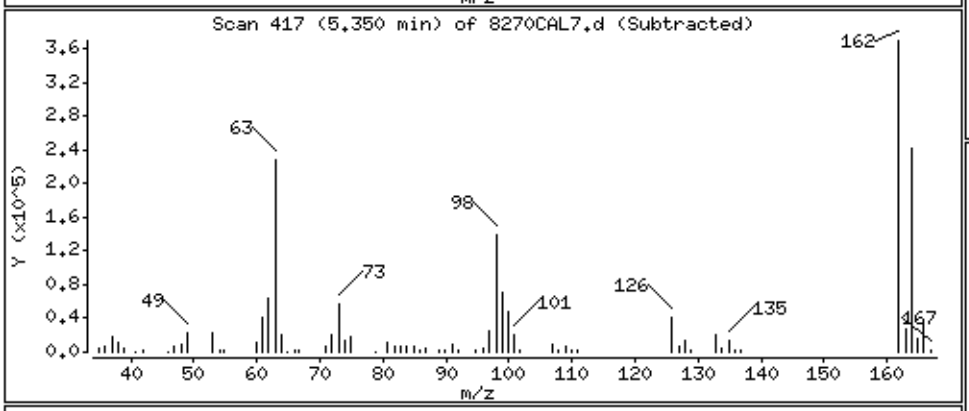
Sample Info: 47763

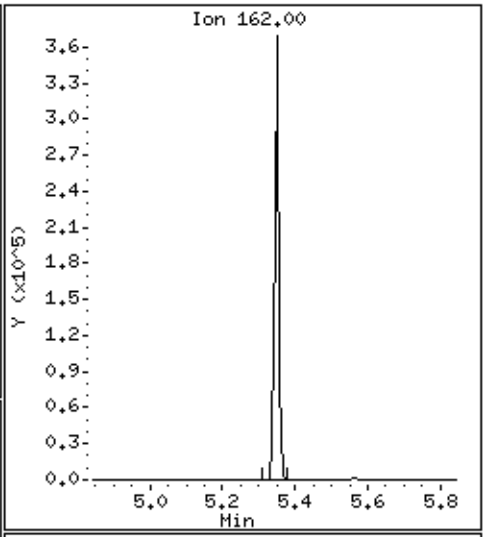
Operator: MJ

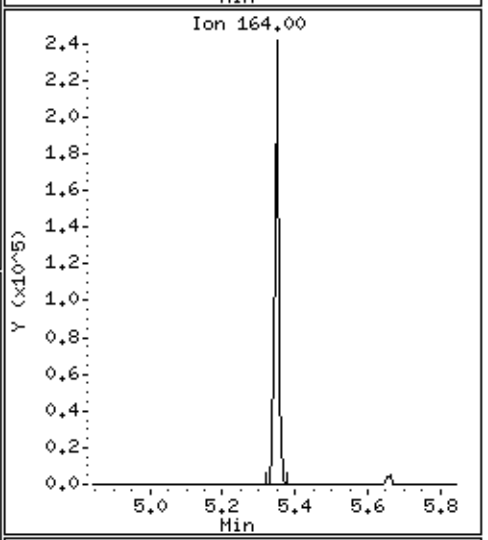
Column phase: HPMS-5 Column diameter: 0.25

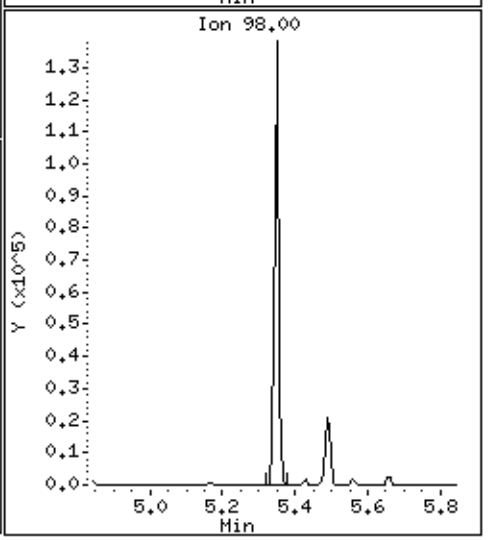
41 2,4-Dichlorophenol











Date : 14-NOV-2012 22:40

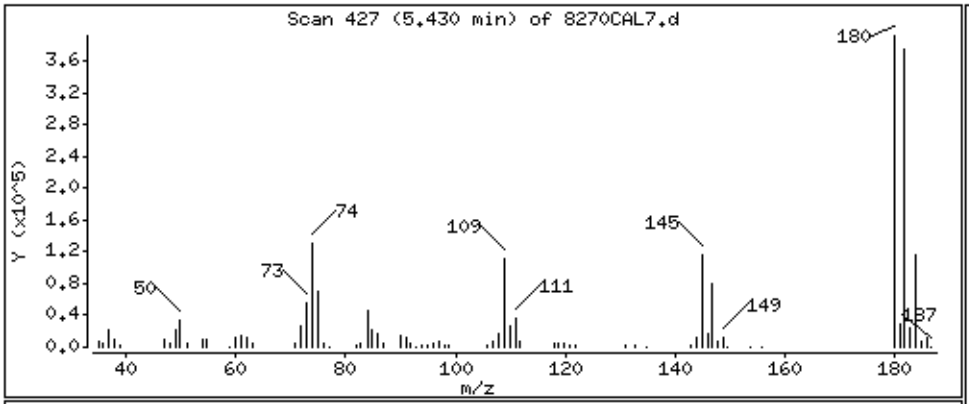
Client ID: 8270CAL7 Instrument: smsd04.i

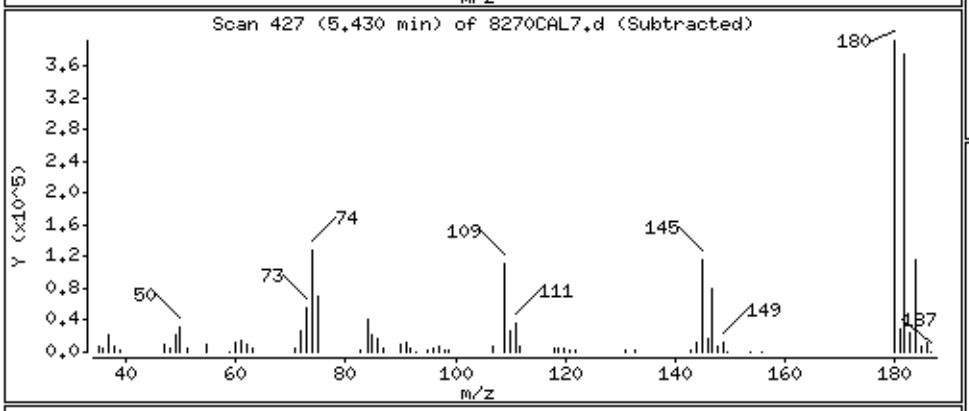
Sample Info: 47763

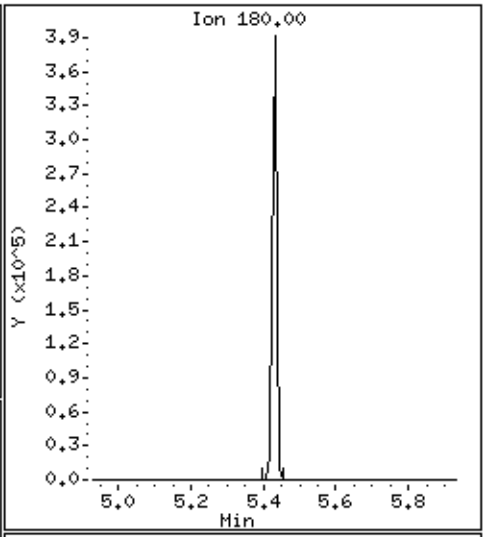
Operator: MJ

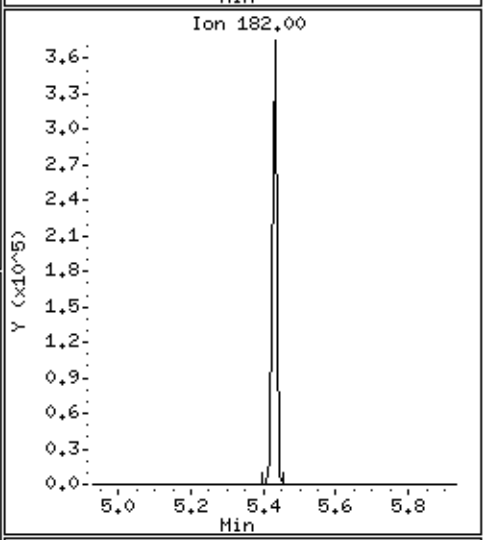
Column phase: HPMS-5 Column diameter: 0.25

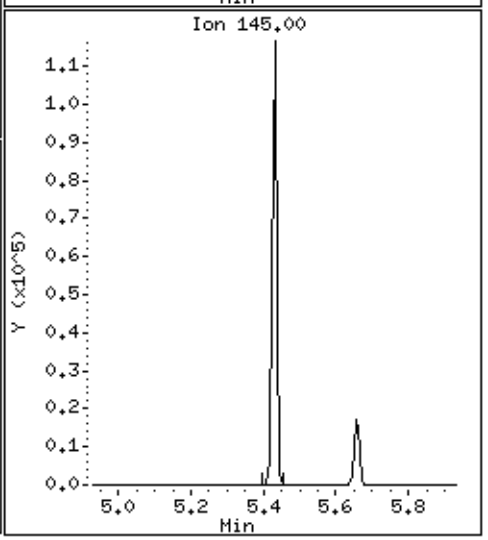
42 1,2,4-Trichlorobenzene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

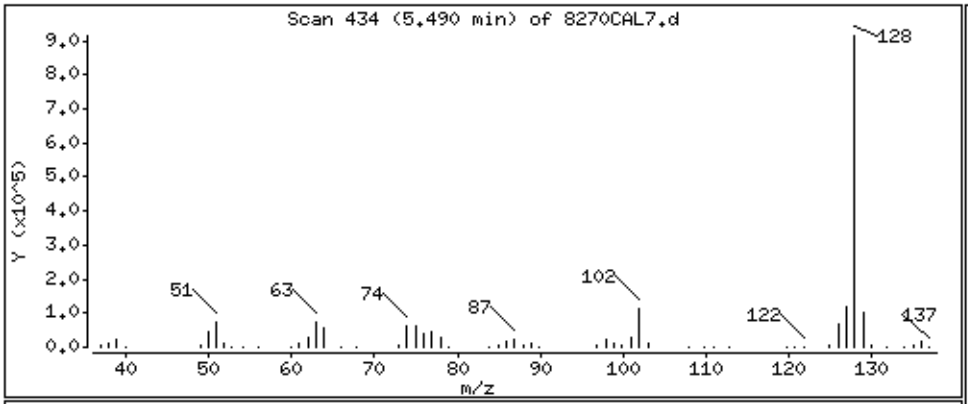
Sample Info: 47763

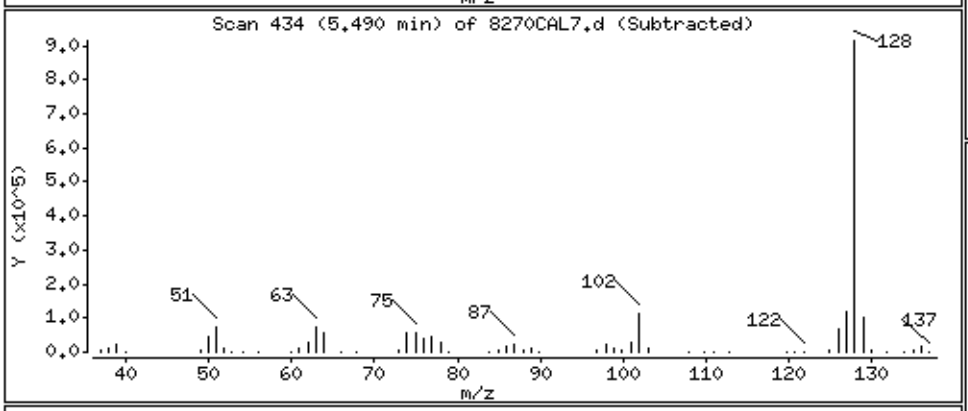
Operator: MJ

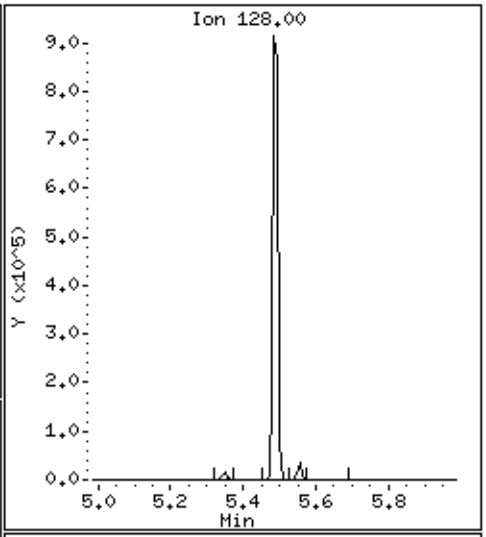
Column phase: HPMS-5

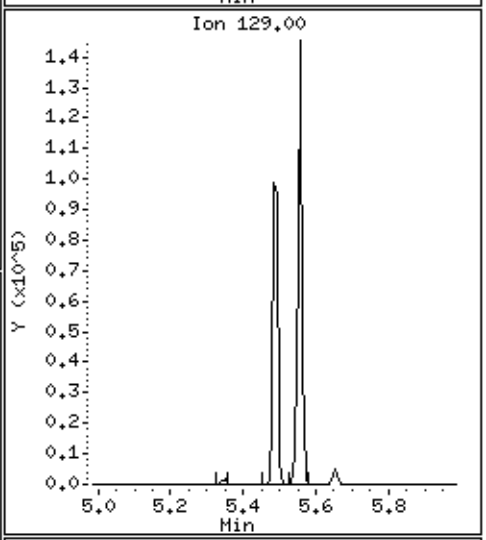
Column diameter: 0.25

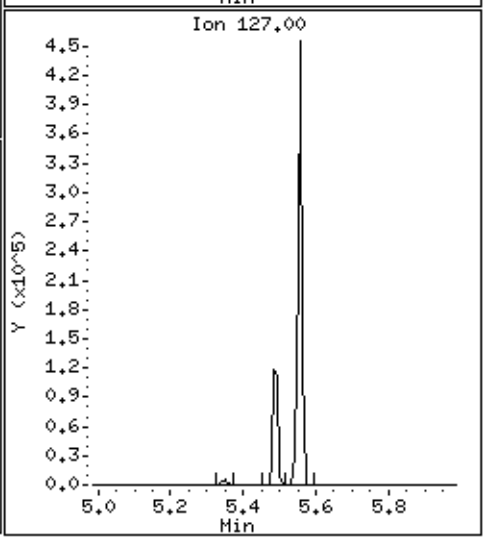
44 Naphthalene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

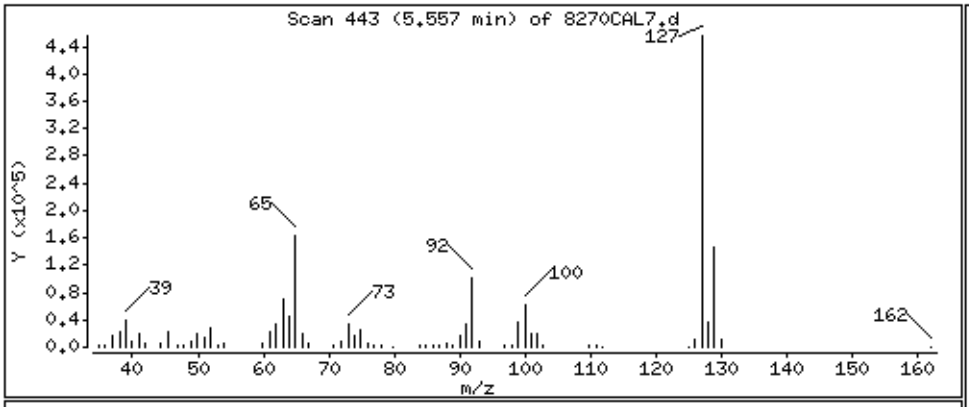
Sample Info: 47763

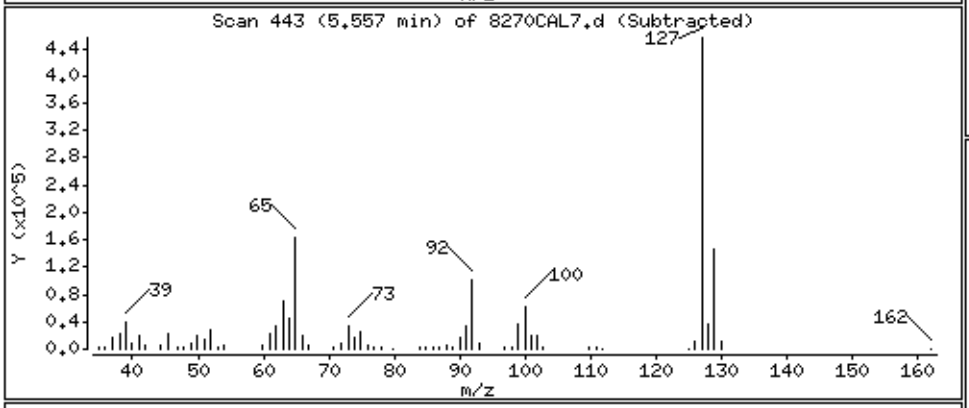
Operator: MJ

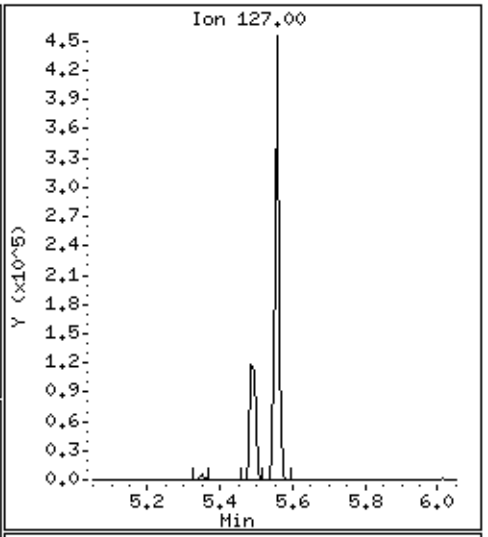
Column phase: HPMS-5

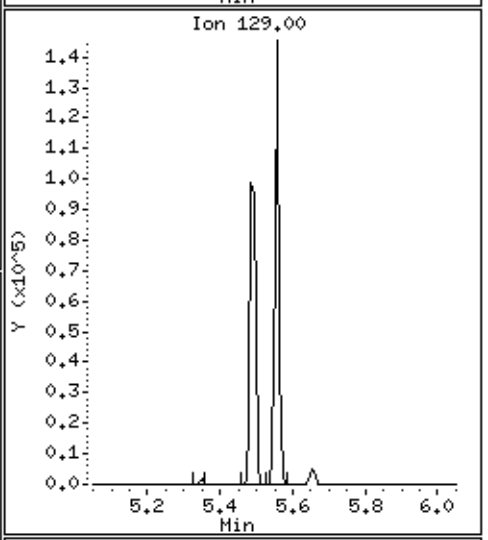
Column diameter: 0.25

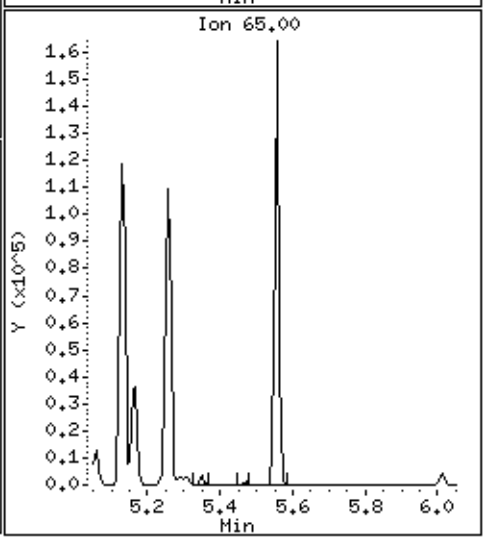
45 4-Chloroaniline











Date : 14-NOV-2012 22:40

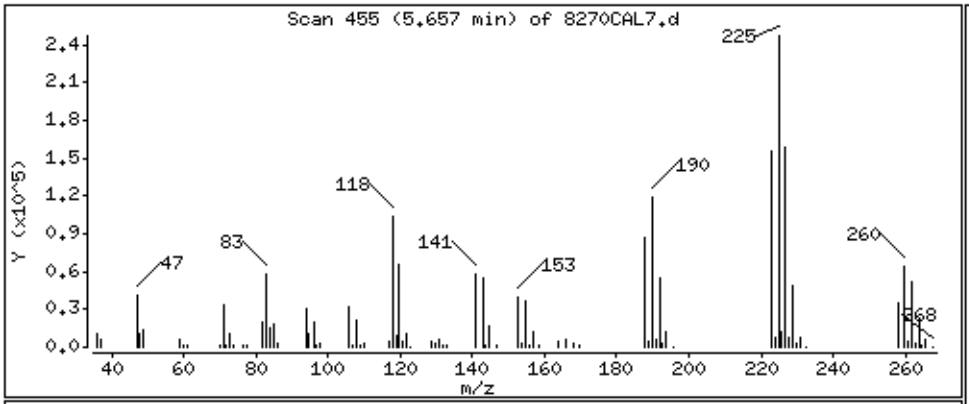
Client ID: 8270CAL7 Instrument: smsd04.i

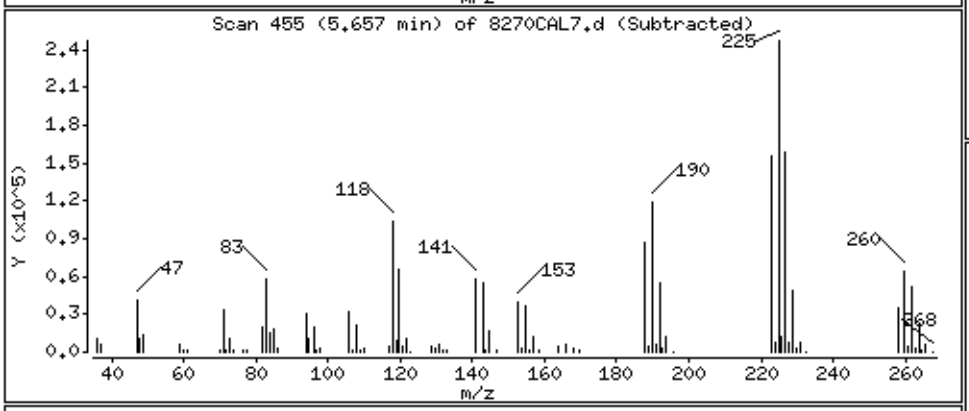
Sample Info: 47763

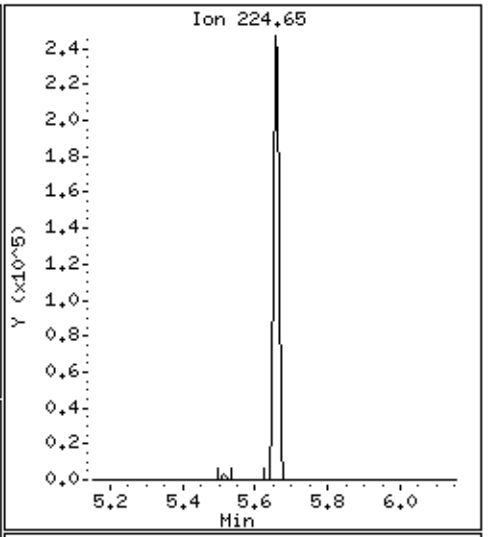
Operator: MJ

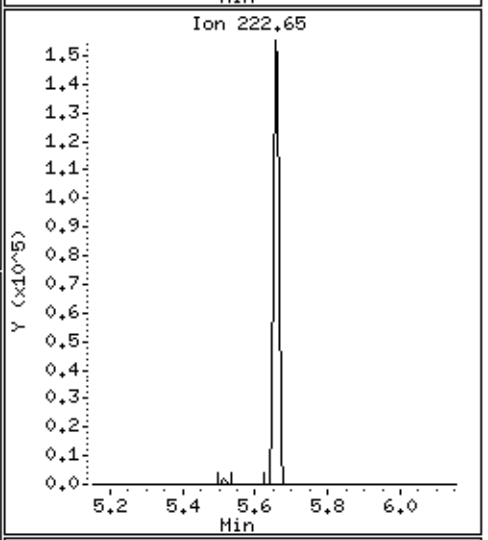
Column phase: HPMS-5 Column diameter: 0.25

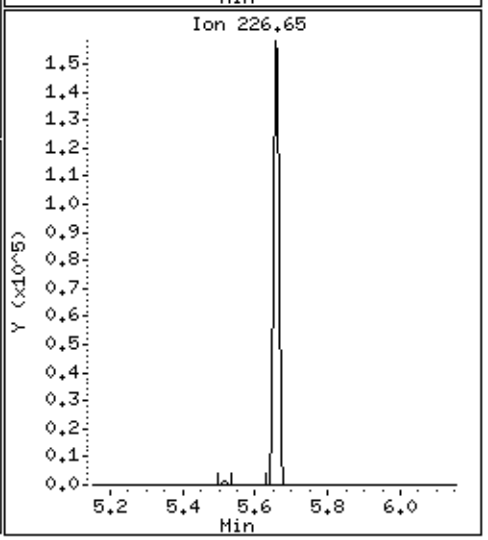
48 Hexachlorobutadiene











Date : 14-NOV-2012 22:40

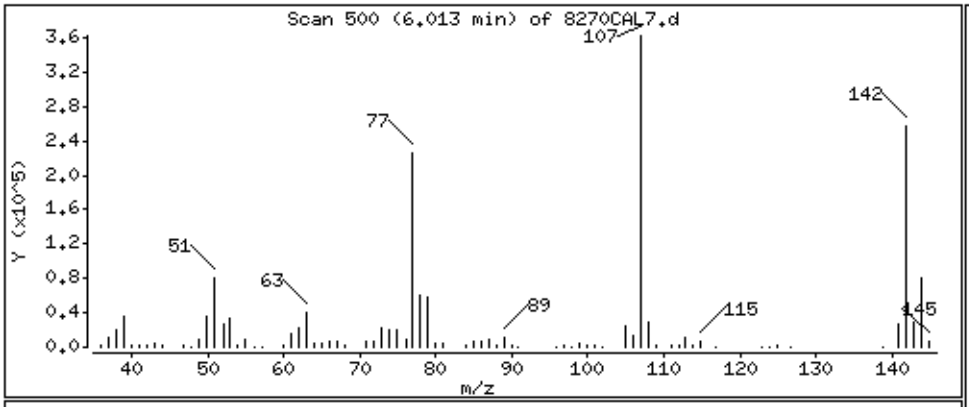
Client ID: 8270CAL7 Instrument: smsd04.i

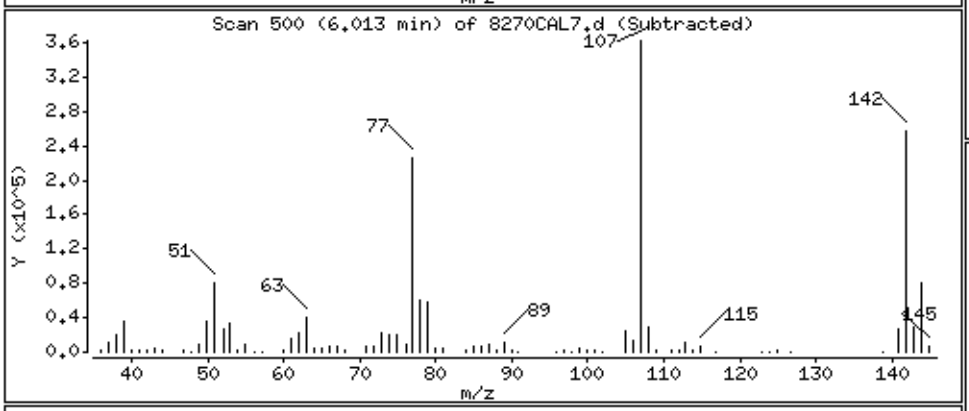
Sample Info: 47763

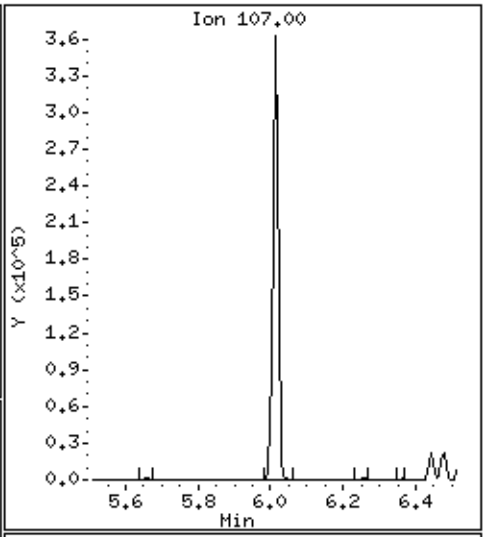
Operator: MJ

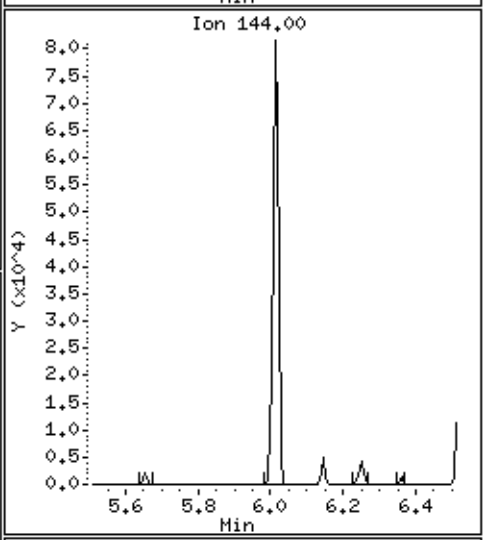
Column phase: HPMS-5 Column diameter: 0.25

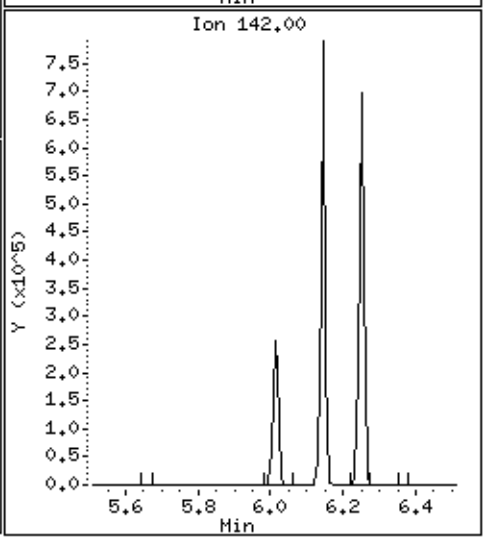
51 4-Chloro-3-methylphenol











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

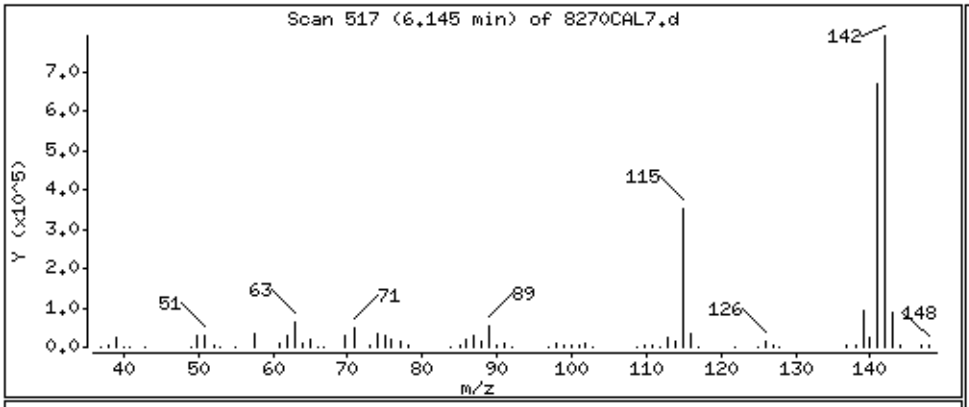
Sample Info: 47763

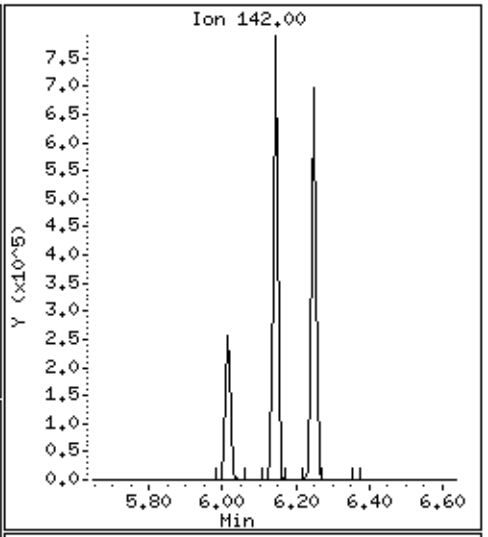
Operator: MJ

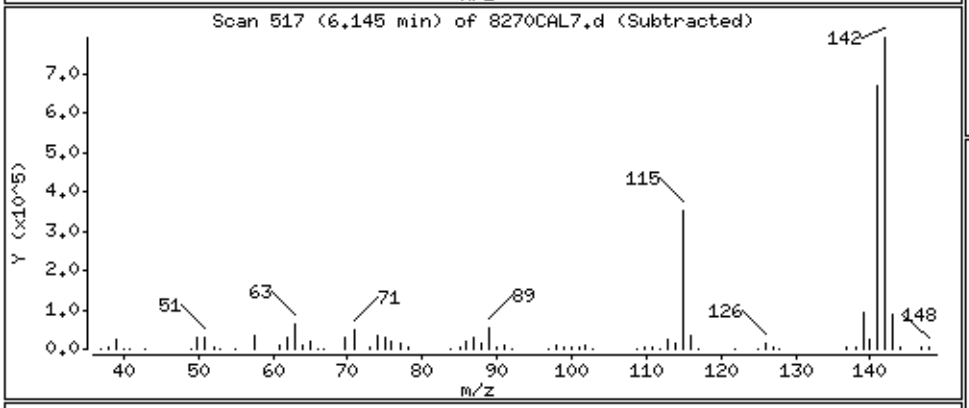
Column phase: HPMS-5

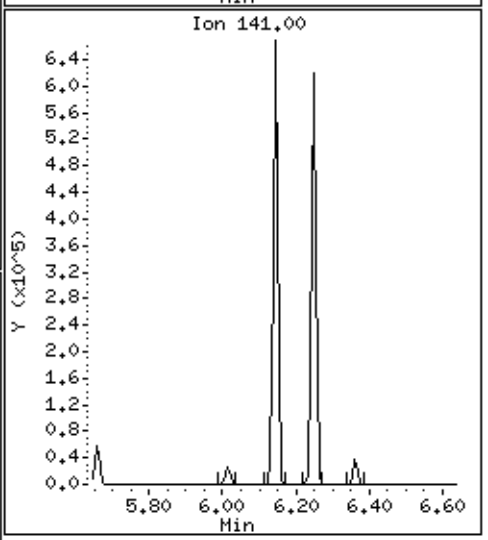
Column diameter: 0.25

53 2-Methylnaphthalene









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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

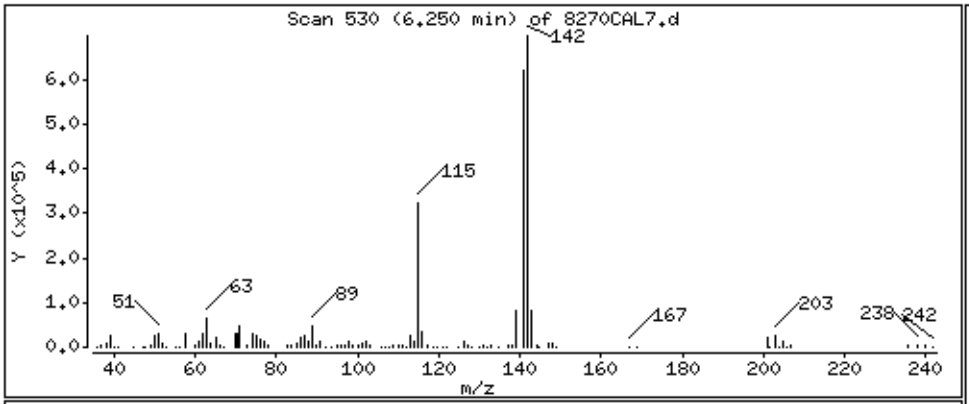
Sample Info: 47763

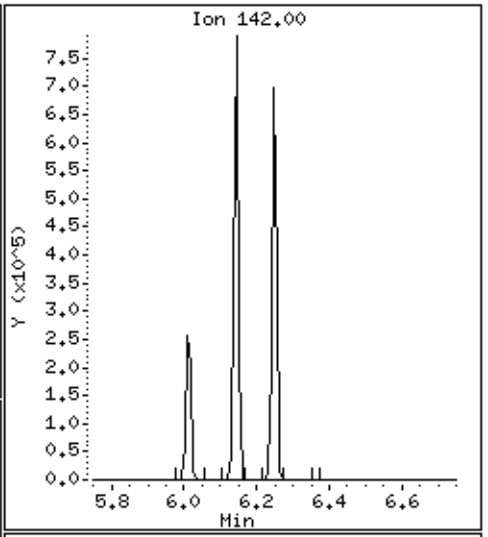
Operator: MJ

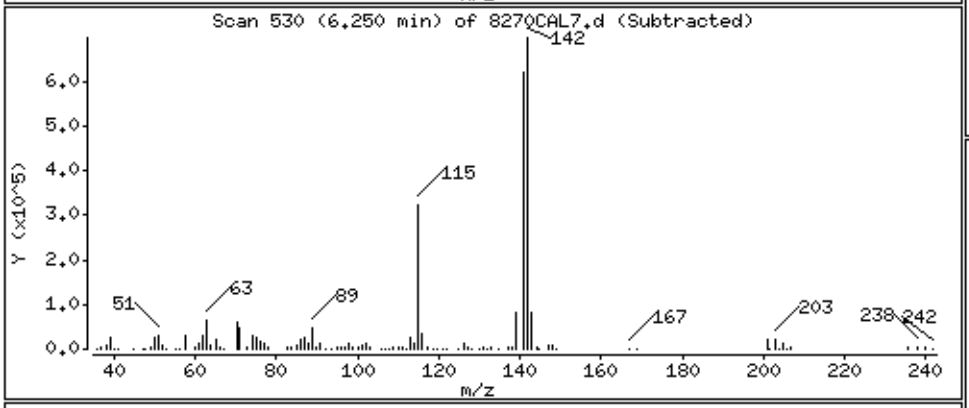
Column phase: HPMS-5

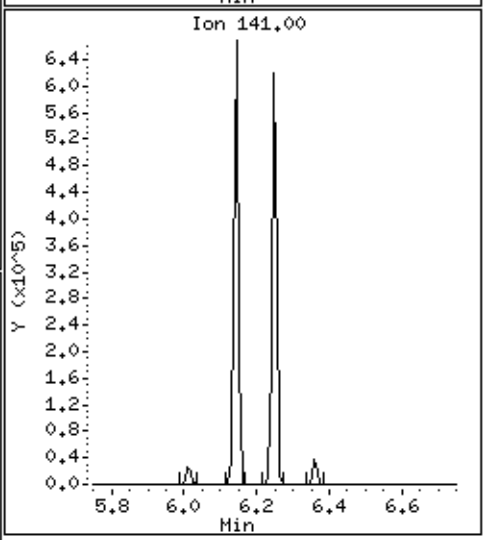
Column diameter: 0.25

54 1-Methylnaphthalene









Date : 14-NOV-2012 22:40

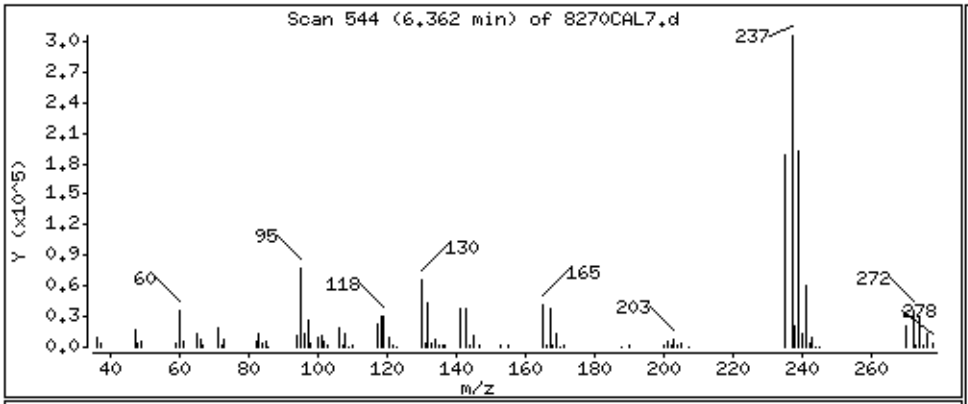
Client ID: 8270CAL7 Instrument: smsd04.i

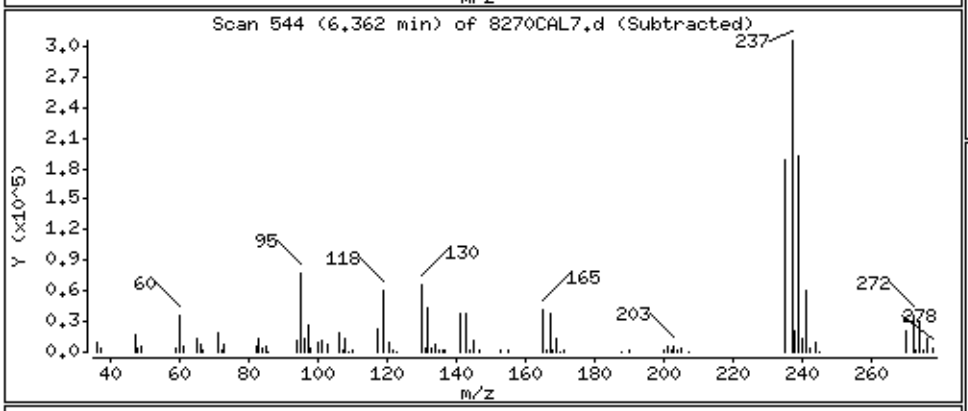
Sample Info: 47763

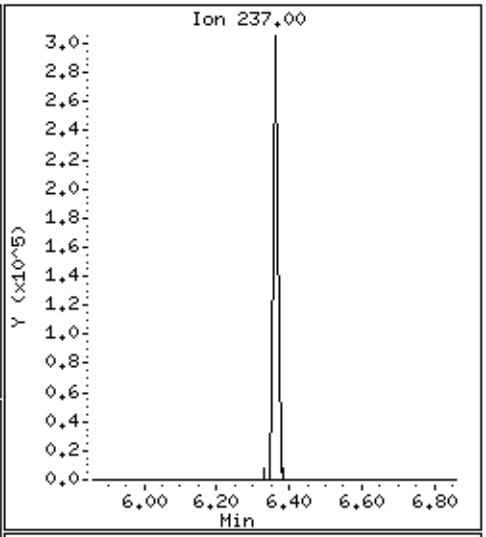
Operator: MJ

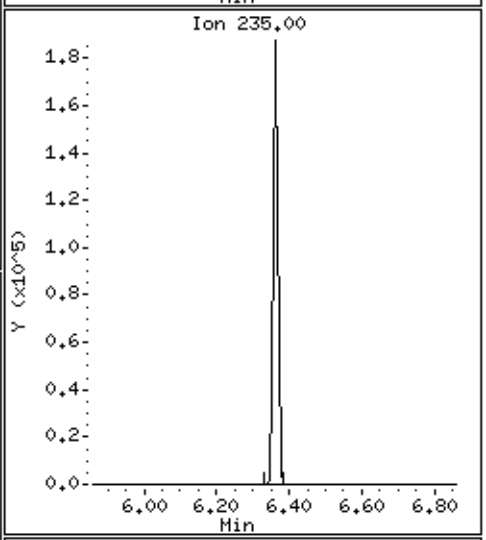
Column phase: HPMS-5 Column diameter: 0.25

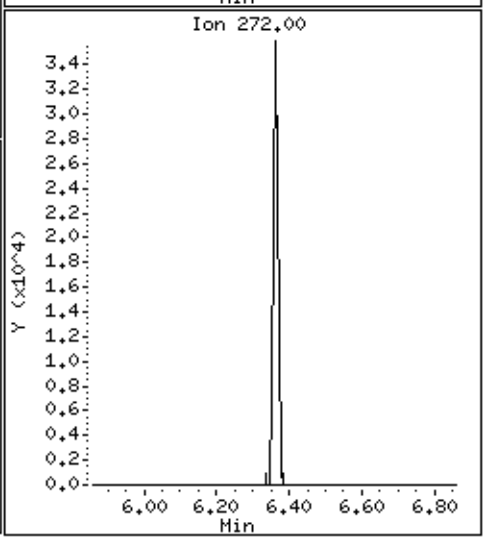
55 Hexachlorocyclopentadiene











Date : 14-NOV-2012 22:40

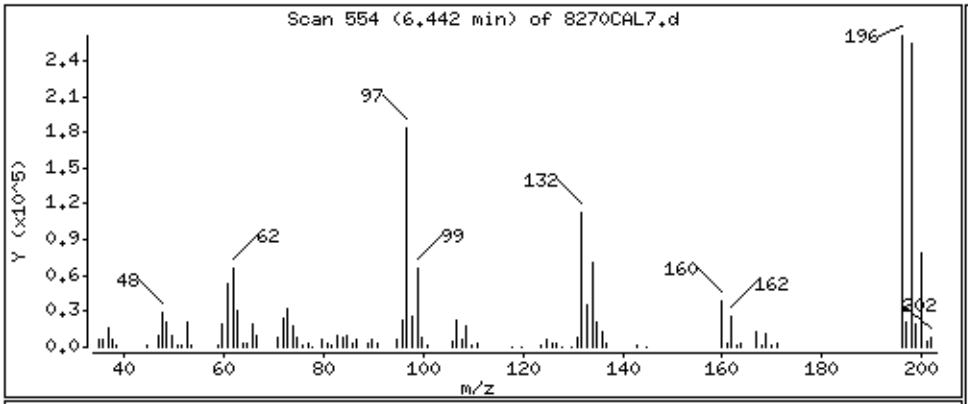
Client ID: 8270CAL7 Instrument: smsd04.i

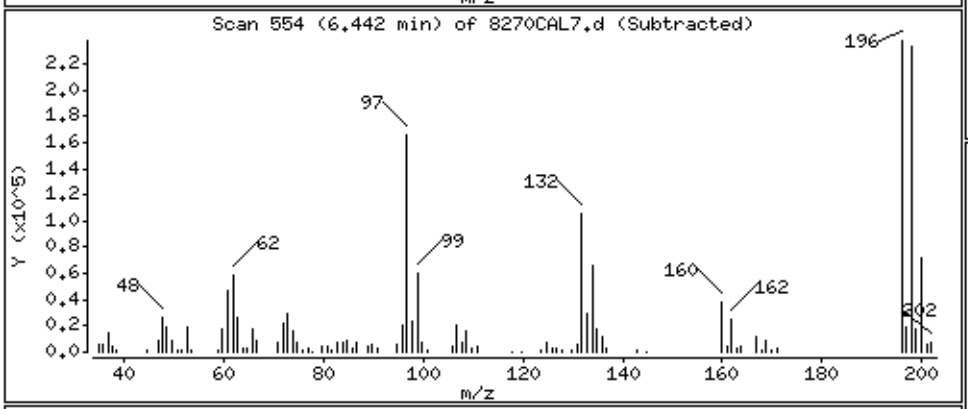
Sample Info: 47763

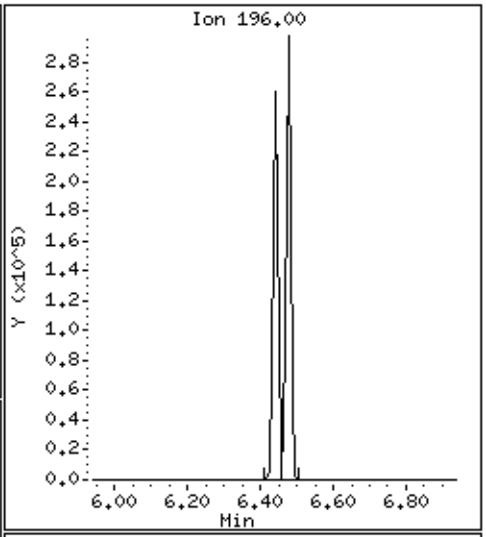
Operator: MJ

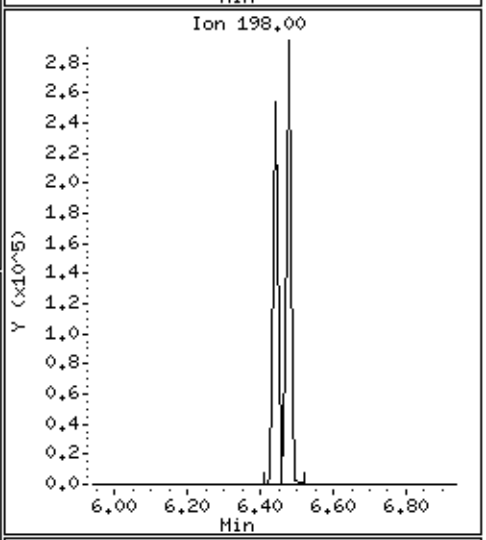
Column phase: HPMS-5 Column diameter: 0.25

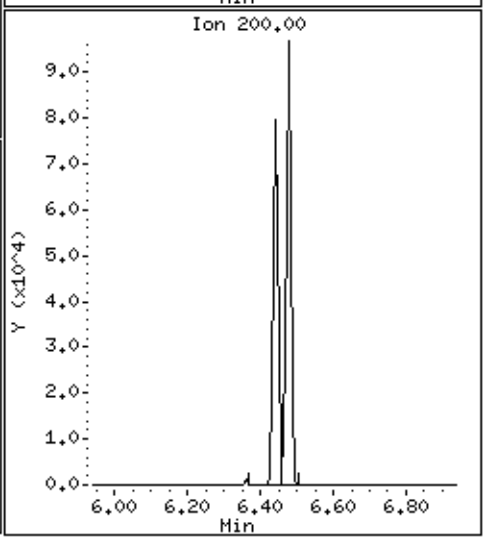
57 2,4,6-Trichlorophenol











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

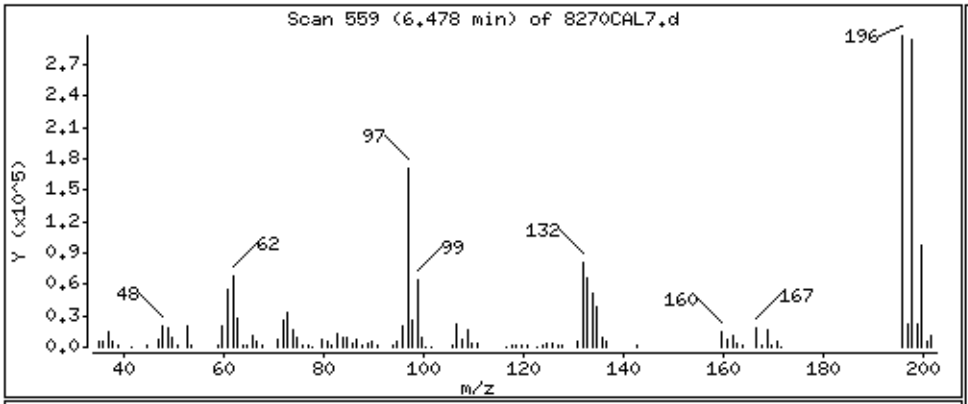
Sample Info: 47763

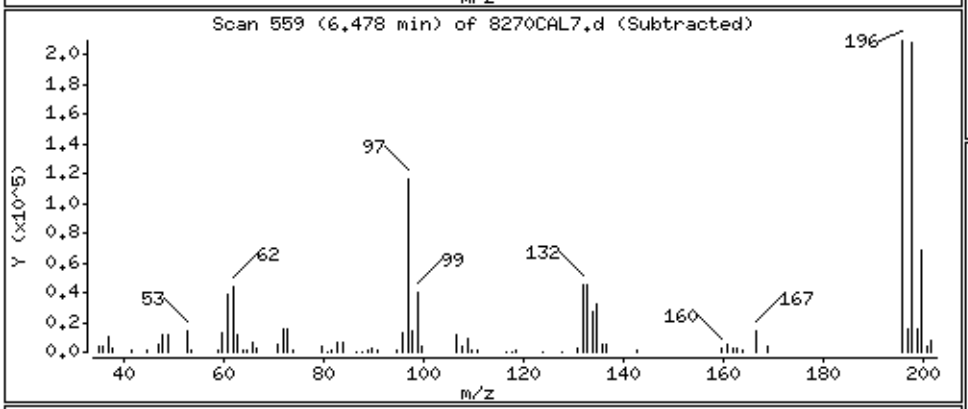
Operator: MJ

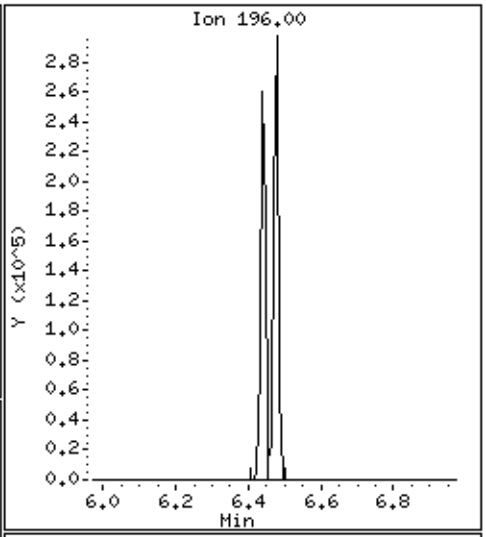
Column phase: HPMS-5

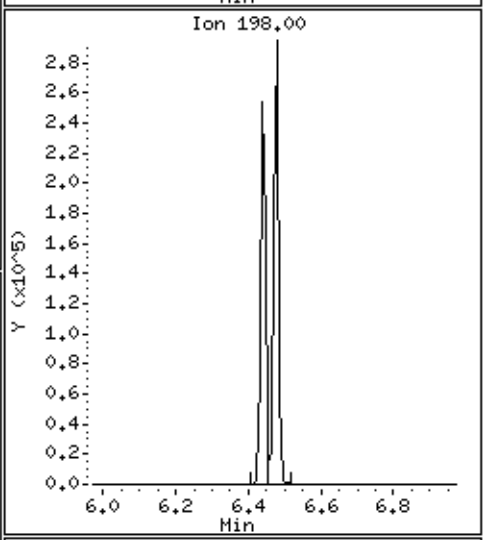
Column diameter: 0.25

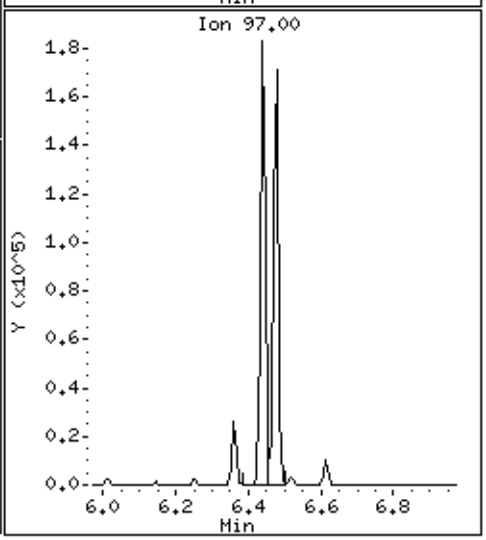
58 2,4,5-Trichlorophenol











Date : 14-NOV-2012 22:40

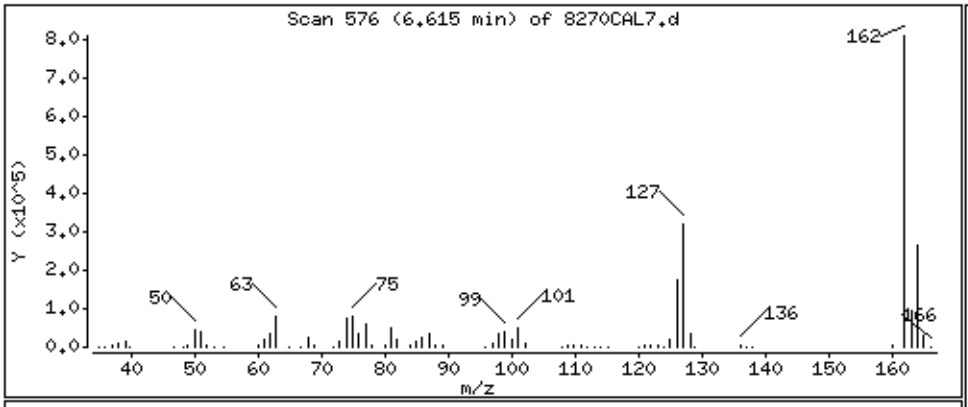
Client ID: 8270CAL7 Instrument: smsd04.i

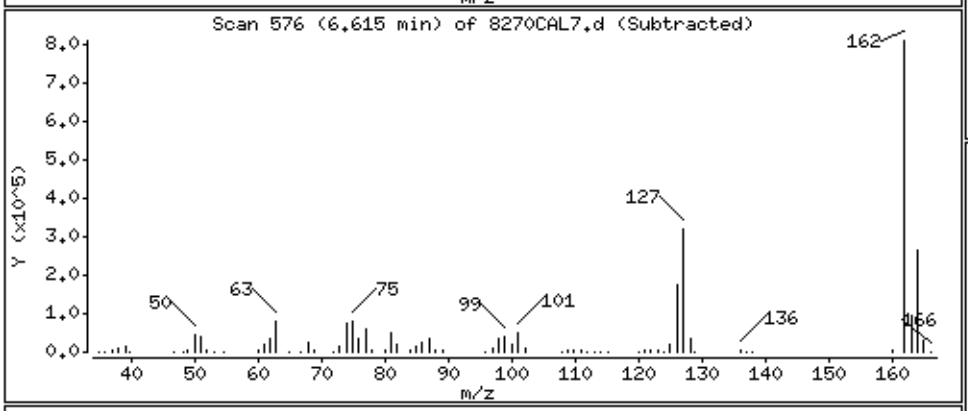
Sample Info: 47763

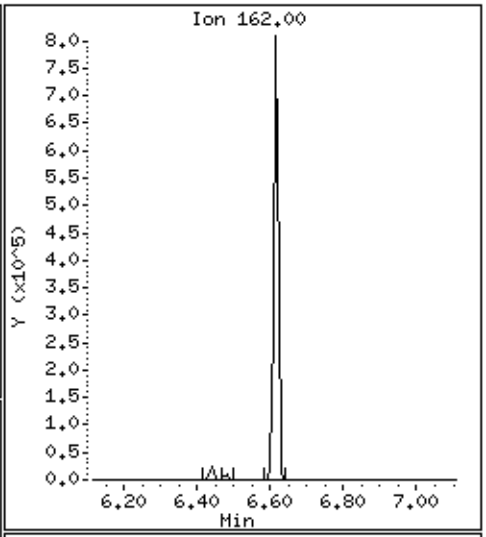
Operator: MJ

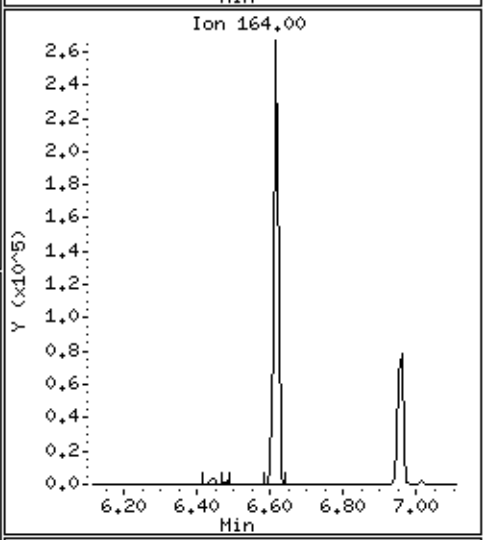
Column phase: HPMS-5 Column diameter: 0.25

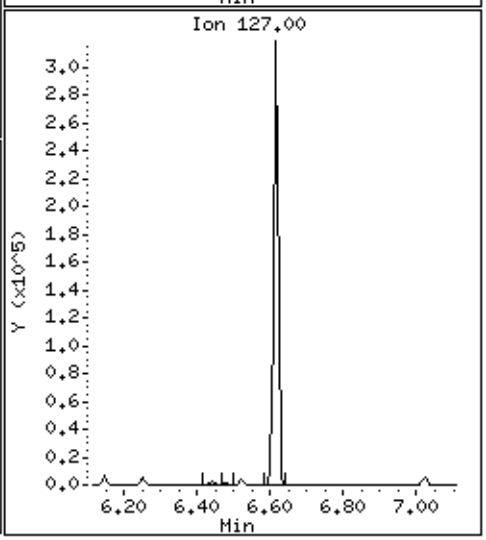
62 2-Chloronaphthalene











Date : 14-NOV-2012 22:40

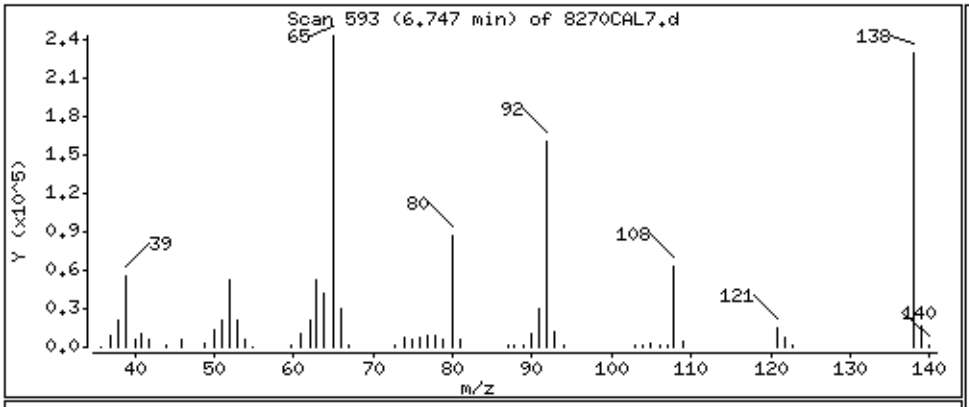
Client ID: 8270CAL7 Instrument: smsd04.i

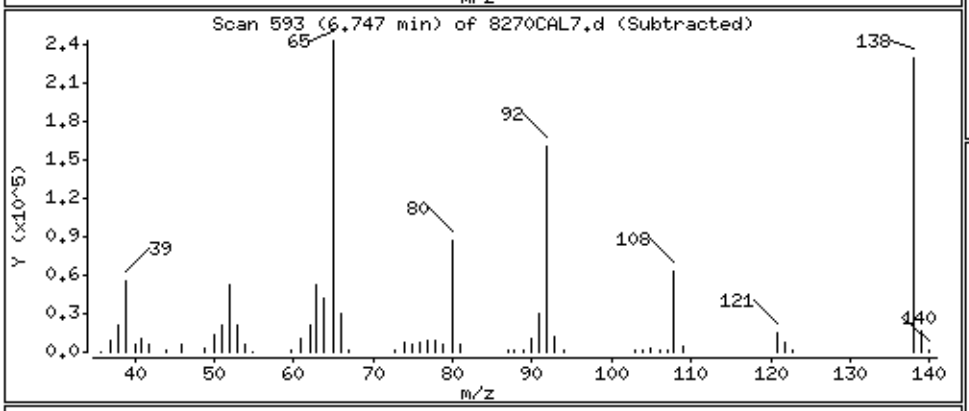
Sample Info: 47763

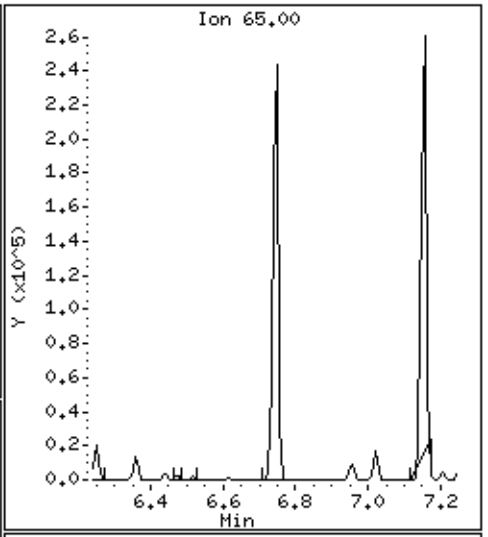
Operator: MJ

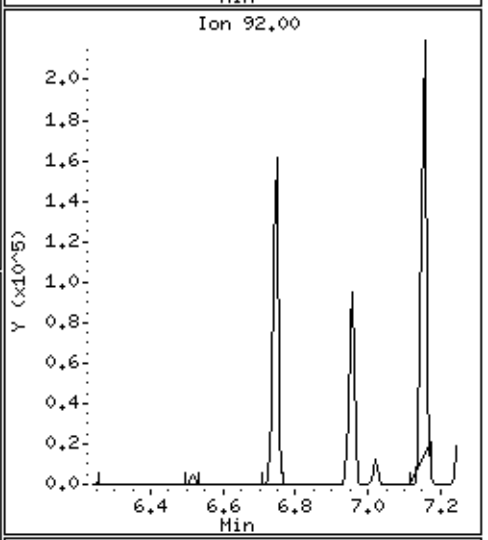
Column phase: HPMS-5 Column diameter: 0.25

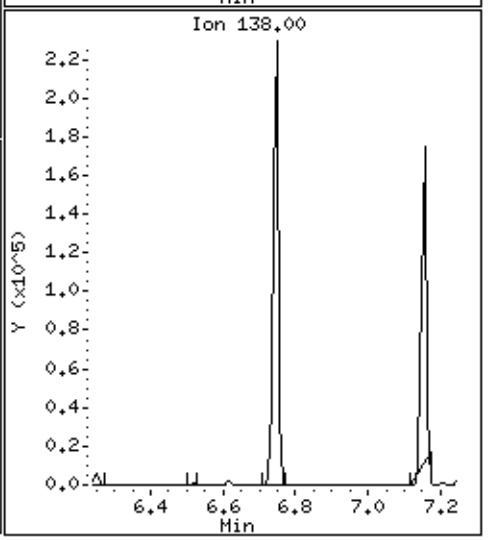
63 2-Nitroaniline











Date : 14-NOV-2012 22:40

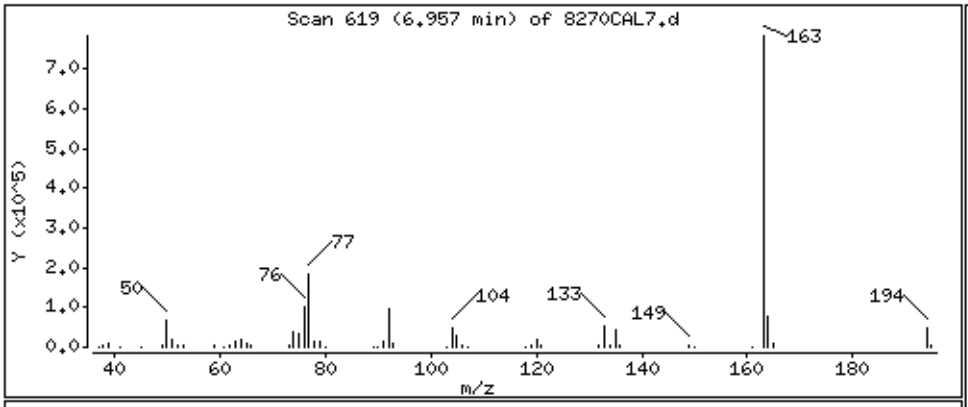
Client ID: 8270CAL7 Instrument: smsd04.i

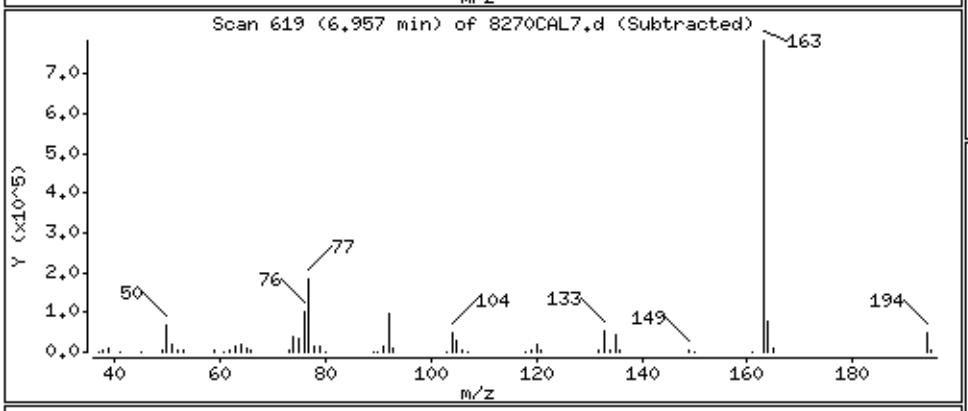
Sample Info: 47763

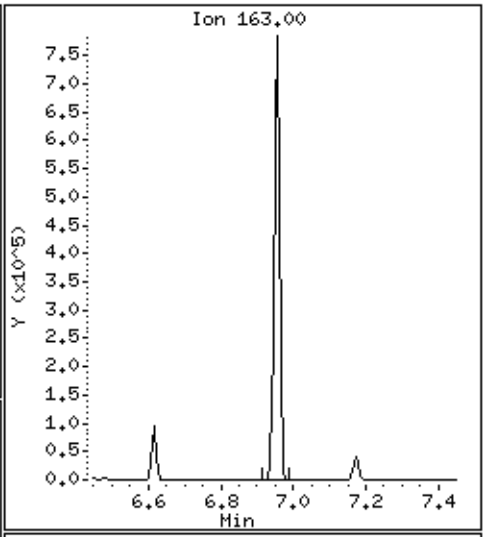
Operator: MJ

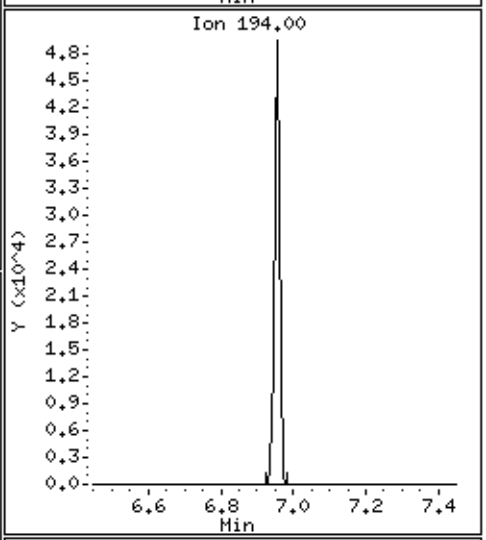
Column phase: HPMS-5 Column diameter: 0.25

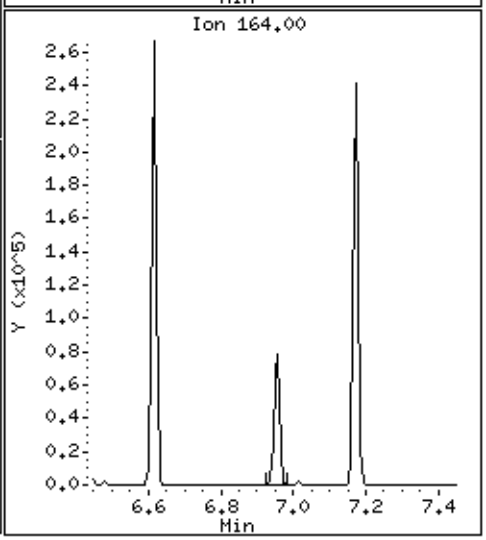
65 Dimethylphthalate











Date : 14-NOV-2012 22:40

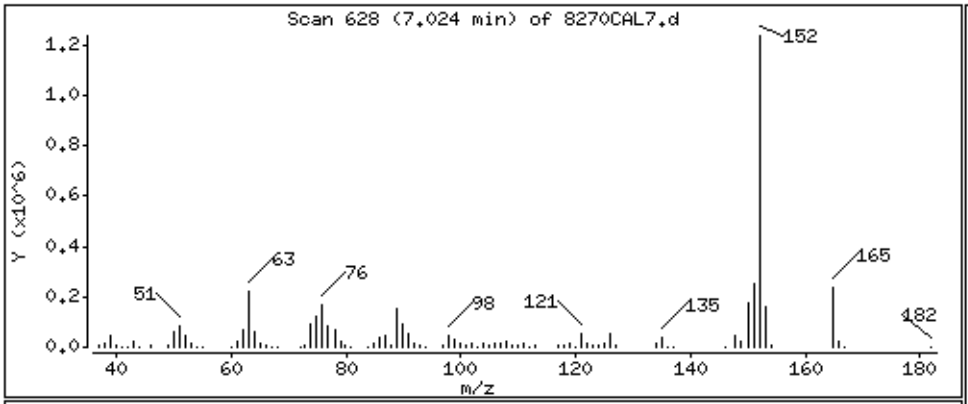
Client ID: 8270CAL7 Instrument: smsd04.i

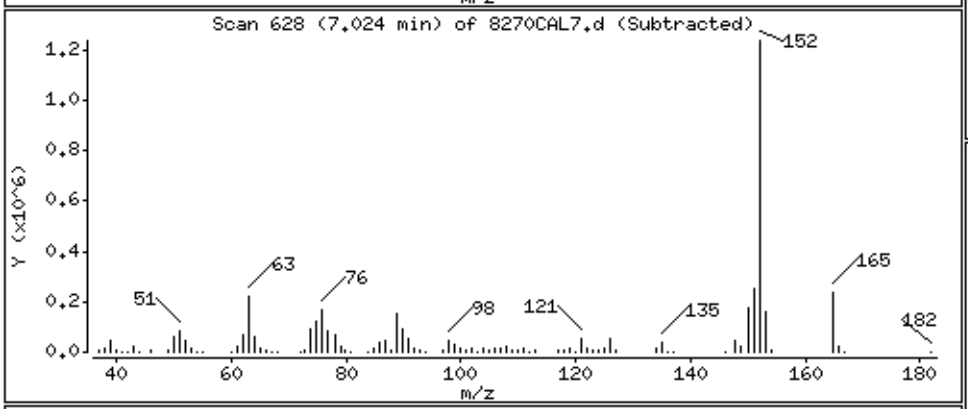
Sample Info: 47763

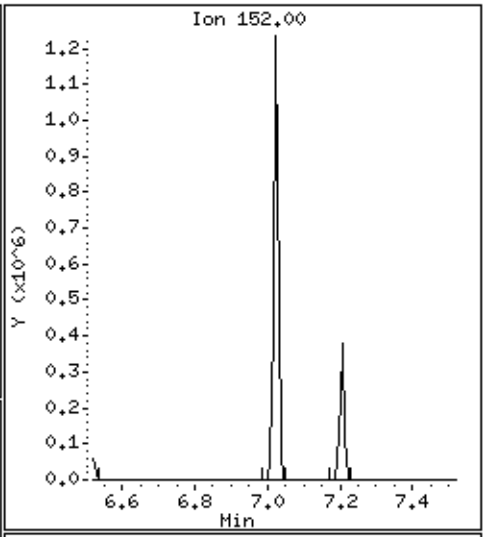
Operator: MJ

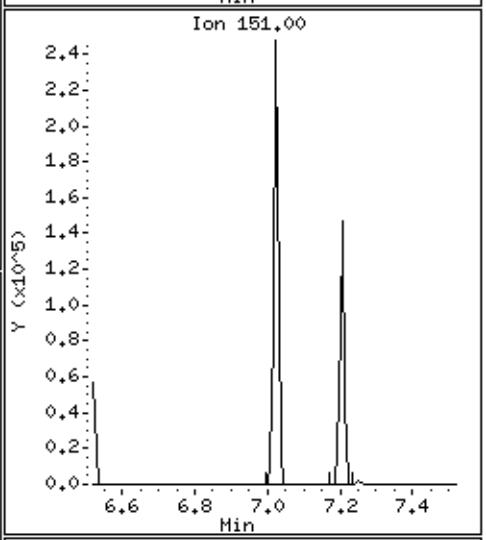
Column phase: HPMS-5 Column diameter: 0.25

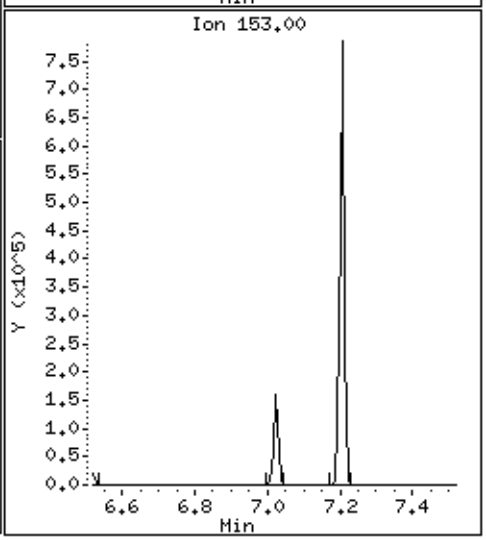
68 Acenaphthylene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

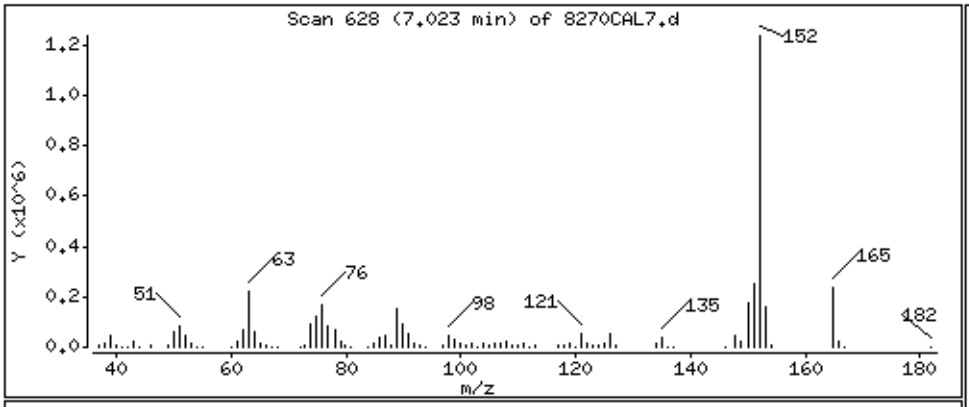
Sample Info: 47763

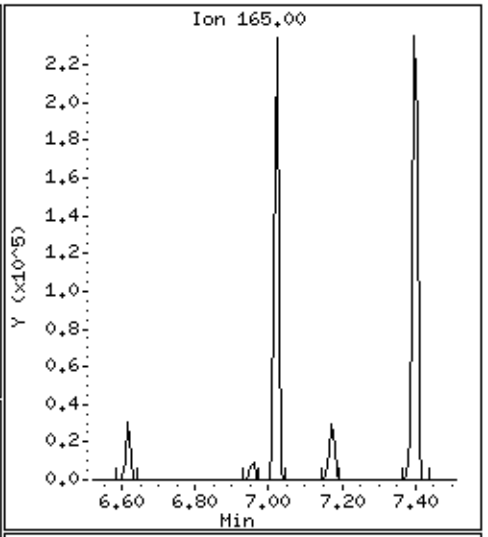
Operator: MJ

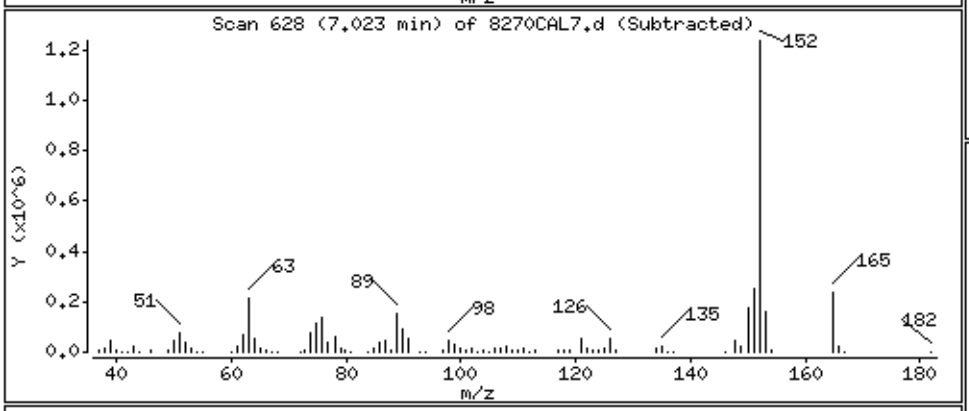
Column phase: HPMS-5

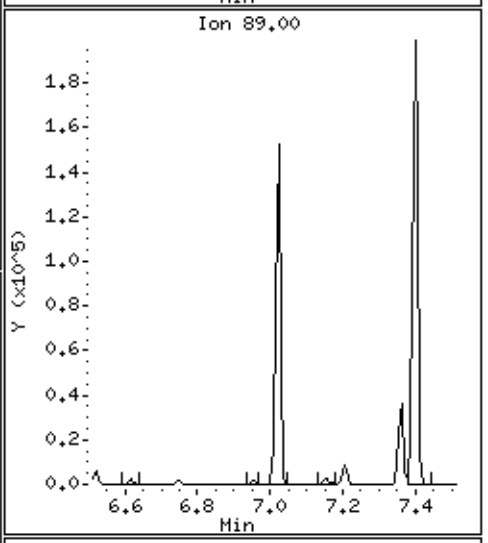
Column diameter: 0.25

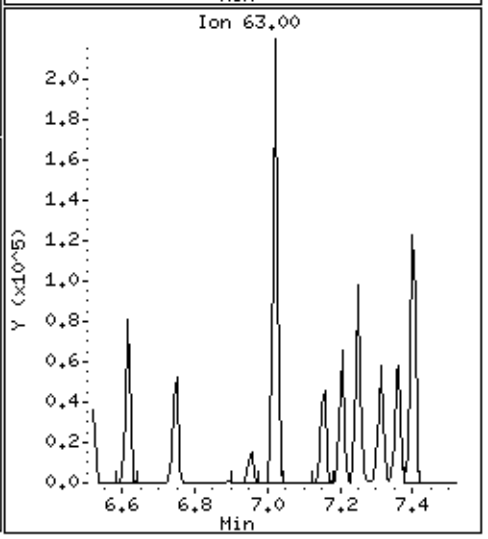
67 2,6-Dinitrotoluene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

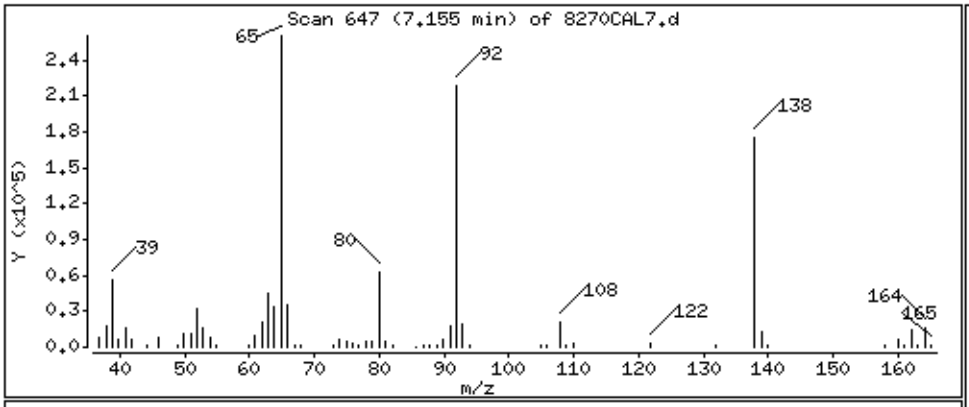
Sample Info: 47763

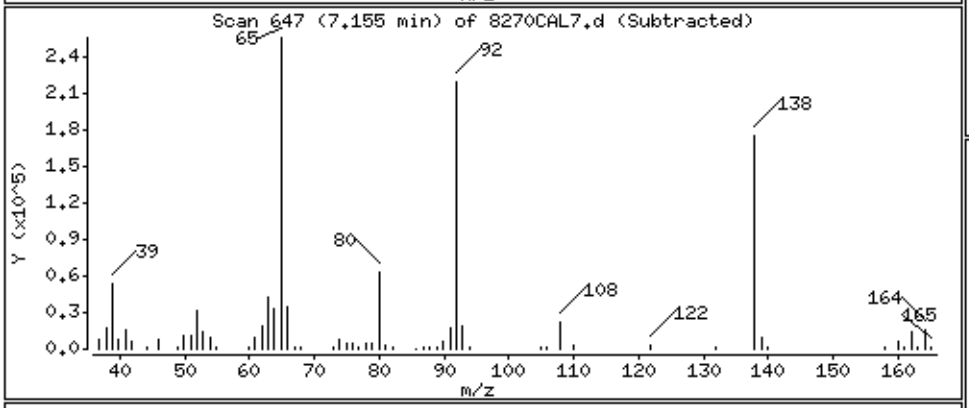
Operator: MJ

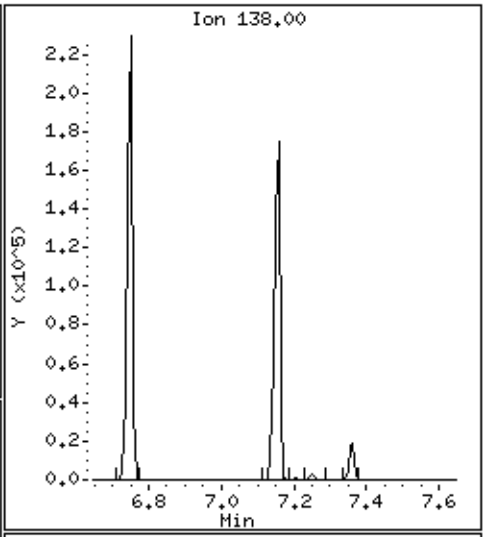
Column phase: HPMS-5

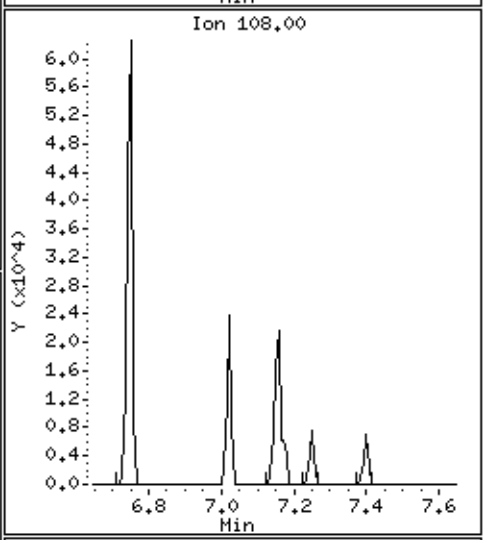
Column diameter: 0.25

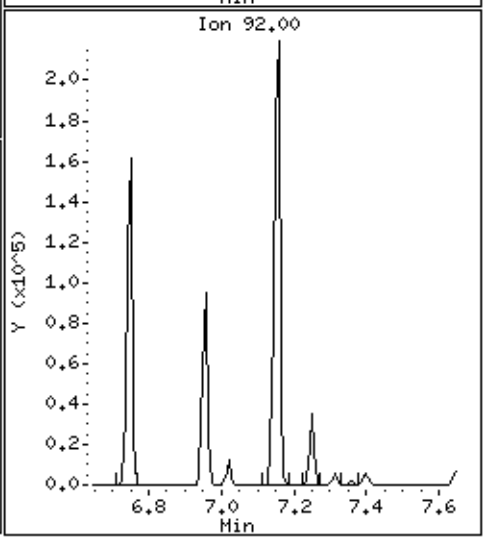
69 3-Nitroaniline











Date : 14-NOV-2012 22:40

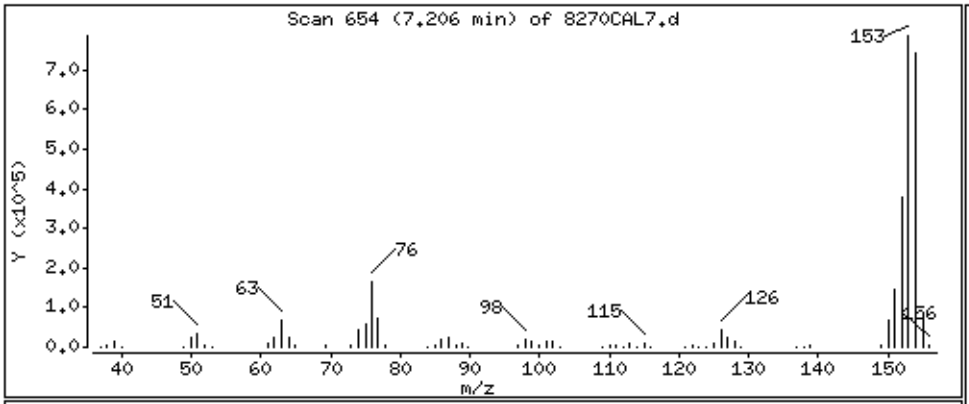
Client ID: 8270CAL7 Instrument: smsd04.i

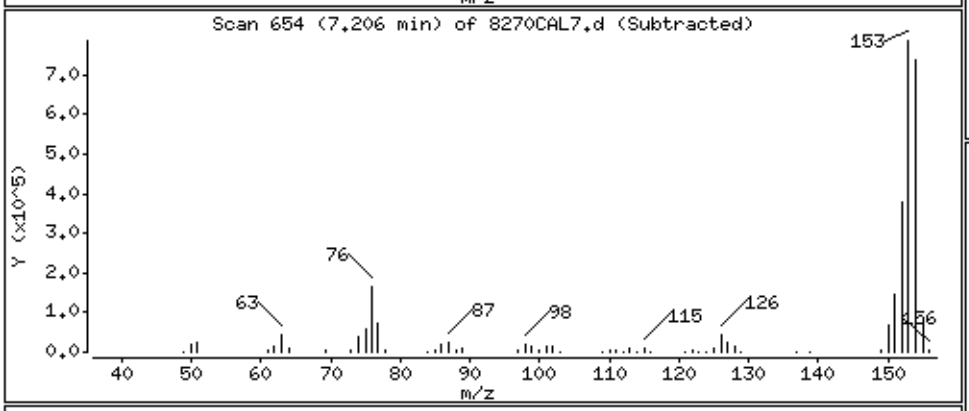
Sample Info: 47763

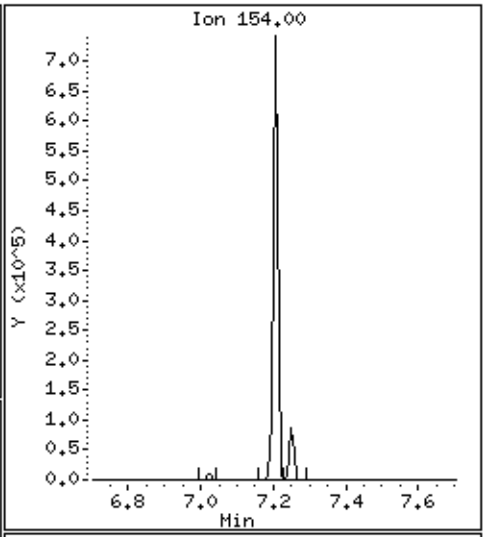
Operator: MJ

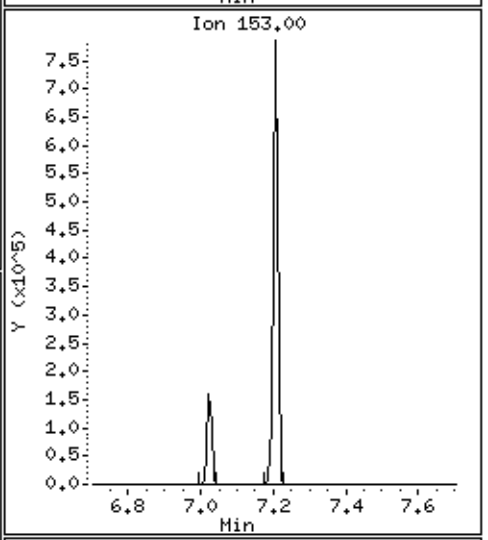
Column phase: HPMS-5 Column diameter: 0.25

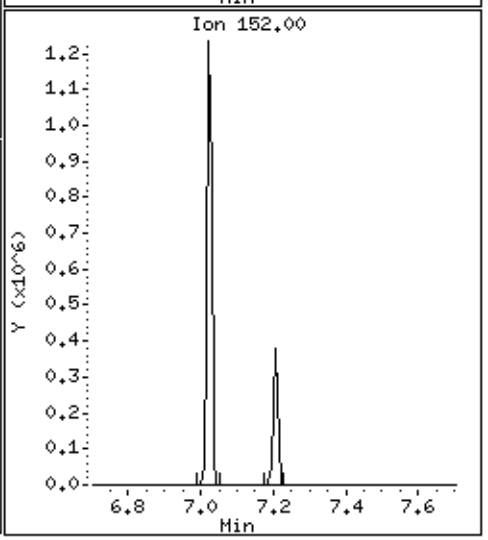
71 Acenaphthene











Date : 14-NOV-2012 22:40

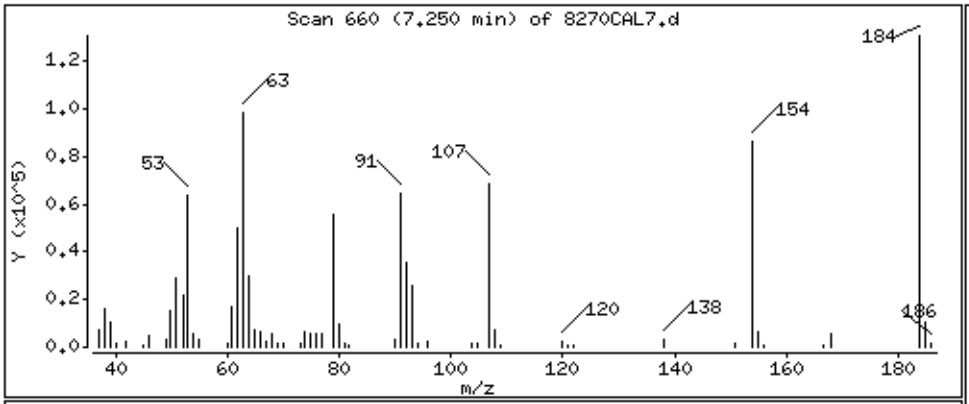
Client ID: 8270CAL7 Instrument: smsd04.i

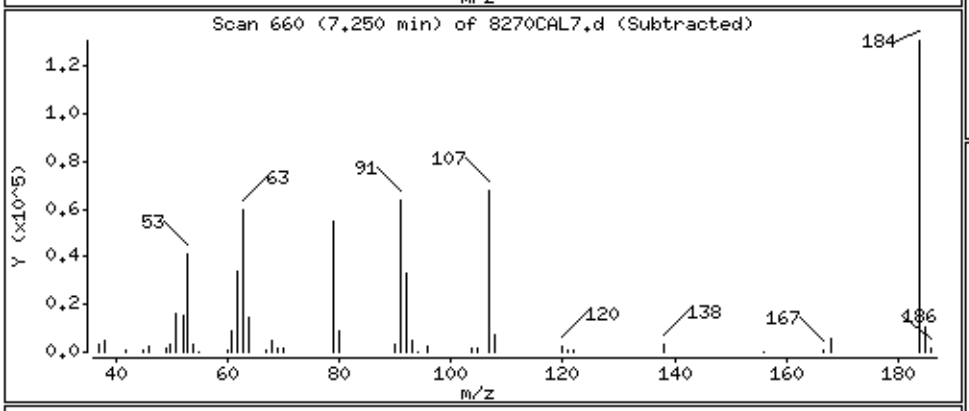
Sample Info: 47763

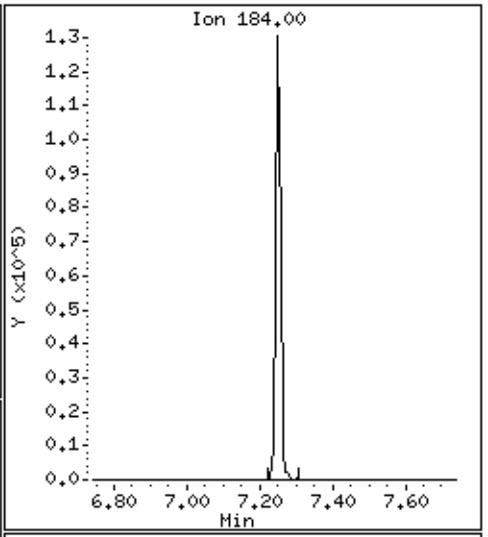
Operator: MJ

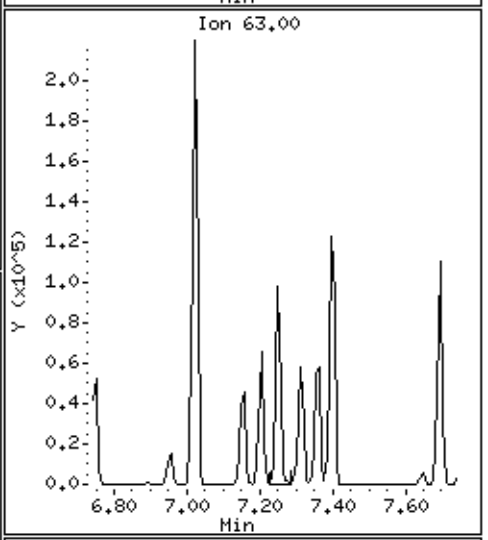
Column phase: HPMS-5 Column diameter: 0.25

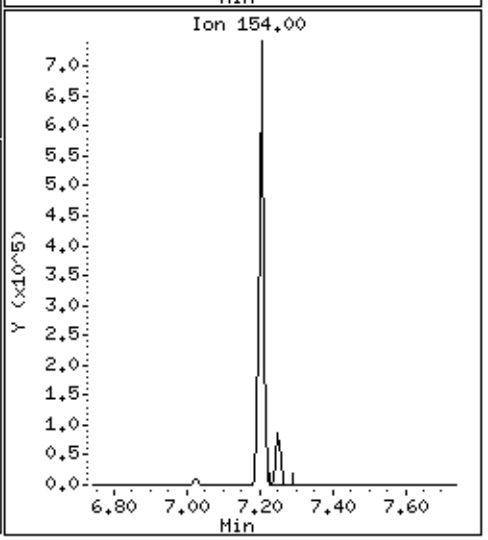
72 2,4-Dinitrophenol











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

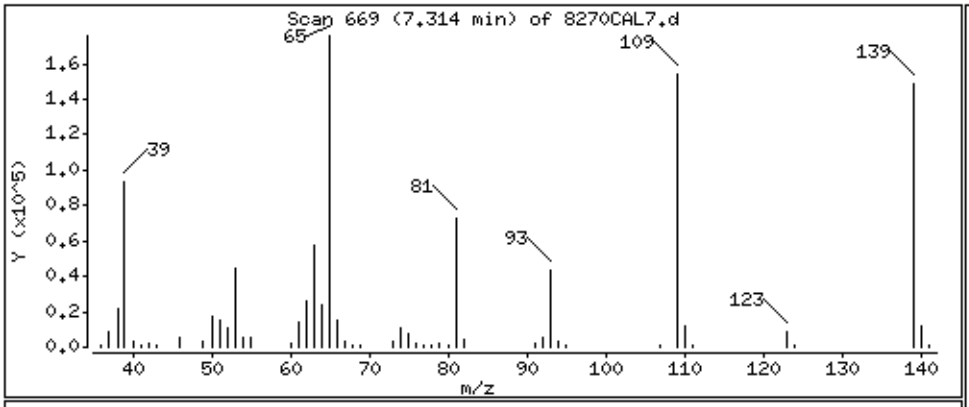
Sample Info: 47763

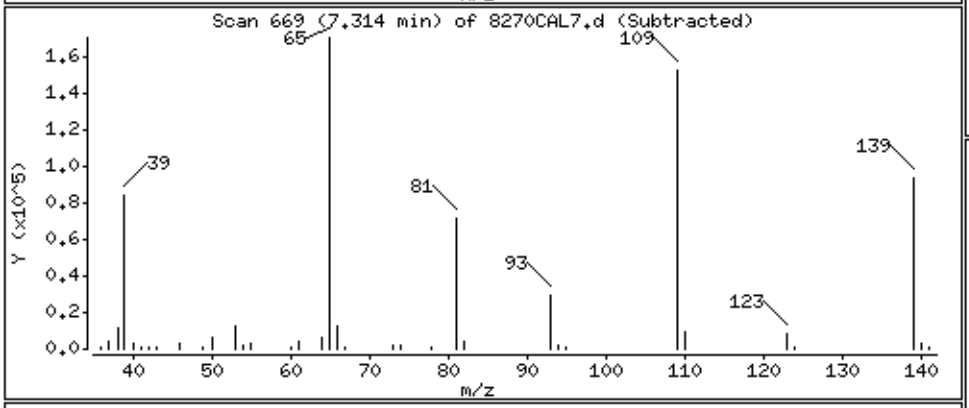
Operator: MJ

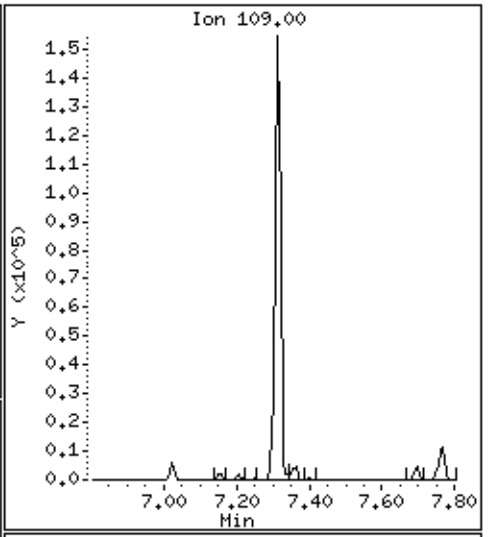
Column phase: HPMS-5

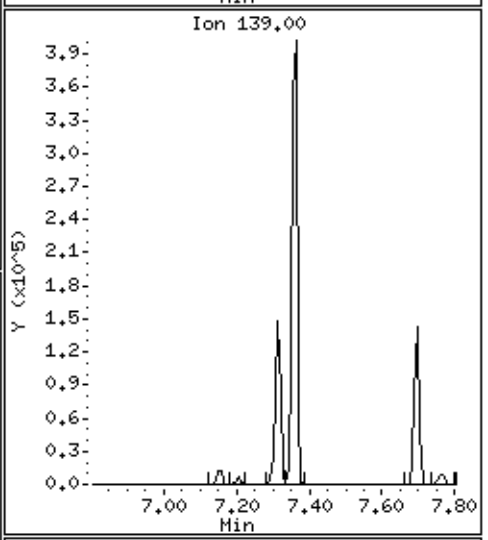
Column diameter: 0.25

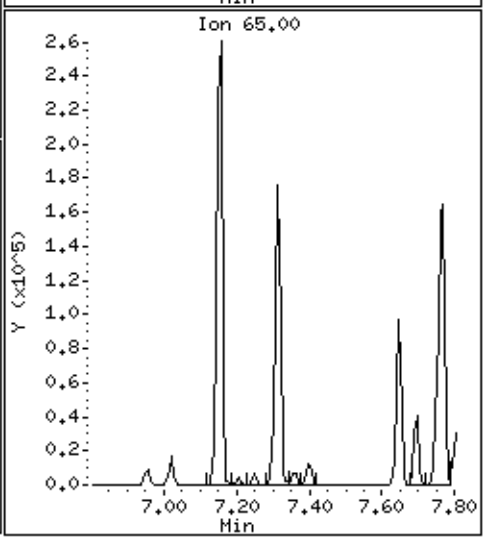
74 4-Nitrophenol











Date : 14-NOV-2012 22:40

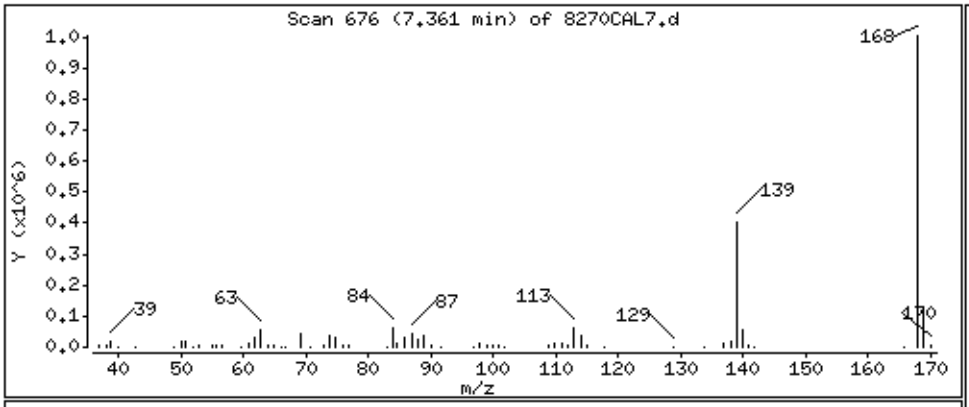
Client ID: 8270CAL7 Instrument: smsd04.i

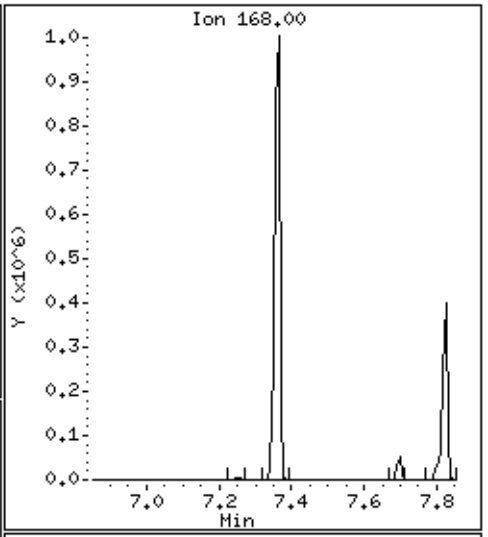
Sample Info: 47763

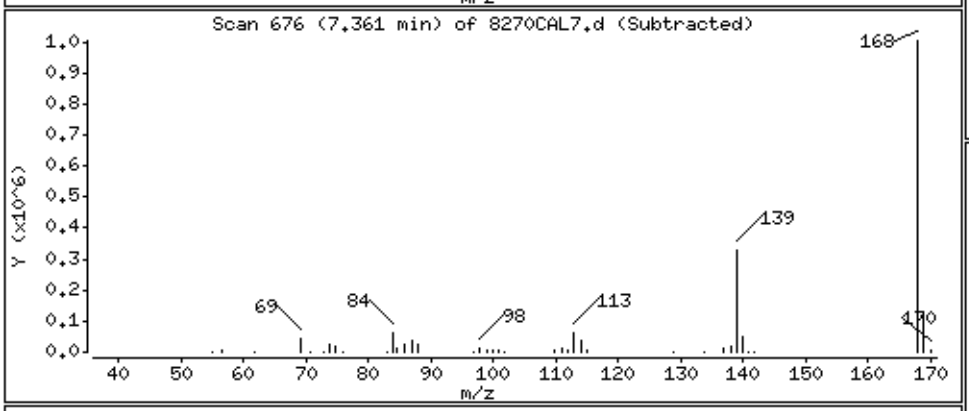
Operator: MJ

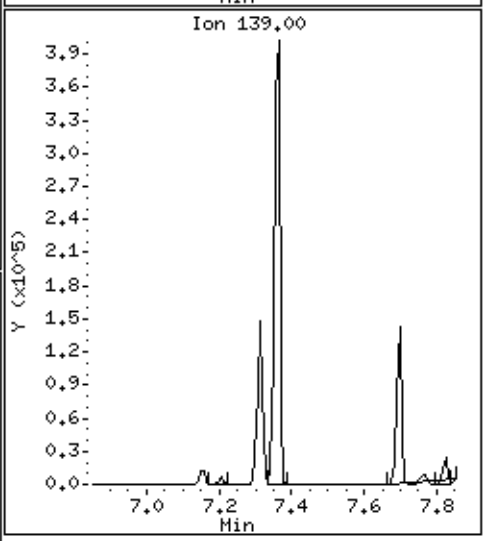
Column phase: HPMS-5 Column diameter: 0.25

75 Dibenzofuran









Date : 14-NOV-2012 22:40

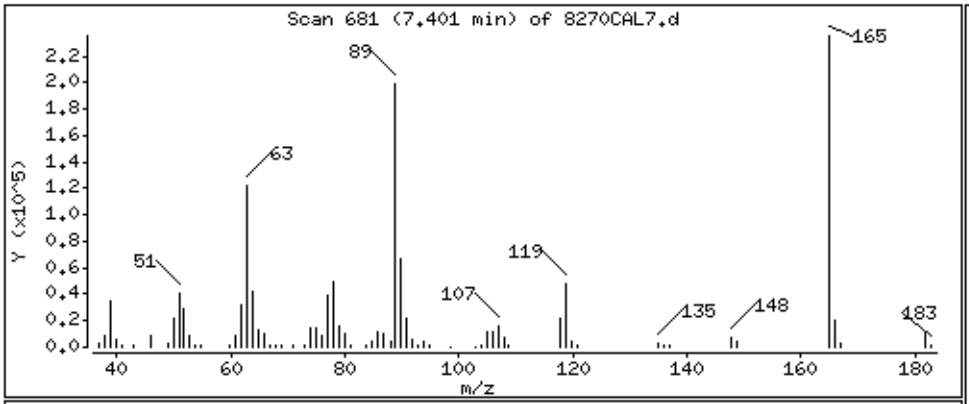
Client ID: 8270CAL7 Instrument: smsd04.i

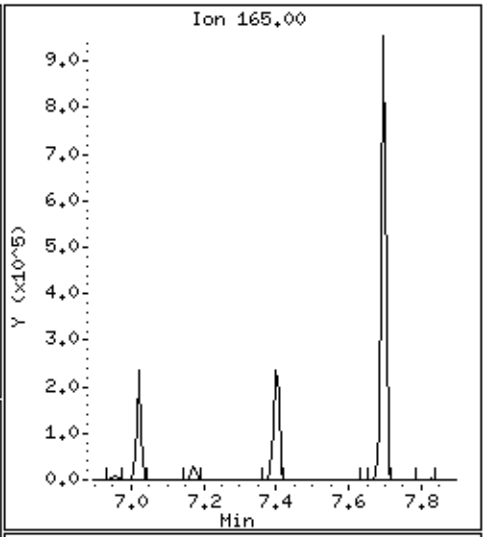
Sample Info: 47763

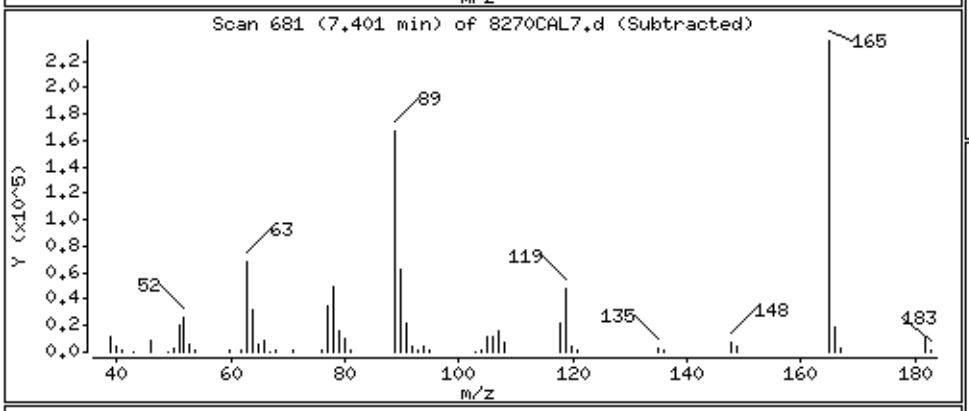
Operator: MJ

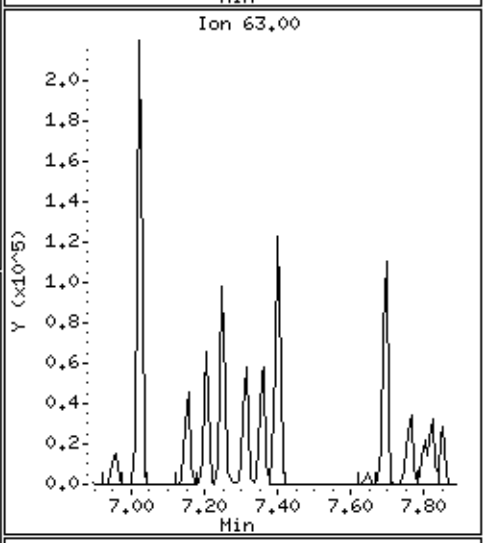
Column phase: HPMS-5 Column diameter: 0.25

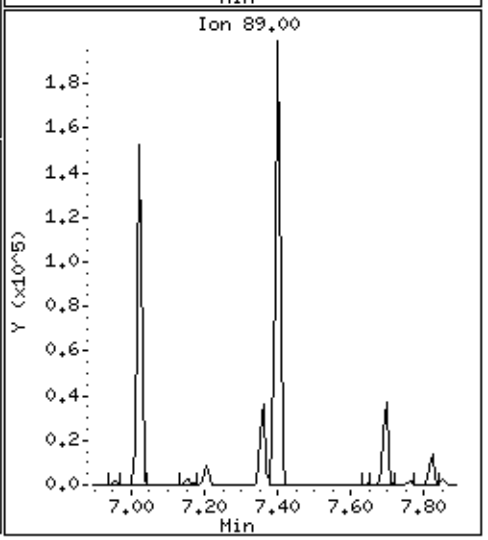
76 2,4-Dinitrotoluene











Date : 14-NOV-2012 22:40

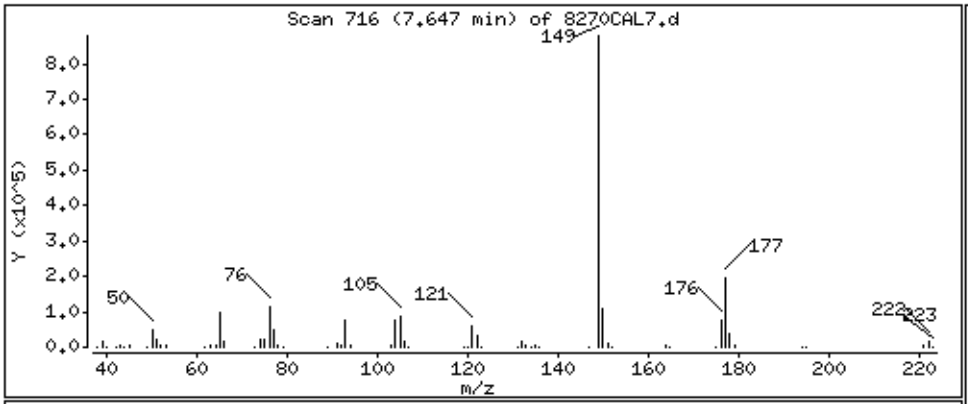
Client ID: 8270CAL7 Instrument: smsd04.i

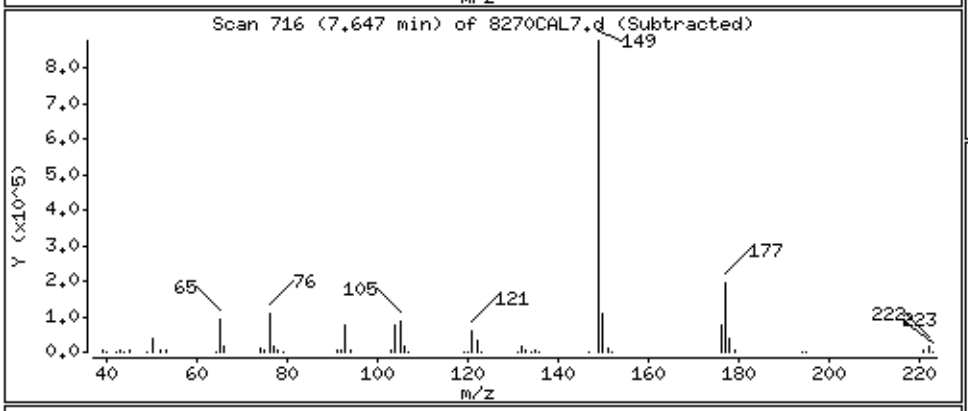
Sample Info: 47763

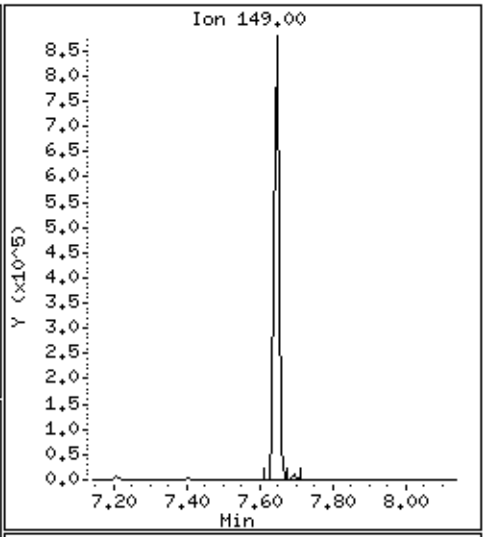
Operator: MJ

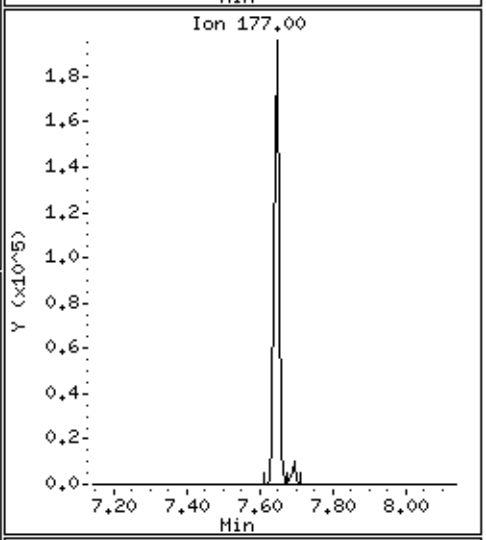
Column phase: HPMS-5 Column diameter: 0.25

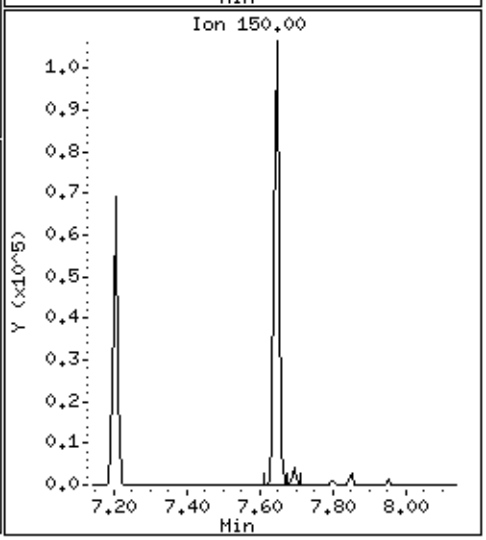
80 Diethylphthalate











Date : 14-NOV-2012 22:40

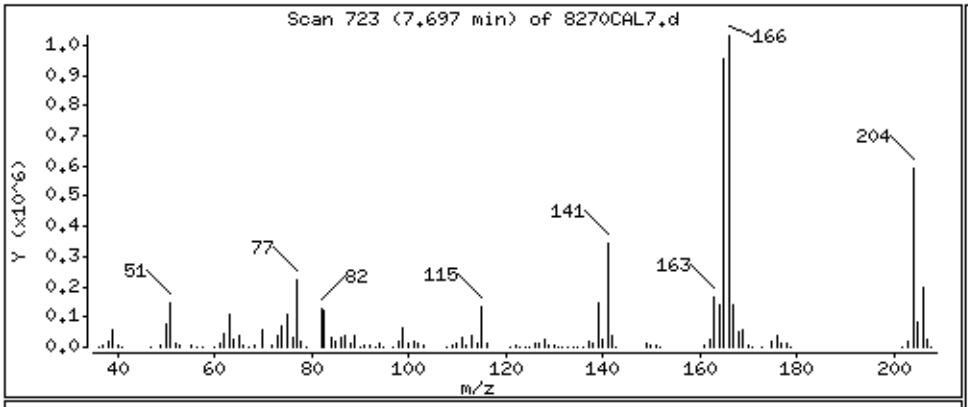
Client ID: 8270CAL7 Instrument: smsd04.i

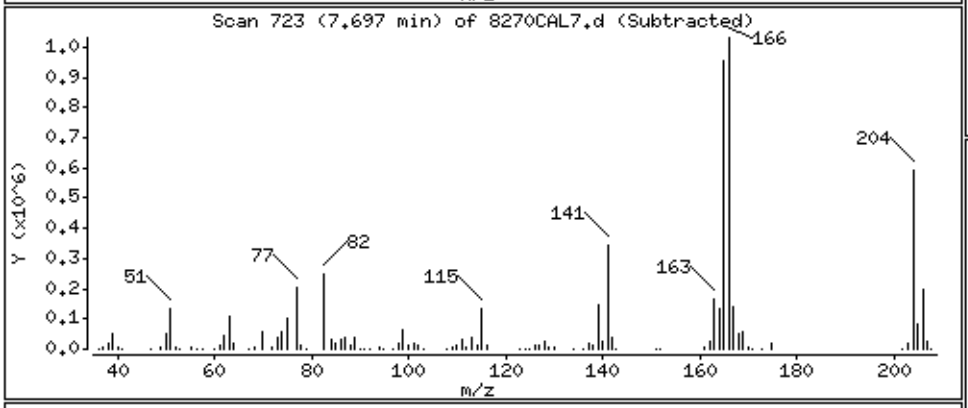
Sample Info: 47763

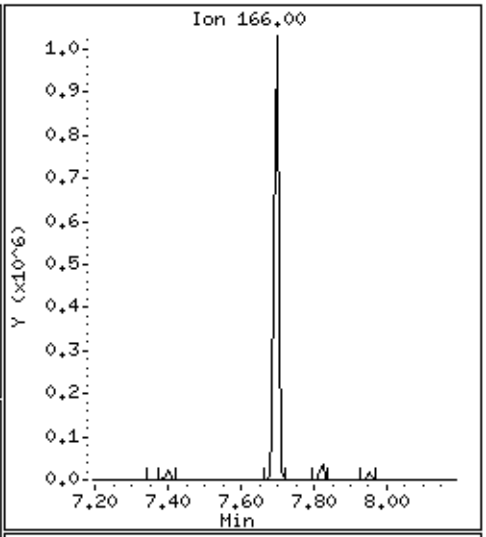
Operator: MJ

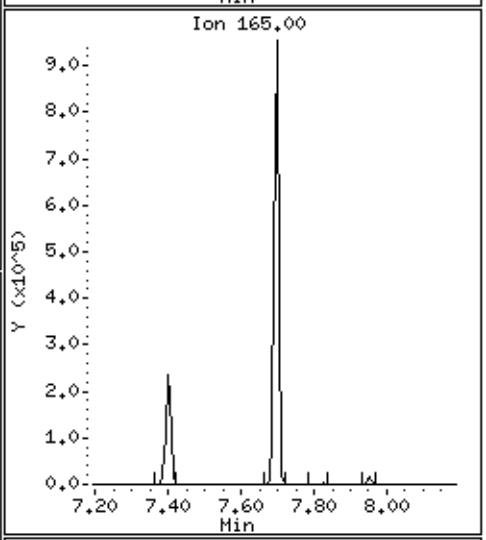
Column phase: HPMS-5 Column diameter: 0.25

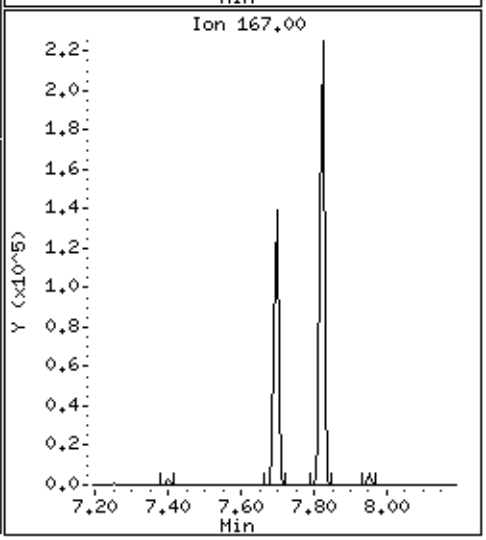
81 Fluorene











Date : 14-NOV-2012 22:40

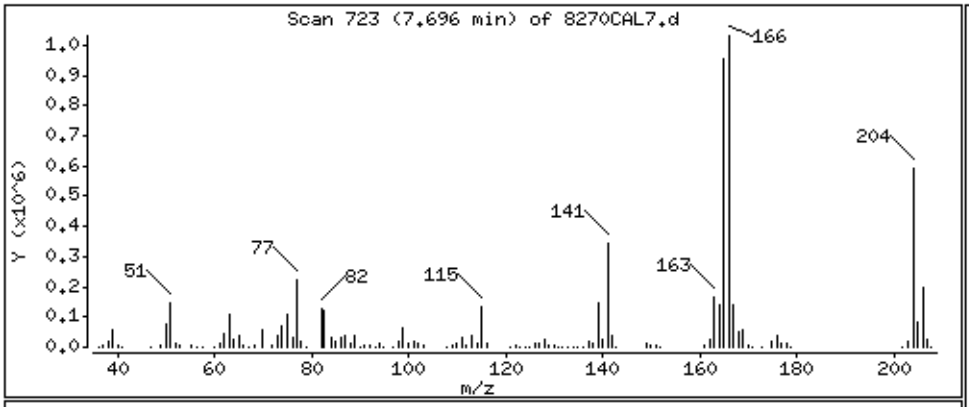
Client ID: 8270CAL7 Instrument: smsd04.i

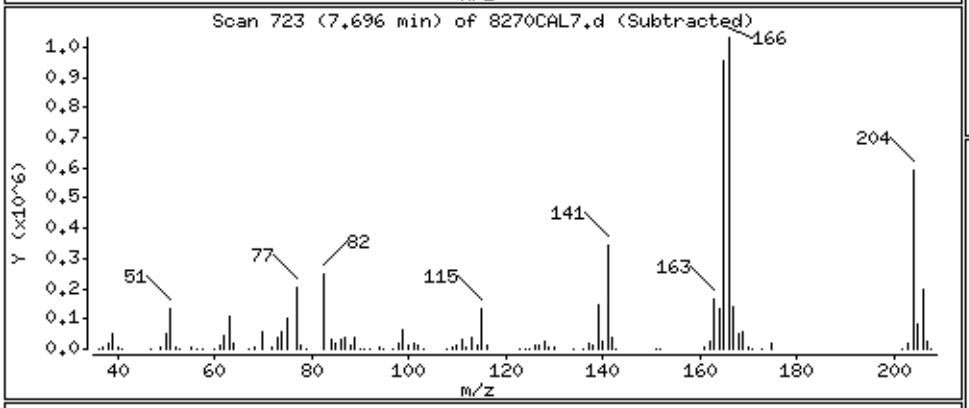
Sample Info: 47763

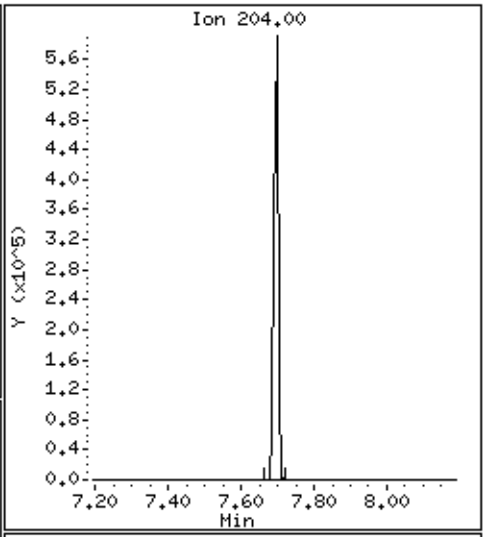
Operator: MJ

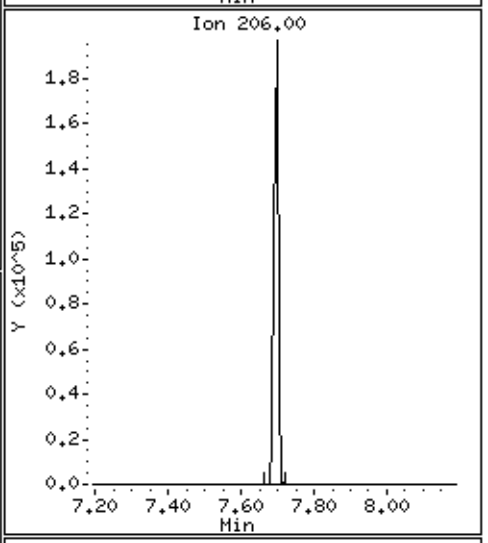
Column phase: HPMS-5 Column diameter: 0.25

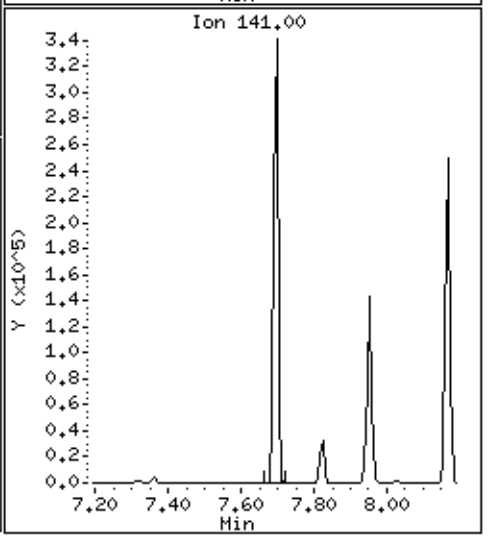
82 4-Chlorophenyl-phenylether











Date : 14-NOV-2012 22:40

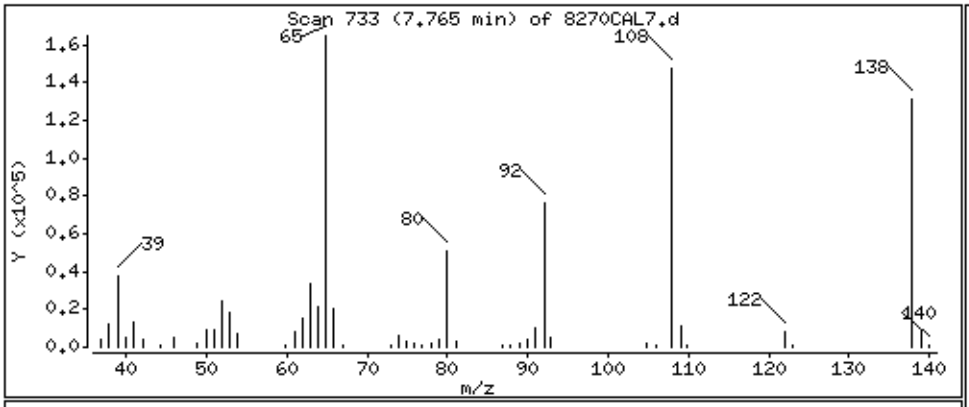
Client ID: 8270CAL7 Instrument: smsd04.i

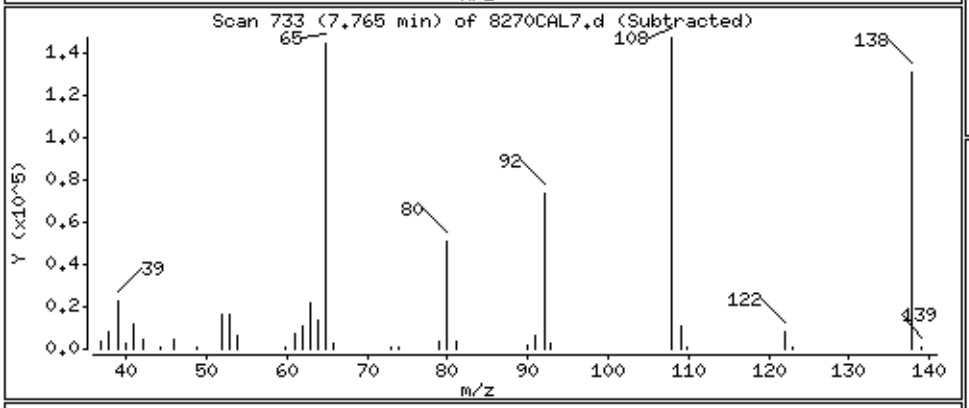
Sample Info: 47763

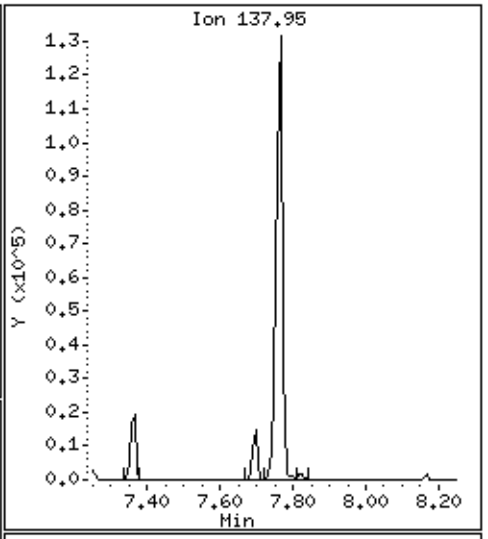
Operator: MJ

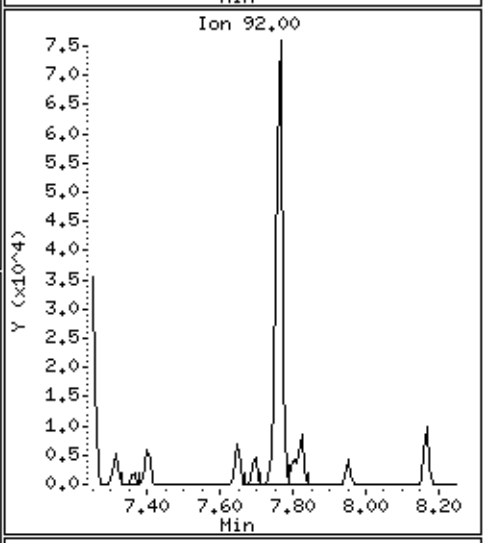
Column phase: HPMS-5 Column diameter: 0.25

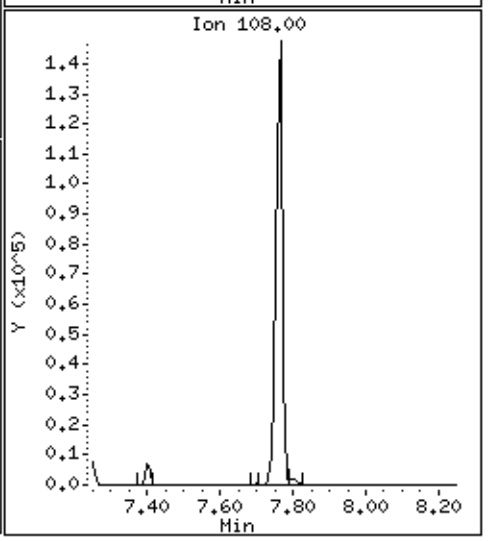
84 4-Nitroaniline











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

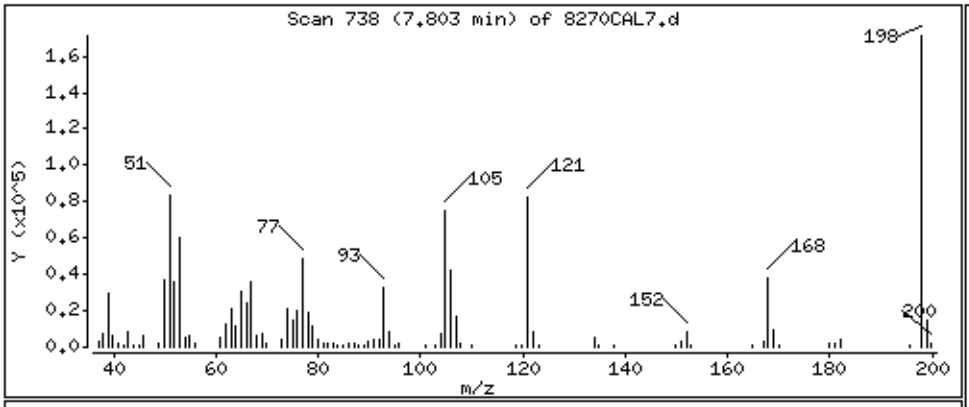
Sample Info: 47763

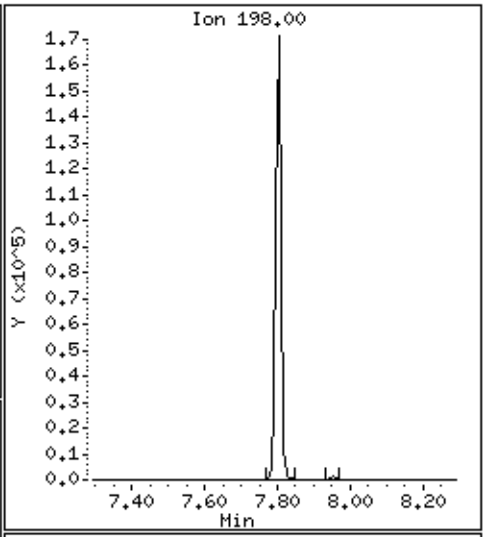
Operator: MJ

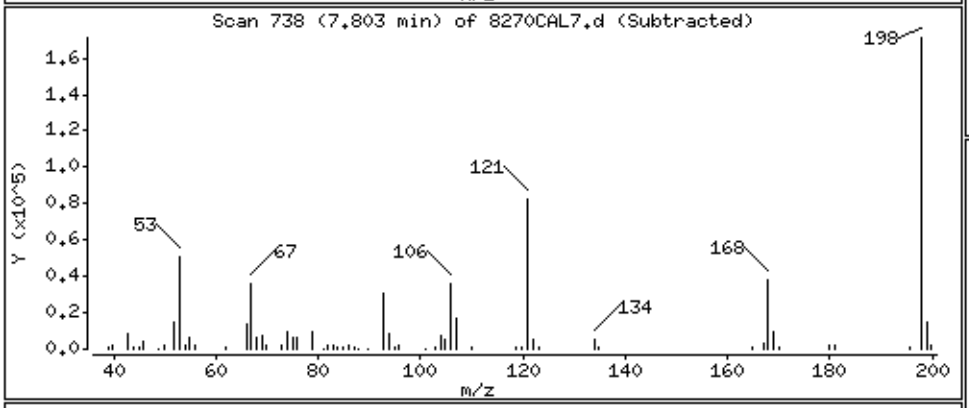
Column phase: HPMS-5

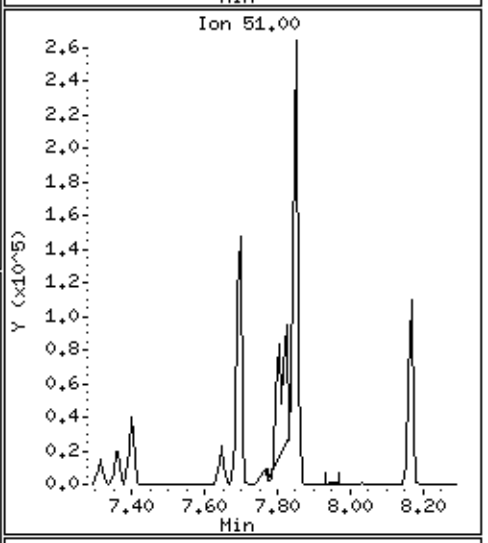
Column diameter: 0.25

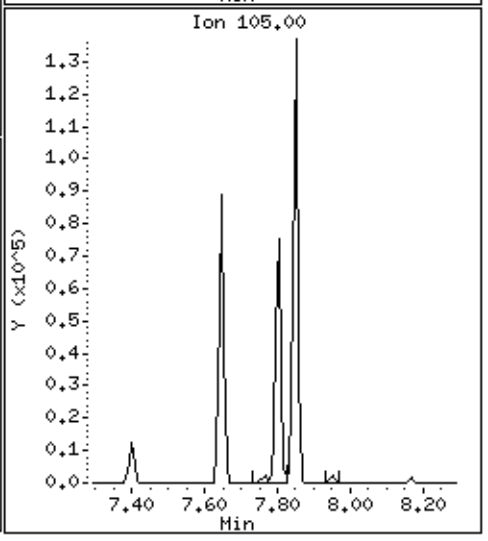
85 4,6-Dinitro-2-methylphenol











Date : 14-NOV-2012 22:40

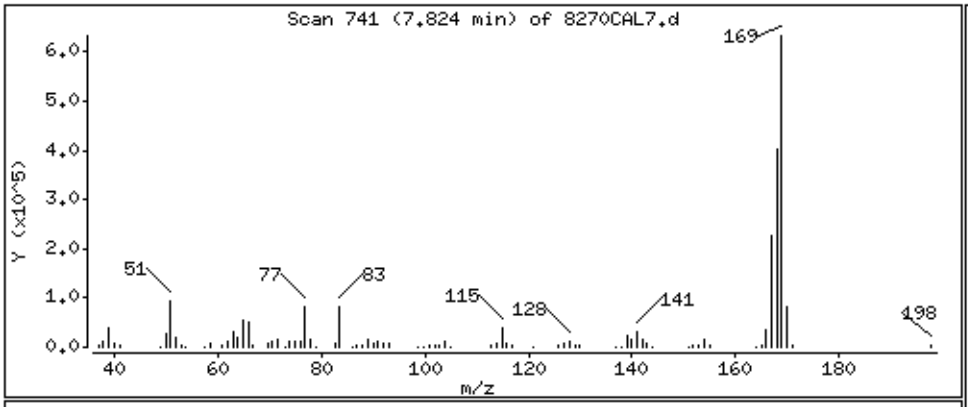
Client ID: 8270CAL7 Instrument: smsd04.i

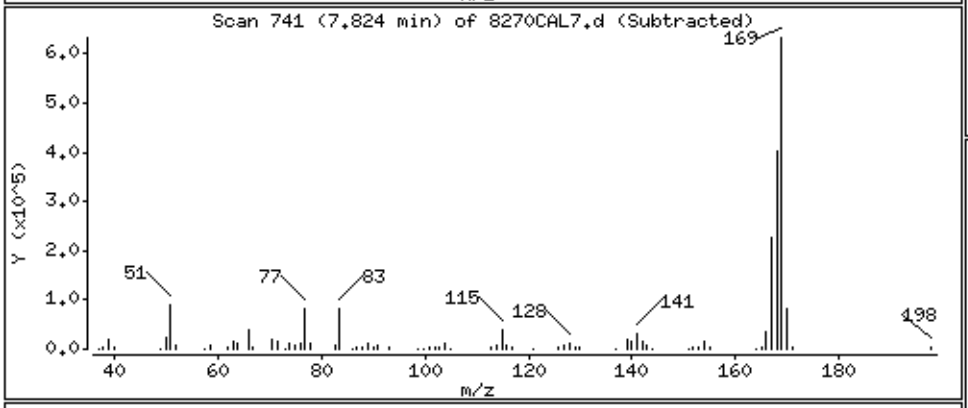
Sample Info: 47763

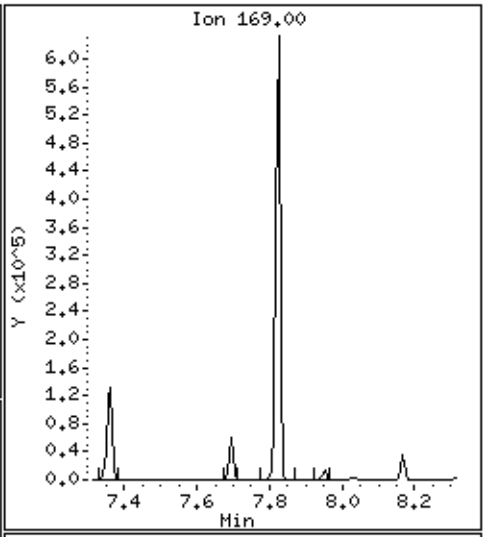
Operator: MJ

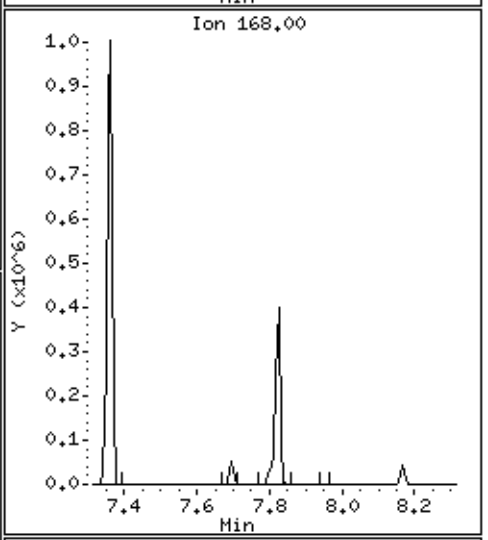
Column phase: HPMS-5 Column diameter: 0.25

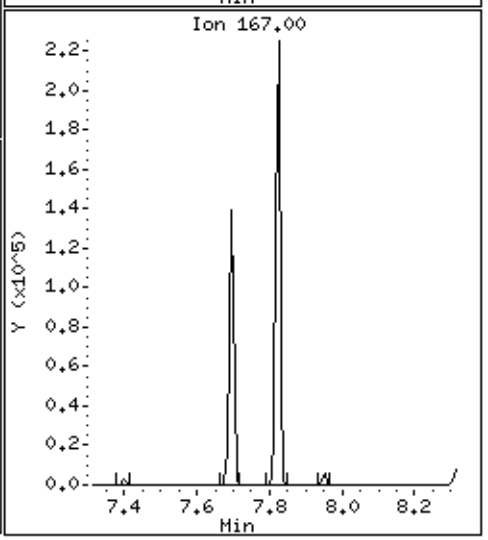
86 N-Nitrosodiphenylamine











Date : 14-NOV-2012 22:40

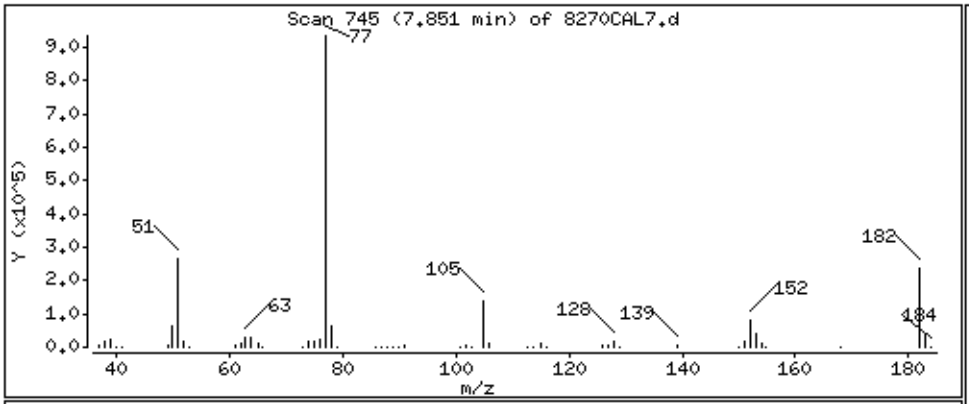
Client ID: 8270CAL7 Instrument: smsd04.i

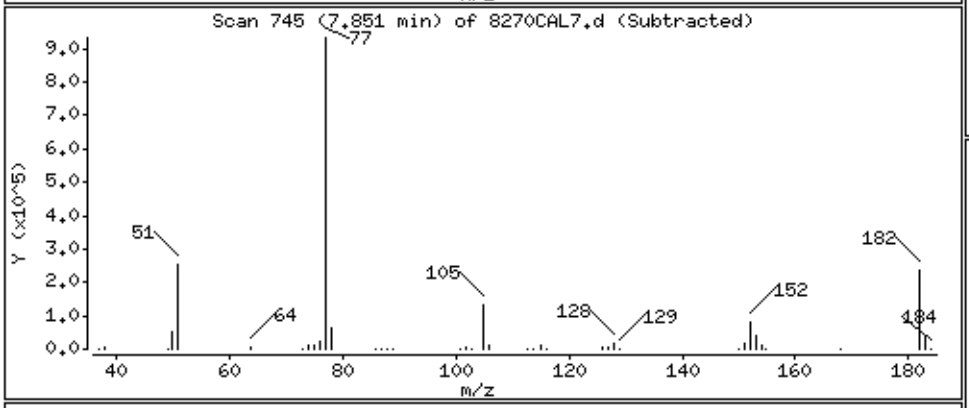
Sample Info: 47763

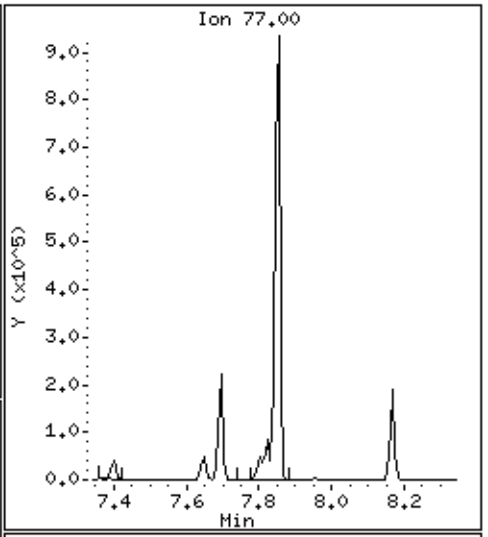
Operator: MJ

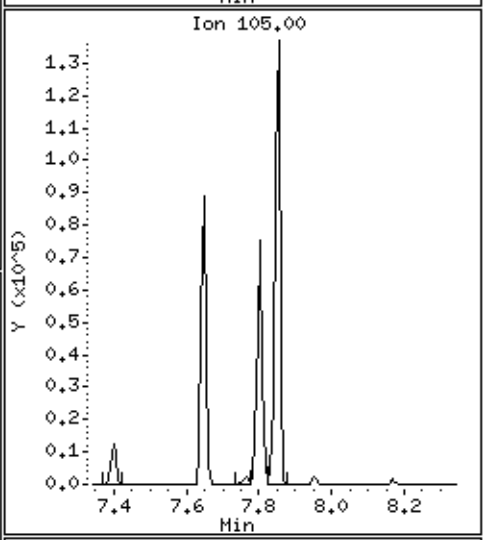
Column phase: HPMS-5 Column diameter: 0.25

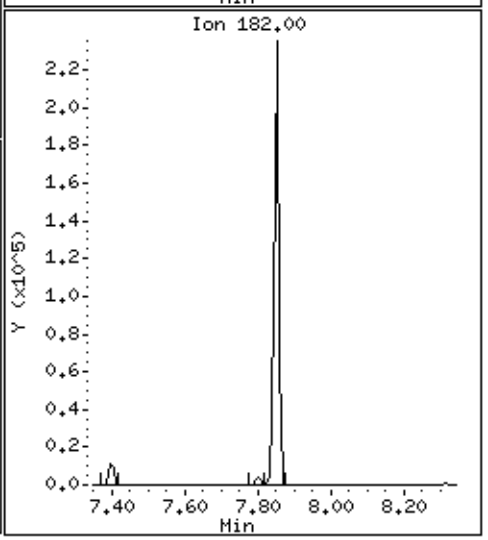
87 1,2-Diphenylhydrazine











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

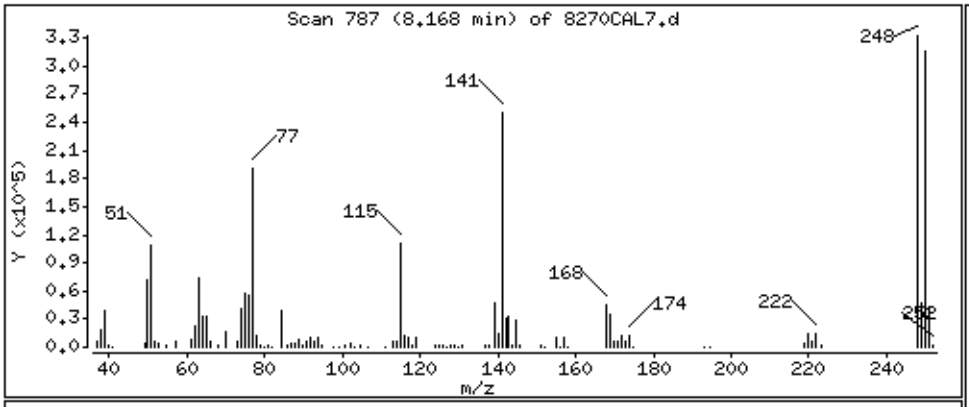
Sample Info: 47763

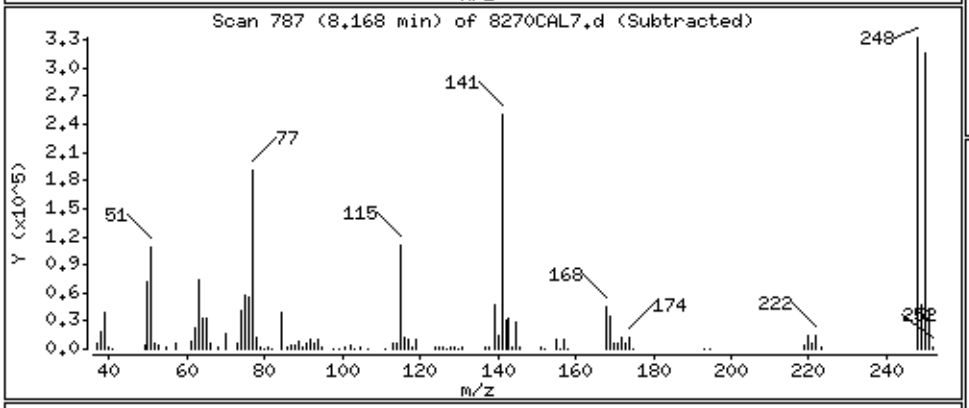
Operator: MJ

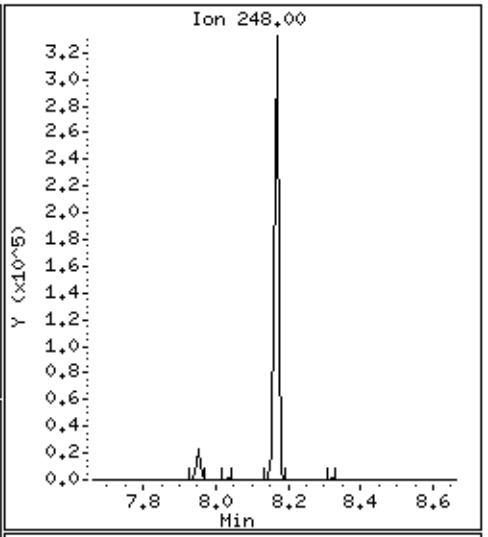
Column phase: HPMS-5

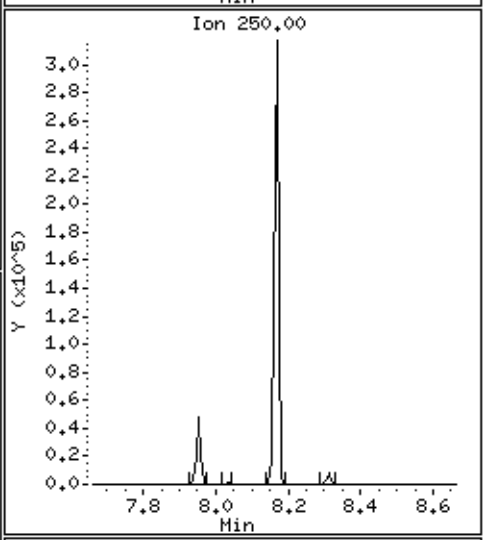
Column diameter: 0.25

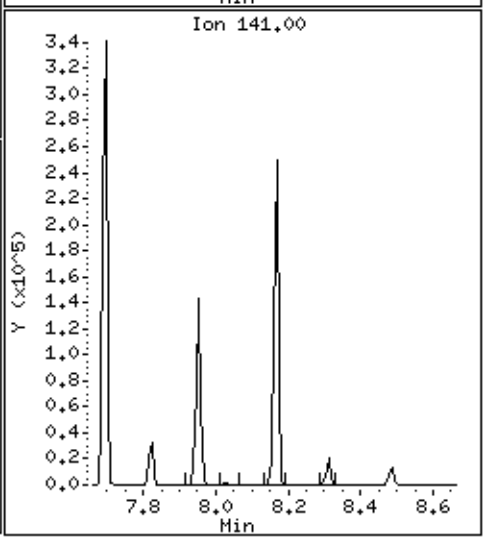
93 4-Bromophenylphenylether











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

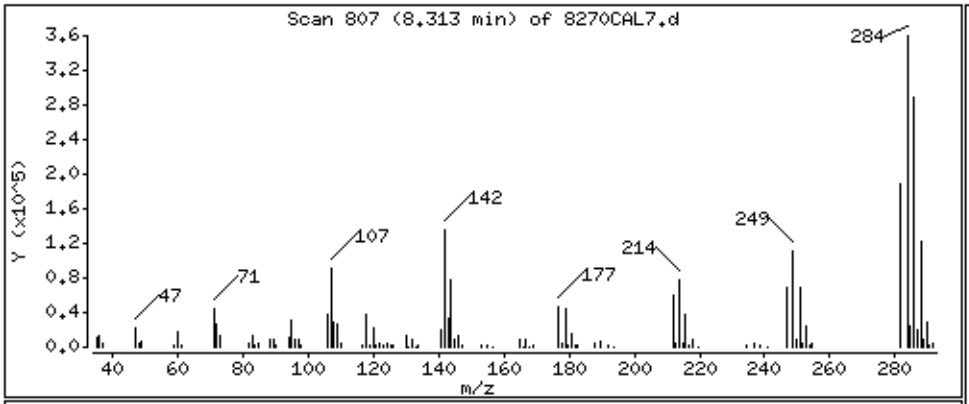
Sample Info: 47763

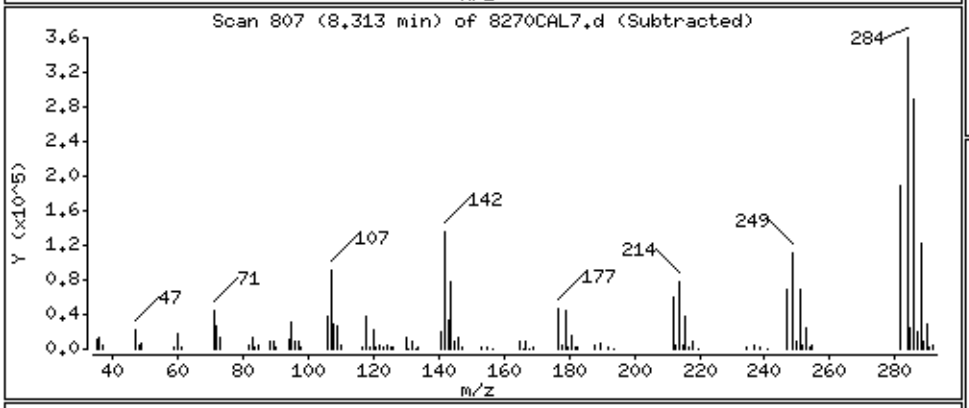
Operator: MJ

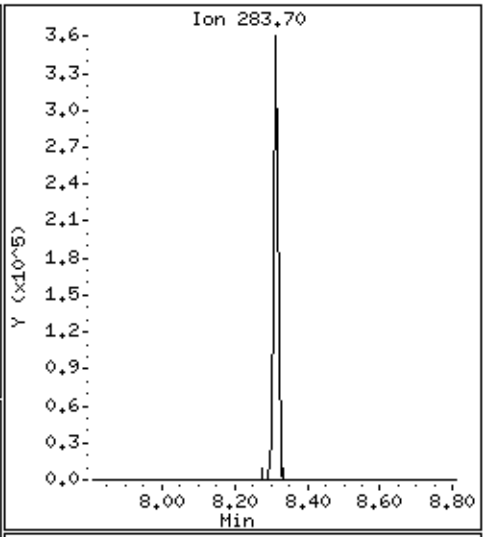
Column phase: HPMS-5

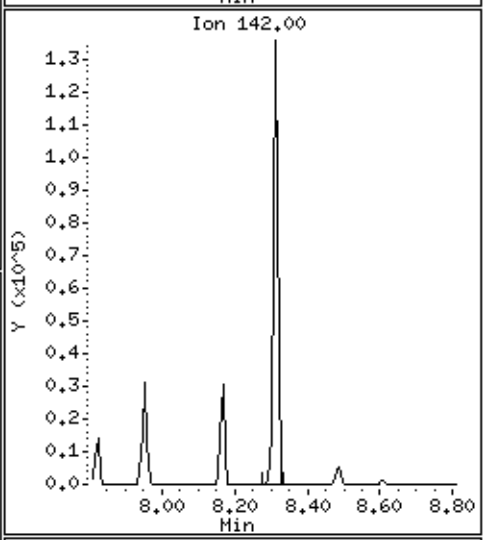
Column diameter: 0.25

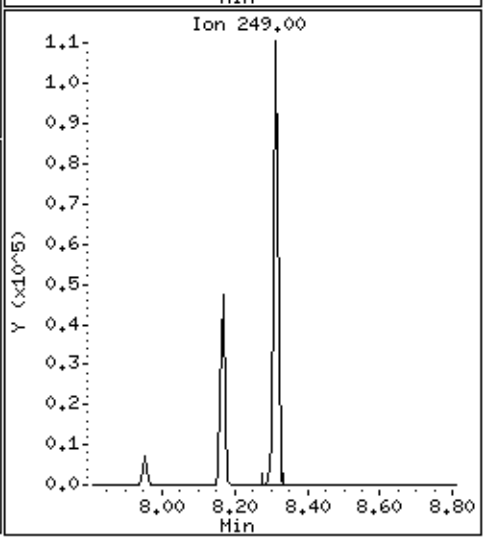
94 Hexachlorobenzene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

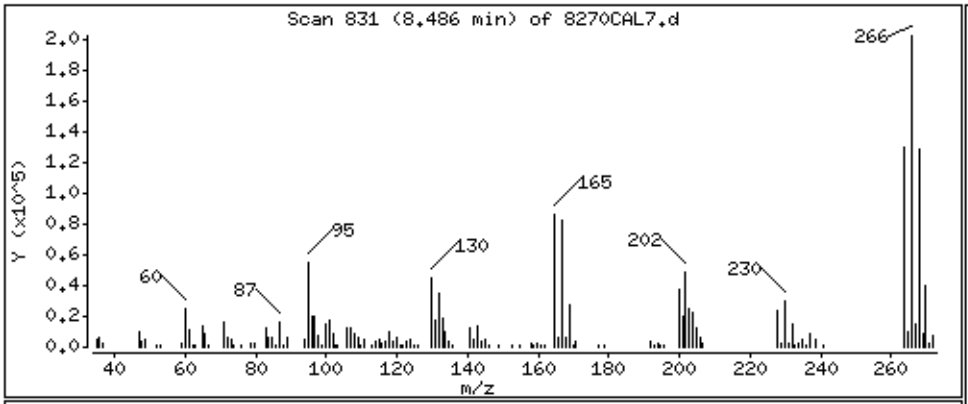
Sample Info: 47763

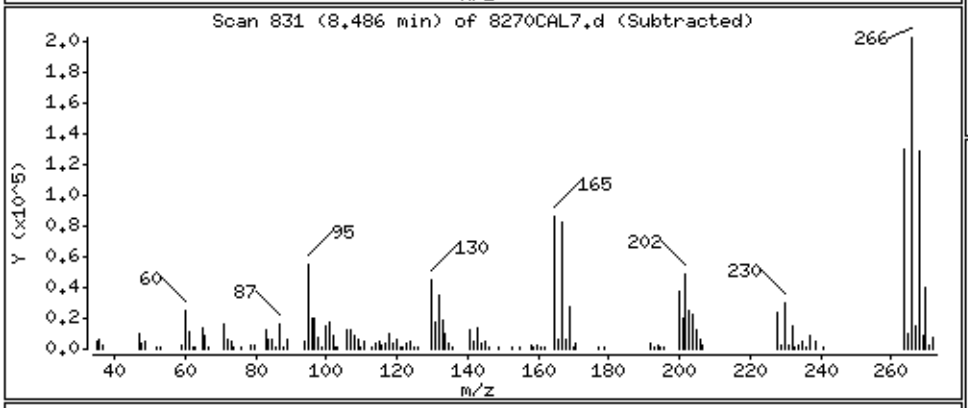
Operator: MJ

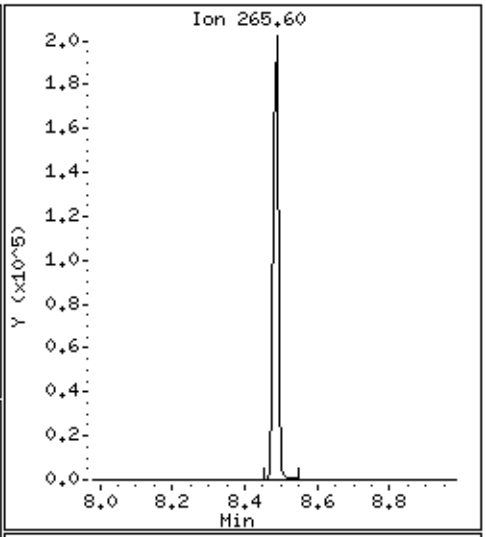
Column phase: HPMS-5

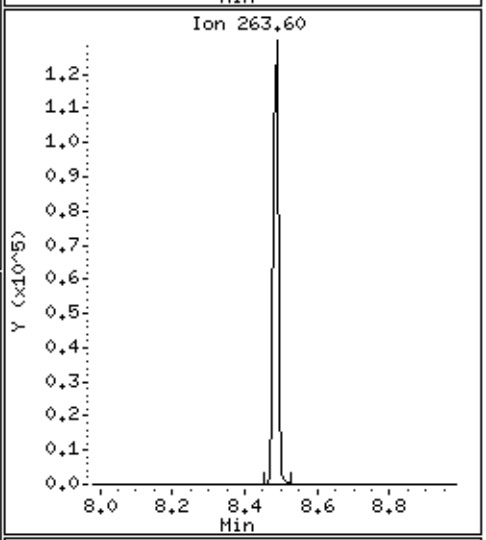
Column diameter: 0.25

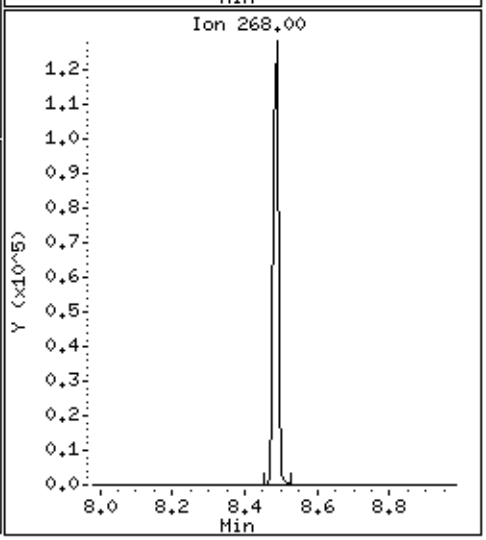
96 Pentachlorophenol











Date : 14-NOV-2012 22:40

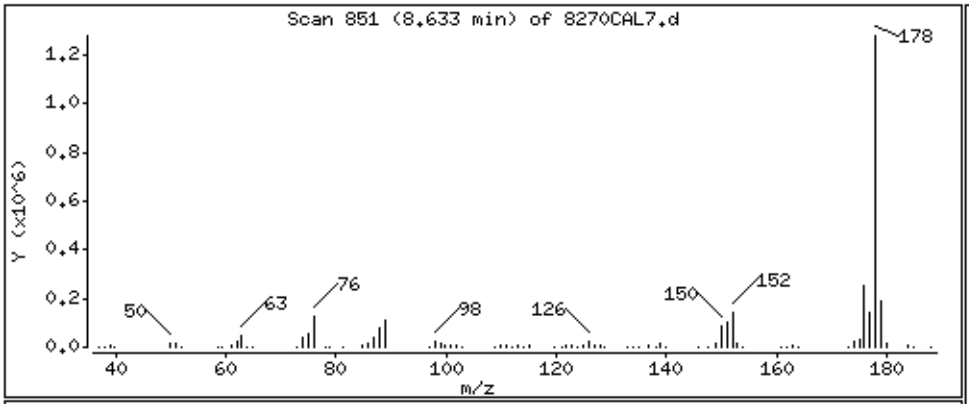
Client ID: 8270CAL7 Instrument: smsd04.i

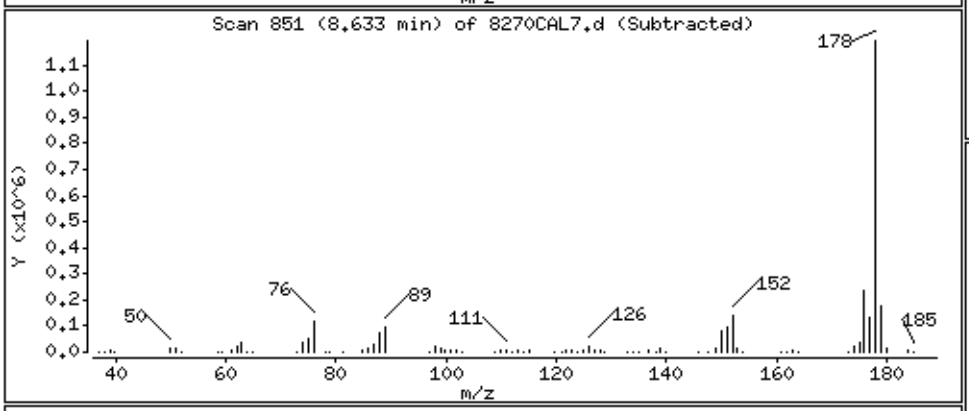
Sample Info: 47763

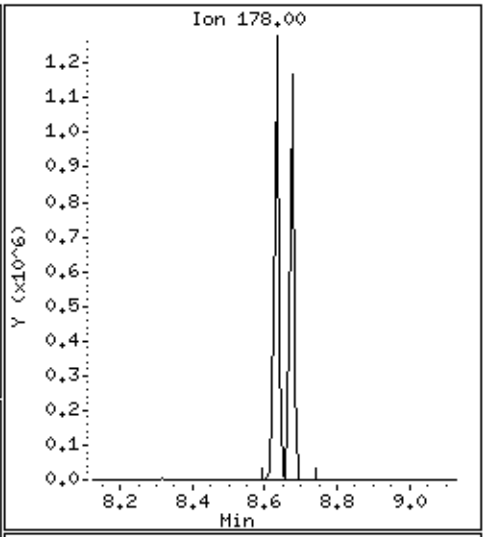
Operator: MJ

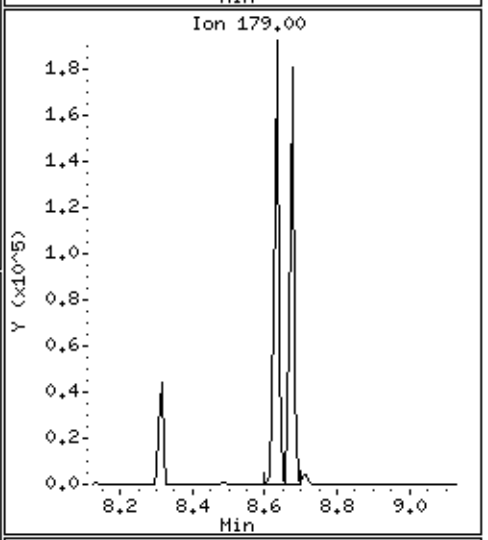
Column phase: HPMS-5 Column diameter: 0.25

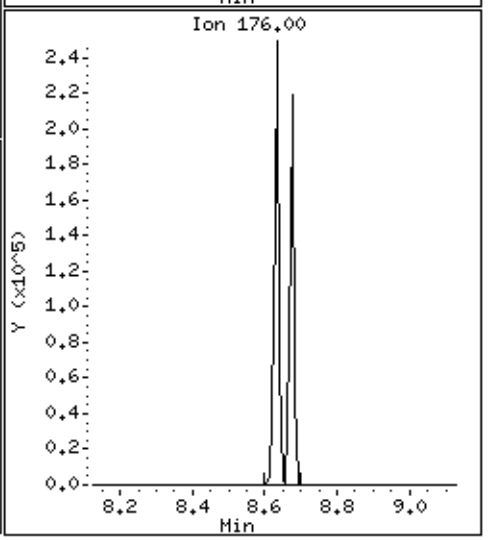
101 Phenanthrene











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

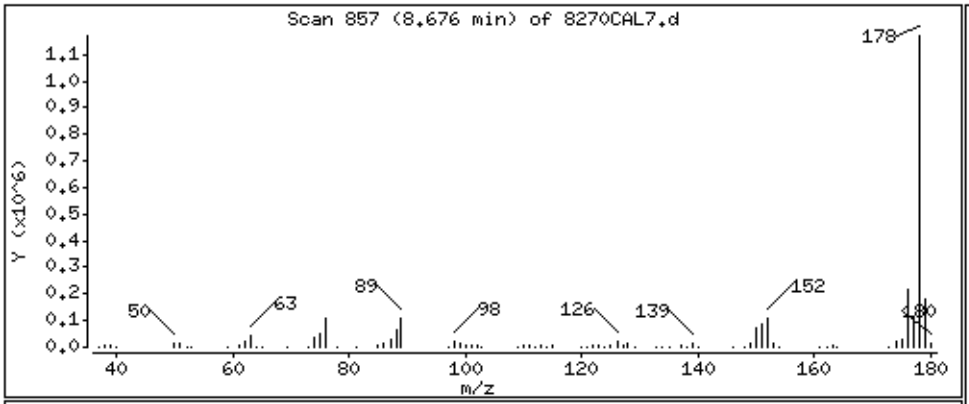
Sample Info: 47763

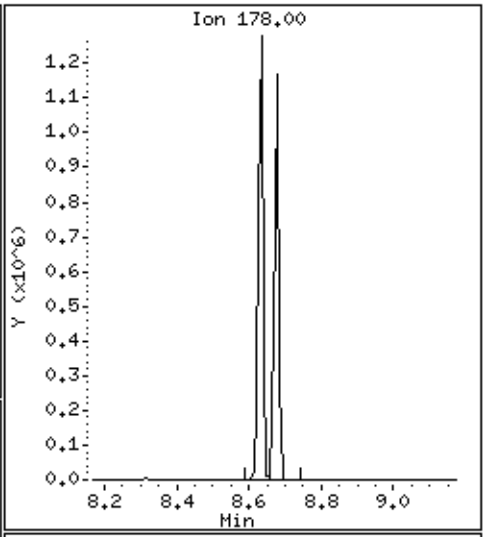
Operator: MJ

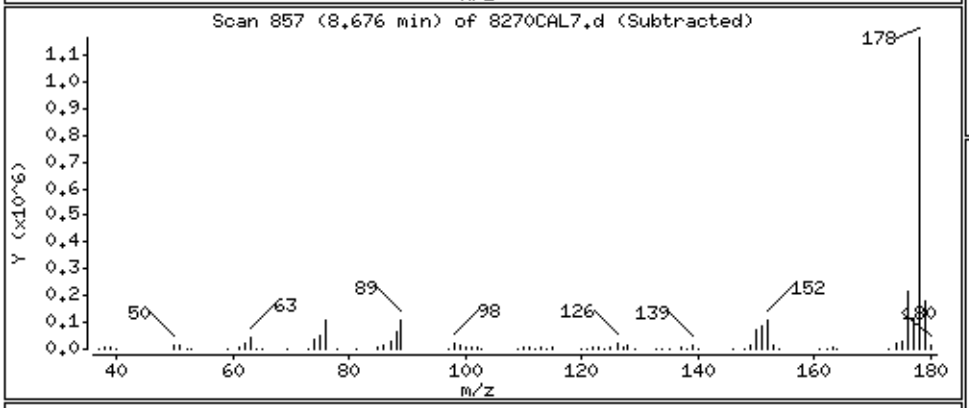
Column phase: HPMS-5

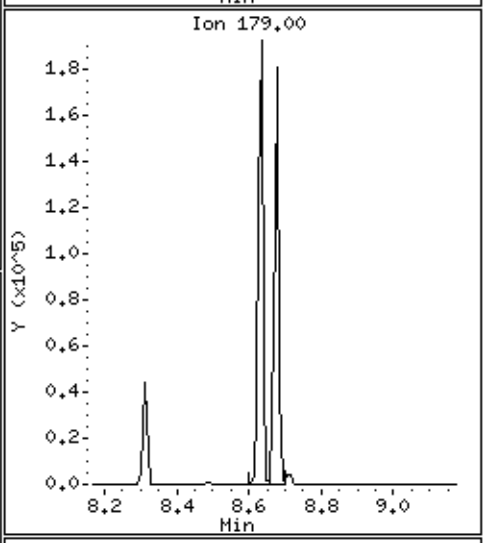
Column diameter: 0.25

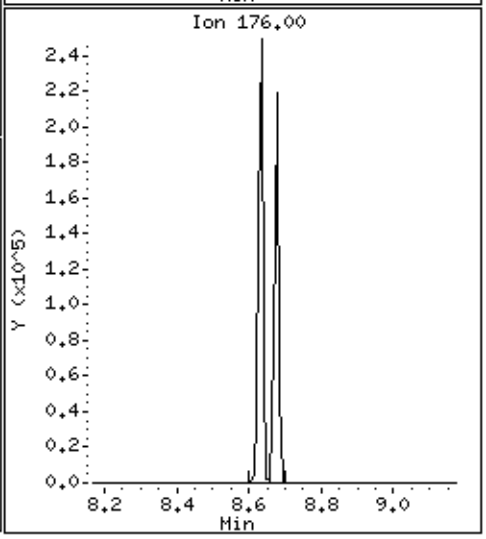
103 Anthracene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

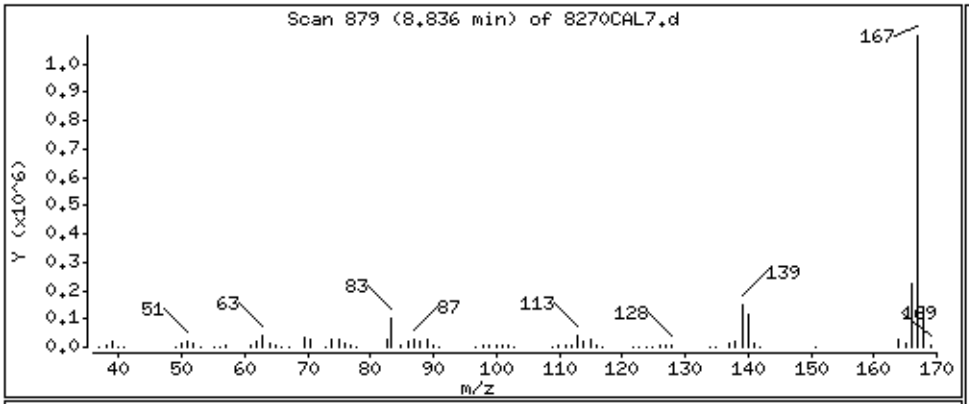
Sample Info: 47763

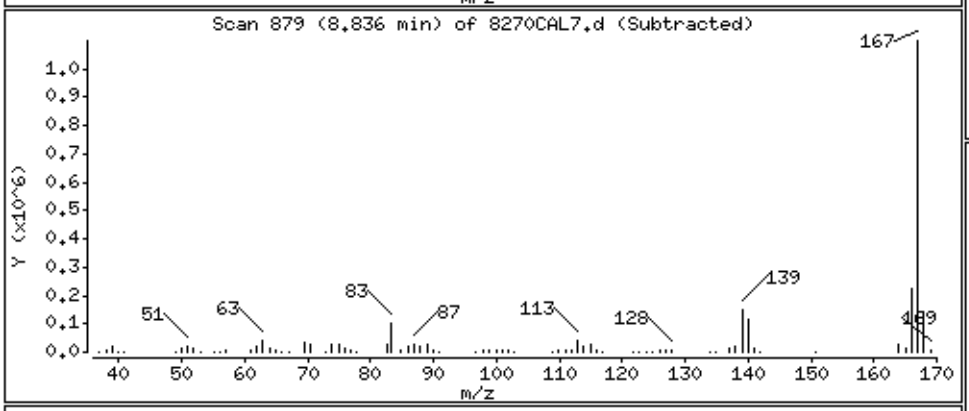
Operator: MJ

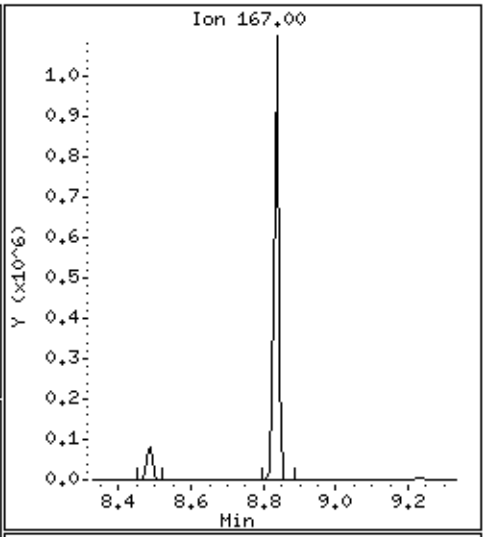
Column phase: HPMS-5

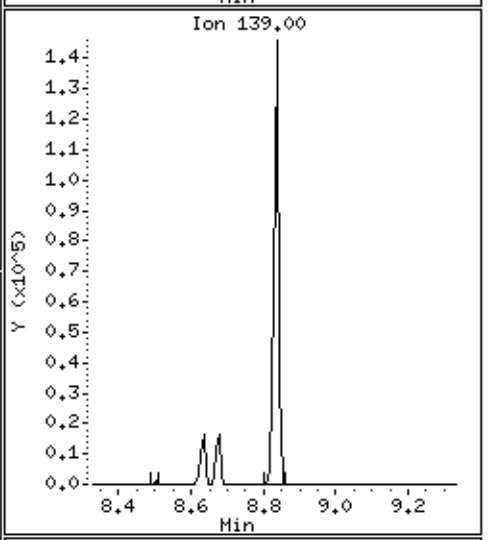
Column diameter: 0.25

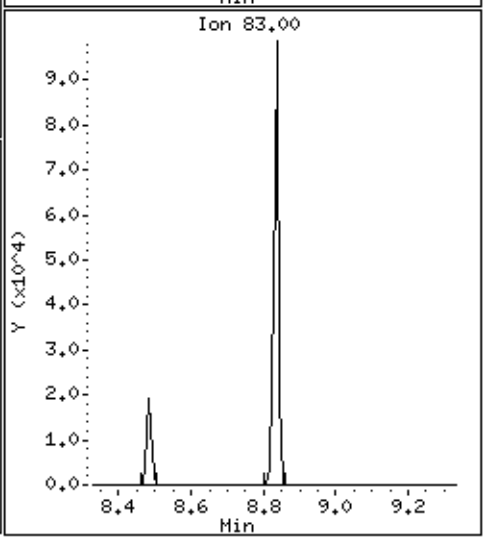
104 Carbazole











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

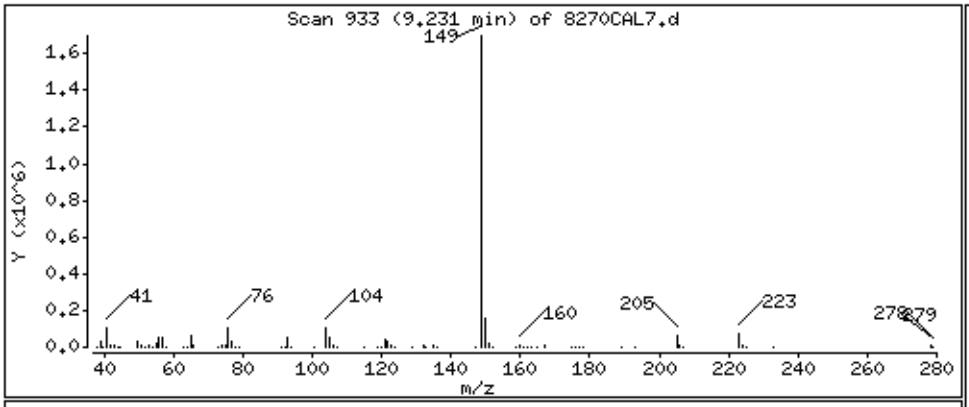
Sample Info: 47763

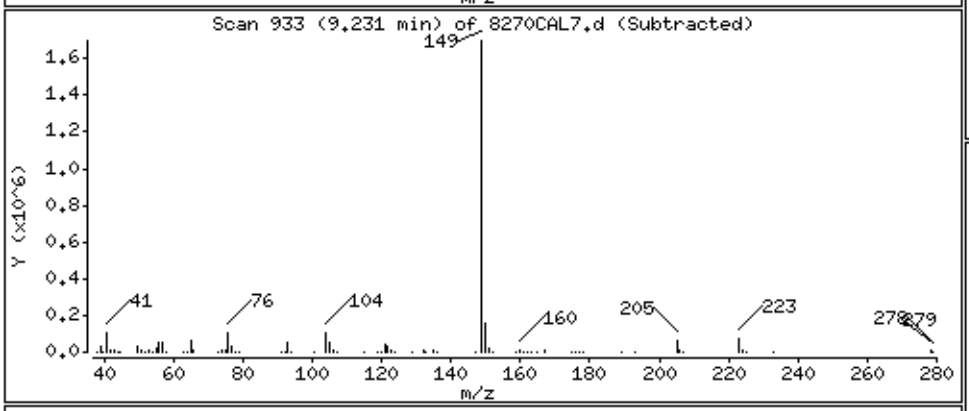
Operator: MJ

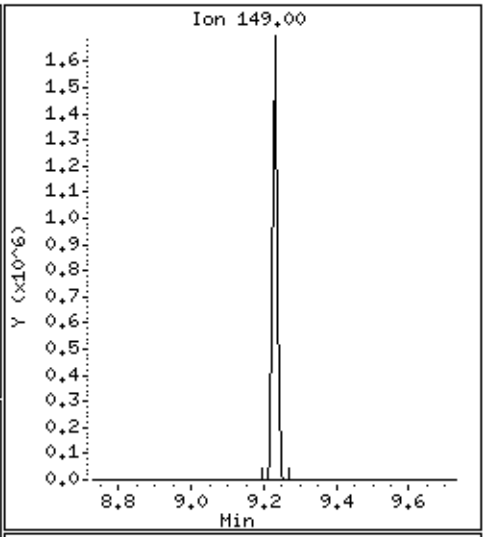
Column phase: HPMS-5

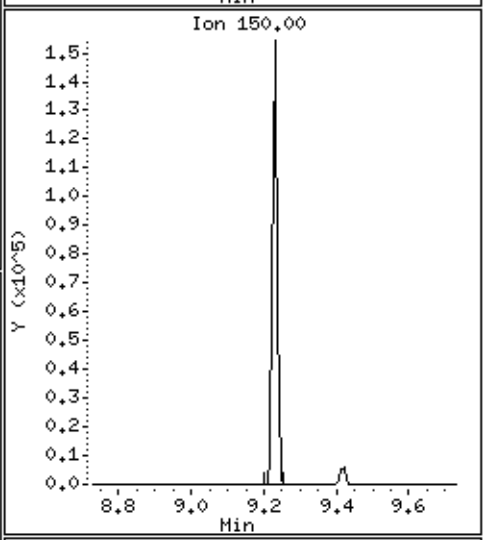
Column diameter: 0.25

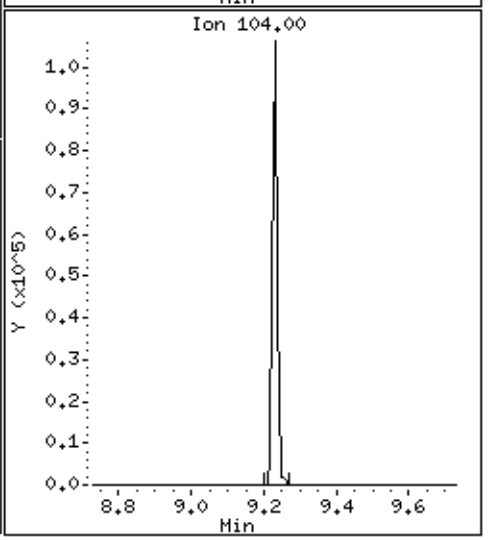
105 Di-n-butylphthalate











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

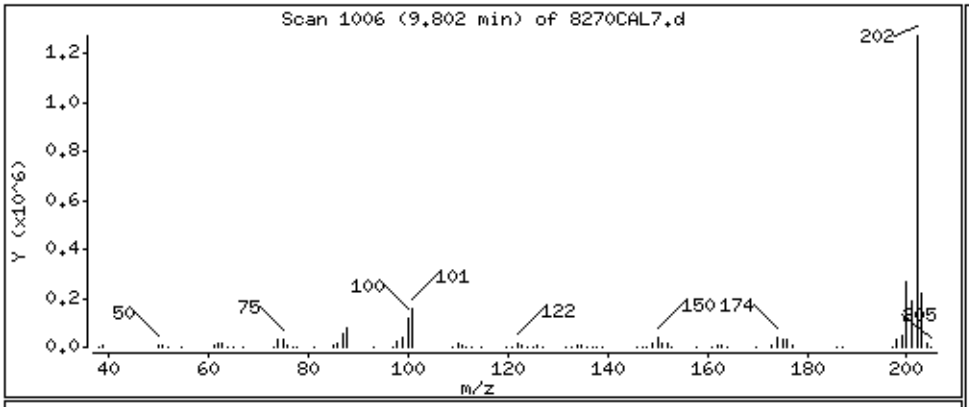
Sample Info: 47763

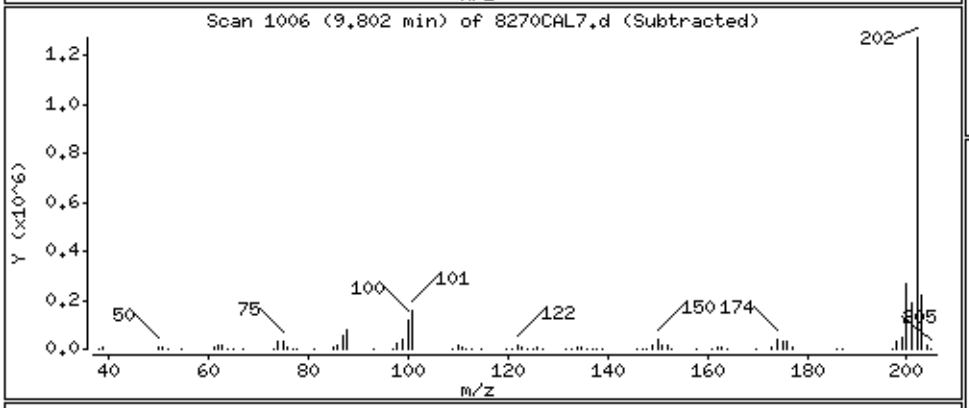
Operator: MJ

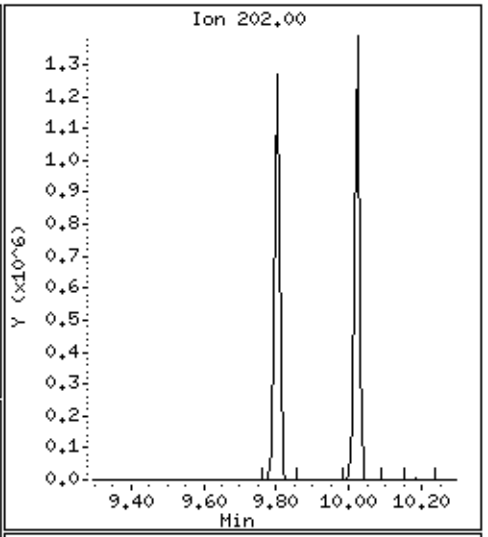
Column phase: HPMS-5

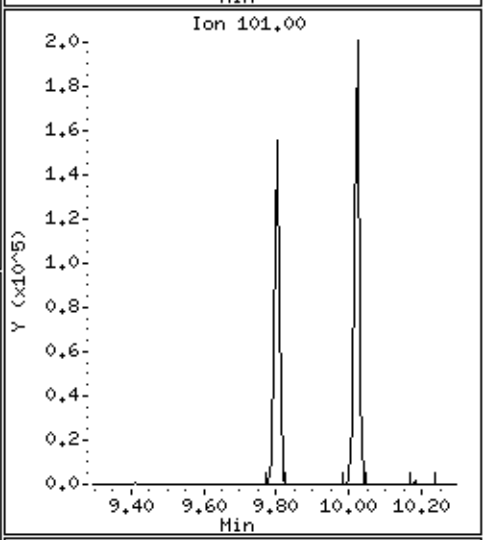
Column diameter: 0.25

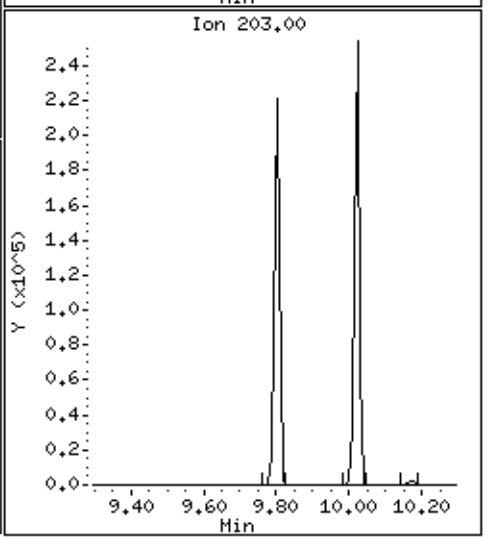
109 Fluoranthene











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

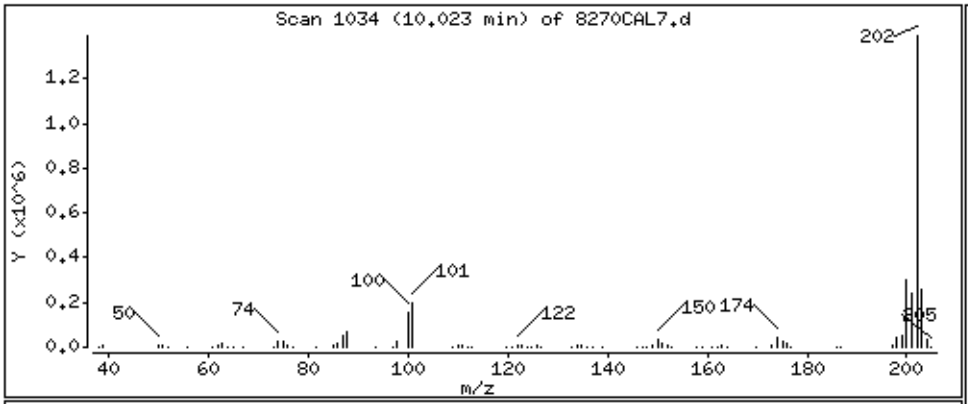
Sample Info: 47763

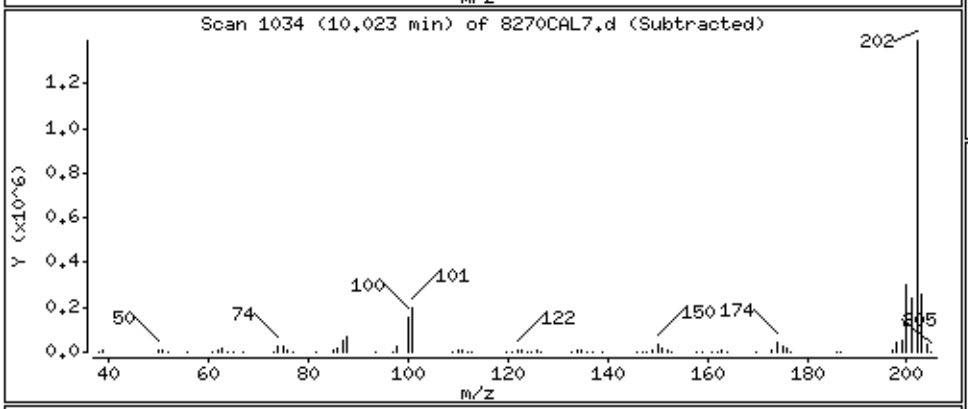
Operator: MJ

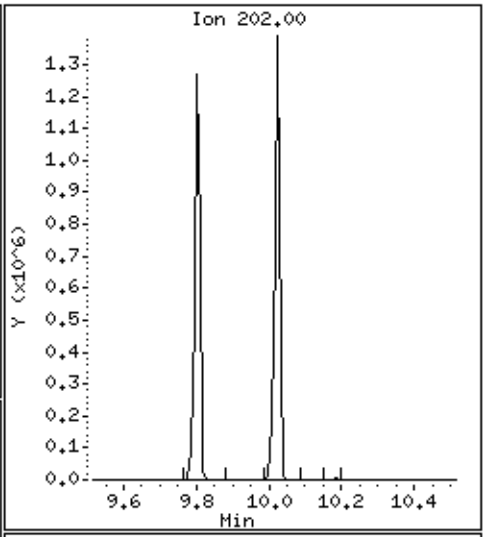
Column phase: HPMS-5

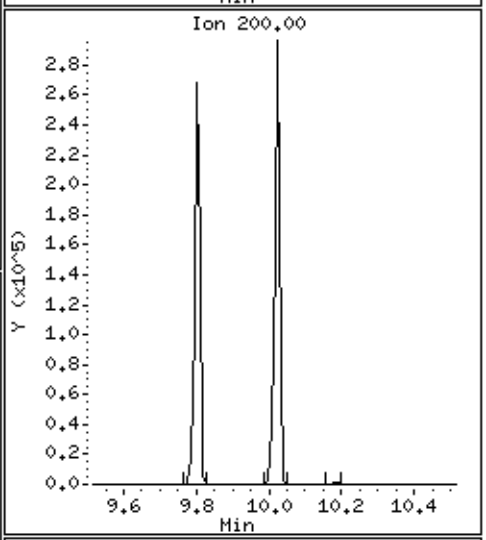
Column diameter: 0.25

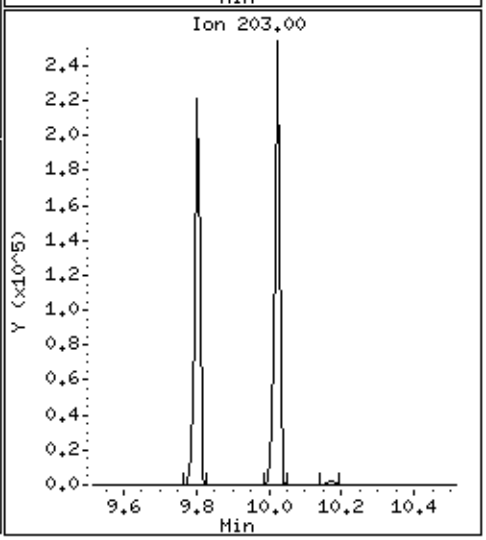
111 Pyrene











Date : 14-NOV-2012 22:40

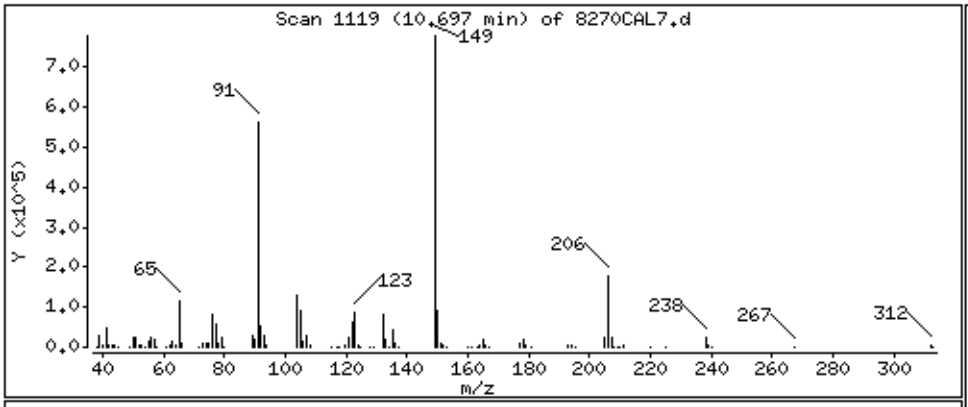
Client ID: 8270CAL7 Instrument: smsd04.i

