REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-90855-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	05/30/2013
Reviewer:	Karen Marie Trujillo, URS Group, Inc.	Date:	06/27/2013
Concurrence[2]:	Jenine Abbassi/Martha Meyers-Lee, URS Group, Inc.	Date:	06/30/2013

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.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
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?	✓			MB 660-138117/1-A: Phenanthrene @ 4.36 J µg/Kg (RL 8.0, MDL 3.9)	

[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
11. Were target analytes detected in equipment/rinsate blanks?			✓	A rinsate blank was not collected for the week of 5/27/13.	
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. However, a rinsate blank, was **not** collected during the week of 5/27/13.	
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)	✓			Phenanthrene blank contamination action level (BCAL)[3] is 21.8 µg/Kg (4.36 µg/Kg x 5). Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount found in the sample.	U
14. Is a field duplicate associated with this Job?	✓			• CV0185A-CSD (680-90855-2) is a field duplicate of CV0185A-CS (680-90855-1). • FM0308A-CSD (680-90855-10) is a field duplicate of FM0308A-CS (680-90855-9). • FM0097A-CSD (680-90855-17) is a field duplicate of FM0097AB-CS (680-90855-16).	
15. Was precision deemed acceptable as defined by the project plans?	✓			Refer to **Attachment B** (Field Duplicate Evaluation)	
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.	✓				
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.	✓			• Instrument ID: BSMC5973 • Initial Calibration: 05/22/2013 • ICV: 05/22/13 @ 18:24 • CCV: 06/07/13 @ 12:13 • Instrument ID: BSMD5973 • Initial Calibration: 05/23/2013 • ICV: 05/23/13 @ 15:41	

[3] BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.				• CCV: 06/07/13 @ 12:17 • CCV: 06/11/13 @ 12:00	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with 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	✓				
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 138117: 680-90855-3 (CV1017A-CS), MS/MSD • Prep Batch 138156: 680-90855-21 (Batch sample) MS/MSD. Lab sample 680-90855-21 is a project-specific sample (CV1285A-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90855-2. • Prep Batch 138190: 680-91068-12 (Batch sample) MS/MSD. Lab sample 680-91068-12 is a project-specific sample (CV0027A-CS-SP) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-91068-1.	
25. Were MS/MSD recoveries within laboratory/project		✓		CV1017A-CS (680-90855-3):	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
specifications? *Only QC results for project samples are evaluated that are reported under this Job ID 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				• Benzo[a]anthracene @ 23 and 18%R (40-130). J Flag sample result. • Benzo[a]pyrene @ 33 and 24%R (49-130). J Flag sample result. • Benzo[b]fluoranthene @ 14 and 40%R (37-130). Qualification of data not required[4]. • Chrysene @ 27 and 25%R (41-130). J Flag sample result. • Fluoranthene @ 4 and -0.4%R (40-130). J Flag sample result. • Phenanthrene @ 10 and 18%R (42-130). J Flag sample result. • Pyrene @ -2 and -10%R (44-130). J Flag sample result.	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated that are reported under this Job ID 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	✓				

[4] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment C** (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: 680-90855-1
SDG: 68090855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90855-1	CV0185A-CS	Solid	05/30/13 08:50	05/31/13 08:53
680-90855-2	CV0185A-CSD	Solid	05/30/13 08:50	05/31/13 08:53
680-90855-3	CV1017A-CS	Solid	05/30/13 09:40	05/31/13 08:53
680-90855-4	CV1025A-CS	Solid	05/30/13 10:15	05/31/13 08:53
680-90855-5	CV1029A-CS	Solid	05/30/13 10:30	05/31/13 08:53
680-90855-6	CV1112A-CS	Solid	05/30/13 10:36	05/31/13 08:53
680-90855-7	CV1167A-CS	Solid	05/30/13 10:59	05/31/13 08:53
680-90855-8	CV1167B-CS	Solid	05/30/13 11:03	05/31/13 08:53
680-90855-9	FM0308A-CS	Solid	05/30/13 08:56	05/31/13 08:53
680-90855-10	FM0308A-CSD	Solid	05/30/13 08:56	05/31/13 08:53
680-90855-11	FM0308B-CS	Solid	05/30/13 09:20	05/31/13 08:53
680-90855-12	FM0308C-CS	Solid	05/30/13 09:33	05/31/13 08:53
680-90855-13	FM0308D-CS	Solid	05/30/13 09:44	05/31/13 08:53
680-90855-14	FM0308E-CS	Solid	05/30/13 09:53	05/31/13 08:53
680-90855-15	FM0308F-CS	Solid	05/30/13 10:00	05/31/13 08:53
680-90855-16	FM0097A-CS	Solid	05/30/13 13:10	05/31/13 08:53
680-90855-17	FM0097A-CSD	Solid	05/30/13 13:10	05/31/13 08:53
680-90855-18	FM0097B-CS	Solid	05/30/13 13:30	05/31/13 08:53
680-90855-19	FM0097C-CS	Solid	05/30/13 13:50	05/31/13 08:53
680-90855-20	FM0097D-CS	Solid	05/30/13 14:00	05/31/13 08:53

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0308A-CS 680-90855-09		RL	FM0308A-CSD 680-90855-10		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	18	J	46	21	J	45	µg/kg	227.5	NA	3	91	None, absolute difference ≤ 2x Avg RL
Anthracene	24		9.6	22		9.4	µg/kg	47.5	NA	2	19	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	80		9.1	79		9.0	µg/kg	45.25	1	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	84		12	91		12	µg/kg	60	8	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	140		14	150		14	µg/kg	70	7	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	62		23	69		22	µg/kg	112.5	NA	7	45	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	44		9.1	53		9.0	µg/kg	45.25	NA	9	18.1	None, absolute difference ≤ 2x Avg RL
Chrysene	110		10	110		10	µg/kg	50	0	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	24		23	23		22	µg/kg	112.5	NA	1	45	None, absolute difference ≤ 2x Avg RL
Fluoranthene	130		23	130		22	µg/kg	112.5	0	NA	NA	None, RPD ≤ 50%
Fluorene	6.5	J	23	5.0	J	22	µg/kg	112.5	NA	1.5	45	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	63		23	68		22	µg/kg	112.5	NA	5	45	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	67		46	52		45	µg/kg	227.5	NA	15	91	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	88		46	70		45	µg/kg	227.5	NA	18	91	None, absolute difference ≤ 2x Avg RL
Naphthalene	56		46	50		45	µg/kg	227.5	NA	6	91	None, absolute difference ≤ 2x Avg RL
Phenanthrene	110		9.1	84		9.0	µg/kg	45.25	**27**	NA	NA	None, RPD ≤ 50%
Pyrene	120		23	120		22	µg/kg	112.5	0	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
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	CV0185A-CS 680-90855-1		RL	CV0185A-CSD 680-90855-2		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	18	J	45	12	J	46	µg/kg	227.5	NA	6	91	None, absolute difference ≤ 2x Avg RL
Anthracene	17		9.4	18		9.6	µg/kg	47.5	NA	1	19	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	140		9.0	110		9.1	µg/kg	45.25	24	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	160		12	120		12	µg/kg	60	**29**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	320		14	240		14	µg/kg	70	**29**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	170		22	120		23	µg/kg	112.5	**34**	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	91		9.0	61		9.1	µg/kg	45.25	**39**	NA	NA	None, RPD ≤ 50%
Chrysene	190		10	160		10	µg/kg	50	17	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	38		22	33		23	µg/kg	112.5	NA	5	45	None, absolute difference ≤ 2x Avg RL
Fluoranthene	220		22	160		23	µg/kg	112.5	**32**	NA	NA	None, RPD ≤ 50%
Fluorene	17	J	22	12	J	23	µg/kg	112.5	NA	5	45	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	130		22	100		23	µg/kg	112.5	NA	30	45	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	75		45	73		46	µg/kg	227.5	NA	2	91	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	95		45	90		46	µg/kg	227.5	NA	5	91	None, absolute difference ≤ 2x Avg RL
Naphthalene	91		45	57		46	µg/kg	227.5	NA	34	91	None, absolute difference ≤ 2x Avg RL
Phenanthrene	160		9.0	130		9.1	µg/kg	45.25	21	NA	NA	None, RPD ≤ 50%
Pyrene	200		22	150		23	µg/kg	112.5	**29**	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
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	FM0097A-CS 680-90855-16		RL	FM0097A-CSD 680-90855-17		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	12	J	48	11	J	47	µg/kg	237.5	NA	1	95	None, absolute difference ≤ 2x Avg RL
Anthracene	23		10	21		9.9	µg/kg	49.75	NA	2	19.9	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	76		9.6	75		9.4	µg/kg	47.5	1	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	76		12	74		13	µg/kg	62.5	3	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	140		15	130		14	µg/kg	72.5	7	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	49		24	49		23	µg/kg	117.5	NA	0	47	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	44		9.6	41		9.4	µg/kg	47.5	NA	3	19	None, absolute difference ≤ 2x Avg RL
Chrysene	120		11	110		11	µg/kg	55	9	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	23	J	24	23	J	24	µg/kg	120	NA	0	48	None, absolute difference ≤ 2x Avg RL
Fluoranthene	130		24	120		24	µg/kg	120	NA	10	48	None, absolute difference ≤ 2x Avg RL
Fluorene	9.7	J	24	10	J	24	µg/kg	120	NA	0.3	48	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	55		24	54		24	µg/kg	120	NA	1	48	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	48		48	49		47	µg/kg	237.5	NA	1	95	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	78		48	84		47	µg/kg	237.5	NA	6	95	None, absolute difference ≤ 2x Avg RL
Naphthalene	86		48	87		47	µg/kg	237.5	NA	1	95	None, absolute difference ≤ 2x Avg RL
Phenanthrene	130		9.6	110		9.4	µg/kg	47.5	17	NA	NA	None, RPD ≤ 50%
Pyrene	100		24	91		24	µg/kg	120	NA	9	48	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram
J - Estimated value
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 C

CASE NARRATIVE

Job ID: 680-90855-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90855-1

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0185A-CS (680-90855-1), CV0185A-CSD (680-90855-2), CV1017A-CS (680-90855-3), CV1025A-CS (680-90855-4), CV1029A-CS (680-90855-5), CV1112A-CS (680-90855-6), CV1167A-CS (680-90855-7), CV1167B-CS (680-90855-8), FM0308A-CS (680-90855-9), FM0308A-CSD (680-90855-10), FM0308B-CS (680-90855-11), FM0308C-CS (680-90855-12), FM0308D-CS (680-90855-13), FM0308E-CS (680-90855-14), FM0308F-CS (680-90855-15), FM0097A-CS (680-90855-16), FM0097A-CSD (680-90855 17), FM0097B CS (680 90855 18), FM0097C CS (680-90855 19) and FM0097D CS (680-90855 20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/05/2013, 06/06/2013 and 06/07/2013 and analyzed on 06/07/2013 and 06/11/2013.

Samples CV1017A-CS (680-90855-3)[4X], CV1112A-CS (680-90855-6)[4X], CV1167A-CS (680-90855-7)[4X], CV1167B-CS (680-90855-8)[4X], FM0308D-CS (680-90855-13)[4X], FM0308E-CS (680-90855-14)[4X] and FM0308F-CS (680-90855-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-138117/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1017A-CS (680-90855-3) in batch 660-138203.

Benzo[a]pyrene and Benzo[g,h,i]perylene recovered outside the recovery criteria for the MS of sample 680-91068-12 in batch 660-138352.

Fluoranthene failed the recovery criteria high for the MSD of sample 680-91068-12 in batch 660-138352. Benzo[a]anthracene, Fluoranthene, Phenanthrene and Pyrene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

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

TestAmerica Job ID: 680-90855-1
SDG: 68090855-1

Client Sample ID: CV0185A-CS

Lab Sample ID: 680-90855-1
Date Collected: 05/30/13 08:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Acenaphthylene	18	J	45	5.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Anthracene	17		9.4	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[a]anthracene	140		9.0	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[a]pyrene	160		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[b]fluoranthene	320		14	6.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[g,h,i]perylene	170		22	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[k]fluoranthene	91		9.0	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Chrysene	190		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Dibenz(a,h)anthracene	38		22	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Fluoranthene	220		22	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Fluorene	17	J	22	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Indeno[1,2,3-cd]pyrene	130		22	8.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
1-Methylnaphthalene	75		45	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
2-Methylnaphthalene	95		45	8.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Naphthalene	91		45	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Phenanthrene	160		9.0	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Pyrene	200		22	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:01*	*1*

Client Sample ID: CV0185A-CSD

Lab Sample ID: 680-90855-2
Date Collected: 05/30/13 08:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Acenaphthylene	12	J	46	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Anthracene	18		9.6	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[a]anthracene	110		9.1	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[a]pyrene	120		12	5.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[b]fluoranthene	240		14	7.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[g,h,i]perylene	120		23	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[k]fluoranthene	61		9.1	4.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Chrysene	160		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Dibenz(a,h)anthracene	33		23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Fluoranthene	160		23	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Fluorene	12	J	23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Indeno[1,2,3-cd]pyrene	100		23	8.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
1-Methylnaphthalene	73		46	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
2-Methylnaphthalene	90		46	8.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Naphthalene	57		46	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Phenanthrene	130		9.1	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Pyrene	150		23	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:19*	*1*

Client Sample ID: CV1017A-CS

Lab Sample ID: 680-90855-3

Date Collected: 05/30/13 09:40
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	89	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Acenaphthylene	**75**	**J**	180	22	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Anthracene	**160**		37	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[a]anthracene	**650**	**F**	35	17	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[a]pyrene	**540**	**F**	46	23	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[b]fluoranthene	**980**	**F**	54	27	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[g,h,i]perylene	**450**		89	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[k]fluoranthene	**350**		35	16	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Chrysene	**680**	**F**	40	20	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Dibenz(a,h)anthracene	**150**		89	18	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Fluoranthene	**920**	**F**	89	18	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Fluorene	**74**	**J**	89	18	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Indeno[1,2,3-cd]pyrene	**320**		89	31	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
1-Methylnaphthalene	**220**		180	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
2-Methylnaphthalene	**240**		180	31	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Naphthalene	**180**		180	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Phenanthrene	**740**	**B F**	35	17	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Pyrene	**870**	**F**	89	16	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*06/05/13 15:09*	*06/07/13 14:23*	*4*

Client Sample ID: CV1025A-CS

Lab Sample ID: 680-90855-4

Date Collected: 05/30/13 10:15
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Acenaphthylene	44	U	44	5.4	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Anthracene	**7.1**	**J**	9.1	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[a]anthracene	**19**		8.7	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[a]pyrene	**24**		11	5.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[b]fluoranthene	**31**		13	6.6	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[g,h,i]perylene	**20**	**J**	22	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[k]fluoranthene	**12**		8.7	3.9	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Chrysene	**16**		9.8	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Dibenz(a,h)anthracene	**9.6**	**J**	22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Fluoranthene	**23**		22	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Fluorene	22	U	22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Indeno[1,2,3-cd]pyrene	**25**		22	7.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
1-Methylnaphthalene	**8.9**	**J**	44	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
2-Methylnaphthalene	**14**	**J**	44	7.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Naphthalene	**12**	**J**	44	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Phenanthrene	**23**		8.7	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Pyrene	**20**	**J**	22	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*06/07/13 10:07*	*06/11/13 13:30*	*1*

Client Sample ID: CV1029A-CS

Lab Sample ID: 680-90855-5

Date Collected: 05/30/13 10:30
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Acenaphthylene	**12**	**J**	47	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Anthracene	**16**		9.8	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[a]anthracene	**46**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[a]pyrene	**43**		12	6.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[b]fluoranthene	**63**		14	7.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[g,h,i]perylene	**30**		23	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[k]fluoranthene	**21**		9.3	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Chrysene	**54**		10	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Dibenz(a,h)anthracene	**13**	**J**	23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Fluoranthene	**94**		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Fluorene	**5.0**	**J**	23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Indeno[1,2,3-cd]pyrene	**34**		23	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
1-Methylnaphthalene	**13**	**J**	47	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
2-Methylnaphthalene	**17**	**J**	47	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Naphthalene	**23**	**J**	47	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Phenanthrene	**99**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Pyrene	**78**		23	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*06/07/13 10:07*	*06/11/13 13:53*	*1*

Client Sample ID: CV1112A-CS

Lab Sample ID: 680-90855-6

Date Collected: 05/30/13 10:36
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	89	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Acenaphthylene	180	U	180	22	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Anthracene	37	U	37	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[a]anthracene	**55**		35	17	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[a]pyrene	**100**		46	23	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[b]fluoranthene	**120**		54	27	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[g,h,i]perylene	**82**	**J**	89	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[k]fluoranthene	**42**		35	16	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Chrysene	**150**		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Dibenz(a,h)anthracene	**43**	**J**	89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Fluoranthene	**110**		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Fluorene	89	U	89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Indeno[1,2,3-cd]pyrene	**95**		89	31	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
1-Methylnaphthalene	**50**	**J**	180	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
2-Methylnaphthalene	**85**	**J**	180	31	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Naphthalene	**57**	**J**	180	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Phenanthrene	**98**		35	17	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Pyrene	**97**		89	16	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*06/07/13 10:07*	*06/11/13 14:15*	*4*

Client Sample ID: CV1167A-CS

Lab Sample ID: 680-90855-7

Date Collected: 05/30/13 10:59
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Acenaphthylene	**40**	**J**	190	24	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Anthracene	**81**		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[a]anthracene	**290**		38	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[a]pyrene	**290**		49	25	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[b]fluoranthene	**460**		58	29	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[g,h,i]perylene	**230**		95	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[k]fluoranthene	**150**		38	17	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Chrysene	**320**		43	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Dibenz(a,h)anthracene	**84**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Fluoranthene	**440**		95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Fluorene	**28**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Indeno[1,2,3-cd]pyrene	**240**		95	34	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
1-Methylnaphthalene	**130**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
2-Methylnaphthalene	**150**	**J**	190	34	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Naphthalene	**110**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Phenanthrene	**350**		38	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Pyrene	**370**		95	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*		*30 - 130*	*06/07/13 10:07*	*06/11/13 14:38*	*4*

Client Sample ID: CV1167B-CS

Lab Sample ID: 680-90855-8

Date Collected: 05/30/13 11:03
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Acenaphthylene	**70**	**J**	210	26	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Anthracene	**140**		44	22	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[a]anthracene	**450**		42	20	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[a]pyrene	**480**		54	27	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[b]fluoranthene	**820**		64	32	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[g,h,i]perylene	**360**		100	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[k]fluoranthene	**280**		42	19	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Chrysene	**650**		47	24	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Dibenz(a,h)anthracene	**130**		100	21	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Fluoranthene	**690**		100	21	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Fluorene	**34**	**J**	100	21	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Indeno[1,2,3-cd]pyrene	**360**		100	37	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
1-Methylnaphthalene	**300**		210	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
2-Methylnaphthalene	**340**		210	37	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Naphthalene	**230**		210	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Phenanthrene	**600**		42	20	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Pyrene	**610**		100	19	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*06/07/13 10:07*	*06/11/13 15:00*	*4*

Client Sample ID: FM0308A-CS

Lab Sample ID: 680-90855-9

Date Collected: 05/30/13 08:56
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Acenaphthylene	**18**	**J**	46	5.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Anthracene	**24**		9.6	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[a]anthracene	**80**		9.1	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[a]pyrene	**84**		12	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[b]fluoranthene	**140**		14	6.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[g,h,i]perylene	**62**		23	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[k]fluoranthene	**44**		9.1	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Chrysene	**110**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Dibenz(a,h)anthracene	**24**		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Fluoranthene	**130**		23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Fluorene	**6.5**	**J**	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Indeno[1,2,3-cd]pyrene	**63**		23	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
1-Methylnaphthalene	**67**		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
2-Methylnaphthalene	**88**		46	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Naphthalene	**56**		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Phenanthrene	**110**		9.1	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Pyrene	**120**		23	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*06/07/13 10:07*	*06/11/13 15:23*	*1*

Client Sample ID: FM0308A-CSD

Lab Sample ID: 680-90855-10

Date Collected: 05/30/13 08:56
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Acenaphthylene	**21**	**J**	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Anthracene	**22**		9.4	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[a]anthracene	**79**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[a]pyrene	**91**		12	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[b]fluoranthene	**150**		14	6.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[g,h,i]perylene	**69**		22	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[k]fluoranthene	**53**		9.0	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Chrysene	**110**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Dibenz(a,h)anthracene	**23**		22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Fluoranthene	**130**		22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Fluorene	**5.0**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Indeno[1,2,3-cd]pyrene	**68**		22	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
1-Methylnaphthalene	**52**		45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
2-Methylnaphthalene	**70**		45	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Naphthalene	**50**		45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Phenanthrene	**84**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Pyrene	**120**		22	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*06/07/13 10:07*	*06/11/13 15:46*	*1*

Client Sample ID: FM0308B-CS

Lab Sample ID: 680-90855-11

Date Collected: 05/30/13 09:20
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Acenaphthylene	**13**	**J**	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Anthracene	**14**		9.5	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[a]anthracene	**50**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[a]pyrene	**56**		12	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[b]fluoranthene	**91**		14	6.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[g,h,i]perylene	**43**		23	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[k]fluoranthene	**29**		9.0	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Chrysene	**71**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Dibenz(a,h)anthracene	**18**	**J**	23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Fluoranthene	**84**		23	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Fluorene	**5.1**	**J**	23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Indeno[1,2,3-cd]pyrene	**47**		23	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
1-Methylnaphthalene	**29**	**J**	45	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
2-Methylnaphthalene	**44**	**J**	45	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Naphthalene	**38**	**J**	45	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Phenanthrene	**70**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Pyrene	**72**		23	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*06/07/13 10:07*	*06/11/13 16:08*	*1*

Client Sample ID: FM0308C-CS

Lab Sample ID: 680-90855-12

Date Collected: 05/30/13 09:33
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Acenaphthylene	**9.2**	**J**	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Anthracene	**13**		9.4	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[a]anthracene	**58**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[a]pyrene	**65**		12	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[b]fluoranthene	**110**		14	6.8	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[g,h,i]perylene	**50**		22	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[k]fluoranthene	**32**		9.0	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Chrysene	**81**		10	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Dibenz(a,h)anthracene	**20**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Fluoranthene	**97**		22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Fluorene	**7.1**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Indeno[1,2,3-cd]pyrene	**52**		22	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
1-Methylnaphthalene	**38**	**J**	45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
2-Methylnaphthalene	**63**		45	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Naphthalene	**53**		45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Phenanthrene	**81**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Pyrene	**83**		22	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*06/07/13 10:07*	*06/11/13 16:31*	*1*

Client Sample ID: FM0308D-CS

Lab Sample ID: 680-90855-13
Date Collected: 05/30/13 09:44
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Acenaphthylene	**40**	**J**	180	23	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Anthracene	**52**		39	19	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[a]anthracene	**160**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[a]pyrene	**150**		48	24	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[b]fluoranthene	**250**		56	28	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[g,h,i]perylene	**420**		92	20	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[k]fluoranthene	**60**		37	17	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Chrysene	**200**		41	21	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Dibenz(a,h)anthracene	**58**	**J**	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Fluoranthene	**190**		92	18	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Fluorene	92	U	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Indeno[1,2,3-cd]pyrene	**200**		92	33	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
1-Methylnaphthalene	**240**		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
2-Methylnaphthalene	**390**		180	33	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Naphthalene	**230**		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Phenanthrene	**230**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Pyrene	**180**		92	17	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*06/07/13 10:07*	*06/11/13 16:53*	*4*

Client Sample ID: FM0308E-CS

Lab Sample ID: 680-90855-14
Date Collected: 05/30/13 09:53
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Anthracene	**77**		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[a]anthracene	**180**		38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[a]pyrene	**170**		49	25	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[b]fluoranthene	**250**		58	29	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[g,h,i]perylene	**110**		95	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[k]fluoranthene	**86**		38	17	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Chrysene	**220**		43	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Dibenz(a,h)anthracene	**58**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Fluoranthene	**290**		95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Fluorene	**36**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Indeno[1,2,3-cd]pyrene	**130**		95	34	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
1-Methylnaphthalene	**60**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
2-Methylnaphthalene	**120**	**J**	190	34	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Naphthalene	**110**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Phenanthrene	**290**		38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Pyrene	**230**		95	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*06/07/13 10:07*	*06/11/13 17:16*	*4*

Client Sample ID: FM0308F-CS

Lab Sample ID: 680-90855-15

Date Collected: 05/30/13 10:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Acenaphthylene	180	U	180	23	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Anthracene	**22**	**J**	38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[a]anthracene	**110**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[a]pyrene	**130**		48	24	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[b]fluoranthene	**170**		56	28	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[g,h,i]perylene	**72**	**J**	92	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[k]fluoranthene	**62**		37	16	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Chrysene	**130**		41	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Dibenz(a,h)anthracene	**42**	**J**	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Fluoranthene	**160**		92	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Fluorene	92	U	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Indeno[1,2,3-cd]pyrene	**110**		92	33	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
1-Methylnaphthalene	**42**	**J**	180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
2-Methylnaphthalene	**71**	**J**	180	33	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Naphthalene	**73**	**J**	180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Phenanthrene	**120**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Pyrene	**130**		92	17	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/07/13 10:07*	*06/11/13 17:38*	*4*

Client Sample ID: FM0097A-CS

Lab Sample ID: 680-90855-16

Date Collected: 05/30/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Acenaphthylene	**12**	**J**	48	6.0	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Anthracene	**23**		10	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[a]anthracene	**76**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[a]pyrene	**76**		12	6.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[b]fluoranthene	**140**		15	7.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[g,h,i]perylene	**49**		24	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[k]fluoranthene	**44**		9.6	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Chrysene	**120**		11	5.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Dibenz(a,h)anthracene	**23**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Fluoranthene	**130**		24	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Fluorene	**9.7**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Indeno[1,2,3-cd]pyrene	**55**		24	8.5	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
1-Methylnaphthalene	**48**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
2-Methylnaphthalene	**78**		48	8.5	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Naphthalene	**86**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Phenanthrene	**130**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Pyrene	**100**		24	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*06/07/13 10:07*	*06/11/13 18:01*	*1*

Client Sample ID: FM0097A-CSD

Lab Sample ID: 680-90855-17

Date Collected: 05/30/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Acenaphthylene	**11**	**J**	48	6.0	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Anthracene	**21**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[a]anthracene	**75**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[a]pyrene	**74**		13	6.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[b]fluoranthene	**130**		15	7.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[g,h,i]perylene	**49**		24	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[k]fluoranthene	**41**		9.6	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Chrysene	**110**		11	5.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Dibenz(a,h)anthracene	**23**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Fluoranthene	**120**		24	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Fluorene	**10**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Indeno[1,2,3-cd]pyrene	**54**		24	8.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
1-Methylnaphthalene	**49**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
2-Methylnaphthalene	**84**		48	8.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Naphthalene	**87**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Phenanthrene	**110**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Pyrene	**91**		24	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*06/07/13 10:07*	*06/11/13 18:24*	*1*

Client Sample ID: FM0097B-CS

Lab Sample ID: 680-90855-18

Date Collected: 05/30/13 13:30
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Acenaphthylene	**9.2**	**J**	47	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Anthracene	**24**		9.9	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[a]anthracene	**79**		9.4	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[a]pyrene	**84**		12	6.1	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[b]fluoranthene	**150**		14	7.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[g,h,i]perylene	**50**		23	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[k]fluoranthene	**39**		9.4	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Chrysene	**110**		11	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Dibenz(a,h)anthracene	**23**		23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Fluoranthene	**140**		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Fluorene	**12**	**J**	23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Indeno[1,2,3-cd]pyrene	**59**		23	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
1-Methylnaphthalene	**35**	**J**	47	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
2-Methylnaphthalene	**53**		47	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Naphthalene	**62**		47	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Phenanthrene	**130**		9.4	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Pyrene	**110**		23	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*06/07/13 10:07*	*06/11/13 18:46*	*1*

Client Sample ID: FM0097C-CS

Lab Sample ID: 680-90855-19

Date Collected: 05/30/13 13:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Acenaphthylene	45	U	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Anthracene	**10**		9.4	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[a]anthracene	**36**		8.9	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[a]pyrene	**41**		12	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[b]fluoranthene	**65**		14	6.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[g,h,i]perylene	**25**		22	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[k]fluoranthene	**21**		8.9	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Chrysene	**52**		10	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Dibenz(a,h)anthracene	**13**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Fluoranthene	**50**		22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Fluorene	**5.3**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Indeno[1,2,3-cd]pyrene	**32**		22	7.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
1-Methylnaphthalene	**24**	**J**	45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
2-Methylnaphthalene	**36**	**J**	45	7.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Naphthalene	**39**	**J**	45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Phenanthrene	**55**		8.9	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Pyrene	**42**		22	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*06/07/13 10:07*	*06/11/13 19:09*	*1*

Client Sample ID: FM0097D-CS

Lab Sample ID: 680-90855-20

Date Collected: 05/30/13 14:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Acenaphthylene	**7.2**	**J**	46	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Anthracene	**12**		9.7	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[a]anthracene	**40**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[a]pyrene	**45**		12	6.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[b]fluoranthene	**74**		14	7.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[g,h,i]perylene	**27**		23	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[k]fluoranthene	**24**		9.3	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Chrysene	**61**		10	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Dibenz(a,h)anthracene	**16**	**J**	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Fluoranthene	**55**		23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Fluorene	**6.0**	**J**	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Indeno[1,2,3-cd]pyrene	**37**		23	8.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
1-Methylnaphthalene	**29**	**J**	46	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
2-Methylnaphthalene	**43**	**J**	46	8.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Naphthalene	**49**		46	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Phenanthrene	**67**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Pyrene	**43**		23	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*06/07/13 10:07*	*06/11/13 19:31*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-90855-1

SDG Number: 68090855-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
6/14/2013 5:22 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
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06/14/2013

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90855-1

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0185A-CS (680-90855-1), CV0185A-CSD (680-90855-2), CV1017A-CS (680-90855-3), CV1025A-CS (680-90855-4), CV1029A-CS (680-90855-5), CV1112A-CS (680-90855-6), CV1167A-CS (680-90855-7), CV1167B-CS (680-90855-8), FM0308A-CS (680-90855-9), FM0308A-CSD (680-90855-10), FM0308B-CS (680-90855-11), FM0308C-CS (680-90855-12), FM0308D-CS (680-90855-13), FM0308E-CS (680-90855-14), FM0308F-CS (680-90855-15), FM0097A-CS (680-90855-16), FM0097A-CSD (680-90855-17), FM0097B-CS (680-90855-18), FM0097C-CS (680-90855-19) and FM0097D-CS (680-90855-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/05/2013, 06/06/2013 and 06/07/2013 and analyzed on 06/07/2013 and 06/11/2013.

Samples CV1017A-CS (680-90855-3)[4X], CV1112A-CS (680-90855-6)[4X], CV1167A-CS (680-90855-7)[4X], CV1167B-CS (680-90855-8)[4X], FM0308D-CS (680-90855-13)[4X], FM0308E-CS (680-90855-14)[4X] and FM0308F-CS (680-90855-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-138117/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1017A-CS (680-90855-3) in batch 660-138203.

Benzo[a]pyrene and Benzo[g,h,]perylene recovered outside the recovery criteria for the MS of sample 680-91068-12 in batch 660-138352.

Fluoranthene failed the recovery criteria high for the MSD of sample 680-91068-12 in batch 660-138352. Benzo[a]anthracene, Fluoranthene, Phenanthrene and Pyrene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90855-1	CV0185A-CS	Solid	05/30/2013 0850	05/31/2013 0853
680-90855-2	CV0185A-CSD	Solid	05/30/2013 0850	05/31/2013 0853
680-90855-3	CV1017A-CS	Solid	05/30/2013 0940	05/31/2013 0853
680-90855-3MS	CV1017A-CS	Solid	05/30/2013 0940	05/31/2013 0853
680-90855-3MSD	CV1017A-CS	Solid	05/30/2013 0940	05/31/2013 0853
680-90855-4	CV1025A-CS	Solid	05/30/2013 1015	05/31/2013 0853
680-90855-5	CV1029A-CS	Solid	05/30/2013 1030	05/31/2013 0853
680-90855-6	CV1112A-CS	Solid	05/30/2013 1036	05/31/2013 0853
680-90855-7	CV1167A-CS	Solid	05/30/2013 1059	05/31/2013 0853
680-90855-8	CV1167B-CS	Solid	05/30/2013 1103	05/31/2013 0853
680-90855-9	FM0308A-CS	Solid	05/30/2013 0856	05/31/2013 0853
680-90855-10	FM0308A-CSD	Solid	05/30/2013 0856	05/31/2013 0853
680-90855-11	FM0308B-CS	Solid	05/30/2013 0920	05/31/2013 0853
680-90855-12	FM0308C-CS	Solid	05/30/2013 0933	05/31/2013 0853
680-90855-13	FM0308D-CS	Solid	05/30/2013 0944	05/31/2013 0853
680-90855-14	FM0308E-CS	Solid	05/30/2013 0953	05/31/2013 0853
680-90855-15	FM0308F-CS	Solid	05/30/2013 1000	05/31/2013 0853
680-90855-16	FM0097A-CS	Solid	05/30/2013 1310	05/31/2013 0853
680-90855-17	FM0097A-CSD	Solid	05/30/2013 1310	05/31/2013 0853
680-90855-18	FM0097B-CS	Solid	05/30/2013 1330	05/31/2013 0853
680-90855-19	FM0097C-CS	Solid	05/30/2013 1350	05/31/2013 0853
680-90855-20	FM0097D-CS	Solid	05/30/2013 1400	05/31/2013 0853

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-138117					
LCS 660-138117/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138117/1-A	Method Blank	T	Solid	3546	
680-90855-3	CV1017A-CS	T	Solid	3546	
680-90855-3MS	Matrix Spike	T	Solid	3546	
680-90855-3MSD	Matrix Spike Duplicate	T	Solid	3546	
Prep Batch: 660-138156					
LCS 660-138156/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138156/1-A	Method Blank	T	Solid	3546	
680-90855-1	CV0185A-CS	T	Solid	3546	
680-90855-2	CV0185A-CSD	T	Solid	3546	
680-90855-A-21-B MS	Matrix Spike	T	Solid	3546	
680-90855-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Prep Batch: 660-138190					
LCS 660-138190/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138190/1-A	Method Blank	T	Solid	3546	
680-90855-4	CV1025A-CS	T	Solid	3546	
680-90855-5	CV1029A-CS	T	Solid	3546	
680-90855-6	CV1112A-CS	T	Solid	3546	
680-90855-7	CV1167A-CS	T	Solid	3546	
680-90855-8	CV1167B-CS	T	Solid	3546	
680-90855-9	FM0308A-CS	T	Solid	3546	
680-90855-10	FM0308A-CSD	T	Solid	3546	
680-90855-11	FM0308B-CS	T	Solid	3546	
680-90855-12	FM0308C-CS	T	Solid	3546	
680-90855-13	FM0308D-CS	T	Solid	3546	
680-90855-14	FM0308E-CS	T	Solid	3546	
680-90855-15	FM0308F-CS	T	Solid	3546	
680-90855-16	FM0097A-CS	T	Solid	3546	
680-90855-17	FM0097A-CSD	T	Solid	3546	
680-90855-18	FM0097B-CS	T	Solid	3546	
680-90855-19	FM0097C-CS	T	Solid	3546	
680-90855-20	FM0097D-CS	T	Solid	3546	
680-91068-A-12-B MS	Matrix Spike	T	Solid	3546	
680-91068-A-12-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-138203					
LCS 660-138117/2-A	Lab Control Sample	T	Solid	8270C LL	660-138117
MB 660-138117/1-A	Method Blank	T	Solid	8270C LL	660-138117
680-90855-1	CV0185A-CS	T	Solid	8270C LL	660-138156
680-90855-2	CV0185A-CSD	T	Solid	8270C LL	660-138156
680-90855-3	CV1017A-CS	T	Solid	8270C LL	660-138117
680-90855-3MS	Matrix Spike	T	Solid	8270C LL	660-138117
680-90855-3MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138117

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-138205					
LCS 660-138156/2-A	Lab Control Sample	T	Solid	8270C LL	660-138156
MB 660-138156/1-A	Method Blank	T	Solid	8270C LL	660-138156
680-90855-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-138156
680-90855-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138156
Analysis Batch:660-138352					
LCS 660-138190/2-A	Lab Control Sample	T	Solid	8270C LL	660-138190
MB 660-138190/1-A	Method Blank	T	Solid	8270C LL	660-138190
680-90855-4	CV1025A-CS	T	Solid	8270C LL	660-138190
680-90855-5	CV1029A-CS	T	Solid	8270C LL	660-138190
680-90855-6	CV1112A-CS	T	Solid	8270C LL	660-138190
680-90855-7	CV1167A-CS	T	Solid	8270C LL	660-138190
680-90855-8	CV1167B-CS	T	Solid	8270C LL	660-138190
680-90855-9	FM0308A-CS	T	Solid	8270C LL	660-138190
680-90855-10	FM0308A-CSD	T	Solid	8270C LL	660-138190
680-90855-11	FM0308B-CS	T	Solid	8270C LL	660-138190
680-90855-12	FM0308C-CS	T	Solid	8270C LL	660-138190
680-90855-13	FM0308D-CS	T	Solid	8270C LL	660-138190
680-90855-14	FM0308E-CS	T	Solid	8270C LL	660-138190
680-90855-15	FM0308F-CS	T	Solid	8270C LL	660-138190
680-90855-16	FM0097A-CS	T	Solid	8270C LL	660-138190
680-90855-17	FM0097A-CSD	T	Solid	8270C LL	660-138190
680-90855-18	FM0097B-CS	T	Solid	8270C LL	660-138190
680-90855-19	FM0097C-CS	T	Solid	8270C LL	660-138190
680-90855-20	FM0097D-CS	T	Solid	8270C LL	660-138190
680-91068-A-12-B MS	Matrix Spike	T	Solid	8270C LL	660-138190
680-91068-A-12-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138190

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
Sdg Number: 68090855-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137974					
680-90855-3	CV1017A-CS	T	Solid	Moisture	
680-90855-3MS	Matrix Spike	T	Solid	Moisture	
680-90855-3MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-137982					
LCS 660-137982/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137982/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90855-1	CV0185A-CS	T	Solid	Moisture	
680-90855-10	FM0308A-CSD	T	Solid	Moisture	
Analysis Batch:660-137998					
LCS 660-137998/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137998/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90855-2	CV0185A-CSD	T	Solid	Moisture	
680-90855-4	CV1025A-CS	T	Solid	Moisture	
680-90855-5	CV1029A-CS	T	Solid	Moisture	
680-90855-6	CV1112A-CS	T	Solid	Moisture	
680-90855-7	CV1167A-CS	T	Solid	Moisture	
680-90855-8	CV1167B-CS	T	Solid	Moisture	
680-90855-9	FM0308A-CS	T	Solid	Moisture	
680-90855-11	FM0308B-CS	T	Solid	Moisture	
680-90855-12	FM0308C-CS	T	Solid	Moisture	
680-90855-13	FM0308D-CS	T	Solid	Moisture	
680-90855-14	FM0308E-CS	T	Solid	Moisture	
680-90855-15	FM0308F-CS	T	Solid	Moisture	
680-90855-16	FM0097A-CS	T	Solid	Moisture	
680-90855-17	FM0097A-CSD	T	Solid	Moisture	
680-90855-18	FM0097B-CS	T	Solid	Moisture	
680-90855-19	FM0097C-CS	T	Solid	Moisture	
680-90855-20	FM0097D-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMC5973 Analysis Batch Number: 137704

Lab Sample ID: IC 660-137704/15 Client Sample ID:

Date Analyzed: 05/22/13 16:16 Lab File ID: 1CE22014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 09:51
Dibenz(a,h)anthracene	10.82	Baseline Event	cantins	05/23/13 09:49
Benzo[g,h,i]perylene	11.22	Baseline Event	cantins	05/23/13 09:49

Lab Sample ID: IC 660-137704/16 Client Sample ID:

Date Analyzed: 05/22/13 16:34 Lab File ID: 1CE22015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:06
Dibenz(a,h)anthracene	10.83	Baseline Event	cantins	05/23/13 10:05

Lab Sample ID: IC 660-137704/17 Client Sample ID:

Date Analyzed: 05/22/13 16:52 Lab File ID: 1CE22016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:06

Lab Sample ID: IC 660-137704/18 Client Sample ID:

Date Analyzed: 05/22/13 17:10 Lab File ID: 1CE22017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMC5973 Analysis Batch Number: 137704

Lab Sample ID: ICIS 660-137704/19 Client Sample ID:

Date Analyzed: 05/22/13 17:29 Lab File ID: 1CE22018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/22/13 18:03

Lab Sample ID: IC 660-137704/20 Client Sample ID:

Date Analyzed: 05/22/13 17:47 Lab File ID: 1CE22019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/23/13 10:07

Lab Sample ID: IC 660-137704/21 Client Sample ID:

Date Analyzed: 05/22/13 18:05 Lab File ID: 1CE22020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.82	Split Peak	cantins	05/23/13 10:09

Lab Sample ID: ICV 660-137704/22 Client Sample ID:

Date Analyzed: 05/22/13 18:24 Lab File ID: 1CE22021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/23/13 10:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMC5973 Analysis Batch Number: 138203

Lab Sample ID: CCVIS 660-138203/5 Client Sample ID:

Date Analyzed: 06/07/13 12:13 Lab File ID: 1CF07005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.75	Split Peak	cantins	06/07/13 12:29

Lab Sample ID: MB 660-138117/1-A Client Sample ID:

Date Analyzed: 06/07/13 12:51 Lab File ID: 1CF07007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	6.10	Baseline Event	cantins	06/07/13 13:05

Lab Sample ID: LCS 660-138117/2-A Client Sample ID:

Date Analyzed: 06/07/13 13:10 Lab File ID: 1CF07008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.75	Split Peak	cantins	06/07/13 13:41

Lab Sample ID: 680-90855-3 Client Sample ID: CV1017A-CS

Date Analyzed: 06/07/13 14:23 Lab File ID: 1CF07012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.97	Split Peak	cantins	06/09/13 12:44
Benzo[k]fluoranthene	8.99	Baseline Event	cantins	06/09/13 12:45
Indeno[1,2,3-cd]pyrene	10.73	Split Peak	cantins	06/09/13 12:45

Lab Sample ID: 680-90855-3 MS Client Sample ID: CV1017A-CS MS

Date Analyzed: 06/07/13 14:42 Lab File ID: 1CF07013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.74	Split Peak	cantins	06/09/13 12:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMC5973 Analysis Batch Number: 138203

Lab Sample ID: 680-90855-3 MSD Client Sample ID: CV1017A-CS MSD

Date Analyzed: 06/07/13 15:00 Lab File ID: 1CF07014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.75	Split Peak	cantins	06/09/13 12:46

Lab Sample ID: 680-90855-1 Client Sample ID: CV0185A-CS

Date Analyzed: 06/07/13 22:01 Lab File ID: 1CF07037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.74	Split Peak	cantins	06/09/13 11:06

Lab Sample ID: 680-90855-2 Client Sample ID: CV0185A-CSD

Date Analyzed: 06/07/13 22:19 Lab File ID: 1CF07038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.97	Split Peak	cantins	06/09/13 11:06
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/09/13 11:07
Indeno[1,2,3-cd]pyrene	10.74	Split Peak	cantins	06/09/13 11:08
Dibenz(a,h)anthracene	10.77	Baseline Event	cantins	06/09/13 11:08
Benzo[g,h,i]perylene	11.16	Baseline Event	cantins	06/09/13 11:08

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Analysis Batch Number: 137830

Lab Sample ID: IC 660-137830/3 Client Sample ID:

Date Analyzed: 05/23/13 13:03 Lab File ID: 1DE23003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	15.15	Baseline Event	cantins	05/28/13 11:36
Benzo[g,h,i]perylene	15.57	Baseline Event	cantins	05/28/13 11:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Analysis Batch Number: 138205

Lab Sample ID: 680-90855-A-21-B MS Client Sample ID:

Date Analyzed: 06/07/13 21:02 Lab File ID: 1DF07027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/09/13 10:19

Lab Sample ID: 680-90855-A-21-C MSD Client Sample ID:

Date Analyzed: 06/07/13 21:25 Lab File ID: 1DF07028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/09/13 10:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Analysis Batch Number: 138352

Lab Sample ID: LCS 660-138190/2-A Client Sample ID:

Date Analyzed: 06/11/13 13:08 Lab File ID: 1DF11006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/12/13 12:06

Lab Sample ID: 680-90855-4 Client Sample ID: CV1025A-CS

Date Analyzed: 06/11/13 13:30 Lab File ID: 1DF11007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/12/13 12:07

Lab Sample ID: 680-90855-5 Client Sample ID: CV1029A-CS

Date Analyzed: 06/11/13 13:53 Lab File ID: 1DF11008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/12/13 12:08

Lab Sample ID: 680-90855-6 Client Sample ID: CV1112A-CS

Date Analyzed: 06/11/13 14:15 Lab File ID: 1DF11009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/12/13 12:08

Lab Sample ID: 680-90855-7 Client Sample ID: CV1167A-CS

Date Analyzed: 06/11/13 14:38 Lab File ID: 1DF11010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/12/13 12:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Analysis Batch Number: 138352

Lab Sample ID: 680-90855-8 Client Sample ID: CV1167B-CS

Date Analyzed: 06/11/13 15:00 Lab File ID: 1DF11011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/12/13 12:10

Lab Sample ID: 680-90855-9 Client Sample ID: FM0308A-CS

Date Analyzed: 06/11/13 15:23 Lab File ID: 1DF11012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/12/13 12:10

Lab Sample ID: 680-90855-10 Client Sample ID: FM0308A-CSD

Date Analyzed: 06/11/13 15:46 Lab File ID: 1DF11013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/12/13 12:11

Lab Sample ID: 680-90855-11 Client Sample ID: FM0308B-CS

Date Analyzed: 06/11/13 16:08 Lab File ID: 1DF11014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/12/13 12:11

Lab Sample ID: 680-90855-12 Client Sample ID: FM0308C-CS

Date Analyzed: 06/11/13 16:31 Lab File ID: 1DF11015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/12/13 12:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Analysis Batch Number: 138352

Lab Sample ID: 680-90855-13 Client Sample ID: FM0308D-CS

Date Analyzed: 06/11/13 16:53 Lab File ID: 1DF11016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/12/13 12:13

Lab Sample ID: 680-90855-14 Client Sample ID: FM0308E-CS

Date Analyzed: 06/11/13 17:16 Lab File ID: 1DF11017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/12/13 12:13

Lab Sample ID: 680-90855-15 Client Sample ID: FM0308F-CS

Date Analyzed: 06/11/13 17:38 Lab File ID: 1DF11018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/12/13 12:23

Lab Sample ID: 680-90855-16 Client Sample ID: FM0097A-CS

Date Analyzed: 06/11/13 18:01 Lab File ID: 1DF11019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/12/13 12:23

Lab Sample ID: 680-90855-17 Client Sample ID: FM0097A-CSD

Date Analyzed: 06/11/13 18:24 Lab File ID: 1DF11020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/12/13 12:24

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Analysis Batch Number: 138352

Lab Sample ID: 680-90855-18 Client Sample ID: FM0097B-CS

Date Analyzed: 06/11/13 18:46 Lab File ID: 1DF11021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/12/13 12:24

Lab Sample ID: 680-90855-19 Client Sample ID: FM0097C-CS

Date Analyzed: 06/11/13 19:09 Lab File ID: 1DF11022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/12/13 12:25
Benzo[g,h,i]perylene	15.60	Baseline Event	cantins	06/12/13 12:25

Lab Sample ID: 680-90855-20 Client Sample ID: FM0097D-CS

Date Analyzed: 06/11/13 19:31 Lab File ID: 1DF11023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/12/13 12:26

Lab Sample ID: 680-91068-A-12-B MS Client Sample ID:

Date Analyzed: 06/11/13 21:01 Lab File ID: 1DF11027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.16	Split Peak	cantins	06/12/13 12:29

Lab Sample ID: 680-91068-A-12-C MSD Client Sample ID:

Date Analyzed: 06/11/13 21:24 Lab File ID: 1DF11028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.17	Split Peak	cantins	06/12/13 12:29

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
CV0185A-CS	680-90855-1	49
CV0185A-CSD	680-90855-2	61
CV1017A-CS	680-90855-3	95
CV1025A-CS	680-90855-4	64
CV1029A-CS	680-90855-5	60
CV1112A-CS	680-90855-6	62
CV1167A-CS	680-90855-7	42
CV1167B-CS	680-90855-8	46
FM0308A-CS	680-90855-9	59
FM0308A-CSD	680-90855-10	64
FM0308B-CS	680-90855-11	57
FM0308C-CS	680-90855-12	56
FM0308D-CS	680-90855-13	65
FM0308E-CS	680-90855-14	56
FM0308F-CS	680-90855-15	72
FM0097A-CS	680-90855-16	63
FM0097A-CSD	680-90855-17	54
FM0097B-CS	680-90855-18	51
FM0097C-CS	680-90855-19	59
FM0097D-CS	680-90855-20	67
	MB 660-138117/1-A	84
	MB 660-138156/1-A	71
	MB 660-138190/1-A	83
	LCS 660-138117/2-A	85
	LCS 660-138156/2-A	75
	LCS 660-138190/2-A	62
	680-90855-A-21-B MS	60
	680-91068-A-12-B MS	51
CV1017A-CS MS	680-90855-3 MS	71
	680-90855-A-21-C MSD	64

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
	680-91068-A-12-C MSD	52
CV1017A-CS MSD	680-90855-3 MSD	75

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1CF07008.D

Lab ID: LCS 660-138117/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	575	86	39-130	
Acenaphthylene	668	552	83	38-130	
Anthracene	668	528	79	37-130	
Benzo[a]anthracene	668	549	82	40-130	
Benzo[a]pyrene	668	488	73	49-130	
Benzo[b]fluoranthene	668	611	91	37-130	
Benzo[g,h,i]perylene	668	480	72	32-130	
Benzo[k]fluoranthene	668	525	79	32-130	
Chrysene	668	481	72	41-130	
Dibenz(a,h)anthracene	668	532	80	27-130	
Fluoranthene	668	630	94	40-130	
Fluorene	668	586	88	40-130	
Indeno[1,2,3-cd]pyrene	668	456	68	30-130	
1-Methylnaphthalene	668	534	80	31-130	
2-Methylnaphthalene	668	574	86	33-130	
Naphthalene	668	453	68	36-130	
Phenanthrene	668	506	76	42-130	
Pyrene	668	467	70	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1DF07016.D

Lab ID: LCS 660-138156/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	504	75	39-130	
Acenaphthylene	669	551	82	38-130	
Anthracene	669	555	83	37-130	
Benzo[a]anthracene	669	486	73	40-130	
Benzo[a]pyrene	669	496	74	49-130	
Benzo[b]fluoranthene	669	541	81	37-130	
Benzo[g,h,i]perylene	669	555	83	32-130	
Benzo[k]fluoranthene	669	537	80	32-130	
Chrysene	669	492	74	41-130	
Dibenz(a,h)anthracene	669	532	80	27-130	
Fluoranthene	669	539	81	40-130	
Fluorene	669	547	82	40-130	
Indeno[1,2,3-cd]pyrene	669	512	77	30-130	
1-Methylnaphthalene	669	509	76	31-130	
2-Methylnaphthalene	669	541	81	33-130	
Naphthalene	669	523	78	36-130	
Phenanthrene	669	531	79	42-130	
Pyrene	669	508	76	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1DF11006.D

Lab ID: LCS 660-138190/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	407	61	39-130	
Acenaphthylene	667	445	67	38-130	
Anthracene	667	439	66	37-130	
Benzo[a]anthracene	667	399	60	40-130	
Benzo[a]pyrene	667	398	60	49-130	
Benzo[b]fluoranthene	667	451	68	37-130	
Benzo[g,h,i]perylene	667	414	62	32-130	
Benzo[k]fluoranthene	667	426	64	32-130	
Chrysene	667	382	57	41-130	
Dibenz(a,h)anthracene	667	408	61	27-130	
Fluoranthene	667	435	65	40-130	
Fluorene	667	452	68	40-130	
Indeno[1,2,3-cd]pyrene	667	391	59	30-130	
1-Methylnaphthalene	667	418	63	31-130	
2-Methylnaphthalene	667	446	67	33-130	
Naphthalene	667	417	62	36-130	
Phenanthrene	667	430	64	42-130	
Pyrene	667	413	62	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1DF07027.D

Lab ID: 680-90855-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	685	100 U	415	61	39-130	
Acenaphthylene	685	13 J	448	63	38-130	
Anthracene	685	25	459	63	37-130	
Benzo[a]anthracene	685	82	484	59	40-130	
Benzo[a]pyrene	685	94	484	57	49-130	
Benzo[b]fluoranthene	685	160	593	63	37-130	
Benzo[g,h,i]perylene	685	89	521	63	32-130	
Benzo[k]fluoranthene	685	51	487	64	32-130	
Chrysene	685	130	522	57	41-130	
Dibenz(a,h)anthracene	685	28	429	59	27-130	
Fluoranthene	685	170	643	69	40-130	
Fluorene	685	10 J	447	64	40-130	
Indeno[1,2,3-cd]pyrene	685	80	480	58	30-130	
1-Methylnaphthalene	685	45	463	61	31-130	
2-Methylnaphthalene	685	69	531	67	33-130	
Naphthalene	685	48	463	61	36-130	
Phenanthrene	685	140	616	70	42-130	
Pyrene	685	140	585	65	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1DF11027.D

Lab ID: 680-91068-A-12-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	733	110 U	406	55	39-130	
Acenaphthylene	733	26 J	455	59	38-130	
Anthracene	733	45	454	56	37-130	
Benzo[a]anthracene	733	160	544	52	40-130	
Benzo[a]pyrene	733	160	487	44	49-130	F
Benzo[b]fluoranthene	733	320	789	64	37-130	
Benzo[g,h,i]perylene	733	100	311	28	32-130	F
Benzo[k]fluoranthene	733	87	491	55	32-130	
Chrysene	733	210	564	48	41-130	
Dibenz(a,h)anthracene	733	37	301	36	27-130	
Fluoranthene	733	280	744	63	40-130	
Fluorene	733	16 J	444	58	40-130	
Indeno[1,2,3-cd]pyrene	733	100	339	32	30-130	
1-Methylnaphthalene	733	76	472	54	31-130	
2-Methylnaphthalene	733	110	533	58	33-130	
Naphthalene	733	110	499	53	36-130	
Phenanthrene	733	220	663	60	42-130	
Pyrene	733	230	605	51	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1CF07013.D

Lab ID: 680-90855-3 MS Client ID: CV1017A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	744	440 U	554	74	39-130	
Acenaphthylene	744	75 J	657	78	38-130	
Anthracene	744	160	591	57	37-130	
Benzo[a]anthracene	744	650	820	23	40-130	F
Benzo[a]pyrene	744	540	786	33	49-130	F
Benzo[b]fluoranthene	744	980	1090	14	37-130	F
Benzo[g,h,i]perylene	744	450	687	32	32-130	
Benzo[k]fluoranthene	744	350	861	69	32-130	
Chrysene	744	680	882	27	41-130	F
Dibenz(a,h)anthracene	744	150	570	56	27-130	
Fluoranthene	744	920	950	4	40-130	F
Fluorene	744	74 J	577	68	40-130	
Indeno[1,2,3-cd]pyrene	744	320	601	38	30-130	
1-Methylnaphthalene	744	220	777	74	31-130	
2-Methylnaphthalene	744	240	839	81	33-130	
Naphthalene	744	180	544	48	36-130	
Phenanthrene	744	740	815	10	42-130	F
Pyrene	744	870	858	-2	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1DF07028.D

Lab ID: 680-90855-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	687	405	59	2	40	39-130	
Acenaphthylene	687	455	64	1	40	38-130	
Anthracene	687	450	62	2	40	37-130	
Benzo[a]anthracene	687	436	52	11	40	40-130	
Benzo[a]pyrene	687	431	49	11	40	49-130	
Benzo[b]fluoranthene	687	525	53	12	40	37-130	
Benzo[g,h,i]perylene	687	444	52	16	40	32-130	
Benzo[k]fluoranthene	687	444	57	9	40	32-130	
Chrysene	687	504	55	4	40	41-130	
Dibenz(a,h)anthracene	687	402	54	6	40	27-130	
Fluoranthene	687	550	55	16	40	40-130	
Fluorene	687	444	63	1	40	40-130	
Indeno[1,2,3-cd]pyrene	687	425	50	12	40	30-130	
1-Methylnaphthalene	687	443	58	4	40	31-130	
2-Methylnaphthalene	687	501	63	6	40	33-130	
Naphthalene	687	440	57	5	40	36-130	
Phenanthrene	687	541	59	13	40	42-130	
Pyrene	687	495	51	17	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1DF11028.D

Lab ID: 680-91068-A-12-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	733	457	62	12	40	39-130	
Acenaphthylene	733	509	66	11	40	38-130	
Anthracene	733	569	71	22	40	37-130	
Benzo[a]anthracene	733	832	91	42	40	40-130	F
Benzo[a]pyrene	733	700	73	36	40	49-130	
Benzo[b]fluoranthene	733	1150	113	37	40	37-130	
Benzo[g,h,i]perylene	733	415	42	29	40	32-130	
Benzo[k]fluoranthene	733	669	79	31	40	32-130	
Chrysene	733	818	83	37	40	41-130	
Dibenz(a,h)anthracene	733	353	43	16	40	27-130	
Fluoranthene	733	1320	141	56	40	40-130	F
Fluorene	733	510	67	14	40	40-130	
Indeno[1,2,3-cd]pyrene	733	451	48	28	40	30-130	
1-Methylnaphthalene	733	566	67	18	40	31-130	
2-Methylnaphthalene	733	653	74	20	40	33-130	
Naphthalene	733	627	71	23	40	36-130	
Phenanthrene	733	1060	114	46	40	42-130	F
Pyrene	733	996	104	49	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Matrix: Solid Level: Low Lab File ID: 1CF07014.D

Lab ID: 680-90855-3 MSD Client ID: CV1017A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	744	592	80	7	40	39-130	
Acenaphthylene	744	587	69	11	40	38-130	
Anthracene	744	614	60	4	40	37-130	
Benzo[a]anthracene	744	780	18	5	40	40-130	F
Benzo[a]pyrene	744	717	24	9	40	49-130	F
Benzo[b]fluoranthene	744	1280	40	16	40	37-130	
Benzo[g,h,i]perylene	744	685	32	0	40	32-130	
Benzo[k]fluoranthene	744	704	48	20	40	32-130	
Chrysene	744	864	25	2	40	41-130	F
Dibenz(a,h)anthracene	744	584	58	2	40	27-130	
Fluoranthene	744	919	-0.4	3	40	40-130	F
Fluorene	744	621	74	7	40	40-130	
Indeno[1,2,3-cd]pyrene	744	608	39	1	40	30-130	
1-Methylnaphthalene	744	767	73	1	40	31-130	
2-Methylnaphthalene	744	821	78	2	40	33-130	
Naphthalene	744	523	45	4	40	36-130	
Phenanthrene	744	881	18	8	40	42-130	F
Pyrene	744	797	-10	7	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1CF07007.D Lab Sample ID: MB 660-138117/1-A

Matrix: Solid Date Extracted: 06/05/2013 15:09

Instrument ID: BSMC5973 Date Analyzed: 06/07/2013 12:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138117/2-A	1CF07008.D	06/07/2013 13:10
CV1017A-CS	680-90855-3	1CF07012.D	06/07/2013 14:23
CV1017A-CS MS	680-90855-3 MS	1CF07013.D	06/07/2013 14:42
CV1017A-CS MSD	680-90855-3 MSD	1CF07014.D	06/07/2013 15:00

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1DF07012.D Lab Sample ID: MB 660-138156/1-A

Matrix: Solid Date Extracted: 06/06/2013 14:10

Instrument ID: BSMD5973 Date Analyzed: 06/07/2013 15:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138156/2-A	1DF07016.D	06/07/2013 16:54
	680-90855-A-21-B MS	1DF07027.D	06/07/2013 21:02
	680-90855-A-21-C MSD	1DF07028.D	06/07/2013 21:25
CV0185A-CS	680-90855-1	1CF07037.D	06/07/2013 22:01
CV0185A-CSD	680-90855-2	1CF07038.D	06/07/2013 22:19

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1DF11005.D Lab Sample ID: MB 660-138190/1-A

Matrix: Solid Date Extracted: 06/07/2013 10:07

Instrument ID: BSMD5973 Date Analyzed: 06/11/2013 12:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138190/2-A	1DF11006.D	06/11/2013 13:08
CV1025A-CS	680-90855-4	1DF11007.D	06/11/2013 13:30
CV1029A-CS	680-90855-5	1DF11008.D	06/11/2013 13:53
CV1112A-CS	680-90855-6	1DF11009.D	06/11/2013 14:15
CV1167A-CS	680-90855-7	1DF11010.D	06/11/2013 14:38
CV1167B-CS	680-90855-8	1DF11011.D	06/11/2013 15:00
FM0308A-CS	680-90855-9	1DF11012.D	06/11/2013 15:23
FM0308A-CSD	680-90855-10	1DF11013.D	06/11/2013 15:46
FM0308B-CS	680-90855-11	1DF11014.D	06/11/2013 16:08
FM0308C-CS	680-90855-12	1DF11015.D	06/11/2013 16:31
FM0308D-CS	680-90855-13	1DF11016.D	06/11/2013 16:53
FM0308E-CS	680-90855-14	1DF11017.D	06/11/2013 17:16
FM0308F-CS	680-90855-15	1DF11018.D	06/11/2013 17:38
FM0097A-CS	680-90855-16	1DF11019.D	06/11/2013 18:01
FM0097A-CSD	680-90855-17	1DF11020.D	06/11/2013 18:24
FM0097B-CS	680-90855-18	1DF11021.D	06/11/2013 18:46
FM0097C-CS	680-90855-19	1DF11022.D	06/11/2013 19:09
FM0097D-CS	680-90855-20	1DF11023.D	06/11/2013 19:31
	680-91068-A-12-B MS	1DF11027.D	06/11/2013 21:01
	680-91068-A-12-C MSD	1DF11028.D	06/11/2013 21:24

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1CE22002.D DFTPP Injection Date: 05/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:24

Analysis Batch No.: 137704

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	26.9	
68	Less than 2.0 % of mass 69	0.7	(1.6)1
69	Mass 69 relative abundance	41.8	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	49.5	
197	Less than 2.0 % of mass 198	0.3	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	25.4	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	14.1	
442	Greater than 50.0 % of mass 198	87.6	
443	15.0 - 24.0 % of mass 442	15.7	(18.0)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-137704/15	1CE22014.D	05/22/2013	16:16
	IC 660-137704/16	1CE22015.D	05/22/2013	16:34
	IC 660-137704/17	1CE22016.D	05/22/2013	16:52
	IC 660-137704/18	1CE22017.D	05/22/2013	17:10
	ICIS 660-137704/19	1CE22018.D	05/22/2013	17:29
	IC 660-137704/20	1CE22019.D	05/22/2013	17:47
	IC 660-137704/21	1CE22020.D	05/22/2013	18:05
	ICV 660-137704/22	1CE22021.D	05/22/2013	18:24

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1CF07003.D DFTPP Injection Date: 06/07/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:30

Analysis Batch No.: 138203

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	47.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	62.1	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	46.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.0	
275	10.0 - 60.0 % of mass 198	20.4	
365	Greater than 1.0 % of mass 198	6.3	
441	Present but less than mass 443	12.7	
442	Greater than 50.0 % of mass 198	64.6	
443	15.0 - 24.0 % of mass 442	14.0	(21.8)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138203/5	1CF07005.D	06/07/2013	12:13
	MB 660-138117/1-A	1CF07007.D	06/07/2013	12:51
	LCS 660-138117/2-A	1CF07008.D	06/07/2013	13:10
CV1017A-CS	680-90855-3	1CF07012.D	06/07/2013	14:23
CV1017A-CS MS	680-90855-3 MS	1CF07013.D	06/07/2013	14:42
CV1017A-CS MSD	680-90855-3 MSD	1CF07014.D	06/07/2013	15:00
CV0185A-CS	680-90855-1	1CF07037.D	06/07/2013	22:01
CV0185A-CSD	680-90855-2	1CF07038.D	06/07/2013	22:19

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1DE23002.D DFTPP Injection Date: 05/23/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:20

Analysis Batch No.: 137830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	55.4	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	53.5	
70	Less than 2.0 % of mass 69	0.5	(0.9)1
127	10.0 - 80.0 % of mass 198	56.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	26.0	
365	Greater than 1.0 % of mass 198	4.0	
441	Present but less than mass 443	7.8	
442	Greater than 50.0 % of mass 198	54.0	
443	15.0 - 24.0 % of mass 442	9.9	(18.4)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-137830/3	1DE23003.D	05/23/2013	13:03
	IC 660-137830/4	1DE23004.D	05/23/2013	13:26
	IC 660-137830/5	1DE23005.D	05/23/2013	13:48
	IC 660-137830/6	1DE23006.D	05/23/2013	14:11
	ICIS 660-137830/7	1DE23007.D	05/23/2013	14:33
	IC 660-137830/8	1DE23008.D	05/23/2013	14:56
	IC 660-137830/9	1DE23009.D	05/23/2013	15:19
	ICV 660-137830/10	1DE23010.D	05/23/2013	15:41

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1DF07002.D DFTPP Injection Date: 06/07/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 138205

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	33.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	32.0	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	45.1	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.4	
275	10.0 - 60.0 % of mass 198	28.6	
365	Greater than 1.0 % of mass 198	4.9	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	90.7	
443	15.0 - 24.0 % of mass 442	19.3	(21.3)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138205/4	1DF07004.D	06/07/2013	12:17
	MB 660-138156/1-A	1DF07012.D	06/07/2013	15:23
	LCS 660-138156/2-A	1DF07016.D	06/07/2013	16:54
	680-90855-A-21-B MS	1DF07027.D	06/07/2013	21:02
	680-90855-A-21-C MSD	1DF07028.D	06/07/2013	21:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab File ID: 1DF11002.D DFTPP Injection Date: 06/11/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:44

Analysis Batch No.: 138352

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	35.3	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	37.5	
70	Less than 2.0 % of mass 69	0.5	(1.2)1
127	10.0 - 80.0 % of mass 198	47.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.4	
275	10.0 - 60.0 % of mass 198	29.6	
365	Greater than 1.0 % of mass 198	4.6	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	88.6	
443	15.0 - 24.0 % of mass 442	17.3	(19.5)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138352/3	1DF11003.D	06/11/2013	12:00
	MB 660-138190/1-A	1DF11005.D	06/11/2013	12:45
	LCS 660-138190/2-A	1DF11006.D	06/11/2013	13:08
CV1025A-CS	680-90855-4	1DF11007.D	06/11/2013	13:30
CV1029A-CS	680-90855-5	1DF11008.D	06/11/2013	13:53
CV1112A-CS	680-90855-6	1DF11009.D	06/11/2013	14:15
CV1167A-CS	680-90855-7	1DF11010.D	06/11/2013	14:38
CV1167B-CS	680-90855-8	1DF11011.D	06/11/2013	15:00
FM0308A-CS	680-90855-9	1DF11012.D	06/11/2013	15:23
FM0308A-CSD	680-90855-10	1DF11013.D	06/11/2013	15:46
FM0308B-CS	680-90855-11	1DF11014.D	06/11/2013	16:08
FM0308C-CS	680-90855-12	1DF11015.D	06/11/2013	16:31
FM0308D-CS	680-90855-13	1DF11016.D	06/11/2013	16:53
FM0308E-CS	680-90855-14	1DF11017.D	06/11/2013	17:16
FM0308F-CS	680-90855-15	1DF11018.D	06/11/2013	17:38
FM0097A-CS	680-90855-16	1DF11019.D	06/11/2013	18:01
FM0097A-CSD	680-90855-17	1DF11020.D	06/11/2013	18:24
FM0097B-CS	680-90855-18	1DF11021.D	06/11/2013	18:46
FM0097C-CS	680-90855-19	1DF11022.D	06/11/2013	19:09
FM0097D-CS	680-90855-20	1DF11023.D	06/11/2013	19:31
	680-91068-A-12-B MS	1DF11027.D	06/11/2013	21:01
	680-91068-A-12-C MSD	1DF11028.D	06/11/2013	21:24

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: ICIS 660-137704/19 Date Analyzed: 05/22/2013 17:29

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CE22018.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2696939	4.06	1843203	5.15	3628372	6.12
UPPER LIMIT		5393878	4.56	3686406	5.65	7256744	6.62
LOWER LIMIT		1348470	3.56	921602	4.65	1814186	5.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137704/22		3002271	4.06	2105599	5.15	3933786	6.12

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: ICIS 660-137704/19 Date Analyzed: 05/22/2013 17:29

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CE22018.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4592658	8.08	4701347	9.42		
UPPER LIMIT		9185316	8.58	9402694	9.92		
LOWER LIMIT		2296329	7.58	2350674	8.92		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137704/22		4897113	8.08	5001508	9.42		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: CCVIS 660-138203/5 Date Analyzed: 06/07/2013 12:13

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CF07005.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2868080	4.03	2068356	5.12	4102968	6.09
UPPER LIMIT		5736160	4.53	4136712	5.62	8205936	6.59
LOWER LIMIT		1434040	3.53	1034178	4.62	2051484	5.59
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138117/1-A		1615824	4.03	1184432	5.12	2383826	6.09
LCS 660-138117/2-A		1735722	4.03	1218798	5.12	2500830	6.09
680-90855-3	CV1017A-CS	1835465	4.03	1354471	5.12	2617655	6.09
680-90855-3 MS	CV1017A-CS MS	1981033	4.03	1450393	5.12	2752445	6.09
680-90855-3 MSD	CV1017A-CS MSD	2115672	4.03	1552495	5.12	2944050	6.09
680-90855-1	CV0185A-CS	2117181	4.03	1574541	5.12	2931549	6.09
680-90855-2	CV0185A-CSD	2208138	4.03	1618281	5.12	3041878	6.09

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: CCVIS 660-138203/5 Date Analyzed: 06/07/2013 12:13

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CF07005.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5387017	8.05	5410820	9.37		
UPPER LIMIT		10774034	8.55	10821640	9.87		
LOWER LIMIT		2693509	7.55	2705410	8.87		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138117/1-A		3282334	8.05	3172951	9.37		
LCS 660-138117/2-A		3795207	8.05	3722094	9.37		
680-90855-3	CV1017A-CS	3315783	8.05	3103043	9.37		
680-90855-3 MS	CV1017A-CS MS	3314681	8.05	2819303	9.37		
680-90855-3 MSD	CV1017A-CS MSD	3515951	8.05	3029896	9.37		
680-90855-1	CV0185A-CS	3357770	8.05	3149702	9.37		
680-90855-2	CV0185A-CSD	3401543	8.05	3181219	9.37		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3209942	6.28	1824950	7.95	3071098	9.20
UPPER LIMIT		6419884	6.78	3649900	8.45	6142196	9.70
LOWER LIMIT		1604971	5.78	912475	7.45	1535549	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137830/10		3254661	6.28	1828493	7.95	3056039	9.21

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3009447	11.57	3048824	13.48		
UPPER LIMIT		6018894	12.07	6097648	13.98		
LOWER LIMIT		1504724	11.07	1524412	12.98		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137830/10		2992199	11.57	3010942	13.47		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: CCVIS 660-138205/4 Date Analyzed: 06/07/2013 12:17

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DF07004.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3268181	6.27	1761876	7.94	2916630	9.19
UPPER LIMIT		6536362	6.77	3523752	8.44	5833260	9.69
LOWER LIMIT		1634091	5.77	880938	7.44	1458315	8.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138156/1-A		3705122	6.26	2132330	7.93	3368643	9.19
LCS 660-138156/2-A		3415746	6.26	1984341	7.94	3217461	9.19
680-90855-A-21-B MS		3108408	6.26	1768798	7.94	2856839	9.19
680-90855-A-21-C MSD		3173766	6.26	1801670	7.93	2941176	9.19

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: CCVIS 660-138205/4 Date Analyzed: 06/07/2013 12:17

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DF07004.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2760869	11.55	2646512	13.46		
UPPER LIMIT		5521738	12.05	5293024	13.96		
LOWER LIMIT		1380435	11.05	1323256	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138156/1-A		3387293	11.55	3162996	13.46		
LCS 660-138156/2-A		3231448	11.55	3042857	13.45		
680-90855-A-21-B MS		2804268	11.55	2941999	13.46		
680-90855-A-21-C MSD		2896266	11.56	3027894	13.47		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: CCVIS 660-138352/3 Date Analyzed: 06/11/2013 12:00

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DF11003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3968569	6.26	2227186	7.93	3833653	9.19
UPPER LIMIT		7937138	6.76	4454372	8.43	7667306	9.69
LOWER LIMIT		1984285	5.76	1113593	7.43	1916827	8.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138190/1-A		3654869	6.26	2224135	7.93	3524277	9.19
LCS 660-138190/2-A		3534898	6.26	2200448	7.93	3645131	9.19
680-90855-4	CV1025A-CS	3637508	6.26	2130074	7.93	3395867	9.19
680-90855-5	CV1029A-CS	3642987	6.26	2120555	7.93	3424425	9.19
680-90855-6	CV1112A-CS	3449284	6.26	2038070	7.93	3278440	9.19
680-90855-7	CV1167A-CS	3632626	6.26	2145849	7.93	3492958	9.19
680-90855-8	CV1167B-CS	3364318	6.26	1975775	7.93	3178783	9.19
680-90855-9	FM0308A-CS	3507618	6.26	2055283	7.93	3276339	9.19
680-90855-10	FM0308A-CSD	3479727	6.26	2065749	7.93	3264252	9.19
680-90855-11	FM0308B-CS	3685230	6.26	2168432	7.93	3433459	9.19
680-90855-12	FM0308C-CS	3585128	6.26	2094319	7.93	3316636	9.19
680-90855-13	FM0308D-CS	3312557	6.26	1957835	7.93	3114997	9.19
680-90855-14	FM0308E-CS	3416453	6.26	2038174	7.93	3152575	9.19
680-90855-15	FM0308F-CS	3548105	6.27	2126302	7.94	3384878	9.19
680-90855-16	FM0097A-CS	3735552	6.26	2192076	7.93	3507964	9.20
680-90855-17	FM0097A-CSD	3723372	6.26	2183532	7.94	3451890	9.19
680-90855-18	FM0097B-CS	3568426	6.27	2110221	7.94	3385293	9.20
680-90855-19	FM0097C-CS	3598230	6.26	2141797	7.94	3443851	9.20
680-90855-20	FM0097D-CS	3263866	6.27	1916110	7.93	3067182	9.20
680-91068-A-12-B MS		3488925	6.27	2059304	7.94	3299313	9.20
680-91068-A-12-C MSD		3183581	6.27	1881635	7.94	3037557	9.20

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Sample No.: CCVIS 660-138352/3 Date Analyzed: 06/11/2013 12:00

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DF11003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3693716	11.56	3237119	13.47		
UPPER LIMIT		7387432	12.06	6474238	13.97		
LOWER LIMIT		1846858	11.06	1618560	12.97		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138190/1-A		3660370	11.55	3242645	13.46		
LCS 660-138190/2-A		3632829	11.55	3183022	13.46		
680-90855-4	CV1025A-CS	3253007	11.55	2714114	13.46		
680-90855-5	CV1029A-CS	3104422	11.56	2677570	13.47		
680-90855-6	CV1112A-CS	2993694	11.55	2687716	13.46		
680-90855-7	CV1167A-CS	3236271	11.56	2875773	13.47		
680-90855-8	CV1167B-CS	2991445	11.55	2713887	13.47		
680-90855-9	FM0308A-CS	2983173	11.56	2723017	13.47		
680-90855-10	FM0308A-CSD	2943125	11.56	2643750	13.47		
680-90855-11	FM0308B-CS	3072750	11.56	2726058	13.48		
680-90855-12	FM0308C-CS	2954013	11.56	2707818	13.48		
680-90855-13	FM0308D-CS	2893000	11.56	2672640	13.49		
680-90855-14	FM0308E-CS	2899791	11.56	2651983	13.48		
680-90855-15	FM0308F-CS	3035666	11.57	2727467	13.48		
680-90855-16	FM0097A-CS	3166312	11.57	2805067	13.49		
680-90855-17	FM0097A-CSD	3118614	11.57	2739638	13.48		
680-90855-18	FM0097B-CS	3021505	11.57	2598955	13.49		
680-90855-19	FM0097C-CS	3040744	11.57	2627395	13.49		
680-90855-20	FM0097D-CS	2747493	11.57	2352800	13.48		
680-91068-A-12-B MS		3264426	11.58	2602655	13.50		
680-91068-A-12-C MSD		3015552	11.58	2341183	13.50		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV0185A-CS | Lab Sample ID: 680-90855-1

Matrix: Solid | Lab File ID: 1CF07037.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 08:50

Extract. Method: 3546 | Date Extracted: 06/06/2013 14:10

Sample wt/vol: 15.13(g) | Date Analyzed: 06/07/2013 22:01

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

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

% Moisture: 11.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	18	J	45	5.6
120-12-7	Anthracene	17		9.4	4.7
56-55-3	Benzo[a]anthracene	140		9.0	4.4
50-32-8	Benzo[a]pyrene	160		12	5.8
205-99-2	Benzo[b]fluoranthene	320		14	6.8
191-24-2	Benzo[g,h,i]perylene	170		22	4.9
207-08-9	Benzo[k]fluoranthene	91		9.0	4.0
218-01-9	Chrysene	190		10	5.1
53-70-3	Dibenz(a,h)anthracene	38		22	4.6
206-44-0	Fluoranthene	220		22	4.5
86-73-7	Fluorene	17	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	130		22	8.0
90-12-0	1-Methylnaphthalene	75		45	4.9
91-57-6	2-Methylnaphthalene	95		45	8.0
91-20-3	Naphthalene	91		45	4.9
85-01-8	Phenanthrene	160		9.0	4.4
129-00-0	Pyrene	200		22	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07037.D
Lab Smp Id: 680-90855-A-1-A Client Smp ID: CV0185A-CS
Inj Date : 07-JUN-2013 22:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90855-a-1-a
Misc Info : 680-90855-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 37
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	15.130	Weight Extracted
M	11.686	% 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/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.033	4.033	(1.000)	2117181	40.0000	
*	6 Acenaphthene-d10	164	5.121	5.116	(1.000)	1574541	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2931549	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	222939	4.88194	365.3639
*	18 Chrysene-d12	240	8.050	8.051	(1.000)	3357770	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	3149702	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	72829	1.21896	91.2272
	3 2-Methylnaphthalene	142	4.468	4.468	(1.108)	41932	1.26531	94.6959
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	32502	0.99684	74.6033
	5 Acenaphthylene	152	5.033	5.033	(0.983)	14481	0.23991	17.9545
	7 Acenaphthene	154	5.133	5.139	(1.002)	5726	0.15127	11.3212
	9 Fluorene	166	5.462	5.463	(1.067)	10996	0.22767	17.0388(Q)
	11 Phenanthrene	178	6.104	6.104	(1.003)	188774	2.17958	163.1194
	12 Anthracene	178	6.139	6.139	(1.009)	18593	0.23172	17.3419

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.239	6.239	(1.025)	20218	0.38462	28.7849
15 Fluoranthene	202	6.951	6.951	(1.142)	265591	3.00009	224.5267
16 Pyrene	202	7.121	7.121	(0.885)	240150	2.64861	198.2216
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	177163	1.91344	143.2016
19 Chrysene	228	8.068	8.068	(1.002)	233574	2.50562	187.5200
20 Benzo(b)fluoranthene	252	8.974	8.968	(0.957)	327602	4.23332	316.8211
21 Benzo(k)fluoranthene	252	8.997	8.998	(0.960)	104830	1.21285	90.7698(Q)
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	160450	2.12813	159.2687
24 Indeno(1,2,3-cd)pyrene	276	10.744	10.745	(1.146)	131454	1.71890	128.6420(M)
25 Dibenzo(a,h)anthracene	278	10.768	10.762	(1.149)	33758	0.50215	37.5806
26 Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	170173	2.32564	174.0508

QC Flag Legend

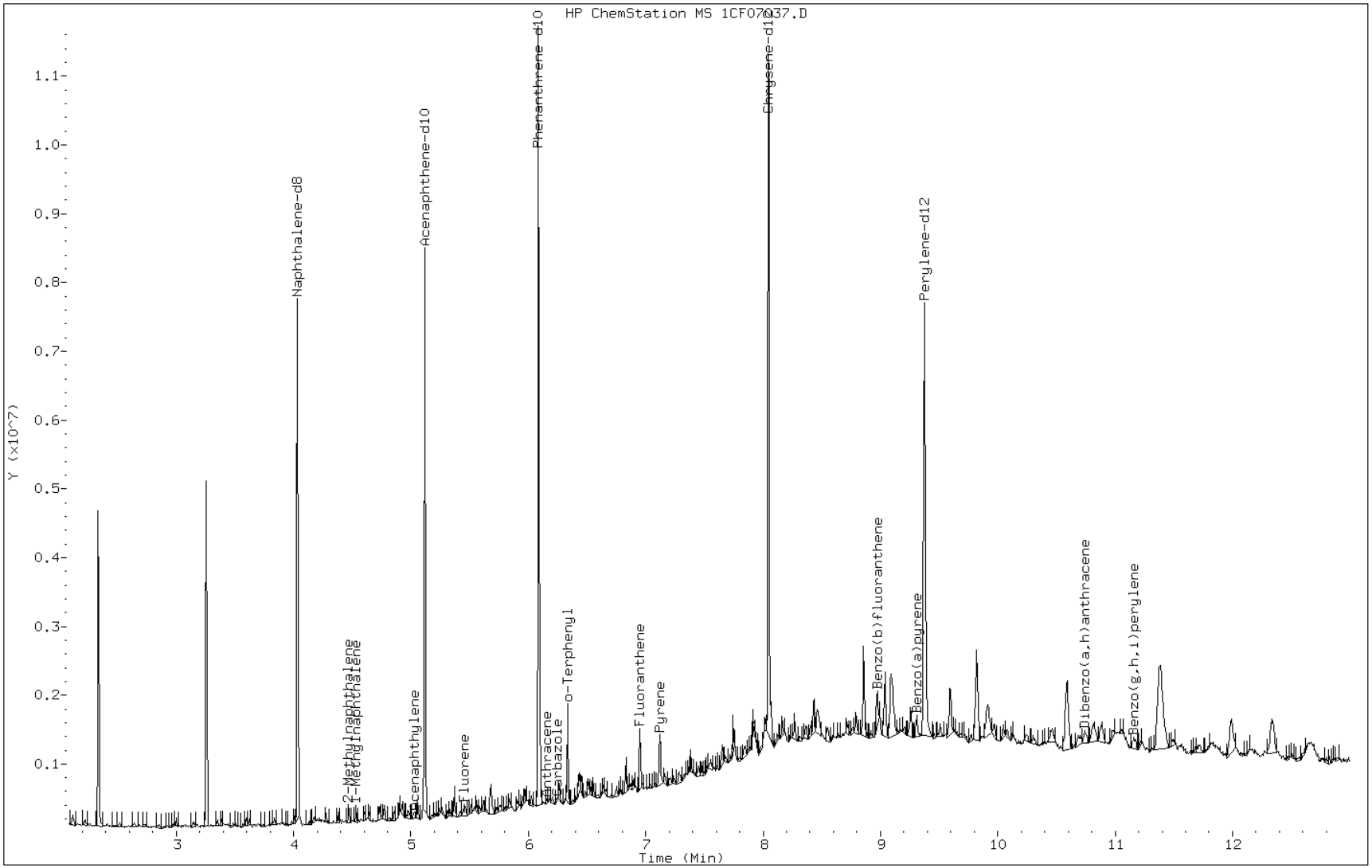
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC



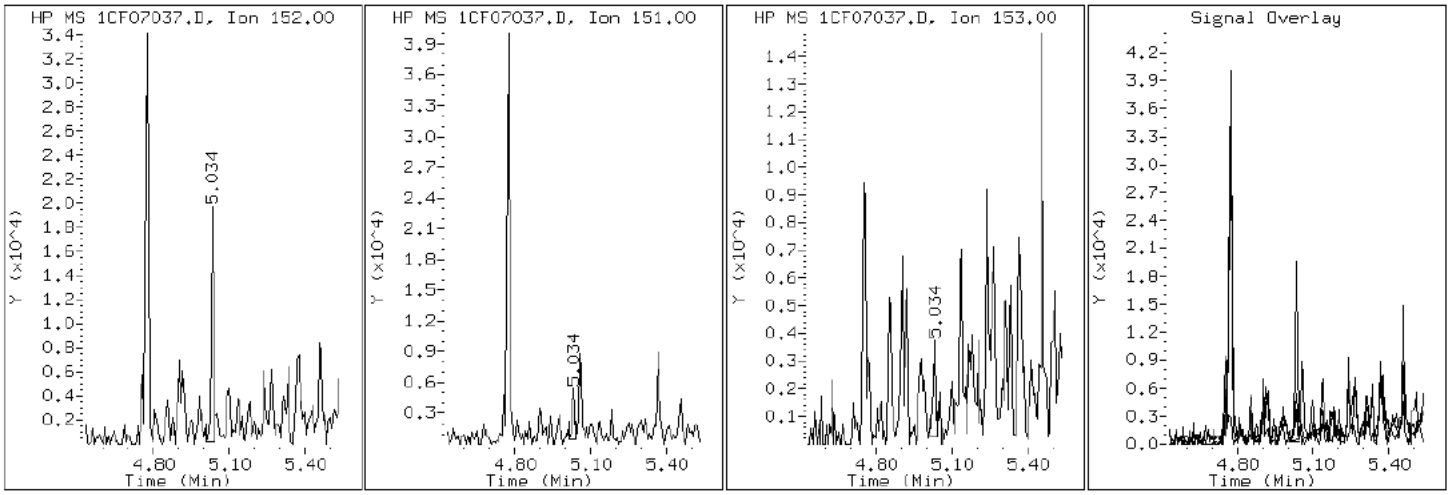
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

5 Acenaphthylene



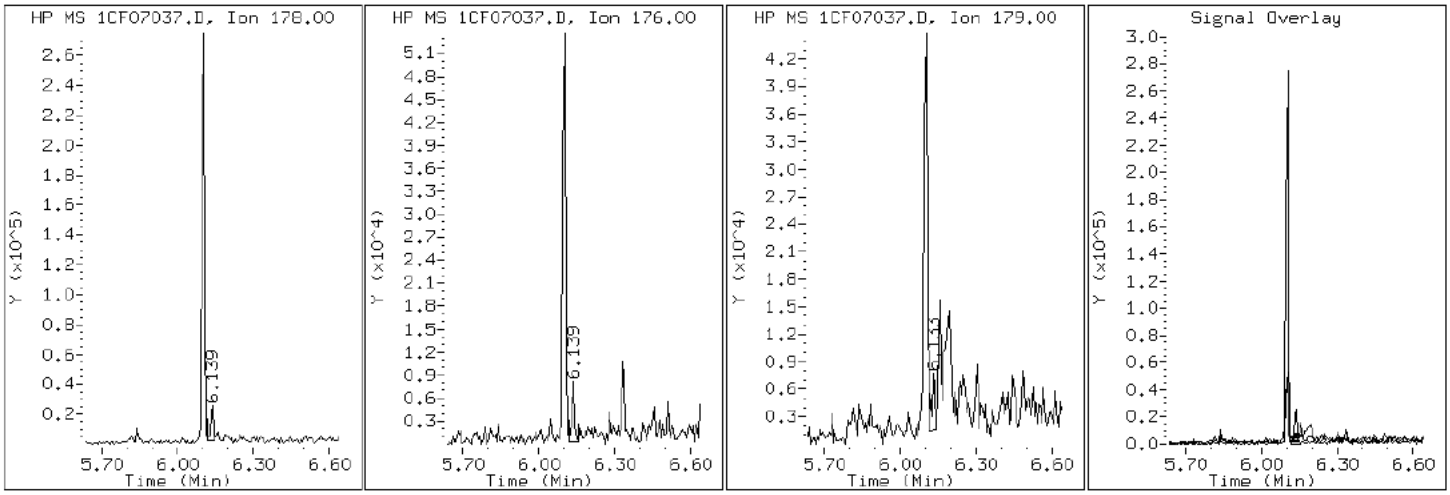
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

12 Anthracene



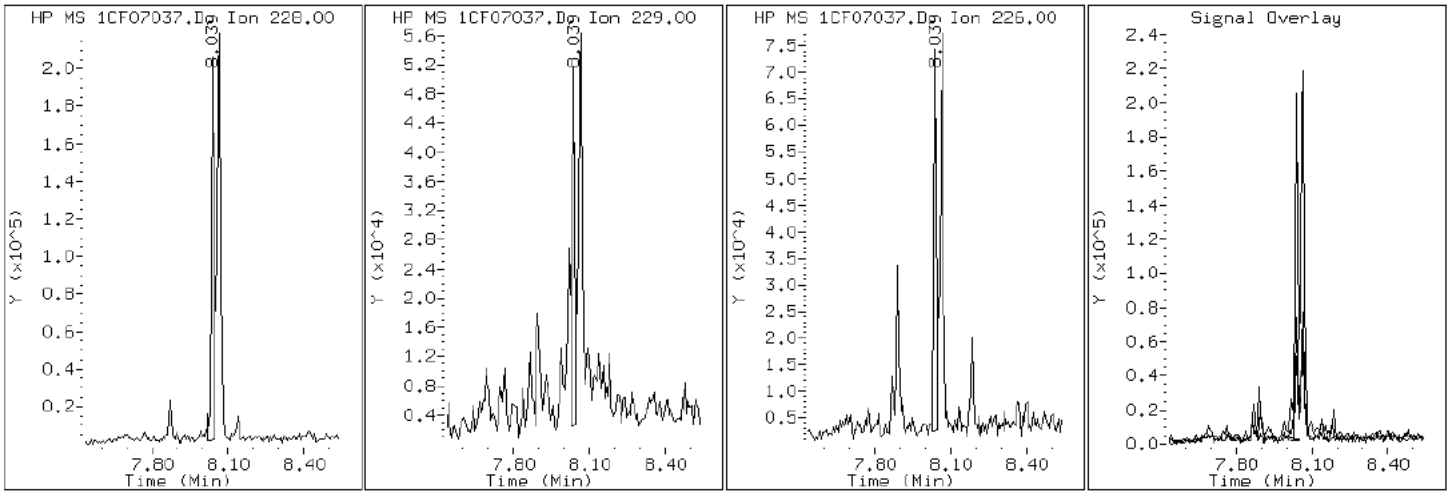
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

17 Benzo(a)anthracene



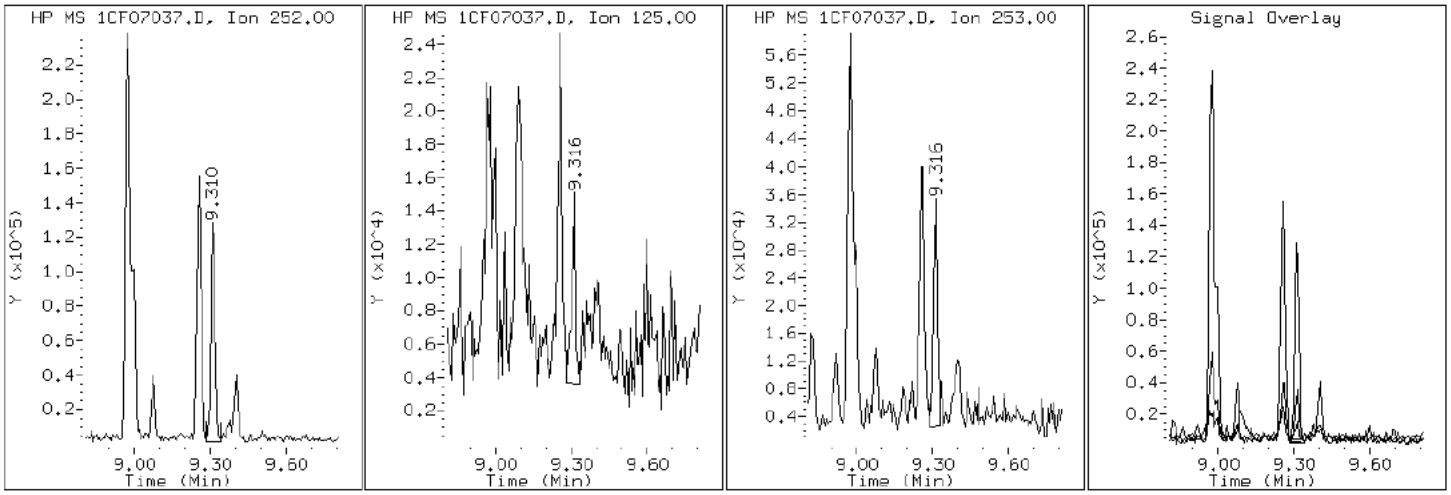
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

22 Benzo(a)pyrene



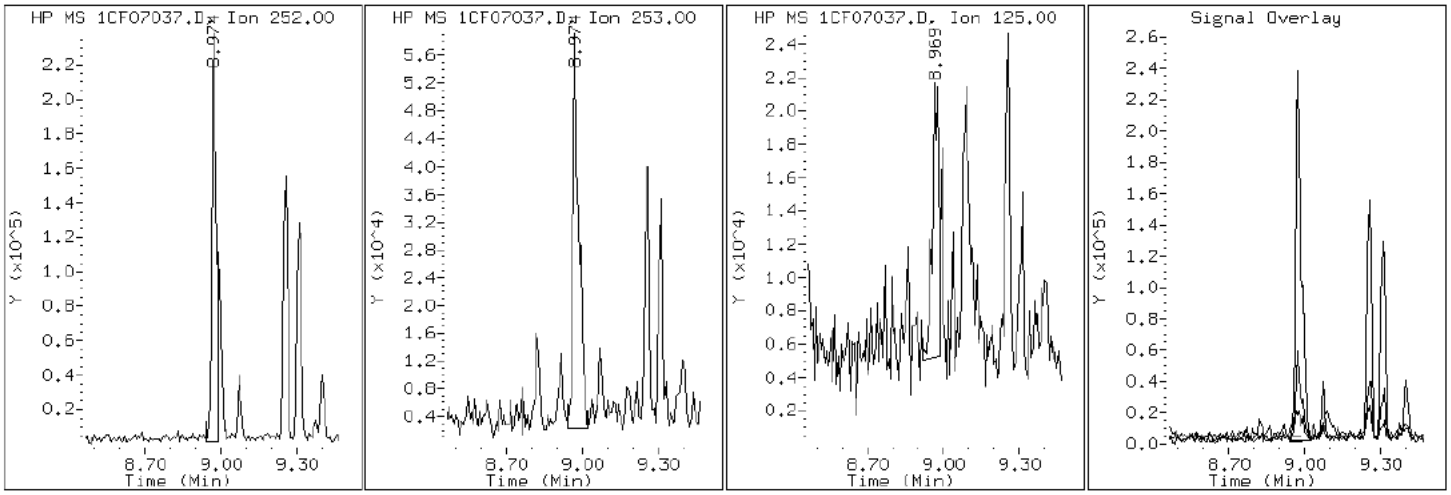
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



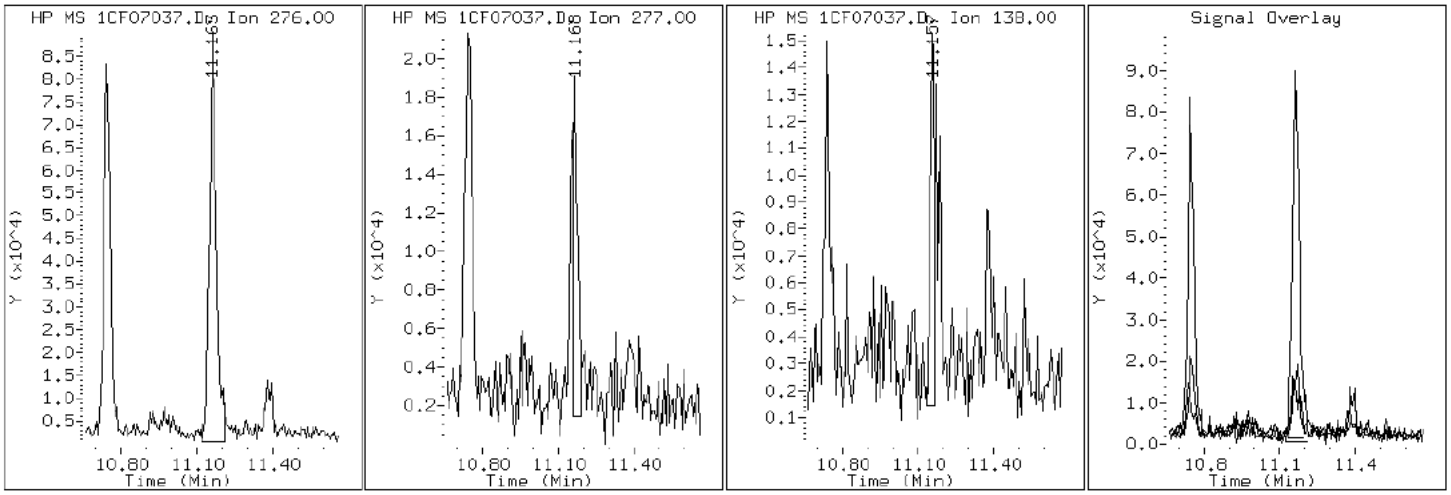
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



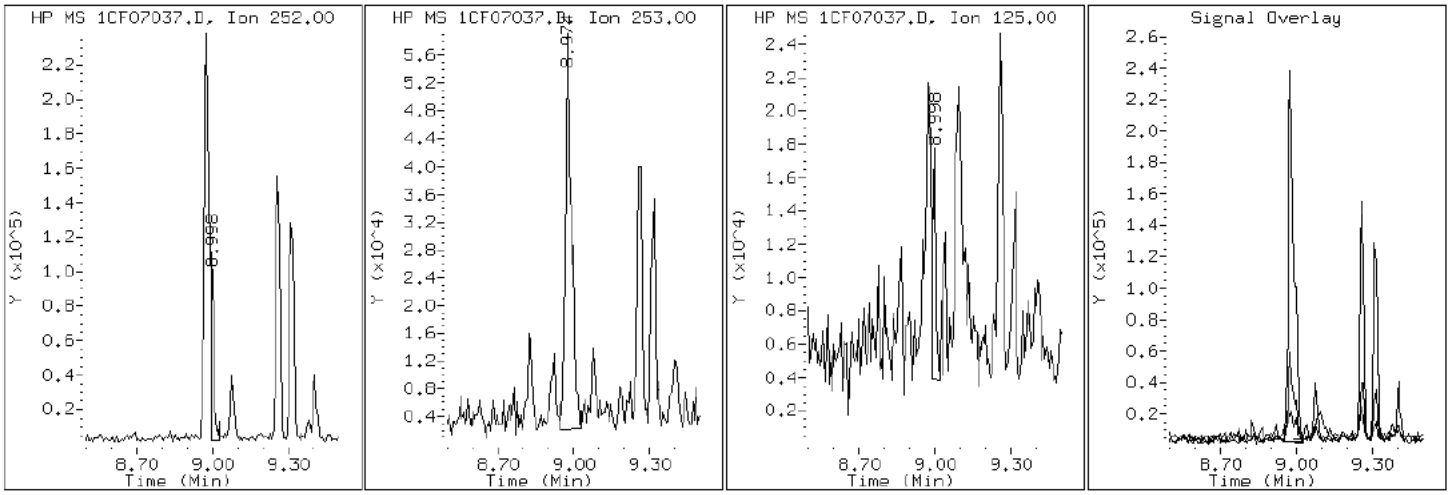
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



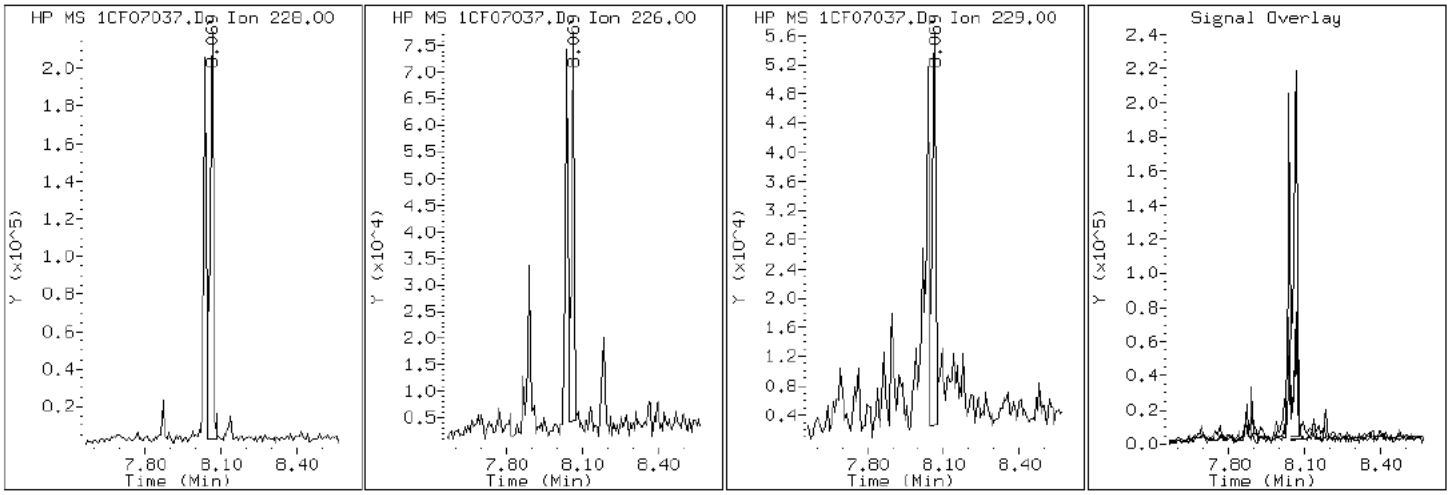
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

19 Chrysene



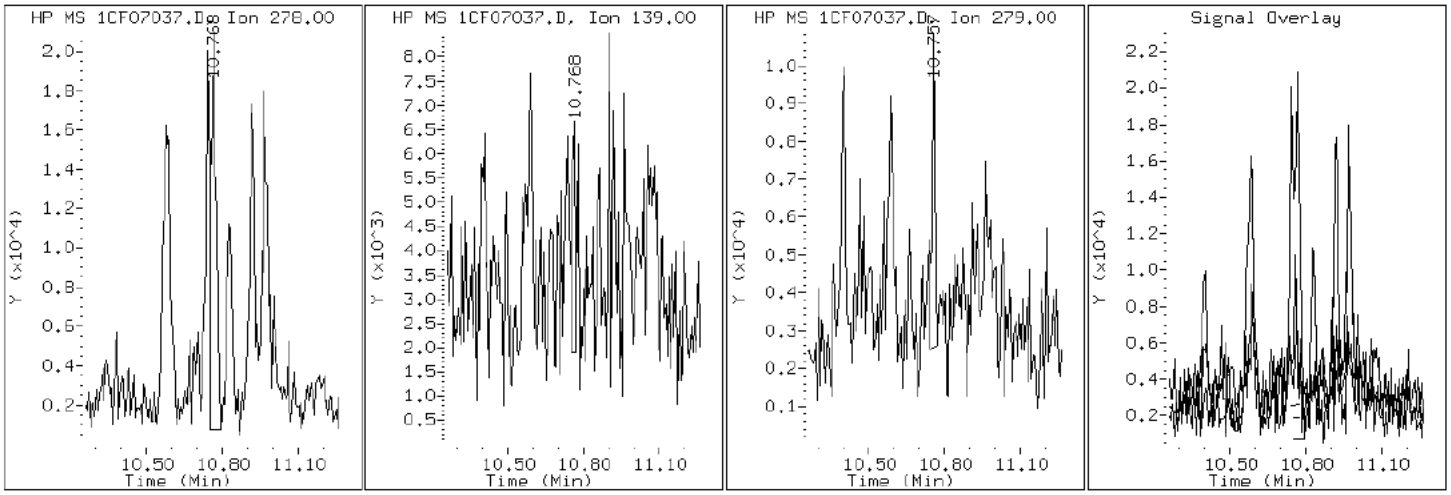
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



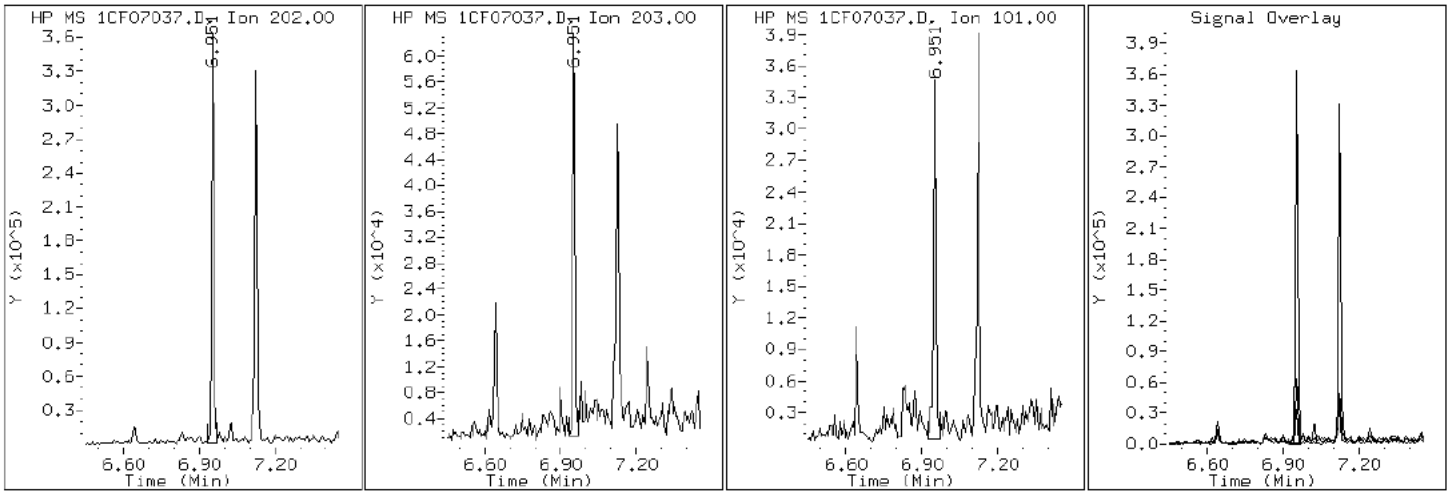
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

15 Fluoranthene



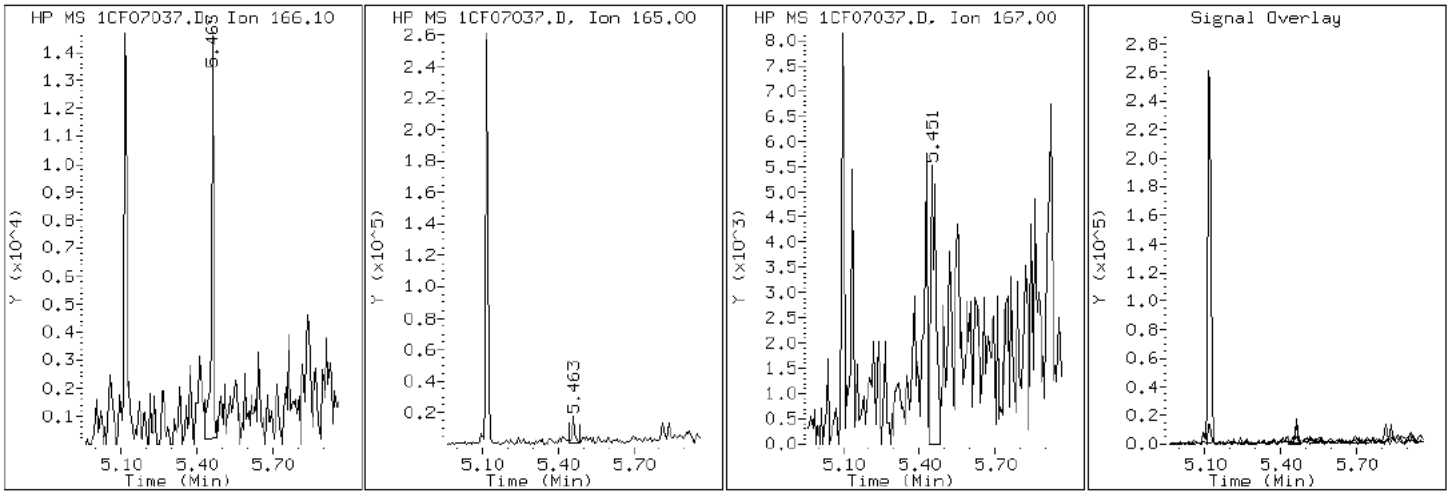
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

9 Fluorene



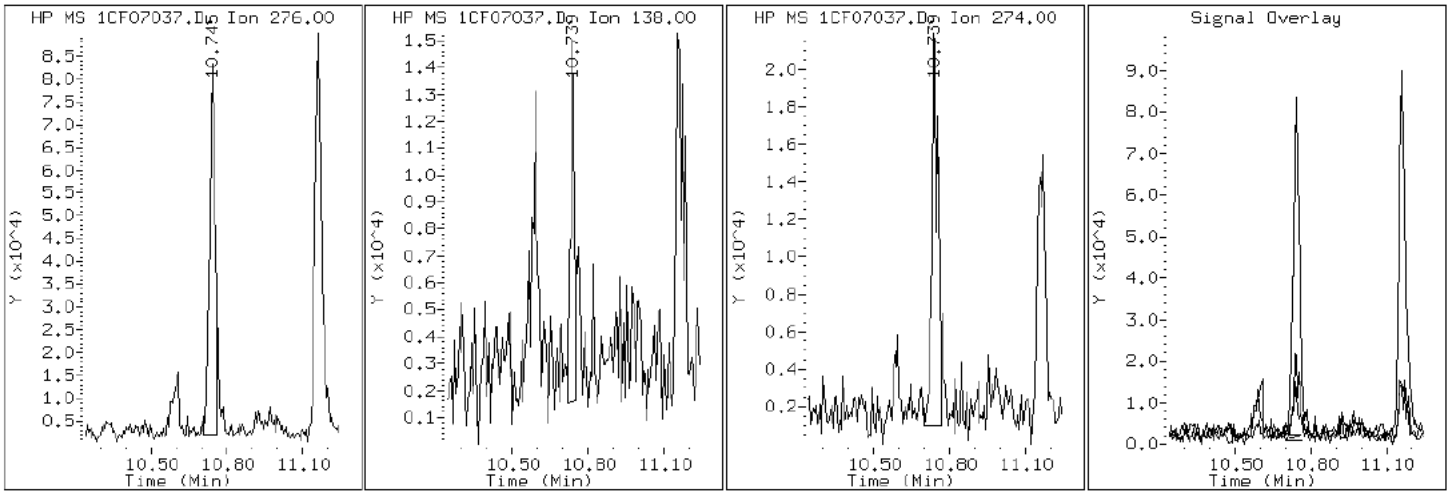
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

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



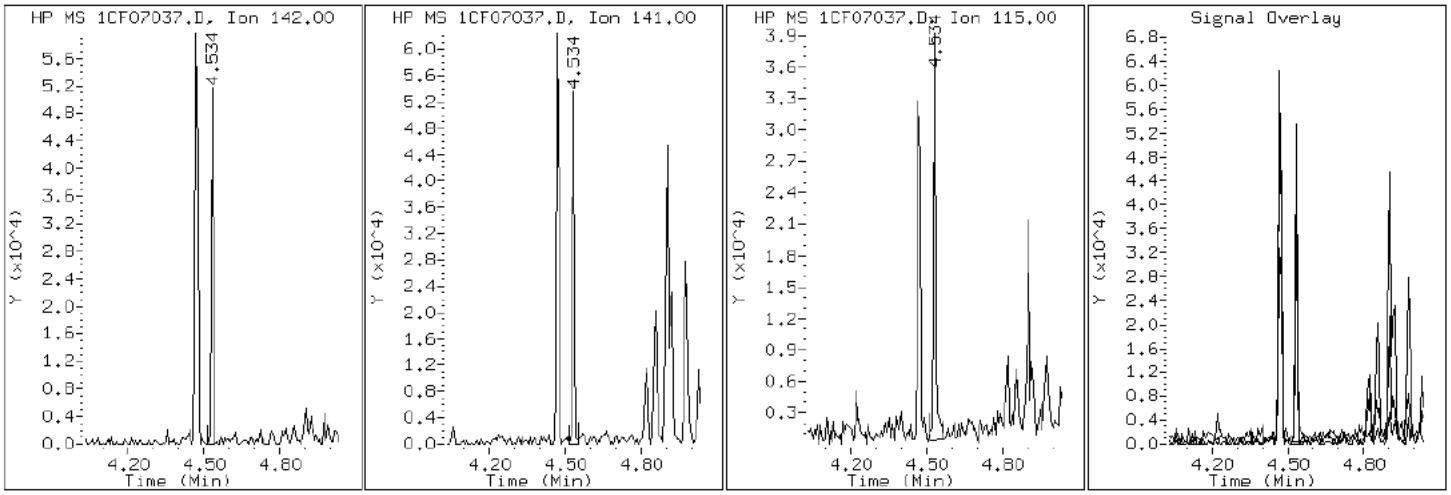
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

4 1-Methylnaphthalene



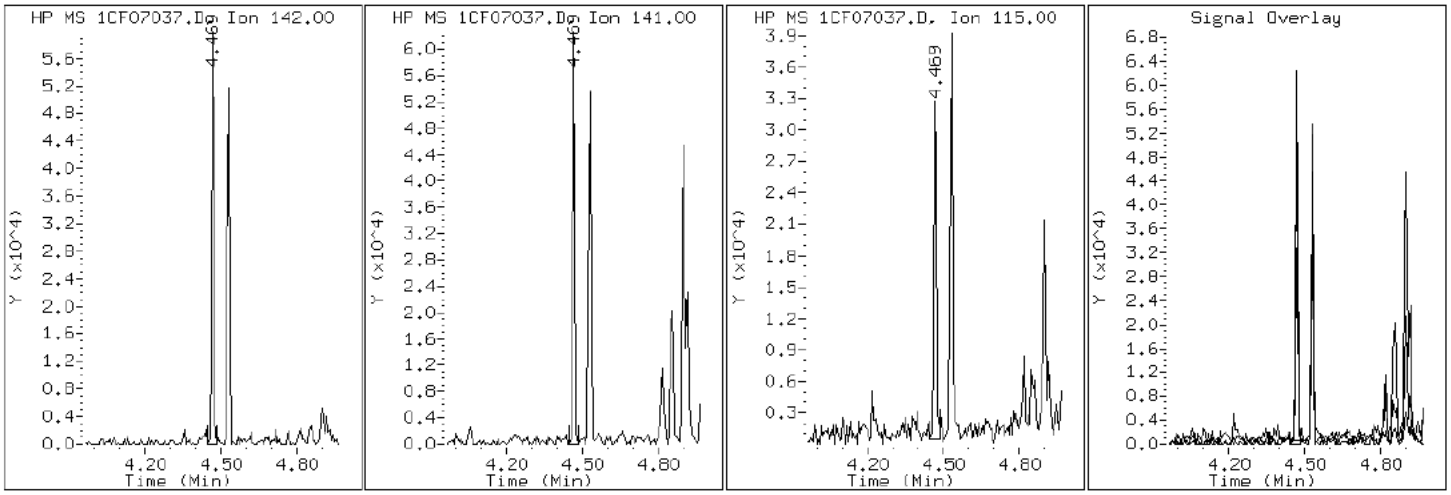
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

3 2-Methylnaphthalene



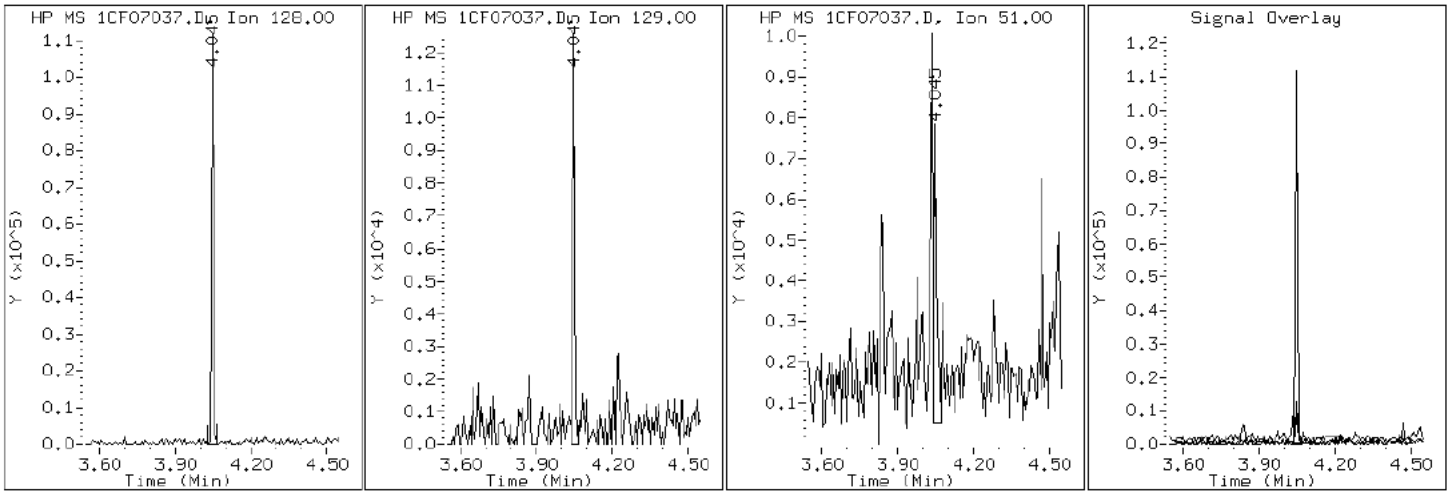
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

2 Naphthalene



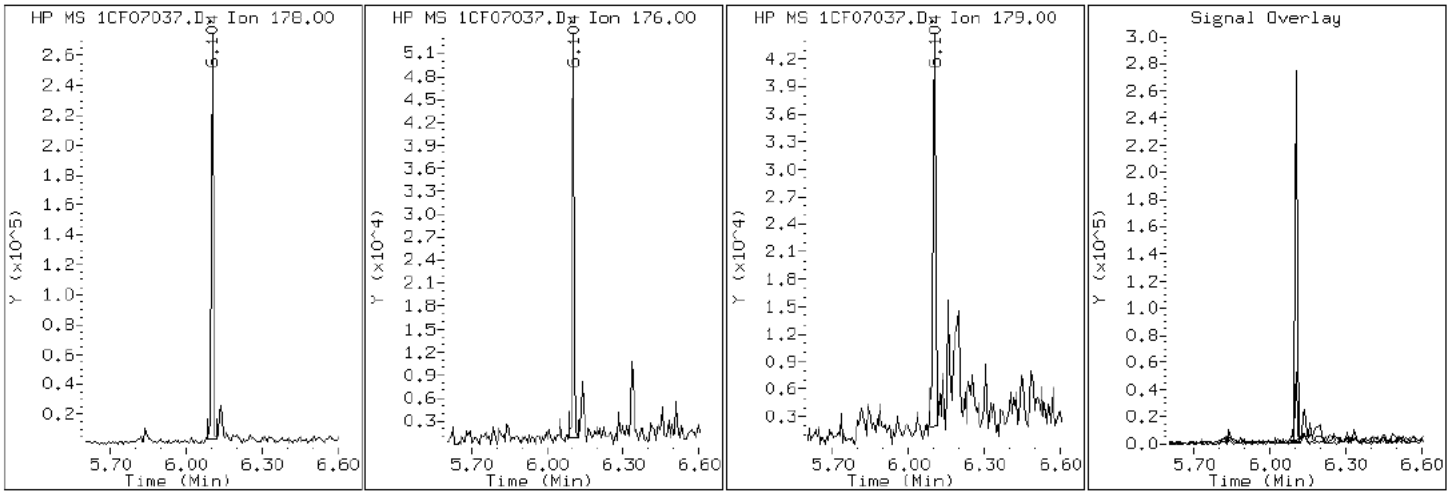
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

11 Phenanthrene



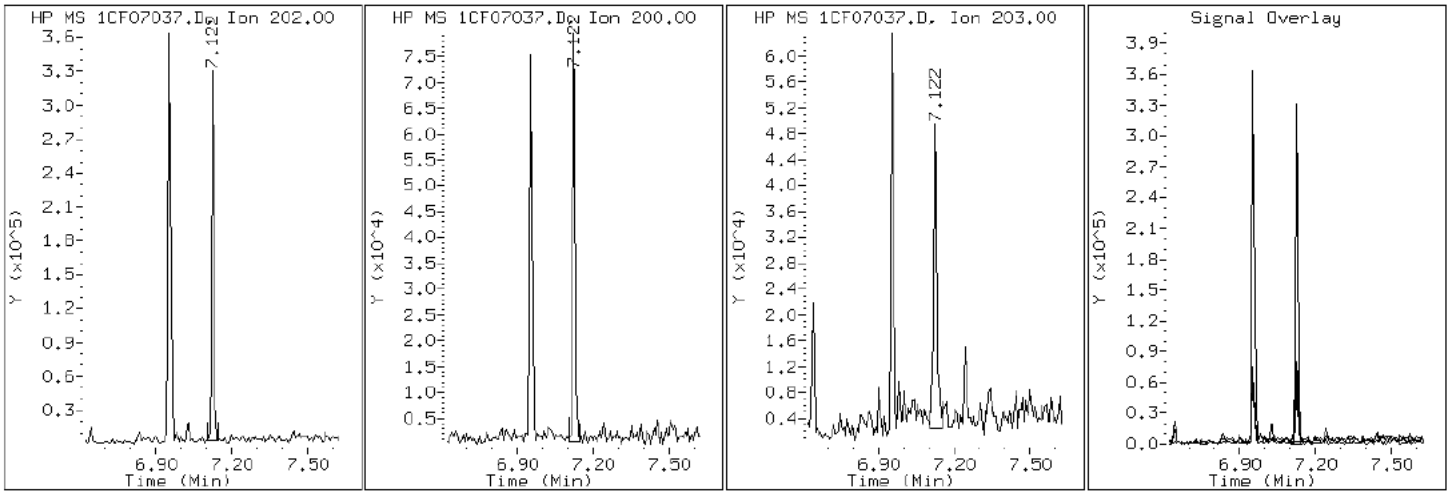
Data File: 1CF07037.D

Date: 07-JUN-2013 22:01

Client ID: CV0185A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07037.D
Inj. Date and Time: 07-JUN-2013 22:01
Instrument ID: BSMC5973.i
Client ID: CV0185A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

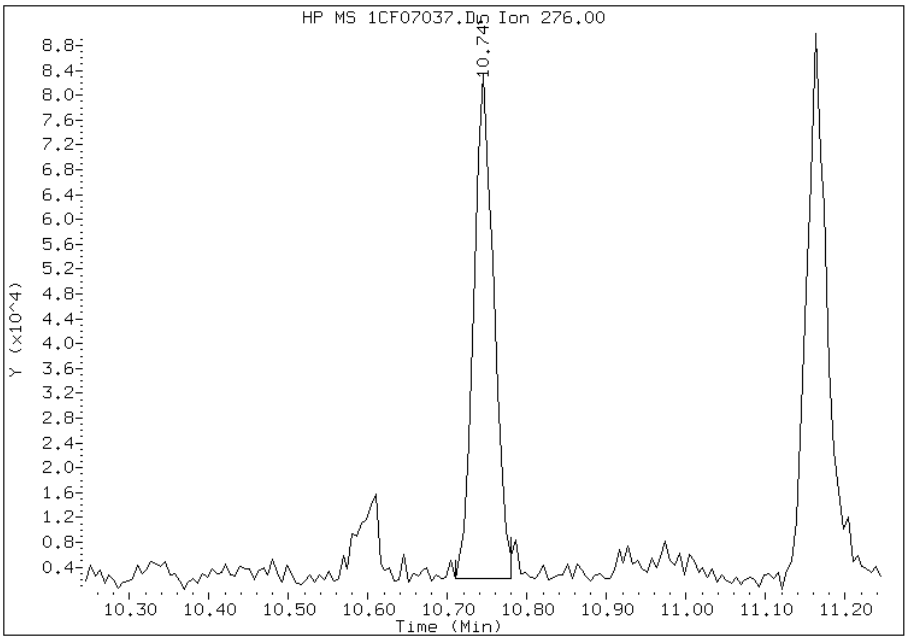
Processing Integration Results

RT: 10.74

Response: 141082

Amount: 2

Conc: 137



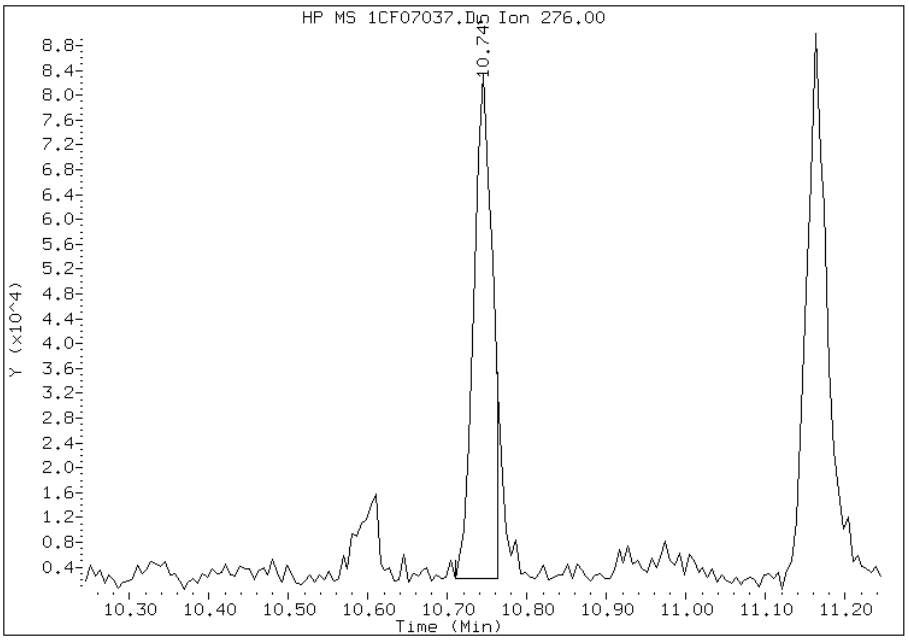
Manual Integration Results

RT: 10.74

Response: 131454

Amount: 2

Conc: 129



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV0185A-CSD | Lab Sample ID: 680-90855-2

Matrix: Solid | Lab File ID: 1CF07038.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 08:50

Extract. Method: 3546 | Date Extracted: 06/06/2013 14:10

Sample wt/vol: 14.95(g) | Date Analyzed: 06/07/2013 22:19

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

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

% Moisture: 12.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	12	J	46	5.7
120-12-7	Anthracene	18		9.6	4.8
56-55-3	Benzo[a]anthracene	110		9.1	4.5
50-32-8	Benzo[a]pyrene	120		12	5.9
205-99-2	Benzo[b]fluoranthene	240		14	7.0
191-24-2	Benzo[g,h,i]perylene	120		23	5.0
207-08-9	Benzo[k]fluoranthene	61		9.1	4.1
218-01-9	Chrysene	160		10	5.1
53-70-3	Dibenz(a,h)anthracene	33		23	4.7
206-44-0	Fluoranthene	160		23	4.6
86-73-7	Fluorene	12	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	100		23	8.1
90-12-0	1-Methylnaphthalene	73		46	5.0
91-57-6	2-Methylnaphthalene	90		46	8.1
91-20-3	Naphthalene	57		46	5.0
85-01-8	Phenanthrene	130		9.1	4.5
129-00-0	Pyrene	150		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07038.D
Lab Smp Id: 680-90855-A-2-A Client Smp ID: CV0185A-CSD
Inj Date : 07-JUN-2013 22:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90855-a-2-a
Misc Info : 680-90855-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 38
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	14.950	Weight Extracted
M	12.222	% 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/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.033	4.033	(1.000)	2208138	40.0000	
*	6 Acenaphthene-d10	164	5.122	5.116	(1.000)	1618281	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	3041878	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	289990	6.11991	466.3561
*	18 Chrysene-d12	240	8.051	8.051	(1.000)	3401543	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	3181219	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	46825	0.75144	57.2623
	3 2-Methylnaphthalene	142	4.469	4.468	(1.108)	40648	1.17604	89.6182
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	32589	0.95834	73.0282
	5 Acenaphthylene	152	5.033	5.033	(0.983)	10091	0.16266	12.3951
	9 Fluorene	166	5.463	5.463	(1.067)	7669	0.15449	11.7728(Q)
	11 Phenanthrene	178	6.104	6.104	(1.003)	153551	1.70859	130.2000
	12 Anthracene	178	6.139	6.139	(1.009)	19794	0.23774	18.1165
	13 Carbazole	167	6.239	6.239	(1.025)	10915	0.25520	19.4470

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.951	6.951	(1.142)	188725	2.05450	156.5594
16 Pyrene	202	7.121	7.121	(0.885)	180640	1.96664	149.8639
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	135375	1.44329	109.9836
19 Chrysene	228	8.068	8.068	(1.002)	199549	2.11307	161.0228
20 Benzo(b)fluoranthene	252	8.974	8.968	(0.957)	249033	3.18616	242.7951(M)
21 Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	70024	0.80213	61.1249(QM)
22 Benzo(a)pyrene	252	9.315	9.309	(0.994)	113748	1.52379	116.1172
24 Indeno(1,2,3-cd)pyrene	276	10.739	10.745	(1.146)	99565	1.32864	101.2465(M)
25 Dibenzo(a,h)anthracene	278	10.768	10.762	(1.149)	29773	0.43848	33.4137(M)
26 Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	112486	1.52204	115.9844(M)

QC Flag Legend

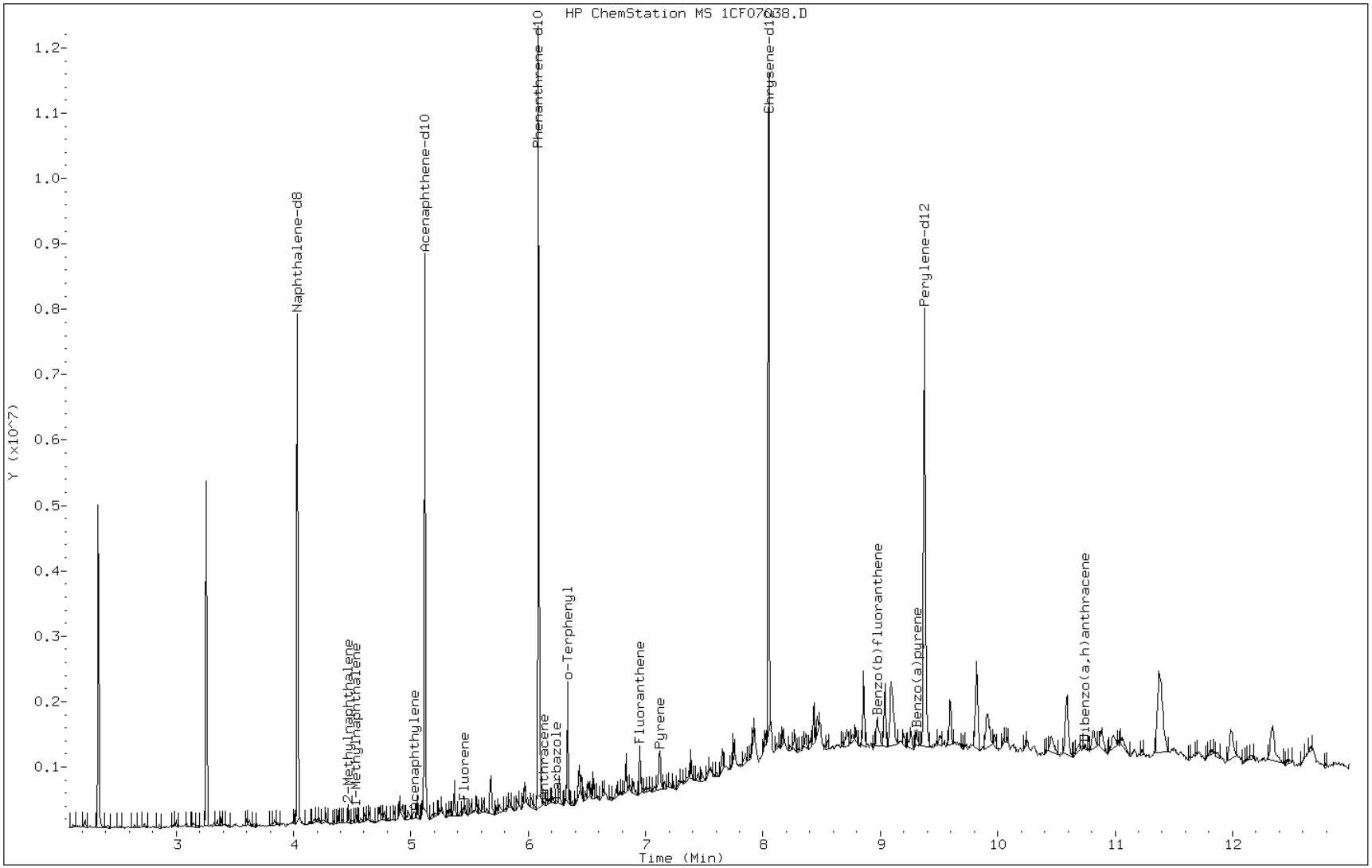
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC



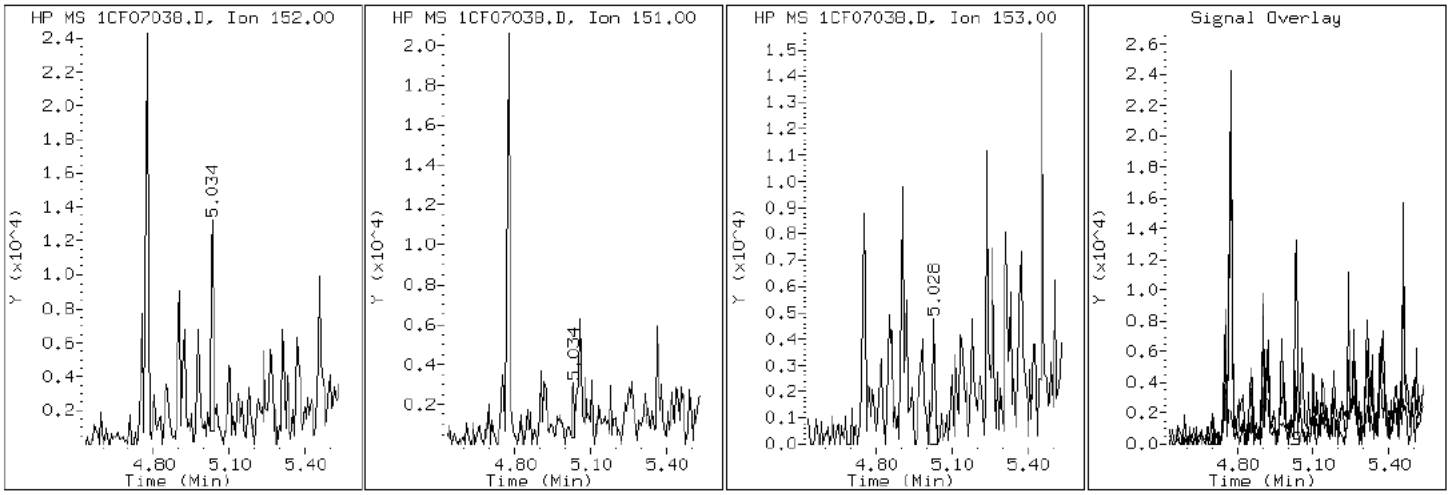
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

5 Acenaphthylene



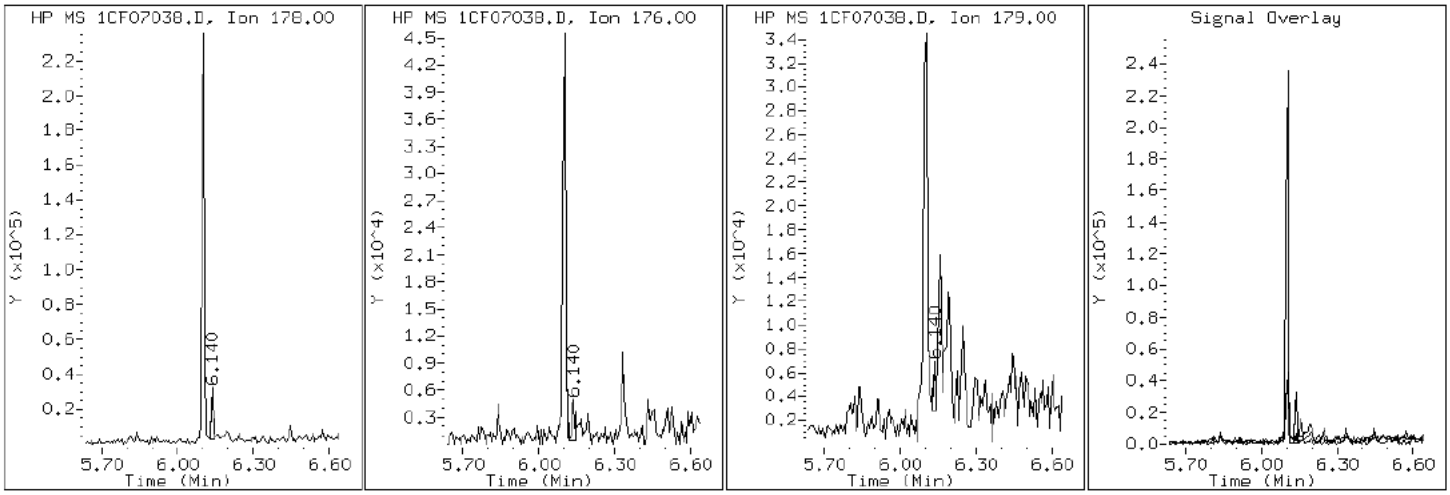
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

12 Anthracene



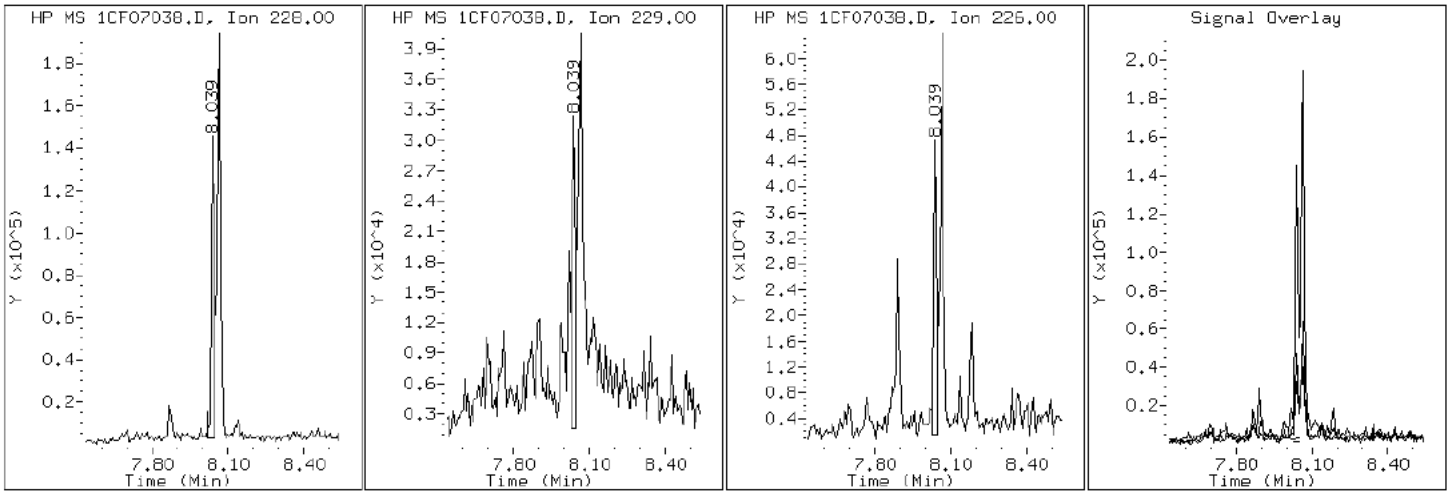
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

17 Benzo(a)anthracene



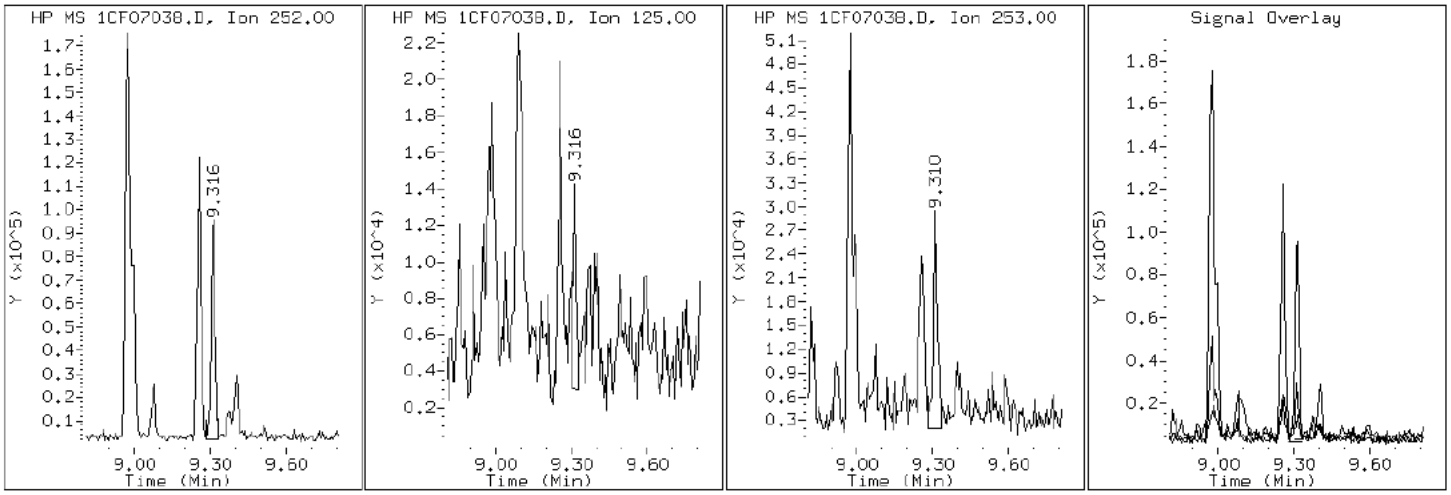
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

22 Benzo(a)pyrene



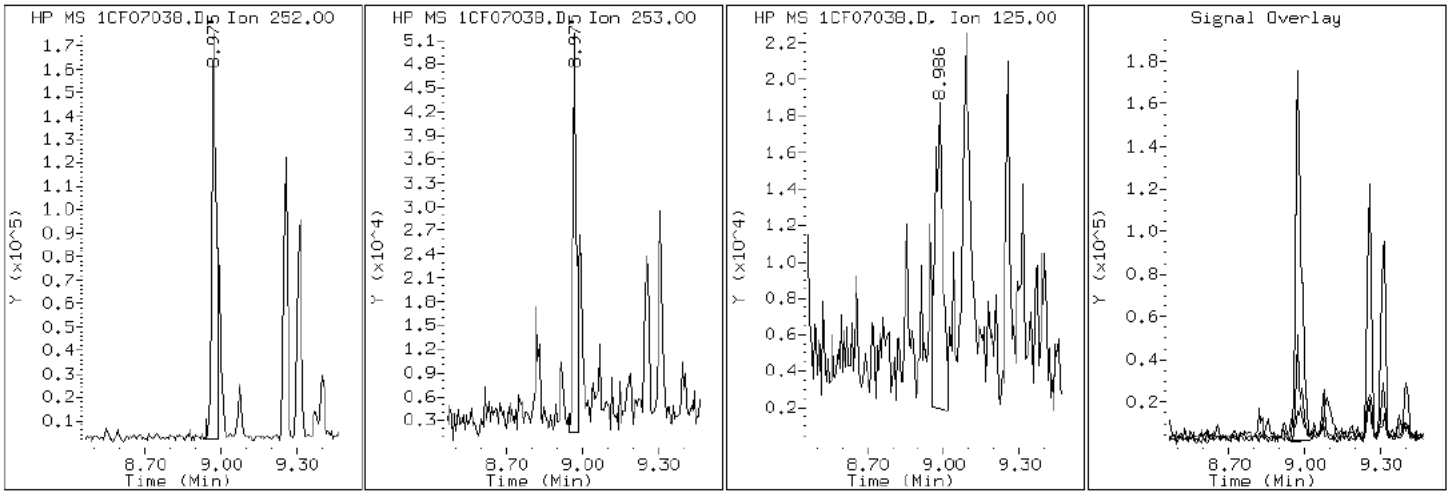
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



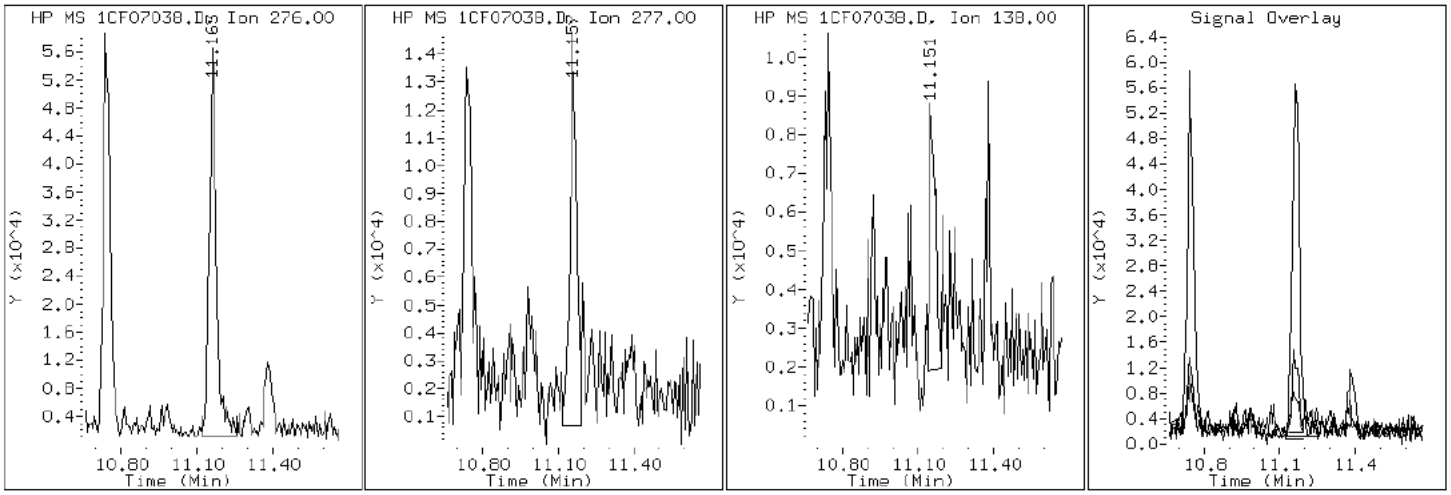
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



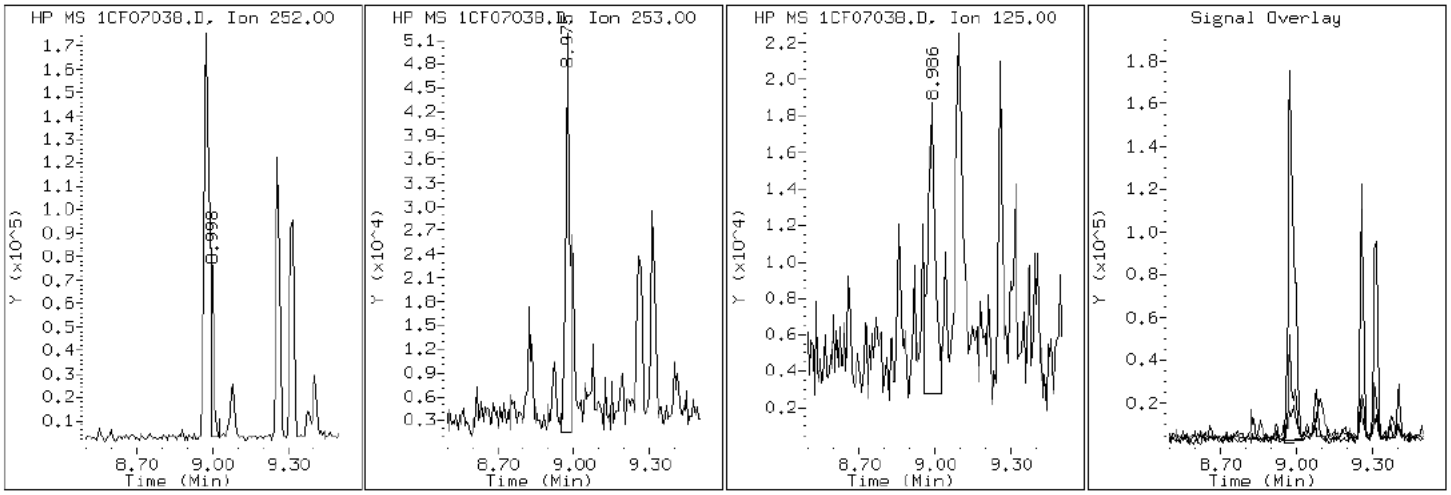
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



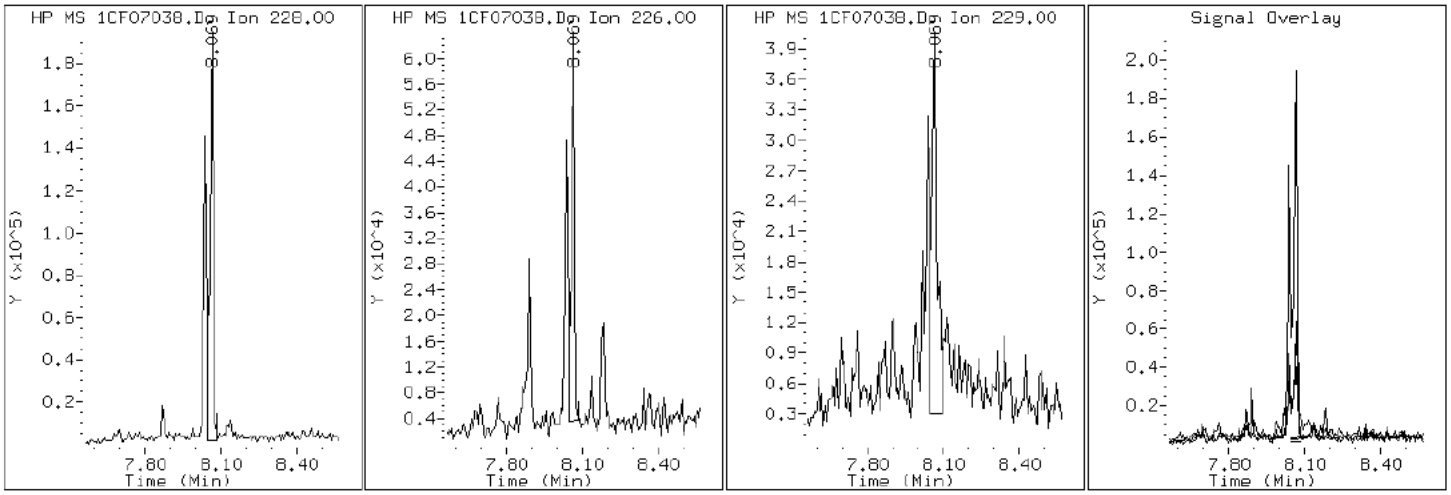
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

19 Chrysene



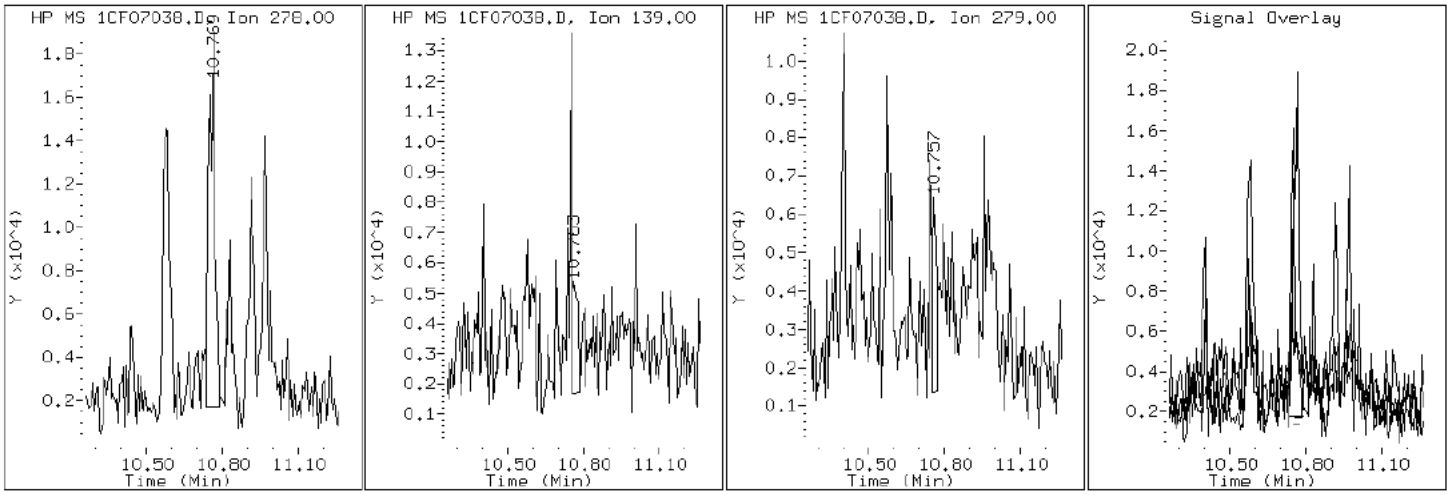
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



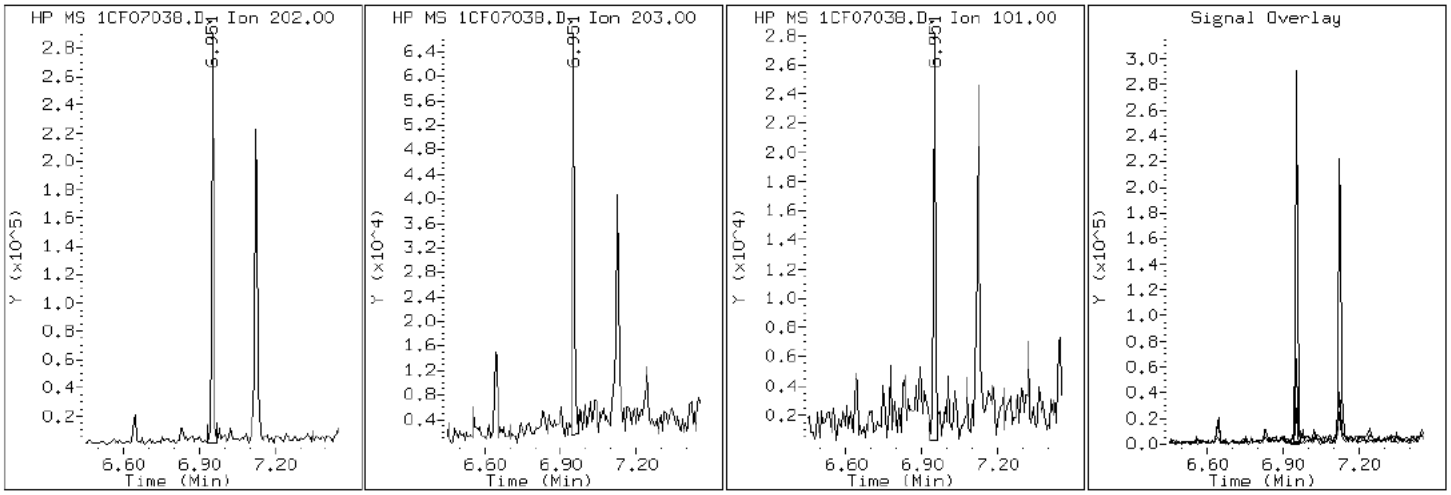
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

15 Fluoranthene



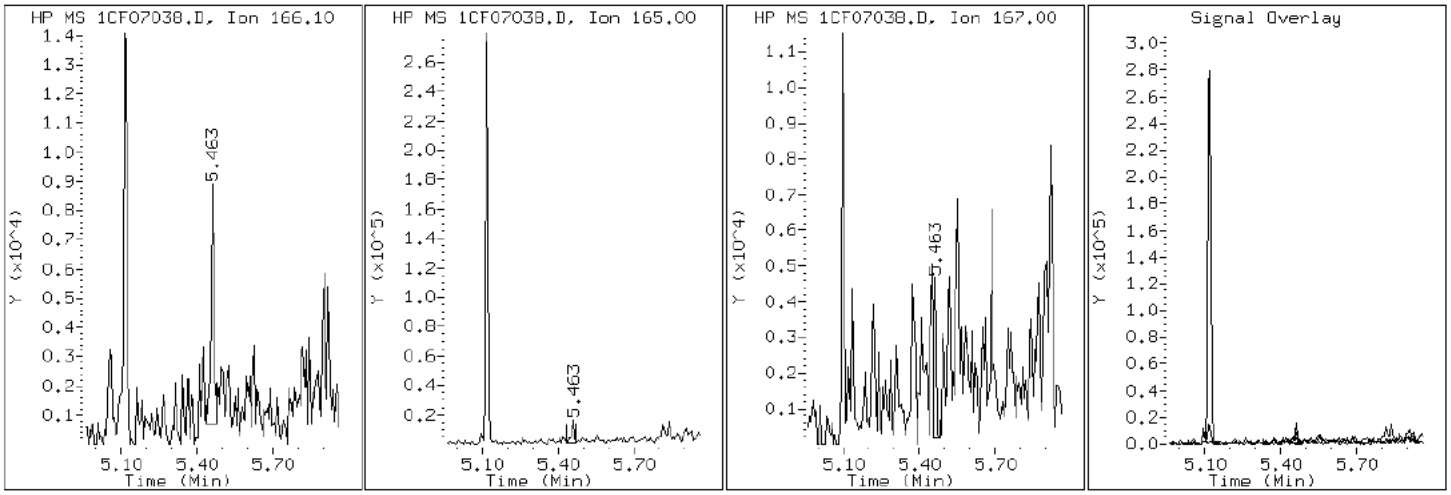
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

9 Fluorene



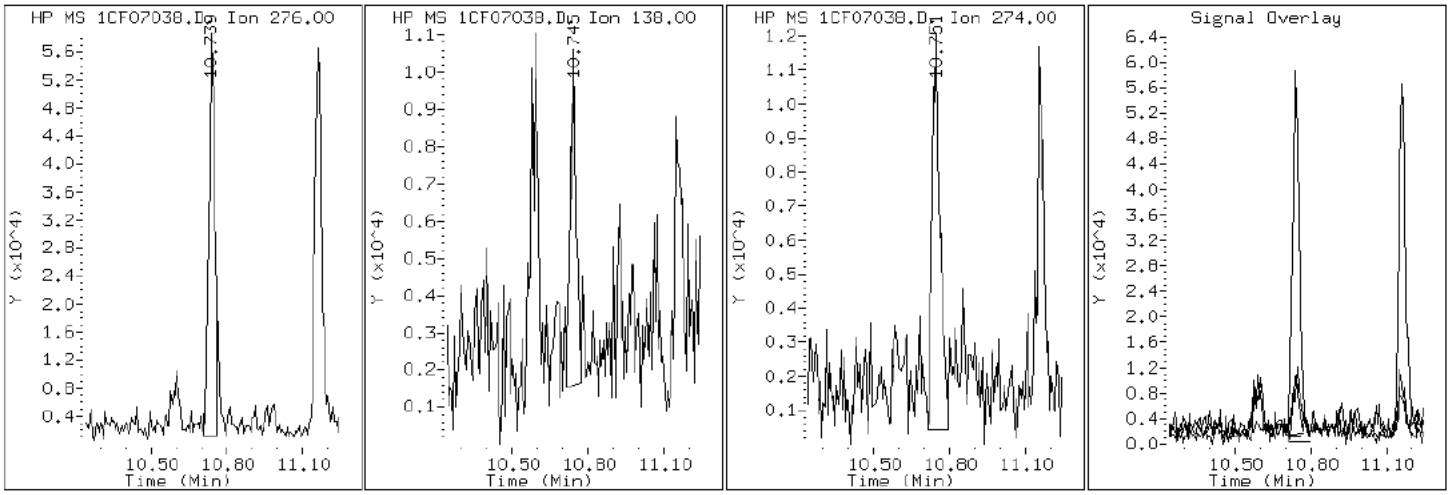
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

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



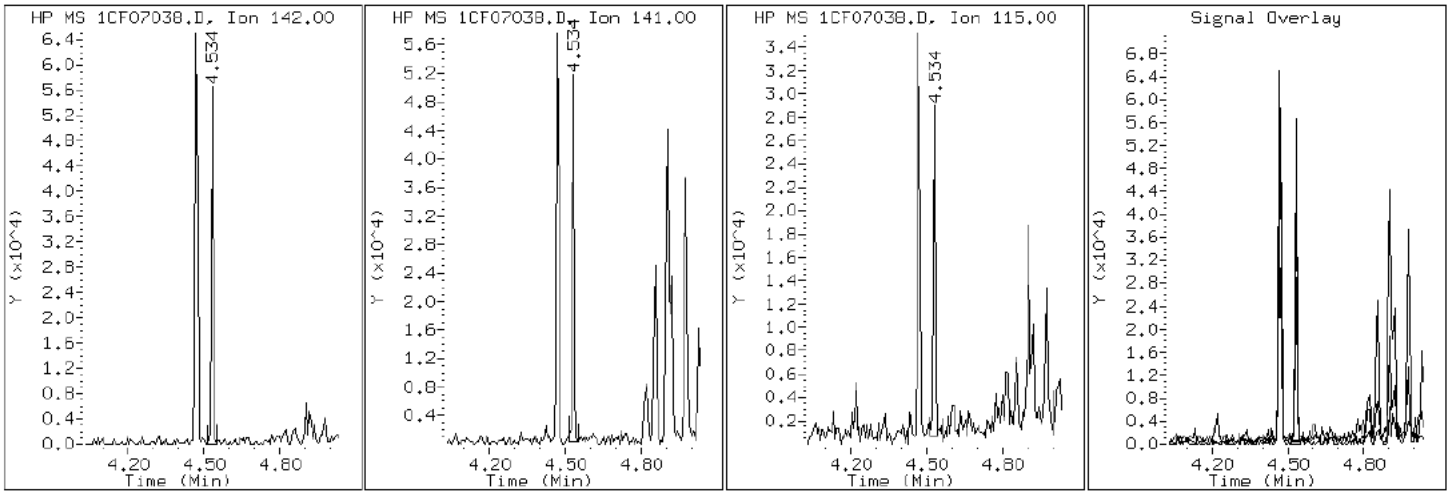
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

4 1-Methylnaphthalene



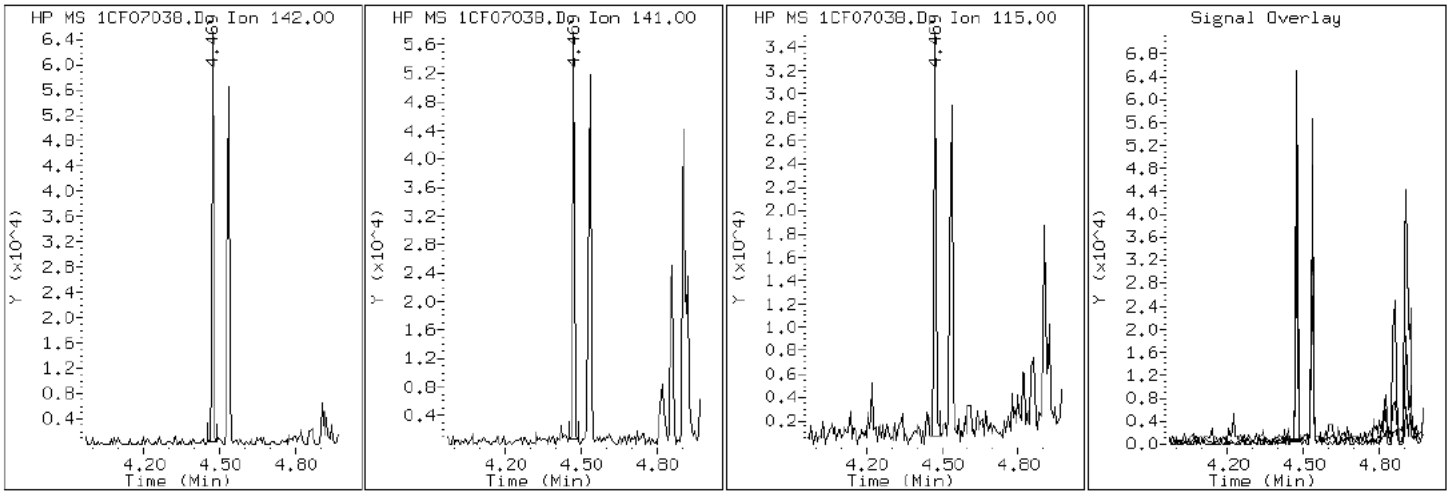
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

3 2-Methylnaphthalene



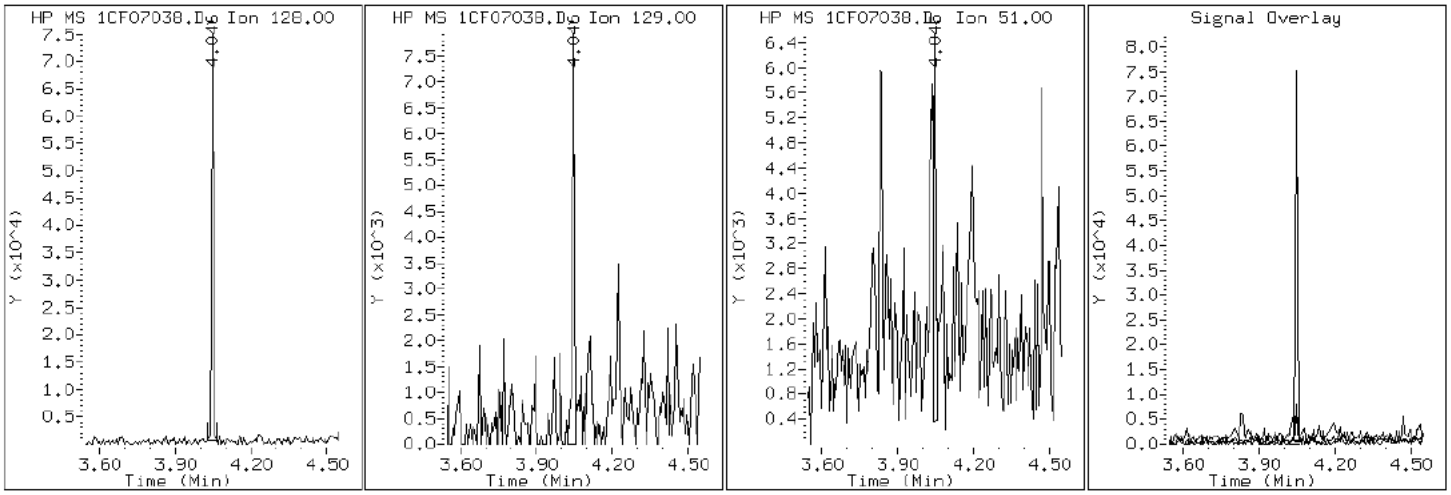
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

2 Naphthalene



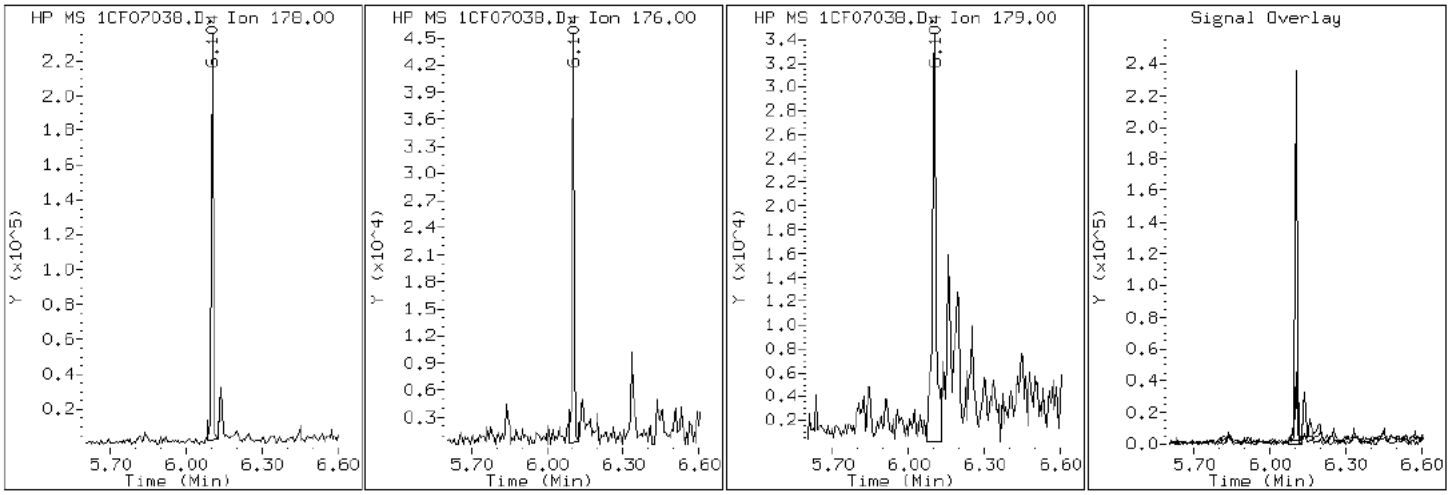
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

11 Phenanthrene



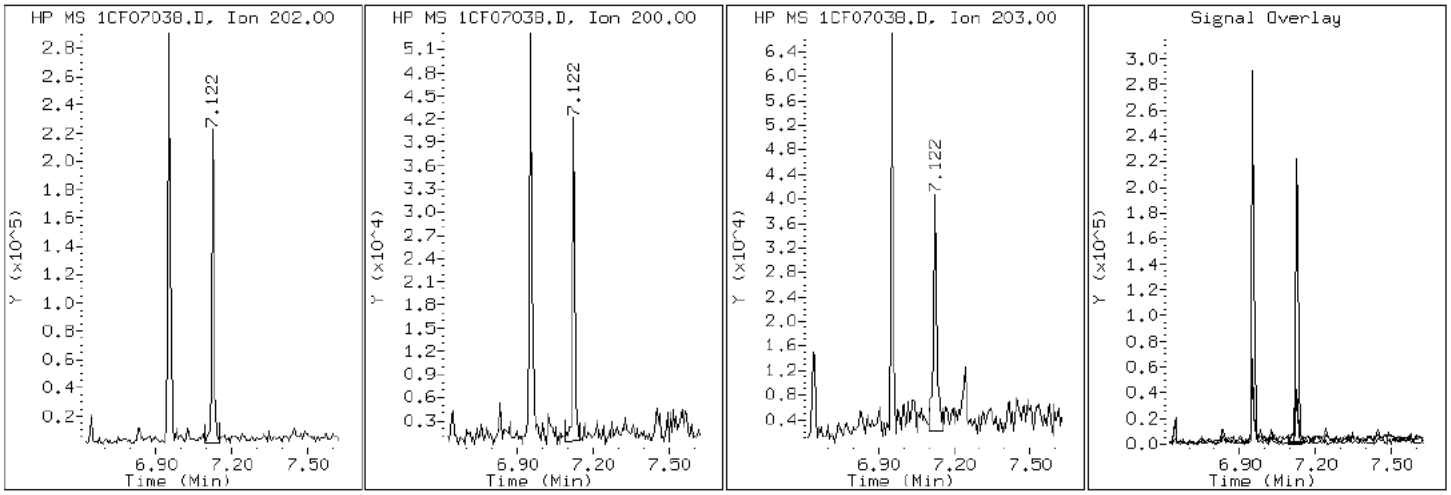
Data File: 1CF07038.D

Date: 07-JUN-2013 22:19

Client ID: CV0185A-CSD Instrument: BSMC5973.i

Sample Info: 680-90855-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07038.D
Inj. Date and Time: 07-JUN-2013 22:19
Instrument ID: BSMC5973.i
Client ID: CV0185A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/09/2013

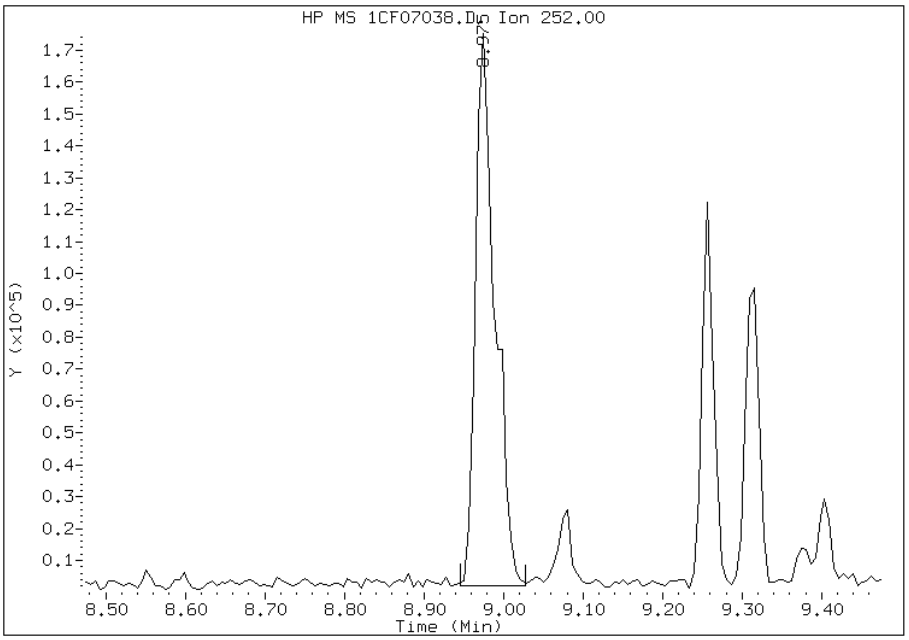
Processing Integration Results

RT: 8.97

Response: 294766

Amount: 4

Conc: 287



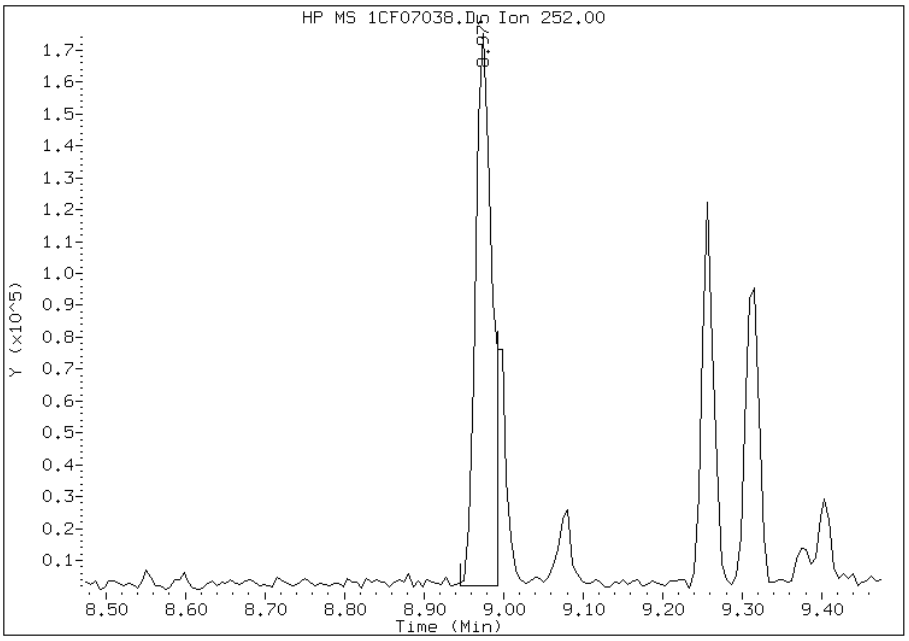
Manual Integration Results

RT: 8.97

Response: 249033

Amount: 3

Conc: 243



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF07038.D
Inj. Date and Time: 07-JUN-2013 22:19
Instrument ID: BSMC5973.i
Client ID: CV0185A-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/09/2013

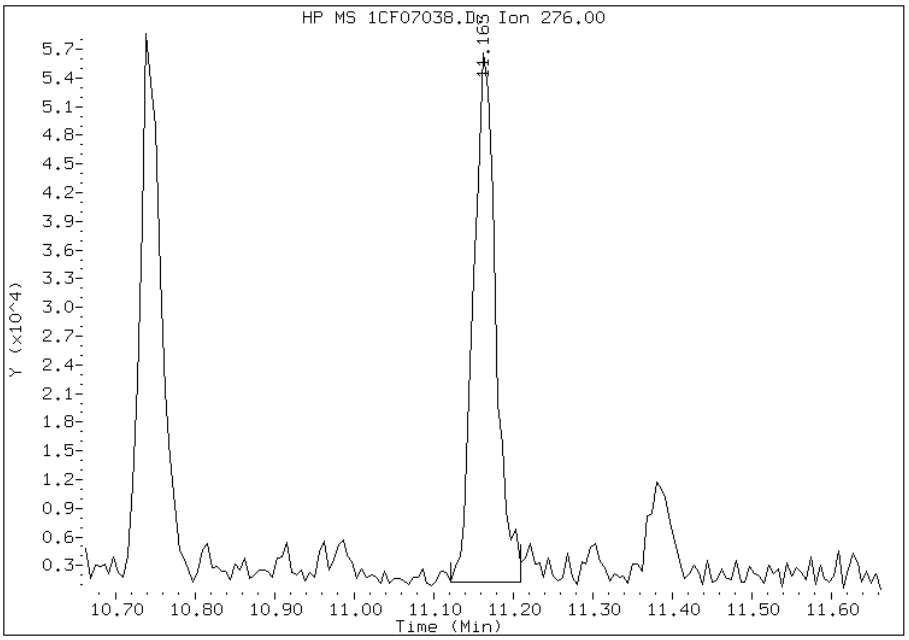
Processing Integration Results

RT: 11.16

Response: 107115

Amount: 1

Conc: 110



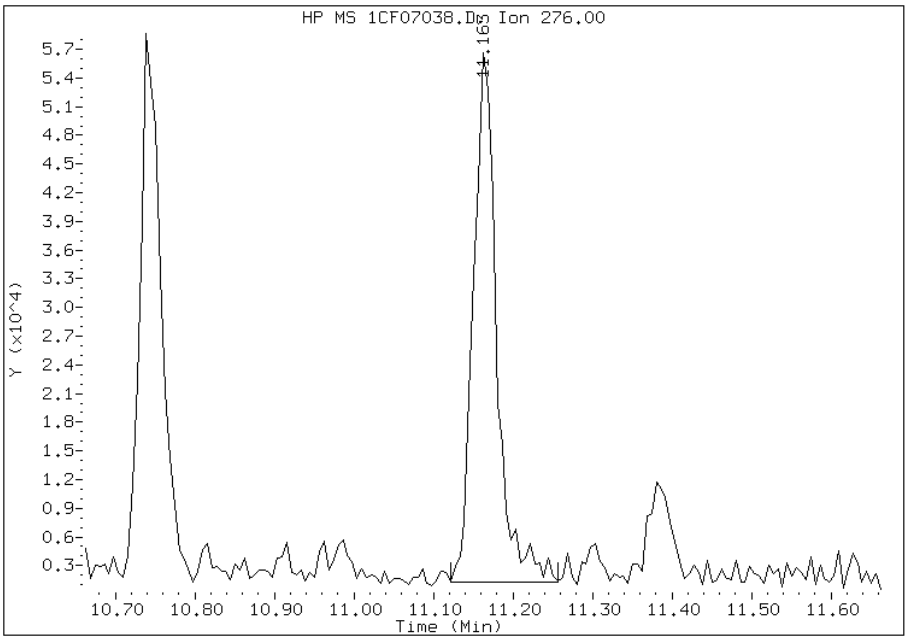
Manual Integration Results

RT: 11.16

Response: 112486

Amount: 2

Conc: 116



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07038.D
Inj. Date and Time: 07-JUN-2013 22:19
Instrument ID: BSMC5973.i
Client ID: CV0185A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/09/2013

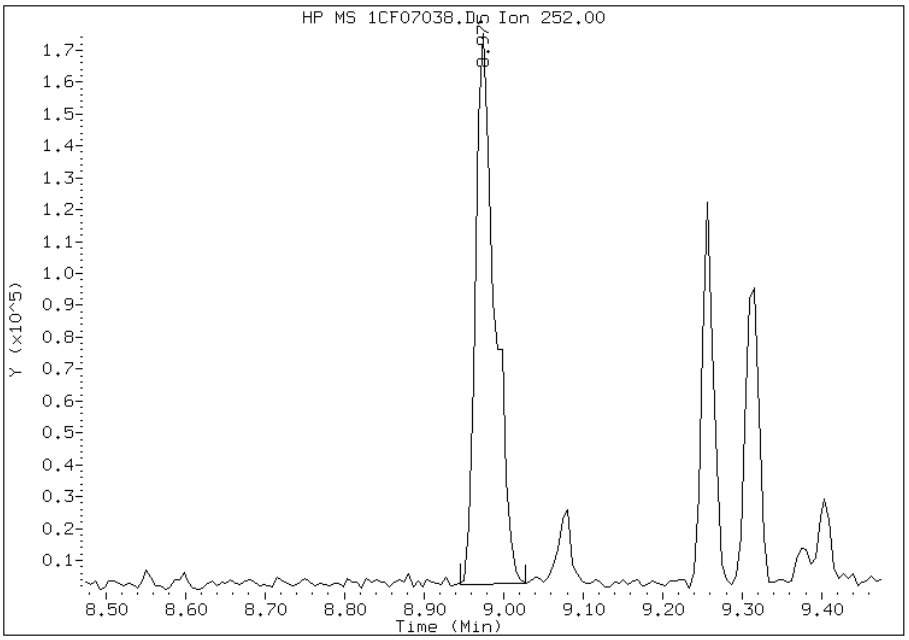
Processing Integration Results

RT: 8.97

Response: 291775

Amount: 3

Conc: 255



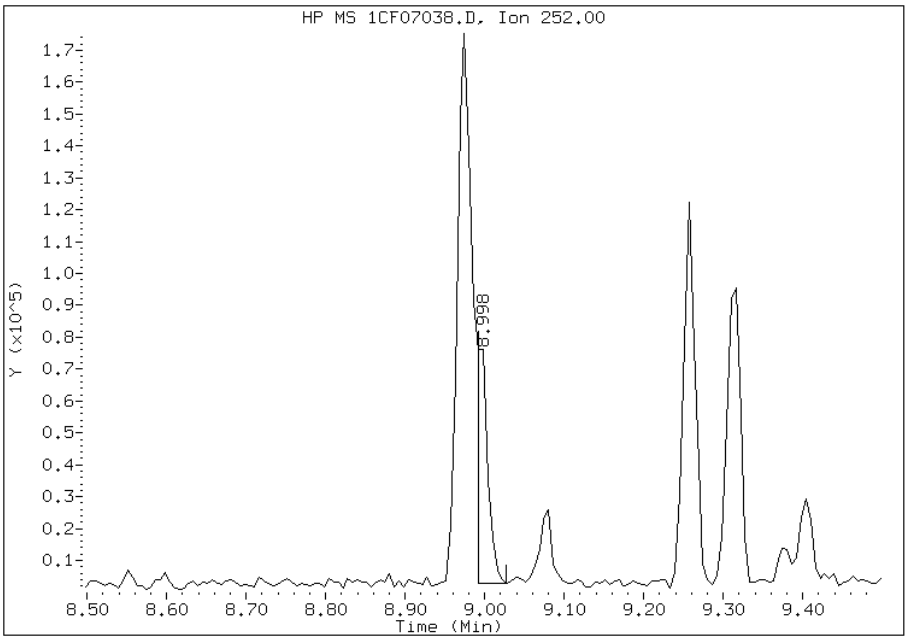
Manual Integration Results

RT: 9.00

Response: 70024

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07038.D
Inj. Date and Time: 07-JUN-2013 22:19
Instrument ID: BSMC5973.i
Client ID: CV0185A-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/09/2013

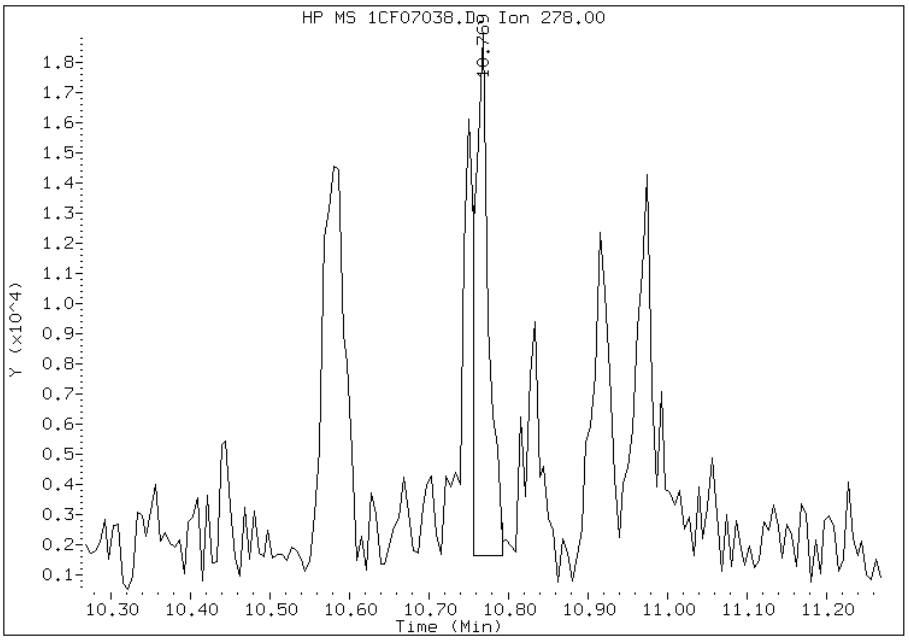
Processing Integration Results

RT: 10.77

Response: 20581

Amount: 0

Conc: 23



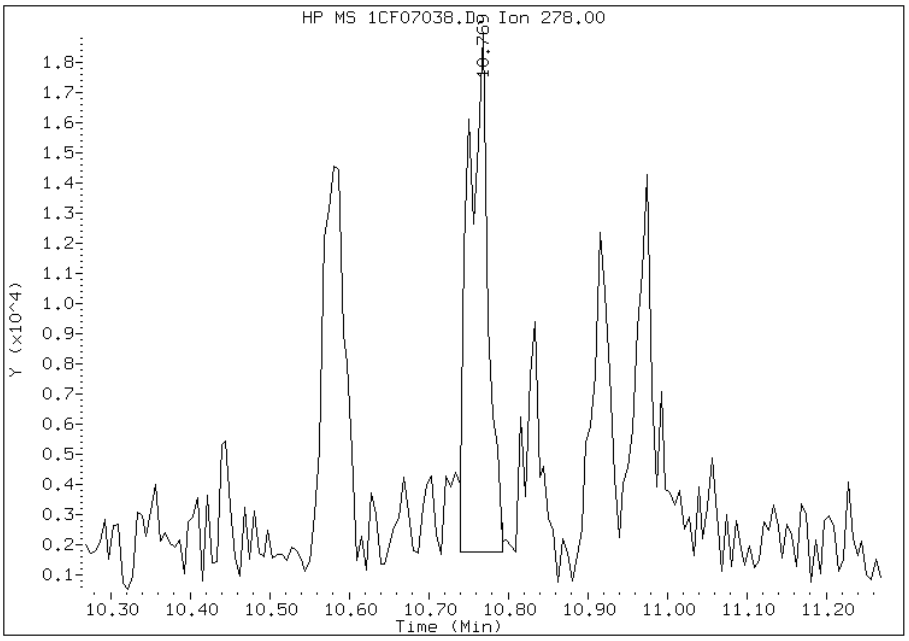
Manual Integration Results

RT: 10.77

Response: 29773

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07038.D
Inj. Date and Time: 07-JUN-2013 22:19
Instrument ID: BSMC5973.i
Client ID: CV0185A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

