REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89220-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/08/2013 & 04/09/2013
Reviewer:	Karen Marie Trujillo	Date:	04/30/2013
Concurrence[2]:	Martha Meyers-Lee	Date:	05/06/2013

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.		✓		Samples were received by TestAmerica Savannah, GA on 4/11/13 at 2.2°C. The samples were repackaged and shipped to TestAmerica in Tampa, FL for a PAH analysis on 4/11/13. Due to a FedEx shipping error, the sample shipment was delayed and the temperature of the cooler did not meet storage requirements upon receipt on 4/15/13. All sample results are estimated (J, UJ) due to cooler temperature >6°C. Refer to **Attachment B** (Case Narrative).	J, UJ
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?	✓			The "Login Sample Receipt Checklist" states there was water in the cooler, indicating melted ice and the cooler temperature was not acceptable. Sample shipment delayed by FedEx. Case Narrative also states that FEDEX lost track of the cooler shipped from the TestAmerica Savannah laboratory to the Tampa laboratory.	
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 (≤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.	✓				

[1] All analytical work subcontracted to TestAmerica of Tampa, FL
[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
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.	✓				
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?		✓		PAHs were not detected during the analysis of rinsate blank 04113-RB-Bowls + Spoons (680-89275-1).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 04113-RB-Bowls + Spoons (680-89275-1) was collected during the week of 4/08/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89275-1.	
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 Job?	✓			• CV0583A-CSD (680-89220-2) is a field duplicate of CV0583A-CS (680-89220-1). • CV1160A-CSD (680-89220-19) is a field duplicate of CV1160A-CS (680-89220-18).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment C** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
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.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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.	✓			• Instrument ID: BSMD5973 • Initial Calibration: 04/04/2013 • ICV: 04/04/13 @ 16:27 • CCV: 04/18/13 @ 14:03	
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		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @-23.7 %D (Lab: ≤35.0, Project: ≤20), 76.5%R. A negative bias is indicated by the ICV percent difference and the analyte was detected in all samples; therefore, J-flag detected results.	J
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 >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (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)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 136509: 680-89220-9 (CV0637D-CS-SP), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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					
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	✓				
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 <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
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-	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 B** (Case Narrative)	
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 D**). 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

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89220-1	CV0583A-CS	Solid	04/08/13 13:40	04/11/13 10:45
680-89220-2	CV0583A-CSD	Solid	04/08/13 13:40	04/11/13 10:45
680-89220-3	CV0583B-CS	Solid	04/08/13 13:50	04/11/13 10:45
680-89220-4	CV0722A-CS	Solid	04/08/13 14:25	04/11/13 10:45
680-89220-5	CV0722B-CS	Solid	04/08/13 14:35	04/11/13 10:45
680-89220-6	CV0637A-CS-SP	Solid	04/08/13 15:30	04/11/13 10:45
680-89220-7	CV0637B-CS-SP	Solid	04/08/13 15:45	04/11/13 10:45
680-89220-8	CV0637C-CS-SP	Solid	04/08/13 15:36	04/11/13 10:45
680-89220-9	CV0637D-CS-SP	Solid	04/08/13 15:20	04/11/13 10:45
680-89220-10	FM0114A-CS-SP	Solid	04/08/13 13:25	04/11/13 10:45
680-89220-11	FM0114B-CS-SP	Solid	04/08/13 13:33	04/11/13 10:45
680-89220-12	FM0117A-CS-SP	Solid	04/08/13 14:08	04/11/13 10:45
680-89220-13	FM0117B-CS-SP	Solid	04/08/13 14:26	04/11/13 10:45
680-89220-14	FM0117C-CS-SP	Solid	04/08/13 14:16	04/11/13 10:45
680-89220-15	FM0117D-GS-SP	Solid	04/08/13 14:34	04/11/13 10:45
680-89220-16	CV1100A-CS	Solid	04/09/13 14:20	04/11/13 10:45
680-89220-17	CV1099A-CS	Solid	04/09/13 14:40	04/11/13 10:45
680-89220-18	CV1160A-CS	Solid	04/09/13 13:35	04/11/13 10:45
680-89220-19	CV1160A-CSD	Solid	04/09/13 13:35	04/11/13 10:45
680-89220-20	FM0062A-CS	Solid	04/09/13 10:20	04/11/13 10:45

ATTACHMENT B

CASE NARRATIVE

Job ID: 680-89220-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89220-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/11/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0583A-CS (680-89220-1), CV0583A-CSD (680-89220-2), CV0583B-CS (680-89220-3), CV0722A-CS (680-89220-4), CV0722B-CS (680-89220-5), CV0637A-CS-SP (680-89220-6), CV0637B-CS-SP (680-89220-7), CV0637C-CS-SP (680-89220-8), CV0637D-CS-SP (680-89220-9), FM0114A-CS-SP (680-89220-10), FM0114B-CS-SP (680-89220-11), FM0117A-CS-SP (680-89220-12), FM0117B-CS-SP (680-89220-13), FM0117C-CS-SP (680-89220-14), FM0117D-GS-SP (680-89220-15), CV1100A-CS (680-89220-16), CV1099A-CS (680-89220-17), CV1160A-CS (680-89220-18), CV1160A-CSD (680-89220-19) and FM0062A-CS (680-89220-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013 and 04/19/2013.

Samples CV1160A-CSD (680-89220-19)[4X] and FM0062A-CS (680-89220-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

ATTACHMENT C

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV0583A-CS 680-89220-1		RL	CV0583A-CSD 680-89220-2		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	7.5	J	58	11	J	59	µg/kg	292.5	NA	3.5	117	None, absolute difference ≤ 2x Avg RL
Anthracene	11	J	12	18		12	µg/kg	60	NA	7	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	56		12	80		12	µg/kg	60	NA	24	**24**	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	55		15	79		15	µg/kg	75	NA	24	30	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	120		18	170		18	µg/kg	90	**34**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	57		29	72		30	µg/kg	147.5	NA	15	59	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	28		12	43		12	µg/kg	60	NA	15	24	None, absolute difference ≤ 2x Avg RL
Chrysene	93		13	120		13	µg/kg	65	**25**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	19	J	29	26	J	30	µg/kg	147.5	NA	7	59	None, absolute difference ≤ 2x Avg RL
Fluoranthene	82		29	120		30	µg/kg	147.5	NA	38	59	None, absolute difference ≤ 2x Avg RL
Fluorene		U	29	6.6	J	30	µg/kg	147.5	NA	6.6	59	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	48		29	66		30	µg/kg	147.5	NA	18	59	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	26	J	58	43	J	59	µg/kg	292.5	NA	17	117	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	33	J	58	55	J	59	µg/kg	292.5	NA	22	117	None, absolute difference ≤ 2x Avg RL
Naphthalene	41	J	58	67		59	µg/kg	292.5	NA	26	117	None, absolute difference ≤ 2x Avg RL
Phenanthrene	73		12	91		12	µg/kg	60	22	NA	NA	None, RPD ≤ 50%
Pyrene	61		29	81		30	µg/kg	147.5	NA	20	59	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1160A-CS 680-89220-18		RL	CV1160A-CSD 680-89220-19		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		U	180	380	J	540	µg/kg	1800	NA	380	720	None, absolute difference ≤ 2x Avg RL
Acenaphthylene		U	71	38	J	210	µg/kg	702.5	NA	38	281	None, absolute difference ≤ 2x Avg RL
Anthracene	32	J	15	440		45	µg/kg	150	NA	**408**	**60**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)anthracene	160		14	1700		43	µg/kg	142.5	**166**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	160		18	1600		56	µg/kg	185	NA	**1440**	**74**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(b)fluoranthene	270		22	2900		66	µg/kg	220	**166**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	74		35	660		110	µg/kg	362.5	NA	**586**	**145**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	100		14	890		43	µg/kg	142.5	NA	**790**	**57**	**J/UJ-flag, absolute difference > 2x Avg RL**
Chrysene	180		16	1800		48	µg/kg	160	**164**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	30	J	35	270		110	µg/kg	362.5	NA	**240**	**145**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	280		35	3300		110	µg/kg	362.5	NA	**3020**	**145**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluorene	15	J	35	230		110	µg/kg	362.5	NA	**215**	**145**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	75		35	730		110	µg/kg	362.5	NA	**655**	**145**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	36	J	71	250		210	µg/kg	702.5	NA	214	281	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	38	J	71	310		210	µg/kg	702.5	NA	272	281	None, absolute difference ≤ 2x Avg RL
Naphthalene	37	J	71	360		210	µg/kg	702.5	NA	**323**	**281**	**J/UJ-flag, absolute difference > 2x Avg RL**
Phenanthrene	180		14	2400		43	µg/kg	142.5	**172**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	210		35	2300		110	µg/kg	362.5	NA	**2090**	**145**	**J/UJ-flag, absolute difference > 2x Avg RL**

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0583A-CS

Lab Sample ID: 680-89220-1

Date Collected: 04/08/13 13:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 68.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U J	150	29	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Acenaphthylene	7.5	J	58	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Anthracene	11	J	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[a]anthracene	56	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[a]pyrene	55	J	15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[b]fluoranthene	120	J	18	8.9	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[g,h,i]perylene	57	J	29	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[k]fluoranthene	28	J	12	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Chrysene	93	J	13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Dibenz(a,h)anthracene	19	J	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Fluoranthene	82	J	29	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Fluorene	29	U J	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Indeno[1,2,3-cd]pyrene	48	J	29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
1-Methylnaphthalene	26	J	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
2-Methylnaphthalene	33	J	58	10	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Naphthalene	41	J	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Phenanthrene	73	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Pyrene	61	J	29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/17/13 08:42*	*04/18/13 16:56*	*1*

Client Sample ID: CV0583A-CSD

Lab Sample ID: 680-89220-2

Date Collected: 04/08/13 13:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 68.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U J	150	30	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Acenaphthylene	11	J	59	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Anthracene	18	J	12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[a]anthracene	80	J	12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[a]pyrene	79	J	15	7.7	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[b]fluoranthene	170	J	18	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[g,h,i]perylene	72	J	30	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[k]fluoranthene	43	J	12	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Chrysene	120	J	13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Dibenz(a,h)anthracene	26	J	30	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Fluoranthene	120	J	30	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Fluorene	6.6	J	30	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Indeno[1,2,3-cd]pyrene	66	J	30	10	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
1-Methylnaphthalene	43	J	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
2-Methylnaphthalene	55	J	59	10	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Naphthalene	67	J	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Phenanthrene	91	J	12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Pyrene	81	J	30	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*33*		*30 - 130*	*04/17/13 08:42*	*04/18/13 17:19*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV0583B-CS

Date Collected: 04/08/13 13:50
Date Received: 04/11/13 10:45

Lab Sample ID: 680-89220-3
Matrix: Solid
Percent Solids: 72.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U J	140	28	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Acenaphthylene	17	J	55	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Anthracene	23	J	12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[a]anthracene	92	J	11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[a]pyrene	72	J	14	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[b]fluoranthene	130	J	17	8.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[g,h,i]perylene	54	J	28	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[k]fluoranthene	44	J	11	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Chrysene	110	J	12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Dibenz(a,h)anthracene	22	J	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Fluoranthene	130	J	28	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Fluorene	28	U J	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Indeno[1,2,3-cd]pyrene	51	J	28	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
1-Methylnaphthalene	28	J	55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
2-Methylnaphthalene	33	J	55	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Naphthalene	38	J	55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Phenanthrene	92	J	11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Pyrene	95	J	28	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	48		30 - 130	04/17/13 08:42	04/18/13 17:41	1

Client Sample ID: CV0722A-CS

Date Collected: 04/08/13 14:25
Date Received: 04/11/13 10:45

Lab Sample ID: 680-89220-4
Matrix: Solid
Percent Solids: 79.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U J	130	25	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Acenaphthylene	9.7	J	51	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Anthracene	22	J	11	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[a]anthracene	390	J	10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[a]pyrene	590	J	13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[b]fluoranthene	1300	J	16	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[g,h,i]perylene	540	J	25	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[k]fluoranthene	350	J	10	4.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Chrysene	570	J	11	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Dibenz(a,h)anthracene	220	J	25	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Fluoranthene	340	J	25	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Fluorene	8.7	J	25	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Indeno[1,2,3-cd]pyrene	490	J	25	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
1-Methylnaphthalene	47	J	51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
2-Methylnaphthalene	63	J	51	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Naphthalene	56	J	51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Phenanthrene	130	J	10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Pyrene	300	J	25	4.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		30 - 130	04/17/13 08:42	04/18/13 18:04	1

Client Sample ID: CV0722B-CS

Lab Sample ID: 680-89220-5

Date Collected: 04/08/13 14:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 70.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U J	140	28	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Acenaphthylene	56	U J	56	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Anthracene	8.9	J	12	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[a]anthracene	130	J	11	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[a]pyrene	200	J	15	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[b]fluoranthene	400	J	17	8.5	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[g,h,i]perylene	170	J	28	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[k]fluoranthene	110	J	11	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Chrysene	180	J	13	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Dibenz(a,h)anthracene	59	J	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Fluoranthene	120	J	28	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Fluorene	28	U J	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Indeno[1,2,3-cd]pyrene	150	J	28	9.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
1-Methylnaphthalene	14	J	56	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
2-Methylnaphthalene	17	J	56	9.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Naphthalene	20	J	56	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Phenanthrene	47	J	11	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Pyrene	100	J	28	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/17/13 08:42*	*04/18/13 18:26*	*1*

Client Sample ID: CV0637A-CS-SP

Lab Sample ID: 680-89220-6

Date Collected: 04/08/13 15:30
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 59.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U J	170	34	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Acenaphthylene	9.6	J	67	8.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Anthracene	14	J	14	7.1	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[a]anthracene	52	J	13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[a]pyrene	39	J	18	8.8	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[b]fluoranthene	77	J	21	10	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[g,h,i]perylene	35	J	34	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[k]fluoranthene	25	J	13	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Chrysene	67	J	15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Dibenz(a,h)anthracene	11	J	34	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Fluoranthene	78	J	34	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Fluorene	34	U J	34	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Indeno[1,2,3-cd]pyrene	27	J	34	12	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
1-Methylnaphthalene	18	J	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
2-Methylnaphthalene	20	J	67	12	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Naphthalene	17	J	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Phenanthrene	60	J	13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Pyrene	58	J	34	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/17/13 08:42*	*04/18/13 18:49*	*1*

Client Sample ID: CV0637B-CS-SP

Lab Sample ID: 680-89220-7

Date Collected: 04/08/13 15:45
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 70.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U J	140	29	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Acenaphthylene	16	J	58	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Anthracene	18	J	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[a]anthracene	44	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[a]pyrene	42	J	15	7.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[b]fluoranthene	88	J	18	8.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[g,h,i]perylene	43	J	29	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[k]fluoranthene	21	J	12	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Chrysene	63	J	13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Dibenz(a,h)anthracene	16	J	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Fluoranthene	71	J	29	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Fluorene	29	U J	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Indeno[1,2,3-cd]pyrene	33	J	29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
1-Methylnaphthalene	20	J	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
2-Methylnaphthalene	26	J	58	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Naphthalene	28	J	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Phenanthrene	55	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Pyrene	49	J	29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	58		30 - 130	04/17/13 08:42	04/18/13 19:11	1

Client Sample ID: CV0637C-CS-SP

Lab Sample ID: 680-89220-8

Date Collected: 04/08/13 15:36
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 64.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U J	160	31	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Acenaphthylene	15	J	62	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Anthracene	28	J	13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[a]anthracene	120	J	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[a]pyrene	92	J	16	8.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[b]fluoranthene	170	J	19	9.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[g,h,i]perylene	65	J	31	6.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[k]fluoranthene	51	J	12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Chrysene	170	J	14	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Dibenz(a,h)anthracene	24	J	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Fluoranthene	190	J	31	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Fluorene	11	J	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Indeno[1,2,3-cd]pyrene	49	J	31	11	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
1-Methylnaphthalene	150	J	62	6.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
2-Methylnaphthalene	130	J	62	11	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Naphthalene	92	J	62	6.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Phenanthrene	210	J	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Pyrene	150	J	31	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	57		30 - 130	04/17/13 08:42	04/18/13 19:34	1

Client Sample ID: CV0637D-CS-SP

Date Collected: 04/08/13 15:20
Date Received: 04/11/13 10:45

Lab Sample ID: 680-89220-9
Matrix: Solid
Percent Solids: 66.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U J	150	29	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Acenaphthylene	86	J	59	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Anthracene	91	J	12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[a]anthracene	150	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[a]pyrene	160	J	15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[b]fluoranthene	350	J	18	8.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[g,h,i]perylene	150	J	29	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[k]fluoranthene	120	J	12	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Chrysene	230	J	13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Dibenz(a,h)anthracene	52	J	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Fluoranthene	330	J	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Fluorene	20	J	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Indeno[1,2,3-cd]pyrene	120	J	29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
1-Methylnaphthalene	59	J	59	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
2-Methylnaphthalene	73	J	59	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Naphthalene	84	J	59	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Phenanthrene	230	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Pyrene	220	J	29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/17/13 08:42*	*04/18/13 19:56*	*1*

Client Sample ID: FM0114A-CS-SP

Date Collected: 04/08/13 13:25
Date Received: 04/11/13 10:45

Lab Sample ID: 680-89220-10
Matrix: Solid
Percent Solids: 78.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U J	130	26	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Acenaphthylene	8.3	J	51	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Anthracene	11	J	11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[a]anthracene	54	J	10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[a]pyrene	41	J	13	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[b]fluoranthene	86	J	16	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[g,h,i]perylene	27	J	26	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[k]fluoranthene	24	J	10	4.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Chrysene	68	J	12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Dibenz(a,h)anthracene	9.6	J	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Fluoranthene	85	J	26	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Fluorene	26	U J	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Indeno[1,2,3-cd]pyrene	24	J	26	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
1-Methylnaphthalene	20	J	51	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
2-Methylnaphthalene	30	J	51	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Naphthalene	31	J	51	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Phenanthrene	51	J	10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Pyrene	67	J	26	4.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/17/13 08:42*	*04/18/13 21:04*	*1*

Client Sample ID: FM0114B-CS-SP

Lab Sample ID: 680-89220-11

Date Collected: 04/08/13 13:33
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 64.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U J	160	31	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Acenaphthylene	13	J	62	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Anthracene	22	J	13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[a]anthracene	64	J	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[a]pyrene	67	J	16	8.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[b]fluoranthene	130	J	19	9.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[g,h,i]perylene	34	J	31	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[k]fluoranthene	46	J	12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Chrysene	87	J	14	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Dibenz(a,h)anthracene	13	J	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Fluoranthene	100	J	31	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Fluorene	31	U J	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Indeno[1,2,3-cd]pyrene	35	J	31	11	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
1-Methylnaphthalene	19	J	62	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
2-Methylnaphthalene	26	J	62	11	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Naphthalene	26	J	62	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Phenanthrene	64	J	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Pyrene	85	J	31	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 08:42*	*04/18/13 21:26*	*1*

Client Sample ID: FM0117A-CS-SP

Lab Sample ID: 680-89220-12

Date Collected: 04/08/13 14:08
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 66.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U J	150	29	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Acenaphthylene	26	J	59	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Anthracene	29	J	12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[a]anthracene	93	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[a]pyrene	98	J	15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[b]fluoranthene	210	J	18	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[g,h,i]perylene	65	J	29	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[k]fluoranthene	54	J	12	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Chrysene	130	J	13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Dibenz(a,h)anthracene	21	J	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Fluoranthene	160	J	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Fluorene	29	U J	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Indeno[1,2,3-cd]pyrene	57	J	29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
1-Methylnaphthalene	21	J	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
2-Methylnaphthalene	32	J	59	10	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Naphthalene	35	J	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Phenanthrene	71	J	12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Pyrene	120	J	29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*04/17/13 08:42*	*04/18/13 21:49*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: FM0117B-CS-SP

Lab Sample ID: 680-89220-13

Date Collected: 04/08/13 14:26
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 67.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Acenaphthylene	11		58	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Anthracene	15		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[a]anthracene	32		12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[a]pyrene	42		15	7.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[b]fluoranthene	90		18	8.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[g,h,i]perylene	23		29	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[k]fluoranthene	31		12	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Chrysene	60		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Dibenz(a,h)anthracene	8.9		29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Fluoranthene	46		29	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Fluorene	29	U	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Indeno[1,2,3-cd]pyrene	22		29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
1-Methylnaphthalene	17		58	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
2-Methylnaphthalene	25		58	10	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Naphthalene	27		58	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Phenanthrene	34		12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Pyrene	40		29	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 08:42*	*04/18/13 22:11*	*1*

Client Sample ID: FM0117C-CS-SP

Lab Sample ID: 680-89220-14

Date Collected: 04/08/13 14:16
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 72.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Acenaphthylene	55	U	55	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Anthracene	7.1		12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[a]anthracene	38		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[a]pyrene	38		14	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[b]fluoranthene	69		17	8.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[g,h,i]perylene	20		28	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[k]fluoranthene	23		11	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Chrysene	47		12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Dibenz(a,h)anthracene	6.6		28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Fluoranthene	53		28	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Fluorene	28	U	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Indeno[1,2,3-cd]pyrene	19		28	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
1-Methylnaphthalene	10		55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
2-Methylnaphthalene	16		55	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Naphthalene	17		55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Phenanthrene	26		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Pyrene	40		28	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/17/13 08:42*	*04/18/13 22:34*	*1*

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)

Client Sample ID: FM0117D-GS-SP

Lab Sample ID: 680-89220-15

Date Collected: 04/08/13 14:34
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 59.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Acenaphthylene	9.2	J	67	8.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Anthracene	15	J	14	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[a]anthracene	58	J	13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[a]pyrene	52	J	17	8.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[b]fluoranthene	110	J	20	10	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[g,h,i]perylene	29	J	33	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[k]fluoranthene	34	J	13	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Chrysene	79	J	15	7.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Dibenz(a,h)anthracene	12	J	33	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Fluoranthene	110	J	33	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Fluorene	33	U	33	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Indeno[1,2,3-cd]pyrene	29	J	33	12	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
1-Methylnaphthalene	19	J	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
2-Methylnaphthalene	36	J	67	12	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Naphthalene	40	J	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Phenanthrene	58	J	13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Pyrene	81	J	33	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*36*		*30 - 130*	*04/17/13 08:42*	*04/18/13 22:57*	*1*

Client Sample ID: CV1100A-CS

Lab Sample ID: 680-89220-16

Date Collected: 04/09/13 14:20
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 77.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Acenaphthylene	19	J	51	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Anthracene	29	J	11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[a]anthracene	110	J	10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[a]pyrene	94	J	13	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[b]fluoranthene	190	J	16	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[g,h,i]perylene	59	J	26	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[k]fluoranthene	50	J	10	4.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Chrysene	180	J	12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Dibenz(a,h)anthracene	22	J	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Fluoranthene	160	J	26	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Fluorene	7.8	J	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Indeno[1,2,3-cd]pyrene	46	J	26	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
1-Methylnaphthalene	240	J	51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
2-Methylnaphthalene	260	J	51	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Naphthalene	160	J	51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Phenanthrene	220	J	10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Pyrene	140	J	26	4.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/17/13 08:42*	*04/18/13 23:19*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV1099A-CS

Lab Sample ID: 680-89220-17
Date Collected: 04/09/13 14:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 61.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Acenaphthylene	9.2	J	66	8.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Anthracene	14	J	14	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[a]anthracene	51	J	13	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[a]pyrene	47	J	17	8.5	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[b]fluoranthene	92	J	20	10	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[g,h,i]perylene	25	J	33	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[k]fluoranthene	27	J	13	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Chrysene	82	J	15	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Dibenz(a,h)anthracene	13	J	33	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Fluoranthene	76	J	33	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Indeno[1,2,3-cd]pyrene	21	J	33	12	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
1-Methylnaphthalene	77	J	66	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
2-Methylnaphthalene	91	J	66	12	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Naphthalene	61	J	66	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Phenanthrene	80	J	13	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Pyrene	65	J	33	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*04/17/13 08:42*	*04/18/13 23:42*	*1*

Client Sample ID: CV1160A-CS

Lab Sample ID: 680-89220-18
Date Collected: 04/09/13 13:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 57.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Acenaphthylene	71	U	71	8.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Anthracene	32	J	15	7.4	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[a]anthracene	160	J	14	6.9	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[a]pyrene	160	J	18	9.2	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[b]fluoranthene	270	J	22	11	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[g,h,i]perylene	74	J	35	7.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[k]fluoranthene	100	J	14	6.4	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Chrysene	180	J	16	7.9	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Dibenz(a,h)anthracene	30	J	35	7.2	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Fluoranthene	280	J	35	7.1	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Fluorene	15	J	35	7.2	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Indeno[1,2,3-cd]pyrene	75	J	35	13	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
1-Methylnaphthalene	36	J	71	7.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
2-Methylnaphthalene	38	J	71	13	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Naphthalene	37	J	71	7.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Phenanthrene	180	J	14	6.9	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Pyrene	210	J	35	6.5	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/17/13 08:42*	*04/19/13 00:04*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV1160A-CSD

Lab Sample ID: 680-89220-19

Date Collected: 04/09/13 13:35
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 74.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	380	J	540	110	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Acenaphthylene	38	J	210	27	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Anthracene	440	J	45	23	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[a]anthracene	1700	J	43	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[a]pyrene	1600	J	56	28	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[b]fluoranthene	2900	J	66	33	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[g,h,i]perylene	660	J	110	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[k]fluoranthene	890	J	43	19	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Chrysene	1800	J	48	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Dibenz(a,h)anthracene	270	J	110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Fluoranthene	3300	J	110	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Fluorene	230	J	110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Indeno[1,2,3-cd]pyrene	730	J	110	38	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
1-Methylnaphthalene	250	J	210	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
2-Methylnaphthalene	310	J	210	38	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Naphthalene	360	J	210	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Phenanthrene	2400	J	43	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Pyrene	2300	J	110	20	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/17/13 08:42*	*04/19/13 00:27*	*4*

Client Sample ID: FM0062A-CS

Lab Sample ID: 680-89220-20

Date Collected: 04/09/13 10:20
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 74.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U J	540	110	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Acenaphthylene	240	J	220	27	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Anthracene	360	J	46	23	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[a]anthracene	1500	J	44	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[a]pyrene	1600	J	57	28	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[b]fluoranthene	2900	J	66	33	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[g,h,i]perylene	750	J	110	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[k]fluoranthene	1000	J	44	20	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Chrysene	1600	J	49	25	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Dibenz(a,h)anthracene	300	J	110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Fluoranthene	2700	J	110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Fluorene	78	J	110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Indeno[1,2,3-cd]pyrene	760	J	110	39	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
1-Methylnaphthalene	72	J	220	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
2-Methylnaphthalene	130	J	220	39	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Naphthalene	420	J	220	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Phenanthrene	890	J	44	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Pyrene	2000	J	110	20	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/17/13 08:42*	*04/19/13 00:49*	*4*

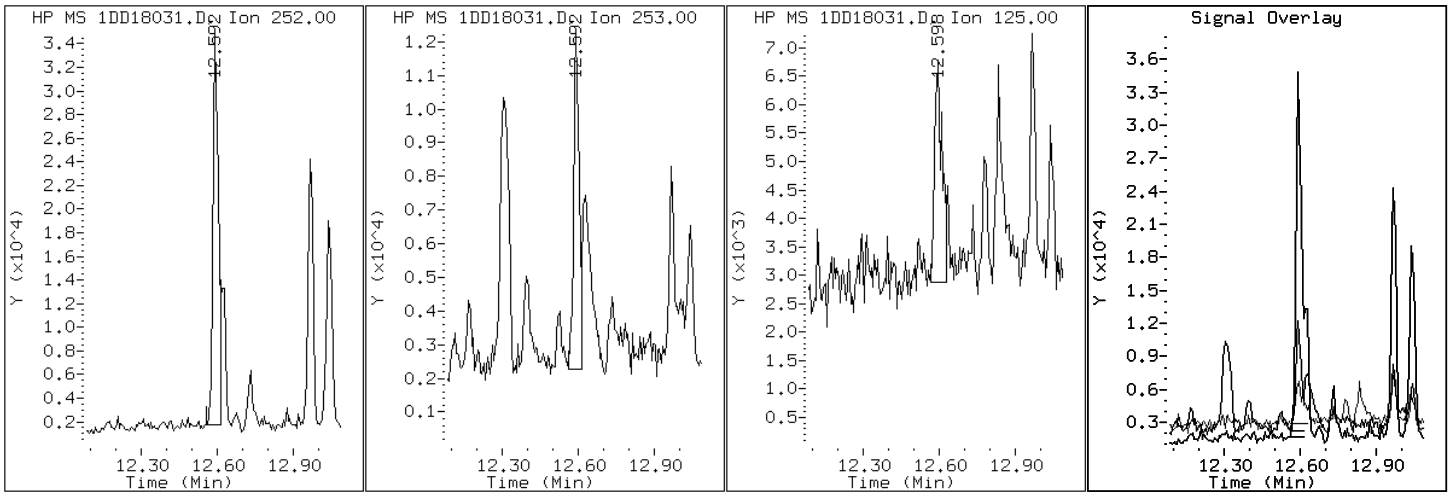
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

19 Benzo(b)fluoranthene



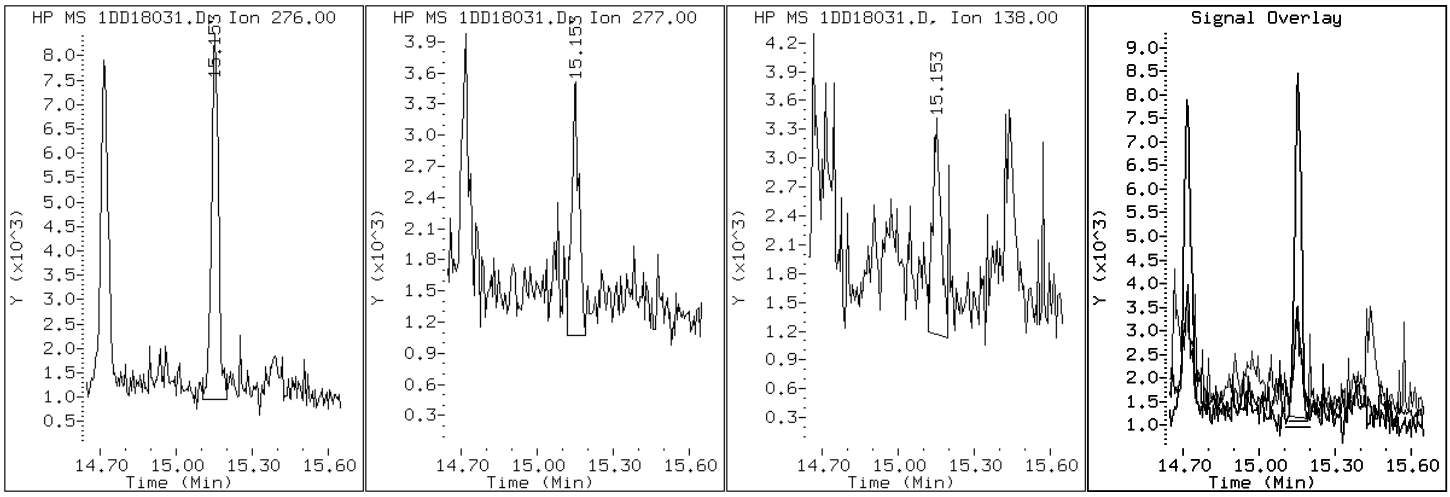
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

25 Benzo(g,h,i)perylene



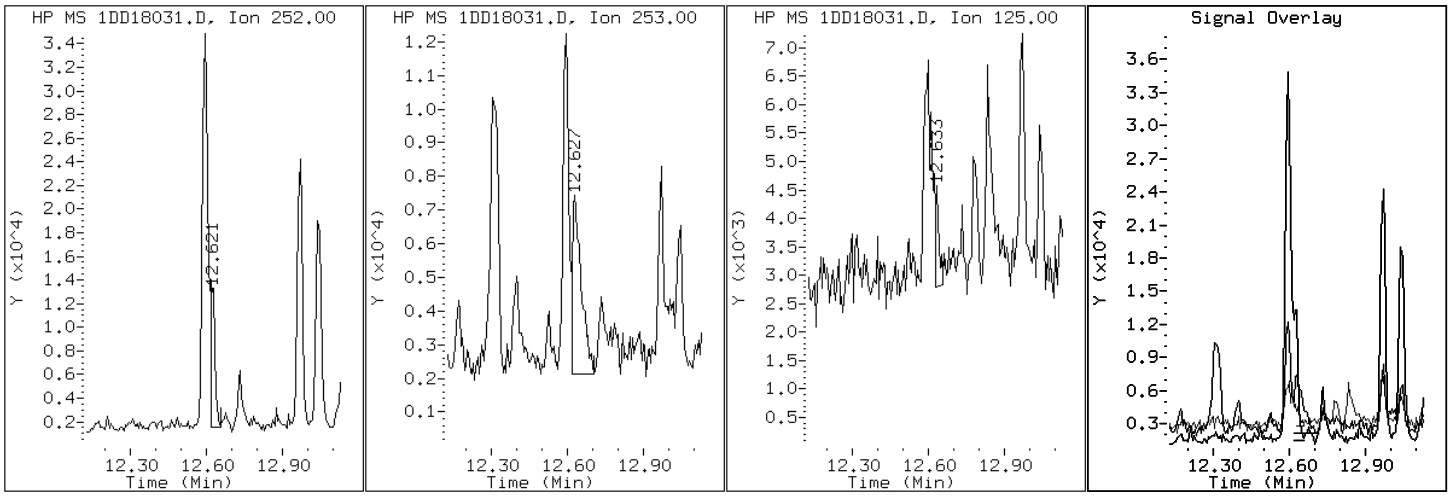
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

20 Benzo(k)fluoranthene



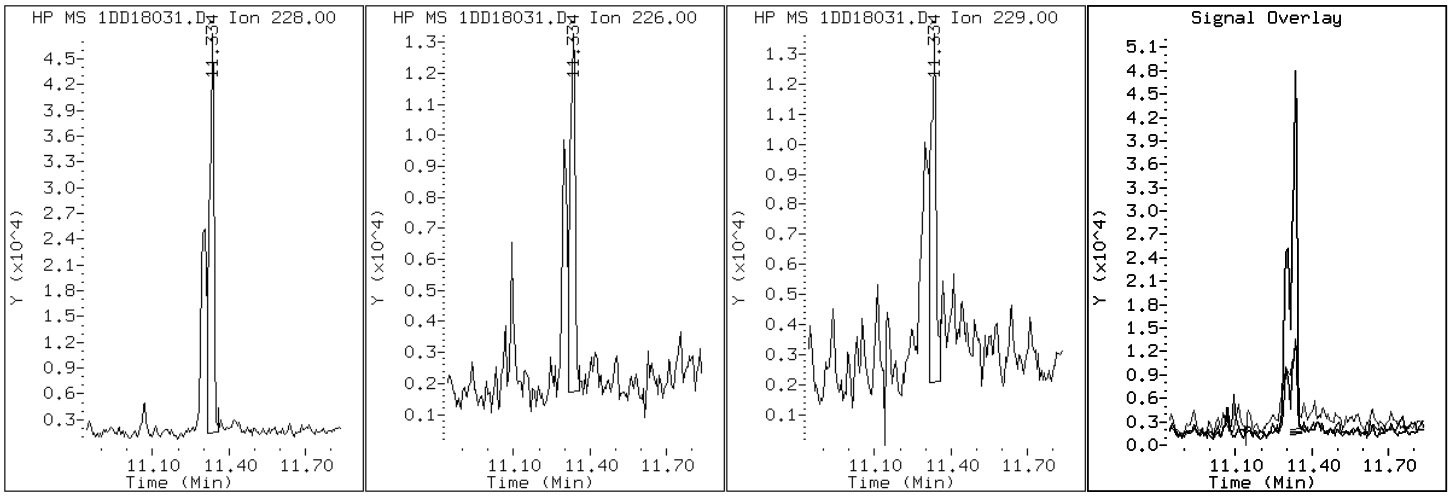
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

18 Chrysene



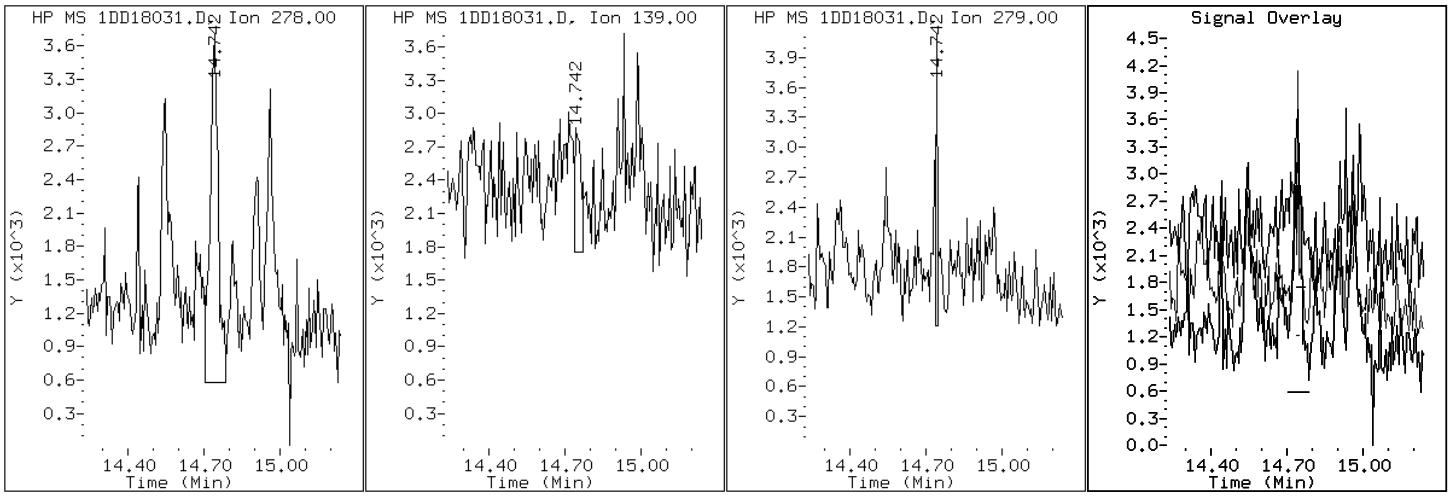
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

24 Dibenzo(a,h)anthracene



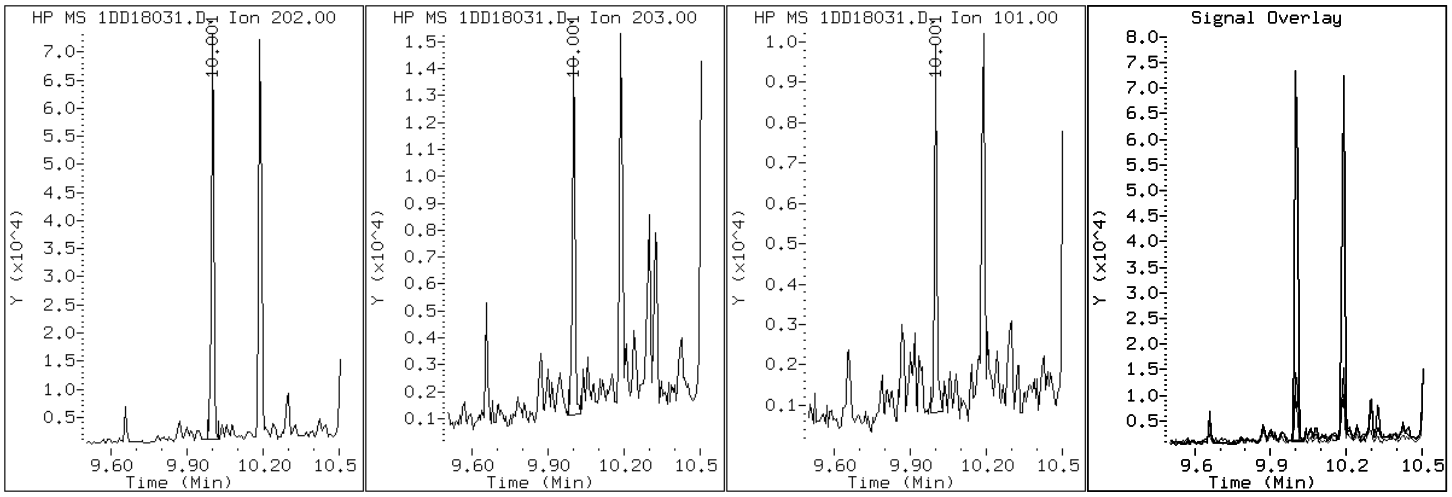
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

14 Fluoranthene



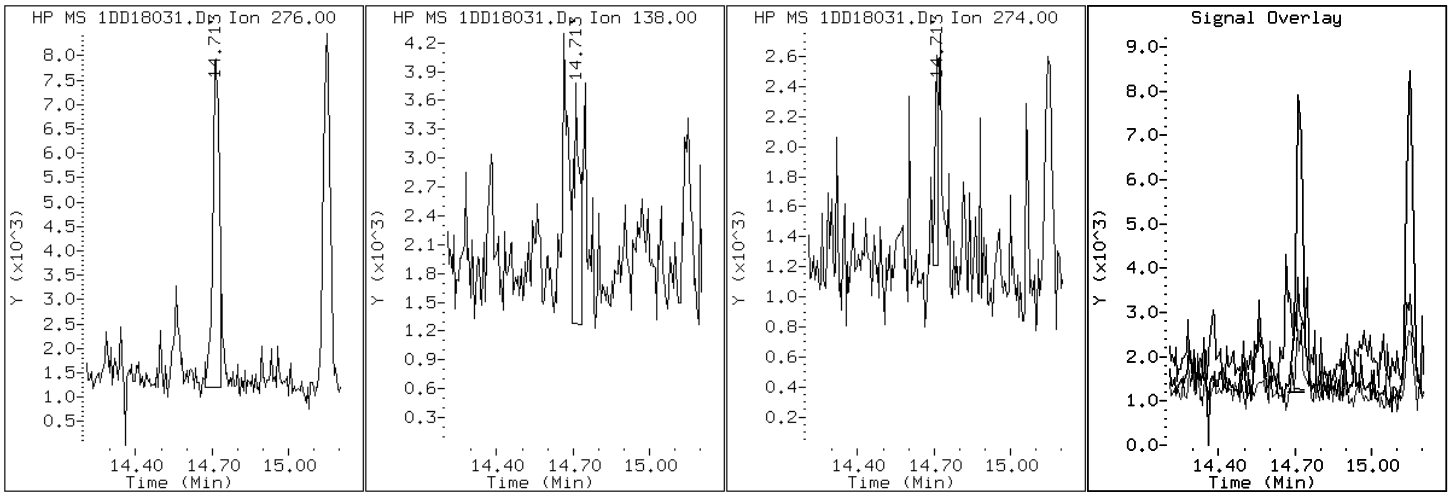
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

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



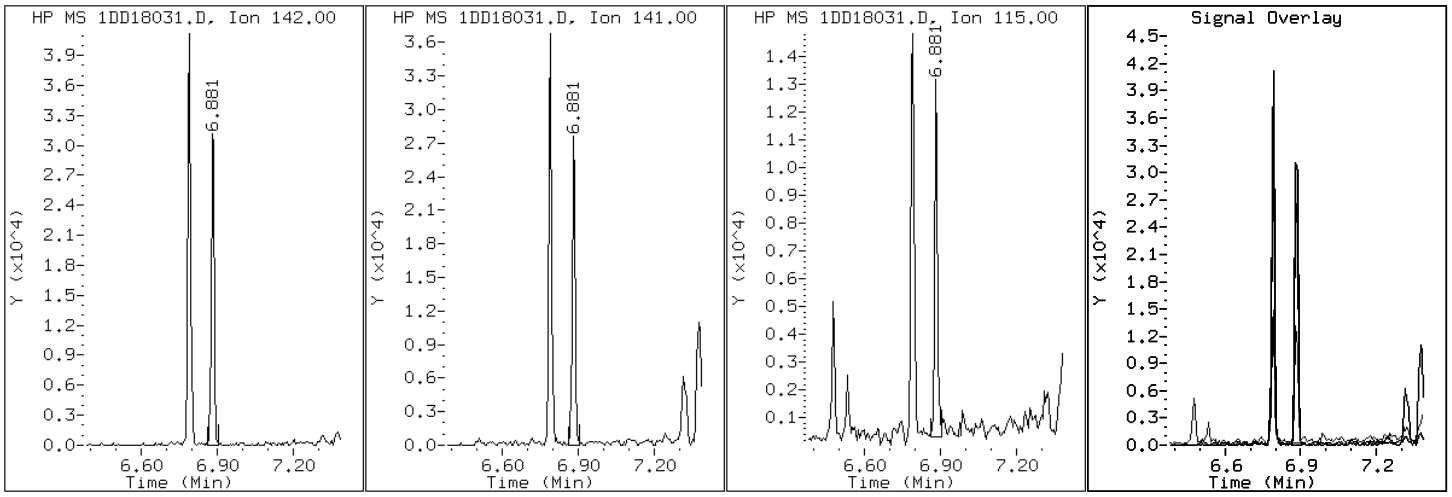
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

4 1-Methylnaphthalene



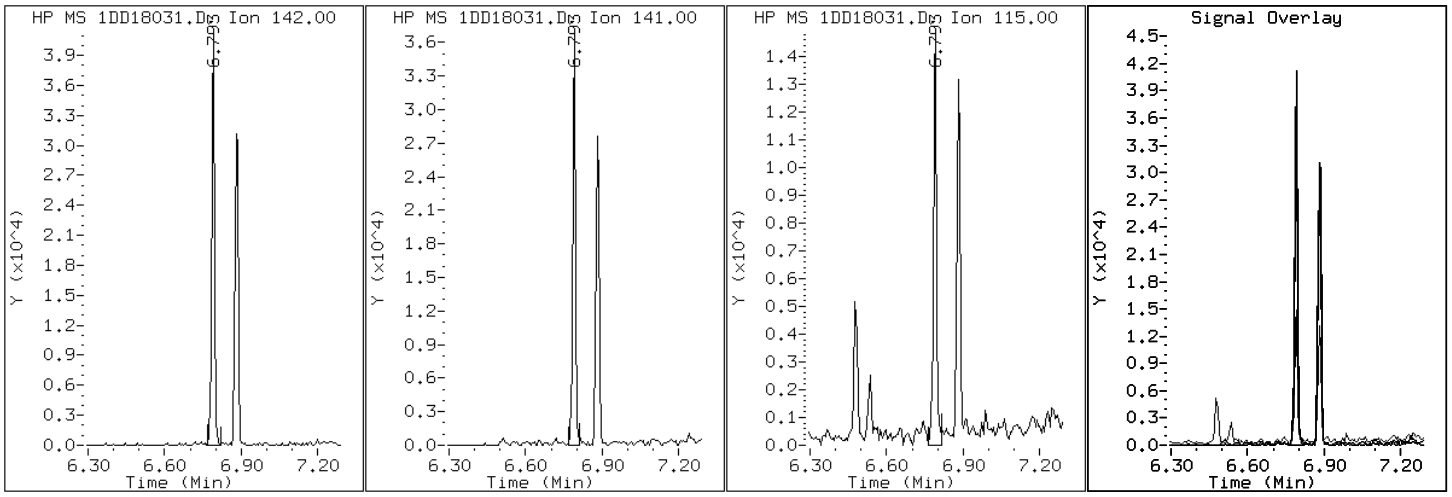
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

3 2-Methylnaphthalene



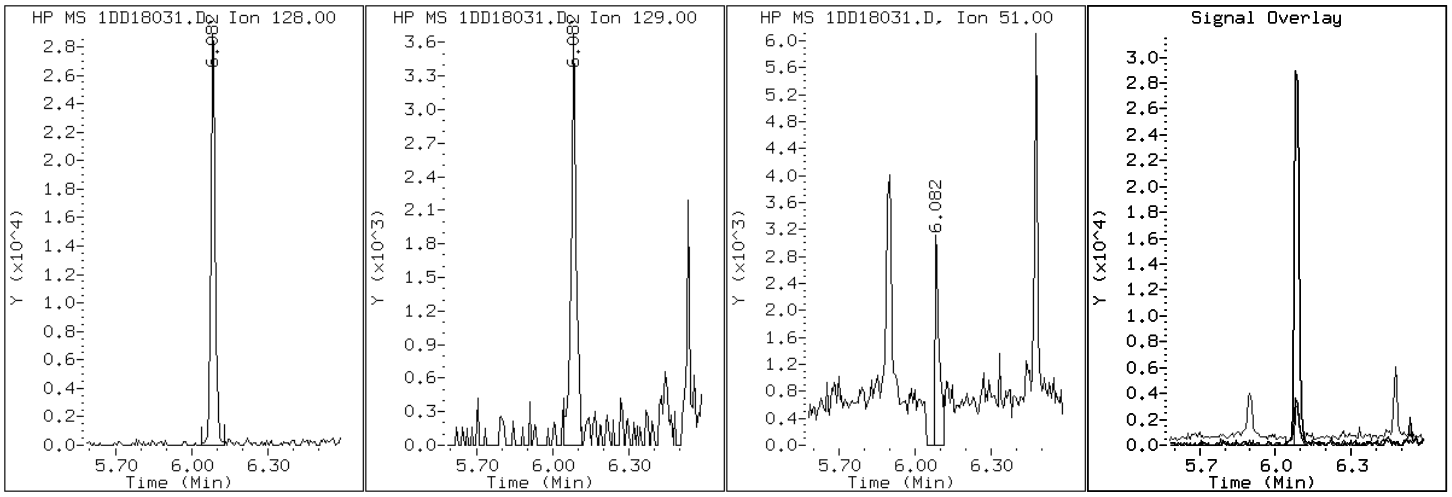
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

2 Naphthalene



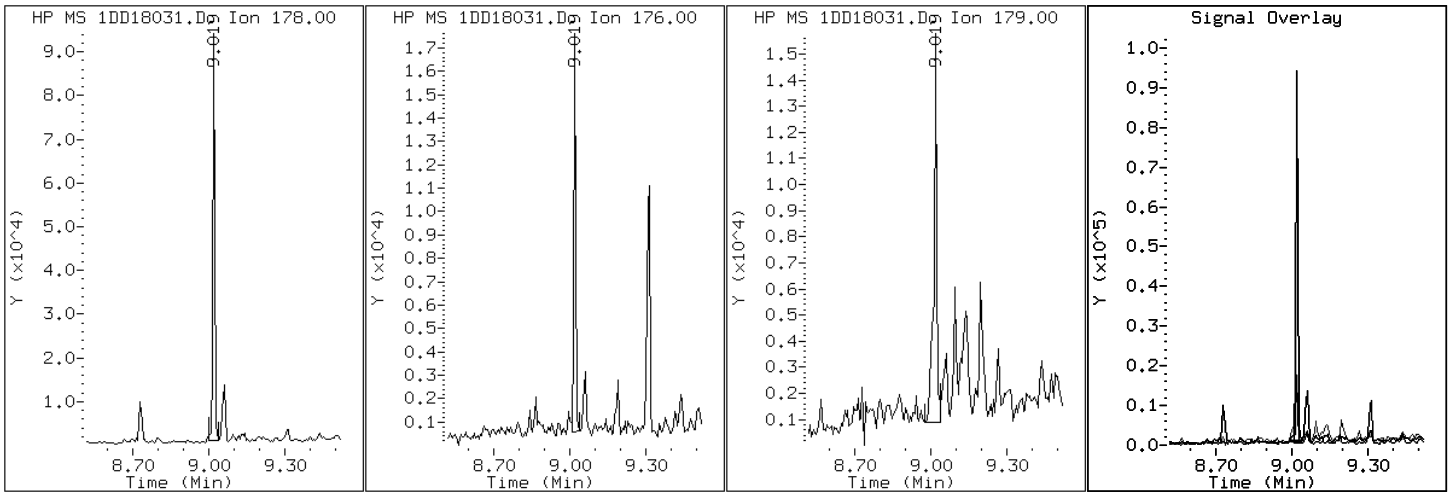
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