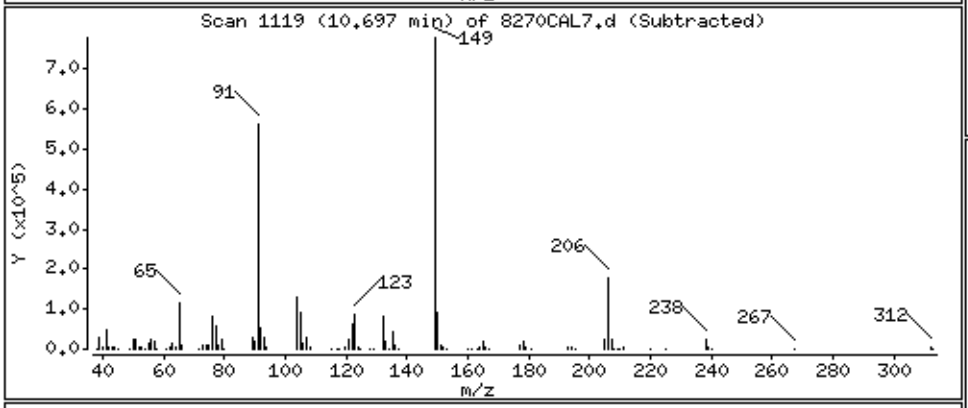
Sample Info: 47763

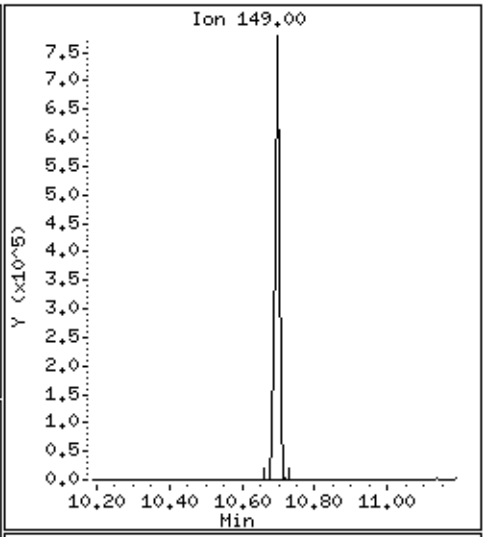
Operator: MJ

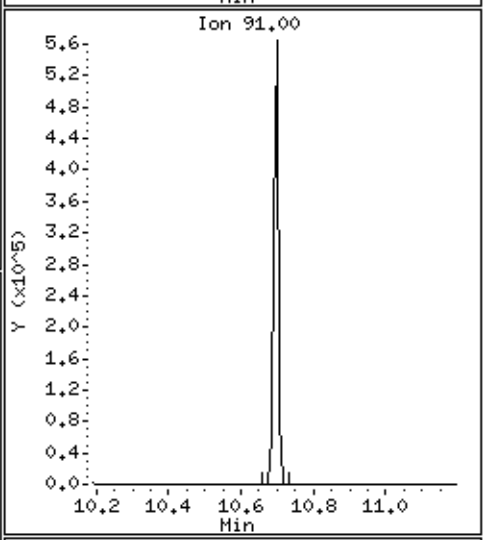
Column phase: HPMS-5 Column diameter: 0.25

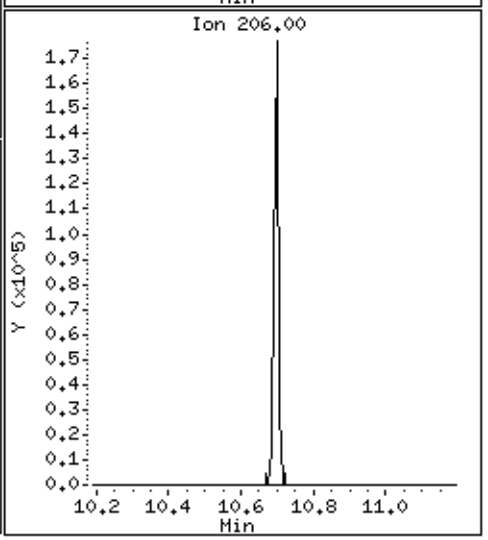
118 Butylbenzylphthalate











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

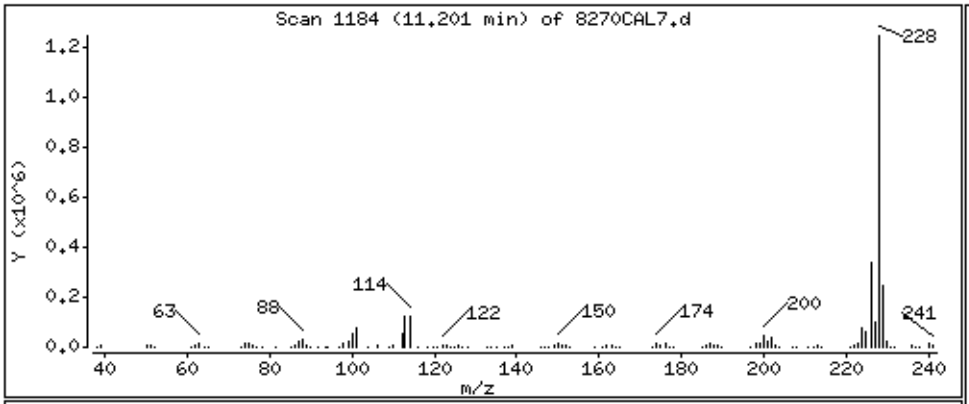
Sample Info: 47763

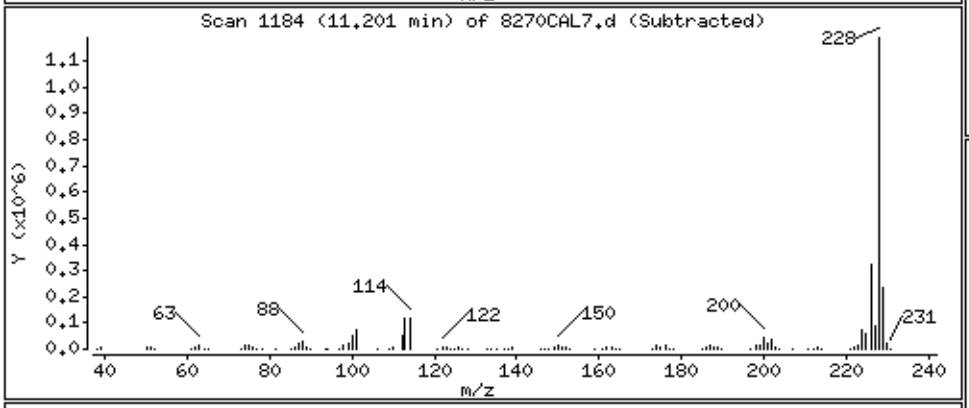
Operator: MJ

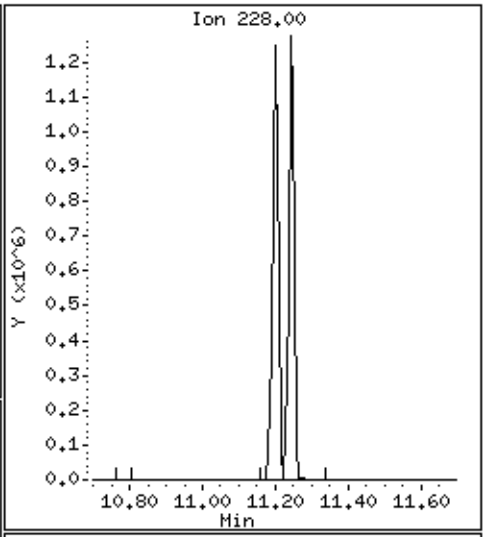
Column phase: HPMS-5

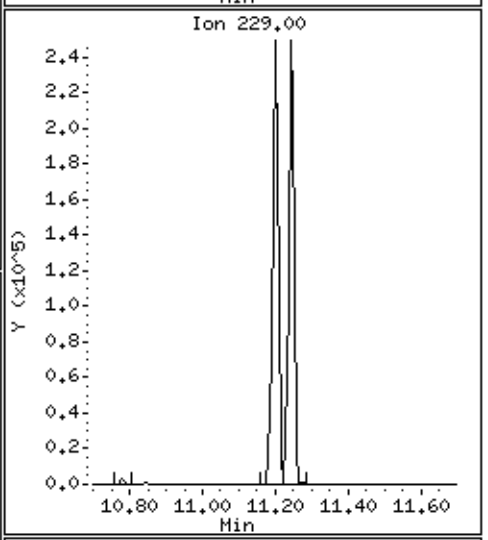
Column diameter: 0.25

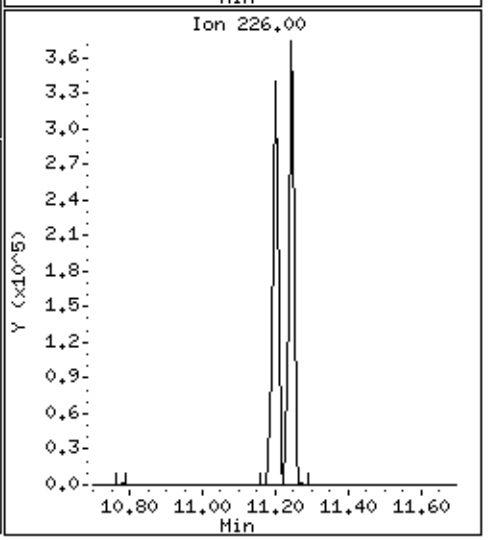
120 Benzo[a]anthracene











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Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

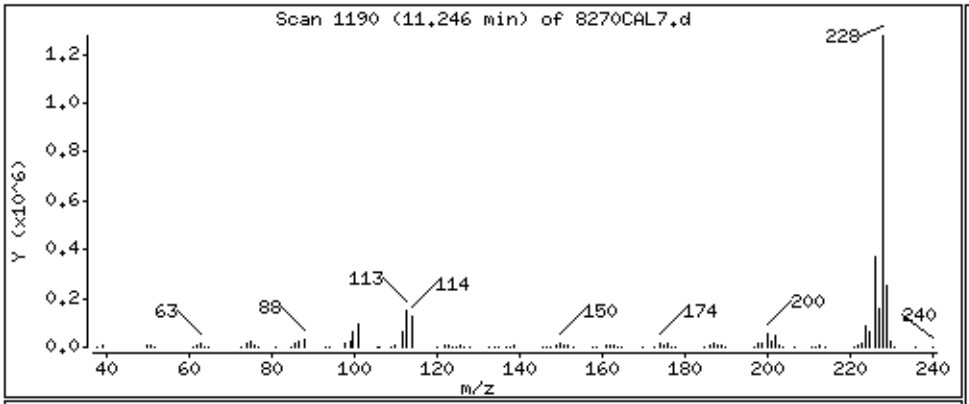
Sample Info: 47763

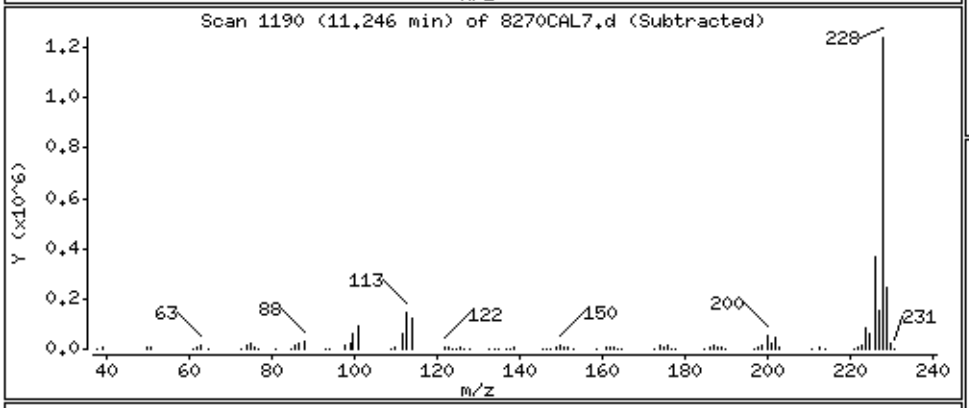
Operator: MJ

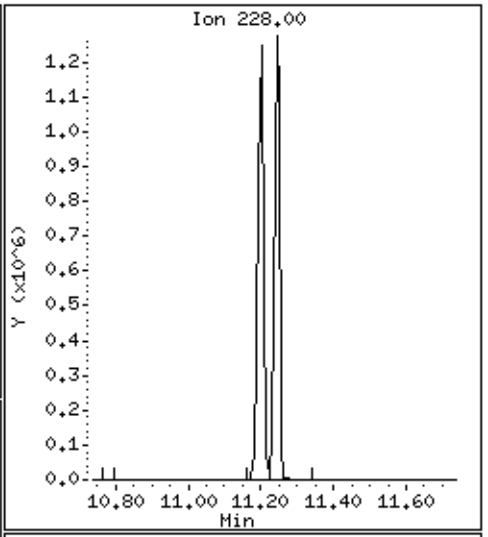
Column phase: HPMS-5

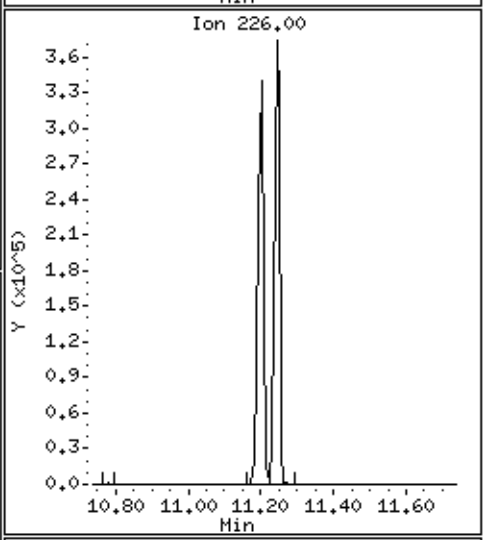
Column diameter: 0.25

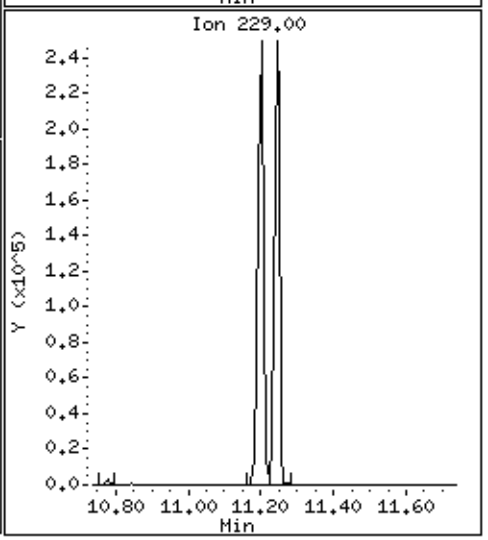
123 Chrysene











Date : 14-NOV-2012 22:40

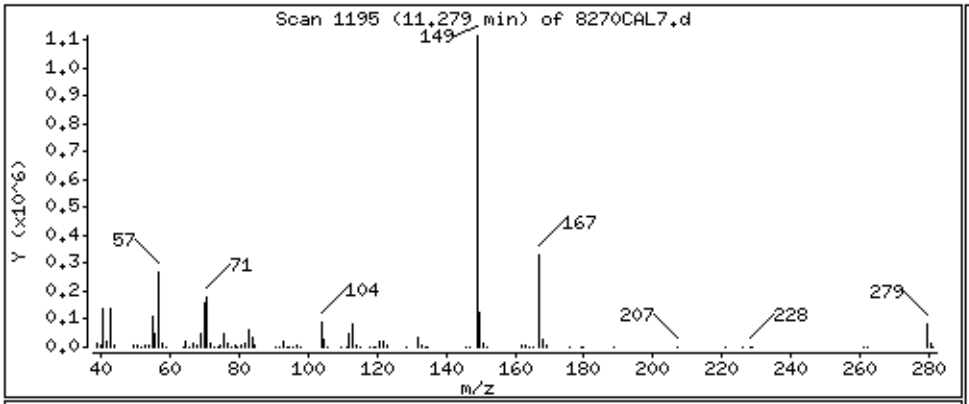
Client ID: 8270CAL7 Instrument: smsd04.i

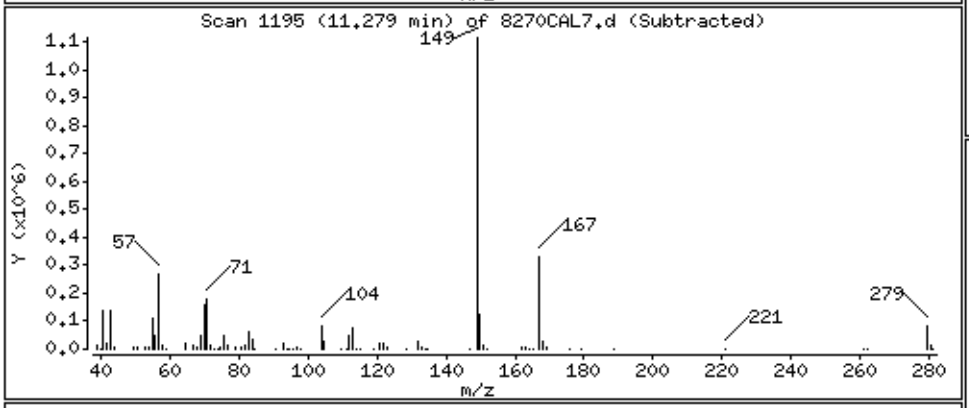
Sample Info: 47763

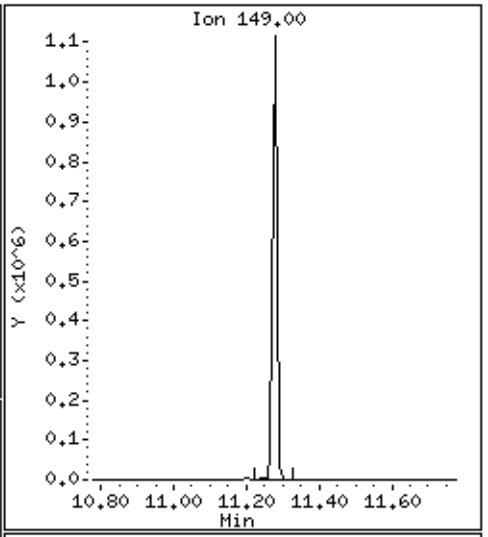
Operator: MJ

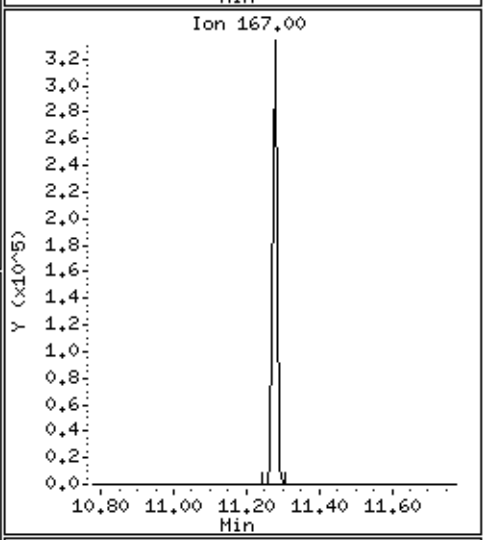
Column phase: HPMS-5 Column diameter: 0.25

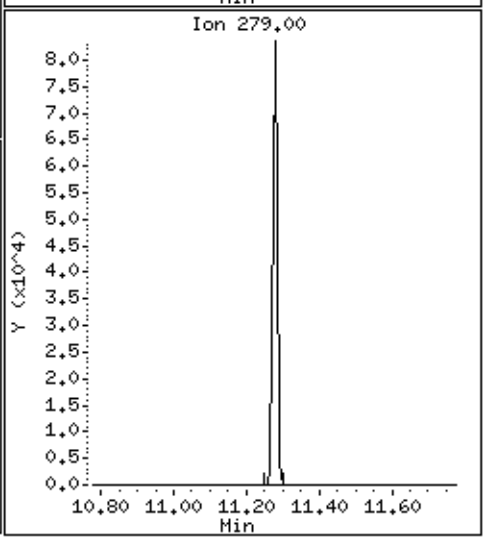
124 Bis-2-Ethylhexylphthalate











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

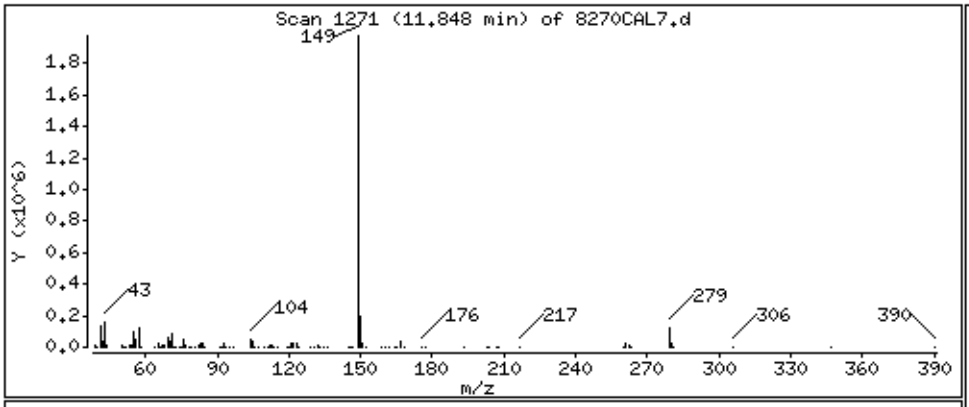
Sample Info: 47763

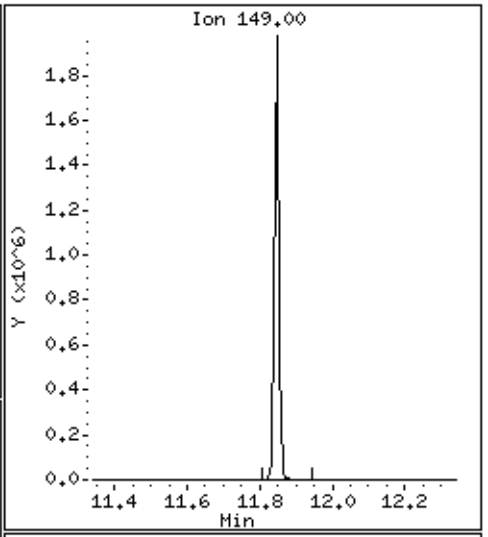
Operator: MJ

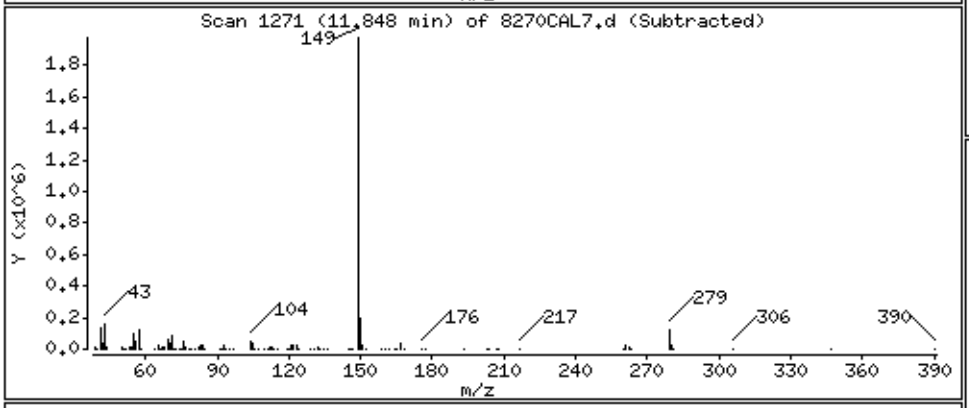
Column phase: HPMS-5

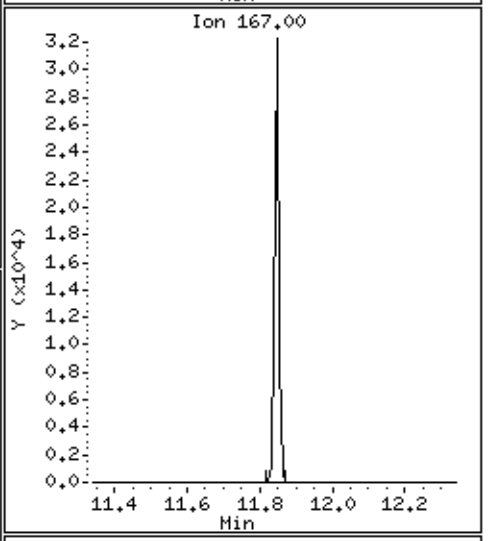
Column diameter: 0.25

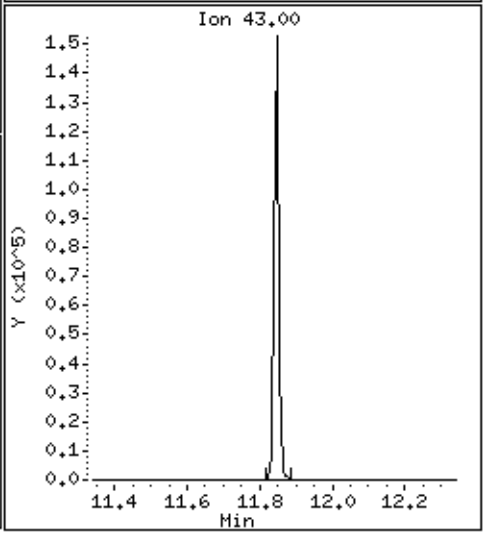
125 Di-n-octylphthalate











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

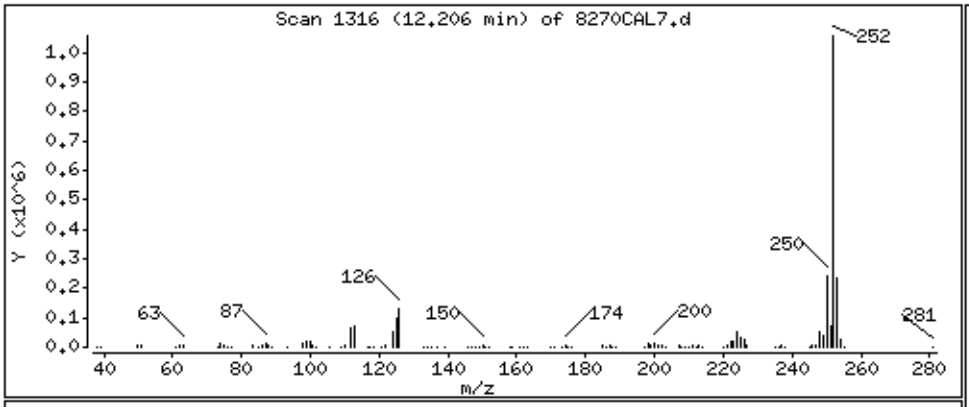
Sample Info: 47763

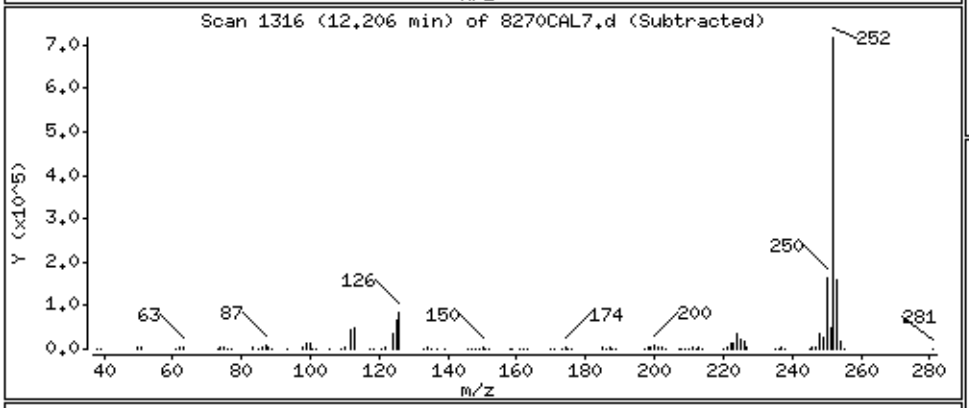
Operator: MJ

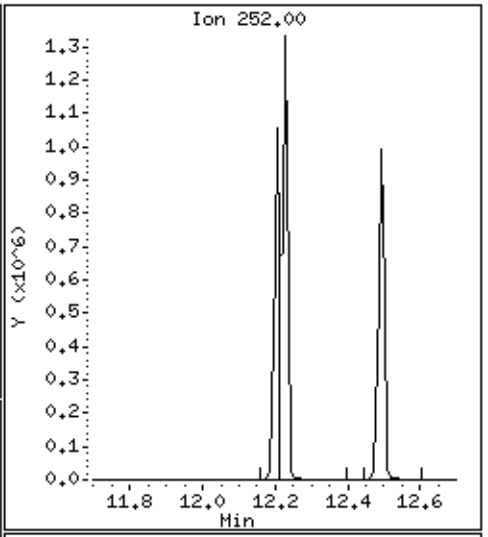
Column phase: HPMS-5

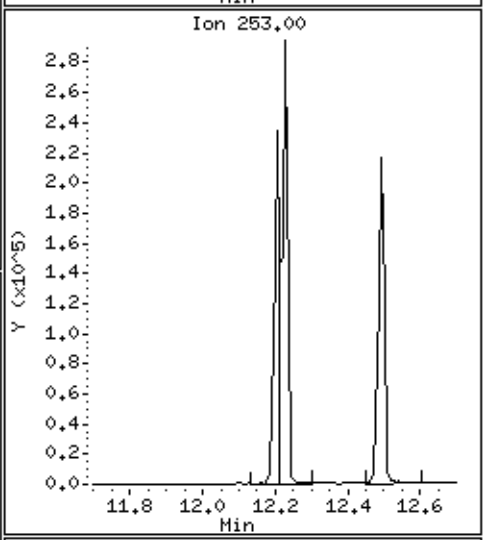
Column diameter: 0.25

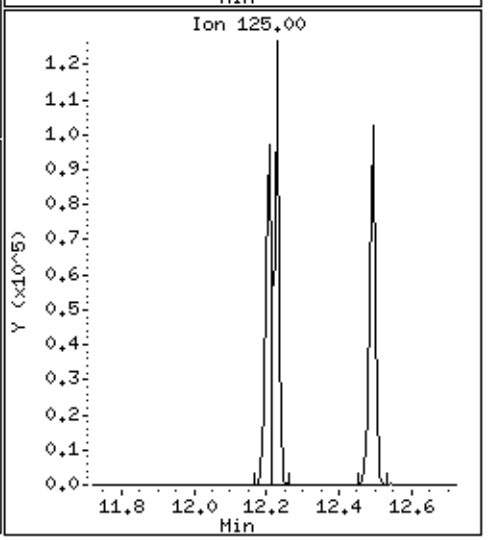
127 Benzo[b]fluoranthene











Date : 14-NOV-2012 22:40

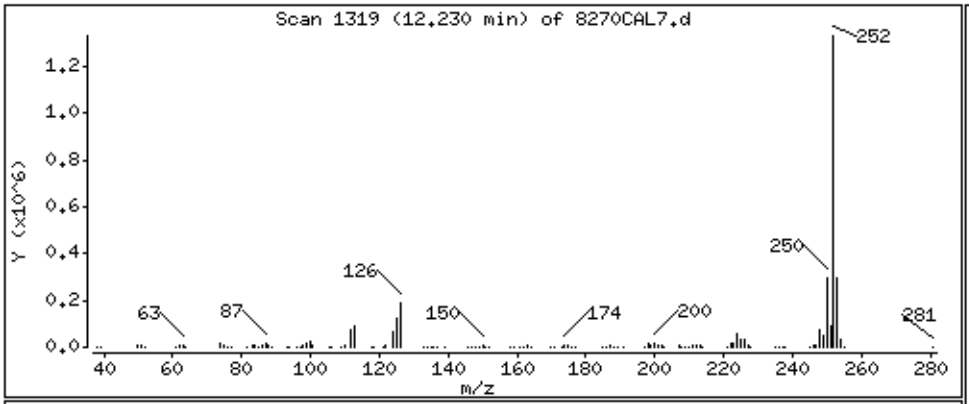
Client ID: 8270CAL7 Instrument: smsd04.i

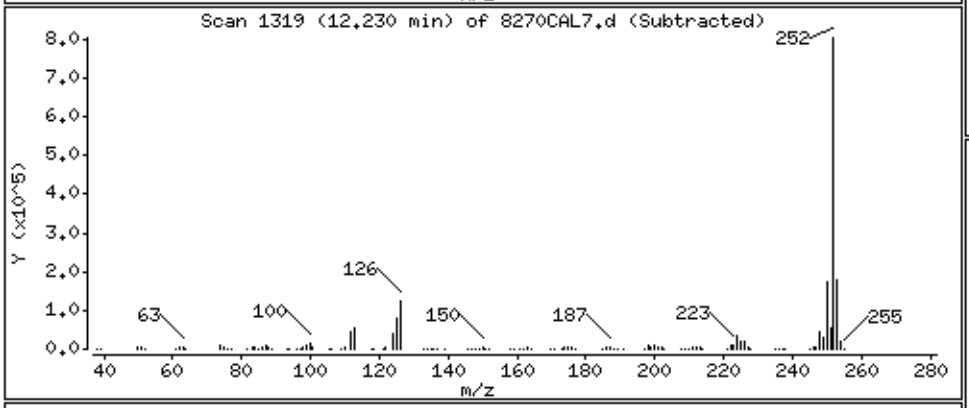
Sample Info: 47763

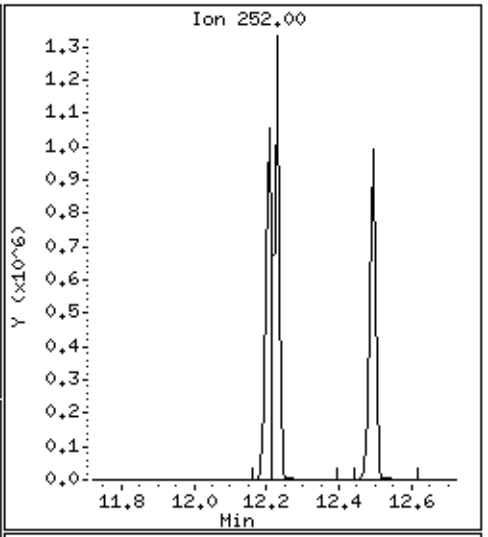
Operator: MJ

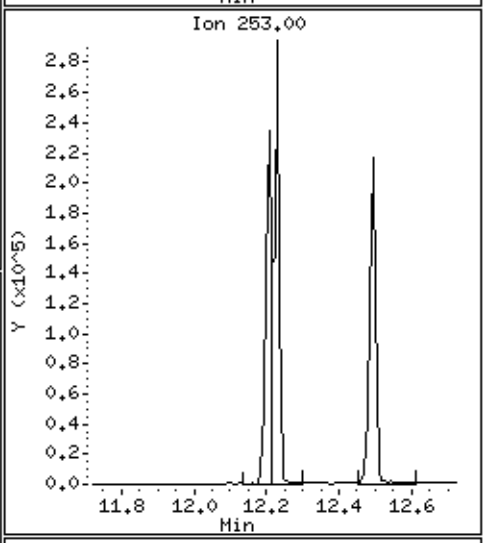
Column phase: HPMS-5 Column diameter: 0.25

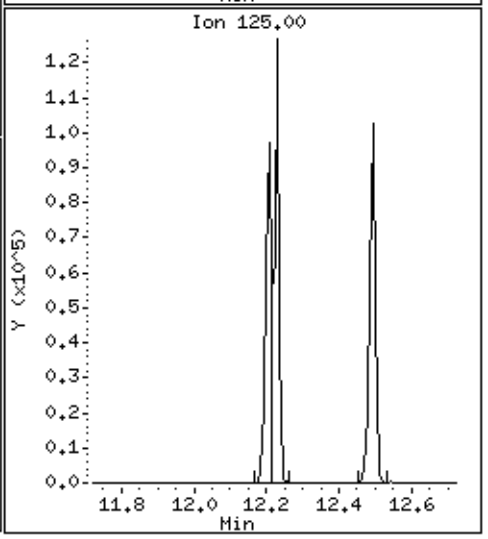
128 Benzo[k]fluoranthene











Date : 14-NOV-2012 22:40

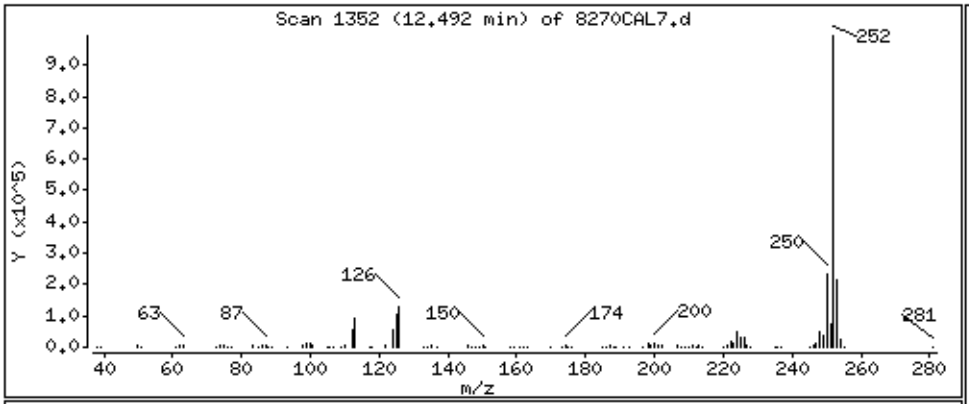
Client ID: 8270CAL7 Instrument: smsd04.i

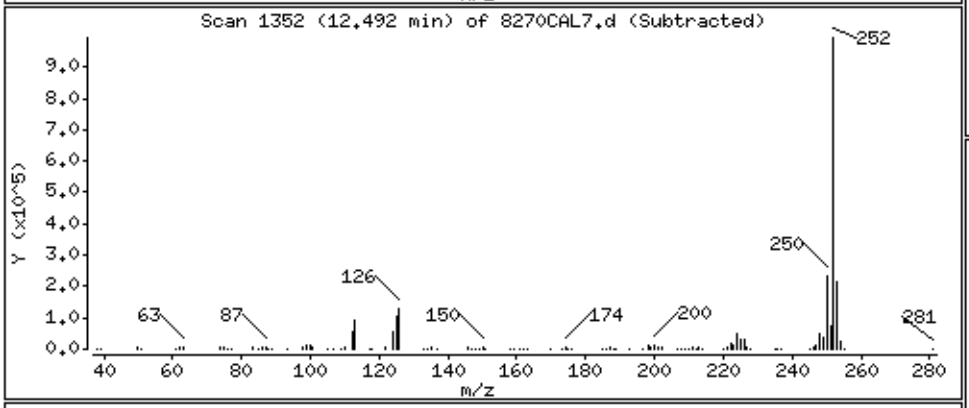
Sample Info: 47763

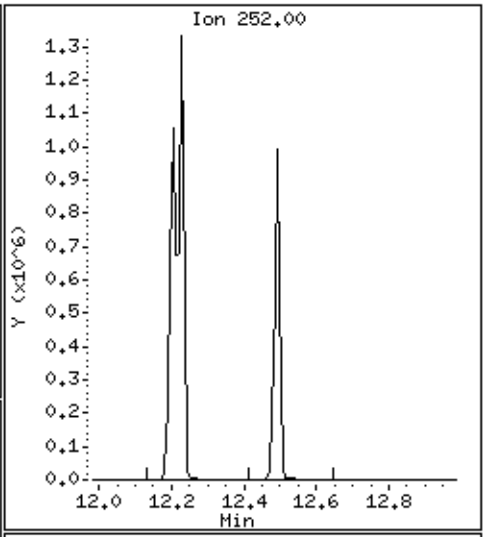
Operator: MJ

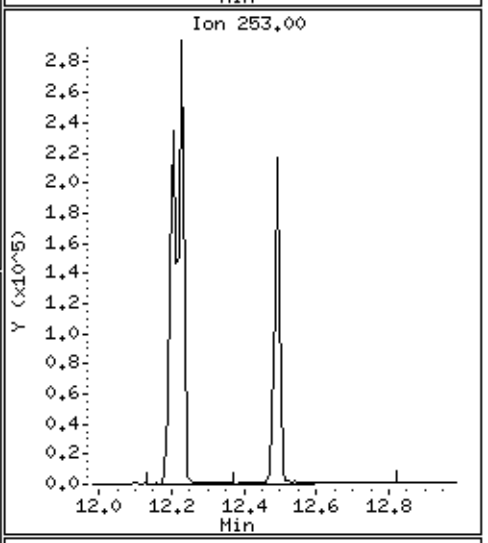
Column phase: HPMS-5 Column diameter: 0.25

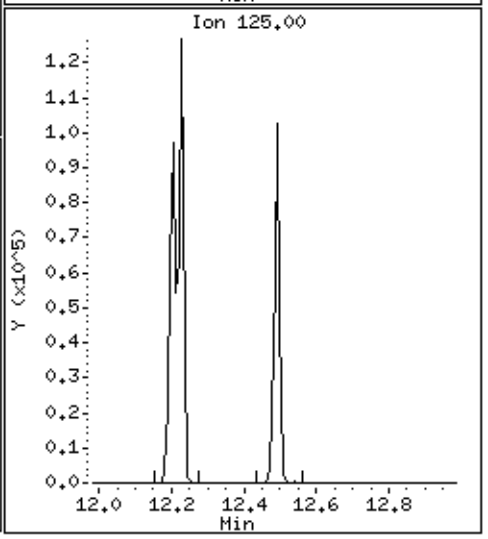
129 Benzo[a]pyrene











Date : 14-NOV-2012 22:40

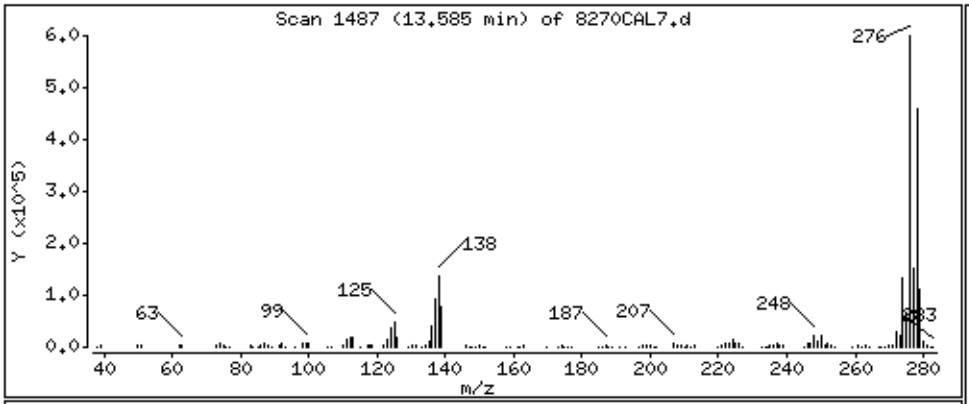
Client ID: 8270CAL7 Instrument: smsd04.i

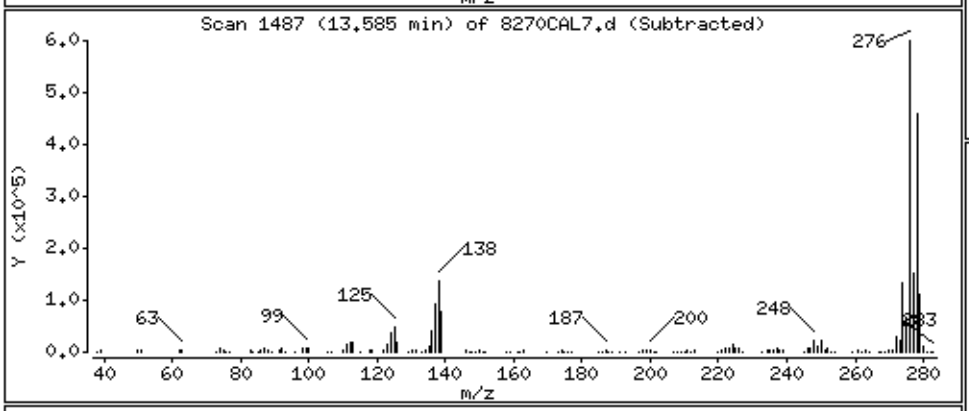
Sample Info: 47763

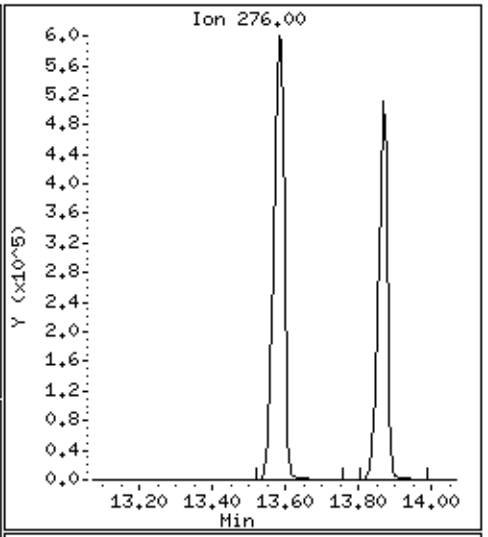
Operator: MJ

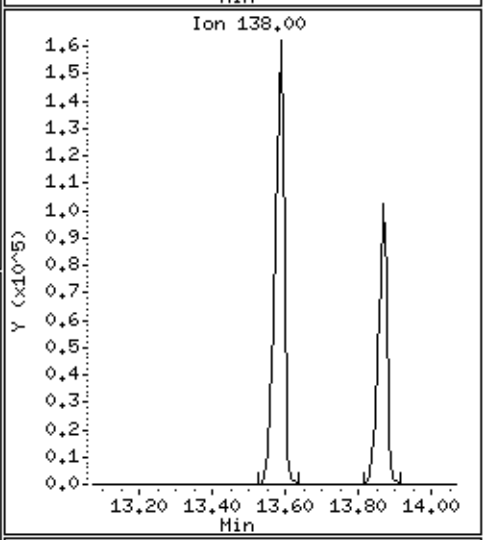
Column phase: HPMS-5 Column diameter: 0.25

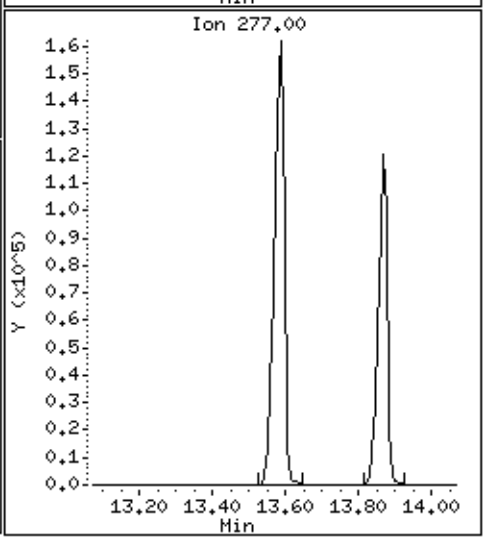
133 Indeno[1,2,3-cd]pyrene











Date : 14-NOV-2012 22:40

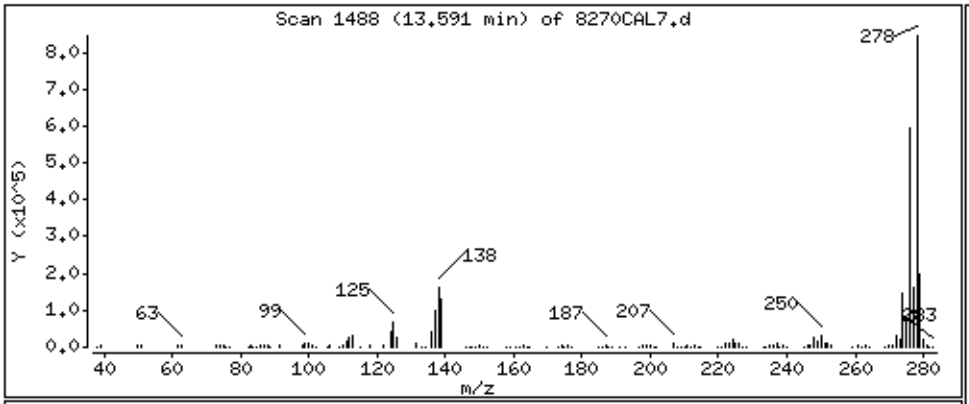
Client ID: 8270CAL7 Instrument: smsd04.i

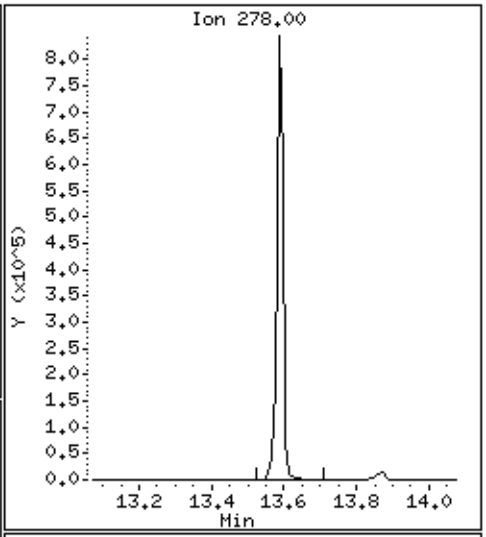
Sample Info: 47763

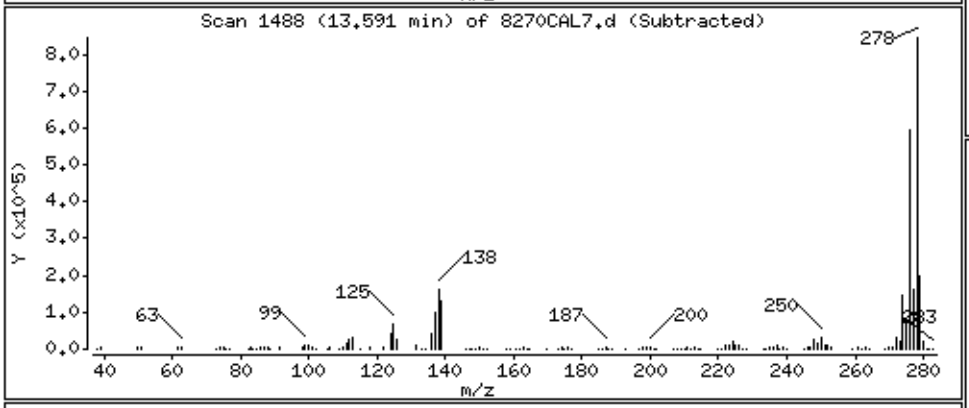
Operator: MJ

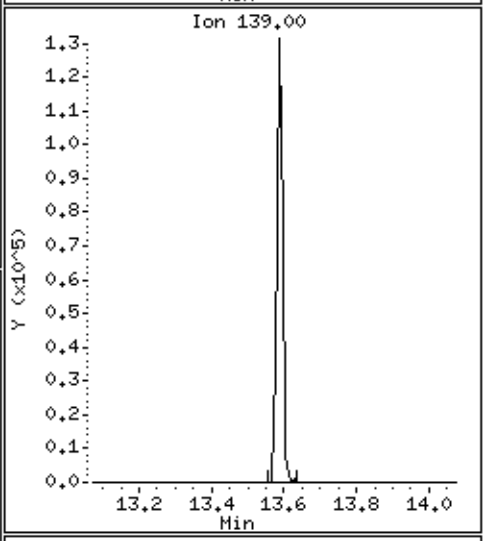
Column phase: HPMS-5 Column diameter: 0.25

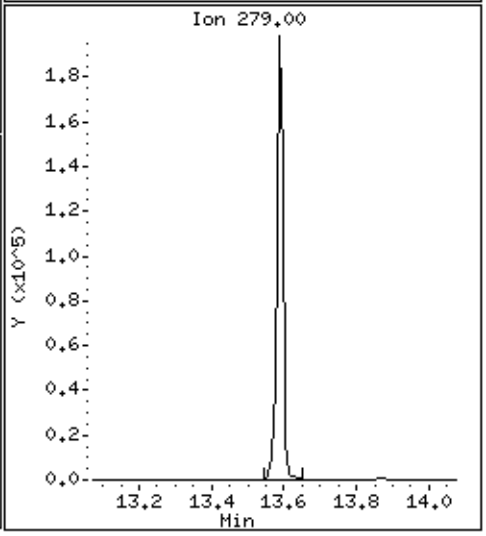
134 Dibenz[a,h]anthracene











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL7.d

Date : 14-NOV-2012 22:40

Client ID: 8270CAL7

Instrument: smsd04.i

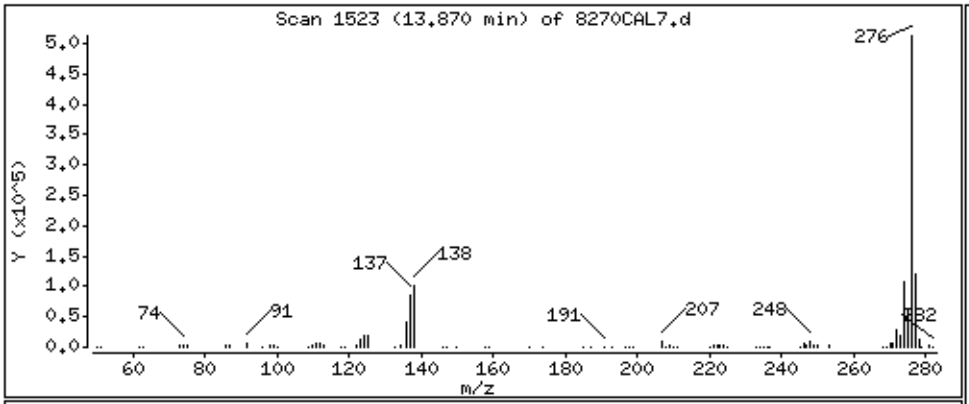
Sample Info: 47763

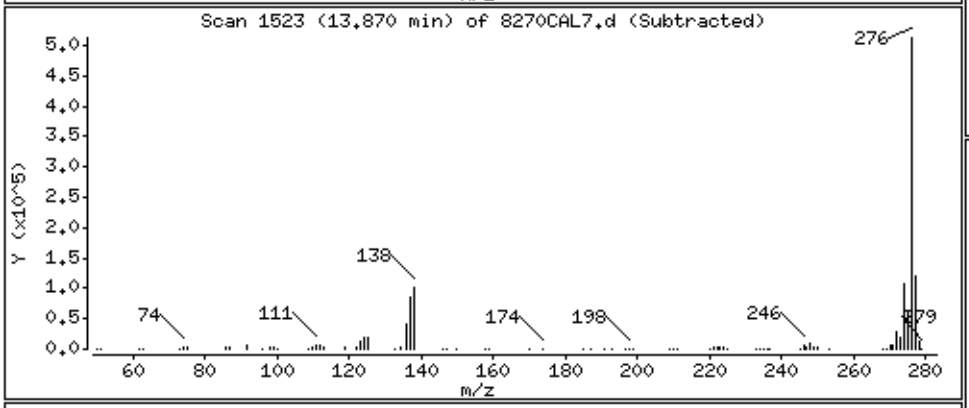
Operator: MJ

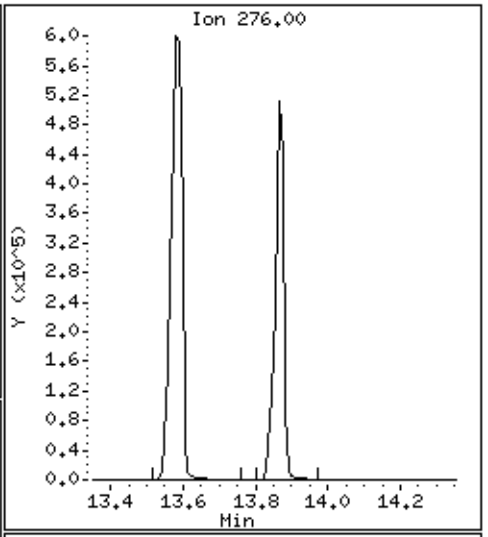
Column phase: HPMS-5

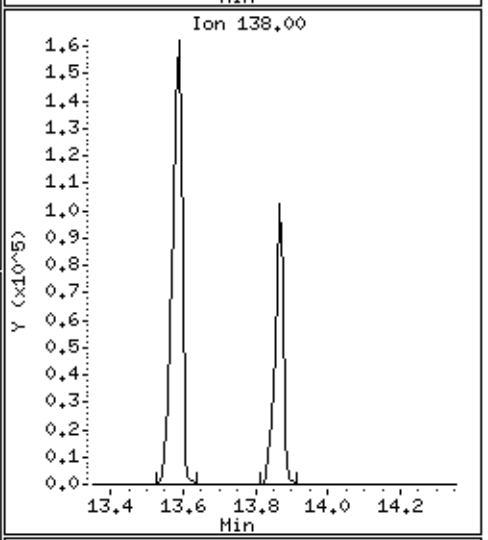
Column diameter: 0.25

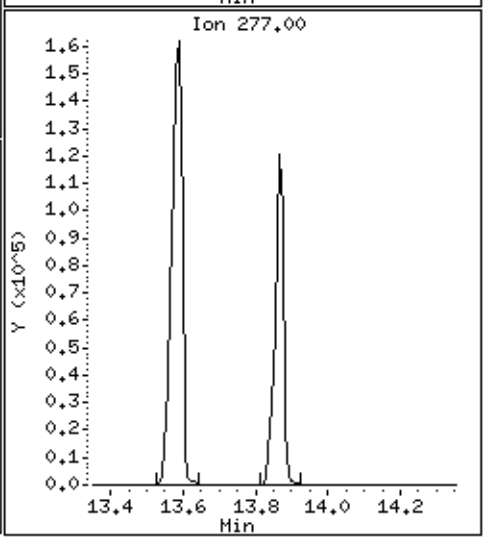
135 Benzo[g,h,i]perylene











PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d
Lab Smp Id: 47764 Client Smp ID: 8270CAL6
Inj Date : 14-NOV-2012 23:01 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47764
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270bcs.m
Meth Date : 26-Nov-2012 13:58 smsd04.i Quant Type: ISTD
Cal Date : 15-OCT-2012 13:38 Cal File: AP9CAL6.d
Als bottle: 22 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8270caln.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
	2 Pyridine					CAS #: 110-86-1		
2.228	2.228 (0.519)	79	269379	75.0000		74.7	80.00- 120.00	100.00
2.228	2.228 (0.518)	52	175423				35.30- 95.30	65.12
M	16 Cresols (Total)					CAS #: 1319-77-3		
			470342	150.000				(a)
	1 N-Nitrosodimethylamine					CAS #: 62-75-9		
2.220	2.220 (0.517)	42	118037	75.0000		73.5	80.00- 120.00	100.00
2.221	2.220 (0.517)	74	155101				97.07- 157.07	131.40
2.220	2.221 (0.517)	44	5732				0.00- 34.98	4.86
$	6 2-Fluorophenol (SURR)					CAS #: 367-12-4		
3.248	3.246 (0.756)	112	476379	150.000		145	80.00- 120.00	100.00
3.248	3.246 (0.756)	64	291544				32.62- 92.62	61.20
$	11 Phenol-d5 (SURR)					CAS #: 4165-62-2		
4.011	4.006 (0.933)	99	608518	150.000		145	80.00- 120.00	100.00
4.010	4.006 (0.933)	42	118127				0.00- 49.74	19.41
4.010	4.006 (0.933)	71	255607				12.66- 72.66	42.00

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
13 Phenol						CAS #: 108-95-2		
4.022	4.016	(0.936)	94	352046	75.0000	73.5	80.00- 120.00	100.00
4.022	4.016	(0.936)	65	97197			0.94- 60.94	27.61
4.020	4.015	(0.936)	66	166081			21.40- 81.40	47.18
10 Aniline						CAS #: 62-53-3		
4.047	4.046	(0.942)	93	325667	75.0000	76.0	80.00- 120.00	100.00(Q)
4.047	4.046	(0.942)	65	80821			0.00- 50.97	24.82
4.047	4.046	(0.942)	66	154363			12.95- 72.95	47.40
14 Bis(2-Chloroethyl)ether						CAS #: 111-44-4		
4.095	4.094	(0.953)	93	232110	75.0000	73.5	80.00- 120.00	100.00
4.095	4.093	(0.953)	63	174123			43.04- 103.04	75.02
4.095	4.094	(0.953)	95	75201			1.90- 61.90	32.40
15 2-Chlorophenol						CAS #: 95-57-8		
4.144	4.142	(0.964)	128	229658	75.0000	74.4	80.00- 120.00	100.00
4.143	4.142	(0.964)	64	124527			24.14- 84.14	54.22
4.144	4.142	(0.964)	130	74334			2.15- 62.15	32.37
17 1,3-Dichlorobenzene						CAS #: 541-73-1		
4.268	4.267	(0.993)	146	274661	75.0000	74.5	80.00- 120.00	100.00
4.268	4.267	(0.993)	148	176883			34.15- 94.15	64.40
4.268	4.267	(0.993)	111	123127			14.34- 74.34	44.83
* 18 1,4-Dichlorobenzene-d4						CAS #: 3855-82-1		
4.298	4.294	(1.000)	152	96497	40.0000		80.00- 120.00	100.00
4.297	4.294	(1.000)	115	61262			34.81- 94.81	63.49
4.298	4.294	(1.000)	150	182361			126.51- 186.51	188.98
19 1,4-Dichlorobenzene						CAS #: 106-46-7		
4.311	4.311	(1.003)	146	286697	75.0000	75.2	80.00- 120.00	100.00
4.311	4.311	(1.003)	148	182529			36.10- 96.10	63.67
4.311	4.311	(1.003)	111	125574			14.95- 74.95	43.80
21 Benzyl alcohol						CAS #: 100-51-6		
4.433	4.429	(1.032)	108	155781	75.0000	73.6	80.00- 120.00	100.00
4.433	4.429	(1.031)	79	242735			126.03- 186.03	155.82
4.433	4.429	(1.031)	77	165361			76.75- 136.75	106.15
20 1,2-Dichlorobenzene						CAS #: 95-50-1		
4.479	4.478	(1.042)	146	262337	75.0000	73.7	80.00- 120.00	100.00
4.479	4.478	(1.042)	148	165290			33.36- 93.36	63.01
4.479	4.478	(1.042)	111	119823			18.07- 78.07	45.68
22 2-Methylphenol						CAS #: 95-48-7		
4.540	4.538	(1.056)	107	187685	75.0000	73.8	80.00- 120.00	100.00
4.540	4.538	(1.056)	108	209591			83.56- 143.56	111.67
4.540	4.538	(1.056)	79	105432			27.79- 87.79	56.17
23 2,2'-oxybis(1-chloropropane)						CAS #: 108-60-1		
4.572	4.571	(1.064)	45	292556	75.0000	74.0	80.00- 120.00	100.00
4.572	4.571	(1.064)	77	55393			0.00- 47.34	18.93

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	23 2,2'-oxybis(1-chloropropane) (continued)							
4.572	4.571 (1.064)		121	80204			0.00- 56.71	27.41
	28 4-Methylphenol					CAS #: 106-44-5		
4.674	4.668 (1.088)		107	282657	75.0000	72.8	80.00- 120.00	100.00
4.674	4.668 (1.088)		108	231546			51.88- 111.88	81.92
4.674	4.668 (1.087)		79	77564			0.00- 57.76	27.44
	26 N-Nitrosodinpropylamine					CAS #: 621-64-7		
4.704	4.699 (1.095)		70	199228	75.0000	74.4	80.00- 120.00	100.00
4.704	4.699 (1.095)		42	105062			21.53- 81.53	52.73
4.705	4.699 (1.095)		130	43851			0.00- 51.40	22.01
	30 Hexachloroethane					CAS #: 67-72-1		
4.754	4.753 (1.106)		117	119950	75.0000	75.1	80.00- 120.00	100.00
4.754	4.754 (1.106)		201	113141			63.39- 123.39	94.32
4.754	4.754 (1.106)		199	69820			26.40- 86.40	58.21
$	31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0		
4.820	4.818 (0.881)		82	308458	75.0000	73.6	80.00- 120.00	100.00
4.820	4.818 (0.882)		128	114163			6.68- 66.68	37.01
4.820	4.818 (0.881)		54	150559			19.12- 79.12	48.81
	32 Nitrobenzene					CAS #: 98-95-3		
4.837	4.834 (0.885)		77	300256	75.0000	73.5	80.00- 120.00	100.00
4.837	4.835 (0.885)		123	114283			6.73- 66.73	38.06
4.837	4.834 (0.884)		65	44224			0.00- 43.84	14.73
	34 Isophorone					CAS #: 78-59-1		
5.050	5.046 (0.923)		82	523087	75.0000	73.4	80.00- 120.00	100.00
5.050	5.047 (0.924)		138	83018			0.00- 45.91	15.87
5.050	5.046 (0.923)		95	41382			0.00- 37.77	7.91
	35 2-Nitrophenol					CAS #: 88-75-5		
5.129	5.128 (0.938)		139	129470	75.0000	75.1	80.00- 120.00	100.00
5.128	5.127 (0.938)		65	80538			33.65- 93.65	62.21
5.129	5.127 (0.938)		109	55748			13.08- 73.08	43.06
	36 2,4-Dimethylphenol					CAS #: 105-67-9		
5.160	5.158 (0.944)		122	192467	75.0000	75.6	80.00- 120.00	100.00
5.160	5.158 (0.944)		107	252802			100.42- 160.42	131.35
5.160	5.158 (0.944)		121	111388			27.73- 87.73	57.87
	38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1		
5.254	5.252 (0.961)		93	304622	75.0000	74.1	80.00- 120.00	100.00
5.254	5.252 (0.961)		95	99639			2.66- 62.66	32.71
5.255	5.252 (0.961)		123	44309			0.00- 43.79	14.55
	40 Benzoic Acid					CAS #: 65-85-0		
5.286	5.267 (0.967)		122	136127	75.0000	74.4	80.00- 120.00	100.00
5.285	5.267 (0.966)		105	195497			114.27- 174.27	143.61
5.285	5.267 (0.967)		77	169019			94.81- 154.81	124.16

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
41 2,4-Dichlorophenol							CAS #: 120-83-2	
5.344	5.342 (0.977)		162	218454	75.0000	72.7	80.00- 120.00	100.00
5.344	5.342 (0.977)		164	137977			34.34- 94.34	63.16
5.344	5.342 (0.977)		98	82512			8.30- 68.30	37.77
42 1,2,4-Trichlorobenzene							CAS #: 120-82-1	
5.429	5.427 (0.993)		180	242642	75.0000	73.4	80.00- 120.00	100.00
5.429	5.427 (0.993)		182	228980			69.17- 129.17	94.37
5.428	5.427 (0.993)		145	70884			0.41- 60.41	29.21
* 43 Naphthalene-d8							CAS #: 1146-65-2	
5.468	5.463 (1.000)		136	323484	40.0000		80.00- 120.00	100.00
5.468	5.463 (1.000)		68	23757			0.00- 37.51	7.34
44 Naphthalene							CAS #: 91-20-3	
5.487	5.486 (1.003)		128	646281	75.0000	72.7	80.00- 120.00	100.00
5.486	5.485 (1.003)		129	71439			0.00- 40.78	11.05
5.486	5.486 (1.003)		127	85876			0.00- 42.17	13.29
45 4-Chloroaniline							CAS #: 106-47-8	
5.554	5.552 (1.016)		127	267932	75.0000	73.5	80.00- 120.00	100.00
5.554	5.552 (1.016)		129	86689			2.29- 62.29	32.35
5.553	5.551 (1.015)		65	99345			8.57- 68.57	37.08
48 Hexachlorobutadiene							CAS #: 87-68-3	
5.654	5.654 (1.034)		225	170613	75.0000	72.3	80.00- 120.00	100.00
5.654	5.654 (1.034)		223	107082			31.81- 91.81	62.76
5.655	5.654 (1.034)		227	111575			34.78- 94.78	65.40
51 4-Chloro-3-methylphenol							CAS #: 59-50-7	
6.010	6.009 (1.099)		107	231743	75.0000	71.2	80.00- 120.00	100.00
6.010	6.009 (1.099)		144	53894			0.00- 53.54	23.26
6.010	6.009 (1.099)		142	170884			43.91- 103.91	73.74
53 2-Methylnaphthalene							CAS #: 91-57-6	
6.143	6.141 (1.123)		142	444492	75.0000	72.7	80.00- 120.00	100.00
6.143	6.141 (1.123)		141	376675			55.50- 115.50	84.74
54 1-Methylnaphthalene							CAS #: 90-12-0	
6.248	6.247 (1.143)		142	409064	75.0000	72.2	80.00- 120.00	100.00
6.248	6.247 (1.143)		141	363554			58.78- 118.78	88.87
55 Hexachlorocyclopentadiene							CAS #: 77-47-4	
6.360	6.360 (0.887)		237	171226	75.0000	69.6	80.00- 120.00	100.00
6.360	6.360 (0.887)		235	109748			33.42- 93.42	64.10
6.361	6.360 (0.887)		272	21332			0.00- 41.88	12.46
57 2,4,6-Trichlorophenol							CAS #: 88-06-2	
6.439	6.438 (0.898)		196	165711	75.0000	72.6	80.00- 120.00	100.00
6.439	6.438 (0.898)		198	159052			67.54- 127.54	95.98
6.440	6.438 (0.898)		200	51588			1.18- 61.18	31.13
58 2,4,5-Trichlorophenol							CAS #: 95-95-4	
6.474	6.472 (0.903)		196	185946	75.0000	74.2	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
58 2,4,5-Trichlorophenol (continued)								
6.474	6.472	(0.903)	198	176385			64.33- 124.33	94.86
6.473	6.472	(0.903)	97	103496			27.55- 87.55	55.66
$ 59 2-Fluorobiphenyl (SURR)						CAS #: 321-60-8		
6.517	6.514	(0.909)	172	567350	75.0000	73.7	80.00- 120.00	100.00
6.517	6.514	(0.909)	171	196147			4.90- 64.90	34.57
62 2-Chloronaphthalene						CAS #: 91-58-7		
6.613	6.610	(0.922)	162	463334	75.0000	72.1	80.00- 120.00	100.00
6.613	6.610	(0.922)	164	153352			1.75- 61.75	33.10
6.613	6.610	(0.922)	127	182205			8.71- 68.71	39.32
63 2-Nitroaniline						CAS #: 88-74-4		
6.742	6.741	(0.940)	65	164545	75.0000	73.2	80.00- 120.00	100.00
6.742	6.741	(0.940)	92	108132			35.13- 95.13	65.72
6.742	6.741	(0.940)	138	149203			59.53- 119.53	90.68
65 Dimethylphthalate						CAS #: 131-11-3		
6.952	6.950	(0.969)	163	540748	75.0000	73.4	80.00- 120.00	100.00
6.952	6.950	(0.969)	194	33678			0.00- 35.76	6.23
6.952	6.949	(0.969)	164	55801			0.00- 39.66	10.32
68 Acenaphthylene						CAS #: 208-96-8		
7.022	7.020	(0.979)	152	740696	75.0000	71.8	80.00- 120.00	100.00
7.022	7.020	(0.979)	151	146741			0.00- 50.20	19.81
7.021	7.020	(0.979)	153	98503			0.00- 43.02	13.30
67 2,6-Dinitrotoluene						CAS #: 606-20-2		
7.018	7.015	(0.979)	165	130233	75.0000	72.7	80.00- 120.00	100.00
7.017	7.015	(0.979)	89	88104			39.45- 99.45	67.65
7.018	7.016	(0.979)	63	133578			74.66- 134.66	102.57
69 3-Nitroaniline						CAS #: 99-09-2		
7.149	7.146	(0.997)	138	117454	75.0000	71.6	80.00- 120.00	100.00
7.149	7.146	(0.997)	108	18802			0.00- 42.35	16.01
7.149	7.145	(0.997)	92	157303			104.62- 164.62	133.93
* 70 Acenaphthene-d10						CAS #: 15067-26-2		
7.171	7.167	(1.000)	164	208317	40.0000		80.00- 120.00	100.00
7.171	7.168	(1.000)	162	195324			66.12- 126.12	93.76
7.171	7.167	(1.000)	160	86392			13.21- 73.21	41.47
71 Acenaphthene						CAS #: 83-32-9		
7.203	7.201	(1.004)	154	420824	75.0000	72.0	80.00- 120.00	100.00
7.203	7.200	(1.004)	153	447763			77.18- 137.18	106.40
7.203	7.200	(1.004)	152	212204			21.21- 81.21	50.43
72 2,4-Dinitrophenol						CAS #: 51-28-5		
7.246	7.243	(1.010)	184	77165	75.0000	69.1	80.00- 120.00	100.00
7.245	7.242	(1.010)	63	59972			48.18- 108.18	77.72
7.245	7.242	(1.010)	154	49584			33.05- 93.05	64.26

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
74 4-Nitrophenol						CAS #: 100-02-7		
7.308	7.303 (1.019)		109	108540	75.0000	73.8	80.00- 120.00	100.00
7.308	7.303 (1.019)		139	99732			61.80- 121.80	91.89
7.307	7.303 (1.019)		65	122148			80.41- 140.41	112.54
75 Dibenzofuran						CAS #: 132-64-9		
7.356	7.355 (1.026)		168	646335	75.0000	72.0	80.00- 120.00	100.00
7.356	7.355 (1.026)		139	264228			10.69- 70.69	40.88
76 2,4-Dinitrotoluene						CAS #: 121-14-2		
7.396	7.392 (1.031)		165	159742	75.0000	71.8	80.00- 120.00	100.00
7.396	7.392 (1.031)		63	83787			23.55- 83.55	52.45
7.396	7.392 (1.031)		89	132417			51.82- 111.82	82.89
80 Diethylphthalate						CAS #: 84-66-2		
7.643	7.640 (1.066)		149	536823	75.0000	71.4	80.00- 120.00	100.00
7.643	7.640 (1.066)		177	116162			0.00- 51.79	21.64
7.643	7.640 (1.066)		150	65240			0.00- 42.28	12.15
81 Fluorene						CAS #: 86-73-7		
7.693	7.690 (1.073)		166	583978	75.0000	71.1	80.00- 120.00	100.00
7.693	7.690 (1.073)		165	537143			61.04- 121.04	91.98
7.693	7.690 (1.073)		167	78701			0.00- 43.06	13.48
82 4-Chlorophenyl-phenylether						CAS #: 7005-72-3		
7.692	7.690 (1.073)		204	304737	75.0000	70.1	80.00- 120.00	100.00
7.692	7.690 (1.073)		206	101691			2.85- 62.85	33.37
7.691	7.690 (1.073)		141	181782			29.43- 89.43	59.65
84 4-Nitroaniline						CAS #: 100-01-6		
7.755	7.750 (1.081)		138	109875	75.0000	73.5	80.00- 120.00	100.00
7.755	7.749 (1.081)		92	65406			30.30- 90.30	59.53
7.755	7.749 (1.081)		108	126783			85.44- 145.44	115.39
85 4,6-Dinitro-2-methylphenol						CAS #: 534-52-1		
7.796	7.790 (0.906)		198	112950	75.0000	73.8	80.00- 120.00	100.00
7.795	7.789 (0.906)		51	39492			21.07- 81.07	34.96
7.795	7.789 (0.906)		105	50421			14.43- 74.43	44.64
86 N-Nitrosodiphenylamine						CAS #: 86-30-6		
7.818	7.814 (0.909)		169	350398	75.0000	73.4	80.00- 120.00	100.00
7.818	7.815 (0.909)		168	246628			41.33- 101.33	70.39
7.818	7.815 (0.909)		167	120202			5.93- 65.93	34.30
87 1,2-Diphenylhydrazine						CAS #: 122-66-7		
7.847	7.845 (1.094)		77	594395	75.0000	65.3	80.00- 120.00	100.00
7.847	7.845 (1.094)		105	84666			0.00- 44.08	14.24
7.848	7.845 (1.094)		182	141961			0.00- 53.69	23.88
$ 88 2,4,6-Tribromophenol (SURR)						CAS #: 118-79-6		
7.949	7.946 (1.109)		330	204996	150.000	139	80.00- 120.00	100.00
7.949	7.946 (1.109)		332	195786			65.21- 125.21	95.51
7.948	7.945 (1.108)		141	80641			10.78- 70.78	39.34

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
93 4-Bromophenylphenylether						CAS #: 101-55-3		
8.166	8.163	(0.949)	248	172878	75.0000	72.6	80.00- 120.00	100.00
8.166	8.163	(0.949)	250	168075			66.63- 126.63	97.22
8.165	8.162	(0.949)	141	132634			49.24- 109.24	76.72
94 Hexachlorobenzene						CAS #: 118-74-1		
8.310	8.307	(0.966)	284	197448	75.0000	73.6	80.00- 120.00	100.00
8.309	8.307	(0.966)	142	74318			10.52- 70.52	37.64
8.310	8.307	(0.966)	249	61792			1.60- 61.60	31.30
96 Pentachlorophenol						CAS #: 87-86-5		
8.482	8.480	(0.986)	266	125967	75.0000	71.8	80.00- 120.00	100.00
8.482	8.481	(0.986)	264	79573			33.54- 93.54	63.17
8.482	8.481	(0.986)	268	81060			34.39- 94.39	64.35
* 100 Phenanthrene-d10						CAS #: 1517-22-2		
8.605	8.604	(1.000)	188	359391	40.0000		80.00- 120.00	100.00
8.604	8.604	(1.000)	94	38085			0.00- 40.39	10.60
8.604	8.603	(1.000)	80	41198			0.00- 41.55	11.46
101 Phenanthrene						CAS #: 85-01-8		
8.628	8.626	(1.003)	178	758944	75.0000	74.2	80.00- 120.00	100.00
8.628	8.626	(1.003)	179	116636			0.00- 45.20	15.37
8.628	8.626	(1.003)	176	145317			0.00- 48.69	19.15
103 Anthracene						CAS #: 120-12-7		
8.672	8.670	(1.008)	178	678656	75.0000	73.9	80.00- 120.00	100.00
8.671	8.670	(1.008)	179	102962			0.00- 45.53	15.17
8.672	8.670	(1.008)	176	125760			0.00- 49.11	18.53
104 Carbazole						CAS #: 86-74-8		
8.832	8.830	(1.026)	167	673770	75.0000	75.0	80.00- 120.00	100.00
8.832	8.830	(1.026)	139	90803			0.00- 43.72	13.48
8.831	8.830	(1.026)	83	63655			0.00- 39.70	9.45
105 Di-n-butylphthalate						CAS #: 84-74-2		
9.229	9.227	(1.073)	149	929069	75.0000	74.9	80.00- 120.00	100.00
9.229	9.227	(1.073)	150	85012			0.00- 39.16	9.15
9.229	9.227	(1.073)	104	58964			0.00- 36.36	6.35
109 Fluoranthene						CAS #: 206-44-0		
9.800	9.797	(1.139)	202	844353	75.0000	75.2	80.00- 120.00	100.00
9.799	9.796	(1.139)	101	97585			0.00- 41.60	11.56
9.800	9.797	(1.139)	203	146076			0.00- 47.37	17.30
111 Pyrene						CAS #: 129-00-0		
10.018	10.016	(0.893)	202	848115	75.0000	74.4	80.00- 120.00	100.00
10.018	10.016	(0.893)	200	173819			0.00- 50.33	20.49
10.018	10.016	(0.893)	203	149464			0.00- 47.92	17.62
$ 112 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.181	10.179	(0.908)	244	673605	75.0000	73.1	80.00- 120.00	100.00
10.181	10.178	(0.908)	122	70888			0.00- 40.67	10.52

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
$ 112 Terphenyl-d14 (SURR) (continued)								
10.181	10.179	(0.908)	212	51691			0.00- 37.92	7.67
118 Butylbenzylphthalate						CAS #: 85-68-7		
10.694	10.690	(0.954)	149	425565	75.0000	72.5	80.00- 120.00	100.00
10.693	10.691	(0.953)	91	323905			45.72- 105.72	76.11
10.694	10.692	(0.954)	206	94735			0.00- 51.71	22.26
120 Benzo[a]anthracene						CAS #: 56-55-3		
11.197	11.194	(0.998)	228	856824	75.0000	72.8	80.00- 120.00	100.00
11.197	11.194	(0.998)	229	170029			0.00- 49.13	19.84
11.197	11.194	(0.998)	226	229457			0.00- 57.06	26.78
* 121 Chrysene-d12						CAS #: 1719-03-5		
11.215	11.211	(1.000)	240	421161	40.0000		80.00- 120.00	100.00
11.214	11.210	(1.000)	120	43199			0.00- 40.02	10.26
11.215	11.210	(1.000)	236	105534			0.00- 54.50	25.06
123 Chrysene						CAS #: 218-01-9		
11.241	11.238	(1.002)	228	834852	75.0000	72.4	80.00- 120.00	100.00
11.241	11.238	(1.002)	226	247028			0.00- 59.08	29.59
11.241	11.238	(1.002)	229	166006			0.00- 49.34	19.88
124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.276	11.275	(1.005)	149	592581	75.0000	72.6	80.00- 120.00	100.00
11.277	11.276	(1.005)	167	176720			0.00- 59.84	29.82
11.277	11.276	(1.006)	279	44522			0.00- 37.67	7.51
125 Di-n-octylphthalate						CAS #: 117-84-0		
11.845	11.842	(0.945)	149	1025786	75.0000	67.6	80.00- 120.00	100.00
11.845	11.843	(0.945)	167	15606			0.00- 31.49	1.52
11.844	11.842	(0.945)	43	89099			0.00- 38.92	8.69
127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.201	12.198	(0.974)	252	827508	75.0000	81.8	80.00- 120.00	100.00
12.201	12.198	(0.974)	253	183050			0.00- 52.25	22.12
12.200	12.219	(0.973)	125	78523			0.00- 48.56	9.49
128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.223	12.220	(0.975)	252	831578	75.0000	63.0	80.00- 120.00	100.00
12.223	12.220	(0.975)	253	182676			0.00- 52.11	21.97
12.222	12.219	(0.975)	125	69863			0.00- 46.79	8.40
129 Benzo[a]pyrene						CAS #: 50-32-8		
12.485	12.484	(0.996)	252	759409	75.0000	71.7	80.00- 120.00	100.00
12.485	12.484	(0.996)	253	181288			0.00- 51.58	23.87
12.485	12.484	(0.996)	125	71968			0.00- 39.66	9.48
* 130 Perylene-d12						CAS #: 1520-96-3		
12.533	12.532	(1.000)	264	368725	40.0000		80.00- 120.00	100.00
12.533	12.533	(1.000)	260	82472			0.00- 52.70	22.37
12.533	12.532	(1.000)	265	79224			0.00- 52.11	21.49

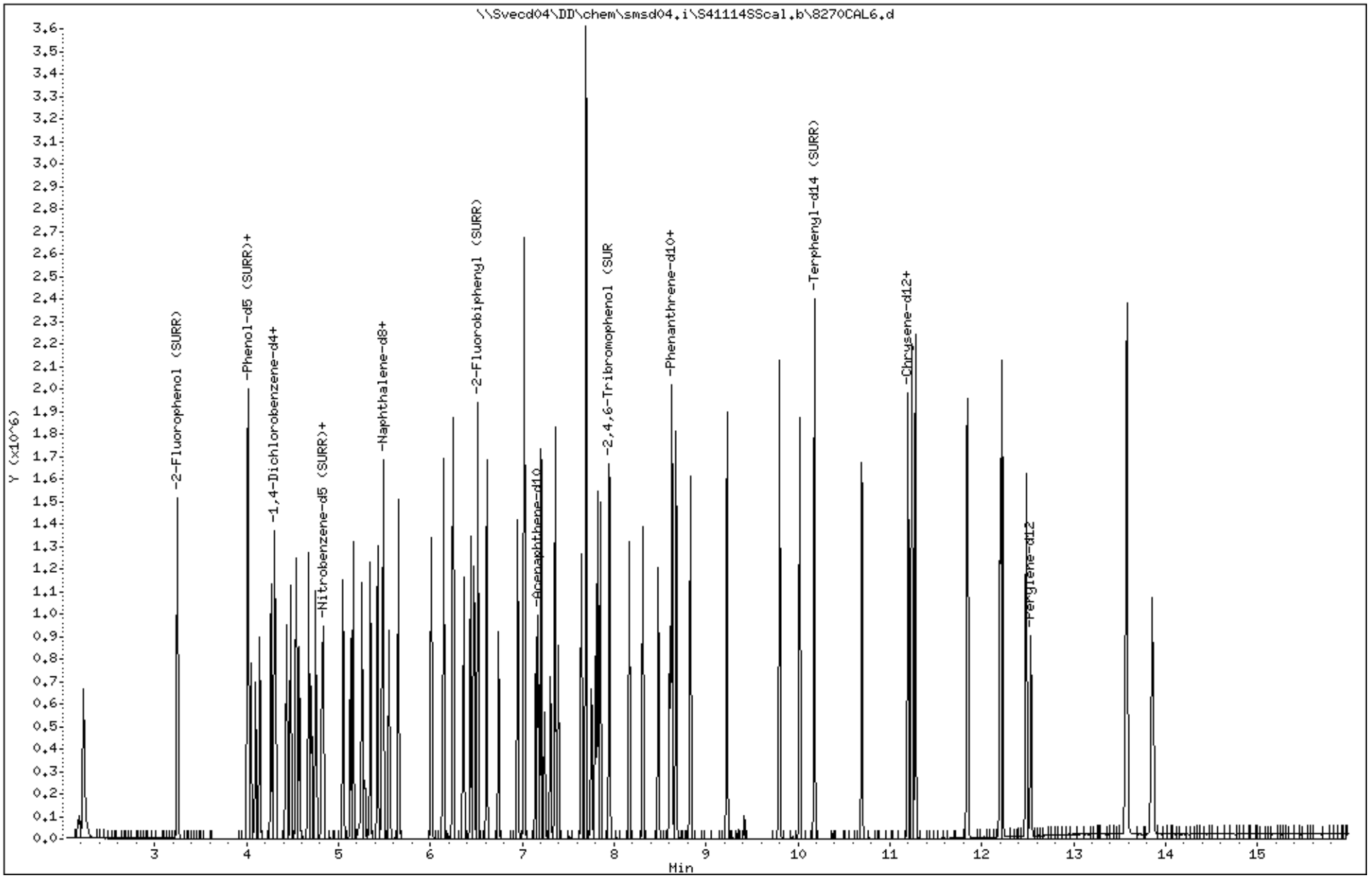
					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
133 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.576	13.569	(1.083)	276	857963	75.0000	74.6	80.00- 120.00	100.00
13.578	13.570	(1.083)	138	194240			0.00- 53.00	22.64
13.576	13.570	(1.083)	277	223603			0.00- 55.19	26.06
134 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.581	13.574	(1.084)	278	730174	75.0000	72.9	80.00- 120.00	100.00
13.580	13.573	(1.084)	139	108963			0.00- 45.33	14.92
13.581	13.574	(1.084)	279	170891			0.00- 53.44	23.40
135 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.860	13.852	(1.106)	276	661351	75.0000	79.7	80.00- 120.00	100.00
13.859	13.852	(1.106)	138	124692			0.00- 48.86	18.85
13.860	13.852	(1.106)	277	153744			0.00- 53.33	23.25

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d
Date : 14-NOV-2012 23:01
Client ID: 8270CAL6
Sample Info: 47764

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

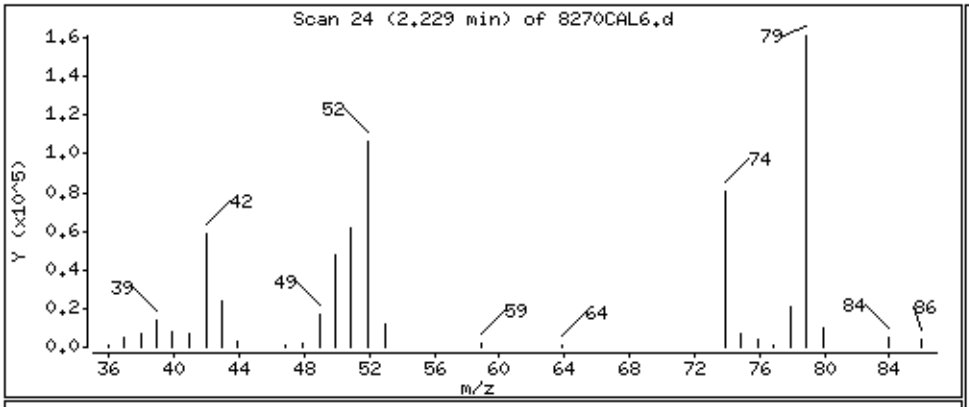
Operator: MJ

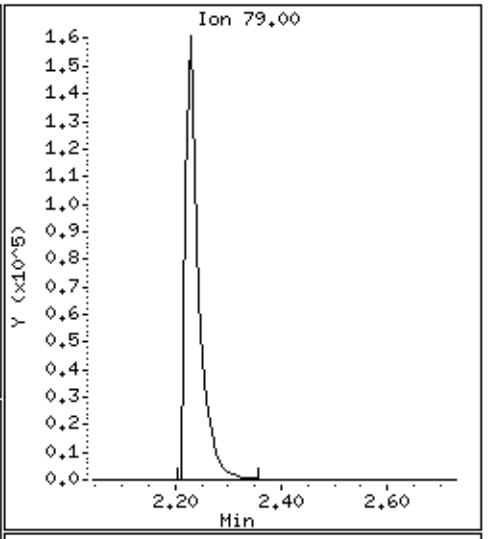
Column phase: HPMS-5

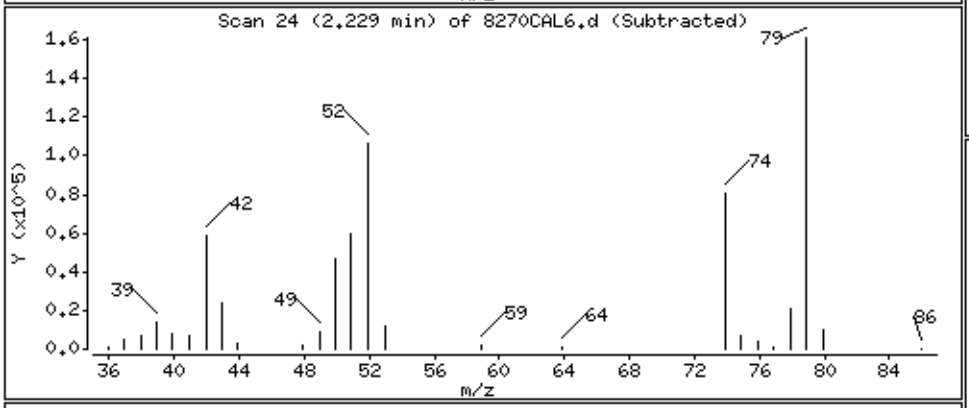
Column diameter: 0.25

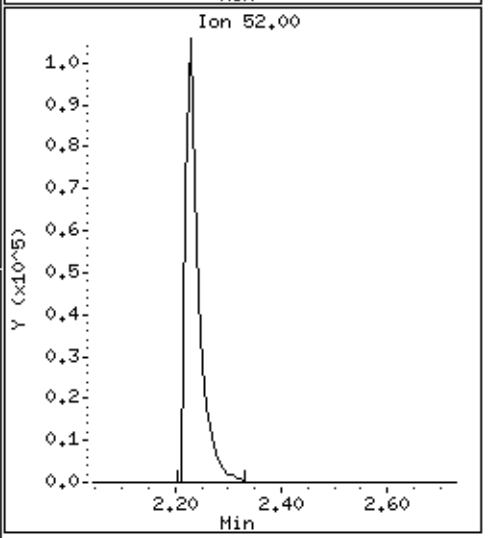
2 Pyridine

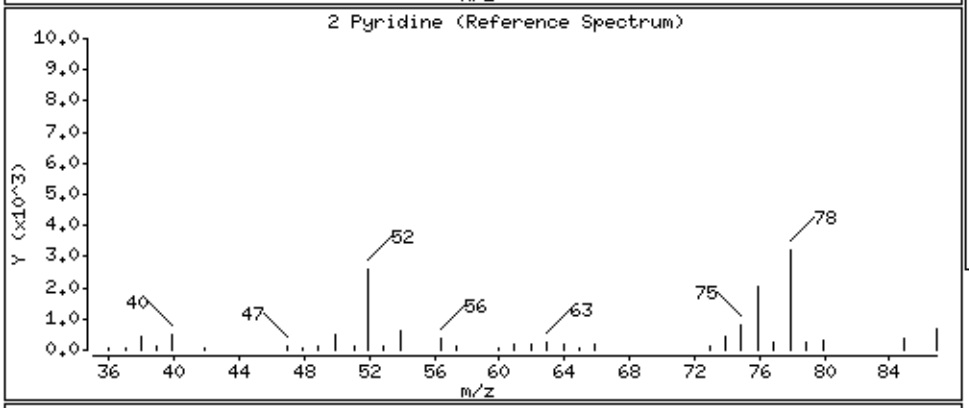
Concentration: 74.7 ug/kg

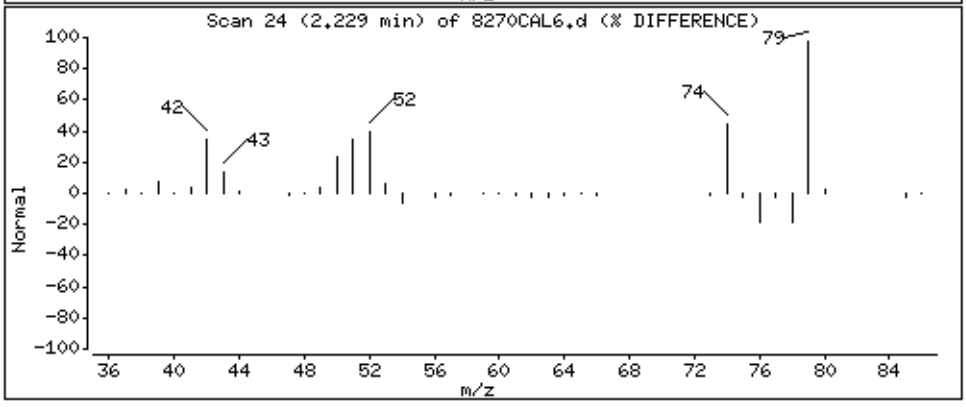












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

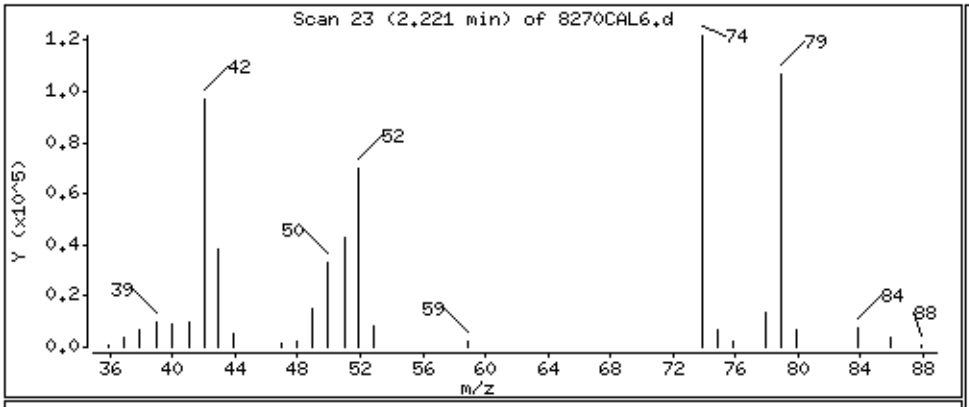
Operator: MJ

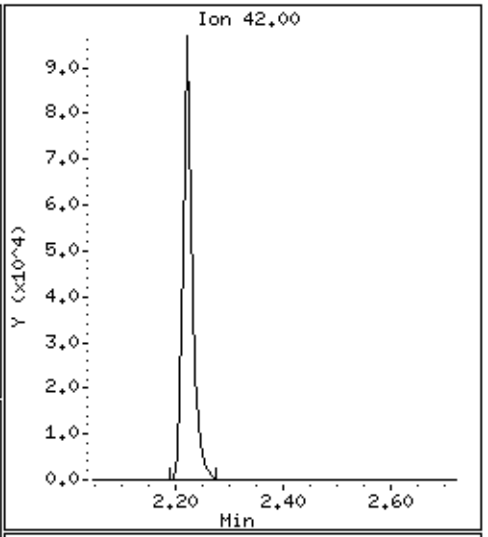
Column phase: HPMS-5

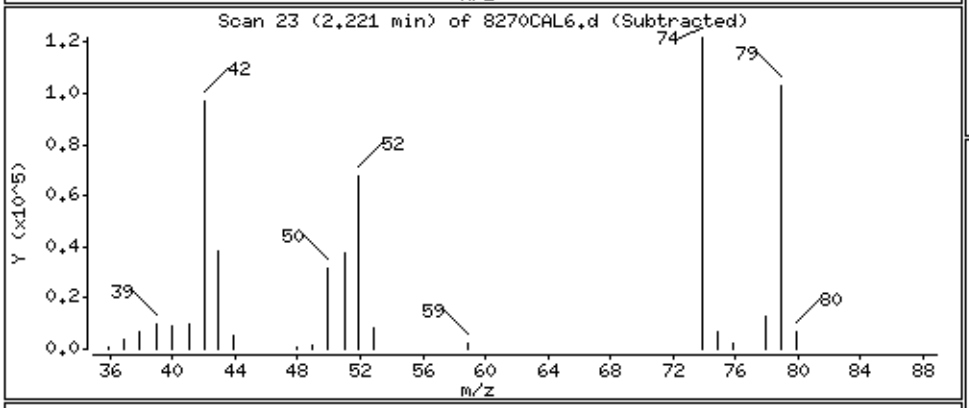
Column diameter: 0.25

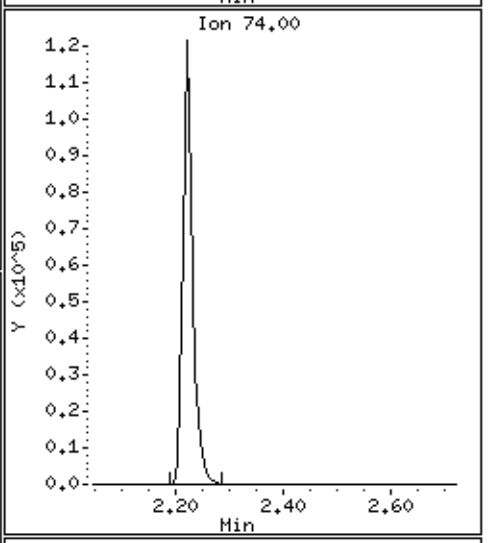
1 N-Nitrosodimethylamine

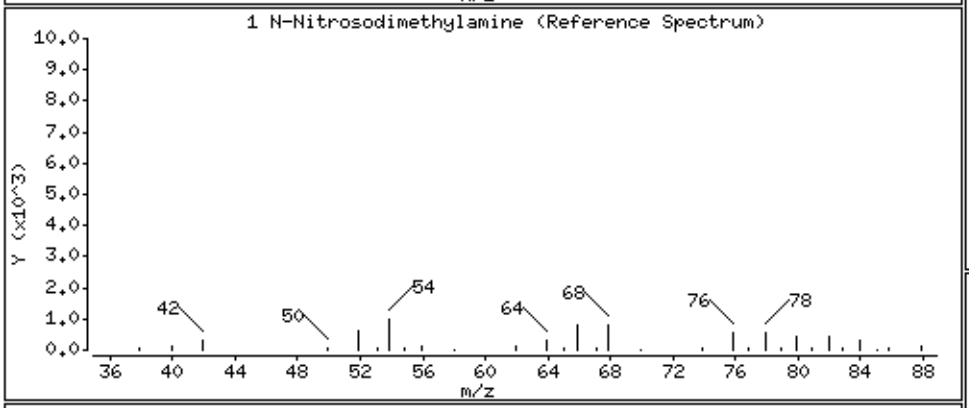
Concentration: 73.5 ug/kg

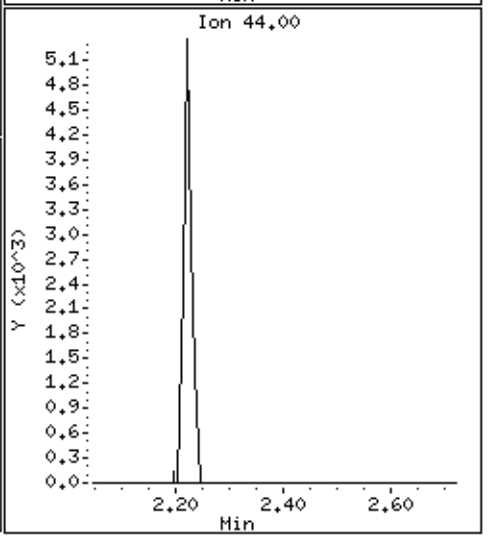


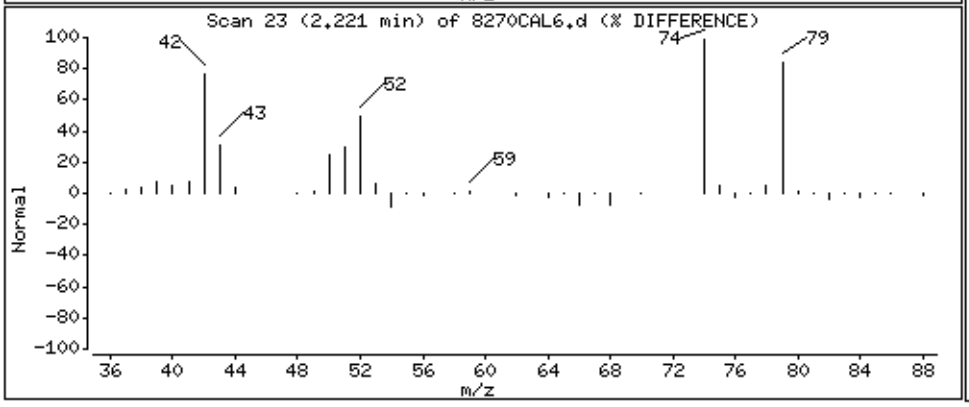












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

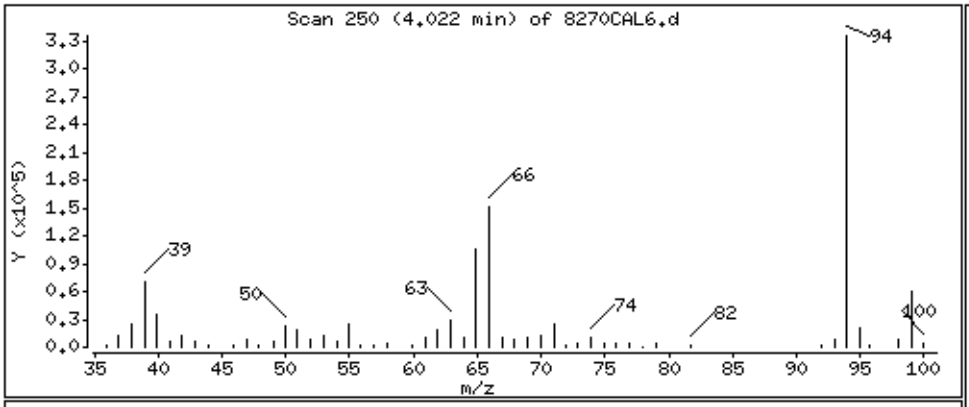
Operator: MJ

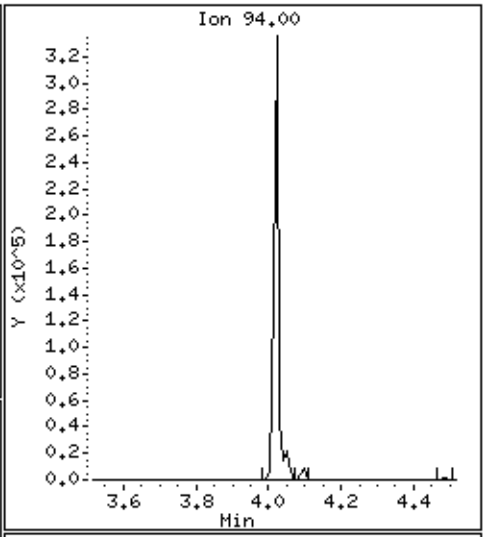
Column phase: HPMS-5

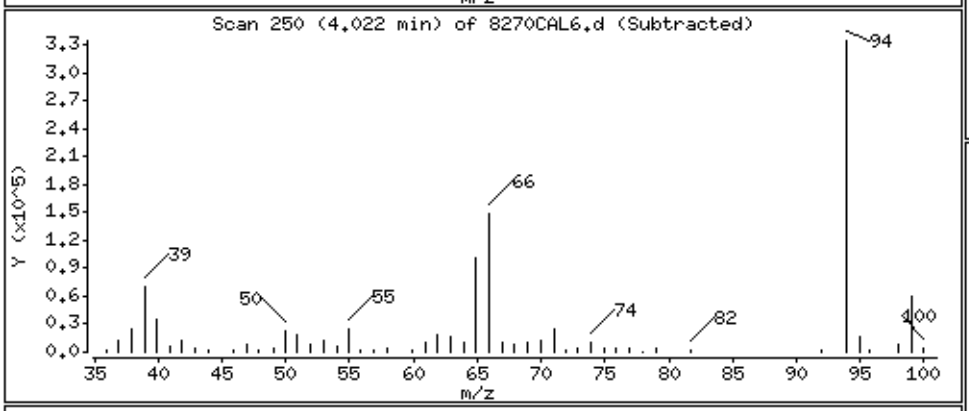
Column diameter: 0.25

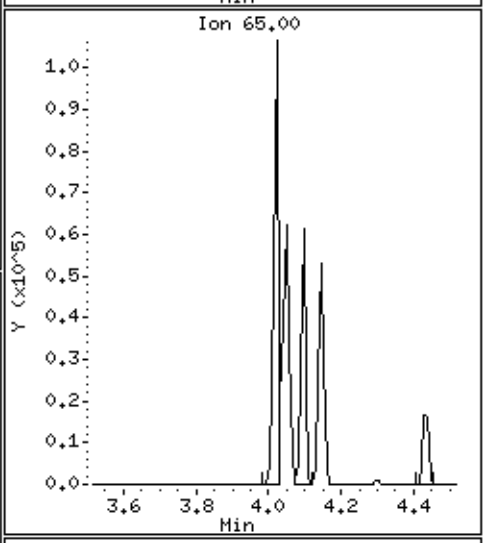
13 Phenol

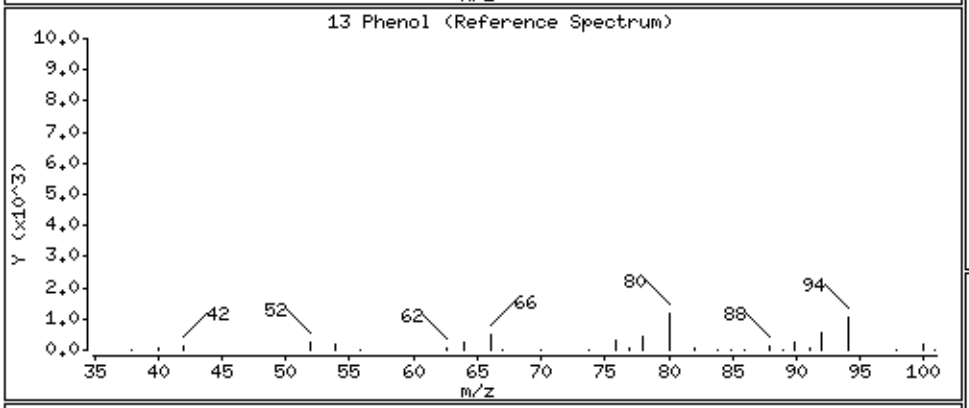
Concentration: 73.5 ug/kg

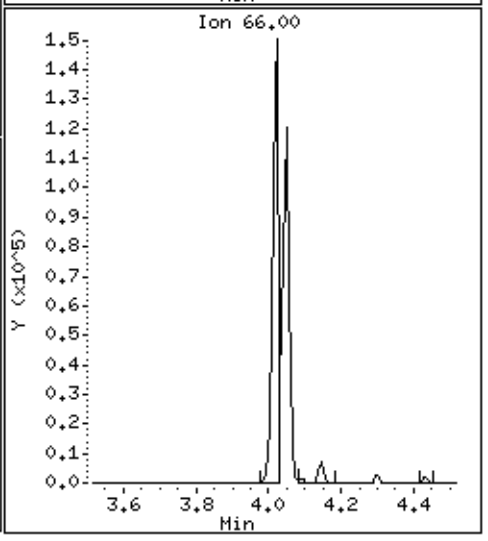


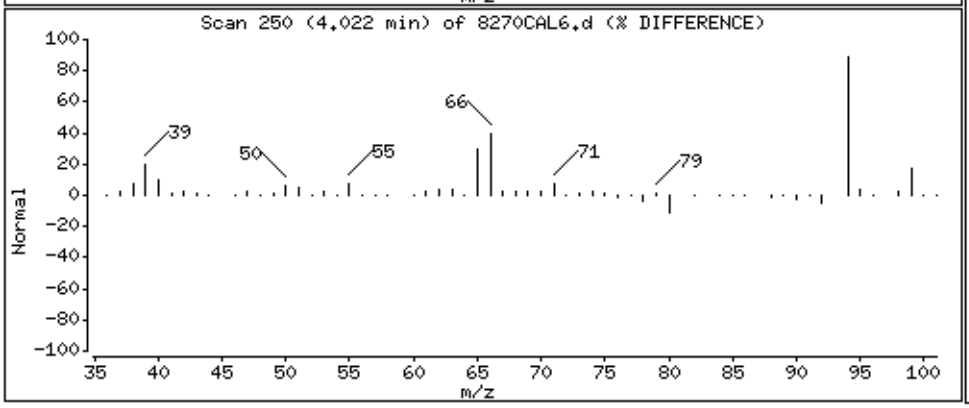












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

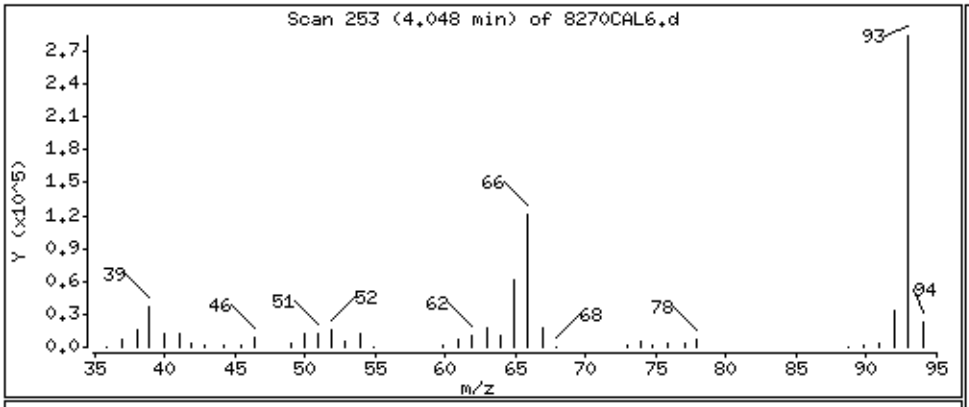
Operator: MJ

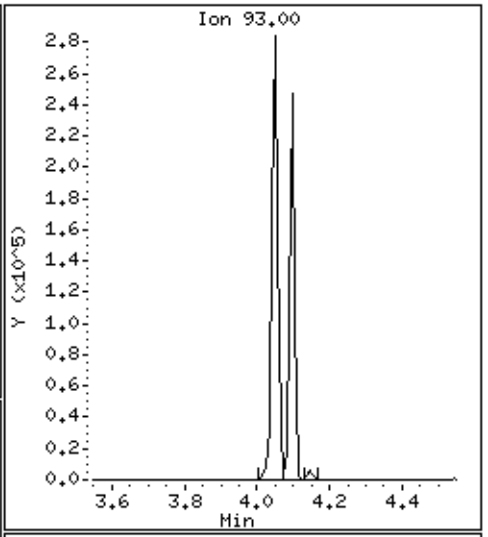
Column phase: HPMS-5

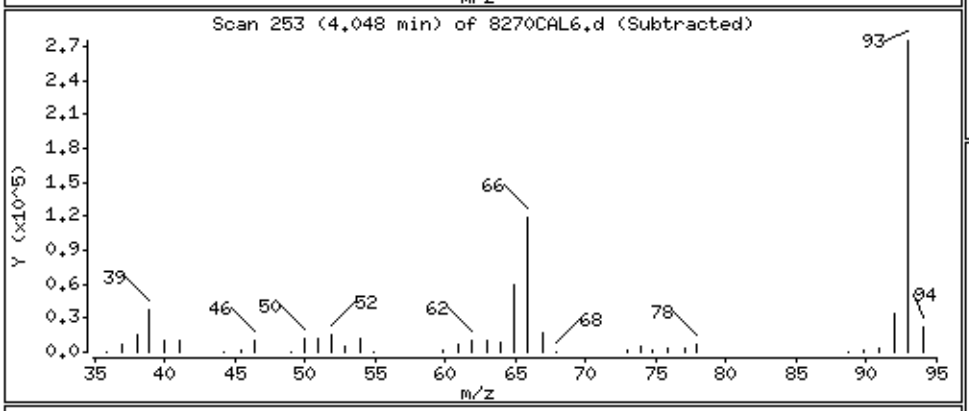
Column diameter: 0.25

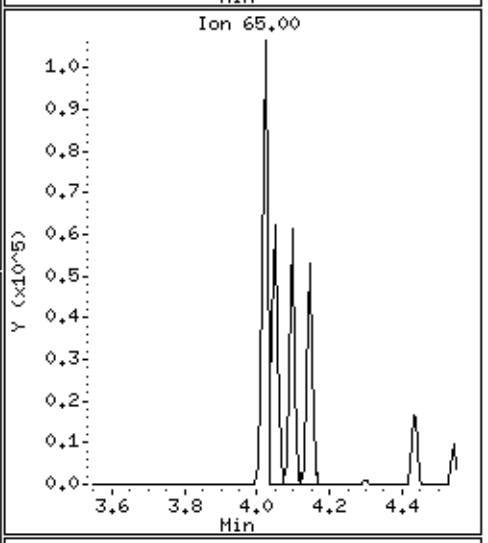
10 Aniline

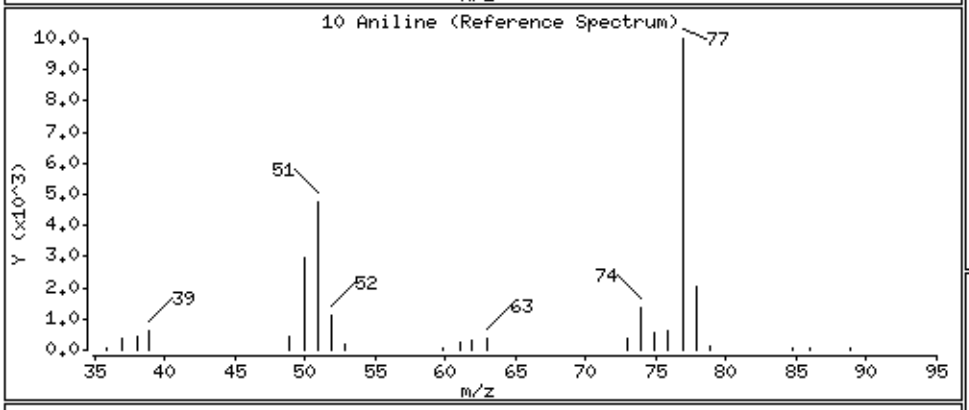
Concentration: 76.0 ug/kg

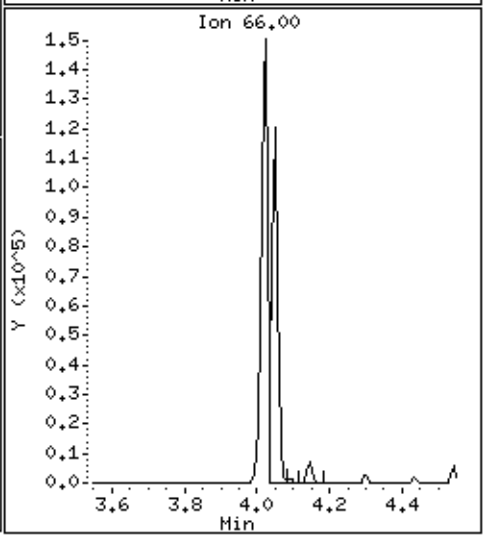


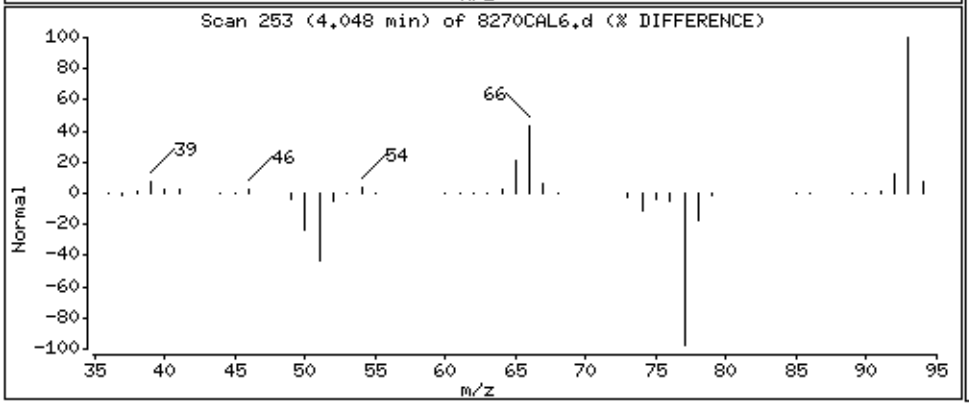












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

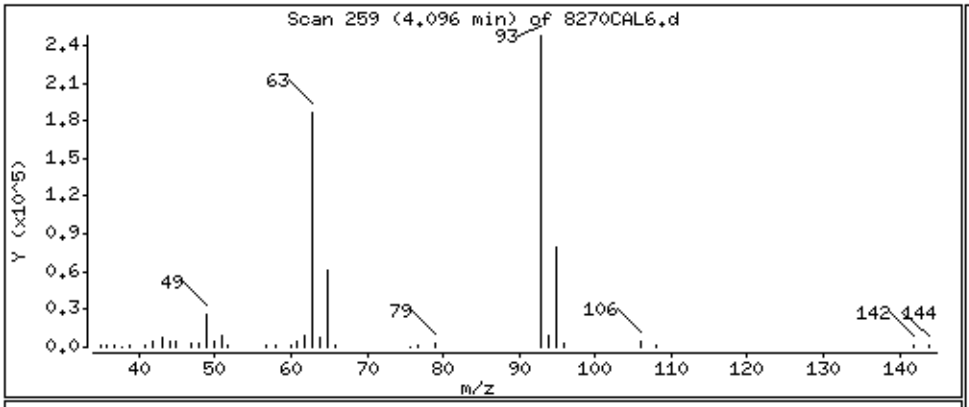
Operator: MJ

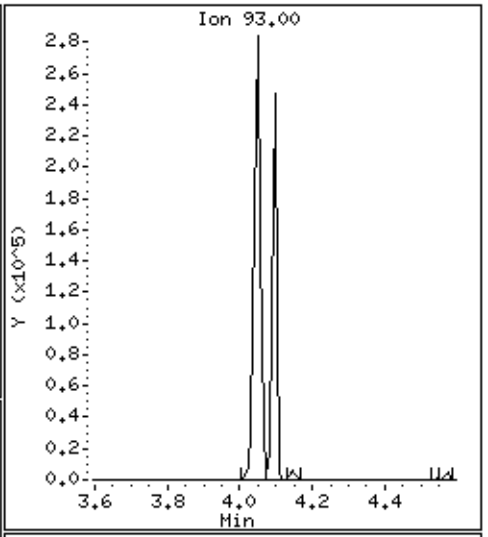
Column phase: HPMS-5

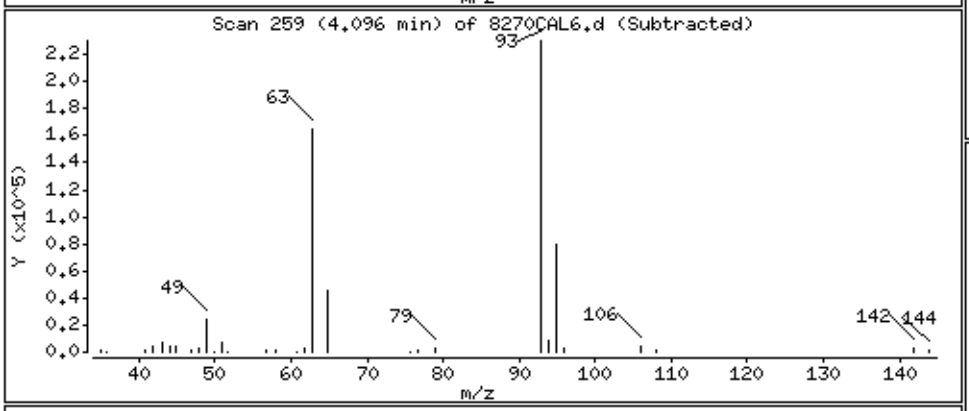
Column diameter: 0.25

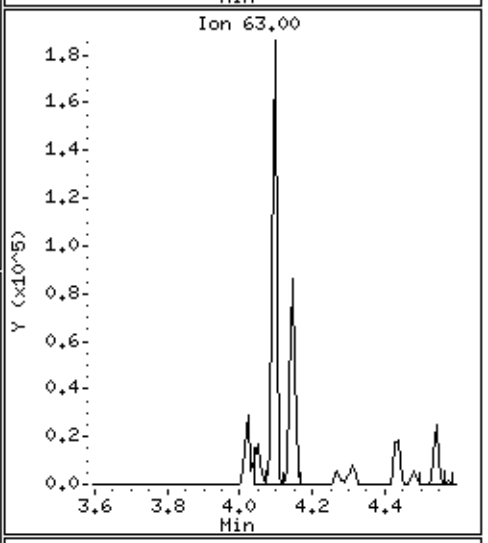
14 Bis(2-Chloroethyl)ether

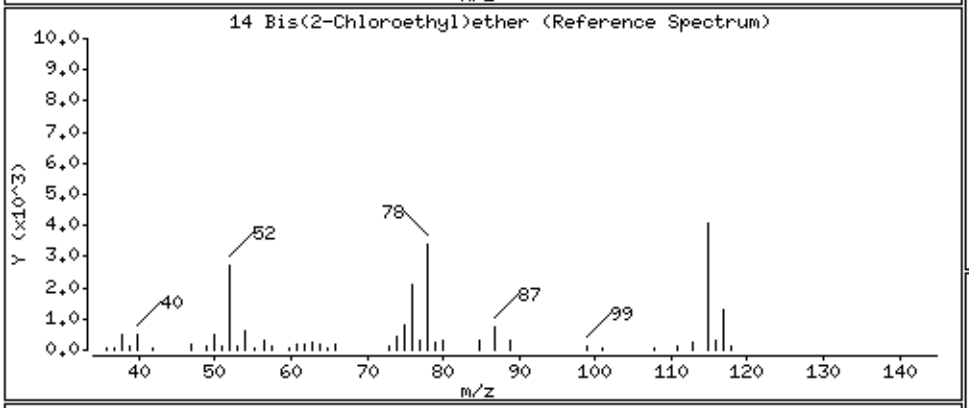
Concentration: 73.5 ug/kg

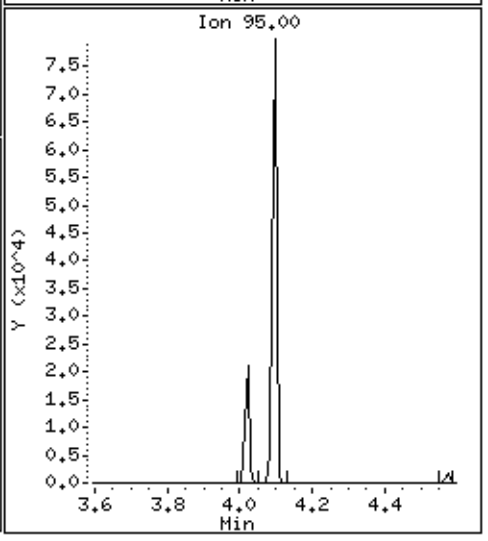


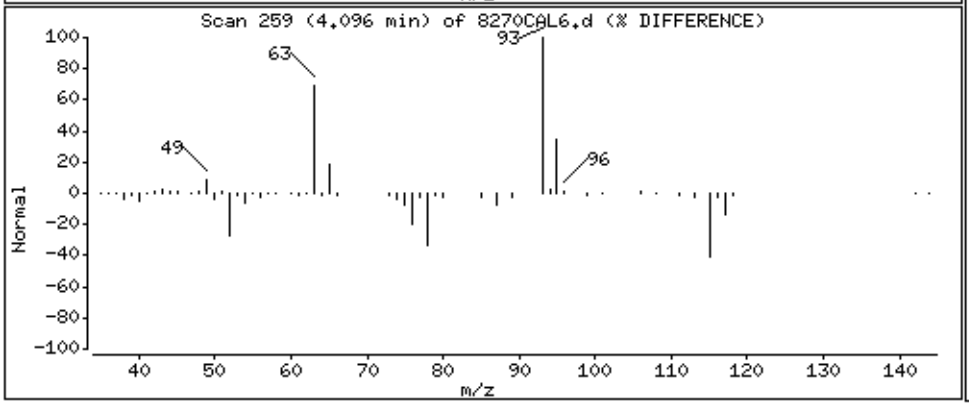












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

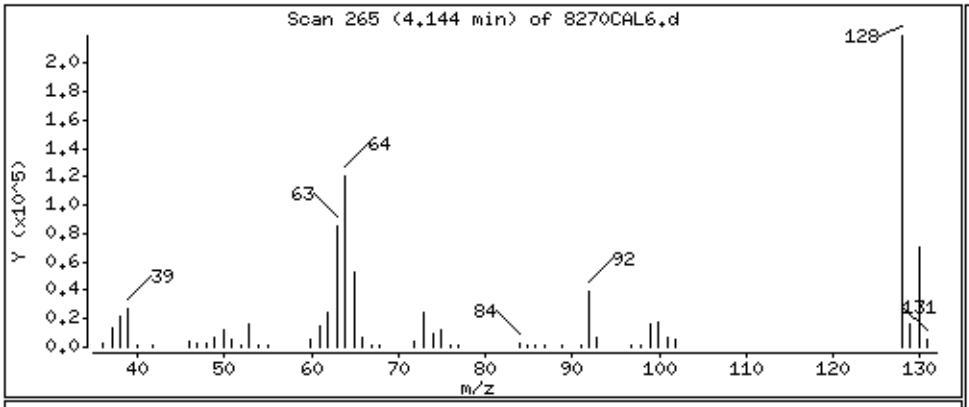
Operator: MJ

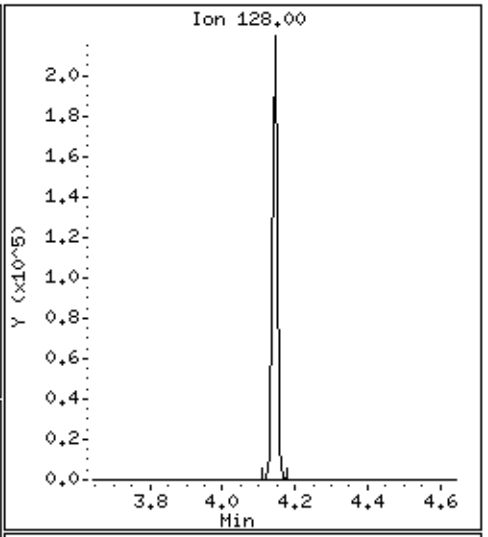
Column phase: HPMS-5

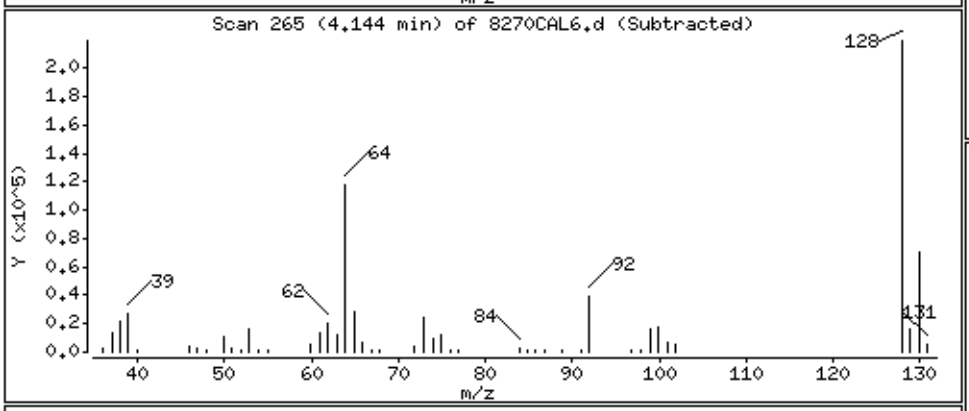
Column diameter: 0.25

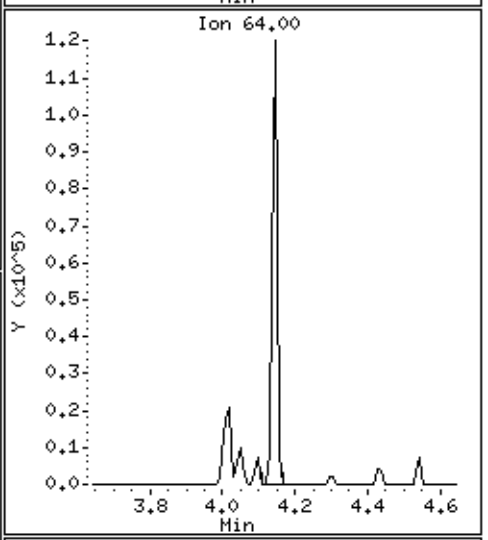
15 2-Chlorophenol

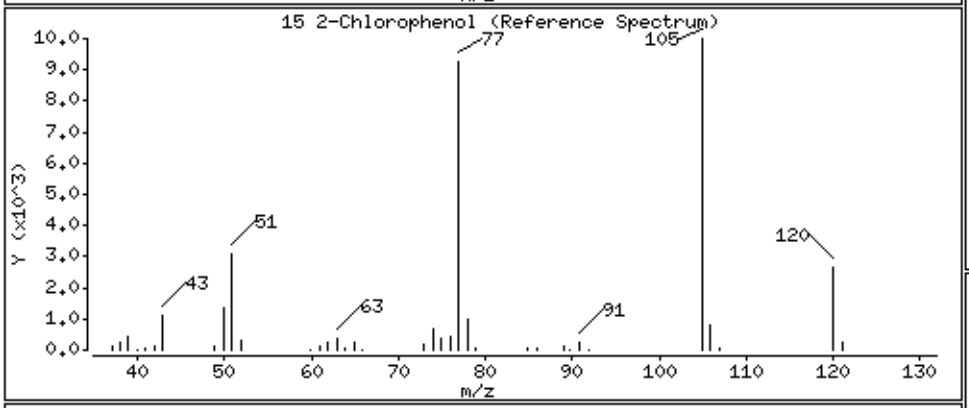
Concentration: 74.4 ug/kg

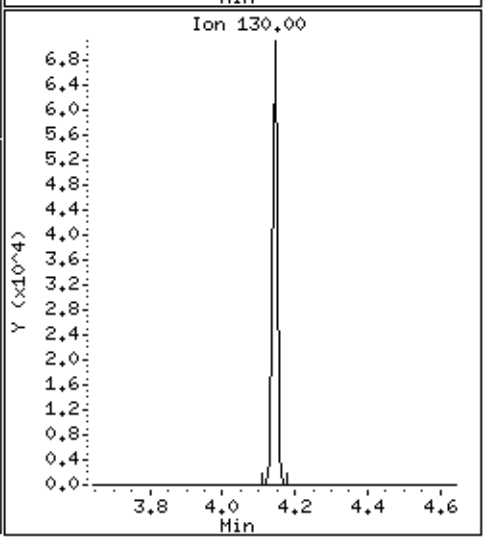


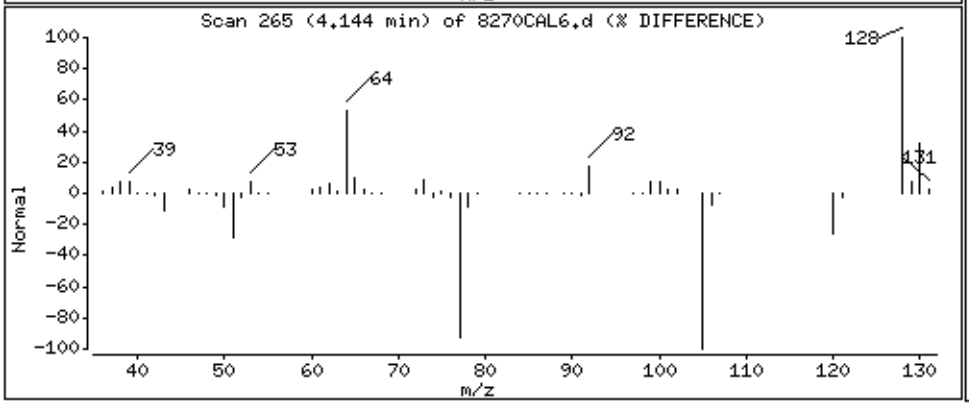












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

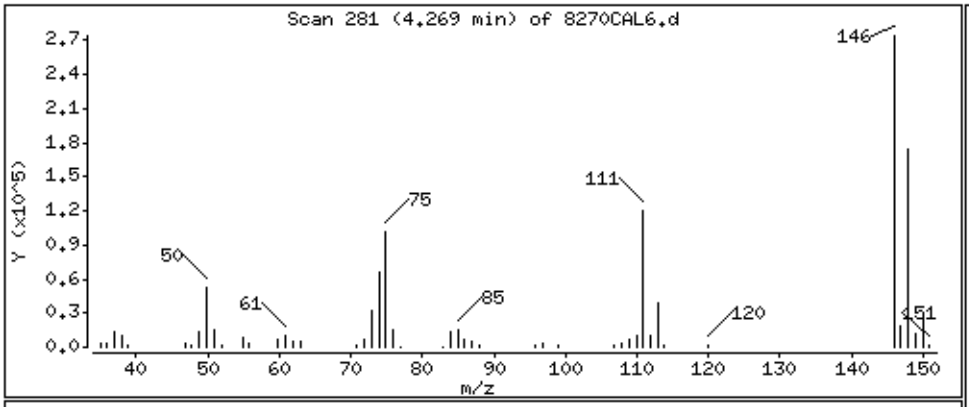
Operator: MJ

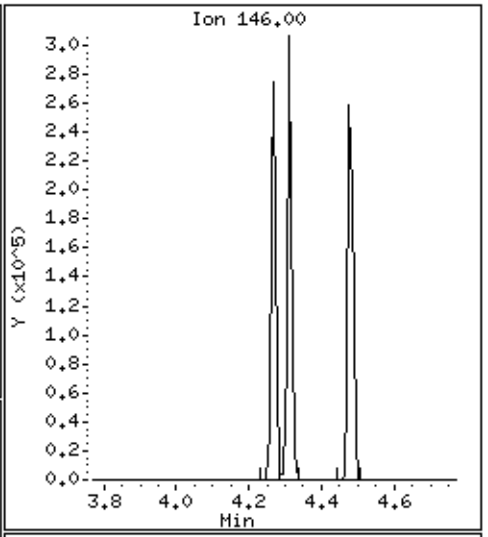
Column phase: HPMS-5

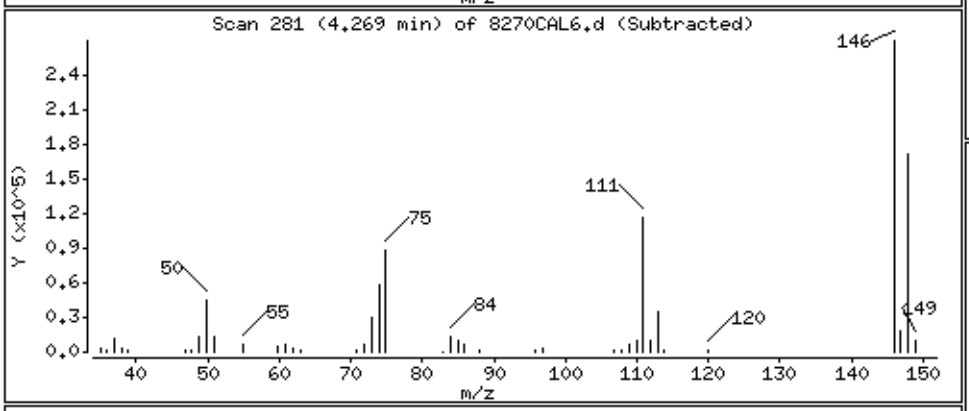
Column diameter: 0.25

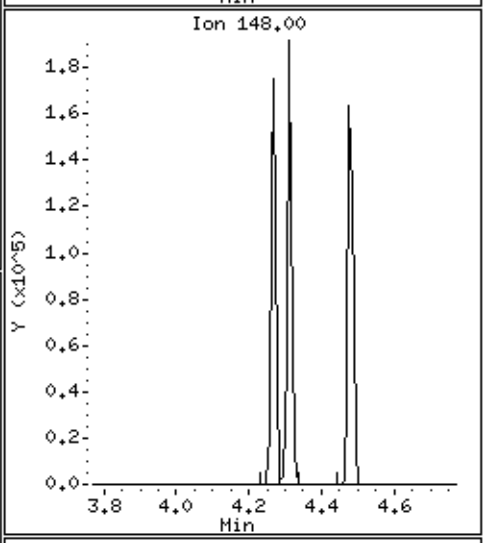
17 1,3-Dichlorobenzene

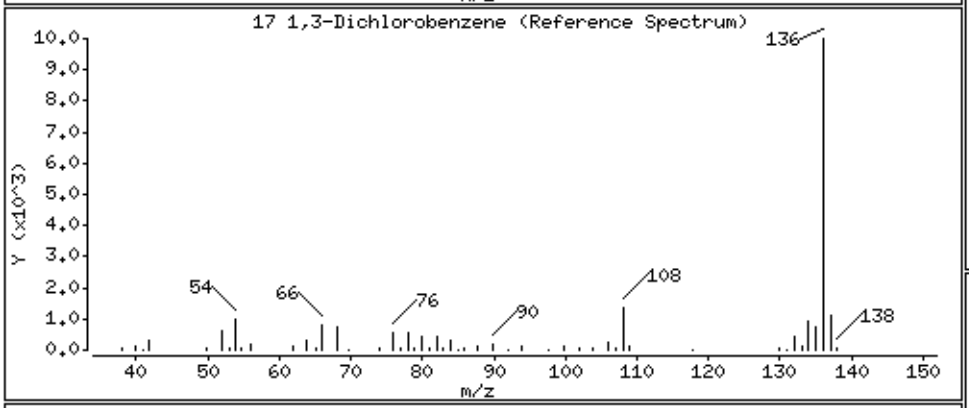
Concentration: 74.5 ug/kg

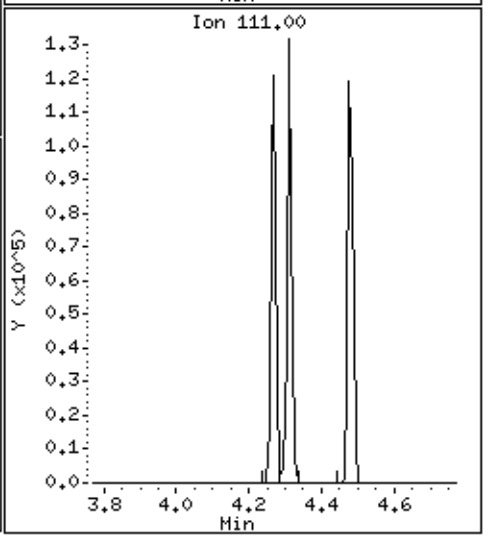


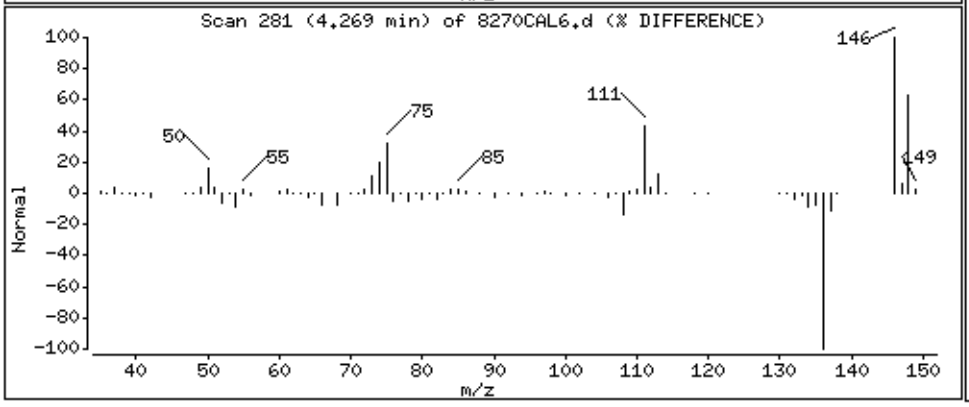












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

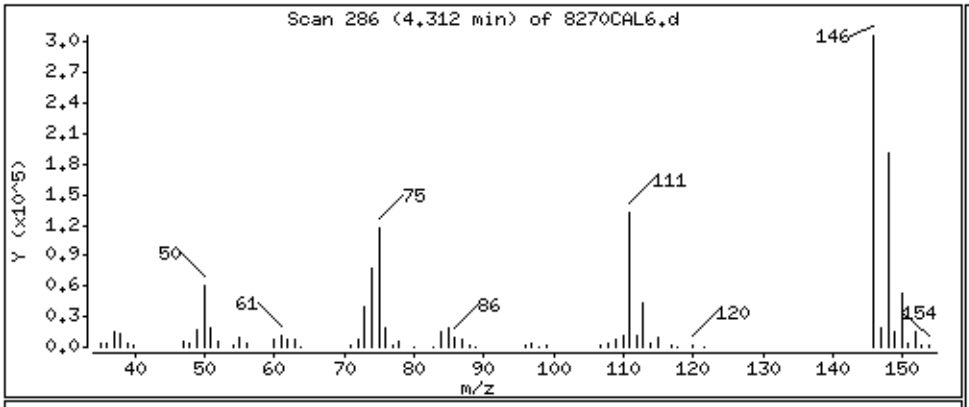
Operator: MJ

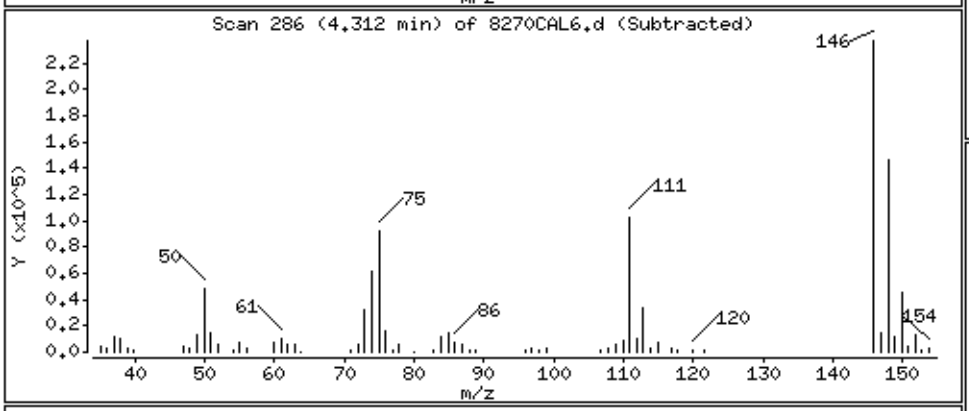
Column phase: HPMS-5

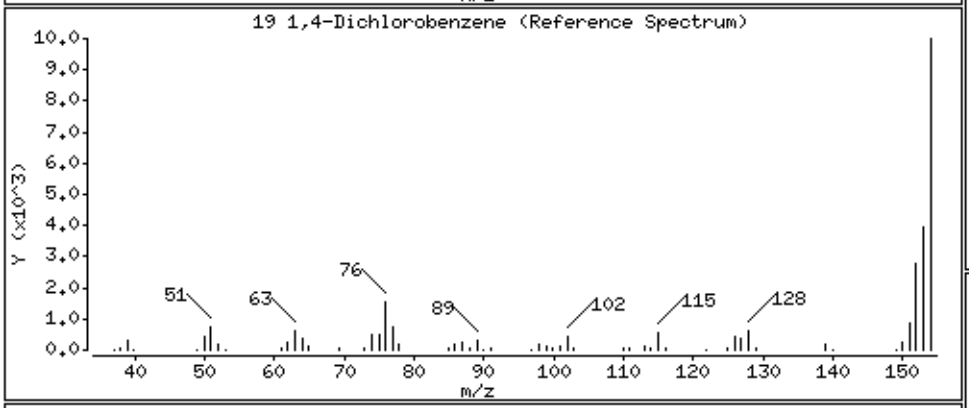
Column diameter: 0.25

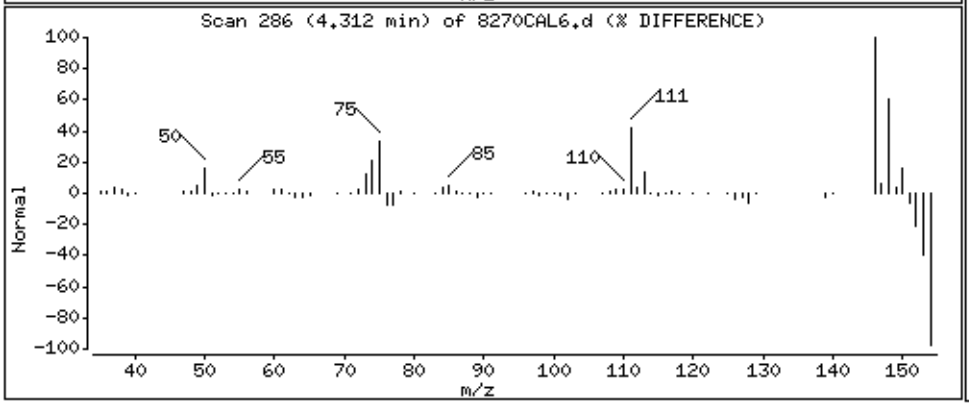
19 1,4-Dichlorobenzene

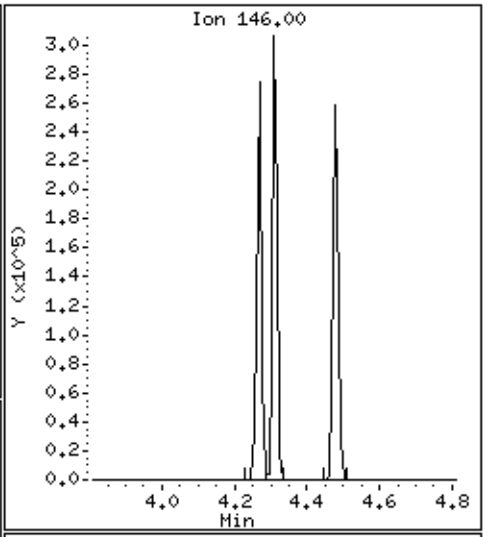
Concentration: 75.2 ug/kg

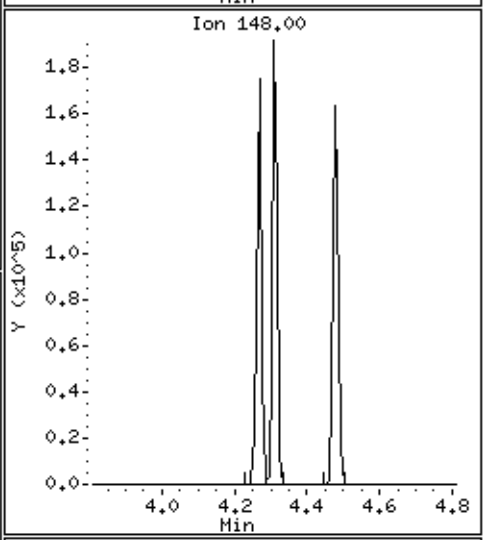


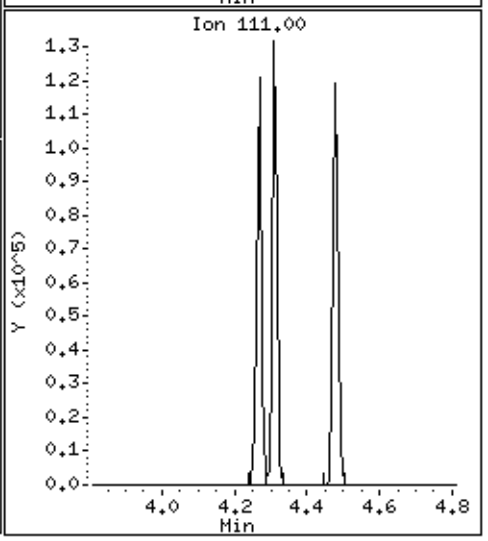












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

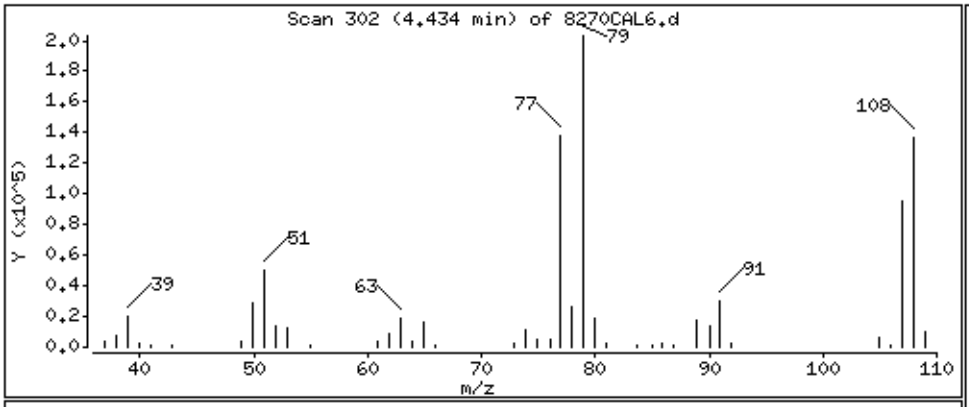
Operator: MJ

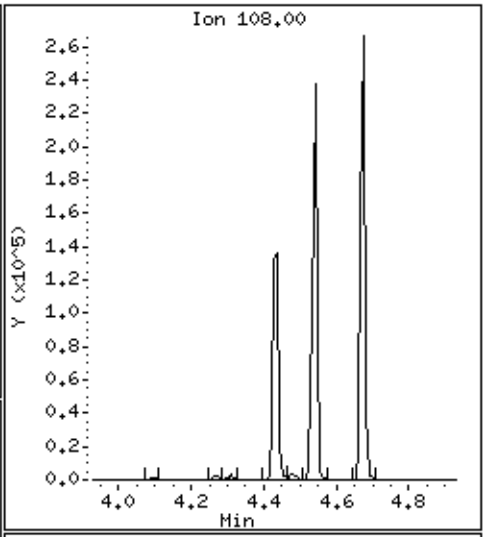
Column phase: HPMS-5

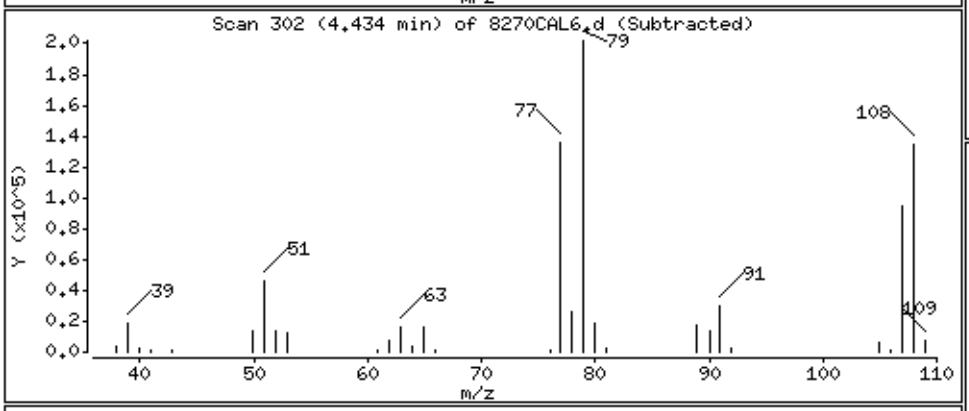
Column diameter: 0.25

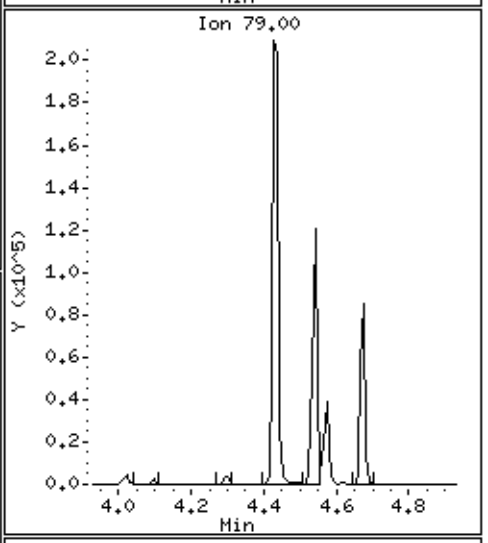
21 Benzyl alcohol

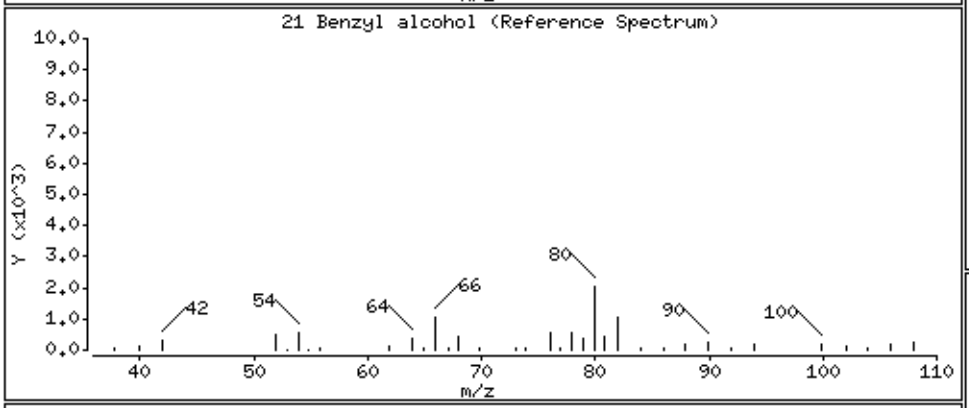
Concentration: 73.6 ug/kg

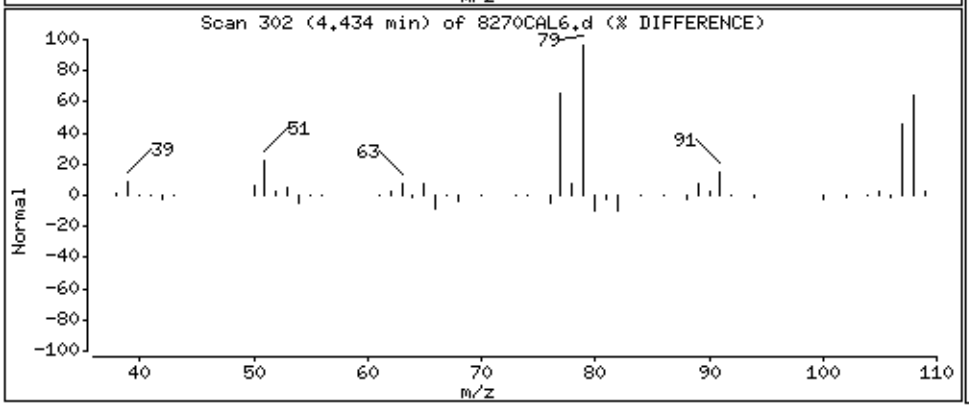


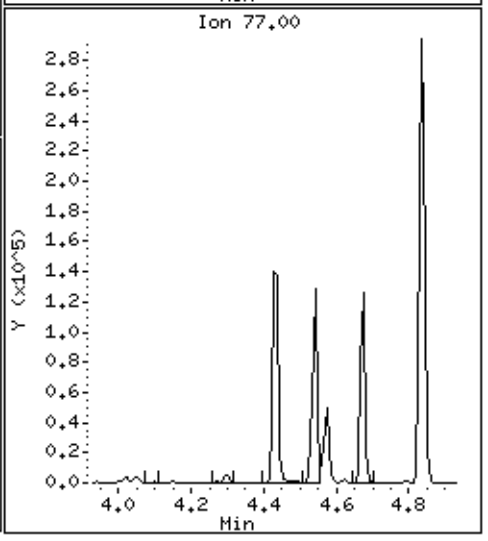












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

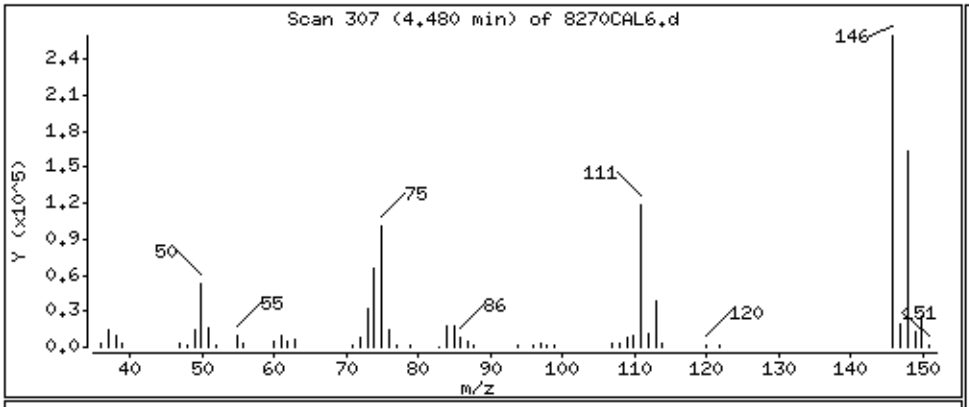
Operator: MJ

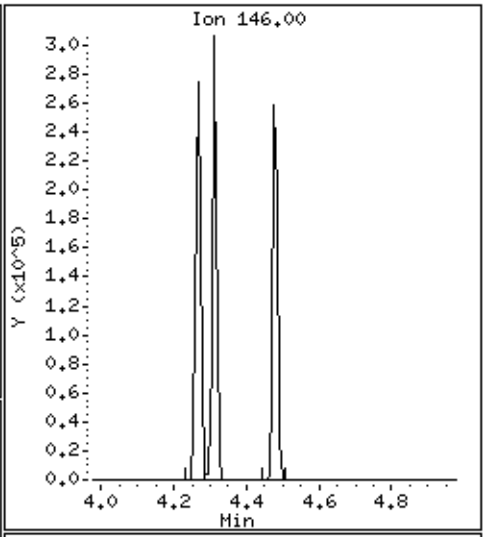
Column phase: HPMS-5

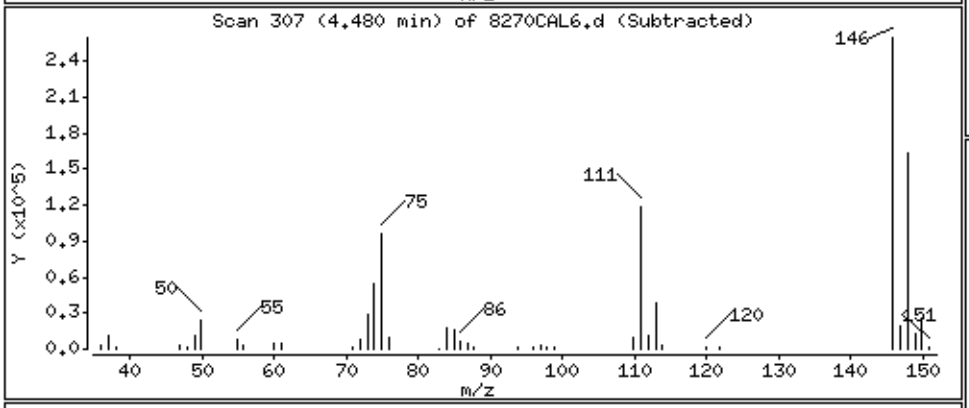
Column diameter: 0.25

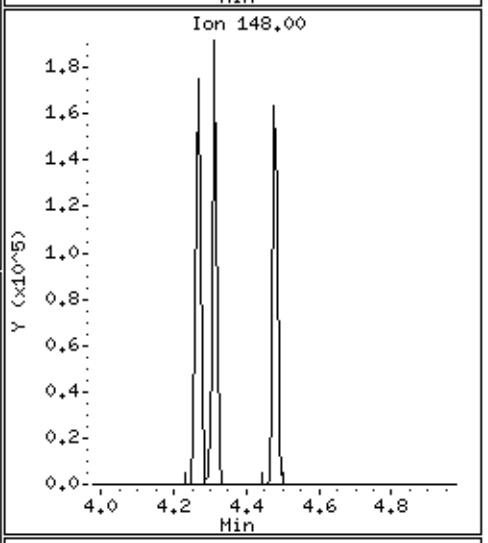
20 1,2-Dichlorobenzene

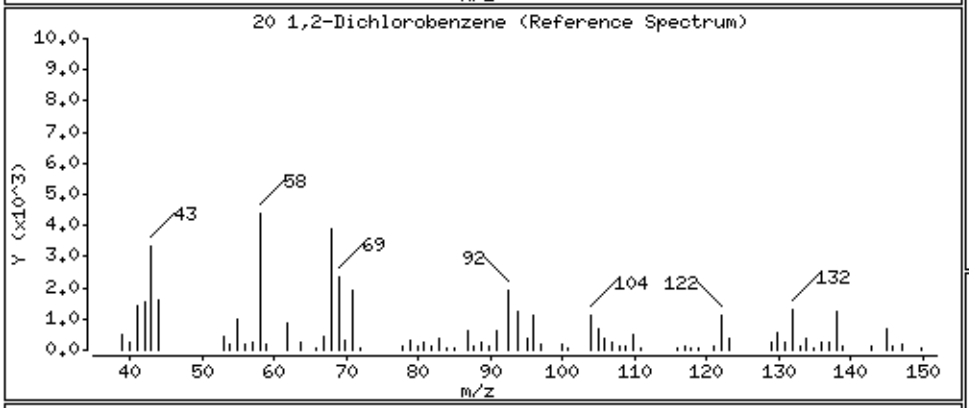
Concentration: 73.7 ug/kg

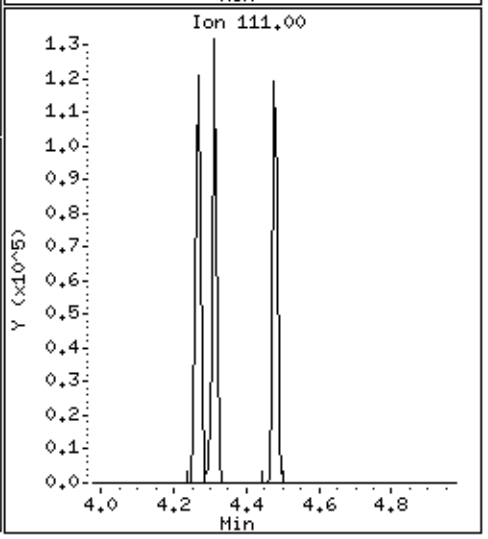


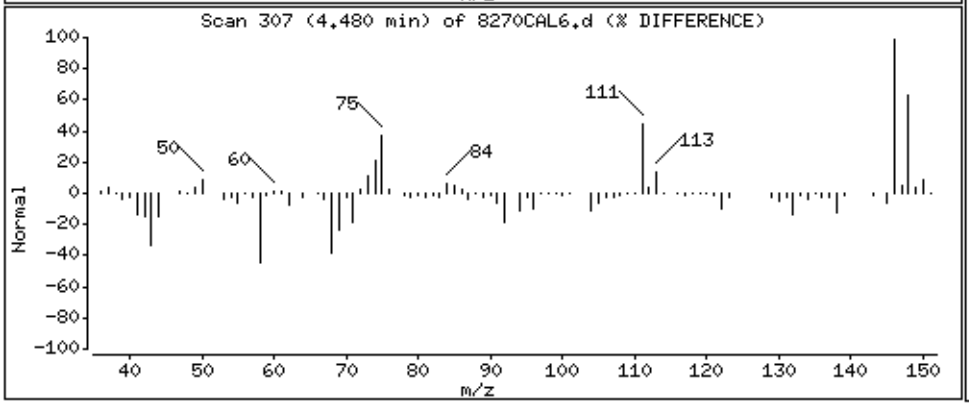












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

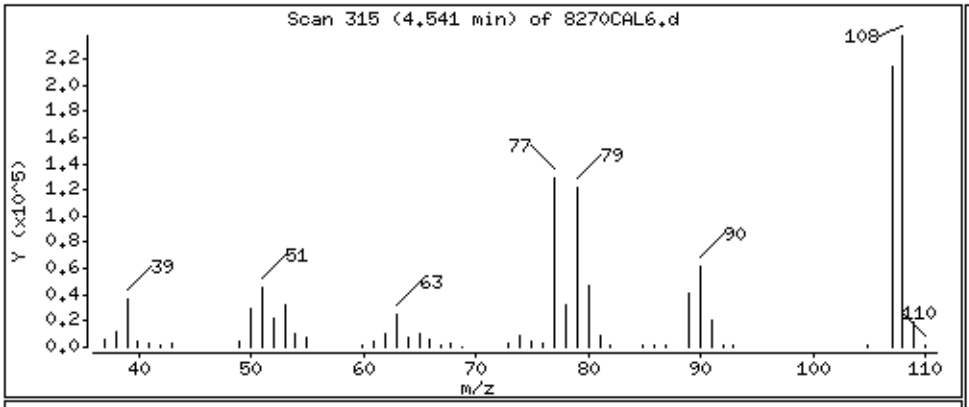
Operator: MJ

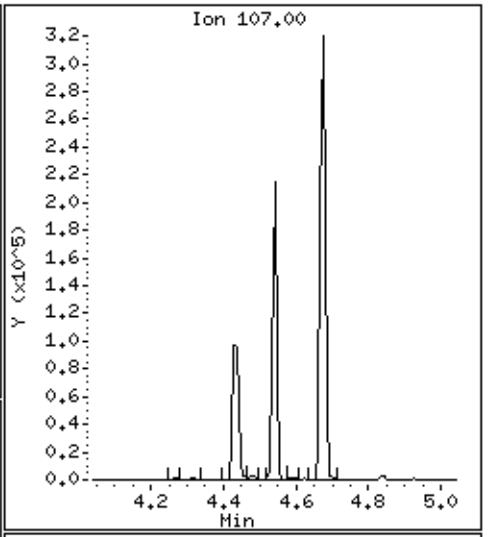
Column phase: HPMS-5

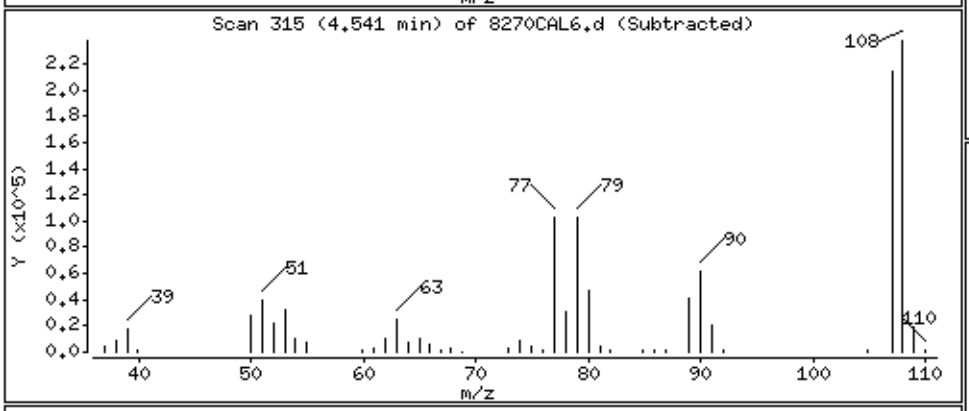
Column diameter: 0.25

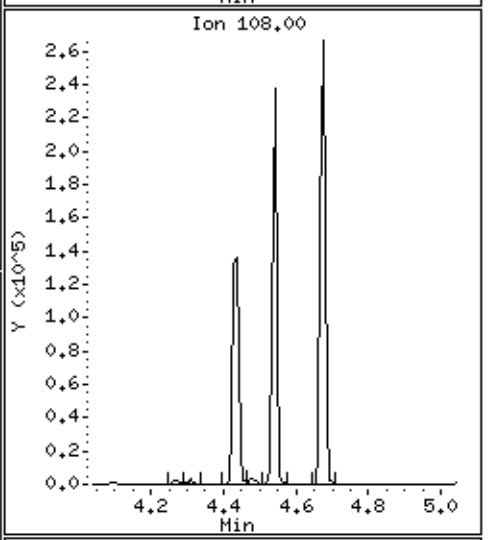
22 2-Methylphenol

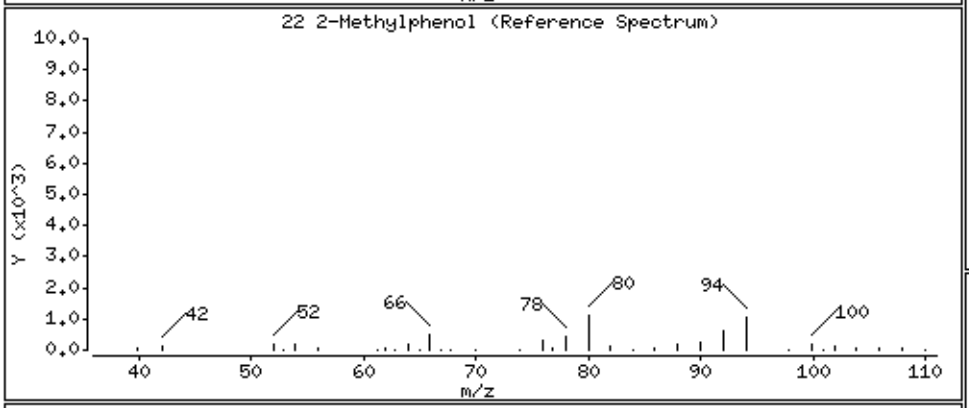
Concentration: 73.8 ug/kg

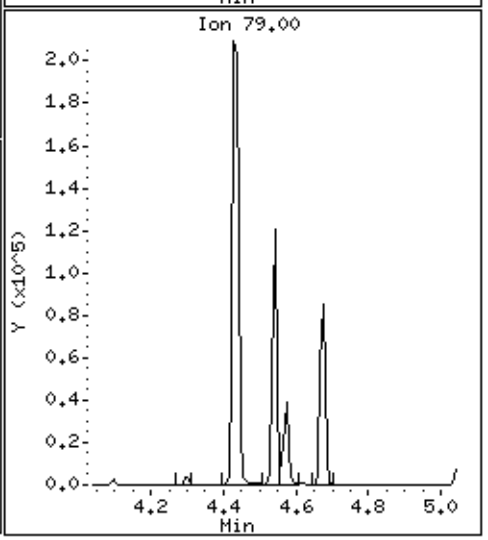


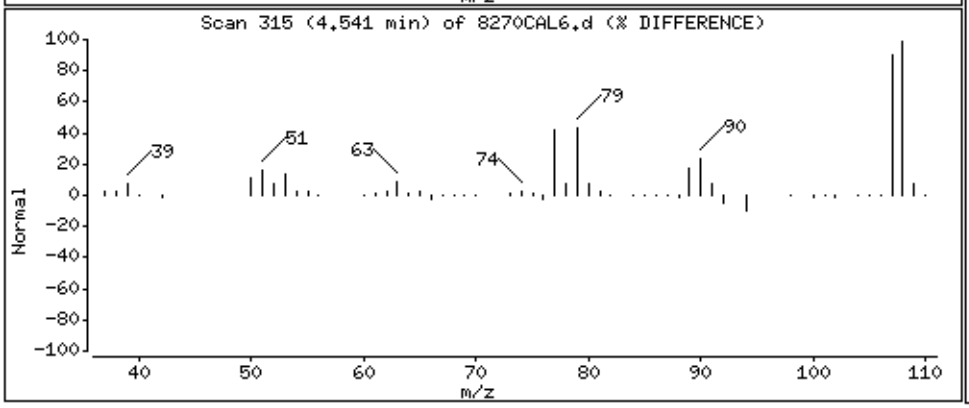












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

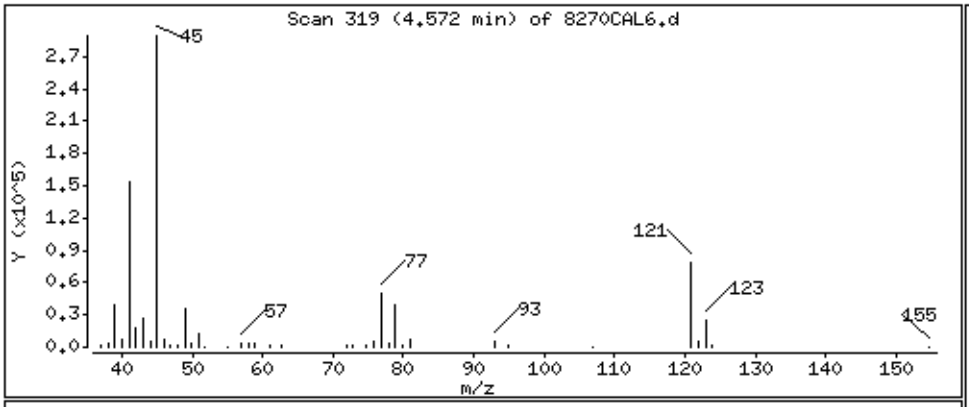
Operator: MJ

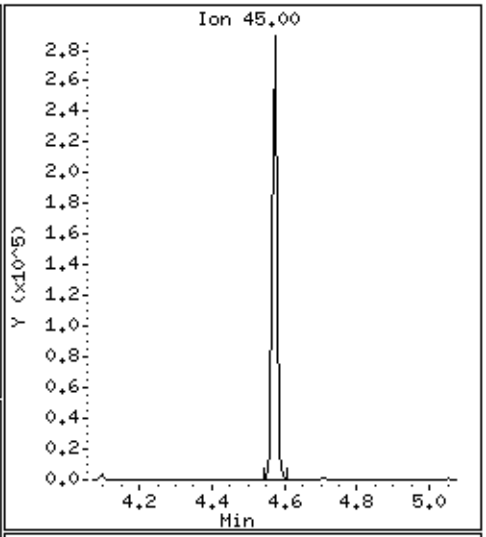
Column phase: HPMS-5

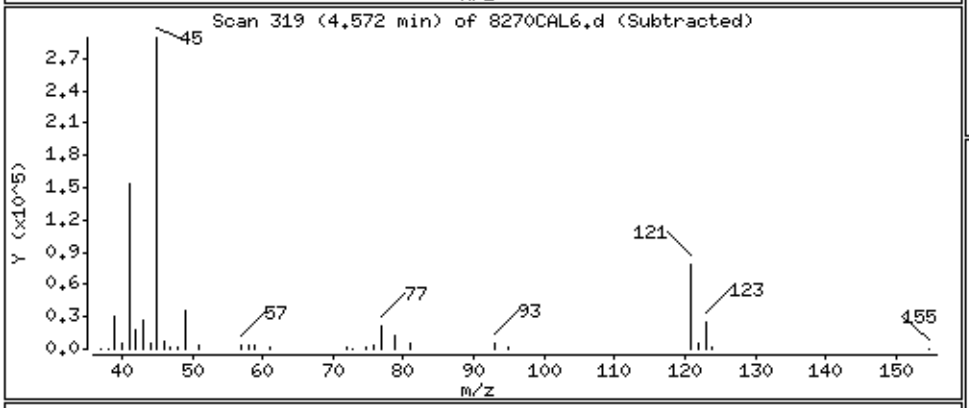
Column diameter: 0.25

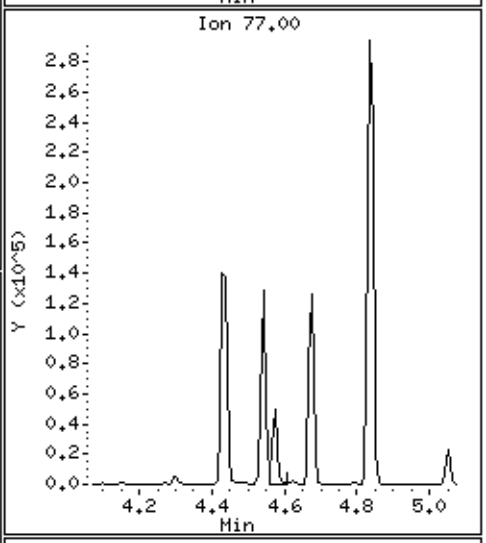
23 2,2'-oxybis(1-chloropropane)

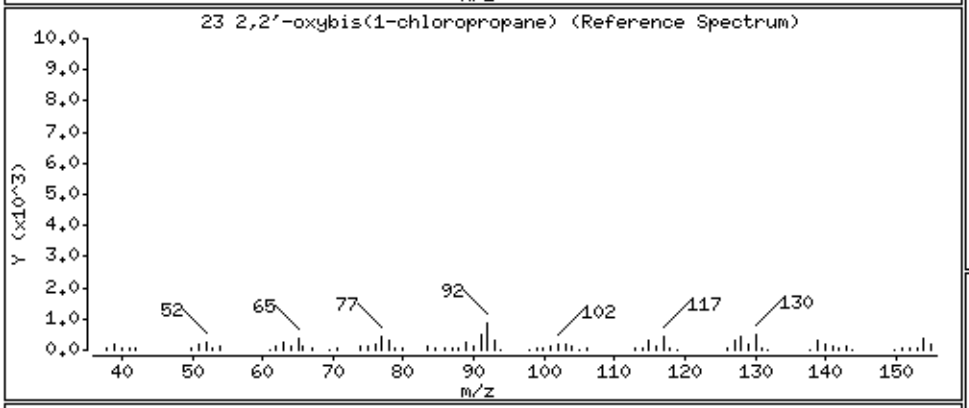
Concentration: 74.0 ug/kg

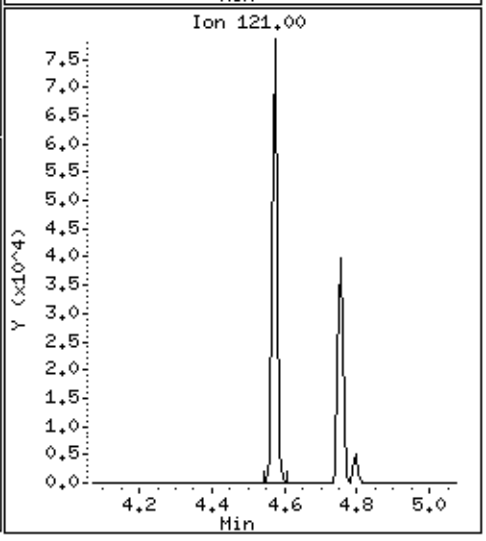


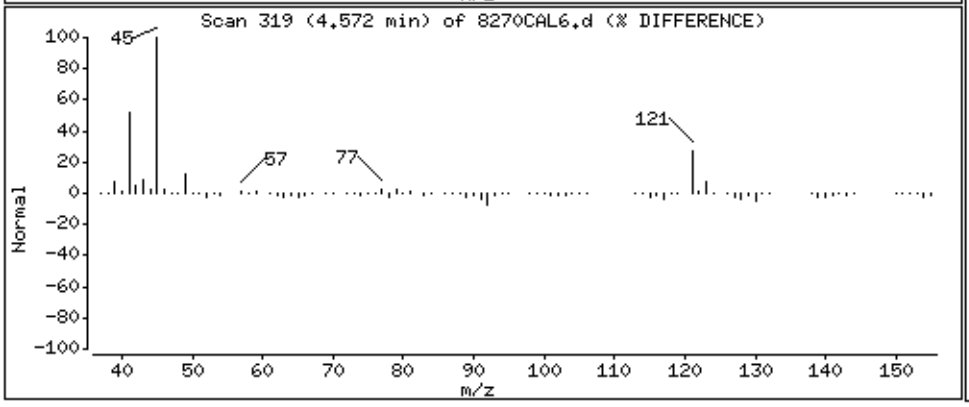












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

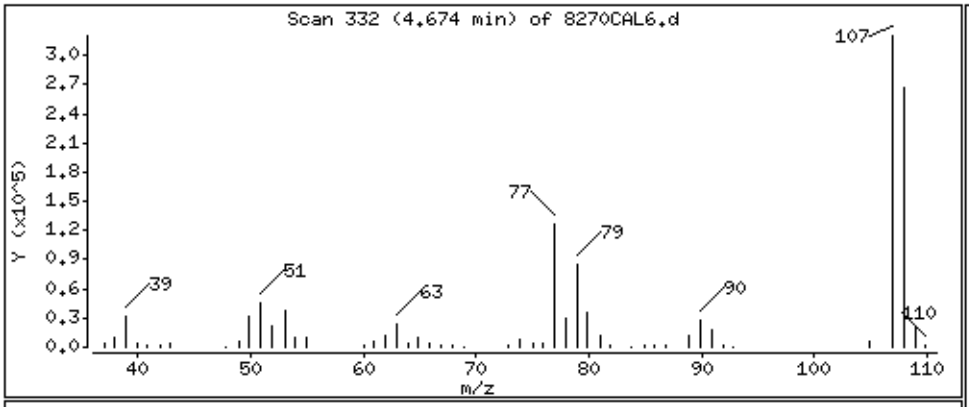
Operator: MJ

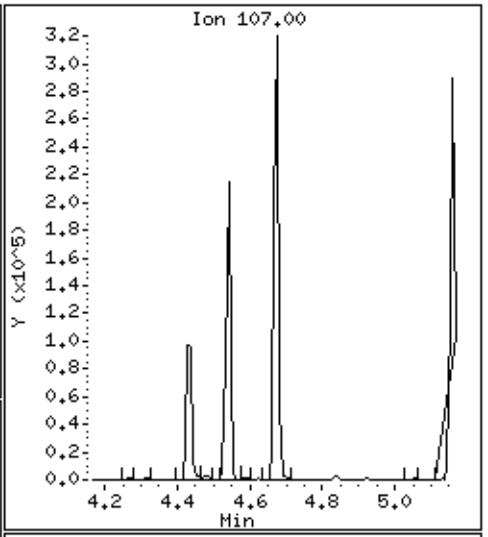
Column phase: HPMS-5

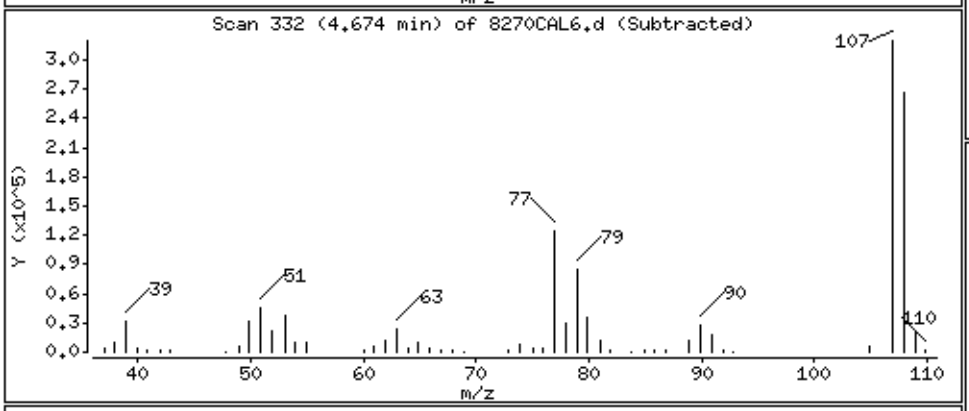
Column diameter: 0.25

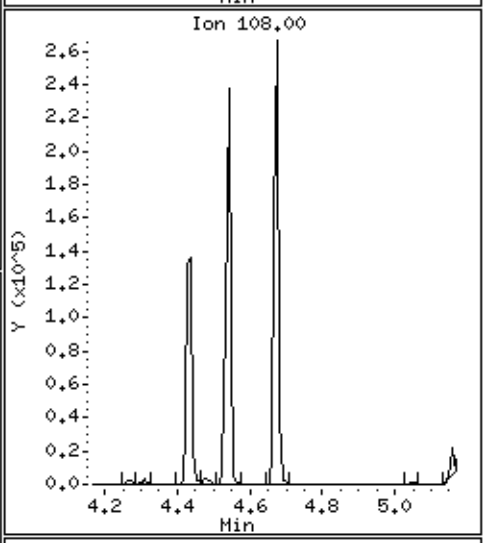
28 4-Methylphenol

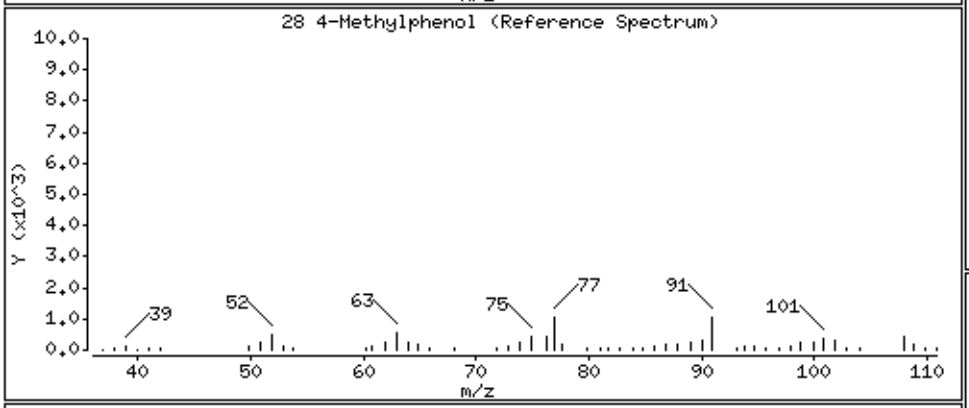
Concentration: 72.8 ug/kg

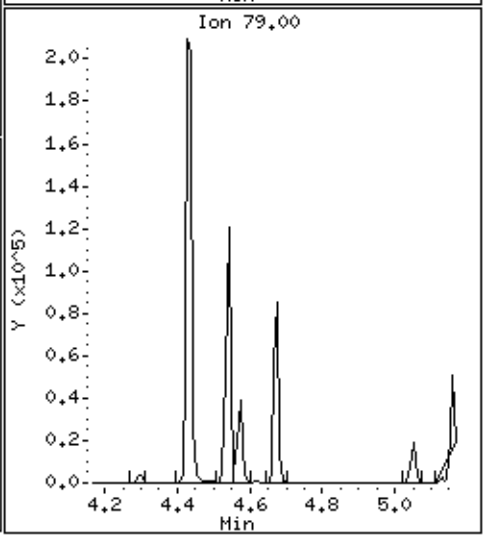


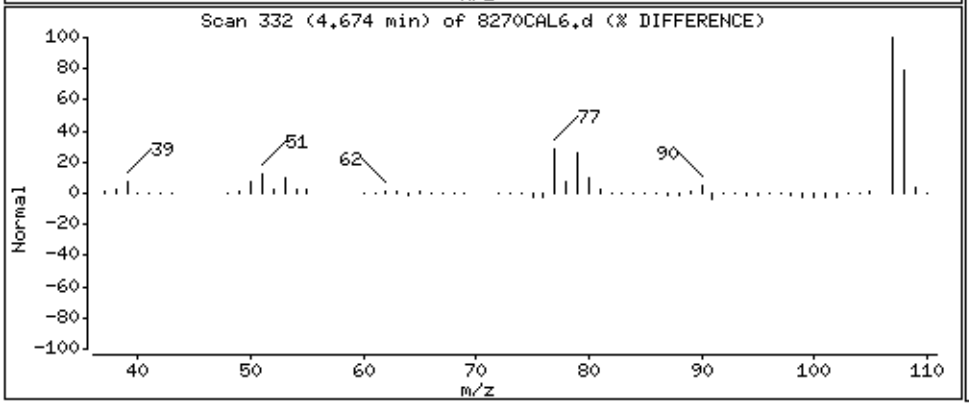












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

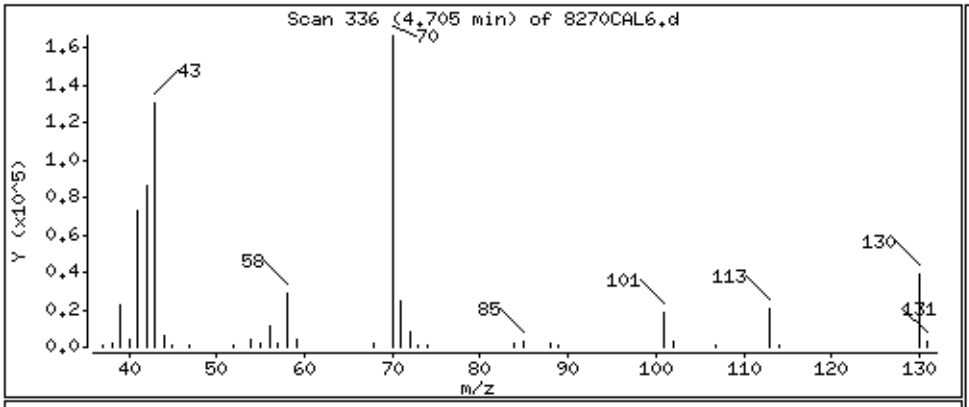
Client ID: 8270CAL6 Instrument: smsd04.i

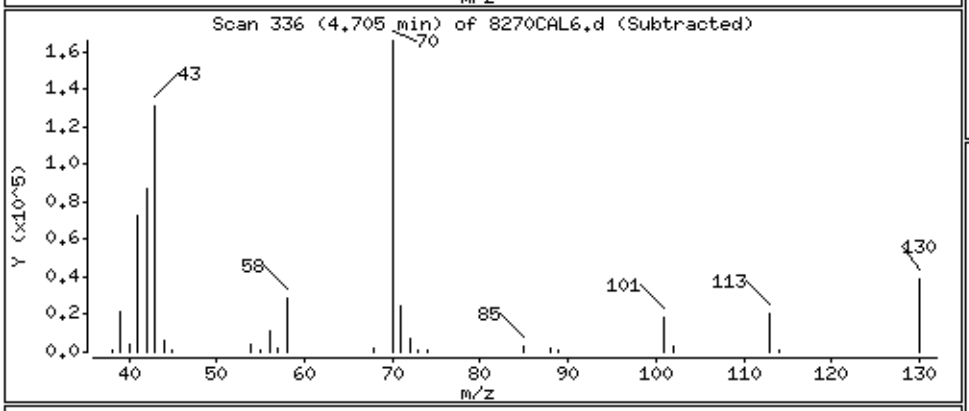
Sample Info: 47764

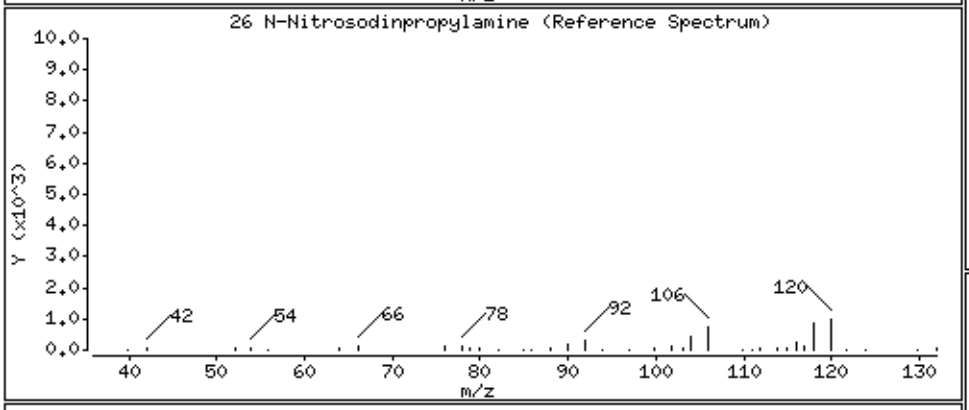
Operator: MJ

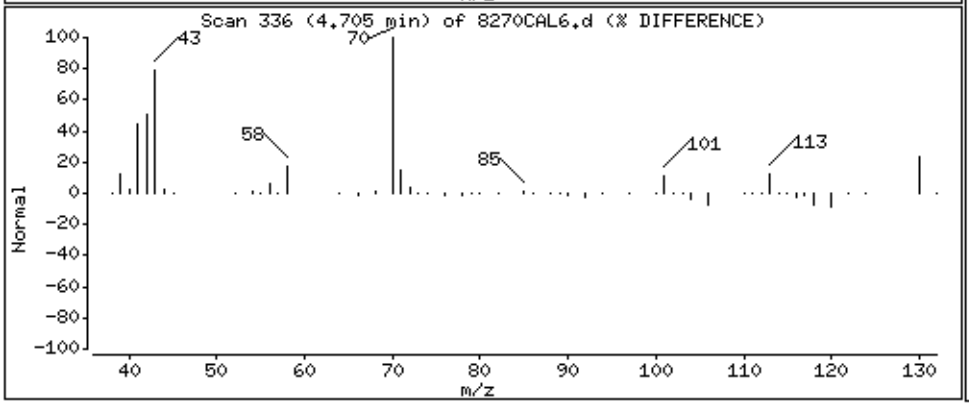
Column phase: HPMS-5 Column diameter: 0.25