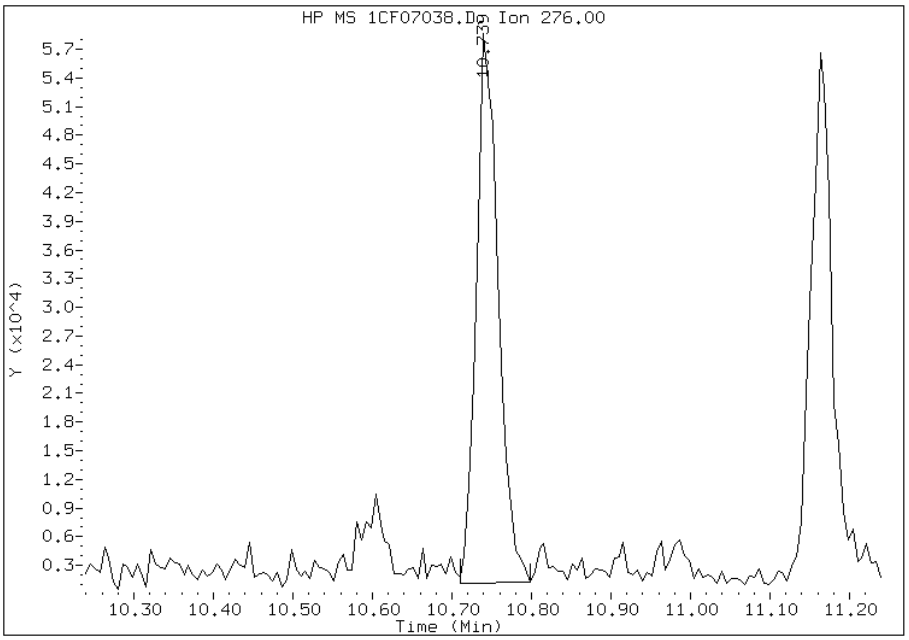
Processing Integration Results

RT: 10.74

Response: 109511

Amount: 1

Conc: 110



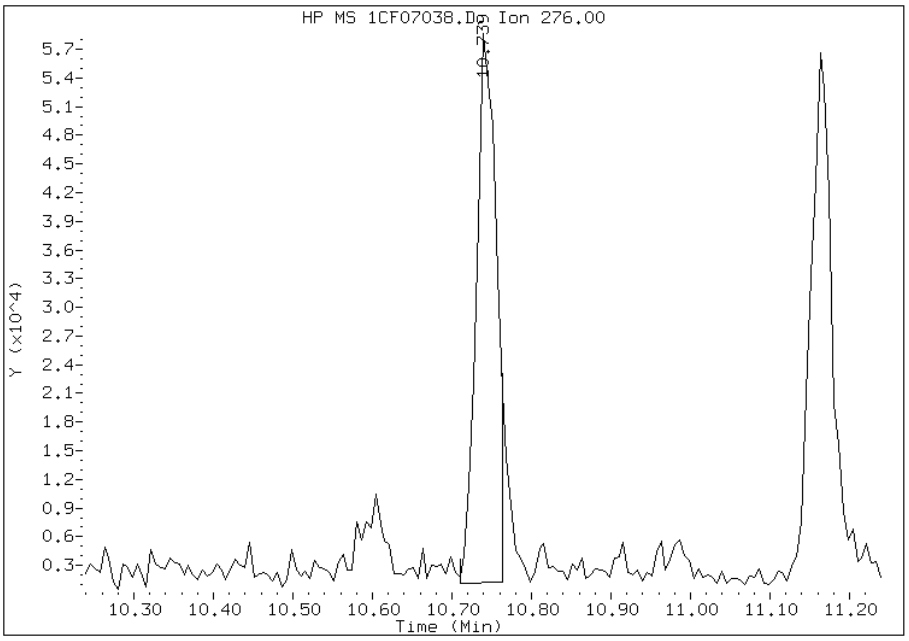
Manual Integration Results

RT: 10.74

Response: 99565

Amount: 1

Conc: 101



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1017A-CS | Lab Sample ID: 680-90855-3

Matrix: Solid | Lab File ID: 1CF07012.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:40

Extract. Method: 3546 | Date Extracted: 06/05/2013 15:09

Sample wt/vol: 15.07(g) | Date Analyzed: 06/07/2013 14:23

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

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

% Moisture: 10.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	U	440	89
208-96-8	Acenaphthylene	75	J	180	22
120-12-7	Anthracene	160		37	19
56-55-3	Benzo[a]anthracene	650	F	35	17
50-32-8	Benzo[a]pyrene	540	F	46	23
205-99-2	Benzo[b]fluoranthene	980	F	54	27
191-24-2	Benzo[g,h,i]perylene	450		89	19
207-08-9	Benzo[k]fluoranthene	350		35	16
218-01-9	Chrysene	680	F	40	20
53-70-3	Dibenz(a,h)anthracene	150		89	18
206-44-0	Fluoranthene	920	F	89	18
86-73-7	Fluorene	74	J	89	18
193-39-5	Indeno[1,2,3-cd]pyrene	320		89	31
90-12-0	1-Methylnaphthalene	220		180	19
91-57-6	2-Methylnaphthalene	240		180	31
91-20-3	Naphthalene	180		180	19
85-01-8	Phenanthrene	740	B F	35	17
129-00-0	Pyrene	870	F	89	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07012.D
Lab Smp Id: 680-90855-A-3-A Client Smp ID: CV1017A-CS
Inj Date : 07-JUN-2013 14:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90855-a-3-a
Misc Info : 680-90855-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 9
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	15.070	Weight Extracted
M	10.138	% 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/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	4.033	4.033	(1.000)	1835465	40.0000	
* 6	Acenaphthene-d10	164	5.115	5.116	(1.000)	1354471	40.0000	
* 10	Phenanthrene-d10	188	6.086	6.086	(1.000)	2617655	40.0000	
$ 14	o-Terphenyl	230	6.333	6.333	(1.041)	96897	2.37630	701.8969
* 18	Chrysene-d12	240	8.045	8.051	(1.000)	3315783	40.0000	
* 23	Perylene-d12	264	9.368	9.374	(1.000)	3103043	40.0000	
2	Naphthalene	128	4.045	4.045	(1.003)	32405	0.62562	184.7917
3	2-Methylnaphthalene	142	4.468	4.468	(1.108)	23375	0.81361	240.3187
4	1-Methylnaphthalene	142	4.533	4.533	(1.124)	21444	0.75863	224.0807
5	Acenaphthylene	152	5.033	5.033	(0.984)	13203	0.25427	75.1055
7	Acenaphthene	154	5.133	5.139	(1.003)	6824	0.20957	61.9017(Q)
9	Fluorene	166	5.462	5.463	(1.068)	10473	0.25207	74.4557
11	Phenanthrene	178	6.098	6.104	(1.002)	194756	2.51829	743.8370
12	Anthracene	178	6.133	6.139	(1.008)	39946	0.55754	164.6812

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.239	6.239	(1.025)	27074	0.51943	153.4248
15 Fluoranthene	202	6.951	6.951	(1.142)	246763	3.12166	922.0576
16 Pyrene	202	7.121	7.121	(0.885)	264542	2.95457	872.7031
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	201141	2.19992	649.7988
19 Chrysene	228	8.062	8.068	(1.002)	211872	2.30159	679.8298
20 Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	254178	3.33391	984.7495(M)
21 Benzo(k)fluoranthene	252	8.986	8.998	(0.959)	100908	1.18503	350.0271(QM)
22 Benzo(a)pyrene	252	9.303	9.309	(0.993)	134769	1.82924	540.3094
24 Indeno(1,2,3-cd)pyrene	276	10.733	10.745	(1.146)	75650	1.06996	316.0389(M)
25 Dibenzo(a,h)anthracene	278	10.750	10.762	(1.148)	34317	0.51814	153.0441
26 Benzo(g,h,i)perylene	276	11.156	11.162	(1.191)	109092	1.51331	446.9909

QC Flag Legend

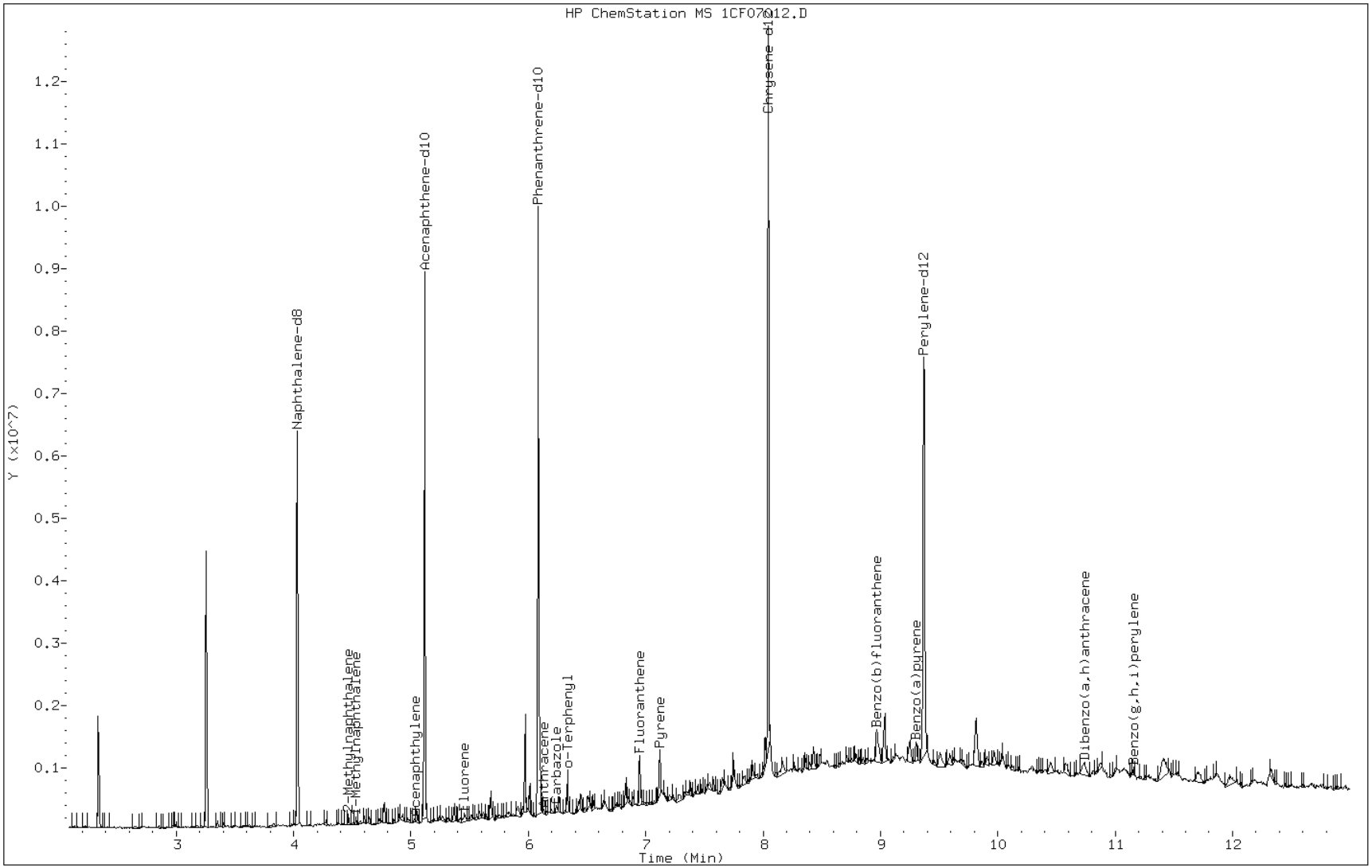
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC



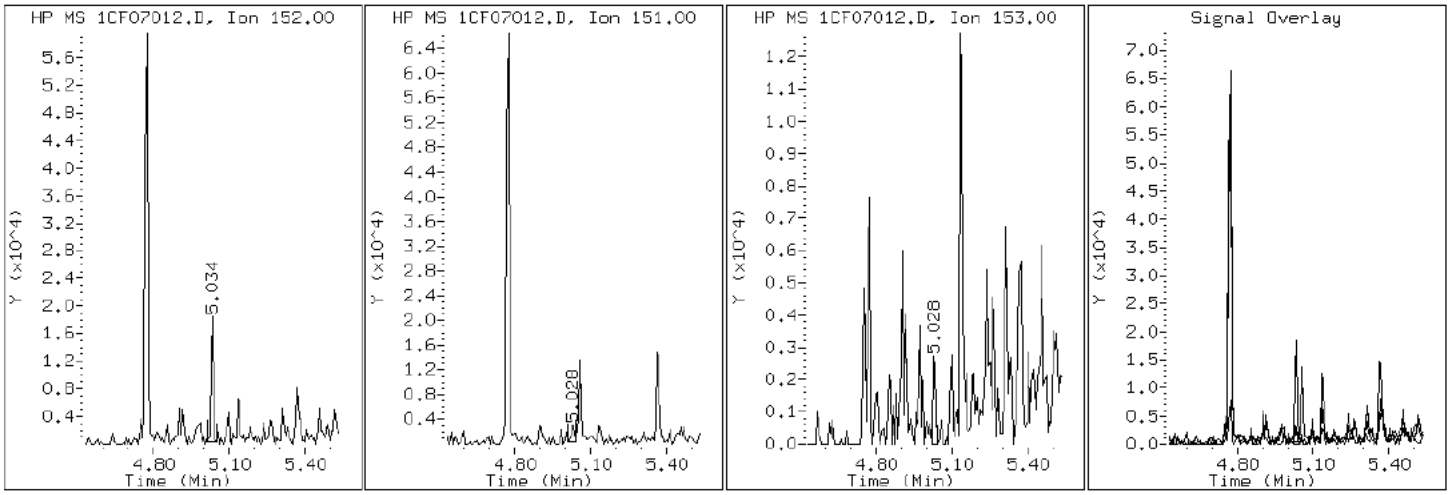
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

5 Acenaphthylene



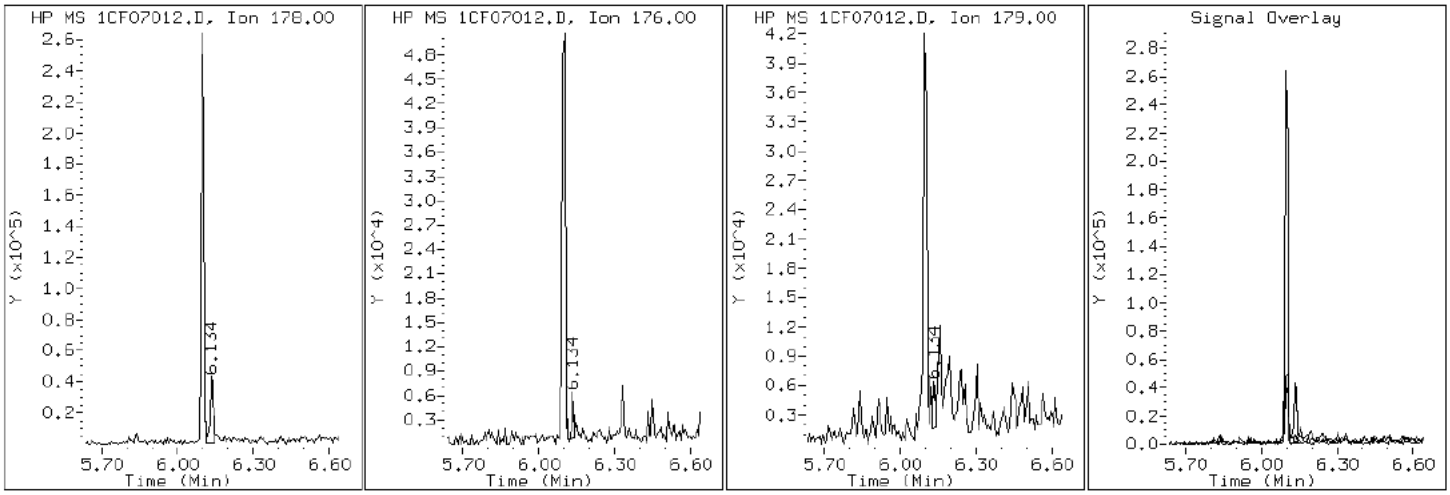
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

12 Anthracene



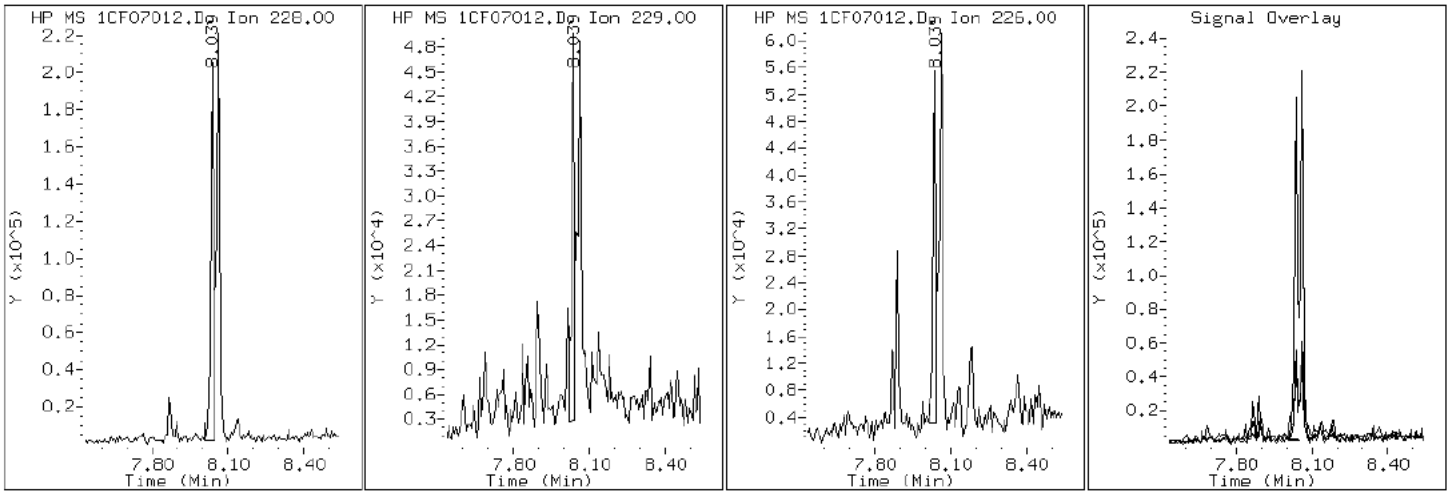
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

17 Benzo(a)anthracene



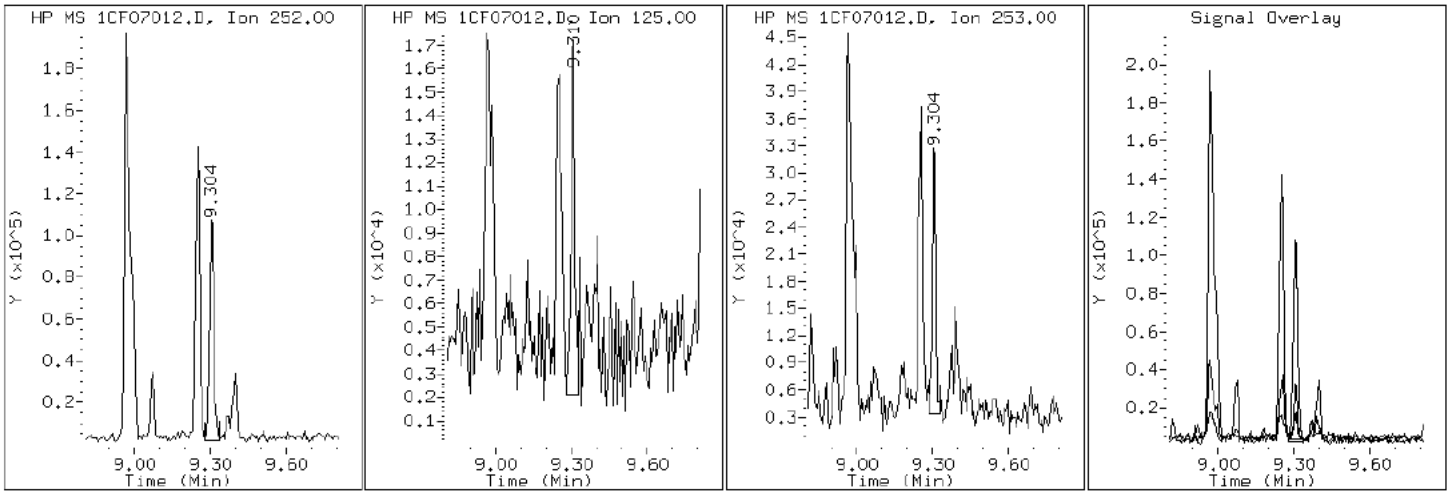
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

22 Benzo(a)pyrene



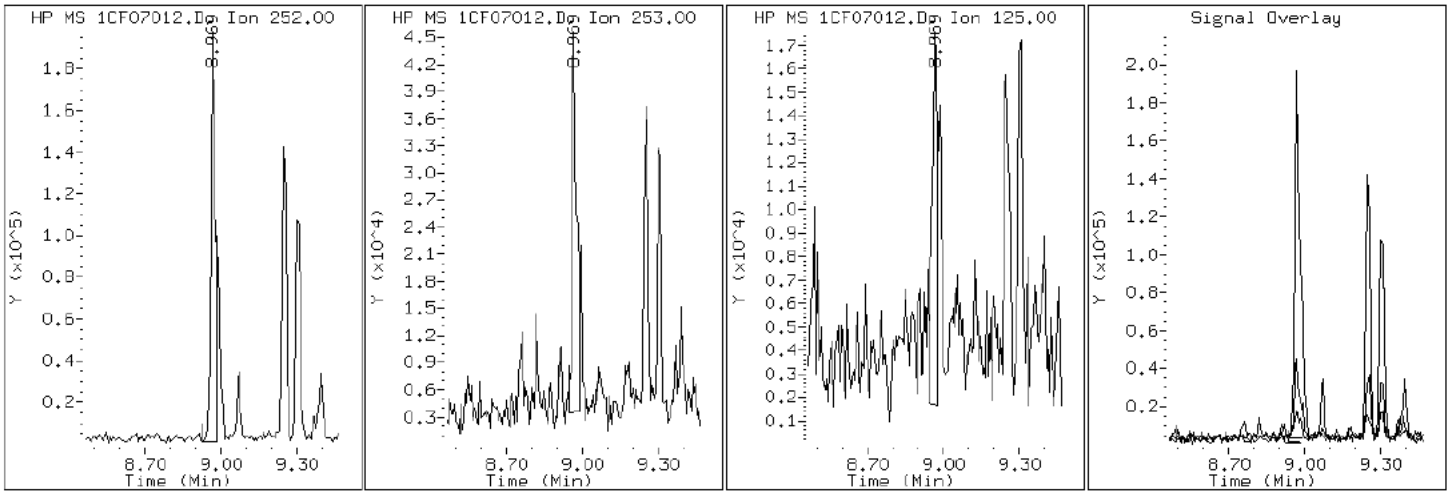
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



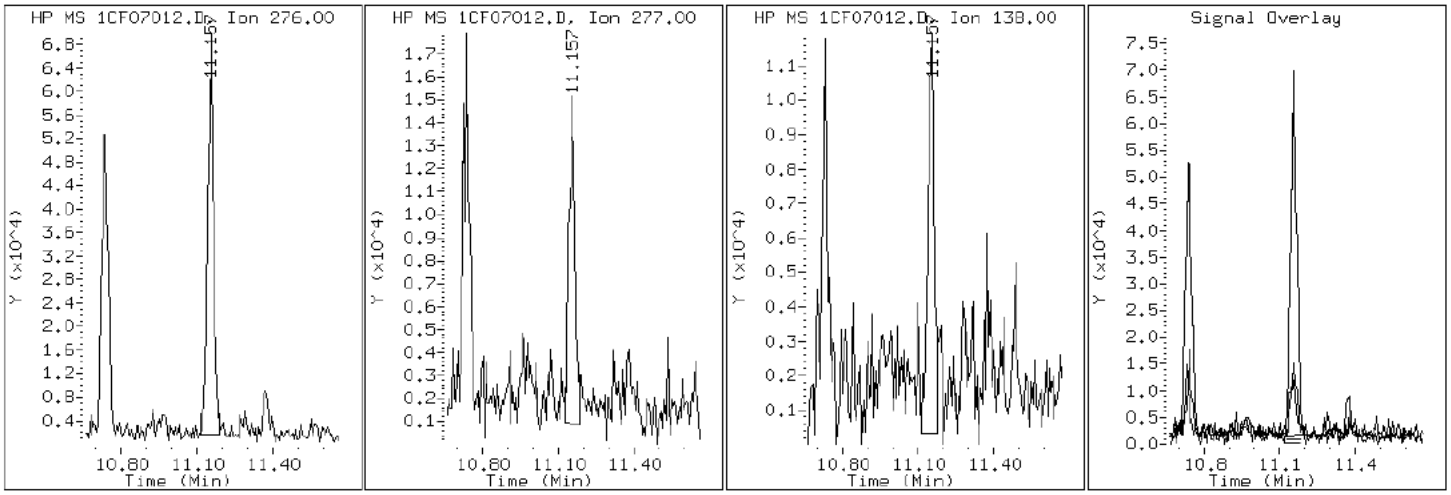
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



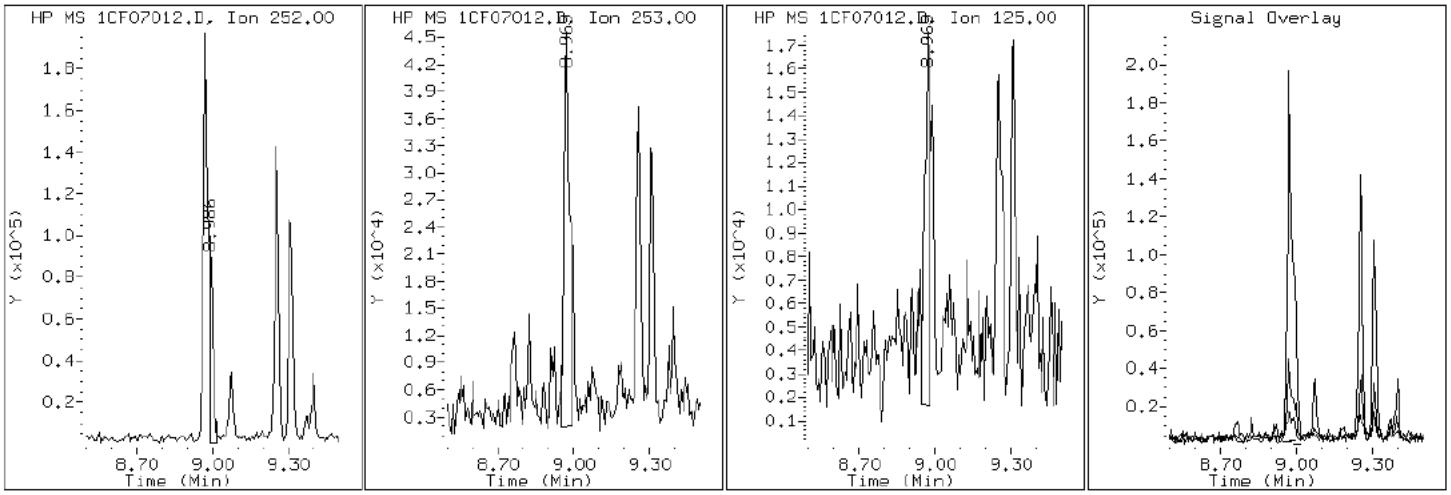
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



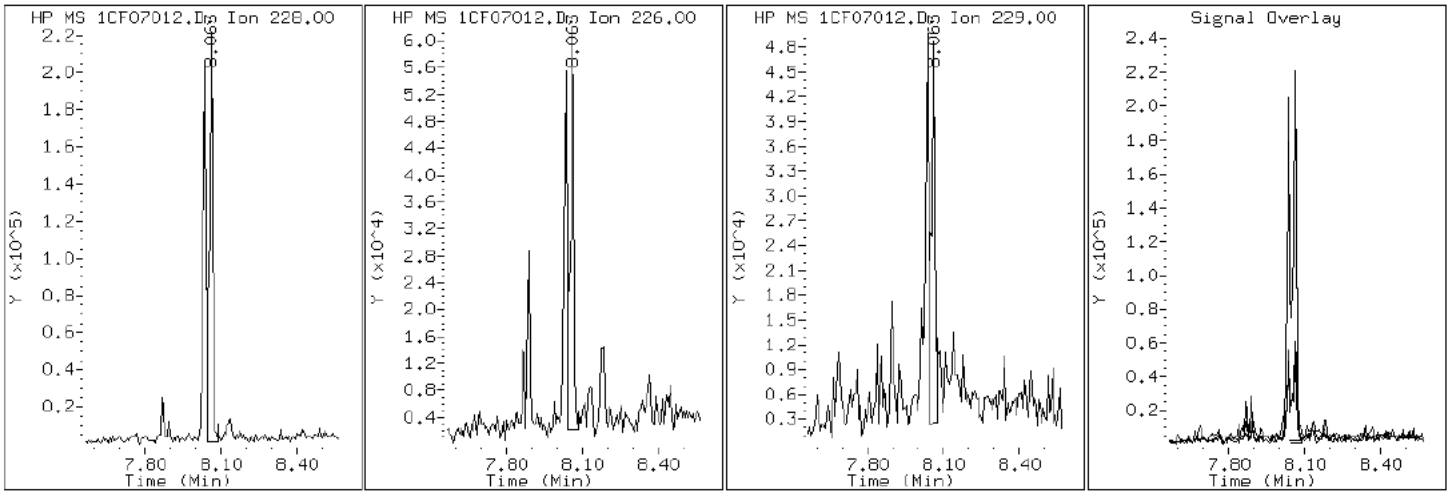
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

19 Chrysene



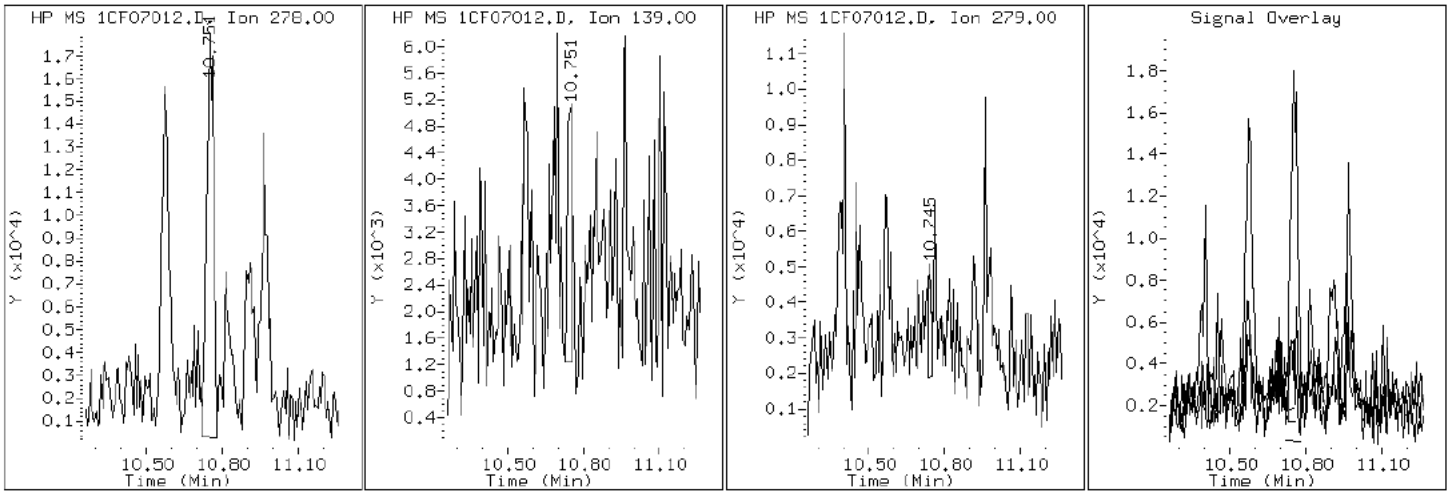
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



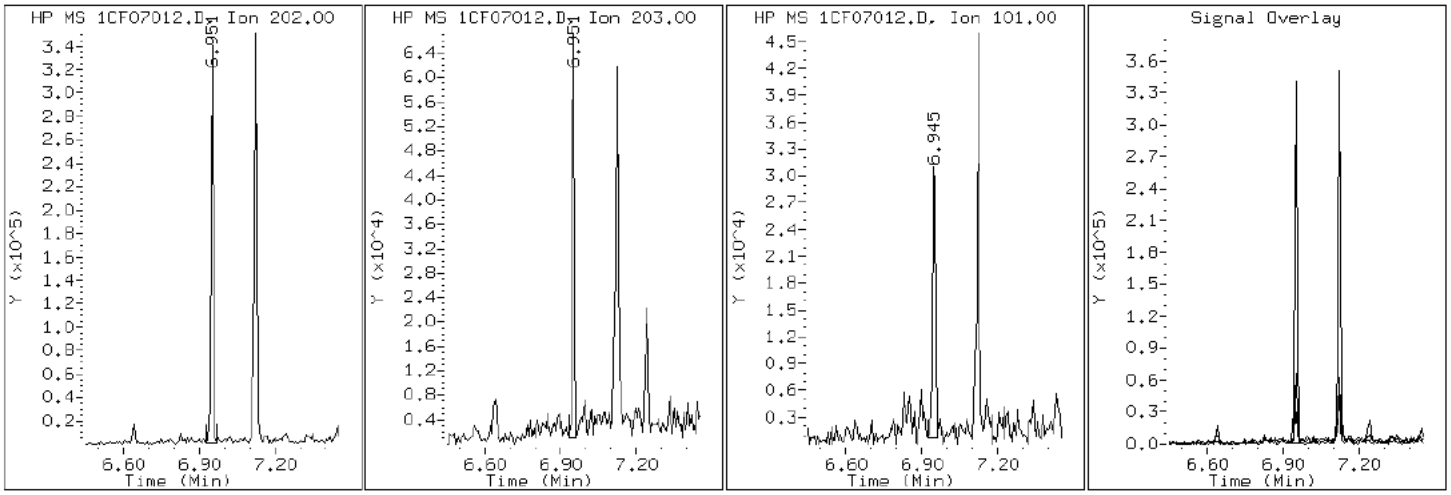
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

15 Fluoranthene



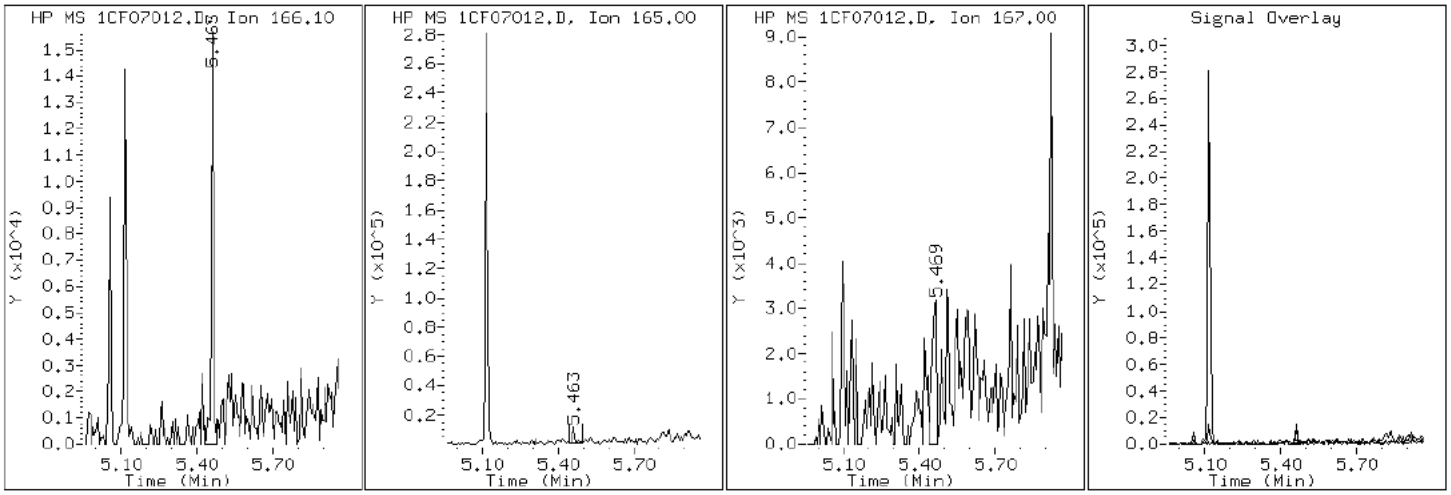
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

9 Fluorene



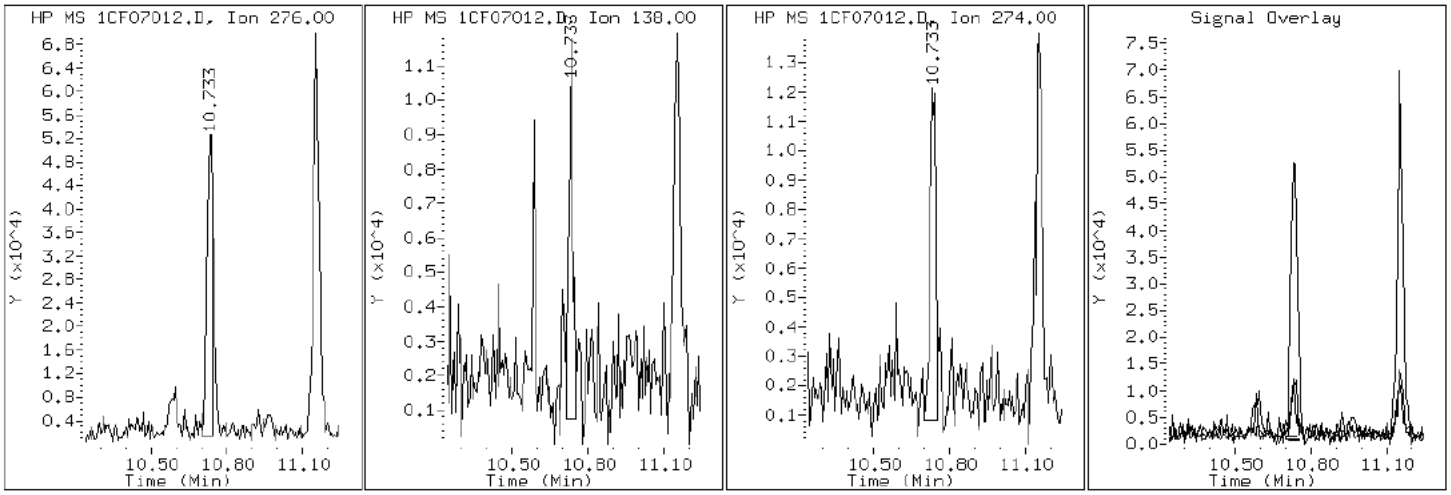
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

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



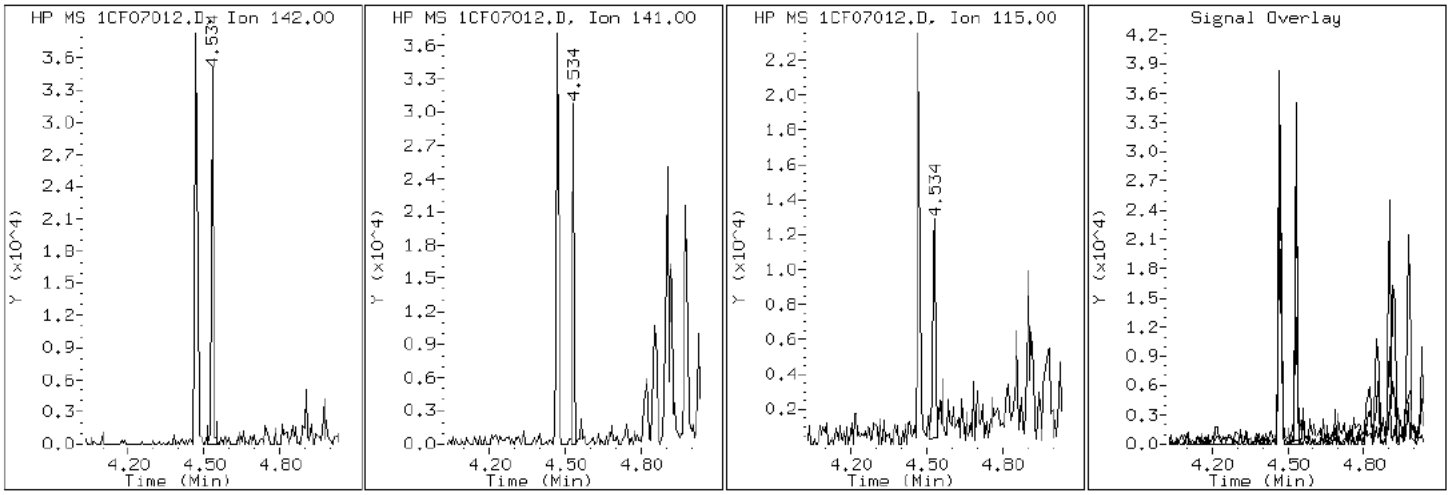
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

4 1-Methylnaphthalene



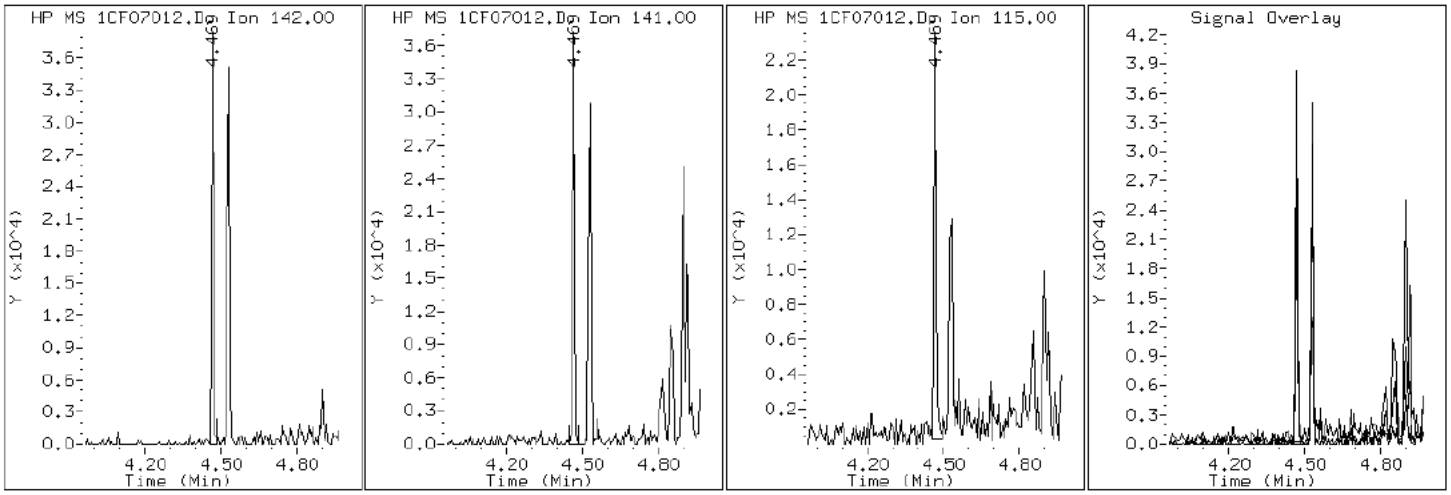
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

3 2-Methylnaphthalene



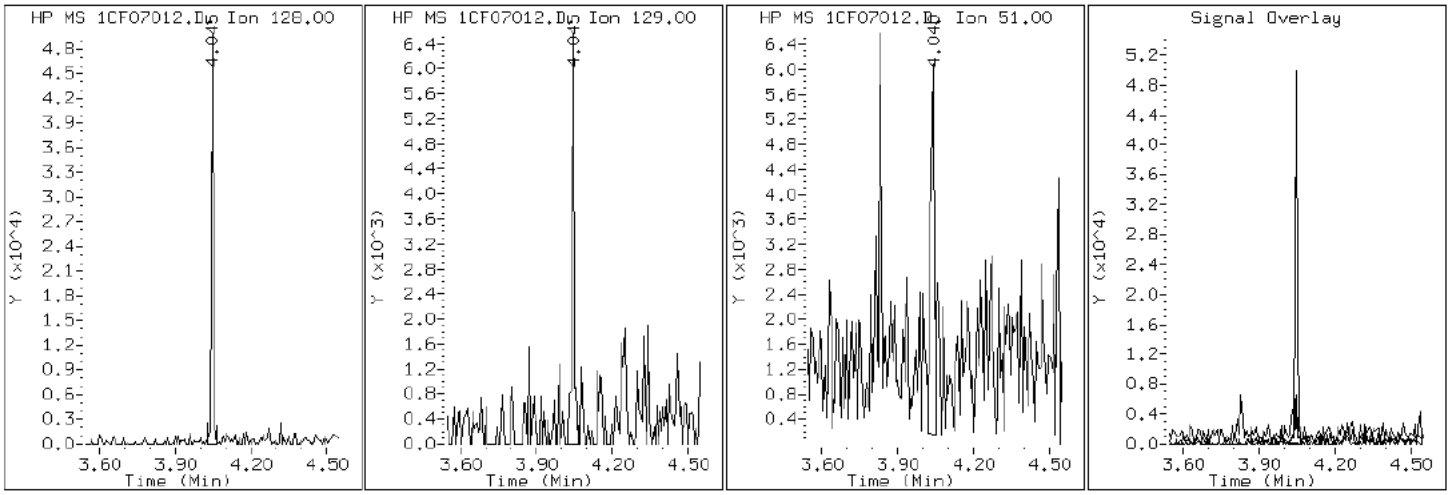
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

2 Naphthalene



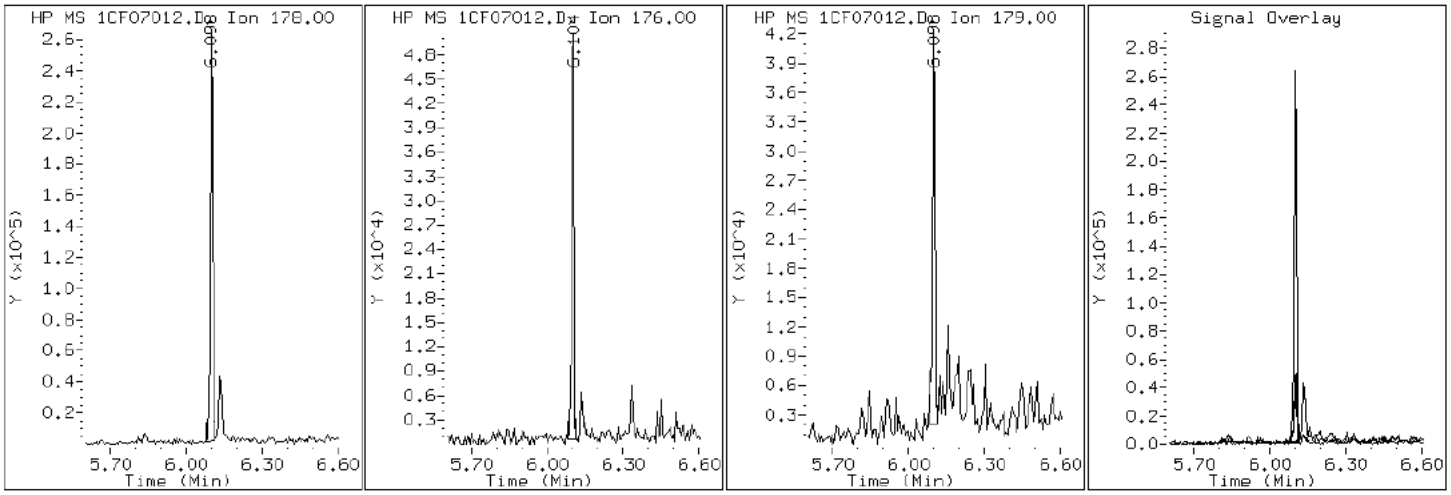
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

11 Phenanthrene



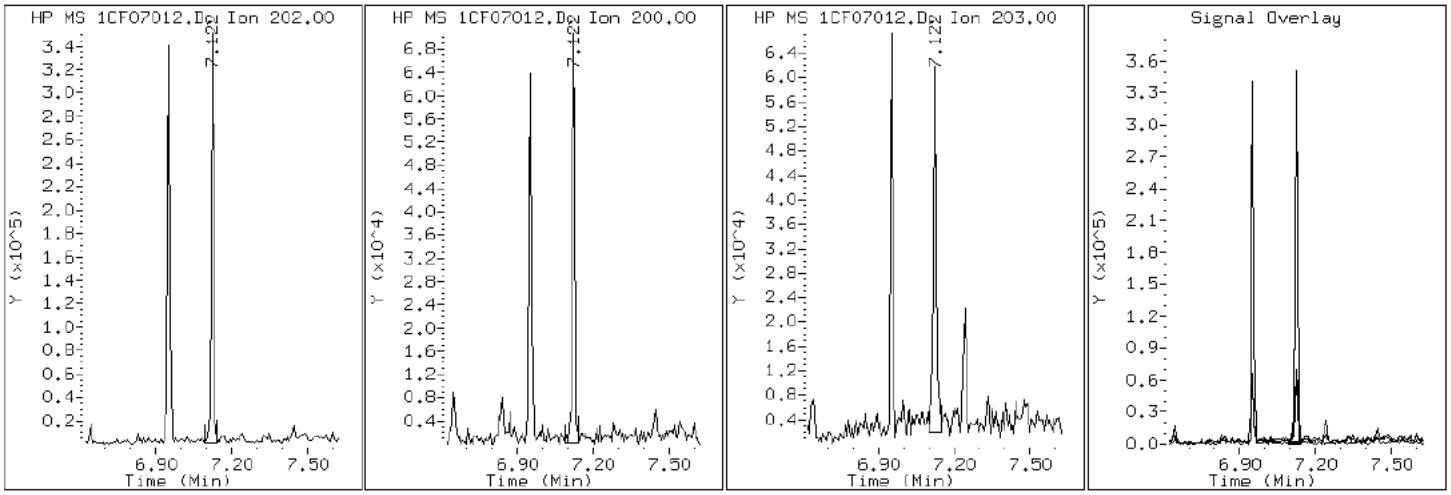
Data File: 1CF07012.D

Date: 07-JUN-2013 14:23

Client ID: CV1017A-CS Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07012.D
Inj. Date and Time: 07-JUN-2013 14:23
Instrument ID: BSMC5973.i
Client ID: CV1017A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/09/2013

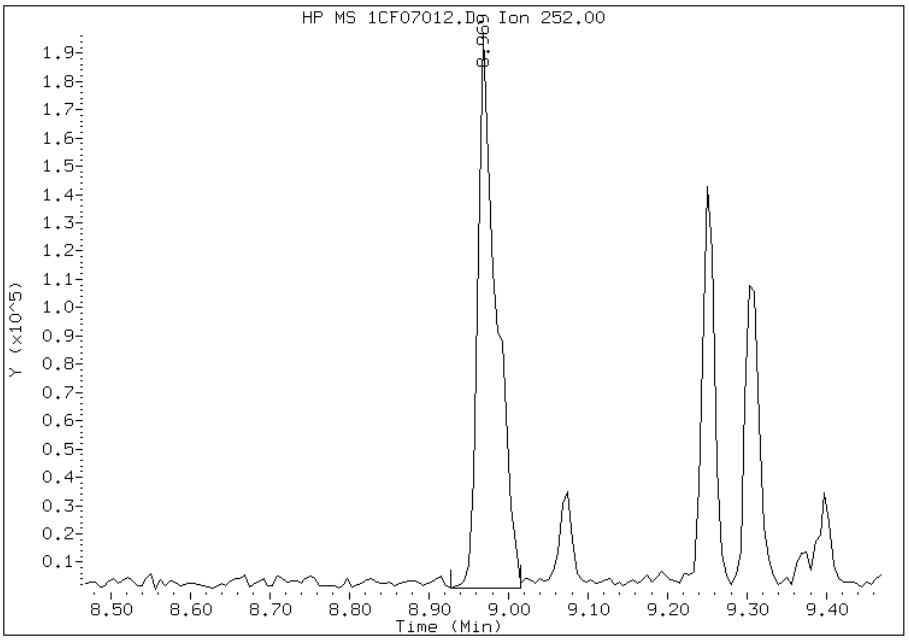
Processing Integration Results

RT: 8.97

Response: 322529

Amount: 4

Conc: 1250



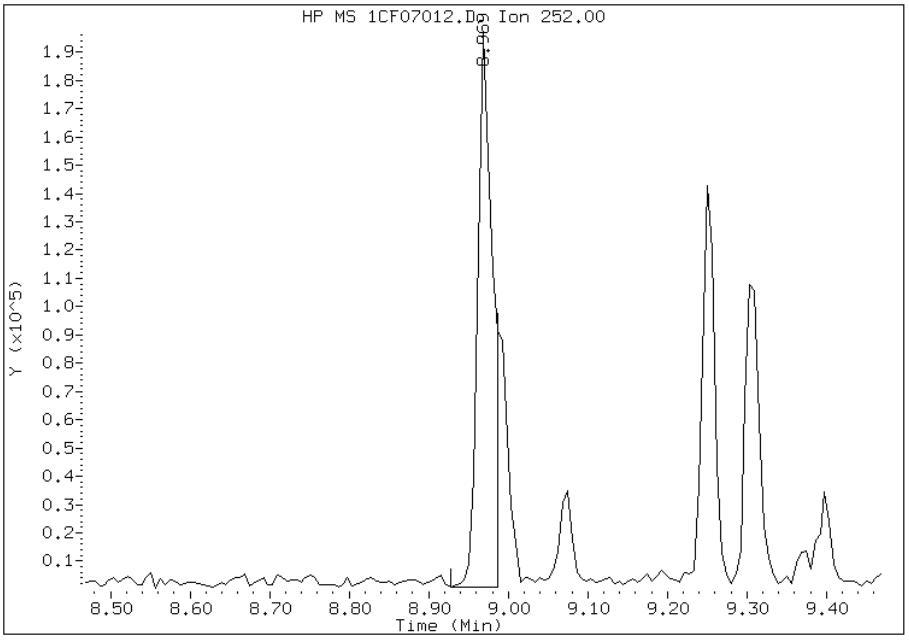
Manual Integration Results

RT: 8.97

Response: 254178

Amount: 3

Conc: 985



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 12:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF07012.D
Inj. Date and Time: 07-JUN-2013 14:23
Instrument ID: BSMC5973.i
Client ID: CV1017A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/09/2013

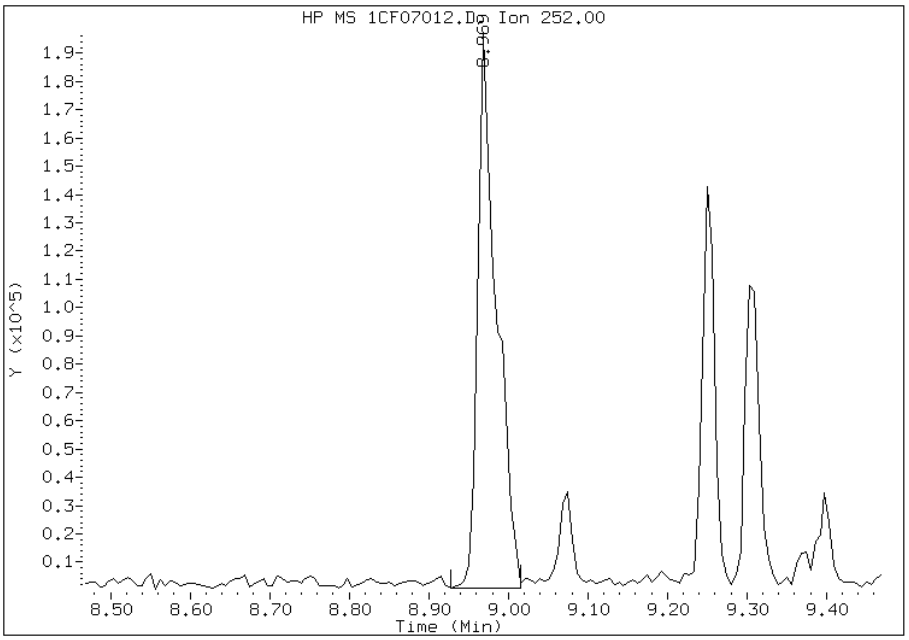
Processing Integration Results

RT: 8.97

Response: 322529

Amount: 4

Conc: 1119



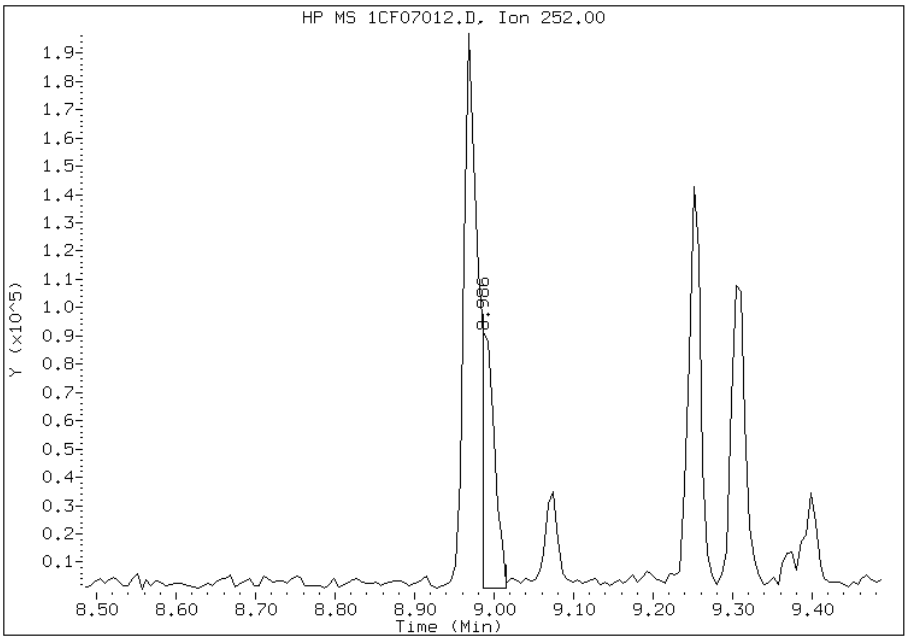
Manual Integration Results

RT: 8.99

Response: 100908

Amount: 1

Conc: 350



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 12:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07012.D
Inj. Date and Time: 07-JUN-2013 14:23
Instrument ID: BSMC5973.i
Client ID: CV1017A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

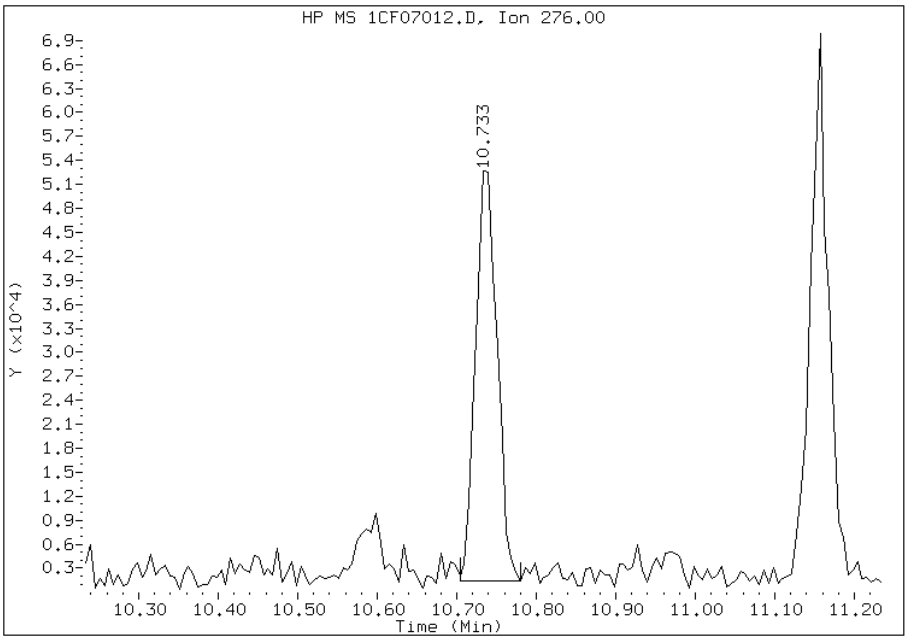
Processing Integration Results

RT: 10.73

Response: 95798

Amount: 1

Conc: 388



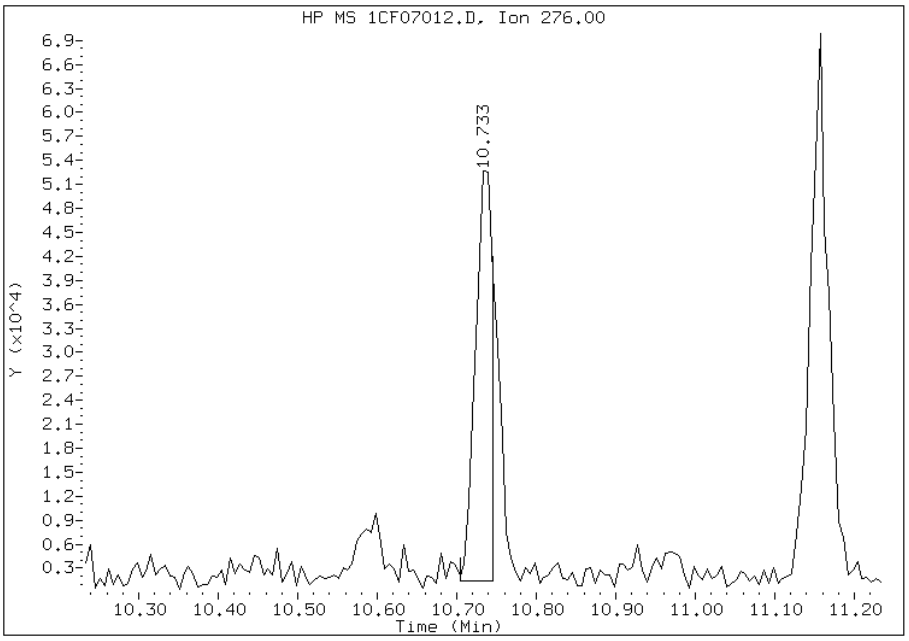
Manual Integration Results

RT: 10.73

Response: 75650

Amount: 1

Conc: 316



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 12:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1025A-CS | Lab Sample ID: 680-90855-4

Matrix: Solid | Lab File ID: 1DF11007.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 10:15

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 14.97(g) | Date Analyzed: 06/11/2013 13:30

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

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

% Moisture: 7.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	44	U	44	5.4
120-12-7	Anthracene	7.1	J	9.1	4.6
56-55-3	Benzo[a]anthracene	19		8.7	4.2
50-32-8	Benzo[a]pyrene	24		11	5.7
205-99-2	Benzo[b]fluoranthene	31		13	6.6
191-24-2	Benzo[g,h,i]perylene	20	J	22	4.8
207-08-9	Benzo[k]fluoranthene	12		8.7	3.9
218-01-9	Chrysene	16		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	9.6	J	22	4.5
206-44-0	Fluoranthene	23		22	4.4
86-73-7	Fluorene	22	U	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	25		22	7.7
90-12-0	1-Methylnaphthalene	8.9	J	44	4.8
91-57-6	2-Methylnaphthalene	14	J	44	7.7
91-20-3	Naphthalene	12	J	44	4.8
85-01-8	Phenanthrene	23		8.7	4.2
129-00-0	Pyrene	20	J	22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11007.D
Lab Smp Id: 680-90855-A-4-A Client Smp ID: CV1025A-CS
Inj Date : 11-JUN-2013 13:30
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-4-a
Misc Info : 680-90855-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 7
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	14.970	Weight Extracted
M	7.893	% 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	6.257	6.260	(1.000)	3637508	40.0000	
*	7 Acenaphthene-d10	164	7.926	7.929	(1.000)	2130074	40.0000	
*	11 Phenanthrene-d10	188	9.189	9.192	(1.000)	3395867	40.0000	
$	15 o-Terphenyl	230	9.495	9.497	(1.033)	319130	6.41463	460
*	19 Chrysene-d12	240	11.551	11.560	(1.000)	3253007	40.0000	
*	24 Perylene-d12	264	13.461	13.469	(1.000)	2714114	40.0000	
	2 Naphthalene	128	6.275	6.284	(1.003)	14978	0.16697	12
	3 2-Methylnaphthalene	142	6.974	6.977	(1.115)	11388	0.19939	14
	4 1-Methylnaphthalene	142	7.068	7.071	(1.130)	7176	0.12204	8.8
	6 Acenaphthylene	152	7.797	7.799	(0.984)	5029	0.05694	4.1
	10 Fluorene	166	8.390	8.399	(1.059)	2057	0.03245	2.4
	12 Phenanthrene	178	9.201	9.210	(1.001)	29754	0.32351	23
	13 Anthracene	178	9.242	9.251	(1.006)	8773	0.09831	7.1
	16 Fluoranthene	202	10.188	10.191	(1.109)	30314	0.32218	23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.376	10.379	(0.898)	26916	0.28261	20
18 Benzo(a)anthracene	228	11.534	11.536	(0.998)	24822	0.25711	19
20 Chrysene	228	11.575	11.583	(1.002)	19320	0.22224	16
21 Benzo(b)fluoranthene	252	12.885	12.899	(0.957)	29320	0.43121	31
22 Benzo(k)fluoranthene	252	12.920	12.940	(0.960)	11410	0.16024	12
23 Benzo(a)pyrene	252	13.349	13.369	(0.992)	15808	0.33331	24
25 Indeno(1,2,3-cd)pyrene	276	15.094	15.120	(1.121)	14163	0.34879	25(QM)
26 Dibenzo(a,h)anthracene	278	15.123	15.156	(1.124)	3930	0.13255	9.6
27 Benzo(g,h,i)perylene	276	15.564	15.602	(1.156)	17256	0.28000	20

QC Flag Legend

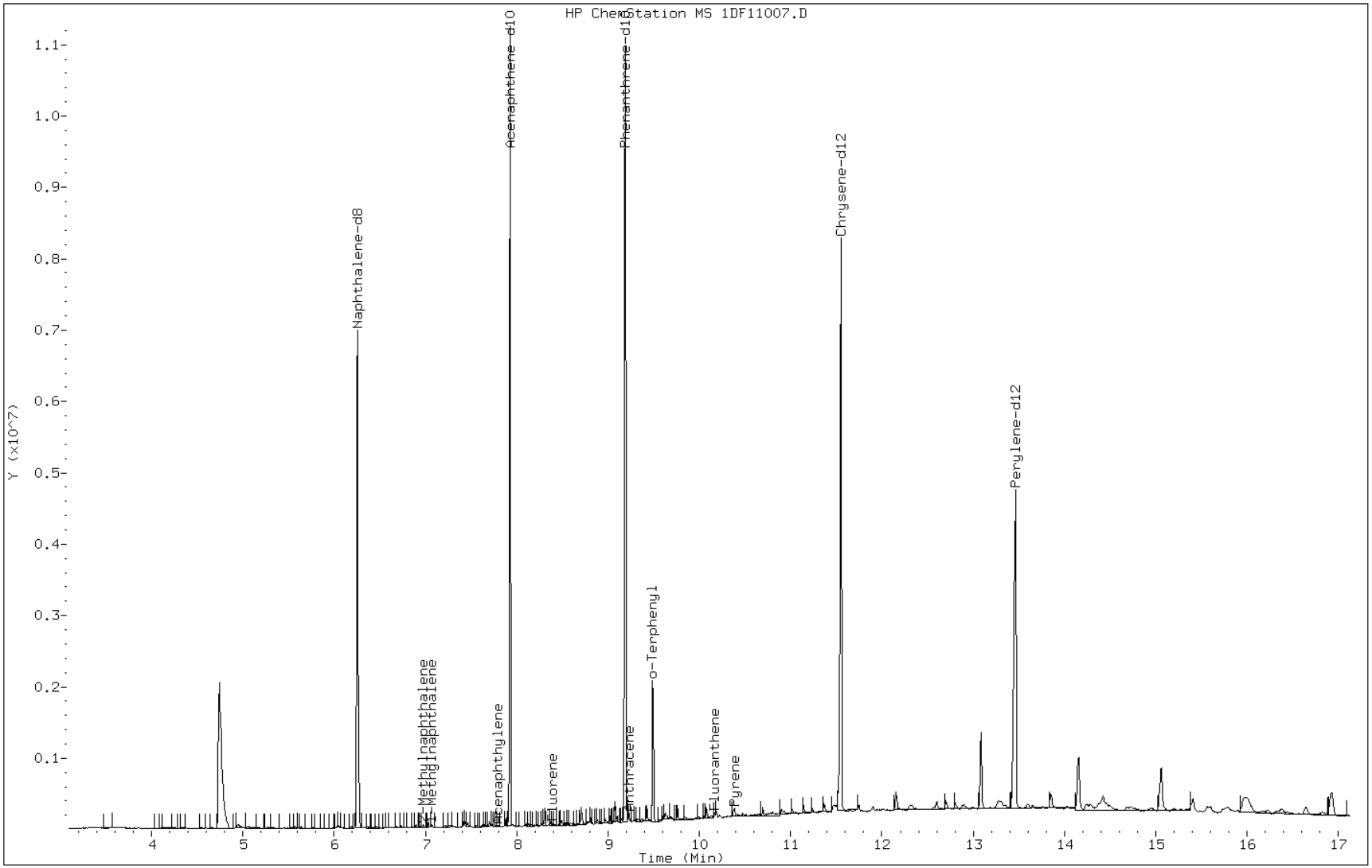
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC



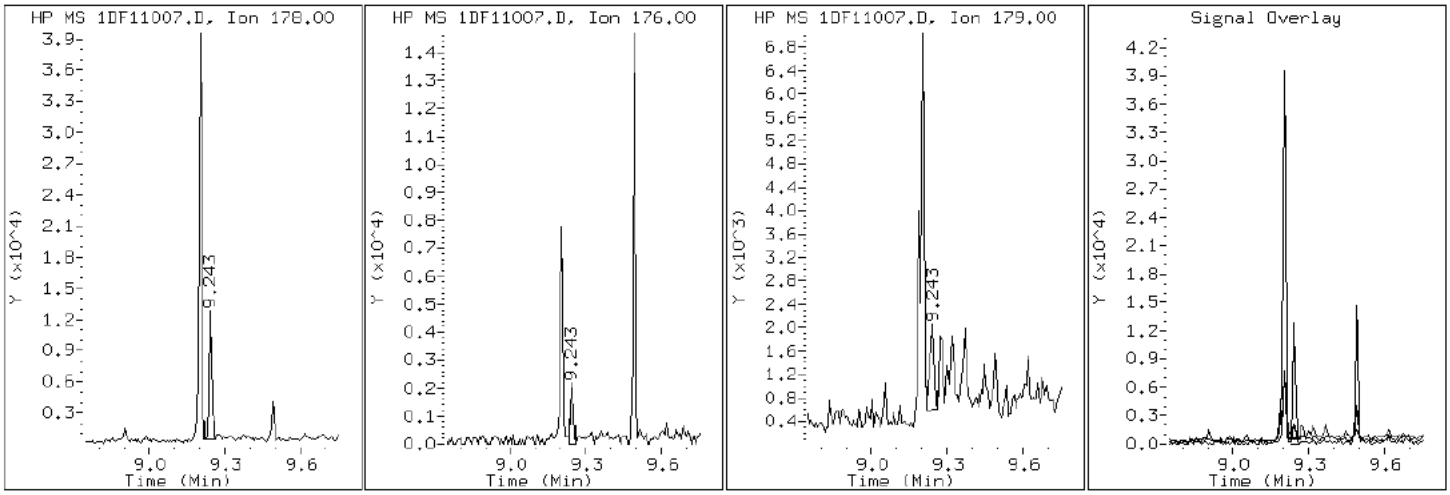
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

13 Anthracene



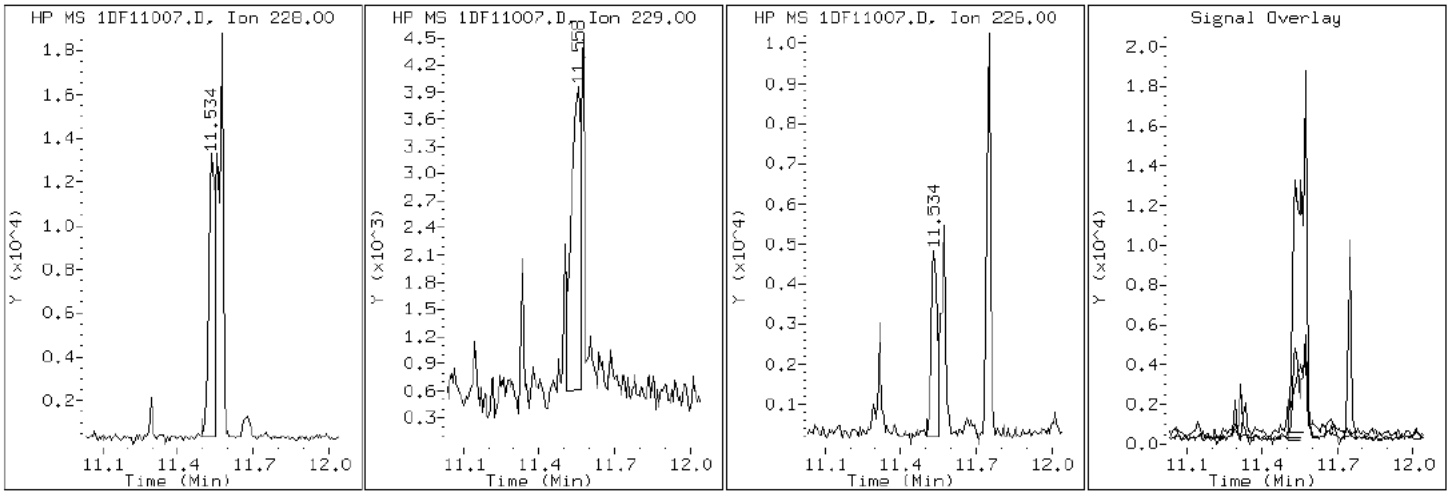
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

18 Benzo(a)anthracene



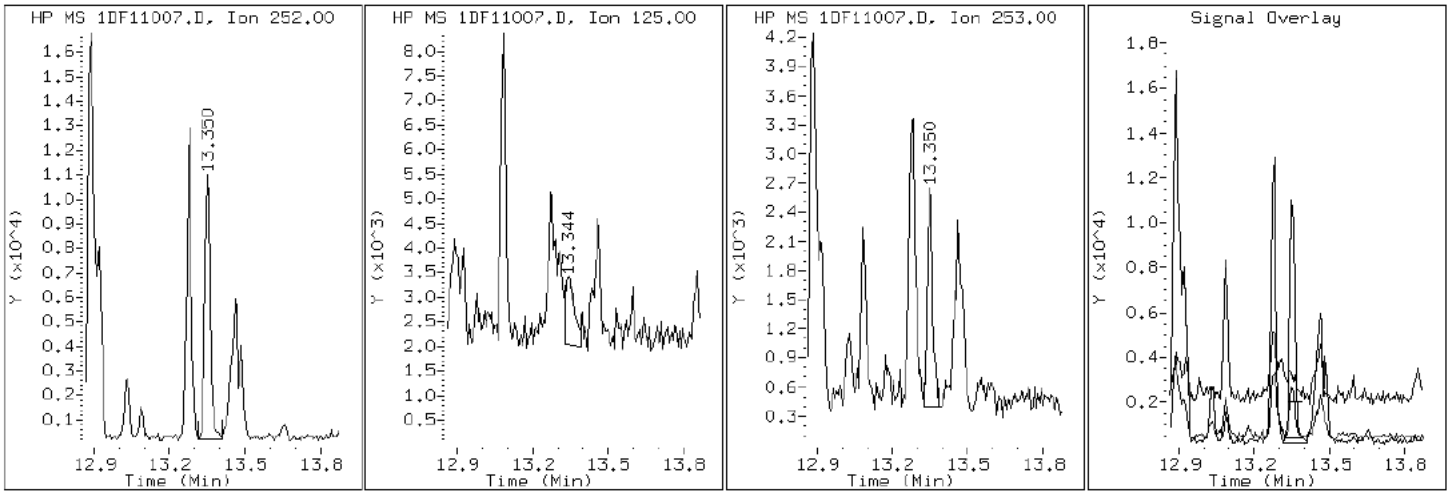
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

23 Benzo(a)pyrene



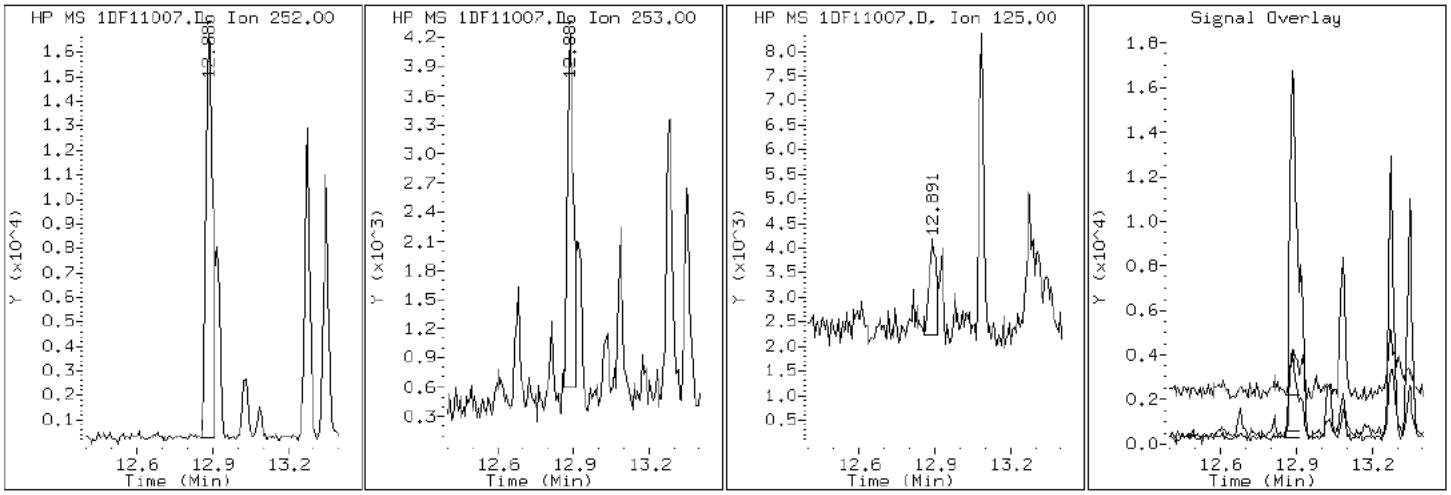
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

21 Benzo(b)fluoranthene



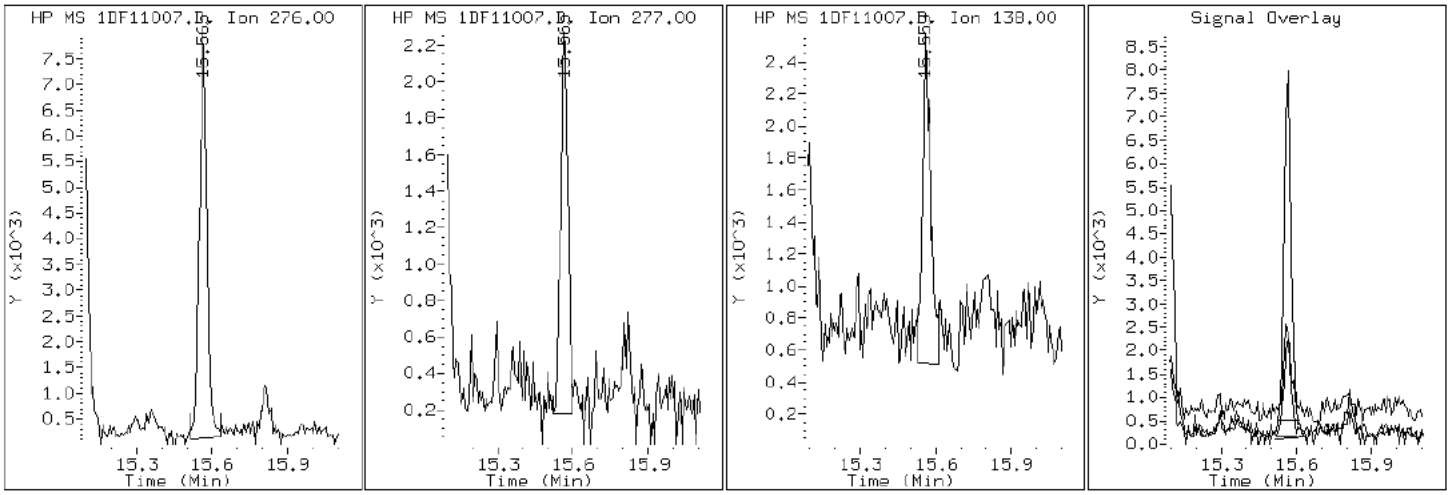
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

27 Benzo(g,h,i)perylene



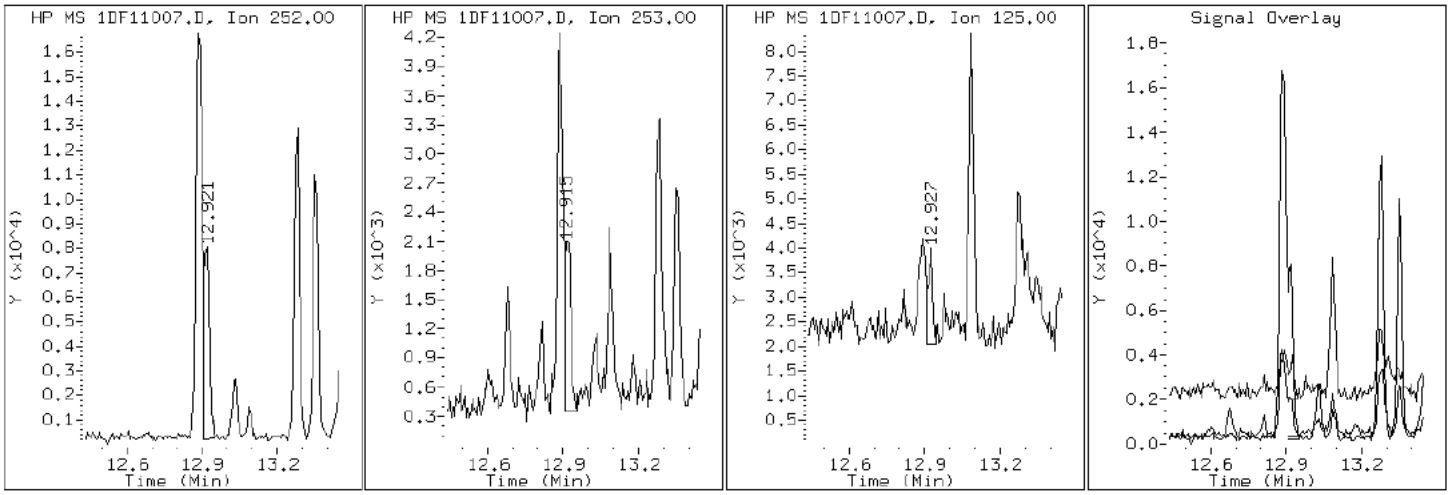
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

22 Benzo(k)fluoranthene



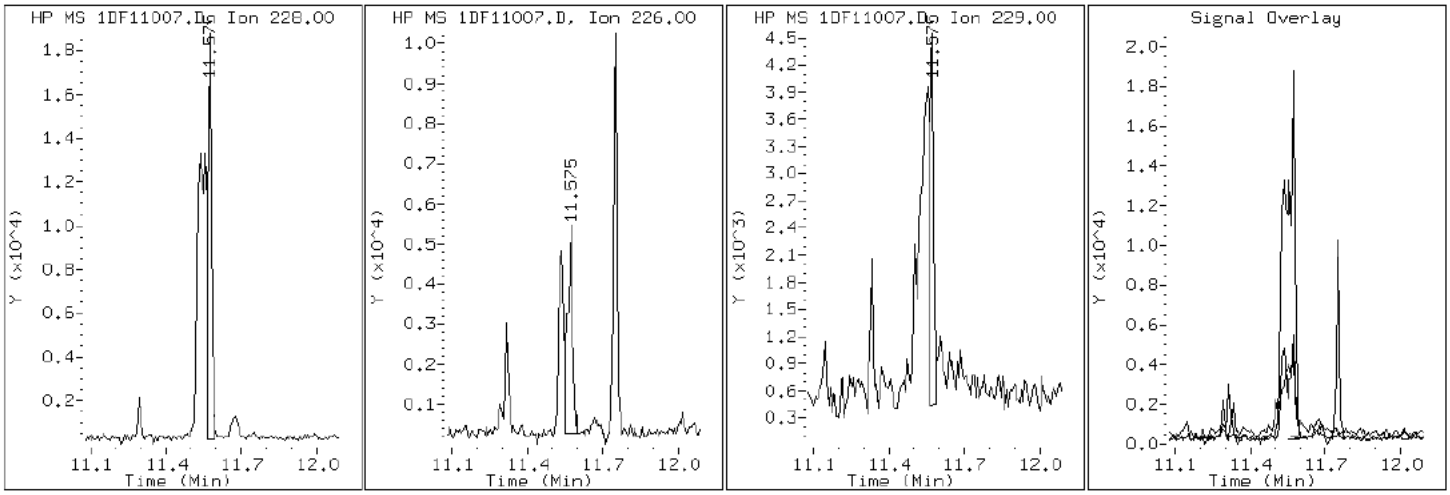
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

20 Chrysene



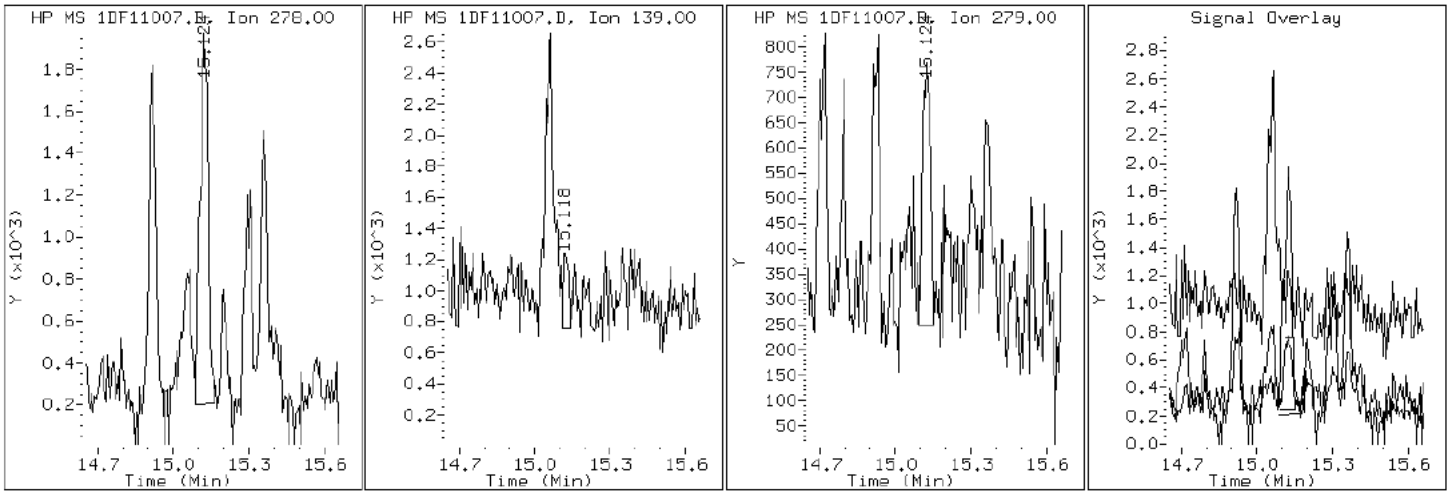
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

26 Dibenzo(a,h)anthracene



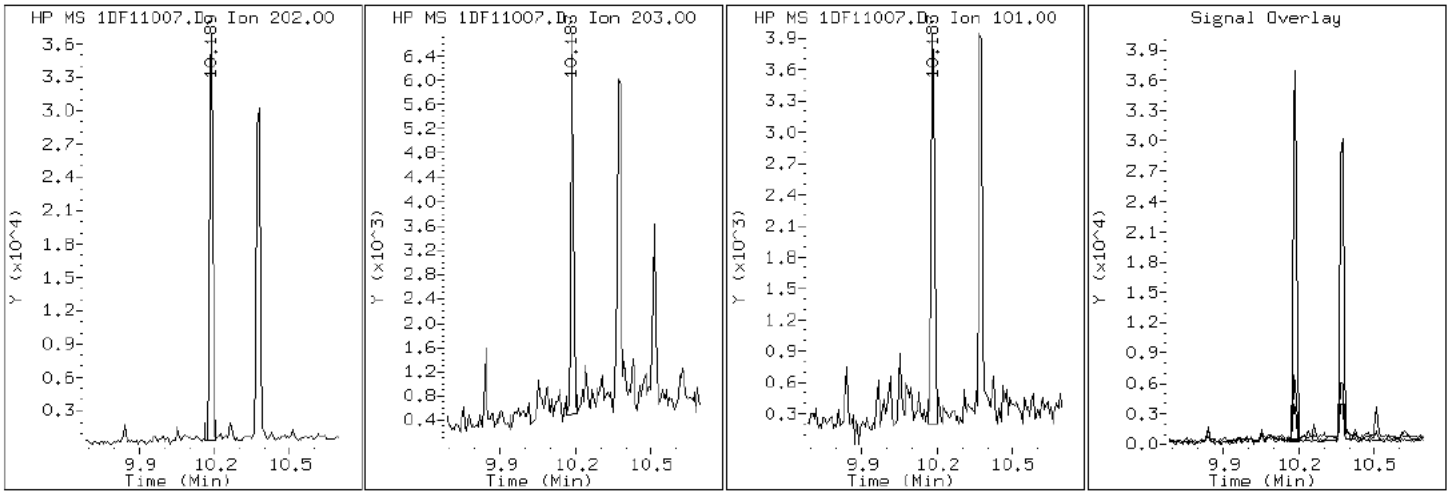
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

16 Fluoranthene



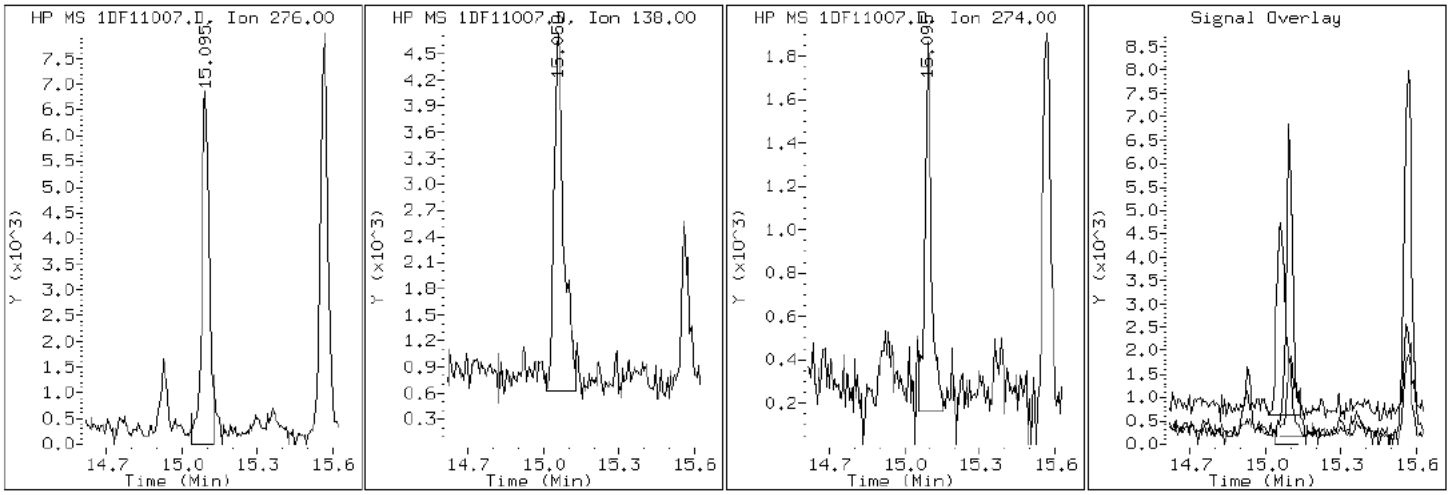
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

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



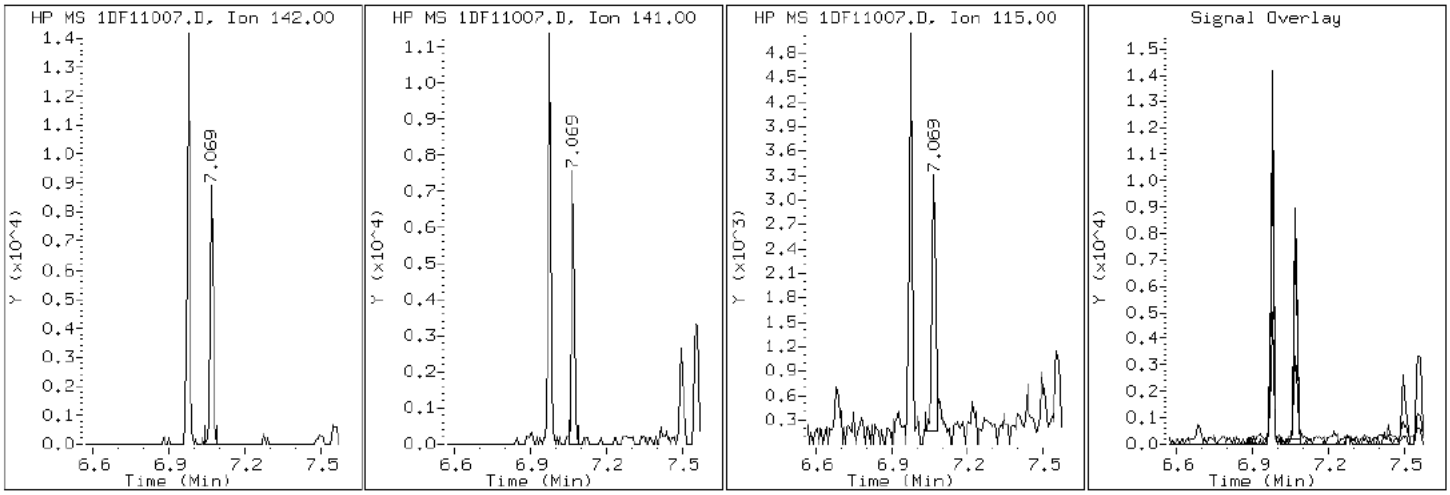
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

4 1-Methylnaphthalene



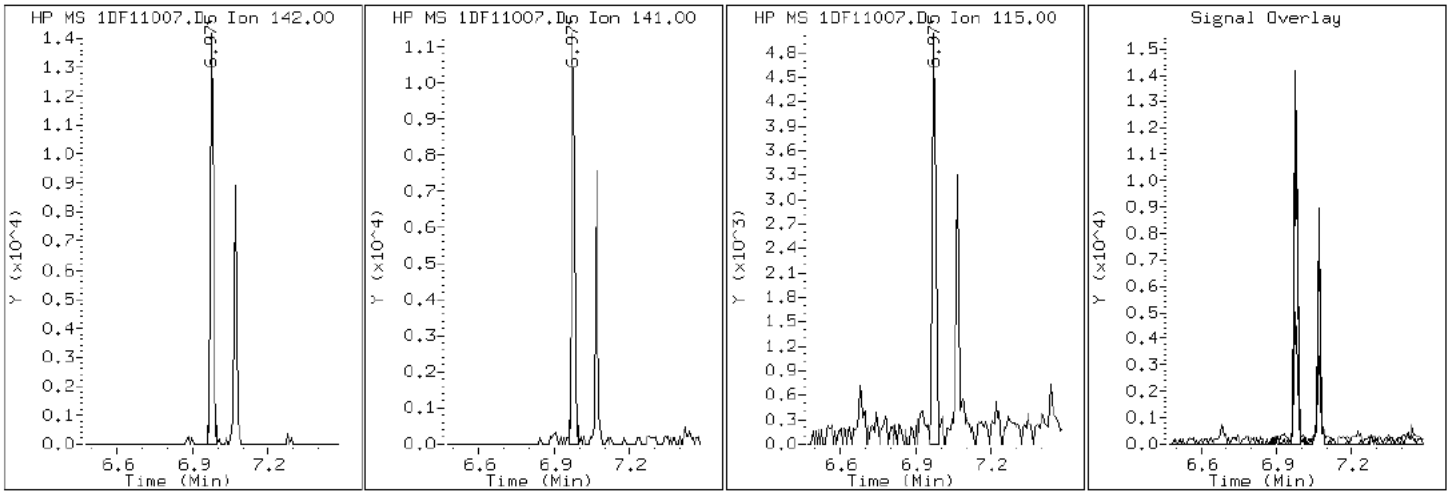
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

3 2-Methylnaphthalene



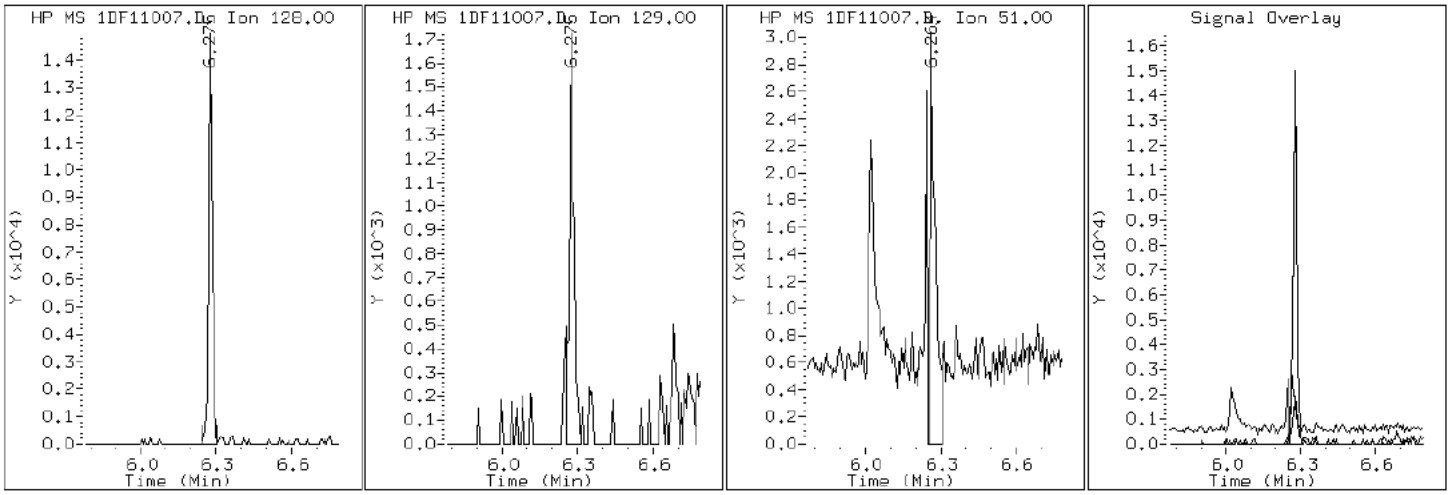
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

2 Naphthalene



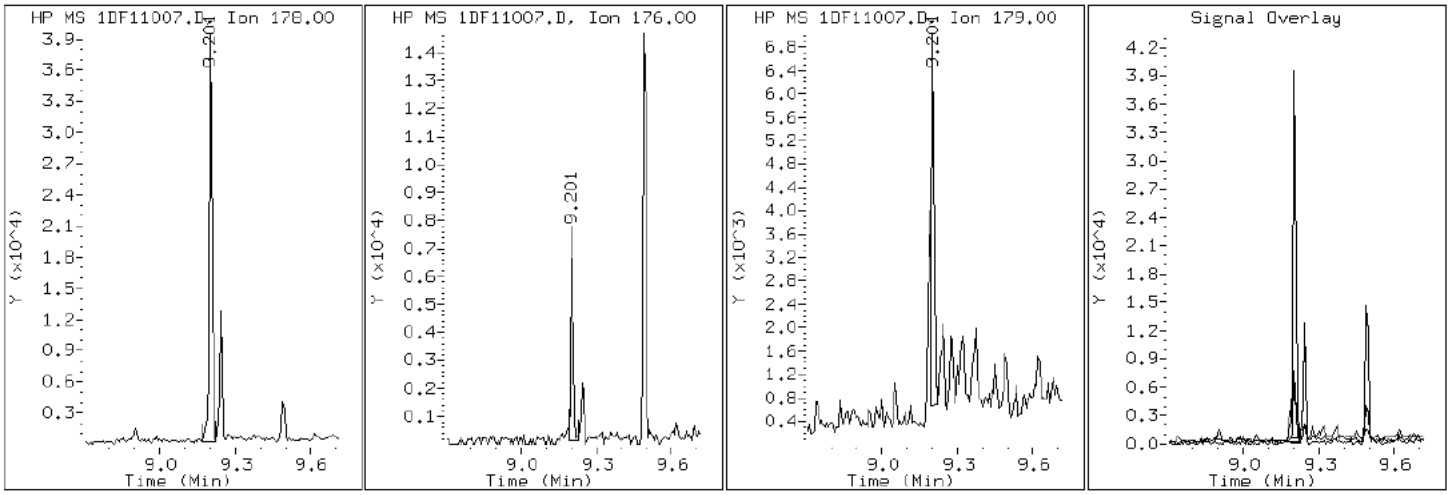
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

12 Phenanthrene



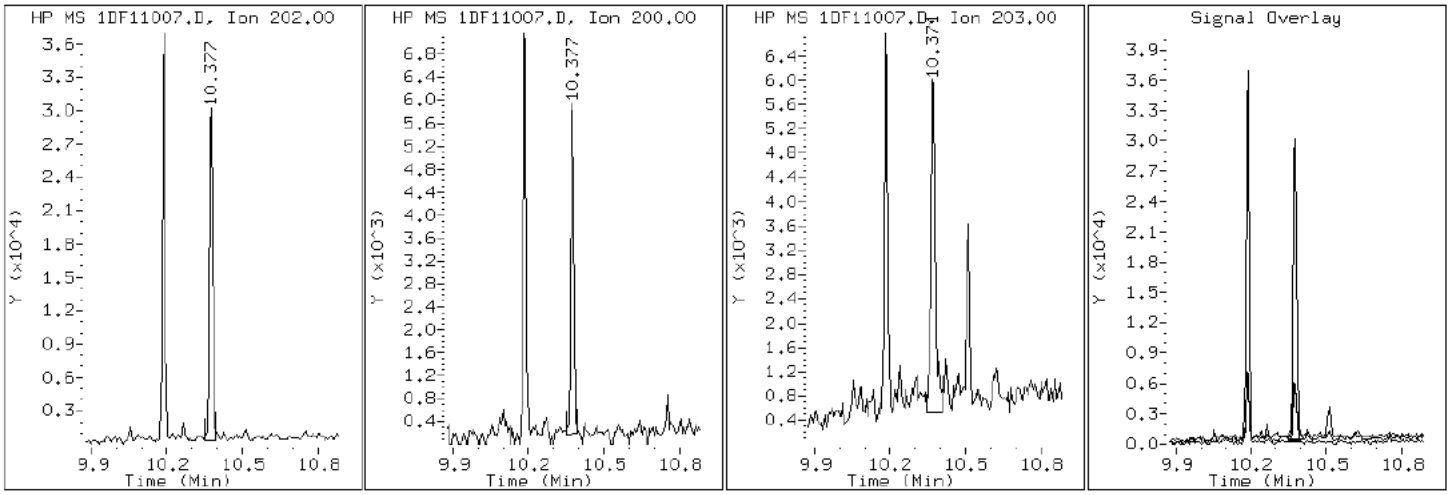
Data File: 1DF11007.D

Date: 11-JUN-2013 13:30

Client ID: CV1025A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-4-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11007.D
Inj. Date and Time: 11-JUN-2013 13:30
Instrument ID: BSMSD.i
Client ID: CV1025A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

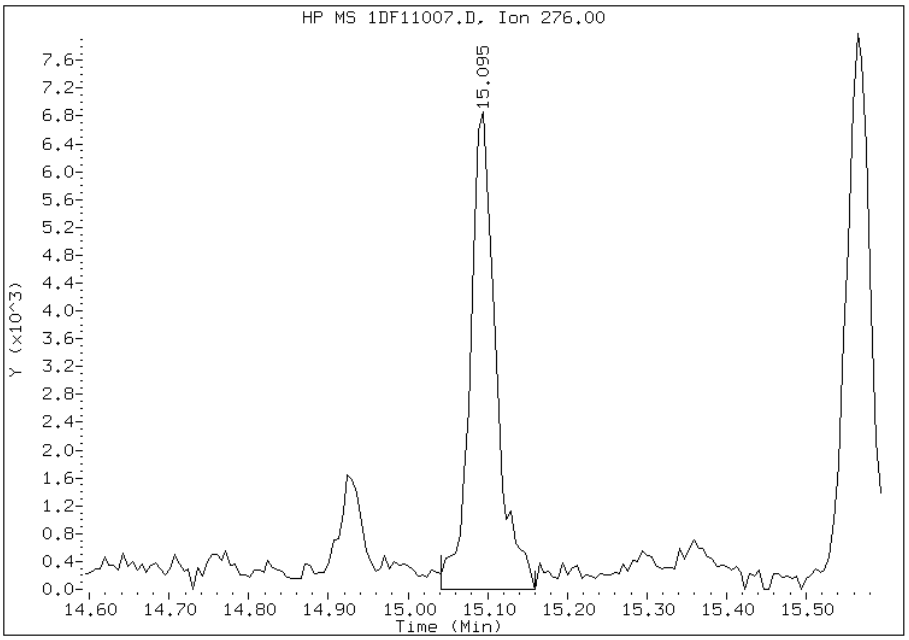
Processing Integration Results

RT: 15.09

Response: 15274

Amount: 0

Conc: 26



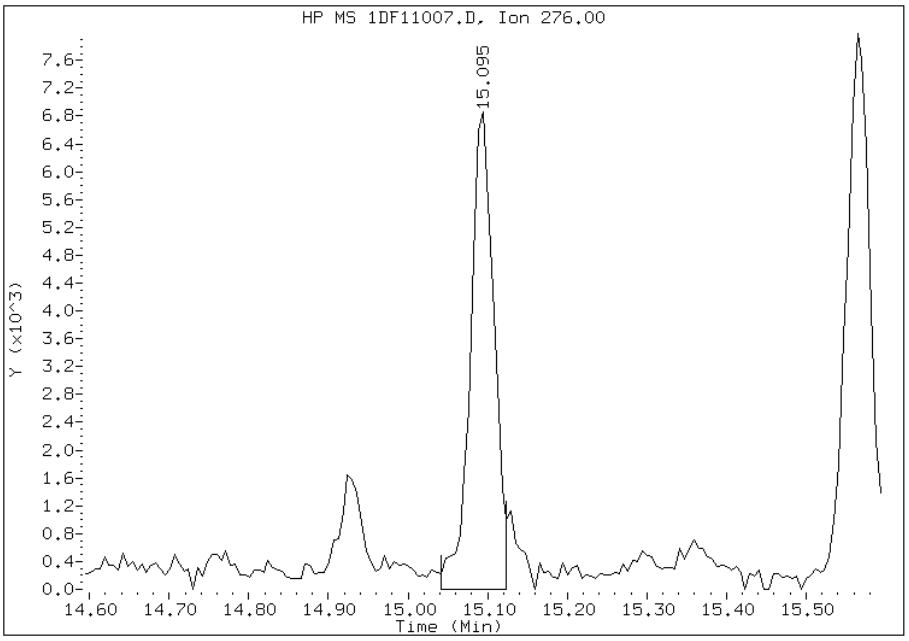
Manual Integration Results

RT: 15.09

Response: 14163

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1029A-CS | Lab Sample ID: 680-90855-5

Matrix: Solid | Lab File ID: 1DF11008.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 10:30

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.07(g) | Date Analyzed: 06/11/2013 13:53

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

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

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	12	J	47	5.8
120-12-7	Anthracene	16		9.8	4.9
56-55-3	Benzo[a]anthracene	46		9.3	4.5
50-32-8	Benzo[a]pyrene	43		12	6.1
205-99-2	Benzo[b]fluoranthene	63		14	7.1
191-24-2	Benzo[g,h,i]perylene	30		23	5.1
207-08-9	Benzo[k]fluoranthene	21		9.3	4.2
218-01-9	Chrysene	54		10	5.2
53-70-3	Dibenz(a,h)anthracene	13	J	23	4.8
206-44-0	Fluoranthene	94		23	4.7
86-73-7	Fluorene	5.0	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	34		23	8.3
90-12-0	1-Methylnaphthalene	13	J	47	5.1
91-57-6	2-Methylnaphthalene	17	J	47	8.3
91-20-3	Naphthalene	23	J	47	5.1
85-01-8	Phenanthrene	99		9.3	4.5
129-00-0	Pyrene	78		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11008.D
Lab Smp Id: 680-90855-A-5-A Client Smp ID: CV1029A-CS
Inj Date : 11-JUN-2013 13:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-5-a
Misc Info : 680-90855-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 8
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	15.070	Weight Extracted
M	14.584	% 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	6.255	6.260	(1.000)	3642987	40.0000	
* 7	Acenaphthene-d10	164	7.930	7.929	(1.000)	2120555	40.0000	
* 11	Phenanthrene-d10	188	9.187	9.192	(1.000)	3424425	40.0000	
$ 15	o-Terphenyl	230	9.493	9.497	(1.033)	299861	5.97705	460
* 19	Chrysene-d12	240	11.555	11.560	(1.000)	3104422	40.0000	
* 24	Perylene-d12	264	13.465	13.469	(1.000)	2677570	40.0000	
2	Naphthalene	128	6.273	6.284	(1.003)	26888	0.29929	23
3	2-Methylnaphthalene	142	6.972	6.977	(1.115)	12269	0.21449	17
4	1-Methylnaphthalene	142	7.066	7.071	(1.130)	9531	0.16185	12
6	Acenaphthylene	152	7.795	7.799	(0.983)	13528	0.15386	12
10	Fluorene	166	8.394	8.399	(1.059)	4043	0.06407	5.0
12	Phenanthrene	178	9.205	9.210	(1.002)	118253	1.27504	99
13	Anthracene	178	9.246	9.251	(1.006)	18891	0.20993	16
16	Fluoranthene	202	10.186	10.191	(1.109)	114759	1.20950	94

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.374	10.379	(0.898)	91433	1.00597	78
18 Benzo(a)anthracene	228	11.531	11.536	(0.998)	54966	0.59660	46
20 Chrysene	228	11.573	11.583	(1.002)	57906	0.69797	54
21 Benzo(b)fluoranthene	252	12.889	12.899	(0.957)	54461	0.81189	63
22 Benzo(k)fluoranthene	252	12.918	12.940	(0.959)	18568	0.26433	20
23 Benzo(a)pyrene	252	13.353	13.369	(0.992)	30362	0.55568	43
25 Indeno(1,2,3-cd)pyrene	276	15.098	15.120	(1.121)	20486	0.44238	34(M)
26 Dibenzo(a,h)anthracene	278	15.127	15.156	(1.123)	6349	0.17118	13(H)
27 Benzo(g,h,i)perylene	276	15.574	15.602	(1.157)	23691	0.38967	30

QC Flag Legend

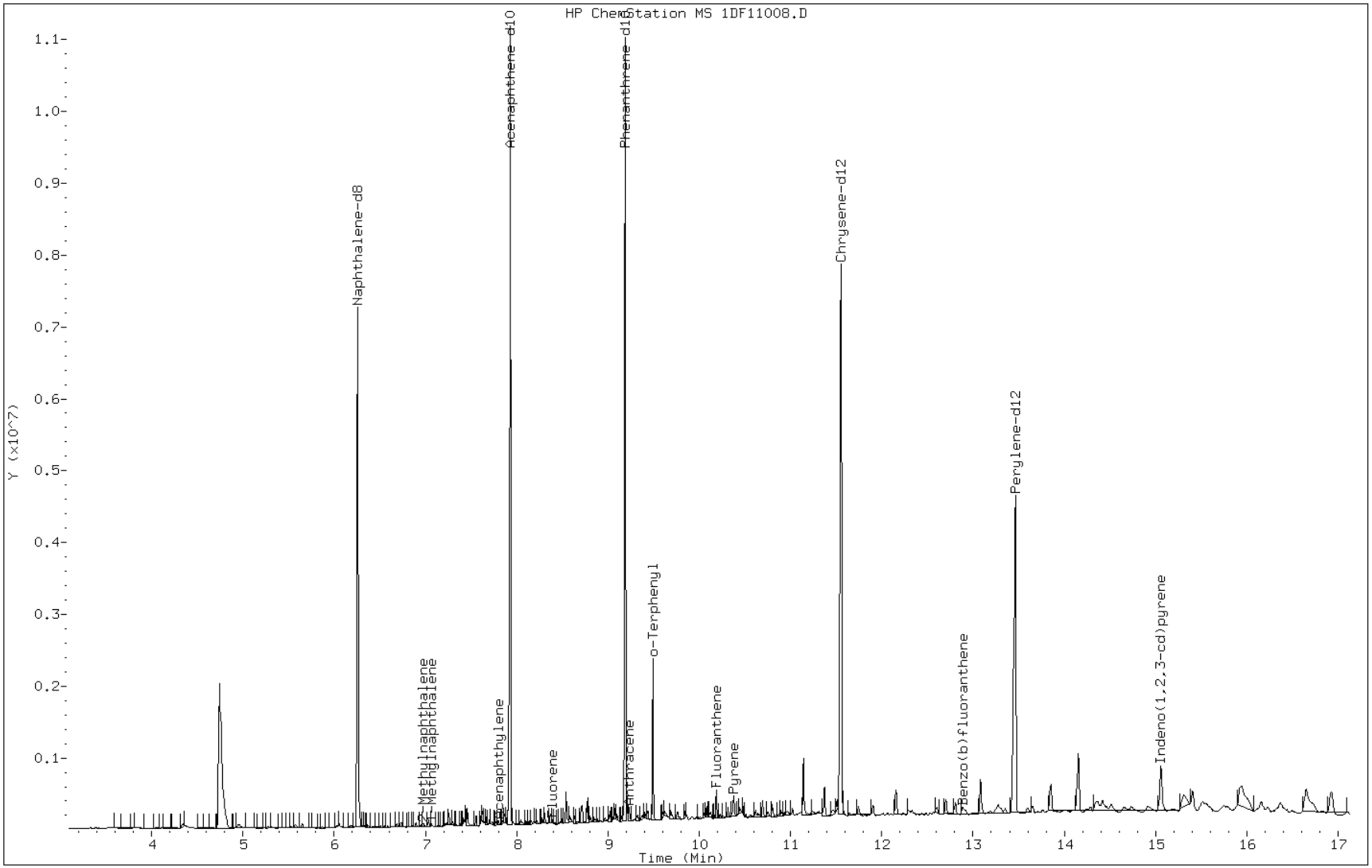
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC



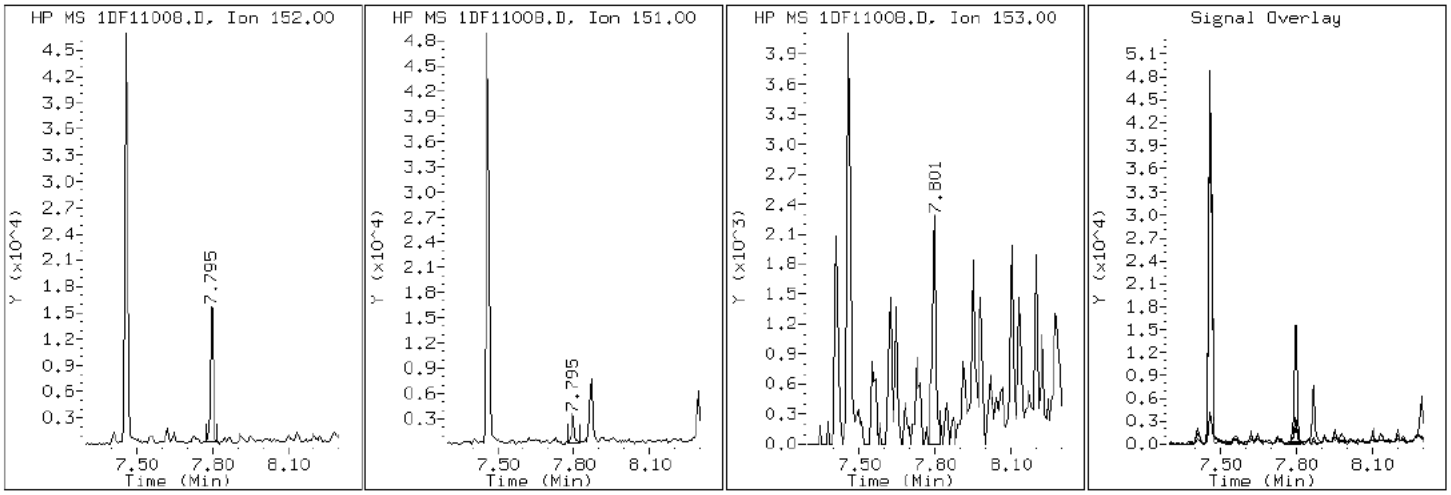
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

6 Acenaphthylene



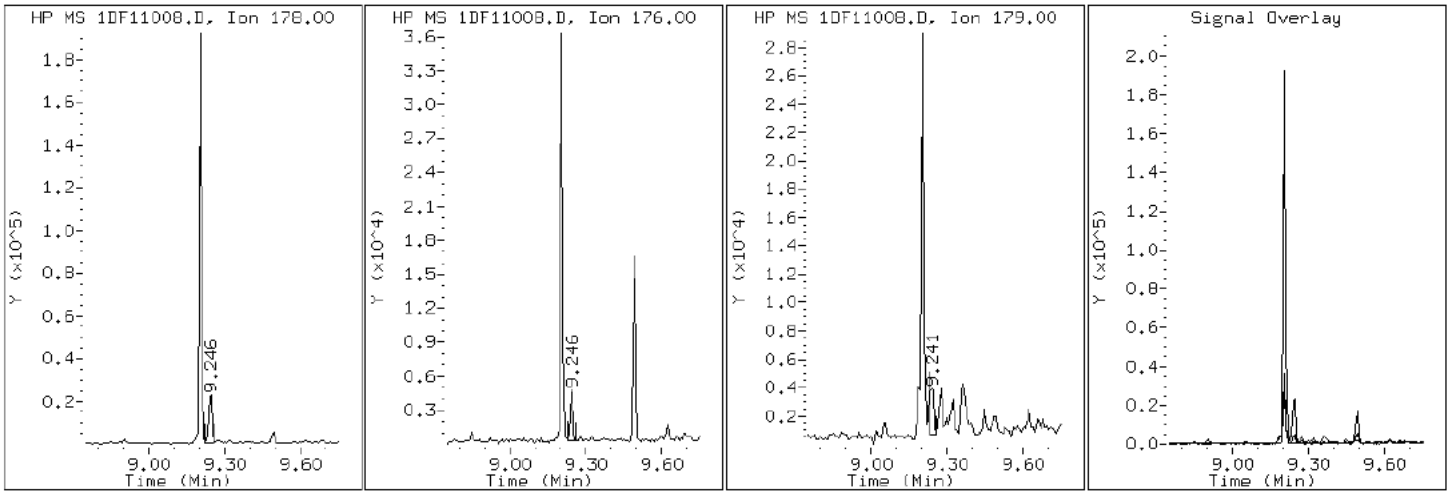
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

13 Anthracene



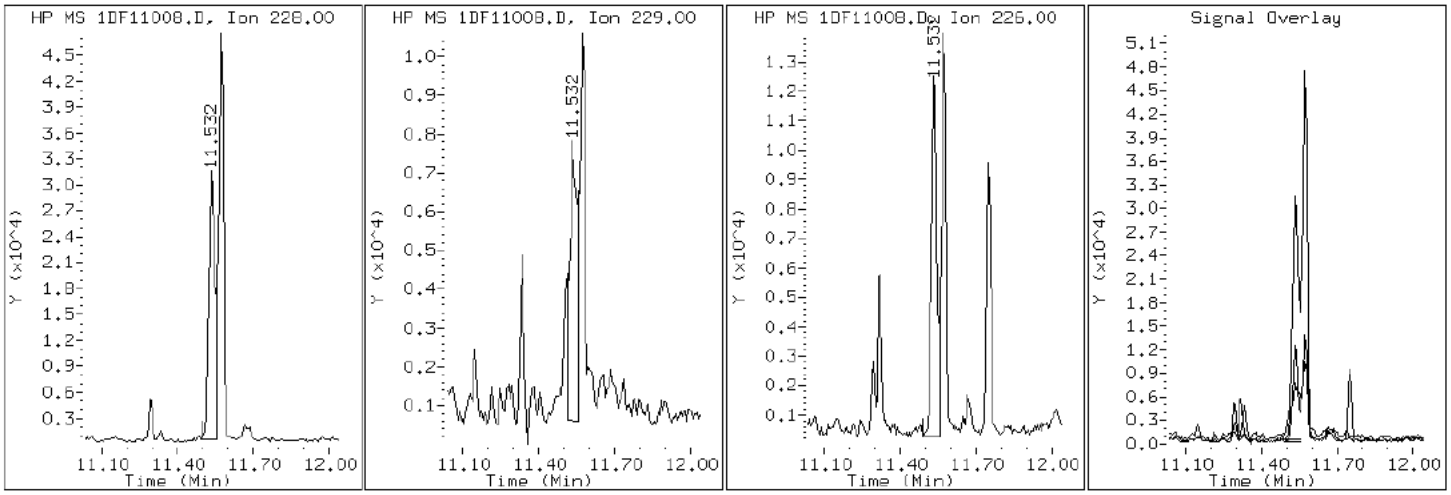
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

18 Benzo(a)anthracene



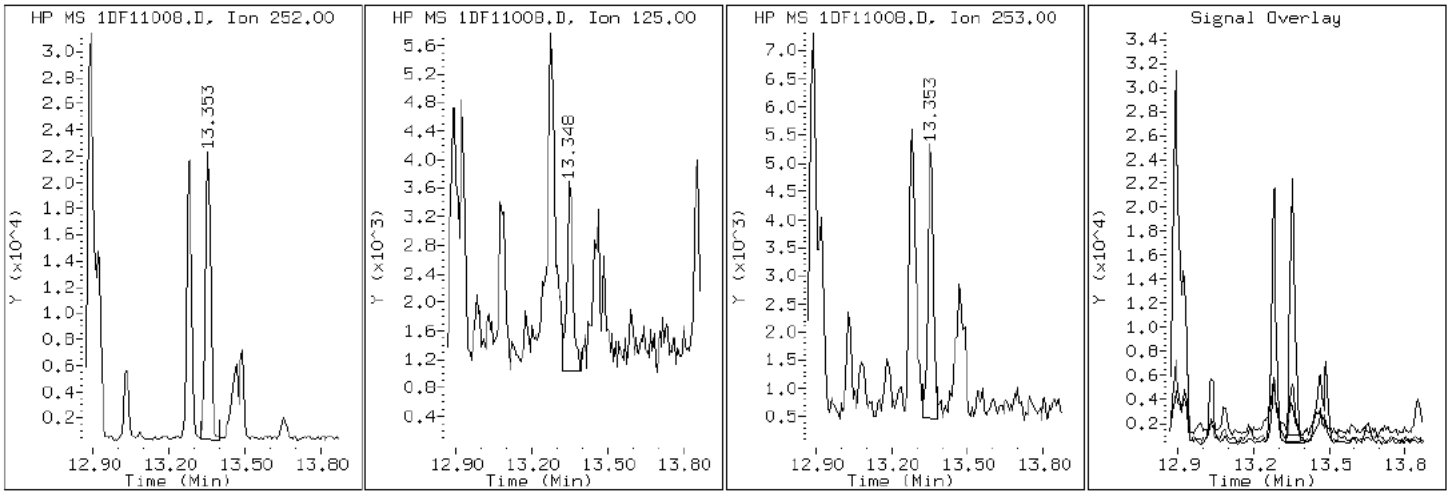
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

23 Benzo(a)pyrene



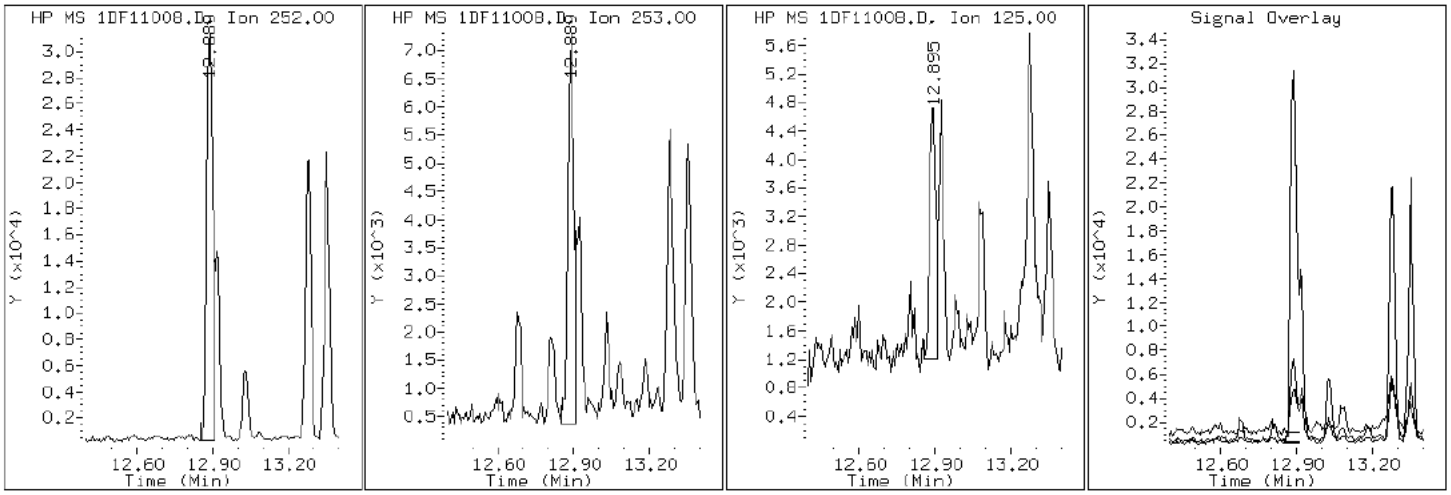
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

21 Benzo(b)fluoranthene



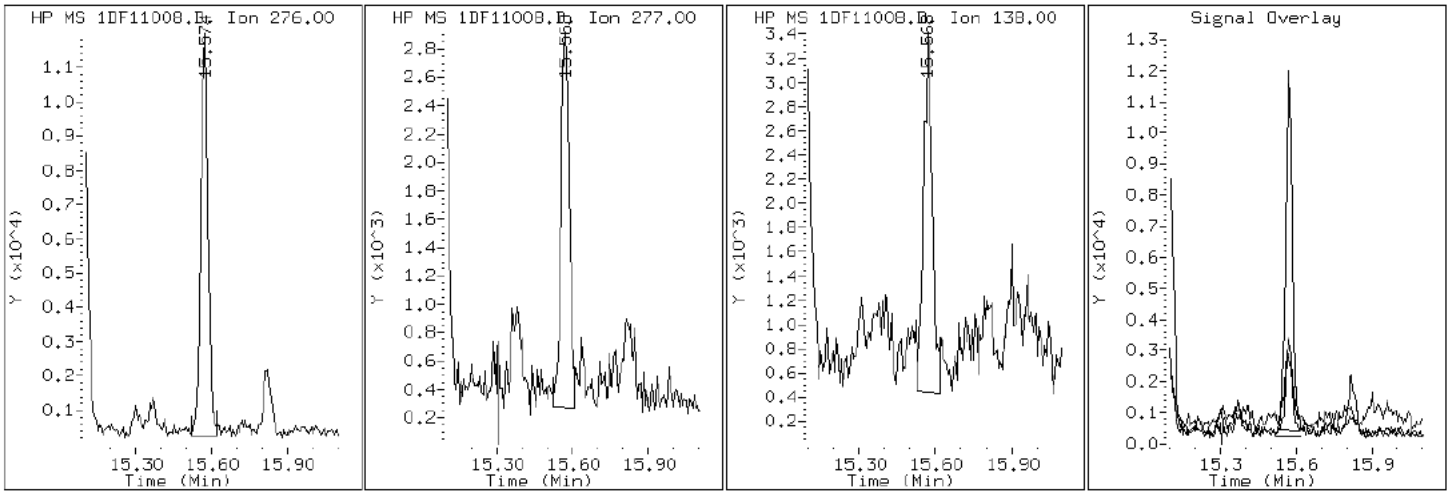
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

27 Benzo(g,h,i)perylene



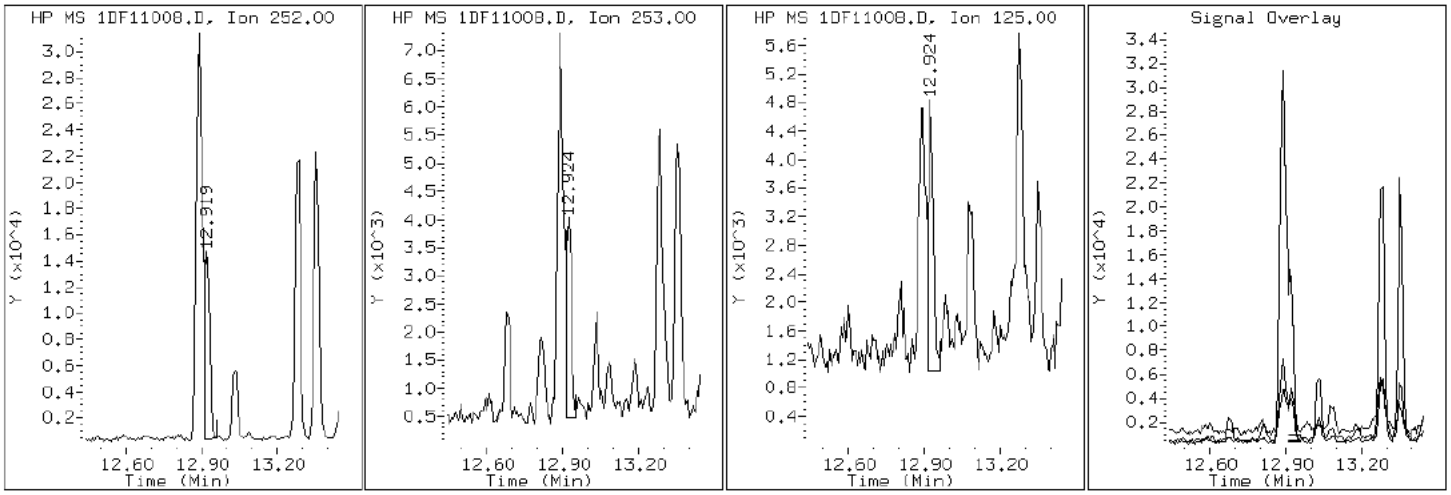
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

22 Benzo(k)fluoranthene



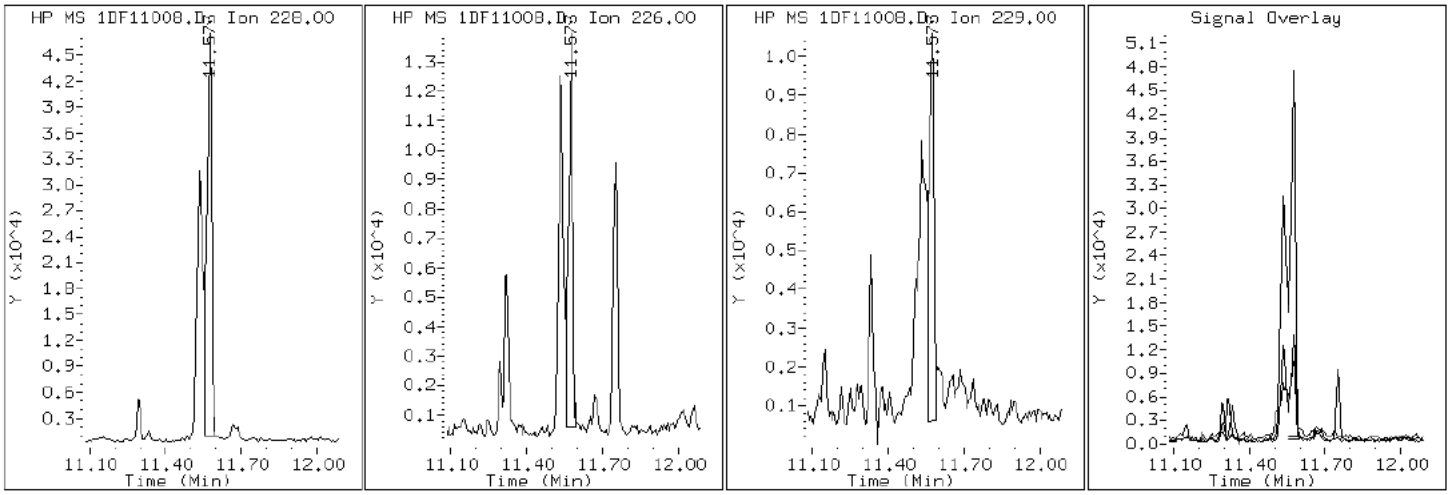
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

20 Chrysene



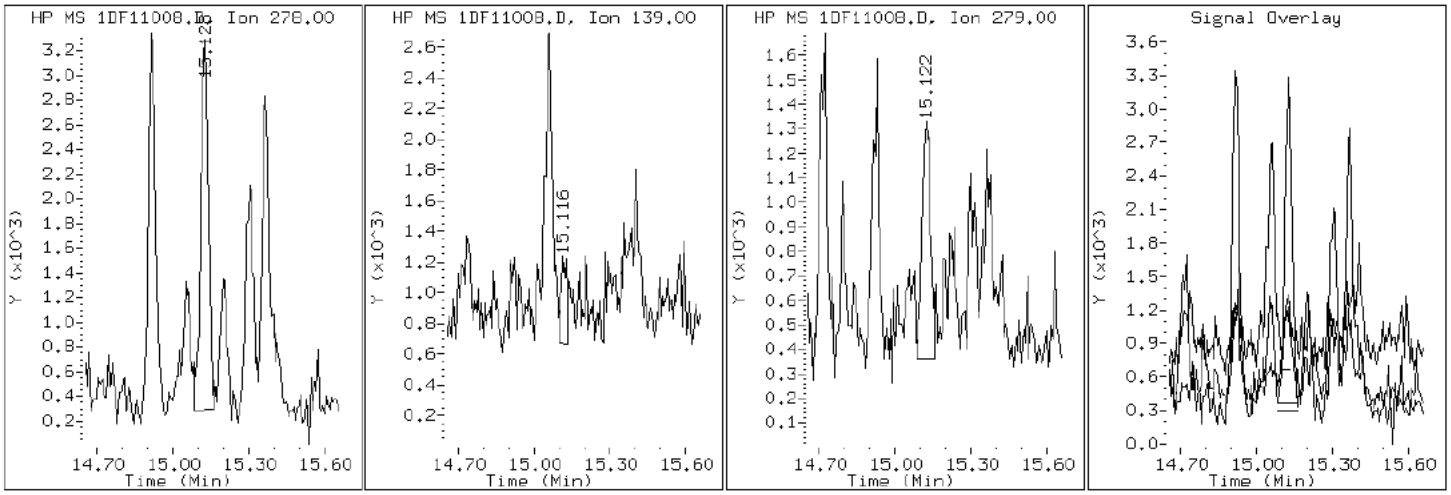
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

26 Dibenzo(a,h)anthracene



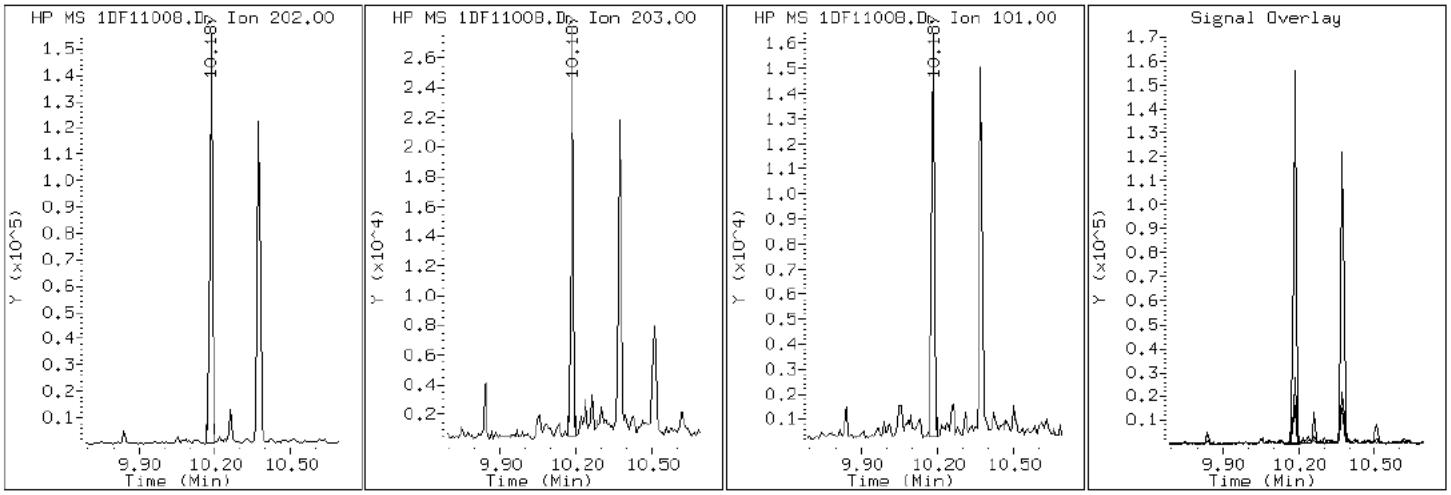
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

16 Fluoranthene



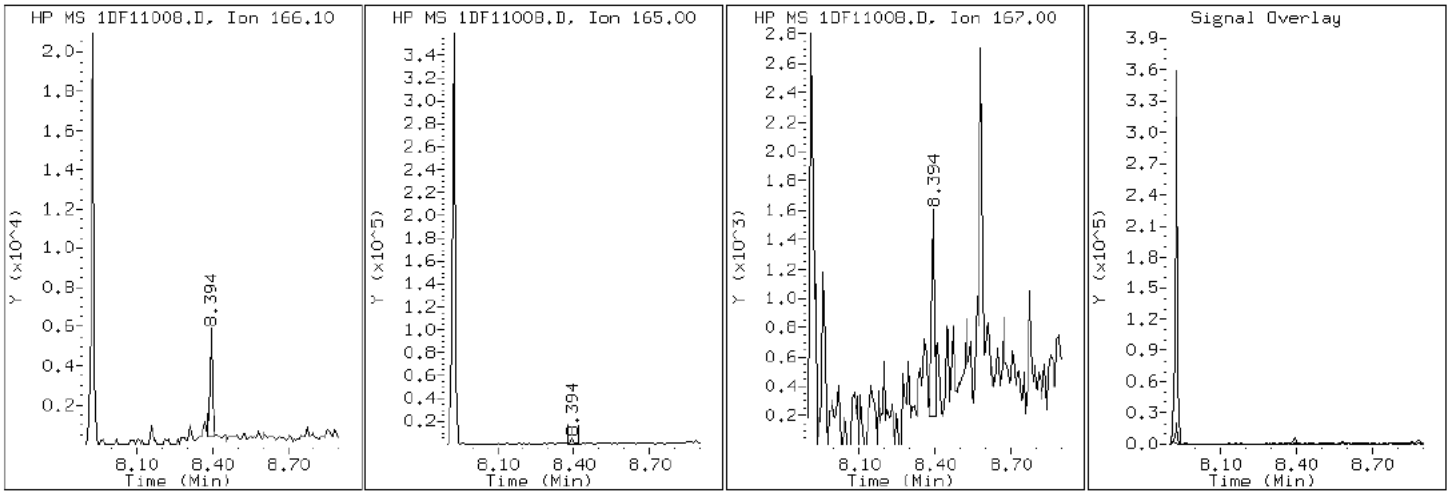
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

10 Fluorene



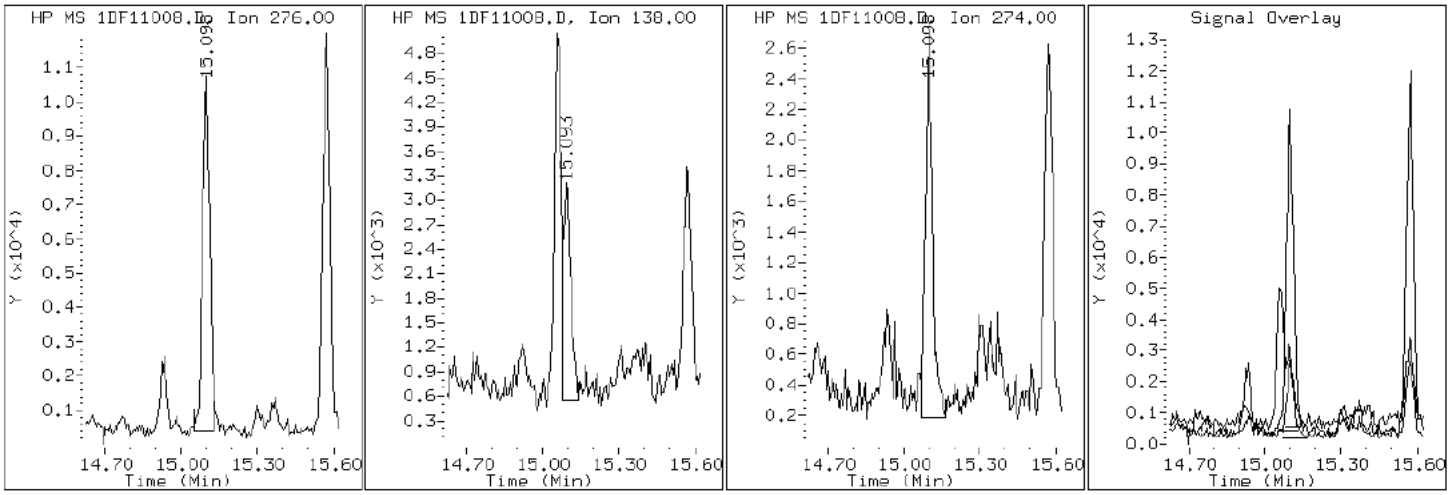
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

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



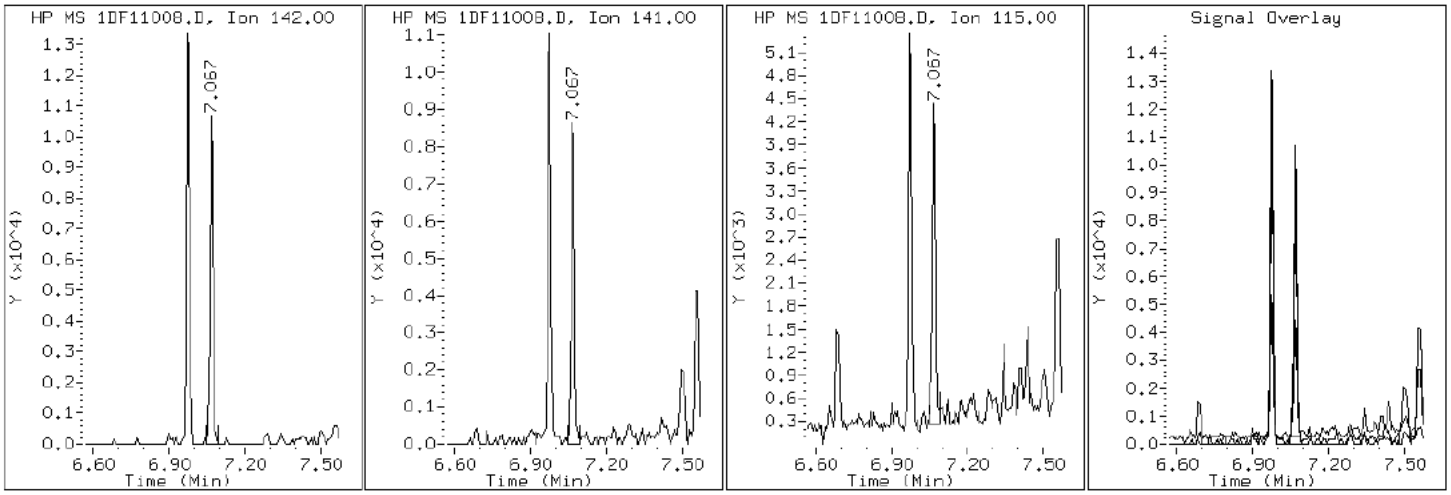
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

4 1-Methylnaphthalene



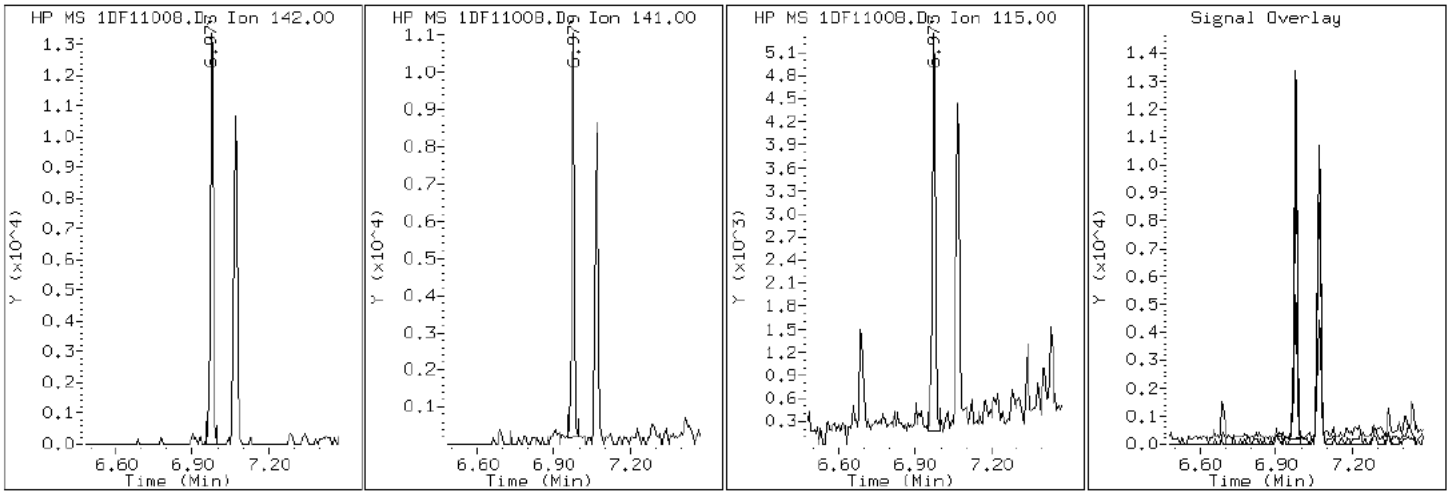
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

3 2-Methylnaphthalene



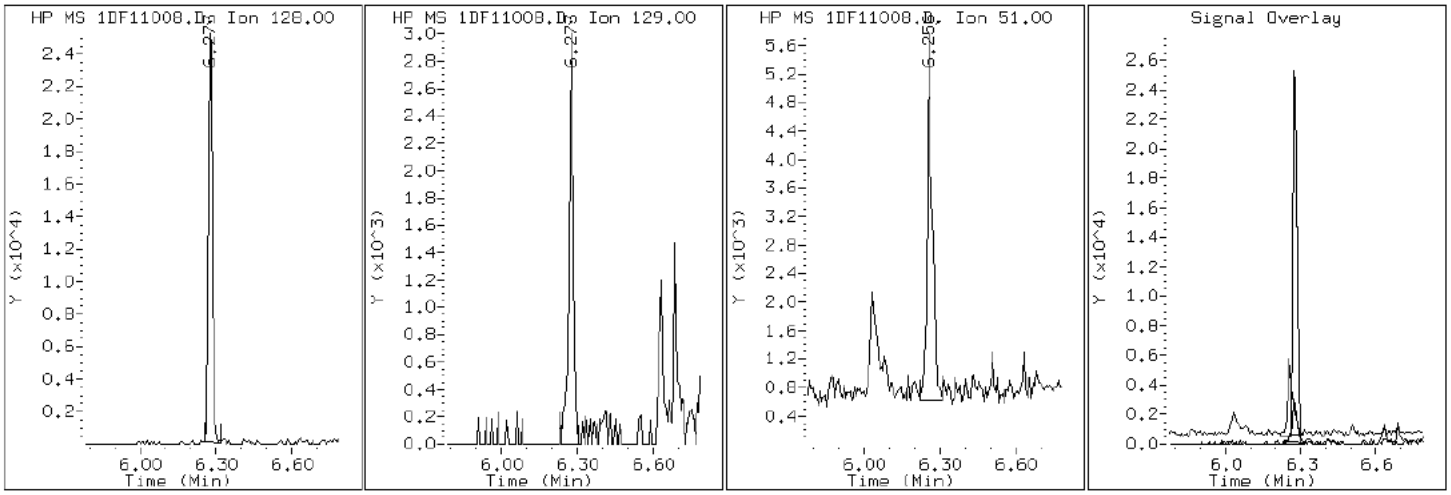
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

2 Naphthalene



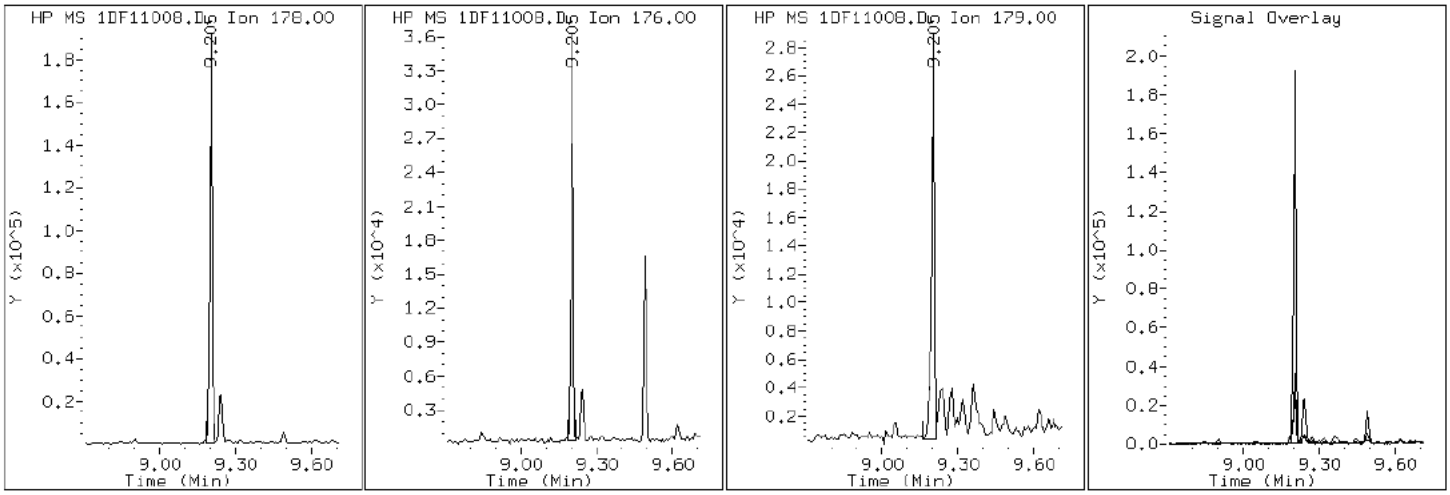
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

12 Phenanthrene



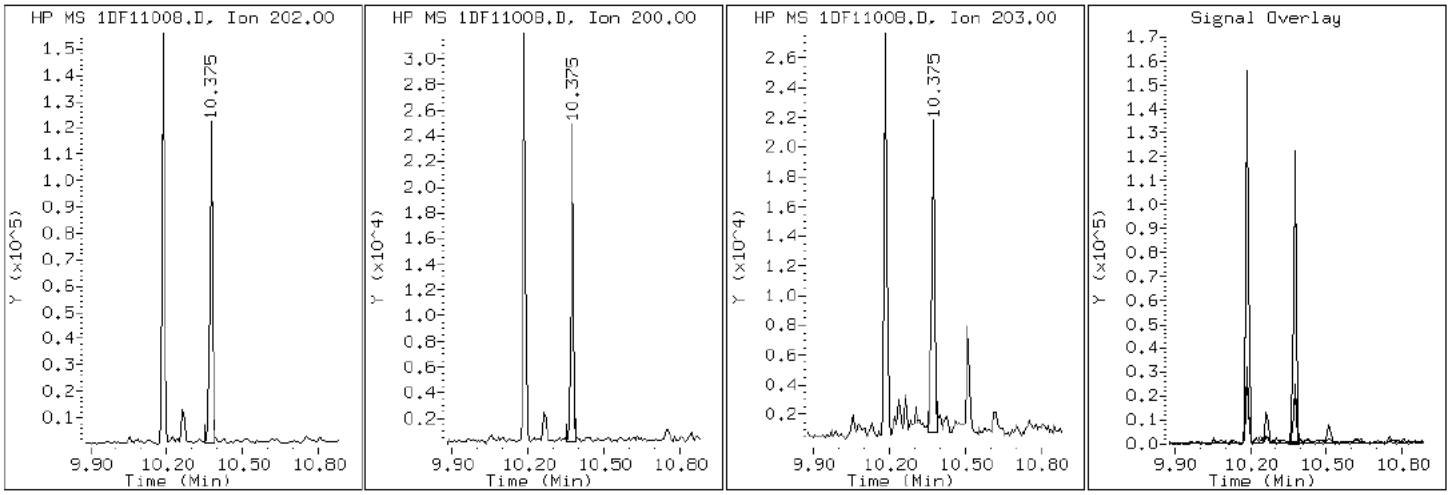
Data File: 1DF11008.D

Date: 11-JUN-2013 13:53

Client ID: CV1029A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-5-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11008.D
Inj. Date and Time: 11-JUN-2013 13:53
Instrument ID: BSMSD.i
Client ID: CV1029A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

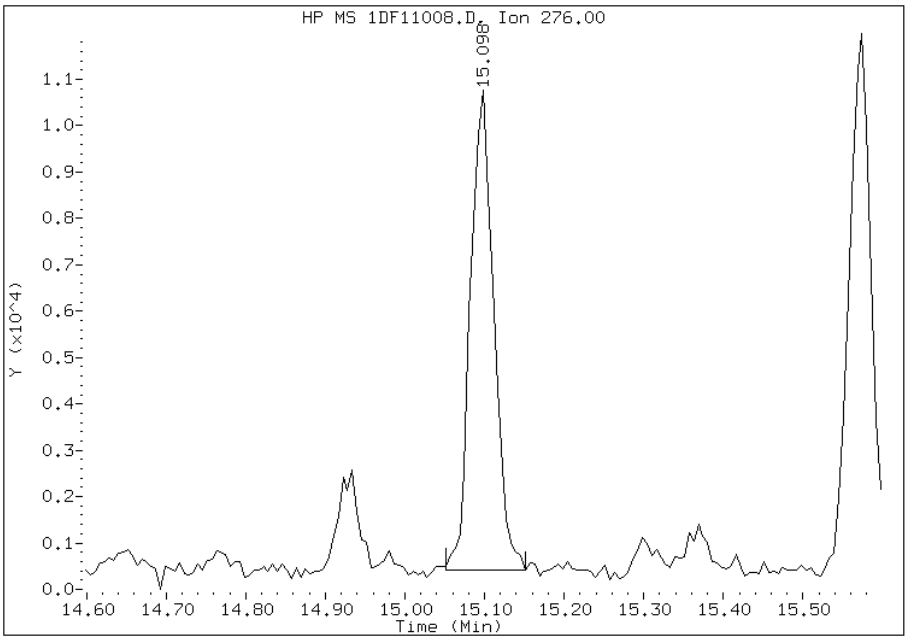
Processing Integration Results

RT: 15.10

Response: 20952

Amount: 0

Conc: 35



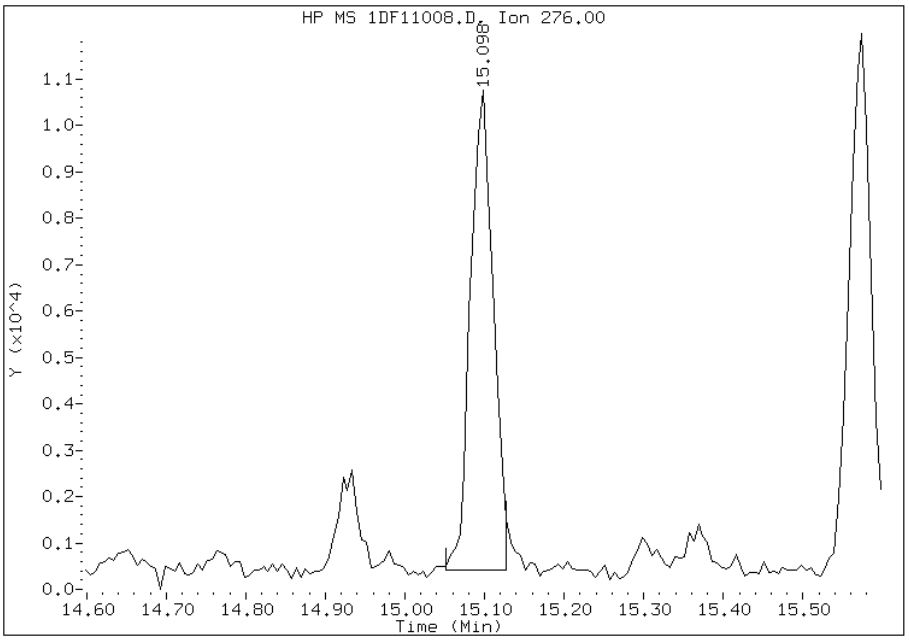
Manual Integration Results

RT: 15.10

Response: 20486

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1112A-CS | Lab Sample ID: 680-90855-6

Matrix: Solid | Lab File ID: 1DF11009.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 10:36

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.29(g) | Date Analyzed: 06/11/2013 14:15

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

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

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	U	440	89
208-96-8	Acenaphthylene	180	U	180	22
120-12-7	Anthracene	37	U	37	19
56-55-3	Benzo[a]anthracene	55		35	17
50-32-8	Benzo[a]pyrene	100		46	23
205-99-2	Benzo[b]fluoranthene	120		54	27
191-24-2	Benzo[g,h,i]perylene	82	J	89	19
207-08-9	Benzo[k]fluoranthene	42		35	16
218-01-9	Chrysene	150		40	20
53-70-3	Dibenz(a,h)anthracene	43	J	89	18
206-44-0	Fluoranthene	110		89	18
86-73-7	Fluorene	89	U	89	18
193-39-5	Indeno[1,2,3-cd]pyrene	95		89	31
90-12-0	1-Methylnaphthalene	50	J	180	19
91-57-6	2-Methylnaphthalene	85	J	180	31
91-20-3	Naphthalene	57	J	180	19
85-01-8	Phenanthrene	98		35	17
129-00-0	Pyrene	97		89	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11009.D
Lab Smp Id: 680-90855-A-6-A Client Smp ID: CV1112A-CS
Inj Date : 11-JUN-2013 14:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-6-a
Misc Info : 680-90855-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 9
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	15.290	Weight Extracted
M	11.319	% 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	6.260	6.260	(1.000)	3449284	40.0000	
* 7	Acenaphthene-d10	164	7.929	7.929	(1.000)	2038070	40.0000	
* 11	Phenanthrene-d10	188	9.186	9.192	(1.000)	3278440	40.0000	
$ 15	o-Terphenyl	230	9.492	9.497	(1.033)	73912	1.53887	450
* 19	Chrysene-d12	240	11.554	11.560	(1.000)	2993694	40.0000	
* 24	Perylene-d12	264	13.463	13.469	(1.000)	2687716	40.0000	
2	Naphthalene	128	6.278	6.284	(1.003)	16493	0.19390	57
3	2-Methylnaphthalene	142	6.977	6.977	(1.114)	15519	0.28654	84
4	1-Methylnaphthalene	142	7.071	7.071	(1.129)	9425	0.16904	50
6	Acenaphthylene	152	7.799	7.799	(0.984)	4170	0.04935	14
12	Phenanthrene	178	9.204	9.210	(1.002)	29359	0.33065	98
13	Anthracene	178	9.245	9.251	(1.006)	5398	0.06266	18
16	Fluoranthene	202	10.185	10.191	(1.109)	33942	0.37366	110
17	Pyrene	202	10.373	10.379	(0.898)	28863	0.32931	97

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	11.536	11.536	(0.998)	16503	0.18575	55
20 Chrysene	228	11.577	11.583	(1.002)	41160	0.51447	150
21 Benzo(b)fluoranthene	252	12.893	12.899	(0.958)	27925	0.41473	120
22 Benzo(k)fluoranthene	252	12.923	12.940	(0.960)	10036	0.14233	42
23 Benzo(a)pyrene	252	13.358	13.369	(0.992)	16036	0.33904	100
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.120	(1.122)	12099	0.32122	95(M)
26 Dibenzo(a,h)anthracene	278	15.126	15.156	(1.123)	4705	0.14521	43
27 Benzo(g,h,i)perylene	276	15.573	15.602	(1.157)	16963	0.27795	82

QC Flag Legend

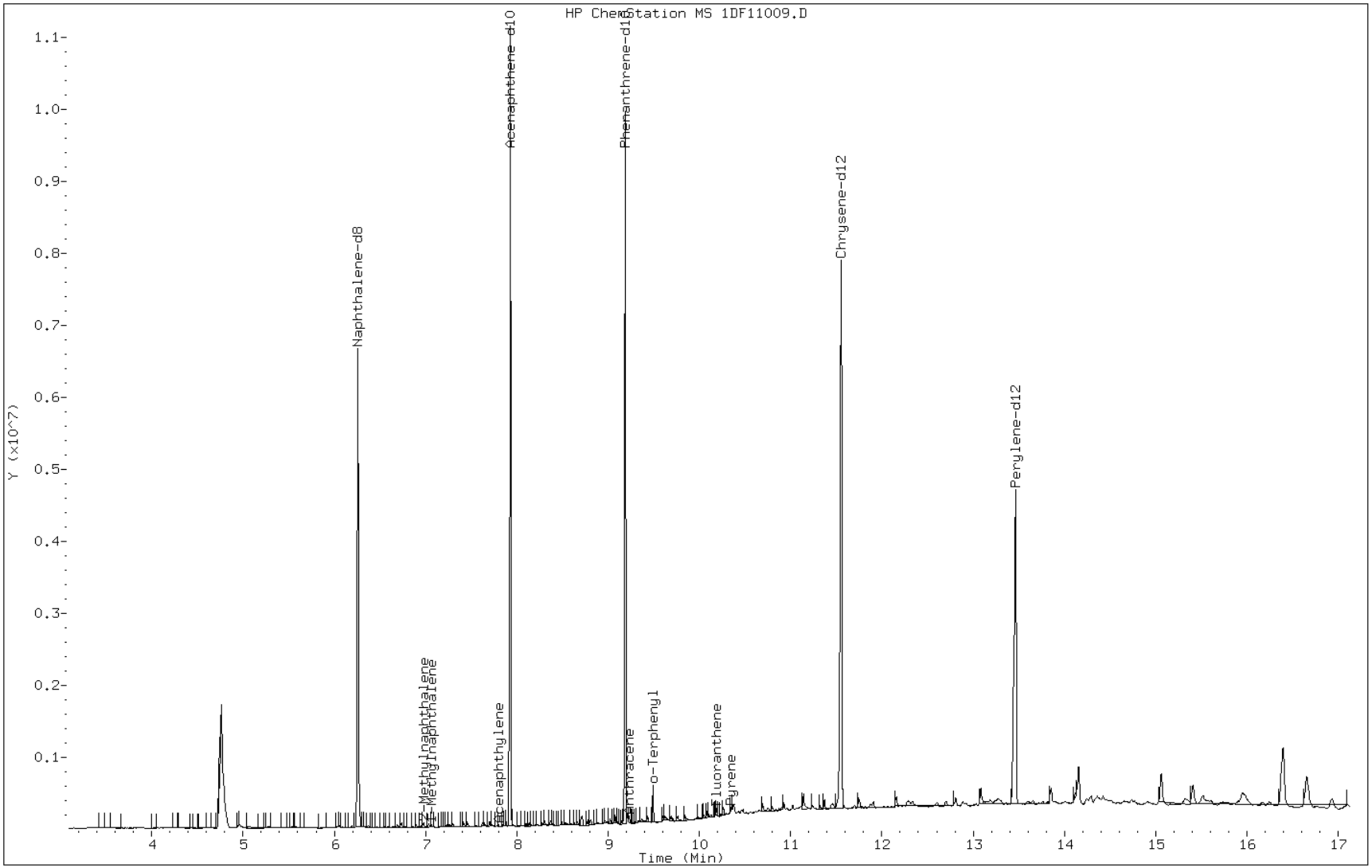
M - Compound response manually integrated.

Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC



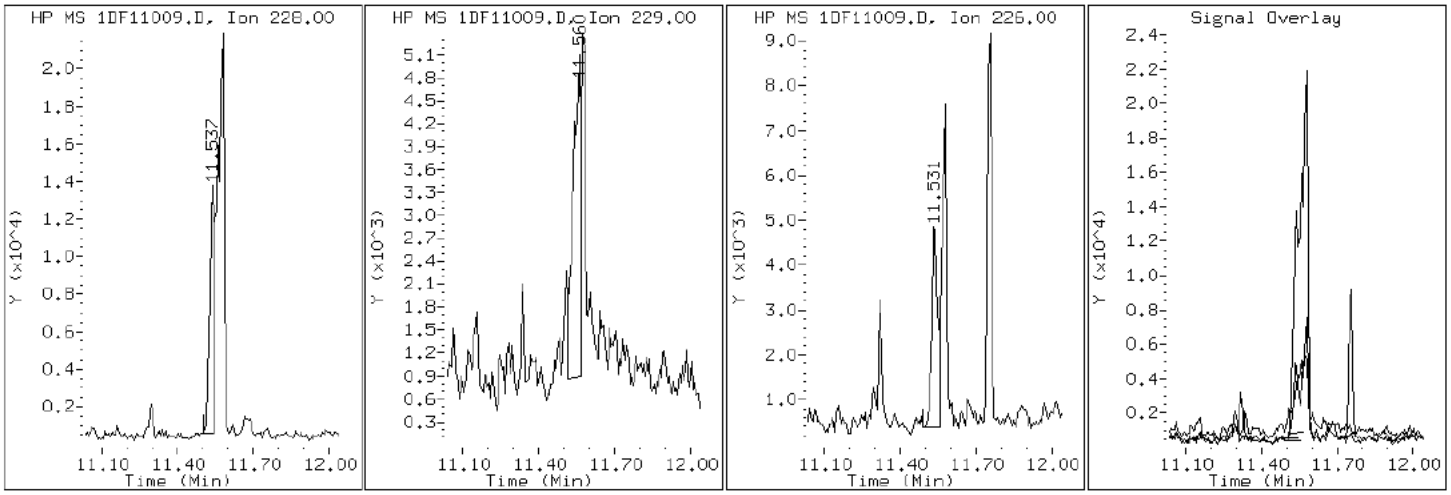
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

18 Benzo(a)anthracene



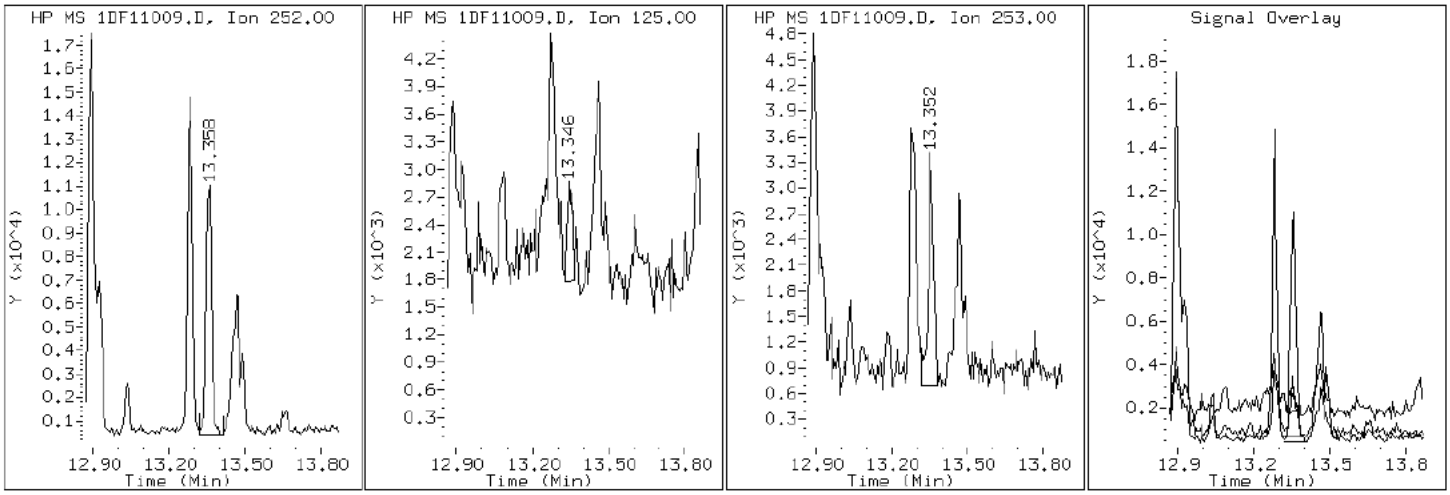
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

23 Benzo(a)pyrene



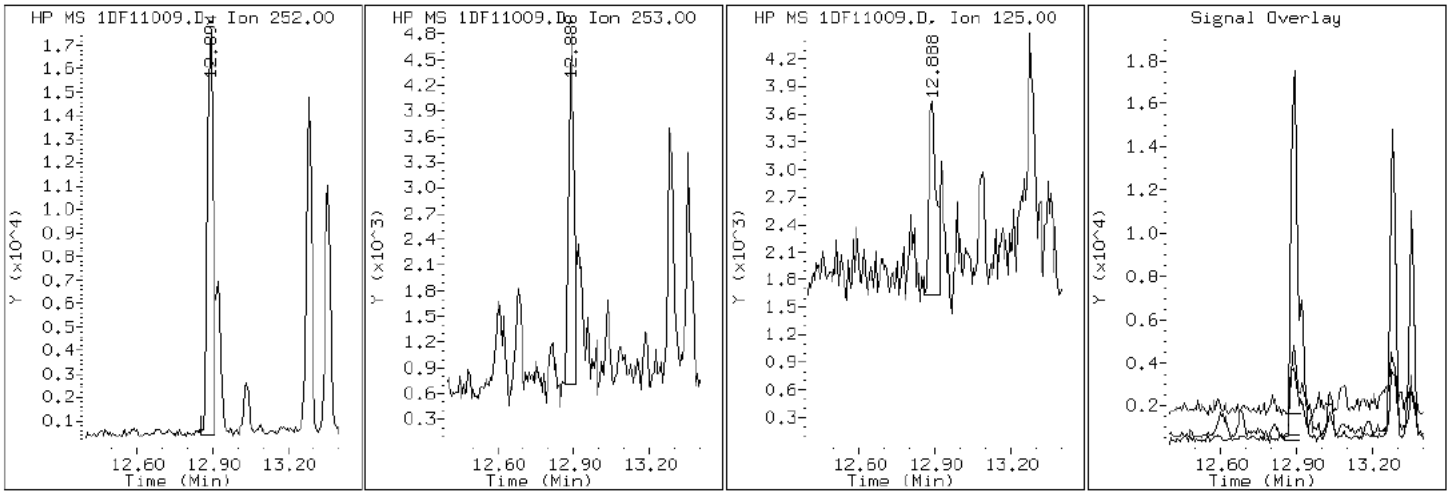
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

21 Benzo(b)fluoranthene



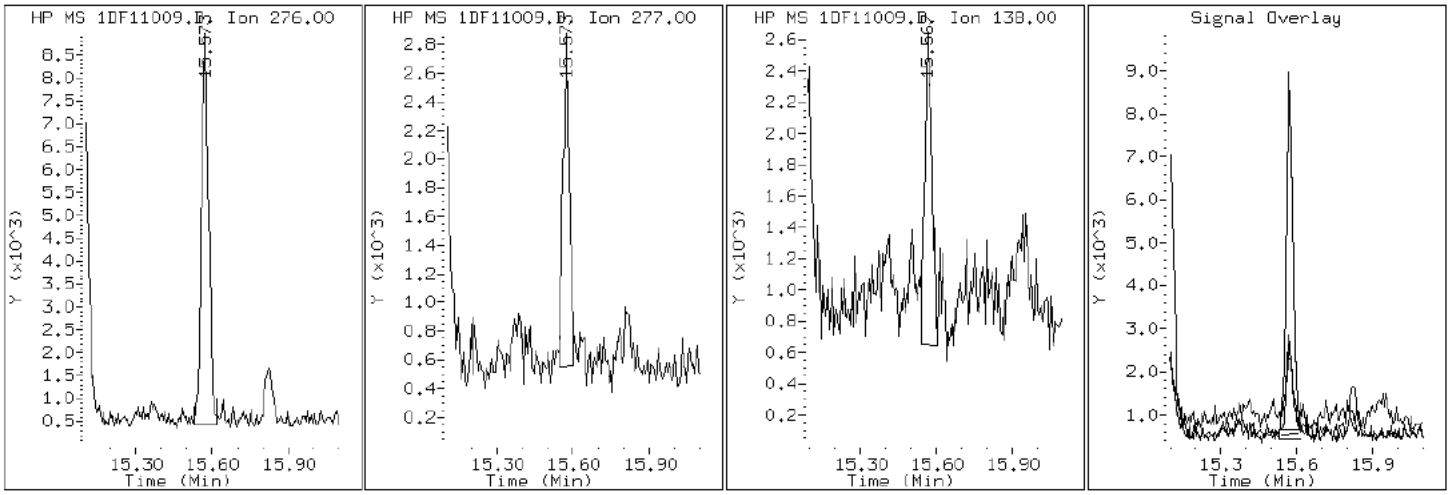
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

27 Benzo(g,h,i)perylene



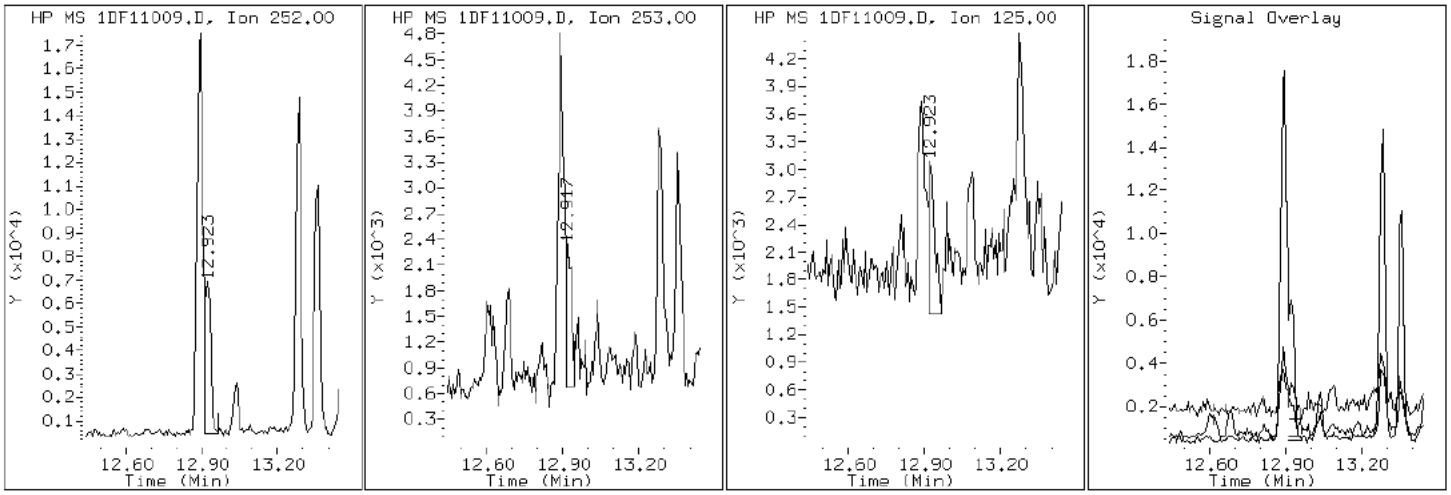
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

22 Benzo(k)fluoranthene



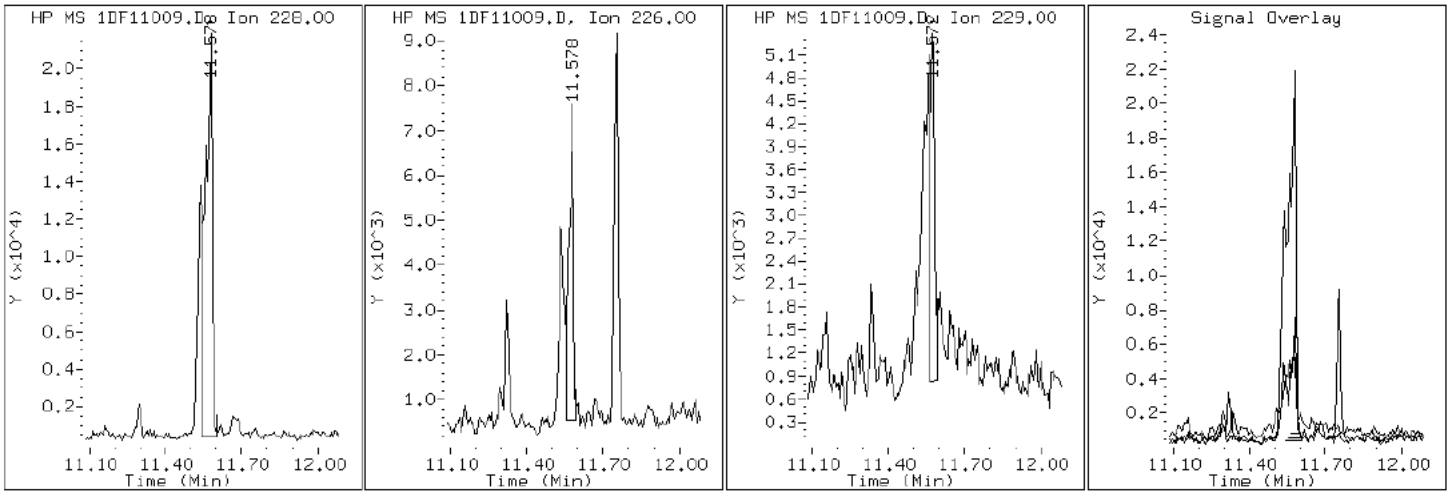
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

20 Chrysene



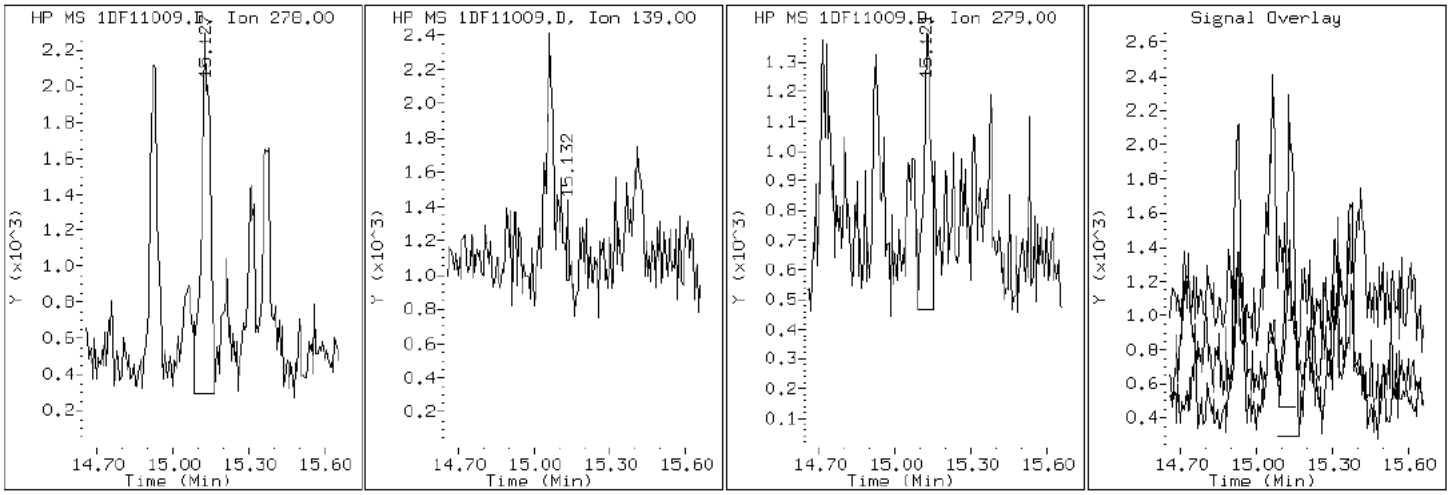
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

26 Dibenzo(a,h)anthracene



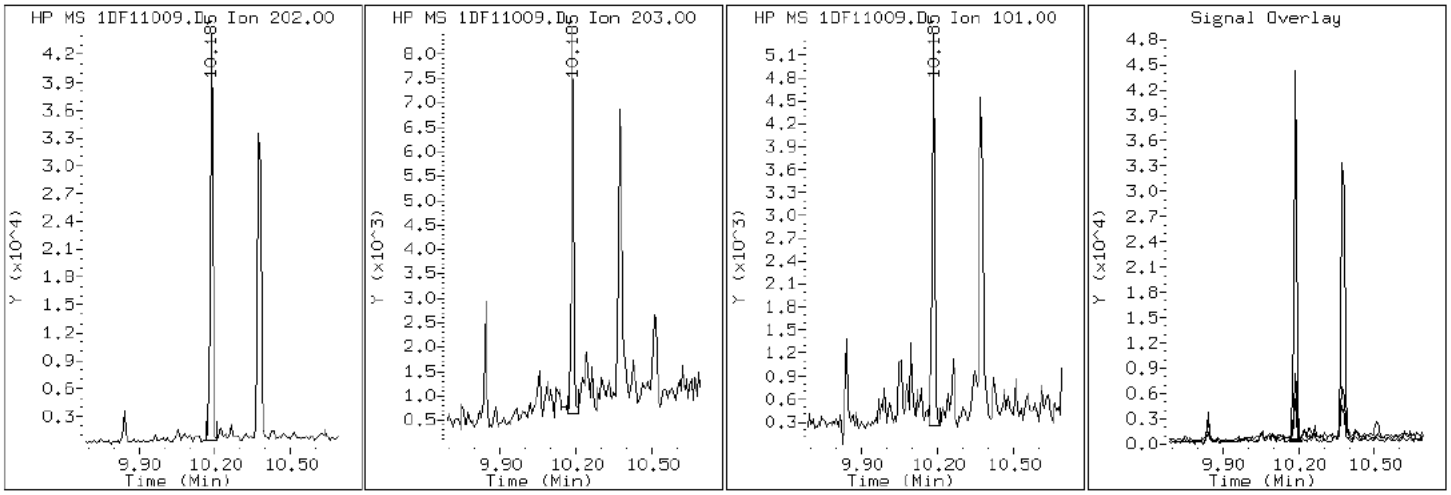
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

16 Fluoranthene



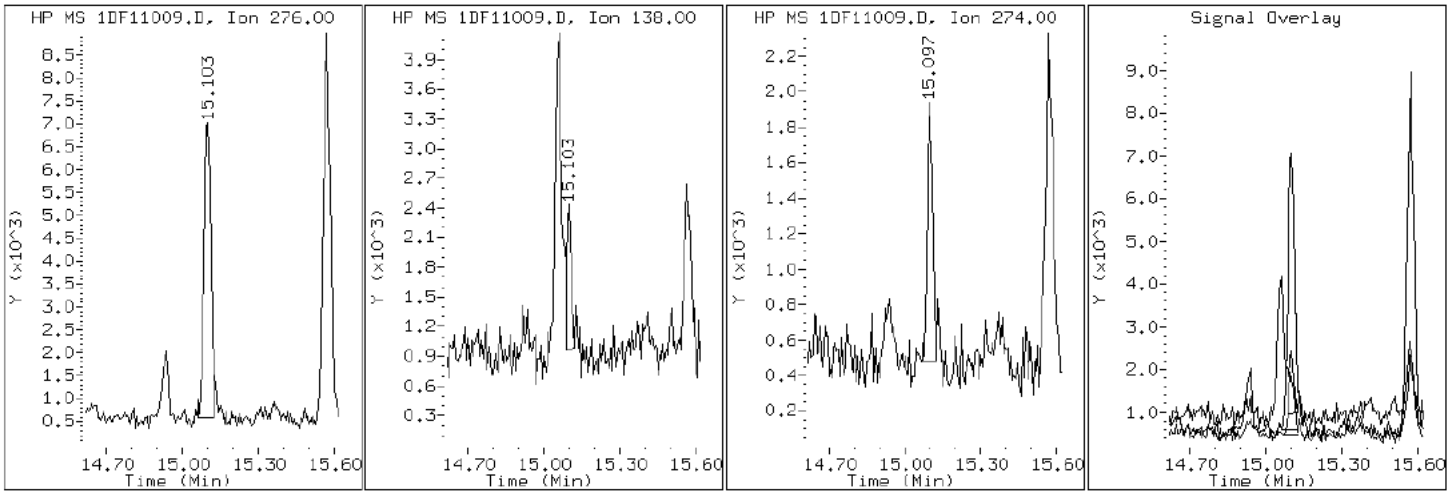
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

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



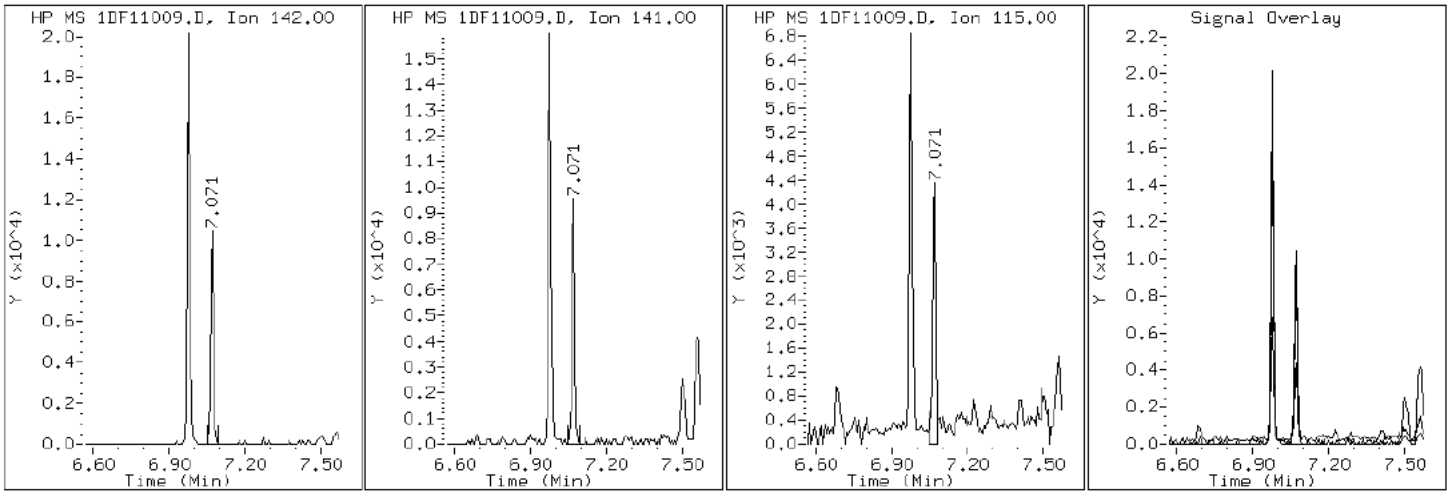
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

4 1-Methylnaphthalene



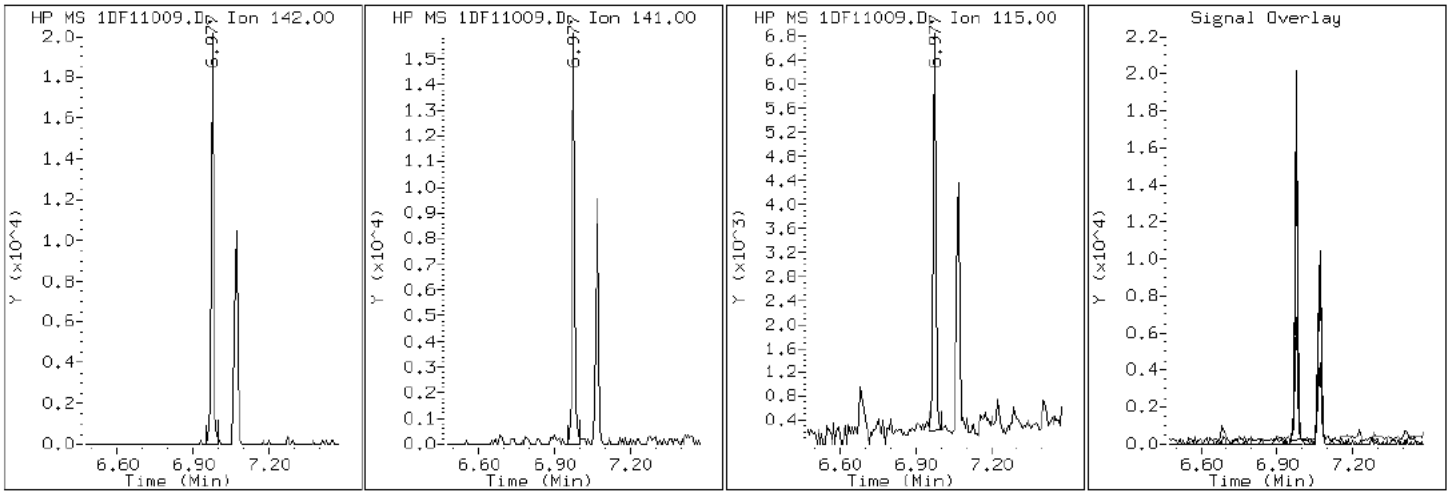
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

3 2-Methylnaphthalene



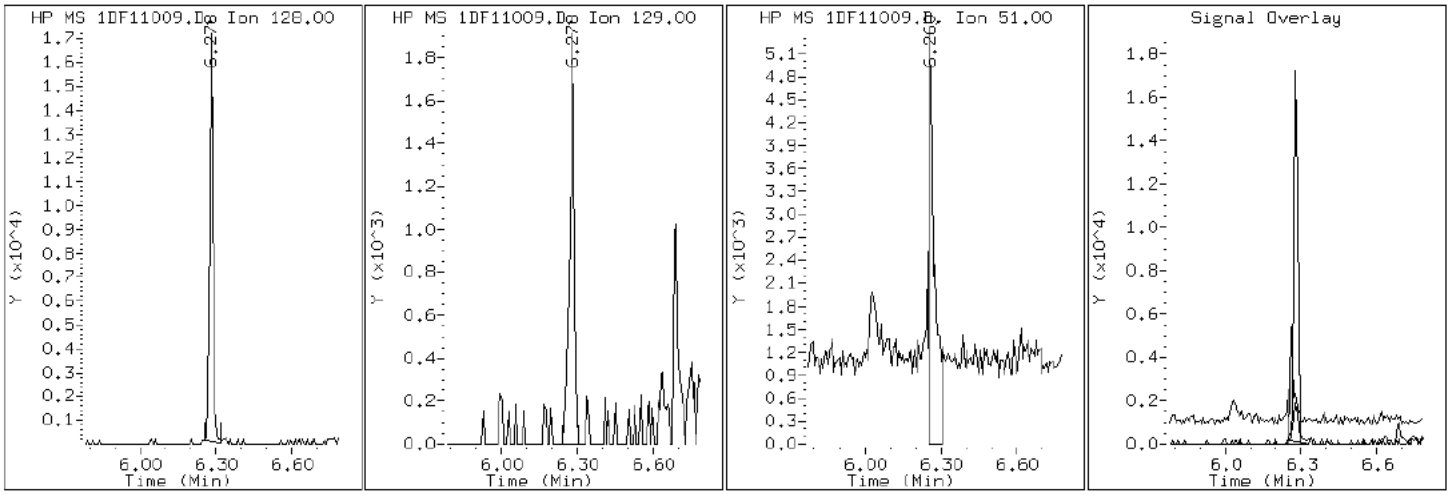
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

2 Naphthalene



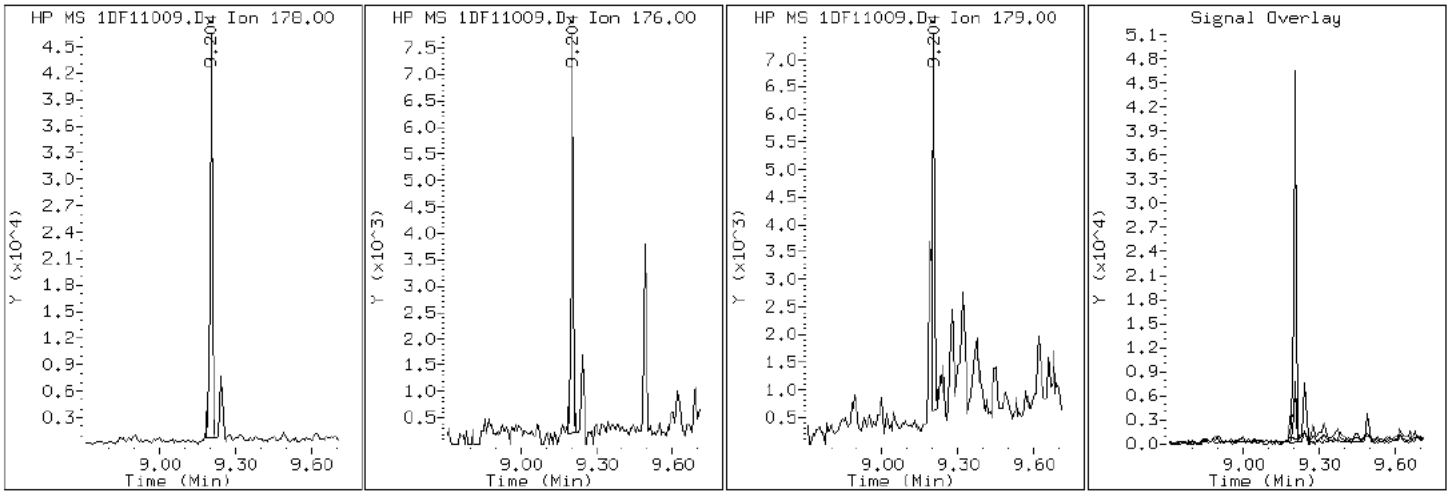
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

12 Phenanthrene



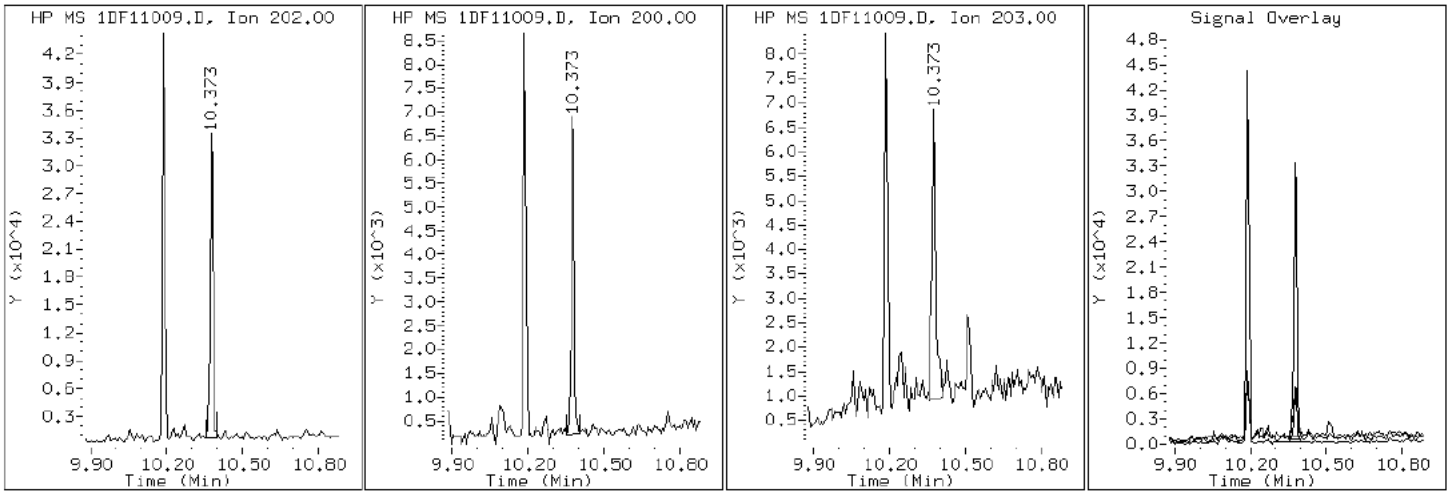
Data File: 1DF11009.D

Date: 11-JUN-2013 14:15

Client ID: CV1112A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-6-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11009.D
Inj. Date and Time: 11-JUN-2013 14:15
Instrument ID: BSMSD.i
Client ID: CV1112A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

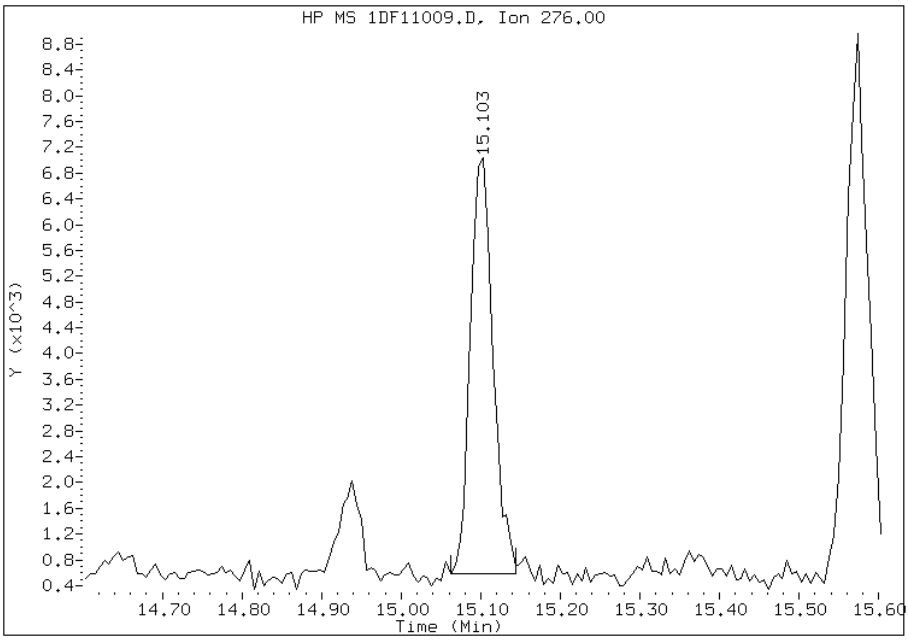
Processing Integration Results

RT: 15.10

Response: 12630

Amount: 0

Conc: 97



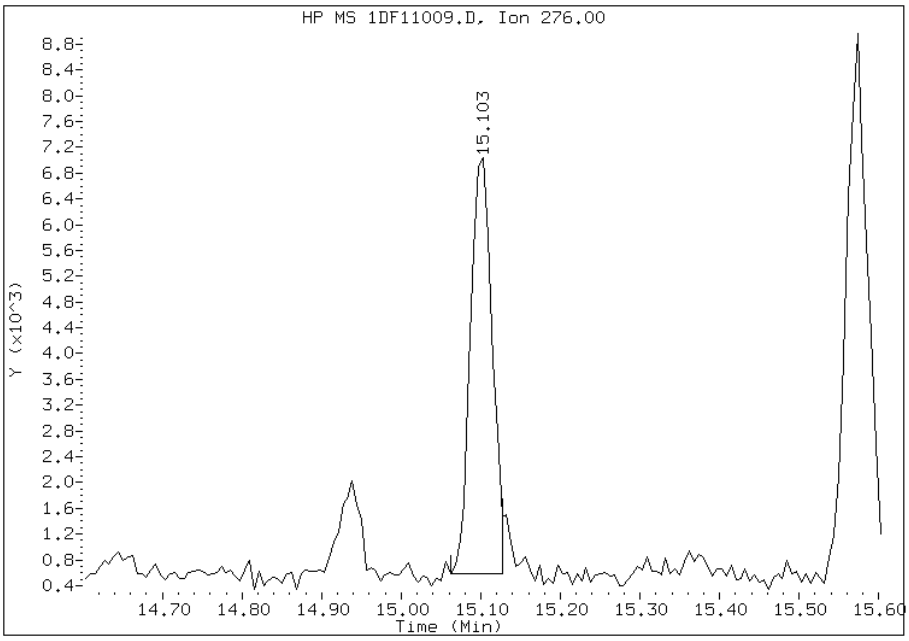
Manual Integration Results

RT: 15.10

Response: 12099

Amount: 0

Conc: 95



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1167A-CS | Lab Sample ID: 680-90855-7

Matrix: Solid | Lab File ID: 1DF11010.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 10:59

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.09(g) | Date Analyzed: 06/11/2013 14:38

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

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

% Moisture: 15.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	95
208-96-8	Acenaphthylene	40	J	190	24
120-12-7	Anthracene	81		40	20
56-55-3	Benzo[a]anthracene	290		38	18
50-32-8	Benzo[a]pyrene	290		49	25
205-99-2	Benzo[b]fluoranthene	460		58	29
191-24-2	Benzo[g,h,i]perylene	230		95	21
207-08-9	Benzo[k]fluoranthene	150		38	17
218-01-9	Chrysene	320		43	21
53-70-3	Dibenz(a,h)anthracene	84	J	95	19
206-44-0	Fluoranthene	440		95	19
86-73-7	Fluorene	28	J	95	19
193-39-5	Indeno[1,2,3-cd]pyrene	240		95	34
90-12-0	1-Methylnaphthalene	130	J	190	21
91-57-6	2-Methylnaphthalene	150	J	190	34
91-20-3	Naphthalene	110	J	190	21
85-01-8	Phenanthrene	350		38	18
129-00-0	Pyrene	370		95	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11010.D
Lab Smp Id: 680-90855-A-7-A Client Smp ID: CV1167A-CS
Inj Date : 11-JUN-2013 14:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-7-a
Misc Info : 680-90855-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 10
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	15.090	Weight Extracted
M	15.946	% 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	6.260	6.260	(1.000)	3632626	40.0000	
*	7 Acenaphthene-d10	164	7.929	7.929	(1.000)	2145849	40.0000	
*	11 Phenanthrene-d10	188	9.192	9.192	(1.000)	3492958	40.0000	
$	15 o-Terphenyl	230	9.492	9.497	(1.033)	54275	1.06062	330
*	19 Chrysene-d12	240	11.560	11.560	(1.000)	3236271	40.0000	
*	24 Perylene-d12	264	13.470	13.469	(1.000)	2875773	40.0000	
	2 Naphthalene	128	6.278	6.284	(1.003)	30887	0.34479	110
	3 2-Methylnaphthalene	142	6.977	6.977	(1.114)	27813	0.48762	150
	4 1-Methylnaphthalene	142	7.071	7.071	(1.129)	24667	0.42007	130
	6 Acenaphthylene	152	7.800	7.799	(0.984)	11312	0.12714	40
	10 Fluorene	166	8.393	8.399	(1.059)	5639	0.08830	28
	12 Phenanthrene	178	9.204	9.210	(1.001)	105064	1.11060	350
	13 Anthracene	178	9.245	9.251	(1.006)	23637	0.25751	81
	16 Fluoranthene	202	10.185	10.191	(1.108)	135883	1.40404	440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.379	10.379	(0.898)	111304	1.17471	370
18 Benzo(a)anthracene	228	11.537	11.536	(0.998)	88225	0.91857	290
20 Chrysene	228	11.578	11.583	(1.002)	87022	1.00618	320
21 Benzo(b)fluoranthene	252	12.894	12.899	(0.957)	105842	1.46912	460
22 Benzo(k)fluoranthene	252	12.929	12.940	(0.960)	35112	0.46540	150
23 Benzo(a)pyrene	252	13.358	13.369	(0.992)	59506	0.93278	290
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.120	(1.121)	45503	0.75677	240(M)
26 Dibenzo(a,h)anthracene	278	15.132	15.156	(1.123)	13354	0.26626	84
27 Benzo(g,h,i)perylene	276	15.573	15.602	(1.156)	48356	0.74054	230(H)

QC Flag Legend

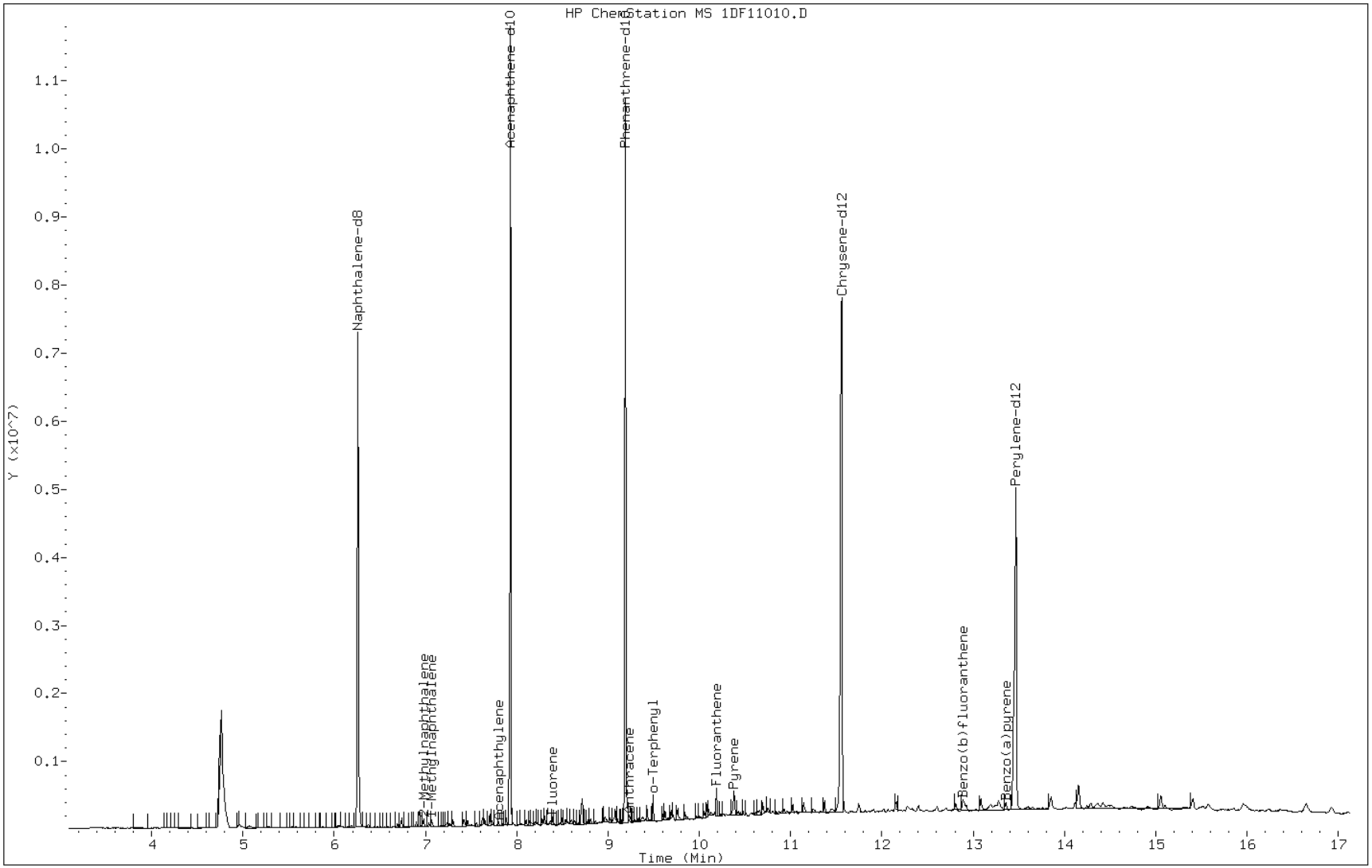
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC



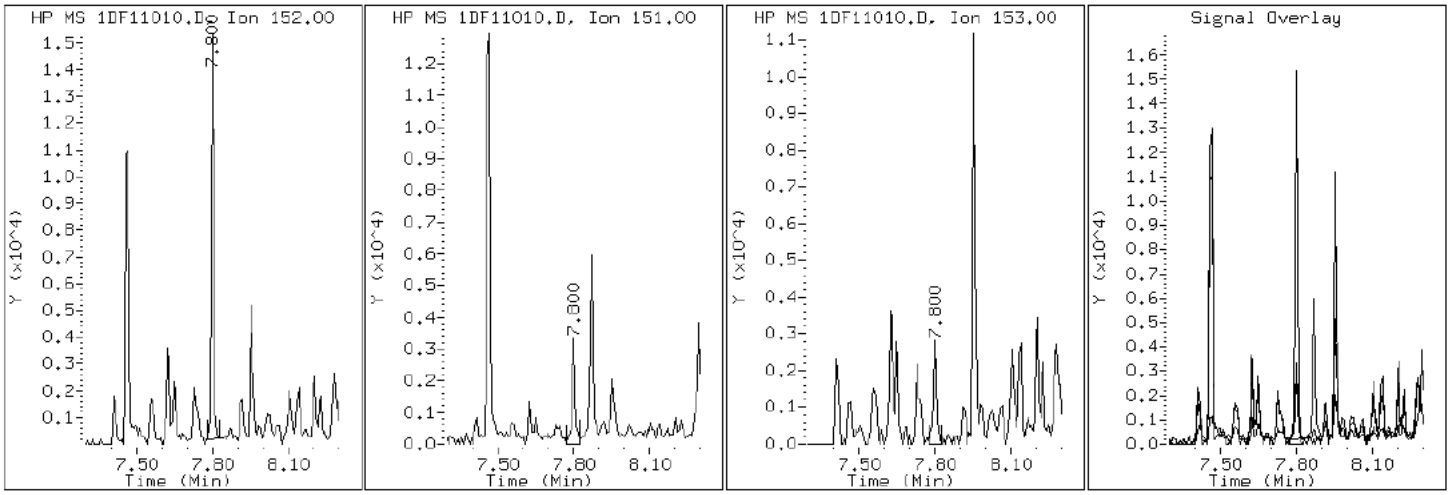
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

6 Acenaphthylene



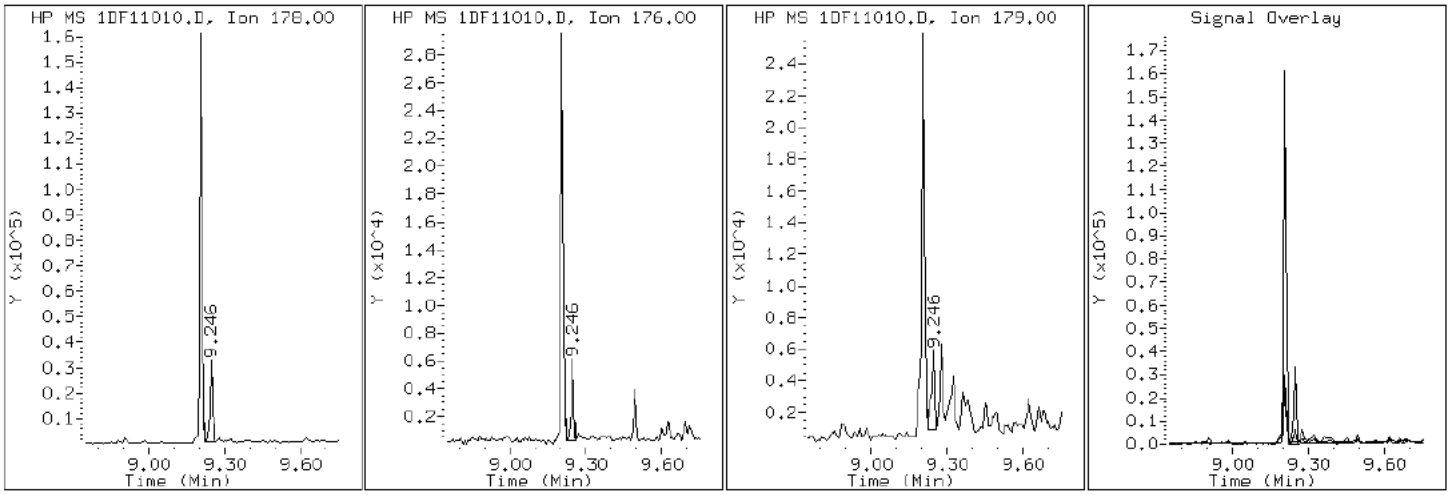
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

13 Anthracene



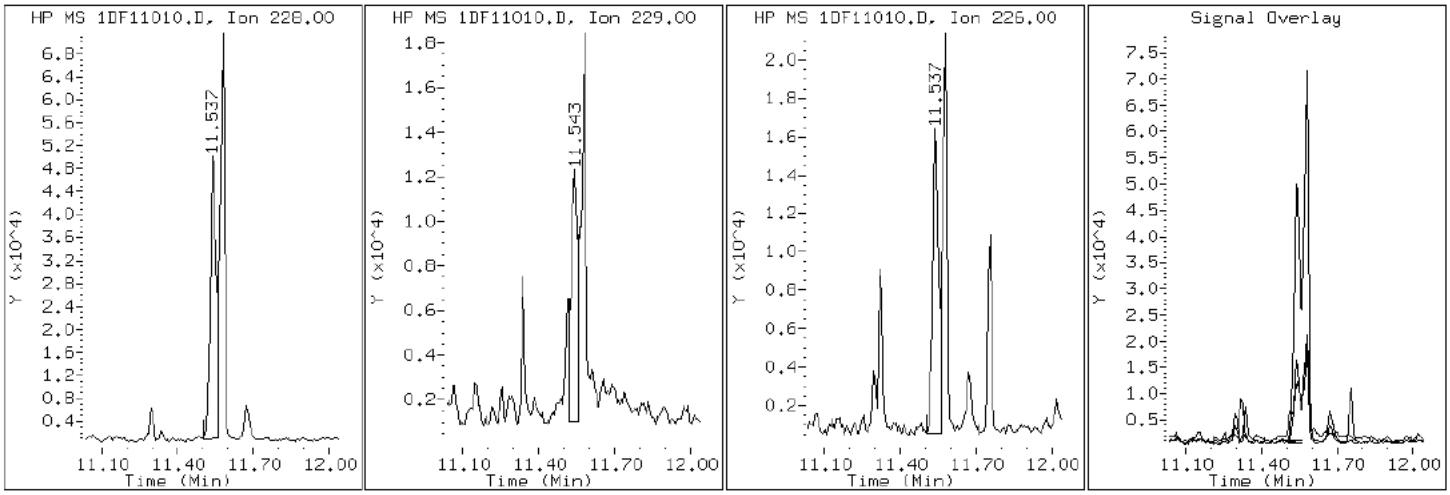
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

18 Benzo(a)anthracene



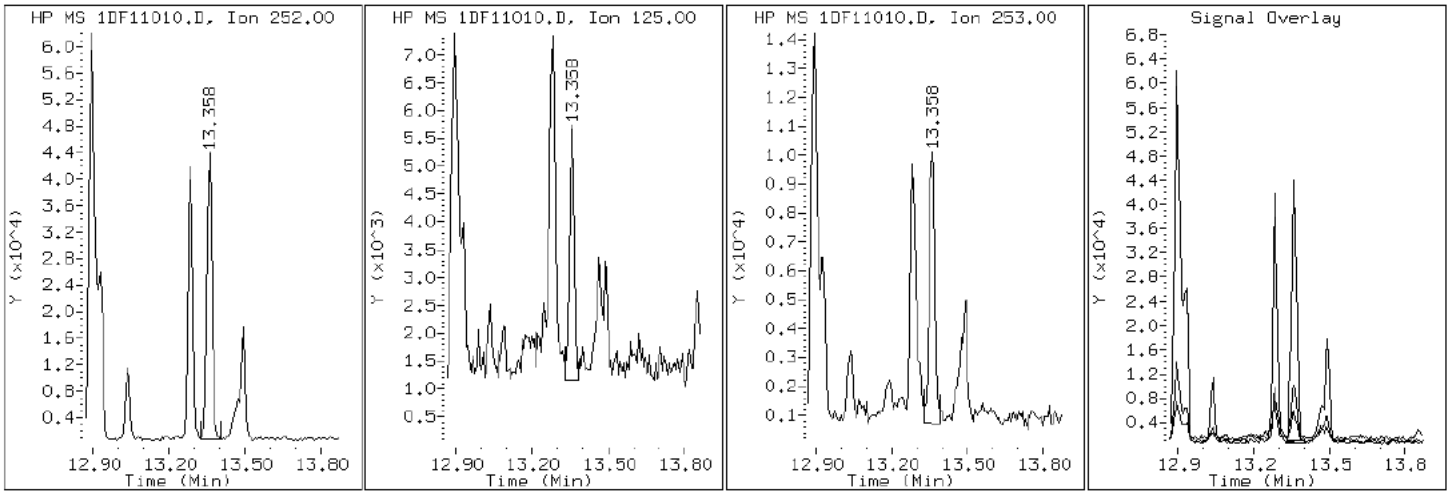
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

23 Benzo(a)pyrene



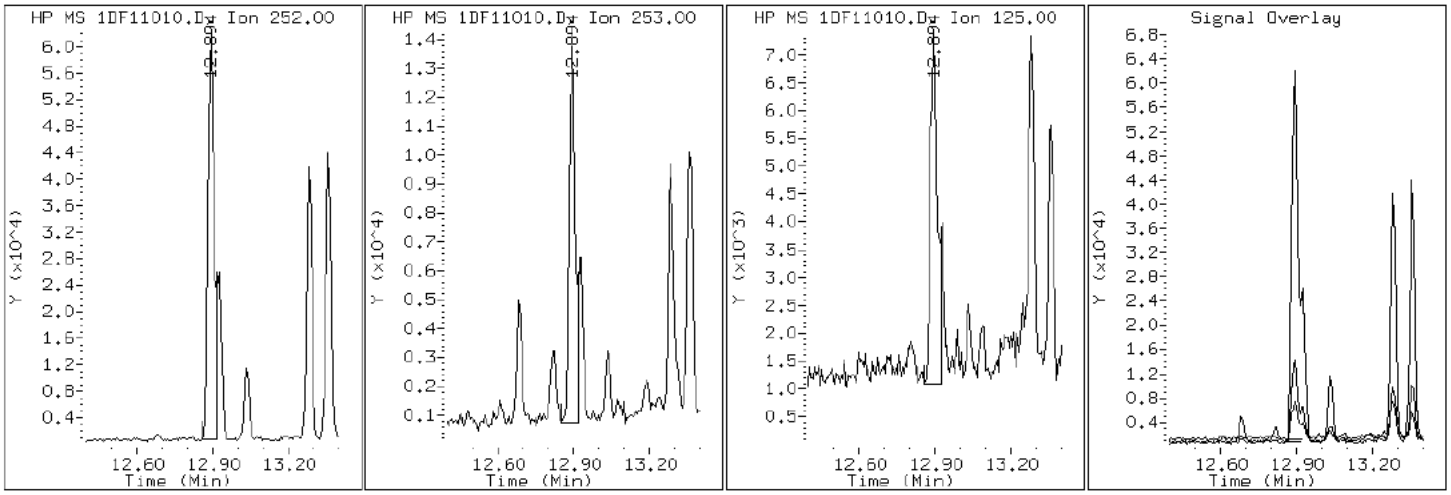
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

21 Benzo(b)fluoranthene



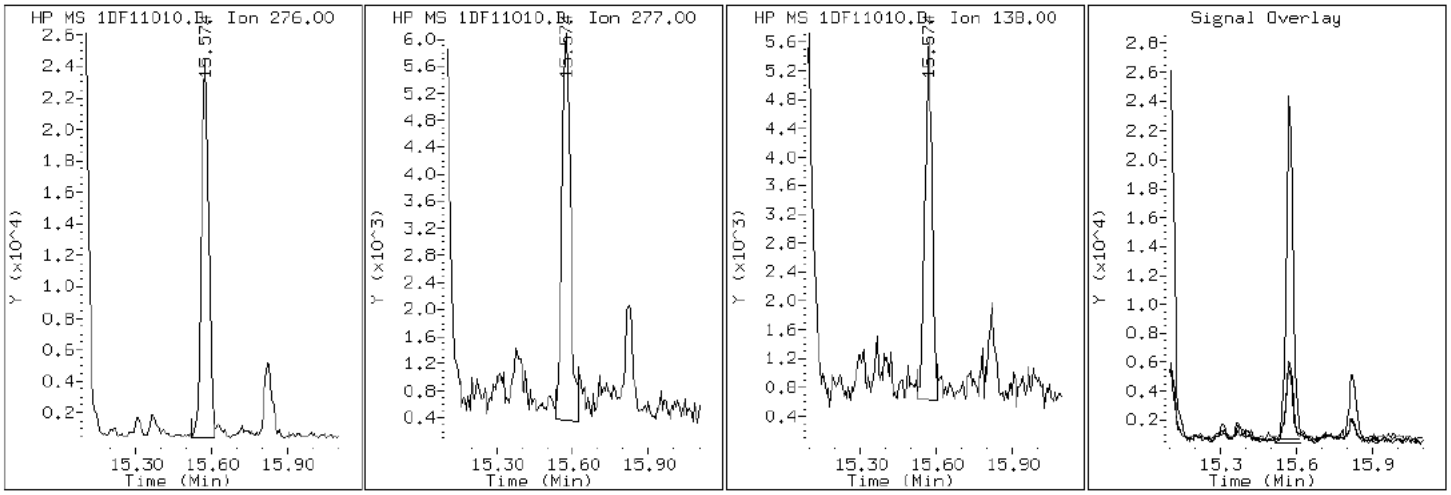
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

27 Benzo(g,h,i)perylene



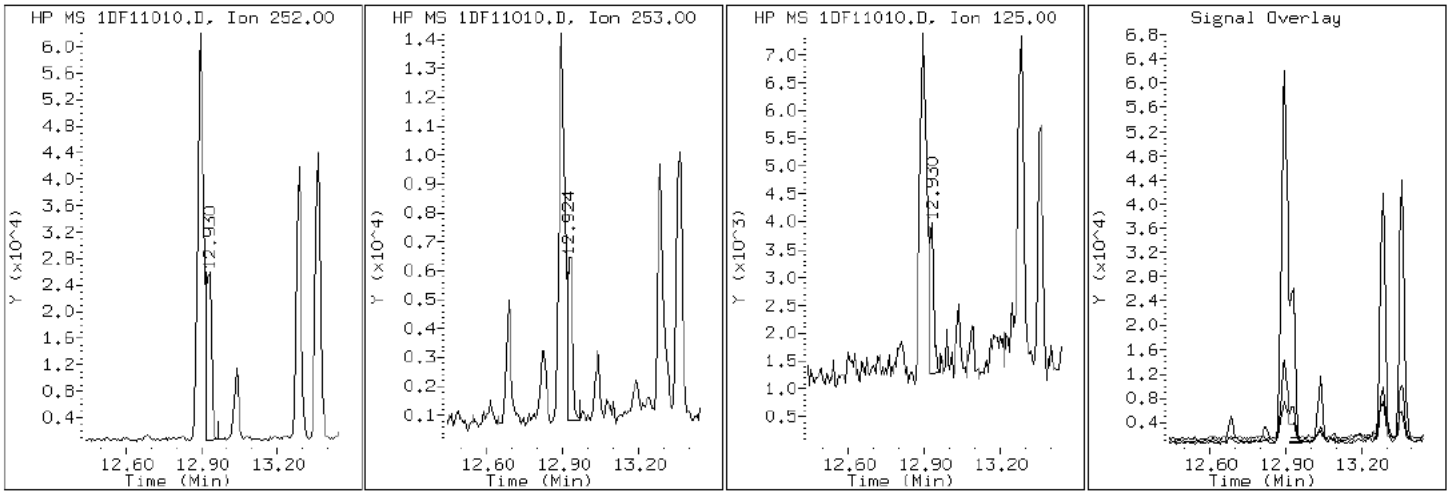
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

22 Benzo(k)fluoranthene



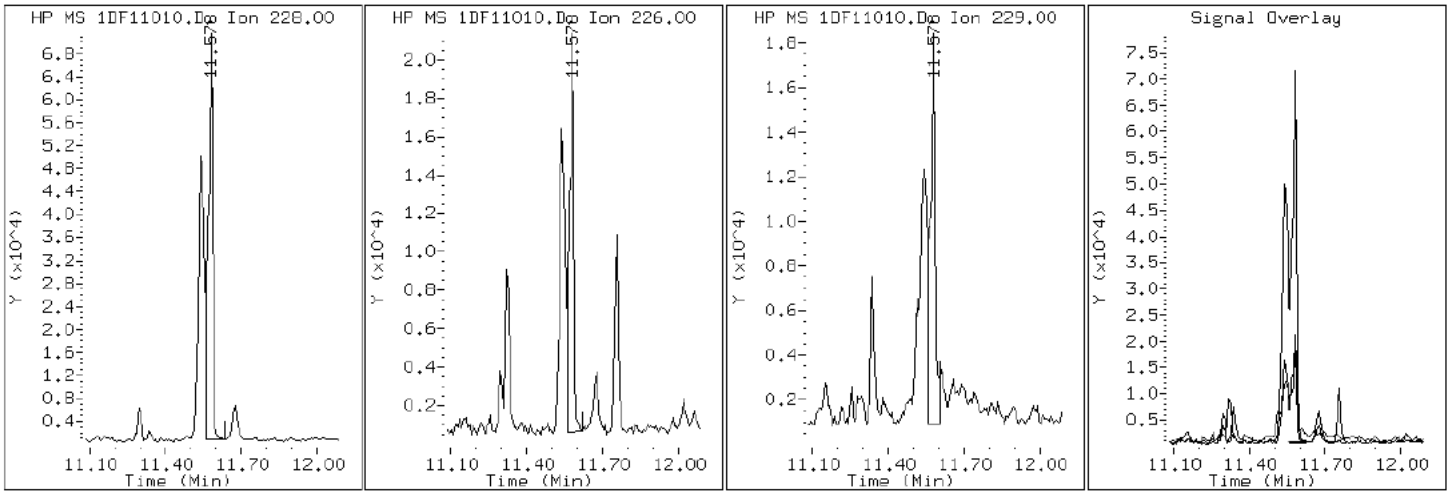
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

20 Chrysene



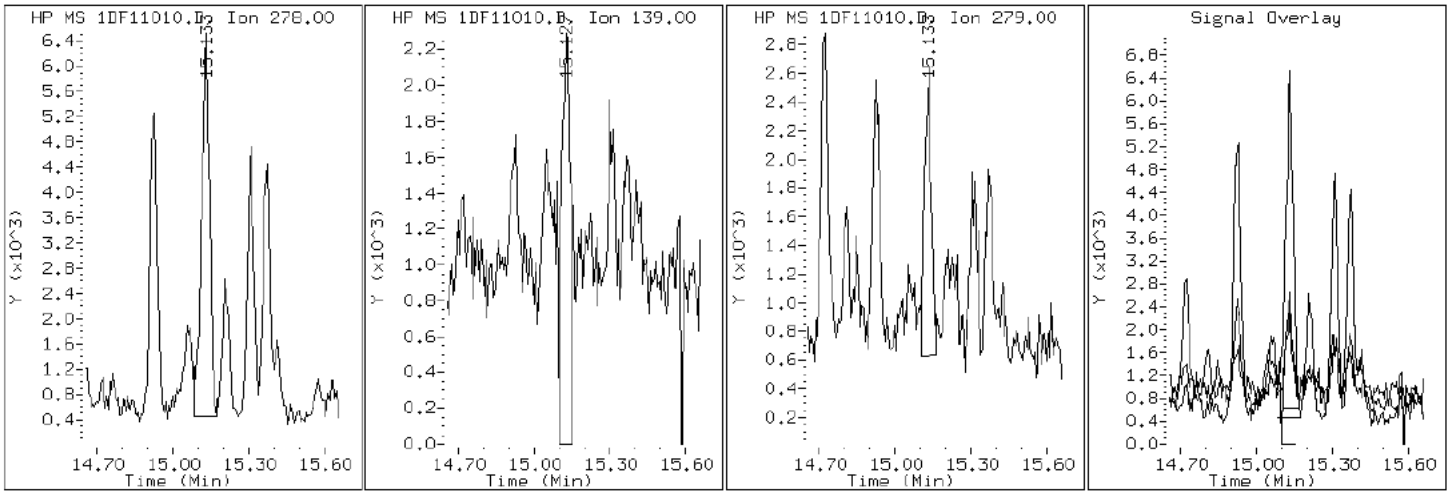
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

26 Dibenzo(a,h)anthracene



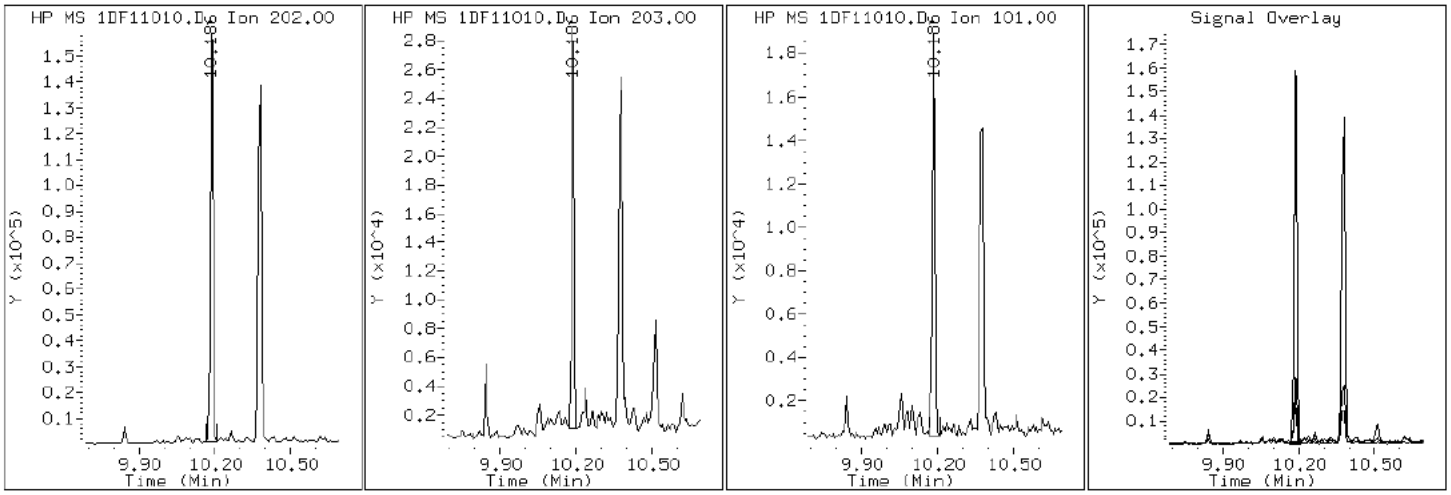
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

16 Fluoranthene



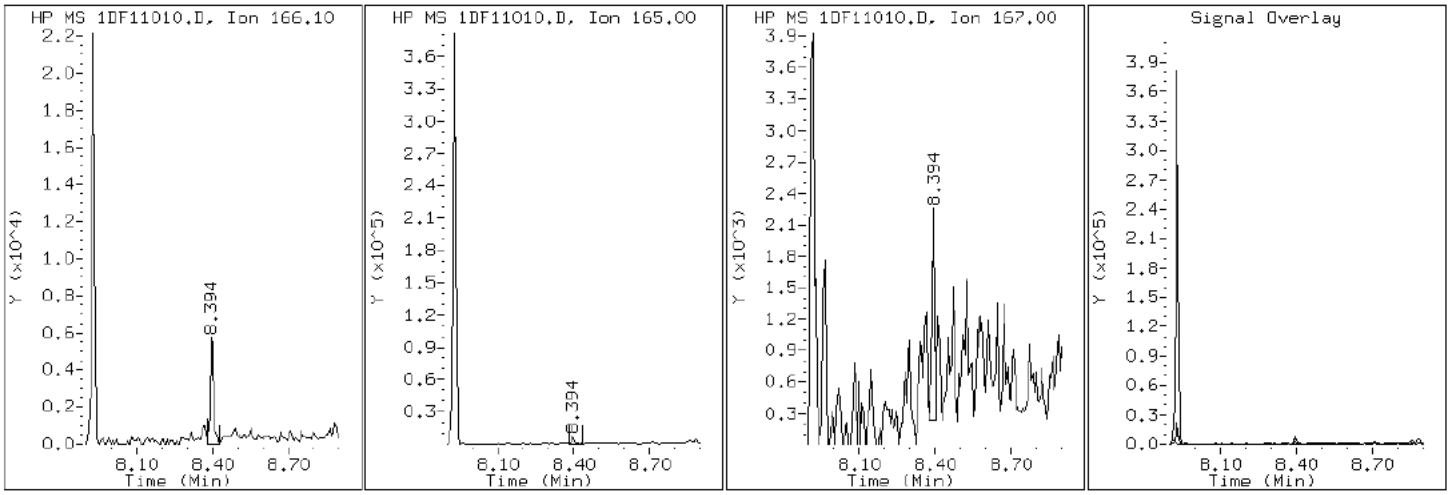
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

10 Fluorene



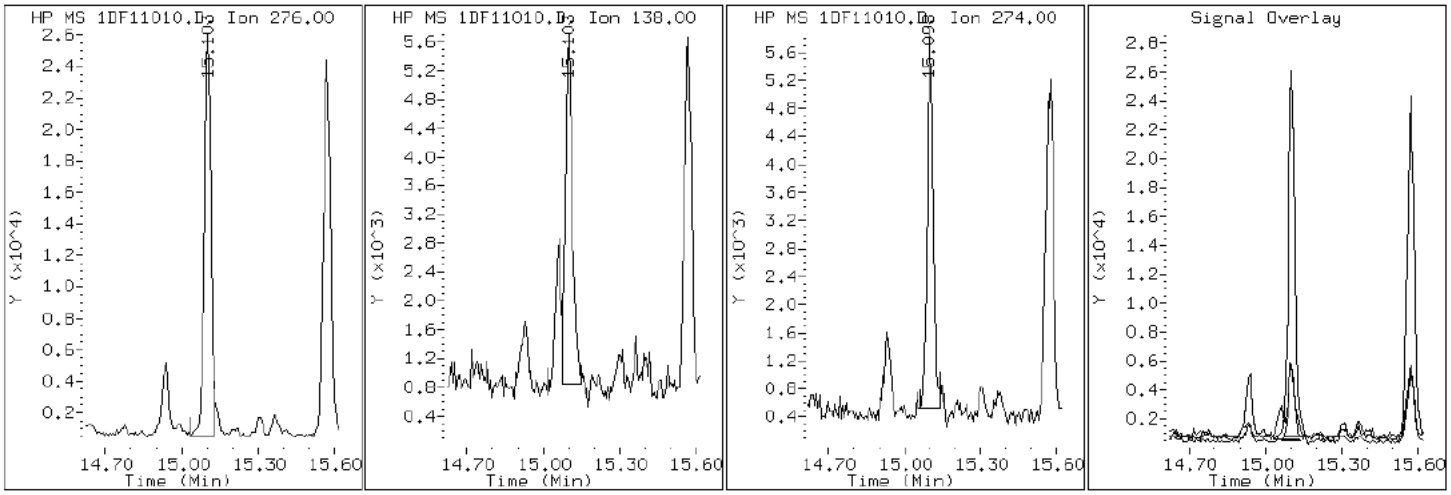
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

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



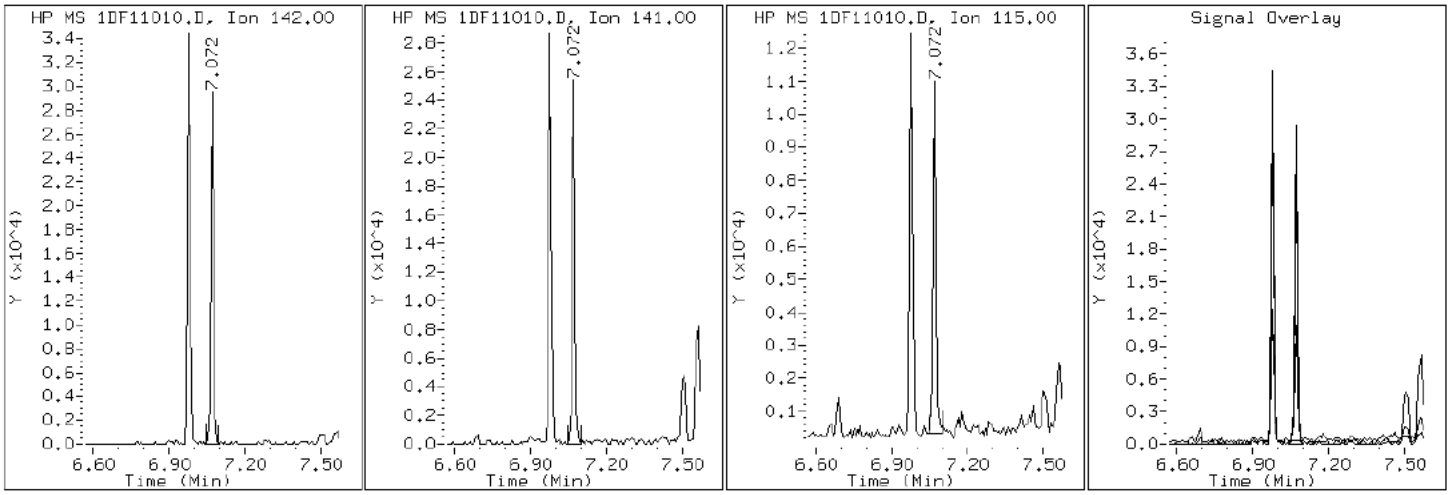
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

4 1-Methylnaphthalene



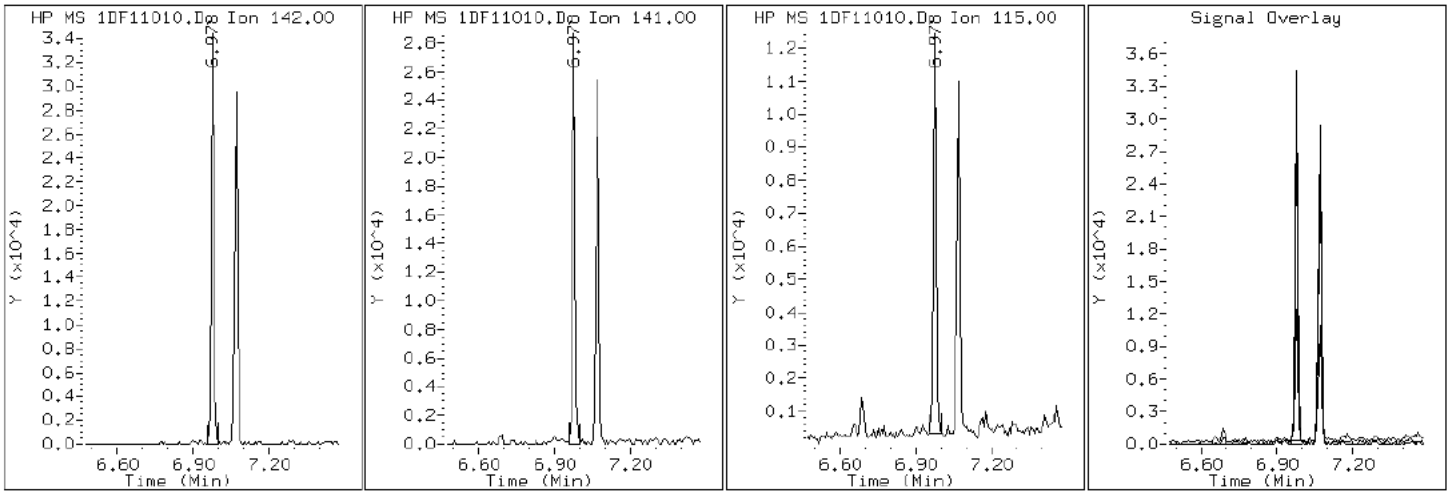
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

3 2-Methylnaphthalene



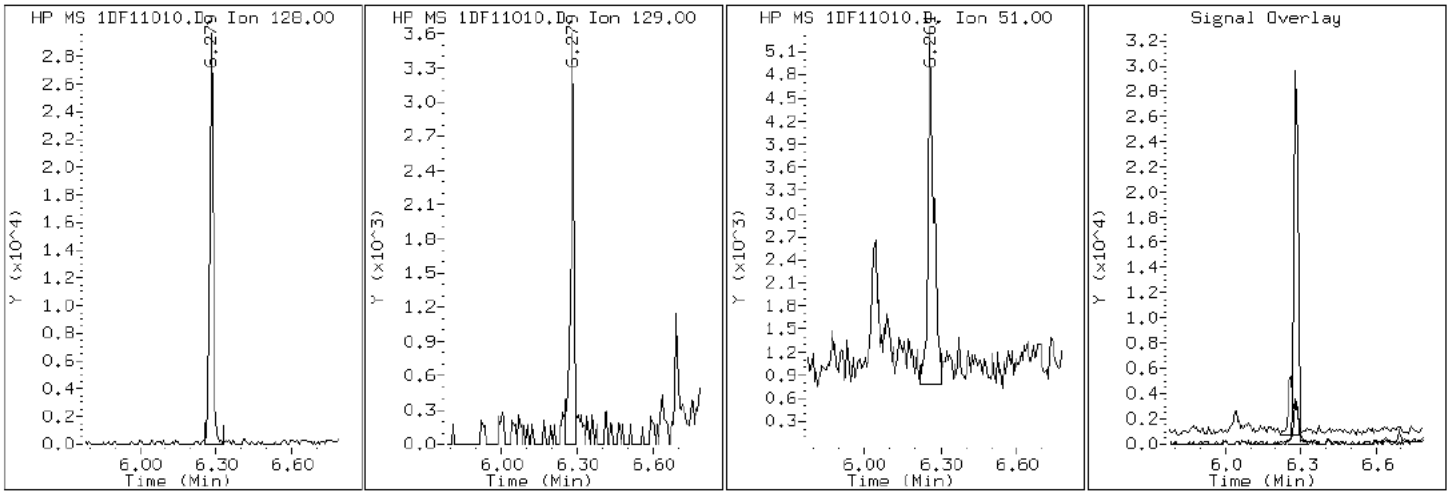
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

2 Naphthalene



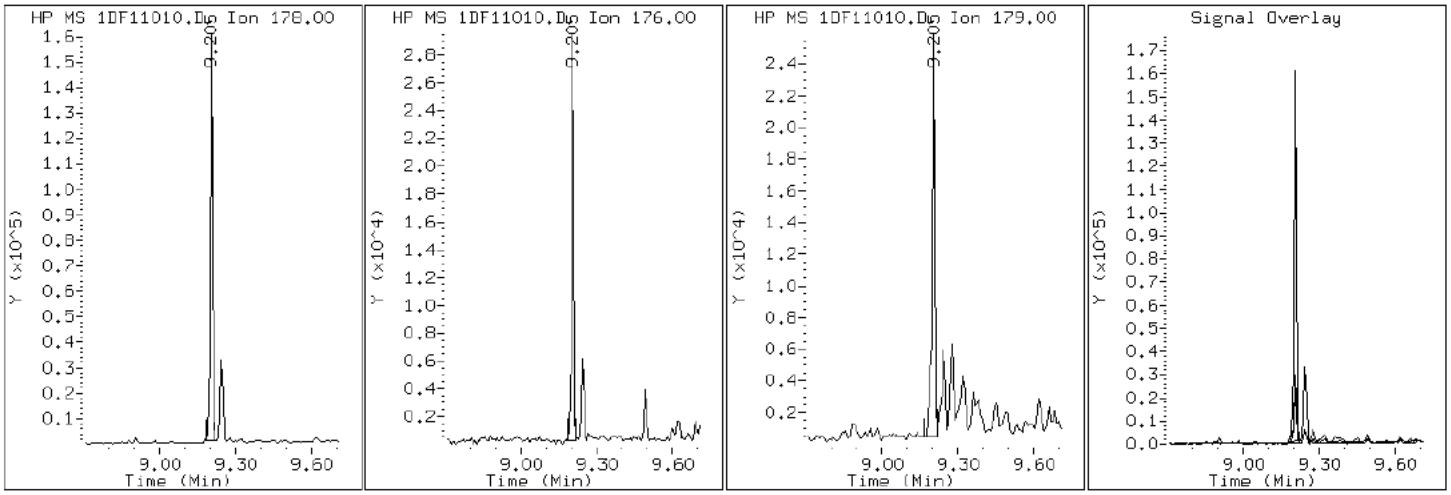
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

12 Phenanthrene



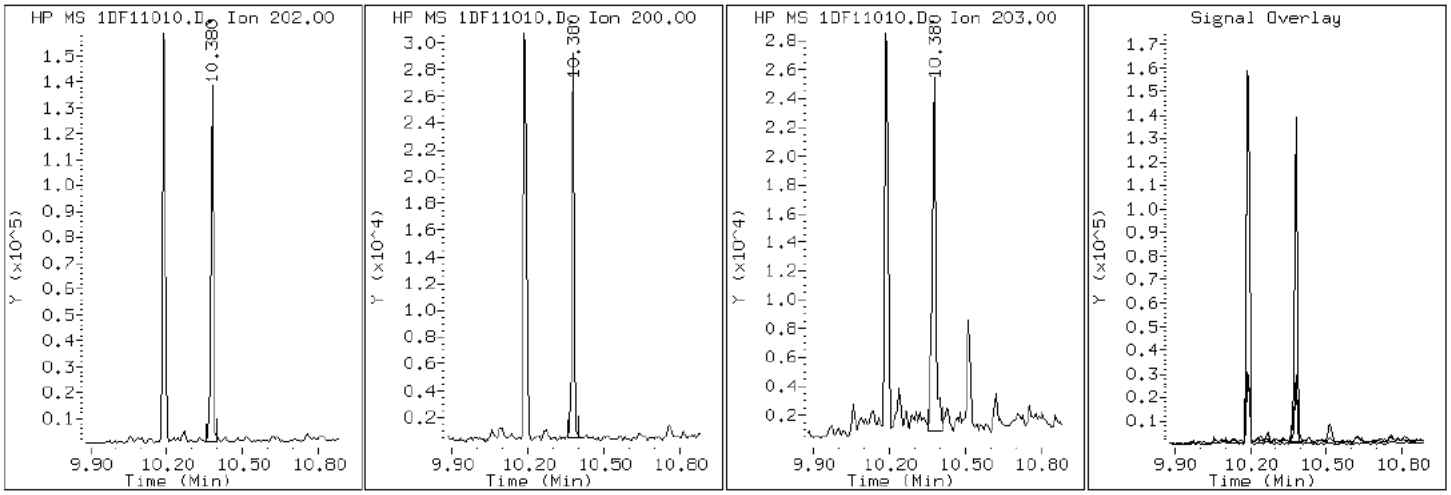
Data File: 1DF11010.D

Date: 11-JUN-2013 14:38

Client ID: CV1167A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-7-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11010.D
Inj. Date and Time: 11-JUN-2013 14:38
Instrument ID: BSMSD.i
Client ID: CV1167A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

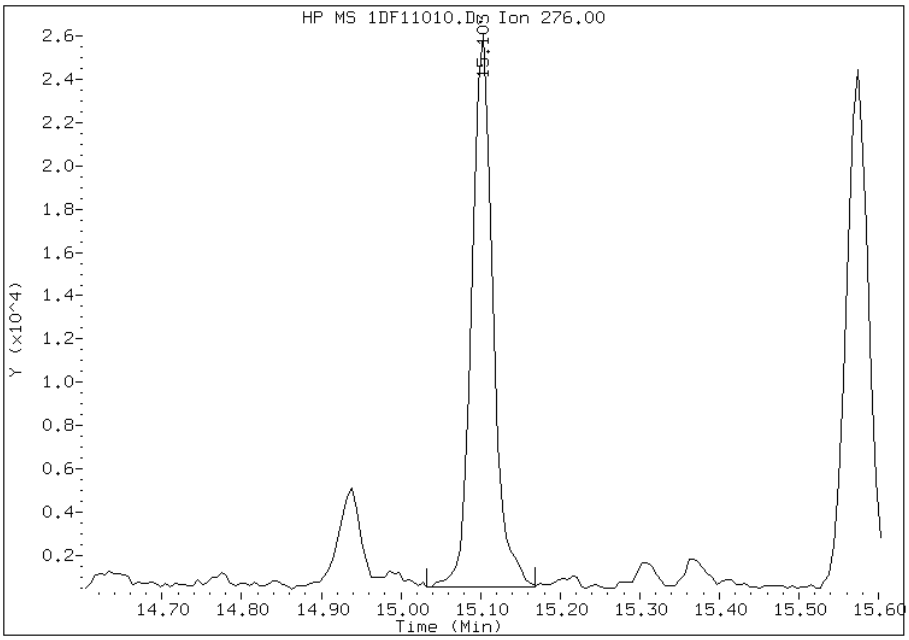
Processing Integration Results

RT: 15.10

Response: 47056

Amount: 1

Conc: 245



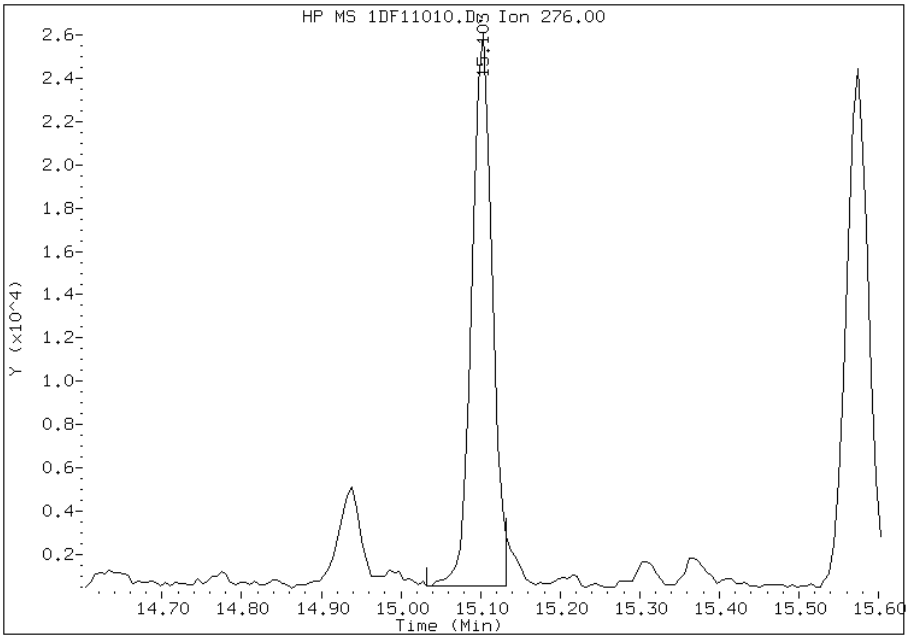
Manual Integration Results

RT: 15.10

Response: 45503

Amount: 1

Conc: 239



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1167B-CS | Lab Sample ID: 680-90855-8

Matrix: Solid | Lab File ID: 1DF11011.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 11:03

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.03(g) | Date Analyzed: 06/11/2013 15:00

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

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

% Moisture: 23.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	70	J	210	26
120-12-7	Anthracene	140		44	22
56-55-3	Benzo[a]anthracene	450		42	20
50-32-8	Benzo[a]pyrene	480		54	27
205-99-2	Benzo[b]fluoranthene	820		64	32
191-24-2	Benzo[g,h,i]perylene	360		100	23
207-08-9	Benzo[k]fluoranthene	280		42	19
218-01-9	Chrysene	650		47	24
53-70-3	Dibenz(a,h)anthracene	130		100	21
206-44-0	Fluoranthene	690		100	21
86-73-7	Fluorene	34	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	360		100	37
90-12-0	1-Methylnaphthalene	300		210	23
91-57-6	2-Methylnaphthalene	340		210	37
91-20-3	Naphthalene	230		210	23
85-01-8	Phenanthrene	600		42	20
129-00-0	Pyrene	610		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11011.D
Lab Smp Id: 680-90855-A-8-A Client Smp ID: CV1167B-CS
Inj Date : 11-JUN-2013 15:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-8-a
Misc Info : 680-90855-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 11
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	15.030	Weight Extracted
M	23.740	% 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	6.260	6.260	(1.000)	3364318	40.0000	
* 7 Acenaphthene-d10	164	7.929	7.929	(1.000)	1975775	40.0000	
* 11 Phenanthrene-d10	188	9.192	9.192	(1.000)	3178783	40.0000	
$ 15 o-Terphenyl	230	9.492	9.497	(1.033)	53643	1.15188	400
* 19 Chrysene-d12	240	11.554	11.560	(1.000)	2991445	40.0000	
* 24 Perylene-d12	264	13.470	13.469	(1.000)	2713887	40.0000	
2 Naphthalene	128	6.278	6.284	(1.003)	54755	0.65997	230
3 2-Methylnaphthalene	142	6.977	6.977	(1.114)	50729	0.96031	340
4 1-Methylnaphthalene	142	7.071	7.071	(1.129)	47197	0.86785	300
6 Acenaphthylene	152	7.800	7.799	(0.984)	16380	0.19995	70
8 Acenaphthene	154	7.953	7.958	(1.003)	8100	0.15587	54
10 Fluorene	166	8.393	8.399	(1.059)	5693	0.09682	34(Q)
12 Phenanthrene	178	9.204	9.210	(1.001)	147533	1.71367	600
13 Anthracene	178	9.245	9.251	(1.006)	32435	0.38829	140

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.191	10.191	(1.109)	173616	1.97123	690
17 Pyrene	202	10.379	10.379	(0.898)	154326	1.76207	610
18 Benzo(a)anthracene	228	11.537	11.536	(0.998)	113474	1.27815	450
20 Chrysene	228	11.578	11.583	(1.002)	149861	1.87457	650
21 Benzo(b)fluoranthene	252	12.900	12.899	(0.958)	160303	2.35778	820
22 Benzo(k)fluoranthene	252	12.929	12.940	(0.960)	57952	0.81396	280
23 Benzo(a)pyrene	252	13.364	13.369	(0.992)	85371	1.36682	480
25 Indeno(1,2,3-cd)pyrene	276	15.109	15.120	(1.122)	61725	1.02305	360(M)
26 Dibenzo(a,h)anthracene	278	15.138	15.156	(1.124)	20336	0.38550	130
27 Benzo(g,h,i)perylene	276	15.579	15.602	(1.157)	64039	1.03921	360

QC Flag Legend

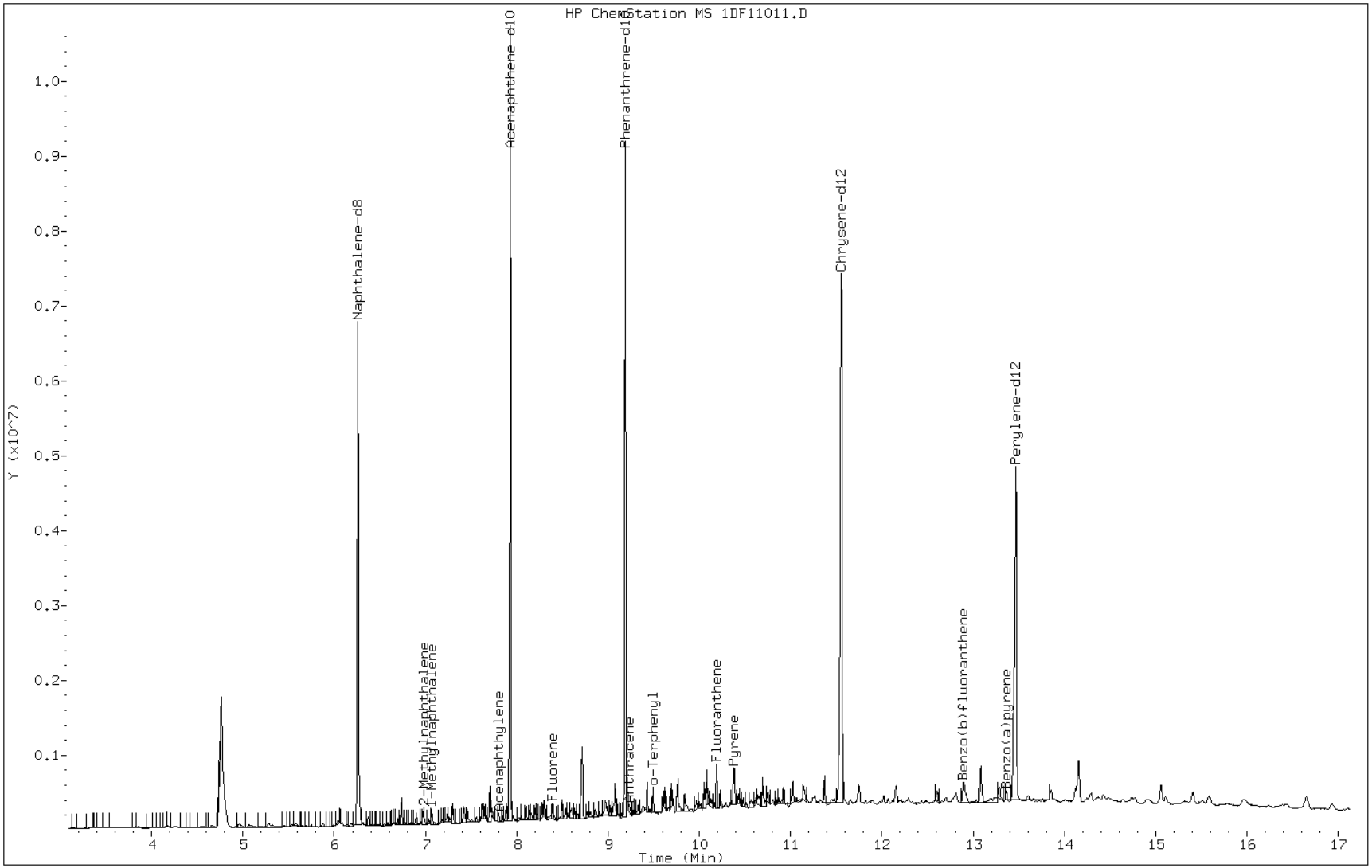
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC



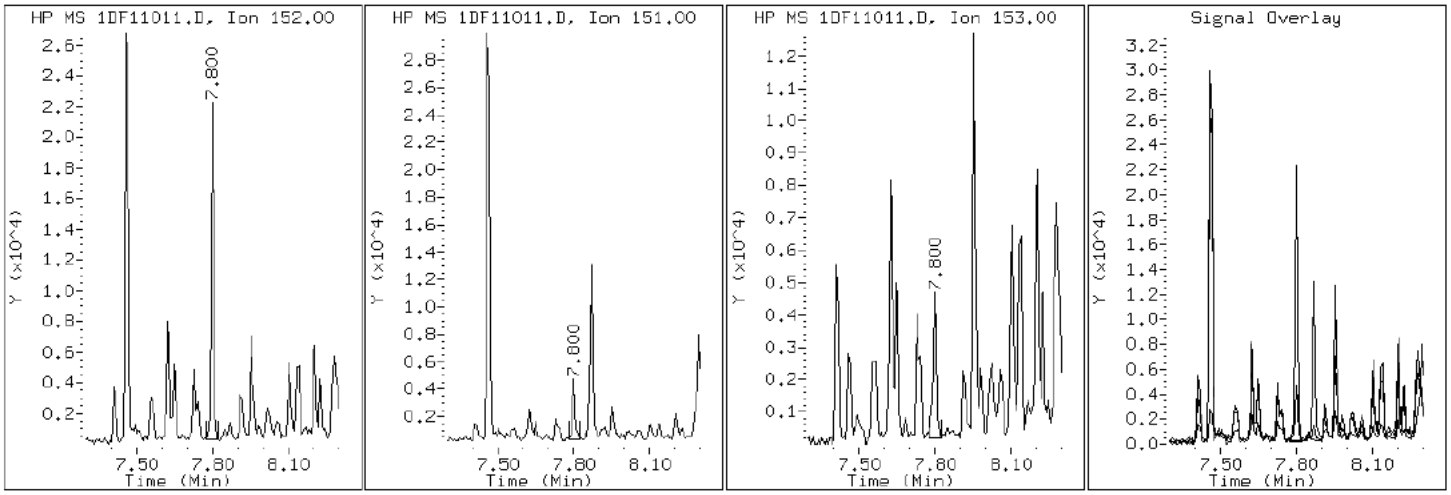
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

6 Acenaphthylene



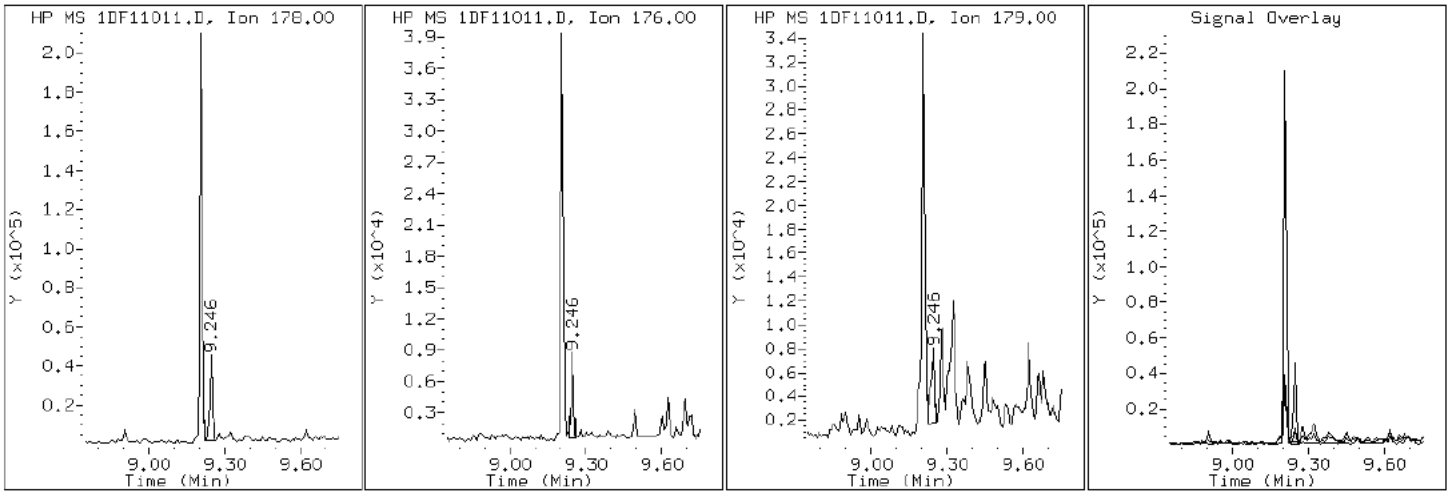
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

13 Anthracene



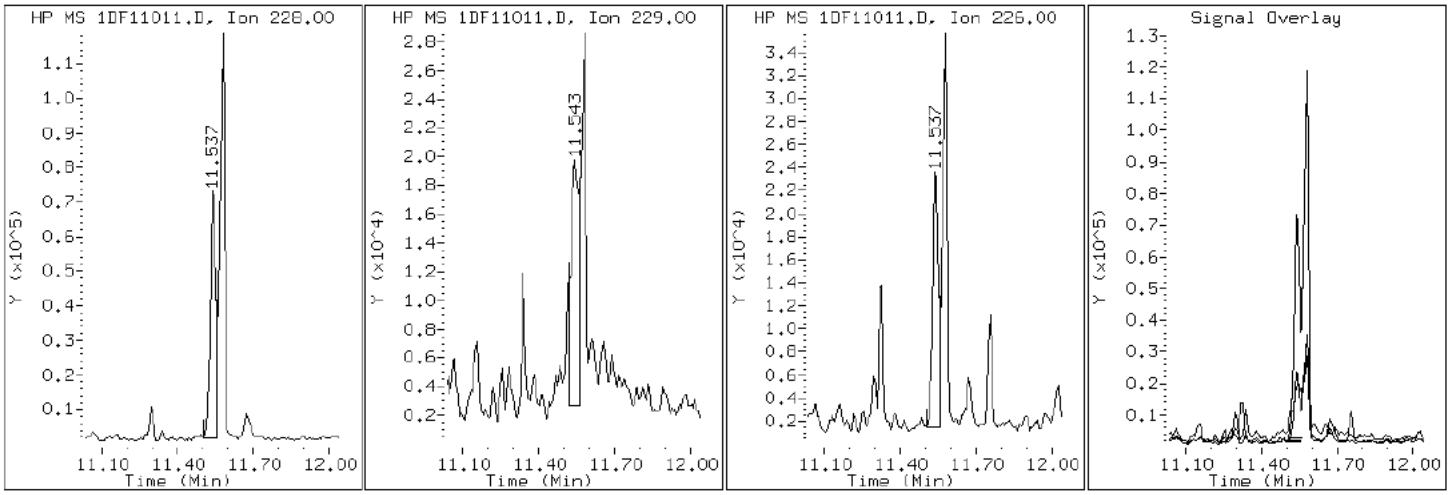
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

18 Benzo(a)anthracene



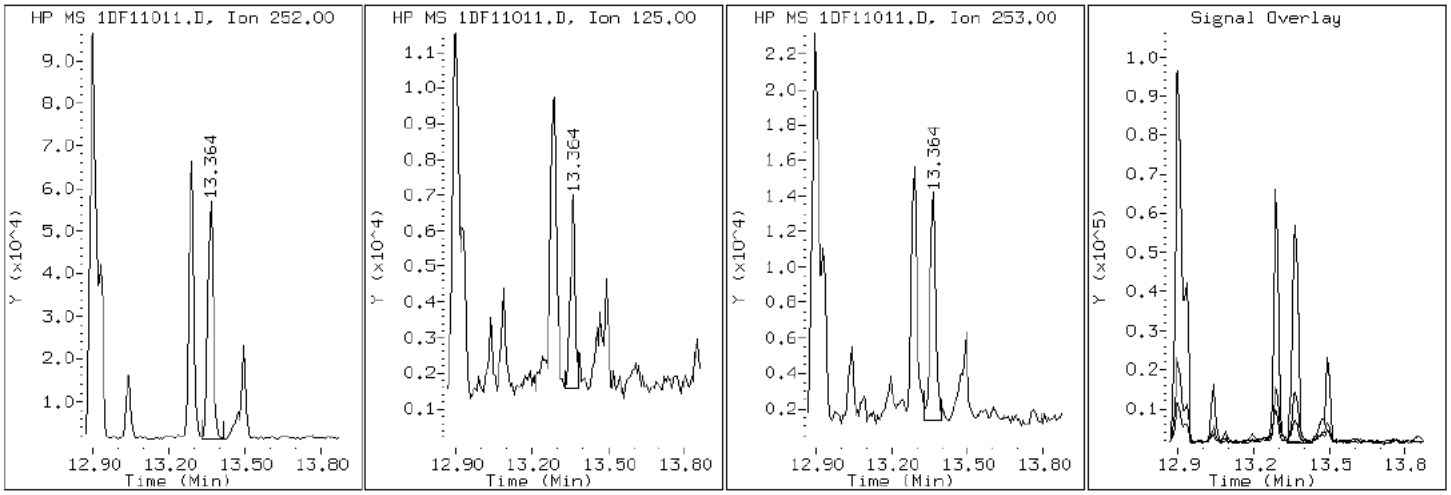
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

23 Benzo(a)pyrene



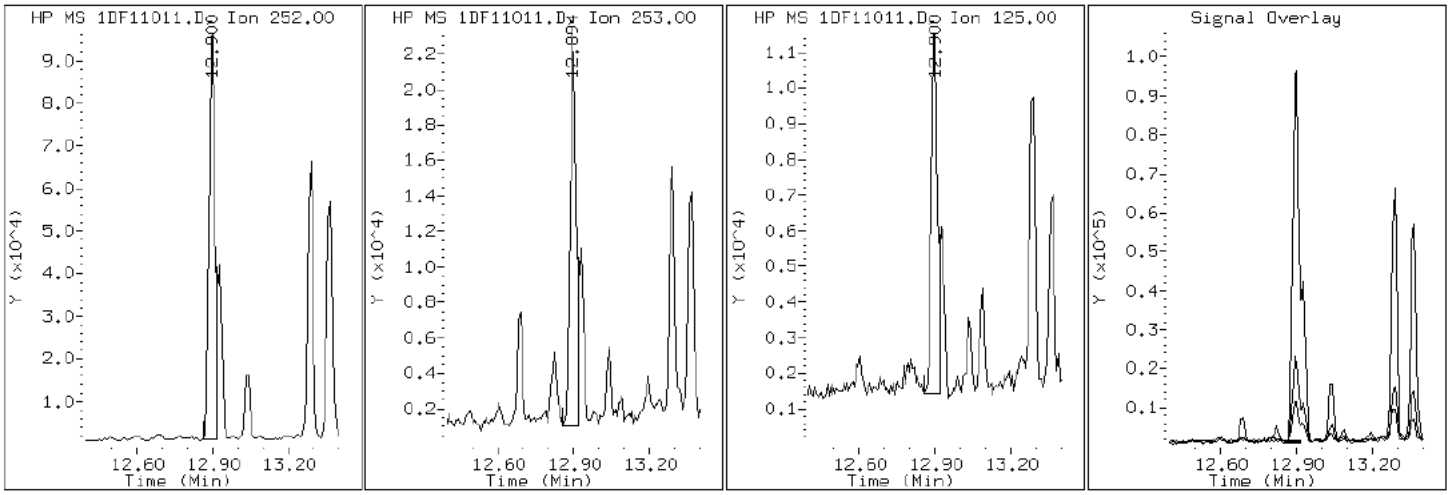
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

21 Benzo(b)fluoranthene



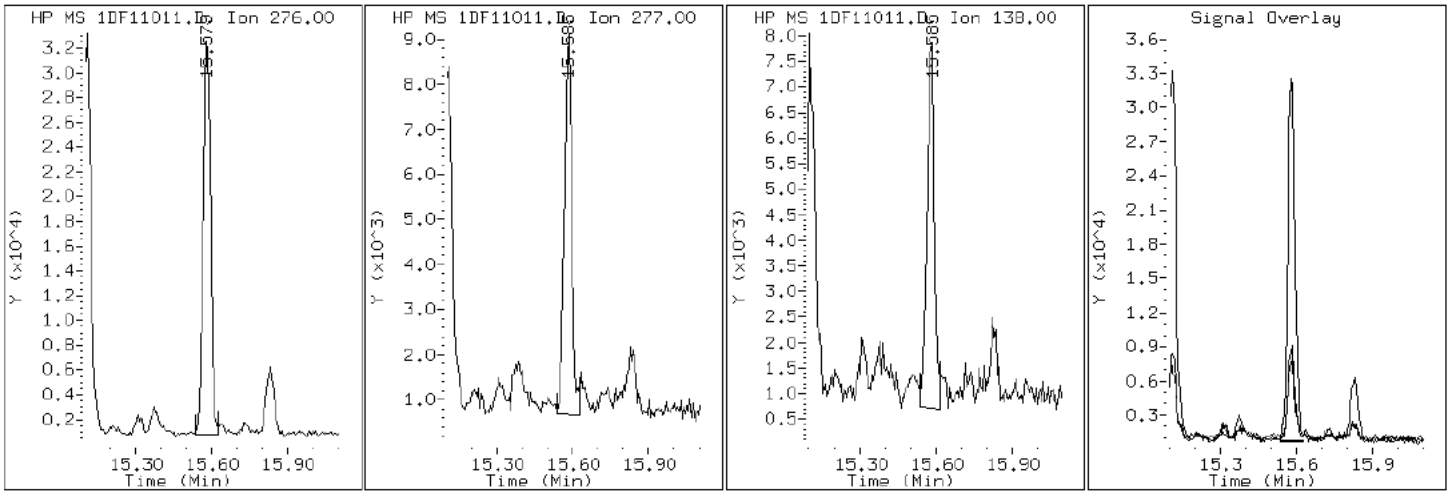
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

27 Benzo(g,h,i)perylene



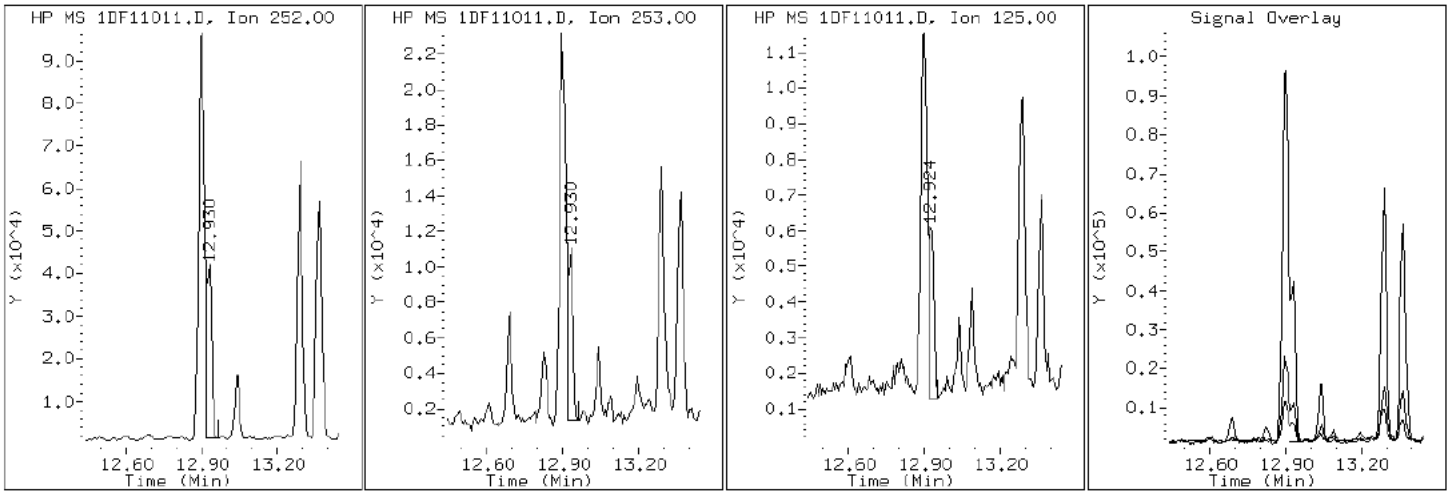
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

22 Benzo(k)fluoranthene



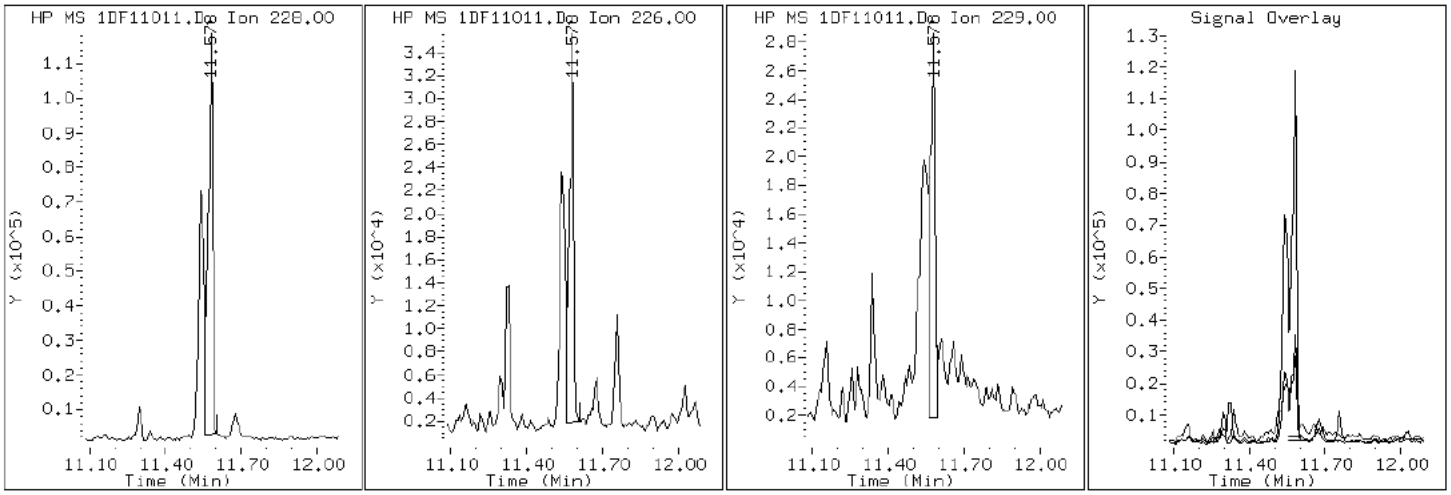
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

20 Chrysene



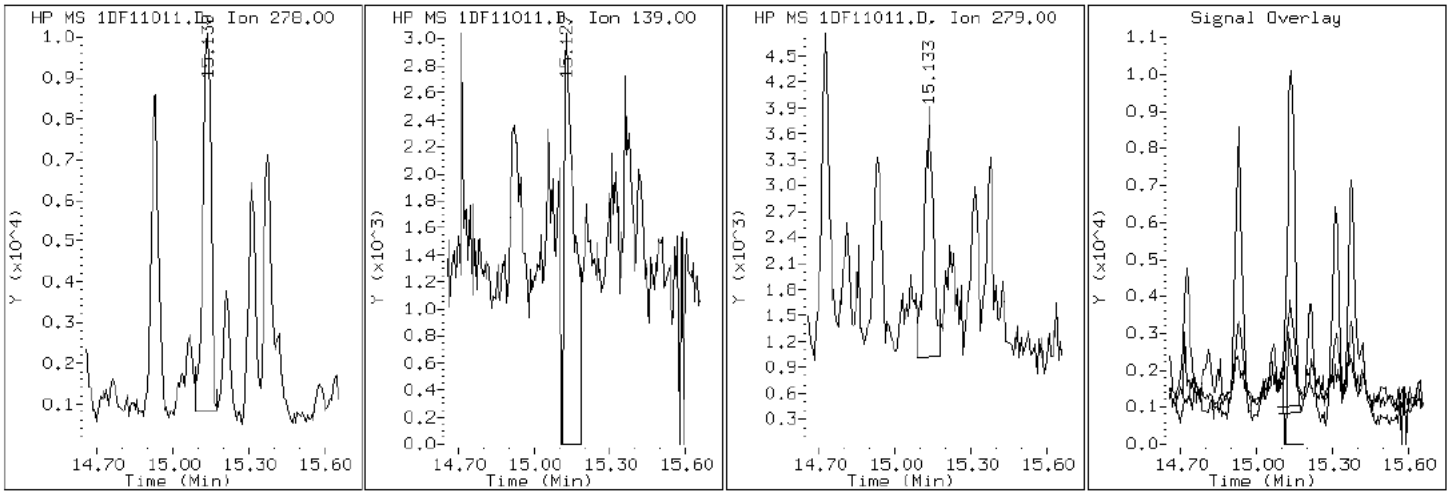
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

26 Dibenzo(a,h)anthracene



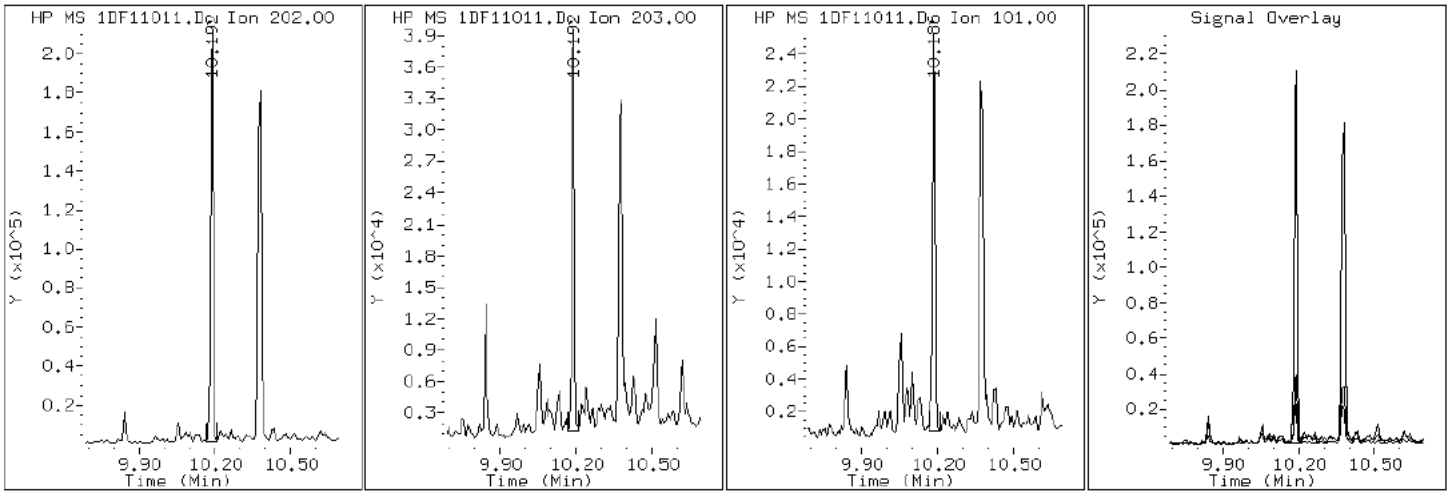
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

16 Fluoranthene



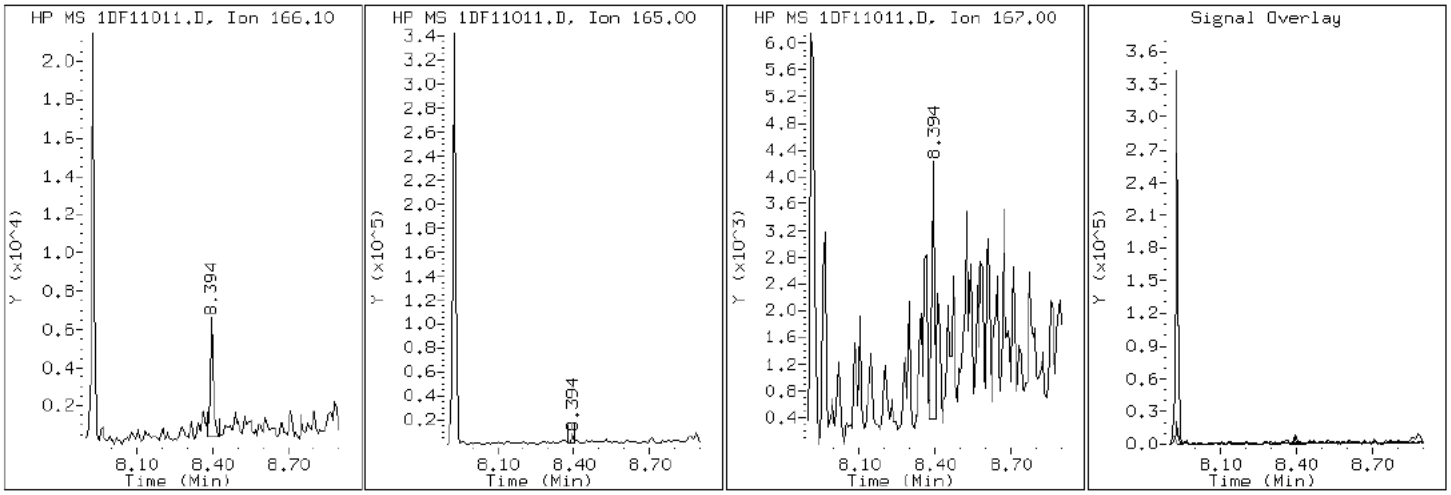
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

10 Fluorene



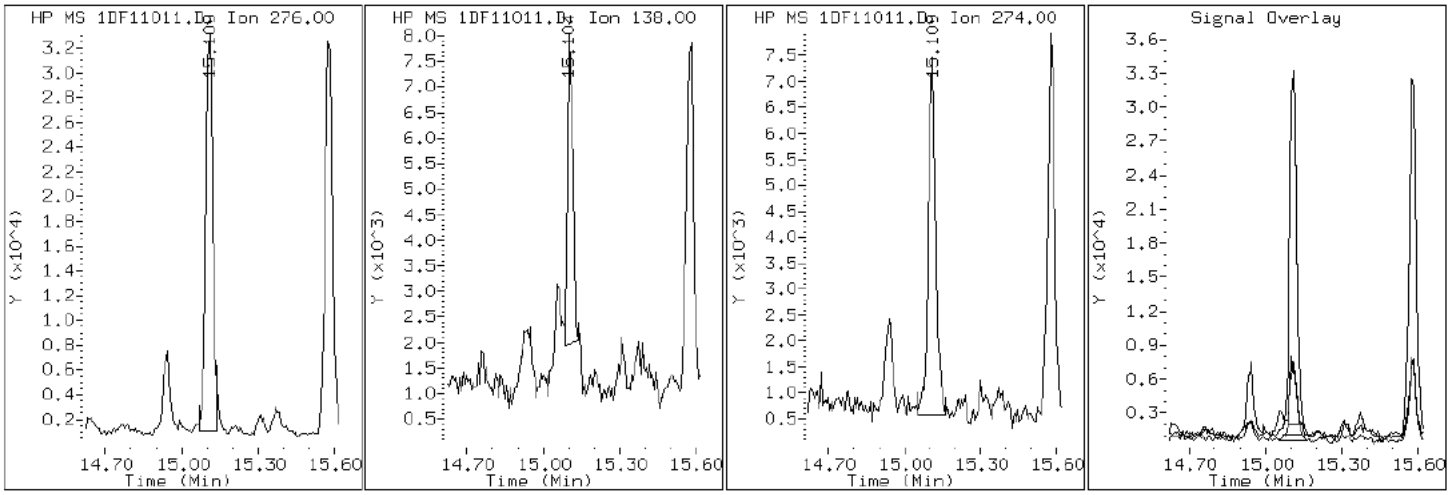
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

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



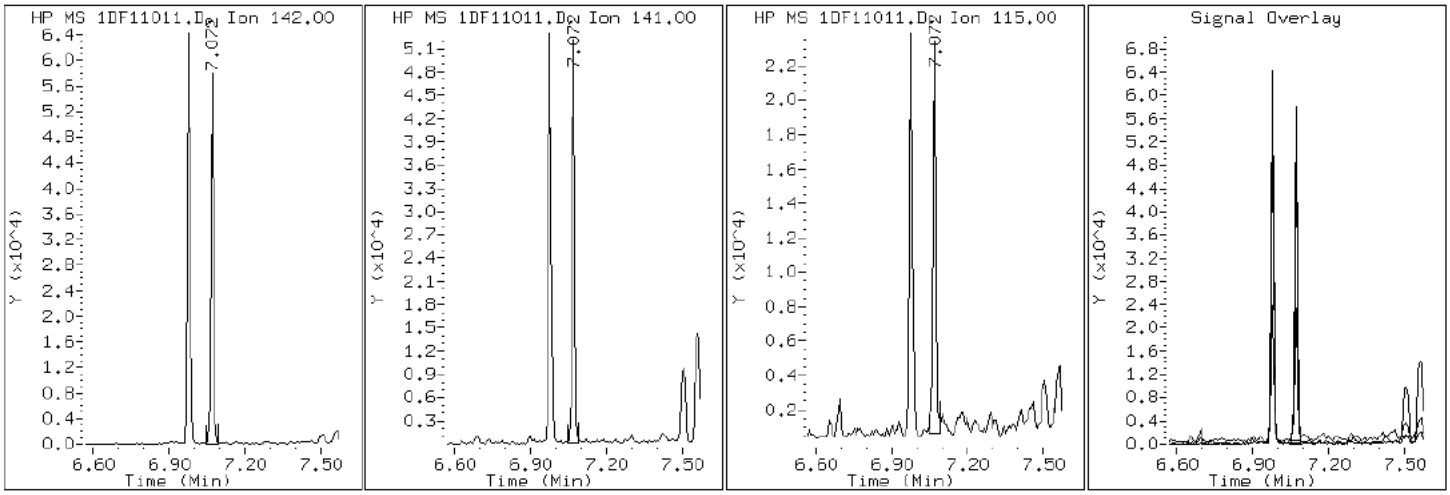
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

4 1-Methylnaphthalene



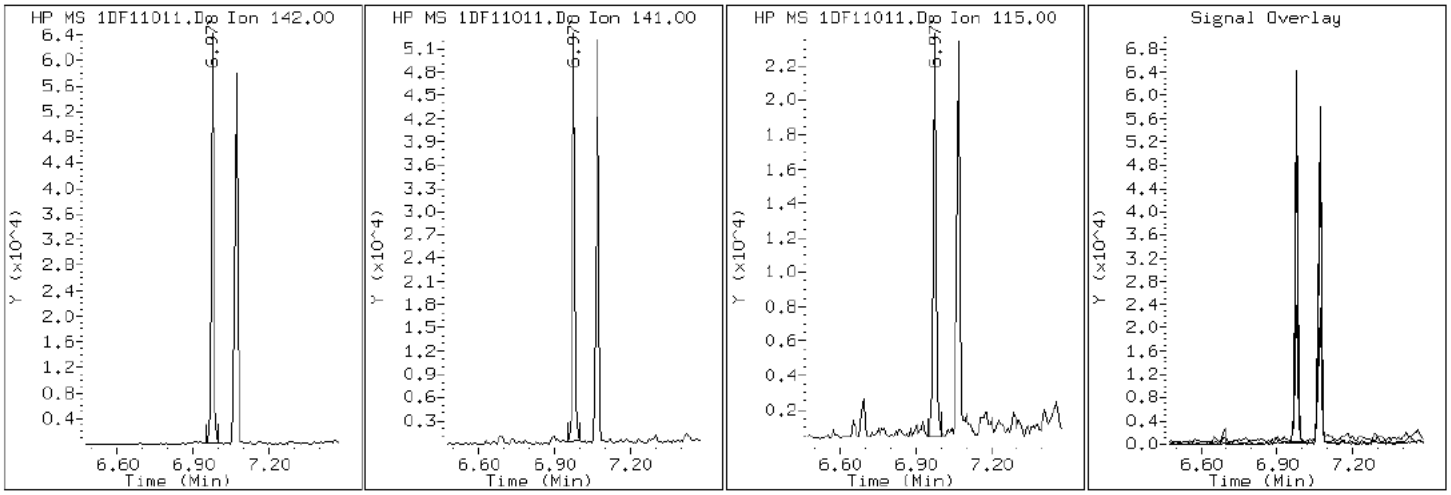
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

3 2-Methylnaphthalene



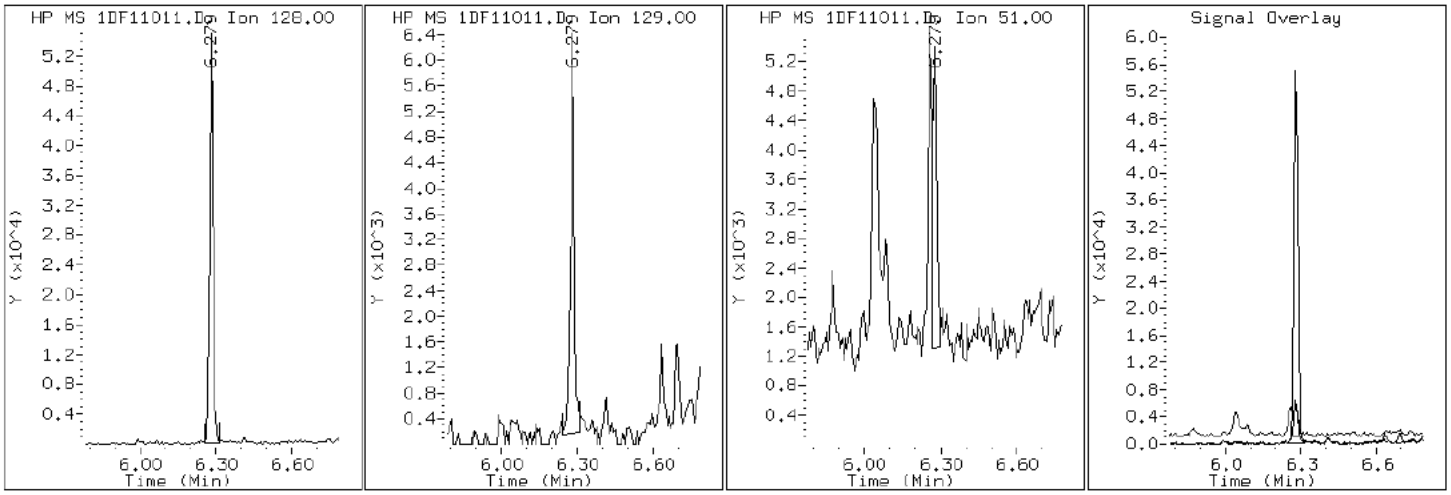
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

2 Naphthalene



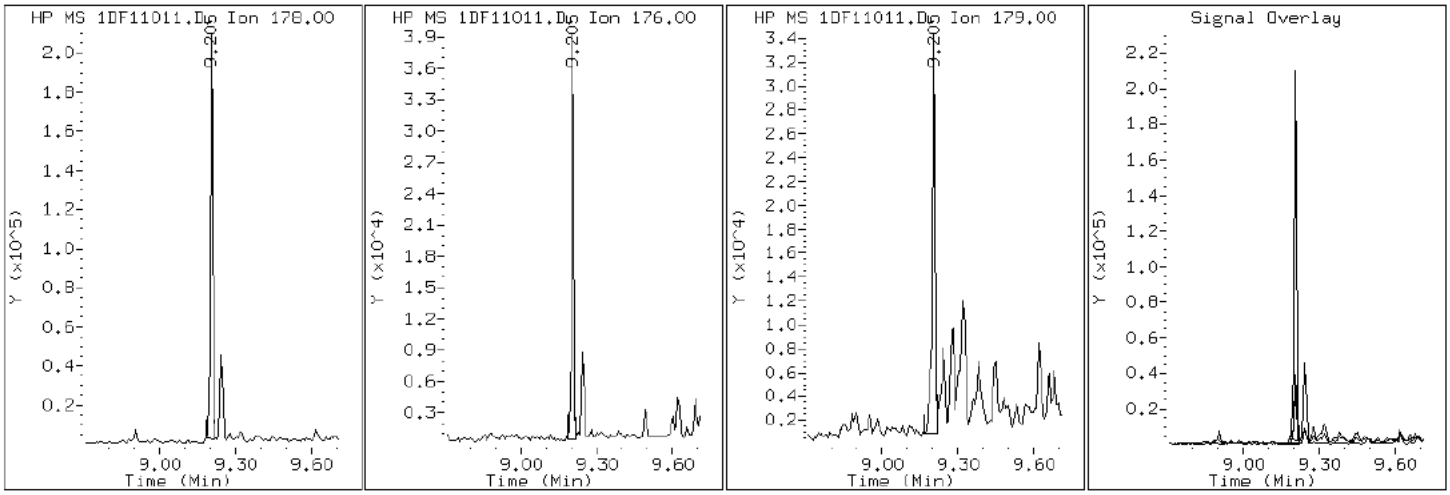
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

12 Phenanthrene



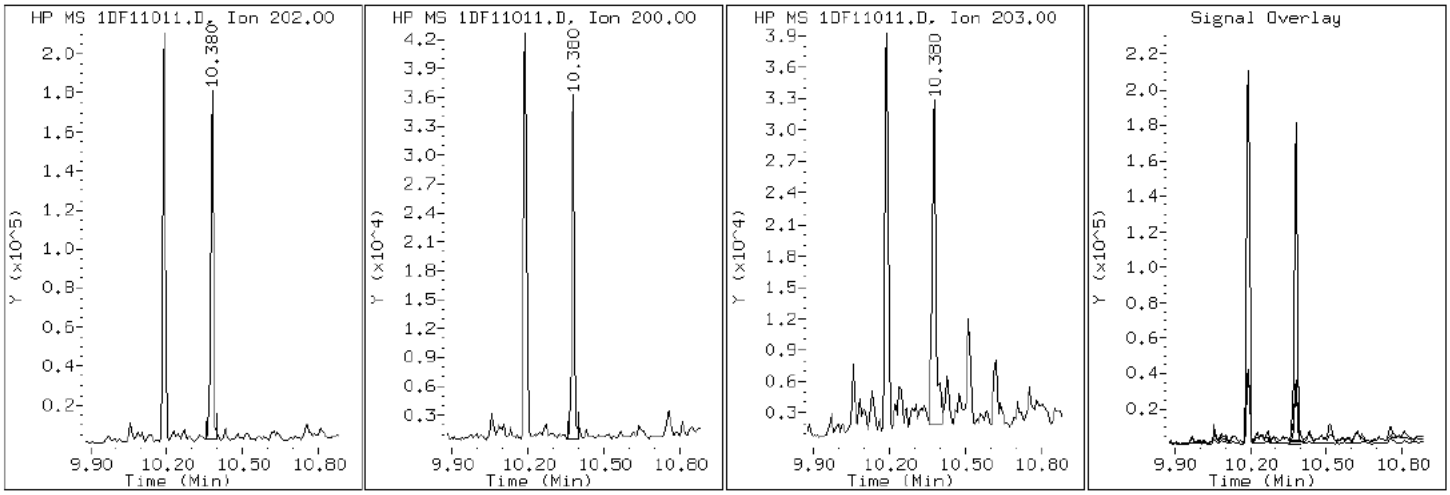
Data File: 1DF11011.D

Date: 11-JUN-2013 15:00

Client ID: CV1167B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-8-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11011.D
Inj. Date and Time: 11-JUN-2013 15:00
Instrument ID: BSMSD.i
Client ID: CV1167B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

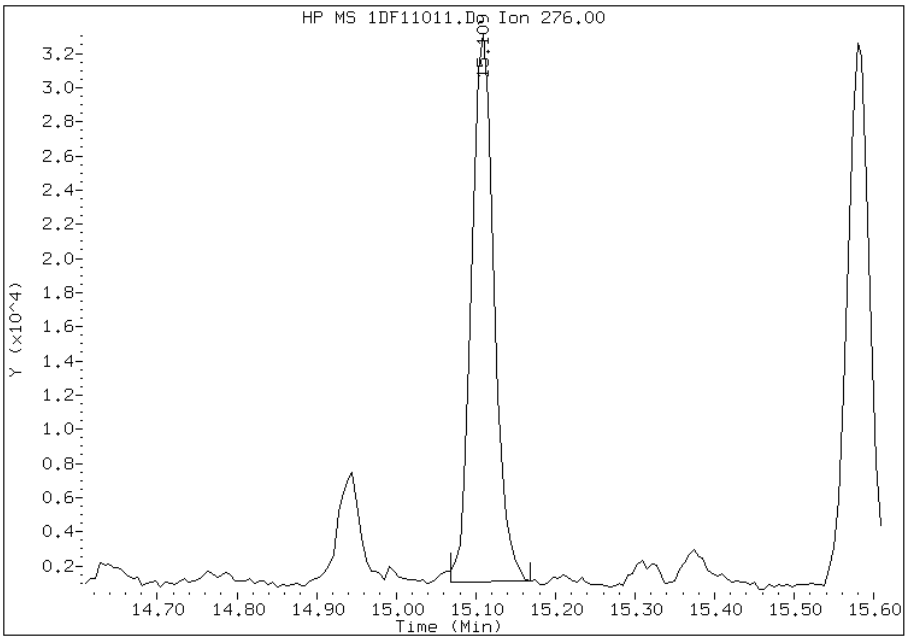
Processing Integration Results

RT: 15.11

Response: 63150

Amount: 1

Conc: 364



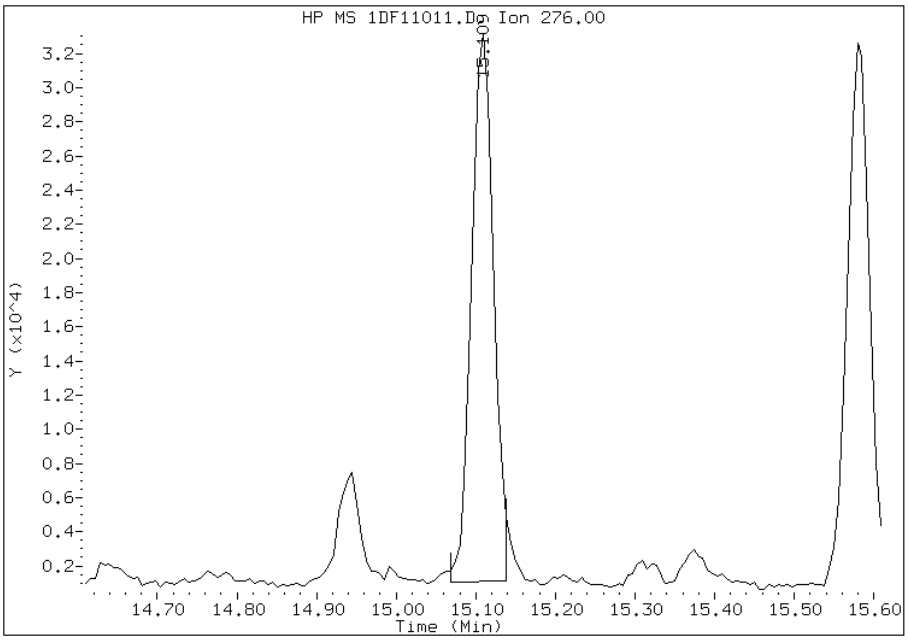
Manual Integration Results

RT: 15.11

Response: 61725

Amount: 1

Conc: 357



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308A-CS | Lab Sample ID: 680-90855-9

Matrix: Solid | Lab File ID: 1DF11012.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 08:56

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.18(g) | Date Analyzed: 06/11/2013 15:23

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

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

% Moisture: 13.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	18	J	46	5.7
120-12-7	Anthracene	24		9.6	4.8
56-55-3	Benzo[a]anthracene	80		9.1	4.4
50-32-8	Benzo[a]pyrene	84		12	5.9
205-99-2	Benzo[b]fluoranthene	140		14	6.9
191-24-2	Benzo[g,h,i]perylene	62		23	5.0
207-08-9	Benzo[k]fluoranthene	44		9.1	4.1
218-01-9	Chrysene	110		10	5.1
53-70-3	Dibenz(a,h)anthracene	24		23	4.7
206-44-0	Fluoranthene	130		23	4.6
86-73-7	Fluorene	6.5	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	63		23	8.1
90-12-0	1-Methylnaphthalene	67		46	5.0
91-57-6	2-Methylnaphthalene	88		46	8.1
91-20-3	Naphthalene	56		46	5.0
85-01-8	Phenanthrene	110		9.1	4.4
129-00-0	Pyrene	120		23	4.2

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\1D061113.b\1DF11012.D
Lab Smp Id: 680-90855-A-9-A Client Smp ID: FM0308A-CS
Inj Date : 11-JUN-2013 15:23
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-9-a
Misc Info : 680-90855-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 12
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	15.180	Weight Extracted
M	13.155	% 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	6.259	6.260	(1.000)	3507618	40.0000	
*	7 Acenaphthene-d10	164	7.928	7.929	(1.000)	2055283	40.0000	
*	11 Phenanthrene-d10	188	9.191	9.192	(1.000)	3276339	40.0000	
$	15 o-Terphenyl	230	9.497	9.497	(1.033)	284649	5.93028	450
*	19 Chrysene-d12	240	11.559	11.560	(1.000)	2983173	40.0000	
*	24 Perylene-d12	264	13.474	13.469	(1.000)	2723017	40.0000	
	2 Naphthalene	128	6.277	6.284	(1.003)	64215	0.74237	56
	3 2-Methylnaphthalene	142	6.976	6.977	(1.115)	63579	1.15439	88
	4 1-Methylnaphthalene	142	7.070	7.071	(1.130)	50204	0.88543	67
	6 Acenaphthylene	152	7.799	7.799	(0.984)	20607	0.24182	18
	10 Fluorene	166	8.392	8.399	(1.059)	5212	0.08521	6.5
	12 Phenanthrene	178	9.203	9.210	(1.001)	125727	1.41690	110
	13 Anthracene	178	9.244	9.251	(1.006)	26683	0.30992	24
	16 Fluoranthene	202	10.190	10.191	(1.109)	154511	1.70207	130

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.378	10.379	(0.898)	137666	1.57621	120
18 Benzo(a)anthracene	228	11.541	11.536	(0.998)	93690	1.05824	80
20 Chrysene	228	11.582	11.583	(1.002)	119052	1.49332	110
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.957)	126371	1.85247	140
22 Benzo(k)fluoranthene	252	12.928	12.940	(0.959)	41267	0.57767	44
23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	67754	1.10171	84
25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.122)	48611	0.83484	63(M)
26 Dibenzo(a,h)anthracene	278	15.143	15.156	(1.124)	15562	0.31109	24
27 Benzo(g,h,i)perylene	276	15.595	15.602	(1.157)	50433	0.81567	62

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF11012.D

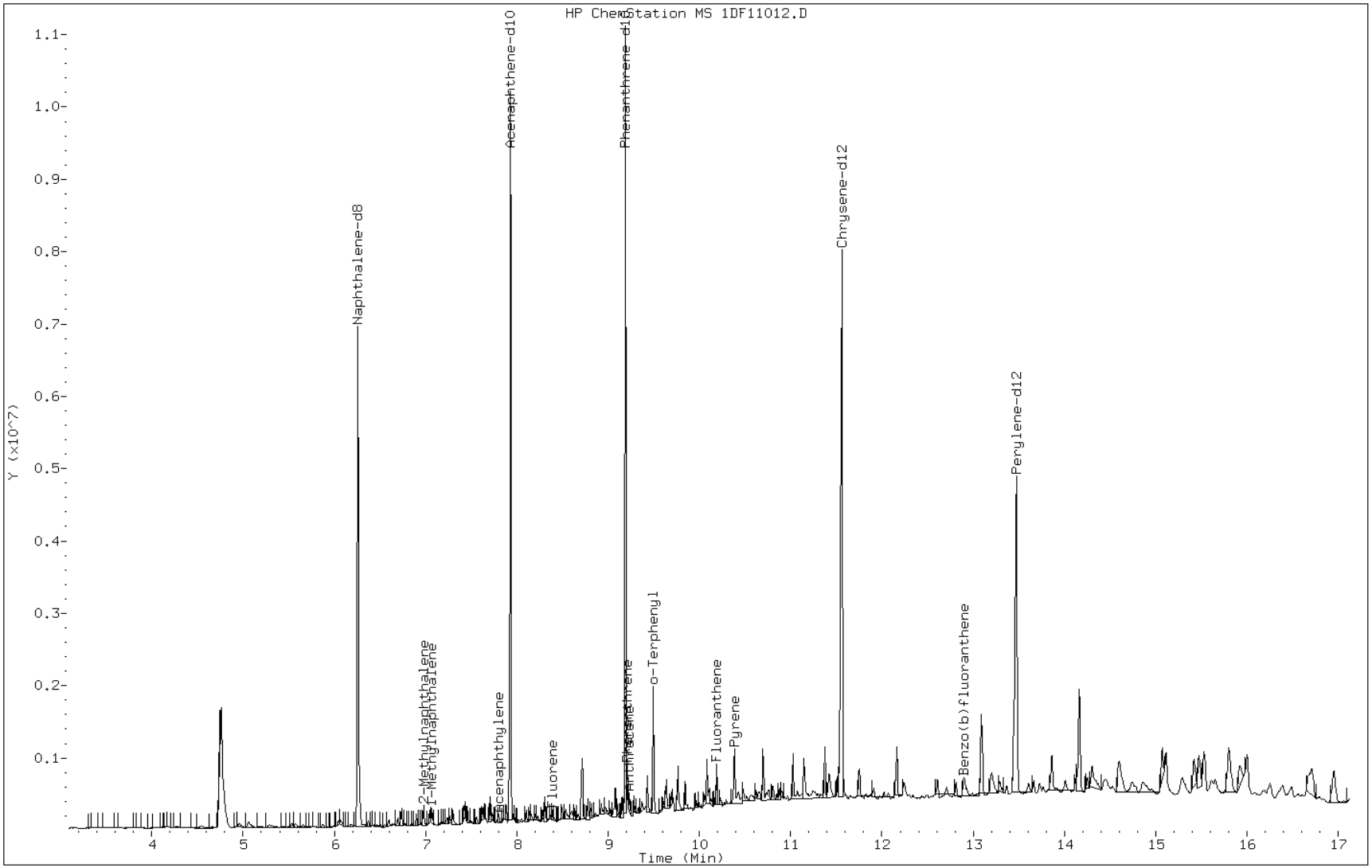
Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a

Operator: SCC



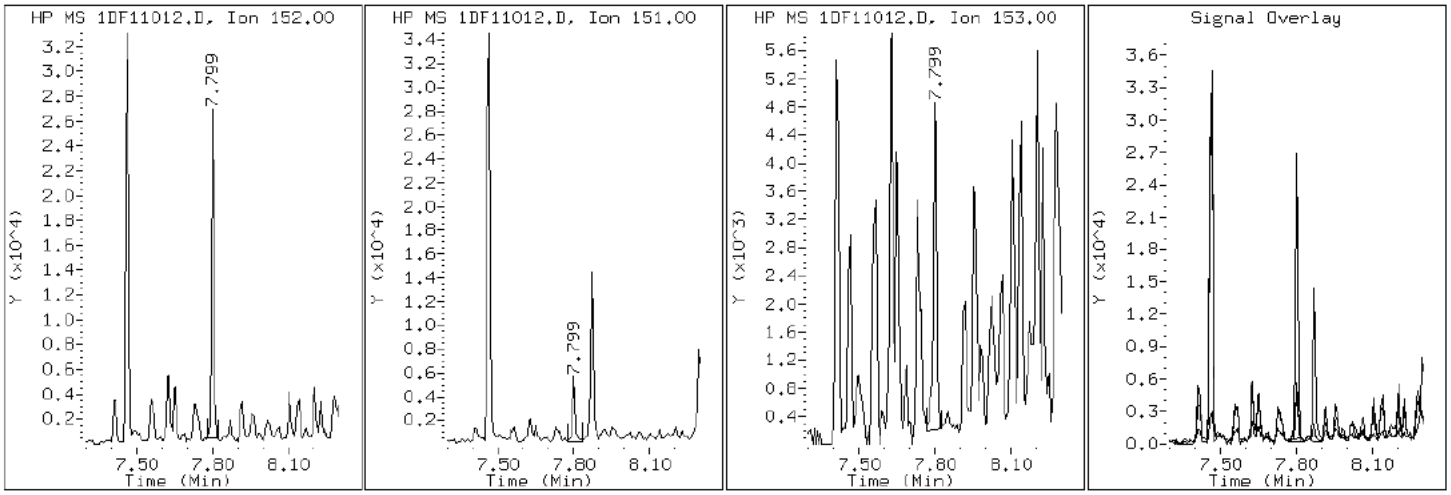
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

6 Acenaphthylene



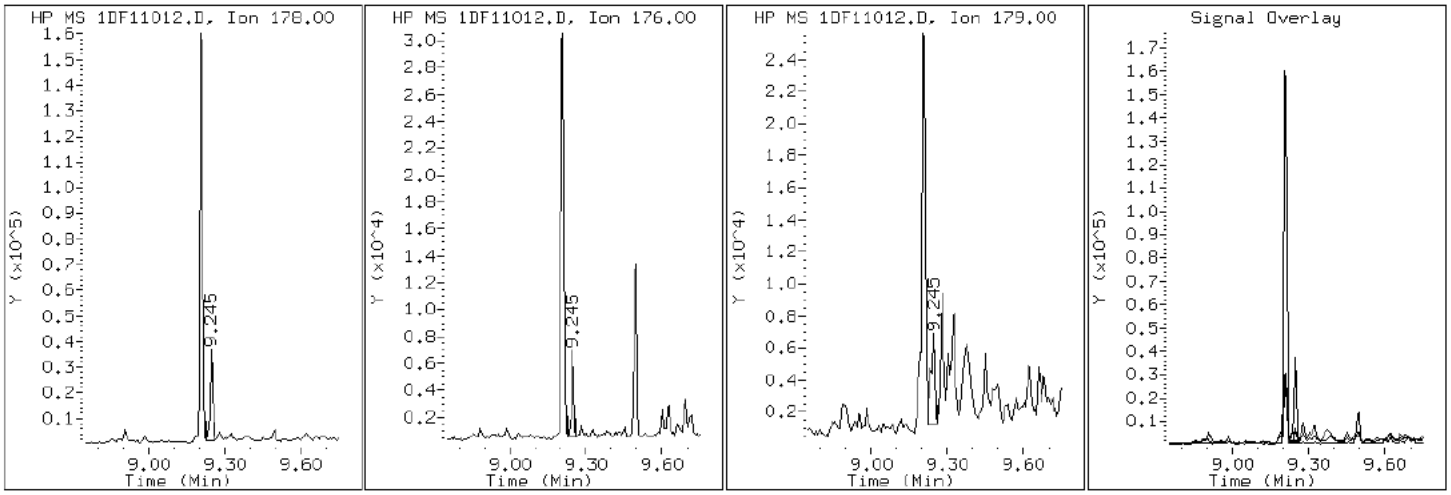
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

13 Anthracene



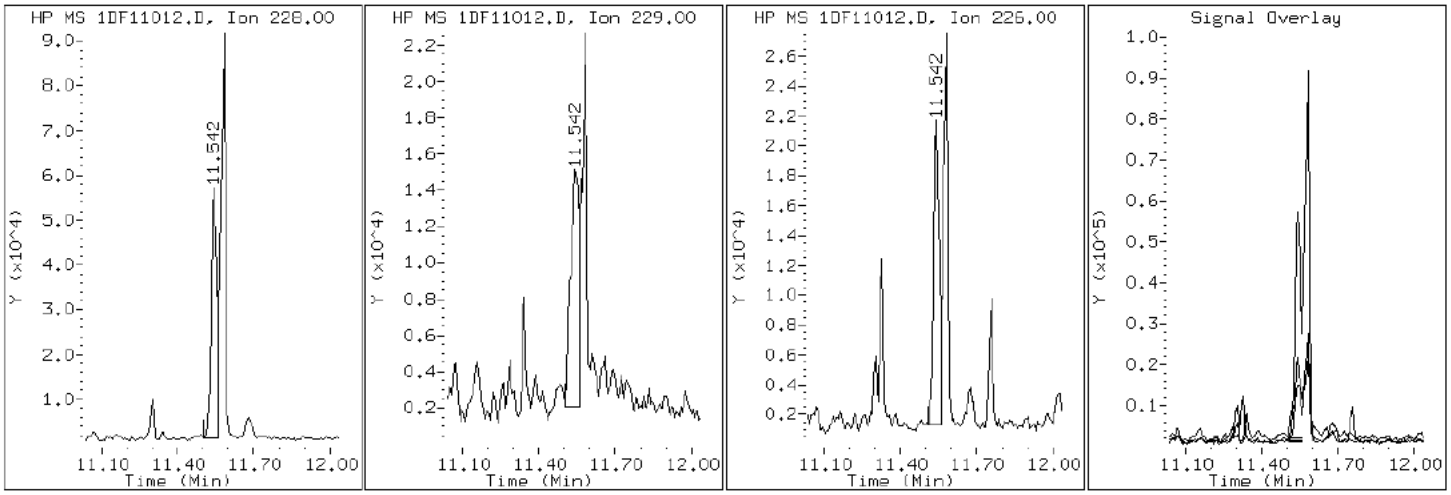
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

18 Benzo(a)anthracene



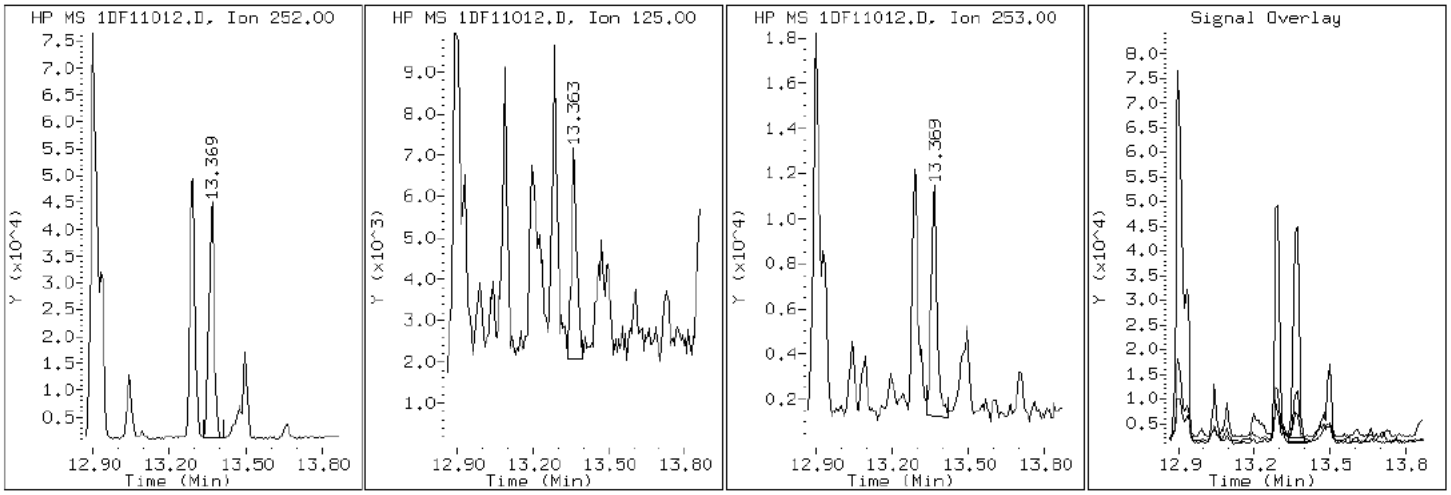
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

23 Benzo(a)pyrene



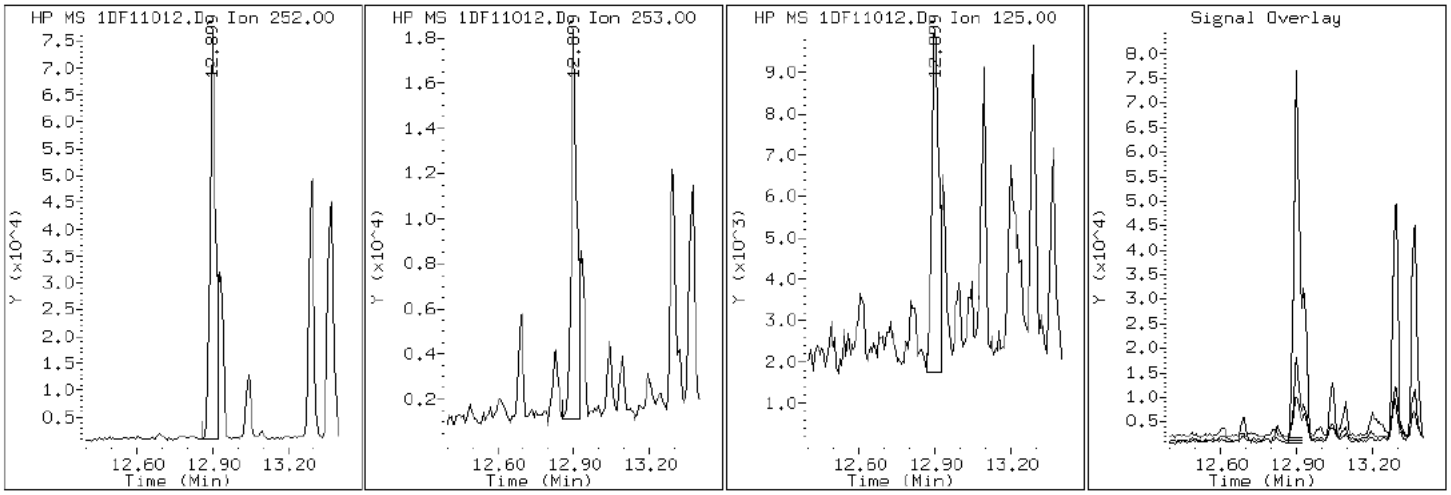
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

21 Benzo(b)fluoranthene



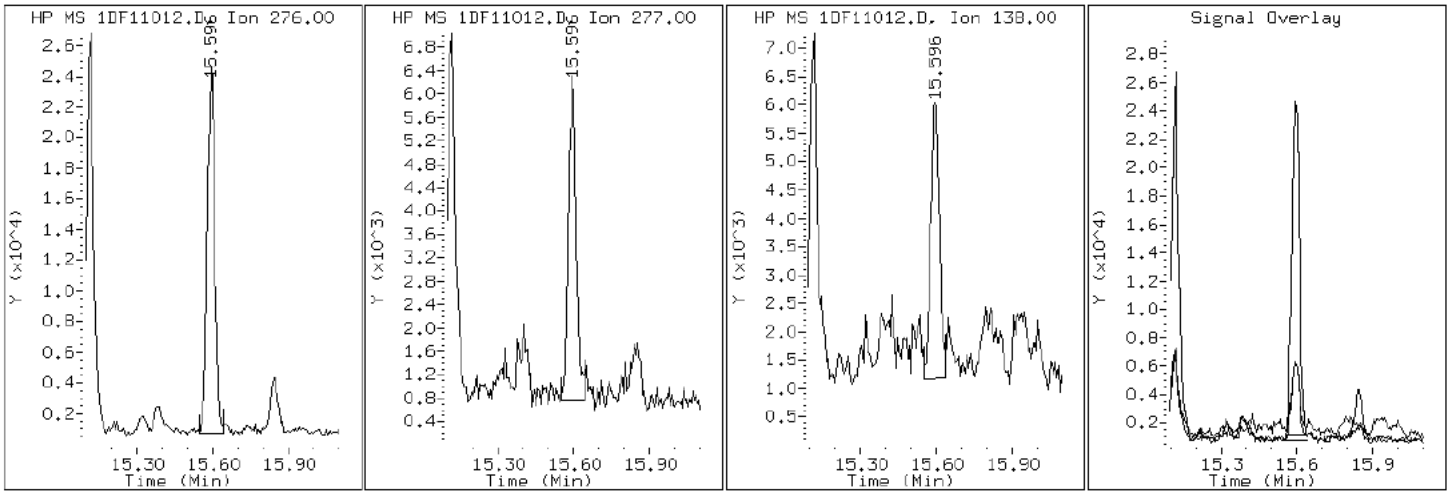
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

27 Benzo(g,h,i)perylene



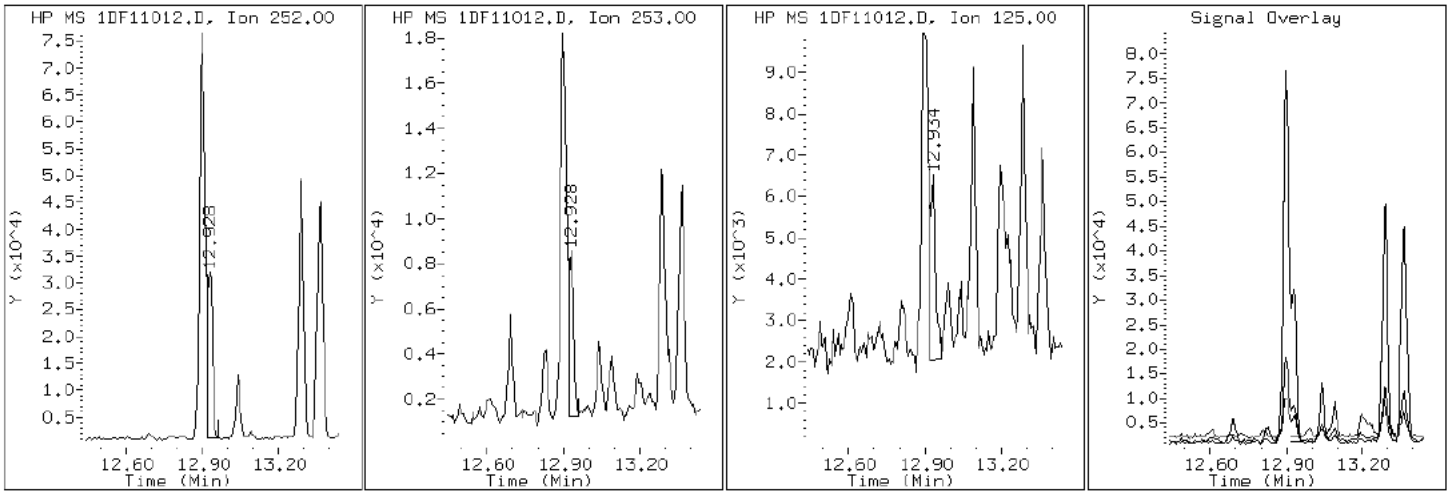
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

22 Benzo(k)fluoranthene



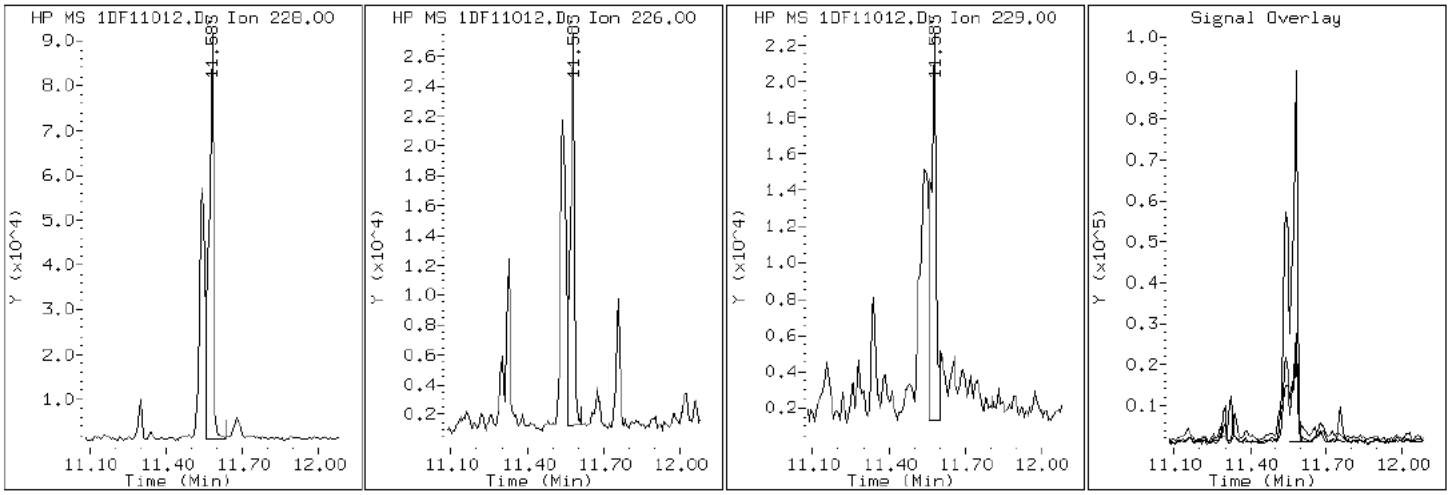
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

20 Chrysene



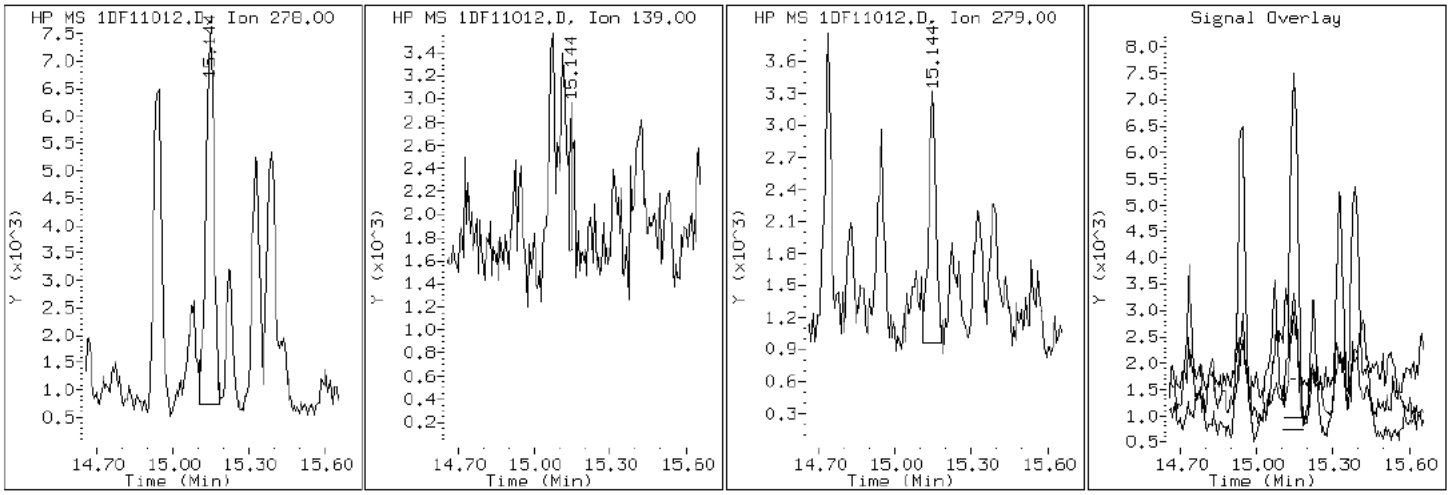
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

26 Dibenzo(a,h)anthracene



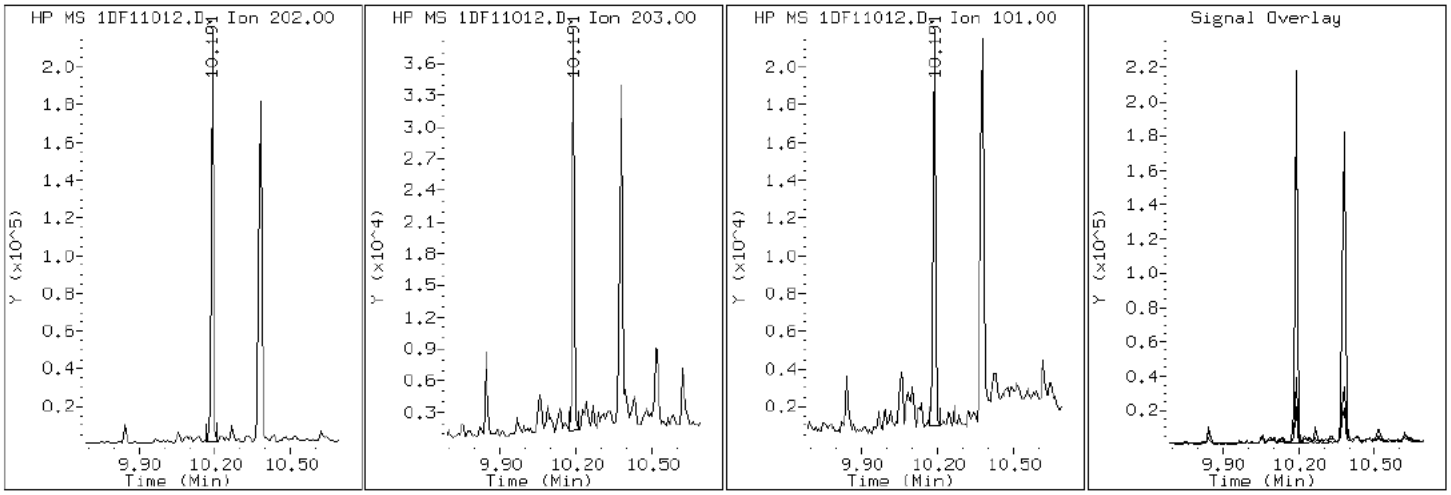
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

16 Fluoranthene



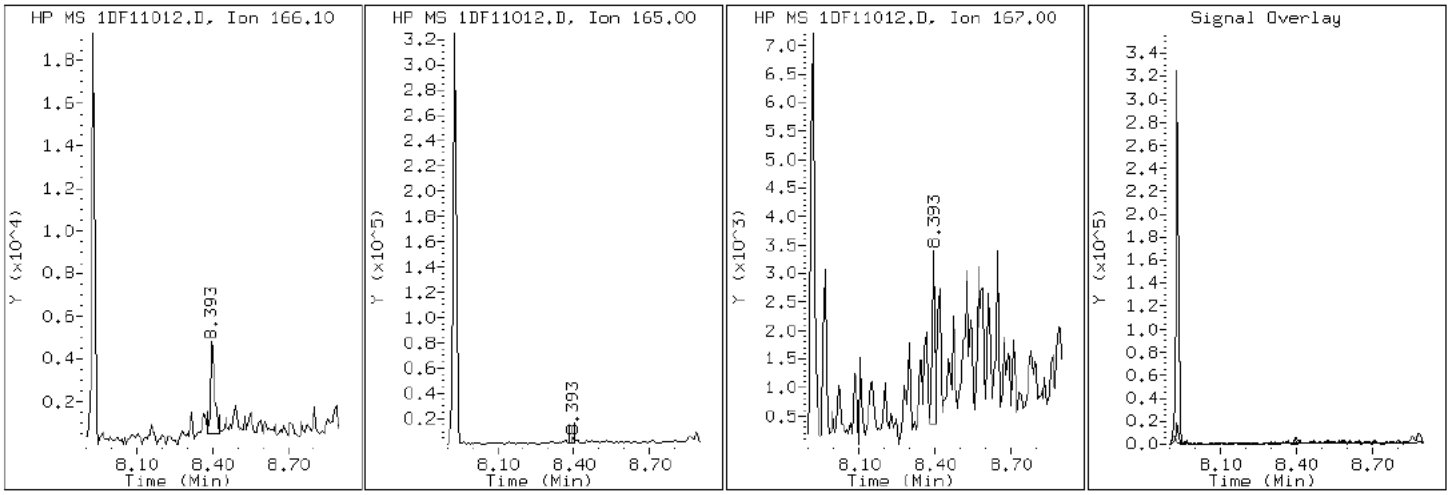
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

10 Fluorene



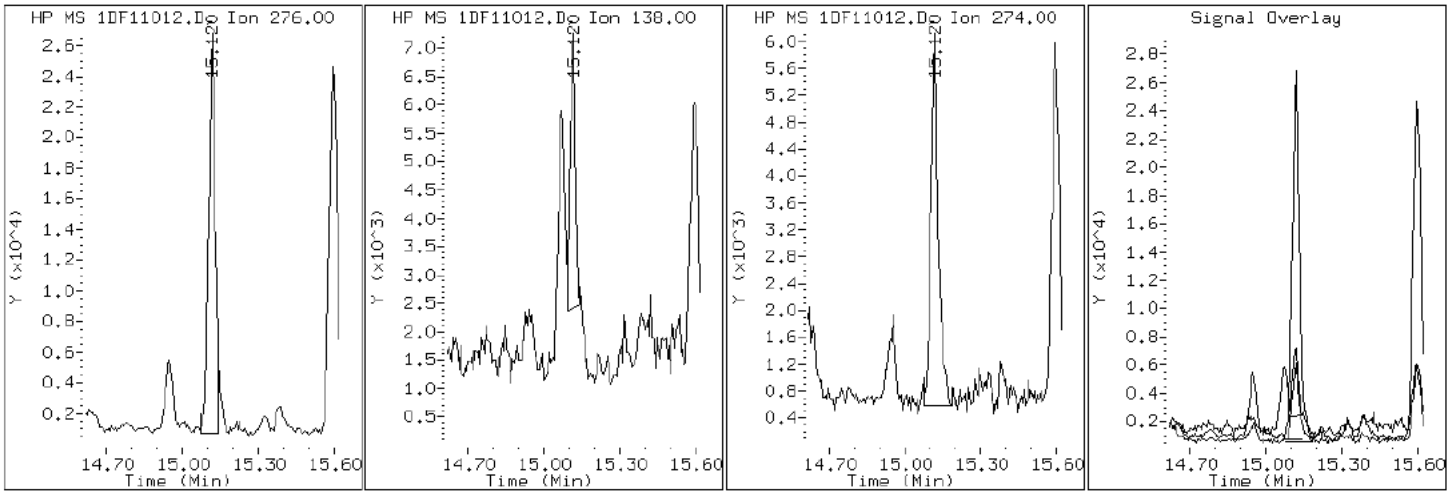
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

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



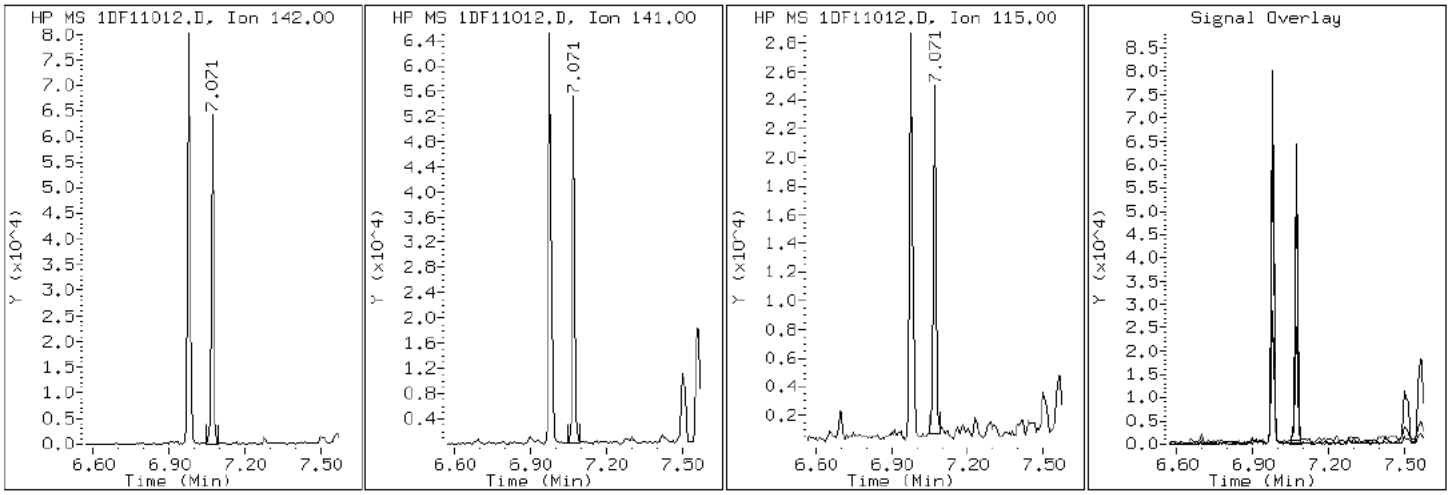
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

4 1-Methylnaphthalene



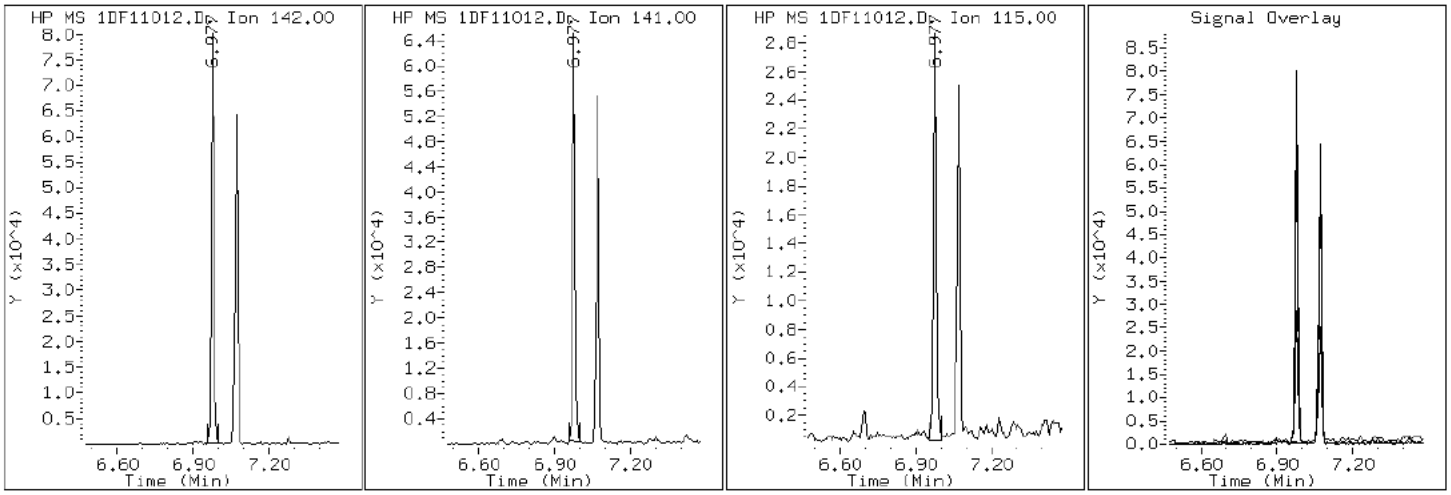
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

3 2-Methylnaphthalene



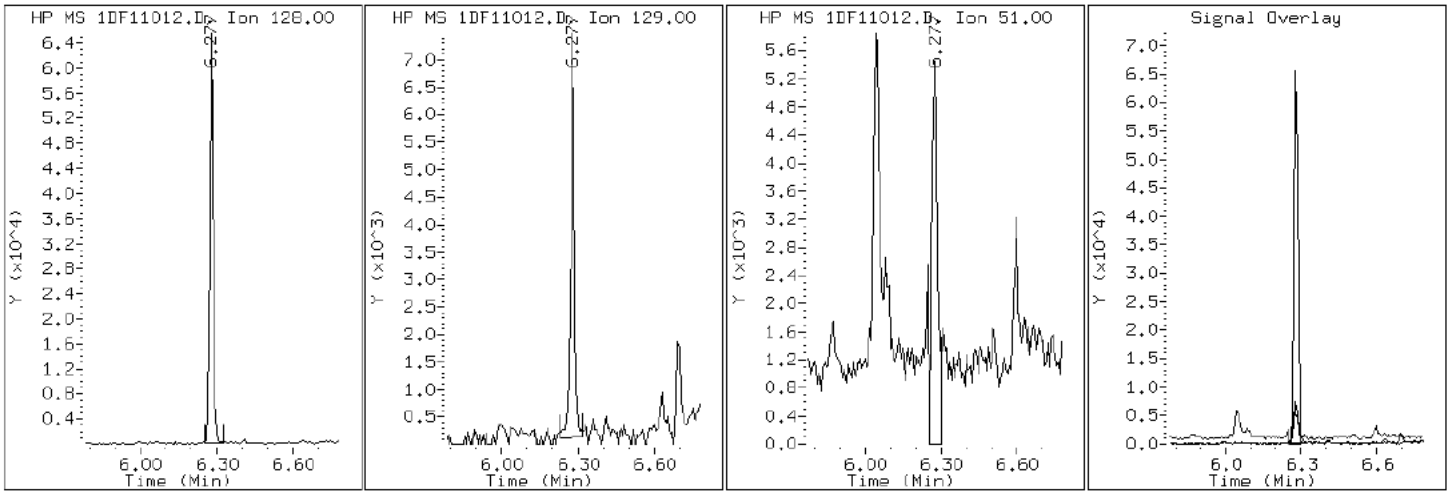
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

2 Naphthalene



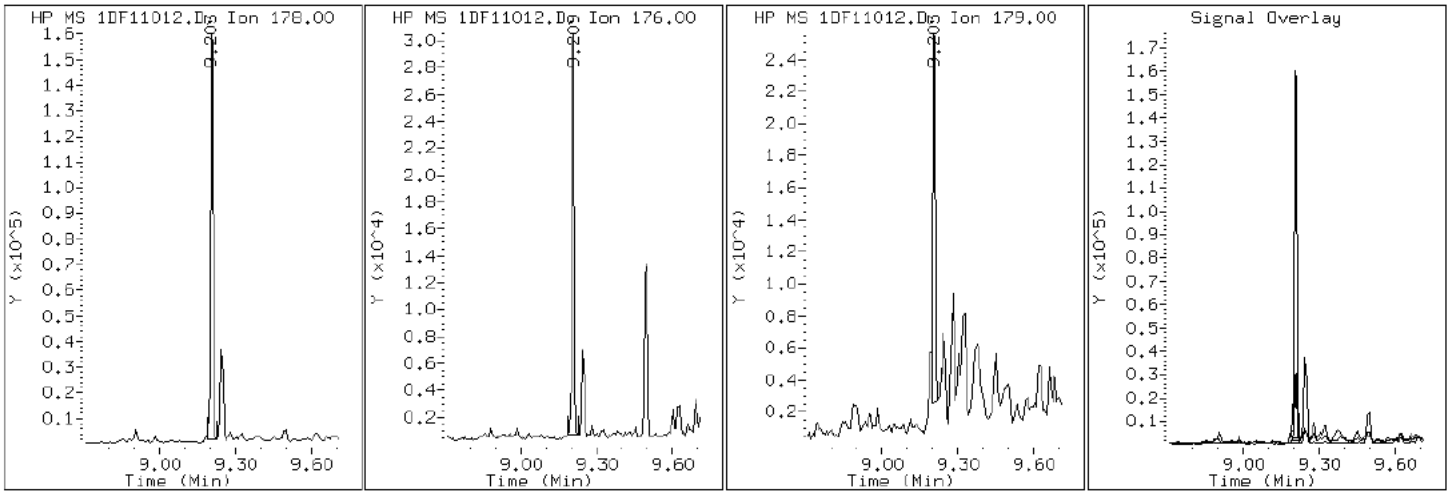
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

12 Phenanthrene



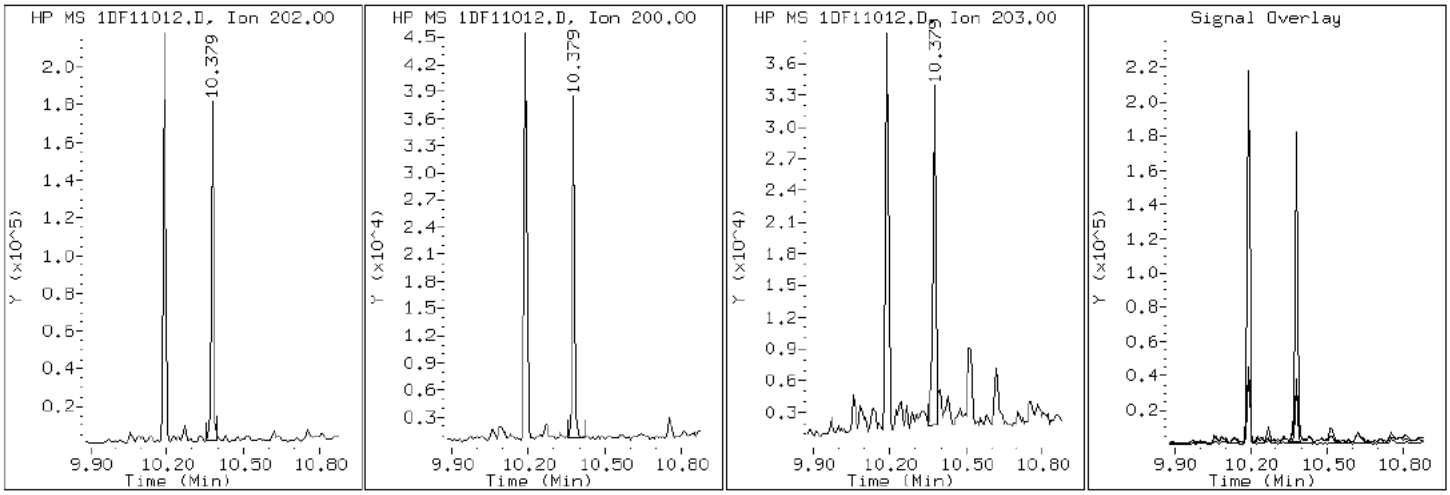
Data File: 1DF11012.D

Date: 11-JUN-2013 15:23

Client ID: FM0308A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-9-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11012.D
Inj. Date and Time: 11-JUN-2013 15:23
Instrument ID: BSMSD.i
Client ID: FM0308A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

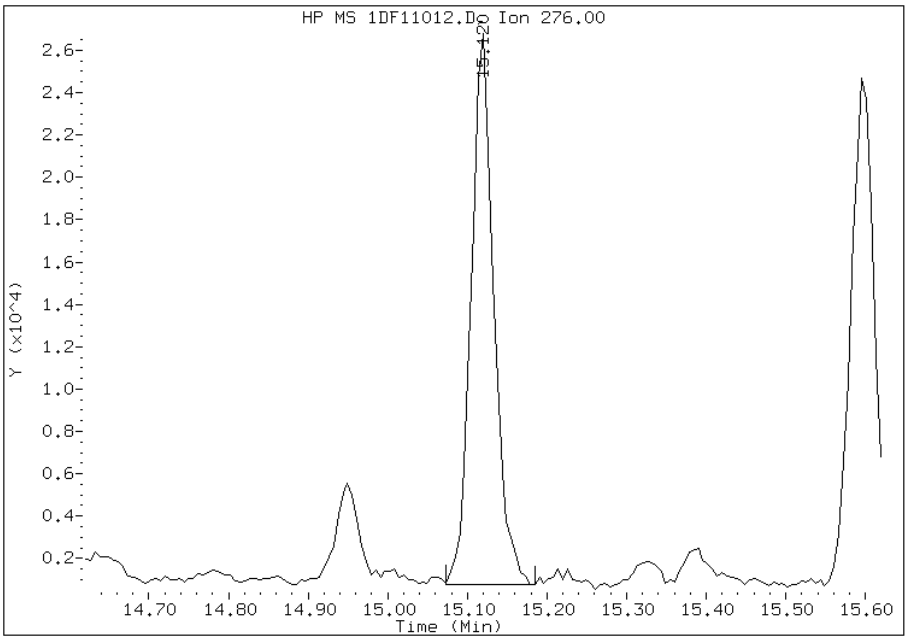
Processing Integration Results

RT: 15.12

Response: 51299

Amount: 1

Conc: 66



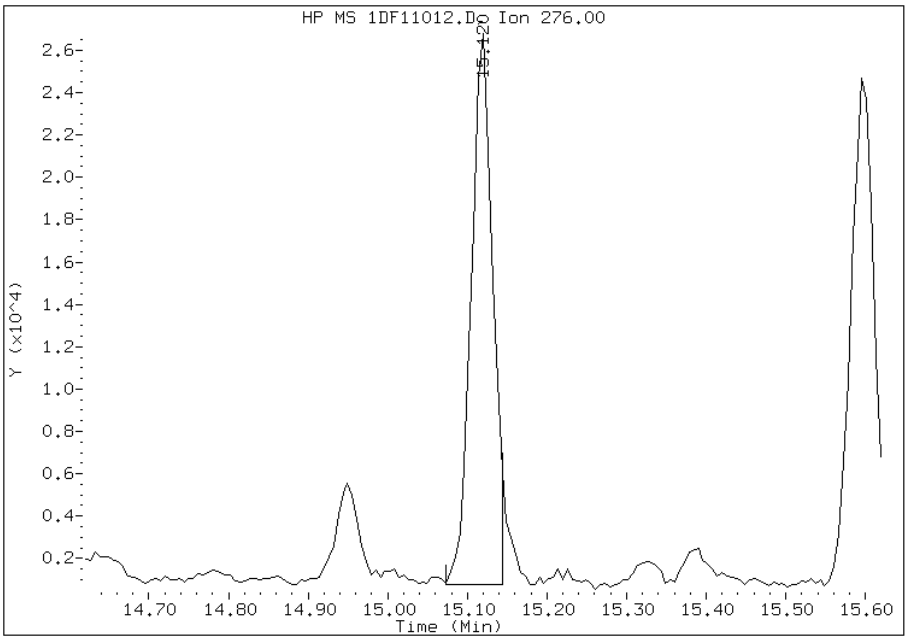
Manual Integration Results

RT: 15.12

Response: 48611

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308A-CSD | Lab Sample ID: 680-90855-10

Matrix: Solid | Lab File ID: 1DF11013.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 08:56

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.37(g) | Date Analyzed: 06/11/2013 15:46

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

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

% Moisture: 13.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	21	J	45	5.6
120-12-7	Anthracene	22		9.4	4.7
56-55-3	Benzo[a]anthracene	79		9.0	4.4
50-32-8	Benzo[a]pyrene	91		12	5.8
205-99-2	Benzo[b]fluoranthene	150		14	6.9
191-24-2	Benzo[g,h,i]perylene	69		22	4.9
207-08-9	Benzo[k]fluoranthene	53		9.0	4.0
218-01-9	Chrysene	110		10	5.1
53-70-3	Dibenz(a,h)anthracene	23		22	4.6
206-44-0	Fluoranthene	130		22	4.5
86-73-7	Fluorene	5.0	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	68		22	8.0
90-12-0	1-Methylnaphthalene	52		45	4.9
91-57-6	2-Methylnaphthalene	70		45	8.0
91-20-3	Naphthalene	50		45	4.9
85-01-8	Phenanthrene	84		9.0	4.4
129-00-0	Pyrene	120		22	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11013.D
Lab Smp Id: 680-90855-A-10-A Client Smp ID: FM0308A-CSD
Inj Date : 11-JUN-2013 15:46
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-10-a
Misc Info : 680-90855-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 13
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	15.370	Weight Extracted
M	13.189	% 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	6.257	6.260	(1.000)	3479727	40.0000	
*	7 Acenaphthene-d10	164	7.932	7.929	(1.000)	2065749	40.0000	
*	11 Phenanthrene-d10	188	9.189	9.192	(1.000)	3264252	40.0000	
$	15 o-Terphenyl	230	9.494	9.497	(1.033)	306543	6.41006	480
*	19 Chrysene-d12	240	11.557	11.560	(1.000)	2943125	40.0000	
*	24 Perylene-d12	264	13.472	13.469	(1.000)	2643750	40.0000	
	2 Naphthalene	128	6.281	6.284	(1.004)	56993	0.66416	50
	3 2-Methylnaphthalene	142	6.980	6.977	(1.115)	50866	0.93097	70
	4 1-Methylnaphthalene	142	7.068	7.071	(1.130)	38965	0.69272	52
	6 Acenaphthylene	152	7.802	7.799	(0.984)	23833	0.27826	21
	10 Fluorene	166	8.396	8.399	(1.059)	4101	0.06671	5.0(Q)
	12 Phenanthrene	178	9.207	9.210	(1.002)	99482	1.12528	84
	13 Anthracene	178	9.248	9.251	(1.006)	24843	0.28962	22
	16 Fluoranthene	202	10.188	10.191	(1.109)	153693	1.69933	130

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.376	10.379	(0.898)	133117	1.54486	120
18 Benzo(a)anthracene	228	11.539	11.536	(0.998)	92252	1.05617	79
20 Chrysene	228	11.580	11.583	(1.002)	116941	1.48680	110
21 Benzo(b)fluoranthene	252	12.896	12.899	(0.957)	130287	1.96714	150
22 Benzo(k)fluoranthene	252	12.932	12.940	(0.960)	49022	0.70680	53
23 Benzo(a)pyrene	252	13.366	13.369	(0.992)	73299	1.21636	91
25 Indeno(1,2,3-cd)pyrene	276	15.117	15.120	(1.122)	51805	0.90191	68(M)
26 Dibenzo(a,h)anthracene	278	15.141	15.156	(1.124)	14816	0.30645	23
27 Benzo(g,h,i)perylene	276	15.593	15.602	(1.157)	54995	0.91612	69

QC Flag Legend

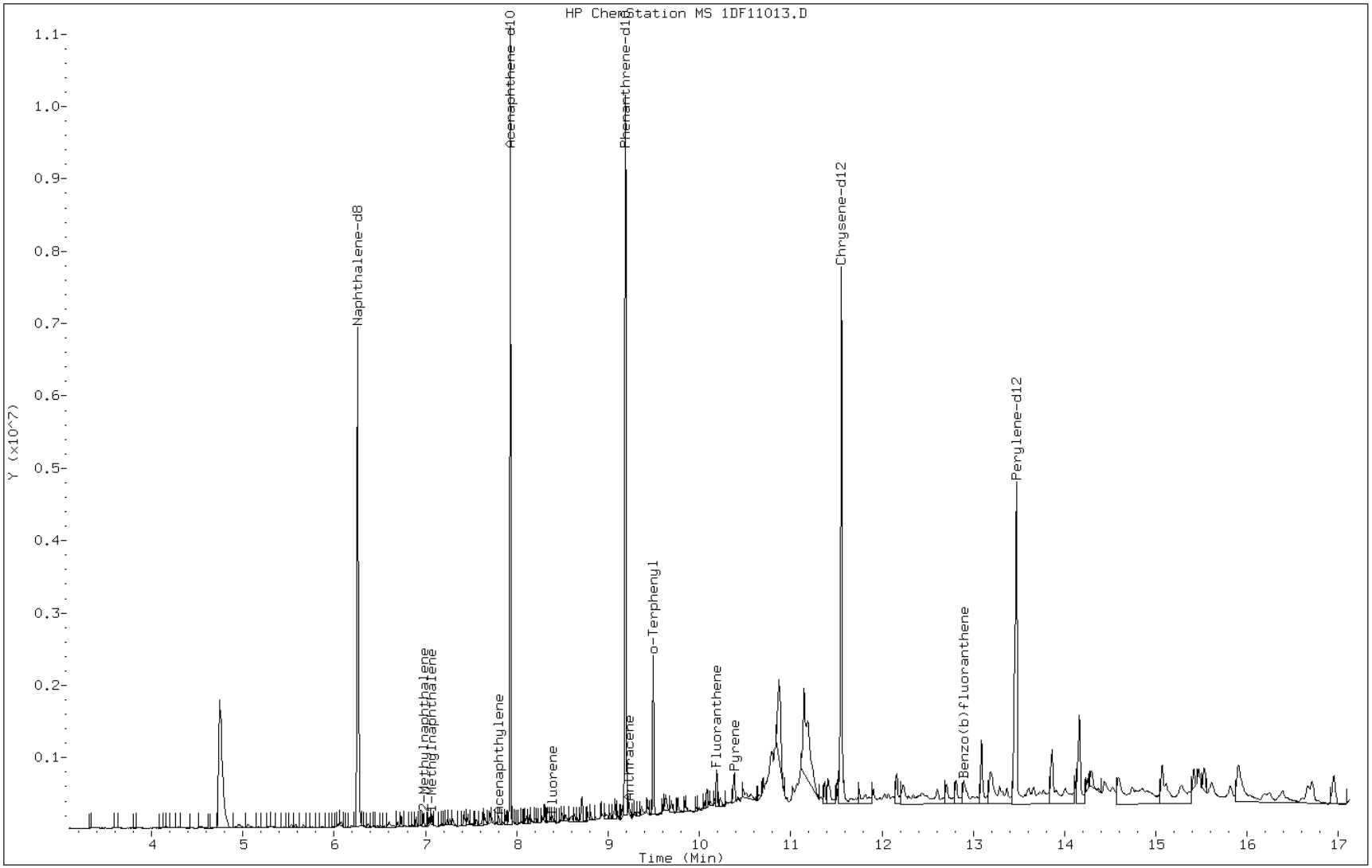
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC



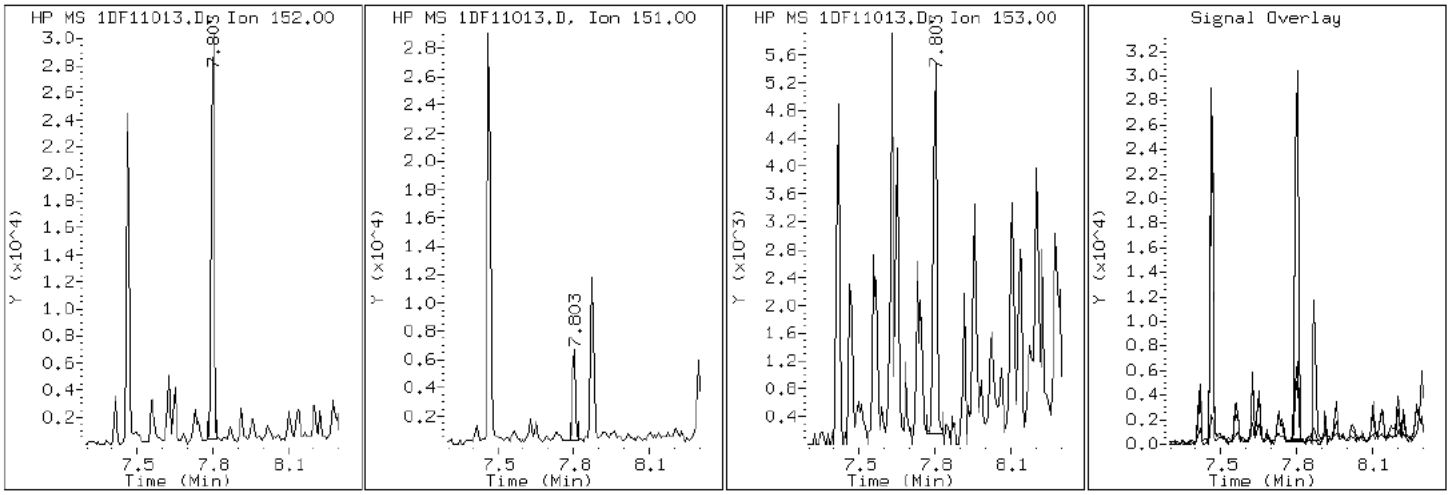
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

6 Acenaphthylene



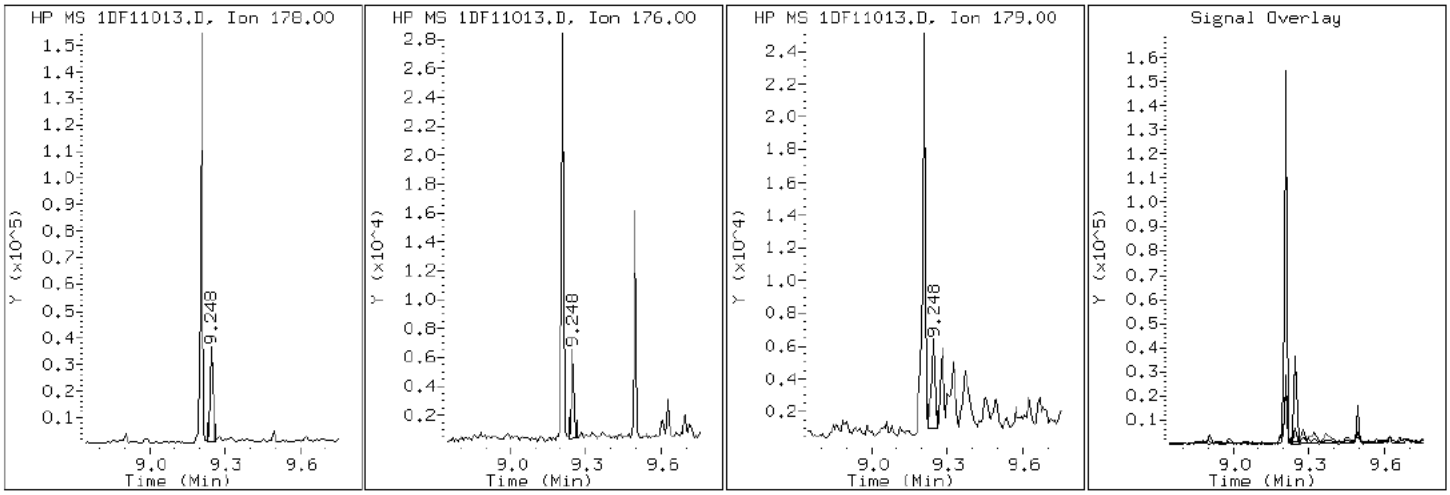
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

13 Anthracene



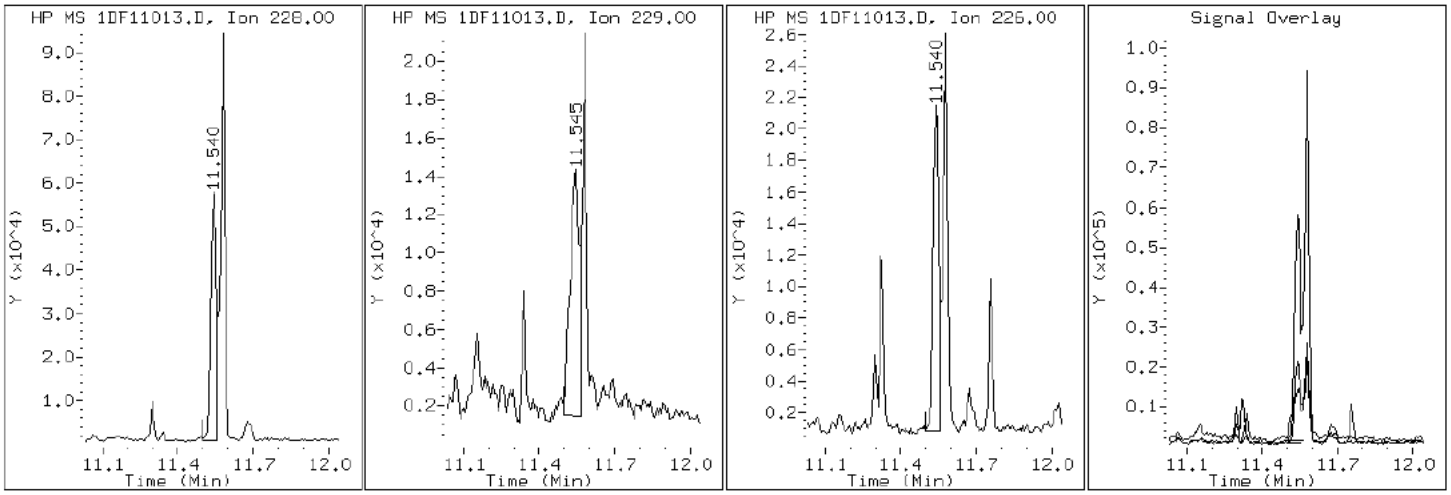
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

18 Benzo(a)anthracene



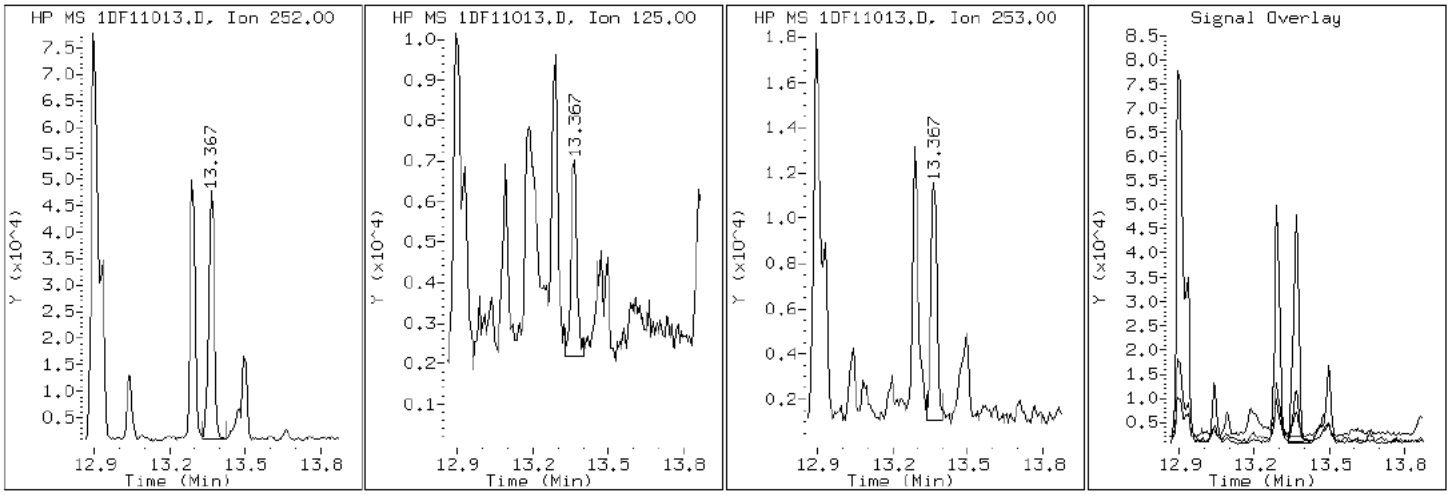
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

23 Benzo(a)pyrene



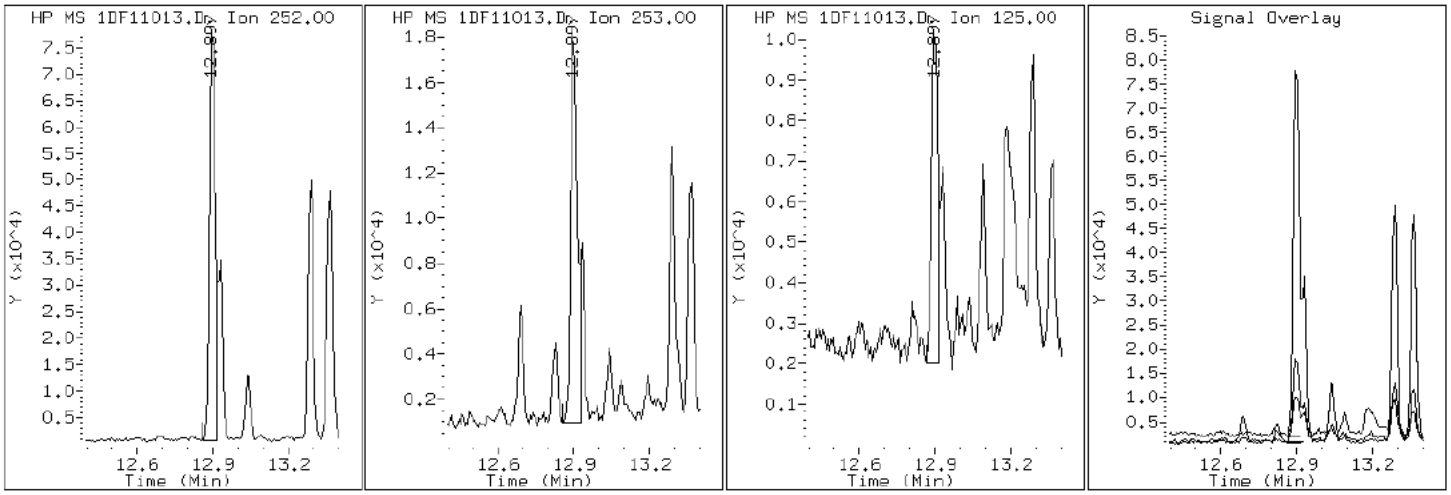
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

21 Benzo(b)fluoranthene



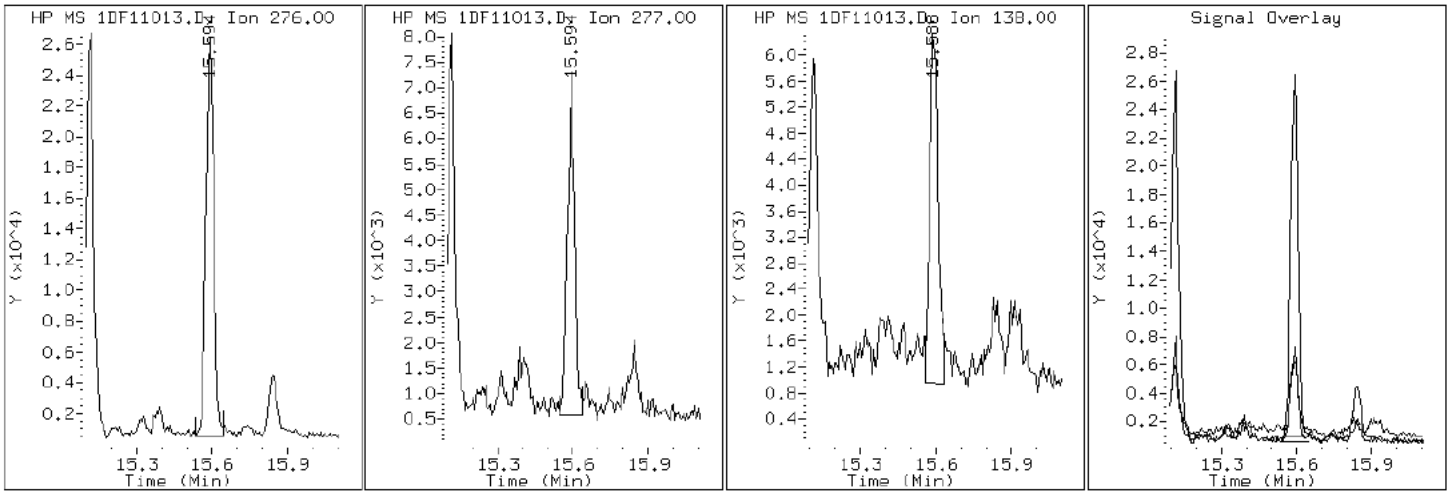
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

27 Benzo(g,h,i)perylene



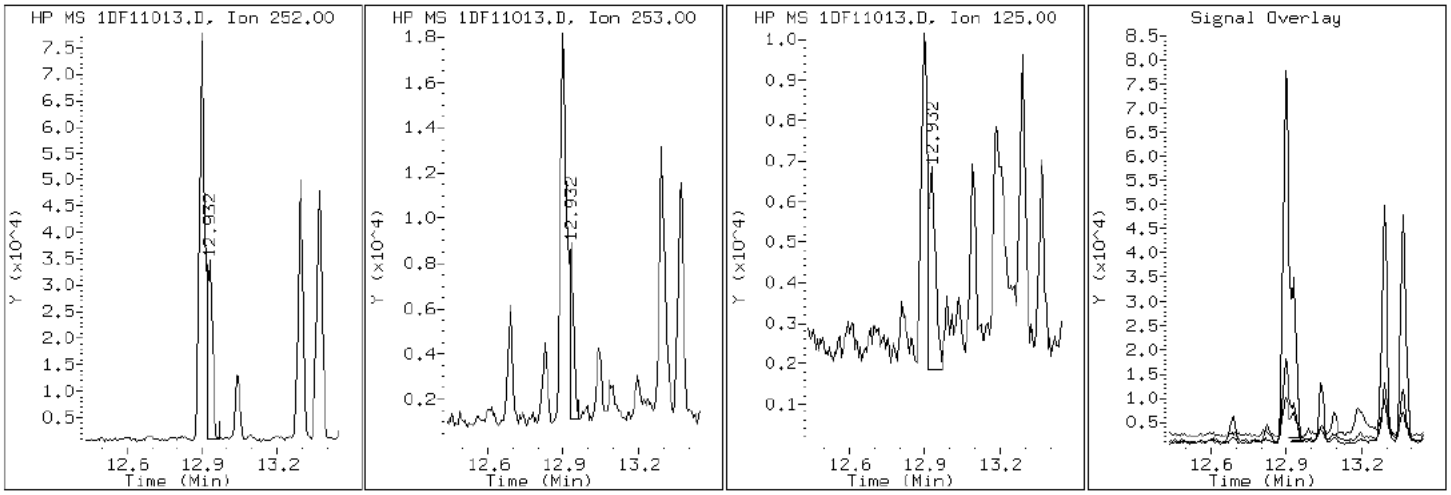
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

22 Benzo(k)fluoranthene



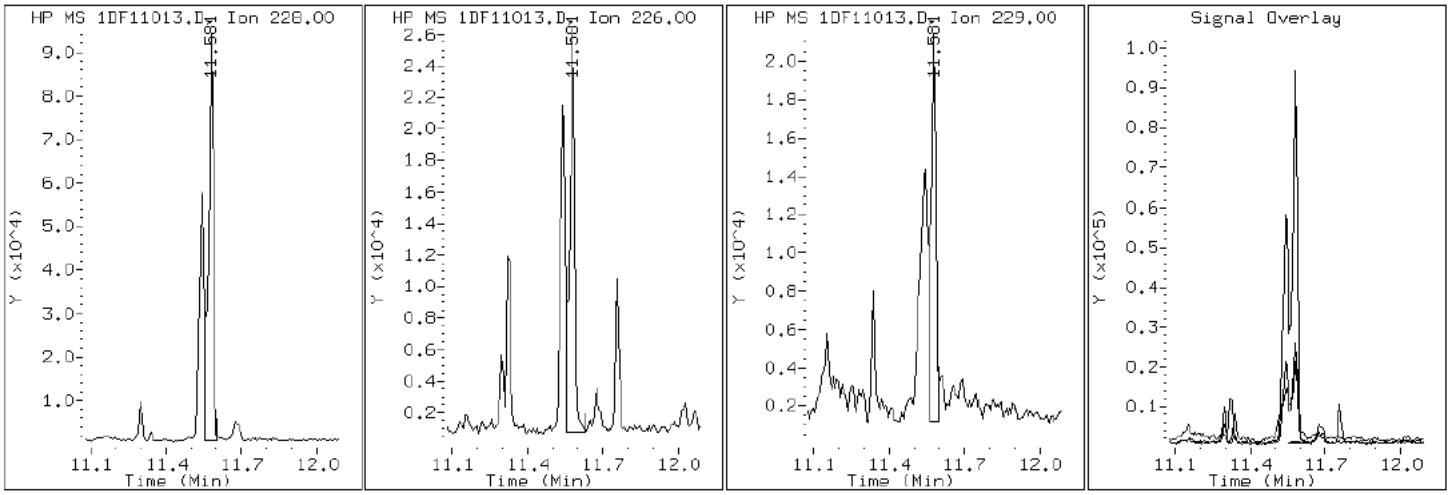
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