10 Phenanthrene



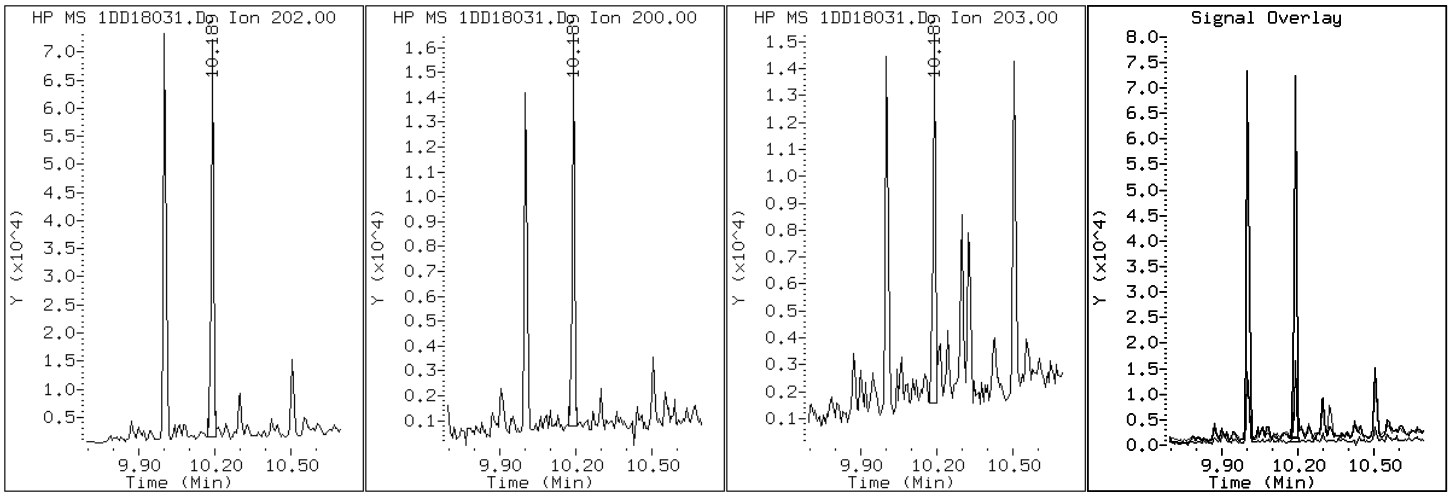
Data File: 1DD18031.D

Date: 18-APR-2013 23:42

Client ID: CV1099A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-17-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD18031.D
Inj. Date and Time: 18-APR-2013 23:42
Instrument ID: BSMSD.i
Client ID: CV1099A-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/19/2013

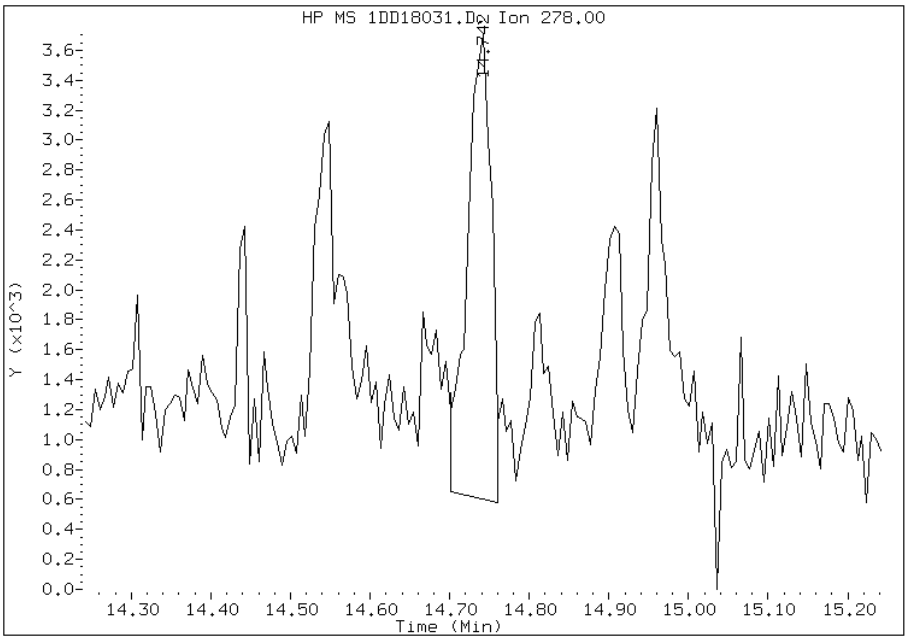
Processing Integration Results

RT: 14.74

Response: 6552

Amount: 0

Conc: 11



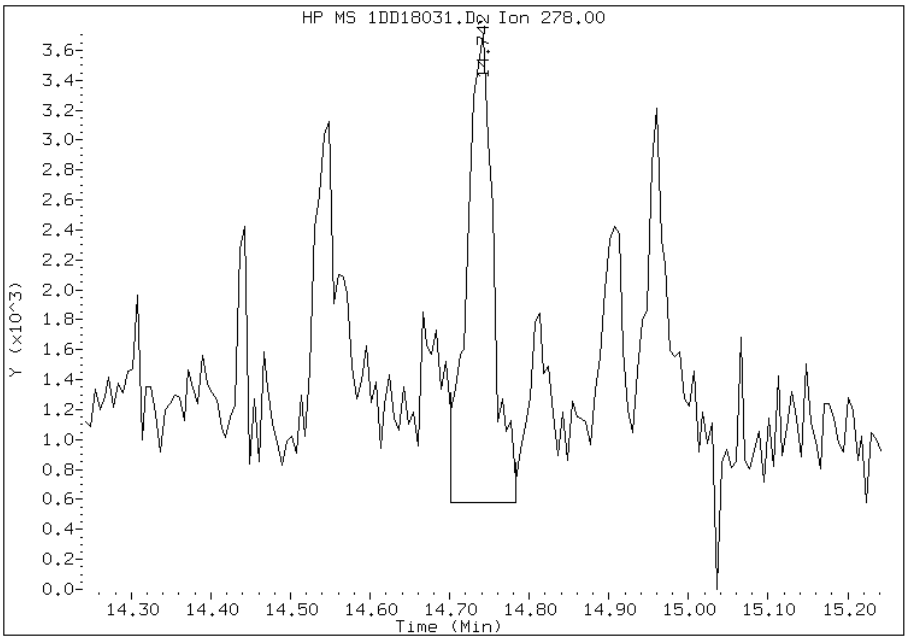
Manual Integration Results

RT: 14.74

Response: 7341

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD18031.D
Inj. Date and Time: 18-APR-2013 23:42
Instrument ID: BSMSD.i
Client ID: CV1099A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

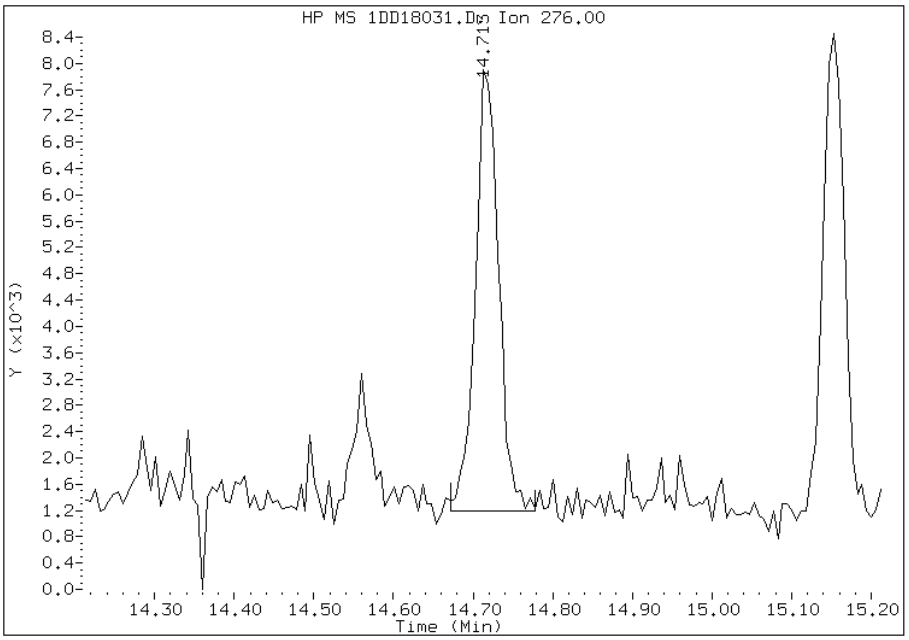
Processing Integration Results

RT: 14.71

Response: 13566

Amount: 0

Conc: 22



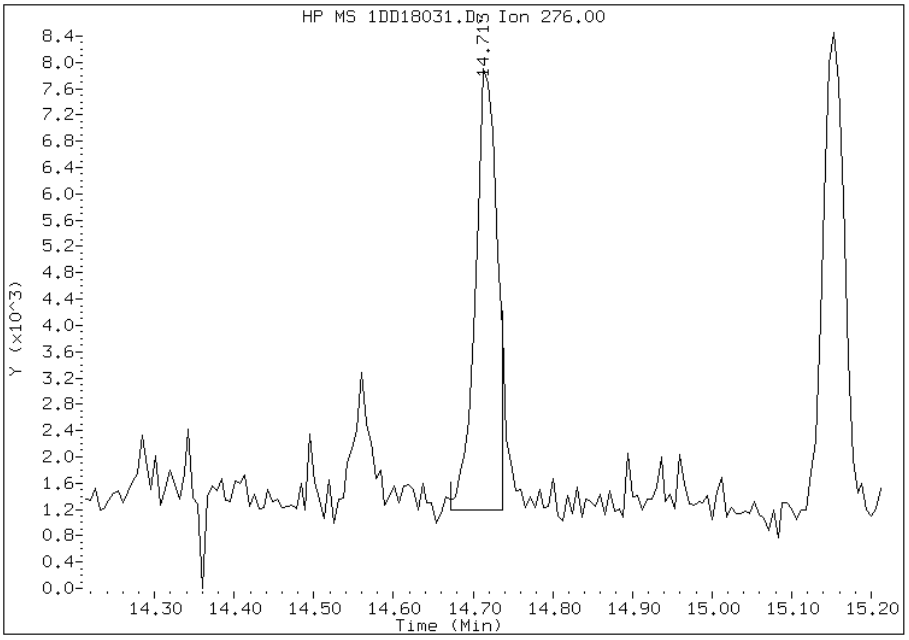
Manual Integration Results

RT: 14.71

Response: 12638

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: CV1160A-CS | Lab Sample ID: 680-89220-18

Matrix: Solid | Lab File ID: 1DD18032.D

Analysis Method: 8270C LL | Date Collected: 04/09/2013 13:35

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 14.73(g) | Date Analyzed: 04/19/2013 00:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 42.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	35
208-96-8	Acenaphthylene	71	U	71	8.8
120-12-7	Anthracene	32		15	7.4
56-55-3	Benzo[a]anthracene	160		14	6.9
50-32-8	Benzo[a]pyrene	160		18	9.2
205-99-2	Benzo[b]fluoranthene	270		22	11
191-24-2	Benzo[g,h,i]perylene	74		35	7.8
207-08-9	Benzo[k]fluoranthene	100		14	6.4
218-01-9	Chrysene	180		16	7.9
53-70-3	Dibenz(a,h)anthracene	30	J	35	7.2
206-44-0	Fluoranthene	280		35	7.1
86-73-7	Fluorene	15	J	35	7.2
193-39-5	Indeno[1,2,3-cd]pyrene	75		35	13
90-12-0	1-Methylnaphthalene	36	J	71	7.8
91-57-6	2-Methylnaphthalene	38	J	71	13
91-20-3	Naphthalene	37	J	71	7.8
85-01-8	Phenanthrene	180		14	6.9
129-00-0	Pyrene	210		35	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18032.D
Lab Smp Id: 680-89220-A-18-A Client Smp ID: CV1160A-CS
Inj Date : 19-APR-2013 00:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89220-A-18-A
Misc Info : 680-89220-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.730	Weight Extracted
M	42.280	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.062	6.062	(1.000)	2817466	40.0000	
* 6 Acenaphthene-d10	164	7.742	7.742	(1.000)	1791426	40.0000	
* 9 Phenanthrene-d10	188	9.006	8.999	(1.000)	3028559	40.0000	
$ 13 o-Terphenyl	230	9.311	9.311	(1.034)	276416	6.05745	710
* 17 Chrysene-d12	240	11.315	11.314	(1.000)	3073361	40.0000	
* 22 Perylene-d12	264	13.136	13.130	(1.000)	2587301	40.0000	
2 Naphthalene	128	6.086	6.085	(1.004)	21826	0.31167	37
3 2-Methylnaphthalene	142	6.791	6.790	(1.120)	14574	0.32239	38
4 1-Methylnaphthalene	142	6.885	6.884	(1.136)	13109	0.30707	36
5 Acenaphthylene	152	7.613	7.613	(0.983)	4408	0.05814	6.8
7 Acenaphthene	154	7.766	7.766	(1.003)	9711	0.20749	24
8 Fluorene	166	8.207	8.212	(1.060)	6961	0.12560	15
10 Phenanthrene	178	9.017	9.017	(1.001)	127784	1.53180	180
11 Anthracene	178	9.059	9.058	(1.006)	22785	0.27519	32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.200	9.199	(1.022)	20683	0.28320	33
14 Fluoranthene	202	10.005	10.004	(1.111)	205895	2.39848	280
15 Pyrene	202	10.193	10.192	(0.901)	165582	1.79409	210
16 Benzo(a)anthracene	228	11.297	11.291	(0.998)	119075	1.34007	160
18 Chrysene	228	11.332	11.338	(1.002)	128386	1.54095	180
19 Benzo(b)fluoranthene	252	12.590	12.583	(0.958)	146631	2.26873	270
20 Benzo(k)fluoranthene	252	12.619	12.625	(0.961)	59859	0.87912	100
21 Benzo(a)pyrene	252	13.036	13.036	(0.992)	87385	1.34564	160
23 Indeno(1,2,3-cd)pyrene	276	14.705	14.704	(1.119)	44273	0.63937	75(M)
24 Dibenzo(a,h)anthracene	278	14.728	14.734	(1.121)	16885	0.25895	30
25 Benzo(g,h,i)perylene	276	15.134	15.145	(1.152)	41848	0.62766	74

QC Flag Legend

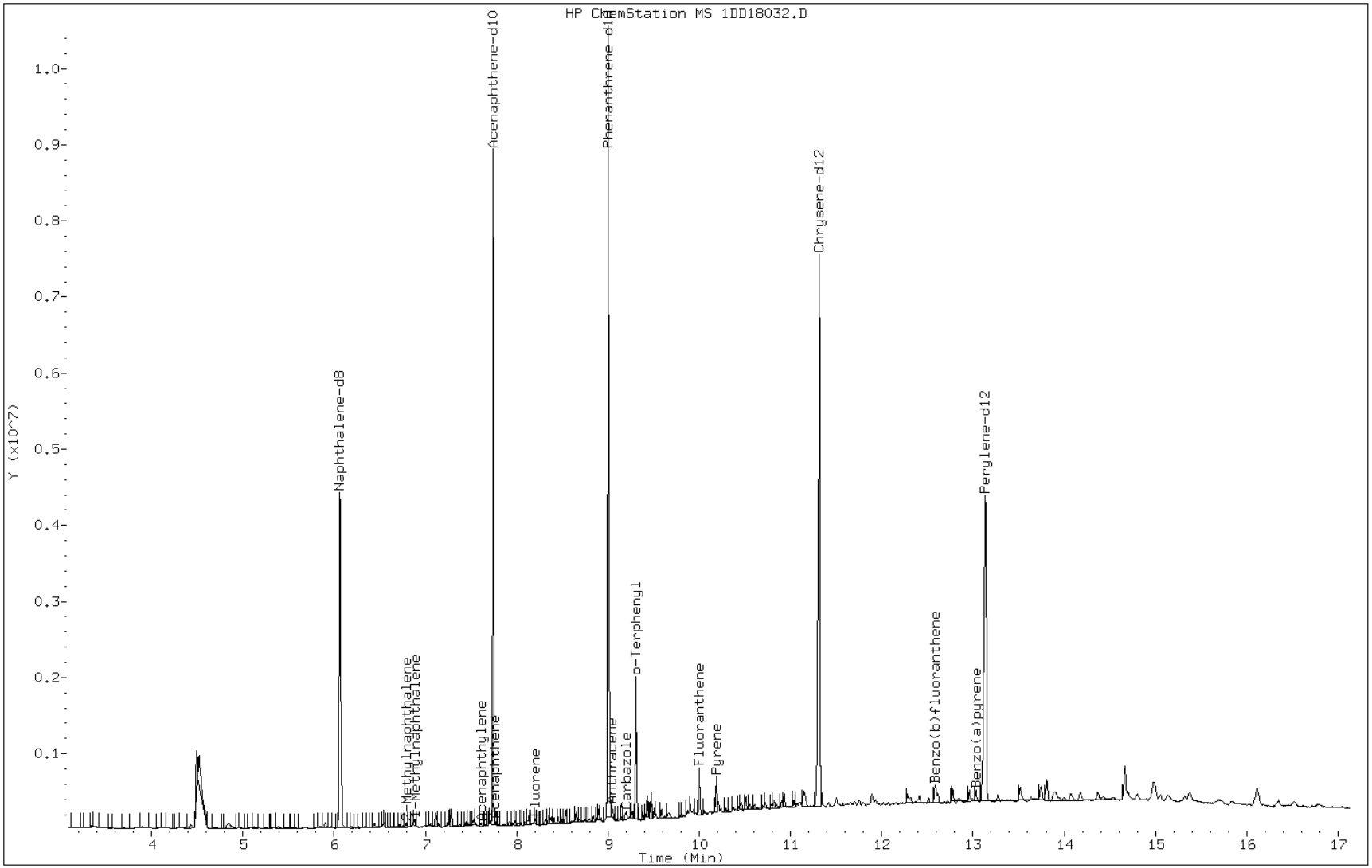
M - Compound response manually integrated.

Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC



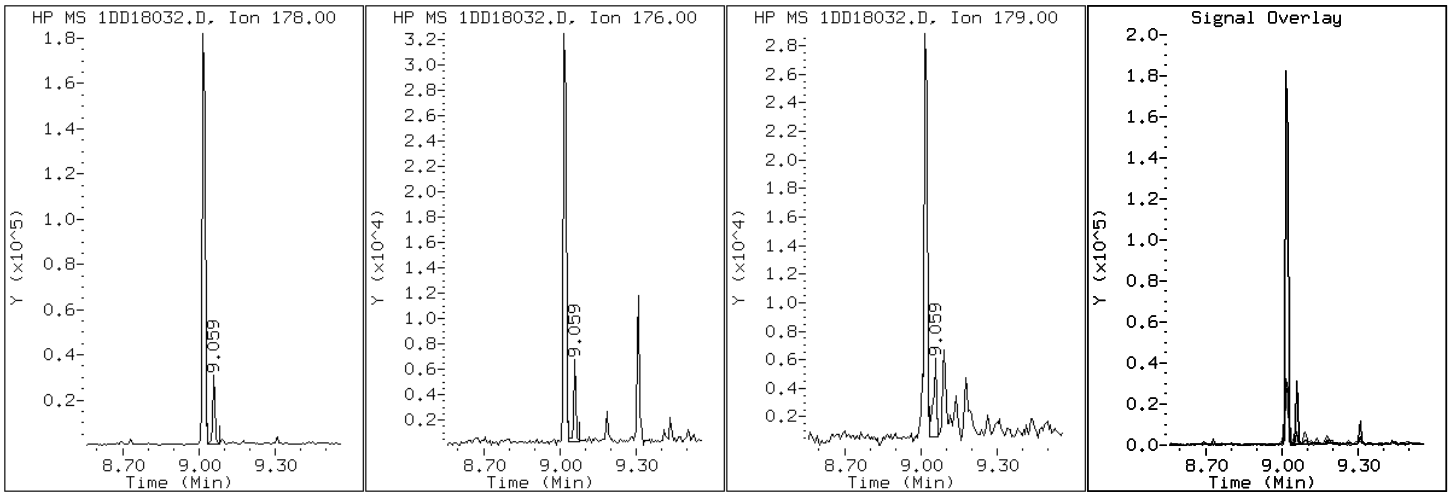
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

11 Anthracene



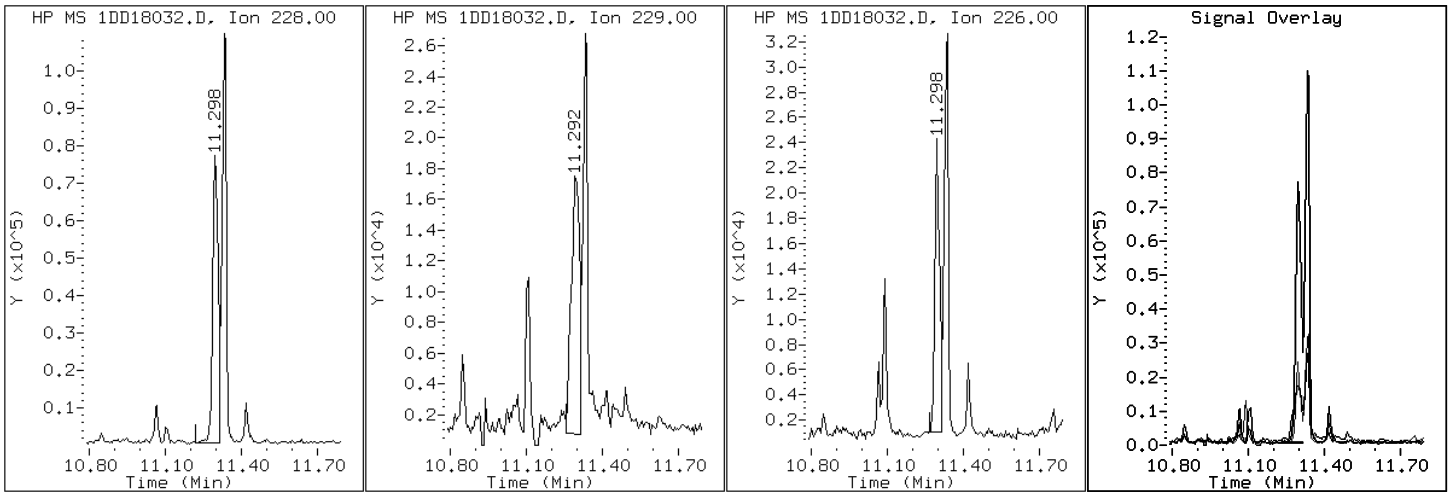
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

16 Benzo(a)anthracene



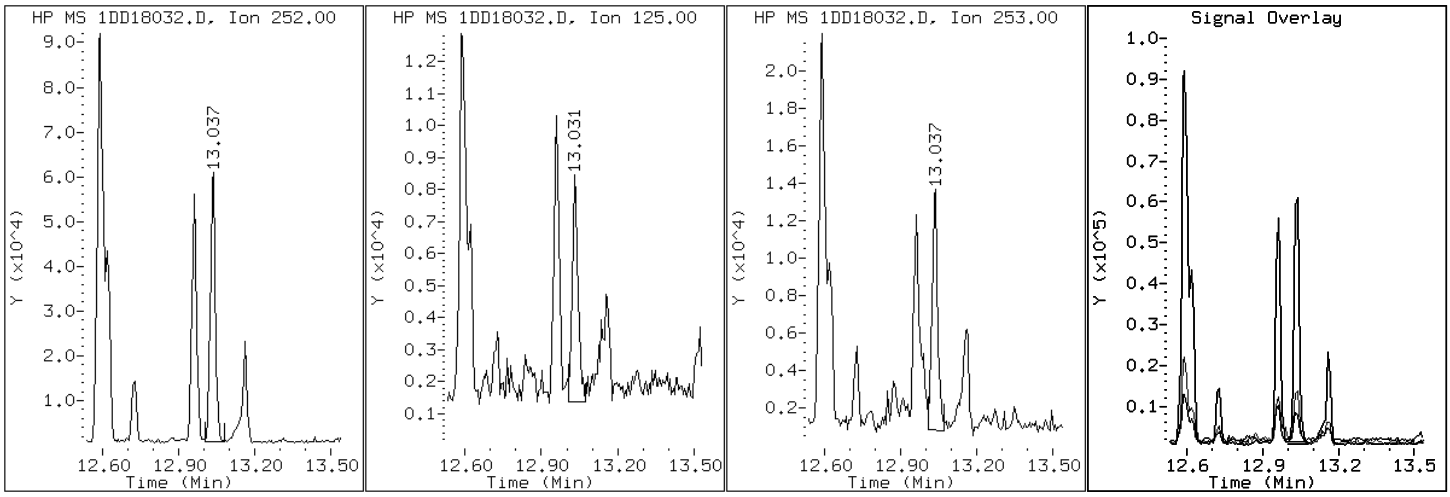
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

21 Benzo(a)pyrene



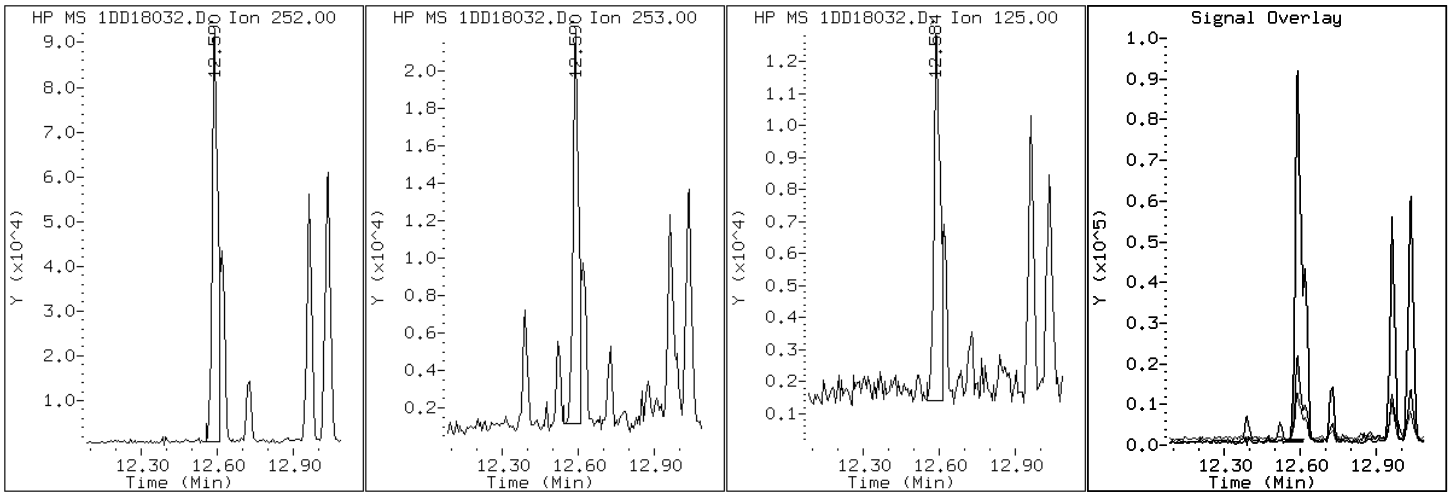
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

19 Benzo(b)fluoranthene



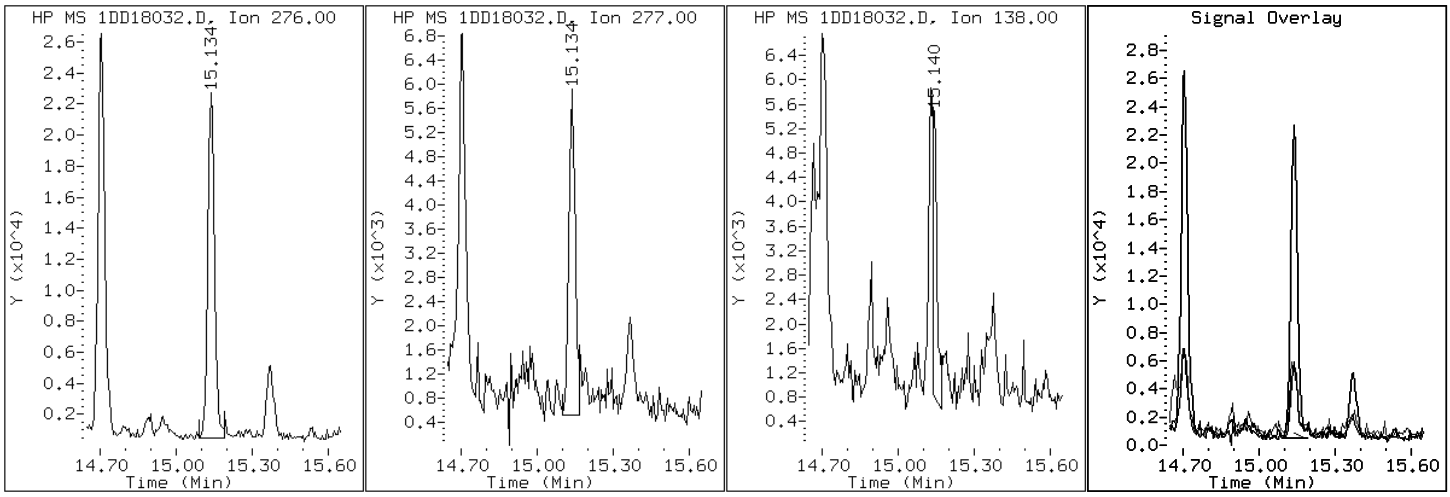
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

25 Benzo(g,h,i)perylene



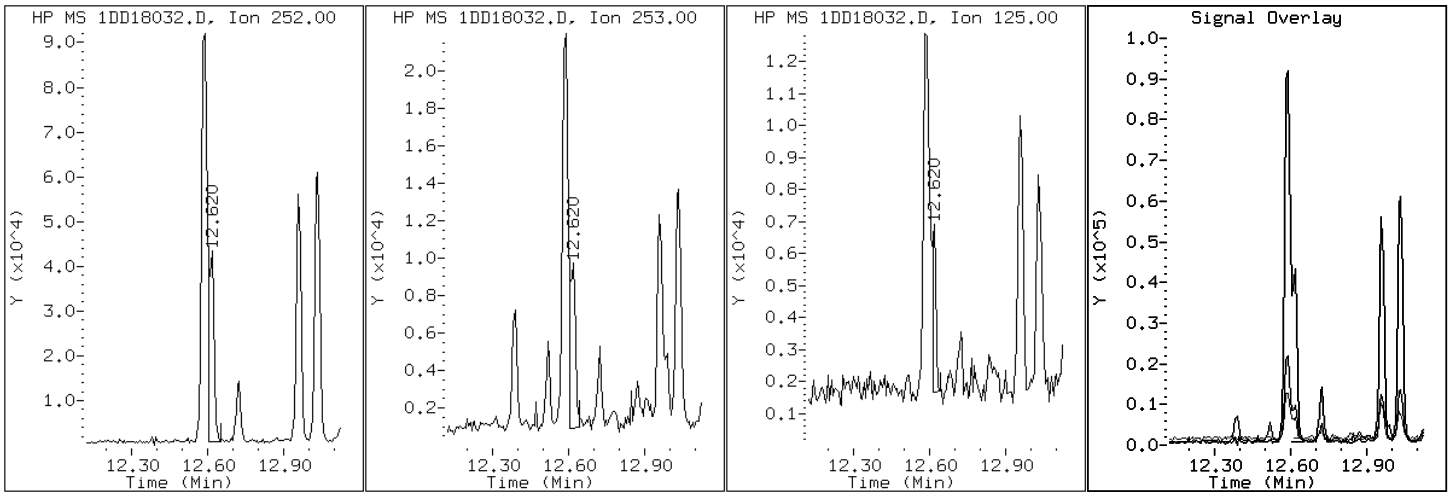
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

20 Benzo(k)fluoranthene



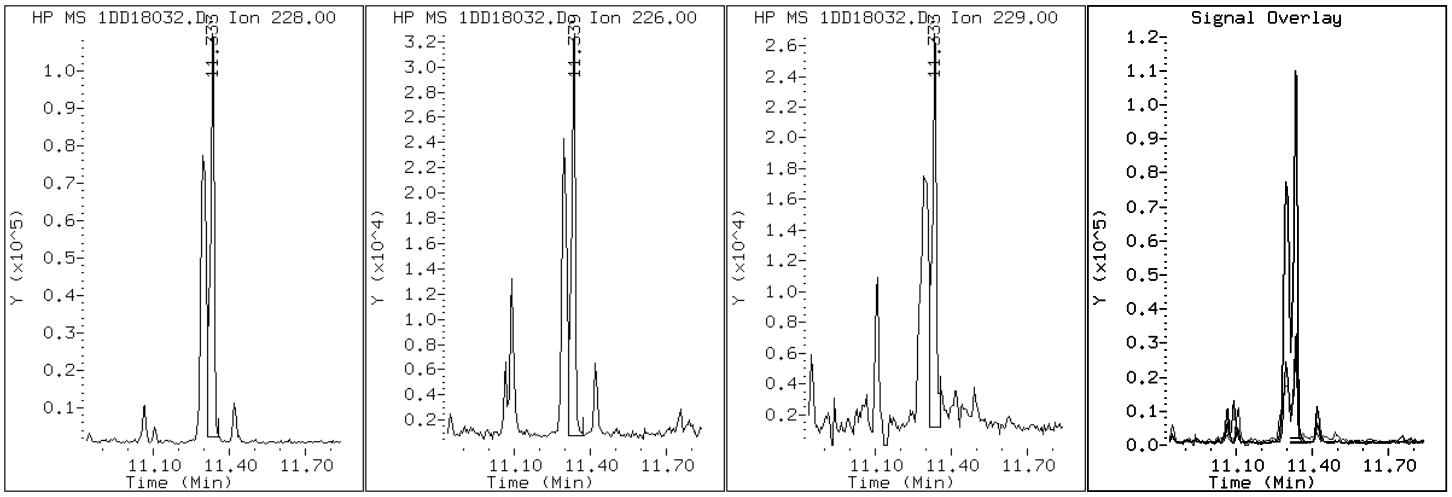
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

18 Chrysene



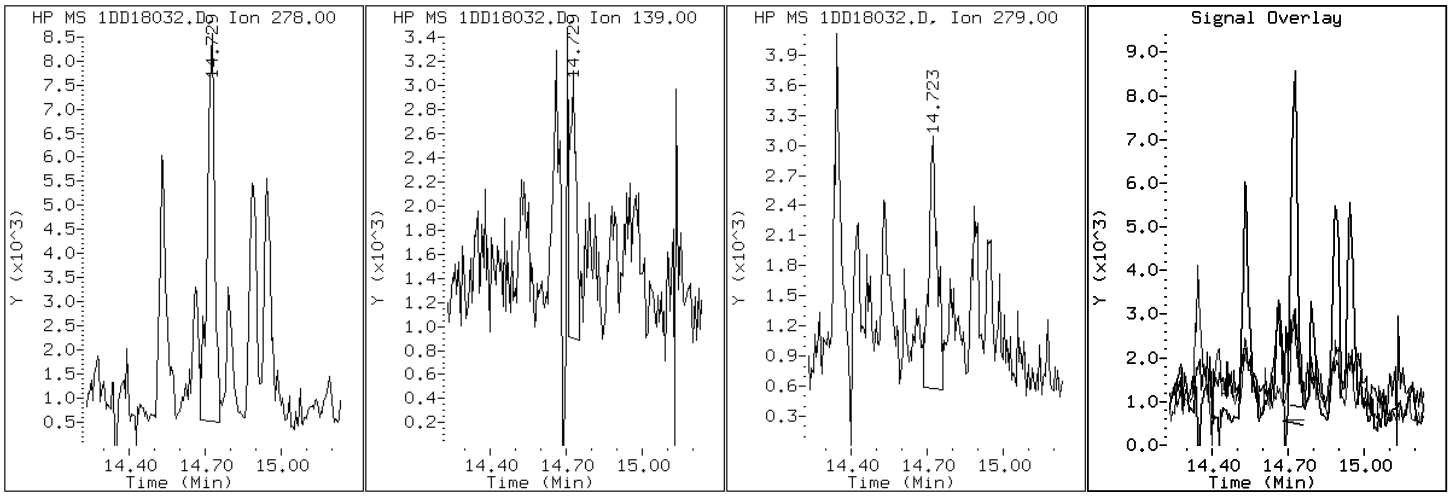
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

24 Dibenzo(a,h)anthracene



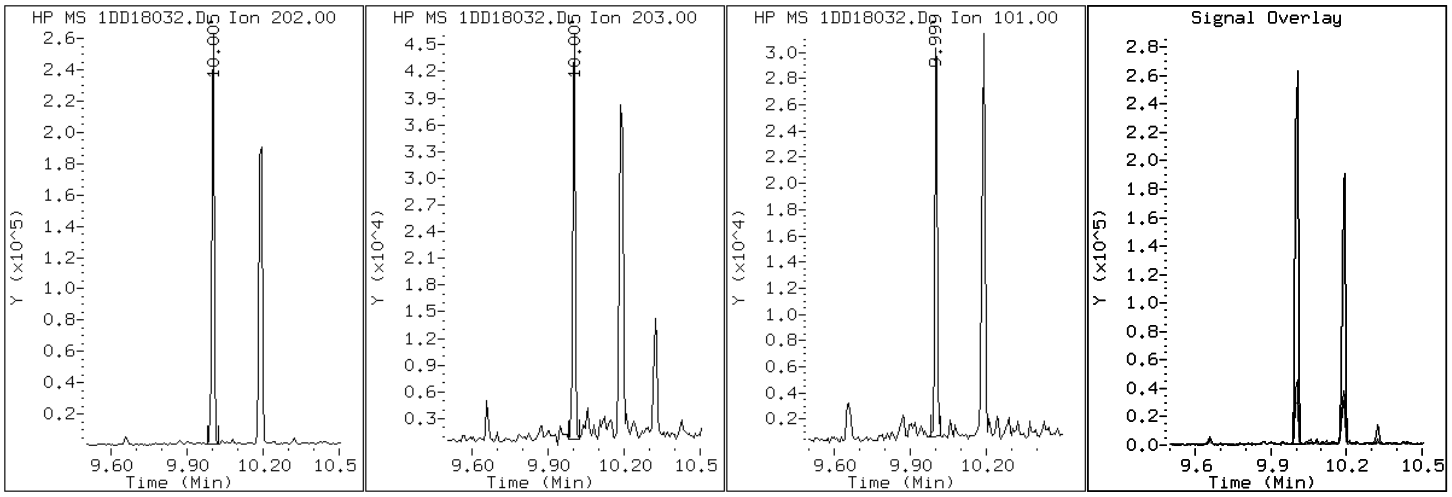
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

14 Fluoranthene



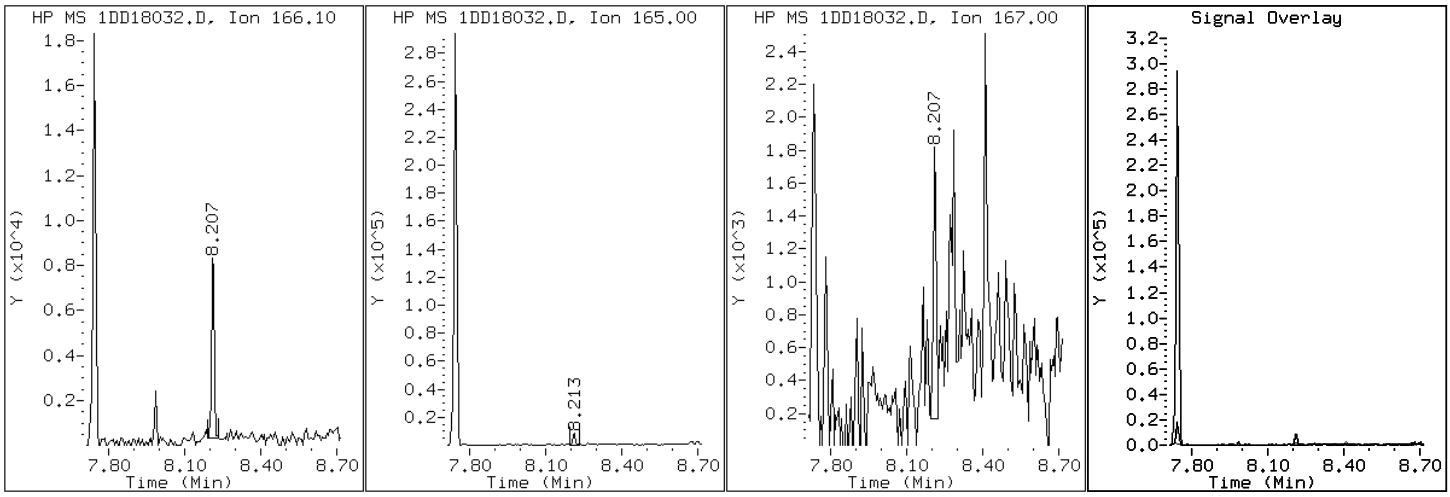
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

8 Fluorene



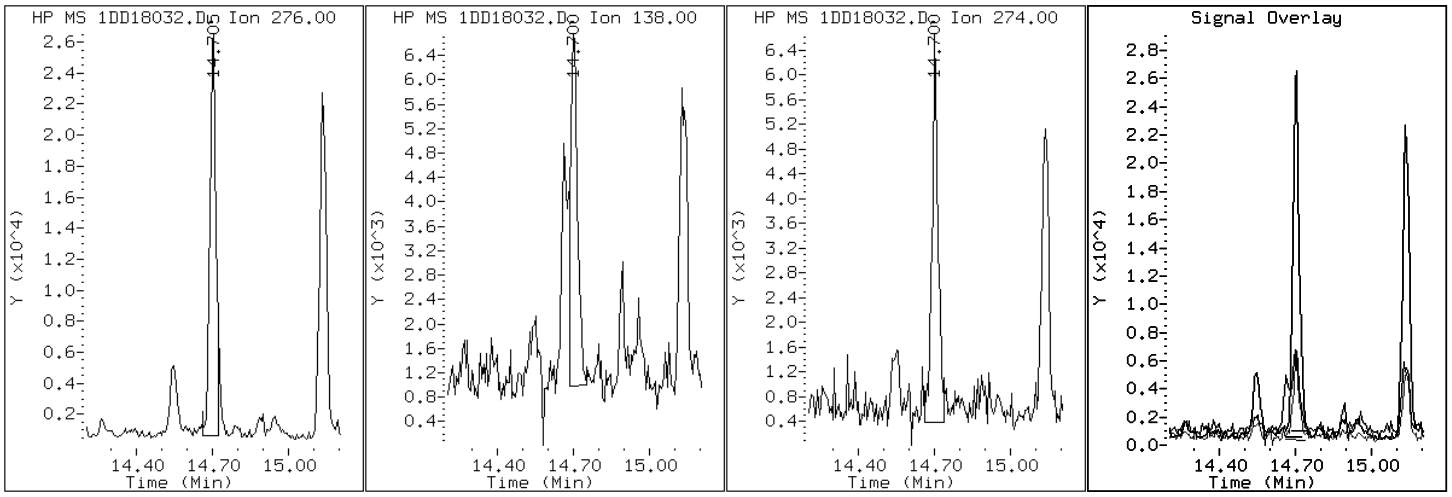
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

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



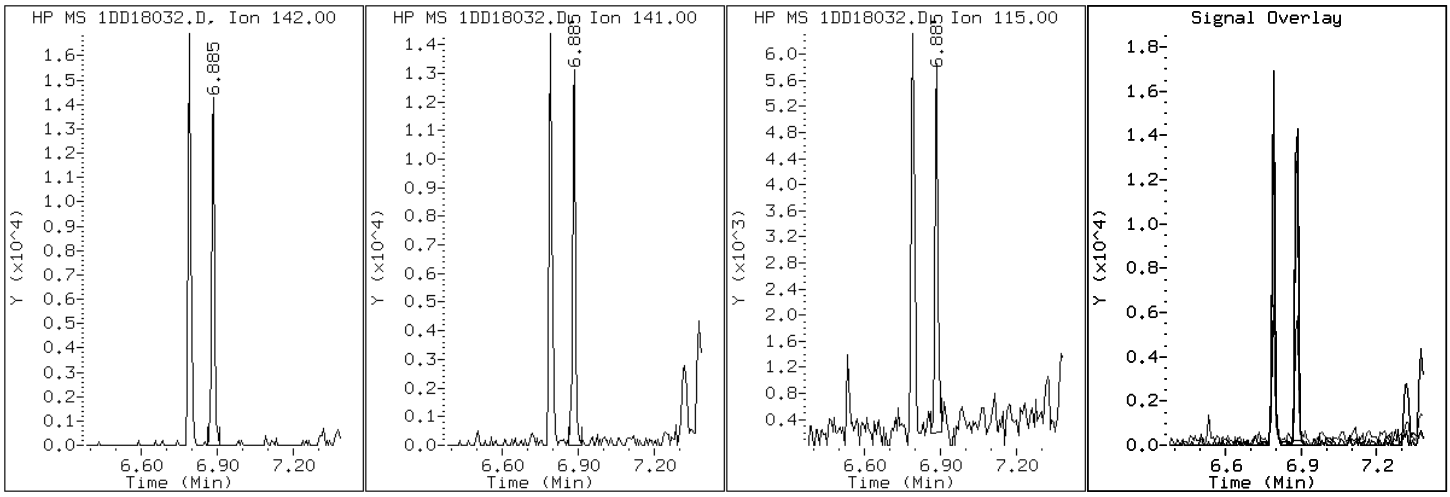
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

4 1-Methylnaphthalene



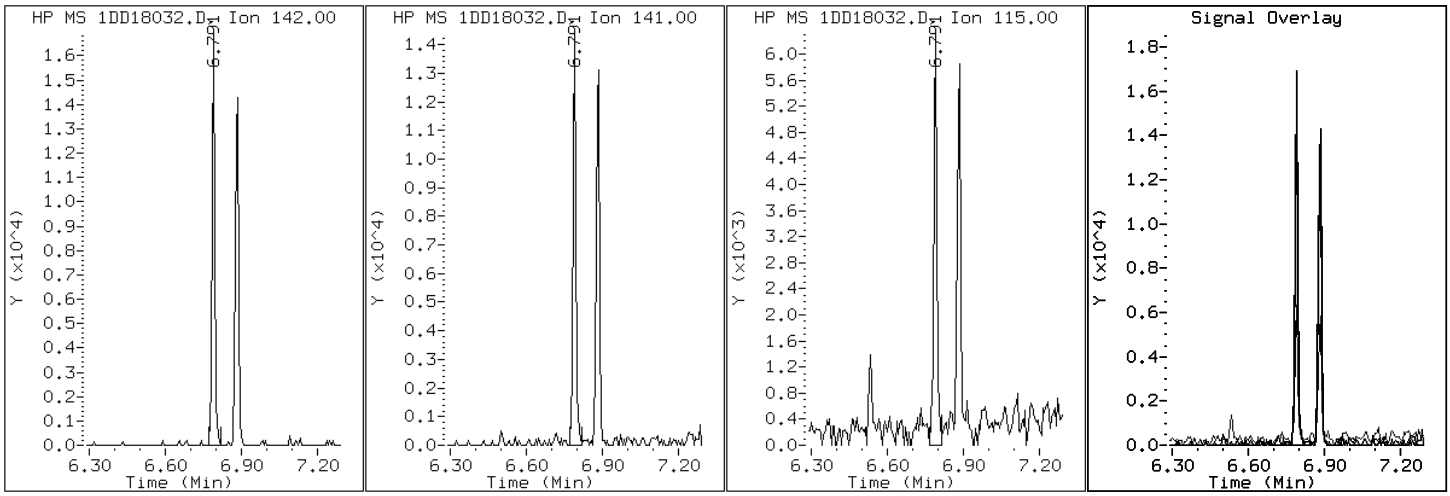
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

3 2-Methylnaphthalene



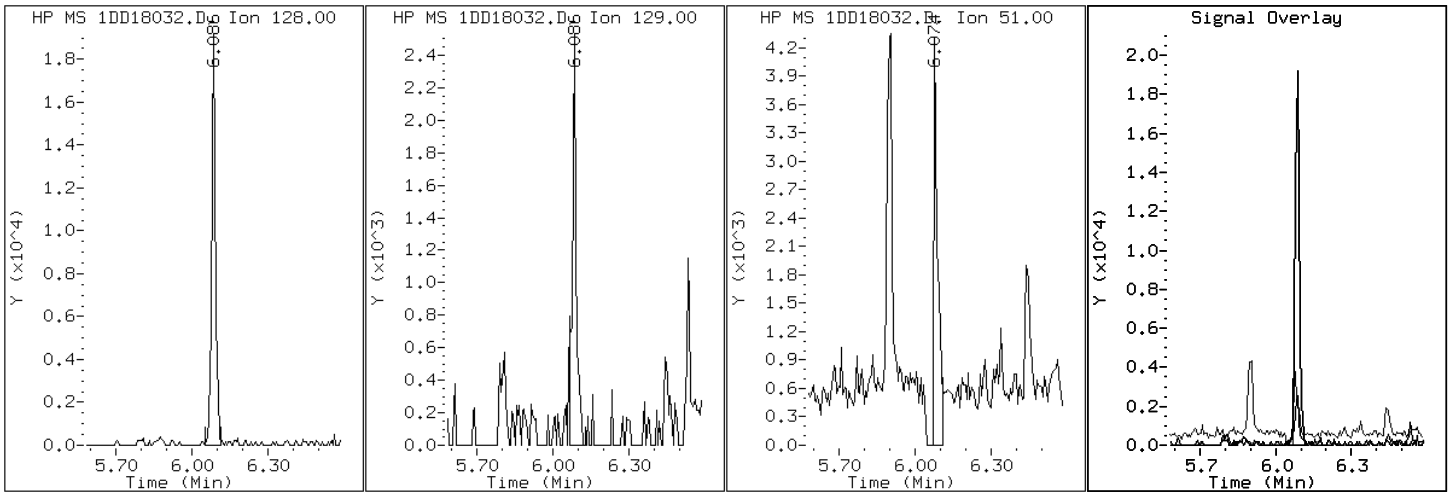
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

2 Naphthalene



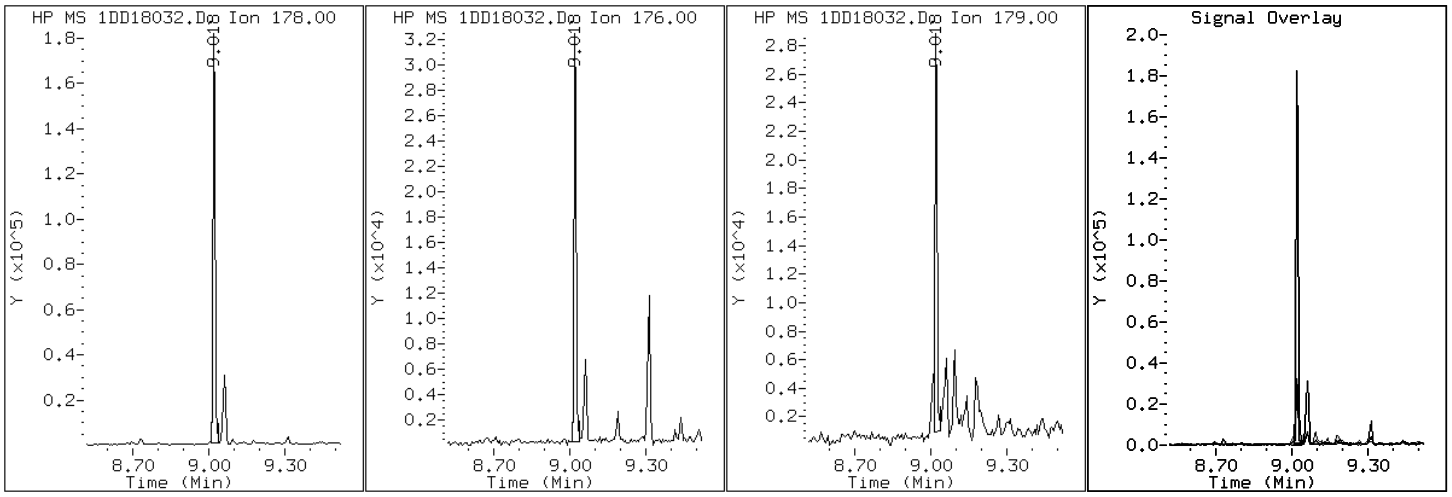
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