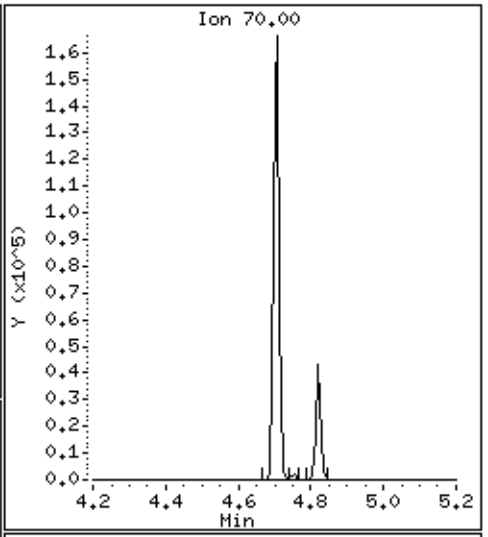
26 N-Nitrosodinpropylamine Concentration: 74.4 ug/kg

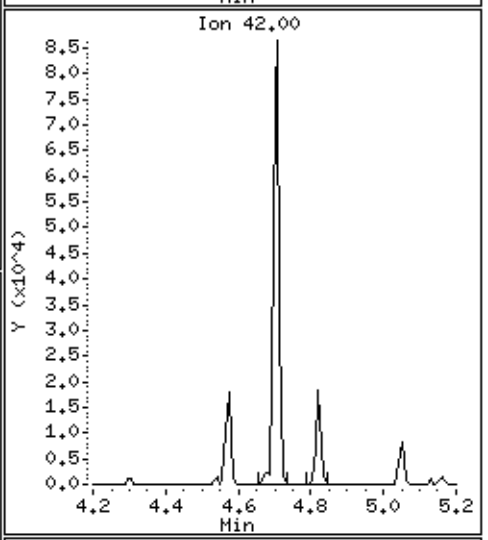


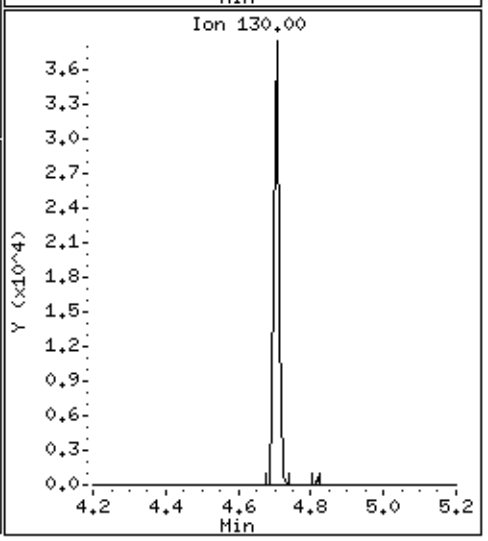












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

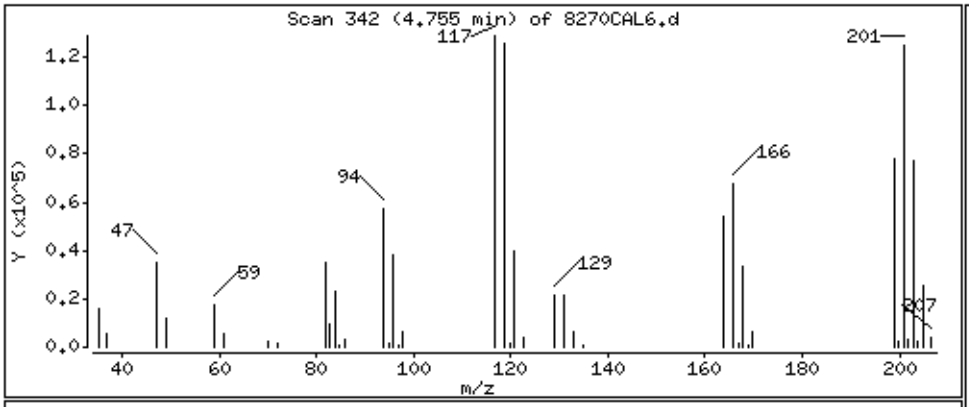
Operator: MJ

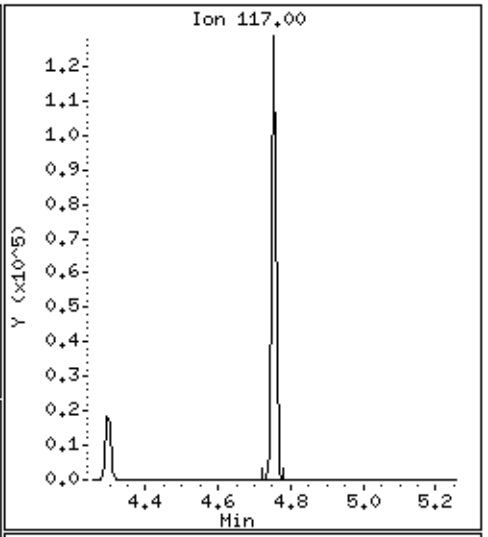
Column phase: HPMS-5

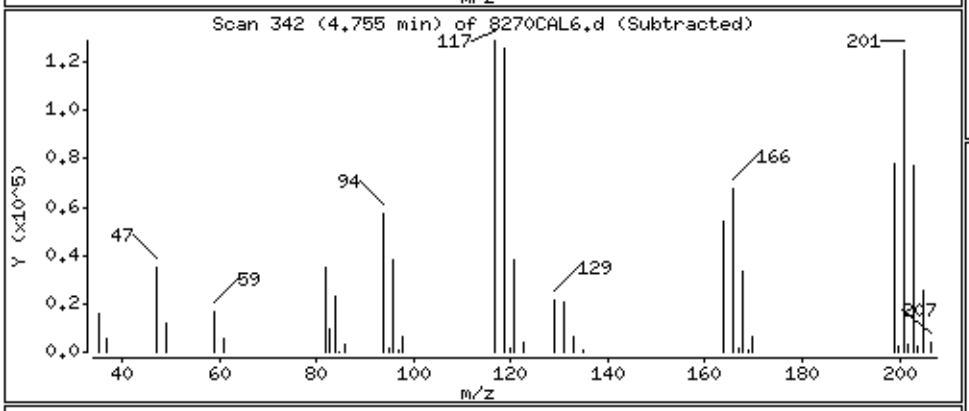
Column diameter: 0.25

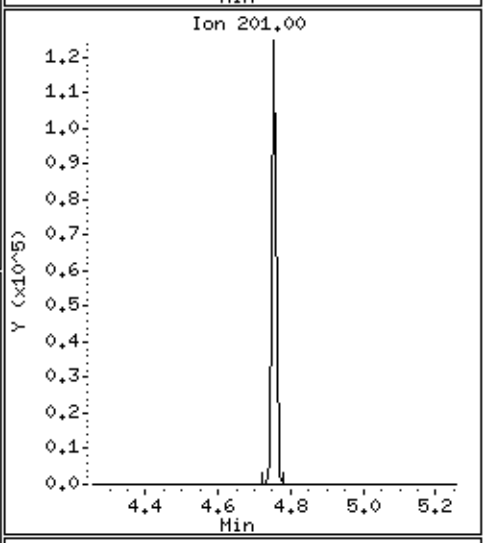
30 Hexachloroethane

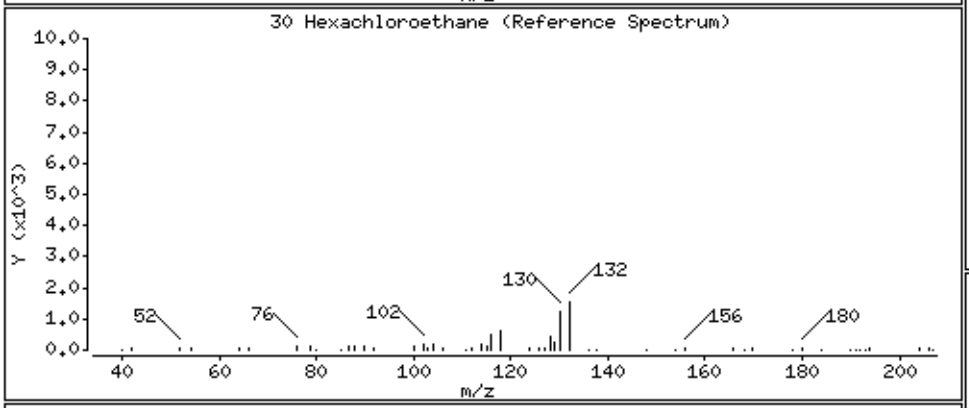
Concentration: 75.1 ug/kg

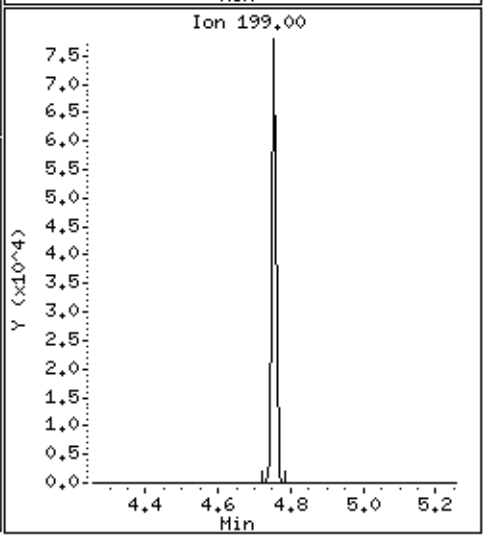


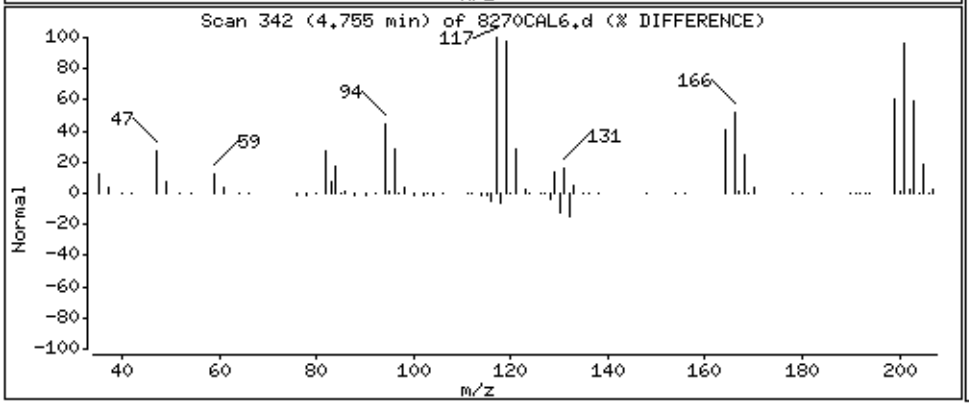












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

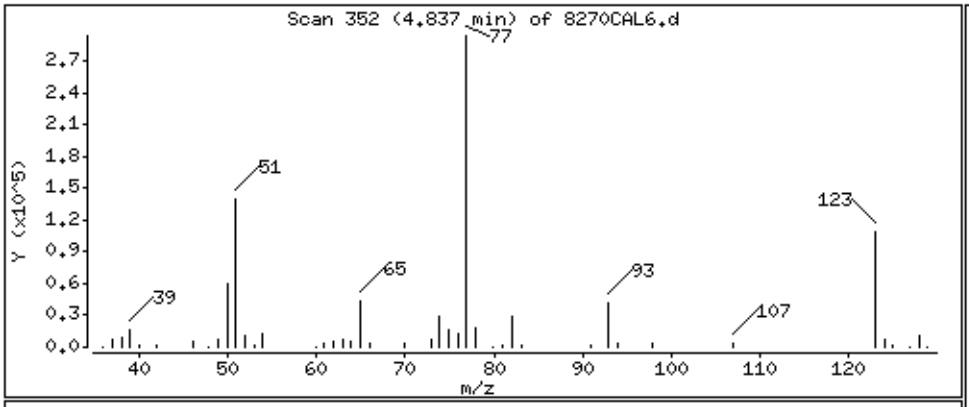
Operator: MJ

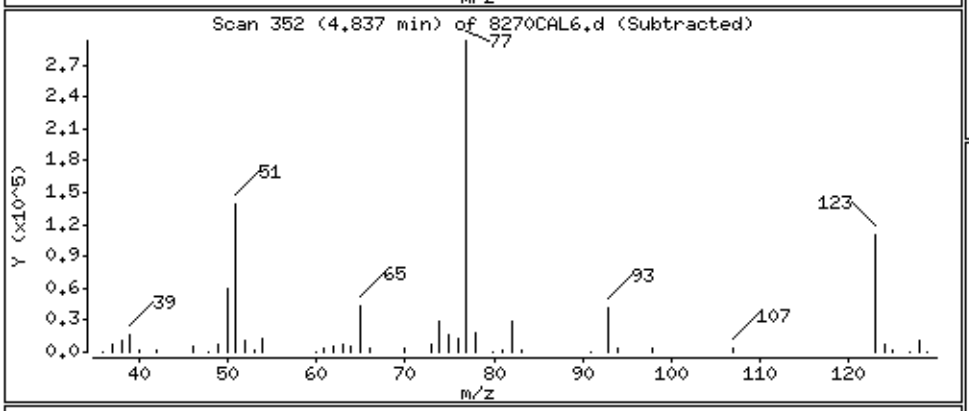
Column phase: HPMS-5

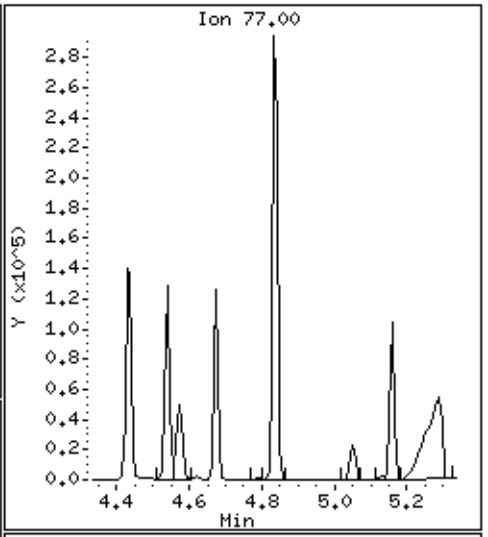
Column diameter: 0.25

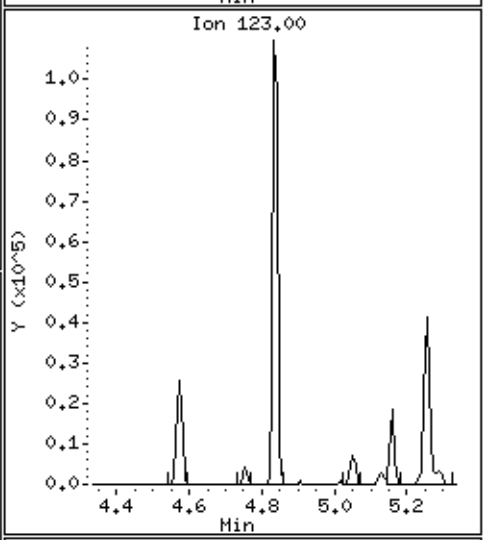
32 Nitrobenzene

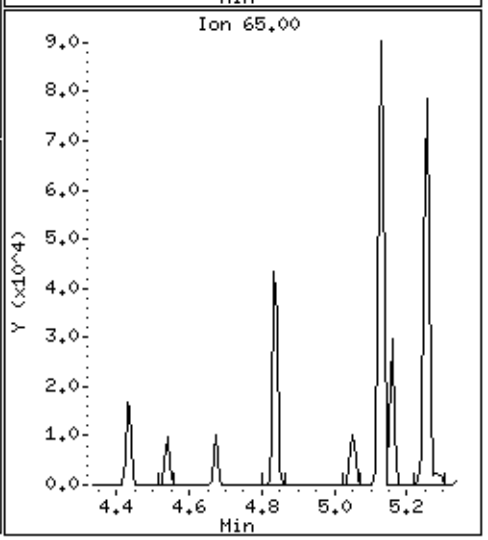
Concentration: 73.5 ug/kg











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Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

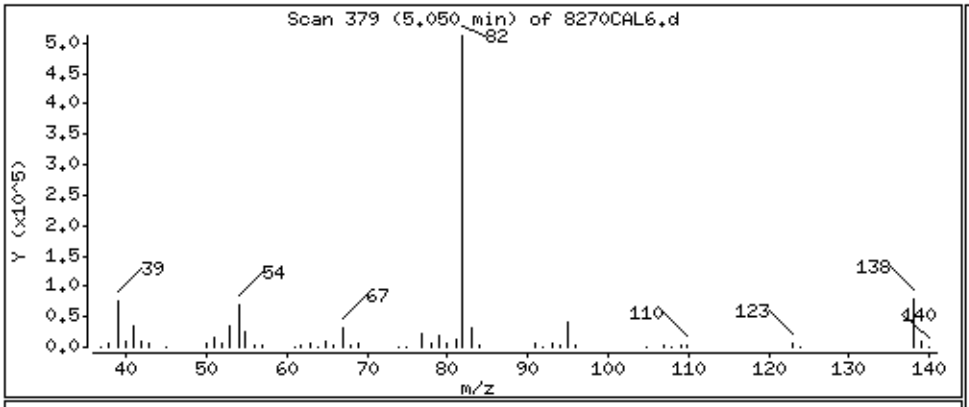
Operator: MJ

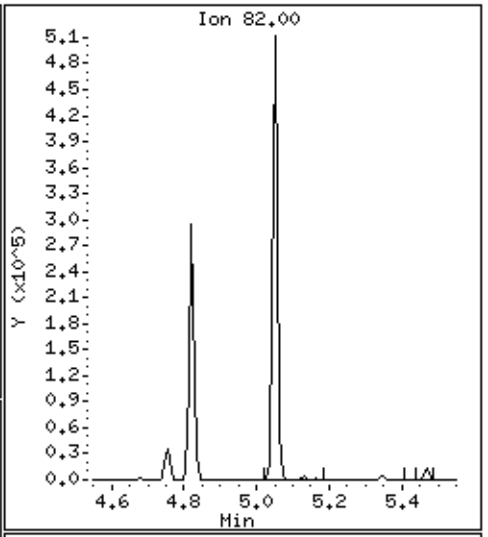
Column phase: HPMS-5

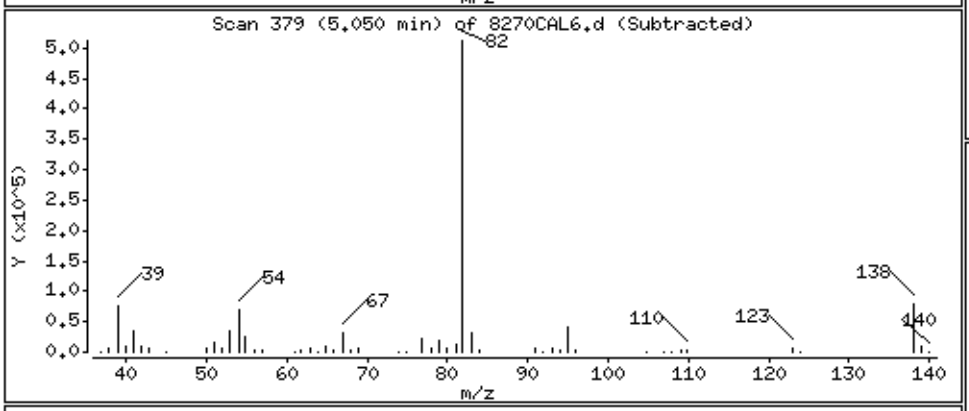
Column diameter: 0.25

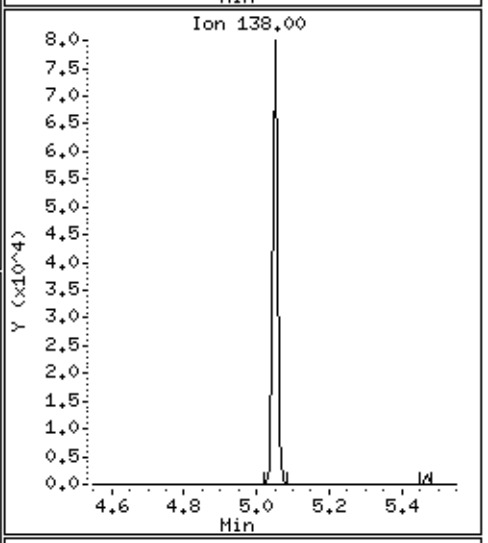
34 Isophorone

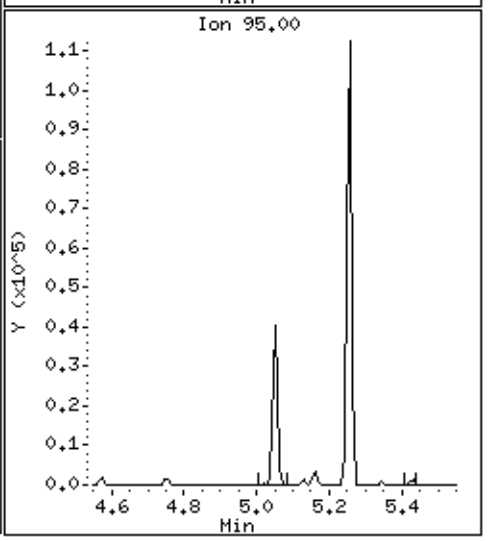
Concentration: 73.4 ug/kg











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Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

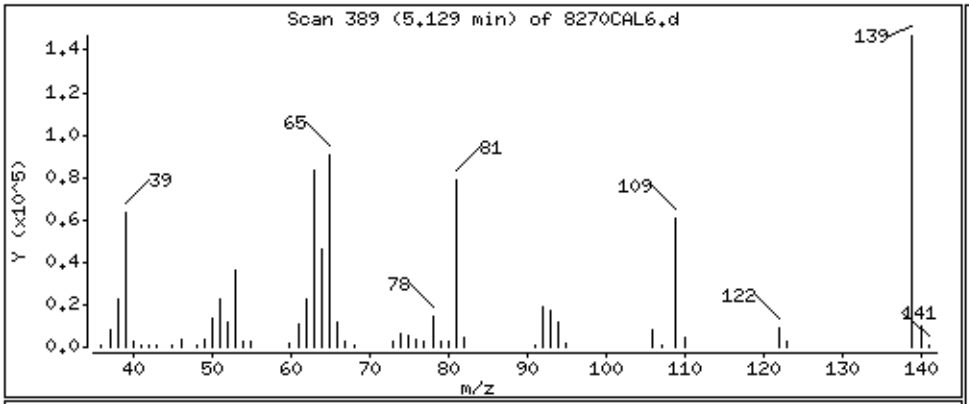
Operator: MJ

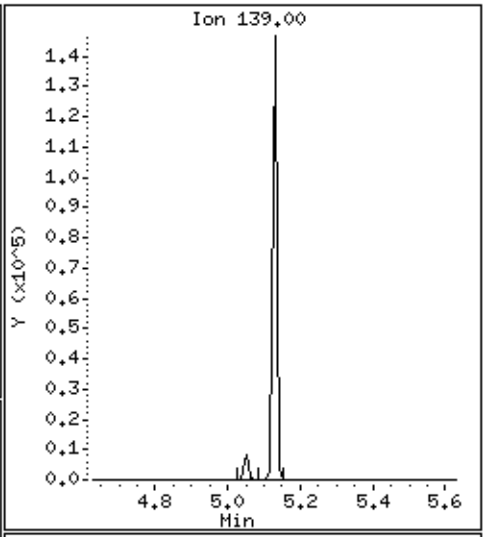
Column phase: HPMS-5

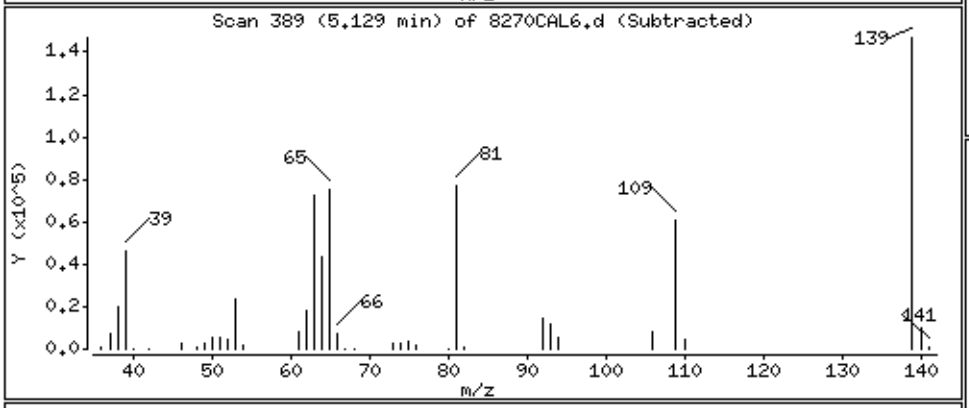
Column diameter: 0.25

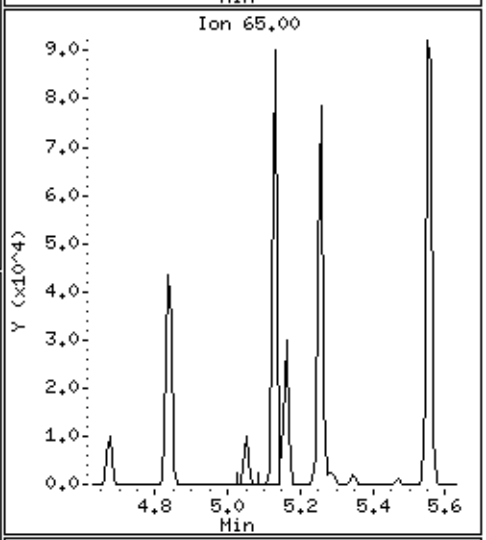
35 2-Nitrophenol

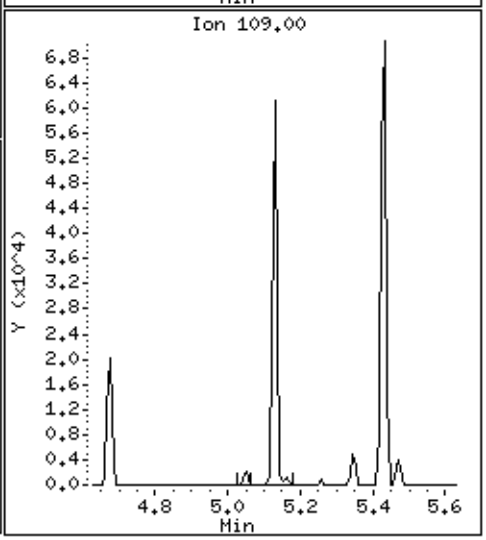
Concentration: 75.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

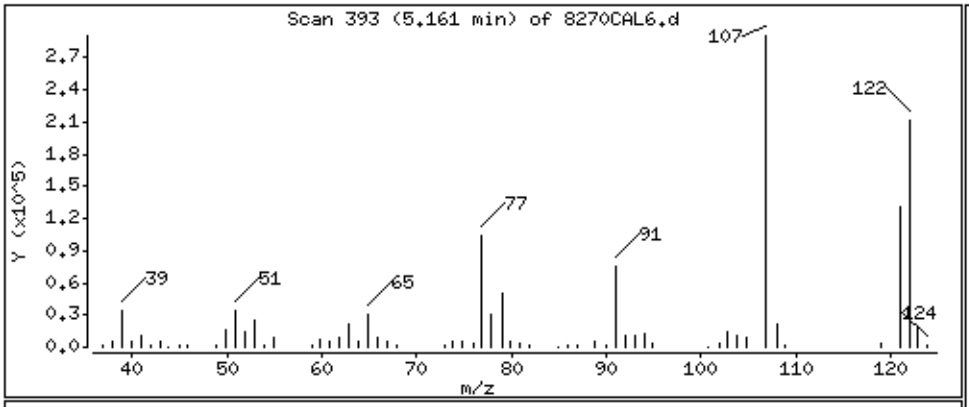
Operator: MJ

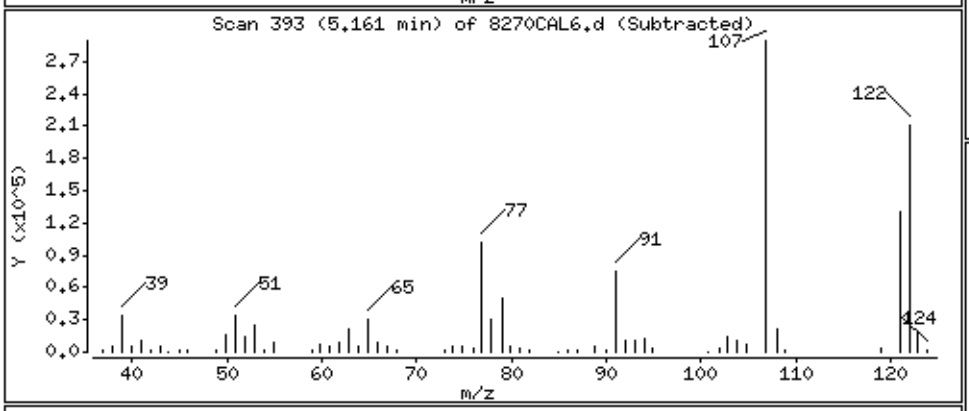
Column phase: HPMS-5

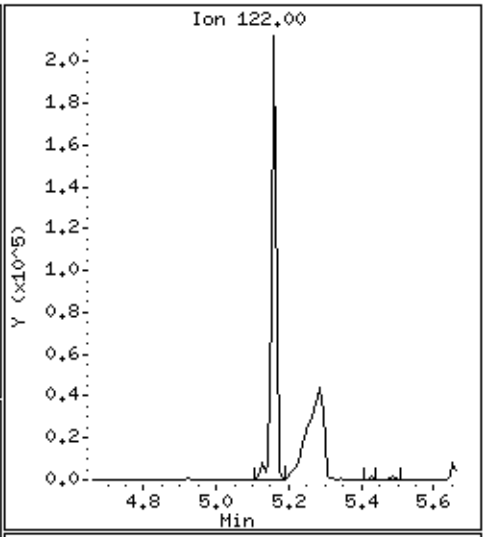
Column diameter: 0.25

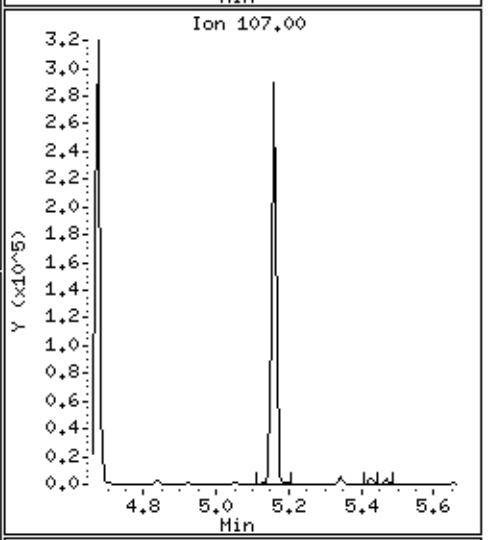
36 2,4-Dimethylphenol

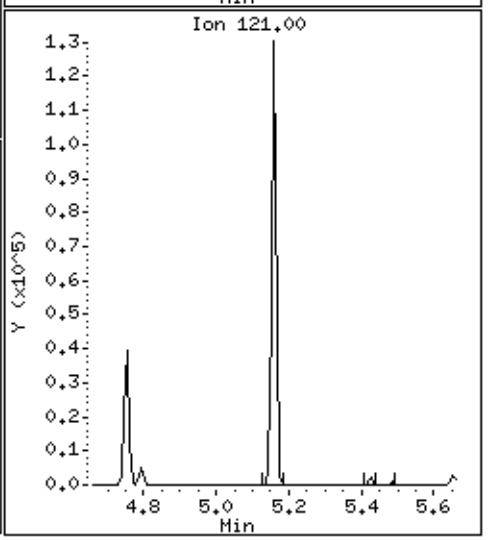
Concentration: 75.6 ug/kg











Date : 14-NOV-2012 23:01

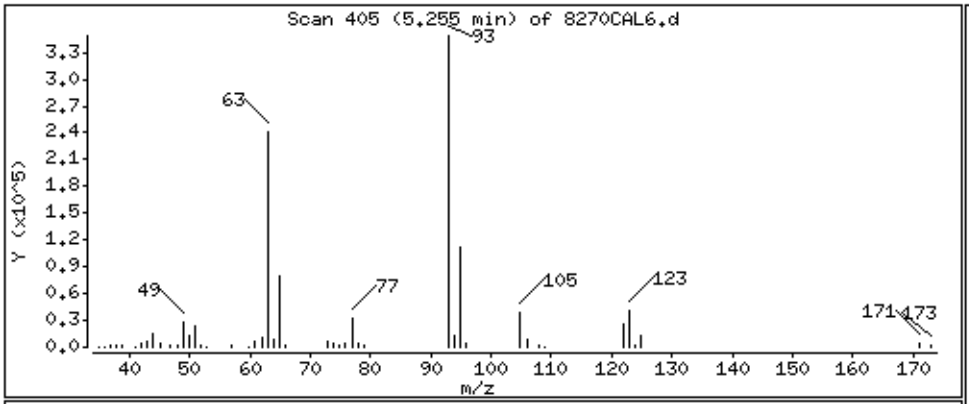
Client ID: 8270CAL6 Instrument: smsd04.i

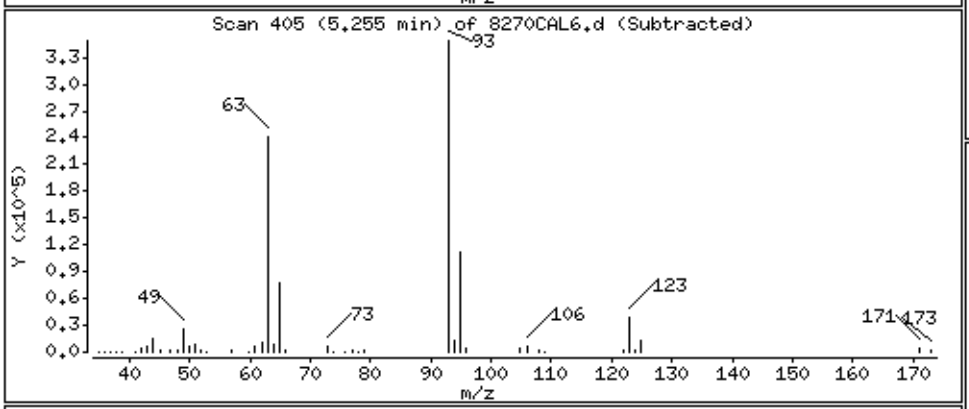
Sample Info: 47764

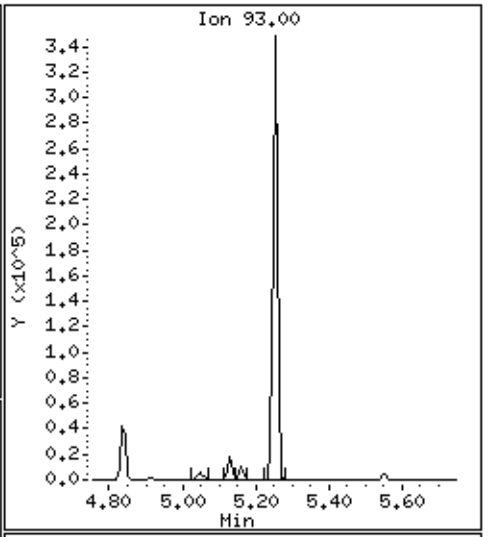
Operator: MJ

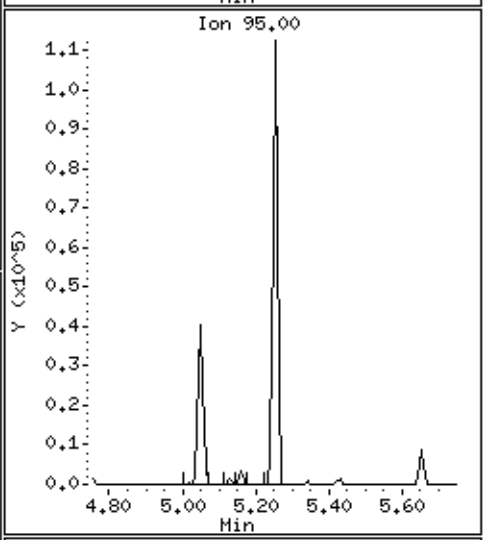
Column phase: HPMS-5 Column diameter: 0.25

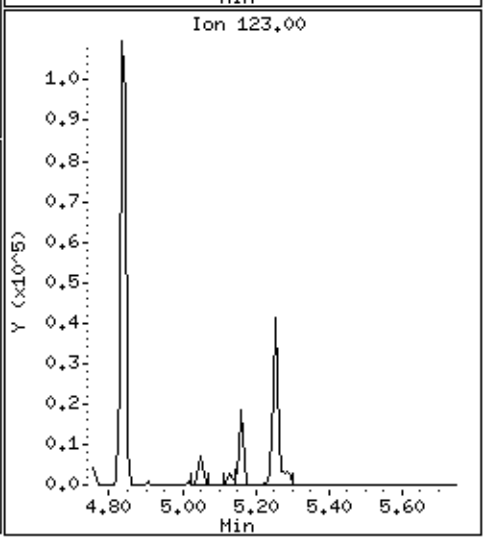
38 Bis(2-Chloroethoxy)methane Concentration: 74.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

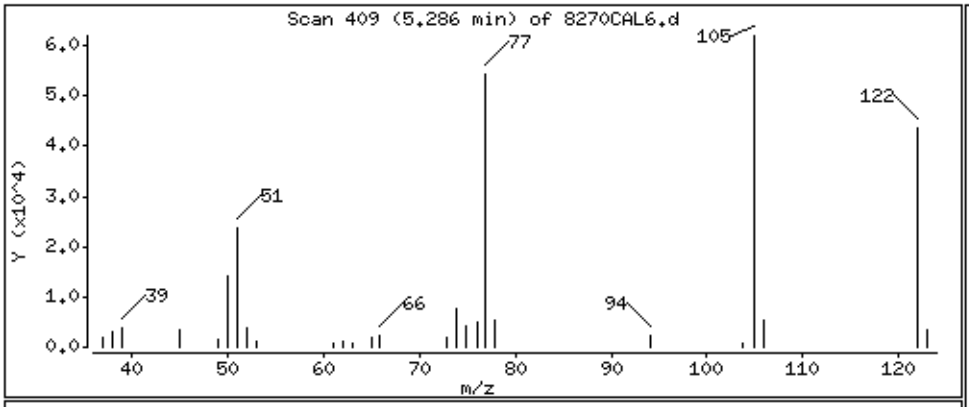
Operator: MJ

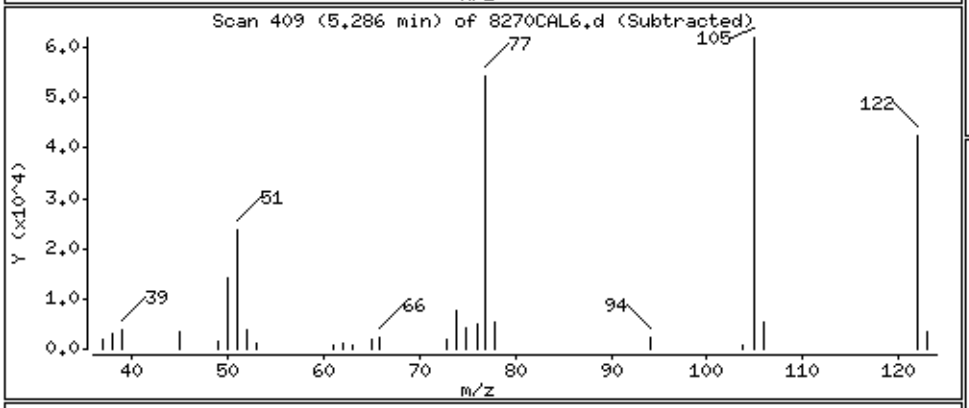
Column phase: HPMS-5

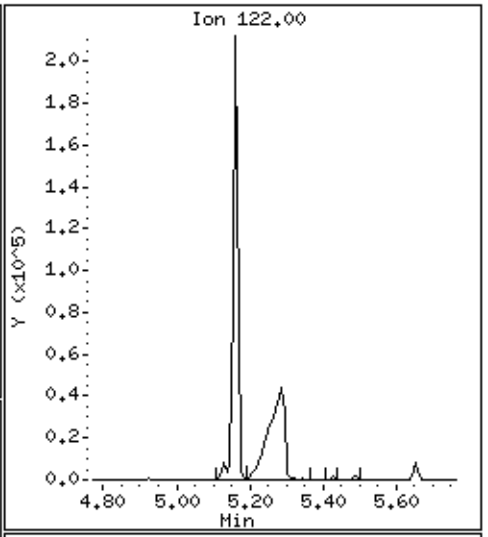
Column diameter: 0.25

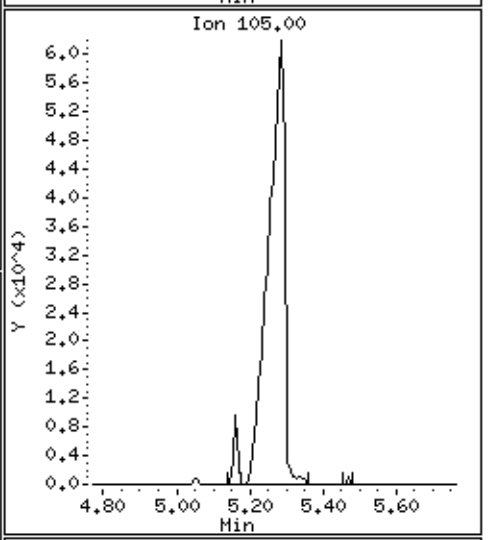
40 Benzoic Acid

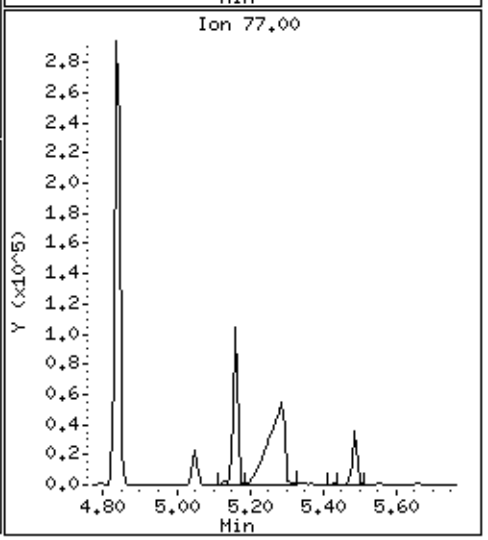
Concentration: 74.4 ug/kg











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Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

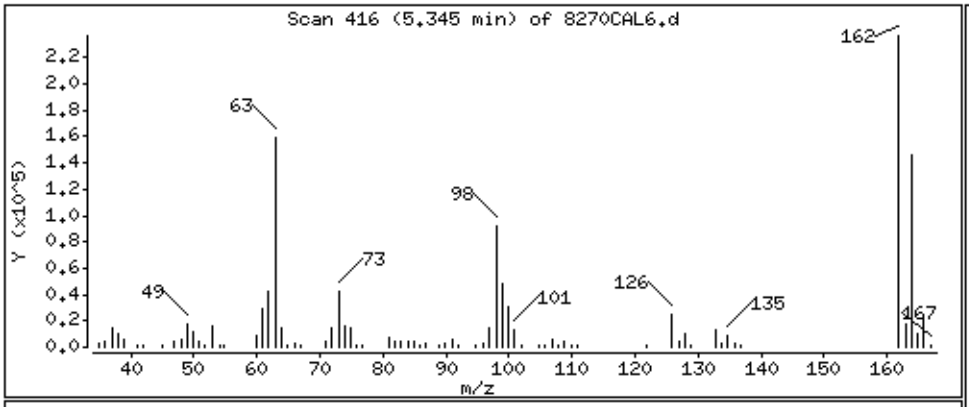
Operator: MJ

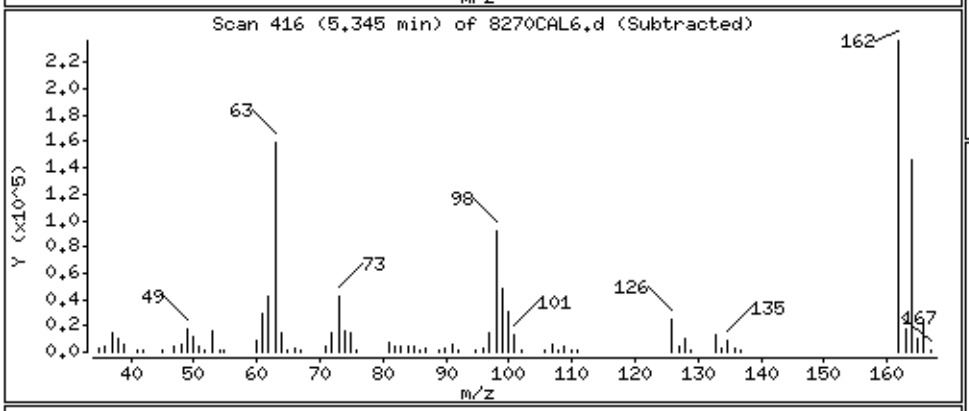
Column phase: HPMS-5

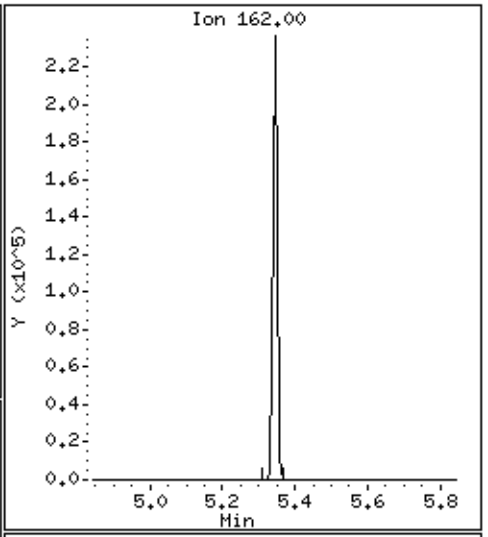
Column diameter: 0.25

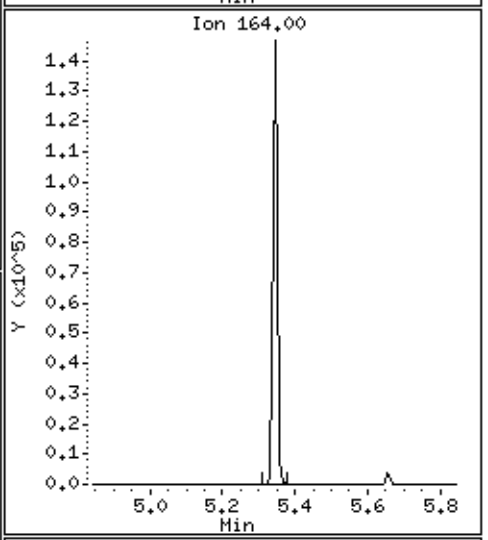
41 2,4-Dichlorophenol

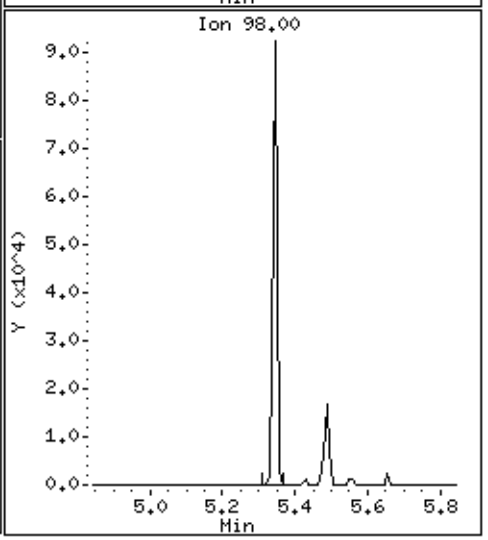
Concentration: 72.7 ug/kg











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Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

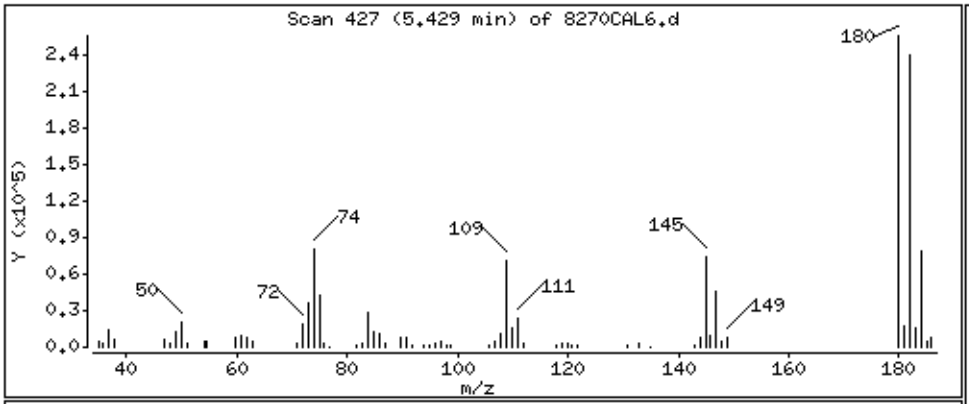
Operator: MJ

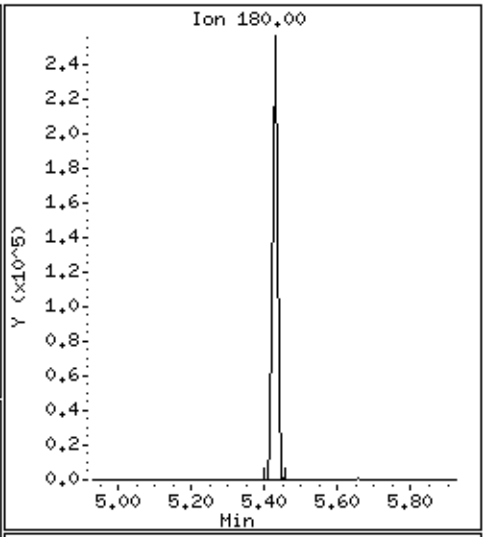
Column phase: HPMS-5

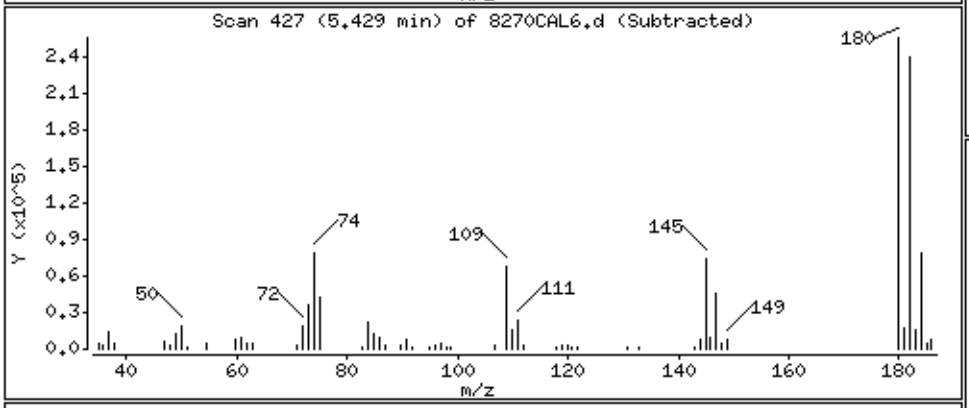
Column diameter: 0.25

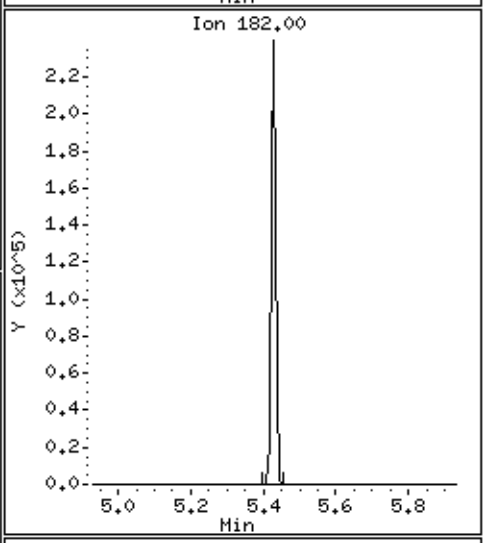
42 1,2,4-Trichlorobenzene

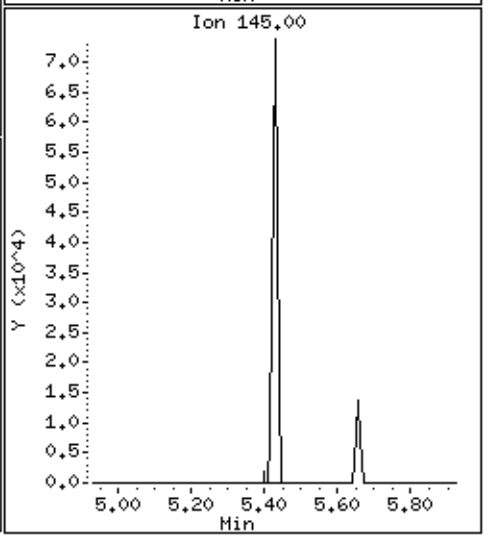
Concentration: 73.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

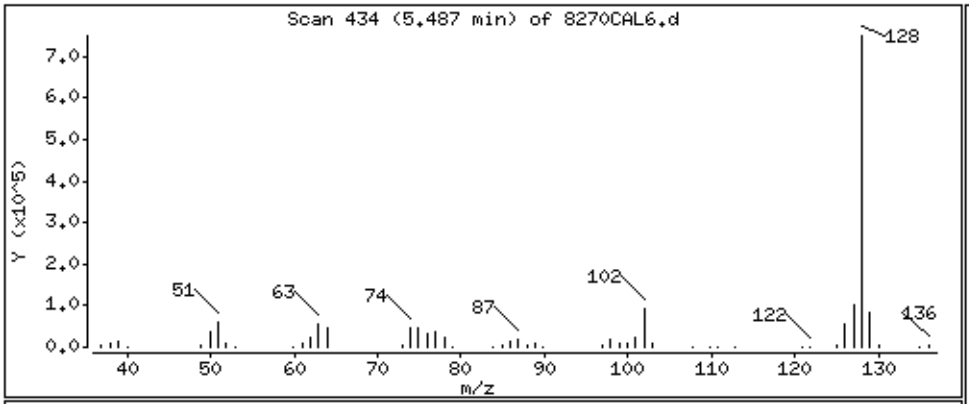
Operator: MJ

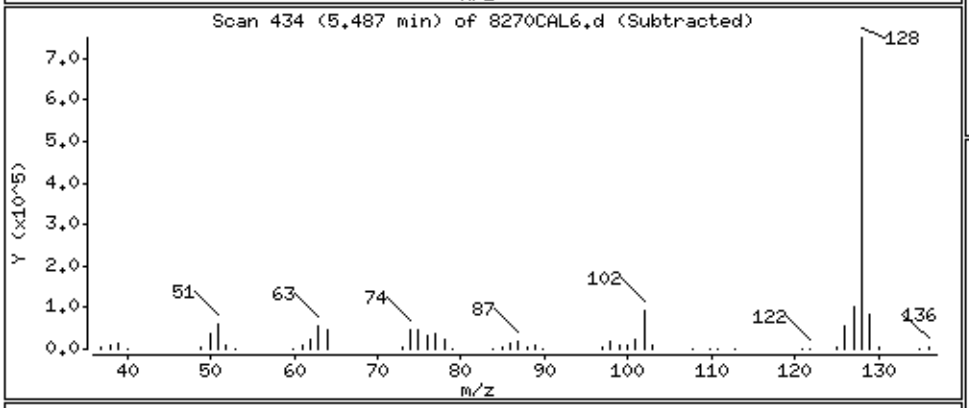
Column phase: HPMS-5

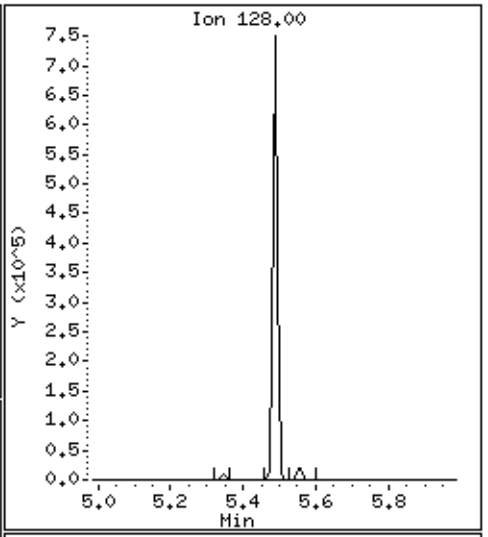
Column diameter: 0.25

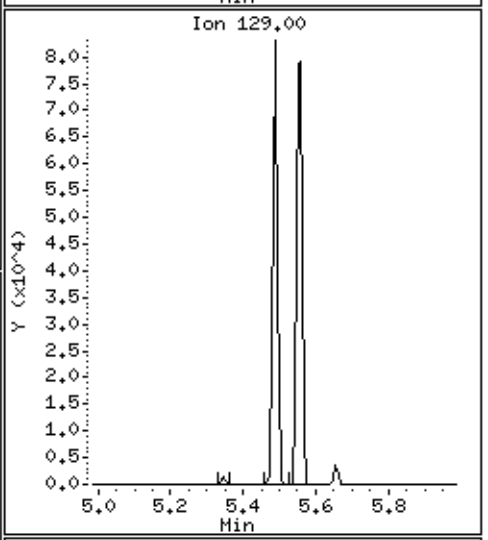
44 Naphthalene

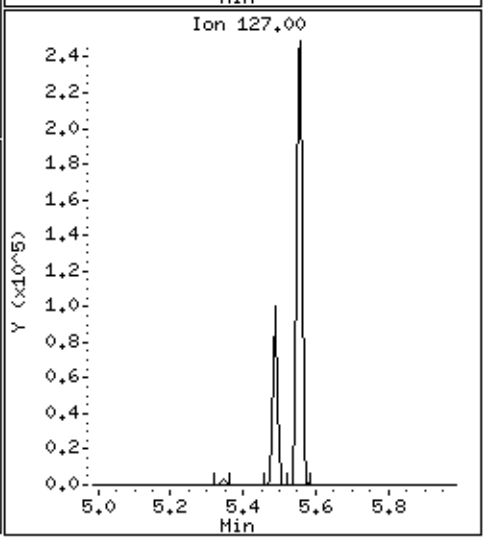
Concentration: 72.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

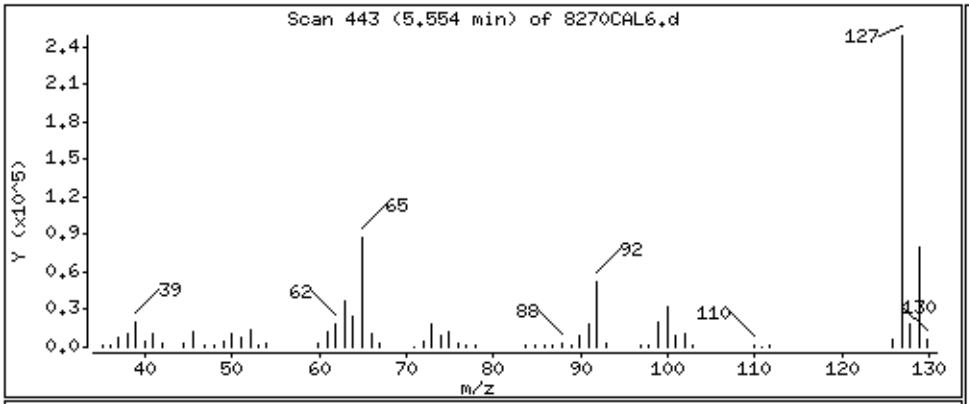
Operator: MJ

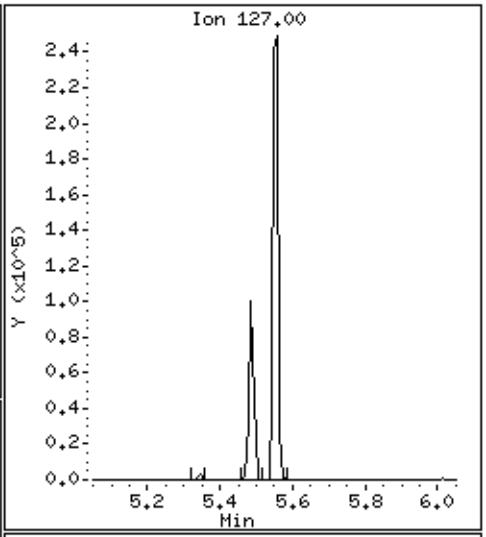
Column phase: HPMS-5

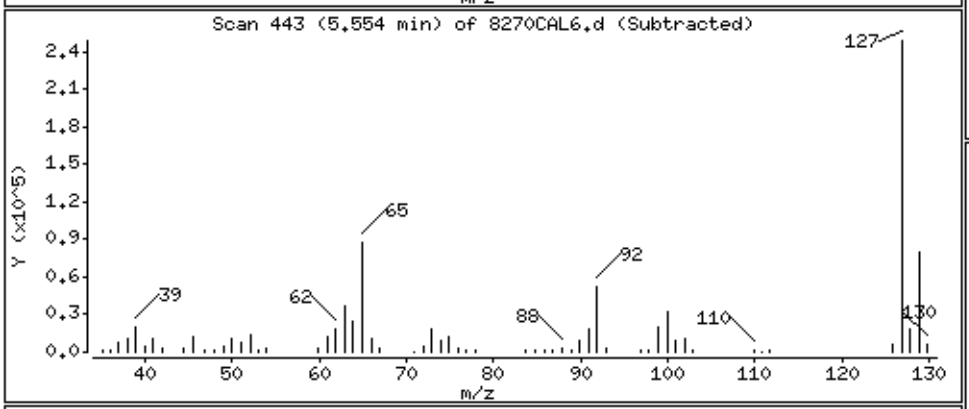
Column diameter: 0.25

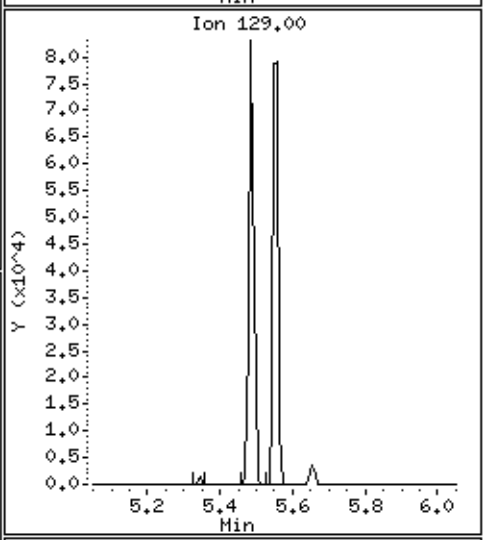
45 4-Chloroaniline

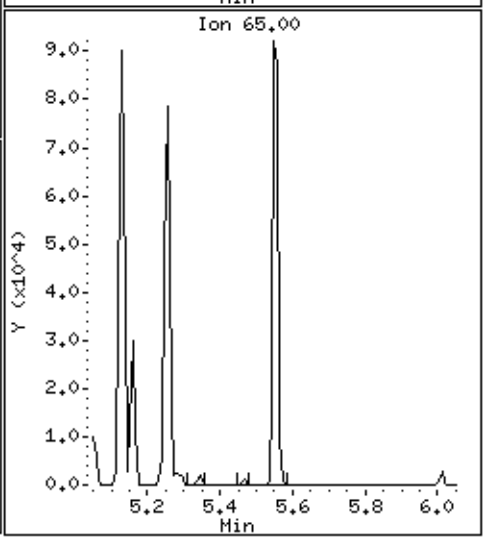
Concentration: 73.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

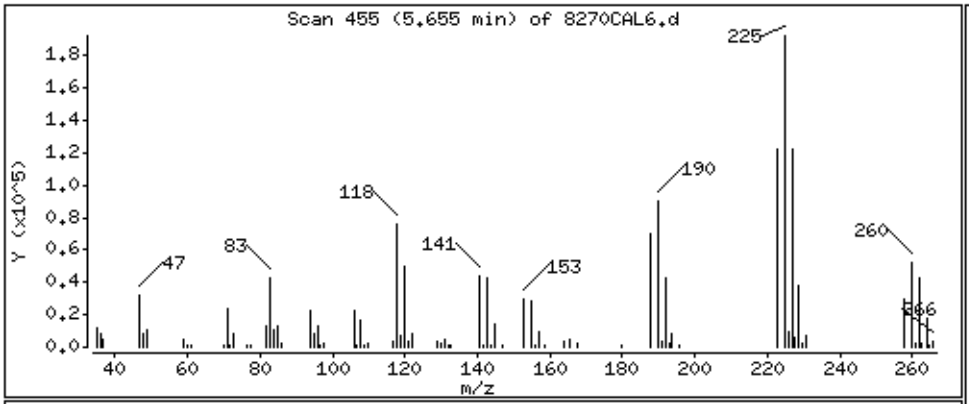
Operator: MJ

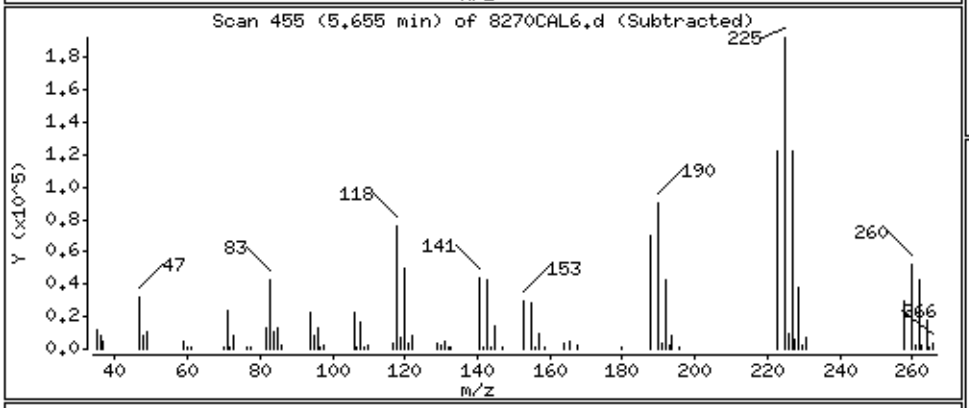
Column phase: HPMS-5

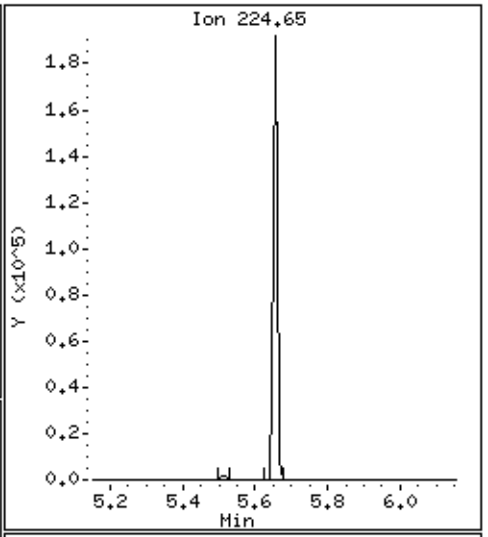
Column diameter: 0.25

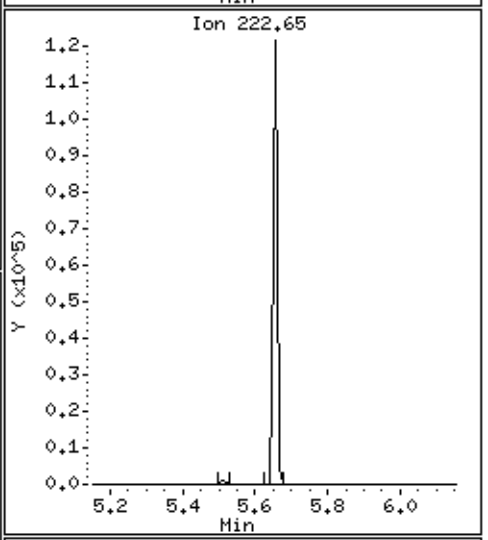
48 Hexachlorobutadiene

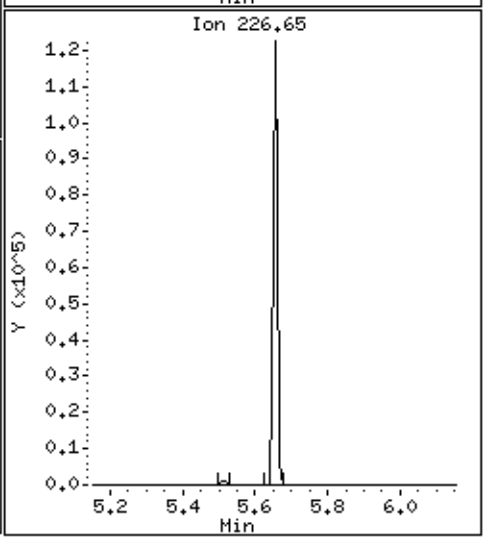
Concentration: 72.3 ug/kg











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Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

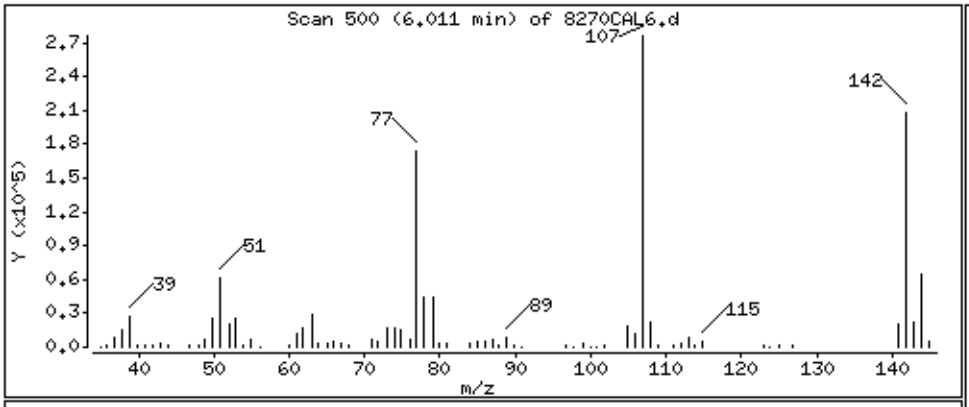
Operator: MJ

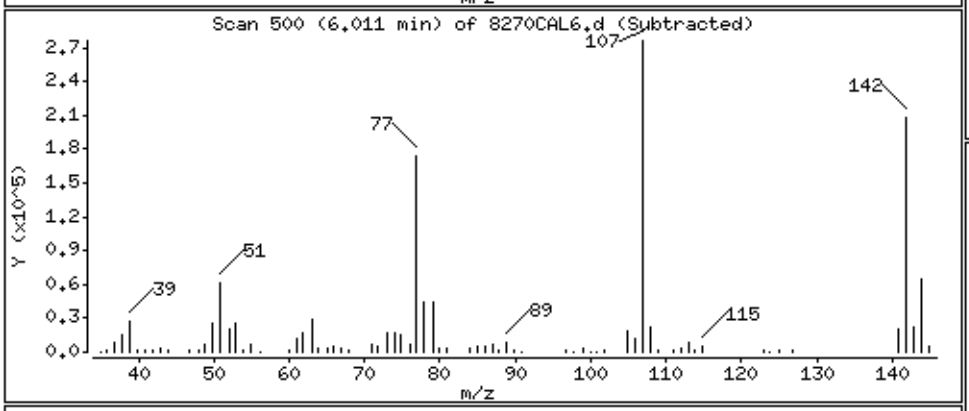
Column phase: HPMS-5

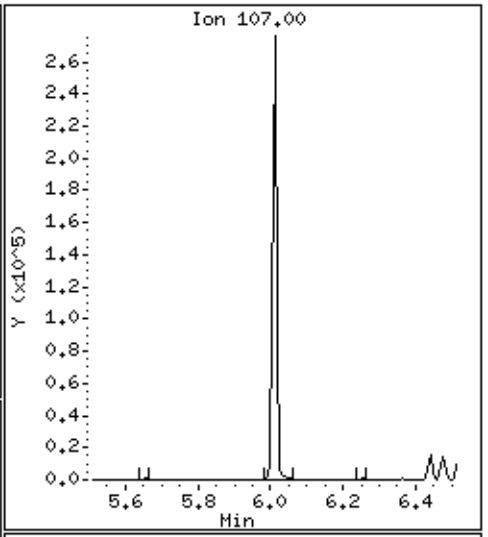
Column diameter: 0.25

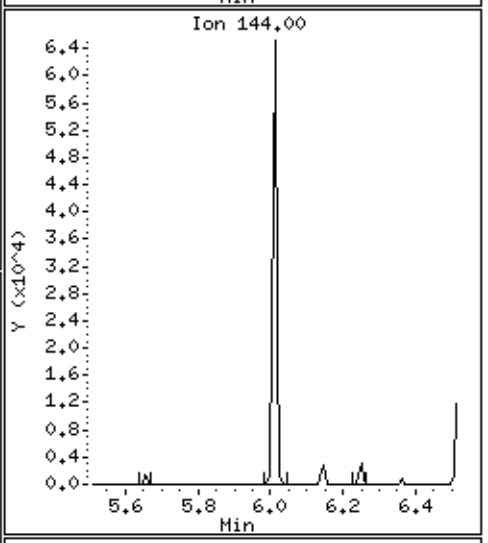
51 4-Chloro-3-methylphenol

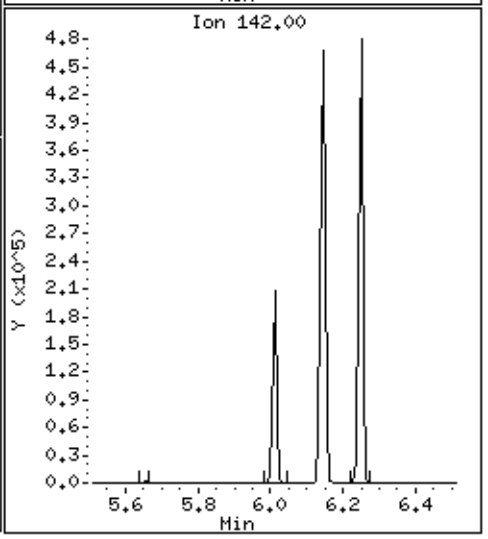
Concentration: 71.2 ug/kg











Date : 14-NOV-2012 23:01

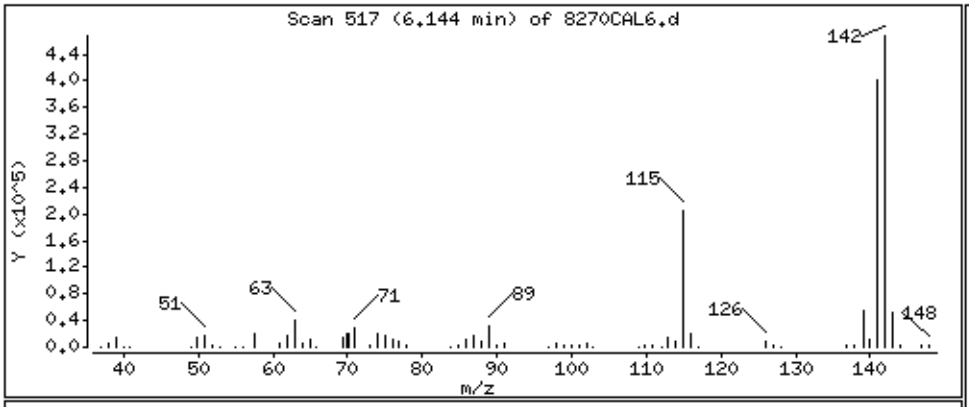
Client ID: 8270CAL6 Instrument: smsd04.i

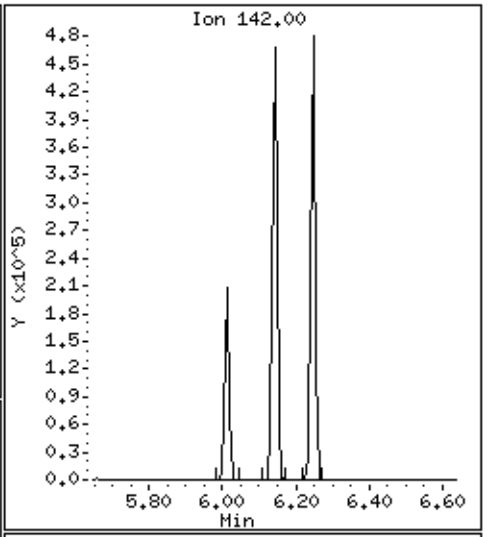
Sample Info: 47764

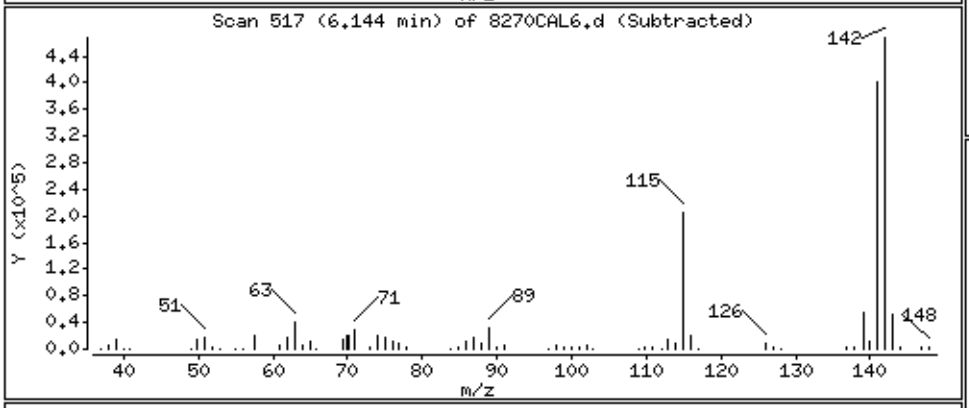
Operator: MJ

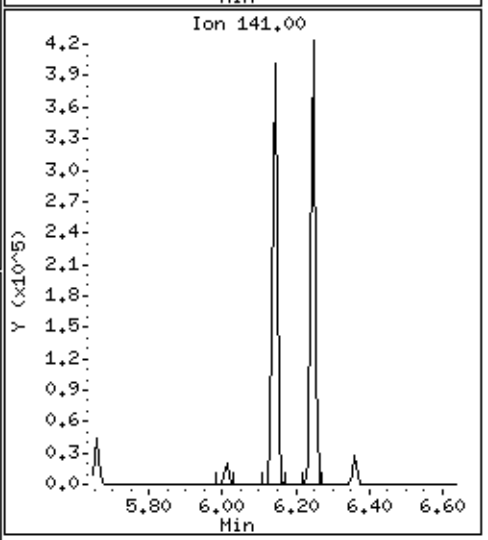
Column phase: HPMS-5 Column diameter: 0.25

53 2-Methylnaphthalene Concentration: 72.7 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

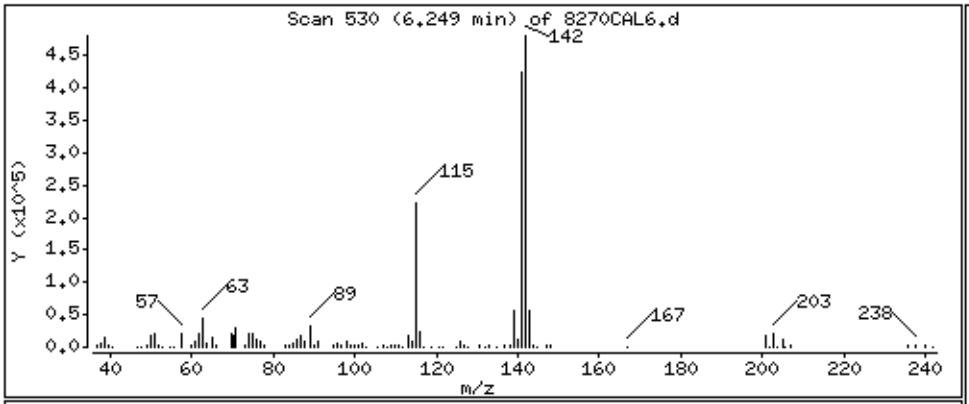
Operator: MJ

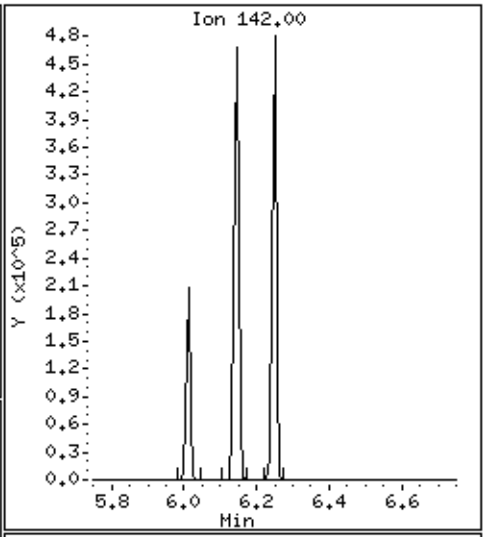
Column phase: HPMS-5

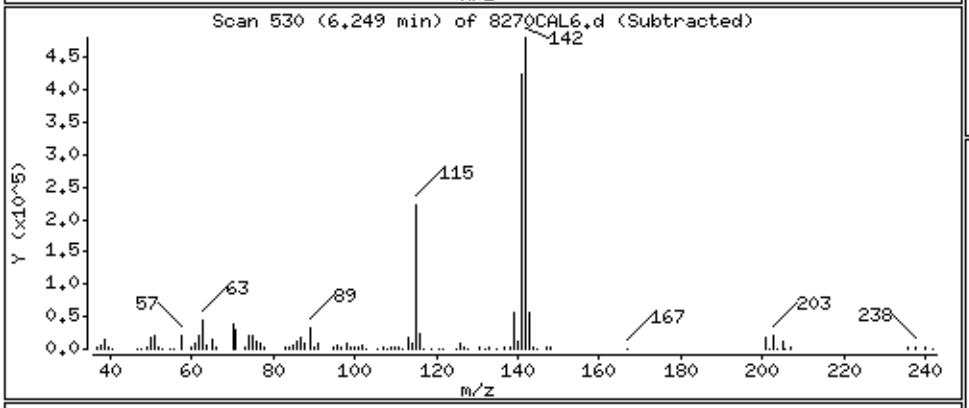
Column diameter: 0.25

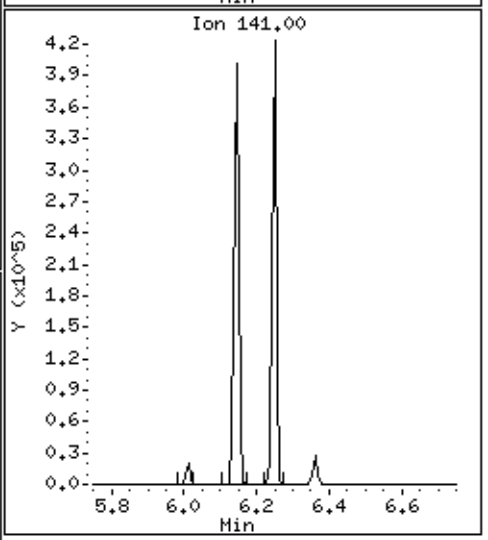
54 1-Methylnaphthalene

Concentration: 72.2 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

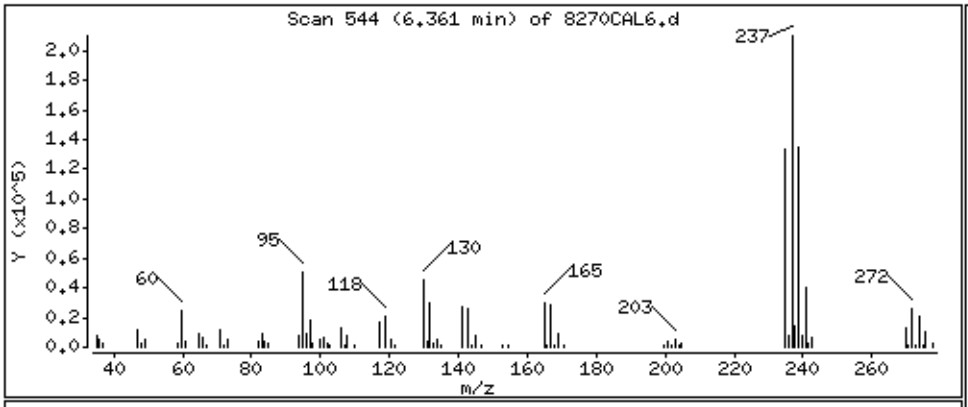
Operator: MJ

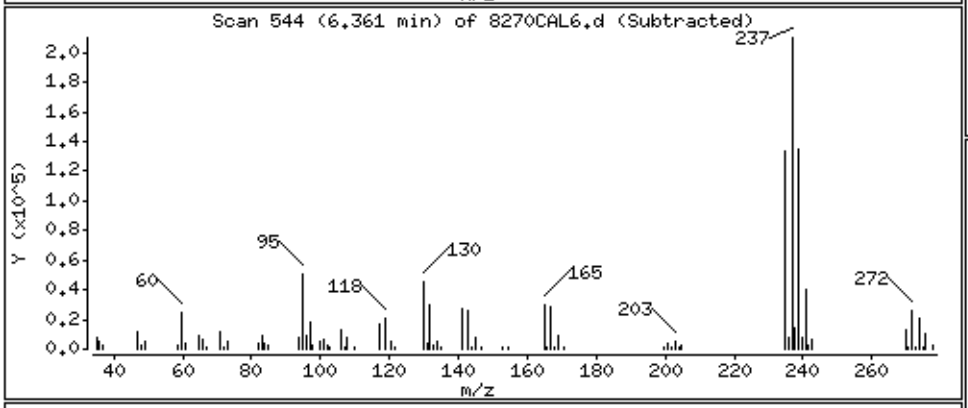
Column phase: HPMS-5

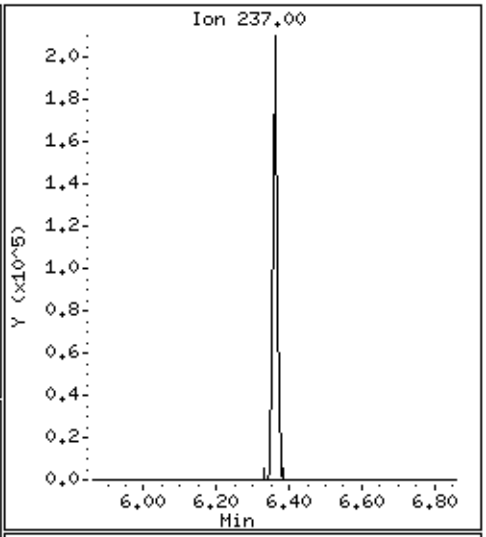
Column diameter: 0.25

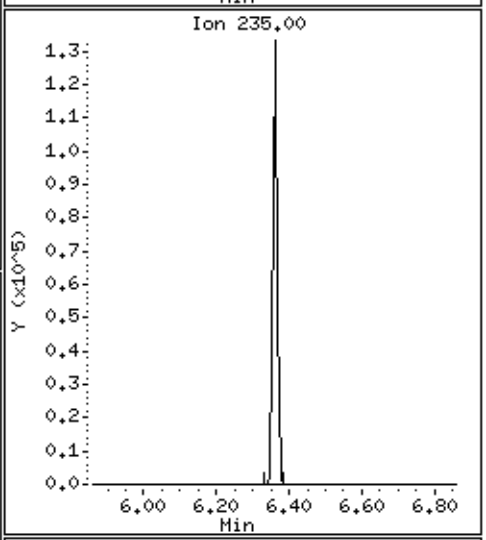
55 Hexachlorocyclopentadiene

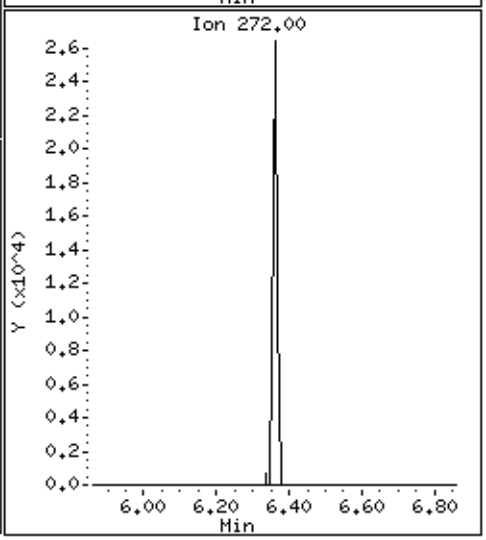
Concentration: 69.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

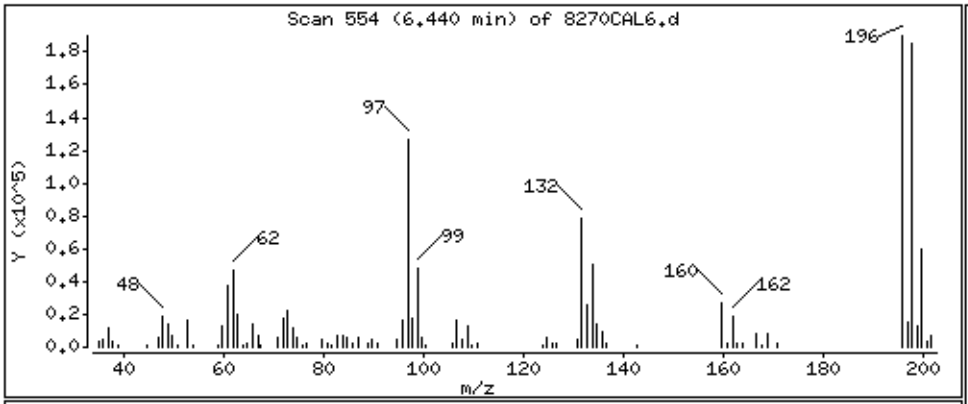
Operator: MJ

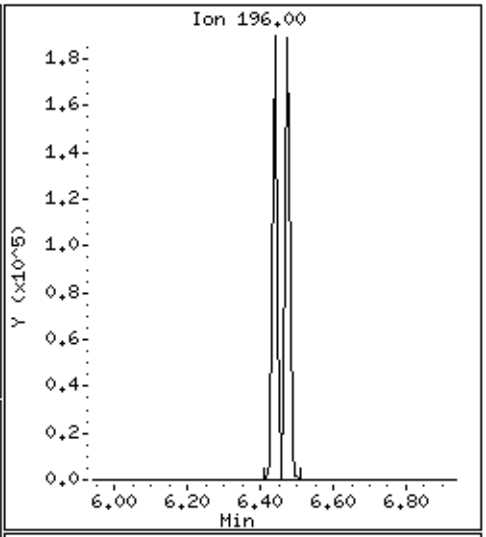
Column phase: HPMS-5

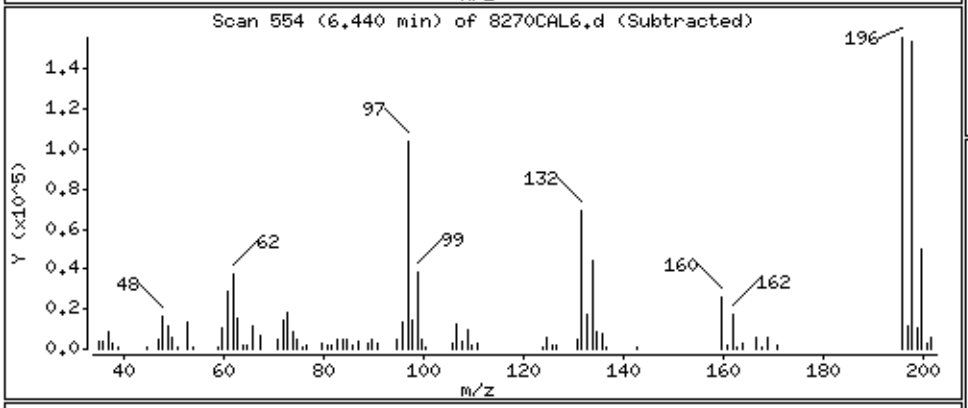
Column diameter: 0.25

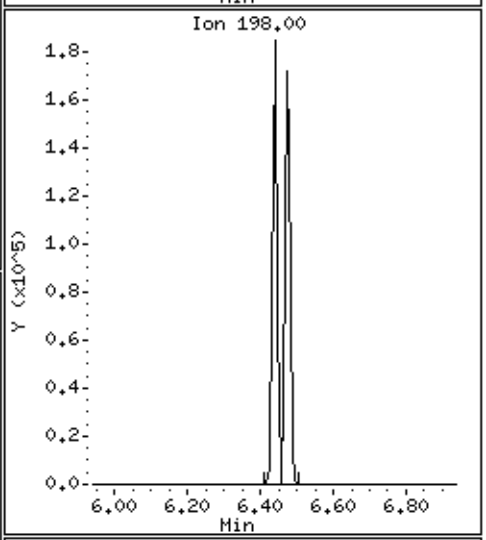
57 2,4,6-Trichlorophenol

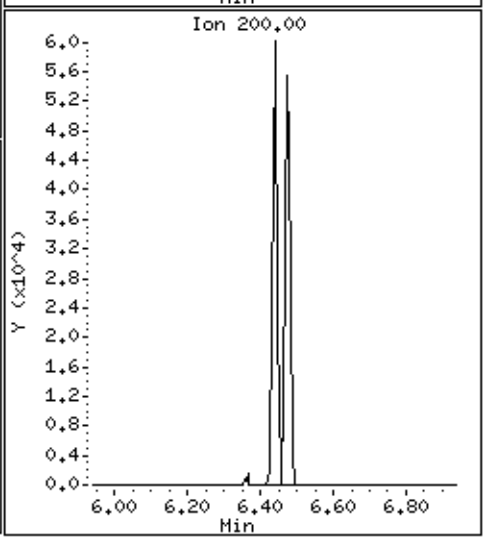
Concentration: 72.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

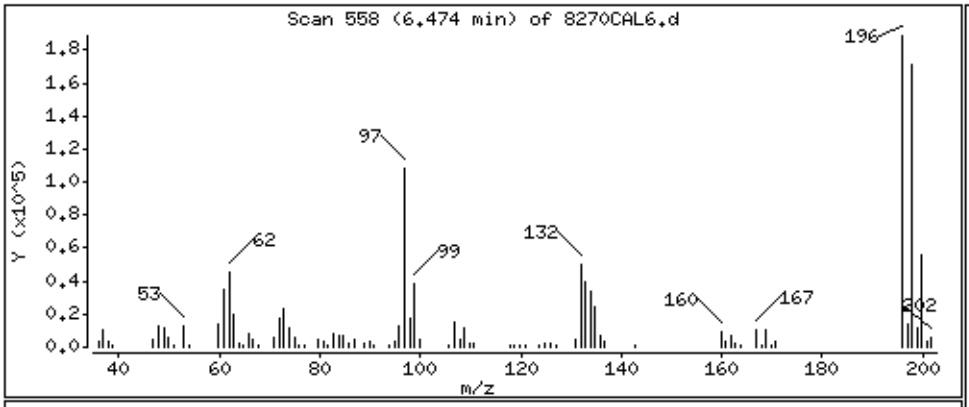
Operator: MJ

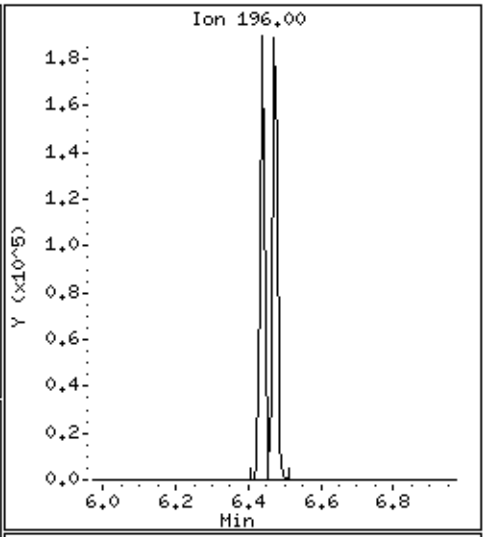
Column phase: HPMS-5

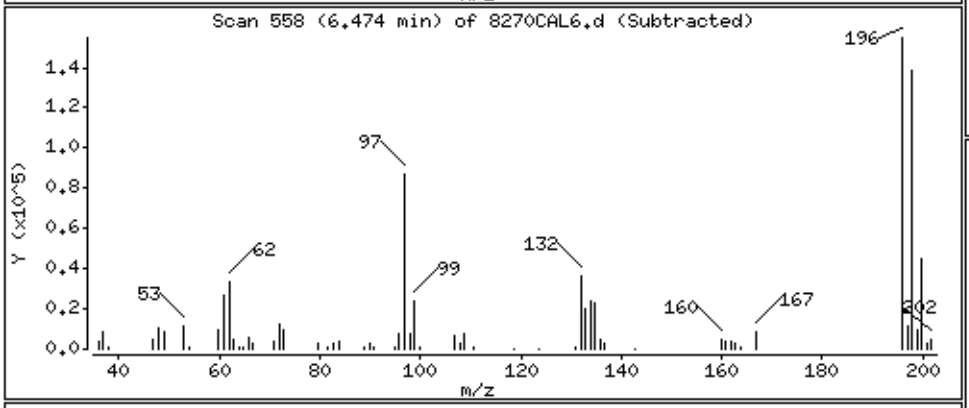
Column diameter: 0.25

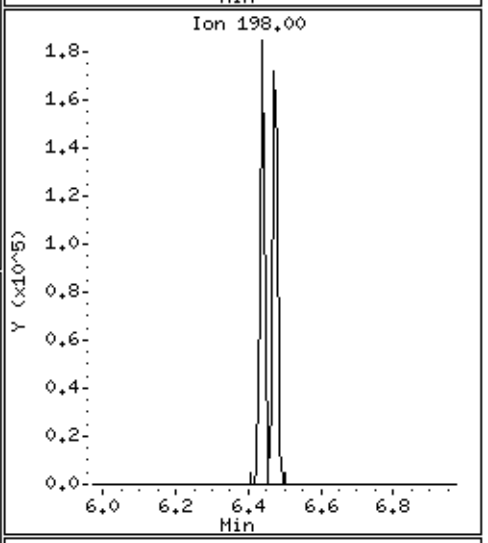
58 2,4,5-Trichlorophenol

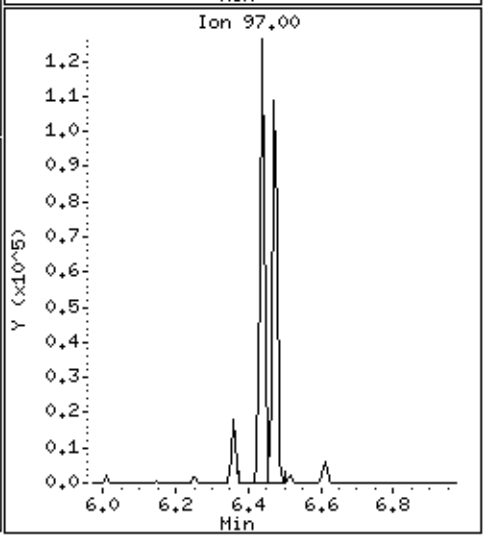
Concentration: 74.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

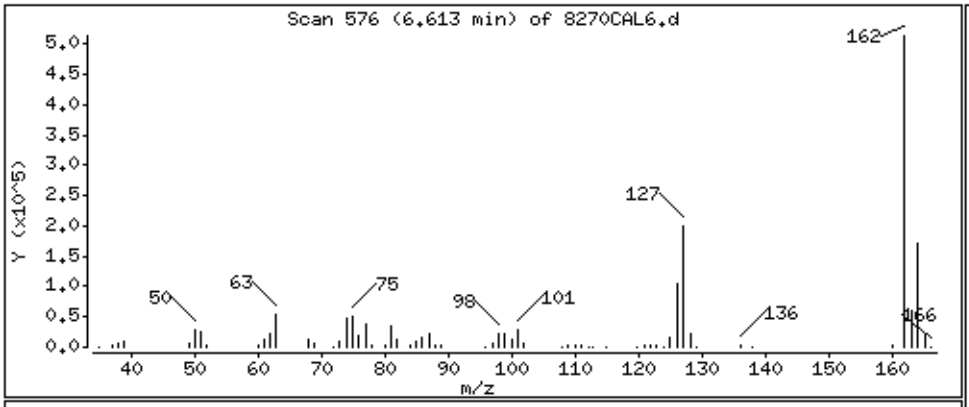
Client ID: 8270CAL6 Instrument: smsd04.i

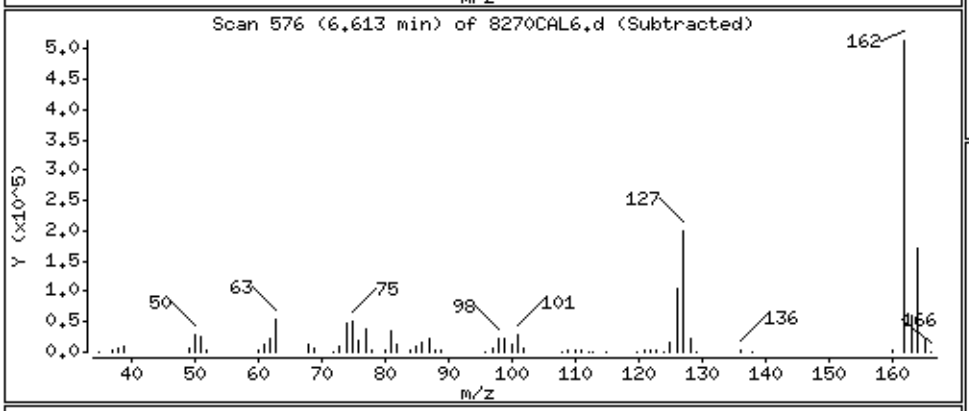
Sample Info: 47764

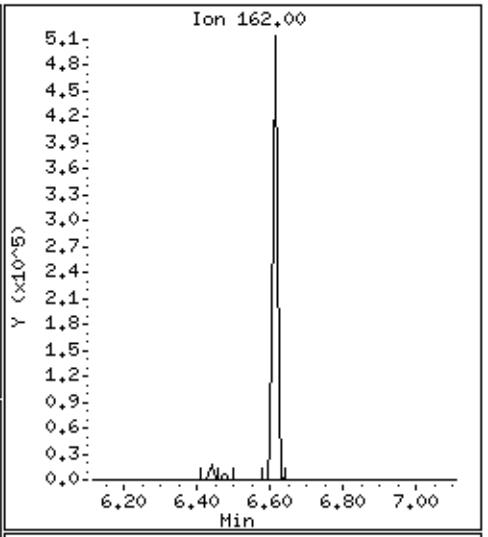
Operator: MJ

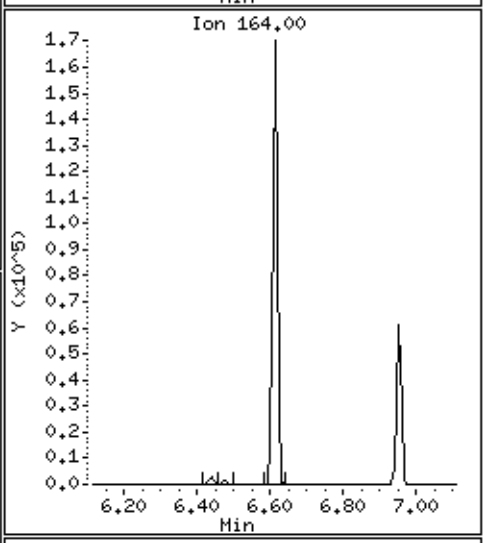
Column phase: HPMS-5 Column diameter: 0.25

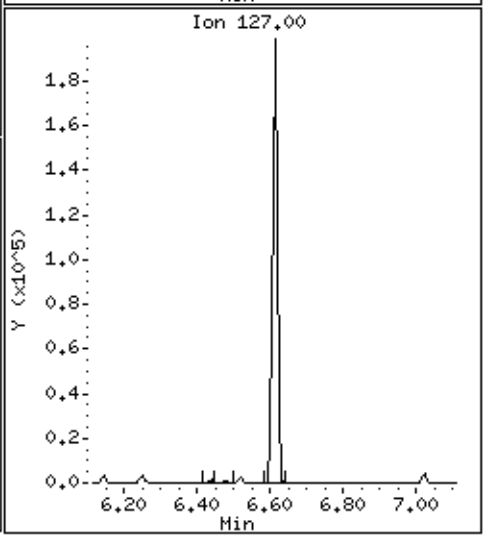
62 2-Chloronaphthalene Concentration: 72.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

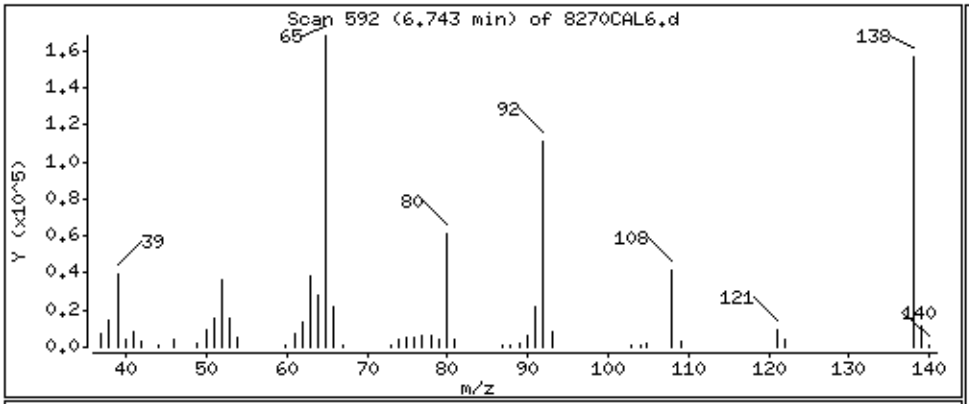
Operator: MJ

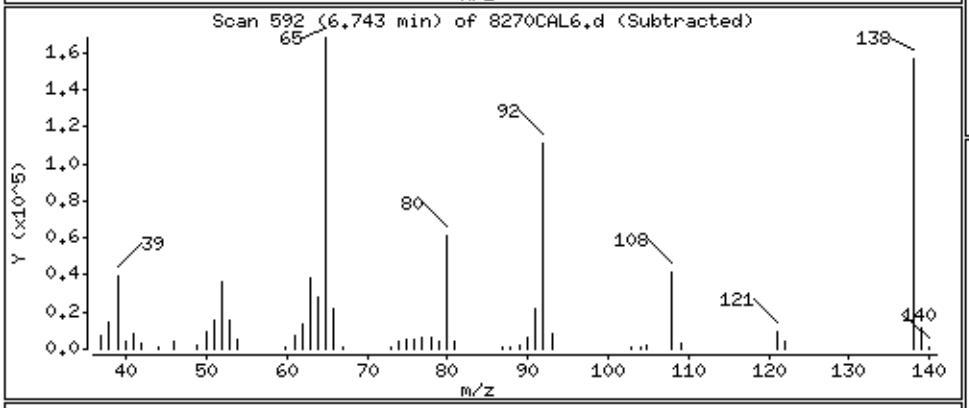
Column phase: HPMS-5

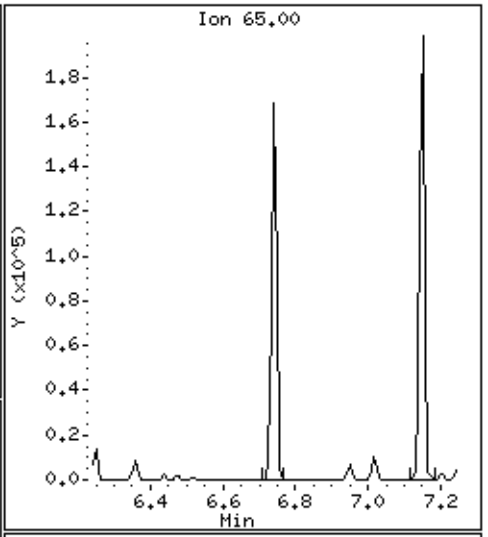
Column diameter: 0.25

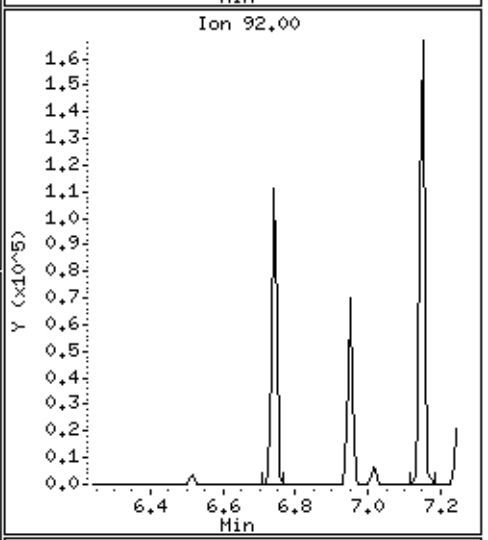
63 2-Nitroaniline

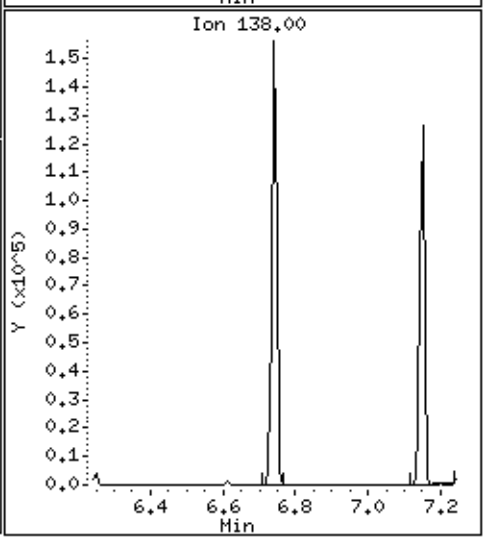
Concentration: 73.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

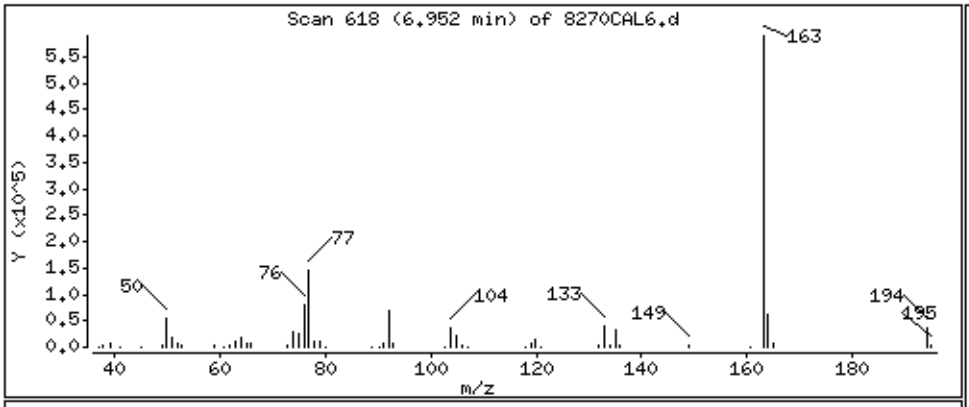
Operator: MJ

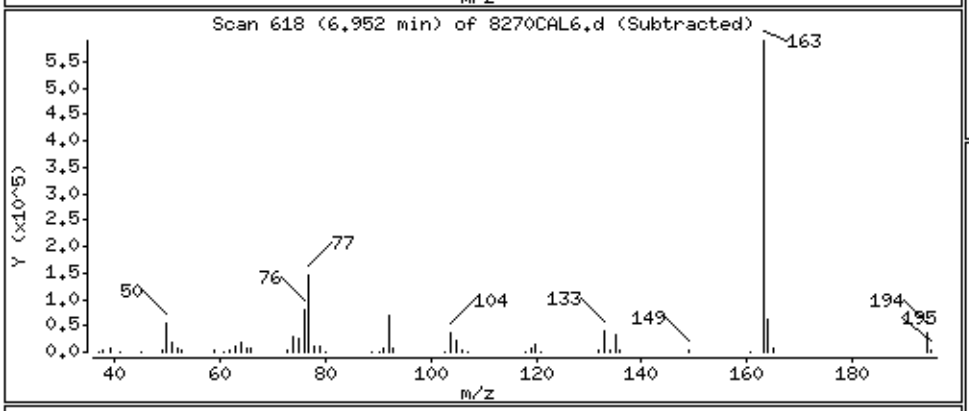
Column phase: HPMS-5

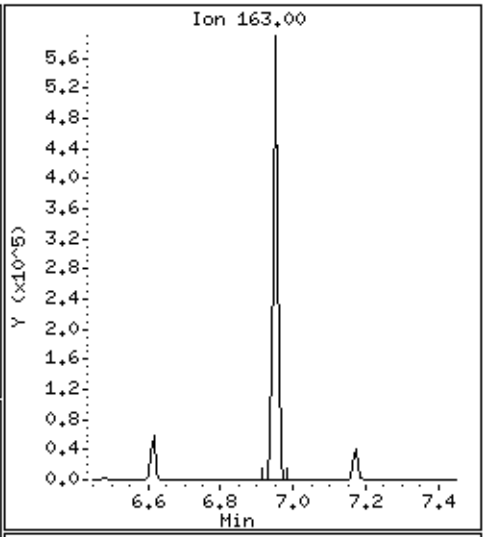
Column diameter: 0.25

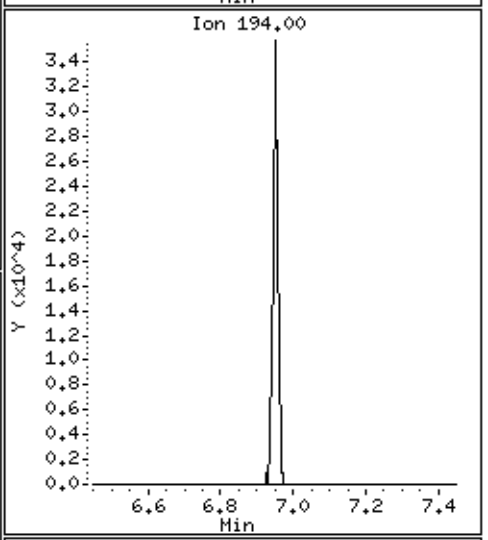
65 Dimethylphthalate

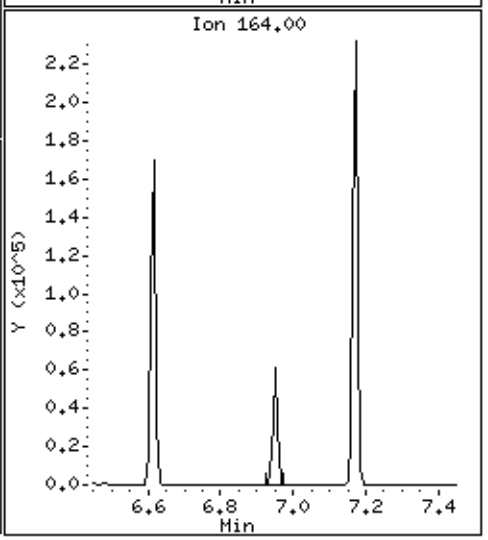
Concentration: 73.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

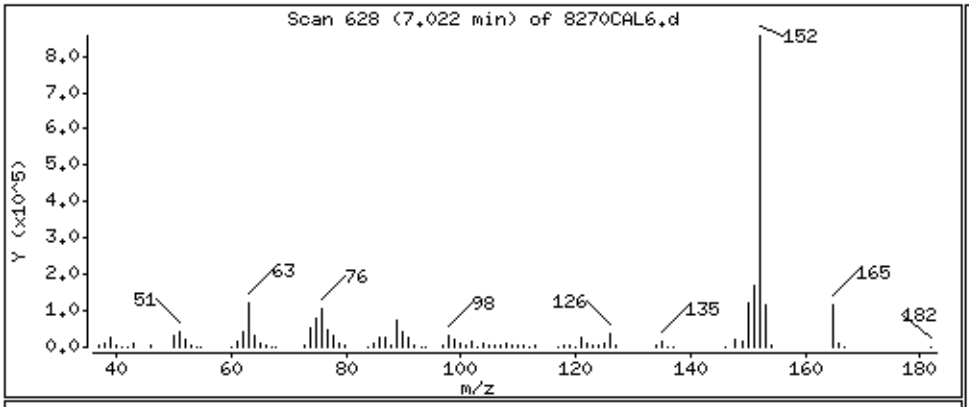
Operator: MJ

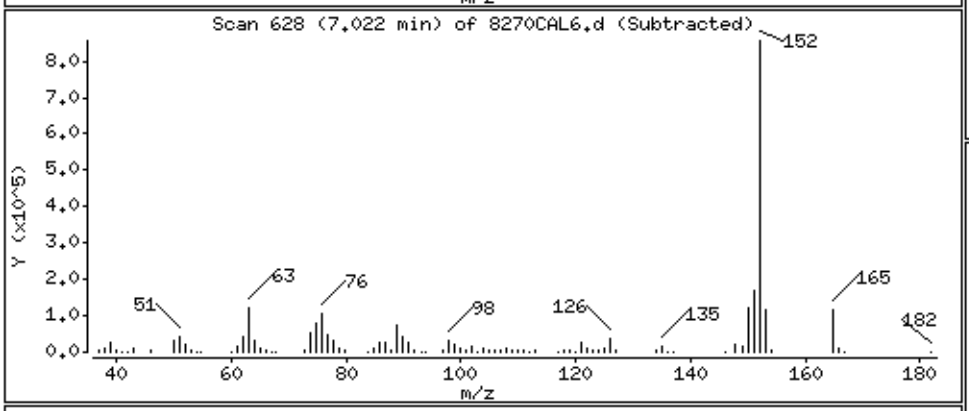
Column phase: HPMS-5

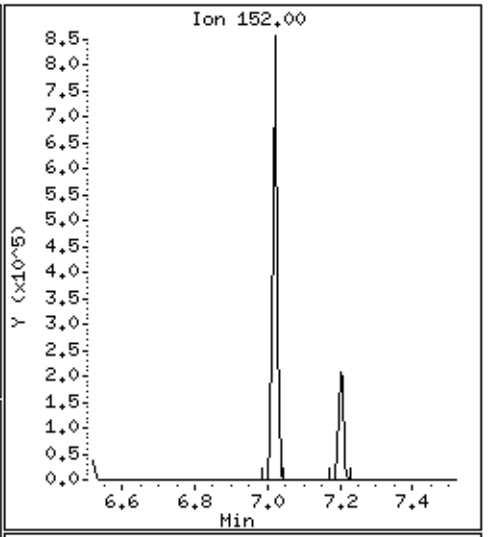
Column diameter: 0.25

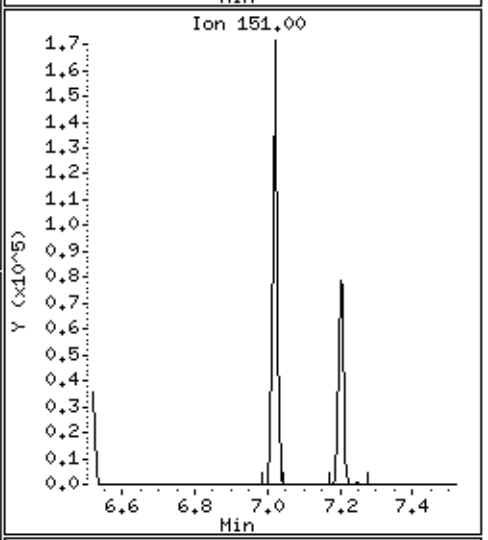
68 Acenaphthylene

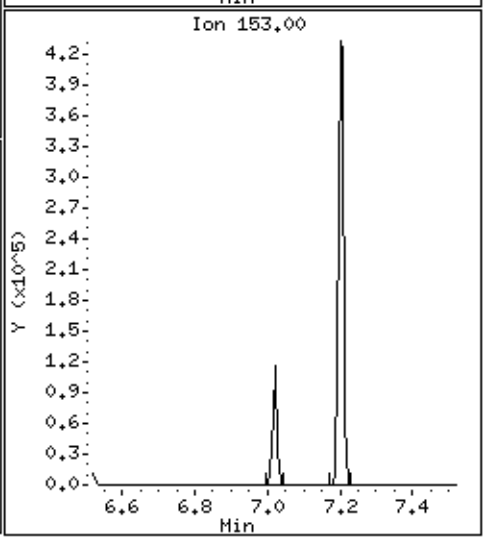
Concentration: 71.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

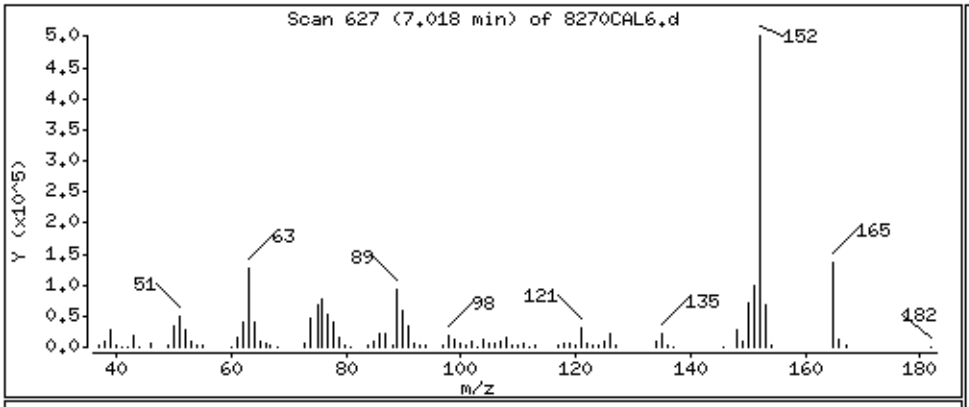
Operator: MJ

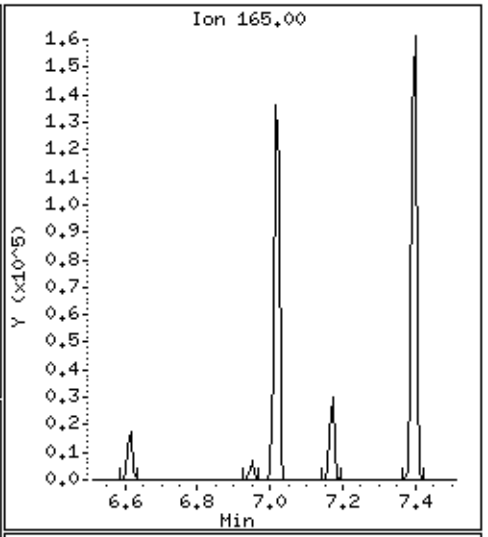
Column phase: HPMS-5

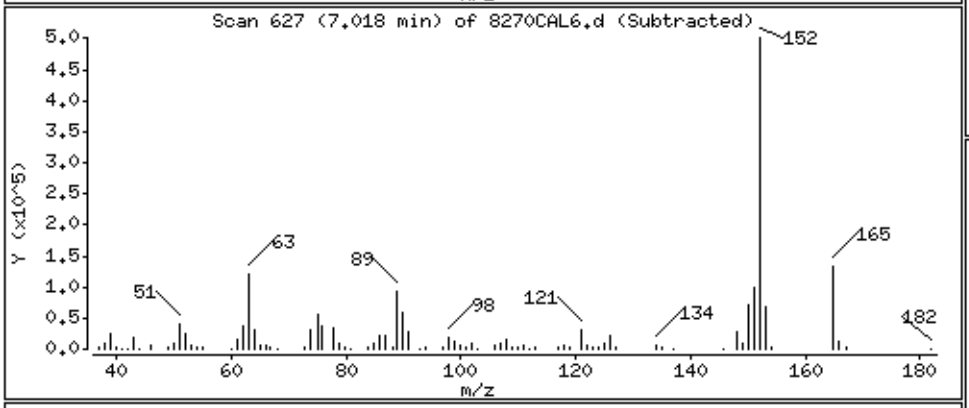
Column diameter: 0.25

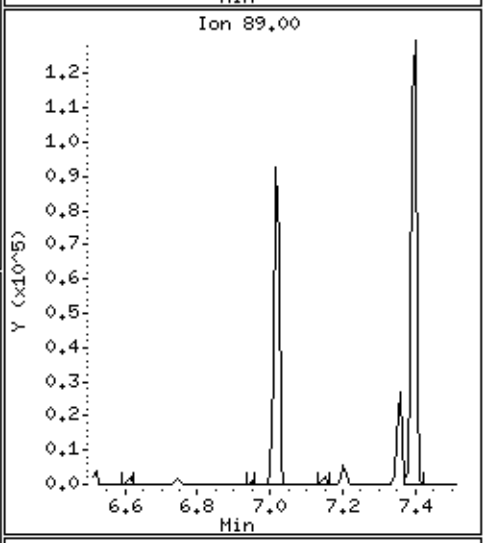
67 2,6-Dinitrotoluene

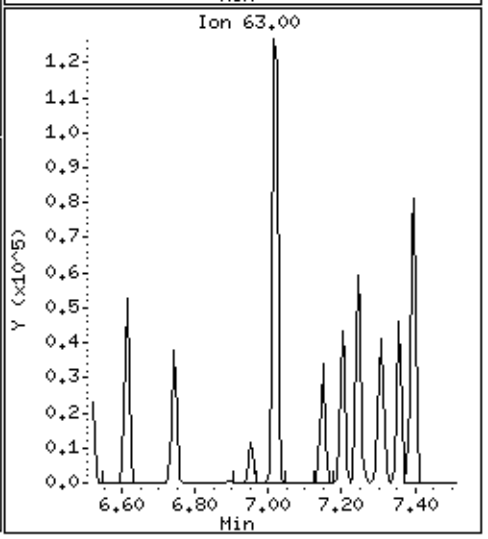
Concentration: 72.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

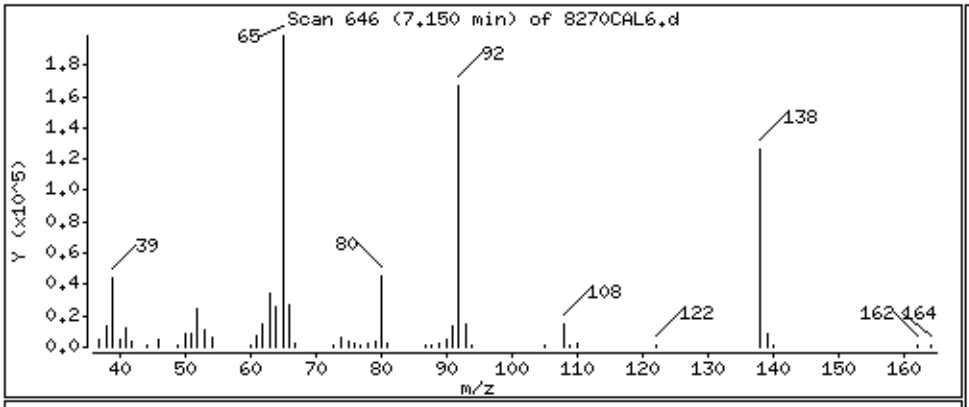
Operator: MJ

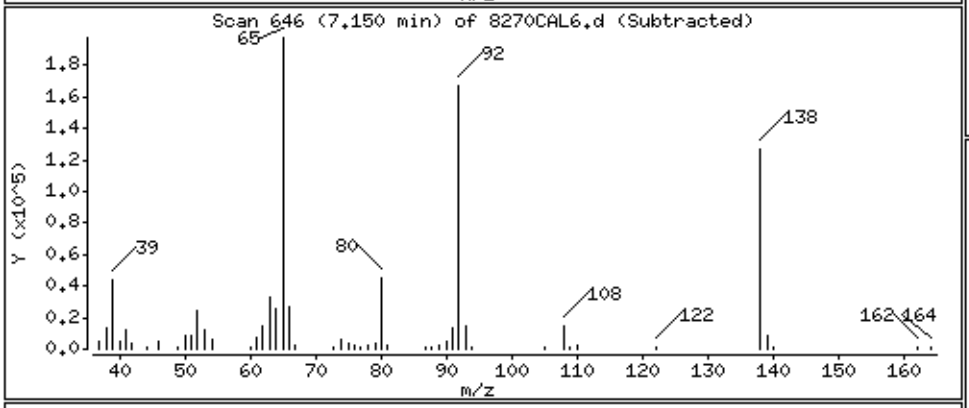
Column phase: HPMS-5

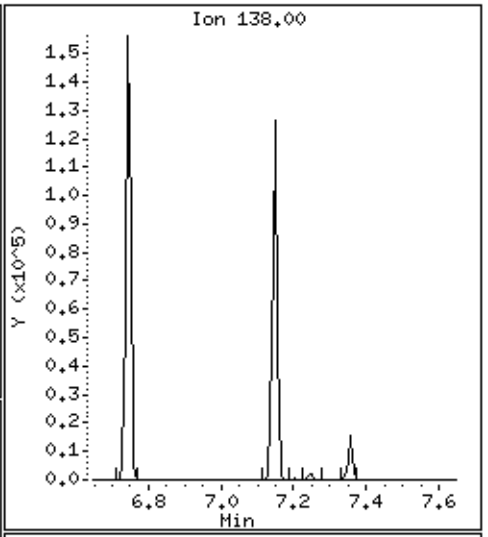
Column diameter: 0.25

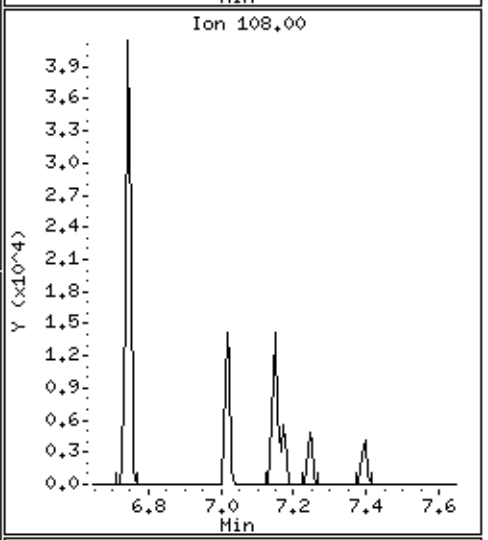
69 3-Nitroaniline

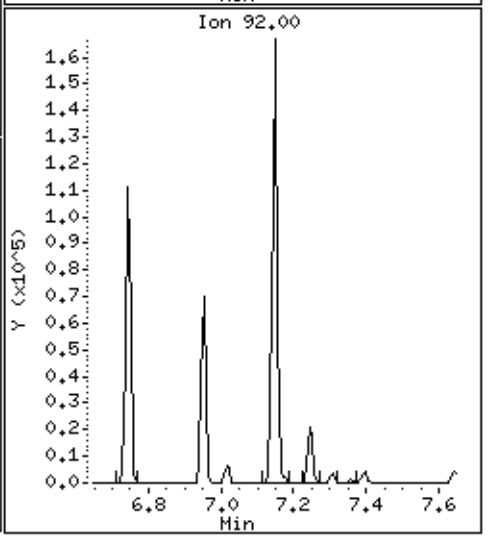
Concentration: 71.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

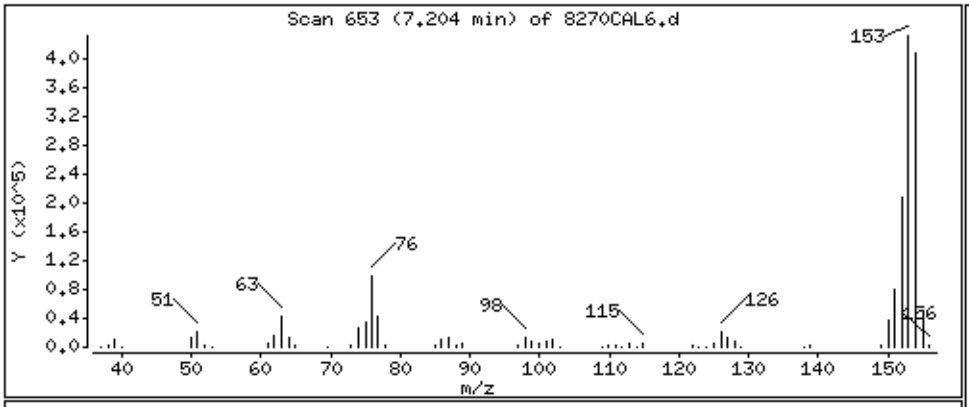
Operator: MJ

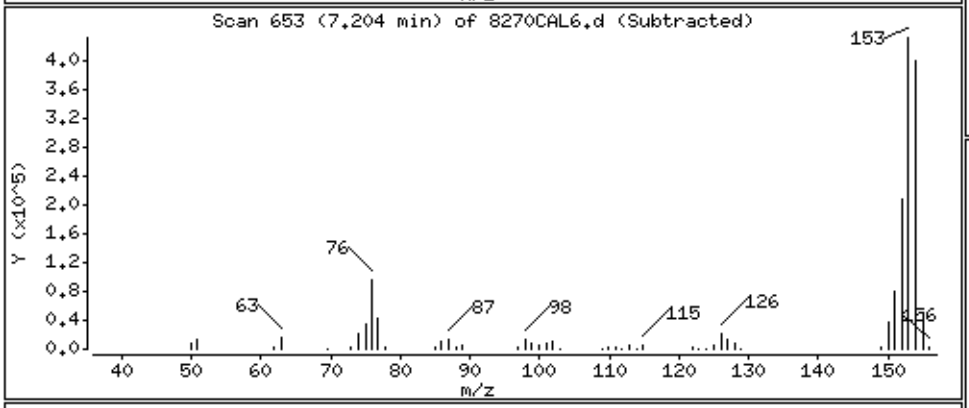
Column phase: HPMS-5

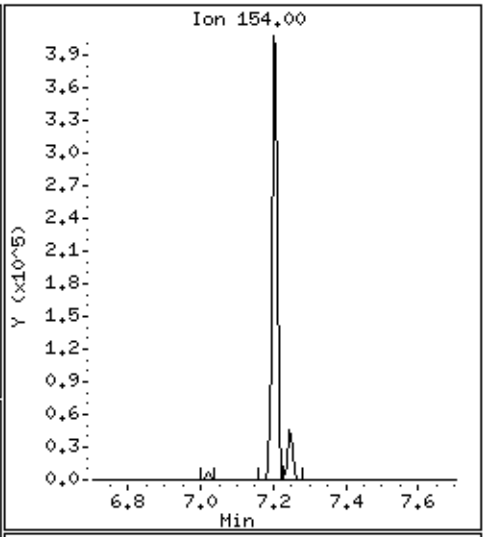
Column diameter: 0.25

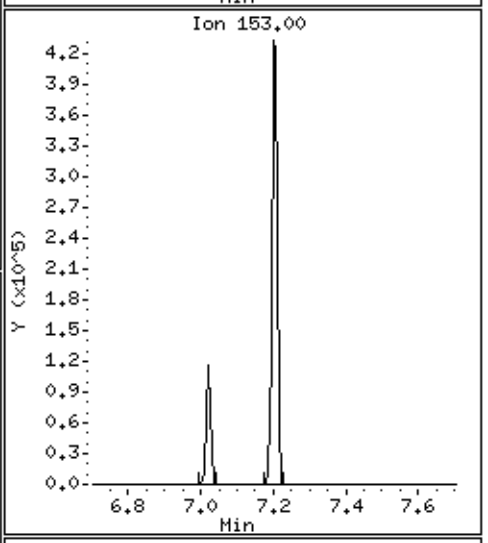
71 Acenaphthene

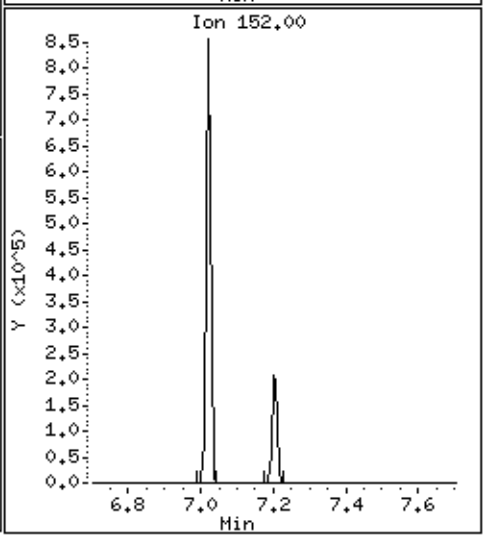
Concentration: 72.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

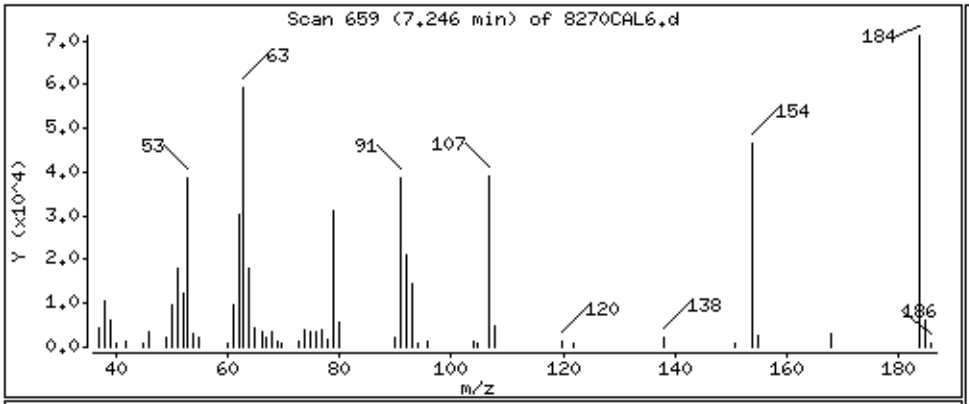
Operator: MJ

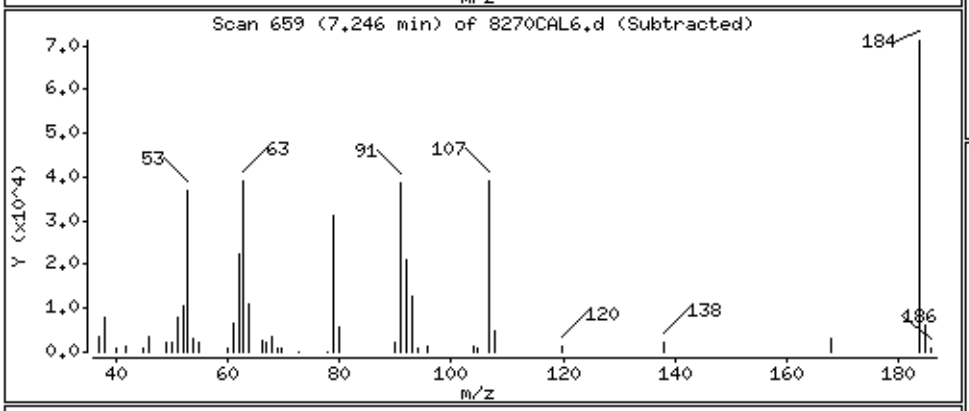
Column phase: HPMS-5

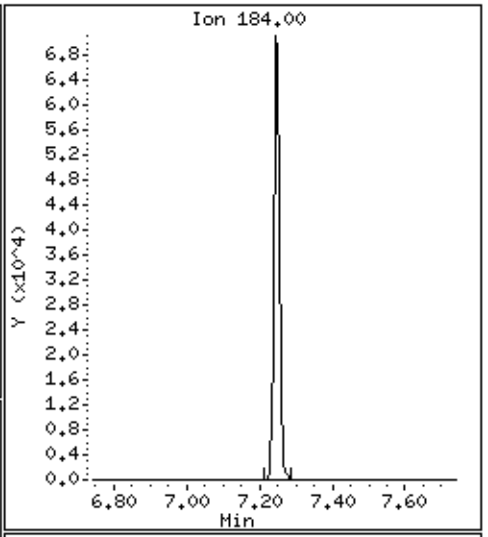
Column diameter: 0.25

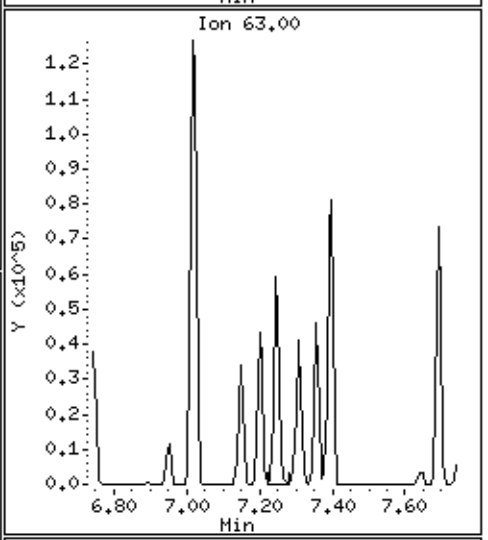
72 2,4-Dinitrophenol

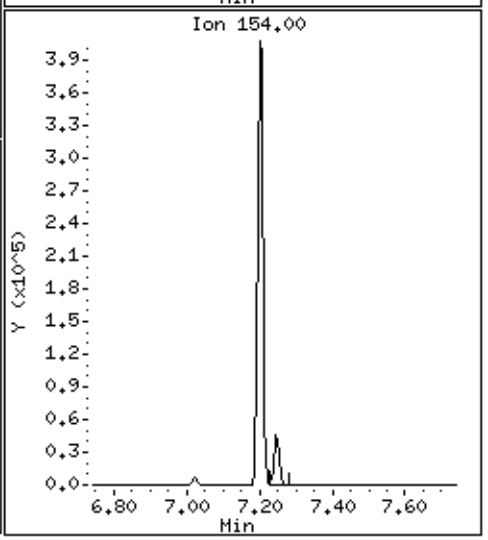
Concentration: 69.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

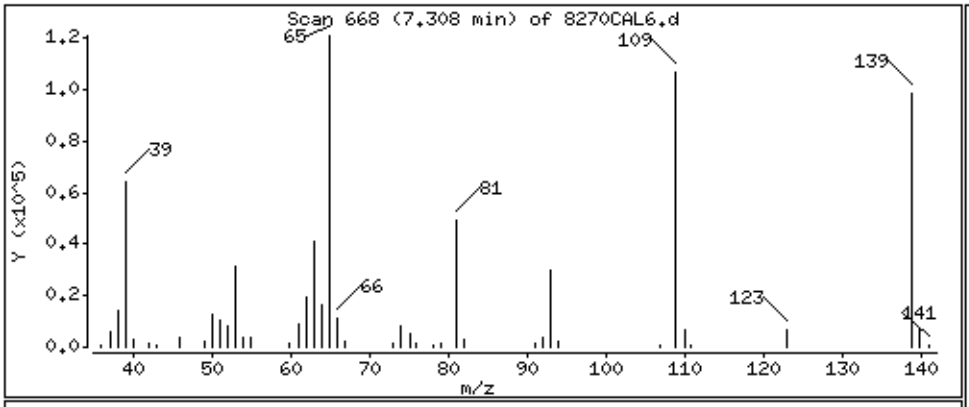
Operator: MJ

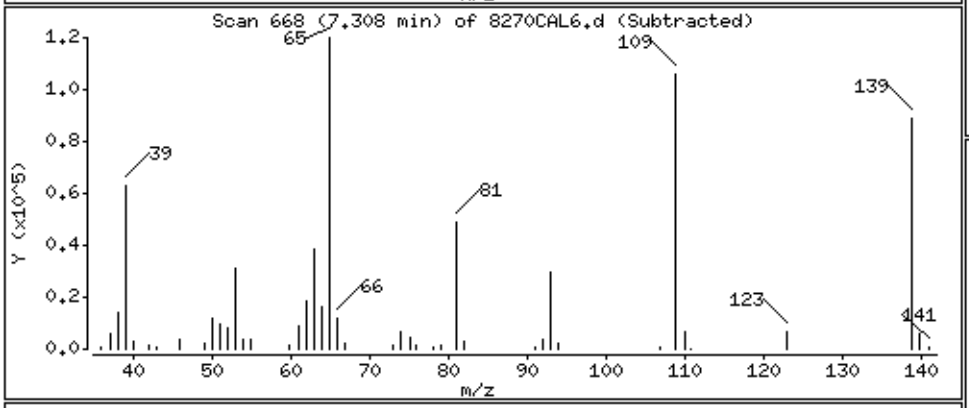
Column phase: HPMS-5

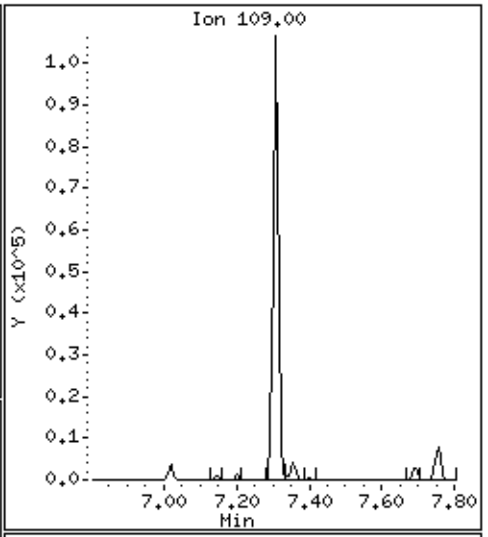
Column diameter: 0.25

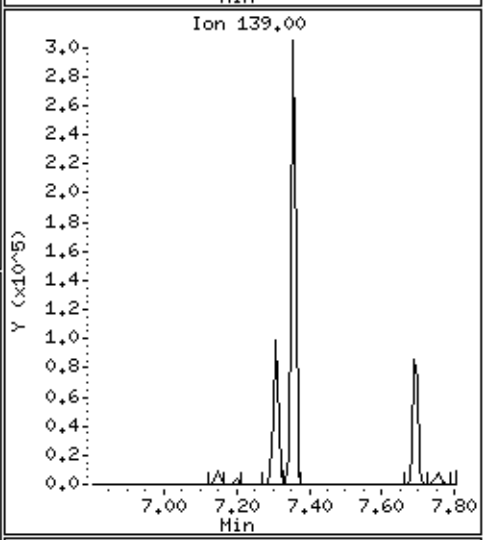
74 4-Nitrophenol

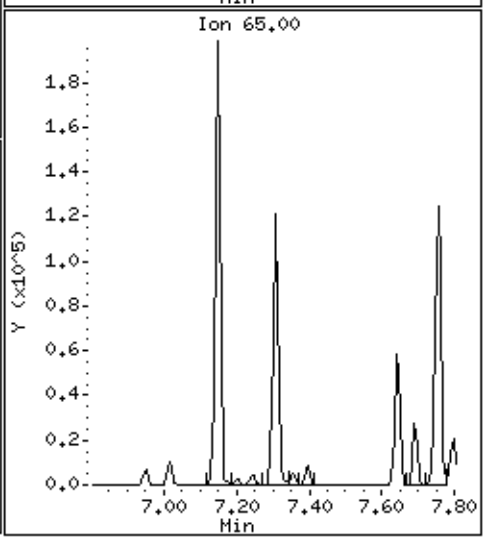
Concentration: 73.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

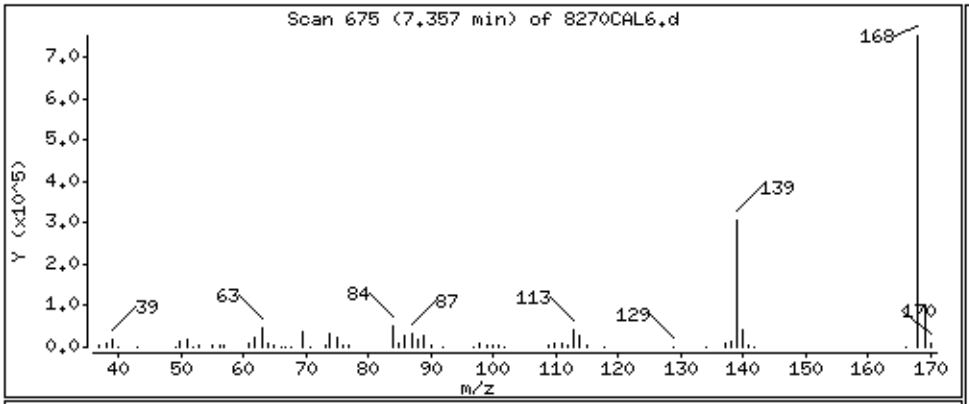
Operator: MJ

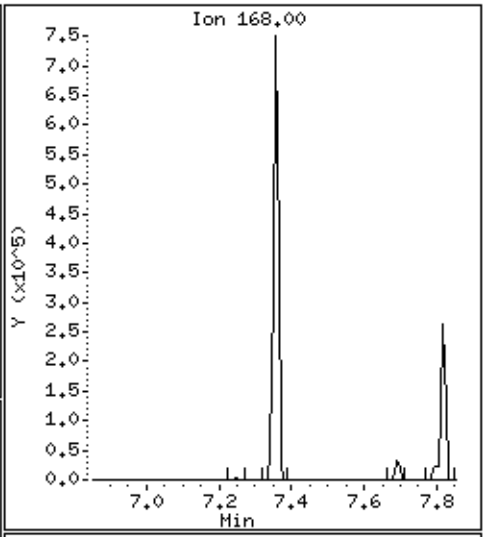
Column phase: HPMS-5

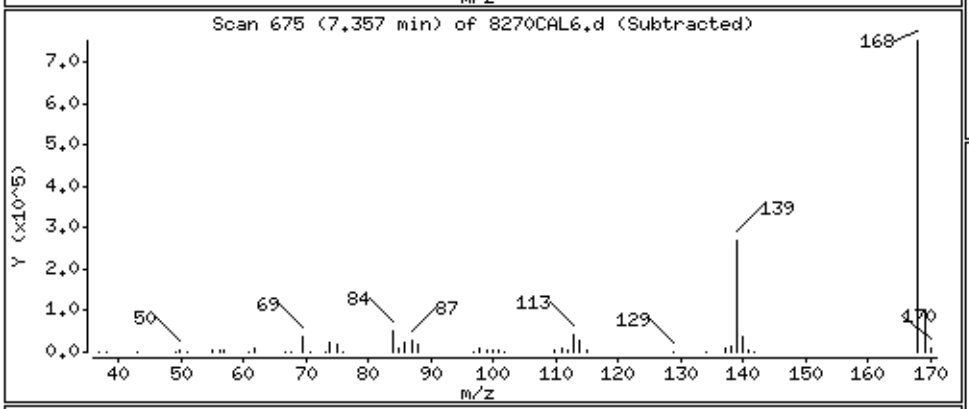
Column diameter: 0.25

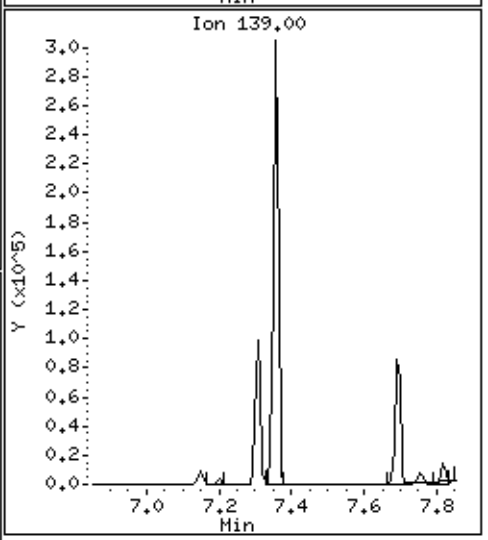
75 Dibenzofuran

Concentration: 72.0 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

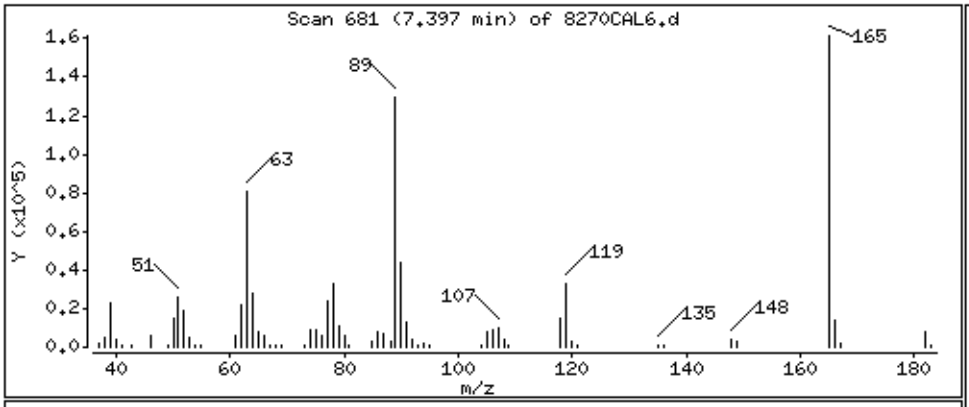
Operator: MJ

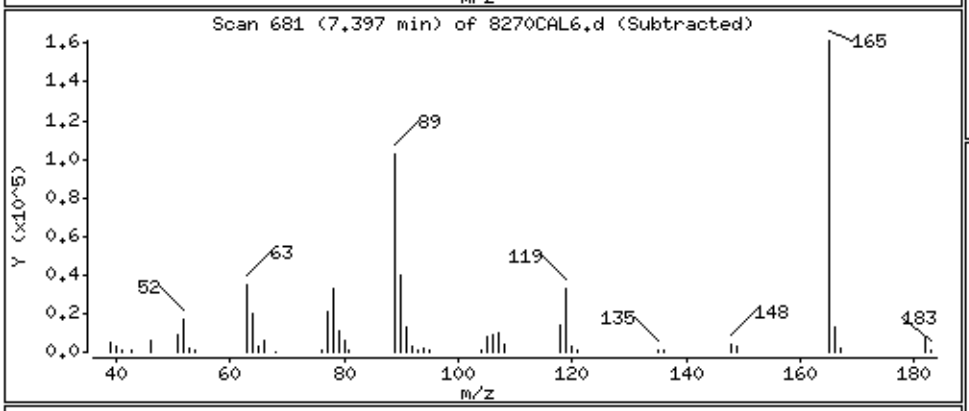
Column phase: HPMS-5

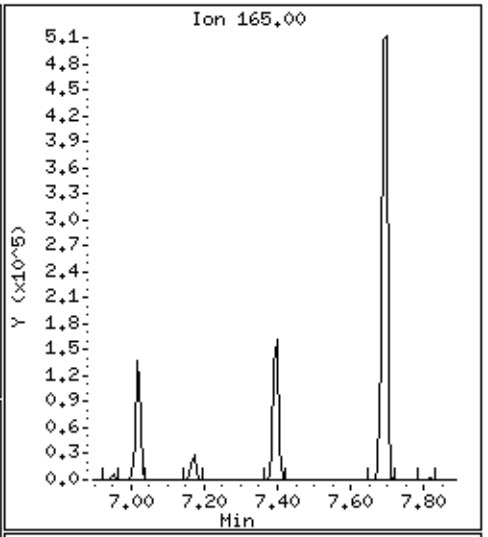
Column diameter: 0.25

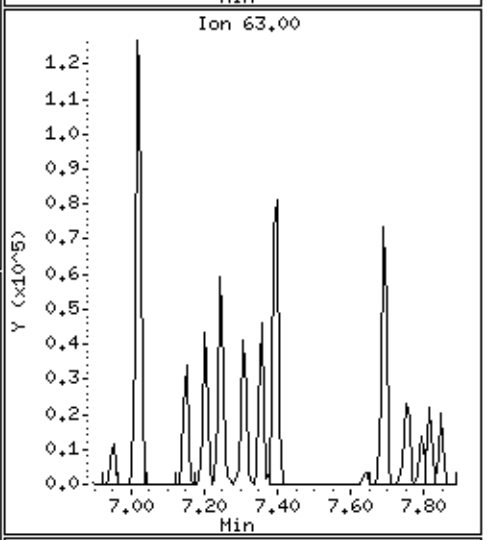
76 2,4-Dinitrotoluene

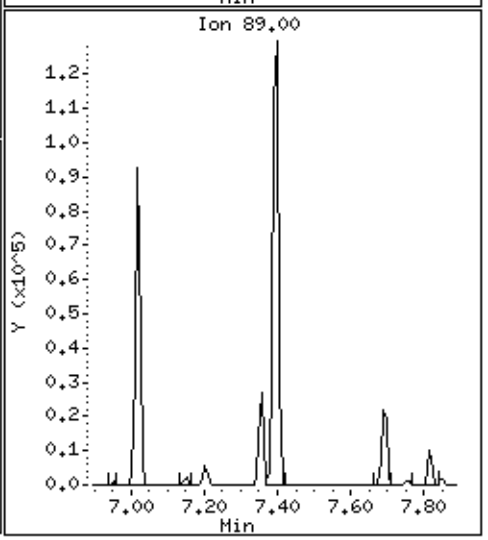
Concentration: 71.8 ug/kg











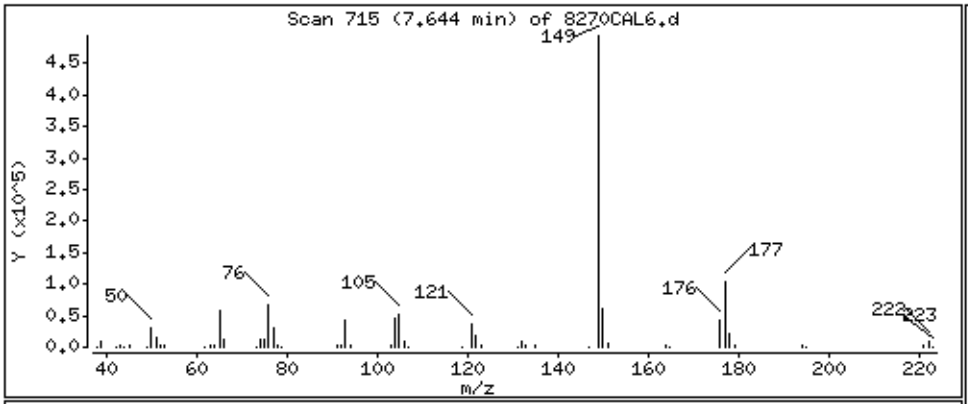
Date : 14-NOV-2012 23:01

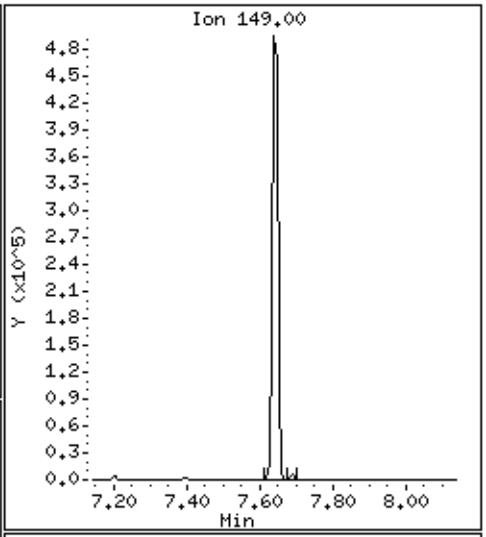
Client ID: 8270CAL6 Instrument: smsd04.i

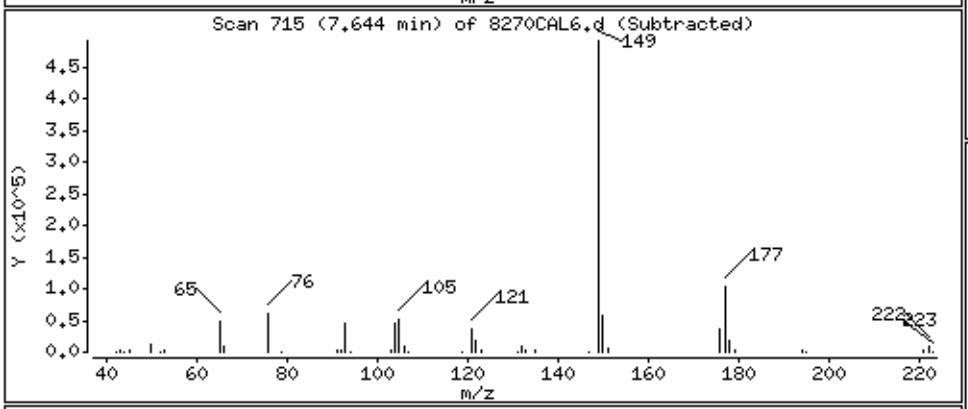
Sample Info: 47764 Operator: MJ

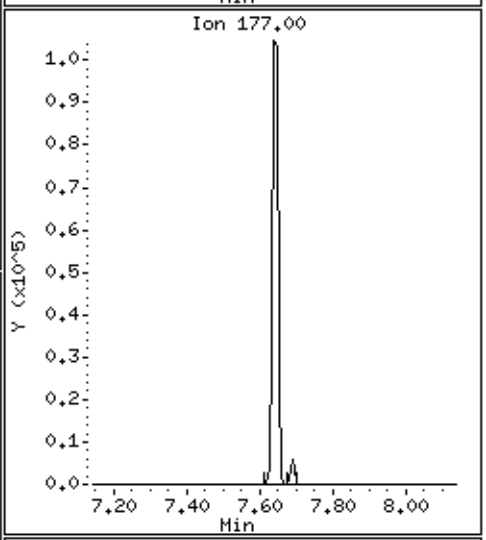
Column phase: HPMS-5 Column diameter: 0.25

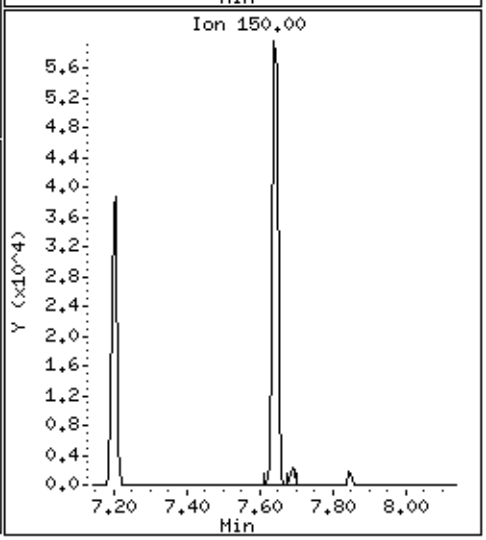
80 Diethylphthalate Concentration: 71.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

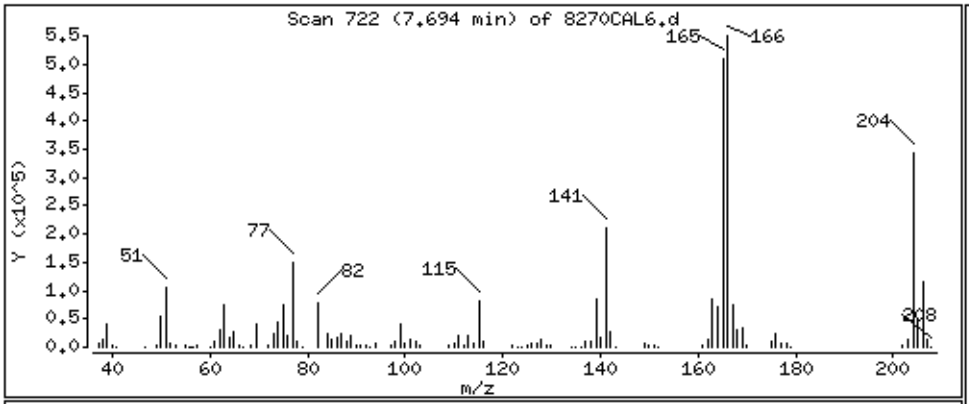
Operator: MJ

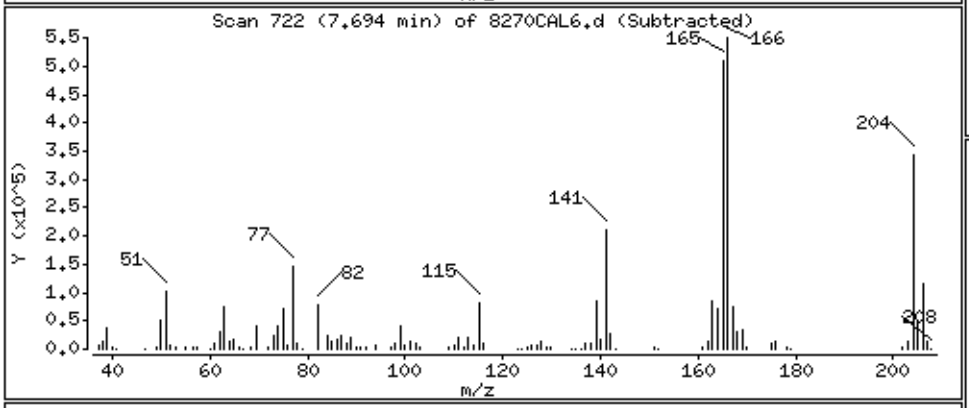
Column phase: HPMS-5

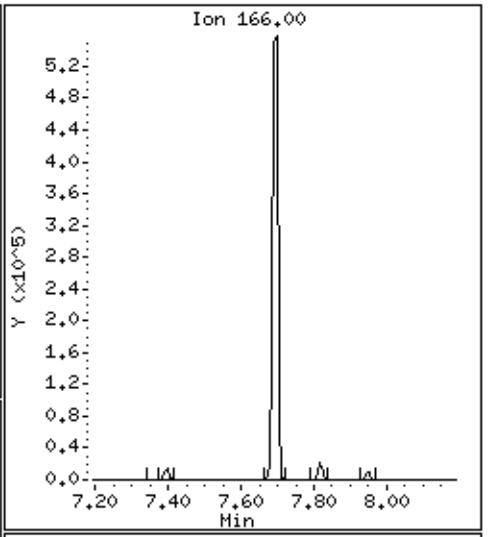
Column diameter: 0.25

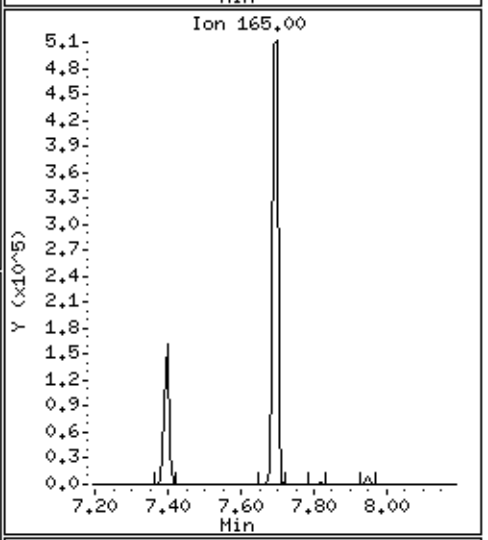
81 Fluorene

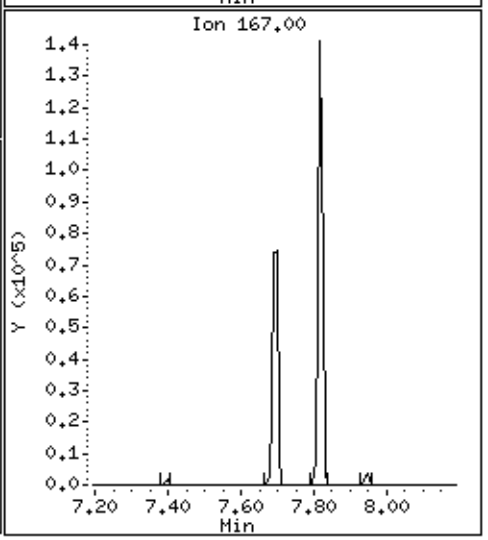
Concentration: 71.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

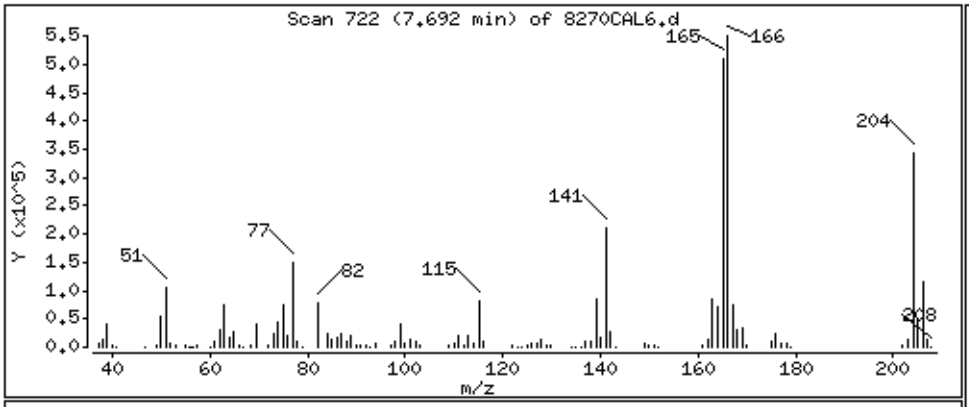
Operator: MJ

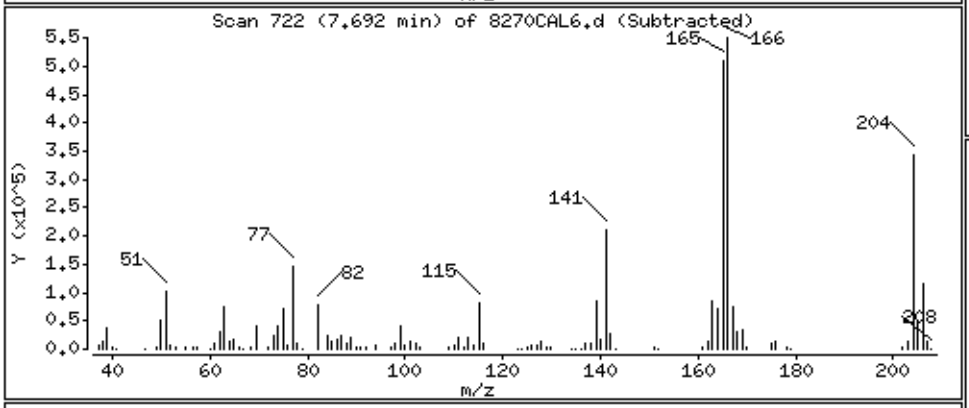
Column phase: HPMS-5

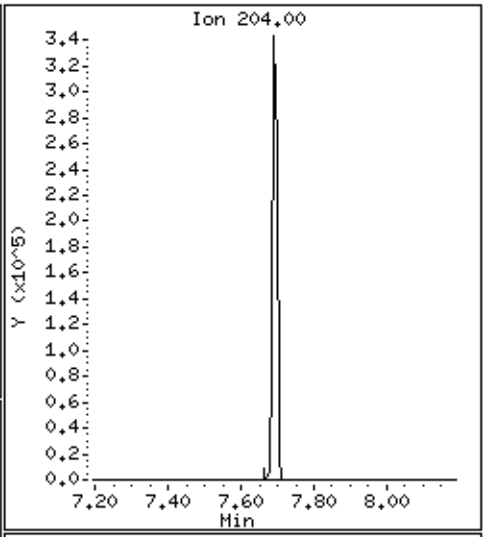
Column diameter: 0.25

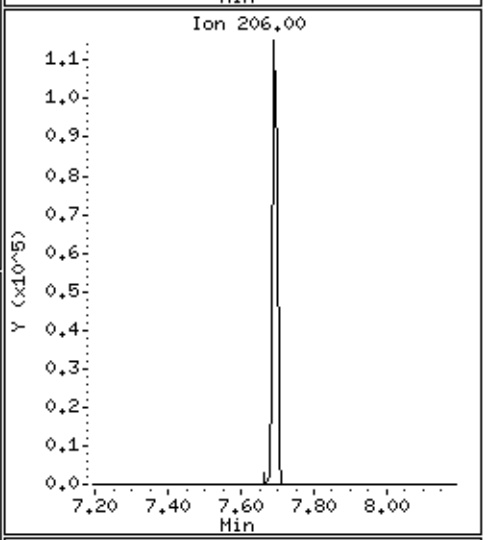
82 4-Chlorophenyl-phenylether

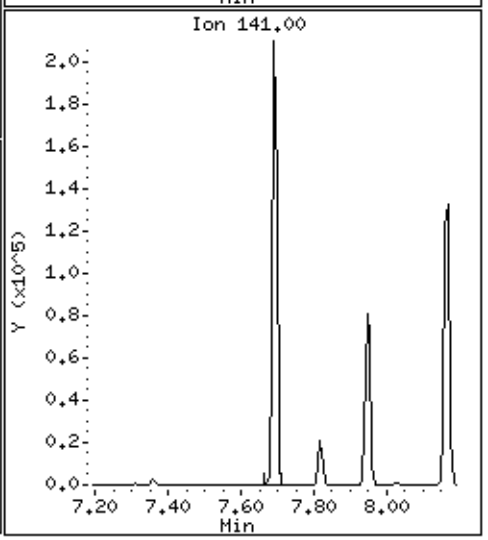
Concentration: 70.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

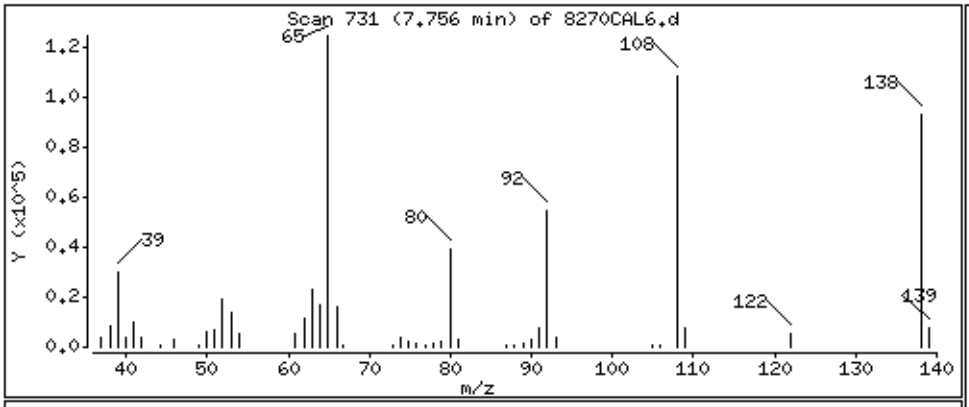
Operator: MJ

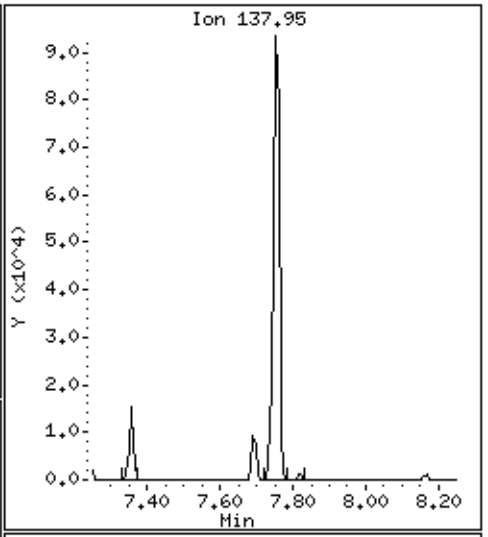
Column phase: HPMS-5

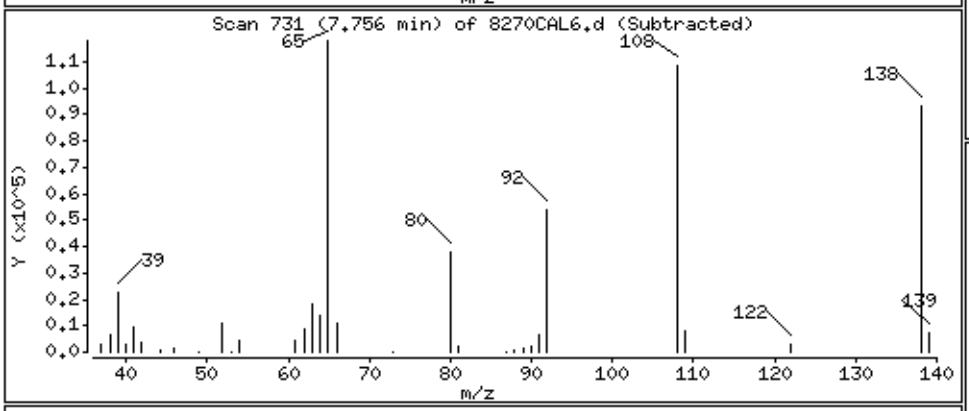
Column diameter: 0.25

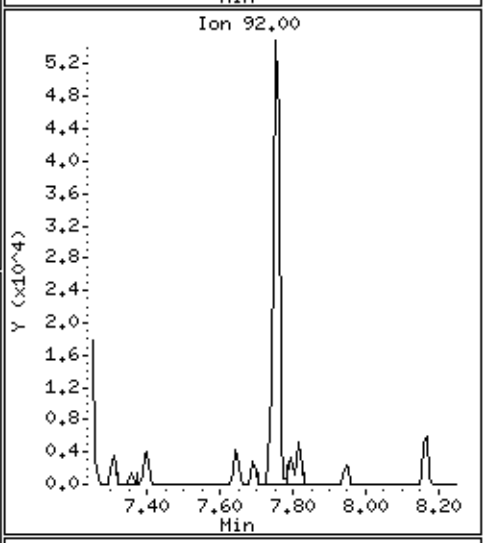
84 4-Nitroaniline

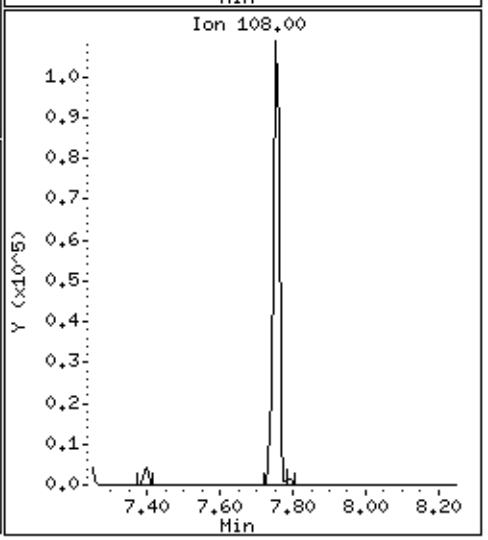
Concentration: 73.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

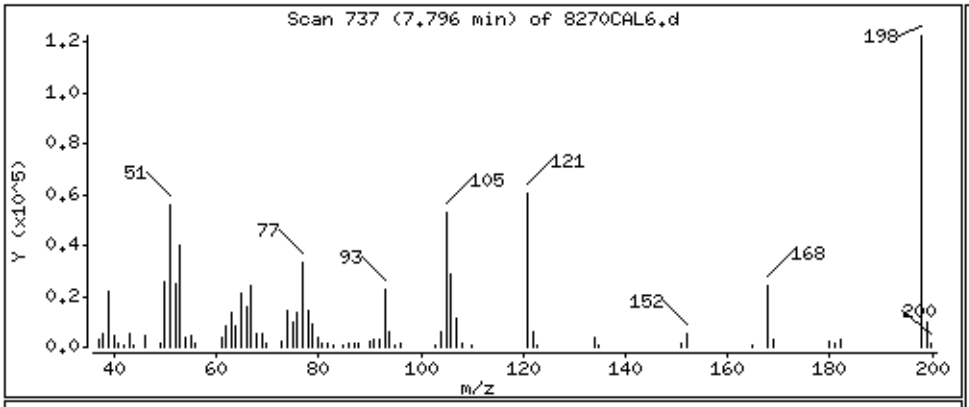
Operator: MJ

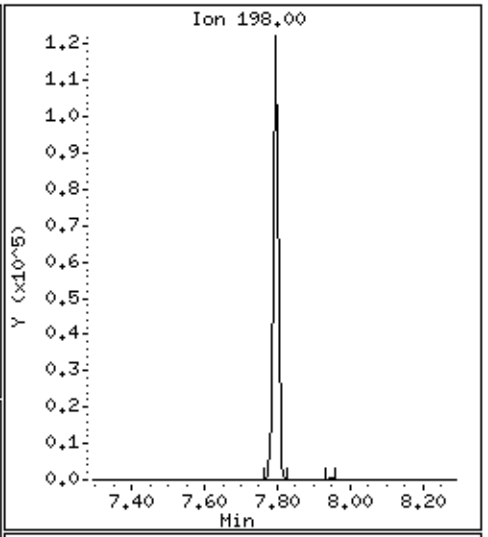
Column phase: HPMS-5

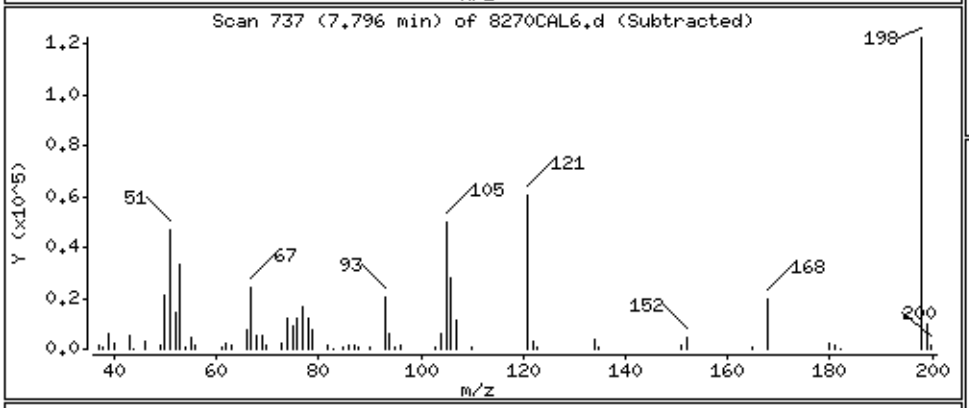
Column diameter: 0.25

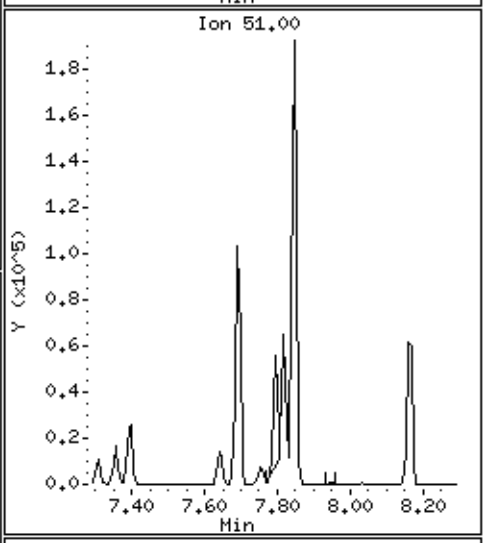
85 4,6-Dinitro-2-methylphenol

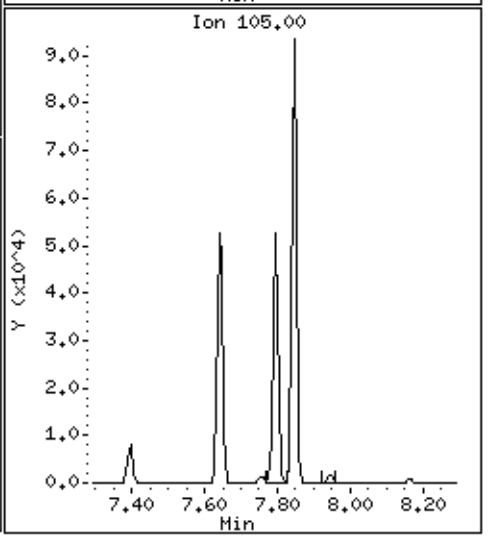
Concentration: 73.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

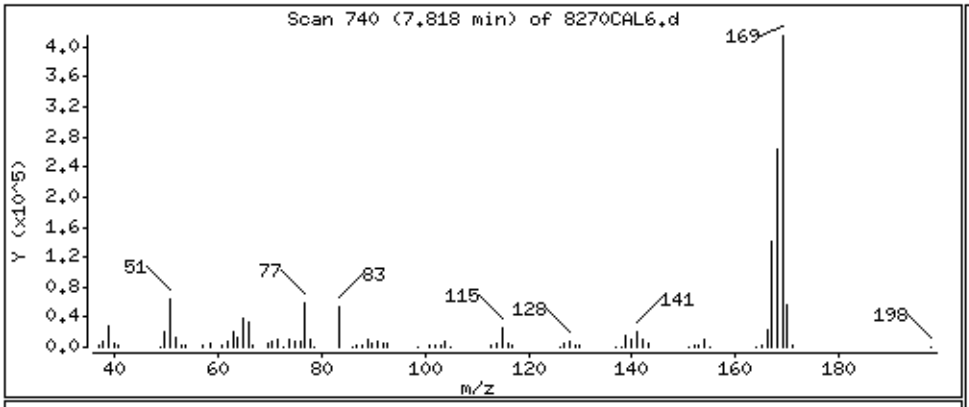
Operator: MJ

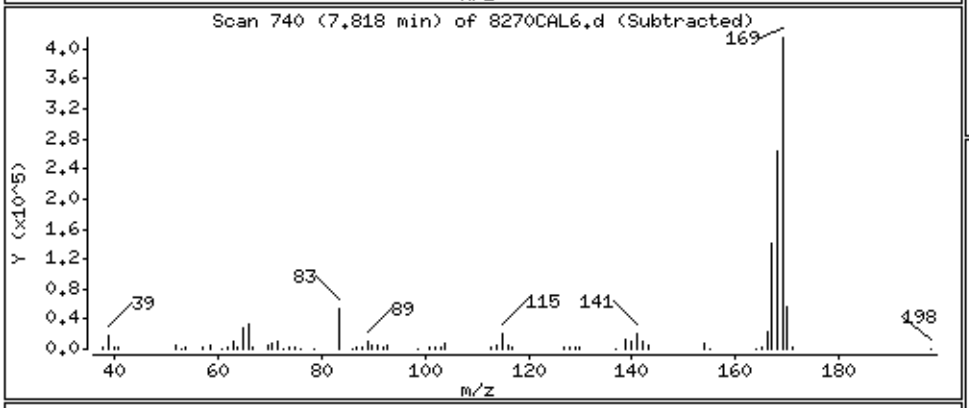
Column phase: HPMS-5

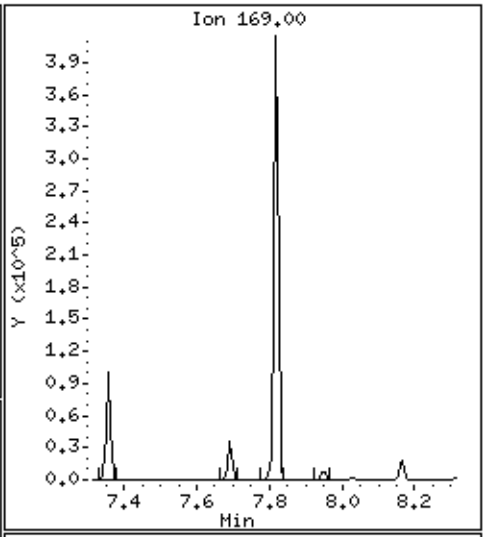
Column diameter: 0.25

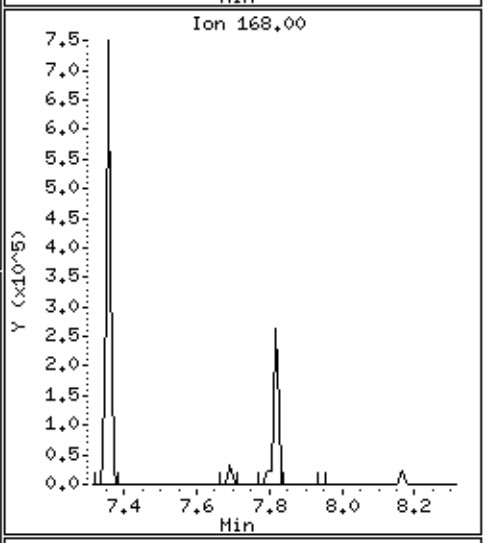
86 N-Nitrosodiphenylamine

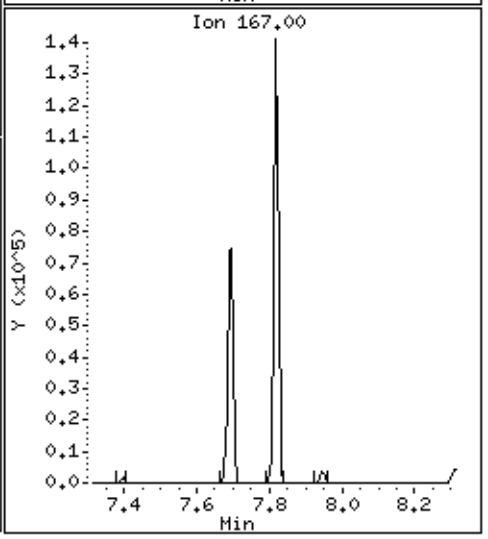
Concentration: 73.4 ug/kg











Date : 14-NOV-2012 23:01

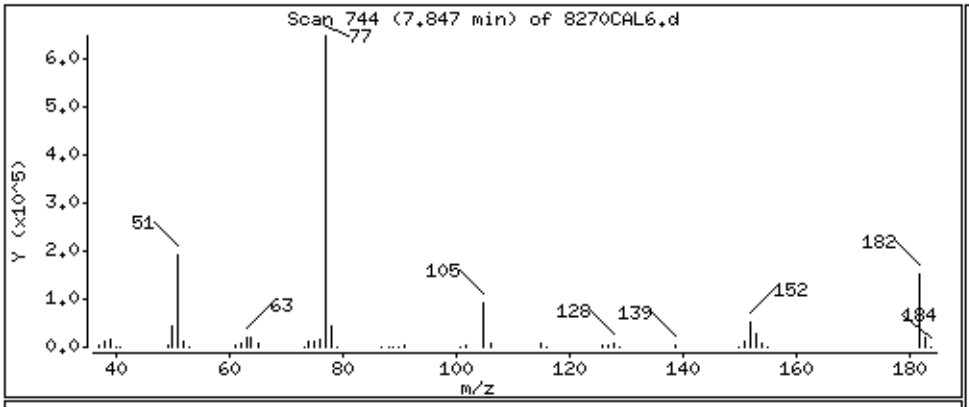
Client ID: 8270CAL6 Instrument: smsd04.i

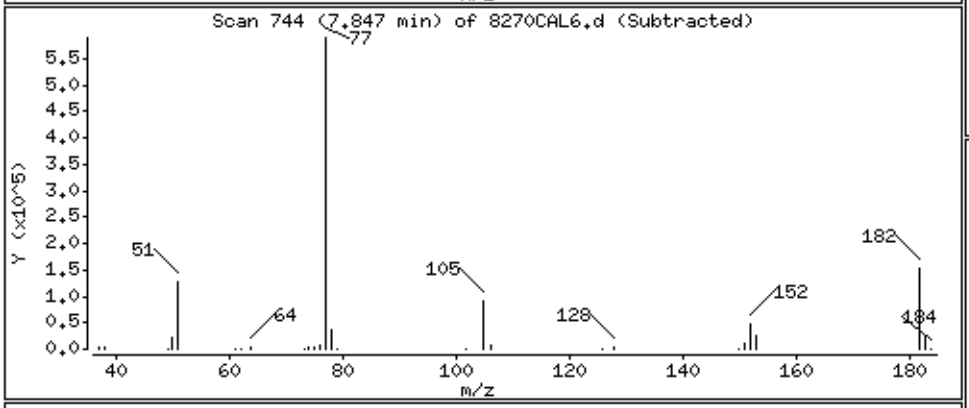
Sample Info: 47764

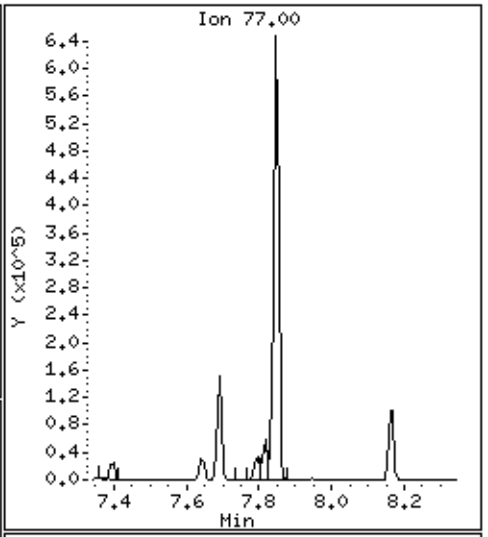
Operator: MJ

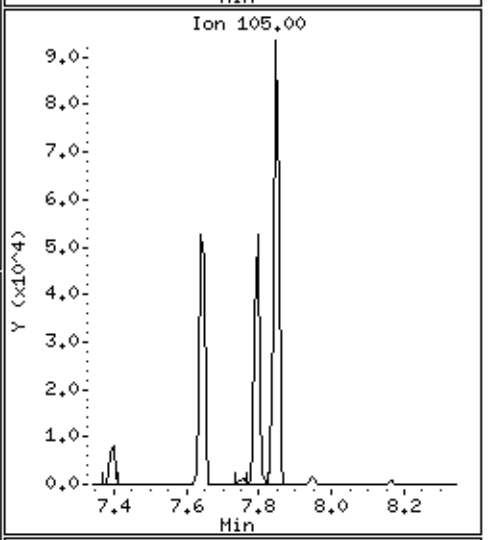
Column phase: HPMS-5 Column diameter: 0.25

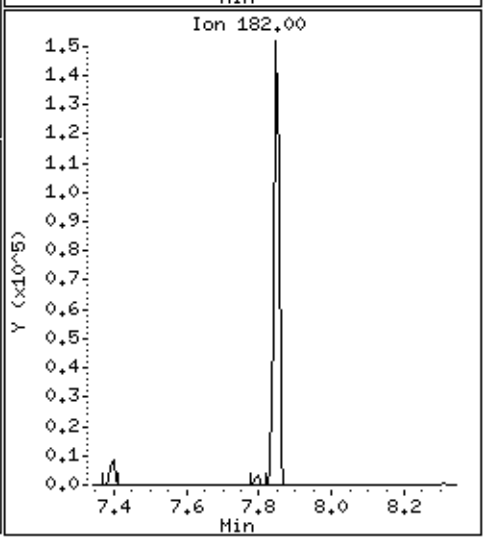
87 1,2-Diphenylhydrazine Concentration: 65.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

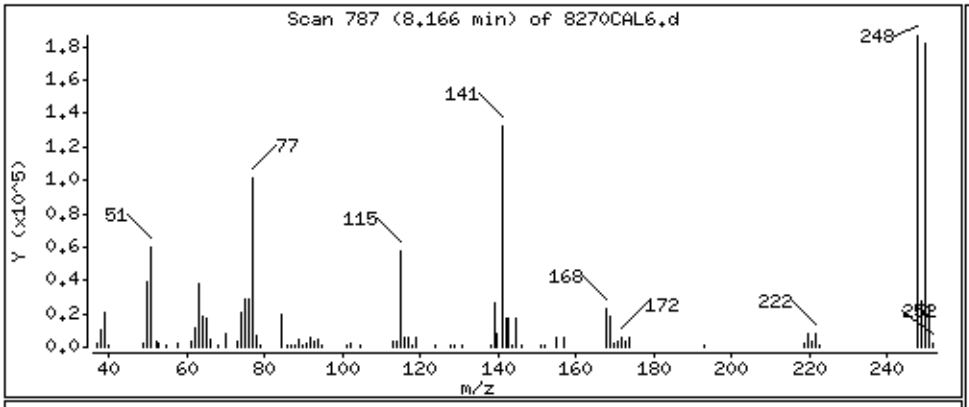
Operator: MJ

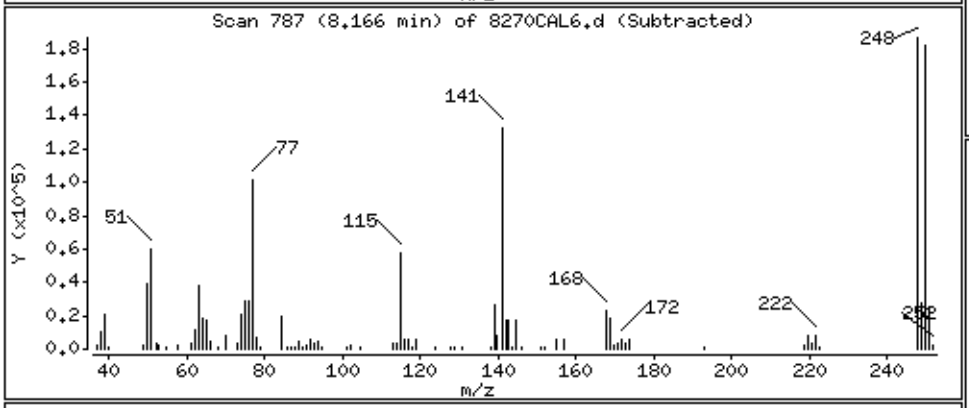
Column phase: HPMS-5

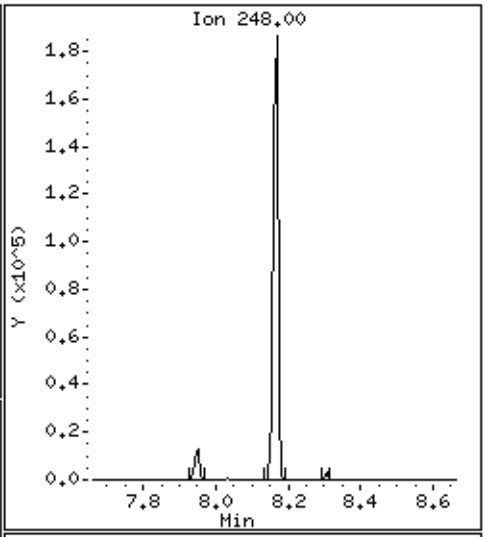
Column diameter: 0.25

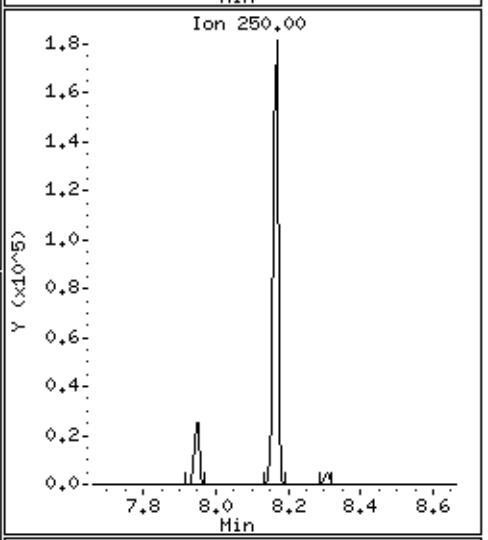
93 4-Bromophenylphenylether

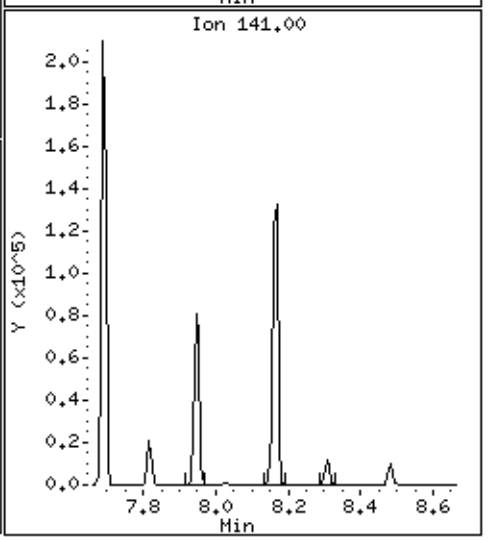
Concentration: 72.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