20 Chrysene



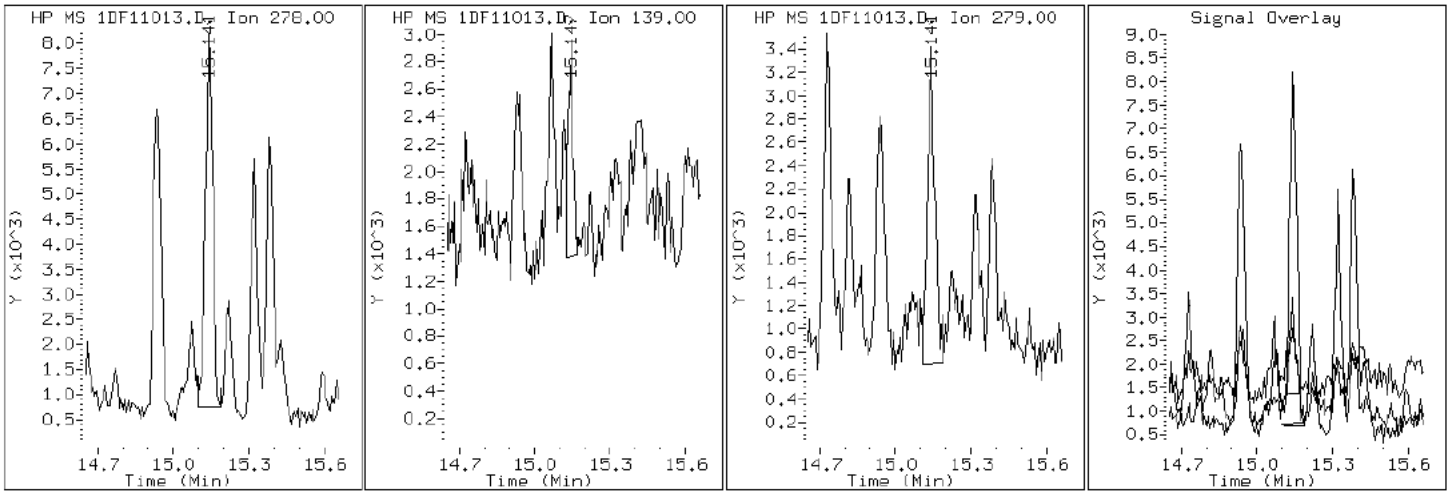
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

26 Dibenzo(a,h)anthracene



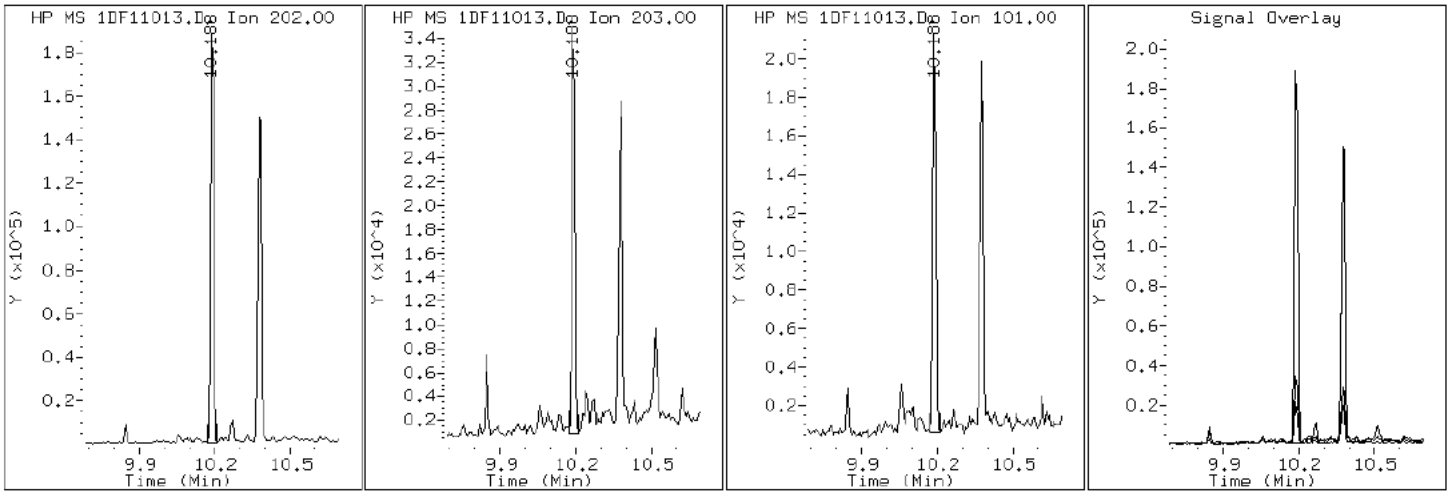
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

16 Fluoranthene



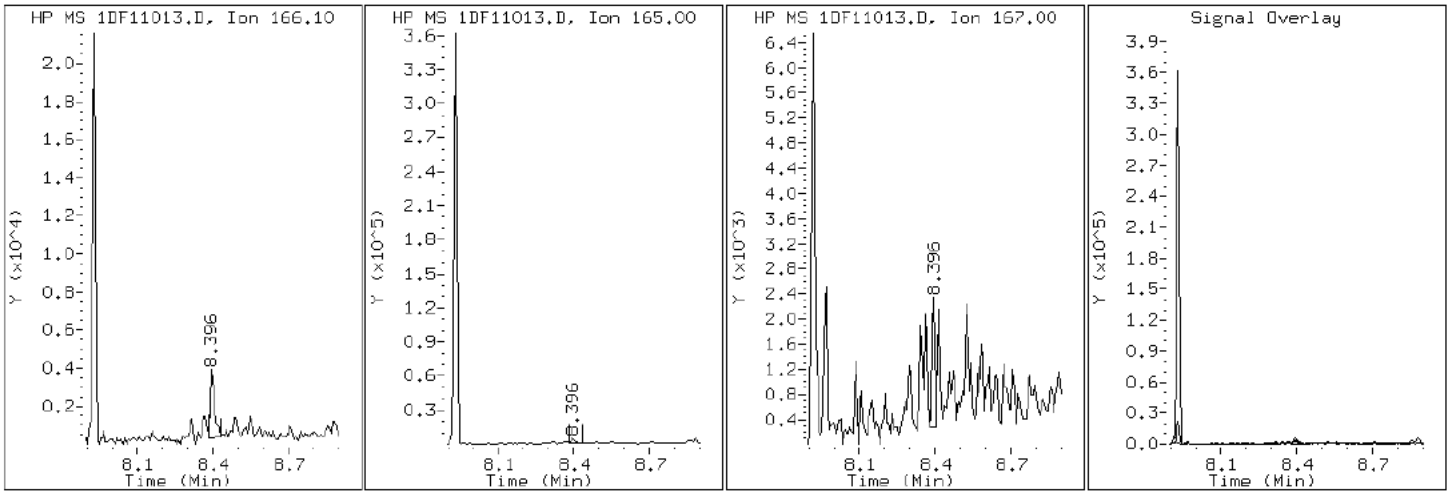
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

10 Fluorene



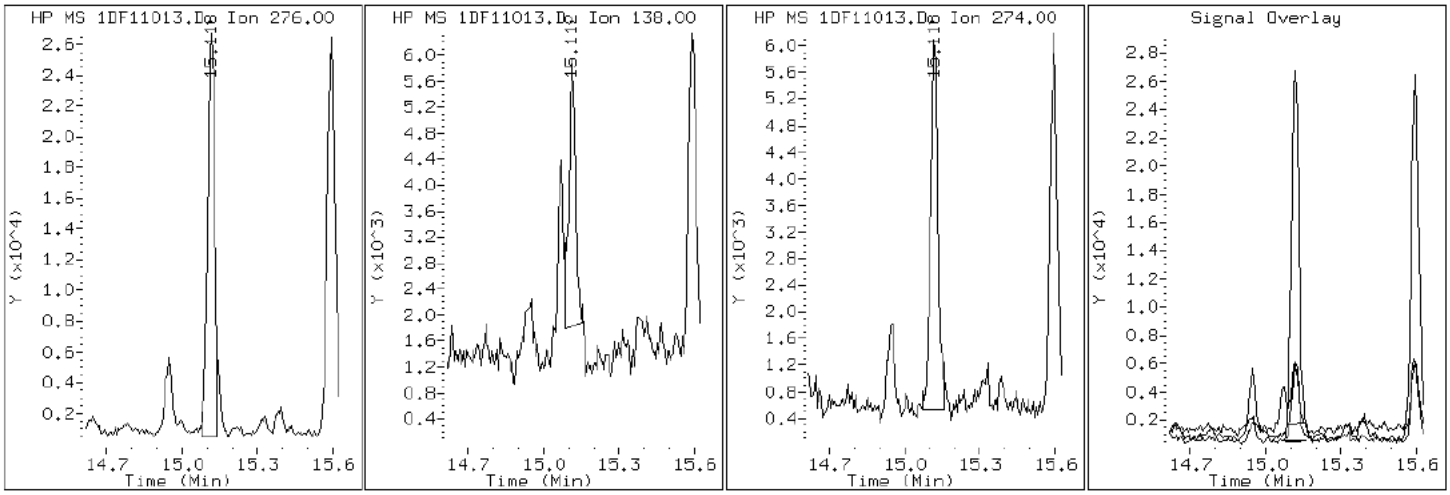
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

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



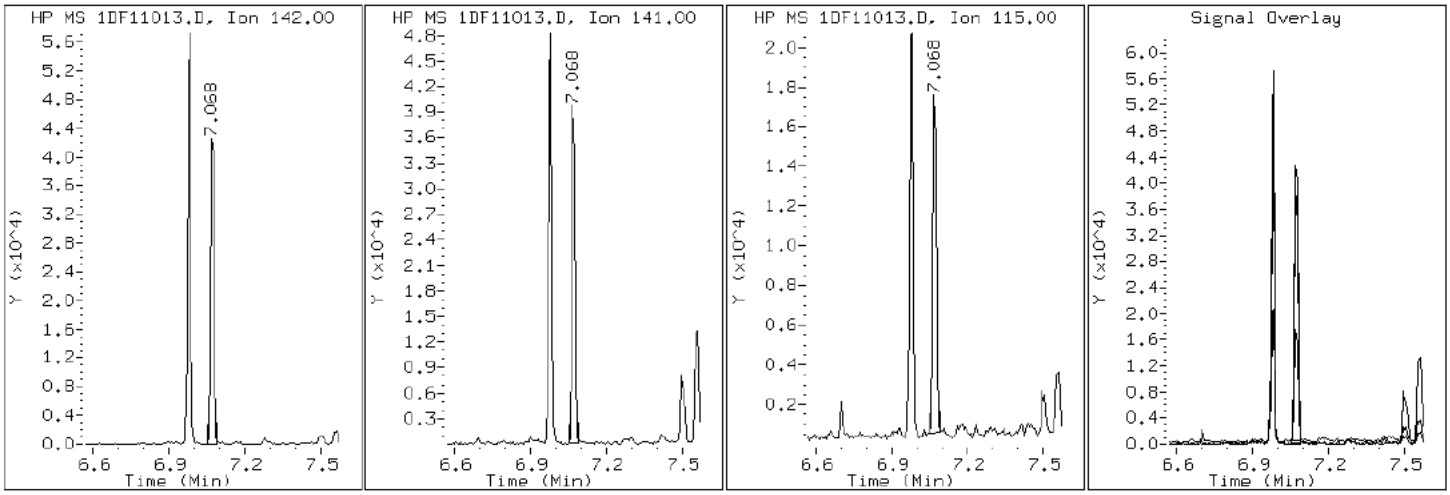
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

4 1-Methylnaphthalene



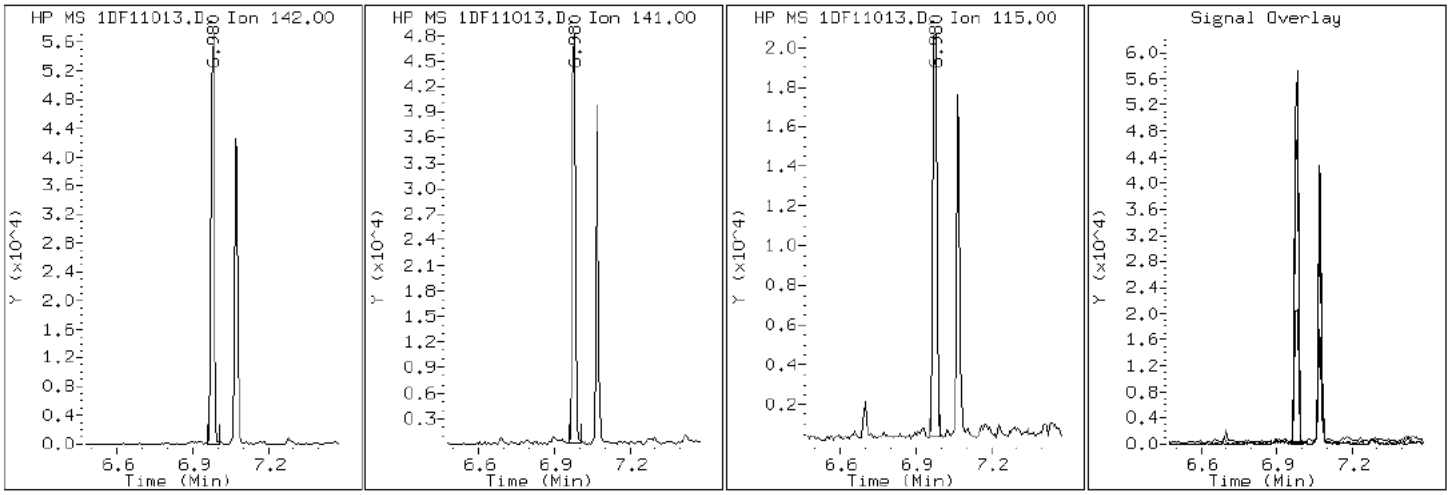
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

3 2-Methylnaphthalene



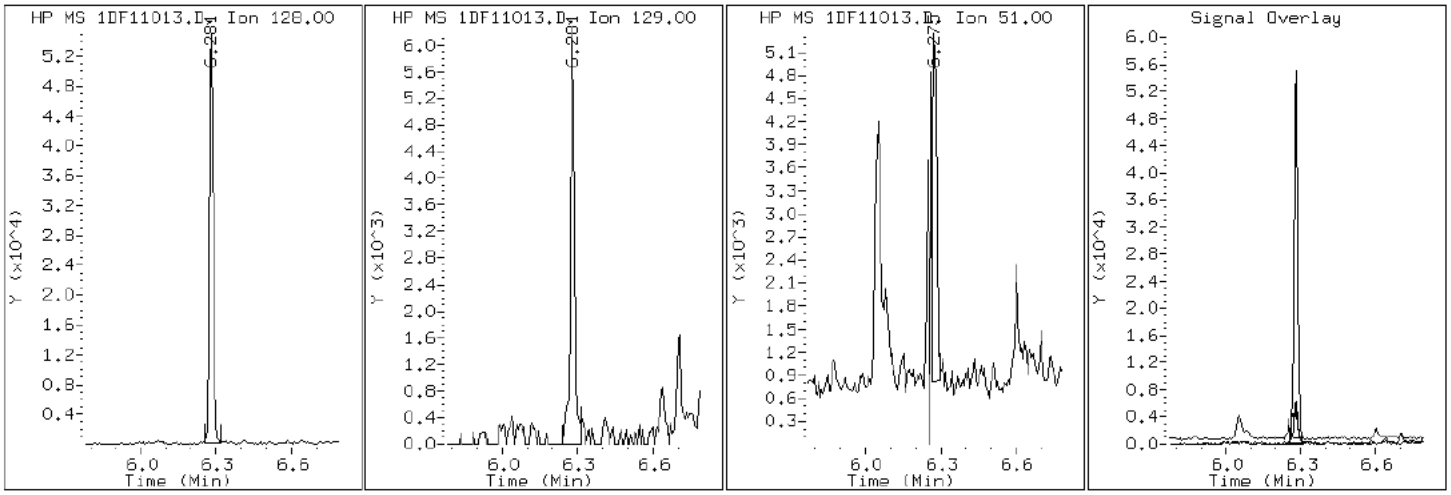
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

2 Naphthalene



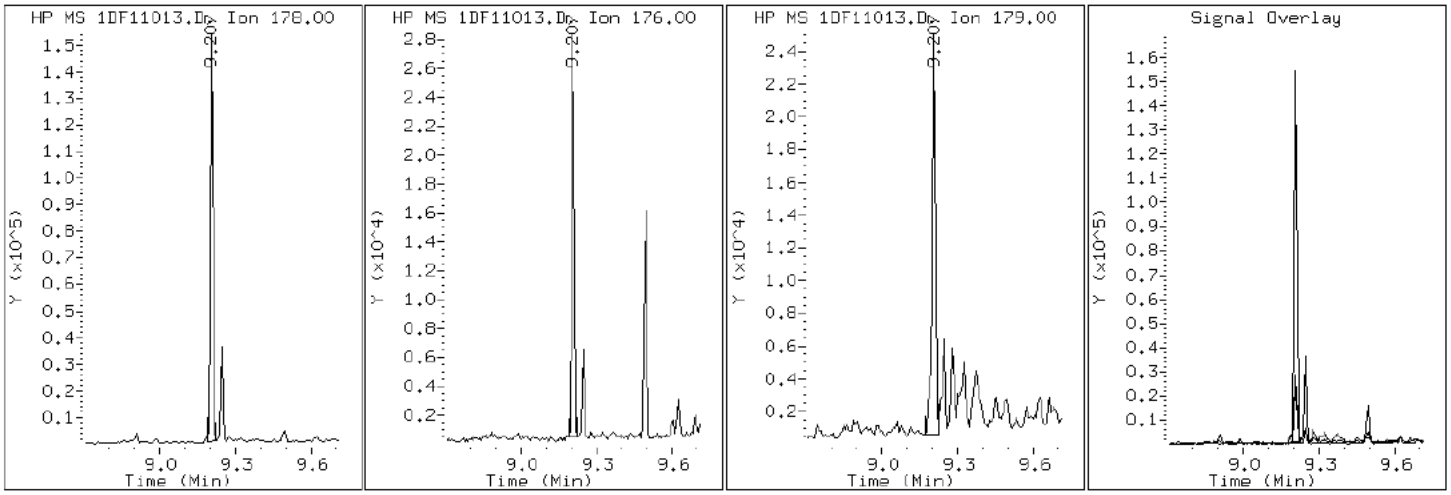
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

12 Phenanthrene



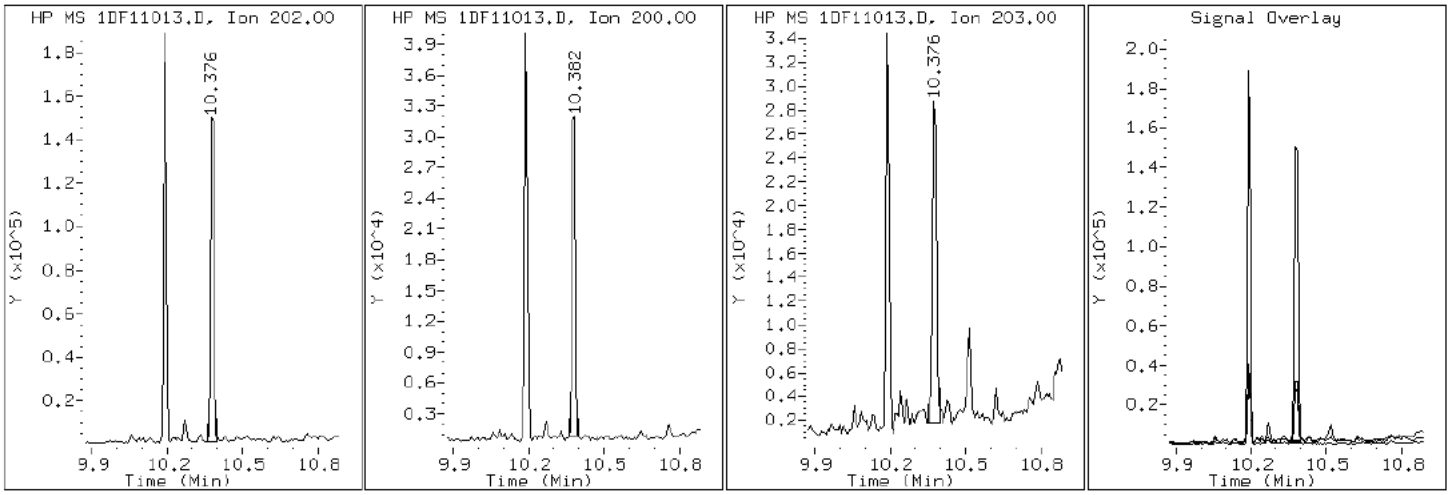
Data File: 1DF11013.D

Date: 11-JUN-2013 15:46

Client ID: FM0308A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-10-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11013.D
Inj. Date and Time: 11-JUN-2013 15:46
Instrument ID: BSMSD.i
Client ID: FM0308A-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

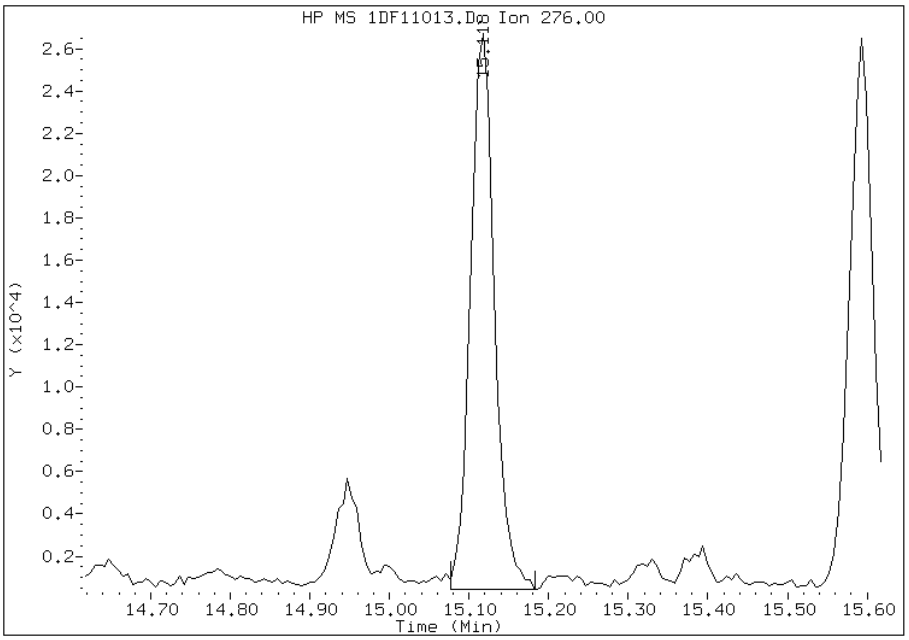
Processing Integration Results

RT: 15.12

Response: 54866

Amount: 1

Conc: 71



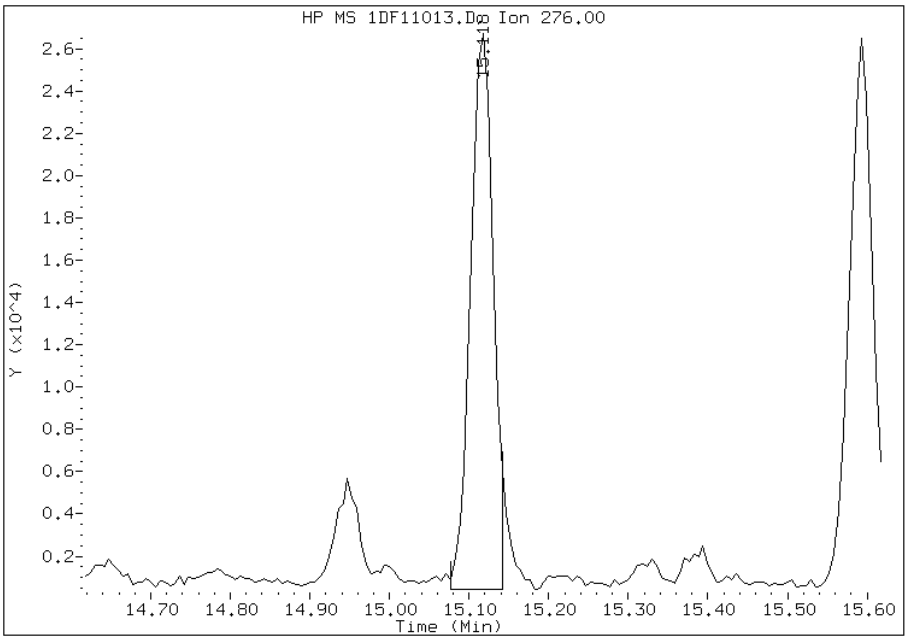
Manual Integration Results

RT: 15.12

Response: 51805

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308B-CS | Lab Sample ID: 680-90855-11

Matrix: Solid | Lab File ID: 1DF11014.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:20

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.12(g) | Date Analyzed: 06/11/2013 16:08

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

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

% Moisture: 12.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	13	J	45	5.6
120-12-7	Anthracene	14		9.5	4.7
56-55-3	Benzo[a]anthracene	50		9.0	4.4
50-32-8	Benzo[a]pyrene	56		12	5.9
205-99-2	Benzo[b]fluoranthene	91		14	6.9
191-24-2	Benzo[g,h,i]perylene	43		23	5.0
207-08-9	Benzo[k]fluoranthene	29		9.0	4.1
218-01-9	Chrysene	71		10	5.1
53-70-3	Dibenz(a,h)anthracene	18	J	23	4.6
206-44-0	Fluoranthene	84		23	4.5
86-73-7	Fluorene	5.1	J	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	47		23	8.0
90-12-0	1-Methylnaphthalene	29	J	45	5.0
91-57-6	2-Methylnaphthalene	44	J	45	8.0
91-20-3	Naphthalene	38	J	45	5.0
85-01-8	Phenanthrene	70		9.0	4.4
129-00-0	Pyrene	72		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11014.D
Lab Smp Id: 680-90855-A-11-A Client Smp ID: FM0308B-CS
Inj Date : 11-JUN-2013 16:08
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-11-a
Misc Info : 680-90855-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 14
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	15.120	Weight Extracted
M	11.980	% 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	6.260	6.260	(1.000)	3685230	40.0000	
* 7	Acenaphthene-d10	164	7.928	7.929	(1.000)	2168432	40.0000	
* 11	Phenanthrene-d10	188	9.192	9.192	(1.000)	3433459	40.0000	
$ 15	o-Terphenyl	230	9.497	9.497	(1.033)	288298	5.73145	430
* 19	Chrysene-d12	240	11.559	11.560	(1.000)	3072750	40.0000	
* 24	Perylene-d12	264	13.475	13.469	(1.000)	2726058	40.0000	
2	Naphthalene	128	6.277	6.284	(1.003)	45649	0.50230	38
3	2-Methylnaphthalene	142	6.977	6.977	(1.115)	33870	0.58533	44
4	1-Methylnaphthalene	142	7.071	7.071	(1.130)	23057	0.38705	29
6	Acenaphthylene	152	7.799	7.799	(0.984)	15448	0.17182	13
10	Fluorene	166	8.398	8.399	(1.059)	4358	0.06753	5.1
12	Phenanthrene	178	9.209	9.210	(1.002)	86666	0.93200	70
13	Anthracene	178	9.244	9.251	(1.006)	17221	0.19087	14
16	Fluoranthene	202	10.190	10.191	(1.109)	105895	1.11314	84

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.378	10.379	(0.898)	85870	0.95451	72
18 Benzo(a)anthracene	228	11.542	11.536	(0.998)	60725	0.66590	50
20 Chrysene	228	11.583	11.583	(1.002)	77670	0.94584	71
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.957)	82753	1.21172	91
22 Benzo(k)fluoranthene	252	12.934	12.940	(0.960)	27533	0.38498	29
23 Benzo(a)pyrene	252	13.363	13.369	(0.992)	43379	0.74007	56
25 Indeno(1,2,3-cd)pyrene	276	15.114	15.120	(1.122)	34230	0.63111	47(M)
26 Dibenzo(a,h)anthracene	278	15.143	15.156	(1.124)	11321	0.24573	18
27 Benzo(g,h,i)perylene	276	15.596	15.602	(1.157)	35097	0.56700	43

QC Flag Legend

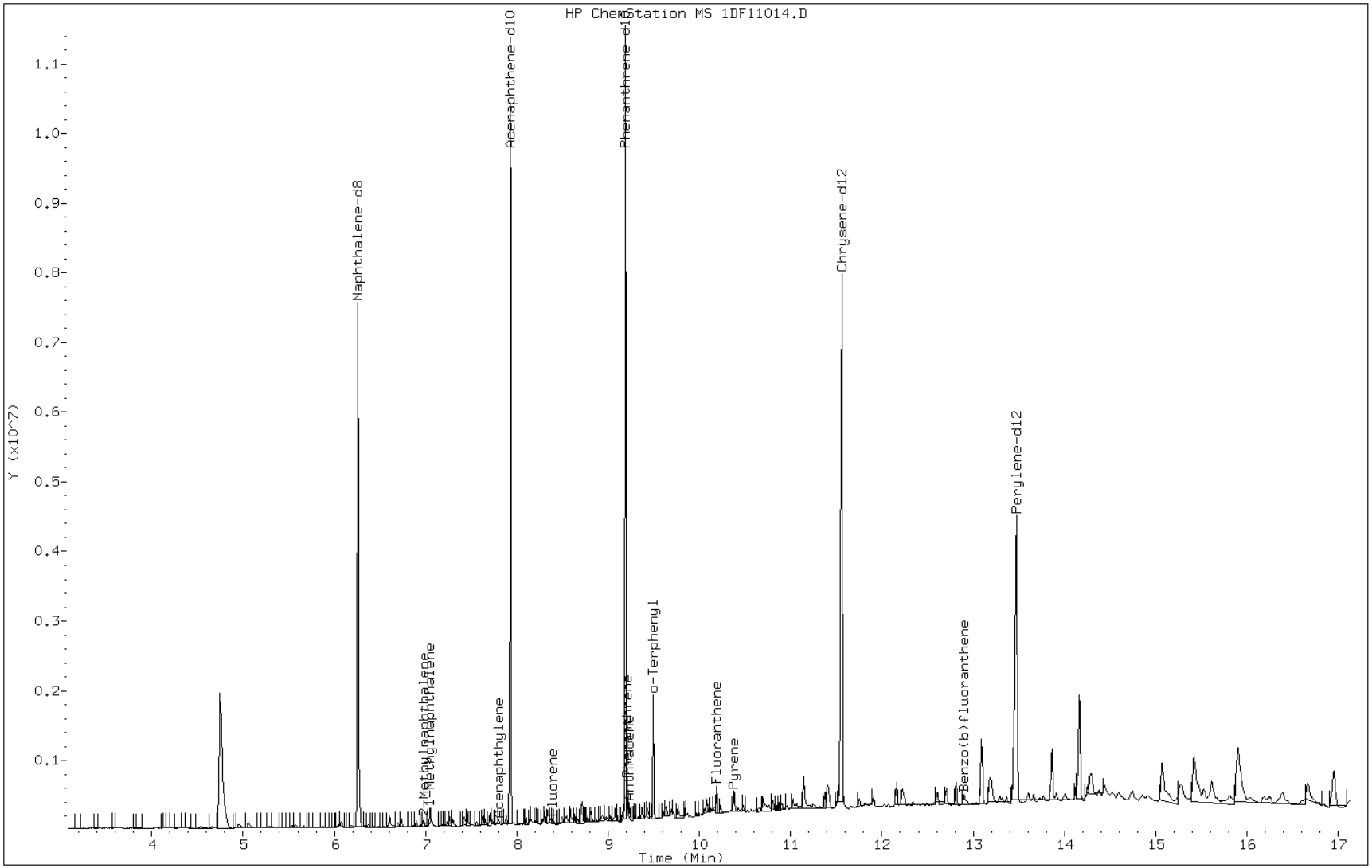
M - Compound response manually integrated.

Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC



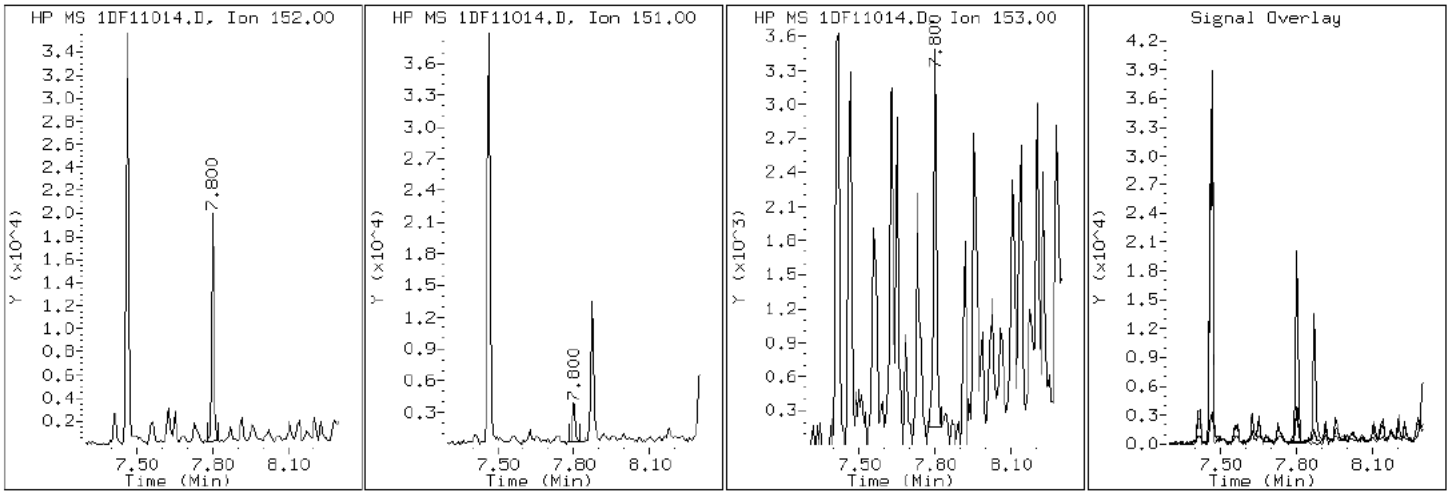
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

6 Acenaphthylene



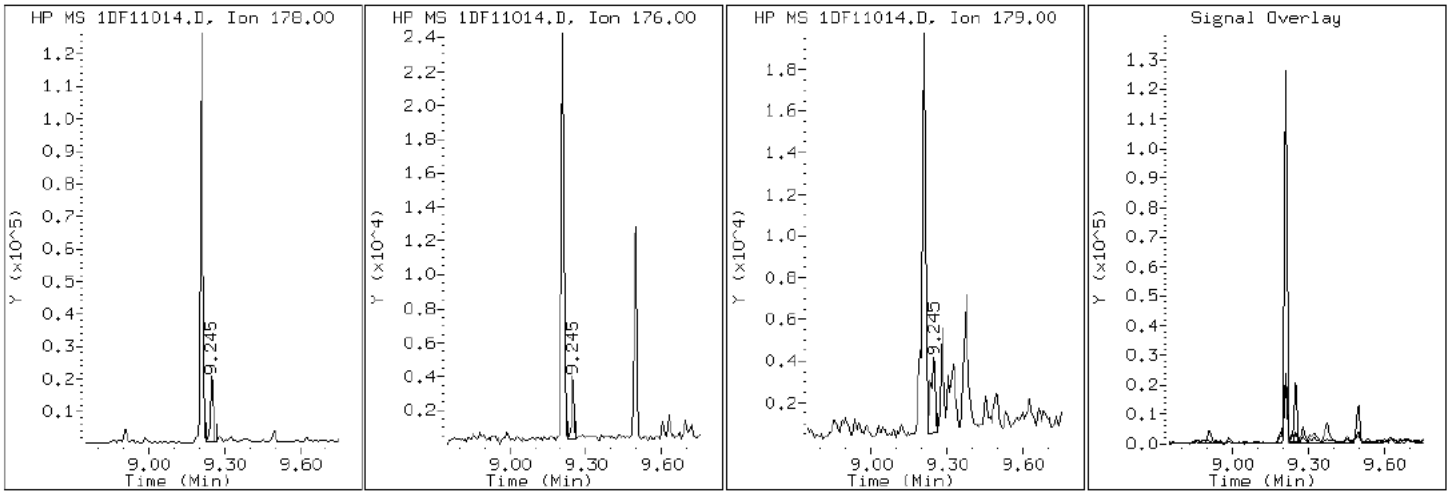
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

13 Anthracene



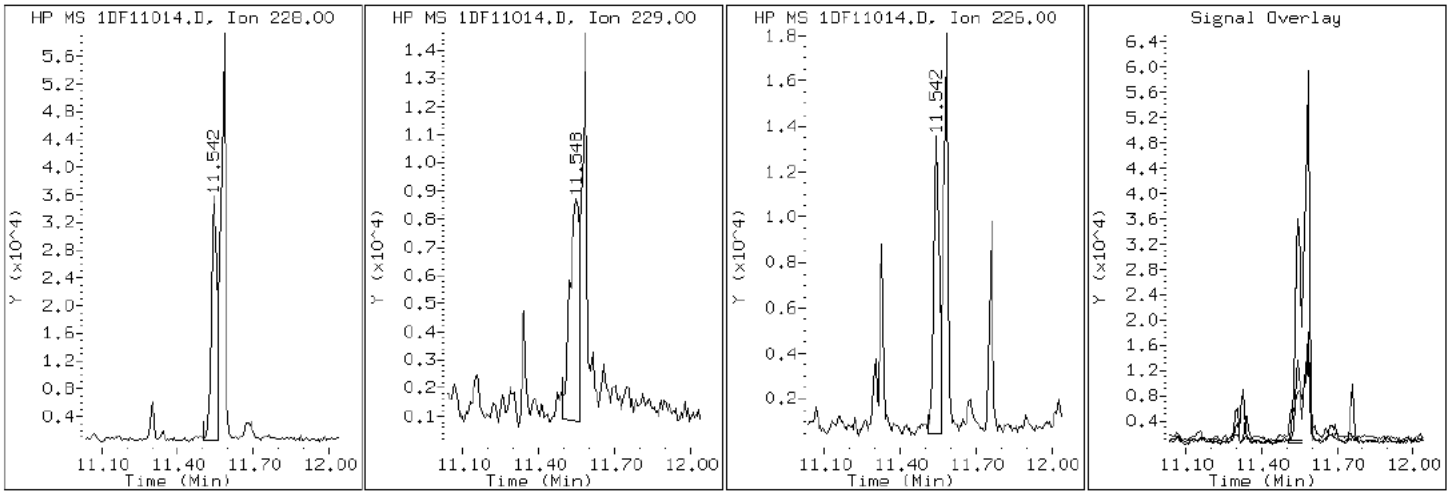
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

18 Benzo(a)anthracene



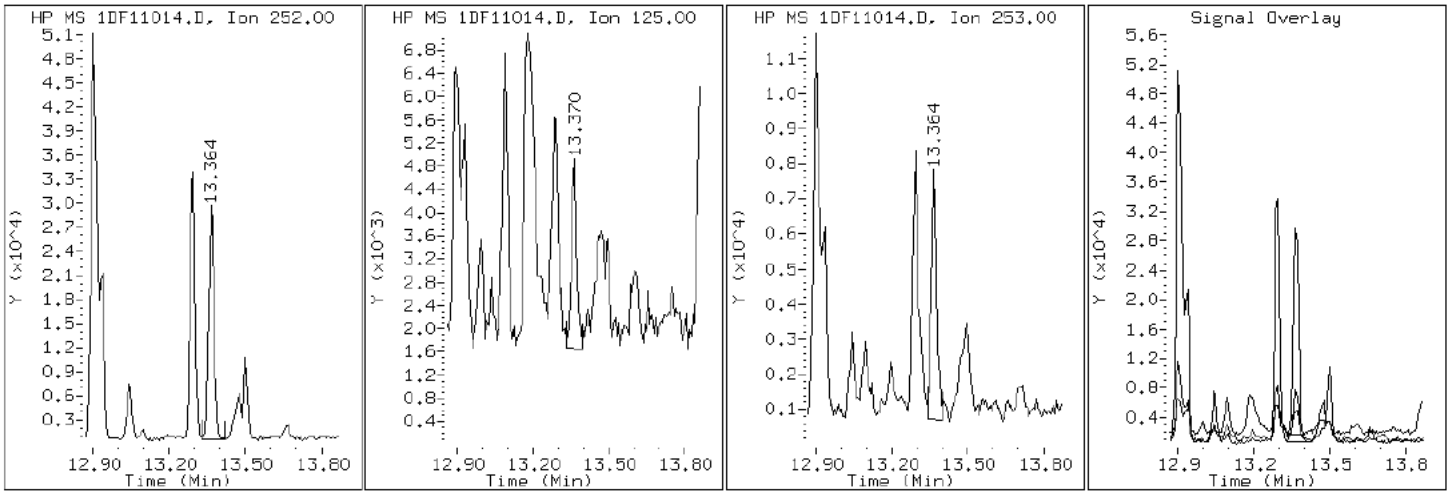
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

23 Benzo(a)pyrene



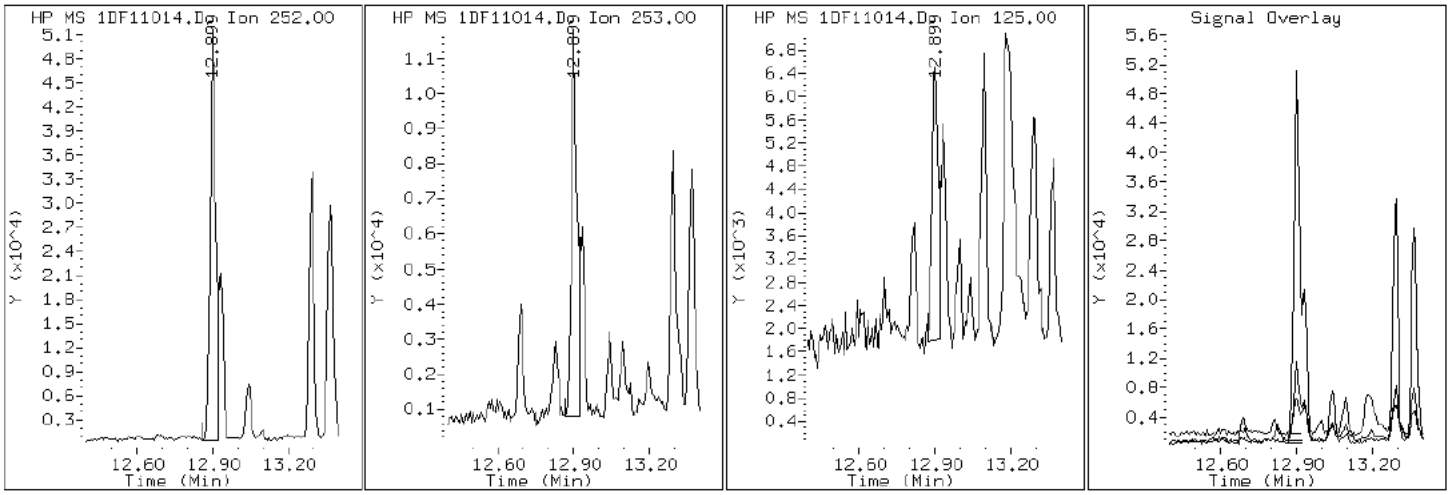
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

21 Benzo(b)fluoranthene



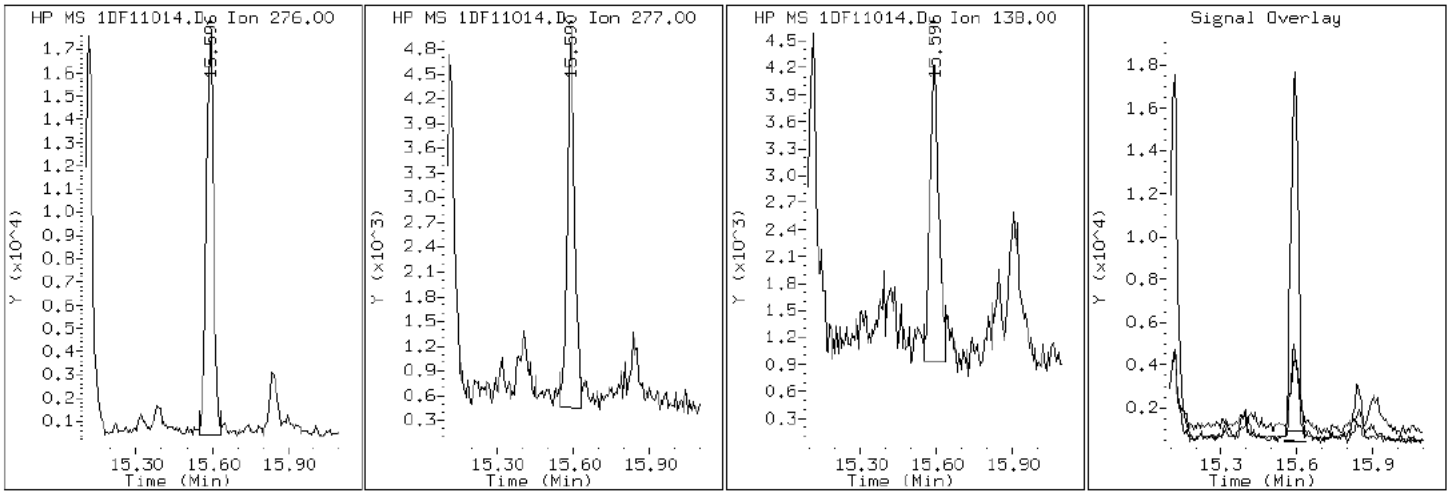
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

27 Benzo(g,h,i)perylene



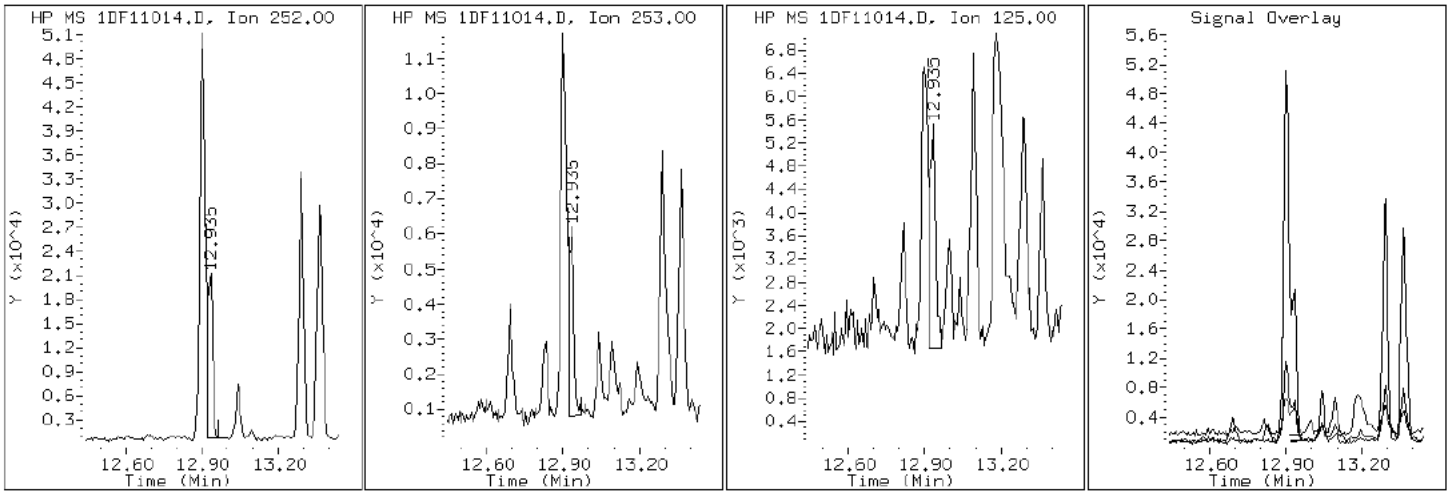
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

22 Benzo(k)fluoranthene



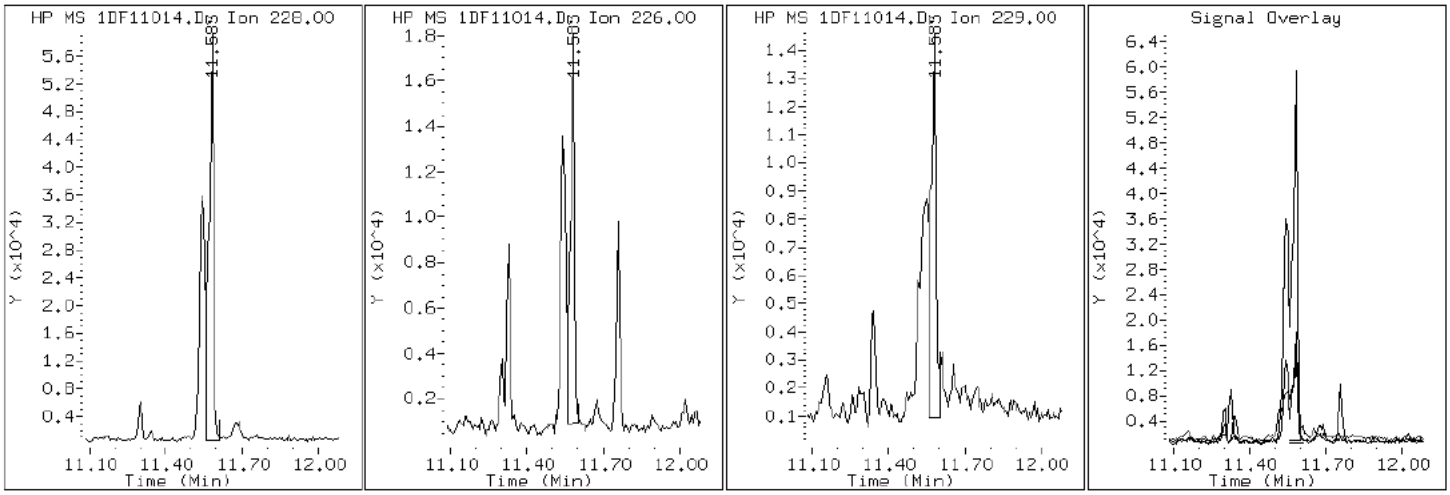
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

20 Chrysene



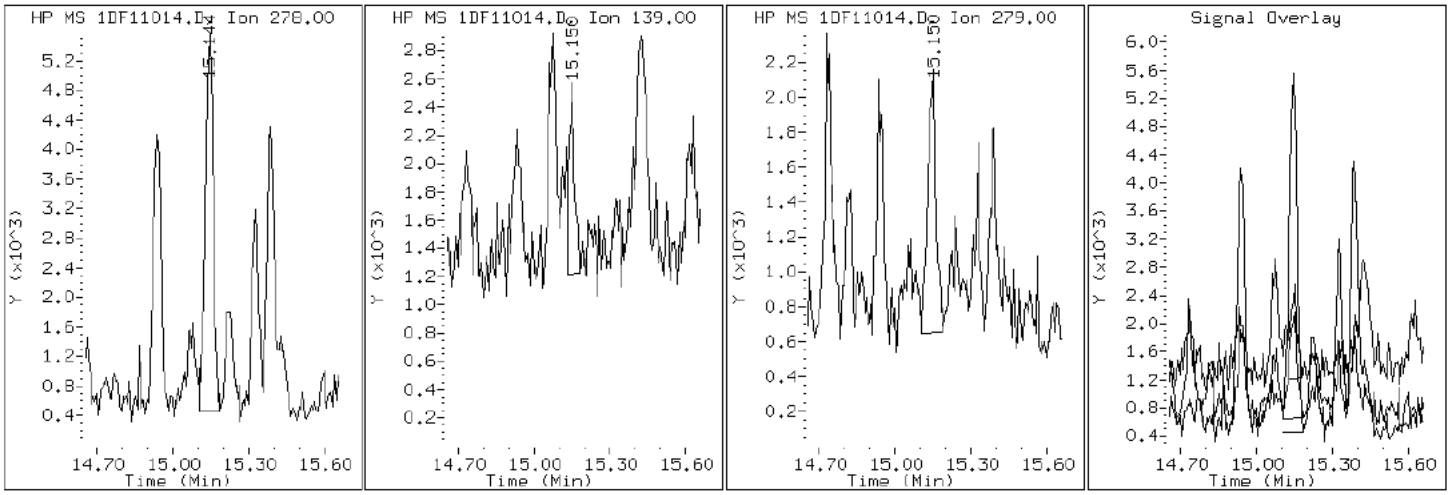
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

26 Dibenzo(a,h)anthracene



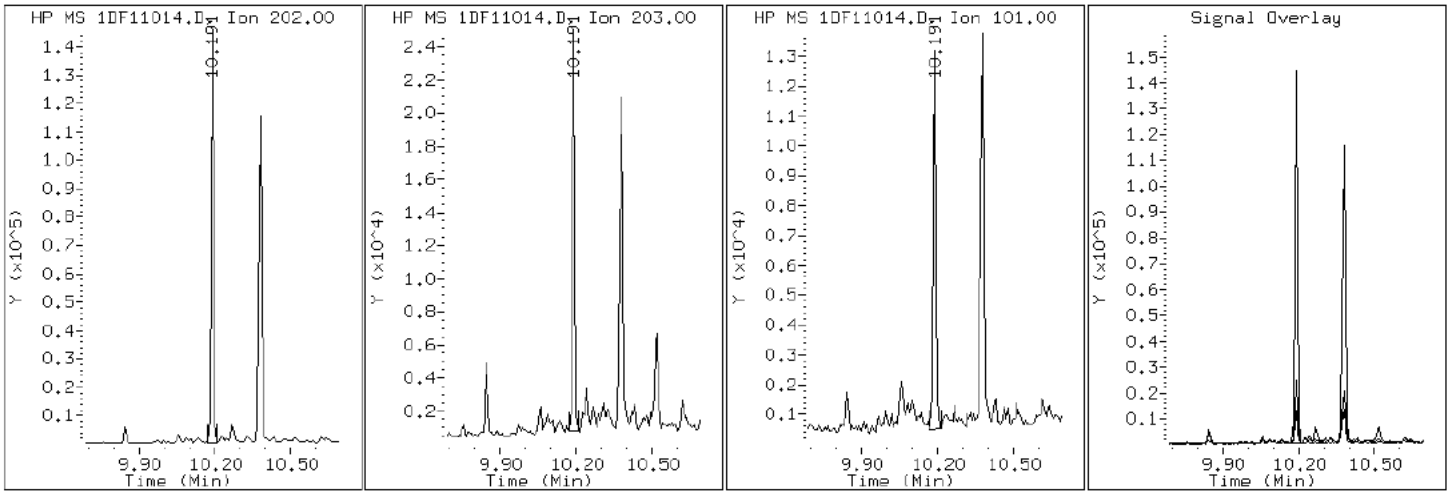
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

16 Fluoranthene



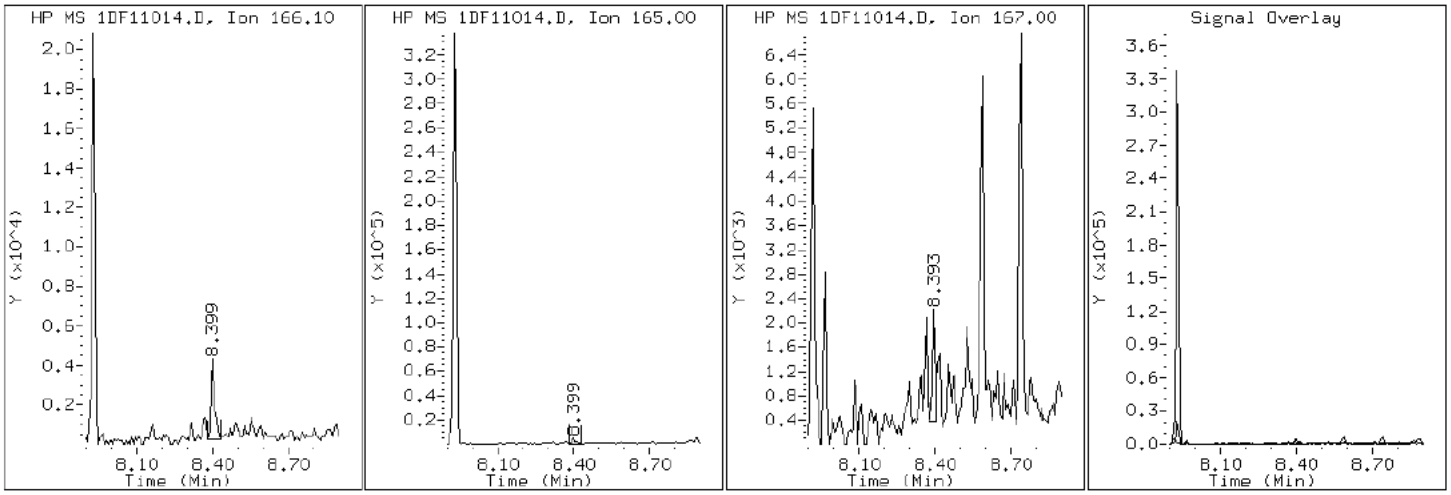
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

10 Fluorene



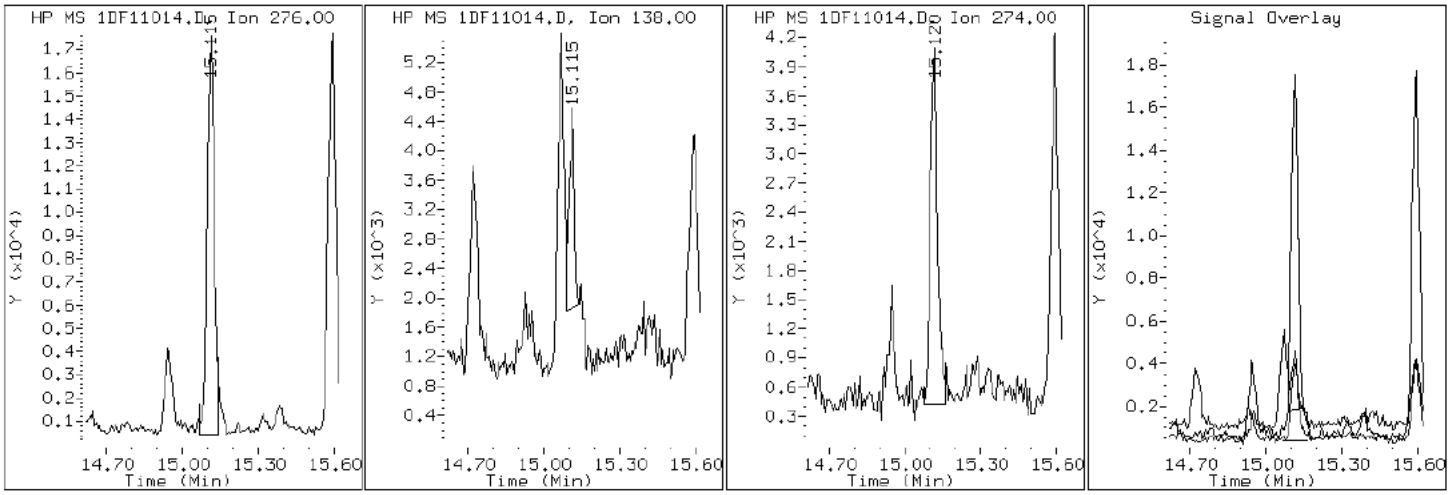
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

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



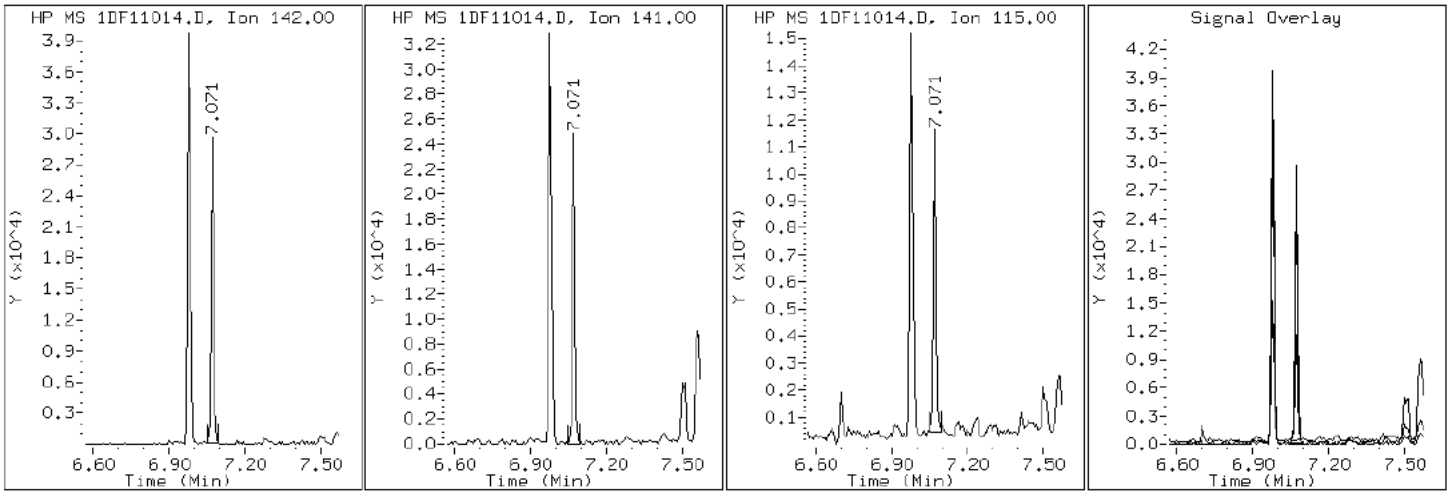
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

4 1-Methylnaphthalene



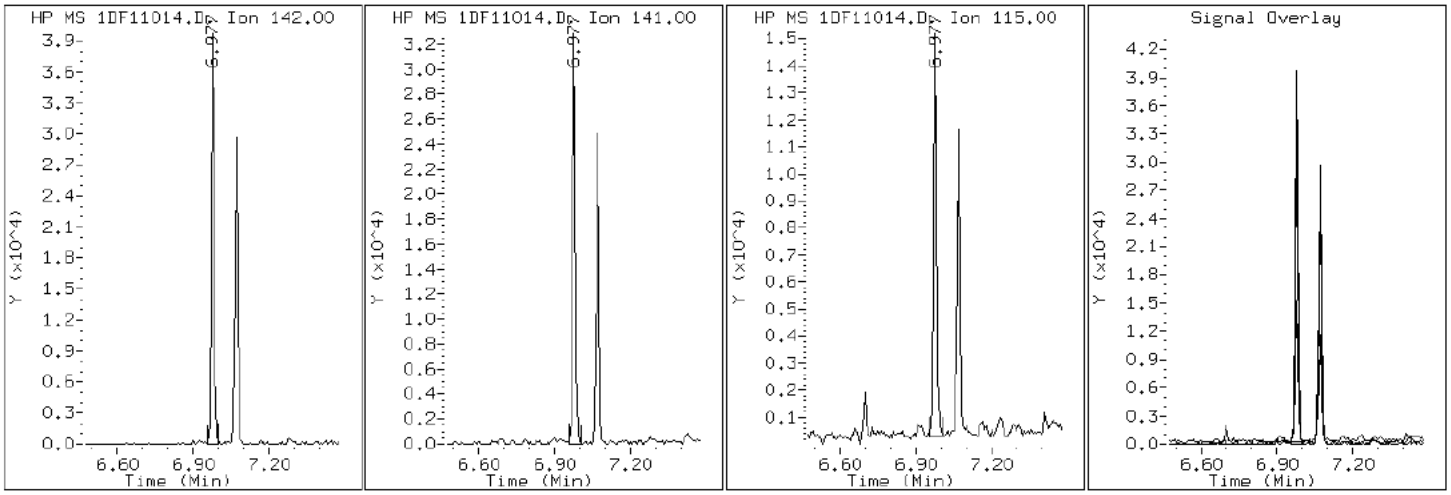
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

3 2-Methylnaphthalene



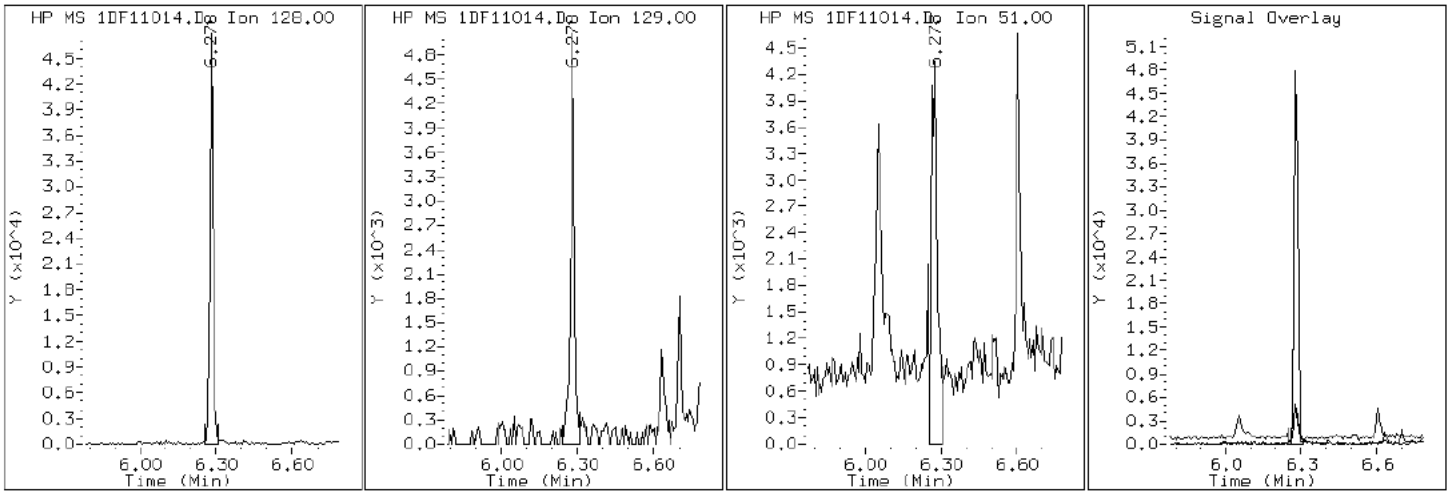
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

2 Naphthalene



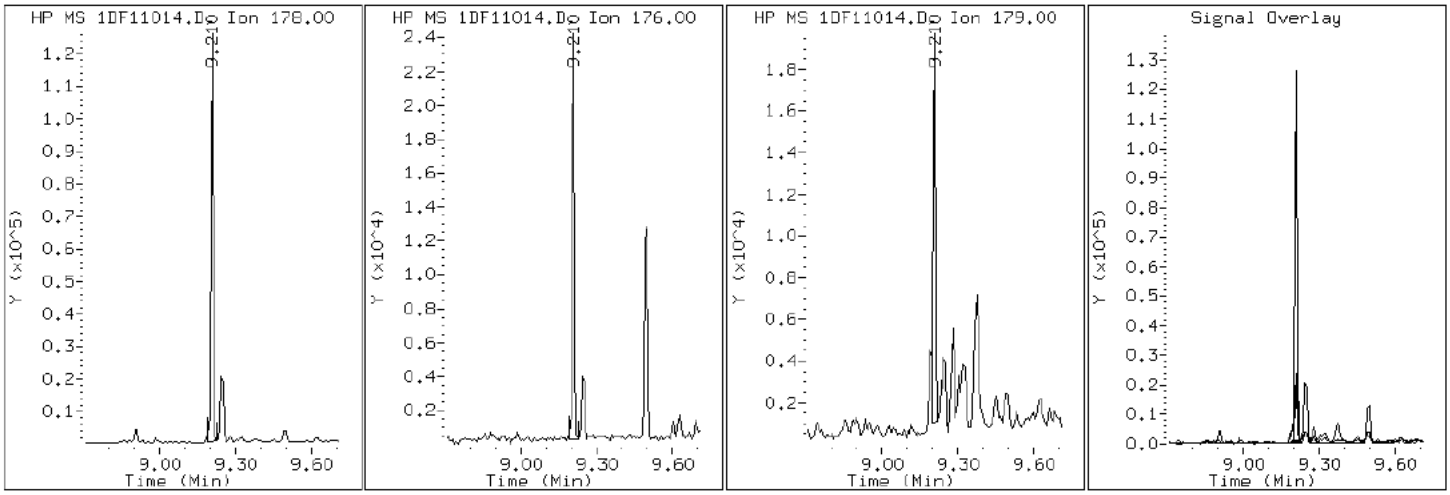
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

12 Phenanthrene



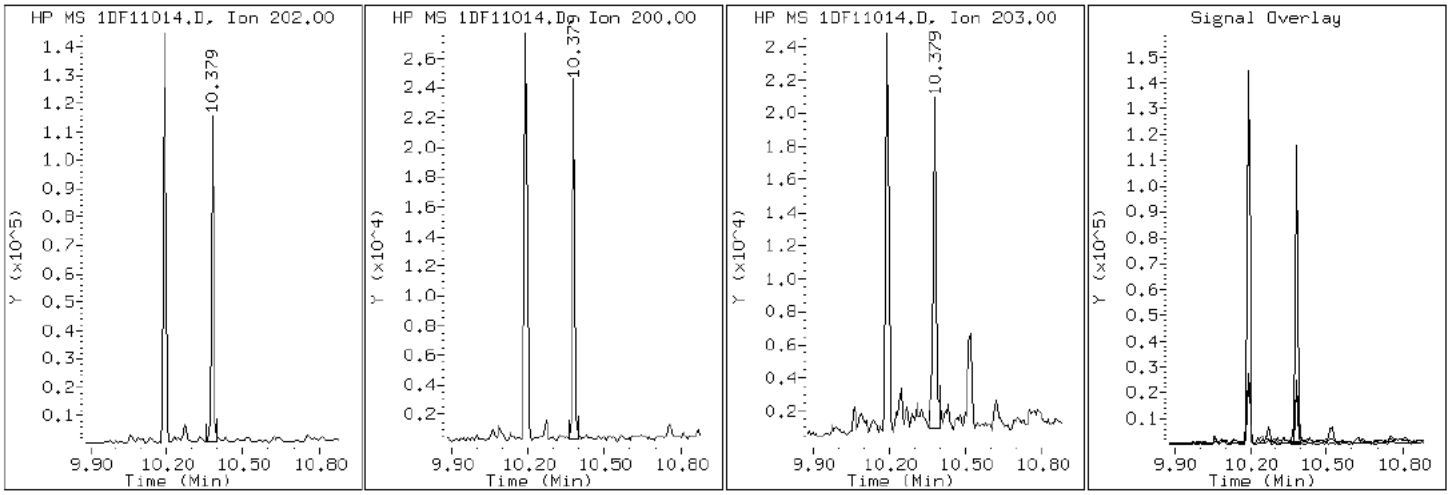
Data File: 1DF11014.D

Date: 11-JUN-2013 16:08

Client ID: FM0308B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-11-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11014.D
Inj. Date and Time: 11-JUN-2013 16:08
Instrument ID: BSMSD.i
Client ID: FM0308B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

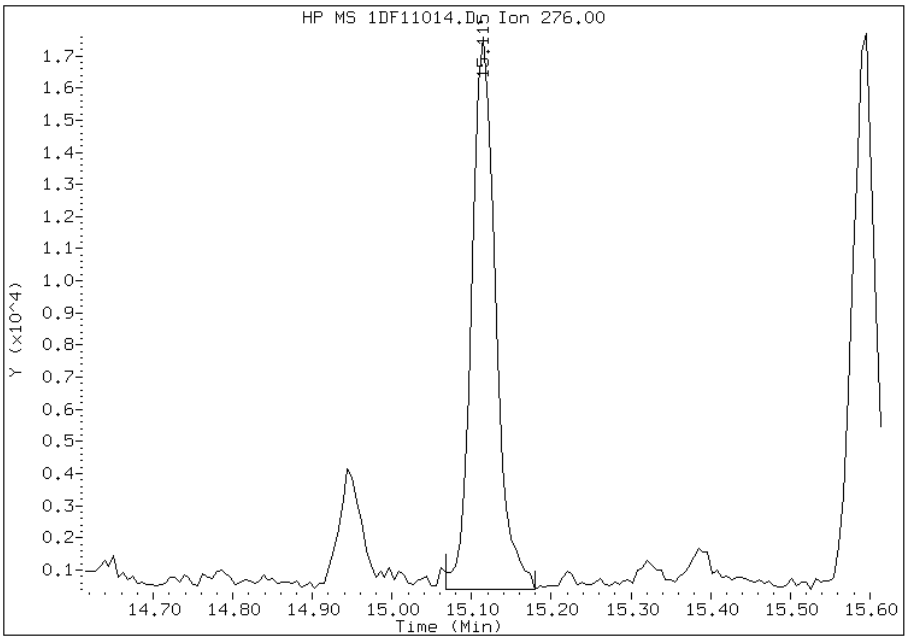
Processing Integration Results

RT: 15.11

Response: 35886

Amount: 1

Conc: 49



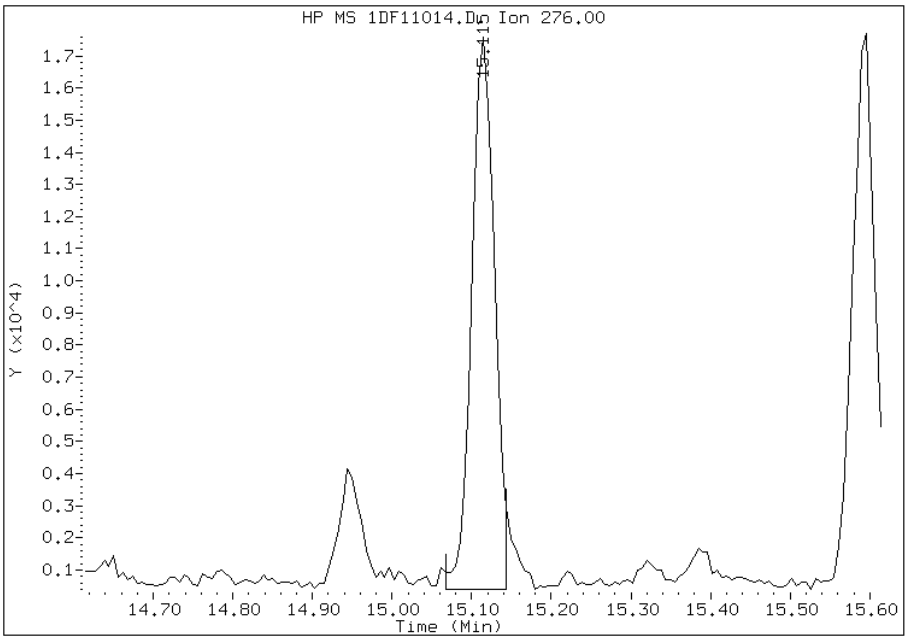
Manual Integration Results

RT: 15.11

Response: 34230

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308C-CS | Lab Sample ID: 680-90855-12

Matrix: Solid | Lab File ID: 1DF11015.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:33

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 14.92(g) | Date Analyzed: 06/11/2013 16:31

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

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

% Moisture: 10.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	9.2	J	45	5.6
120-12-7	Anthracene	13		9.4	4.7
56-55-3	Benzo[a]anthracene	58		9.0	4.4
50-32-8	Benzo[a]pyrene	65		12	5.8
205-99-2	Benzo[b]fluoranthene	110		14	6.8
191-24-2	Benzo[g,h,i]perylene	50		22	4.9
207-08-9	Benzo[k]fluoranthene	32		9.0	4.0
218-01-9	Chrysene	81		10	5.0
53-70-3	Dibenz(a,h)anthracene	20	J	22	4.6
206-44-0	Fluoranthene	97		22	4.5
86-73-7	Fluorene	7.1	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	52		22	8.0
90-12-0	1-Methylnaphthalene	38	J	45	4.9
91-57-6	2-Methylnaphthalene	63		45	8.0
91-20-3	Naphthalene	53		45	4.9
85-01-8	Phenanthrene	81		9.0	4.4
129-00-0	Pyrene	83		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11015.D
Lab Smp Id: 680-90855-A-12-A Client Smp ID: FM0308C-CS
Inj Date : 11-JUN-2013 16:31
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-12-a
Misc Info : 680-90855-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 15
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	14.920	Weight Extracted
M	10.335	% 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	6.262	6.260	(1.000)	3585128	40.0000	
* 7	Acenaphthene-d10	164	7.931	7.929	(1.000)	2094319	40.0000	
* 11	Phenanthrene-d10	188	9.194	9.192	(1.000)	3316636	40.0000	
$ 15	o-Terphenyl	230	9.494	9.497	(1.033)	271074	5.57885	420
* 19	Chrysene-d12	240	11.562	11.560	(1.000)	2954013	40.0000	
* 24	Perylene-d12	264	13.478	13.469	(1.000)	2707818	40.0000	
2	Naphthalene	128	6.280	6.284	(1.003)	62686	0.70903	53
3	2-Methylnaphthalene	142	6.979	6.977	(1.114)	47279	0.83988	63
4	1-Methylnaphthalene	142	7.073	7.071	(1.129)	29137	0.50277	38
6	Acenaphthylene	152	7.802	7.799	(0.984)	10720	0.12345	9.2
10	Fluorene	166	8.395	8.399	(1.059)	5961	0.09564	7.1
12	Phenanthrene	178	9.206	9.210	(1.001)	97123	1.08124	81
13	Anthracene	178	9.247	9.251	(1.006)	15094	0.17318	13
16	Fluoranthene	202	10.193	10.191	(1.109)	119190	1.29703	97

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.381	10.379	(0.898)	95844	1.10820	83
18 Benzo(a)anthracene	228	11.545	11.536	(0.998)	68172	0.77761	58
20 Chrysene	228	11.580	11.583	(1.002)	85035	1.07716	80
21 Benzo(b)fluoranthene	252	12.902	12.899	(0.957)	99068	1.46039	110
22 Benzo(k)fluoranthene	252	12.931	12.940	(0.959)	30621	0.43105	32
23 Benzo(a)pyrene	252	13.366	13.369	(0.992)	51640	0.86740	65
25 Indeno(1,2,3-cd)pyrene	276	15.117	15.120	(1.122)	38854	0.70006	52(M)
26 Dibenzo(a,h)anthracene	278	15.146	15.156	(1.124)	12369	0.26309	20
27 Benzo(g,h,i)perylene	276	15.599	15.602	(1.157)	41242	0.67077	50

QC Flag Legend

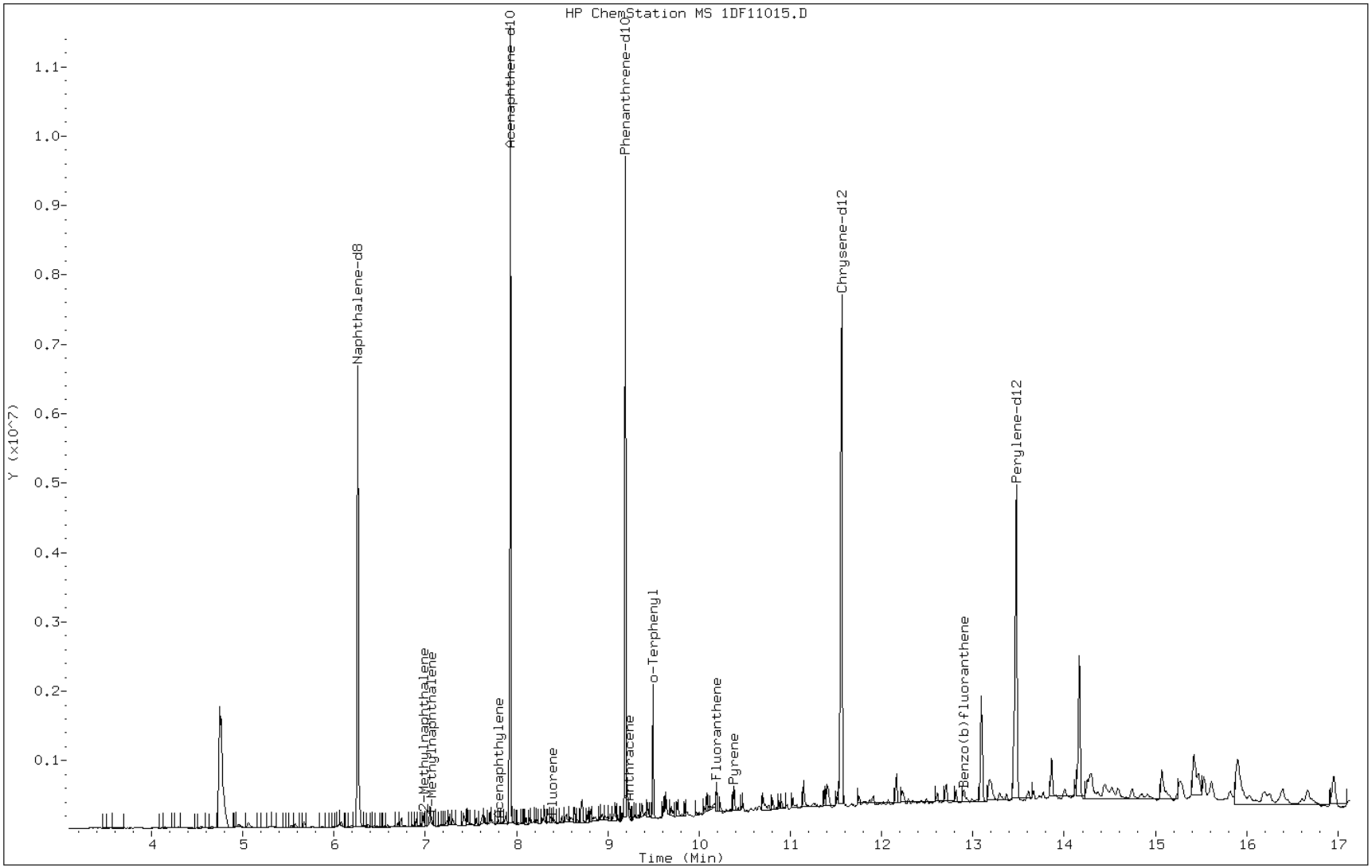
M - Compound response manually integrated.

Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC



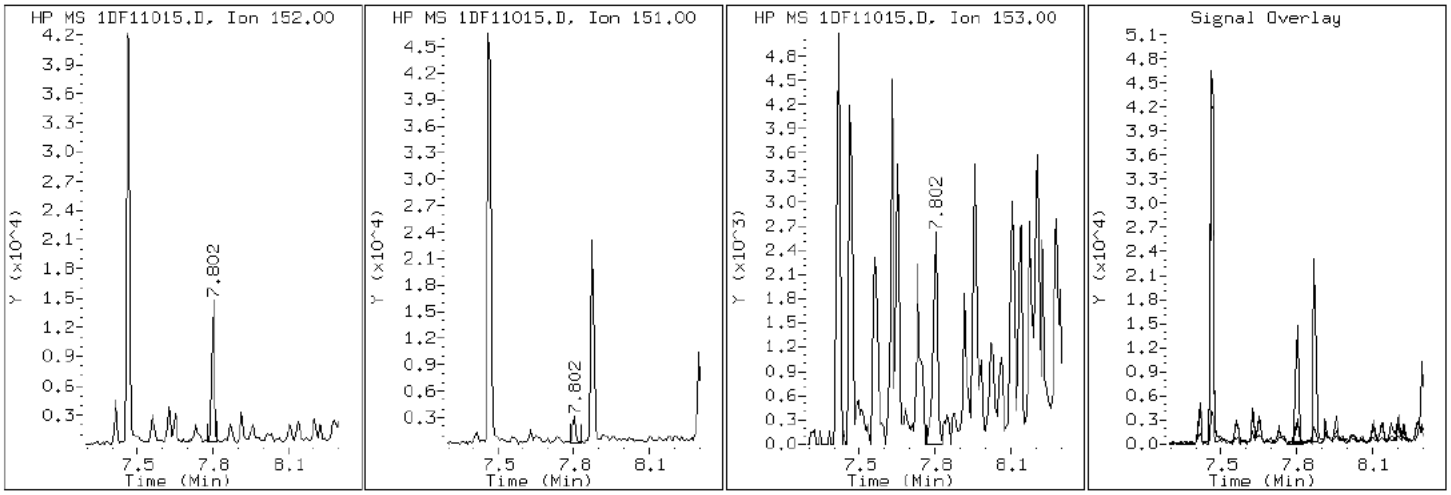
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

6 Acenaphthylene



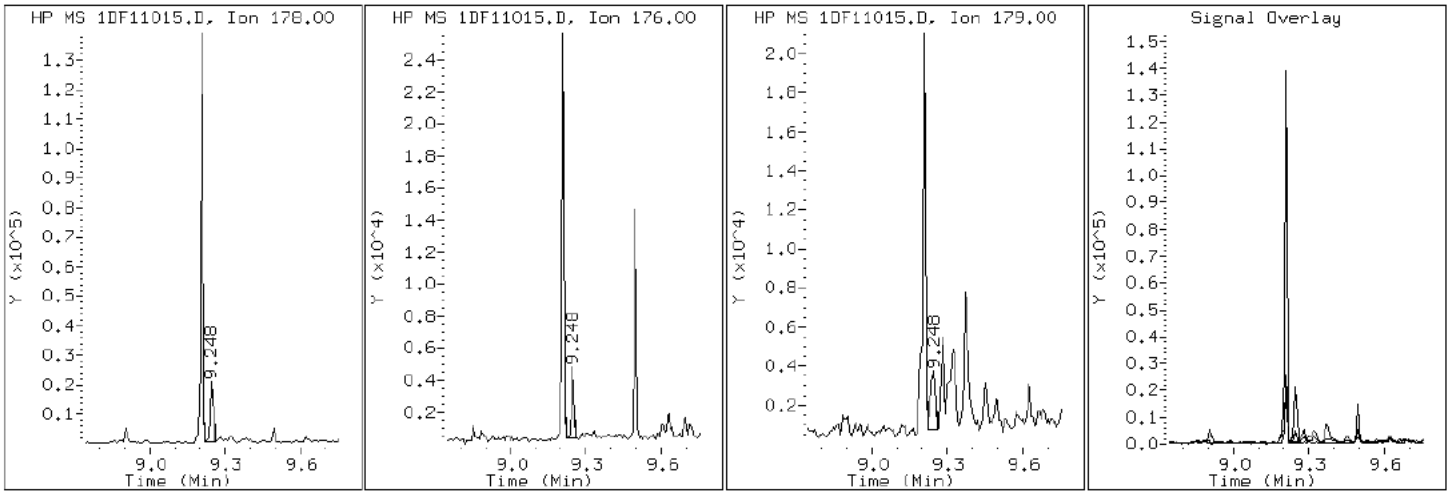
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

13 Anthracene



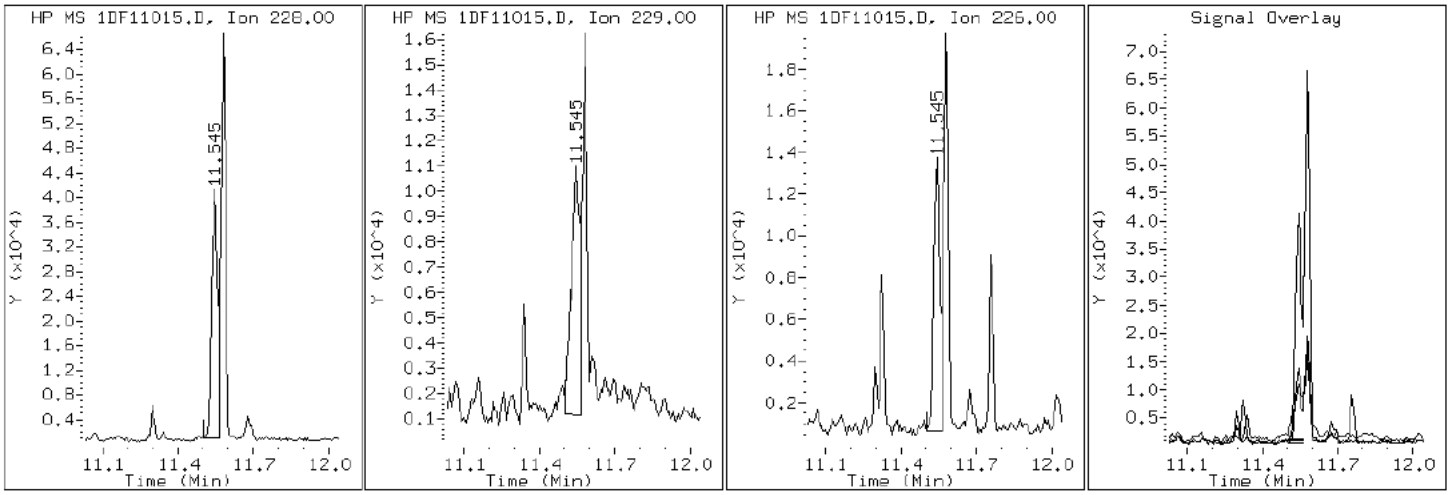
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

18 Benzo(a)anthracene



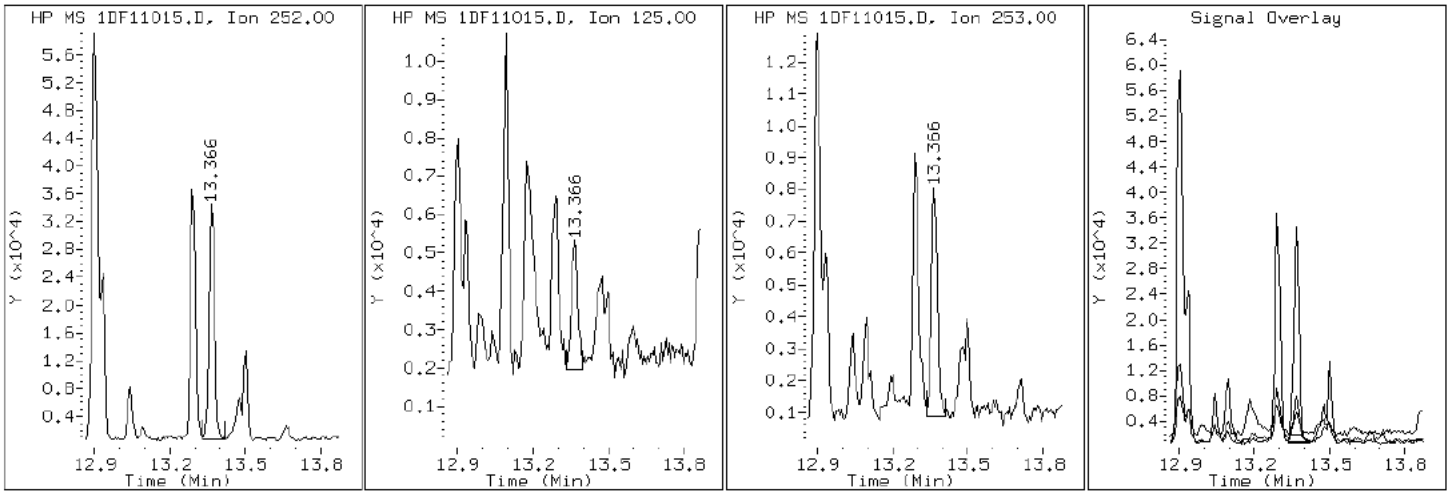
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

23 Benzo(a)pyrene



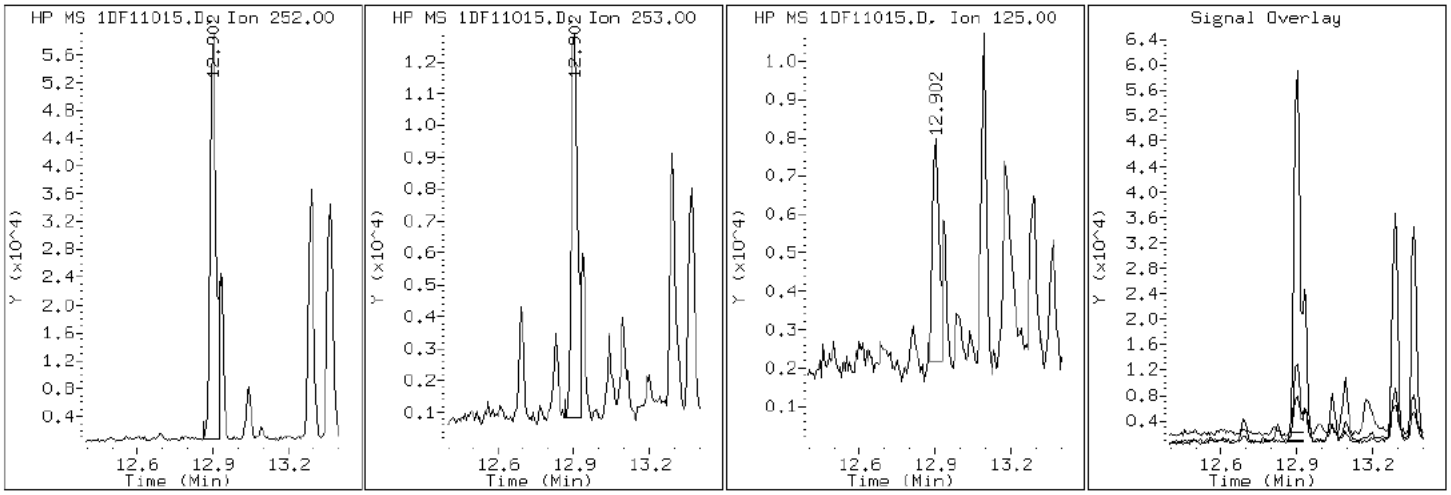
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

21 Benzo(b)fluoranthene



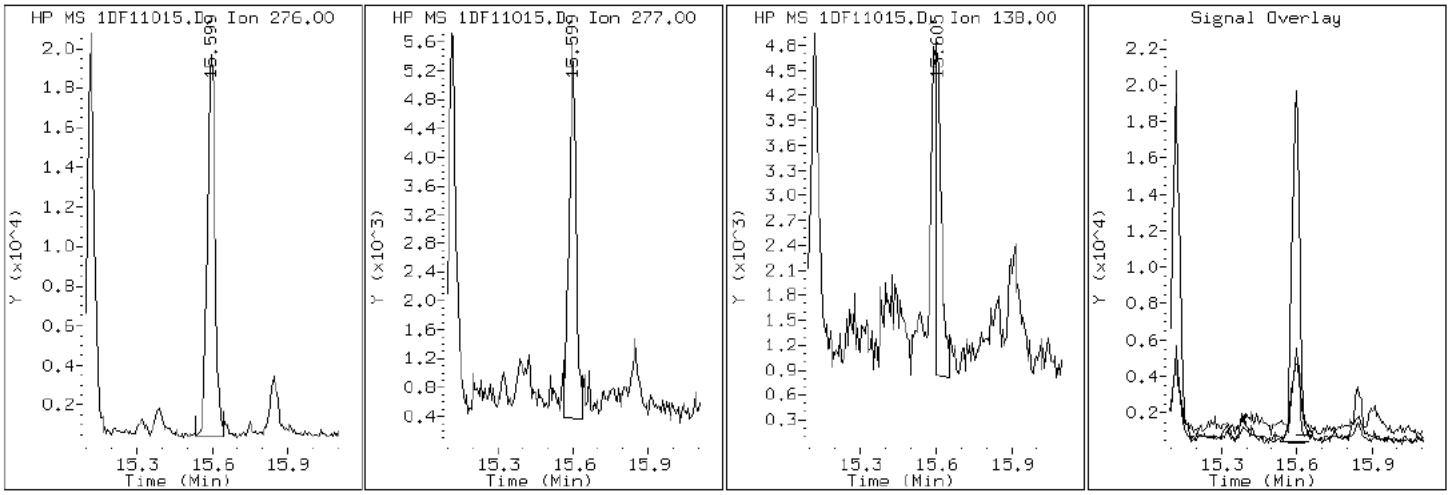
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

27 Benzo(g,h,i)perylene



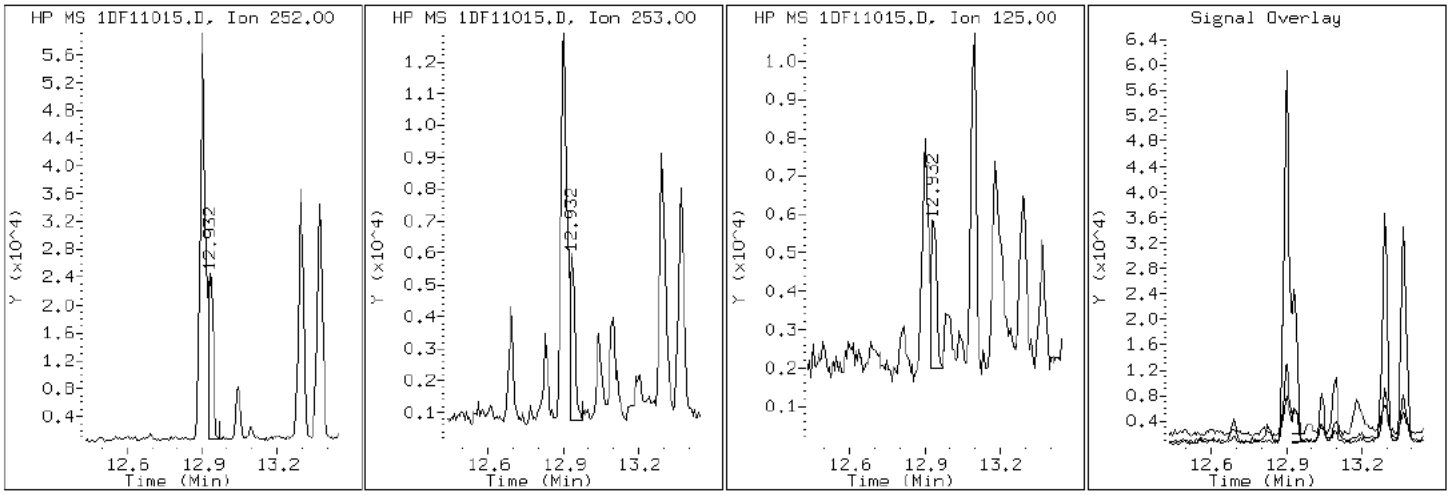
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

22 Benzo(k)fluoranthene



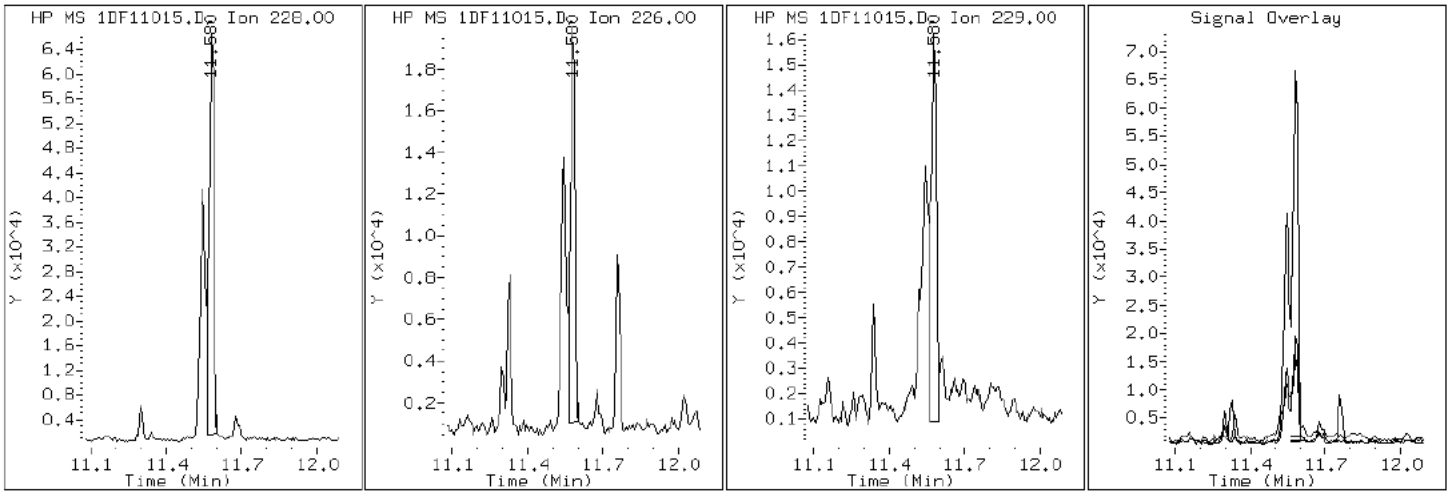
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

20 Chrysene



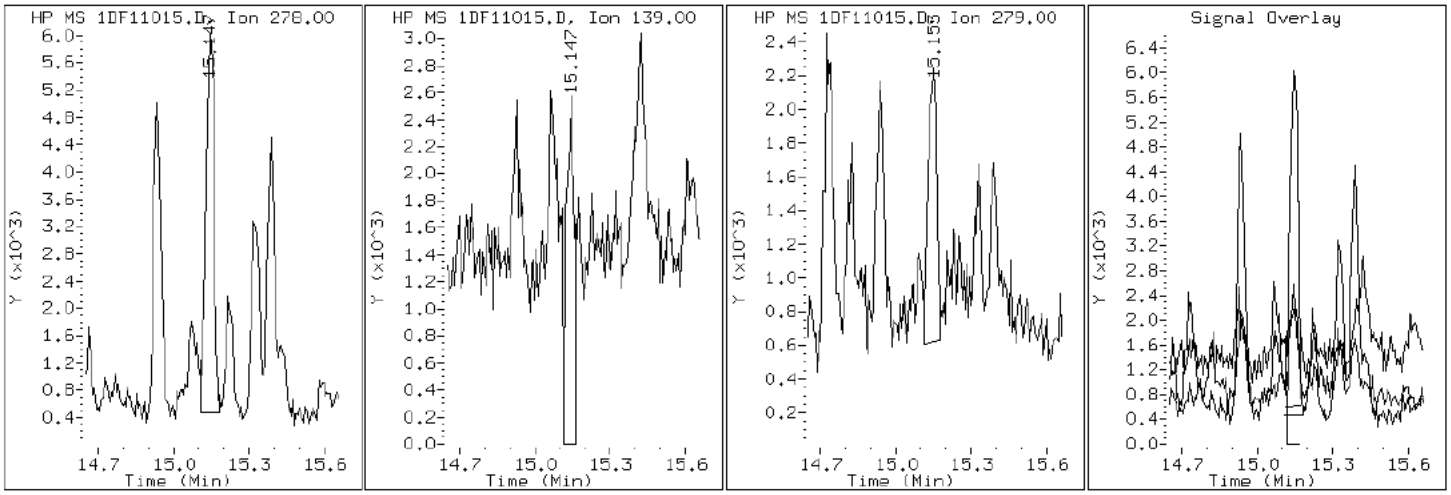
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

26 Dibenzo(a,h)anthracene



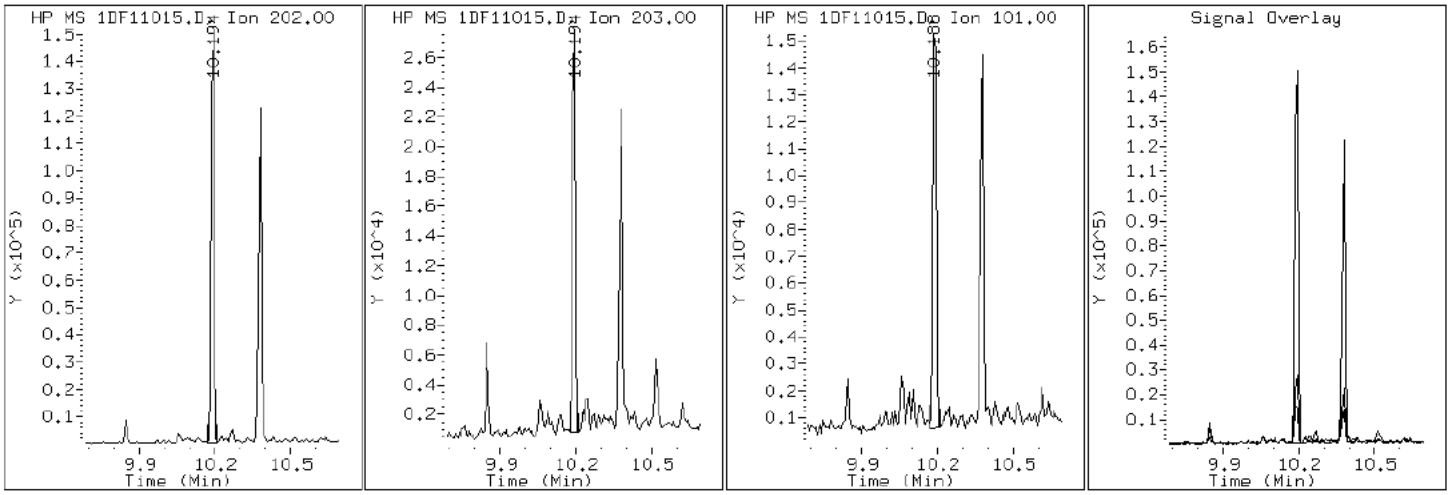
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

16 Fluoranthene



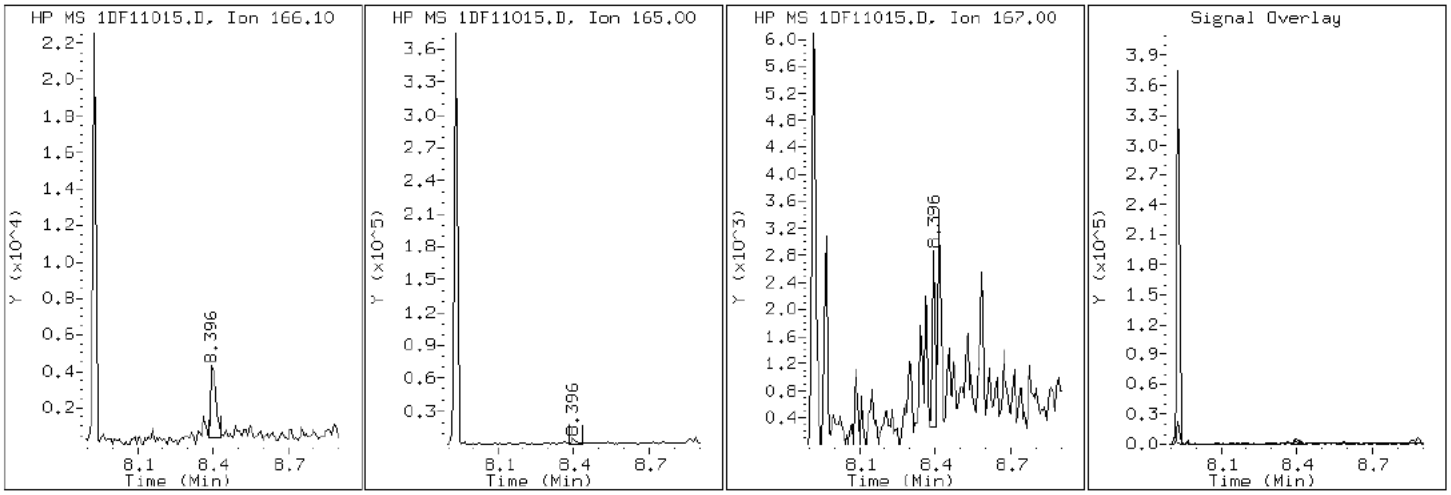
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

10 Fluorene



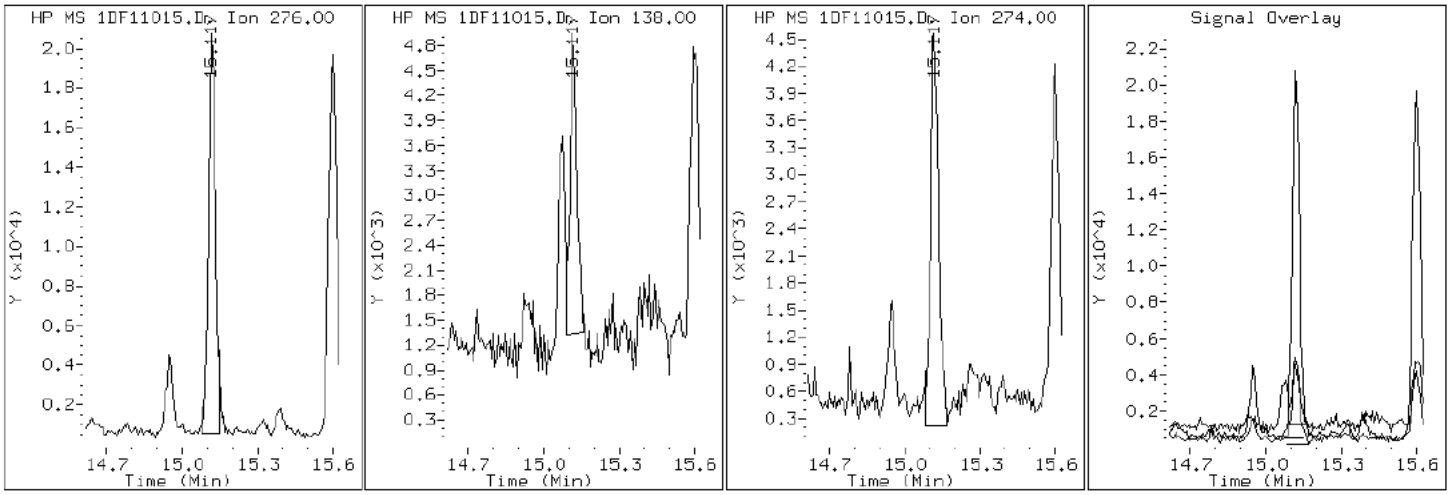
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

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



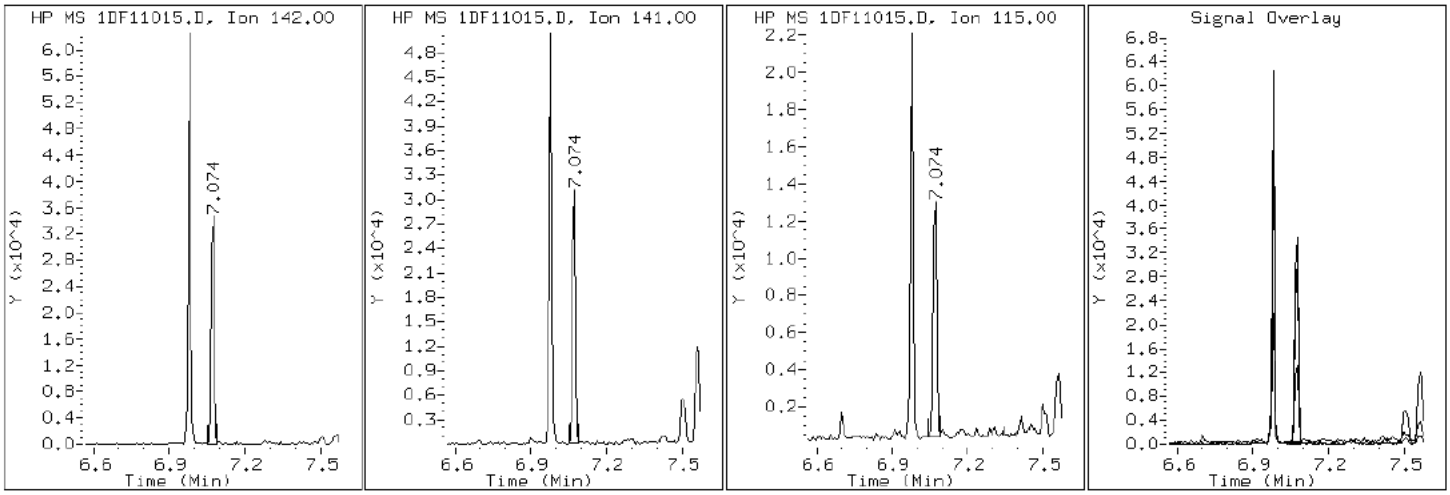
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

4 1-Methylnaphthalene



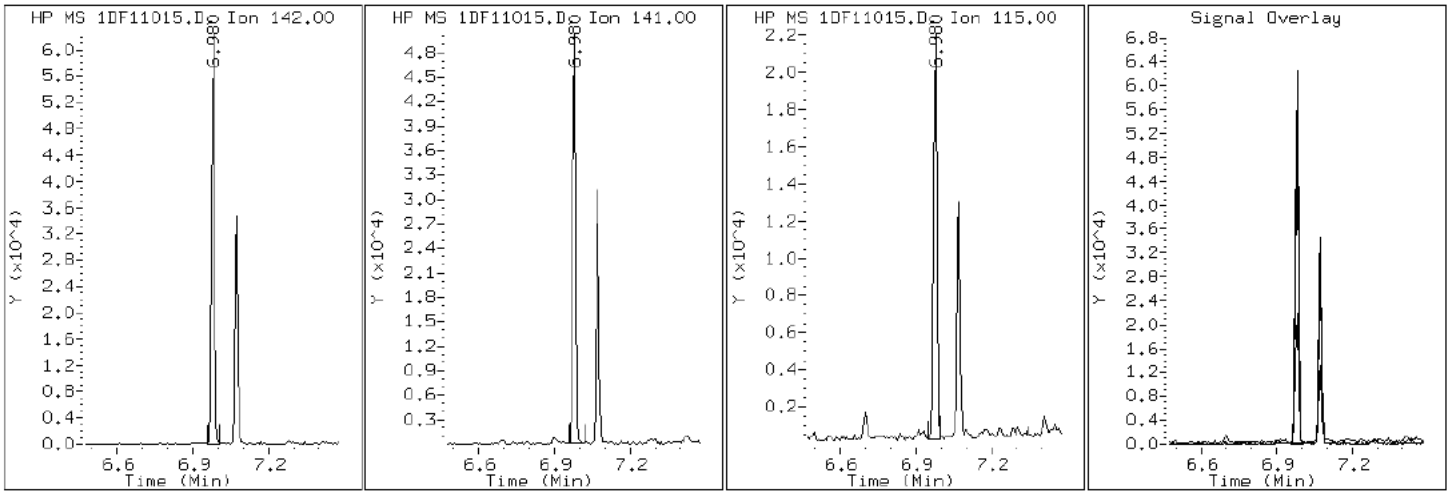
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

3 2-Methylnaphthalene



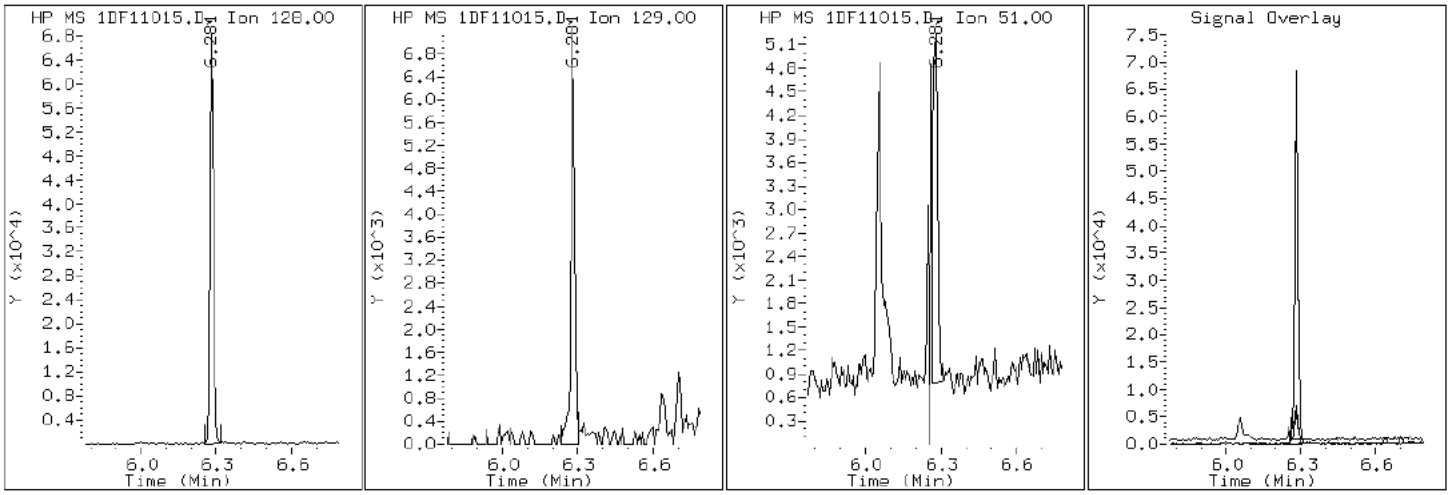
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

2 Naphthalene



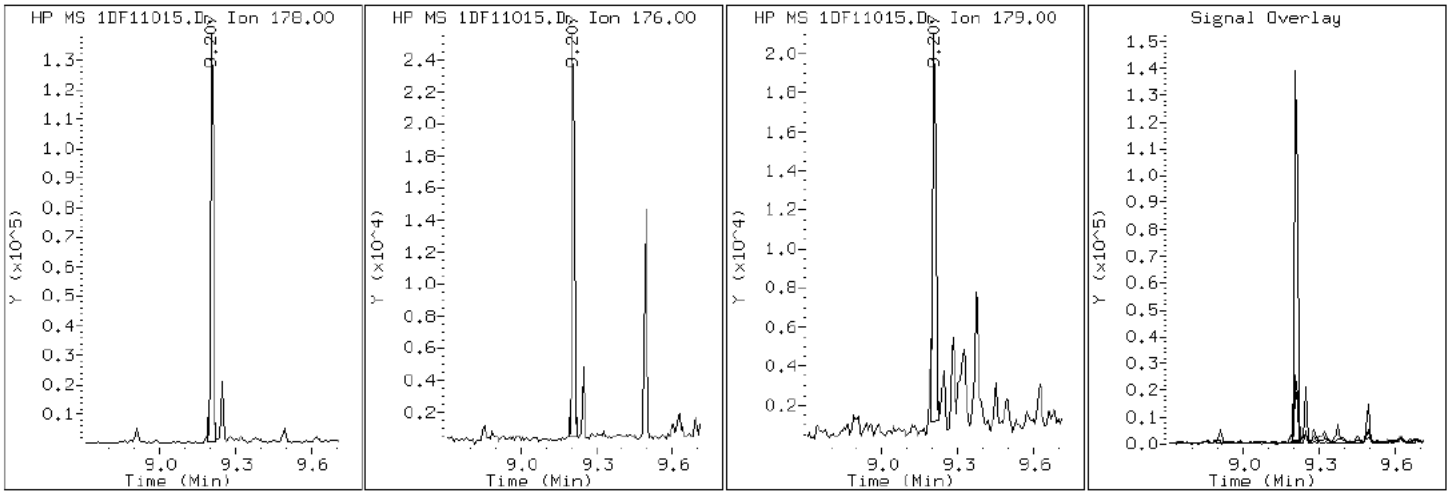
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

12 Phenanthrene



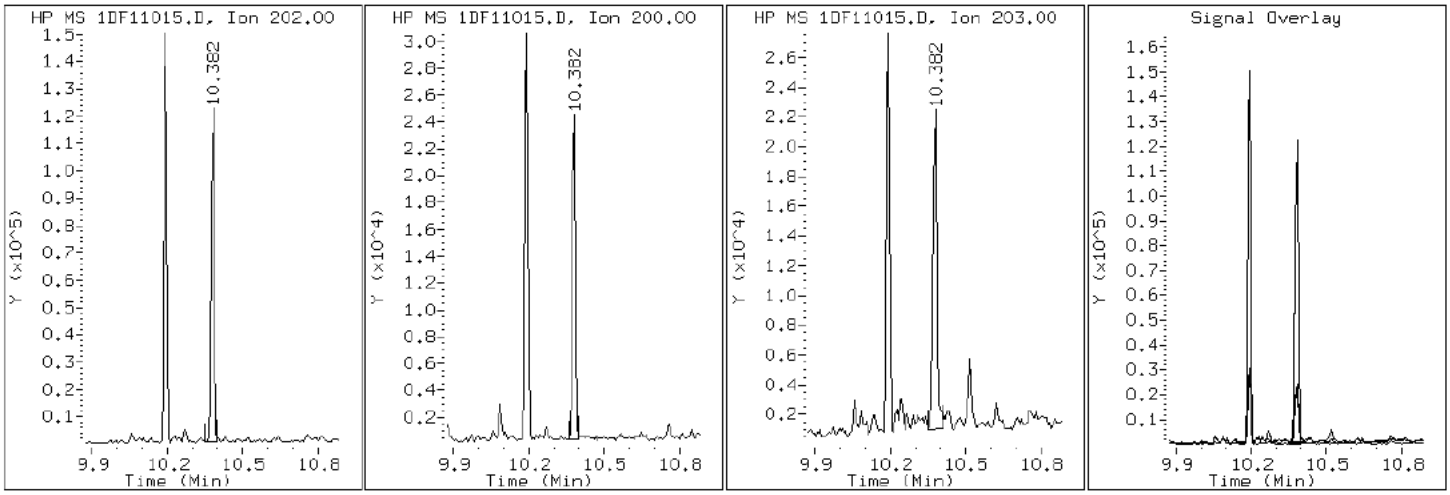
Data File: 1DF11015.D

Date: 11-JUN-2013 16:31

Client ID: FM0308C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-12-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11015.D
Inj. Date and Time: 11-JUN-2013 16:31
Instrument ID: BSMSD.i
Client ID: FM0308C-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

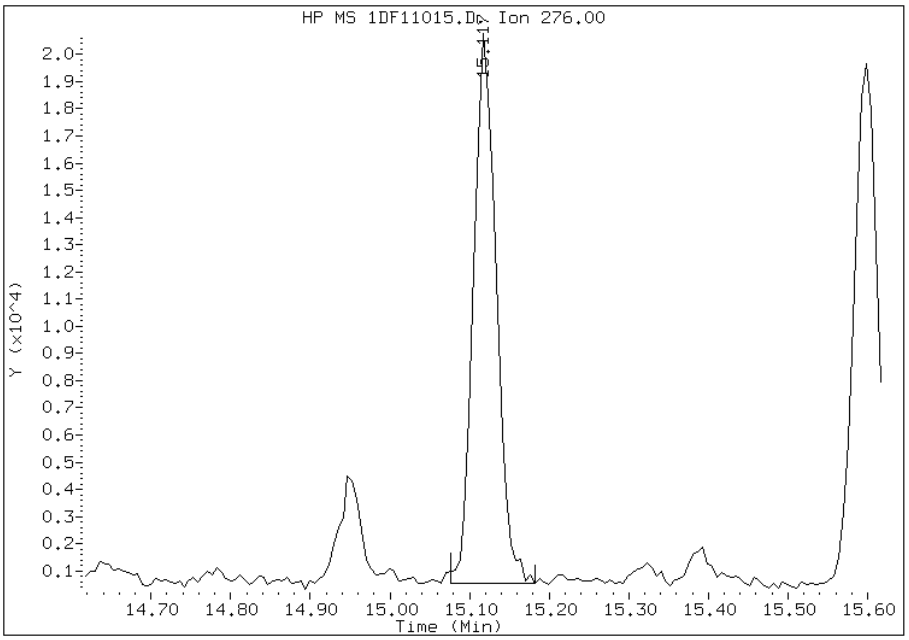
Processing Integration Results

RT: 15.12

Response: 40094

Amount: 1

Conc: 54



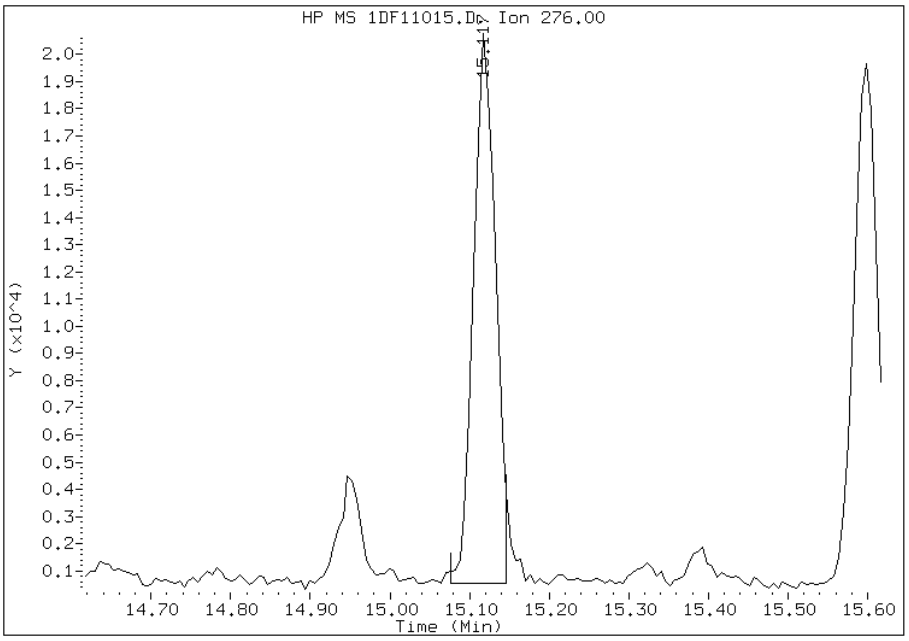
Manual Integration Results

RT: 15.12

Response: 38854

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308D-CS | Lab Sample ID: 680-90855-13

Matrix: Solid | Lab File ID: 1DF11016.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:44

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.11(g) | Date Analyzed: 06/11/2013 16:53

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

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

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	40	J	180	23
120-12-7	Anthracene	52		39	19
56-55-3	Benzo[a]anthracene	160		37	18
50-32-8	Benzo[a]pyrene	150		48	24
205-99-2	Benzo[b]fluoranthene	250		56	28
191-24-2	Benzo[g,h,i]perylene	420		92	20
207-08-9	Benzo[k]fluoranthene	60		37	17
218-01-9	Chrysene	200		41	21
53-70-3	Dibenz(a,h)anthracene	58	J	92	19
206-44-0	Fluoranthene	190		92	18
86-73-7	Fluorene	92	U	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	200		92	33
90-12-0	1-Methylnaphthalene	240		180	20
91-57-6	2-Methylnaphthalene	390		180	33
91-20-3	Naphthalene	230		180	20
85-01-8	Phenanthrene	230		37	18
129-00-0	Pyrene	180		92	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11016.D
Lab Smp Id: 680-90855-A-13-A Client Smp ID: FM0308D-CS
Inj Date : 11-JUN-2013 16:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-13-a
Misc Info : 680-90855-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16
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	13.471	% 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	6.262	6.260	(1.000)	3312557	40.0000	
*	7 Acenaphthene-d10	164	7.930	7.929	(1.000)	1957835	40.0000	
*	11 Phenanthrene-d10	188	9.193	9.192	(1.000)	3114997	40.0000	
$	15 o-Terphenyl	230	9.493	9.497	(1.033)	74362	1.62948	500
*	19 Chrysene-d12	240	11.561	11.560	(1.000)	2893000	40.0000	
*	24 Perylene-d12	264	13.488	13.469	(1.000)	2672640	40.0000	
	2 Naphthalene	128	6.279	6.284	(1.003)	62016	0.75917	230
	3 2-Methylnaphthalene	142	6.978	6.977	(1.114)	67076	1.28960	390
	4 1-Methylnaphthalene	142	7.072	7.071	(1.129)	41836	0.78130	240
	6 Acenaphthylene	152	7.801	7.799	(0.984)	10619	0.13082	40
	10 Fluorene	166	8.394	8.399	(1.059)	3166	0.05434	17(Q)
	12 Phenanthrene	178	9.211	9.210	(1.002)	63973	0.75829	230
	13 Anthracene	178	9.246	9.251	(1.006)	14006	0.17110	52
	16 Fluoranthene	202	10.192	10.191	(1.109)	53655	0.62167	190

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.380	10.379	(0.898)	48665	0.57456	180
18 Benzo(a)anthracene	228	11.550	11.536	(0.999)	44603	0.51950	160
20 Chrysene	228	11.585	11.583	(1.002)	49962	0.64623	200
21 Benzo(b)fluoranthene	252	12.907	12.899	(0.957)	54494	0.81388	250
22 Benzo(k)fluoranthene	252	12.942	12.940	(0.959)	13805	0.19689	60
23 Benzo(a)pyrene	252	13.377	13.369	(0.992)	25197	0.47860	150
25 Indeno(1,2,3-cd)pyrene	276	15.134	15.120	(1.122)	34582	0.64584	200(M)
26 Dibenzo(a,h)anthracene	278	15.169	15.156	(1.125)	7580	0.19064	58
27 Benzo(g,h,i)perylene	276	15.615	15.602	(1.158)	82807	1.36451	420

QC Flag Legend

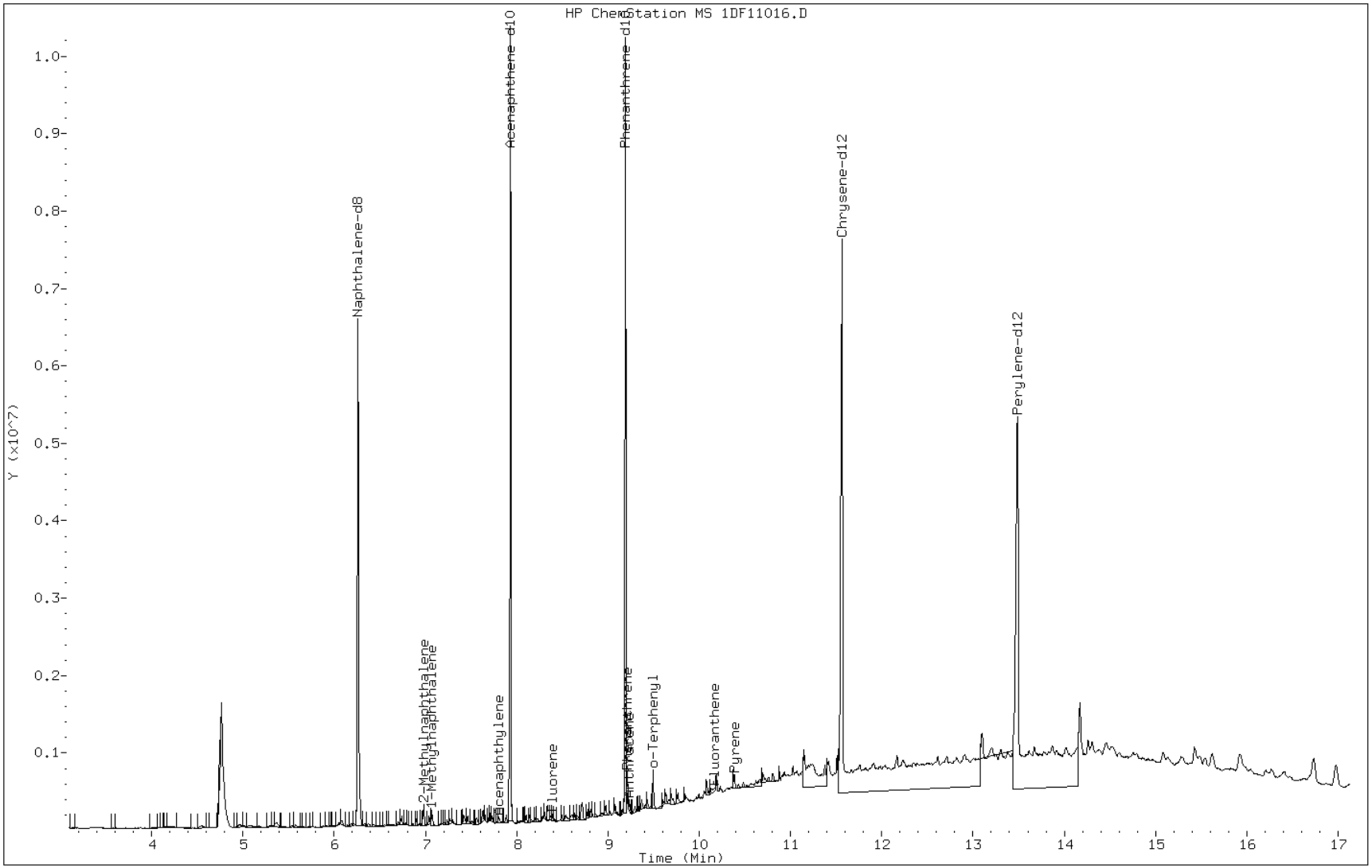
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC



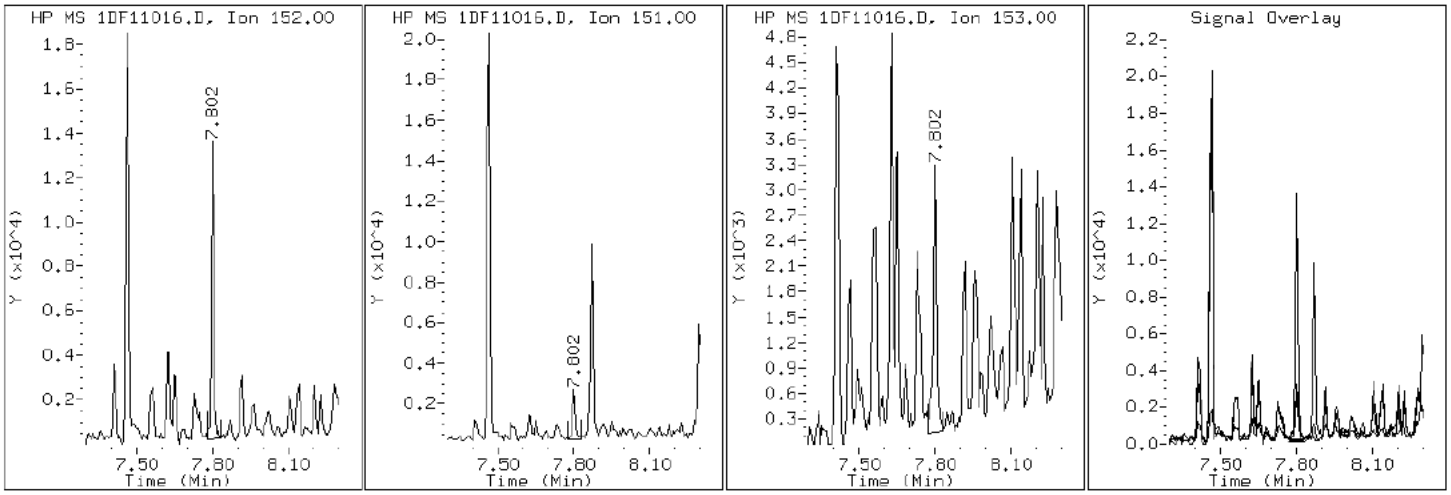
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

6 Acenaphthylene



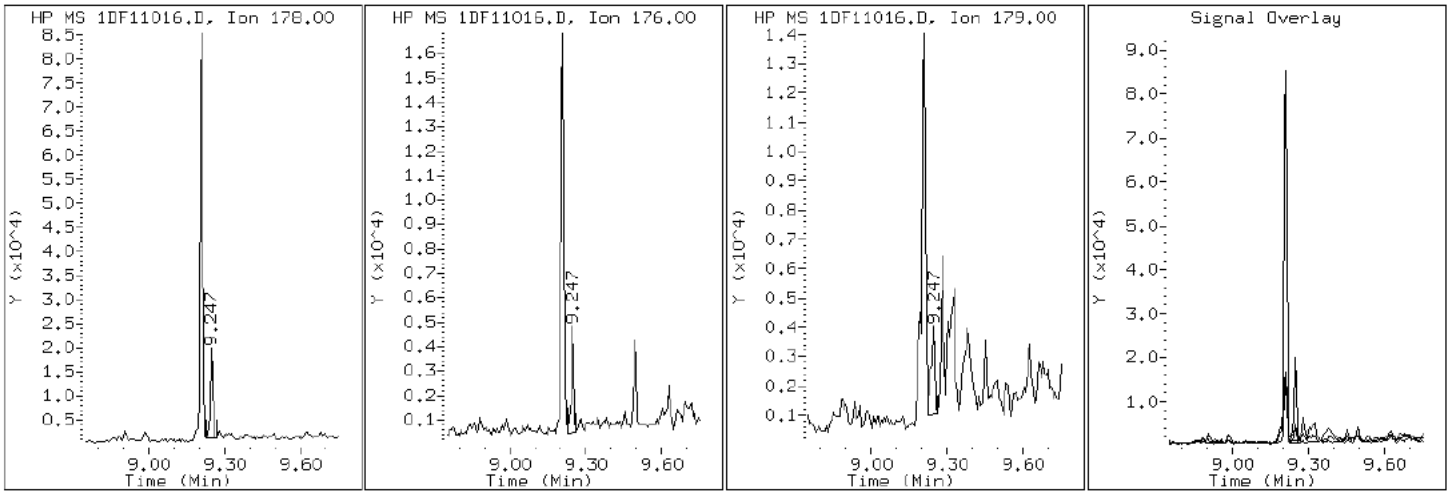
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

13 Anthracene



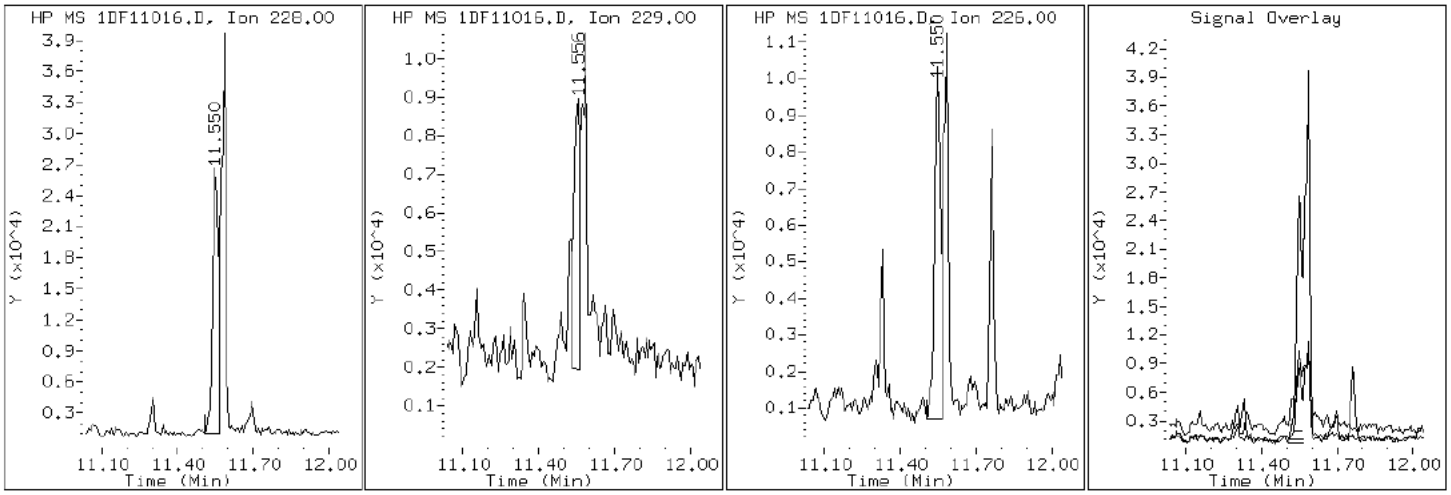
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

18 Benzo(a)anthracene



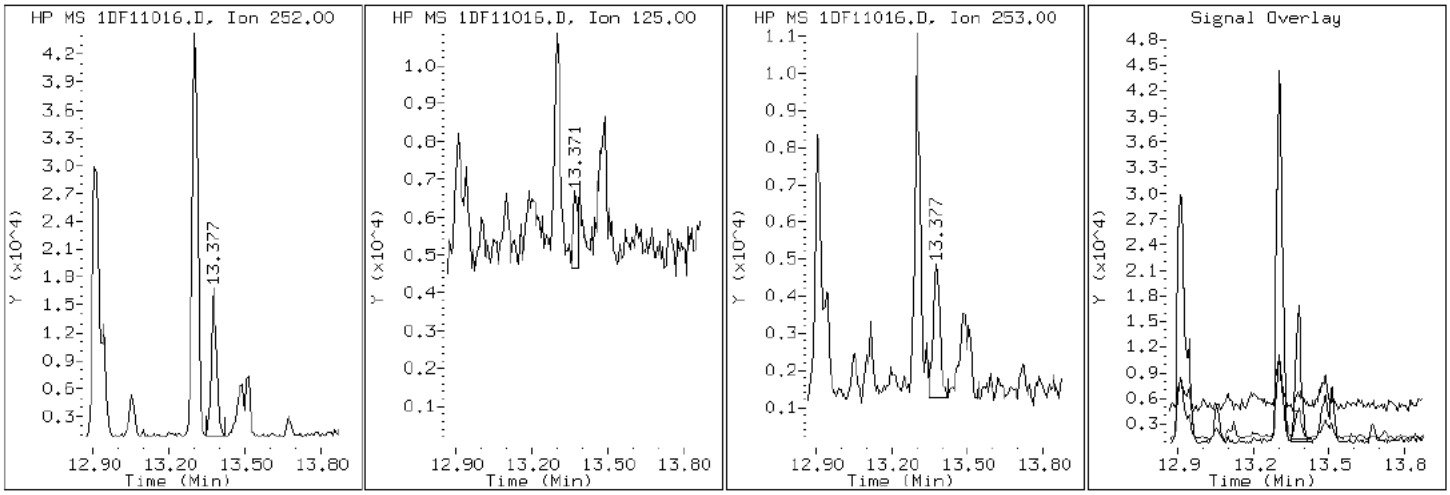
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

23 Benzo(a)pyrene



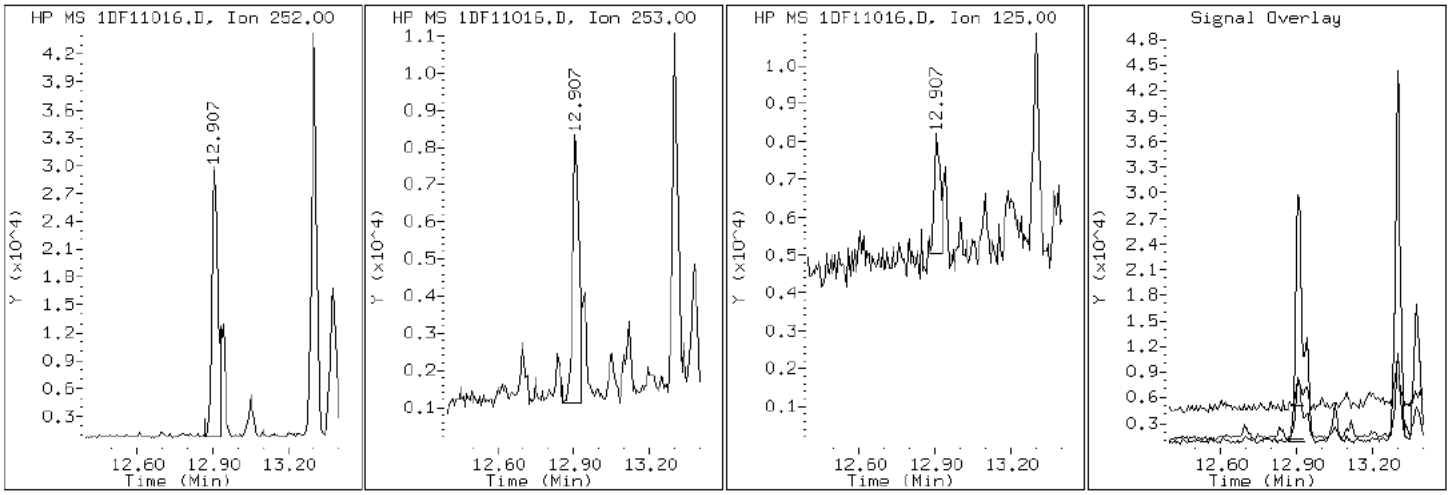
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

21 Benzo(b)fluoranthene



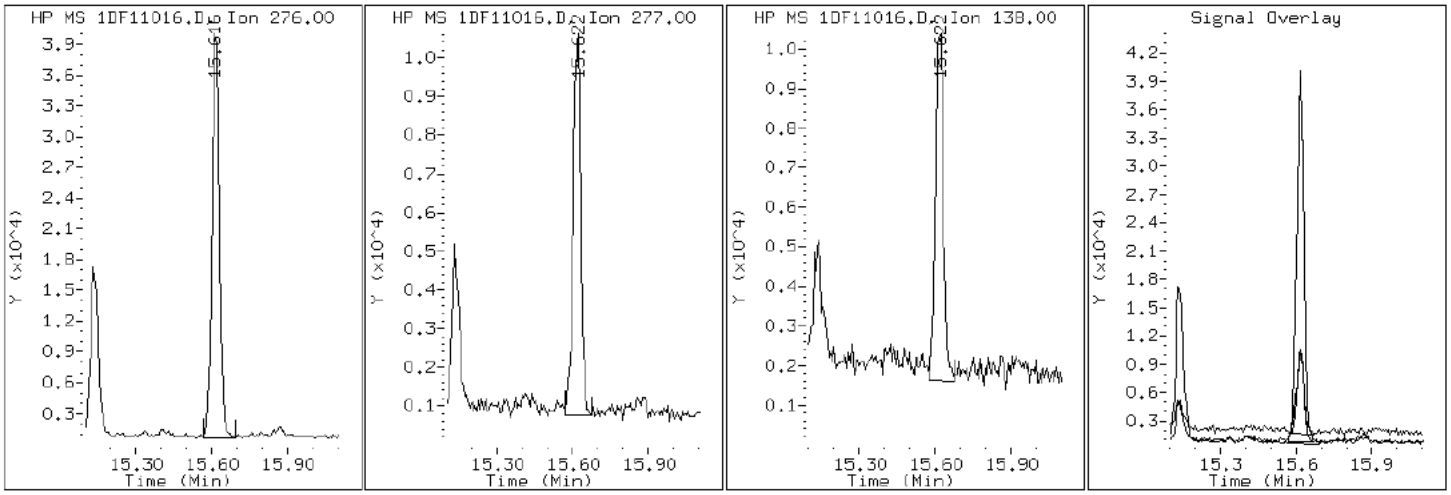
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

27 Benzo(g,h,i)perylene



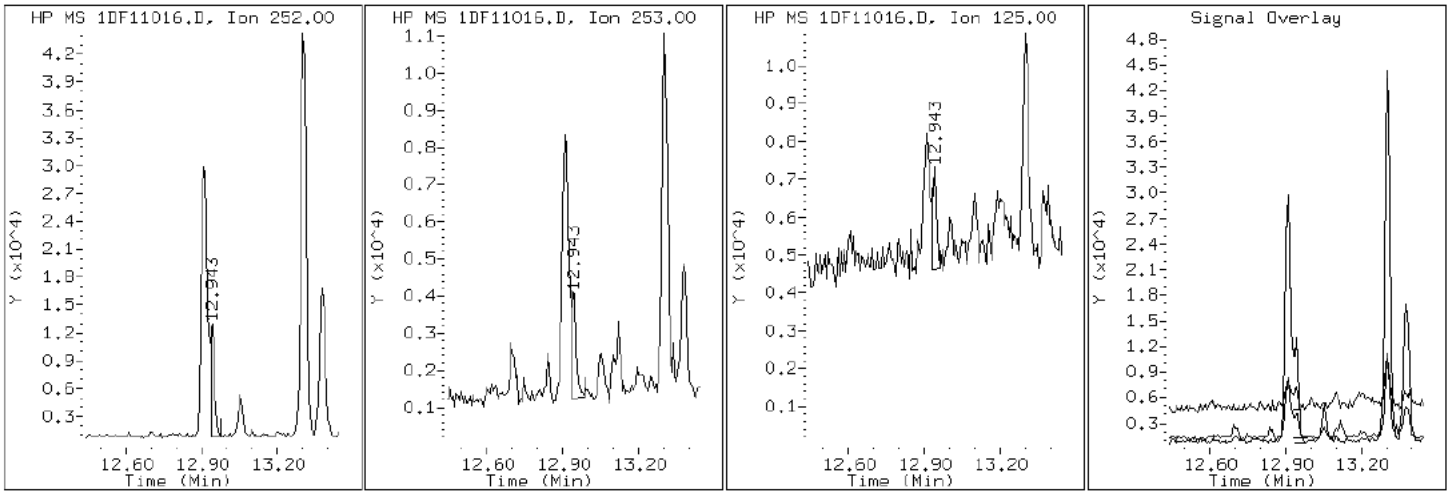
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

22 Benzo(k)fluoranthene



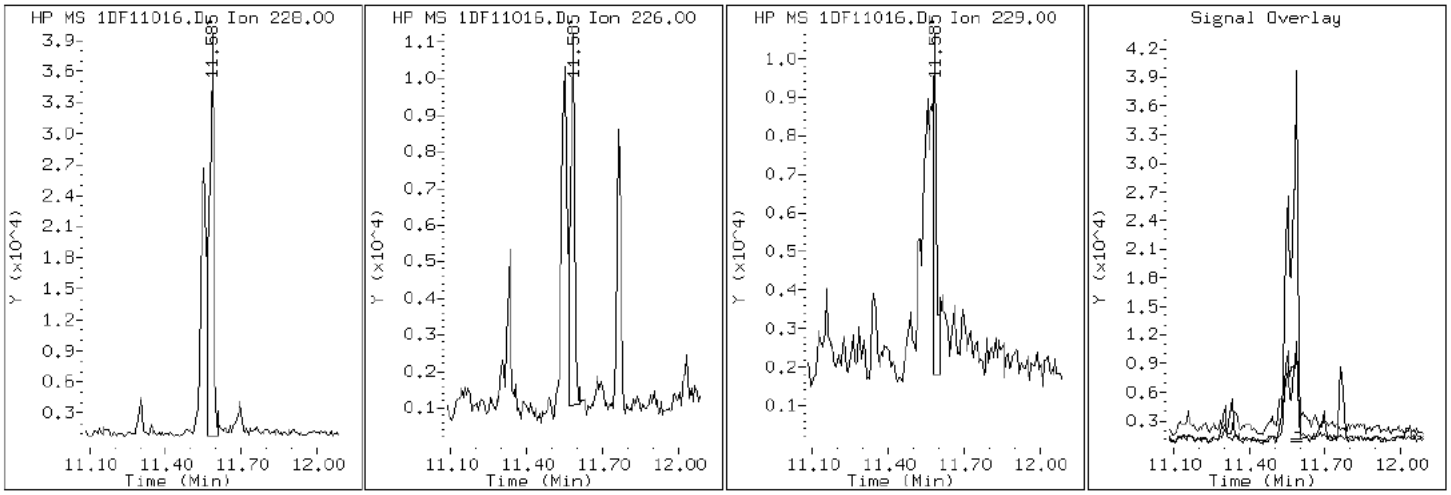
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

20 Chrysene



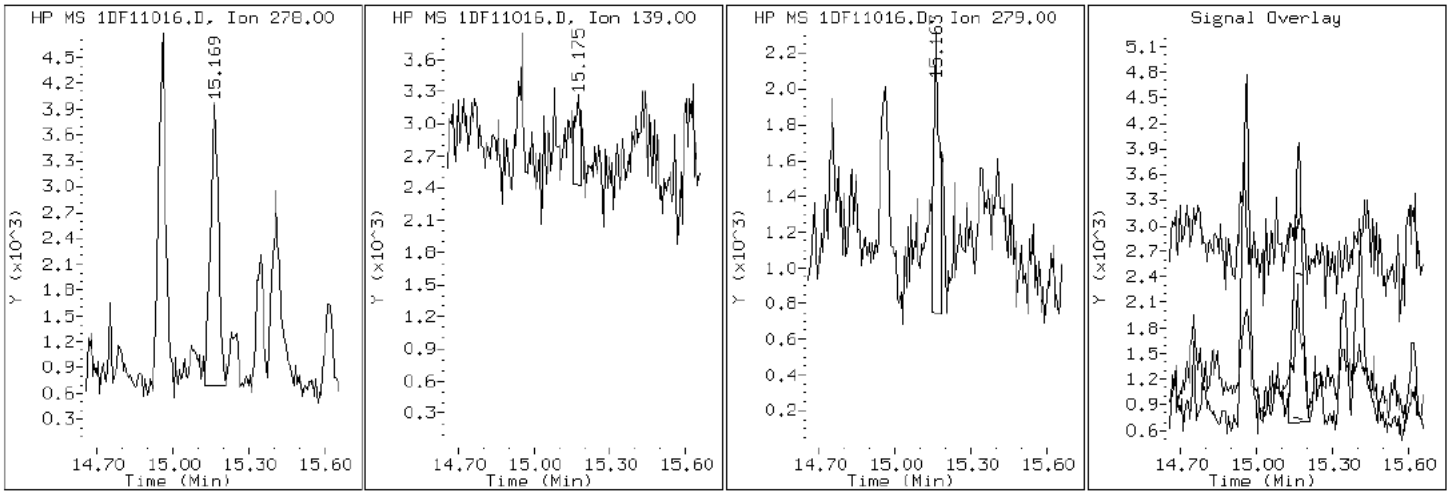
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

26 Dibenzo(a,h)anthracene



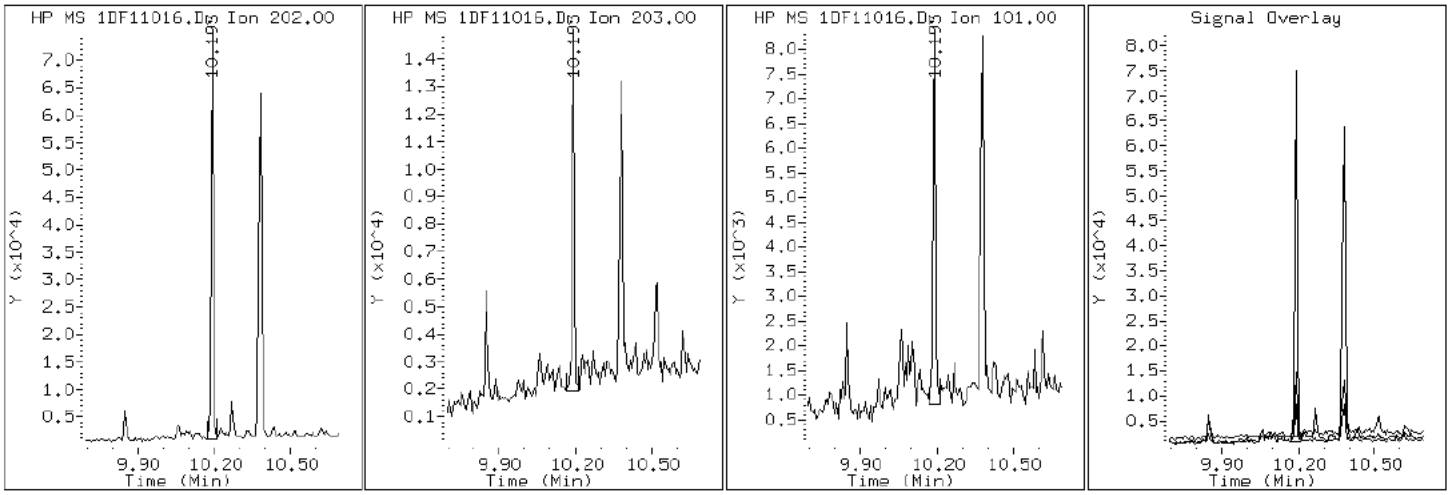
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

16 Fluoranthene



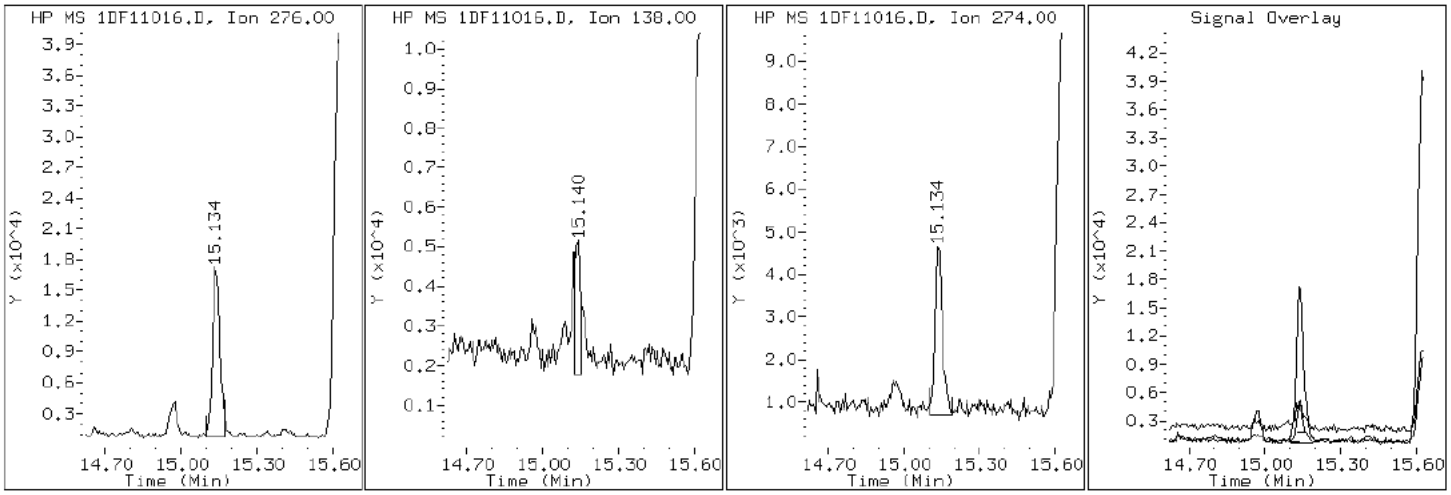
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

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



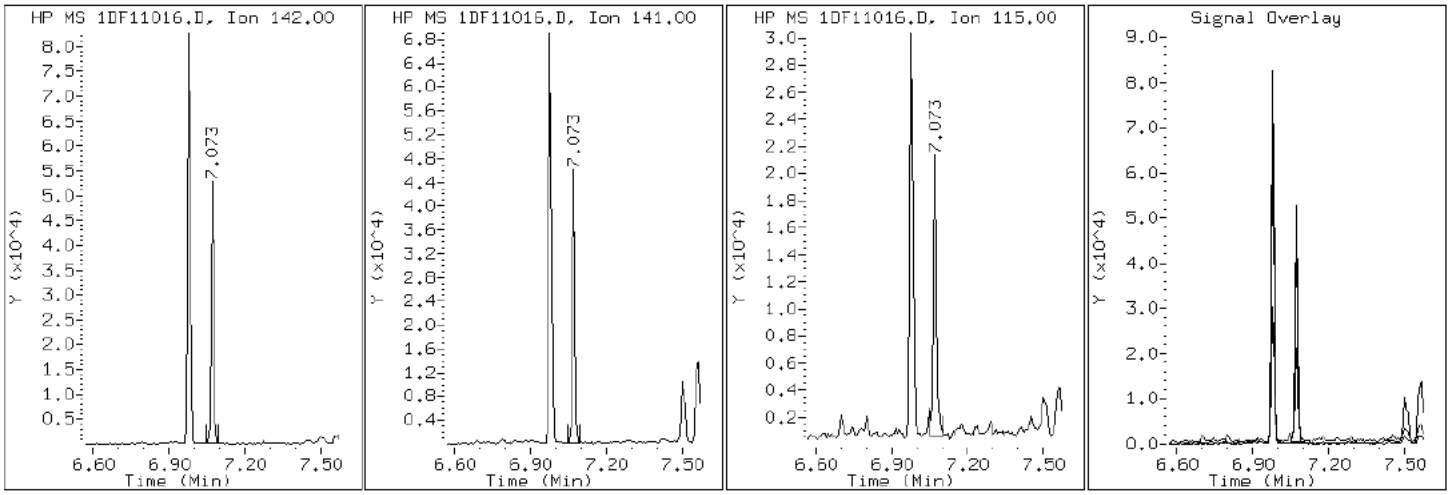
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

4 1-Methylnaphthalene



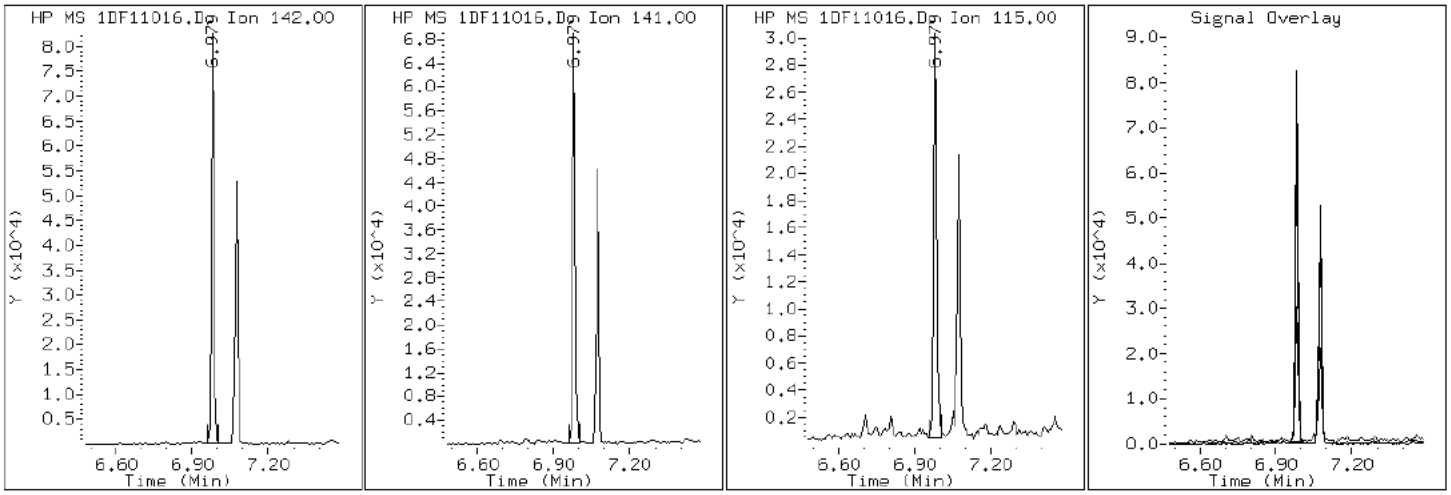
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

3 2-Methylnaphthalene



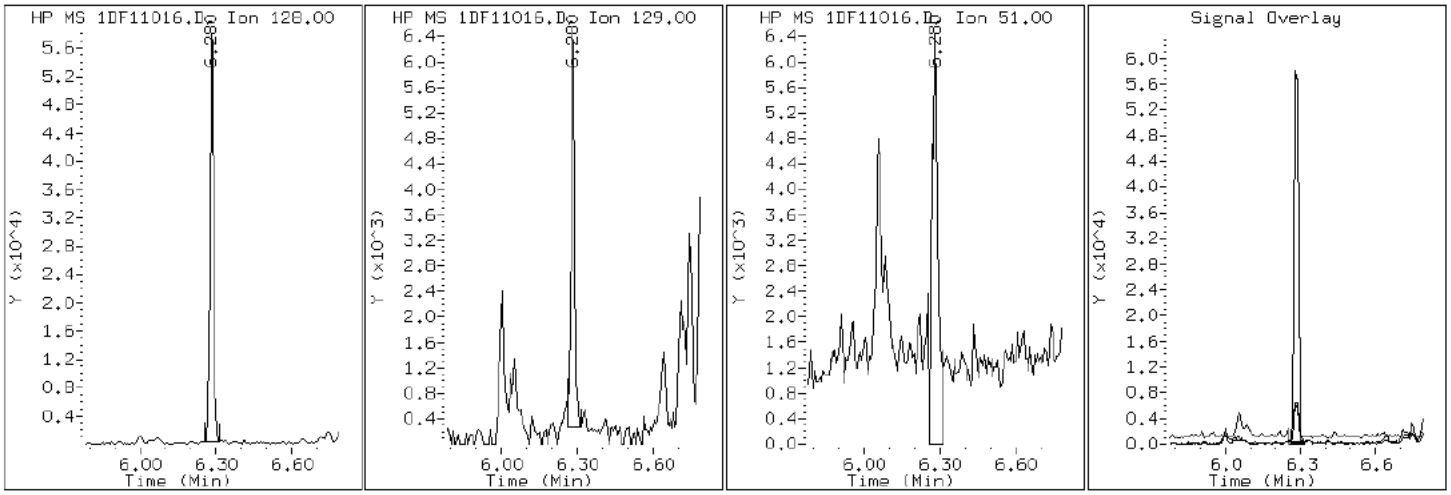
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

2 Naphthalene



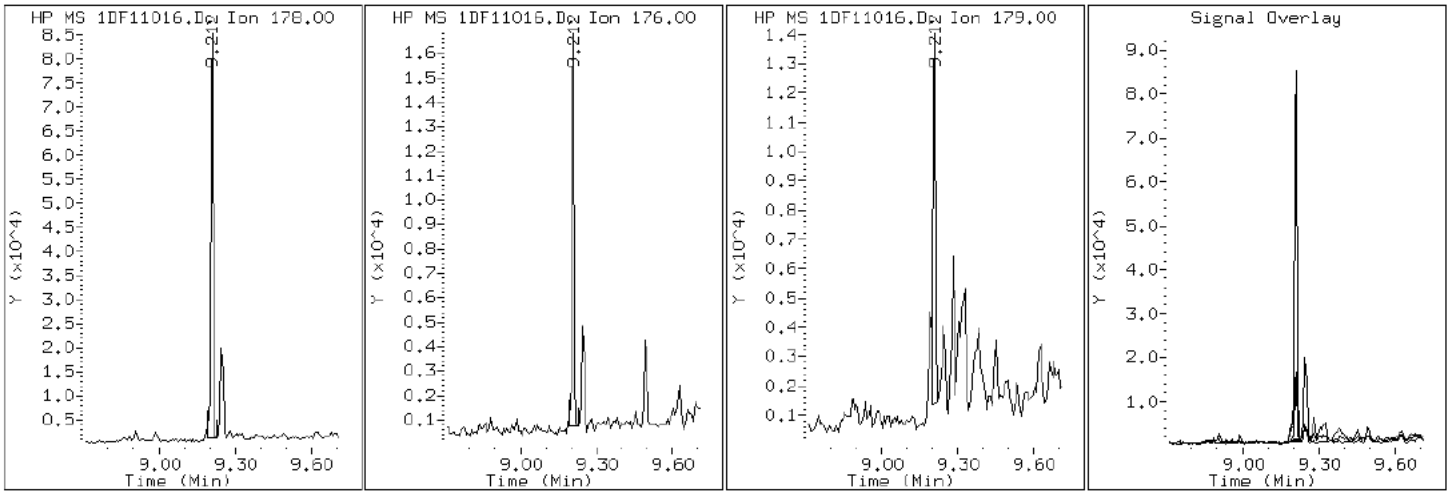
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

12 Phenanthrene



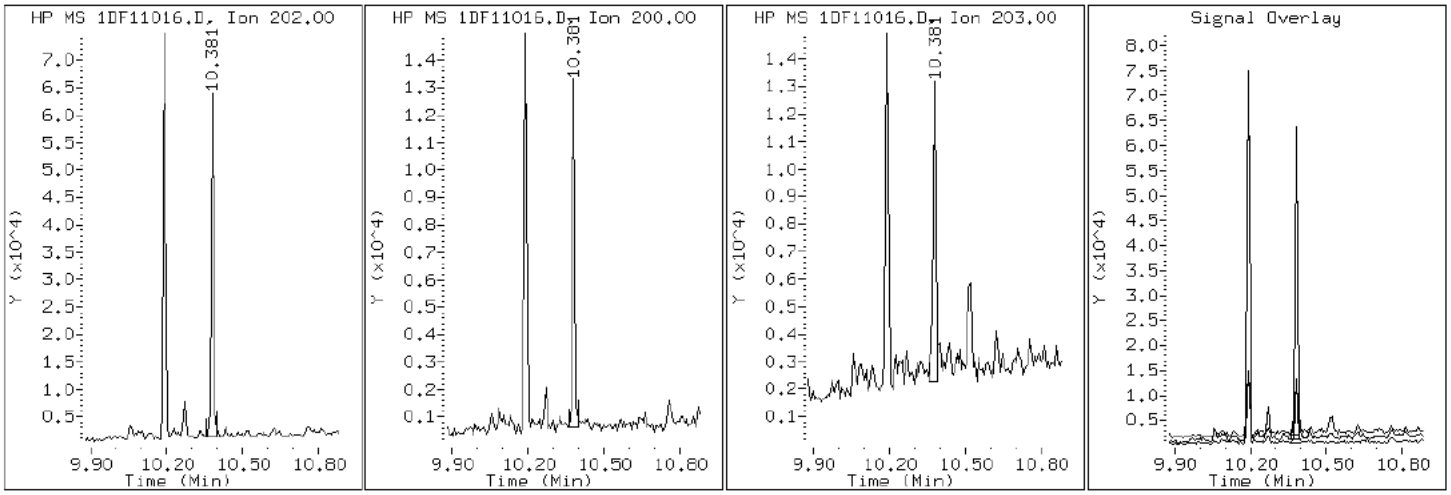
Data File: 1DF11016.D

Date: 11-JUN-2013 16:53

Client ID: FM0308D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-13-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11016.D
Inj. Date and Time: 11-JUN-2013 16:53
Instrument ID: BSMSD.i
Client ID: FM0308D-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

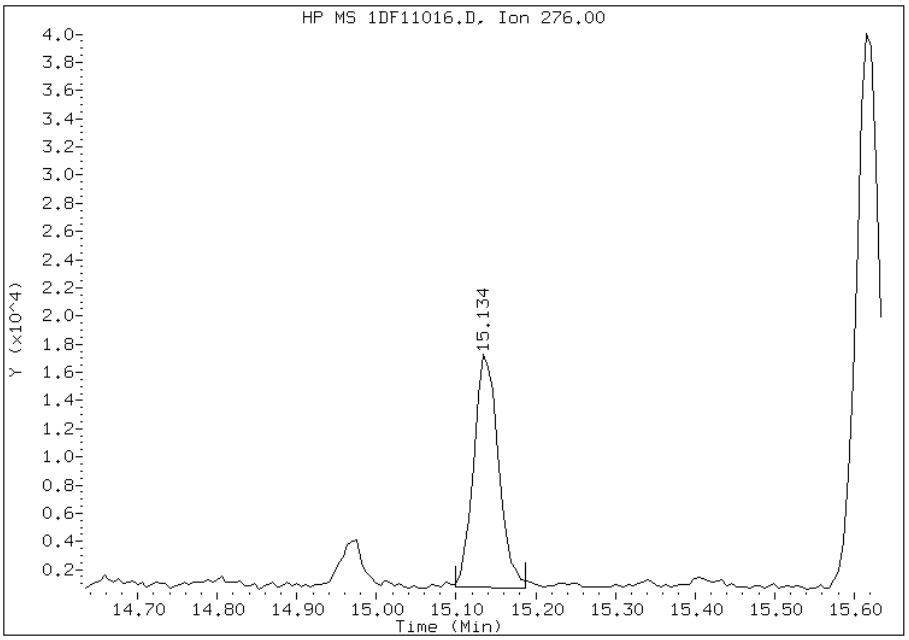
Processing Integration Results

RT: 15.13

Response: 35462

Amount: 1

Conc: 201



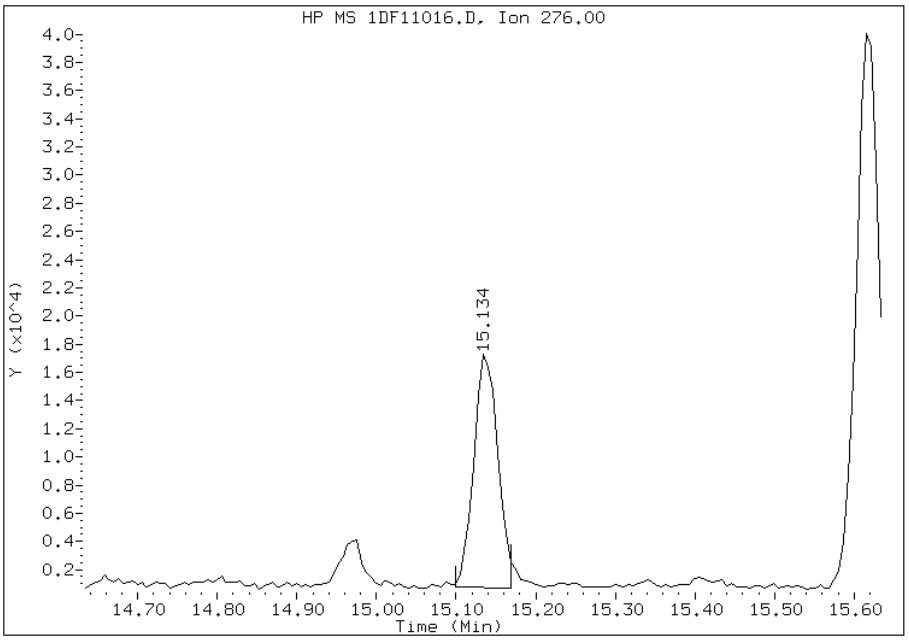
Manual Integration Results

RT: 15.13

Response: 34582

Amount: 1

Conc: 198



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308E-CS | Lab Sample ID: 680-90855-14

Matrix: Solid | Lab File ID: 1DF11017.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:53

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.24(g) | Date Analyzed: 06/11/2013 17:16

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

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

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	95
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	77		40	20
56-55-3	Benzo[a]anthracene	180		38	19
50-32-8	Benzo[a]pyrene	170		49	25
205-99-2	Benzo[b]fluoranthene	250		58	29
191-24-2	Benzo[g,h,i]perylene	110		95	21
207-08-9	Benzo[k]fluoranthene	86		38	17
218-01-9	Chrysene	220		43	21
53-70-3	Dibenz(a,h)anthracene	58	J	95	19
206-44-0	Fluoranthene	290		95	19
86-73-7	Fluorene	36	J	95	19
193-39-5	Indeno[1,2,3-cd]pyrene	130		95	34
90-12-0	1-Methylnaphthalene	60	J	190	21
91-57-6	2-Methylnaphthalene	120	J	190	34
91-20-3	Naphthalene	110	J	190	21
85-01-8	Phenanthrene	290		38	19
129-00-0	Pyrene	230		95	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11017.D
Lab Smp Id: 680-90855-A-14-A Client Smp ID: FM0308E-CS
Inj Date : 11-JUN-2013 17:16
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-14-a
Misc Info : 680-90855-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 17
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	15.240	Weight Extracted
M	17.018	% 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	6.262	6.260	(1.000)	3416453	40.0000	
*	7 Acenaphthene-d10	164	7.931	7.929	(1.000)	2038174	40.0000	
*	11 Phenanthrene-d10	188	9.194	9.192	(1.000)	3152575	40.0000	
$	15 o-Terphenyl	230	9.494	9.497	(1.033)	64214	1.39033	440
*	19 Chrysene-d12	240	11.562	11.560	(1.000)	2899791	40.0000	
*	24 Perylene-d12	264	13.483	13.469	(1.000)	2651983	40.0000	
	2 Naphthalene	128	6.280	6.284	(1.003)	28857	0.34251	110
	3 2-Methylnaphthalene	142	6.979	6.977	(1.114)	19969	0.37225	120
	4 1-Methylnaphthalene	142	7.073	7.071	(1.129)	10519	0.19047	60
	6 Acenaphthylene	152	7.802	7.799	(0.984)	5172	0.06120	19
	10 Fluorene	166	8.401	8.399	(1.059)	6960	0.11475	36
	12 Phenanthrene	178	9.212	9.210	(1.002)	77844	0.91171	290
	13 Anthracene	178	9.247	9.251	(1.006)	20183	0.24363	77
	16 Fluoranthene	202	10.193	10.191	(1.109)	80913	0.92632	290

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.381	10.379	(0.898)	61795	0.72787	230
18 Benzo(a)anthracene	228	11.550	11.536	(0.999)	49693	0.57743	180
20 Chrysene	228	11.586	11.583	(1.002)	55121	0.71129	220
21 Benzo(b)fluoranthene	252	12.902	12.899	(0.957)	51928	0.78160	250
22 Benzo(k)fluoranthene	252	12.937	12.940	(0.959)	18891	0.27152	86
23 Benzo(a)pyrene	252	13.372	13.369	(0.992)	28249	0.52796	170
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.120	(1.122)	17617	0.40360	130(M)
26 Dibenzo(a,h)anthracene	278	15.146	15.156	(1.123)	6990	0.18225	58
27 Benzo(g,h,i)perylene	276	15.593	15.602	(1.156)	20235	0.33603	110(H)

QC Flag Legend

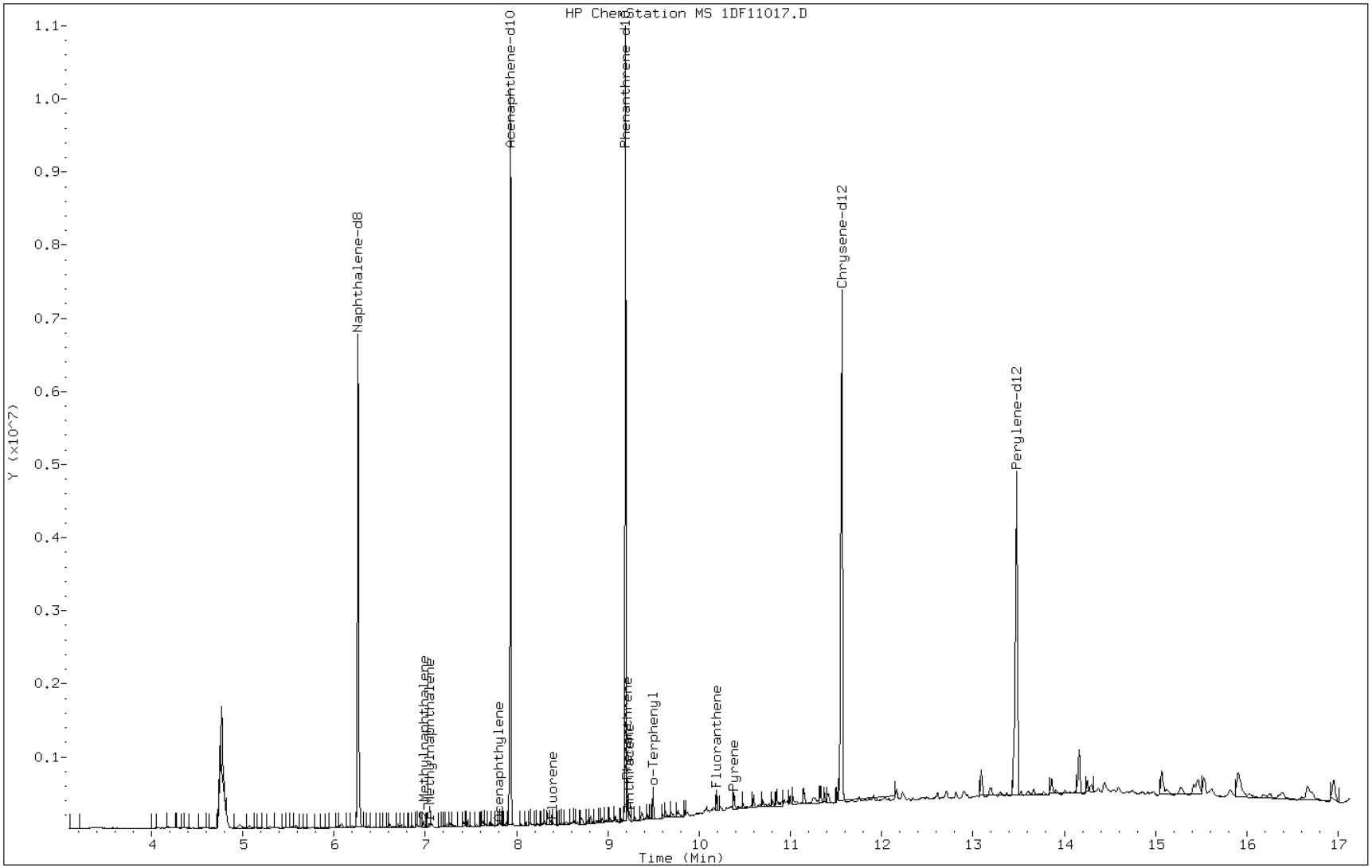
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC



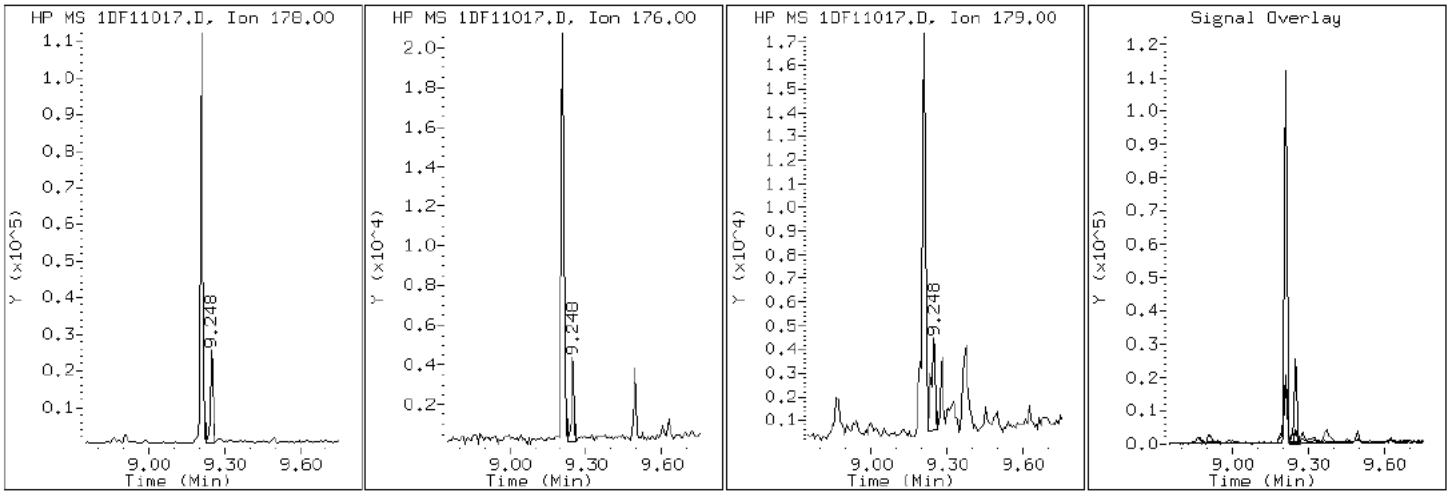
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

13 Anthracene



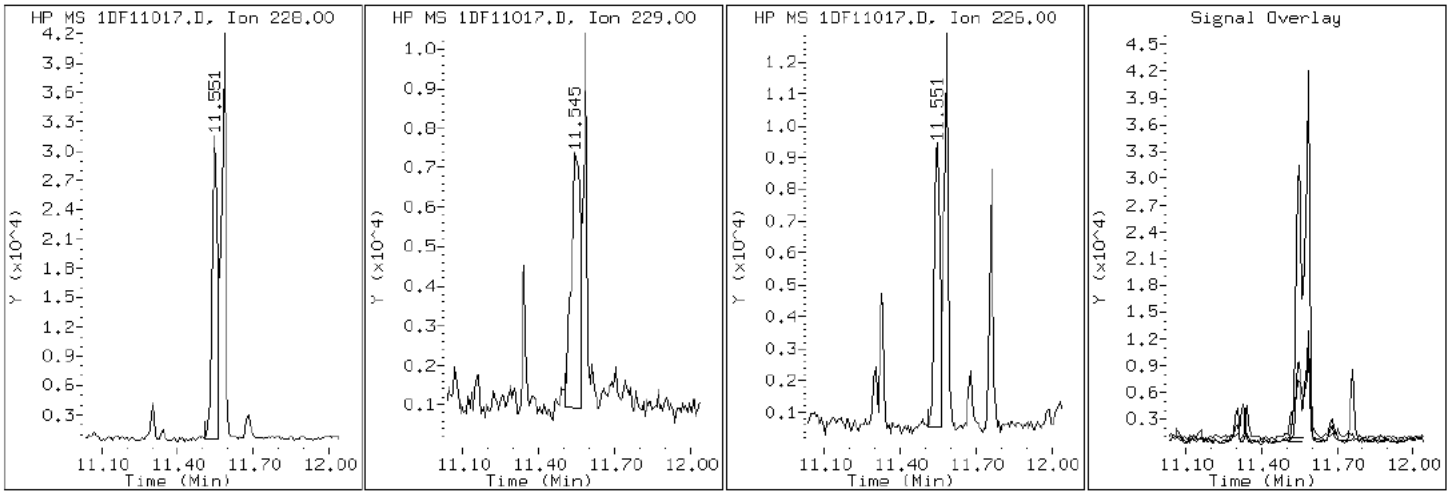
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

18 Benzo(a)anthracene



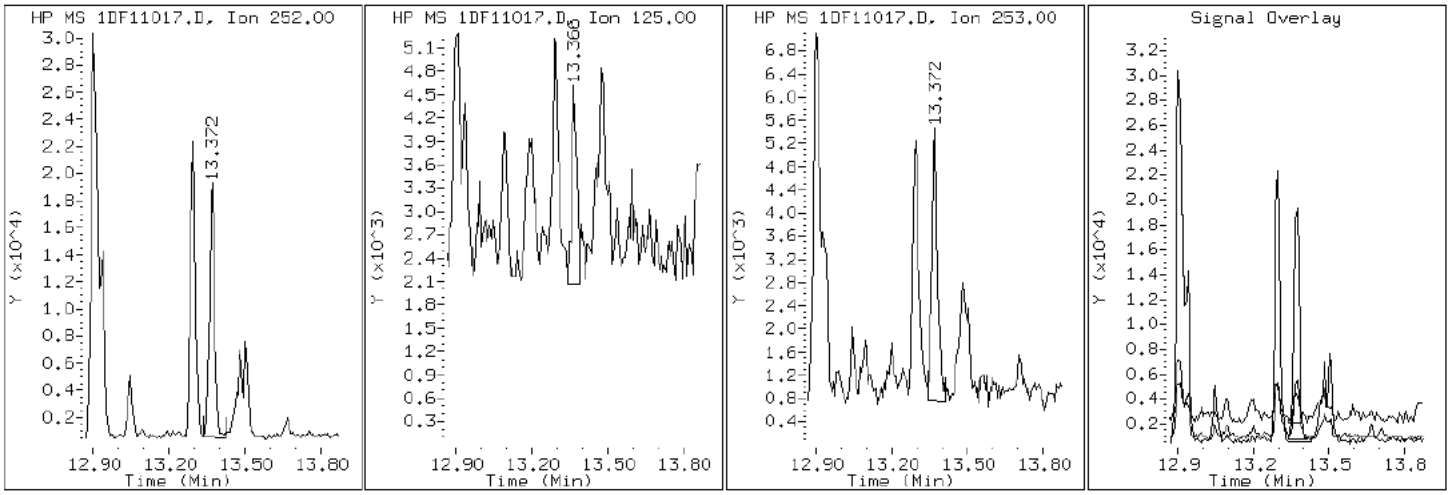
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