10 Phenanthrene



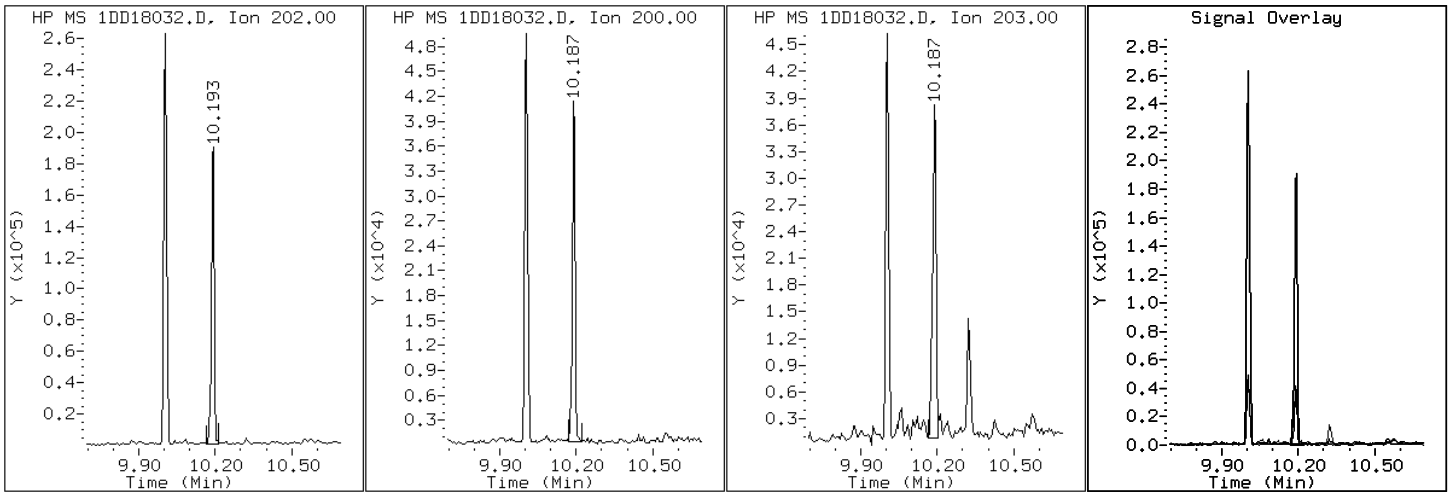
Data File: 1DD18032.D

Date: 19-APR-2013 00:04

Client ID: CV1160A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-18-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD18032.D
Inj. Date and Time: 19-APR-2013 00:04
Instrument ID: BSMSD.i
Client ID: CV1160A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

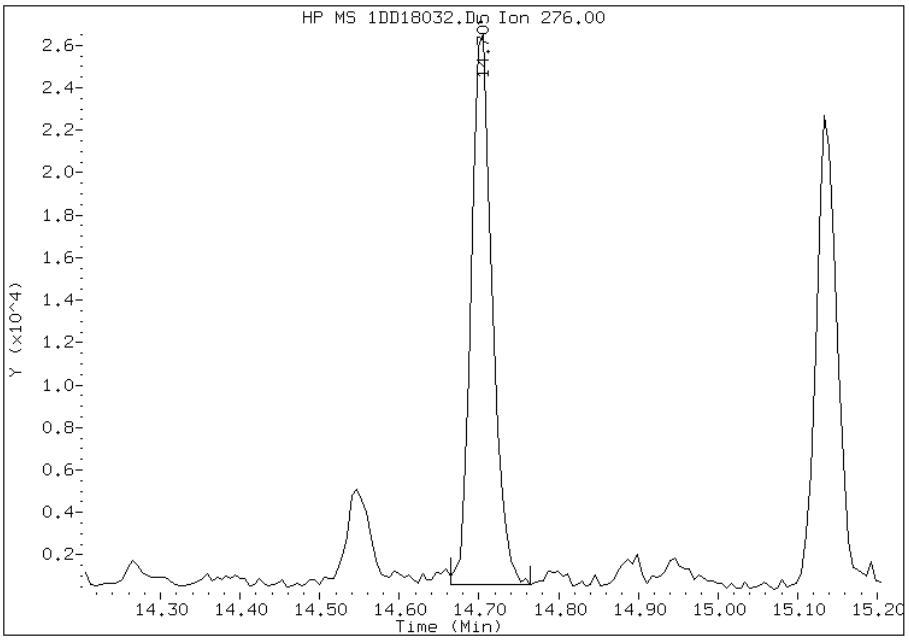
Processing Integration Results

RT: 14.71

Response: 47387

Amount: 1

Conc: 80



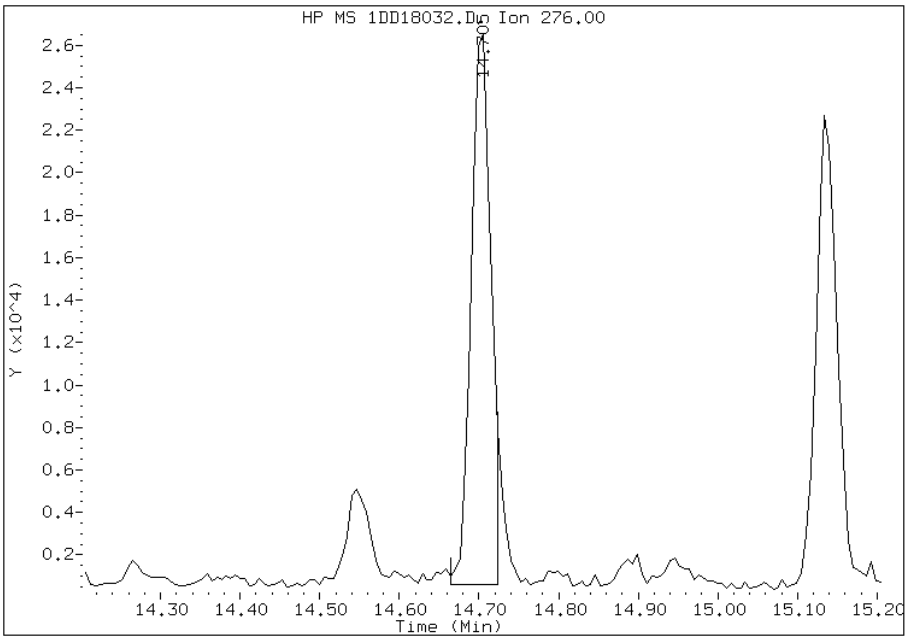
Manual Integration Results

RT: 14.71

Response: 44273

Amount: 1

Conc: 75



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: CV1160A-CSD | Lab Sample ID: 680-89220-19

Matrix: Solid | Lab File ID: 1DD18033.D

Analysis Method: 8270C LL | Date Collected: 04/09/2013 13:35

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 15.11(g) | Date Analyzed: 04/19/2013 00:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	380	J	540	110
208-96-8	Acenaphthylene	38	J	210	27
120-12-7	Anthracene	440		45	23
56-55-3	Benzo[a]anthracene	1700		43	21
50-32-8	Benzo[a]pyrene	1600		56	28
205-99-2	Benzo[b]fluoranthene	2900		66	33
191-24-2	Benzo[g,h,i]perylene	660		110	24
207-08-9	Benzo[k]fluoranthene	890		43	19
218-01-9	Chrysene	1800		48	24
53-70-3	Dibenz(a,h)anthracene	270		110	22
206-44-0	Fluoranthene	3300		110	21
86-73-7	Fluorene	230		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	730		110	38
90-12-0	1-Methylnaphthalene	250		210	24
91-57-6	2-Methylnaphthalene	310		210	38
91-20-3	Naphthalene	360		210	24
85-01-8	Phenanthrene	2400		43	21
129-00-0	Pyrene	2300		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18033.D
Lab Smp Id: 680-89220-A-19-A Client Smp ID: CV1160A-CSD
Inj Date : 19-APR-2013 00:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89220-A-19-A
Misc Info : 680-89220-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 30
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	26.042	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.066	6.062	(1.000)	2664229	40.0000	
* 6	Acenaphthene-d10	164	7.747	7.742	(1.000)	1693109	40.0000	
* 9	Phenanthrene-d10	188	9.004	8.999	(1.000)	2891853	40.0000	
$ 13	o-Terphenyl	230	9.310	9.311	(1.034)	73390	1.68431	600
* 17	Chrysene-d12	240	11.319	11.314	(1.000)	2978055	40.0000	
* 22	Perylene-d12	264	13.140	13.130	(1.000)	2416132	40.0000	
2	Naphthalene	128	6.090	6.085	(1.004)	67030	1.01222	360
3	2-Methylnaphthalene	142	6.789	6.790	(1.119)	37261	0.87165	310
4	1-Methylnaphthalene	142	6.883	6.884	(1.135)	28613	0.70879	250
5	Acenaphthylene	152	7.612	7.613	(0.983)	7681	0.10719	38
7	Acenaphthene	154	7.770	7.766	(1.003)	47392	1.07141	380
8	Fluorene	166	8.211	8.212	(1.060)	34264	0.65413	230
10	Phenanthrene	178	9.022	9.017	(1.002)	534189	6.70627	2400
11	Anthracene	178	9.063	9.058	(1.007)	97745	1.23634	440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.204	9.199	(1.022)	90076	1.29167	460
14 Fluoranthene	202	10.003	10.004	(1.111)	754401	9.20349	3300
15 Pyrene	202	10.191	10.192	(0.900)	572082	6.39693	2300
16 Benzo(a)anthracene	228	11.301	11.291	(0.998)	398102	4.62364	1600
18 Chrysene	228	11.337	11.338	(1.002)	417011	5.16533	1800
19 Benzo(b)fluoranthene	252	12.594	12.583	(0.958)	492299	8.15665	2900
20 Benzo(k)fluoranthene	252	12.623	12.625	(0.961)	158620	2.49462	890
21 Benzo(a)pyrene	252	13.041	13.036	(0.992)	270531	4.46102	1600
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.704	(1.119)	132719	2.05245	730(M)
24 Dibenzo(a,h)anthracene	278	14.733	14.734	(1.121)	45317	0.74421	270
25 Benzo(g,h,i)perylene	276	15.144	15.145	(1.152)	115664	1.85769	660

QC Flag Legend

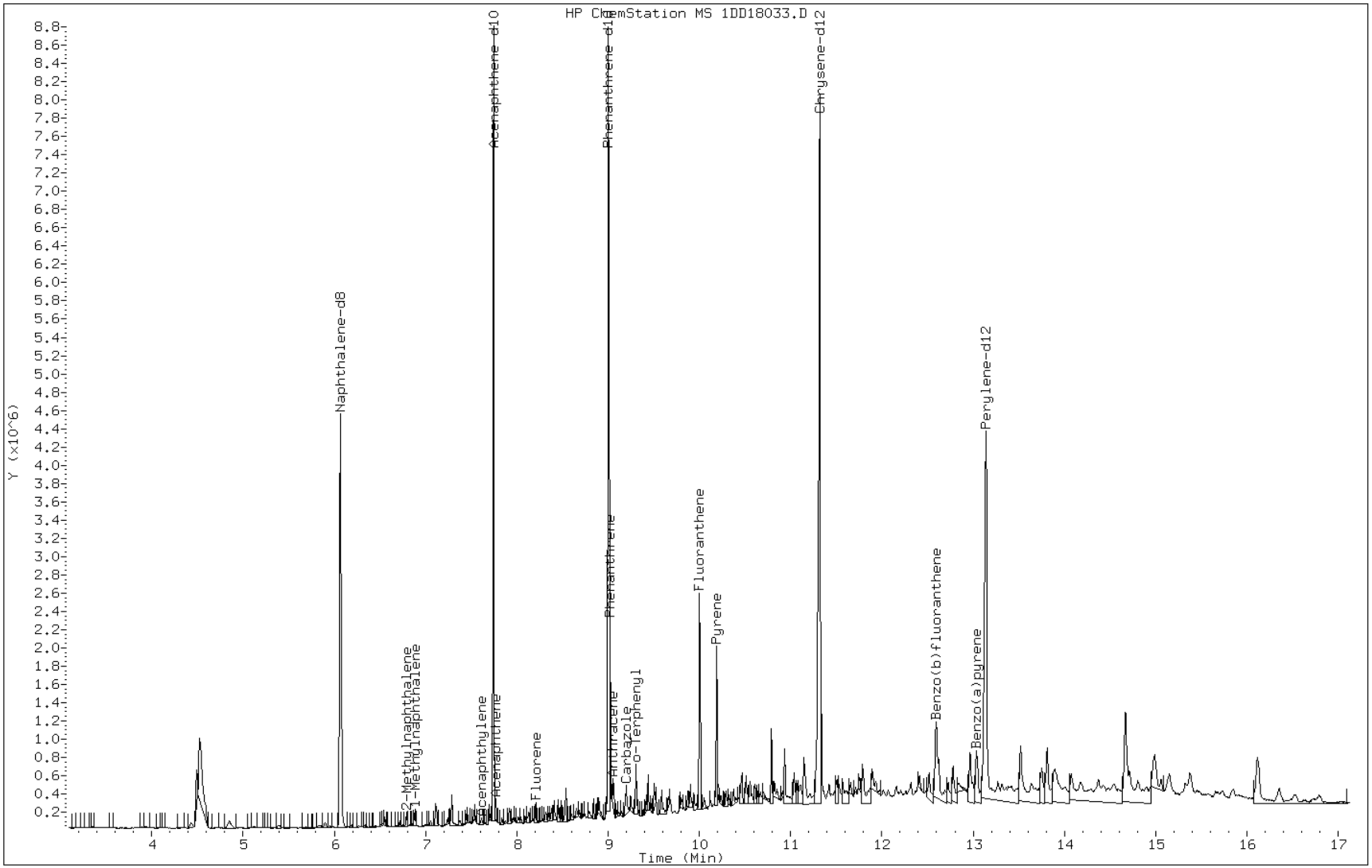
M - Compound response manually integrated.

Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC



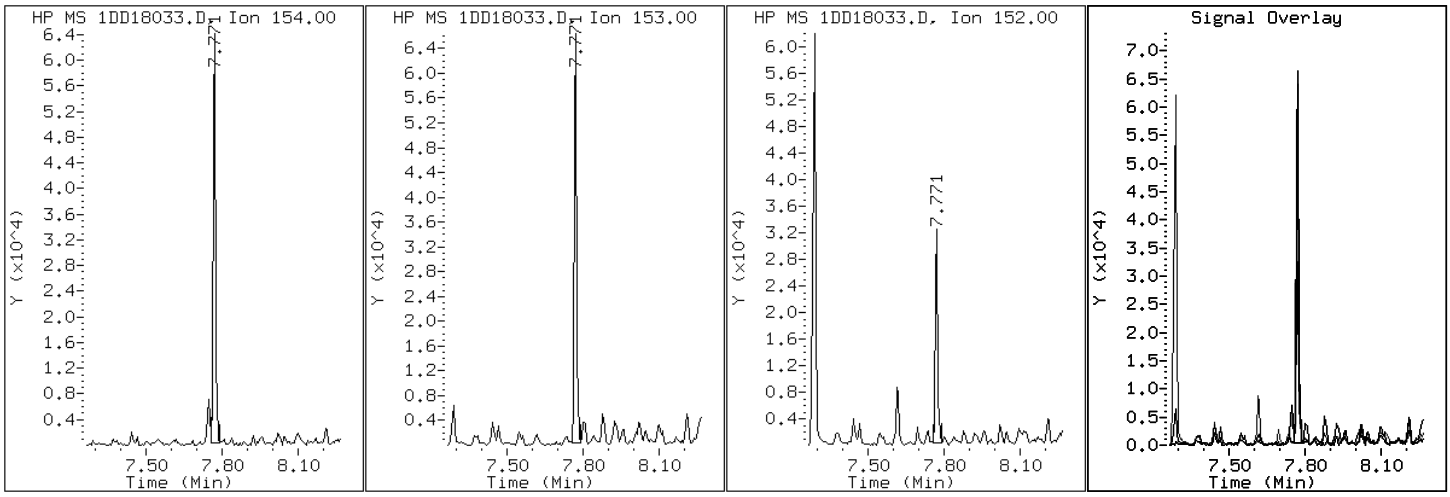
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

7 Acenaphthene



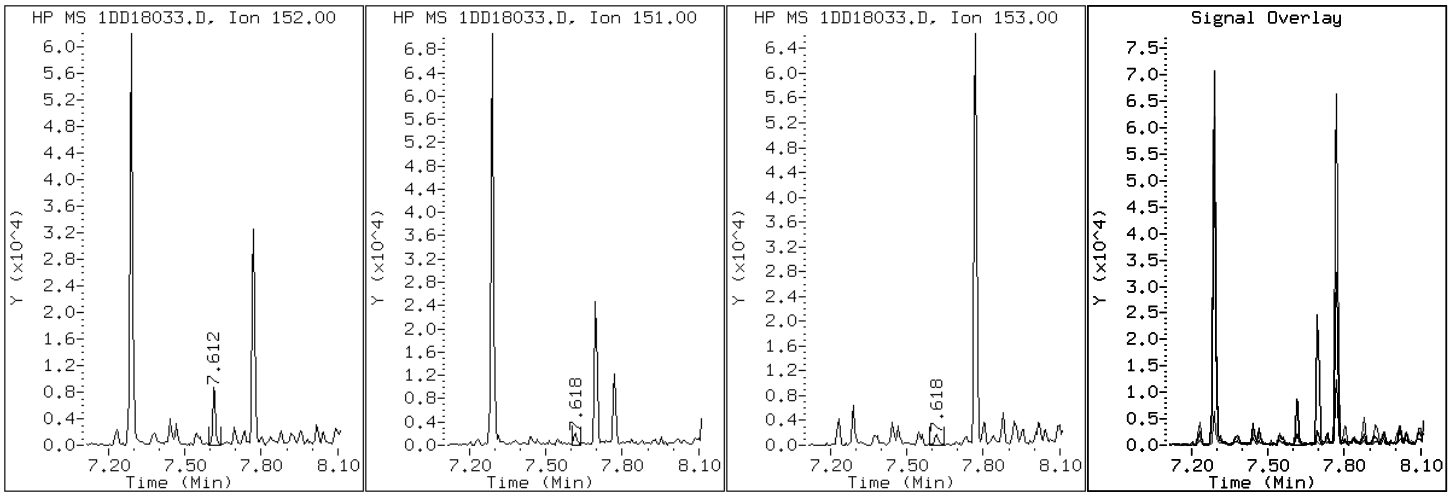
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

5 Acenaphthylene



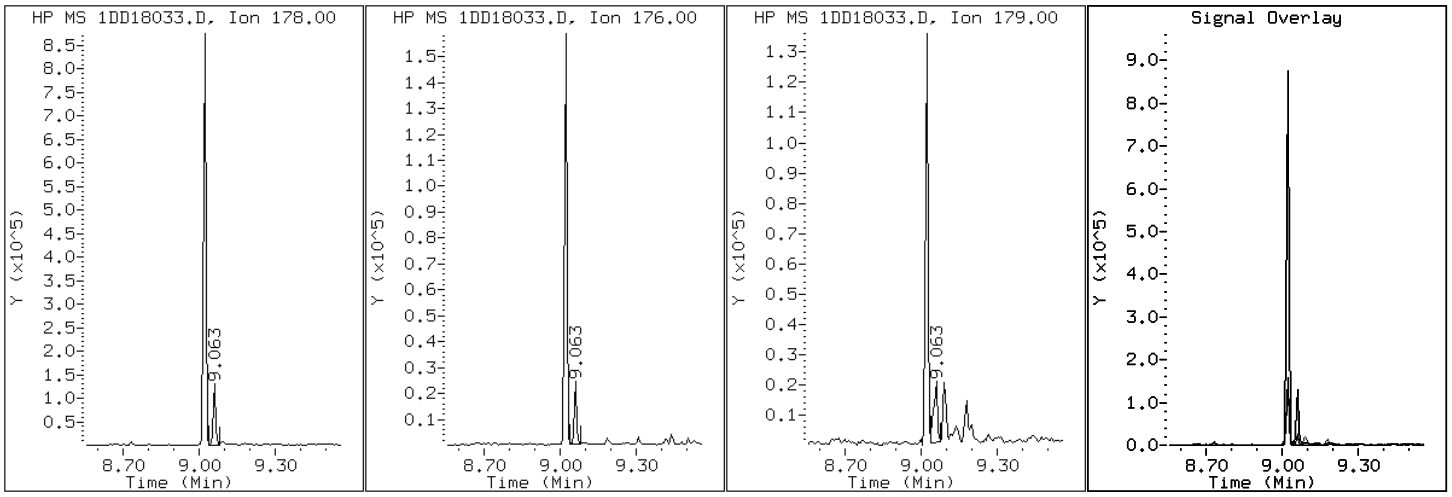
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

11 Anthracene



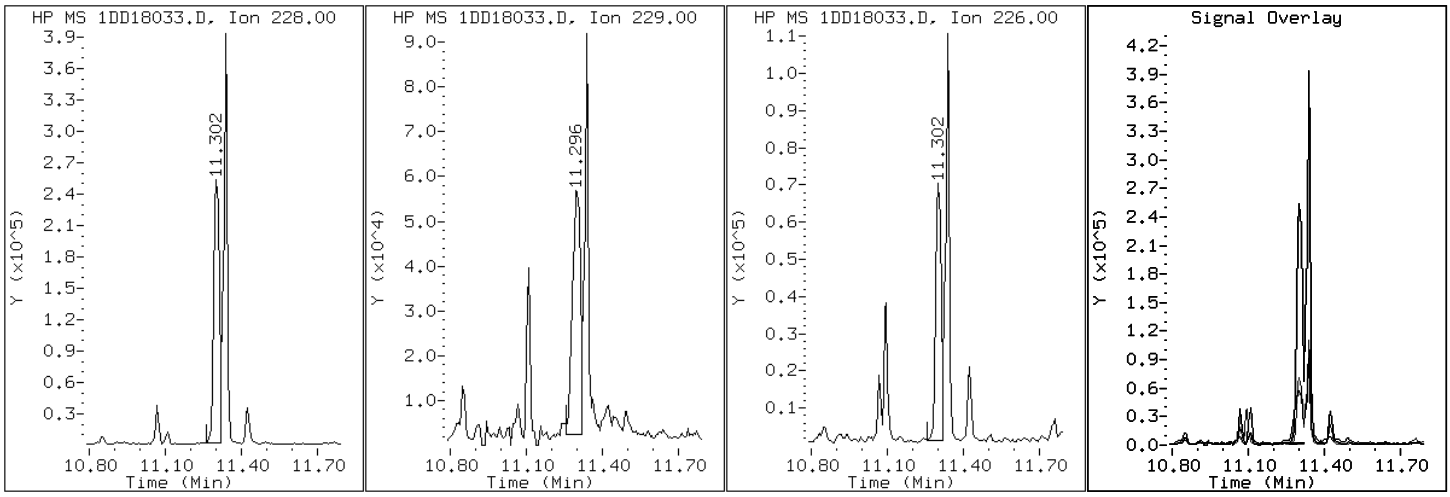
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

16 Benzo(a)anthracene



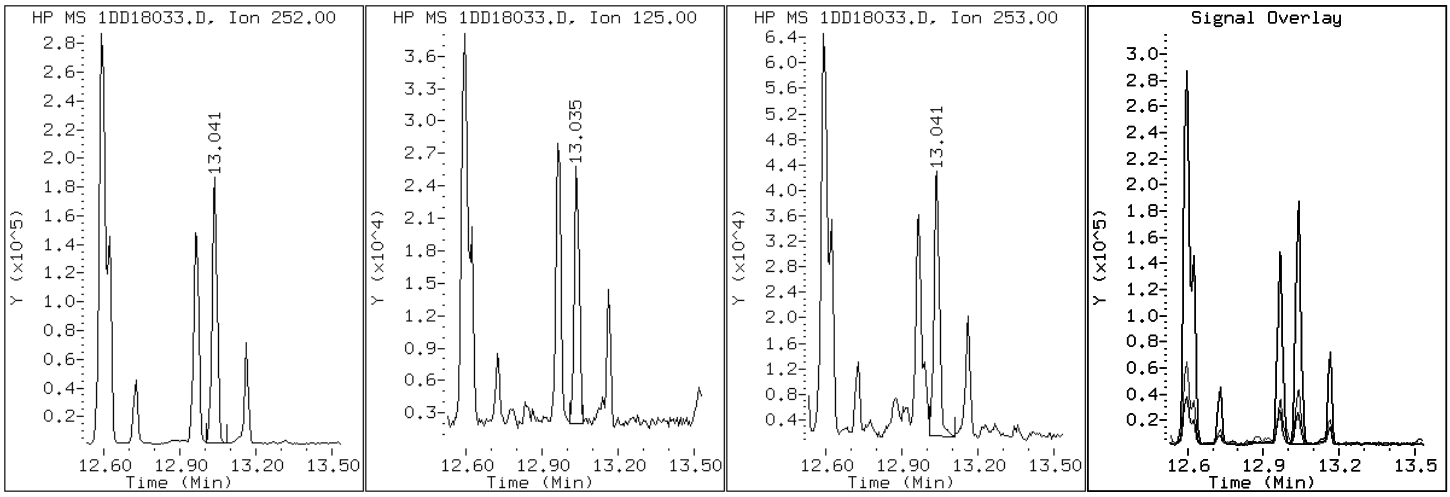
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

21 Benzo(a)pyrene



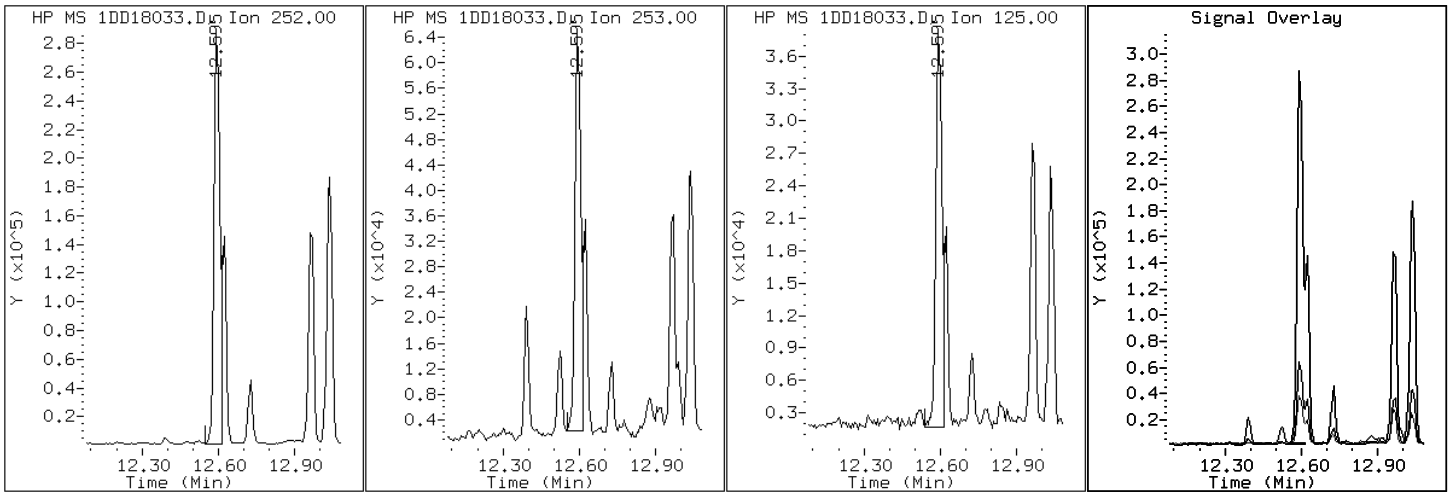
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

19 Benzo(b)fluoranthene



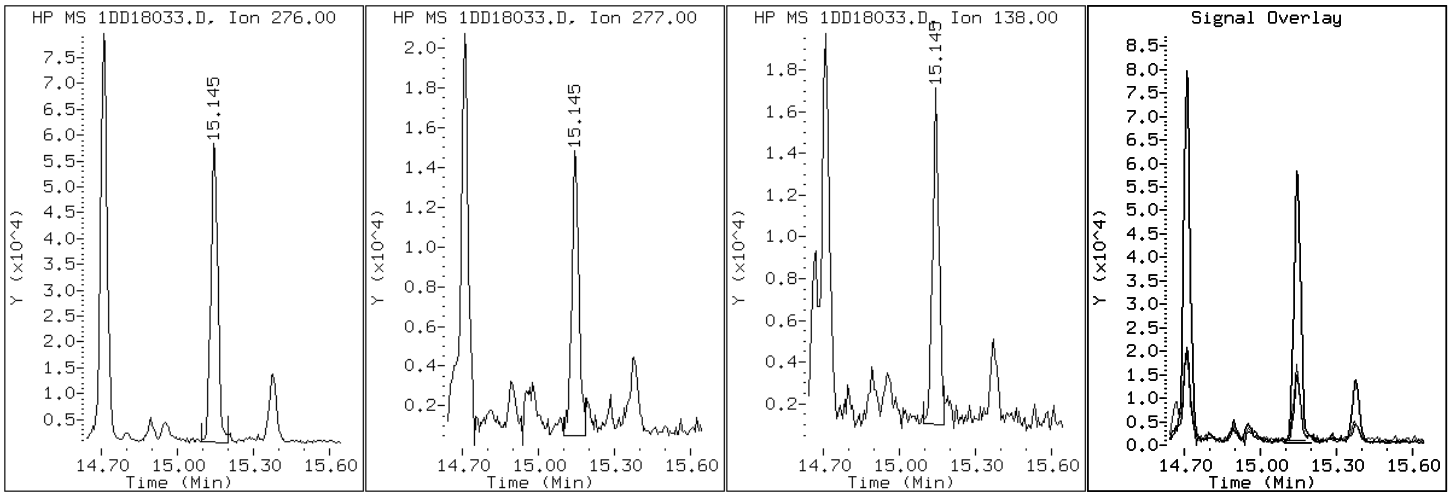
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

25 Benzo(g,h,i)perylene



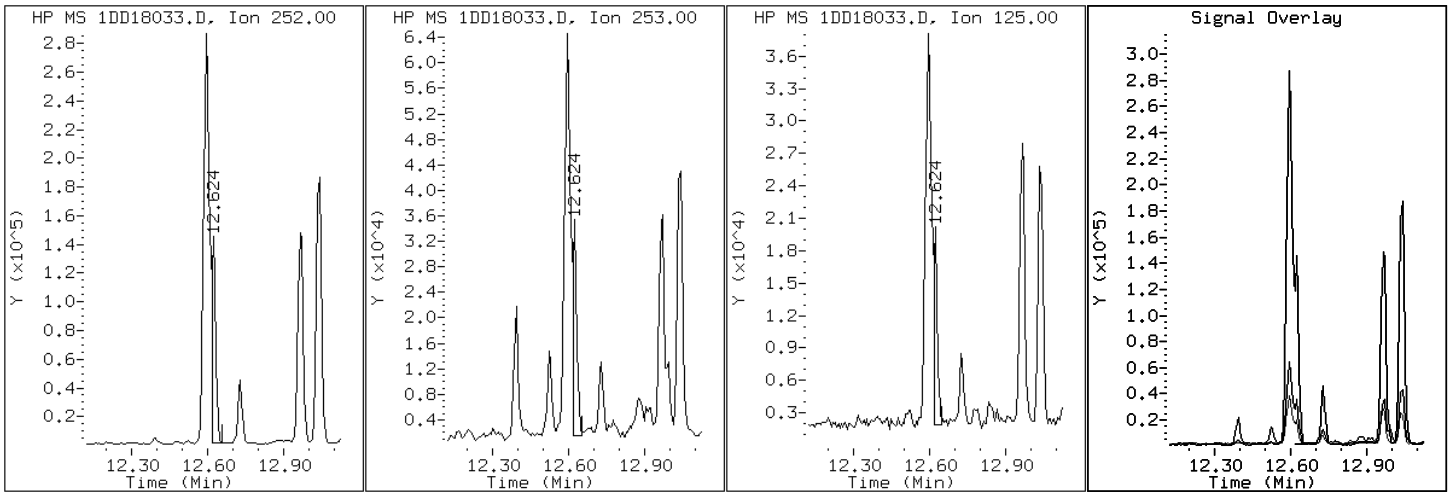
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

20 Benzo(k)fluoranthene



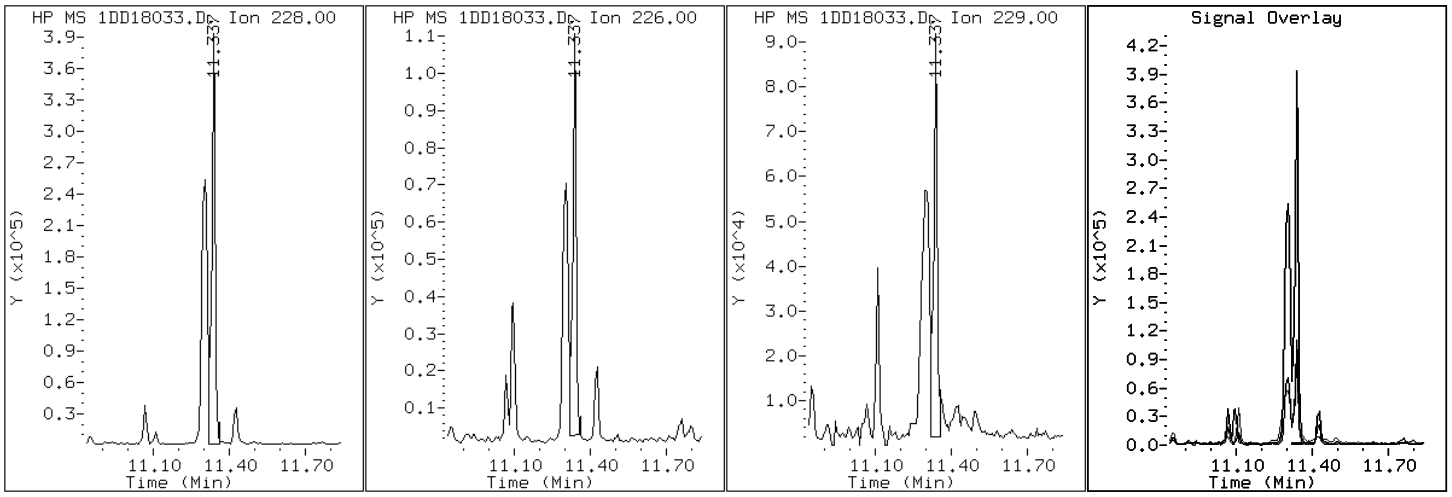
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

18 Chrysene



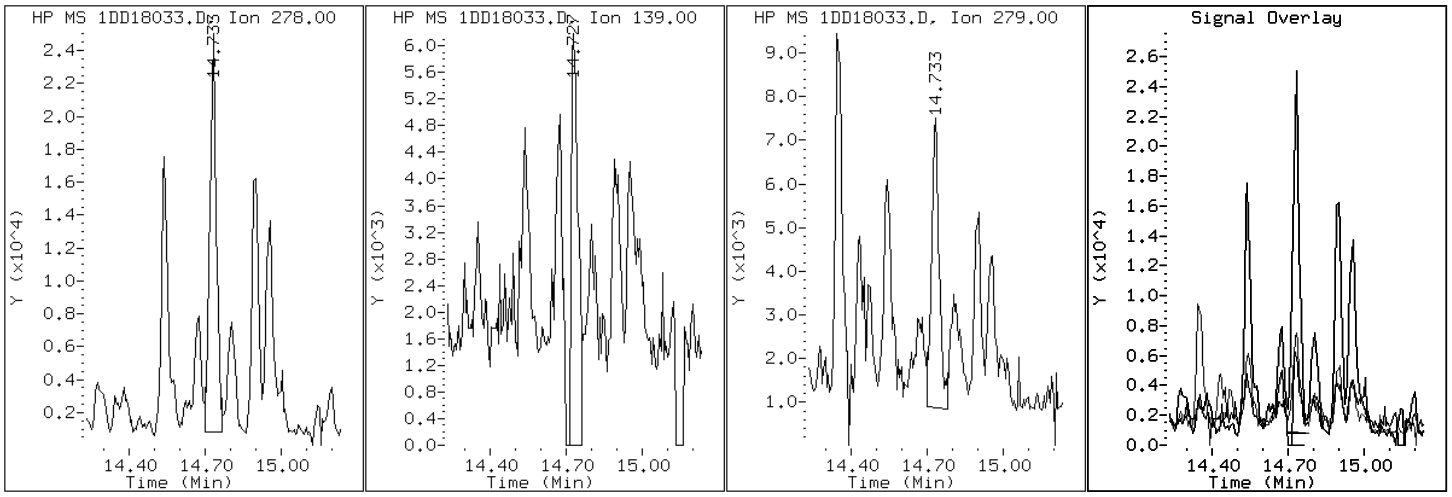
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

24 Dibenzo(a,h)anthracene



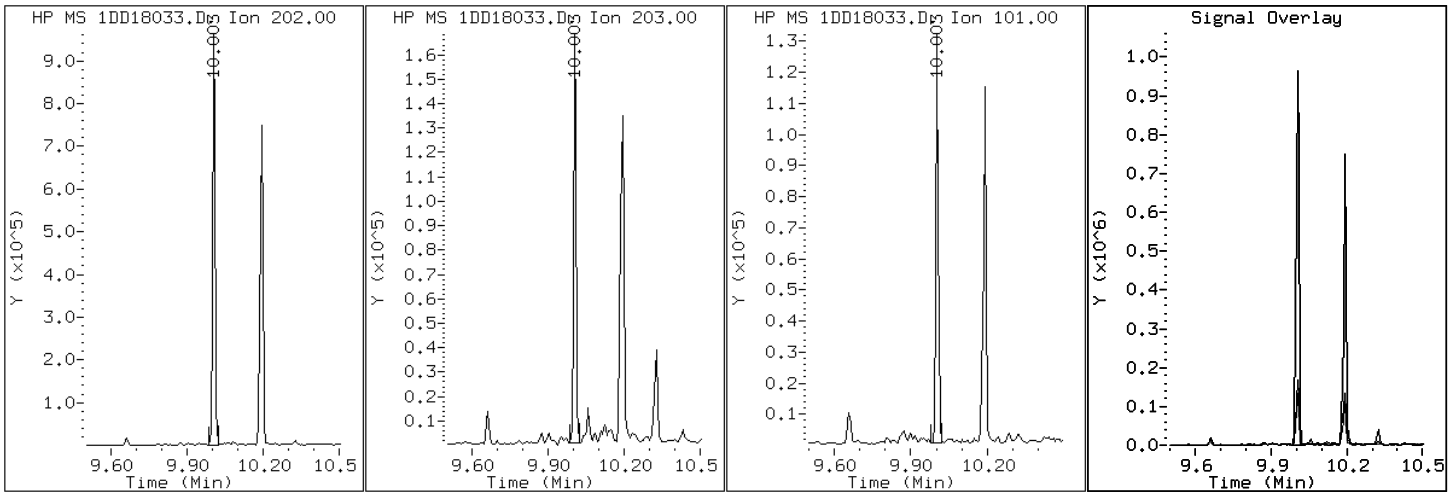
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

14 Fluoranthene



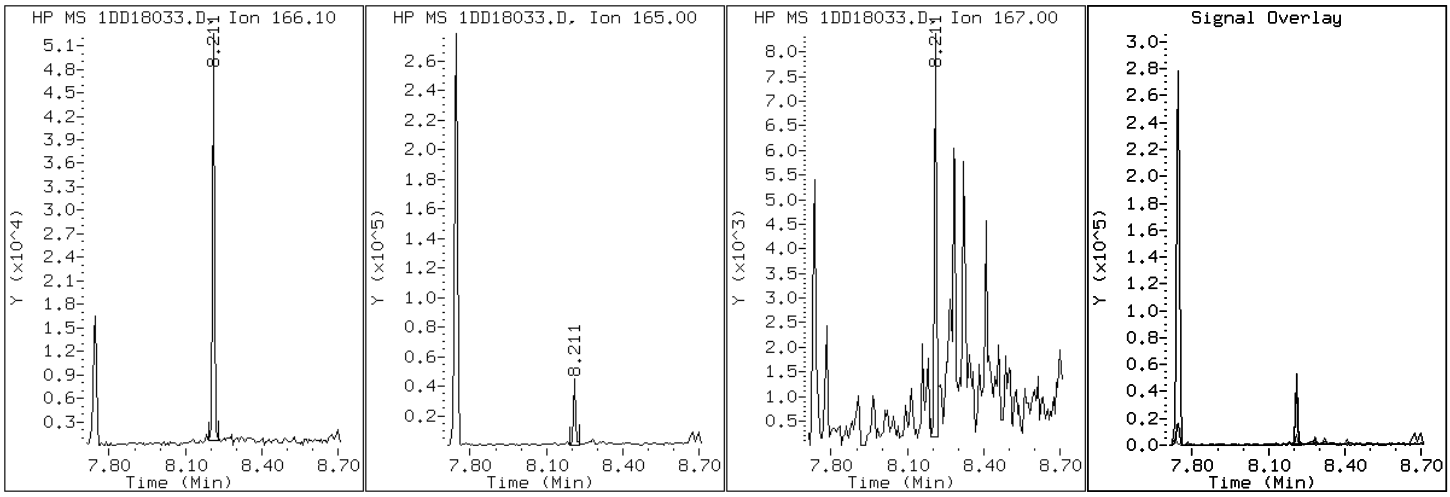
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

8 Fluorene



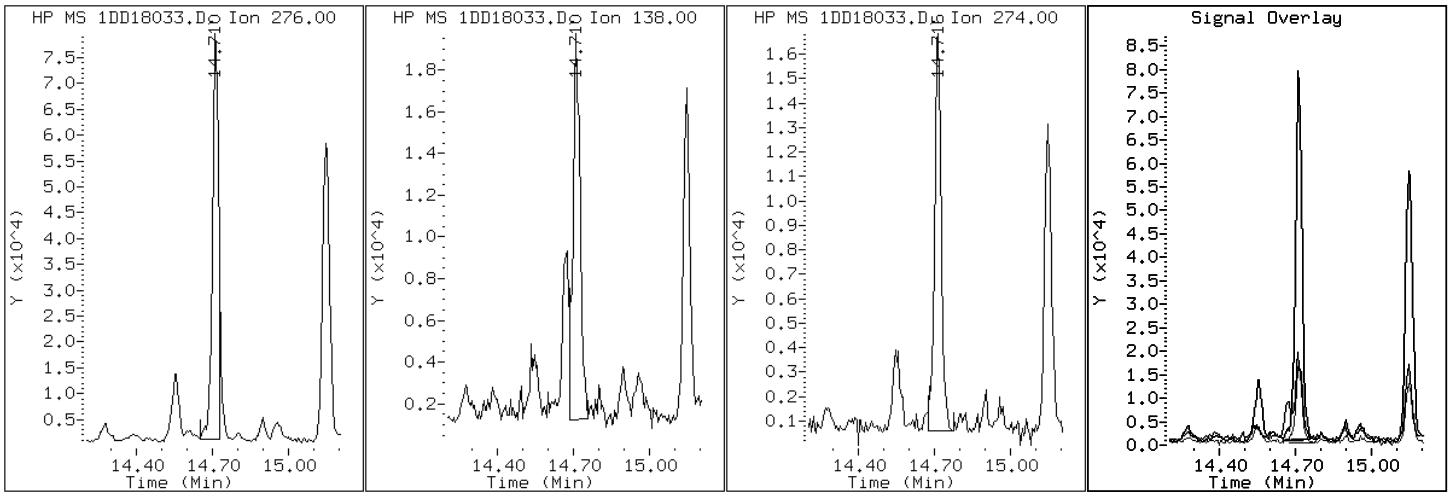
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

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



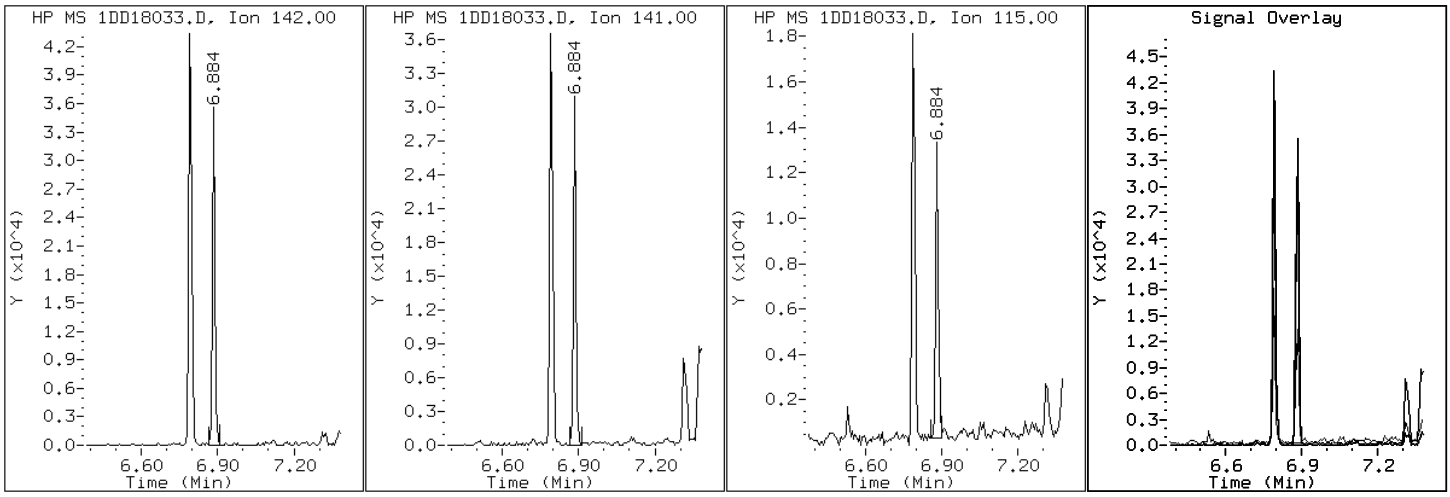
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

4 1-Methylnaphthalene



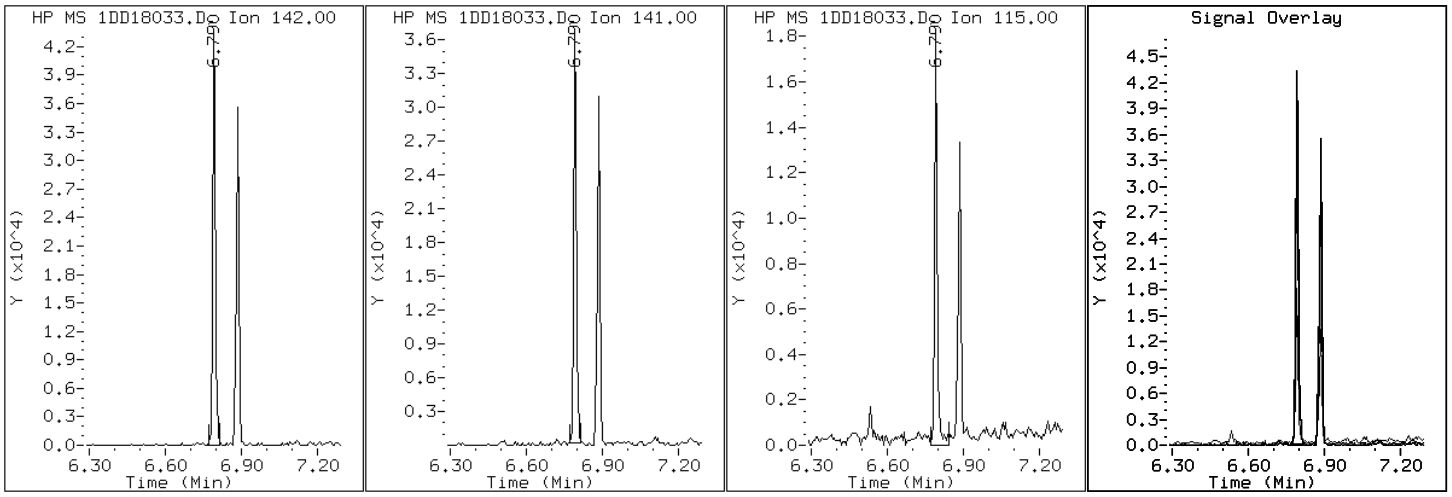
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

3 2-Methylnaphthalene



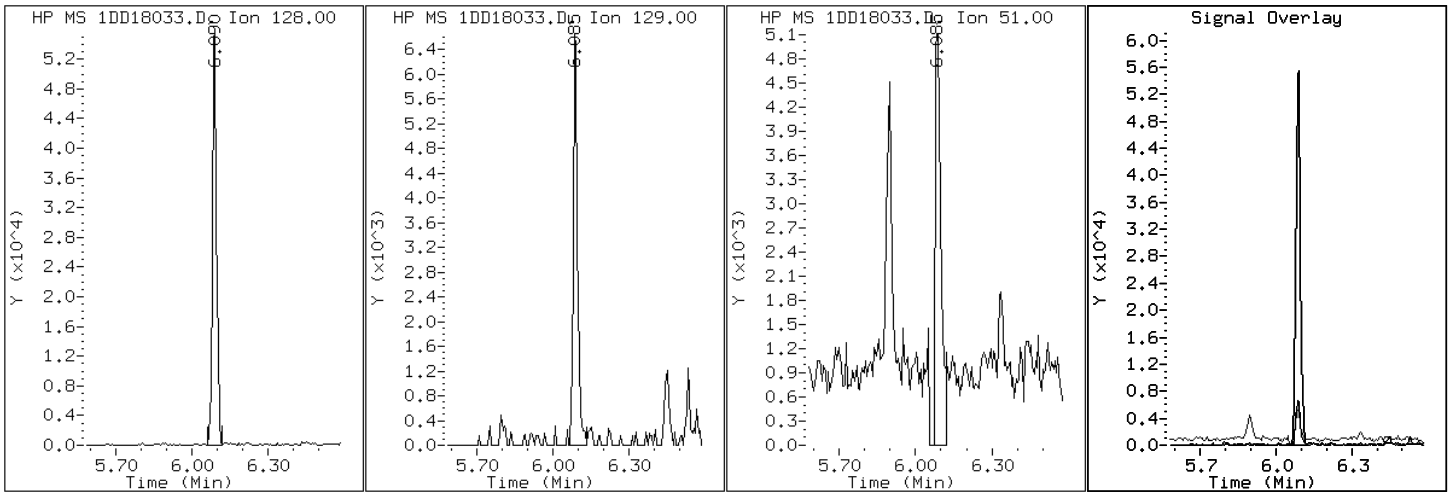
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

2 Naphthalene



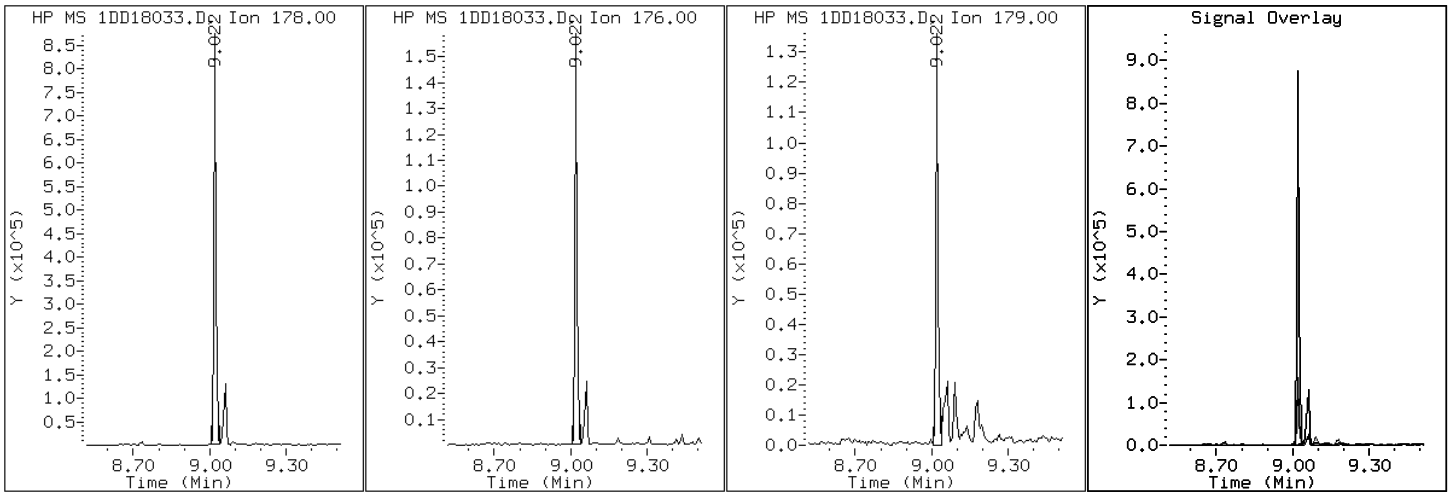
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