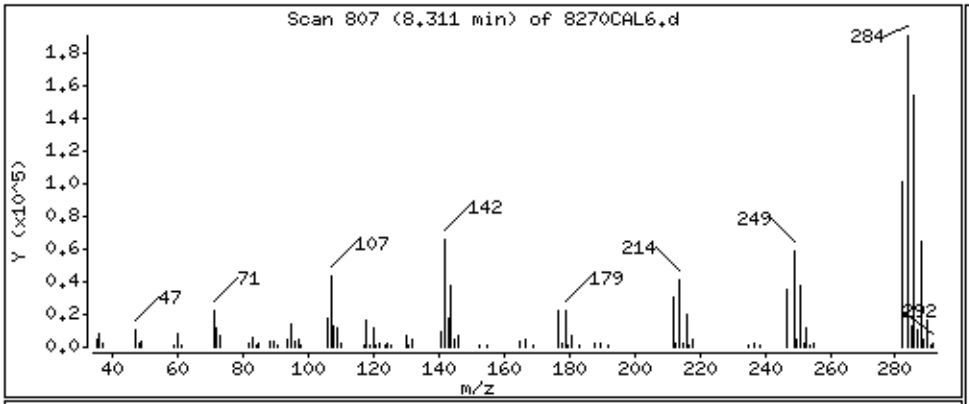
Operator: MJ

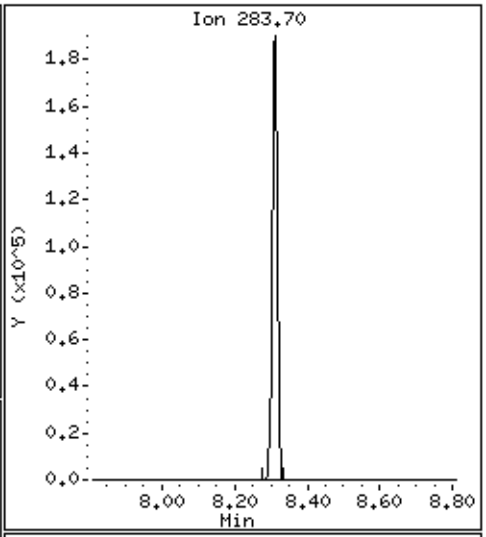
Column phase: HPMS-5

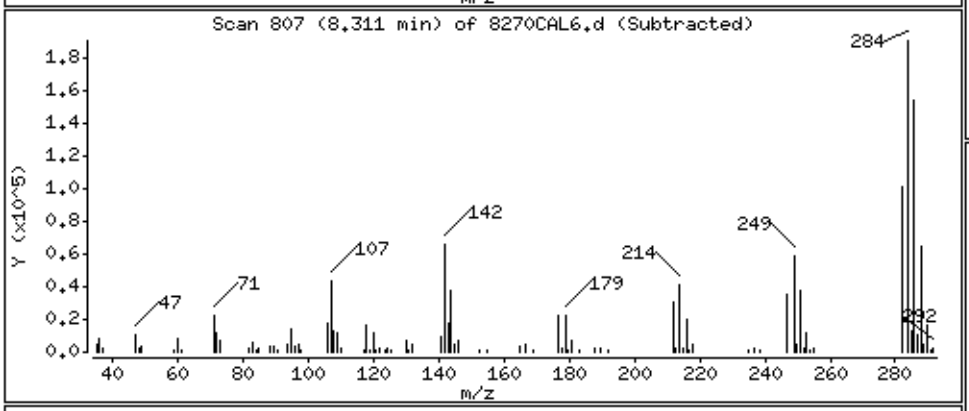
Column diameter: 0.25

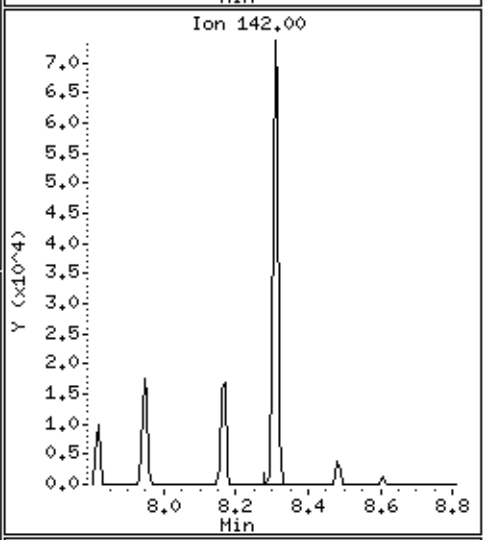
94 Hexachlorobenzene

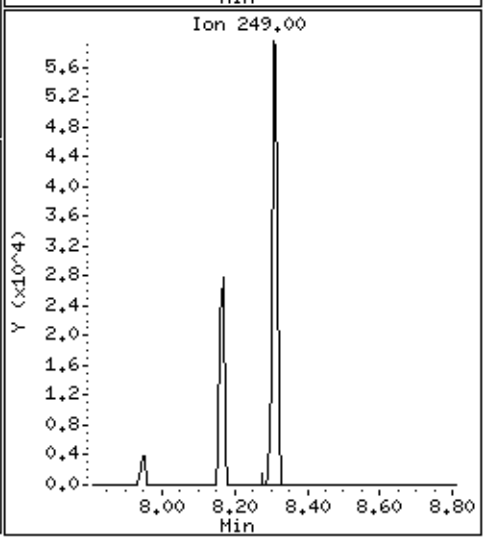
Concentration: 73.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

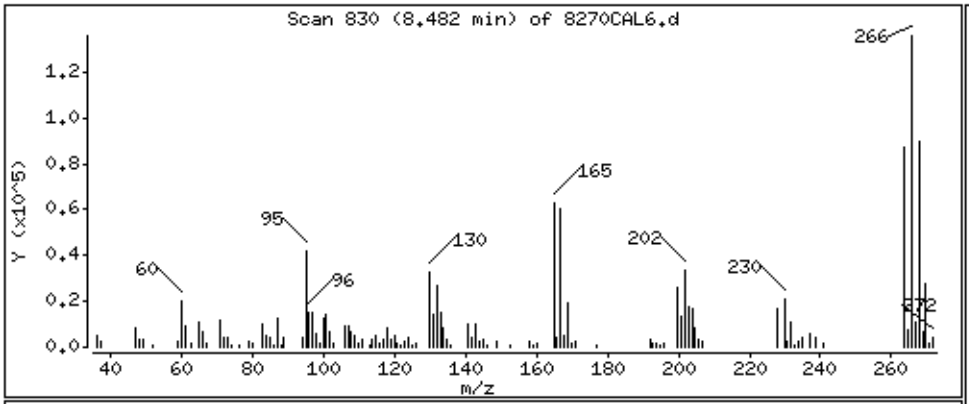
Operator: MJ

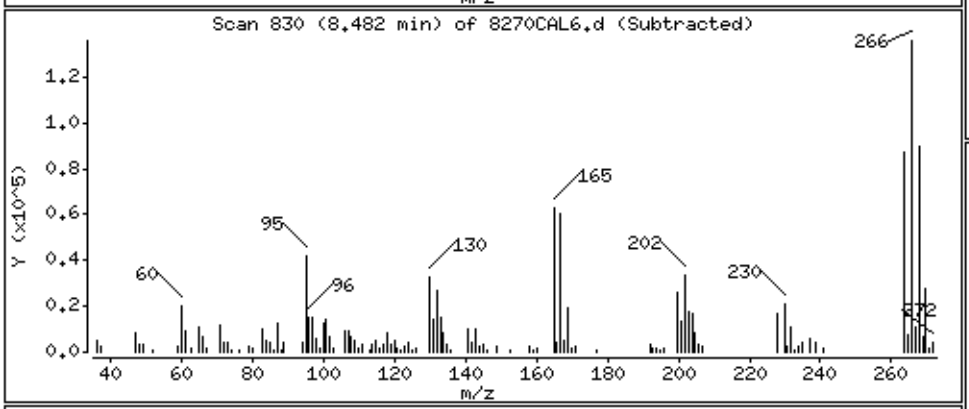
Column phase: HPMS-5

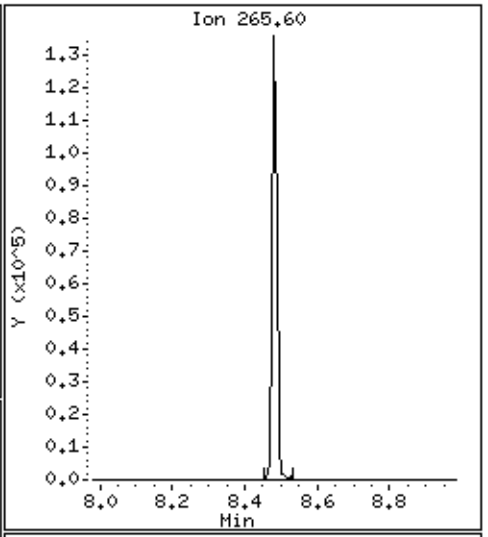
Column diameter: 0.25

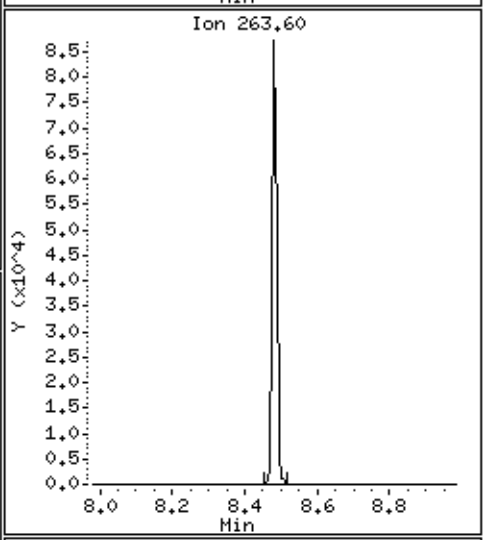
96 Pentachlorophenol

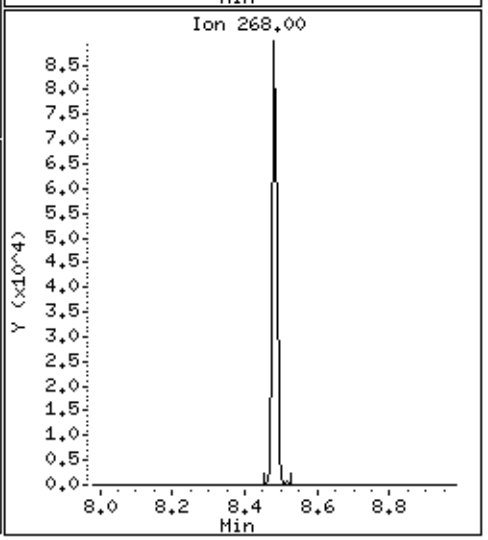
Concentration: 71.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

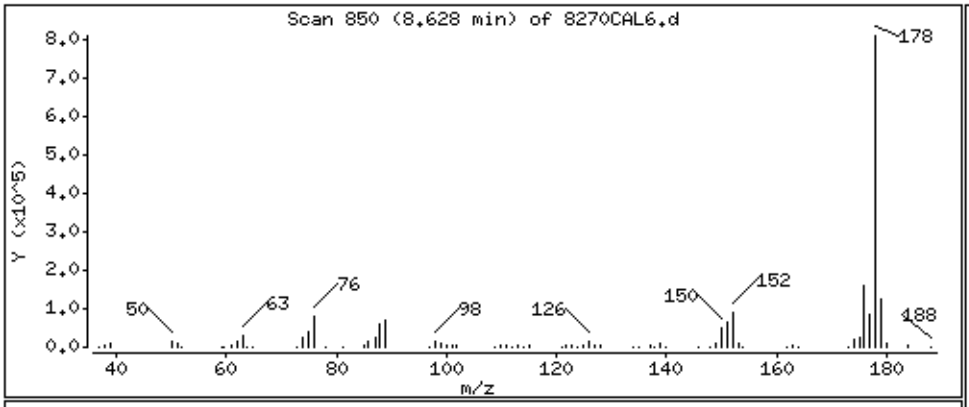
Operator: MJ

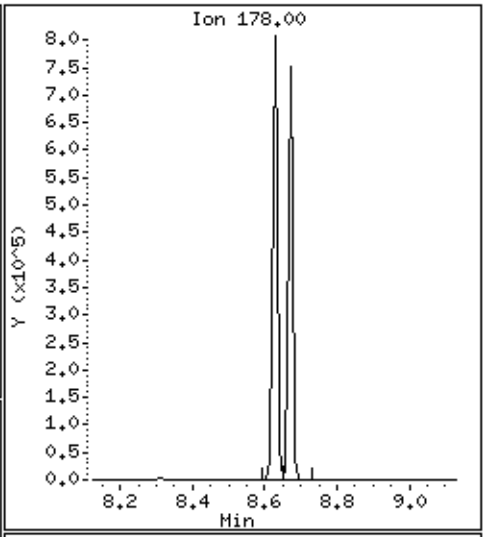
Column phase: HPMS-5

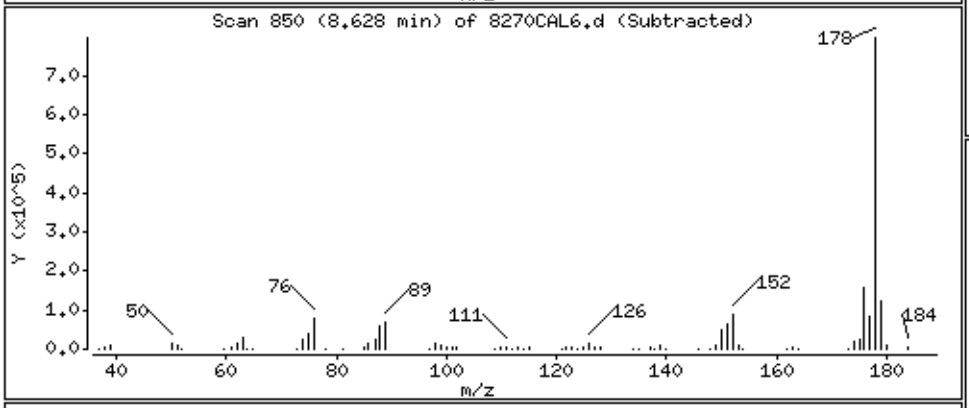
Column diameter: 0.25

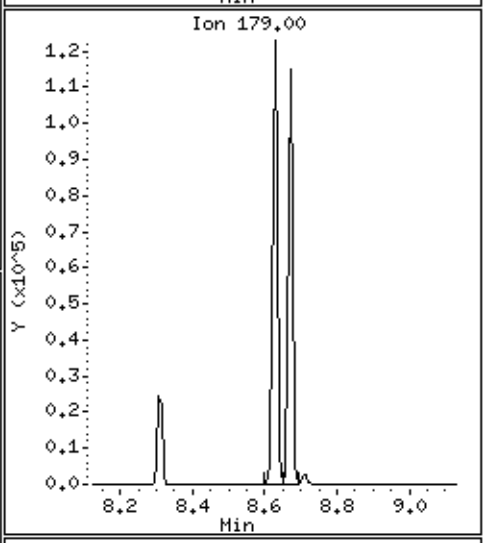
101 Phenanthrene

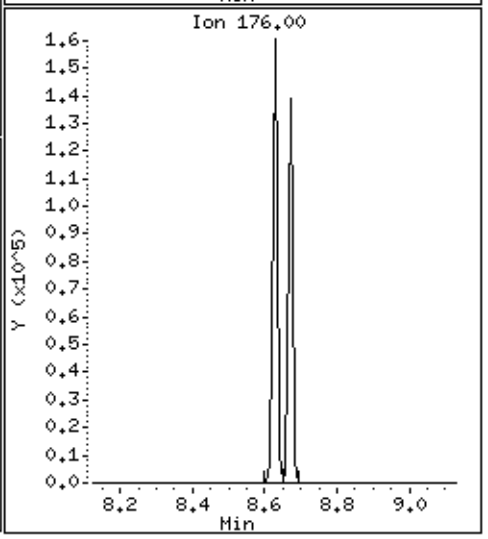
Concentration: 74.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

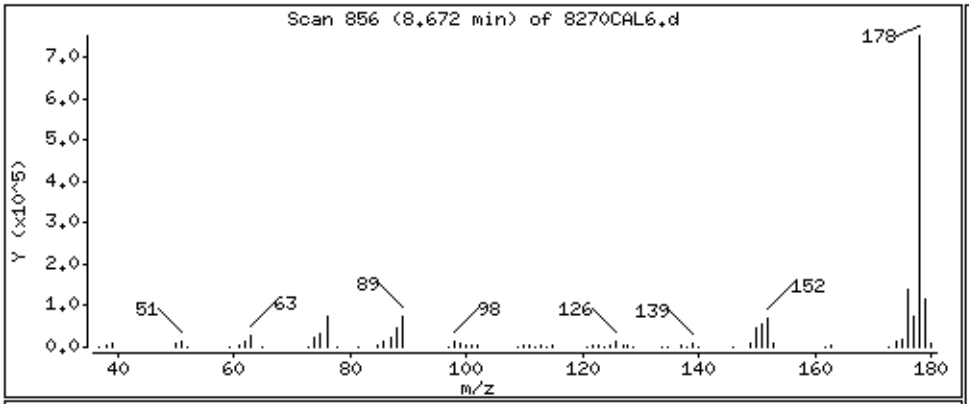
Operator: MJ

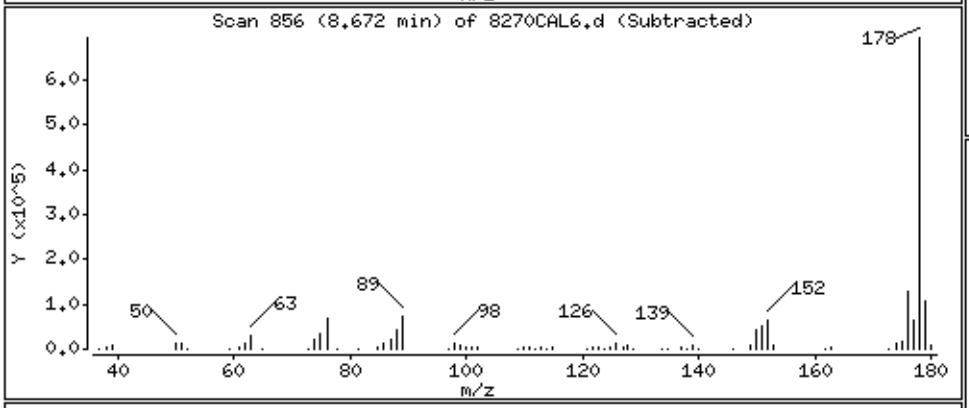
Column phase: HPMS-5

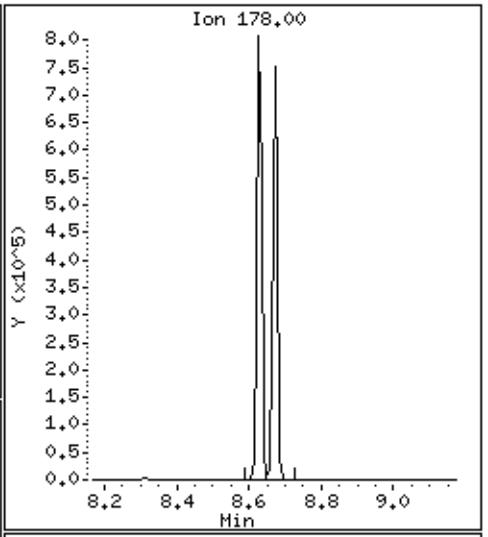
Column diameter: 0.25

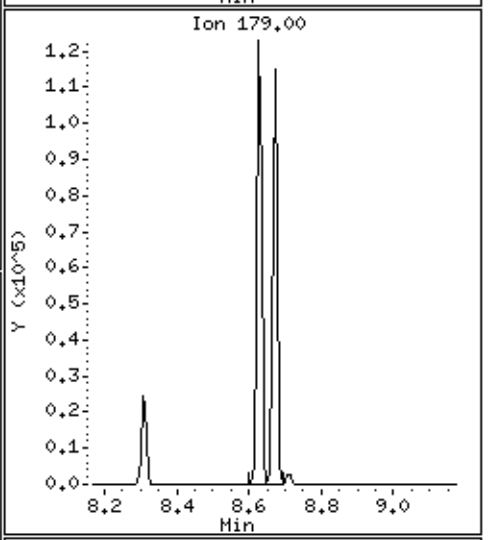
103 Anthracene

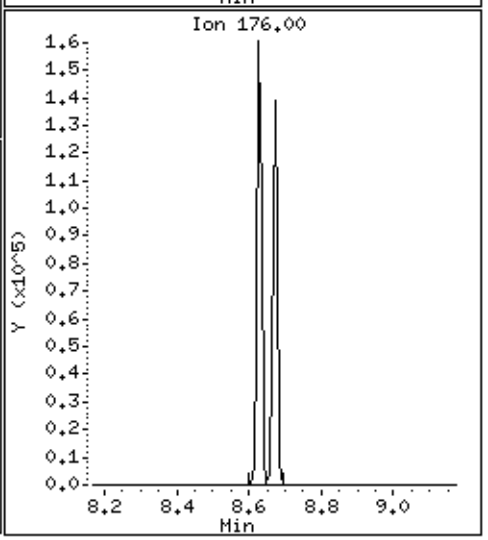
Concentration: 73.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

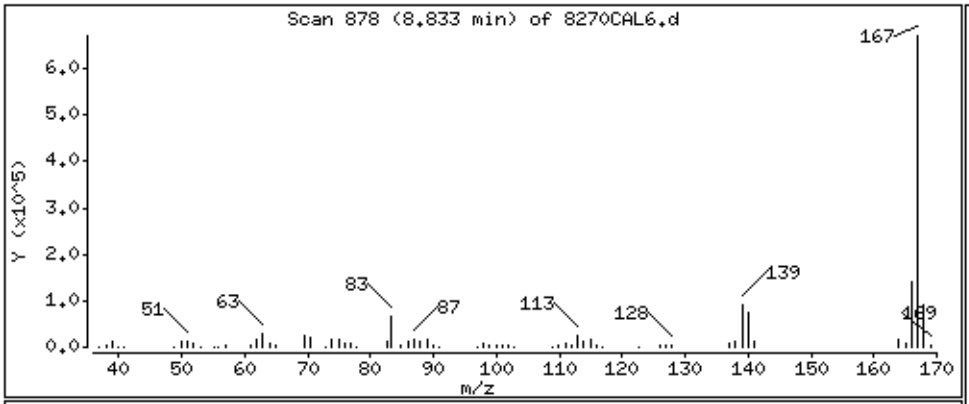
Operator: MJ

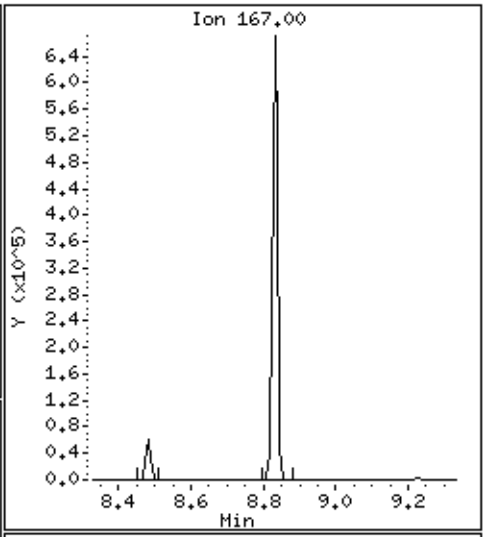
Column phase: HPMS-5

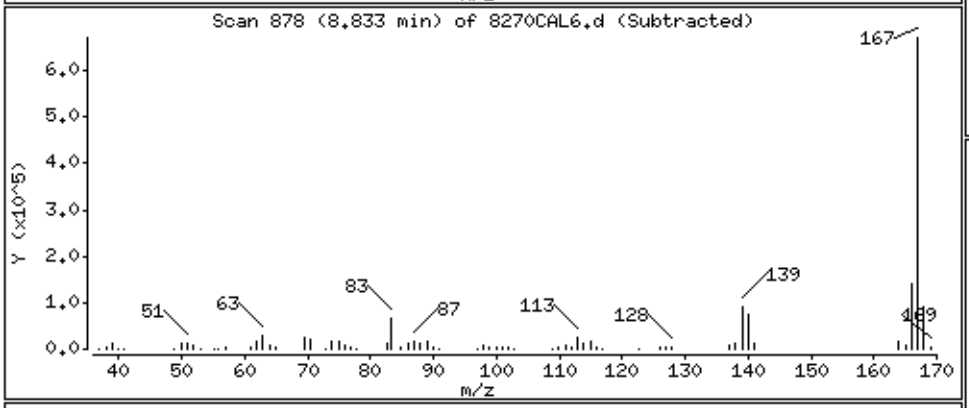
Column diameter: 0.25

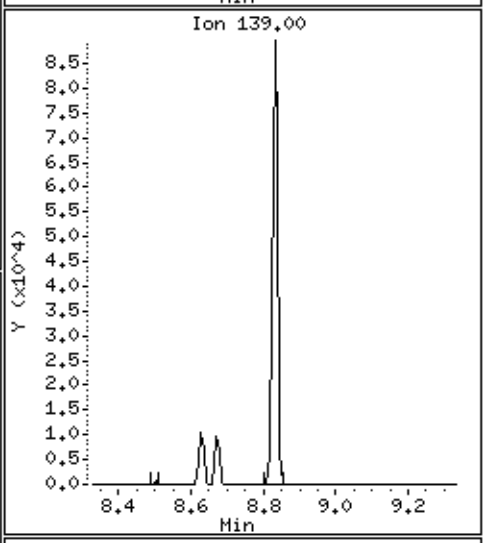
104 Carbazole

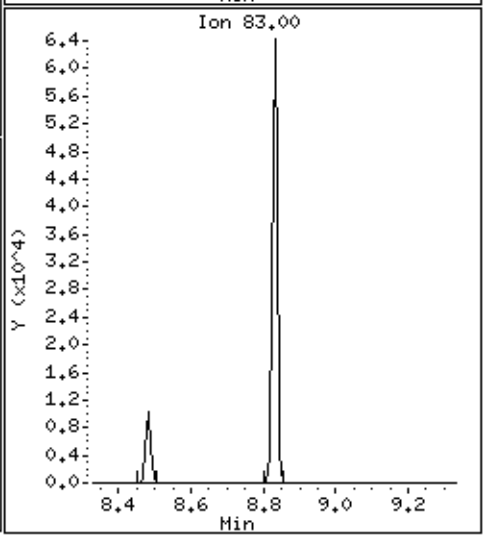
Concentration: 75.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

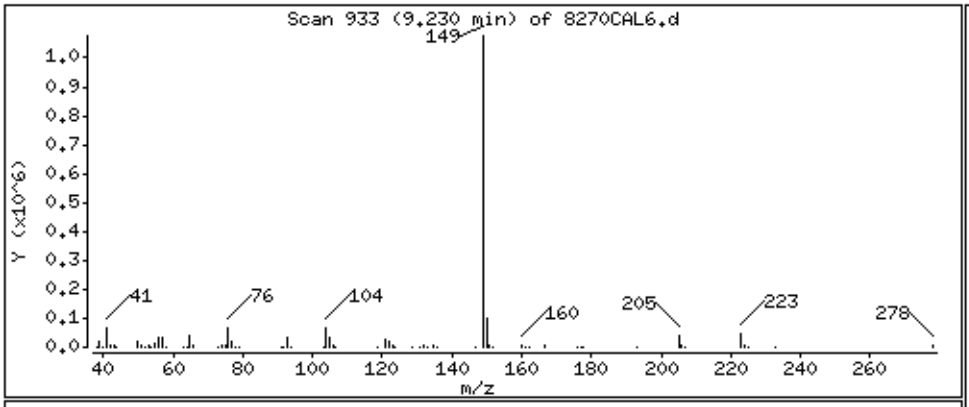
Operator: MJ

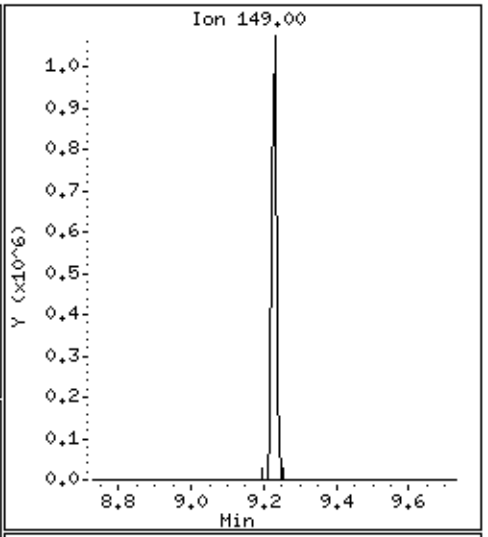
Column phase: HPMS-5

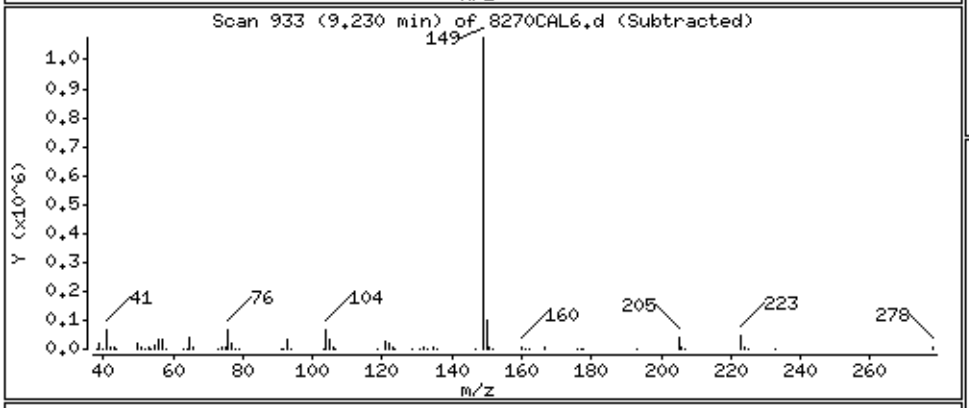
Column diameter: 0.25

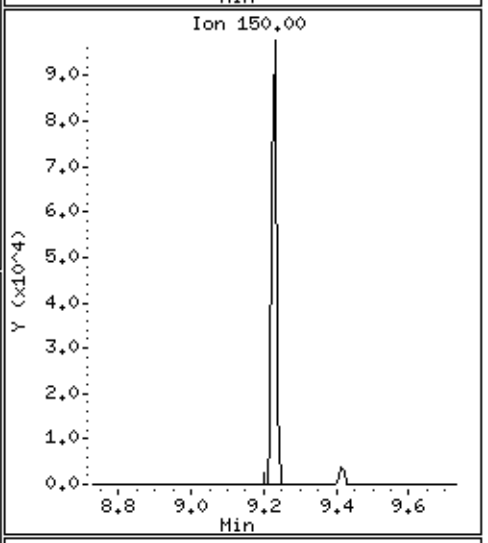
105 Di-n-butylphthalate

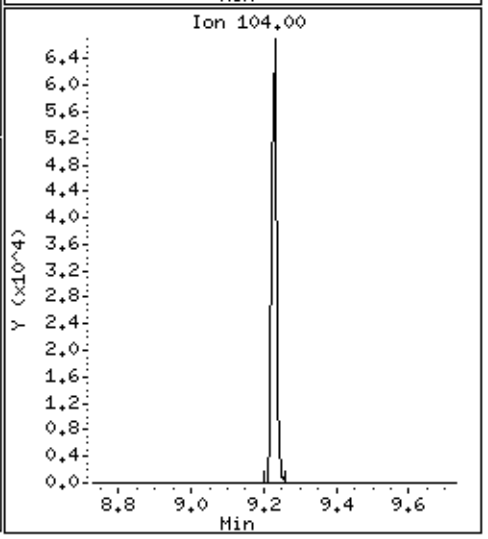
Concentration: 74.9 ug/kg











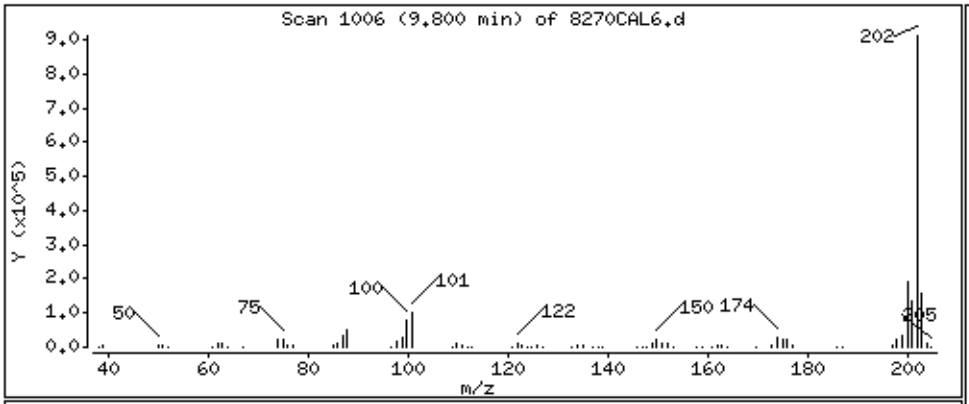
Date : 14-NOV-2012 23:01

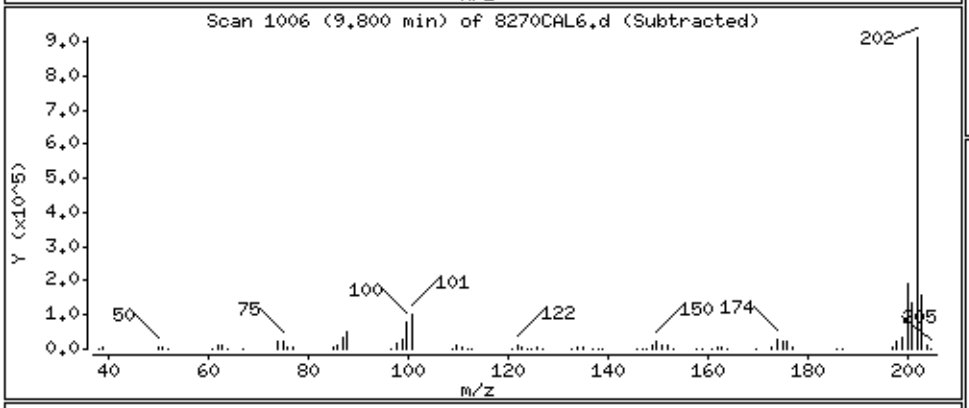
Client ID: 8270CAL6 Instrument: smsd04.i

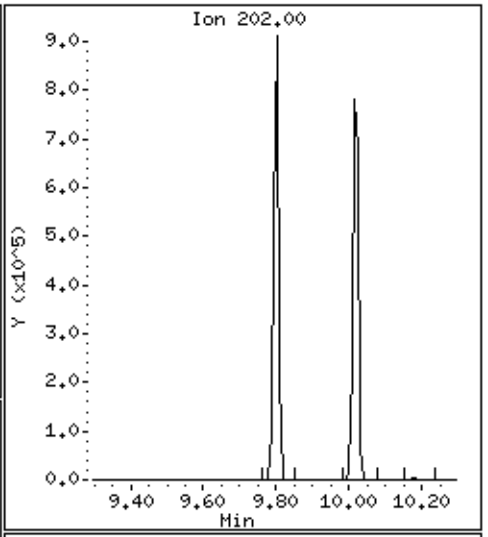
Sample Info: 47764 Operator: MJ

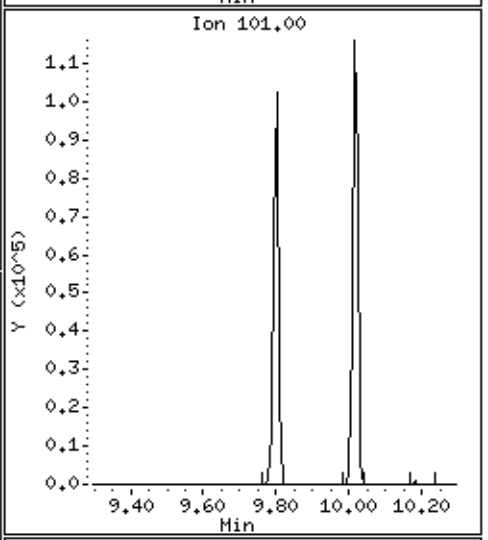
Column phase: HPMS-5 Column diameter: 0.25

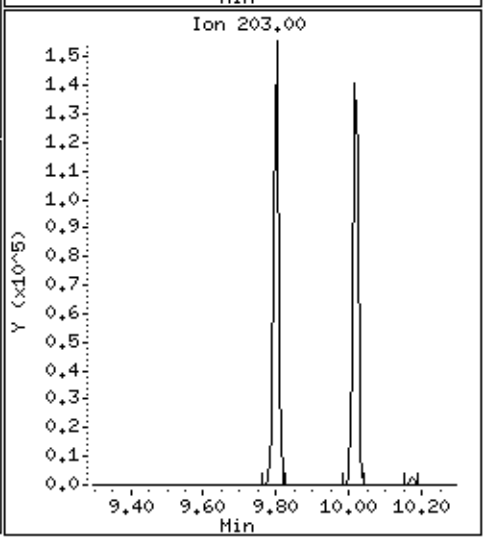
109 Fluoranthene Concentration: 75.2 ug/kg











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Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

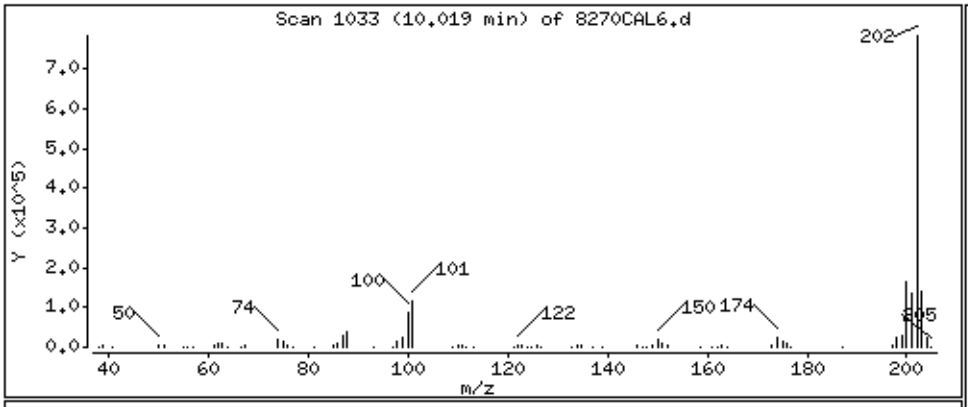
Operator: MJ

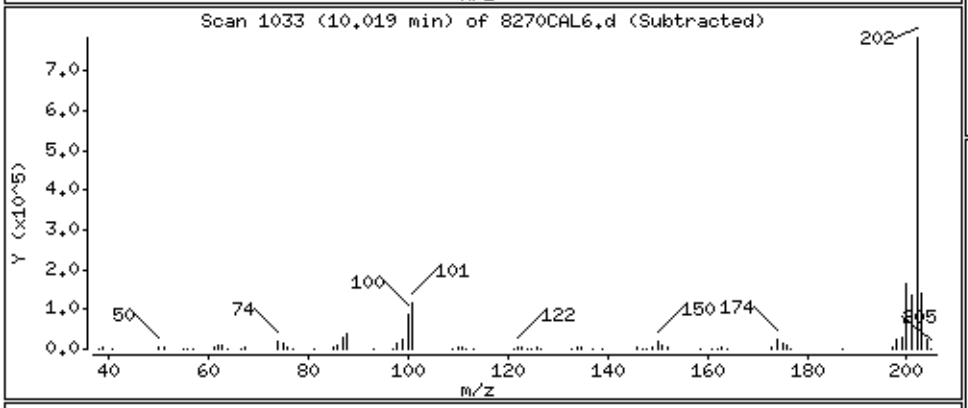
Column phase: HPMS-5

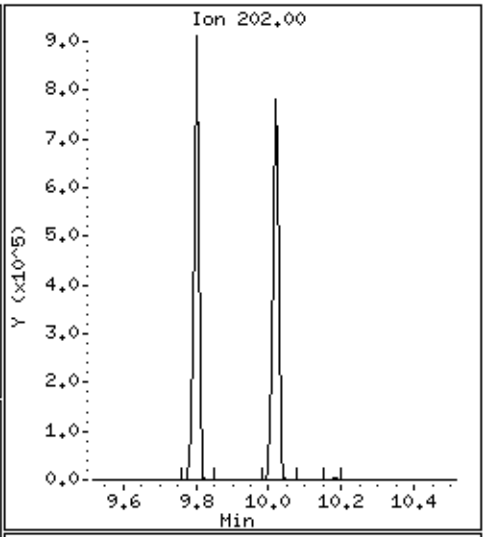
Column diameter: 0.25

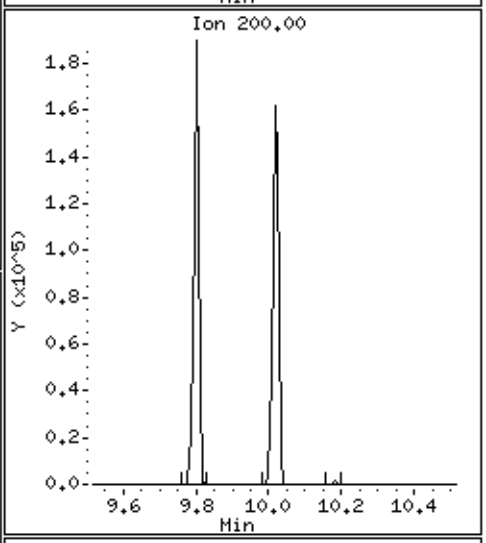
111 Pyrene

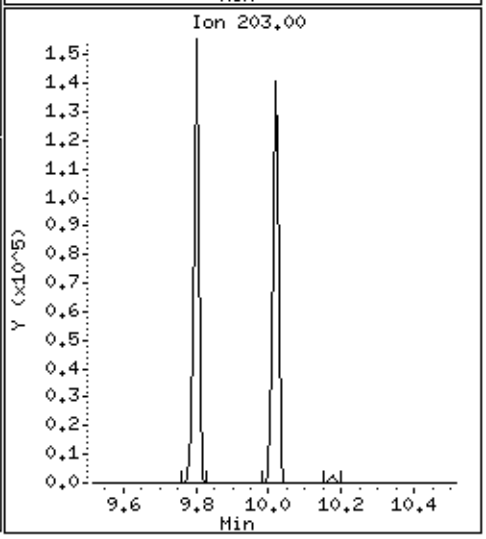
Concentration: 74.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

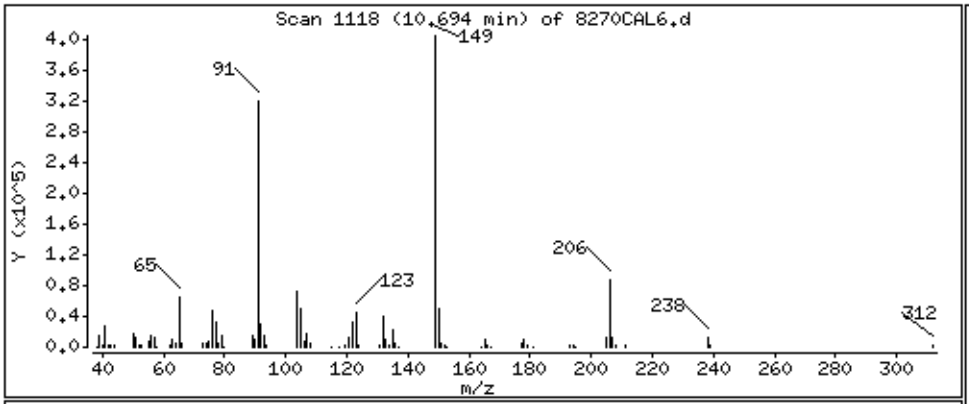
Operator: MJ

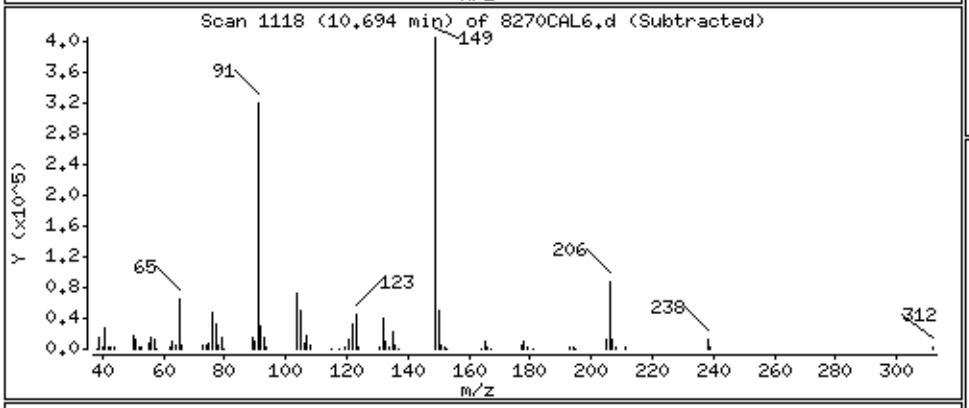
Column phase: HPMS-5

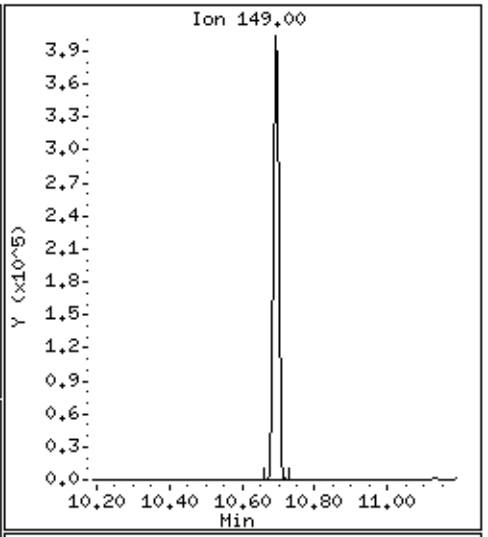
Column diameter: 0.25

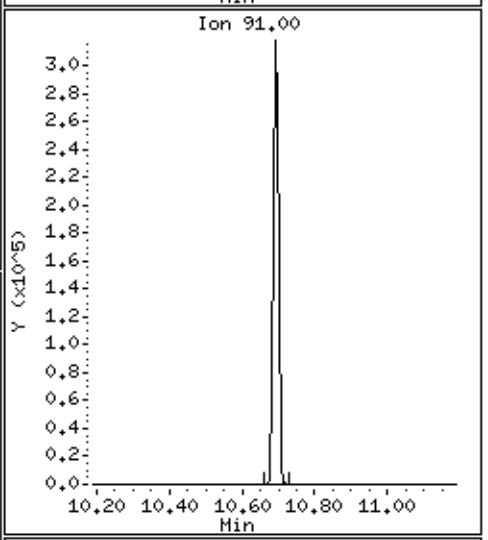
118 Butylbenzylphthalate

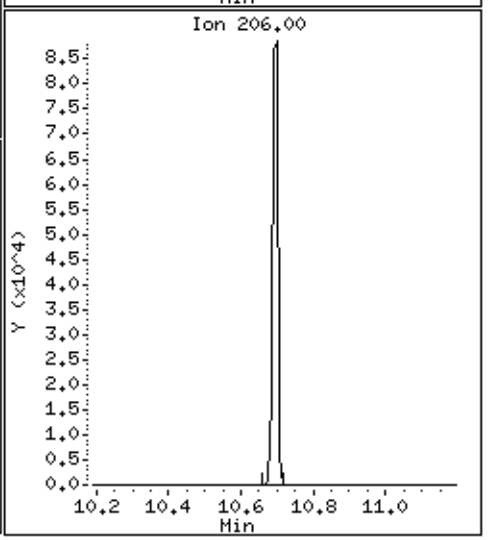
Concentration: 72.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

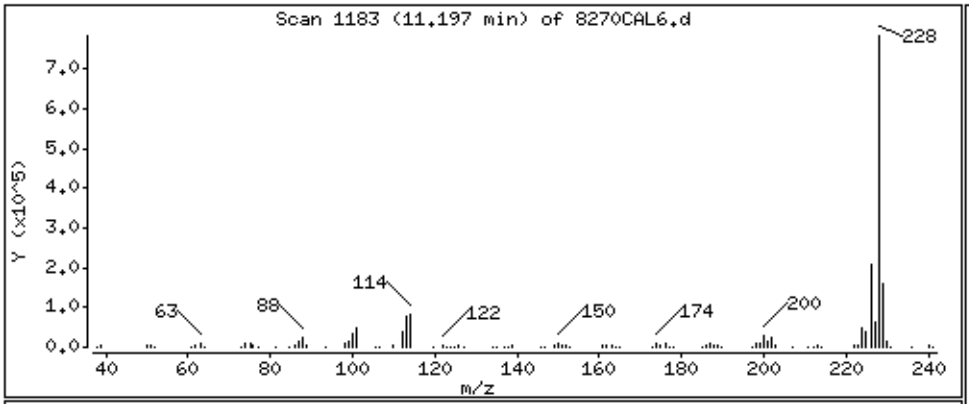
Operator: MJ

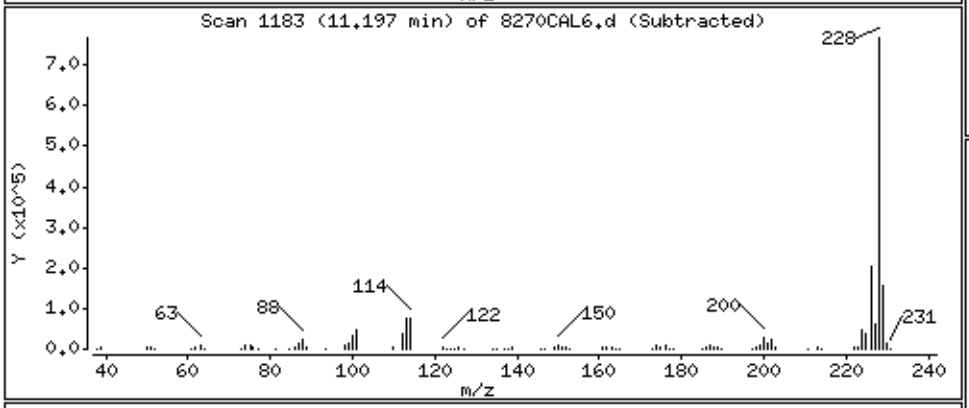
Column phase: HPMS-5

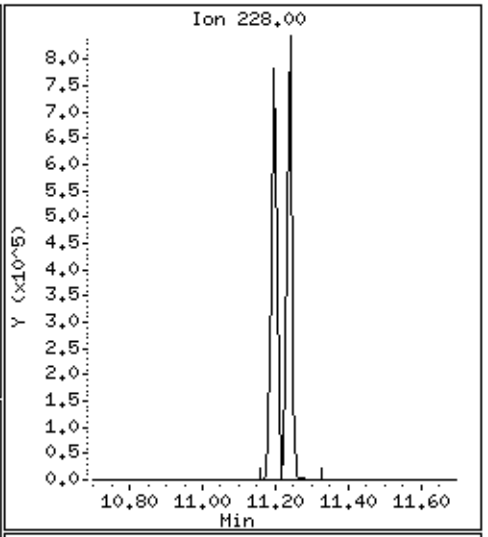
Column diameter: 0.25

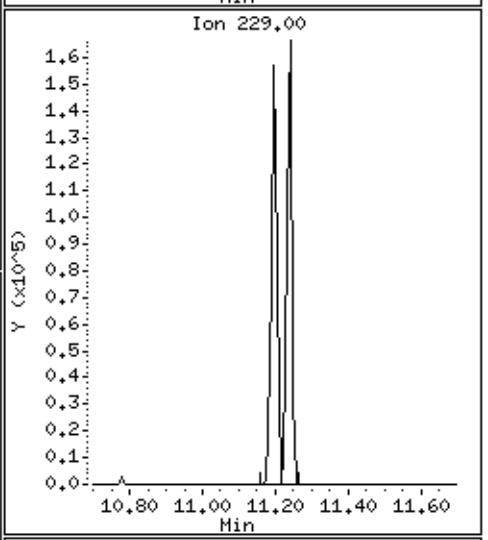
120 Benzo[a]anthracene

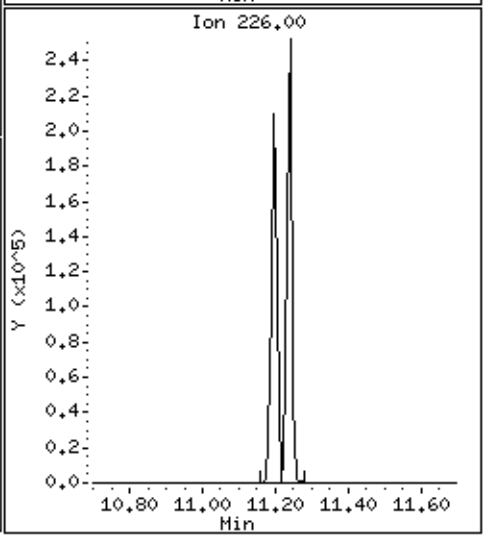
Concentration: 72.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

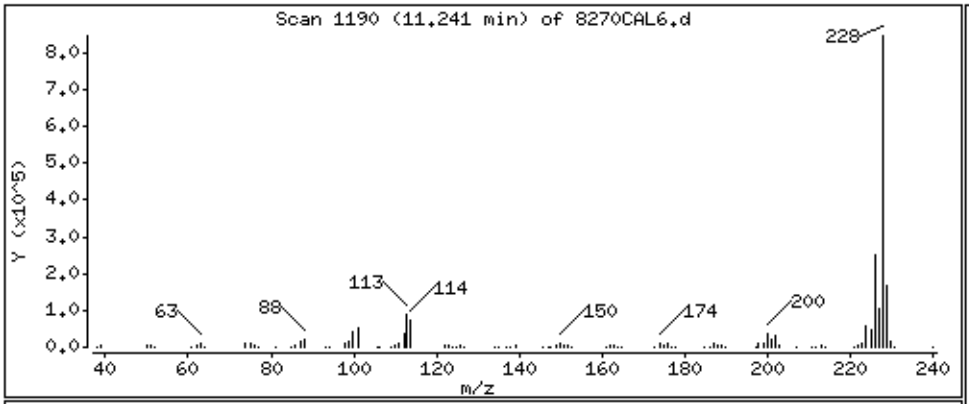
Operator: MJ

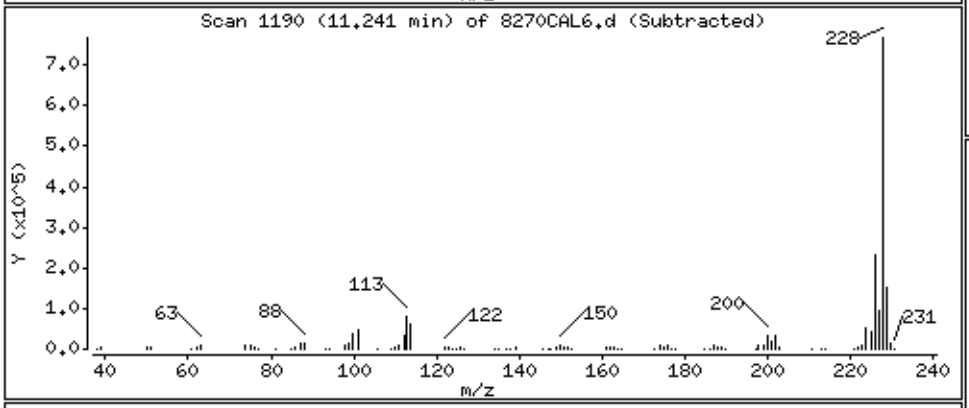
Column phase: HPMS-5

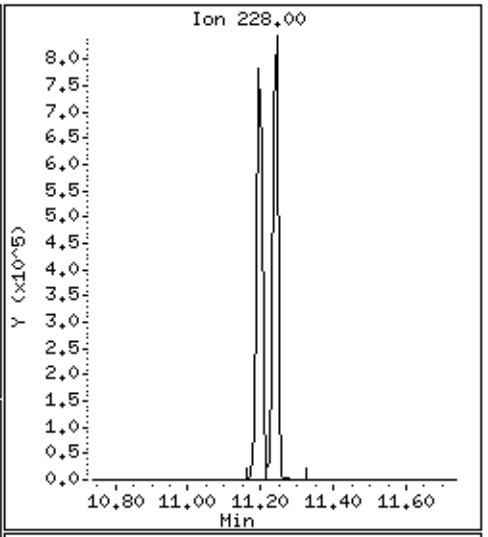
Column diameter: 0.25

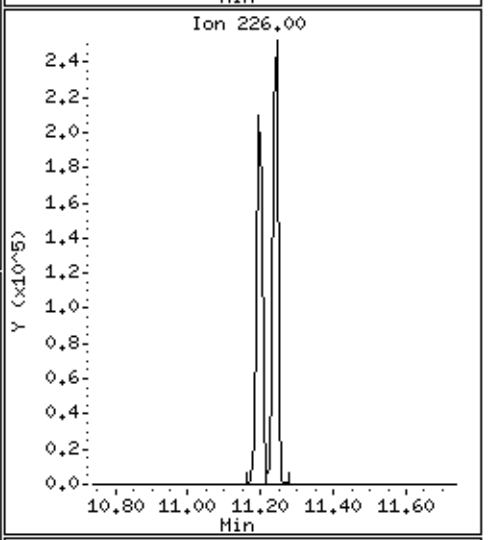
123 Chrysene

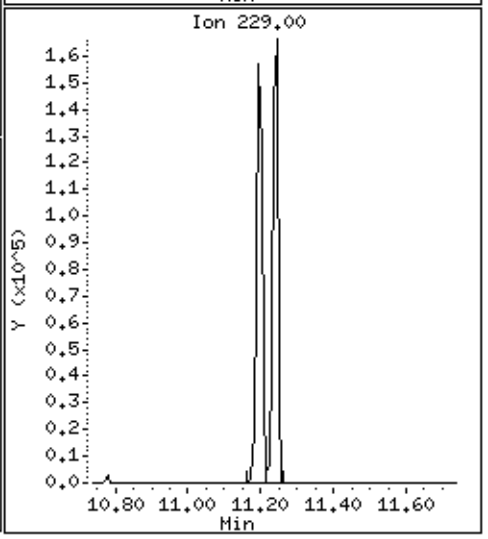
Concentration: 72.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

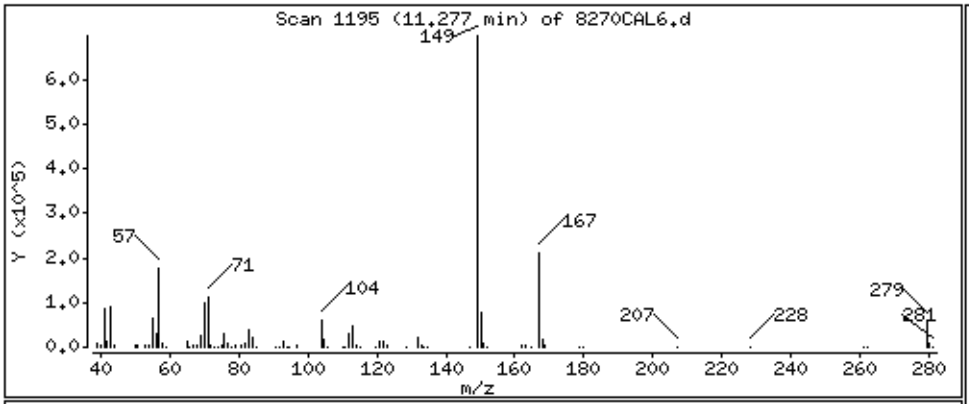
Date : 14-NOV-2012 23:01

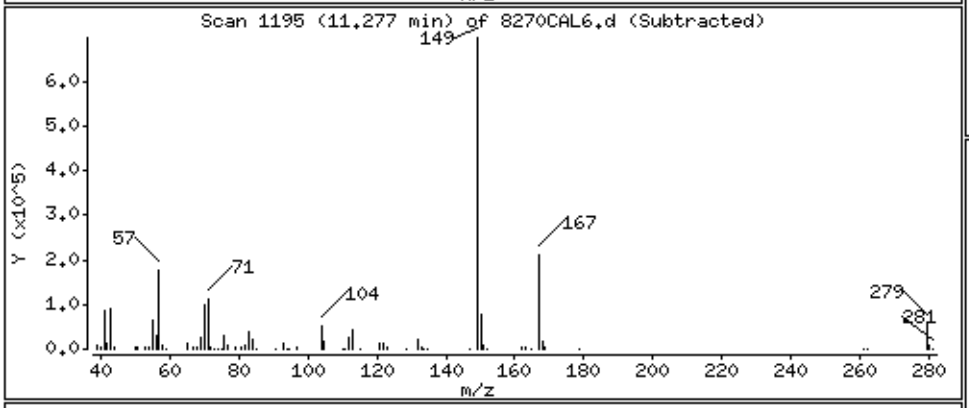
Client ID: 8270CAL6 Instrument: smsd04.i

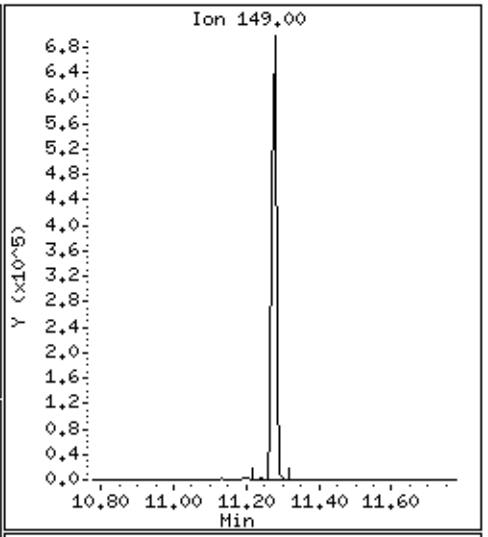
Sample Info: 47764 Operator: MJ

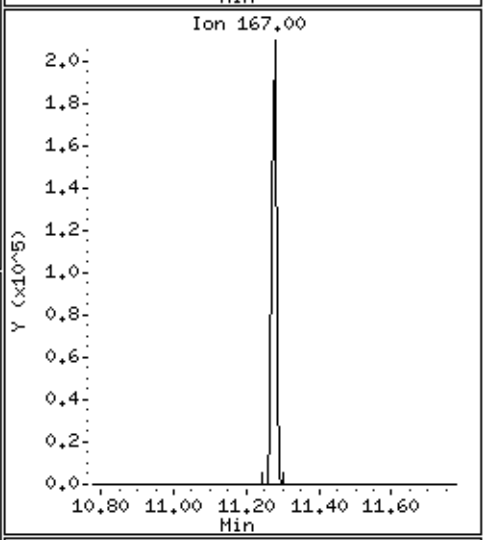
Column phase: HPMS-5 Column diameter: 0.25

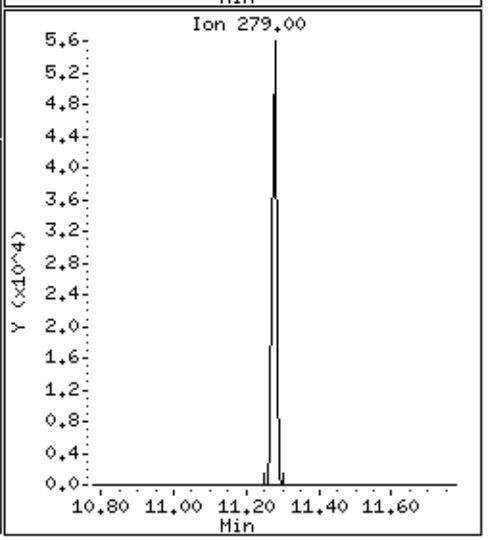
124 Bis-2-Ethylhexylphthalate Concentration: 72.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

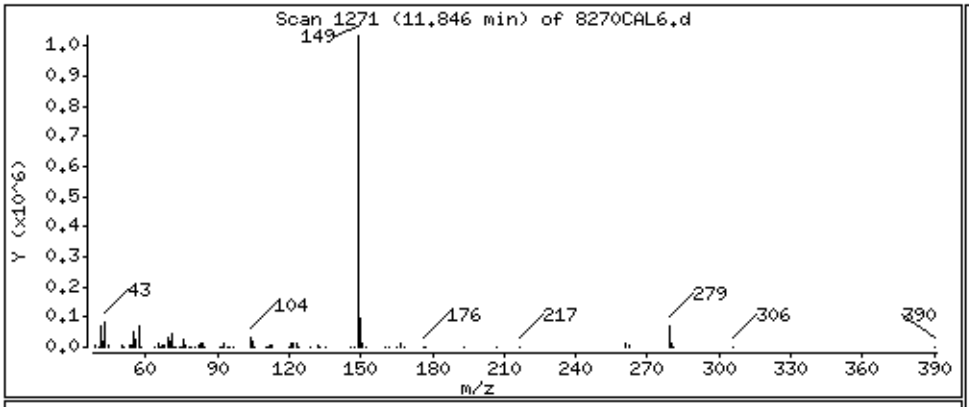
Operator: MJ

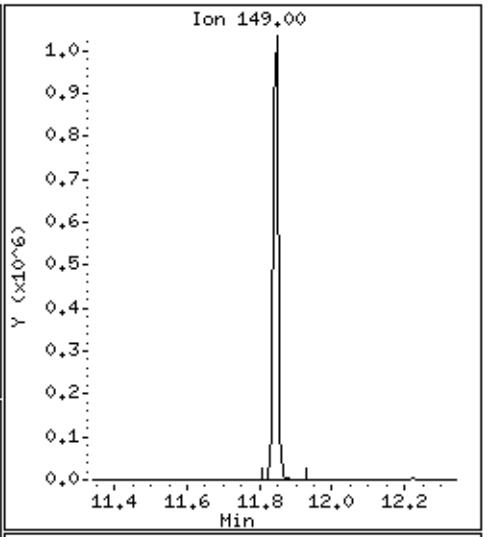
Column phase: HPMS-5

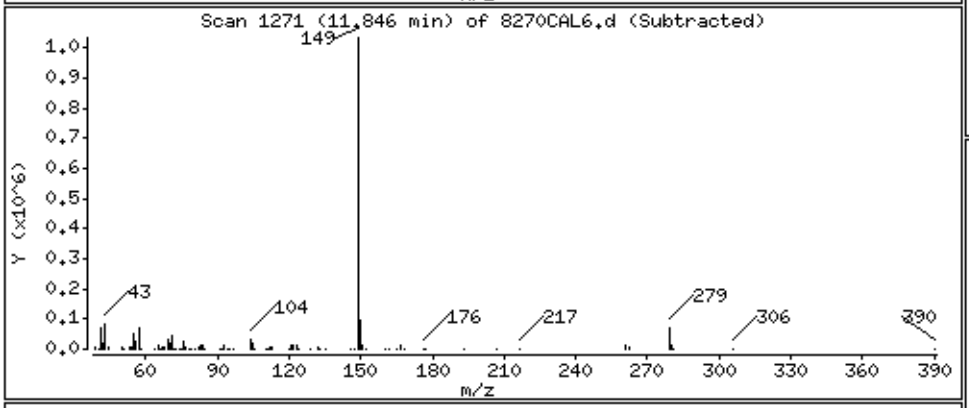
Column diameter: 0.25

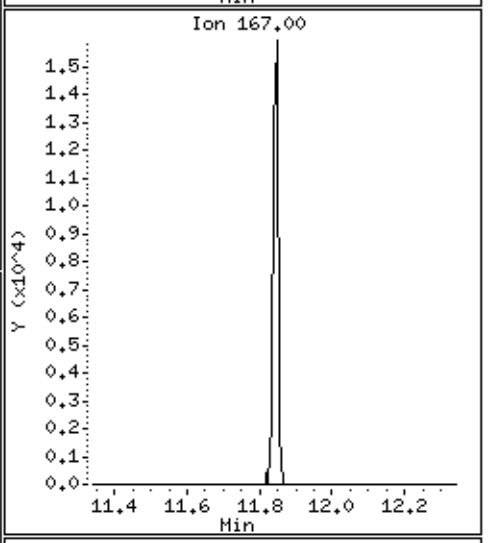
125 Di-n-octylphthalate

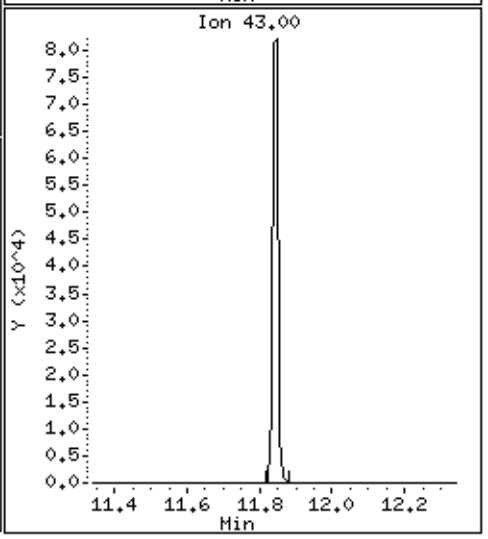
Concentration: 67.6 ug/kg











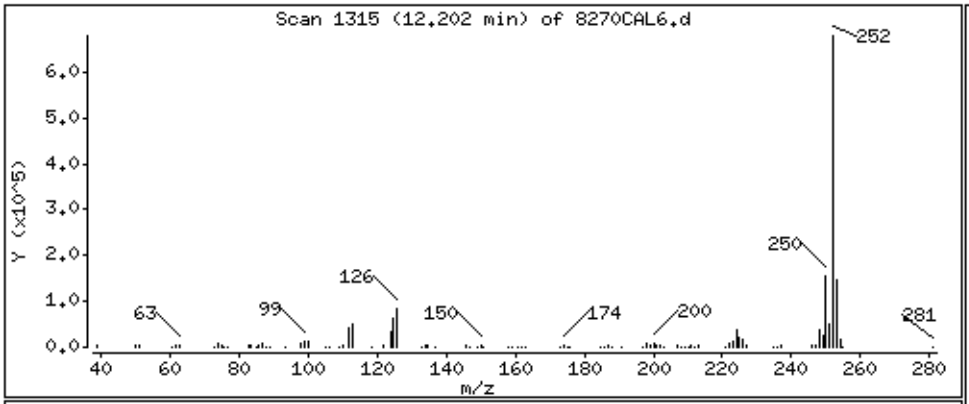
Date : 14-NOV-2012 23:01

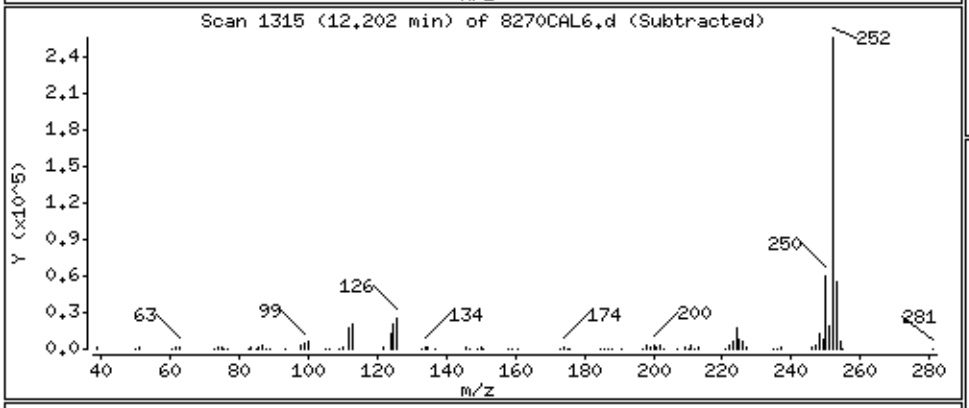
Client ID: 8270CAL6 Instrument: smsd04.i

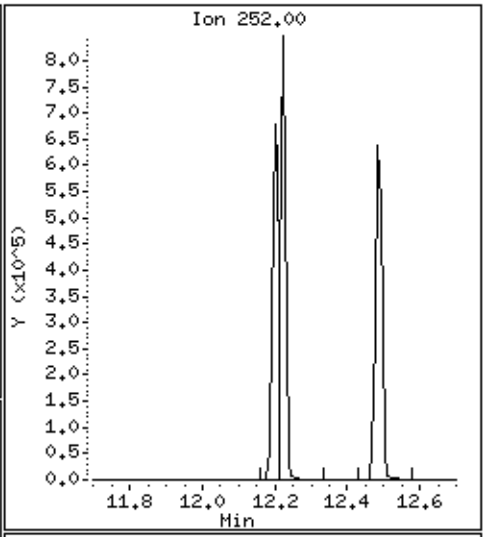
Sample Info: 47764 Operator: MJ

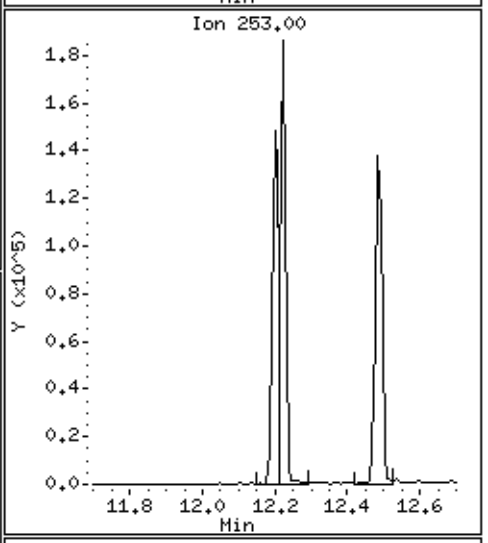
Column phase: HPMS-5 Column diameter: 0.25

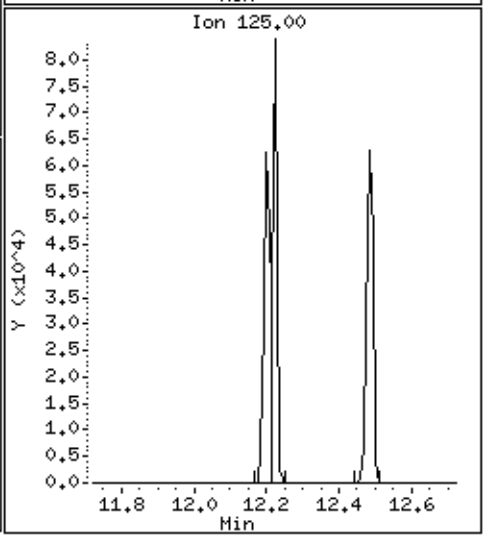
127 Benzo[b]fluoranthene Concentration: 81.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

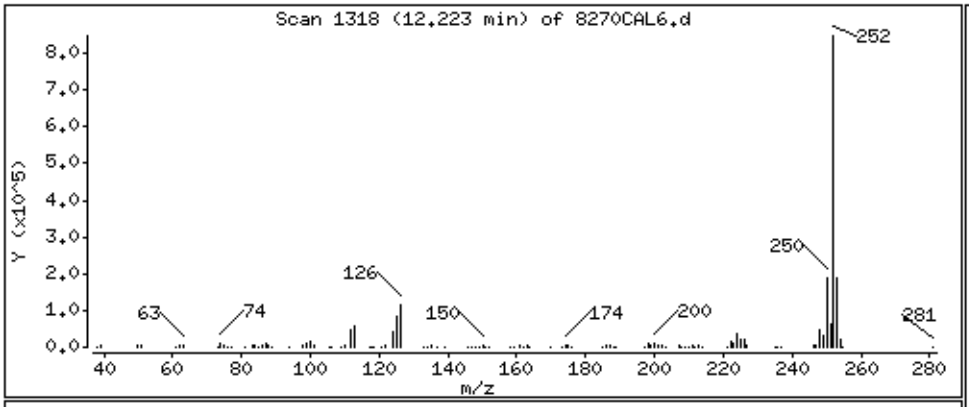
Operator: MJ

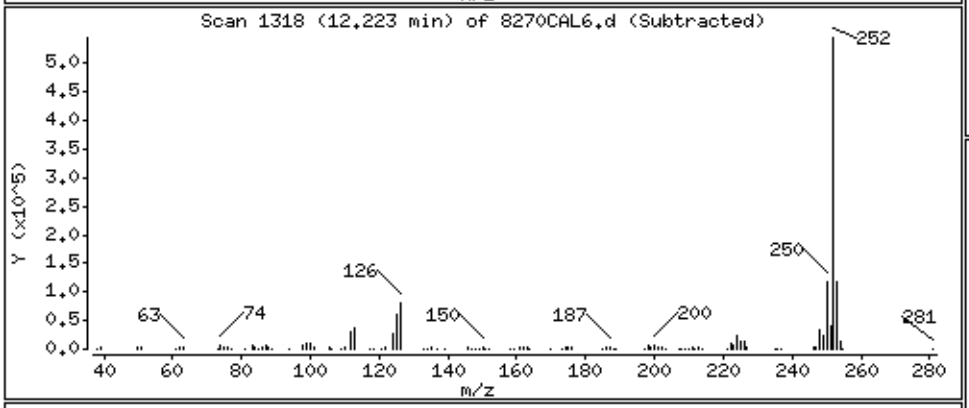
Column phase: HPMS-5

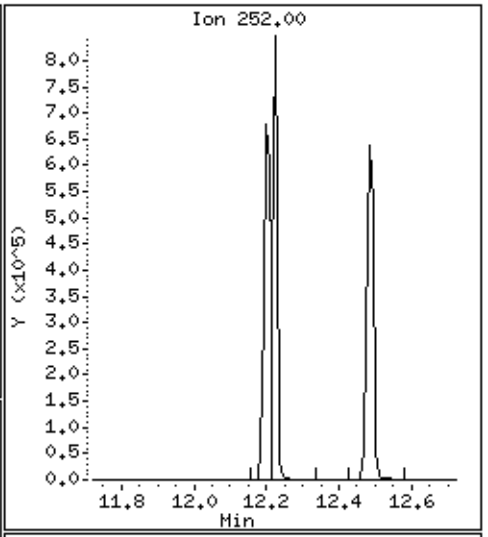
Column diameter: 0.25

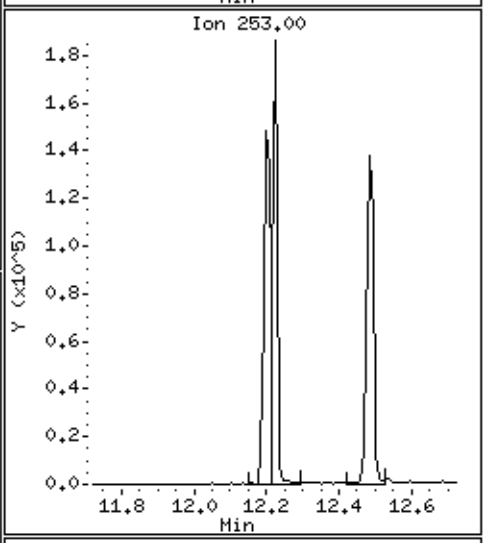
128 Benzo[k]fluoranthene

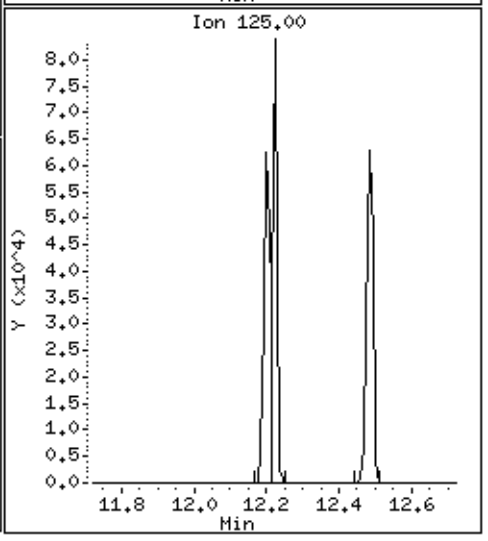
Concentration: 63.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

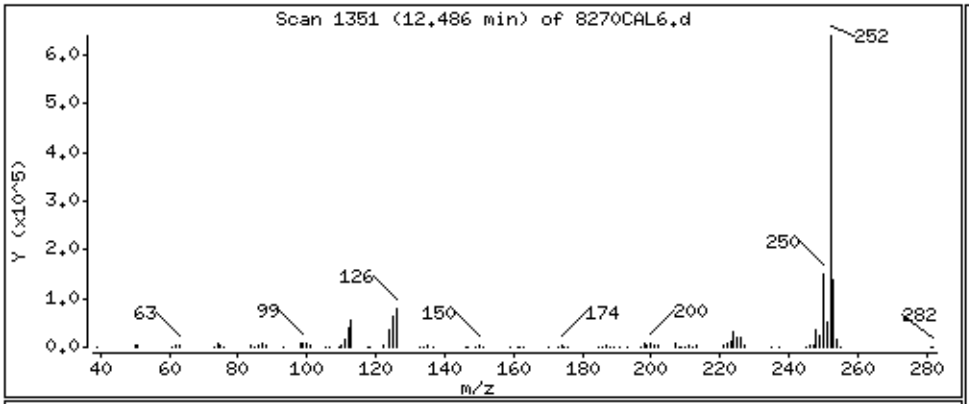
Operator: MJ

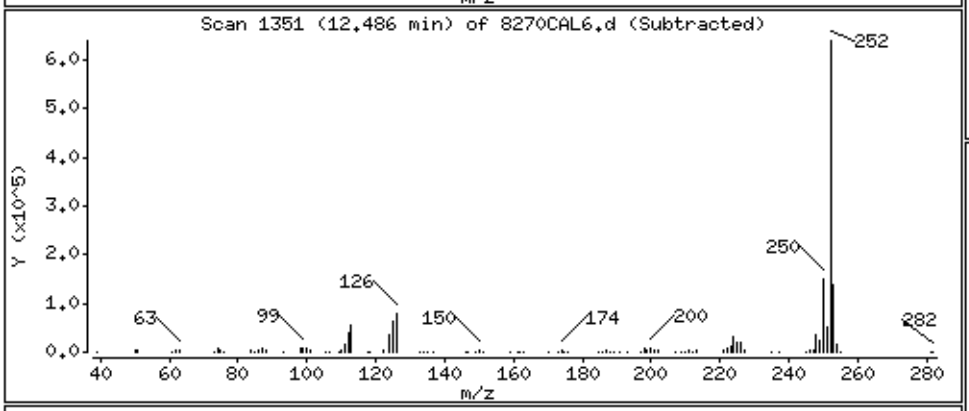
Column phase: HPMS-5

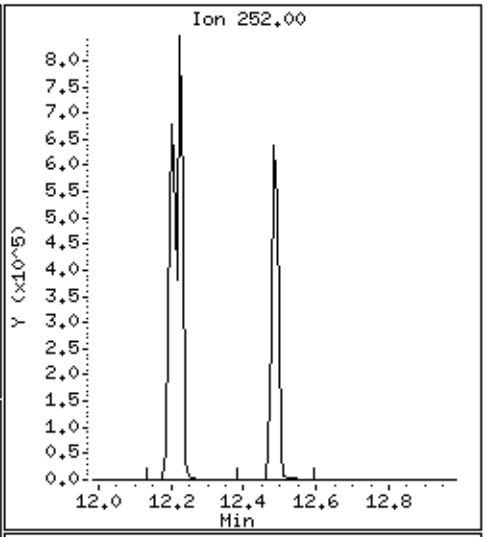
Column diameter: 0.25

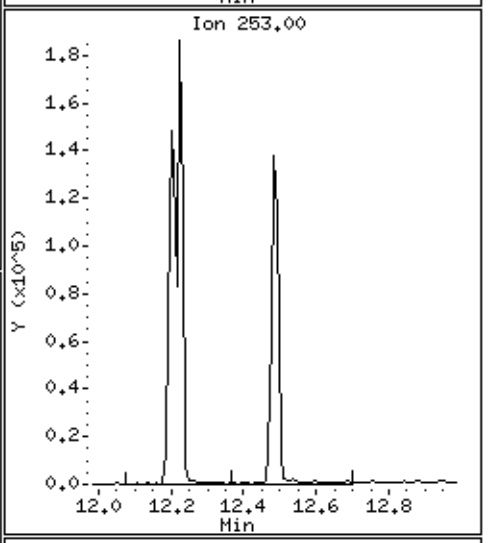
129 Benzo[a]pyrene

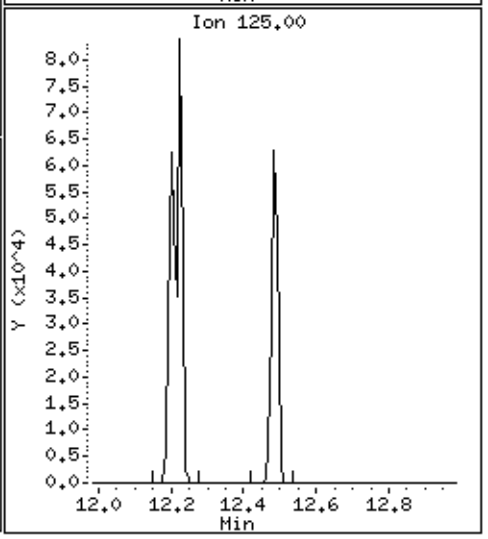
Concentration: 71.7 ug/kg











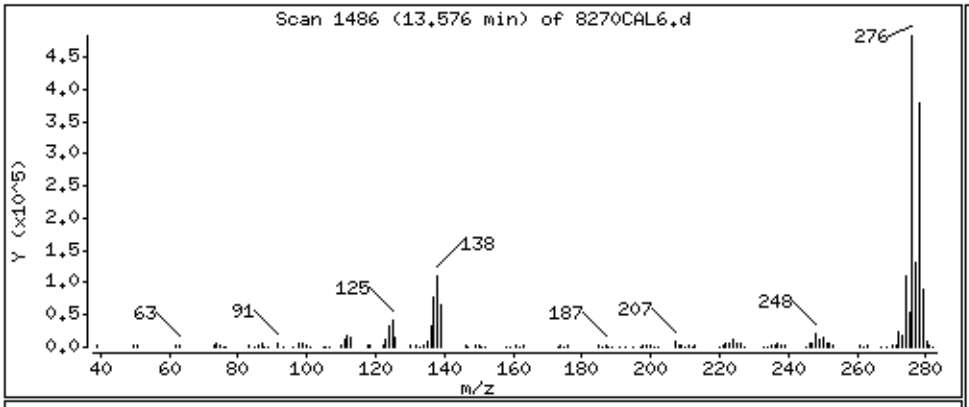
Date : 14-NOV-2012 23:01

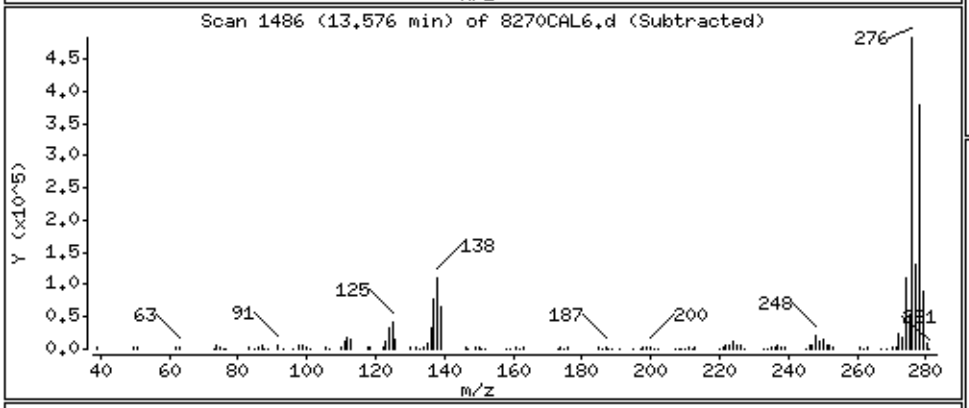
Client ID: 8270CAL6 Instrument: smsd04.i

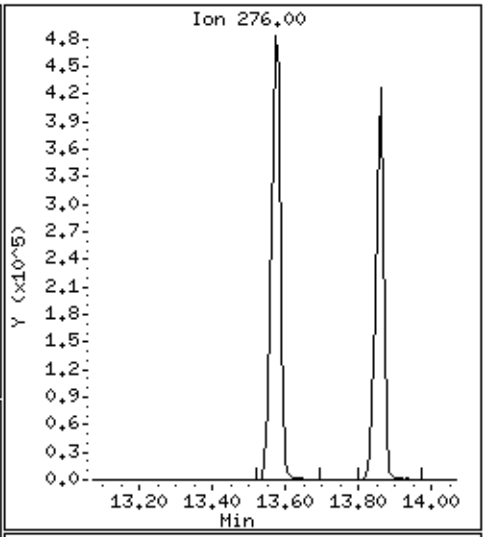
Sample Info: 47764 Operator: MJ

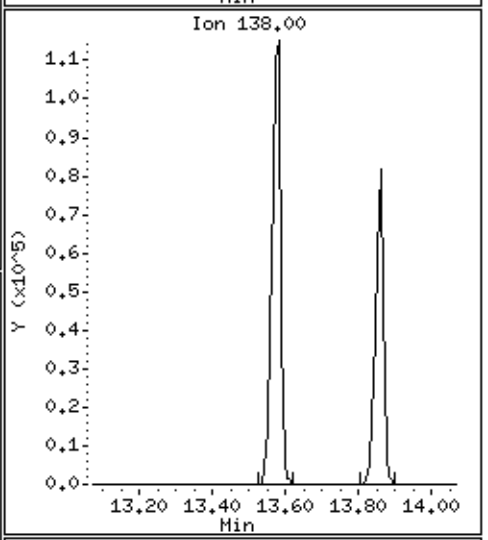
Column phase: HPMS-5 Column diameter: 0.25

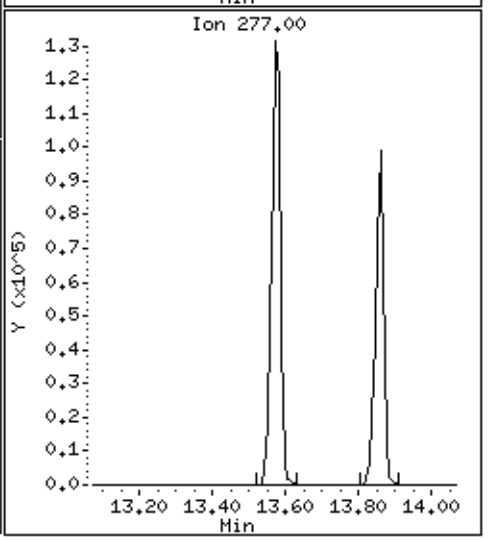
133 Indeno[1,2,3-cd]pyrene Concentration: 74.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

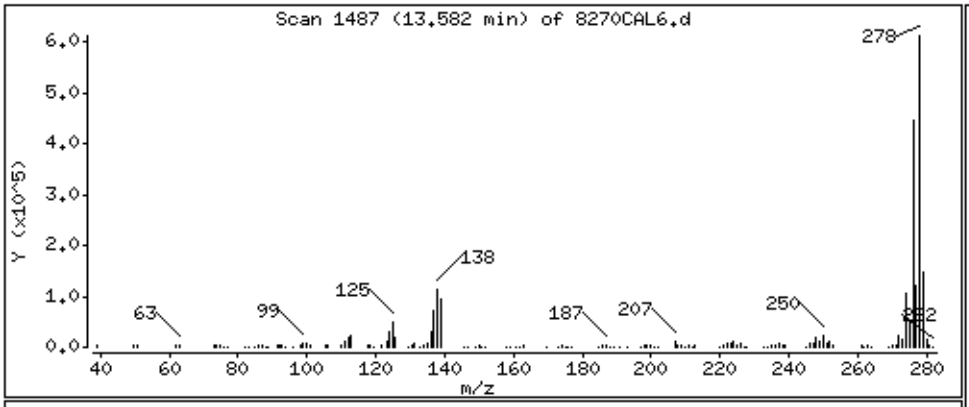
Operator: MJ

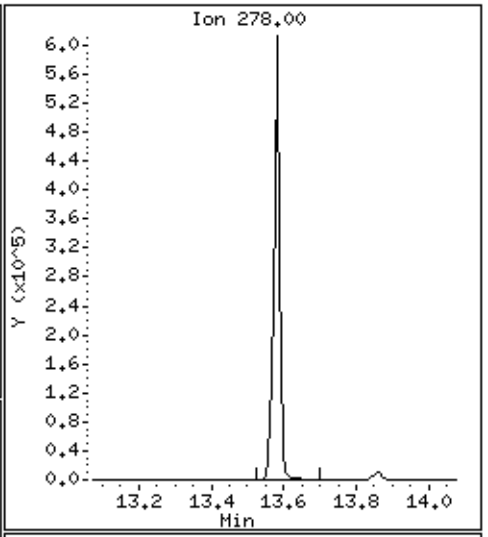
Column phase: HPMS-5

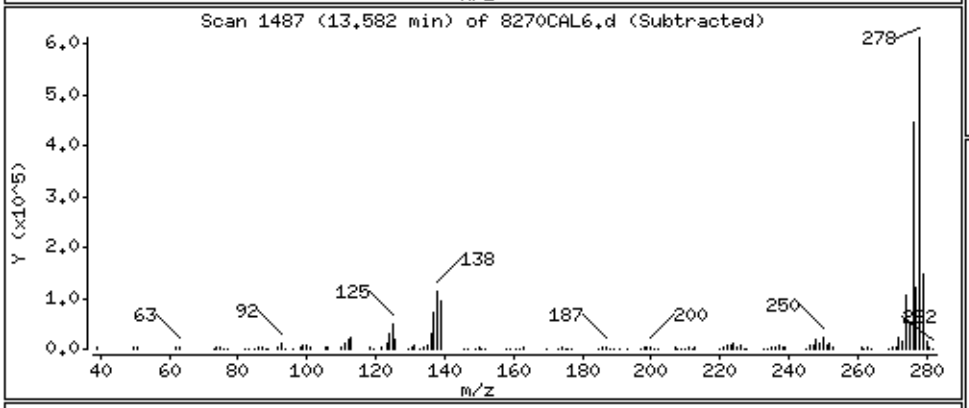
Column diameter: 0.25

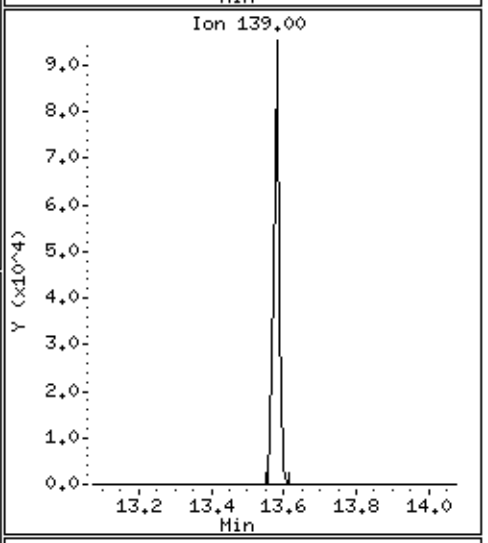
134 Dibenz[a,h]anthracene

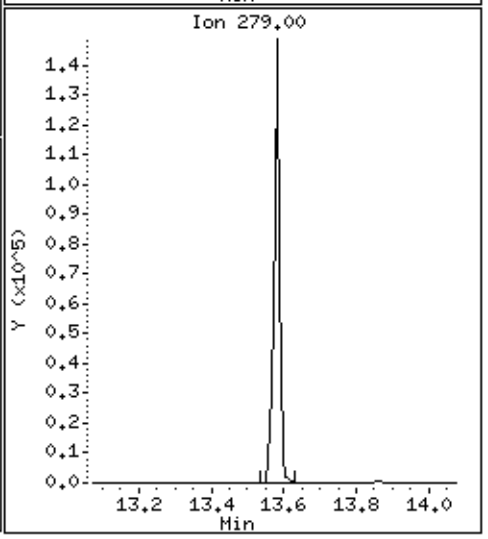
Concentration: 72.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL6.d

Date : 14-NOV-2012 23:01

Client ID: 8270CAL6

Instrument: smsd04.i

Sample Info: 47764

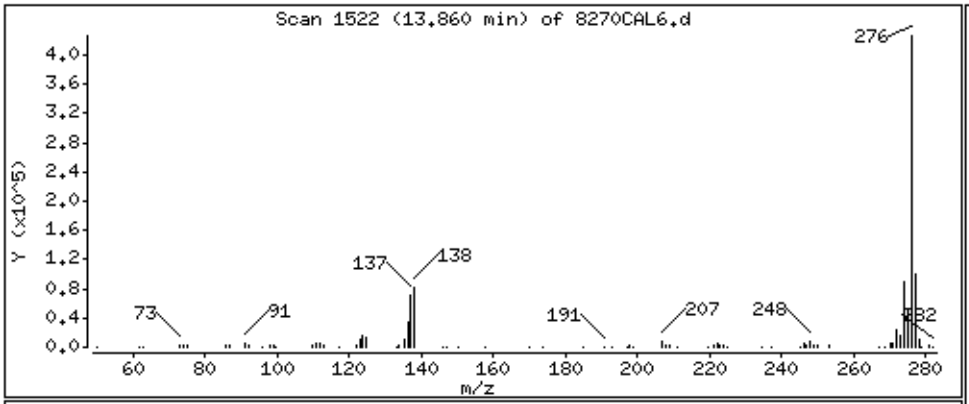
Operator: MJ

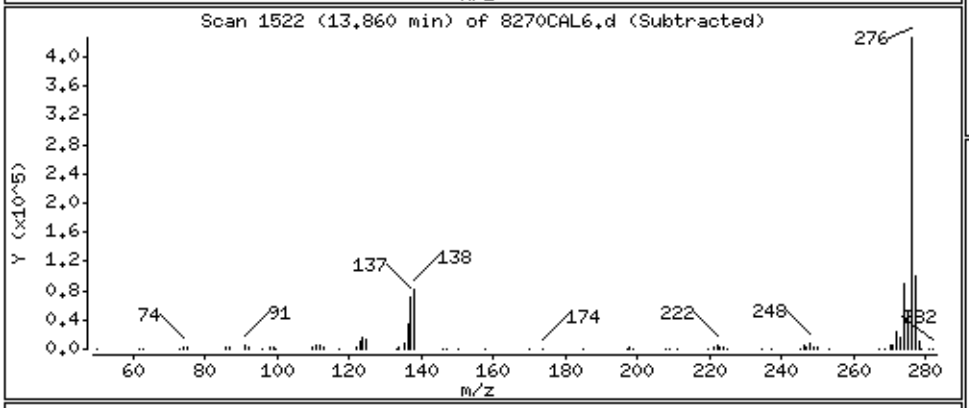
Column phase: HPMS-5

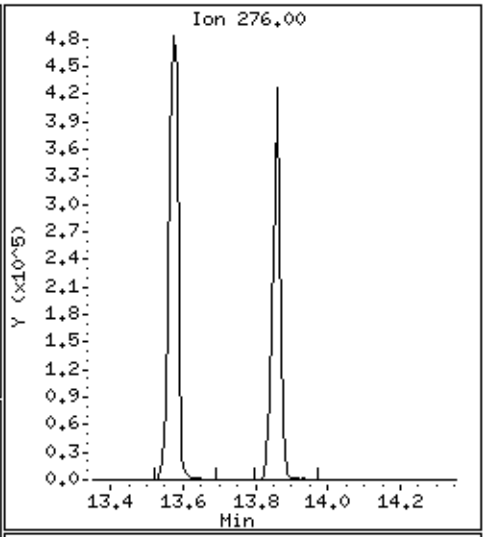
Column diameter: 0.25

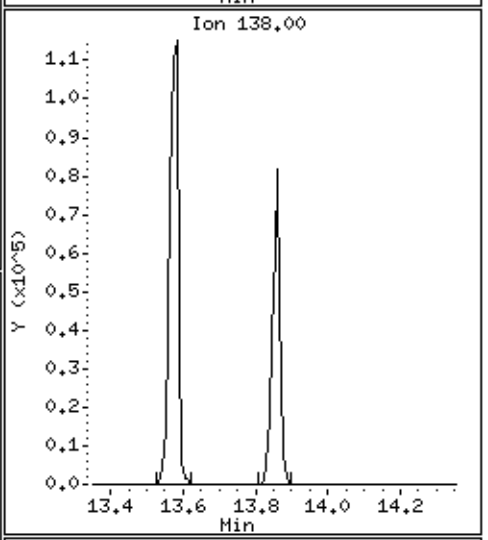
135 Benzo[g,h,i]perylene

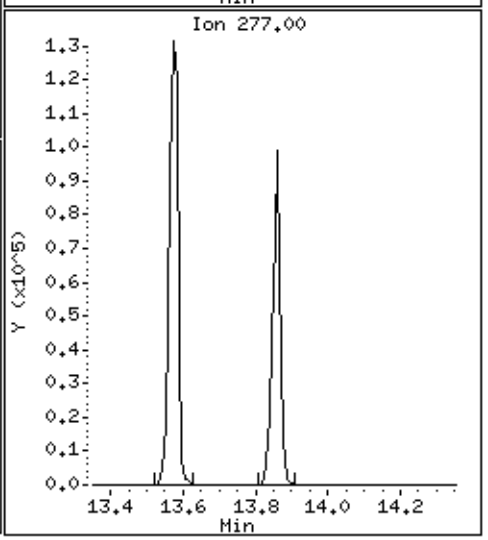
Concentration: 79.7 ug/kg











PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d
Lab Smp Id: 47765 Client Smp ID: 8270CAL5
Inj Date : 14-NOV-2012 23:22 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47765
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270bcs.m
Meth Date : 26-Nov-2012 13:58 smsd04.i Quant Type: ISTD
Cal Date : 15-OCT-2012 13:59 Cal File: AP9CAL5.d
Als bottle: 23 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8270caln.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Pyridine						CAS #: 110-86-1		
2.228	2.228 (0.519)		79	206814	60.0000	59.0	80.00- 120.00	100.00
2.228	2.228 (0.519)		52	136724			35.30- 95.30	66.11
M 16 Cresols (Total)						CAS #: 1319-77-3		
				363240	120.000			(a)
1 N-Nitrosodimethylamine						CAS #: 62-75-9		
2.220	2.220 (0.517)		42	92510	60.0000	59.7	80.00- 120.00	100.00
2.221	2.220 (0.517)		74	118518			97.07- 157.07	128.11
2.220	2.221 (0.517)		44	4140			0.00- 34.98	4.48
$ 6 2-Fluorophenol (SURR)						CAS #: 367-12-4		
3.247	3.246 (0.756)		112	365837	120.000	116	80.00- 120.00	100.00
3.247	3.246 (0.756)		64	223685			32.62- 92.62	61.14
$ 11 Phenol-d5 (SURR)						CAS #: 4165-62-2		
4.008	4.006 (0.933)		99	463978	120.000	115	80.00- 120.00	100.00
4.008	4.006 (0.933)		42	91741			0.00- 49.74	19.77
4.008	4.006 (0.933)		71	196298			12.66- 72.66	42.31

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
13 Phenol						CAS #: 108-95-2		
4.018	4.016	(0.935)	94	268918	60.0000	58.2	80.00- 120.00	100.00
4.017	4.016	(0.935)	65	77976			0.94- 60.94	29.00
4.017	4.015	(0.935)	66	138156			21.40- 81.40	51.37
10 Aniline						CAS #: 62-53-3		
4.047	4.046	(0.942)	93	259017	60.0000	61.6	80.00- 120.00	100.00
4.047	4.046	(0.942)	65	59650			0.00- 50.97	23.03
4.047	4.046	(0.942)	66	108920			12.95- 72.95	42.05
14 Bis(2-Chloroethyl)ether						CAS #: 111-44-4		
4.094	4.094	(0.953)	93	181969	60.0000	59.7	80.00- 120.00	100.00
4.094	4.093	(0.953)	63	137278			43.04- 103.04	75.44
4.094	4.094	(0.953)	95	60980			1.90- 61.90	33.51
15 2-Chlorophenol						CAS #: 95-57-8		
4.143	4.142	(0.964)	128	177415	60.0000	59.2	80.00- 120.00	100.00
4.143	4.142	(0.964)	64	96257			24.14- 84.14	54.26
4.143	4.142	(0.964)	130	57393			2.15- 62.15	32.35
17 1,3-Dichlorobenzene						CAS #: 541-73-1		
4.268	4.267	(0.993)	146	210660	60.0000	58.8	80.00- 120.00	100.00
4.268	4.267	(0.993)	148	134770			34.15- 94.15	63.98
4.268	4.267	(0.993)	111	91782			14.34- 74.34	43.57
* 18 1,4-Dichlorobenzene-d4						CAS #: 3855-82-1		
4.297	4.294	(1.000)	152	94086	40.0000		80.00- 120.00	100.00
4.296	4.294	(1.000)	115	59606			34.81- 94.81	63.35
4.297	4.294	(1.000)	150	169657			126.51- 186.51	180.32
19 1,4-Dichlorobenzene						CAS #: 106-46-7		
4.311	4.311	(1.003)	146	218041	60.0000	58.6	80.00- 120.00	100.00
4.311	4.311	(1.003)	148	141171			36.10- 96.10	64.75
4.311	4.311	(1.003)	111	95524			14.95- 74.95	43.81
21 Benzyl alcohol						CAS #: 100-51-6		
4.431	4.429	(1.031)	108	120441	60.0000	58.9	80.00- 120.00	100.00(M)
4.429	4.429	(1.031)	79	187485			126.03- 186.03	155.67
4.430	4.429	(1.031)	77	124493			76.75- 136.75	103.36
20 1,2-Dichlorobenzene						CAS #: 95-50-1		
4.479	4.478	(1.042)	146	202159	60.0000	58.7	80.00- 120.00	100.00
4.479	4.478	(1.042)	148	128265			33.36- 93.36	63.45
4.479	4.478	(1.042)	111	95015			18.07- 78.07	47.00
22 2-Methylphenol						CAS #: 95-48-7		
4.539	4.538	(1.056)	107	144848	60.0000	58.9	80.00- 120.00	100.00
4.539	4.538	(1.056)	108	163896			83.56- 143.56	113.15
4.539	4.538	(1.056)	79	83744			27.79- 87.79	57.82
23 2,2'-oxybis(1-chloropropane)						CAS #: 108-60-1		
4.571	4.571	(1.064)	45	232107	60.0000	60.6	80.00- 120.00	100.00
4.571	4.571	(1.064)	77	41698			0.00- 47.34	17.96

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
23 2,2'-oxybis(1-chloropropane) (continued)								
4.572	4.571 (1.064)		121	62791			0.00- 56.71	27.05
28 4-Methylphenol						CAS #: 106-44-5		
4.670	4.668 (1.087)		107	218392	60.0000	58.6	80.00- 120.00	100.00
4.670	4.668 (1.087)		108	177104			51.88- 111.88	81.09
4.670	4.668 (1.087)		79	59697			0.00- 57.76	27.33
26 N-Nitrosodinpropylamine						CAS #: 621-64-7		
4.699	4.699 (1.094)		70	158539	60.0000	61.0	80.00- 120.00	100.00(M)
4.701	4.699 (1.094)		42	82264			21.53- 81.53	51.89
4.701	4.699 (1.094)		130	33418			0.00- 51.40	21.08
30 Hexachloroethane						CAS #: 67-72-1		
4.754	4.753 (1.106)		117	93268	60.0000	59.8	80.00- 120.00	100.00
4.754	4.754 (1.106)		201	87910			63.39- 123.39	94.26
4.754	4.754 (1.106)		199	56038			26.40- 86.40	60.08
$ 31 Nitrobenzene-d5 (SURR)						CAS #: 4165-60-0		
4.819	4.818 (0.881)		82	239697	60.0000	58.9	80.00- 120.00	100.00
4.819	4.818 (0.881)		128	88940			6.68- 66.68	37.11
4.819	4.818 (0.881)		54	116759			19.12- 79.12	48.71
32 Nitrobenzene						CAS #: 98-95-3		
4.835	4.834 (0.884)		77	239717	60.0000	60.5	80.00- 120.00	100.00
4.835	4.835 (0.884)		123	88031			6.73- 66.73	36.72
4.835	4.834 (0.884)		65	33965			0.00- 43.84	14.17
34 Isophorone						CAS #: 78-59-1		
5.048	5.046 (0.923)		82	417648	60.0000	60.5	80.00- 120.00	100.00
5.048	5.047 (0.923)		138	65559			0.00- 45.91	15.70
5.048	5.046 (0.923)		95	33083			0.00- 37.77	7.92
35 2-Nitrophenol						CAS #: 88-75-5		
5.128	5.128 (0.938)		139	100995	60.0000	59.8	80.00- 120.00	100.00
5.128	5.127 (0.938)		65	65074			33.65- 93.65	64.43
5.128	5.127 (0.938)		109	44161			13.08- 73.08	43.73
36 2,4-Dimethylphenol						CAS #: 105-67-9		
5.159	5.158 (0.944)		122	149380	60.0000	59.6	80.00- 120.00	100.00
5.159	5.158 (0.944)		107	198556			100.42- 160.42	132.92
5.159	5.158 (0.944)		121	87688			27.73- 87.73	58.70
38 Bis(2-Chloroethoxy)methane						CAS #: 111-91-1		
5.253	5.252 (0.961)		93	237132	60.0000	59.2	80.00- 120.00	100.00
5.253	5.252 (0.961)		95	78322			2.66- 62.66	33.03
5.253	5.252 (0.961)		123	34358			0.00- 43.79	14.49
40 Benzoic Acid						CAS #: 65-85-0		
5.276	5.267 (0.965)		122	101251	60.0000	57.4	80.00- 120.00	100.00
5.276	5.267 (0.965)		105	147522			114.27- 174.27	145.70
5.275	5.267 (0.965)		77	129359			94.81- 154.81	127.76

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	41 2,4-Dichlorophenol					CAS #: 120-83-2		
5.343	5.342	(0.977)	162	170590	60.0000	58.8	80.00- 120.00	100.00
5.343	5.342	(0.977)	164	110080			34.34- 94.34	64.53
5.343	5.342	(0.977)	98	64271			8.30- 68.30	37.68
	42 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
5.428	5.427	(0.993)	180	187411	60.0000	58.5	80.00- 120.00	100.00
5.428	5.427	(0.993)	182	179603			69.17- 129.17	95.83
5.428	5.427	(0.993)	145	56231			0.41- 60.41	30.00
*	43 Naphthalene-d8					CAS #: 1146-65-2		
5.468	5.463	(1.000)	136	316942	40.0000		80.00- 120.00	100.00
5.468	5.463	(1.000)	68	23527			0.00- 37.51	7.42
	44 Naphthalene					CAS #: 91-20-3		
5.486	5.486	(1.003)	128	504204	60.0000	58.8	80.00- 120.00	100.00
5.486	5.485	(1.003)	129	55160			0.00- 40.78	10.94
5.486	5.486	(1.003)	127	66866			0.00- 42.17	13.26
	45 4-Chloroaniline					CAS #: 106-47-8		
5.552	5.552	(1.015)	127	210056	60.0000	59.4	80.00- 120.00	100.00
5.552	5.552	(1.015)	129	67683			2.29- 62.29	32.22
5.552	5.551	(1.015)	65	77697			8.57- 68.57	36.99
	48 Hexachlorobutadiene					CAS #: 87-68-3		
5.654	5.654	(1.034)	225	132697	60.0000	58.4	80.00- 120.00	100.00
5.654	5.654	(1.034)	223	84739			31.81- 91.81	63.86
5.654	5.654	(1.034)	227	85873			34.78- 94.78	64.71
	51 4-Chloro-3-methylphenol					CAS #: 59-50-7		
6.010	6.009	(1.099)	107	183348	60.0000	59.0	80.00- 120.00	100.00
6.010	6.009	(1.099)	144	43466			0.00- 53.54	23.71
6.010	6.009	(1.099)	142	135481			43.91- 103.91	73.89
	53 2-Methylnaphthalene					CAS #: 91-57-6		
6.143	6.141	(1.123)	142	348276	60.0000	59.0	80.00- 120.00	100.00
6.143	6.141	(1.123)	141	296681			55.50- 115.50	85.19
	54 1-Methylnaphthalene					CAS #: 90-12-0		
6.248	6.247	(1.143)	142	318662	60.0000	58.5	80.00- 120.00	100.00
6.248	6.247	(1.143)	141	285791			58.78- 118.78	89.68
	55 Hexachlorocyclopentadiene					CAS #: 77-47-4		
6.361	6.360	(0.887)	237	128331	60.0000	61.9	80.00- 120.00	100.00
6.360	6.360	(0.887)	235	80063			33.42- 93.42	62.39
6.361	6.360	(0.887)	272	17294			0.00- 41.88	13.48
	57 2,4,6-Trichlorophenol					CAS #: 88-06-2		
6.439	6.438	(0.898)	196	130106	60.0000	59.6	80.00- 120.00	100.00
6.439	6.438	(0.898)	198	125001			67.54- 127.54	96.08
6.439	6.438	(0.898)	200	40326			1.18- 61.18	30.99
	58 2,4,5-Trichlorophenol					CAS #: 95-95-4		
6.473	6.472	(0.903)	196	142478	60.0000	58.8	80.00- 120.00	100.00

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	58 2,4,5-Trichlorophenol (continued)							
6.473	6.472 (0.903)		198	133986			64.33- 124.33	94.04
6.473	6.472 (0.903)		97	84872			27.55- 87.55	59.57
$ 59	2-Fluorobiphenyl (SURR)					CAS #: 321-60-8		
6.516	6.514 (0.909)		172	439543	60.0000	59.2	80.00- 120.00	100.00
6.516	6.514 (0.909)		171	151996			4.90- 64.90	34.58
	62 2-Chloronaphthalene					CAS #: 91-58-7		
6.612	6.610 (0.922)		162	363428	60.0000	59.3	80.00- 120.00	100.00
6.612	6.610 (0.922)		164	118343			1.75- 61.75	32.56
6.611	6.610 (0.922)		127	143912			8.71- 68.71	39.60
	63 2-Nitroaniline					CAS #: 88-74-4		
6.741	6.741 (0.940)		65	133072	60.0000	61.6	80.00- 120.00	100.00
6.741	6.741 (0.940)		92	86383			35.13- 95.13	64.91
6.741	6.741 (0.940)		138	119881			59.53- 119.53	90.09
	65 Dimethylphthalate					CAS #: 131-11-3		
6.951	6.950 (0.969)		163	437989	60.0000	61.8	80.00- 120.00	100.00
6.951	6.950 (0.969)		194	25383			0.00- 35.76	5.80
6.951	6.949 (0.969)		164	42591			0.00- 39.66	9.72
	68 Acenaphthylene					CAS #: 208-96-8		
7.021	7.020 (0.979)		152	583596	60.0000	59.4	80.00- 120.00	100.00
7.021	7.020 (0.979)		151	115715			0.00- 50.20	19.83
7.021	7.020 (0.979)		153	74973			0.00- 43.02	12.85
	67 2,6-Dinitrotoluene					CAS #: 606-20-2		
7.016	7.015 (0.978)		165	104986	60.0000	61.2	80.00- 120.00	100.00
7.016	7.015 (0.978)		89	70873			39.45- 99.45	67.51
7.017	7.016 (0.979)		63	104707			74.66- 134.66	99.73
	69 3-Nitroaniline					CAS #: 99-09-2		
7.148	7.146 (0.997)		138	94903	60.0000	60.9	80.00- 120.00	100.00
7.148	7.146 (0.997)		108	11442			0.00- 42.35	12.06
7.147	7.145 (0.997)		92	126246			104.62- 164.62	133.03
* 70	Acenaphthene-d10					CAS #: 15067-26-2		
7.171	7.167 (1.000)		164	202489	40.0000		80.00- 120.00	100.00
7.171	7.168 (1.000)		162	192740			66.12- 126.12	95.19
7.171	7.167 (1.000)		160	86659			13.21- 73.21	42.80
	71 Acenaphthene					CAS #: 83-32-9		
7.201	7.201 (1.004)		154	329362	60.0000	59.1	80.00- 120.00	100.00
7.201	7.200 (1.004)		153	353455			77.18- 137.18	107.32
7.201	7.200 (1.004)		152	170706			21.21- 81.21	51.83
	72 2,4-Dinitrophenol					CAS #: 51-28-5		
7.243	7.243 (1.010)		184	60124	60.0000	63.9	80.00- 120.00	100.00
7.243	7.242 (1.010)		63	45782			48.18- 108.18	76.15
7.243	7.242 (1.010)		154	39456			33.05- 93.05	65.62

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
74 4-Nitrophenol						CAS #: 100-02-7		
7.306	7.303 (1.019)		109	85623	60.0000	60.4	80.00- 120.00	100.00
7.306	7.303 (1.019)		139	80342			61.80- 121.80	93.83
7.305	7.303 (1.019)		65	97297			80.41- 140.41	113.63
75 Dibenzofuran						CAS #: 132-64-9		
7.356	7.355 (1.026)		168	511324	60.0000	59.8	80.00- 120.00	100.00
7.355	7.355 (1.026)		139	212390			10.69- 70.69	41.54
76 2,4-Dinitrotoluene						CAS #: 121-14-2		
7.394	7.392 (1.031)		165	127124	60.0000	60.0	80.00- 120.00	100.00
7.393	7.392 (1.031)		63	67580			23.55- 83.55	53.16
7.394	7.392 (1.031)		89	105808			51.82- 111.82	83.23
80 Diethylphthalate						CAS #: 84-66-2		
7.641	7.640 (1.066)		149	427766	60.0000	60.0	80.00- 120.00	100.00
7.641	7.640 (1.066)		177	93613			0.00- 51.79	21.88
7.641	7.640 (1.066)		150	51654			0.00- 42.28	12.08
81 Fluorene						CAS #: 86-73-7		
7.691	7.690 (1.073)		166	459339	60.0000	59.1	80.00- 120.00	100.00
7.691	7.690 (1.073)		165	429895			61.04- 121.04	93.59
7.691	7.690 (1.073)		167	62443			0.00- 43.06	13.59
82 4-Chlorophenyl-phenylether						CAS #: 7005-72-3		
7.691	7.690 (1.073)		204	240363	60.0000	58.8	80.00- 120.00	100.00
7.691	7.690 (1.073)		206	80891			2.85- 62.85	33.65
7.690	7.690 (1.072)		141	145430			29.43- 89.43	60.50
84 4-Nitroaniline						CAS #: 100-01-6		
7.752	7.750 (1.081)		138	88939	60.0000	61.8	80.00- 120.00	100.00
7.752	7.749 (1.081)		92	52063			30.30- 90.30	58.54
7.752	7.749 (1.081)		108	101058			85.44- 145.44	113.63
85 4,6-Dinitro-2-methylphenol						CAS #: 534-52-1		
7.792	7.790 (0.906)		198	89959	60.0000	58.9	80.00- 120.00	100.00
7.791	7.789 (0.905)		51	35122			21.07- 81.07	39.04
7.792	7.789 (0.906)		105	39961			14.43- 74.43	44.42
86 N-Nitrosodiphenylamine						CAS #: 86-30-6		
7.816	7.814 (0.908)		169	280289	60.0000	59.0	80.00- 120.00	100.00
7.817	7.815 (0.908)		168	196912			41.33- 101.33	70.25
7.816	7.815 (0.908)		167	97713			5.93- 65.93	34.86
87 1,2-Diphenylhydrazine						CAS #: 122-66-7		
7.846	7.845 (1.094)		77	482760	60.0000	58.3	80.00- 120.00	100.00
7.846	7.845 (1.094)		105	66842			0.00- 44.08	13.85
7.846	7.845 (1.094)		182	113741			0.00- 53.69	23.56
$ 88 2,4,6-Tribromophenol (SURR)						CAS #: 118-79-6		
7.947	7.946 (1.108)		330	160135	120.000	116	80.00- 120.00	100.00
7.947	7.946 (1.108)		332	156375			65.21- 125.21	97.65
7.946	7.945 (1.108)		141	65044			10.78- 70.78	40.62

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
93 4-Bromophenylphenylether						CAS #: 101-55-3		
8.165	8.163 (0.949)		248	137706	60.0000	58.5	80.00- 120.00	100.00
8.165	8.163 (0.949)		250	134371			66.63- 126.63	97.58
8.164	8.162 (0.949)		141	108961			49.24- 109.24	79.13
94 Hexachlorobenzene						CAS #: 118-74-1		
8.309	8.307 (0.966)		284	157474	60.0000	58.9	80.00- 120.00	100.00
8.308	8.307 (0.966)		142	59644			10.52- 70.52	37.88
8.308	8.307 (0.966)		249	50435			1.60- 61.60	32.03
96 Pentachlorophenol						CAS #: 87-86-5		
8.481	8.480 (0.986)		266	100188	60.0000	61.7	80.00- 120.00	100.00
8.481	8.481 (0.986)		264	60482			33.54- 93.54	60.37
8.481	8.481 (0.986)		268	63678			34.39- 94.39	63.56
* 100 Phenanthrene-d10						CAS #: 1517-22-2		
8.604	8.604 (1.000)		188	361373	40.0000		80.00- 120.00	100.00
8.604	8.604 (1.000)		94	38493			0.00- 40.39	10.65
8.604	8.603 (1.000)		80	42726			0.00- 41.55	11.82
101 Phenanthrene						CAS #: 85-01-8		
8.627	8.626 (1.003)		178	601483	60.0000	58.8	80.00- 120.00	100.00
8.627	8.626 (1.003)		179	92124			0.00- 45.20	15.32
8.627	8.626 (1.003)		176	114939			0.00- 48.69	19.11
103 Anthracene						CAS #: 120-12-7		
8.670	8.670 (1.008)		178	537797	60.0000	58.6	80.00- 120.00	100.00
8.670	8.670 (1.008)		179	82064			0.00- 45.53	15.26
8.670	8.670 (1.008)		176	99998			0.00- 49.11	18.59
104 Carbazole						CAS #: 86-74-8		
8.831	8.830 (1.026)		167	542542	60.0000	60.1	80.00- 120.00	100.00
8.830	8.830 (1.026)		139	72334			0.00- 43.72	13.33
8.830	8.830 (1.026)		83	50848			0.00- 39.70	9.37
105 Di-n-butylphthalate						CAS #: 84-74-2		
9.229	9.227 (1.073)		149	758627	60.0000	60.9	80.00- 120.00	100.00
9.229	9.227 (1.073)		150	68245			0.00- 39.16	9.00
9.228	9.227 (1.073)		104	46521			0.00- 36.36	6.13
109 Fluoranthene						CAS #: 206-44-0		
9.799	9.797 (1.139)		202	691228	60.0000	61.1	80.00- 120.00	100.00
9.798	9.796 (1.139)		101	81189			0.00- 41.60	11.75
9.799	9.797 (1.139)		203	120539			0.00- 47.37	17.44
111 Pyrene						CAS #: 129-00-0		
10.017	10.016 (0.893)		202	699567	60.0000	59.6	80.00- 120.00	100.00
10.017	10.016 (0.893)		200	145950			0.00- 50.33	20.86
10.017	10.016 (0.893)		203	124871			0.00- 47.92	17.85
$ 112 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.181	10.179 (0.908)		244	543845	60.0000	57.8	80.00- 120.00	100.00
10.180	10.178 (0.908)		122	59563			0.00- 40.67	10.95

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
$ 112 Terphenyl-d14 (SURR) (continued)								
10.180	10.179	(0.908)	212	42094			0.00- 37.92	7.74
118 Butylbenzylphthalate						CAS #: 85-68-7		
10.692	10.690	(0.953)	149	355942	60.0000	59.6	80.00- 120.00	100.00
10.692	10.691	(0.953)	91	267490			45.72- 105.72	75.15
10.693	10.692	(0.953)	206	77867			0.00- 51.71	21.88
120 Benzo[a]anthracene						CAS #: 56-55-3		
11.196	11.194	(0.998)	228	714684	60.0000	59.6	80.00- 120.00	100.00
11.196	11.194	(0.998)	229	138418			0.00- 49.13	19.37
11.196	11.194	(0.998)	226	187362			0.00- 57.06	26.22
* 121 Chrysene-d12						CAS #: 1719-03-5		
11.215	11.211	(1.000)	240	435603	40.0000		80.00- 120.00	100.00
11.214	11.210	(1.000)	120	44737			0.00- 40.02	10.27
11.215	11.210	(1.000)	236	107584			0.00- 54.50	24.70
123 Chrysene						CAS #: 218-01-9		
11.240	11.238	(1.002)	228	688475	60.0000	58.7	80.00- 120.00	100.00
11.240	11.238	(1.002)	226	200258			0.00- 59.08	29.09
11.240	11.238	(1.002)	229	134569			0.00- 49.34	19.55
124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.277	11.275	(1.006)	149	489419	60.0000	58.9	80.00- 120.00	100.00
11.277	11.276	(1.006)	167	148535			0.00- 59.84	30.35
11.277	11.276	(1.006)	279	37090			0.00- 37.67	7.58
125 Di-n-octylphthalate						CAS #: 117-84-0		
11.845	11.842	(0.945)	149	857415	60.0000	65.0	80.00- 120.00	100.00
11.845	11.843	(0.945)	167	13650			0.00- 31.49	1.59
11.844	11.842	(0.945)	43	75400			0.00- 38.92	8.79
127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.201	12.198	(0.973)	252	664959	60.0000	60.8	80.00- 120.00	100.00
12.200	12.198	(0.973)	253	143812			0.00- 52.25	21.63
12.200	12.219	(0.973)	125	66729			0.00- 48.56	10.04
128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.222	12.220	(0.975)	252	694239	60.0000	55.3	80.00- 120.00	100.00
12.222	12.220	(0.975)	253	155467			0.00- 52.11	22.39
12.222	12.219	(0.975)	125	55559			0.00- 46.79	8.00
129 Benzo[a]pyrene						CAS #: 50-32-8		
12.485	12.484	(0.996)	252	621097	60.0000	58.0	80.00- 120.00	100.00
12.484	12.484	(0.996)	253	140212			0.00- 51.58	22.57
12.484	12.484	(0.996)	125	59366			0.00- 39.66	9.56
* 130 Perylene-d12						CAS #: 1520-96-3		
12.533	12.532	(1.000)	264	381419	40.0000		80.00- 120.00	100.00
12.533	12.533	(1.000)	260	83149			0.00- 52.70	21.80
12.533	12.532	(1.000)	265	81429			0.00- 52.11	21.35

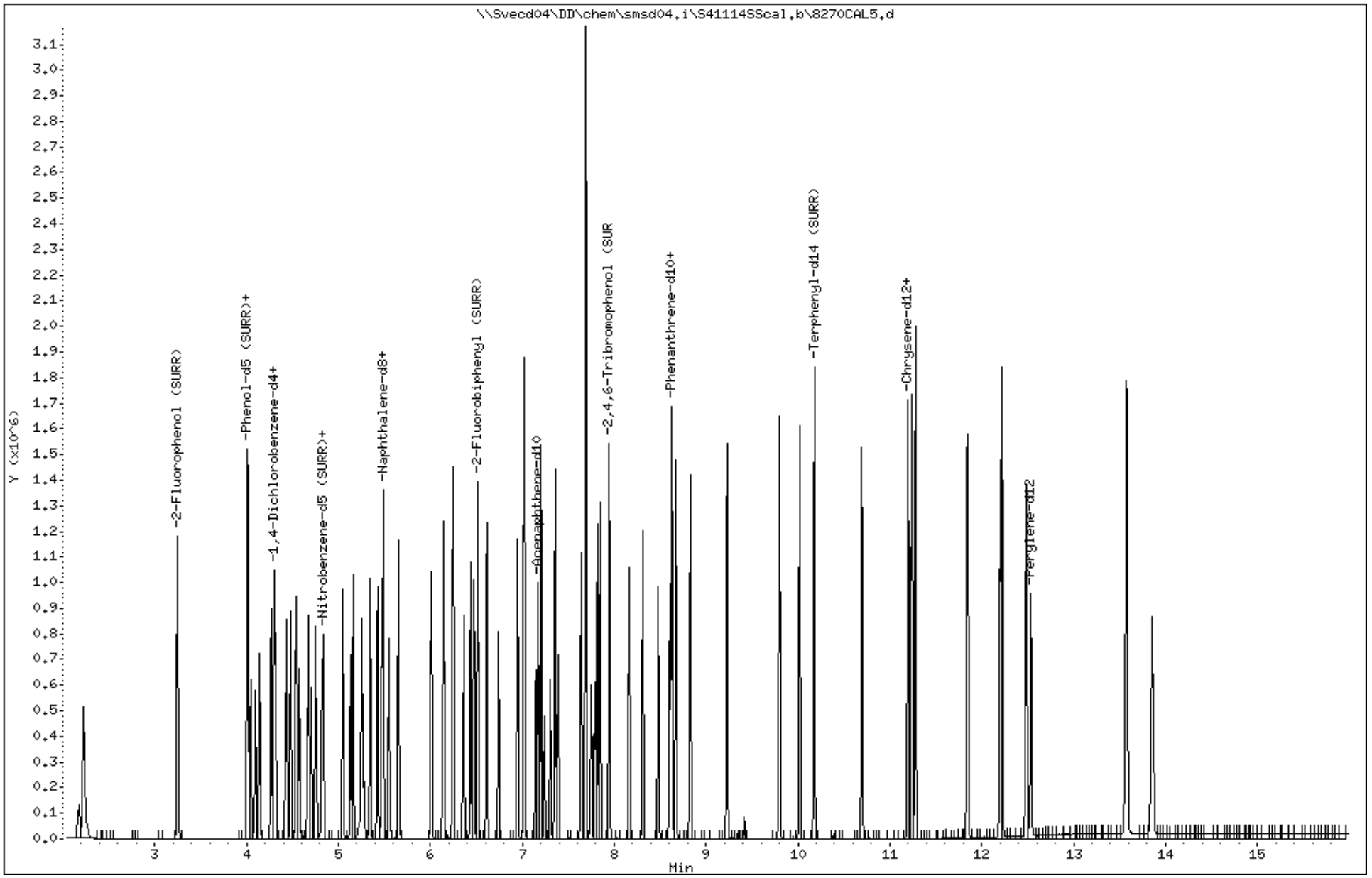
					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
133 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.573	13.569	(1.083)	276	683931	60.0000	57.6	80.00- 120.00	100.00
13.575	13.570	(1.083)	138	155587			0.00- 53.00	22.75
13.574	13.570	(1.083)	277	179973			0.00- 55.19	26.31
134 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.580	13.574	(1.083)	278	582046	60.0000	57.0	80.00- 120.00	100.00
13.580	13.573	(1.083)	139	72769			0.00- 45.33	12.50
13.580	13.574	(1.083)	279	137134			0.00- 53.44	23.56
135 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.858	13.852	(1.106)	276	535083	60.0000	60.4	80.00- 120.00	100.00
13.857	13.852	(1.106)	138	100983			0.00- 48.86	18.87
13.858	13.852	(1.106)	277	125702			0.00- 53.33	23.49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d
Date : 14-NOV-2012 23:22
Client ID: 8270CAL5
Sample Info: 47765

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

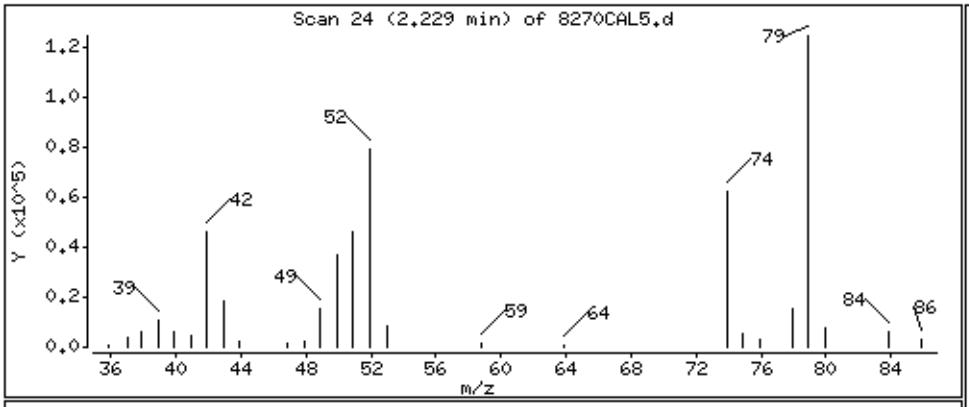
Operator: MJ

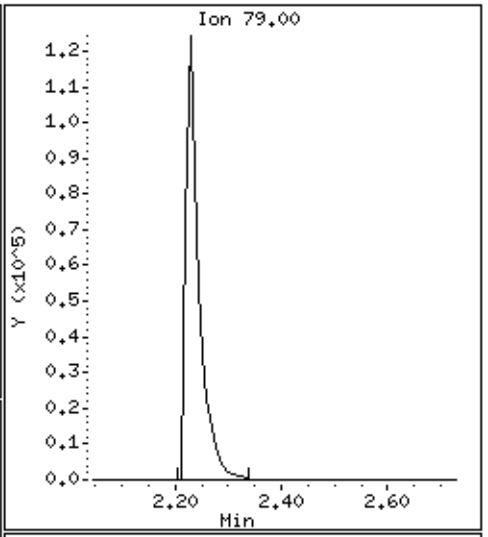
Column phase: HPMS-5

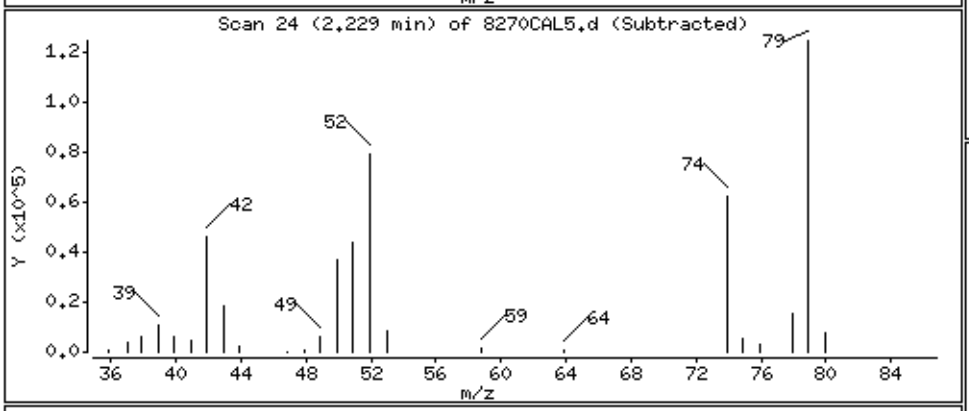
Column diameter: 0.25

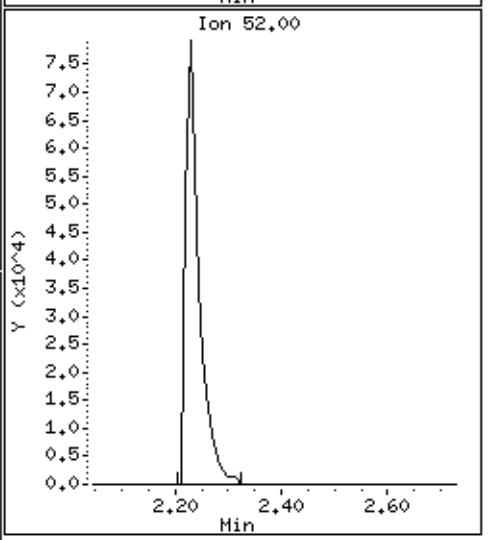
2 Pyridine

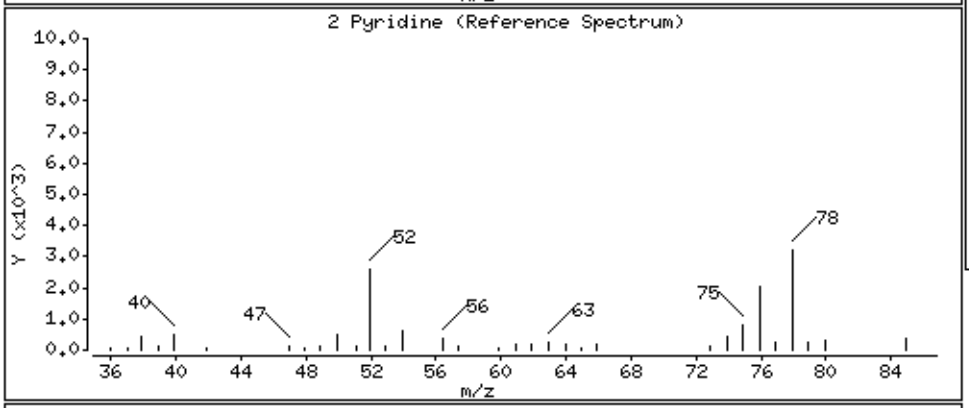
Concentration: 59.0 ug/kg

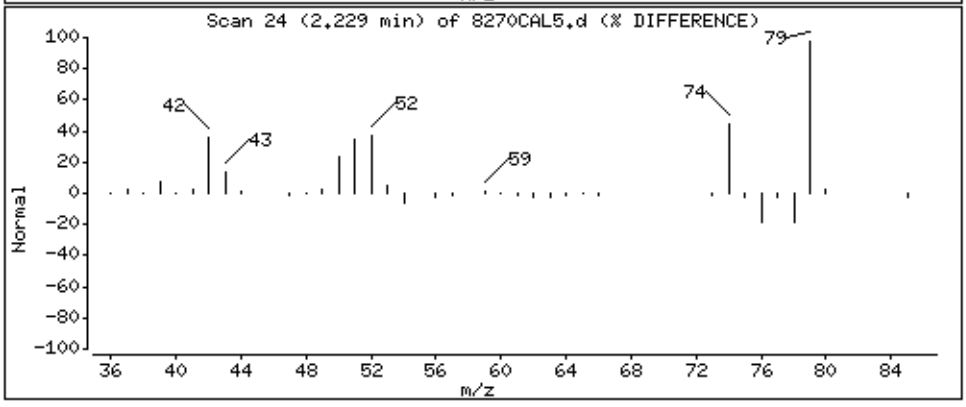












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

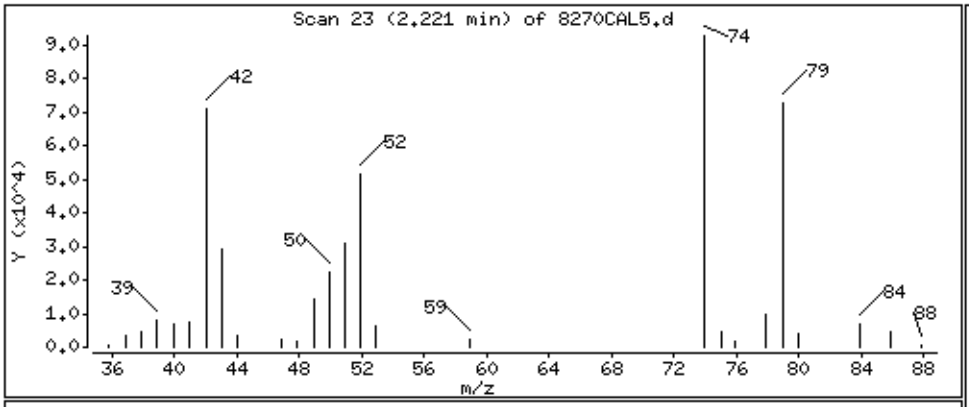
Operator: MJ

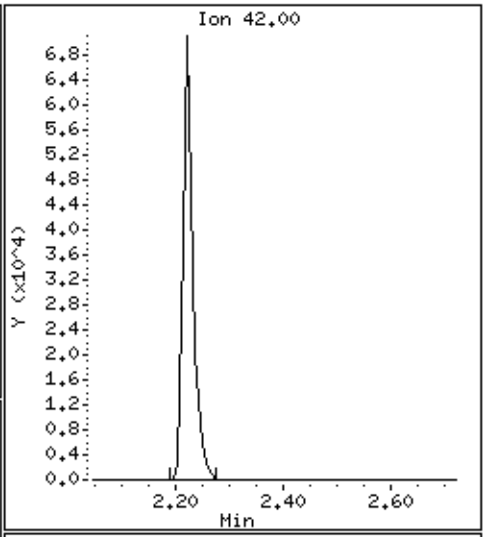
Column phase: HPMS-5

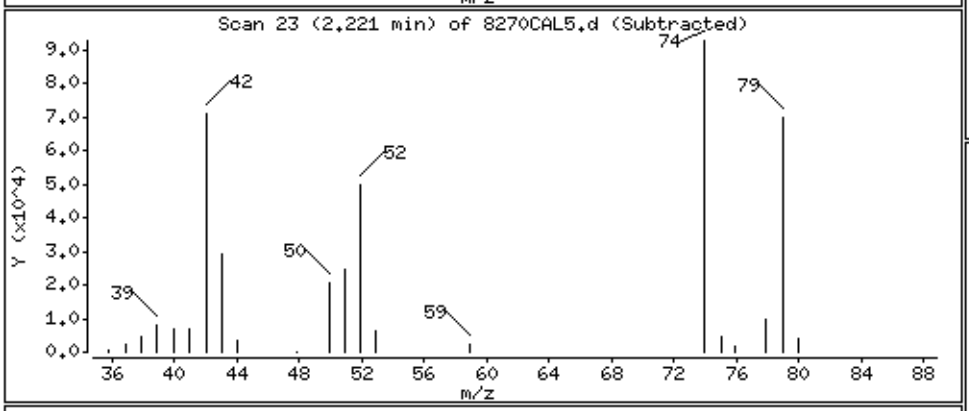
Column diameter: 0.25

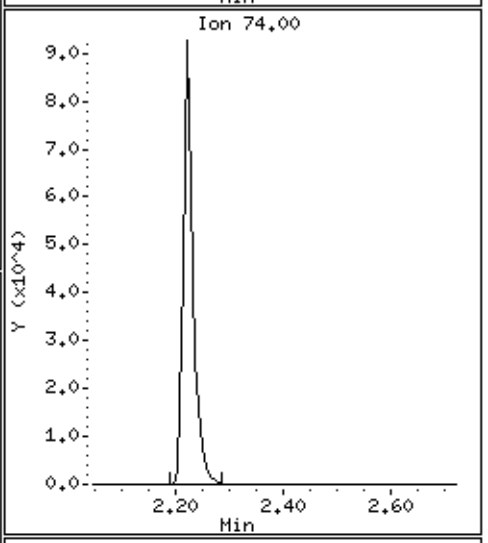
1 N-Nitrosodimethylamine

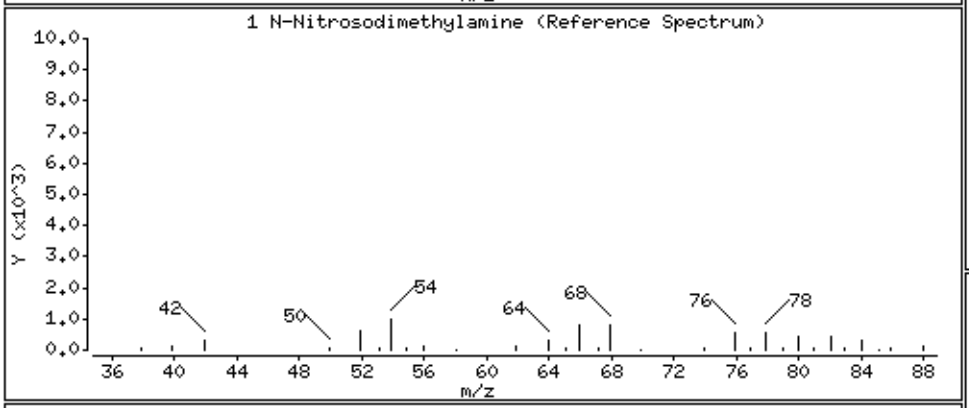
Concentration: 59.7 ug/kg

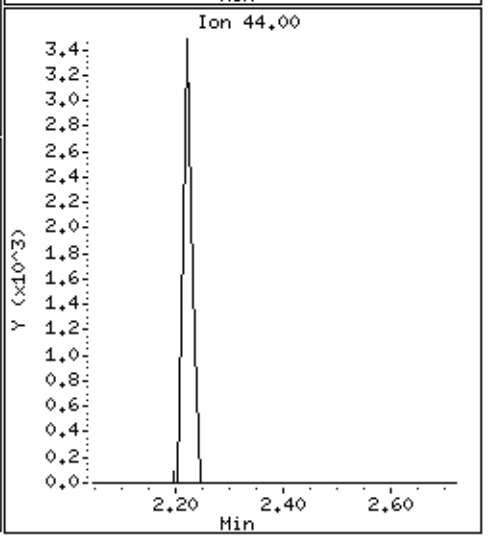


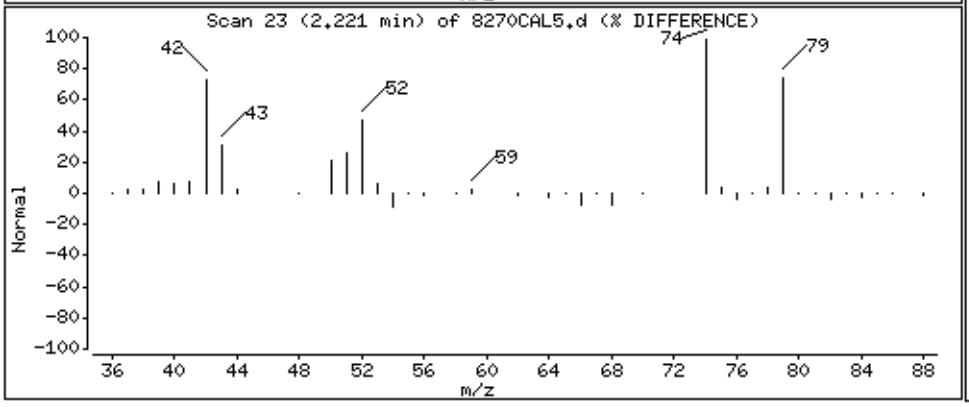












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

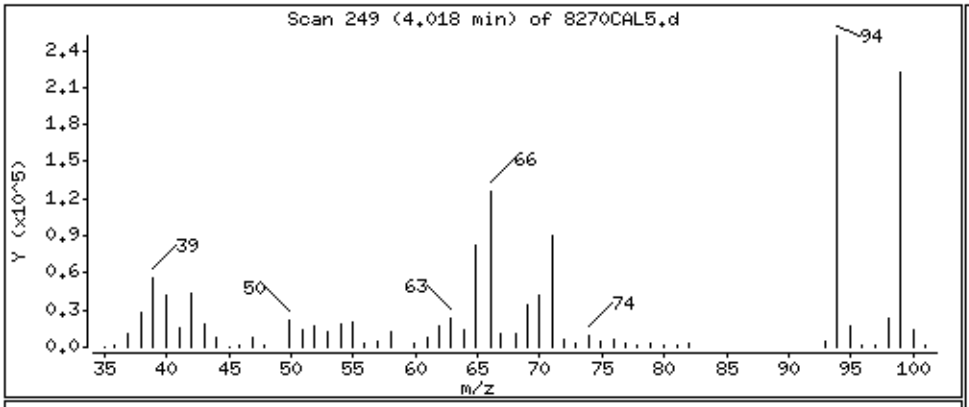
Operator: MJ

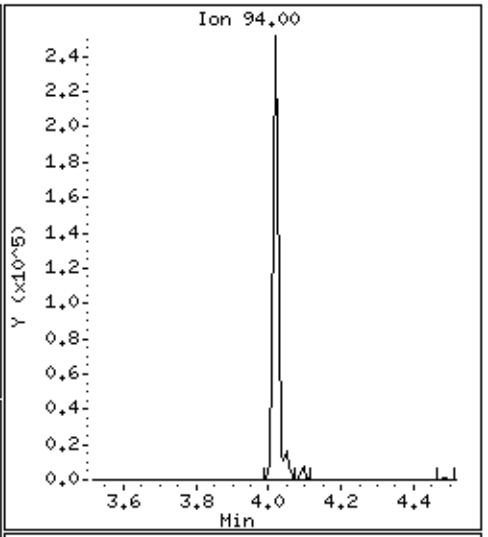
Column phase: HPMS-5

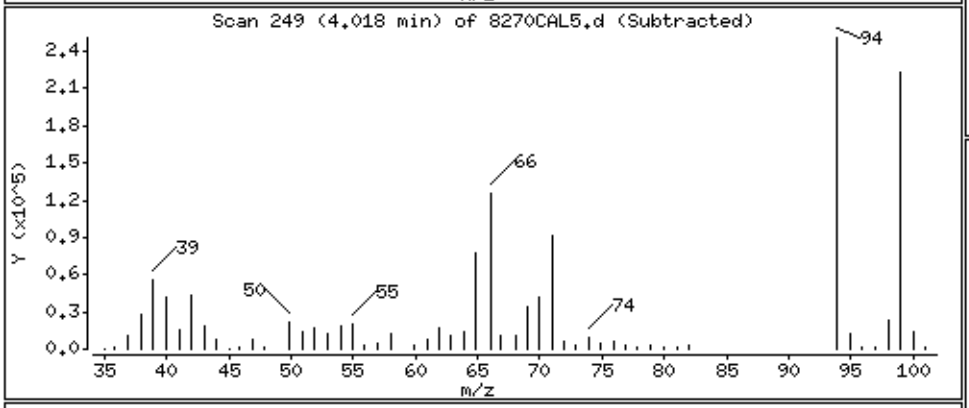
Column diameter: 0.25

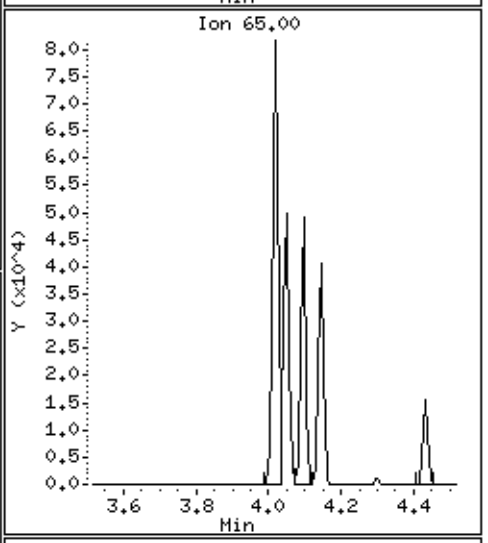
13 Phenol

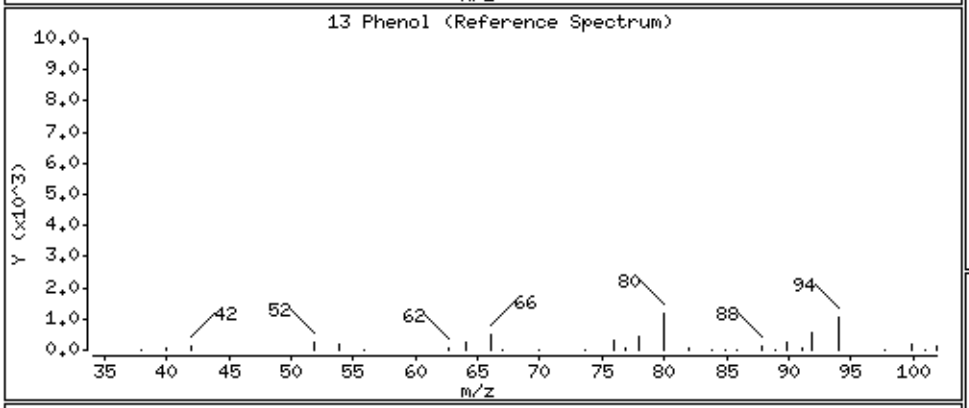
Concentration: 58.2 ug/kg

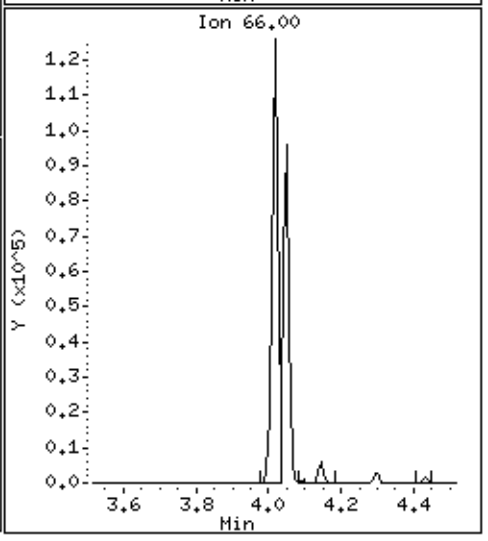


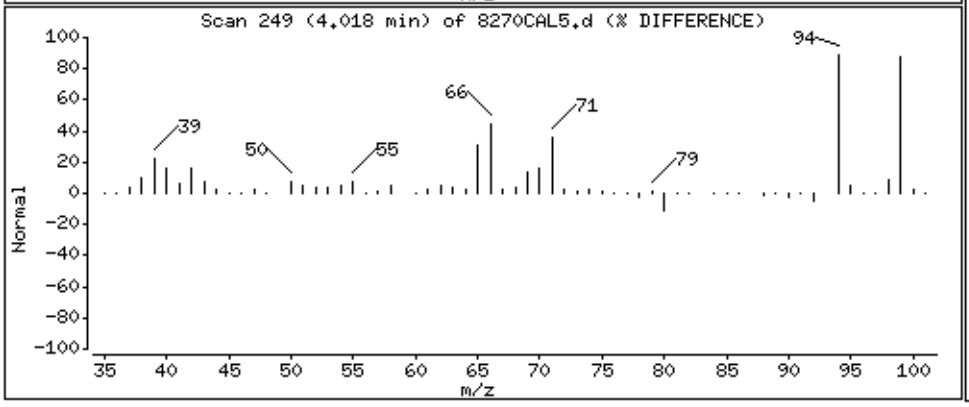












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

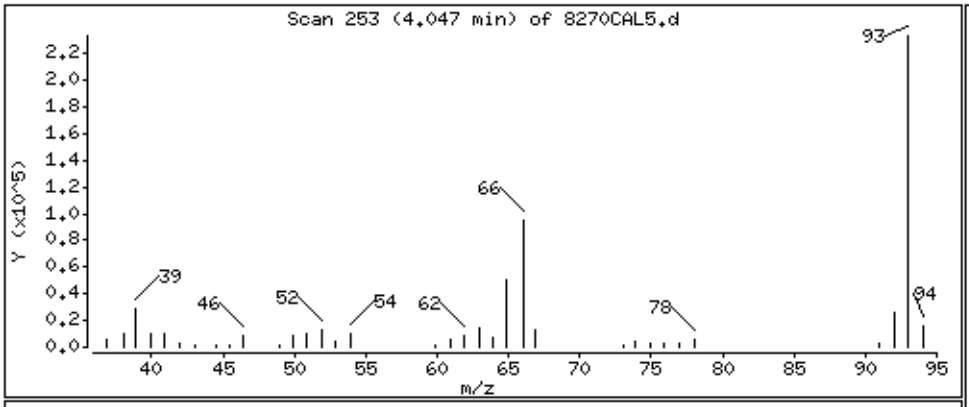
Operator: MJ

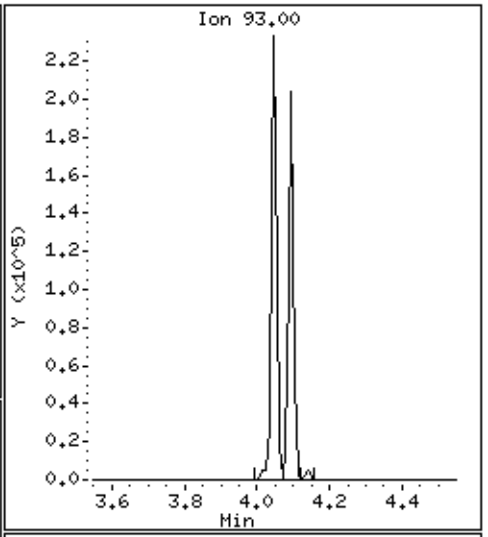
Column phase: HPMS-5

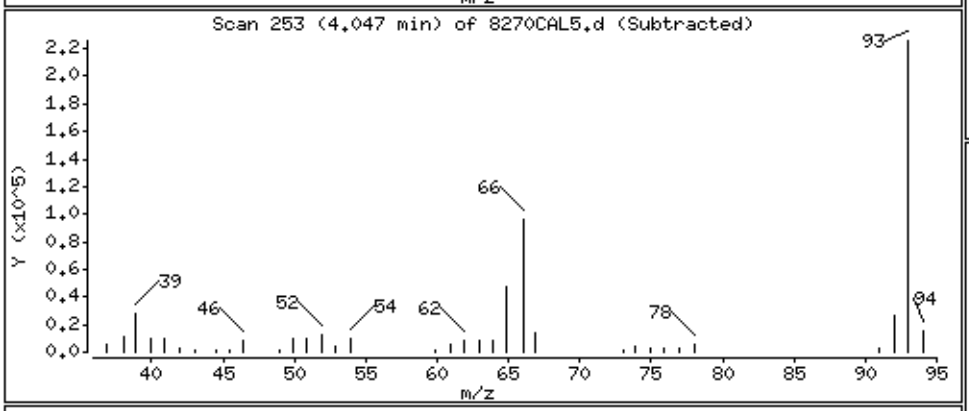
Column diameter: 0.25

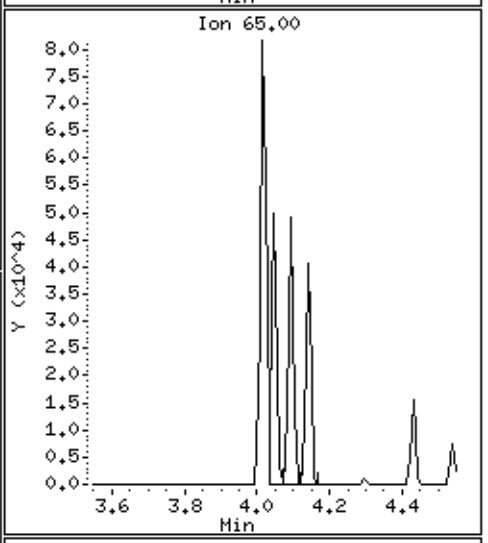
10 Aniline

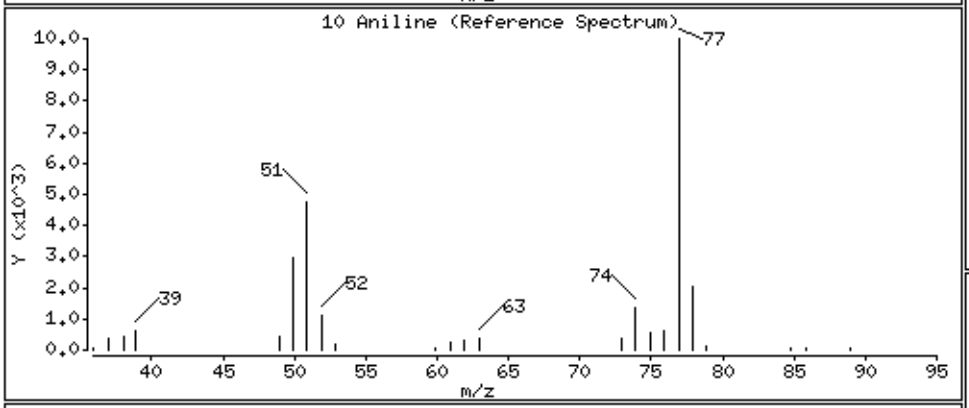
Concentration: 61.6 ug/kg

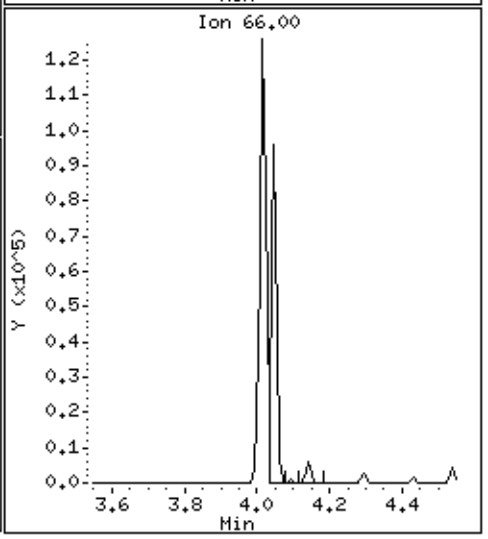


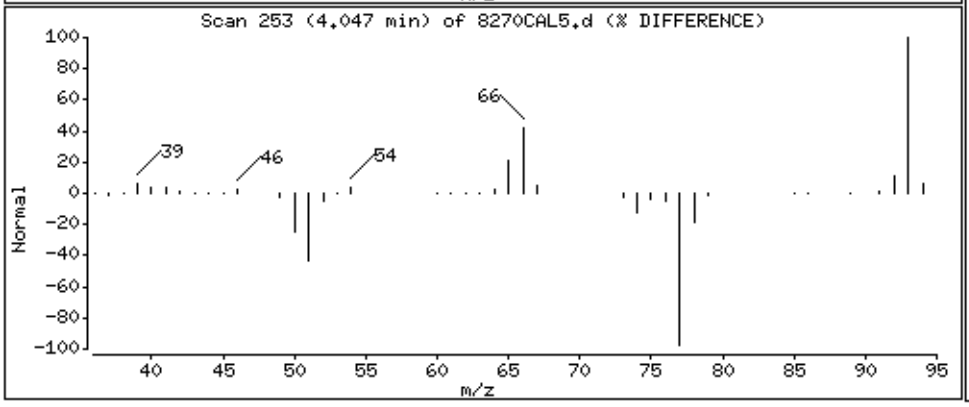












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

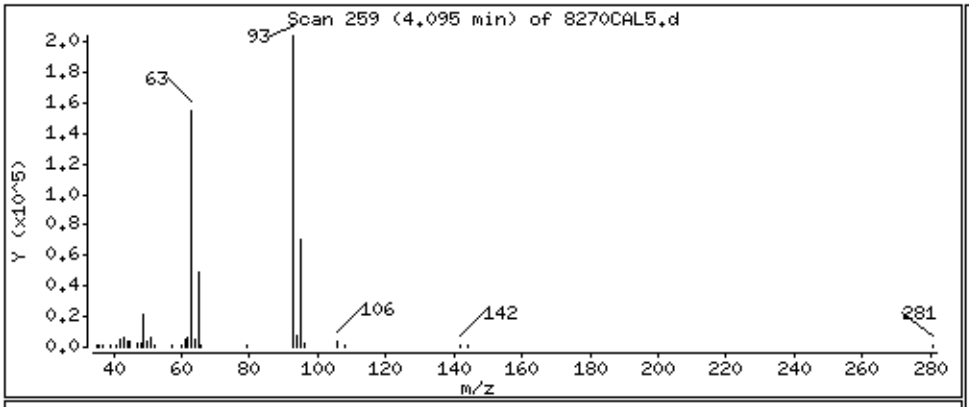
Operator: MJ

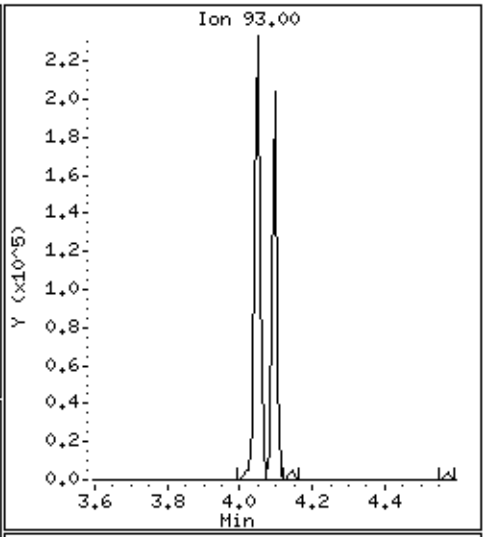
Column phase: HPMS-5

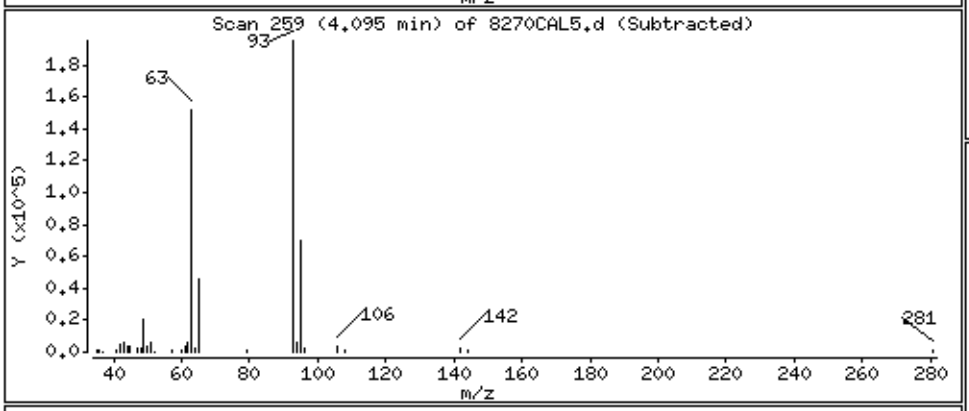
Column diameter: 0.25

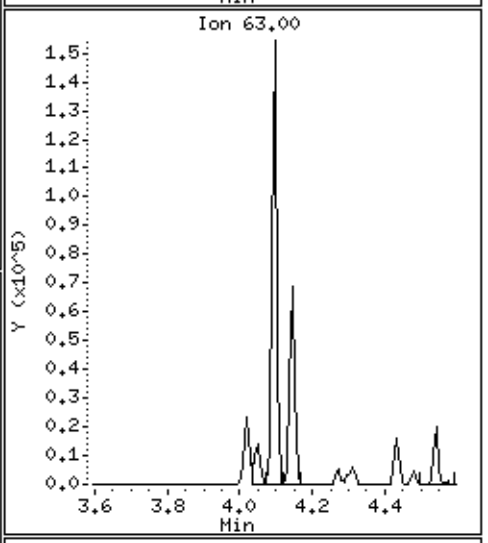
14 Bis(2-Chloroethyl)ether

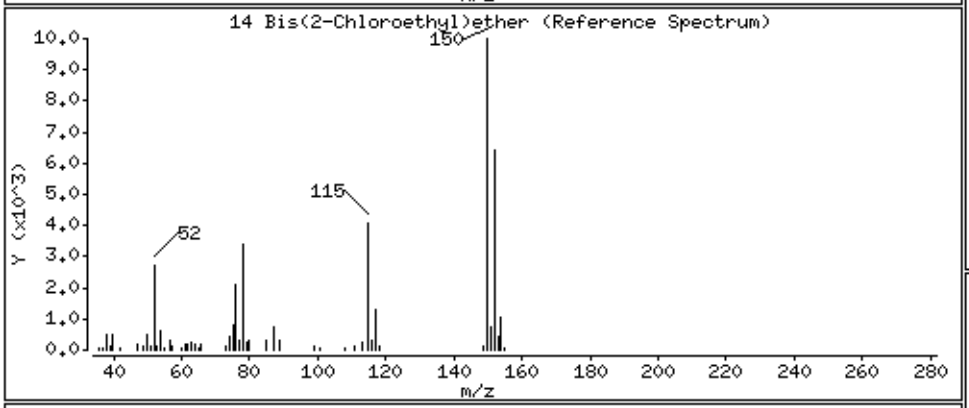
Concentration: 59.7 ug/kg

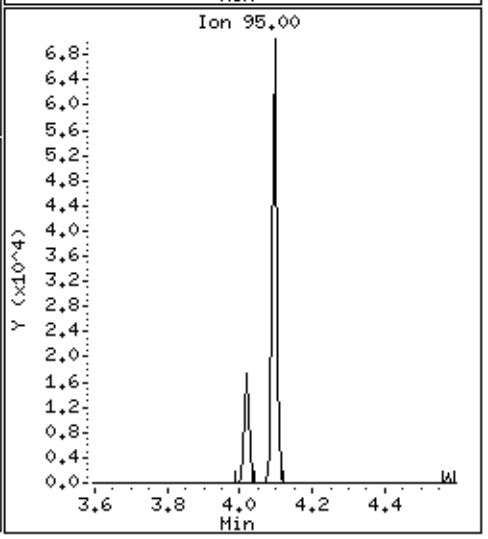


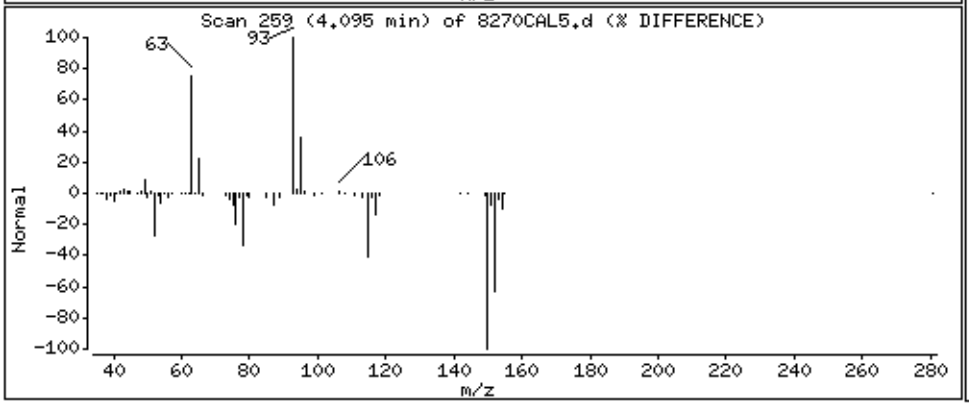












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

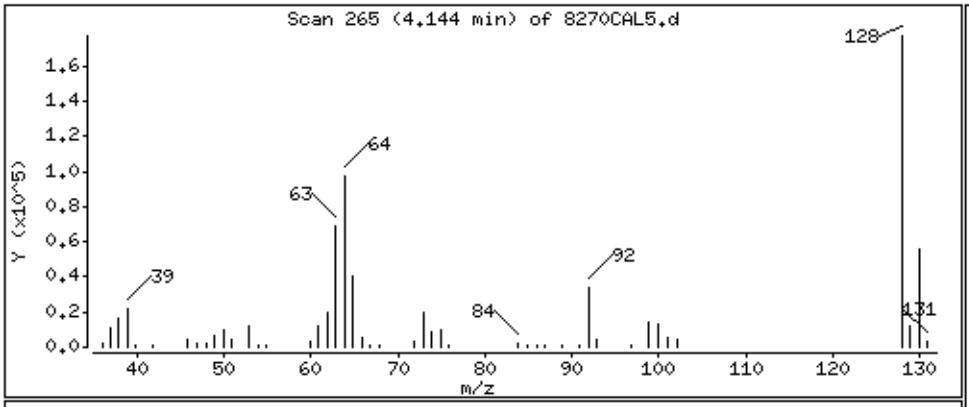
Operator: MJ

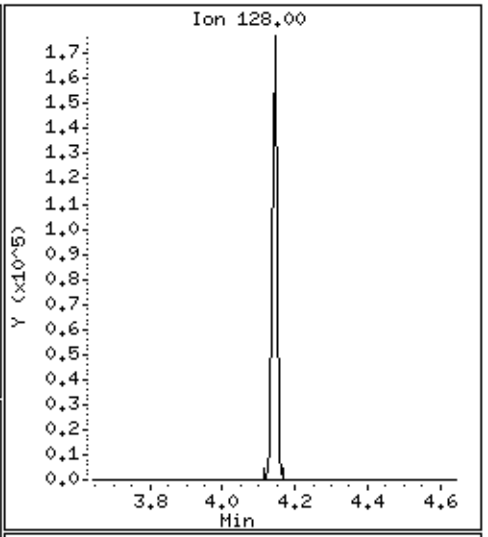
Column phase: HPMS-5

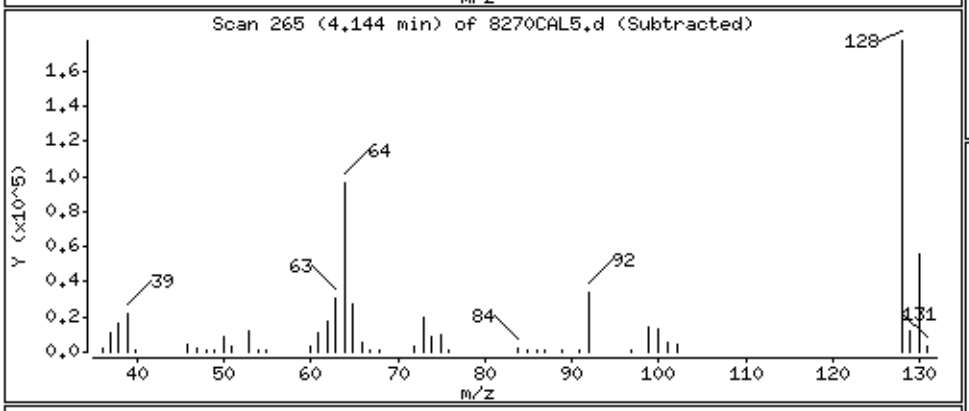
Column diameter: 0.25

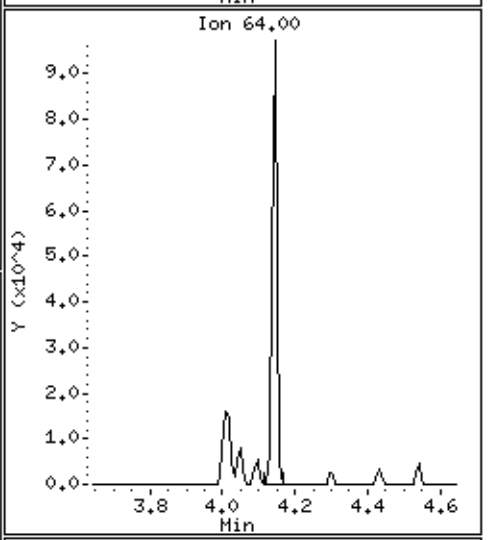
15 2-Chlorophenol

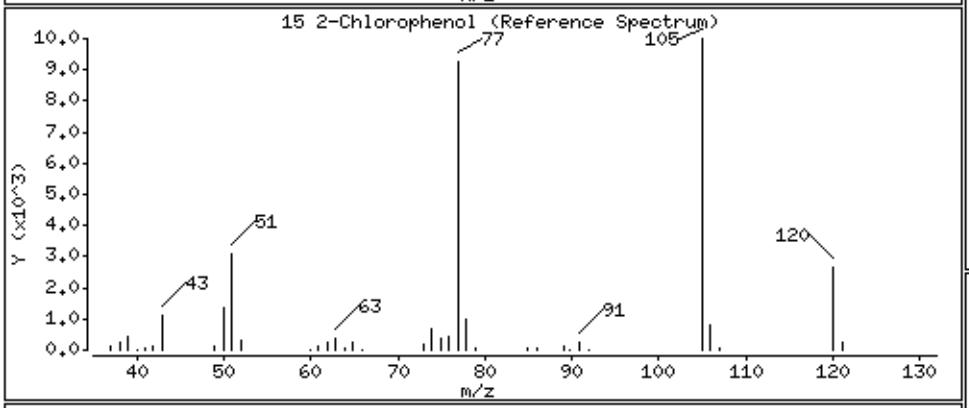
Concentration: 59.2 ug/kg

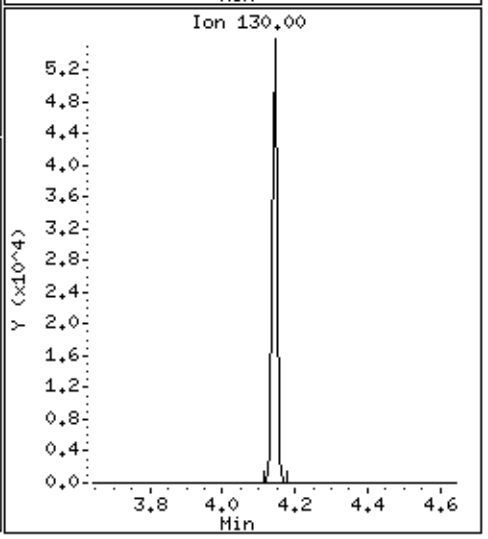


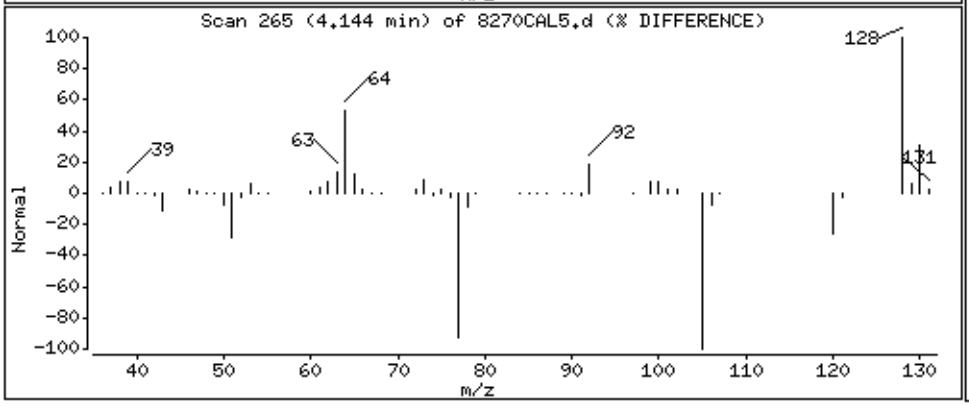












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

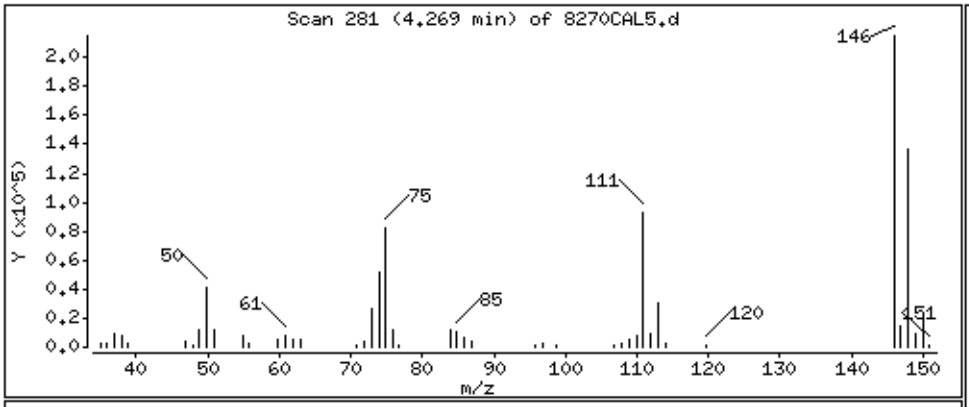
Operator: MJ

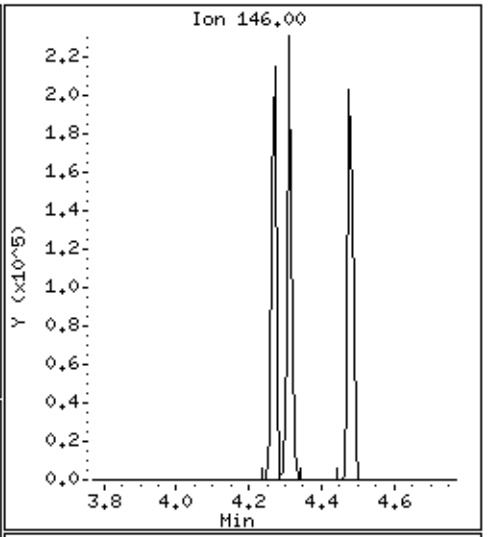
Column phase: HPMS-5

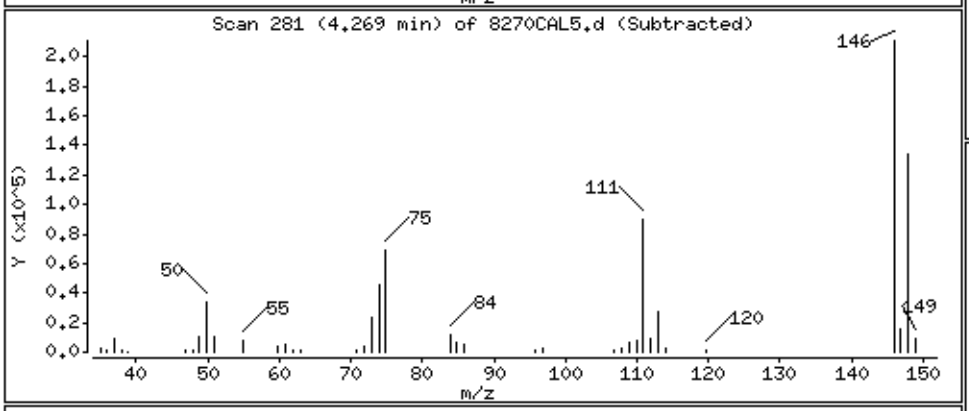
Column diameter: 0.25

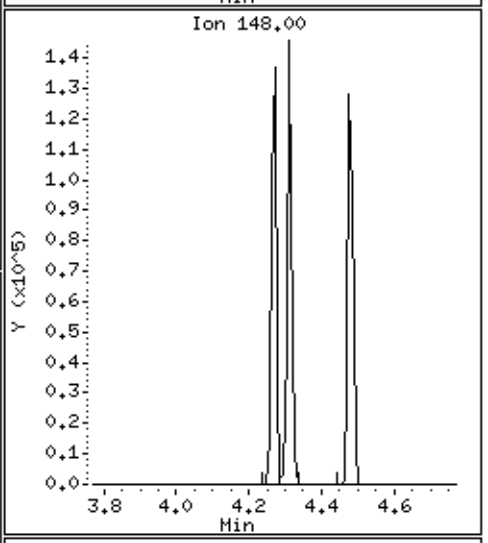
17 1,3-Dichlorobenzene

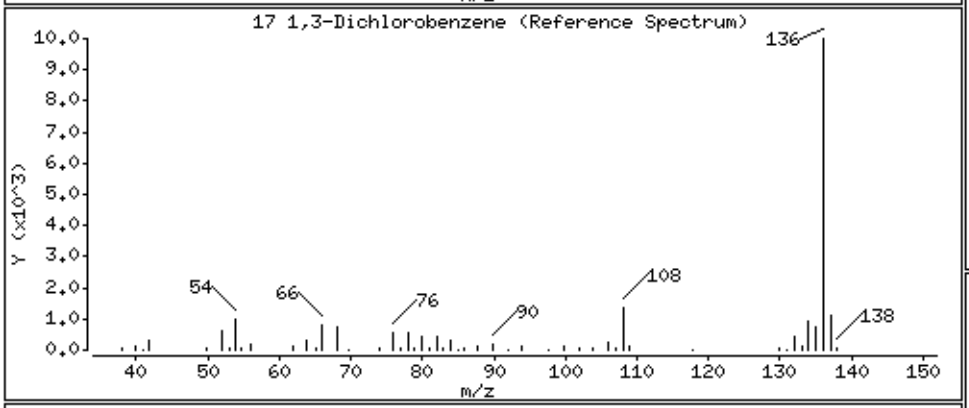
Concentration: 58.8 ug/kg

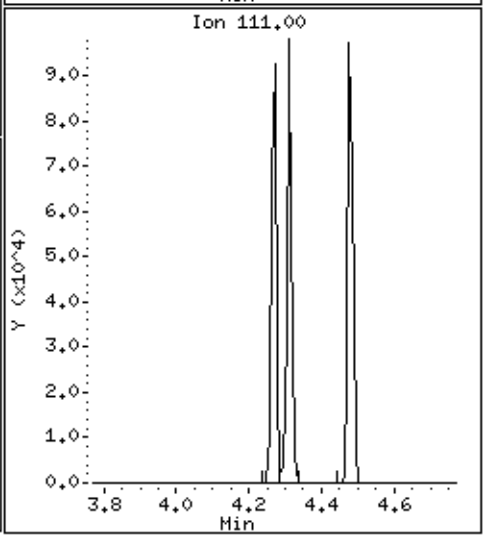


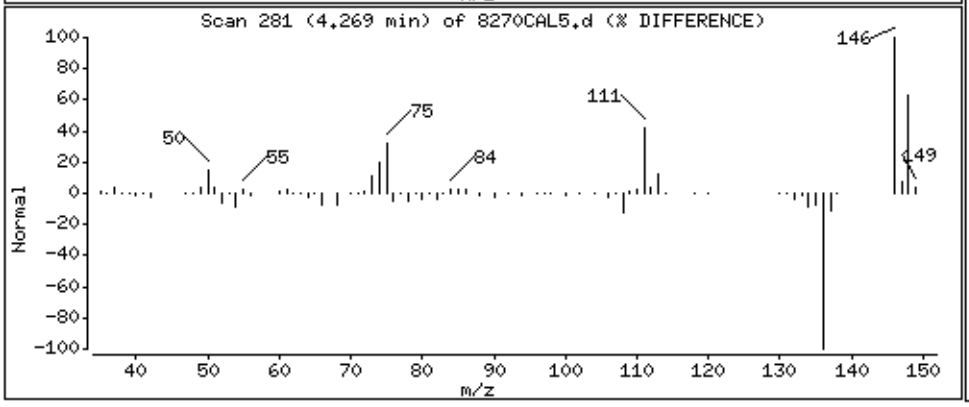












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

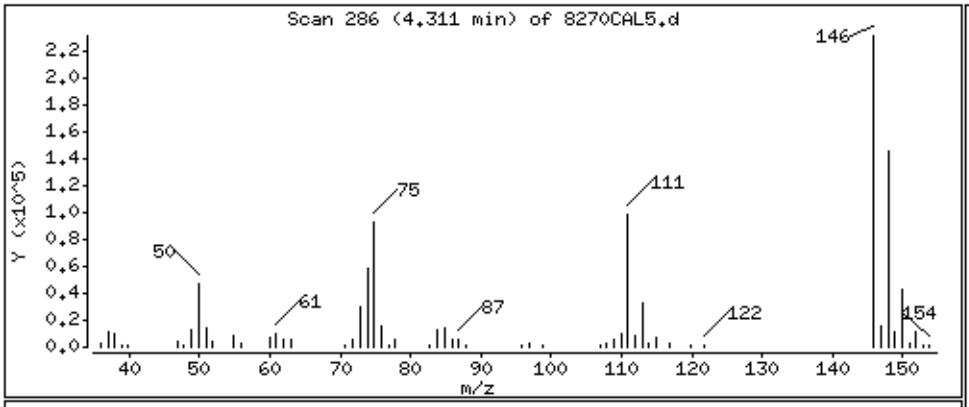
Operator: MJ

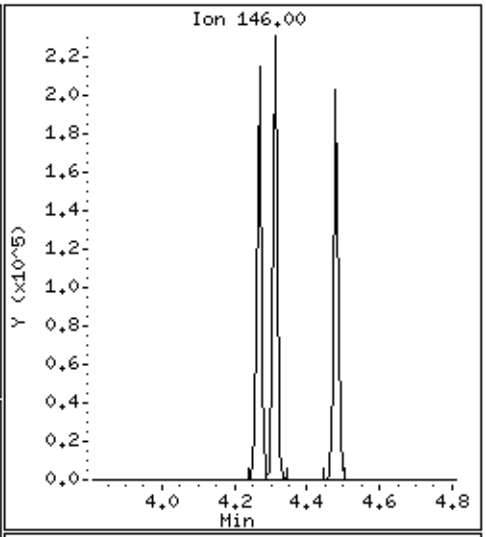
Column phase: HPMS-5

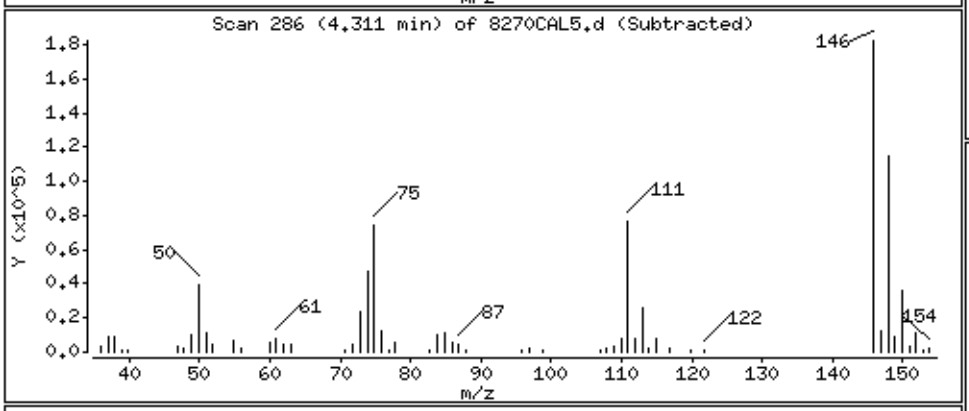
Column diameter: 0.25

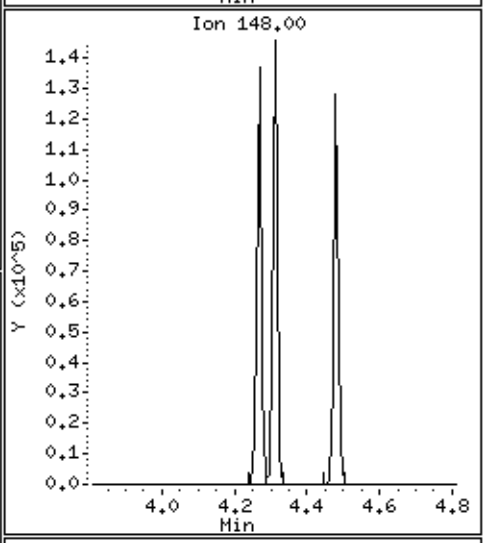
19 1,4-Dichlorobenzene

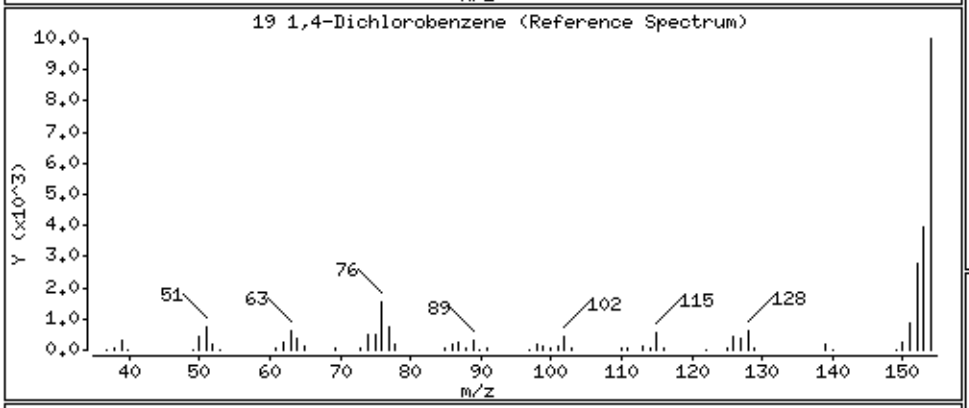
Concentration: 58.6 ug/kg

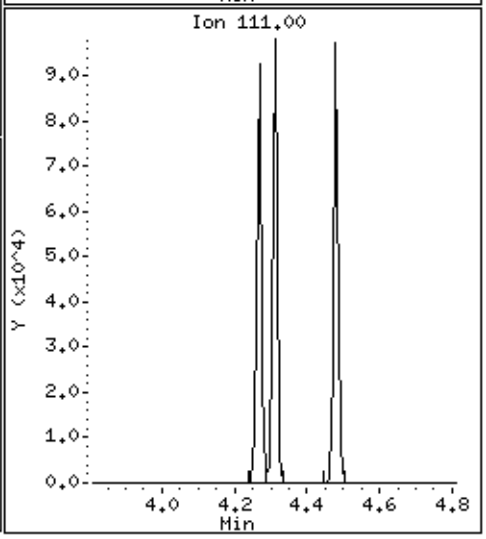


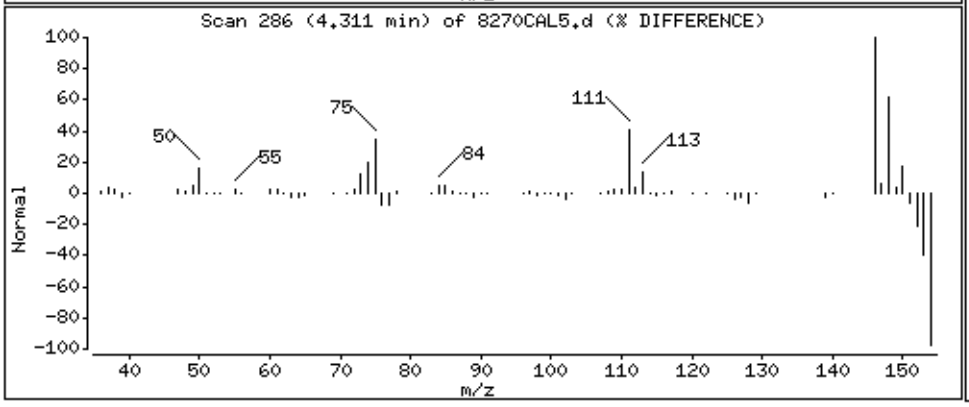












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

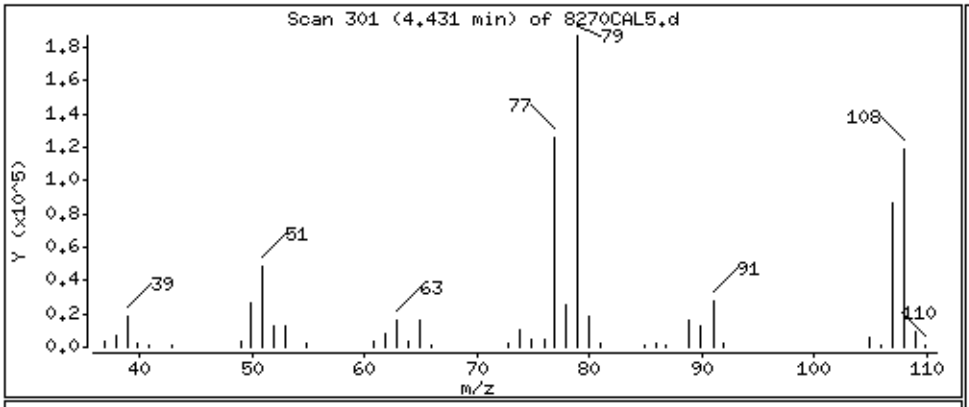
Operator: MJ

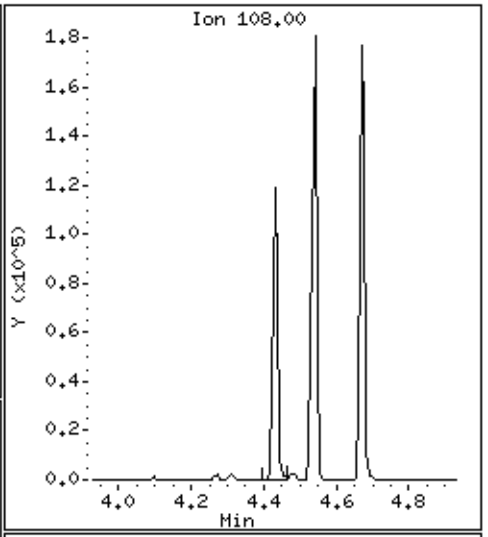
Column phase: HPMS-5

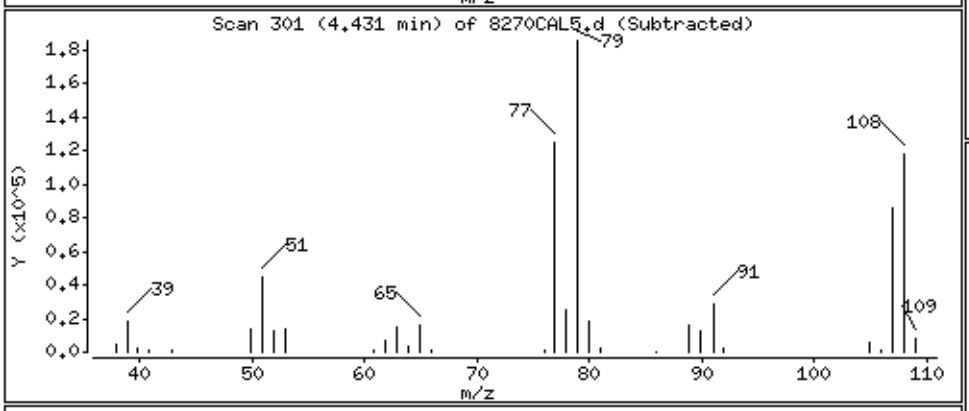
Column diameter: 0.25

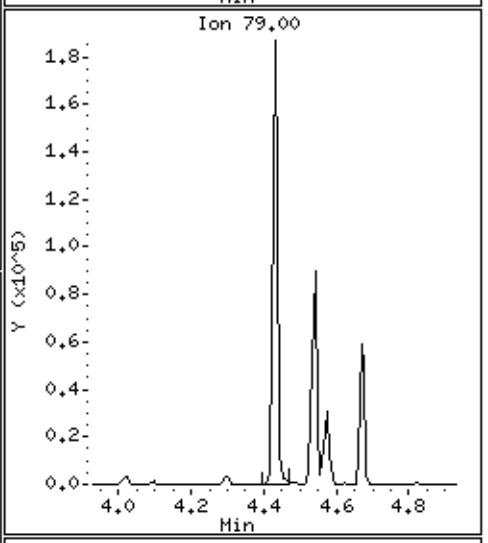
21 Benzyl alcohol

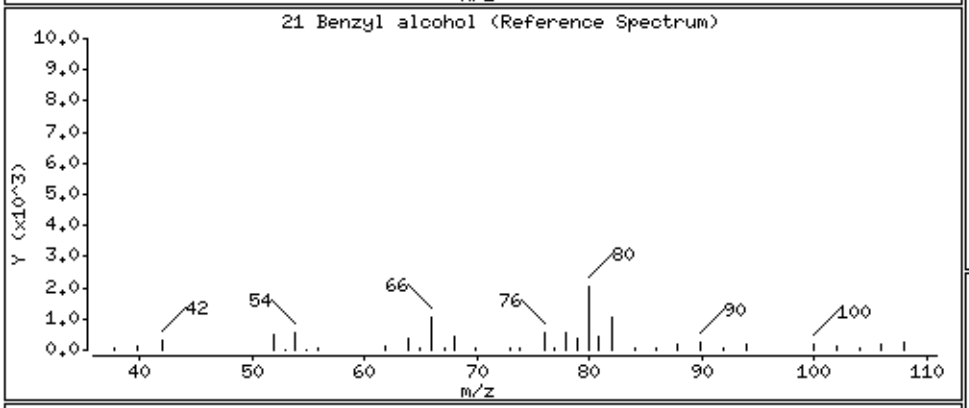
Concentration: 58.9 ug/kg

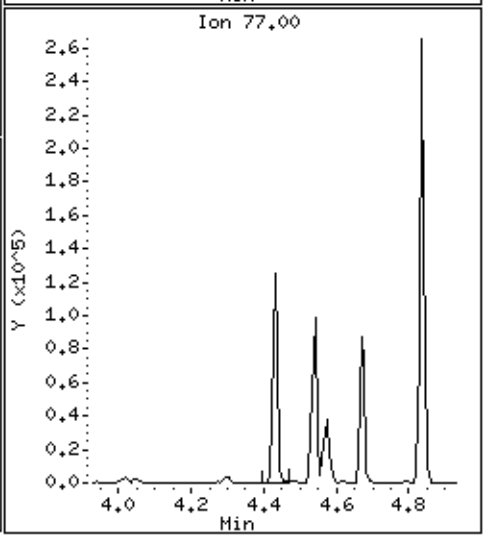


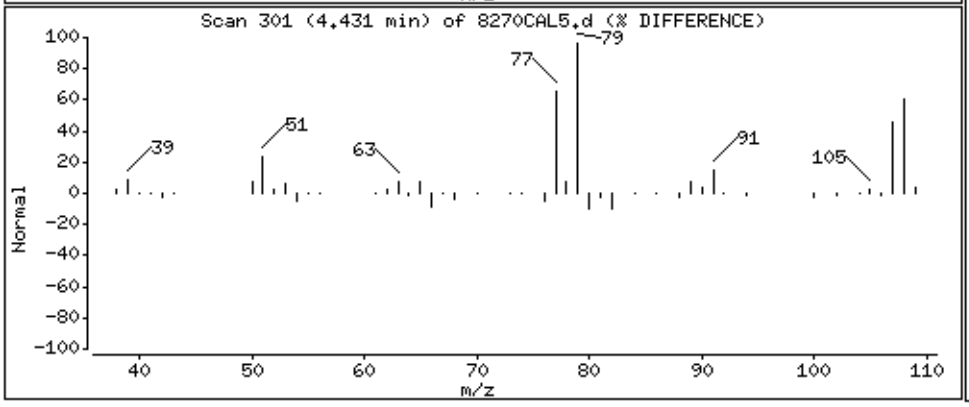












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

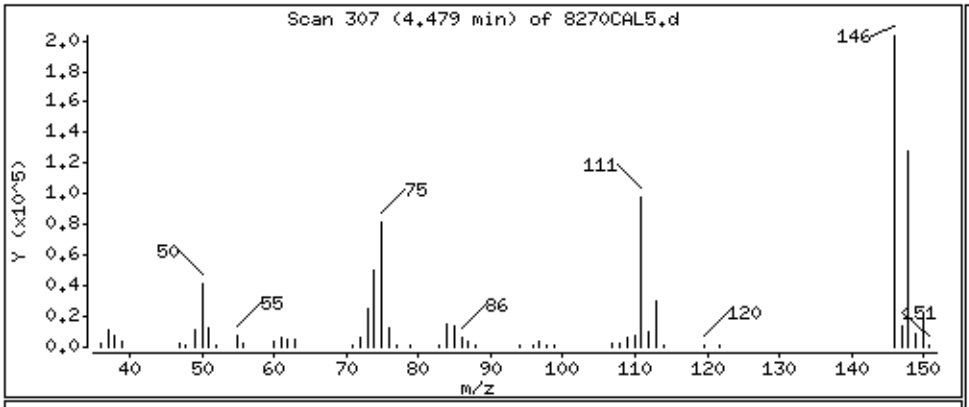
Operator: MJ

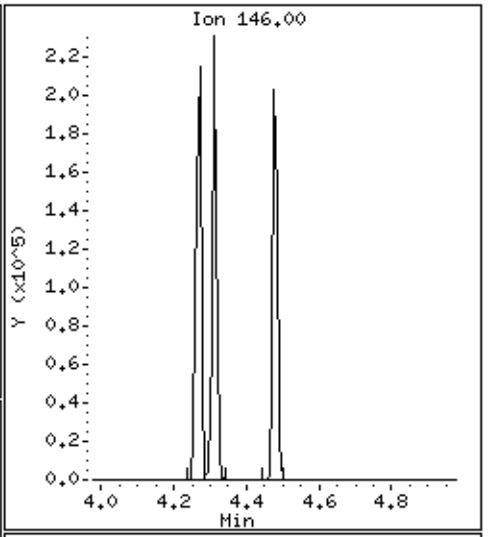
Column phase: HPMS-5

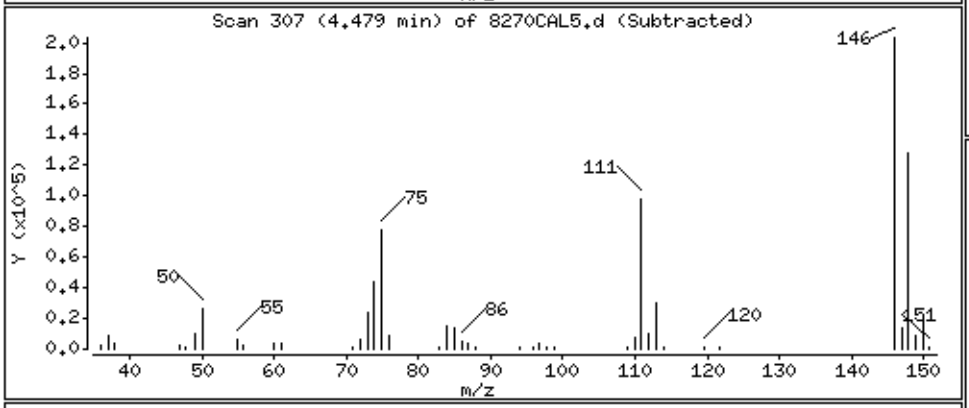
Column diameter: 0.25

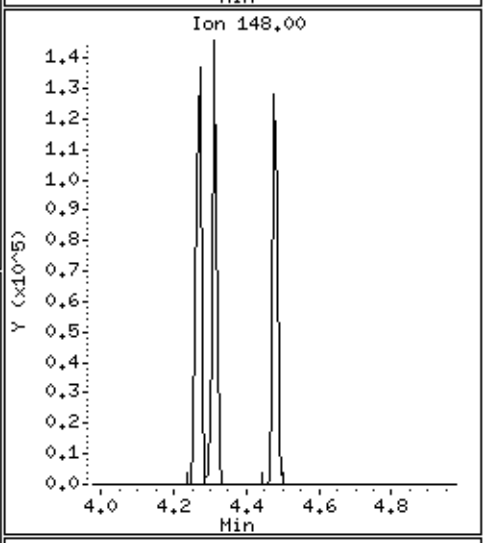
20 1,2-Dichlorobenzene

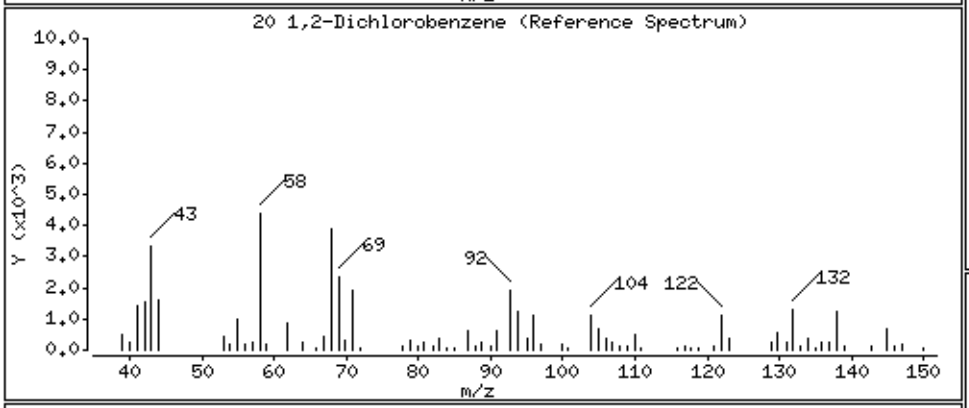
Concentration: 58.7 ug/kg

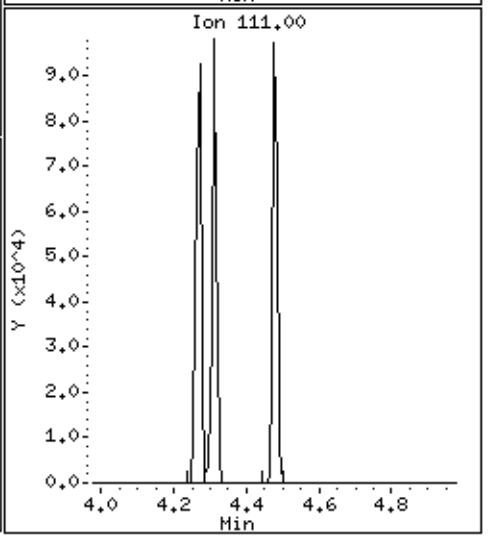


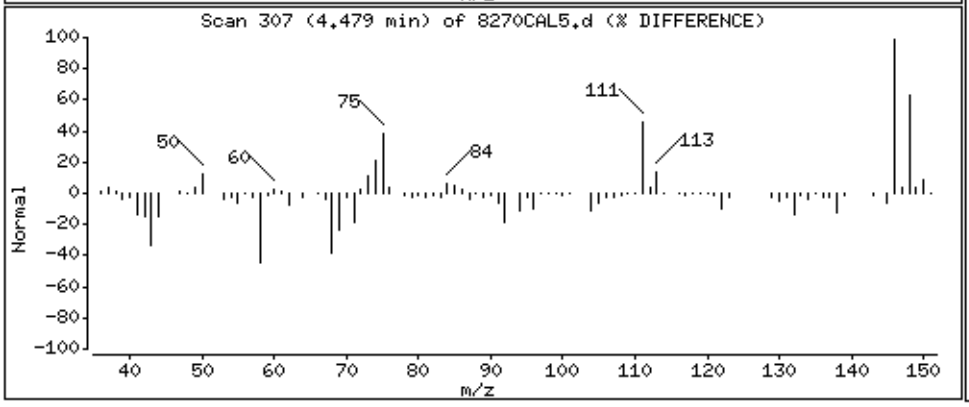












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

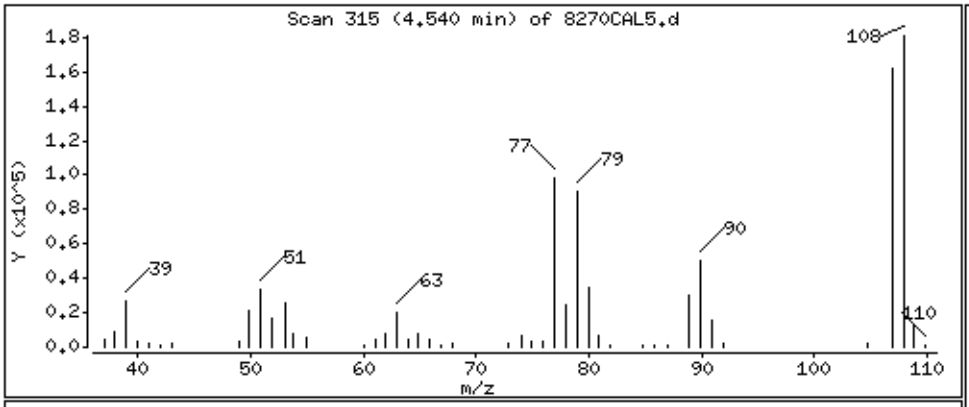
Client ID: 8270CAL5 Instrument: smsd04.i