23 Benzo(a)pyrene



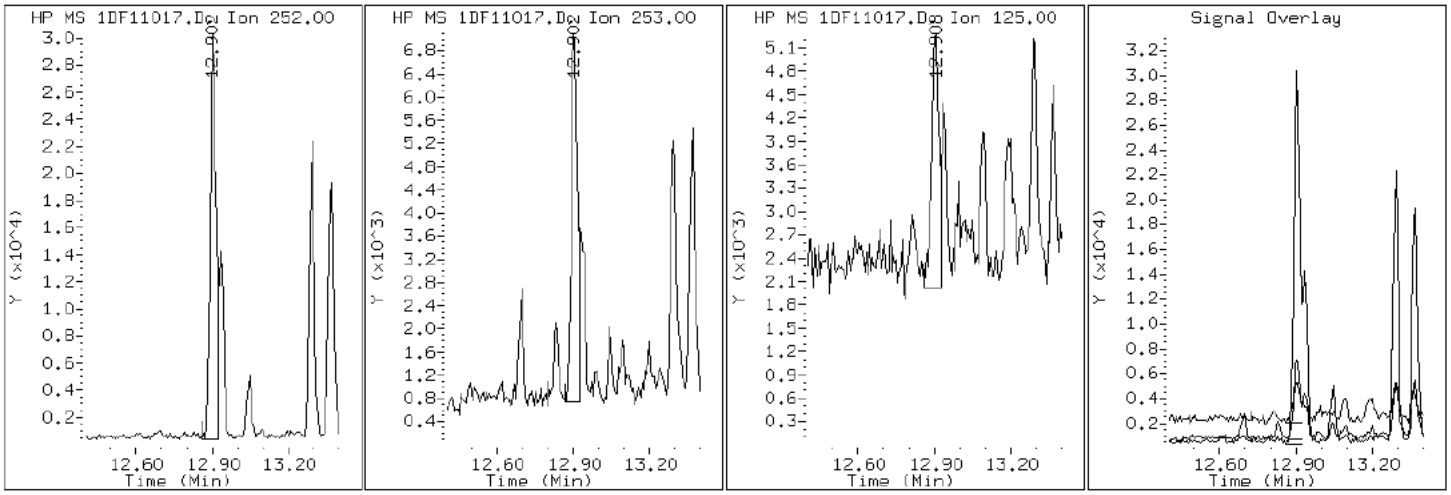
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

21 Benzo(b)fluoranthene



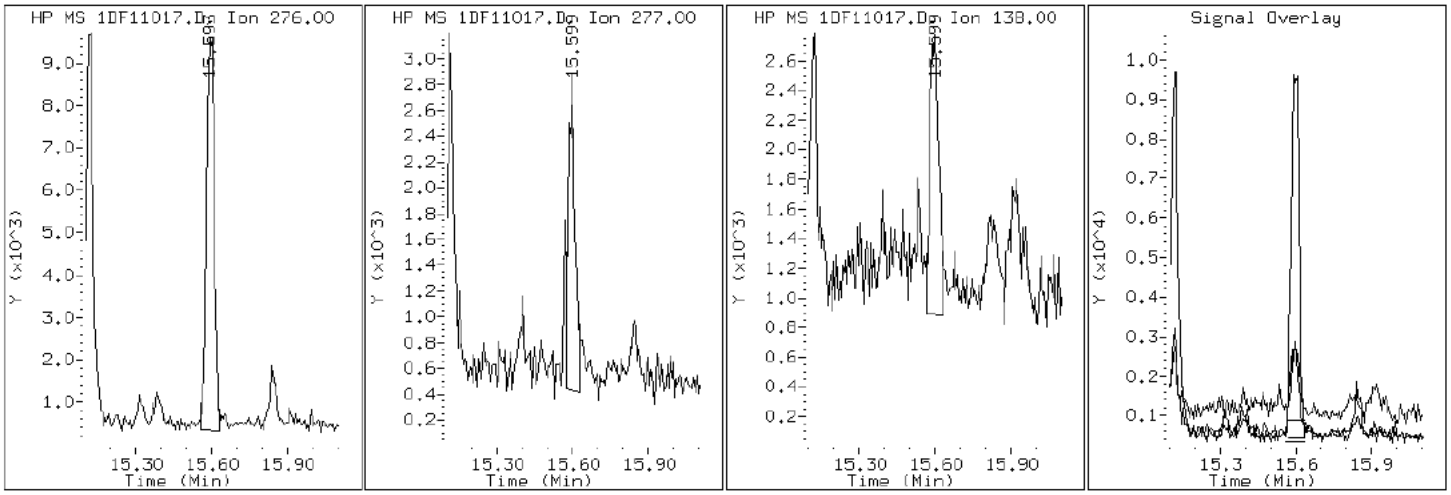
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

27 Benzo(g,h,i)perylene



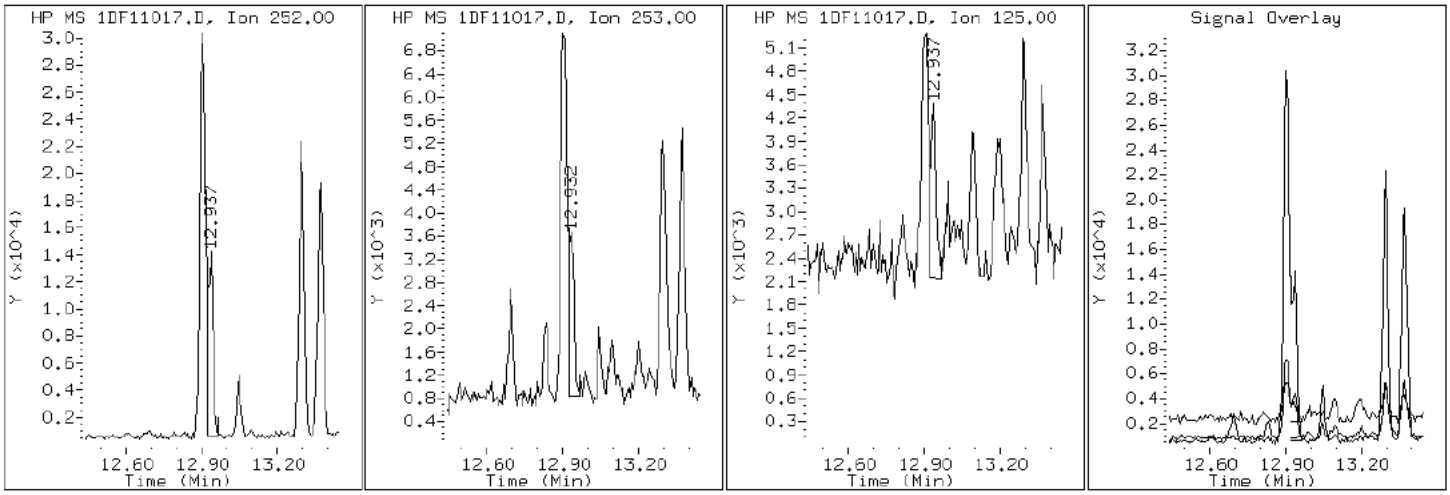
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

22 Benzo(k)fluoranthene



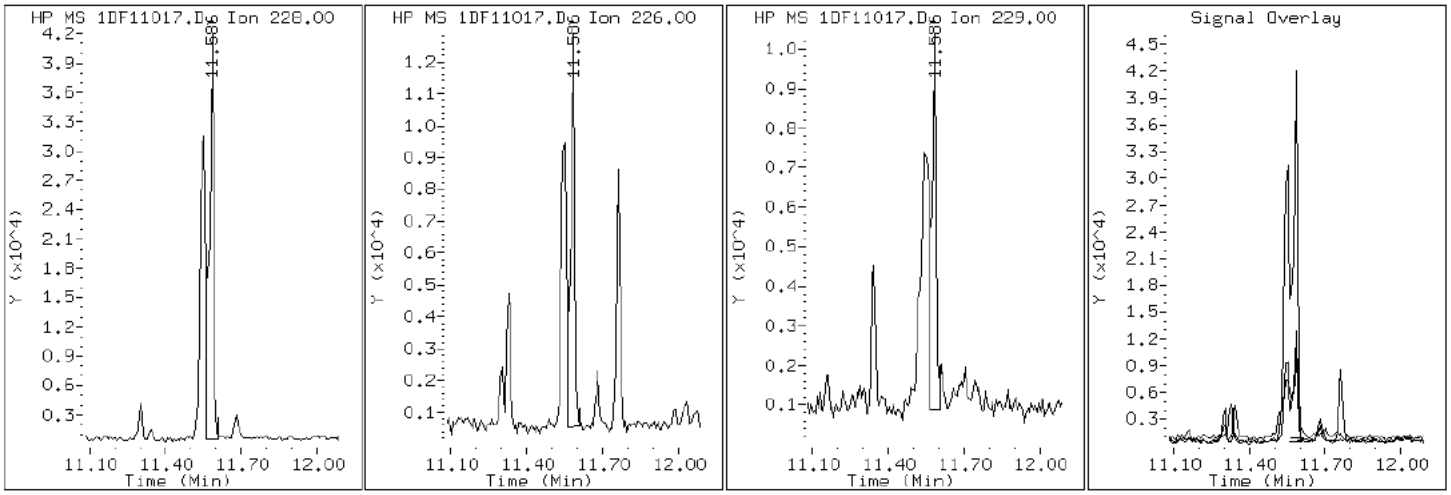
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

20 Chrysene



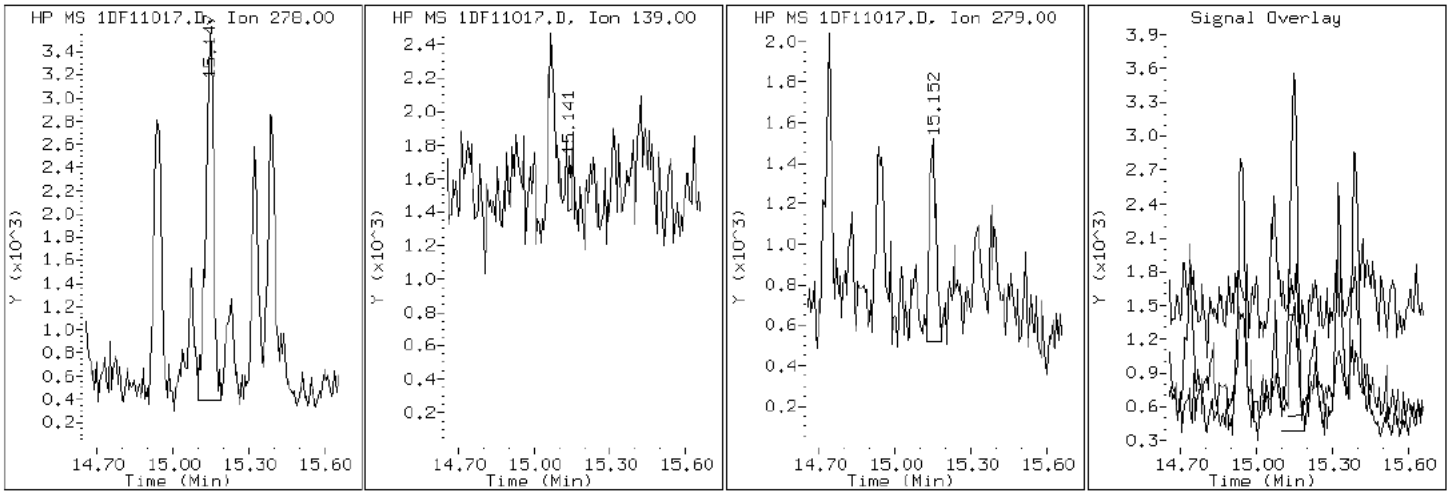
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

26 Dibenzo(a,h)anthracene



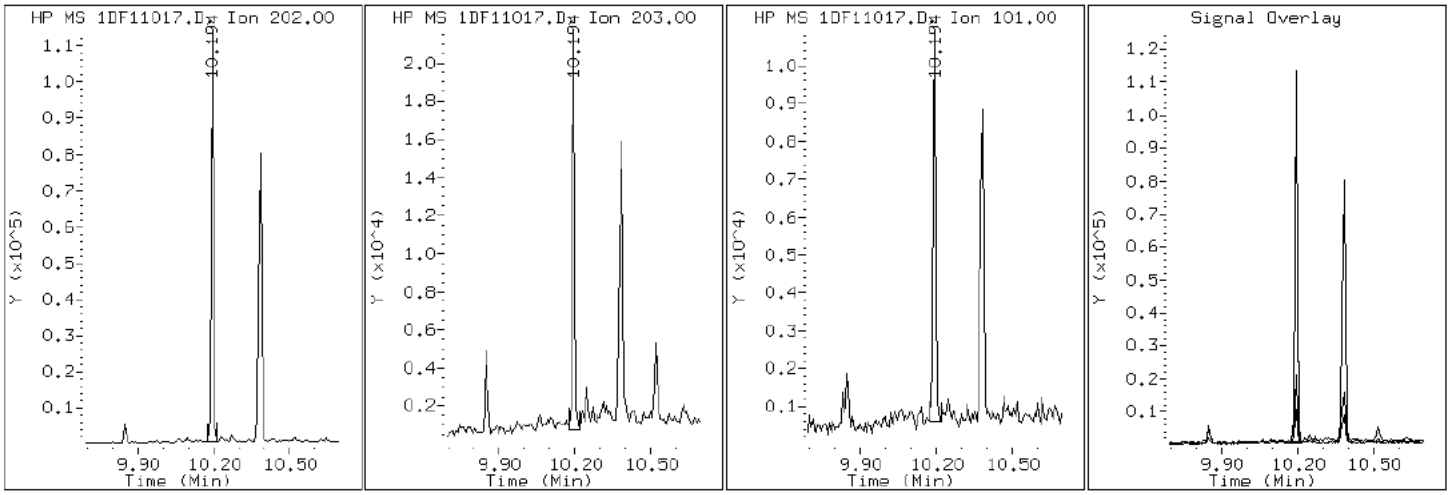
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

16 Fluoranthene



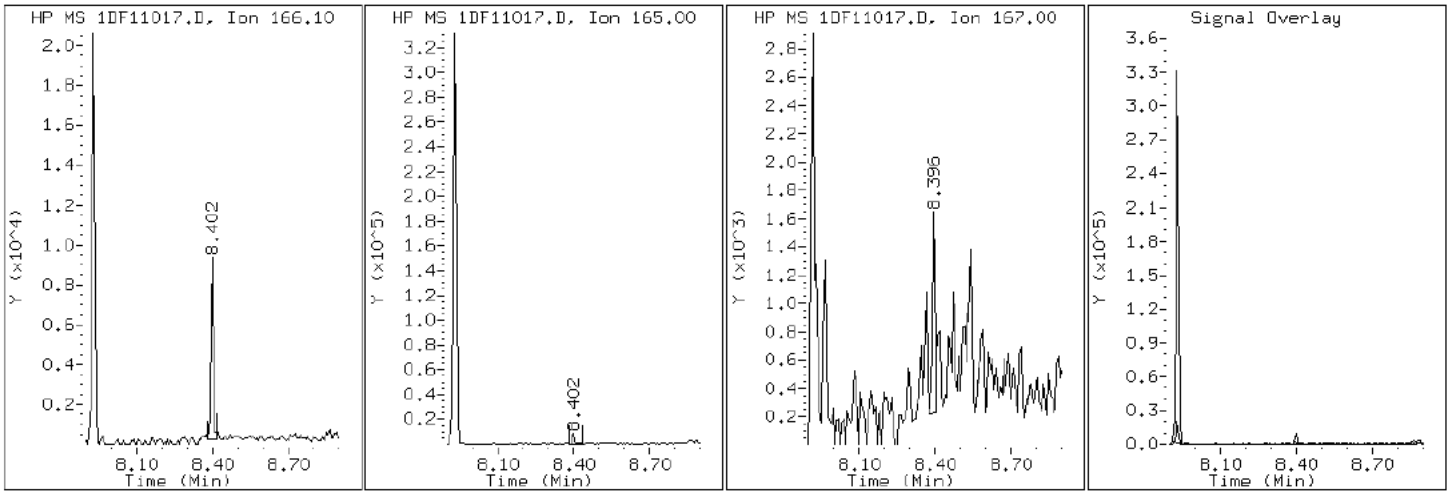
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

10 Fluorene



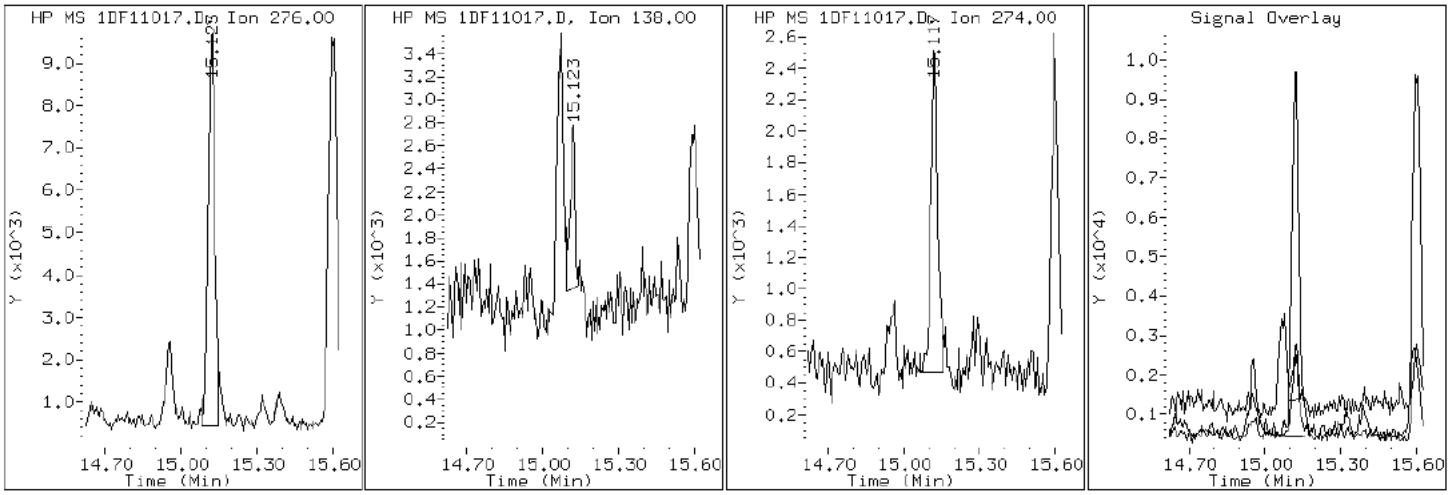
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

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



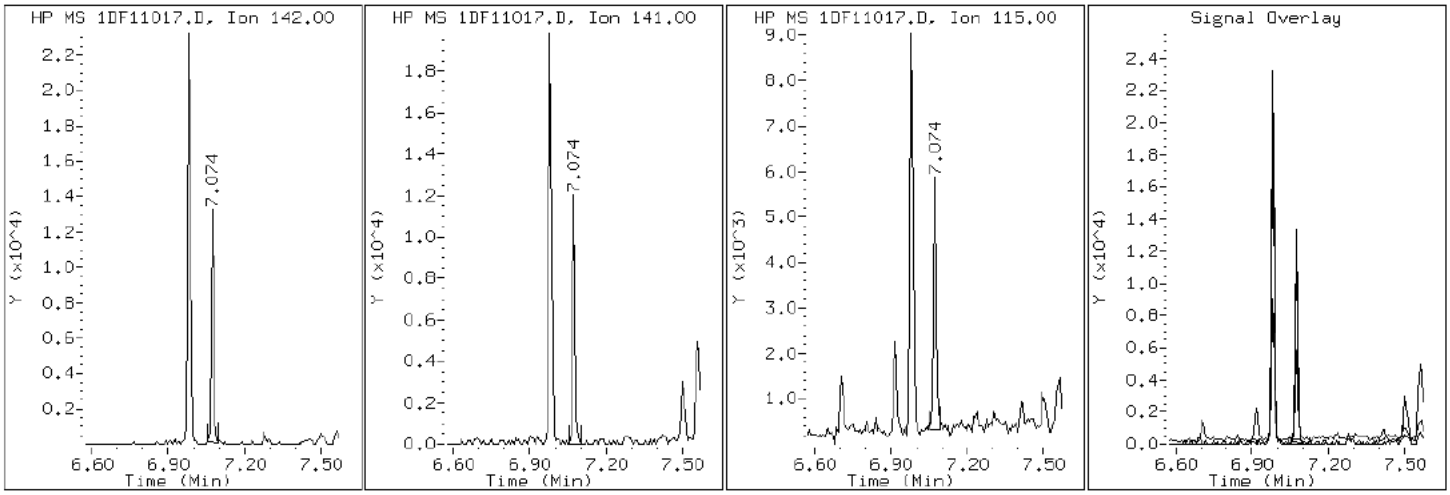
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

4 1-Methylnaphthalene



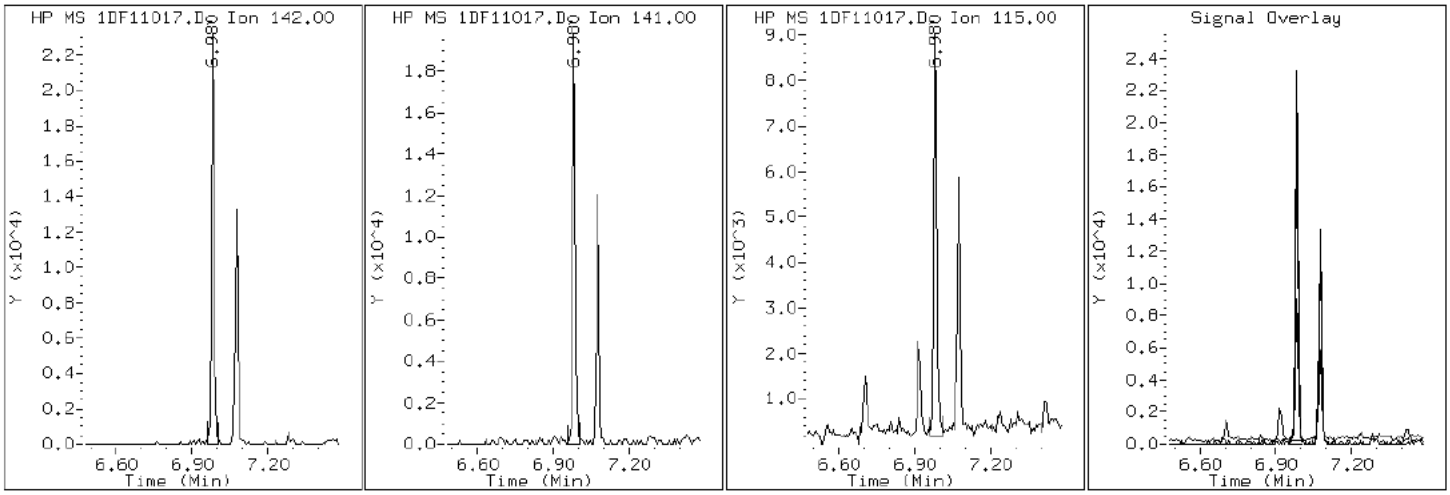
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

3 2-Methylnaphthalene



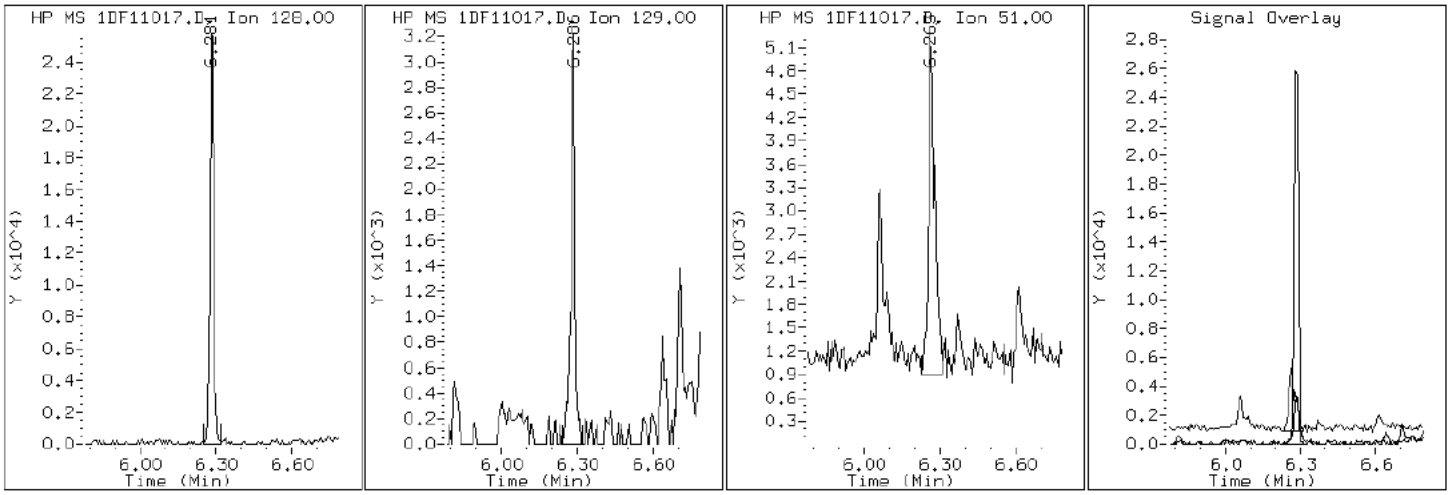
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

2 Naphthalene



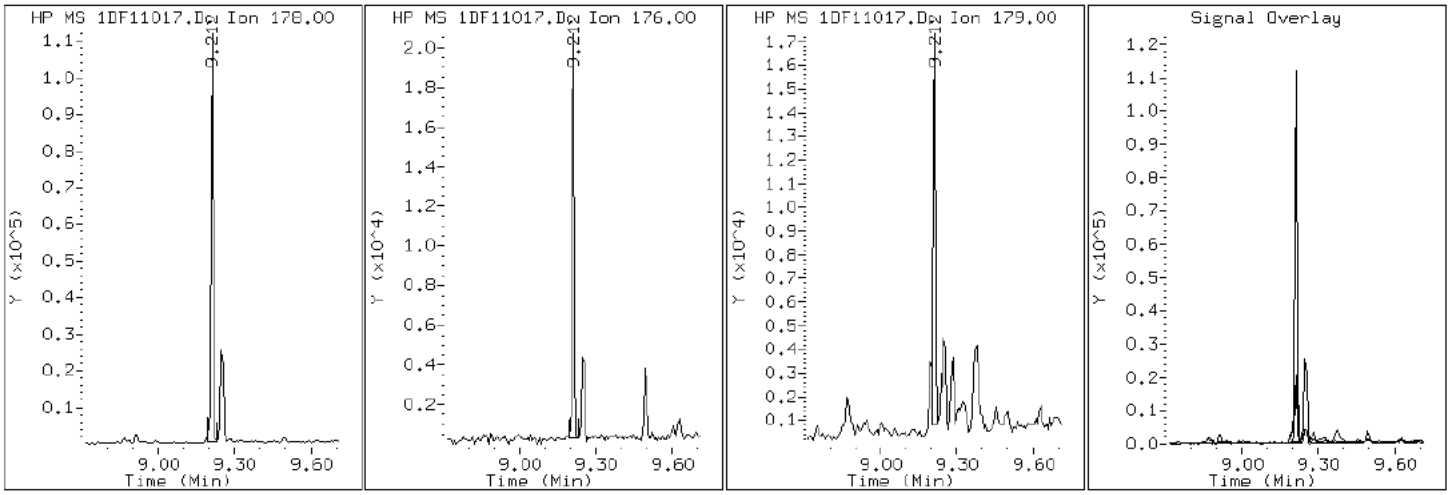
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

12 Phenanthrene



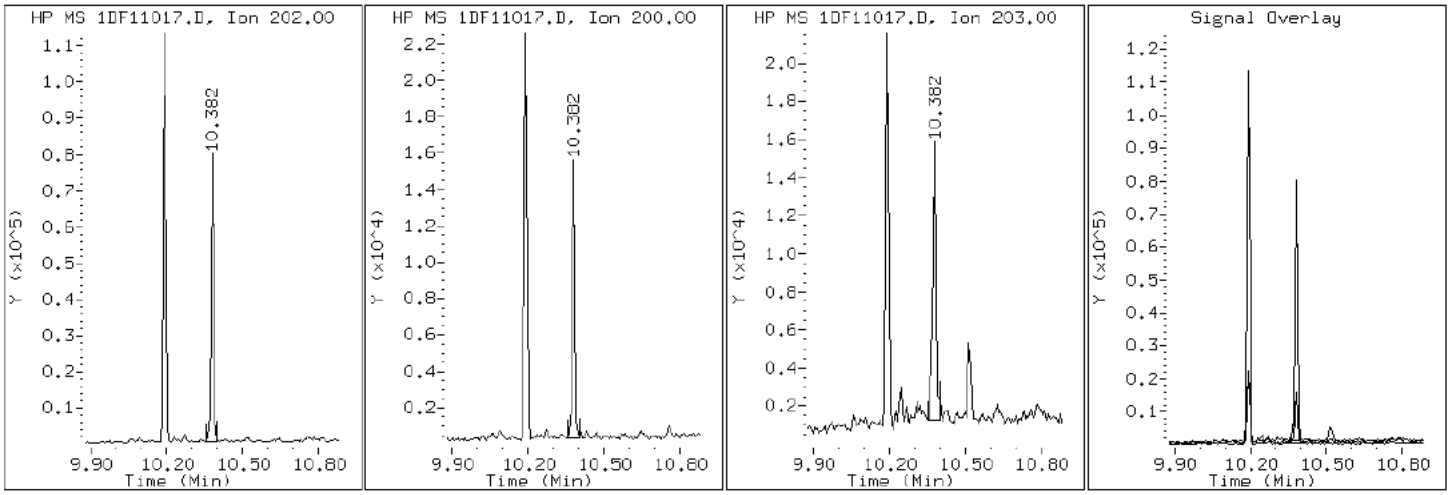
Data File: 1DF11017.D

Date: 11-JUN-2013 17:16

Client ID: FM0308E-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-14-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11017.D
Inj. Date and Time: 11-JUN-2013 17:16
Instrument ID: BSMSD.i
Client ID: FM0308E-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

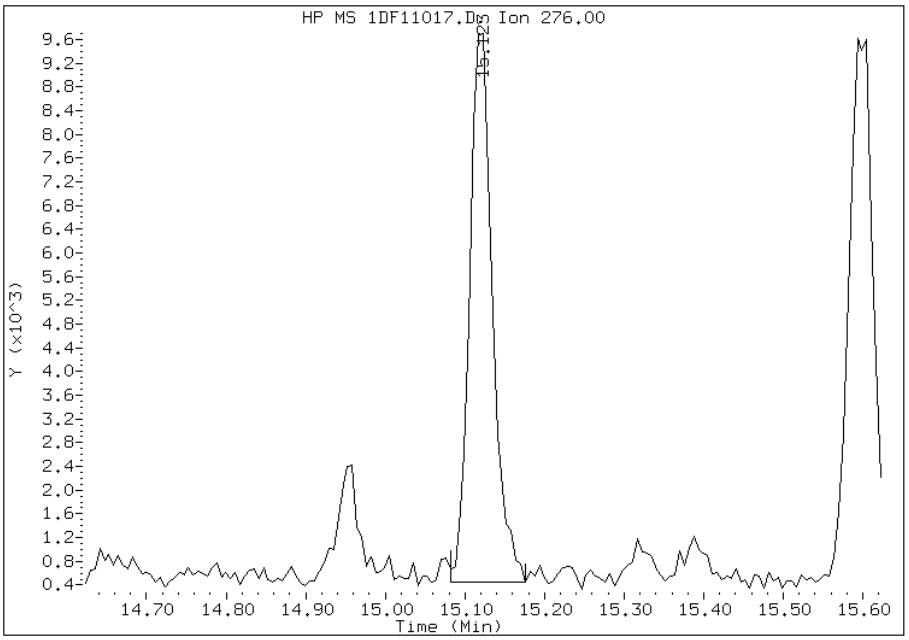
Processing Integration Results

RT: 15.12

Response: 18511

Amount: 0

Conc: 132



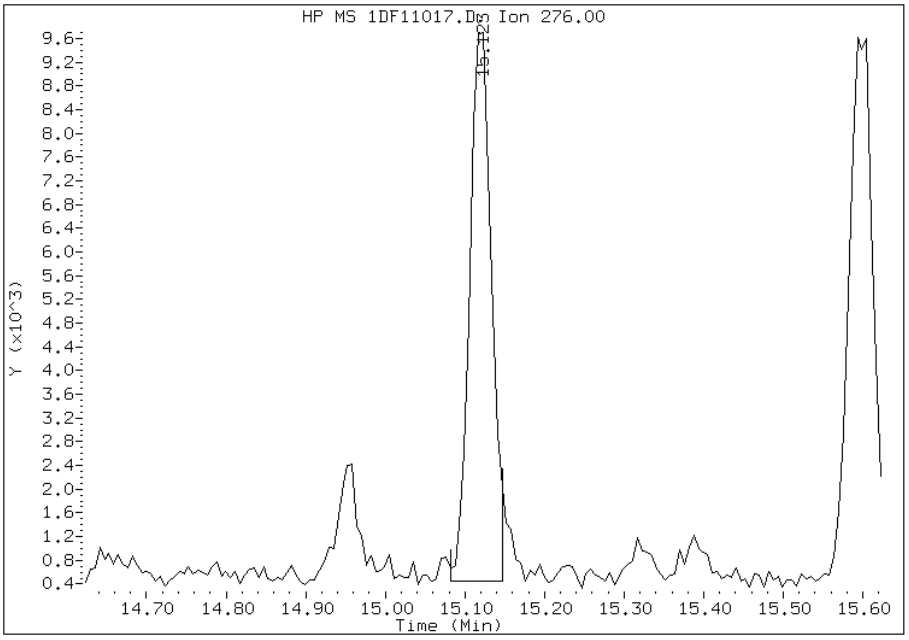
Manual Integration Results

RT: 15.12

Response: 17617

Amount: 0

Conc: 128



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0308F-CS | Lab Sample ID: 680-90855-15

Matrix: Solid | Lab File ID: 1DF11018.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 10:00

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.11(g) | Date Analyzed: 06/11/2013 17:38

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

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

% Moisture: 13.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	180	U	180	23
120-12-7	Anthracene	22	J	38	19
56-55-3	Benzo[a]anthracene	110		37	18
50-32-8	Benzo[a]pyrene	130		48	24
205-99-2	Benzo[b]fluoranthene	170		56	28
191-24-2	Benzo[g,h,i]perylene	72	J	92	20
207-08-9	Benzo[k]fluoranthene	62		37	16
218-01-9	Chrysene	130		41	21
53-70-3	Dibenz(a,h)anthracene	42	J	92	19
206-44-0	Fluoranthene	160		92	18
86-73-7	Fluorene	92	U	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	110		92	33
90-12-0	1-Methylnaphthalene	42	J	180	20
91-57-6	2-Methylnaphthalene	71	J	180	33
91-20-3	Naphthalene	73	J	180	20
85-01-8	Phenanthrene	120		37	18
129-00-0	Pyrene	130		92	17

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\1D061113.b\1DF11018.D
Lab Smp Id: 680-90855-A-15-A Client Smp ID: FM0308F-CS
Inj Date : 11-JUN-2013 17:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-15-a
Misc Info : 680-90855-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 18
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	13.295	% 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	6.266	6.260	(1.000)	3548105	40.0000	
*	7 Acenaphthene-d10	164	7.935	7.929	(1.000)	2126302	40.0000	
*	11 Phenanthrene-d10	188	9.192	9.192	(1.000)	3384878	40.0000	
$	15 o-Terphenyl	230	9.498	9.497	(1.033)	89159	1.79795	550
*	19 Chrysene-d12	240	11.566	11.560	(1.000)	3035666	40.0000	
*	24 Perylene-d12	264	13.481	13.469	(1.000)	2727467	40.0000	
	2 Naphthalene	128	6.284	6.284	(1.003)	21053	0.24061	73
	3 2-Methylnaphthalene	142	6.983	6.977	(1.114)	12931	0.23211	71
	4 1-Methylnaphthalene	142	7.077	7.071	(1.129)	7856	0.13697	42
	6 Acenaphthylene	152	7.805	7.799	(0.984)	5016	0.05690	17
	12 Phenanthrene	178	9.210	9.210	(1.002)	36454	0.39765	120
	13 Anthracene	178	9.251	9.251	(1.006)	6310	0.07094	22
	16 Fluoranthene	202	10.191	10.191	(1.109)	48274	0.51473	160
	17 Pyrene	202	10.379	10.379	(0.897)	37392	0.42072	130

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	11.548	11.536	(0.998)	32614	0.36201	110
20 Chrysene	228	11.583	11.583	(1.002)	34217	0.42178	130
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.957)	37744	0.55239	170
22 Benzo(k)fluoranthene	252	12.935	12.940	(0.959)	14601	0.20406	62
23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	21189	0.41171	120
25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.122)	14226	0.34870	110(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.156	(1.123)	4318	0.13821	42
27 Benzo(g,h,i)perylene	276	15.590	15.602	(1.156)	14653	0.23660	72

QC Flag Legend

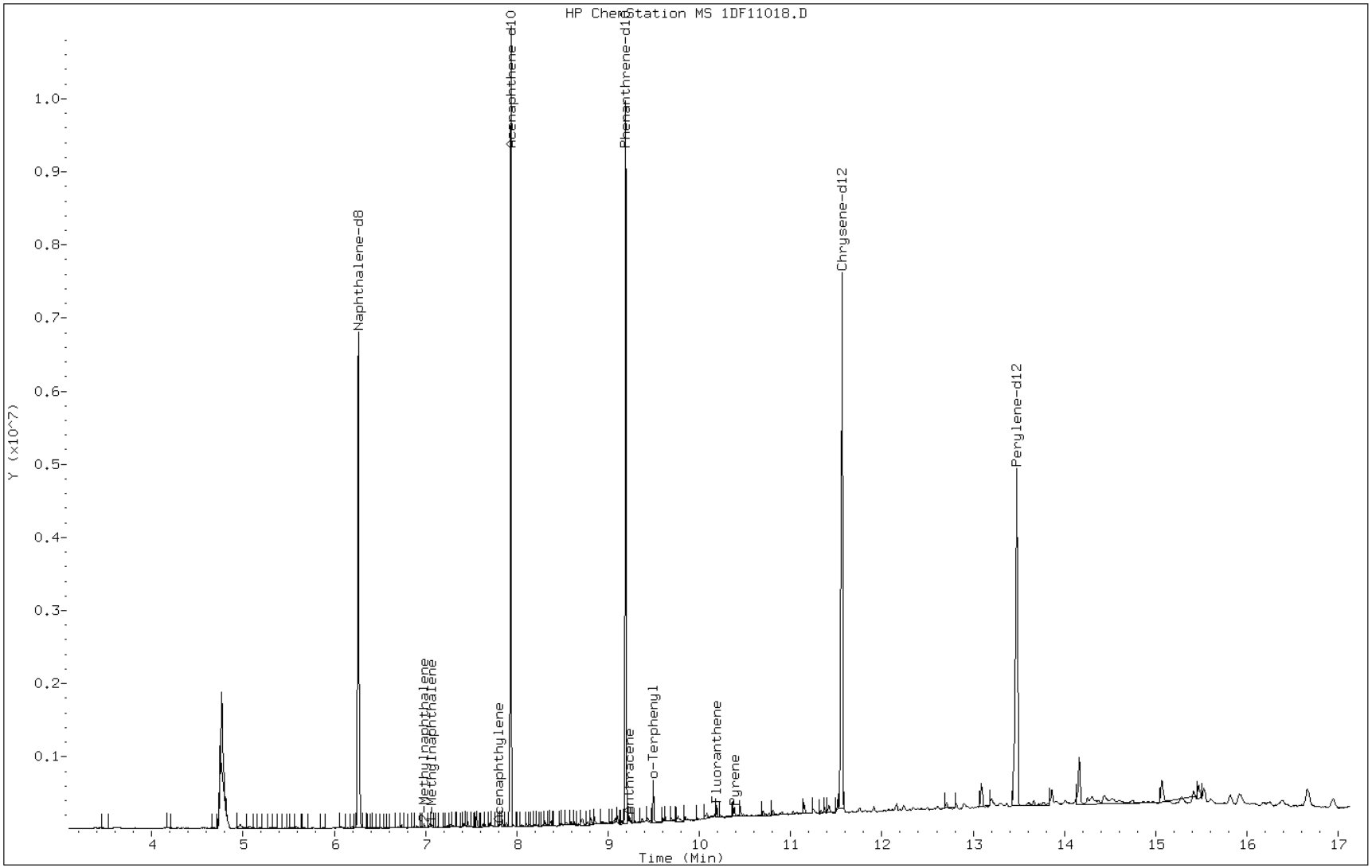
M - Compound response manually integrated.

Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC



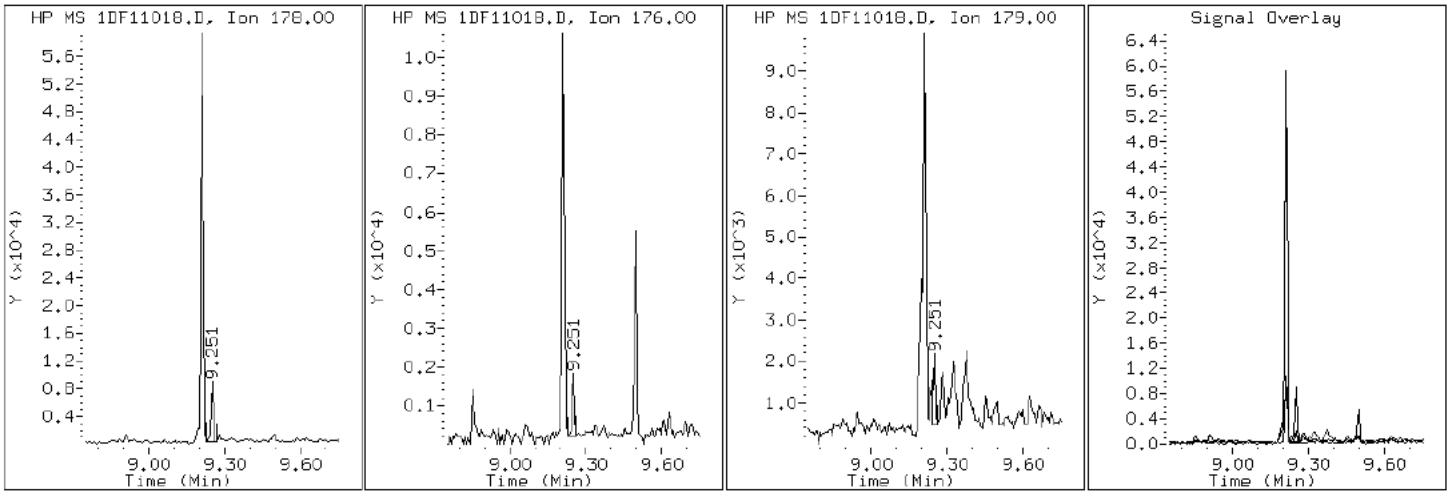
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

13 Anthracene



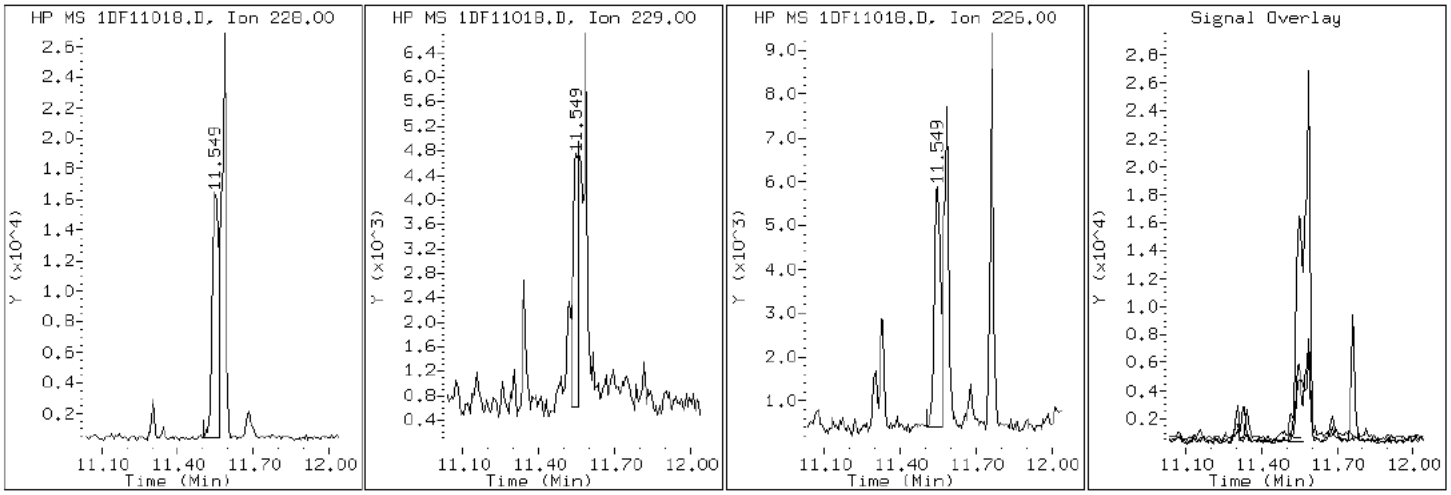
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

18 Benzo(a)anthracene



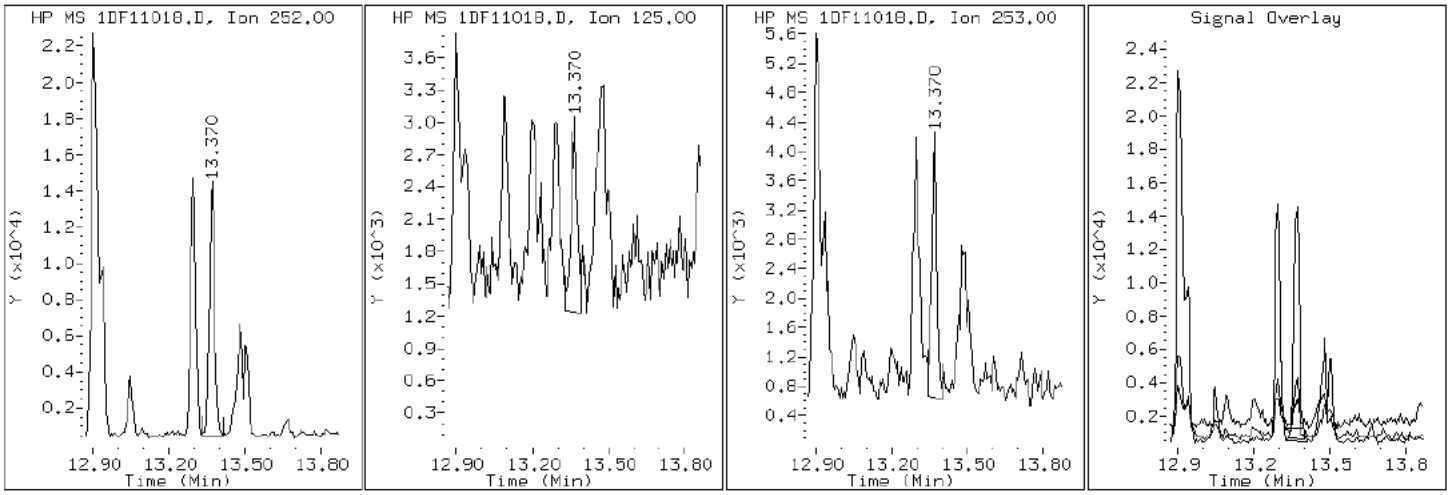
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

23 Benzo(a)pyrene



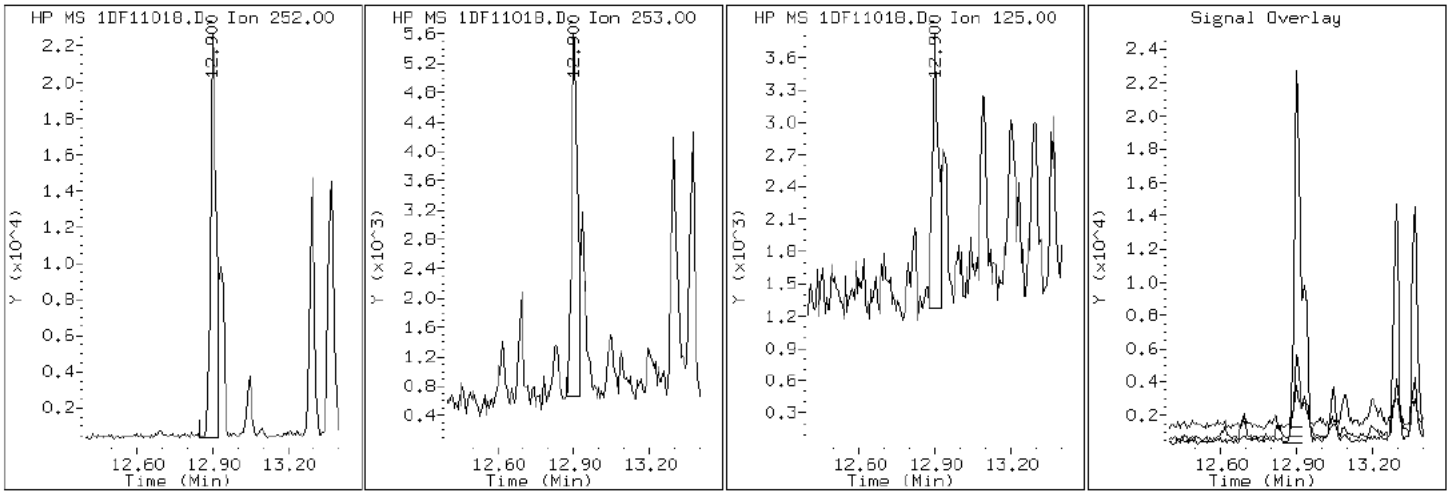
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

21 Benzo(b)fluoranthene



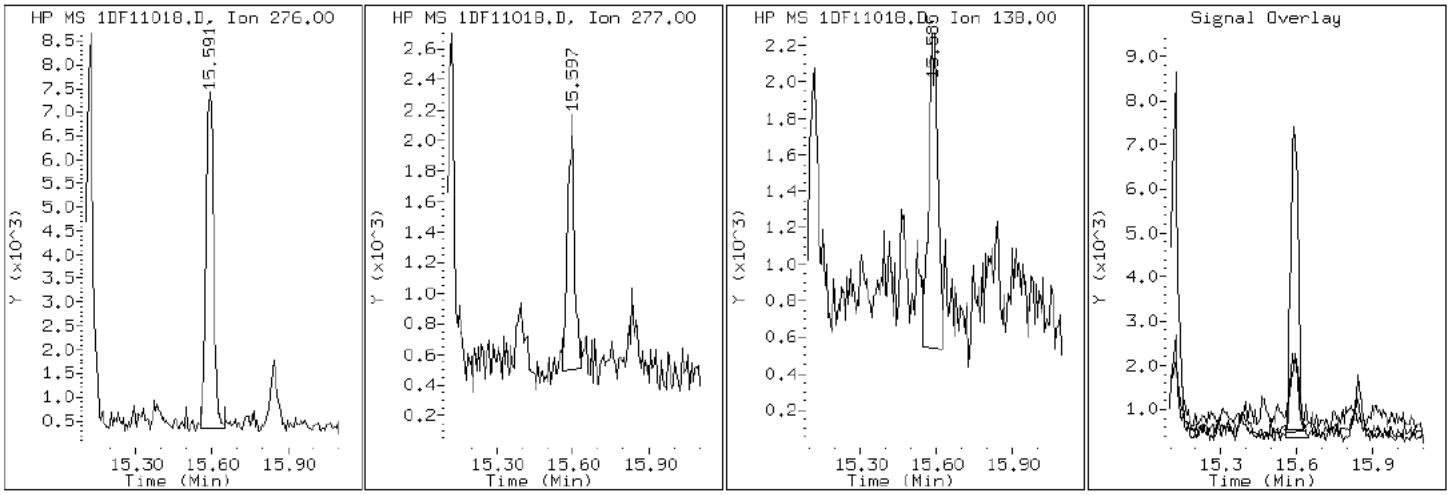
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

27 Benzo(g,h,i)perylene



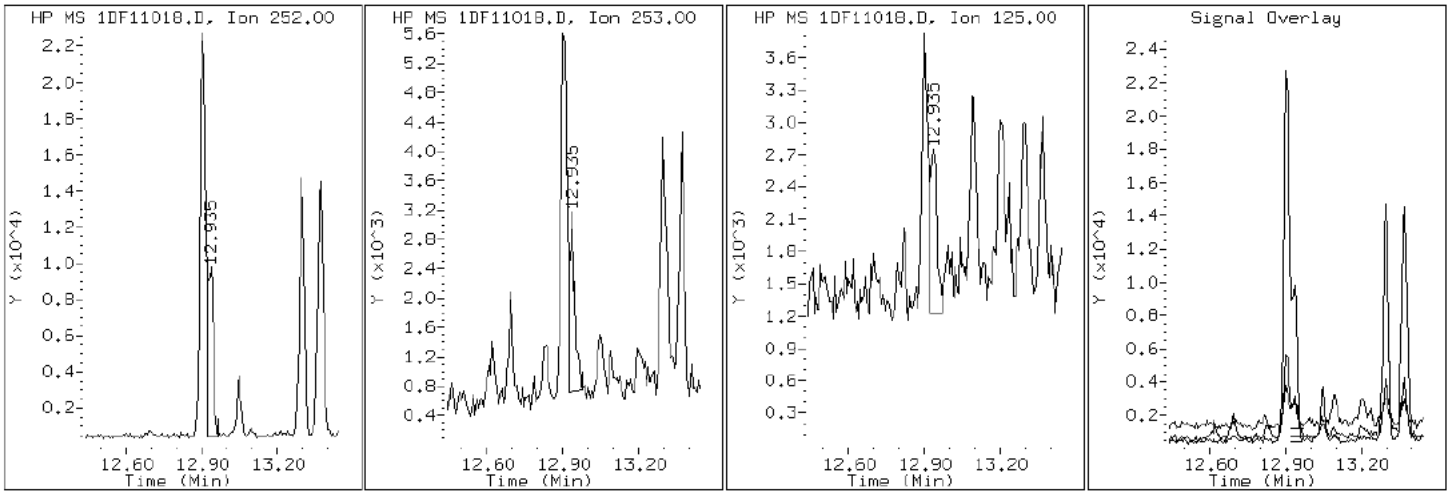
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

22 Benzo(k)fluoranthene



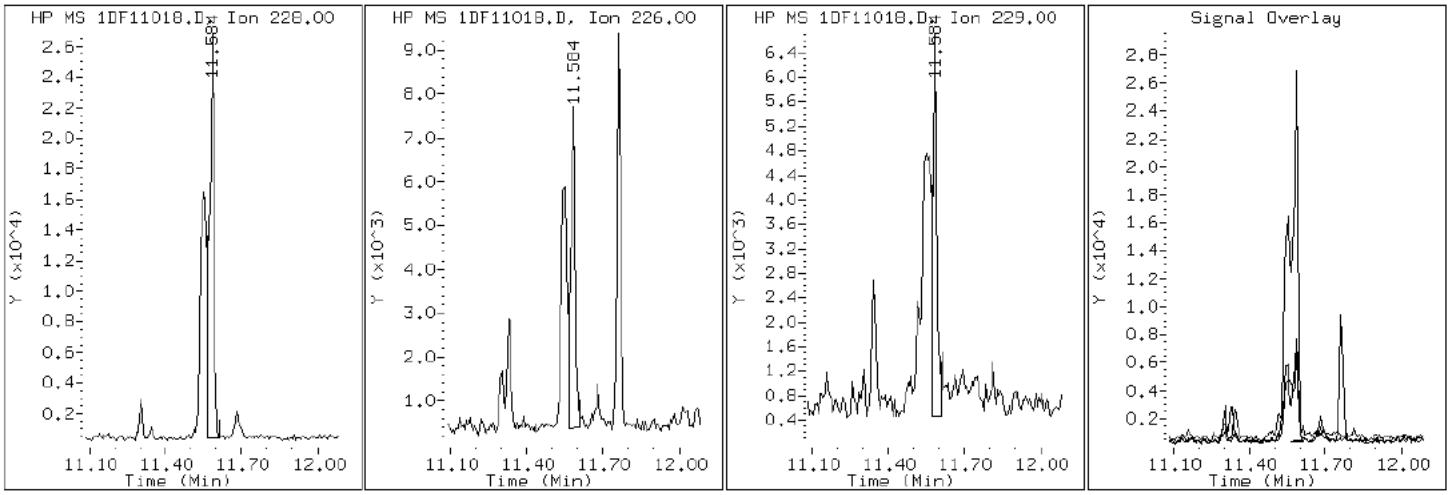
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

20 Chrysene



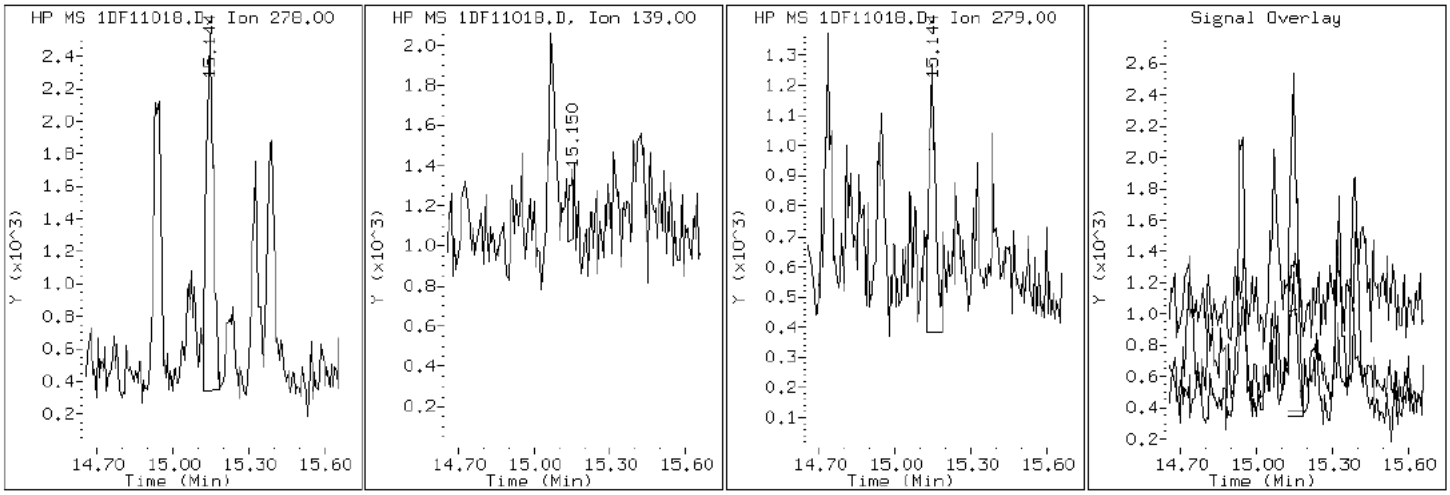
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

26 Dibenzo(a,h)anthracene



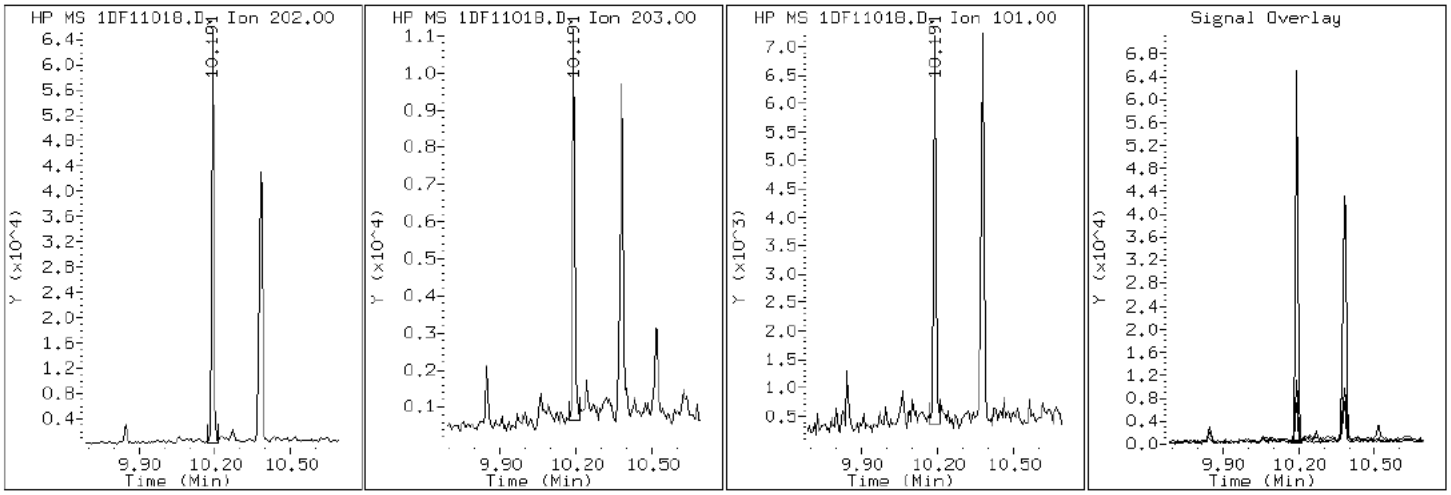
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

16 Fluoranthene



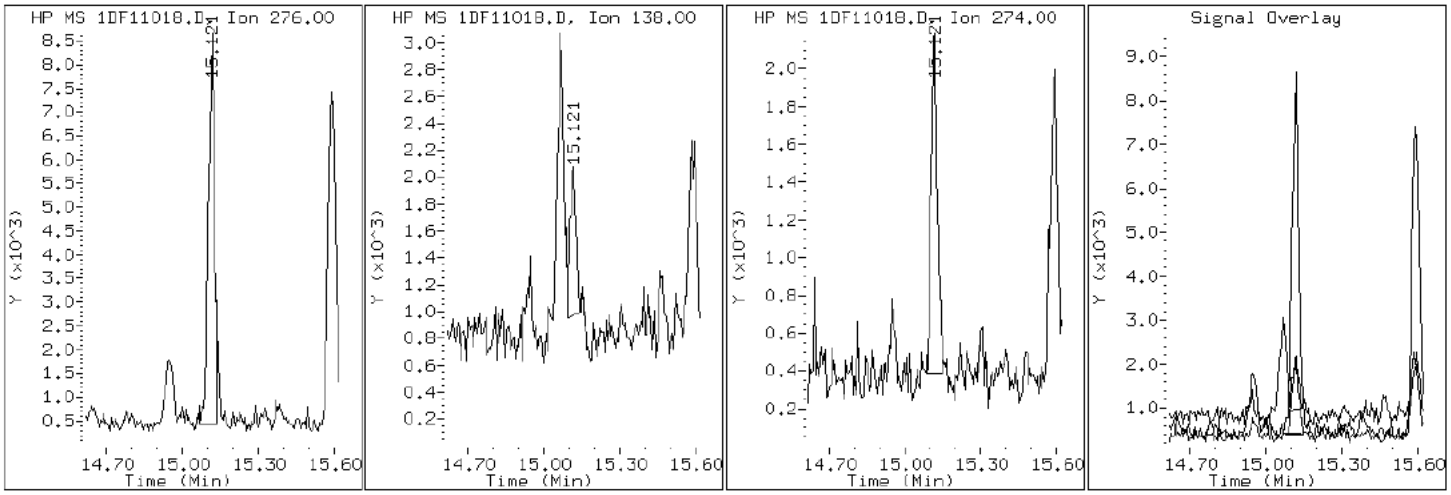
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

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



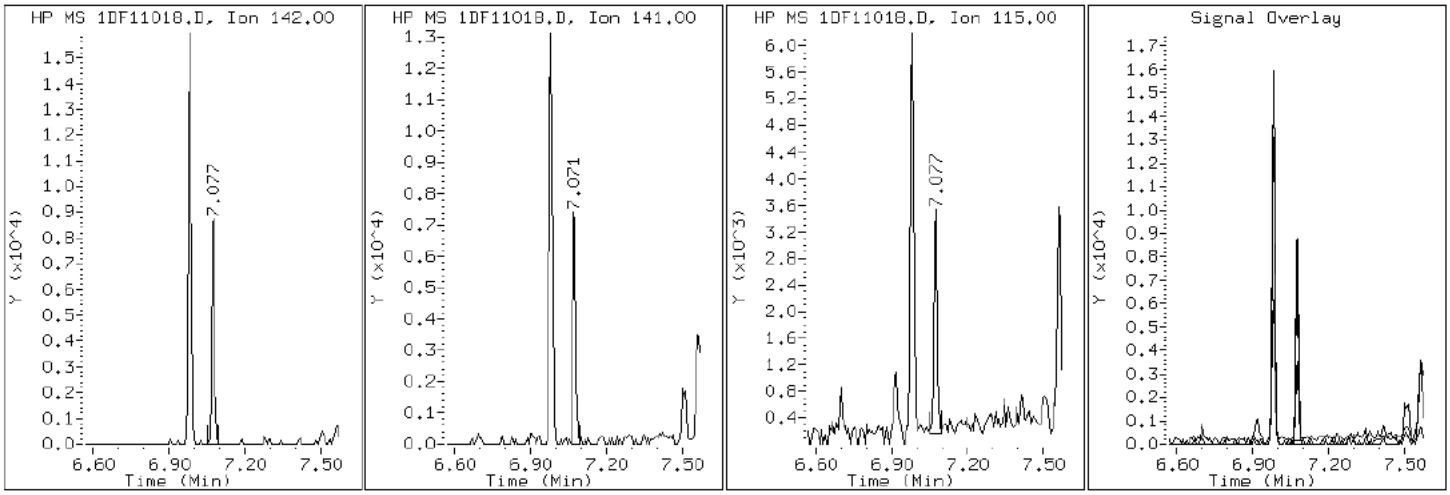
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

4 1-Methylnaphthalene



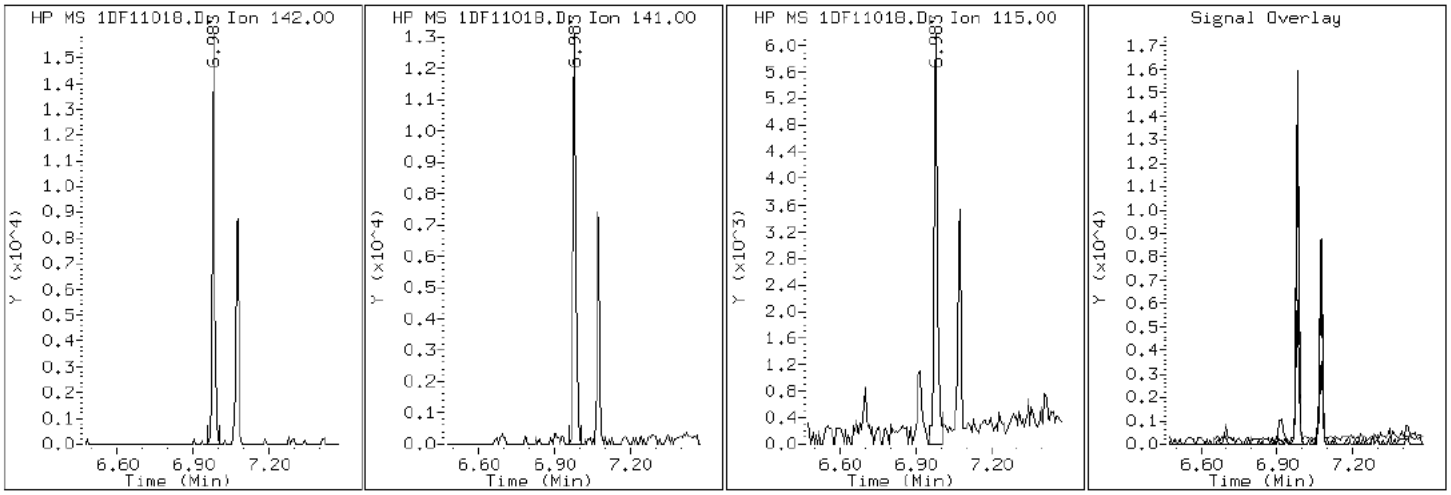
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

3 2-Methylnaphthalene



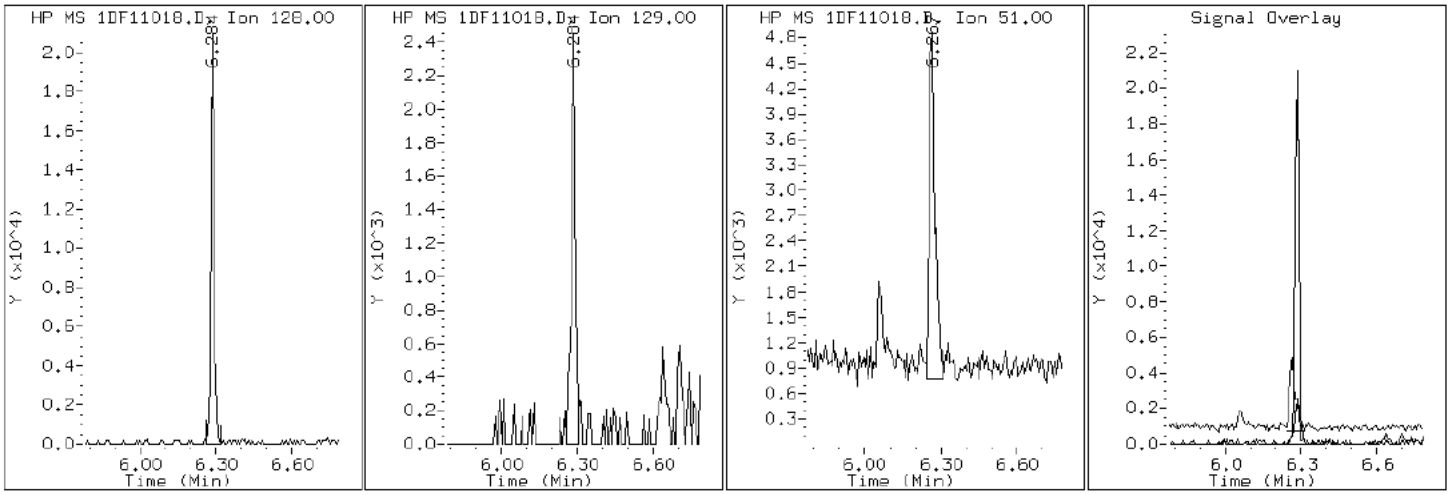
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

2 Naphthalene



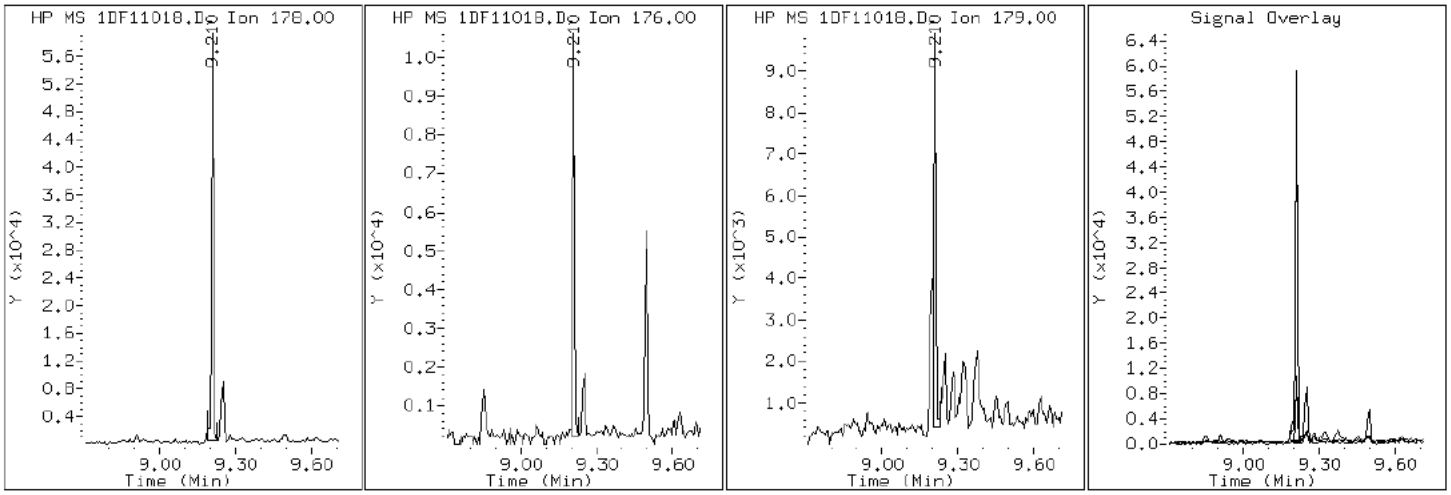
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

12 Phenanthrene



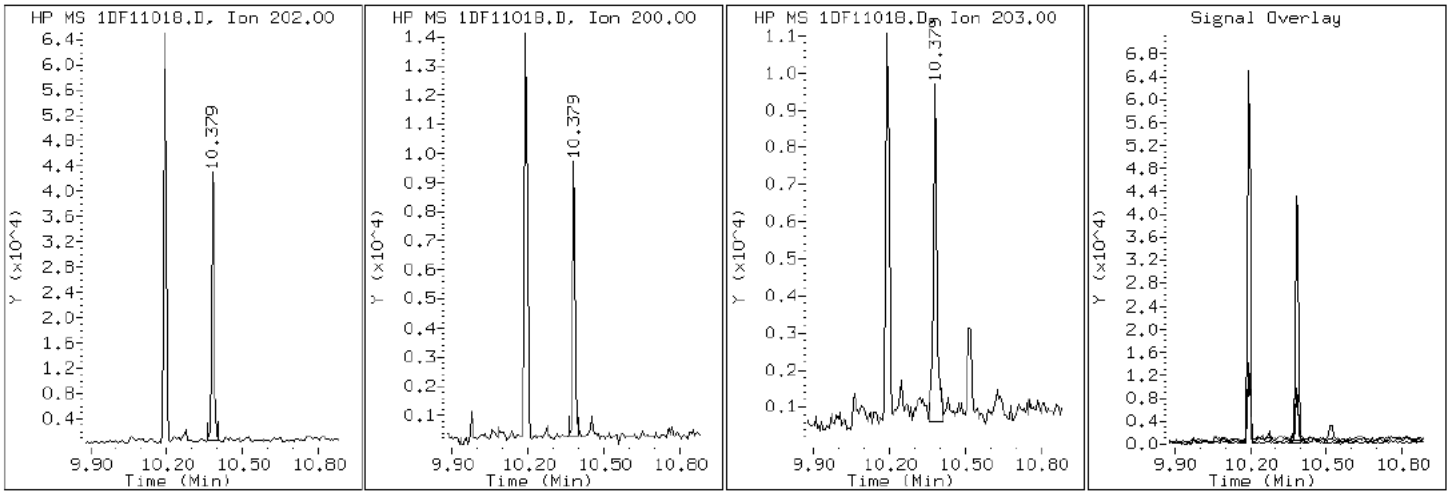
Data File: 1DF11018.D

Date: 11-JUN-2013 17:38

Client ID: FM0308F-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-15-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11018.D
Inj. Date and Time: 11-JUN-2013 17:38
Instrument ID: BSMSD.i
Client ID: FM0308F-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

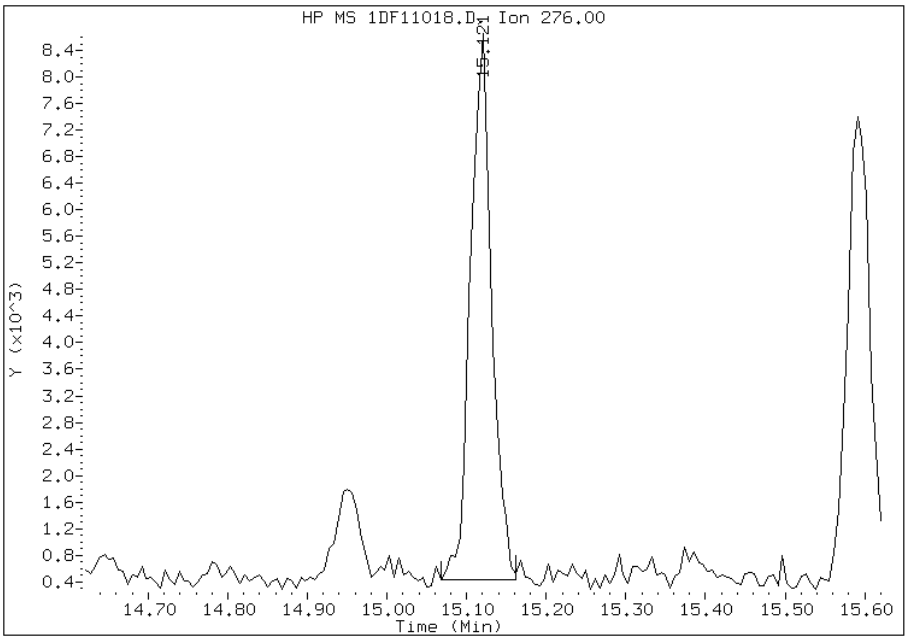
Processing Integration Results

RT: 15.12

Response: 15092

Amount: 0

Conc: 110



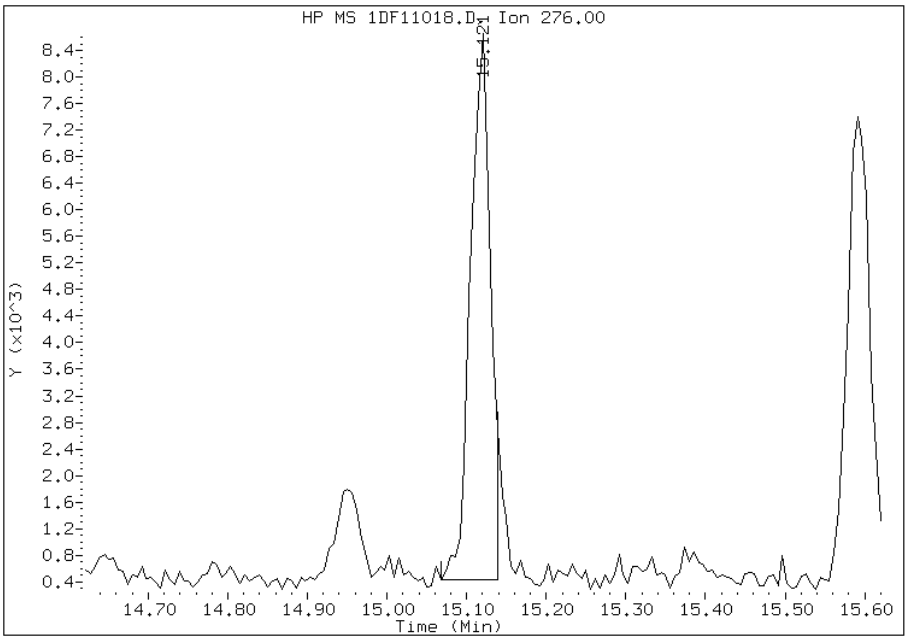
Manual Integration Results

RT: 15.12

Response: 14226

Amount: 0

Conc: 106



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0097A-CS | Lab Sample ID: 680-90855-16

Matrix: Solid | Lab File ID: 1DF11019.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 13:10

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.00(g) | Date Analyzed: 06/11/2013 18:01

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

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

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	12	J	48	6.0
120-12-7	Anthracene	23		10	5.0
56-55-3	Benzo[a]anthracene	76		9.6	4.7
50-32-8	Benzo[a]pyrene	76		12	6.2
205-99-2	Benzo[b]fluoranthene	140		15	7.3
191-24-2	Benzo[g,h,i]perylene	49		24	5.3
207-08-9	Benzo[k]fluoranthene	44		9.6	4.3
218-01-9	Chrysene	120		11	5.4
53-70-3	Dibenz(a,h)anthracene	23	J	24	4.9
206-44-0	Fluoranthene	130		24	4.8
86-73-7	Fluorene	9.7	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	55		24	8.5
90-12-0	1-Methylnaphthalene	48		48	5.3
91-57-6	2-Methylnaphthalene	78		48	8.5
91-20-3	Naphthalene	86		48	5.3
85-01-8	Phenanthrene	130		9.6	4.7
129-00-0	Pyrene	100		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11019.D
Lab Smp Id: 680-90855-A-16-A Client Smp ID: FM0097A-CS
Inj Date : 11-JUN-2013 18:01
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-16-a
Misc Info : 680-90855-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 19
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	15.000	Weight Extracted
M	16.328	% 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	6.260	6.260	(1.000)	3735552	40.0000	
*	7 Acenaphthene-d10	164	7.934	7.929	(1.000)	2192076	40.0000	
*	11 Phenanthrene-d10	188	9.198	9.192	(1.000)	3507964	40.0000	
$	15 o-Terphenyl	230	9.497	9.497	(1.033)	325743	6.33832	500
*	19 Chrysene-d12	240	11.565	11.560	(1.000)	3166312	40.0000	
*	24 Perylene-d12	264	13.487	13.469	(1.000)	2805067	40.0000	
	2 Naphthalene	128	6.283	6.284	(1.004)	99832	1.08371	86
	3 2-Methylnaphthalene	142	6.983	6.977	(1.115)	57666	0.98314	78
	4 1-Methylnaphthalene	142	7.071	7.071	(1.129)	36000	0.59618	48
	6 Acenaphthylene	152	7.805	7.799	(0.984)	13225	0.14551	12
	10 Fluorene	166	8.399	8.399	(1.058)	7941	0.12173	9.7(Q)
	12 Phenanthrene	178	9.209	9.210	(1.001)	150727	1.58648	130
	13 Anthracene	178	9.250	9.251	(1.006)	26304	0.28534	23
	16 Fluoranthene	202	10.196	10.191	(1.109)	157164	1.61698	130

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.384	10.379	(0.898)	121344	1.30897	100
18 Benzo(a)anthracene	228	11.548	11.536	(0.998)	89750	0.95510	76
20 Chrysene	228	11.589	11.583	(1.002)	124491	1.47122	120
21 Benzo(b)fluoranthene	252	12.905	12.899	(0.957)	120777	1.71868	140
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.959)	40739	0.55359	44
23 Benzo(a)pyrene	252	13.375	13.369	(0.992)	59279	0.95055	76
25 Indeno(1,2,3-cd)pyrene	276	15.132	15.120	(1.122)	39721	0.69282	55(M)
26 Dibenzo(a,h)anthracene	278	15.155	15.156	(1.124)	14895	0.29415	23
27 Benzo(g,h,i)perylene	276	15.614	15.602	(1.158)	39342	0.61768	49

QC Flag Legend

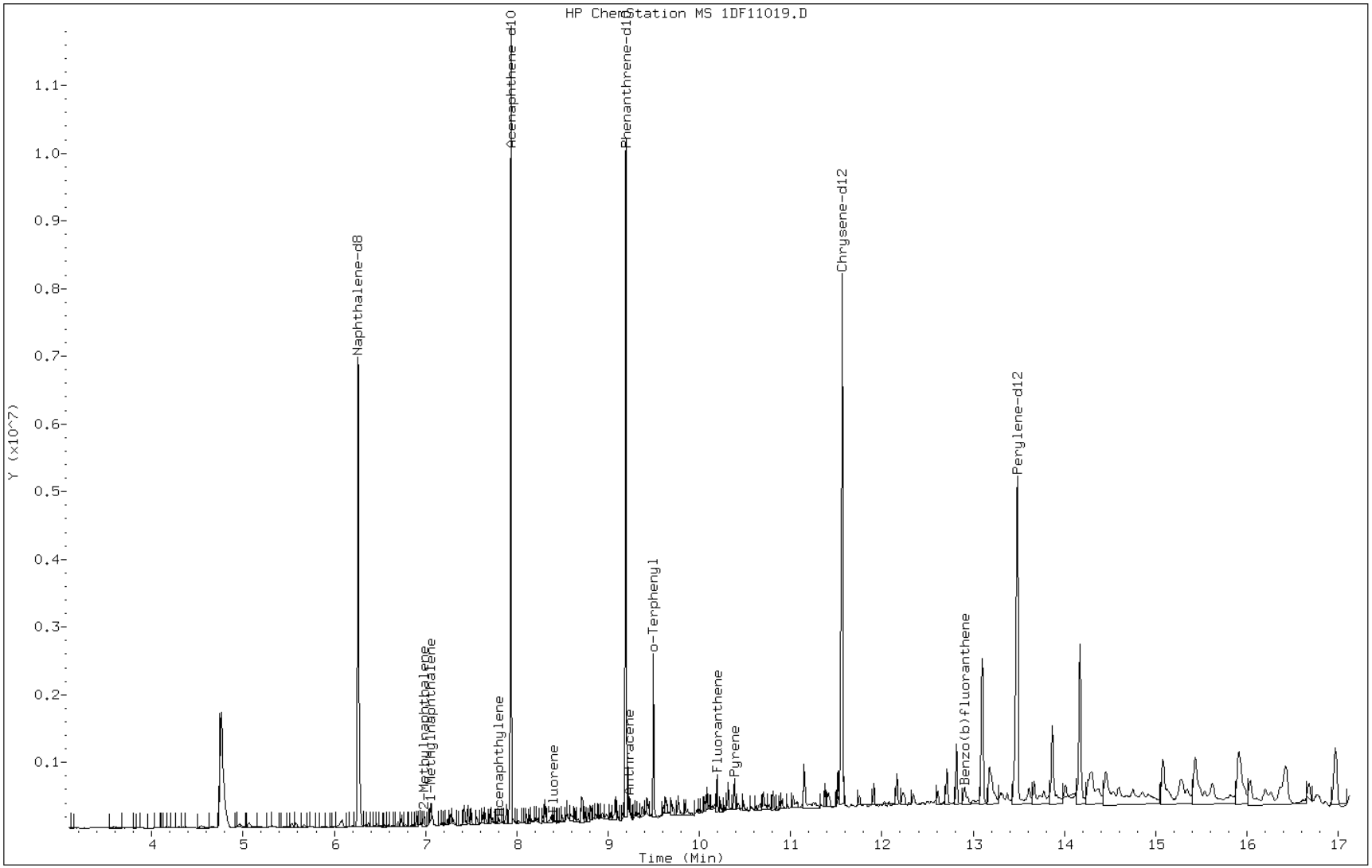
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC



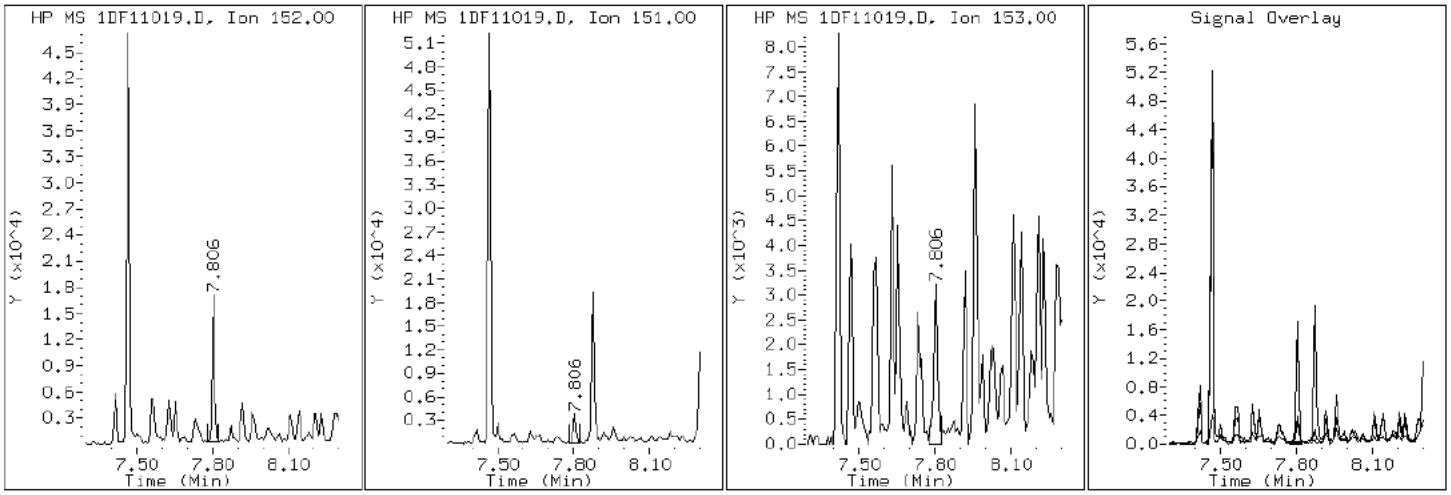
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

6 Acenaphthylene



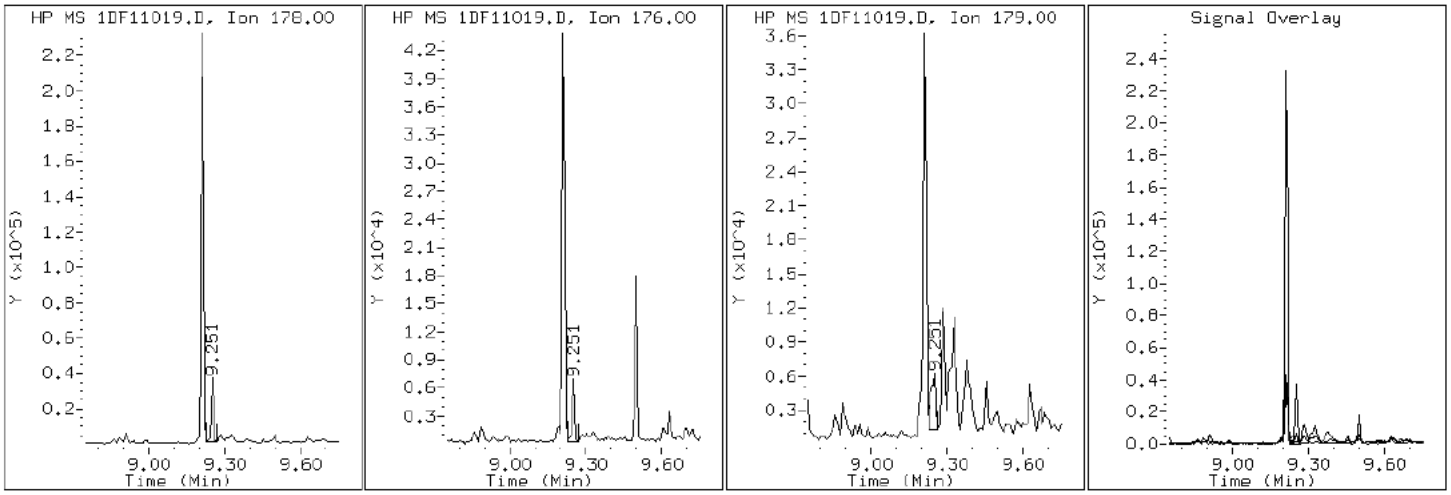
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

13 Anthracene



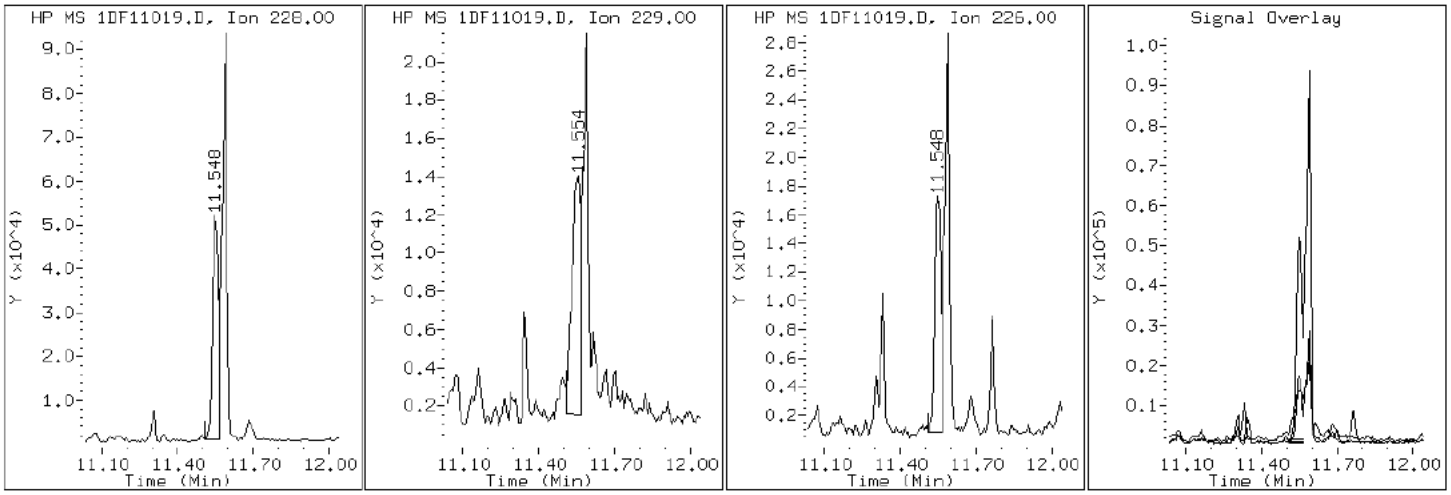
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

18 Benzo(a)anthracene



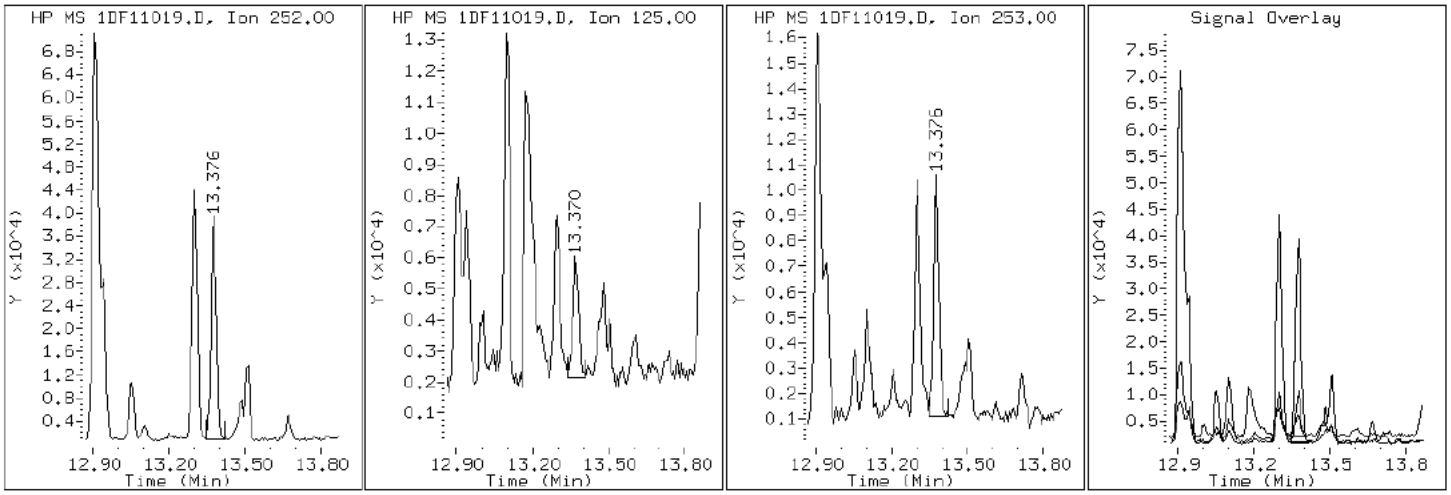
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

23 Benzo(a)pyrene



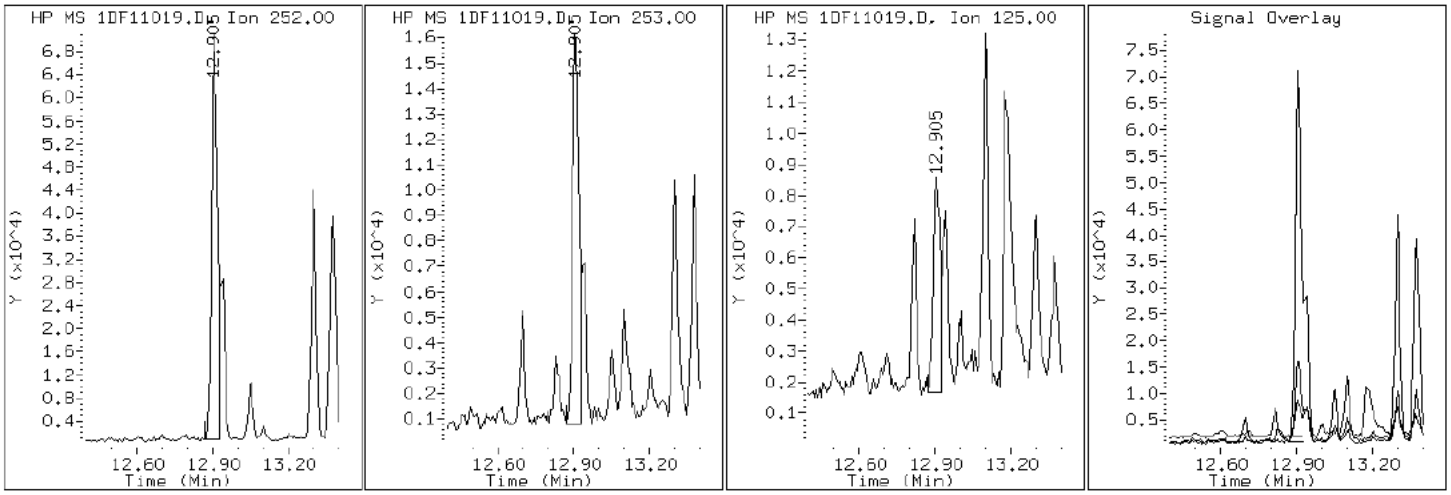
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

21 Benzo(b)fluoranthene



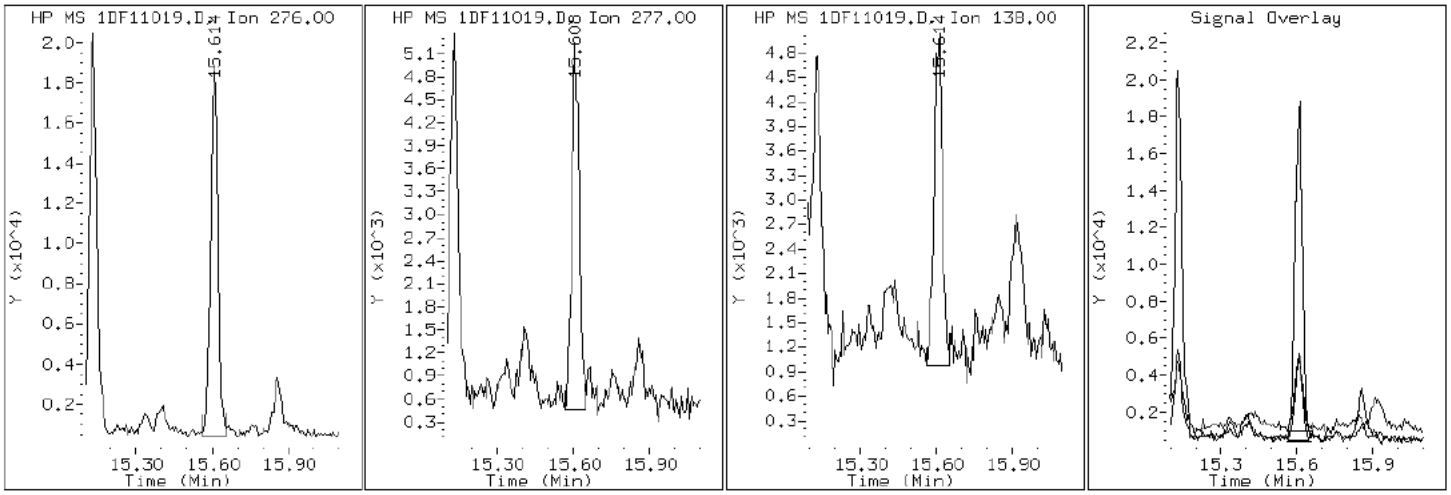
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

27 Benzo(g,h,i)perylene



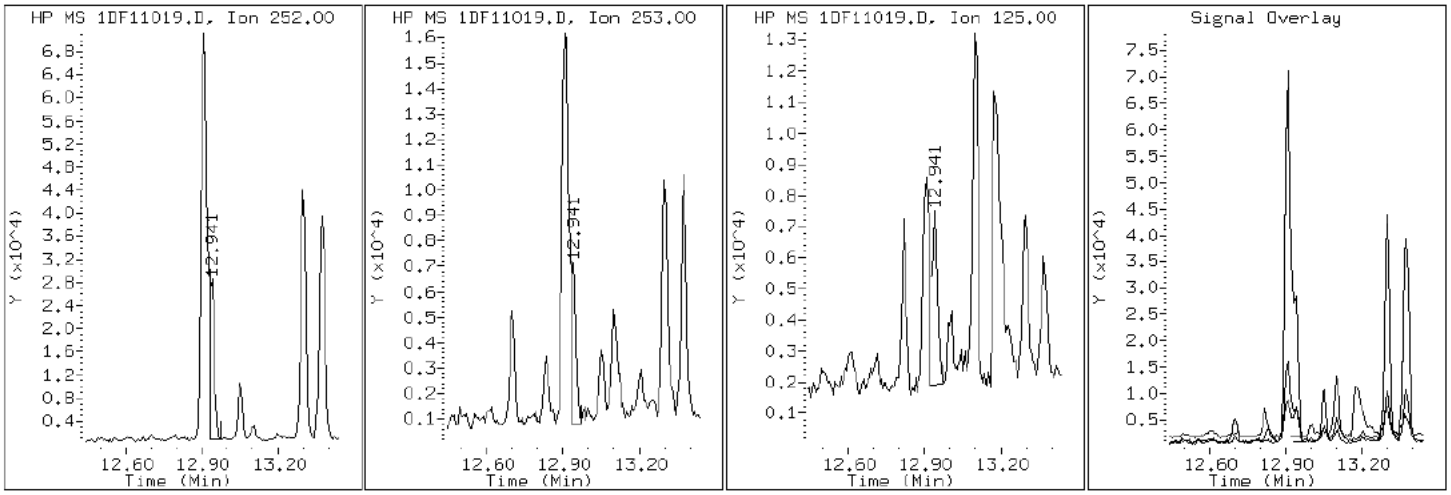
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

22 Benzo(k)fluoranthene



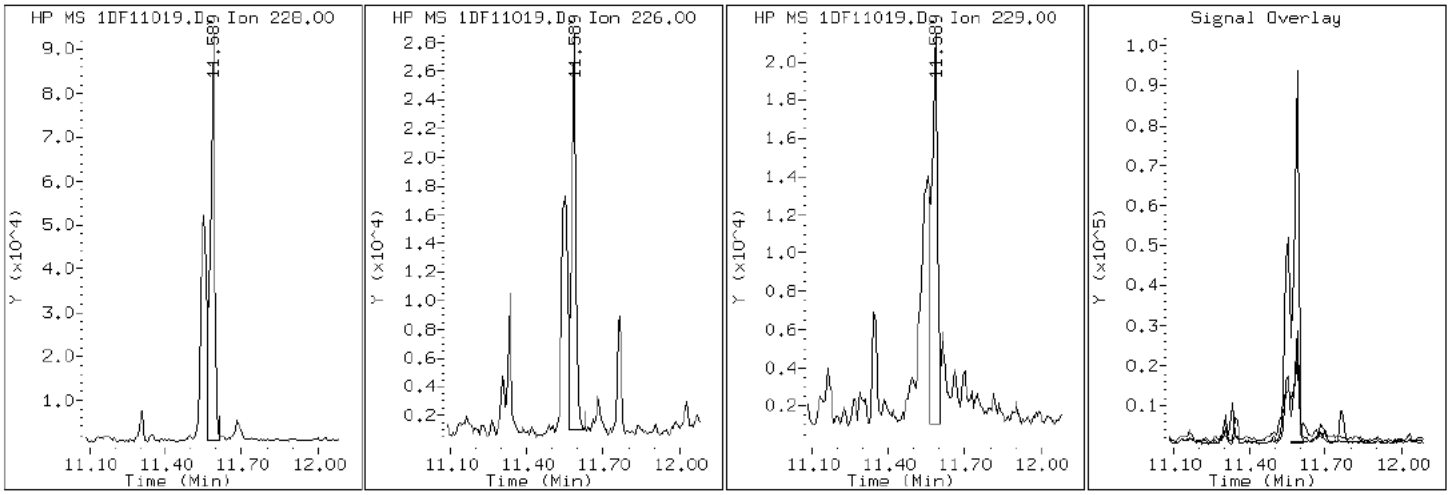
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

20 Chrysene



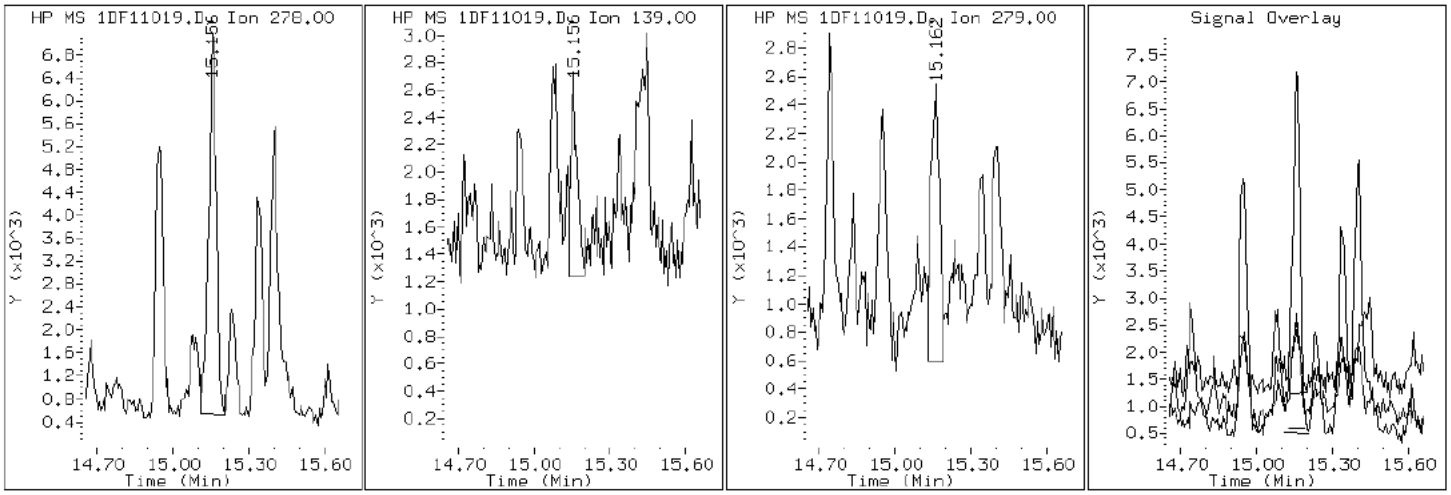
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

26 Dibenzo(a,h)anthracene



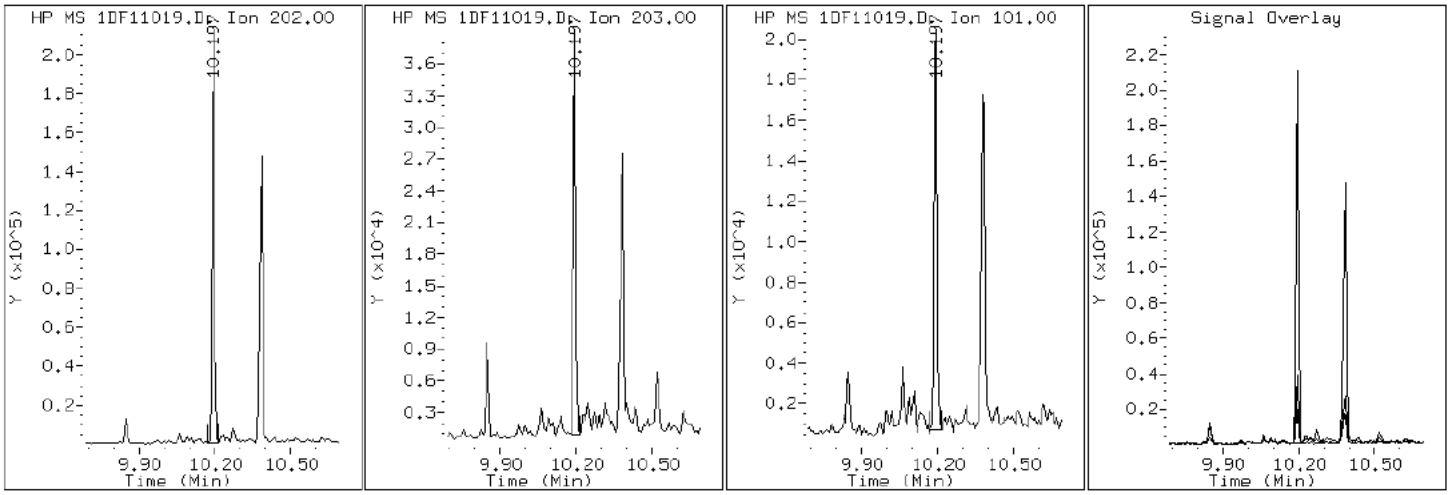
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

16 Fluoranthene



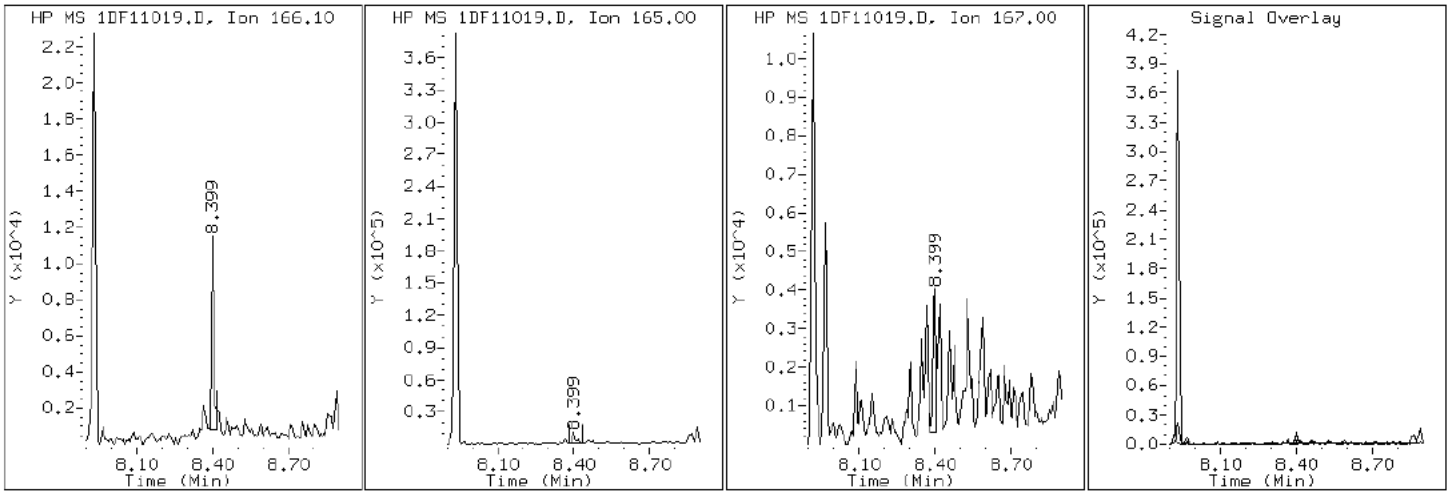
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

10 Fluorene



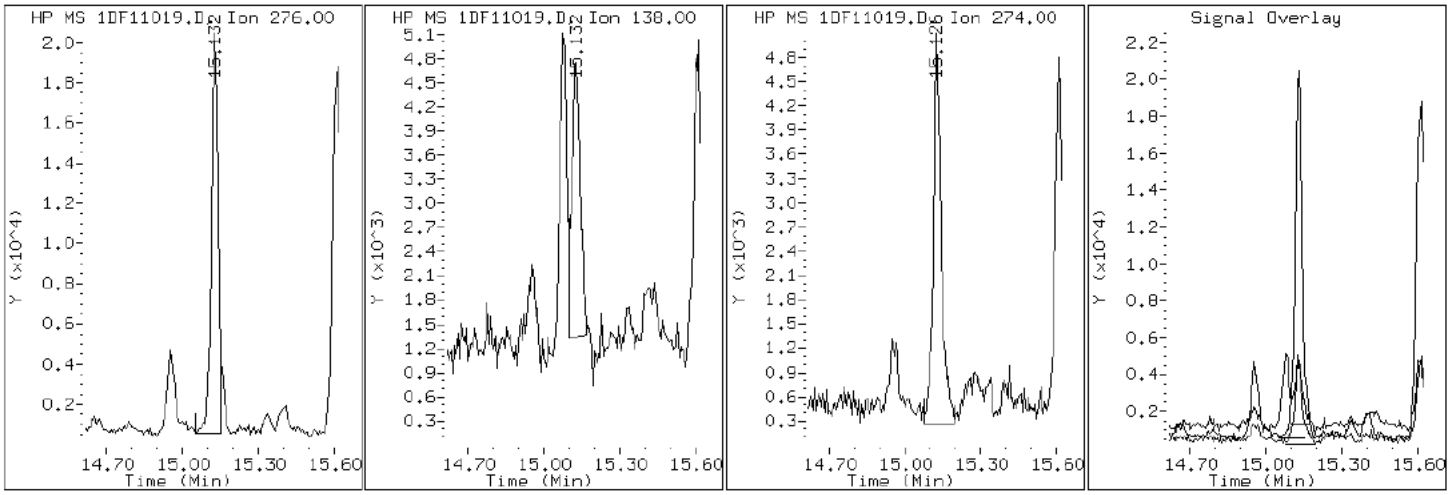
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

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



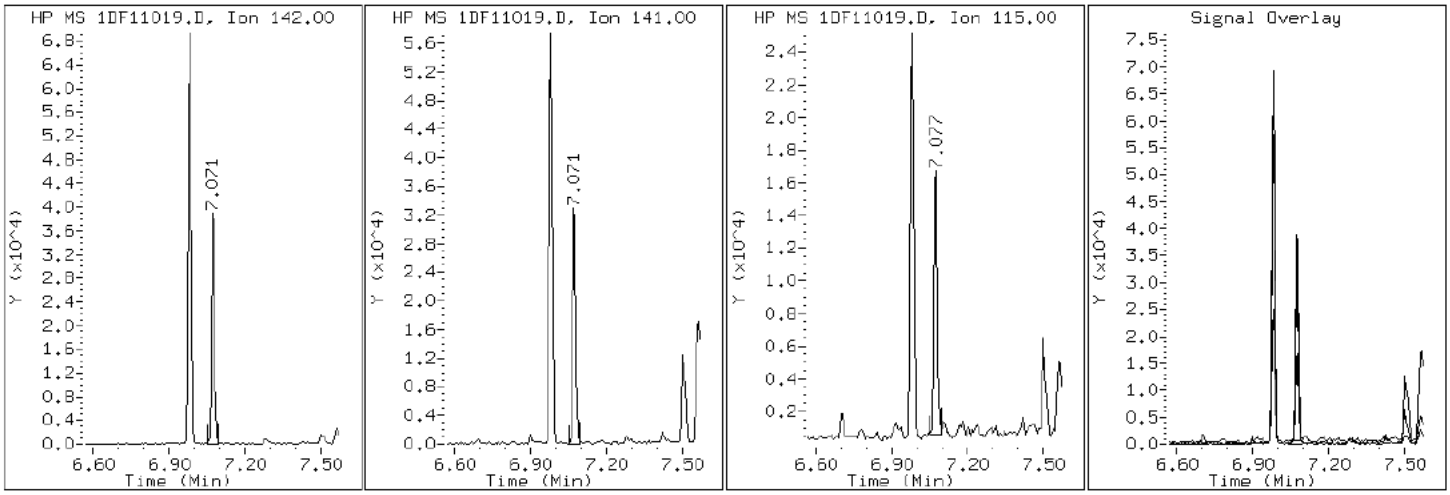
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

4 1-Methylnaphthalene



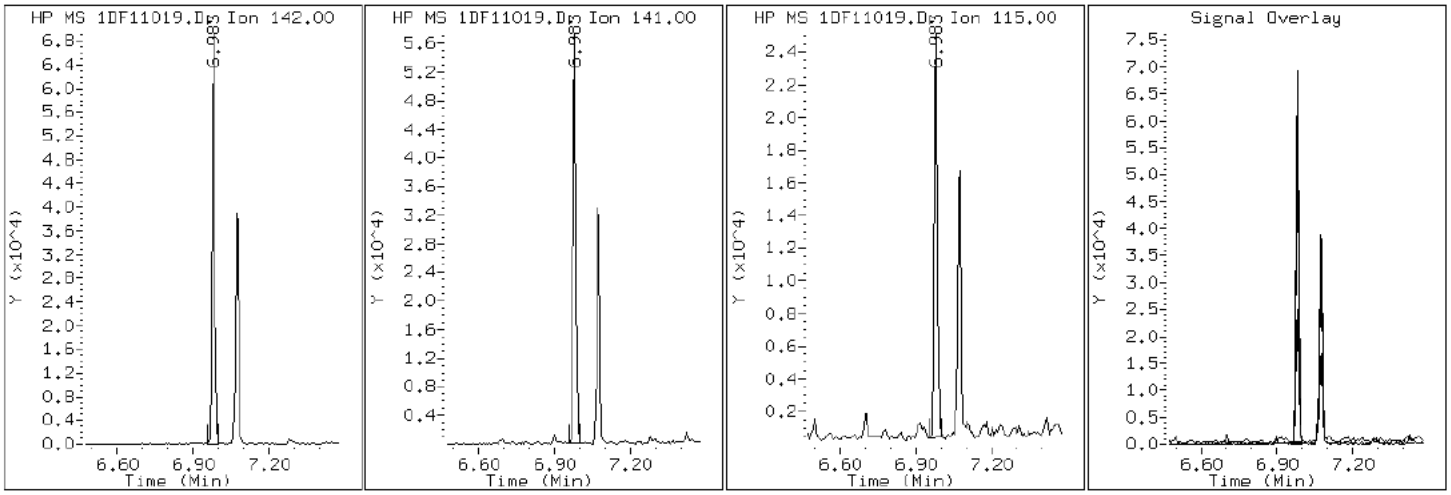
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

3 2-Methylnaphthalene



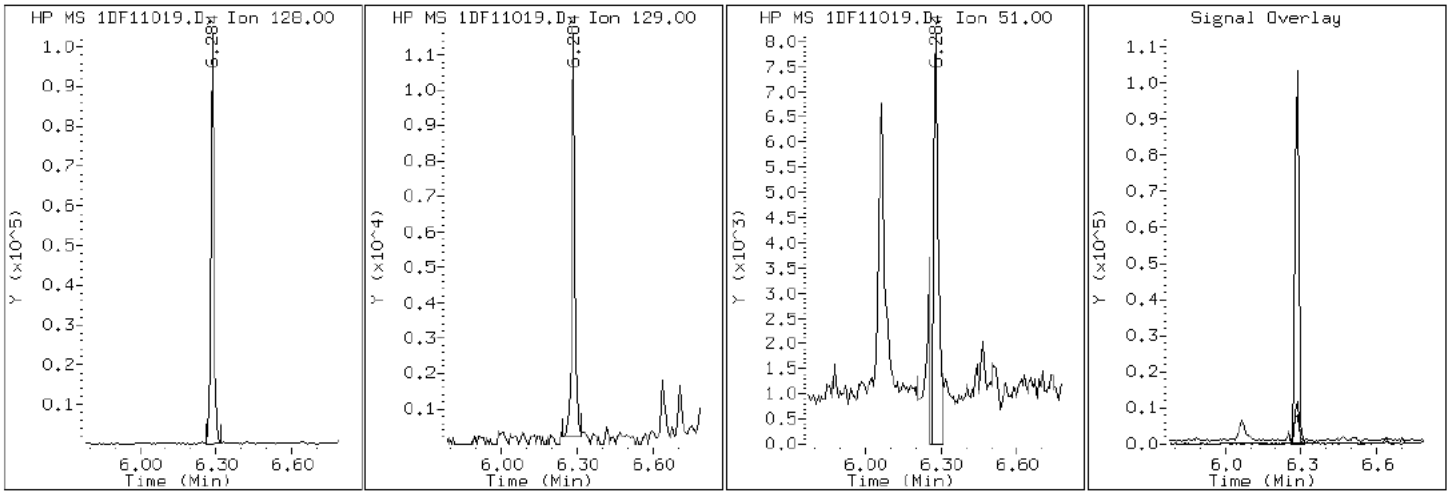
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

2 Naphthalene



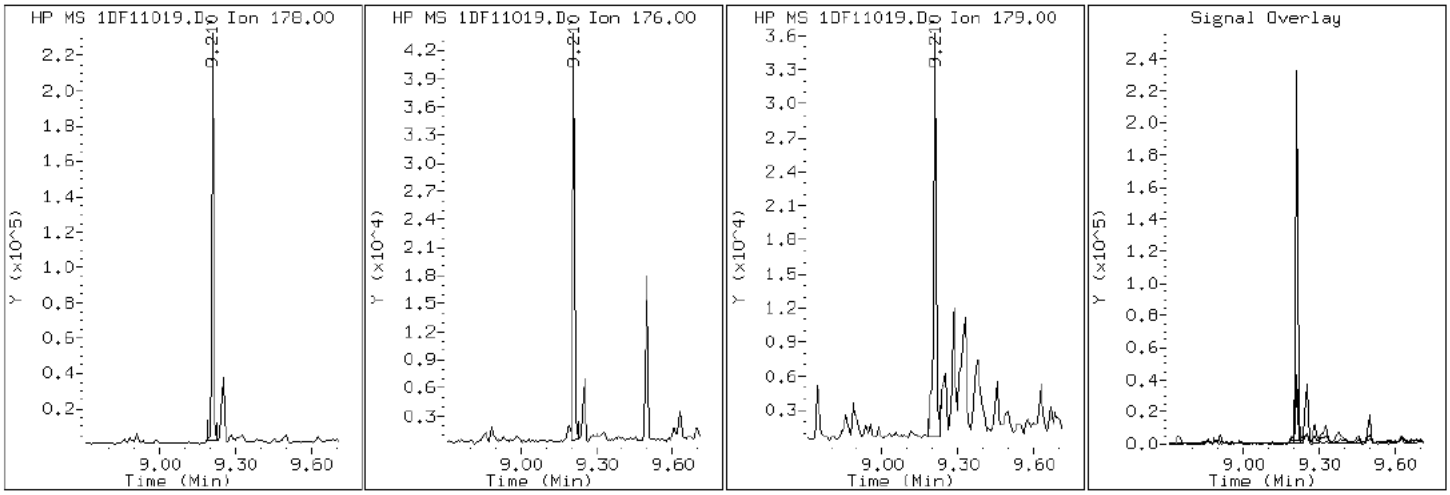
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

12 Phenanthrene



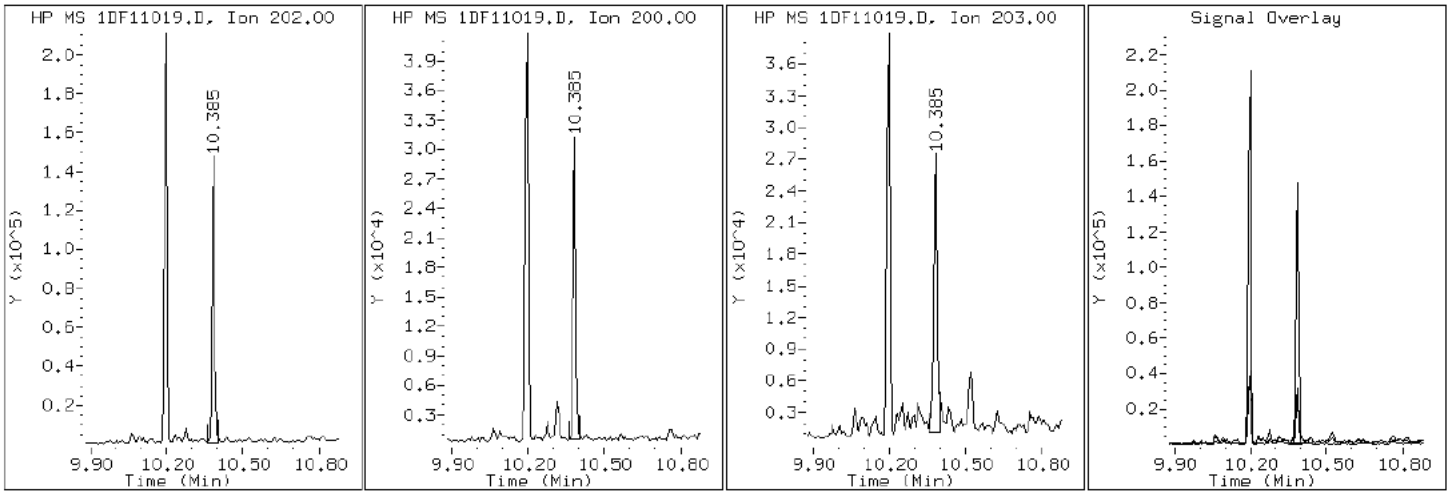
Data File: 1DF11019.D

Date: 11-JUN-2013 18:01

Client ID: FM0097A-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-16-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11019.D
Inj. Date and Time: 11-JUN-2013 18:01
Instrument ID: BSMSD.i
Client ID: FM0097A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

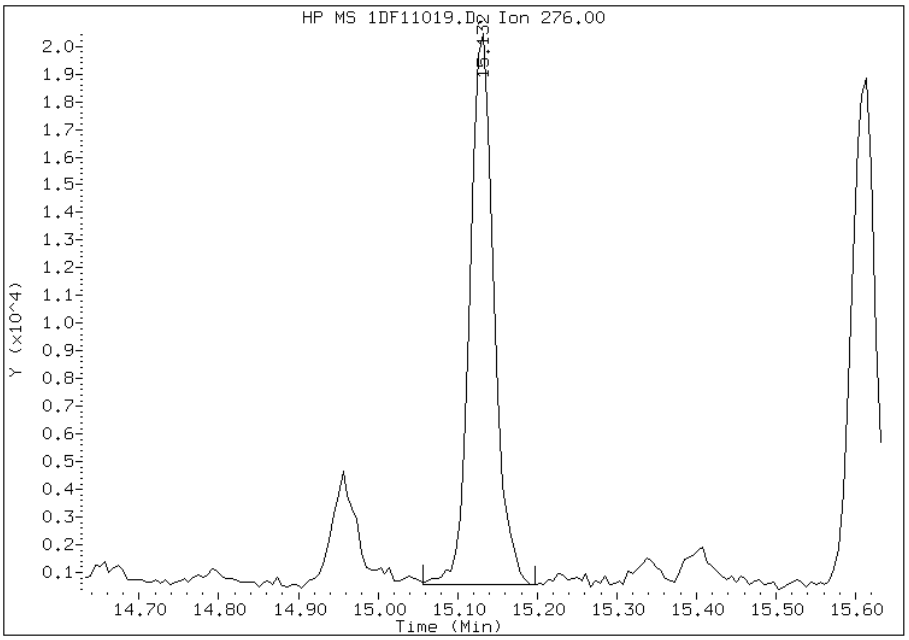
Processing Integration Results

RT: 15.13

Response: 41898

Amount: 1

Conc: 58



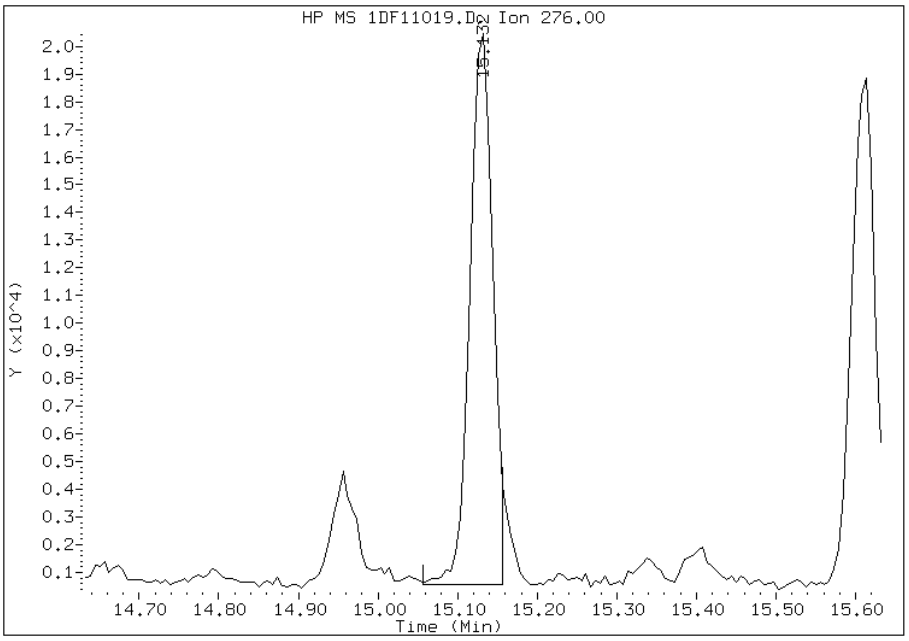
Manual Integration Results

RT: 15.13

Response: 39721

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0097A-CSD | Lab Sample ID: 680-90855-17

Matrix: Solid | Lab File ID: 1DF11020.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 13:10

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 14.92(g) | Date Analyzed: 06/11/2013 18:24

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

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

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	11	J	48	6.0
120-12-7	Anthracene	21		10	5.1
56-55-3	Benzo[a]anthracene	75		9.6	4.7
50-32-8	Benzo[a]pyrene	74		13	6.3
205-99-2	Benzo[b]fluoranthene	130		15	7.4
191-24-2	Benzo[g,h,i]perylene	49		24	5.3
207-08-9	Benzo[k]fluoranthene	41		9.6	4.3
218-01-9	Chrysene	110		11	5.4
53-70-3	Dibenz(a,h)anthracene	23	J	24	4.9
206-44-0	Fluoranthene	120		24	4.8
86-73-7	Fluorene	10	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	54		24	8.6
90-12-0	1-Methylnaphthalene	49		48	5.3
91-57-6	2-Methylnaphthalene	84		48	8.6
91-20-3	Naphthalene	87		48	5.3
85-01-8	Phenanthrene	110		9.6	4.7
129-00-0	Pyrene	91		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11020.D
Lab Smp Id: 680-90855-A-17-A Client Smp ID: FM0097A-CSD
Inj Date : 11-JUN-2013 18:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-17-a
Misc Info : 680-90855-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 20
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	14.920	Weight Extracted
M	16.626	% 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	6.262	6.260	(1.000)	3723372	40.0000	
*	7 Acenaphthene-d10	164	7.937	7.929	(1.000)	2183532	40.0000	
*	11 Phenanthrene-d10	188	9.194	9.192	(1.000)	3451890	40.0000	
$	15 o-Terphenyl	230	9.499	9.497	(1.033)	275050	5.43888	440
*	19 Chrysene-d12	240	11.568	11.560	(1.000)	3118614	40.0000	
*	24 Perylene-d12	264	13.483	13.469	(1.000)	2739638	40.0000	
	2 Naphthalene	128	6.280	6.284	(1.003)	99403	1.08258	87
	3 2-Methylnaphthalene	142	6.979	6.977	(1.114)	60901	1.04169	84
	4 1-Methylnaphthalene	142	7.073	7.071	(1.129)	36318	0.60341	48
	6 Acenaphthylene	152	7.801	7.799	(0.983)	12585	0.13901	11
	10 Fluorene	166	8.401	8.399	(1.058)	8252	0.12699	10
	12 Phenanthrene	178	9.212	9.210	(1.002)	130506	1.39596	110
	13 Anthracene	178	9.253	9.251	(1.006)	23426	0.25825	21
	16 Fluoranthene	202	10.193	10.191	(1.109)	137118	1.43366	120

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.381	10.379	(0.897)	103568	1.13430	91
18 Benzo(a)anthracene	228	11.550	11.536	(0.998)	85922	0.92835	75
20 Chrysene	228	11.591	11.583	(1.002)	110661	1.32778	110
21 Benzo(b)fluoranthene	252	12.907	12.899	(0.957)	113269	1.65033	130
22 Benzo(k)fluoranthene	252	12.942	12.940	(0.960)	36643	0.50983	41
23 Benzo(a)pyrene	252	13.377	13.369	(0.992)	55751	0.91898	74
25 Indeno(1,2,3-cd)pyrene	276	15.128	15.120	(1.122)	37687	0.67727	54(M)
26 Dibenzo(a,h)anthracene	278	15.158	15.156	(1.124)	13654	0.28050	22
27 Benzo(g,h,i)perylene	276	15.610	15.602	(1.158)	37812	0.60784	49

QC Flag Legend

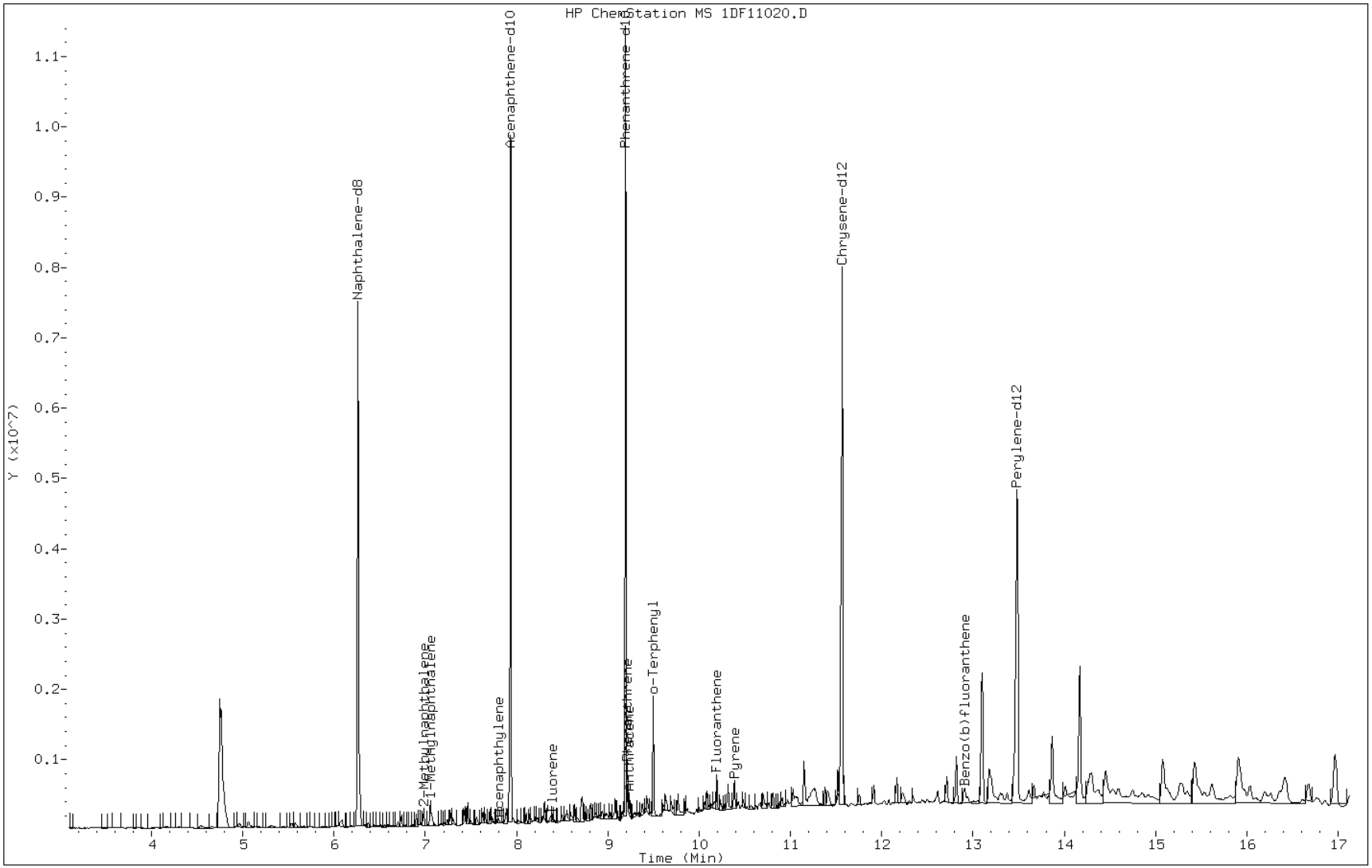
M - Compound response manually integrated.

Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC



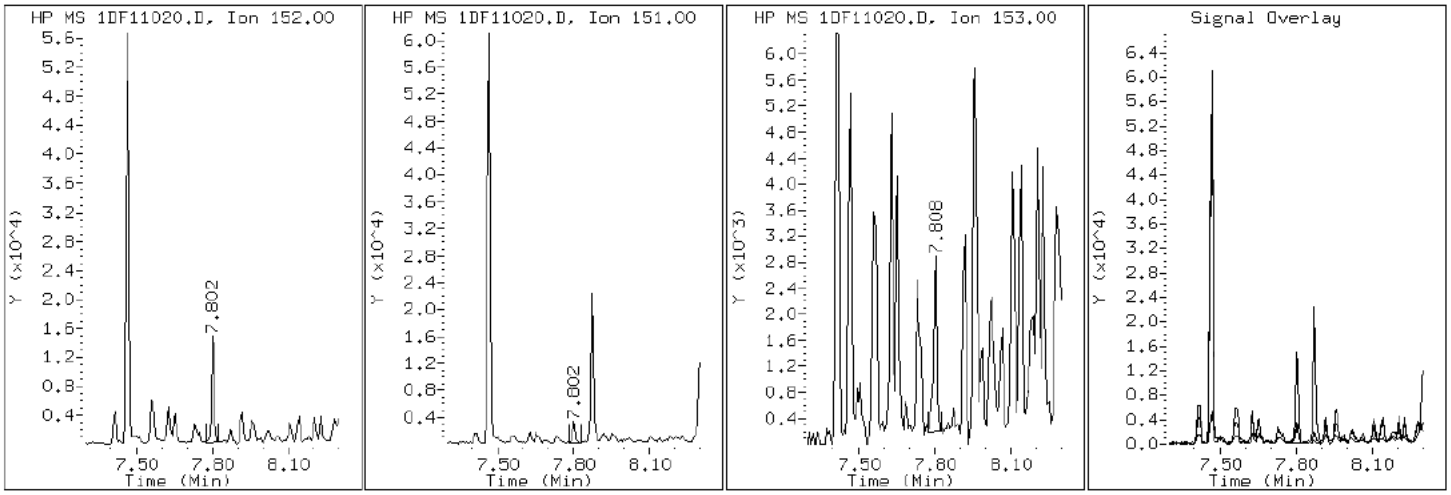
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

6 Acenaphthylene



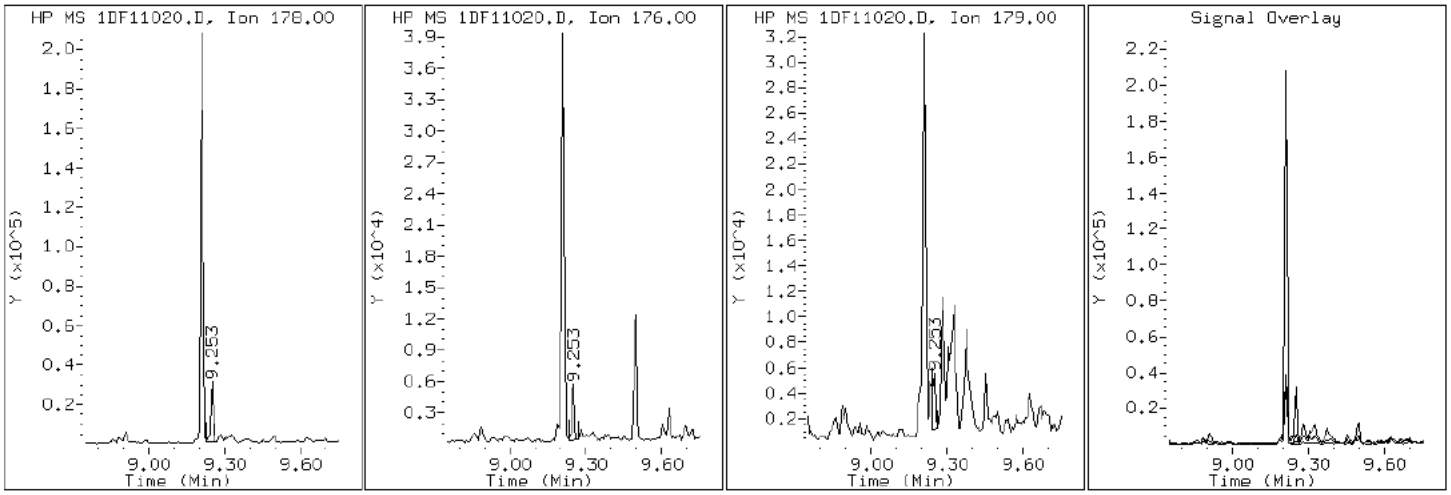
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

13 Anthracene



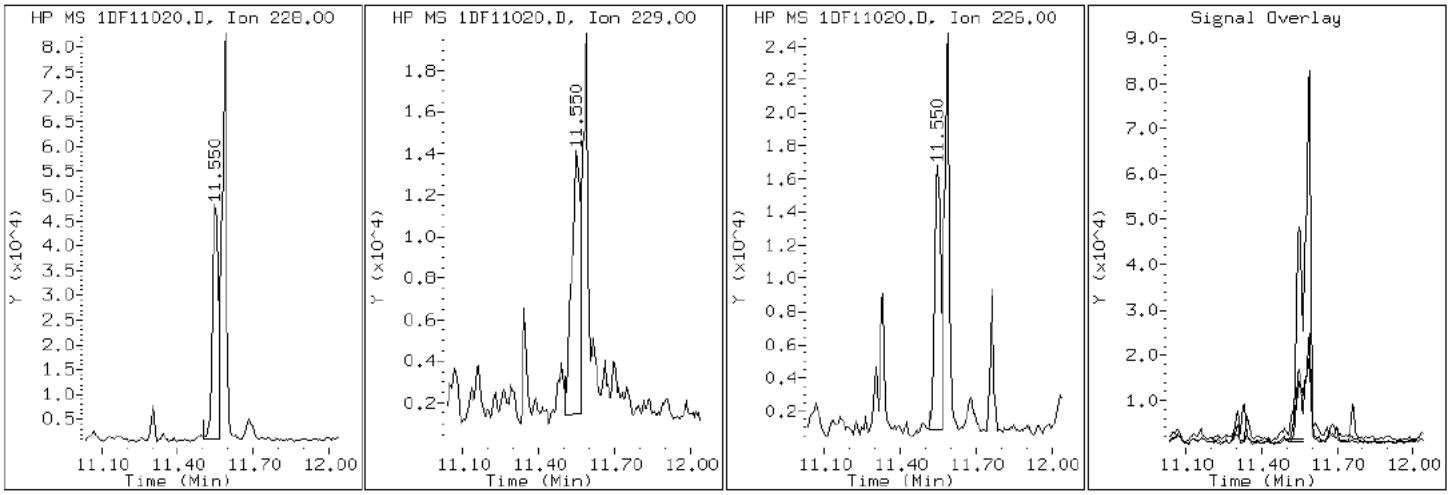
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

18 Benzo(a)anthracene



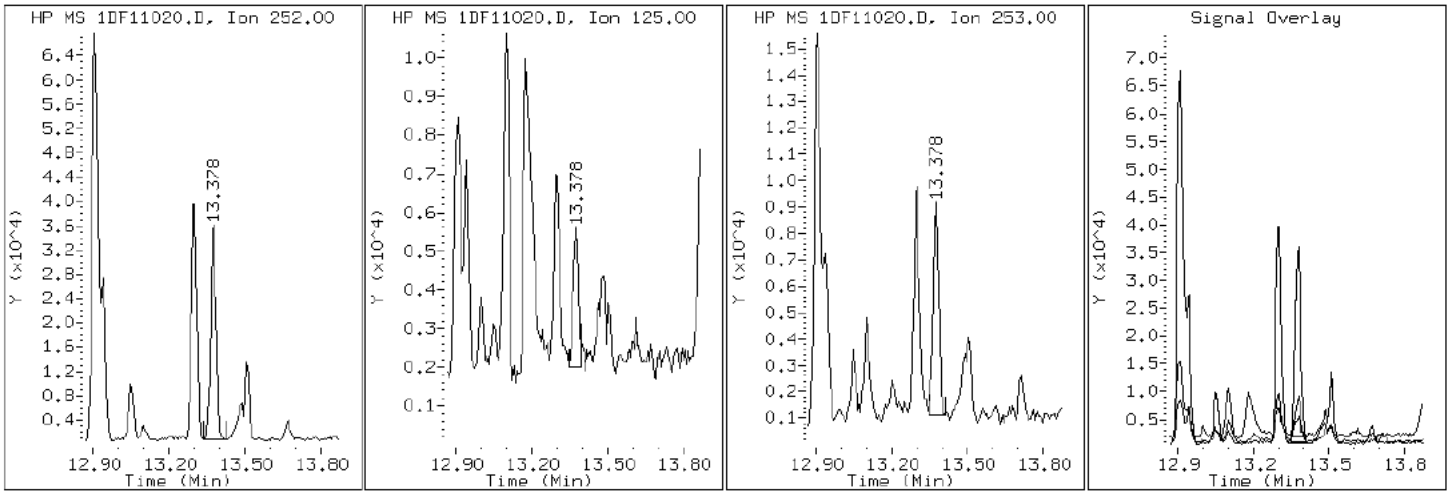
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

23 Benzo(a)pyrene



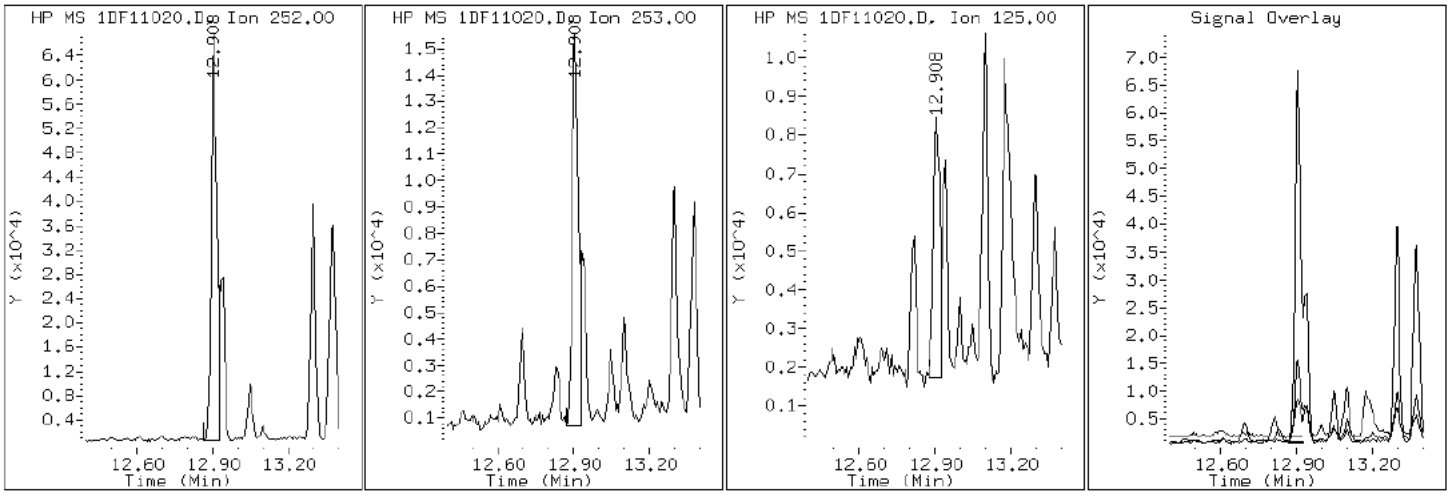
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

21 Benzo(b)fluoranthene



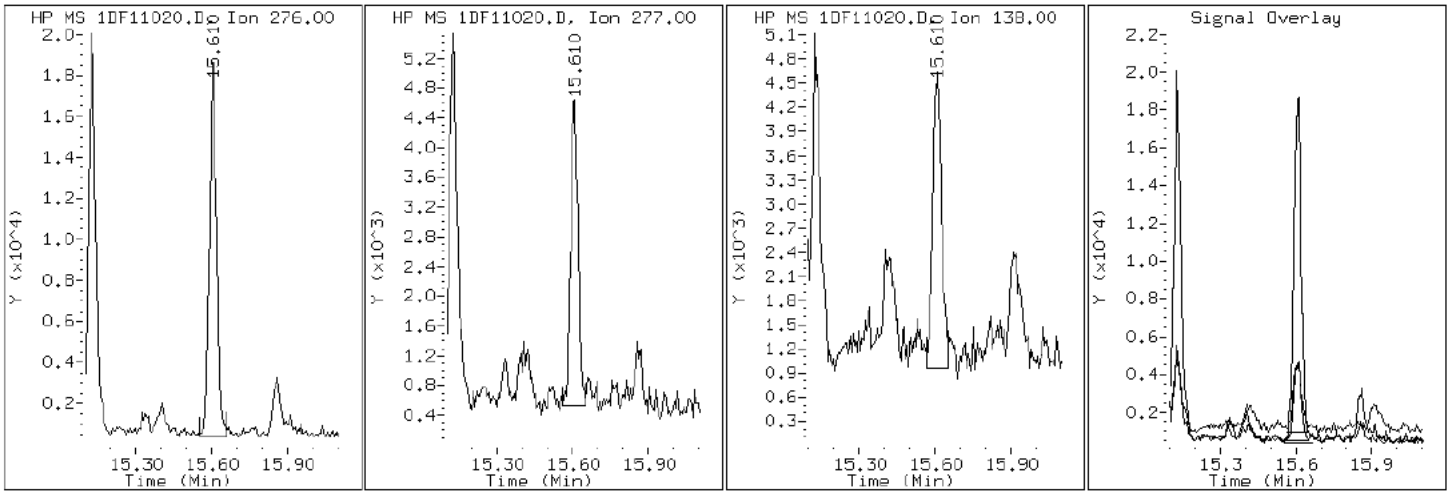
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

27 Benzo(g,h,i)perylene



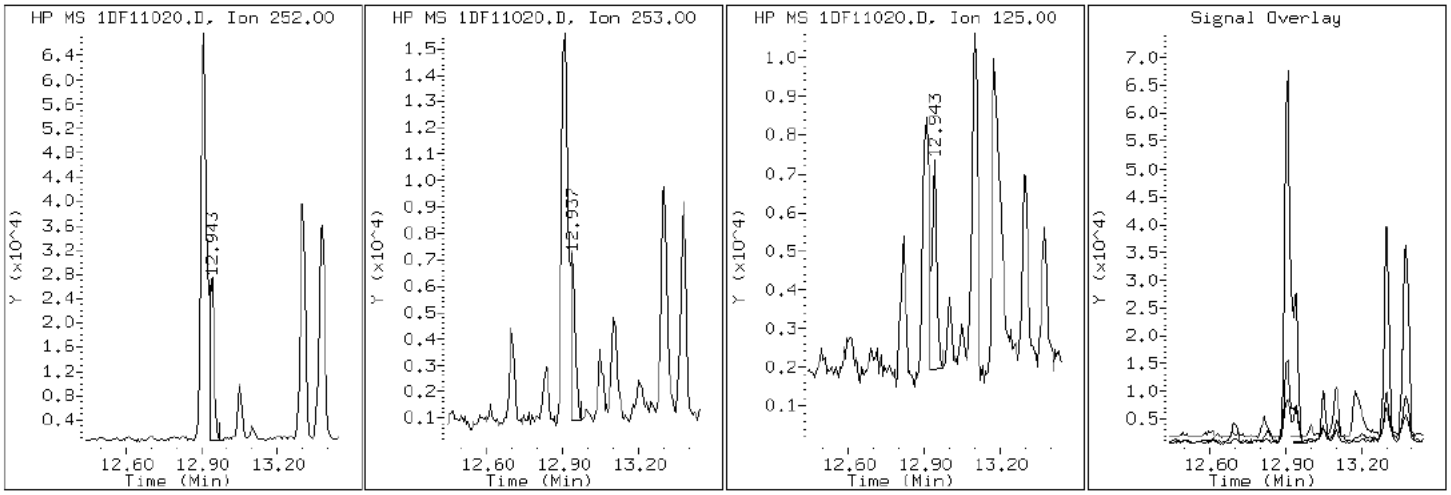
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

22 Benzo(k)fluoranthene



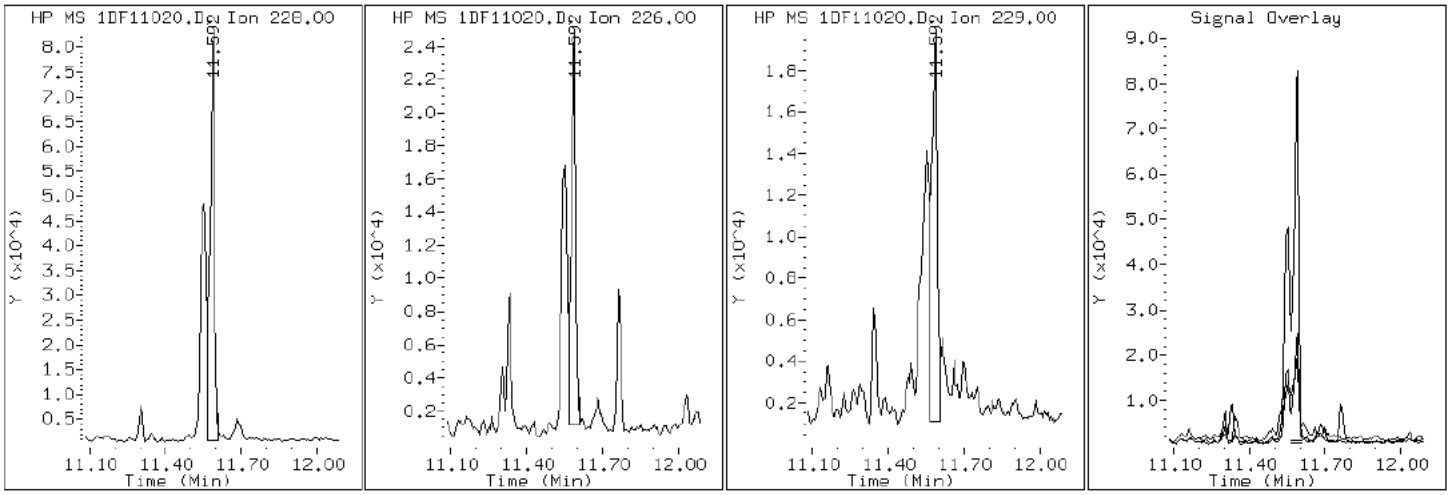
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

20 Chrysene



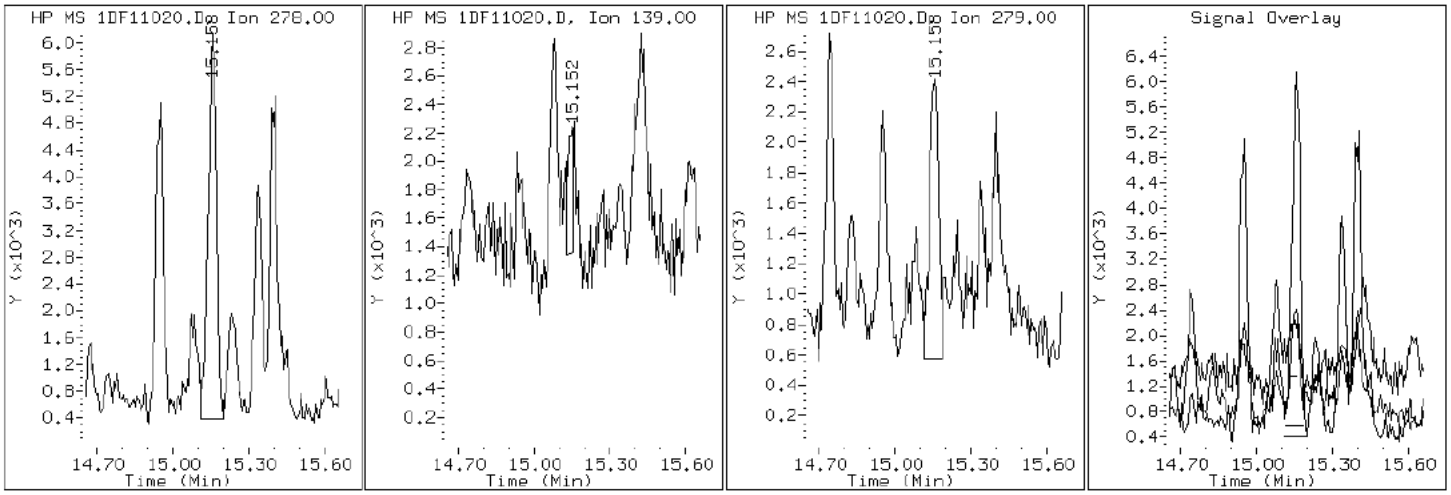
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

26 Dibenzo(a,h)anthracene



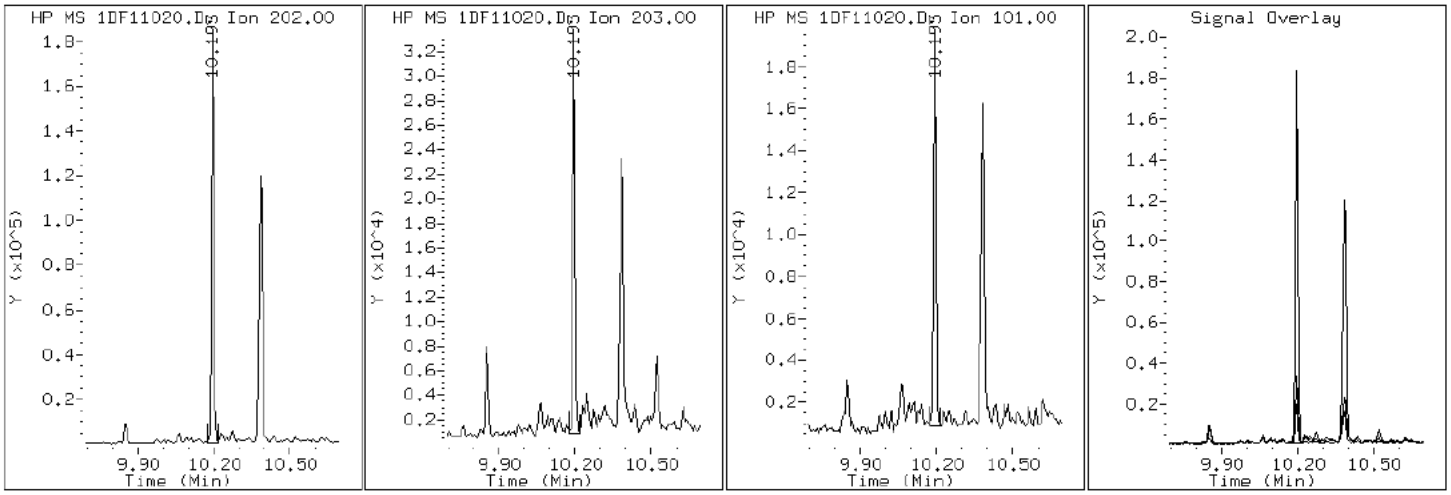
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

16 Fluoranthene



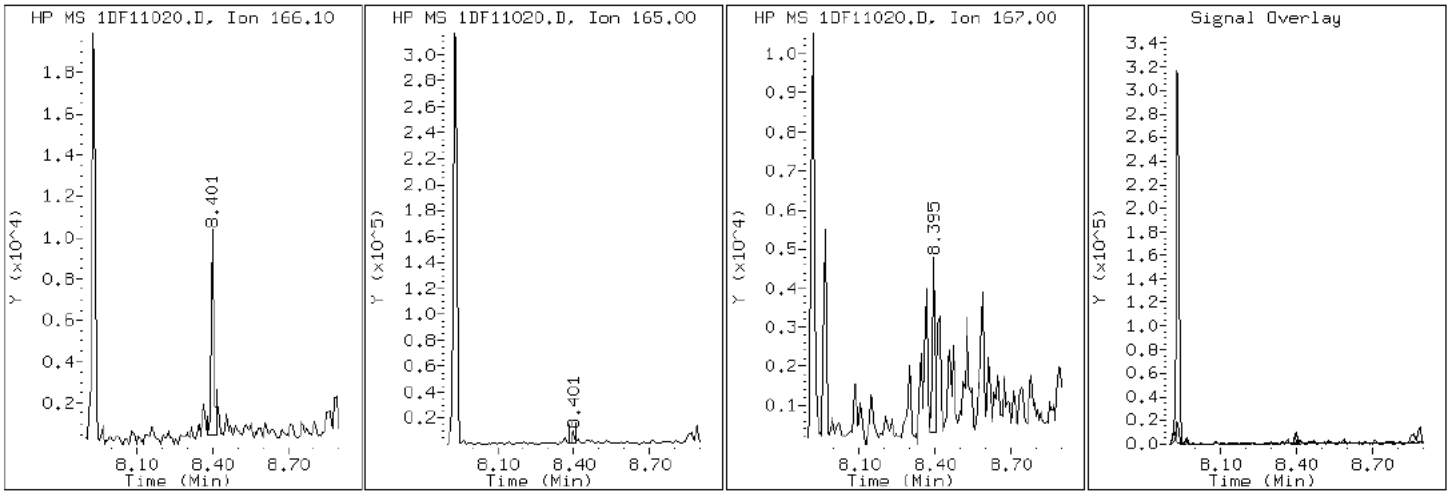
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

10 Fluorene



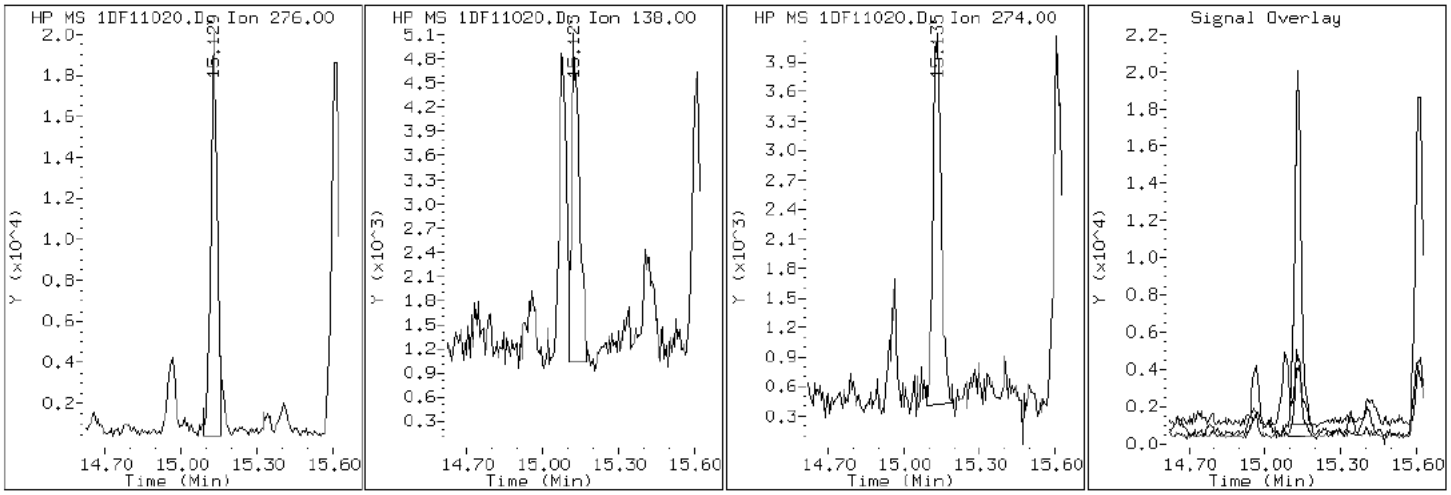
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

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



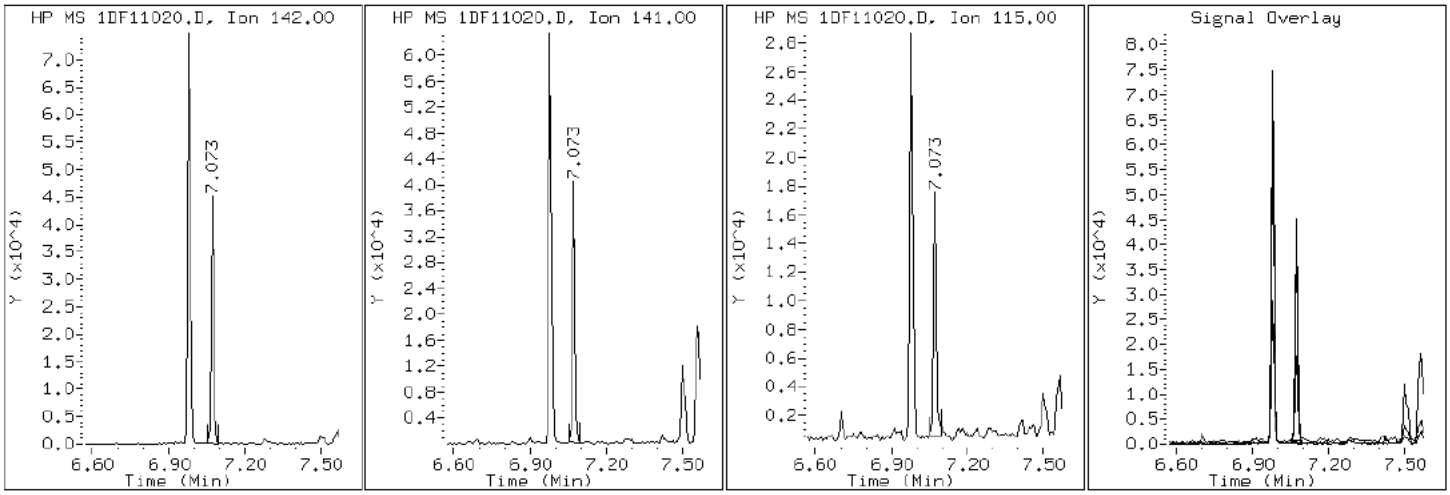
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

4 1-Methylnaphthalene



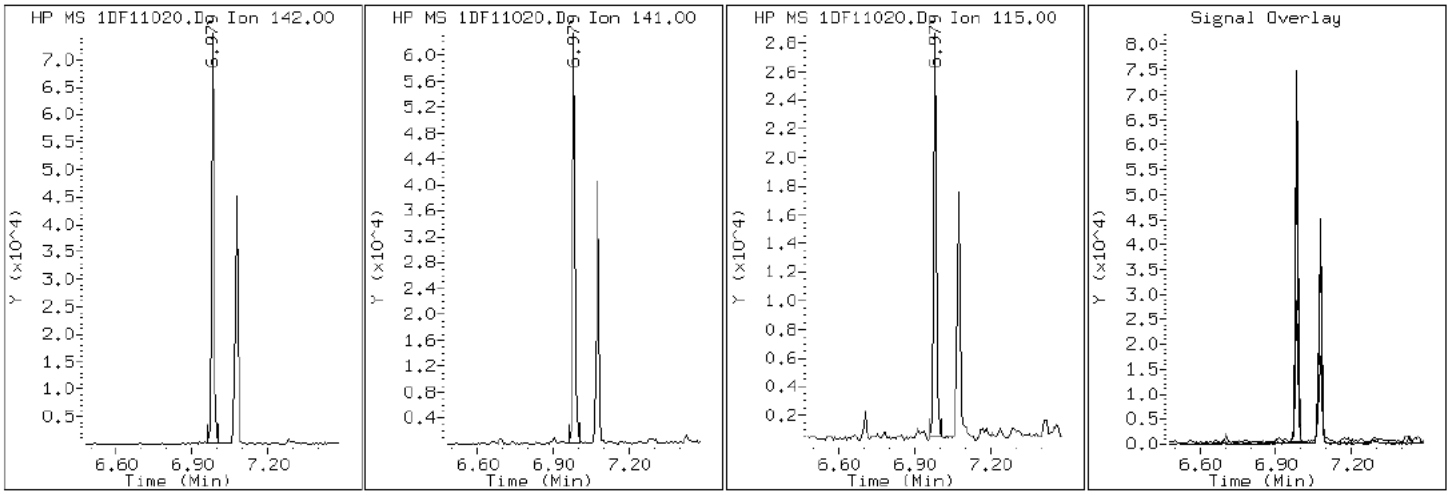
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

3 2-Methylnaphthalene



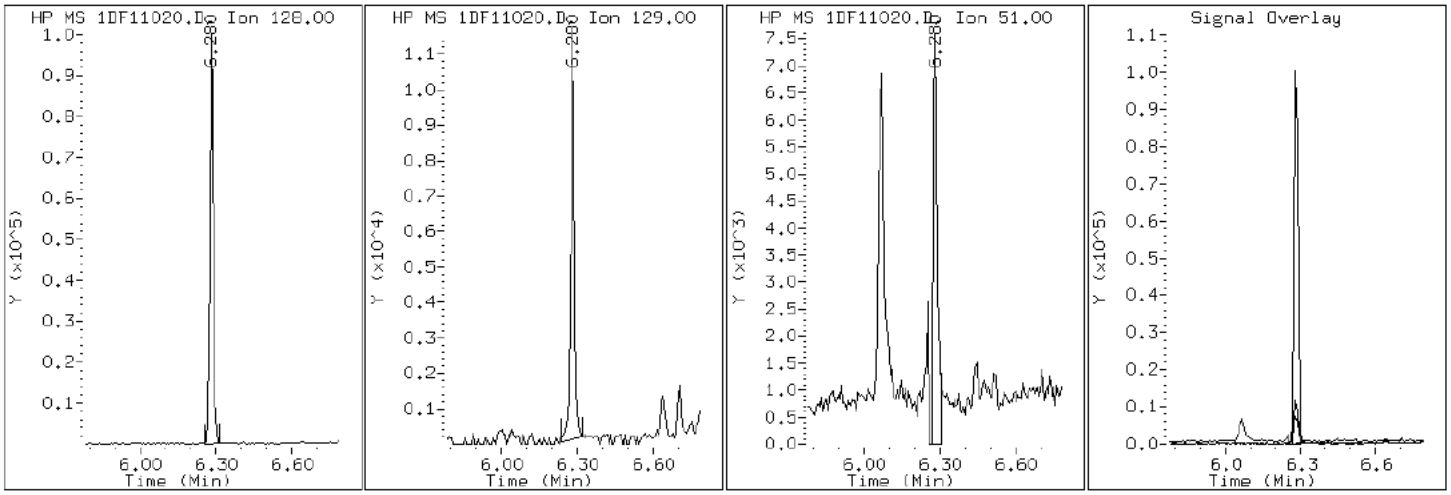
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

2 Naphthalene



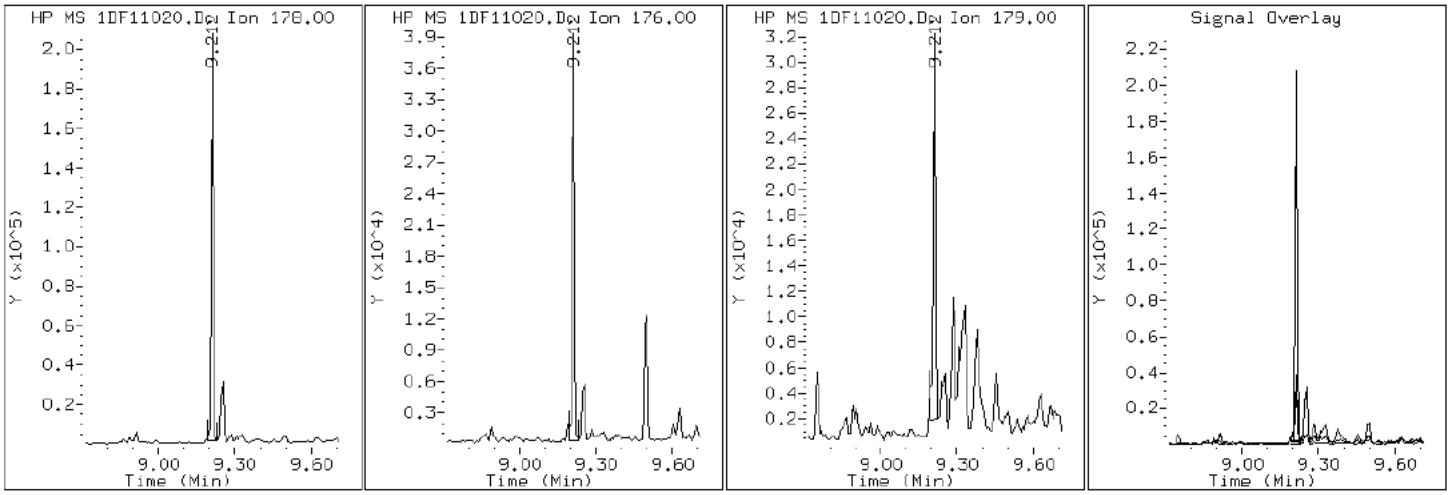
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

12 Phenanthrene



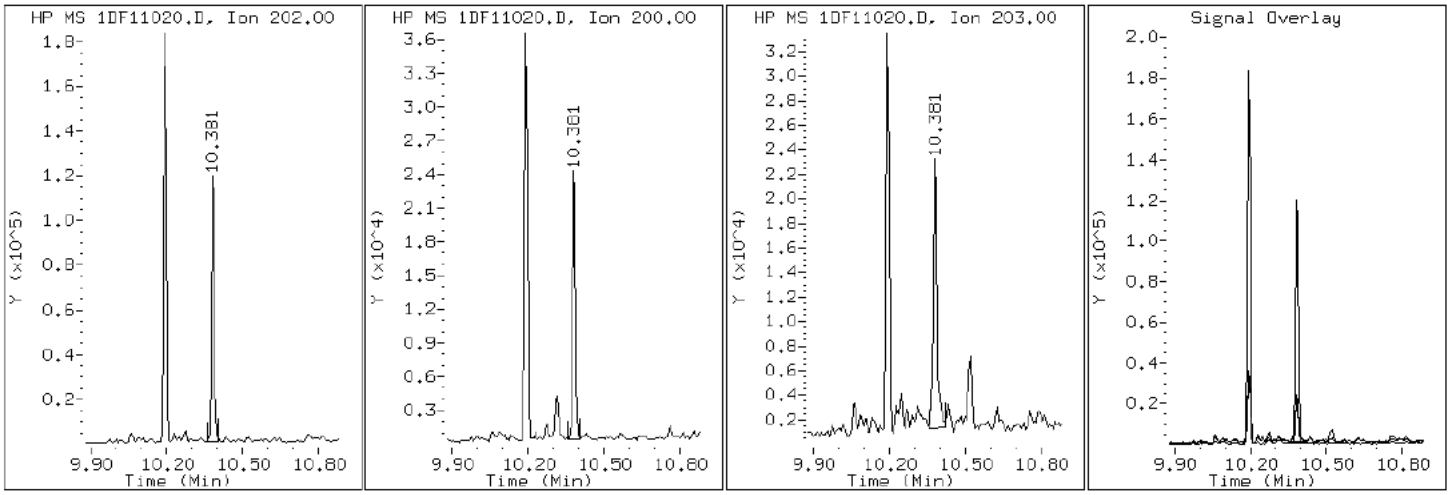
Data File: 1DF11020.D

Date: 11-JUN-2013 18:24

Client ID: FM0097A-CSD Instrument: BSMSD.i

Sample Info: 680-90855-a-17-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11020.D
Inj. Date and Time: 11-JUN-2013 18:24
Instrument ID: BSMSD.i
Client ID: FM0097A-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

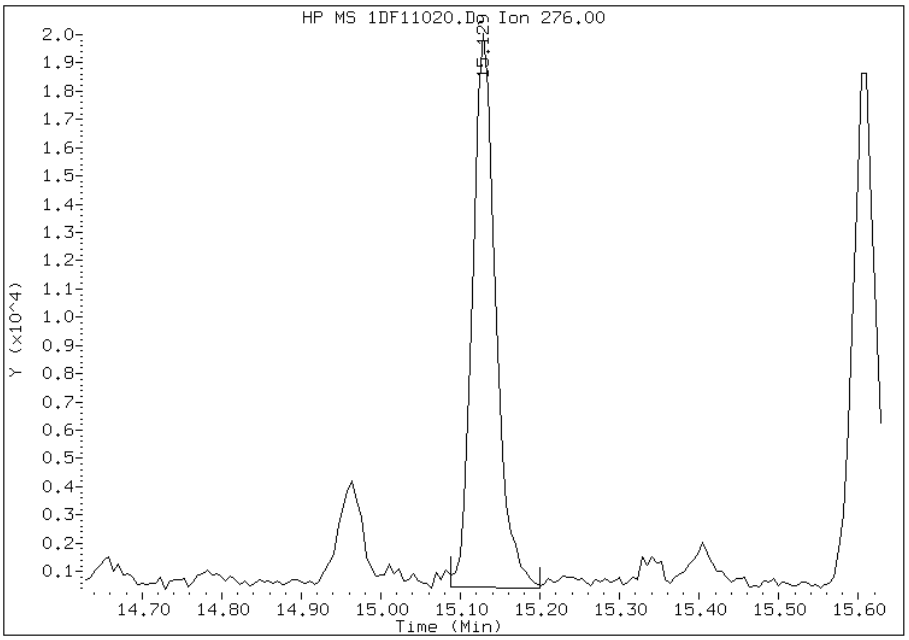
Processing Integration Results

RT: 15.13

Response: 39555

Amount: 1

Conc: 57



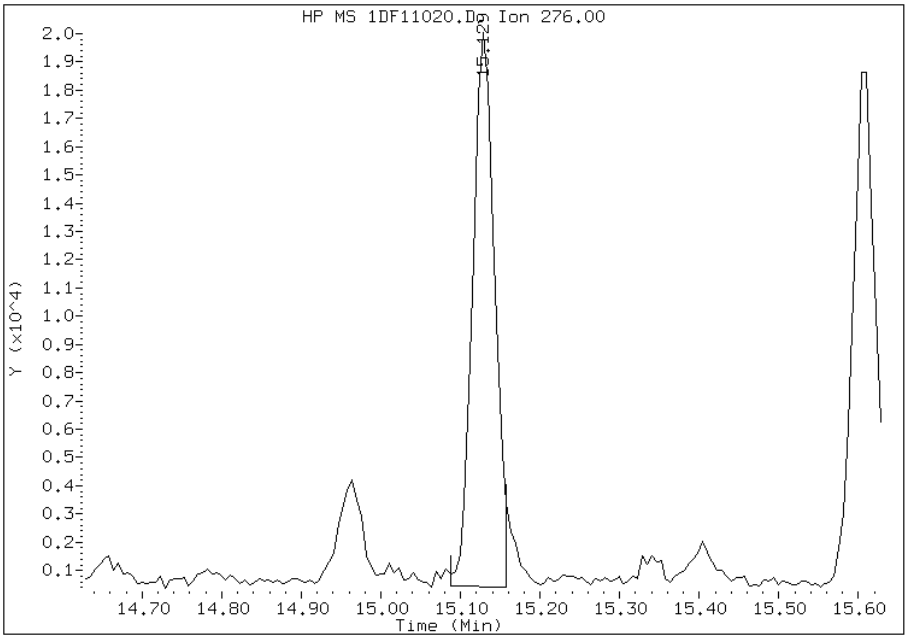
Manual Integration Results

RT: 15.13

Response: 37687

Amount: 1

Conc: 54



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0097B-CS | Lab Sample ID: 680-90855-18

Matrix: Solid | Lab File ID: 1DF11021.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 13:30

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.42(g) | Date Analyzed: 06/11/2013 18:46

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

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

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	9.2	J	47	5.9
120-12-7	Anthracene	24		9.9	4.9
56-55-3	Benzo[a]anthracene	79		9.4	4.6
50-32-8	Benzo[a]pyrene	84		12	6.1
205-99-2	Benzo[b]fluoranthene	150		14	7.2
191-24-2	Benzo[g,h,i]perylene	50		23	5.2
207-08-9	Benzo[k]fluoranthene	39		9.4	4.2
218-01-9	Chrysene	110		11	5.3
53-70-3	Dibenz(a,h)anthracene	23		23	4.8
206-44-0	Fluoranthene	140		23	4.7
86-73-7	Fluorene	12	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	59		23	8.3
90-12-0	1-Methylnaphthalene	35	J	47	5.2
91-57-6	2-Methylnaphthalene	53		47	8.3
91-20-3	Naphthalene	62		47	5.2
85-01-8	Phenanthrene	130		9.4	4.6
129-00-0	Pyrene	110		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11021.D
Lab Smp Id: 680-90855-A-18-A Client Smp ID: FM0097B-CS
Inj Date : 11-JUN-2013 18:46
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-18-a
Misc Info : 680-90855-A-18-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 21
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	15.420	Weight Extracted
M	17.161	% 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	6.266	6.260	(1.000)	3568426	40.0000	
*	7 Acenaphthene-d10	164	7.935	7.929	(1.000)	2110221	40.0000	
*	11 Phenanthrene-d10	188	9.198	9.192	(1.000)	3385293	40.0000	
$	15 o-Terphenyl	230	9.497	9.497	(1.033)	255322	5.14809	400
*	19 Chrysene-d12	240	11.566	11.560	(1.000)	3021505	40.0000	
*	24 Perylene-d12	264	13.487	13.469	(1.000)	2598955	40.0000	
	2 Naphthalene	128	6.284	6.284	(1.003)	69448	0.78919	62
	3 2-Methylnaphthalene	142	6.983	6.977	(1.114)	37823	0.67504	53
	4 1-Methylnaphthalene	142	7.077	7.071	(1.129)	26047	0.45155	35
	6 Acenaphthylene	152	7.805	7.799	(0.984)	10286	0.11756	9.2
	10 Fluorene	166	8.399	8.399	(1.058)	9899	0.15763	12
	12 Phenanthrene	178	9.210	9.210	(1.001)	153370	1.67280	130
	13 Anthracene	178	9.251	9.251	(1.006)	27281	0.30667	24
	16 Fluoranthene	202	10.197	10.191	(1.109)	172975	1.84414	140

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.385	10.379	(0.898)	127904	1.44586	110
18 Benzo(a)anthracene	228	11.554	11.536	(0.999)	90752	1.01205	79
20 Chrysene	228	11.589	11.583	(1.002)	112624	1.39476	110
21 Benzo(b)fluoranthene	252	12.905	12.899	(0.957)	123371	1.89482	150
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.959)	33662	0.49370	39
23 Benzo(a)pyrene	252	13.375	13.369	(0.992)	62882	1.07402	84
25 Indeno(1,2,3-cd)pyrene	276	15.132	15.120	(1.122)	40814	0.75220	59(M)
26 Dibenzo(a,h)anthracene	278	15.155	15.156	(1.124)	13427	0.28813	22
27 Benzo(g,h,i)perylene	276	15.608	15.602	(1.157)	37526	0.63589	50

QC Flag Legend

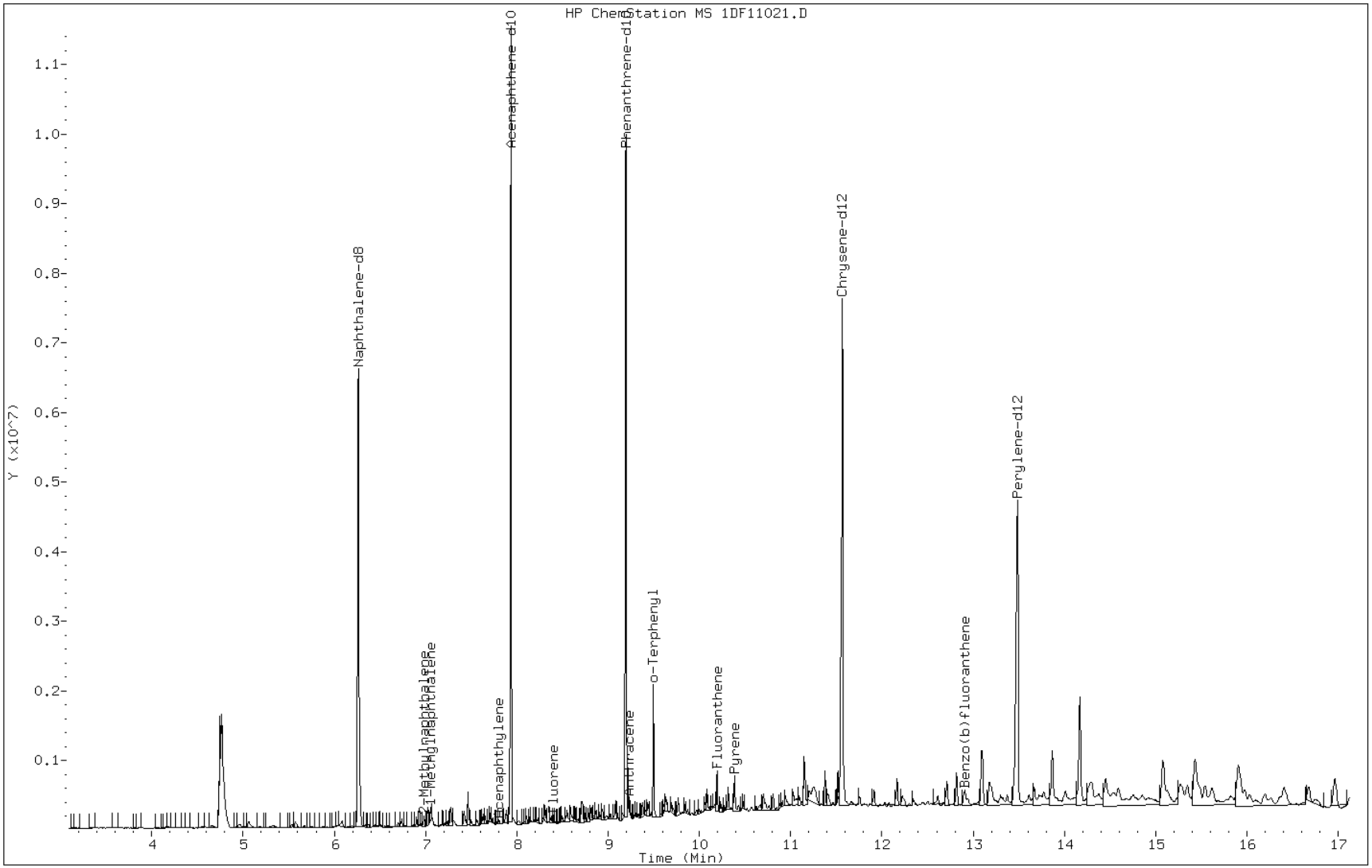
M - Compound response manually integrated.

Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC



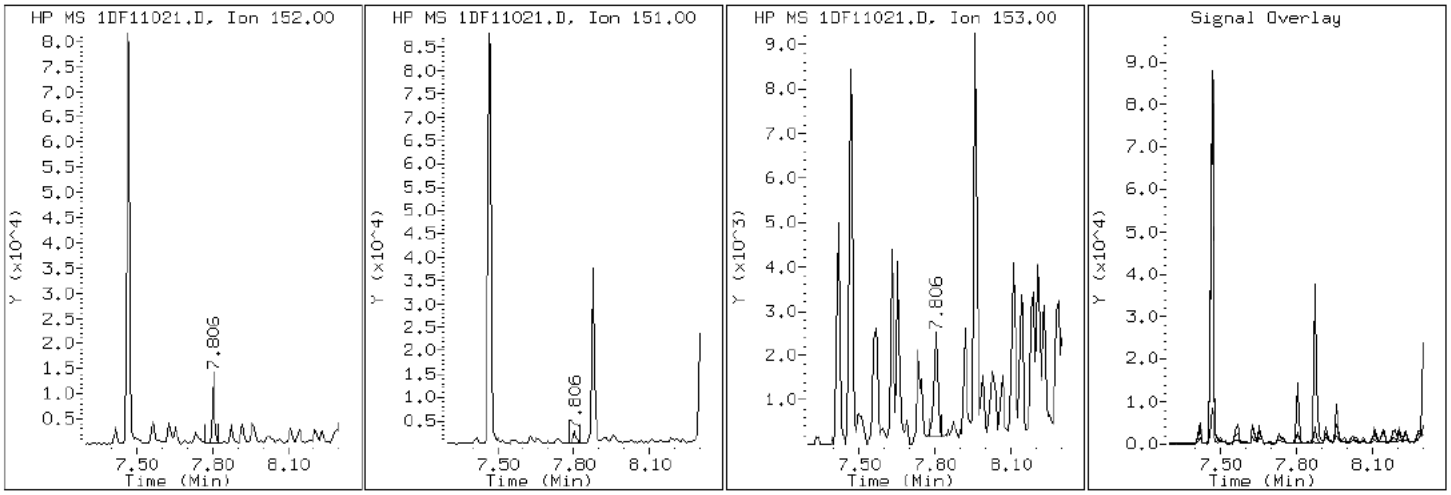
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

6 Acenaphthylene



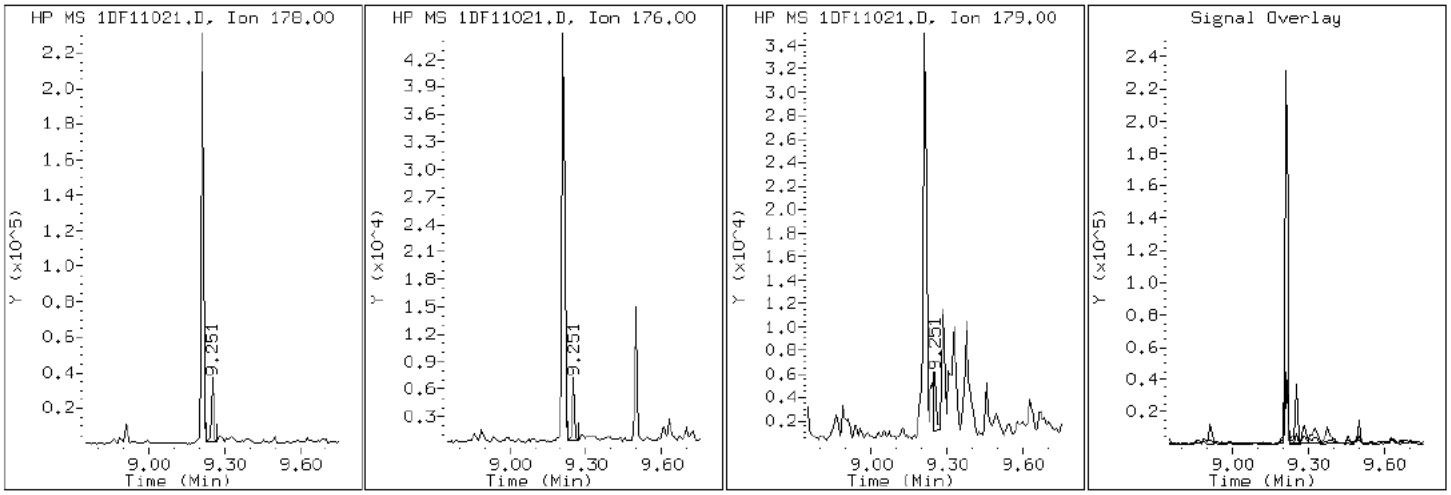
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

13 Anthracene



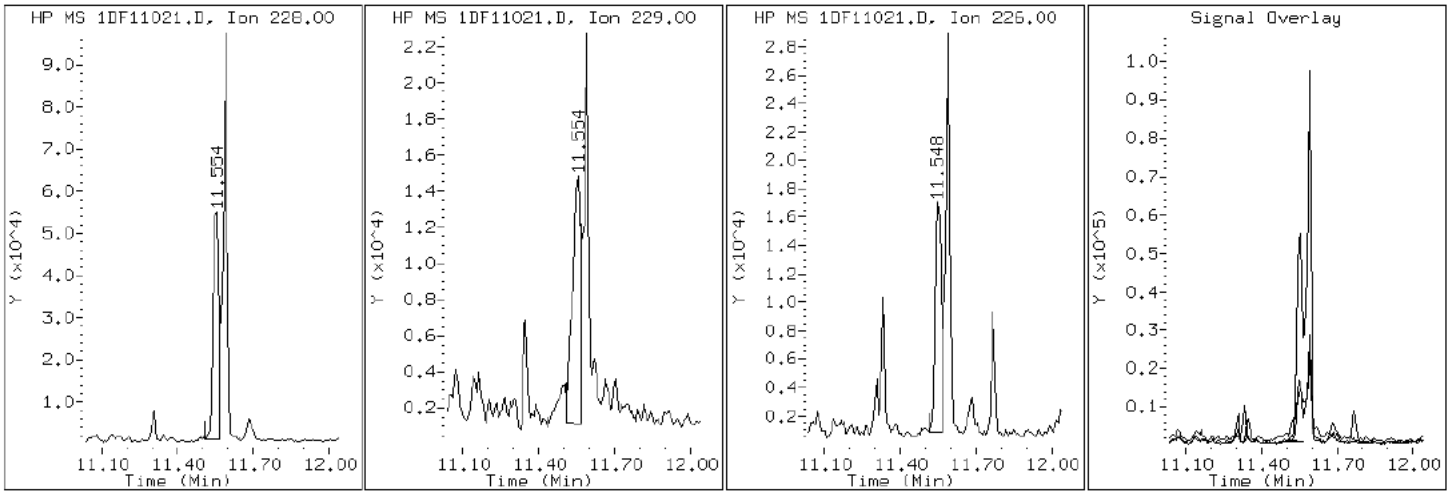
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

18 Benzo(a)anthracene



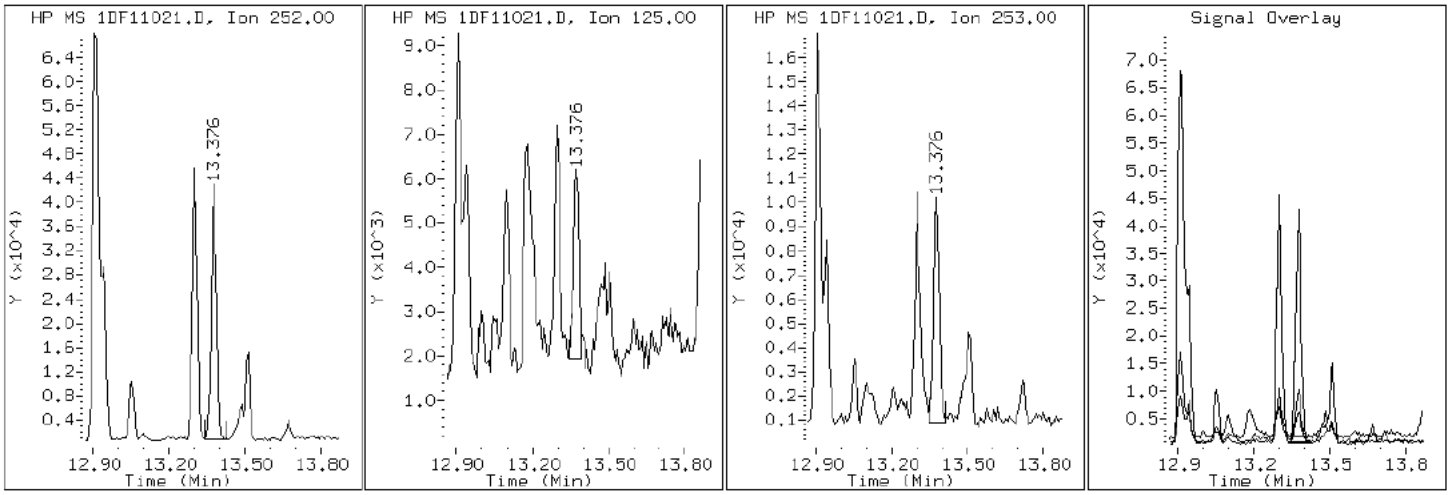
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

23 Benzo(a)pyrene



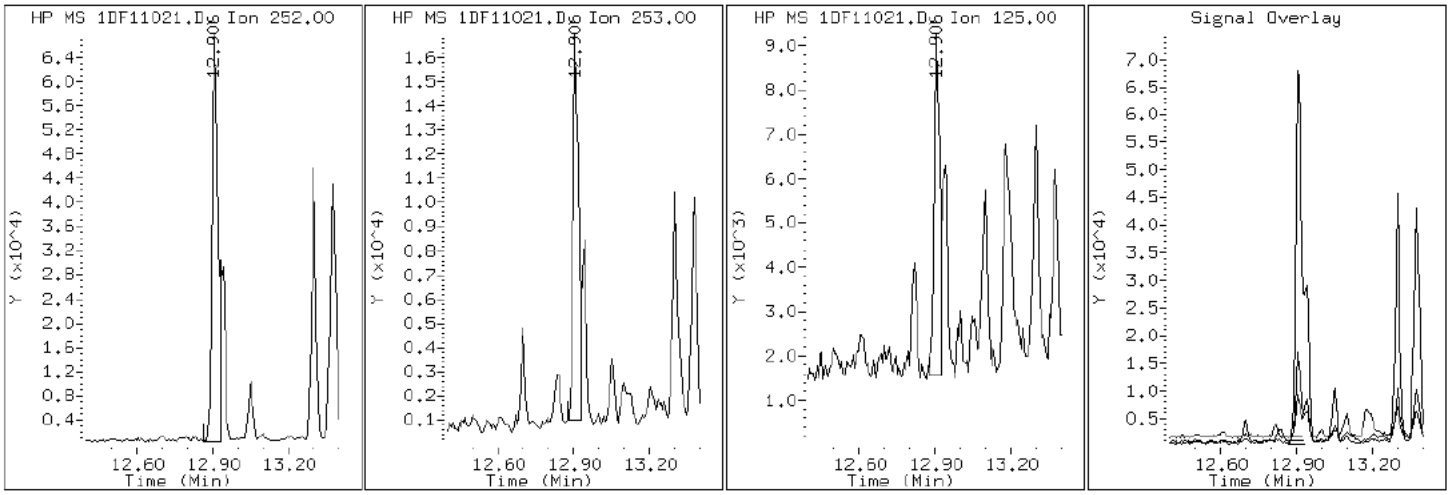
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

21 Benzo(b)fluoranthene



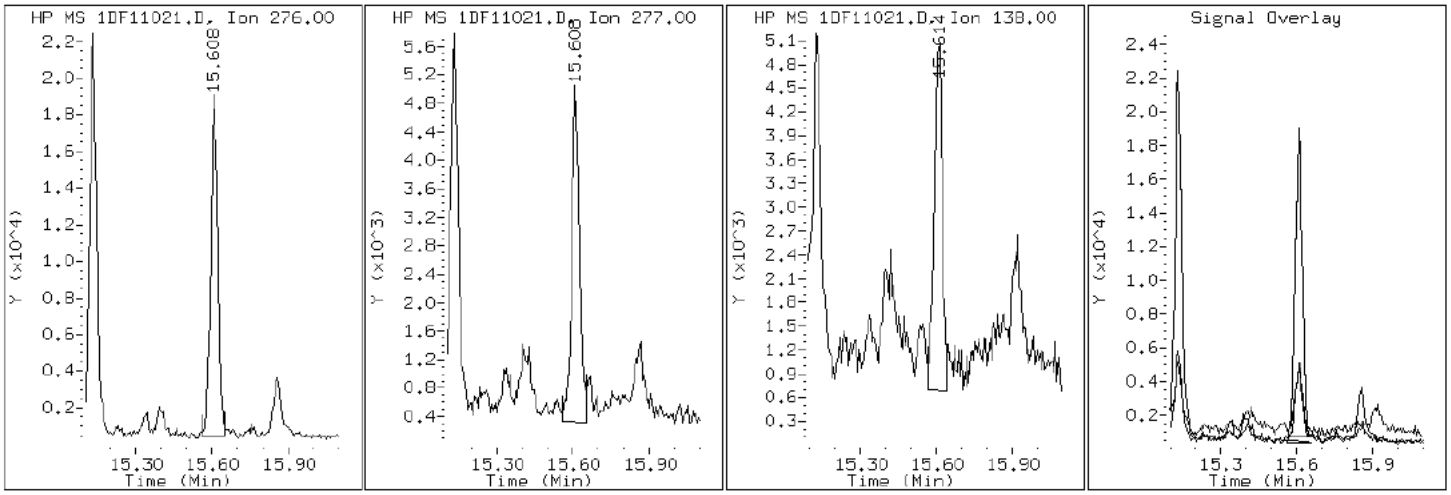
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

27 Benzo(g,h,i)perylene



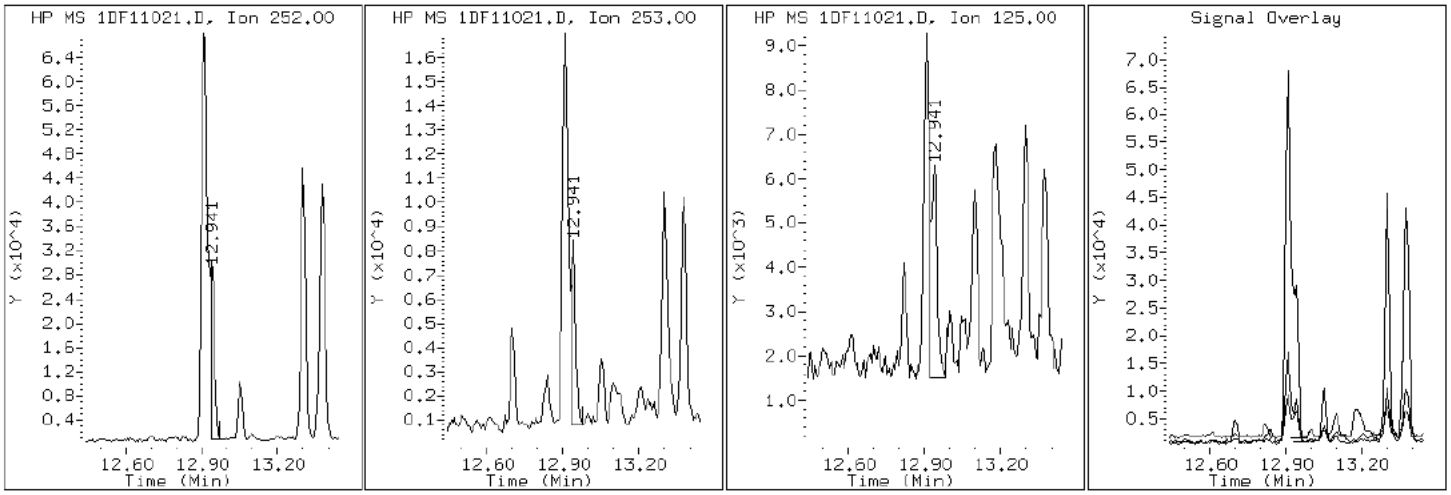
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

22 Benzo(k)fluoranthene



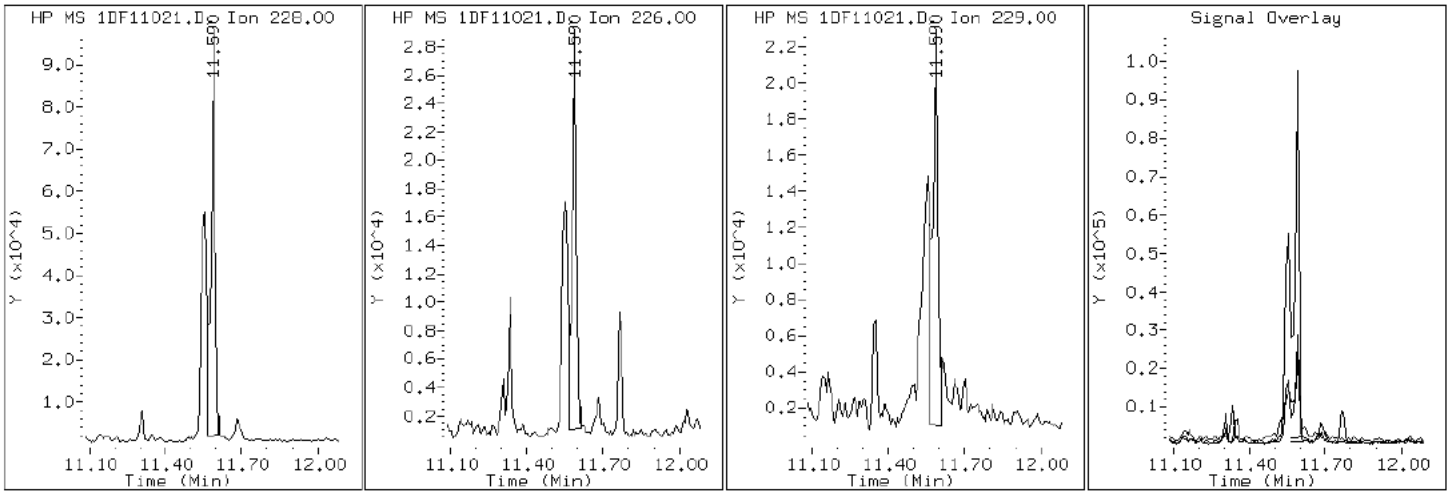
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

20 Chrysene



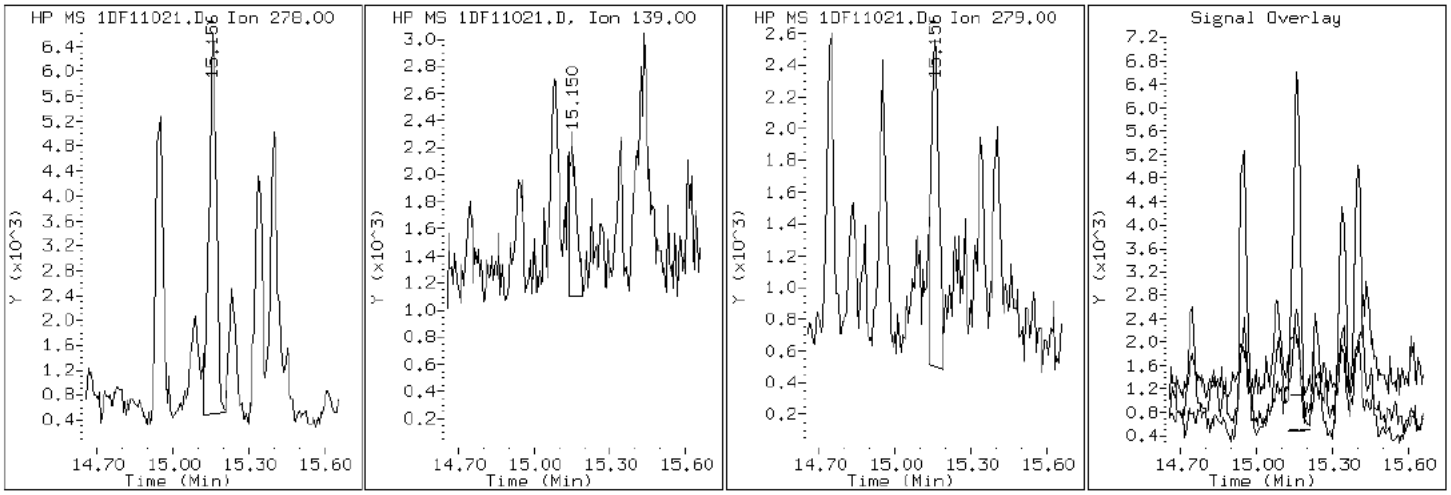
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

26 Dibenzo(a,h)anthracene



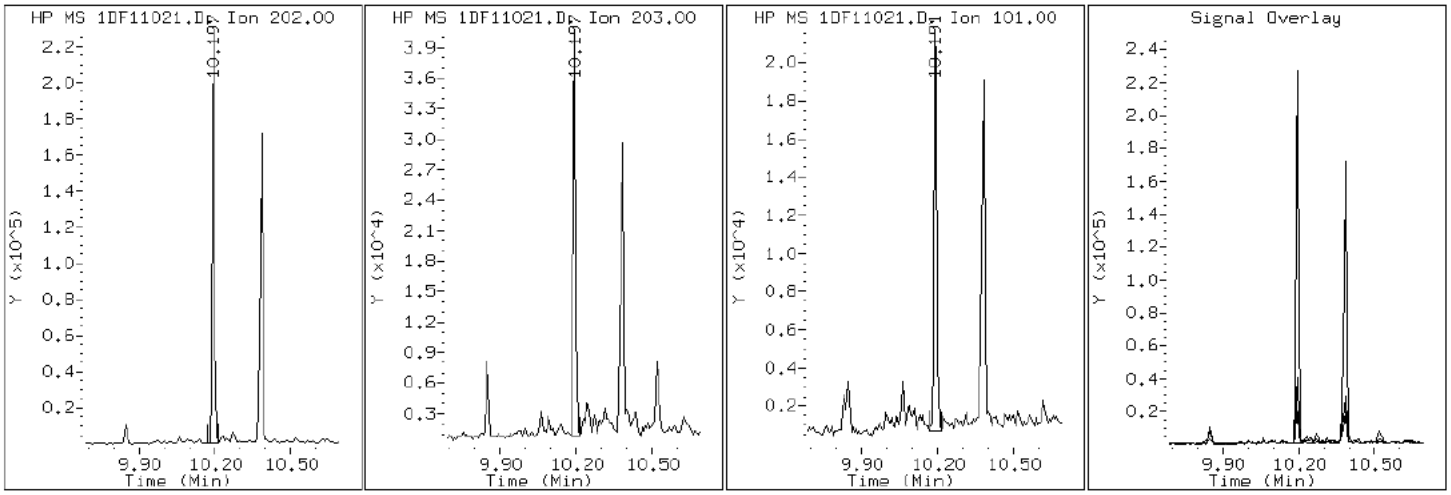
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

16 Fluoranthene



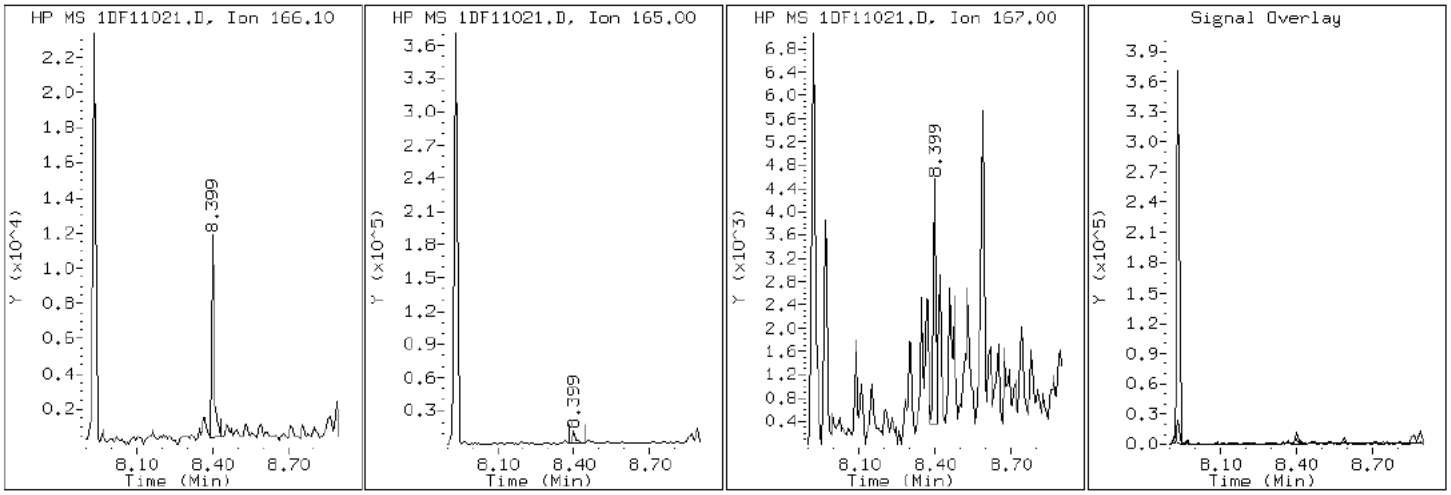
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

10 Fluorene



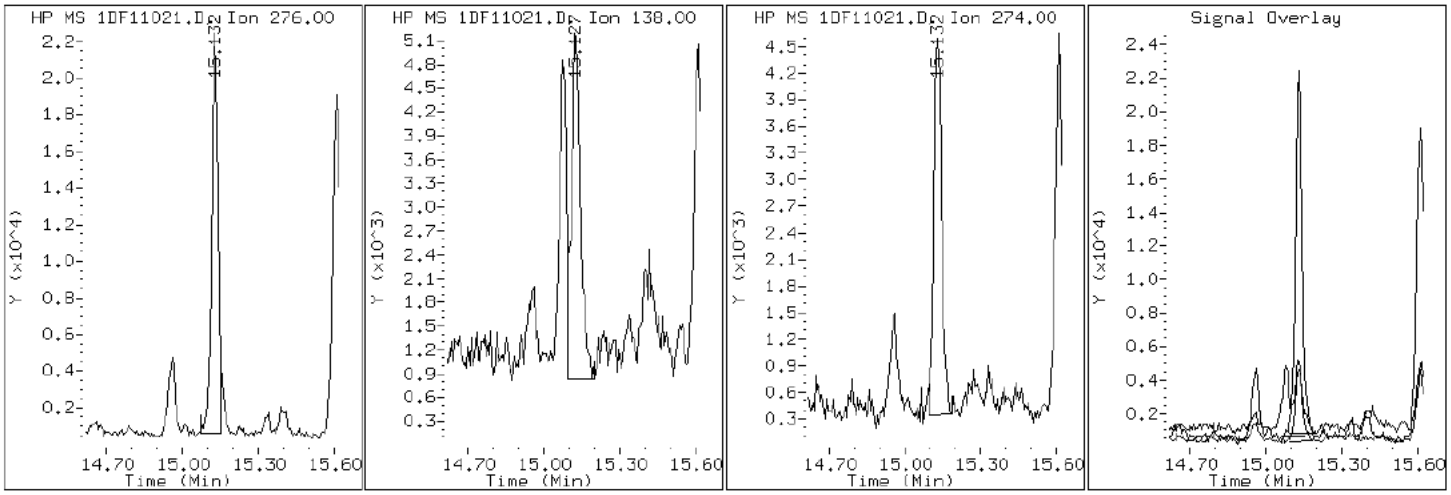
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

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



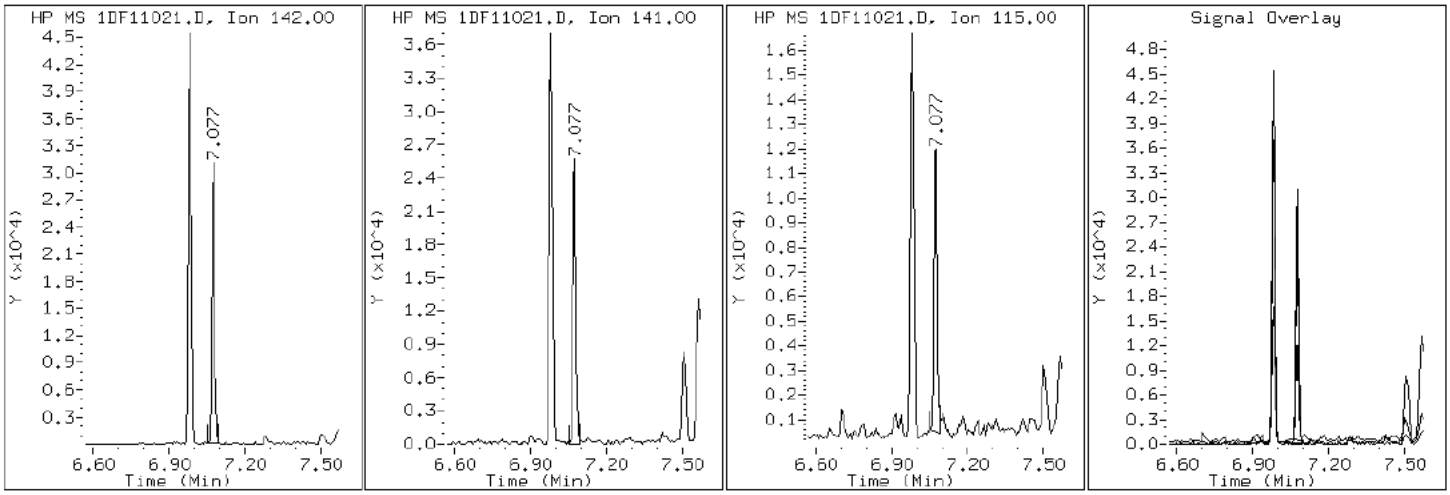
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

4 1-Methylnaphthalene



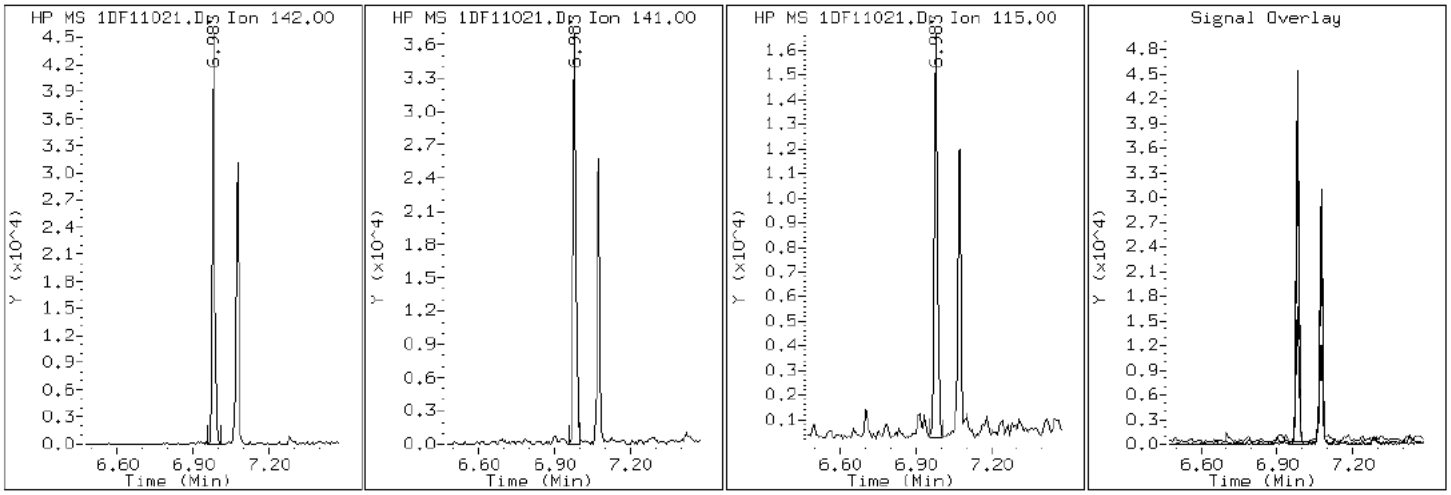
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

3 2-Methylnaphthalene



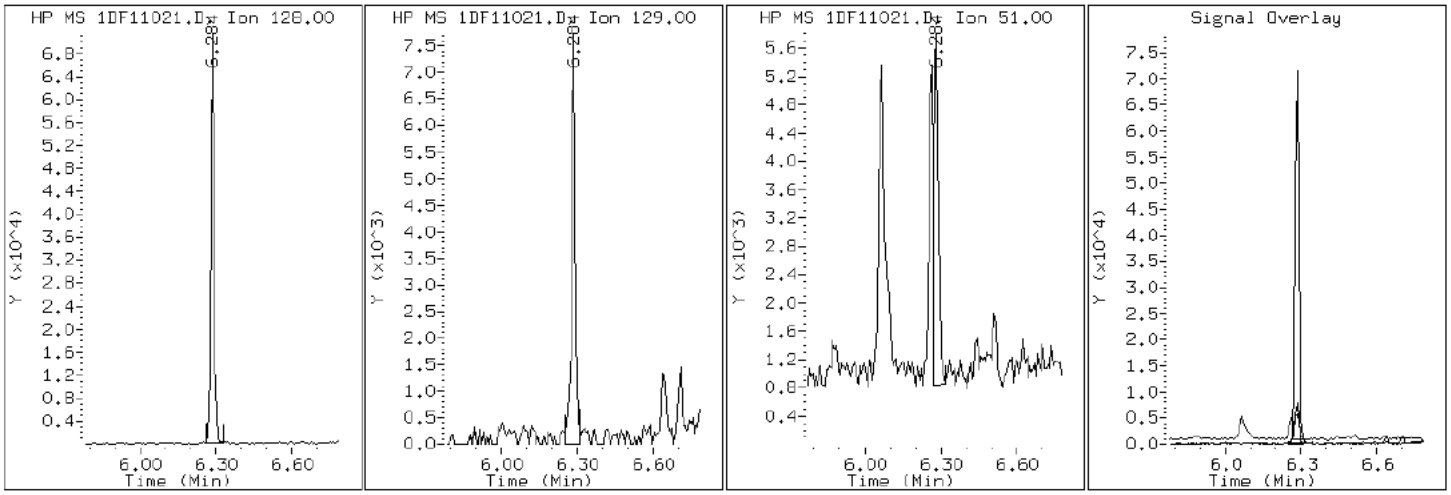
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

2 Naphthalene



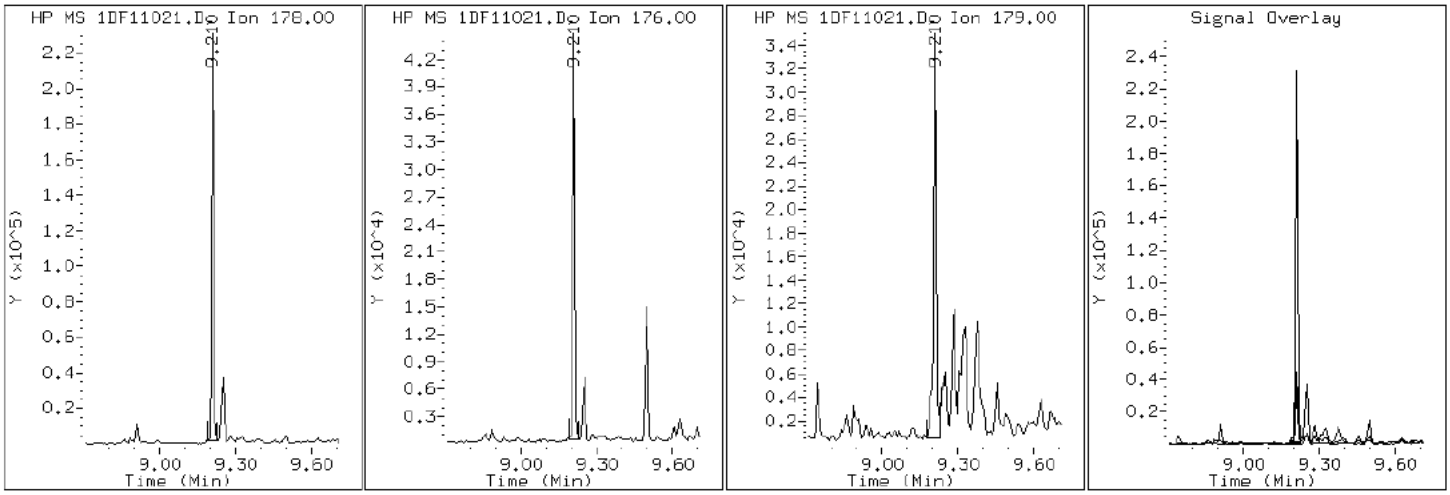
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

12 Phenanthrene



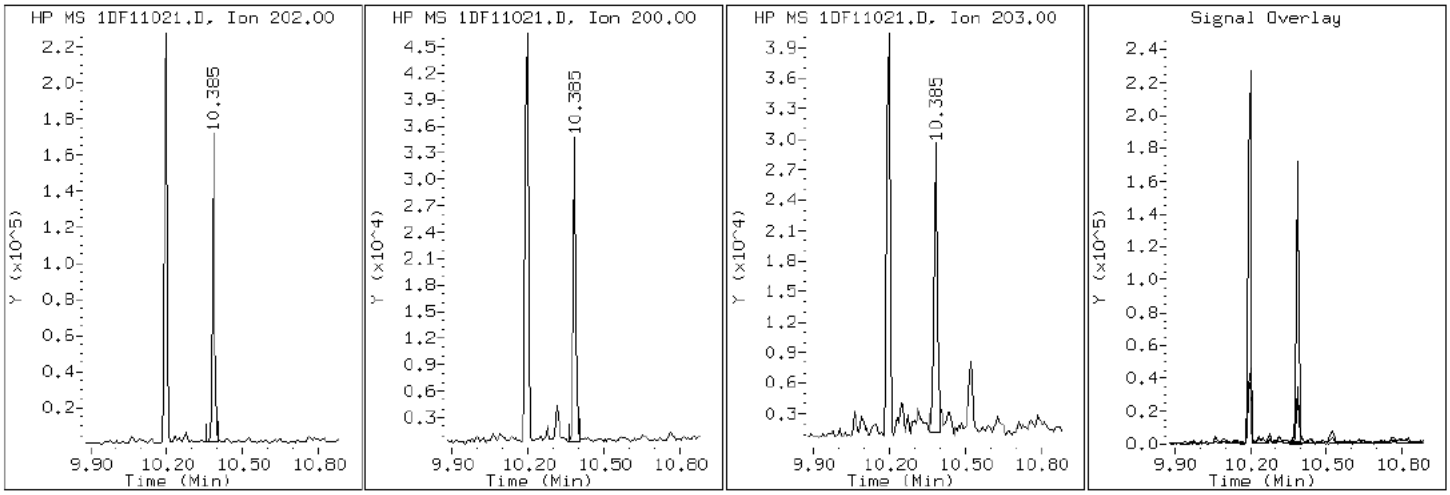
Data File: 1DF11021.D

Date: 11-JUN-2013 18:46

Client ID: FM0097B-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-18-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11021.D
Inj. Date and Time: 11-JUN-2013 18:46
Instrument ID: BSMSD.i
Client ID: FM0097B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

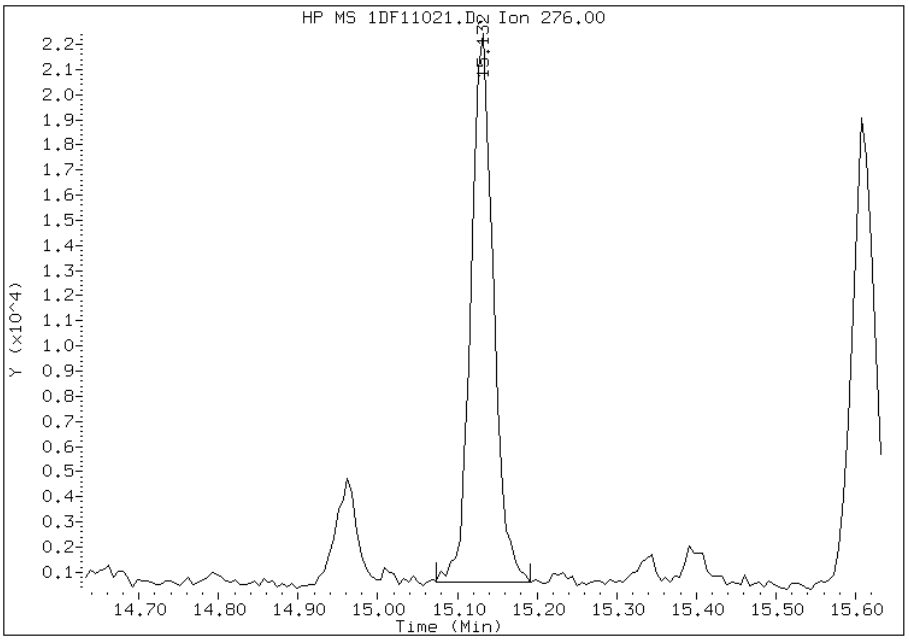
Processing Integration Results

RT: 15.13

Response: 42628

Amount: 1

Conc: 61



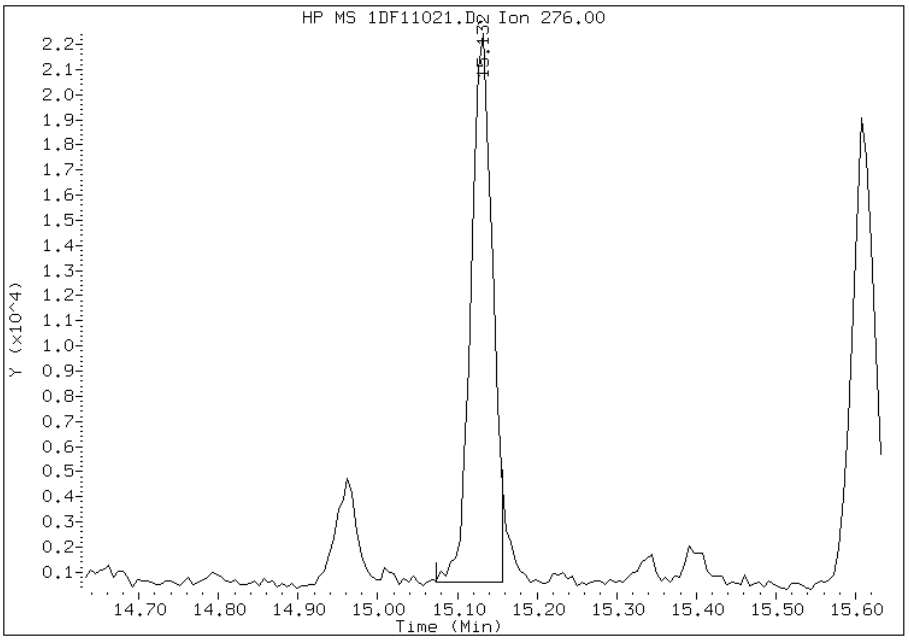
Manual Integration Results

RT: 15.13

Response: 40814

Amount: 1

Conc: 59



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0097C-CS | Lab Sample ID: 680-90855-19

Matrix: Solid | Lab File ID: 1DF11022.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 13:50

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.00(g) | Date Analyzed: 06/11/2013 19:09

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

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

% Moisture: 10.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	45	U	45	5.6
120-12-7	Anthracene	10		9.4	4.7
56-55-3	Benzo[a]anthracene	36		8.9	4.4
50-32-8	Benzo[a]pyrene	41		12	5.8
205-99-2	Benzo[b]fluoranthene	65		14	6.8
191-24-2	Benzo[g,h,i]perylene	25		22	4.9
207-08-9	Benzo[k]fluoranthene	21		8.9	4.0
218-01-9	Chrysene	52		10	5.0
53-70-3	Dibenz(a,h)anthracene	13	J	22	4.6
206-44-0	Fluoranthene	50		22	4.5
86-73-7	Fluorene	5.3	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	32		22	7.9
90-12-0	1-Methylnaphthalene	24	J	45	4.9
91-57-6	2-Methylnaphthalene	36	J	45	7.9
91-20-3	Naphthalene	39	J	45	4.9
85-01-8	Phenanthrene	55		8.9	4.4
129-00-0	Pyrene	42		22	4.1

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\1D061113.b\1DF11022.D
Lab Smp Id: 680-90855-A-19-A Client Smp ID: FM0097C-CS
Inj Date : 11-JUN-2013 19:09
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-19-a
Misc Info : 680-90855-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 22
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	15.000	Weight Extracted
M	10.605	% 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	6.261	6.260	(1.000)	3598230	40.0000	
*	7 Acenaphthene-d10	164	7.935	7.929	(1.000)	2141797	40.0000	
*	11 Phenanthrene-d10	188	9.199	9.192	(1.000)	3443851	40.0000	
$	15 o-Terphenyl	230	9.498	9.497	(1.033)	299992	5.94593	440
*	19 Chrysene-d12	240	11.566	11.560	(1.000)	3040744	40.0000	
*	24 Perylene-d12	264	13.488	13.469	(1.000)	2627395	40.0000	
	2 Naphthalene	128	6.284	6.284	(1.004)	45814	0.51631	38
	3 2-Methylnaphthalene	142	6.983	6.977	(1.115)	27094	0.47955	36
	4 1-Methylnaphthalene	142	7.072	7.071	(1.129)	19075	0.32795	24
	6 Acenaphthylene	152	7.806	7.799	(0.984)	6247	0.07035	5.2
	10 Fluorene	166	8.399	8.399	(1.058)	4570	0.07170	5.3
	12 Phenanthrene	178	9.210	9.210	(1.001)	69216	0.74210	55
	13 Anthracene	178	9.251	9.251	(1.006)	12391	0.13692	10
	16 Fluoranthene	202	10.191	10.191	(1.108)	64065	0.67140	50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.385	10.379	(0.898)	49602	0.55716	42
18 Benzo(a)anthracene	228	11.555	11.536	(0.999)	43542	0.48250	36
20 Chrysene	228	11.590	11.583	(1.002)	57079	0.70241	52
21 Benzo(b)fluoranthene	252	12.906	12.899	(0.957)	57369	0.87158	65
22 Benzo(k)fluoranthene	252	12.941	12.940	(0.959)	19638	0.28490	21
23 Benzo(a)pyrene	252	13.370	13.369	(0.991)	29348	0.54885	41
25 Indeno(1,2,3-cd)pyrene	276	15.121	15.120	(1.121)	19097	0.42767	32(M)
26 Dibenzo(a,h)anthracene	278	15.150	15.156	(1.123)	6654	0.17793	13
27 Benzo(g,h,i)perylene	276	15.603	15.602	(1.157)	19980	0.33491	25(M)

QC Flag Legend

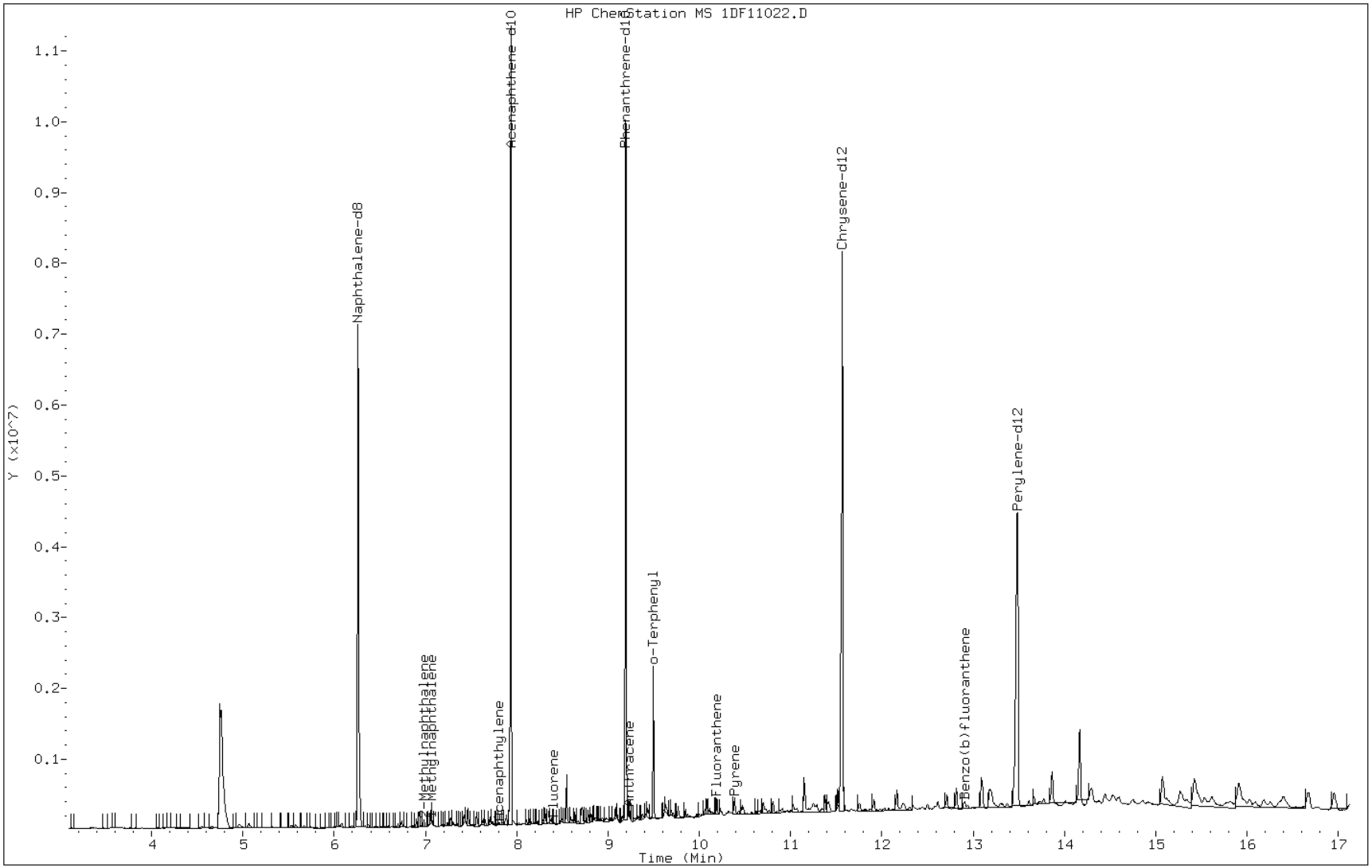
M - Compound response manually integrated.

Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC



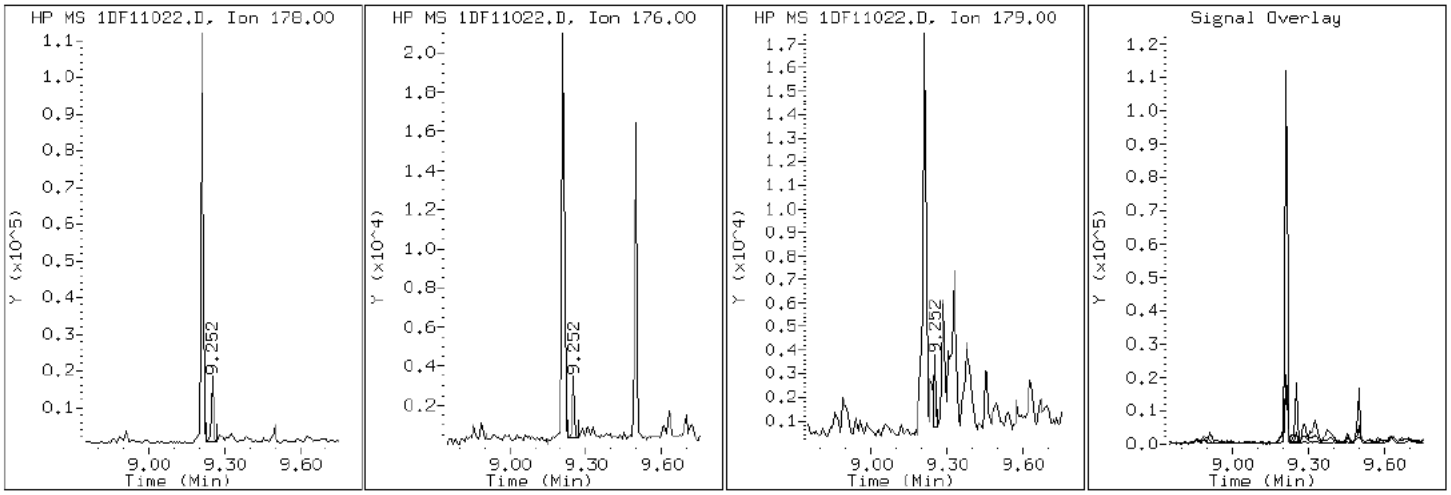
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

13 Anthracene



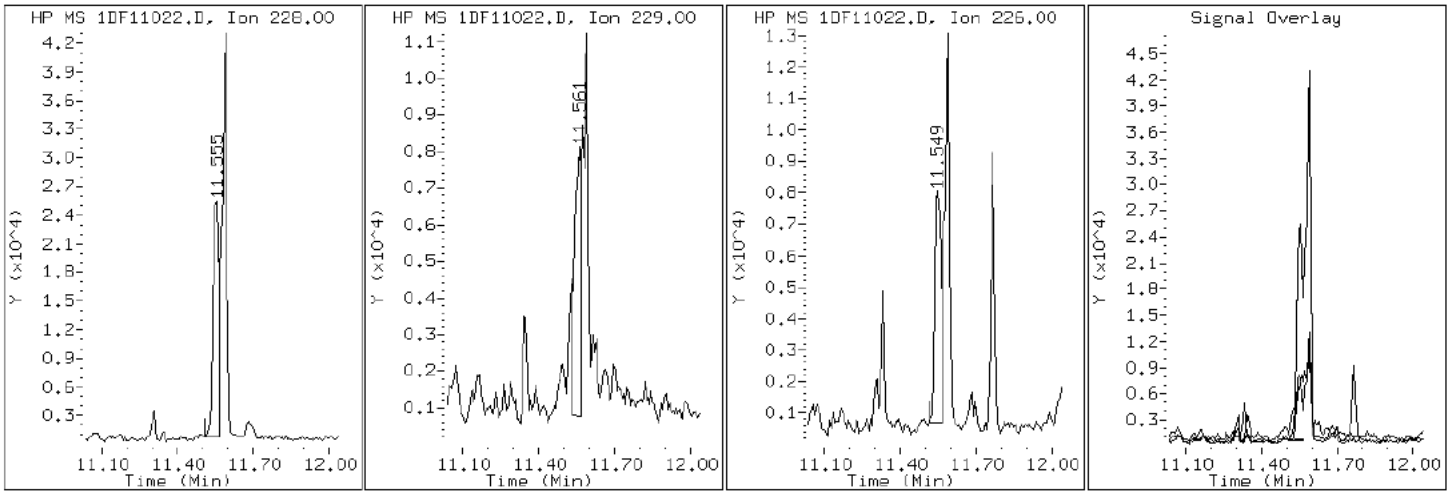
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

18 Benzo(a)anthracene



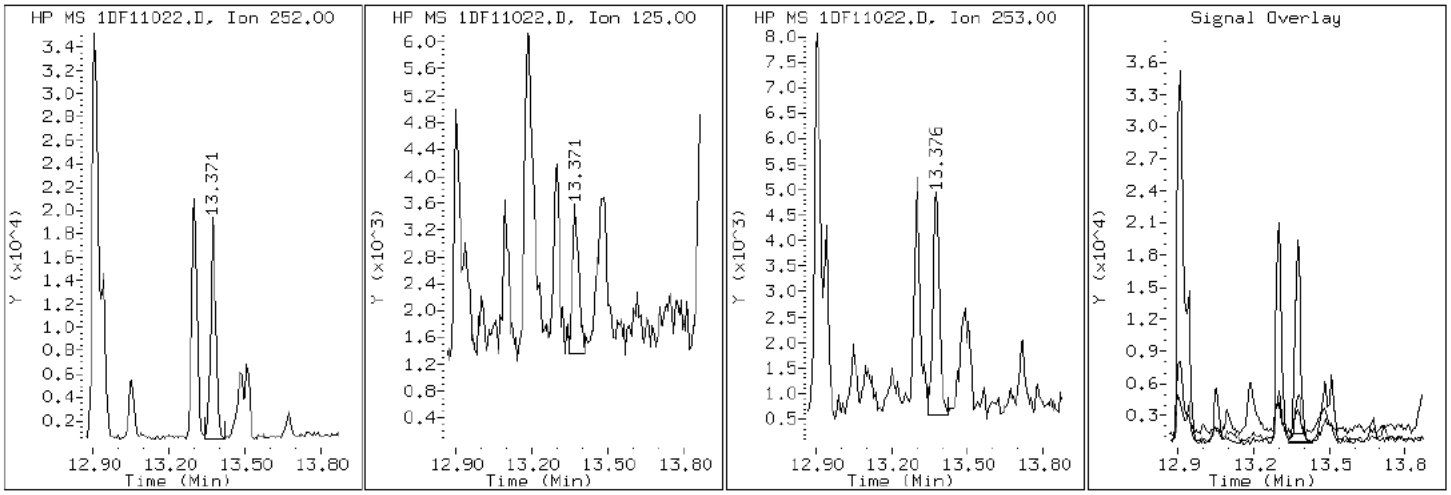
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

23 Benzo(a)pyrene



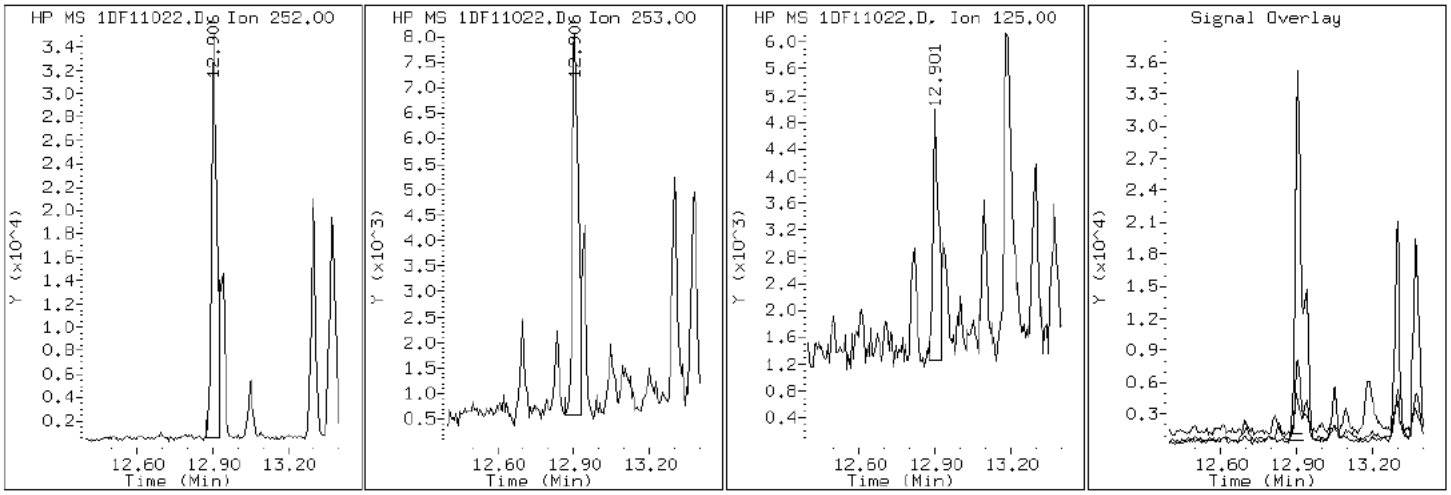
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

21 Benzo(b)fluoranthene



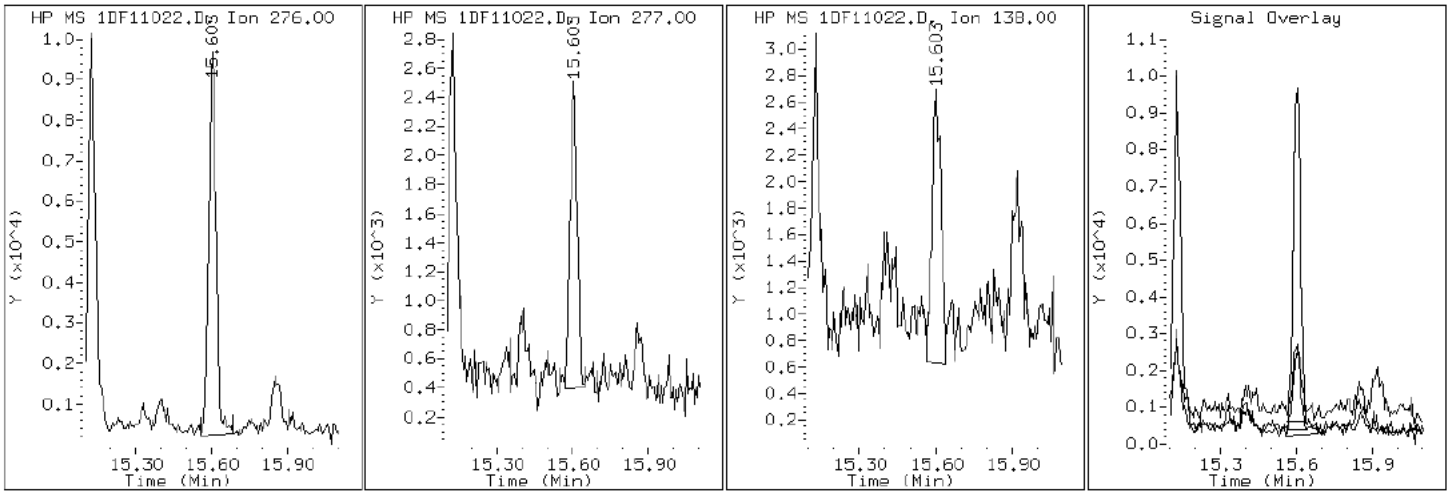
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

27 Benzo(g,h,i)perylene



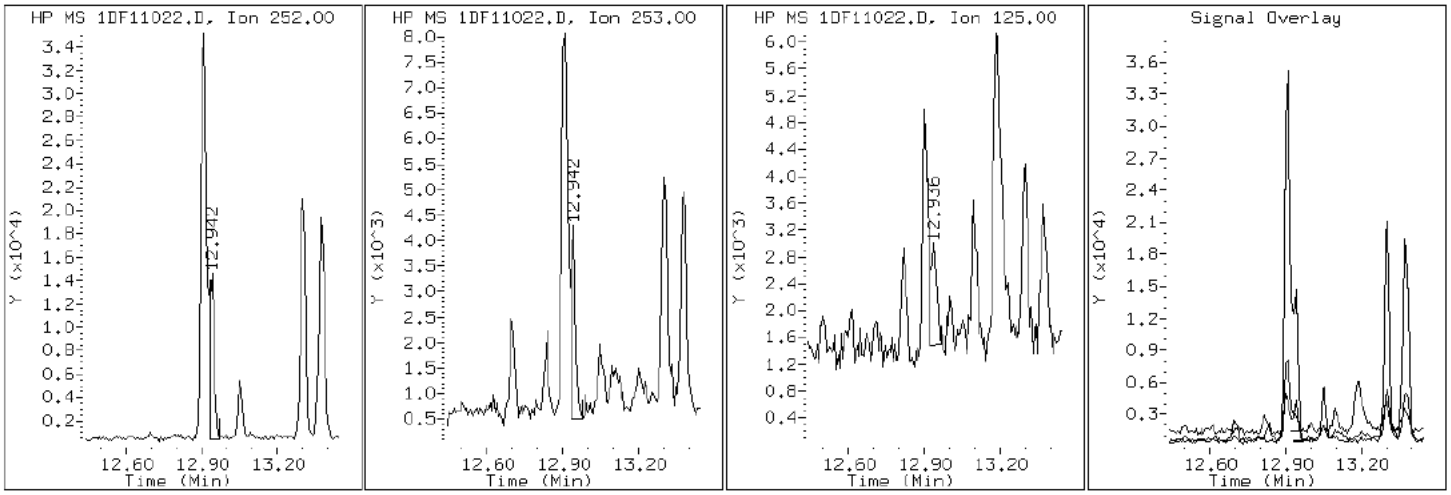
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

22 Benzo(k)fluoranthene



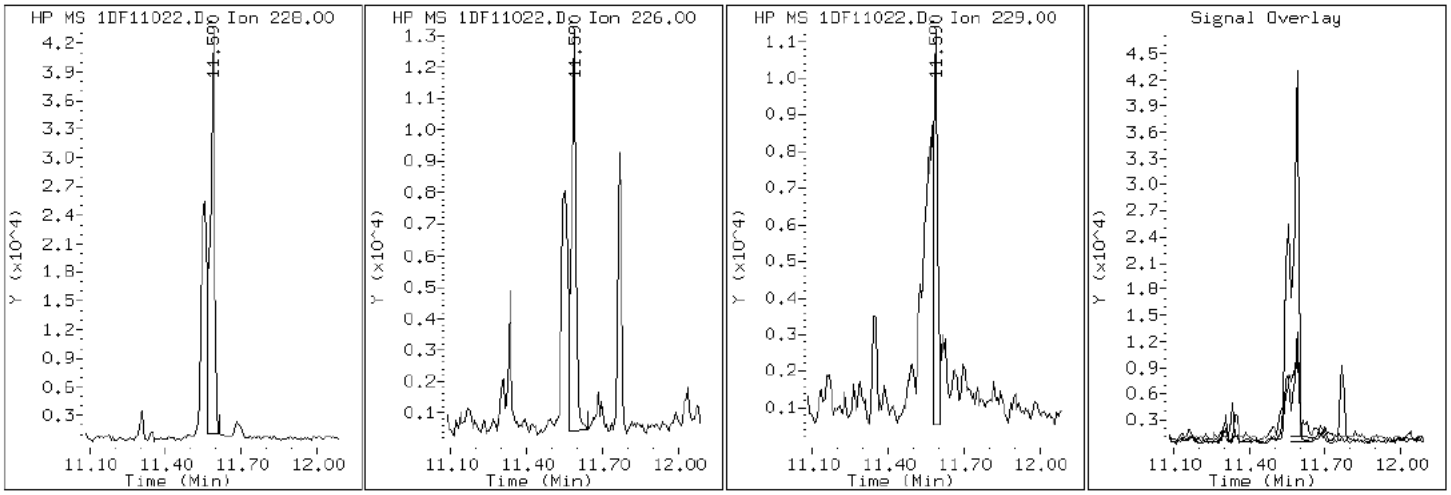
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

20 Chrysene



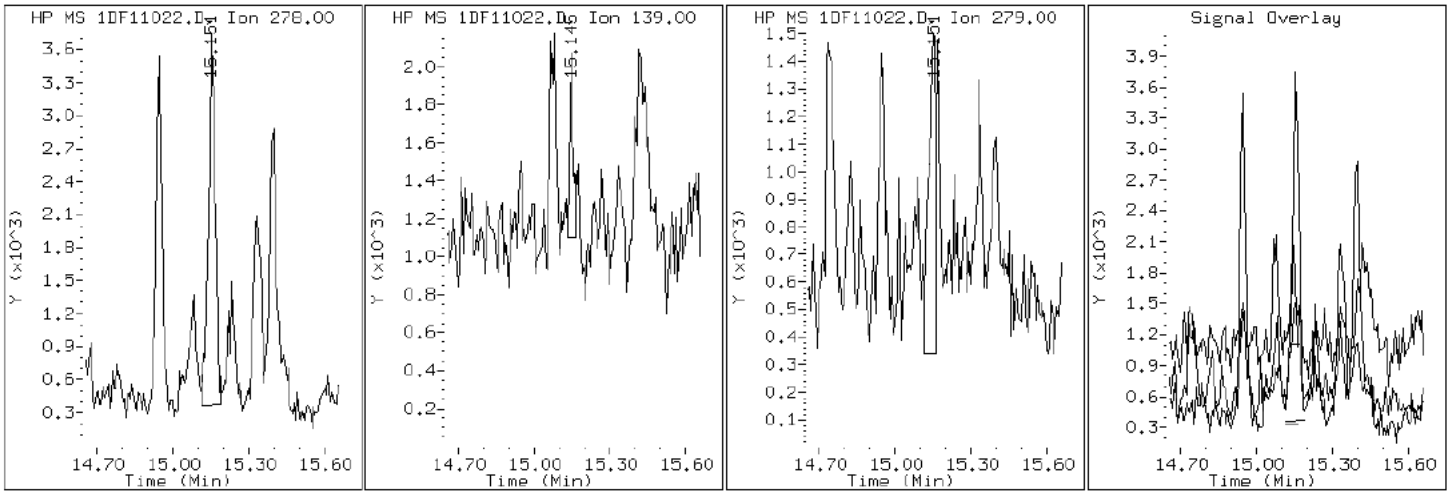
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

26 Dibenzo(a,h)anthracene



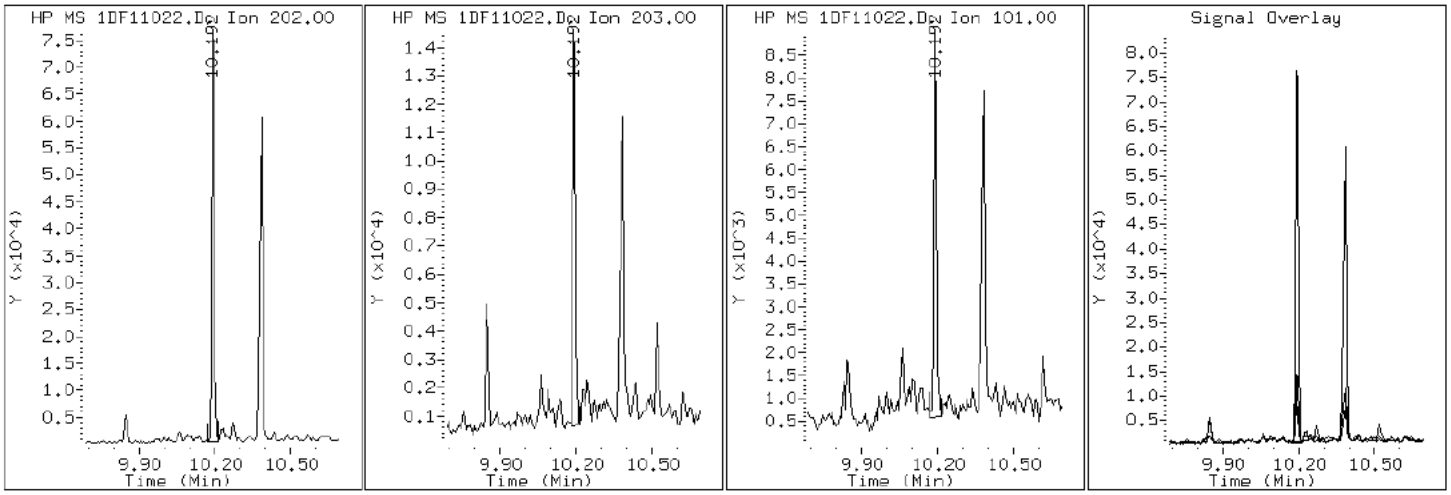
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

16 Fluoranthene



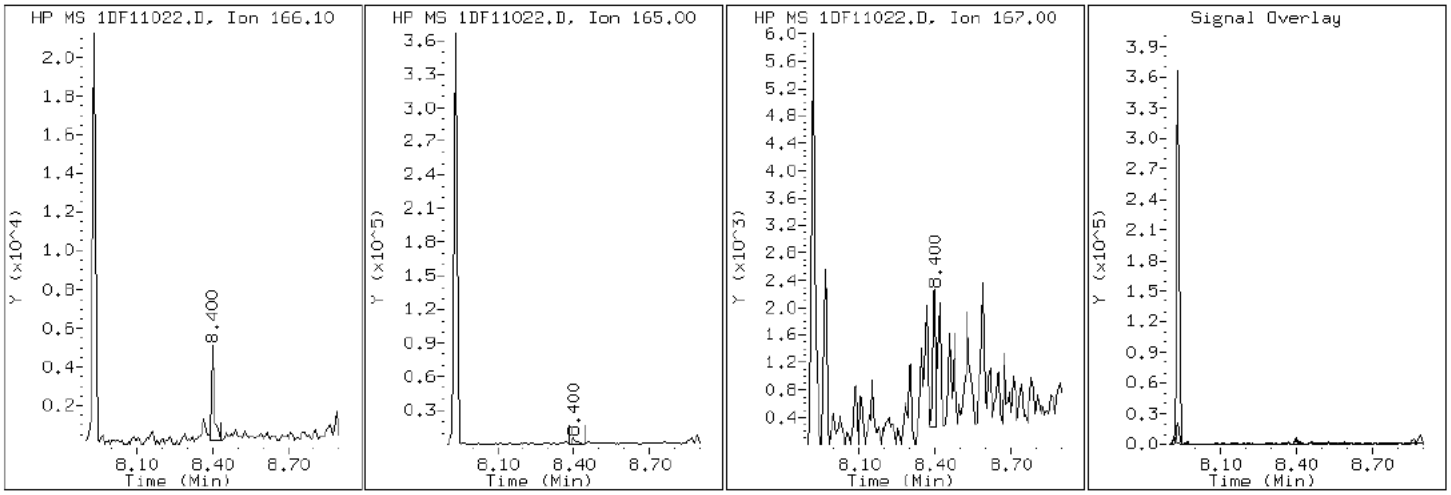
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

10 Fluorene



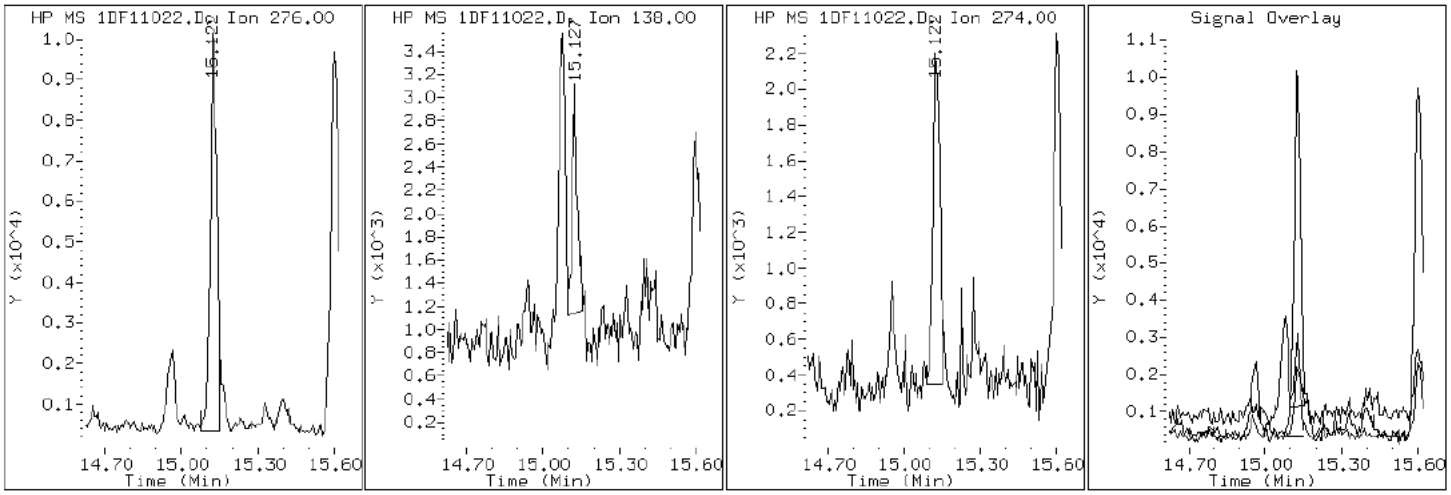
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

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



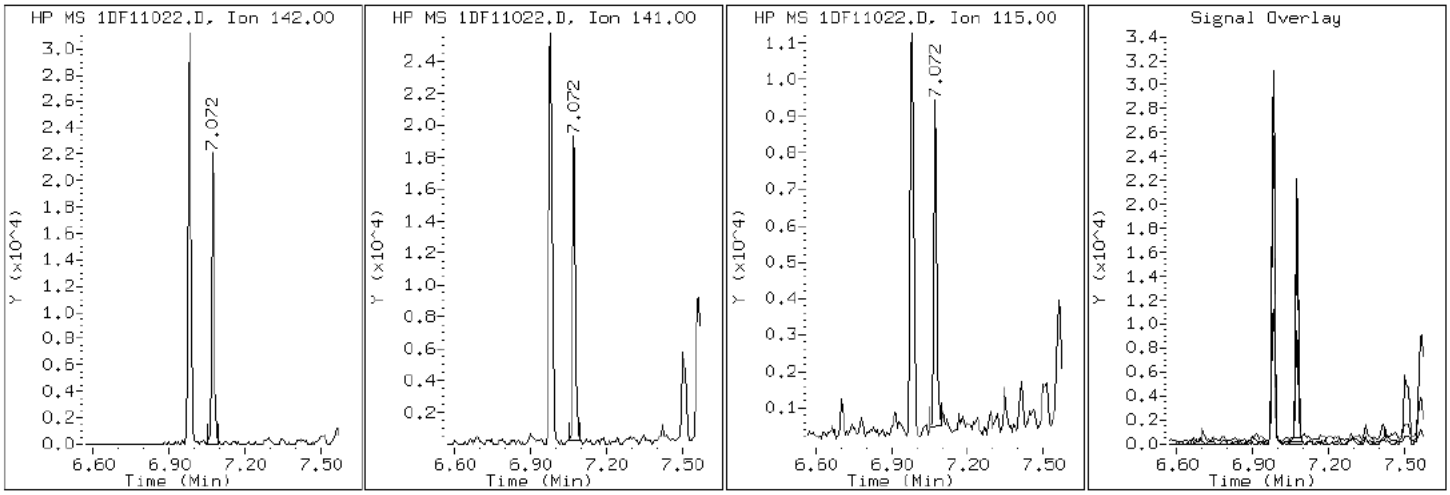
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

4 1-Methylnaphthalene



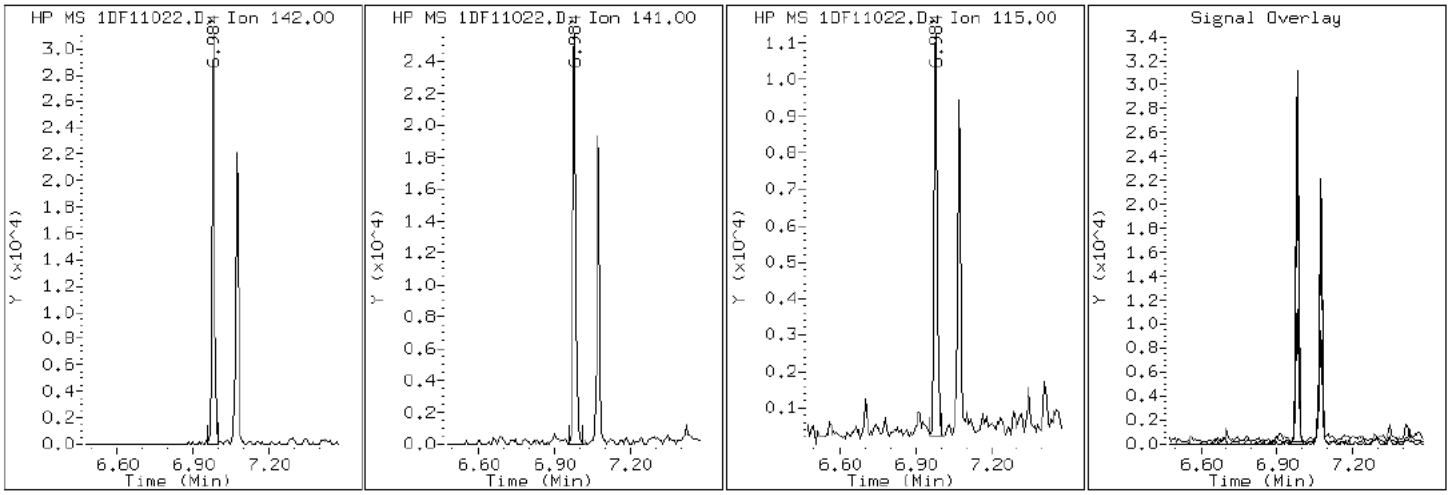
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

3 2-Methylnaphthalene



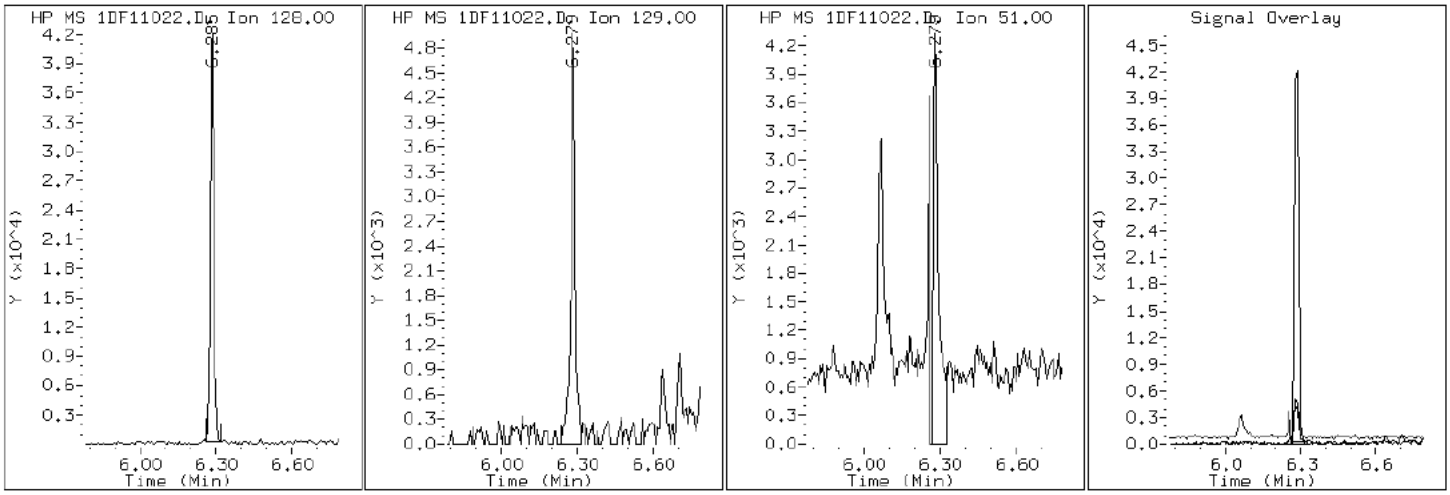
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

2 Naphthalene



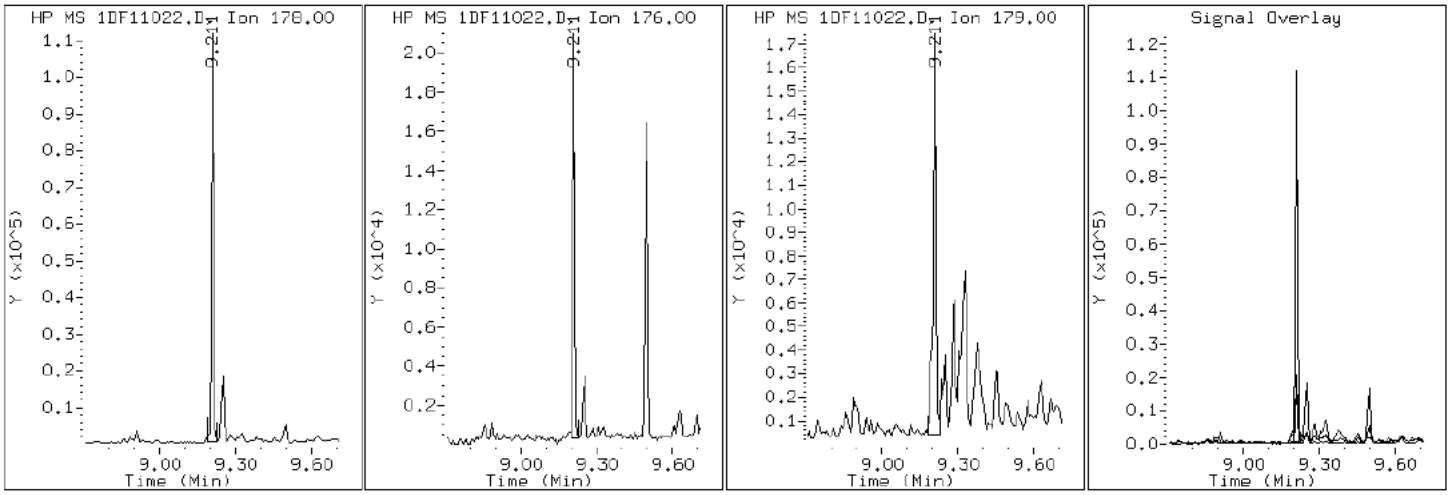
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

12 Phenanthrene



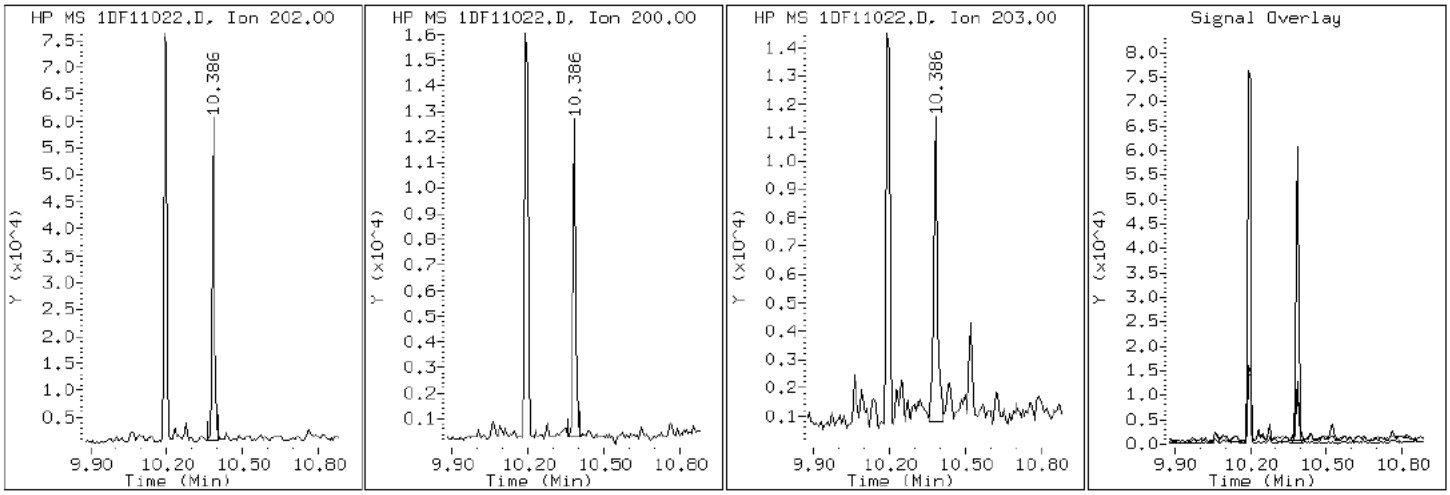
Data File: 1DF11022.D

Date: 11-JUN-2013 19:09

Client ID: FM0097C-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-19-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11022.D
Inj. Date and Time: 11-JUN-2013 19:09
Instrument ID: BSMSD.i
Client ID: FM0097C-CS
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/12/2013

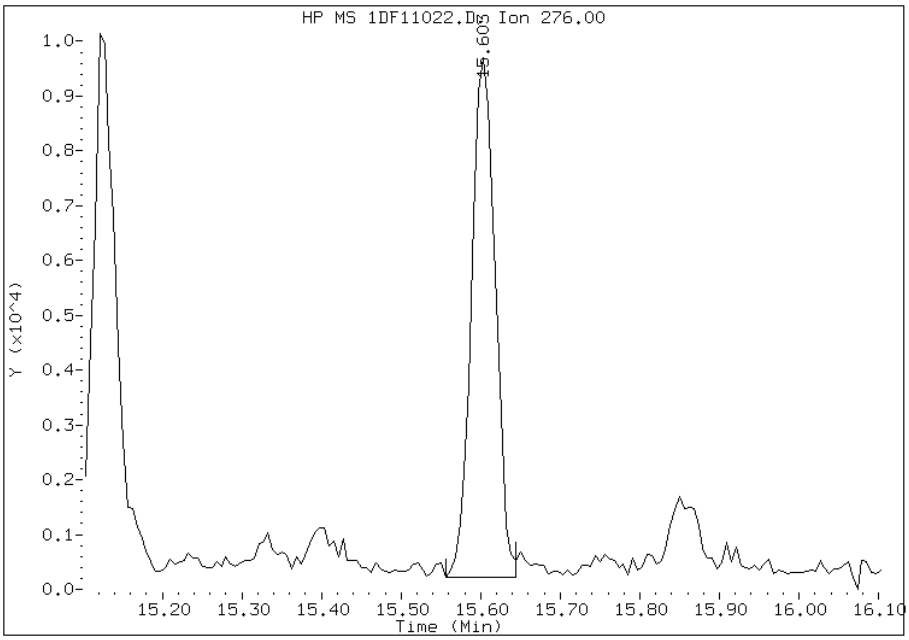
Processing Integration Results

RT: 15.60

Response: 19572

Amount: 0

Conc: 24



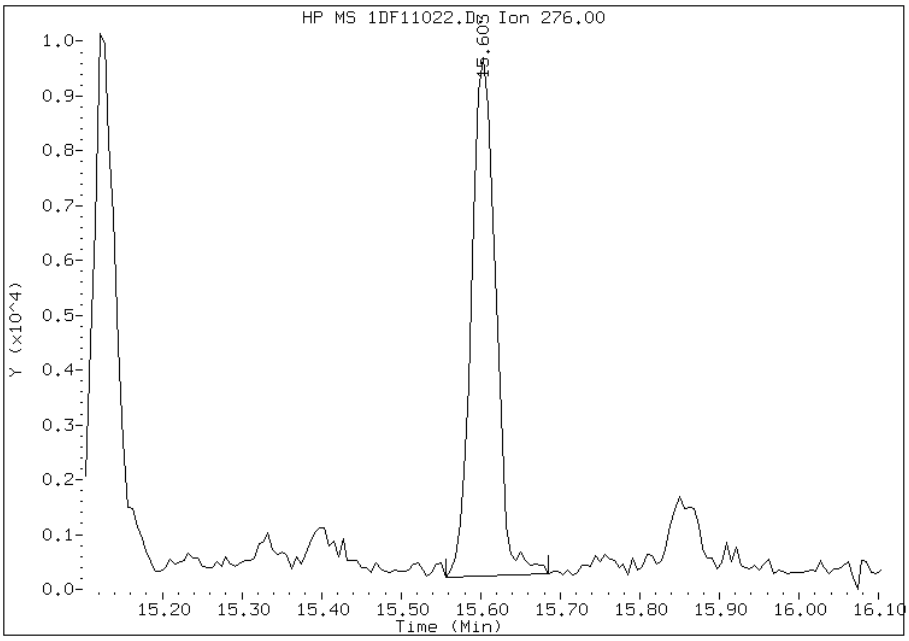
Manual Integration Results

RT: 15.60

Response: 19980

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DF11022.D
Inj. Date and Time: 11-JUN-2013 19:09
Instrument ID: BSMSD.i
Client ID: FM0097C-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

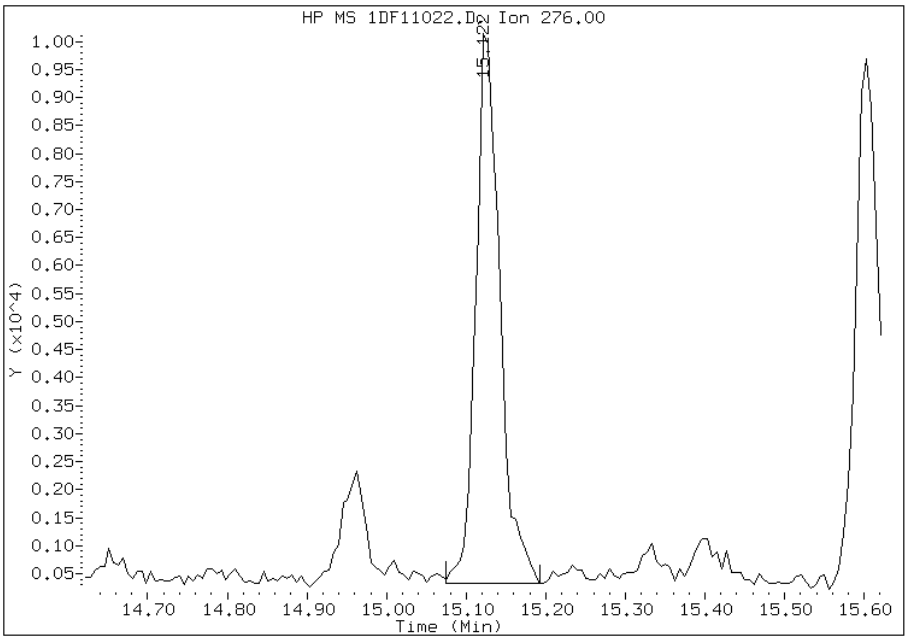
Processing Integration Results

RT: 15.12

Response: 20602

Amount: 0

Conc: 34



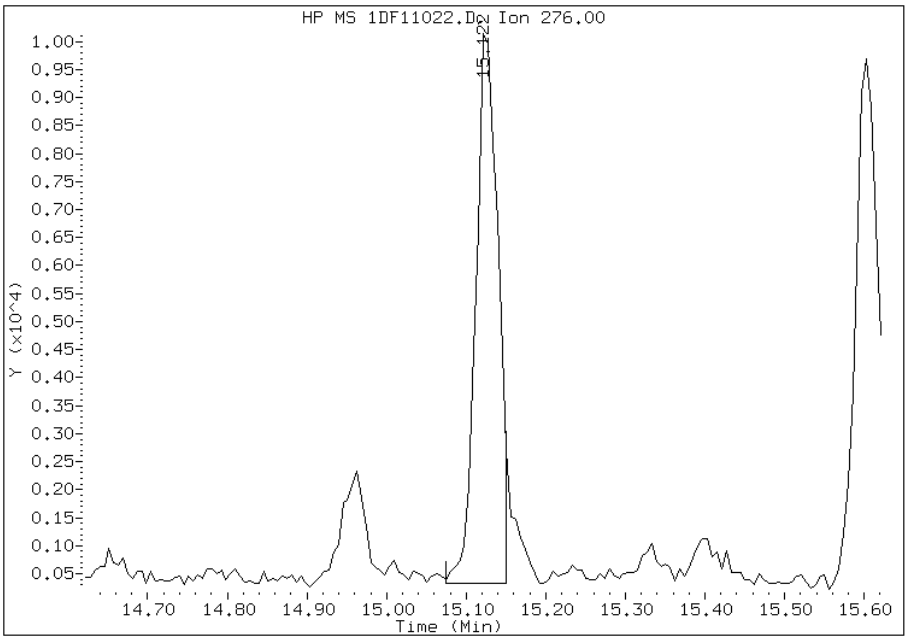
Manual Integration Results

RT: 15.12

Response: 19097

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: FM0097D-CS | Lab Sample ID: 680-90855-20

Matrix: Solid | Lab File ID: 1DF11023.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 14:00

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.18(g) | Date Analyzed: 06/11/2013 19:31

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

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

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	7.2	J	46	5.8
120-12-7	Anthracene	12		9.7	4.9
56-55-3	Benzo[a]anthracene	40		9.3	4.5
50-32-8	Benzo[a]pyrene	45		12	6.0
205-99-2	Benzo[b]fluoranthene	74		14	7.1
191-24-2	Benzo[g,h,i]perylene	27		23	5.1
207-08-9	Benzo[k]fluoranthene	24		9.3	4.2
218-01-9	Chrysene	61		10	5.2
53-70-3	Dibenz(a,h)anthracene	16	J	23	4.7
206-44-0	Fluoranthene	55		23	4.6
86-73-7	Fluorene	6.0	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	37		23	8.2
90-12-0	1-Methylnaphthalene	29	J	46	5.1
91-57-6	2-Methylnaphthalene	43	J	46	8.2
91-20-3	Naphthalene	49		46	5.1
85-01-8	Phenanthrene	67		9.3	4.5
129-00-0	Pyrene	43		23	4.3

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\1D061113.b\1DF11023.D
Lab Smp Id: 680-90855-A-20-A Client Smp ID: FM0097D-CS
Inj Date : 11-JUN-2013 19:31
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-20-a
Misc Info : 680-90855-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 23
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	15.180	Weight Extracted
M	14.700	% 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	6.266	6.260	(1.000)	3263866	40.0000	
*	7 Acenaphthene-d10	164	7.934	7.929	(1.000)	1916110	40.0000	
*	11 Phenanthrene-d10	188	9.198	9.192	(1.000)	3067182	40.0000	
$	15 o-Terphenyl	230	9.497	9.497	(1.033)	302432	6.73043	520
*	19 Chrysene-d12	240	11.566	11.560	(1.000)	2747493	40.0000	
*	24 Perylene-d12	264	13.481	13.469	(1.000)	2352800	40.0000	
	2 Naphthalene	128	6.283	6.284	(1.003)	51452	0.63925	49
	3 2-Methylnaphthalene	142	6.983	6.977	(1.114)	28580	0.55768	43
	4 1-Methylnaphthalene	142	7.077	7.071	(1.129)	20015	0.37936	29
	6 Acenaphthylene	152	7.805	7.799	(0.984)	7449	0.09376	7.2
	10 Fluorene	166	8.399	8.399	(1.058)	4432	0.07772	6.0(Q)
	12 Phenanthrene	178	9.209	9.210	(1.001)	71865	0.86512	67
	13 Anthracene	178	9.251	9.251	(1.006)	12440	0.15434	12
	16 Fluoranthene	202	10.197	10.191	(1.109)	60561	0.71262	55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.385	10.379	(0.898)	44844	0.55748	43
18 Benzo(a)anthracene	228	11.554	11.536	(0.999)	41931	0.51424	40
20 Chrysene	228	11.589	11.583	(1.002)	57920	0.78883	61
21 Benzo(b)fluoranthene	252	12.905	12.899	(0.957)	56526	0.95900	74
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.960)	19088	0.30924	24
23 Benzo(a)pyrene	252	13.375	13.369	(0.992)	28464	0.58626	45
25 Indeno(1,2,3-cd)pyrene	276	15.132	15.120	(1.122)	20009	0.47521	37(M)
26 Dibenzo(a,h)anthracene	278	15.161	15.156	(1.125)	7250	0.20090	16
27 Benzo(g,h,i)perylene	276	15.608	15.602	(1.158)	18768	0.35131	27

QC Flag Legend

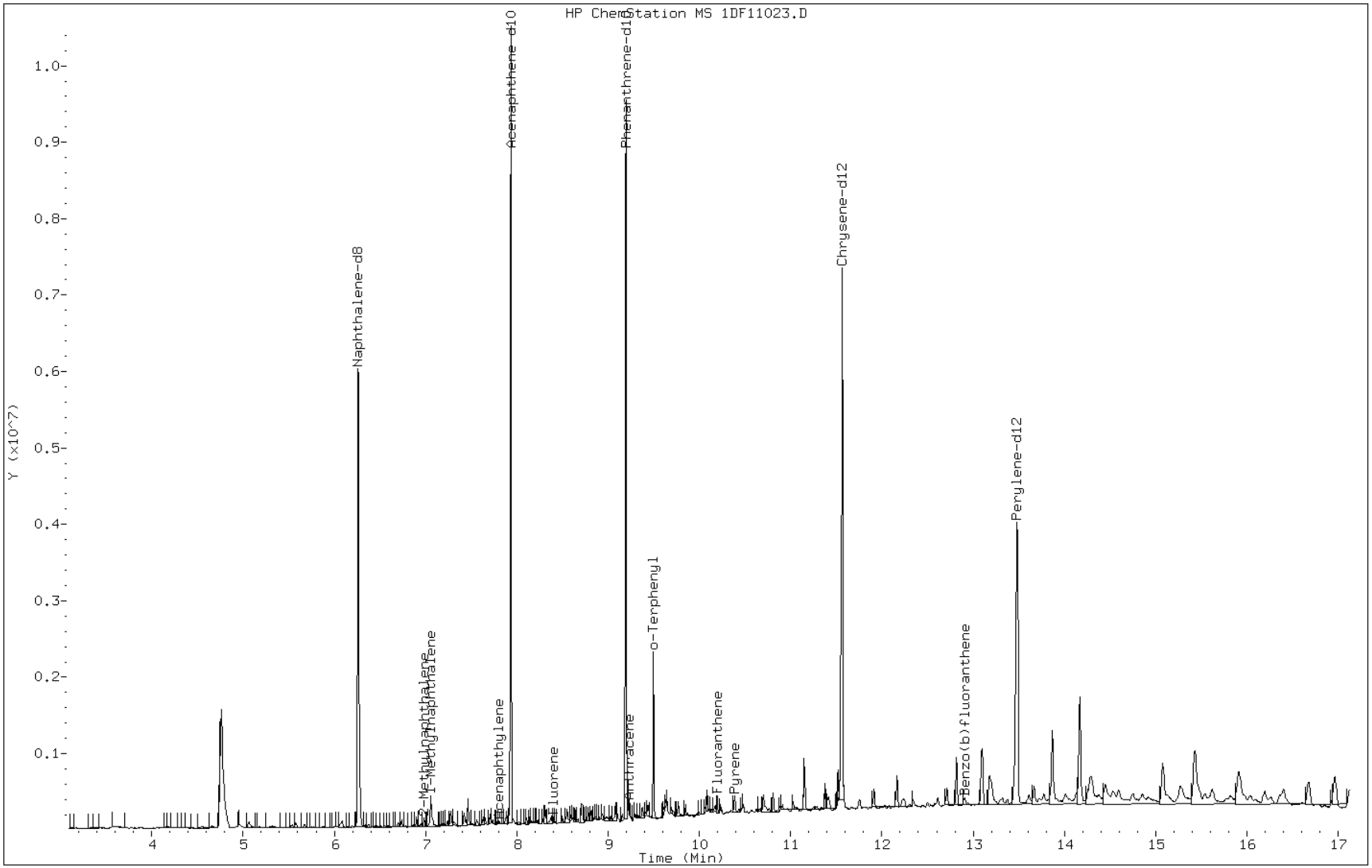
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC



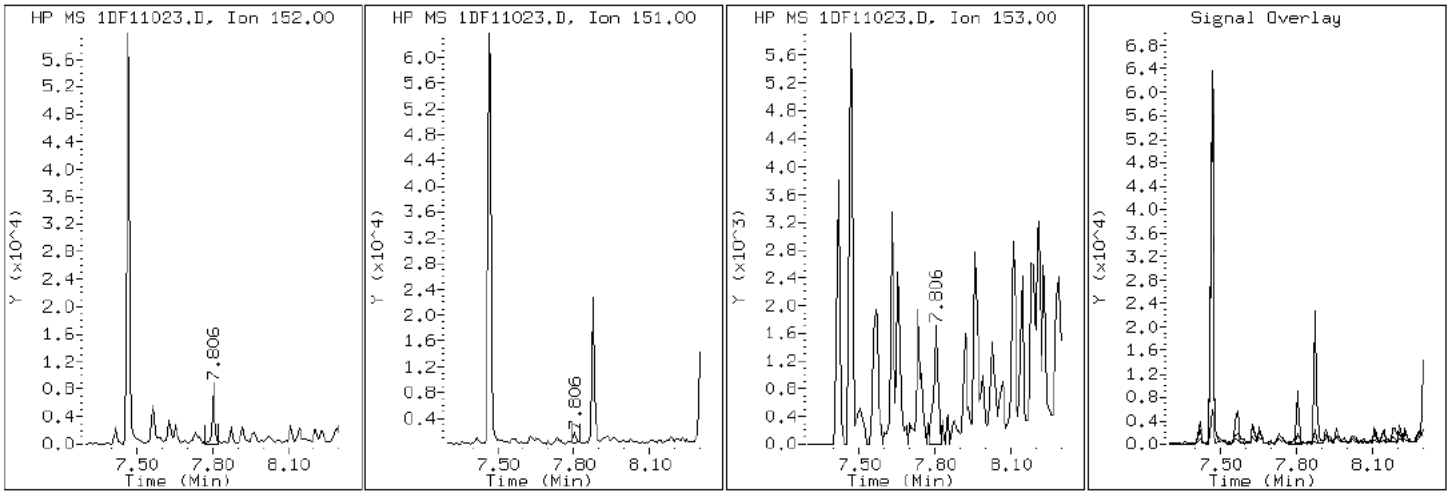
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

6 Acenaphthylene



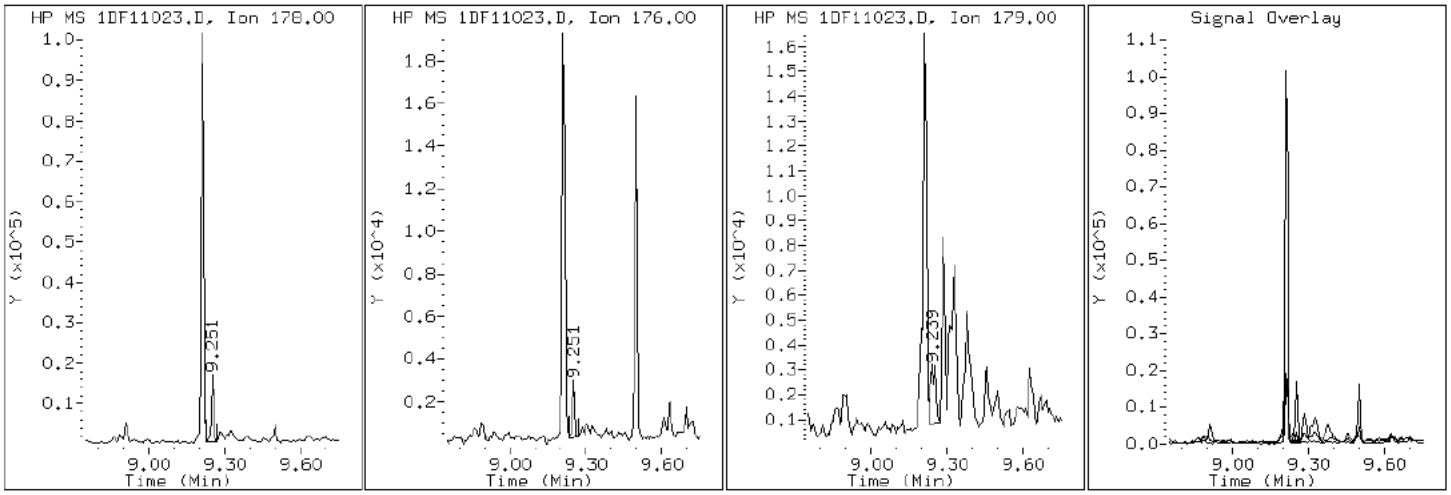
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

13 Anthracene



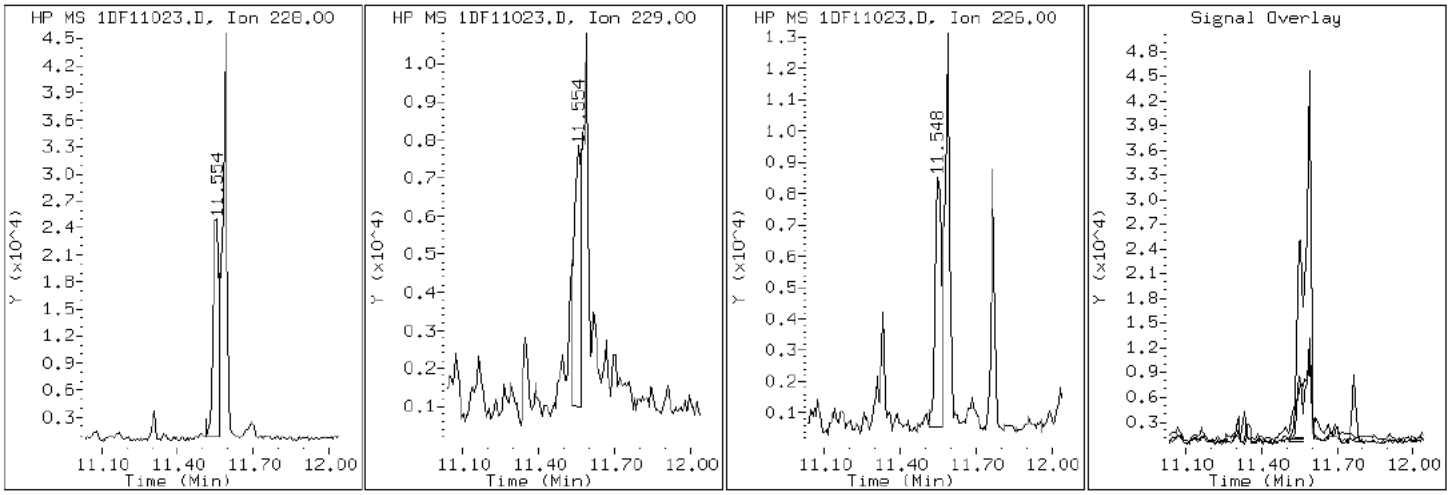
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

18 Benzo(a)anthracene



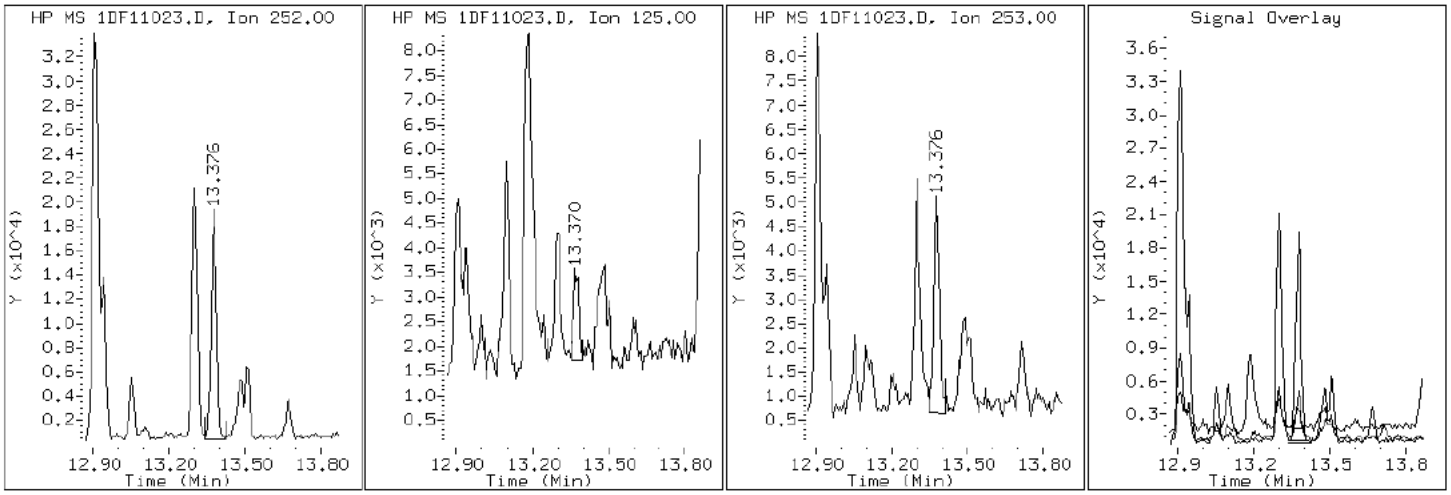
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

23 Benzo(a)pyrene



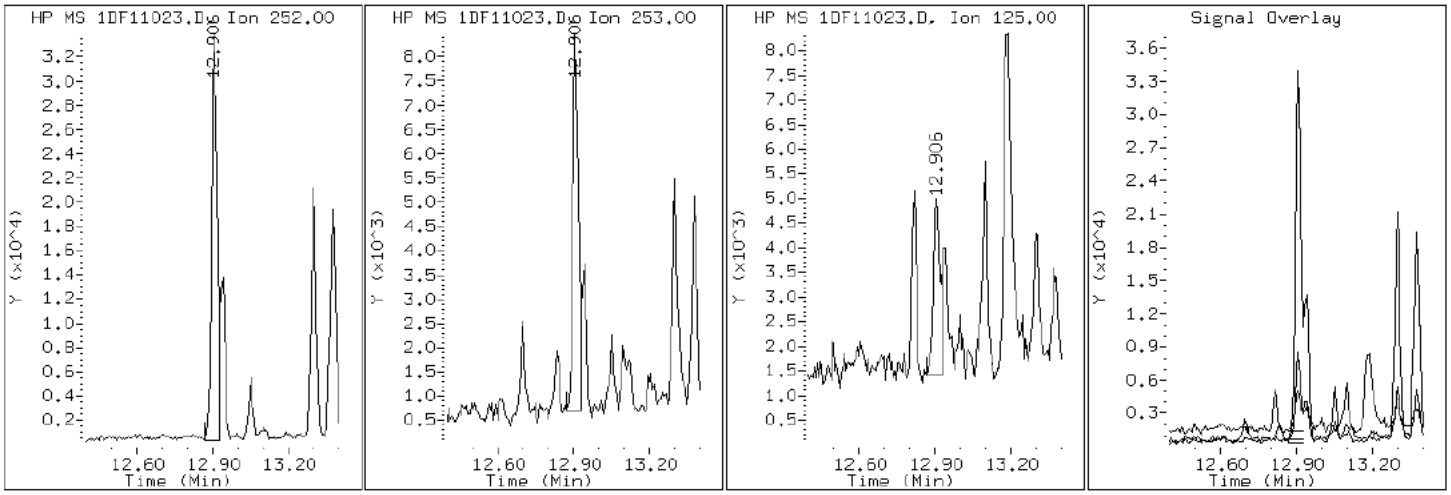
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

21 Benzo(b)fluoranthene



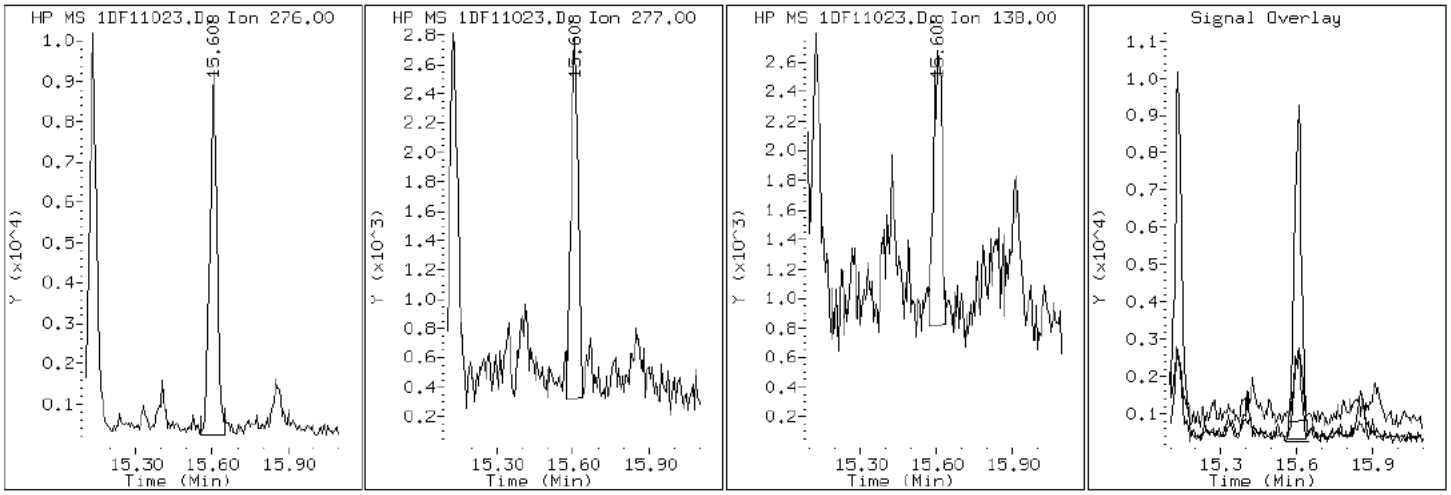
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

27 Benzo(g,h,i)perylene



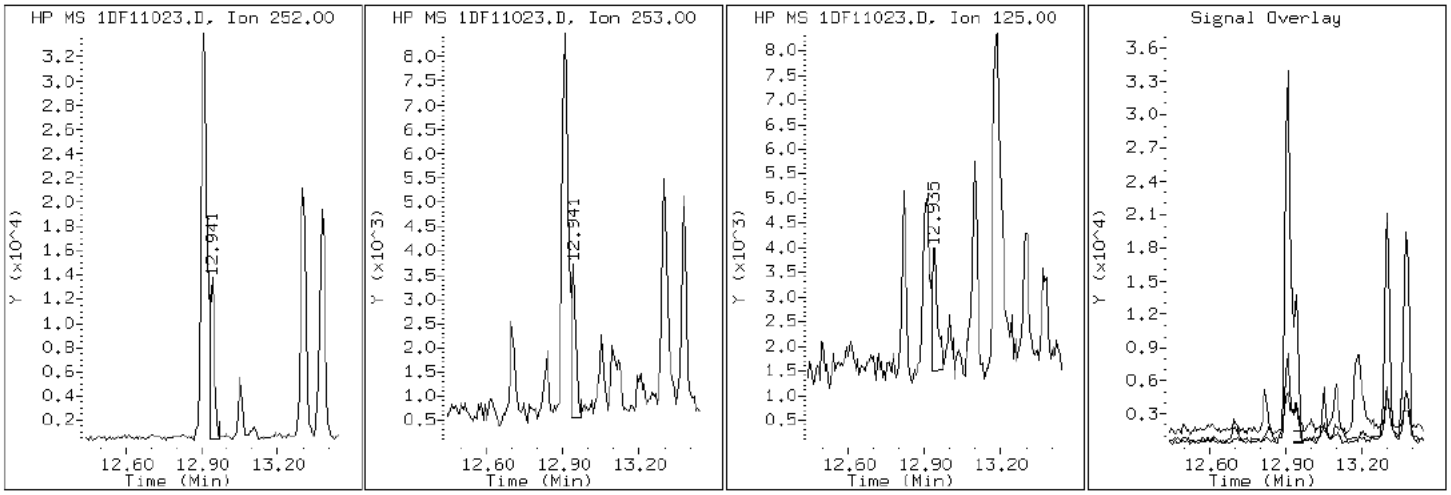
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

22 Benzo(k)fluoranthene



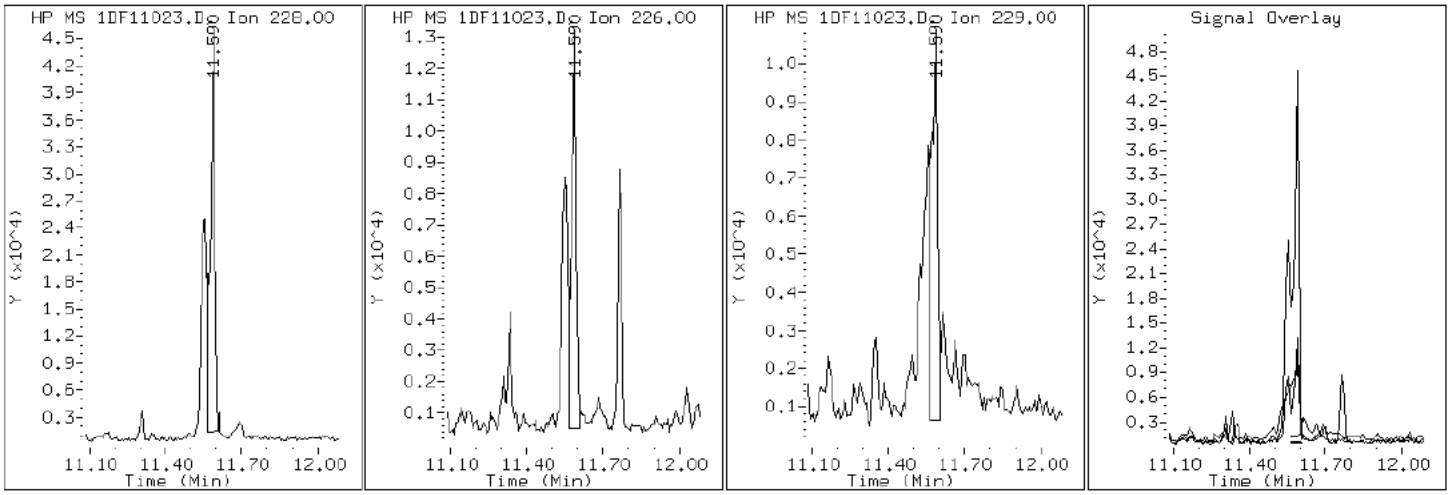
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

20 Chrysene



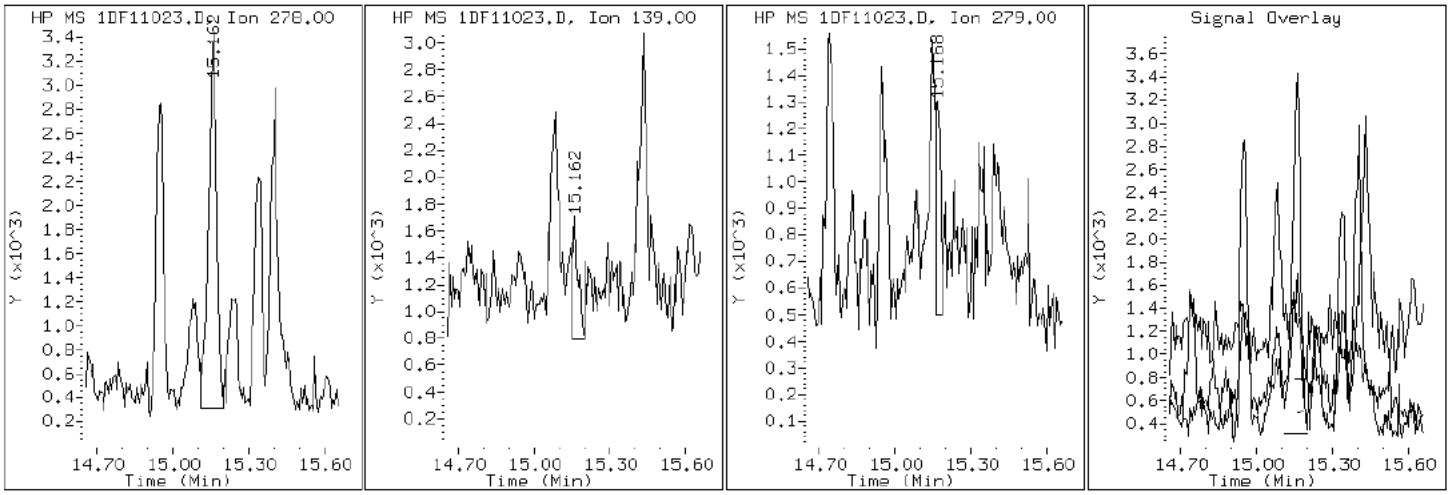
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

26 Dibenzo(a,h)anthracene



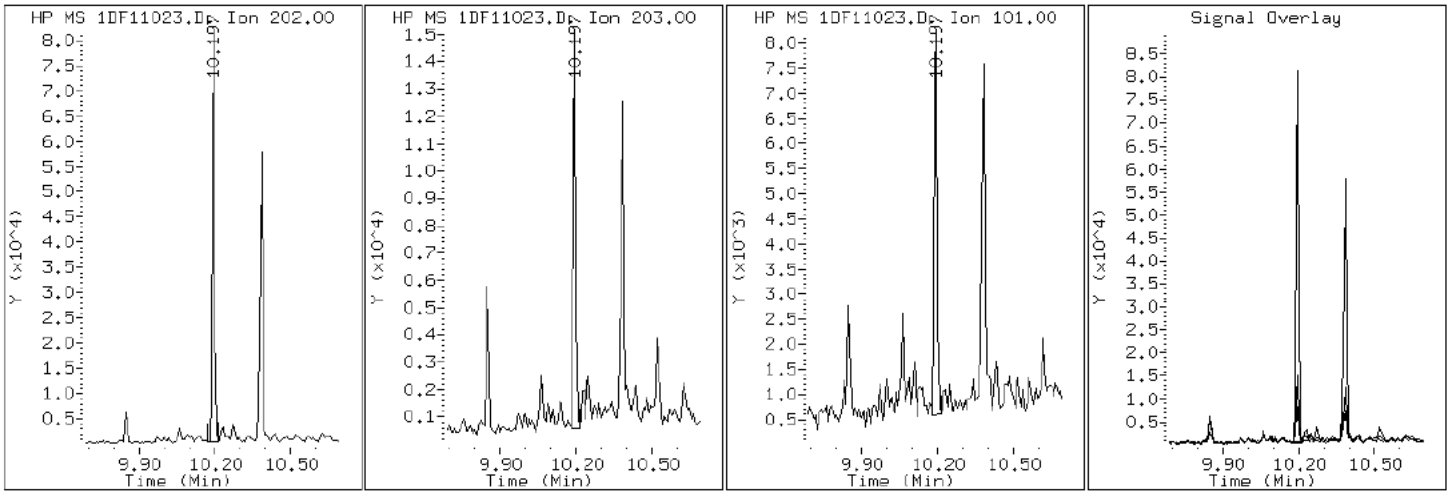
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

16 Fluoranthene



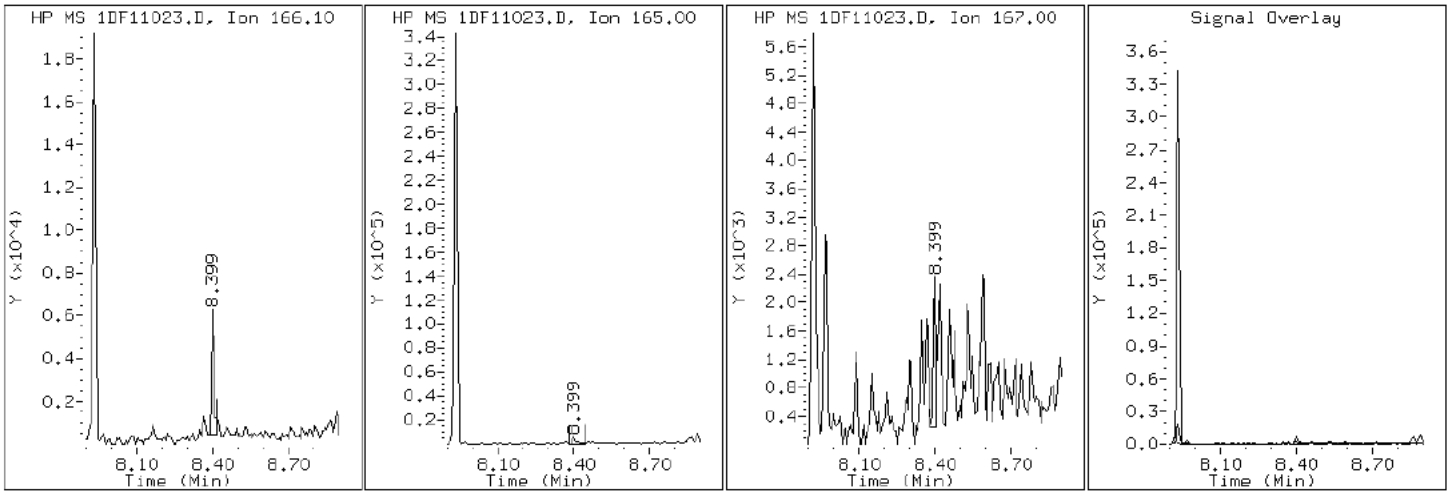
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

10 Fluorene



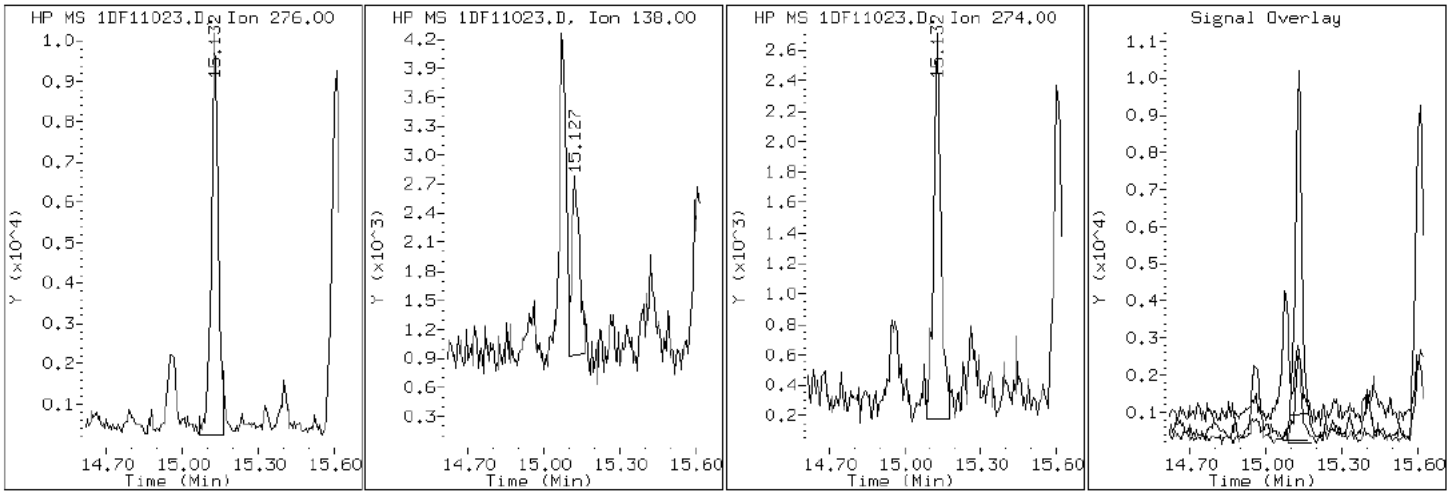
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

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



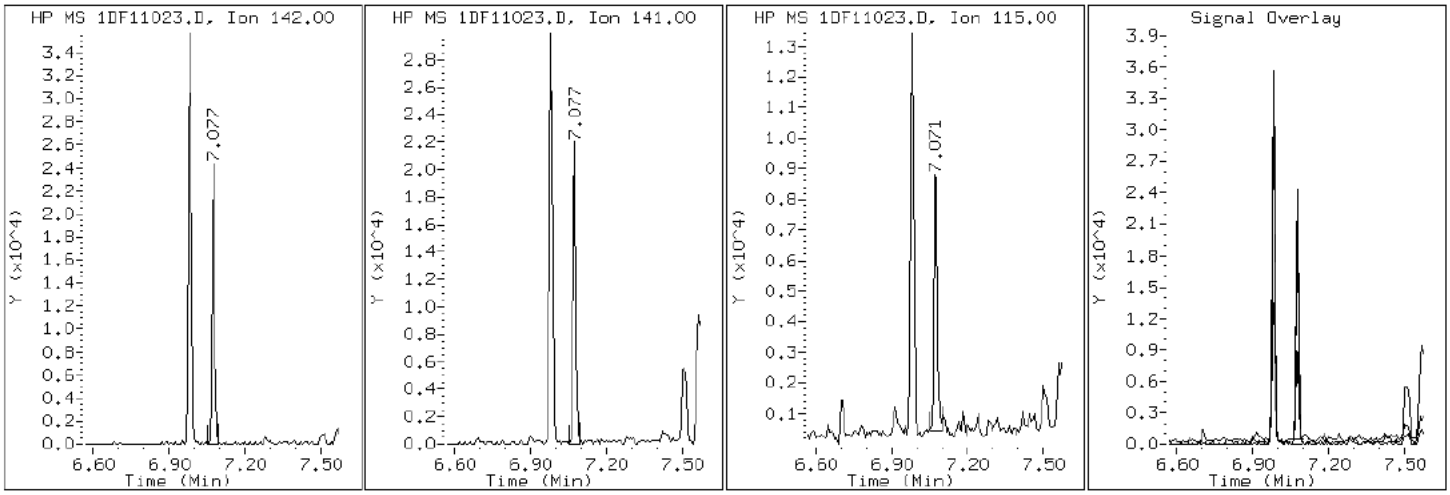
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

4 1-Methylnaphthalene



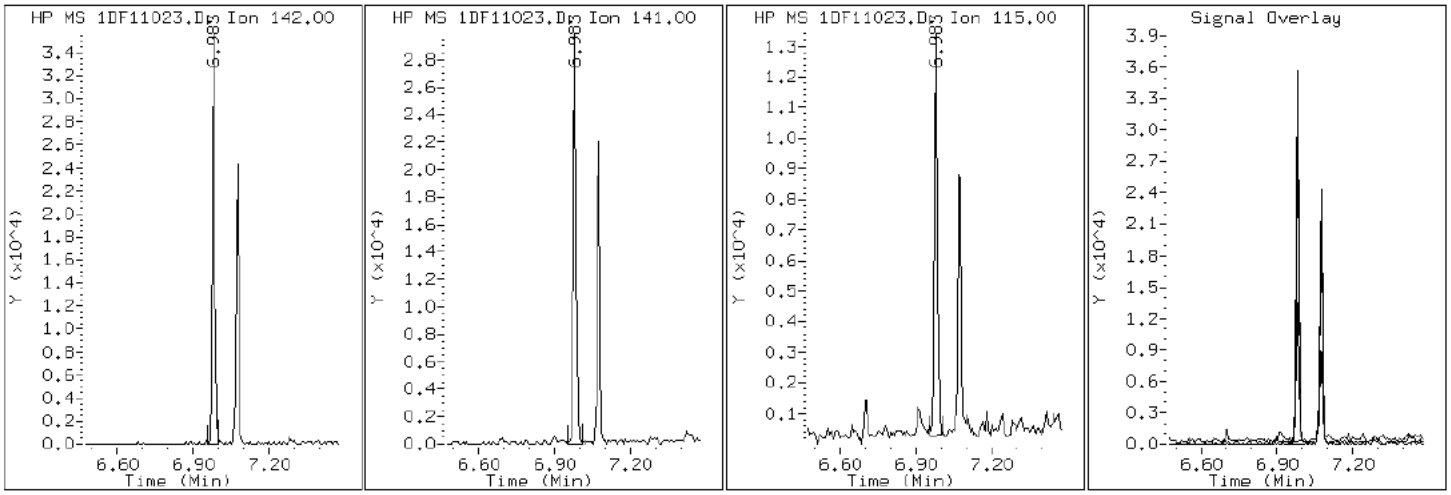
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

3 2-Methylnaphthalene



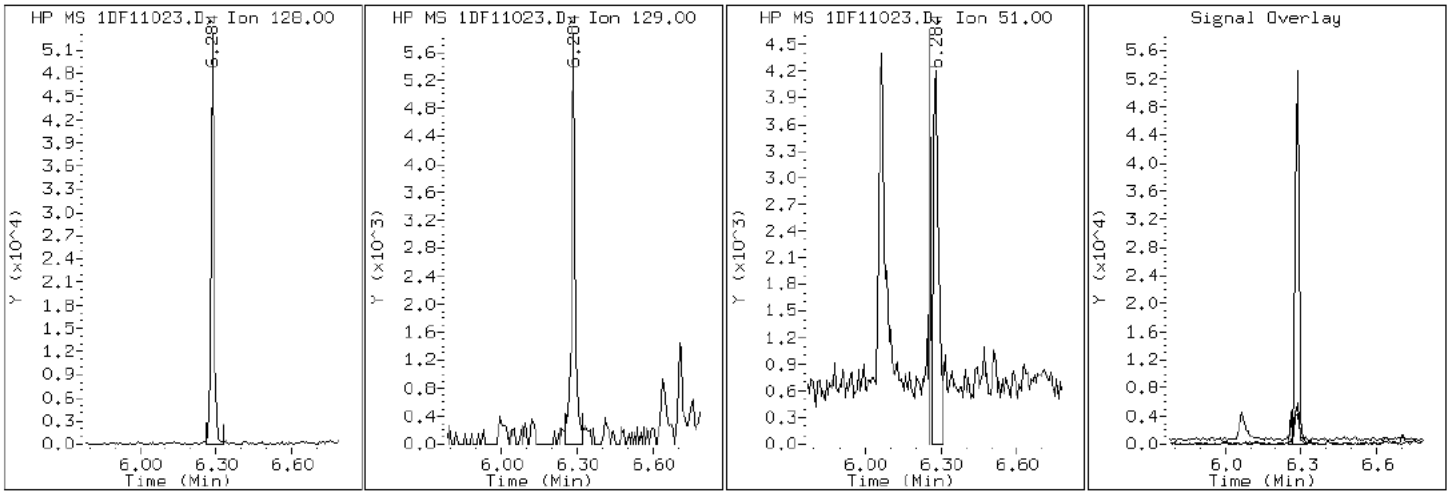
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

2 Naphthalene



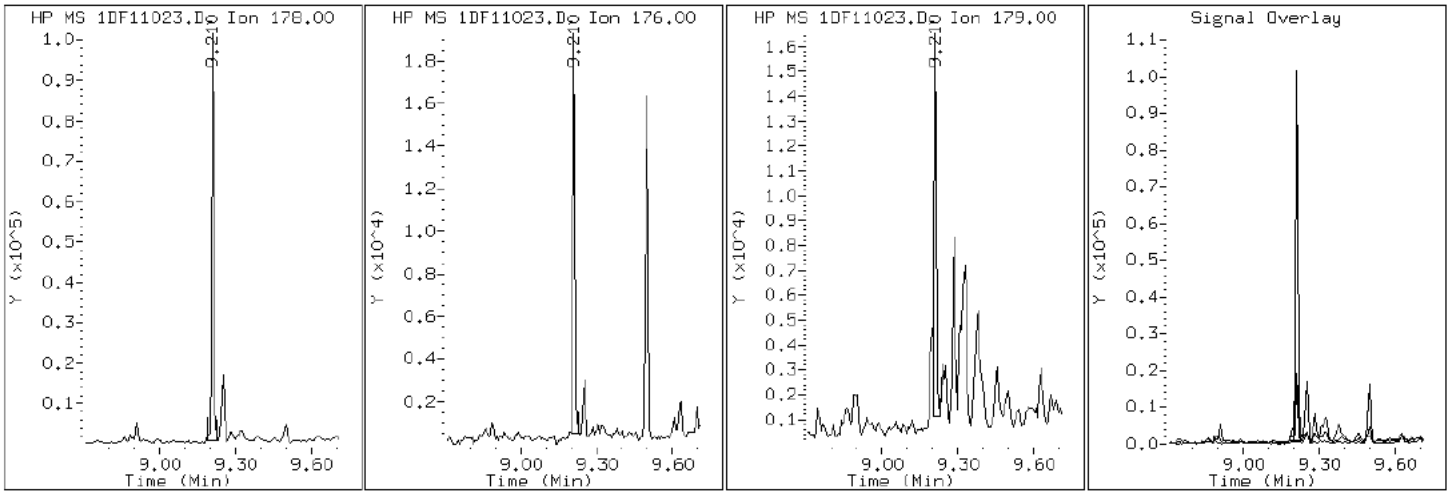
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

12 Phenanthrene



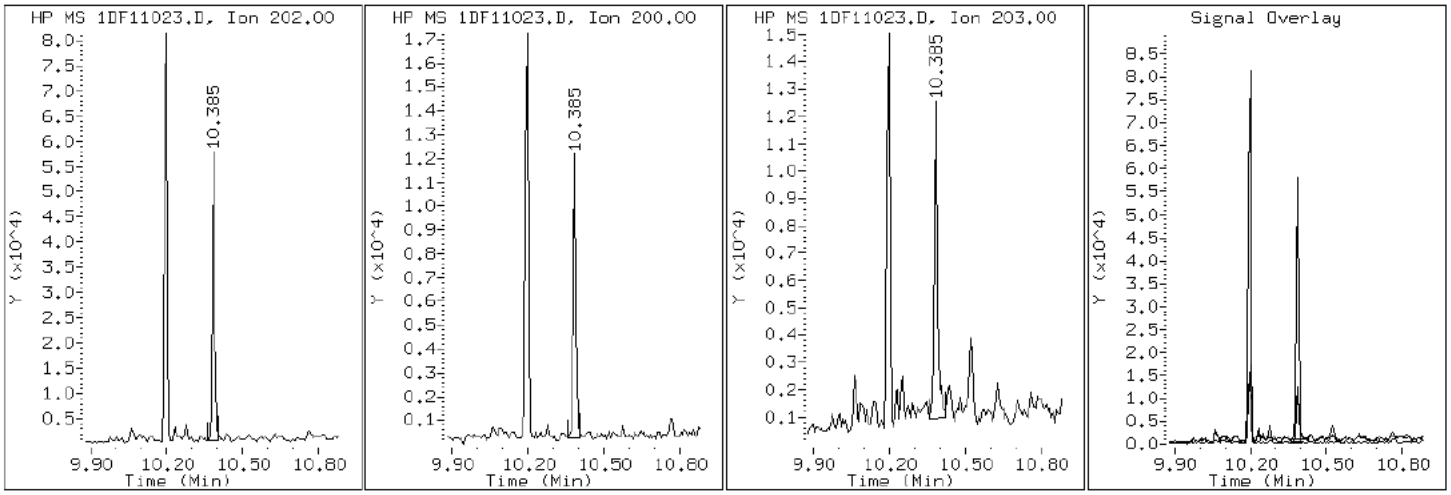
Data File: 1DF11023.D

Date: 11-JUN-2013 19:31

Client ID: FM0097D-CS Instrument: BSMSD.i

Sample Info: 680-90855-a-20-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF11023.D
Inj. Date and Time: 11-JUN-2013 19:31
Instrument ID: BSMSD.i
Client ID: FM0097D-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

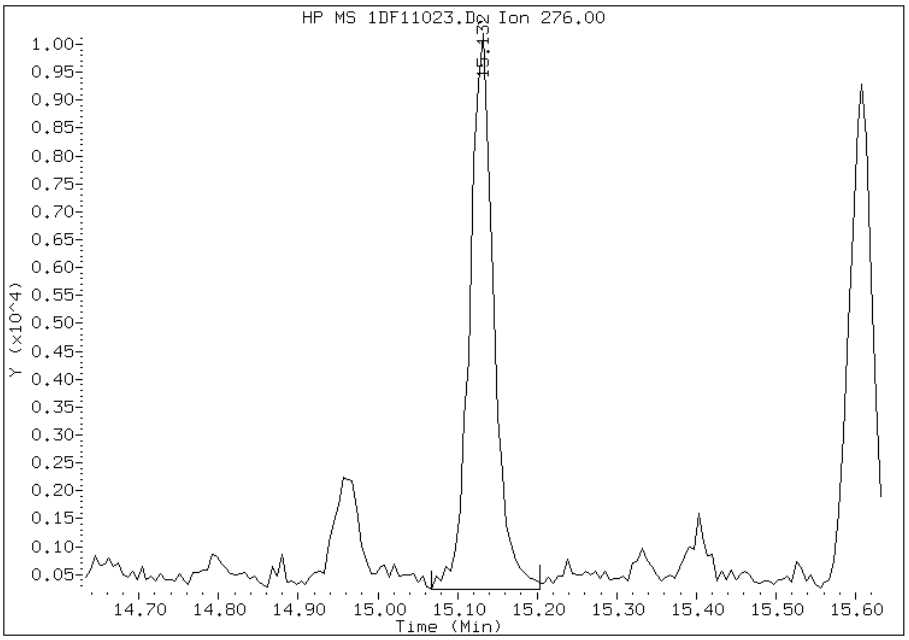
Processing Integration Results

RT: 15.13

Response: 20865

Amount: 0

Conc: 38



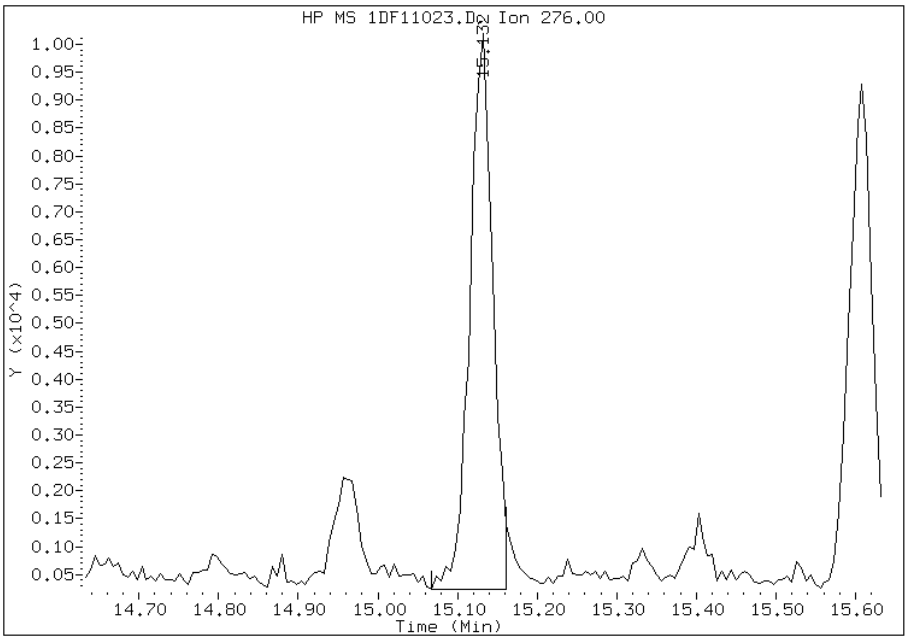
Manual Integration Results

RT: 15.13

Response: 20009

Amount: 0

Conc: 37



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

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-1 Analy Batch No.: 137704

SDG No.: 68090855-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.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	0.9182 0.9509	0.9422 1.0286	1.0667	0.9369	0.9568	Ave		1.1288			0.0000	5.6		15.0			
2-Methylnaphthalene	0.6242 0.6258	0.5686 0.6710	0.6225	0.6315	0.6391	Ave		0.6261			0.0000	4.9		15.0			
1-Methylnaphthalene	0.7438 0.6277	0.4975 0.6372	0.5963	0.6068	0.6028	Ave		0.6160			0.0000	11.8		15.0			
Acenaphthylene	1.2563 1.6292	1.4148 1.6925	1.5322	1.5773	1.6316	Ave		1.5334			0.0000	9.9		15.0			
Acenaphthene	0.7430 0.9987	0.8575 1.0497	1.0996	0.9725	1.0102	Ave		0.9616			0.0000	12.7		15.0			
Fluorene	0.9904 1.3220	1.0977 1.3921	1.2331	1.2548	1.2987	Ave		1.2270			0.0000	11.3		15.0			
Phenanthrene	1.4131 1.1675	1.0733 1.2047	1.2101	1.0895	1.1143	Ave		1.1818			0.0000	9.8		15.0			
Anthracene	0.8123 1.1883	1.1171 1.2099	1.1168	1.0984	1.1211	Ave		1.0948			0.0000	12.0		15.0			
Fluoranthene	1.0490 1.3113	1.0871 1.3420	1.2157	1.1933	1.2571	Ave		1.2079			0.0000	9.0		15.0			
Pyrene	1.0885 1.1391	0.9218 1.1459	1.0775	1.0624	1.1258	Ave		1.0801			0.0000	7.1		15.0			
Benzo[a]anthracene	1.3846 1.1143	0.9995 1.1132	1.0089	1.0134	1.0870	Ave		1.1030			0.0000	12.1		15.0			
Chrysene	0.9124 1.1117	1.1529 1.1361	1.2178	1.1306	1.1120	Ave		1.1105			0.0000	8.5		15.0			
Benzo[b]fluoranthene	0.9101 1.0977	0.8395 1.1170	0.9076	0.9393	1.0683	Ave		0.9828			0.0000	11.1		15.0			
Benzo[k]fluoranthene	0.9706 1.1302	0.9697 1.2215	1.1208	1.1676	1.1031	Ave		1.0977			0.0000	8.7		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.: 680-90855-1 Analy Batch No.: 137704

SDG No.: 68090855-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

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[a]pyrene	0.5319 1.0385	0.7463 1.1113	0.9316	0.9755	1.0099	Lin2	0.0025	1.0051							0.9923		
Indeno[1,2,3-cd]pyrene	0.5693 1.0544	0.7359 1.1402	0.8970	0.9571	0.9660	None	0.0040	1.0698							0.9942		
Dibenz(a,h)anthracene	0.7117 0.9449	0.7154 0.9858	0.8240	0.8860	0.9085	Ave		0.8538			0.0000	12.6		15.0			
Benzo[g,h,i]perylene	0.8170 0.9805	0.7856 1.0513	0.9373	0.9390	0.9942	Ave		0.9293			0.0000	10.3		15.0			
o-Terphenyl	0.5070 0.6731	0.6108 0.6782	0.6532	0.6025	0.6369	Ave		0.6231			0.0000	9.4		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.: 680-90855-1 Analy Batch No.: 137704

SDG No.: 68090855-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.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	10788 1475133	43167 2829693	277572	502511	1290268	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7334 970702	26053 1846051	161984	338697	861867	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8739 973704	22793 1753070	155163	325468	812801	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10091 1744024	43693 3262336	272410	595358	1503680	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5968 1069111	26483 2023281	195498	367076	930965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7955 1415229	33899 2683311	219224	473626	1196881	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22296 2310027	62422 4422781	404697	781016	2021508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12816 2351205	64974 4441751	373497	787403	2033868	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16551 2594572	63229 4926903	406556	855481	2280567	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	20607 2821005	64768 5350270	445351	946073	2585241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	26214 2759615	70230 5197458	417004	902407	2496189	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	17274 2753228	81010 5304178	503367	1006797	2553612	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	17929 2780406	62459 5119876	393956	813573	2511123	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	19122 2862522	72150 5598875	486517	1011311	2593145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	10479 2630366	55523 5093564	404398	844912	2373859	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.: 680-90855-1 Analy Batch No.: 137704

SDG No.: 68090855-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

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
Indeno[1,2,3-cd]pyrene	PRY	None	11215 2670728	54750 5226444	389350	828947	2270654	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	14021 2393229	53230 4518350	357696	767380	2135605	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	16095 2483401	58451 4818870	406852	813279	2336946	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7999 1331814	35524 2489982	218457	431889	1155503	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22014.D
Lab Smp Id: IC-1531396
Inj Date : 22-MAY-2013 16:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 14 Calibration Sample, Level: 1
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/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2349852	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1606435	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	3155669	40.0000	
$	14 o-Terphenyl	230	6.362	6.362	(1.040)	7999	0.20000	0.1627
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3786414	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3940046	40.0000	
	2 Naphthalene	128	4.068	4.068	(1.003)	10788	0.20000	-0.0958(aQ)
	3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	7334	0.20000	0.1000
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	8739	0.20000	0.3297
	5 Acenaphthylene	152	5.057	5.057	(0.983)	10091	0.20000	0.2511
	7 Acenaphthene	154	5.168	5.168	(1.005)	5968	0.20000	0.4480(Q)
	9 Fluorene	166	5.492	5.492	(1.067)	7955	0.20000	0.7701
	11 Phenanthrene	178	6.127	6.127	(1.002)	22296	0.20000	0.2391
	12 Anthracene	178	6.168	6.168	(1.009)	12816	0.20000	0.6465
	13 Carbazole	167	6.268	6.268	(1.025)	8868	0.20000	0.1236
	15 Fluoranthene	202	6.980	6.980	(1.141)	16551	0.20000	0.7298
	16 Pyrene	202	7.151	7.151	(0.886)	20607	0.20000	0.2015
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	26214	0.20000	0.4841
	19 Chrysene	228	8.098	8.098	(1.003)	17274	0.20000	0.1643
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	17929	0.20000	0.1852
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	19122	0.20000	0.1768
	22 Benzo(a)pyrene	252	9.350	9.350	(0.993)	10479	0.20000	0.9543
	24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	11215	0.20000	1.2876(M)
	25 Dibenzo(a,h)anthracene	278	10.821	10.821	(1.149)	14021	0.20000	0.1667(M)
	26 Benzo(g,h,i)perylene	276	11.221	11.221	(1.191)	16095	0.20000	0.1758(M)

QC Flag Legend

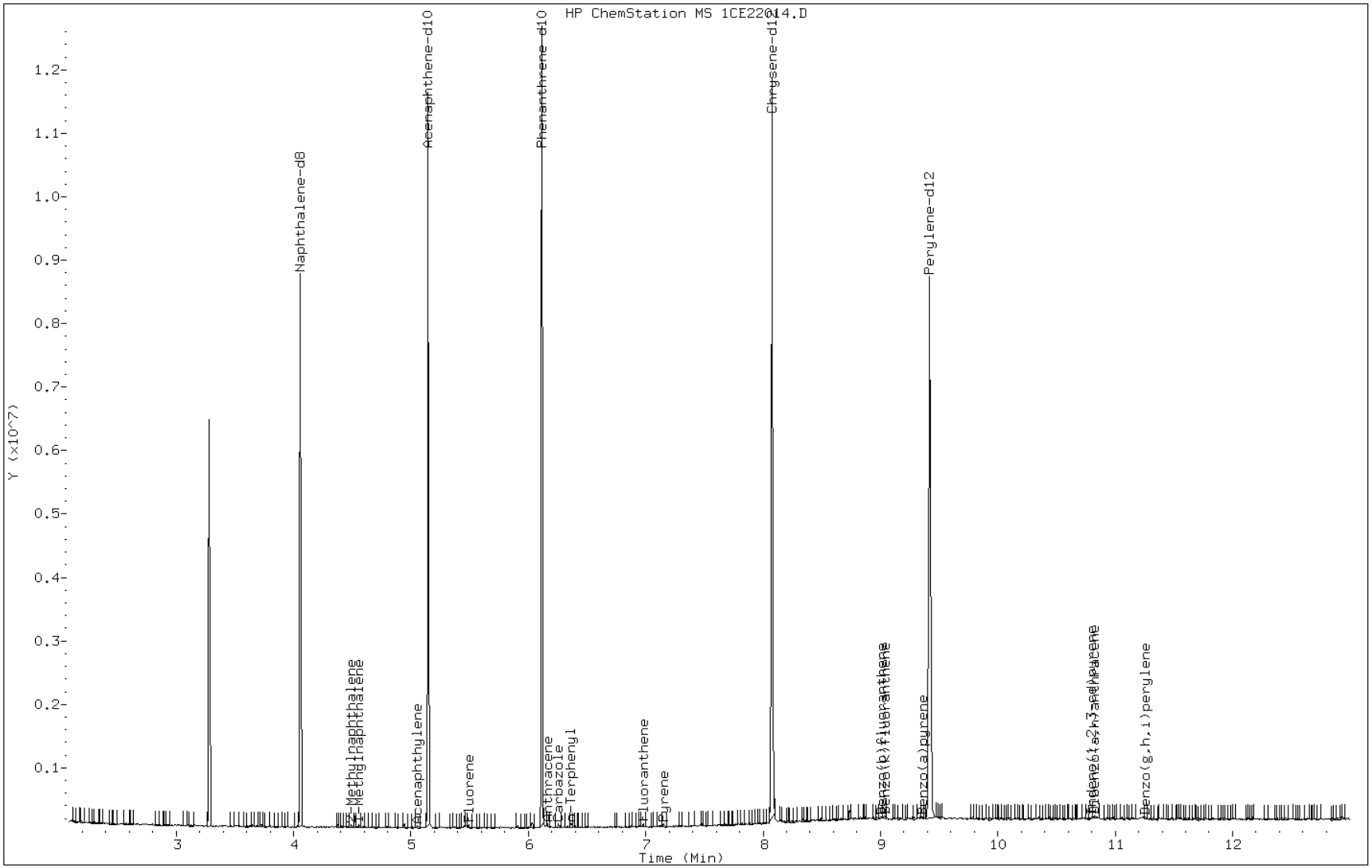
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22014.D

Date: 22-MAY-2013 16:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

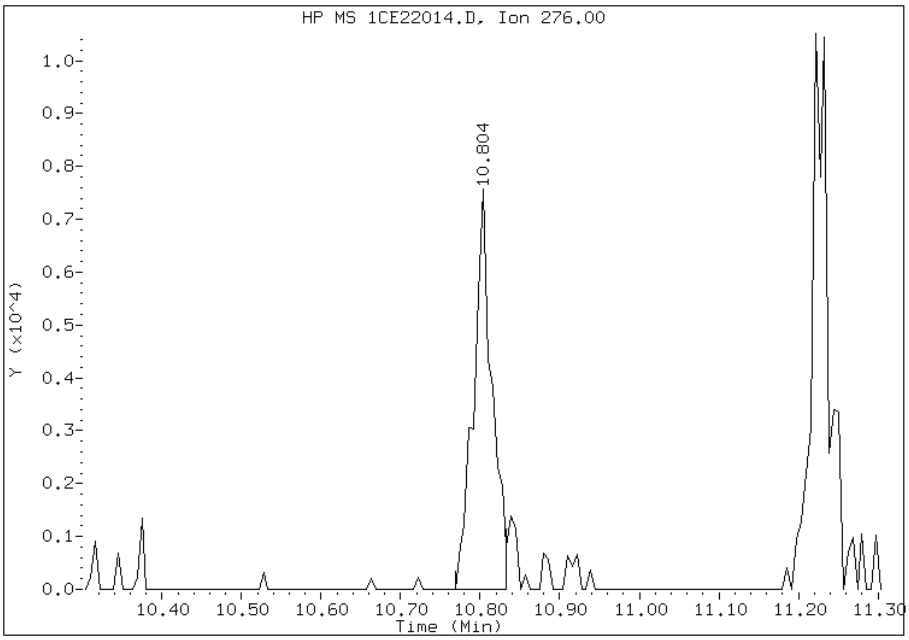
Processing Integration Results

RT: 10.80

Response: 12188

Amount: 1

Conc: 1



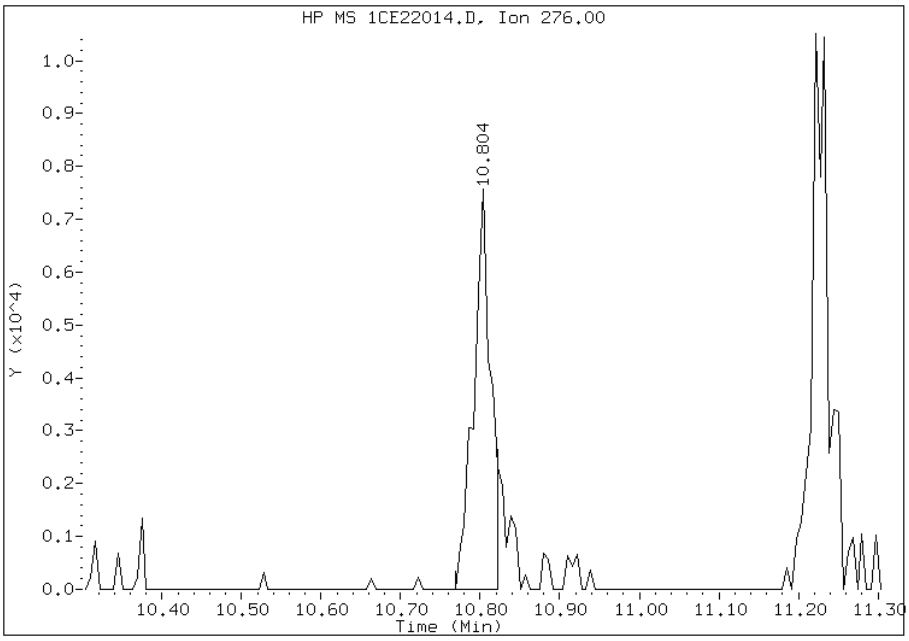
Manual Integration Results

RT: 10.80

Response: 11215

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

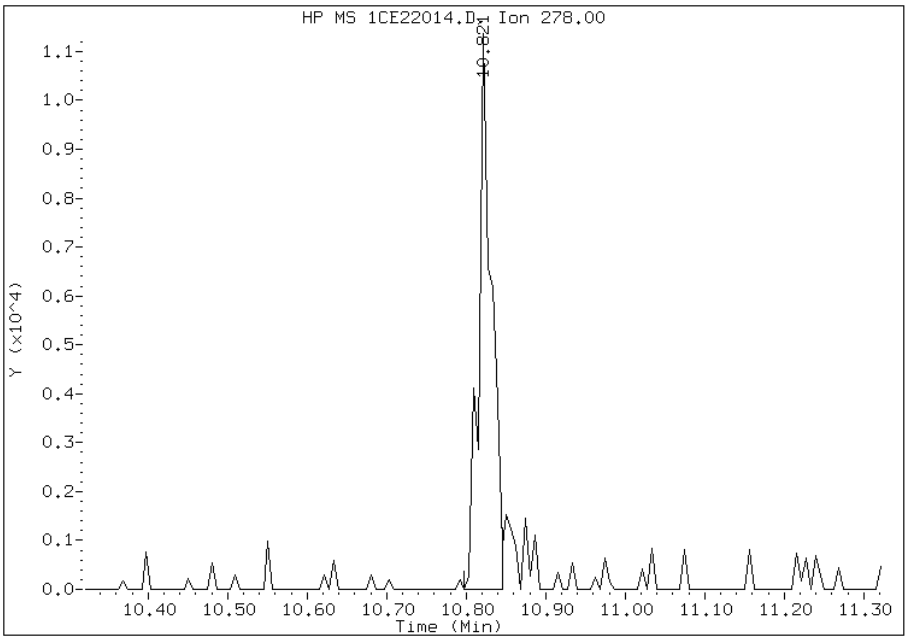
Processing Integration Results

RT: 10.82

Response: 12738

Amount: 0

Conc: 0



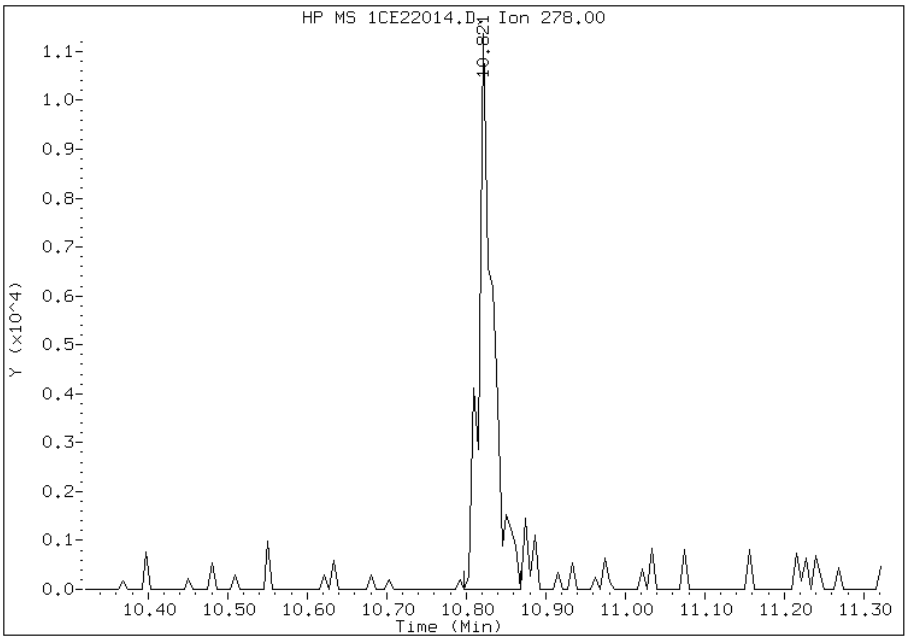
Manual Integration Results

RT: 10.82

Response: 14021

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

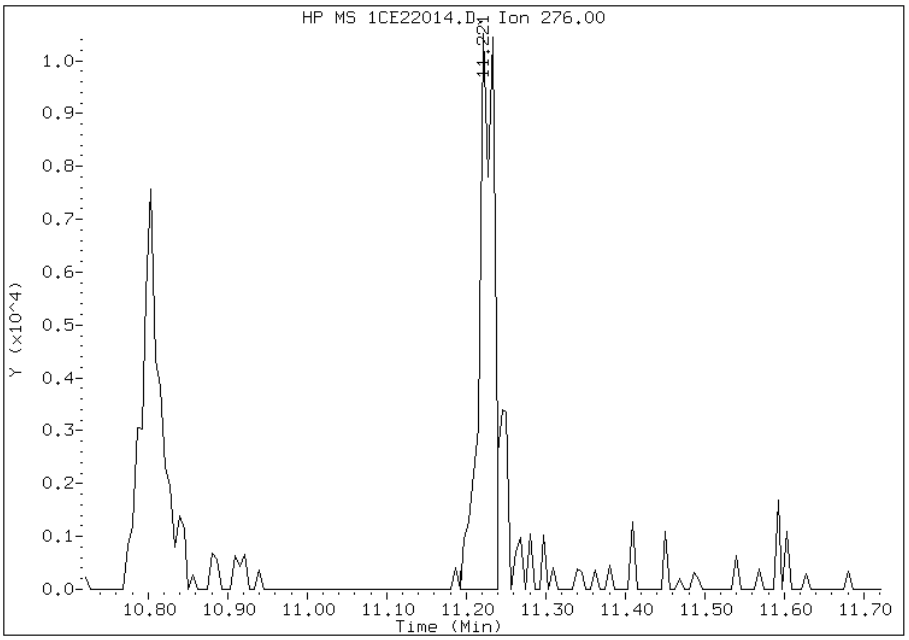
Processing Integration Results

RT: 11.22

Response: 13709

Amount: 0

Conc: 0



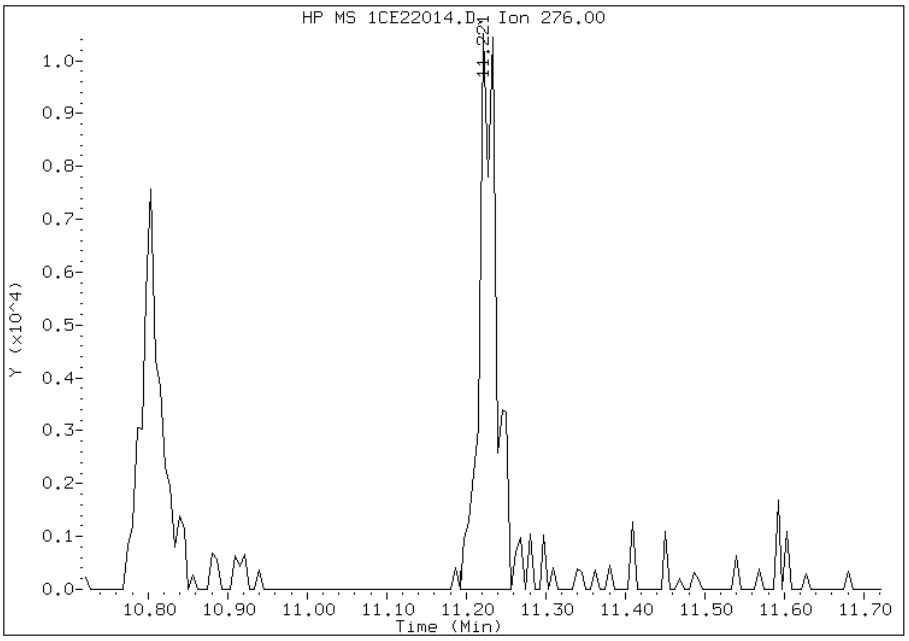
Manual Integration Results

RT: 11.22

Response: 16095

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:49
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22015.D
Lab Smp Id: IC-1531398
Inj Date : 22-MAY-2013 16:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:16 Cal File: 1CE22014.D
Als bottle: 15 Calibration Sample, Level: 2
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/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	1832664	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1235302	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2326462	40.0000	
$	14 o-Terphenyl	230	6.363	6.363	(1.040)	35524	1.00000	0.9802
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	2810637	40.0000	
*	23 Perylene-d12	264	9.415	9.415	(1.000)	2976078	40.0000	
	2 Naphthalene	128	4.069	4.069	(1.003)	43167	1.00000	0.7579(Q)
	3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	26053	1.00000	0.8408
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	22793	1.00000	0.9083(Q)
	5 Acenaphthylene	152	5.057	5.057	(0.983)	43693	1.00000	0.9876
	7 Acenaphthene	154	5.163	5.163	(1.003)	26483	1.00000	1.1282(Q)
	9 Fluorene	166	5.492	5.492	(1.067)	33899	1.00000	1.4179
	11 Phenanthrene	178	6.127	6.127	(1.002)	62422	1.00000	0.9081
	12 Anthracene	178	6.163	6.163	(1.008)	64974	1.00000	1.4346
	13 Carbazole	167	6.268	6.268	(1.025)	47959	1.00000	0.9067
	15 Fluoranthene	202	6.980	6.980	(1.141)	63229	1.00000	1.3820
	16 Pyrene	202	7.151	7.151	(0.886)	64768	1.00000	0.8533
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	70230	1.00000	1.1468
	19 Chrysene	228	8.098	8.098	(1.003)	81010	1.00000	1.0381
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.957)	62459	1.00000	0.8541
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.960)	72150	1.00000	0.8834
	22 Benzo(a)pyrene	252	9.351	9.351	(0.993)	55523	1.00000	1.5314
	24 Indeno(1,2,3-cd)pyrene	276	10.798	10.798	(1.147)	54750	1.00000	1.8337(M)
	25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.150)	53230	1.00000	0.8379(M)
	26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	58451	1.00000	0.8454

QC Flag Legend

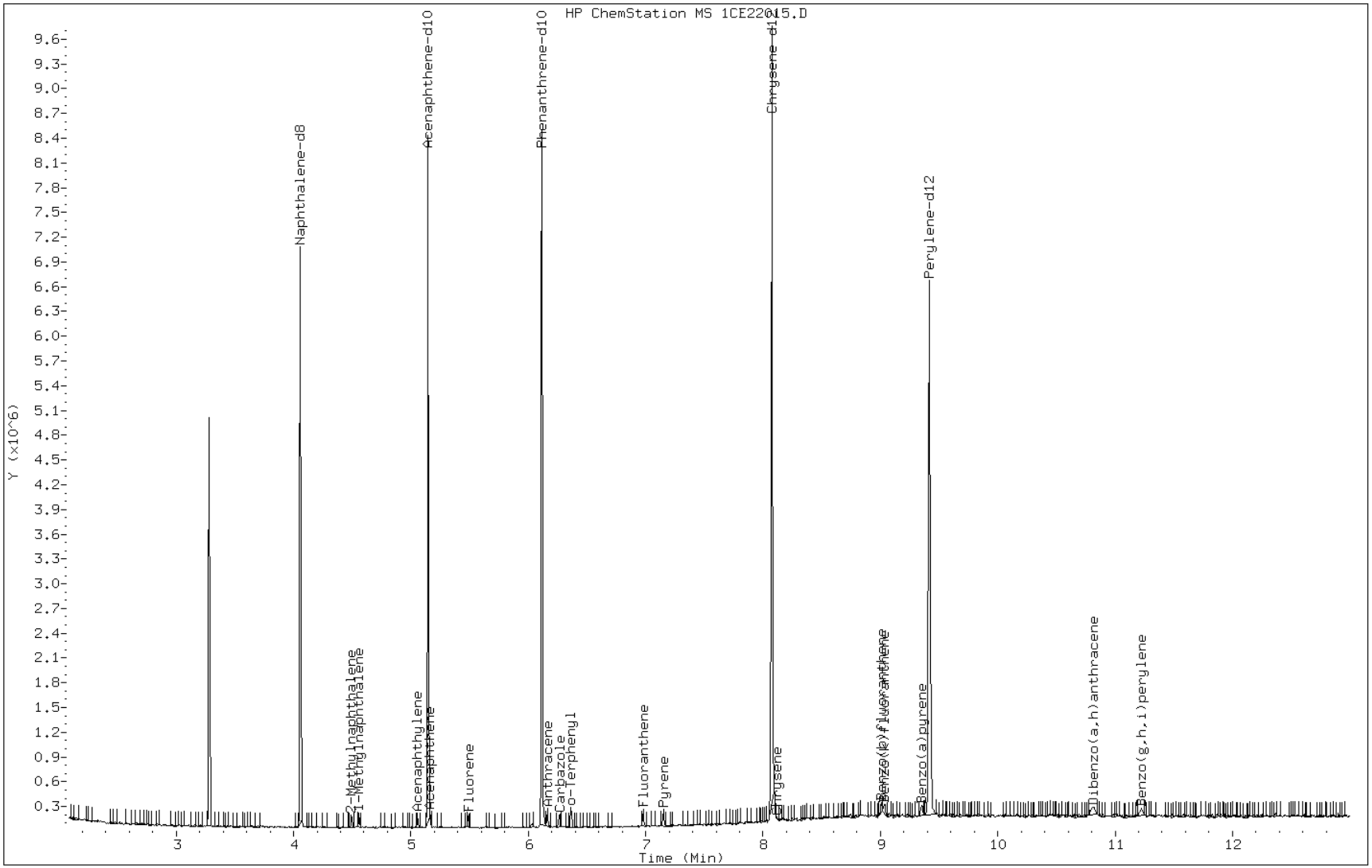
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22015.D

Date: 22-MAY-2013 16:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1CE22015.D
Inj. Date and Time: 22-MAY-2013 16:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

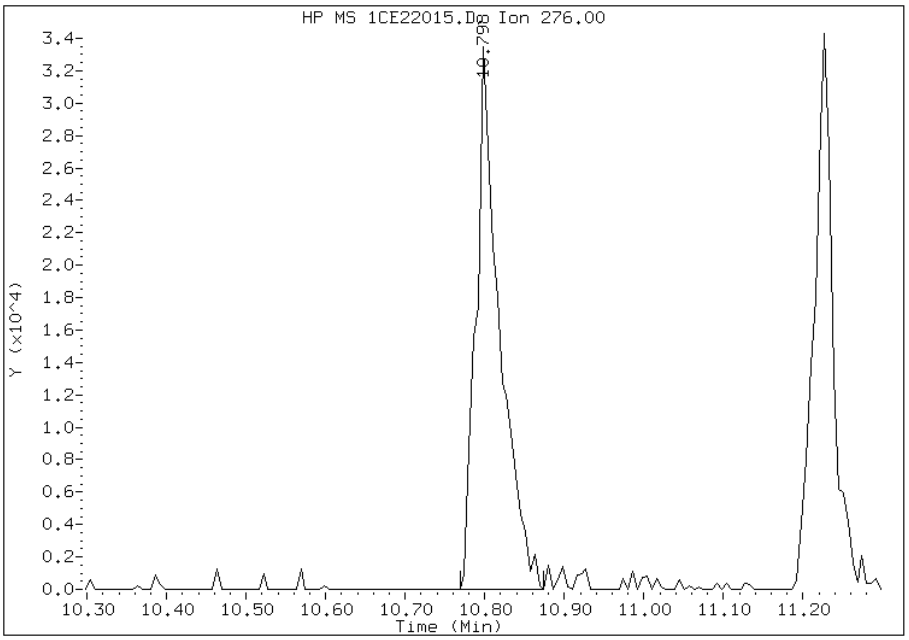
Processing Integration Results

RT: 10.80

Response: 69013

Amount: 1

Conc: 1



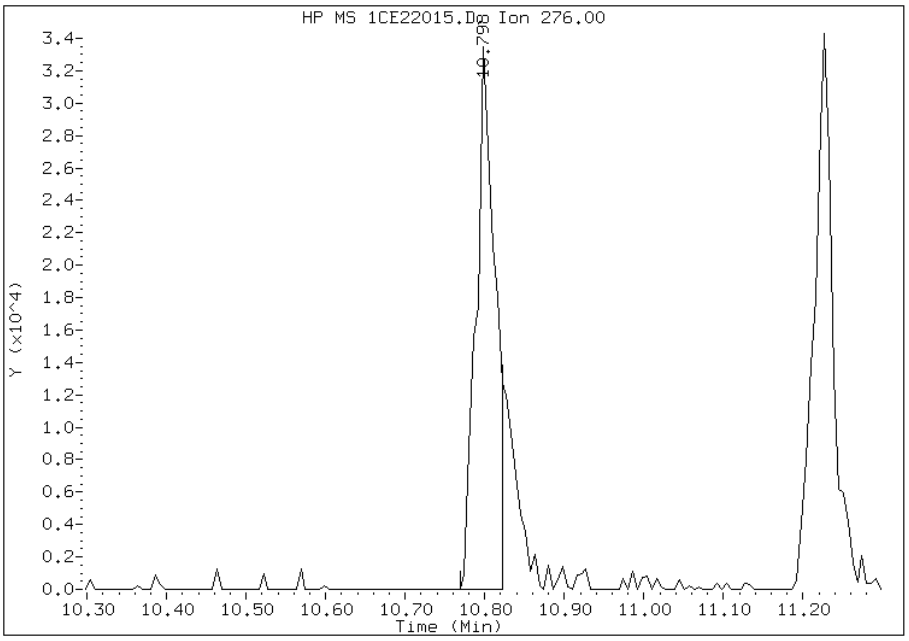
Manual Integration Results

RT: 10.80

Response: 54750

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CE22015.D
Inj. Date and Time: 22-MAY-2013 16:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

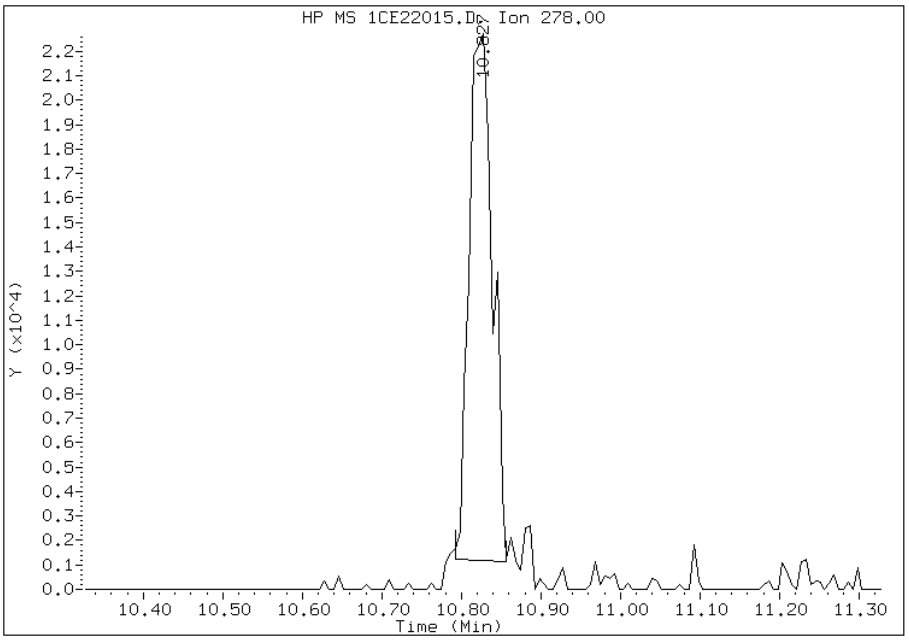
Processing Integration Results

RT: 10.83

Response: 43916

Amount: 1

Conc: 1



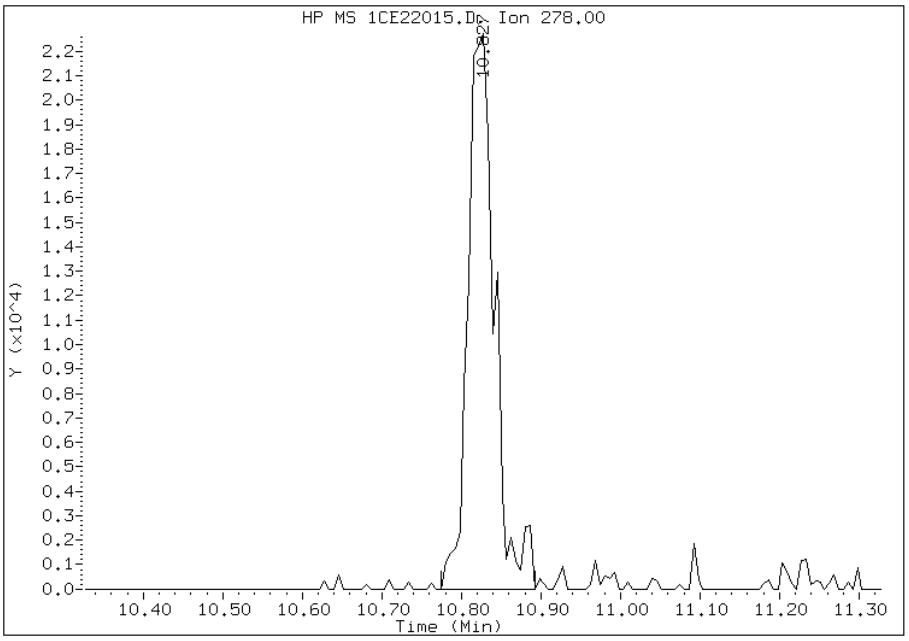
Manual Integration Results

RT: 10.83

Response: 53230

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:05
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22016.D
Lab Smp Id: IC-1531399
Inj Date : 22-MAY-2013 16:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:34 Cal File: 1CE22015.D
Als bottle: 16 Calibration Sample, Level: 3
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/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2081666	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1422317	40.0000	
*	10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2675415	40.0000	
$	14 o-Terphenyl	230	6.363	6.363	(1.040)	218457	5.00000	5.2417
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3306699	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3472629	40.0000	
	2 Naphthalene	128	4.069	4.069	(1.003)	277572	5.00000	5.6353
	3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	161984	5.00000	5.0474
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	155163	5.00000	5.0081
	5 Acenaphthylene	152	5.057	5.057	(0.983)	272410	5.00000	4.9174
	7 Acenaphthene	154	5.163	5.163	(1.003)	195498	5.00000	5.5806
	9 Fluorene	166	5.492	5.492	(1.067)	219224	5.00000	5.0675
	11 Phenanthrene	178	6.127	6.127	(1.002)	404697	5.00000	5.1199
	12 Anthracene	178	6.163	6.163	(1.008)	373497	5.00000	5.1223
	13 Carbazole	167	6.268	6.268	(1.025)	324904	5.00000	5.3417
	15 Fluoranthene	202	6.980	6.980	(1.141)	406556	5.00000	5.0929
	16 Pyrene	202	7.151	7.151	(0.886)	445351	5.00000	4.9876
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	417004	5.00000	4.8476
	19 Chrysene	228	8.098	8.098	(1.003)	503367	5.00000	5.4831
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	393956	5.00000	4.6173
	21 Benzo(k)fluoranthene	252	9.033	9.033	(0.959)	486517	5.00000	5.1054
	22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	404398	5.00000	5.0594
	24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	389350	5.00000	5.1255(M)
	25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	357696	5.00000	4.8259
	26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	406852	5.00000	5.0431

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22016.D

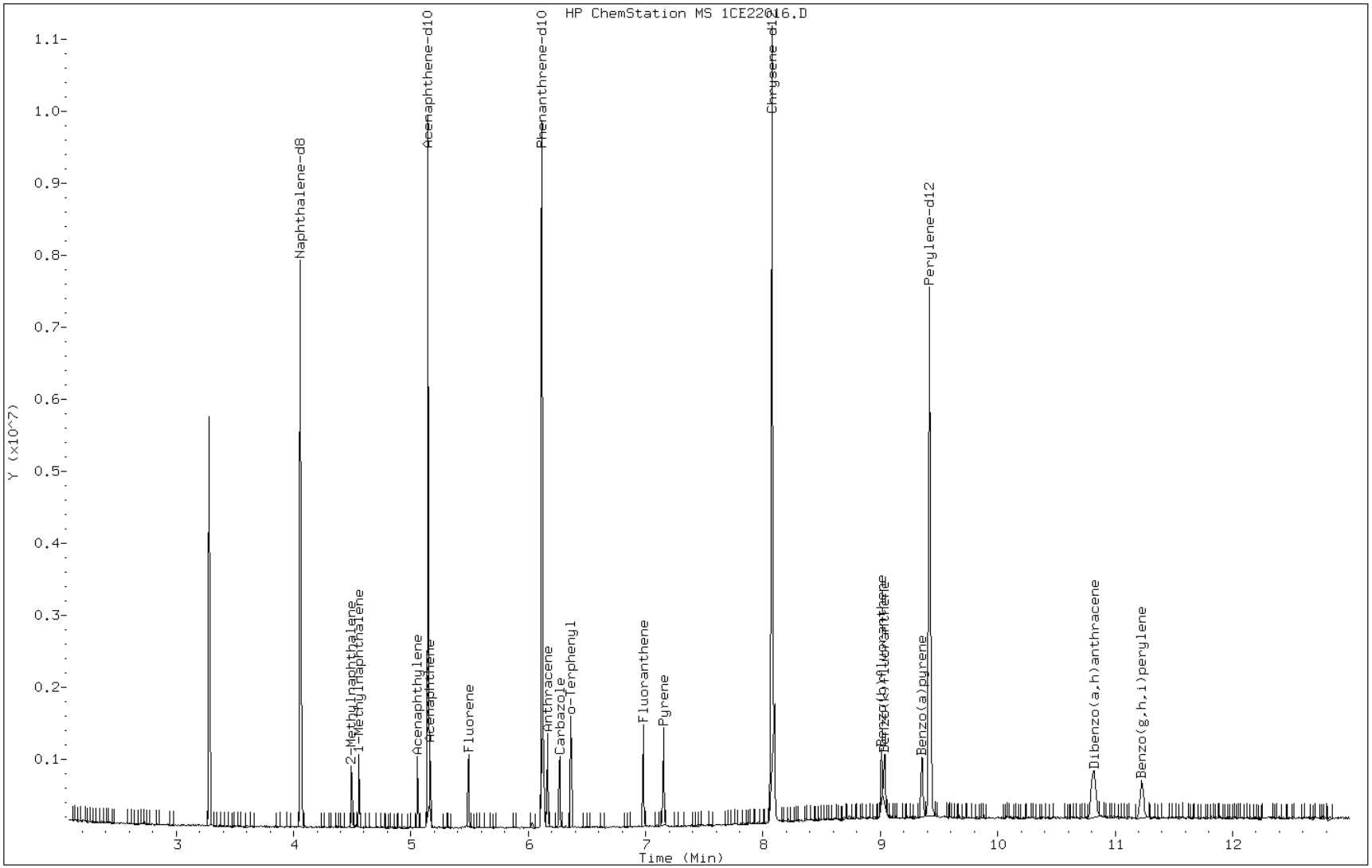
Date: 22-MAY-2013 16:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC



Manual Integration Report

Data File: 1CE22016.D
Inj. Date and Time: 22-MAY-2013 16:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

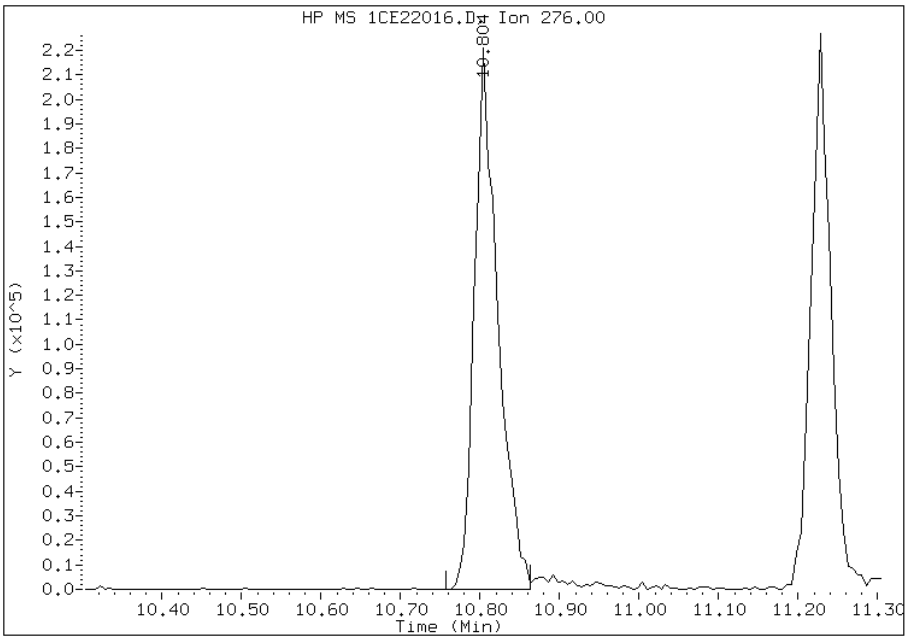
Processing Integration Results

RT: 10.80

Response: 449154

Amount: 5

Conc: 5



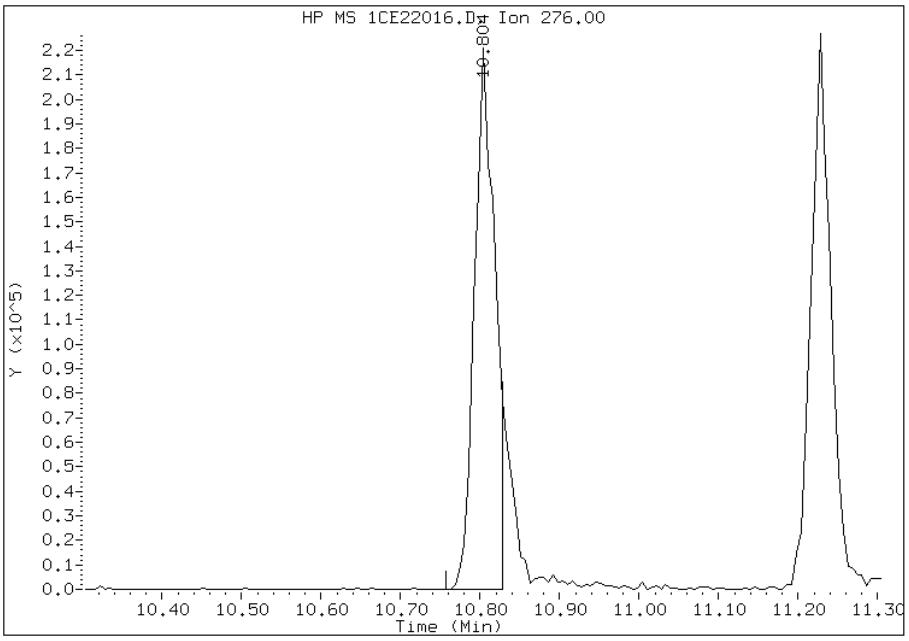
Manual Integration Results

RT: 10.80

Response: 389350

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:06
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22017.D
Lab Smp Id: IC-1531400
Inj Date : 22-MAY-2013 17:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:52 Cal File: 1CE22016.D
Als bottle: 17 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/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2145469	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1509779	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2867550	40.0000	
$	14 o-Terphenyl	230	6.362	6.362	(1.040)	431889	10.0000	9.6686
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3562042	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3464497	40.0000	
	2 Naphthalene	128	4.068	4.068	(1.003)	502511	10.0000	10.0185
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	338697	10.0000	10.2456
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	325468	10.0000	10.0505
	5 Acenaphthylene	152	5.057	5.057	(0.983)	595358	10.0000	9.9610
	7 Acenaphthene	154	5.163	5.163	(1.003)	367076	10.0000	9.6366
	9 Fluorene	166	5.492	5.492	(1.067)	473626	10.0000	9.6643
	11 Phenanthrene	178	6.127	6.127	(1.002)	781016	10.0000	9.2188
	12 Anthracene	178	6.162	6.162	(1.008)	787403	10.0000	9.5798
	13 Carbazole	167	6.268	6.268	(1.025)	687573	10.0000	10.5470
	15 Fluoranthene	202	6.980	6.980	(1.141)	855481	10.0000	9.4459
	16 Pyrene	202	7.151	7.151	(0.886)	946073	10.0000	9.8358
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	902407	10.0000	9.4824
	19 Chrysene	228	8.098	8.098	(1.003)	1006797	10.0000	10.1808
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	813573	10.0000	9.5578
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	1011311	10.0000	10.6374
	22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	844912	10.0000	9.6562
	24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	828947	10.0000	9.5913(M)
	25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	767380	10.0000	10.3775
	26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	813279	10.0000	10.1046

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22017.D

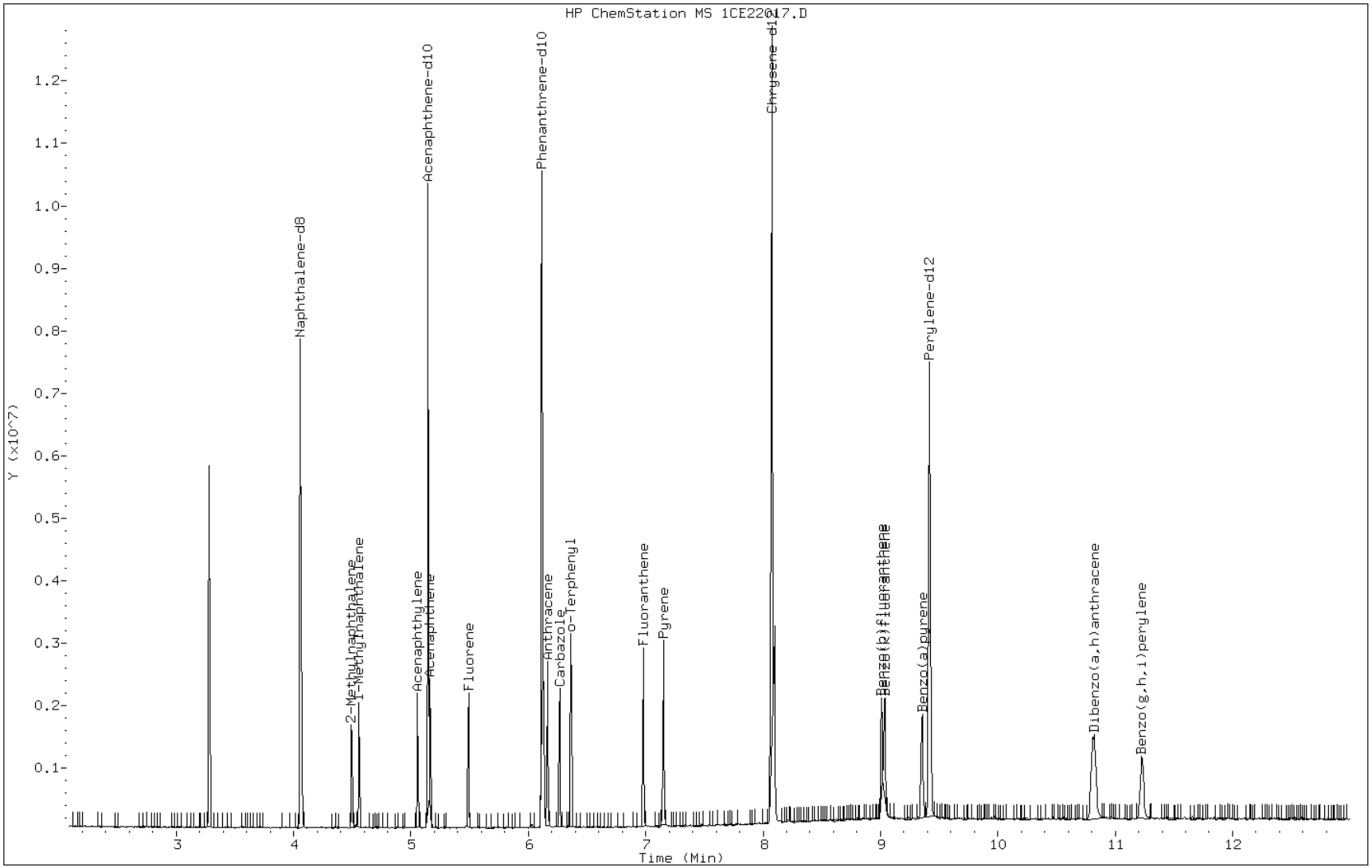
Date: 22-MAY-2013 17:10

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1CE22017.D
Inj. Date and Time: 22-MAY-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

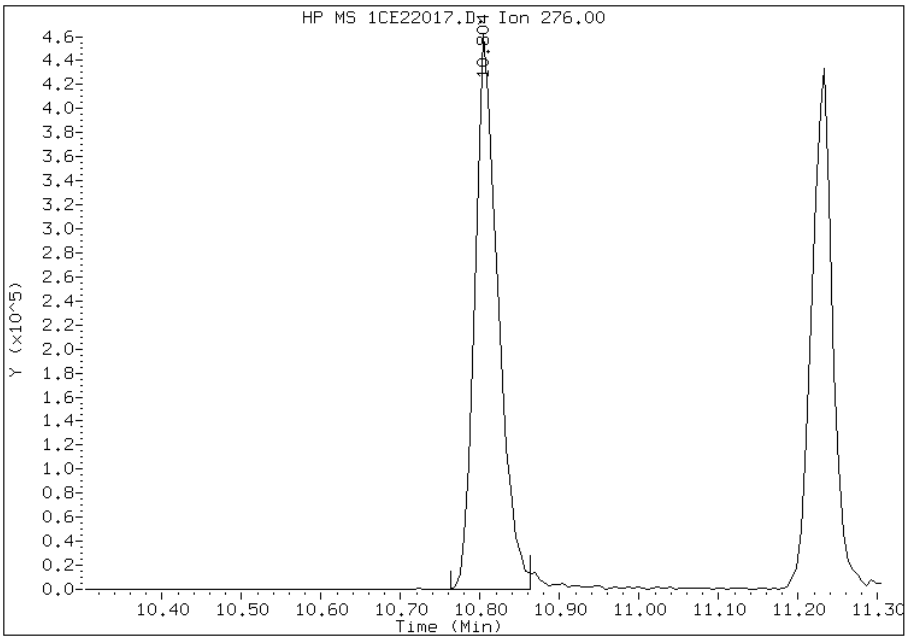
Processing Integration Results

RT: 10.80

Response: 934640

Amount: 10

Conc: 10



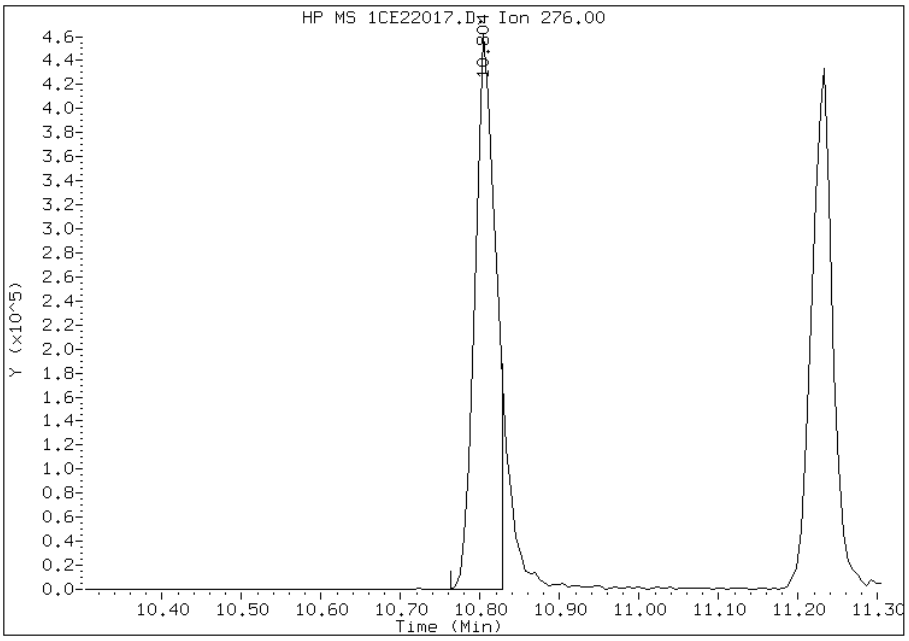
Manual Integration Results

RT: 10.80

Response: 828947

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22018.D
Lab Smp Id: ICIS-1531401
Inj Date : 22-MAY-2013 17:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:10 Cal File: 1CE22017.D
Als bottle: 18 Calibration Sample, Level: 5
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/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2696939	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1843203	40.0000	
* 10 Phenanthrene-d10	188	6.116	6.116	(1.000)	3628372	40.0000	
$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	1155503	20.0000	20.4438
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	4592658	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	4701347	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	1290268	20.0000	20.2392
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	861867	20.0000	20.4173
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	812801	20.0000	19.6680
5 Acenaphthylene	152	5.057	5.057	(0.983)	1503680	20.0000	20.2242
7 Acenaphthene	154	5.163	5.163	(1.003)	930965	20.0000	19.6899
9 Fluorene	166	5.492	5.492	(1.067)	1196881	20.0000	19.3332
11 Phenanthrene	178	6.133	6.133	(1.003)	2021508	20.0000	18.8578
12 Anthracene	178	6.163	6.163	(1.008)	2033868	20.0000	19.0224
13 Carbazole	167	6.268	6.268	(1.025)	1771988	20.0000	21.4818
15 Fluoranthene	202	6.980	6.980	(1.141)	2280567	20.0000	19.2658
16 Pyrene	202	7.151	7.151	(0.885)	2585241	20.0000	20.8460
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2496189	20.0000	19.9640
19 Chrysene	228	8.098	8.098	(1.002)	2553612	20.0000	20.0277
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	2511123	20.0000	21.7394
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2593145	20.0000	20.1000
22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2373859	20.0000	19.0736
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2270654	20.0000	18.1509(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	2135605	20.0000	21.2824
26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2336946	20.0000	21.3967

QC Flag Legend

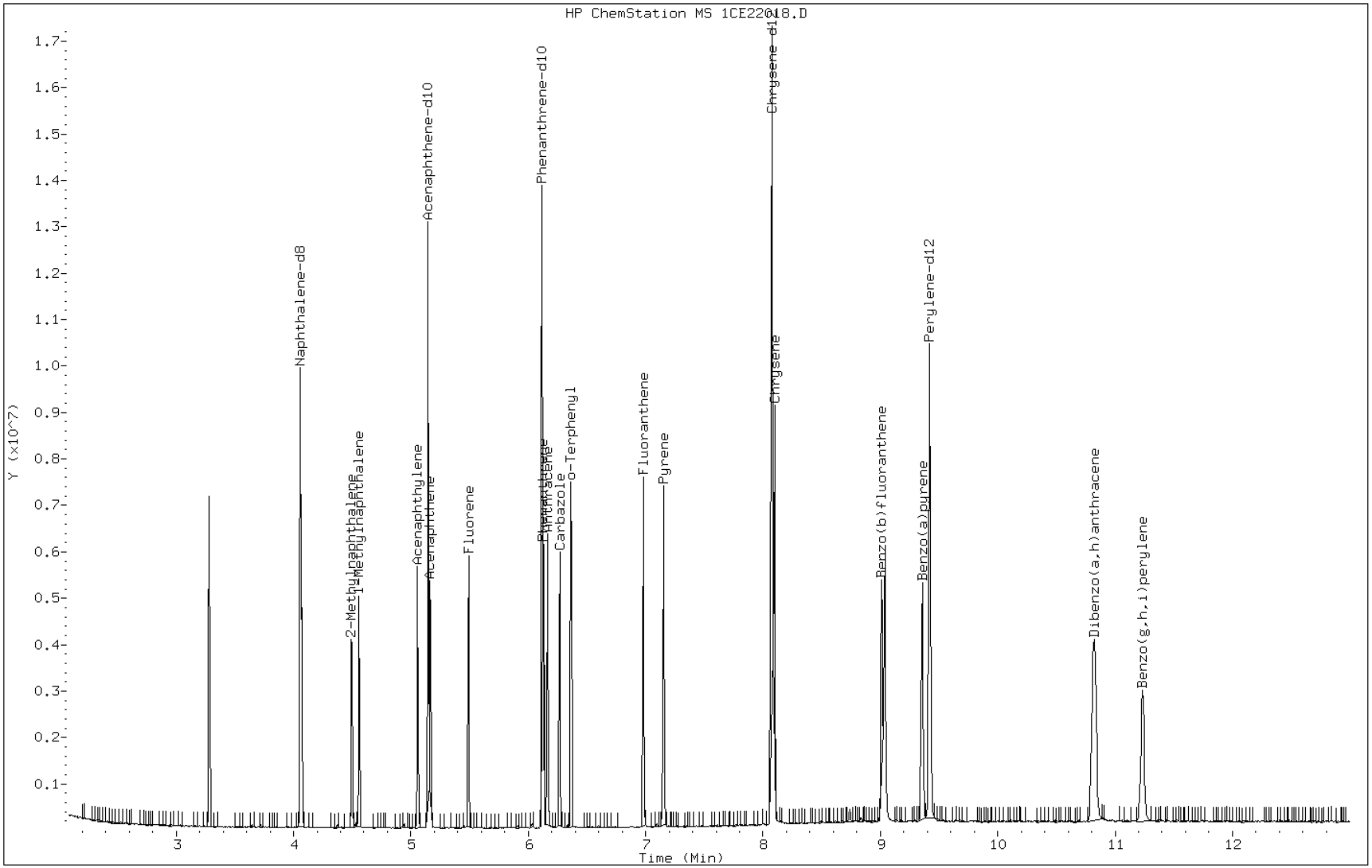
M - Compound response manually integrated.