10 Phenanthrene



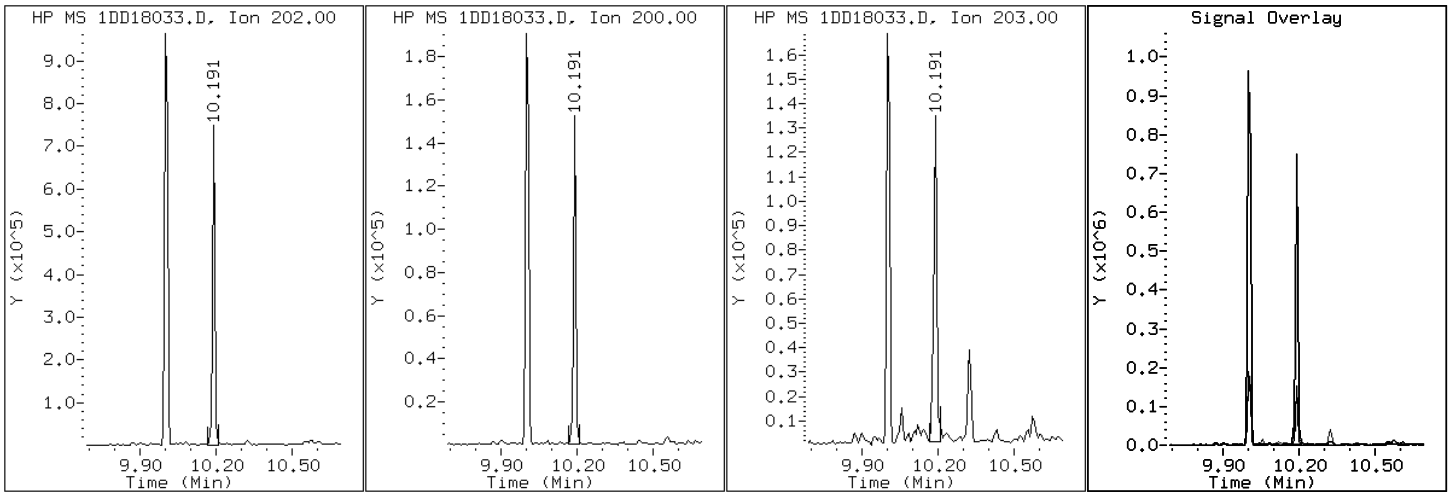
Data File: 1DD18033.D

Date: 19-APR-2013 00:27

Client ID: CV1160A-CSD Instrument: BSMSD.i

Sample Info: 680-89220-A-19-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD18033.D
Inj. Date and Time: 19-APR-2013 00:27
Instrument ID: BSMSD.i
Client ID: CV1160A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

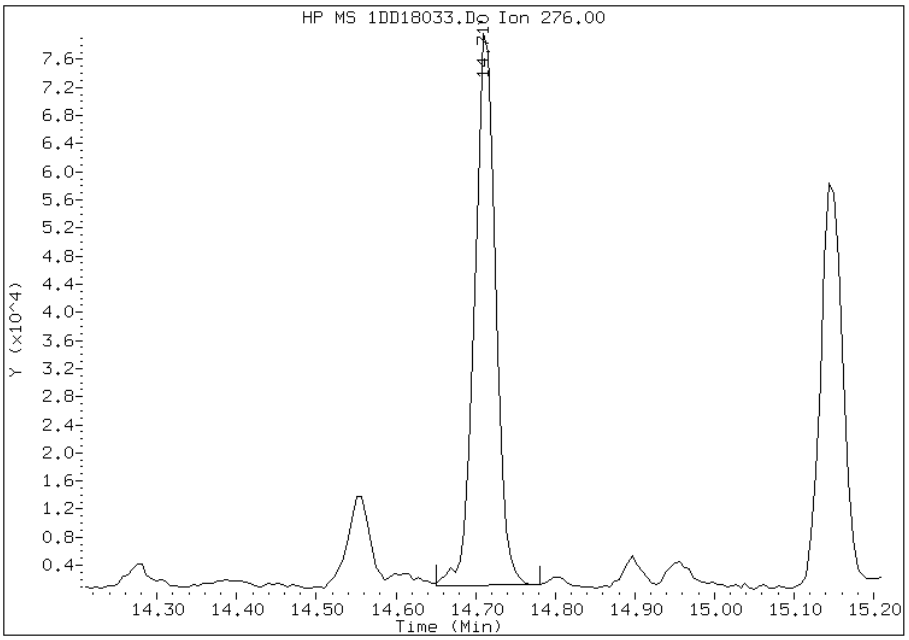
Processing Integration Results

RT: 14.71

Response: 143774

Amount: 2

Conc: 796



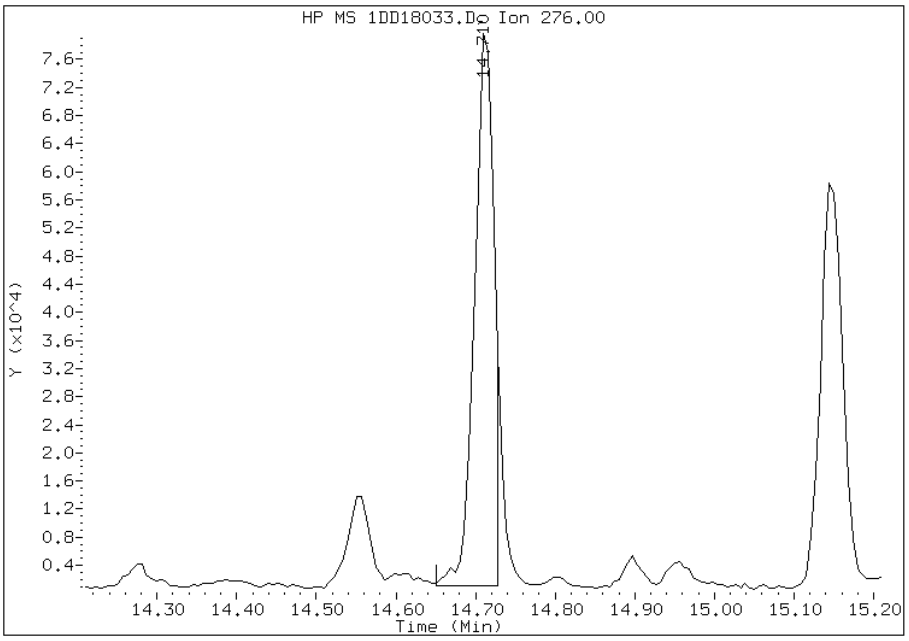
Manual Integration Results

RT: 14.71

Response: 132719

Amount: 2

Conc: 735



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: FM0062A-CS | Lab Sample ID: 680-89220-20

Matrix: Solid | Lab File ID: 1DD18034.D

Analysis Method: 8270C LL | Date Collected: 04/09/2013 10:20

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 14.83(g) | Date Analyzed: 04/19/2013 00:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	240		220	27
120-12-7	Anthracene	360		46	23
56-55-3	Benzo[a]anthracene	1500		44	21
50-32-8	Benzo[a]pyrene	1600		57	28
205-99-2	Benzo[b]fluoranthene	2900		66	33
191-24-2	Benzo[g,h,i]perylene	750		110	24
207-08-9	Benzo[k]fluoranthene	1000		44	20
218-01-9	Chrysene	1600		49	25
53-70-3	Dibenz(a,h)anthracene	300		110	22
206-44-0	Fluoranthene	2700		110	22
86-73-7	Fluorene	78	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	760		110	39
90-12-0	1-Methylnaphthalene	72	J	220	24
91-57-6	2-Methylnaphthalene	130	J	220	39
91-20-3	Naphthalene	420		220	24
85-01-8	Phenanthrene	890		44	21
129-00-0	Pyrene	2000		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	84		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18034.D
Lab Smp Id: 680-89220-A-20-A Client Smp ID: FM0062A-CS
Inj Date : 19-APR-2013 00:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89220-A-20-A
Misc Info : 680-89220-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.830	Weight Extracted
M	25.702	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.069	6.062	(1.000)	2781106	40.0000	
* 6	Acenaphthene-d10	164	7.743	7.742	(1.000)	1778682	40.0000	
* 9	Phenanthrene-d10	188	9.006	8.999	(1.000)	2982588	40.0000	
$ 13	o-Terphenyl	230	9.306	9.311	(1.033)	94547	2.10386	760
* 17	Chrysene-d12	240	11.315	11.314	(1.000)	3059640	40.0000	
* 22	Perylene-d12	264	13.143	13.130	(1.000)	2504249	40.0000	
2	Naphthalene	128	6.086	6.085	(1.003)	80118	1.15902	420
3	2-Methylnaphthalene	142	6.791	6.790	(1.119)	15785	0.35374	130
4	1-Methylnaphthalene	142	6.885	6.884	(1.135)	8316	0.19734	72
5	Acenaphthylene	152	7.614	7.613	(0.983)	49622	0.65915	240
7	Acenaphthene	154	7.767	7.766	(1.003)	7835	0.16861	61
8	Fluorene	166	8.207	8.212	(1.060)	11791	0.21427	78
10	Phenanthrene	178	9.018	9.017	(1.001)	200761	2.44370	890
11	Anthracene	178	9.059	9.058	(1.006)	80334	0.98520	360

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.200	9.199	(1.022)	25817	0.35895	130
14 Fluoranthene	202	10.005	10.004	(1.111)	626553	7.41124	2700
15 Pyrene	202	10.193	10.192	(0.901)	505736	5.50426	2000
16 Benzo(a)anthracene	228	11.298	11.291	(0.998)	363935	4.11411	1500
18 Chrysene	228	11.339	11.338	(1.002)	367051	4.42527	1600
19 Benzo(b)fluoranthene	252	12.596	12.583	(0.958)	494055	7.89771	2900
20 Benzo(k)fluoranthene	252	12.626	12.625	(0.961)	186064	2.82327	1000
21 Benzo(a)pyrene	252	13.037	13.036	(0.992)	282426	4.49330	1600
23 Indeno(1,2,3-cd)pyrene	276	14.711	14.704	(1.119)	140505	2.09640	760(M)
24 Dibenzo(a,h)anthracene	278	14.729	14.734	(1.121)	52700	0.83500	300
25 Benzo(g,h,i)perylene	276	15.140	15.145	(1.152)	133798	2.07333	750

QC Flag Legend

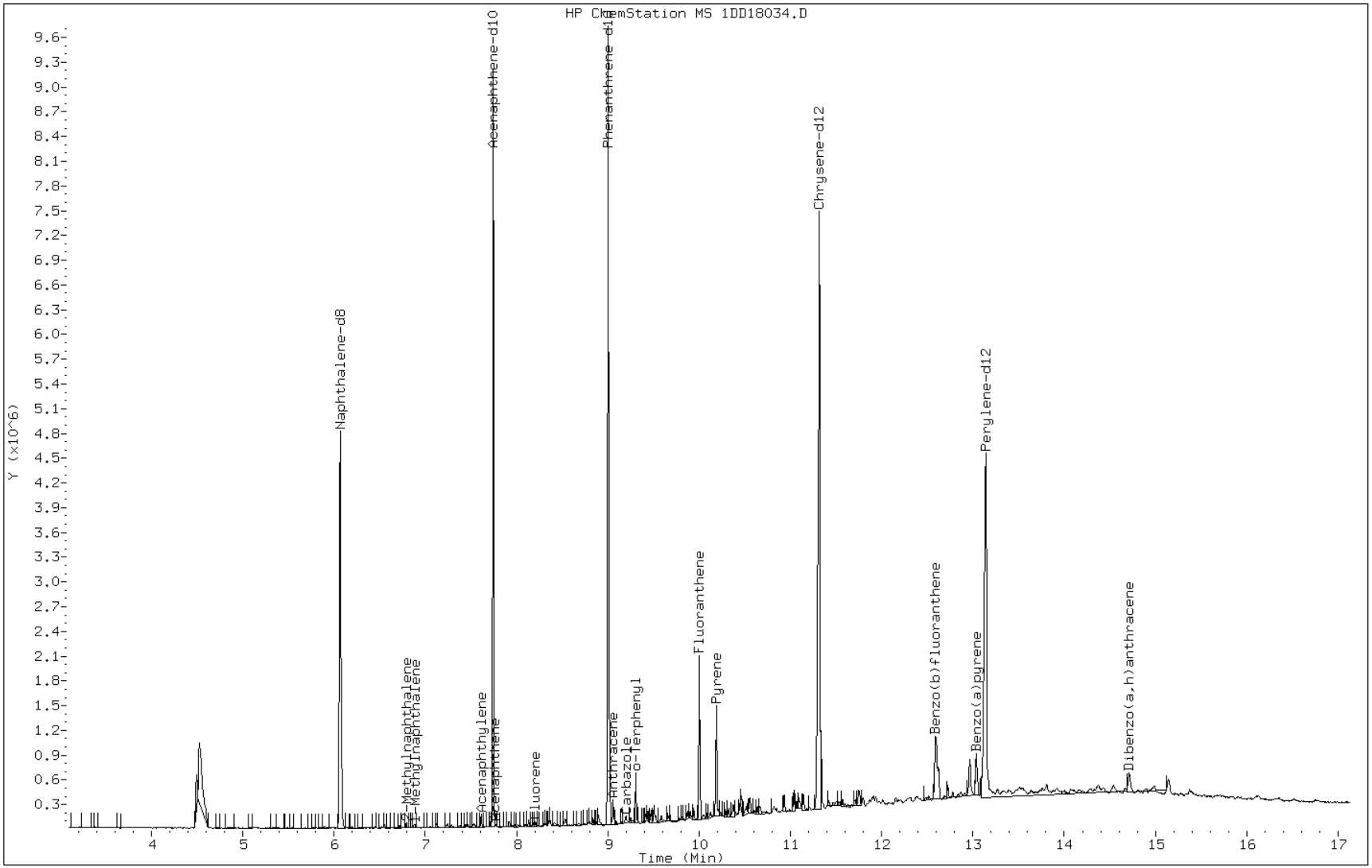
M - Compound response manually integrated.

Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC



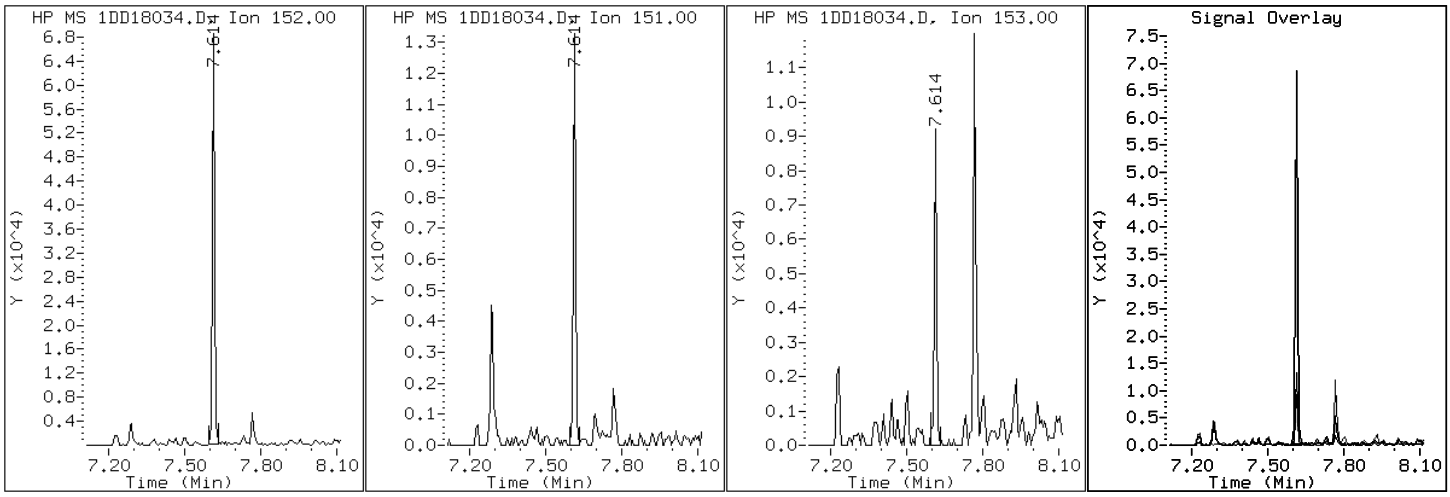
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

5 Acenaphthylene



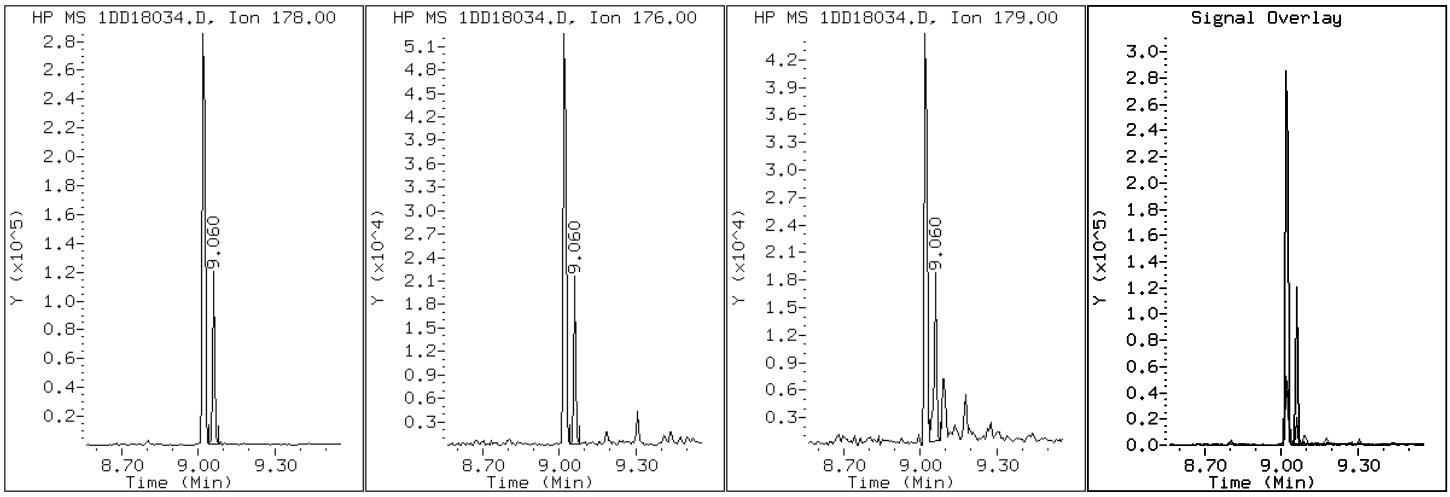
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

11 Anthracene



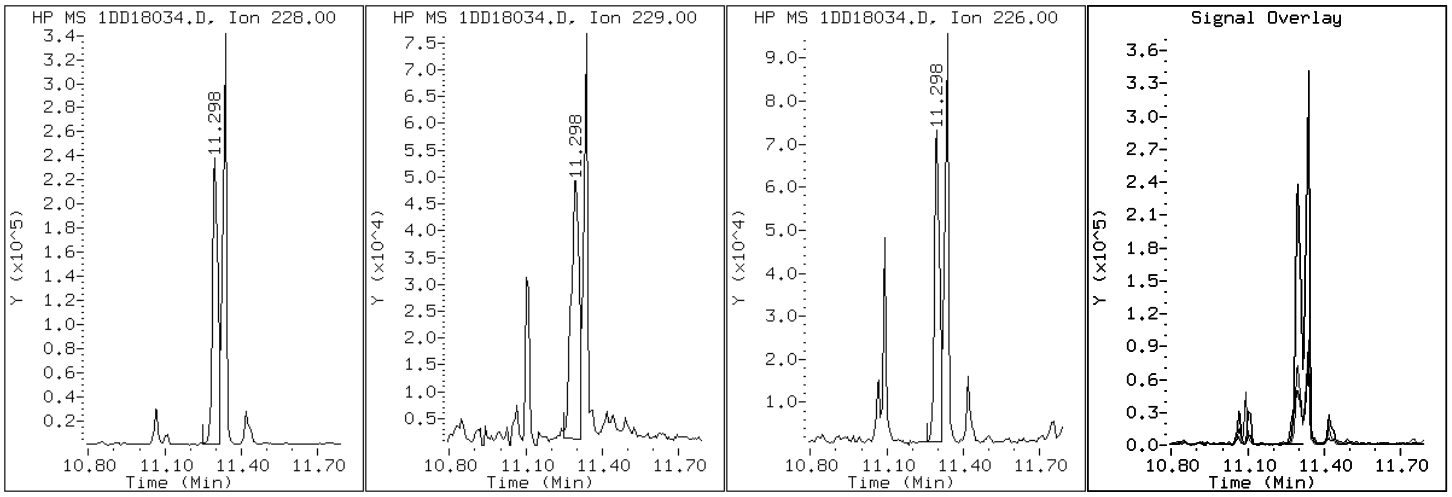
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

16 Benzo(a)anthracene



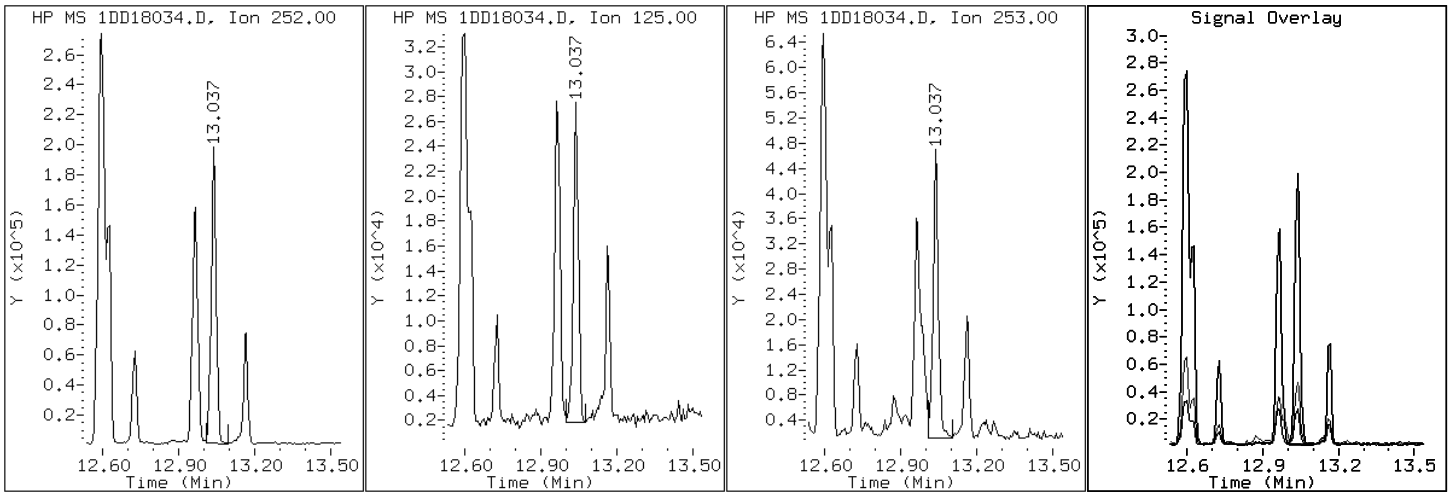
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

21 Benzo(a)pyrene



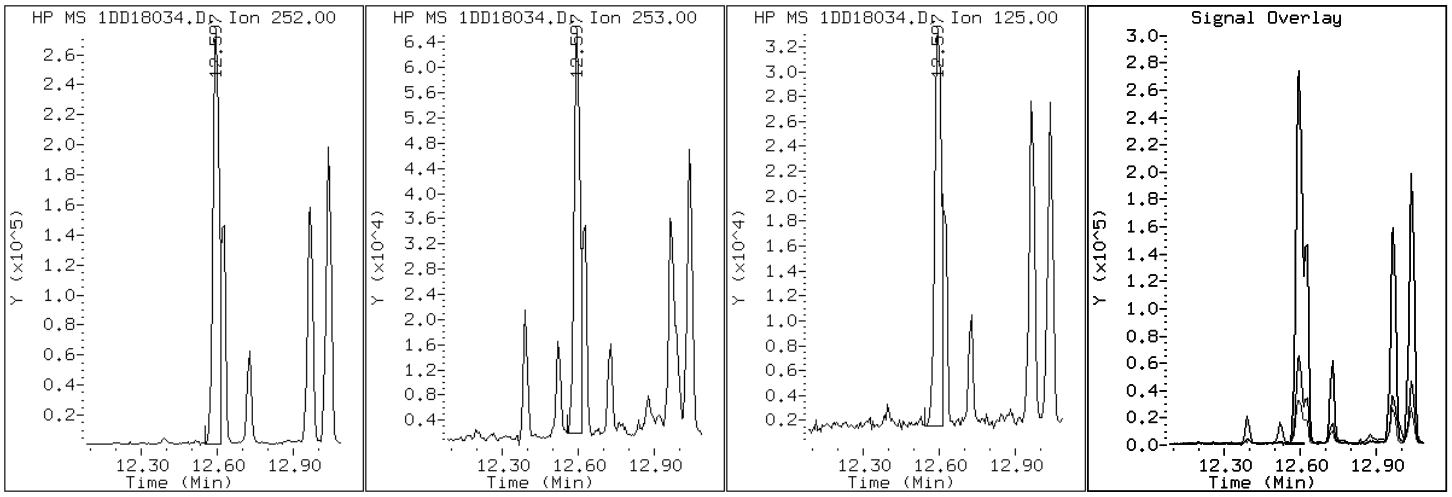
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

19 Benzo(b)fluoranthene



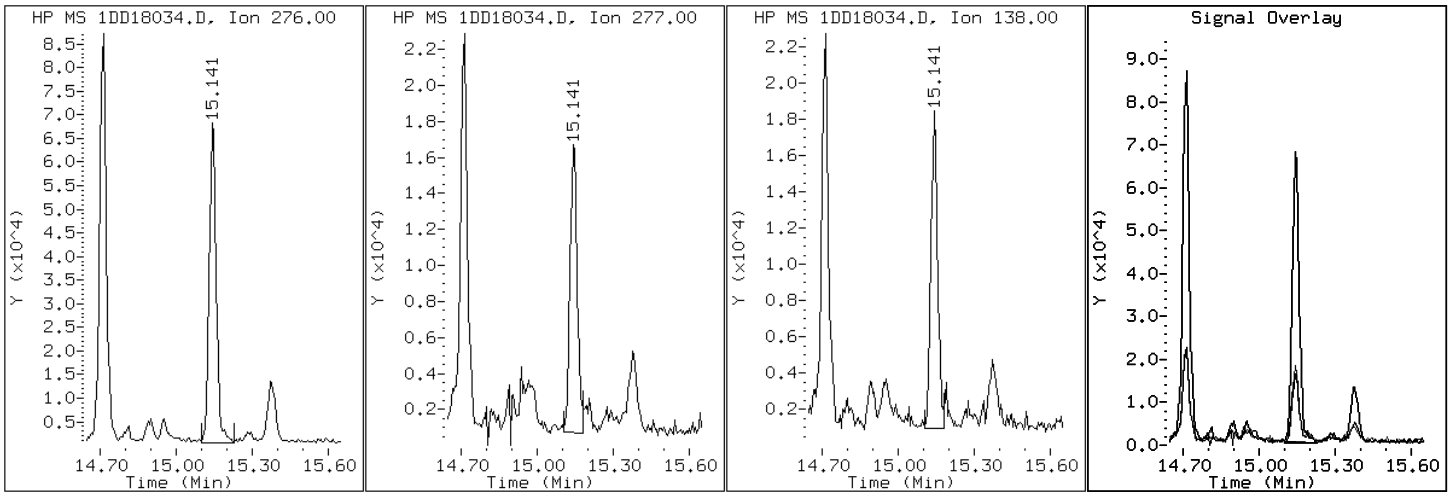
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

25 Benzo(g,h,i)perylene



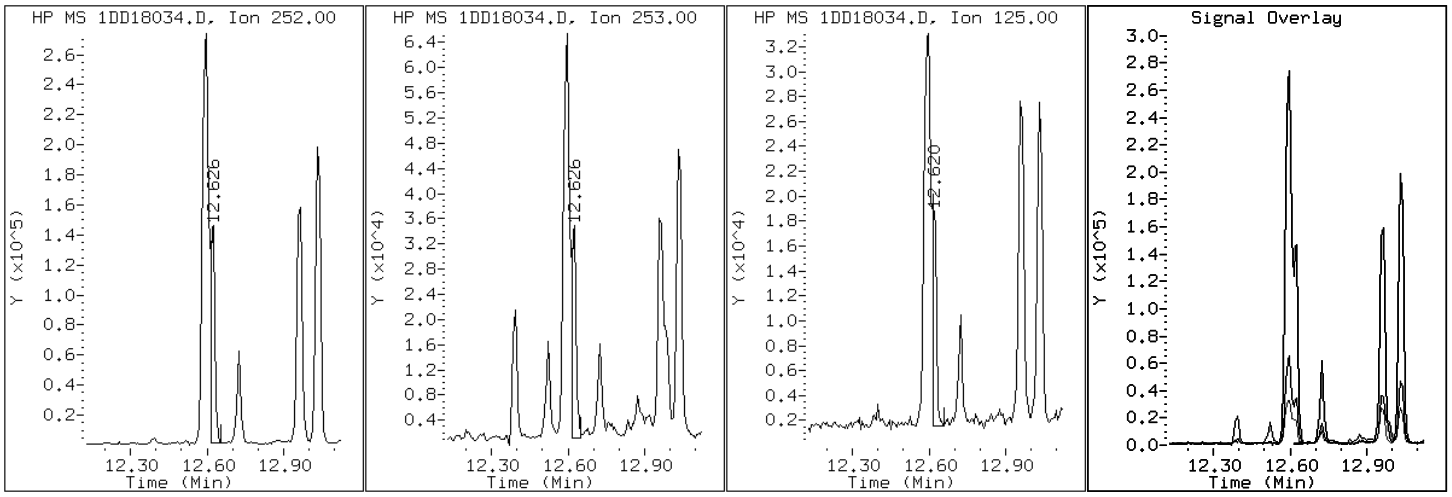
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

20 Benzo(k)fluoranthene



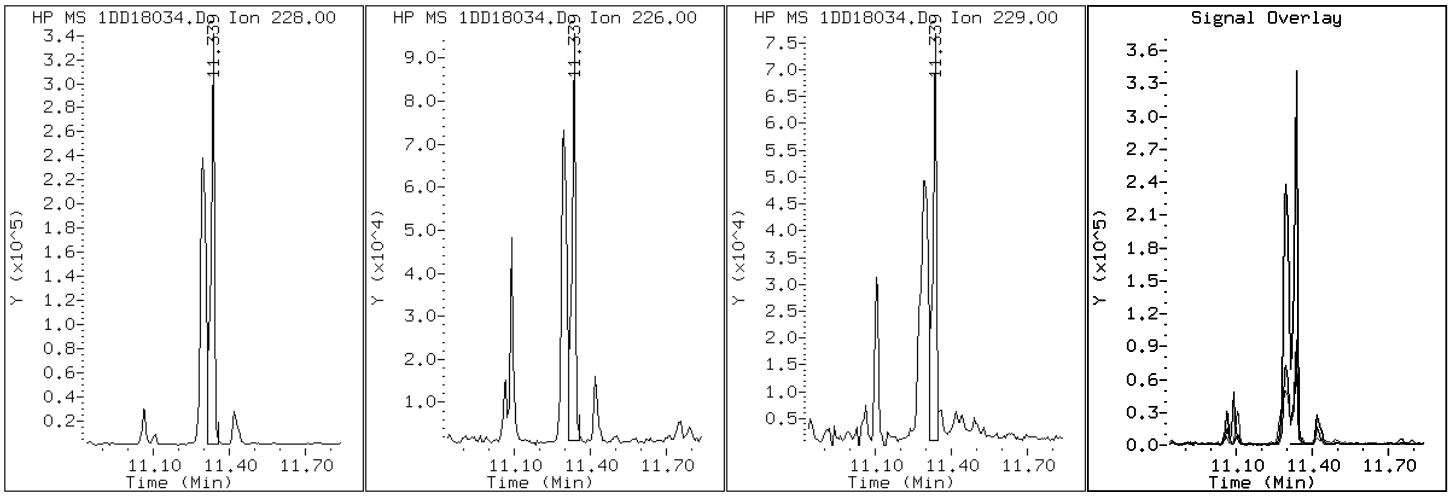
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

18 Chrysene



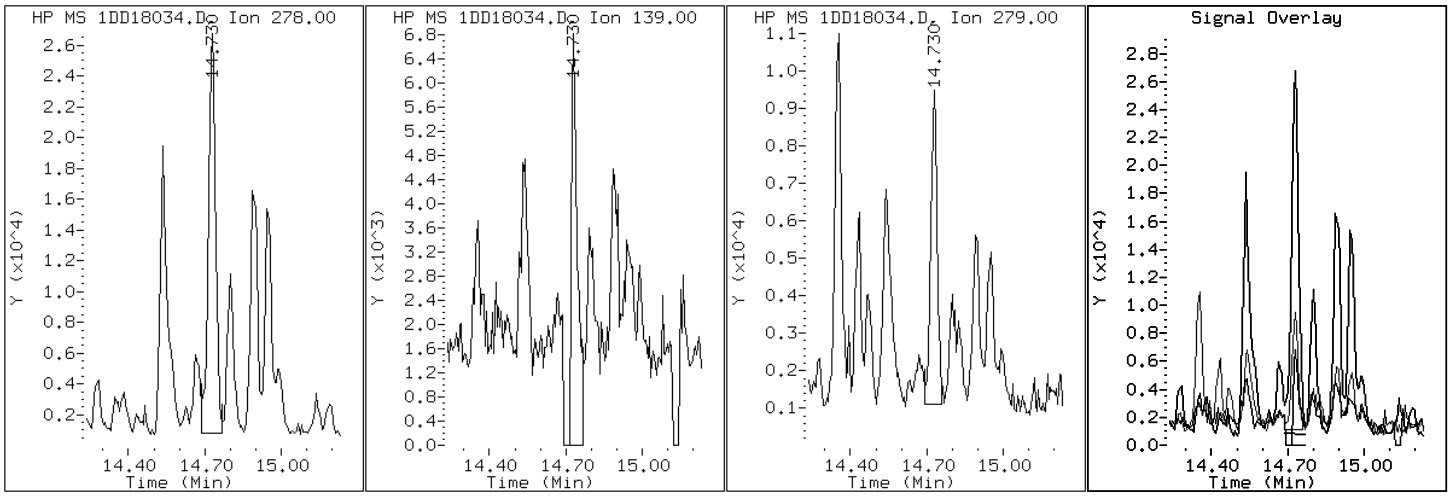
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

24 Dibenzo(a,h)anthracene



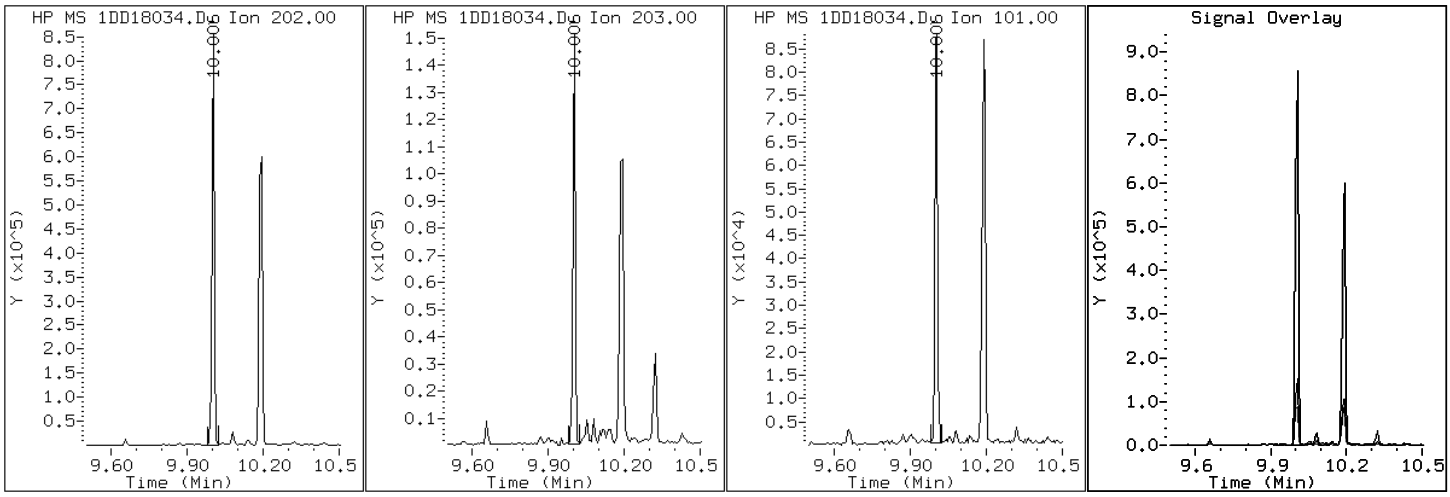
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

14 Fluoranthene



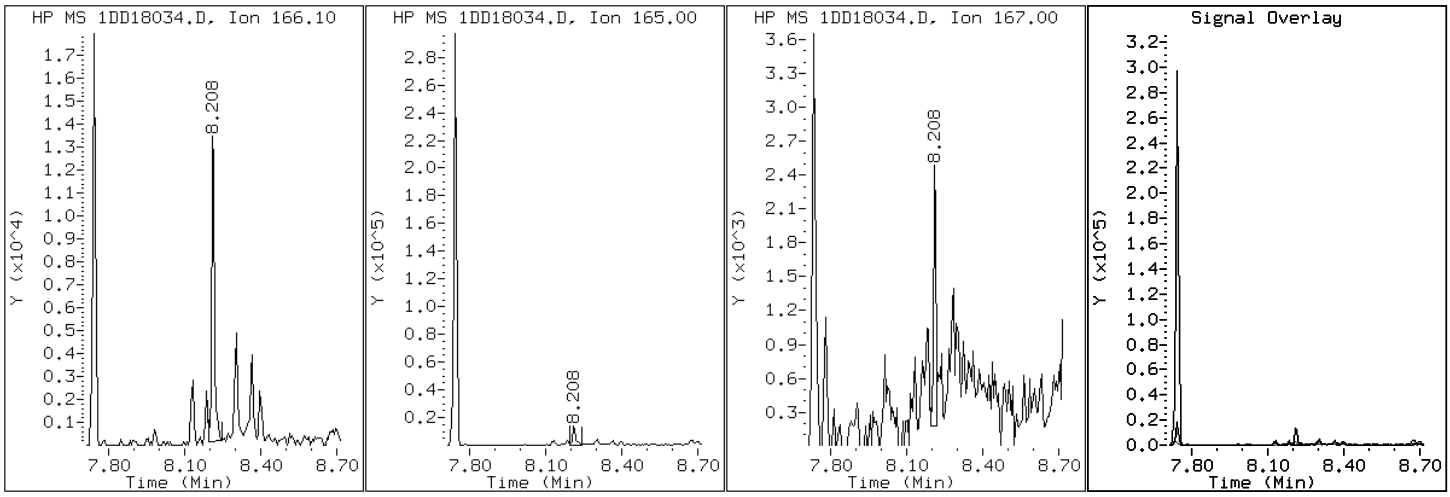
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

8 Fluorene



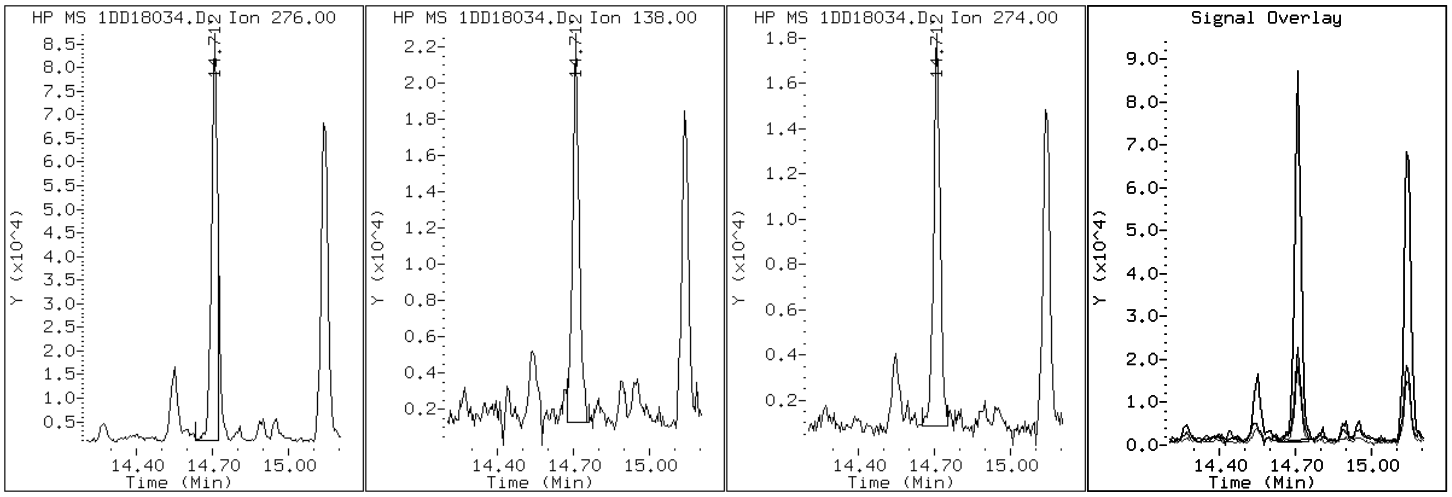
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

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



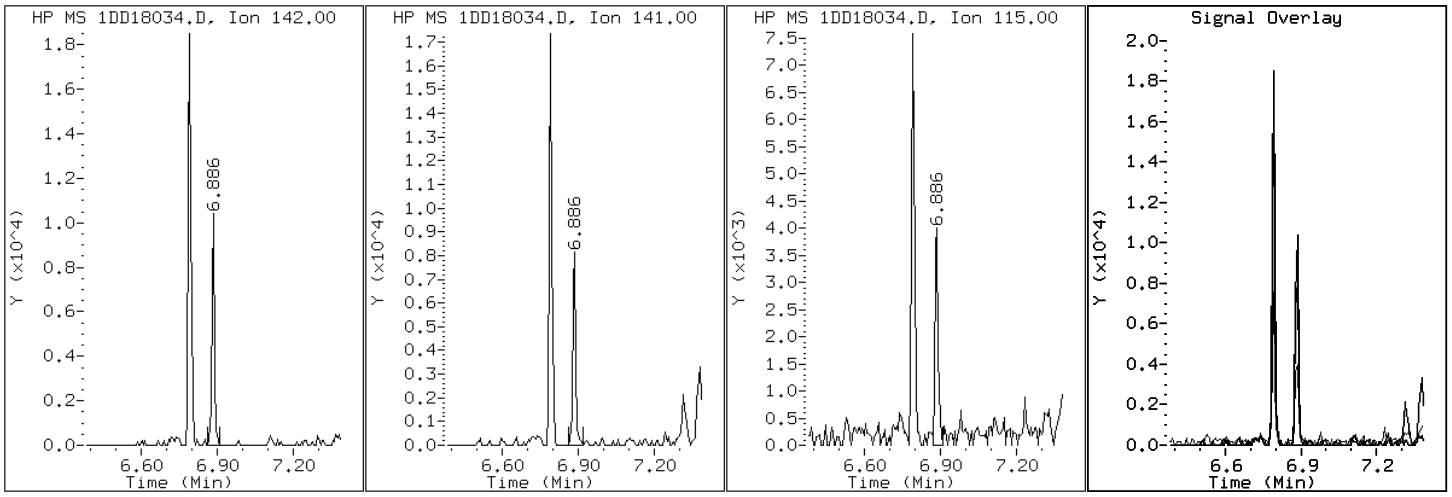
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

4 1-Methylnaphthalene



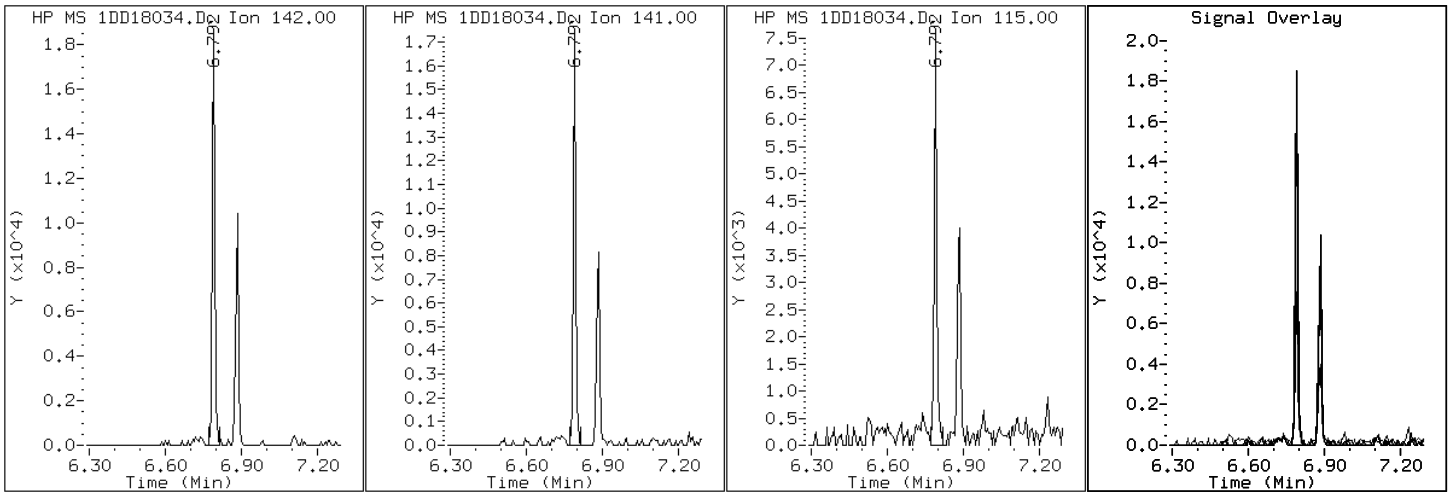
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

3 2-Methylnaphthalene



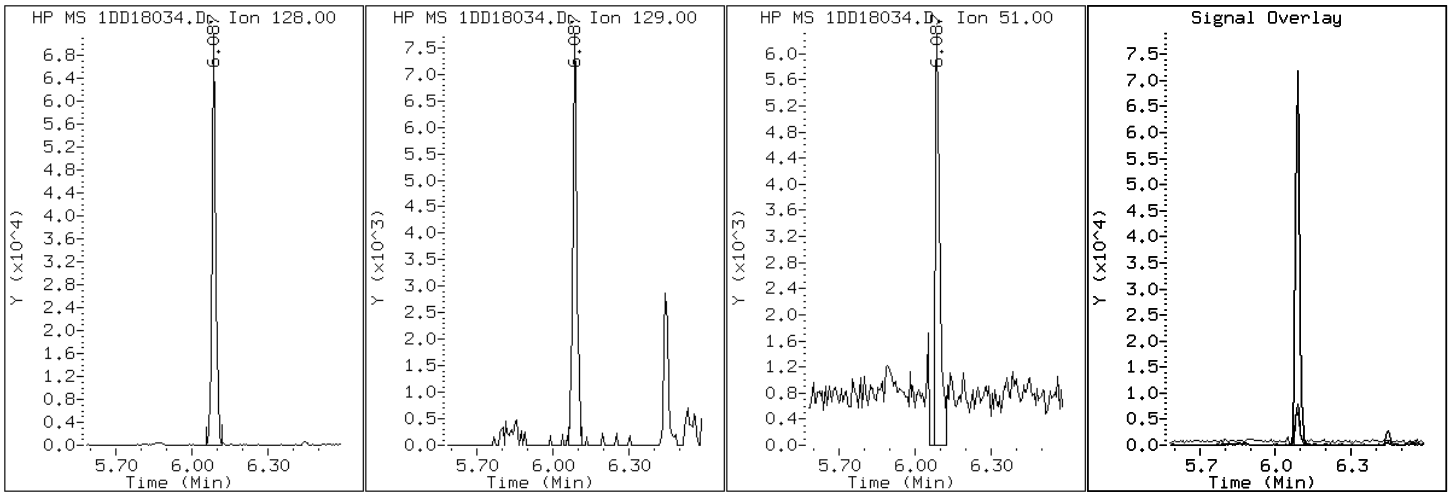
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

2 Naphthalene



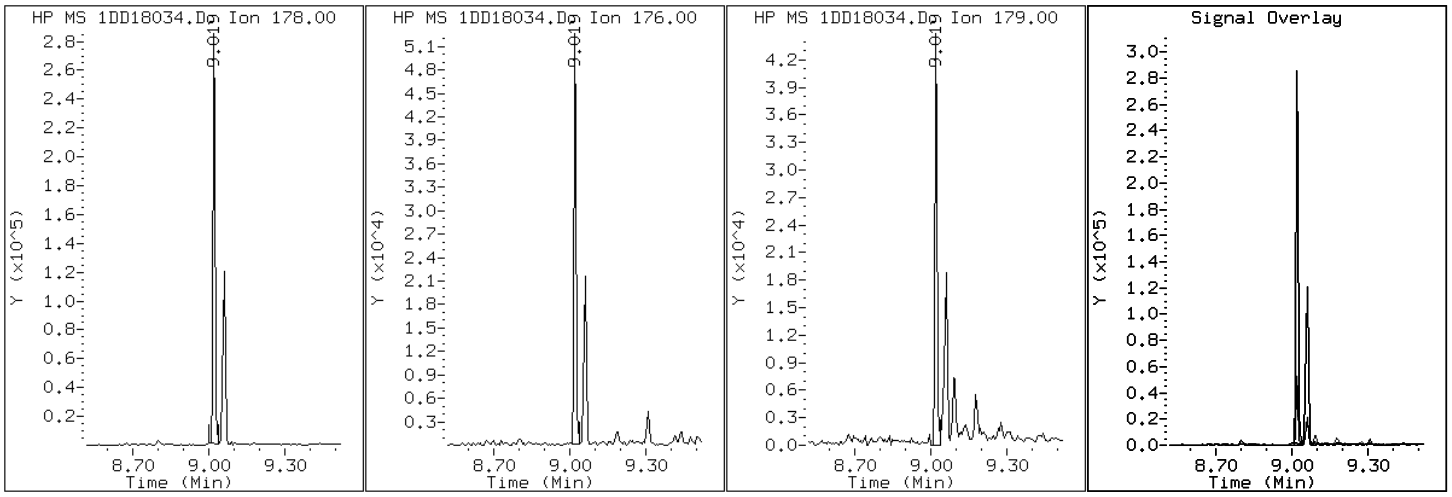
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