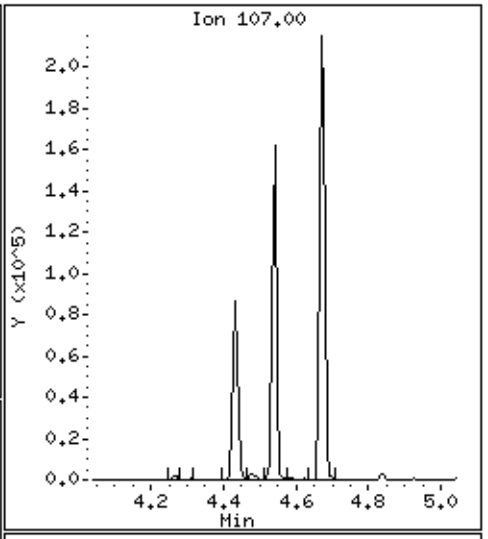
Sample Info: 47765

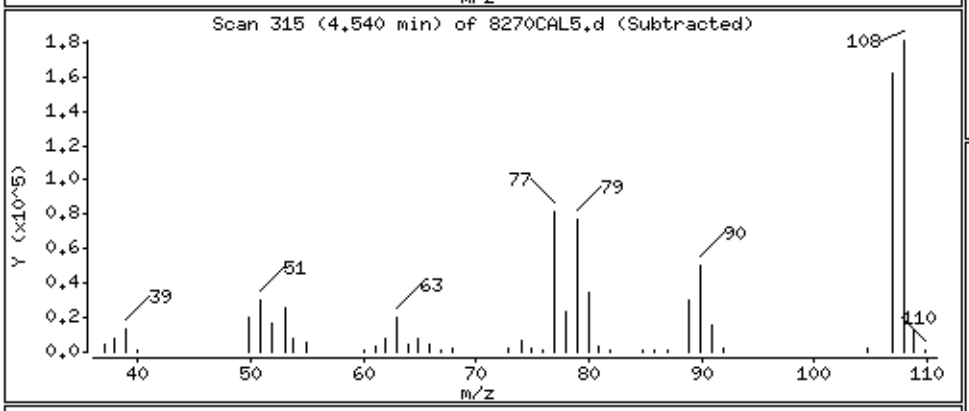
Operator: MJ

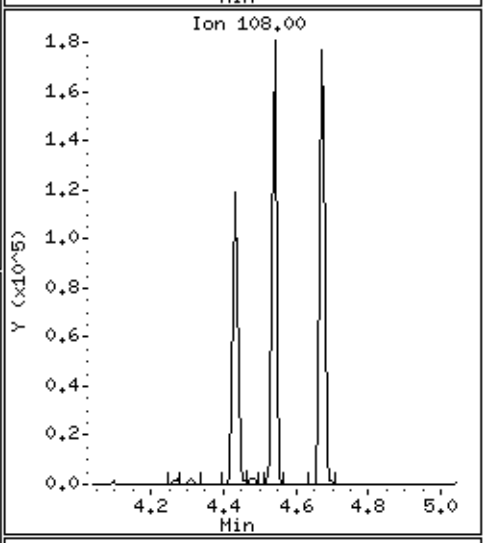
Column phase: HPMS-5 Column diameter: 0.25

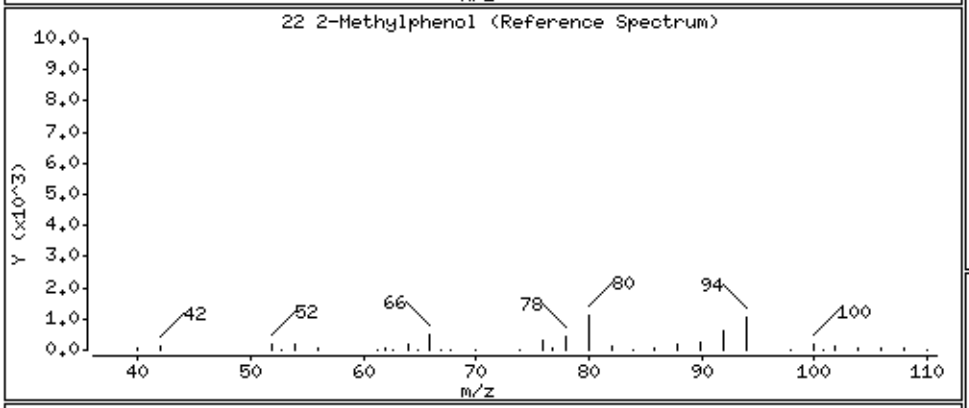
22 2-Methylphenol Concentration: 58.9 ug/kg

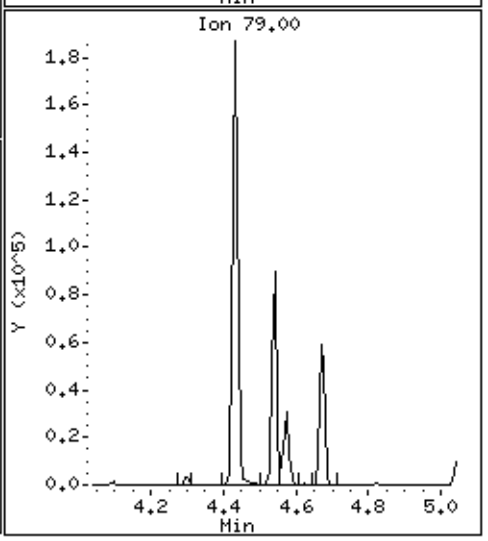


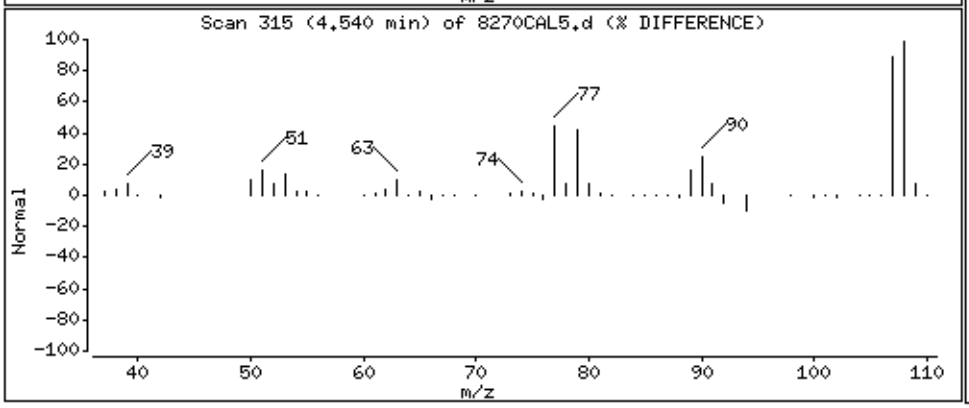












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

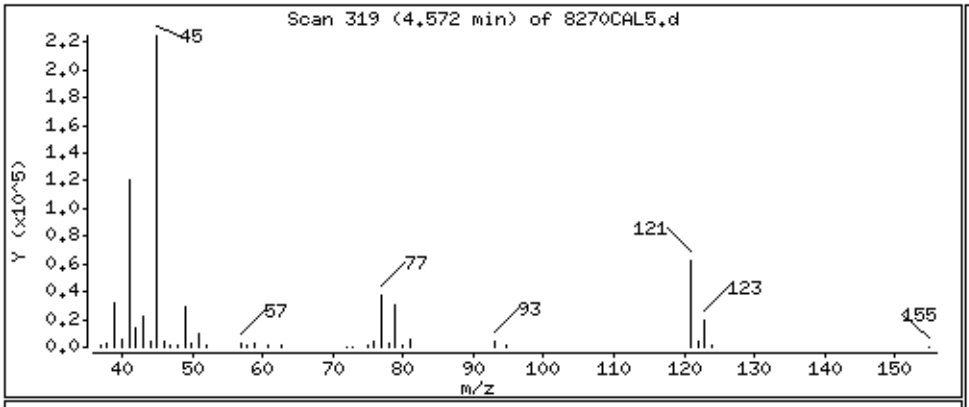
Operator: MJ

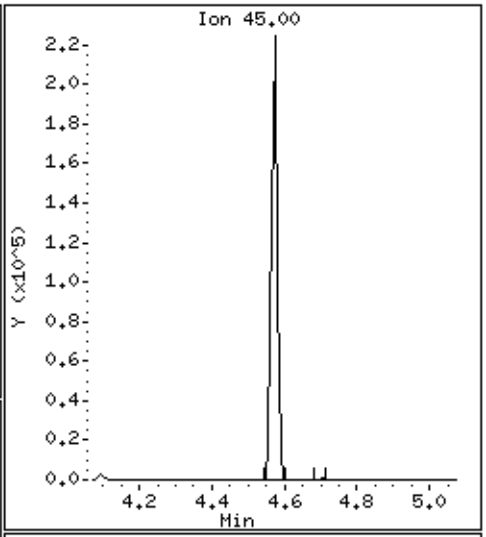
Column phase: HPMS-5

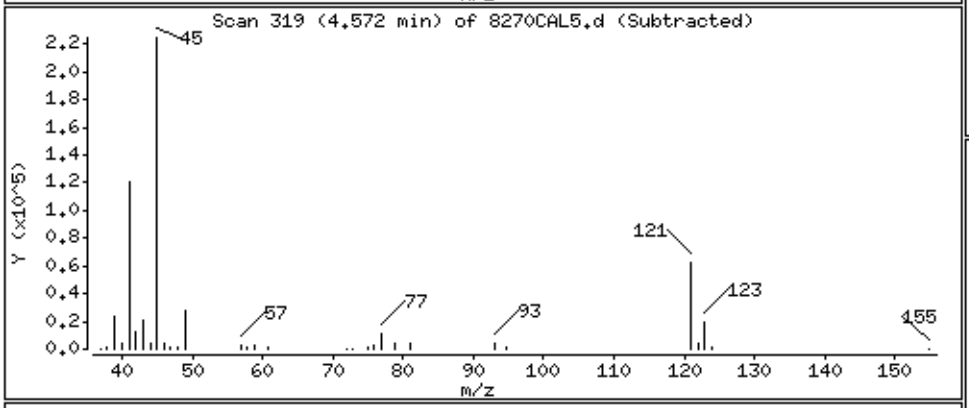
Column diameter: 0.25

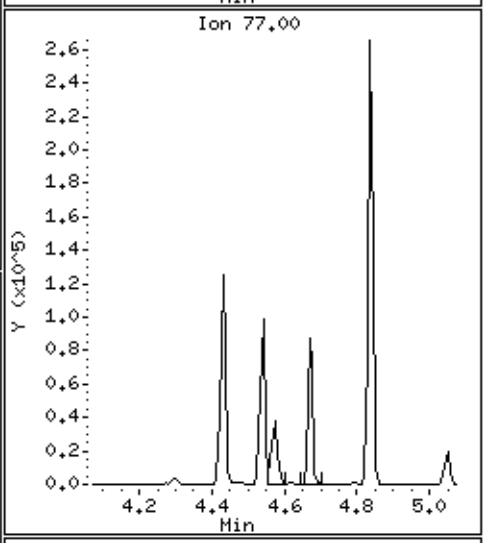
23 2,2'-oxybis(1-chloropropane)

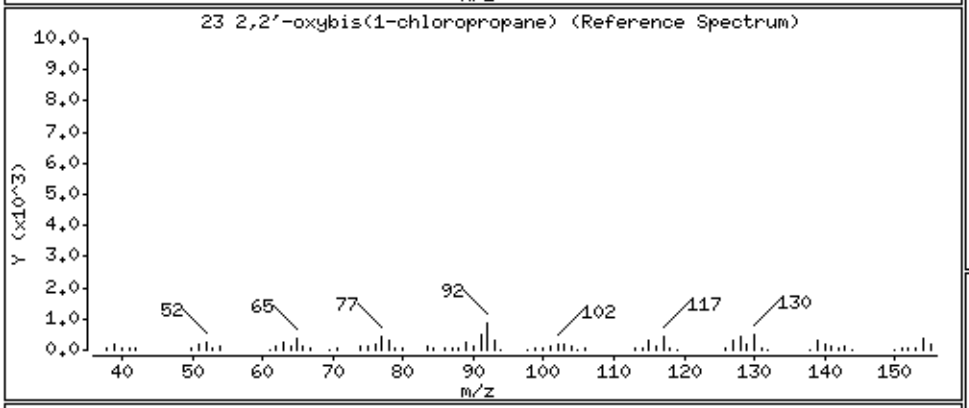
Concentration: 60.6 ug/kg

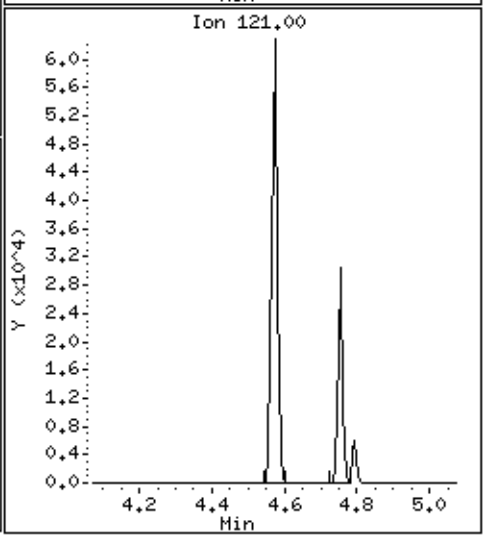


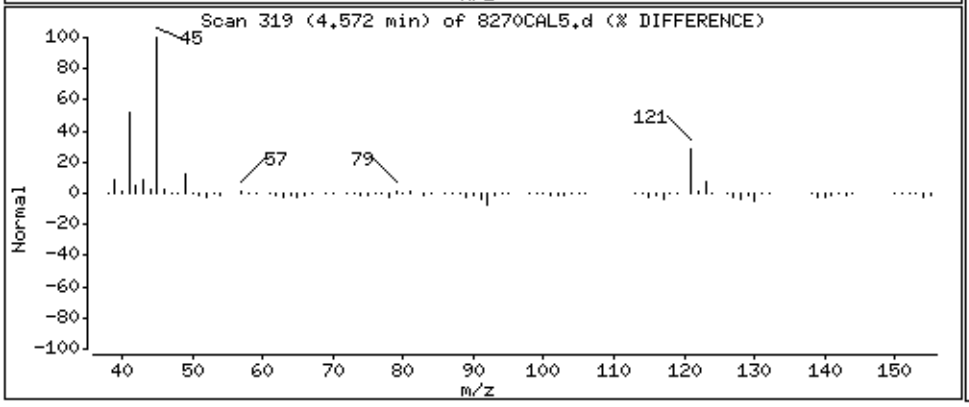












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

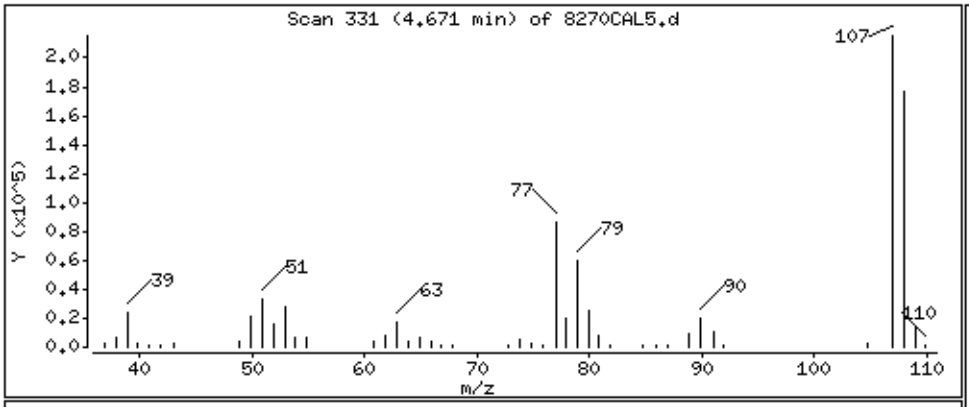
Operator: MJ

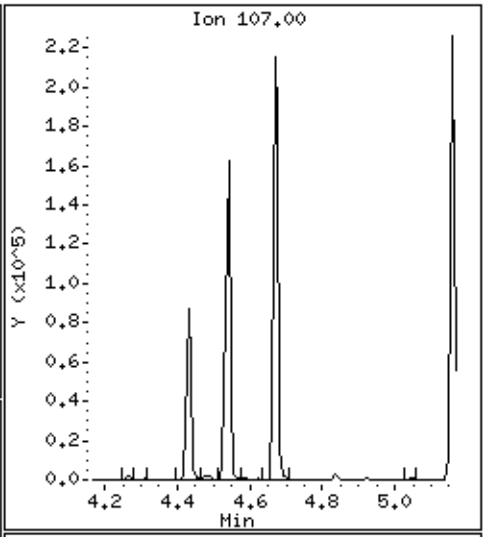
Column phase: HPMS-5

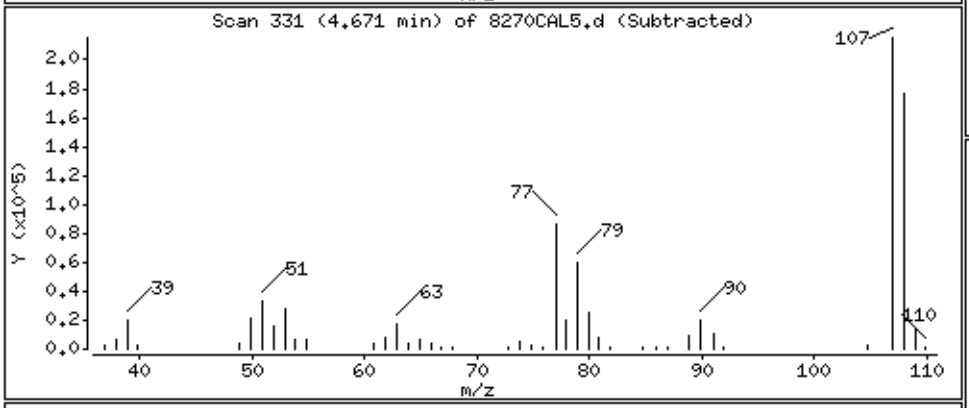
Column diameter: 0.25

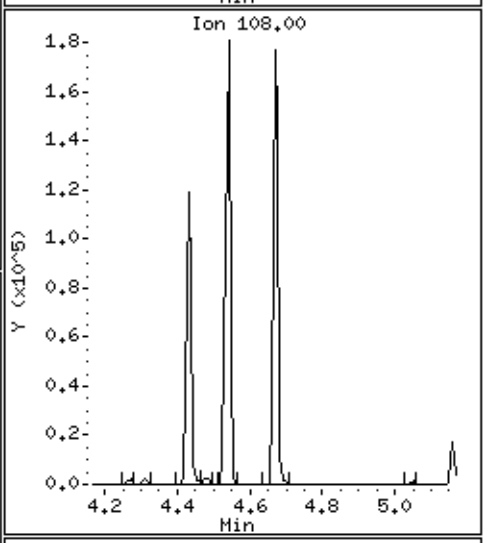
28 4-Methylphenol

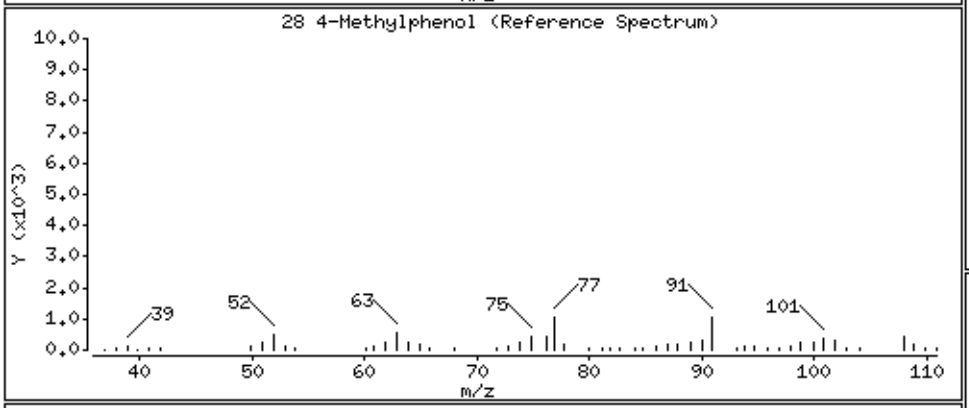
Concentration: 58.6 ug/kg

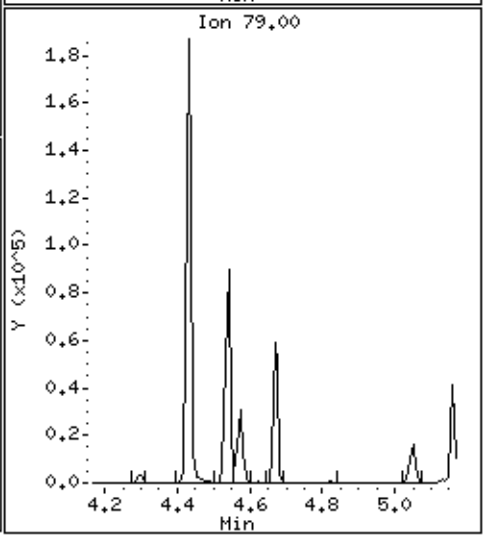


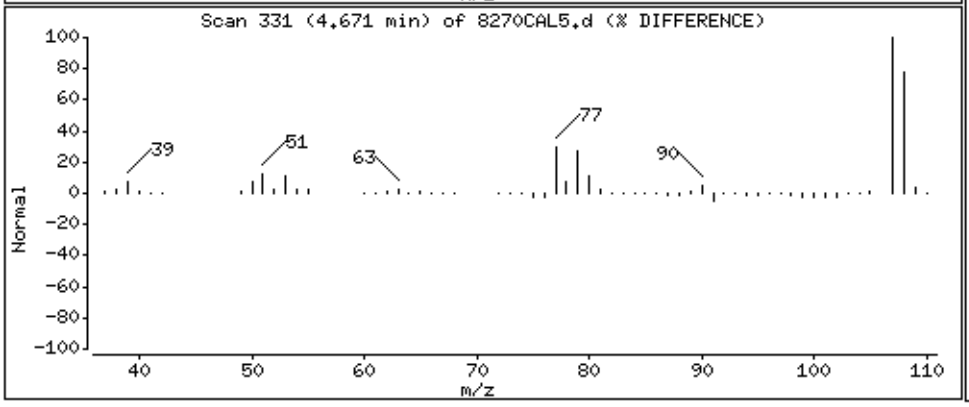












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

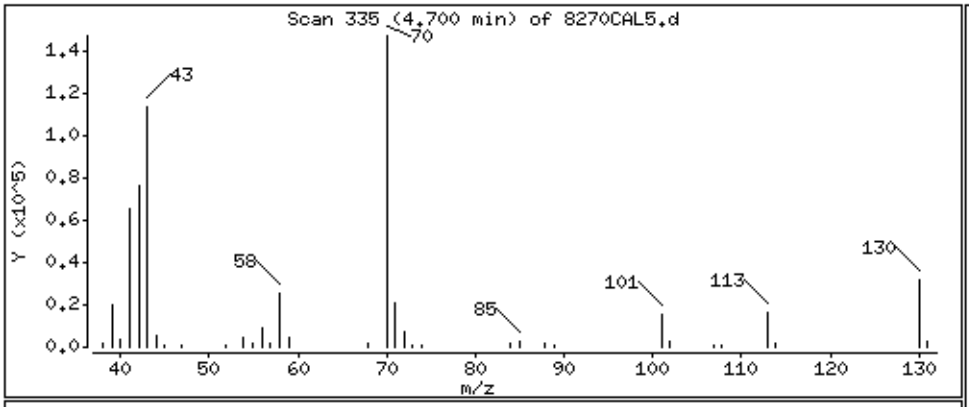
Operator: MJ

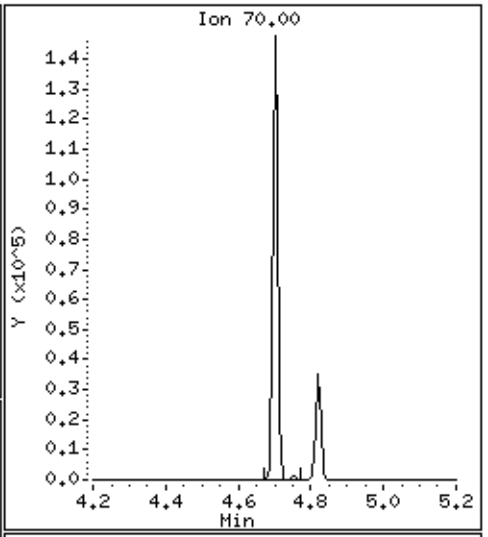
Column phase: HPMS-5

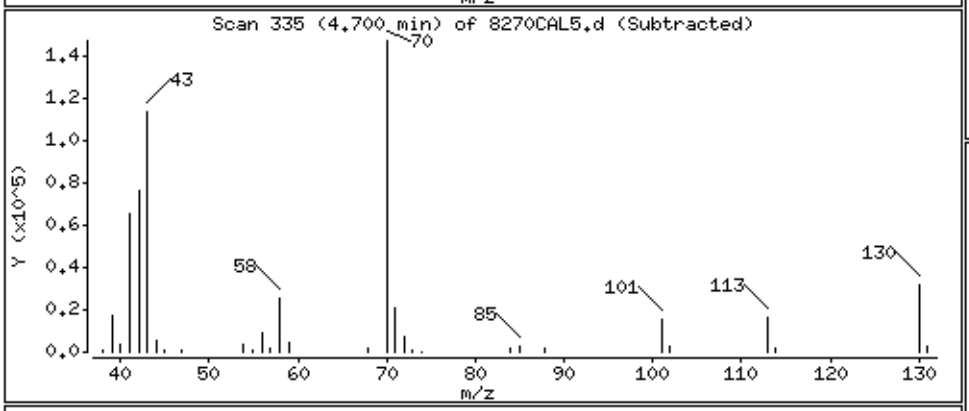
Column diameter: 0.25

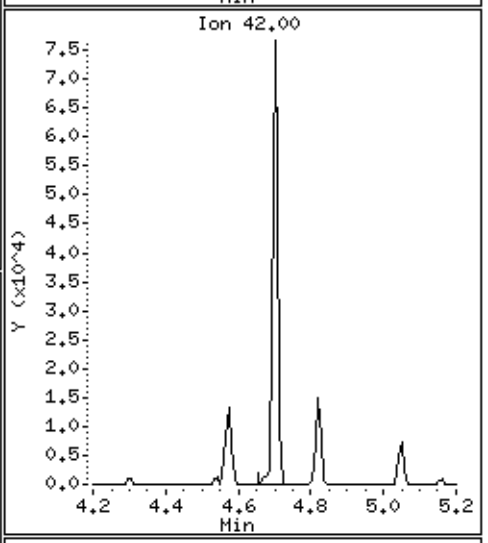
26 N-Nitrosodinpropylamine

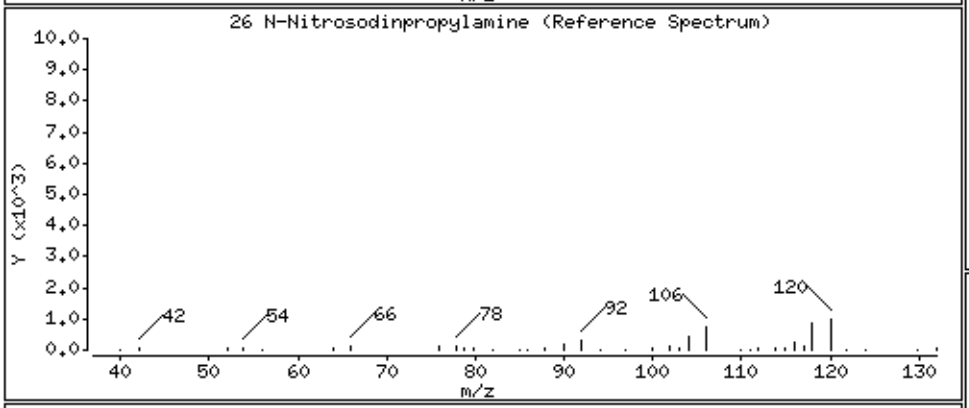
Concentration: 61.0 ug/kg

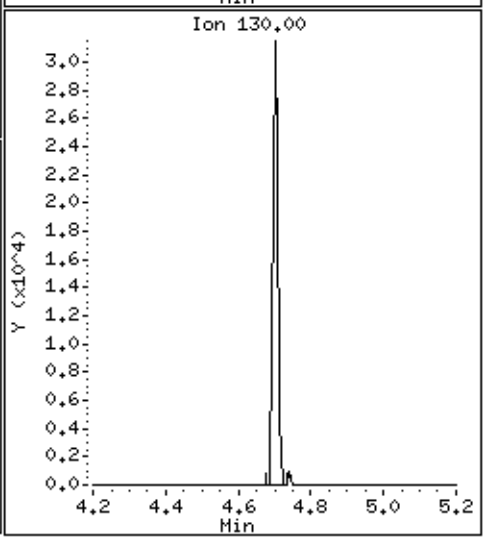


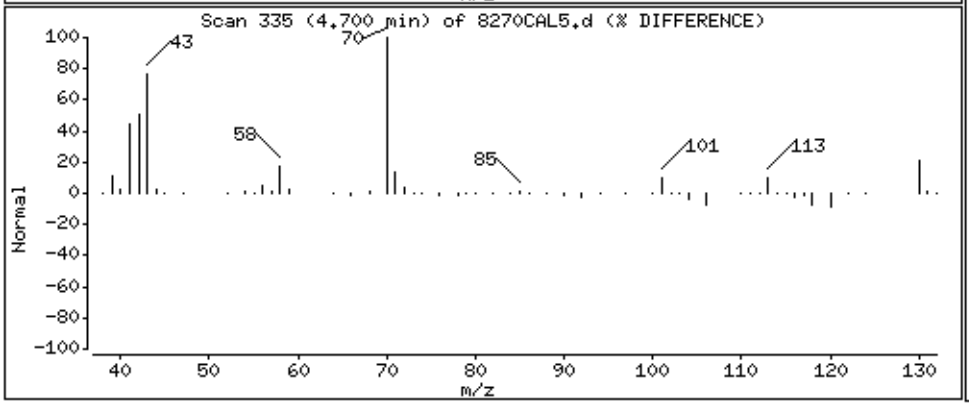












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

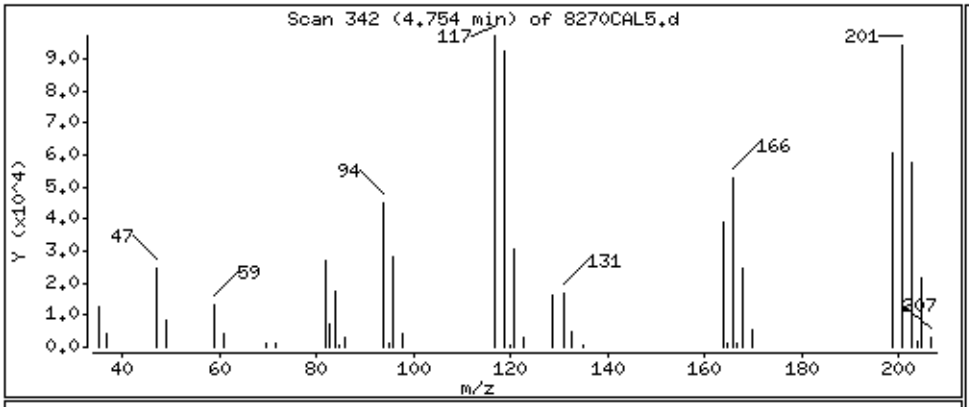
Operator: MJ

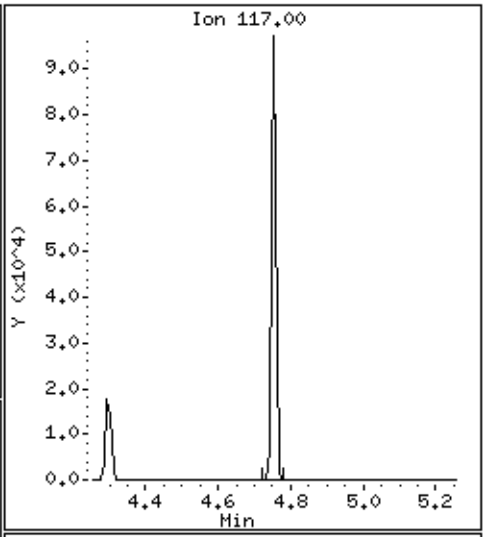
Column phase: HPMS-5

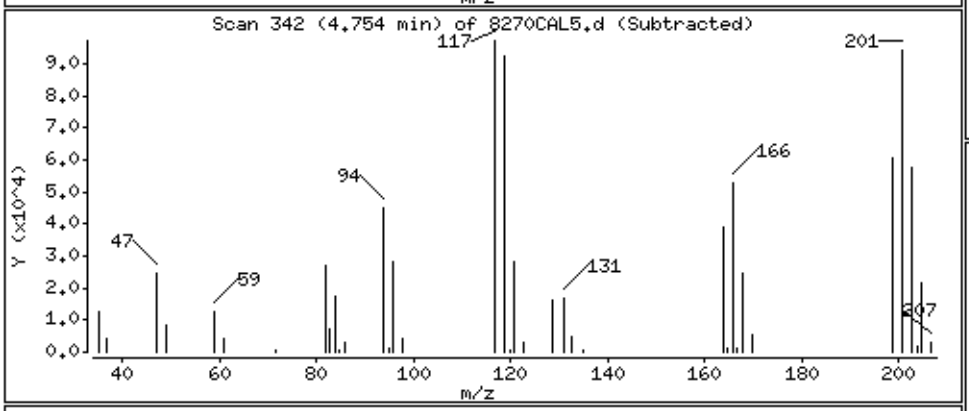
Column diameter: 0.25

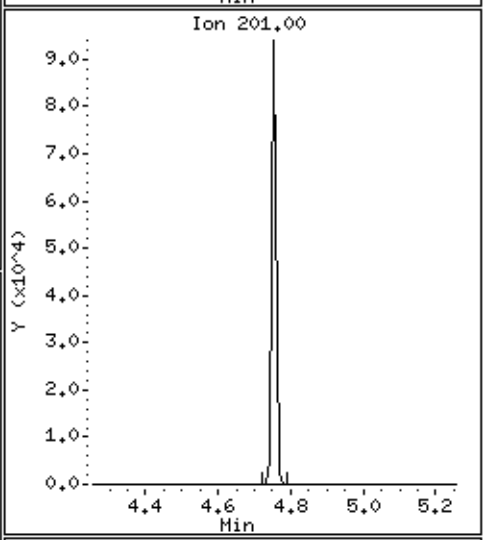
30 Hexachloroethane

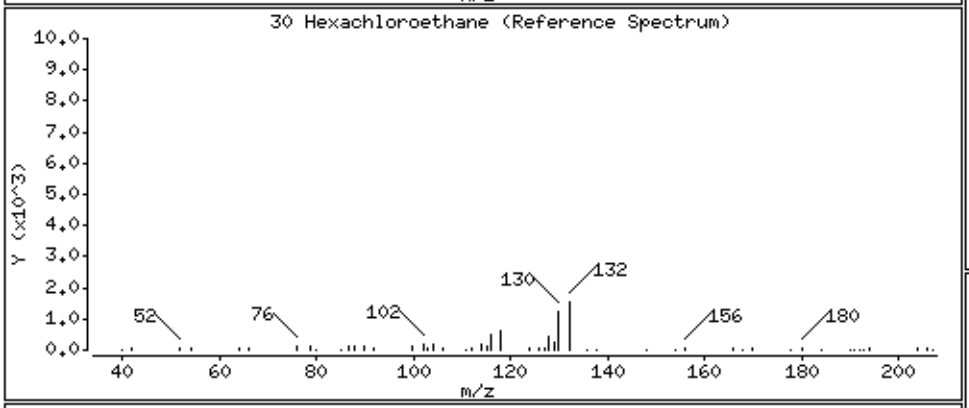
Concentration: 59.8 ug/kg

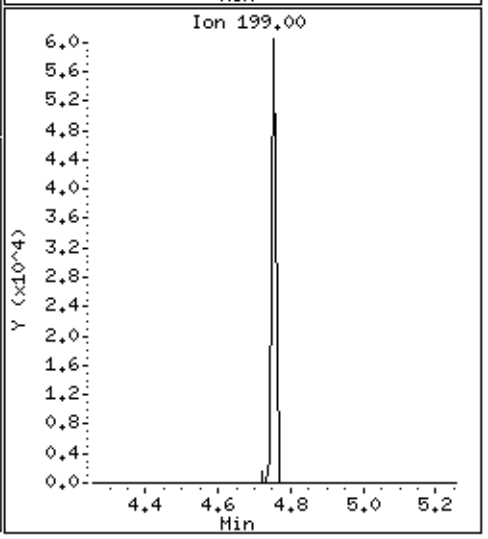


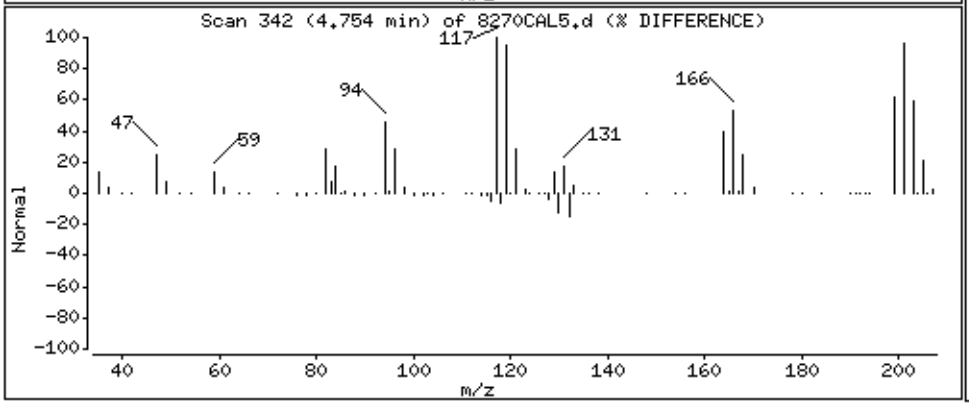












Date : 14-NOV-2012 23:22

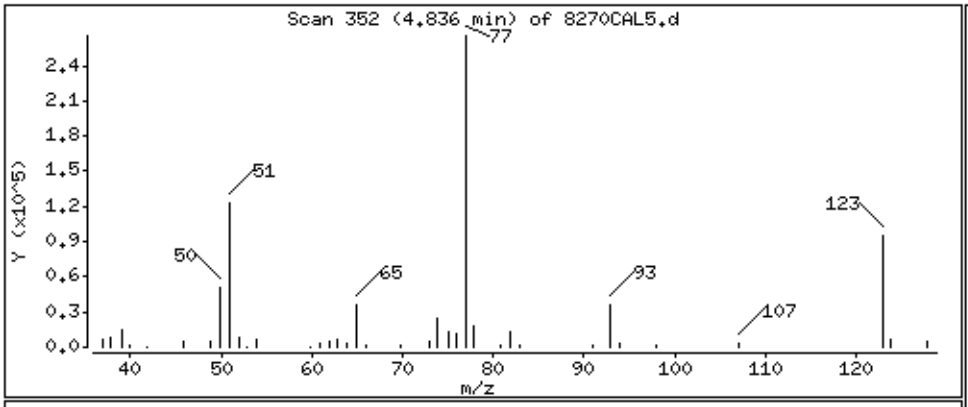
Client ID: 8270CAL5 Instrument: smsd04.i

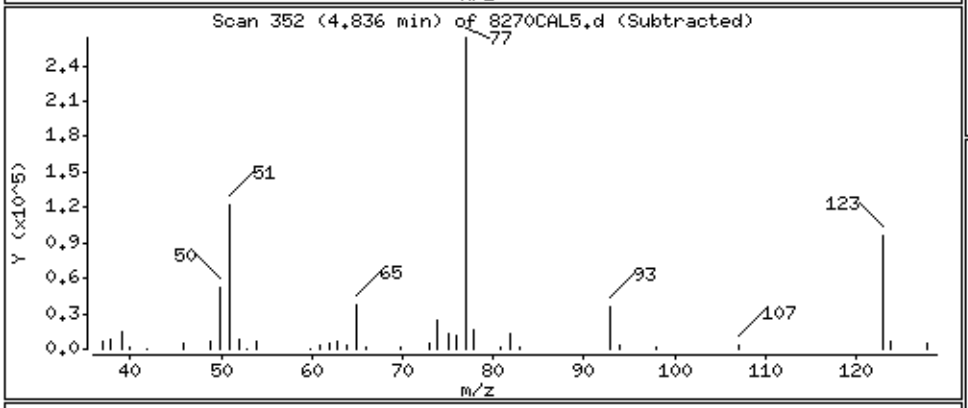
Sample Info: 47765

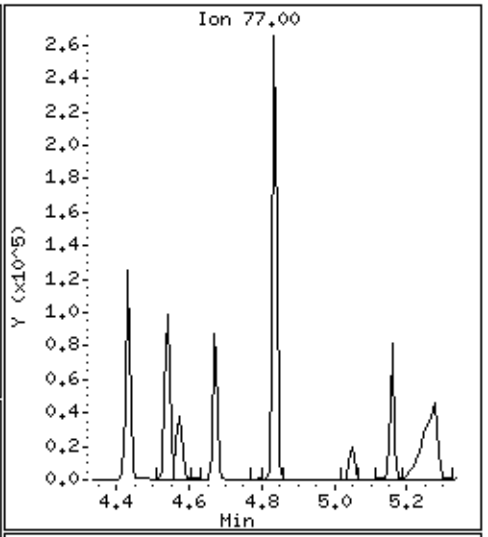
Operator: MJ

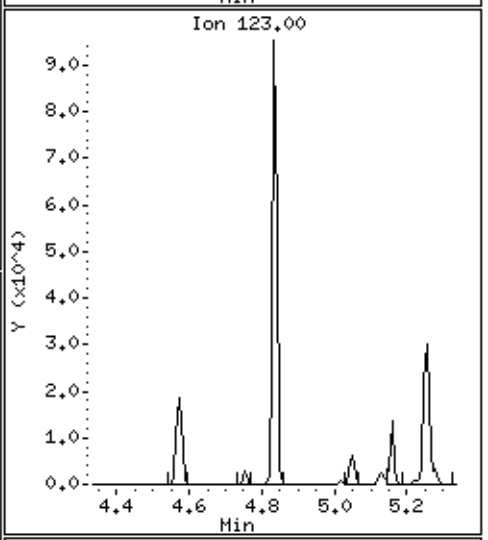
Column phase: HPMS-5 Column diameter: 0.25

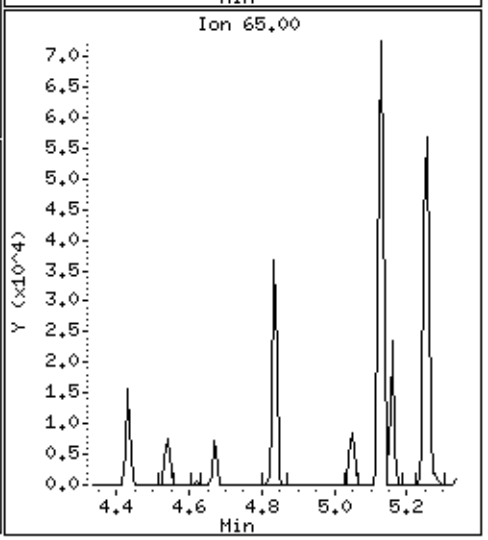
32 Nitrobenzene Concentration: 60.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

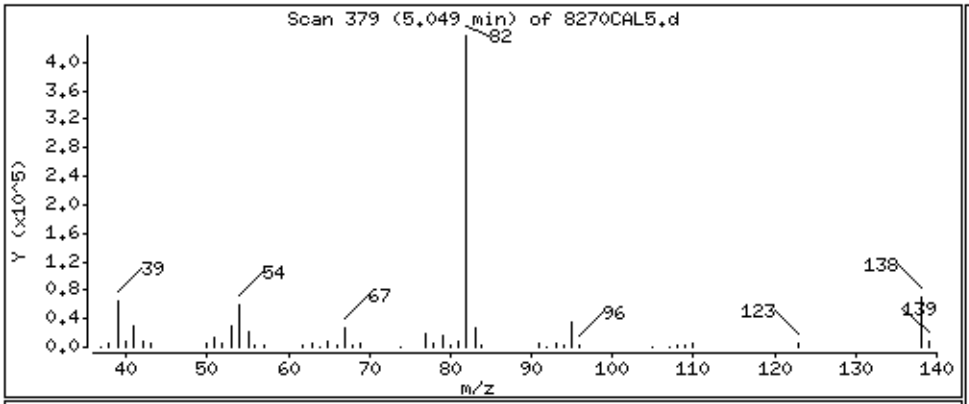
Operator: MJ

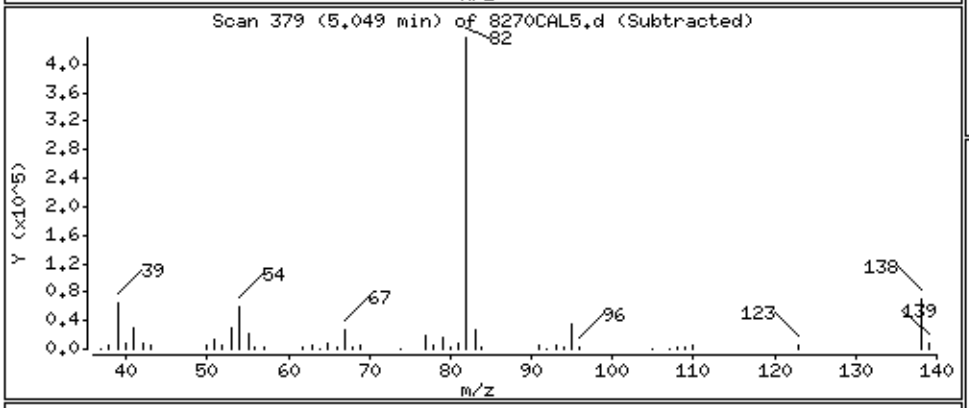
Column phase: HPMS-5

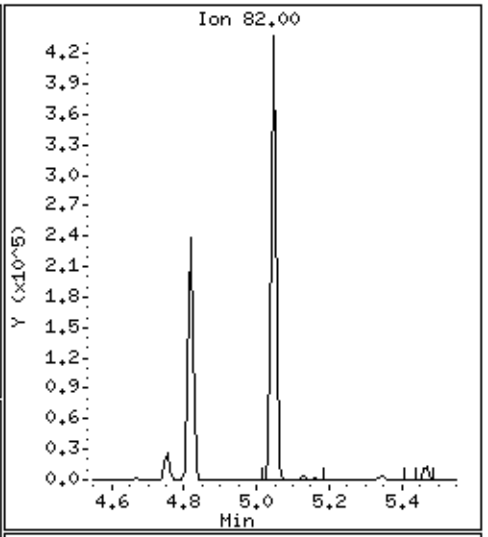
Column diameter: 0.25

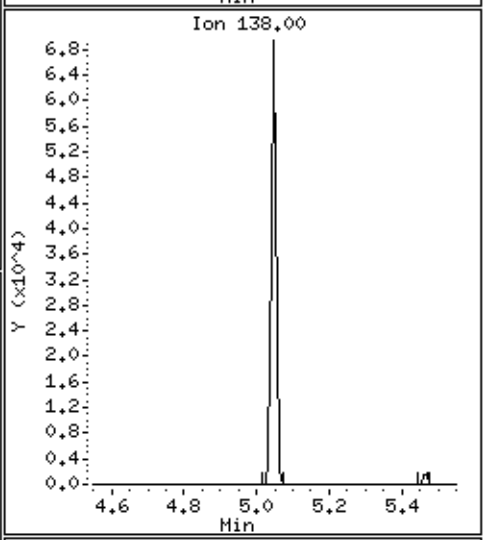
34 Isophorone

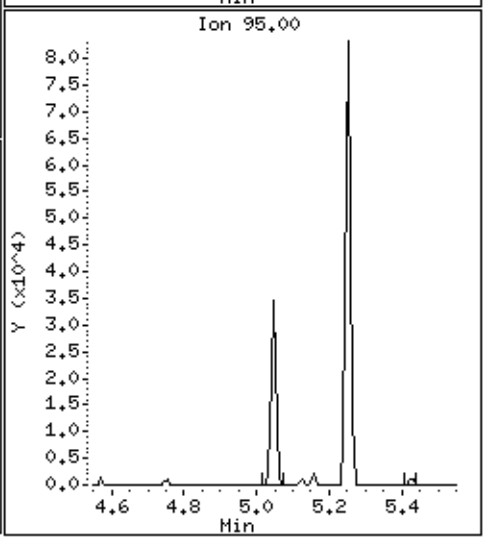
Concentration: 60.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

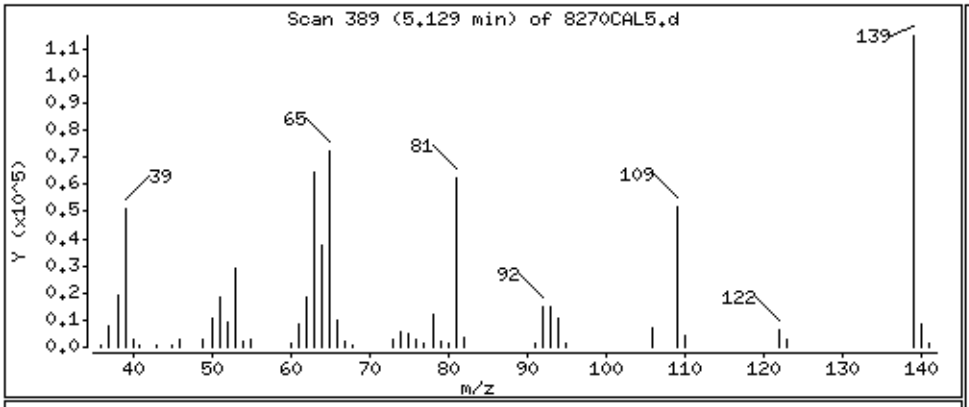
Operator: MJ

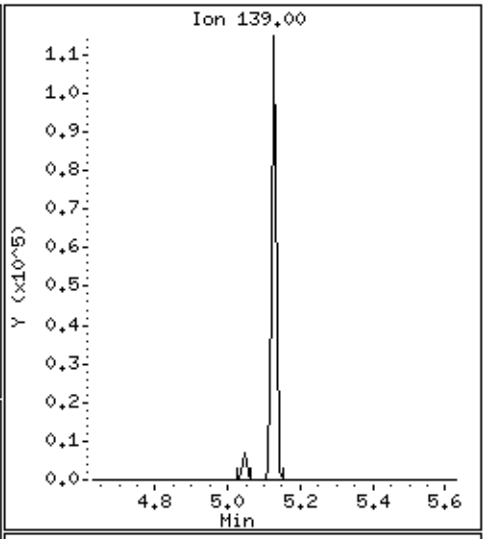
Column phase: HPMS-5

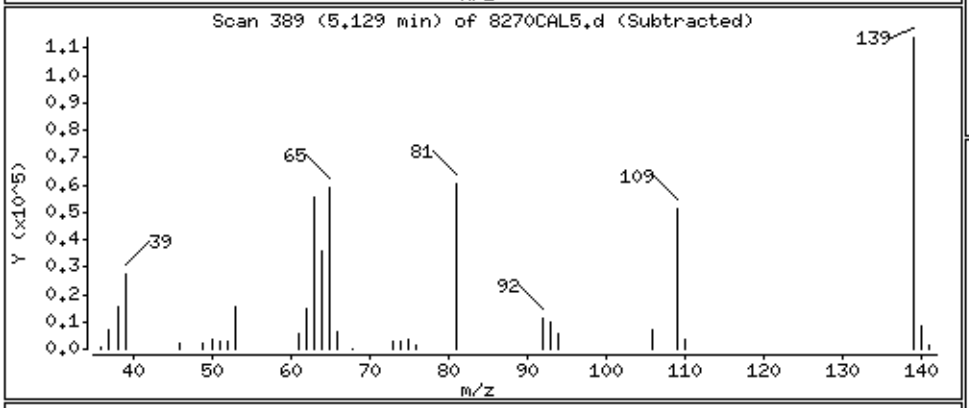
Column diameter: 0.25

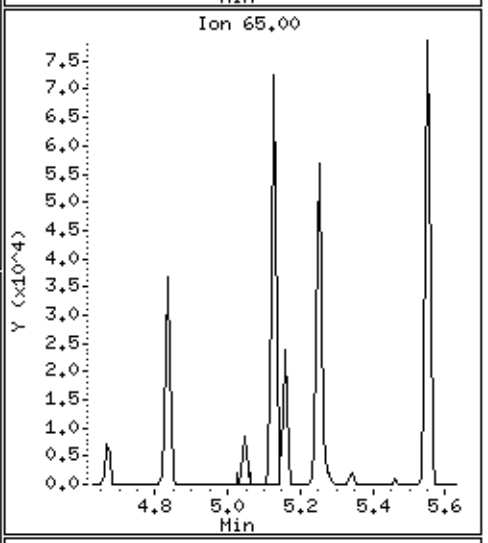
35 2-Nitrophenol

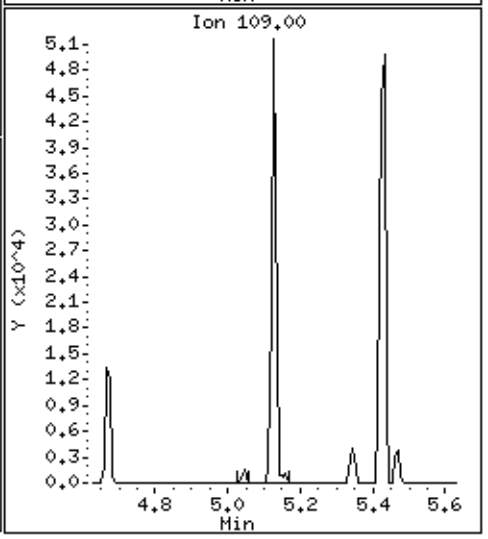
Concentration: 59.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

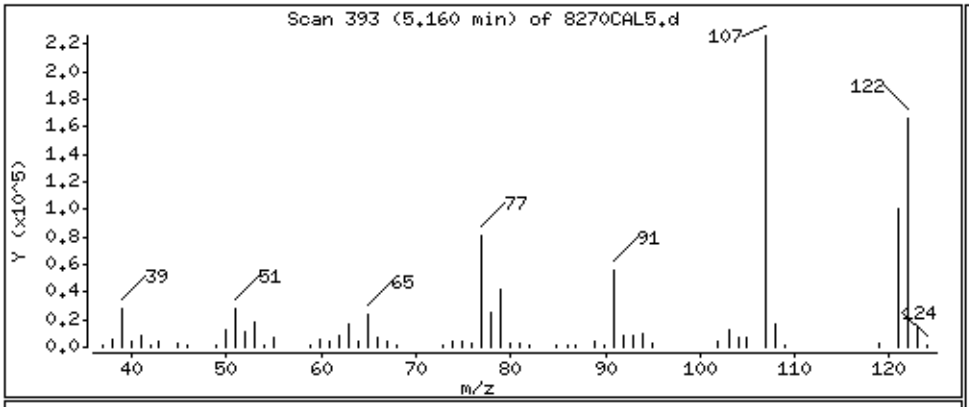
Client ID: 8270CAL5 Instrument: smsd04.i

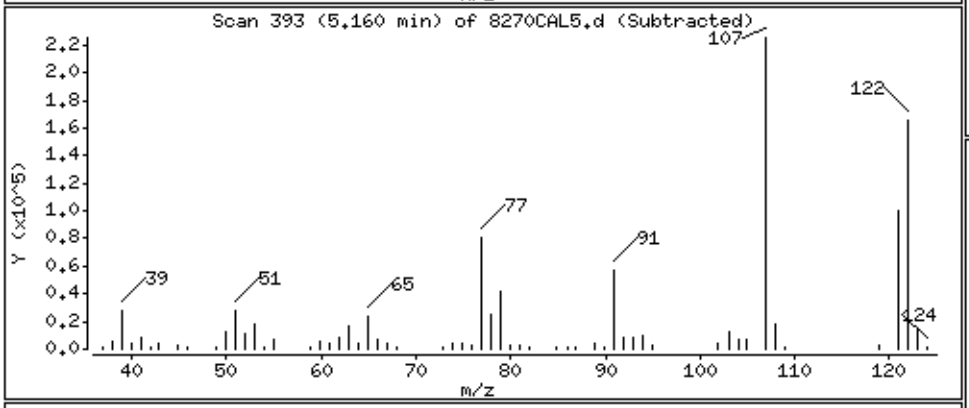
Sample Info: 47765

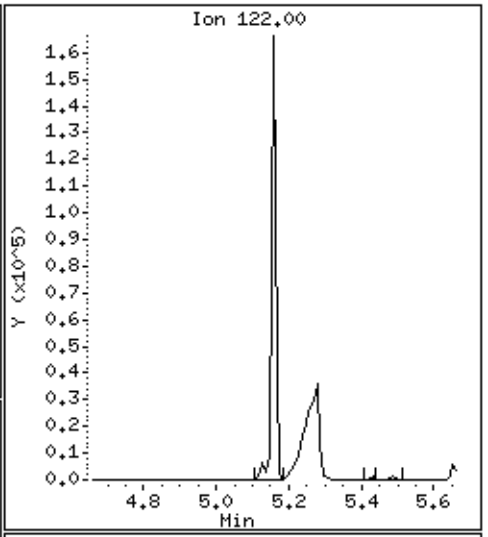
Operator: MJ

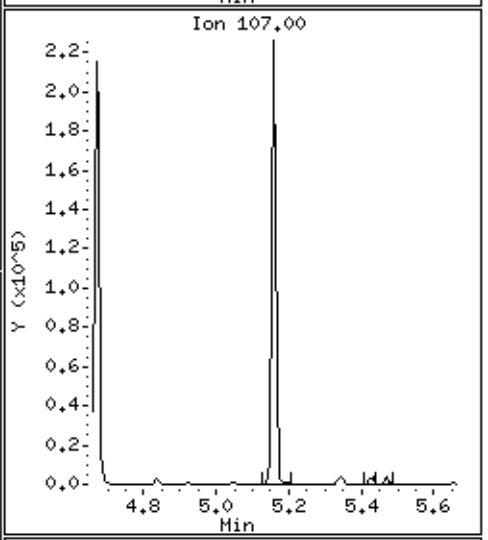
Column phase: HPMS-5 Column diameter: 0.25

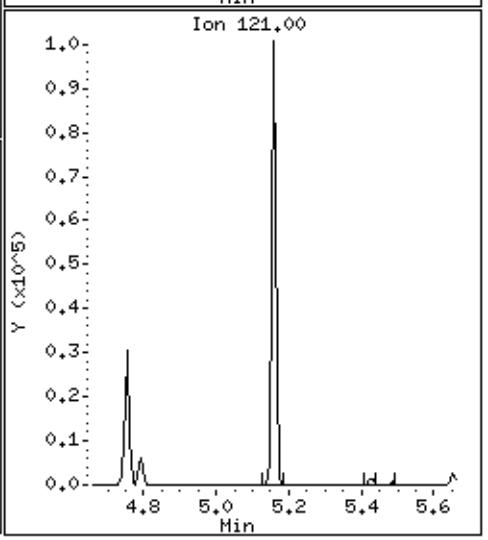
36 2,4-Dimethylphenol Concentration: 59.6 ug/kg











Date : 14-NOV-2012 23:22

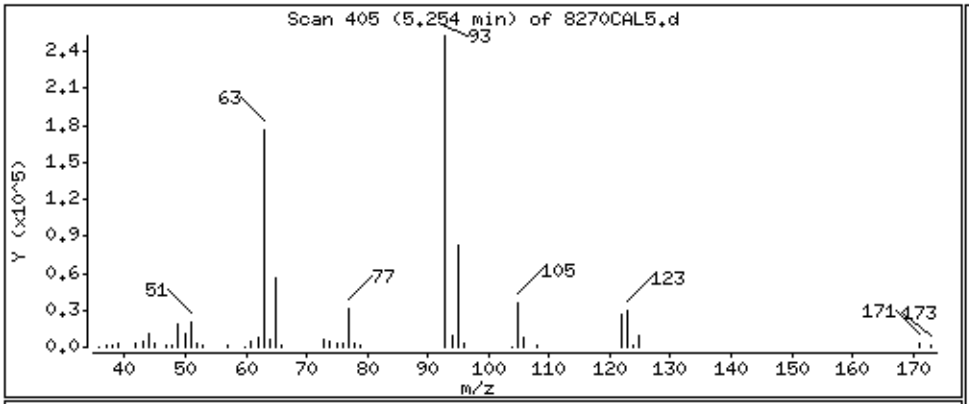
Client ID: 8270CAL5 Instrument: smsd04.i

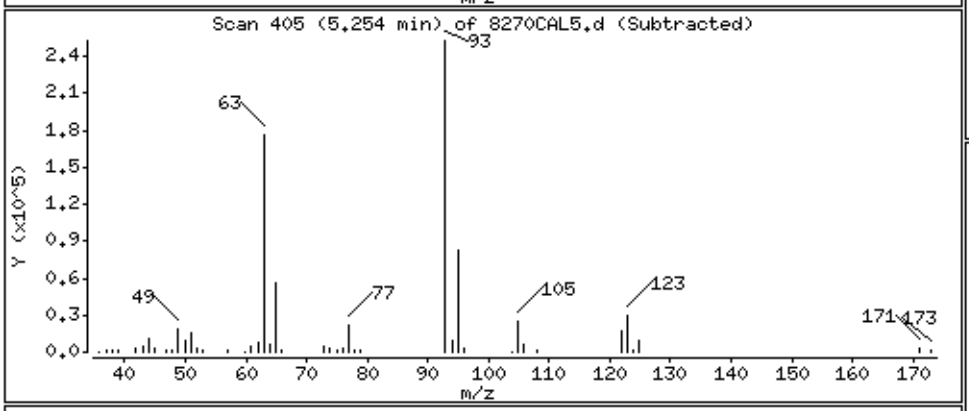
Sample Info: 47765

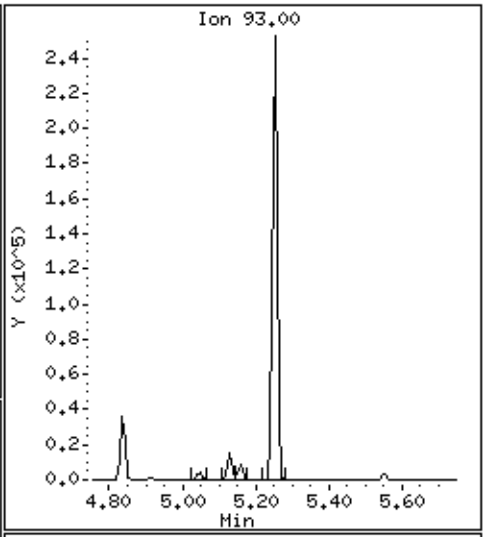
Operator: MJ

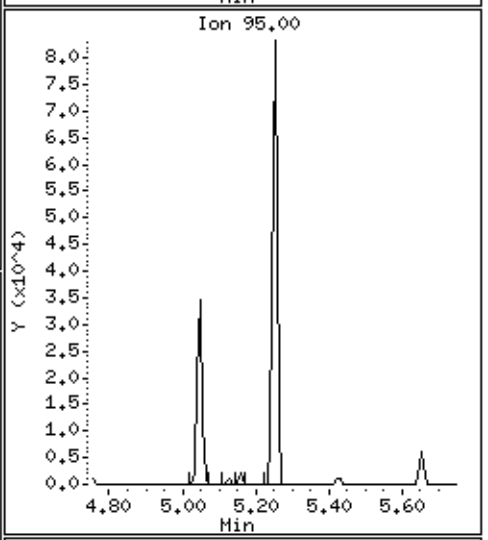
Column phase: HPMS-5 Column diameter: 0.25

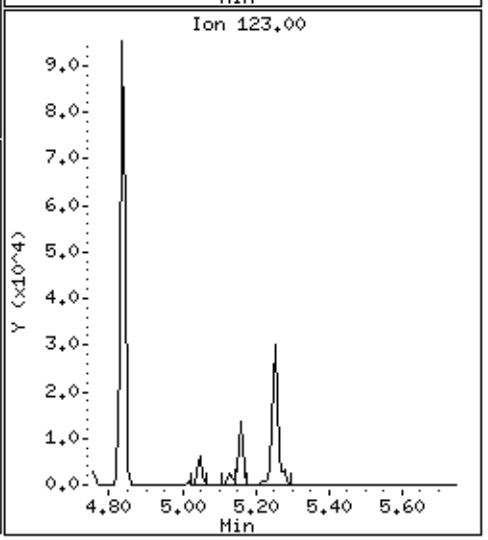
38 Bis(2-Chloroethoxy)methane Concentration: 59.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

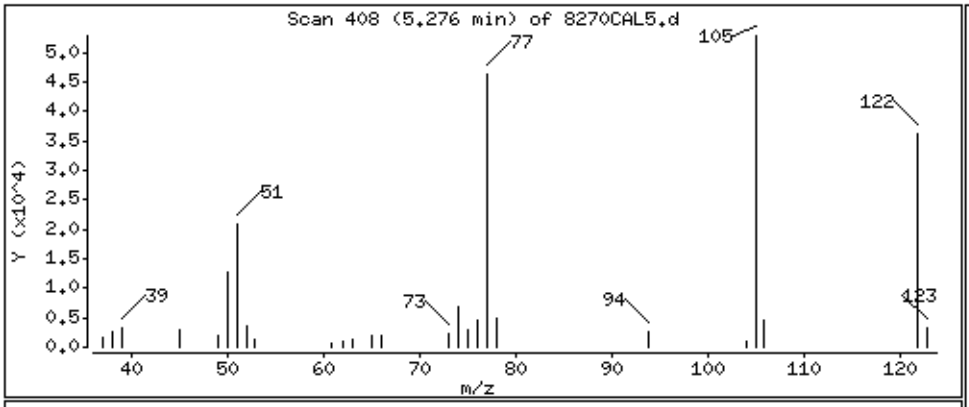
Client ID: 8270CAL5 Instrument: smsd04.i

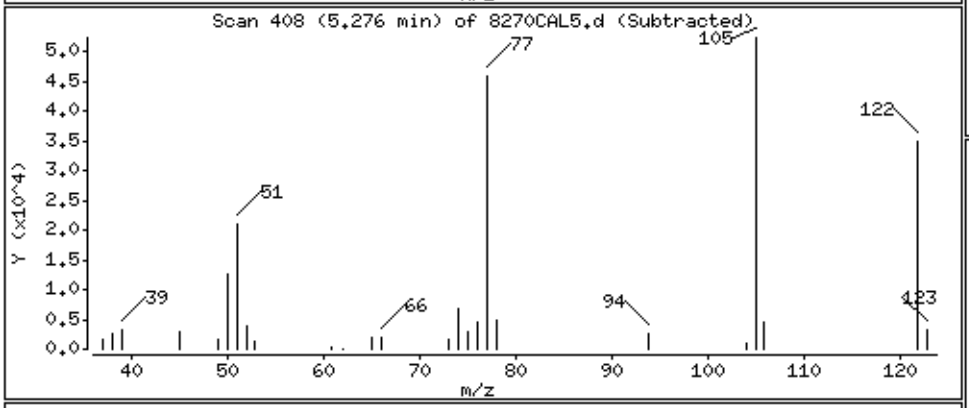
Sample Info: 47765

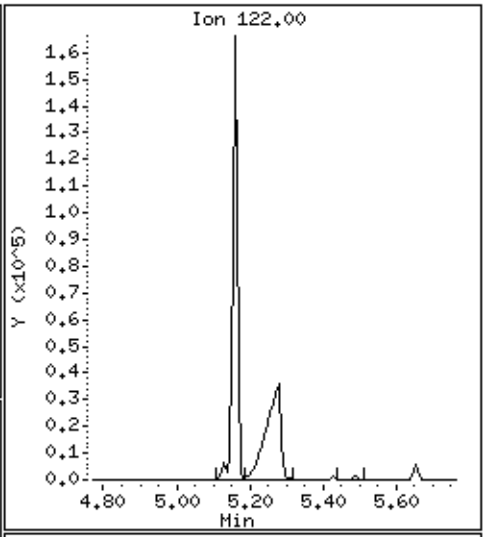
Operator: MJ

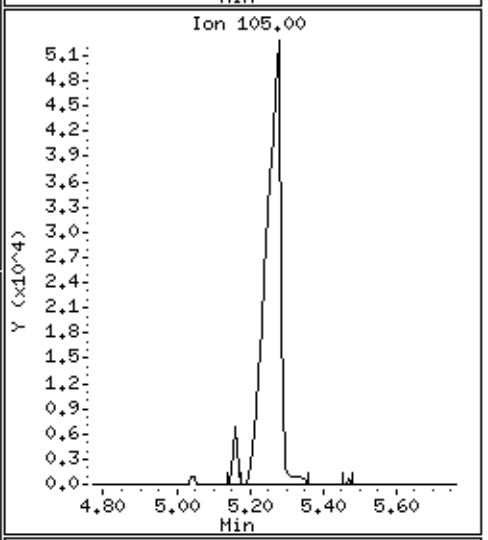
Column phase: HPMS-5 Column diameter: 0.25

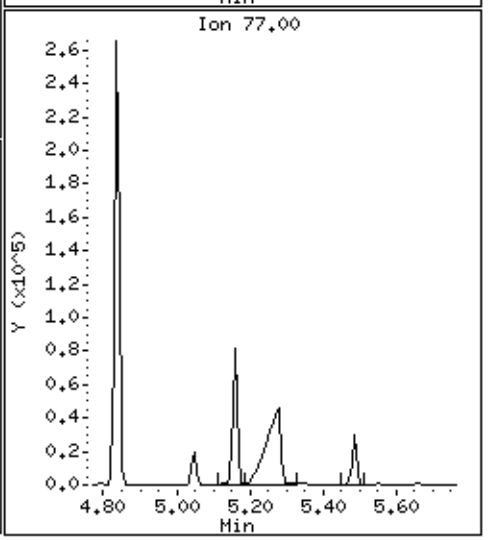
40 Benzoic Acid Concentration: 57.4 ug/kg











Date : 14-NOV-2012 23:22

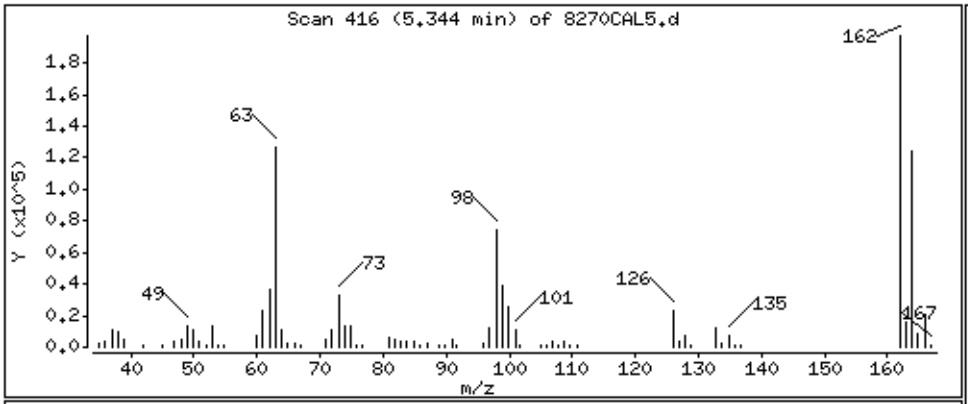
Client ID: 8270CAL5 Instrument: smsd04.i

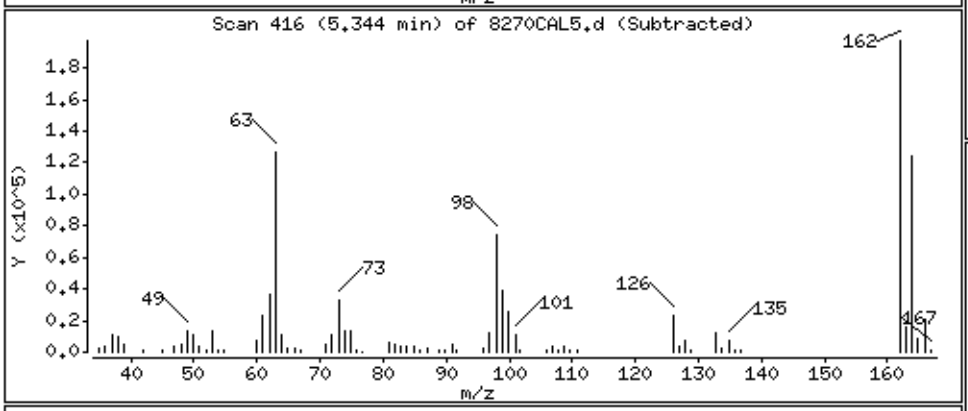
Sample Info: 47765

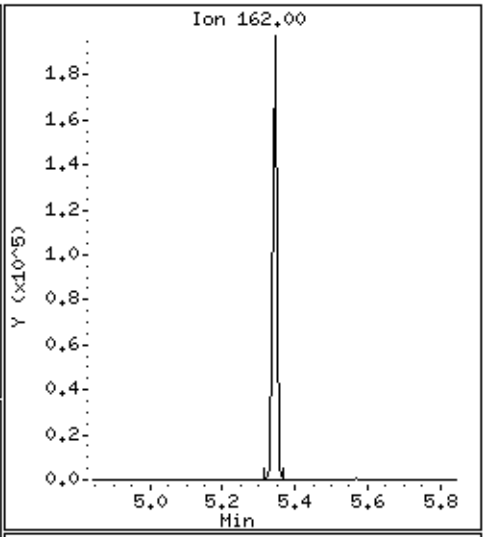
Operator: MJ

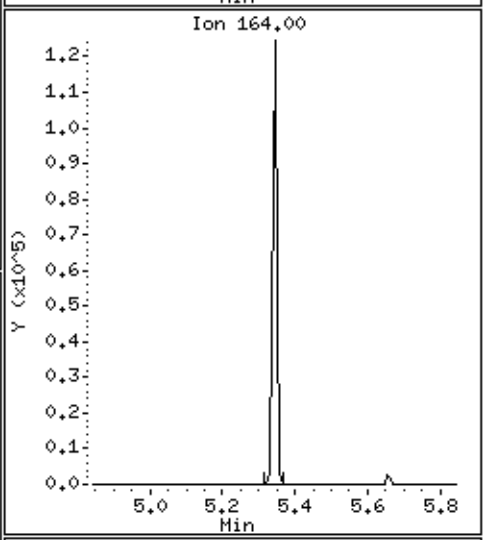
Column phase: HPMS-5 Column diameter: 0.25

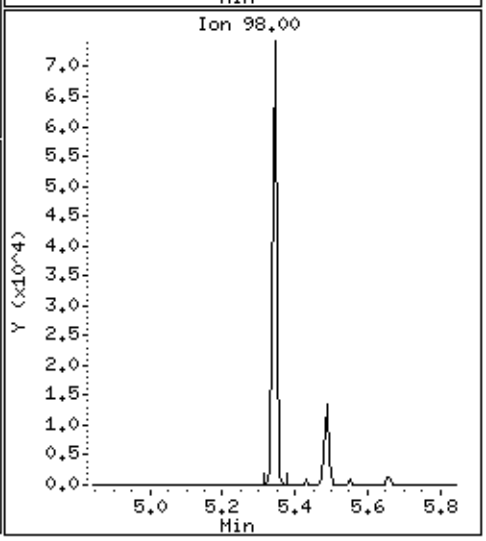
41 2,4-Dichlorophenol Concentration: 58.8 ug/kg











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Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

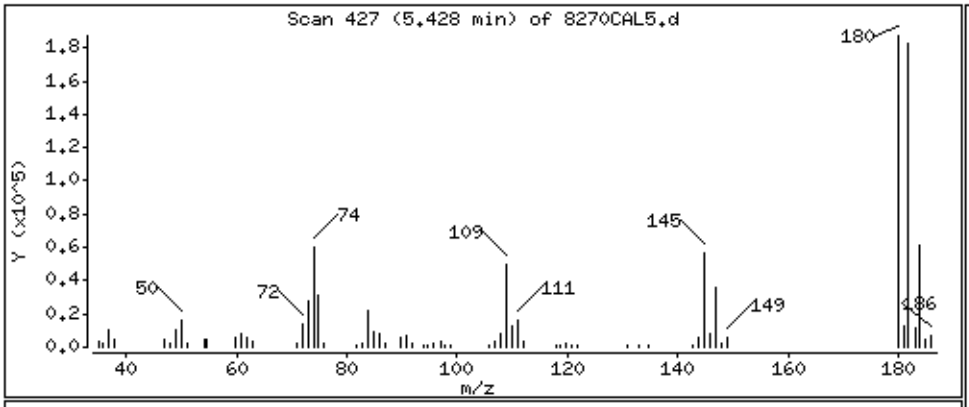
Operator: MJ

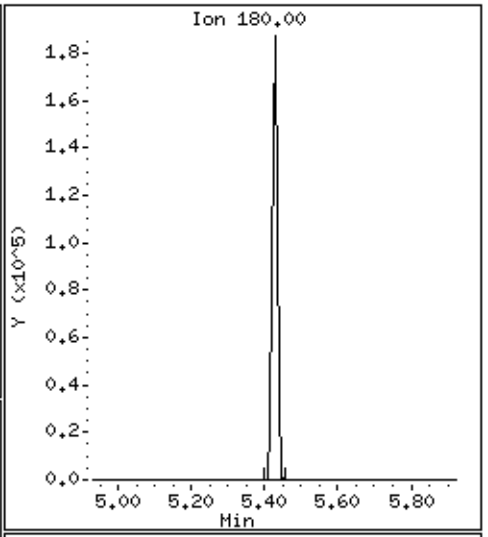
Column phase: HPMS-5

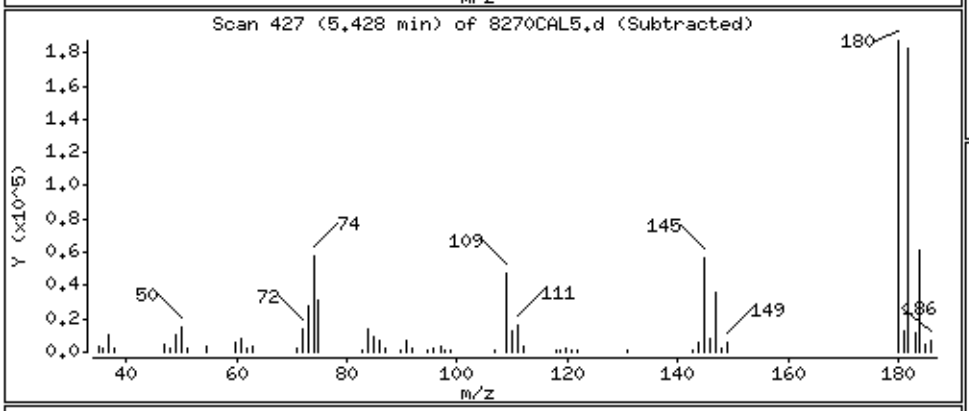
Column diameter: 0.25

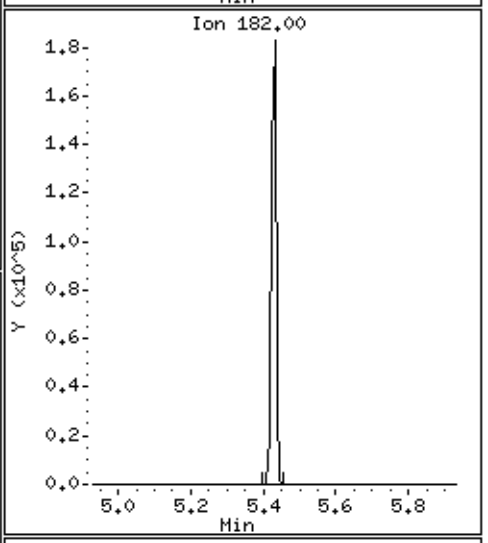
42 1,2,4-Trichlorobenzene

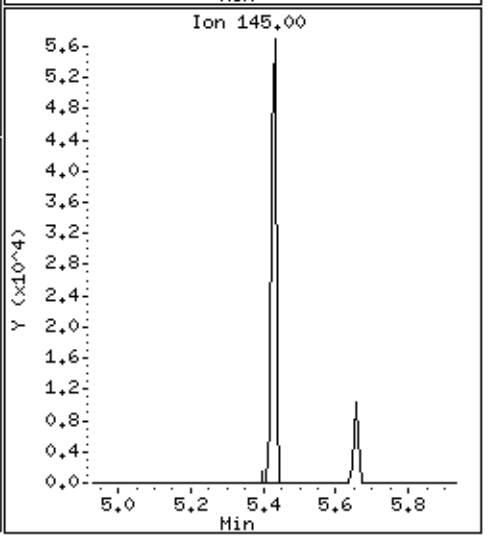
Concentration: 58.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

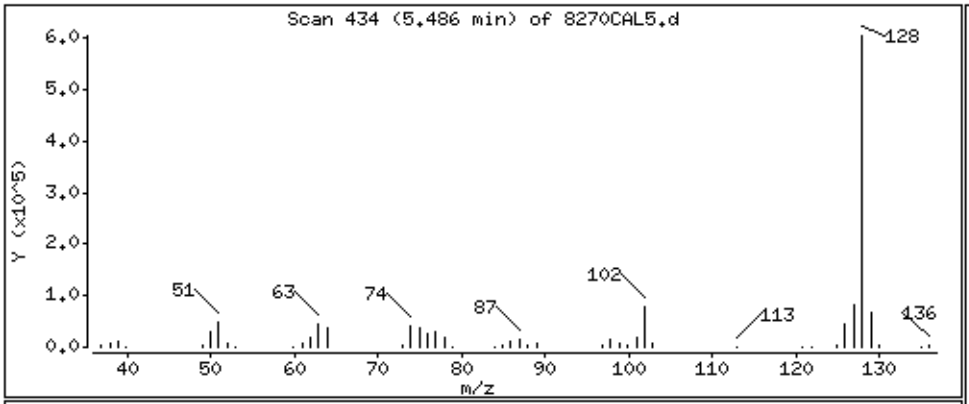
Operator: MJ

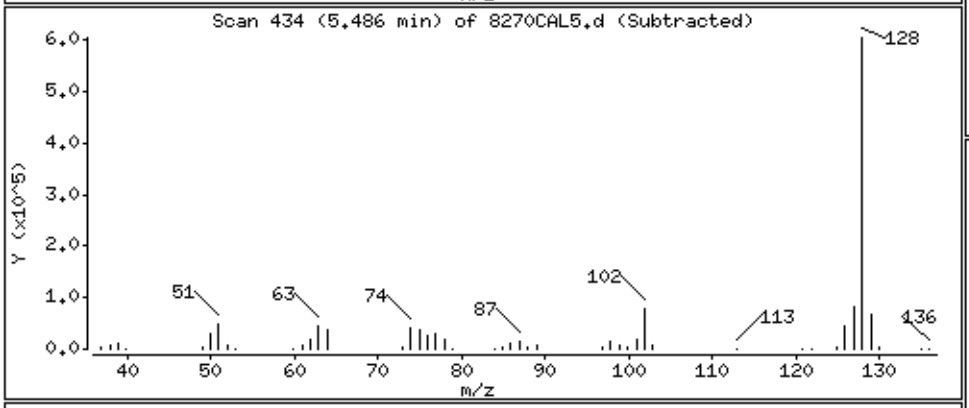
Column phase: HPMS-5

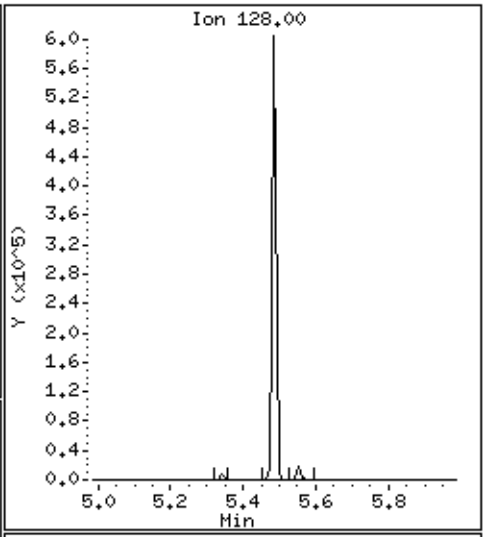
Column diameter: 0.25

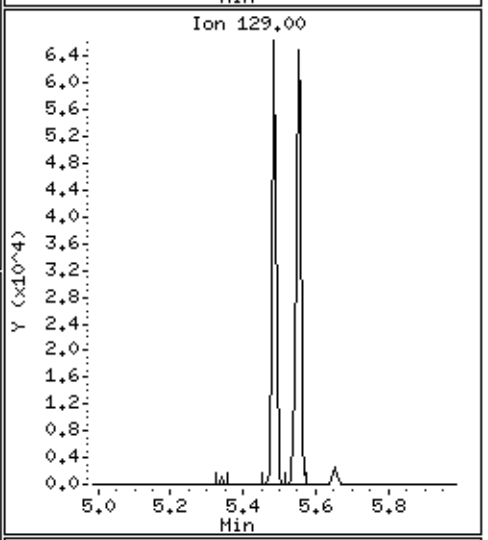
44 Naphthalene

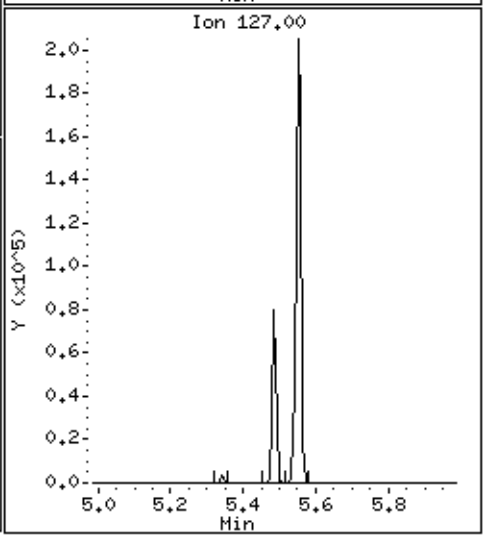
Concentration: 58.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

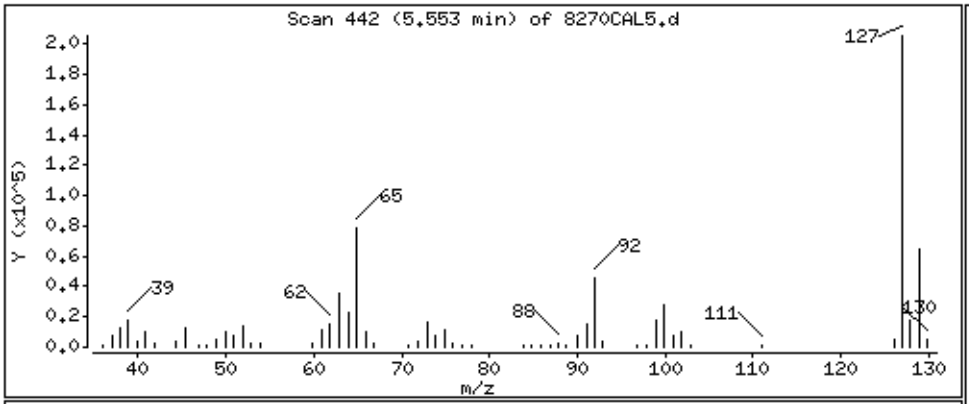
Operator: MJ

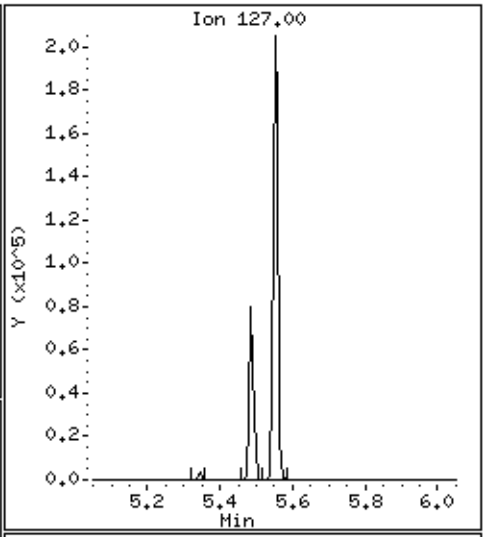
Column phase: HPMS-5

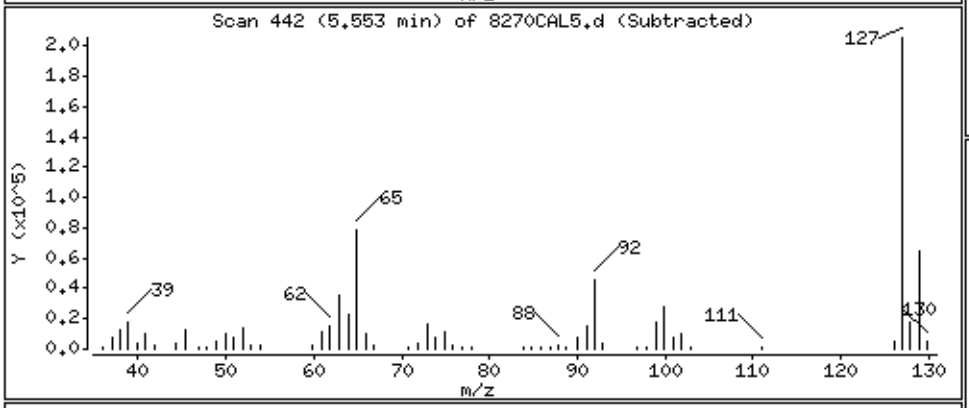
Column diameter: 0.25

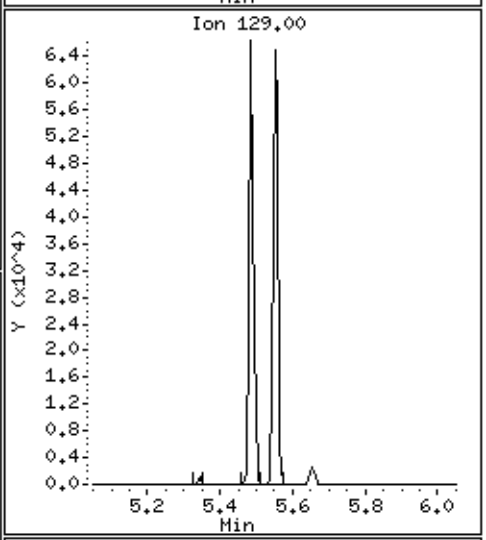
45 4-Chloroaniline

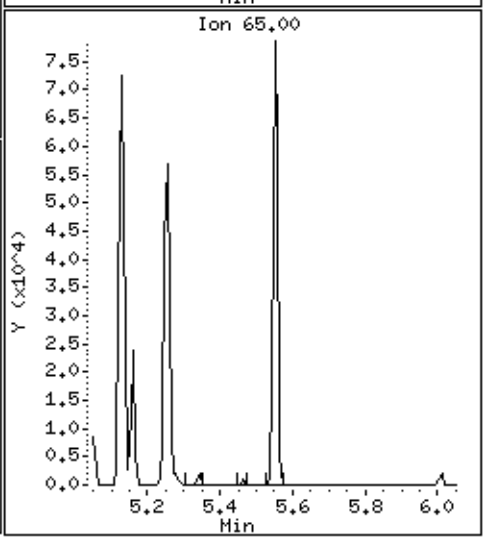
Concentration: 59.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

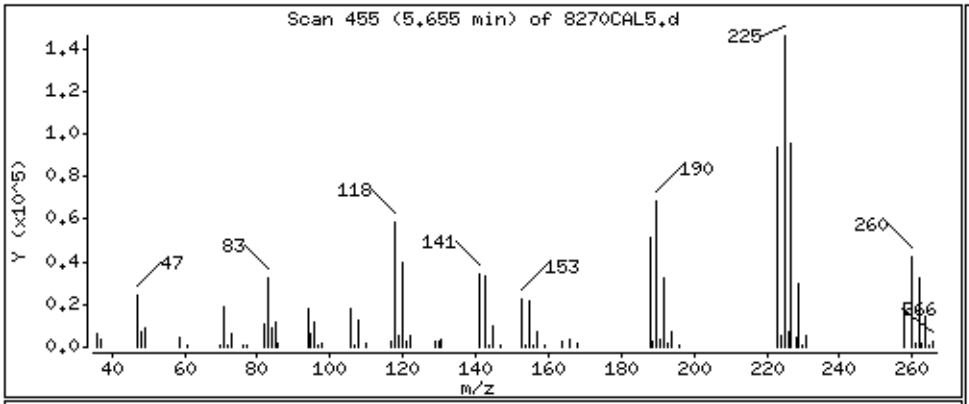
Operator: MJ

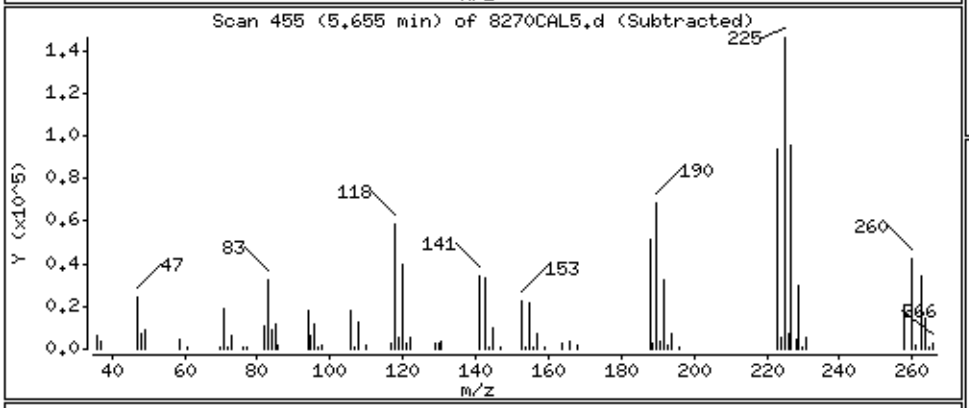
Column phase: HPMS-5

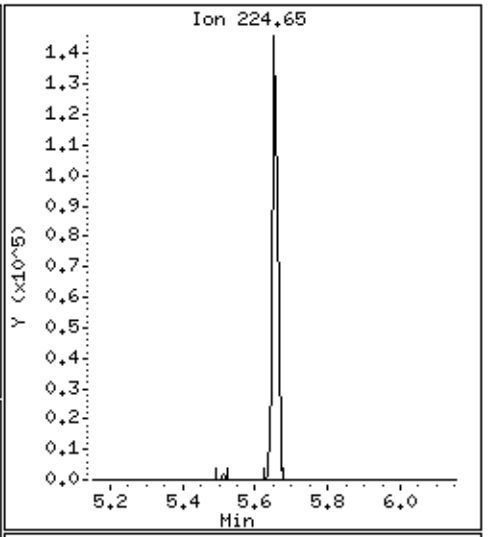
Column diameter: 0.25

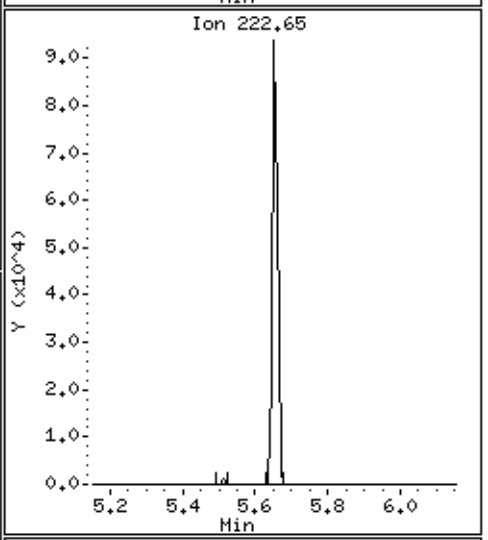
48 Hexachlorobutadiene

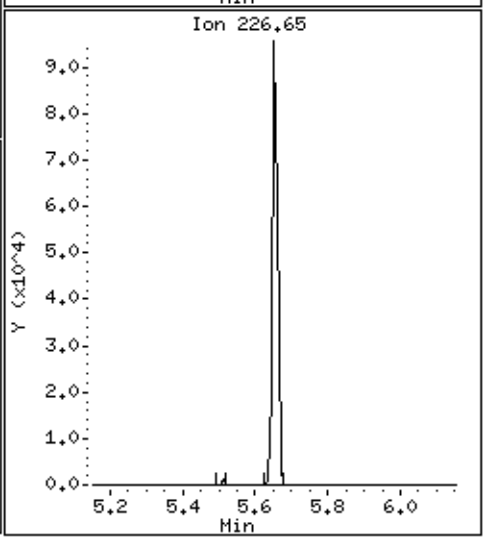
Concentration: 58.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

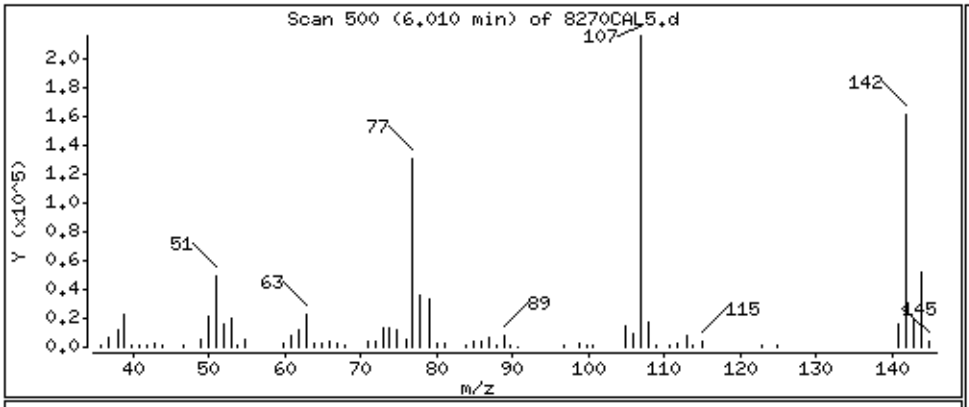
Operator: MJ

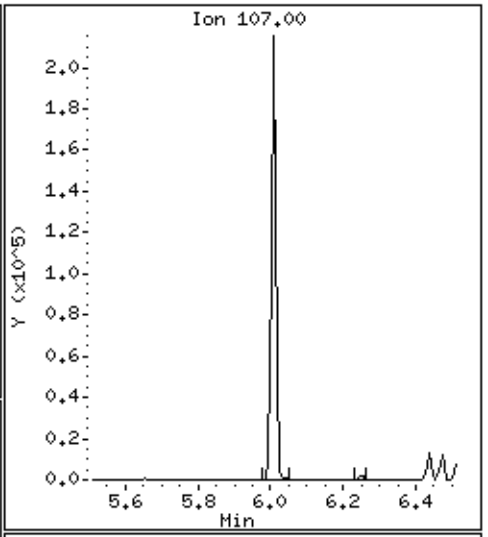
Column phase: HPMS-5

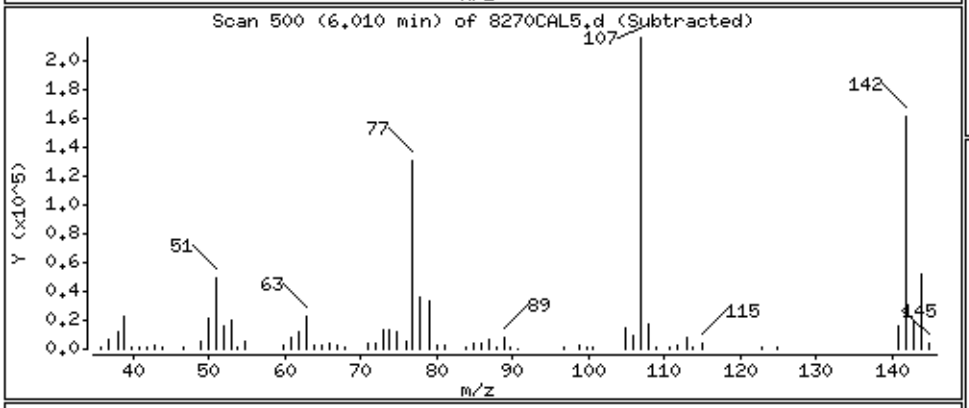
Column diameter: 0.25

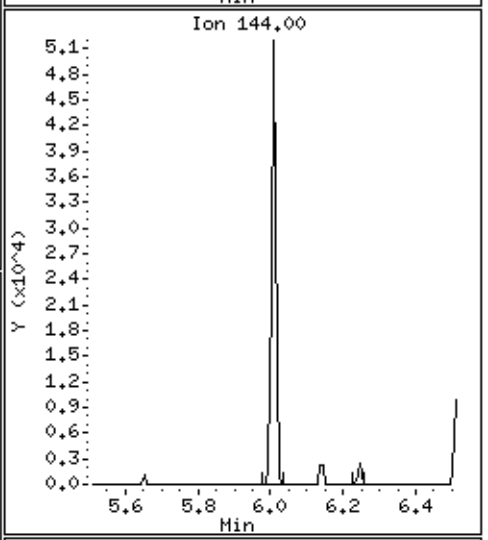
51 4-Chloro-3-methylphenol

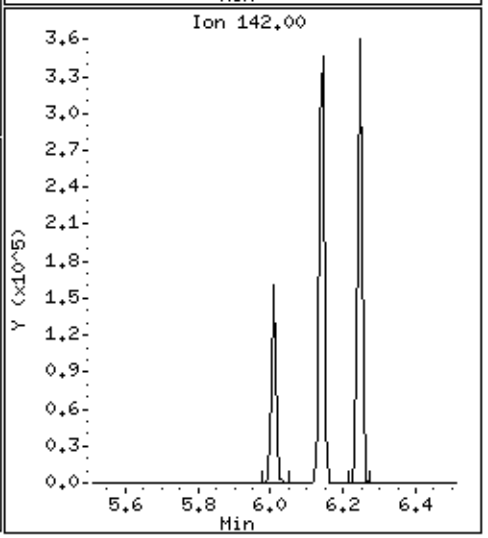
Concentration: 59.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

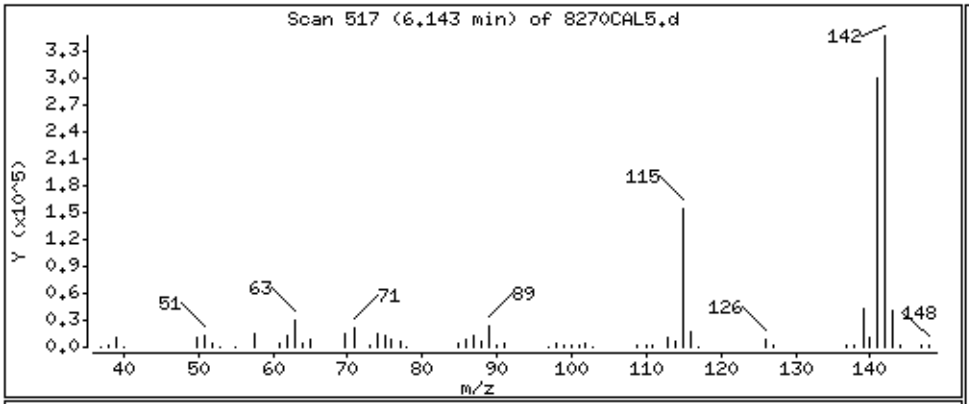
Operator: MJ

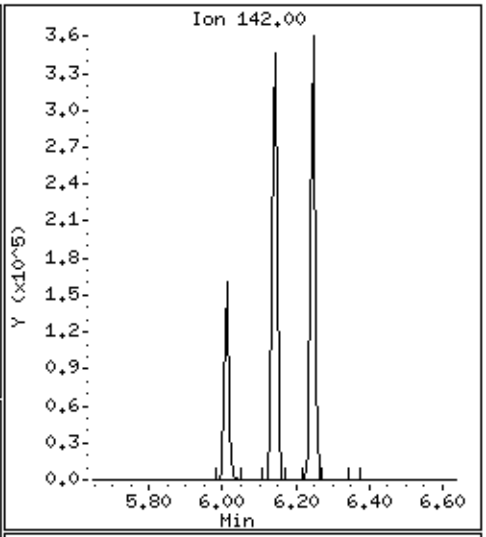
Column phase: HPMS-5

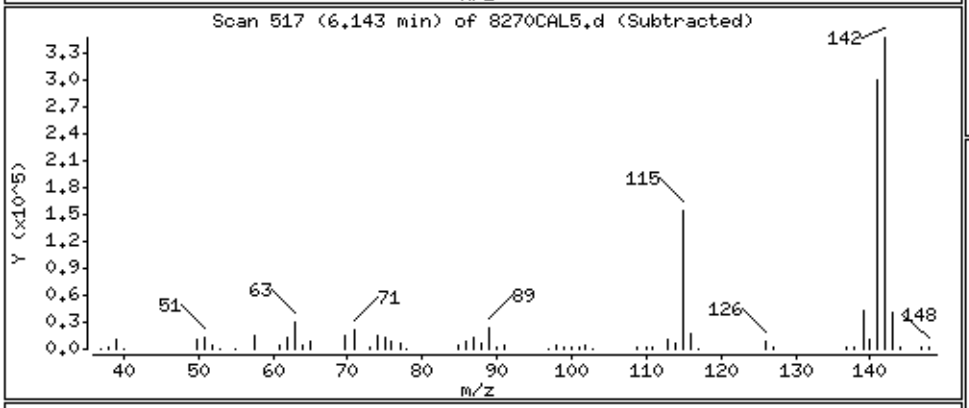
Column diameter: 0.25

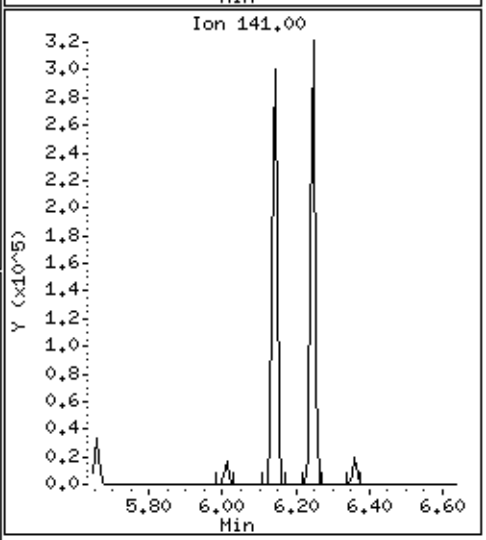
53 2-Methylnaphthalene

Concentration: 59.0 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

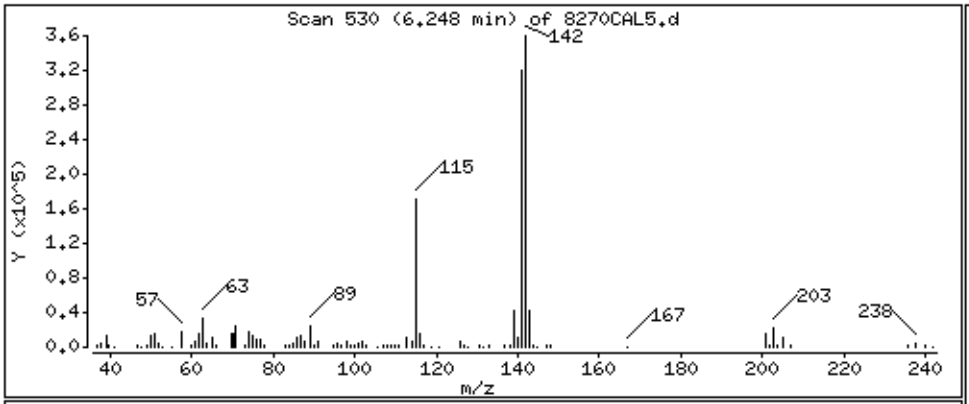
Operator: MJ

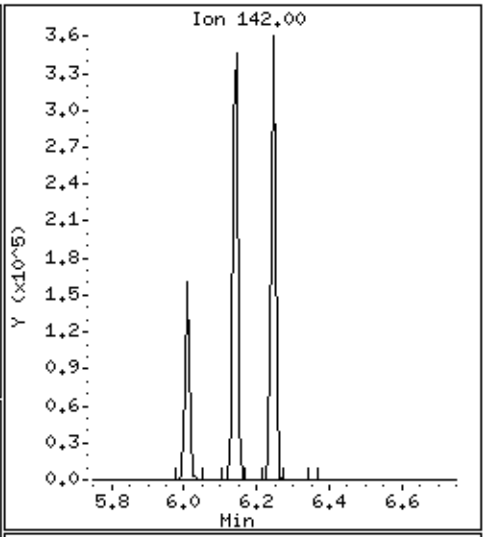
Column phase: HPMS-5

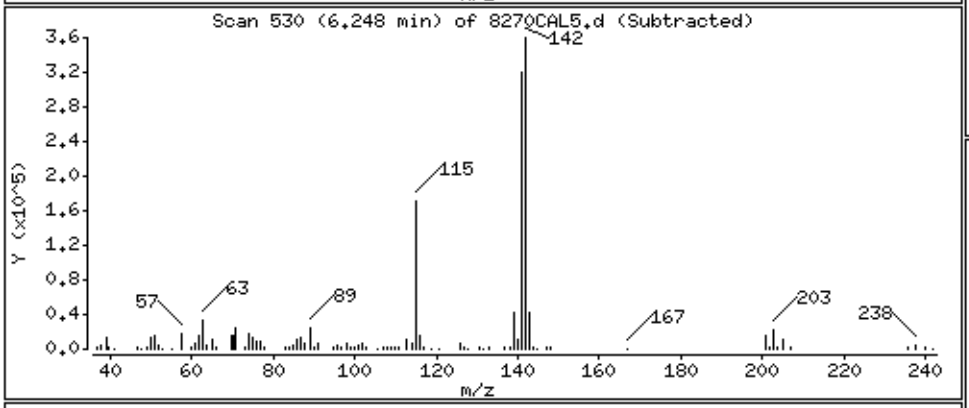
Column diameter: 0.25

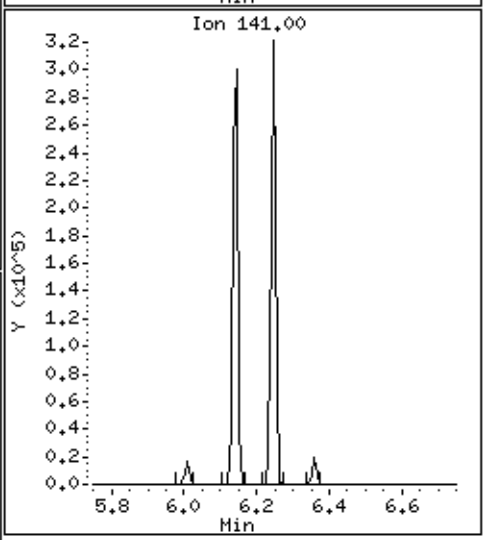
54 1-Methylnaphthalene

Concentration: 58.5 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

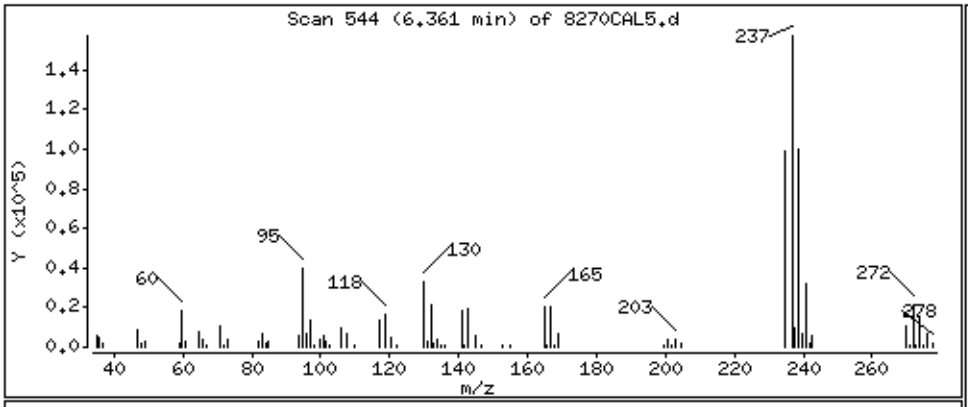
Operator: MJ

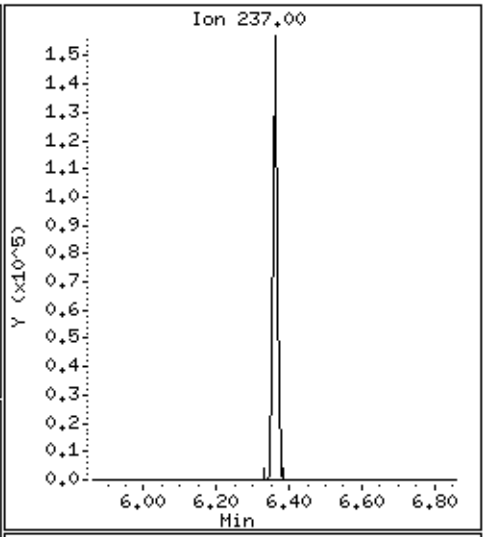
Column phase: HPMS-5

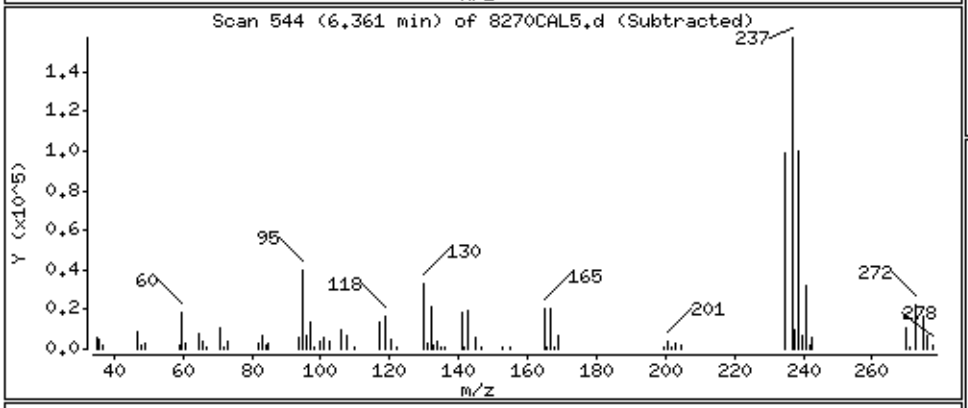
Column diameter: 0.25

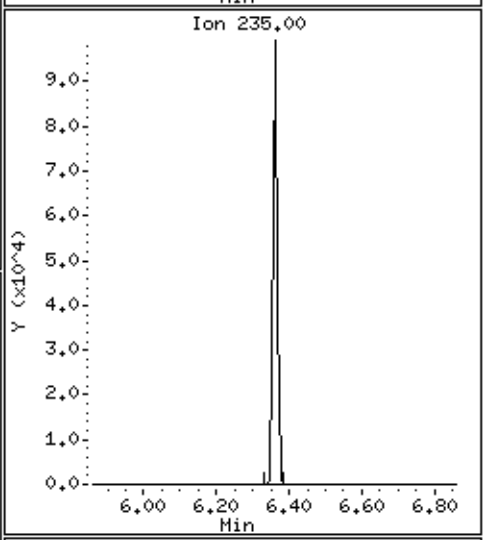
55 Hexachlorocyclopentadiene

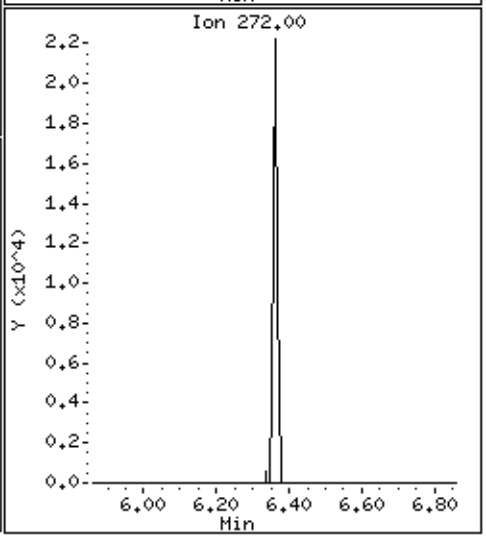
Concentration: 61.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

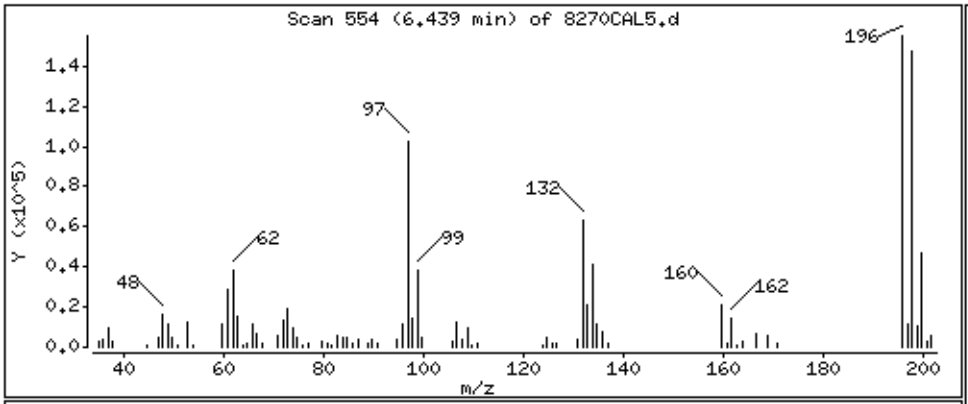
Operator: MJ

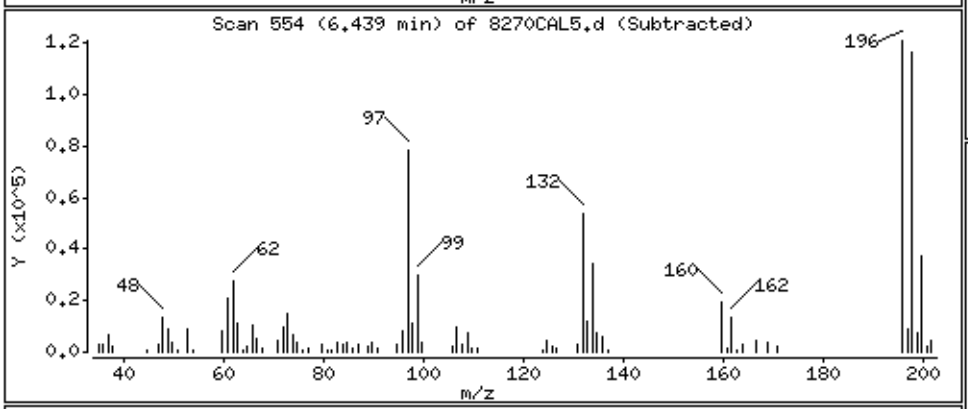
Column phase: HPMS-5

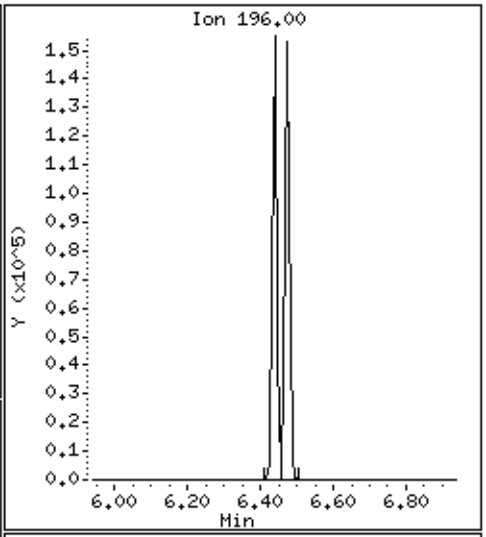
Column diameter: 0.25

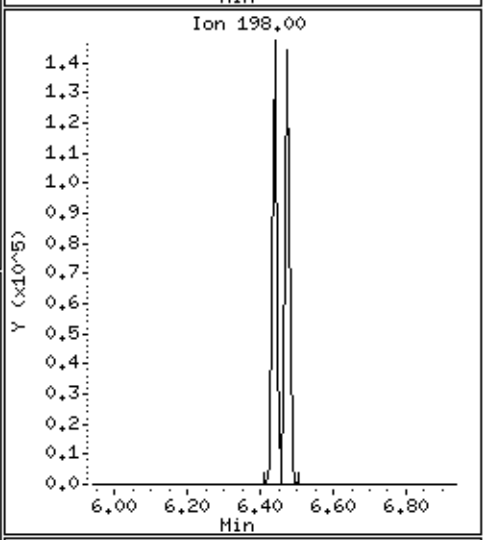
57 2,4,6-Trichlorophenol

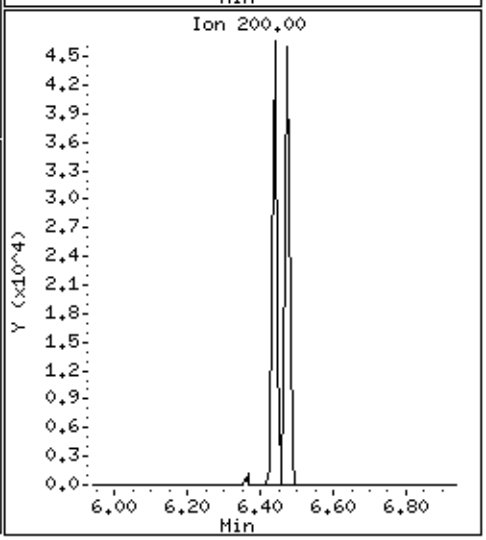
Concentration: 59.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

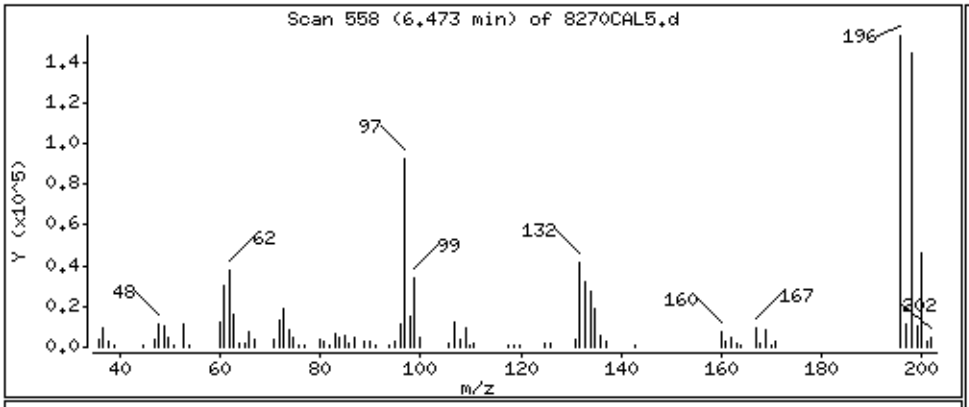
Operator: MJ

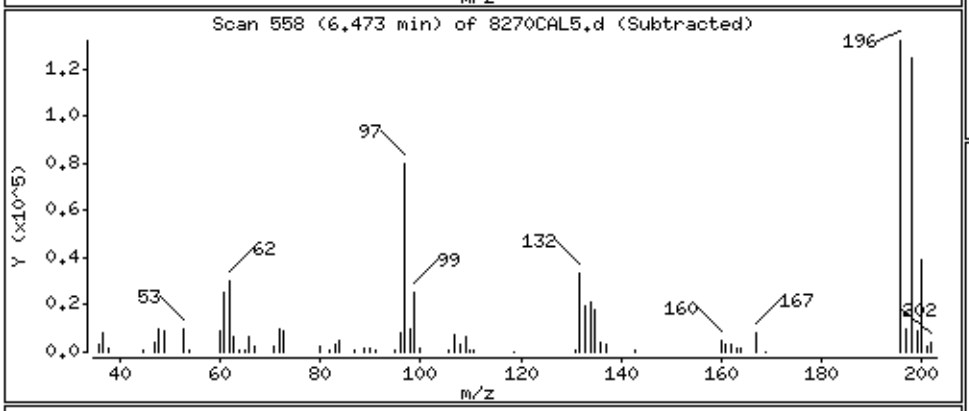
Column phase: HPMS-5

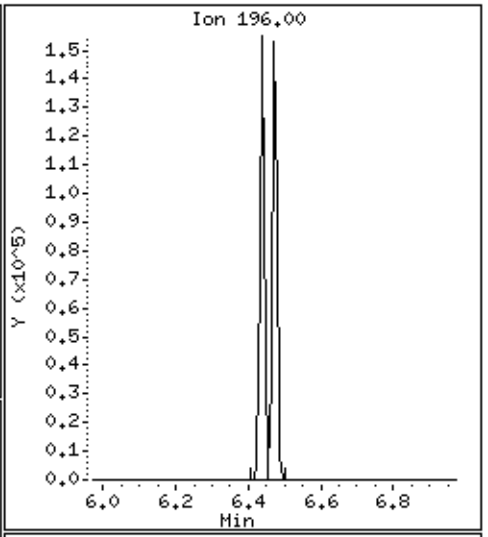
Column diameter: 0.25

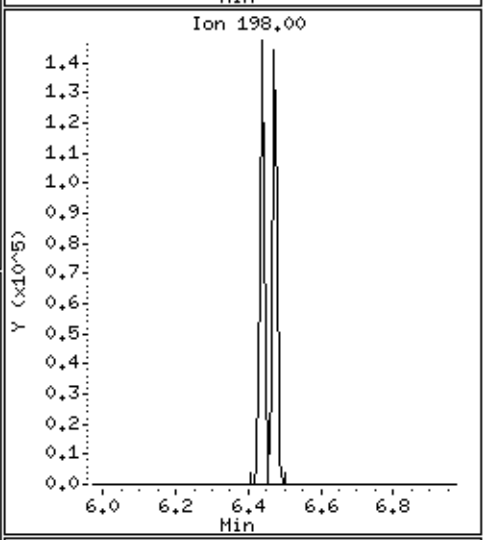
58 2,4,5-Trichlorophenol

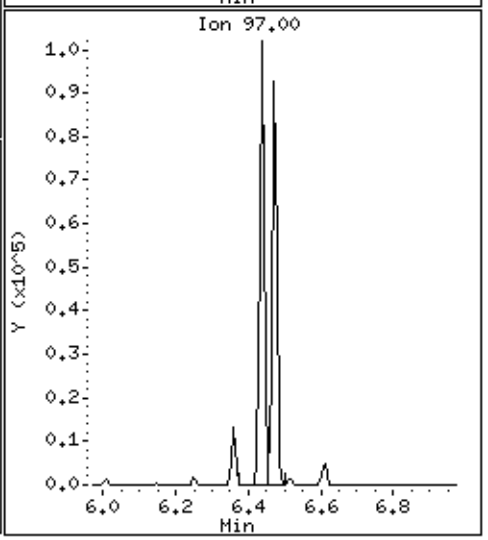
Concentration: 58.8 ug/kg











Date : 14-NOV-2012 23:22

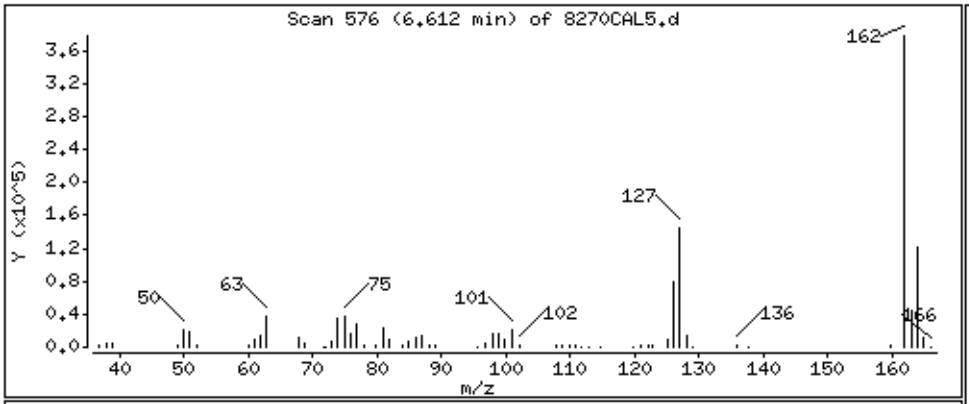
Client ID: 8270CAL5 Instrument: smsd04.i

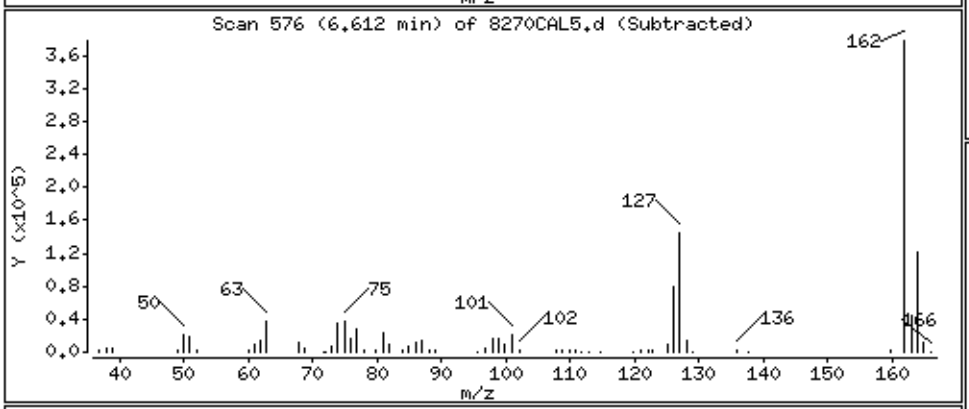
Sample Info: 47765

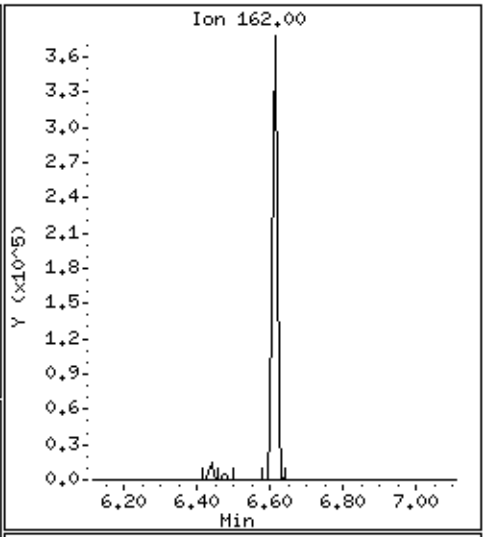
Operator: MJ

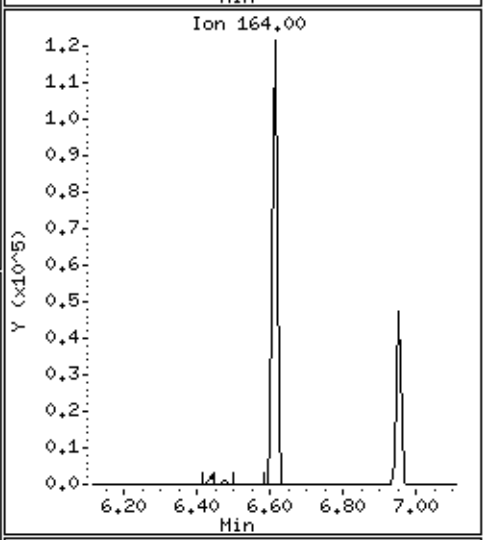
Column phase: HPMS-5 Column diameter: 0.25

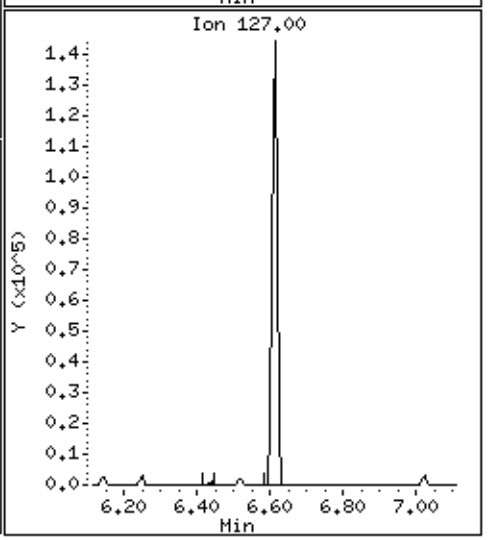
62 2-Chloronaphthalene Concentration: 59.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

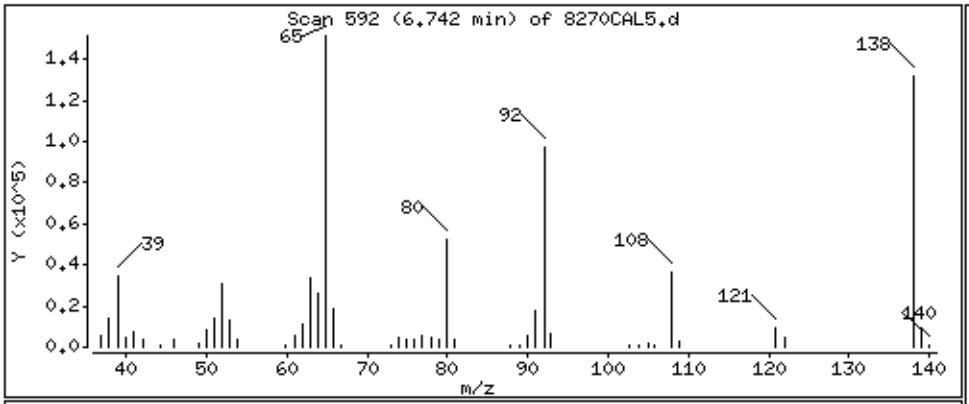
Operator: MJ

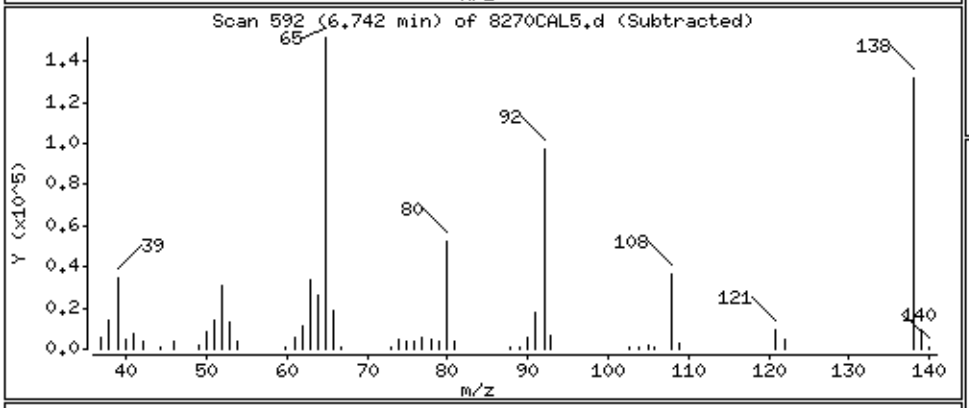
Column phase: HPMS-5

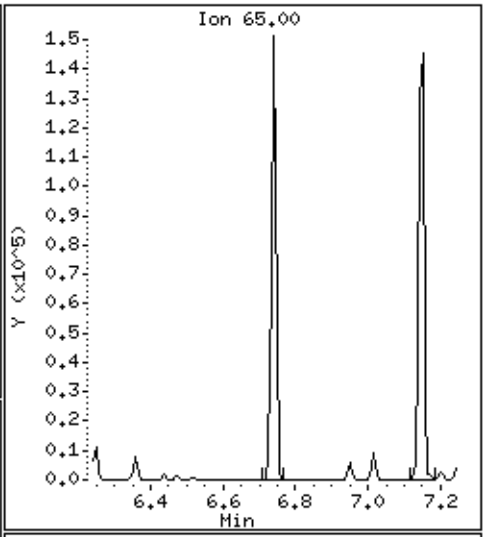
Column diameter: 0.25

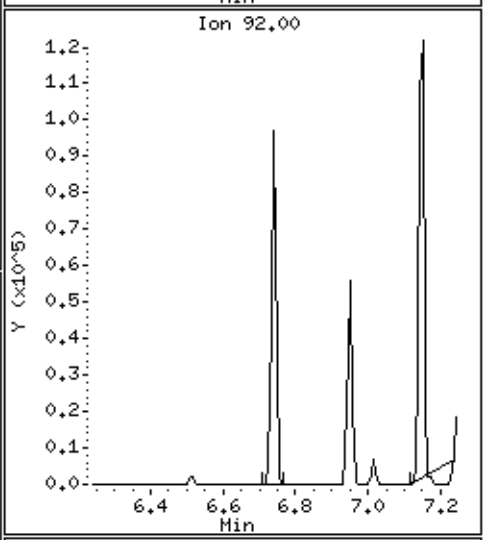
63 2-Nitroaniline

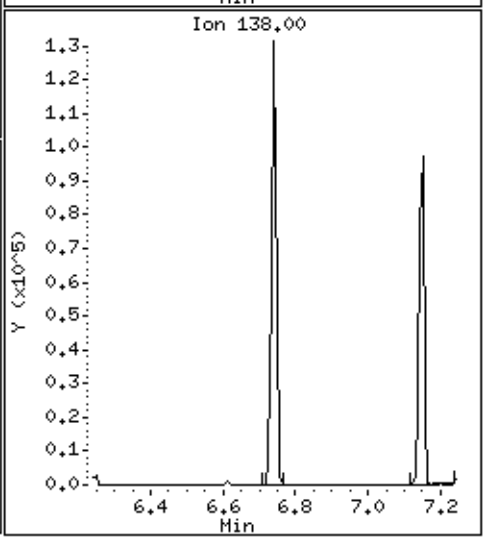
Concentration: 61.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

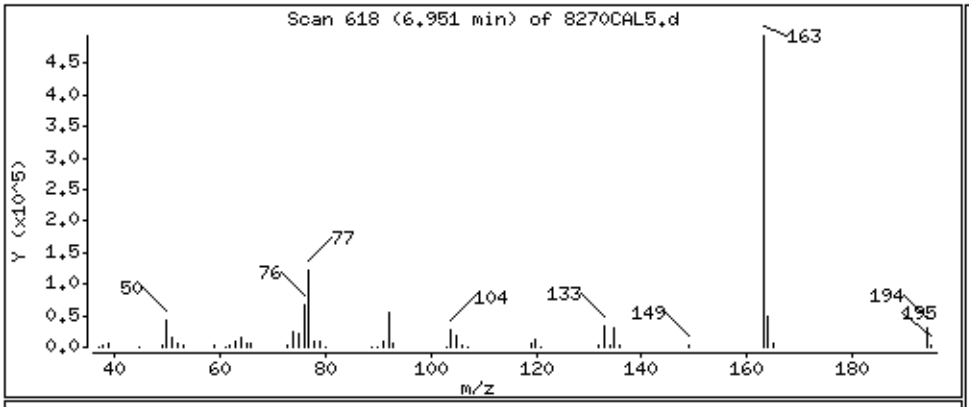
Operator: MJ

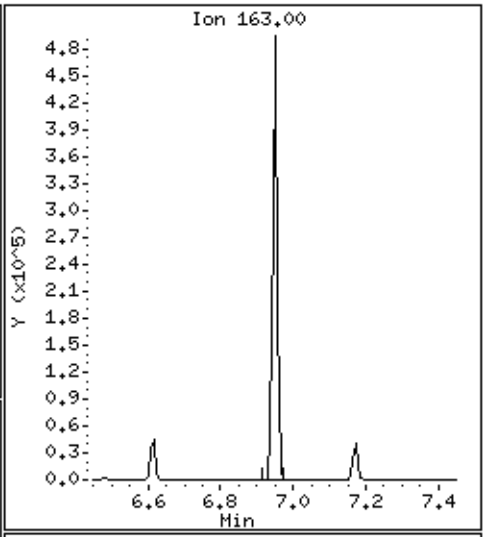
Column phase: HPMS-5

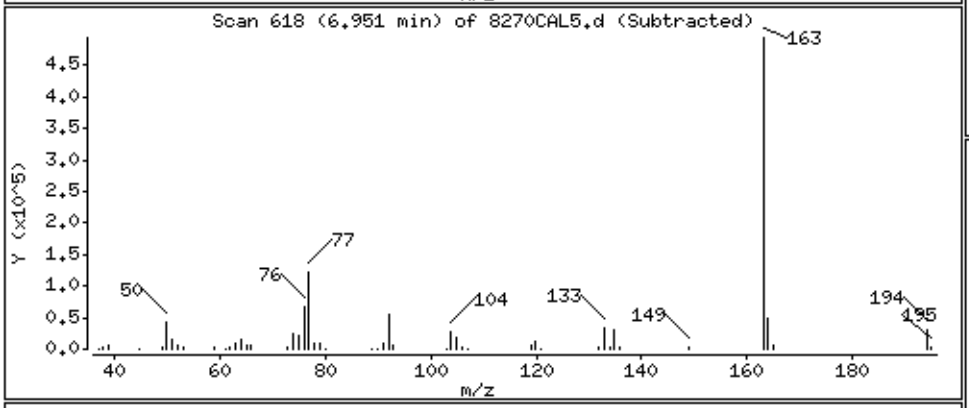
Column diameter: 0.25

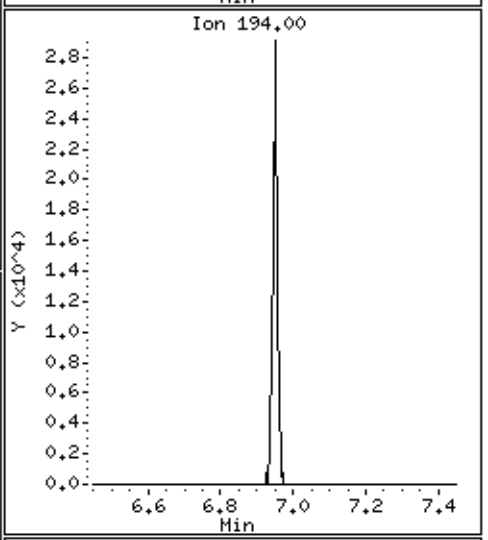
65 Dimethylphthalate

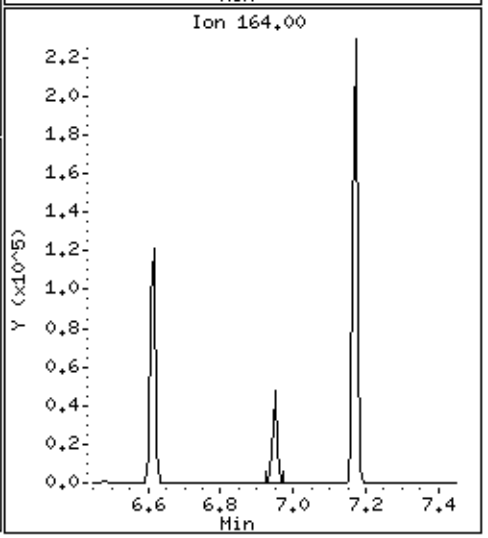
Concentration: 61.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

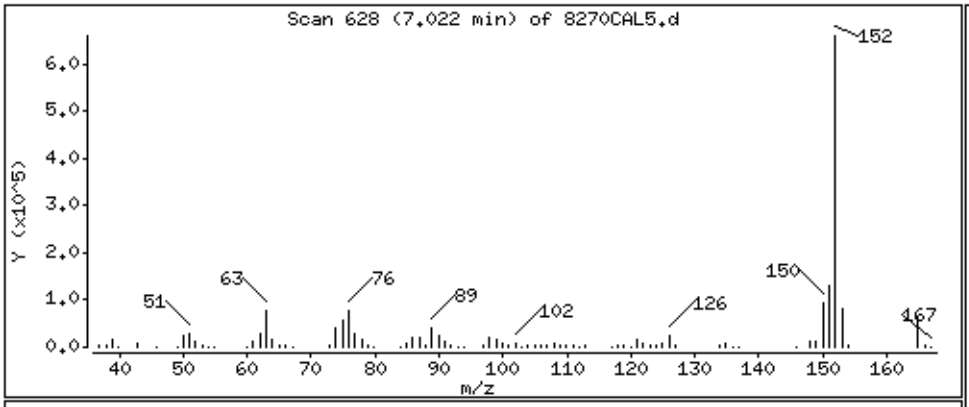
Operator: MJ

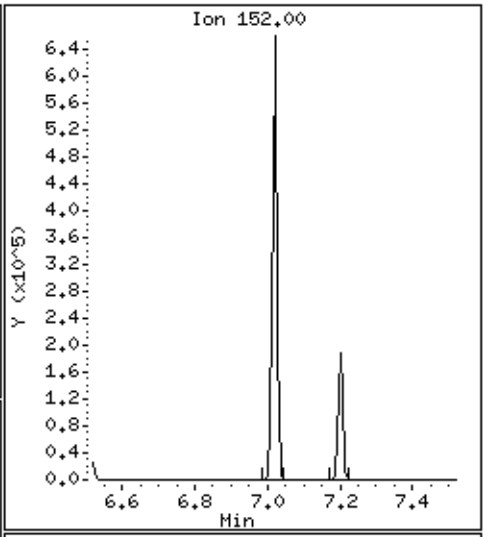
Column phase: HPMS-5

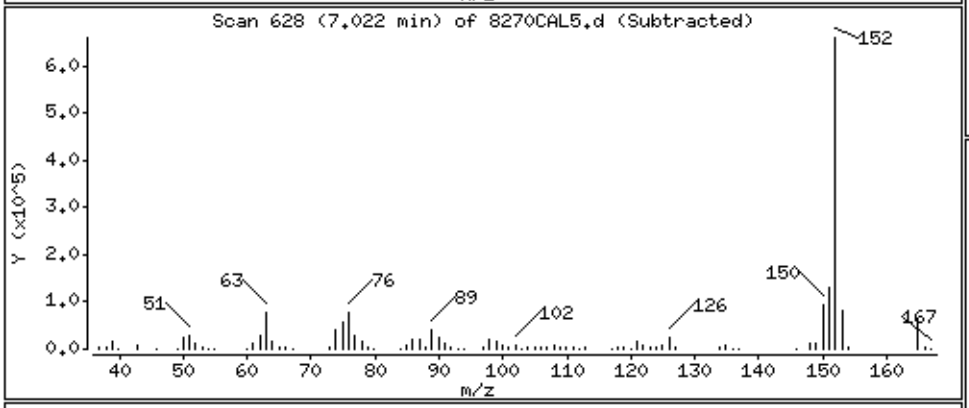
Column diameter: 0.25

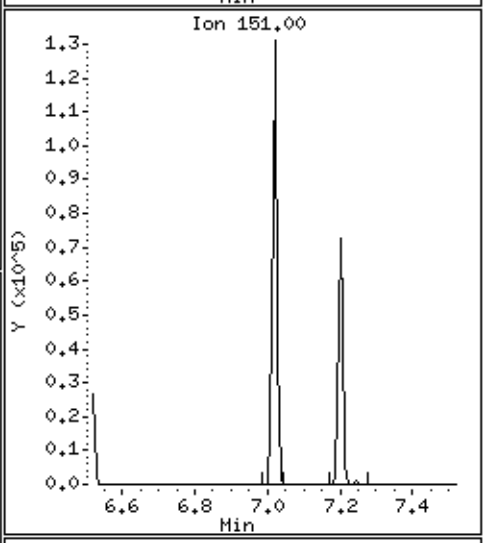
68 Acenaphthylene

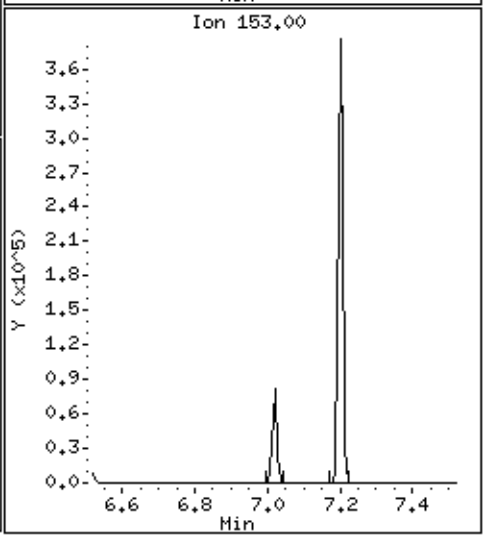
Concentration: 59.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

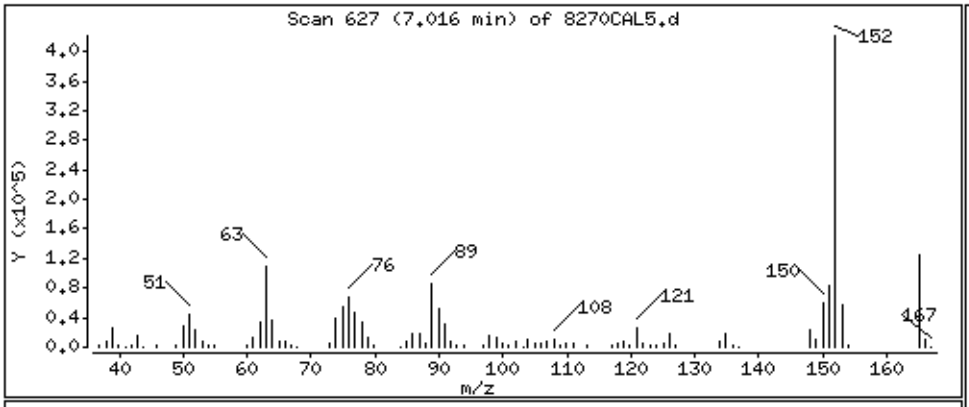
Operator: MJ

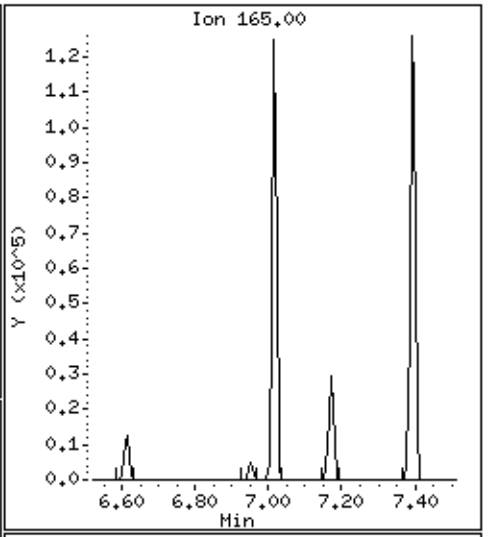
Column phase: HPMS-5

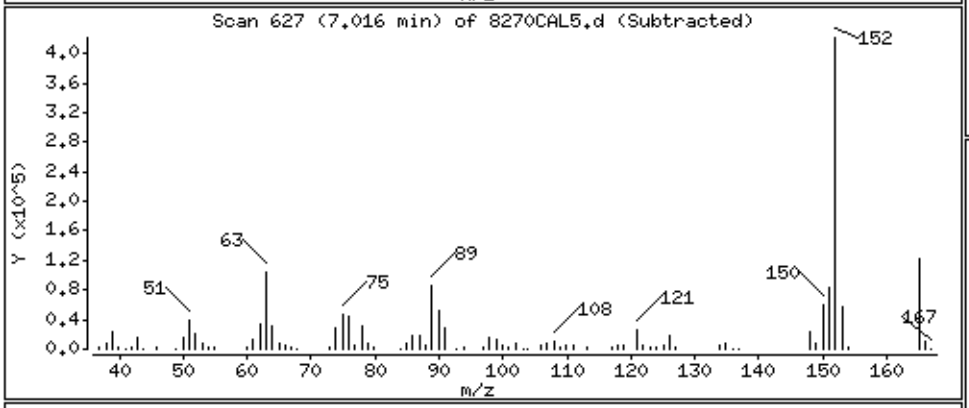
Column diameter: 0.25

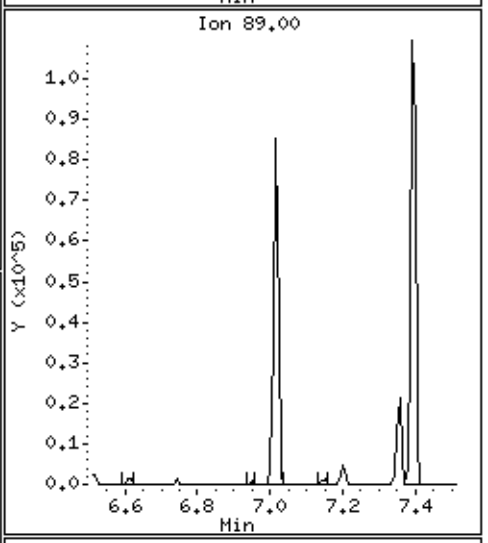
67 2,6-Dinitrotoluene

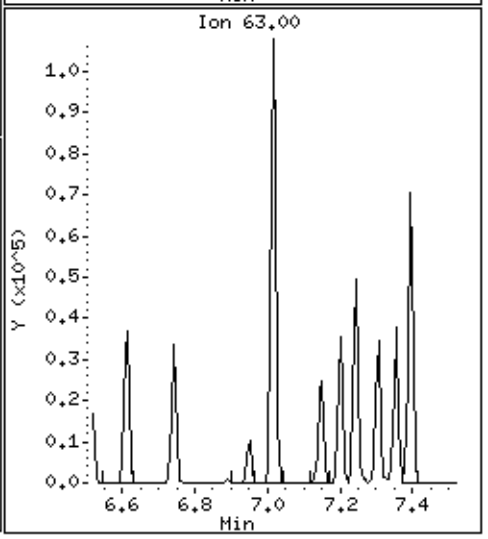
Concentration: 61.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

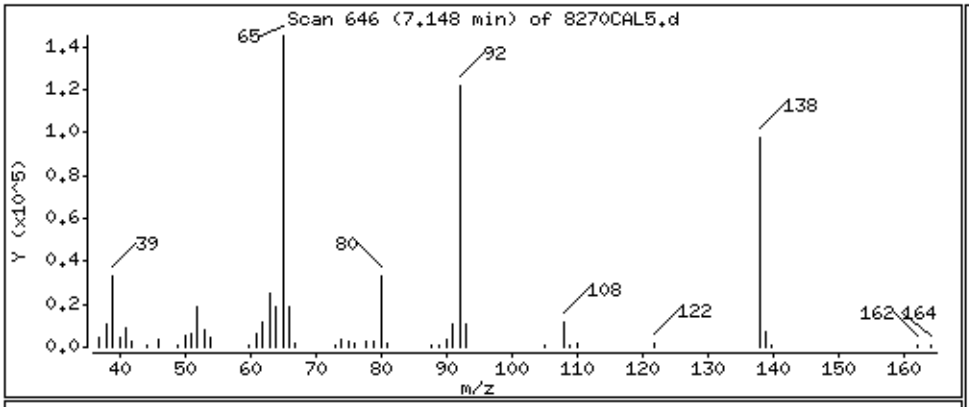
Operator: MJ

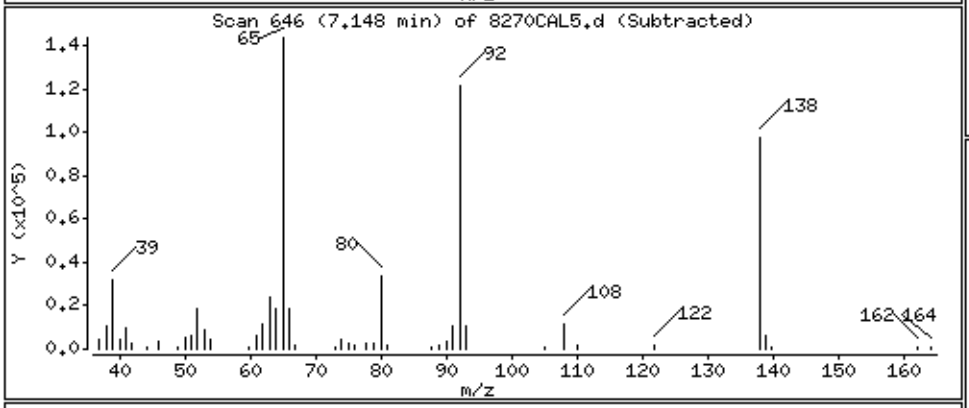
Column phase: HPMS-5

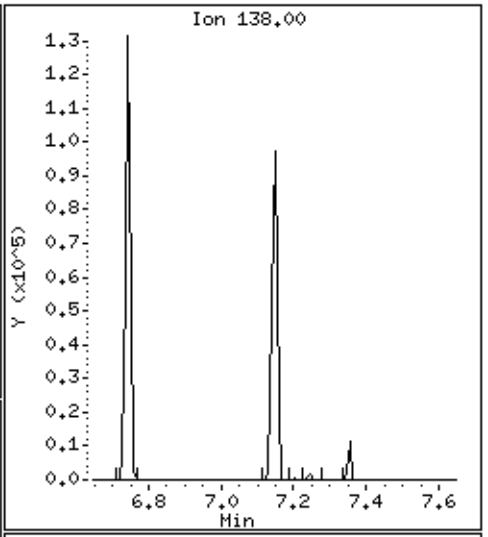
Column diameter: 0.25

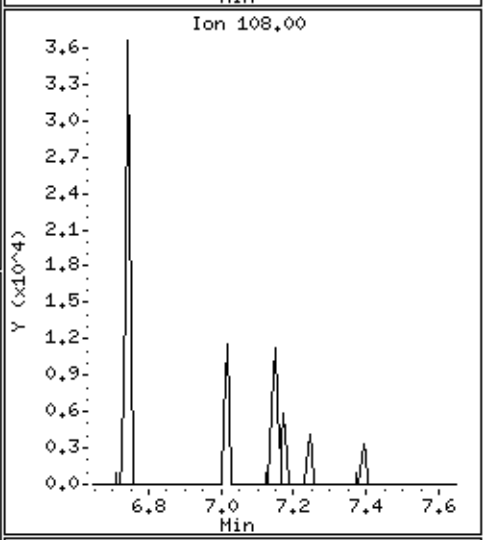
69 3-Nitroaniline

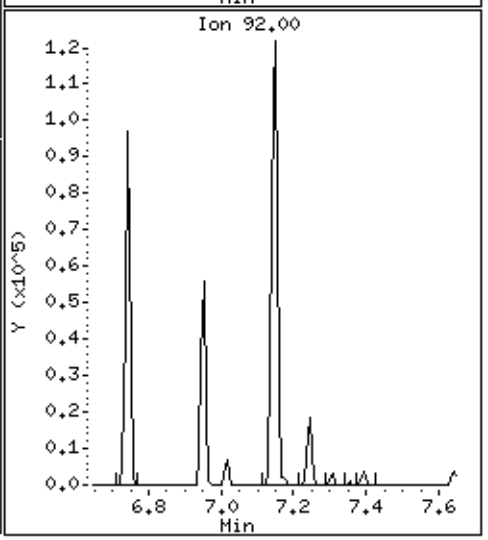
Concentration: 60.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

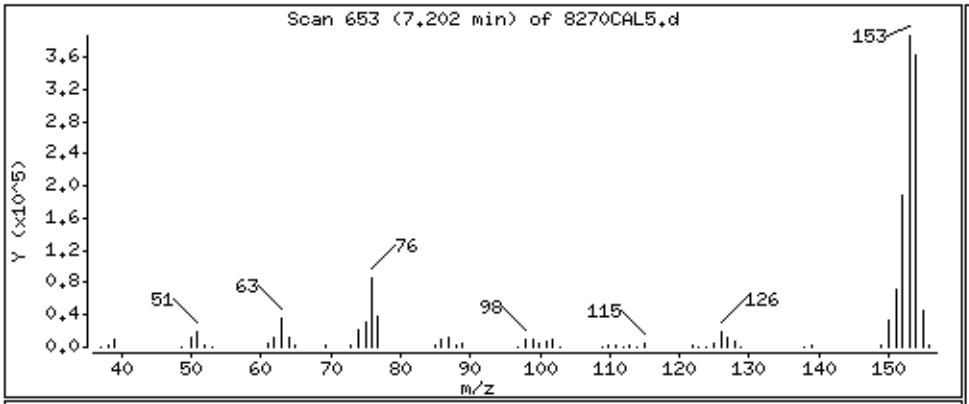
Operator: MJ

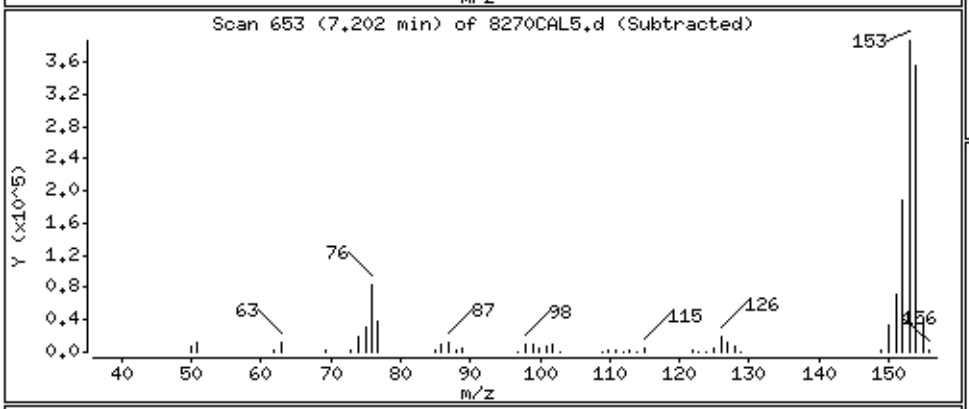
Column phase: HPMS-5

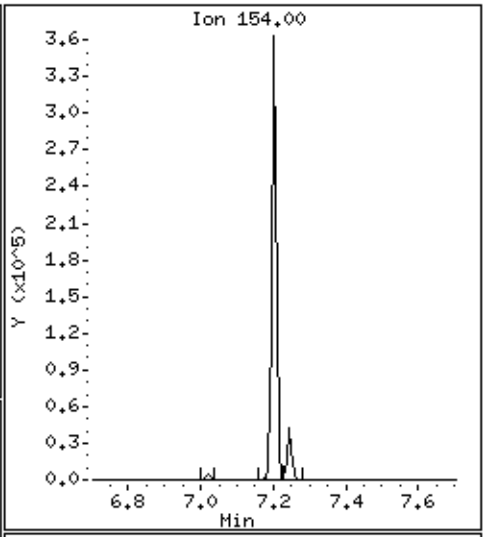
Column diameter: 0.25

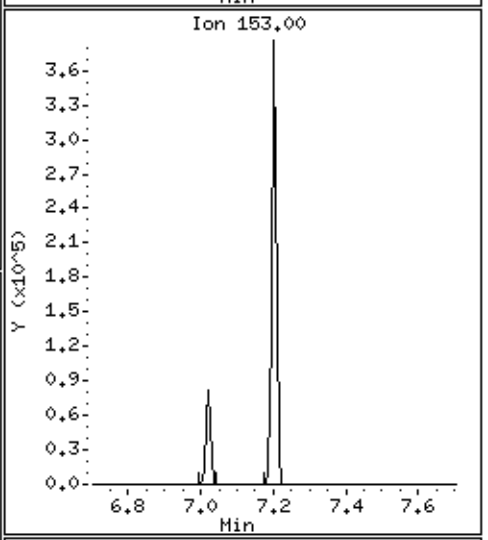
71 Acenaphthene

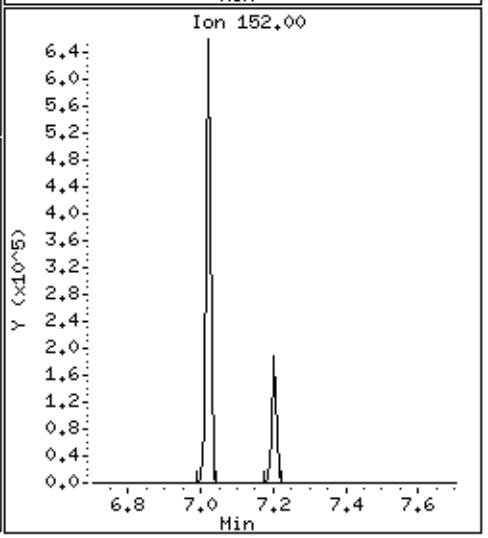
Concentration: 59.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

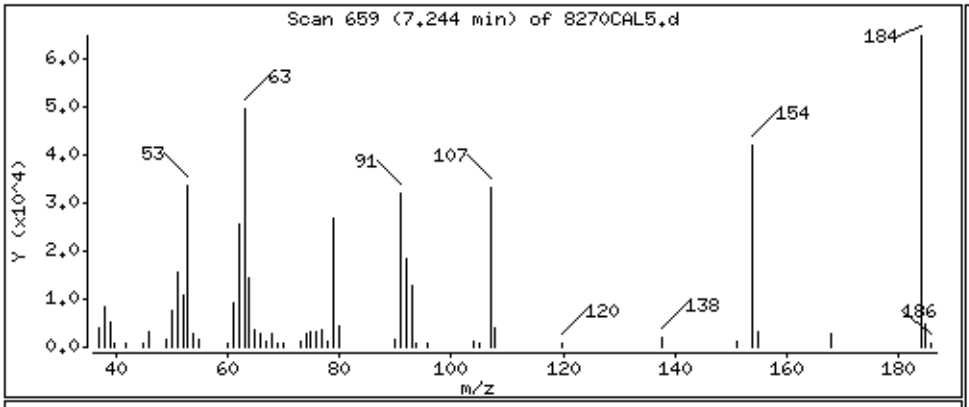
Operator: MJ

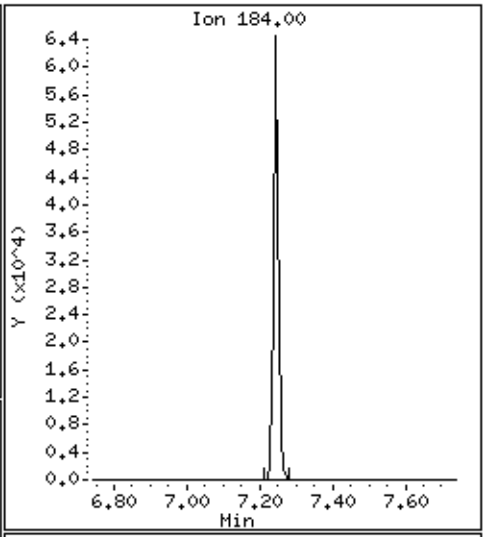
Column phase: HPMS-5

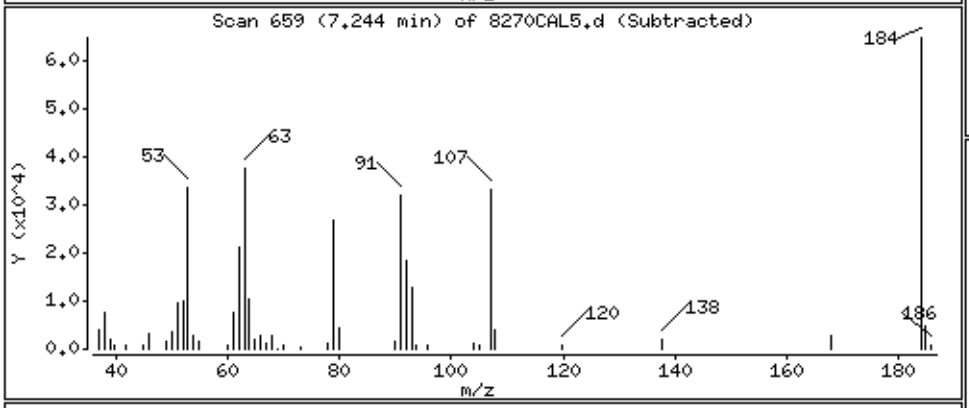
Column diameter: 0.25

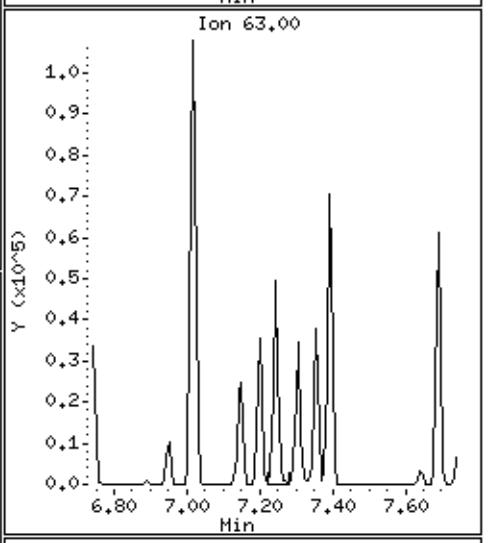
72 2,4-Dinitrophenol

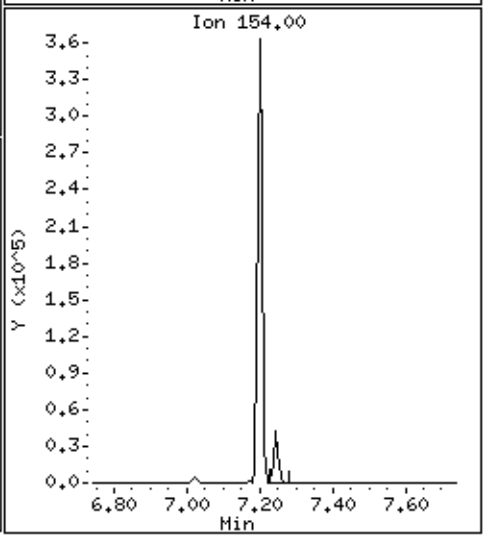
Concentration: 63.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

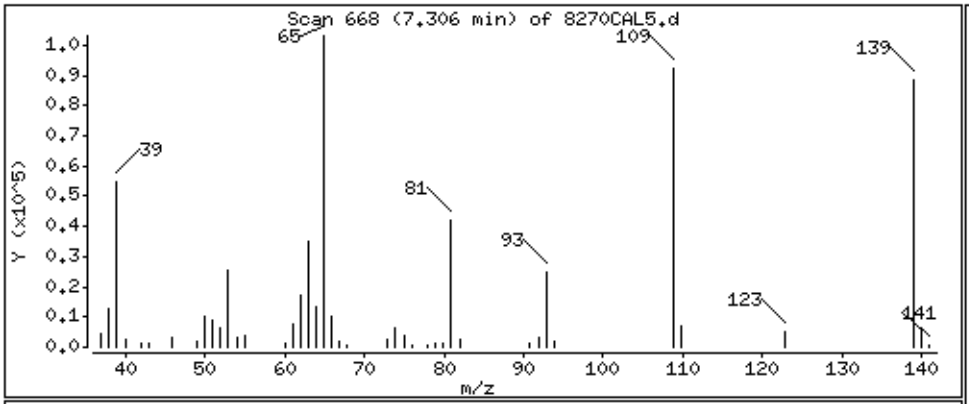
Operator: MJ

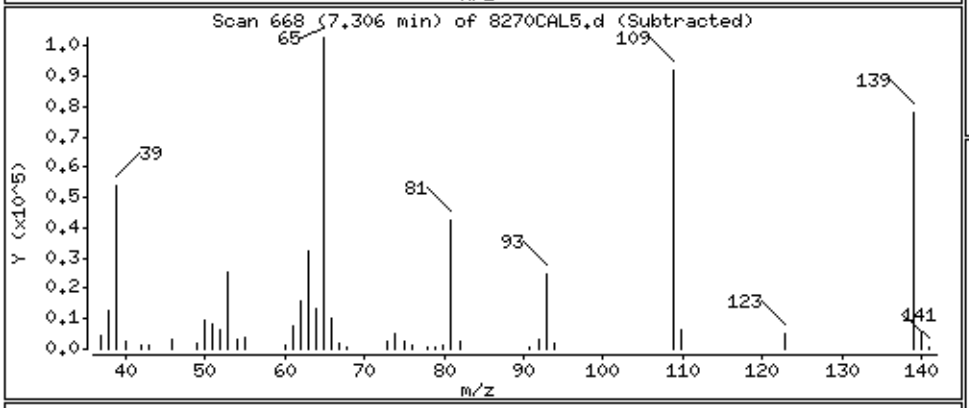
Column phase: HPMS-5

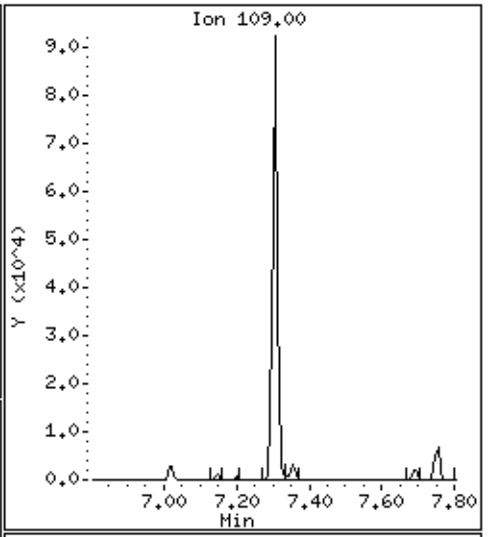
Column diameter: 0.25

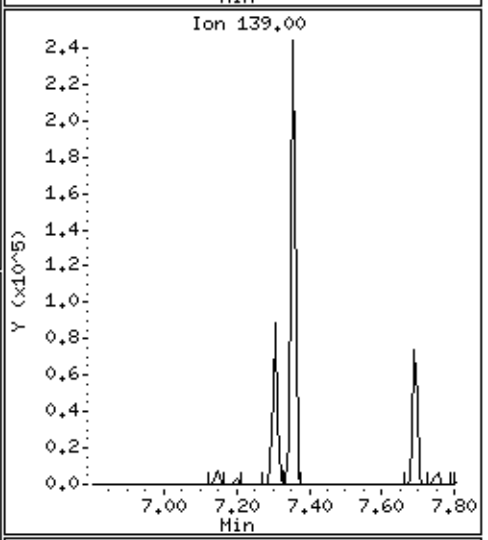
74 4-Nitrophenol

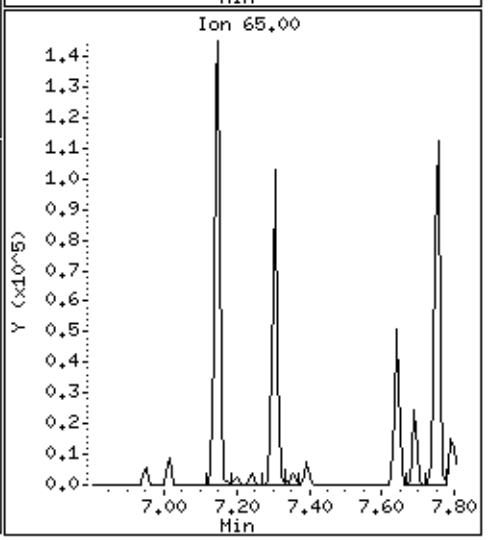
Concentration: 60.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

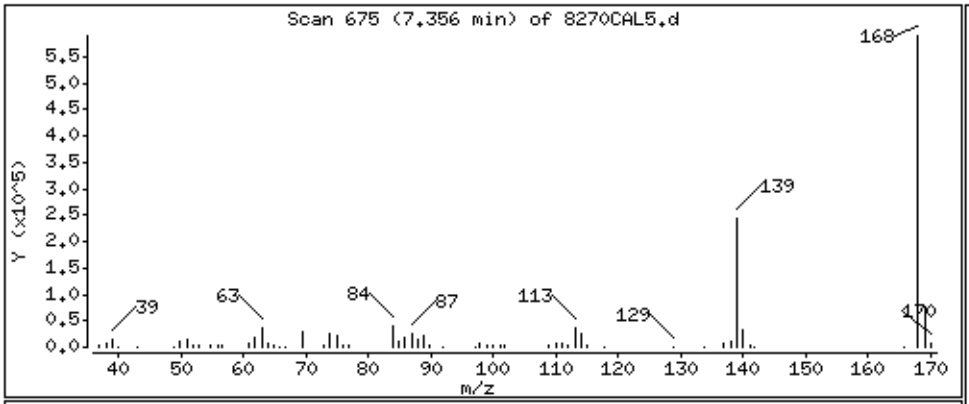
Operator: MJ

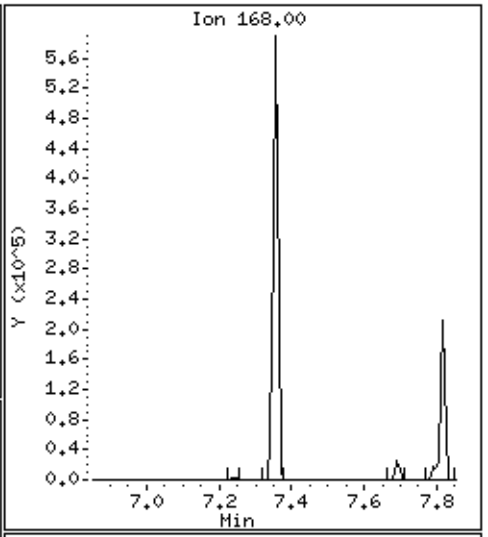
Column phase: HPMS-5

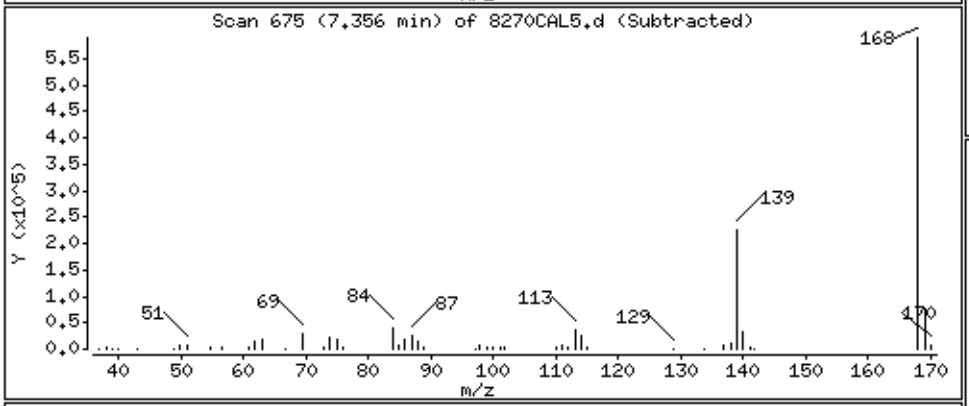
Column diameter: 0.25

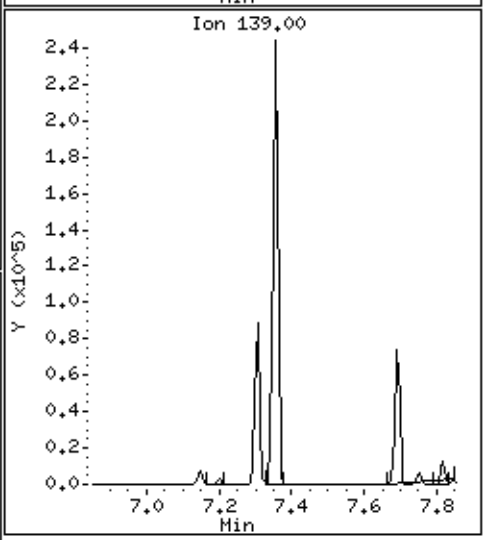
75 Dibenzofuran

Concentration: 59.8 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

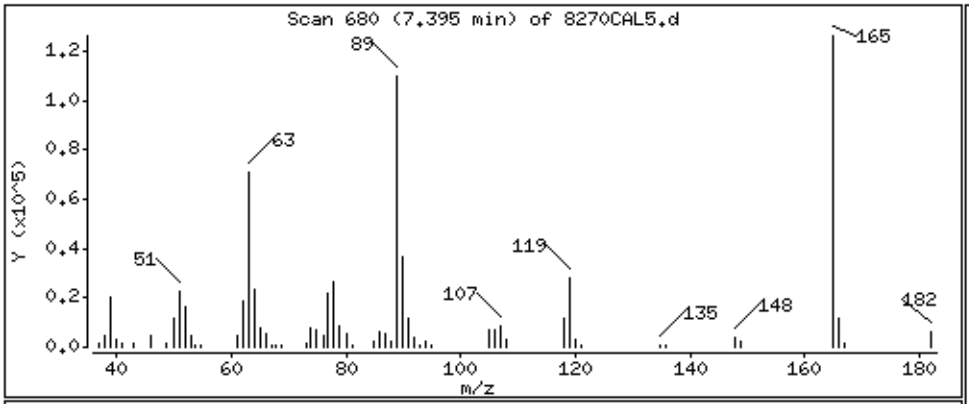
Operator: MJ

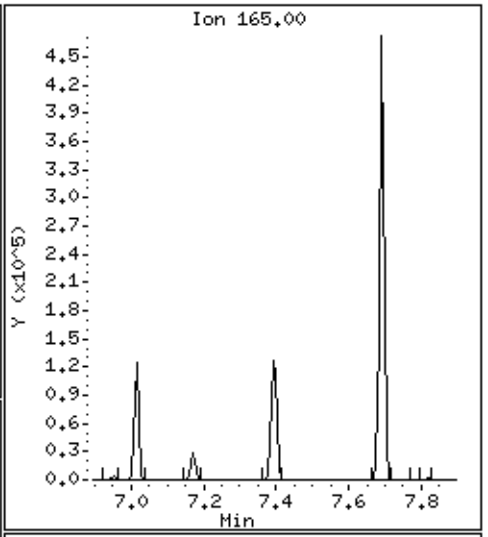
Column phase: HPMS-5

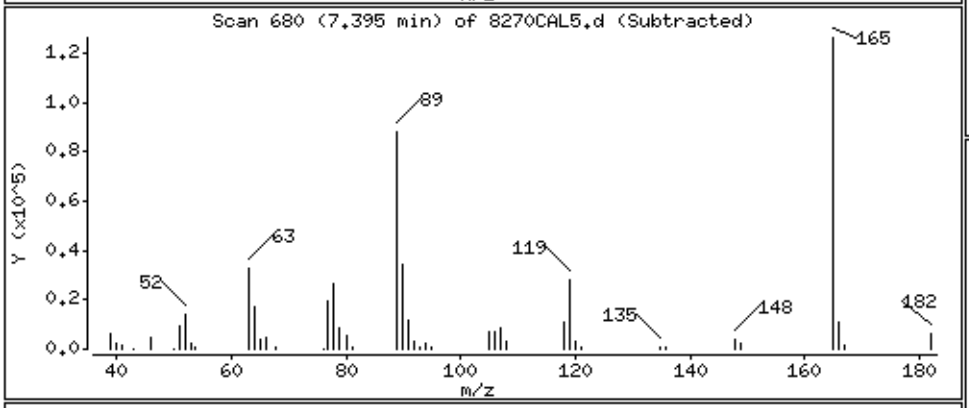
Column diameter: 0.25

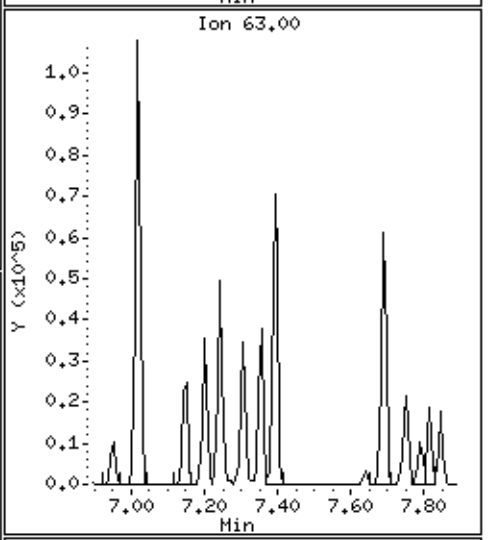
76 2,4-Dinitrotoluene

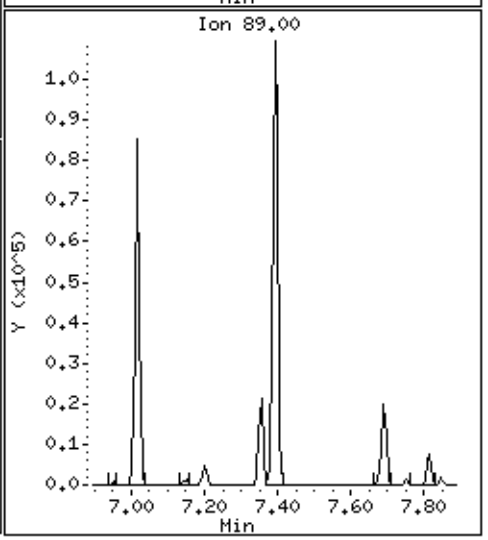
Concentration: 60.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