Data File: 1CE22018.D

Date: 22-MAY-2013 17:29

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CE22018.D
Inj. Date and Time: 22-MAY-2013 17:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

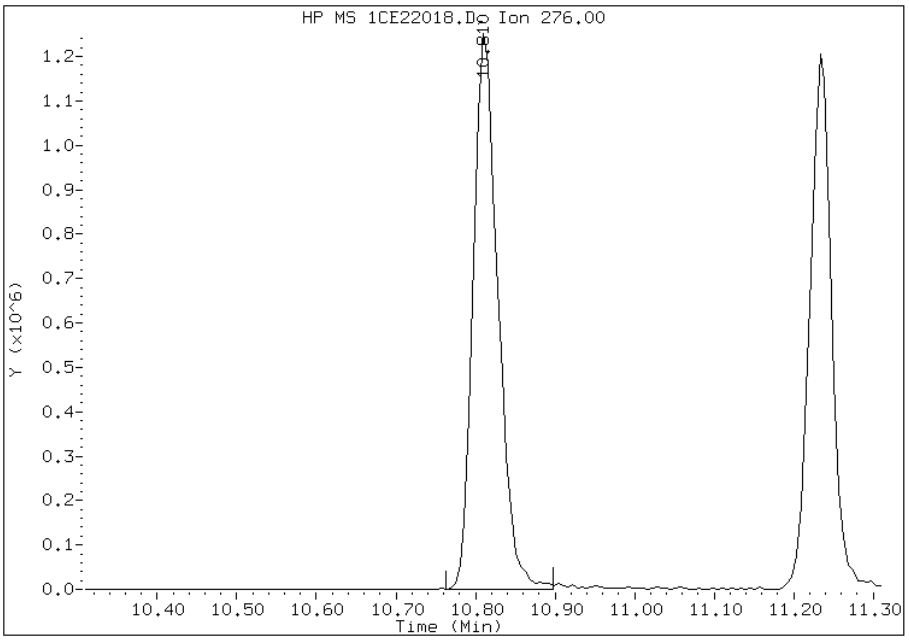
Processing Integration Results

RT: 10.81

Response: 2702405

Amount: 21

Conc: 21



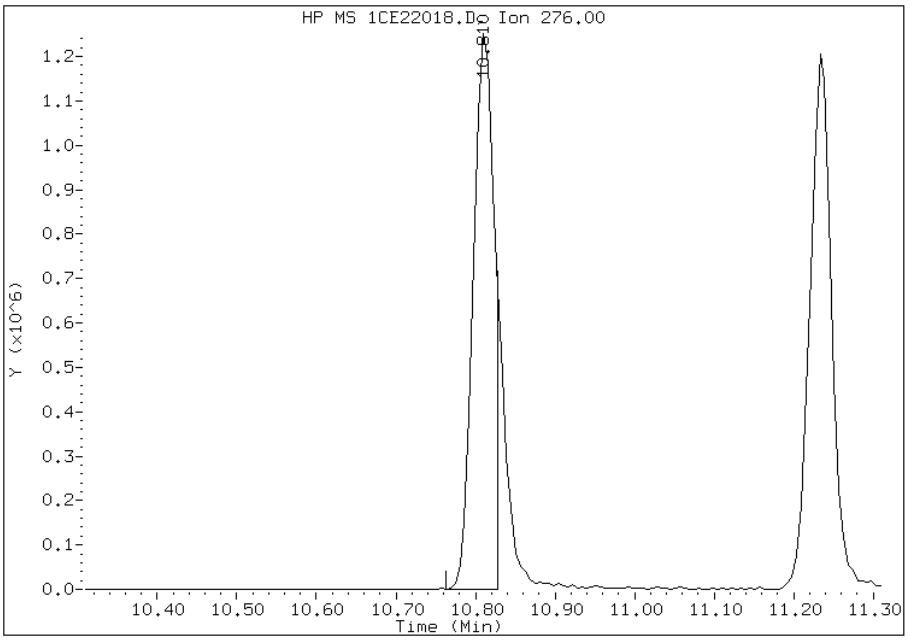
Manual Integration Results

RT: 10.81

Response: 2270654

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-May-2013 18:03
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22019.D
Lab Smp Id: IC-1531402
Inj Date : 22-MAY-2013 17:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:29 Cal File: 1CE22018.D
Als bottle: 19 Calibration Sample, Level: 6
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/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2068326	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1427326	40.0000	
*	10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2638178	40.0000	
$	14 o-Terphenyl	230	6.363	6.363	(1.040)	1331814	30.0000	32.4073
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3302140	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3377140	40.0000	
	2 Naphthalene	128	4.069	4.069	(1.003)	1475133	30.0000	29.5453
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	970702	30.0000	29.4444
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	973704	30.0000	30.2912
	5 Acenaphthylene	152	5.057	5.057	(0.983)	1744024	30.0000	29.8344
	7 Acenaphthene	154	5.163	5.163	(1.003)	1069111	30.0000	29.0526
	9 Fluorene	166	5.492	5.492	(1.067)	1415229	30.0000	29.1903
	11 Phenanthrene	178	6.133	6.133	(1.003)	2310027	30.0000	29.6374
	12 Anthracene	178	6.168	6.168	(1.009)	2351205	30.0000	29.9418
	13 Carbazole	167	6.268	6.268	(1.025)	2042937	30.0000	34.0622
	15 Fluoranthene	202	6.980	6.980	(1.141)	2594572	30.0000	29.8212
	16 Pyrene	202	7.151	7.151	(0.886)	2821005	30.0000	31.6369
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2759615	30.0000	30.3926
	19 Chrysene	228	8.098	8.098	(1.003)	2753228	30.0000	30.0322
	20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	2780406	30.0000	33.5091
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2862522	30.0000	30.8881
	22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2630366	30.0000	28.9560
	24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2670728	30.0000	28.9631(M)
	25 Dibenzo(a,h)anthracene	278	10.833	10.833	(1.150)	2393229	30.0000	33.2015
	26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2483401	30.0000	31.6533

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22019.D

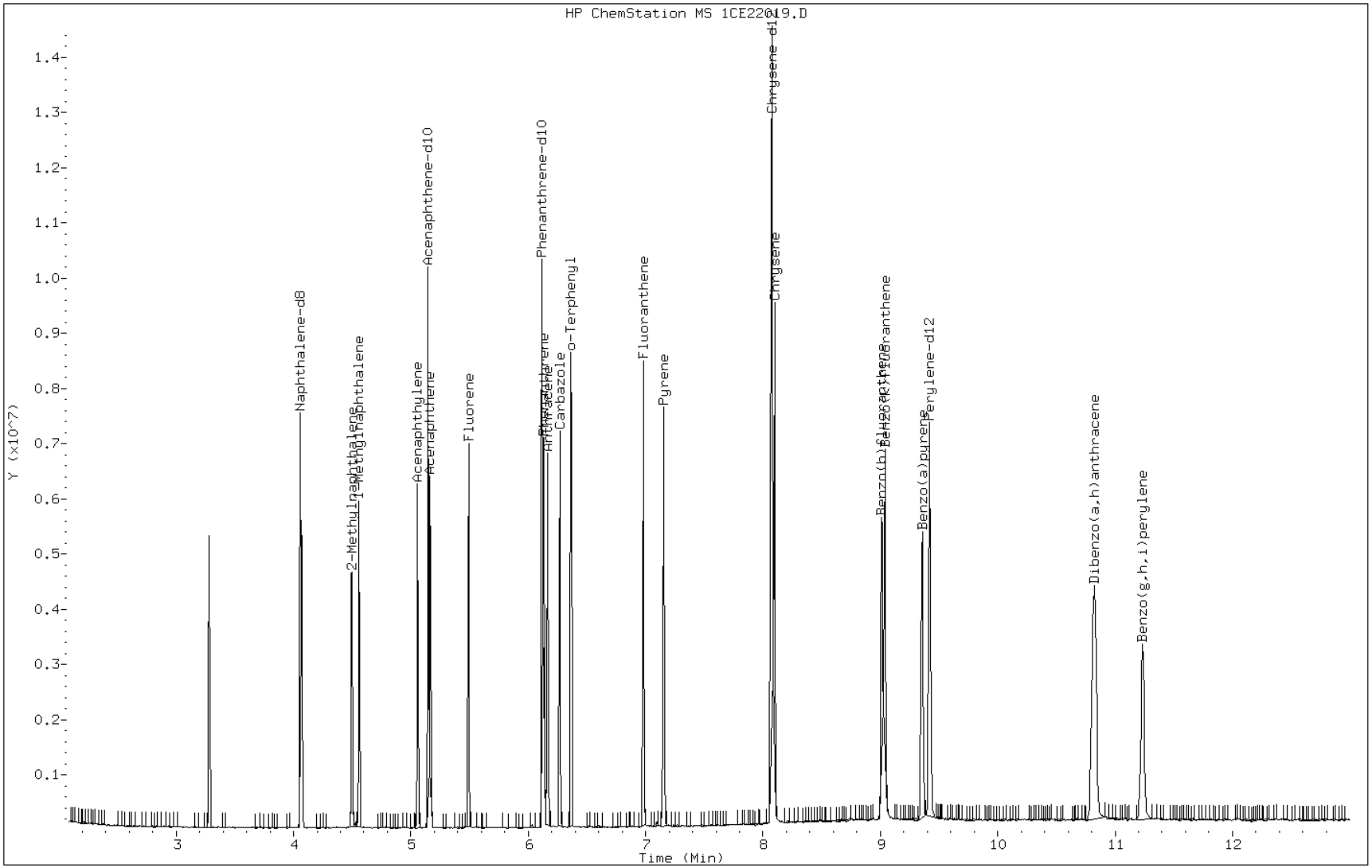
Date: 22-MAY-2013 17:47

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC



Manual Integration Report

Data File: 1CE22019.D
Inj. Date and Time: 22-MAY-2013 17:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

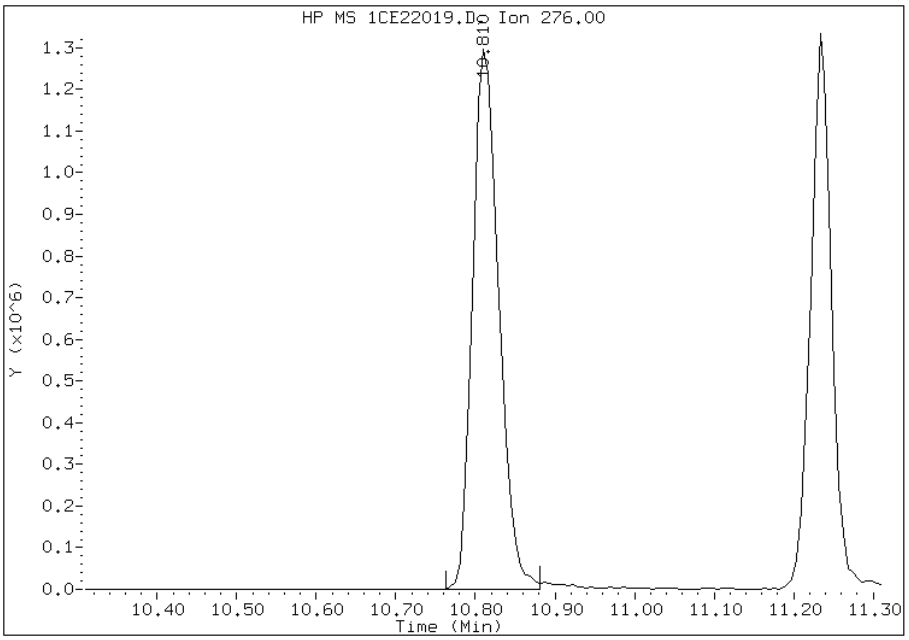
Processing Integration Results

RT: 10.81

Response: 2965644

Amount: 32

Conc: 32



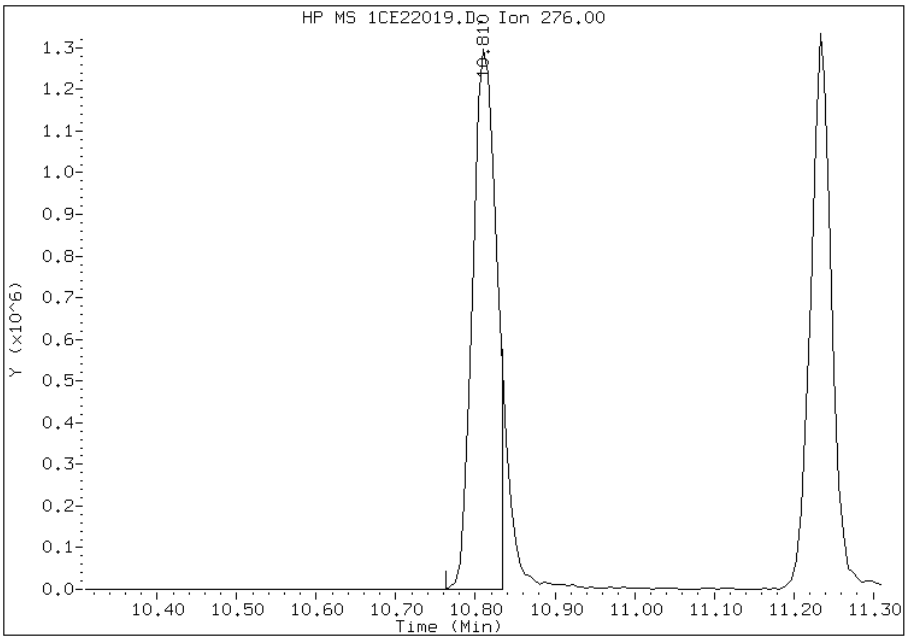
Manual Integration Results

RT: 10.81

Response: 2670728

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22020.D
Lab Smp Id: IC-1531403
Inj Date : 22-MAY-2013 18:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:47 Cal File: 1CE22019.D
Als bottle: 20 Calibration Sample, Level: 7
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/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2200854	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1541984	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2936983	40.0000	
$ 14 o-Terphenyl	230	6.368	6.368	(1.041)	2489982	50.0000	54.4249(A)
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	3735164	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3666876	40.0000	
2 Naphthalene	128	4.068	4.068	(1.003)	2829693	50.0000	50.0994(A)
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	1846051	50.0000	50.1042(A)
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	1753070	50.0000	49.9439
5 Acenaphthylene	152	5.057	5.057	(0.983)	3262336	50.0000	50.0238(A)
7 Acenaphthene	154	5.168	5.168	(1.005)	2023281	50.0000	50.6638(A)
9 Fluorene	166	5.492	5.492	(1.067)	2683311	50.0000	50.7564(A)
11 Phenanthrene	178	6.133	6.133	(1.003)	4422781	50.0000	50.9708(A)
12 Anthracene	178	6.168	6.168	(1.009)	4441751	50.0000	50.4523(A)
13 Carbazole	167	6.268	6.268	(1.025)	3814591	50.0000	57.1306(A)
15 Fluoranthene	202	6.980	6.980	(1.141)	4926903	50.0000	50.4621(A)
16 Pyrene	202	7.157	7.157	(0.886)	5350270	50.0000	53.0459(A)
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	5197458	50.0000	49.8822
19 Chrysene	228	8.098	8.098	(1.002)	5304178	50.0000	51.1504(A)
20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	5119876	50.0000	56.8286(A)
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	5598875	50.0000	55.6412(A)
22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	5093564	50.0000	50.9688(A)
24 Indeno(1,2,3-cd)pyrene	276	10.815	10.815	(1.148)	5226444	50.0000	51.2476(AM)
25 Dibenzo(a,h)anthracene	278	10.839	10.839	(1.150)	4518350	50.0000	57.7307(A)
26 Benzo(g,h,i)perylene	276	11.244	11.244	(1.194)	4818870	50.0000	56.5679(A)

QC Flag Legend

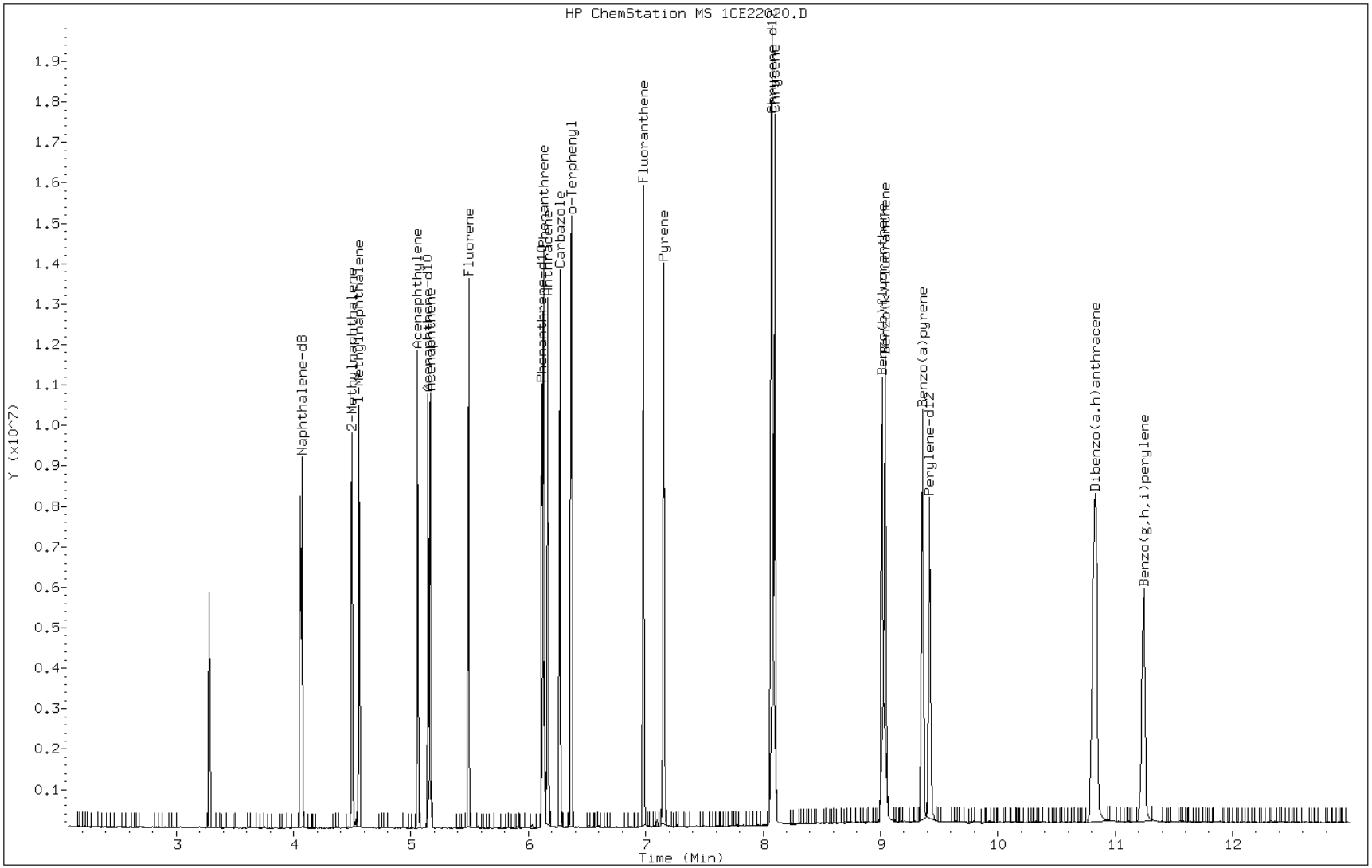
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CE22020.D

Date: 22-MAY-2013 18:05

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1CE22020.D
Inj. Date and Time: 22-MAY-2013 18:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

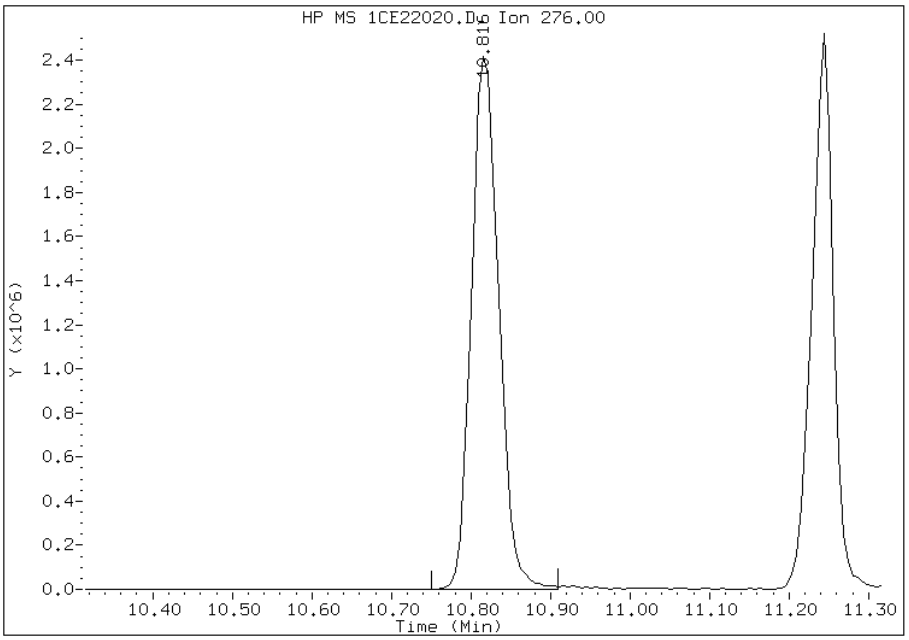
Processing Integration Results

RT: 10.82

Response: 5750303

Amount: 52

Conc: 52



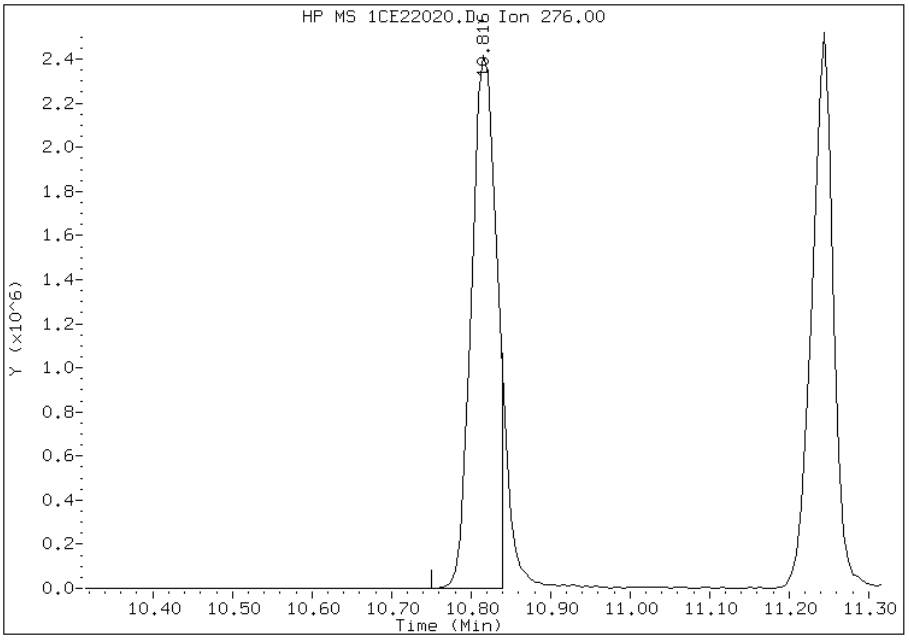
Manual Integration Results

RT: 10.82

Response: 5226444

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:09
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-1 Analy Batch No.: 137830

SDG No.: 68090855-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.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	1.0062 0.9726	0.9995 0.9719	0.9558	1.0008	0.9980	Ave		0.9864			0.0000	2.0		15.0			
2-Methylnaphthalene	0.5749 0.6384	0.6206 0.6316	0.6261	0.6587	0.6461	Ave		0.6281			0.0000	4.2		15.0			
1-Methylnaphthalene	0.6241 0.6428	0.6597 0.6342	0.6383	0.6735	0.6535	Ave		0.6466			0.0000	2.6		15.0			
1,1'-Biphenyl	1.2558 1.3810	1.3151 1.3708	1.3286	1.4157	1.3930	Ave		1.3514				4.1					
Acenaphthylene	1.3107 1.7873	1.5063 1.7667	1.6358	1.8042	1.7982	Ave		1.6585			0.0000	11.4		15.0			
Acenaphthene	1.0464 1.0507	1.0487 1.0375	1.0260	1.0949	1.0603	Ave		1.0521			0.0000	2.1		15.0			
Dibenzofuran	1.3261 1.4810	1.4516 1.4633	1.4312	1.5056	1.4959	Ave		1.4507				4.2					
Fluorene	1.0233 1.2432	1.1470 1.2316	1.1838	1.2557	1.2481	Ave		1.1904			0.0000	7.0		15.0			
Phenanthrene	1.0916 1.0740	1.0736 1.0745	1.0516	1.1171	1.1008	Ave		1.0833			0.0000	2.0		15.0			
Anthracene	0.9060 1.1005	0.9896 1.0935	1.0526	1.1103	1.1055	Ave		1.0511			0.0000	7.3		15.0			
Fluoranthene	0.9193 1.1786	1.0180 1.1788	1.1083	1.1809	1.1741	Ave		1.1083			0.0000	9.3		15.0			
Pyrene	1.0361 1.2269	1.1042 1.2137	1.1521	1.2414	1.2233	Ave		1.1711			0.0000	6.6		15.0			
Benzo[a]anthracene	1.5197 1.1551	1.1050 1.1845	1.0486	1.1333	1.1636	Ave		1.1871			0.0000	12.9		15.0			
Chrysene	1.2142 1.0365	1.0662 1.0434	1.0077	1.0774	1.0375	Ave		1.0690			0.0000	6.3		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.: 680-90855-1 Analy Batch No.: 137830

SDG No.: 68090855-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

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[b]fluoranthene	0.7633 1.0884	0.8861 1.1593	0.9510	1.0666	1.0998	Ave		1.0021			0.0000	14.1		15.0			
Benzo[k]fluoranthene	0.8692 1.1506	0.9589 1.1556	1.0109	1.0979	1.1026	Ave		1.0494			0.0000	10.2		15.0			
Benzo[a]pyrene	0.5413 1.0390	0.7183 1.0772	0.8802	0.9909	1.0194	Lin2	0.0025	0.9921							0.9902		
Indeno[1,2,3-cd]pyrene	0.5529 1.0098	0.6923 1.1024	0.8483	0.9795	0.9683	None	0.0037	1.0397							0.9951		
Dibenz(a,h)anthracene	0.6360 0.9847	0.7785 1.0376	0.8706	0.9418	0.9751	Lin2	0.0018	0.9560							0.9948		
Benzo[g,h,i]perylene	0.7013 0.9827	0.8003 1.0289	0.8929	0.9688	0.9829	Ave		0.9083			0.0000	13.0		15.0			
o-Terphenyl	0.5334 0.6060	0.5610 0.6203	0.5678	0.6036	0.6100	Ave		0.5860			0.0000	5.5		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.: 680-90855-1 Analy Batch No.: 137830

SDG No.: 68090855-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.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	14052 2454439	67892 3854620	342402	771801	1601823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8029 1611089	42157 2505140	224268	507950	1036995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8716 1622169	44810 2515238	228660	519415	1048787	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	ANT	Ave	10365 1954075	52741 3029358	276490	620318	1271034	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10818 2528965	60413 3904072	340416	790555	1640830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8637 1486714	42059 2292684	213507	479776	967502	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	10945 2095529	58216 3233580	297831	659738	1364999	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8446 1759028	46002 2721626	246360	550212	1138861	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14705 2572622	71492 3974751	366377	818249	1690403	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12204 2636003	65898 4044900	366727	813240	1697570	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12384 2822979	67793 4360425	386131	864953	1802958	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13459 2878307	72384 4398475	400281	887682	1840728	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19741 2709801	72436 4292530	364317	810407	1750909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15772 2431700	69888 3781128	350103	770411	1561209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	10089 2543308	60091 4185749	340701	782118	1676574	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.: 680-90855-1 Analy Batch No.: 137830

SDG No.: 68090855-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

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[k]fluoranthene	PRY	Ave	11489 2688538	65030 4172175	362152	805050	1680826	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	7155 2427727	48714 3889042	315324	726611	1554051	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	None	7308 2359651	46950 3980252	303899	718264	1476159	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin2	8406 2300940	52791 3746128	311908	690573	1486524	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	9269 2296193	54271 3714851	319890	710395	1498391	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7185 1451630	37357 2294445	197816	442134	936684	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23003.D
Lab Smp Id: IC1
Inj Date : 23-MAY-2013 13:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 3 Calibration Sample, Level: 1
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	6.283	6.283	(1.000)	2793016	40.0000	
*	7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1650729	40.0000	
*	11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2694117	40.0000	
$	15 o-Terphenyl	230	9.520	9.520	(1.034)	7185	0.20000	0.18
*	19 Chrysene-d12	240	11.571	11.571	(1.000)	2598008	40.0000	
*	24 Perylene-d12	264	13.480	13.480	(1.000)	2643475	40.0000	
	2 Naphthalene	128	6.307	6.307	(1.004)	14052	0.20000	0.20
	3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	8029	0.20000	0.18
	4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	8716	0.20000	0.19
	5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	10365	0.20000	0.32
	6 Acenaphthylene	152	7.822	7.822	(0.984)	10818	0.20000	0.16
	8 Acenaphthene	154	7.975	7.975	(1.003)	8637	0.20000	0.20
	9 Dibenzofuran	168	8.128	8.128	(1.022)	10945	0.20000	0.18
	10 Fluorene	166	8.416	8.416	(1.058)	8446	0.20000	0.17
	12 Phenanthrene	178	9.227	9.227	(1.002)	14705	0.20000	0.20
	13 Anthracene	178	9.268	9.268	(1.006)	12204	0.20000	0.17
	16 Fluoranthene	202	10.208	10.208	(1.108)	12384	0.20000	0.16
	17 Pyrene	202	10.396	10.396	(0.898)	13459	0.20000	0.18
	18 Benzo(a)anthracene	228	11.559	11.559	(0.999)	19741	0.20000	0.26
	20 Chrysene	228	11.594	11.594	(1.002)	15772	0.20000	0.23
	21 Benzo(b)fluoranthene	252	12.905	12.905	(0.957)	10089	0.20000	0.15
	22 Benzo(k)fluoranthene	252	12.940	12.940	(0.960)	11489	0.20000	0.16
	23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	7155	0.20000	0.21
	25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.120)	7308	0.20000	0.25(H)
	26 Dibenzo(a,h)anthracene	278	15.149	15.149	(1.124)	8406	0.20000	0.20(M)
	27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.155)	9269	0.20000	0.15(MH)

QC Flag Legend

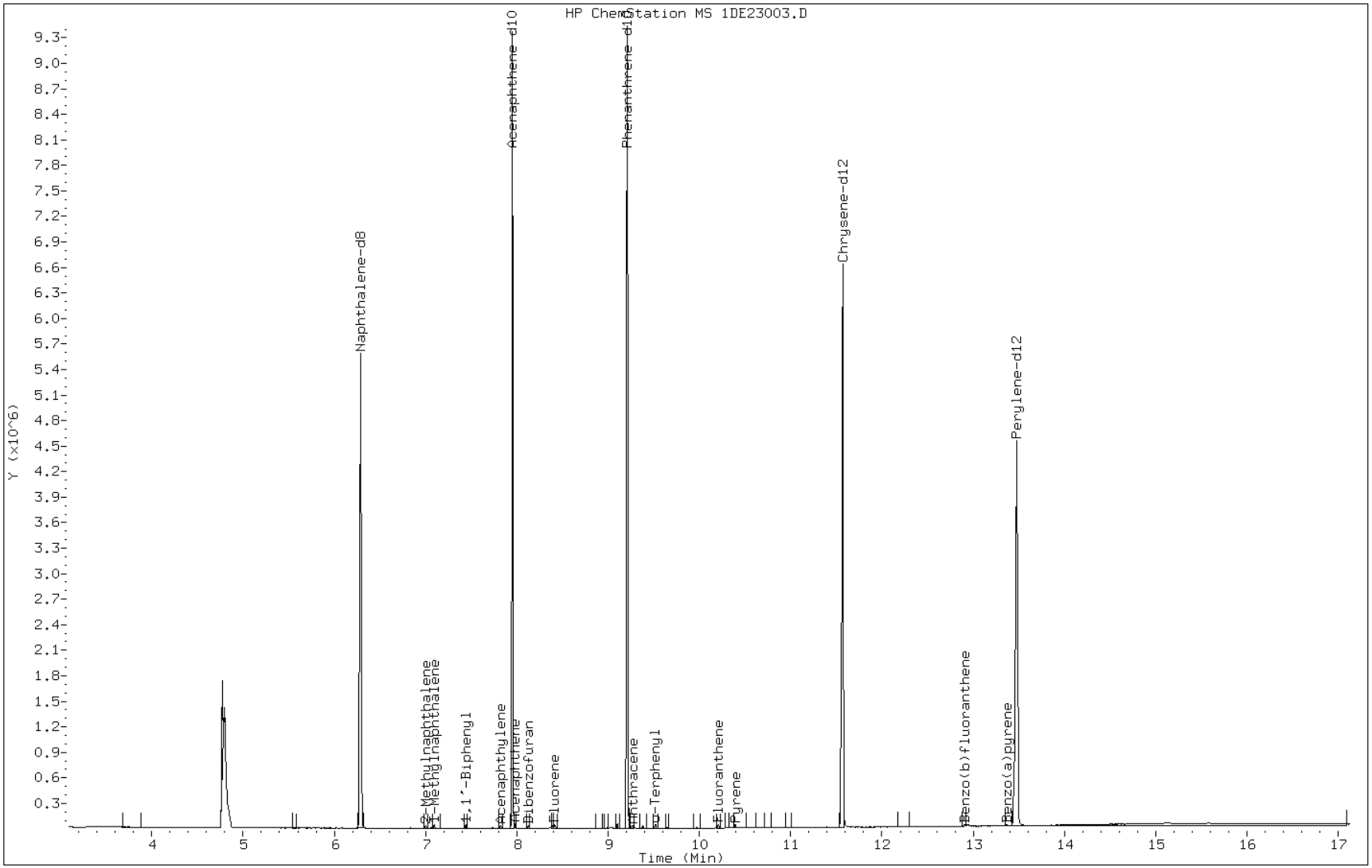
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE23003.D

Date: 23-MAY-2013 13:03

Client ID: Instrument: BSMSD.i

Sample Info: IC1 Operator: SCC



Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMSD.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/28/2013

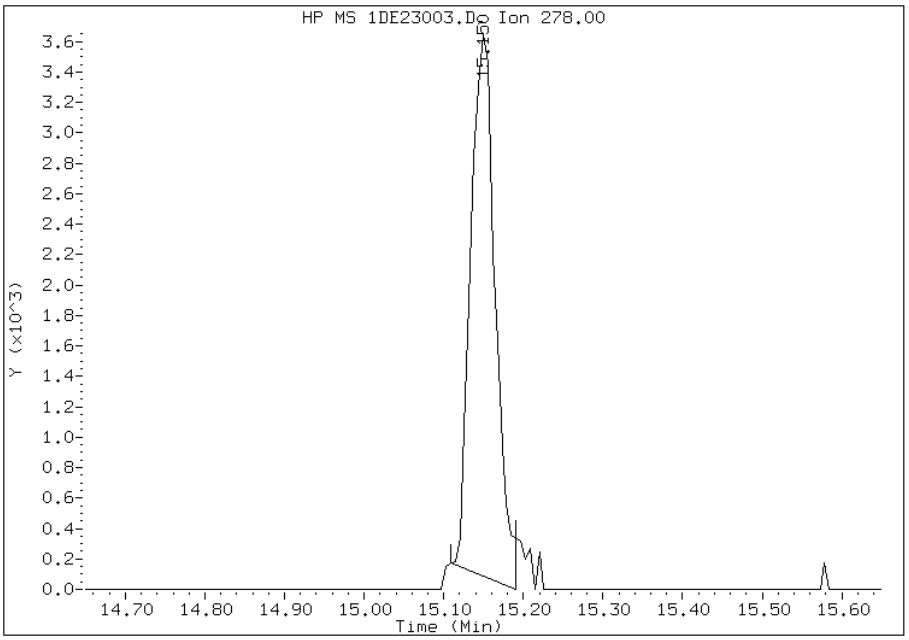
Processing Integration Results

RT: 15.15

Response: 7611

Amount: 0

Conc: 0



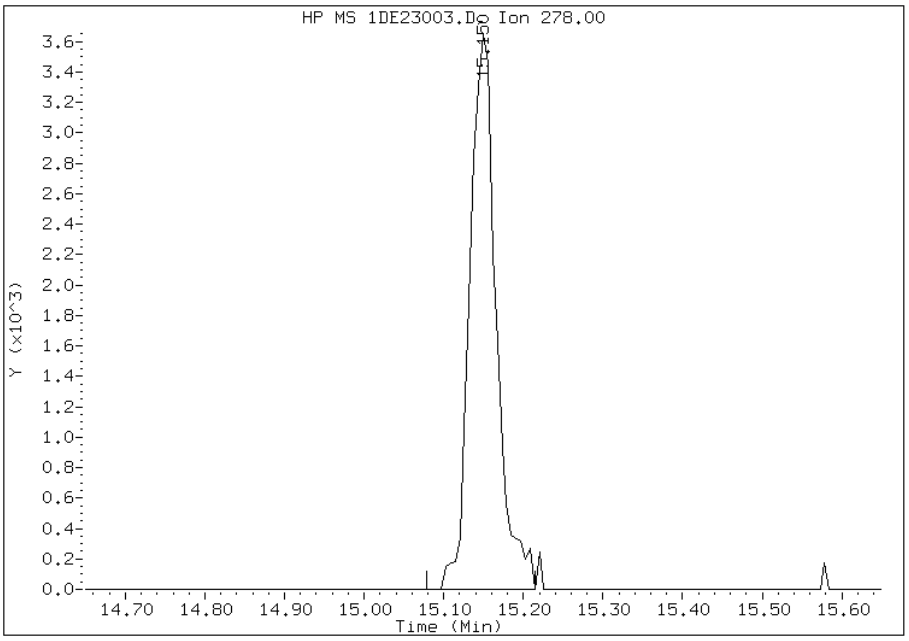
Manual Integration Results

RT: 15.15

Response: 8406

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 28-May-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMSD.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/28/2013

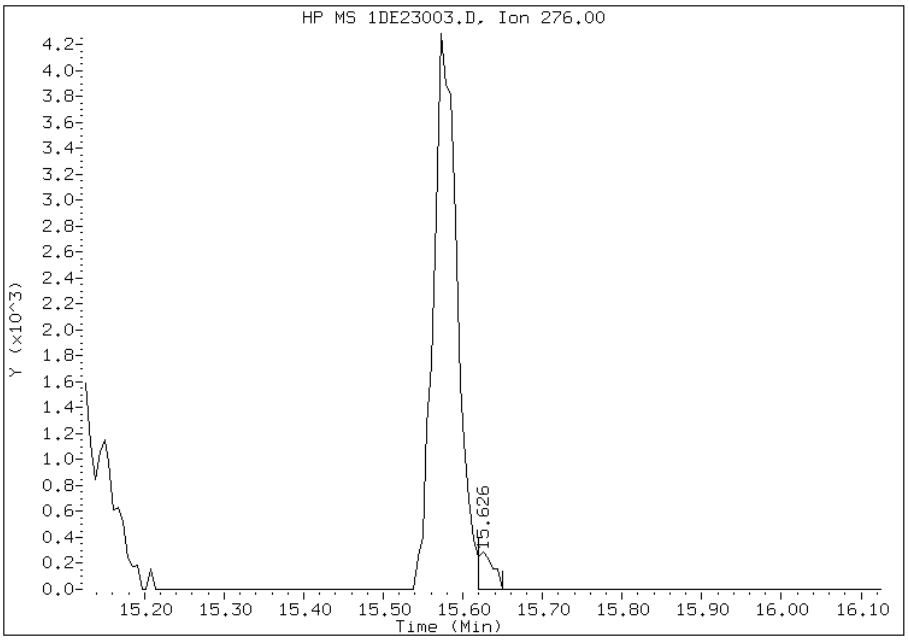
Processing Integration Results

RT: 15.63

Response: 387

Amount: 0

Conc: 0



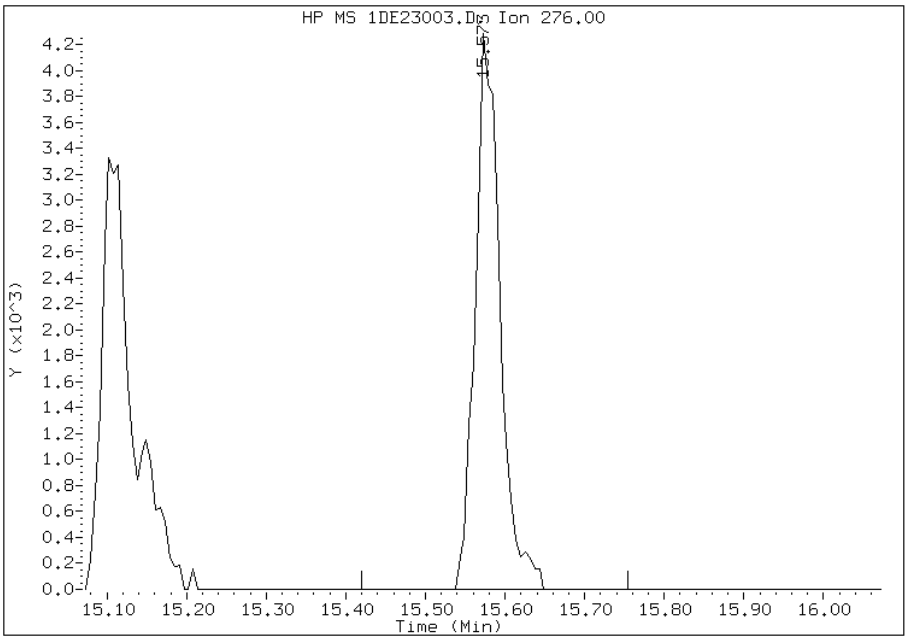
Manual Integration Results

RT: 15.57

Response: 9269

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 28-May-2013 11:37
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23004.D
Lab Smp Id: IC2
Inj Date : 23-MAY-2013 13:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:03 Cal File: 1DE23003.D
Als bottle: 4 Calibration Sample, Level: 2
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	6.283	6.283	(1.000)	2717054	40.0000	
*	7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1604224	40.0000	
*	11 Phenanthrene-d10	188	9.203	9.203	(1.000)	2663694	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	37357	1.00000	0.96
*	19 Chrysene-d12	240	11.565	11.565	(1.000)	2622056	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	2712615	40.0000	
	2 Naphthalene	128	6.301	6.301	(1.003)	67892	1.00000	1.0
	3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	42157	1.00000	0.99
	4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	44810	1.00000	1.0
	5 1,1'-Biphenyl	154	7.435	7.435	(0.935)	52741	1.00000	1.6
	6 Acenaphthylene	152	7.817	7.817	(0.983)	60413	1.00000	0.91
	8 Acenaphthene	154	7.975	7.975	(1.003)	42059	1.00000	1.00
	9 Dibenzofuran	168	8.122	8.122	(1.021)	58216	1.00000	1.0
	10 Fluorene	166	8.416	8.416	(1.058)	46002	1.00000	0.96
	12 Phenanthrene	178	9.221	9.221	(1.002)	71492	1.00000	0.99
	13 Anthracene	178	9.262	9.262	(1.006)	65898	1.00000	0.94
	16 Fluoranthene	202	10.202	10.202	(1.109)	67793	1.00000	0.92
	17 Pyrene	202	10.390	10.390	(0.898)	72384	1.00000	0.94
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	72436	1.00000	0.93
	20 Chrysene	228	11.589	11.589	(1.002)	69888	1.00000	1.00
	21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	60091	1.00000	0.88
	22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	65030	1.00000	0.91
	23 Benzo(a)pyrene	252	13.363	13.363	(0.992)	48714	1.00000	0.82
	25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.121)	46950	1.00000	0.81(H)
	26 Dibenzo(a,h)anthracene	278	15.138	15.138	(1.124)	52791	1.00000	0.89
	27 Benzo(g,h,i)perylene	276	15.567	15.567	(1.156)	54271	1.00000	0.88

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23004.D

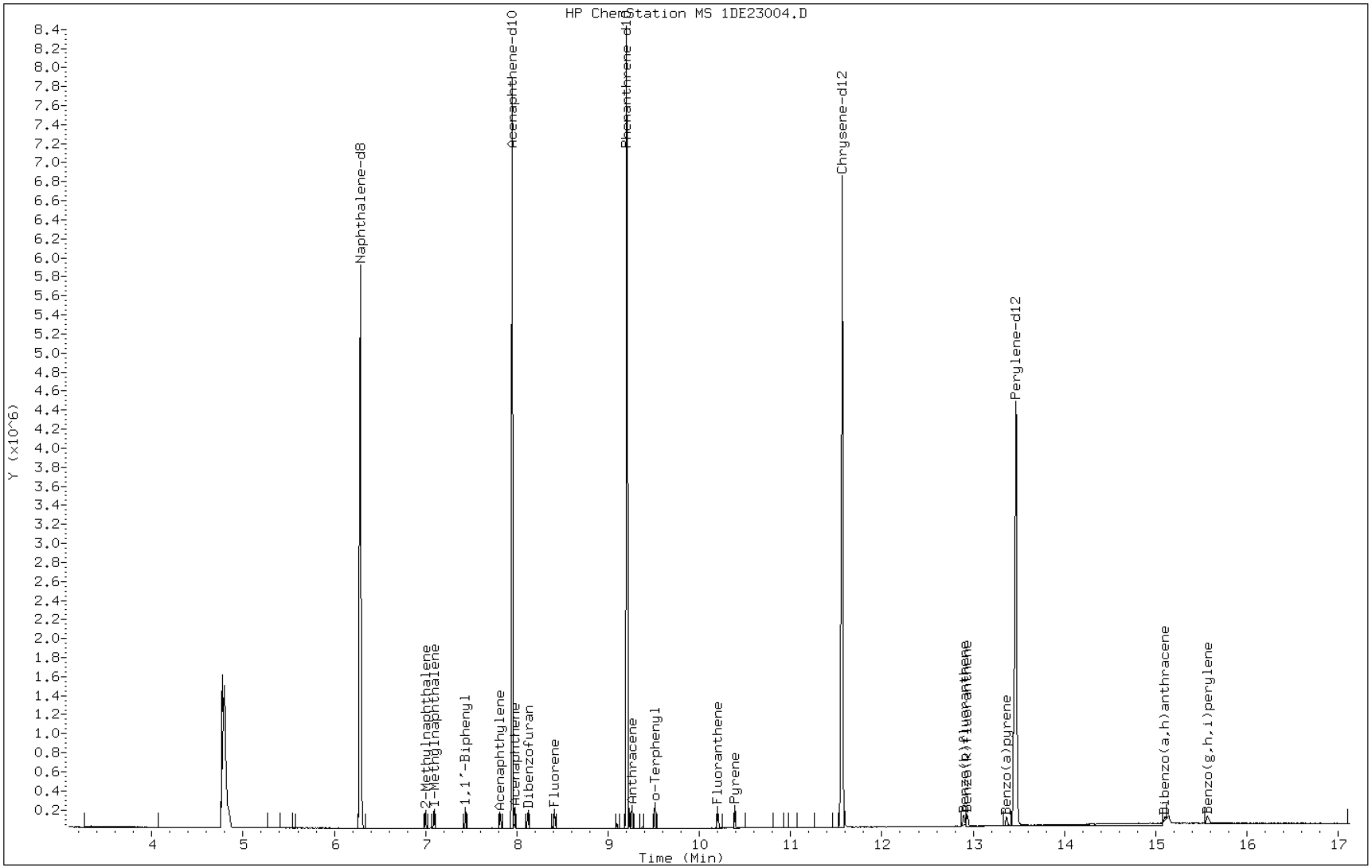
Date: 23-MAY-2013 13:26

Client ID:

Instrument: BSMSD.i

Sample Info: IC2

Operator: SCC



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Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23005.D
Lab Smp Id: IC3
Inj Date : 23-MAY-2013 13:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:26 Cal File: 1DE23004.D
Als bottle: 5 Calibration Sample, Level: 3
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	6.280	6.280	(1.000)	2865774	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1664831	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000)	2787264	40.0000	
$	15 o-Terphenyl	230	9.512	9.512	(1.033)	197816	5.00000	4.8
*	19 Chrysene-d12	240	11.568	11.568	(1.000)	2779548	40.0000	
*	24 Perylene-d12	264	13.472	13.472	(1.000)	2866015	40.0000	
	2 Naphthalene	128	6.304	6.304	(1.004)	342402	5.00000	4.8
	3 2-Methylnaphthalene	142	6.997	6.997	(1.114)	224268	5.00000	5.0
	4 1-Methylnaphthalene	142	7.091	7.091	(1.129)	228660	5.00000	4.9
	5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	276490	5.00000	7.2
	6 Acenaphthylene	152	7.820	7.820	(0.984)	340416	5.00000	4.9
	8 Acenaphthene	154	7.973	7.973	(1.003)	213507	5.00000	4.9
	9 Dibenzofuran	168	8.119	8.119	(1.021)	297831	5.00000	4.9
	10 Fluorene	166	8.413	8.413	(1.058)	246360	5.00000	5.0
	12 Phenanthrene	178	9.224	9.224	(1.002)	366377	5.00000	4.8
	13 Anthracene	178	9.265	9.265	(1.006)	366727	5.00000	5.0
	16 Fluoranthene	202	10.205	10.205	(1.108)	386131	5.00000	5.0
	17 Pyrene	202	10.393	10.393	(0.898)	400281	5.00000	4.9
	18 Benzo(a)anthracene	228	11.551	11.551	(0.998)	364317	5.00000	4.4
	20 Chrysene	228	11.592	11.592	(1.002)	350103	5.00000	4.7
	21 Benzo(b)fluoranthene	252	12.902	12.902	(0.958)	340701	5.00000	4.7
	22 Benzo(k)fluoranthene	252	12.937	12.937	(0.960)	362152	5.00000	4.8
	23 Benzo(a)pyrene	252	13.366	13.366	(0.992)	315324	5.00000	4.5
	25 Indeno(1,2,3-cd)pyrene	276	15.105	15.105	(1.121)	303899	5.00000	4.2(H)
	26 Dibenzo(a,h)anthracene	278	15.146	15.146	(1.124)	311908	5.00000	4.6
	27 Benzo(g,h,i)perylene	276	15.575	15.575	(1.156)	319890	5.00000	4.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23005.D

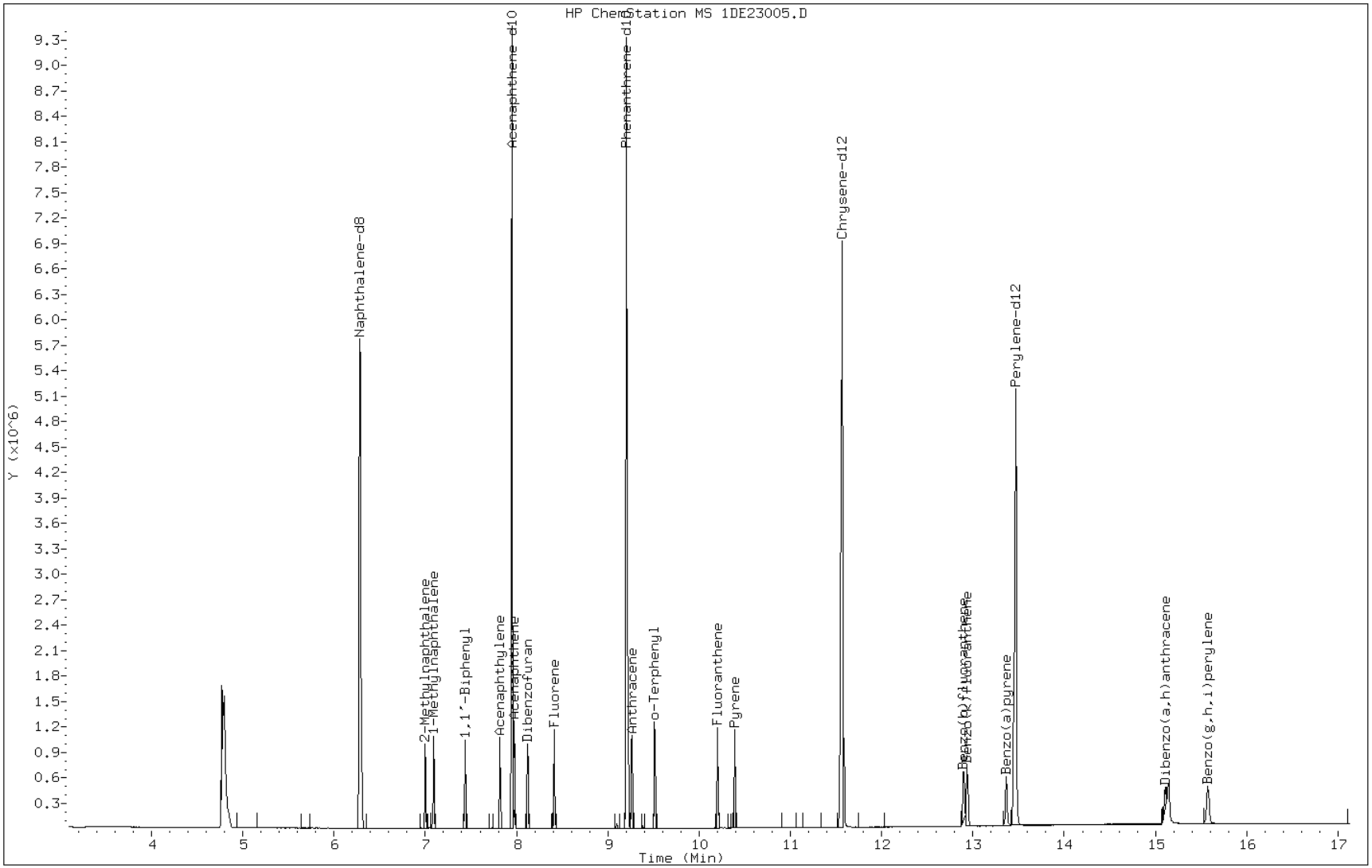
Date: 23-MAY-2013 13:48

Client ID:

Instrument: BSMSD.i

Sample Info: IC3

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23006.D
Lab Smp Id: IC4
Inj Date : 23-MAY-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:48 Cal File: 1DE23005.D
Als bottle: 6 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	6.284	6.284	(1.000)	3084725	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	442134	10.0000	10
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	2860263	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	2933068	40.0000	
	2 Naphthalene	128	6.301	6.301	(1.003)	771801	10.0000	10
	3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	507950	10.0000	10
	4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	519415	10.0000	10
	5 1,1'-Biphenyl	154	7.435	7.435	(0.936)	620318	10.0000	14
	6 Acenaphthylene	152	7.817	7.817	(0.984)	790555	10.0000	11
	8 Acenaphthene	154	7.976	7.976	(1.004)	479776	10.0000	10
	9 Dibenzofuran	168	8.123	8.123	(1.022)	659738	10.0000	10
	10 Fluorene	166	8.416	8.416	(1.059)	550212	10.0000	10
	12 Phenanthrene	178	9.221	9.221	(1.002)	818249	10.0000	10
	13 Anthracene	178	9.263	9.263	(1.006)	813240	10.0000	10
	16 Fluoranthene	202	10.203	10.203	(1.109)	864953	10.0000	11
	17 Pyrene	202	10.391	10.391	(0.898)	887682	10.0000	11
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	810407	10.0000	9.5
	20 Chrysene	228	11.589	11.589	(1.002)	770411	10.0000	10
	21 Benzo(b)fluoranthene	252	12.905	12.905	(0.958)	782118	10.0000	11
	22 Benzo(k)fluoranthene	252	12.941	12.941	(0.961)	805050	10.0000	10
	23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	726611	10.0000	10
	25 Indeno(1,2,3-cd)pyrene	276	15.114	15.114	(1.122)	718264	10.0000	9.6
	26 Dibenzo(a,h)anthracene	278	15.150	15.150	(1.125)	690573	10.0000	9.9
	27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.157)	710395	10.0000	11

Data File: 1DE23006.D

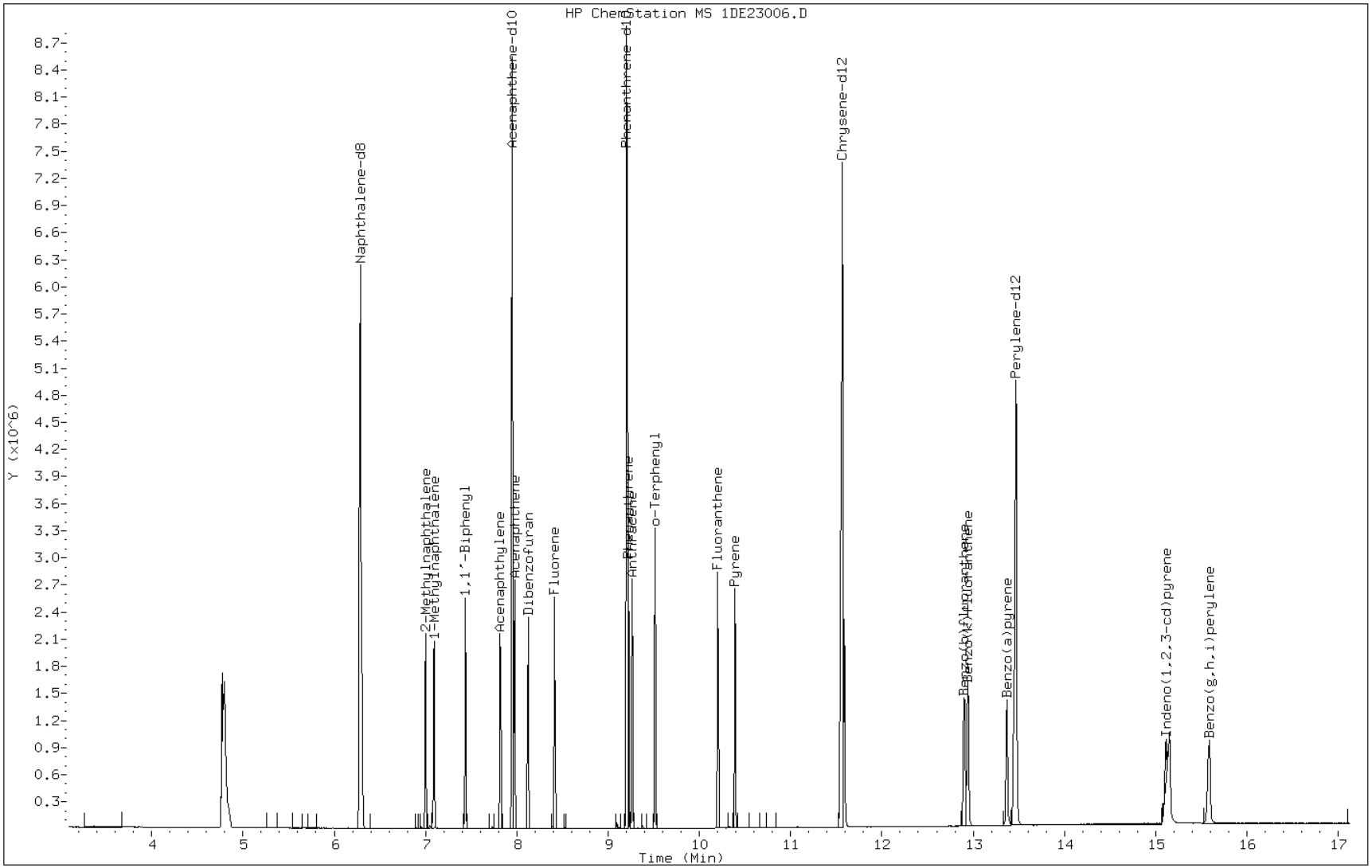
Date: 23-MAY-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC4

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23007.D
Lab Smp Id: ICIS
Inj Date : 23-MAY-2013 14:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:11 Cal File: 1DE23006.D
Als bottle: 7 Calibration Sample, Level: 5
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	6.284	6.284	(1.000)	3209942	40.0000	
*	7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	936684	20.0000	21
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	3009447	40.0000	
*	24 Perylene-d12	264	13.476	13.476	(1.000)	3048824	40.0000	
	2 Naphthalene	128	6.302	6.302	(1.003)	1601823	20.0000	20
	3 2-Methylnaphthalene	142	7.001	7.001	(1.114)	1036995	20.0000	20
	4 1-Methylnaphthalene	142	7.095	7.095	(1.129)	1048787	20.0000	20
	5 1,1'-Biphenyl	154	7.436	7.436	(0.936)	1271034	20.0000	26
	6 Acenaphthylene	152	7.817	7.817	(0.984)	1640830	20.0000	22
	8 Acenaphthene	154	7.976	7.976	(1.004)	967502	20.0000	20
	9 Dibenzofuran	168	8.123	8.123	(1.022)	1364999	20.0000	21
	10 Fluorene	166	8.417	8.417	(1.059)	1138861	20.0000	21
	12 Phenanthrene	178	9.228	9.228	(1.003)	1690403	20.0000	20
	13 Anthracene	178	9.263	9.263	(1.006)	1697570	20.0000	21
	16 Fluoranthene	202	10.203	10.203	(1.109)	1802958	20.0000	21
	17 Pyrene	202	10.397	10.397	(0.899)	1840728	20.0000	21
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1750909	20.0000	20
	20 Chrysene	228	11.595	11.595	(1.003)	1561209	20.0000	19
	21 Benzo(b)fluoranthene	252	12.912	12.912	(0.958)	1676574	20.0000	22
	22 Benzo(k)fluoranthene	252	12.953	12.953	(0.961)	1680826	20.0000	21
	23 Benzo(a)pyrene	252	13.376	13.376	(0.993)	1554051	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.127	15.127	(1.123)	1476159	20.0000	19
	26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.125)	1486524	20.0000	20
	27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1498391	20.0000	22

Data File: 1DE23007.D

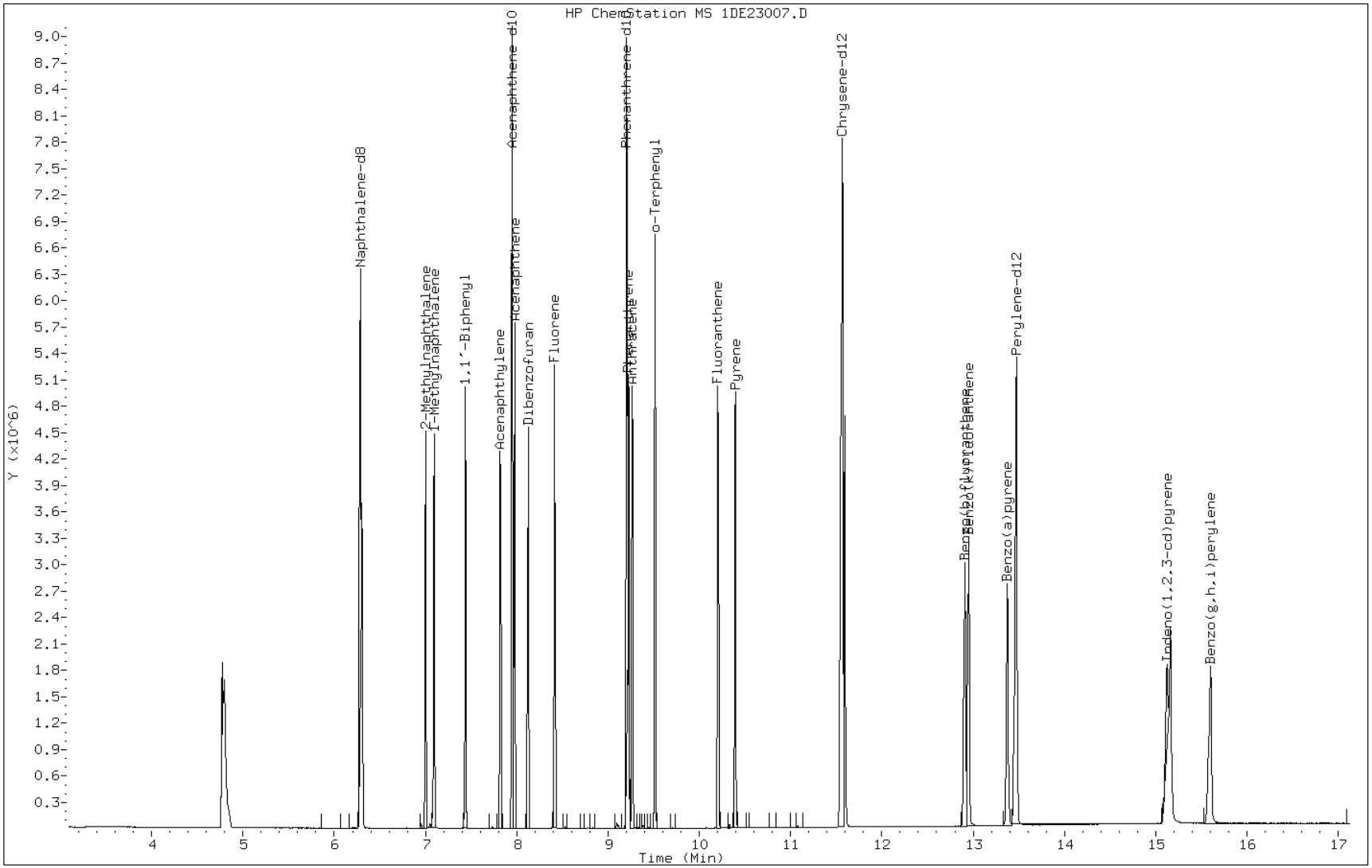
Date: 23-MAY-2013 14:33

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS

Operator: SCC



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Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23008.D
Lab Smp Id: IC6
Inj Date : 23-MAY-2013 14:56
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:33 Cal File: 1DE23007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

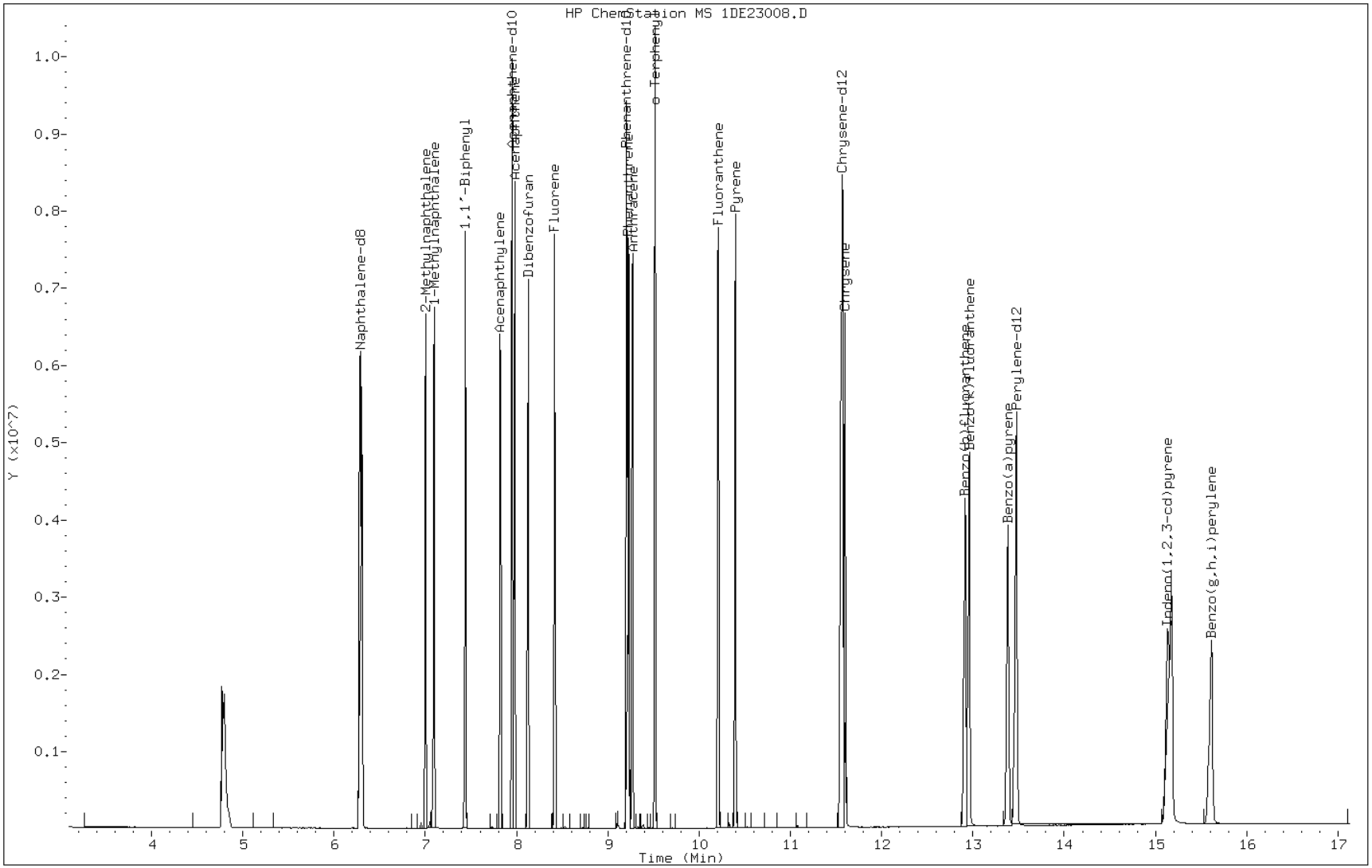
						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/l)	(ug/l)
*	1 Naphthalene-d8	136	6.286	6.286	(1.000) 3364617	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000) 1886585	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000) 3193681	40.0000	
$	15 o-Terphenyl	230	9.518	9.518	(1.034) 1451630	30.0000	31
*	19 Chrysene-d12	240	11.574	11.574	(1.000) 3127987	40.0000	
*	24 Perylene-d12	264	13.478	13.478	(1.000) 3115576	40.0000	
	2 Naphthalene	128	6.304	6.304	(1.003) 2454439	30.0000	30
	3 2-Methylnaphthalene	142	7.003	7.003	(1.114) 1611089	30.0000	30
	4 1-Methylnaphthalene	142	7.097	7.097	(1.129) 1622169	30.0000	30
	5 1,1'-Biphenyl	154	7.438	7.438	(0.936) 1954075	30.0000	35
	6 Acenaphthylene	152	7.820	7.820	(0.984) 2528965	30.0000	32
	8 Acenaphthene	154	7.978	7.978	(1.004) 1486714	30.0000	30
	9 Dibenzofuran	168	8.125	8.125	(1.022) 2095529	30.0000	31
	10 Fluorene	166	8.419	8.419	(1.059) 1759028	30.0000	31
	12 Phenanthrene	178	9.230	9.230	(1.003) 2572622	30.0000	30
	13 Anthracene	178	9.271	9.271	(1.007) 2636003	30.0000	31
	16 Fluoranthene	202	10.211	10.211	(1.109) 2822979	30.0000	32
	17 Pyrene	202	10.399	10.399	(0.898) 2878307	30.0000	31
	18 Benzo(a)anthracene	228	11.557	11.557	(0.998) 2709801	30.0000	29
	20 Chrysene	228	11.598	11.598	(1.002) 2431700	30.0000	29
	21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958) 2543308	30.0000	32
	22 Benzo(k)fluoranthene	252	12.961	12.961	(0.962) 2688538	30.0000	33
	23 Benzo(a)pyrene	252	13.384	13.384	(0.993) 2427727	30.0000	32
	25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123) 2359651	30.0000	29
	26 Dibenzo(a,h)anthracene	278	15.176	15.176	(1.126) 2300940	30.0000	31
	27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159) 2296193	30.0000	32

Data File: 1DE23008.D

Date: 23-MAY-2013 14:56

Client ID: Instrument: BSMSD.i

Sample Info: IC6 Operator: SCC



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Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23009.D
Lab Smp Id: IC7
Inj Date : 23-MAY-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:56 Cal File: 1DE23008.D
Als bottle: 9 Calibration Sample, Level: 7
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	6.283	6.283	(1.000)	3172868	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1767883	40.0000	
* 11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2959275	40.0000	
$ 15 o-Terphenyl	230	9.521	9.521	(1.034)	2294445	50.0000	53(A)
* 19 Chrysene-d12	240	11.577	11.577	(1.000)	2899179	40.0000	
* 24 Perylene-d12	264	13.481	13.481	(1.000)	2888367	40.0000	
2 Naphthalene	128	6.307	6.307	(1.004)	3854620	50.0000	49
3 2-Methylnaphthalene	142	7.006	7.006	(1.115)	2505140	50.0000	50(A)
4 1-Methylnaphthalene	142	7.100	7.100	(1.130)	2515238	50.0000	49
5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	3029358	50.0000	54(A)
6 Acenaphthylene	152	7.823	7.823	(0.984)	3904072	50.0000	53(A)
8 Acenaphthene	154	7.981	7.981	(1.004)	2292684	50.0000	49
9 Dibenzofuran	168	8.128	8.128	(1.022)	3233580	50.0000	50(A)
10 Fluorene	166	8.422	8.422	(1.059)	2721626	50.0000	52(A)
12 Phenanthrene	178	9.227	9.227	(1.002)	3974751	50.0000	50
13 Anthracene	178	9.268	9.268	(1.006)	4044900	50.0000	52(A)
16 Fluoranthene	202	10.214	10.214	(1.109)	4360425	50.0000	53(A)
17 Pyrene	202	10.402	10.402	(0.899)	4398475	50.0000	52(A)
18 Benzo(a)anthracene	228	11.559	11.559	(0.998)	4292530	50.0000	50
20 Chrysene	228	11.606	11.606	(1.003)	3781128	50.0000	49
21 Benzo(b)fluoranthene	252	12.923	12.923	(0.959)	4185749	50.0000	58(A)
22 Benzo(k)fluoranthene	252	12.970	12.970	(0.962)	4172175	50.0000	55(A)
23 Benzo(a)pyrene	252	13.393	13.393	(0.993)	3889042	50.0000	54(A)
25 Indeno(1,2,3-cd)pyrene	276	15.149	15.149	(1.124)	3980252	50.0000	53(A)
26 Dibenzo(a,h)anthracene	278	15.196	15.196	(1.127)	3746128	50.0000	54(A)
27 Benzo(g,h,i)perylene	276	15.637	15.637	(1.160)	3714851	50.0000	57(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1DE23009.D

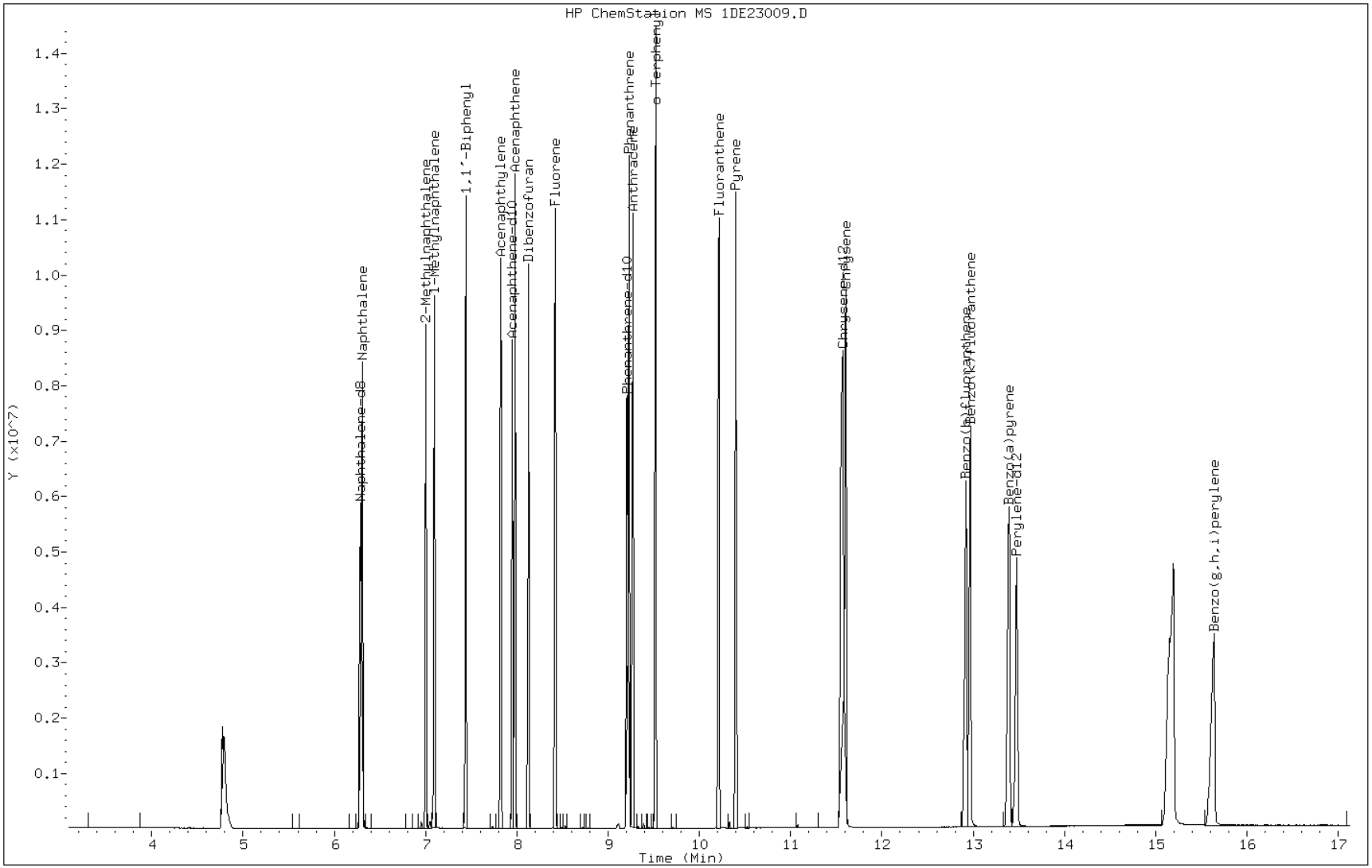
Date: 23-MAY-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: IC7

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab Sample ID: ICV 660-137704/22 Calibration Date: 05/22/2013 18:24

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CE22021.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9301	0.0000	16500	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6261	0.6170	0.0000	19700	20000	-1.5	35.0
1-Methylnaphthalene	Ave	0.6160	0.5991	0.0000	19400	20000	-2.7	35.0
Acenaphthylene	Ave	1.533	1.564	0.0000	20400	20000	2.0	35.0
Acenaphthene	Ave	0.9616	1.032	0.0000	21500	20000	7.3	35.0
Fluorene	Ave	1.227	1.251	0.0000	20400	20000	2.0	35.0
Phenanthrene	Ave	1.182	1.066	0.0000	18000	20000	-9.8	35.0
Anthracene	Ave	1.095	1.062	0.0000	19400	20000	-3.0	35.0
Carbazole	None		0.9704	0.0000	19100	20000	-4.5	35.0
Fluoranthene	Ave	1.208	1.218	0.0000	20200	20000	0.8	35.0
Pyrene	Ave	1.080	1.007	0.0000	18600	20000	-6.8	35.0
Benzo[a]anthracene	Ave	1.103	1.086	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.111	0.9873	0.0000	17800	20000	-11.1	35.0
Benzo[b]fluoranthene	Ave	0.9828	1.049	0.0000	21400	20000	6.8	35.0
Benzo[k]fluoranthene	Ave	1.098	1.039	0.0000	18900	20000	-5.4	35.0
Benzo[a]pyrene	Lin2	0.9064	0.8617	0.0000	17200	20000	-13.8	35.0
Indeno[1,2,3-cd]pyrene	None		0.8942	0.0000	16900	20000	-15.6	35.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9488	0.0000	22200	20000	11.1	35.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9372	0.0000	20200	20000	0.9	35.0
o-Terphenyl	Ave	0.6231	0.5760	0.0000	18500	20000	-7.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22021.D
Lab Smp Id: ICV-1448440
Inj Date : 22-MAY-2013 18:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:16 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 21 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/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	3002271	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	2105599	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.116	(1.000)	3933786	40.0000	
$	14 o-Terphenyl	230	6.368	6.369	(1.041)	1132912	18.4880	18.4879
*	18 Chrysene-d12	240	8.080	8.080	(1.000)	4897113	40.0000	
*	23 Perylene-d12	264	9.421	9.422	(1.000)	5001508	40.0000	
	2 Naphthalene	128	4.068	4.069	(1.003)	1396179	16.4792	16.4791
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	926205	19.7091	19.7091
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	899280	19.4499	19.4499
	5 Acenaphthylene	152	5.057	5.057	(0.983)	1647037	20.4044	20.4044
	7 Acenaphthene	154	5.168	5.169	(1.005)	1085991	21.4542	21.4542
	9 Fluorene	166	5.492	5.492	(1.067)	1317395	20.3970	20.3969
	11 Phenanthrene	178	6.133	6.134	(1.003)	2097305	18.0459	18.0458
	12 Anthracene	178	6.162	6.169	(1.008)	2089618	19.4074	19.4074
	13 Carbazole	167	6.268	6.269	(1.025)	1908718	19.0953	19.0952
	15 Fluoranthene	202	6.980	6.981	(1.141)	2395060	20.1616	20.1615
	16 Pyrene	202	7.151	7.157	(0.885)	2466023	18.6485	18.6484

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	8.068	8.069	(0.999)	2658526	19.6876	19.6876
19 Chrysene	228	8.098	8.098	(1.002)	2417569	17.7820	17.7819
20 Benzo(b)fluoranthene	252	9.009	9.016	(0.956)	2624437	21.3569	21.3569
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2597310	18.9241	18.9240
22 Benzo(a)pyrene	252	9.356	9.357	(0.993)	2154856	17.2473	17.2473
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.816	(1.147)	2236055	16.8743	16.8743(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.839	(1.149)	2372617	22.2254	22.2254
26 Benzo(g,h,i)perylene	276	11.233	11.245	(1.192)	2343662	20.1705	20.1704

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22021.D

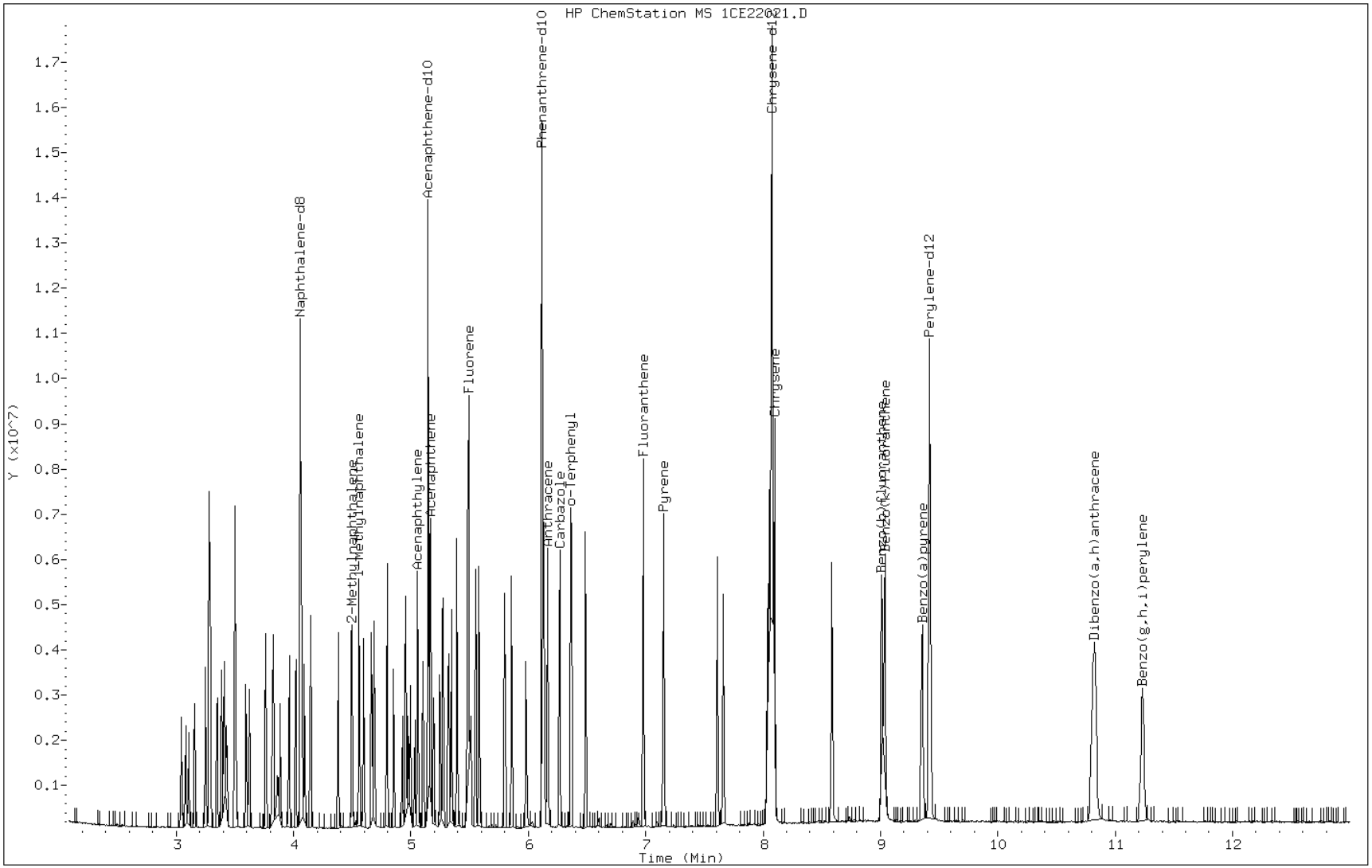
Date: 22-MAY-2013 18:24

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CE22021.D
Inj. Date and Time: 22-MAY-2013 18:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

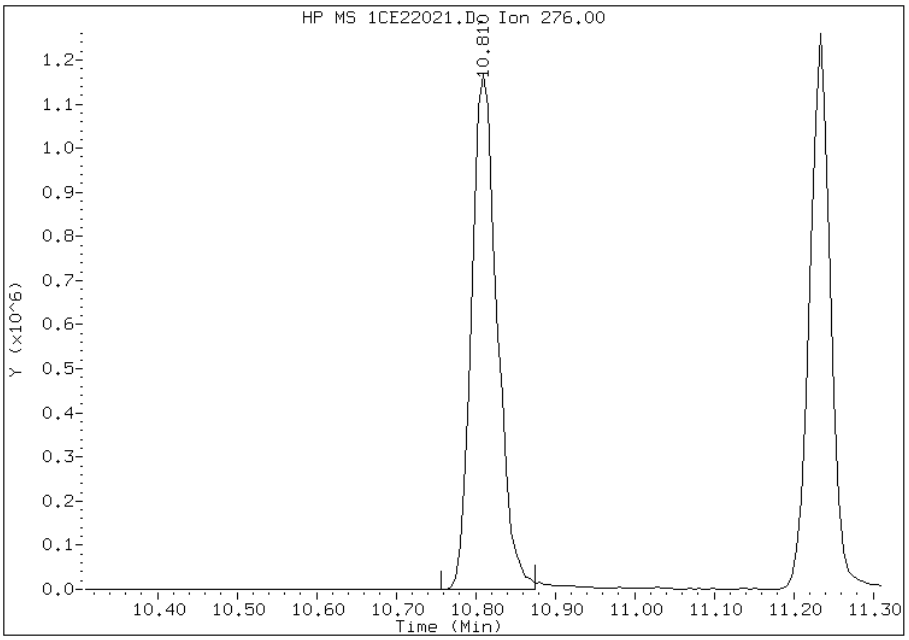
Processing Integration Results

RT: 10.81

Response: 2607256

Amount: 20

Conc: 20



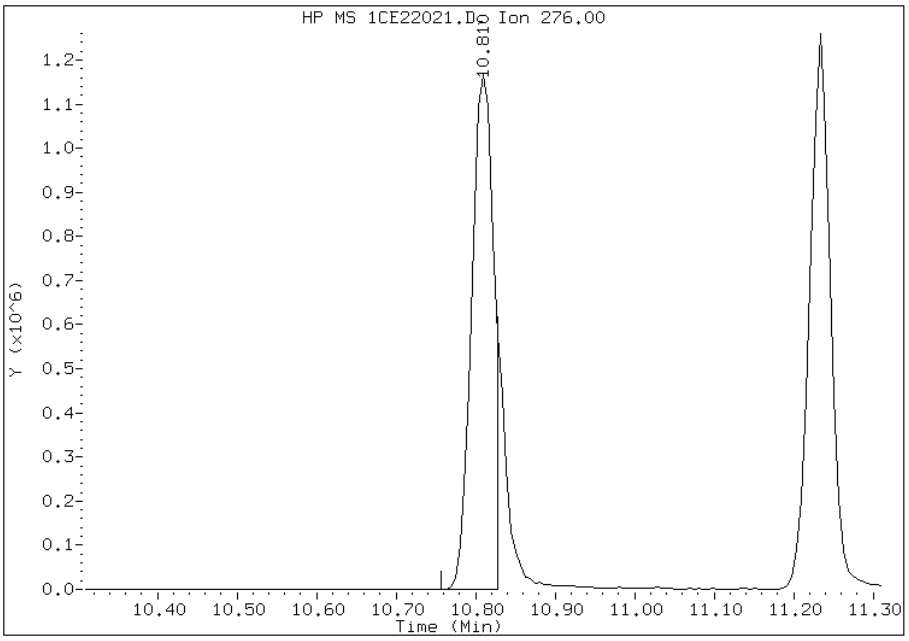
Manual Integration Results

RT: 10.81

Response: 2236055

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:17
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab Sample ID: CCVIS 660-138203/5 Calibration Date: 06/07/2013 12:13

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CF07005.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9753	0.0000	17300	20000	0.4	20.0
2-Methylnaphthalene	Ave	0.6261	0.6612	0.0000	21100	20000	5.6	20.0
1-Methylnaphthalene	Ave	0.6160	0.6286	0.0000	20400	20000	2.1	20.0
Acenaphthylene	Ave	1.533	1.632	0.0000	21300	20000	6.4	20.0
Acenaphthene	Ave	0.9616	0.9872	0.0000	20500	20000	2.7	20.0
Fluorene	Ave	1.227	1.344	0.0000	21900	20000	9.6	20.0
Phenanthrene	Ave	1.182	1.125	0.0000	19000	20000	-4.8	20.0
Anthracene	Ave	1.095	1.183	0.0000	21600	20000	8.1	20.0
Carbazole	None		0.999	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.208	1.304	0.0000	21600	20000	8.0	20.0
Pyrene	Ave	1.080	1.090	0.0000	20200	20000	0.9	20.0
Benzo[a]anthracene	Ave	1.103	1.113	0.0000	20200	20000	0.9	20.0
Chrysene	Ave	1.111	1.071	0.0000	19300	20000	-3.6	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.125	0.0000	22900	20000	14.5	20.0
Benzo[k]fluoranthene	Ave	1.098	1.039	0.0000	18900	20000	-5.3	20.0
Benzo[a]pyrene	Lin2	0.9064	1.047	0.0000	20900	20000	4.7	20.0
Indeno[1,2,3-cd]pyrene	None		1.043	0.0000	19700	20000	-1.7	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9458	0.0000	22200	20000	10.8	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9753	0.0000	21000	20000	5.0	20.0
o-Terphenyl	Ave	0.6231	0.6744	0.0000	21600	20000	8.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07005.D
Lab Smp Id: CCVIS-1531401
Inj Date : 07-JUN-2013 12:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 5 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/ml)	ON-COL (ug/ml)
* 1	Naphthalene-d8	136	4.033	4.033	(1.000)	2868080	40.0000	
* 6	Acenaphthene-d10	164	5.116	5.116	(1.000)	2068356	40.0000	(H)
* 10	Phenanthrene-d10	188	6.086	6.086	(1.000)	4102968	40.0000	(H)
$ 14	o-Terphenyl	230	6.333	6.333	(1.041)	1383412	20.0000	21.6449(H)
* 18	Chrysene-d12	240	8.051	8.051	(1.000)	5387017	40.0000	
* 23	Perylene-d12	264	9.374	9.374	(1.000)	5410820	40.0000	(H)
2	Naphthalene	128	4.045	4.045	(1.003)	1398587	20.0000	17.2799
3	2-Methylnaphthalene	142	4.468	4.468	(1.108)	948209	20.0000	21.1214
4	1-Methylnaphthalene	142	4.533	4.533	(1.124)	901498	20.0000	20.4101
5	Acenaphthylene	152	5.033	5.033	(0.984)	1687583	20.0000	21.2831(H)
7	Acenaphthene	154	5.139	5.139	(1.005)	1020934	20.0000	20.5321(H)
9	Fluorene	166	5.463	5.463	(1.068)	1390268	20.0000	21.9128(H)
11	Phenanthrene	178	6.104	6.104	(1.003)	2307302	20.0000	19.0341(H)
12	Anthracene	178	6.139	6.139	(1.009)	2427216	20.0000	21.6133(H)
13	Carbazole	167	6.239	6.239	(1.025)	2049737	20.0000	19.6571(H)
15	Fluoranthene	202	6.951	6.951	(1.142)	2675979	20.0000	21.5974(H)
16	Pyrene	202	7.121	7.121	(0.885)	2934623	20.0000	20.1739(H)
17	Benzo(a)anthracene	228	8.039	8.039	(0.999)	2996594	20.0000	20.1730
19	Chrysene	228	8.068	8.068	(1.002)	2884064	20.0000	19.2840
20	Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	3043659	20.0000	22.8947(H)
21	Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	2811526	20.0000	18.9352(H)
22	Benzo(a)pyrene	252	9.309	9.309	(0.993)	2832881	20.0000	20.9372(H)
24	Indeno(1,2,3-cd)pyrene	276	10.745	10.745	(1.146)	2822672	20.0000	19.6634(MH)
25	Dibenzo(a,h)anthracene	278	10.762	10.762	(1.148)	2558893	20.0000	22.1570(H)
26	Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	2638591	20.0000	20.9908(H)

QC Flag Legend

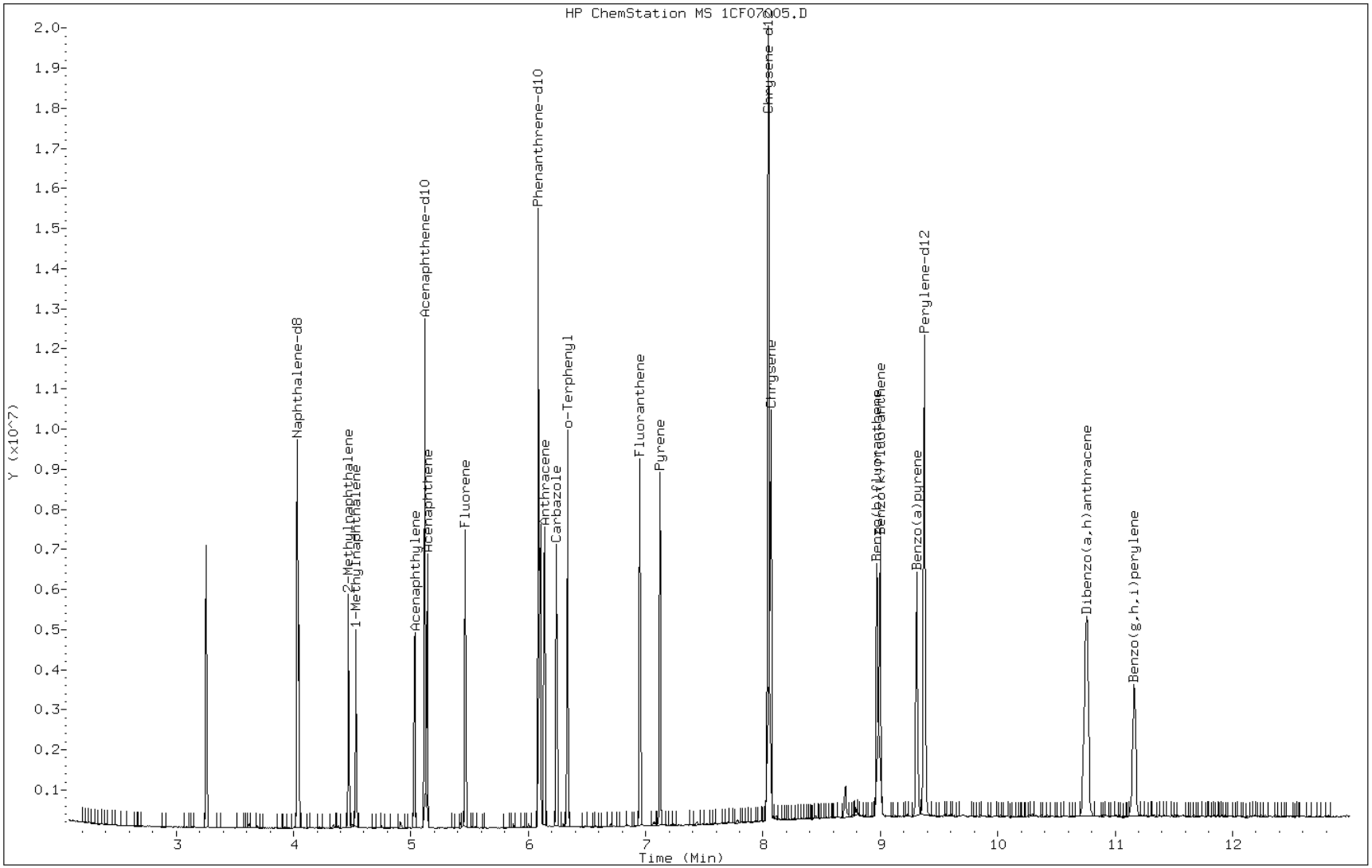
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CF07005.D

Date: 07-JUN-2013 12:13

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CF07005.D
Inj. Date and Time: 07-JUN-2013 12:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/07/2013

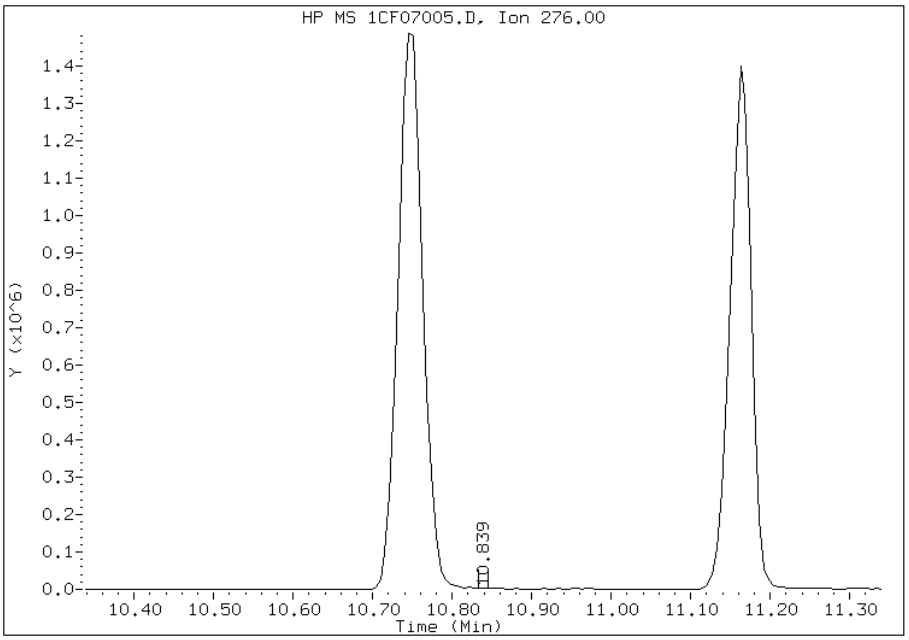
Processing Integration Results

RT: 10.84

Response: 1680

Amount: 0

Conc: 0



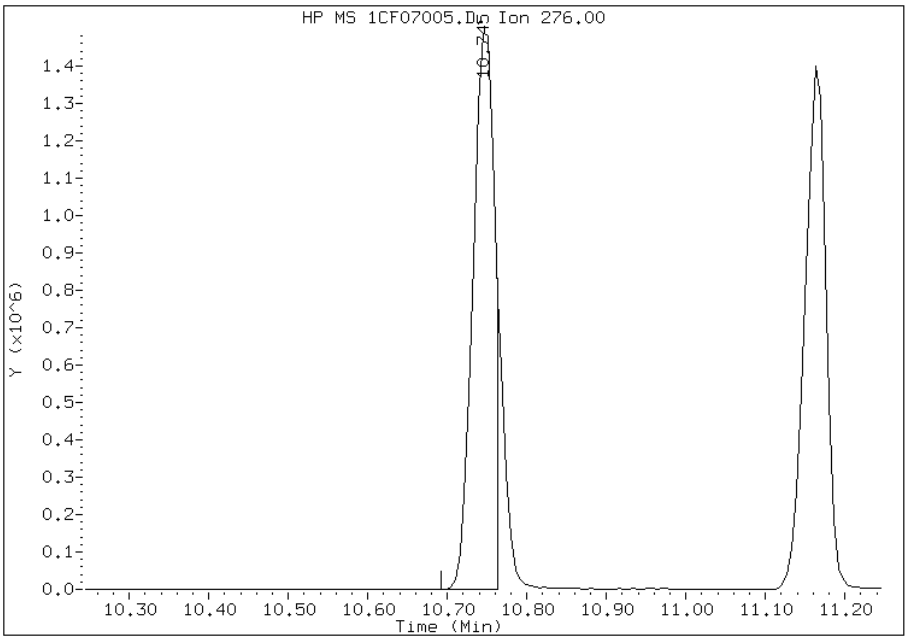
Manual Integration Results

RT: 10.75

Response: 2822672

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 07-Jun-2013 12:29
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab Sample ID: ICV 660-137830/10 Calibration Date: 05/23/2013 15:41

Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 15:19

Lab File ID: 1DE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.062	0.0000	21500	20000	7.7	35.0
2-Methylnaphthalene	Ave	0.6281	0.7030	0.0000	22400	20000	11.9	35.0
1-Methylnaphthalene	Ave	0.6466	0.6720	0.0000	20800	20000	3.9	35.0
Acenaphthylene	Ave	1.658	1.929	0.0000	23300	20000	16.3	35.0
Acenaphthene	Ave	1.052	1.163	0.0000	22100	20000	10.6	35.0
Dibenzofuran	Ave	1.451	1.520		21000	20000	4.8	
Fluorene	Ave	1.190	1.367	0.0000	23000	20000	14.8	35.0
Phenanthrene	Ave	1.083	1.170	0.0000	21600	20000	8.0	35.0
Anthracene	Ave	1.051	1.180	0.0000	22500	20000	12.3	35.0
Fluoranthene	Ave	1.108	1.253	0.0000	22600	20000	13.0	35.0
Pyrene	Ave	1.171	1.309	0.0000	22400	20000	11.8	35.0
Benzo[a]anthracene	Ave	1.187	1.227	0.0000	20700	20000	3.4	35.0
Chrysene	Ave	1.069	1.150	0.0000	21500	20000	7.6	35.0
Benzo[b]fluoranthene	Ave	1.002	1.129	0.0000	22500	20000	12.7	35.0
Benzo[k]fluoranthene	Ave	1.049	1.202	0.0000	22900	20000	14.5	35.0
Benzo[a]pyrene	Lin2	0.8952	1.064	0.0000	21500	20000	7.7	35.0
Indeno[1,2,3-cd]pyrene	None		1.009	0.0000	19600	20000	-2.2	35.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.023	0.0000	21500	20000	7.4	35.0
Benzo[g,h,i]perylene	Ave	0.9083	1.031	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5860	0.6262	0.0000	21400	20000	6.9	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23010.D
Lab Smp Id: ICV-1558374
Inj Date : 23-MAY-2013 15:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1558374
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 10 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	6.281	6.283	(1.000)	3254661	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.952	(1.000)	1828493	40.0000	
*	11 Phenanthrene-d10	188	9.207	9.209	(1.000)	3056039	40.0000	
$	15 o-Terphenyl	230	9.518	9.521	(1.034)	956788	21.3703	21
*	19 Chrysene-d12	240	11.569	11.577	(1.000)	2992199	40.0000	
*	24 Perylene-d12	264	13.472	13.481	(1.000)	3010942	40.0000	
	2 Naphthalene	128	6.304	6.307	(1.004)	1728141	21.5314	22
	3 2-Methylnaphthalene	142	7.003	7.006	(1.115)	1144034	22.3865	22
	4 1-Methylnaphthalene	142	7.092	7.100	(1.129)	1093612	20.7868	21
	5 1,1'-Biphenyl	154	7.438	7.441	(0.936)	1286663	20.8277	21
	6 Acenaphthylene	152	7.820	7.823	(0.984)	1763872	23.2664	23
	8 Acenaphthene	154	7.979	7.981	(1.004)	1063560	22.1147	22
	9 Dibenzofuran	168	8.126	8.128	(1.022)	1389403	20.9522	21
	10 Fluorene	166	8.419	8.422	(1.059)	1249621	22.9645	23
	12 Phenanthrene	178	9.224	9.227	(1.002)	1787673	21.5987	22
	13 Anthracene	178	9.266	9.268	(1.006)	1803785	22.4610	22
	16 Fluoranthene	202	10.206	10.214	(1.108)	1914304	22.6079	23

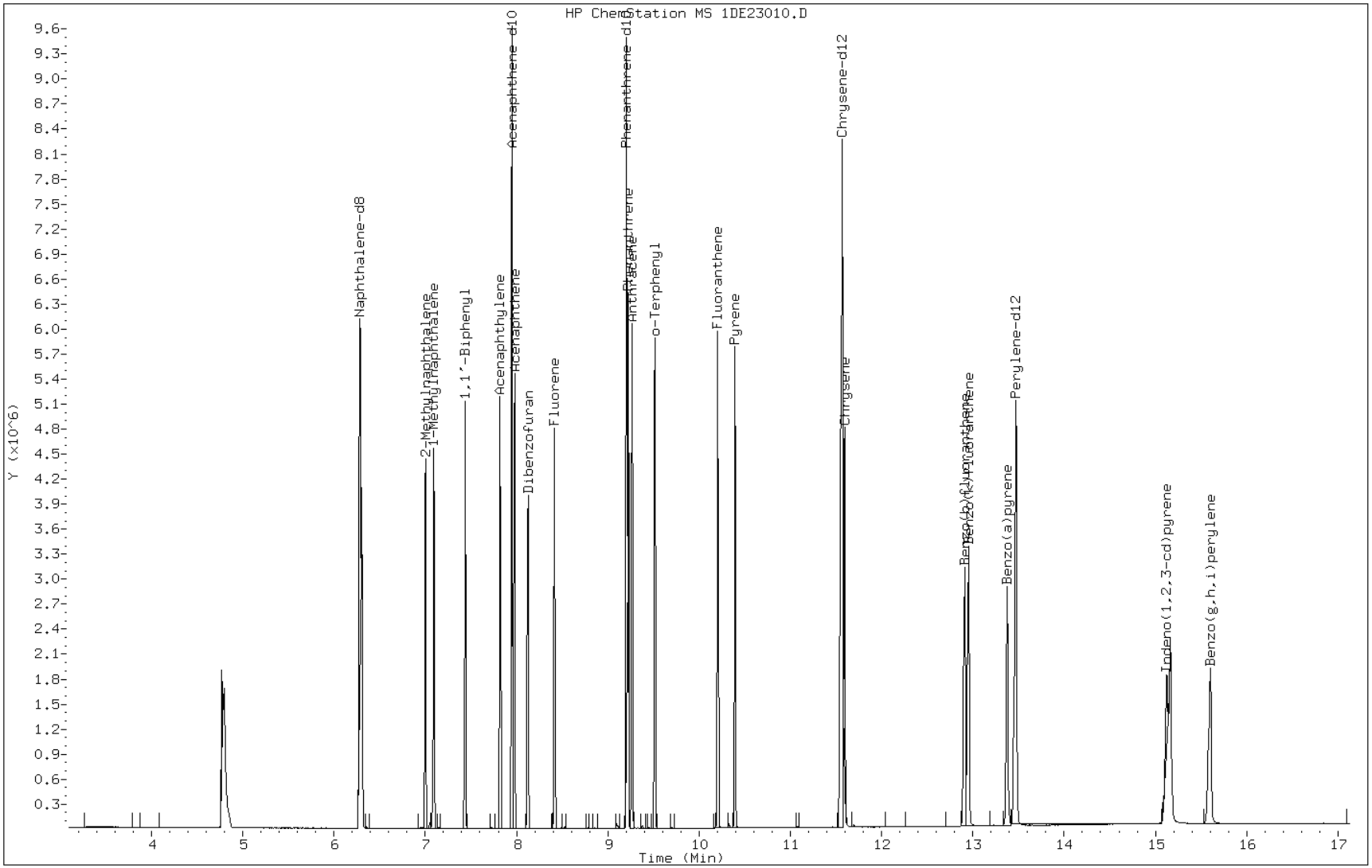
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	12.908	12.923	(0.958)	1699838	22.5351	22
22 Benzo(k)fluoranthene	252	12.949	12.970	(0.961)	1809098	22.9026	23
23 Benzo(a)pyrene	252	13.378	13.393	(0.993)	1601318	21.5420	22
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.149	(1.123)	1519348	19.5614	20
26 Dibenzo(a,h)anthracene	278	15.165	15.196	(1.126)	1540208	21.4753	21
27 Benzo(g,h,i)perylene	276	15.605	15.637	(1.158)	1552255	22.7045	23

Data File: 1DE23010.D

Date: 23-MAY-2013 15:41

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1558374 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab Sample ID: CCVIS 660-138205/4 Calibration Date: 06/07/2013 12:17

Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 15:19

Lab File ID: 1DF07004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9888	0.0000	20000	20000	0.2	20.0
2-Methylnaphthalene	Ave	0.6281	0.6432	0.0000	20500	20000	2.4	20.0
1-Methylnaphthalene	Ave	0.6466	0.6333	0.0000	19600	20000	-2.1	20.0
Acenaphthylene	Ave	1.658	1.830	0.0000	22100	20000	10.4	20.0
Acenaphthene	Ave	1.052	1.067	0.0000	20300	20000	1.4	20.0
Dibenzofuran	Ave	1.451	1.548		21300	20000	6.7	
Fluorene	Ave	1.190	1.274	0.0000	21400	20000	7.0	20.0
Phenanthrene	Ave	1.083	1.098	0.0000	20300	20000	1.3	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.1	20.0
Fluoranthene	Ave	1.108	1.159	0.0000	20900	20000	4.5	20.0
Pyrene	Ave	1.171	1.236	0.0000	21100	20000	5.6	20.0
Benzo[a]anthracene	Ave	1.187	1.147	0.0000	19300	20000	-3.4	20.0
Chrysene	Ave	1.069	1.019	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Ave	1.002	1.093	0.0000	21800	20000	9.0	20.0
Benzo[k]fluoranthene	Ave	1.049	1.126	0.0000	21500	20000	7.3	20.0
Benzo[a]pyrene	Lin2	0.8952	1.036	0.0000	21000	20000	4.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.001	0.0000	19400	20000	-2.9	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9850	0.0000	20700	20000	3.4	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9558	0.0000	21000	20000	5.2	20.0
o-Terphenyl	Ave	0.5860	0.6034	0.0000	20600	20000	3.0	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07004.D
Lab Smp Id: CCVIS-1559459
Inj Date : 07-JUN-2013 12:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 4 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	6.266	6.266	(1.000)	3268181	40.0000	
*	7 Acenaphthene-d10	164	7.935	7.935	(1.000)	1761876	40.0000	
*	11 Phenanthrene-d10	188	9.192	9.192	(1.000)	2916630	40.0000	
$	15 o-Terphenyl	230	9.498	9.498	(1.033)	879948	20.0000	20
*	19 Chrysene-d12	240	11.554	11.554	(1.000)	2760869	40.0000	
*	24 Perylene-d12	264	13.458	13.458	(1.000)	2646512	40.0000	
	2 Naphthalene	128	6.284	6.284	(1.003)	1615836	20.0000	20
	3 2-Methylnaphthalene	142	6.983	6.983	(1.114)	1050980	20.0000	20
	4 1-Methylnaphthalene	142	7.077	7.077	(1.129)	1034786	20.0000	20
	5 1,1'-Biphenyl	154	7.418	7.418	(0.935)	1281085	20.0000	22
	6 Acenaphthylene	152	7.805	7.805	(0.984)	1612307	20.0000	22
	8 Acenaphthene	154	7.958	7.958	(1.003)	939714	20.0000	20
	9 Dibenzofuran	168	8.111	8.111	(1.022)	1363889	20.0000	21
	10 Fluorene	166	8.399	8.399	(1.058)	1122557	20.0000	21
	12 Phenanthrene	178	9.210	9.210	(1.002)	1600988	20.0000	20
	13 Anthracene	178	9.251	9.251	(1.006)	1641583	20.0000	21
	16 Fluoranthene	202	10.191	10.191	(1.109)	1689467	20.0000	21
	17 Pyrene	202	10.379	10.379	(0.898)	1706847	20.0000	21
	18 Benzo(a)anthracene	228	11.536	11.536	(0.998)	1583333	20.0000	19
	20 Chrysene	228	11.577	11.577	(1.002)	1406902	20.0000	19
	21 Benzo(b)fluoranthene	252	12.894	12.894	(0.958)	1445899	20.0000	22
	22 Benzo(k)fluoranthene	252	12.935	12.935	(0.961)	1489728	20.0000	21
	23 Benzo(a)pyrene	252	13.358	13.358	(0.993)	1370558	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.103	15.103	(1.122)	1325081	20.0000	19(H)
	26 Dibenzo(a,h)anthracene	278	15.144	15.144	(1.125)	1303367	20.0000	21
	27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.158)	1264720	20.0000	21

QC Flag Legend

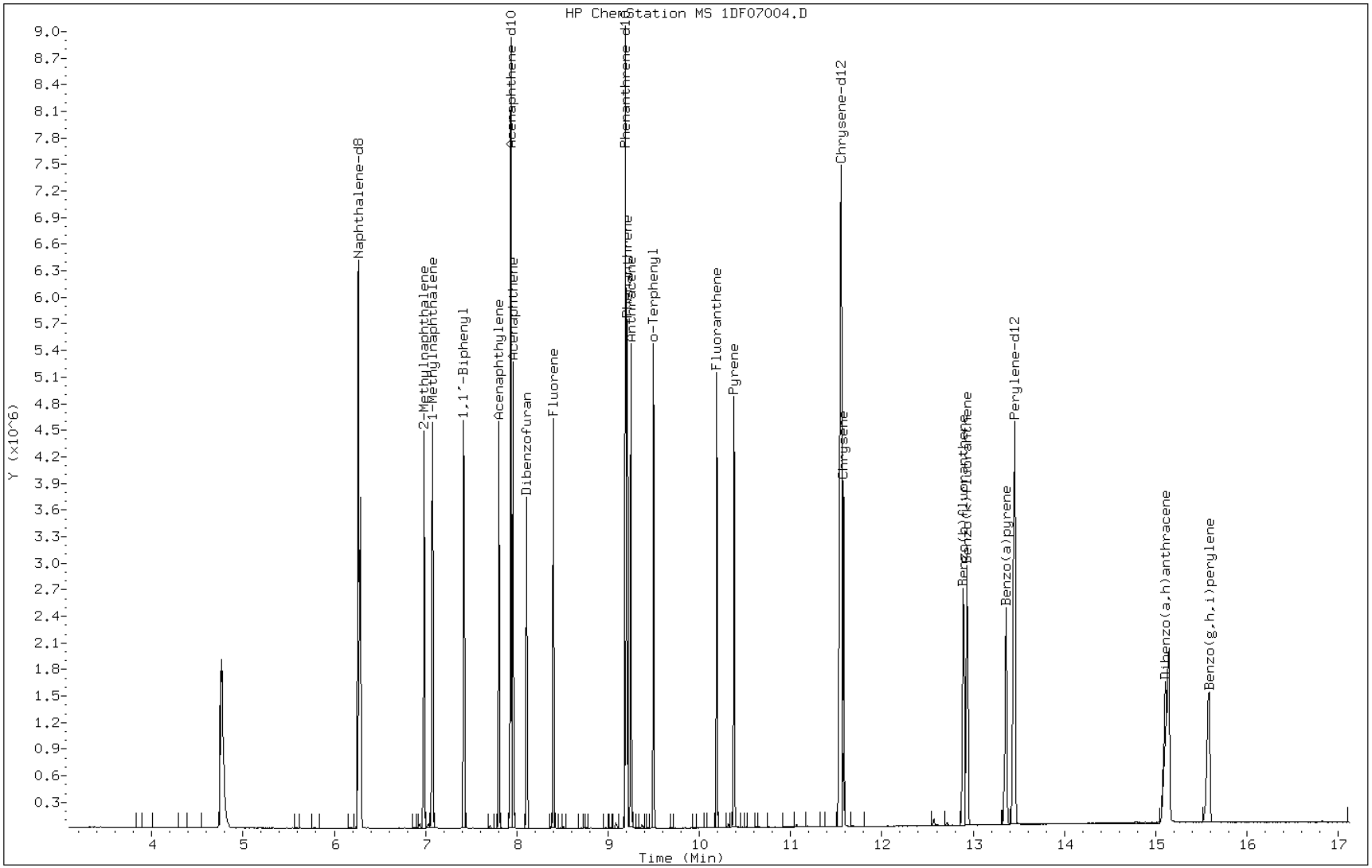
H - Operator selected an alternate compound hit.

Data File: 1DF07004.D

Date: 07-JUN-2013 12:17

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1559459 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Lab Sample ID: CCVIS 660-138352/3 Calibration Date: 06/11/2013 12:00

Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 15:19

Lab File ID: 1DF11003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9670	0.0000	19600	20000	-2.0	20.0
2-Methylnaphthalene	Ave	0.6281	0.6475	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6466	0.6335	0.0000	19600	20000	-2.0	20.0
Acenaphthylene	Ave	1.658	1.784	0.0000	21500	20000	7.6	20.0
Acenaphthene	Ave	1.052	1.037	0.0000	19700	20000	-1.5	20.0
Fluorene	Ave	1.190	1.264	0.0000	21200	20000	6.2	20.0
Phenanthrene	Ave	1.083	1.074	0.0000	19800	20000	-0.8	20.0
Anthracene	Ave	1.051	1.069	0.0000	20300	20000	1.7	20.0
Fluoranthene	Ave	1.108	1.137	0.0000	20500	20000	2.6	20.0
Pyrene	Ave	1.171	1.184	0.0000	20200	20000	1.1	20.0
Benzo[a]anthracene	Ave	1.187	1.121	0.0000	18900	20000	-5.6	20.0
Chrysene	Ave	1.069	0.9450	0.0000	17700	20000	-11.6	20.0
Benzo[b]fluoranthene	Ave	1.002	1.065	0.0000	21300	20000	6.3	20.0
Benzo[k]fluoranthene	Ave	1.049	1.053	0.0000	20100	20000	0.4	20.0
Benzo[a]pyrene	Lin2	0.8952	0.9841	0.0000	19900	20000	-0.3	20.0
Indeno[1,2,3-cd]pyrene	None		0.9423	0.0000	18300	20000	-8.6	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9034	0.0000	19000	20000	-5.1	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.8461	0.0000	18600	20000	-6.8	20.0
o-Terphenyl	Ave	0.5860	0.6179	0.0000	21100	20000	5.4	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 11-JUN-2013 12:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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

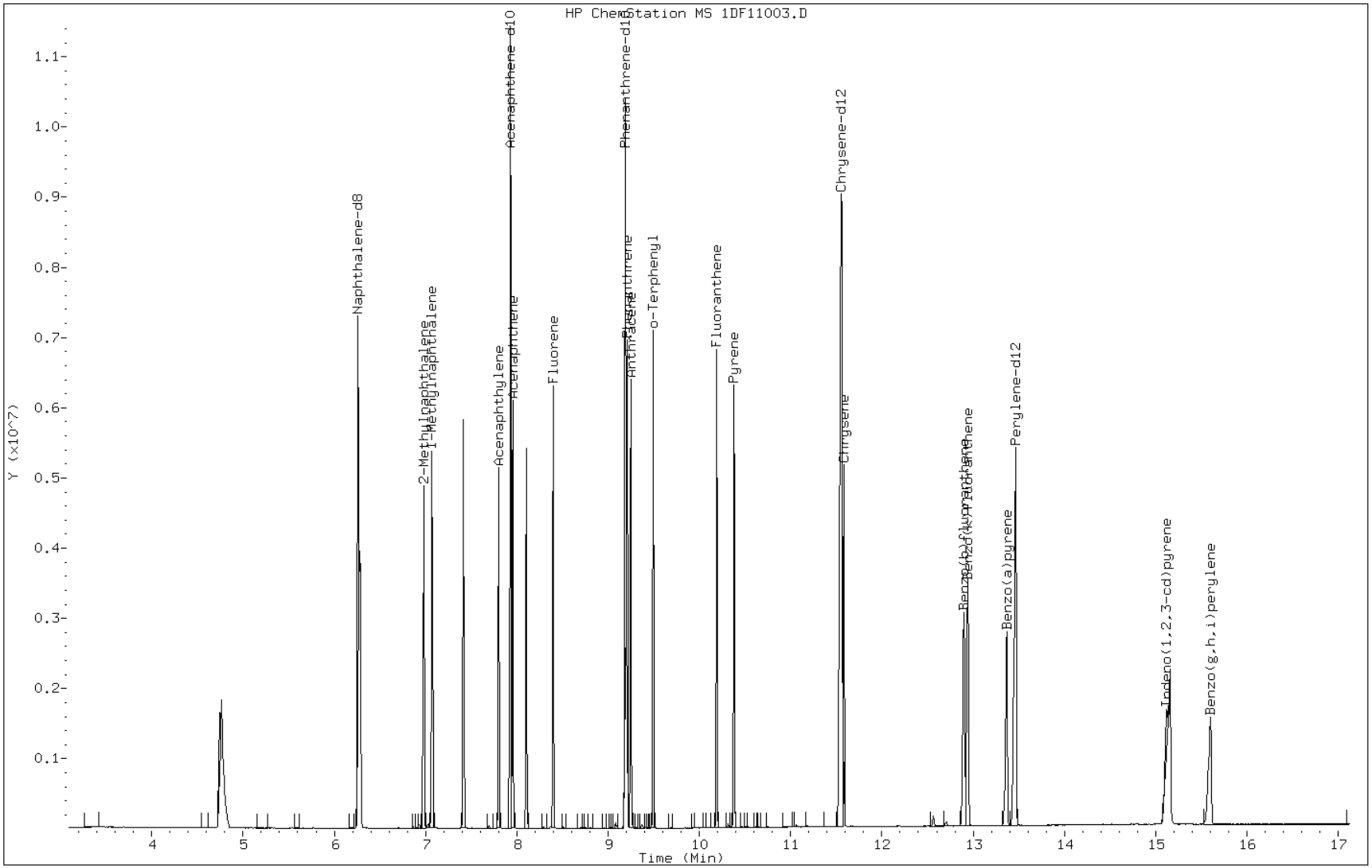
		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.260	6.260	(1.000)	3968569	40.0000	
*	7 Acenaphthene-d10	164	7.929	7.929	(1.000)	2227186	40.0000	
*	11 Phenanthrene-d10	188	9.192	9.192	(1.000)	3833653	40.0000	
$	15 o-Terphenyl	230	9.497	9.497	(1.033)	1184460	20.0000	21
*	19 Chrysene-d12	240	11.560	11.560	(1.000)	3693716	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	3237119	40.0000	
	2 Naphthalene	128	6.284	6.284	(1.004)	1918706	20.0000	20
	3 2-Methylnaphthalene	142	6.977	6.977	(1.114)	1284782	20.0000	21
	4 1-Methylnaphthalene	142	7.071	7.071	(1.129)	1257117	20.0000	20
	6 Acenaphthylene	152	7.799	7.799	(0.984)	1986522	20.0000	22
	8 Acenaphthene	154	7.958	7.958	(1.004)	1154577	20.0000	20
	10 Fluorene	166	8.399	8.399	(1.059)	1407317	20.0000	21
	12 Phenanthrene	178	9.210	9.210	(1.002)	2059017	20.0000	20
	13 Anthracene	178	9.251	9.251	(1.006)	2048559	20.0000	20
	16 Fluoranthene	202	10.191	10.191	(1.109)	2179385	20.0000	20
	17 Pyrene	202	10.379	10.379	(0.898)	2187090	20.0000	20
	18 Benzo(a)anthracene	228	11.536	11.536	(0.998)	2069727	20.0000	19
	20 Chrysene	228	11.583	11.583	(1.002)	1745196	20.0000	18
	21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	1723940	20.0000	21
	22 Benzo(k)fluoranthene	252	12.940	12.940	(0.961)	1704631	20.0000	20
	23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	1592797	20.0000	20
	25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.123)	1525088	20.0000	18
	26 Dibenzo(a,h)anthracene	278	15.156	15.156	(1.125)	1462145	20.0000	19
	27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1369532	20.0000	19

Data File: 1DF11003.D

Date: 11-JUN-2013 12:00

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1559459 Operator: SCC



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Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-MAY-2013 10:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 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

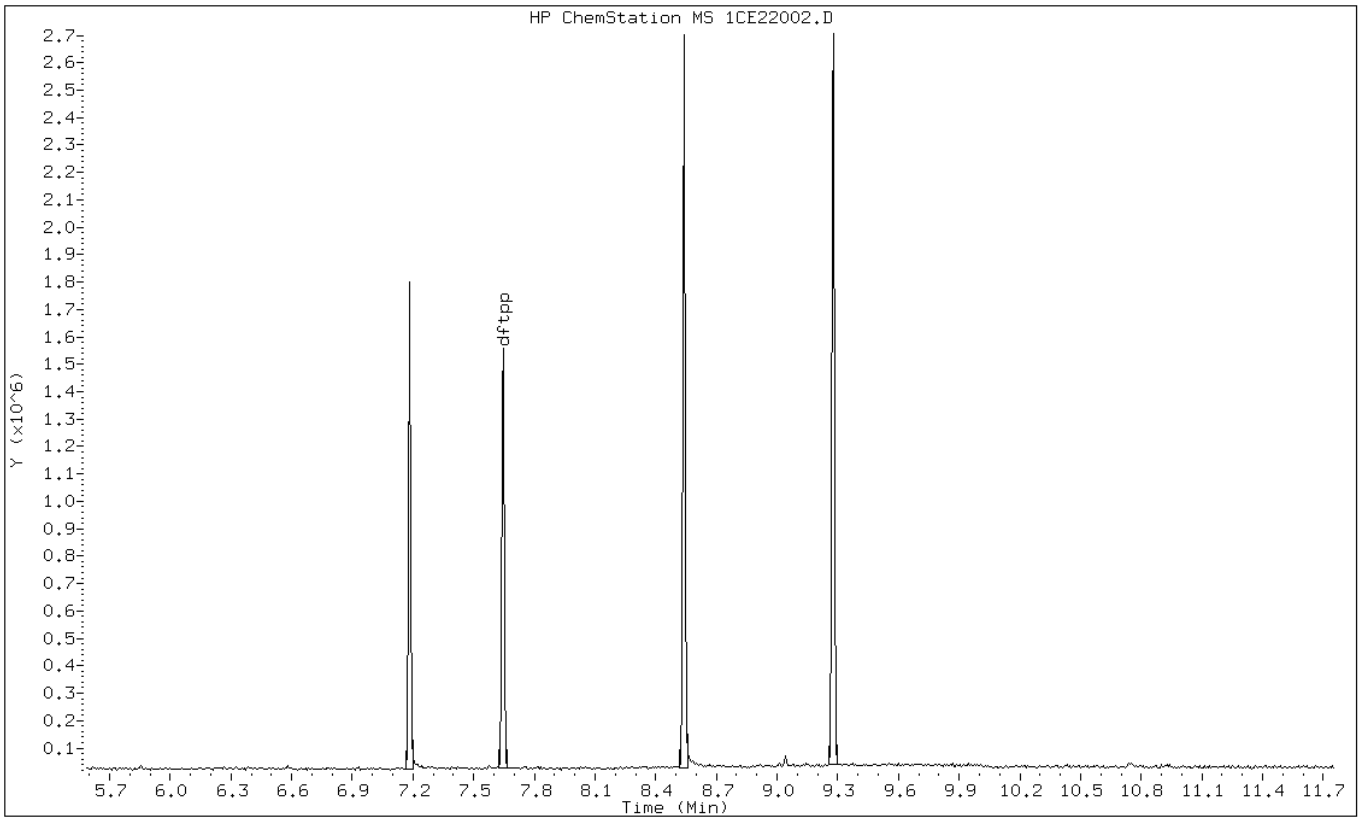
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.645	7.669	-0.024	198	167424			50.00- 0.00	100.00
7.645	7.669	-0.024	51	44984			10.00- 80.00	26.87
7.645	7.669	-0.024	68	1129			0.00- 2.00	1.61
7.645	7.669	-0.024	69	70064			0.00- 0.00	41.85
7.645	7.669	-0.024	70	616			0.00- 2.00	0.88
7.645	7.669	-0.024	127	82884			10.00- 80.00	49.51
7.645	7.669	-0.024	197	472			0.00- 2.00	0.28
7.645	7.669	-0.024	442	146592			50.00- 0.00	87.56
7.645	7.669	-0.024	199	11155			5.00- 9.00	6.66
7.645	7.669	-0.024	275	42468			10.00- 60.00	25.37
7.645	7.669	-0.024	365	4440			1.00- 0.00	2.65
7.645	7.669	-0.024	441	23620			0.01- 99.99	89.69
7.645	7.669	-0.024	443	26335			15.00- 24.00	17.96

Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



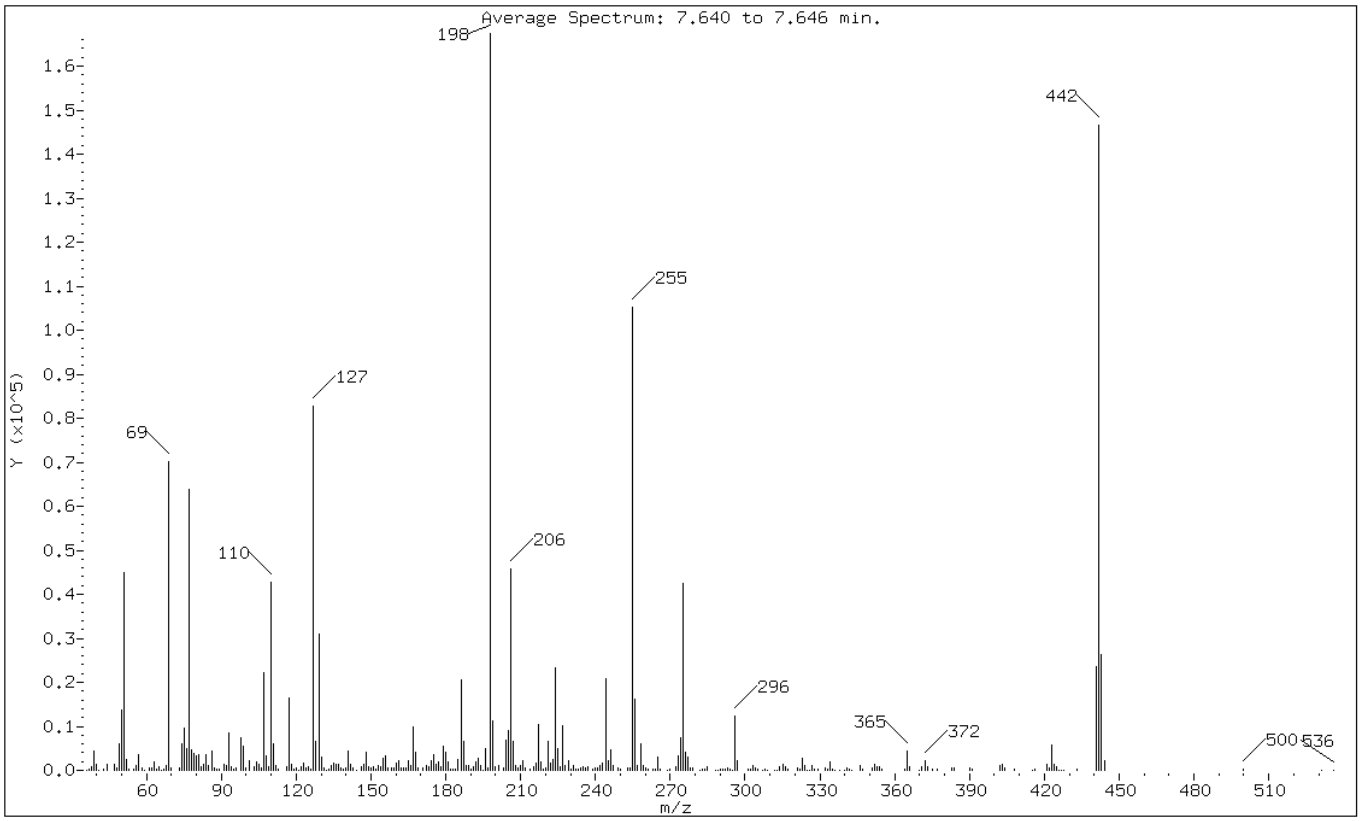
Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.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	26.87
68	Less than 2.00% of mass 69	0.67 (1.61)
69	Mass 69 relative abundance	41.85
70	Less than 2.00% of mass 69	0.37 (0.88)
127	10.00 - 80.00% of mass 198	49.51
197	Less than 2.00% of mass 198	0.28
442	Greater than 50.00% of mass 198	87.56
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	25.37
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	14.11
443	15.00 - 24.00% of mass 442	15.73 (17.96)

Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D
Spectrum: Average Spectrum: 7.640 to 7.646 min.
Location of Maximum: 198.00
Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	75	126.00	393	207.00	6605	301.00	380
37.00	396	127.00	82880	208.00	1162	302.00	376
38.00	719	128.00	6577	209.00	669	303.00	1097
39.00	4378	129.00	30872	210.00	1181	304.00	637
40.00	1473	130.00	2981	211.00	2206	305.00	342
41.00	114	131.00	437	212.00	530	307.00	79
43.00	174	132.00	132	214.00	245	308.00	199
44.00	1252	133.00	325	215.00	710	309.00	123
47.00	1437	134.00	1203	216.00	1569	312.00	136
48.00	452	135.00	1681	217.00	10494	313.00	85
49.00	6079	136.00	1336	218.00	1851	314.00	777
50.00	13820	137.00	1477	219.00	226	315.00	1253
51.00	44984	138.00	461	220.00	657	316.00	780
52.00	2340	139.00	168	221.00	6686	317.00	370
53.00	192	140.00	413	222.00	1781	321.00	516
55.00	403	141.00	4386	223.00	2470	322.00	257
56.00	1043	142.00	1297	224.00	23312	323.00	2758
57.00	3552	143.00	665	225.00	4963	324.00	1025
58.00	422	144.00	85	226.00	702	325.00	85
59.00	131	146.00	705	227.00	10024	326.00	125
61.00	561	147.00	1240	228.00	1137	327.00	1069
62.00	681	148.00	4136	229.00	2177	328.00	289
63.00	1840	149.00	844	230.00	219	329.00	227
64.00	304	150.00	489	231.00	1142	332.00	630
65.00	836	151.00	750	232.00	188	333.00	403
66.00	106	152.00	217	233.00	381	334.00	1854
67.00	213	153.00	1121	234.00	484	335.00	183
68.00	1129	154.00	817	235.00	929	336.00	134
69.00	70064	155.00	2696	236.00	618	338.00	114
70.00	616	156.00	3398	237.00	862	340.00	101
73.00	676	157.00	466	239.00	292	341.00	440
74.00	5926	158.00	586	240.00	524	342.00	223
75.00	9677	159.00	492	241.00	591	343.00	116
76.00	4823	160.00	1675	242.00	1095	346.00	1228
77.00	63808	161.00	2069	243.00	1560	347.00	386
78.00	4538	162.00	598	244.00	20856	351.00	453
79.00	3939	163.00	451	245.00	2099	352.00	1295
80.00	3344	164.00	474	246.00	4563	353.00	878
81.00	3657	165.00	2092	247.00	1035	354.00	778
82.00	832	166.00	1212	249.00	443	355.00	278

83.00	1382	167.00	9811	250.00	265	364.00	181
84.00	3471	168.00	4152	253.00	480	365.00	4440
85.00	1143	169.00	642	254.00	420	366.00	867
86.00	4504	171.00	542	255.00	105248	370.00	122
87.00	435	172.00	1124	256.00	16038	371.00	896
88.00	304	173.00	931	257.00	1209	372.00	2247
89.00	158	174.00	2310	258.00	6097	373.00	712
91.00	1340	175.00	3588	259.00	1063	375.00	159
92.00	1173	176.00	1243	260.00	641	377.00	196
93.00	8603	177.00	2037	261.00	219	383.00	625
94.00	795	178.00	771	263.00	285	384.00	629
95.00	168	179.00	5366	264.00	155	390.00	598
96.00	472	180.00	4120	265.00	2894	391.00	308
98.00	7464	181.00	1914	266.00	303	402.00	1094
99.00	5409	182.00	311	269.00	114	403.00	1503
100.00	430	183.00	282	270.00	179	404.00	678
101.00	2086	184.00	357	272.00	721	408.00	173
103.00	932	185.00	2430	273.00	3287	415.00	107
104.00	1995	186.00	20656	274.00	7399	416.00	325
105.00	1494	187.00	6442	275.00	42464	421.00	1302
106.00	657	188.00	1022	276.00	4079	422.00	469
107.00	22184	189.00	1106	277.00	3072	423.00	5654
108.00	3320	190.00	211	278.00	475	424.00	1440
109.00	718	191.00	821	279.00	478	425.00	768
110.00	42776	192.00	1902	282.00	81	426.00	103
111.00	6070	193.00	2686	283.00	330	427.00	133
112.00	1110	194.00	981	284.00	301	428.00	129
113.00	176	195.00	124	285.00	751	433.00	276
116.00	911	196.00	4948	288.00	79	441.00	23616
117.00	16448	197.00	472	289.00	98	442.00	146560
118.00	1346	198.00	167424	290.00	260	443.00	26328
119.00	365	199.00	11155	291.00	144	444.00	2240
120.00	505	200.00	725	292.00	185	500.00	141
121.00	127	201.00	1208	293.00	539	531.00	80
122.00	896	203.00	671	294.00	169	536.00	109
123.00	1534	204.00	6791	295.00	85		
124.00	533	205.00	8931	296.00	12373		
125.00	886	206.00	45888	297.00	2115		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JUN-2013 11:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1562005
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

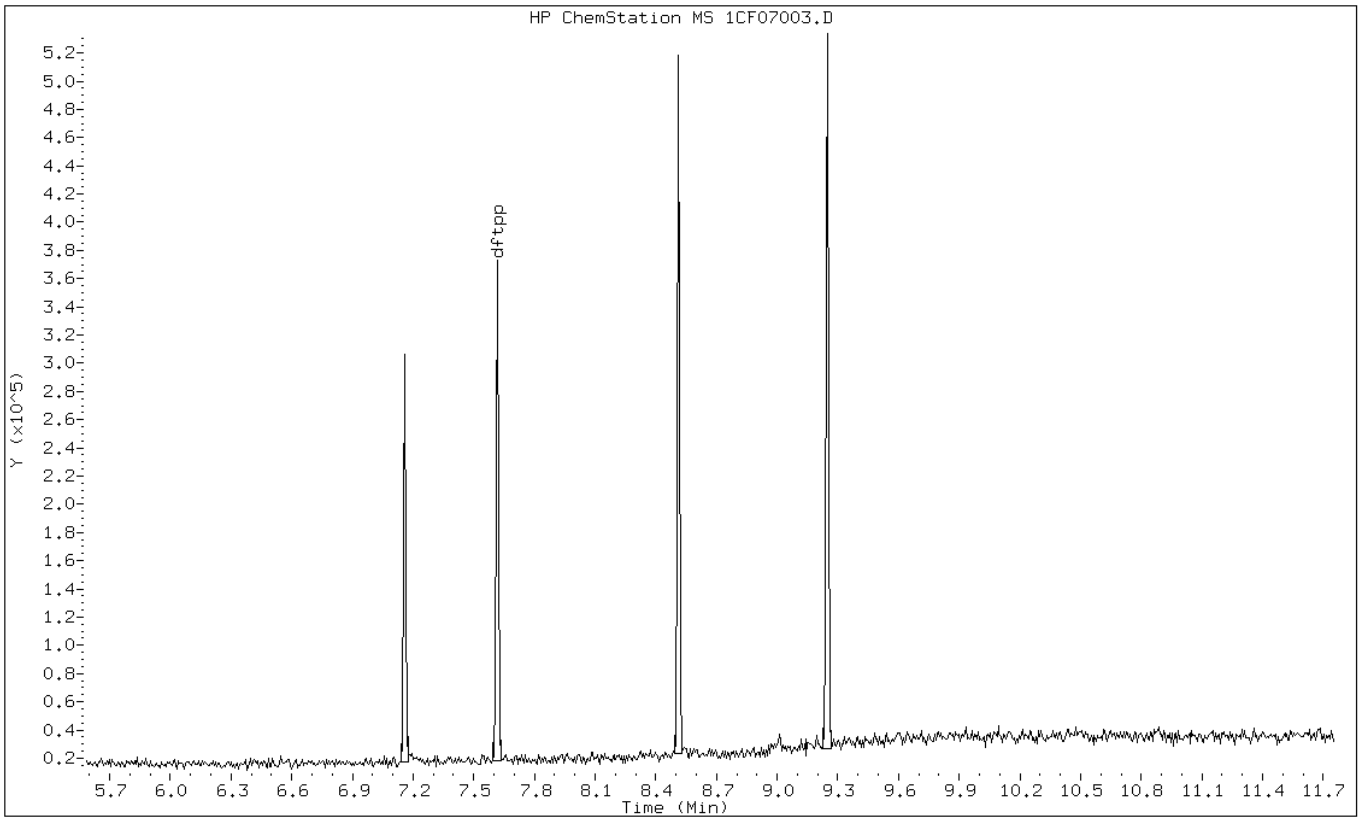
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.615	7.669	-0.054	198	22984			50.00- 0.00	100.00
7.615	7.669	-0.054	51	10838			10.00- 80.00	47.15
7.615	7.669	-0.054	68	0	0.0	0.0	0.00- 2.00	0.00
7.615	7.669	-0.054	69	14263			0.00- 0.00	62.06
7.615	7.669	-0.054	70	0	0.0	0.0	0.00- 2.00	0.00
7.615	7.669	-0.054	127	10781			10.00- 80.00	46.91
7.615	7.669	-0.054	197	0	0.0	0.0	0.00- 2.00	0.00
7.615	7.669	-0.054	442	14843			50.00- 0.00	64.58
7.615	7.669	-0.054	199	1381			5.00- 9.00	6.01
7.615	7.669	-0.054	275	4697			10.00- 60.00	20.44
7.615	7.669	-0.054	365	1439			1.00- 0.00	6.26
7.615	7.669	-0.054	441	2910			0.01- 99.99	90.12
7.615	7.669	-0.054	443	3229			15.00- 24.00	21.75

Data File: 1CF07003.D

Date: 07-JUN-2013 11:30

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1562005 Operator: SCC



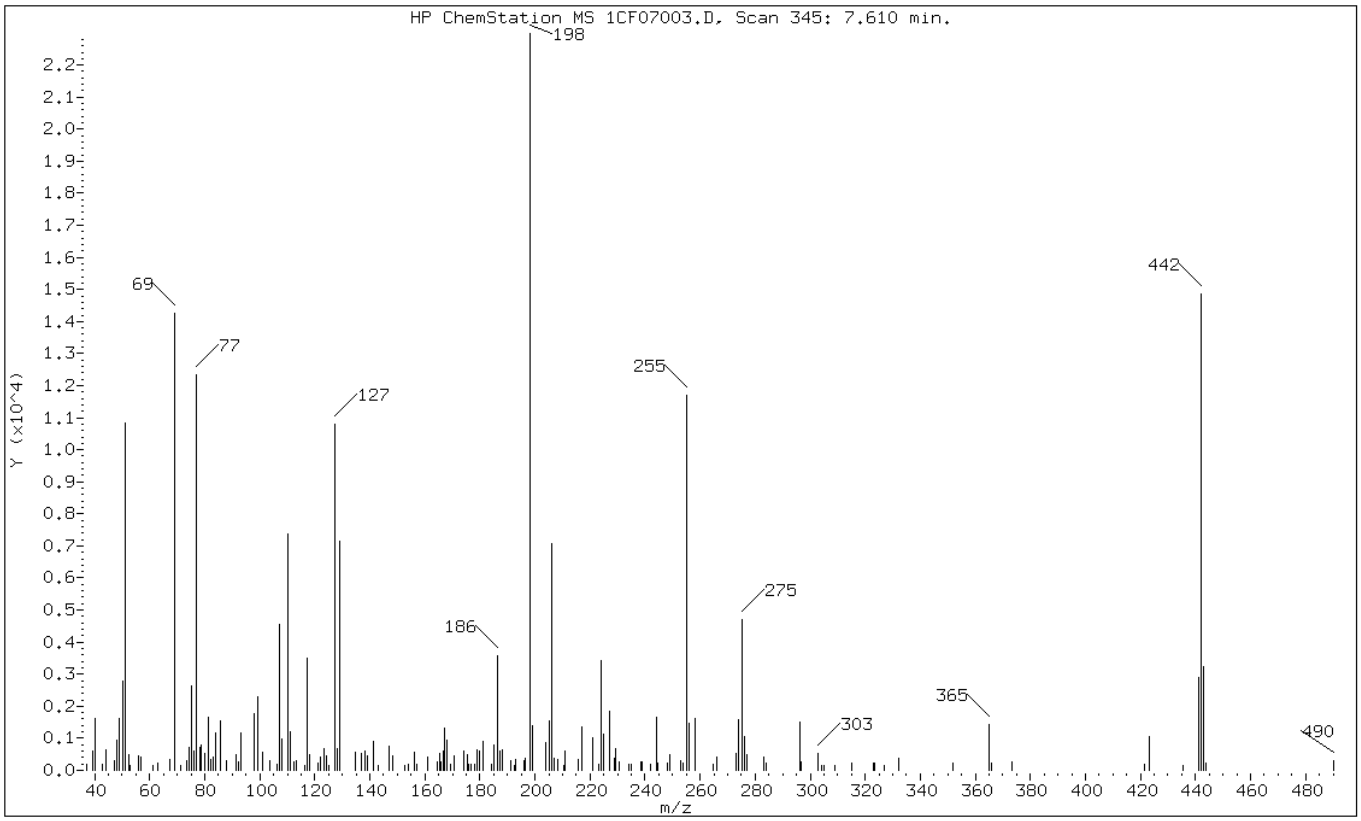
Data File: 1CF07003.D

Date: 07-JUN-2013 11:30

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1562005 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	47.15
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	62.06
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.58
199	5.00 - 9.00% of mass 198	6.01
275	10.00 - 60.00% of mass 198	20.44
365	Greater than 1.00% of mass 198	6.26
441	Present, but less than mass 443	12.66
443	15.00 - 24.00% of mass 442	14.05 (21.75)

Data File: 1CF07003.D

Date: 07-JUN-2013 11:30

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1562005 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07003.D
Spectrum: HP ChemStation MS 1CF07003.D, Scan 345: 7.610 min.
Location of Maximum: 198.00
Number of points: 162

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	202	107.20	4547	176.60	174	247.90	212
39.10	617	108.10	980	178.00	201	249.00	496
40.10	1607	110.00	7384	178.80	637	252.90	317
43.00	189	111.10	1191	180.00	614	253.70	225
44.10	650	112.20	255	181.20	910	255.10	11691
47.00	297	113.10	304	184.20	184	256.00	1482
48.10	939	116.20	156	185.20	781	258.00	1622
49.00	1604	117.00	3499	186.20	3565	264.80	189
50.10	2777	118.10	478	187.20	603	266.10	430
51.20	10838	121.10	220	188.10	655	273.20	542
52.40	473	122.10	402	191.20	308	274.10	1583
53.00	154	123.20	673	192.70	150	275.10	4697
56.10	436	124.10	444	193.10	327	276.10	1066
56.90	420	125.10	167	195.90	295	277.10	499
61.10	166	127.10	10781	196.40	360	283.10	421
63.00	222	128.00	692	198.00	22984	284.20	220
67.20	337	129.10	7166	199.00	1381	296.10	1512
69.10	14263	134.90	583	204.10	850	296.70	266
71.20	161	137.00	519	205.20	1558	303.00	523
73.30	304	138.30	596	206.10	7074	304.30	163
74.20	731	139.00	457	207.10	359	305.10	152
75.00	2636	141.10	910	208.10	327	309.10	166
76.10	586	143.20	157	210.40	161	315.00	220
77.10	12344	147.20	764	211.00	587	322.80	226
78.10	699	148.10	440	215.90	344	323.20	244
78.90	778	152.80	163	217.10	1348	326.80	165
79.90	513	154.10	188	221.10	1002	332.10	385
81.10	1666	156.10	577	223.00	200	352.00	208
82.10	334	156.90	192	224.10	3415	365.00	1439
83.20	408	161.10	404	224.90	1132	365.90	226
84.00	1161	164.70	267	227.00	1845	373.10	259
85.80	1560	165.30	542	228.70	382	421.30	187
87.90	298	166.00	273	229.20	684	423.10	1043
91.20	505	166.50	609	230.80	270	435.50	161
92.30	257	167.10	1330	233.90	204	441.10	2910
93.20	1157	168.00	942	235.00	198	442.10	14843
98.10	1764	169.20	178	238.30	246	443.10	3229
99.10	2303	170.70	466	239.00	259	444.00	239
101.20	559	174.10	594	241.90	177	490.20	289
103.80	290	175.30	490	244.00	1671		

106.10 180	175.90 205	244.70 215	

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-MAY-2013 11:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.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

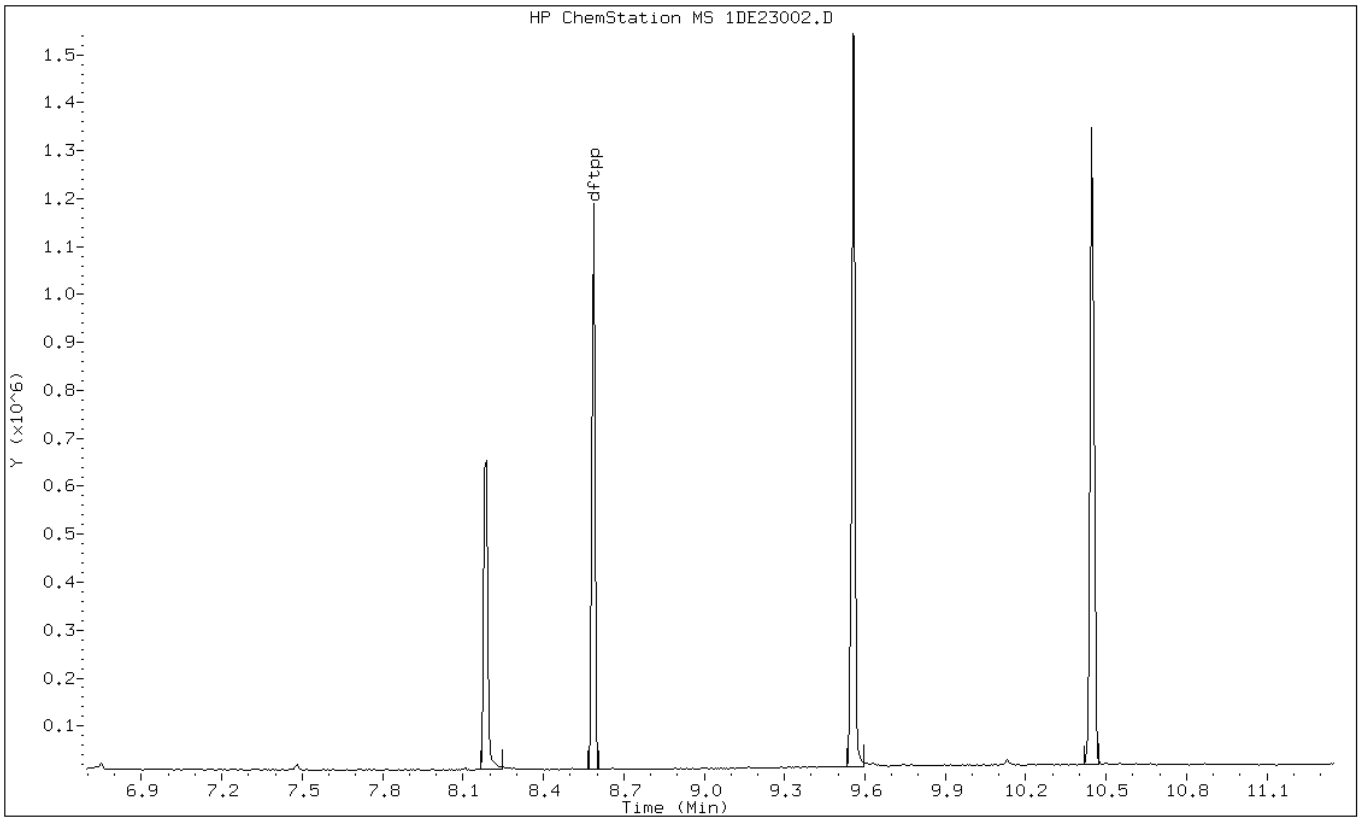
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.587	8.532	0.055	198	121784			50.00- 0.00	100.00
8.587	8.532	0.055	51	67440			10.00- 80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	69	65104			0.00- 0.00	53.46
8.587	8.532	0.055	70	565			0.00- 2.00	0.87
8.587	8.532	0.055	127	68776			10.00- 80.00	56.47
8.587	8.532	0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	442	65752			50.00- 0.00	53.99
8.587	8.532	0.055	199	8068			5.00- 9.00	6.62
8.587	8.532	0.055	275	31712			10.00- 60.00	26.04
8.587	8.532	0.055	365	4846			1.00- 0.00	3.98
8.587	8.532	0.055	441	9492			0.01- 99.99	78.47
8.587	8.532	0.055	443	12096			15.00- 24.00	18.40

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



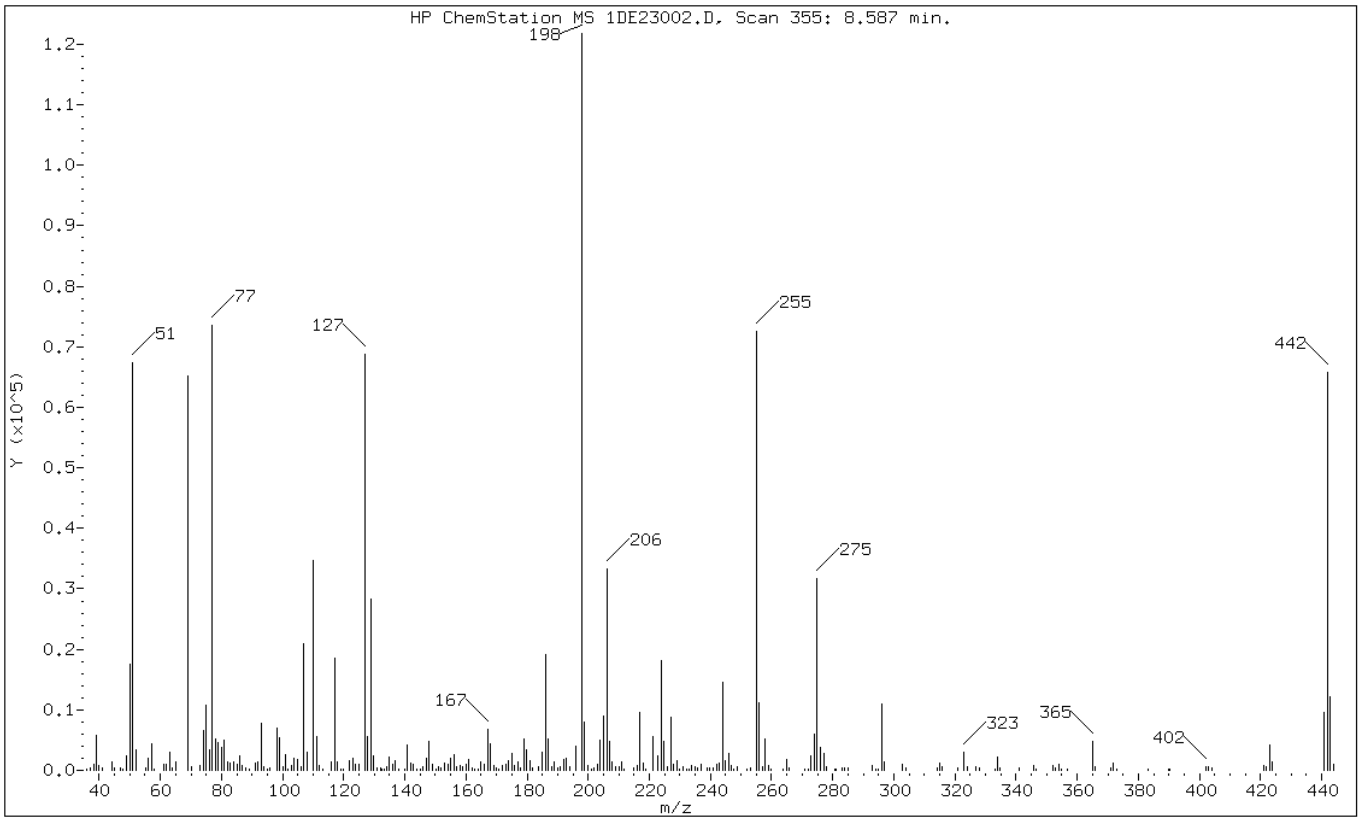
Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

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	55.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.46
70	Less than 2.00% of mass 69	0.46 (0.87)
127	10.00 - 80.00% of mass 198	56.47
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.99
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	26.04
365	Greater than 1.00% of mass 198	3.98
441	Present, but less than mass 443	7.79
443	15.00 - 24.00% of mass 442	9.93 (18.40)

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052313_pahIC.b\1DE23002.D
Spectrum: HP ChemStation MS 1DE23002.D, Scan 355: 8.587 min.
Location of Maximum: 197.90
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	249	117.90	1357	186.00	19144	263.70	171
37.10	370	118.90	263	186.90	5217	264.90	1873
38.10	973	120.00	223	187.90	612	265.80	383
39.00	5723	121.90	1665	188.90	1329	271.00	186
40.00	747	122.90	2073	189.90	307	271.90	293
41.00	364	124.00	1000	191.00	596	272.90	2302
44.00	1452	125.00	929	191.90	1822	273.90	5948
45.10	334	127.00	68776	192.90	2065	274.90	31712
46.90	480	127.90	5565	194.00	565	275.90	3785
47.80	238	128.90	28208	195.90	3944	277.00	2800
49.00	2358	129.90	2448	197.90	121784	277.90	659
50.00	17600	131.10	380	198.90	8068	280.80	191
51.00	67440	132.00	342	199.90	824	281.10	192
52.00	3328	132.60	152	201.10	276	283.00	400
55.10	409	133.10	215	201.70	467	283.90	307
56.00	2025	133.90	654	203.00	968	284.90	387
57.00	4381	134.90	2109	203.90	5020	293.00	825
58.00	217	136.00	922	205.00	9032	294.00	151
61.00	1013	136.90	1647	206.00	33240	294.90	243
62.00	913	138.00	265	207.00	4794	295.90	11046
63.00	2951	139.90	239	207.90	1427	296.90	1346
64.00	397	140.90	4179	208.80	681	302.90	926
65.00	1343	141.90	1118	210.00	552	304.00	330
69.00	65104	142.90	1031	210.90	1454	314.10	375
70.00	565	144.00	240	211.80	223	314.90	1098
73.00	790	145.10	221	214.90	414	315.90	571
74.00	6651	145.90	520	216.00	838	320.90	352
75.00	10782	147.00	2016	216.90	9622	323.00	2997
76.00	3422	148.00	4753	217.90	1129	323.90	666
77.00	73512	148.90	1096	218.80	154	326.80	600
78.00	5136	150.10	273	221.00	5672	328.00	304
79.00	4645	150.90	581	222.90	2421	333.00	236
80.00	3799	151.70	317	224.00	18232	333.90	2273
81.00	4928	152.90	1222	224.90	4829	334.90	490
82.00	1382	154.00	956	226.00	615	341.00	350
82.90	1163	155.00	1904	226.90	8729	345.80	800
83.90	1444	156.00	2641	227.90	1012	346.70	161
85.00	909	157.00	572	228.90	1680	351.90	800
85.90	2381	158.00	809	229.80	268	352.80	433
86.90	728	159.00	666	230.90	693	354.00	1029

87.90	331	160.00	933	232.10	157	354.90	170
89.00	285	160.90	1756	233.00	179	356.90	162
91.00	1150	162.00	462	233.90	756	365.00	4846
91.90	1474	162.80	203	235.00	558	365.90	560
92.90	7822	164.10	158	235.90	487	371.10	322
93.90	567	164.90	1406	236.90	950	371.90	1258
94.90	179	166.00	940	238.90	325	372.80	192
96.00	396	167.00	6772	239.80	300	373.10	180
98.00	6996	167.90	4389	241.00	416	383.10	221
98.90	5360	169.00	764	242.00	904	390.00	192
100.00	551	170.00	342	242.90	1190	390.30	165
100.90	2607	170.80	216	244.00	14621	402.00	625
101.90	286	171.90	754	244.90	1630	402.80	604
102.90	815	172.90	903	245.90	2736	403.90	416
103.90	1983	174.00	1510	246.90	832	420.90	877
105.00	1804	175.00	2756	247.70	160	422.00	504
106.00	509	175.90	753	248.90	508	422.90	4151
107.00	20912	177.00	1365	252.10	158	423.90	1358
107.90	2991	177.90	464	253.00	393	440.90	9492
109.90	34672	178.90	5168	254.90	72544	441.90	65752
111.00	5529	179.90	3472	255.90	11148	442.90	12096
111.90	765	180.90	1571	257.00	697	443.90	1083
113.00	248	181.90	303	257.90	5230		
116.00	1418	183.90	514	258.90	884		
117.00	18560	185.00	2991	260.00	157		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JUN-2013 11:23
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1562005
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\d-dftpp198.m
Meth Date : 08-Jan-2013 16:28 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	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.564	8.532	0.032	198	20616			50.00- 0.00	100.00
8.564	8.532	0.032	51	6933			10.00- 80.00	33.63
8.564	8.532	0.032	68	0	0.0	0.0	0.00- 2.00	0.00
8.564	8.532	0.032	69	6589			0.00- 0.00	31.96
8.564	8.532	0.032	70	0	0.0	0.0	0.00- 2.00	0.00
8.564	8.532	0.032	127	9298			10.00- 80.00	45.10
8.564	8.532	0.032	197	0	0.0	0.0	0.00- 2.00	0.00
8.564	8.532	0.032	442	18696			50.00- 0.00	90.69
8.564	8.532	0.032	199	1534			5.00- 9.00	7.44
8.564	8.532	0.032	275	5896			10.00- 60.00	28.60
8.564	8.532	0.032	365	1013			1.00- 0.00	4.91
8.564	8.532	0.032	441	2725			0.01- 99.99	68.42
8.564	8.532	0.032	443	3983			15.00- 24.00	21.30

Data File: 1DF07002.D

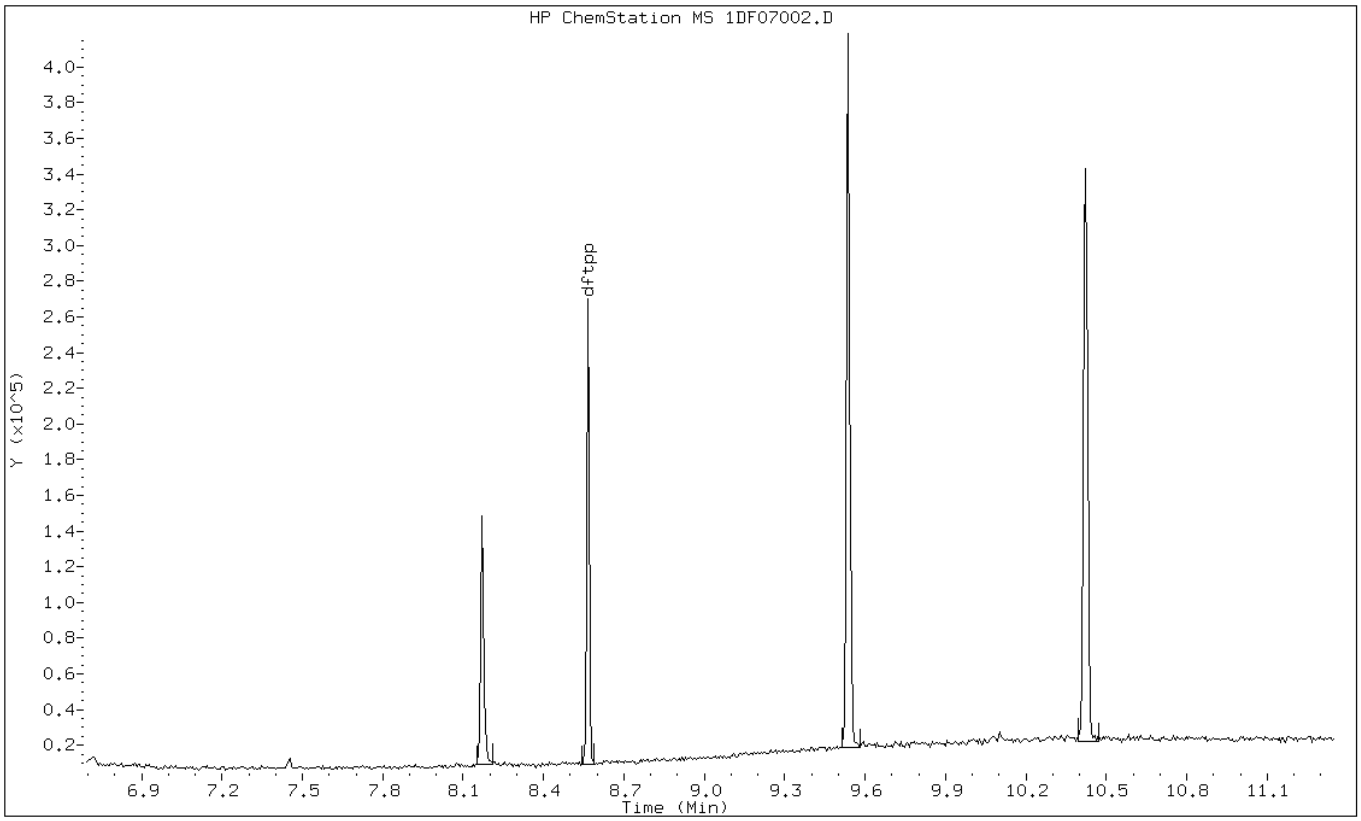
Date: 07-JUN-2013 11:23

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

Operator: SCC



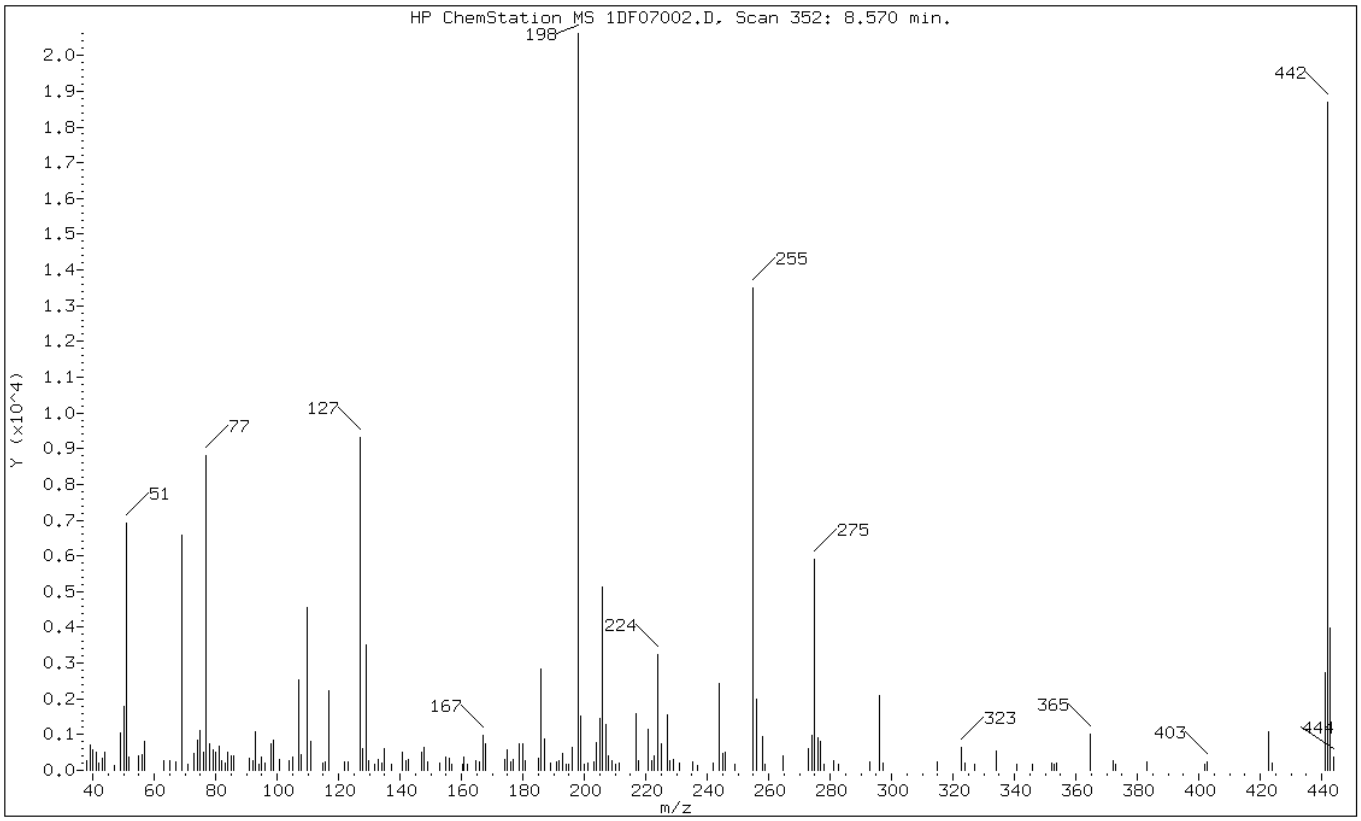
Data File: 1DF07002.D

Date: 07-JUN-2013 11:23

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1562005 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	33.63
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	31.96
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.10
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	90.69
199	5.00 - 9.00% of mass 198	7.44
275	10.00 - 60.00% of mass 198	28.60
365	Greater than 1.00% of mass 198	4.91
441	Present, but less than mass 443	13.22
443	15.00 - 24.00% of mass 442	19.32 (21.30)

Data File: 1DF07002.D

Date: 07-JUN-2013 11:23

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1562005 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07002.D
Spectrum: HP ChemStation MS 1DF07002.D, Scan 352: 8.570 min.
Location of Maximum: 197.90
Number of points: 166

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	268	100.90	300	178.90	751	246.00	522
39.00	718	104.00	254	179.80	756	249.00	177
40.00	572	105.00	362	180.90	260	254.90	13500
41.00	490	106.90	2532	184.90	351	255.90	2002
42.10	206	107.80	448	186.00	2827	258.00	954
43.00	338	109.90	4571	186.90	881	258.90	185
44.00	506	110.90	811	188.90	213	264.80	421
47.00	151	115.00	195	191.00	227	272.90	620
49.00	1031	115.80	232	191.90	274	274.00	993
50.10	1777	116.90	2239	192.90	467	274.90	5896
51.00	6933	121.90	252	194.00	173	275.90	909
51.90	379	123.00	235	194.90	163	276.90	820
55.00	412	126.90	9298	196.00	629	278.00	174
56.00	422	127.90	609	197.90	20616	281.00	274
56.90	812	129.00	3498	198.90	1534	282.90	179
63.00	258	129.90	265	199.90	158	292.90	221
65.00	266	131.90	185	201.30	209	295.90	2086
67.00	237	133.00	300	203.10	222	297.10	188
68.90	6589	134.10	206	203.90	774	314.90	233
71.00	170	135.00	597	205.00	1441	322.90	636
72.90	479	137.10	163	206.00	5139	324.00	199
73.90	843	140.90	496	207.00	1296	326.90	155
75.00	1100	141.80	261	208.00	403	333.90	550
75.90	499	142.90	301	209.00	269	340.80	167
77.00	8820	146.90	516	210.00	164	345.80	175
77.90	727	148.00	649	211.20	218	352.10	213
79.00	558	149.00	223	216.90	1594	352.80	182
80.00	519	153.00	212	217.80	277	353.80	219
81.00	685	155.00	373	220.90	1132	364.80	1013
82.00	267	156.10	330	221.90	281	372.00	258
83.10	215	156.90	159	222.90	411	372.90	160
83.90	519	160.20	183	224.00	3229	383.00	234
85.00	390	160.90	383	224.90	747	402.00	179
85.80	403	161.90	174	226.90	1538	402.90	238
90.90	322	164.80	273	228.00	278	422.90	1078
92.00	261	165.90	239	228.90	300	423.90	204
93.00	1082	166.90	970	230.90	209	441.00	2725
93.90	156	167.90	744	235.10	233	441.90	18696
94.90	364	173.90	301	236.90	150	442.90	3983
95.90	199	175.00	559	241.90	194	443.90	362

	97.90	753	175.90	251	244.00	2422	
	98.90	830	176.90	292	245.00	463	

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 11-JUN-2013 11:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1546763
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.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

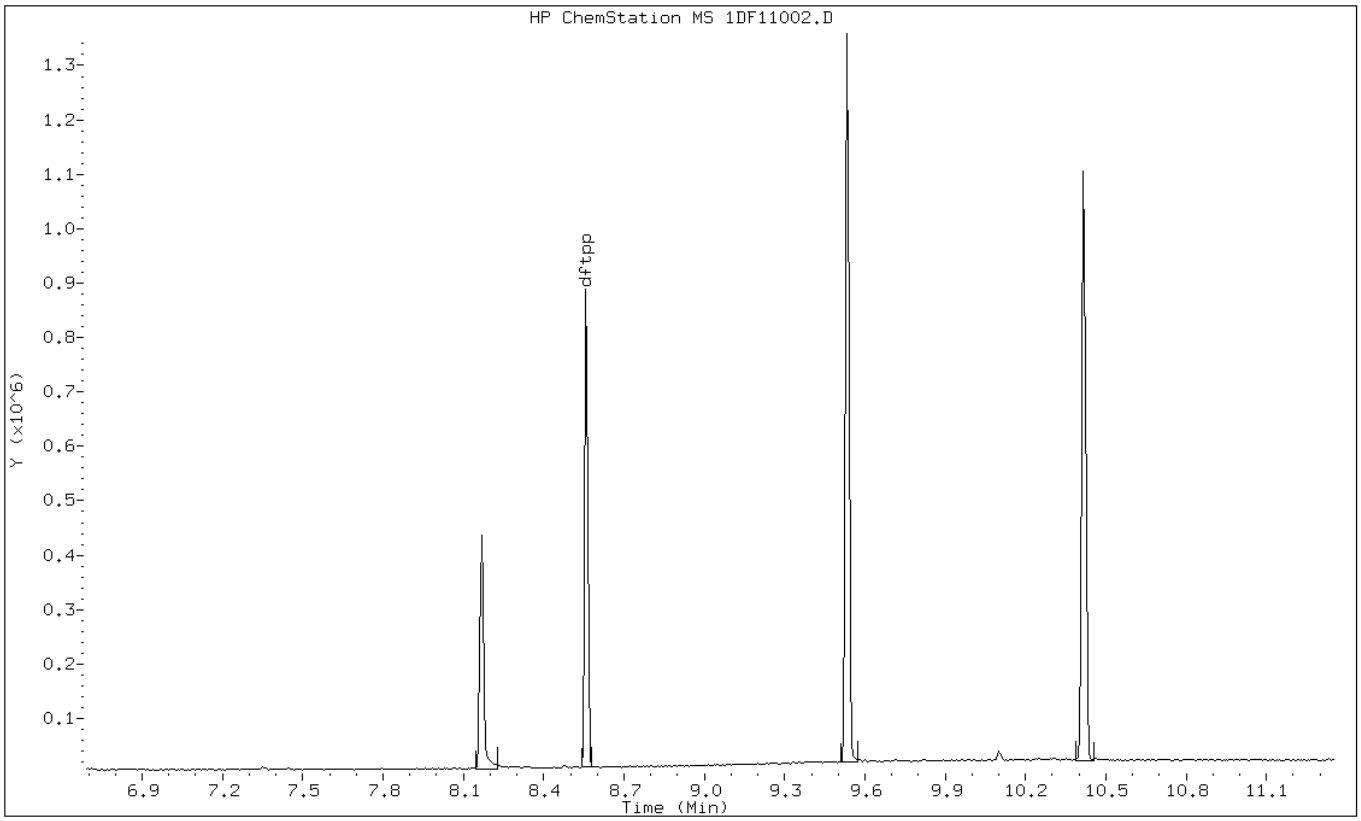
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.557	8.532	0.025	198	80288			50.00- 0.00	100.00
8.557	8.532	0.025	51	28336			10.00- 80.00	35.29
8.557	8.532	0.025	68	0	0.0	0.0	0.00- 2.00	0.00
8.557	8.532	0.025	69	30072			0.00- 0.00	37.46
8.557	8.532	0.025	70	375			0.00- 2.00	1.25
8.557	8.532	0.025	127	38064			10.00- 80.00	47.41
8.557	8.532	0.025	197	0	0.0	0.0	0.00- 2.00	0.00
8.557	8.532	0.025	442	71112			50.00- 0.00	88.57
8.557	8.532	0.025	199	5159			5.00- 9.00	6.43
8.557	8.532	0.025	275	23768			10.00- 60.00	29.60
8.557	8.532	0.025	365	3676			1.00- 0.00	4.58
8.557	8.532	0.025	441	10694			0.01- 99.99	77.10
8.557	8.532	0.025	443	13871			15.00- 24.00	19.51

Data File: 1DF11002.D

Date: 11-JUN-2013 11:44

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1546763 Operator: SCC



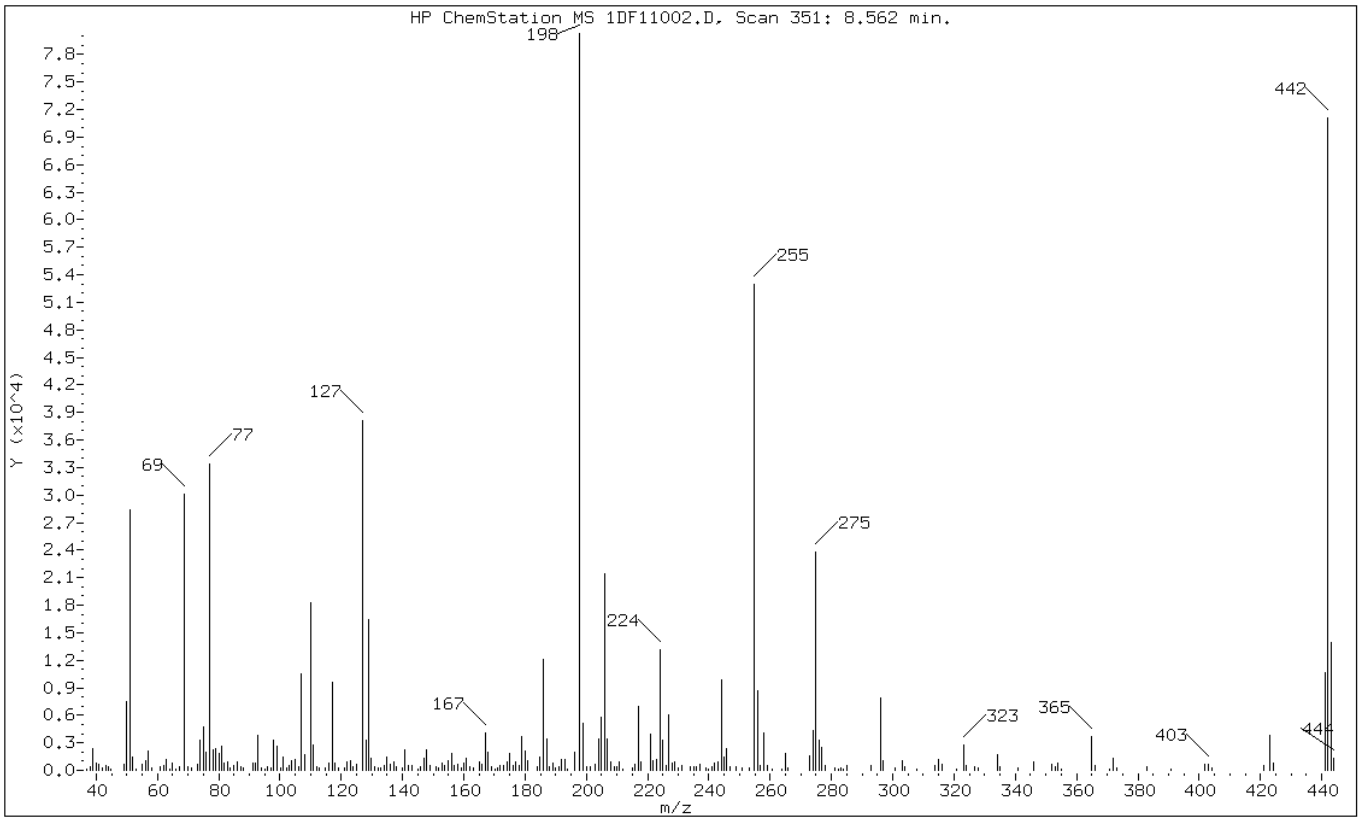
Data File: 1DF11002.D

Date: 11-JUN-2013 11:44

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1546763 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	35.29
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.46
70	Less than 2.00% of mass 69	0.47 (1.25)
127	10.00 - 80.00% of mass 198	47.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	88.57
199	5.00 - 9.00% of mass 198	6.43
275	10.00 - 60.00% of mass 198	29.60
365	Greater than 1.00% of mass 198	4.58
441	Present, but less than mass 443	13.32
443	15.00 - 24.00% of mass 442	17.28 (19.51)

Data File: 1DF11002.D

Date: 11-JUN-2013 11:44

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1546763 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11002.D
Spectrum: HP ChemStation MS 1DF11002.D, Scan 351: 8.562 min.
Location of Maximum: 197.90
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	165	109.90	18232	178.90	3634	256.90	584
38.10	383	110.90	2712	179.90	2055	257.90	4134
39.00	2399	111.90	385	180.90	1017	258.90	548
39.90	727	112.90	252	183.90	352	260.70	156
41.00	673	114.90	243	184.90	1454	263.90	176
41.90	250	115.90	739	186.00	12053	264.90	1831
43.00	472	117.00	9613	187.00	3467	265.90	244
44.00	378	117.90	813	187.90	395	272.90	1629
44.90	157	118.90	210	189.00	781	273.90	4397
49.00	612	120.90	198	189.90	207	274.90	23768
50.00	7538	122.00	910	191.10	345	275.90	3294
51.00	28336	122.90	1045	191.90	1247	276.90	2497
52.00	1440	123.90	368	192.90	1188	278.00	481
53.10	151	125.00	602	193.90	184	281.00	256
55.00	689	127.00	38064	196.00	2030	282.10	195
56.00	1014	128.00	3290	197.90	80288	282.90	307
57.00	2132	128.90	16372	198.90	5159	284.00	157
58.00	201	129.90	1348	199.90	401	284.90	466
60.90	430	131.00	382	201.40	375	292.90	495
61.90	535	131.90	224	202.90	640	295.90	7908
63.00	1228	133.00	268	203.90	3430	296.90	1100
64.10	177	133.90	513	205.00	5739	300.90	209
65.00	767	135.00	1439	206.00	21400	303.00	1098
66.00	155	135.90	661	206.90	3390	304.00	352
67.00	387	137.00	898	207.90	958	308.00	155
68.90	30072	137.90	348	209.00	333	313.90	512
69.90	375	139.80	270	210.00	447	315.00	1125
71.10	215	140.90	2244	210.90	864	316.00	640
72.90	702	142.00	480	212.00	190	320.70	159
74.00	3265	142.90	567	214.90	325	323.00	2777
74.90	4781	145.00	160	215.90	614	324.00	539
76.00	1990	145.80	407	216.90	6919	326.90	454
77.00	33312	147.00	1344	217.90	878	328.00	327
78.10	2279	147.90	2230	221.00	3968	334.00	1766
79.00	2391	148.90	547	221.80	1013	334.90	333
80.00	1889	151.10	349	223.00	1240	340.90	268
81.00	2689	151.80	283	223.90	13095	345.90	859
81.90	848	152.90	748	225.00	3261	352.00	684
83.00	910	153.80	468	226.00	492	353.00	454
83.80	304	154.90	1092	226.90	6062	354.00	731

84.90	544	155.90	1853	227.90	804	355.10	192
86.00	935	156.90	510	228.90	945	364.90	3676
87.10	356	157.90	593	229.90	248	365.90	547
87.90	220	159.00	304	231.00	524	370.80	178
91.00	772	159.90	770	233.90	418	371.90	1276
92.00	757	160.90	1260	235.00	344	373.00	210
92.90	3855	161.90	346	235.90	391	382.90	357
94.00	316	163.00	221	236.90	599	391.00	160
95.20	162	164.90	873	239.00	304	401.90	627
95.90	352	165.90	673	239.80	175	402.90	712
97.00	315	166.90	4098	240.90	432	404.00	276
98.00	3338	167.90	1976	241.90	833	420.90	557
99.00	2681	169.00	412	242.90	871	423.00	3826
100.10	207	170.10	163	244.00	9857	424.10	828
100.90	1496	171.00	268	245.00	1499	441.00	10694
102.20	211	171.90	465	245.90	2404	441.90	71112
102.90	463	172.90	543	247.00	438	443.00	13871
103.90	997	174.00	951	249.00	366	443.90	1356
104.80	1122	175.00	1779	250.90	210		
106.00	357	176.20	579	253.00	282		
107.00	10553	176.90	864	254.90	52960		
108.00	1655	177.90	510	255.90	8631		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: MB 660-138117/1-A

Matrix: Solid | Lab File ID: 1CF07007.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/05/2013 15:09

Sample wt/vol: 15.00(g) | Date Analyzed: 06/07/2013 12:51

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.: 138203 | 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	4.36	J	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07007.D
Lab Smp Id: mb 660-138117/1-a
Inj Date : 07-JUN-2013 12:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-138117/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 7 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	15.000	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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.033	4.033	(1.000)	1615824	40.0000	
* 6 Acenaphthene-d10	164	5.115	5.116	(1.000)	1184432	40.0000	
* 10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2383826	40.0000	
$ 14 o-Terphenyl	230	6.333	6.333	(1.041)	313410	8.43999	562.6658
* 18 Chrysene-d12	240	8.045	8.051	(1.000)	3282334	40.0000	
* 23 Perylene-d12	264	9.368	9.374	(1.000)	3172951	40.0000	
2 Naphthalene	128	4.045	4.045	(1.003)	1964	0.04307	2.8714
11 Phenanthrene	178	6.104	6.104	(1.003)	4603	0.06536	4.3571(M)
13 Carbazole	167	6.245	6.239	(1.026)	599	0.12467	8.3110(Q)
15 Fluoranthene	202	6.945	6.951	(1.141)	2300	0.03195	2.1300

QC Flag Legend

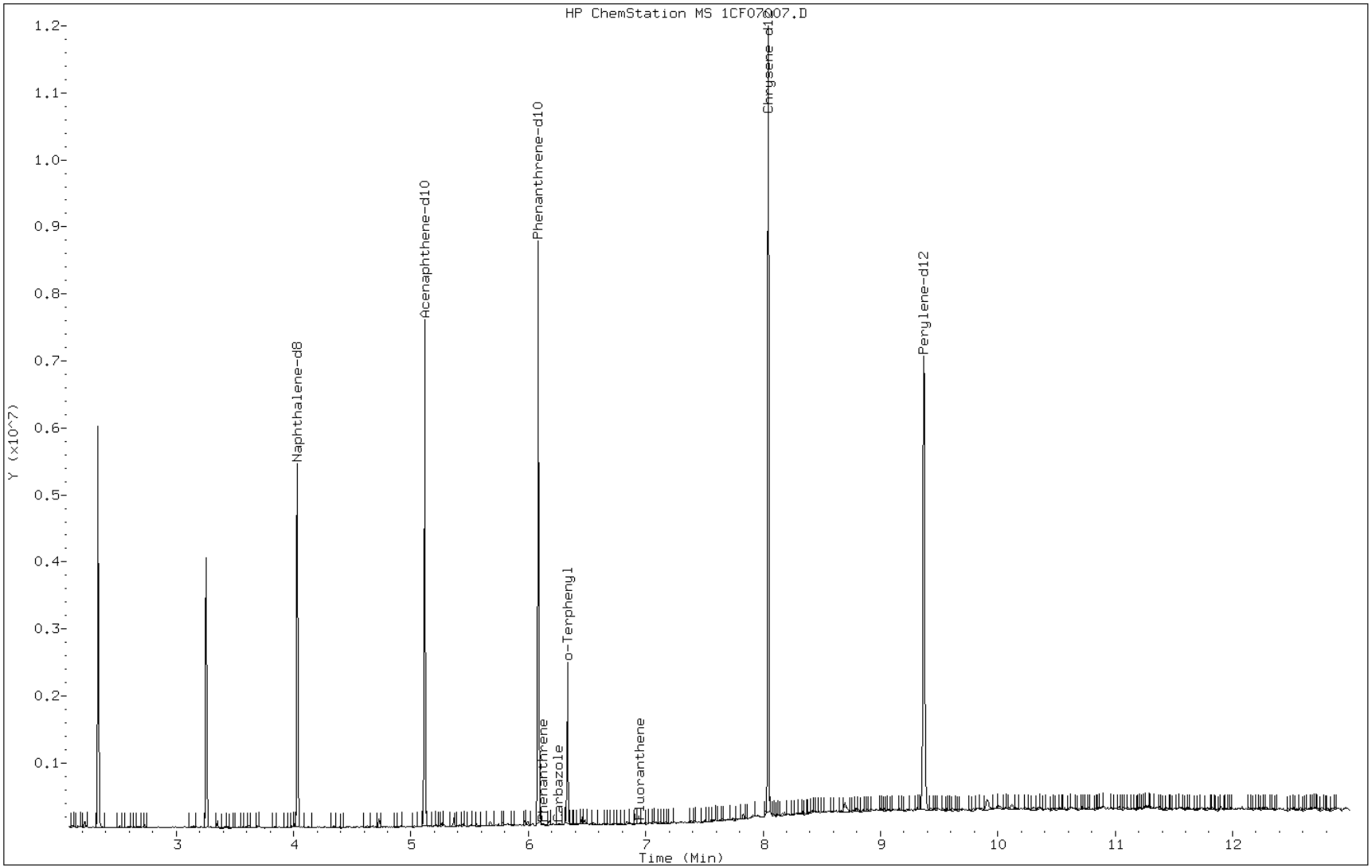
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07007.D

Date: 07-JUN-2013 12:51

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-138117/1-a Operator: SCC



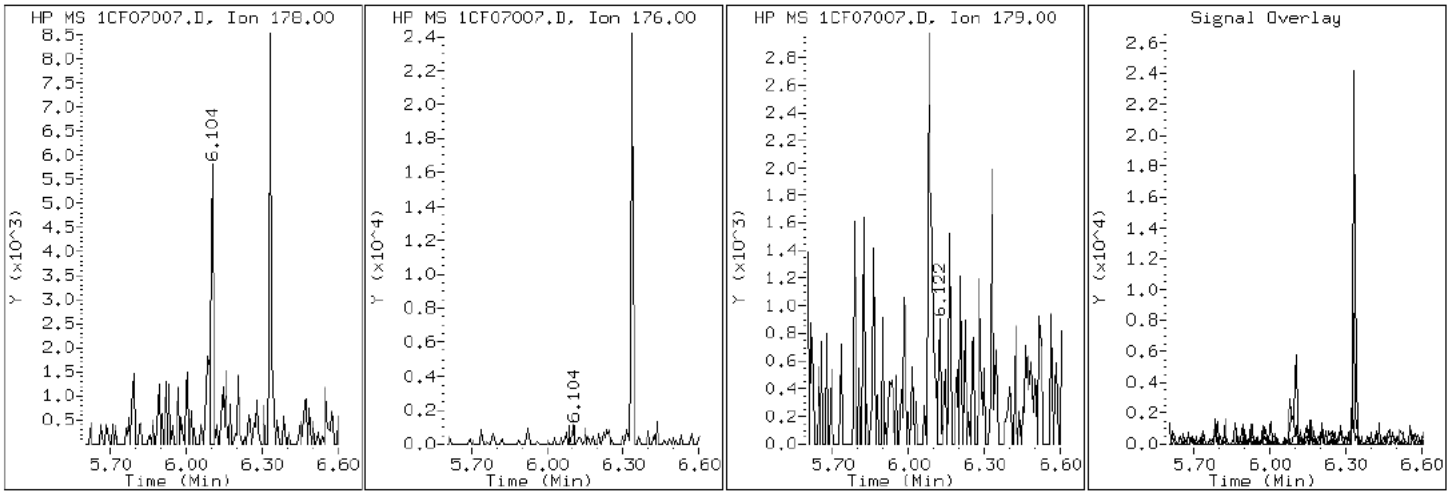
Data File: 1CF07007.D

Date: 07-JUN-2013 12:51

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-138117/1-a Operator: SCC

11 Phenanthrene



Manual Integration Report

Data File: 1CF07007.D
Inj. Date and Time: 07-JUN-2013 12:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 06/07/2013

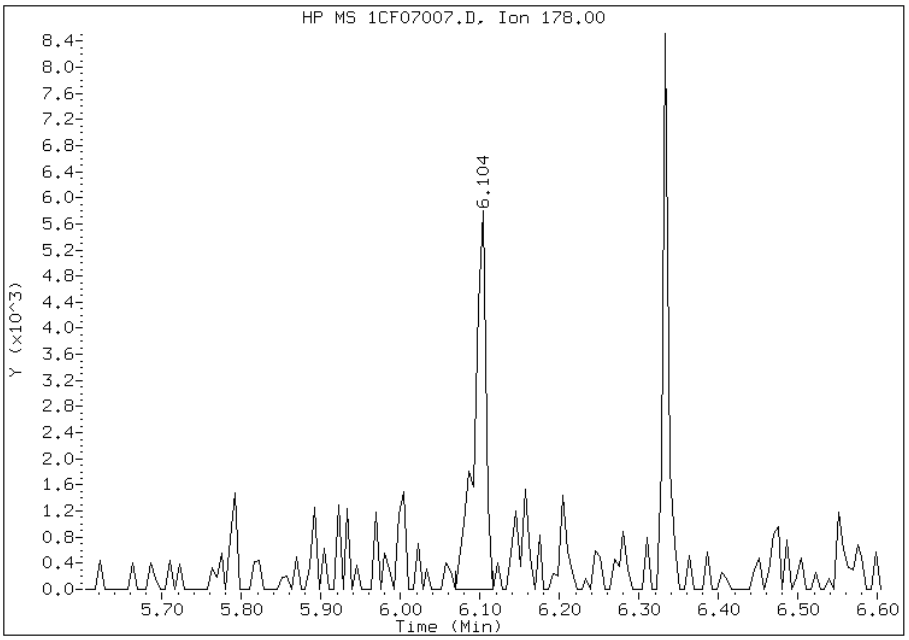
Processing Integration Results

RT: 6.10

Response: 5824

Amount: 0

Conc: 6



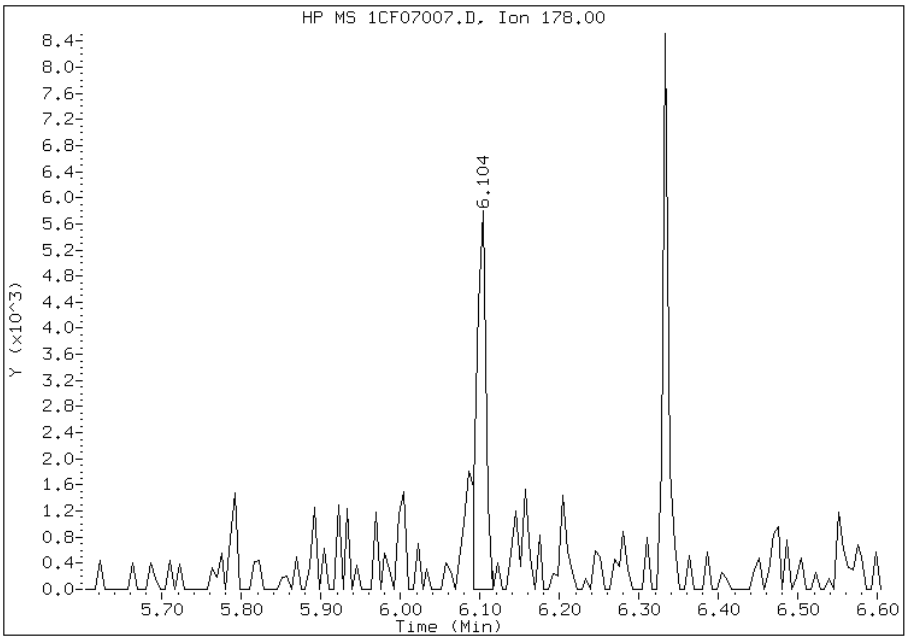
Manual Integration Results

RT: 6.10

Response: 4603

Amount: 0

Conc: 4



Manually Integrated By: cantins
Modification Date: 07-Jun-2013 13:05
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: MB 660-138156/1-A

Matrix: Solid | Lab File ID: 1DF07012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/06/2013 14:10

Sample wt/vol: 14.99(g) | Date Analyzed: 06/07/2013 15:23

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.: 138205 | 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	71		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07012.D
Lab Smp Id: MB 660-138156/1-A
Inj Date : 07-JUN-2013 15:23
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-138156/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 15 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	14.990	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	6.259	6.266	(1.000)	3705122	40.0000	
* 7 Acenaphthene-d10	164	7.934	7.935	(1.000)	2132330	40.0000	
* 11 Phenanthrene-d10	188	9.191	9.192	(1.000)	3368643	40.0000	
$ 15 o-Terphenyl	230	9.497	9.498	(1.033)	351480	7.12197	480
* 19 Chrysene-d12	240	11.553	11.554	(1.000)	3387293	40.0000	
* 24 Perylene-d12	264	13.457	13.458	(1.000)	3162996	40.0000	
12 Phenanthrene	178	9.209	9.210	(1.002)	3384	0.03709	2.5(Q)

QC Flag Legend

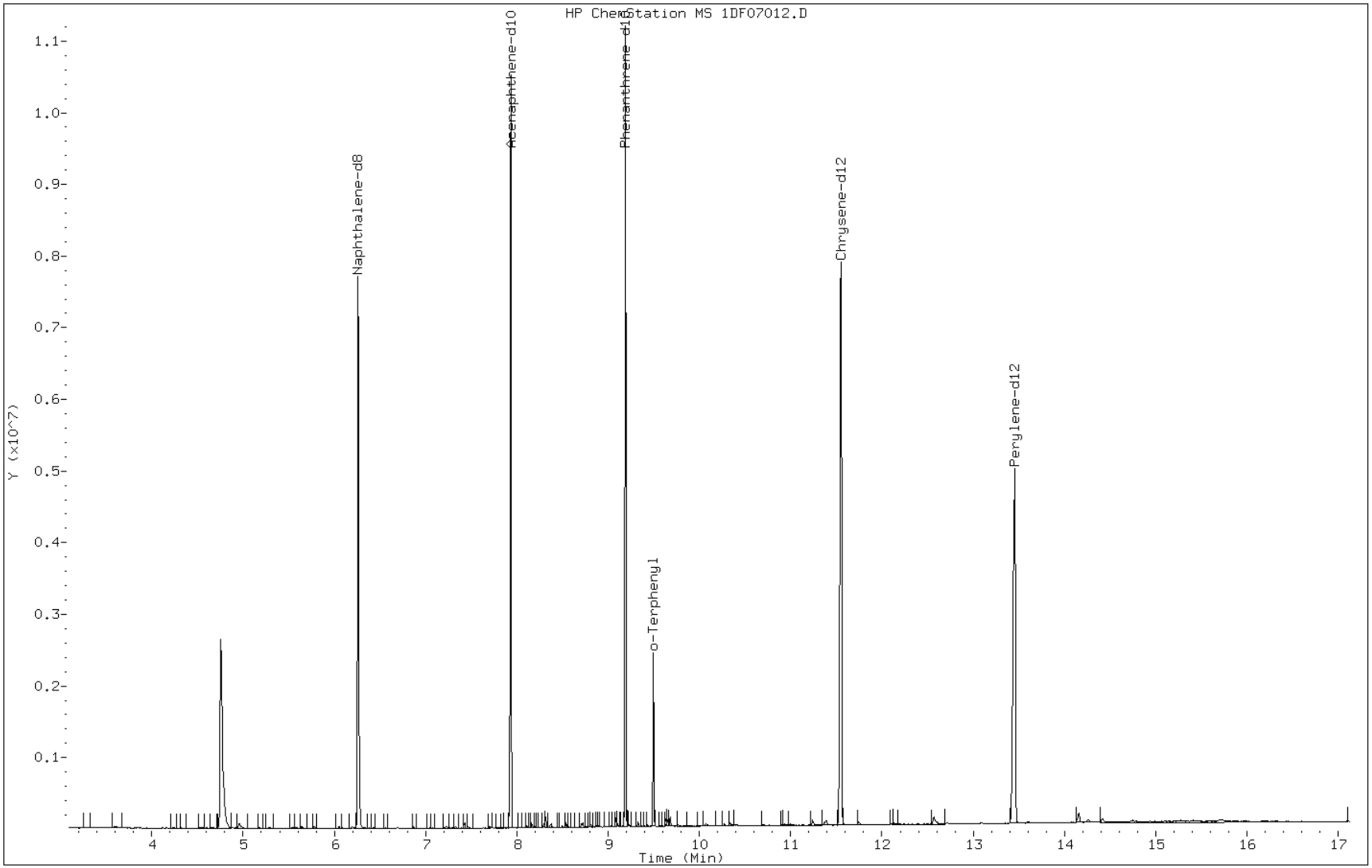
Q - Qualifier signal failed the ratio test.