10 Phenanthrene



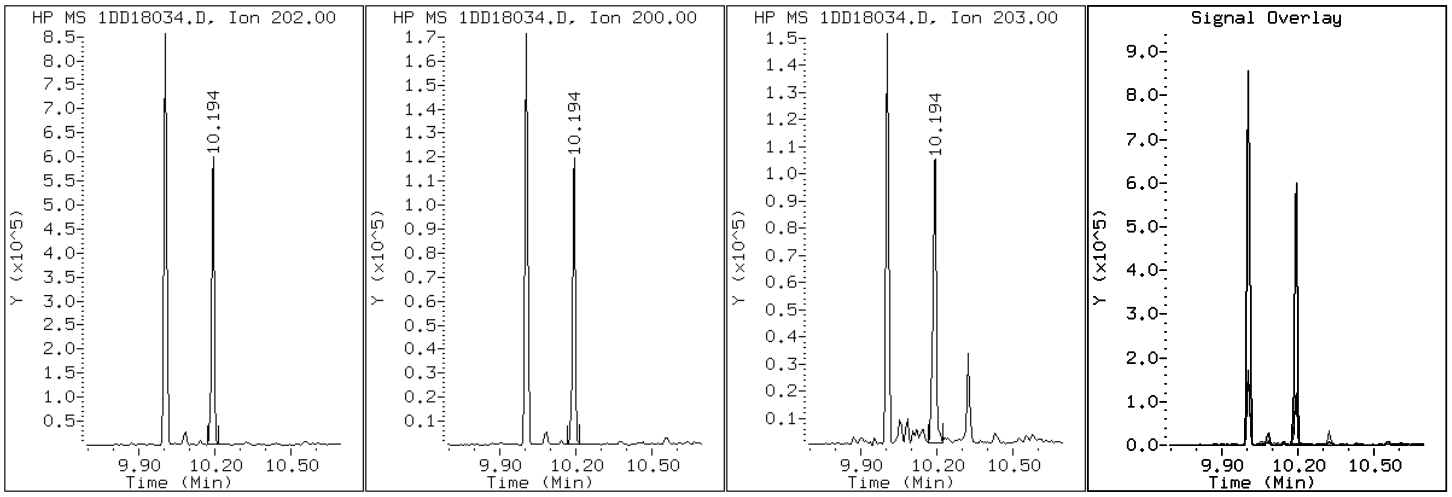
Data File: 1DD18034.D

Date: 19-APR-2013 00:49

Client ID: FM0062A-CS Instrument: BSMSD.i

Sample Info: 680-89220-A-20-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD18034.D
Inj. Date and Time: 19-APR-2013 00:49
Instrument ID: BSMSD.i
Client ID: FM0062A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

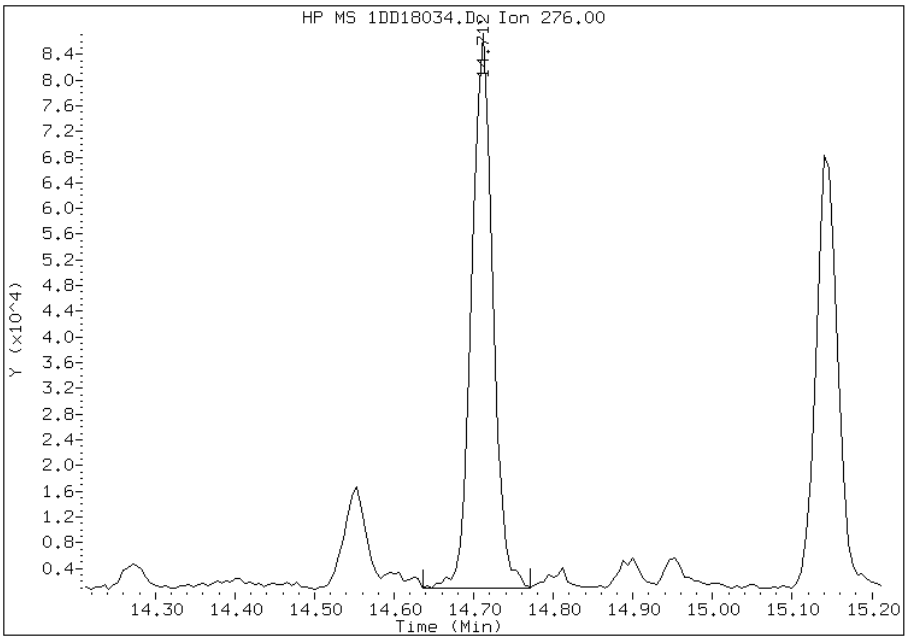
Processing Integration Results

RT: 14.71

Response: 158497

Amount: 2

Conc: 859



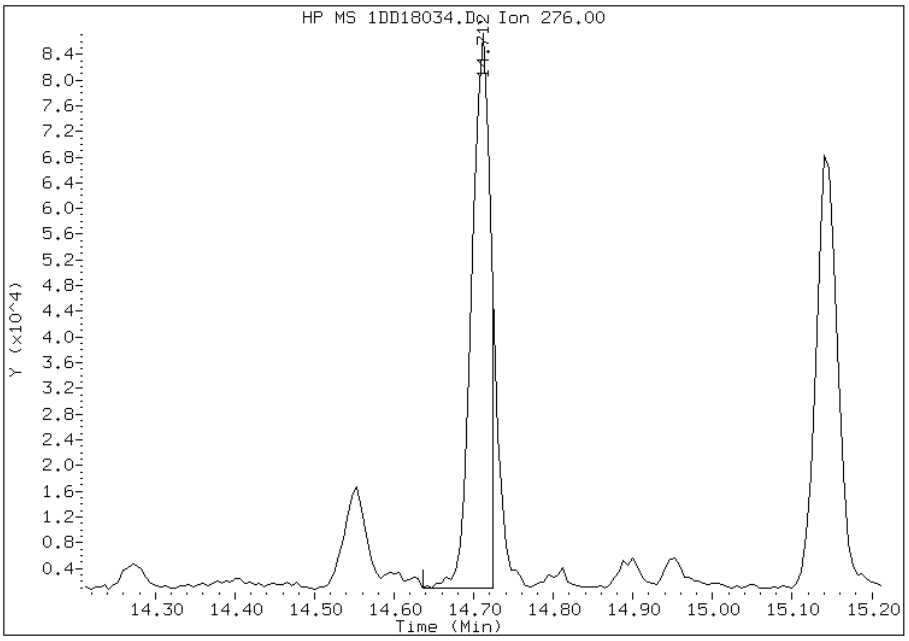
Manual Integration Results

RT: 14.71

Response: 140505

Amount: 2

Conc: 761



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:38
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89220-1 Analy Batch No.: 136164

SDG No.: 68089220-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave		0.9942			0.0000	4.3		15.0			
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave		0.6418			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave		0.6061			0.0000	5.5		15.0			
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave		1.6930			0.0000	9.3		15.0			
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave		1.0450			0.0000	4.6		15.0			
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave		1.2375			0.0000	5.5		15.0			
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave		1.1018			0.0000	4.5		15.0			
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave		1.0936			0.0000	7.6		15.0			
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave		0.9646			0.0000	6.7		15.0			
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave		1.1338			0.0000	6.1		15.0			
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave		1.2012			0.0000	5.0		15.0			
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave		1.1565			0.0000	14.1		15.0			
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave		1.0844			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave		0.9992			0.0000	4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89220-1 Analy Batch No.: 136164

SDG No.: 68089220-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89220-1 Analy Batch No.: 136164

SDG No.: 68089220-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89220-1 Analy Batch No.: 136164

SDG No.: 68089220-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
Lab Smp Id: IC-1531396
Inj Date : 04-APR-2013 13:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
*	6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
*	9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
$	13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
*	17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
*	22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
	2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
	3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
	4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
	5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
	7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
	8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
	10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
	11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
	12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
	14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
	15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
	16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
	18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
	19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
	20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
	21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
	23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
	24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
	25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

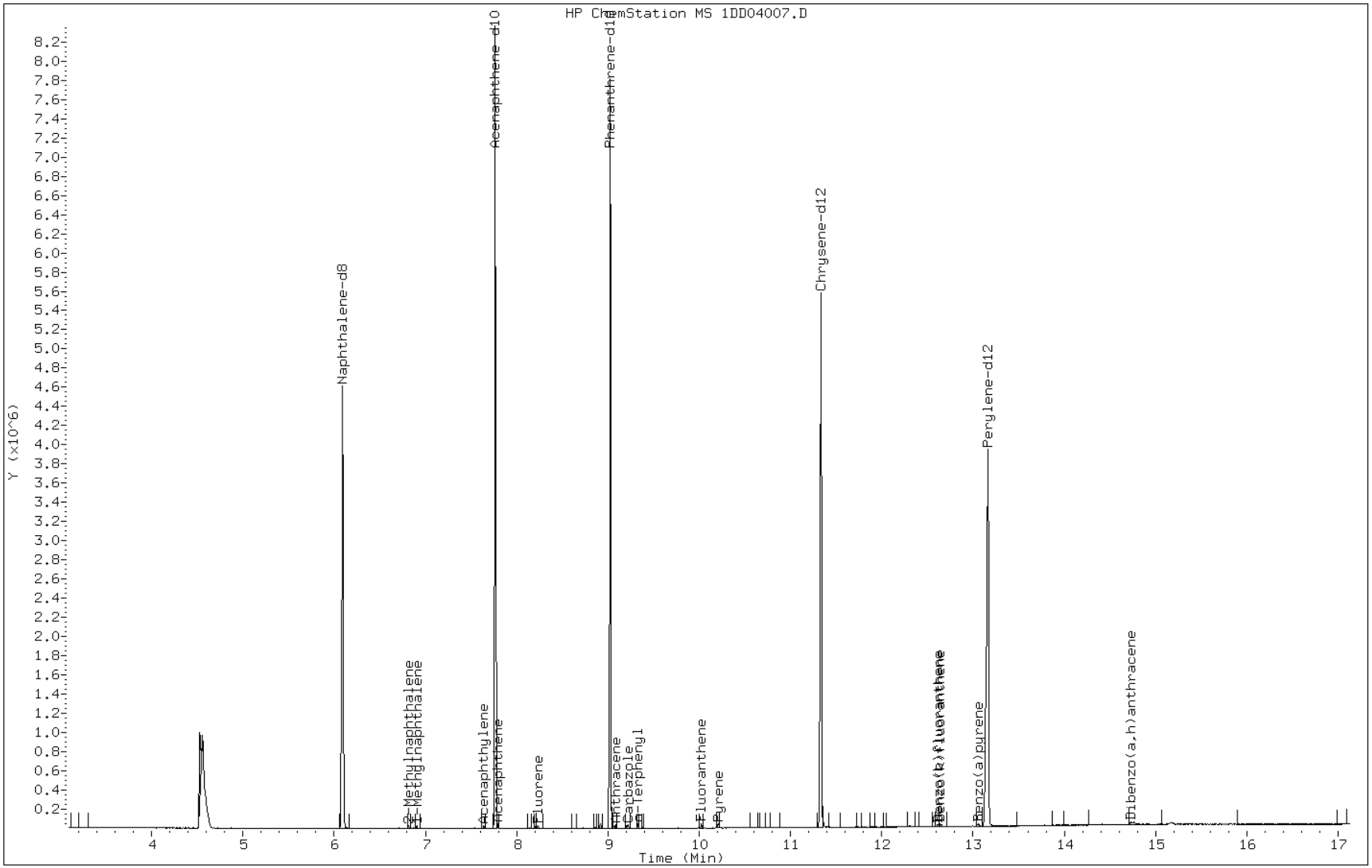
M - Compound response manually integrated.

Data File: 1DD04007.D

Date: 04-APR-2013 13:49

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

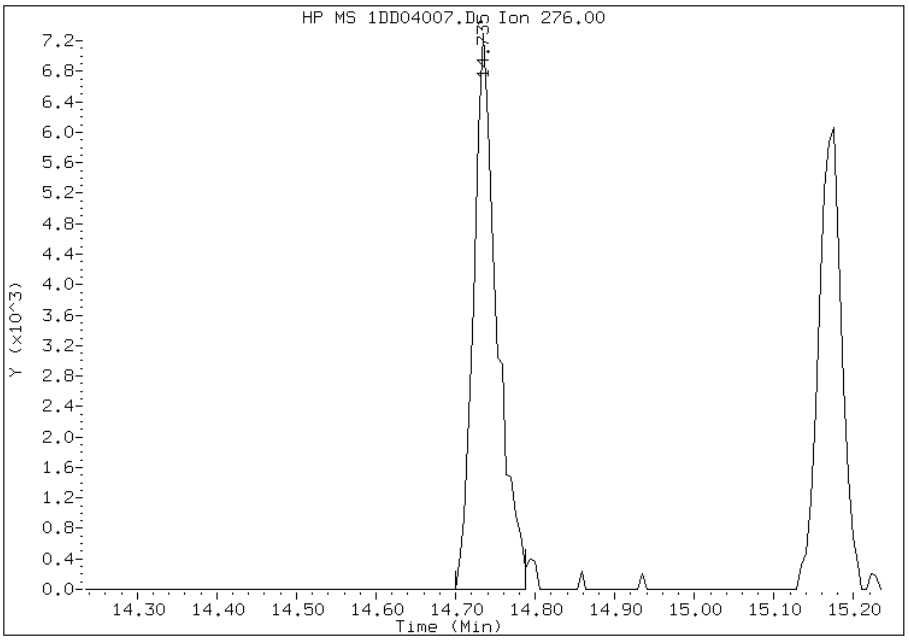
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



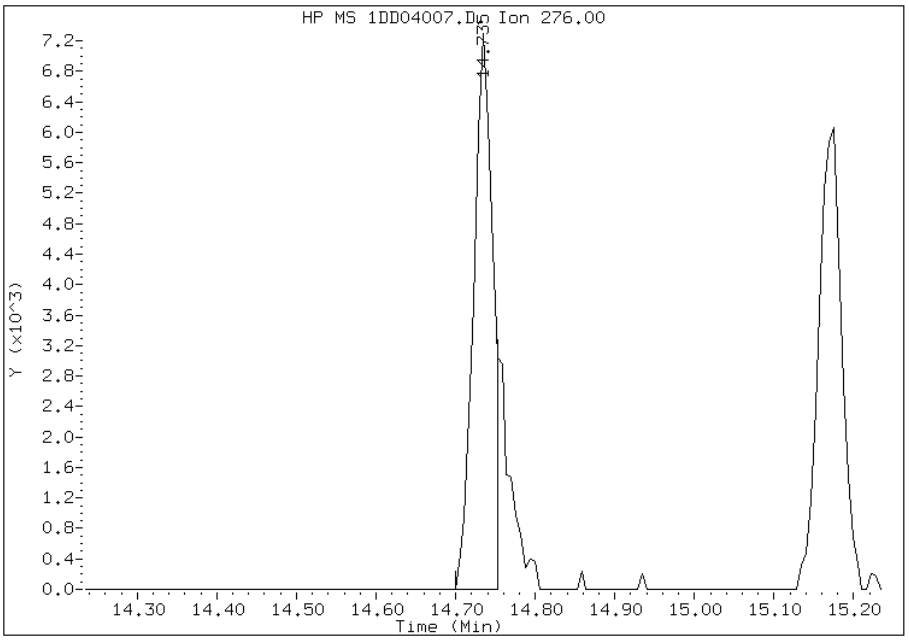
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

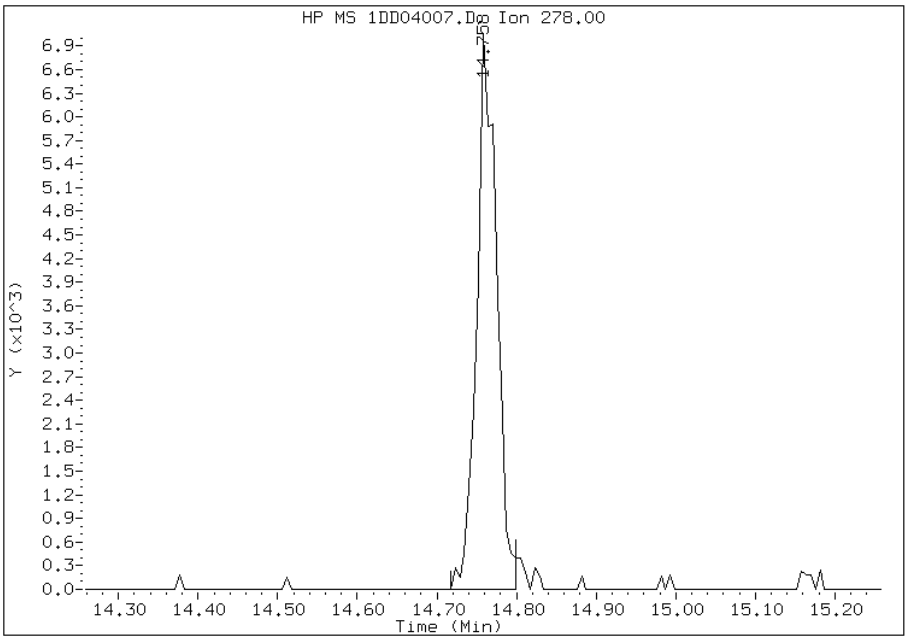
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



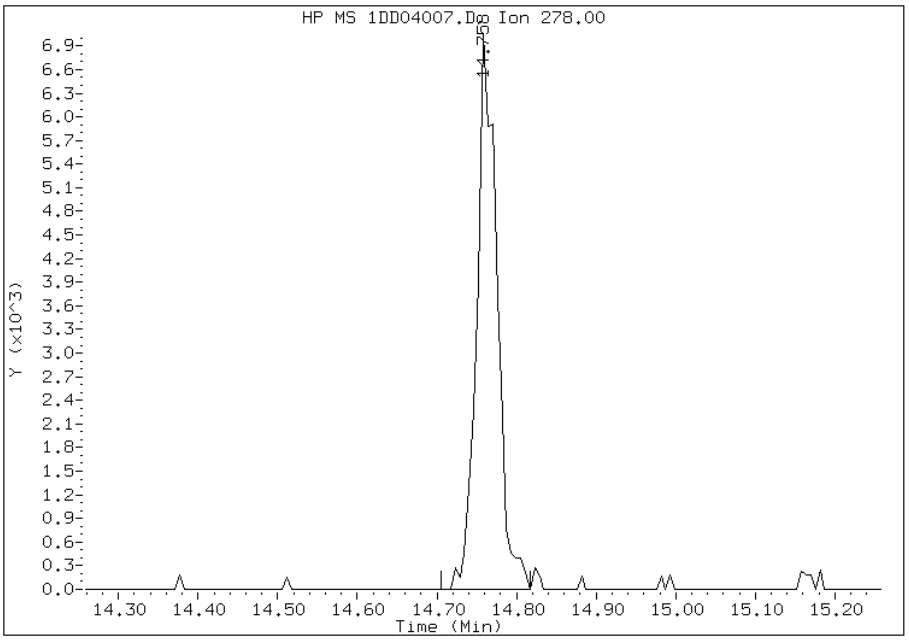
Manual Integration Results

RT: 14.76

Response: 12466

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

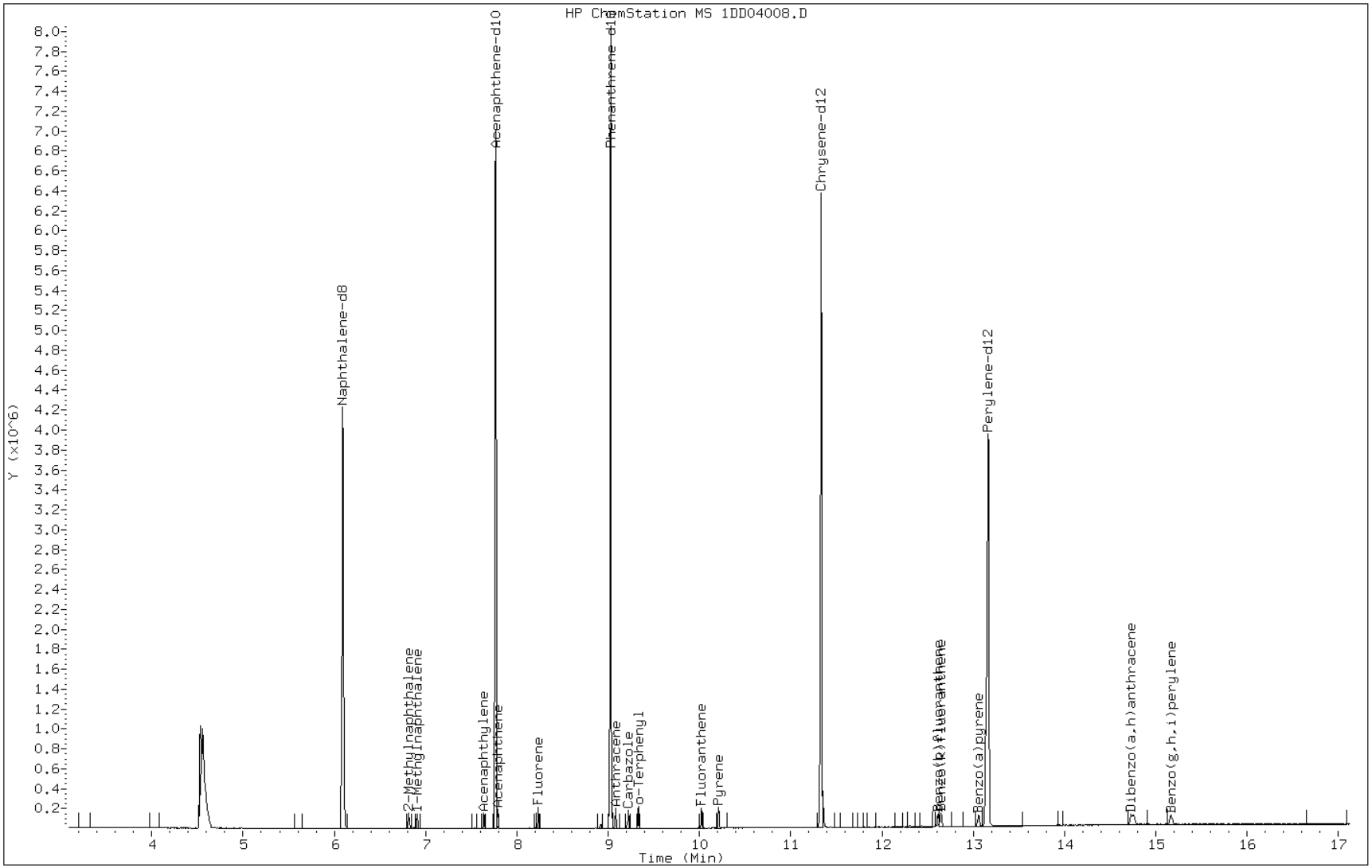
M - Compound response manually integrated.

Data File: 1DD04008.D

Date: 04-APR-2013 14:11

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

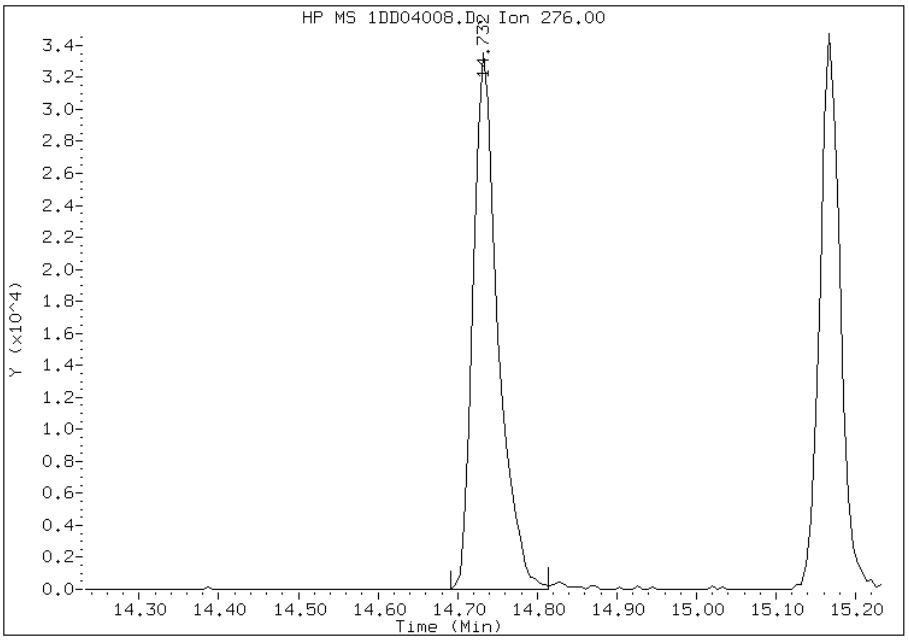
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



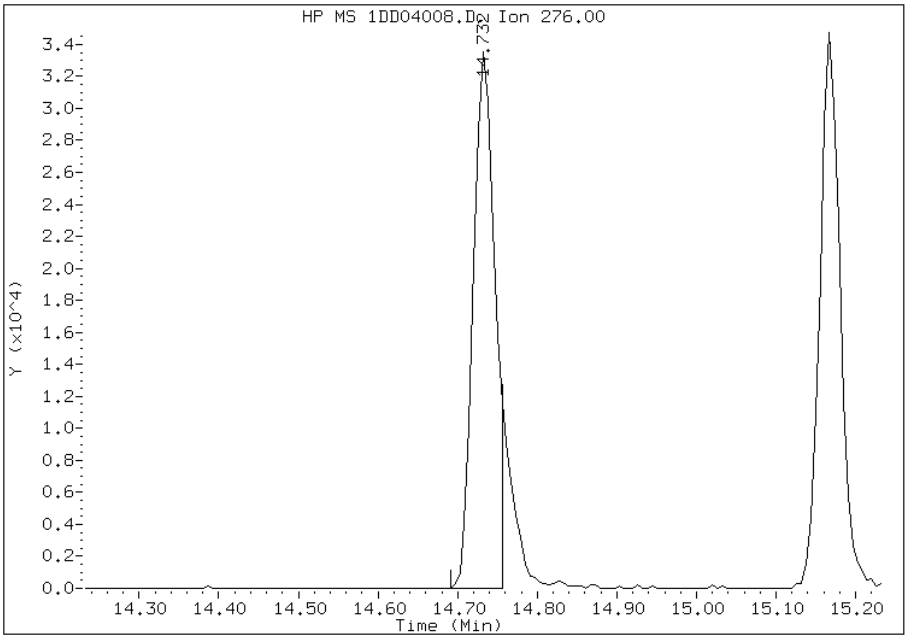
Manual Integration Results

RT: 14.73

Response: 62840

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

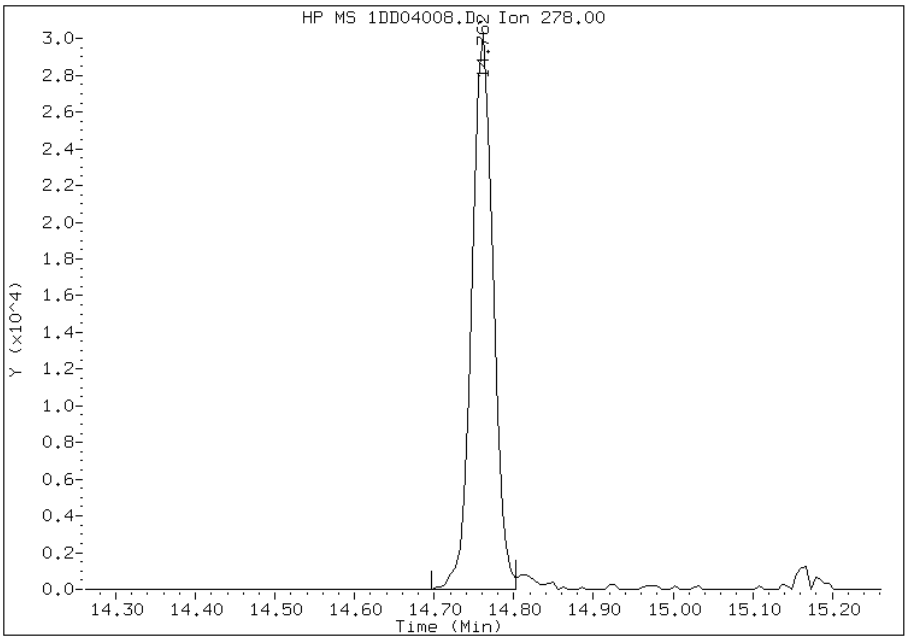
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



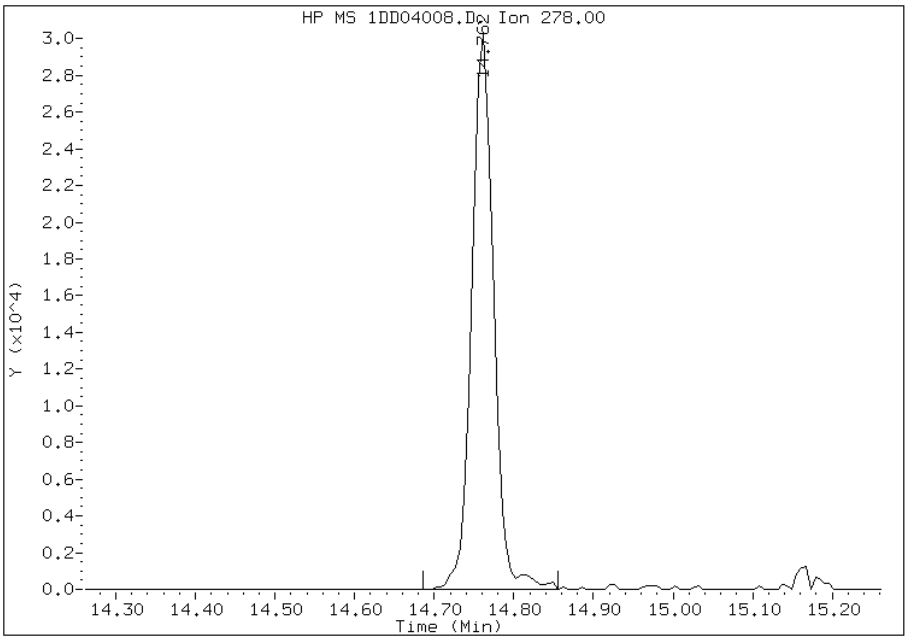
Manual Integration Results

RT: 14.76

Response: 57541

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
Lab Smp Id: IC-1531399
Inj Date : 04-APR-2013 14:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
*	6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
*	9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
$	13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
*	17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
*	22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
	2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
	3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
	4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
	5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
	7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
	8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
	10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
	11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
	12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
	14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
	15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
	16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
	18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
	19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
	20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
	21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
	23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
	24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
	25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

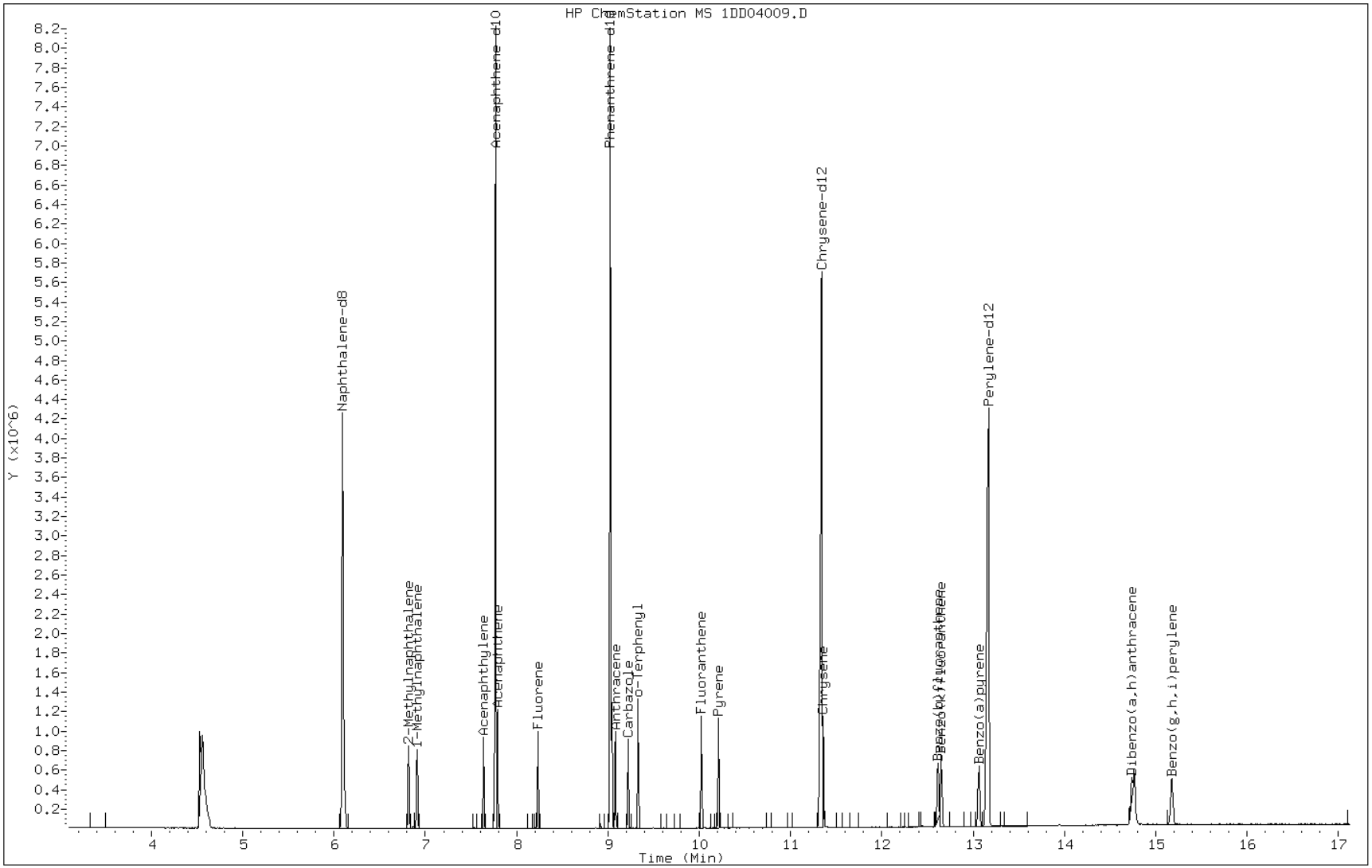
M - Compound response manually integrated.

Data File: 1DD04009.D

Date: 04-APR-2013 14:34

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

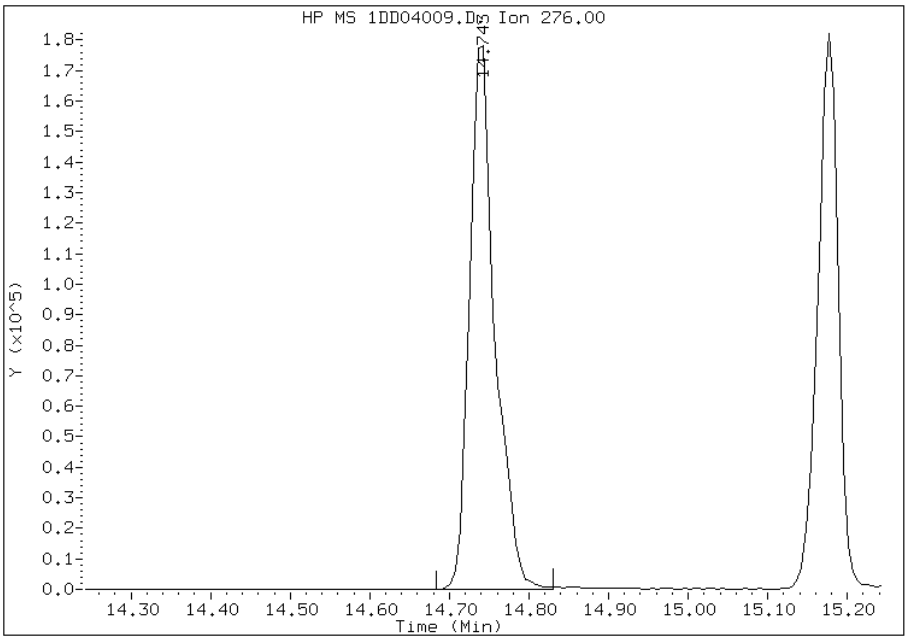
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



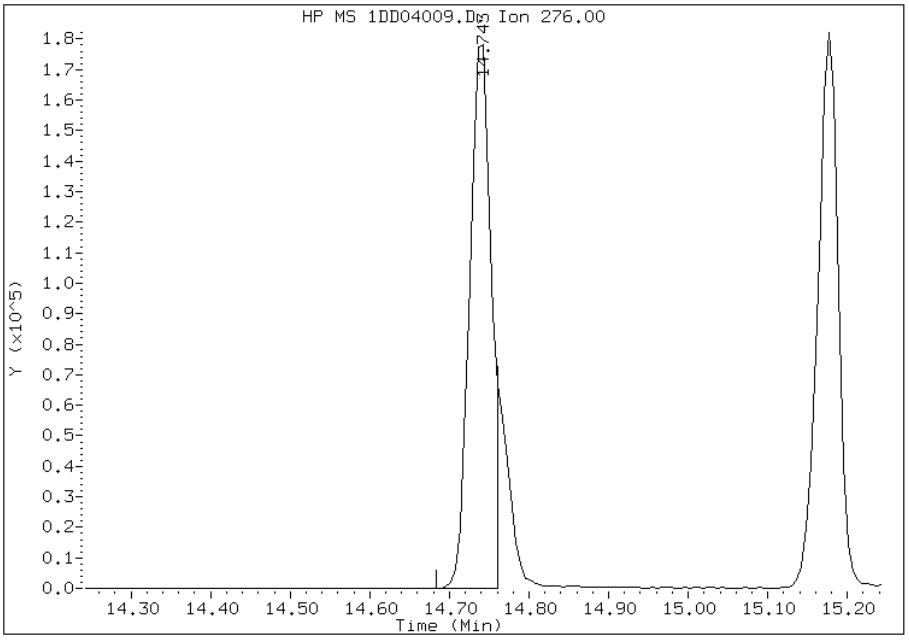
Manual Integration Results

RT: 14.74

Response: 336963

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
Lab Smp Id: IC-1531400
Inj Date : 04-APR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
*	6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
*	9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
$	13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
*	17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
*	22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
	2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
	3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
	4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
	5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
	7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
	8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
	10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
	11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
	12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
	14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
	15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
	16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
	18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
	19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
	20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
	21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
	23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
	24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
	25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

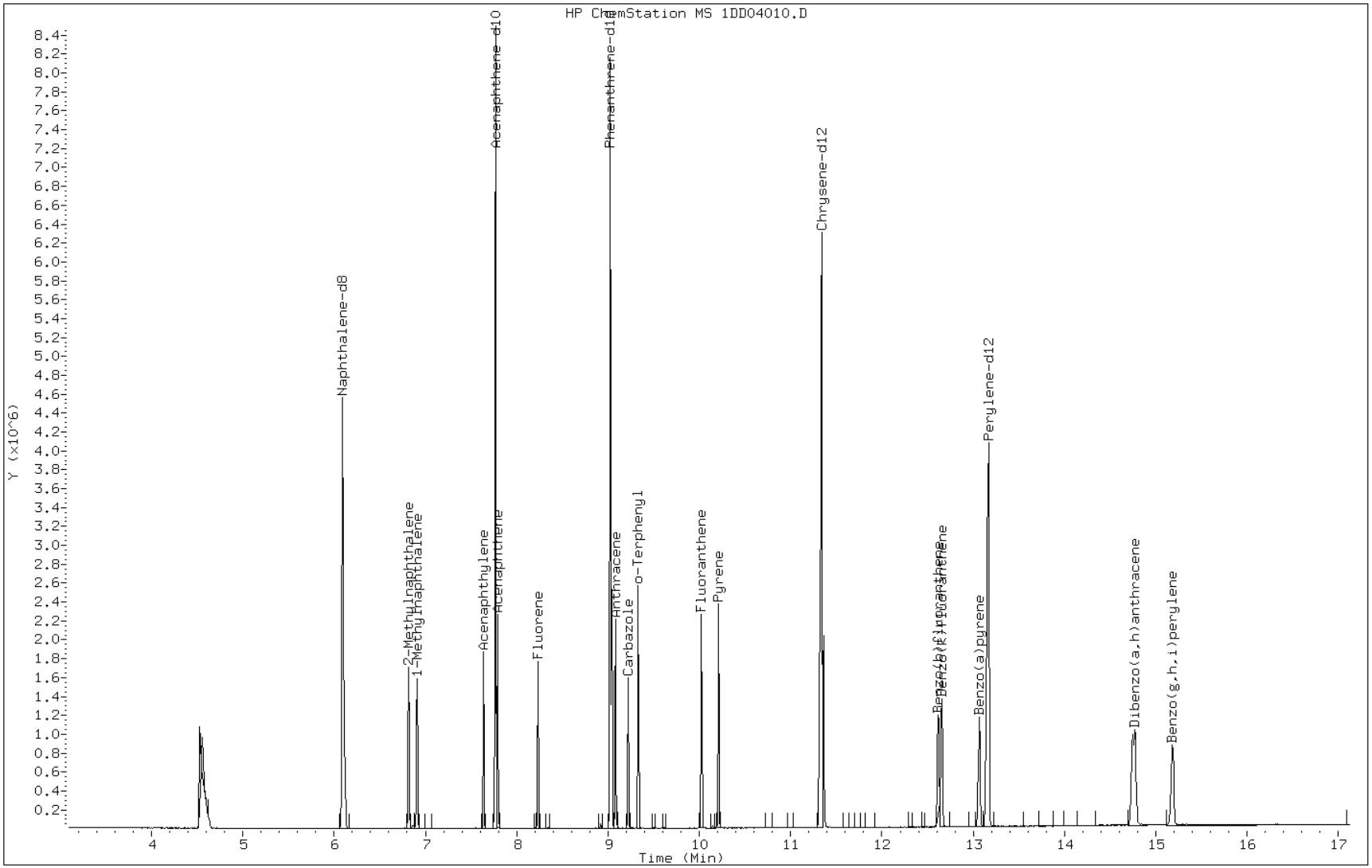
M - Compound response manually integrated.

Data File: 1DD04010.D

Date: 04-APR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

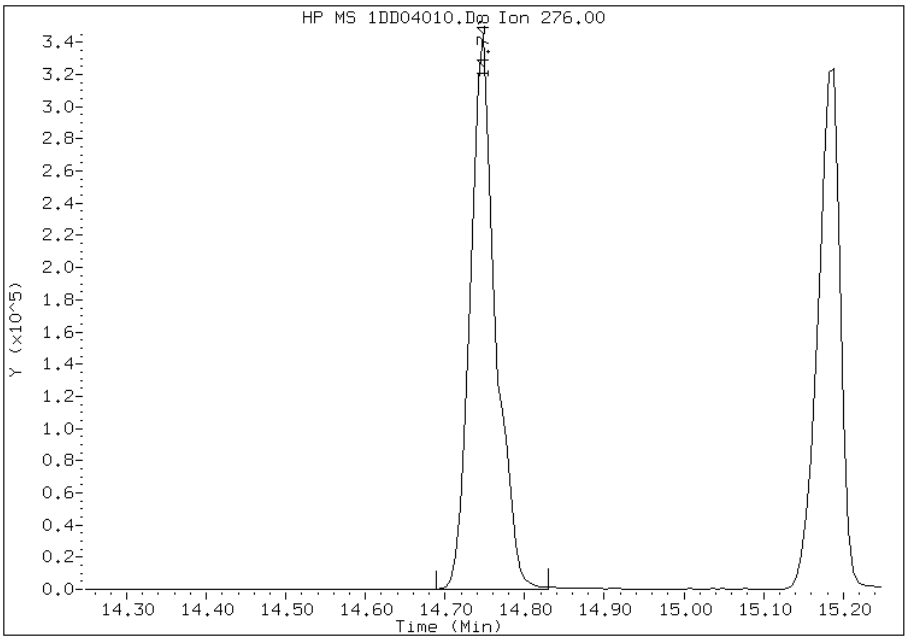
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



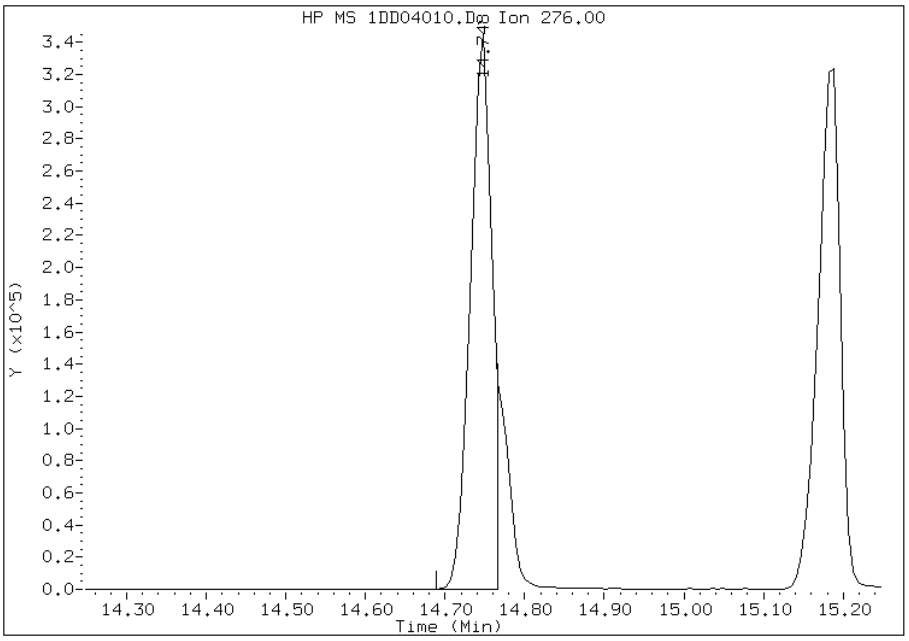
Manual Integration Results

RT: 14.75

Response: 647015

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/l)	(ug/l)
*	1 Naphthalene-d8	136	6.089	6.089	(1.000) 2475113	40.0000	
*	6 Acenaphthene-d10	164	7.769	7.769	(1.000) 1466924	40.0000	
*	9 Phenanthrene-d10	188	9.027	9.027	(1.000) 2428512	40.0000	
$	13 o-Terphenyl	230	9.332	9.332	(1.034) 754512	20.0000	21
*	17 Chrysene-d12	240	11.342	11.342	(1.000) 2464730	40.0000	
*	22 Perylene-d12	264	13.169	13.169	(1.000) 2515643	40.0000	
	2 Naphthalene	128	6.113	6.113	(1.004) 1235557	20.0000	20
	3 2-Methylnaphthalene	142	6.818	6.818	(1.120) 806286	20.0000	20
	4 1-Methylnaphthalene	142	6.912	6.912	(1.135) 757317	20.0000	20
	5 Acenaphthylene	152	7.640	7.640	(0.983) 1275622	20.0000	20
	7 Acenaphthene	154	7.793	7.793	(1.003) 757590	20.0000	20
	8 Fluorene	166	8.234	8.234	(1.060) 918747	20.0000	20
	10 Phenanthrene	178	9.044	9.044	(1.002) 1331875	20.0000	20
	11 Anthracene	178	9.086	9.086	(1.007) 1360668	20.0000	20
	12 Carbazole	167	9.227	9.227	(1.022) 1202897	20.0000	20
	14 Fluoranthene	202	10.026	10.026	(1.111) 1392506	20.0000	20
	15 Pyrene	202	10.214	10.214	(0.901) 1496990	20.0000	20
	16 Benzo(a)anthracene	228	11.324	11.324	(0.998) 1332372	20.0000	20
	18 Chrysene	228	11.365	11.365	(1.002) 1305118	20.0000	20
	19 Benzo(b)fluoranthene	252	12.623	12.623	(0.959) 1270704	20.0000	20
	20 Benzo(k)fluoranthene	252	12.664	12.664	(0.962) 1319239	20.0000	20
	21 Benzo(a)pyrene	252	13.075	13.075	(0.993) 1276688	20.0000	20
	23 Indeno(1,2,3-cd)pyrene	276	14.761	14.761	(1.121) 1333044	20.0000	20(M)
	24 Dibenzo(a,h)anthracene	278	14.785	14.785	(1.123) 1273836	20.0000	20
	25 Benzo(g,h,i)perylene	276	15.202	15.202	(1.154) 1285637	20.0000	20

QC Flag Legend

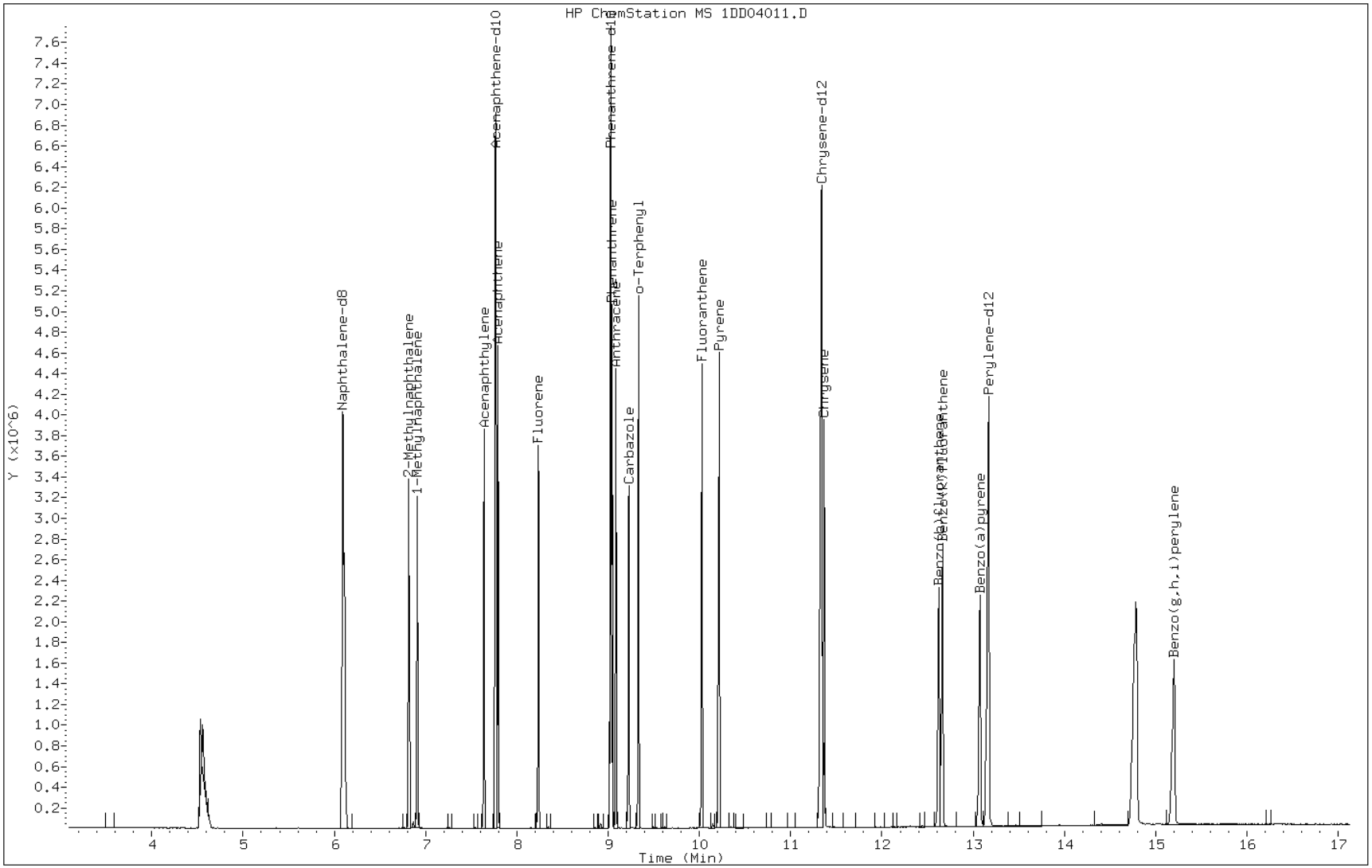
M - Compound response manually integrated.