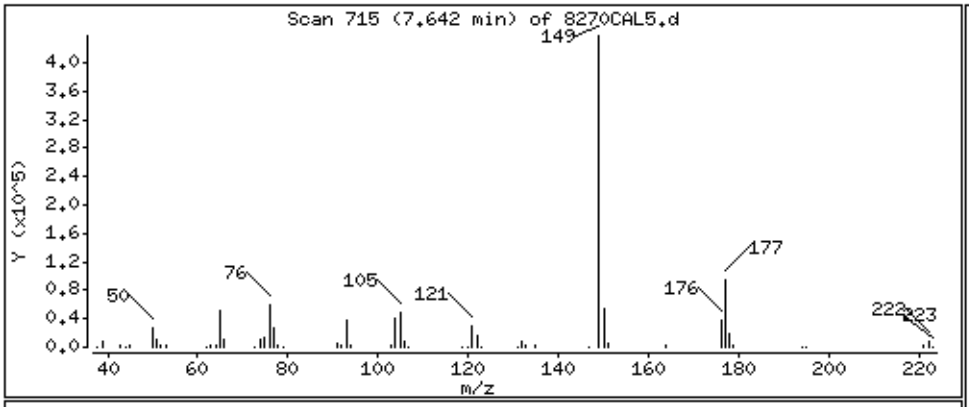
Operator: MJ

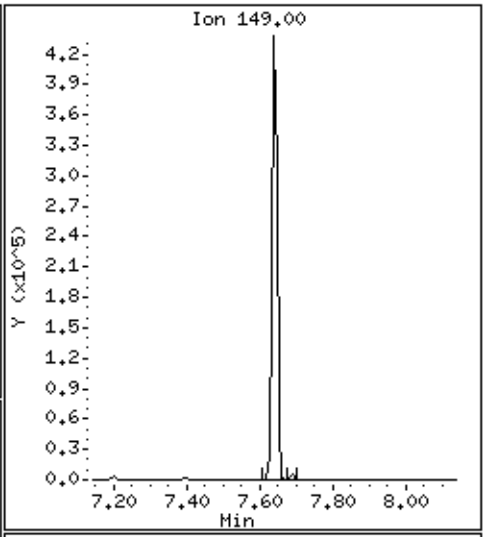
Column phase: HPMS-5

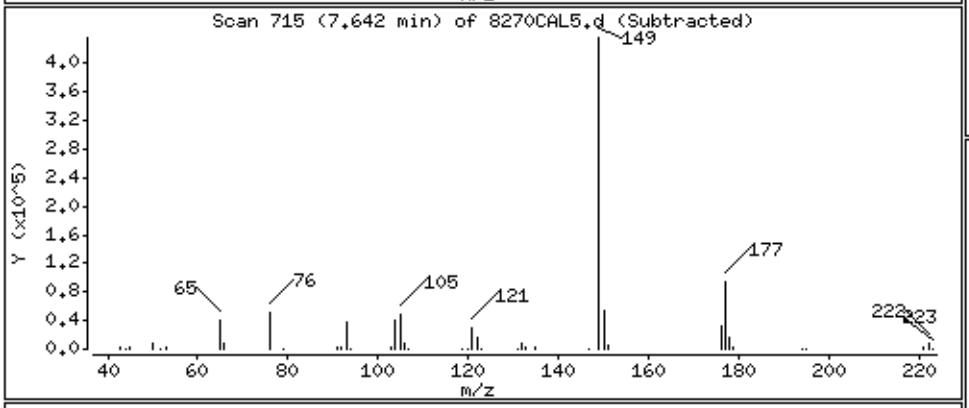
Column diameter: 0.25

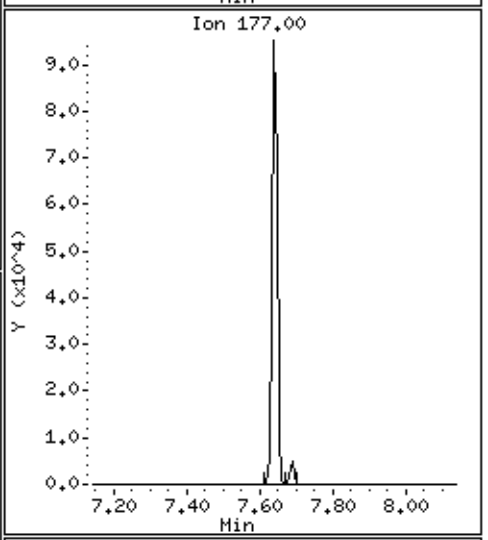
80 Diethylphthalate

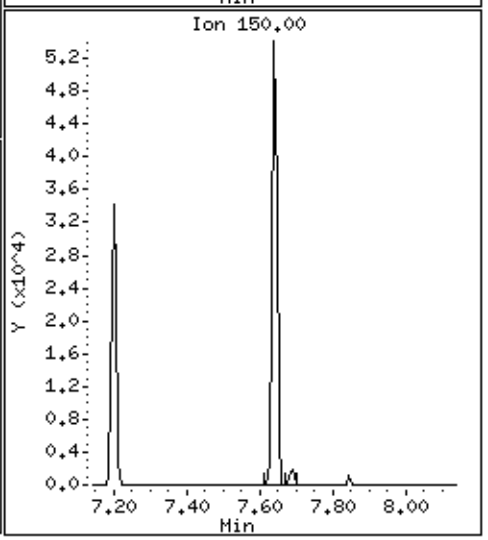
Concentration: 60.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

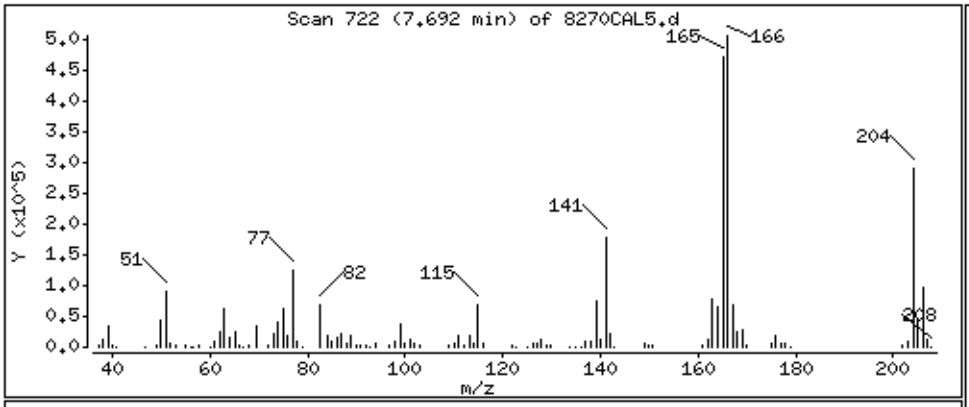
Operator: MJ

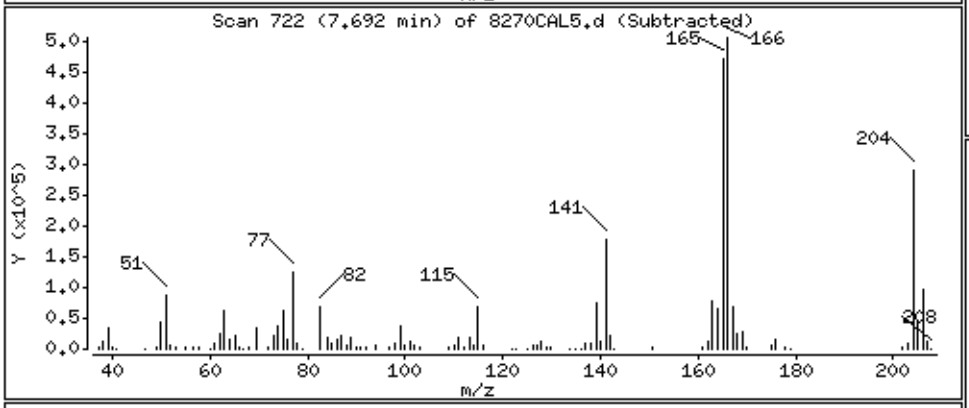
Column phase: HPMS-5

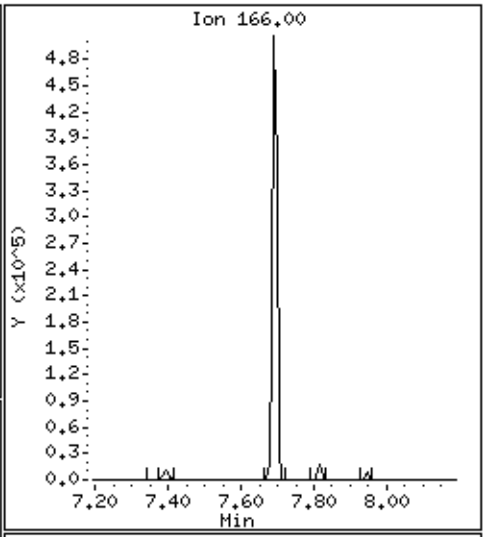
Column diameter: 0.25

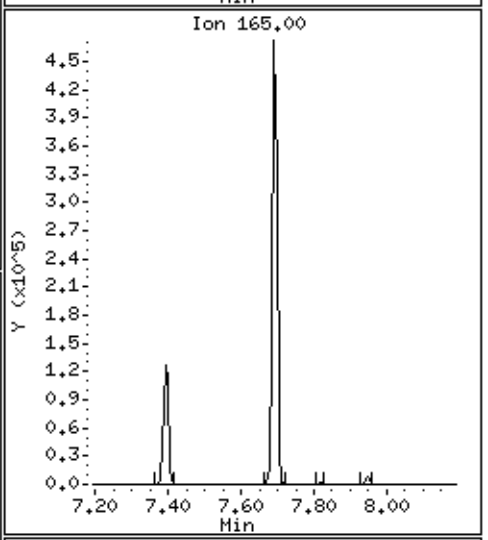
81 Fluorene

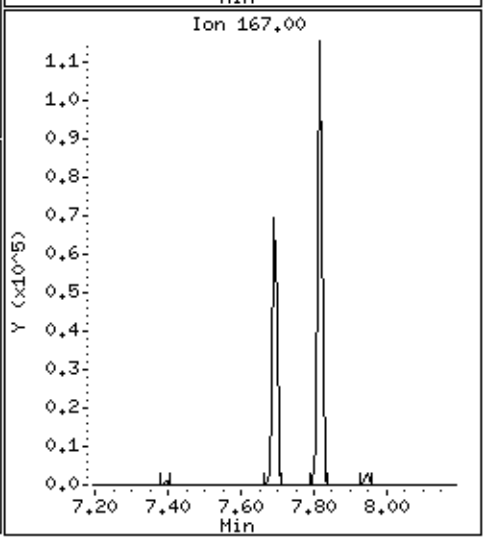
Concentration: 59.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

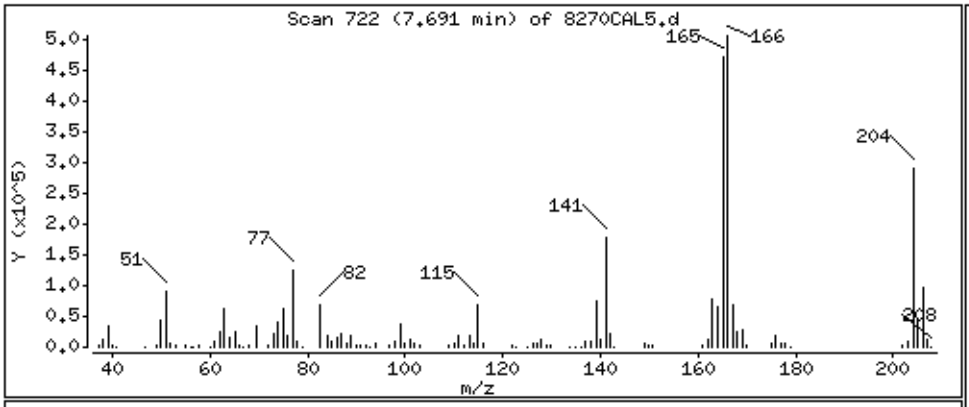
Operator: MJ

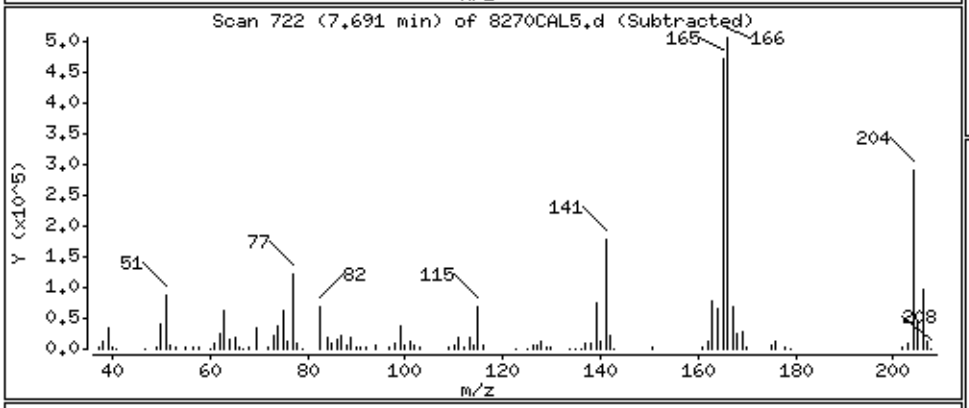
Column phase: HPMS-5

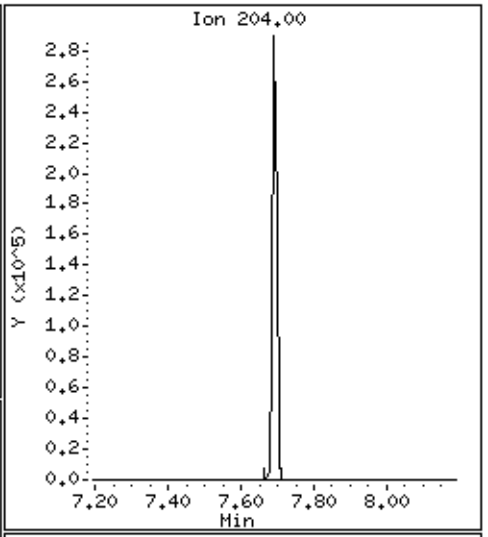
Column diameter: 0.25

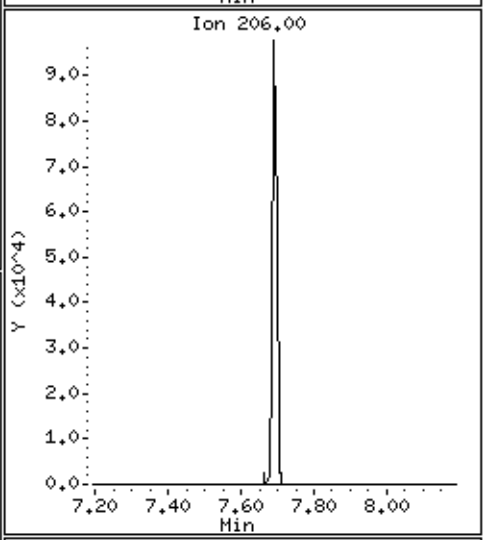
82 4-Chlorophenyl-phenylether

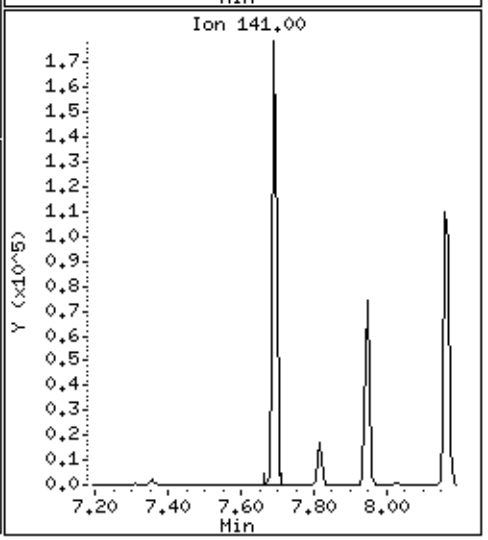
Concentration: 58.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

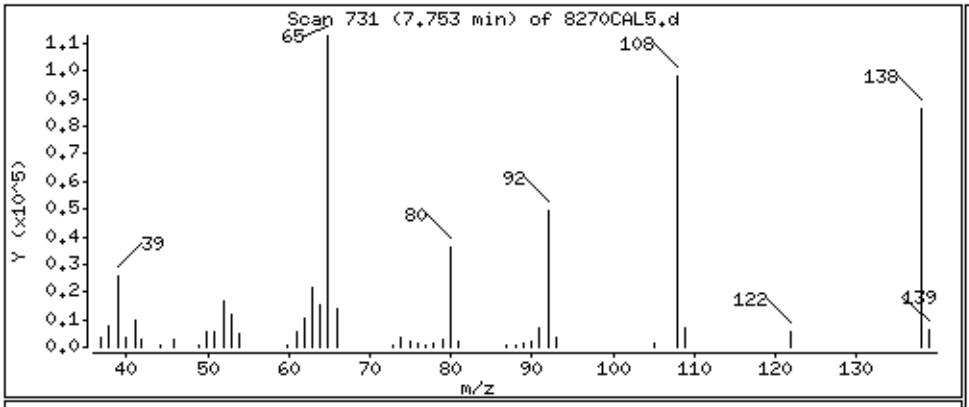
Operator: MJ

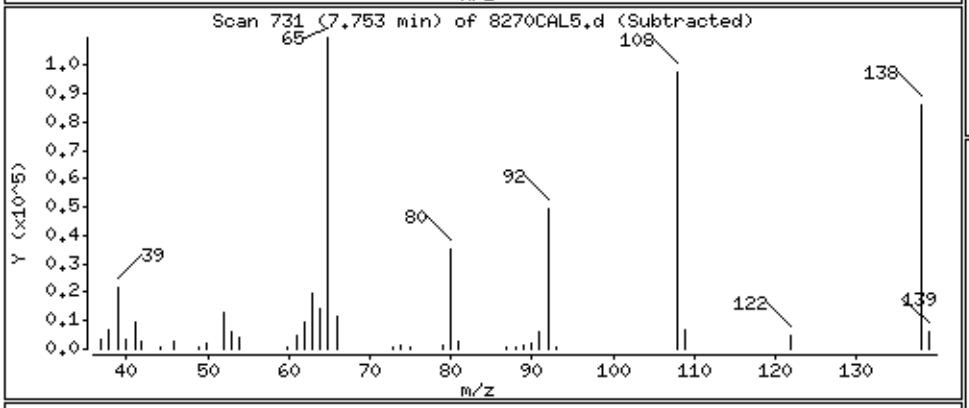
Column phase: HPMS-5

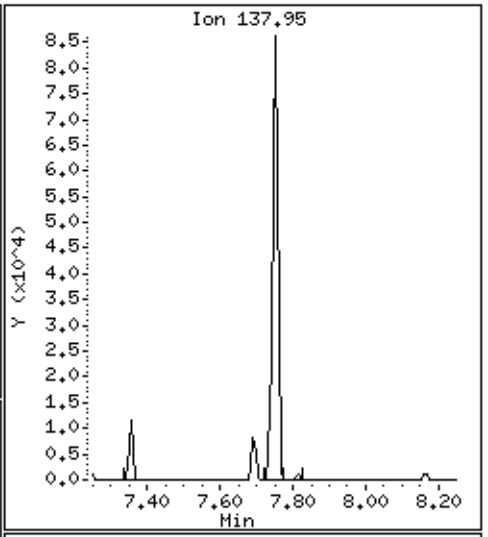
Column diameter: 0.25

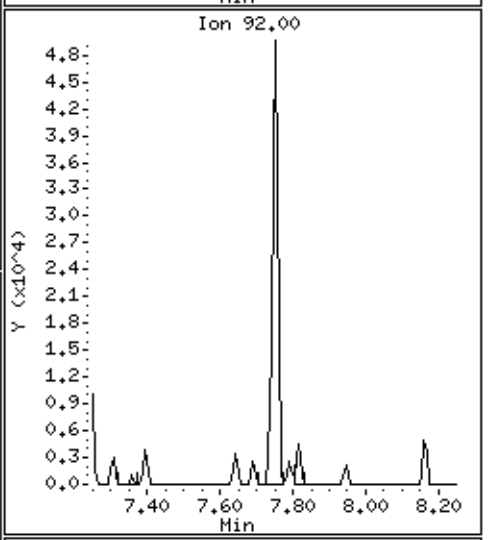
84 4-Nitroaniline

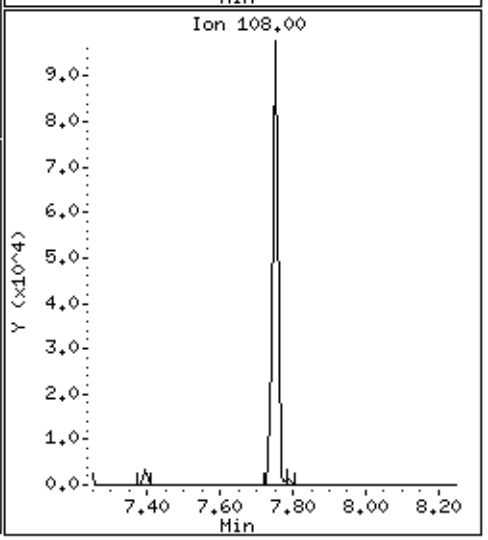
Concentration: 61.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

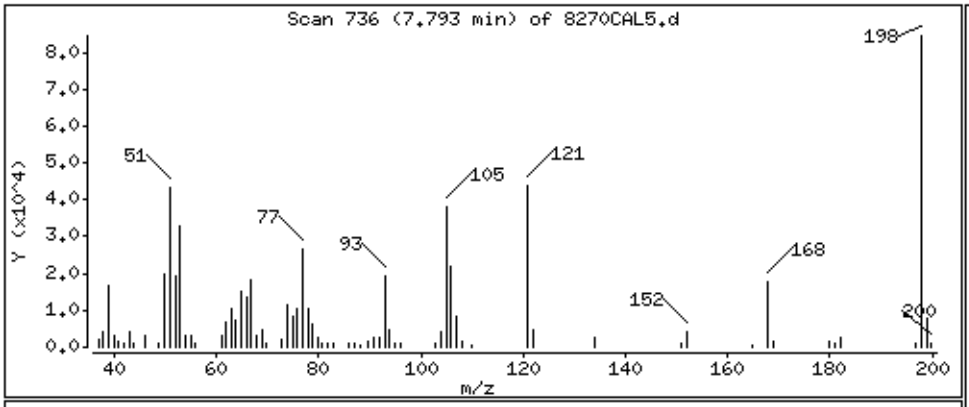
Operator: MJ

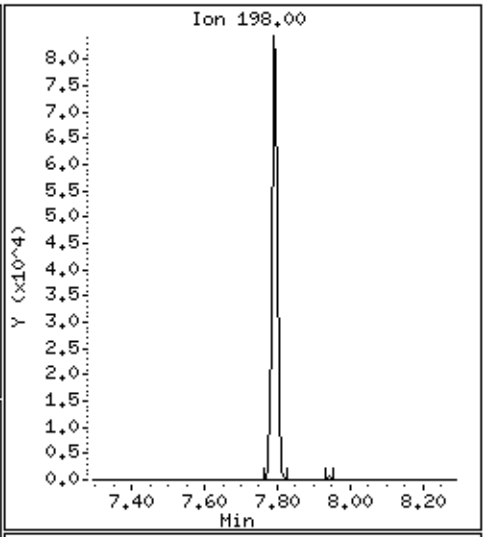
Column phase: HPMS-5

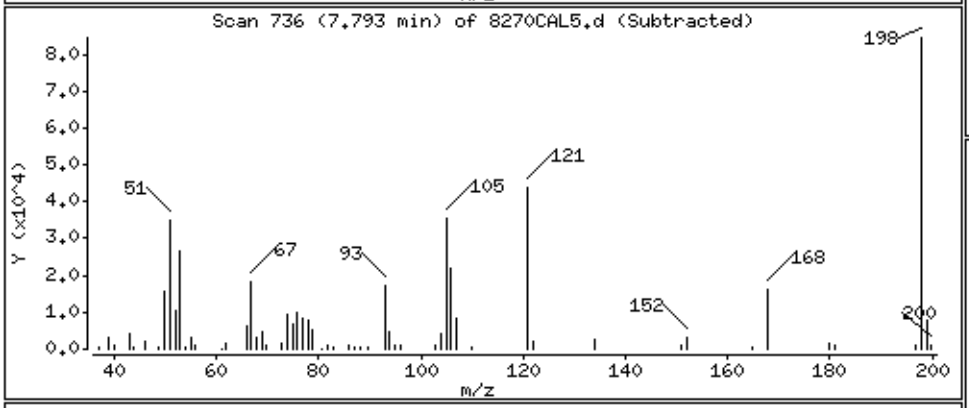
Column diameter: 0.25

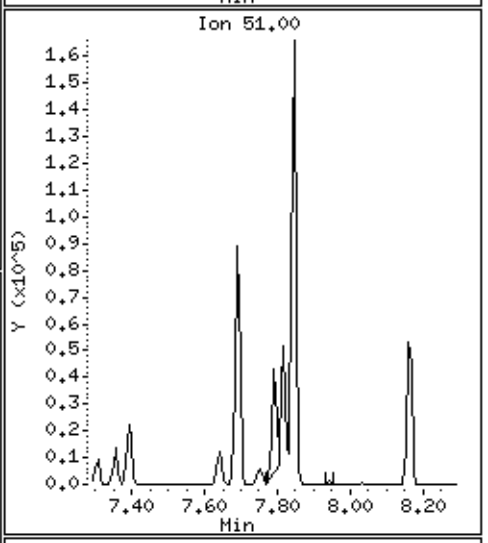
85 4,6-Dinitro-2-methylphenol

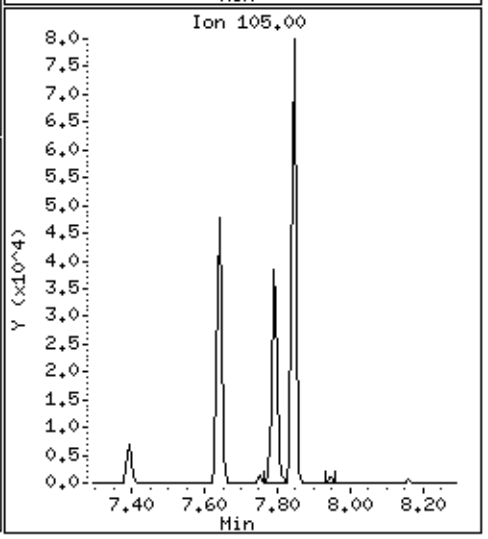
Concentration: 58.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

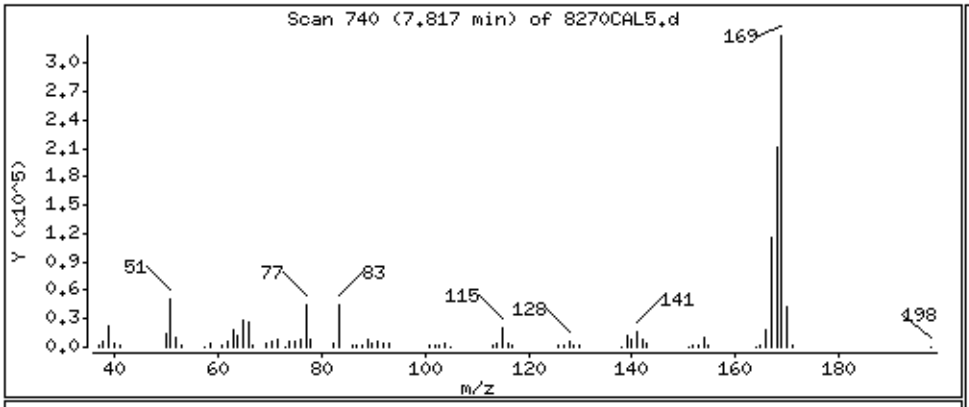
Operator: MJ

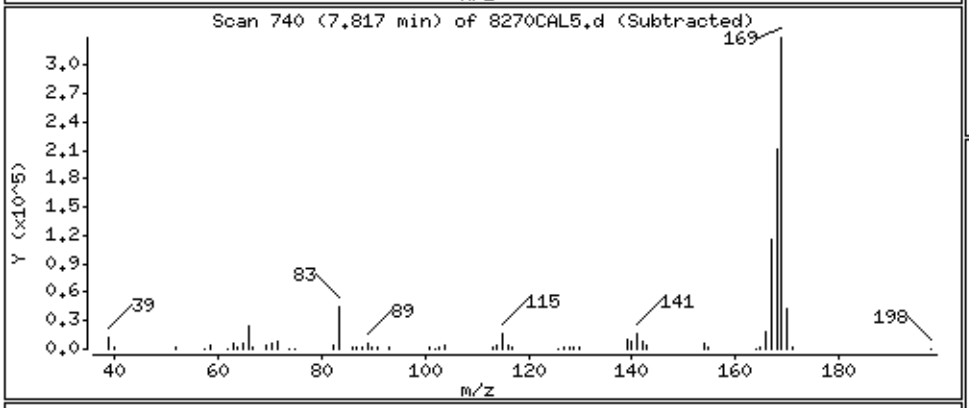
Column phase: HPMS-5

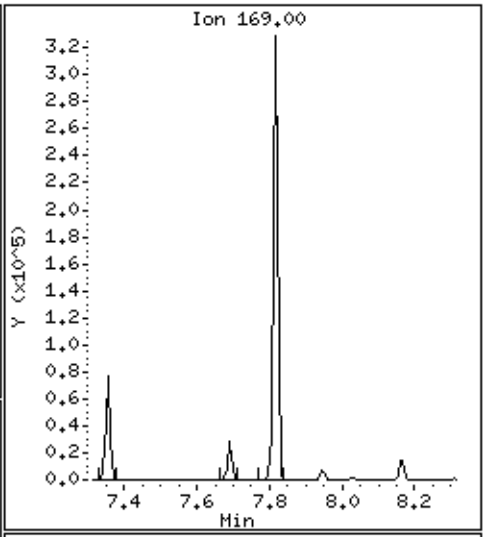
Column diameter: 0.25

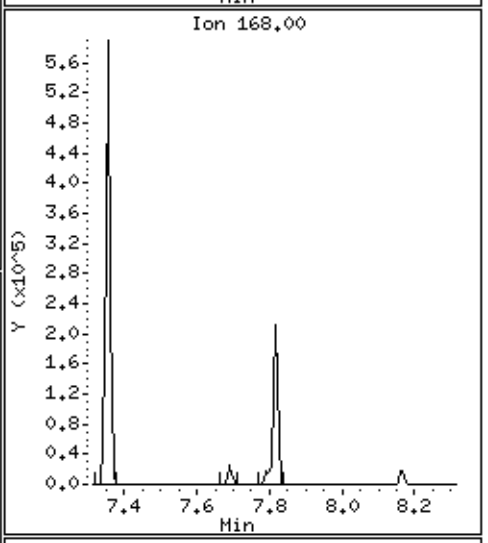
86 N-Nitrosodiphenylamine

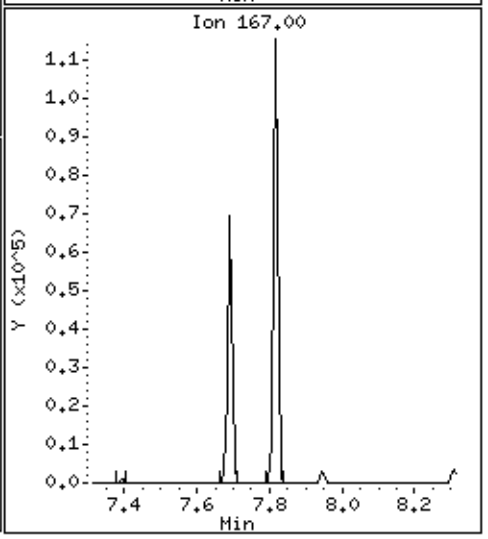
Concentration: 59.0 ug/kg











Date : 14-NOV-2012 23:22

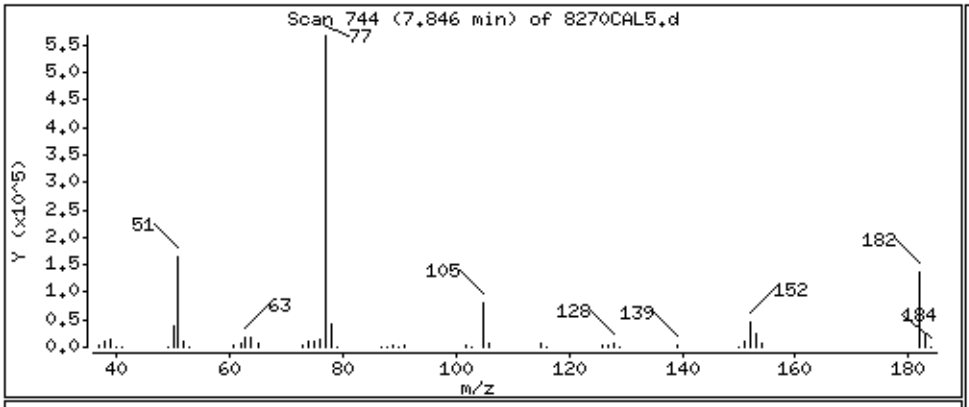
Client ID: 8270CAL5 Instrument: smsd04.i

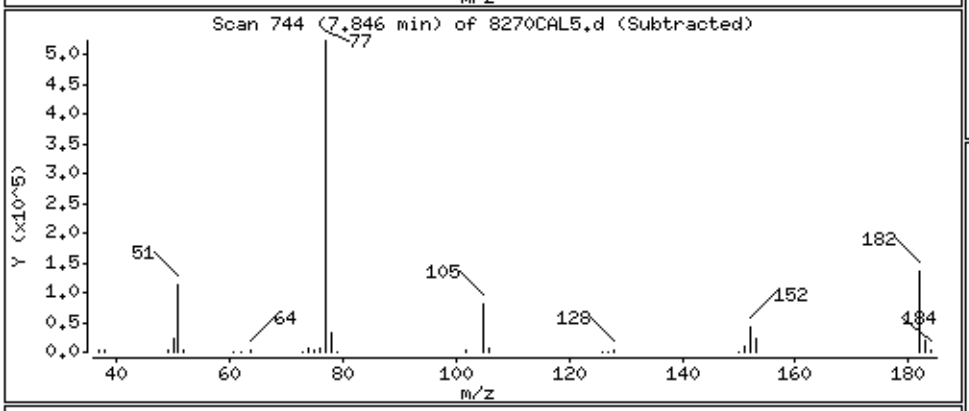
Sample Info: 47765

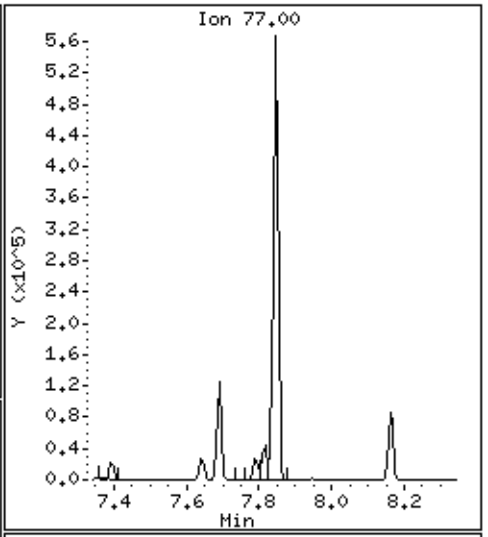
Operator: MJ

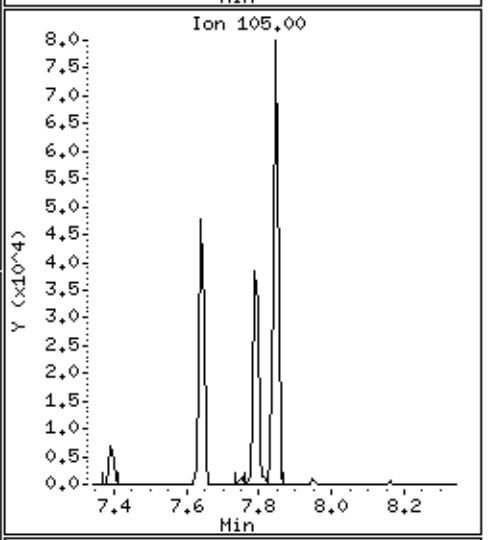
Column phase: HPMS-5 Column diameter: 0.25

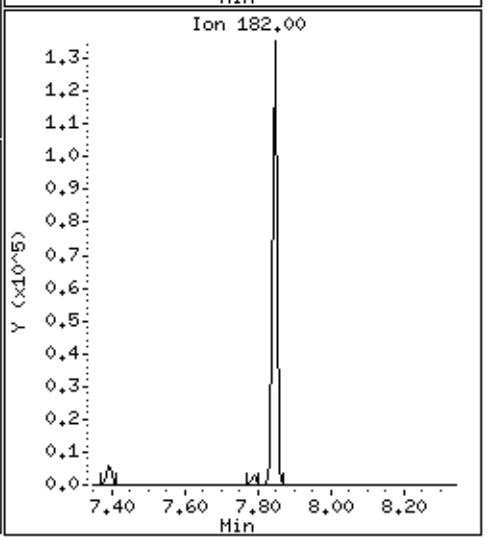
87 1,2-Diphenylhydrazine Concentration: 58.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

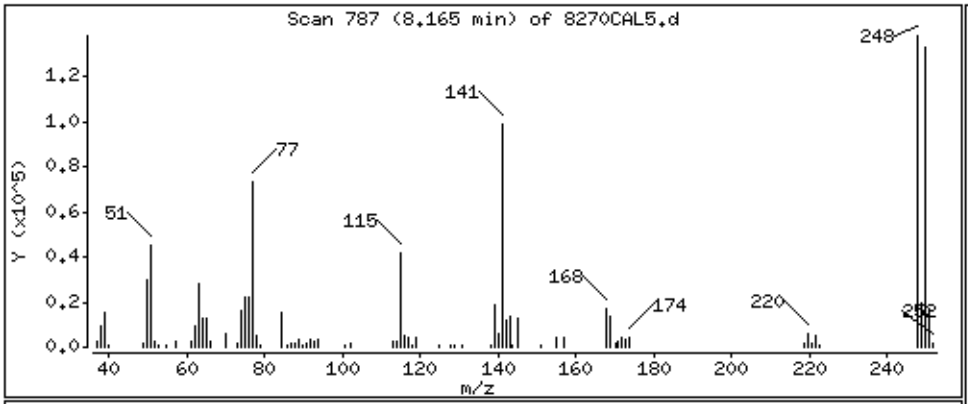
Operator: MJ

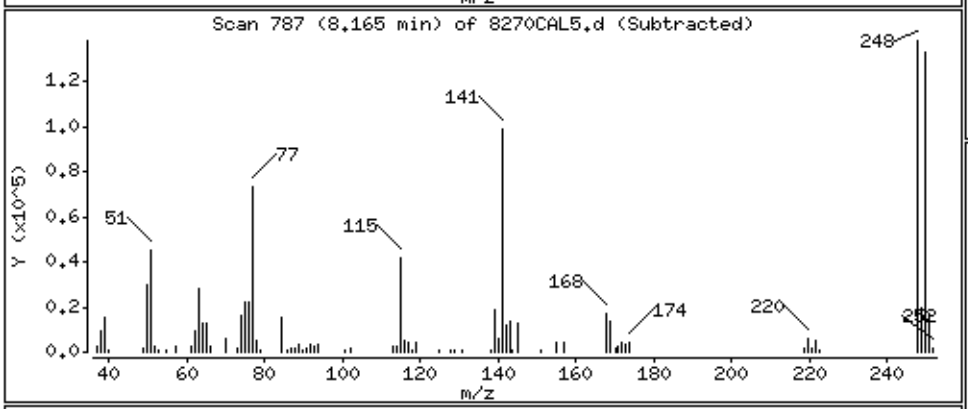
Column phase: HPMS-5

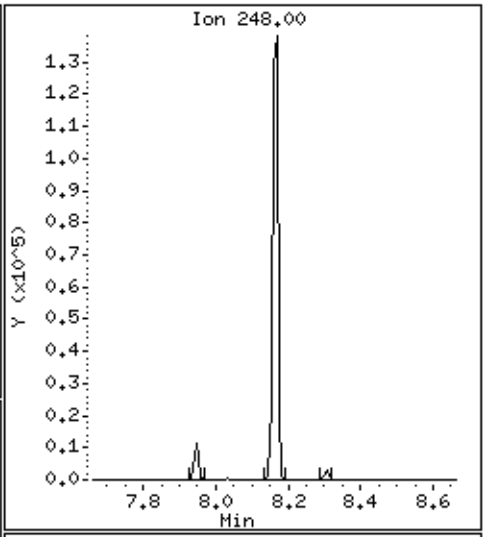
Column diameter: 0.25

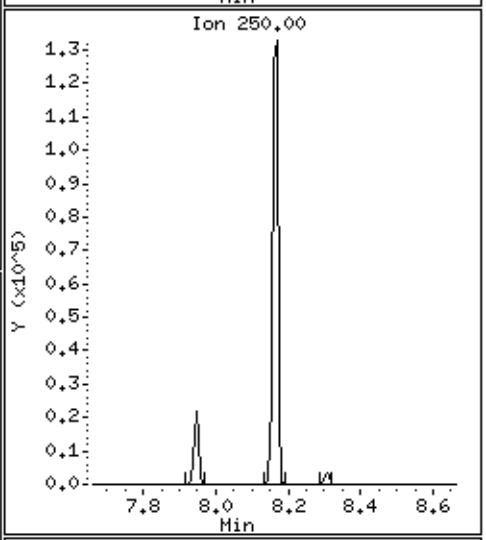
93 4-Bromophenylphenylether

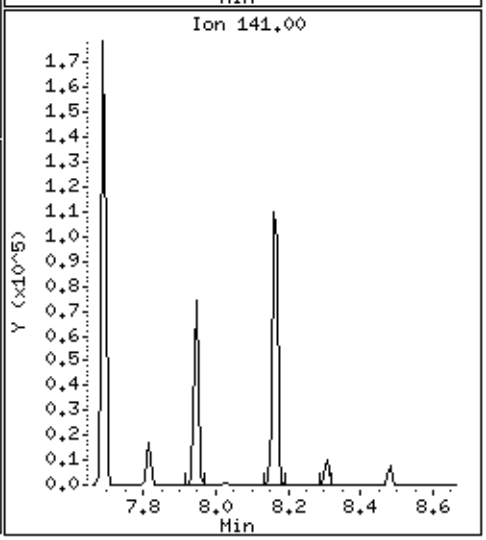
Concentration: 58.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

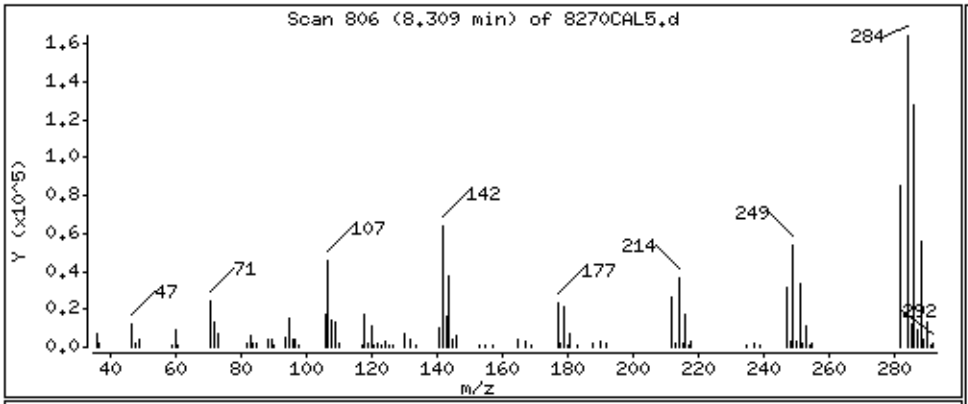
Operator: MJ

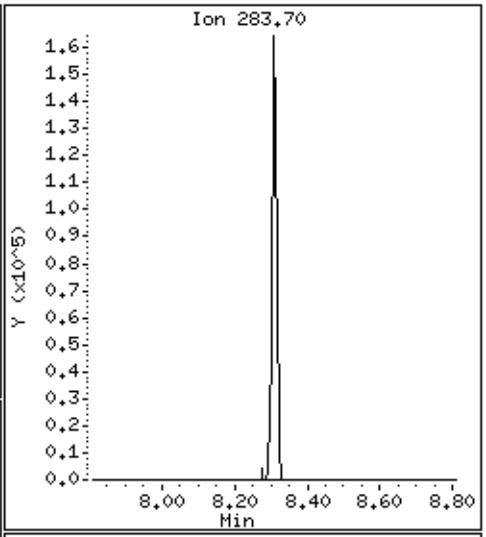
Column phase: HPMS-5

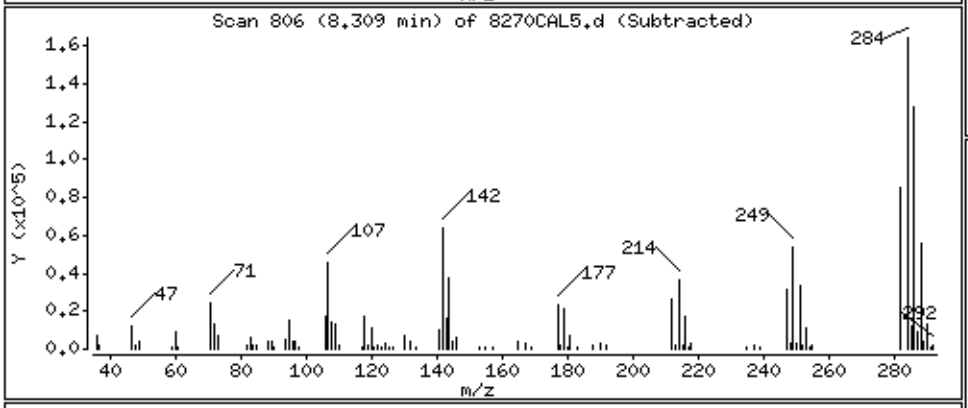
Column diameter: 0.25

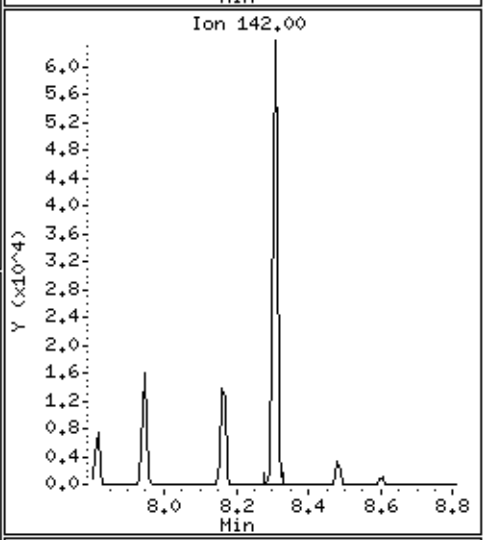
94 Hexachlorobenzene

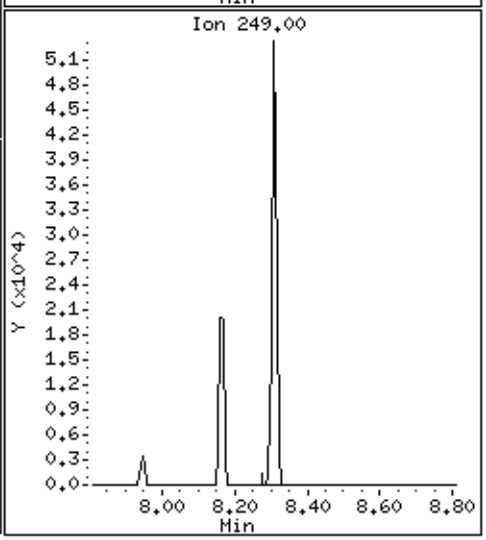
Concentration: 58.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

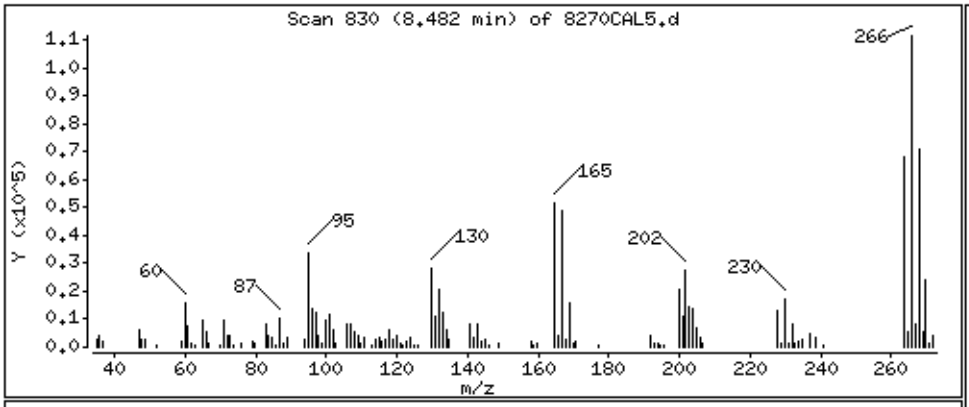
Operator: MJ

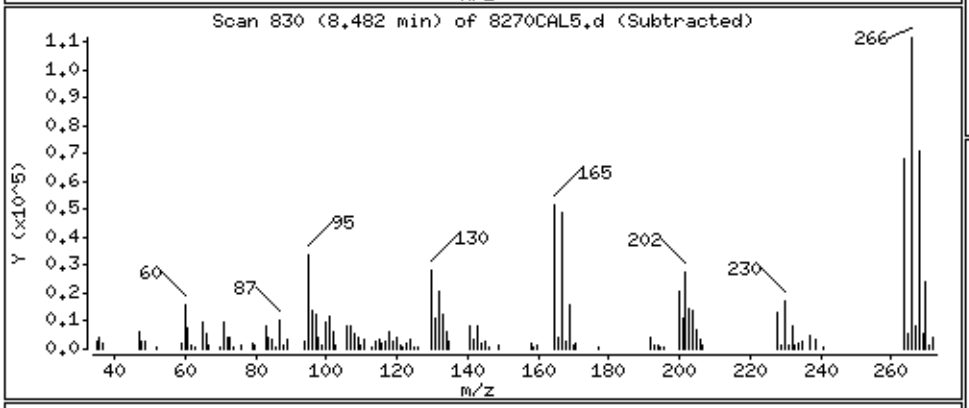
Column phase: HPMS-5

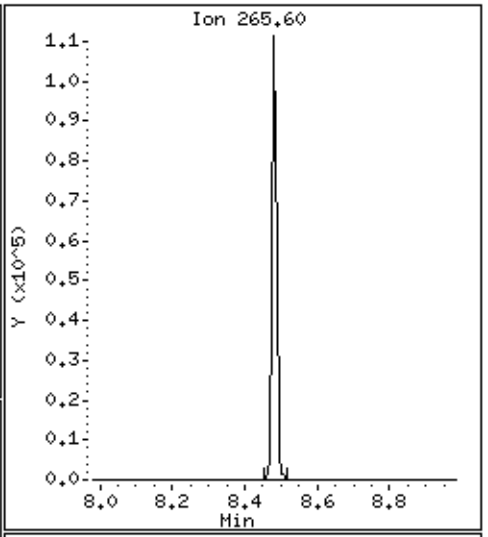
Column diameter: 0.25

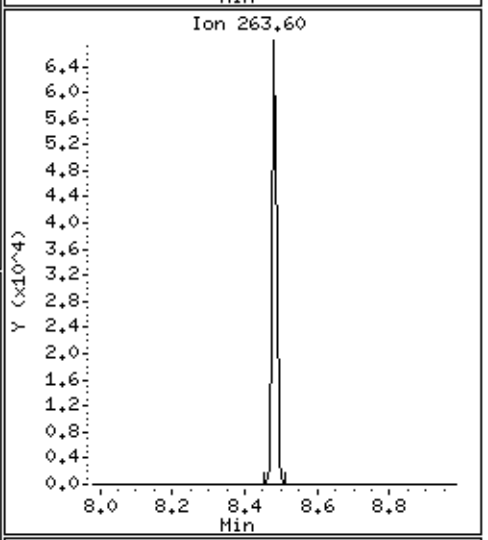
96 Pentachlorophenol

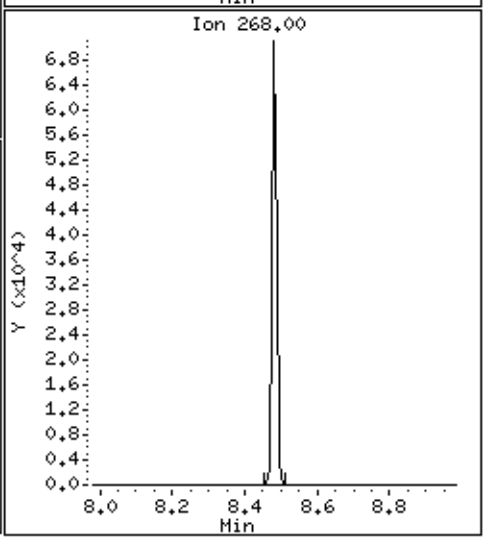
Concentration: 61.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

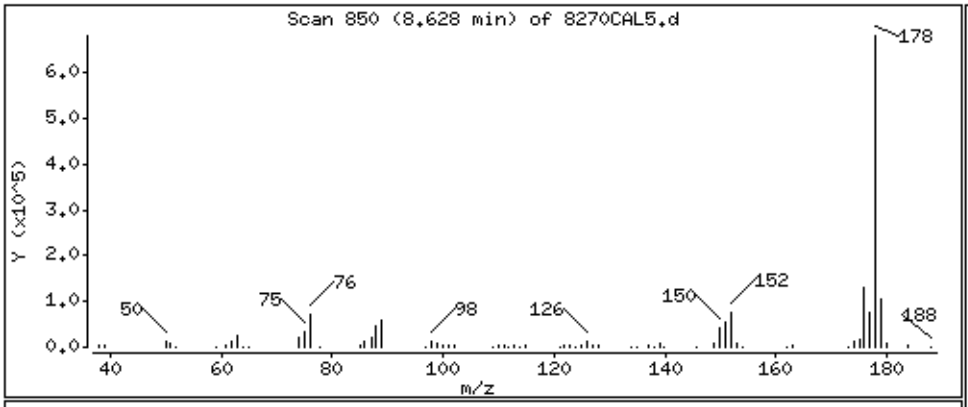
Operator: MJ

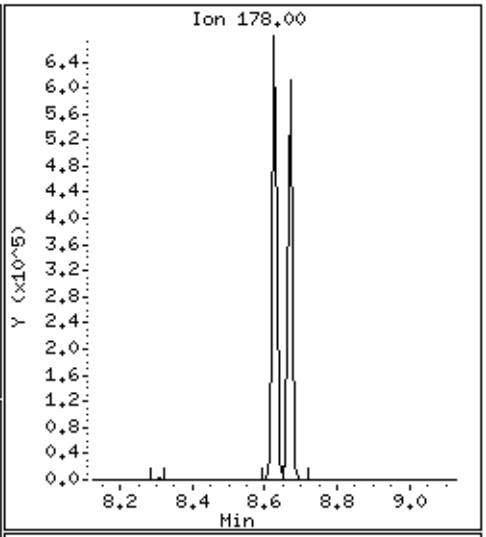
Column phase: HPMS-5

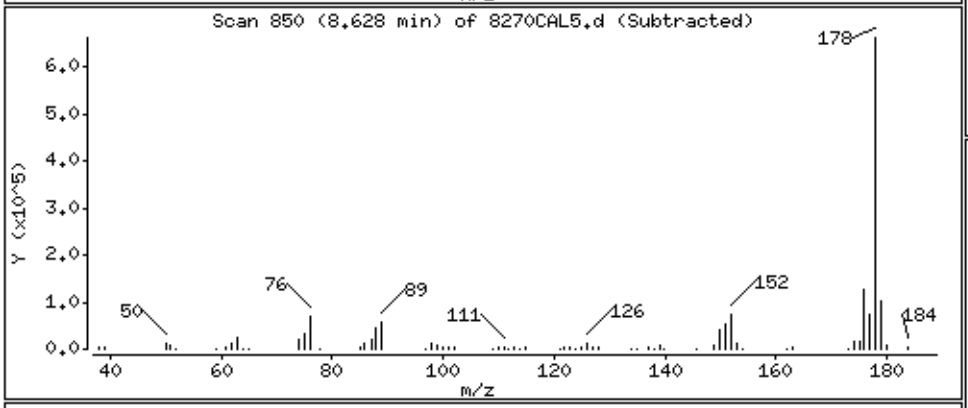
Column diameter: 0.25

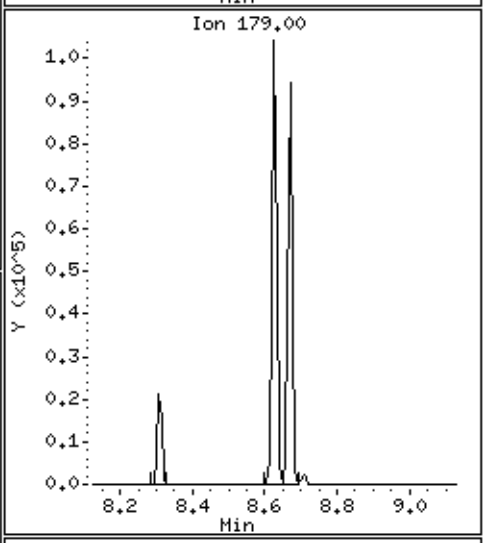
101 Phenanthrene

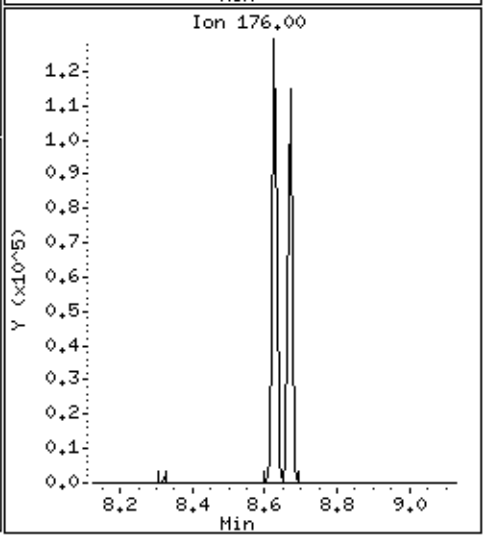
Concentration: 58.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

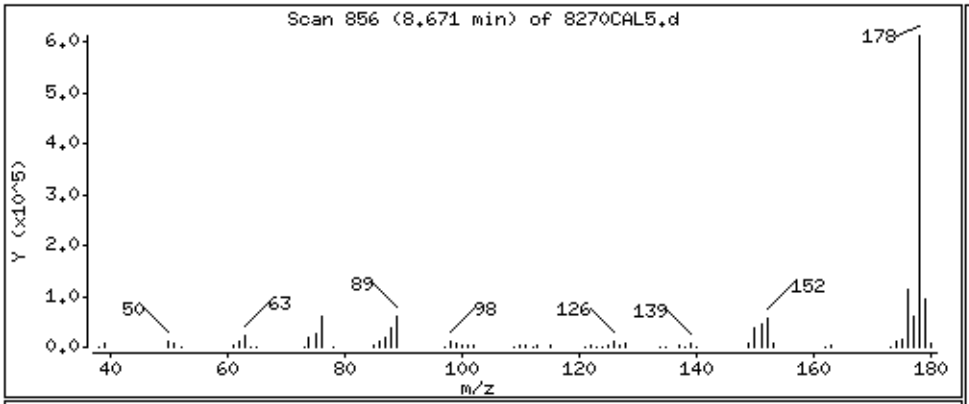
Operator: MJ

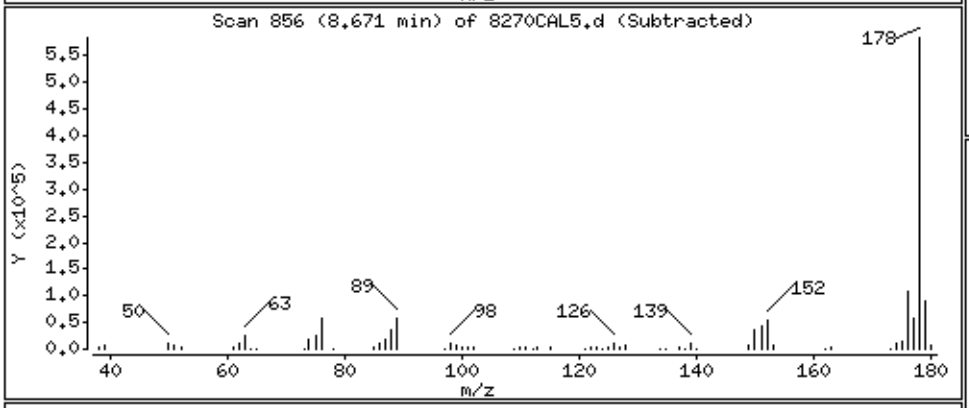
Column phase: HPMS-5

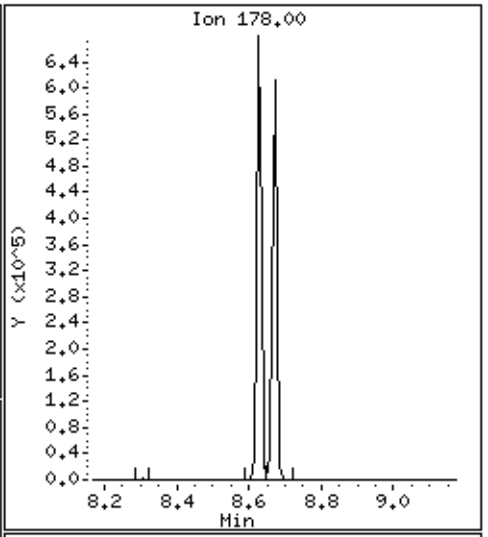
Column diameter: 0.25

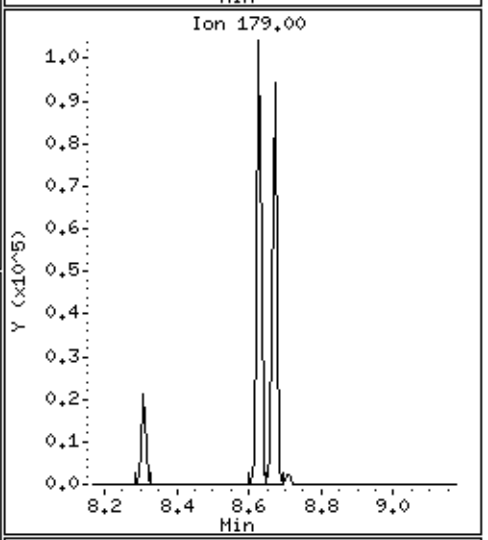
103 Anthracene

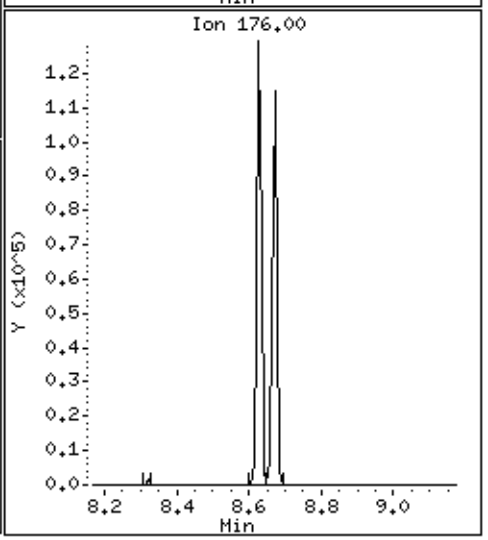
Concentration: 58.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

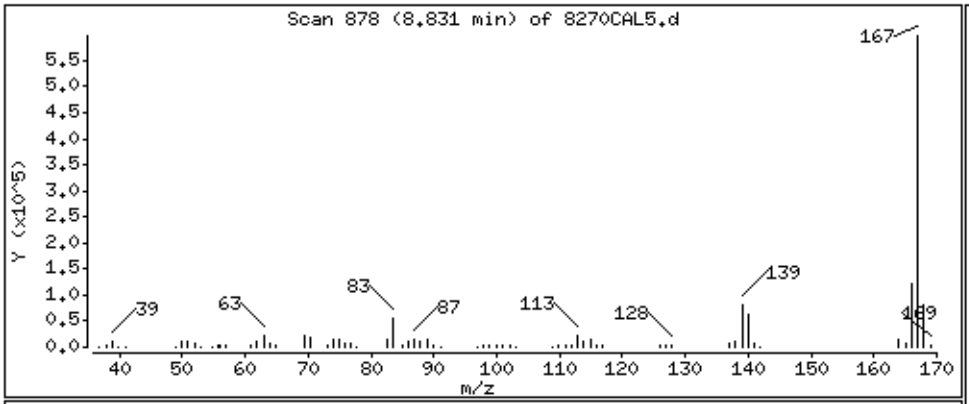
Operator: MJ

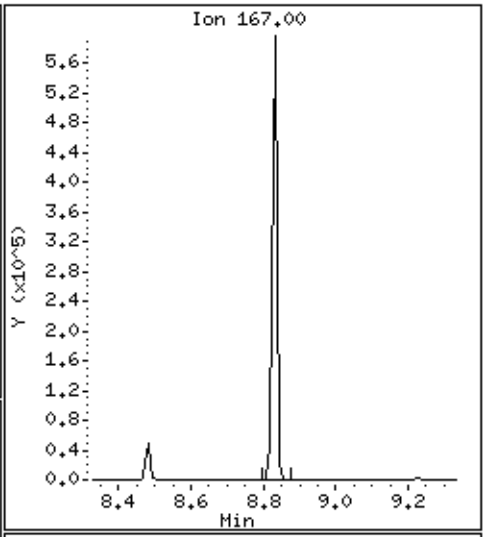
Column phase: HPMS-5

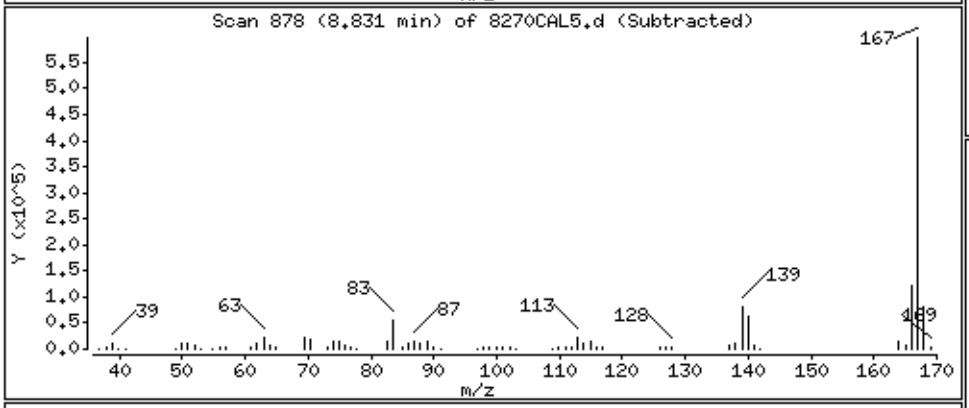
Column diameter: 0.25

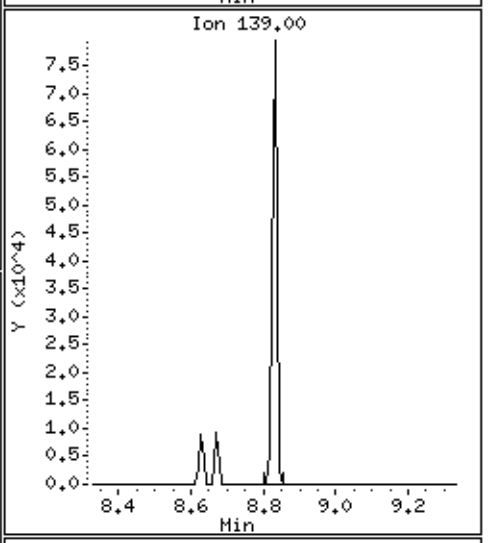
104 Carbazole

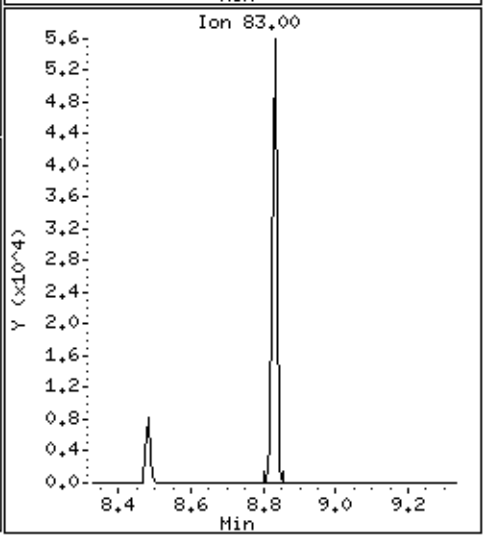
Concentration: 60.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

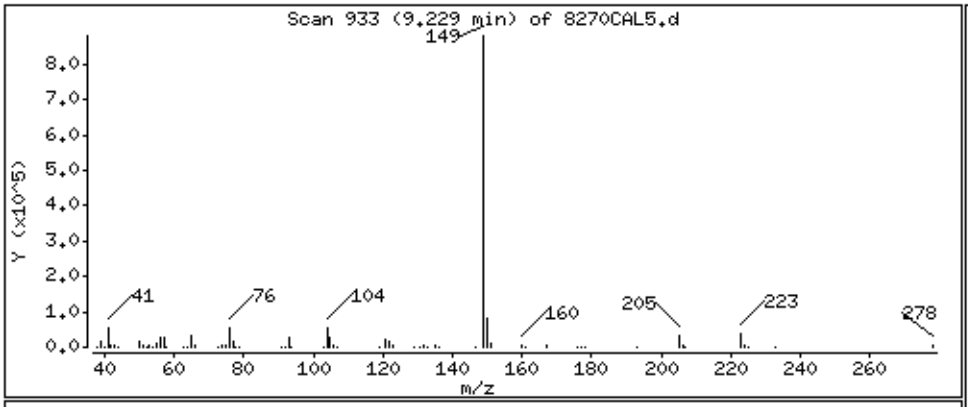
Operator: MJ

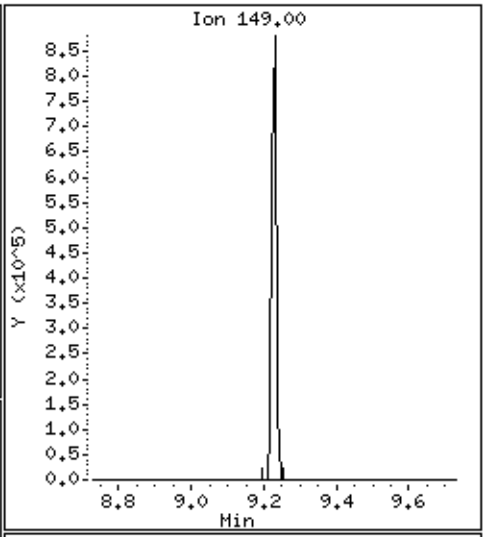
Column phase: HPMS-5

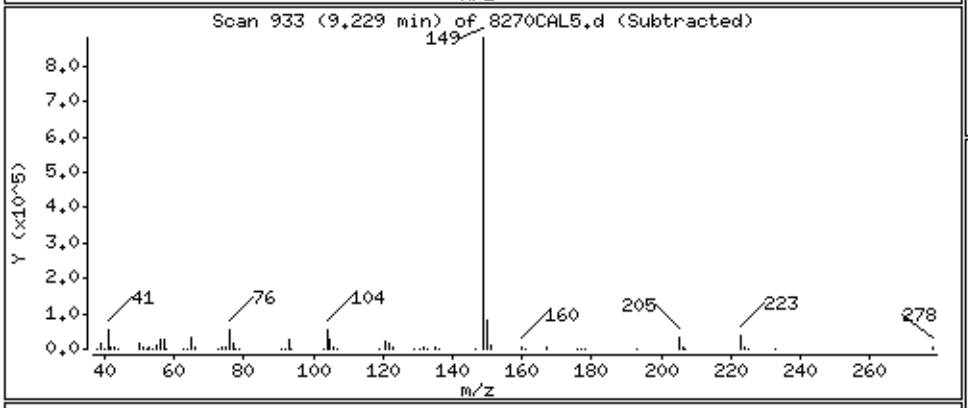
Column diameter: 0.25

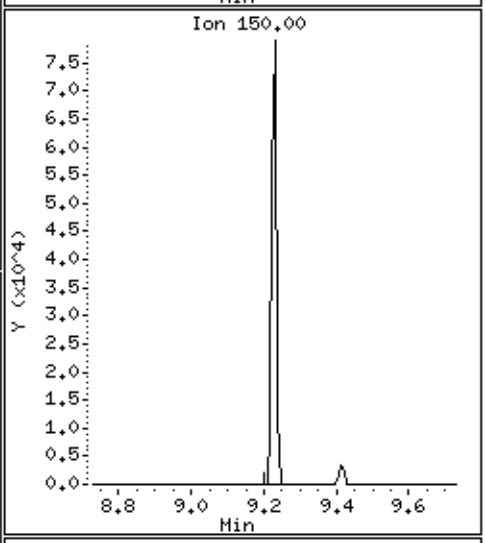
105 Di-n-butylphthalate

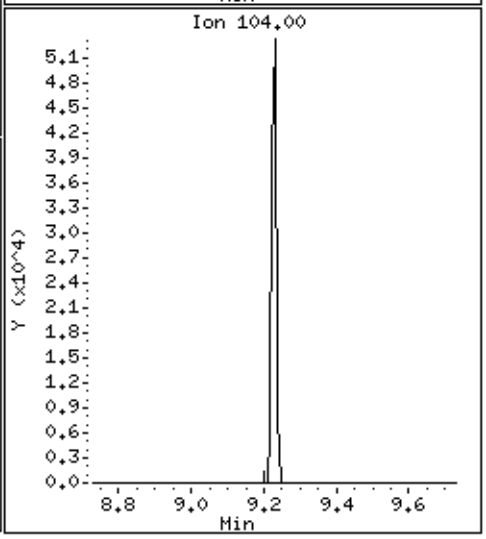
Concentration: 60.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

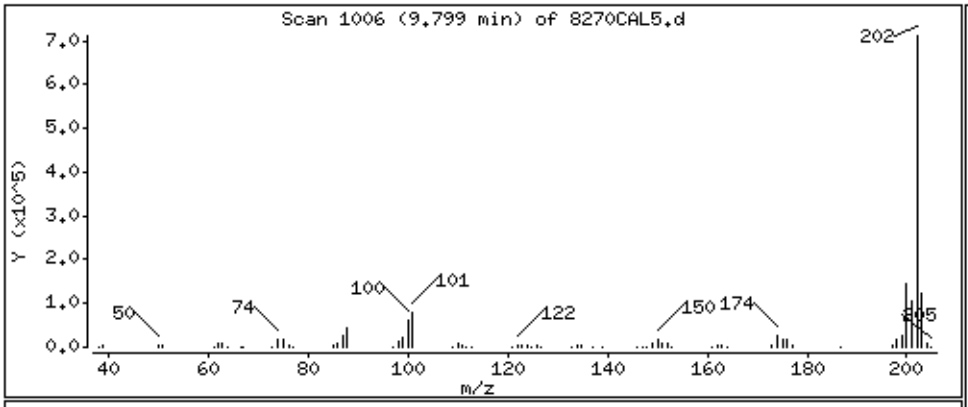
Operator: MJ

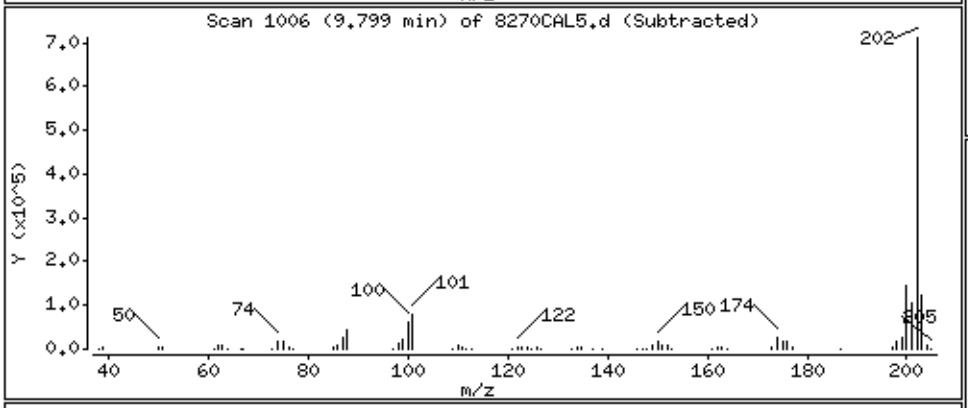
Column phase: HPMS-5

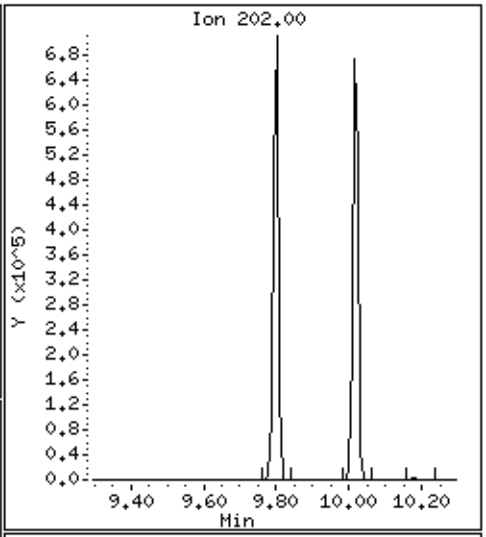
Column diameter: 0.25

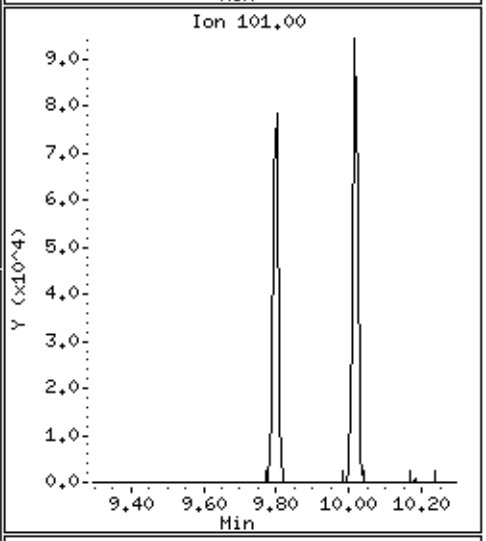
109 Fluoranthene

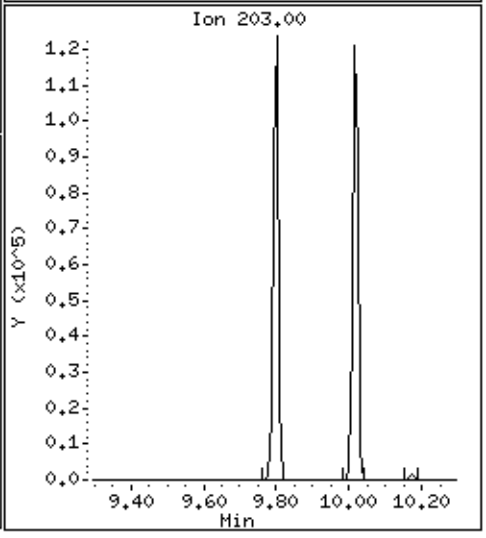
Concentration: 61.1 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

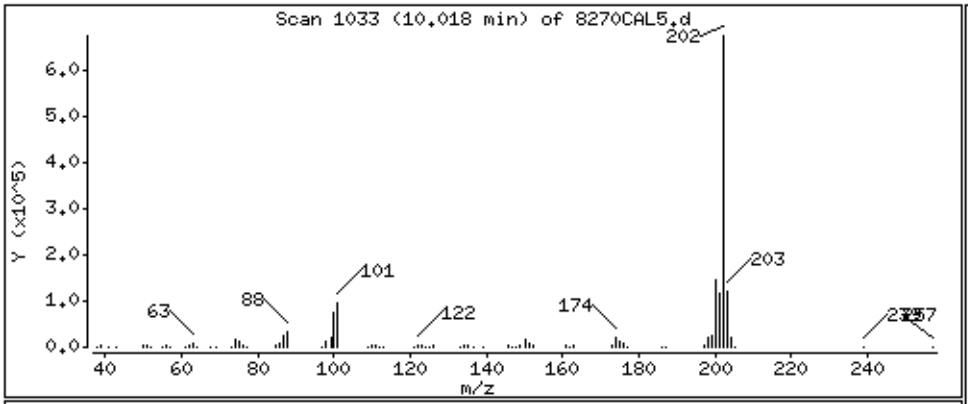
Operator: MJ

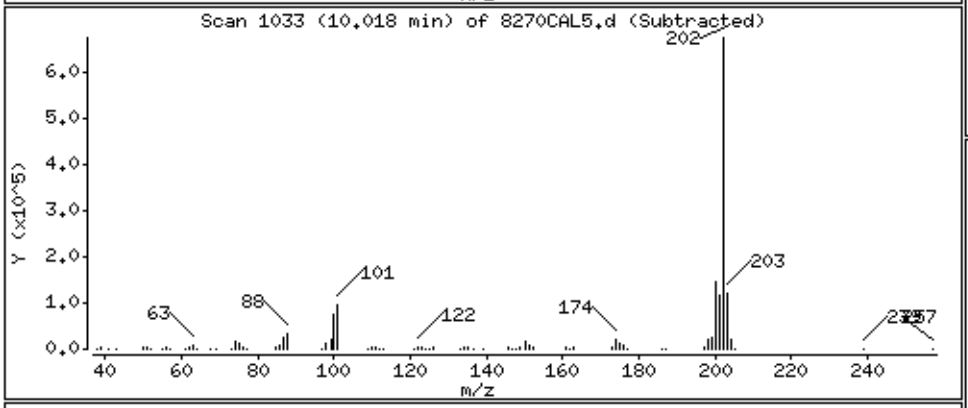
Column phase: HPMS-5

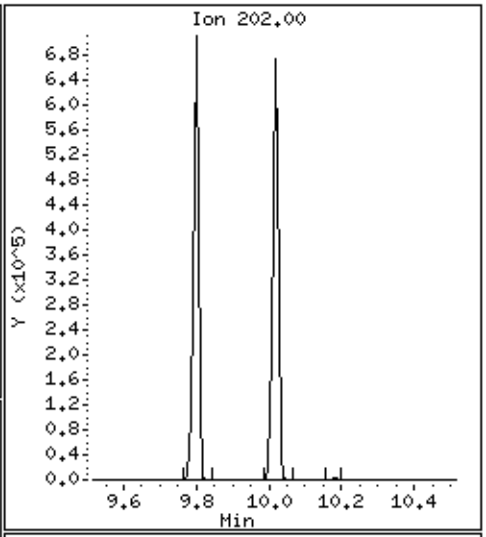
Column diameter: 0.25

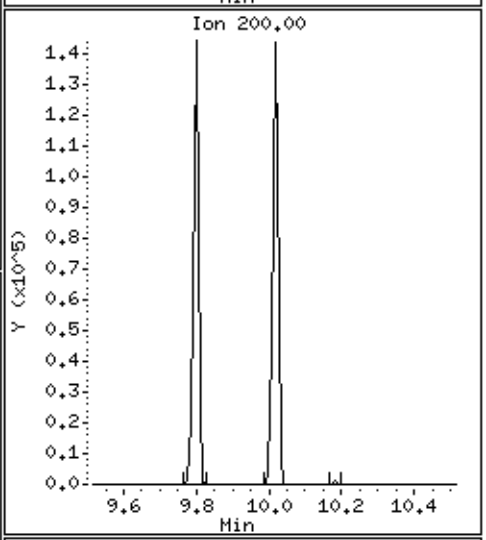
111 Pyrene

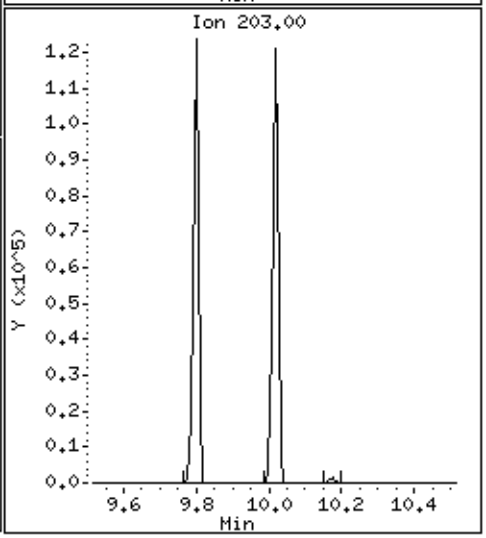
Concentration: 59.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

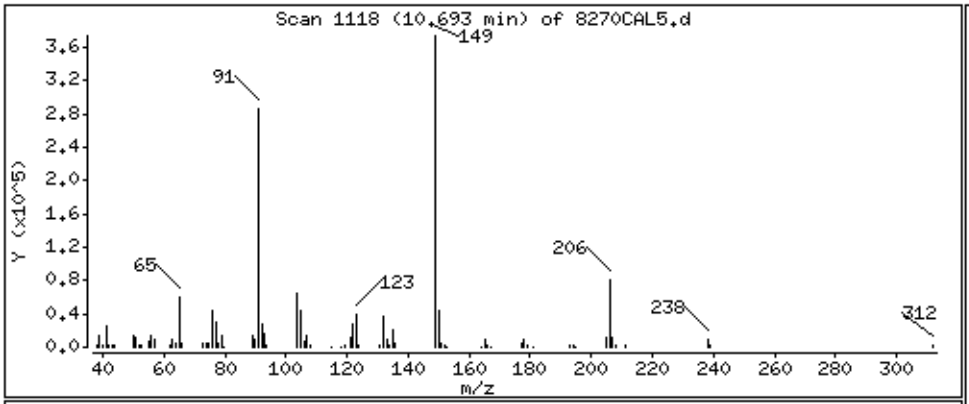
Operator: MJ

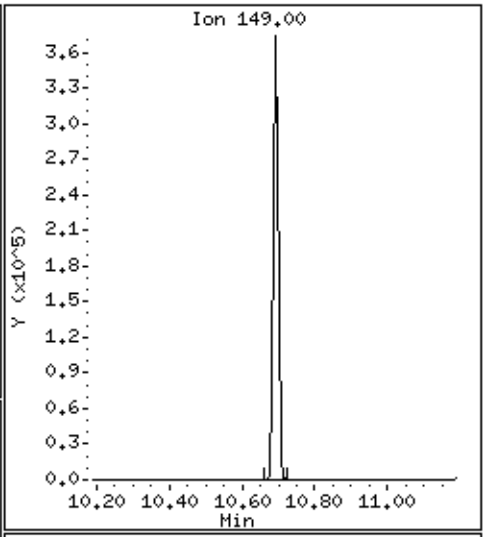
Column phase: HPMS-5

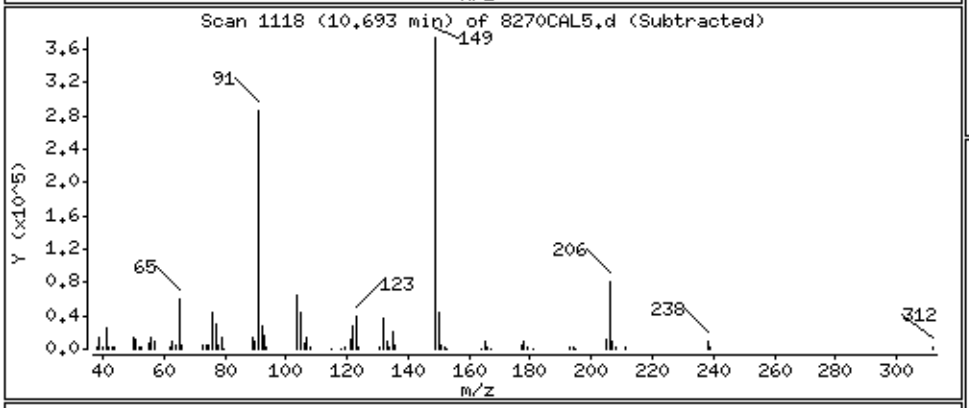
Column diameter: 0.25

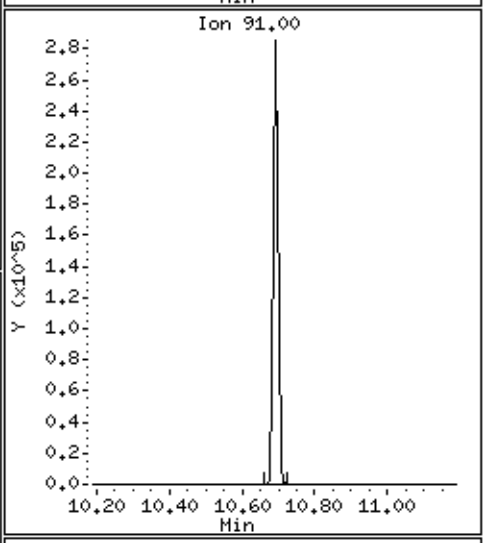
118 Butylbenzylphthalate

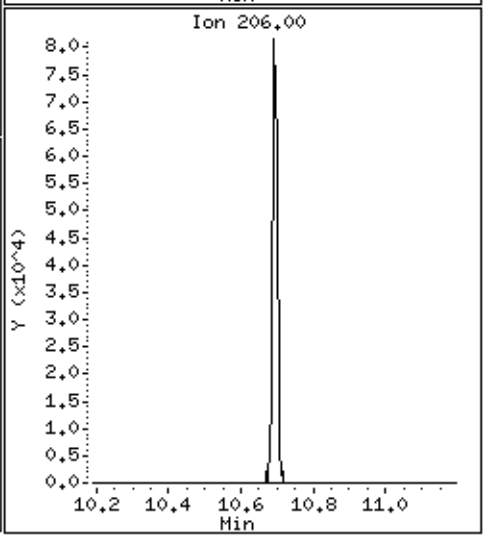
Concentration: 59.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

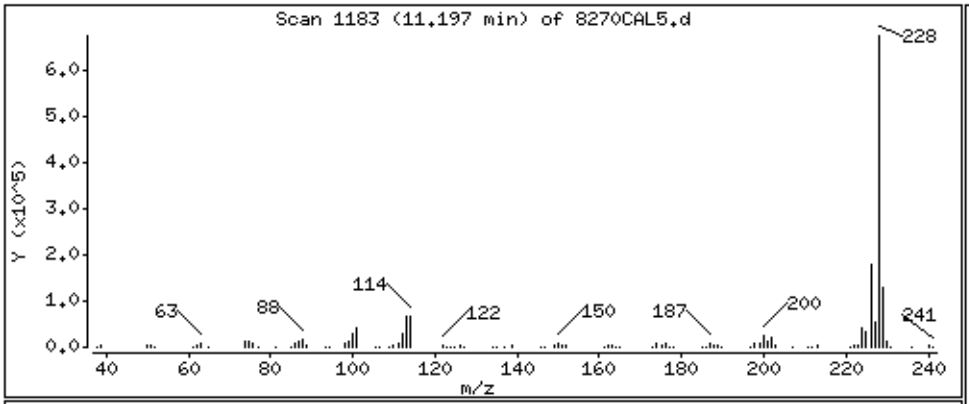
Operator: MJ

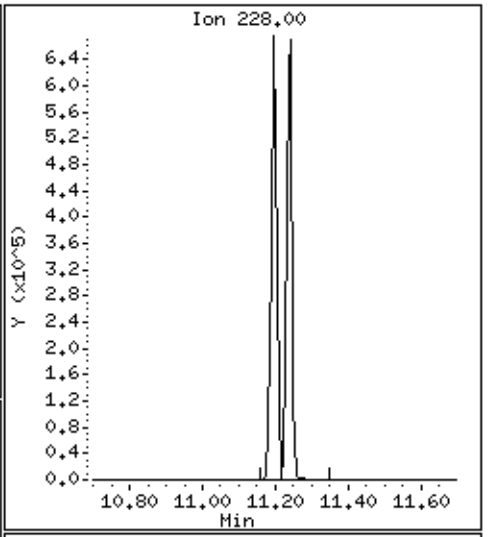
Column phase: HPMS-5

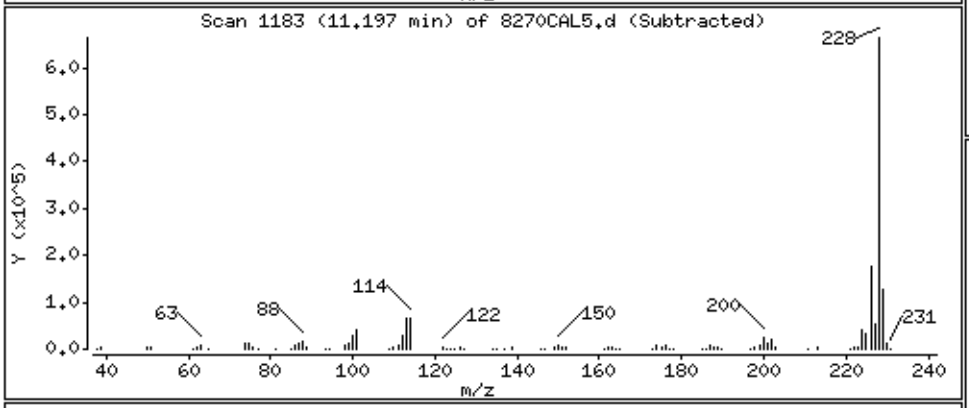
Column diameter: 0.25

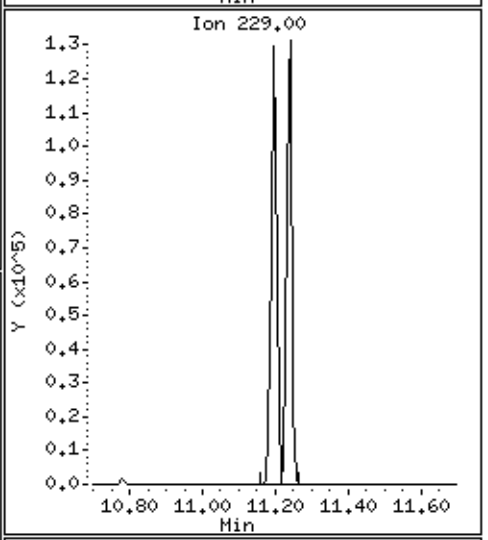
120 Benzo[a]anthracene

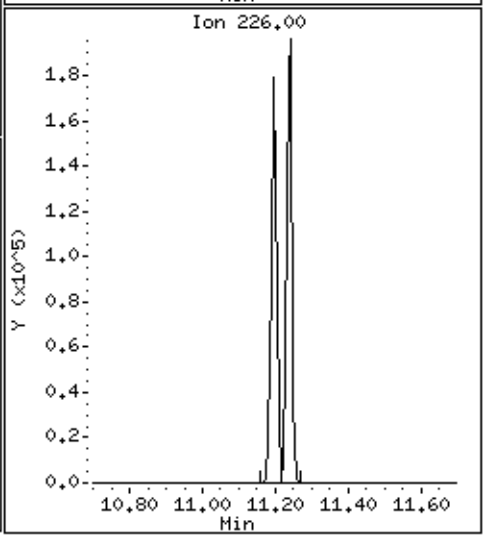
Concentration: 59.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

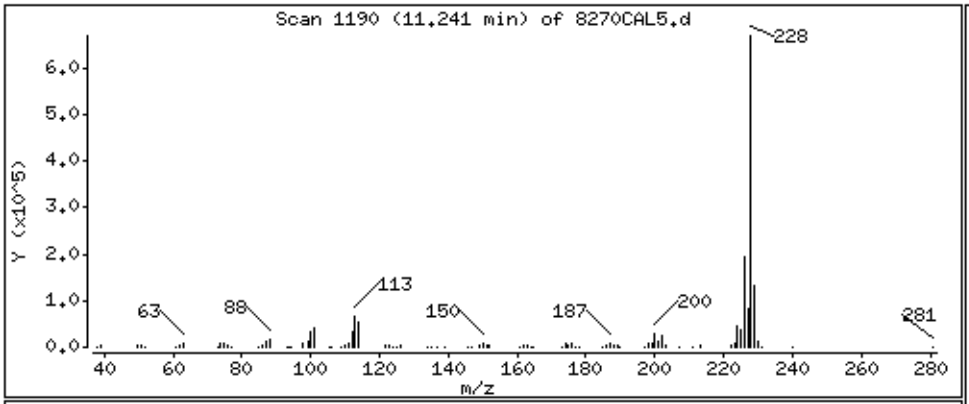
Operator: MJ

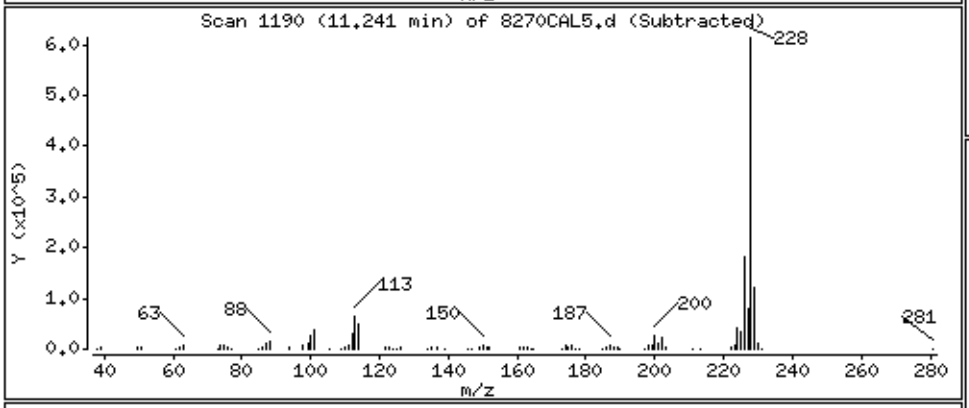
Column phase: HPMS-5

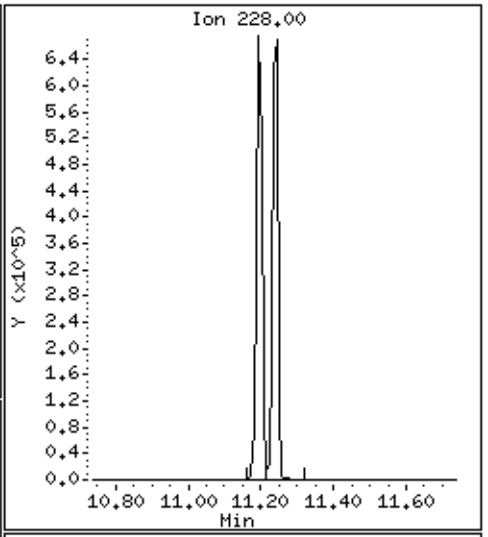
Column diameter: 0.25

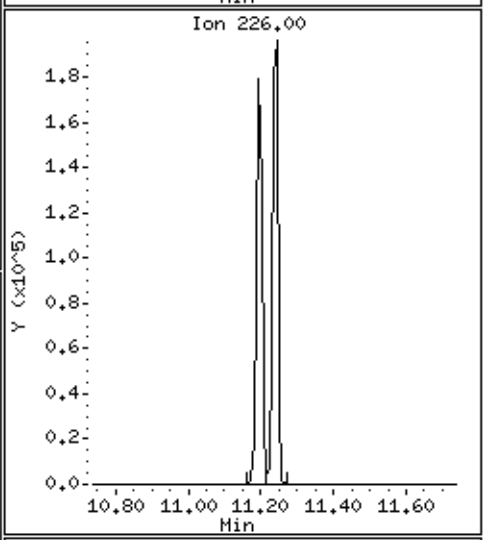
123 Chrysene

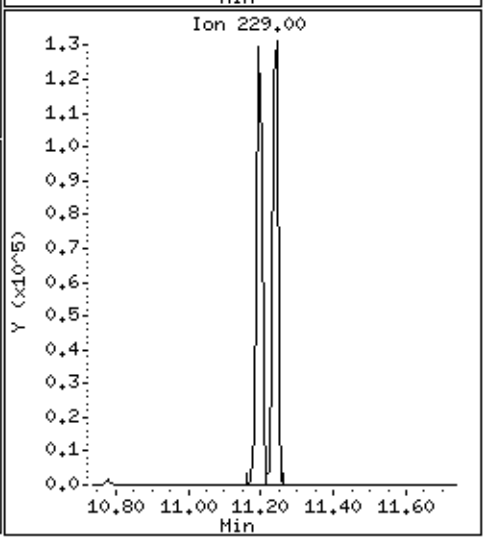
Concentration: 58.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

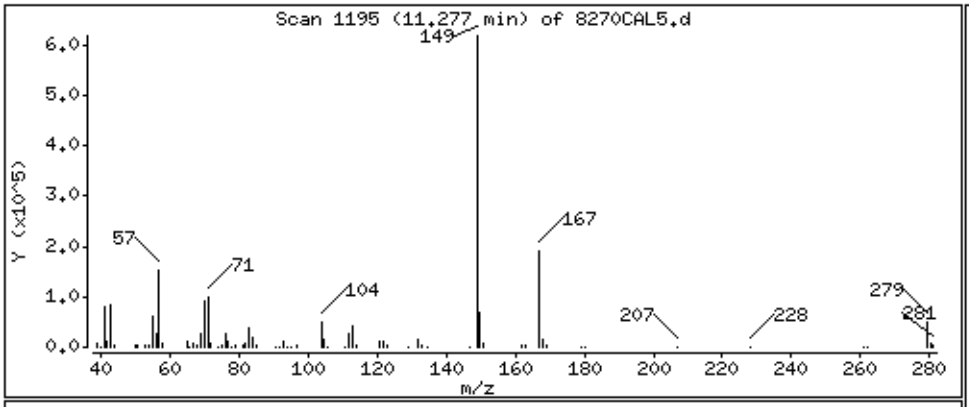
Operator: MJ

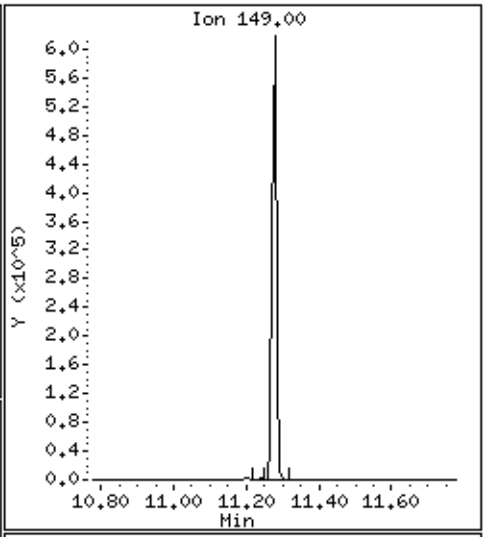
Column phase: HPMS-5

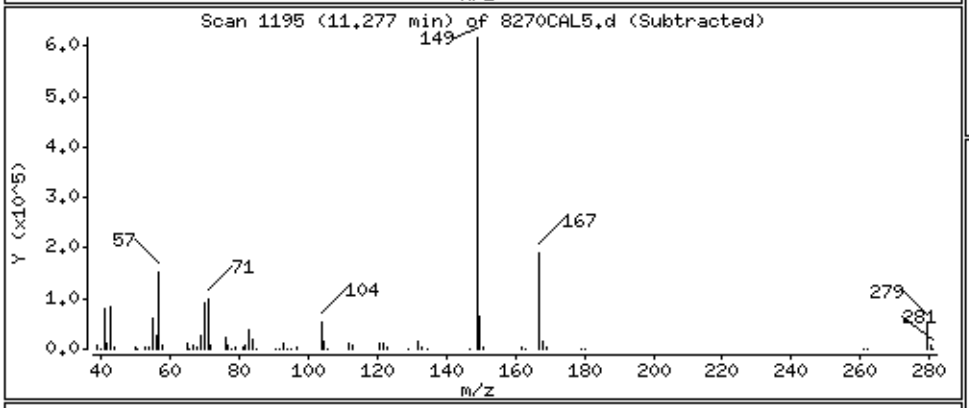
Column diameter: 0.25

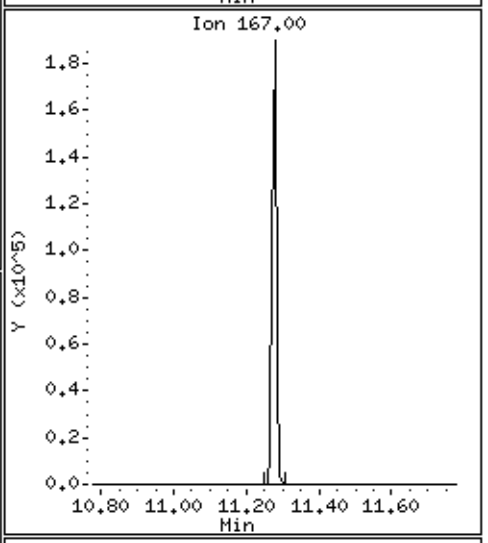
124 Bis-2-Ethylhexylphthalate

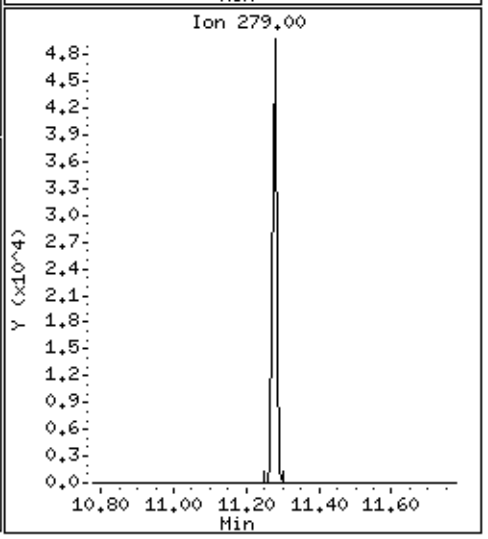
Concentration: 58.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

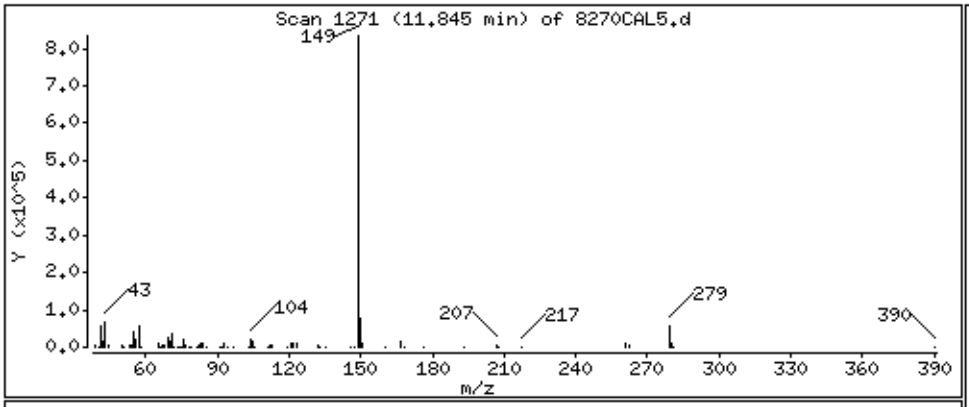
Operator: MJ

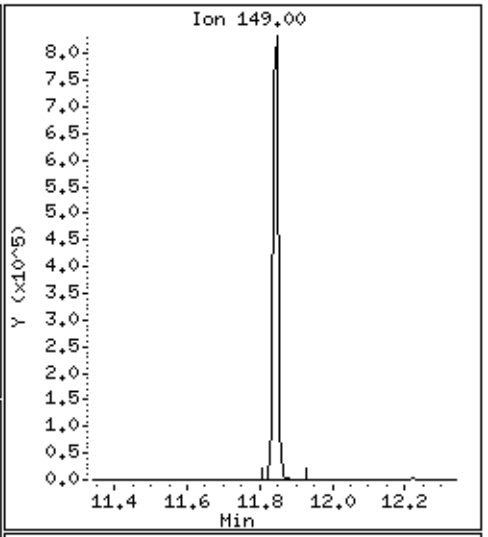
Column phase: HPMS-5

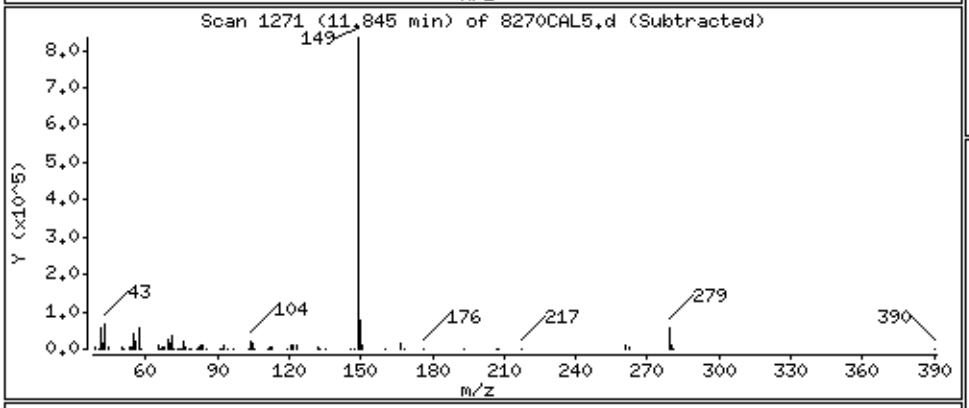
Column diameter: 0.25

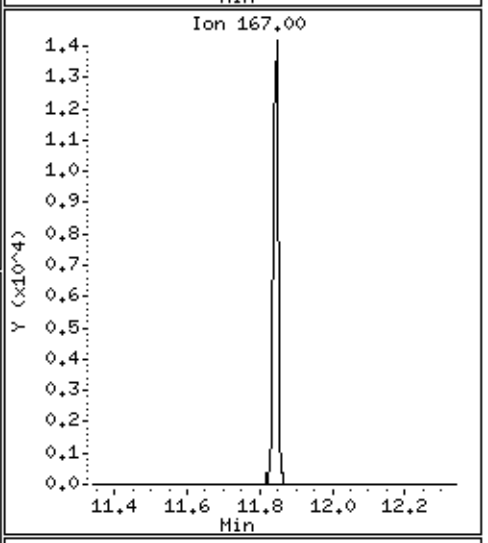
125 Di-n-octylphthalate

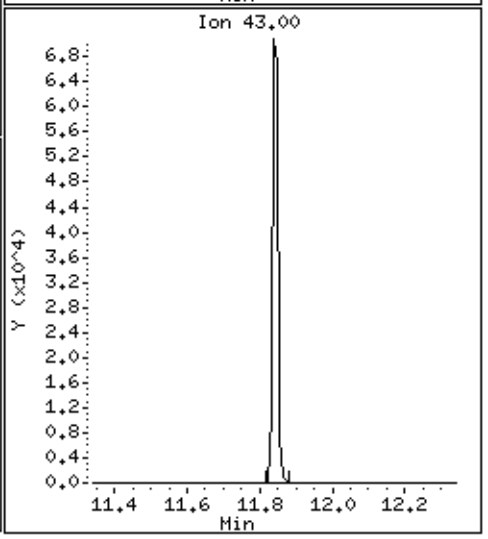
Concentration: 65.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

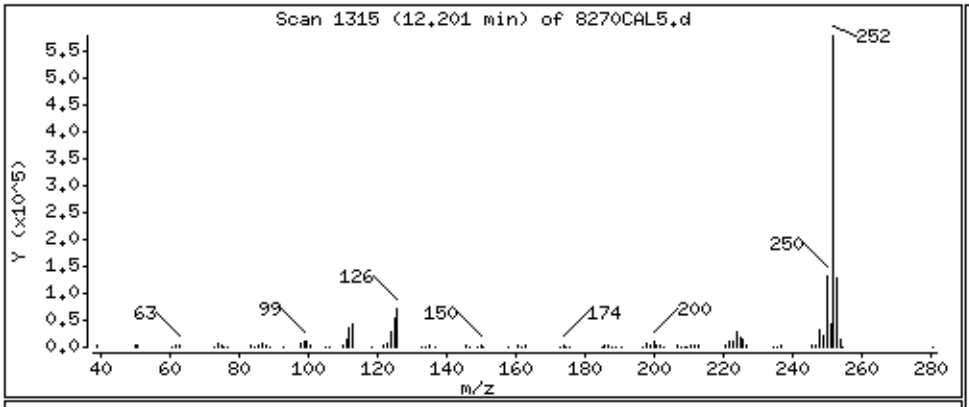
Operator: MJ

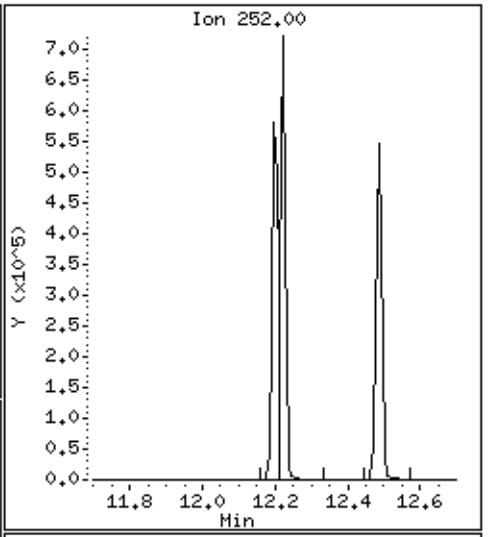
Column phase: HPMS-5

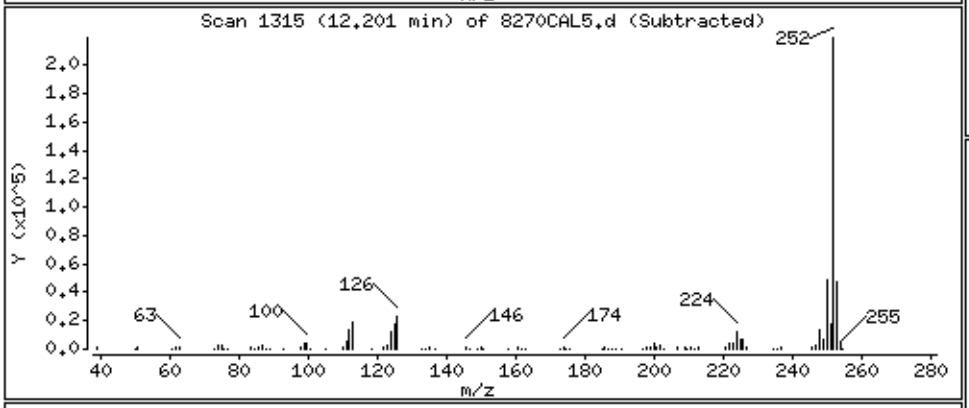
Column diameter: 0.25

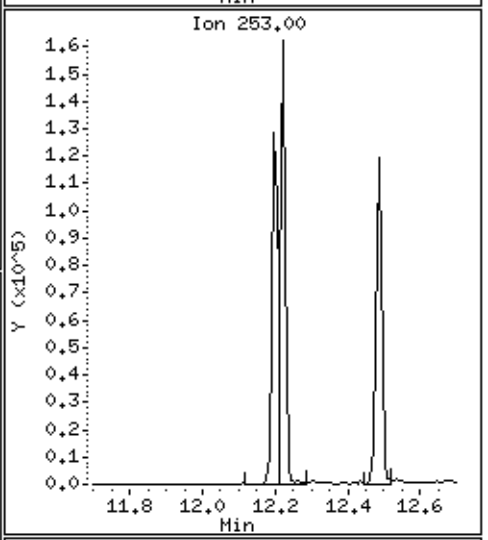
127 Benzo[b]fluoranthene

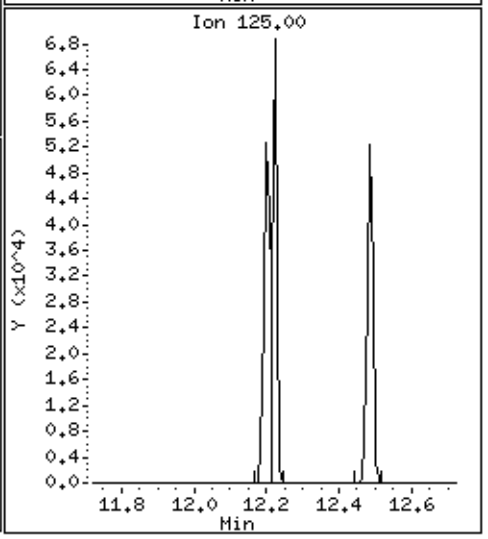
Concentration: 60.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

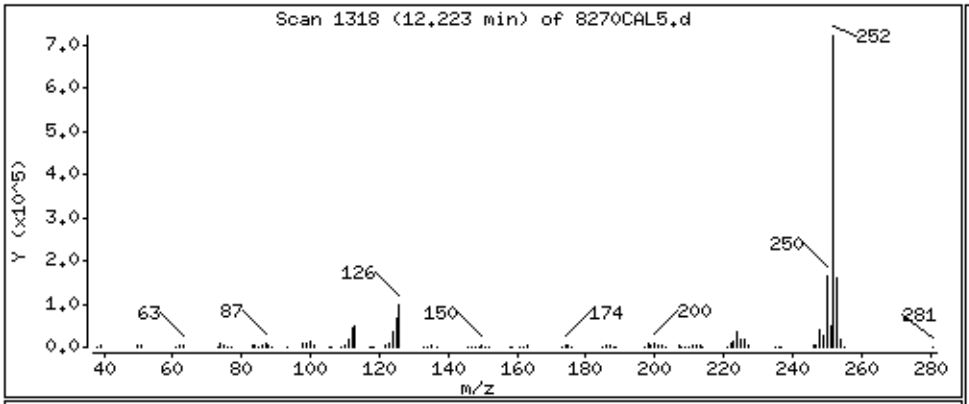
Operator: MJ

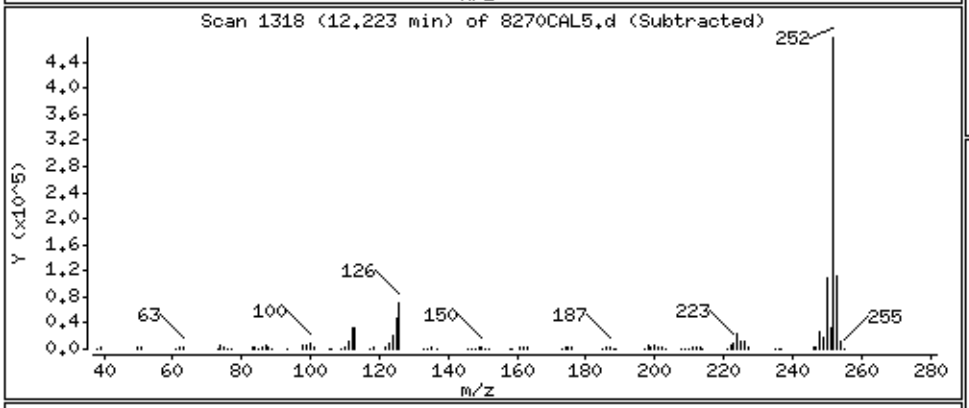
Column phase: HPMS-5

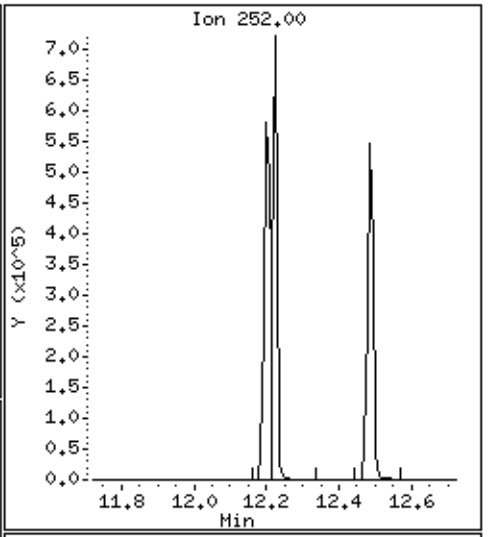
Column diameter: 0.25

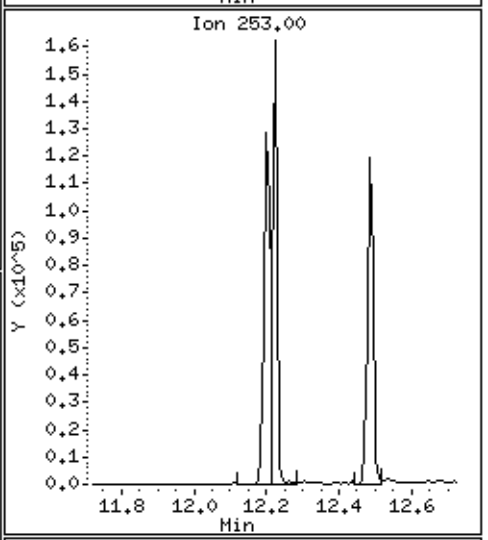
128 Benzo[k]fluoranthene

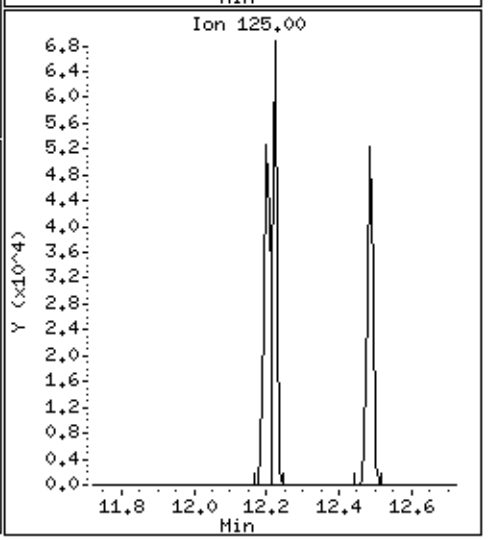
Concentration: 55.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

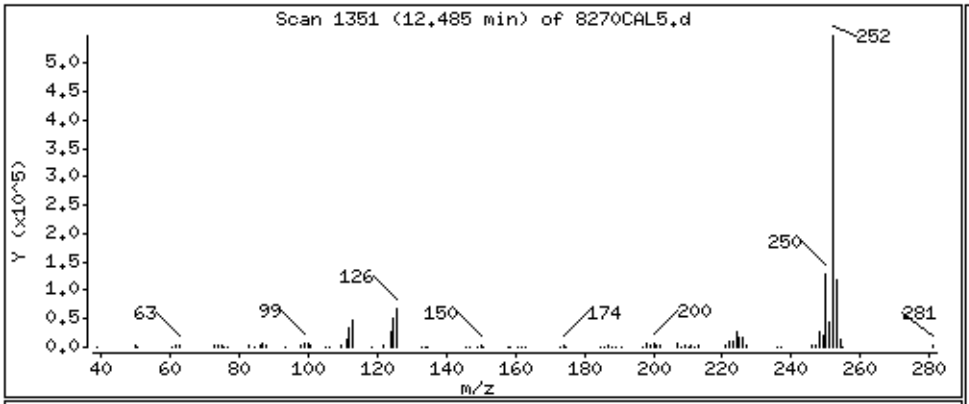
Operator: MJ

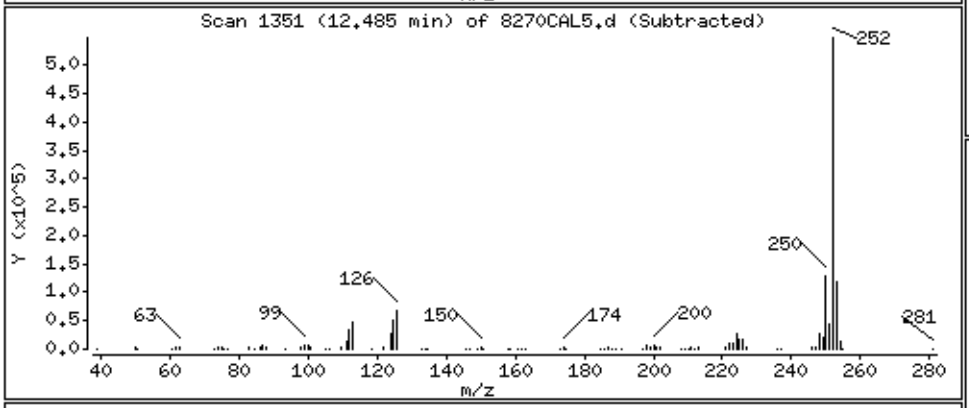
Column phase: HPMS-5

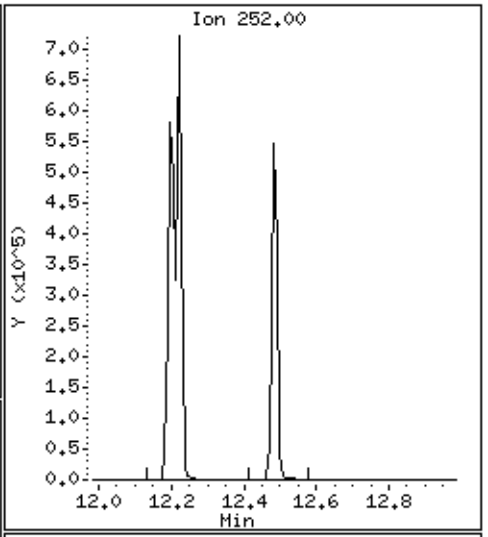
Column diameter: 0.25

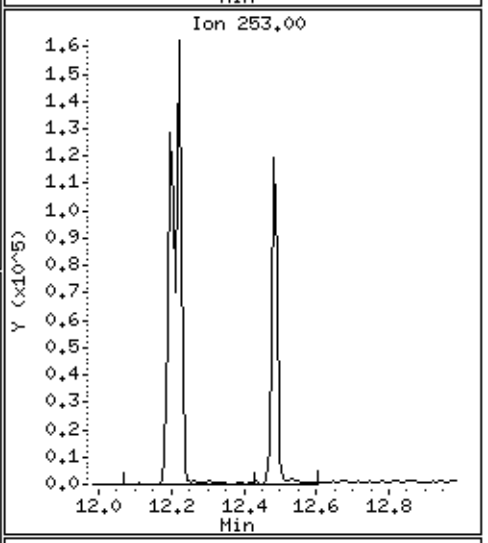
129 Benzo[a]pyrene

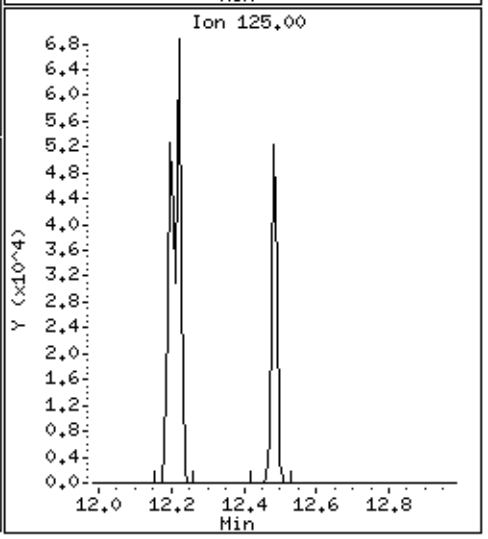
Concentration: 58.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

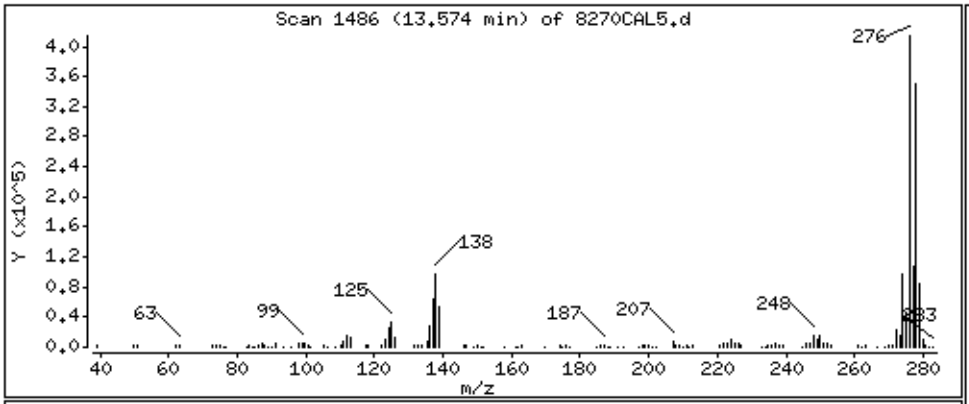
Operator: MJ

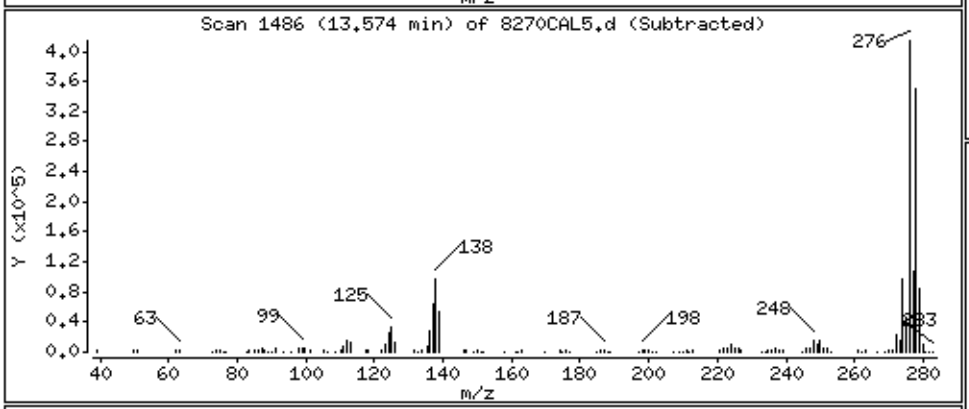
Column phase: HPMS-5

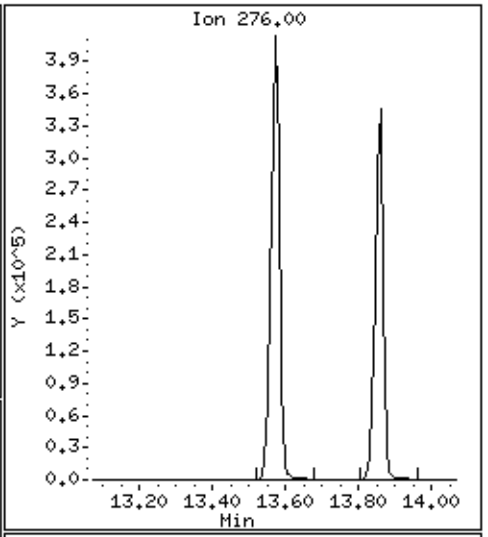
Column diameter: 0.25

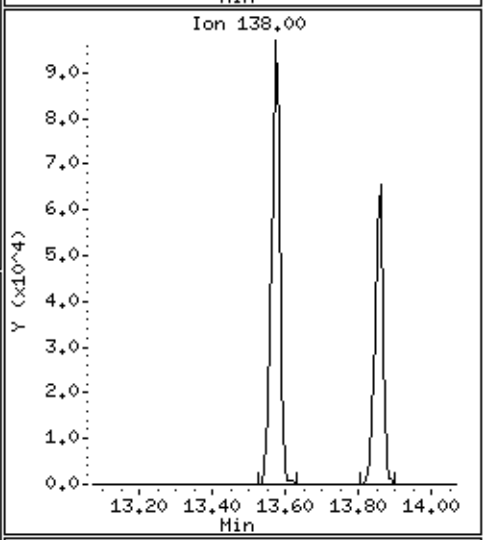
133 Indeno[1,2,3-cd]pyrene

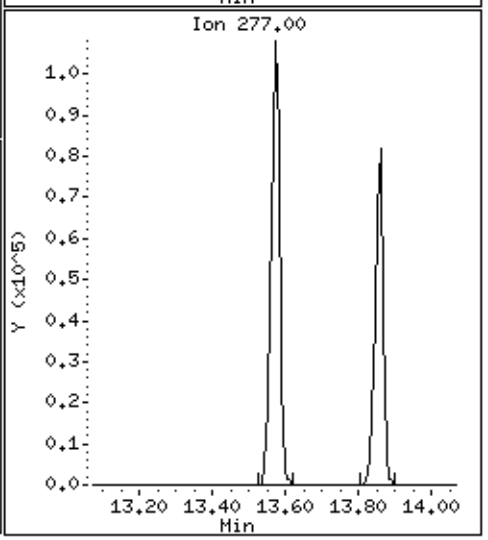
Concentration: 57.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

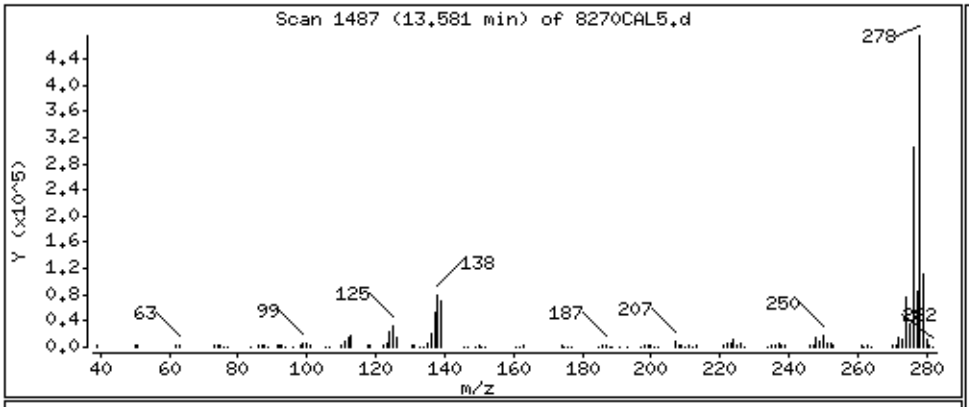
Operator: MJ

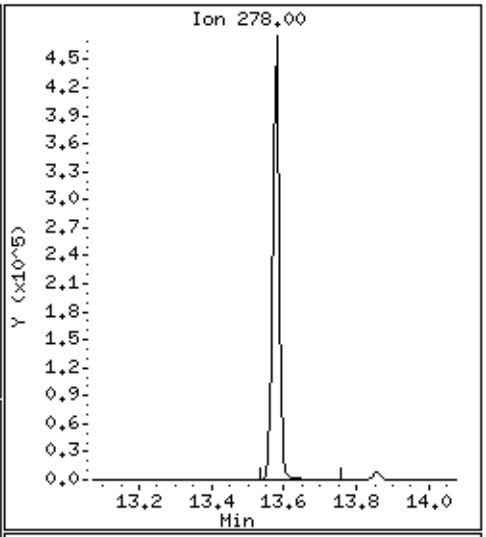
Column phase: HPMS-5

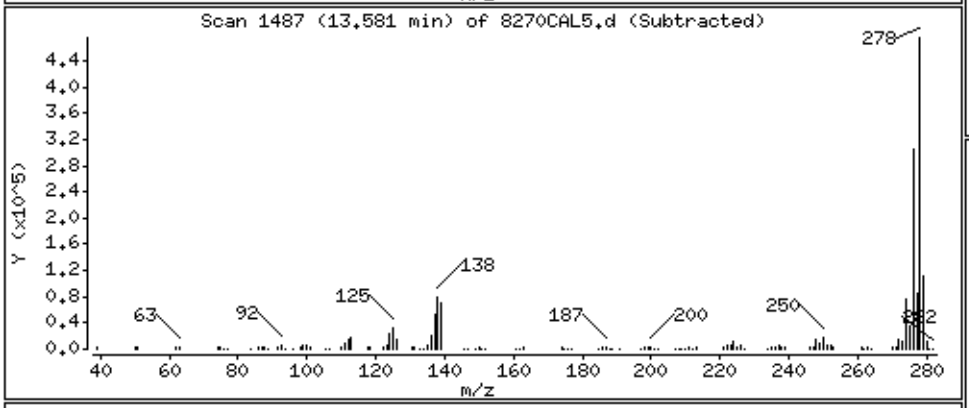
Column diameter: 0.25

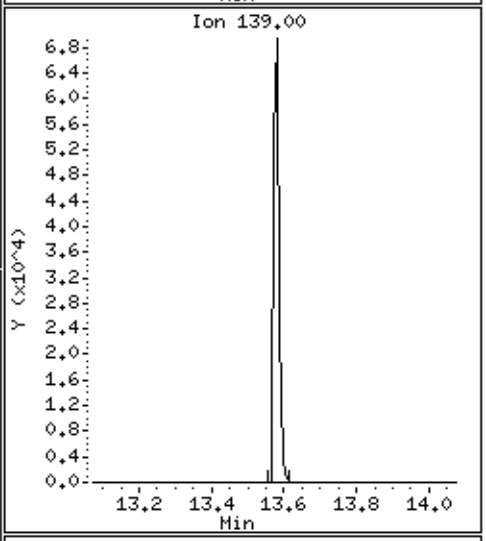
134 Dibenz[a,h]anthracene

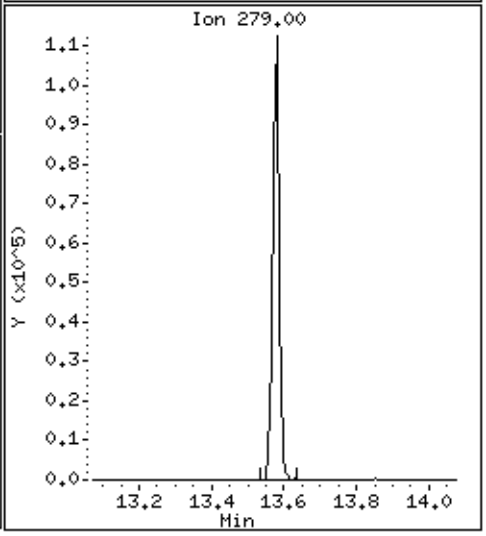
Concentration: 57.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL5.d

Date : 14-NOV-2012 23:22

Client ID: 8270CAL5

Instrument: smsd04.i

Sample Info: 47765

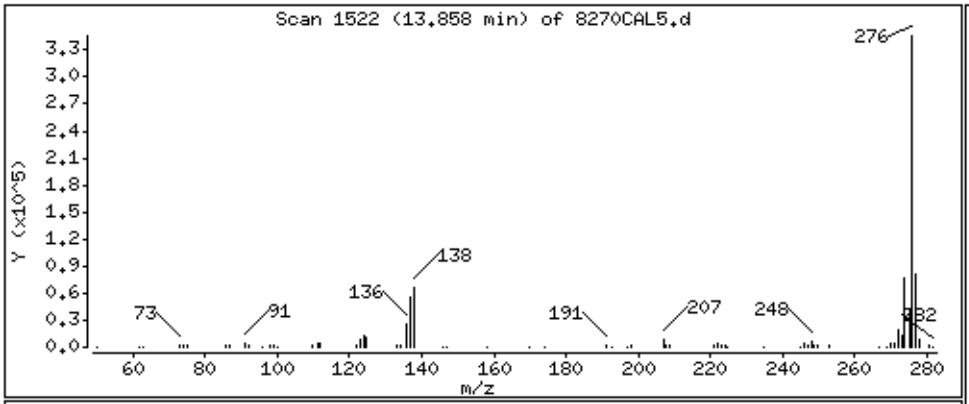
Operator: MJ

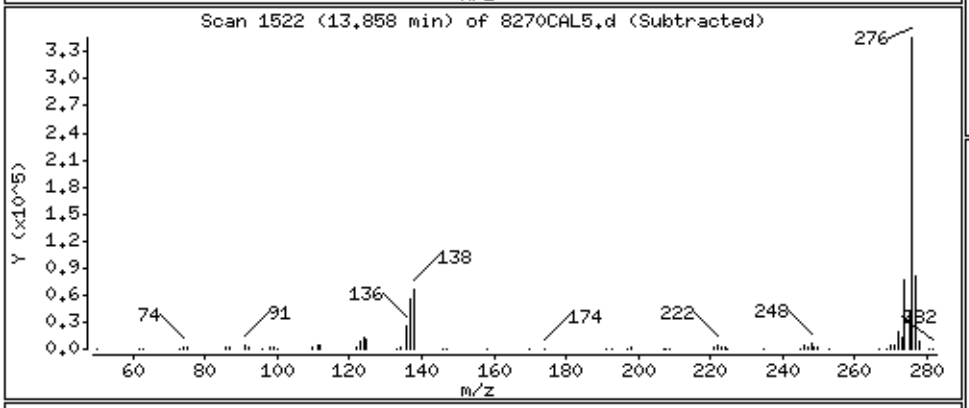
Column phase: HPMS-5

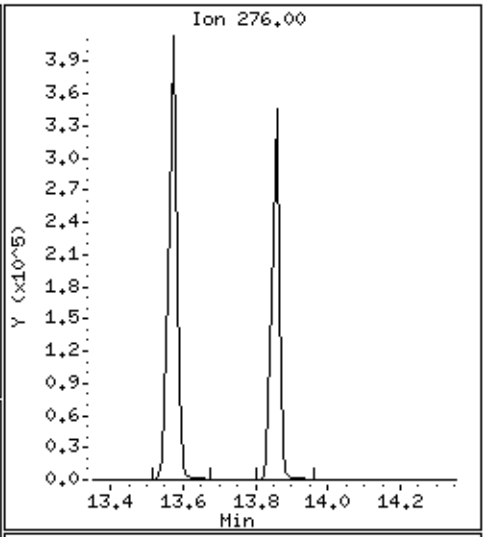
Column diameter: 0.25

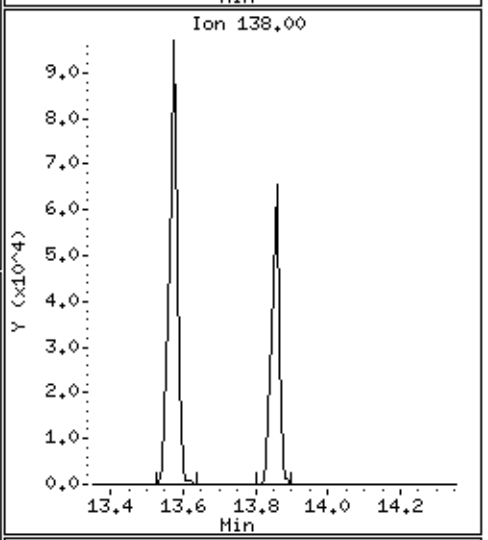
135 Benzo[g,h,i]perylene

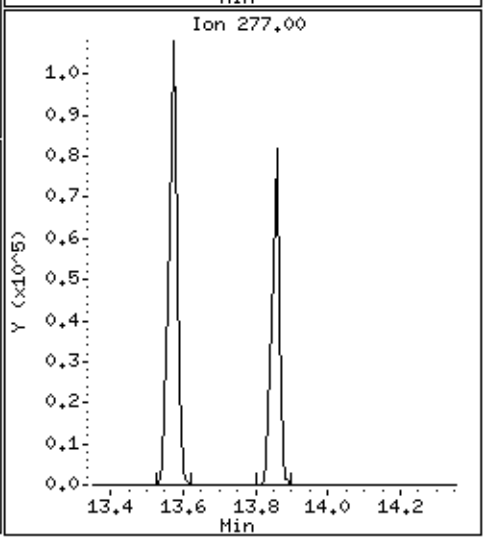
Concentration: 60.4 ug/kg











PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d
Lab Smp Id: 47766 Client Smp ID: 8270CAL4
Inj Date : 14-NOV-2012 23:43 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47766
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270bcs.m
Meth Date : 26-Nov-2012 13:58 smsd04.i Quant Type: ISTD
Cal Date : 15-OCT-2012 14:20 Cal File: AP9CAL4.d
Als bottle: 24 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8270caln.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	2 Pyridine					CAS #: 110-86-1		
2.229	2.228 (0.519)		79	164595	45.0000	44.7	80.00- 120.00	100.00
2.229	2.228 (0.519)		52	107705			35.30- 95.30	65.44
M	16 Cresols (Total)					CAS #: 1319-77-3		
				280494	90.0000			(a)
	1 N-Nitrosodimethylamine					CAS #: 62-75-9		
2.221	2.220 (0.517)		42	72899	45.0000	44.6	80.00- 120.00	100.00
2.221	2.220 (0.517)		74	94785			97.07- 157.07	130.02
2.222	2.221 (0.517)		44	3424			0.00- 34.98	4.70
$	6 2-Fluorophenol (SURR)					CAS #: 367-12-4		
3.247	3.246 (0.756)		112	292122	90.0000	88.7	80.00- 120.00	100.00
3.247	3.246 (0.756)		64	178234			32.62- 92.62	61.01
$	11 Phenol-d5 (SURR)					CAS #: 4165-62-2		
4.007	4.006 (0.933)		99	364964	90.0000	87.0	80.00- 120.00	100.00
4.006	4.006 (0.932)		42	72918			0.00- 49.74	19.98
4.007	4.006 (0.933)		71	151794			12.66- 72.66	41.59

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
13 Phenol						CAS #: 108-95-2		
4.016	4.016	(0.935)	94	211679	45.0000	43.8	80.00- 120.00	100.00
4.016	4.016	(0.935)	65	65305			0.94- 60.94	30.85
4.015	4.015	(0.935)	66	105969			21.40- 81.40	50.06
10 Aniline						CAS #: 62-53-3		
4.046	4.046	(0.942)	93	213114	45.0000	47.5	80.00- 120.00	100.00
4.046	4.046	(0.942)	65	44682			0.00- 50.97	20.97
4.046	4.046	(0.942)	66	90645			12.95- 72.95	42.53
14 Bis(2-Chloroethyl)ether						CAS #: 111-44-4		
4.094	4.094	(0.953)	93	146543	45.0000	45.6	80.00- 120.00	100.00
4.093	4.093	(0.953)	63	106794			43.04- 103.04	72.88
4.094	4.094	(0.953)	95	46012			1.90- 61.90	31.40
15 2-Chlorophenol						CAS #: 95-57-8		
4.142	4.142	(0.964)	128	139406	45.0000	44.2	80.00- 120.00	100.00
4.142	4.142	(0.964)	64	76892			24.14- 84.14	55.16
4.143	4.142	(0.964)	130	46720			2.15- 62.15	33.51
17 1,3-Dichlorobenzene						CAS #: 541-73-1		
4.267	4.267	(0.993)	146	166876	45.0000	44.4	80.00- 120.00	100.00
4.268	4.267	(0.993)	148	105659			34.15- 94.15	63.32
4.267	4.267	(0.993)	111	73477			14.34- 74.34	44.03
* 18 1,4-Dichlorobenzene-d4						CAS #: 3855-82-1		
4.297	4.294	(1.000)	152	99413	40.0000		80.00- 120.00	100.00
4.296	4.294	(1.000)	115	62439			34.81- 94.81	62.81
4.297	4.294	(1.000)	150	190242			126.51- 186.51	191.37
19 1,4-Dichlorobenzene						CAS #: 106-46-7		
4.311	4.311	(1.003)	146	174109	45.0000	44.6	80.00- 120.00	100.00
4.311	4.311	(1.003)	148	112017			36.10- 96.10	64.34
4.311	4.311	(1.003)	111	76334			14.95- 74.95	43.84
21 Benzyl alcohol						CAS #: 100-51-6		
4.429	4.429	(1.031)	108	91639	45.0000	42.7	80.00- 120.00	100.00(M)
4.429	4.429	(1.031)	79	144876			126.03- 186.03	158.09
4.429	4.429	(1.031)	77	96039			76.75- 136.75	104.80
20 1,2-Dichlorobenzene						CAS #: 95-50-1		
4.479	4.478	(1.042)	146	159725	45.0000	44.2	80.00- 120.00	100.00
4.479	4.478	(1.042)	148	101987			33.36- 93.36	63.85
4.478	4.478	(1.042)	111	74369			18.07- 78.07	46.56
22 2-Methylphenol						CAS #: 95-48-7		
4.539	4.538	(1.056)	107	112257	45.0000	43.4	80.00- 120.00	100.00
4.539	4.538	(1.056)	108	127253			83.56- 143.56	113.36
4.538	4.538	(1.056)	79	65319			27.79- 87.79	58.19
23 2,2'-oxybis(1-chloropropane)						CAS #: 108-60-1		
4.571	4.571	(1.064)	45	182168	45.0000	44.9	80.00- 120.00	100.00
4.571	4.571	(1.064)	77	31722			0.00- 47.34	17.41

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
23 2,2'-oxybis(1-chloropropane) (continued)								
4.571	4.571 (1.064)		121	48326			0.00- 56.71	26.53
28 4-Methylphenol						CAS #: 106-44-5		
4.668	4.668 (1.086)		107	168237	45.0000	43.0	80.00- 120.00	100.00
4.668	4.668 (1.086)		108	140270			51.88- 111.88	83.38
4.668	4.668 (1.086)		79	45425			0.00- 57.76	27.00
26 N-Nitrosodinpropylamine						CAS #: 621-64-7		
4.699	4.699 (1.094)		70	122167	45.0000	44.2	80.00- 120.00	100.00(M)
4.699	4.699 (1.094)		42	62331			21.53- 81.53	51.02
4.699	4.699 (1.094)		130	25412			0.00- 51.40	20.80
30 Hexachloroethane						CAS #: 67-72-1		
4.754	4.753 (1.106)		117	74092	45.0000	45.0	80.00- 120.00	100.00
4.754	4.754 (1.106)		201	69866			63.39- 123.39	94.30
4.754	4.754 (1.106)		199	43666			26.40- 86.40	58.93
$ 31 Nitrobenzene-d5 (SURR)						CAS #: 4165-60-0		
4.818	4.818 (0.881)		82	188188	45.0000	45.0	80.00- 120.00	100.00
4.819	4.818 (0.881)		128	68768			6.68- 66.68	36.54
4.818	4.818 (0.881)		54	93052			19.12- 79.12	49.45
32 Nitrobenzene						CAS #: 98-95-3		
4.835	4.834 (0.884)		77	187236	45.0000	45.5	80.00- 120.00	100.00
4.835	4.835 (0.884)		123	69360			6.73- 66.73	37.04
4.835	4.834 (0.884)		65	26452			0.00- 43.84	14.13
34 Isophorone						CAS #: 78-59-1		
5.047	5.046 (0.923)		82	318415	45.0000	44.4	80.00- 120.00	100.00
5.047	5.047 (0.923)		138	49727			0.00- 45.91	15.62
5.047	5.046 (0.923)		95	25232			0.00- 37.77	7.92
35 2-Nitrophenol						CAS #: 88-75-5		
5.128	5.128 (0.938)		139	77667	45.0000	44.4	80.00- 120.00	100.00
5.128	5.127 (0.938)		65	49893			33.65- 93.65	64.24
5.128	5.127 (0.938)		109	31967			13.08- 73.08	41.16
36 2,4-Dimethylphenol						CAS #: 105-67-9		
5.158	5.158 (0.943)		122	118023	45.0000	45.6	80.00- 120.00	100.00
5.158	5.158 (0.943)		107	155243			100.42- 160.42	131.54
5.158	5.158 (0.943)		121	69222			27.73- 87.73	58.65
38 Bis(2-Chloroethoxy)methane						CAS #: 111-91-1		
5.252	5.252 (0.961)		93	184290	45.0000	44.6	80.00- 120.00	100.00
5.252	5.252 (0.961)		95	58799			2.66- 62.66	31.91
5.252	5.252 (0.961)		123	25610			0.00- 43.79	13.90
40 Benzoic Acid						CAS #: 65-85-0		
5.263	5.267 (0.963)		122	75577	45.0000	44.8	80.00- 120.00	100.00
5.264	5.267 (0.963)		105	106745			114.27- 174.27	141.24
5.263	5.267 (0.963)		77	91800			94.81- 154.81	121.47

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
41 2,4-Dichlorophenol							CAS #: 120-83-2	
5.342	5.342	(0.977)	162	131208	45.0000	44.0	80.00- 120.00	100.00
5.343	5.342	(0.977)	164	82641			34.34- 94.34	62.98
5.342	5.342	(0.977)	98	49430			8.30- 68.30	37.67
42 1,2,4-Trichlorobenzene							CAS #: 120-82-1	
5.427	5.427	(0.993)	180	144654	45.0000	44.0	80.00- 120.00	100.00
5.427	5.427	(0.993)	182	138655			69.17- 129.17	95.85
5.427	5.427	(0.993)	145	42129			0.41- 60.41	29.12
* 43 Naphthalene-d8							CAS #: 1146-65-2	
5.467	5.463	(1.000)	136	328158	40.0000		80.00- 120.00	100.00
5.466	5.463	(1.000)	68	23963			0.00- 37.51	7.30
44 Naphthalene							CAS #: 91-20-3	
5.486	5.486	(1.003)	128	396809	45.0000	45.0	80.00- 120.00	100.00
5.485	5.485	(1.003)	129	43504			0.00- 40.78	10.96
5.486	5.486	(1.003)	127	50702			0.00- 42.17	12.78
45 4-Chloroaniline							CAS #: 106-47-8	
5.552	5.552	(1.015)	127	164892	45.0000	45.2	80.00- 120.00	100.00
5.551	5.552	(1.015)	129	51931			2.29- 62.29	31.49
5.551	5.551	(1.015)	65	60968			8.57- 68.57	36.97
48 Hexachlorobutadiene							CAS #: 87-68-3	
5.654	5.654	(1.034)	225	105067	45.0000	45.1	80.00- 120.00	100.00
5.654	5.654	(1.034)	223	64716			31.81- 91.81	61.59
5.654	5.654	(1.034)	227	66935			34.78- 94.78	63.71
51 4-Chloro-3-methylphenol							CAS #: 59-50-7	
6.009	6.009	(1.099)	107	137461	45.0000	42.9	80.00- 120.00	100.00
6.009	6.009	(1.099)	144	32647			0.00- 53.54	23.75
6.009	6.009	(1.099)	142	97260			43.91- 103.91	70.75
53 2-Methylnaphthalene							CAS #: 91-57-6	
6.141	6.141	(1.123)	142	261173	45.0000	43.0	80.00- 120.00	100.00
6.142	6.141	(1.123)	141	224935			55.50- 115.50	86.12
54 1-Methylnaphthalene							CAS #: 90-12-0	
6.247	6.247	(1.143)	142	240769	45.0000	43.0	80.00- 120.00	100.00
6.247	6.247	(1.143)	141	216642			58.78- 118.78	89.98
55 Hexachlorocyclopentadiene							CAS #: 77-47-4	
6.360	6.360	(0.887)	237	99931	45.0000	49.9	80.00- 120.00	100.00
6.360	6.360	(0.887)	235	63303			33.42- 93.42	63.35
6.361	6.360	(0.887)	272	12638			0.00- 41.88	12.65
57 2,4,6-Trichlorophenol							CAS #: 88-06-2	
6.438	6.438	(0.898)	196	97617	45.0000	44.3	80.00- 120.00	100.00
6.438	6.438	(0.898)	198	95669			67.54- 127.54	98.00
6.438	6.438	(0.898)	200	29679			1.18- 61.18	30.40
58 2,4,5-Trichlorophenol							CAS #: 95-95-4	
6.472	6.472	(0.903)	196	107018	45.0000	43.9	80.00- 120.00	100.00

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
58 2,4,5-Trichlorophenol (continued)								
6.472	6.472	(0.903)	198	101409			64.33- 124.33	94.76
6.472	6.472	(0.903)	97	62368			27.55- 87.55	58.28
$ 59 2-Fluorobiphenyl (SURR)						CAS #: 321-60-8		
6.515	6.514	(0.909)	172	336254	45.0000	45.0	80.00- 120.00	100.00
6.515	6.514	(0.909)	171	112883			4.90- 64.90	33.57
62 2-Chloronaphthalene						CAS #: 91-58-7		
6.611	6.610	(0.922)	162	278955	45.0000	45.2	80.00- 120.00	100.00
6.611	6.610	(0.922)	164	89001			1.75- 61.75	31.91
6.610	6.610	(0.922)	127	106544			8.71- 68.71	38.19
63 2-Nitroaniline						CAS #: 88-74-4		
6.740	6.741	(0.940)	65	98245	45.0000	44.6	80.00- 120.00	100.00
6.740	6.741	(0.940)	92	62829			35.13- 95.13	63.95
6.741	6.741	(0.940)	138	87606			59.53- 119.53	89.17
65 Dimethylphthalate						CAS #: 131-11-3		
6.949	6.950	(0.969)	163	323480	45.0000	44.7	80.00- 120.00	100.00
6.949	6.950	(0.969)	194	18713			0.00- 35.76	5.78
6.949	6.949	(0.969)	164	33022			0.00- 39.66	10.21
68 Acenaphthylene						CAS #: 208-96-8		
7.020	7.020	(0.979)	152	427379	45.0000	43.2	80.00- 120.00	100.00
7.020	7.020	(0.979)	151	85543			0.00- 50.20	20.02
7.020	7.020	(0.979)	153	55513			0.00- 43.02	12.99
67 2,6-Dinitrotoluene						CAS #: 606-20-2		
7.015	7.015	(0.978)	165	76311	45.0000	43.7	80.00- 120.00	100.00
7.015	7.015	(0.978)	89	53166			39.45- 99.45	69.67
7.016	7.016	(0.978)	63	79747			74.66- 134.66	104.50
69 3-Nitroaniline						CAS #: 99-09-2		
7.145	7.146	(0.997)	138	70097	45.0000	44.2	80.00- 120.00	100.00
7.146	7.146	(0.997)	108	8469			0.00- 42.35	12.08
7.145	7.145	(0.996)	92	94985			104.62- 164.62	135.51
* 70 Acenaphthene-d10						CAS #: 15067-26-2		
7.170	7.167	(1.000)	164	204923	40.0000		80.00- 120.00	100.00
7.170	7.168	(1.000)	162	193527			66.12- 126.12	94.44
7.170	7.167	(1.000)	160	85850			13.21- 73.21	41.89
71 Acenaphthene						CAS #: 83-32-9		
7.201	7.201	(1.004)	154	247945	45.0000	44.2	80.00- 120.00	100.00
7.201	7.200	(1.004)	153	263913			77.18- 137.18	106.44
7.201	7.200	(1.004)	152	125381			21.21- 81.21	50.57
72 2,4-Dinitrophenol						CAS #: 51-28-5		
7.242	7.243	(1.010)	184	41229	45.0000	45.5	80.00- 120.00	100.00
7.241	7.242	(1.010)	63	31652			48.18- 108.18	76.77
7.242	7.242	(1.010)	154	26489			33.05- 93.05	64.25

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
74 4-Nitrophenol						CAS #: 100-02-7		
7.303	7.303 (1.019)		109	58571	45.0000	40.7	80.00- 120.00	100.00
7.303	7.303 (1.019)		139	57505			61.80- 121.80	98.18
7.303	7.303 (1.018)		65	67981			80.41- 140.41	116.07
75 Dibenzofuran						CAS #: 132-64-9		
7.354	7.355 (1.026)		168	377989	45.0000	43.7	80.00- 120.00	100.00
7.354	7.355 (1.026)		139	153683			10.69- 70.69	40.66
76 2,4-Dinitrotoluene						CAS #: 121-14-2		
7.392	7.392 (1.031)		165	91641	45.0000	42.8	80.00- 120.00	100.00
7.391	7.392 (1.031)		63	48606			23.55- 83.55	53.04
7.392	7.392 (1.031)		89	76144			51.82- 111.82	83.09
80 Diethylphthalate						CAS #: 84-66-2		
7.640	7.640 (1.066)		149	308997	45.0000	42.8	80.00- 120.00	100.00
7.640	7.640 (1.066)		177	67639			0.00- 51.79	21.89
7.640	7.640 (1.065)		150	37621			0.00- 42.28	12.18
81 Fluorene						CAS #: 86-73-7		
7.690	7.690 (1.073)		166	330384	45.0000	42.2	80.00- 120.00	100.00
7.690	7.690 (1.073)		165	311473			61.04- 121.04	94.28
7.690	7.690 (1.073)		167	45187			0.00- 43.06	13.68
82 4-Chlorophenyl-phenylether						CAS #: 7005-72-3		
7.690	7.690 (1.073)		204	176629	45.0000	43.0	80.00- 120.00	100.00
7.690	7.690 (1.073)		206	57143			2.85- 62.85	32.35
7.690	7.690 (1.072)		141	108014			29.43- 89.43	61.15
84 4-Nitroaniline						CAS #: 100-01-6		
7.747	7.750 (1.080)		138	62379	45.0000	42.4	80.00- 120.00	100.00
7.747	7.749 (1.080)		92	36460			30.30- 90.30	58.45
7.747	7.749 (1.080)		108	73484			85.44- 145.44	117.80
85 4,6-Dinitro-2-methylphenol						CAS #: 534-52-1		
7.789	7.790 (0.905)		198	62562	45.0000	43.3	80.00- 120.00	100.00
7.788	7.789 (0.905)		51	32613			21.07- 81.07	52.13
7.788	7.789 (0.905)		105	27290			14.43- 74.43	43.62
86 N-Nitrosodiphenylamine						CAS #: 86-30-6		
7.813	7.814 (0.908)		169	205359	45.0000	45.7	80.00- 120.00	100.00
7.813	7.815 (0.908)		168	143288			41.33- 101.33	69.77
7.813	7.815 (0.908)		167	71236			5.93- 65.93	34.69
87 1,2-Diphenylhydrazine						CAS #: 122-66-7		
7.845	7.845 (1.094)		77	360398	45.0000	43.4	80.00- 120.00	100.00
7.845	7.845 (1.094)		105	49646			0.00- 44.08	13.78
7.845	7.845 (1.094)		182	85412			0.00- 53.69	23.70
$ 88 2,4,6-Tribromophenol (SURR)						CAS #: 118-79-6		
7.945	7.946 (1.108)		330	114308	90.0000	82.8	80.00- 120.00	100.00
7.945	7.946 (1.108)		332	109616			65.21- 125.21	95.90
7.945	7.945 (1.108)		141	46681			10.78- 70.78	40.84

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
93 4-Bromophenylphenylether						CAS #: 101-55-3		
8.163	8.163	(0.949)	248	101304	45.0000	45.6	80.00- 120.00	100.00
8.163	8.163	(0.949)	250	97440			66.63- 126.63	96.19
8.162	8.162	(0.949)	141	78918			49.24- 109.24	77.90
94 Hexachlorobenzene						CAS #: 118-74-1		
8.307	8.307	(0.966)	284	112087	45.0000	44.3	80.00- 120.00	100.00
8.306	8.307	(0.966)	142	42795			10.52- 70.52	38.18
8.307	8.307	(0.966)	249	33587			1.60- 61.60	29.97
96 Pentachlorophenol						CAS #: 87-86-5		
8.480	8.480	(0.986)	266	67089	45.0000	45.0	80.00- 120.00	100.00
8.480	8.481	(0.986)	264	42382			33.54- 93.54	63.17
8.480	8.481	(0.986)	268	42821			34.39- 94.39	63.83
* 100 Phenanthrene-d10						CAS #: 1517-22-2		
8.603	8.604	(1.000)	188	343898	40.0000		80.00- 120.00	100.00
8.603	8.604	(1.000)	94	37422			0.00- 40.39	10.88
8.603	8.603	(1.000)	80	41006			0.00- 41.55	11.92
101 Phenanthrene						CAS #: 85-01-8		
8.626	8.626	(1.003)	178	427943	45.0000	44.2	80.00- 120.00	100.00
8.626	8.626	(1.003)	179	65051			0.00- 45.20	15.20
8.626	8.626	(1.003)	176	81851			0.00- 48.69	19.13
103 Anthracene						CAS #: 120-12-7		
8.669	8.670	(1.008)	178	380839	45.0000	44.0	80.00- 120.00	100.00
8.669	8.670	(1.008)	179	58380			0.00- 45.53	15.33
8.669	8.670	(1.008)	176	69560			0.00- 49.11	18.26
104 Carbazole						CAS #: 86-74-8		
8.829	8.830	(1.026)	167	390179	45.0000	45.4	80.00- 120.00	100.00
8.829	8.830	(1.026)	139	52706			0.00- 43.72	13.51
8.829	8.830	(1.026)	83	35967			0.00- 39.70	9.22
105 Di-n-butylphthalate						CAS #: 84-74-2		
9.226	9.227	(1.072)	149	534462	45.0000	44.8	80.00- 120.00	100.00
9.226	9.227	(1.072)	150	47319			0.00- 39.16	8.85
9.226	9.227	(1.072)	104	34379			0.00- 36.36	6.43
109 Fluoranthene						CAS #: 206-44-0		
9.795	9.797	(1.139)	202	479681	45.0000	44.3	80.00- 120.00	100.00
9.795	9.796	(1.139)	101	55805			0.00- 41.60	11.63
9.795	9.797	(1.139)	203	80345			0.00- 47.37	16.75
111 Pyrene						CAS #: 129-00-0		
10.016	10.016	(0.893)	202	479908	45.0000	45.8	80.00- 120.00	100.00
10.015	10.016	(0.893)	200	98320			0.00- 50.33	20.49
10.015	10.016	(0.893)	203	85167			0.00- 47.92	17.75
$ 112 Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
10.179	10.179	(0.908)	244	373530	45.0000	45.0	80.00- 120.00	100.00
10.177	10.178	(0.908)	122	40343			0.00- 40.67	10.80

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
$ 112 Terphenyl-d14 (SURR) (continued)								
10.178	10.179	(0.908)	212	28319			0.00- 37.92	7.58
118 Butylbenzylphthalate						CAS #: 85-68-7		
10.691	10.690	(0.953)	149	235873	45.0000	44.3	80.00- 120.00	100.00
10.691	10.691	(0.953)	91	177779			45.72- 105.72	75.37
10.691	10.692	(0.953)	206	51193			0.00- 51.71	21.70
120 Benzo[a]anthracene						CAS #: 56-55-3		
11.194	11.194	(0.998)	228	464366	45.0000	43.4	80.00- 120.00	100.00
11.194	11.194	(0.998)	229	92014			0.00- 49.13	19.81
11.194	11.194	(0.998)	226	123585			0.00- 57.06	26.61
* 121 Chrysene-d12						CAS #: 1719-03-5		
11.213	11.211	(1.000)	240	389232	40.0000		80.00- 120.00	100.00
11.212	11.210	(1.000)	120	39830			0.00- 40.02	10.23
11.213	11.210	(1.000)	236	95070			0.00- 54.50	24.43
123 Chrysene						CAS #: 218-01-9		
11.236	11.238	(1.002)	228	454203	45.0000	43.7	80.00- 120.00	100.00
11.237	11.238	(1.002)	226	131801			0.00- 59.08	29.02
11.236	11.238	(1.002)	229	89670			0.00- 49.34	19.74
124 Bis-2-Ethylhexylphthalate						CAS #: 117-81-7		
11.275	11.275	(1.006)	149	319489	45.0000	43.3	80.00- 120.00	100.00
11.275	11.276	(1.006)	167	96133			0.00- 59.84	30.09
11.276	11.276	(1.006)	279	23642			0.00- 37.67	7.40
125 Di-n-octylphthalate						CAS #: 117-84-0		
11.842	11.842	(0.945)	149	557912	45.0000	48.5	80.00- 120.00	100.00
11.842	11.843	(0.945)	167	8532			0.00- 31.49	1.53
11.842	11.842	(0.945)	43	48697			0.00- 38.92	8.73
127 Benzo[b]fluoranthene						CAS #: 205-99-2		
12.198	12.198	(0.973)	252	426979	45.0000	43.0	80.00- 120.00	100.00
12.198	12.198	(0.973)	253	93622			0.00- 52.25	21.93
12.219	12.219	(0.975)	125	79012			0.00- 48.56	18.50
128 Benzo[k]fluoranthene						CAS #: 207-08-9		
12.220	12.220	(0.975)	252	463277	45.0000	42.0	80.00- 120.00	100.00
12.220	12.220	(0.975)	253	100897			0.00- 52.11	21.78
12.219	12.219	(0.975)	125	79013			0.00- 46.79	17.06
129 Benzo[a]pyrene						CAS #: 50-32-8		
12.482	12.484	(0.996)	252	409025	45.0000	42.8	80.00- 120.00	100.00
12.482	12.484	(0.996)	253	93365			0.00- 51.58	22.83
12.481	12.484	(0.996)	125	40106			0.00- 39.66	9.81
* 130 Perylene-d12						CAS #: 1520-96-3		
12.532	12.532	(1.000)	264	344421	40.0000		80.00- 120.00	100.00
12.532	12.533	(1.000)	260	76724			0.00- 52.70	22.28
12.532	12.532	(1.000)	265	73872			0.00- 52.11	21.45

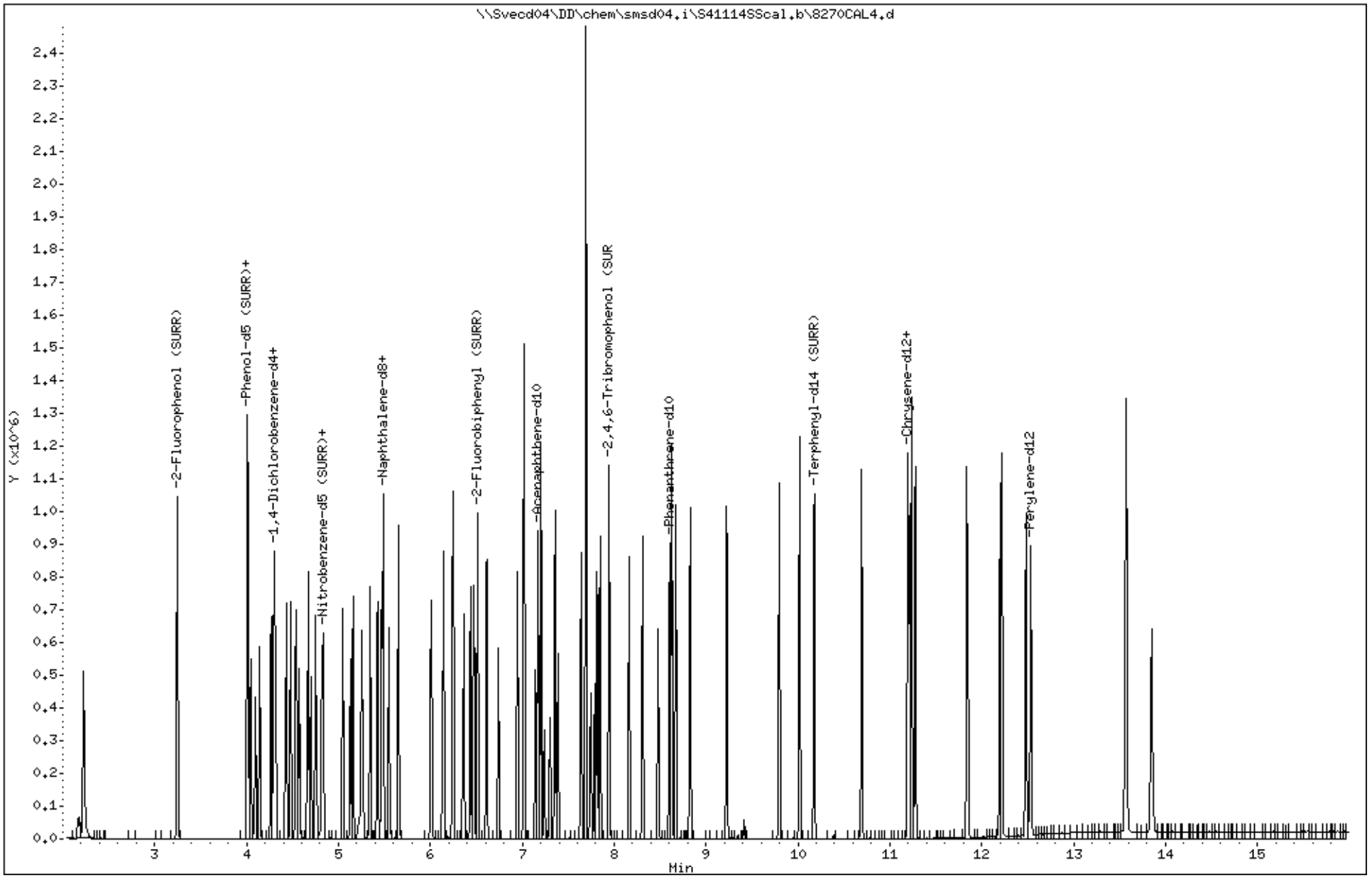
					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
133 Indeno[1,2,3-cd]pyrene						CAS #: 193-39-5		
13.569	13.569	(1.083)	276	473914	45.0000	44.8	80.00- 120.00	100.00
13.570	13.570	(1.083)	138	108383			0.00- 53.00	22.87
13.570	13.570	(1.083)	277	119436			0.00- 55.19	25.20
134 Dibenz[a,h]anthracene						CAS #: 53-70-3		
13.574	13.574	(1.083)	278	396036	45.0000	43.7	80.00- 120.00	100.00
13.573	13.573	(1.083)	139	60280			0.00- 45.33	15.22
13.574	13.574	(1.083)	279	90967			0.00- 53.44	22.97
135 Benzo[g,h,i]perylene						CAS #: 191-24-2		
13.852	13.852	(1.105)	276	376725	45.0000	47.0	80.00- 120.00	100.00
13.851	13.852	(1.105)	138	71705			0.00- 48.86	19.03
13.852	13.852	(1.105)	277	90068			0.00- 53.33	23.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d
Date : 14-NOV-2012 23:43
Client ID: 8270CAL4
Sample Info: 47766

Instrument: smsd04.i
Operator: MJ
Column phase: HPMS-5
Column diameter: 0.25



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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