Data File: 1DD04011.D

Date: 04-APR-2013 15:19

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

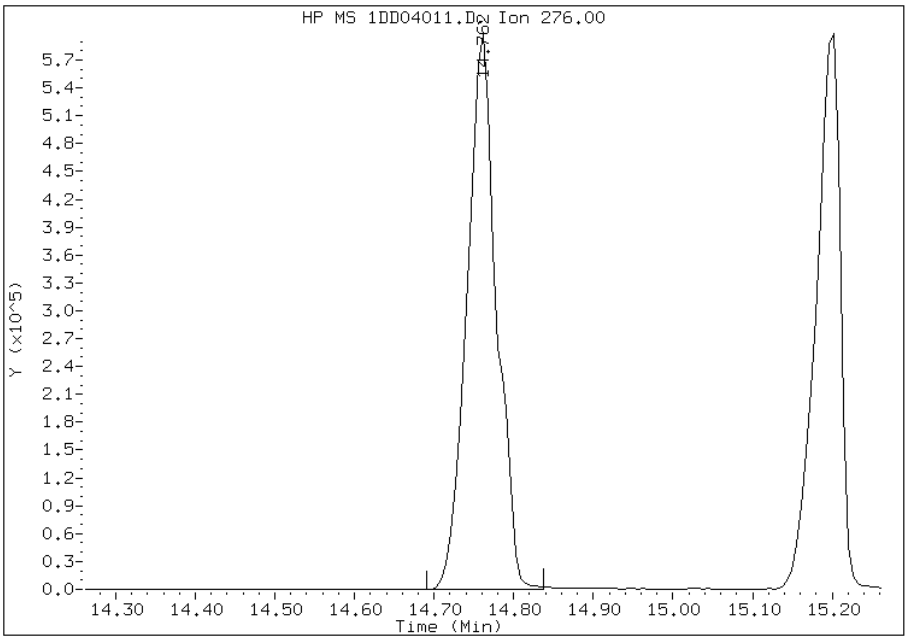
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



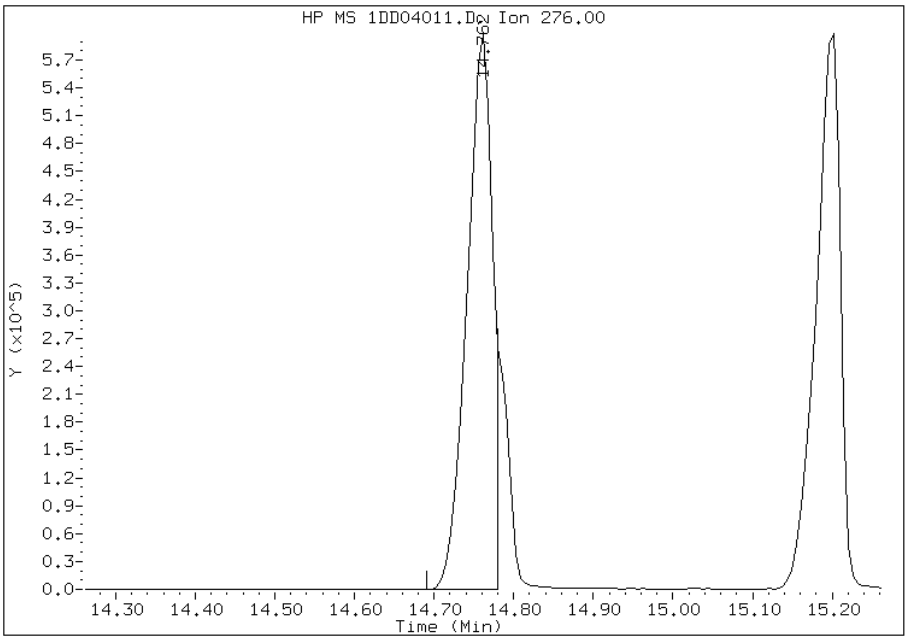
Manual Integration Results

RT: 14.76

Response: 1333044

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
*	6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
*	9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
$	13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
*	17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
*	22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
	2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
	3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
	4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
	5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
	7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
	8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
	10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
	11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
	12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
	14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
	15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
	16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
	18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
	19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
	20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
	21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
	23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
	24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
	25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

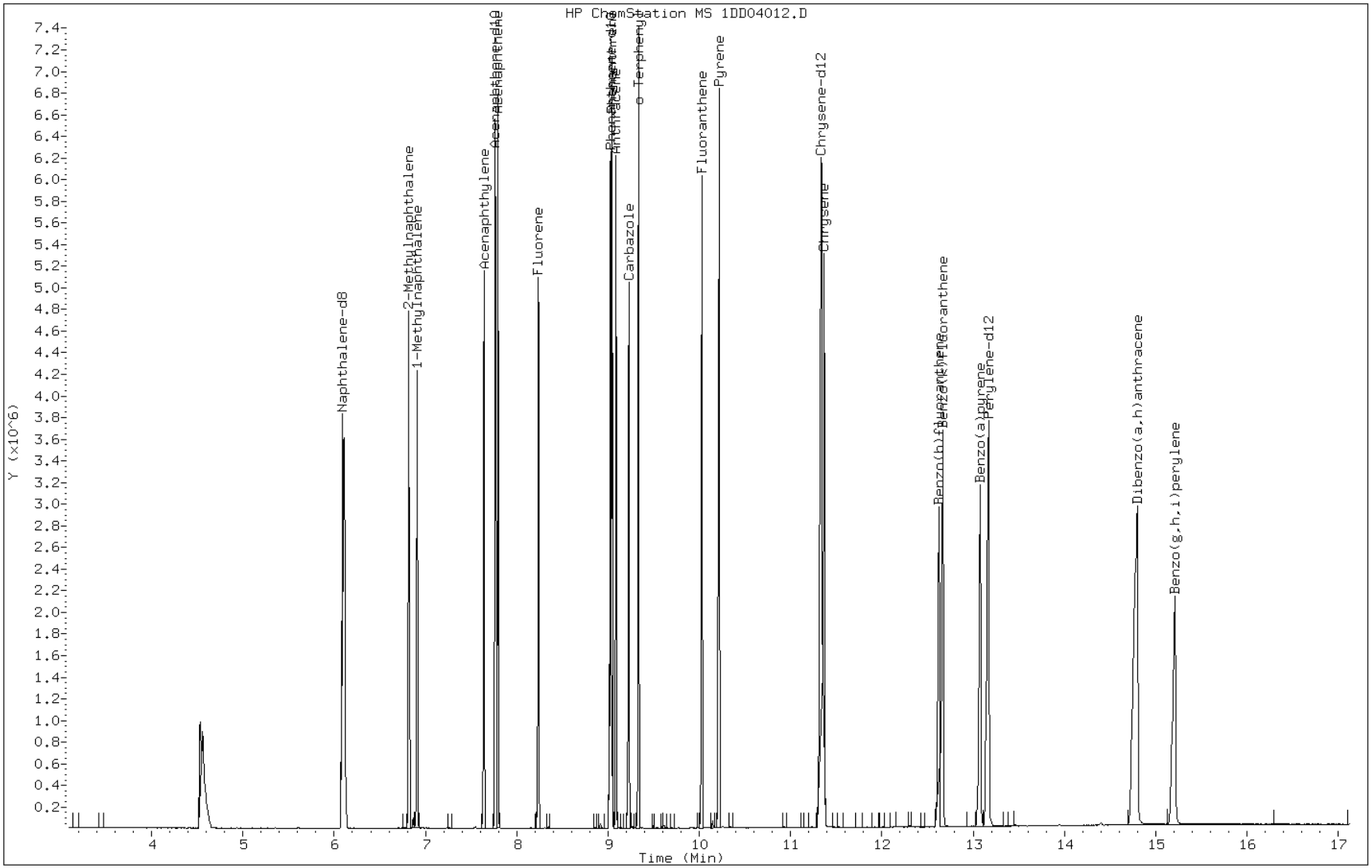
M - Compound response manually integrated.

Data File: 1DD04012.D

Date: 04-APR-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

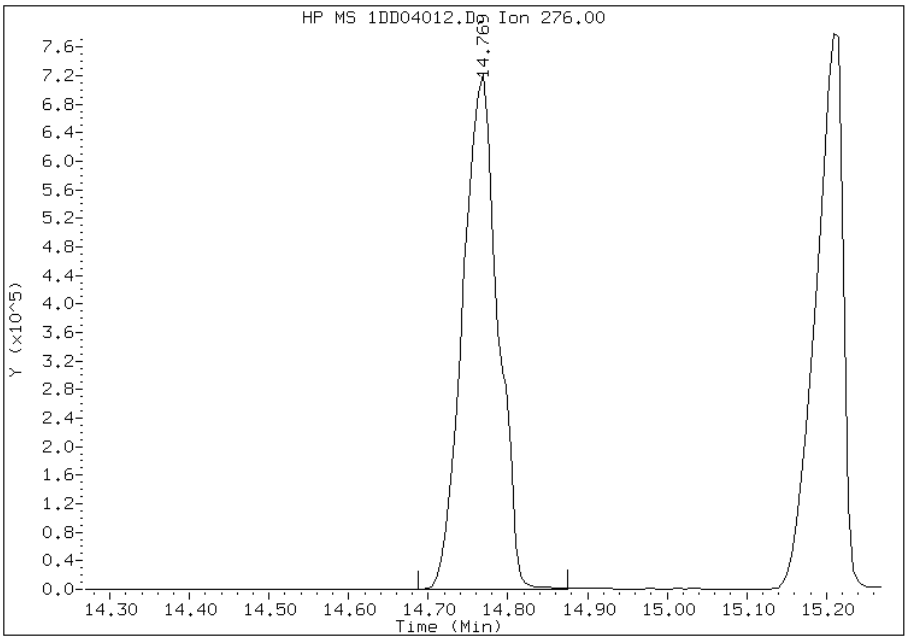
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



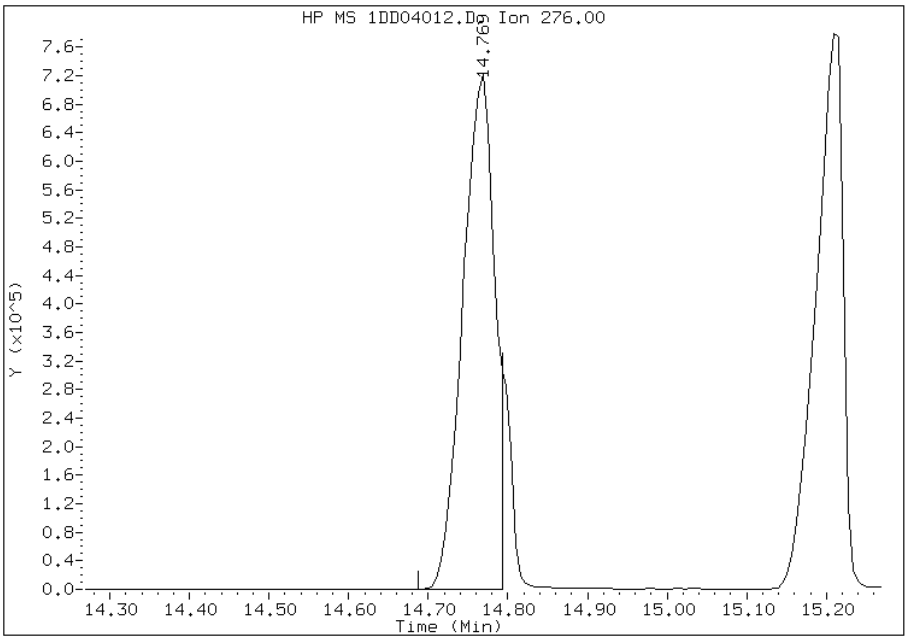
Manual Integration Results

RT: 14.77

Response: 2011375

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
Lab Smp Id: IC-1531403
Inj Date : 04-APR-2013 16:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000	
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000	
$ 13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000	57(A)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000	
* 22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000	53(A)
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000	54(A)
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000	54(A)
5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000	56(A)
7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000	54(A)
8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000	54(A)
10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000	54(A)
11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000	55(A)
12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000	55(A)
14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000	55(A)
15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000	53(A)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000	50(A)
18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000	52(A)
19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000	54(A)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000	53(A)
21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000	54(A)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000	57(AM)
24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000	54(A)
25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000	52(A)

QC Flag Legend

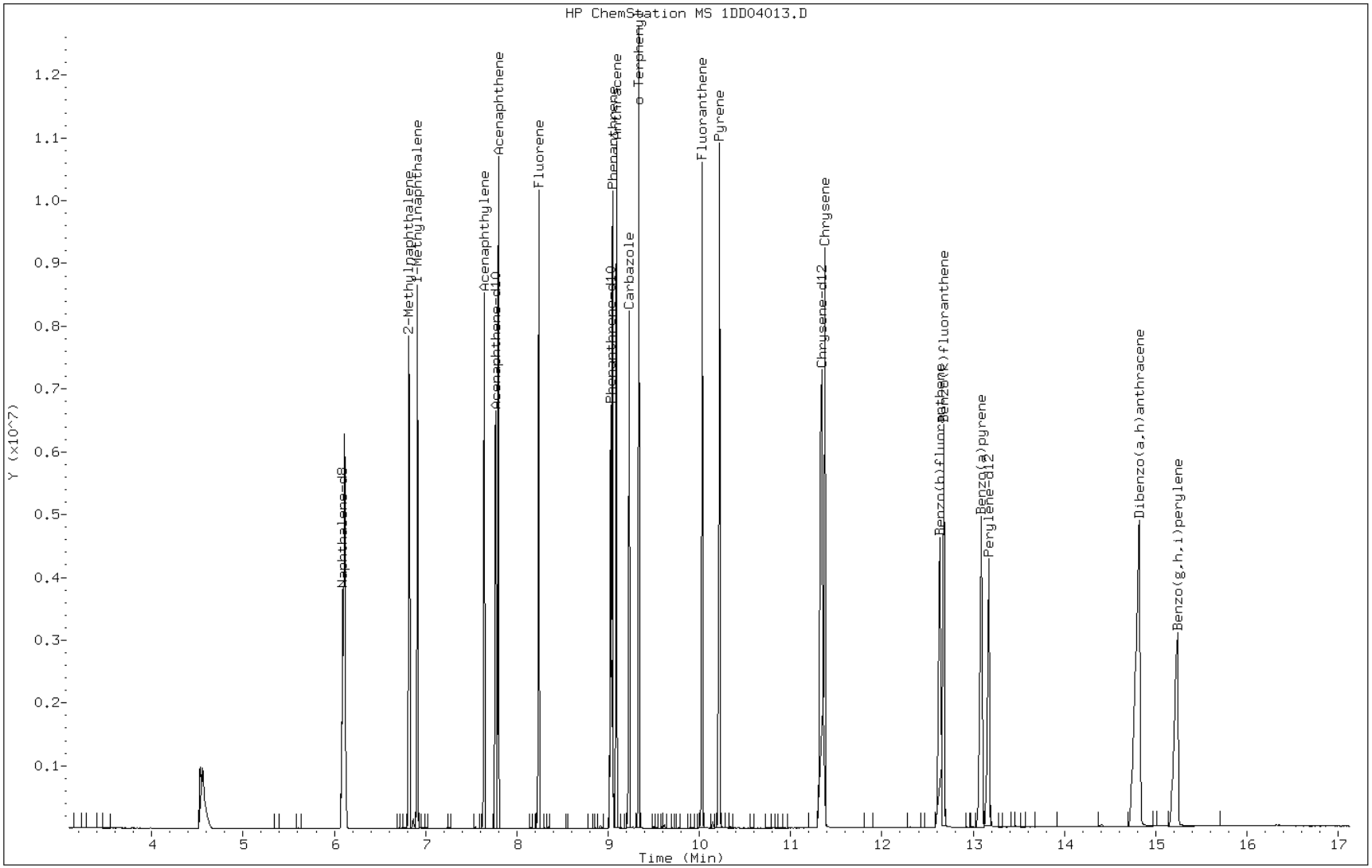
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

Date: 04-APR-2013 16:04

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

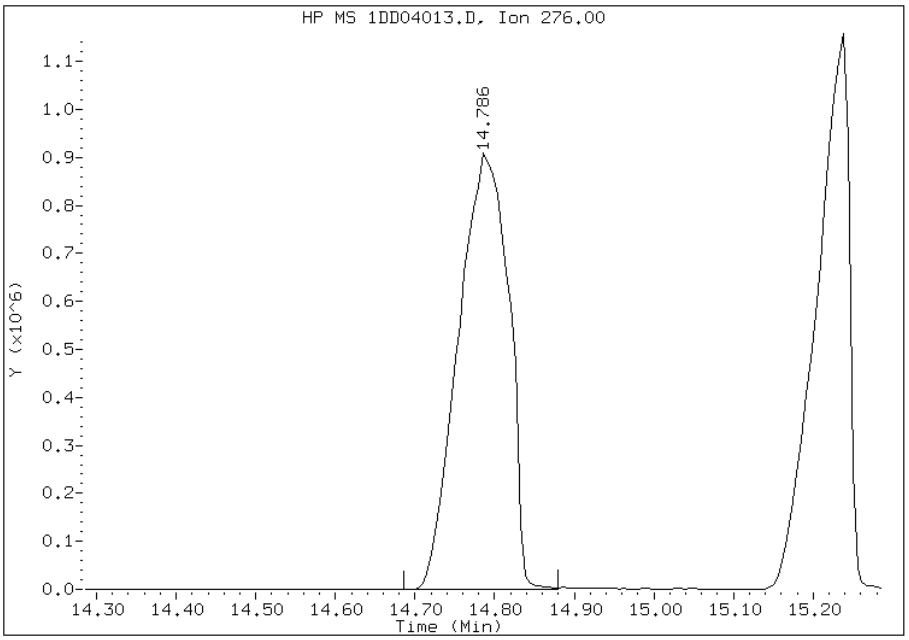
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



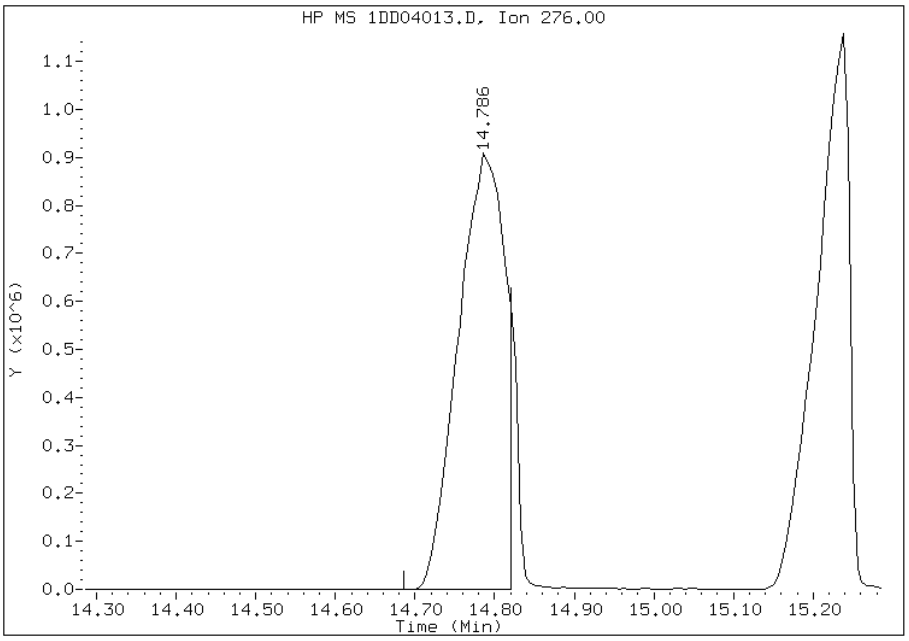
Manual Integration Results

RT: 14.79

Response: 3754268

Amount: 57

Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD04014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	18100	20000	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	18600	20000	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	18800	20000	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	16900	20000	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	16300	20000	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	17800	20000	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	16300	20000	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	16800	20000	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	14200	20000	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	17500	20000	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	15900	20000	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	17000	20000	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	16100	20000	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	17800	20000	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	16600	20000	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	15300	20000	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	16000	20000	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	18800	20000	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	17000	20000	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16600	20000	-17.2	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
Lab Smp Id: ICV-1448440
Inj Date : 04-APR-2013 16:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.096	6.090	(1.000)	3619899	40.0000	
* 6 Acenaphthene-d10	164	7.771	7.770	(1.000)	2333423	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	3845474	40.0000	
$ 13 o-Terphenyl	230	9.334	9.339	(1.034)	959307	16.5566	16
* 17 Chrysene-d12	240	11.349	11.349	(1.000)	3963674	40.0000	
* 22 Perylene-d12	264	13.182	13.176	(1.000)	3958481	40.0000	
2 Naphthalene	128	6.114	6.114	(1.003)	1630598	18.1229	18
3 2-Methylnaphthalene	142	6.819	6.819	(1.119)	1078163	18.5630	18
4 1-Methylnaphthalene	142	6.913	6.913	(1.134)	1031118	18.7992	19
5 Acenaphthylene	152	7.642	7.641	(0.983)	1669244	16.9019	17
7 Acenaphthene	154	7.800	7.800	(1.004)	994282	16.3100	16
8 Fluorene	166	8.241	8.240	(1.060)	1281905	17.7572	18
10 Phenanthrene	178	9.046	9.051	(1.002)	1729949	16.3322	16
11 Anthracene	178	9.087	9.092	(1.007)	1768381	16.8207	17
12 Carbazole	167	9.228	9.233	(1.022)	1319041	14.2242	14(M)
14 Fluoranthene	202	10.027	10.032	(1.111)	1910613	17.5287	18
15 Pyrene	202	10.215	10.220	(0.900)	1898084	15.9464	16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

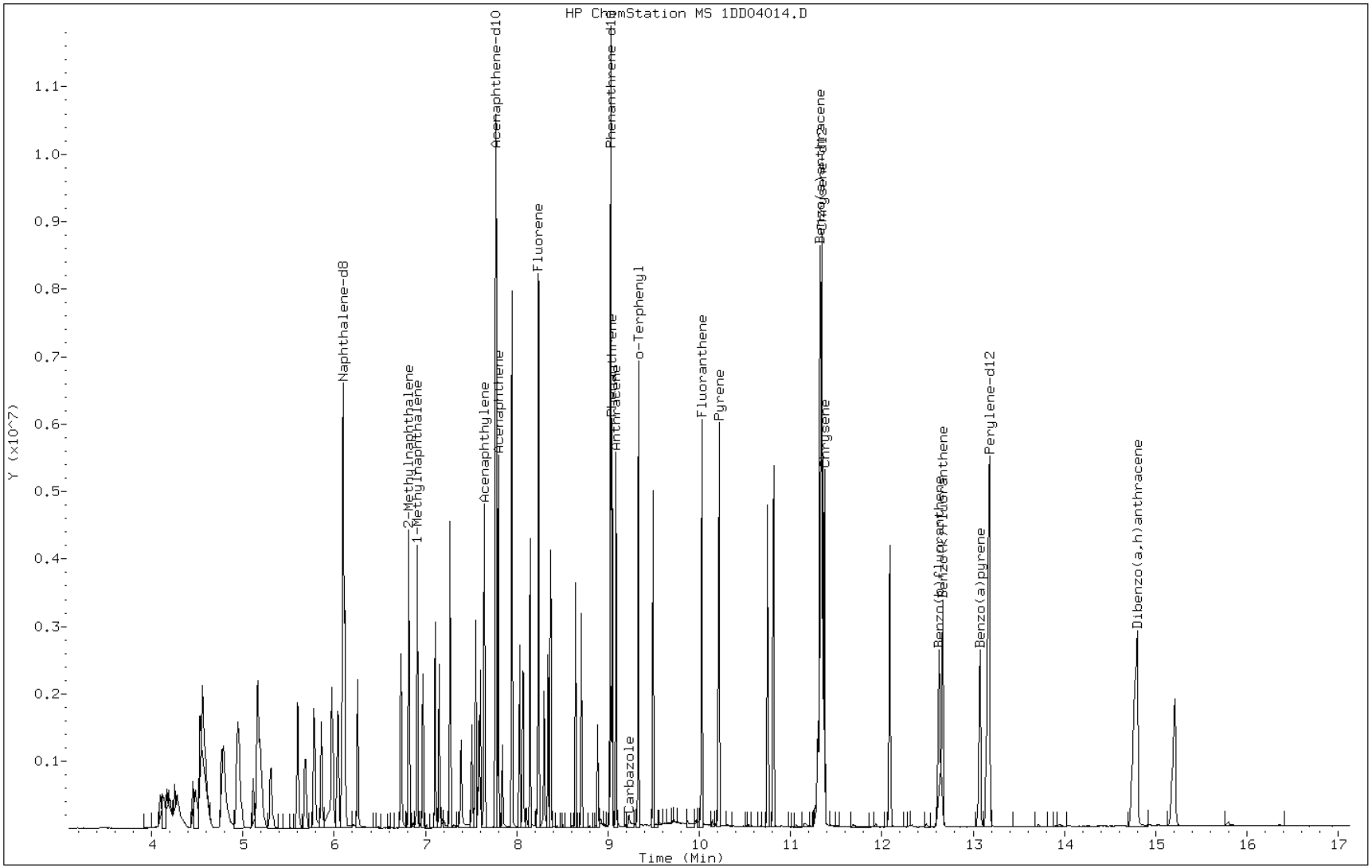
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04014.D

Date: 04-APR-2013 16:27

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

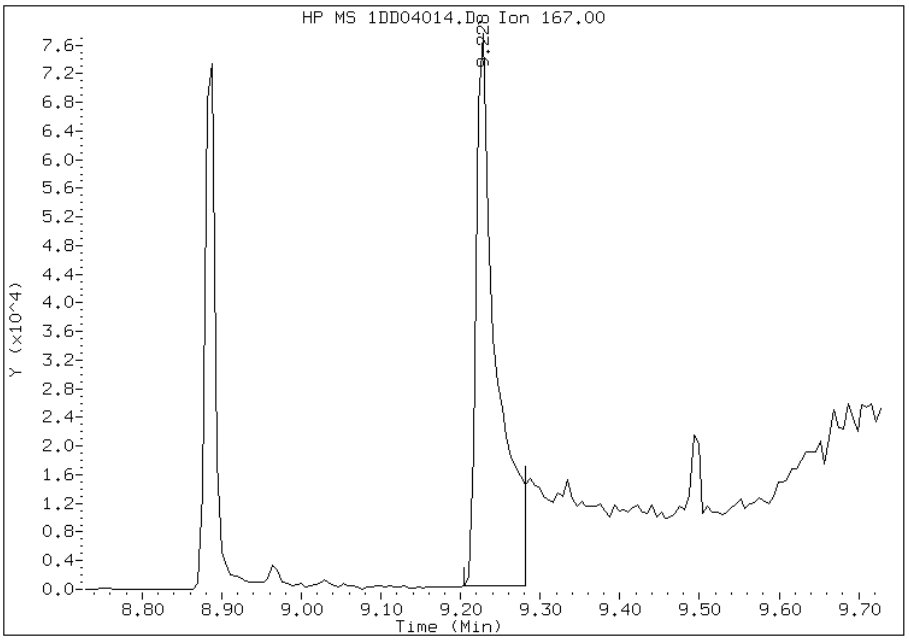
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



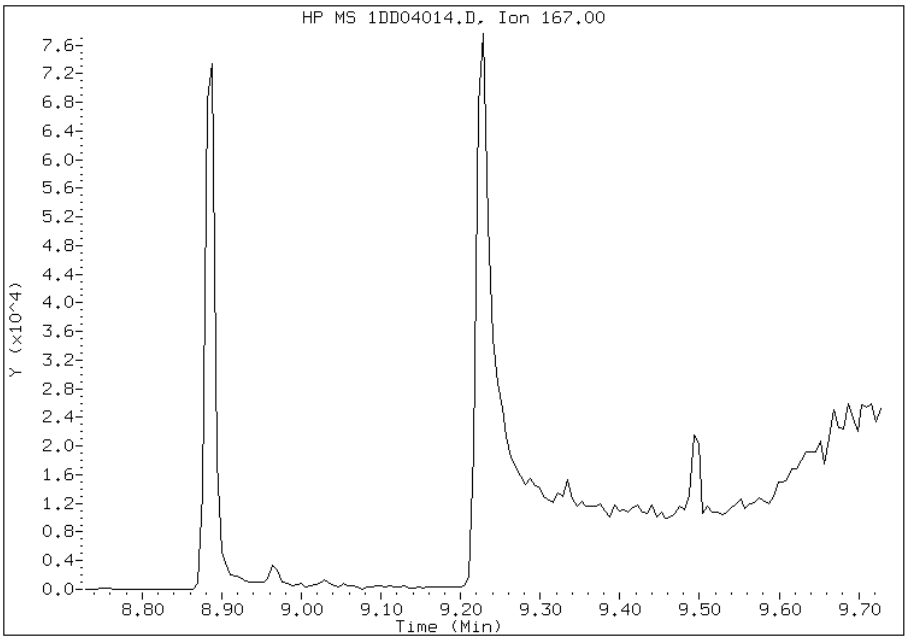
Manual Integration Results

RT: 9.23

Response: 1319041

Amount: 14

Conc: 14



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

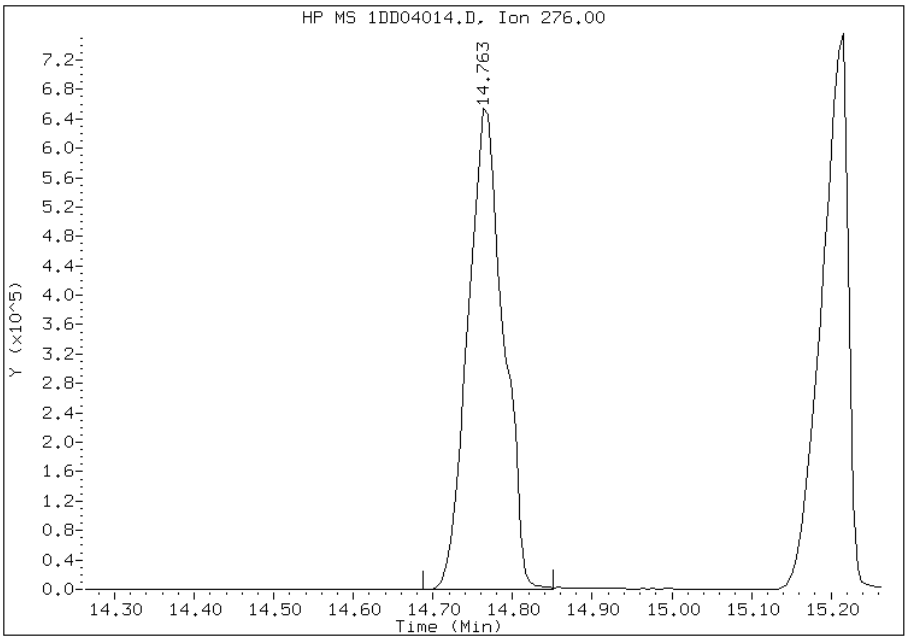
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



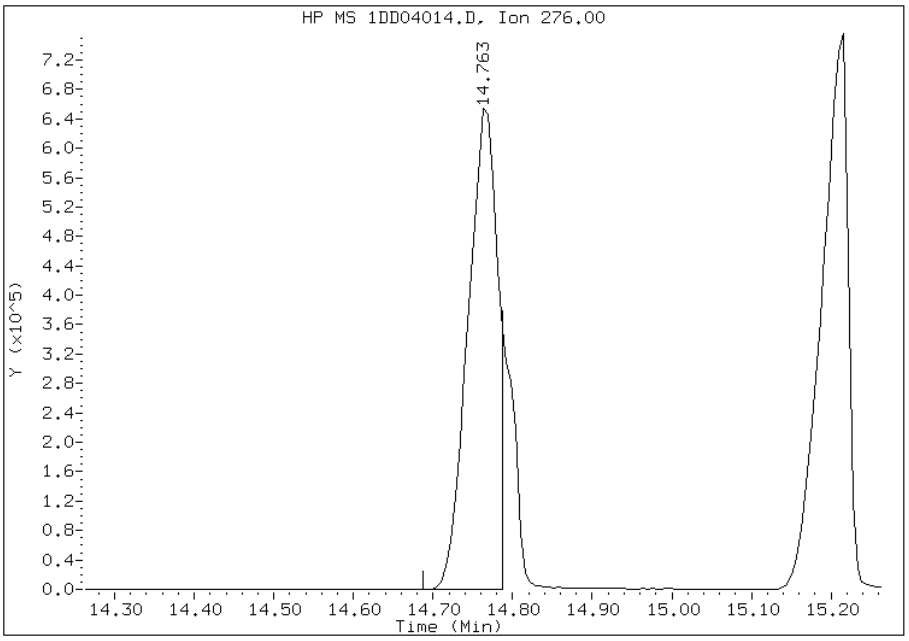
Manual Integration Results

RT: 14.76

Response: 1694283

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Lab Sample ID: CCVIS 660-136591/7 Calibration Date: 04/18/2013 14:03

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD18006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9864	0.0000	19800	20000	-0.8	20.0
2-Methylnaphthalene	Ave	0.6418	0.6510	0.0000	20300	20000	1.4	20.0
1-Methylnaphthalene	Ave	0.6061	0.6423	0.0000	21200	20000	6.0	20.0
Acenaphthylene	Ave	1.693	1.686	0.0000	19900	20000	-0.4	20.0
Acenaphthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Fluorene	Ave	1.238	1.214	0.0000	19600	20000	-1.9	20.0
Phenanthrene	Ave	1.102	1.069	0.0000	19400	20000	-3.0	20.0
Anthracene	Ave	1.094	1.076	0.0000	19700	20000	-1.6	20.0
Carbazole	Ave	0.9646	0.9106	0.0000	18900	20000	-5.6	20.0
Fluoranthene	Ave	1.134	1.186	0.0000	20900	20000	4.6	20.0
Pyrene	Ave	1.201	1.167	0.0000	19400	20000	-2.8	20.0
Benzo[a]anthracene	Ave	1.156	1.046	0.0000	18100	20000	-9.5	20.0
Chrysene	Ave	1.084	1.051	0.0000	19400	20000	-3.1	20.0
Benzo[b]fluoranthene	Ave	0.999	0.999	0.0000	20000	20000	-0.0	20.0
Benzo[k]fluoranthene	Ave	1.053	1.043	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	1.004	1.000	0.0000	19900	20000	-0.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.074	0.0000	20100	20000	0.3	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.006	0.0000	20000	20000	-0.2	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.017	0.0000	19700	20000	-1.3	20.0
o-Terphenyl	Ave	0.6027	0.6576	0.0000	21800	20000	9.1	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18006.D
Lab Smp Id: CCV-1531401
Inj Date : 18-APR-2013 14:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.062	6.062	(1.000)	2616608	40.0000	
*	6 Acenaphthene-d10	164	7.742	7.742	(1.000)	1662048	40.0000	(H)
*	9 Phenanthrene-d10	188	8.999	8.999	(1.000)	2746064	40.0000	
$	13 o-Terphenyl	230	9.311	9.311	(1.035)	902837	20.0000	22
*	17 Chrysene-d12	240	11.314	11.314	(1.000)	2986677	40.0000	
*	22 Perylene-d12	264	13.130	13.130	(1.000)	3037301	40.0000	(H)
	2 Naphthalene	128	6.085	6.085	(1.004)	1290501	20.0000	20
	3 2-Methylnaphthalene	142	6.790	6.790	(1.120)	851660	20.0000	20
	4 1-Methylnaphthalene	142	6.884	6.884	(1.136)	840345	20.0000	21
	5 Acenaphthylene	152	7.613	7.613	(0.983)	1401008	20.0000	20(H)
	7 Acenaphthene	154	7.766	7.766	(1.003)	860576	20.0000	20(H)
	8 Fluorene	166	8.212	8.212	(1.061)	1008817	20.0000	20(H)
	10 Phenanthrene	178	9.017	9.017	(1.002)	1467573	20.0000	19
	11 Anthracene	178	9.058	9.058	(1.007)	1477887	20.0000	20
	12 Carbazole	167	9.199	9.199	(1.022)	1250247	20.0000	19
	14 Fluoranthene	202	10.004	10.004	(1.112)	1627730	20.0000	21
	15 Pyrene	202	10.192	10.192	(0.901)	1743102	20.0000	19
	16 Benzo(a)anthracene	228	11.291	11.291	(0.998)	1562768	20.0000	18
	18 Chrysene	228	11.338	11.338	(1.002)	1569537	20.0000	19
	19 Benzo(b)fluoranthene	252	12.583	12.583	(0.958)	1516864	20.0000	20(H)
	20 Benzo(k)fluoranthene	252	12.625	12.625	(0.962)	1583637	20.0000	20(H)
	21 Benzo(a)pyrene	252	13.036	13.036	(0.993)	1519377	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.704	14.704	(1.120)	1630778	20.0000	20(MH)
	24 Dibenzo(a,h)anthracene	278	14.734	14.734	(1.122)	1527468	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.145	15.145	(1.153)	1545089	20.0000	20(H)

QC Flag Legend

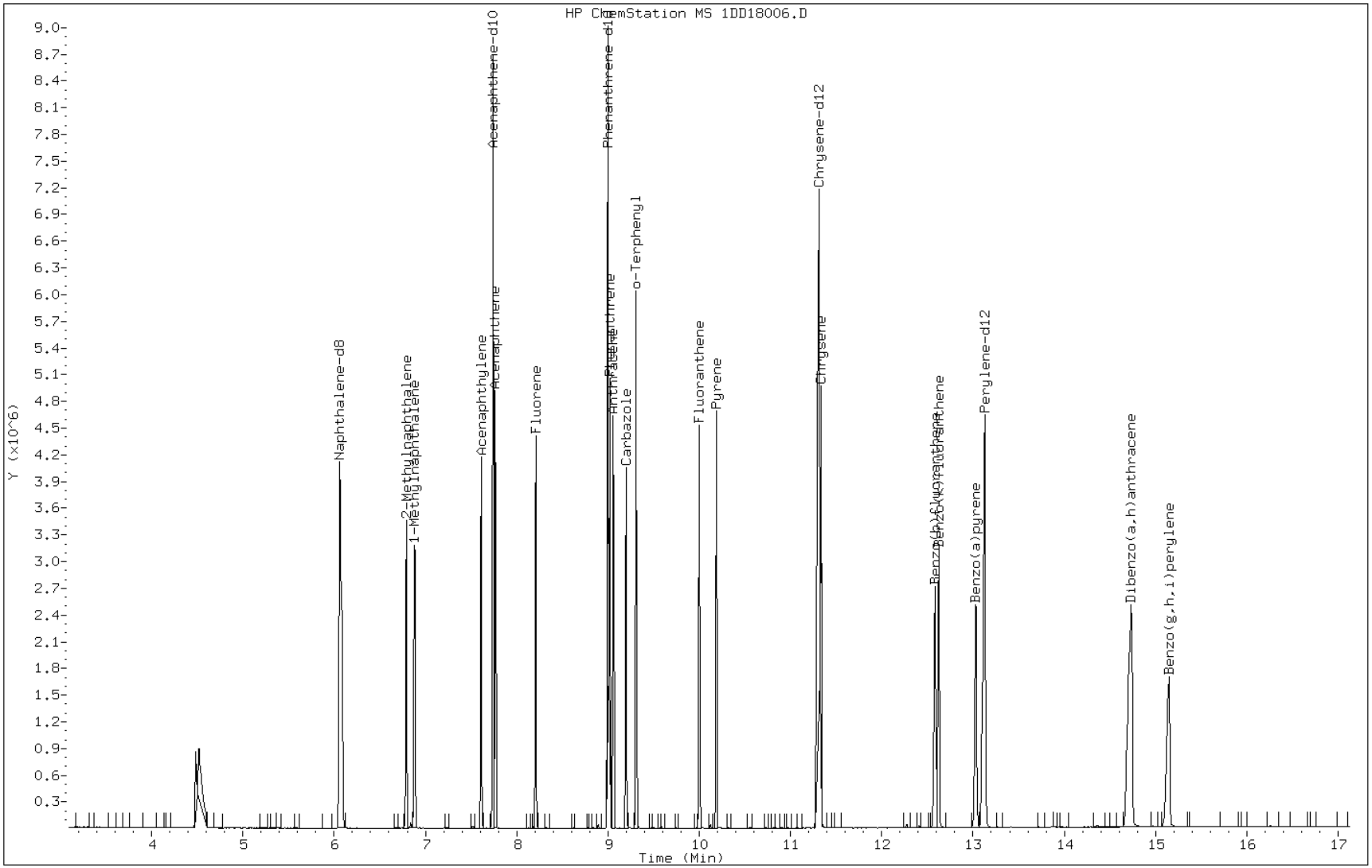
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD18006.D

Date: 18-APR-2013 14:03

Client ID: Instrument: BSMSD.i

Sample Info: CCV-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD18006.D
Inj. Date and Time: 18-APR-2013 14:03
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

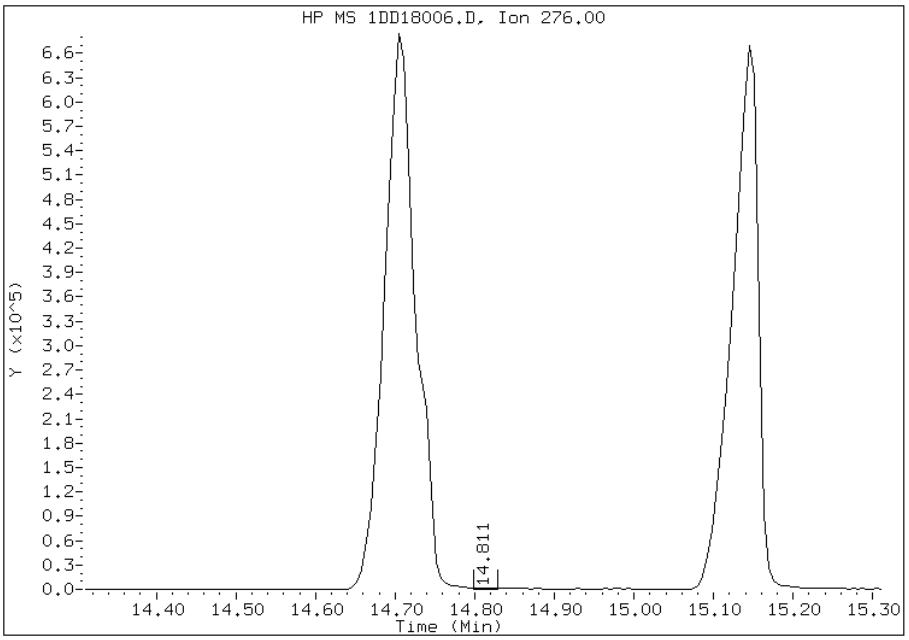
Processing Integration Results

RT: 14.81

Response: 1564

Amount: 0

Conc: 0



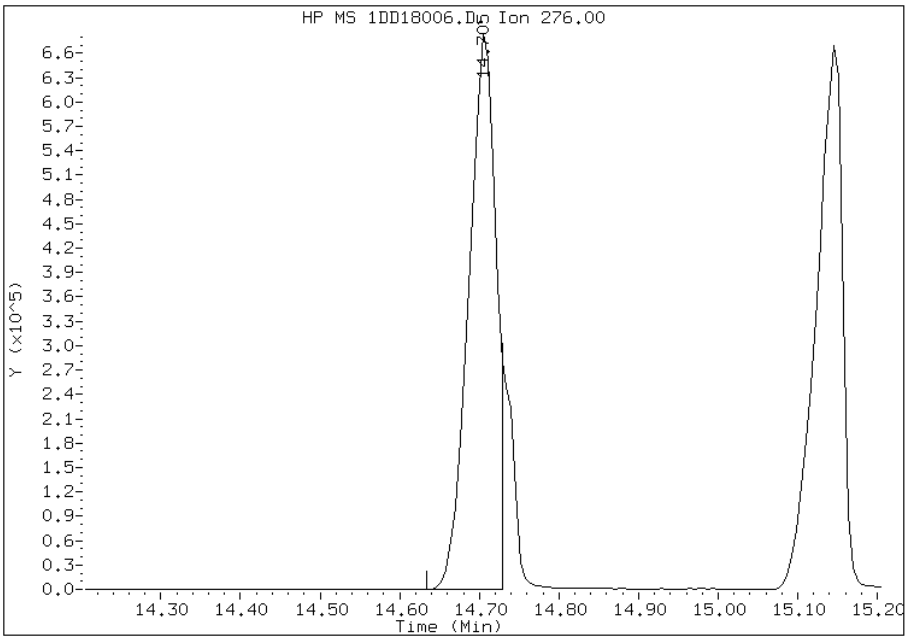
Manual Integration Results

RT: 14.70

Response: 1630778

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 14:24
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-APR-2013 12:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.382	8.532	-0.150	198	72572			50.00- 0.00	100.00
8.382	8.532	-0.150	51	32556			10.00- 80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	69	32936			0.00- 0.00	45.38
8.382	8.532	-0.150	70	114			0.00- 2.00	0.35
8.382	8.532	-0.150	127	36680			10.00- 80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	442	48716			50.00- 0.00	67.13
8.382	8.532	-0.150	199	4977			5.00- 9.00	6.86
8.382	8.532	-0.150	275	19350			10.00- 60.00	26.66
8.382	8.532	-0.150	365	2279			1.00- 0.00	3.14
8.382	8.532	-0.150	441	2370			0.01- 99.99	23.58
8.382	8.532	-0.150	443	10052			15.00- 24.00	20.63

Data File: 1DD04003.D

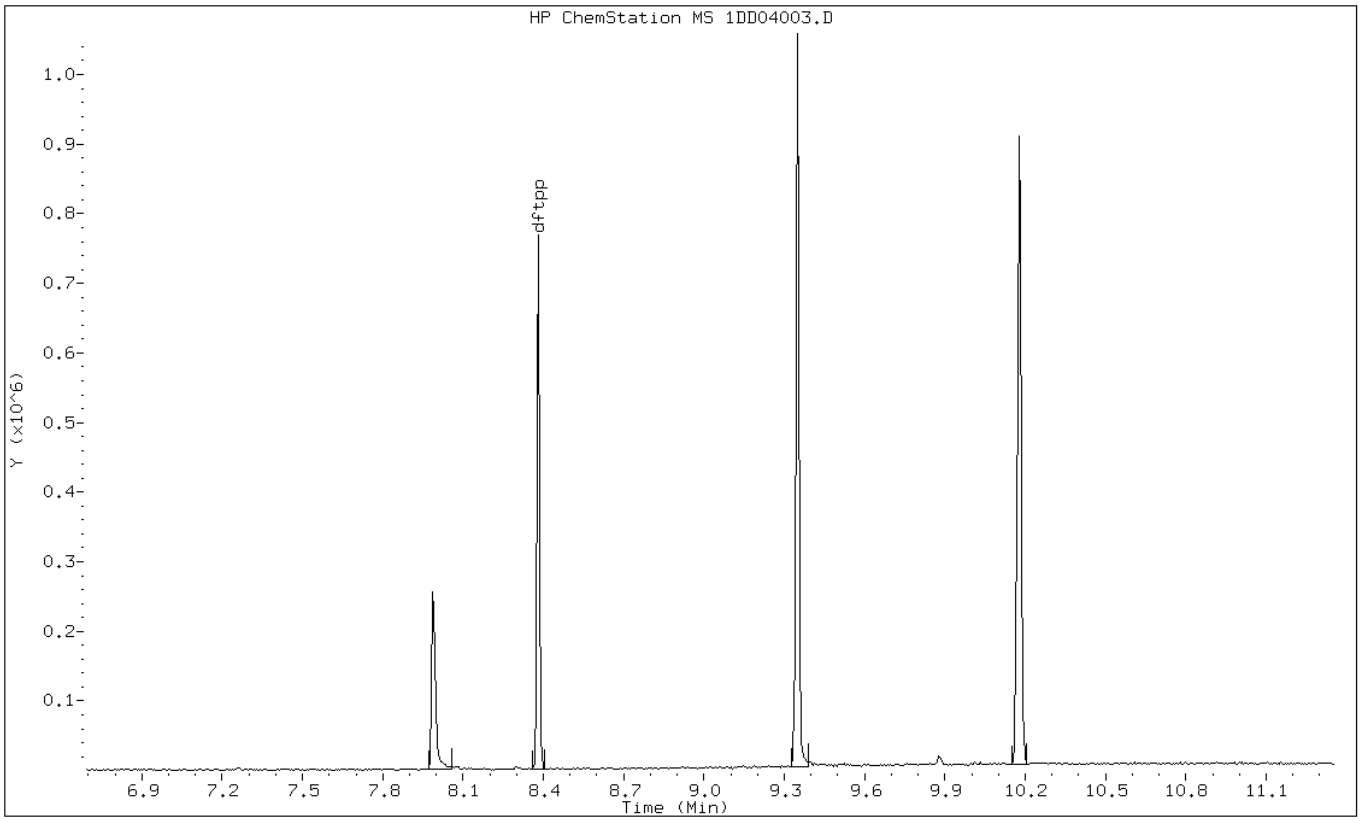
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



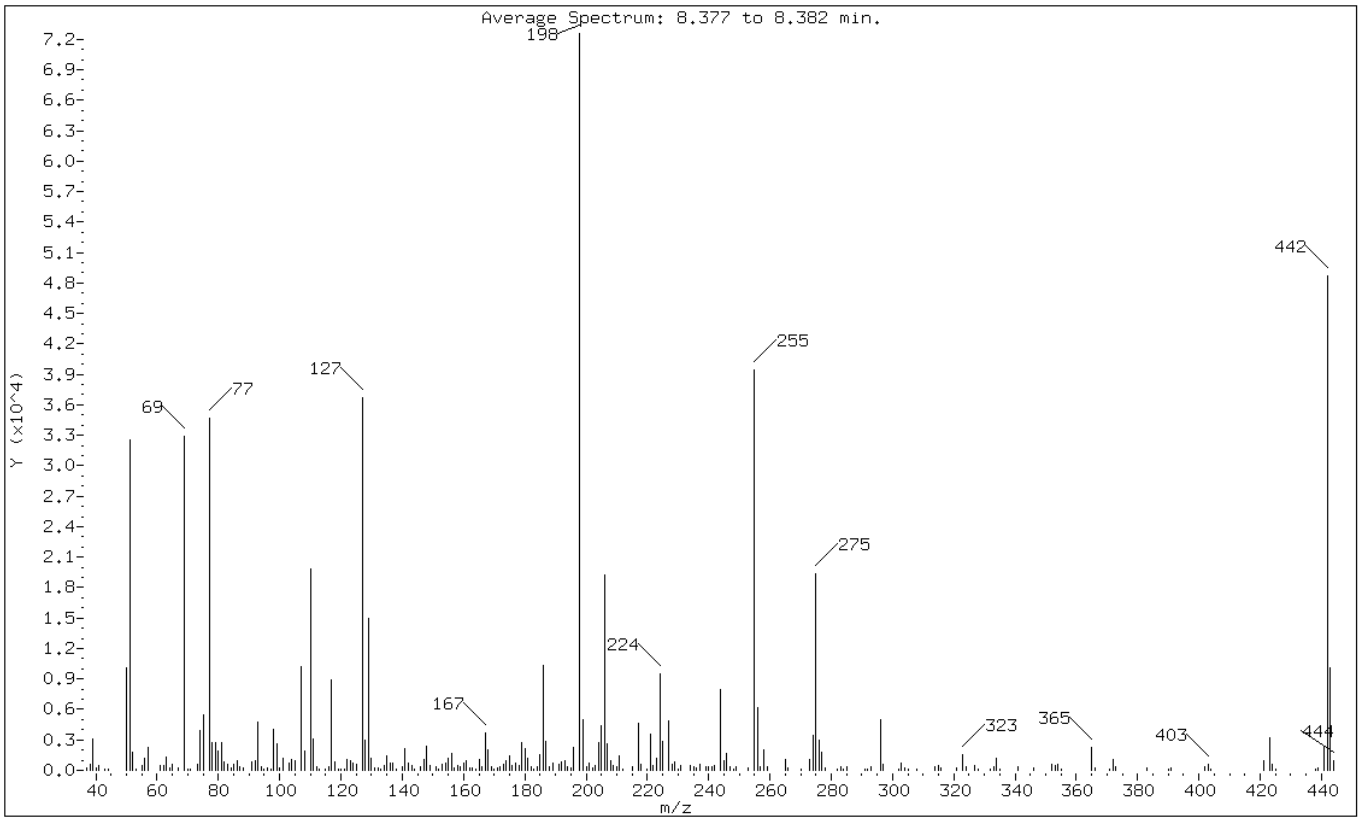
Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

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	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Spectrum: Average Spectrum: 8.377 to 8.382 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.349	8.532	-0.183	198	70128			50.00- 0.00	100.00
8.349	8.532	-0.183	51	32928			10.00- 80.00	46.95
8.349	8.532	-0.183	68	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	69	32616			0.00- 0.00	46.51
8.349	8.532	-0.183	70	215			0.00- 2.00	0.66
8.349	8.532	-0.183	127	33552			10.00- 80.00	47.84
8.349	8.532	-0.183	197	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	442	41592			50.00- 0.00	59.31
8.349	8.532	-0.183	199	5399			5.00- 9.00	7.70
8.349	8.532	-0.183	275	18384			10.00- 60.00	26.21
8.349	8.532	-0.183	365	1838			1.00- 0.00	2.62
8.349	8.532	-0.183	441	6026			0.01- 99.99	70.67
8.349	8.532	-0.183	443	8527			15.00- 24.00	20.50