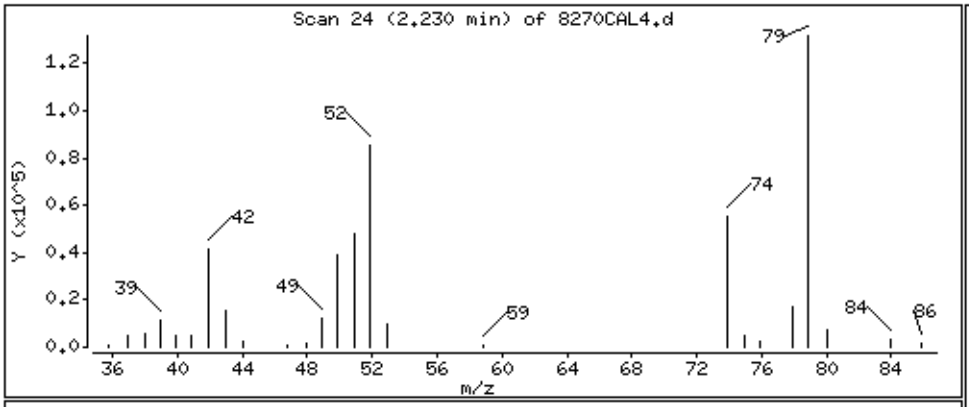
Operator: MJ

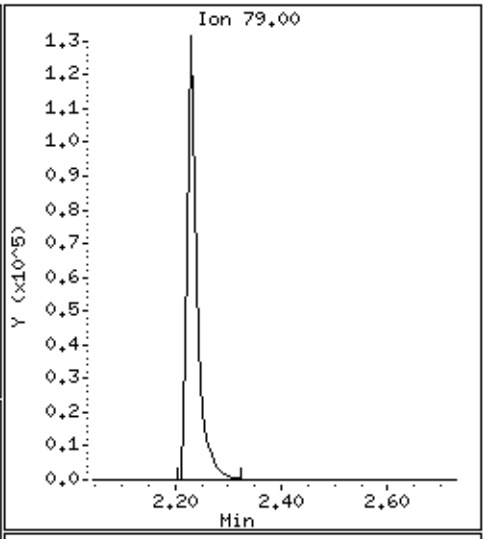
Column phase: HPMS-5

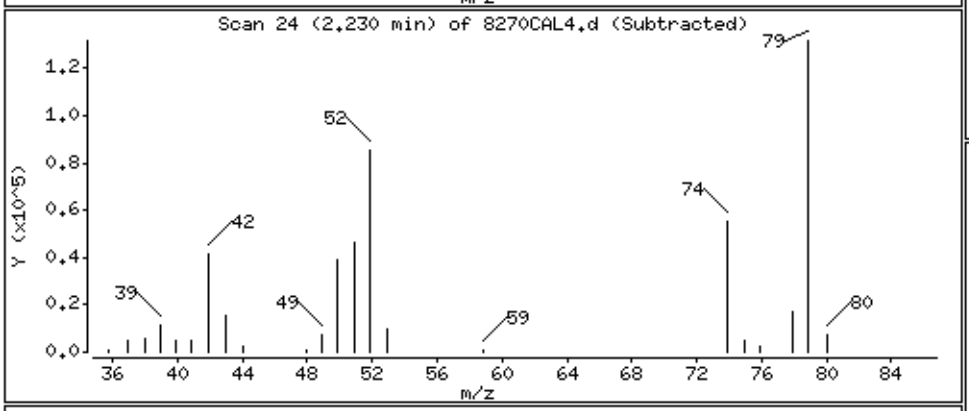
Column diameter: 0.25

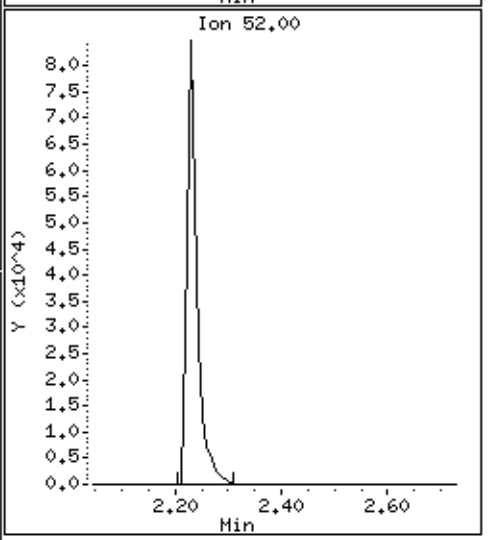
2 Pyridine

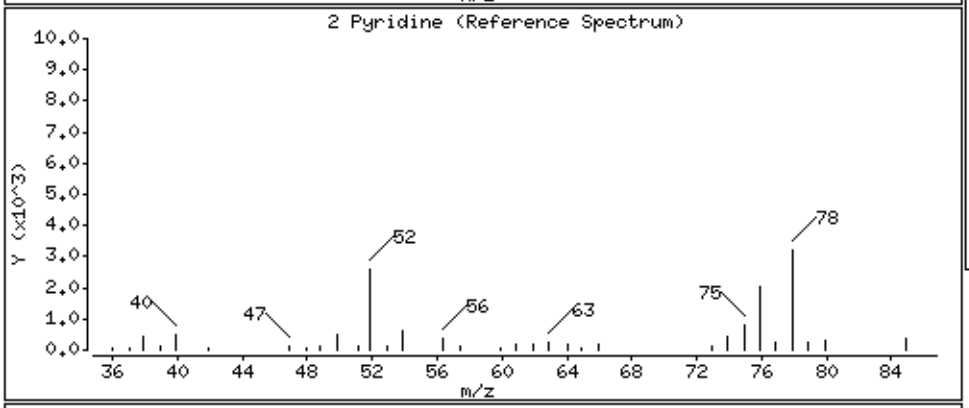
Concentration: 44.7 ug/kg

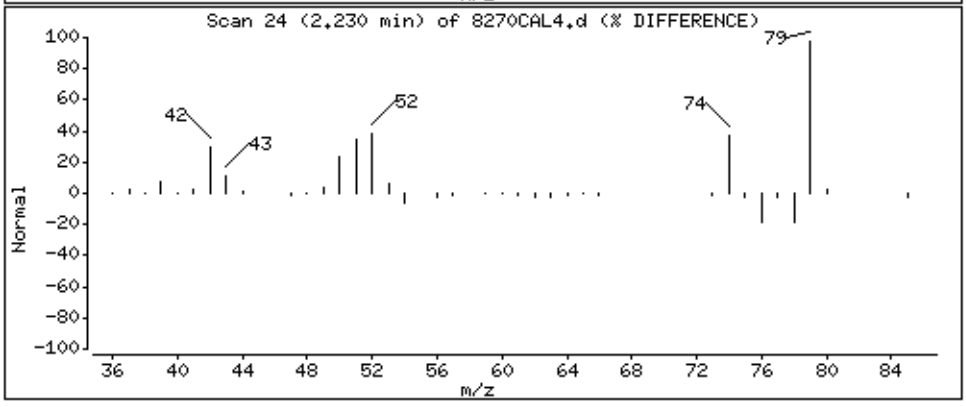












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

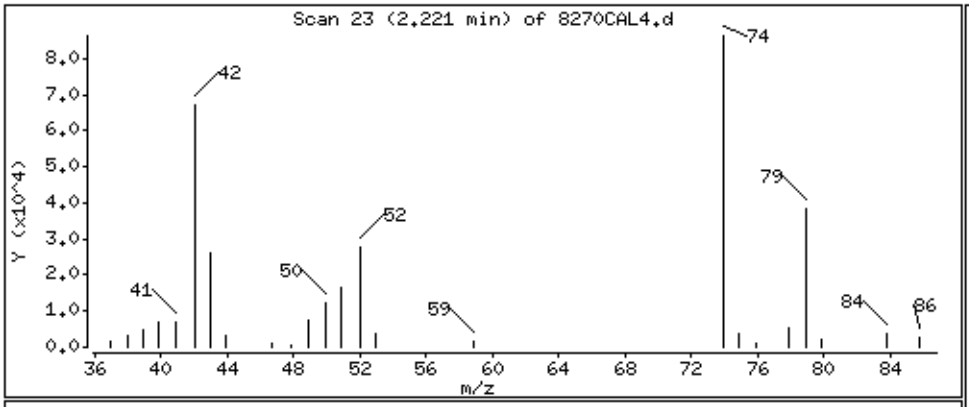
Operator: MJ

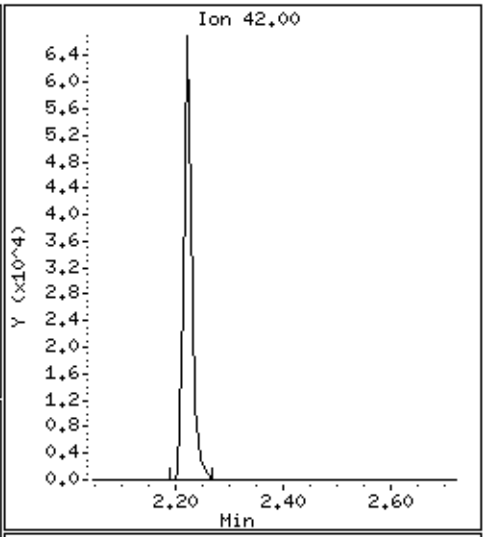
Column phase: HPMS-5

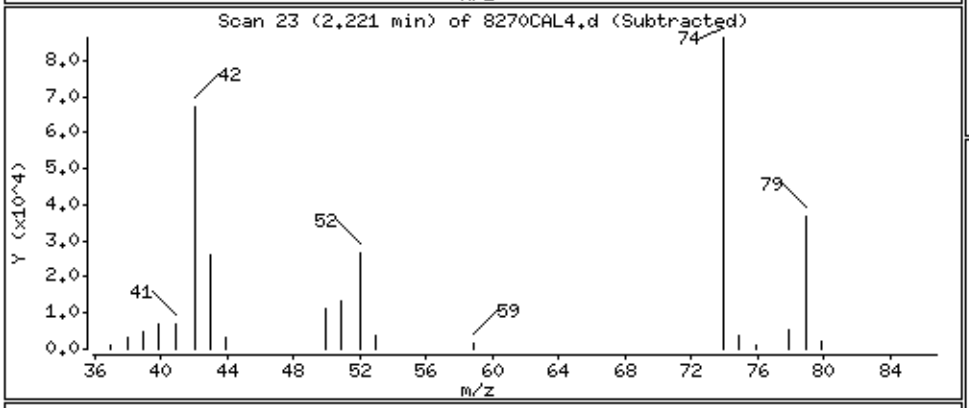
Column diameter: 0.25

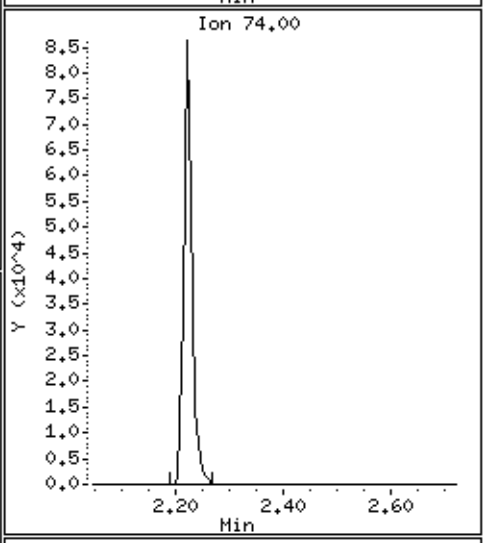
1 N-Nitrosodimethylamine

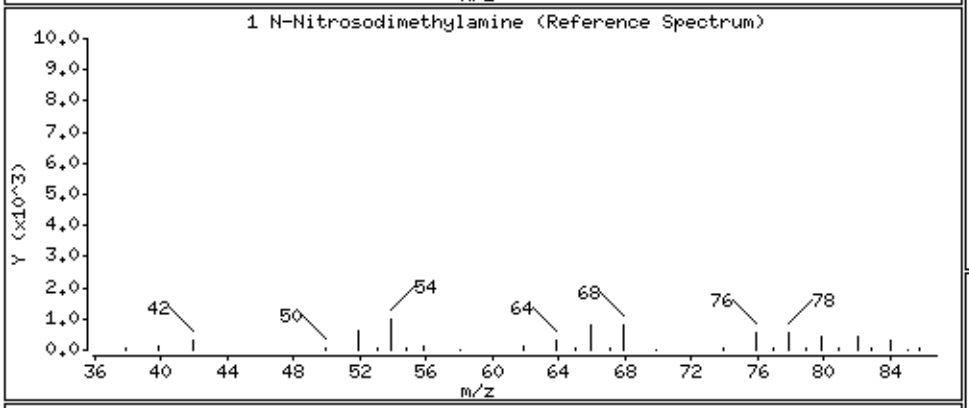
Concentration: 44.6 ug/kg

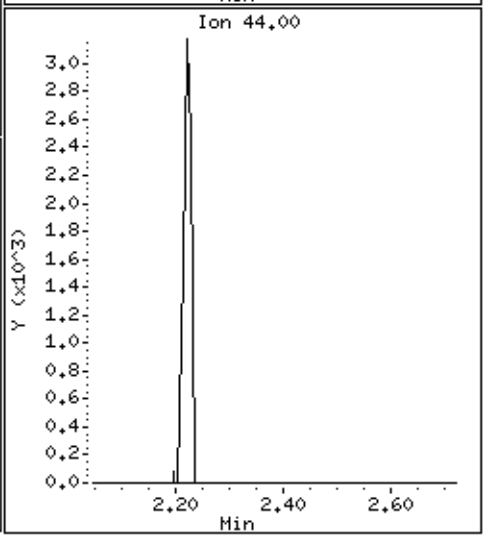


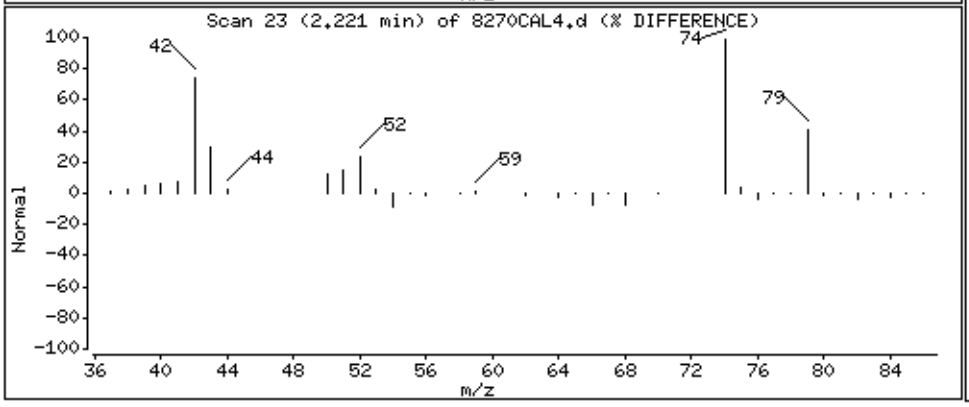












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

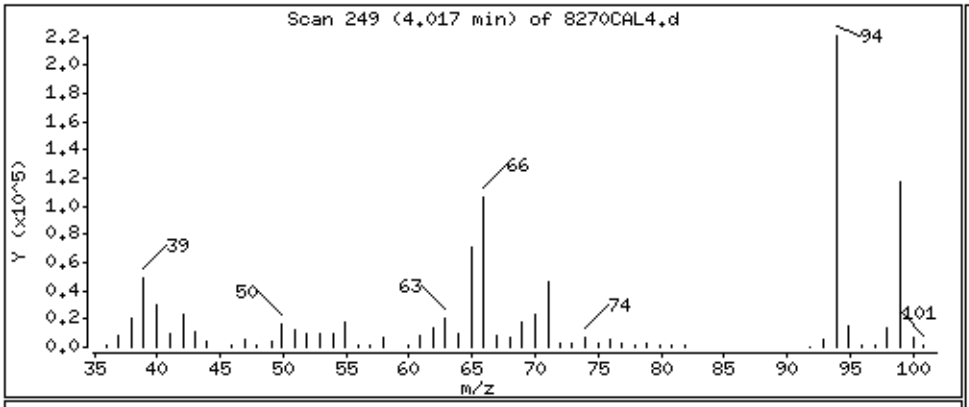
Operator: MJ

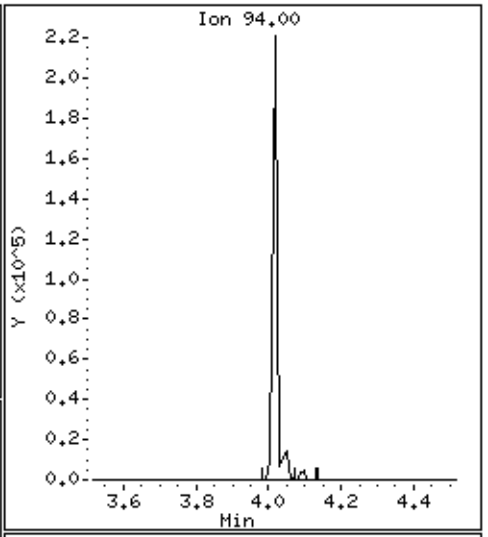
Column phase: HPMS-5

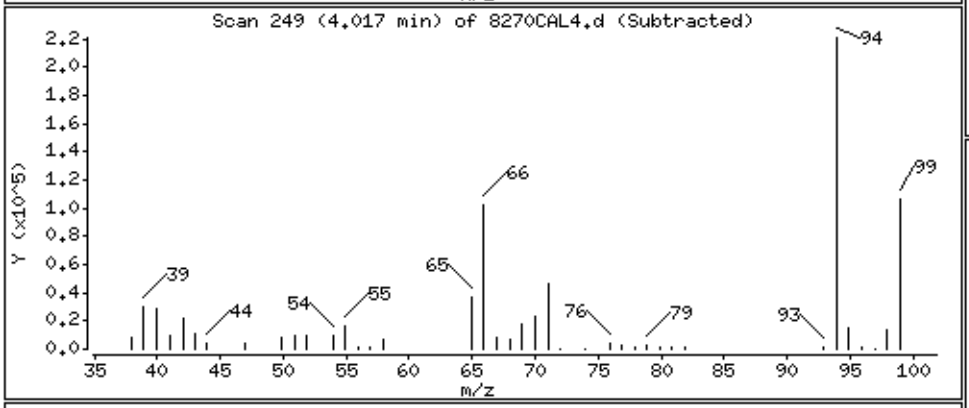
Column diameter: 0.25

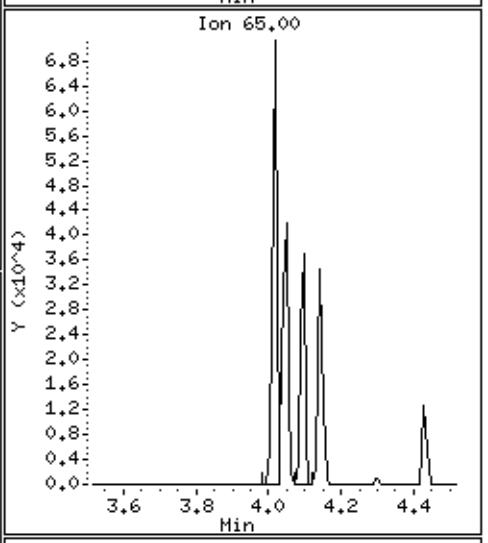
13 Phenol

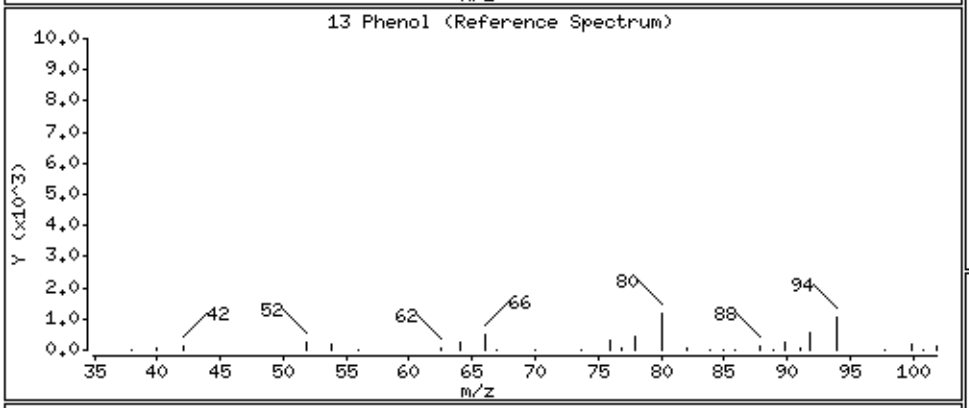
Concentration: 43.8 ug/kg

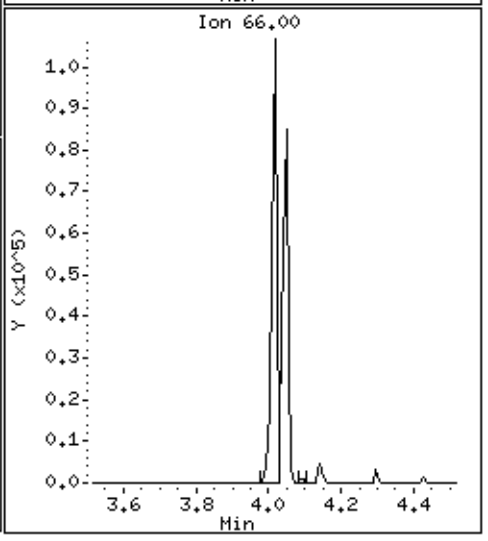


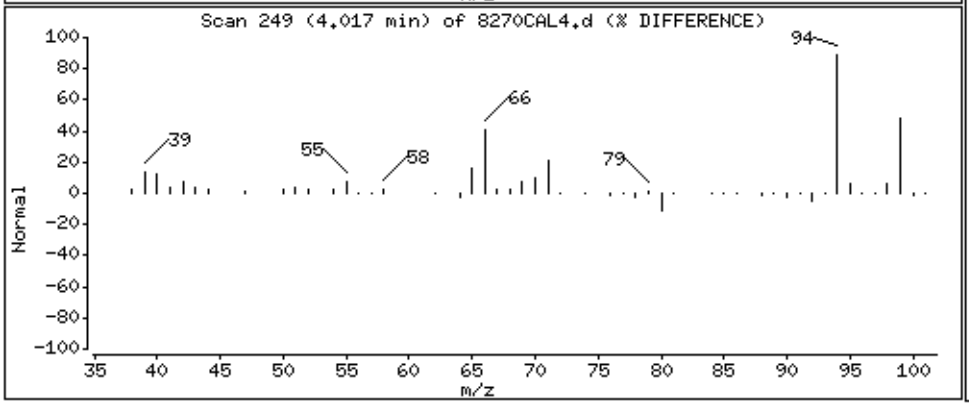












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

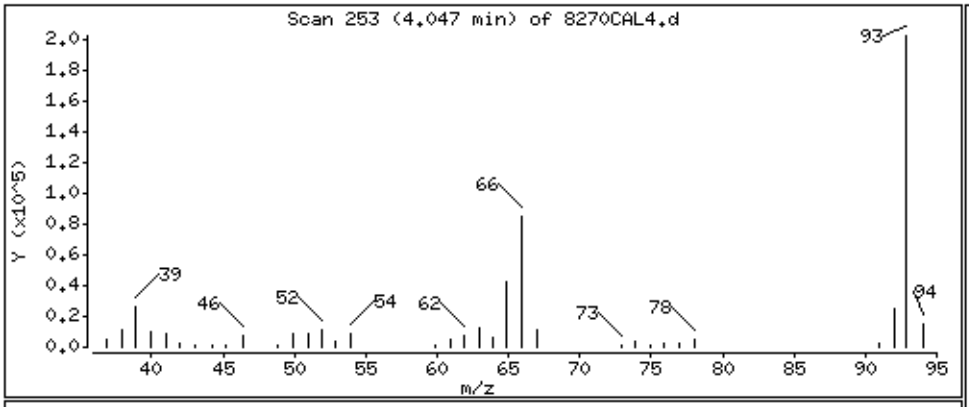
Operator: MJ

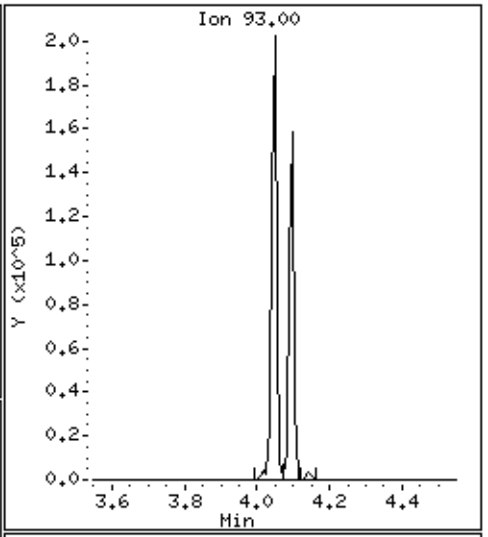
Column phase: HPMS-5

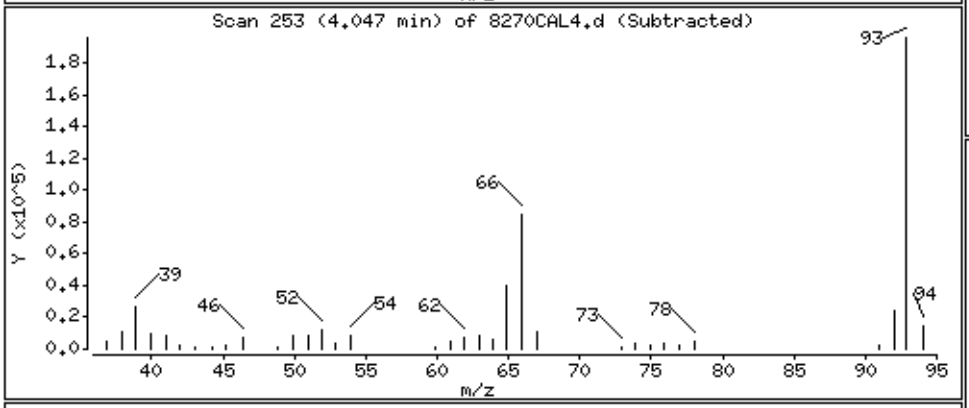
Column diameter: 0.25

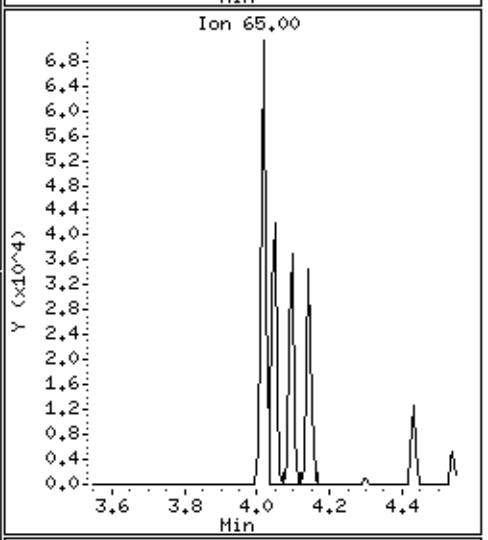
10 Aniline

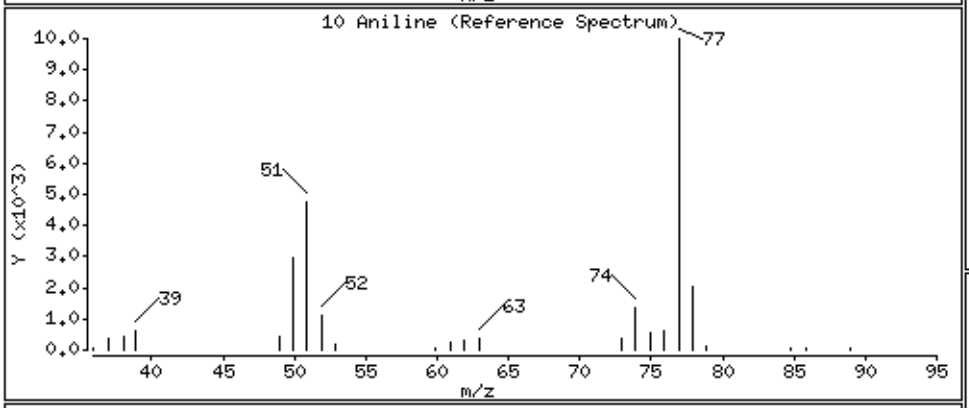
Concentration: 47.5 ug/kg

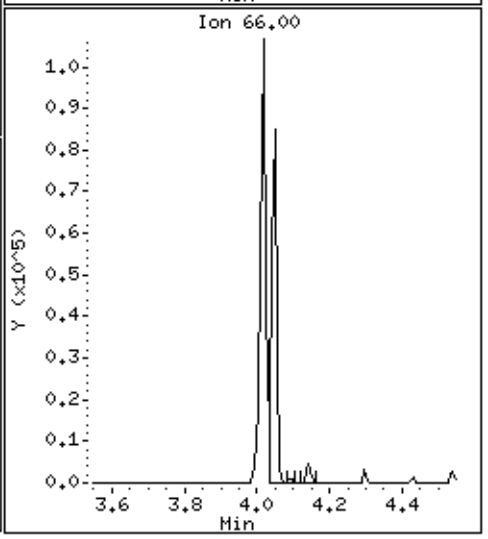


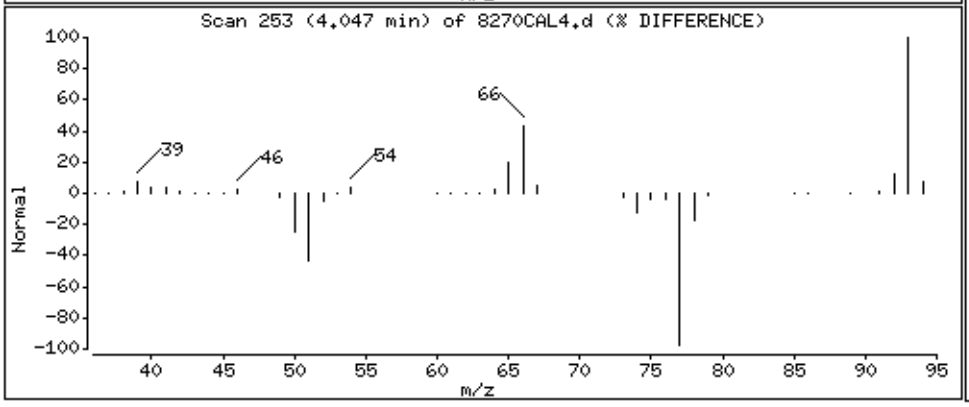












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

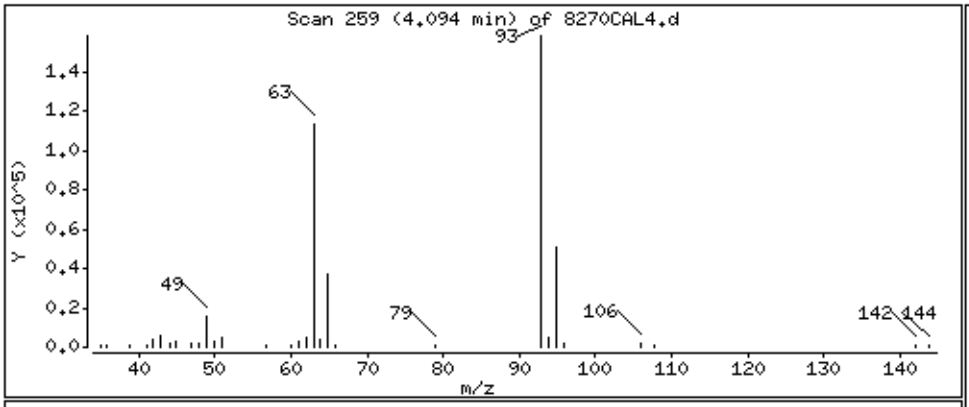
Operator: MJ

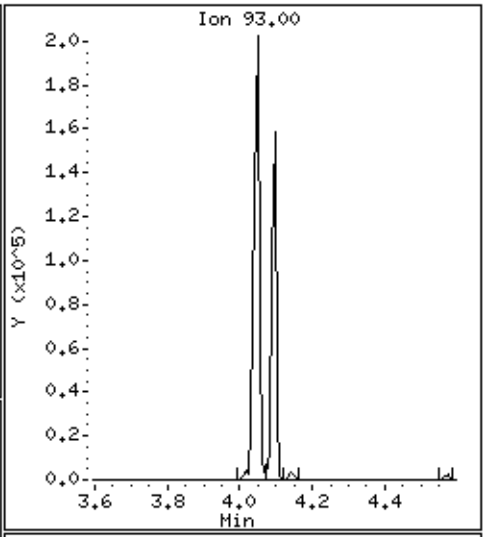
Column phase: HPMS-5

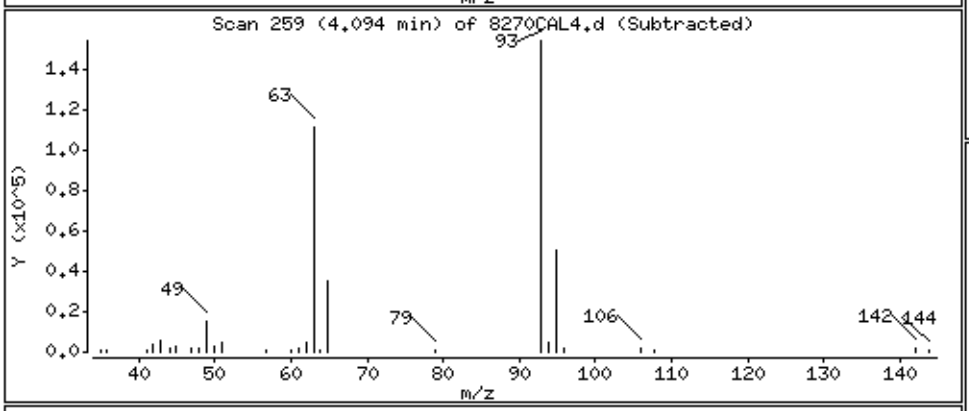
Column diameter: 0.25

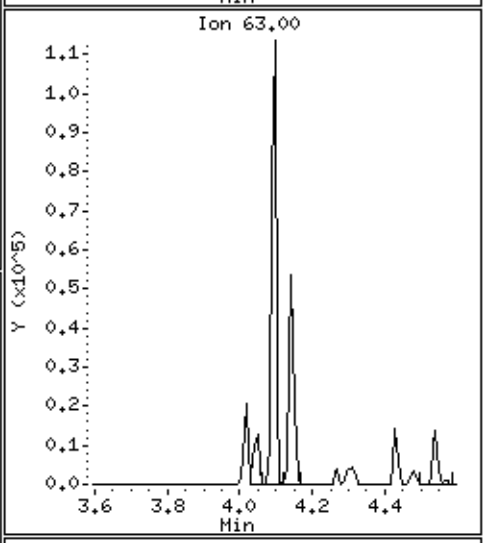
14 Bis(2-Chloroethyl)ether

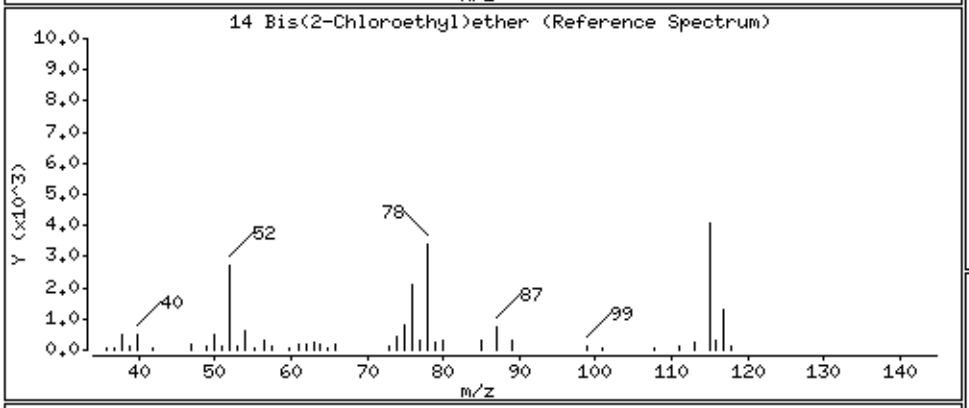
Concentration: 45.6 ug/kg

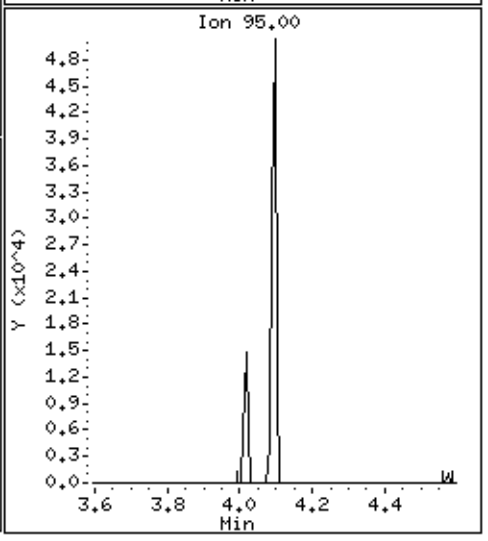


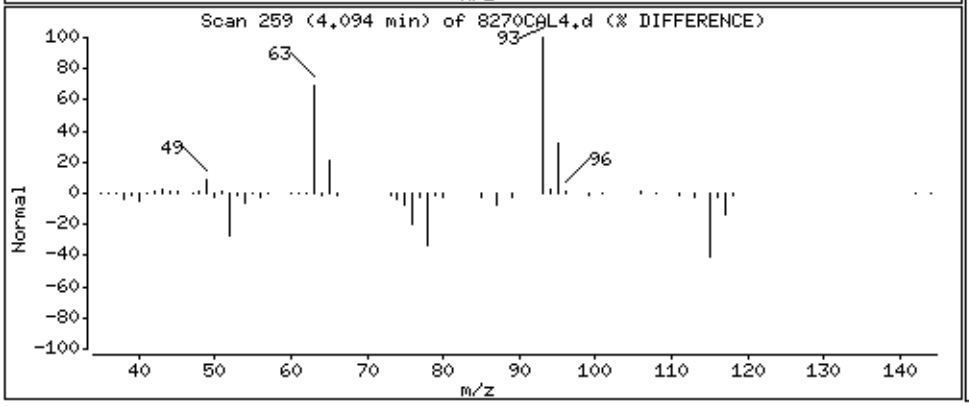












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

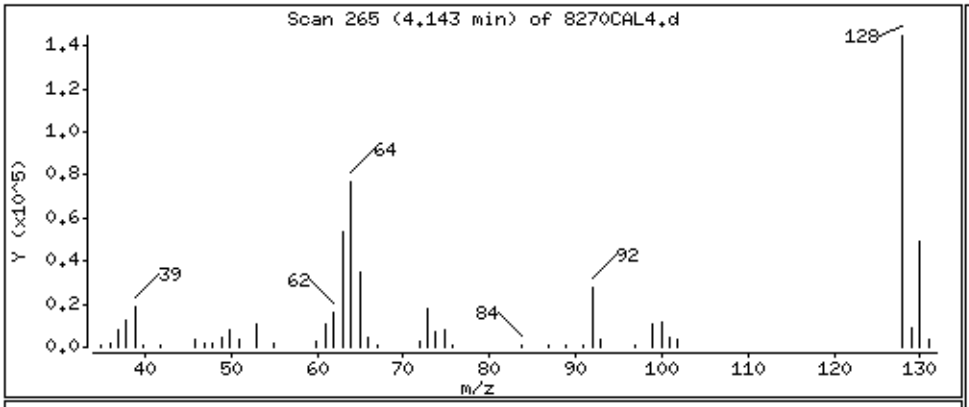
Operator: MJ

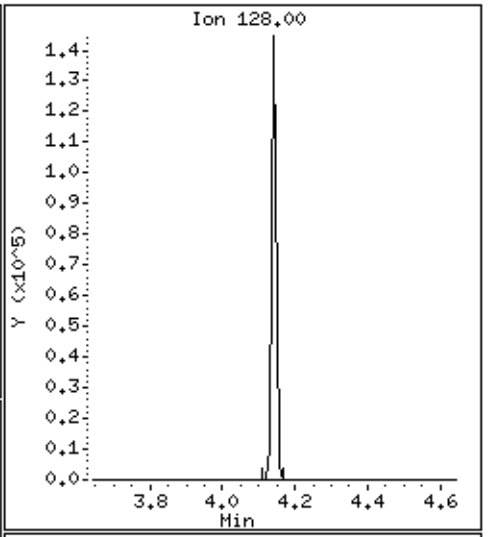
Column phase: HPMS-5

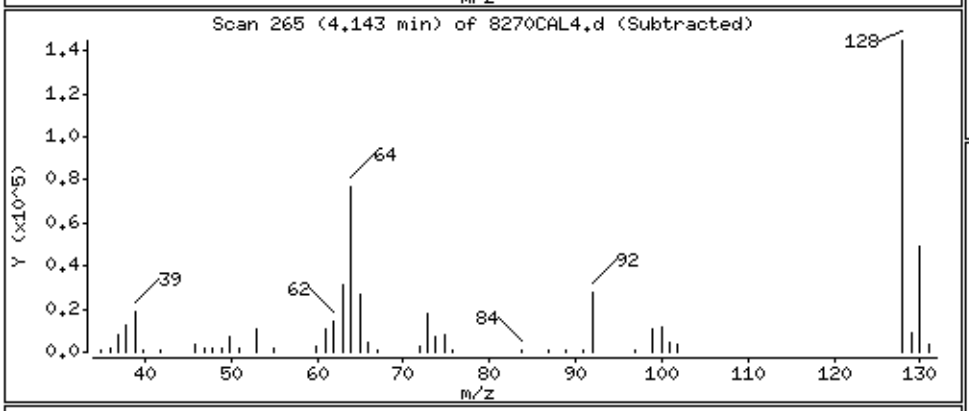
Column diameter: 0.25

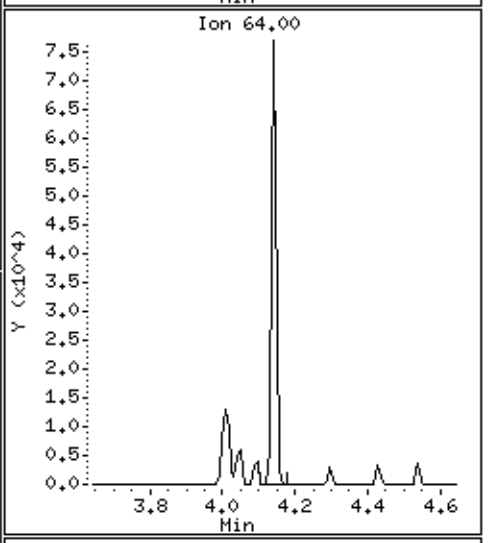
15 2-Chlorophenol

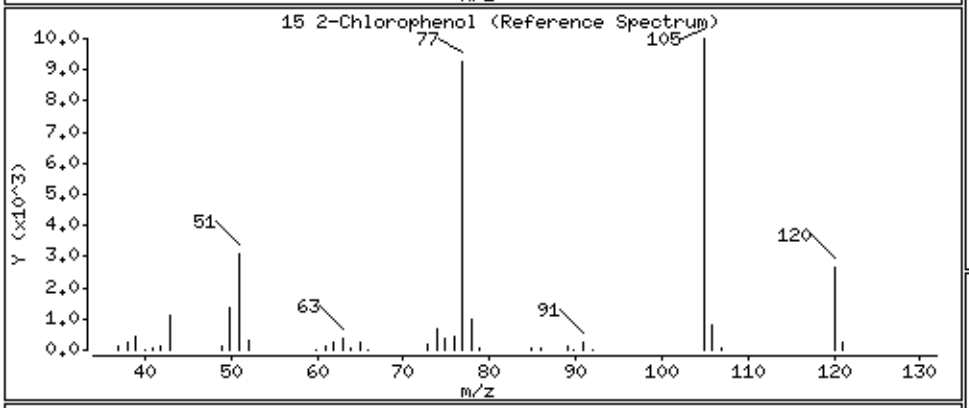
Concentration: 44.2 ug/kg

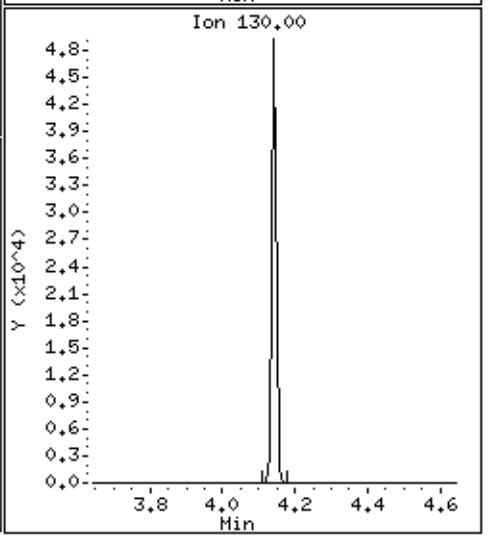


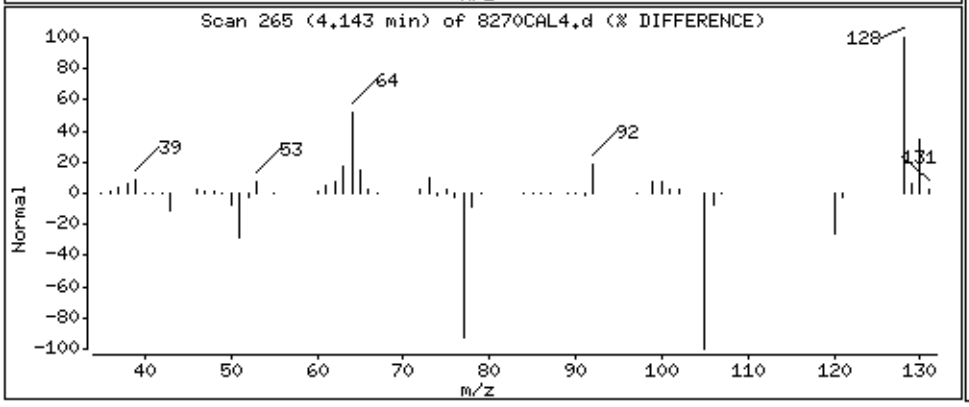












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

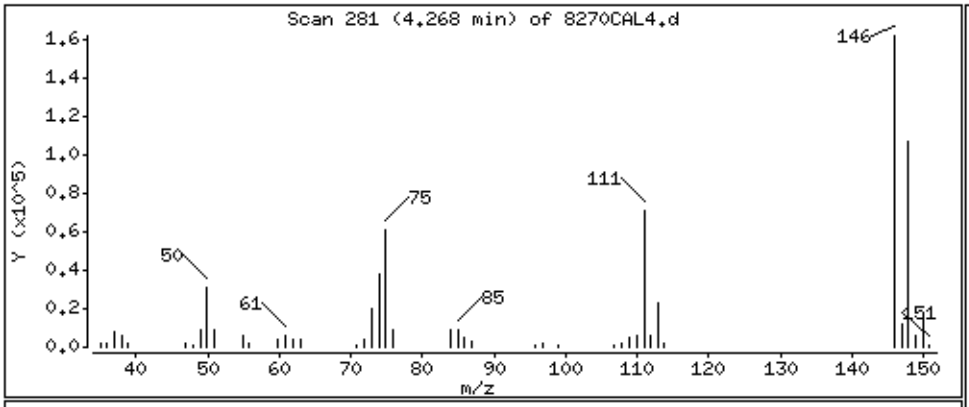
Operator: MJ

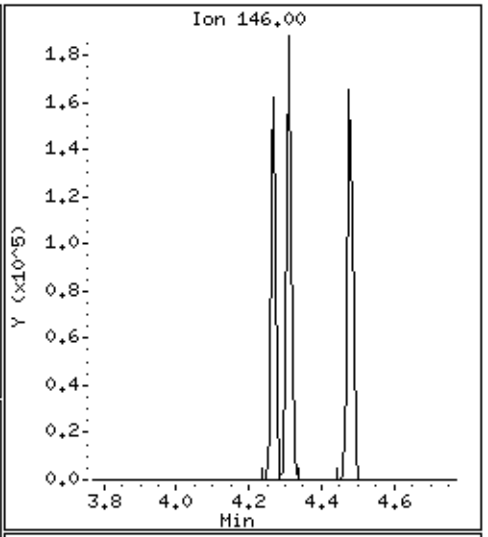
Column phase: HPMS-5

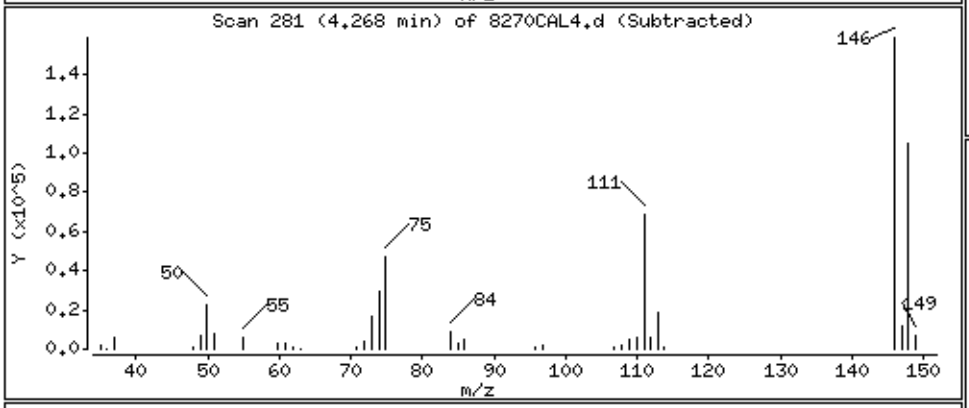
Column diameter: 0.25

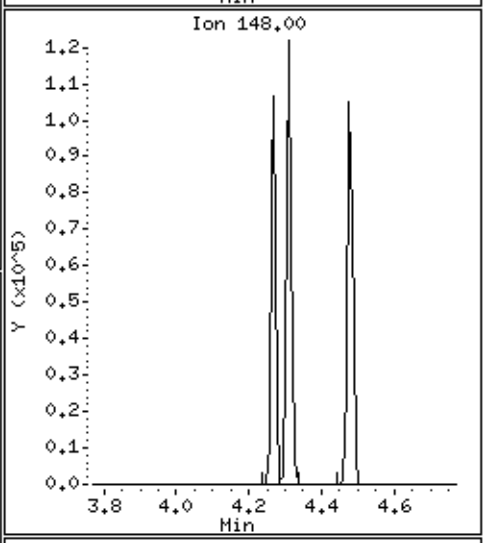
17 1,3-Dichlorobenzene

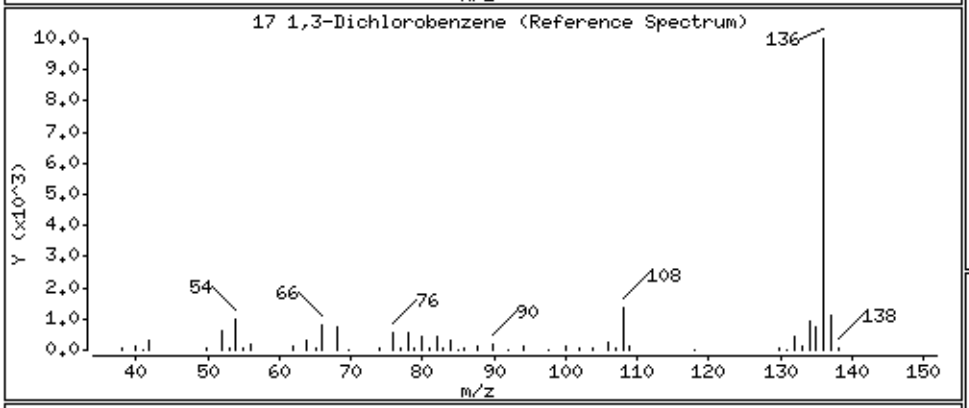
Concentration: 44.4 ug/kg

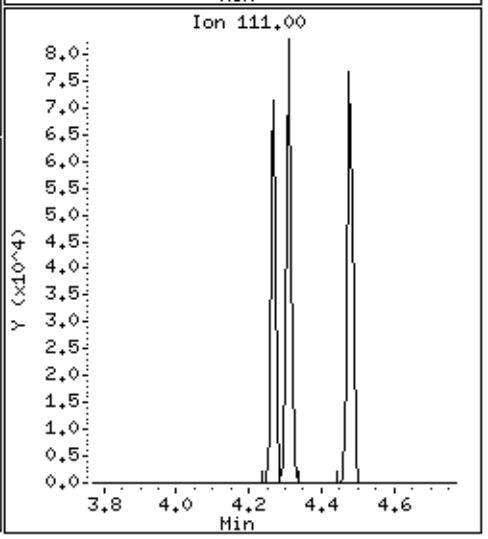


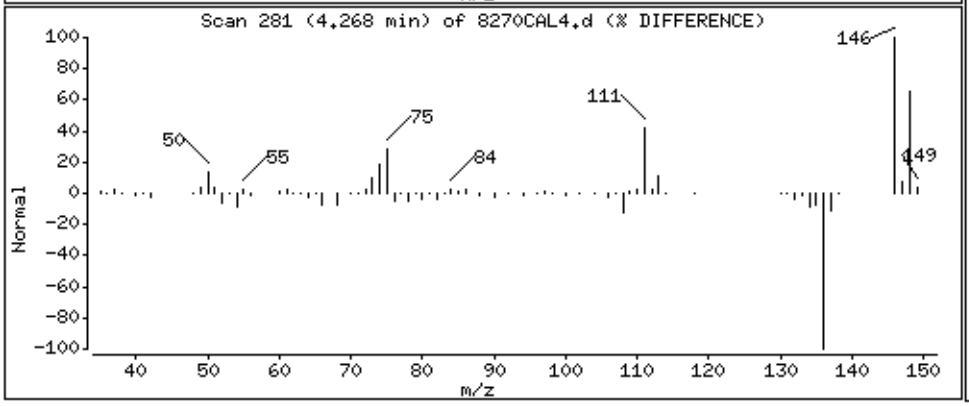












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

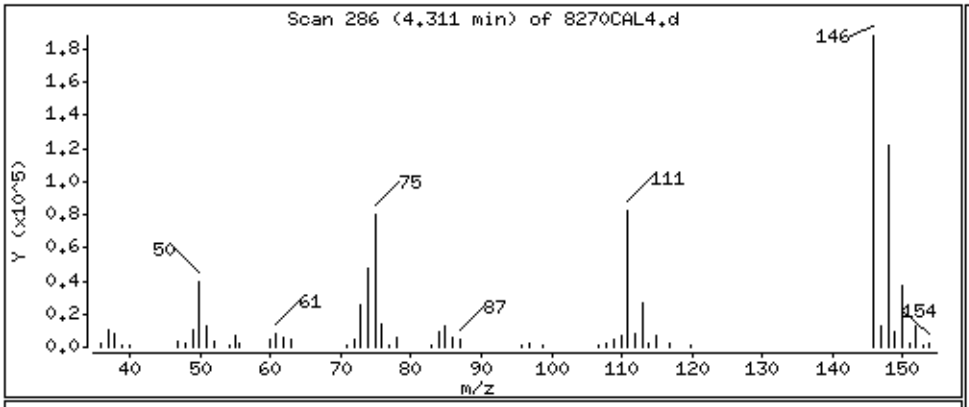
Operator: MJ

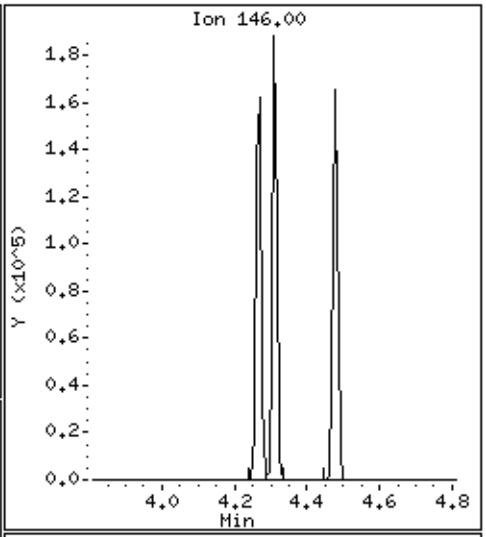
Column phase: HPMS-5

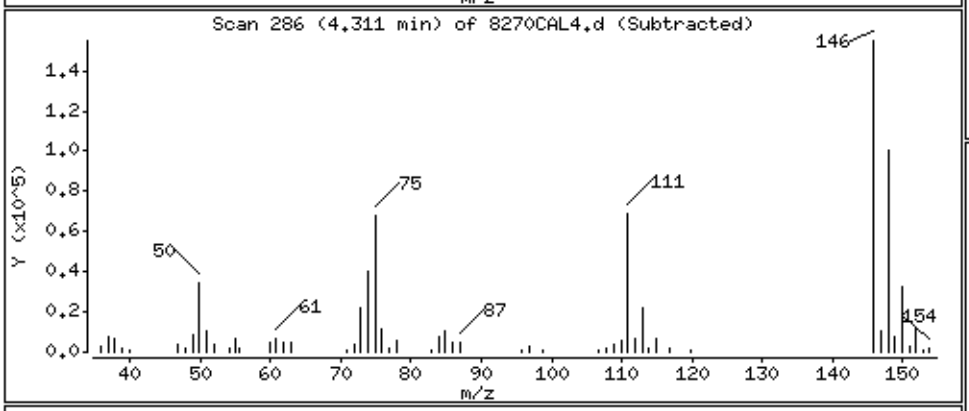
Column diameter: 0.25

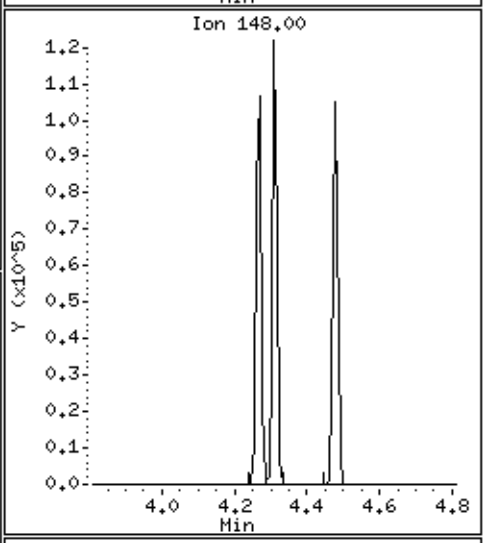
19 1,4-Dichlorobenzene

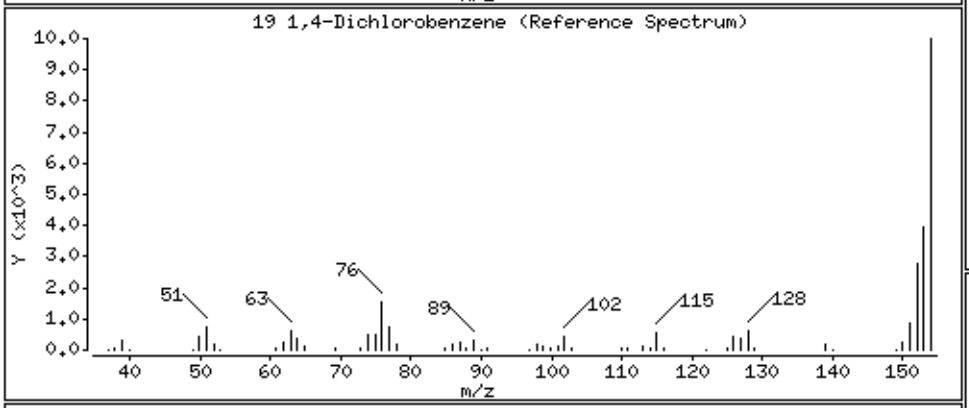
Concentration: 44.6 ug/kg

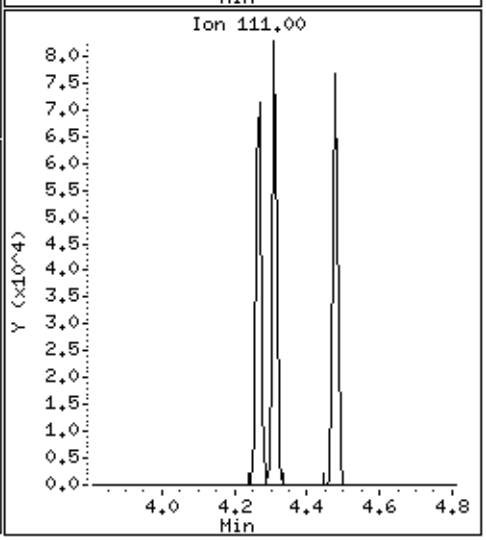


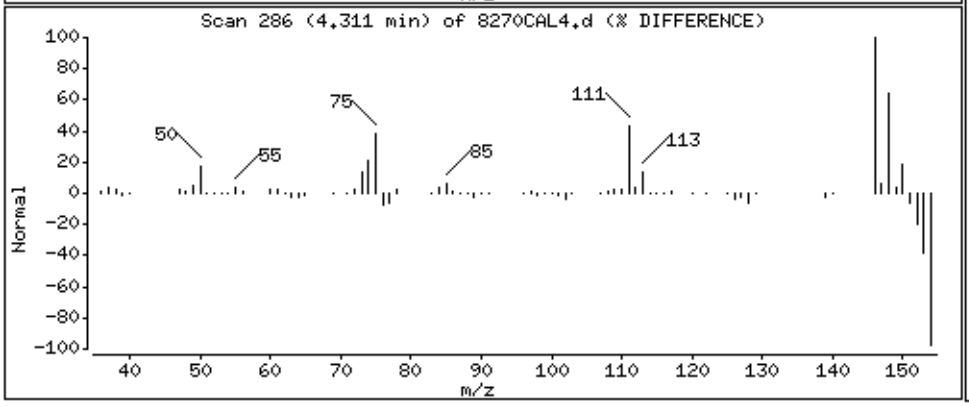












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

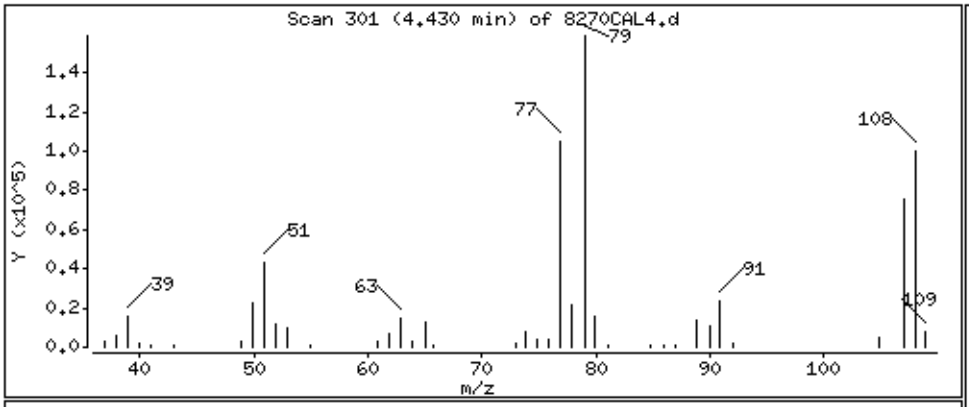
Operator: MJ

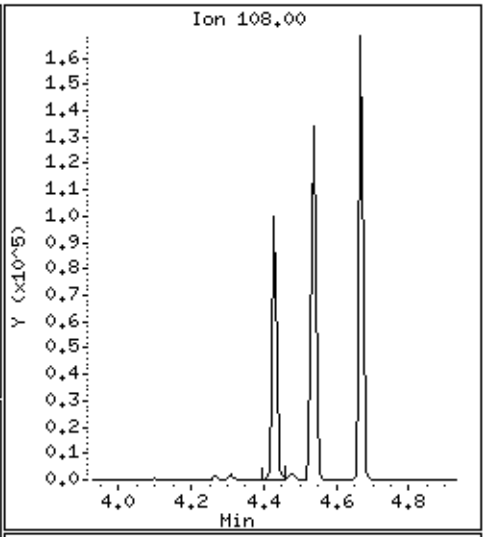
Column phase: HPMS-5

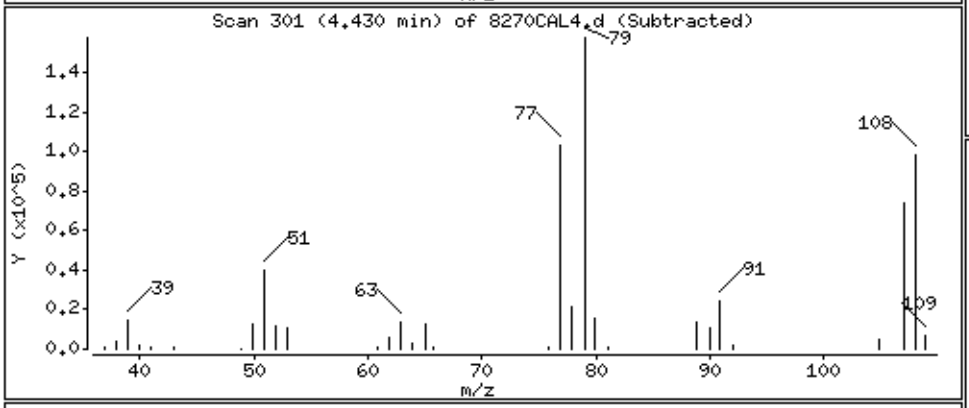
Column diameter: 0.25

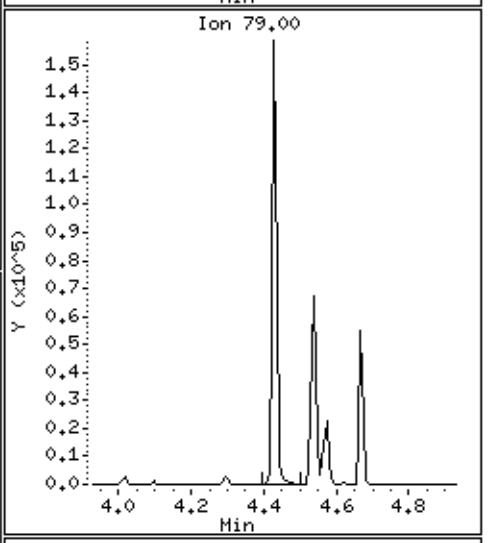
21 Benzyl alcohol

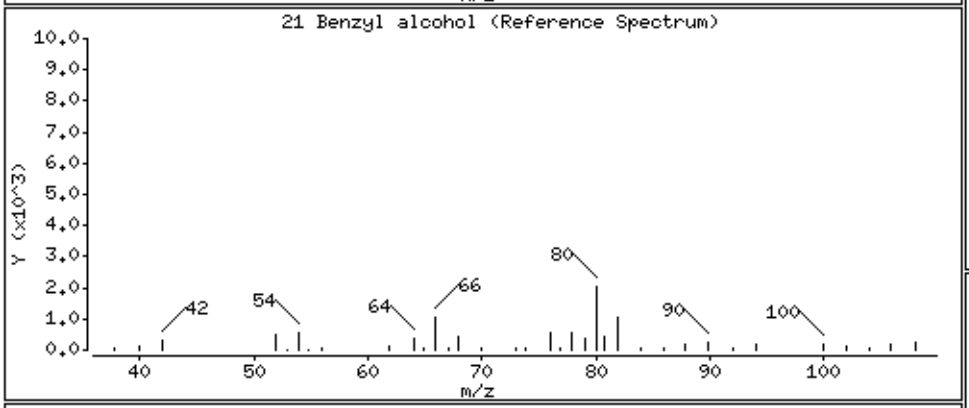
Concentration: 42.7 ug/kg

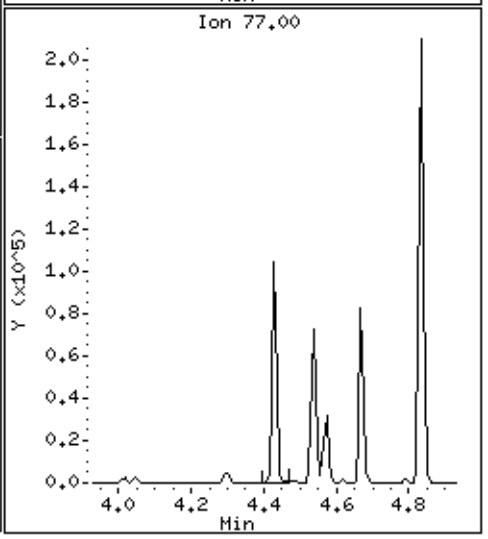


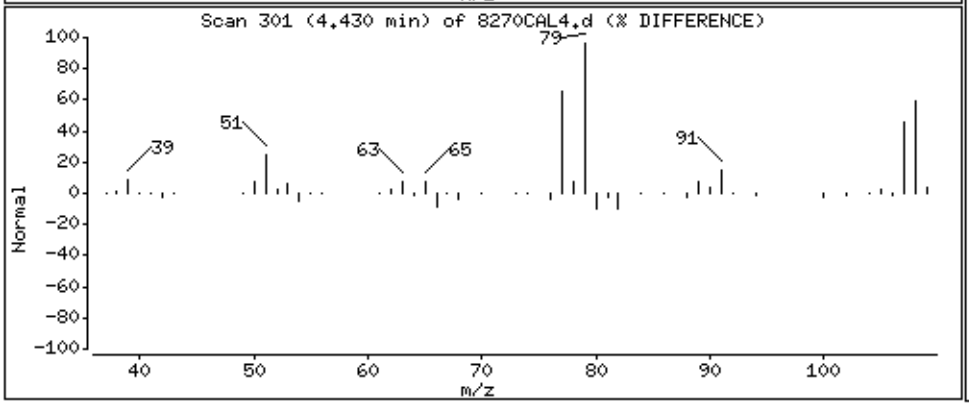












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

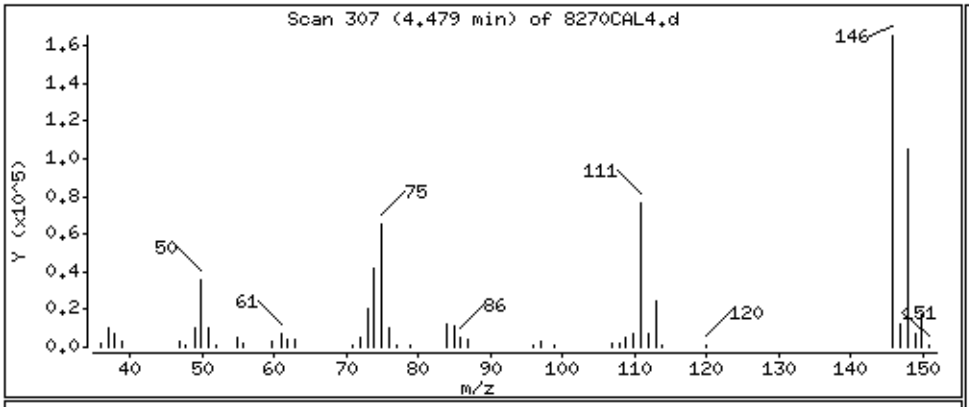
Operator: MJ

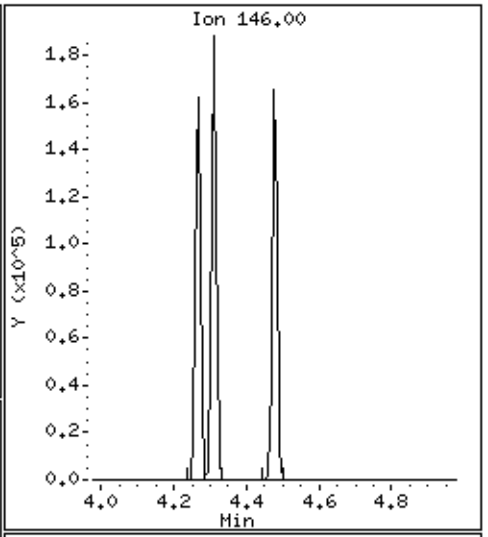
Column phase: HPMS-5

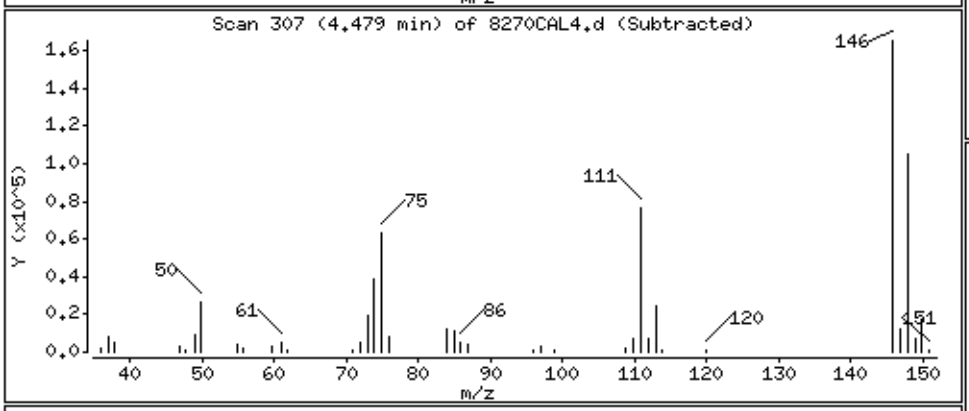
Column diameter: 0.25

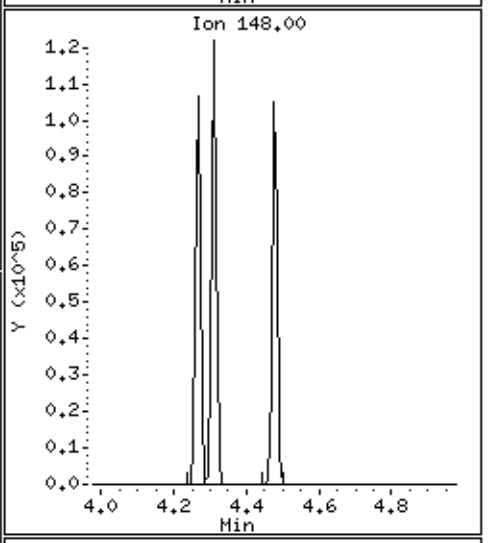
20 1,2-Dichlorobenzene

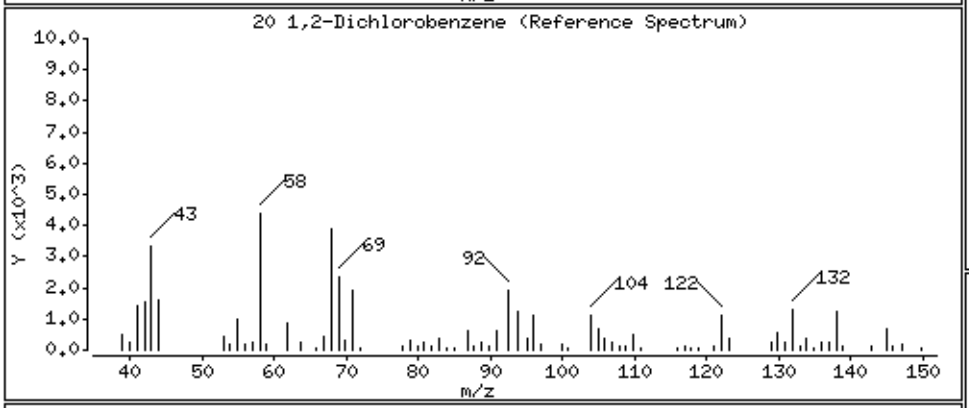
Concentration: 44.2 ug/kg

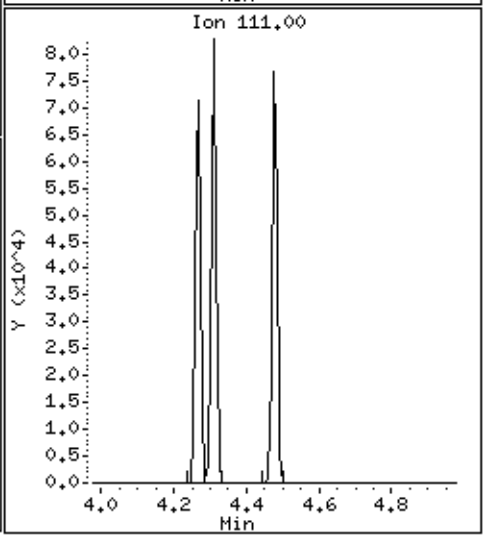


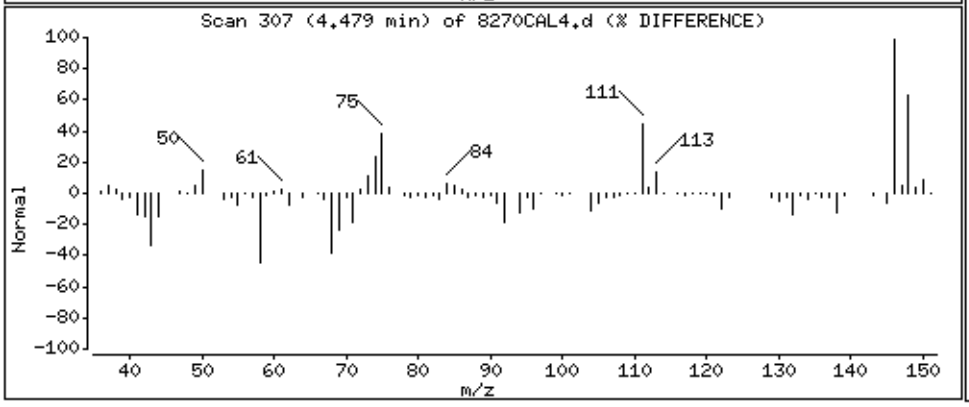












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

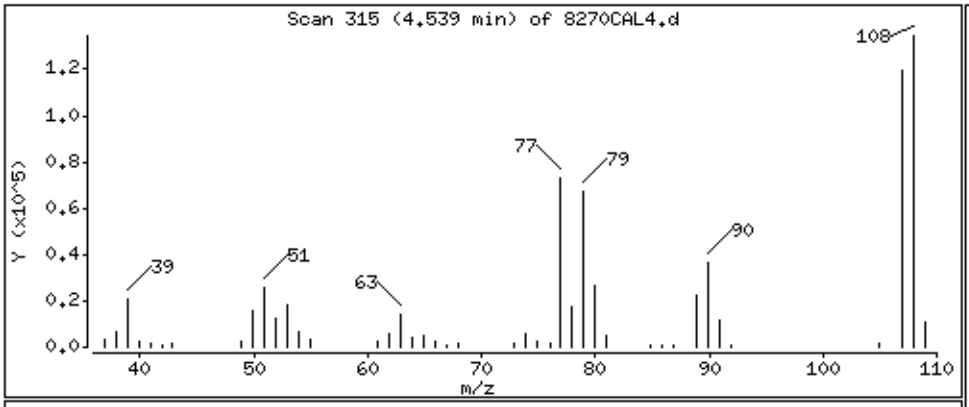
Client ID: 8270CAL4 Instrument: smsd04.i

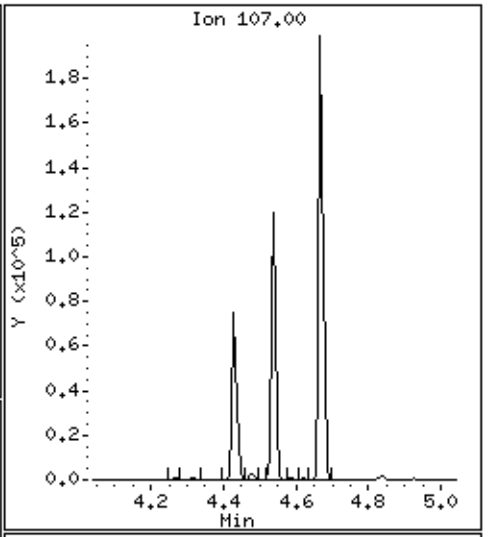
Sample Info: 47766

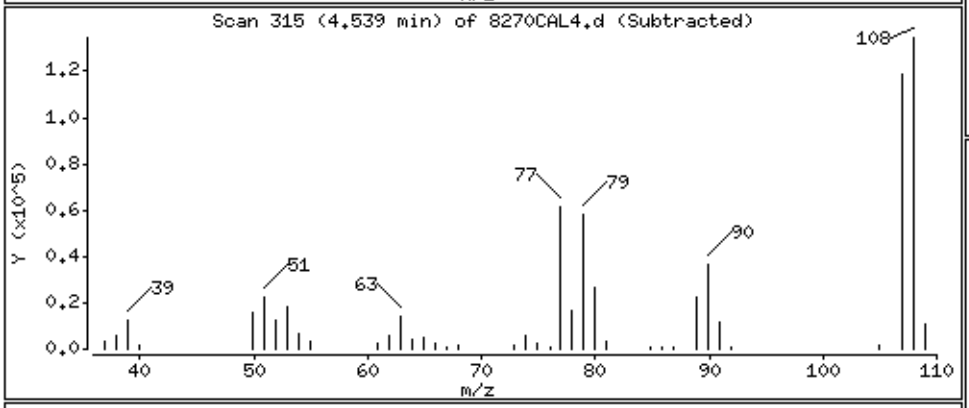
Operator: MJ

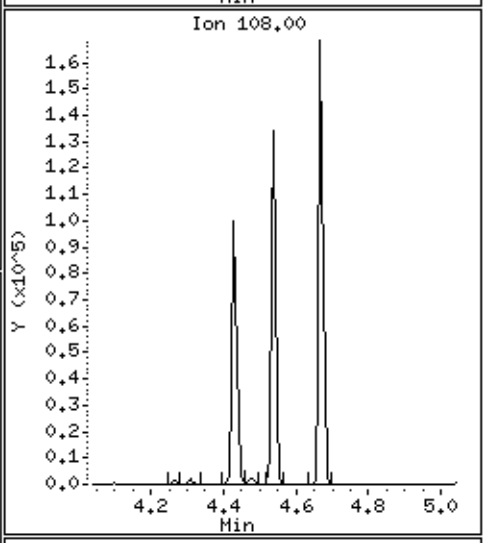
Column phase: HPMS-5 Column diameter: 0.25

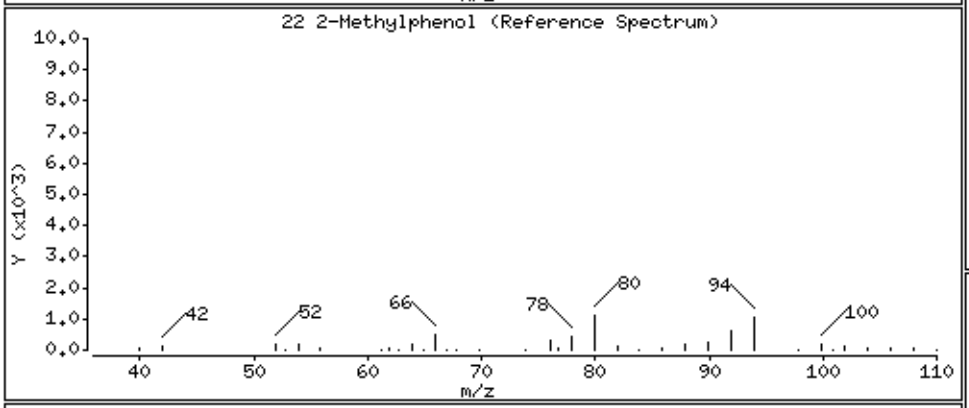
22 2-Methylphenol Concentration: 43.4 ug/kg

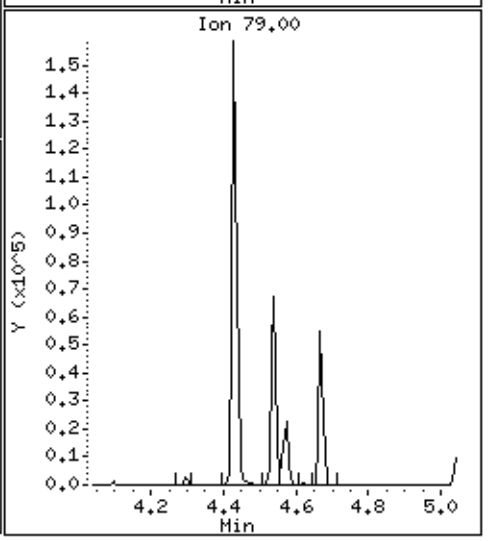


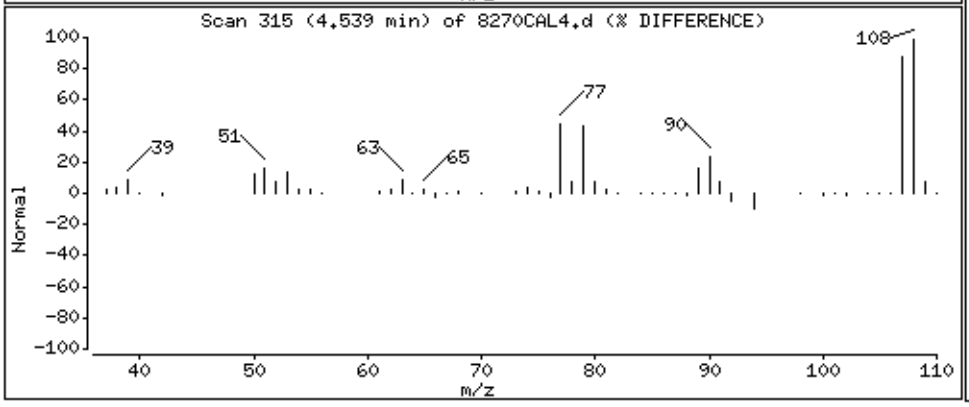












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

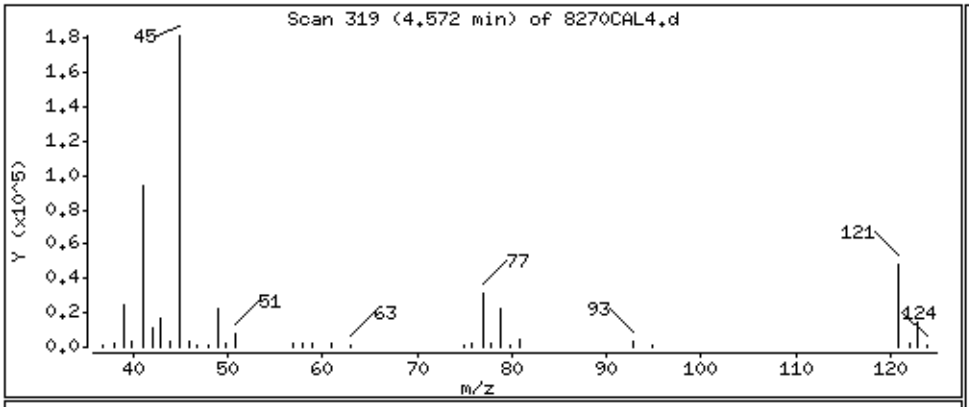
Operator: MJ

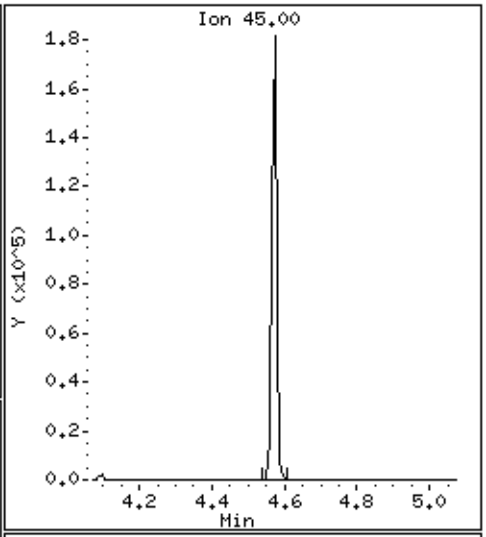
Column phase: HPMS-5

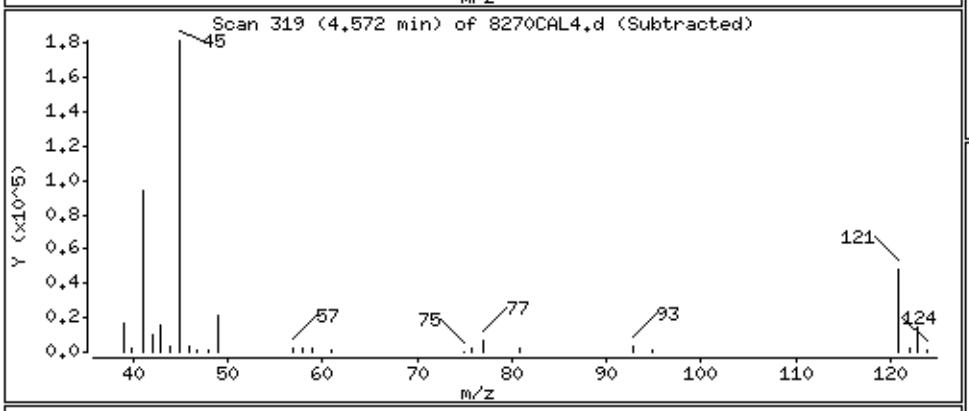
Column diameter: 0.25

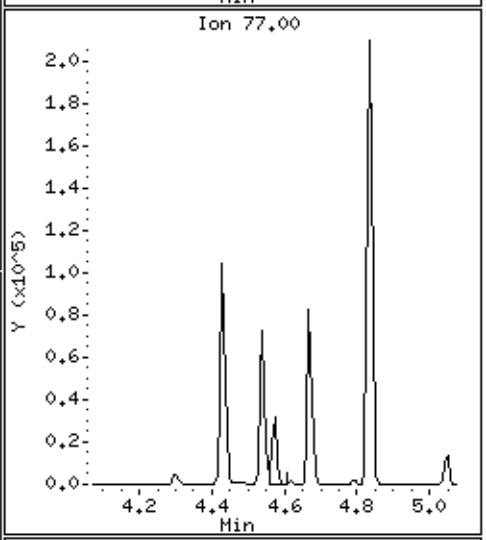
23 2,2'-oxybis(1-chloropropane)

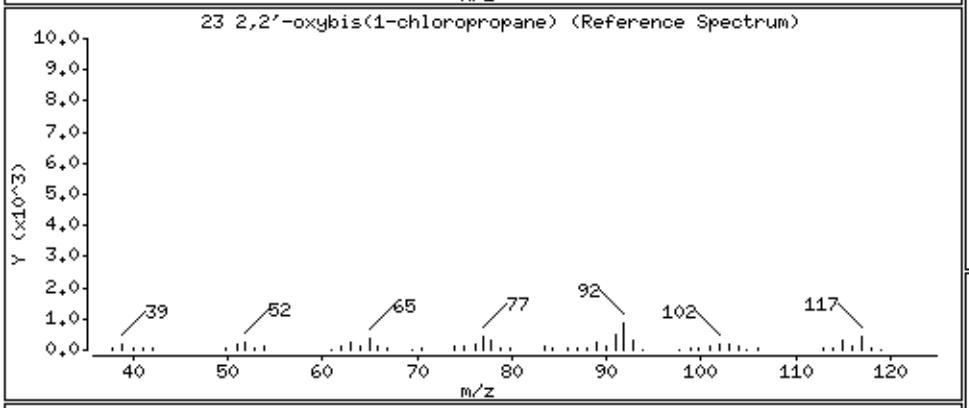
Concentration: 44.9 ug/kg

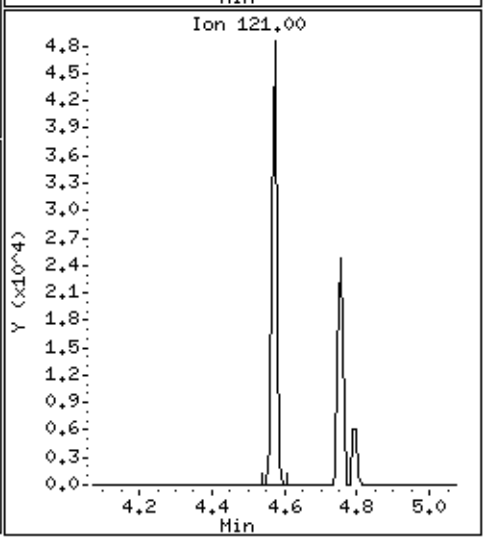


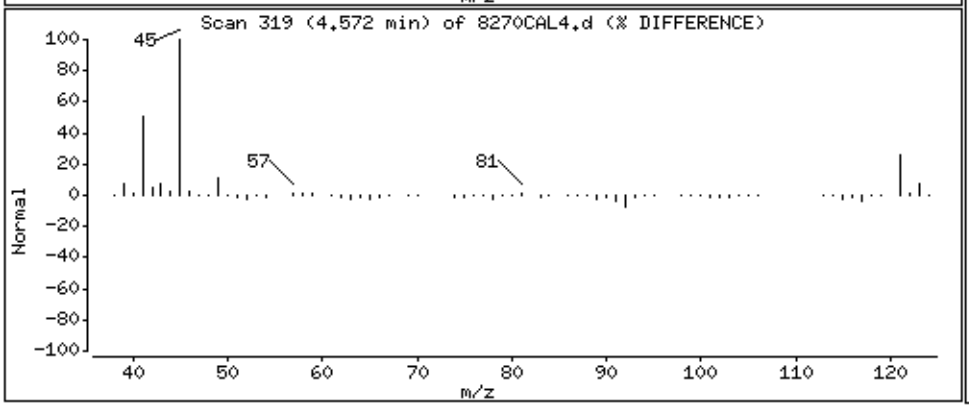












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

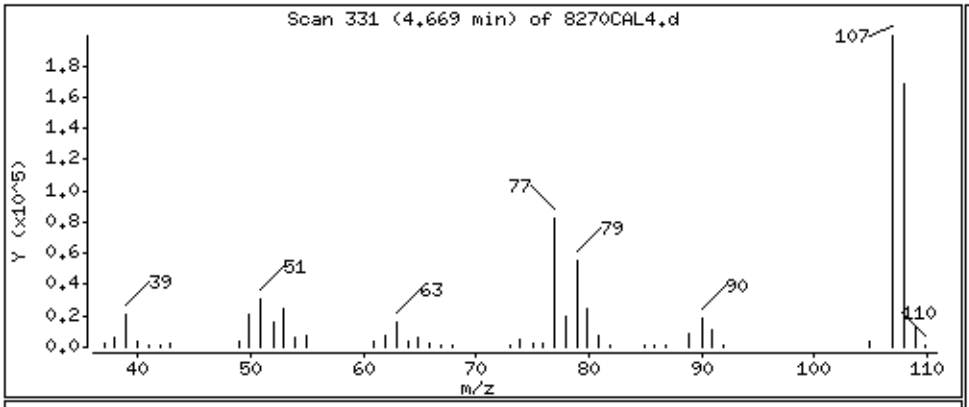
Client ID: 8270CAL4 Instrument: smsd04.i

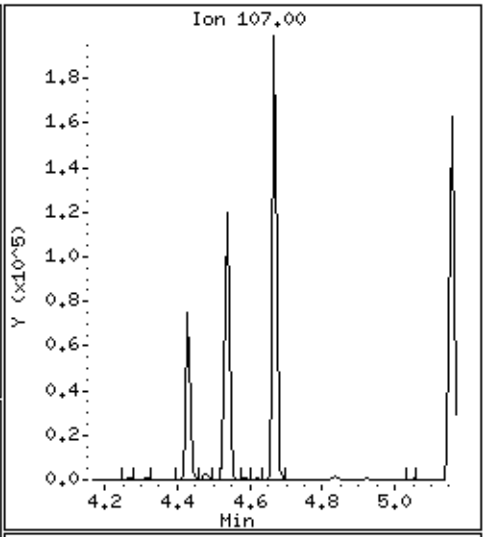
Sample Info: 47766

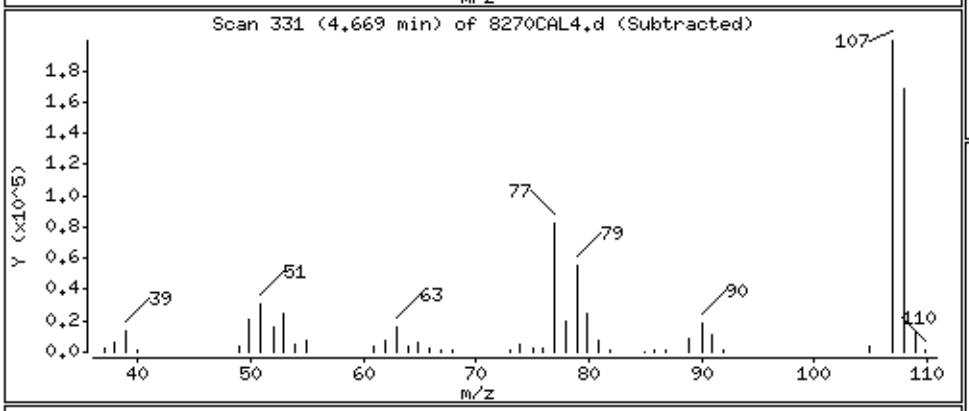
Operator: MJ

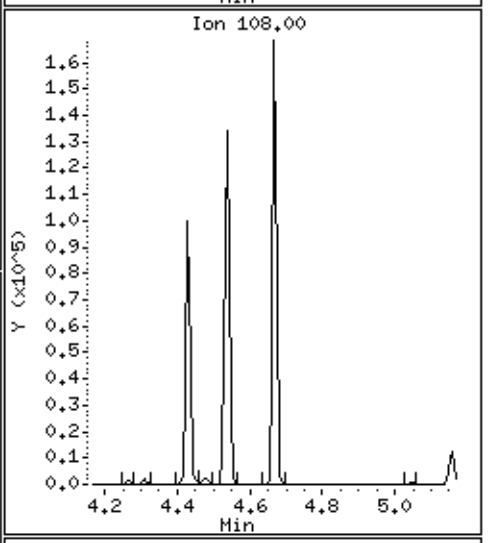
Column phase: HPMS-5 Column diameter: 0.25

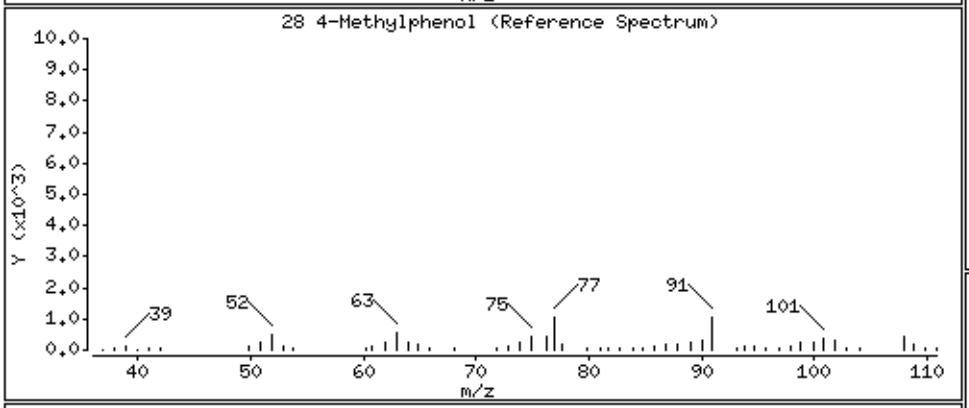
28 4-Methylphenol Concentration: 43.0 ug/kg

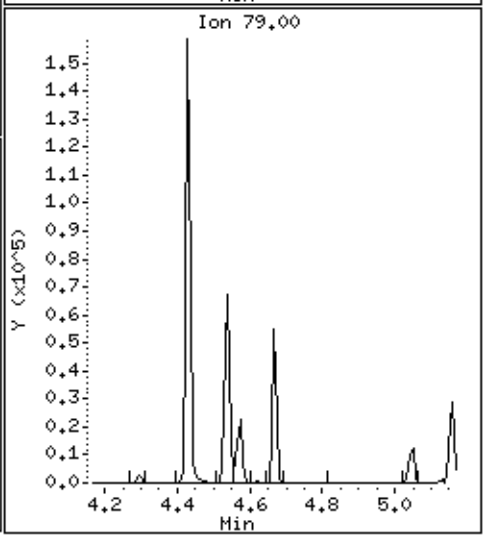


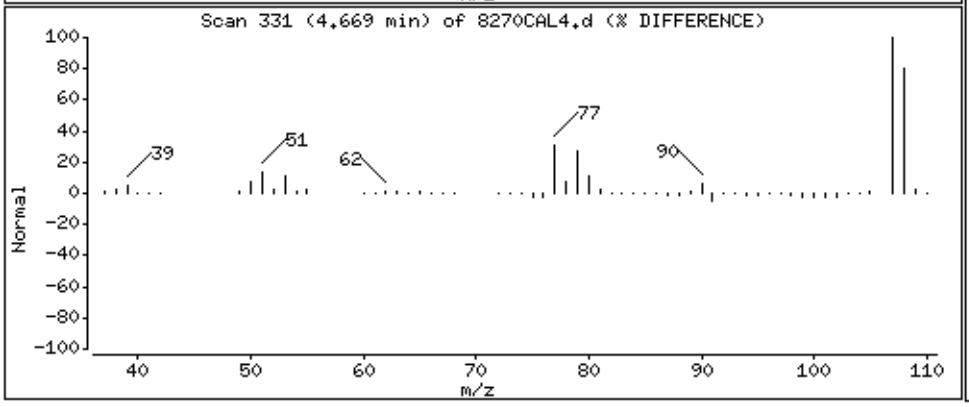












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

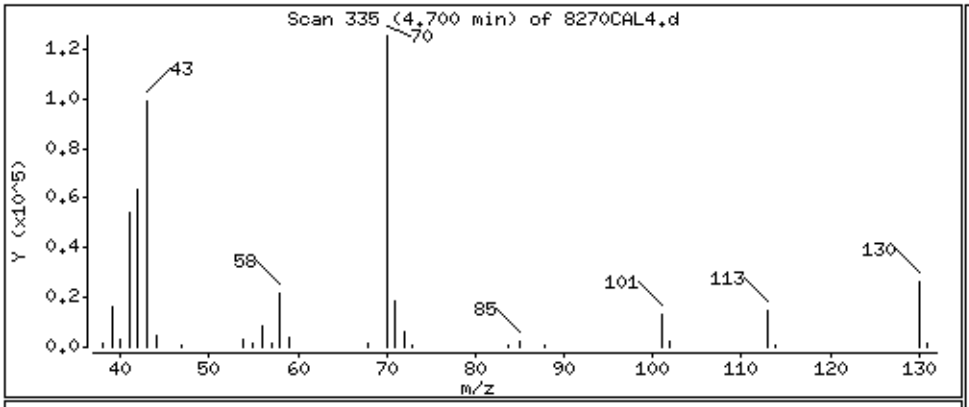
Client ID: 8270CAL4 Instrument: smsd04.i

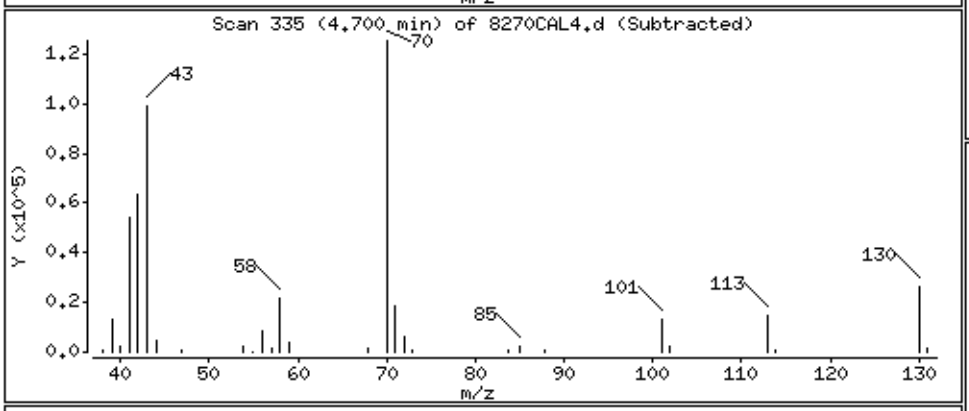
Sample Info: 47766

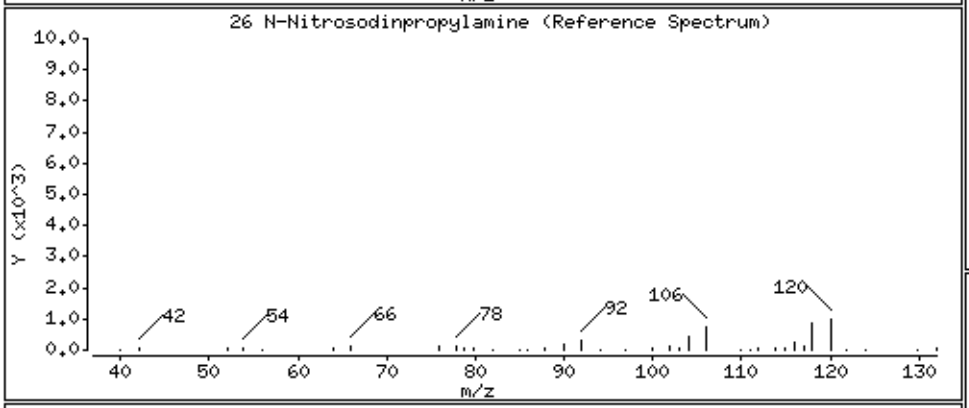
Operator: MJ

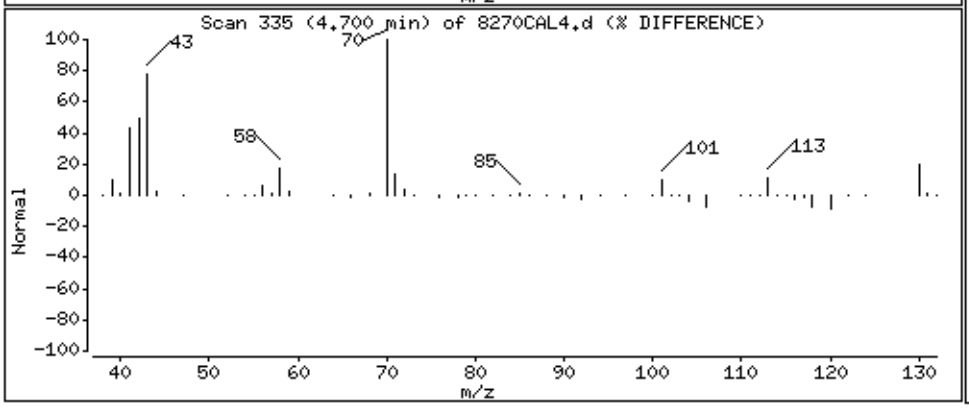
Column phase: HPMS-5 Column diameter: 0.25

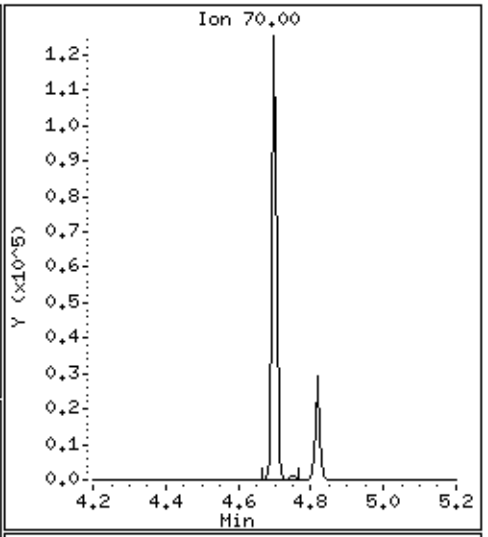
26 N-Nitrosodinpropylamine Concentration: 44.2 ug/kg

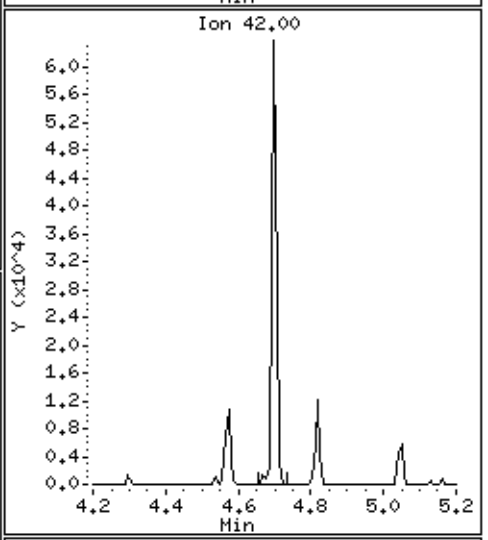


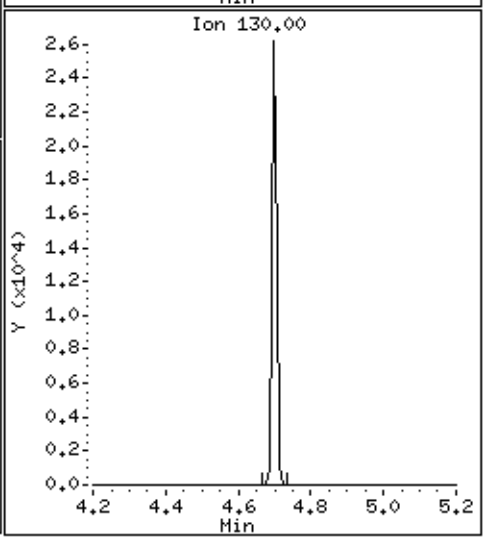












Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

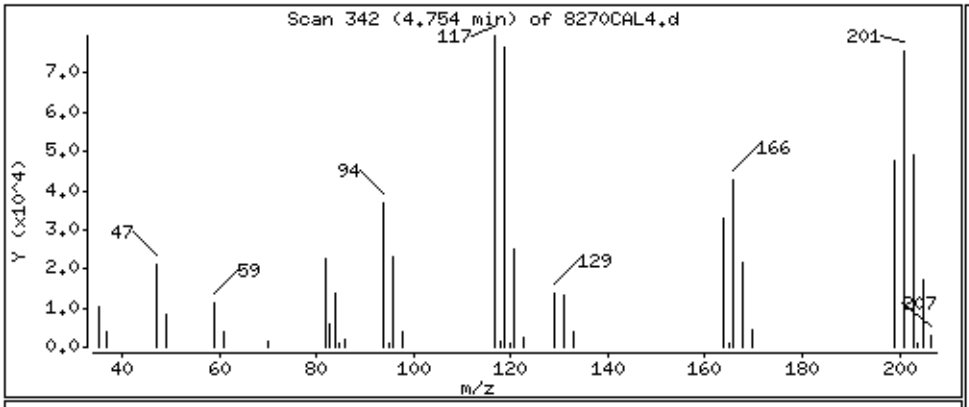
Operator: MJ

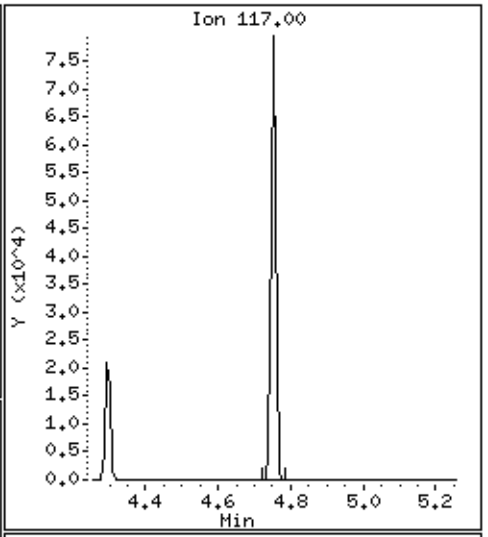
Column phase: HPMS-5

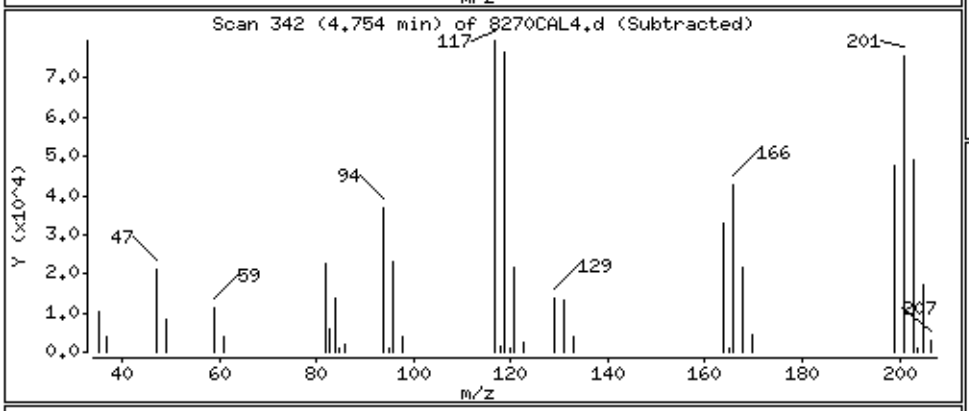
Column diameter: 0.25

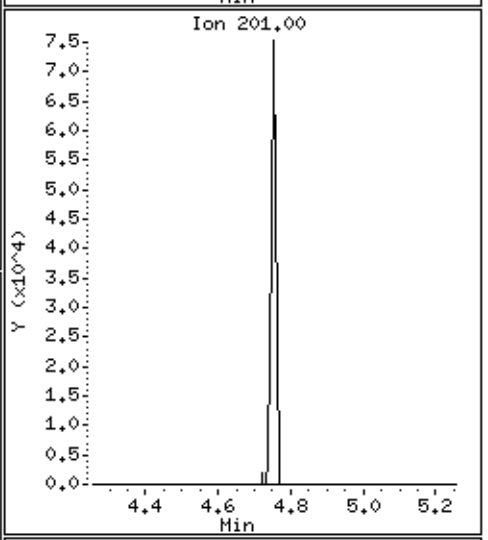
30 Hexachloroethane

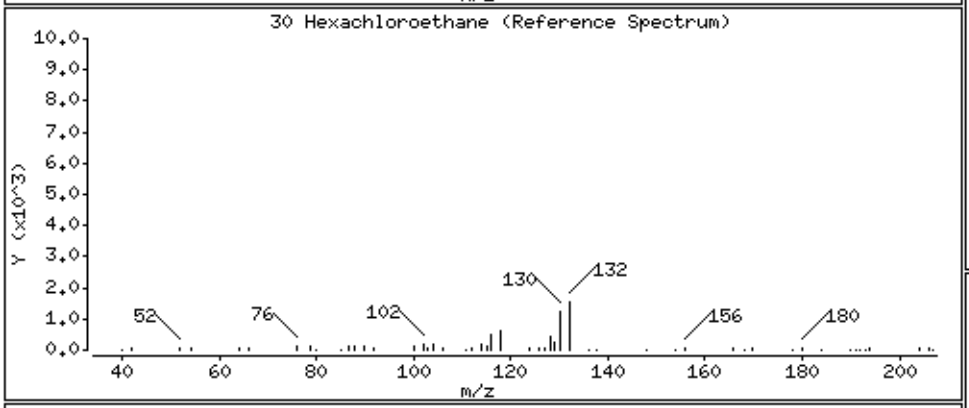
Concentration: 45.0 ug/kg

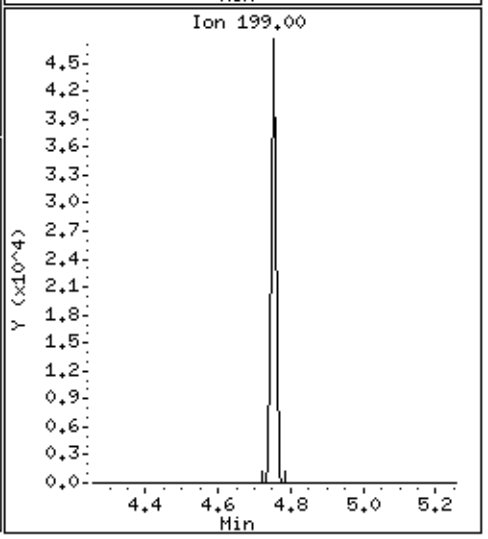


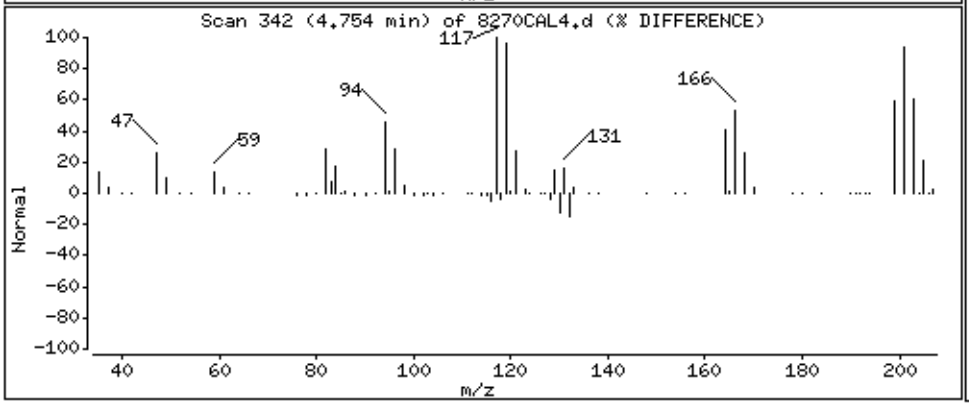












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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

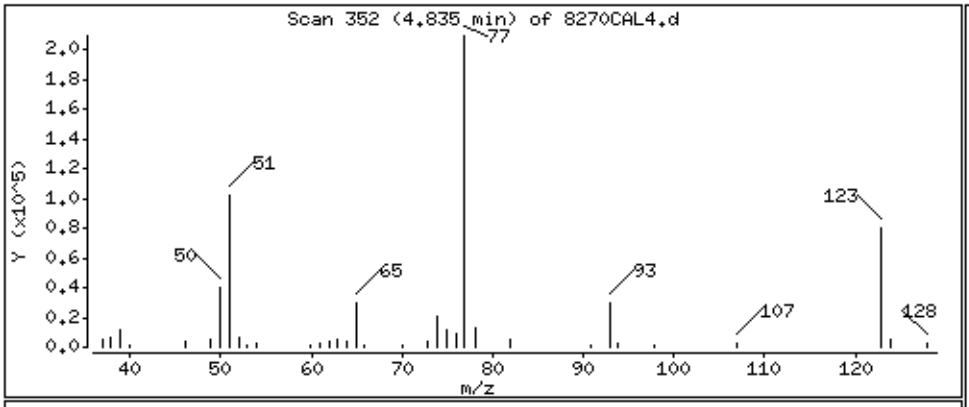
Operator: MJ

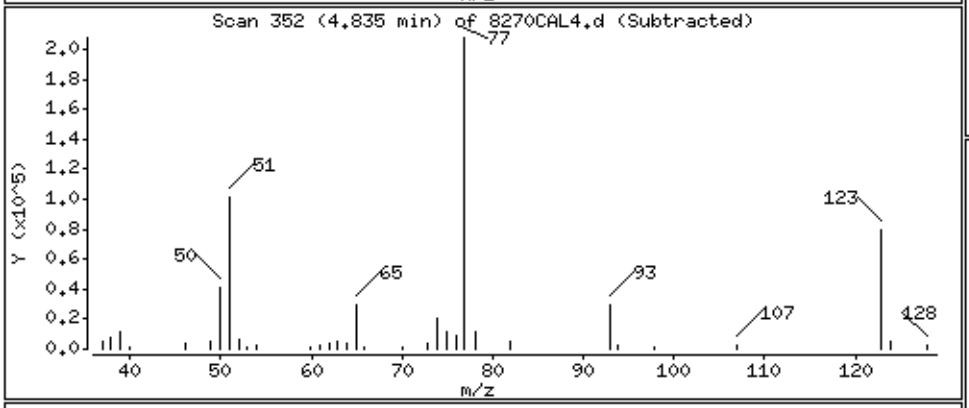
Column phase: HPMS-5

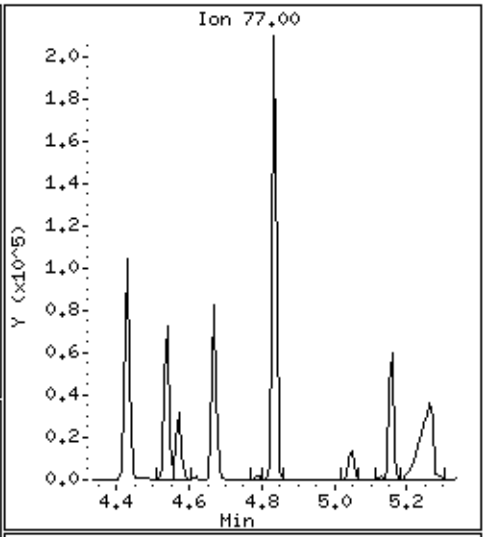
Column diameter: 0.25

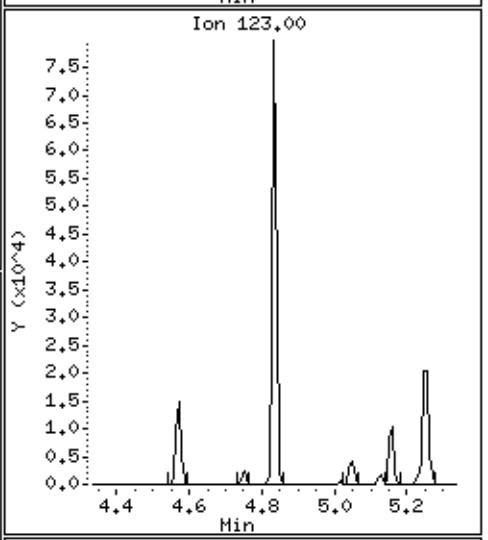
32 Nitrobenzene

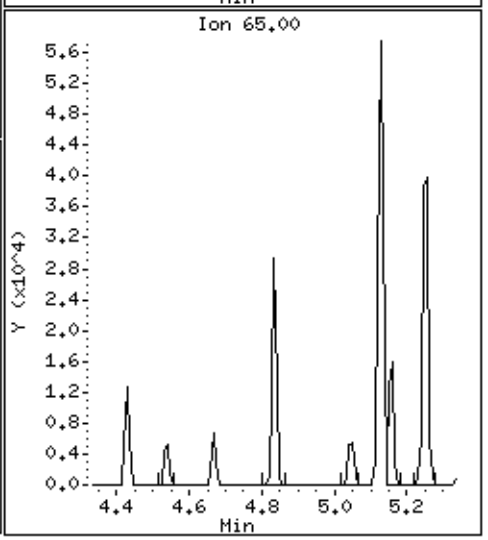
Concentration: 45.5 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

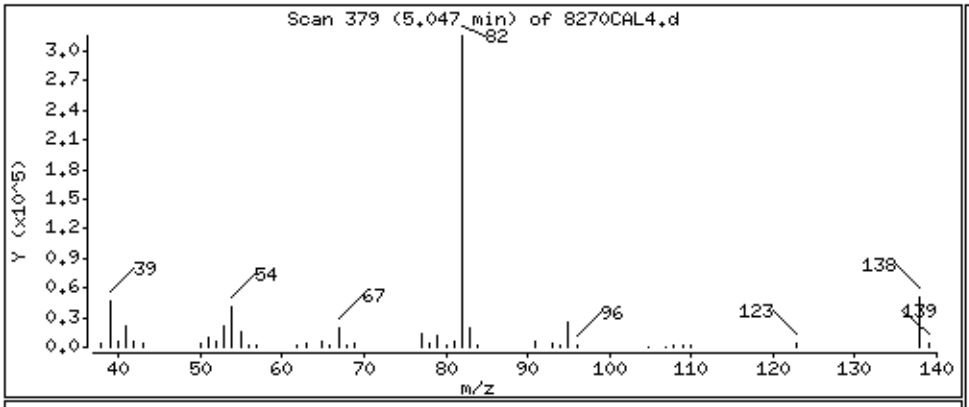
Operator: MJ

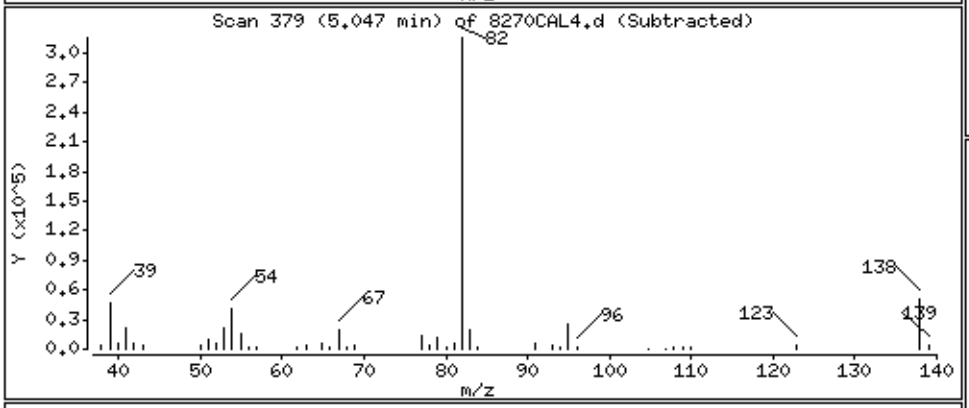
Column phase: HPMS-5

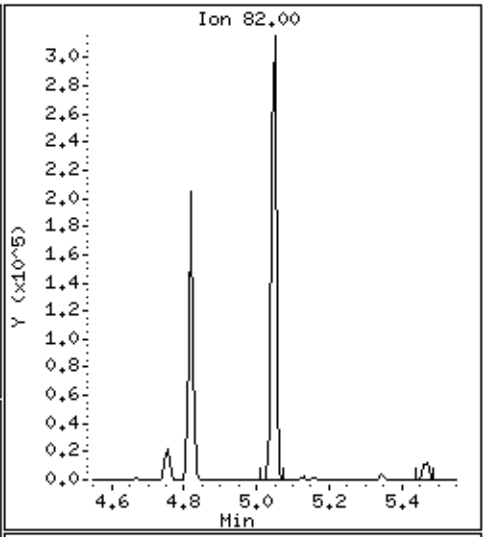
Column diameter: 0.25

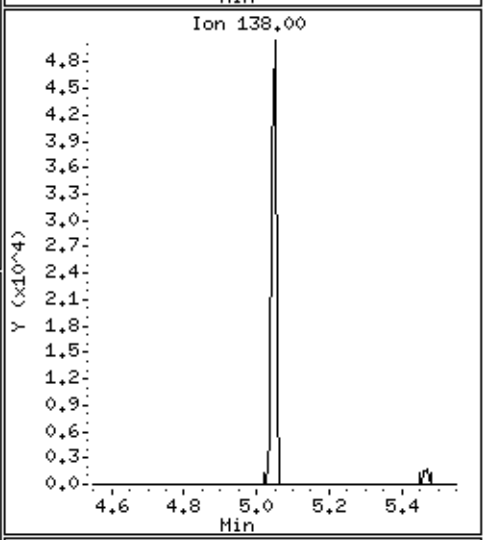
34 Isophorone

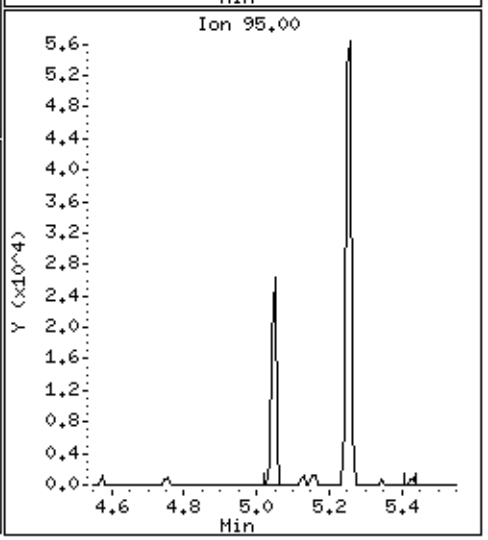
Concentration: 44.4 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

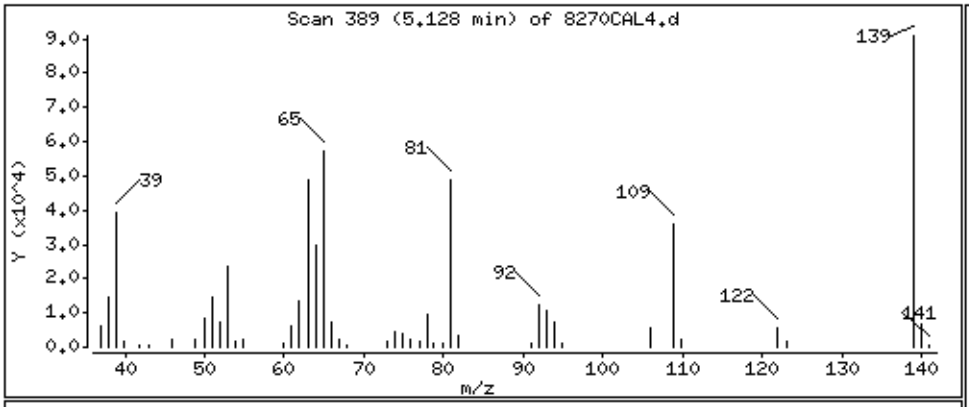
Operator: MJ

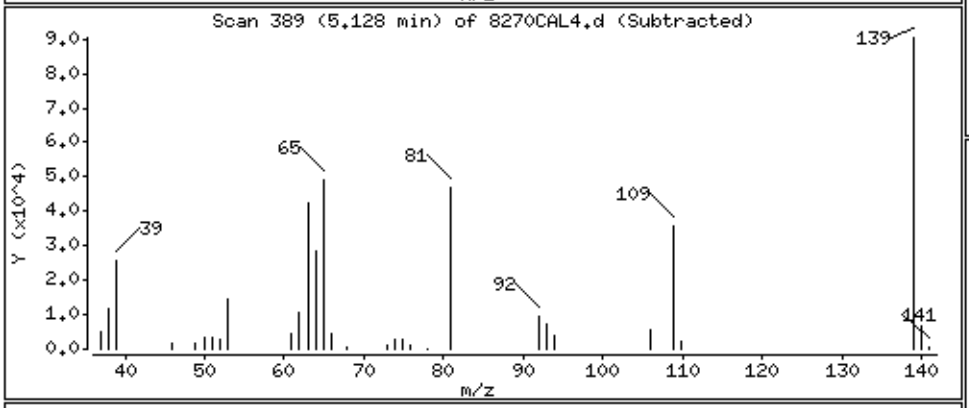
Column phase: HPMS-5

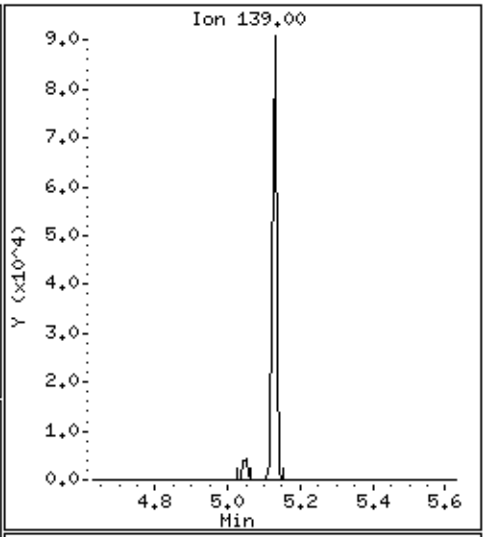
Column diameter: 0.25

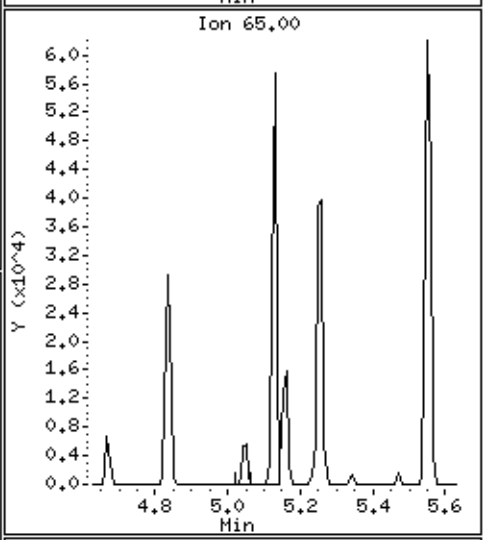
35 2-Nitrophenol

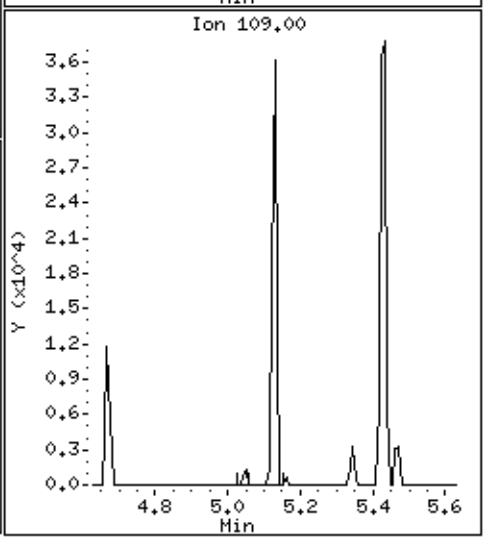
Concentration: 44.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

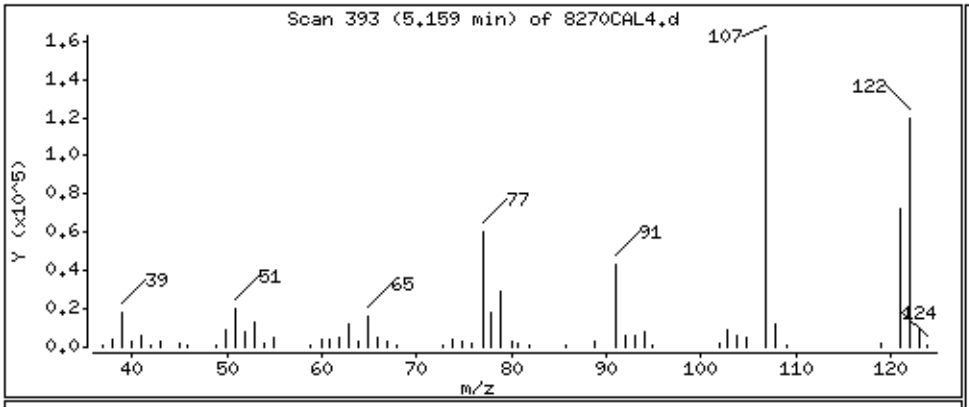
Client ID: 8270CAL4 Instrument: smsd04.i

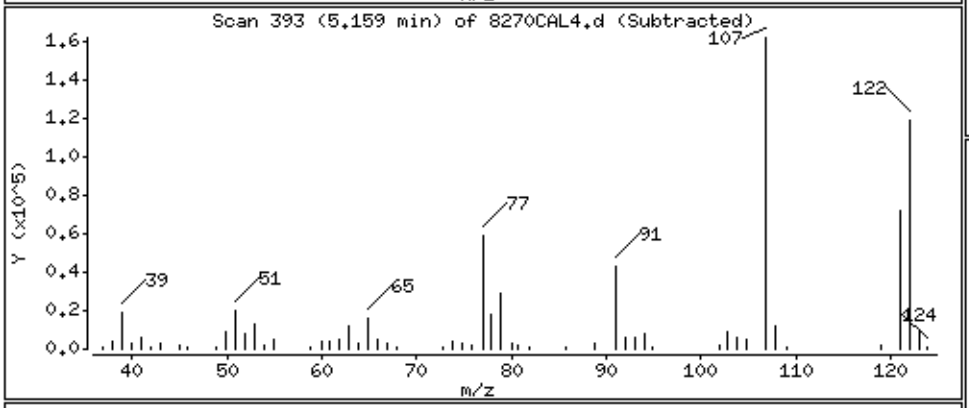
Sample Info: 47766

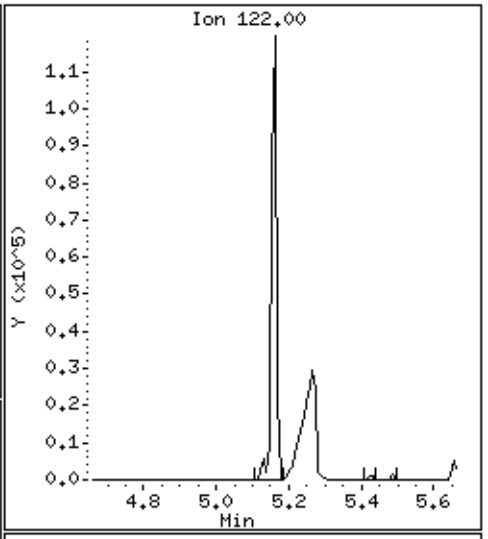
Operator: MJ

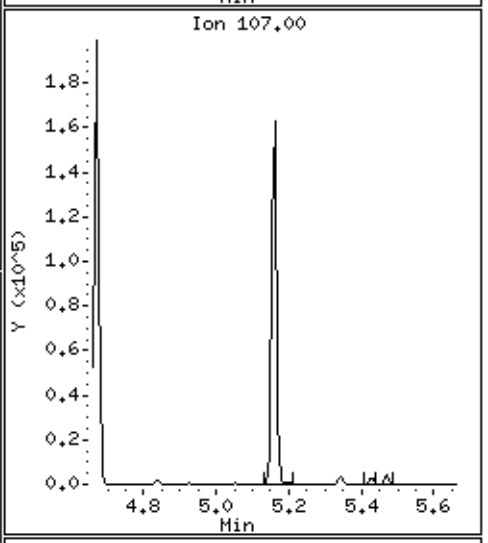
Column phase: HPMS-5 Column diameter: 0.25

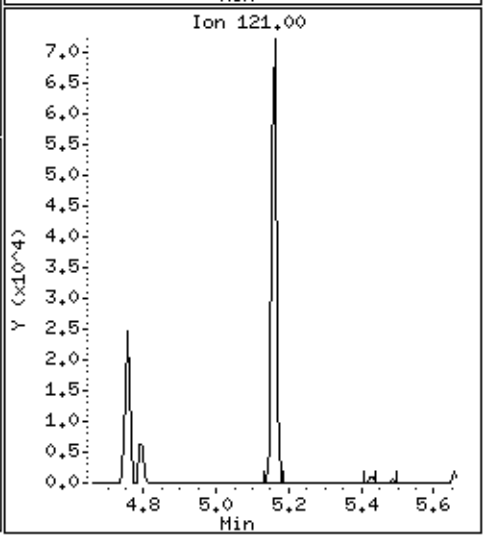
36 2,4-Dimethylphenol Concentration: 45.6 ug/kg











Date : 14-NOV-2012 23:43

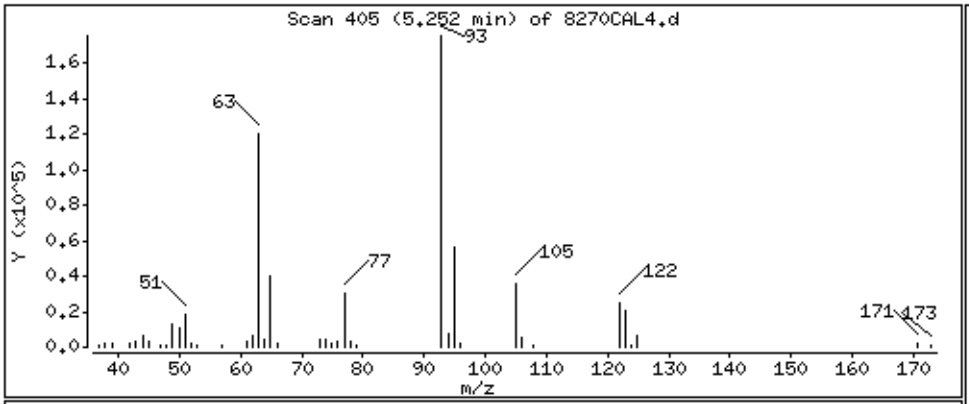
Client ID: 8270CAL4 Instrument: smsd04.i

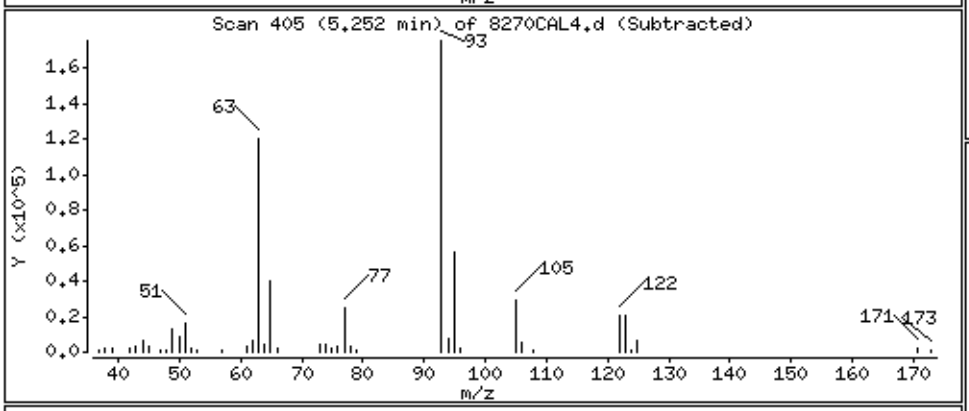
Sample Info: 47766

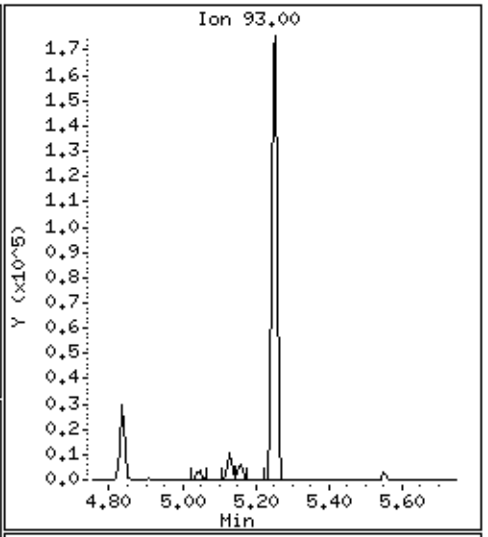
Operator: MJ

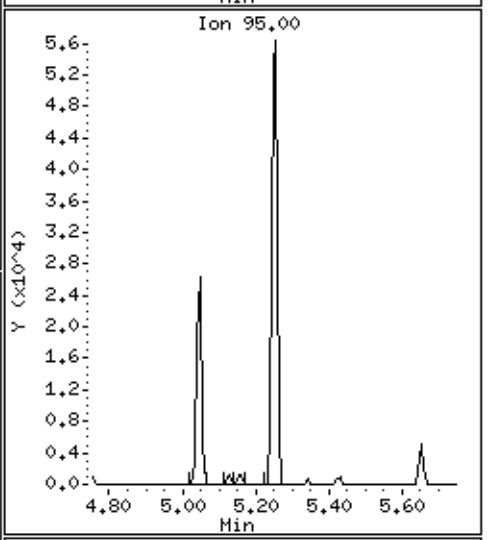
Column phase: HPMS-5 Column diameter: 0.25

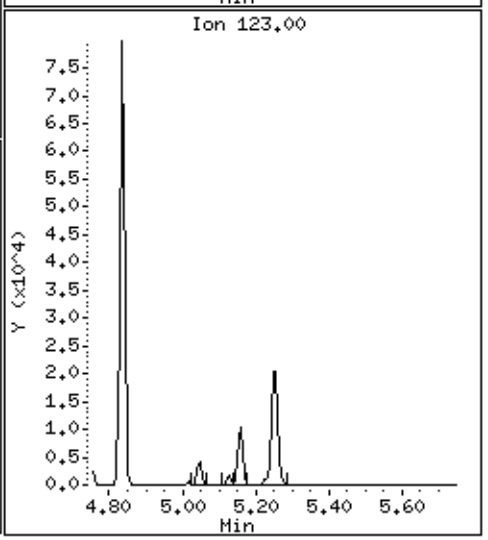
38 Bis(2-Chloroethoxy)methane Concentration: 44.6 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

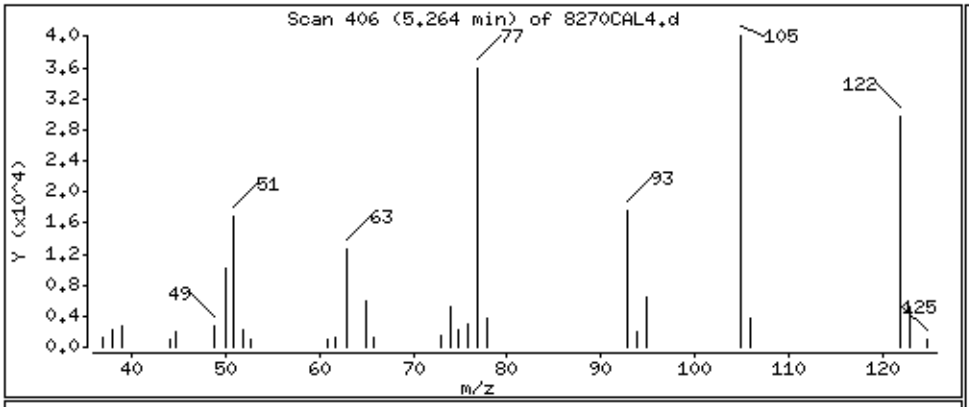
Operator: MJ

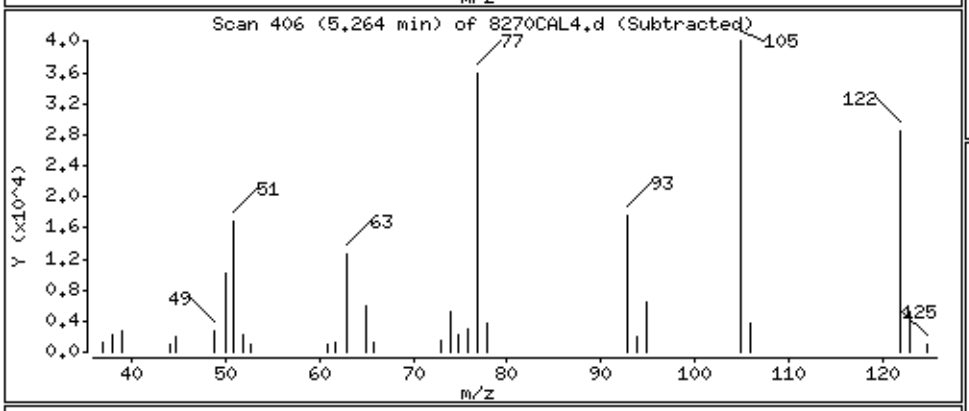
Column phase: HPMS-5

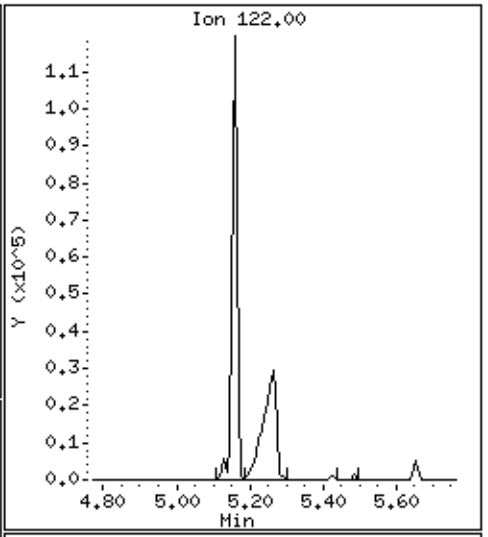
Column diameter: 0.25

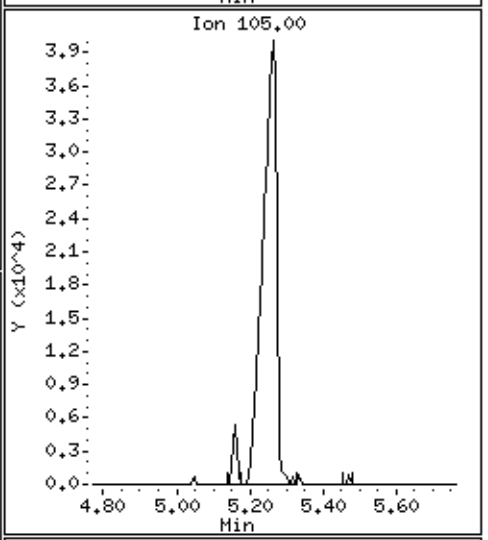
40 Benzoic Acid

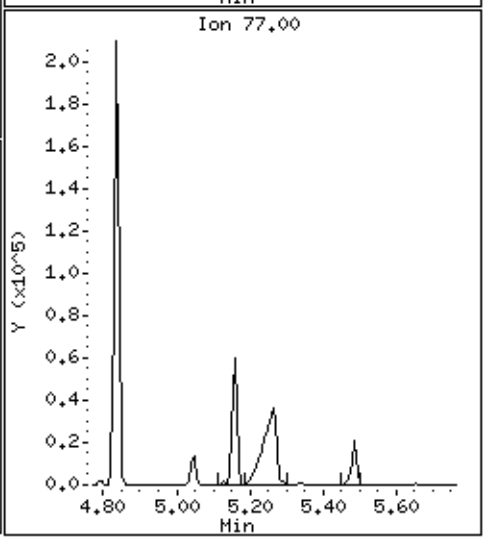
Concentration: 44.8 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

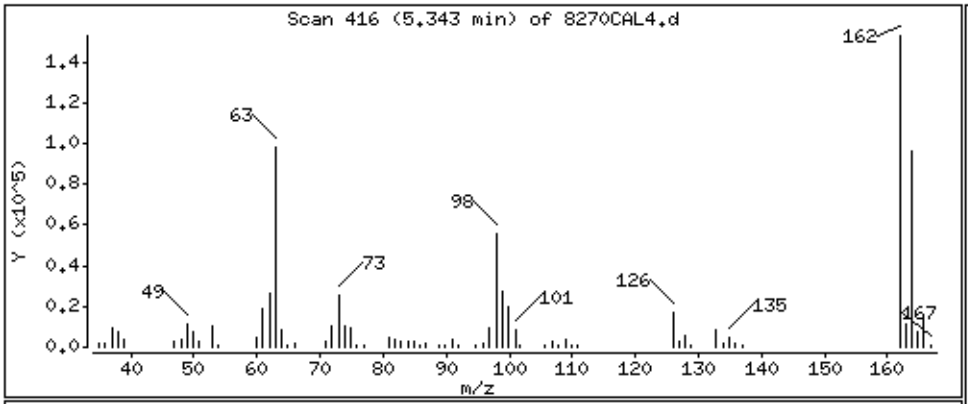
Operator: MJ

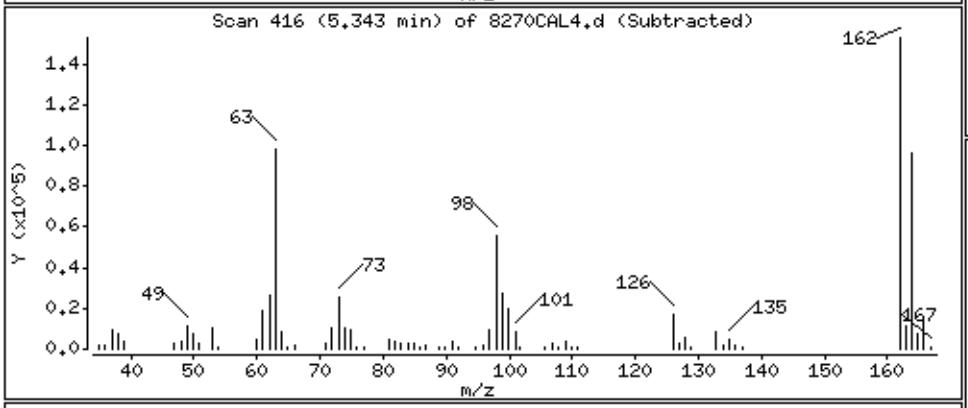
Column phase: HPMS-5

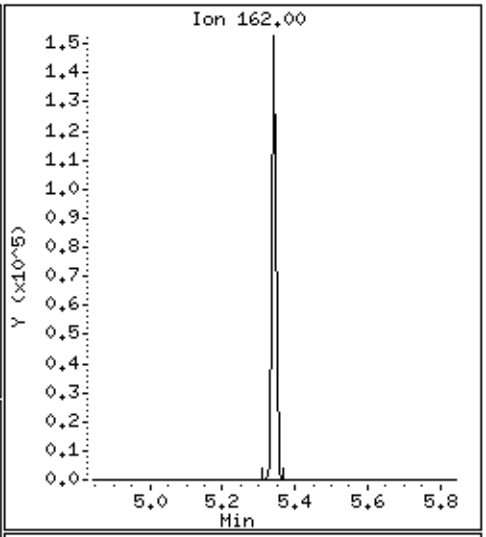
Column diameter: 0.25

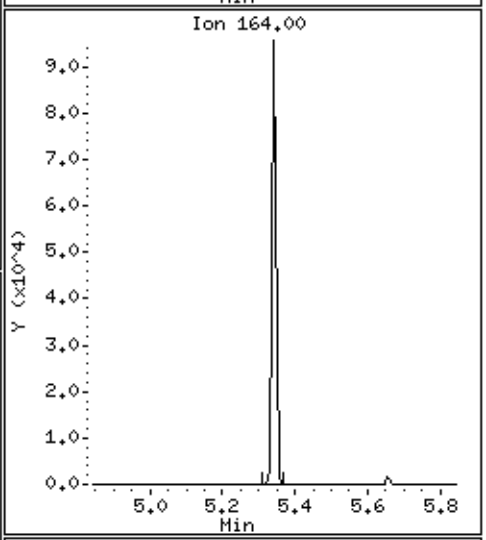
41 2,4-Dichlorophenol

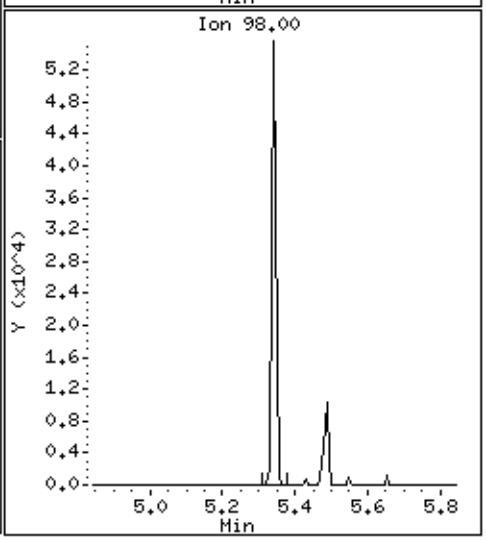
Concentration: 44.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

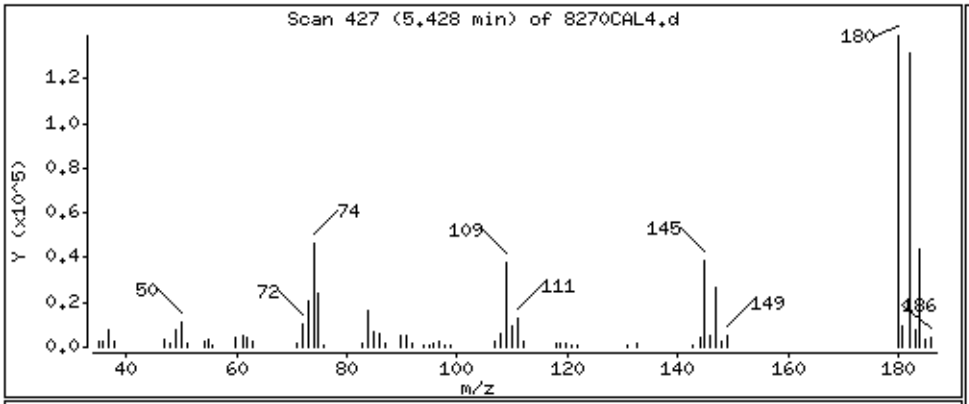
Operator: MJ

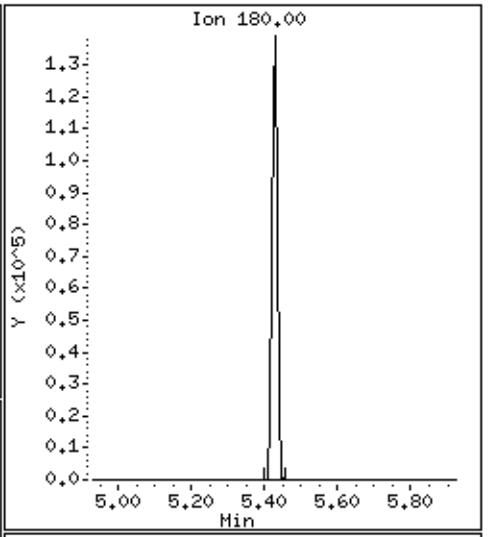
Column phase: HPMS-5

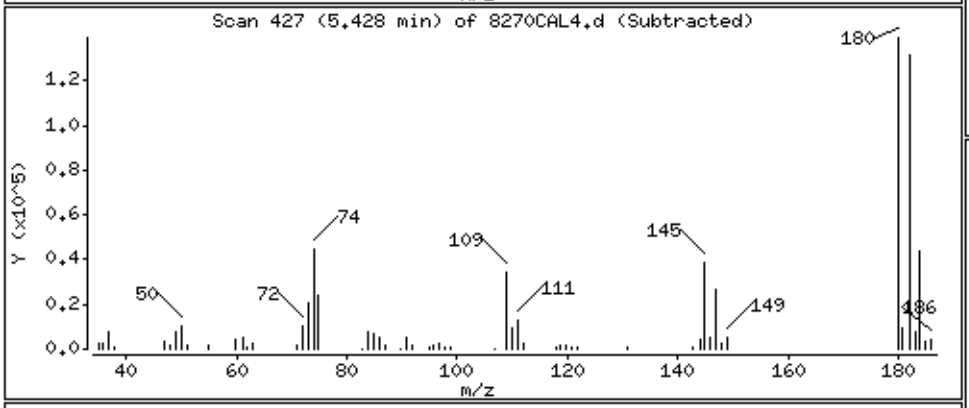
Column diameter: 0.25

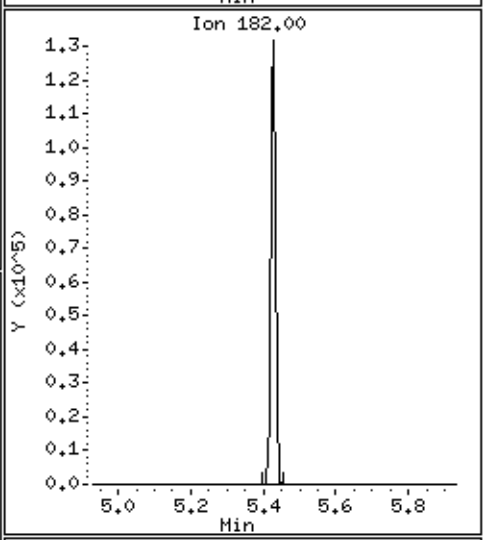
42 1,2,4-Trichlorobenzene

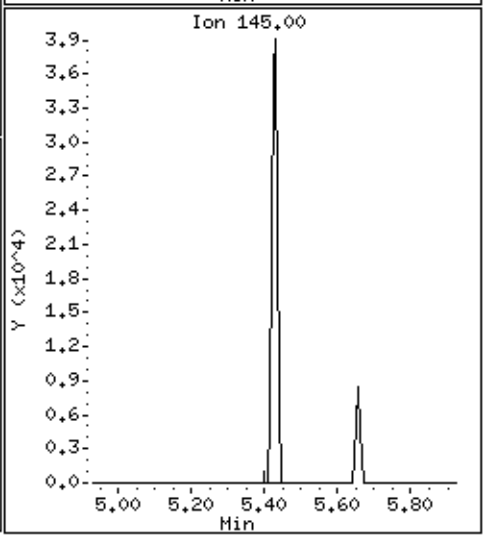
Concentration: 44.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

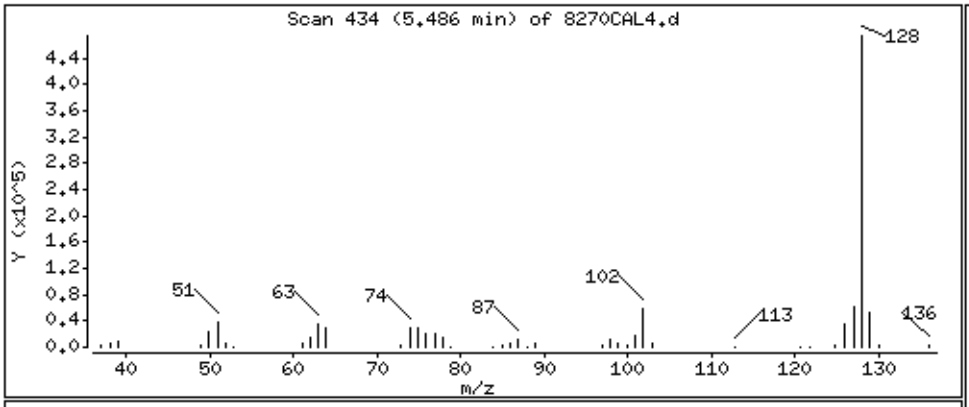
Client ID: 8270CAL4 Instrument: smsd04.i

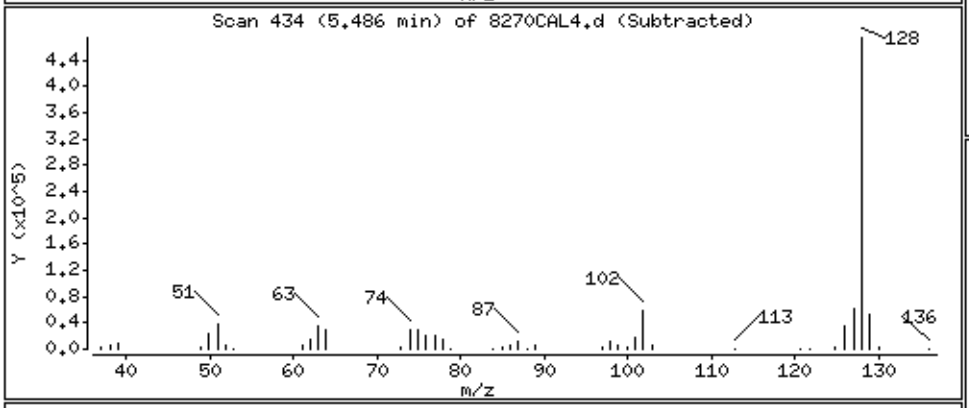
Sample Info: 47766

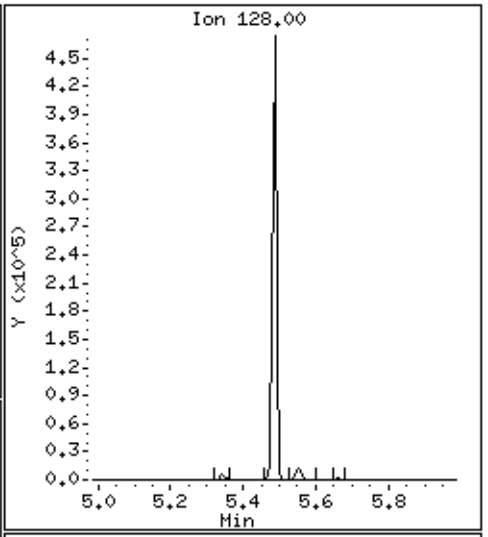
Operator: MJ

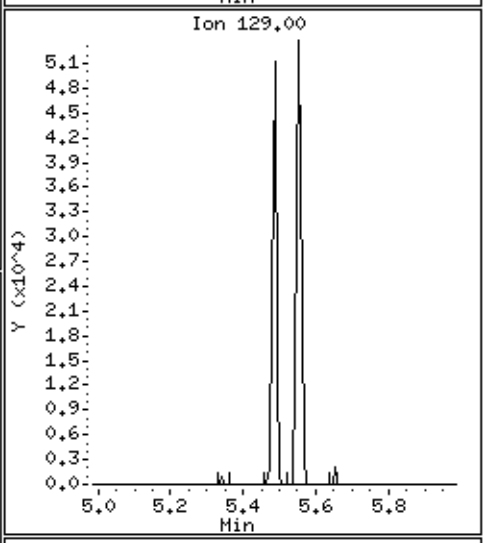
Column phase: HPMS-5 Column diameter: 0.25

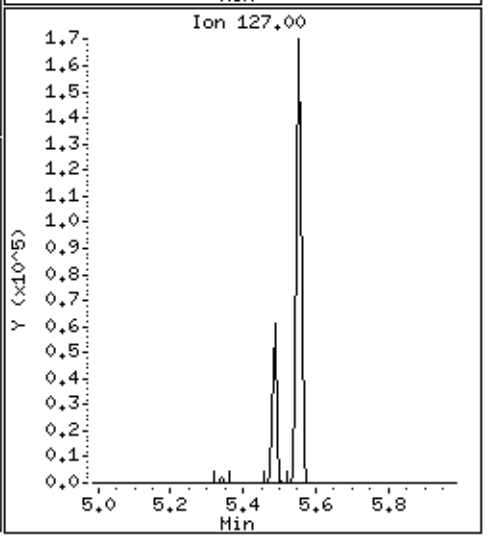
44 Naphthalene Concentration: 45.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

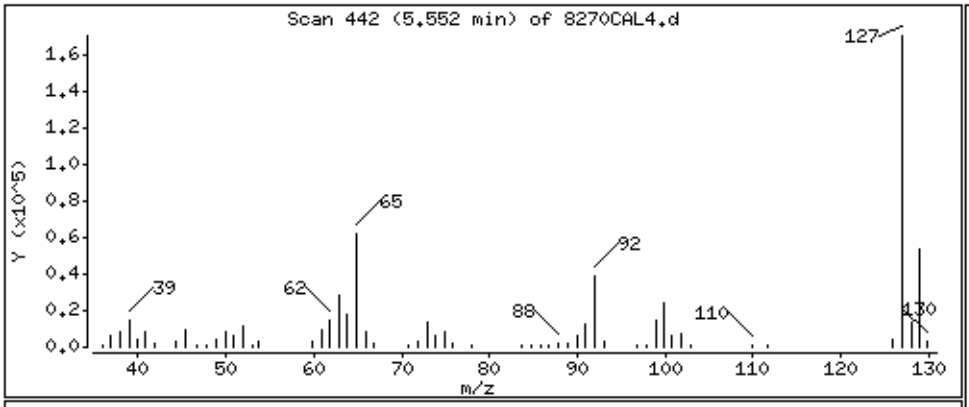
Operator: MJ

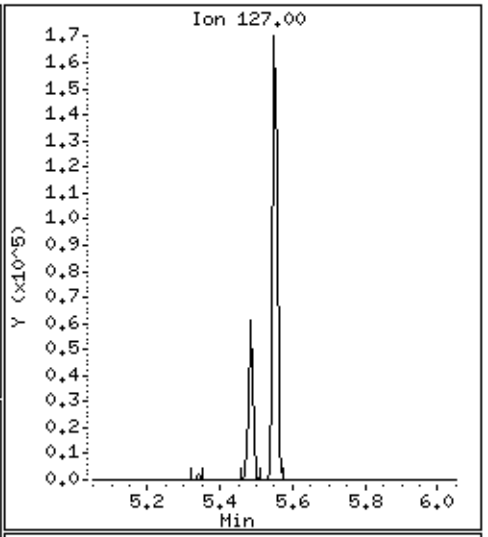
Column phase: HPMS-5

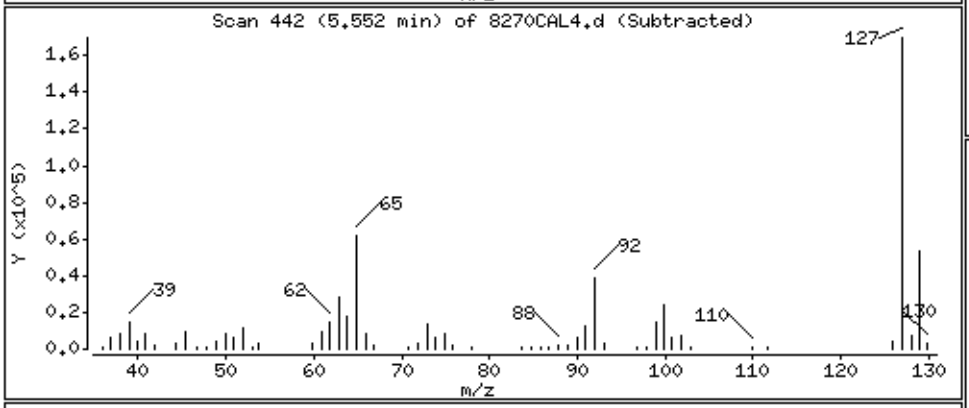
Column diameter: 0.25

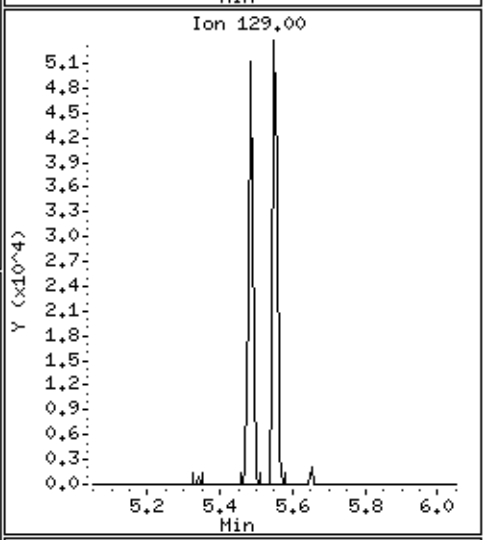
45 4-Chloroaniline

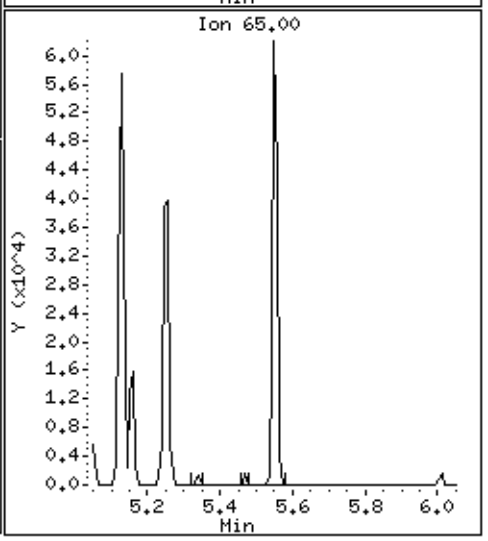
Concentration: 45.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

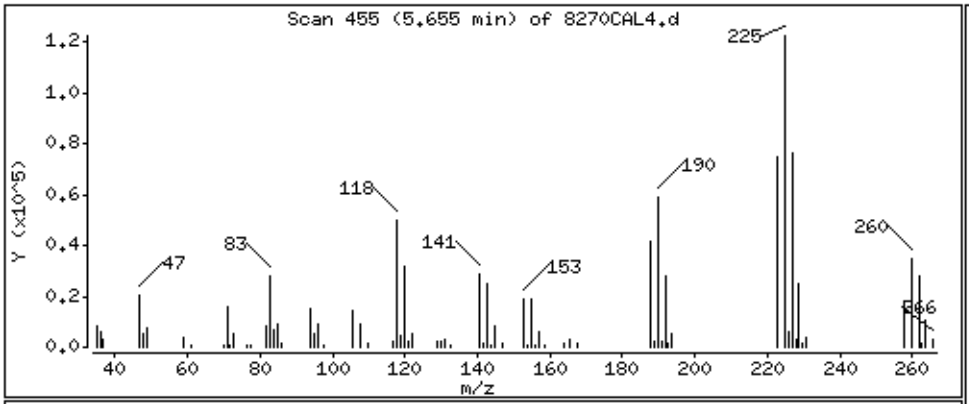
Operator: MJ

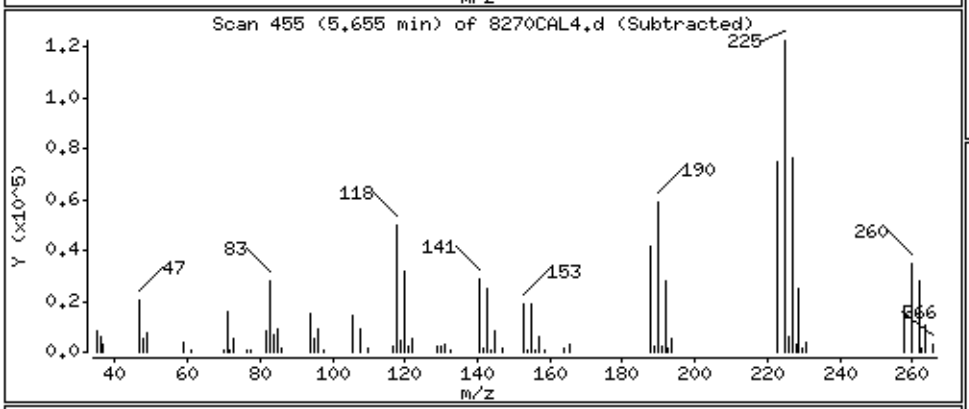
Column phase: HPMS-5

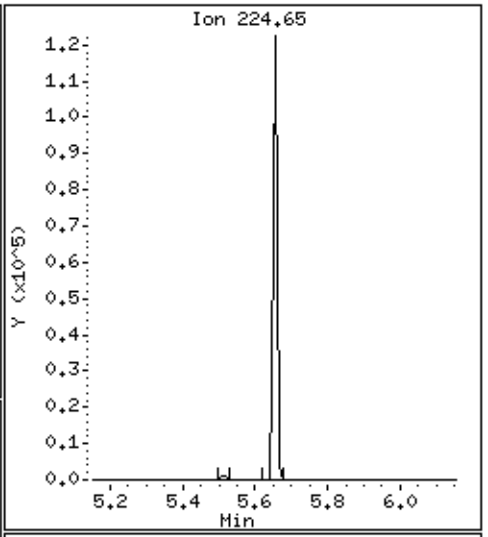
Column diameter: 0.25

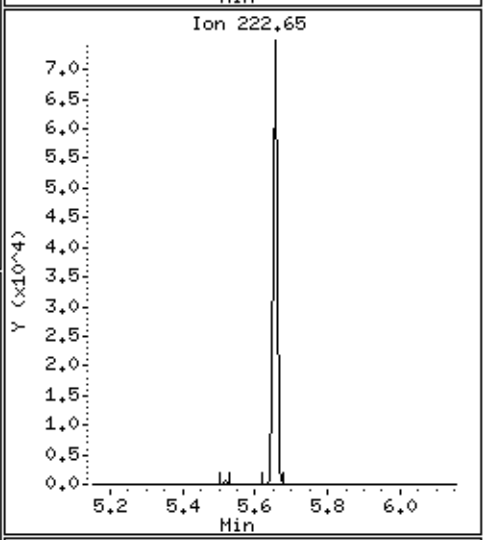
48 Hexachlorobutadiene

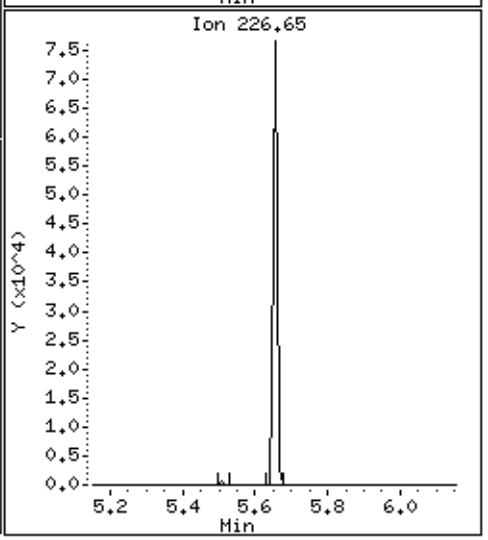
Concentration: 45.1 ug/kg











Date : 14-NOV-2012 23:43

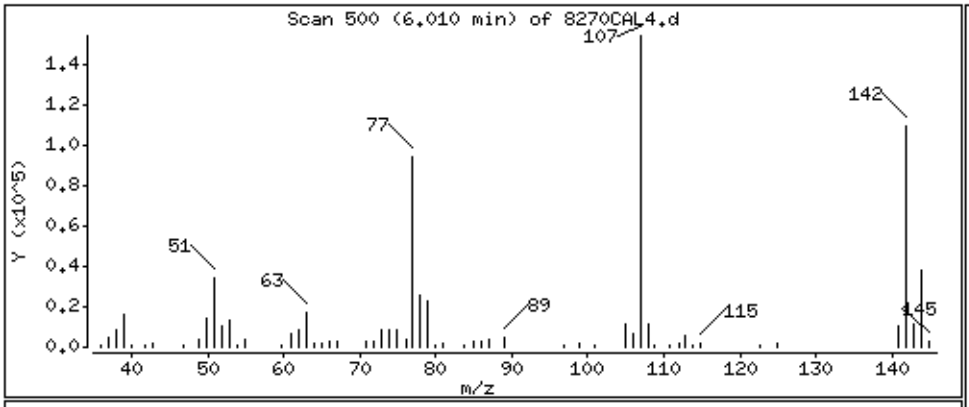
Client ID: 8270CAL4 Instrument: smsd04.i

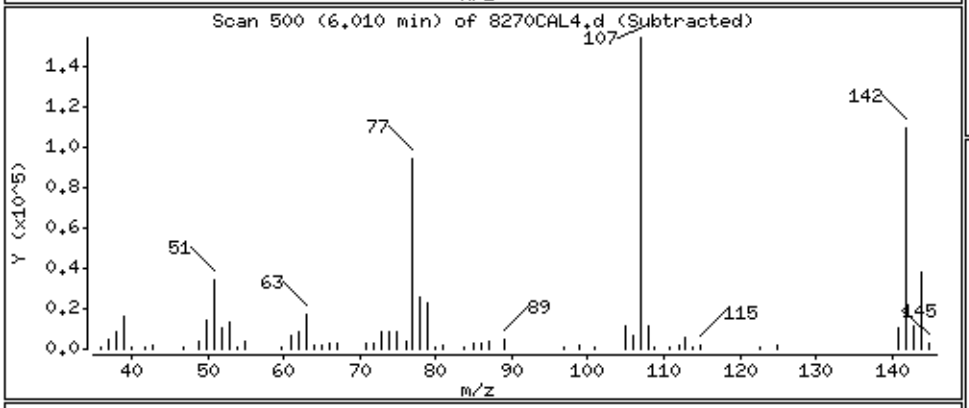
Sample Info: 47766

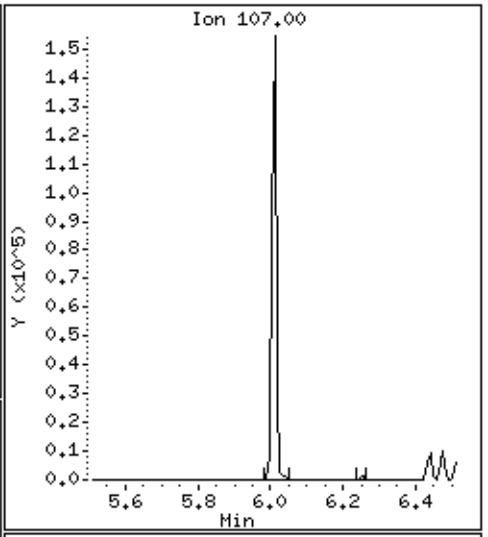
Operator: MJ

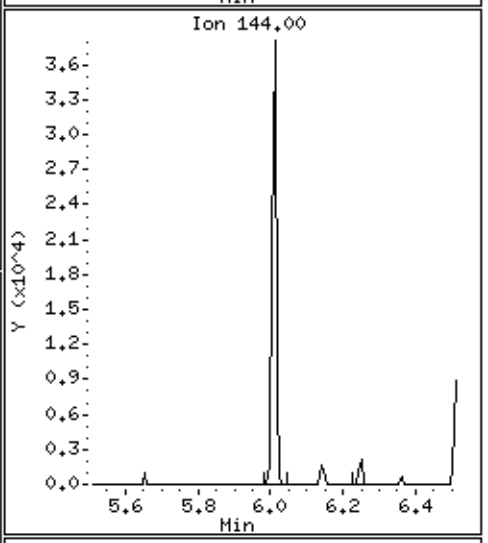
Column phase: HPMS-5 Column diameter: 0.25

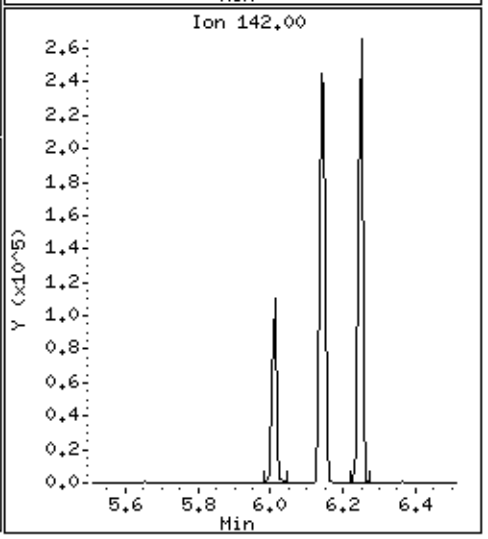
51 4-Chloro-3-methylphenol Concentration: 42.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

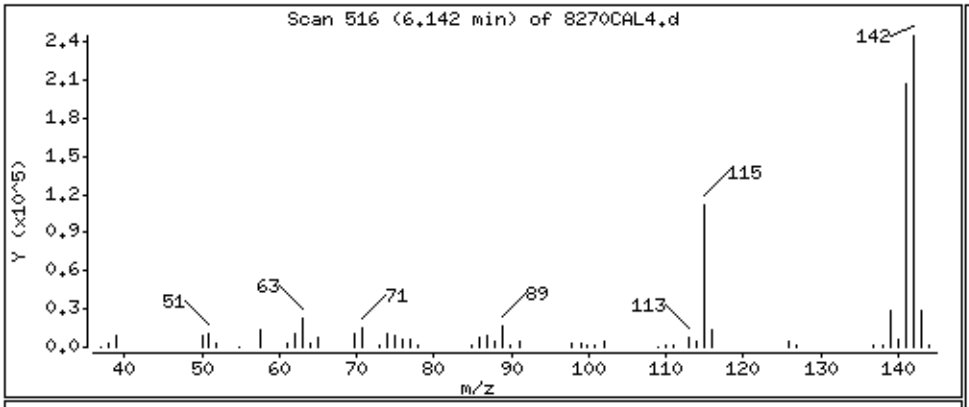
Operator: MJ

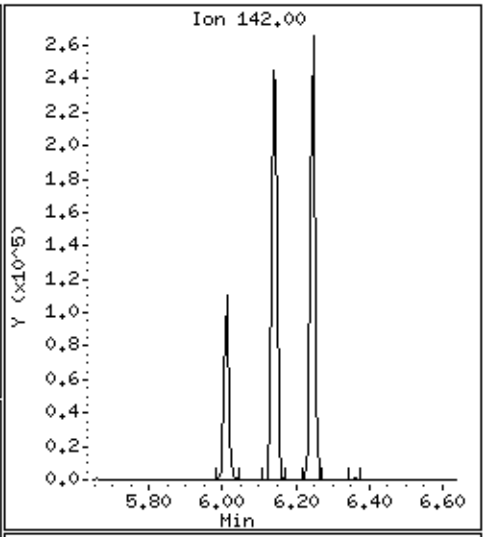
Column phase: HPMS-5

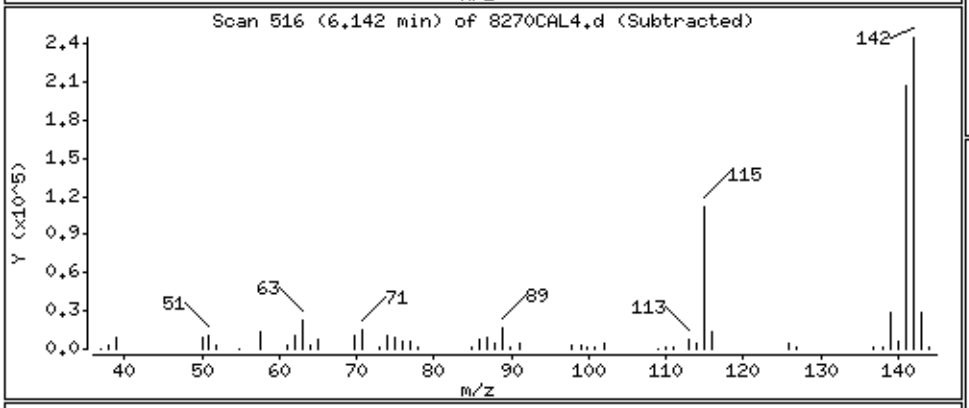
Column diameter: 0.25

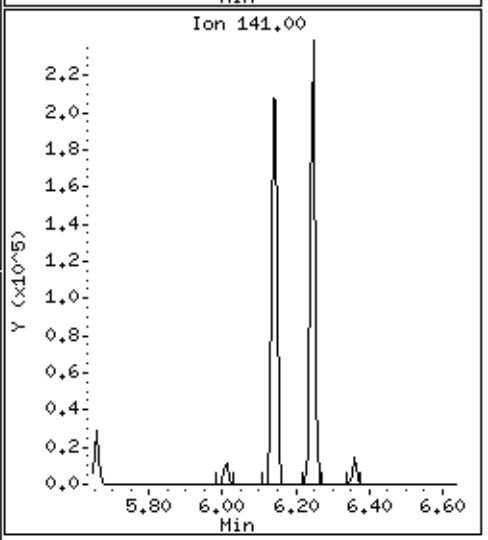
53 2-Methylnaphthalene

Concentration: 43.0 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

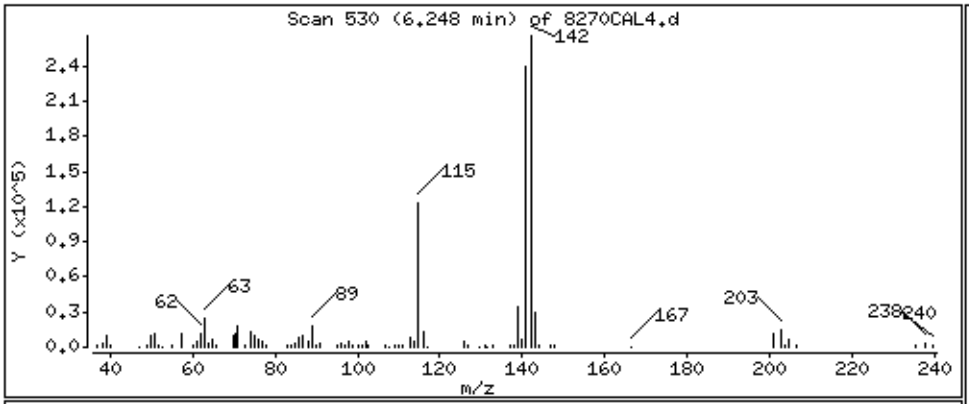
Operator: MJ

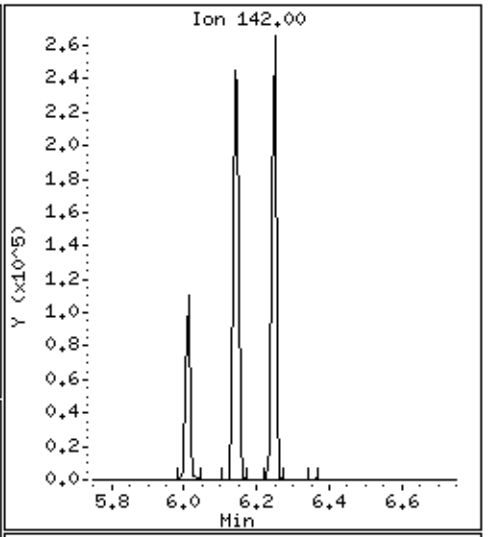
Column phase: HPMS-5

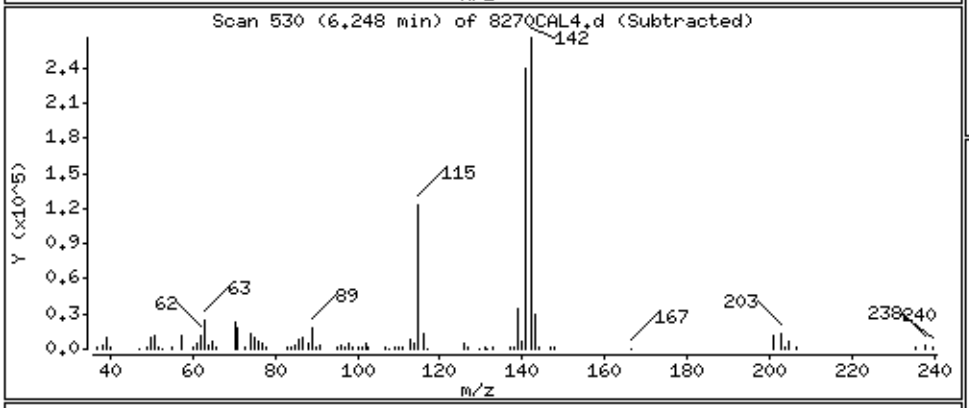
Column diameter: 0.25

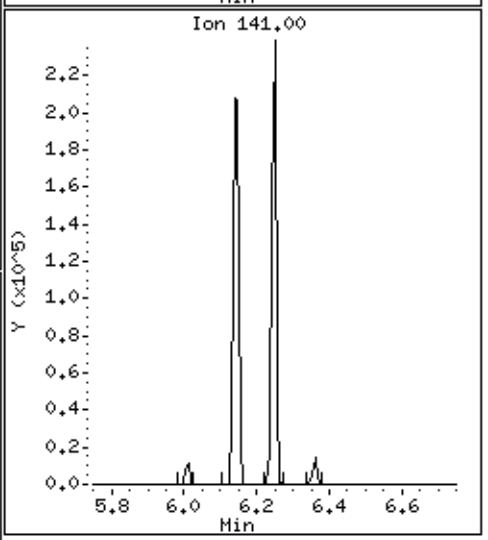
54 1-Methylnaphthalene

Concentration: 43.0 ug/kg









Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

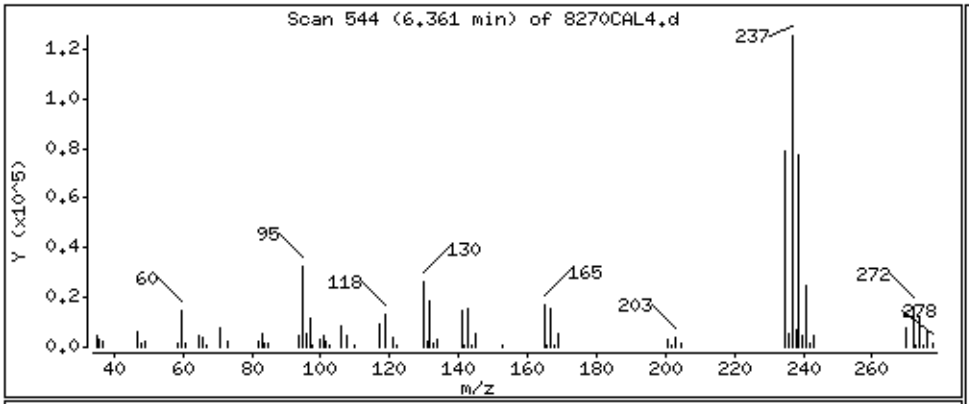
Operator: MJ

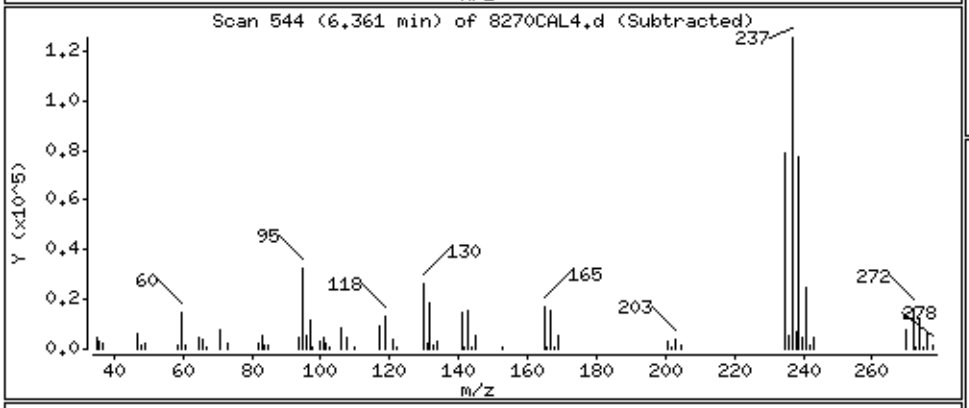
Column phase: HPMS-5

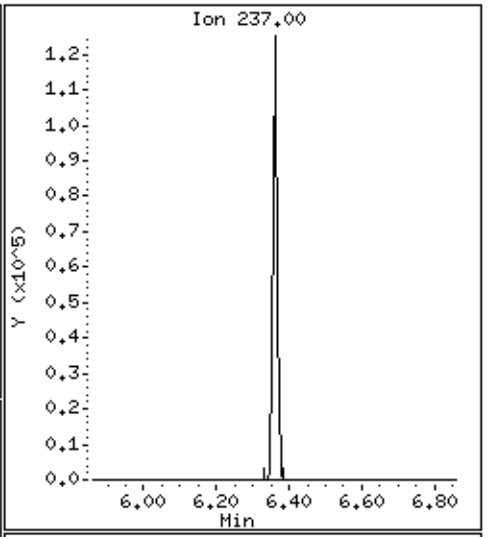
Column diameter: 0.25

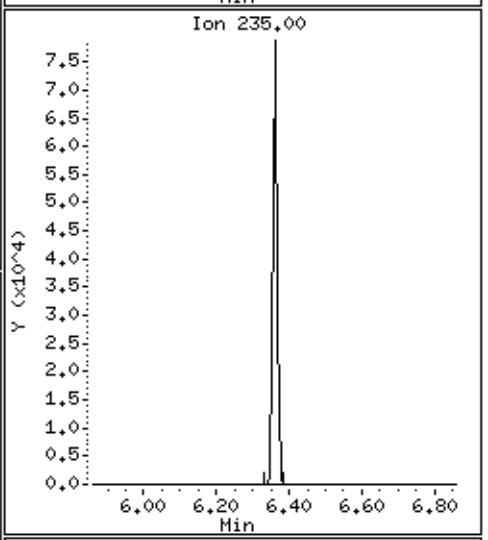
55 Hexachlorocyclopentadiene

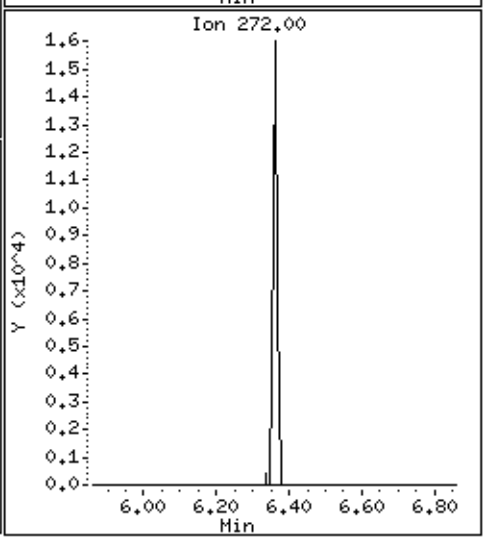
Concentration: 49.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

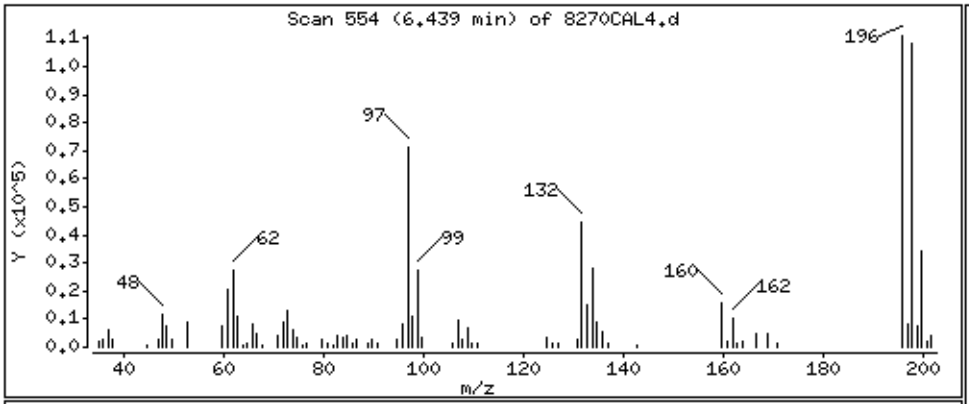
Operator: MJ

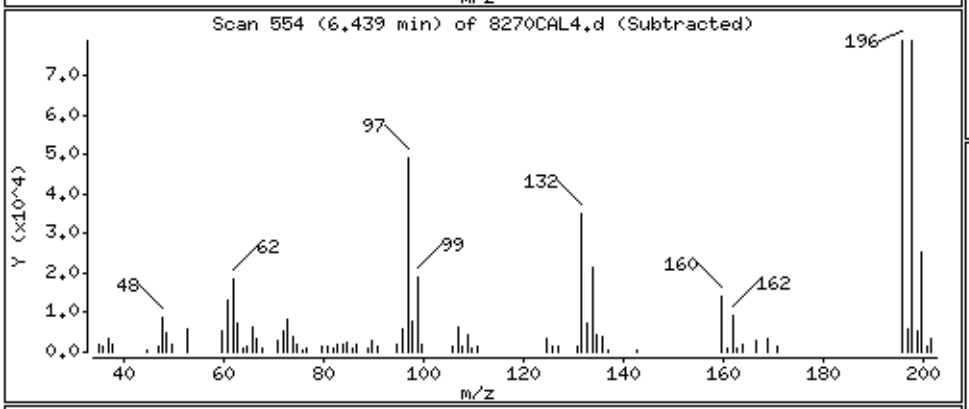
Column phase: HPMS-5

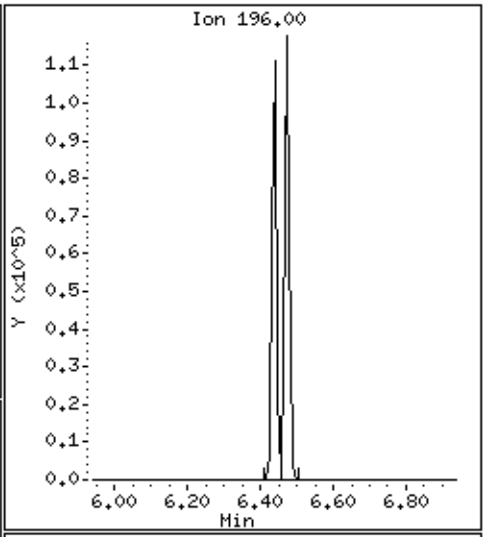
Column diameter: 0.25

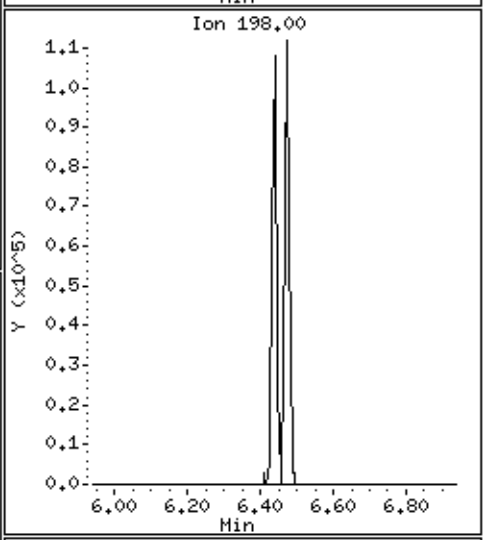
57 2,4,6-Trichlorophenol

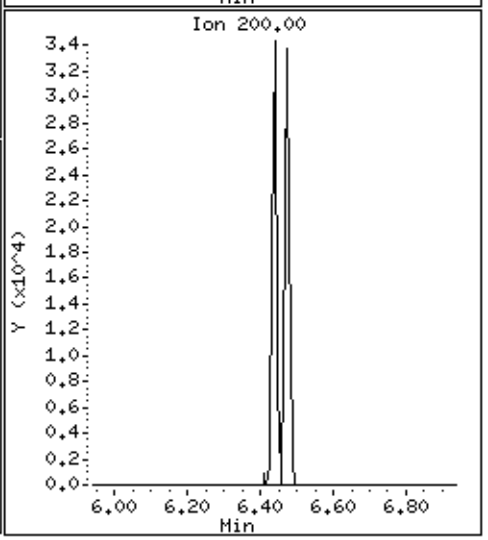
Concentration: 44.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

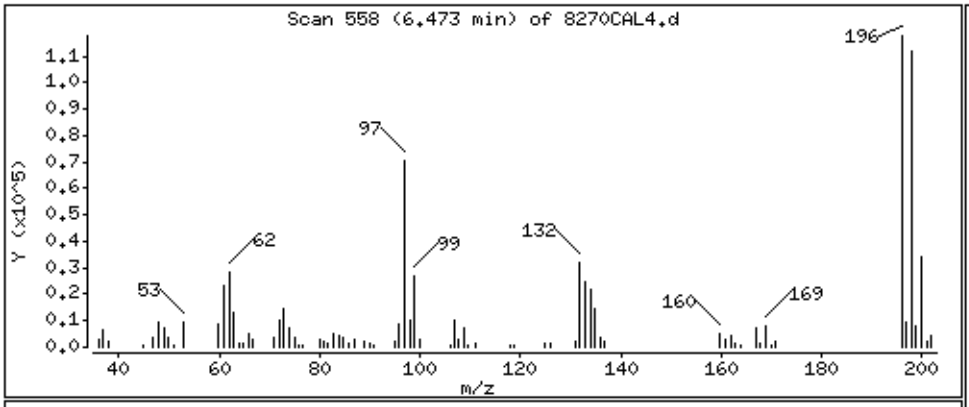
Client ID: 8270CAL4 Instrument: smsd04.i

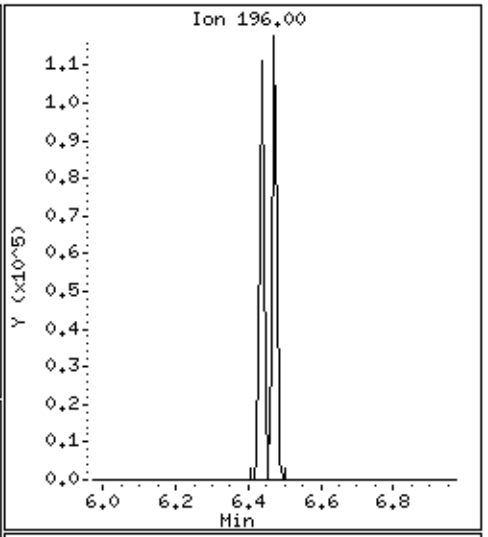
Sample Info: 47766

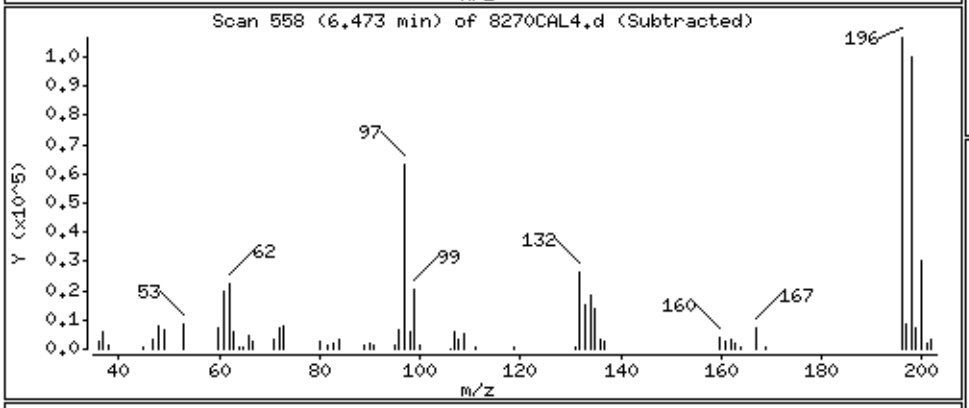
Operator: MJ

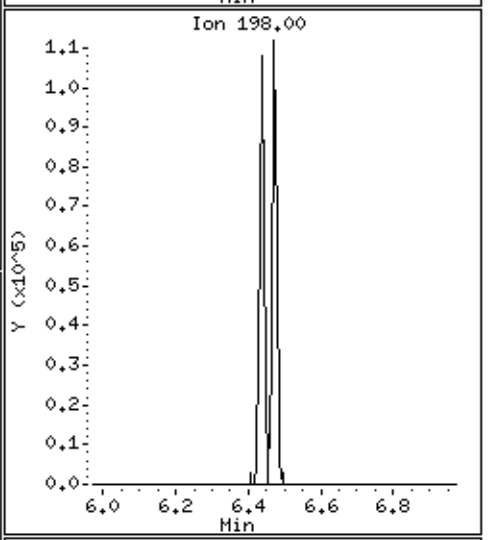
Column phase: HPMS-5 Column diameter: 0.25

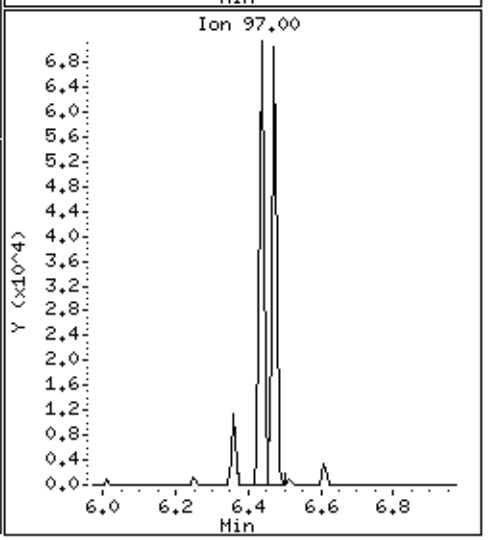
58 2,4,5-Trichlorophenol Concentration: 43.9 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

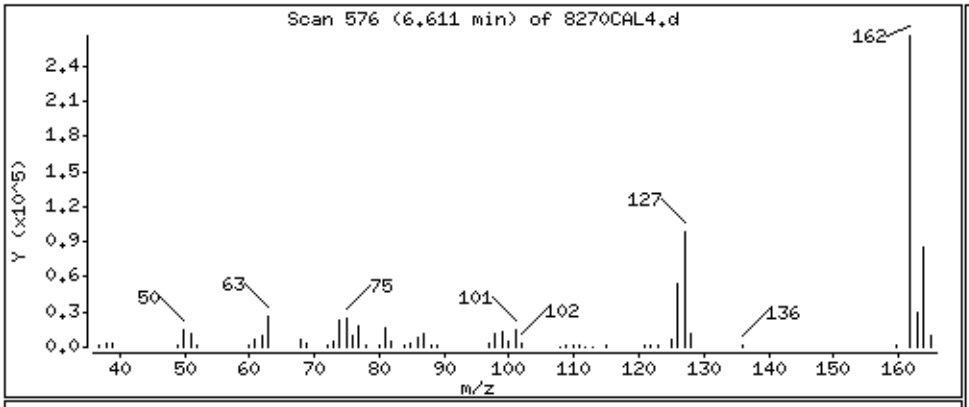
Client ID: 8270CAL4 Instrument: smsd04.i

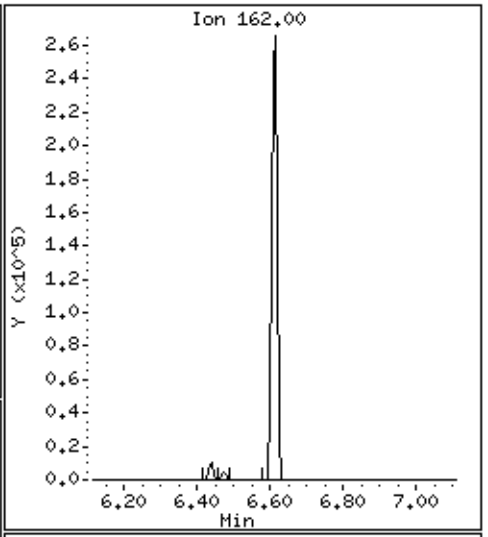
Sample Info: 47766

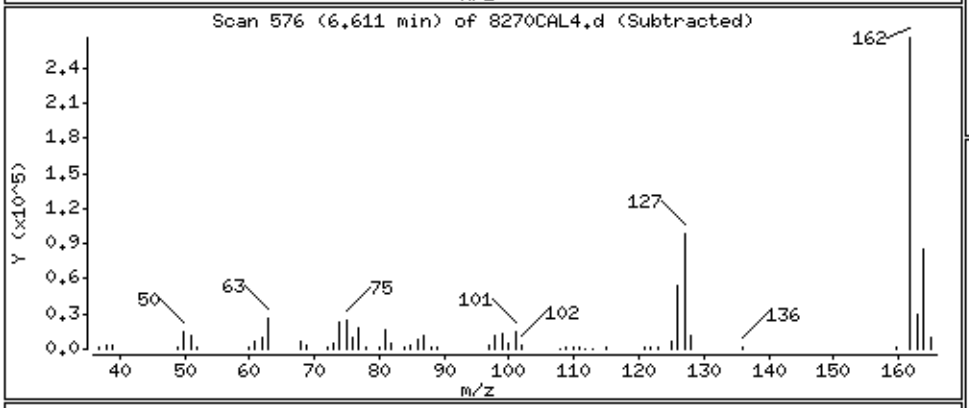
Operator: MJ

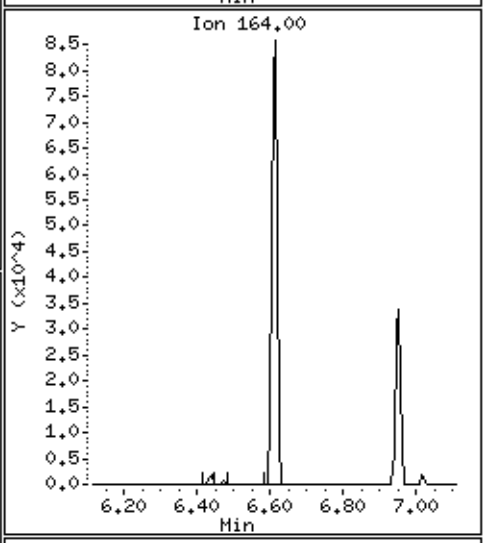
Column phase: HPMS-5 Column diameter: 0.25

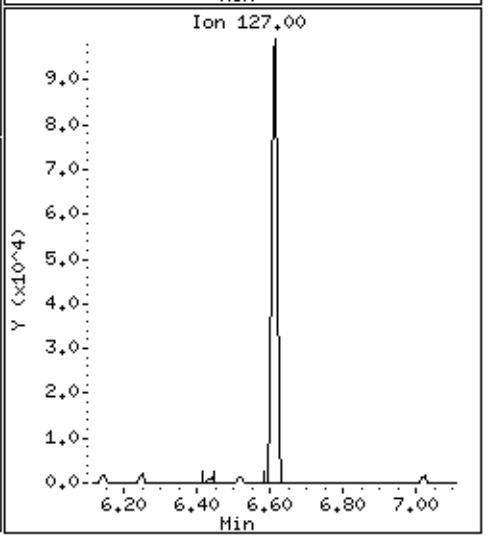
62 2-Chloronaphthalene Concentration: 45.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

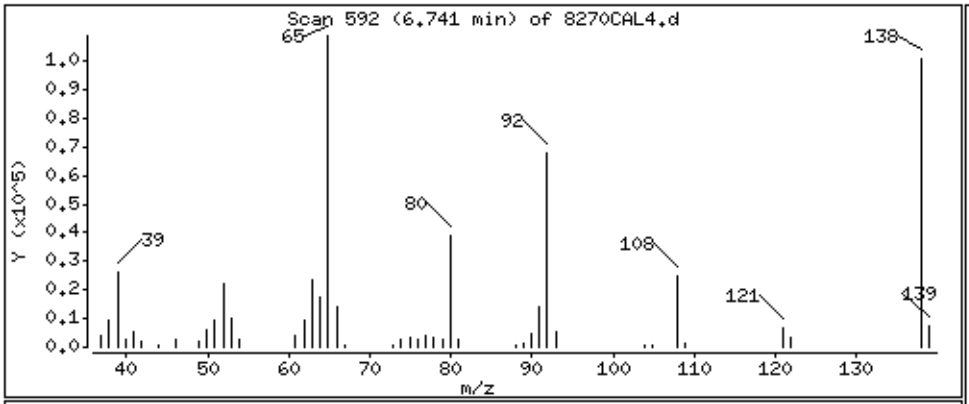
Operator: MJ

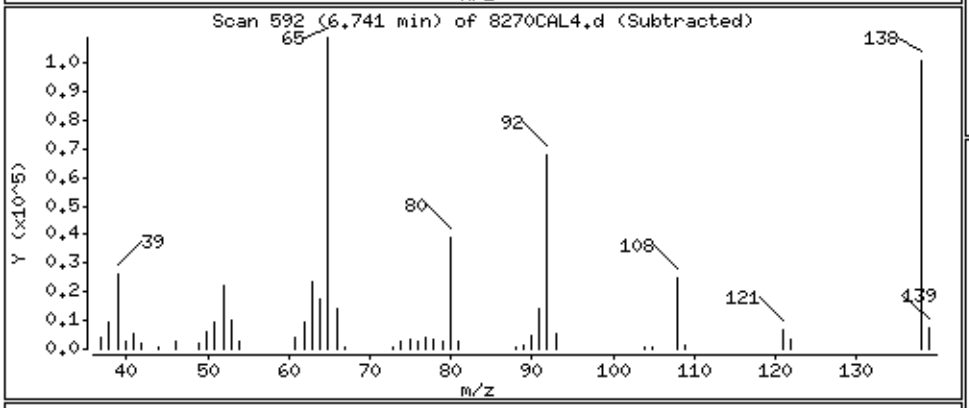
Column phase: HPMS-5

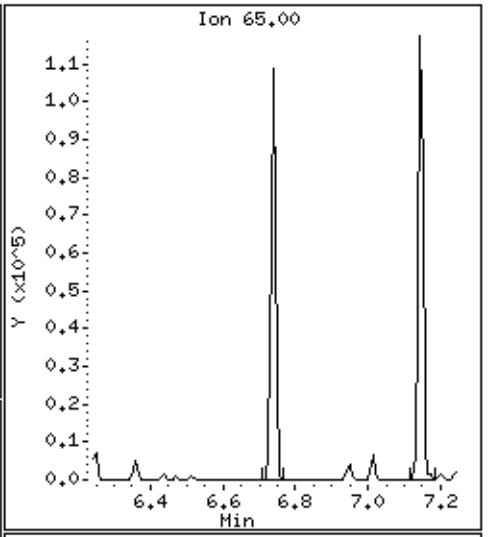
Column diameter: 0.25

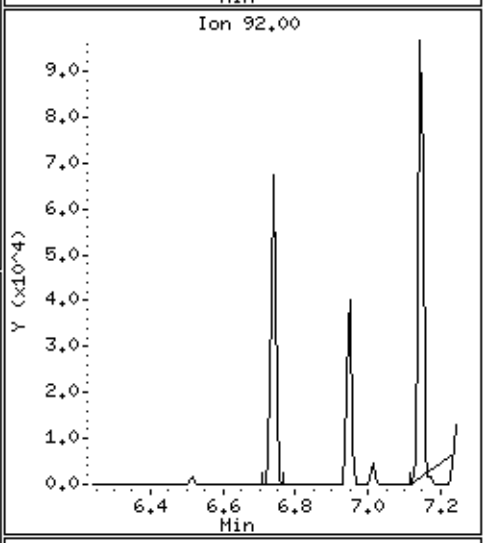
63 2-Nitroaniline

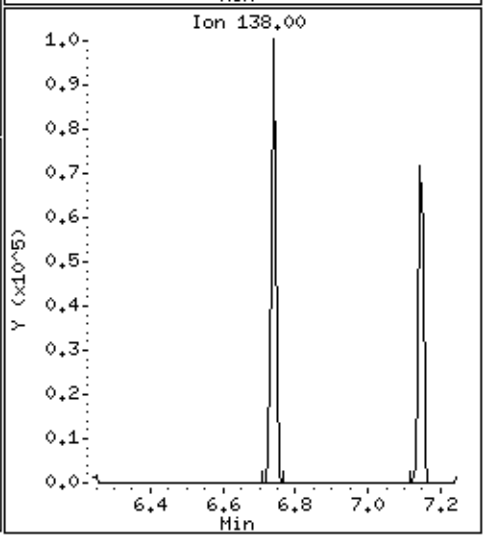
Concentration: 44.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

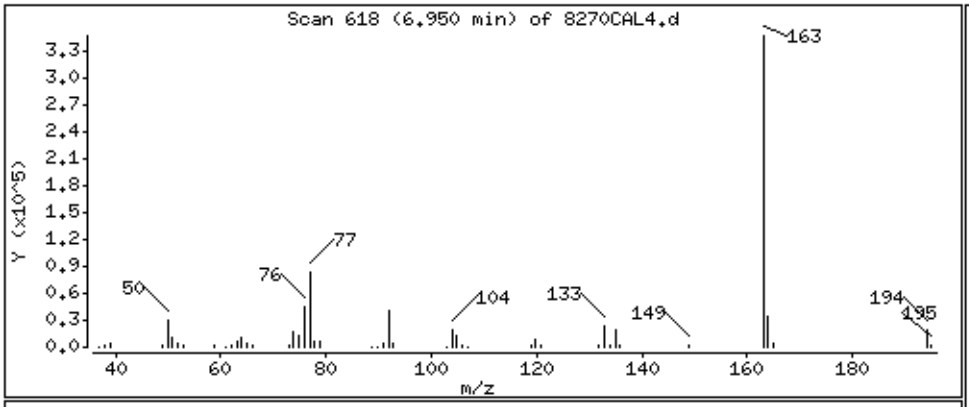
Client ID: 8270CAL4 Instrument: smsd04.i