Data File: 1DD18005.D

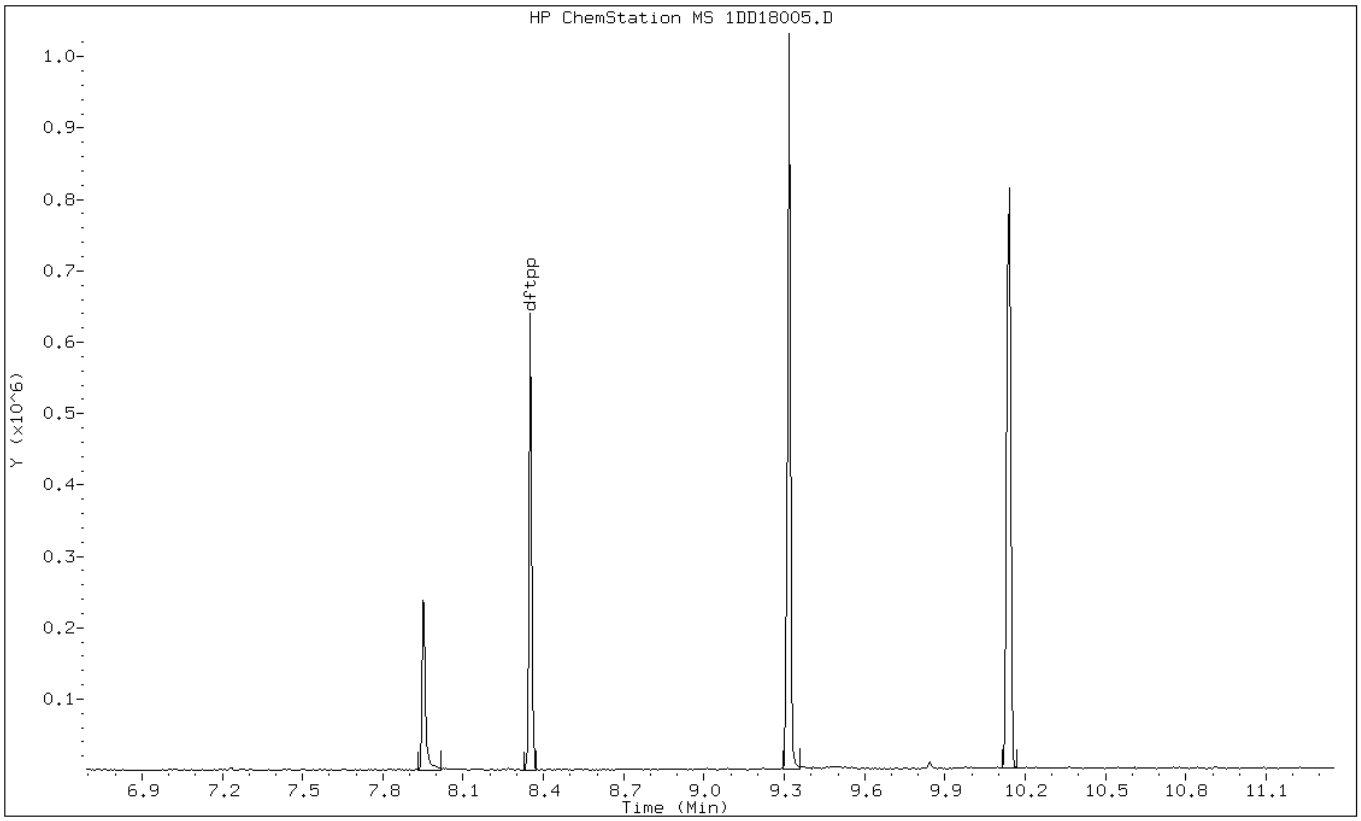
Date: 18-APR-2013 13:43

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



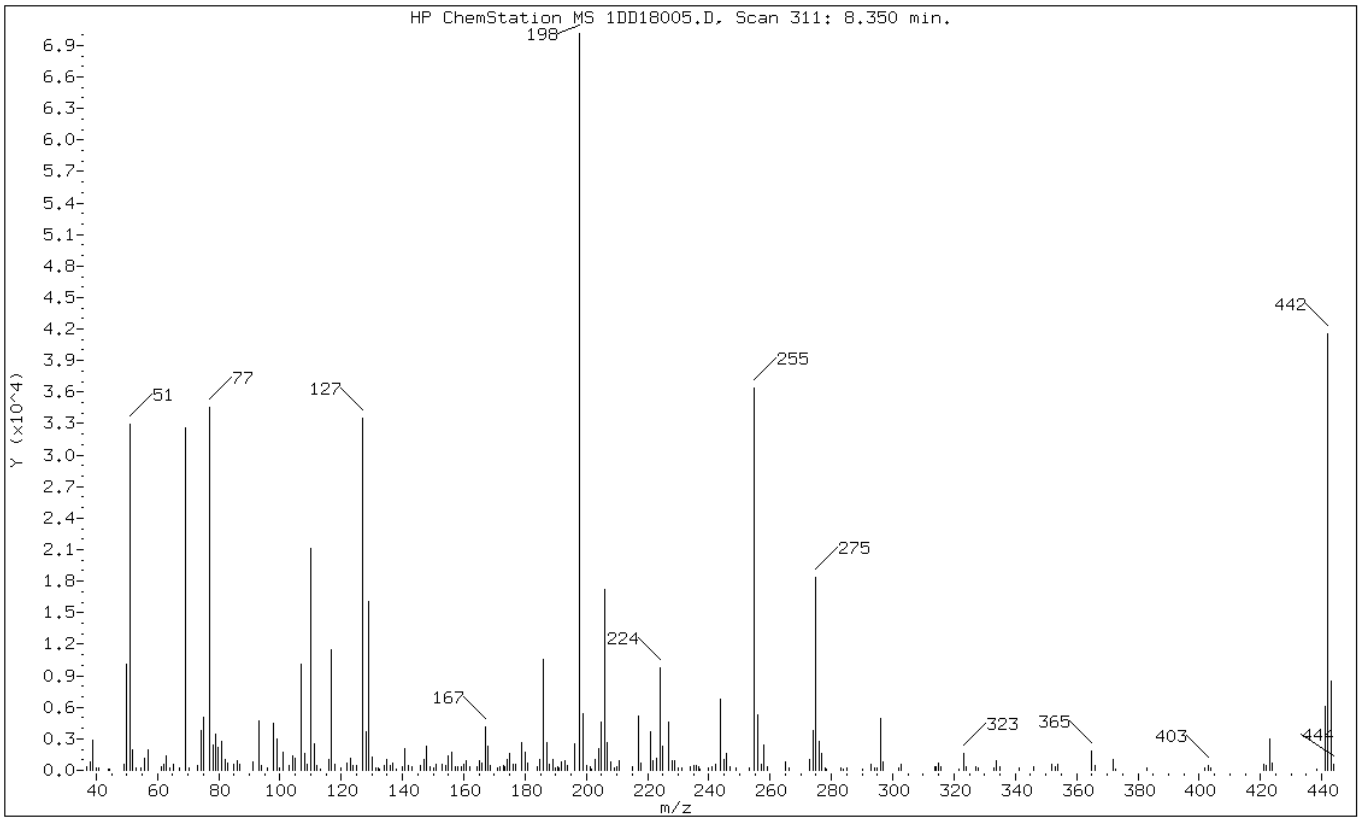
Data File: 1DD18005.D

Date: 18-APR-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

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	46.95
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.51
70	Less than 2.00% of mass 69	0.31 (0.66)
127	10.00 - 80.00% of mass 198	47.84
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	59.31
199	5.00 - 9.00% of mass 198	7.70
275	10.00 - 60.00% of mass 198	26.21
365	Greater than 1.00% of mass 198	2.62
441	Present, but less than mass 443	8.59
443	15.00 - 24.00% of mass 442	12.16 (20.50)

Data File: 1DD18005.D

Date: 18-APR-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18005.D
Spectrum: HP ChemStation MS 1DD18005.D, Scan 311: 8.350 min.
Location of Maximum: 197.90
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	315	119.90	199	187.00	2601	266.00	190
38.00	838	121.80	694	187.80	546	272.90	1043
39.00	2849	122.90	1118	189.00	1009	274.00	3764
39.90	239	124.00	467	190.00	261	275.00	18384
41.00	191	125.00	502	190.80	323	275.90	2740
43.90	156	127.00	33552	191.10	251	276.80	1632
44.40	159	128.00	3711	191.90	831	277.90	237
49.00	613	128.90	16047	192.90	921	278.40	161
50.00	10141	130.00	1277	193.90	439	282.90	202
51.00	32928	131.20	245	196.00	2556	283.90	156
52.00	1960	131.90	181	197.90	70128	285.00	258
52.90	201	132.60	156	198.90	5399	290.00	153
54.70	235	134.00	504	200.00	478	292.80	550
55.90	1108	134.90	1060	201.10	336	294.10	185
57.00	1924	135.80	443	201.70	163	294.80	256
61.10	379	136.90	683	202.90	1078	295.90	4916
61.90	518	137.90	164	203.90	2110	296.90	808
63.00	1400	140.10	371	205.00	4559	302.00	200
64.10	200	140.90	2015	206.00	17272	302.90	631
65.10	599	141.90	488	206.90	2597	313.70	304
67.00	205	142.90	371	208.00	825	314.00	291
69.00	32616	145.90	514	209.00	222	314.90	701
70.30	215	146.90	1063	209.90	353	315.90	362
73.00	415	147.90	2337	210.80	893	321.50	159
74.10	3830	148.90	351	214.90	345	323.00	1565
75.00	5099	150.00	173	216.90	5151	324.00	390
77.00	34512	151.00	545	217.90	677	327.00	310
78.00	2382	152.90	595	220.90	3626	328.00	221
79.00	3411	153.90	427	221.90	886	333.10	234
79.90	2133	155.00	1366	222.90	1098	333.90	969
81.00	2805	156.00	1753	223.90	9746	335.00	332
82.00	1079	157.20	343	225.00	2303	341.20	194
82.90	707	157.90	363	226.90	4592	345.90	300
84.90	539	159.00	327	228.10	862	352.00	553
86.00	921	159.80	620	228.80	890	353.00	400
86.90	568	160.90	970	230.00	254	354.00	552
91.00	843	162.10	374	231.20	177	364.80	1838
93.00	4658	164.20	287	234.10	295	366.00	435
93.90	424	164.90	898	235.10	444	371.90	1060
95.80	231	165.90	672	235.80	416	372.90	156

97.90	4477	167.00	4140	236.70	385	382.80	226
99.00	2950	167.90	2311	237.20	159	402.00	256
99.90	275	168.80	459	239.70	198	402.90	509
101.00	1700	170.90	194	240.90	314	403.90	191
102.90	461	171.80	322	242.00	607	421.10	592
104.00	1378	172.80	419	243.90	6736	421.90	432
104.90	1197	173.20	341	245.00	1060	422.90	2954
106.90	10058	174.10	1022	245.90	1600	423.90	730
108.00	1640	175.00	1654	246.80	289	438.20	162
108.90	583	176.10	523	248.80	278	441.00	6026
110.00	21064	177.00	561	253.00	242	441.90	41592
111.10	2567	178.90	2612	254.90	36368	443.00	8527
112.00	474	180.00	1747	255.80	5317	443.90	617
113.10	150	181.00	738	257.00	568		
116.00	1088	183.90	303	257.90	2413		
116.90	11461	184.90	1056	258.90	292		
117.90	602	186.00	10582	265.10	827		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: | Lab Sample ID: MB 660-136509/1-A

Matrix: Solid | Lab File ID: 1DD18011.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 15.01(g) | Date Analyzed: 04/18/2013 16:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18011.D
Lab Smp Id: MB 660-136509/1-A
Inj Date : 18-APR-2013 16:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-136509/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

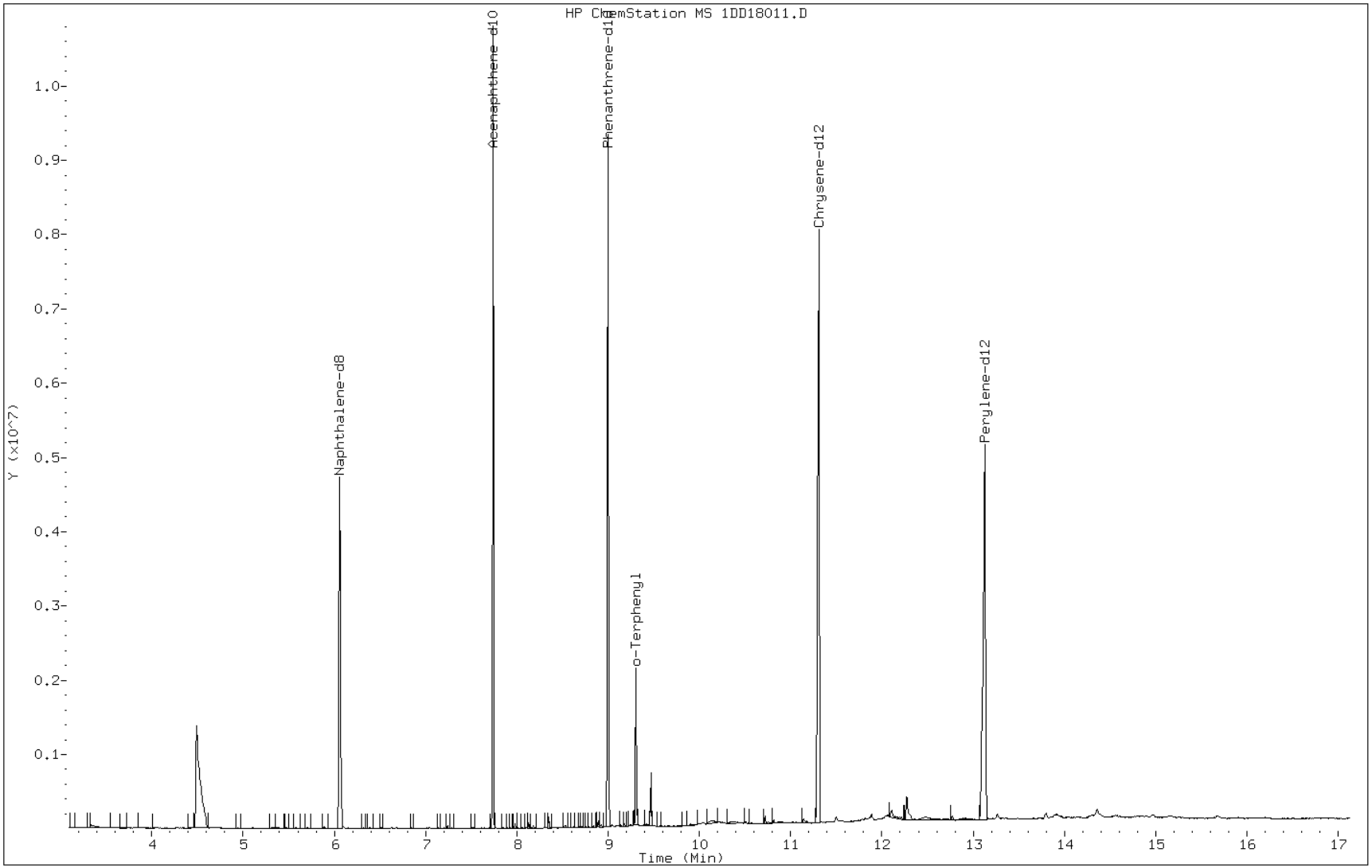
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.060	6.062	(1.000)	2930564	40.0000	
* 6 Acenaphthene-d10	164	7.740	7.742	(1.000)	1886399	40.0000	
* 9 Phenanthrene-d10	188	8.998	8.999	(1.000)	3195479	40.0000	
$ 13 o-Terphenyl	230	9.303	9.311	(1.034)	352436	7.31993	490
* 17 Chrysene-d12	240	11.307	11.314	(1.000)	3320115	40.0000	
* 22 Perylene-d12	264	13.128	13.130	(1.000)	3420795	40.0000	
10 Phenanthrene	178	9.015	9.017	(1.002)	2959	0.03362	2.2

Data File: 1DD18011.D

Date: 18-APR-2013 16:11

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-136509/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: | Lab Sample ID: LCS 660-136509/2-A

Matrix: Solid | Lab File ID: 1DD18012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 15.05(g) | Date Analyzed: 04/18/2013 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	370		100	20
208-96-8	Acenaphthylene	381		40	5.0
120-12-7	Anthracene	373		8.4	4.2
56-55-3	Benzo[a]anthracene	390		8.0	3.9
50-32-8	Benzo[a]pyrene	353		10	5.2
205-99-2	Benzo[b]fluoranthene	413		12	6.1
191-24-2	Benzo[g,h,i]perylene	369		20	4.4
207-08-9	Benzo[k]fluoranthene	390		8.0	3.6
218-01-9	Chrysene	377		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	407		20	4.1
206-44-0	Fluoranthene	407		20	4.0
86-73-7	Fluorene	391		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	382		20	7.1
90-12-0	1-Methylnaphthalene	406		40	4.4
91-57-6	2-Methylnaphthalene	401		40	7.1
91-20-3	Naphthalene	390		40	4.4
85-01-8	Phenanthrene	375		8.0	3.9
129-00-0	Pyrene	366		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18012.D
Lab Smp Id: LCS 660-136509/2-A
Inj Date : 18-APR-2013 16:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136509/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.061	6.062	(1.000)	2846987	40.0000	
* 6	Acenaphthene-d10	164	7.741	7.742	(1.000)	1823816	40.0000	
* 9	Phenanthrene-d10	188	8.999	8.999	(1.000)	3050717	40.0000	
$ 13	o-Terphenyl	230	9.304	9.311	(1.034)	272557	5.92950	390
* 17	Chrysene-d12	240	11.308	11.314	(1.000)	3271822	40.0000	
* 22	Perylene-d12	264	13.129	13.130	(1.000)	3286681	40.0000	
2	Naphthalene	128	6.078	6.085	(1.003)	415164	5.86694	390
3	2-Methylnaphthalene	142	6.783	6.790	(1.119)	275373	6.02831	400
4	1-Methylnaphthalene	142	6.877	6.884	(1.135)	263868	6.11687	410
5	Acenaphthylene	152	7.612	7.613	(0.983)	442119	5.72754	380
7	Acenaphthene	154	7.765	7.766	(1.003)	265281	5.56752	370
8	Fluorene	166	8.205	8.212	(1.060)	332035	5.88456	390
10	Phenanthrene	178	9.016	9.017	(1.002)	474021	5.64102	370
11	Anthracene	178	9.057	9.058	(1.007)	468147	5.61306	370

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.192	9.199	(1.022)	306480	4.16601	280(R)
14 Fluoranthene	202	9.997	10.004	(1.111)	529053	6.11820	410
15 Pyrene	202	10.185	10.192	(0.901)	541450	5.51080	370
16 Benzo(a)anthracene	228	11.290	11.291	(0.998)	554808	5.86509	390
18 Chrysene	228	11.331	11.338	(1.002)	503222	5.67353	380
19 Benzo(b)fluoranthene	252	12.577	12.583	(0.958)	509921	6.21082	410
20 Benzo(k)fluoranthene	252	12.612	12.625	(0.961)	508017	5.87338	390
21 Benzo(a)pyrene	252	13.023	13.036	(0.992)	437989	5.30938	350
23 Indeno(1,2,3-cd)pyrene	276	14.686	14.704	(1.119)	506276	5.75559	380(M)
24 Dibenzo(a,h)anthracene	278	14.715	14.734	(1.121)	507665	6.12878	410
25 Benzo(g,h,i)perylene	276	15.121	15.145	(1.152)	470200	5.55164	370

QC Flag Legend

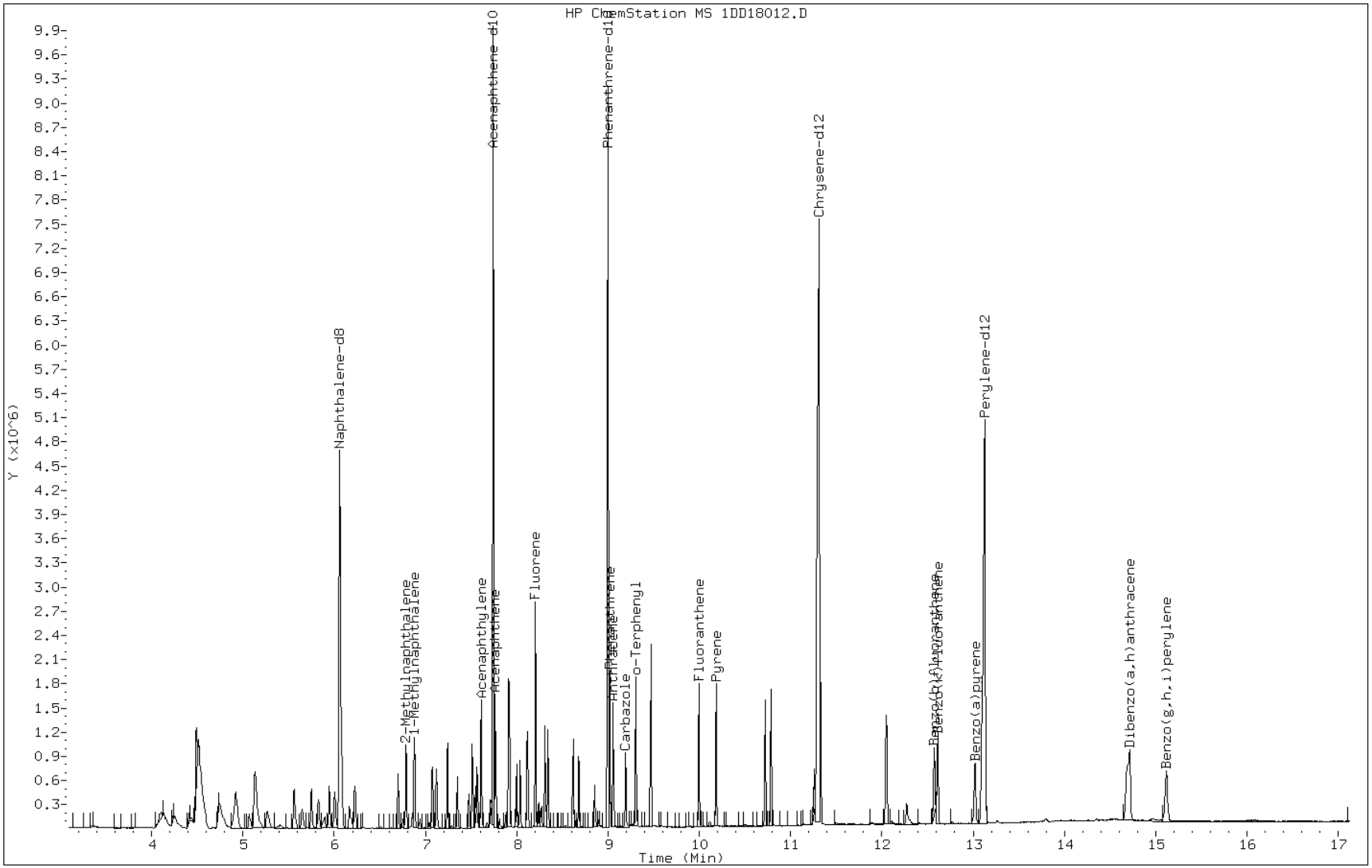
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD18012.D

Date: 18-APR-2013 16:33

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-136509/2-A Operator: SCC



Manual Integration Report

Data File: 1DD18012.D
Inj. Date and Time: 18-APR-2013 16:33
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

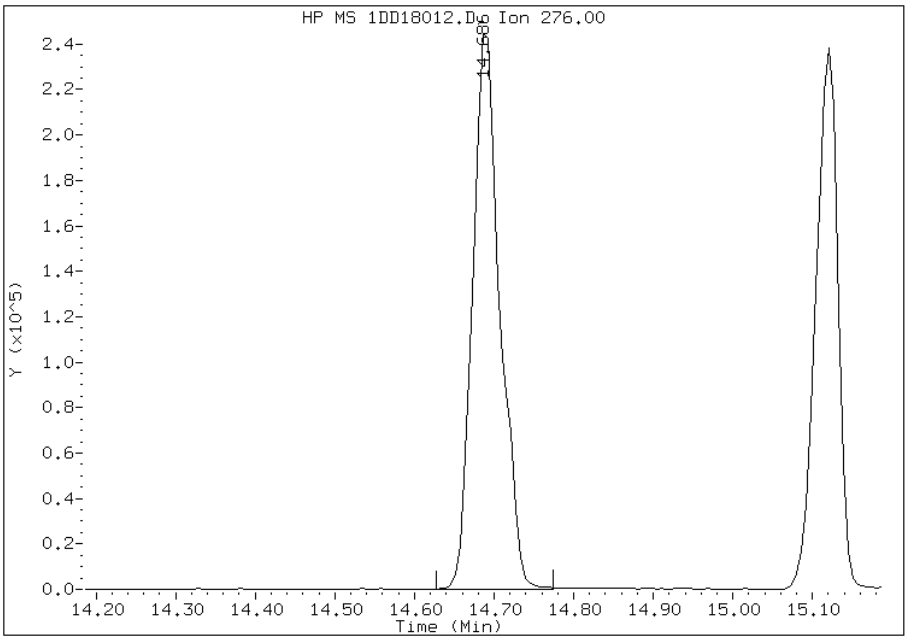
Processing Integration Results

RT: 14.69

Response: 582818

Amount: 7

Conc: 440



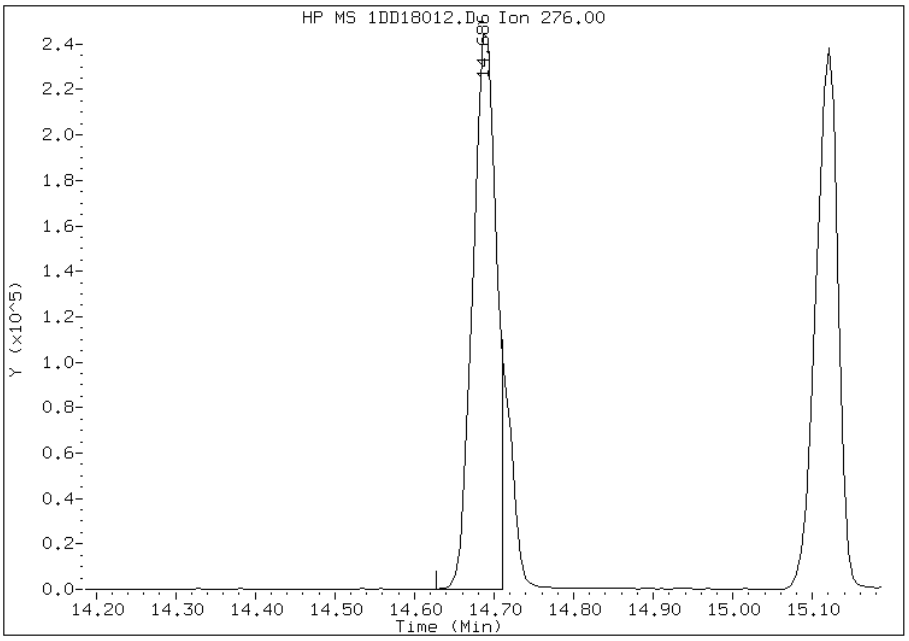
Manual Integration Results

RT: 14.69

Response: 506276

Amount: 6

Conc: 382



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: CV0637D-CS-SP MS | Lab Sample ID: 680-89220-9 MS

Matrix: Solid | Lab File ID: 1DD18022.D

Analysis Method: 8270C LL | Date Collected: 04/08/2013 15:20

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 14.73(g) | Date Analyzed: 04/18/2013 20:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	620		150	31
208-96-8	Acenaphthylene	716		61	7.6
120-12-7	Anthracene	750		13	6.4
56-55-3	Benzo[a]anthracene	796		12	6.0
50-32-8	Benzo[a]pyrene	750		16	7.9
205-99-2	Benzo[b]fluoranthene	1040		19	9.3
191-24-2	Benzo[g,h,i]perylene	591		31	6.7
207-08-9	Benzo[k]fluoranthene	808		12	5.5
218-01-9	Chrysene	821		14	6.9
53-70-3	Dibenz(a,h)anthracene	627		31	6.3
206-44-0	Fluoranthene	975		31	6.1
86-73-7	Fluorene	678		31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	641		31	11
90-12-0	1-Methylnaphthalene	700		61	6.7
91-57-6	2-Methylnaphthalene	691		61	11
91-20-3	Naphthalene	658		61	6.7
85-01-8	Phenanthrene	798		12	6.0
129-00-0	Pyrene	795		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18022.D
Lab Smp Id: 680-89220-A-9-B MS
Inj Date : 18-APR-2013 20:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89220-A-9-B MS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.730	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.066	6.062	(1.000)	2719465	40.0000	
* 6	Acenaphthene-d10	164	7.746	7.742	(1.000)	1706828	40.0000	
* 9	Phenanthrene-d10	188	9.004	8.999	(1.000)	2836439	40.0000	
$ 13	o-Terphenyl	230	9.309	9.311	(1.034)	283418	6.63157	450
* 17	Chrysene-d12	240	11.313	11.314	(1.000)	3077738	40.0000	
* 22	Perylene-d12	264	13.140	13.130	(1.000)	2876622	40.0000	
2	Naphthalene	128	6.084	6.085	(1.003)	437091	6.46645	440
3	2-Methylnaphthalene	142	6.789	6.790	(1.119)	296218	6.78872	460
4	1-Methylnaphthalene	142	6.883	6.884	(1.135)	283150	6.87165	470
5	Acenaphthylene	152	7.611	7.613	(0.983)	507697	7.02789	480
7	Acenaphthene	154	7.770	7.766	(1.003)	271561	6.08996	410
8	Fluorene	166	8.211	8.212	(1.060)	351802	6.66223	450
10	Phenanthrene	178	9.021	9.017	(1.002)	612485	7.83943	530
11	Anthracene	178	9.063	9.058	(1.007)	571027	7.36381	500

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.199	(1.022)	402304	5.88167	400
14 Fluoranthene	202	10.003	10.004	(1.111)	770025	9.57763	650
15 Pyrene	202	10.191	10.192	(0.901)	721596	7.80743	530
16 Benzo(a)anthracene	228	11.301	11.291	(0.999)	695610	7.81729	530
18 Chrysene	228	11.336	11.338	(1.002)	672950	8.06556	550
19 Benzo(b)fluoranthene	252	12.594	12.583	(0.958)	731537	10.1802	690
20 Benzo(k)fluoranthene	252	12.629	12.625	(0.961)	600433	7.93139	540
21 Benzo(a)pyrene	252	13.040	13.036	(0.992)	531750	7.36483	500
23 Indeno(1,2,3-cd)pyrene	276	14.715	14.704	(1.120)	484355	6.29131	430(M)
24 Dibenzo(a,h)anthracene	278	14.744	14.734	(1.122)	446686	6.16132	420
25 Benzo(g,h,i)perylene	276	15.150	15.145	(1.153)	430233	5.80387	390

QC Flag Legend

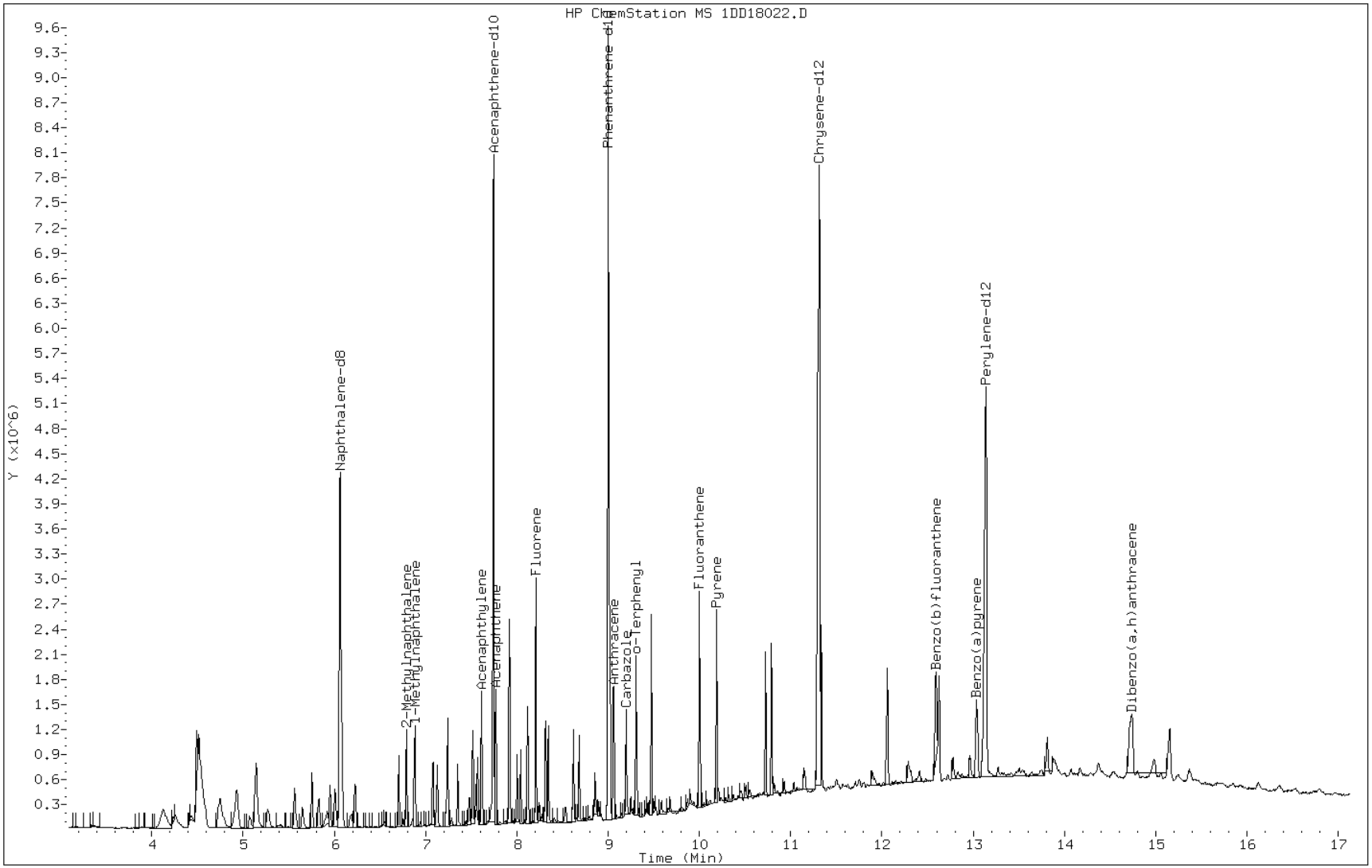
M - Compound response manually integrated.

Data File: 1DD18022.D

Date: 18-APR-2013 20:19

Client ID: Instrument: BSMSD.i

Sample Info: 680-89220-A-9-B MS Operator: SCC



Manual Integration Report

Data File: 1DD18022.D
Inj. Date and Time: 18-APR-2013 20:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

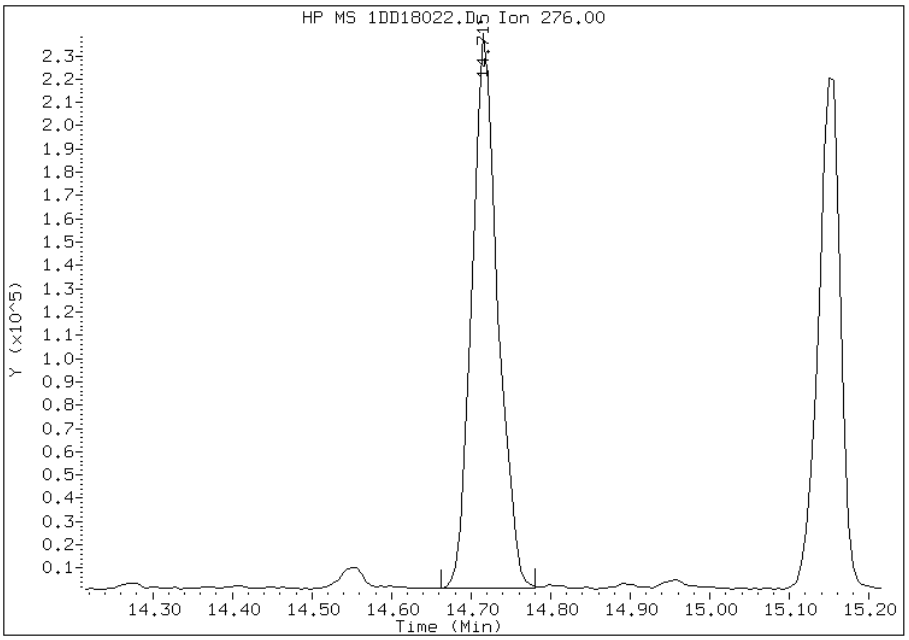
Processing Integration Results

RT: 14.72

Response: 537570

Amount: 7

Conc: 474



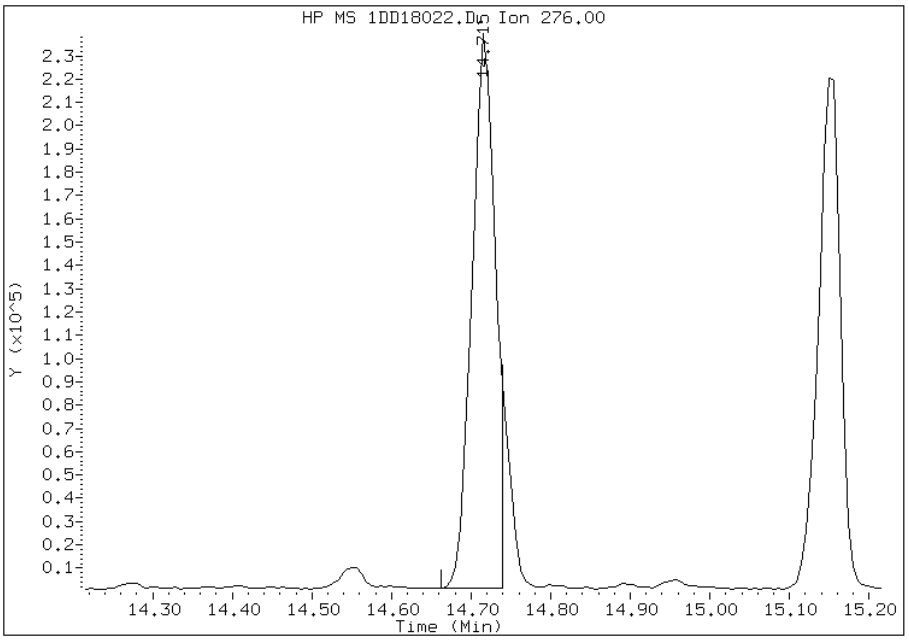
Manual Integration Results

RT: 14.72

Response: 484355

Amount: 6

Conc: 427



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89220-1

SDG No.: 68089220-1

Client Sample ID: CV0637D-CS-SP MSD | Lab Sample ID: 680-89220-9 MSD

Matrix: Solid | Lab File ID: 1DD18023.D

Analysis Method: 8270C LL | Date Collected: 04/08/2013 15:20

Extract. Method: 3546 | Date Extracted: 04/17/2013 08:42

Sample wt/vol: 15.01(g) | Date Analyzed: 04/18/2013 20:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 33.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	594		150	30
208-96-8	Acenaphthylene	693		60	7.5
120-12-7	Anthracene	692		13	6.3
56-55-3	Benzo[a]anthracene	826		12	5.8
50-32-8	Benzo[a]pyrene	793		16	7.8
205-99-2	Benzo[b]fluoranthene	1140		18	9.1
191-24-2	Benzo[g,h,i]perylene	557		30	6.6
207-08-9	Benzo[k]fluoranthene	834		12	5.4
218-01-9	Chrysene	873		13	6.7
53-70-3	Dibenz(a,h)anthracene	556		30	6.1
206-44-0	Fluoranthene	1120		30	6.0
86-73-7	Fluorene	636		30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	579		30	11
90-12-0	1-Methylnaphthalene	676		60	6.6
91-57-6	2-Methylnaphthalene	667		60	11
91-20-3	Naphthalene	656		60	6.6
85-01-8	Phenanthrene	861		12	5.8
129-00-0	Pyrene	892		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18023.D
Lab Smp Id: 680-89220-A-9-C MSD
Inj Date : 18-APR-2013 20:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89220-A-9-C MSD
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.067	6.062	(1.000)	2621063	40.0000	
* 6	Acenaphthene-d10	164	7.742	7.742	(1.000)	1650711	40.0000	
* 9	Phenanthrene-d10	188	9.005	8.999	(1.000)	2825627	40.0000	
$ 13	o-Terphenyl	230	9.310	9.311	(1.034)	306644	7.20248	480
* 17	Chrysene-d12	240	11.320	11.314	(1.000)	3003766	40.0000	
* 22	Perylene-d12	264	13.141	13.130	(1.000)	2720962	40.0000	
2	Naphthalene	128	6.085	6.085	(1.003)	427513	6.56220	440
3	2-Methylnaphthalene	142	6.790	6.790	(1.119)	280770	6.67626	440
4	1-Methylnaphthalene	142	6.884	6.884	(1.135)	268846	6.76946	450
5	Acenaphthylene	152	7.612	7.613	(0.983)	484230	6.93092	460
7	Acenaphthene	154	7.771	7.766	(1.004)	256431	5.94616	400
8	Fluorene	166	8.212	8.212	(1.061)	325018	6.36426	420
10	Phenanthrene	178	9.023	9.017	(1.002)	670847	8.61928	570
11	Anthracene	178	9.064	9.058	(1.007)	535137	6.92739	460

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.199	9.199	(1.022)	392844	5.76534	380
14 Fluoranthene	202	10.004	10.004	(1.111)	894177	11.1644	740
15 Pyrene	202	10.192	10.192	(0.900)	805009	8.92443	590
16 Benzo(a)anthracene	228	11.302	11.291	(0.998)	718093	8.26869	550
18 Chrysene	228	11.337	11.338	(1.002)	711593	8.73875	580
19 Benzo(b)fluoranthene	252	12.595	12.583	(0.958)	776980	11.4312	760
20 Benzo(k)fluoranthene	252	12.630	12.625	(0.961)	597774	8.34799	560
21 Benzo(a)pyrene	252	13.041	13.036	(0.992)	542096	7.93765	530
23 Indeno(1,2,3-cd)pyrene	276	14.716	14.704	(1.120)	422010	5.79510	390(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.734	(1.122)	381708	5.56626	370
25 Benzo(g,h,i)perylene	276	15.157	15.145	(1.153)	390876	5.57459	370

QC Flag Legend

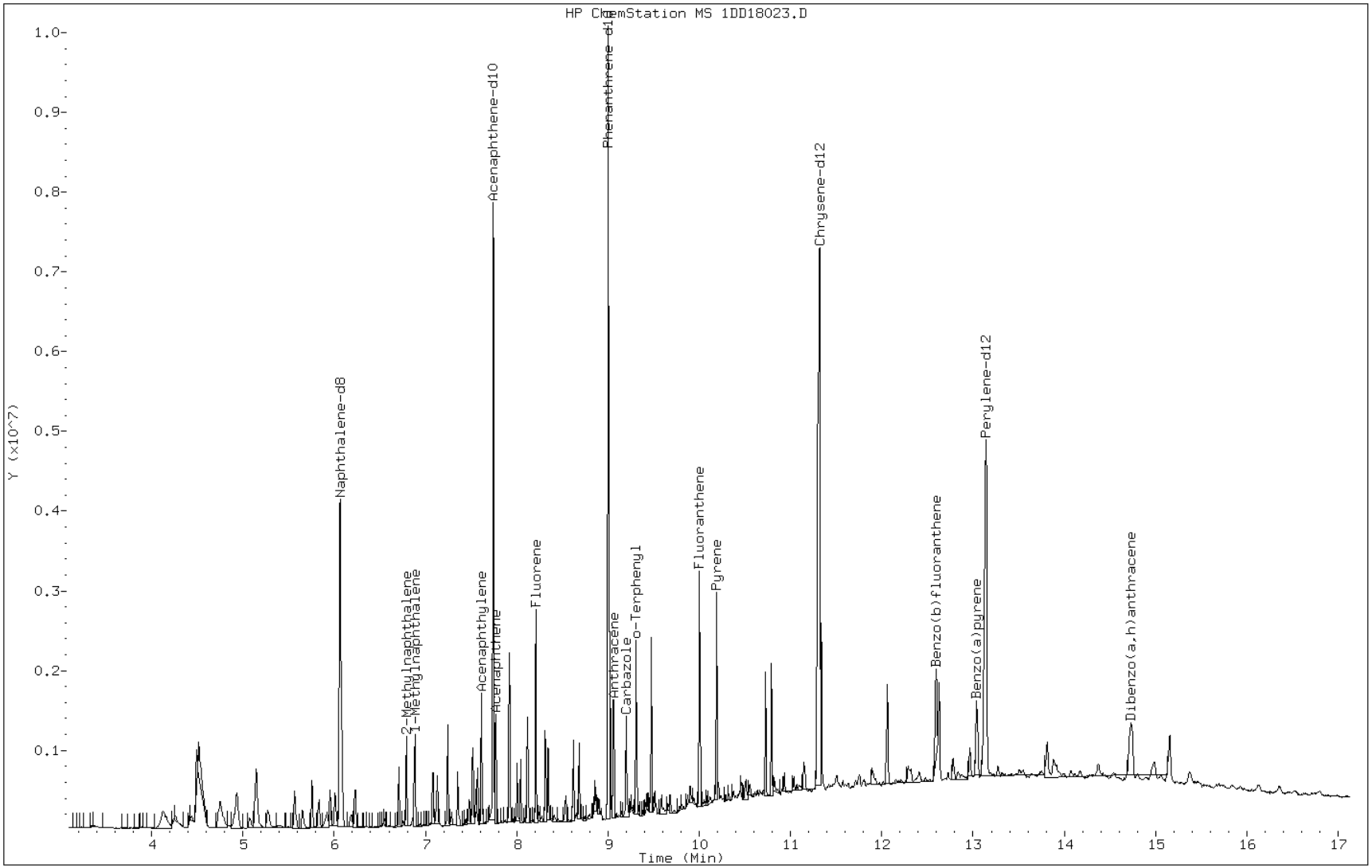
M - Compound response manually integrated.

Data File: 1DD18023.D

Date: 18-APR-2013 20:41

Client ID: Instrument: BSMSD.i

Sample Info: 680-89220-A-9-C MSD Operator: SCC



Manual Integration Report

Data File: 1DD18023.D
Inj. Date and Time: 18-APR-2013 20:41
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

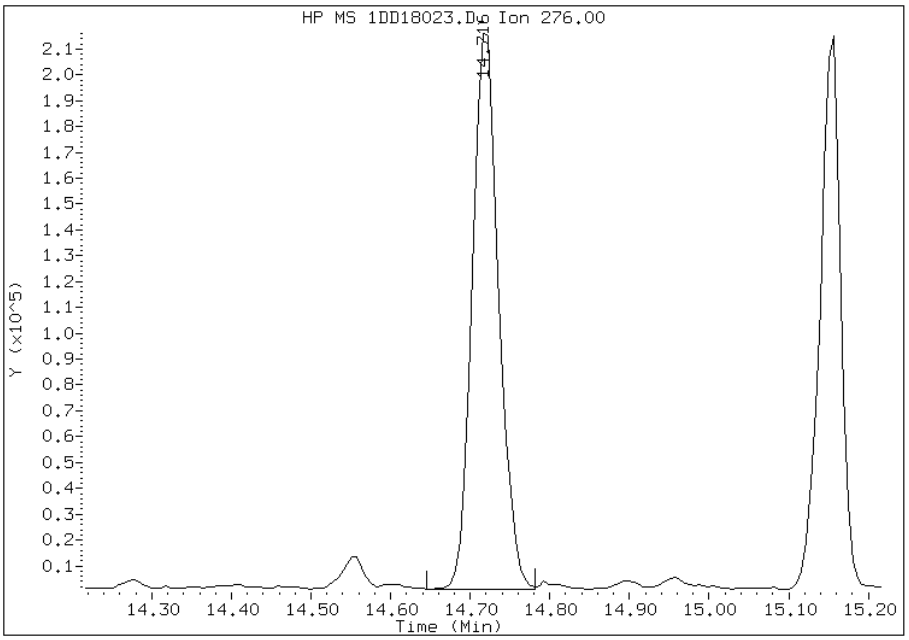
Processing Integration Results

RT: 14.72

Response: 496213

Amount: 7

Conc: 454



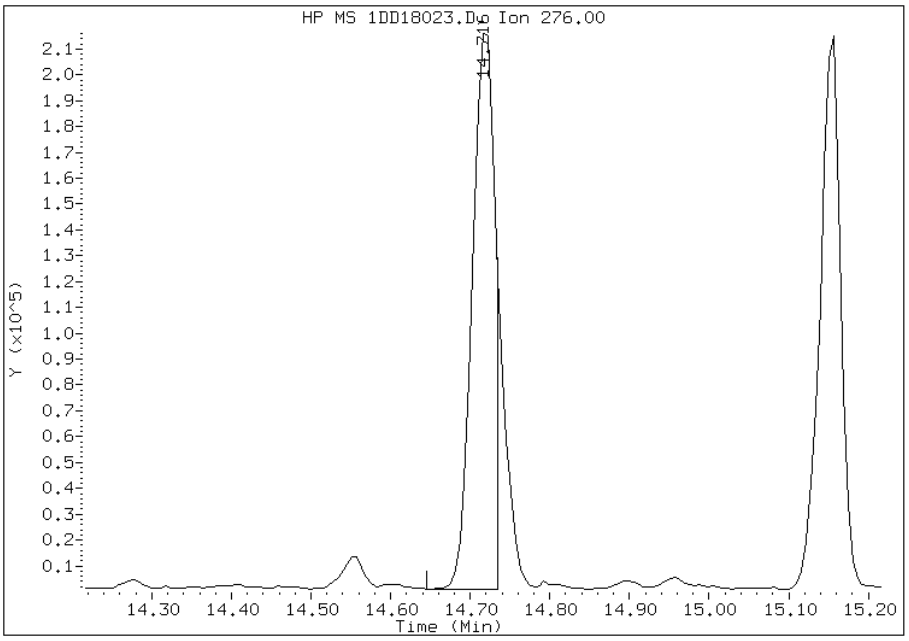
Manual Integration Results

RT: 14.72

Response: 422010

Amount: 6

Conc: 386



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 10:24
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04

Analysis Batch Number: 136164 End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250(um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250(um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250(um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250(um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250(um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250(um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250(um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250(um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250(um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250(um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250(um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250(um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Instrument ID: BSMD5973 Start Date: 04/18/2013 09:47

Analysis Batch Number: 136591 End Date: 04/19/2013 00:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/18/2013 09:47	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 10:10	1		DB-5MS 250(um)
DFTPP 660-136591/2		04/18/2013 10:34	1		DB-5MS 250(um)
DFTPP 660-136591/3		04/18/2013 10:59	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 12:56	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 13:18	1		DB-5MS 250(um)
DFTPP 660-136591/6		04/18/2013 13:43	1	1DD18005.D	DB-5MS 250(um)
CCVIS 660-136591/7		04/18/2013 14:03	1	1DD18006.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 14:27	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 14:50	4		DB-5MS 250(um)
ZZZZZ		04/18/2013 15:19	20		DB-5MS 250(um)
ZZZZZ		04/18/2013 15:48	100		DB-5MS 250(um)
MB 660-136509/1-A		04/18/2013 16:11	1	1DD18011.D	DB-5MS 250(um)
LCS 660-136509/2-A		04/18/2013 16:33	1	1DD18012.D	DB-5MS 250(um)
680-89220-1	CV0583A-CS	04/18/2013 16:56	1	1DD18013.D	DB-5MS 250(um)
680-89220-2	CV0583A-CSD	04/18/2013 17:19	1	1DD18014.D	DB-5MS 250(um)
680-89220-3	CV0583B-CS	04/18/2013 17:41	1	1DD18015.D	DB-5MS 250(um)
680-89220-4	CV0722A-CS	04/18/2013 18:04	1	1DD18016.D	DB-5MS 250(um)
680-89220-5	CV0722B-CS	04/18/2013 18:26	1	1DD18017.D	DB-5MS 250(um)
680-89220-6	CV0637A-CS-SP	04/18/2013 18:49	1	1DD18018.D	DB-5MS 250(um)
680-89220-7	CV0637B-CS-SP	04/18/2013 19:11	1	1DD18019.D	DB-5MS 250(um)
680-89220-8	CV0637C-CS-SP	04/18/2013 19:34	1	1DD18020.D	DB-5MS 250(um)
680-89220-9	CV0637D-CS-SP	04/18/2013 19:56	1	1DD18021.D	DB-5MS 250(um)
680-89220-9 MS	CV0637D-CS-SP MS	04/18/2013 20:19	1	1DD18022.D	DB-5MS 250(um)
680-89220-9 MSD	CV0637D-CS-SP MSD	04/18/2013 20:41	1	1DD18023.D	DB-5MS 250(um)
680-89220-10	FM0114A-CS-SP	04/18/2013 21:04	1	1DD18024.D	DB-5MS 250(um)
680-89220-11	FM0114B-CS-SP	04/18/2013 21:26	1	1DD18025.D	DB-5MS 250(um)
680-89220-12	FM0117A-CS-SP	04/18/2013 21:49	1	1DD18026.D	DB-5MS 250(um)
680-89220-13	FM0117B-CS-SP	04/18/2013 22:11	1	1DD18027.D	DB-5MS 250(um)
680-89220-14	FM0117C-CS-SP	04/18/2013 22:34	1	1DD18028.D	DB-5MS 250(um)
680-89220-15	FM0117D-GS-SP	04/18/2013 22:57	1	1DD18029.D	DB-5MS 250(um)
680-89220-16	CV1100A-CS	04/18/2013 23:19	1	1DD18030.D	DB-5MS 250(um)
680-89220-17	CV1099A-CS	04/18/2013 23:42	1	1DD18031.D	DB-5MS 250(um)
680-89220-18	CV1160A-CS	04/19/2013 00:04	1	1DD18032.D	DB-5MS 250(um)
680-89220-19	CV1160A-CSD	04/19/2013 00:27	4	1DD18033.D	DB-5MS 250(um)
680-89220-20	FM0062A-CS	04/19/2013 00:49	4	1DD18034.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Batch Number: 136509 Batch Start Date: 04/17/13 08:42 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/18/13 09:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136509/1		3546, 8270C LL		15.01 g	1 mL		1 mL		
LCS 660-136509/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL		
680-89220-A-1	CV0583A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89220-A-2	CV0583A-CSD	3546, 8270C LL	T	14.86 g	1 mL		1 mL		
680-89220-A-3	CV0583B-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-89220-A-4	CV0722A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89220-A-5	CV0722B-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-89220-A-6	CV0637A-CS-SP	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-89220-A-7	CV0637B-CS-SP	3546, 8270C LL	T	14.73 g	1 mL		1 mL		
680-89220-A-8	CV0637C-CS-SP	3546, 8270C LL	T	14.86 g	1 mL		1 mL		
680-89220-A-9	CV0637D-CS-SP	3546, 8270C LL	T	15.36 g	1 mL		1 mL		
680-89220-A-9 MS	CV0637D-CS-SP	3546, 8270C LL	T	14.73 g	1 mL	1 mL	1 mL		
680-89220-A-9 MSD	CV0637D-CS-SP	3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL		
680-89220-A-10	FM0114A-CS-SP	3546, 8270C LL	T	14.89 g	1 mL		1 mL		
680-89220-A-11	FM0114B-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89220-A-12	FM0117A-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-89220-A-13	FM0117B-CS-SP	3546, 8270C LL	T	15.31 g	1 mL		1 mL		
680-89220-A-14	FM0117C-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89220-A-15	FM0117D-GS-SP	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-89220-A-16	CV1100A-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-89220-A-17	CV1099A-CS	3546, 8270C LL	T	14.81 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Batch Number: 136509 Batch Start Date: 04/17/13 08:42 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/18/13 09:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
680-89220-A-18	CV1160A-CS	3546, 8270C LL	T	14.73 g	1 mL		1 mL		
680-89220-A-19	CV1160A-CSD	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-89220-A-20	FM0062A-CS	3546, 8270C LL	T	14.83 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-M CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 67
Microwave Start Time	10:00 4/17/13
Microwave Stop Time	10:35 4/17/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89220-1

SDG No.: 68089220-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0583A-CS	680-89220-1
CV0583A-CSD	680-89220-2
CV0583B-CS	680-89220-3
CV0722A-CS	680-89220-4
CV0722B-CS	680-89220-5
CV0637A-CS-SP	680-89220-6
CV0637B-CS-SP	680-89220-7
CV0637C-CS-SP	680-89220-8
CV0637D-CS-SP	680-89220-9
FM0114A-CS-SP	680-89220-10
FM0114B-CS-SP	680-89220-11
FM0117A-CS-SP	680-89220-12
FM0117B-CS-SP	680-89220-13
FM0117C-CS-SP	680-89220-14
FM0117D-GS-SP	680-89220-15
CV1100A-CS	680-89220-16
CV1099A-CS	680-89220-17
CV1160A-CS	680-89220-18
CV1160A-CSD	680-89220-19
FM0062A-CS	680-89220-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89220-1

SDG Number: 68089220-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89220-1

SDG Number: 68089220-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-89220-1

SDG No.: 68089220-1

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/16/2013 06:43   End Date: 04/16/2013 06:43

Lab Sample ID	D/F	Type	Time	Analytes: Moist
680-89220-3	1	T	06:43	X
680-89220-2	1	T	06:43	X
680-89220-5	1	T	06:43	X
ZZZZZZ			06:43	
ZZZZZZ			06:43	
680-89220-12	1	T	06:43	X
680-89220-20	1	T	06:43	X
680-89220-16	1	T	06:43	X
680-89220-17	1	T	06:43	X
680-89220-11	1	T	06:43	X
680-89220-18	1	T	06:43	X
ZZZZZZ			06:43	
680-89220-15	1	T	06:43	X
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
680-89220-13	1	T	06:43	X
680-89220-4	1	T	06:43	X
ZZZZZZ			06:43	
680-89220-6	1	T	06:43	X
680-89220-10	1	T	06:43	X
680-89220-7	1	T	06:43	X
680-89220-1	1	T	06:43	X
680-89220-19	1	T	06:43	X
ZZZZZZ			06:43	
ZZZZZZ			06:43	
680-89220-14	1	T	06:43	X
ZZZZZZ			06:43	
ZZZZZZ			06:43	
680-89220-8	1	T	06:43	X
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
ZZZZZZ			06:43	
680-89220-9	1	T	06:43	X

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/16/2013 06:43 End Date: 04/16/2013 06:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
680-89220-9 MS	1	T	06:43	X																			
680-89220-9 MSD	1	T	06:43	X																			
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Batch Number: 136459 Batch Start Date: 04/16/13 06:43 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89220-A-3	CV0583B-CS	Moisture	T	1	0 g	5.14 g	3.72 g		
680-89220-A-2	CV0583A-CSD	Moisture	T	2	0 g	5.65 g	3.86 g		
680-89220-A-5	CV0722B-CS	Moisture	T	3	0 g	5.06 g	3.57 g		
680-89220-A-12	FM0117A-CS-SP	Moisture	T	6	0 g	4.53 g	3.03 g		
680-89220-A-20	FM0062A-CS	Moisture	T	7	0 g	4.63 g	3.44 g		
680-89220-A-16	CV1100A-CS	Moisture	T	8	0 g	5.29 g	4.10 g		
680-89220-A-17	CV1099A-CS	Moisture	T	9	0 g	4.98 g	3.07 g		
680-89220-A-11	FM0114B-CS-SP	Moisture	T	10	0 g	4.41 g	2.83 g		
680-89220-A-18	CV1160A-CS	Moisture	T	11	0 g	4.21 g	2.43 g		
680-89220-A-15	FM0117D-GS-SP	Moisture	T	13	0 g	4.35 g	2.58 g		
680-89220-A-13	FM0117B-CS-SP	Moisture	T	19	0 g	4.08 g	2.77 g		
680-89220-A-4	CV0722A-CS	Moisture	T	20	0 g	4.23 g	3.34 g		
680-89220-A-6	CV0637A-CS-SP	Moisture	T	22	0 g	4.31 g	2.57 g		
680-89220-A-10	FM0114A-CS-SP	Moisture	T	23	0 g	4.26 g	3.34 g		
680-89220-A-7	CV0637B-CS-SP	Moisture	T	24	0 g	4.27 g	3.00 g		
680-89220-A-1	CV0583A-CS	Moisture	T	25	0 g	4.94 g	3.40 g		
680-89220-A-19	CV1160A-CSD	Moisture	T	26	0 g	4.80 g	3.55 g		
680-89220-A-14	FM0117C-CS-SP	Moisture	T	29	0 g	4.64 g	3.34 g		
680-89220-A-8	CV0637C-CS-SP	Moisture	T	32	0 g	4.24 g	2.75 g		
680-89220-A-9	CV0637D-CS-SP	Moisture	T	42	0 g	4.23 g	2.82 g		
680-89220-A-9 MS	CV0637D-CS-SP	Moisture	T	42	0 g	4.23 g	2.82 g		
680-89220-A-9 MSD	CV0637D-CS-SP	Moisture	T	42	0 g	4.23 g	2.82 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.16.13
Date samples were removed from oven	4.17.13

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89220-1

SDG No.: 68089220-1

Batch Number: 136459 Batch Start Date: 04/16/13 06:43 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 63551

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

◯ **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005145-1356	AL	1	4

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ◯
DATE DUE ______
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE ______
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — REQUIRED ANALYSIS — PRESERVATIVE — NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8LPAH	RCRA 8 Metals								REMARKS
4-8-13	1340	CVØ583A-CS	X		C			X									
	1340	CVØ583A-CSD	X		C			X									
	1350	CVØ583B-CS	X		C			X									
	1425	CVØ722A-CS	X		C			X									
	1435	CVØ722B-CS	X		C			X									
	1530	CVØ637A-CS-SP	X		C			X									
	1545	CVØ637B-CS-SP	X		C			X									
	1536	CVØ637C-CS-SP	X		C			X									
	1520	CVØ637D-CS-SP	X		C			X	X								
	1325	FMØ114A-CS-SP	X		C			X									
	1333	FMØ114B-CS-SP	X		C			X									
	1408	FMØ117A-CS-SP	X		C			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/11/13	1045	YES ◯ NO ◯		680-89220	2.2°C

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04/22/2013

TAL8240-680 (1008)

Serial Number 59231

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005481356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 24 PAH	REQUIRED ANALYSIS: RCRA 8 Metals	REMARKS
4-8-13	1426	FM Ø117B-CS-SP	C		X			X		
	1416	FM Ø117C-CS-SP	C		X			X		
	1434	FM Ø117D-GS-SP	G		X			X		
4-9-13	1420	CV11ØØA-CS	C		X			X	X	
	1440	CV1099A-CS	C		X			X	X	
	1335	CV1160A-CS	C		X			X		
	1335	CV1160A-CSD	C		X			X		
	1020	FMØØ62A-CS	C		X			X		
	0930	FMØ147A-CS	C		X			X		
	Ø94Ø	FMØ147B-CS	C		X			X		
	0910	FM Ø249A-CS	C		X			X		
	0840	FM Ø252H-CS	C		X			X		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Hanlin	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/11/13	1045	YES ○ NO ○		680-89220	2-2 C

Page 538 of 540

04/22/2013

TAL8240-680 (1008)

Serial Number 63551

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200514S - 1356	AZ

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 4

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 14 PAH	REQUIRED ANALYSIS: RCRA 8 metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE									
4-8-13	1340	CV ϕ583A-CS	X		C			X			
	1340	CV ϕ583A-CSD	X		C			X			
	1350	CV ϕ583B-CS	X		C			X			
	1425	CV ϕ722A-CS	X		C			X			
	1435	CV ϕ722B-CS	X		C			X			
	1530	CV ϕ637A-CS-SP	X		C			X			
	1545	CV ϕ637B-CS-SP	X		C			X			
	1536	CV ϕ637C-CS-SP	X		C			X			
	1520	CV ϕ637D-CS-SP	X		C			X	X		
	1325	FM ϕ114A-CS-SP	X		C			X			
	1333	FM ϕ114B-CS-SP	X		C			X			
	1408	FM ϕ117A-CS-SP	X		C			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/11/13	1045	YES ◯ NO ◯		680-89220	2-2 C

TAL8240-680 (1008)

Serial Number 59231

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 12 PAH	RCRA 8 metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								PRESERVATIVE			
4-8-13	1426	FM Ø117B-CS-SP	C		X			X			
	1416	FM Ø117C-CS-SP	C		X			X			
	1434	FM Ø117D-GS-SP	G		X			X			
4-9-13	1420	CV11ØØA-CS	C		X			X	X		
	1440	CV1099A-CS	C		X			X	X		
	1335	CV1160A-CS	C		X			X			
	1335	CV1160A-CSD	C		X			X			
	1020	FMØØ62A-CS	C		X			X			
	0930	FMØ147A-CS	C		X			X			
	0940	FMØ147B-CS	C		X			X			
	0910	FM Ø249A-CS	C		X			X			
	0840	FM Ø252H-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Hanslin	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	04/11/13	1045	YES ○ NO ○		680-89220	2-2 C

TAL8240-680 (1008)

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4/22/2013

Serial Number 59231

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005481356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 24 PAH	RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE:									
4-8-13	1426	FM Ø117B-CS-SP	C		X			X			
	1416	FMØ117C-CS-SP	C		X			X			
	1434	FMØ117D-GS-SP	G		X			X			
4-9-13	1420	CV11ØØA-CS	C		X			X	X		
	1440	CV1099A-CS	C		X			X	X		
	1335	CV1160A-CS	C		X			X			
	1335	CV1160A-CSD	C		X			X			
	1020	FMØØ62A-CS	C		X			X			
	0930	FMØ147A-CS	C		X			X			
	0940	FMØ147B-CS	C		X			X			
	0910	FM Ø249A-CS	C		X			X			
	0840	FMØ252H-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Hanlin	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/11/13	1045	YES ○ NO ○		680-89220	2-2 C

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04/22/2013

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-1
SDG Number: 68089220-1

Login Number: 89220
List Source: TestAmerica Savannah
List Number: 1
Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-1
SDG Number: 68089220-1

Login Number: 89220
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/15/13 04:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Samples delayed by FedEx and Arrived out of Temperature
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-89220-1
TestAmerica Sample Delivery Group: 68089220-1
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
4/22/2013 4:28:57 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-89220-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89220-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/11/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0583A-CS (680-89220-1), CV0583A-CSD (680-89220-2), CV0583B-CS (680-89220-3), CV0722A-CS (680-89220-4), CV0722B-CS (680-89220-5), CV0637A-CS-SP (680-89220-6), CV0637B-CS-SP (680-89220-7), CV0637C-CS-SP (680-89220-8), CV0637D-CS-SP (680-89220-9), FM0114A-CS-SP (680-89220-10), FM0114B-CS-SP (680-89220-11), FM0117A-CS-SP (680-89220-12), FM0117B-CS-SP (680-89220-13), FM0117C-CS-SP (680-89220-14), FM0117D-GS-SP (680-89220-15), CV1100A-CS (680-89220-16), CV1099A-CS (680-89220-17), CV1160A-CS (680-89220-18), CV1160A-CSD (680-89220-19) and FM0062A-CS (680-89220-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013 and 04/19/2013.

Samples CV1160A-CSD (680-89220-19)[4X] and FM0062A-CS (680-89220-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89220-1	CV0583A-CS	Solid	04/08/13 13:40	04/11/13 10:45
680-89220-2	CV0583A-CSD	Solid	04/08/13 13:40	04/11/13 10:45
680-89220-3	CV0583B-CS	Solid	04/08/13 13:50	04/11/13 10:45
680-89220-4	CV0722A-CS	Solid	04/08/13 14:25	04/11/13 10:45
680-89220-5	CV0722B-CS	Solid	04/08/13 14:35	04/11/13 10:45
680-89220-6	CV0637A-CS-SP	Solid	04/08/13 15:30	04/11/13 10:45
680-89220-7	CV0637B-CS-SP	Solid	04/08/13 15:45	04/11/13 10:45
680-89220-8	CV0637C-CS-SP	Solid	04/08/13 15:36	04/11/13 10:45
680-89220-9	CV0637D-CS-SP	Solid	04/08/13 15:20	04/11/13 10:45
680-89220-10	FM0114A-CS-SP	Solid	04/08/13 13:25	04/11/13 10:45
680-89220-11	FM0114B-CS-SP	Solid	04/08/13 13:33	04/11/13 10:45
680-89220-12	FM0117A-CS-SP	Solid	04/08/13 14:08	04/11/13 10:45
680-89220-13	FM0117B-CS-SP	Solid	04/08/13 14:26	04/11/13 10:45
680-89220-14	FM0117C-CS-SP	Solid	04/08/13 14:16	04/11/13 10:45
680-89220-15	FM0117D-GS-SP	Solid	04/08/13 14:34	04/11/13 10:45
680-89220-16	CV1100A-CS	Solid	04/09/13 14:20	04/11/13 10:45
680-89220-17	CV1099A-CS	Solid	04/09/13 14:40	04/11/13 10:45
680-89220-18	CV1160A-CS	Solid	04/09/13 13:35	04/11/13 10:45
680-89220-19	CV1160A-CSD	Solid	04/09/13 13:35	04/11/13 10:45
680-89220-20	FM0062A-CS	Solid	04/09/13 10:20	04/11/13 10:45

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV0583A-CS

Lab Sample ID: 680-89220-1

Date Collected: 04/08/13 13:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 68.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Acenaphthylene	**7.5**	**J**	58	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Anthracene	**11**	**J**	12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[a]anthracene	**56**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[a]pyrene	**55**		15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[b]fluoranthene	**120**		18	8.9	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[g,h,i]perylene	**57**		29	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Benzo[k]fluoranthene	**28**		12	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Chrysene	**93**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Dibenz(a,h)anthracene	**19**	**J**	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Fluoranthene	**82**		29	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Fluorene	29	U	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Indeno[1,2,3-cd]pyrene	**48**		29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
1-Methylnaphthalene	**26**	**J**	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
2-Methylnaphthalene	**33**	**J**	58	10	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Naphthalene	**41**	**J**	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Phenanthrene	**73**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1
Pyrene	**61**		29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/17/13 08:42*	*04/18/13 16:56*	*1*

Client Sample ID: CV0583A-CSD

Lab Sample ID: 680-89220-2

Date Collected: 04/08/13 13:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 68.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Acenaphthylene	**11**	**J**	59	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Anthracene	**18**		12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[a]anthracene	**80**		12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[a]pyrene	**79**		15	7.7	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[b]fluoranthene	**170**		18	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[g,h,i]perylene	**72**		30	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Benzo[k]fluoranthene	**43**		12	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Chrysene	**120**		13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Dibenz(a,h)anthracene	**26**	**J**	30	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Fluoranthene	**120**		30	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Fluorene	**6.6**	**J**	30	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Indeno[1,2,3-cd]pyrene	**66**		30	10	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
1-Methylnaphthalene	**43**	**J**	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
2-Methylnaphthalene	**55**	**J**	59	10	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Naphthalene	**67**		59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Phenanthrene	**91**		12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1
Pyrene	**81**		30	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*33*		*30 - 130*	*04/17/13 08:42*	*04/18/13 17:19*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV0583B-CS

Lab Sample ID: 680-89220-3

Date Collected: 04/08/13 13:50
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 72.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Acenaphthylene	**17**	**J**	55	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Anthracene	**23**		12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[a]anthracene	**92**		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[a]pyrene	**72**		14	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[b]fluoranthene	**130**		17	8.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[g,h,i]perylene	**54**		28	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Benzo[k]fluoranthene	**44**		11	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Chrysene	**110**		12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Dibenz(a,h)anthracene	**22**	**J**	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Fluoranthene	**130**		28	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Fluorene	28	U	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Indeno[1,2,3-cd]pyrene	**51**		28	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
1-Methylnaphthalene	**28**	**J**	55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
2-Methylnaphthalene	**33**	**J**	55	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Naphthalene	**38**	**J**	55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Phenanthrene	**92**		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1
Pyrene	**95**		28	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/17/13 08:42*	*04/18/13 17:41*	*1*

Client Sample ID: CV0722A-CS

Lab Sample ID: 680-89220-4

Date Collected: 04/08/13 14:25
Date Received: 04/11/13 10:45

Matrix: Solid
Percent Solids: 79.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Acenaphthylene	**9.7**	**J**	51	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Anthracene	**22**		11	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[a]anthracene	**390**		10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[a]pyrene	**590**		13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[b]fluoranthene	**1300**		16	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[g,h,i]perylene	**540**		25	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Benzo[k]fluoranthene	**350**		10	4.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Chrysene	**570**		11	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Dibenz(a,h)anthracene	**220**		25	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Fluoranthene	**340**		25	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Fluorene	**8.7**	**J**	25	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Indeno[1,2,3-cd]pyrene	**490**		25	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
1-Methylnaphthalene	**47**	**J**	51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
2-Methylnaphthalene	**63**		51	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Naphthalene	**56**		51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Phenanthrene	**130**		10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1
Pyrene	**300**		25	4.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*04/17/13 08:42*	*04/18/13 18:04*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV0722B-CS

Lab Sample ID: 680-89220-5
Date Collected: 04/08/13 14:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 70.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Acenaphthylene	56	U	56	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Anthracene	**8.9**	**J**	12	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[a]anthracene	**130**		11	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[a]pyrene	**200**		15	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[b]fluoranthene	**400**		17	8.5	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[g,h,i]perylene	**170**		28	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Benzo[k]fluoranthene	**110**		11	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Chrysene	**180**		13	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Dibenz(a,h)anthracene	**59**		28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Fluoranthene	**120**		28	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Fluorene	28	U	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Indeno[1,2,3-cd]pyrene	**150**		28	9.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
1-Methylnaphthalene	**14**	**J**	56	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
2-Methylnaphthalene	**17**	**J**	56	9.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Naphthalene	**20**	**J**	56	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Phenanthrene	**47**		11	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1
Pyrene	**100**		28	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/17/13 08:42*	*04/18/13 18:26*	*1*

Client Sample ID: CV0637A-CS-SP

Lab Sample ID: 680-89220-6
Date Collected: 04/08/13 15:30
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 59.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Acenaphthylene	**9.6**	**J**	67	8.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Anthracene	**14**		14	7.1	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[a]anthracene	**52**		13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[a]pyrene	**39**		18	8.8	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[b]fluoranthene	**77**		21	10	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[g,h,i]perylene	**35**		34	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Benzo[k]fluoranthene	**25**		13	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Chrysene	**67**		15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Dibenz(a,h)anthracene	**11**	**J**	34	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Fluoranthene	**78**		34	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Fluorene	34	U	34	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Indeno[1,2,3-cd]pyrene	**27**	**J**	34	12	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
1-Methylnaphthalene	**18**	**J**	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
2-Methylnaphthalene	**20**	**J**	67	12	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Naphthalene	**17**	**J**	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Phenanthrene	**60**		13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1
Pyrene	**58**		34	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*04/17/13 08:42*	*04/18/13 18:49*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV0637B-CS-SP

Lab Sample ID: 680-89220-7
Date Collected: 04/08/13 15:45
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 70.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Acenaphthylene	**16**	**J**	58	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Anthracene	**18**		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[a]anthracene	**44**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[a]pyrene	**42**		15	7.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[b]fluoranthene	**88**		18	8.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[g,h,i]perylene	**43**		29	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Benzo[k]fluoranthene	**21**		12	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Chrysene	**63**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Dibenz(a,h)anthracene	**16**	**J**	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Fluoranthene	**71**		29	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Fluorene	29	U	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Indeno[1,2,3-cd]pyrene	**33**		29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
1-Methylnaphthalene	**20**	**J**	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
2-Methylnaphthalene	**26**	**J**	58	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Naphthalene	**28**	**J**	58	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Phenanthrene	**55**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1
Pyrene	**49**		29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/17/13 08:42*	*04/18/13 19:11*	*1*

Client Sample ID: CV0637C-CS-SP

Lab Sample ID: 680-89220-8
Date Collected: 04/08/13 15:36
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 64.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Acenaphthylene	**15**	**J**	62	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Anthracene	**28**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[a]anthracene	**120**		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[a]pyrene	**92**		16	8.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[b]fluoranthene	**170**		19	9.5	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[g,h,i]perylene	**65**		31	6.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Benzo[k]fluoranthene	**51**		12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Chrysene	**170**		14	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Dibenz(a,h)anthracene	**24**	**J**	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Fluoranthene	**190**		31	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Fluorene	**11**	**J**	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Indeno[1,2,3-cd]pyrene	**49**		31	11	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
1-Methylnaphthalene	**150**		62	6.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
2-Methylnaphthalene	**130**		62	11	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Naphthalene	**92**		62	6.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Phenanthrene	**210**		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1
Pyrene	**150**		31	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 08:42*	*04/18/13 19:34*	*1*

Client Sample ID: CV0637D-CS-SP

Lab Sample ID: 680-89220-9

Date Collected: 04/08/13 15:20
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 66.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Acenaphthylene	**86**		59	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Anthracene	**91**		12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[a]anthracene	**150**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[a]pyrene	**160**		15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[b]fluoranthene	**350**		18	8.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[g,h,i]perylene	**150**		29	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Benzo[k]fluoranthene	**120**		12	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Chrysene	**230**		13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Dibenz(a,h)anthracene	**52**		29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Fluoranthene	**330**		29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Fluorene	**20**	**J**	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Indeno[1,2,3-cd]pyrene	**120**		29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
1-Methylnaphthalene	**59**		59	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
2-Methylnaphthalene	**73**		59	10	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Naphthalene	**84**		59	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Phenanthrene	**230**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1
Pyrene	**220**		29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/17/13 08:42*	*04/18/13 19:56*	*1*

Client Sample ID: FM0114A-CS-SP

Lab Sample ID: 680-89220-10

Date Collected: 04/08/13 13:25
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 78.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Acenaphthylene	**8.3**	**J**	51	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Anthracene	**11**		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[a]anthracene	**54**		10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[a]pyrene	**41**		13	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[b]fluoranthene	**86**		16	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[g,h,i]perylene	**27**		26	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Benzo[k]fluoranthene	**24**		10	4.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Chrysene	**68**		12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Dibenz(a,h)anthracene	**9.6**	**J**	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Fluoranthene	**85**		26	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Fluorene	26	U	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Indeno[1,2,3-cd]pyrene	**24**	**J**	26	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
1-Methylnaphthalene	**20**	**J**	51	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
2-Methylnaphthalene	**30**	**J**	51	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Naphthalene	**31**	**J**	51	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Phenanthrene	**51**		10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1
Pyrene	**67**		26	4.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/17/13 08:42*	*04/18/13 21:04*	*1*

Client Sample ID: FM0114B-CS-SP

Lab Sample ID: 680-89220-11

Date Collected: 04/08/13 13:33
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 64.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Acenaphthylene	**13**	**J**	62	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Anthracene	**22**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[a]anthracene	**64**		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[a]pyrene	**67**		16	8.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[b]fluoranthene	**130**		19	9.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[g,h,i]perylene	**34**		31	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Benzo[k]fluoranthene	**46**		12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Chrysene	**87**		14	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Dibenz(a,h)anthracene	**13**	**J**	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Fluoranthene	**100**		31	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Fluorene	31	U	31	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Indeno[1,2,3-cd]pyrene	**35**		31	11	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
1-Methylnaphthalene	**19**	**J**	62	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
2-Methylnaphthalene	**26**	**J**	62	11	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Naphthalene	**26**	**J**	62	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Phenanthrene	**64**		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1
Pyrene	**85**		31	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 08:42*	*04/18/13 21:26*	*1*

Client Sample ID: FM0117A-CS-SP

Lab Sample ID: 680-89220-12

Date Collected: 04/08/13 14:08
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 66.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Acenaphthylene	**26**	**J**	59	7.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Anthracene	**29**		12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[a]anthracene	**93**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[a]pyrene	**98**		15	7.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[b]fluoranthene	**210**		18	9.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[g,h,i]perylene	**65**		29	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Benzo[k]fluoranthene	**54**		12	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Chrysene	**130**		13	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Dibenz(a,h)anthracene	**21**	**J**	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Fluoranthene	**160**		29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Fluorene	29	U	29	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Indeno[1,2,3-cd]pyrene	**57**		29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
1-Methylnaphthalene	**21**	**J**	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
2-Methylnaphthalene	**32**	**J**	59	10	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Naphthalene	**35**	**J**	59	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Phenanthrene	**71**		12	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1
Pyrene	**120**		29	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*04/17/13 08:42*	*04/18/13 21:49*	*1*

Client Sample ID: FM0117B-CS-SP

Lab Sample ID: 680-89220-13

Date Collected: 04/08/13 14:26
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 67.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Acenaphthylene	**11**	**J**	58	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Anthracene	**15**		12	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[a]anthracene	**32**		12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[a]pyrene	**42**		15	7.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[b]fluoranthene	**90**		18	8.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[g,h,i]perylene	**23**	**J**	29	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Benzo[k]fluoranthene	**31**		12	5.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Chrysene	**60**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Dibenz(a,h)anthracene	**8.9**	**J**	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Fluoranthene	**46**		29	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Fluorene	29	U	29	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Indeno[1,2,3-cd]pyrene	**22**	**J**	29	10	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
1-Methylnaphthalene	**17**	**J**	58	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
2-Methylnaphthalene	**25**	**J**	58	10	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Naphthalene	**27**	**J**	58	6.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Phenanthrene	**34**		12	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1
Pyrene	**40**		29	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 08:42*	*04/18/13 22:11*	*1*

Client Sample ID: FM0117C-CS-SP

Lab Sample ID: 680-89220-14

Date Collected: 04/08/13 14:16
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 72.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Acenaphthylene	55	U	55	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Anthracene	**7.1**	**J**	12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[a]anthracene	**38**		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[a]pyrene	**38**		14	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[b]fluoranthene	**69**		17	8.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[g,h,i]perylene	**20**	**J**	28	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Benzo[k]fluoranthene	**23**		11	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Chrysene	**47**		12	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Dibenz(a,h)anthracene	**6.6**	**J**	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Fluoranthene	**53**		28	5.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Fluorene	28	U	28	5.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Indeno[1,2,3-cd]pyrene	**19**	**J**	28	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
1-Methylnaphthalene	**10**	**J**	55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
2-Methylnaphthalene	**16**	**J**	55	9.8	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Naphthalene	**17**	**J**	55	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Phenanthrene	**26**		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1
Pyrene	**40**		28	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/17/13 08:42*	*04/18/13 22:34*	*1*

Client Sample ID: FM0117D-GS-SP

Lab Sample ID: 680-89220-15

Date Collected: 04/08/13 14:34
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 59.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Acenaphthylene	**9.2**	**J**	67	8.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Anthracene	**15**		14	7.0	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[a]anthracene	**58**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[a]pyrene	**52**		17	8.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[b]fluoranthene	**110**		20	10	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[g,h,i]perylene	**29**	**J**	33	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Benzo[k]fluoranthene	**34**		13	6.0	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Chrysene	**79**		15	7.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Dibenz(a,h)anthracene	**12**	**J**	33	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Fluoranthene	**110**		33	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Fluorene	33	U	33	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Indeno[1,2,3-cd]pyrene	**29**	**J**	33	12	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
1-Methylnaphthalene	**19**	**J**	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
2-Methylnaphthalene	**36**	**J**	67	12	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Naphthalene	**40**	**J**	67	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Phenanthrene	**58**		13	6.5	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1
Pyrene	**81**		33	6.2	ug/Kg	☼	04/17/13 08:42	04/18/13 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*36*		*30 - 130*	*04/17/13 08:42*	*04/18/13 22:57*	*1*

Client Sample ID: CV1100A-CS

Lab Sample ID: 680-89220-16

Date Collected: 04/09/13 14:20
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 77.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Acenaphthylene	**19**	**J**	51	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Anthracene	**29**		11	5.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[a]anthracene	**110**		10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[a]pyrene	**94**		13	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[b]fluoranthene	**190**		16	7.8	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[g,h,i]perylene	**59**		26	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Benzo[k]fluoranthene	**50**		10	4.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Chrysene	**180**		12	5.8	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Dibenz(a,h)anthracene	**22**	**J**	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Fluoranthene	**160**		26	5.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Fluorene	**7.8**	**J**	26	5.3	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Indeno[1,2,3-cd]pyrene	**46**		26	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
1-Methylnaphthalene	**240**		51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
2-Methylnaphthalene	**260**		51	9.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Naphthalene	**160**		51	5.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Phenanthrene	**220**		10	5.0	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1
Pyrene	**140**		26	4.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/17/13 08:42*	*04/18/13 23:19*	*1*

Client Sample ID: CV1099A-CS

Lab Sample ID: 680-89220-17

Date Collected: 04/09/13 14:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 61.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Acenaphthylene	**9.2**	**J**	66	8.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Anthracene	**14**		14	6.9	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[a]anthracene	**51**		13	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[a]pyrene	**47**		17	8.5	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[b]fluoranthene	**92**		20	10	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[g,h,i]perylene	**25**	**J**	33	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Benzo[k]fluoranthene	**27**		13	5.9	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Chrysene	**82**		15	7.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Dibenz(a,h)anthracene	**13**	**J**	33	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Fluoranthene	**76**		33	6.6	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Indeno[1,2,3-cd]pyrene	**21**	**J**	33	12	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
1-Methylnaphthalene	**77**		66	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
2-Methylnaphthalene	**91**		66	12	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Naphthalene	**61**	**J**	66	7.2	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Phenanthrene	**80**		13	6.4	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1
Pyrene	**65**		33	6.1	ug/Kg	☼	04/17/13 08:42	04/18/13 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*04/17/13 08:42*	*04/18/13 23:42*	*1*

Client Sample ID: CV1160A-CS

Lab Sample ID: 680-89220-18

Date Collected: 04/09/13 13:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 57.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Acenaphthylene	71	U	71	8.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Anthracene	**32**		15	7.4	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[a]anthracene	**160**		14	6.9	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[a]pyrene	**160**		18	9.2	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[b]fluoranthene	**270**		22	11	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[g,h,i]perylene	**74**		35	7.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Benzo[k]fluoranthene	**100**		14	6.4	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Chrysene	**180**		16	7.9	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Dibenz(a,h)anthracene	**30**	**J**	35	7.2	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Fluoranthene	**280**		35	7.1	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Fluorene	**15**	**J**	35	7.2	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Indeno[1,2,3-cd]pyrene	**75**		35	13	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
1-Methylnaphthalene	**36**	**J**	71	7.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
2-Methylnaphthalene	**38**	**J**	71	13	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Naphthalene	**37**	**J**	71	7.8	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Phenanthrene	**180**		14	6.9	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1
Pyrene	**210**		35	6.5	ug/Kg	☼	04/17/13 08:42	04/19/13 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/17/13 08:42*	*04/19/13 00:04*	*1*

Client Sample ID: CV1160A-CSD

Lab Sample ID: 680-89220-19

Date Collected: 04/09/13 13:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 74.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	380	J	540	110	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Acenaphthylene	38	J	210	27	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Anthracene	440		45	23	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[a]anthracene	1700		43	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[a]pyrene	1600		56	28	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[b]fluoranthene	2900		66	33	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[g,h,i]perylene	660		110	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Benzo[k]fluoranthene	890		43	19	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Chrysene	1800		48	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Dibenz(a,h)anthracene	270		110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Fluoranthene	3300		110	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Fluorene	230		110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Indeno[1,2,3-cd]pyrene	730		110	38	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
1-Methylnaphthalene	250		210	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
2-Methylnaphthalene	310		210	38	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Naphthalene	360		210	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Phenanthrene	2400		43	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4
Pyrene	2300		110	20	ug/Kg	☼	04/17/13 08:42	04/19/13 00:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/17/13 08:42*	*04/19/13 00:27*	*4*

Client Sample ID: FM0062A-CS

Lab Sample ID: 680-89220-20

Date Collected: 04/09/13 10:20
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 74.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Acenaphthylene	240		220	27	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Anthracene	360		46	23	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[a]anthracene	1500		44	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[a]pyrene	1600		57	28	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[b]fluoranthene	2900		66	33	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[g,h,i]perylene	750		110	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Benzo[k]fluoranthene	1000		44	20	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Chrysene	1600		49	25	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Dibenz(a,h)anthracene	300		110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Fluoranthene	2700		110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Fluorene	78	J	110	22	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Indeno[1,2,3-cd]pyrene	760		110	39	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
1-Methylnaphthalene	72	J	220	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
2-Methylnaphthalene	130	J	220	39	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Naphthalene	420		220	24	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Phenanthrene	890		44	21	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4
Pyrene	2000		110	20	ug/Kg	☼	04/17/13 08:42	04/19/13 00:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/17/13 08:42*	*04/19/13 00:49*	*4*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 660-136509/1-A
Matrix: Solid
Analysis Batch: 136591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Fluorene	20	U	20	4.1	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Naphthalene	40	U	40	4.4	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/17/13 08:42	04/18/13 16:11	1
Pyrene	20	U	20	3.7	ug/Kg		04/17/13 08:42	04/18/13 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/17/13 08:42*	*04/18/13 16:11*	*1*

Lab Sample ID: LCS 660-136509/2-A
Matrix: Solid
Analysis Batch: 136591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	370		ug/Kg		56	39 - 130
Acenaphthylene	664	381		ug/Kg		57	38 - 130
Anthracene	664	373		ug/Kg		56	37 - 130
Benzo[a]anthracene	664	390		ug/Kg		59	40 - 130
Benzo[a]pyrene	664	353		ug/Kg		53	49 - 130
Benzo[b]fluoranthene	664	413		ug/Kg		62	37 - 130
Benzo[g,h,i]perylene	664	369		ug/Kg		56	32 - 130
Benzo[k]fluoranthene	664	390		ug/Kg		59	32 - 130
Chrysene	664	377		ug/Kg		57	41 - 130
Dibenz(a,h)anthracene	664	407		ug/Kg		61	27 - 130
Fluoranthene	664	407		ug/Kg		61	40 - 130
Fluorene	664	391		ug/Kg		59	40 - 130
Indeno[1,2,3-cd]pyrene	664	382		ug/Kg		58	30 - 130
1-Methylnaphthalene	664	406		ug/Kg		61	31 - 130
2-Methylnaphthalene	664	401		ug/Kg		60	33 - 130
Naphthalene	664	390		ug/Kg		59	36 - 130
Phenanthrene	664	375		ug/Kg		56	42 - 130
Pyrene	664	366		ug/Kg		55	44 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-136509/2-A
Matrix: Solid
Analysis Batch: 136591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136509

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	59		30 - 130

Lab Sample ID: 680-89220-9 MS
Matrix: Solid
Analysis Batch: 136591

Client Sample ID: CV0637D-CS-SP
Prep Type: Total/NA
Prep Batch: 136509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	150	U	1020	620		ug/Kg	☼	61	39 - 130
Acenaphthylene	86		1020	716		ug/Kg	☼	62	38 - 130
Anthracene	91		1020	750		ug/Kg	☼	65	37 - 130
Benzo[a]anthracene	150		1020	796		ug/Kg	☼	63	40 - 130
Benzo[a]pyrene	160		1020	750		ug/Kg	☼	58	49 - 130
Benzo[b]fluoranthene	350		1020	1040		ug/Kg	☼	68	37 - 130
Benzo[g,h,i]perylene	150		1020	591		ug/Kg	☼	43	32 - 130
Benzo[k]fluoranthene	120		1020	808		ug/Kg	☼	67	32 - 130
Chrysene	230		1020	821		ug/Kg	☼	58	41 - 130
Dibenz(a,h)anthracene	52		1020	627		ug/Kg	☼	57	27 - 130
Fluoranthene	330		1020	975		ug/Kg	☼	64	40 - 130
Fluorene	20	J	1020	678		ug/Kg	☼	65	40 - 130
Indeno[1,2,3-cd]pyrene	120		1020	641		ug/Kg	☼	51	30 - 130
1-Methylnaphthalene	59		1020	700		ug/Kg	☼	63	31 - 130
2-Methylnaphthalene	73		1020	691		ug/Kg	☼	61	33 - 130
Naphthalene	84		1020	658		ug/Kg	☼	56	36 - 130
Phenanthrene	230		1020	798		ug/Kg	☼	56	42 - 130
Pyrene	220		1020	795		ug/Kg	☼	57	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	66		30 - 130

Lab Sample ID: 680-89220-9 MSD
Matrix: Solid
Analysis Batch: 136591

Client Sample ID: CV0637D-CS-SP
Prep Type: Total/NA
Prep Batch: 136509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	150	U	999	594		ug/Kg	☼	59	39 - 130	4	40
Acenaphthylene	86		999	693		ug/Kg	☼	61	38 - 130	3	40
Anthracene	91		999	692		ug/Kg	☼	60	37 - 130	8	40
Benzo[a]anthracene	150		999	826		ug/Kg	☼	67	40 - 130	4	40
Benzo[a]pyrene	160		999	793		ug/Kg	☼	63	49 - 130	6	40
Benzo[b]fluoranthene	350		999	1140		ug/Kg	☼	80	37 - 130	10	40
Benzo[g,h,i]perylene	150		999	557		ug/Kg	☼	40	32 - 130	6	40
Benzo[k]fluoranthene	120		999	834		ug/Kg	☼	71	32 - 130	3	40
Chrysene	230		999	873		ug/Kg	☼	64	41 - 130	6	40
Dibenz(a,h)anthracene	52		999	556		ug/Kg	☼	50	27 - 130	12	40
Fluoranthene	330		999	1120		ug/Kg	☼	79	40 - 130	13	40
Fluorene	20	J	999	636		ug/Kg	☼	62	40 - 130	6	40
Indeno[1,2,3-cd]pyrene	120		999	579		ug/Kg	☼	46	30 - 130	10	40
1-Methylnaphthalene	59		999	676		ug/Kg	☼	62	31 - 130	3	40

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-89220-9 MSD
Matrix: Solid
Analysis Batch: 136591

Client Sample ID: CV0637D-CS-SP
Prep Type: Total/NA
Prep Batch: 136509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	73		999	667		ug/Kg	☼	59	33 - 130	4	40
Naphthalene	84		999	656		ug/Kg	☼	57	36 - 130	0	40
Phenanthrene	230		999	861		ug/Kg	☼	63	42 - 130	8	40
Pyrene	220		999	892		ug/Kg	☼	68	44 - 130	11	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*72*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-1	CV0583A-CS	Total/NA	Solid	3546	
680-89220-2	CV0583A-CSD	Total/NA	Solid	3546	
680-89220-3	CV0583B-CS	Total/NA	Solid	3546	
680-89220-4	CV0722A-CS	Total/NA	Solid	3546	
680-89220-5	CV0722B-CS	Total/NA	Solid	3546	
680-89220-6	CV0637A-CS-SP	Total/NA	Solid	3546	
680-89220-7	CV0637B-CS-SP	Total/NA	Solid	3546	
680-89220-8	CV0637C-CS-SP	Total/NA	Solid	3546	
680-89220-9	CV0637D-CS-SP	Total/NA	Solid	3546	
680-89220-9 MS	CV0637D-CS-SP	Total/NA	Solid	3546	
680-89220-9 MSD	CV0637D-CS-SP	Total/NA	Solid	3546	
680-89220-10	FM0114A-CS-SP	Total/NA	Solid	3546	
680-89220-11	FM0114B-CS-SP	Total/NA	Solid	3546	
680-89220-12	FM0117A-CS-SP	Total/NA	Solid	3546	
680-89220-13	FM0117B-CS-SP	Total/NA	Solid	3546	
680-89220-14	FM0117C-CS-SP	Total/NA	Solid	3546	
680-89220-15	FM0117D-GS-SP	Total/NA	Solid	3546	
680-89220-16	CV1100A-CS	Total/NA	Solid	3546	
680-89220-17	CV1099A-CS	Total/NA	Solid	3546	
680-89220-18	CV1160A-CS	Total/NA	Solid	3546	
680-89220-19	CV1160A-CSD	Total/NA	Solid	3546	
680-89220-20	FM0062A-CS	Total/NA	Solid	3546	
LCS 660-136509/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136509/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-1	CV0583A-CS	Total/NA	Solid	8270C LL	136509
680-89220-2	CV0583A-CSD	Total/NA	Solid	8270C LL	136509
680-89220-3	CV0583B-CS	Total/NA	Solid	8270C LL	136509
680-89220-4	CV0722A-CS	Total/NA	Solid	8270C LL	136509
680-89220-5	CV0722B-CS	Total/NA	Solid	8270C LL	136509
680-89220-6	CV0637A-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-7	CV0637B-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-8	CV0637C-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-9	CV0637D-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-9 MS	CV0637D-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-9 MSD	CV0637D-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-10	FM0114A-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-11	FM0114B-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-12	FM0117A-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-13	FM0117B-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-14	FM0117C-CS-SP	Total/NA	Solid	8270C LL	136509
680-89220-15	FM0117D-GS-SP	Total/NA	Solid	8270C LL	136509
680-89220-16	CV1100A-CS	Total/NA	Solid	8270C LL	136509
680-89220-17	CV1099A-CS	Total/NA	Solid	8270C LL	136509
680-89220-18	CV1160A-CS	Total/NA	Solid	8270C LL	136509
680-89220-19	CV1160A-CSD	Total/NA	Solid	8270C LL	136509
680-89220-20	FM0062A-CS	Total/NA	Solid	8270C LL	136509
LCS 660-136509/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136509
MB 660-136509/1-A	Method Blank	Total/NA	Solid	8270C LL	136509

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

General Chemistry

Analysis Batch: 136459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89220-1	CV0583A-CS	Total/NA	Solid	Moisture	
680-89220-2	CV0583A-CSD	Total/NA	Solid	Moisture	
680-89220-3	CV0583B-CS	Total/NA	Solid	Moisture	
680-89220-4	CV0722A-CS	Total/NA	Solid	Moisture	
680-89220-5	CV0722B-CS	Total/NA	Solid	Moisture	
680-89220-6	CV0637A-CS-SP	Total/NA	Solid	Moisture	
680-89220-7	CV0637B-CS-SP	Total/NA	Solid	Moisture	
680-89220-8	CV0637C-CS-SP	Total/NA	Solid	Moisture	
680-89220-9	CV0637D-CS-SP	Total/NA	Solid	Moisture	
680-89220-9 MS	CV0637D-CS-SP	Total/NA	Solid	Moisture	
680-89220-9 MSD	CV0637D-CS-SP	Total/NA	Solid	Moisture	
680-89220-10	FM0114A-CS-SP	Total/NA	Solid	Moisture	
680-89220-11	FM0114B-CS-SP	Total/NA	Solid	Moisture	
680-89220-12	FM0117A-CS-SP	Total/NA	Solid	Moisture	
680-89220-13	FM0117B-CS-SP	Total/NA	Solid	Moisture	
680-89220-14	FM0117C-CS-SP	Total/NA	Solid	Moisture	
680-89220-15	FM0117D-GS-SP	Total/NA	Solid	Moisture	
680-89220-16	CV1100A-CS	Total/NA	Solid	Moisture	
680-89220-17	CV1099A-CS	Total/NA	Solid	Moisture	
680-89220-18	CV1160A-CS	Total/NA	Solid	Moisture	
680-89220-19	CV1160A-CSD	Total/NA	Solid	Moisture	
680-89220-20	FM0062A-CS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV0583A-CS

Lab Sample ID: 680-89220-1
Date Collected: 04/08/13 13:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 68.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 16:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0583A-CSD

Lab Sample ID: 680-89220-2
Date Collected: 04/08/13 13:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 68.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 17:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0583B-CS

Lab Sample ID: 680-89220-3
Date Collected: 04/08/13 13:50
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 17:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0722A-CS

Lab Sample ID: 680-89220-4
Date Collected: 04/08/13 14:25
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 18:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0722B-CS

Lab Sample ID: 680-89220-5
Date Collected: 04/08/13 14:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 18:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0637A-CS-SP

Lab Sample ID: 680-89220-6
Date Collected: 04/08/13 15:30
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 18:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0637B-CS-SP

Lab Sample ID: 680-89220-7
Date Collected: 04/08/13 15:45
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 19:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0637C-CS-SP

Lab Sample ID: 680-89220-8
Date Collected: 04/08/13 15:36
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 64.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 19:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV0637D-CS-SP

Lab Sample ID: 680-89220-9
Date Collected: 04/08/13 15:20
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 66.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 19:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0114A-CS-SP

Lab Sample ID: 680-89220-10
Date Collected: 04/08/13 13:25
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 21:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0114B-CS-SP

Lab Sample ID: 680-89220-11
Date Collected: 04/08/13 13:33
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 21:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0117A-CS-SP

Lab Sample ID: 680-89220-12
Date Collected: 04/08/13 14:08
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 66.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 21:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0117B-CS-SP

Lab Sample ID: 680-89220-13
Date Collected: 04/08/13 14:26
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 67.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 22:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0117C-CS-SP

Lab Sample ID: 680-89220-14
Date Collected: 04/08/13 14:16
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 22:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0117D-GS-SP

Lab Sample ID: 680-89220-15
Date Collected: 04/08/13 14:34
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 59.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 22:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Client Sample ID: CV1100A-CS

Lab Sample ID: 680-89220-16
Date Collected: 04/09/13 14:20
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 23:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV1099A-CS

Lab Sample ID: 680-89220-17
Date Collected: 04/09/13 14:40
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 61.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/18/13 23:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV1160A-CS

Lab Sample ID: 680-89220-18
Date Collected: 04/09/13 13:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 57.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136591	04/19/13 00:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: CV1160A-CSD

Lab Sample ID: 680-89220-19
Date Collected: 04/09/13 13:35
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136591	04/19/13 00:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Client Sample ID: FM0062A-CS

Lab Sample ID: 680-89220-20
Date Collected: 04/09/13 10:20
Matrix: Solid
Date Received: 04/11/13 10:45
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136509	04/17/13 08:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136591	04/19/13 00:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136459	04/16/13 06:43	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 63551

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200514S - 1356	AZ

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

MATRIX TYPE — INDICATE: COMPOSITE (C) OR GRAB (G); AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 14 PAH; RCRA 8 metals

PRESERVATIVE

PAGE 1 OF 4

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-8-13	1340	CV ϕ583A-CS	X		C			X	
	1340	CV ϕ583A-CSD	X		C			X	
	1350	CV ϕ583B-CS	X		C			X	
	1425	CV ϕ722A-CS	X		C			X	
	1435	CV ϕ722B-CS	X		C			X	
	1530	CV ϕ637A-CS-SP	X		C			X	
	1545	CV ϕ637B-CS-SP	X		C			X	
	1536	CV ϕ637C-CS-SP	X		C			X	
	1520	CV ϕ637D-CS-SP	X		C			X	X
	1325	FM ϕ114A-CS-SP	X		C			X	
	1333	FM ϕ114B-CS-SP	X		C			X	
	1408	FM ϕ117A-CS-SP	X		C			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LAB LOG NO.	LABORATORY REMARKS
[signature]	04/11/13	1045	YES ◯ NO ◯		680-89220	2-2 C

TAL8240-680 (1008)

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4/22/2013

Serial Number 59231

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 12 PAH	RCRA 8 metals	PRESERVATIVE	REMARKS
4-8-13	1426	FM Ø117B-CS-SP	C		X			X			
	1416	FM Ø117C-CS-SP	C		X			X			
	1434	FM Ø117D-GS-SP	G		X			X			
4-9-13	1420	CV11ØØA-CS	C		X			X	X		
	1440	CV1099A-CS	C		X			X	X		
	1335	CV1160A-CS	C		X			X			
	1335	CV1160A-CSD	C		X			X			
	1020	FMØØ62A-CS	C		X			X			
	0930	FMØ147A-CS	C		X			X			
	0940	FMØ147B-CS	C		X			X			
	0910	FM Ø249A-CS	C		X			X			
	0840	FM Ø252H-CS	C		X			X			

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Hanlin	4-10-13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/11/13	1045	YES ○ NO ○		680-89220	2-2 C

TAL8240-680 (1008)

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4/22/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-1
SDG Number: 68089220-1

Login Number: 89220
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89220-1
SDG Number: 68089220-1

Login Number: 89220
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/15/13 04:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Samples delayed by FedEx and Arrived out of Temperature
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89220-1
SDG: 68089220-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14