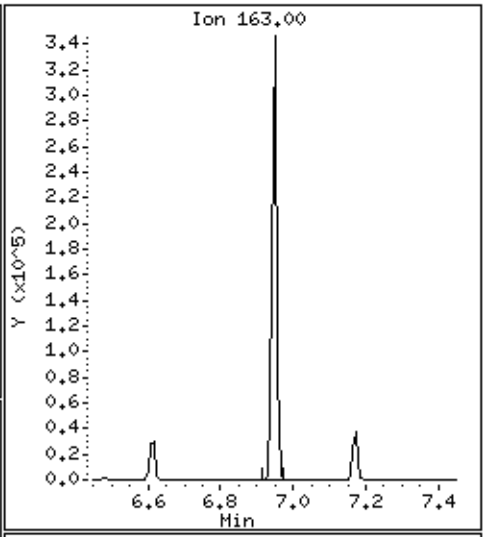
Sample Info: 47766

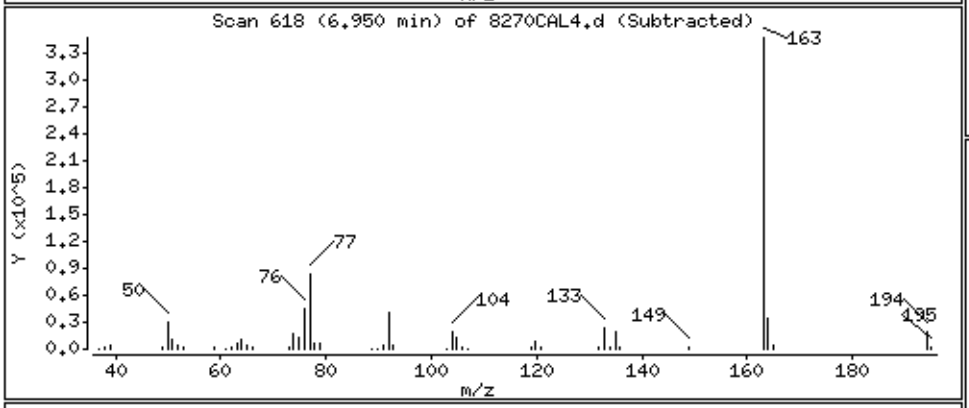
Operator: MJ

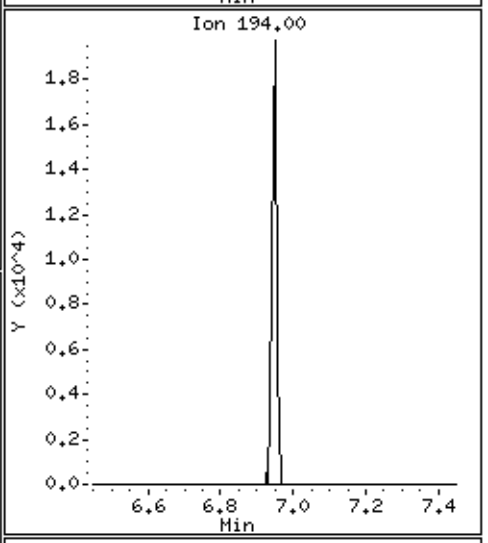
Column phase: HPMS-5 Column diameter: 0.25

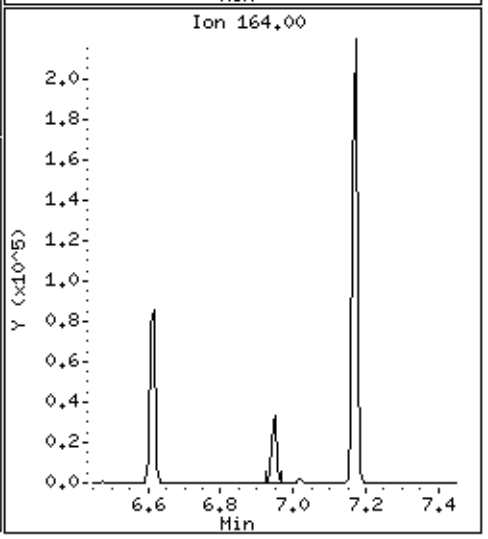
65 Dimethylphthalate Concentration: 44.7 ug/kg











Date : 14-NOV-2012 23:43

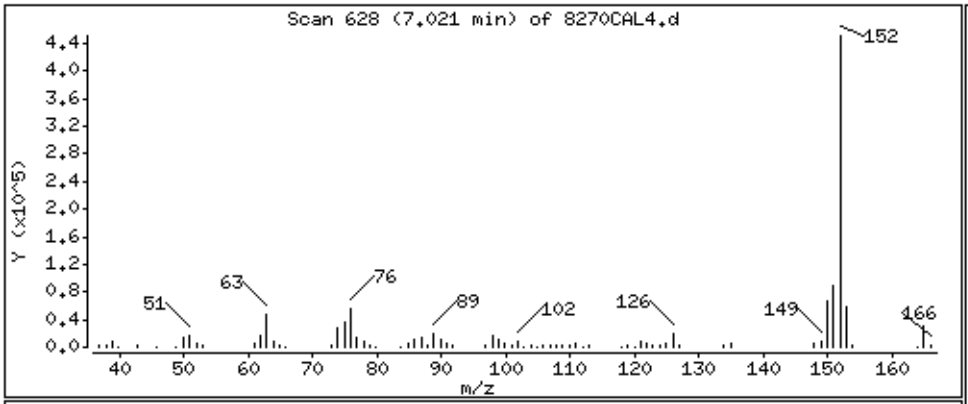
Client ID: 8270CAL4 Instrument: smsd04.i

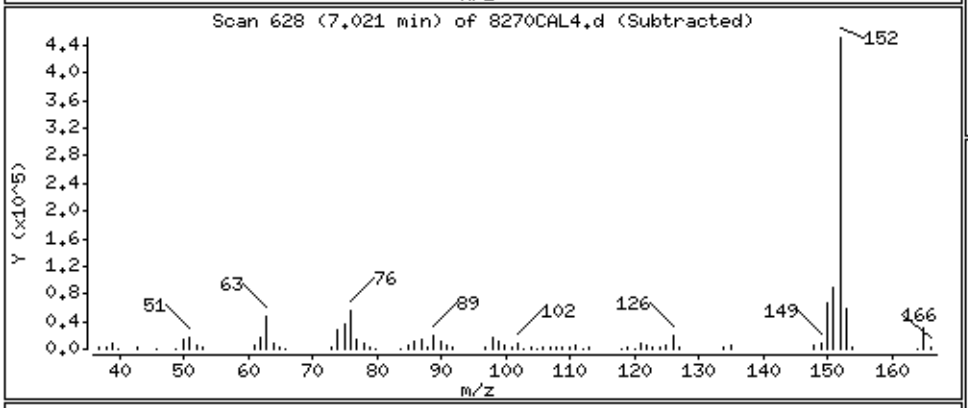
Sample Info: 47766

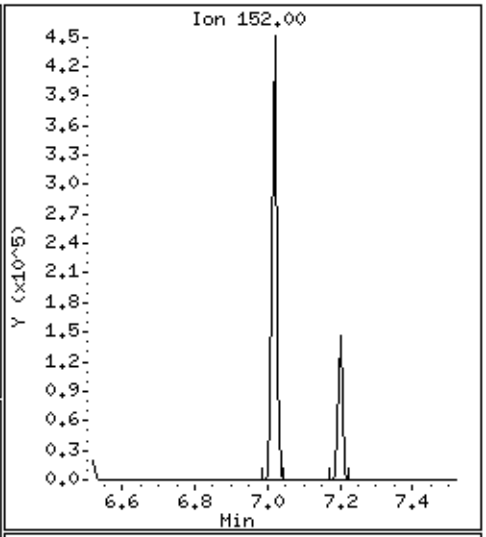
Operator: MJ

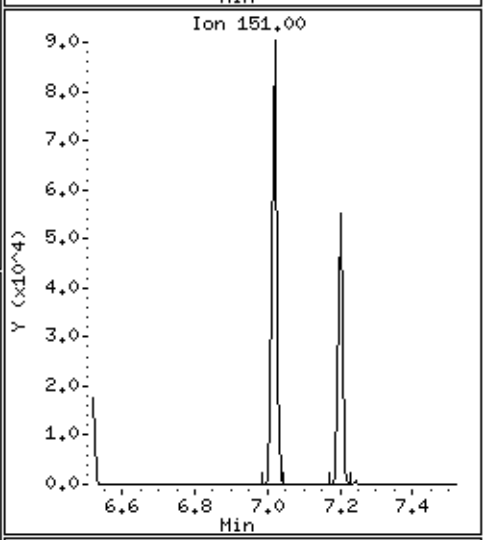
Column phase: HPMS-5 Column diameter: 0.25

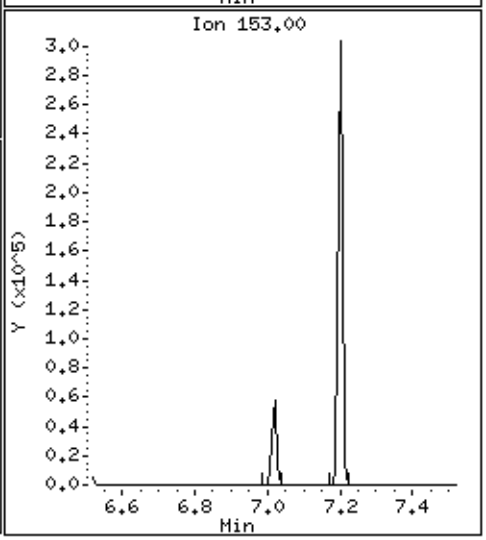
68 Acenaphthylene Concentration: 43.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

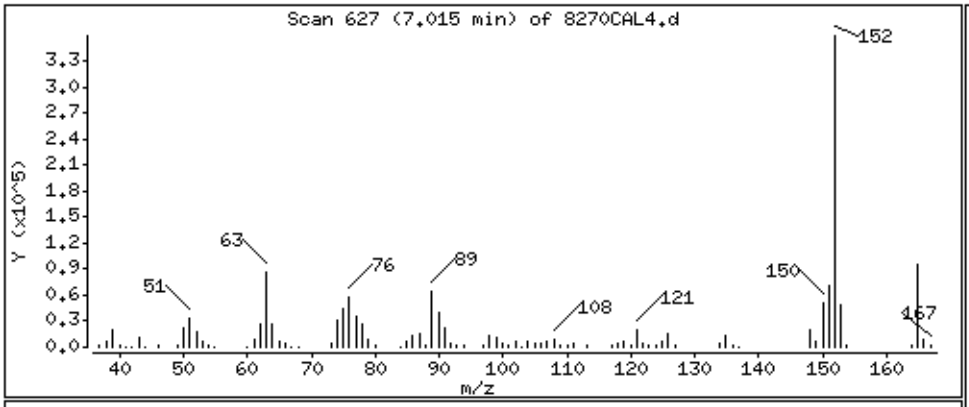
Client ID: 8270CAL4 Instrument: smsd04.i

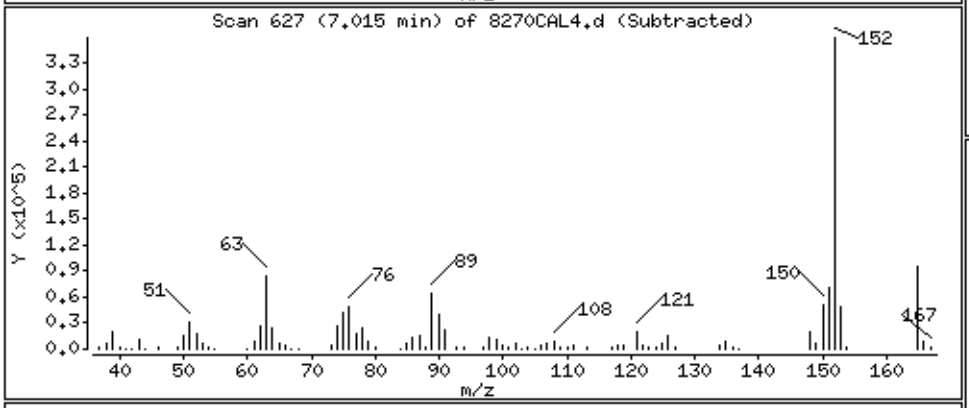
Sample Info: 47766

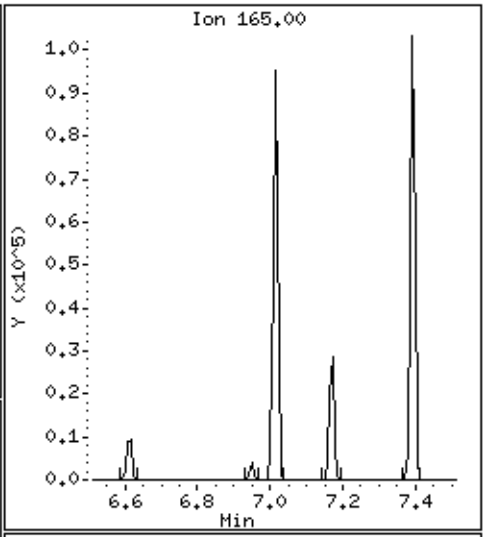
Operator: MJ

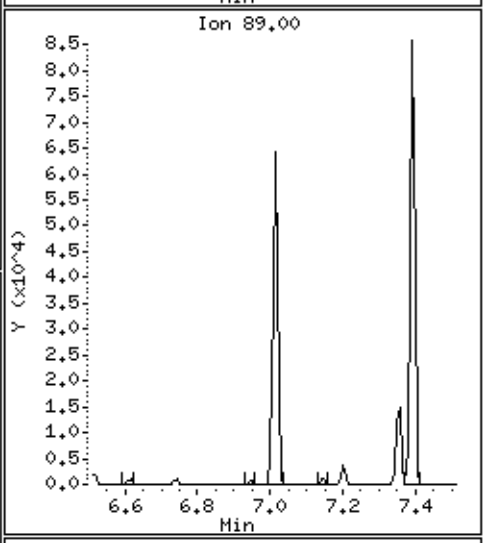
Column phase: HPMS-5 Column diameter: 0.25

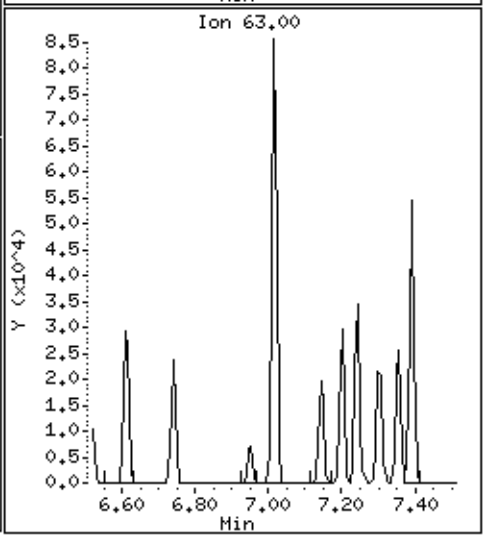
67 2,6-Dinitrotoluene Concentration: 43.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

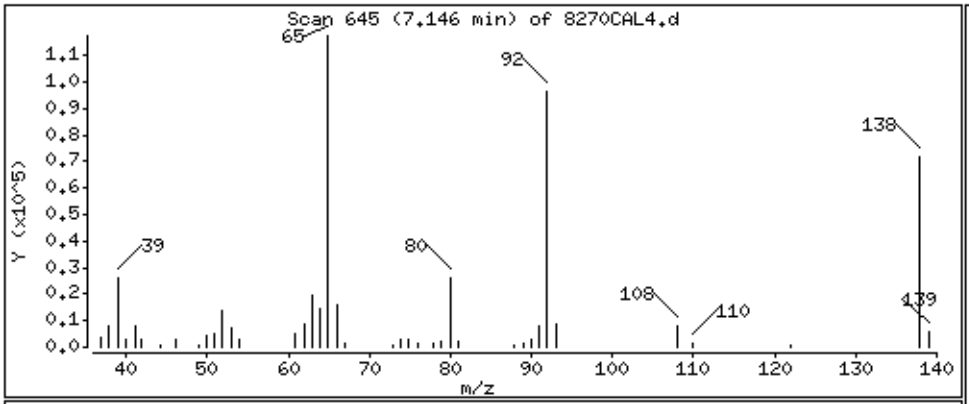
Operator: MJ

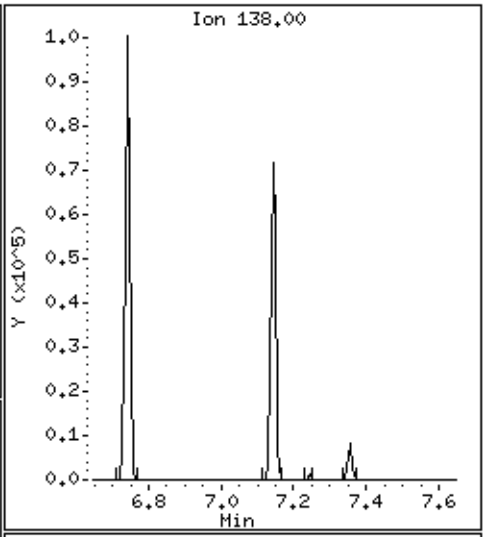
Column phase: HPMS-5

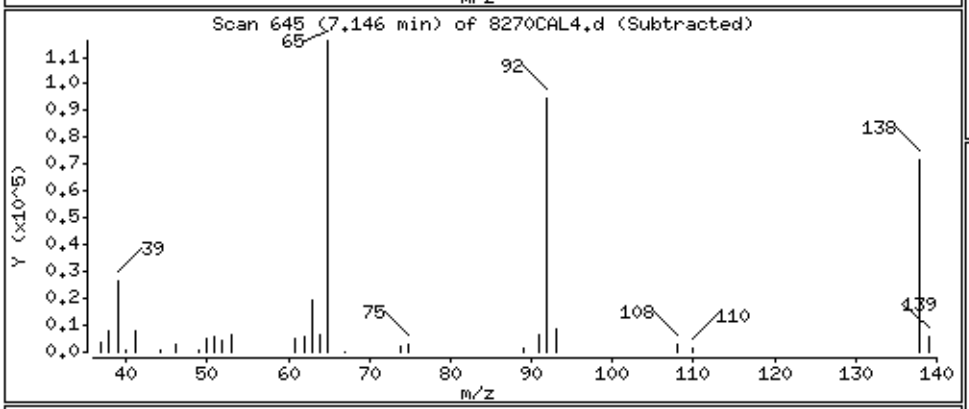
Column diameter: 0.25

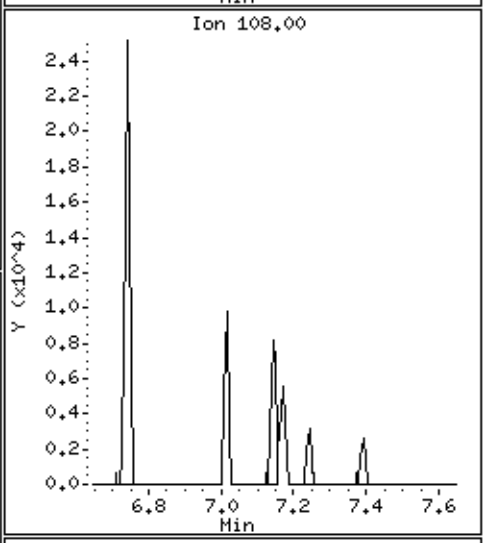
69 3-Nitroaniline

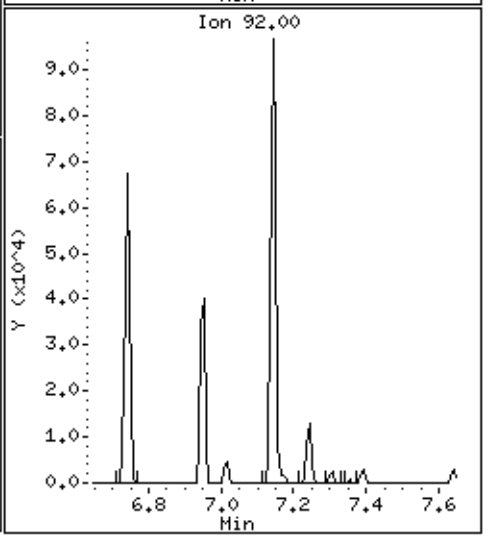
Concentration: 44.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

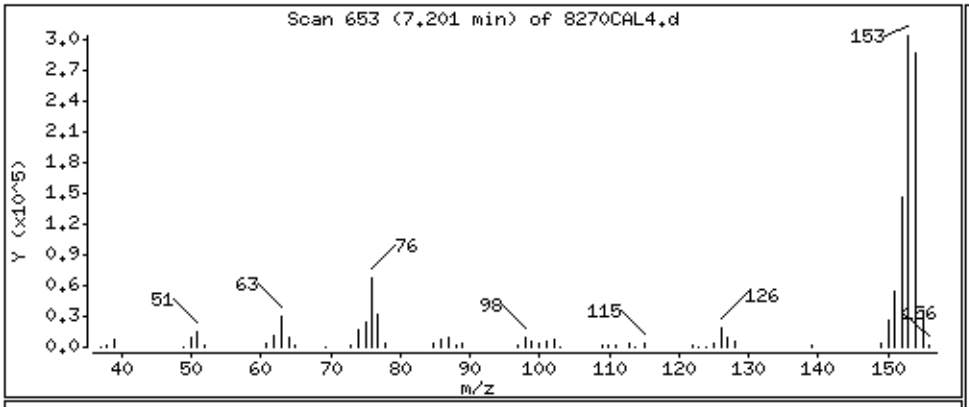
Operator: MJ

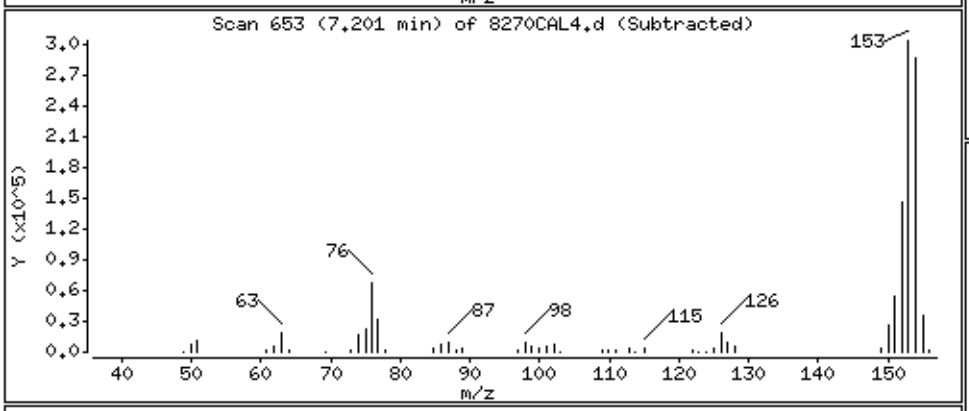
Column phase: HPMS-5

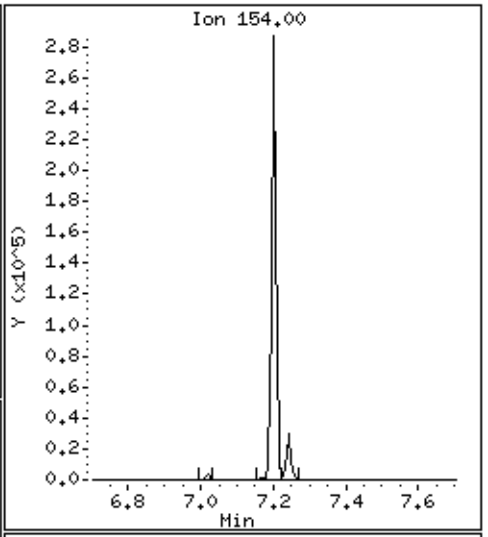
Column diameter: 0.25

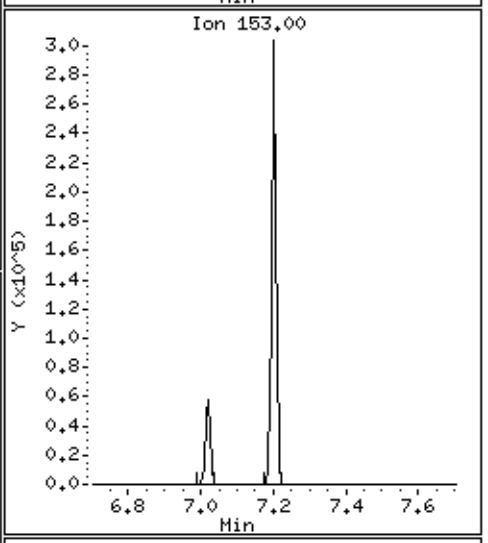
71 Acenaphthene

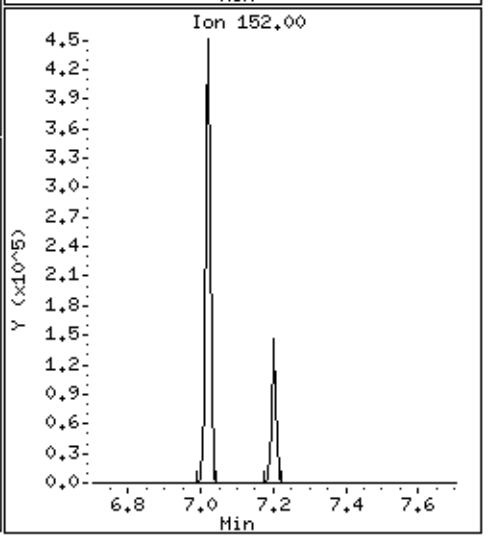
Concentration: 44.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

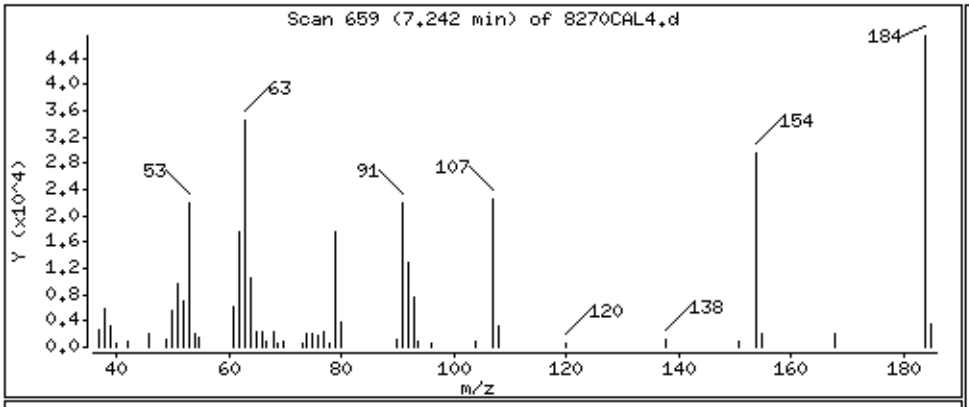
Operator: MJ

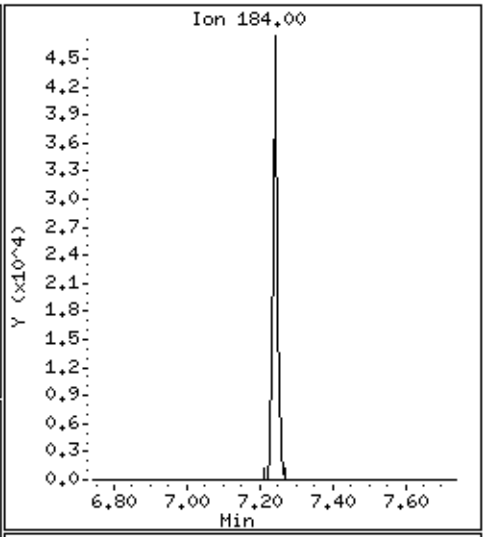
Column phase: HPMS-5

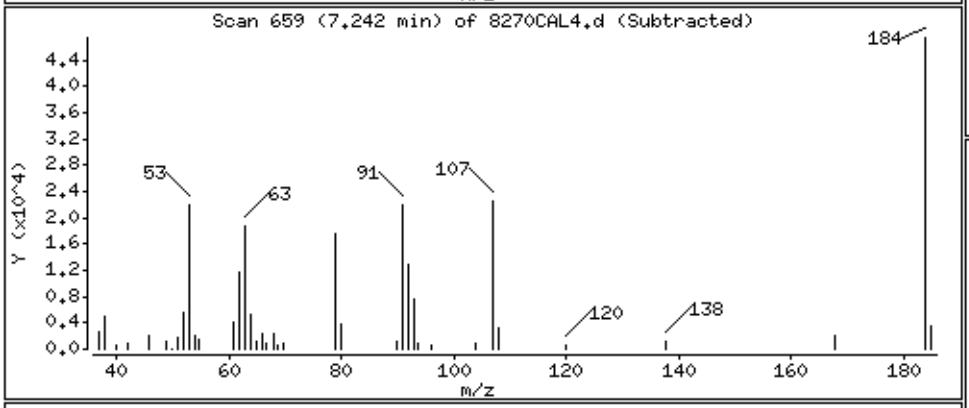
Column diameter: 0.25

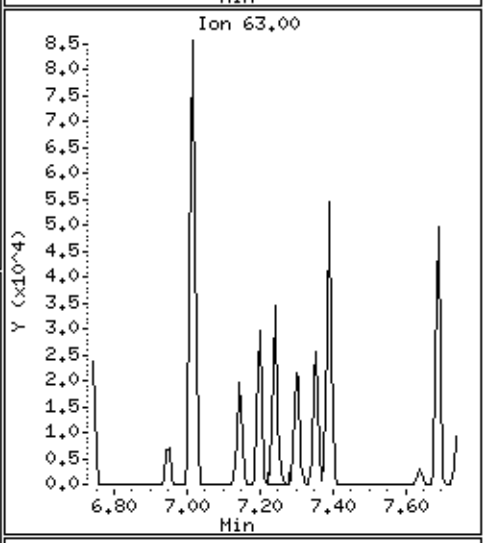
72 2,4-Dinitrophenol

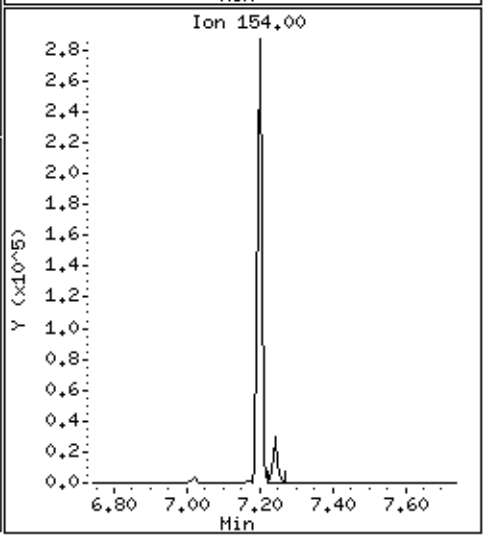
Concentration: 45.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

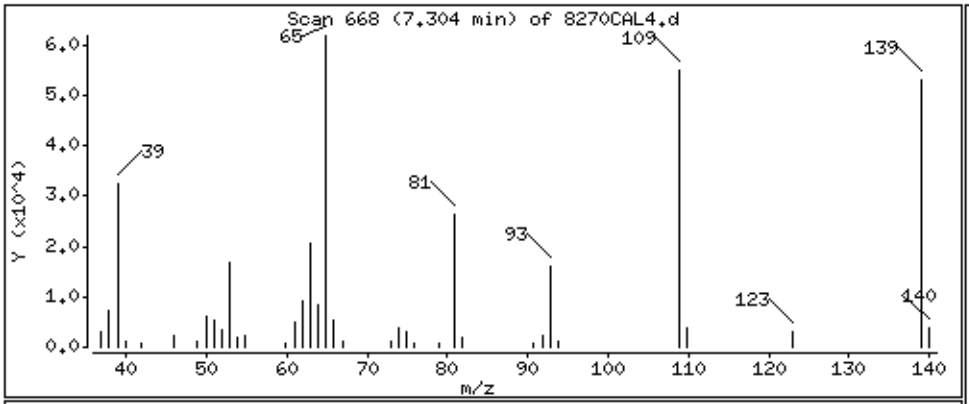
Operator: MJ

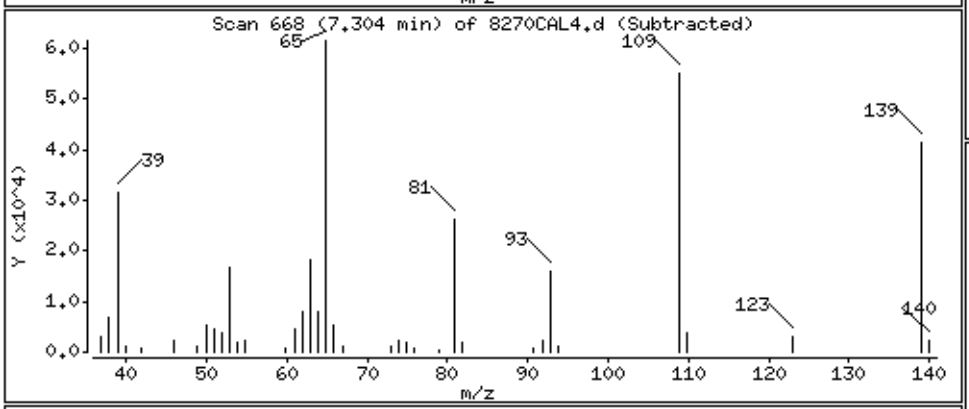
Column phase: HPMS-5

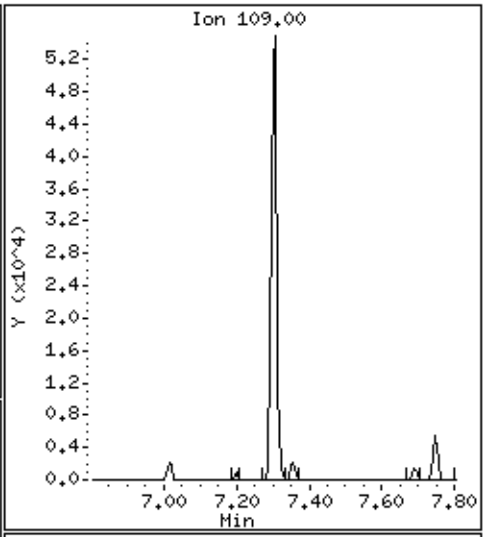
Column diameter: 0.25

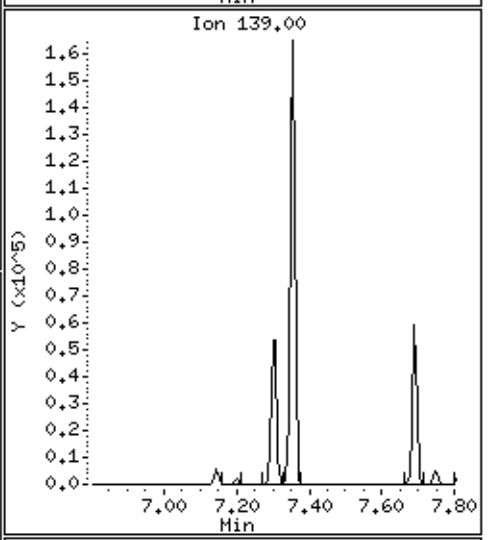
74 4-Nitrophenol

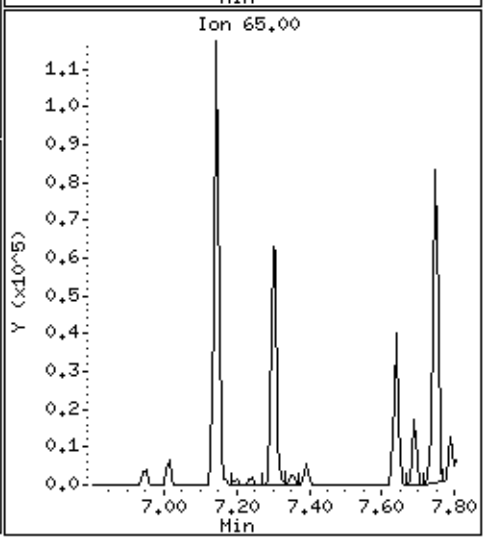
Concentration: 40.7 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

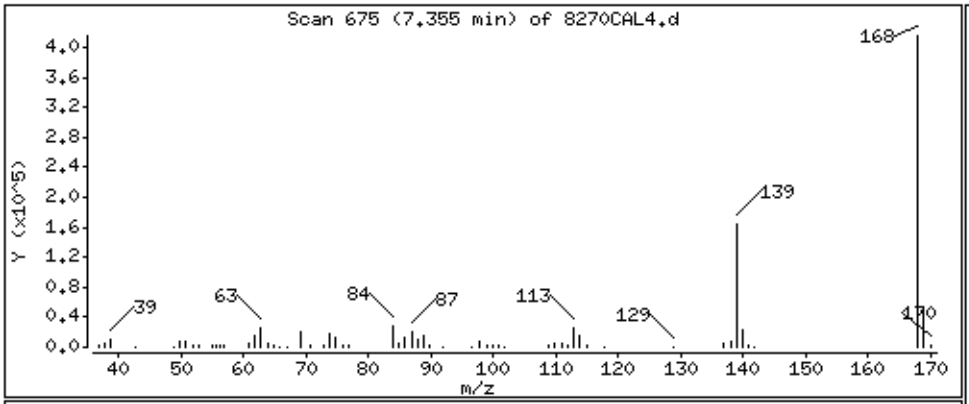
Operator: MJ

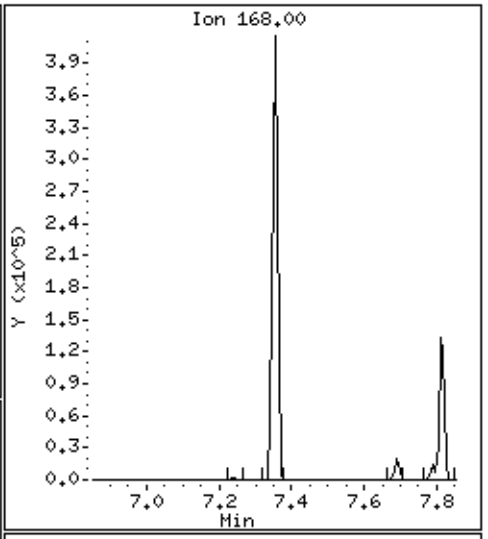
Column phase: HPMS-5

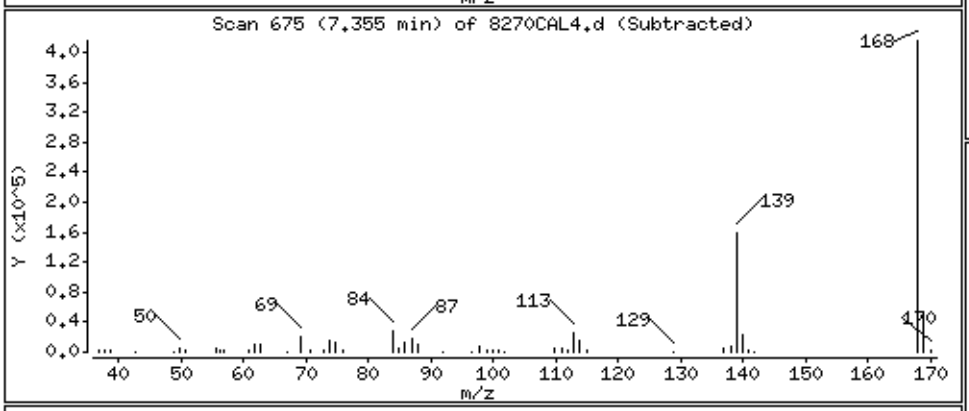
Column diameter: 0.25

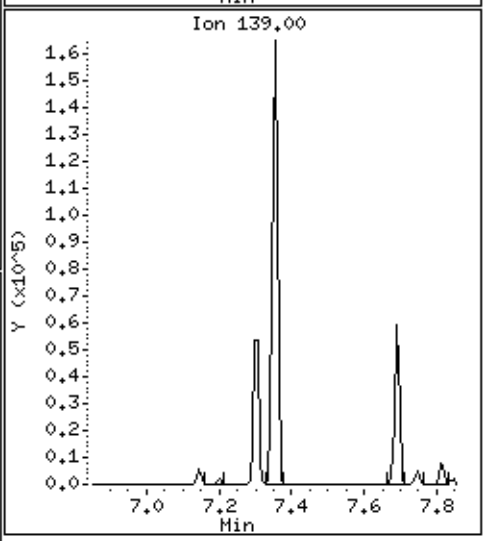
75 Dibenzofuran

Concentration: 43.7 ug/kg









Date : 14-NOV-2012 23:43

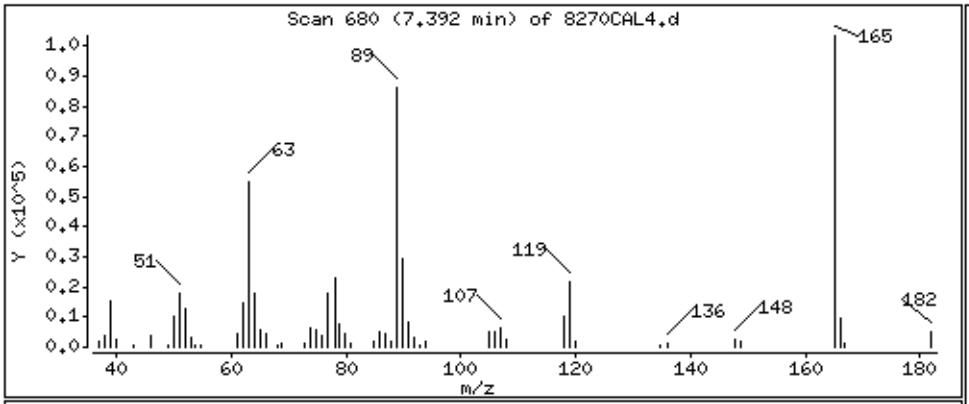
Client ID: 8270CAL4 Instrument: smsd04.i

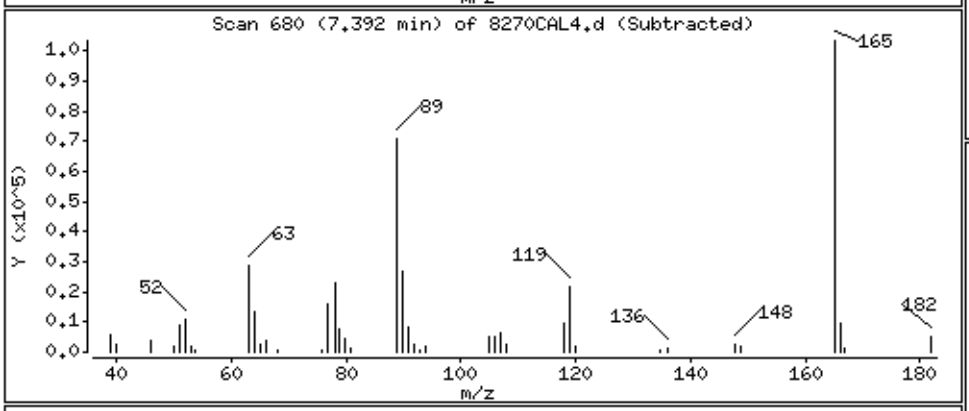
Sample Info: 47766

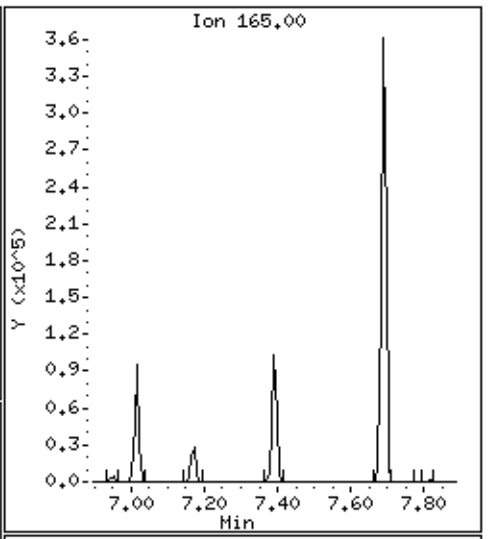
Operator: MJ

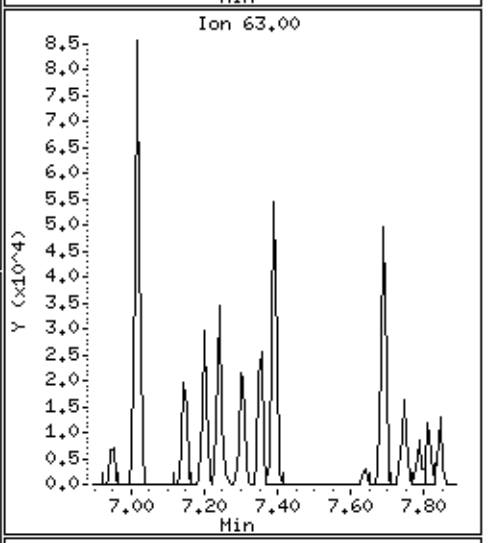
Column phase: HPMS-5 Column diameter: 0.25

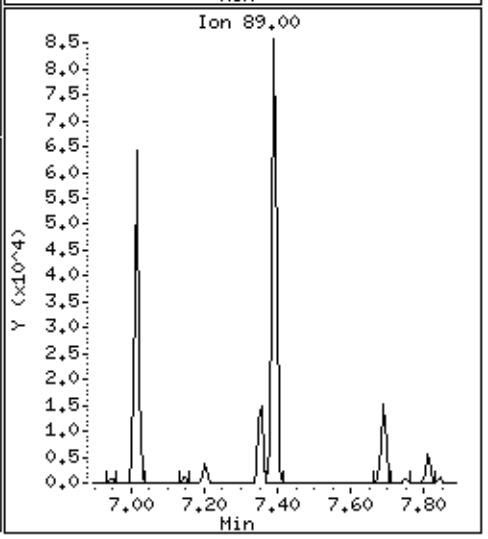
76 2,4-Dinitrotoluene Concentration: 42.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

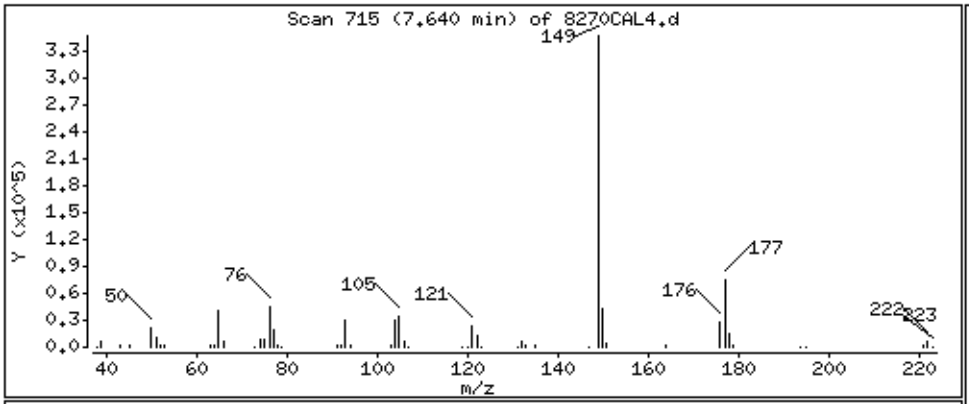
Operator: MJ

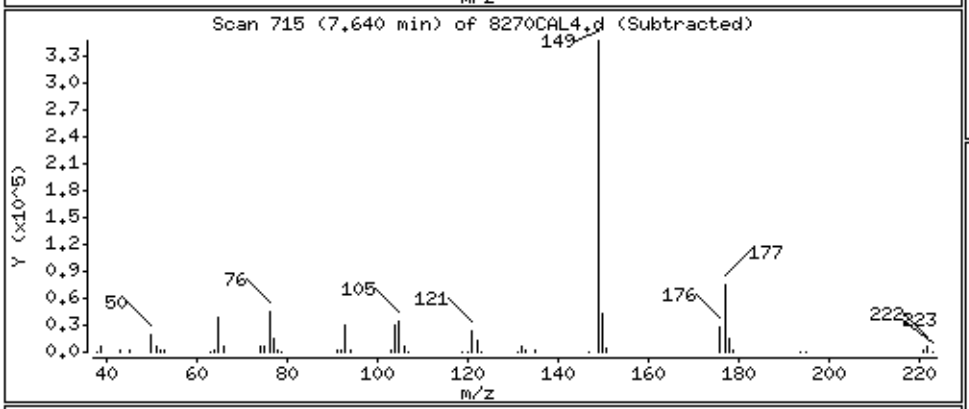
Column phase: HPMS-5

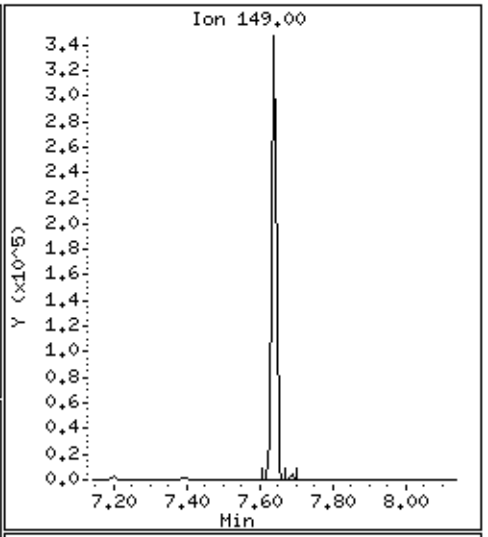
Column diameter: 0.25

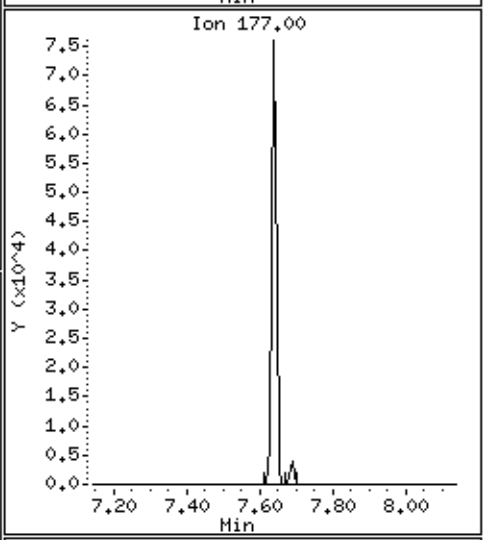
80 Diethylphthalate

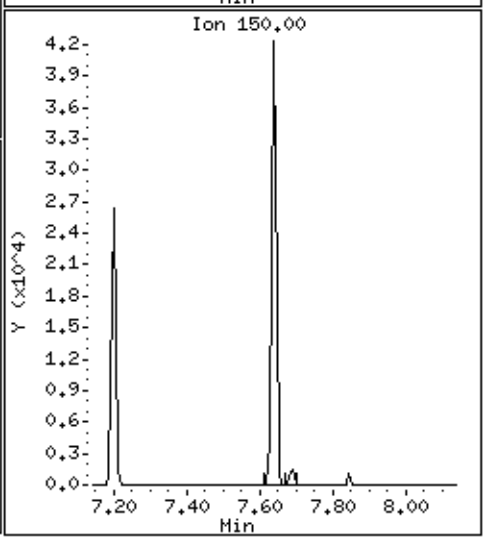
Concentration: 42.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

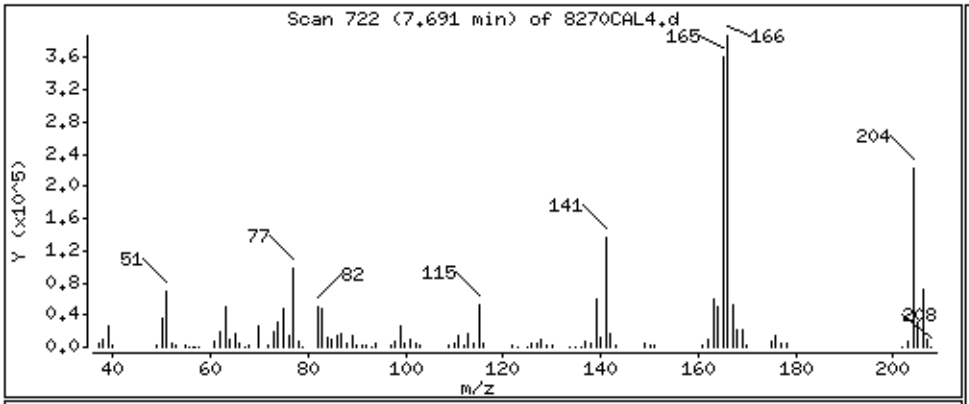
Operator: MJ

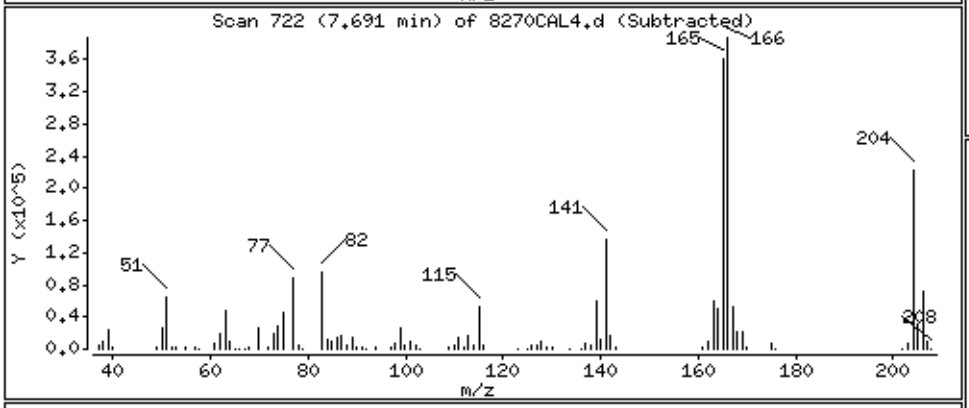
Column phase: HPMS-5

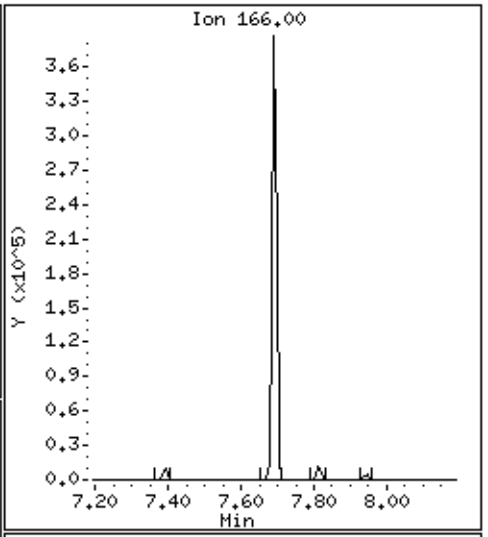
Column diameter: 0.25

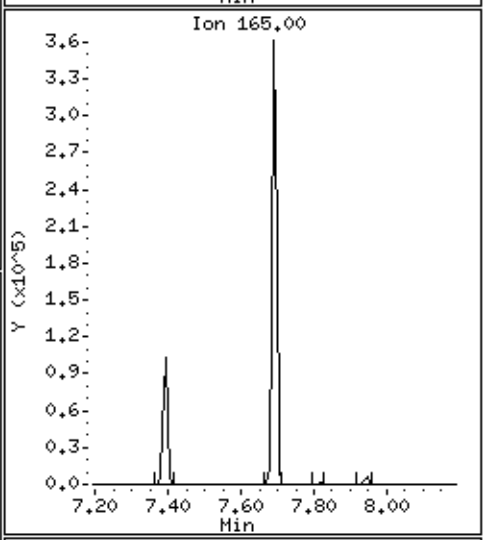
81 Fluorene

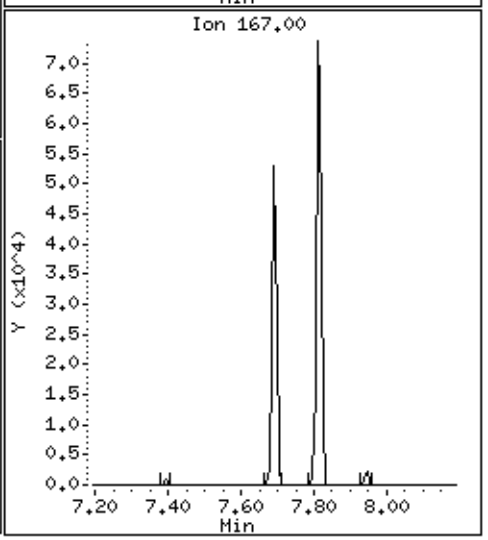
Concentration: 42.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

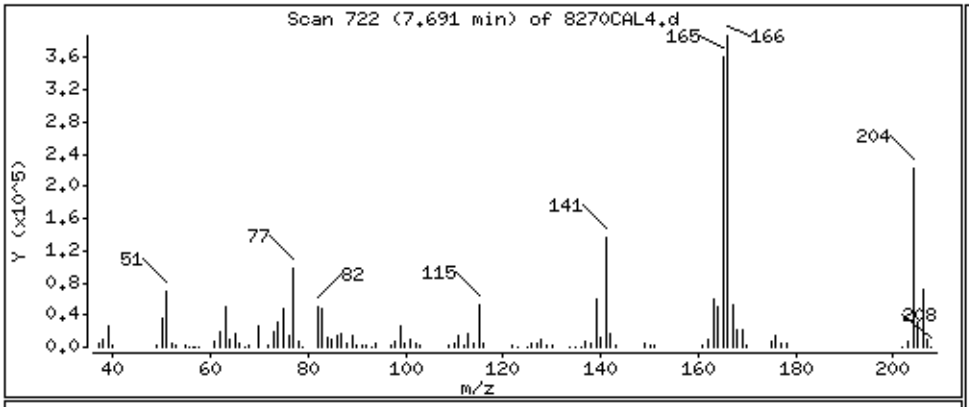
Client ID: 8270CAL4 Instrument: smsd04.i

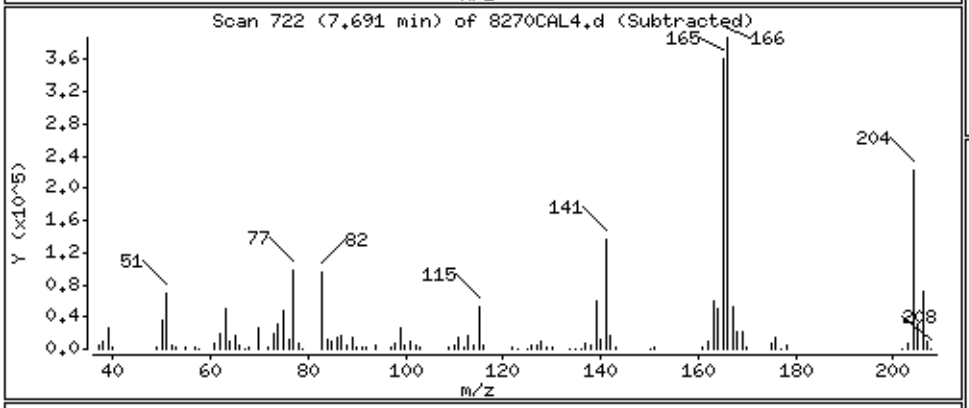
Sample Info: 47766

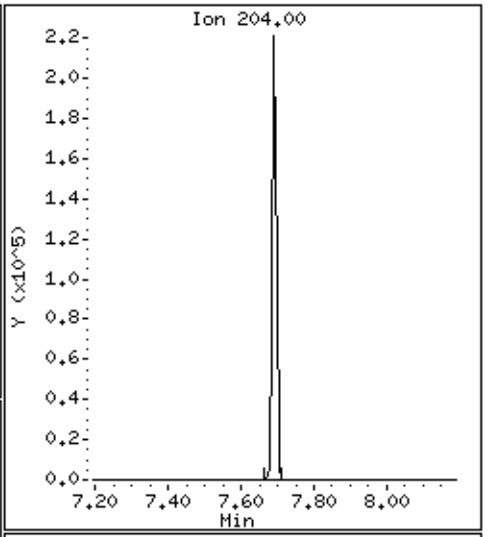
Operator: MJ

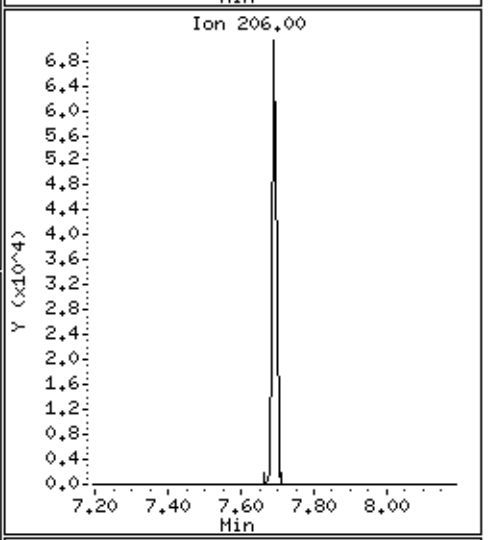
Column phase: HPMS-5 Column diameter: 0.25

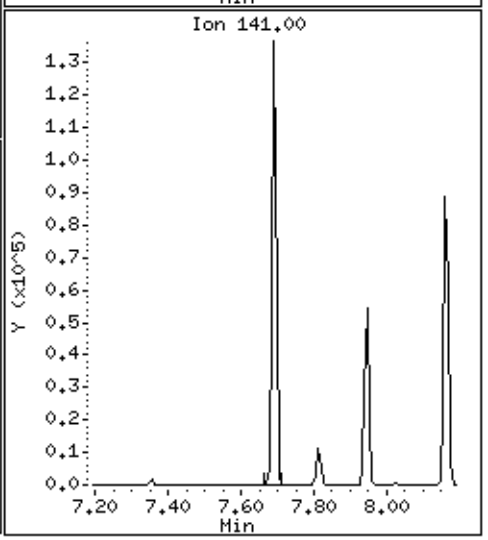
82 4-Chlorophenyl-phenylether Concentration: 43.0 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

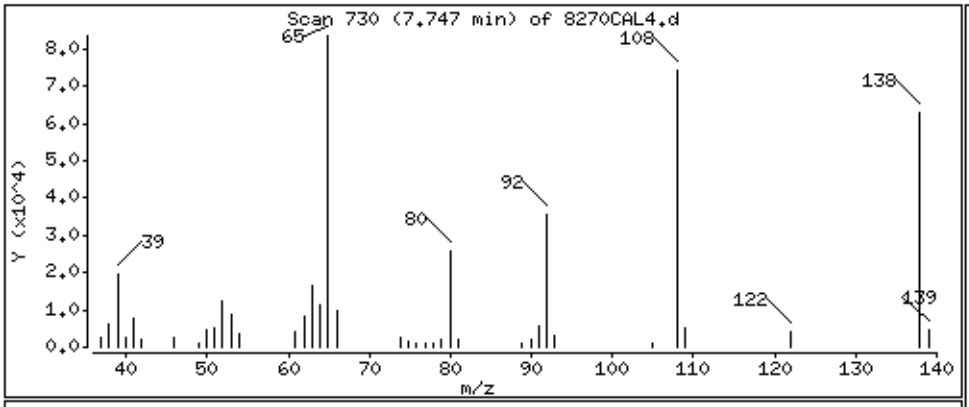
Operator: MJ

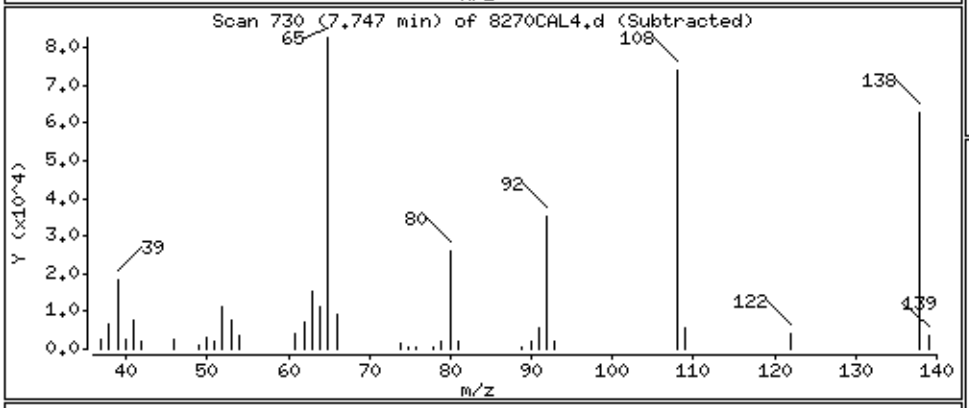
Column phase: HPMS-5

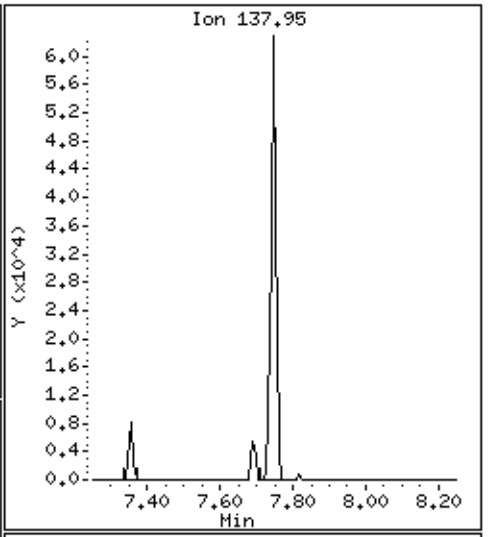
Column diameter: 0.25

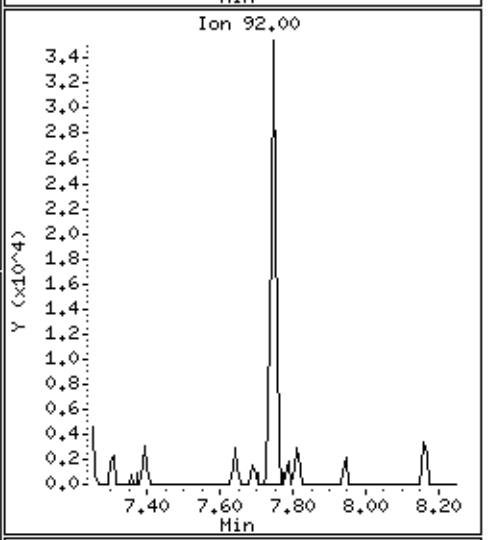
84 4-Nitroaniline

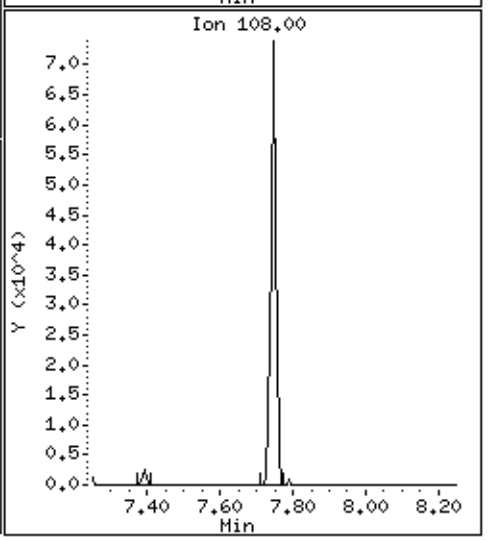
Concentration: 42.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

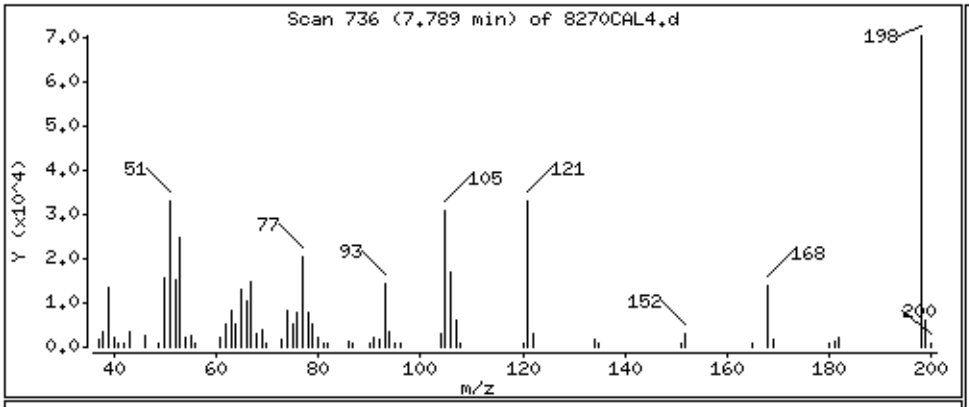
Operator: MJ

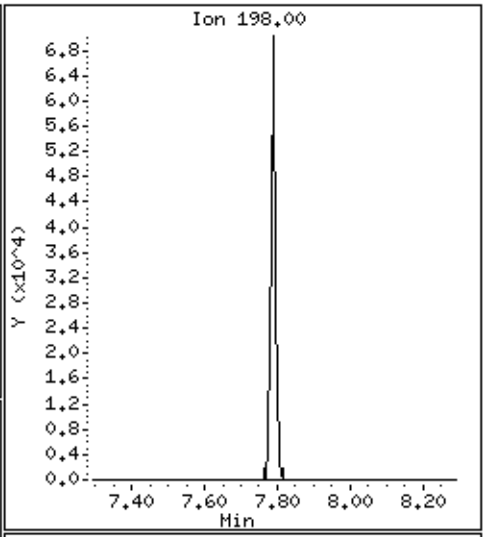
Column phase: HPMS-5

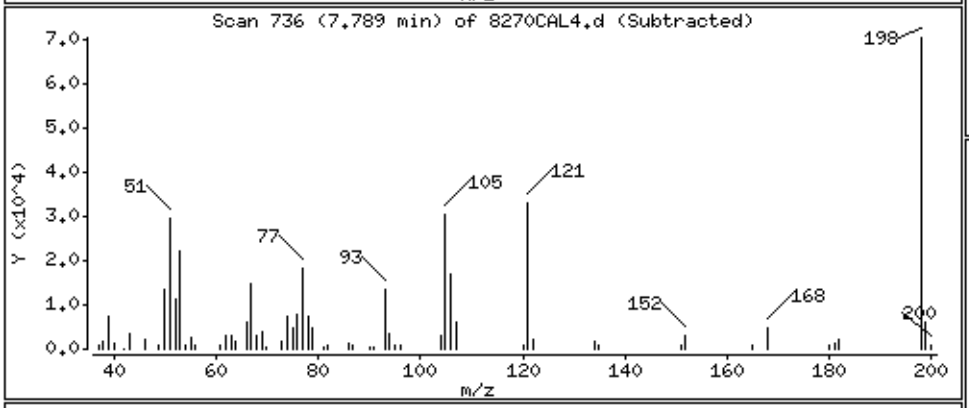
Column diameter: 0.25

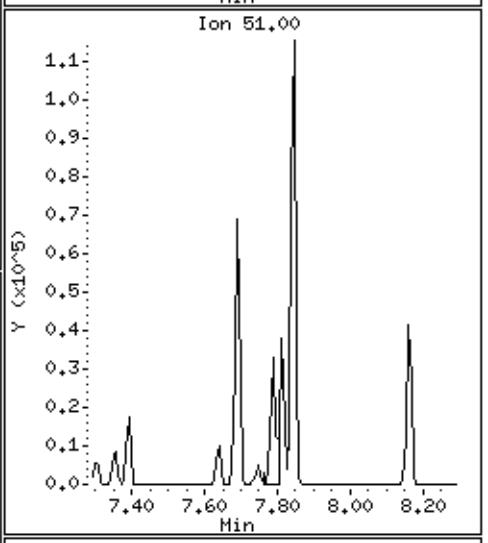
85 4,6-Dinitro-2-methylphenol

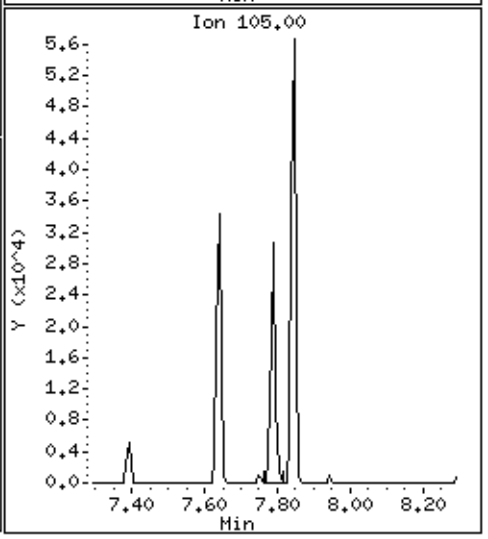
Concentration: 43.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

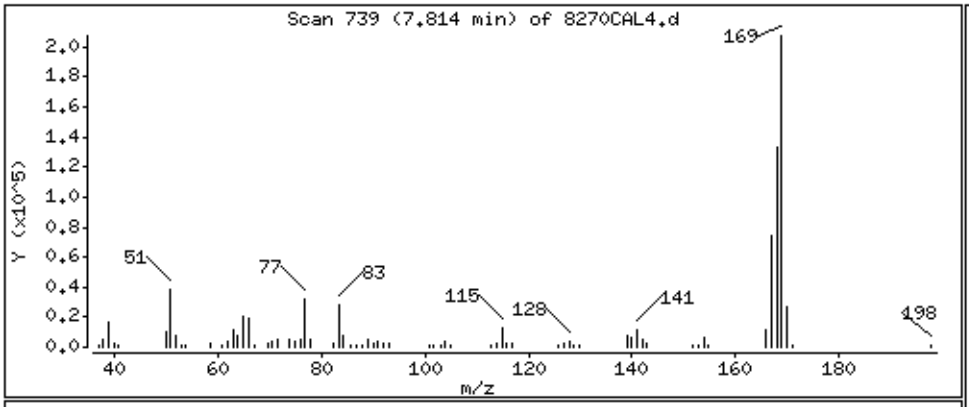
Operator: MJ

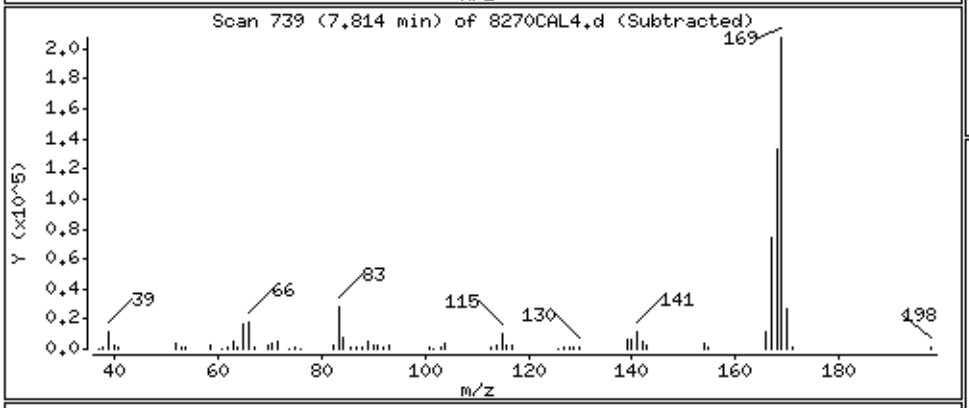
Column phase: HPMS-5

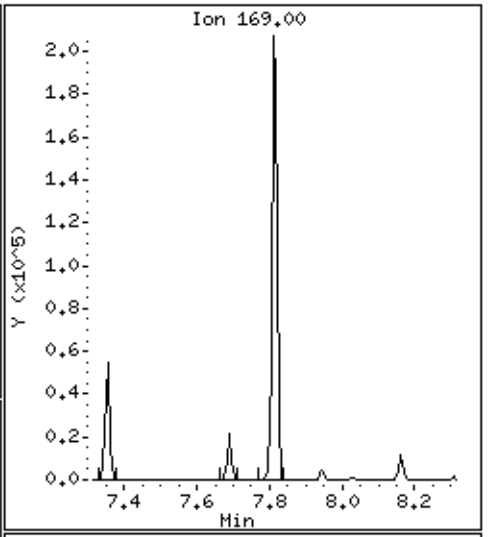
Column diameter: 0.25

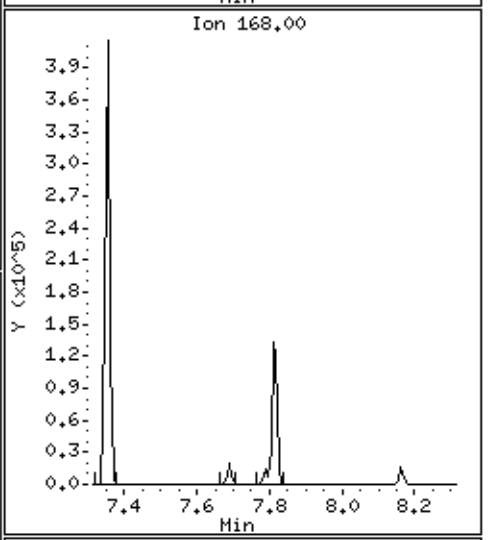
86 N-Nitrosodiphenylamine

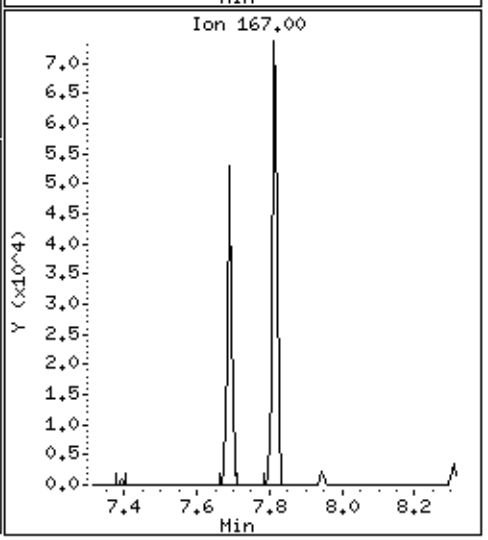
Concentration: 45.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

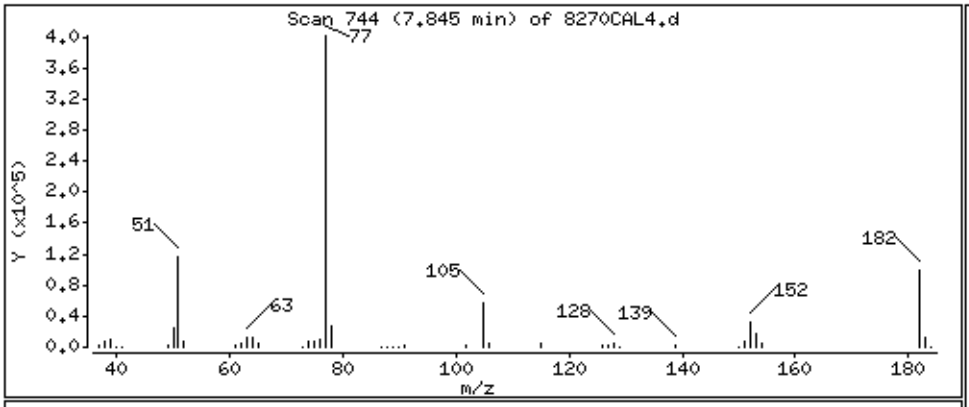
Operator: MJ

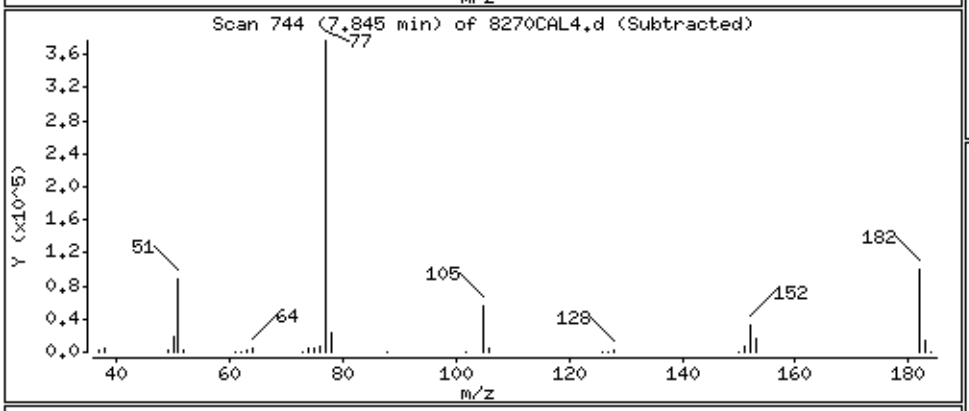
Column phase: HPMS-5

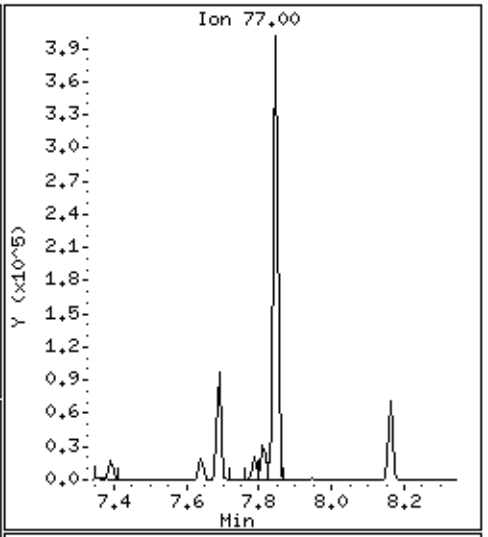
Column diameter: 0.25

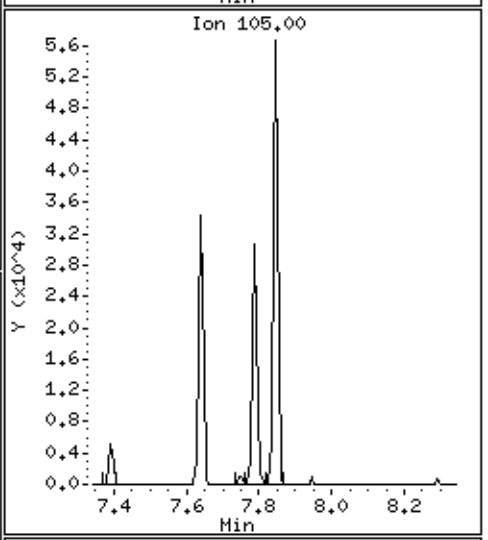
87 1,2-Diphenylhydrazine

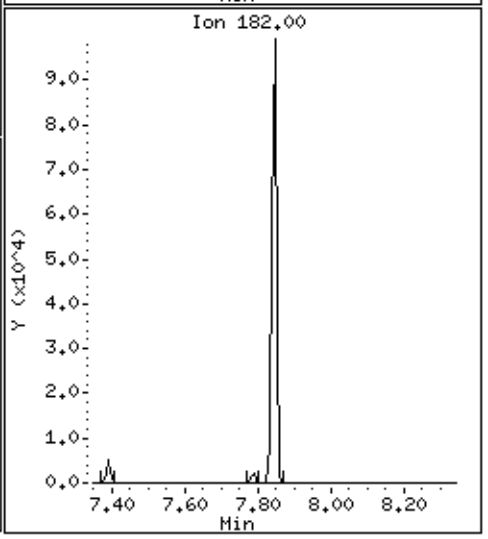
Concentration: 43.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

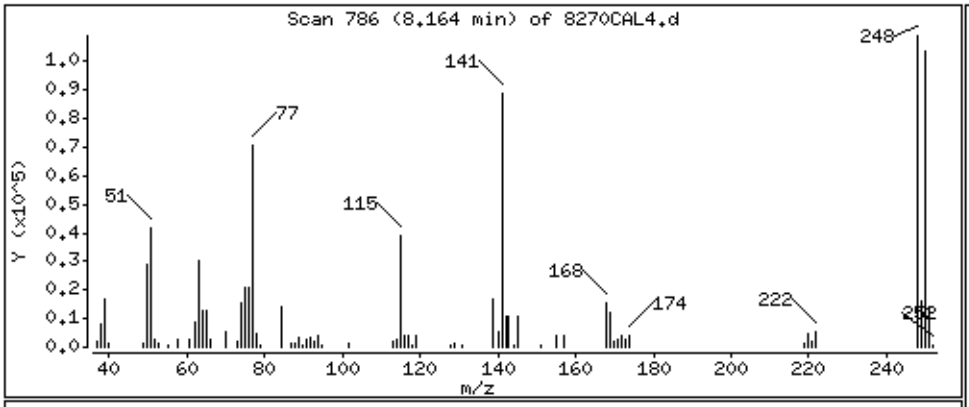
Operator: MJ

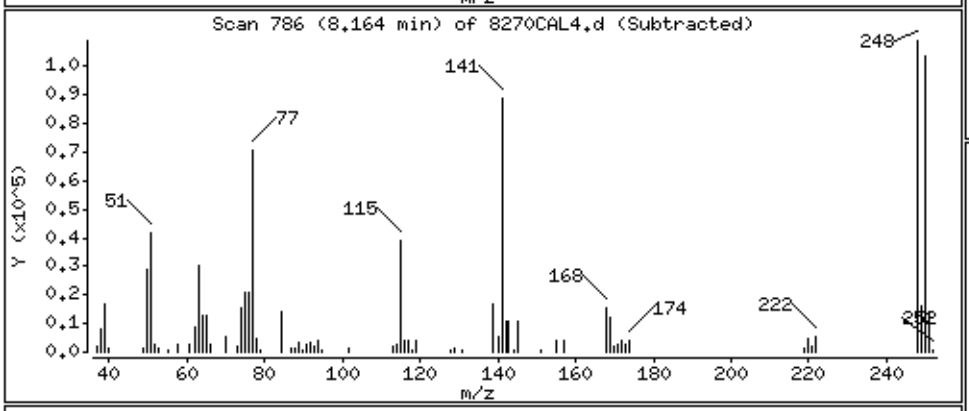
Column phase: HPMS-5

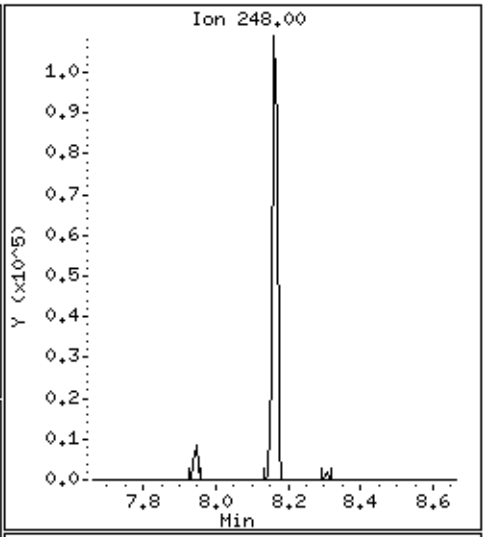
Column diameter: 0.25

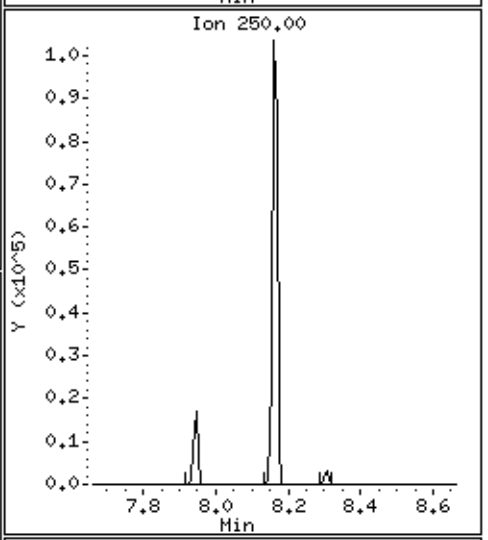
93 4-Bromophenylphenylether

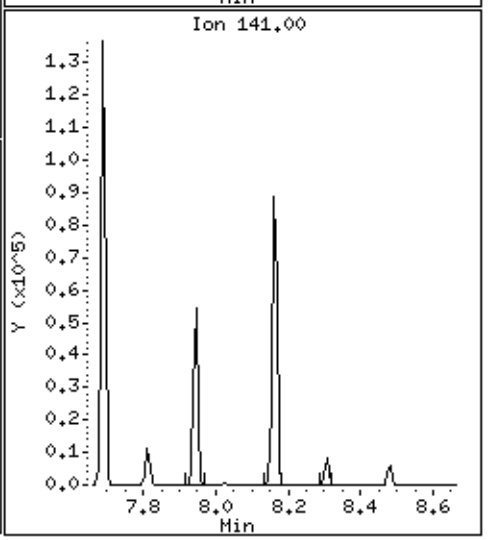
Concentration: 45.6 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

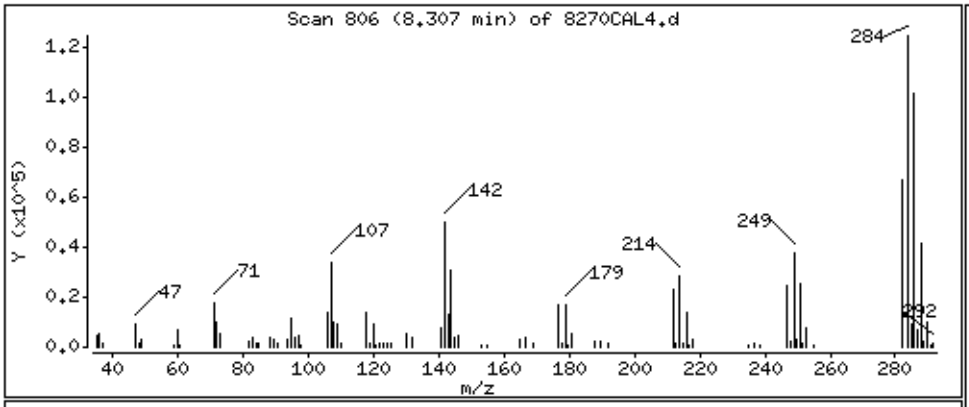
Operator: MJ

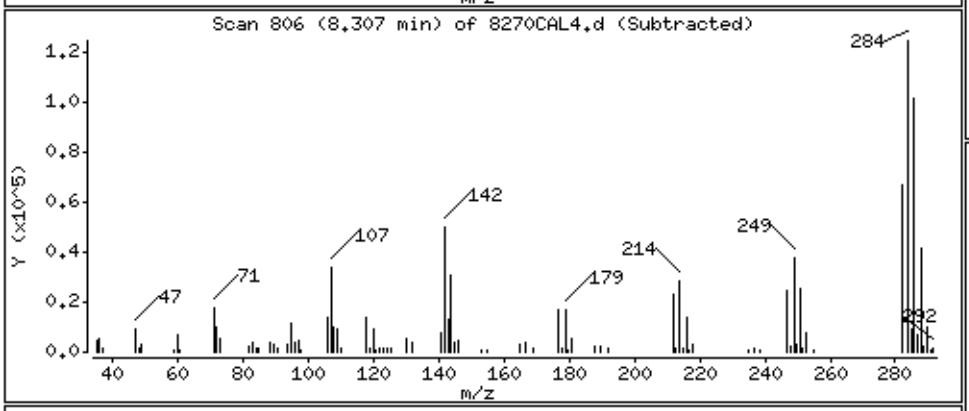
Column phase: HPMS-5

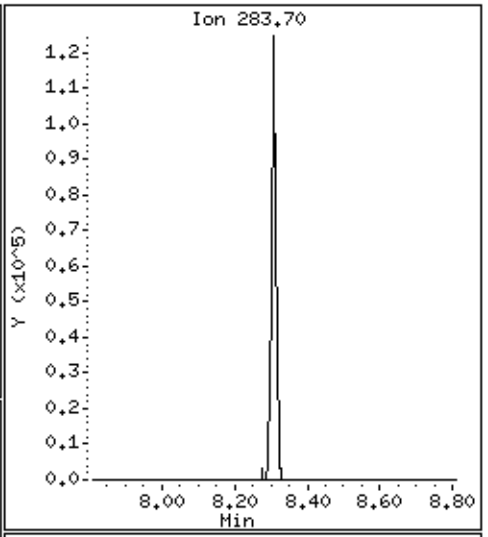
Column diameter: 0.25

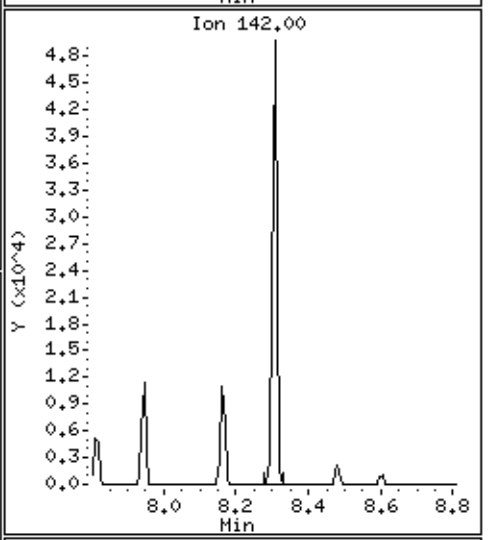
94 Hexachlorobenzene

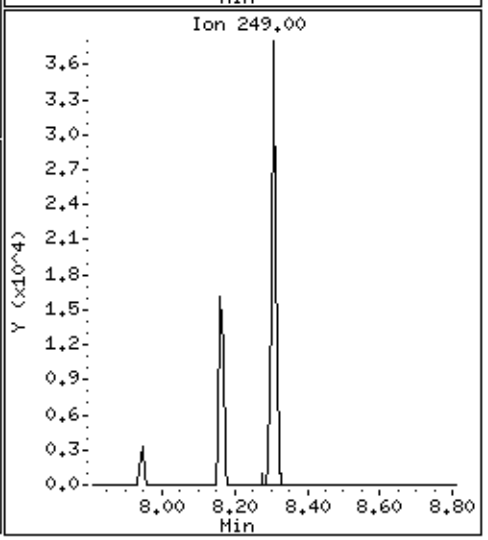
Concentration: 44.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

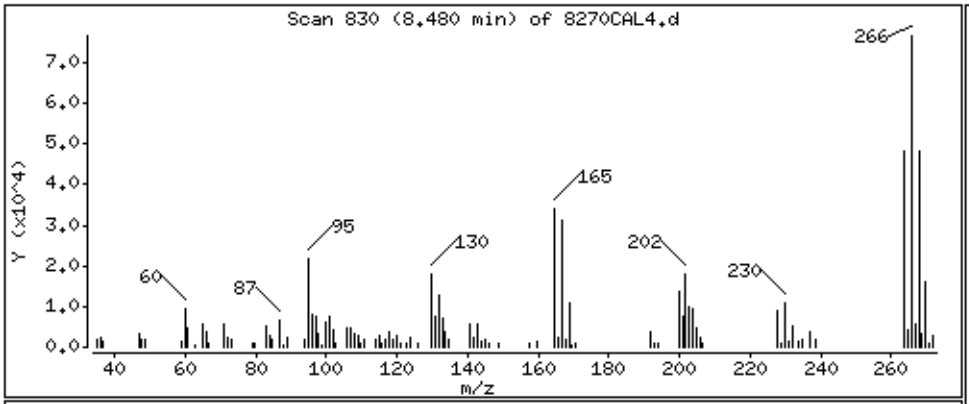
Client ID: 8270CAL4 Instrument: smsd04.i

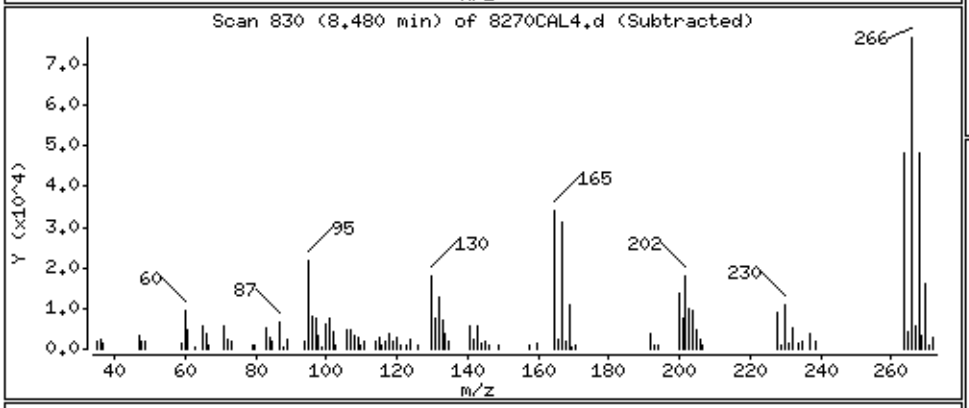
Sample Info: 47766

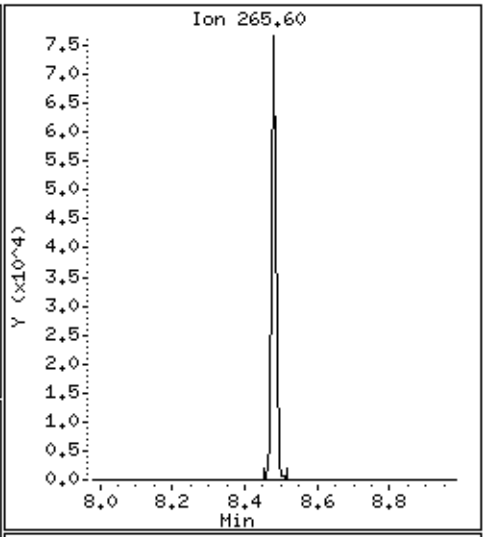
Operator: MJ

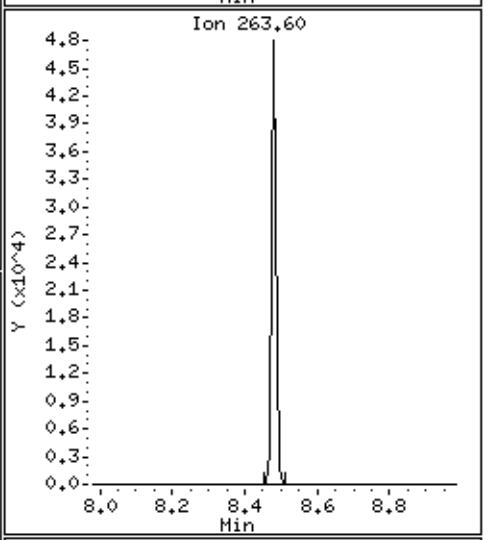
Column phase: HPMS-5 Column diameter: 0.25

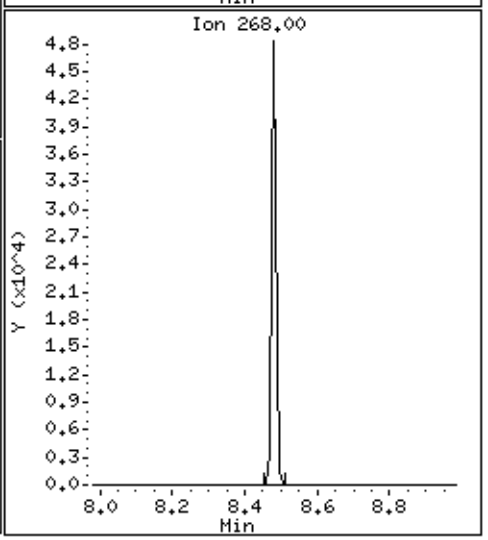
96 Pentachlorophenol Concentration: 45.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

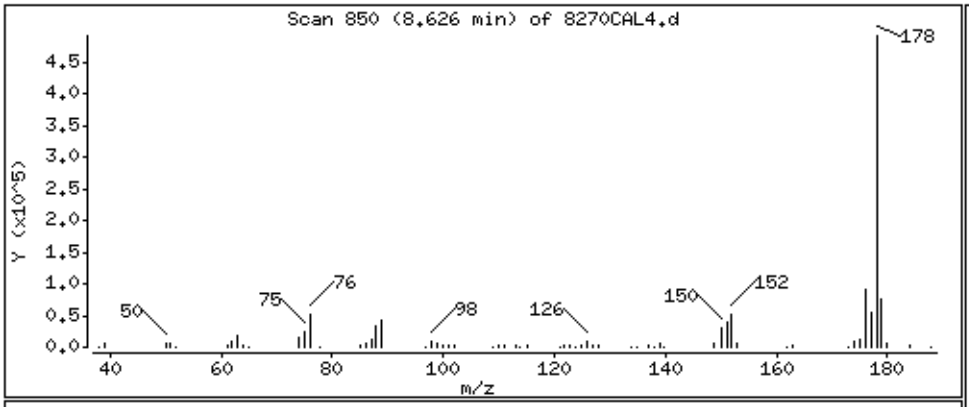
Operator: MJ

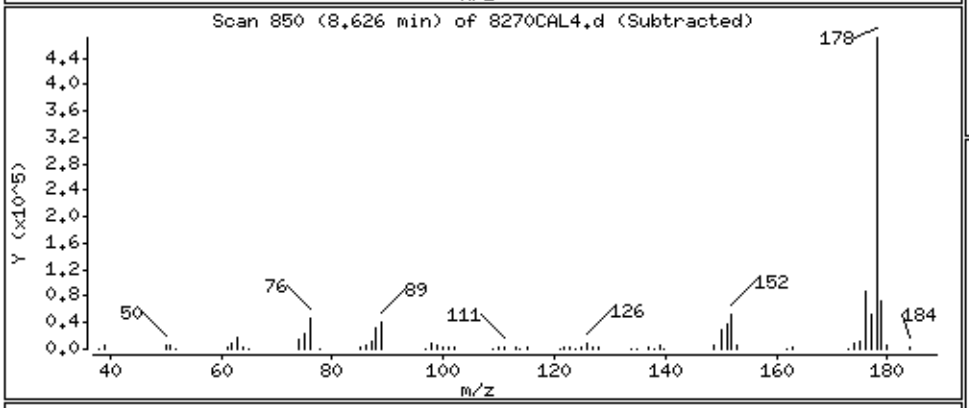
Column phase: HPMS-5

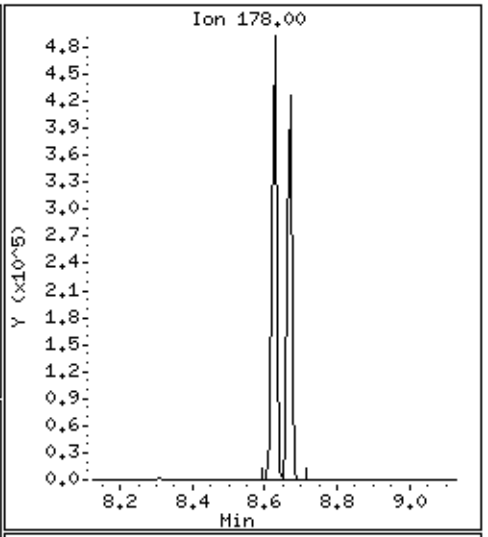
Column diameter: 0.25

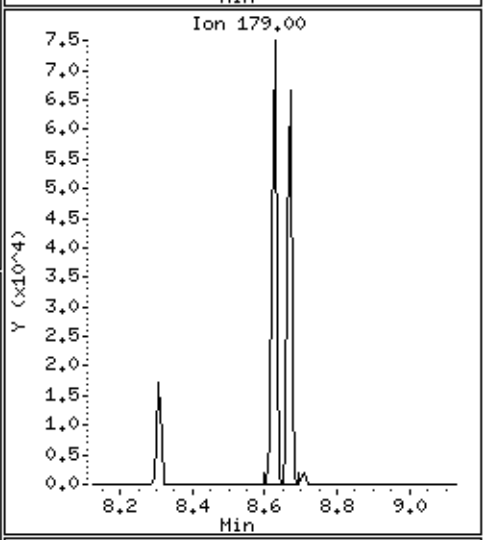
101 Phenanthrene

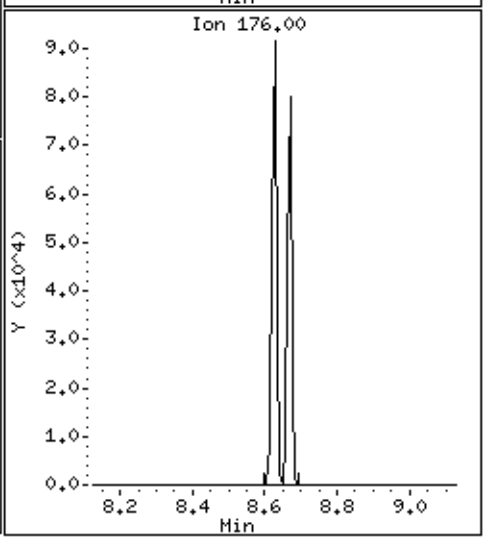
Concentration: 44.2 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

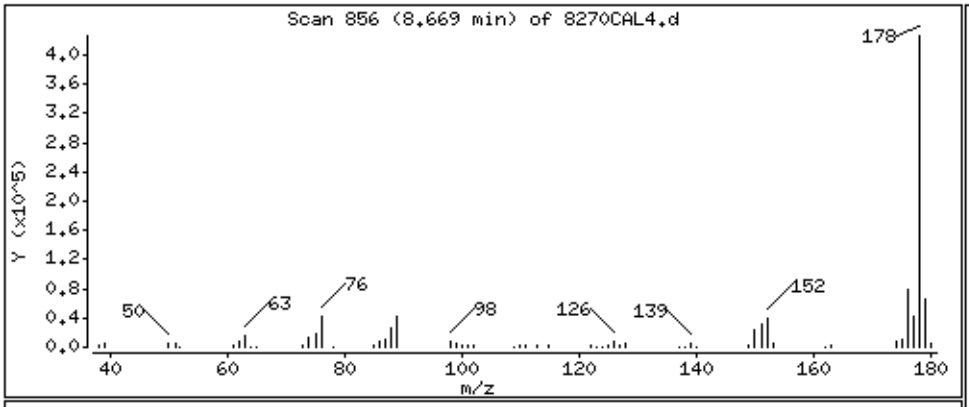
Operator: MJ

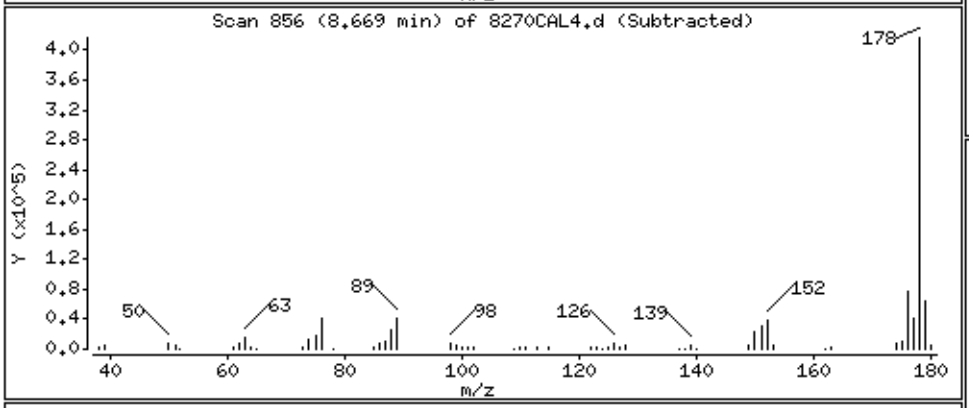
Column phase: HPMS-5

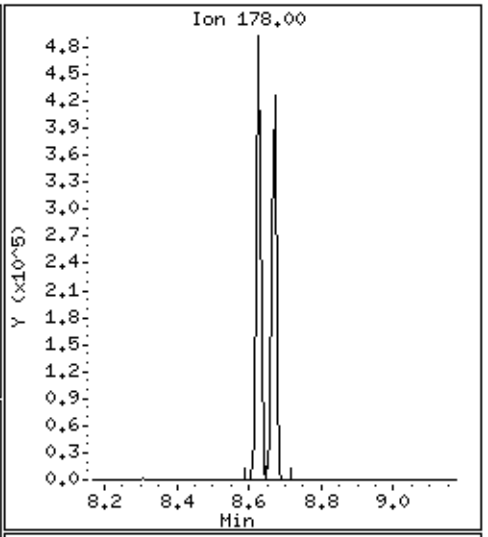
Column diameter: 0.25

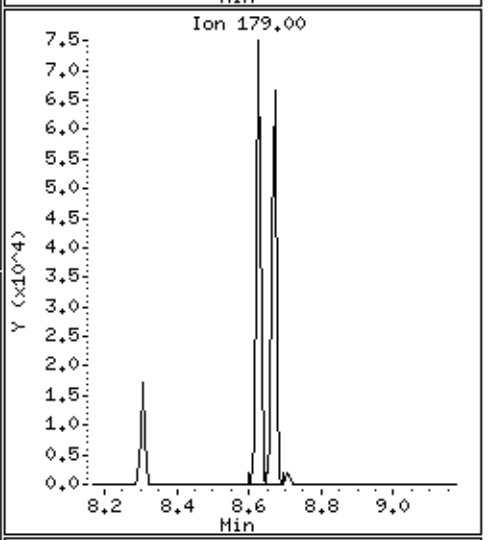
103 Anthracene

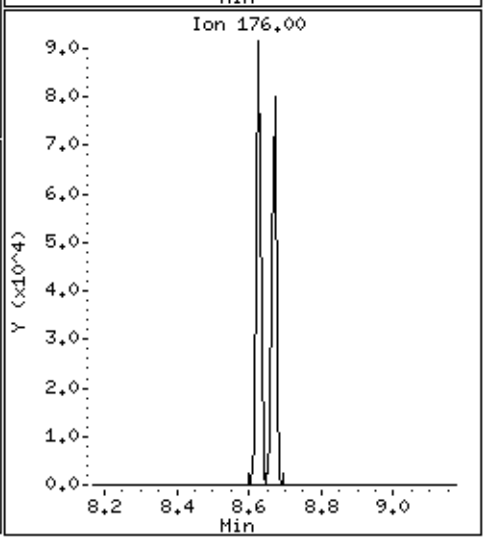
Concentration: 44.0 ug/kg











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Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

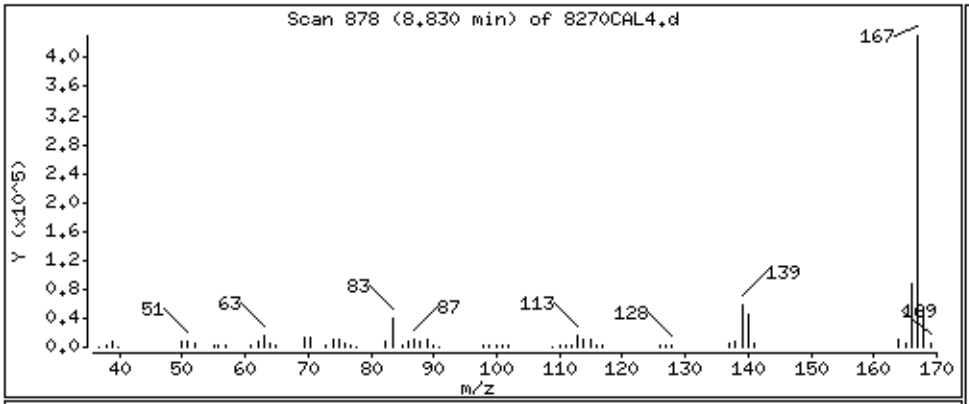
Operator: MJ

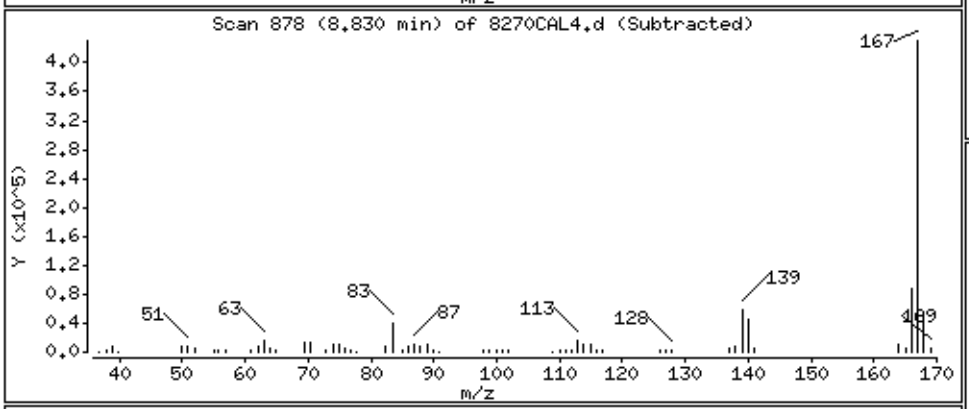
Column phase: HPMS-5

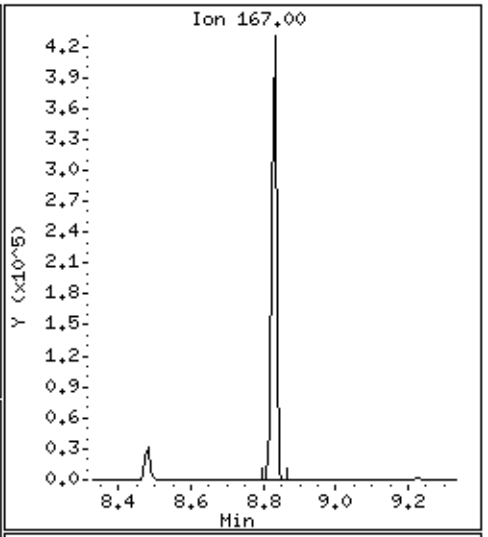
Column diameter: 0.25

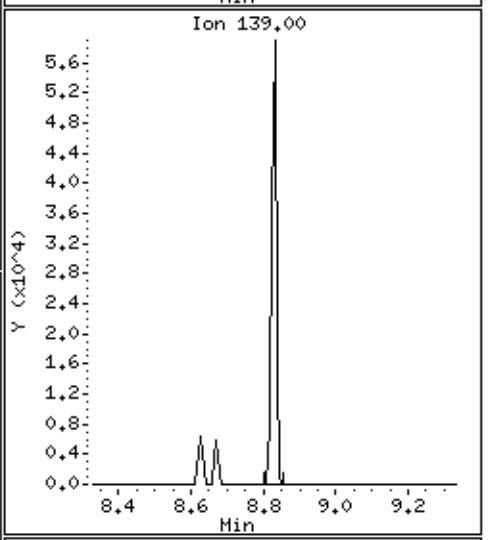
104 Carbazole

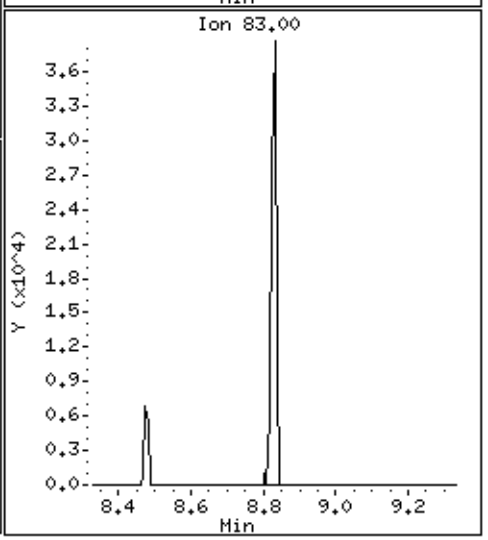
Concentration: 45.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

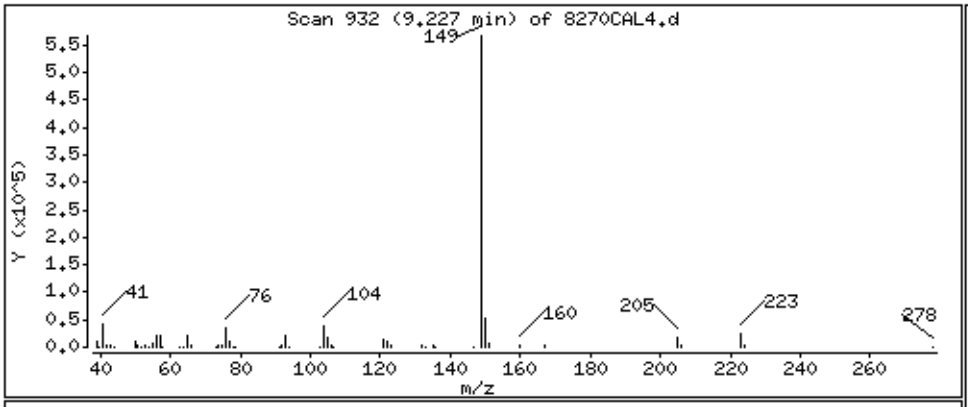
Operator: MJ

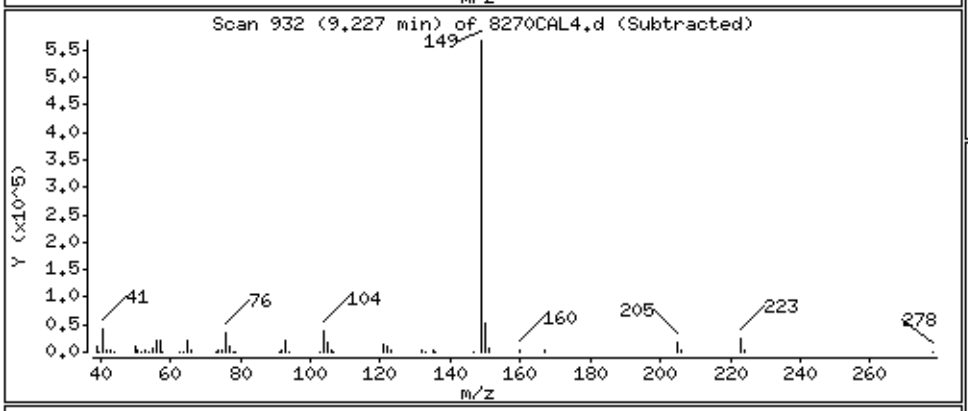
Column phase: HPMS-5

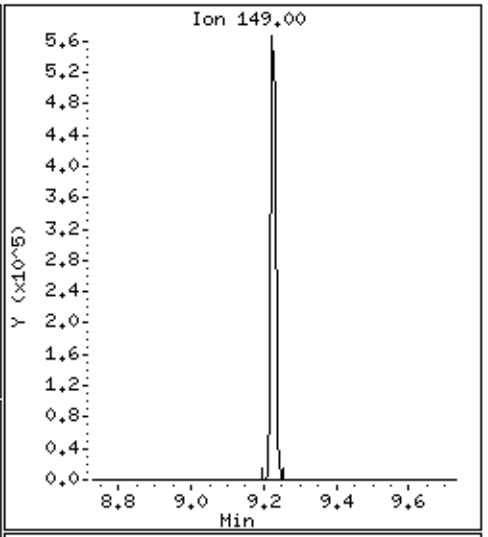
Column diameter: 0.25

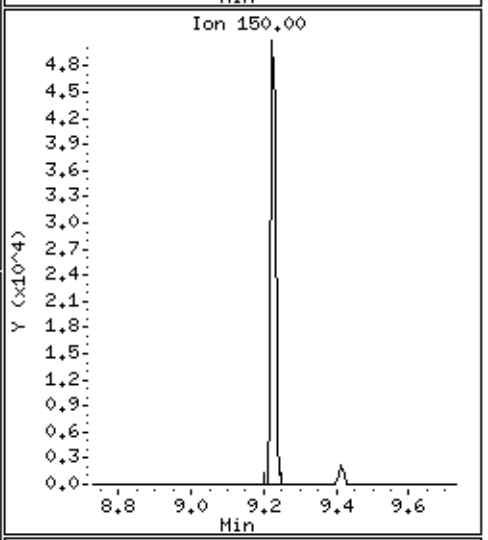
105 Di-n-butylphthalate

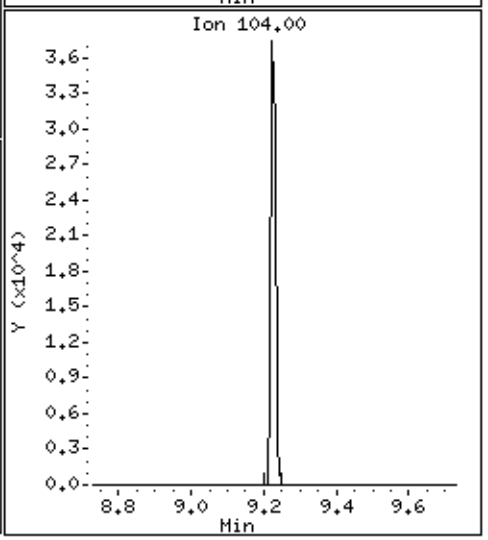
Concentration: 44.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

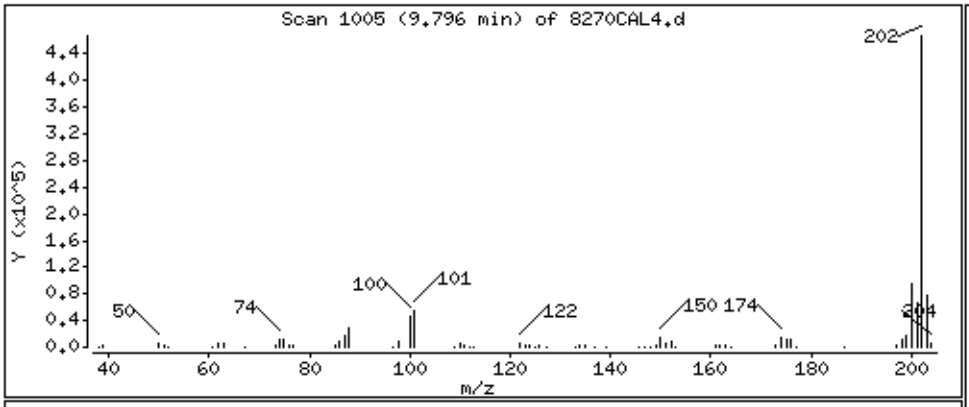
Operator: MJ

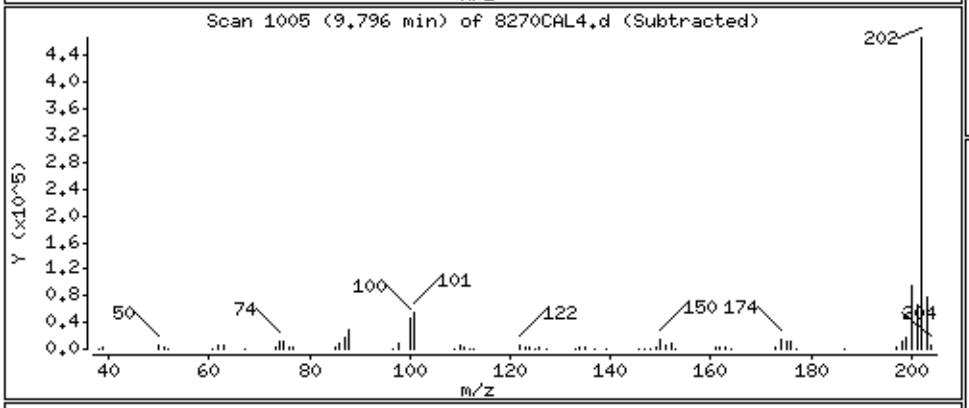
Column phase: HPMS-5

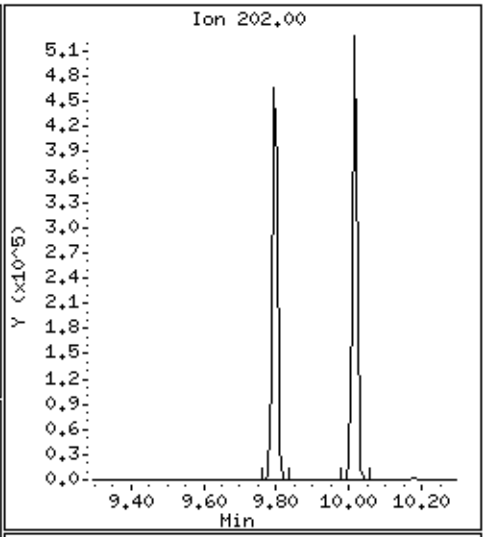
Column diameter: 0.25

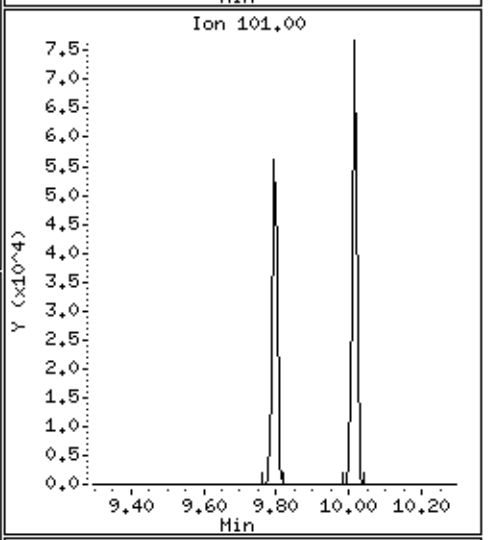
109 Fluoranthene

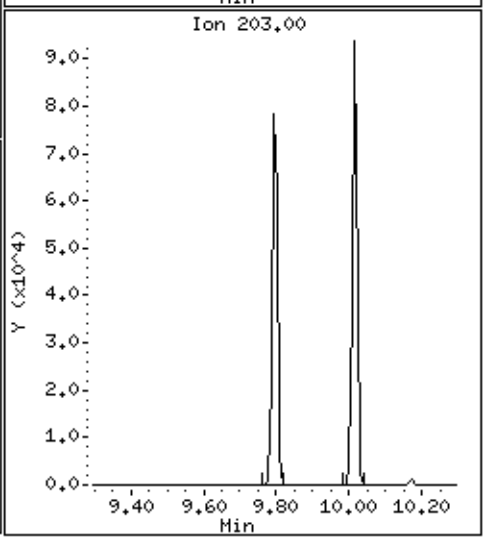
Concentration: 44.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

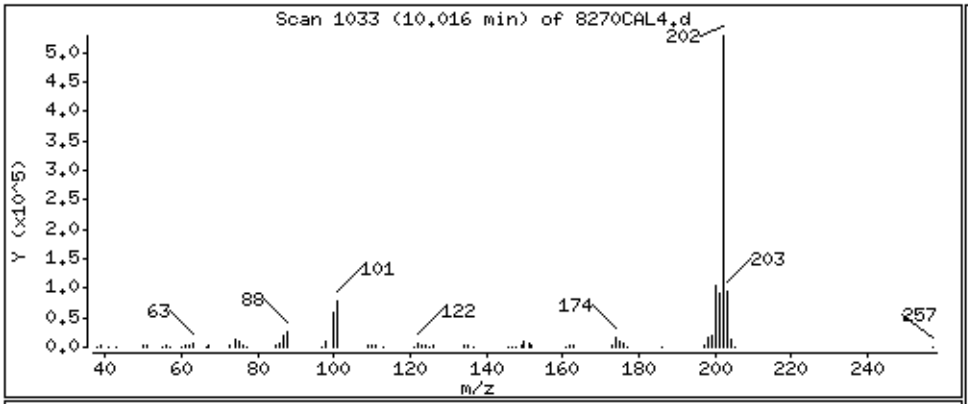
Operator: MJ

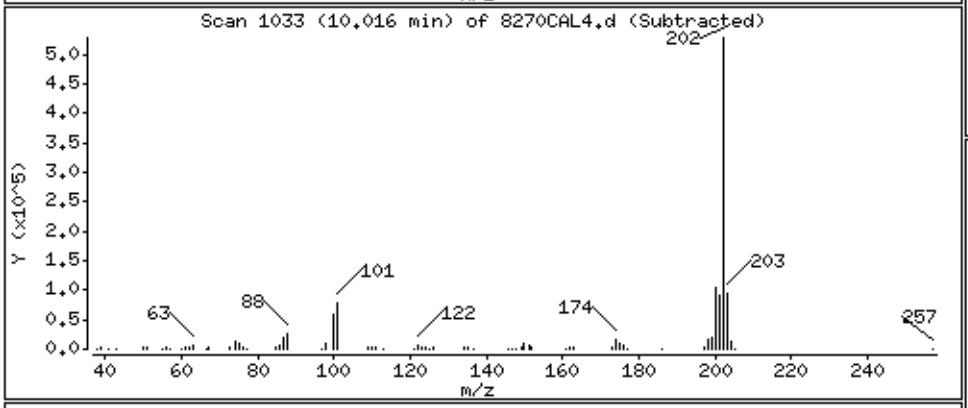
Column phase: HPMS-5

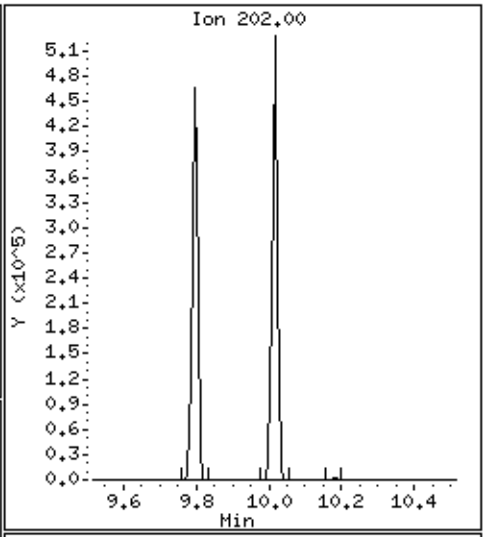
Column diameter: 0.25

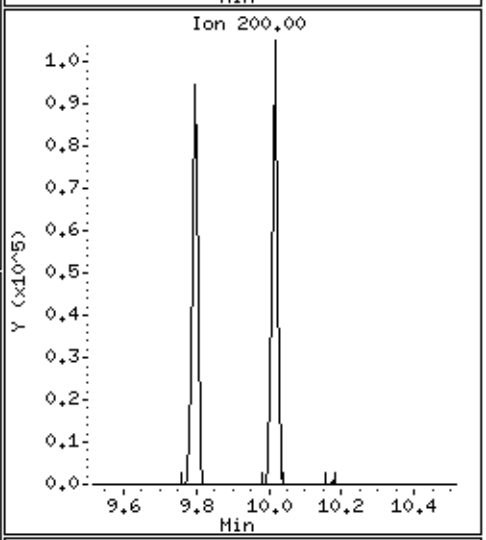
111 Pyrene

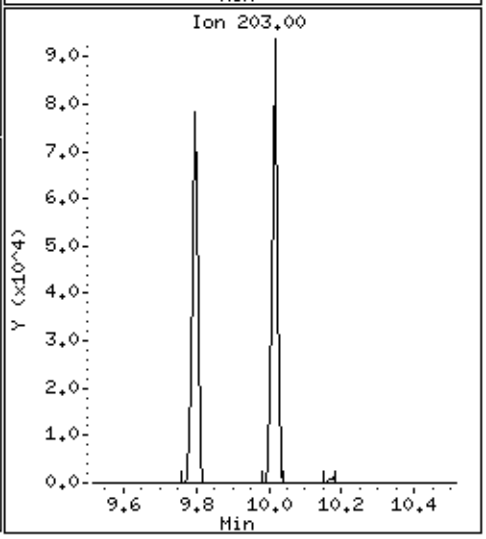
Concentration: 45.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

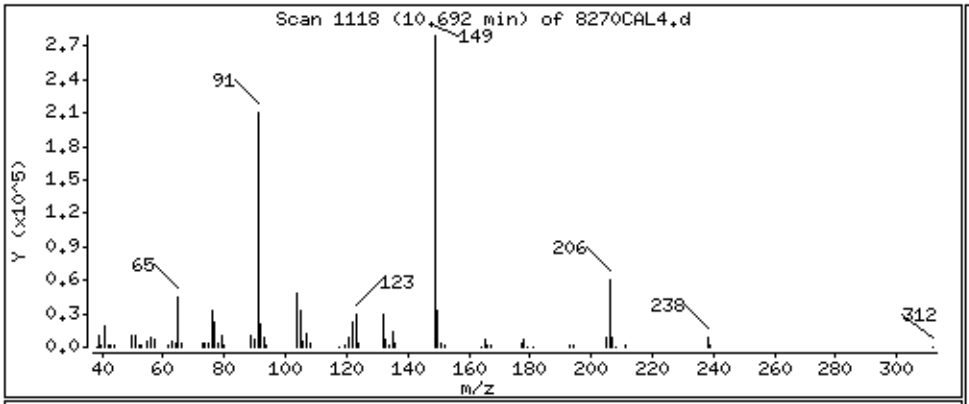
Operator: MJ

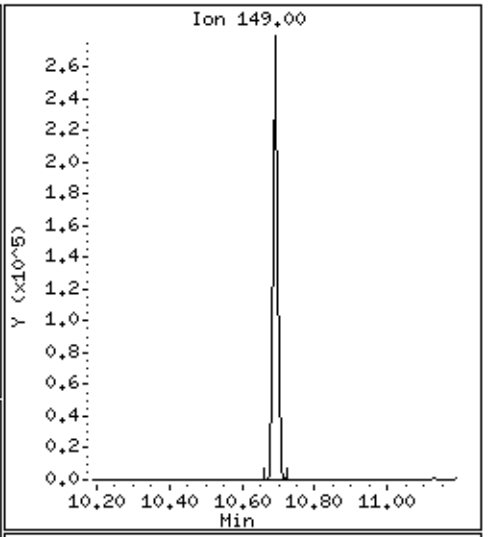
Column phase: HPMS-5

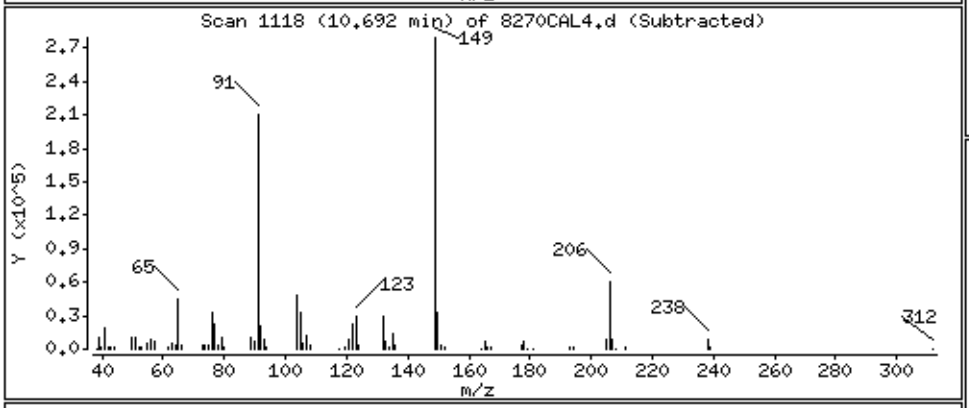
Column diameter: 0.25

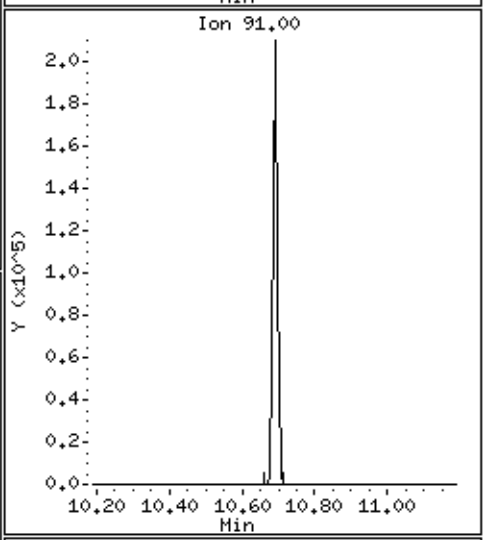
118 Butylbenzylphthalate

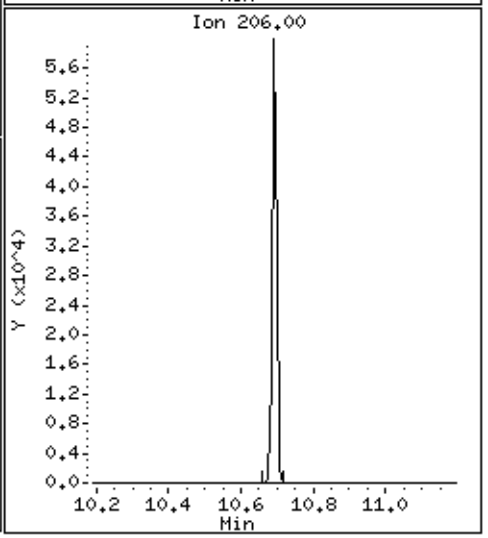
Concentration: 44.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

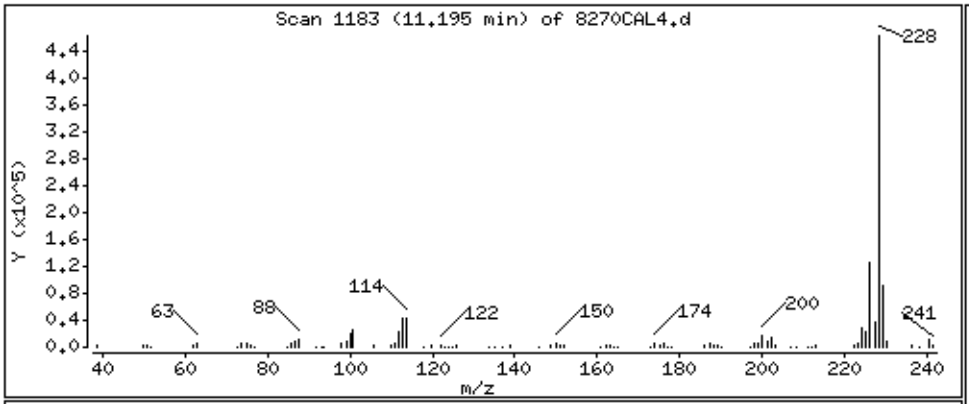
Client ID: 8270CAL4 Instrument: smsd04.i

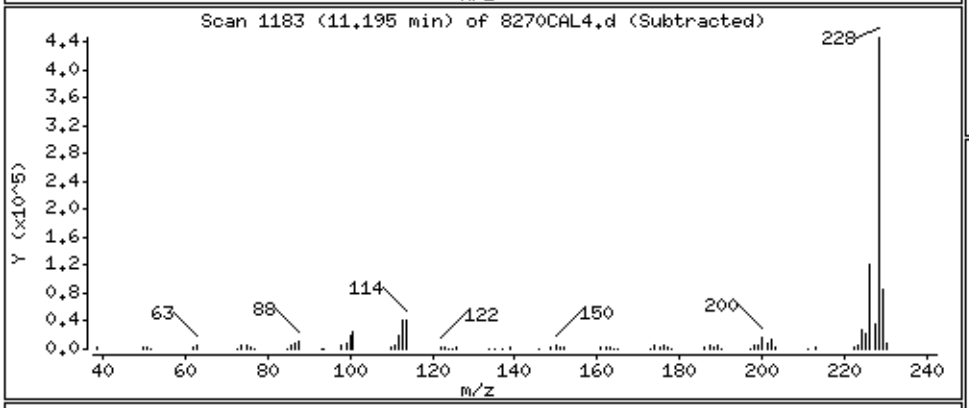
Sample Info: 47766

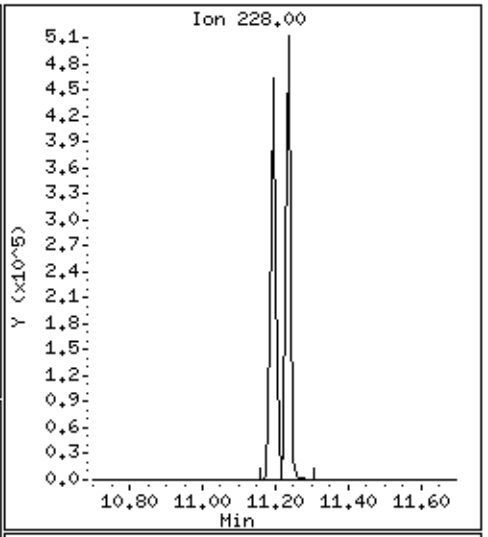
Operator: MJ

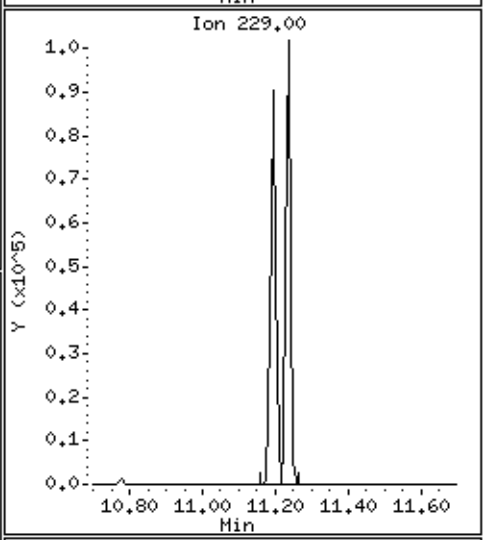
Column phase: HPMS-5 Column diameter: 0.25

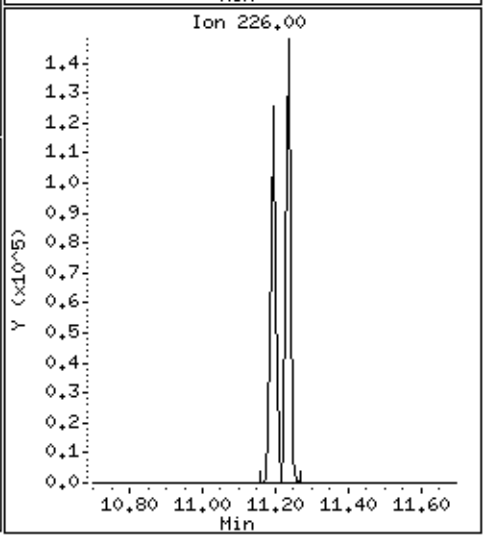
120 Benzo[a]anthracene Concentration: 43.4 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

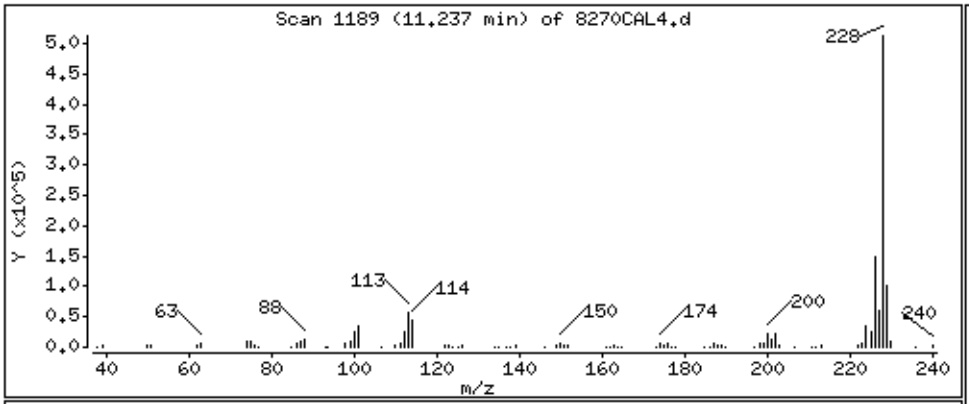
Operator: MJ

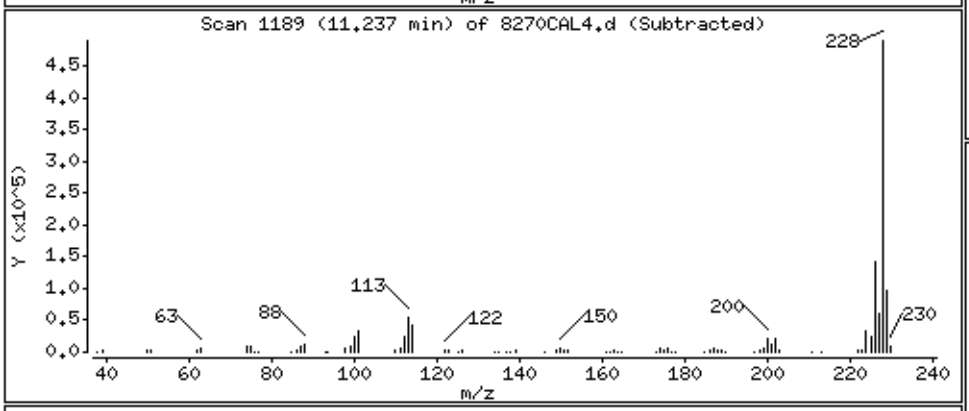
Column phase: HPMS-5

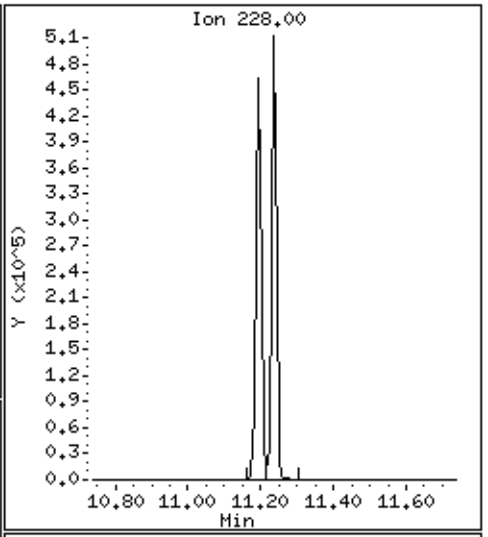
Column diameter: 0.25

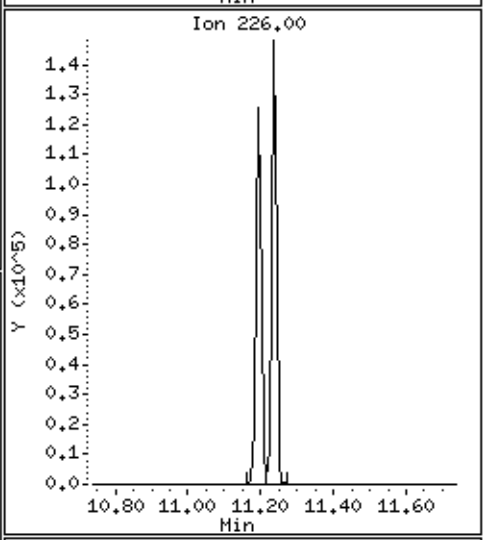
123 Chrysene

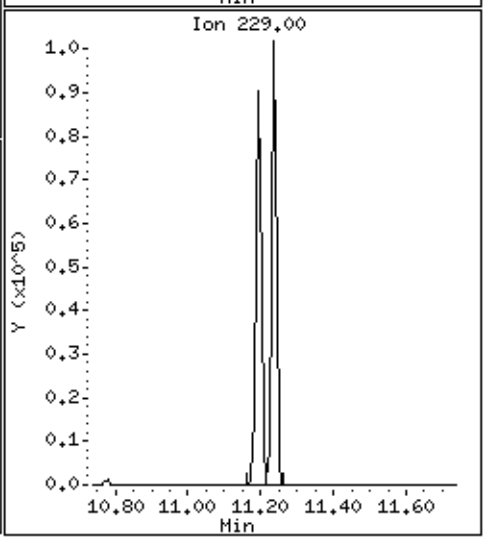
Concentration: 43.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

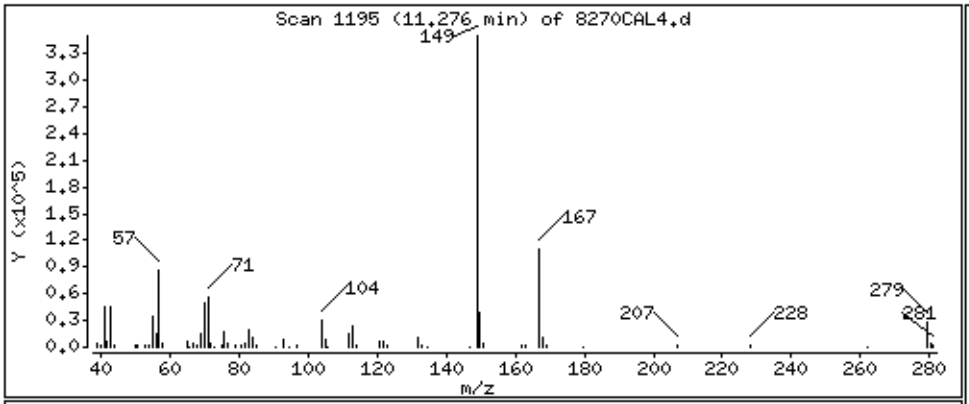
Client ID: 8270CAL4 Instrument: smsd04.i

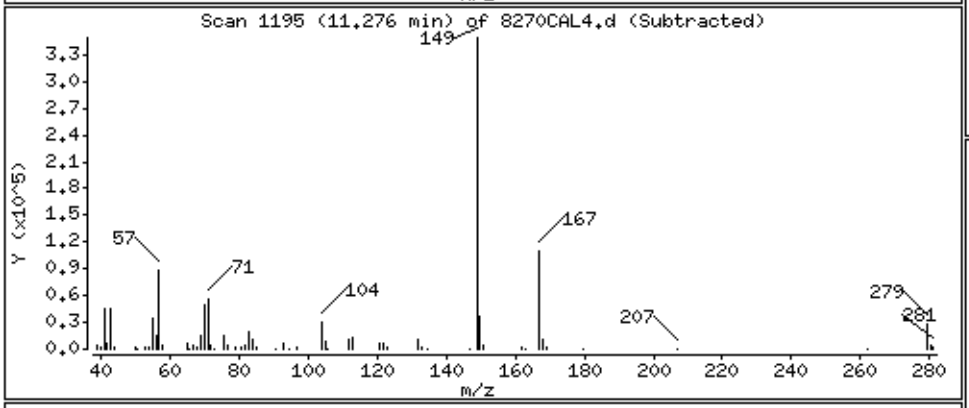
Sample Info: 47766

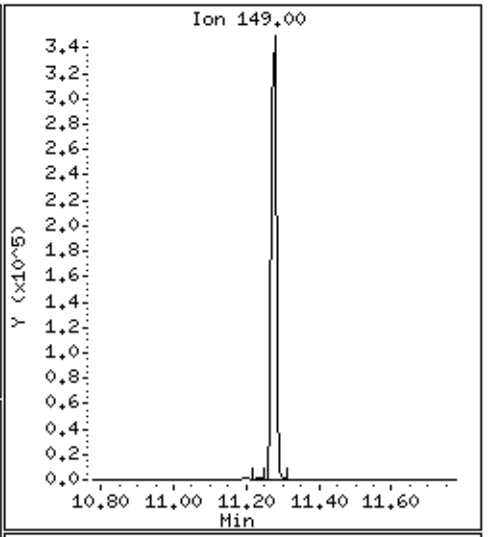
Operator: MJ

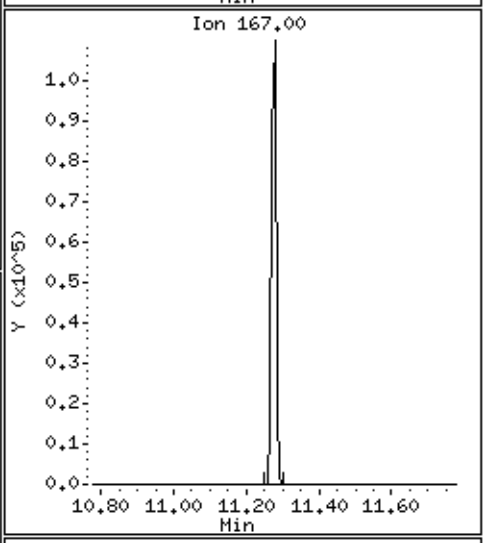
Column phase: HPMS-5 Column diameter: 0.25

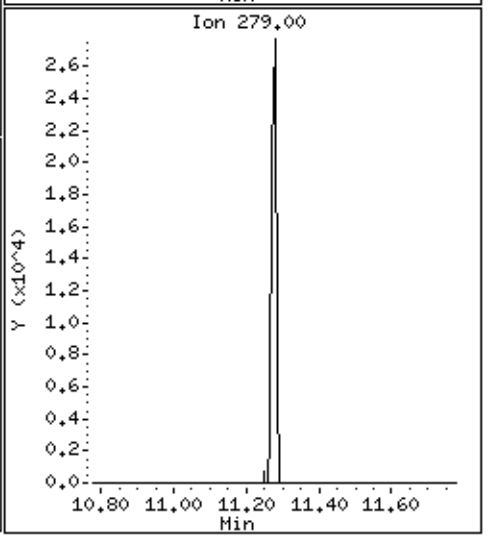
124 Bis-2-Ethylhexylphthalate Concentration: 43.3 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

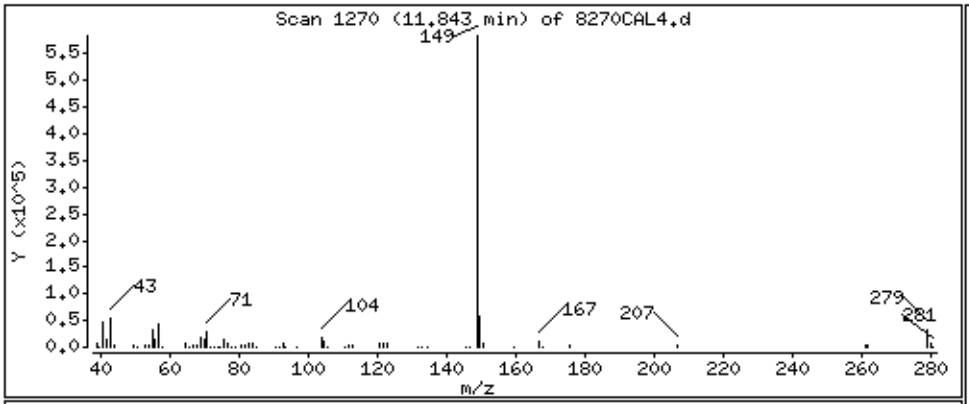
Operator: MJ

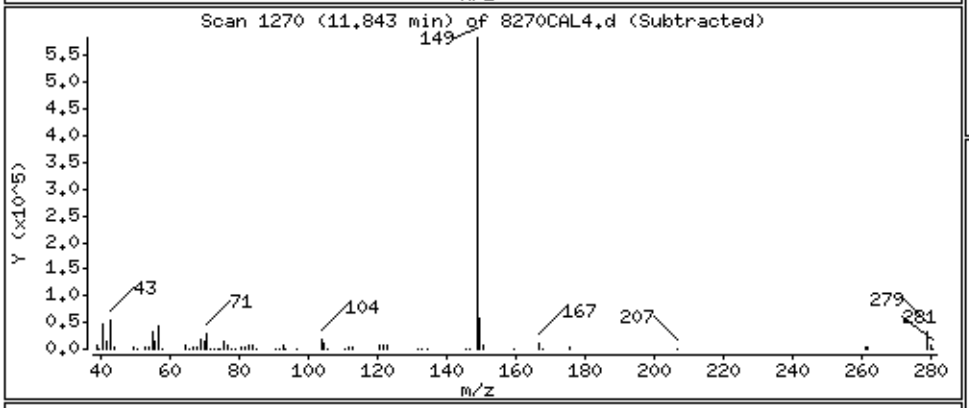
Column phase: HPMS-5

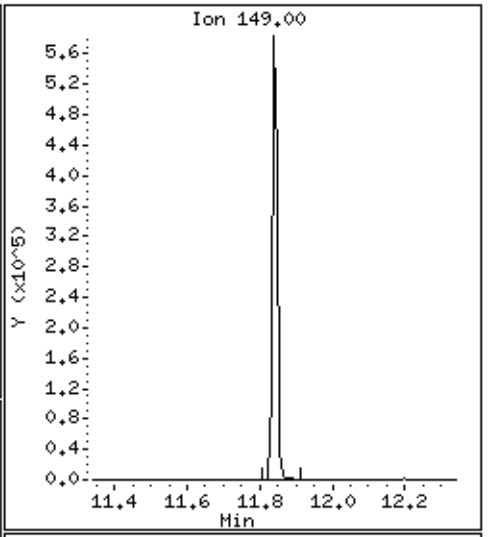
Column diameter: 0.25

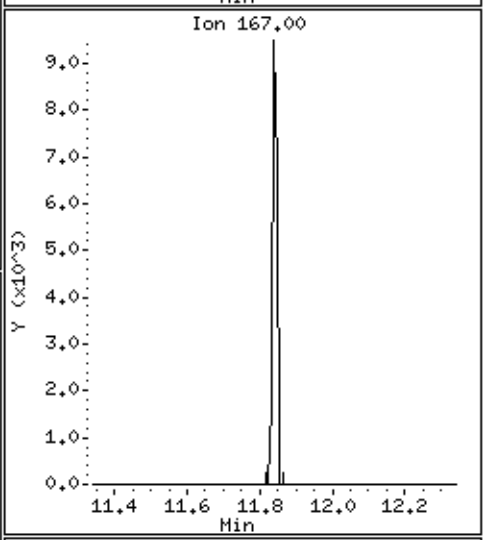
125 Di-n-octylphthalate

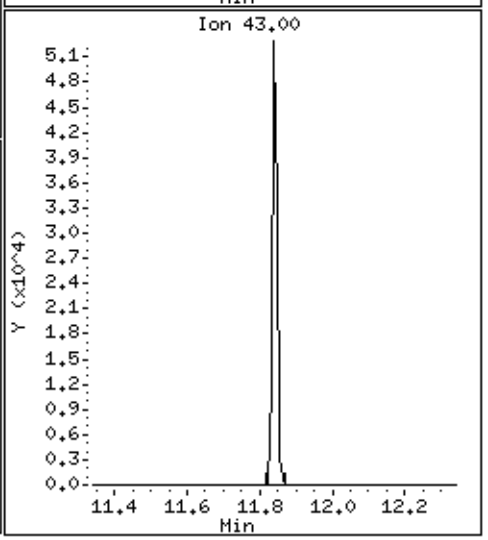
Concentration: 48.5 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

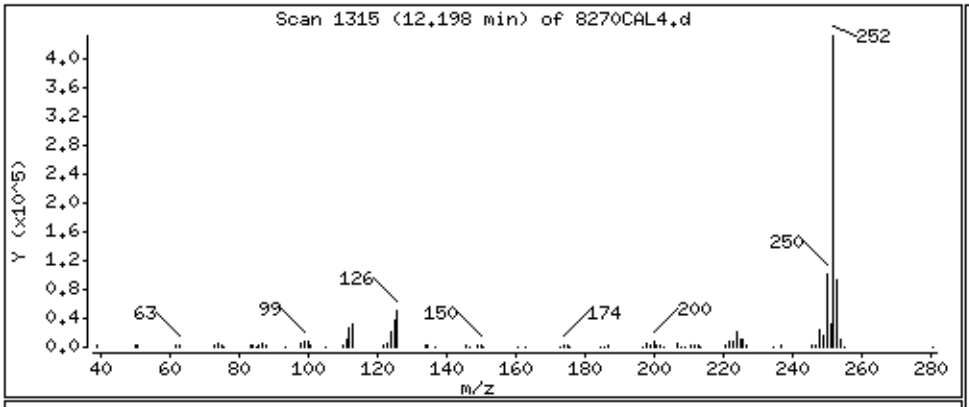
Operator: MJ

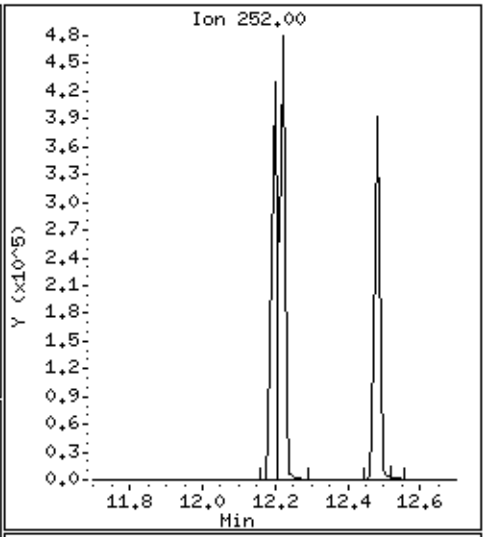
Column phase: HPMS-5

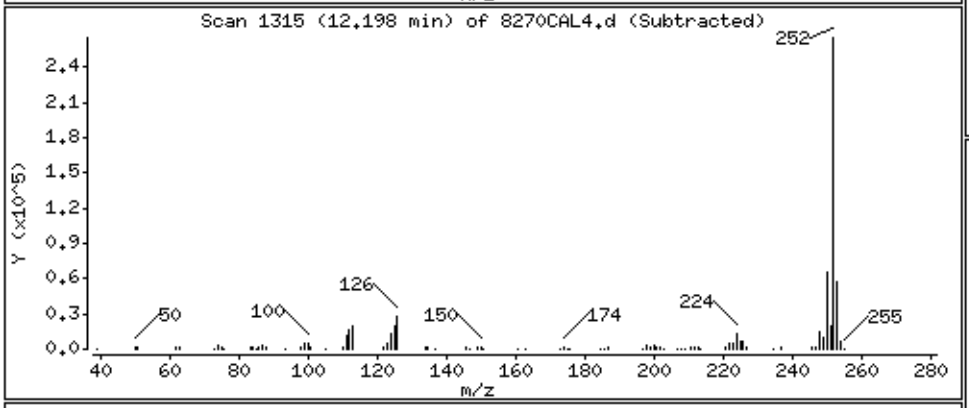
Column diameter: 0.25

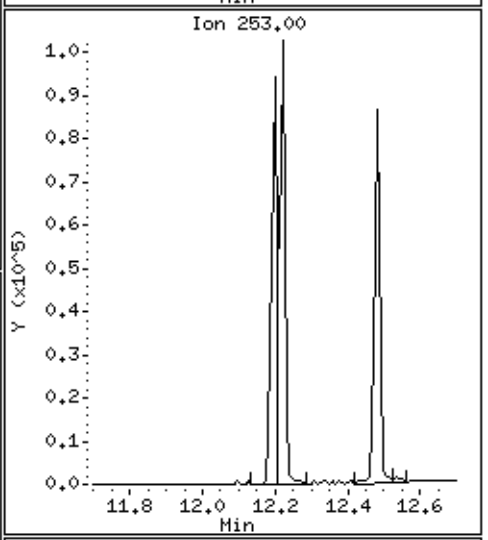
127 Benzo[b]fluoranthene

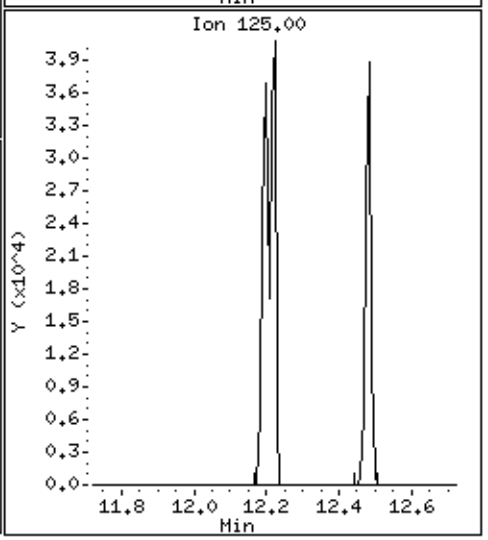
Concentration: 43.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

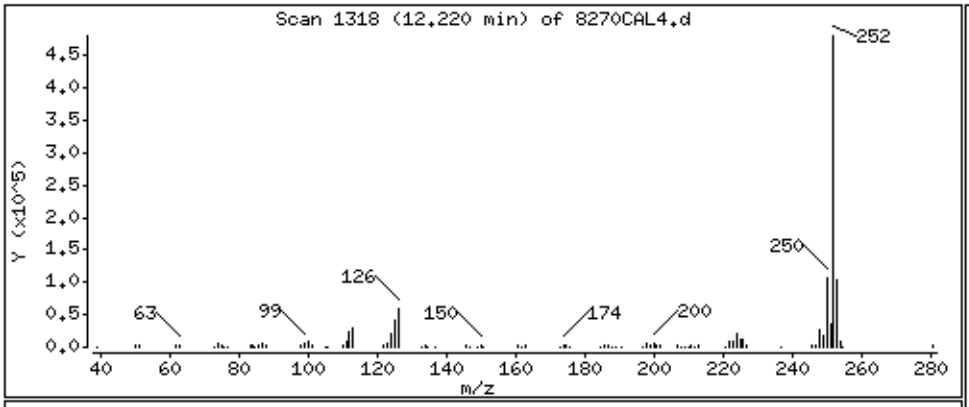
Operator: MJ

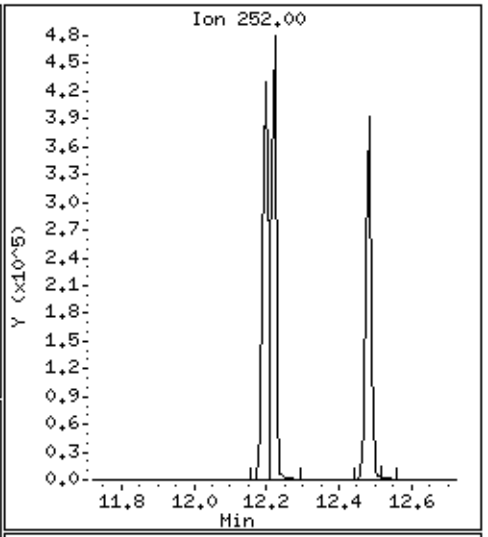
Column phase: HPMS-5

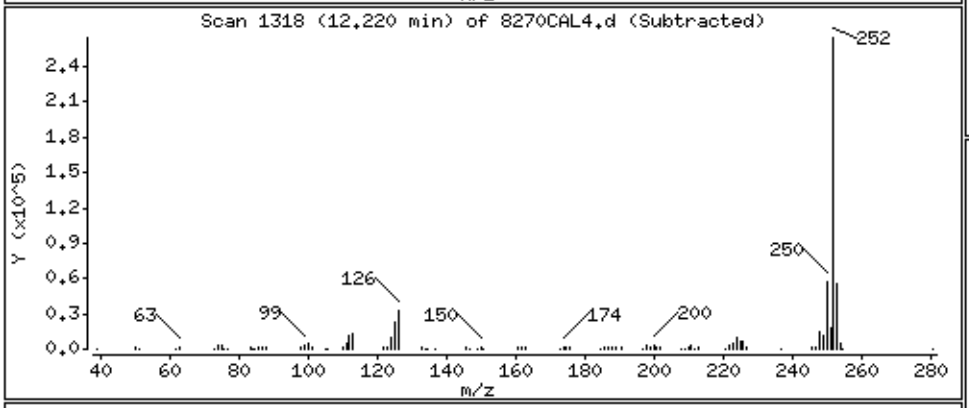
Column diameter: 0.25

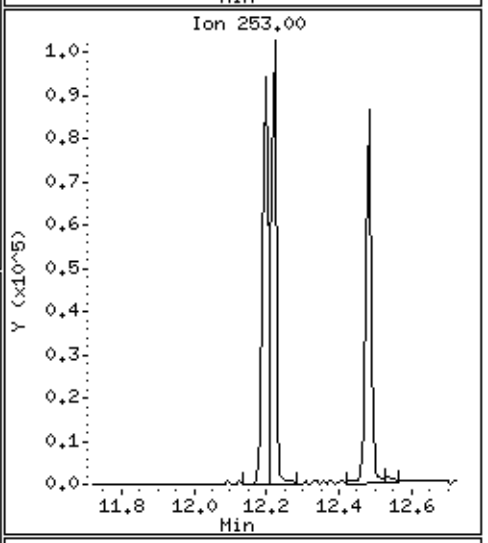
128 Benzo[k]fluoranthene

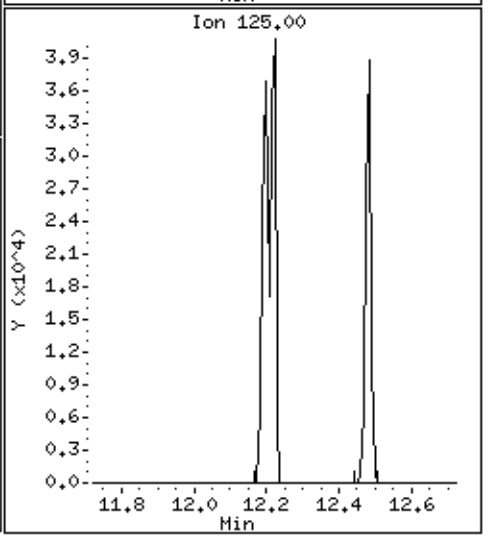
Concentration: 42.0 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

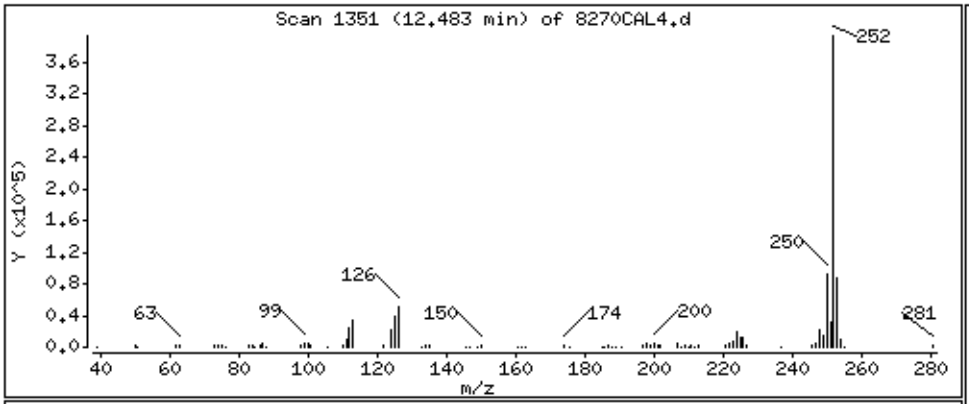
Operator: MJ

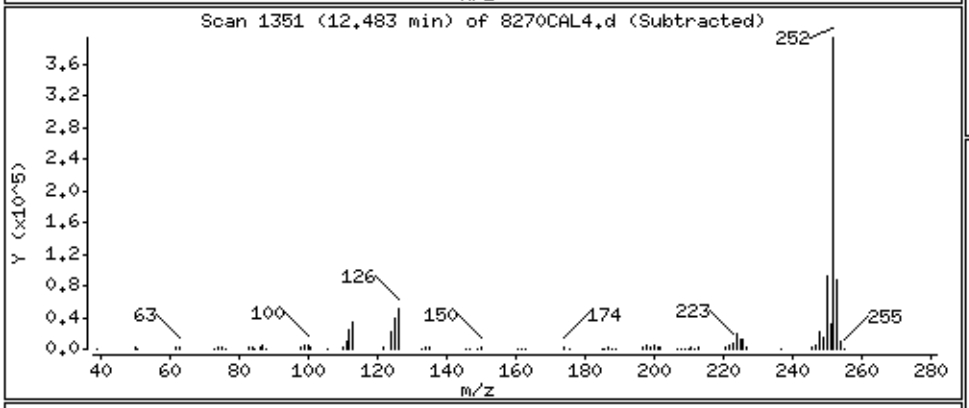
Column phase: HPMS-5

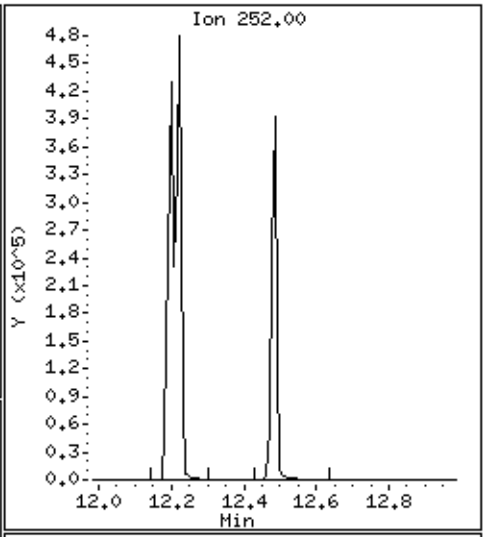
Column diameter: 0.25

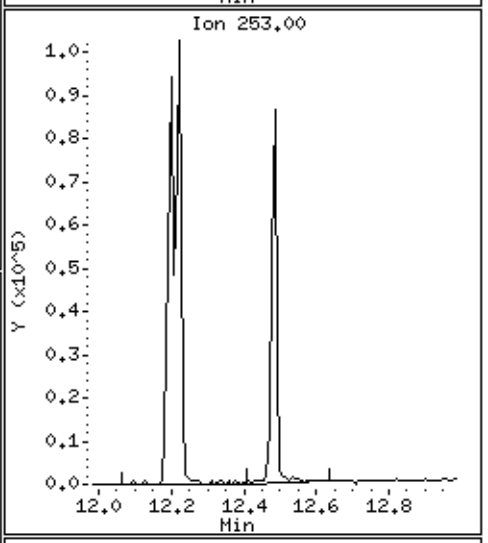
129 Benzo[a]pyrene

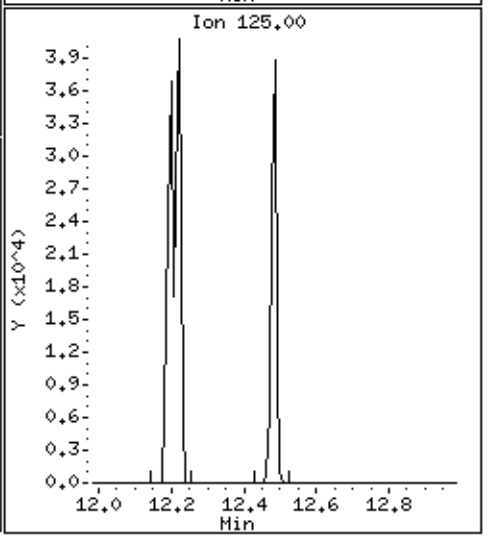
Concentration: 42.8 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

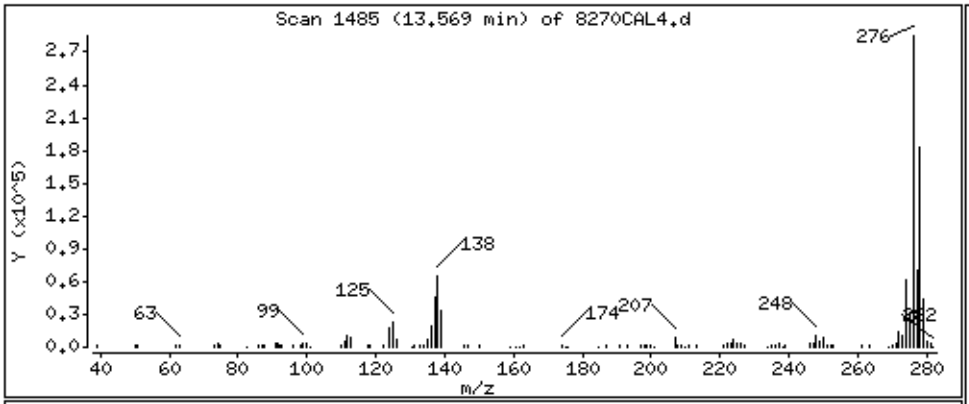
Operator: MJ

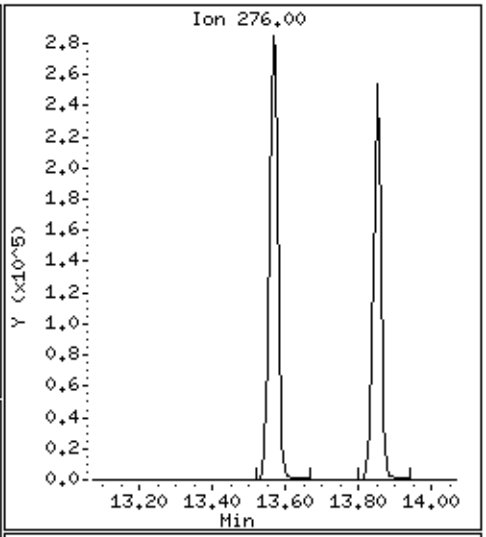
Column phase: HPMS-5

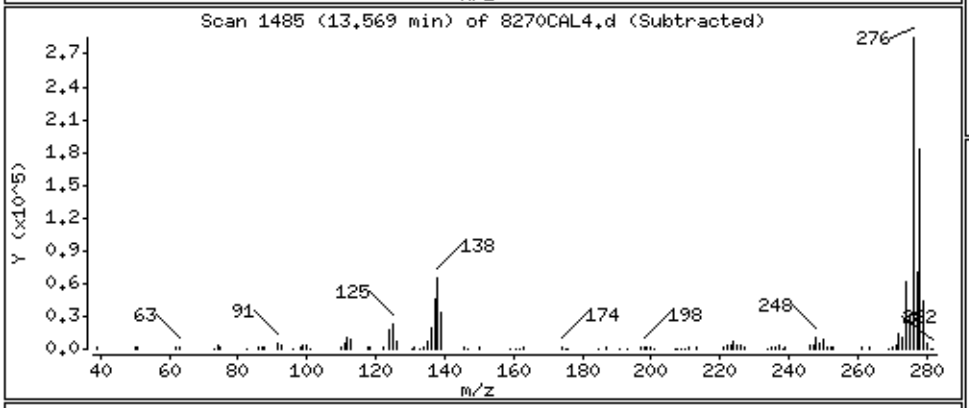
Column diameter: 0.25

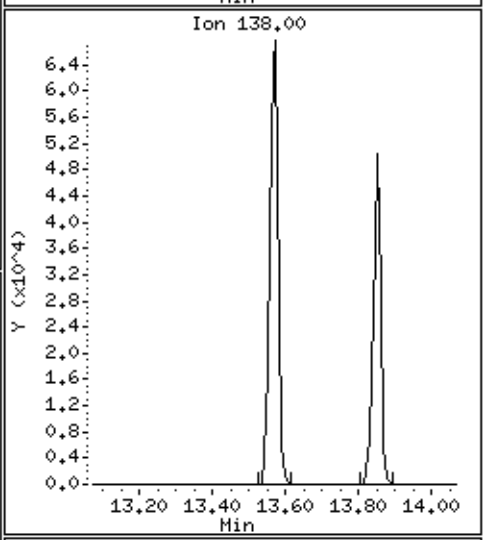
133 Indeno[1,2,3-cd]pyrene

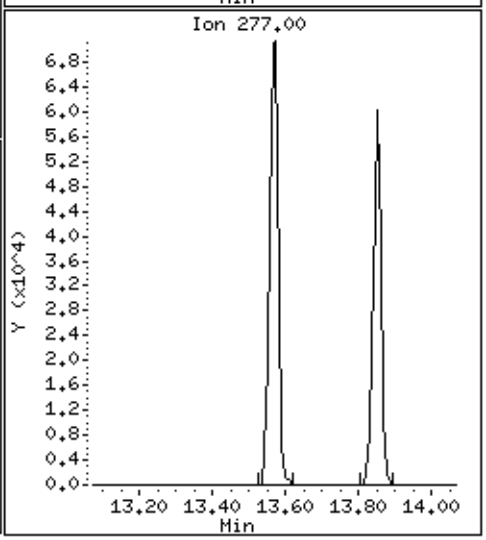
Concentration: 44.8 ug/kg











Date : 14-NOV-2012 23:43

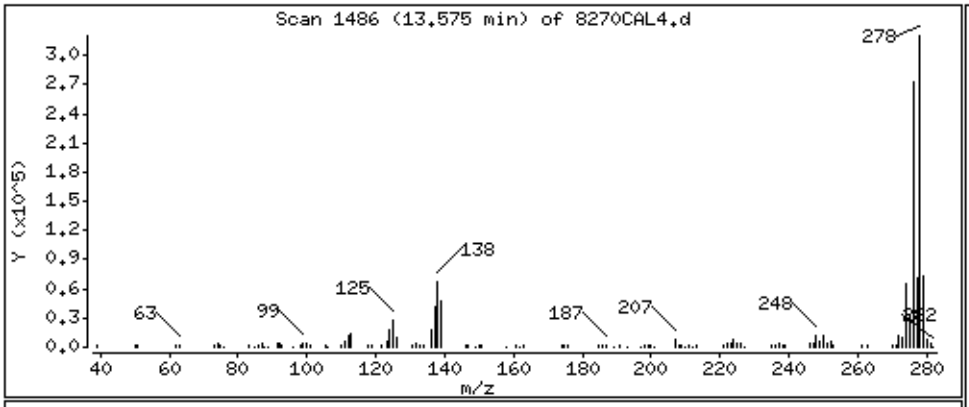
Client ID: 8270CAL4 Instrument: smsd04.i

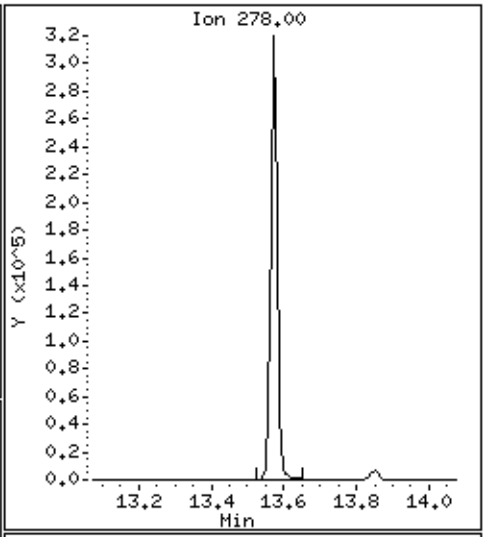
Sample Info: 47766

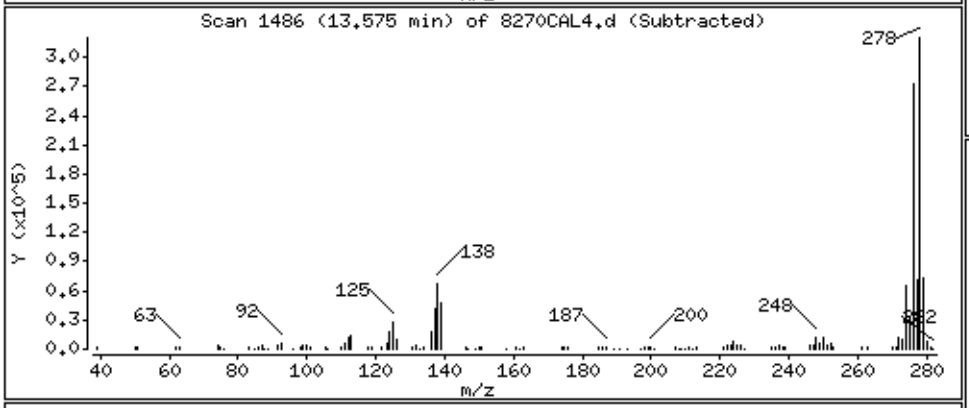
Operator: MJ

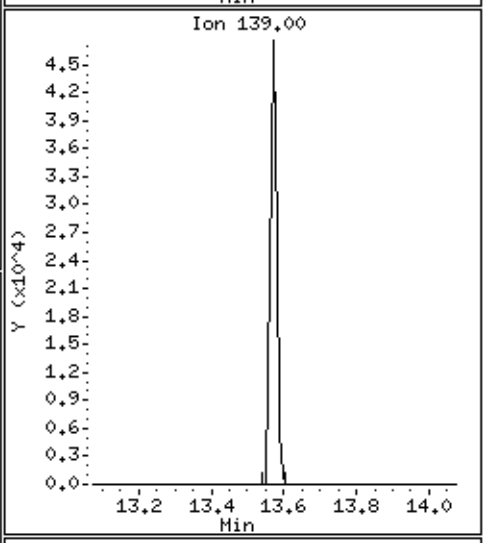
Column phase: HPMS-5 Column diameter: 0.25

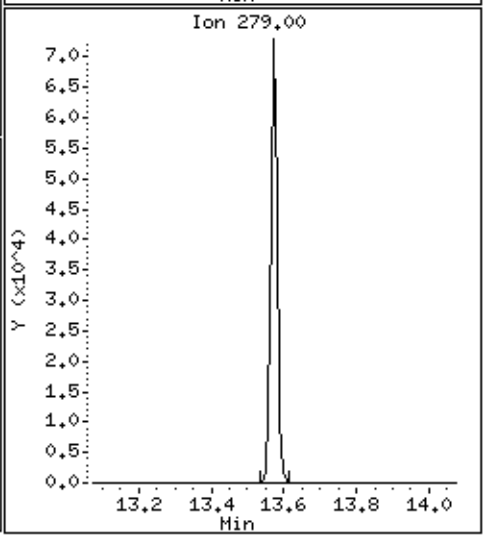
134 Dibenz[a,h]anthracene Concentration: 43.7 ug/kg











Data File: \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL4.d

Date : 14-NOV-2012 23:43

Client ID: 8270CAL4

Instrument: smsd04.i

Sample Info: 47766

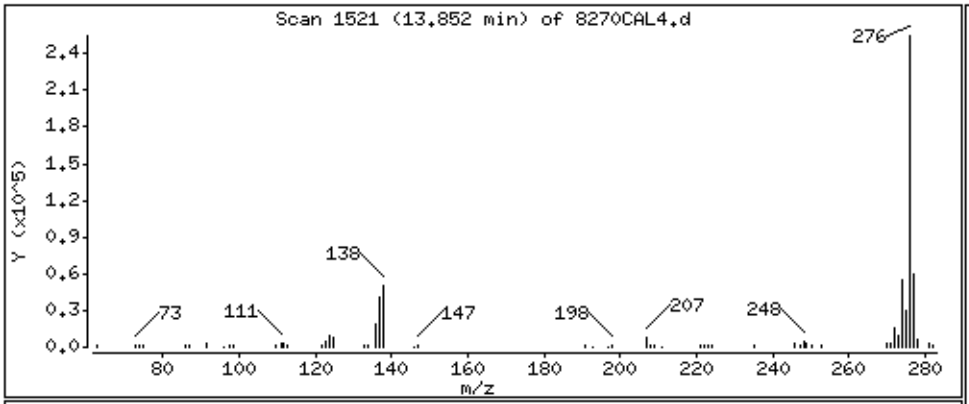
Operator: MJ

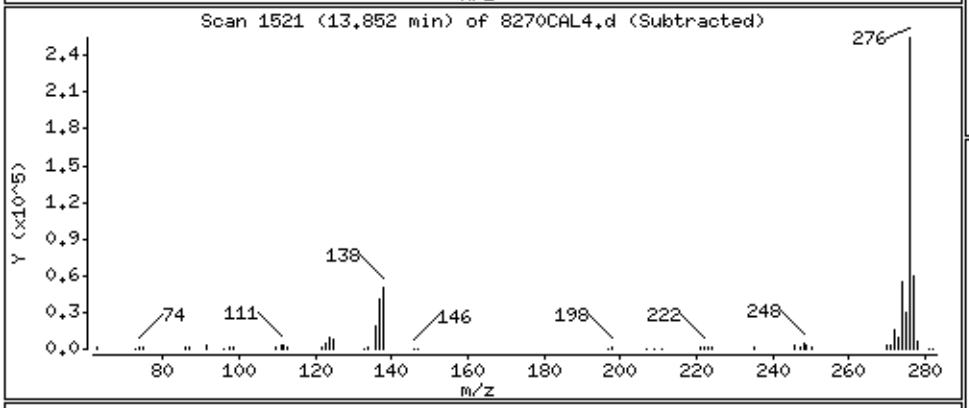
Column phase: HPMS-5

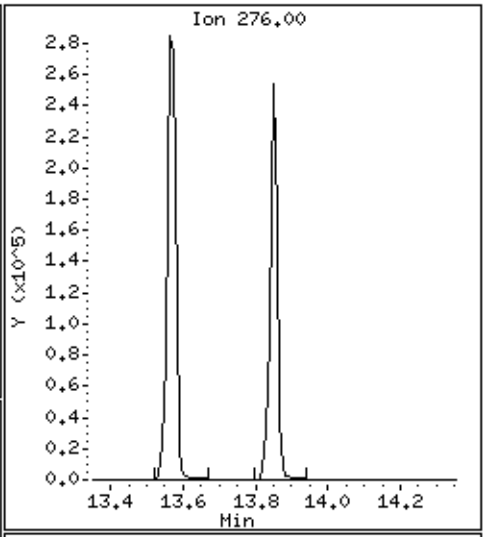
Column diameter: 0.25

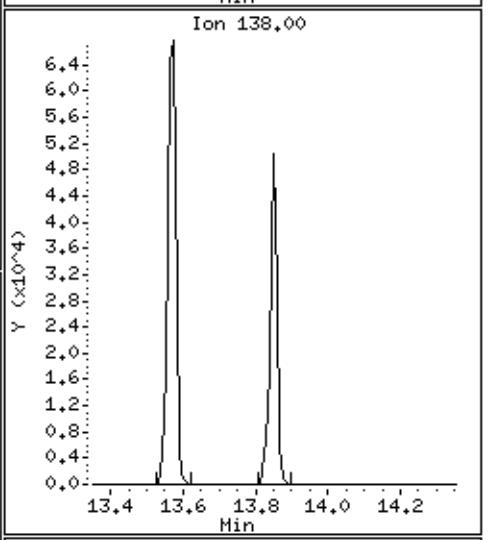
135 Benzo[g,h,i]perylene

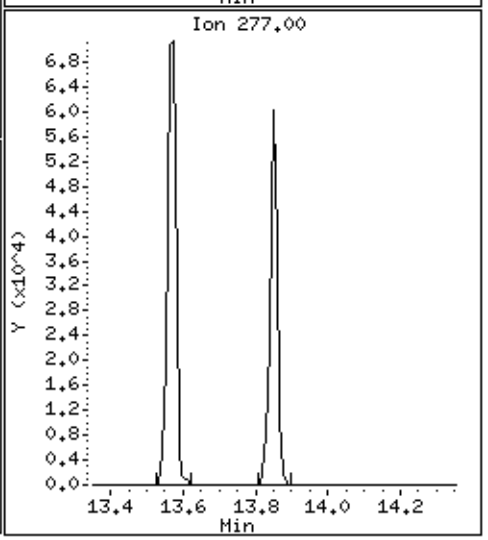
Concentration: 47.0 ug/kg











PEL Laboratories, Inc.

Data file : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270CAL3.d
Lab Smp Id: 47767 Client Smp ID: 8270CAL3
Inj Date : 15-NOV-2012 00:04 MS Autotune Date: 07-MAR-2012 16:32
Operator : MJ Inst ID: smsd04.i
Smp Info : 47767
Misc Info :
Comment :
Method : \\Svecd04\DD\chem\smsd04.i\S41114SScal.b\8270bcs.m
Meth Date : 26-Nov-2012 13:58 smsd04.i Quant Type: ISTD
Cal Date : 15-OCT-2012 14:41 Cal File: AP9CAL3.d
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 8270caln.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * (1/((Ws * (1-(M/100)))/1000))*Vf * CpndVari

Name	Value	Description
DF	1.000	Dilution Factor
Ws	15.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Vf	1.000	Final Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Pyridine						CAS #: 110-86-1		
2.230	2.228 (0.519)		79	61474	20.0000	18.9	80.00- 120.00	100.00
2.230	2.228 (0.519)		52	39683			35.30- 95.30	64.55
M 16 Cresols (Total)						CAS #: 1319-77-3		
				107667	40.0000			(a)
1 N-Nitrosodimethylamine						CAS #: 62-75-9		
2.220	2.220 (0.517)		42	27528	20.0000	19.1	80.00- 120.00	100.00
2.221	2.220 (0.517)		74	36196			97.07- 157.07	131.49
2.221	2.221 (0.517)		44	1670			0.00- 34.98	6.07
$ 6 2-Fluorophenol (SURR)						CAS #: 367-12-4		
3.245	3.246 (0.756)		112	108488	40.0000	37.4	80.00- 120.00	100.00
3.245	3.246 (0.756)		64	71830			32.62- 92.62	66.21
$ 11 Phenol-d5 (SURR)						CAS #: 4165-62-2		
4.001	4.006 (0.931)		99	135619	40.0000	36.8	80.00- 120.00	100.00
4.000	4.006 (0.931)		42	27643			0.00- 49.74	20.38
4.000	4.006 (0.931)		71	58510			12.66- 72.66	43.14

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
13 Phenol						CAS #: 108-95-2		
4.011	4.016	(0.934)	94	79943	20.0000	18.8	80.00- 120.00	100.00
4.011	4.016	(0.934)	65	25745			0.94- 60.94	32.20
4.010	4.015	(0.933)	66	42310			21.40- 81.40	52.93
10 Aniline						CAS #: 62-53-3		
4.044	4.046	(0.941)	93	80314	20.0000	20.0	80.00- 120.00	100.00
4.044	4.046	(0.941)	65	17157			0.00- 50.97	21.36
4.043	4.046	(0.941)	66	33382			12.95- 72.95	41.56
14 Bis(2-Chloroethyl)ether						CAS #: 111-44-4		
4.089	4.094	(0.952)	93	56055	20.0000	19.6	80.00- 120.00	100.00
4.089	4.093	(0.952)	63	41976			43.04- 103.04	74.88
4.090	4.094	(0.952)	95	18161			1.90- 61.90	32.40
15 2-Chlorophenol						CAS #: 95-57-8		
4.140	4.142	(0.964)	128	53507	20.0000	19.3	80.00- 120.00	100.00
4.140	4.142	(0.964)	64	29117			24.14- 84.14	54.42
4.140	4.142	(0.964)	130	17849			2.15- 62.15	33.36
17 1,3-Dichlorobenzene						CAS #: 541-73-1		
4.266	4.267	(0.993)	146	63310	20.0000	19.1	80.00- 120.00	100.00
4.266	4.267	(0.993)	148	41445			34.15- 94.15	65.46
4.266	4.267	(0.993)	111	30395			14.34- 74.34	48.01
* 18 1,4-Dichlorobenzene-d4						CAS #: 3855-82-1		
4.296	4.294	(1.000)	152	87947	40.0000		80.00- 120.00	100.00
4.295	4.294	(1.000)	115	56261			34.81- 94.81	63.97
4.296	4.294	(1.000)	150	150844			126.51- 186.51	171.52
19 1,4-Dichlorobenzene						CAS #: 106-46-7		
4.310	4.311	(1.003)	146	65940	20.0000	19.1	80.00- 120.00	100.00
4.310	4.311	(1.003)	148	42776			36.10- 96.10	64.87
4.310	4.311	(1.003)	111	29625			14.95- 74.95	44.93
21 Benzyl alcohol						CAS #: 100-51-6		
4.427	4.429	(1.031)	108	34782	20.0000	18.6	80.00- 120.00	100.00
4.427	4.429	(1.031)	79	54518			126.03- 186.03	156.74
4.427	4.429	(1.031)	77	37809			76.75- 136.75	108.70
20 1,2-Dichlorobenzene						CAS #: 95-50-1		
4.478	4.478	(1.042)	146	62448	20.0000	19.6	80.00- 120.00	100.00
4.478	4.478	(1.042)	148	39253			33.36- 93.36	62.86
4.478	4.478	(1.042)	111	28234			18.07- 78.07	45.21
22 2-Methylphenol						CAS #: 95-48-7		
4.536	4.538	(1.056)	107	43465	20.0000	19.2	80.00- 120.00	100.00
4.536	4.538	(1.056)	108	49746			83.56- 143.56	114.45
4.536	4.538	(1.056)	79	25913			27.79- 87.79	59.62
23 2,2'-oxybis(1-chloropropane)						CAS #: 108-60-1		
4.570	4.571	(1.064)	45	72596	20.0000	20.2	80.00- 120.00	100.00
4.569	4.571	(1.064)	77	12391			0.00- 47.34	17.07

					AMOUNTS			
RT	EXP RT	REL RT	MASS	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
	23 2,2'-oxybis(1-chloropropane) (continued)							
4.570	4.571	(1.064)	121	19665			0.00- 56.71	27.09
	28 4-Methylphenol					CAS #: 106-44-5		
4.664	4.668	(1.086)	107	64202	20.0000	18.8	80.00- 120.00	100.00
4.664	4.668	(1.086)	108	51655			51.88- 111.88	80.46
4.663	4.668	(1.086)	79	17563			0.00- 57.76	27.36
	26 N-Nitrosodinpropylamine					CAS #: 621-64-7		
4.693	4.699	(1.093)	70	46237	20.0000	19.0	80.00- 120.00	100.00
4.693	4.699	(1.093)	42	24736			21.53- 81.53	53.50
4.693	4.699	(1.093)	130	9774			0.00- 51.40	21.14
	30 Hexachloroethane					CAS #: 67-72-1		
4.753	4.753	(1.107)	117	28130	20.0000	19.3	80.00- 120.00	100.00
4.754	4.754	(1.107)	201	26105			63.39- 123.39	92.80
4.754	4.754	(1.107)	199	17178			26.40- 86.40	61.07
$	31 Nitrobenzene-d5 (SURR)					CAS #: 4165-60-0		
4.816	4.818	(0.881)	82	72532	20.0000	19.4	80.00- 120.00	100.00
4.816	4.818	(0.881)	128	25460			6.68- 66.68	35.10
4.816	4.818	(0.881)	54	34647			19.12- 79.12	47.77
	32 Nitrobenzene					CAS #: 98-95-3		
4.832	4.834	(0.884)	77	74206	20.0000	20.1	80.00- 120.00	100.00
4.833	4.835	(0.884)	123	26383			6.73- 66.73	35.55
4.832	4.834	(0.884)	65	10648			0.00- 43.84	14.35
	34 Isophorone					CAS #: 78-59-1		
5.041	5.046	(0.923)	82	121888	20.0000	19.1	80.00- 120.00	100.00
5.041	5.047	(0.923)	138	18600			0.00- 45.91	15.26
5.041	5.046	(0.923)	95	8791			0.00- 37.77	7.21
	35 2-Nitrophenol					CAS #: 88-75-5		
5.127	5.128	(0.938)	139	28905	20.0000	18.6	80.00- 120.00	100.00
5.127	5.127	(0.938)	65	19171			33.65- 93.65	66.32
5.126	5.127	(0.938)	109	12729			13.08- 73.08	44.04
	36 2,4-Dimethylphenol					CAS #: 105-67-9		
5.154	5.158	(0.943)	122	42197	20.0000	18.2	80.00- 120.00	100.00
5.154	5.158	(0.943)	107	55802			100.42- 160.42	132.24
5.154	5.158	(0.943)	121	24695			27.73- 87.73	58.52
	38 Bis(2-Chloroethoxy)methane					CAS #: 111-91-1		
5.248	5.252	(0.960)	93	71240	20.0000	19.4	80.00- 120.00	100.00
5.248	5.252	(0.960)	95	22592			2.66- 62.66	31.71
5.248	5.252	(0.961)	123	8753			0.00- 43.79	12.29
	40 Benzoic Acid					CAS #: 65-85-0		
5.235	5.267	(0.958)	122	25666	20.0000	21.7	80.00- 120.00	100.00
5.233	5.267	(0.958)	105	35651			114.27- 174.27	138.90
5.234	5.267	(0.958)	77	30864			94.81- 154.81	120.25