Data File: 1DF07012.D

Date: 07-JUN-2013 15:23

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-138156/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: MB 660-138190/1-A

Matrix: Solid | Lab File ID: 1DF11005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.19(g) | Date Analyzed: 06/11/2013 12:45

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.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.3	U	8.3	4.1
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11005.D
Lab Smp Id: mb 660-138190/1-a
Inj Date : 11-JUN-2013 12:45
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-138190/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 5 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	15.190	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	6.256	6.260	(1.000)	3654869	40.0000	
* 7 Acenaphthene-d10	164	7.925	7.929	(1.000)	2224135	40.0000	
* 11 Phenanthrene-d10	188	9.188	9.192	(1.000)	3524277	40.0000	
$ 15 o-Terphenyl	230	9.494	9.497	(1.033)	429620	8.32087	550
* 19 Chrysene-d12	240	11.550	11.560	(1.000)	3660370	40.0000	
* 24 Perylene-d12	264	13.460	13.469	(1.000)	3242645	40.0000	
12 Phenanthrene	178	9.200	9.210	(1.001)	4246	0.04448	2.9(Q)

QC Flag Legend

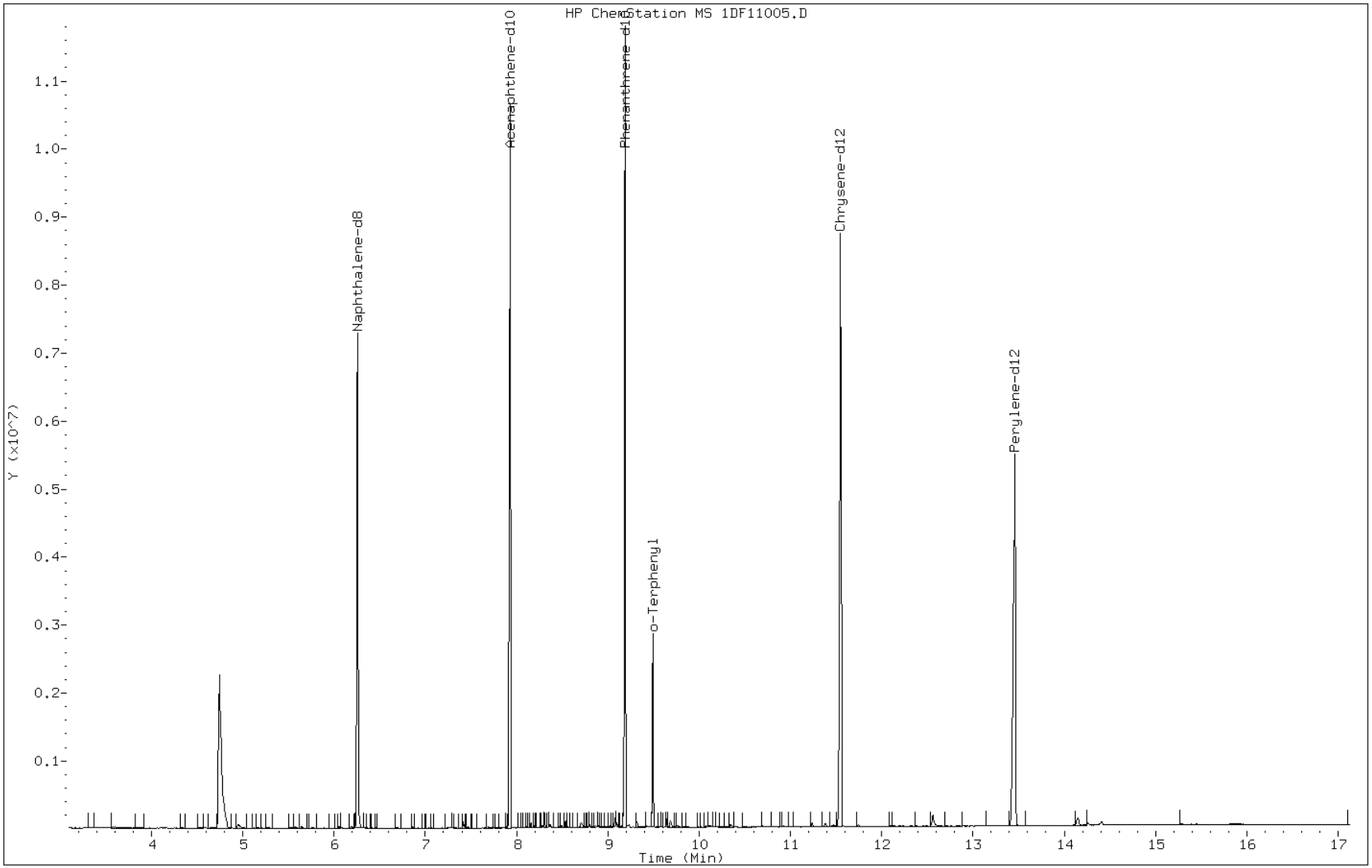
Q - Qualifier signal failed the ratio test.

Data File: 1DF11005.D

Date: 11-JUN-2013 12:45

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-138190/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: LCS 660-138117/2-A

Matrix: Solid | Lab File ID: 1CF07008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/05/2013 15:09

Sample wt/vol: 14.96(g) | Date Analyzed: 06/07/2013 13:10

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.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	575		100	20
208-96-8	Acenaphthylene	552		40	5.0
120-12-7	Anthracene	528		8.4	4.2
56-55-3	Benzo[a]anthracene	549		8.0	3.9
50-32-8	Benzo[a]pyrene	488		10	5.2
205-99-2	Benzo[b]fluoranthene	611		12	6.1
191-24-2	Benzo[g,h,i]perylene	480		20	4.4
207-08-9	Benzo[k]fluoranthene	525		8.0	3.6
218-01-9	Chrysene	481		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	532		20	4.1
206-44-0	Fluoranthene	630		20	4.0
86-73-7	Fluorene	586		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	456		20	7.1
90-12-0	1-Methylnaphthalene	534		40	4.4
91-57-6	2-Methylnaphthalene	574		40	7.1
91-20-3	Naphthalene	453		40	4.4
85-01-8	Phenanthrene	506		8.0	3.9
129-00-0	Pyrene	467		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07008.D
Lab Smp Id: lcs 660-138117/2-a
Inj Date : 07-JUN-2013 13:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-138117/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 8 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	14.960	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/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.033	4.033	(1.000)	1735722	40.0000	
*	6 Acenaphthene-d10	164	5.116	5.116	(1.000)	1218798	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2500830	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	332785	8.54246	571.0202
*	18 Chrysene-d12	240	8.051	8.051	(1.000)	3795207	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	3722094	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	331895	6.77587	452.9327
	3 2-Methylnaphthalene	142	4.469	4.468	(1.108)	233169	8.58225	573.6795
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	213439	7.98485	533.7465
	5 Acenaphthylene	152	5.033	5.033	(0.984)	385712	8.25522	551.8192
	7 Acenaphthene	154	5.139	5.139	(1.005)	252165	8.60627	575.2856
	9 Fluorene	166	5.463	5.463	(1.068)	327523	8.76063	585.6035
	11 Phenanthrene	178	6.098	6.104	(1.002)	559659	7.57472	506.3318
	12 Anthracene	178	6.133	6.139	(1.008)	540231	7.89236	527.5640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.239	6.239	(1.025)	498590	7.91376	528.9944
15 Fluoranthene	202	6.951	6.951	(1.142)	711370	9.41955	629.6487
16 Pyrene	202	7.121	7.121	(0.885)	716072	6.98727	467.0633
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	859587	8.21385	549.0543
19 Chrysene	228	8.068	8.068	(1.002)	757993	7.19400	480.8825
20 Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	835730	9.13866	610.8728
21 Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	802741	7.85923	525.3497
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	673592	7.30304	488.1713
24 Indeno(1,2,3-cd)pyrene	276	10.745	10.745	(1.146)	662918	6.81762	455.7230(M)
25 Dibenzo(a,h)anthracene	278	10.762	10.762	(1.148)	632809	7.96542	532.4478
26 Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	620550	7.17647	479.7108

QC Flag Legend

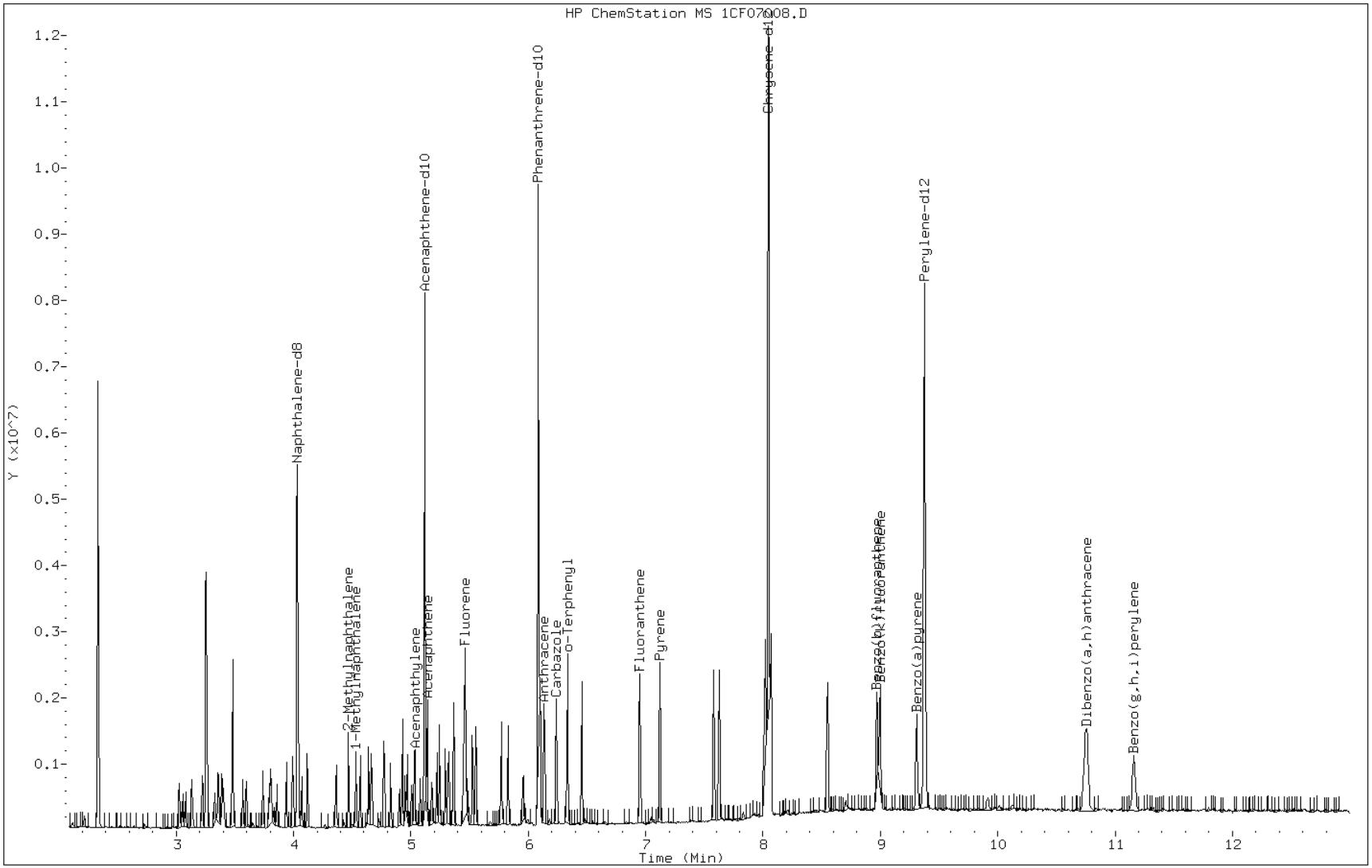
M - Compound response manually integrated.

Data File: 1CF07008.D

Date: 07-JUN-2013 13:10

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-138117/2-a Operator: SCC



Manual Integration Report

Data File: 1CF07008.D
Inj. Date and Time: 07-JUN-2013 13:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/07/2013

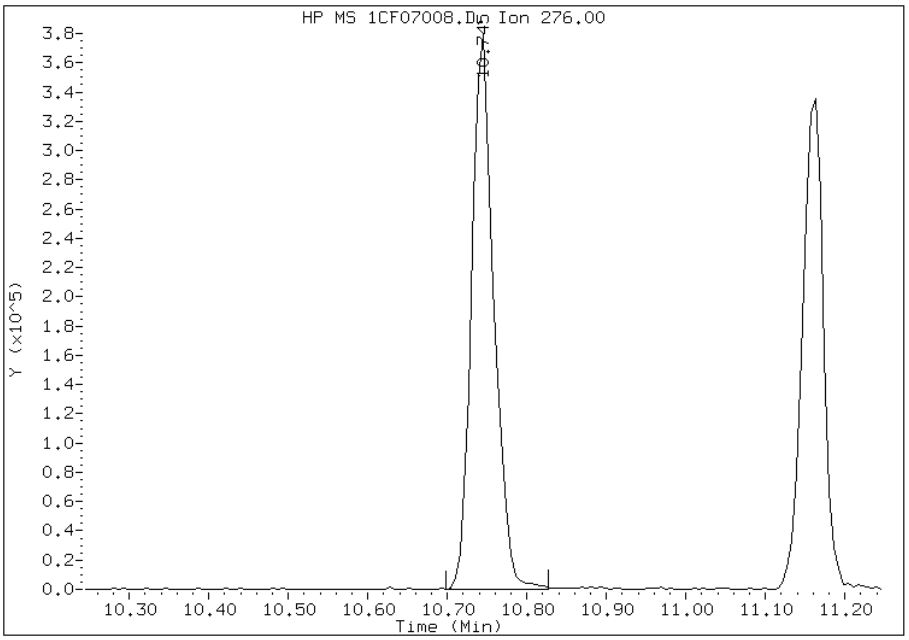
Processing Integration Results

RT: 10.75

Response: 734850

Amount: 8

Conc: 504



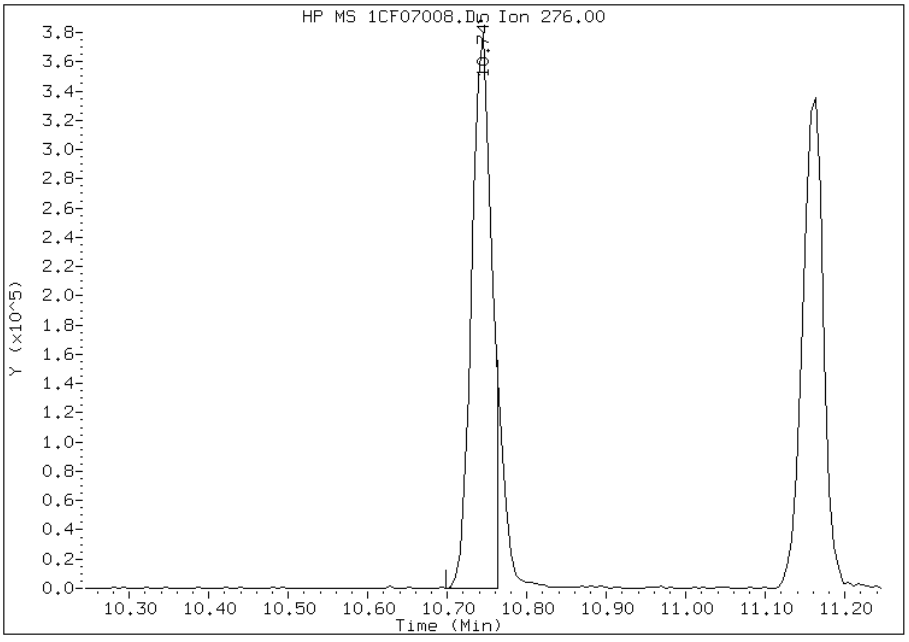
Manual Integration Results

RT: 10.75

Response: 662918

Amount: 7

Conc: 456



Manually Integrated By: cantins
Modification Date: 07-Jun-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: LCS 660-138156/2-A

Matrix: Solid | Lab File ID: 1DF07016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/06/2013 14:10

Sample wt/vol: 14.95(g) | Date Analyzed: 06/07/2013 16:54

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.: 138205 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	504		100	20
208-96-8	Acenaphthylene	551		40	5.0
120-12-7	Anthracene	555		8.4	4.2
56-55-3	Benzo[a]anthracene	486		8.0	3.9
50-32-8	Benzo[a]pyrene	496		10	5.2
205-99-2	Benzo[b]fluoranthene	541		12	6.1
191-24-2	Benzo[g,h,i]perylene	555		20	4.4
207-08-9	Benzo[k]fluoranthene	537		8.0	3.6
218-01-9	Chrysene	492		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	532		20	4.1
206-44-0	Fluoranthene	539		20	4.0
86-73-7	Fluorene	547		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	512		20	7.1
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	541		40	7.1
91-20-3	Naphthalene	523		40	4.4
85-01-8	Phenanthrene	531		8.0	3.9
129-00-0	Pyrene	508		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07016.D
Lab Smp Id: lcs 660-138156/2-a
Inj Date : 07-JUN-2013 16:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-138156/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16 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	14.950	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	6.260	6.266	(1.000)	3415746	40.0000	
* 7	Acenaphthene-d10	164	7.935	7.935	(1.000)	1984341	40.0000	
* 11	Phenanthrene-d10	188	9.192	9.192	(1.000)	3217461	40.0000	
$ 15	o-Terphenyl	230	9.498	9.498	(1.033)	355225	7.53606	500
* 19	Chrysene-d12	240	11.554	11.554	(1.000)	3231448	40.0000	
* 24	Perylene-d12	264	13.452	13.458	(1.000)	3042857	40.0000	
2	Naphthalene	128	6.284	6.284	(1.004)	658734	7.82028	520
3	2-Methylnaphthalene	142	6.983	6.983	(1.115)	433639	8.08528	540
4	1-Methylnaphthalene	142	7.071	7.077	(1.129)	419919	7.60518	510
5	1,1'-Biphenyl	154	7.418	7.418	(0.935)	740	0.01104	0.74(aQR)
6	Acenaphthylene	152	7.806	7.805	(0.984)	678098	8.24198	550
8	Acenaphthene	154	7.958	7.958	(1.003)	393024	7.53034	500
9	Dibenzofuran	168	8.105	8.111	(1.021)	579376	8.05079	540
10	Fluorene	166	8.399	8.399	(1.058)	482814	8.17591	550

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
12 Phenanthrene	178	9.210	9.210	(1.002)	691489	7.93543	530
13 Anthracene	178	9.251	9.251	(1.006)	701475	8.29664	550
16 Fluoranthene	202	10.191	10.191	(1.109)	717967	8.05376	540
17 Pyrene	202	10.379	10.379	(0.898)	718604	7.59551	510
18 Benzo(a)anthracene	228	11.537	11.536	(0.998)	696377	7.26131	480
20 Chrysene	228	11.578	11.577	(1.002)	635431	7.35808	490
21 Benzo(b)fluoranthene	252	12.888	12.894	(0.958)	617115	8.09540	540
22 Benzo(k)fluoranthene	252	12.923	12.935	(0.961)	640952	8.02913	540
23 Benzo(a)pyrene	252	13.352	13.358	(0.993)	552213	7.41568	500
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.103	(1.122)	594109	7.65962	510
26 Dibenzo(a,h)anthracene	278	15.126	15.144	(1.124)	573451	7.95729	530
27 Benzo(g,h,i)perylene	276	15.561	15.585	(1.157)	573035	8.29376	550

QC Flag Legend

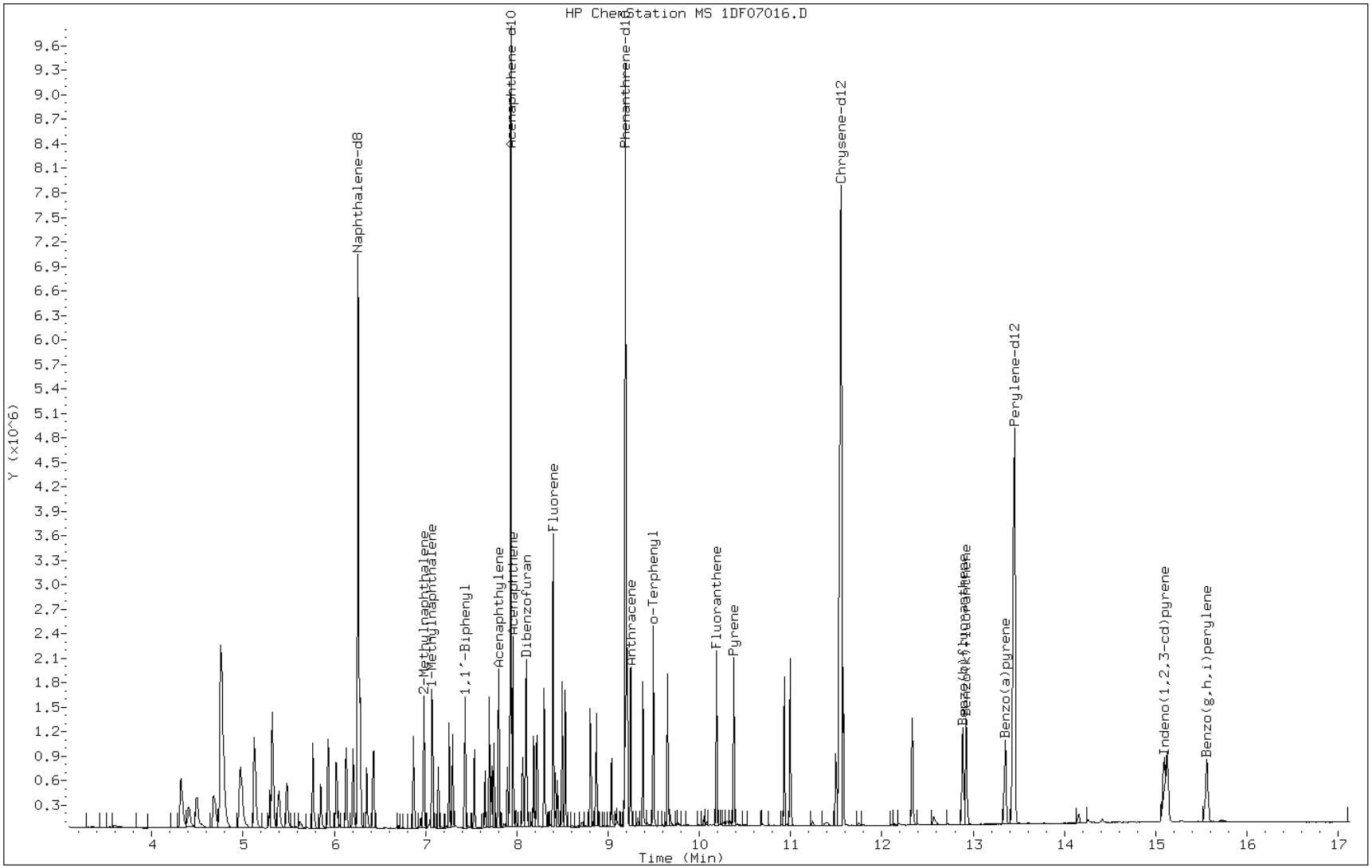
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: 1DF07016.D

Date: 07-JUN-2013 16:54

Client ID: Instrument: BSMSD.i

Sample Info: lcs 660-138156/2-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: LCS 660-138190/2-A

Matrix: Solid | Lab File ID: 1DF11006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 14.99(g) | Date Analyzed: 06/11/2013 13:08

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.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	407		100	20
208-96-8	Acenaphthylene	445		40	5.0
120-12-7	Anthracene	439		8.4	4.2
56-55-3	Benzo[a]anthracene	399		8.0	3.9
50-32-8	Benzo[a]pyrene	398		10	5.2
205-99-2	Benzo[b]fluoranthene	451		12	6.1
191-24-2	Benzo[g,h,i]perylene	414		20	4.4
207-08-9	Benzo[k]fluoranthene	426		8.0	3.6
218-01-9	Chrysene	382		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	408		20	4.1
206-44-0	Fluoranthene	435		20	4.0
86-73-7	Fluorene	452		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	391		20	7.1
90-12-0	1-Methylnaphthalene	418		40	4.4
91-57-6	2-Methylnaphthalene	446		40	7.1
91-20-3	Naphthalene	417		40	4.4
85-01-8	Phenanthrene	430		8.0	3.9
129-00-0	Pyrene	413		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11006.D
Lab Smp Id: lcs 660-138190/2-a
Inj Date : 11-JUN-2013 13:08
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-138190/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 6 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	14.990	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	6.257	6.260	(1.000)	3534898	40.0000	
* 7	Acenaphthene-d10	164	7.926	7.929	(1.000)	2200448	40.0000	
* 11	Phenanthrene-d10	188	9.189	9.192	(1.000)	3645131	40.0000	
$ 15	o-Terphenyl	230	9.489	9.497	(1.033)	330228	6.18380	410
* 19	Chrysene-d12	240	11.551	11.560	(1.000)	3632829	40.0000	
* 24	Perylene-d12	264	13.461	13.469	(1.000)	3183022	40.0000	
2	Naphthalene	128	6.275	6.284	(1.003)	544464	6.24583	420
3	2-Methylnaphthalene	142	6.974	6.977	(1.115)	371381	6.69106	450
4	1-Methylnaphthalene	142	7.068	7.071	(1.130)	357875	6.26302	420
6	Acenaphthylene	152	7.797	7.799	(0.984)	608474	6.66939	440
8	Acenaphthene	154	7.955	7.958	(1.004)	353181	6.10237	410
10	Fluorene	166	8.396	8.399	(1.059)	443741	6.77628	450
12	Phenanthrene	178	9.207	9.210	(1.002)	635942	6.44174	430
13	Anthracene	178	9.242	9.251	(1.006)	629961	6.57664	440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.188	10.191	(1.109)	657860	6.51370	430
17 Pyrene	202	10.376	10.379	(0.898)	658360	6.18989	410
18 Benzo(a)anthracene	228	11.533	11.536	(0.998)	644181	5.97490	400
20 Chrysene	228	11.575	11.583	(1.002)	555696	5.72382	380
21 Benzo(b)fluoranthene	252	12.891	12.899	(0.958)	539062	6.76009	450
22 Benzo(k)fluoranthene	252	12.926	12.940	(0.960)	533259	6.38591	430
23 Benzo(a)pyrene	252	13.355	13.369	(0.992)	463459	5.96920	400
25 Indeno(1,2,3-cd)pyrene	276	15.094	15.120	(1.121)	472488	5.85885	390(M)
26 Dibenzo(a,h)anthracene	278	15.129	15.156	(1.124)	460091	6.11993	410
27 Benzo(g,h,i)perylene	276	15.570	15.602	(1.157)	448963	6.21187	410

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF11006.D

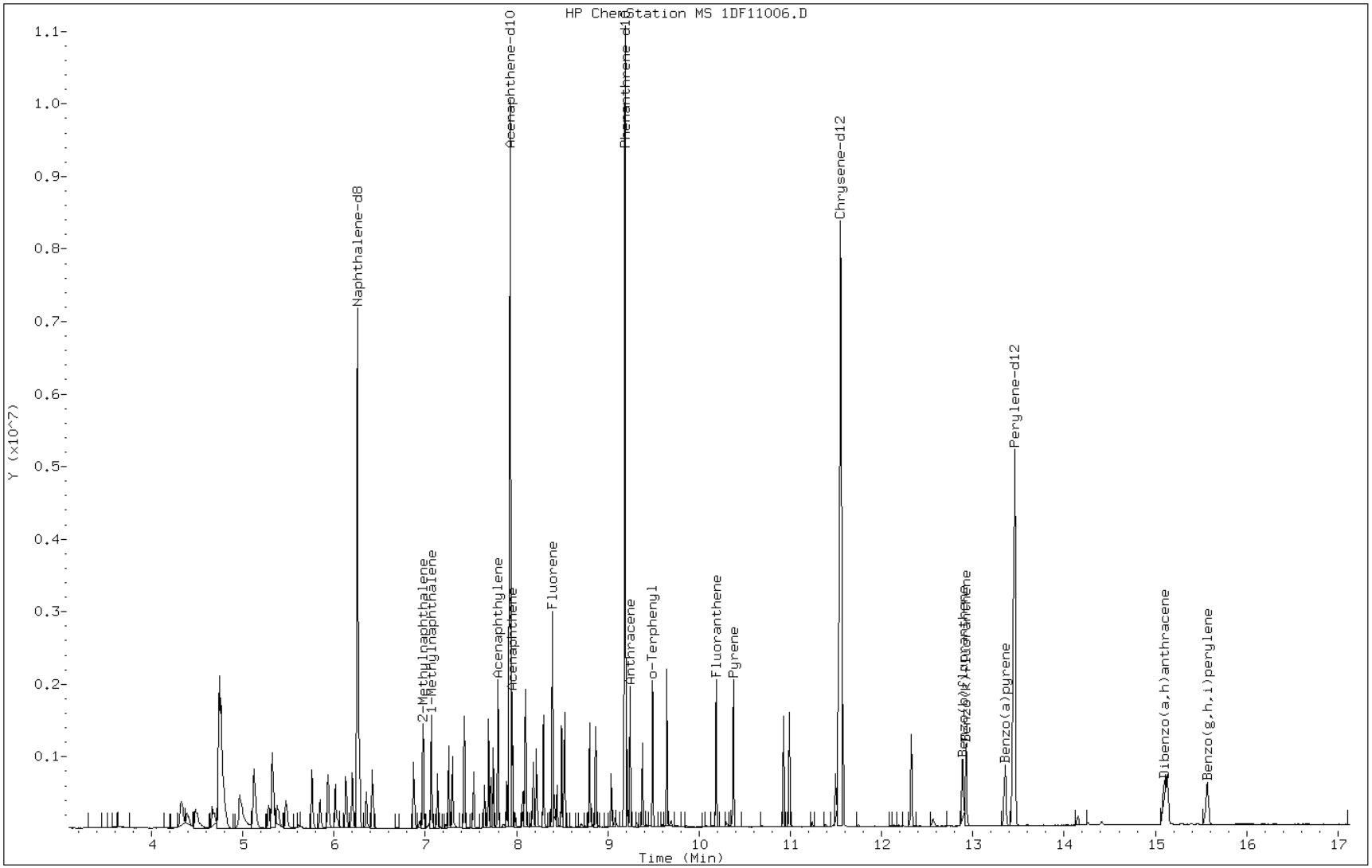
Date: 11-JUN-2013 13:08

Client ID:

Instrument: BSMSD.i

Sample Info: lcs 660-138190/2-a

Operator: SCC



Manual Integration Report

Data File: 1DF11006.D
Inj. Date and Time: 11-JUN-2013 13:08
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

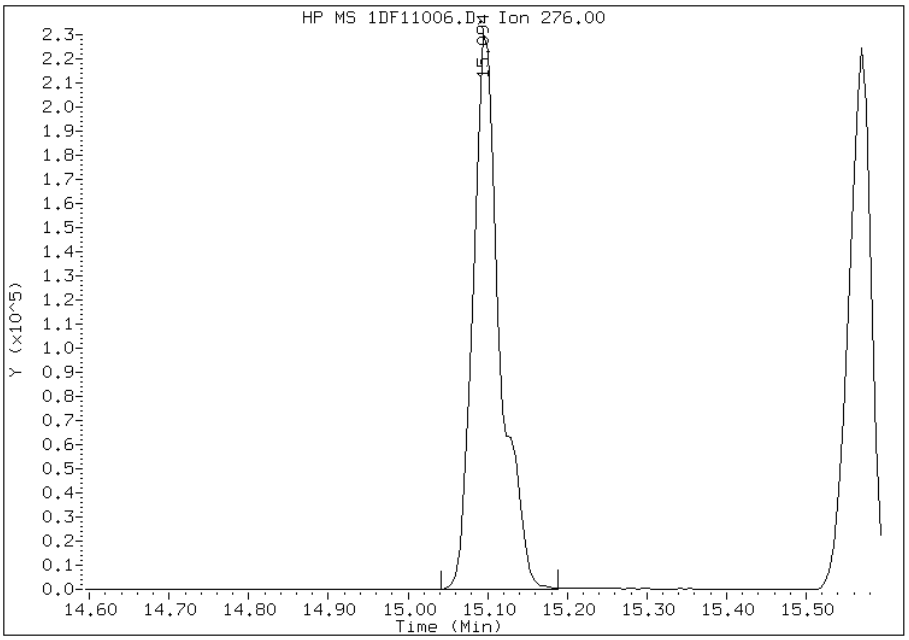
Processing Integration Results

RT: 15.09

Response: 538128

Amount: 7

Conc: 444



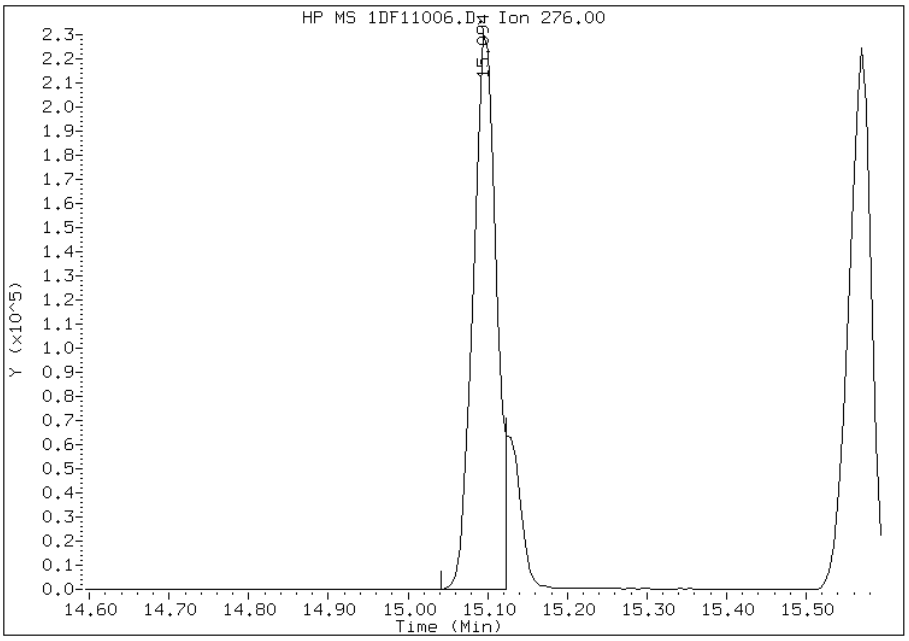
Manual Integration Results

RT: 15.09

Response: 472488

Amount: 6

Conc: 391



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: 680-90855-A-21-B MS

Matrix: Solid | Lab File ID: 1DF07027.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/06/2013 14:10

Sample wt/vol: 15.14(g) | Date Analyzed: 06/07/2013 21:02

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

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

% Moisture: 3.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138205 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	415		100	21
208-96-8	Acenaphthylene	448		41	5.1
120-12-7	Anthracene	459		8.6	4.3
56-55-3	Benzo[a]anthracene	484		8.2	4.0
50-32-8	Benzo[a]pyrene	484		11	5.3
205-99-2	Benzo[b]fluoranthene	593		13	6.3
191-24-2	Benzo[g,h,i]perylene	521		21	4.5
207-08-9	Benzo[k]fluoranthene	487		8.2	3.7
218-01-9	Chrysene	522		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	429		21	4.2
206-44-0	Fluoranthene	643		21	4.1
86-73-7	Fluorene	447		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	480		21	7.3
90-12-0	1-Methylnaphthalene	463		41	4.5
91-57-6	2-Methylnaphthalene	531		41	7.3
91-20-3	Naphthalene	463		41	4.5
85-01-8	Phenanthrene	616		8.2	4.0
129-00-0	Pyrene	585		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07027.D
Lab Smp Id: 680-90855-a-21-b ms
Inj Date : 07-JUN-2013 21:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 27 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	15.140	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	6.261	6.266	(1.000)	3108408	40.0000	
* 7	Acenaphthene-d10	164	7.935	7.935	(1.000)	1768798	40.0000	
* 11	Phenanthrene-d10	188	9.193	9.192	(1.000)	2856839	40.0000	
$ 15	o-Terphenyl	230	9.498	9.498	(1.033)	252363	6.02968	400
* 19	Chrysene-d12	240	11.554	11.554	(1.000)	2804268	40.0000	
* 24	Perylene-d12	264	13.464	13.458	(1.000)	2941999	40.0000	
2	Naphthalene	128	6.284	6.284	(1.004)	517712	6.75380	450
3	2-Methylnaphthalene	142	6.983	6.983	(1.115)	378218	7.74920	510
4	1-Methylnaphthalene	142	7.077	7.077	(1.130)	339615	6.75893	450
5	1,1'-Biphenyl	154	7.418	7.418	(0.935)	21940	0.36714	24(R)
6	Acenaphthylene	152	7.806	7.805	(0.984)	479779	6.54212	430
8	Acenaphthene	154	7.959	7.958	(1.003)	282002	6.06158	400
9	Dibenzofuran	168	8.106	8.111	(1.021)	428611	6.68159	440
10	Fluorene	166	8.399	8.399	(1.058)	343657	6.52860	430

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.210	9.210	(1.002)	696097	8.99669	590
13 Anthracene	178	9.251	9.251	(1.006)	502976	6.69985	440
16 Fluoranthene	202	10.191	10.191	(1.109)	743006	9.38672	620
17 Pyrene	202	10.379	10.379	(0.898)	701342	8.54230	560
18 Benzo(a)anthracene	228	11.537	11.536	(0.998)	588441	7.07052	470
20 Chrysene	228	11.578	11.577	(1.002)	571393	7.62445	500
21 Benzo(b)fluoranthene	252	12.894	12.894	(0.958)	637910	8.65507	570
22 Benzo(k)fluoranthene	252	12.929	12.935	(0.960)	548830	7.11082	470
23 Benzo(a)pyrene	252	13.364	13.358	(0.993)	508015	7.06080	470
25 Indeno(1,2,3-cd)pyrene	276	15.109	15.103	(1.122)	524761	7.01028	460(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.144	(1.125)	434814	6.25591	410
27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.158)	508254	7.60834	500

QC Flag Legend

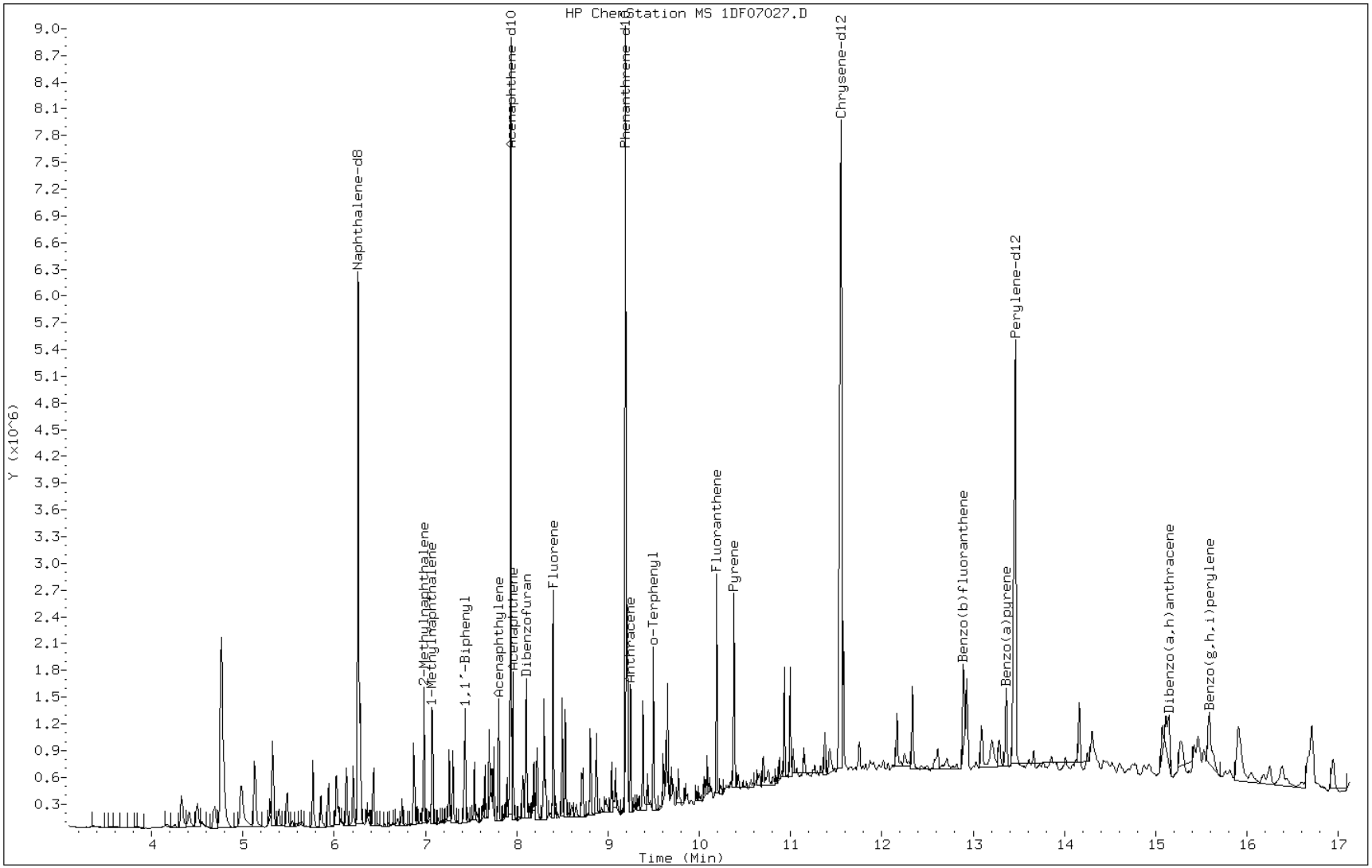
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DF07027.D

Date: 07-JUN-2013 21:02

Client ID: Instrument: BSMSD.i

Sample Info: 680-90855-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1DF07027.D
Inj. Date and Time: 07-JUN-2013 21:02
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

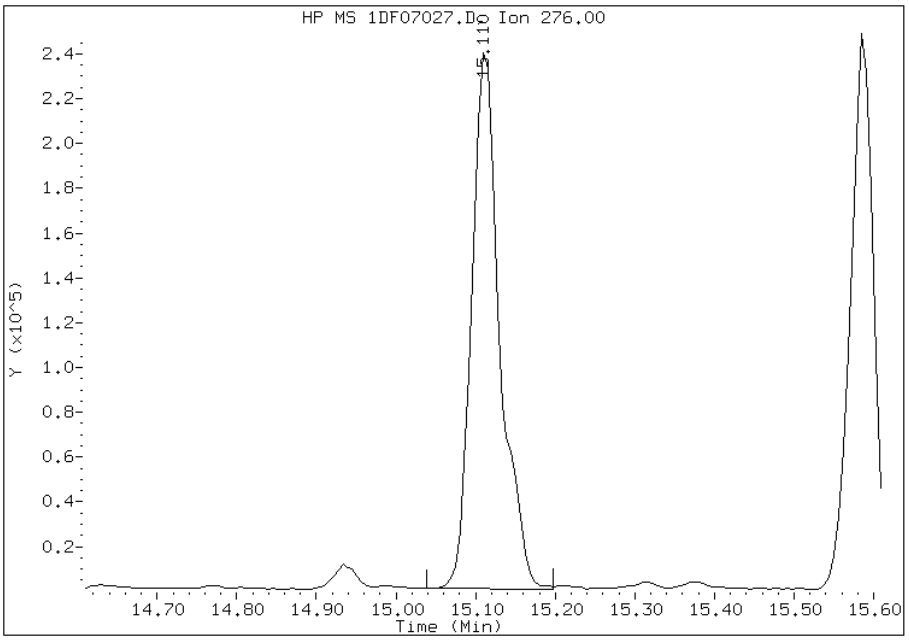
Processing Integration Results

RT: 15.11

Response: 585621

Amount: 8

Conc: 516



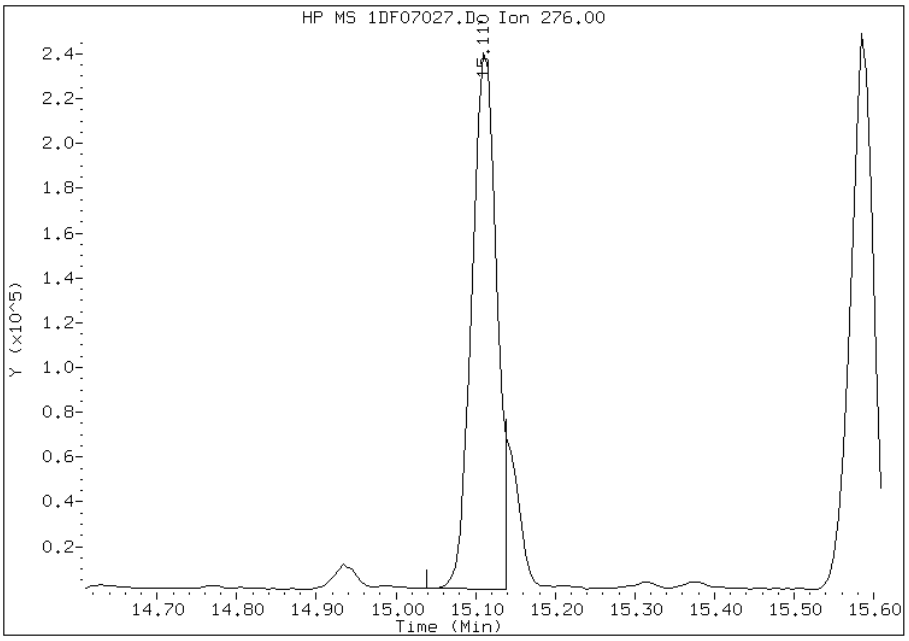
Manual Integration Results

RT: 15.11

Response: 524761

Amount: 7

Conc: 463



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: 680-91068-A-12-B MS

Matrix: Solid | Lab File ID: 1DF11027.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.31(g) | Date Analyzed: 06/11/2013 21:01

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

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

% Moisture: 10.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	406		110	22
208-96-8	Acenaphthylene	455		44	5.5
120-12-7	Anthracene	454		9.2	4.6
56-55-3	Benzo[a]anthracene	544		8.8	4.3
50-32-8	Benzo[a]pyrene	487		11	5.7
205-99-2	Benzo[b]fluoranthene	789		13	6.7
191-24-2	Benzo[g,h,i]perylene	311		22	4.8
207-08-9	Benzo[k]fluoranthene	491		8.8	4.0
218-01-9	Chrysene	564		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	301		22	4.5
206-44-0	Fluoranthene	744		22	4.4
86-73-7	Fluorene	444		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	339		22	7.8
90-12-0	1-Methylnaphthalene	472		44	4.8
91-57-6	2-Methylnaphthalene	533		44	7.8
91-20-3	Naphthalene	499		44	4.8
85-01-8	Phenanthrene	663		8.8	4.3
129-00-0	Pyrene	605		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11027.D
Lab Smp Id: 680-91068-a-12-b ms
Inj Date : 11-JUN-2013 21:01
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-91068-a-12-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 27 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	15.310	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	6.266	6.260	(1.000)	3488925	40.0000	
* 7	Acenaphthene-d10	164	7.935	7.929	(1.000)	2059304	40.0000	
* 11	Phenanthrene-d10	188	9.198	9.192	(1.000)	3299313	40.0000	
$ 15	o-Terphenyl	230	9.497	9.497	(1.033)	247869	5.12806	330
* 19	Chrysene-d12	240	11.577	11.560	(1.000)	3264426	40.0000	
* 24	Perylene-d12	264	13.499	13.469	(1.000)	2602655	40.0000	
2	Naphthalene	128	6.284	6.284	(1.003)	586264	6.81396	440
3	2-Methylnaphthalene	142	6.983	6.977	(1.114)	398613	7.27633	480
4	1-Methylnaphthalene	142	7.077	7.071	(1.129)	363509	6.44544	420
6	Acenaphthylene	152	7.805	7.799	(0.984)	529644	6.20324	400
8	Acenaphthene	154	7.964	7.958	(1.004)	299862	5.53622	360
10	Fluorene	166	8.405	8.399	(1.059)	371358	6.05962	400
12	Phenanthrene	178	9.215	9.210	(1.002)	808106	9.04364	590
13	Anthracene	178	9.256	9.251	(1.006)	537598	6.20066	400

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.202	10.191	(1.109)	927771	10.1490	660
17 Pyrene	202	10.390	10.379	(0.897)	789655	8.26219	540
18 Benzo(a)anthracene	228	11.560	11.536	(0.998)	719050	7.42198	480
20 Chrysene	228	11.601	11.583	(1.002)	670866	7.68993	500
21 Benzo(b)fluoranthene	252	12.929	12.899	(0.958)	702225	10.7699	700
22 Benzo(k)fluoranthene	252	12.958	12.940	(0.960)	457451	6.69965	440
23 Benzo(a)pyrene	252	13.393	13.369	(0.992)	422818	6.64872	430
25 Indeno(1,2,3-cd)pyrene	276	15.161	15.120	(1.123)	303293	4.63128	300(M)
26 Dibenzo(a,h)anthracene	278	15.191	15.156	(1.125)	251219	4.11066	270
27 Benzo(g,h,i)perylene	276	15.643	15.602	(1.159)	250816	4.24415	280

QC Flag Legend

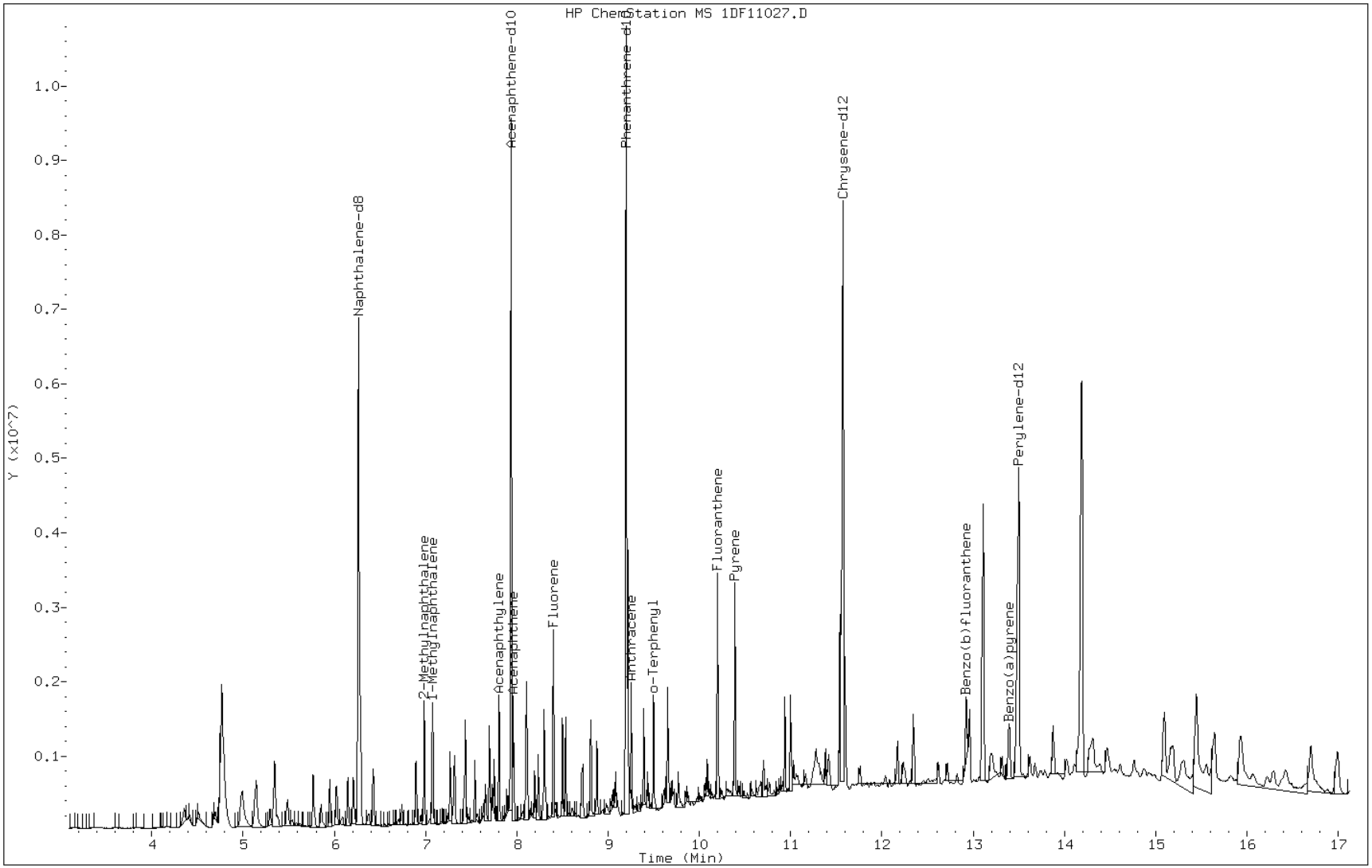
M - Compound response manually integrated.

Data File: 1DF11027.D

Date: 11-JUN-2013 21:01

Client ID: Instrument: BSMSD.i

Sample Info: 680-91068-a-12-b ms Operator: SCC



Manual Integration Report

Data File: 1DF11027.D
Inj. Date and Time: 11-JUN-2013 21:01
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

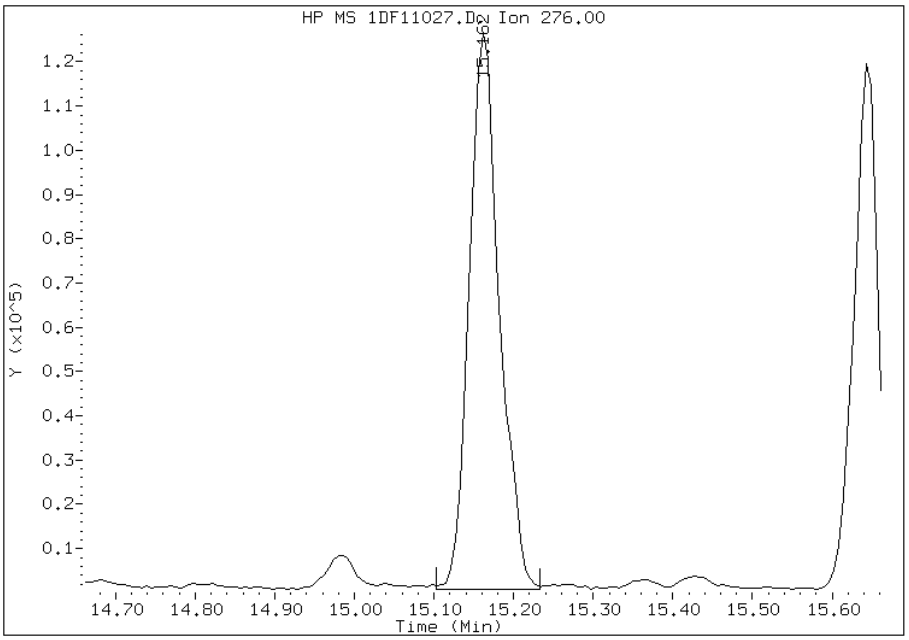
Processing Integration Results

RT: 15.16

Response: 329747

Amount: 5

Conc: 328



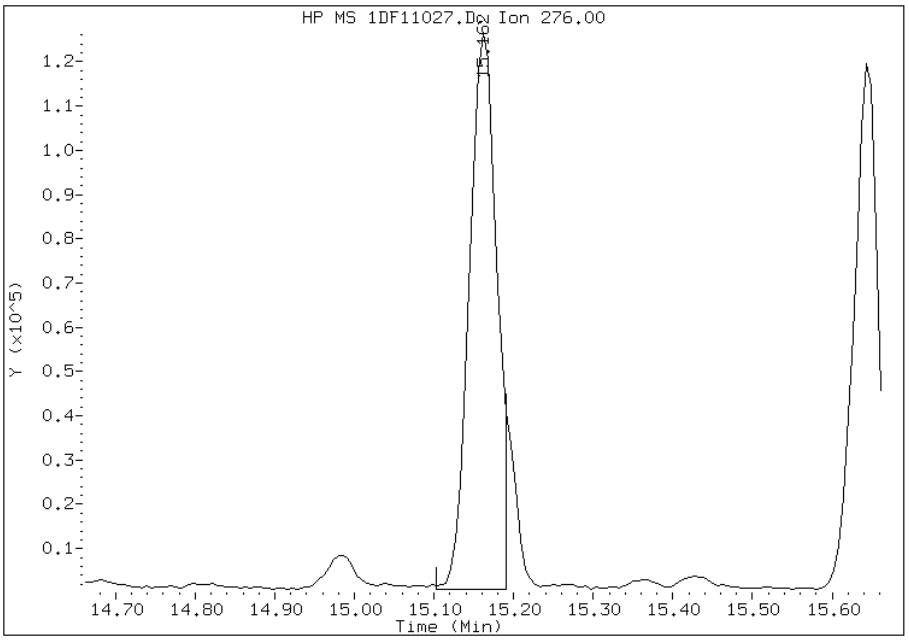
Manual Integration Results

RT: 15.16

Response: 303293

Amount: 5

Conc: 303



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1017A-CS MS | Lab Sample ID: 680-90855-3 MS

Matrix: Solid | Lab File ID: 1CF07013.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:40

Extract. Method: 3546 | Date Extracted: 06/05/2013 15:09

Sample wt/vol: 14.96(g) | Date Analyzed: 06/07/2013 14:42

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

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

% Moisture: 10.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	554		450	89
208-96-8	Acenaphthylene	657		180	22
120-12-7	Anthracene	591		37	19
56-55-3	Benzo[a]anthracene	820		36	17
50-32-8	Benzo[a]pyrene	786		46	23
205-99-2	Benzo[b]fluoranthene	1090		54	27
191-24-2	Benzo[g,h,i]perylene	687		89	20
207-08-9	Benzo[k]fluoranthene	861		36	16
218-01-9	Chrysene	882		40	20
53-70-3	Dibenz(a,h)anthracene	570		89	18
206-44-0	Fluoranthene	950		89	18
86-73-7	Fluorene	577		89	18
193-39-5	Indeno[1,2,3-cd]pyrene	601		89	32
90-12-0	1-Methylnaphthalene	777		180	20
91-57-6	2-Methylnaphthalene	839		180	32
91-20-3	Naphthalene	544		180	20
85-01-8	Phenanthrene	815		36	17
129-00-0	Pyrene	858		89	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07013.D
Lab Smp Id: 680-90855-a-3-b ms
Inj Date : 07-JUN-2013 14:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90855-a-3-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 10 QC Sample: MS
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	14.960	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/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.033	4.033	(1.000)	1981033	40.0000	
*	6 Acenaphthene-d10	164	5.115	5.116	(1.000)	1450393	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2752445	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	76621	1.78703	477.8164
*	18 Chrysene-d12	240	8.045	8.051	(1.000)	3314681	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	2819303	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	102235	1.82874	488.9687
	3 2-Methylnaphthalene	142	4.468	4.468	(1.108)	87482	2.82122	754.3375
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	79645	2.61060	698.0206
	5 Acenaphthylene	152	5.033	5.033	(0.984)	122846	2.20939	590.7458
	7 Acenaphthene	154	5.139	5.139	(1.005)	64884	1.86086	497.5565
	9 Fluorene	166	5.462	5.463	(1.068)	86241	1.93844	518.3006
	11 Phenanthrene	178	6.098	6.104	(1.002)	222664	2.73816	732.1283
	12 Anthracene	178	6.133	6.139	(1.008)	149644	1.98633	531.1051

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.239	6.239	(1.025)	128249	1.93752	518.0524
15 Fluoranthene	202	6.951	6.951	(1.142)	265371	3.19267	853.6537
16 Pyrene	202	7.121	7.121	(0.885)	258108	2.88367	771.0353
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	252020	2.75731	737.2490
19 Chrysene	228	8.062	8.068	(1.002)	272891	2.96543	792.8969
20 Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	253130	3.65431	977.0887(R)
21 Benzo(k)fluoranthene	252	8.992	8.998	(0.959)	223934	2.89448	773.9247
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	179951	2.64100	706.1486
24 Indeno(1,2,3-cd)pyrene	276	10.739	10.745	(1.146)	140272	2.01871	539.7627(M)
25 Dibenzo(a,h)anthracene	278	10.756	10.762	(1.147)	115200	1.91441	511.8733
26 Benzo(g,h,i)perylene	276	11.156	11.162	(1.190)	151251	2.30929	617.4568

QC Flag Legend

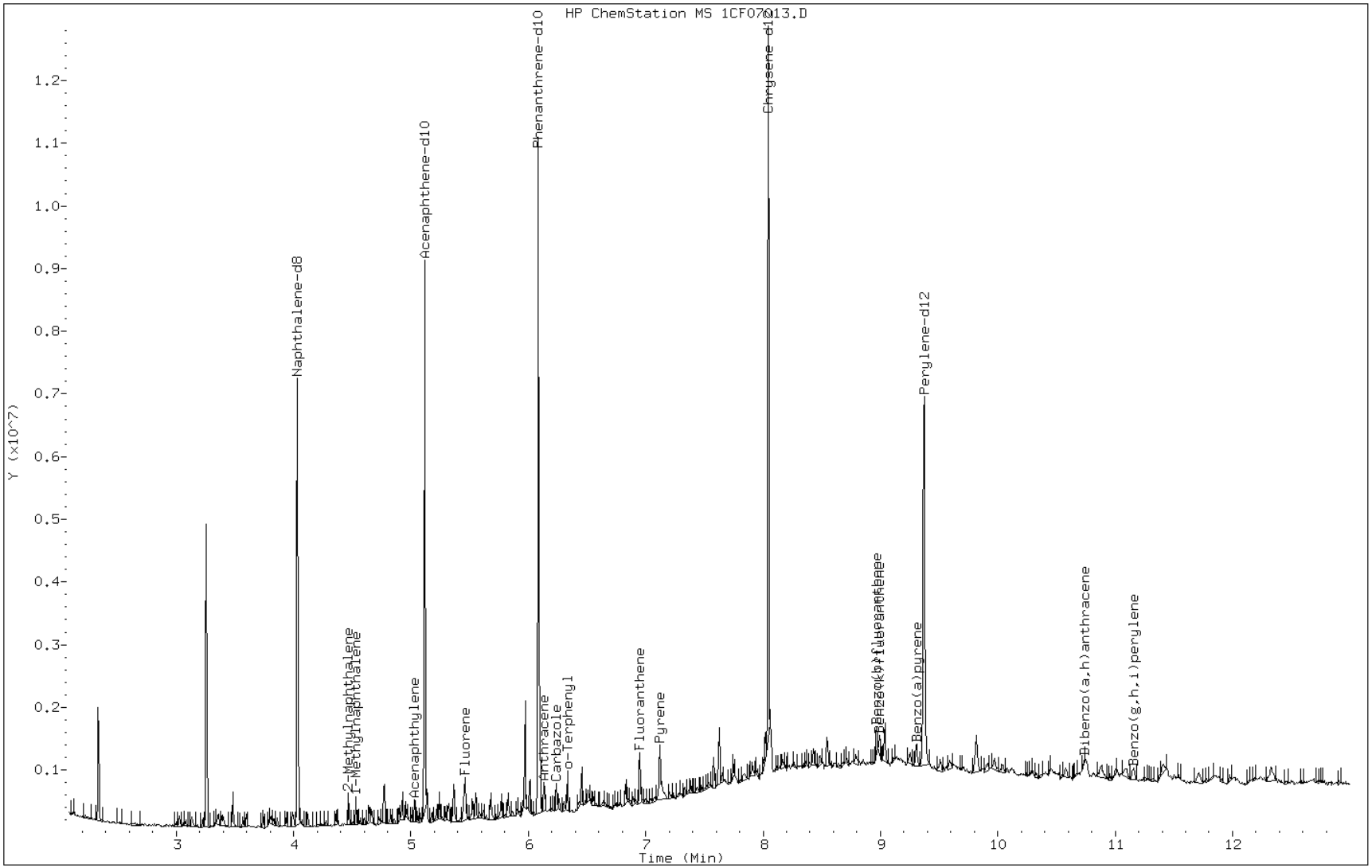
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CF07013.D

Date: 07-JUN-2013 14:42

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-b ms Operator: SCC



Manual Integration Report

Data File: 1CF07013.D
Inj. Date and Time: 07-JUN-2013 14:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

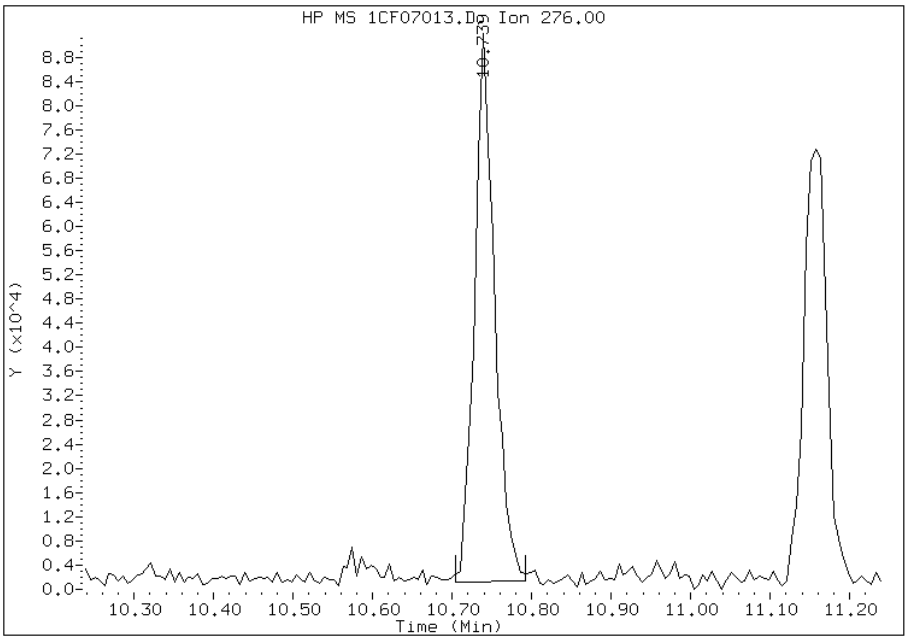
Processing Integration Results

RT: 10.74

Response: 158199

Amount: 2

Conc: 603



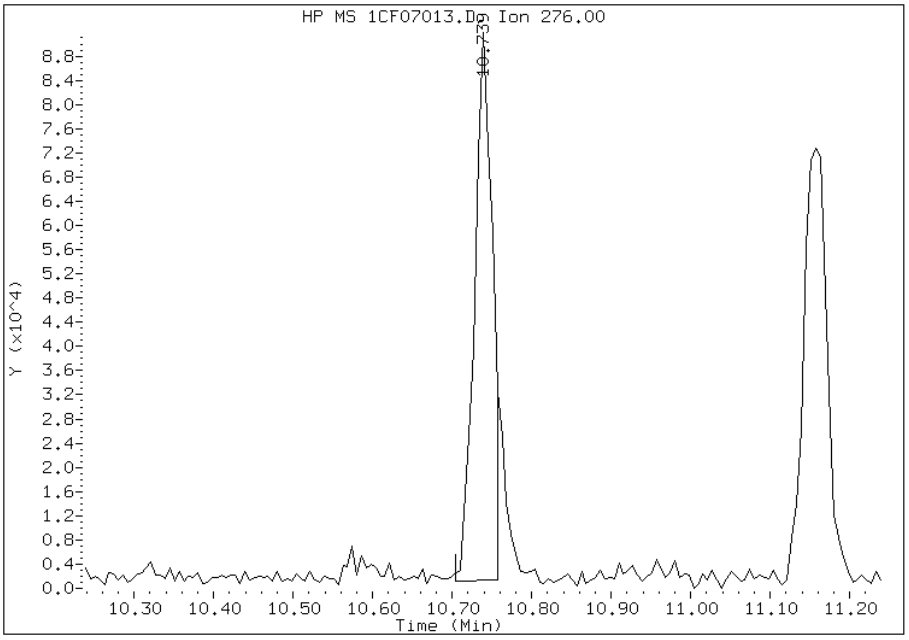
Manual Integration Results

RT: 10.74

Response: 140272

Amount: 2

Conc: 540



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 12:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: 680-90855-A-21-C MSD

Matrix: Solid | Lab File ID: 1DF07028.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/06/2013 14:10

Sample wt/vol: 15.11(g) | Date Analyzed: 06/07/2013 21:25

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

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

% Moisture: 3.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138205 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	405		100	21
208-96-8	Acenaphthylene	455		41	5.1
120-12-7	Anthracene	450		8.7	4.3
56-55-3	Benzo[a]anthracene	436		8.2	4.0
50-32-8	Benzo[a]pyrene	431		11	5.4
205-99-2	Benzo[b]fluoranthene	525		13	6.3
191-24-2	Benzo[g,h,i]perylene	444		21	4.5
207-08-9	Benzo[k]fluoranthene	444		8.2	3.7
218-01-9	Chrysene	504		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	402		21	4.2
206-44-0	Fluoranthene	550		21	4.1
86-73-7	Fluorene	444		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	425		21	7.3
90-12-0	1-Methylnaphthalene	443		41	4.5
91-57-6	2-Methylnaphthalene	501		41	7.3
91-20-3	Naphthalene	440		41	4.5
85-01-8	Phenanthrene	541		8.2	4.0
129-00-0	Pyrene	495		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07028.D
Lab Smp Id: 680-90855-a-21-c ms
Inj Date : 07-JUN-2013 21:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 28 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	15.110	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	6.263	6.266	(1.000)	3173766	40.0000	
* 7	Acenaphthene-d10	164	7.932	7.935	(1.000)	1801670	40.0000	
* 11	Phenanthrene-d10	188	9.189	9.192	(1.000)	2941176	40.0000	
$ 15	o-Terphenyl	230	9.501	9.498	(1.034)	276104	6.40776	420
* 19	Chrysene-d12	240	11.557	11.554	(1.000)	2896266	40.0000	
* 24	Perylene-d12	264	13.467	13.458	(1.000)	3027894	40.0000	
2	Naphthalene	128	6.287	6.284	(1.004)	501157	6.40320	420
3	2-Methylnaphthalene	142	6.980	6.983	(1.114)	363374	7.29174	480
4	1-Methylnaphthalene	142	7.074	7.077	(1.129)	330909	6.45005	430
5	1,1'-Biphenyl	154	7.421	7.418	(0.936)	19925	0.32733	22(R)
6	Acenaphthylene	152	7.803	7.805	(0.984)	494584	6.62095	440
8	Acenaphthene	154	7.961	7.958	(1.004)	279759	5.90365	390
9	Dibenzofuran	168	8.108	8.111	(1.022)	429215	6.56892	430
10	Fluorene	166	8.402	8.399	(1.059)	346957	6.47103	430

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.207	9.210	(1.002)	627899	7.88256	520
13 Anthracene	178	9.248	9.251	(1.006)	506515	6.55352	430
16 Fluoranthene	202	10.194	10.191	(1.109)	652405	8.00578	530
17 Pyrene	202	10.382	10.379	(0.898)	611268	7.20871	480
18 Benzo(a)anthracene	228	11.539	11.536	(0.998)	545945	6.35153	420
20 Chrysene	228	11.580	11.577	(1.002)	567892	7.33704	480
21 Benzo(b)fluoranthene	252	12.897	12.894	(0.958)	580264	7.64960	510
22 Benzo(k)fluoranthene	252	12.932	12.935	(0.960)	514182	6.47292	430
23 Benzo(a)pyrene	252	13.367	13.358	(0.993)	464465	6.28337	420
25 Indeno(1,2,3-cd)pyrene	276	15.112	15.103	(1.122)	475566	6.19054	410(M)
26 Dibenzo(a,h)anthracene	278	15.147	15.144	(1.125)	418192	5.85080	390
27 Benzo(g,h,i)perylene	276	15.588	15.585	(1.157)	444673	6.46773	430

QC Flag Legend

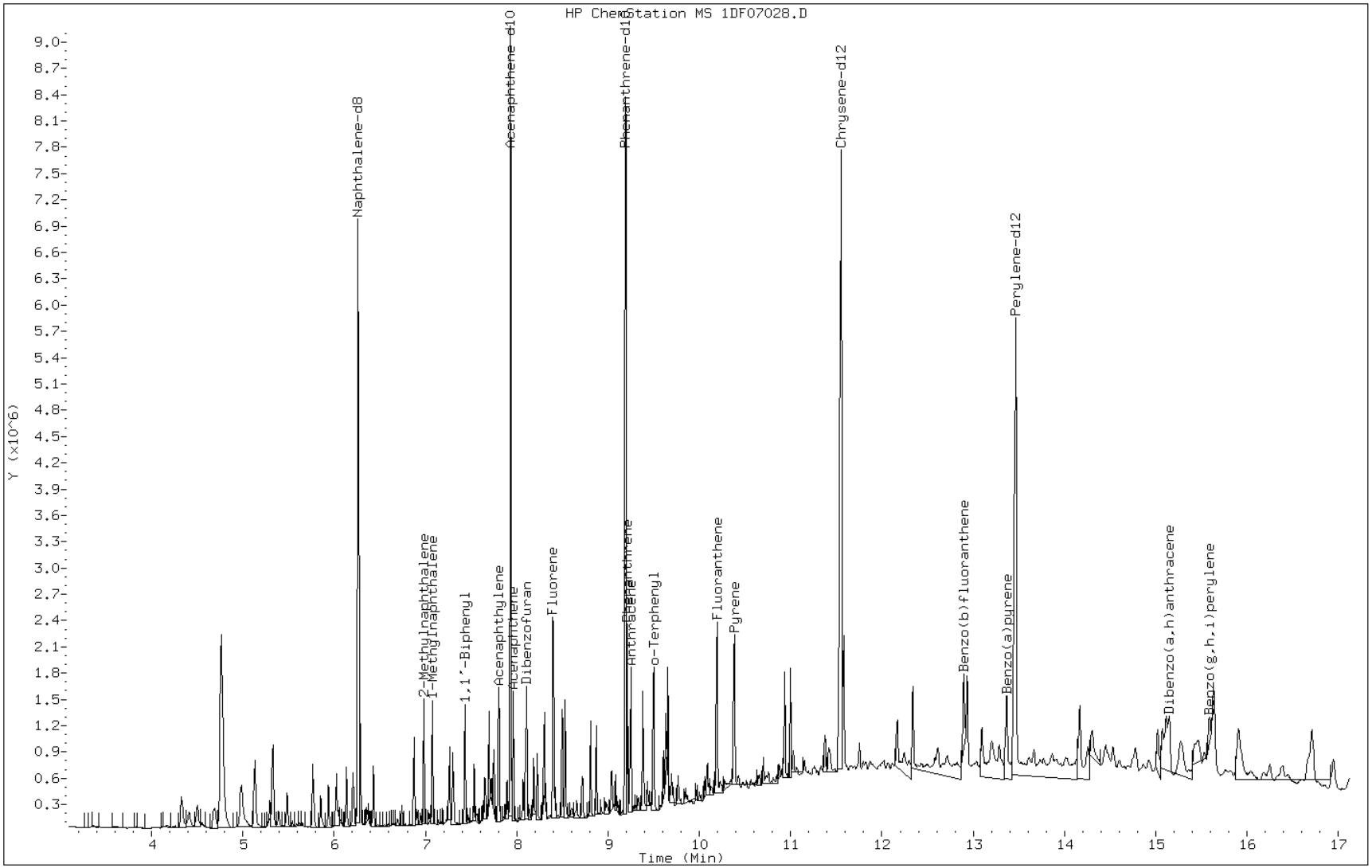
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DF07028.D

Date: 07-JUN-2013 21:25

Client ID: Instrument: BSMSD.i

Sample Info: 680-90855-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1DF07028.D
Inj. Date and Time: 07-JUN-2013 21:25
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

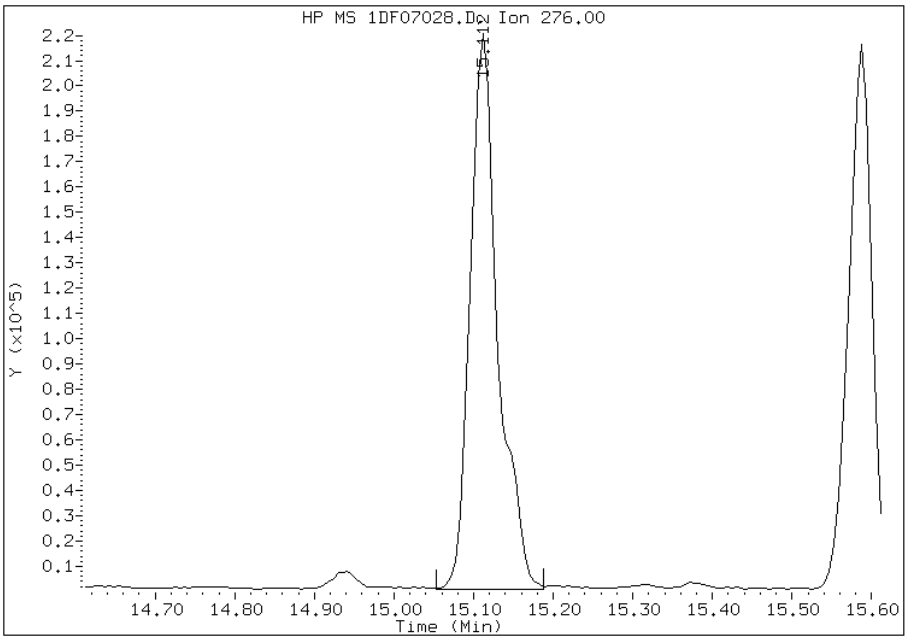
Processing Integration Results

RT: 15.11

Response: 526908

Amount: 7

Conc: 453



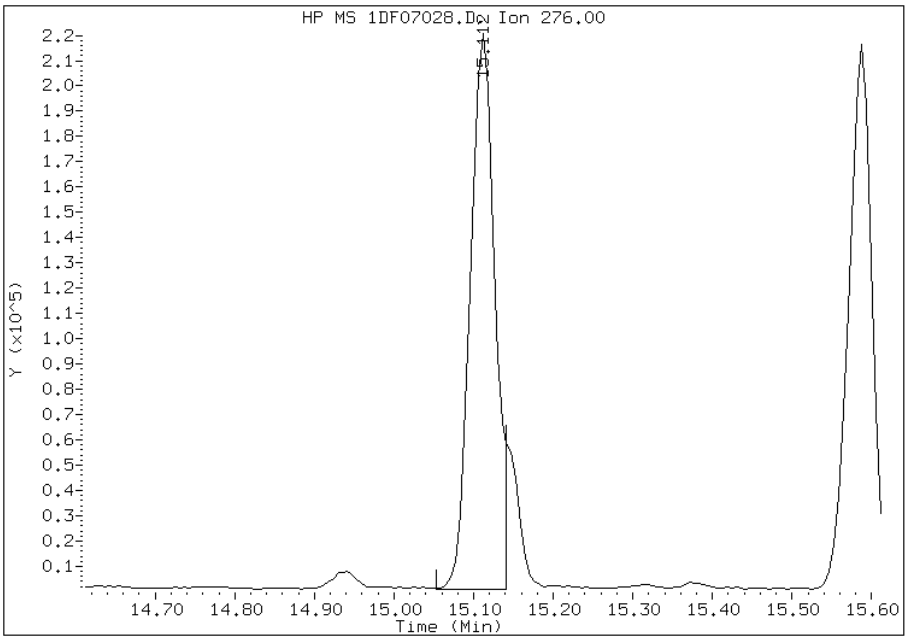
Manual Integration Results

RT: 15.11

Response: 475566

Amount: 6

Conc: 410



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: | Lab Sample ID: 680-91068-A-12-C MSD

Matrix: Solid | Lab File ID: 1DF11028.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/07/2013 10:07

Sample wt/vol: 15.31(g) | Date Analyzed: 06/11/2013 21:24

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

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

% Moisture: 10.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138352 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	457		110	22
208-96-8	Acenaphthylene	509		44	5.5
120-12-7	Anthracene	569		9.2	4.6
56-55-3	Benzo[a]anthracene	832		8.8	4.3
50-32-8	Benzo[a]pyrene	700		11	5.7
205-99-2	Benzo[b]fluoranthene	1150		13	6.7
191-24-2	Benzo[g,h,i]perylene	415		22	4.8
207-08-9	Benzo[k]fluoranthene	669		8.8	4.0
218-01-9	Chrysene	818		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	353		22	4.5
206-44-0	Fluoranthene	1320		22	4.4
86-73-7	Fluorene	510		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	451		22	7.8
90-12-0	1-Methylnaphthalene	566		44	4.8
91-57-6	2-Methylnaphthalene	653		44	7.8
91-20-3	Naphthalene	627		44	4.8
85-01-8	Phenanthrene	1060		8.8	4.3
129-00-0	Pyrene	996		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11028.D
Lab Smp Id: 680-91068-a-12-c ms
Inj Date : 11-JUN-2013 21:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-91068-a-12-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 28 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	15.310	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	6.266	6.260	(1.000)	3183581	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.929	(1.000)	1881635	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.192	(1.000)	3037557	40.0000	
$ 15 o-Terphenyl	230	9.503	9.497	(1.033)	231328	5.19826	340
* 19 Chrysene-d12	240	11.577	11.560	(1.000)	3015552	40.0000	
* 24 Perylene-d12	264	13.504	13.469	(1.000)	2341183	40.0000	
2 Naphthalene	128	6.283	6.284	(1.003)	671286	8.55046	560
3 2-Methylnaphthalene	142	6.982	6.977	(1.114)	445568	8.91355	580
4 1-Methylnaphthalene	142	7.076	7.071	(1.129)	397304	7.72034	500
6 Acenaphthylene	152	7.811	7.799	(0.984)	541398	6.93963	450
8 Acenaphthene	154	7.964	7.958	(1.003)	308595	6.23542	410
10 Fluorene	166	8.404	8.399	(1.058)	389582	6.95723	450
12 Phenanthrene	178	9.215	9.210	(1.002)	1190701	14.4736	940(R)
13 Anthracene	178	9.256	9.251	(1.006)	619452	7.76045	510

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.202	10.191	(1.109)	1513887	17.9877	1200(R)
17 Pyrene	202	10.390	10.379	(0.897)	1199628	13.5876	890(R)
18 Benzo(a)anthracene	228	11.565	11.536	(0.999)	1015784	11.3502	740
20 Chrysene	228	11.601	11.583	(1.002)	899498	11.1616	730
21 Benzo(b)fluoranthene	252	12.934	12.899	(0.958)	918883	15.6667	1000(R)
22 Benzo(k)fluoranthene	252	12.964	12.940	(0.960)	560558	9.12661	600
23 Benzo(a)pyrene	252	13.398	13.369	(0.992)	548962	9.55273	620
25 Indeno(1,2,3-cd)pyrene	276	15.173	15.120	(1.124)	365208	6.14943	400(M)
26 Dibenzo(a,h)anthracene	278	15.202	15.156	(1.126)	265154	4.81076	310
27 Benzo(g,h,i)perylene	276	15.655	15.602	(1.159)	301143	5.66486	370

QC Flag Legend

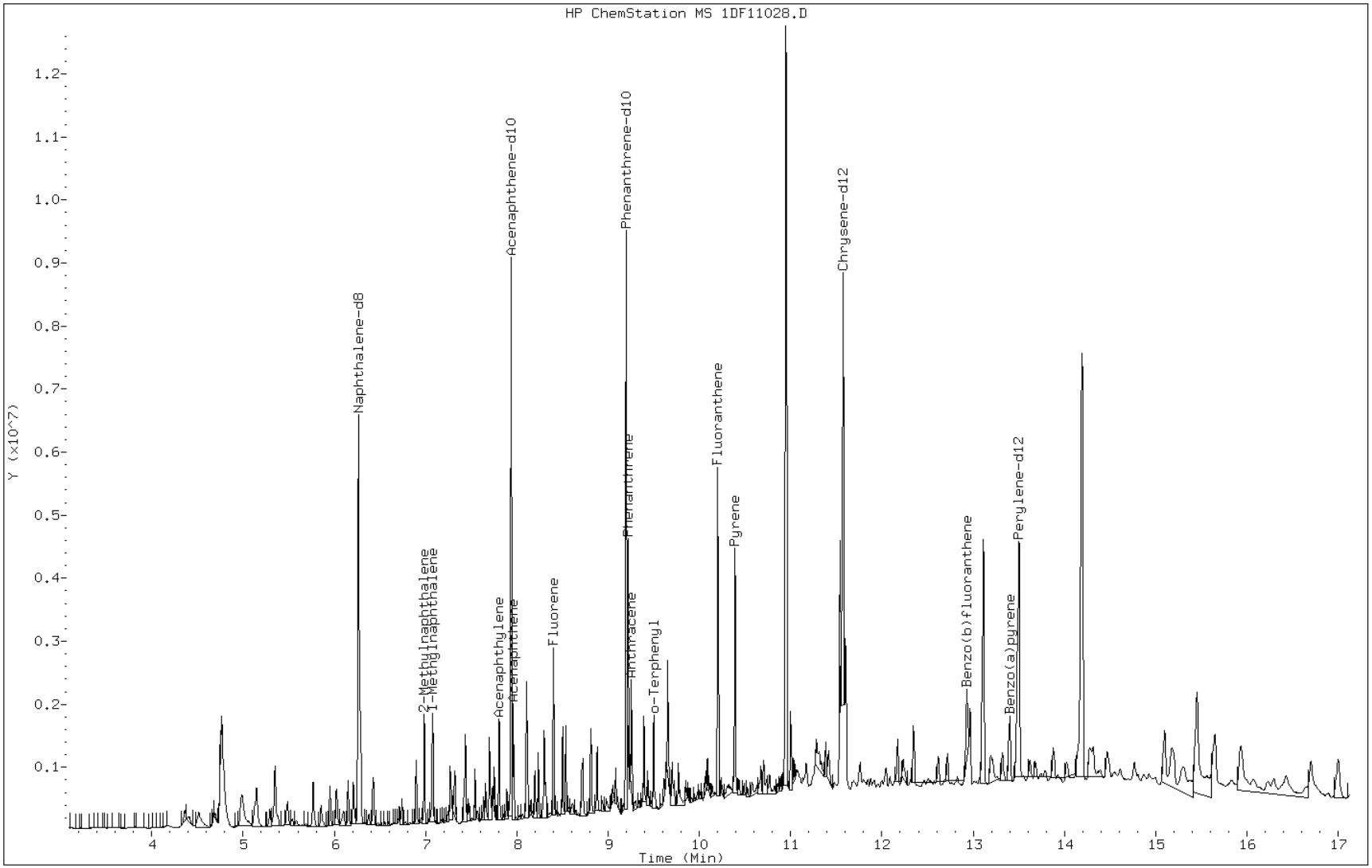
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DF11028.D

Date: 11-JUN-2013 21:24

Client ID: Instrument: BSMSD.i

Sample Info: 680-91068-a-12-c msd Operator: SCC



Manual Integration Report

Data File: 1DF11028.D
Inj. Date and Time: 11-JUN-2013 21:24
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

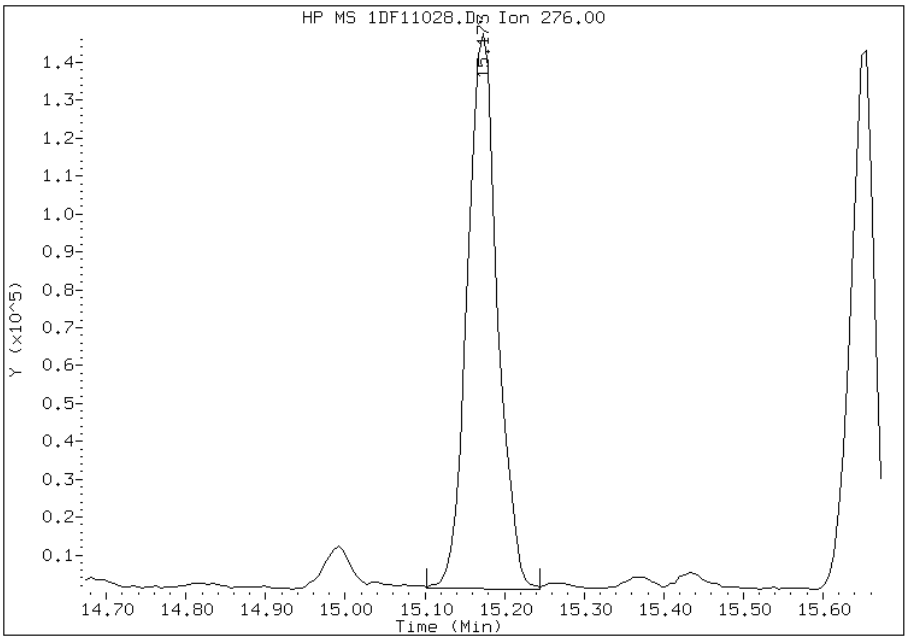
Processing Integration Results

RT: 15.17

Response: 384198

Amount: 6

Conc: 422



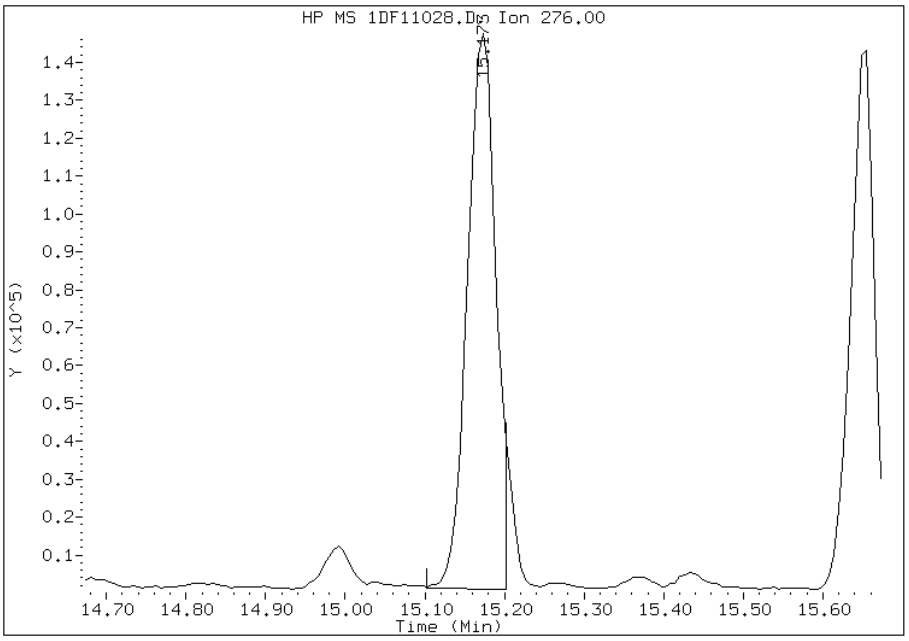
Manual Integration Results

RT: 15.17

Response: 365208

Amount: 6

Conc: 402



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90855-1

SDG No.: 68090855-1

Client Sample ID: CV1017A-CS MSD | Lab Sample ID: 680-90855-3 MSD

Matrix: Solid | Lab File ID: 1CF07014.D

Analysis Method: 8270C LL | Date Collected: 05/30/2013 09:40

Extract. Method: 3546 | Date Extracted: 06/05/2013 15:09

Sample wt/vol: 14.96(g) | Date Analyzed: 06/07/2013 15:00

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

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

% Moisture: 10.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	592		450	89
208-96-8	Acenaphthylene	587		180	22
120-12-7	Anthracene	614		37	19
56-55-3	Benzo[a]anthracene	780		36	17
50-32-8	Benzo[a]pyrene	717		46	23
205-99-2	Benzo[b]fluoranthene	1280		54	27
191-24-2	Benzo[g,h,i]perylene	685		89	20
207-08-9	Benzo[k]fluoranthene	704		36	16
218-01-9	Chrysene	864		40	20
53-70-3	Dibenz(a,h)anthracene	584		89	18
206-44-0	Fluoranthene	919		89	18
86-73-7	Fluorene	621		89	18
193-39-5	Indeno[1,2,3-cd]pyrene	608		89	32
90-12-0	1-Methylnaphthalene	767		180	20
91-57-6	2-Methylnaphthalene	821		180	32
91-20-3	Naphthalene	523		180	20
85-01-8	Phenanthrene	881		36	17
129-00-0	Pyrene	797		89	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07014.D
Lab Smp Id: 680-90855-a-3-c msd
Inj Date : 07-JUN-2013 15:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90855-a-3-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\a-bFASTPAHi-m.m
Meth Date : 07-Jun-2013 12:28 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 11 QC Sample: MSD
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	14.960	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/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.033	4.033	(1.000)	2115672	40.0000	
*	6 Acenaphthene-d10	164	5.116	5.116	(1.000)	1552495	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2944050	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	86061	1.87657	501.7566
*	18 Chrysene-d12	240	8.045	8.051	(1.000)	3515951	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	3029896	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	104921	1.75735	469.8803
	3 2-Methylnaphthalene	142	4.469	4.468	(1.108)	91350	2.75848	737.5627
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	83997	2.57803	689.3136
	5 Acenaphthylene	152	5.033	5.033	(0.984)	117376	1.97218	527.3202
	7 Acenaphthene	154	5.139	5.139	(1.005)	74262	1.98975	532.0187
	9 Fluorene	166	5.463	5.463	(1.068)	99437	2.08806	558.3049
	11 Phenanthrene	178	6.098	6.104	(1.002)	257485	2.96029	791.5213
	12 Anthracene	178	6.133	6.139	(1.008)	166302	2.06378	551.8132

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.239	6.239	(1.025)	138670	1.95736	523.3575
15 Fluoranthene	202	6.951	6.951	(1.142)	274636	3.08909	825.9604
16 Pyrene	202	7.121	7.121	(0.885)	254335	2.67886	716.2717
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	254297	2.62296	701.3250
19 Chrysene	228	8.068	8.068	(1.003)	283522	2.90459	776.6283
20 Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	320785	4.30913	1152.1751(R)
21 Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	196596	2.36450	632.2187
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	175739	2.40911	644.1476
24 Indeno(1,2,3-cd)pyrene	276	10.745	10.745	(1.146)	152839	2.04449	546.6558(M)
25 Dibenzo(a,h)anthracene	278	10.762	10.762	(1.148)	126825	1.96110	524.3592
26 Benzo(g,h,i)perylene	276	11.156	11.162	(1.190)	162003	2.30153	615.3829

QC Flag Legend

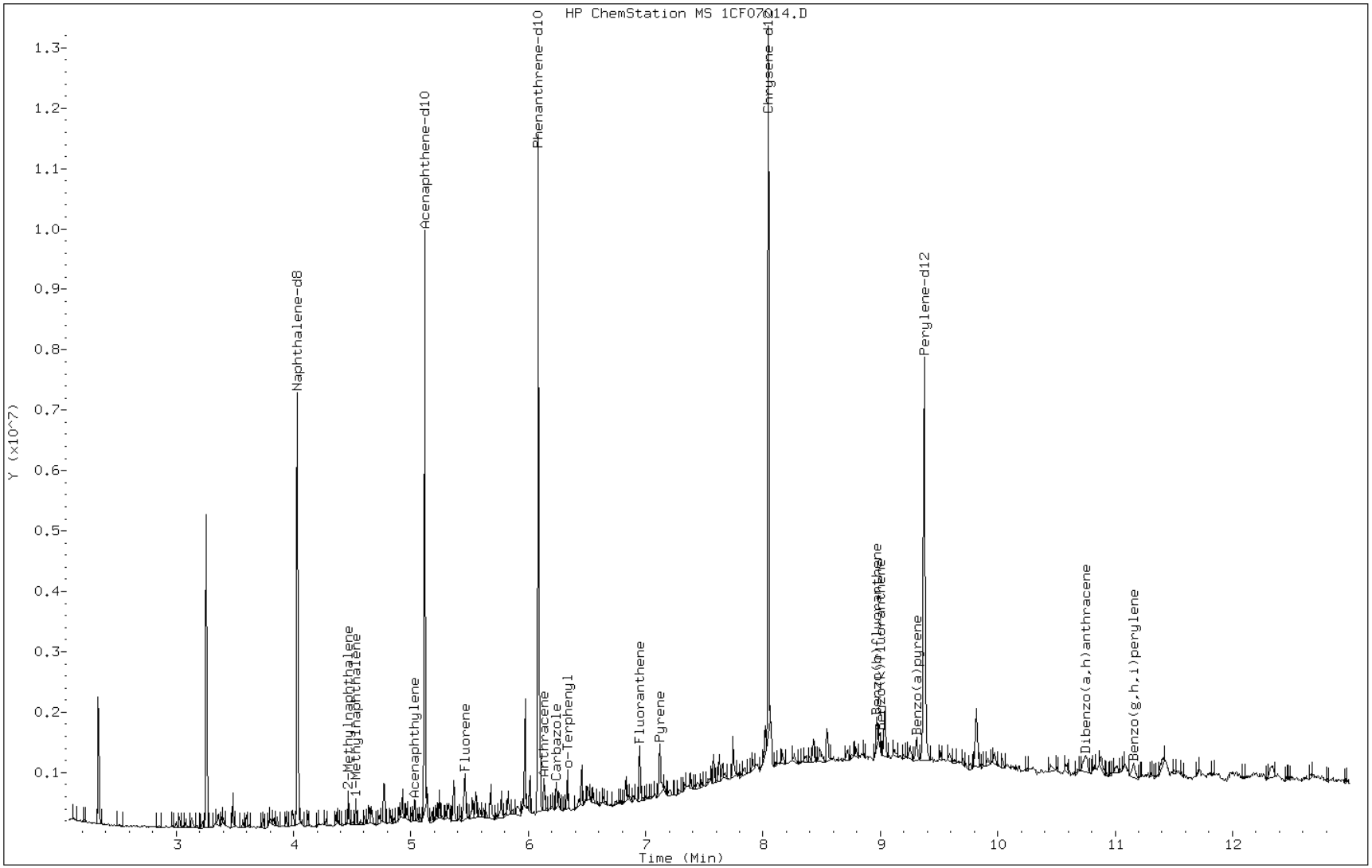
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CF07014.D

Date: 07-JUN-2013 15:00

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90855-a-3-c msd Operator: SCC



Manual Integration Report

Data File: 1CF07014.D
Inj. Date and Time: 07-JUN-2013 15:00
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

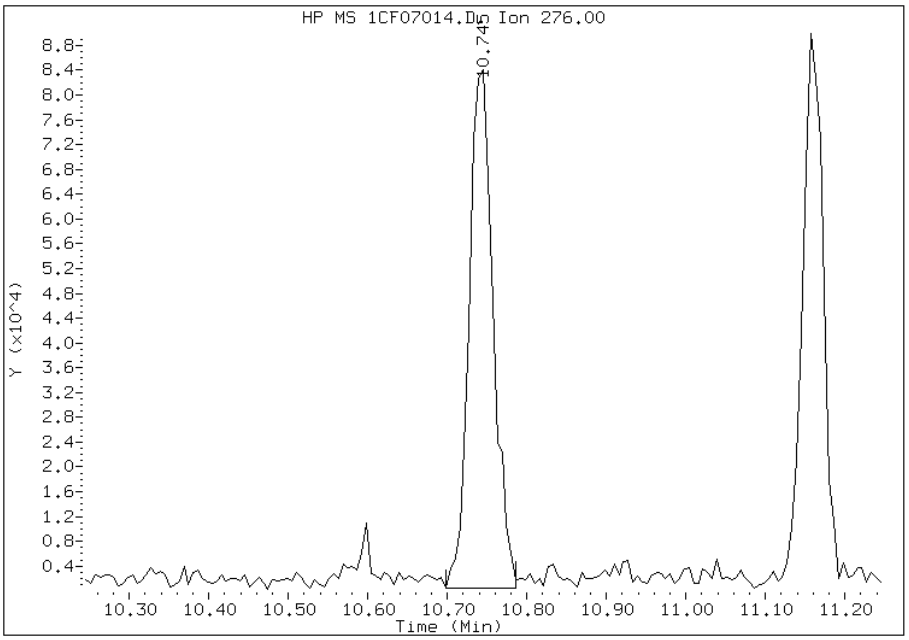
Processing Integration Results

RT: 10.75

Response: 174945

Amount: 2

Conc: 620



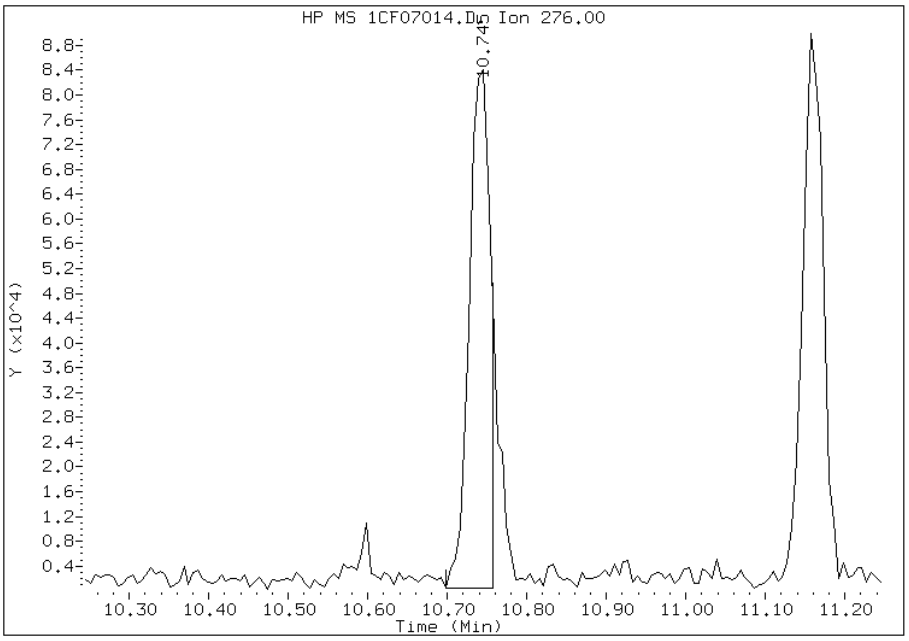
Manual Integration Results

RT: 10.75

Response: 152839

Amount: 2

Conc: 547



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 12:46
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMC5973 Start Date: 05/22/2013 09:37

Analysis Batch Number: 137704 End Date: 05/22/2013 22:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/22/2013 09:37	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 10:04	1		DB-5MS 250(um)
DFTPP 660-137704/2		05/22/2013 10:24	1	1CE22002.D	DB-5MS 250(um)
CCVIS 660-137704/3		05/22/2013 10:41	1		DB-5MS 250(um)
CCV 660-137704/4		05/22/2013 11:07	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 11:28	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 11:49	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:09	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:30	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:51	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:11	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:32	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 15:57	1		DB-5MS 250(um)
IC 660-137704/15		05/22/2013 16:16	1	1CE22014.D	DB-5MS 250(um)
IC 660-137704/16		05/22/2013 16:34	1	1CE22015.D	DB-5MS 250(um)
IC 660-137704/17		05/22/2013 16:52	1	1CE22016.D	DB-5MS 250(um)
IC 660-137704/18		05/22/2013 17:10	1	1CE22017.D	DB-5MS 250(um)
ICIS 660-137704/19		05/22/2013 17:29	1	1CE22018.D	DB-5MS 250(um)
IC 660-137704/20		05/22/2013 17:47	1	1CE22019.D	DB-5MS 250(um)
IC 660-137704/21		05/22/2013 18:05	1	1CE22020.D	DB-5MS 250(um)
ICV 660-137704/22		05/22/2013 18:24	1	1CE22021.D	DB-5MS 250(um)
ZZZZZ		05/22/2013 18:42	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:37	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:32	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:50	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:08	4		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:27	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:45	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 22:03	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMC5973 Start Date: 06/07/2013 10:32

Analysis Batch Number: 138203 End Date: 06/07/2013 22:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/07/2013 10:32	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 10:53	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 11:12	1		DB-5MS 250(um)
DFTPP 660-138203/3		06/07/2013 11:30	1	1CF07003.D	DB-5MS 250(um)
CCVIS 660-138203/4		06/07/2013 11:54	1		DB-5MS 250(um)
CCVIS 660-138203/5		06/07/2013 12:13	1	1CF07005.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 12:32	1		DB-5MS 250(um)
MB 660-138117/1-A		06/07/2013 12:51	1	1CF07007.D	DB-5MS 250(um)
LCS 660-138117/2-A		06/07/2013 13:10	1	1CF07008.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 13:28	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 13:47	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 14:05	1		DB-5MS 250(um)
680-90855-3	CV1017A-CS	06/07/2013 14:23	4	1CF07012.D	DB-5MS 250(um)
680-90855-3 MS	CV1017A-CS MS	06/07/2013 14:42	4	1CF07013.D	DB-5MS 250(um)
680-90855-3 MSD	CV1017A-CS MSD	06/07/2013 15:00	4	1CF07014.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 15:19	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 15:37	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 15:55	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 16:13	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 16:32	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 16:50	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 17:08	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 17:27	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 17:45	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:03	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:21	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:40	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:58	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 19:16	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 19:34	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 19:52	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 20:11	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 20:29	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 20:47	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 21:06	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 21:24	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 21:42	1		DB-5MS 250(um)
680-90855-1	CV0185A-CS	06/07/2013 22:01	1	1CF07037.D	DB-5MS 250(um)
680-90855-2	CV0185A-CSD	06/07/2013 22:19	1	1CF07038.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Start Date: 05/23/2013 10:28

Analysis Batch Number: 137830 End Date: 05/23/2013 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 10:28	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 10:50	1		DB-5MS 250(um)
DFTPP 660-137830/2		05/23/2013 11:20	1	1DE23002.D	DB-5MS 250(um)
IC 660-137830/3		05/23/2013 13:03	1	1DE23003.D	DB-5MS 250(um)
IC 660-137830/4		05/23/2013 13:26	1	1DE23004.D	DB-5MS 250(um)
IC 660-137830/5		05/23/2013 13:48	1	1DE23005.D	DB-5MS 250(um)
IC 660-137830/6		05/23/2013 14:11	1	1DE23006.D	DB-5MS 250(um)
ICIS 660-137830/7		05/23/2013 14:33	1	1DE23007.D	DB-5MS 250(um)
IC 660-137830/8		05/23/2013 14:56	1	1DE23008.D	DB-5MS 250(um)
IC 660-137830/9		05/23/2013 15:19	1	1DE23009.D	DB-5MS 250(um)
ICV 660-137830/10		05/23/2013 15:41	1	1DE23010.D	DB-5MS 250(um)
CCVIS 660-137830/12		05/23/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 19:34	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 20:41	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 21:27	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 22:12	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 22:34	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 22:57	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 23:19	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 23:42	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Start Date: 06/07/2013 10:36

Analysis Batch Number: 138205 End Date: 06/07/2013 22:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/07/2013 10:36	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 10:58	1		DB-5MS 250(um)
DFTPP 660-138205/2		06/07/2013 11:23	1	1DF07002.D	DB-5MS 250(um)
CCVIS 660-138205/3		06/07/2013 11:55	1		DB-5MS 250(um)
CCVIS 660-138205/4		06/07/2013 12:17	1	1DF07004.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 12:40	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 13:07	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 13:30	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 14:15	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 14:38	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 15:01	1		DB-5MS 250(um)
MB 660-138156/1-A		06/07/2013 15:23	1	1DF07012.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 16:31	1		DB-5MS 250(um)
LCS 660-138156/2-A		06/07/2013 16:54	1	1DF07016.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 17:17	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 17:39	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:02	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 18:47	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 19:09	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 19:32	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 20:17	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 20:40	1		DB-5MS 250(um)
680-90855-A-21-B MS		06/07/2013 21:02	1	1DF07027.D	DB-5MS 250(um)
680-90855-A-21-C MSD		06/07/2013 21:25	1	1DF07028.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 21:48	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 22:10	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 22:33	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: BSMD5973 Start Date: 06/11/2013 10:56

Analysis Batch Number: 138352 End Date: 06/11/2013 21:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/11/2013 10:56	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 11:19	1		DB-5MS 250(um)
DFTPP 660-138352/2		06/11/2013 11:44	1	1DF11002.D	DB-5MS 250(um)
CCVIS 660-138352/3		06/11/2013 12:00	1	1DF11003.D	DB-5MS 250(um)
ZZZZZ		06/11/2013 12:23	1		DB-5MS 250(um)
MB 660-138190/1-A		06/11/2013 12:45	1	1DF11005.D	DB-5MS 250(um)
LCS 660-138190/2-A		06/11/2013 13:08	1	1DF11006.D	DB-5MS 250(um)
680-90855-4	CV1025A-CS	06/11/2013 13:30	1	1DF11007.D	DB-5MS 250(um)
680-90855-5	CV1029A-CS	06/11/2013 13:53	1	1DF11008.D	DB-5MS 250(um)
680-90855-6	CV1112A-CS	06/11/2013 14:15	4	1DF11009.D	DB-5MS 250(um)
680-90855-7	CV1167A-CS	06/11/2013 14:38	4	1DF11010.D	DB-5MS 250(um)
680-90855-8	CV1167B-CS	06/11/2013 15:00	4	1DF11011.D	DB-5MS 250(um)
680-90855-9	FM0308A-CS	06/11/2013 15:23	1	1DF11012.D	DB-5MS 250(um)
680-90855-10	FM0308A-CSD	06/11/2013 15:46	1	1DF11013.D	DB-5MS 250(um)
680-90855-11	FM0308B-CS	06/11/2013 16:08	1	1DF11014.D	DB-5MS 250(um)
680-90855-12	FM0308C-CS	06/11/2013 16:31	1	1DF11015.D	DB-5MS 250(um)
680-90855-13	FM0308D-CS	06/11/2013 16:53	4	1DF11016.D	DB-5MS 250(um)
680-90855-14	FM0308E-CS	06/11/2013 17:16	4	1DF11017.D	DB-5MS 250(um)
680-90855-15	FM0308F-CS	06/11/2013 17:38	4	1DF11018.D	DB-5MS 250(um)
680-90855-16	FM0097A-CS	06/11/2013 18:01	1	1DF11019.D	DB-5MS 250(um)
680-90855-17	FM0097A-CSD	06/11/2013 18:24	1	1DF11020.D	DB-5MS 250(um)
680-90855-18	FM0097B-CS	06/11/2013 18:46	1	1DF11021.D	DB-5MS 250(um)
680-90855-19	FM0097C-CS	06/11/2013 19:09	1	1DF11022.D	DB-5MS 250(um)
680-90855-20	FM0097D-CS	06/11/2013 19:31	1	1DF11023.D	DB-5MS 250(um)
ZZZZZ		06/11/2013 19:54	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:16	4		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:39	1		DB-5MS 250(um)
680-91068-A-12-B MS		06/11/2013 21:01	1	1DF11027.D	DB-5MS 250(um)
680-91068-A-12-C MSD		06/11/2013 21:24	1	1DF11028.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 138117 Batch Start Date: 06/05/13 15:09 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 06/06/13 12:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00183		
MB 660-138117/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-138117/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL		
680-90855-A-3	CV1017A-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-90855-A-3 MS	CV1017A-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-90855-A-3 MSD	CV1017A-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00052(1531881)
Balance ID	B001
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ID:DCM/ACETON_00086(1562106)
Exchange Solvent Name	ID:DCM/ACETON_00086(1562106)
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_00058(1560904)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00086(1562106)
Microwave Start Time	17:15 6/5/13
Microwave Stop Time	18:20 6/5/13
MS Lot Number	680-90855-3
Na2SO4 Lot Number	ID:EX-NA2SO4A_00067(1552138)
Ottawa Sand Lot #	ID:OTTAWA SAND_00020(1562146)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00183(1562138)
Water Bath ID	Turbo Vap #1-4
Water Bath Temperature	40

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.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 138117 Batch Start Date: 06/05/13 15:09 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 06/06/13 12:44

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 138156 Batch Start Date: 06/06/13 14:10 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 06/07/13 12:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00183		
MB 660-138156/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-138156/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-90855-A-1	CV0185A-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-90855-A-2	CV0185A-CSD	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-90855-A-21 MS		3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-90855-A-21 MSD		3546, 8270C LL	T	15.11 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00052(1531881)
Balance ID	B001
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ID:DCM/ACETON_00086(1562106)
Exchange Solvent Name	ID:DCM/ACETON_00086(1562106)
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_00058(1560904)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00086(1562106)
Microwave Start Time	17:30 6/6/13
Microwave Stop Time	18:05 6/6/13
MS Lot Number	680-90855-21
Na2SO4 Lot Number	ID:EX-NA2SO4A_00067(1552132)
Ottawa Sand Lot #	ID:OTTAWA SAND_00020(1562146)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00183(1562144)
Water Bath ID	Turbo Vap # 1-4
Water Bath Temperature	40

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.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 138156 Batch Start Date: 06/06/13 14:10 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 06/07/13 12:22

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 138190 Batch Start Date: 06/07/13 10:07 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/07/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00183		
MB 660-138190/1		3546, 8270C LL		15.19 g	1 mL		1 mL		
LCS 660-138190/2		3546, 8270C LL		14.99 g	1 mL	1 mL	1 mL		
680-90855-A-4	CV1025A-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-90855-A-5	CV1029A-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-90855-A-6	CV1112A-CS	3546, 8270C LL	T	15.29 g	1 mL		1 mL		
680-90855-A-7	CV1167A-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-90855-A-8	CV1167B-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-90855-A-9	FM0308A-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-90855-A-10	FM0308A-CSD	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-90855-A-11	FM0308B-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-90855-A-12	FM0308C-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-90855-A-13	FM0308D-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-90855-A-14	FM0308E-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-90855-A-15	FM0308F-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-90855-A-16	FM0097A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-90855-A-17	FM0097A-CSD	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-90855-A-18	FM0097B-CS	3546, 8270C LL	T	15.42 g	1 mL		1 mL		
680-90855-A-19	FM0097C-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-90855-A-20	FM0097D-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-91068-A-12 MS		3546, 8270C LL	T	15.31 g	1 mL	1 mL	1 mL		
680-91068-A-12 MSD		3546, 8270C LL	T	15.31 g	1 mL	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.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 138190 Batch Start Date: 06/07/13 10:07 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/07/13 15:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	DCM/ACETON 90
Microwave Start Time	11:40 6/7/13
Microwave Stop Time	12:15 6/7/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 20
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	ABRAHAM
Surrogate Lot Number	EXLLSURINT 183
Water Bath ID	TURBOVAP2 #1-3
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: 680-90855-1

SDG No.: 68090855-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0185A-CS	680-90855-1
CV0185A-CSD	680-90855-2
CV1017A-CS	680-90855-3
CV1025A-CS	680-90855-4
CV1029A-CS	680-90855-5
CV1112A-CS	680-90855-6
CV1167A-CS	680-90855-7
CV1167B-CS	680-90855-8
FM0308A-CS	680-90855-9
FM0308A-CSD	680-90855-10
FM0308B-CS	680-90855-11
FM0308C-CS	680-90855-12
FM0308D-CS	680-90855-13
FM0308E-CS	680-90855-14
FM0308F-CS	680-90855-15
FM0097A-CS	680-90855-16
FM0097A-CSD	680-90855-17
FM0097B-CS	680-90855-18
FM0097C-CS	680-90855-19
FM0097D-CS	680-90855-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90855-1

SDG Number: 68090855-1

Matrix: Solid Instrument ID: Moisture

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: 680-90855-1

SDG Number: 68090855-1

Matrix: Solid Instrument ID: Moisture

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

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90855-1

SDG Number: 68090855-1

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: 680-90855-1

SDG Number: 68090855-1

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.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: Moisture Method: Moisture

Start Date: 06/03/2013 06:25 End Date: 06/03/2013 08:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
LCSD 660-137982/22	1	T	06:25	X																			
LCS 660-137982/1	1	T	06:27	X																			
ZZZZZZ			06:30																				
ZZZZZZ			06:33																				
ZZZZZZ			06:38																				
ZZZZZZ			06:39																				
ZZZZZZ			06:43																				
ZZZZZZ			06:51																				
ZZZZZZ			06:59																				
ZZZZZZ			07:00																				
ZZZZZZ			07:05																				
ZZZZZZ			07:07																				
ZZZZZZ			07:12																				
ZZZZZZ			07:16																				
ZZZZZZ			07:30																				
ZZZZZZ			07:37																				
ZZZZZZ			07:41																				
ZZZZZZ			08:02																				
ZZZZZZ			08:04																				
680-90855-10	1	T	08:16	X																			
680-90855-1	1	T	08:21	X																			
ZZZZZZ			08:39																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: Moisture Method: Moisture

Start Date: 06/03/2013 08:49 End Date: 06/03/2013 12:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
LCS 660-137998/1	1	T	08:49	X																			
LCSD 660-137998/22	1	T	08:49	X																			
680-90855-9	1	T	09:23	X																			
680-90855-4	1	T	09:24	X																			
680-90855-7	1	T	09:40	X																			
680-90855-8	1	T	09:43	X																			
680-90855-2	1	T	09:50	X																			
680-90855-15	1	T	10:08	X																			
680-90855-5	1	T	10:14	X																			
680-90855-6	1	T	10:35	X																			
ZZZZZZ			10:40																				
680-90855-13	1	T	10:44	X																			
680-90855-17	1	T	11:00	X																			
680-90855-16	1	T	11:00	X																			
ZZZZZZ			11:31																				
680-90855-19	1	T	11:35	X																			
680-90855-11	1	T	11:40	X																			
ZZZZZZ			11:58																				
680-90855-14	1	T	11:59	X																			
680-90855-12	1	T	12:10	X																			
680-90855-20	1	T	12:25	X																			
680-90855-18	1	T	12:43	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa
Job No.: 680-90855-1
SDG No.: 68090855-1
Instrument ID: NOEQUIP
Method: Moisture
Start Date: 06/03/2013 06:43
End Date: 06/03/2013 06:43

				Analytes																			
Lab Sample ID	D/F	Type	Time	Moist																			
ZZZZZZ			06:43																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-90855-1

SDG No.: 68090855-1

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 06/03/2013 06:43   End Date: 06/03/2013 06:43

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
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ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
680-90855-3	1	T	06:43	X																			
680-90855-3 MS	1	T	06:43	X																			
680-90855-3 MSD	1	T	06:43	X																			
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 137974 Batch Start Date: 06/03/13 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		
680-90855-A-3	CV1017A-CS	Moisture	T	51	0 g	4.34 g	3.90 g		
680-90855-A-3 MS	CV1017A-CS	Moisture	T	51	0 g	4.34 g	3.90 g		
680-90855-A-3 MSD	CV1017A-CS	Moisture	T	51	0 g	4.34 g	3.90 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	6.36.13

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 BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 137982 Batch Start Date: 06/03/13 06:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137982/1		Moisture		0 g	10.012 g	9.014 g			
680-90855-A-1	CV0185A-CS	Moisture	T	0 g	4.655 g	4.111 g			
680-90855-A-10	FM0308A-CSD	Moisture	T	0 g	4.208 g	3.653 g			
LCSD 660-137982/22		Moisture		0 g	10.022 g	9.01 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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 BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-1

SDG No.: 68090855-1

Batch Number: 137998 Batch Start Date: 06/03/13 08:49 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137998/1		Moisture		0 g	10.03 g	9.023 g			
680-90855-A-4	CV1025A-CS	Moisture	T	0 g	4.903 g	4.516 g			
680-90855-A-7	CV1167A-CS	Moisture	T	0 g	4.484 g	3.769 g			
680-90855-A-5	CV1029A-CS	Moisture	T	0 g	4.114 g	3.514 g			
680-90855-A-17	FM0097A-CSD	Moisture	T	0 g	4.457 g	3.716 g			
680-90855-A-19	FM0097C-CS	Moisture	T	0 g	4.611 g	4.122 g			
680-90855-A-12	FM0308C-CS	Moisture	T	0 g	4.954 g	4.442 g			
680-90855-A-20	FM0097D-CS	Moisture	T	0 g	4.585 g	3.911 g			
680-90855-A-18	FM0097B-CS	Moisture	T	0 g	4.656 g	3.857 g			
680-90855-A-14	FM0308E-CS	Moisture	T	0 g	4.507 g	3.74 g			
680-90855-A-11	FM0308B-CS	Moisture	T	0 g	4.716 g	4.151 g			
680-90855-A-16	FM0097A-CS	Moisture	T	0 g	4.771 g	3.992 g			
680-90855-A-13	FM0308D-CS	Moisture	T	0 g	4.276 g	3.7 g			
680-90855-A-6	CV1112A-CS	Moisture	T	0 g	4.806 g	4.262 g			
680-90855-A-15	FM0308F-CS	Moisture	T	0 g	4.513 g	3.913 g			
680-90855-A-2	CV0185A-CSD	Moisture	T	0 g	4.361 g	3.828 g			
680-90855-A-8	CV1167B-CS	Moisture	T	0 g	4.246 g	3.238 g			
680-90855-A-9	FM0308A-CS	Moisture	T	0 g	4.561 g	3.961 g			
LCSD 660-137998/22		Moisture		0 g	10.021 g	9.015 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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 64264

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: Test Am Tampa
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Renewal	200548-1356	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE 10 Calendar Days

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: 4L PAH	RCRA 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-30-13	0850	CV0185A-CS	C		X			X				
	0850	CV0185A-CSD	C		X			X				
	0940	CV1017A-CS	C		X			X	X			
	1015	CV1025A-CS	C		X			X				
	1030	CV1029A-CS	C		X			X				
	1036	CV1112A-CS	C		X			X				
	1059	CV1167A-CS	C		X			X				
	1103	CV1167B-CS	C		X			X				
	0856	FM0308A-CS	C		X			X				
	0856	FM0308A-CSD	C		X			X				
	0920	FM0308B-CS	C		X			X				
	0933	FM0308C-CS	C		X			X				

680-90855-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-30-13	1600	[signature]	6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	06/04/13	0855

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90855	5.2° C on 7

2.2°C

TAL8240-680 (1008)

Serial Number 64265

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	20157748-1356	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

PAGE 2 OF 3

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) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	REQUIRED ANALYSIS: Remarks	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE									
5-30-13	0944	FM0308 D-CS	C		X			X			
	0953	FM0308 E-CS	C		X			X	X	2	
	1000	FM0308 F-CS	C		X			X		1	
	1310	FM0097A-CS	C		X			X			
	1310	FM0097A-CSD	C		X			X			
	1330	FM0097B-CS	C		X			X			
	1350	FM0097C-CS	C		X			X			
	1400	FM0097D-CS	C		X			X			
	1320	CV1285A-CS	C		X			X			
	1330	CV1285B-CS	C		X			X			
	1335	CV1285C-CS	C		X			X			
	0940	CV1017A-CS (Sieve)	C		X				X		

680-90855-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-30-13	1600		6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
							06/04/13	0655

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90855	2.2°C

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
SDG Number: 68090855-1

Login Number: 90855
List Source: TestAmerica Savannah
List Number: 1
Creator: Daughtry, Beth

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.	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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
SDG Number: 68090855-1

Login Number: 90855
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/31/13 05:45 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.	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?	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: 680-90855-1
TestAmerica Sample Delivery Group: 68090855-1
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:
6/14/2013 5:06:34 PM
Bernard Kirkland, Project Manager I
(912)354-7858 e.3238
bernard.kirkland@testamericainc.com

Designee for

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

Job ID: 680-90855-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90855-1

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0185A-CS (680-90855-1), CV0185A-CSD (680-90855-2), CV1017A-CS (680-90855-3), CV1025A-CS (680-90855-4), CV1029A-CS (680-90855-5), CV1112A-CS (680-90855-6), CV1167A-CS (680-90855-7), CV1167B-CS (680-90855-8), FM0308A-CS (680-90855-9), FM0308A-CSD (680-90855-10), FM0308B-CS (680-90855-11), FM0308C-CS (680-90855-12), FM0308D-CS (680-90855-13), FM0308E-CS (680-90855-14), FM0308F-CS (680-90855-15), FM0097A-CS (680-90855-16), FM0097A-CSD (680-90855 17), FM0097B CS (680 90855 18), FM0097C CS (680-90855 19) and FM0097D CS (680-90855 20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/05/2013, 06/06/2013 and 06/07/2013 and analyzed on 06/07/2013 and 06/11/2013.

Samples CV1017A-CS (680-90855-3)[4X], CV1112A-CS (680-90855-6)[4X], CV1167A-CS (680-90855-7)[4X], CV1167B-CS (680-90855-8)[4X], FM0308D-CS (680-90855-13)[4X], FM0308E-CS (680-90855-14)[4X] and FM0308F-CS (680-90855-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-138117/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1017A-CS (680-90855-3) in batch 660-138203.

Benzo[a]pyrene and Benzo[g,h,i]perylene recovered outside the recovery criteria for the MS of sample 680-91068-12 in batch 660-138352.

Fluoranthene failed the recovery criteria high for the MSD of sample 680-91068-12 in batch 660-138352. Benzo[a]anthracene, Fluoranthene, Phenanthrene and Pyrene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other 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: 680-90855-1
SDG: 68090855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90855-1	CV0185A-CS	Solid	05/30/13 08:50	05/31/13 08:53
680-90855-2	CV0185A-CSD	Solid	05/30/13 08:50	05/31/13 08:53
680-90855-3	CV1017A-CS	Solid	05/30/13 09:40	05/31/13 08:53
680-90855-4	CV1025A-CS	Solid	05/30/13 10:15	05/31/13 08:53
680-90855-5	CV1029A-CS	Solid	05/30/13 10:30	05/31/13 08:53
680-90855-6	CV1112A-CS	Solid	05/30/13 10:36	05/31/13 08:53
680-90855-7	CV1167A-CS	Solid	05/30/13 10:59	05/31/13 08:53
680-90855-8	CV1167B-CS	Solid	05/30/13 11:03	05/31/13 08:53
680-90855-9	FM0308A-CS	Solid	05/30/13 08:56	05/31/13 08:53
680-90855-10	FM0308A-CSD	Solid	05/30/13 08:56	05/31/13 08:53
680-90855-11	FM0308B-CS	Solid	05/30/13 09:20	05/31/13 08:53
680-90855-12	FM0308C-CS	Solid	05/30/13 09:33	05/31/13 08:53
680-90855-13	FM0308D-CS	Solid	05/30/13 09:44	05/31/13 08:53
680-90855-14	FM0308E-CS	Solid	05/30/13 09:53	05/31/13 08:53
680-90855-15	FM0308F-CS	Solid	05/30/13 10:00	05/31/13 08:53
680-90855-16	FM0097A-CS	Solid	05/30/13 13:10	05/31/13 08:53
680-90855-17	FM0097A-CSD	Solid	05/30/13 13:10	05/31/13 08:53
680-90855-18	FM0097B-CS	Solid	05/30/13 13:30	05/31/13 08:53
680-90855-19	FM0097C-CS	Solid	05/30/13 13:50	05/31/13 08:53
680-90855-20	FM0097D-CS	Solid	05/30/13 14:00	05/31/13 08:53

Method Summary

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

TestAmerica Job ID: 680-90855-1
SDG: 68090855-1

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
U	Indicates the analyte was analyzed for but not detected.
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds he control limits
B	Compound was found in the blank and sample.

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)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ra io
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: 680-90855-1
SDG: 68090855-1

Client Sample ID: CV0185A-CS

Lab Sample ID: 680-90855-1

Date Collected: 05/30/13 08:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Acenaphthylene	**18**	**J**	45	5.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Anthracene	**17**		9.4	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[a]anthracene	**140**		9.0	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[a]pyrene	**160**		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[b]fluoranthene	**320**		14	6.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[g,h,i]perylene	**170**		22	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Benzo[k]fluoranthene	**91**		9.0	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Chrysene	**190**		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Dibenz(a,h)anthracene	**38**		22	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Fluoranthene	**220**		22	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Fluorene	**17**	**J**	22	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Indeno[1,2,3-cd]pyrene	**130**		22	8.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
1-Methylnaphthalene	**75**		45	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
2-Methylnaphthalene	**95**		45	8.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Naphthalene	**91**		45	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Phenanthrene	**160**		9.0	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1
Pyrene	**200**		22	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:01*	*1*

Client Sample ID: CV0185A-CSD

Lab Sample ID: 680-90855-2

Date Collected: 05/30/13 08:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Acenaphthylene	**12**	**J**	46	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Anthracene	**18**		9.6	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[a]anthracene	**110**		9.1	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[a]pyrene	**120**		12	5.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[b]fluoranthene	**240**		14	7.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[g,h,i]perylene	**120**		23	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Benzo[k]fluoranthene	**61**		9.1	4.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Chrysene	**160**		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Dibenz(a,h)anthracene	**33**		23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Fluoranthene	**160**		23	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Fluorene	**12**	**J**	23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Indeno[1,2,3-cd]pyrene	**100**		23	8.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
1-Methylnaphthalene	**73**		46	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
2-Methylnaphthalene	**90**		46	8.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Naphthalene	**57**		46	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Phenanthrene	**130**		9.1	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1
Pyrene	**150**		23	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:19*	*1*

Client Sample ID: CV1017A-CS

Lab Sample ID: 680-90855-3

Date Collected: 05/30/13 09:40
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	89	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Acenaphthylene	**75**	**J**	180	22	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Anthracene	**160**		37	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[a]anthracene	**650**	**F**	35	17	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[a]pyrene	**540**	**F**	46	23	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[b]fluoranthene	**980**	**F**	54	27	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[g,h,i]perylene	**450**		89	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Benzo[k]fluoranthene	**350**		35	16	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Chrysene	**680**	**F**	40	20	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Dibenz(a,h)anthracene	**150**		89	18	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Fluoranthene	**920**	**F**	89	18	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Fluorene	**74**	**J**	89	18	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Indeno[1,2,3-cd]pyrene	**320**		89	31	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
1-Methylnaphthalene	**220**		180	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
2-Methylnaphthalene	**240**		180	31	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Naphthalene	**180**		180	19	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Phenanthrene	**740**	**B F**	35	17	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4
Pyrene	**870**	**F**	89	16	ug/Kg	☼	06/05/13 15:09	06/07/13 14:23	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*06/05/13 15:09*	*06/07/13 14:23*	*4*

Client Sample ID: CV1025A-CS

Lab Sample ID: 680-90855-4

Date Collected: 05/30/13 10:15
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Acenaphthylene	44	U	44	5.4	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Anthracene	**7.1**	**J**	9.1	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[a]anthracene	**19**		8.7	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[a]pyrene	**24**		11	5.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[b]fluoranthene	**31**		13	6.6	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[g,h,i]perylene	**20**	**J**	22	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Benzo[k]fluoranthene	**12**		8.7	3.9	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Chrysene	**16**		9.8	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Dibenz(a,h)anthracene	**9.6**	**J**	22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Fluoranthene	**23**		22	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Fluorene	22	U	22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Indeno[1,2,3-cd]pyrene	**25**		22	7.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
1-Methylnaphthalene	**8.9**	**J**	44	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
2-Methylnaphthalene	**14**	**J**	44	7.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Naphthalene	**12**	**J**	44	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Phenanthrene	**23**		8.7	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1
Pyrene	**20**	**J**	22	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*06/07/13 10:07*	*06/11/13 13:30*	*1*

Client Sample ID: CV1029A-CS

Lab Sample ID: 680-90855-5

Date Collected: 05/30/13 10:30
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Acenaphthylene	**12**	**J**	47	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Anthracene	**16**		9.8	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[a]anthracene	**46**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[a]pyrene	**43**		12	6.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[b]fluoranthene	**63**		14	7.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[g,h,i]perylene	**30**		23	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Benzo[k]fluoranthene	**21**		9.3	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Chrysene	**54**		10	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Dibenz(a,h)anthracene	**13**	**J**	23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Fluoranthene	**94**		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Fluorene	**5.0**	**J**	23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Indeno[1,2,3-cd]pyrene	**34**		23	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
1-Methylnaphthalene	**13**	**J**	47	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
2-Methylnaphthalene	**17**	**J**	47	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Naphthalene	**23**	**J**	47	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Phenanthrene	**99**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1
Pyrene	**78**		23	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*06/07/13 10:07*	*06/11/13 13:53*	*1*

Client Sample ID: CV1112A-CS

Lab Sample ID: 680-90855-6

Date Collected: 05/30/13 10:36
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	89	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Acenaphthylene	180	U	180	22	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Anthracene	37	U	37	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[a]anthracene	**55**		35	17	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[a]pyrene	**100**		46	23	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[b]fluoranthene	**120**		54	27	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[g,h,i]perylene	**82**	**J**	89	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Benzo[k]fluoranthene	**42**		35	16	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Chrysene	**150**		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Dibenz(a,h)anthracene	**43**	**J**	89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Fluoranthene	**110**		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Fluorene	89	U	89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Indeno[1,2,3-cd]pyrene	**95**		89	31	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
1-Methylnaphthalene	**50**	**J**	180	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
2-Methylnaphthalene	**85**	**J**	180	31	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Naphthalene	**57**	**J**	180	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Phenanthrene	**98**		35	17	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4
Pyrene	**97**		89	16	ug/Kg	☼	06/07/13 10:07	06/11/13 14:15	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*06/07/13 10:07*	*06/11/13 14:15*	*4*

Client Sample ID: CV1167A-CS

Lab Sample ID: 680-90855-7

Date Collected: 05/30/13 10:59
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Acenaphthylene	**40**	**J**	190	24	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Anthracene	**81**		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[a]anthracene	**290**		38	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[a]pyrene	**290**		49	25	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[b]fluoranthene	**460**		58	29	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[g,h,i]perylene	**230**		95	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Benzo[k]fluoranthene	**150**		38	17	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Chrysene	**320**		43	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Dibenz(a,h)anthracene	**84**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Fluoranthene	**440**		95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Fluorene	**28**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Indeno[1,2,3-cd]pyrene	**240**		95	34	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
1-Methylnaphthalene	**130**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
2-Methylnaphthalene	**150**	**J**	190	34	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Naphthalene	**110**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Phenanthrene	**350**		38	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4
Pyrene	**370**		95	18	ug/Kg	☼	06/07/13 10:07	06/11/13 14:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*		*30 - 130*	*06/07/13 10:07*	*06/11/13 14:38*	*4*

Client Sample ID: CV1167B-CS

Lab Sample ID: 680-90855-8

Date Collected: 05/30/13 11:03
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Acenaphthylene	**70**	**J**	210	26	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Anthracene	**140**		44	22	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[a]anthracene	**450**		42	20	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[a]pyrene	**480**		54	27	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[b]fluoranthene	**820**		64	32	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[g,h,i]perylene	**360**		100	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Benzo[k]fluoranthene	**280**		42	19	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Chrysene	**650**		47	24	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Dibenz(a,h)anthracene	**130**		100	21	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Fluoranthene	**690**		100	21	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Fluorene	**34**	**J**	100	21	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Indeno[1,2,3-cd]pyrene	**360**		100	37	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
1-Methylnaphthalene	**300**		210	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
2-Methylnaphthalene	**340**		210	37	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Naphthalene	**230**		210	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Phenanthrene	**600**		42	20	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4
Pyrene	**610**		100	19	ug/Kg	☼	06/07/13 10:07	06/11/13 15:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*06/07/13 10:07*	*06/11/13 15:00*	*4*

Client Sample ID: FM0308A-CS

Lab Sample ID: 680-90855-9

Date Collected: 05/30/13 08:56
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Acenaphthylene	**18**	**J**	46	5.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Anthracene	**24**		9.6	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[a]anthracene	**80**		9.1	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[a]pyrene	**84**		12	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[b]fluoranthene	**140**		14	6.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[g,h,i]perylene	**62**		23	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Benzo[k]fluoranthene	**44**		9.1	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Chrysene	**110**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Dibenz(a,h)anthracene	**24**		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Fluoranthene	**130**		23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Fluorene	**6.5**	**J**	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Indeno[1,2,3-cd]pyrene	**63**		23	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
1-Methylnaphthalene	**67**		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
2-Methylnaphthalene	**88**		46	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Naphthalene	**56**		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Phenanthrene	**110**		9.1	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1
Pyrene	**120**		23	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*06/07/13 10:07*	*06/11/13 15:23*	*1*

Client Sample ID: FM0308A-CSD

Lab Sample ID: 680-90855-10

Date Collected: 05/30/13 08:56
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Acenaphthylene	**21**	**J**	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Anthracene	**22**		9.4	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[a]anthracene	**79**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[a]pyrene	**91**		12	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[b]fluoranthene	**150**		14	6.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[g,h,i]perylene	**69**		22	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Benzo[k]fluoranthene	**53**		9.0	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Chrysene	**110**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Dibenz(a,h)anthracene	**23**		22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Fluoranthene	**130**		22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Fluorene	**5.0**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Indeno[1,2,3-cd]pyrene	**68**		22	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
1-Methylnaphthalene	**52**		45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
2-Methylnaphthalene	**70**		45	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Naphthalene	**50**		45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Phenanthrene	**84**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1
Pyrene	**120**		22	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*06/07/13 10:07*	*06/11/13 15:46*	*1*

Client Sample ID: FM0308B-CS

Lab Sample ID: 680-90855-11

Date Collected: 05/30/13 09:20
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Acenaphthylene	**13**	**J**	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Anthracene	**14**		9.5	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[a]anthracene	**50**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[a]pyrene	**56**		12	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[b]fluoranthene	**91**		14	6.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[g,h,i]perylene	**43**		23	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Benzo[k]fluoranthene	**29**		9.0	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Chrysene	**71**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Dibenz(a,h)anthracene	**18**	**J**	23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Fluoranthene	**84**		23	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Fluorene	**5.1**	**J**	23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Indeno[1,2,3-cd]pyrene	**47**		23	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
1-Methylnaphthalene	**29**	**J**	45	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
2-Methylnaphthalene	**44**	**J**	45	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Naphthalene	**38**	**J**	45	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Phenanthrene	**70**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1
Pyrene	**72**		23	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*06/07/13 10:07*	*06/11/13 16:08*	*1*

Client Sample ID: FM0308C-CS

Lab Sample ID: 680-90855-12

Date Collected: 05/30/13 09:33
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Acenaphthylene	**9.2**	**J**	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Anthracene	**13**		9.4	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[a]anthracene	**58**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[a]pyrene	**65**		12	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[b]fluoranthene	**110**		14	6.8	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[g,h,i]perylene	**50**		22	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Benzo[k]fluoranthene	**32**		9.0	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Chrysene	**81**		10	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Dibenz(a,h)anthracene	**20**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Fluoranthene	**97**		22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Fluorene	**7.1**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Indeno[1,2,3-cd]pyrene	**52**		22	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
1-Methylnaphthalene	**38**	**J**	45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
2-Methylnaphthalene	**63**		45	8.0	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Naphthalene	**53**		45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Phenanthrene	**81**		9.0	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1
Pyrene	**83**		22	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*06/07/13 10:07*	*06/11/13 16:31*	*1*

Client Sample ID: FM0308D-CS

Lab Sample ID: 680-90855-13

Date Collected: 05/30/13 09:44
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Acenaphthylene	**40**	**J**	180	23	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Anthracene	**52**		39	19	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[a]anthracene	**160**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[a]pyrene	**150**		48	24	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[b]fluoranthene	**250**		56	28	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[g,h,i]perylene	**420**		92	20	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Benzo[k]fluoranthene	**60**		37	17	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Chrysene	**200**		41	21	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Dibenz(a,h)anthracene	**58**	**J**	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Fluoranthene	**190**		92	18	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Fluorene	92	U	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Indeno[1,2,3-cd]pyrene	**200**		92	33	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
1-Methylnaphthalene	**240**		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
2-Methylnaphthalene	**390**		180	33	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Naphthalene	**230**		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Phenanthrene	**230**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4
Pyrene	**180**		92	17	ug/Kg	☼	06/07/13 10:07	06/11/13 16:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*06/07/13 10:07*	*06/11/13 16:53*	*4*

Client Sample ID: FM0308E-CS

Lab Sample ID: 680-90855-14

Date Collected: 05/30/13 09:53
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Anthracene	**77**		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[a]anthracene	**180**		38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[a]pyrene	**170**		49	25	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[b]fluoranthene	**250**		58	29	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[g,h,i]perylene	**110**		95	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Benzo[k]fluoranthene	**86**		38	17	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Chrysene	**220**		43	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Dibenz(a,h)anthracene	**58**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Fluoranthene	**290**		95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Fluorene	**36**	**J**	95	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Indeno[1,2,3-cd]pyrene	**130**		95	34	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
1-Methylnaphthalene	**60**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
2-Methylnaphthalene	**120**	**J**	190	34	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Naphthalene	**110**	**J**	190	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Phenanthrene	**290**		38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4
Pyrene	**230**		95	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*06/07/13 10:07*	*06/11/13 17:16*	*4*

Client Sample ID: FM0308F-CS

Lab Sample ID: 680-90855-15

Date Collected: 05/30/13 10:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Acenaphthylene	180	U	180	23	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Anthracene	**22**	**J**	38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[a]anthracene	**110**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[a]pyrene	**130**		48	24	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[b]fluoranthene	**170**		56	28	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[g,h,i]perylene	**72**	**J**	92	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Benzo[k]fluoranthene	**62**		37	16	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Chrysene	**130**		41	21	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Dibenz(a,h)anthracene	**42**	**J**	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Fluoranthene	**160**		92	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Fluorene	92	U	92	19	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Indeno[1,2,3-cd]pyrene	**110**		92	33	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
1-Methylnaphthalene	**42**	**J**	180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
2-Methylnaphthalene	**71**	**J**	180	33	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Naphthalene	**73**	**J**	180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Phenanthrene	**120**		37	18	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4
Pyrene	**130**		92	17	ug/Kg	☼	06/07/13 10:07	06/11/13 17:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/07/13 10:07*	*06/11/13 17:38*	*4*

Client Sample ID: FM0097A-CS

Lab Sample ID: 680-90855-16

Date Collected: 05/30/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Acenaphthylene	**12**	**J**	48	6.0	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Anthracene	**23**		10	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[a]anthracene	**76**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[a]pyrene	**76**		12	6.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[b]fluoranthene	**140**		15	7.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[g,h,i]perylene	**49**		24	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Benzo[k]fluoranthene	**44**		9.6	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Chrysene	**120**		11	5.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Dibenz(a,h)anthracene	**23**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Fluoranthene	**130**		24	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Fluorene	**9.7**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Indeno[1,2,3-cd]pyrene	**55**		24	8.5	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
1-Methylnaphthalene	**48**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
2-Methylnaphthalene	**78**		48	8.5	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Naphthalene	**86**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Phenanthrene	**130**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1
Pyrene	**100**		24	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*06/07/13 10:07*	*06/11/13 18:01*	*1*

Client Sample ID: FM0097A-CSD

Lab Sample ID: 680-90855-17

Date Collected: 05/30/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Acenaphthylene	**11**	**J**	48	6.0	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Anthracene	**21**		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[a]anthracene	**75**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[a]pyrene	**74**		13	6.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[b]fluoranthene	**130**		15	7.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[g,h,i]perylene	**49**		24	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Benzo[k]fluoranthene	**41**		9.6	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Chrysene	**110**		11	5.4	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Dibenz(a,h)anthracene	**23**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Fluoranthene	**120**		24	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Fluorene	**10**	**J**	24	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Indeno[1,2,3-cd]pyrene	**54**		24	8.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
1-Methylnaphthalene	**49**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
2-Methylnaphthalene	**84**		48	8.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Naphthalene	**87**		48	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Phenanthrene	**110**		9.6	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1
Pyrene	**91**		24	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*06/07/13 10:07*	*06/11/13 18:24*	*1*

Client Sample ID: FM0097B-CS

Lab Sample ID: 680-90855-18

Date Collected: 05/30/13 13:30
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Acenaphthylene	**9.2**	**J**	47	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Anthracene	**24**		9.9	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[a]anthracene	**79**		9.4	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[a]pyrene	**84**		12	6.1	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[b]fluoranthene	**150**		14	7.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[g,h,i]perylene	**50**		23	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Benzo[k]fluoranthene	**39**		9.4	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Chrysene	**110**		11	5.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Dibenz(a,h)anthracene	**23**		23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Fluoranthene	**140**		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Fluorene	**12**	**J**	23	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Indeno[1,2,3-cd]pyrene	**59**		23	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
1-Methylnaphthalene	**35**	**J**	47	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
2-Methylnaphthalene	**53**		47	8.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Naphthalene	**62**		47	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Phenanthrene	**130**		9.4	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1
Pyrene	**110**		23	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*06/07/13 10:07*	*06/11/13 18:46*	*1*

Client Sample ID: FM0097C-CS

Lab Sample ID: 680-90855-19

Date Collected: 05/30/13 13:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Acenaphthylene	45	U	45	5.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Anthracene	**10**		9.4	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[a]anthracene	**36**		8.9	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[a]pyrene	**41**		12	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[b]fluoranthene	**65**		14	6.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[g,h,i]perylene	**25**		22	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Benzo[k]fluoranthene	**21**		8.9	4.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Chrysene	**52**		10	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Dibenz(a,h)anthracene	**13**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Fluoranthene	**50**		22	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Fluorene	**5.3**	**J**	22	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Indeno[1,2,3-cd]pyrene	**32**		22	7.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
1-Methylnaphthalene	**24**	**J**	45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
2-Methylnaphthalene	**36**	**J**	45	7.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Naphthalene	**39**	**J**	45	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Phenanthrene	**55**		8.9	4.4	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1
Pyrene	**42**		22	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*06/07/13 10:07*	*06/11/13 19:09*	*1*

Client Sample ID: FM0097D-CS

Lab Sample ID: 680-90855-20

Date Collected: 05/30/13 14:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Acenaphthylene	**7.2**	**J**	46	5.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Anthracene	**12**		9.7	4.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[a]anthracene	**40**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[a]pyrene	**45**		12	6.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[b]fluoranthene	**74**		14	7.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[g,h,i]perylene	**27**		23	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Benzo[k]fluoranthene	**24**		9.3	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Chrysene	**61**		10	5.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Dibenz(a,h)anthracene	**16**	**J**	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Fluoranthene	**55**		23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Fluorene	**6.0**	**J**	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Indeno[1,2,3-cd]pyrene	**37**		23	8.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
1-Methylnaphthalene	**29**	**J**	46	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
2-Methylnaphthalene	**43**	**J**	46	8.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Naphthalene	**49**		46	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Phenanthrene	**67**		9.3	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1
Pyrene	**43**		23	4.3	ug/Kg	☼	06/07/13 10:07	06/11/13 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*06/07/13 10:07*	*06/11/13 19:31*	*1*

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

Lab Sample ID: MB 660-138117/1-A
Matrix: Solid
Analysis Batch: 138203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Fluorene	20	U	20	4.1	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Naphthalene	40	U	40	4.4	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Phenanthrene	4.36	J	8.0	3.9	ug/Kg		06/05/13 15:09	06/07/13 12:51	1
Pyrene	20	U	20	3.7	ug/Kg		06/05/13 15:09	06/07/13 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*06/05/13 15:09*	*06/07/13 12:51*	*1*

Lab Sample ID: LCS 660-138117/2-A
Matrix: Solid
Analysis Batch: 138203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	575		ug/Kg		86	39 - 130
Acenaphthylene	668	552		ug/Kg		83	38 - 130
Anthracene	668	528		ug/Kg		79	37 - 130
Benzo[a]anthracene	668	549		ug/Kg		82	40 - 130
Benzo[a]pyrene	668	488		ug/Kg		73	49 - 130
Benzo[b]fluoranthene	668	611		ug/Kg		91	37 - 130
Benzo[g,h,i]perylene	668	480		ug/Kg		72	32 - 130
Benzo[k]fluoranthene	668	525		ug/Kg		79	32 - 130
Chrysene	668	481		ug/Kg		72	41 - 130
Dibenz(a,h)an hracene	668	532		ug/Kg		80	27 - 130
Fluoranthene	668	630		ug/Kg		94	40 - 130
Fluorene	668	586		ug/Kg		88	40 - 130
Indeno[1,2,3-cd]pyrene	668	456		ug/Kg		68	30 - 130
1-Methylnaphthalene	668	534		ug/Kg		80	31 - 130
2-Methylnaphthalene	668	574		ug/Kg		86	33 - 130
Naphthalene	668	453		ug/Kg		68	36 - 130
Phenanthrene	668	506		ug/Kg		76	42 - 130
Pyrene	668	467		ug/Kg		70	44 - 130

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

Lab Sample ID: LCS 660-138117/2-A
Matrix: Solid
Analysis Batch: 138203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	85		30 - 130

Lab Sample ID: 680-90855-3 MS
Matrix: Solid
Analysis Batch: 138203

Client Sample ID: CV1017A-CS
Prep Type: Total/NA
Prep Batch: 138117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	440	U	744	554		ug/Kg	☼	74	39 - 130
Acenaphthylene	75	J	744	657		ug/Kg	☼	78	38 - 130
Anthracene	160		744	591		ug/Kg	☼	57	37 - 130
Benzo[a]anthracene	650	F	744	820	F	ug/Kg	☼	23	40 - 130
Benzo[a]pyrene	540	F	744	786	F	ug/Kg	☼	33	49 - 130
Benzo[b]fluoranthene	980	F	744	1090	F	ug/Kg	☼	14	37 - 130
Benzo[g,h,i]perylene	450		744	687		ug/Kg	☼	32	32 - 130
Benzo[k]fluoranthene	350		744	861		ug/Kg	☼	69	32 - 130
Chrysene	680	F	744	882	F	ug/Kg	☼	27	41 - 130
Dibenz(a,h)an hracene	150		744	570		ug/Kg	☼	56	27 - 130
Fluoranthene	920	F	744	950	F	ug/Kg	☼	4	40 - 130
Fluorene	74	J	744	577		ug/Kg	☼	68	40 - 130
Indeno[1,2,3-cd]pyrene	320		744	601		ug/Kg	☼	38	30 - 130
1-Methylnaphthalene	220		744	777		ug/Kg	☼	74	31 - 130
2-Methylnaphthalene	240		744	839		ug/Kg	☼	81	33 - 130
Naphthalene	180		744	544		ug/Kg	☼	48	36 - 130
Phenanthrene	740	B F	744	815	F	ug/Kg	☼	10	42 - 130
Pyrene	870	F	744	858	F	ug/Kg	☼	-2	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	71		30 - 130

Lab Sample ID: 680-90855-3 MSD
Matrix: Solid
Analysis Batch: 138203

Client Sample ID: CV1017A-CS
Prep Type: Total/NA
Prep Batch: 138117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	440	U	744	592		ug/Kg	☼	80	39 - 130	7	40
Acenaphthylene	75	J	744	587		ug/Kg	☼	69	38 - 130	11	40
Anthracene	160		744	614		ug/Kg	☼	60	37 - 130	4	40
Benzo[a]anthracene	650	F	744	780	F	ug/Kg	☼	18	40 - 130	5	40
Benzo[a]pyrene	540	F	744	717	F	ug/Kg	☼	24	49 - 130	9	40
Benzo[b]fluoranthene	980	F	744	1280		ug/Kg	☼	40	37 - 130	16	40
Benzo[g,h,i]perylene	450		744	685		ug/Kg	☼	32	32 - 130	0	40
Benzo[k]fluoranthene	350		744	704		ug/Kg	☼	48	32 - 130	20	40
Chrysene	680	F	744	864	F	ug/Kg	☼	25	41 - 130	2	40
Dibenz(a,h)an hracene	150		744	584		ug/Kg	☼	58	27 - 130	2	40
Fluoranthene	920	F	744	919	F	ug/Kg	☼	-0.4	40 - 130	3	40
Fluorene	74	J	744	621		ug/Kg	☼	74	40 - 130	7	40
Indeno[1,2,3-cd]pyrene	320		744	608		ug/Kg	☼	39	30 - 130	1	40
1-Methylnaphthalene	220		744	767		ug/Kg	☼	73	31 - 130	1	40

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

Lab Sample ID: 680-90855-3 MSD
Matrix: Solid
Analysis Batch: 138203

Client Sample ID: CV1017A-CS
Prep Type: Total/NA
Prep Batch: 138117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	240		744	821		ug/Kg	☼	78	33 - 130	2	40
Naphthalene	180		744	523		ug/Kg	☼	45	36 - 130	4	40
Phenanthrene	740	B F	744	881	F	ug/Kg	☼	18	42 - 130	8	40
Pyrene	870	F	744	797	F	ug/Kg	☼	10	44 - 130	7	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*75*		*30 - 130*

Lab Sample ID: MB 660-138156/1-A
Matrix: Solid
Analysis Batch: 138205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Fluorene	20	U	20	4.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Naphthalene	40	U	40	4.4	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Pyrene	20	U	20	3.7	ug/Kg		06/06/13 14:10	06/07/13 15:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*06/06/13 14:10*	*06/07/13 15:23*	*1*

Lab Sample ID: LCS 660-138156/2-A
Matrix: Solid
Analysis Batch: 138205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	504		ug/Kg		75	39 - 130
Acenaphthylene	669	551		ug/Kg		82	38 - 130
Anthracene	669	555		ug/Kg		83	37 - 130
Benzo[a]anthracene	669	486		ug/Kg		73	40 - 130
Benzo[a]pyrene	669	496		ug/Kg		74	49 - 130
Benzo[b]fluoranthene	669	541		ug/Kg		81	37 - 130
Benzo[g,h,i]perylene	669	555		ug/Kg		83	32 - 130
Benzo[k]fluoranthene	669	537		ug/Kg		80	32 - 130

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

Lab Sample ID: LCS 660-138156/2-A
Matrix: Solid
Analysis Batch: 138205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	669	492		ug/Kg		74	41 - 130
Dibenz(a,h)an hracene	669	532		ug/Kg		80	27 - 130
Fluoranthene	669	539		ug/Kg		81	40 - 130
Fluorene	669	547		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	669	512		ug/Kg		77	30 - 130
1-Methylnaphthalene	669	509		ug/Kg		76	31 - 130
2-Methylnaphthalene	669	541		ug/Kg		81	33 - 130
Naphthalene	669	523		ug/Kg		78	36 - 130
Phenanthrene	669	531		ug/Kg		79	42 - 130
Pyrene	669	508		ug/Kg		76	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*75*		*30 - 130*

Lab Sample ID: MB 660-138190/1-A
Matrix: Solid
Analysis Batch: 138352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Acenaphthylene	39	U	39	4.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Anthracene	8.3	U	8.3	4.1	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Dibenz(a,h)an hracene	20	U	20	4.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Fluoranthene	20	U	20	3.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Fluorene	20	U	20	4.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Naphthalene	39	U	39	4.3	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Pyrene	20	U	20	3.7	ug/Kg		06/07/13 10:07	06/11/13 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*06/07/13 10:07*	*06/11/13 12:45*	*1*

Lab Sample ID: LCS 660-138190/2-A
Matrix: Solid
Analysis Batch: 138352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	407		ug/Kg		61	39 - 130
Acenaphthylene	667	445		ug/Kg		67	38 - 130

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

Lab Sample ID: LCS 660-138190/2-A
Matrix: Solid
Analysis Batch: 138352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	667	439		ug/Kg		66	37 - 130
Benzo[a]anthracene	667	399		ug/Kg		60	40 - 130
Benzo[a]pyrene	667	398		ug/Kg		60	49 - 130
Benzo[b]fluoranthene	667	451		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	667	414		ug/Kg		62	32 - 130
Benzo[k]fluoranthene	667	426		ug/Kg		64	32 - 130
Chrysene	667	382		ug/Kg		57	41 - 130
Dibenz(a,h)an hracene	667	408		ug/Kg		61	27 - 130
Fluoranthene	667	435		ug/Kg		65	40 - 130
Fluorene	667	452		ug/Kg		68	40 - 130
Indeno[1,2,3-cd]pyrene	667	391		ug/Kg		59	30 - 130
1-Methylnaphthalene	667	418		ug/Kg		63	31 - 130
2-Methylnaphthalene	667	446		ug/Kg		67	33 - 130
Naphthalene	667	417		ug/Kg		62	36 - 130
Phenanthrene	667	430		ug/Kg		64	42 - 130
Pyrene	667	413		ug/Kg		62	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*62*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 138117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-3	CV1017A-CS	Total/NA	Solid	3546	
680-90855-3 MS	CV1017A-CS	Total/NA	Solid	3546	
680-90855-3 MSD	CV1017A-CS	Total/NA	Solid	3546	
LCS 660-138117/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138117/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 138156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-1	CV0185A-CS	Total/NA	Solid	3546	
680-90855-2	CV0185A-CSD	Total/NA	Solid	3546	
LCS 660-138156/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138156/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 138190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-4	CV1025A-CS	Total/NA	Solid	3546	
680-90855-5	CV1029A-CS	Total/NA	Solid	3546	
680-90855-6	CV1112A-CS	Total/NA	Solid	3546	
680-90855-7	CV1167A-CS	Total/NA	Solid	3546	
680-90855-8	CV1167B-CS	Total/NA	Solid	3546	
680-90855-9	FM0308A-CS	Total/NA	Solid	3546	
680-90855-10	FM0308A-CSD	Total/NA	Solid	3546	
680-90855-11	FM0308B-CS	Total/NA	Solid	3546	
680-90855-12	FM0308C-CS	Total/NA	Solid	3546	
680-90855-13	FM0308D-CS	Total/NA	Solid	3546	
680-90855-14	FM0308E-CS	Total/NA	Solid	3546	
680-90855-15	FM0308F-CS	Total/NA	Solid	3546	
680-90855-16	FM0097A-CS	Total/NA	Solid	3546	
680-90855-17	FM0097A-CSD	Total/NA	Solid	3546	
680-90855-18	FM0097B-CS	Total/NA	Solid	3546	
680-90855-19	FM0097C-CS	Total/NA	Solid	3546	
680-90855-20	FM0097D-CS	Total/NA	Solid	3546	
LCS 660-138190/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138190/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-1	CV0185A-CS	Total/NA	Solid	8270C LL	138156
680-90855-2	CV0185A-CSD	Total/NA	Solid	8270C LL	138156
680-90855-3	CV1017A-CS	Total/NA	Solid	8270C LL	138117
680-90855-3 MS	CV1017A-CS	Total/NA	Solid	8270C LL	138117
680-90855-3 MSD	CV1017A-CS	Total/NA	Solid	8270C LL	138117
LCS 660-138117/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138117
MB 660-138117/1-A	Method Blank	Total/NA	Solid	8270C LL	138117

Analysis Batch: 138205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-138156/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138156
MB 660-138156/1-A	Method Blank	Total/NA	Solid	8270C LL	138156

GC/MS Semi VOA (Continued)

Analysis Batch: 138352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-4	CV1025A-CS	Total/NA	Solid	8270C LL	138190
680-90855-5	CV1029A-CS	Total/NA	Solid	8270C LL	138190
680-90855-6	CV1112A-CS	Total/NA	Solid	8270C LL	138190
680-90855-7	CV1167A-CS	Total/NA	Solid	8270C LL	138190
680-90855-8	CV1167B-CS	Total/NA	Solid	8270C LL	138190
680-90855-9	FM0308A-CS	Total/NA	Solid	8270C LL	138190
680-90855-10	FM0308A-CSD	Total/NA	Solid	8270C LL	138190
680-90855-11	FM0308B-CS	Total/NA	Solid	8270C LL	138190
680-90855-12	FM0308C-CS	Total/NA	Solid	8270C LL	138190
680-90855-13	FM0308D-CS	Total/NA	Solid	8270C LL	138190
680-90855-14	FM0308E-CS	Total/NA	Solid	8270C LL	138190
680-90855-15	FM0308F-CS	Total/NA	Solid	8270C LL	138190
680-90855-16	FM0097A-CS	Total/NA	Solid	8270C LL	138190
680-90855-17	FM0097A-CSD	Total/NA	Solid	8270C LL	138190
680-90855-18	FM0097B-CS	Total/NA	Solid	8270C LL	138190
680-90855-19	FM0097C-CS	Total/NA	Solid	8270C LL	138190
680-90855-20	FM0097D-CS	Total/NA	Solid	8270C LL	138190
LCS 660-138190/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138190
MB 660-138190/1-A	Method Blank	Total/NA	Solid	8270C LL	138190

General Chemistry

Analysis Batch: 137974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-3	CV1017A-CS	Total/NA	Solid	Moisture	
680-90855-3 MS	CV1017A-CS	Total/NA	Solid	Moisture	
680-90855-3 MSD	CV1017A-CS	Total/NA	Solid	Moisture	

Analysis Batch: 137982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-1	CV0185A-CS	Total/NA	Solid	Moisture	
680-90855-10	FM0308A-CSD	Total/NA	Solid	Moisture	
LCS 660-137982/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137982/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 137998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-2	CV0185A-CSD	Total/NA	Solid	Moisture	
680-90855-4	CV1025A-CS	Total/NA	Solid	Moisture	
680-90855-5	CV1029A-CS	Total/NA	Solid	Moisture	
680-90855-6	CV1112A-CS	Total/NA	Solid	Moisture	
680-90855-7	CV1167A-CS	Total/NA	Solid	Moisture	
680-90855-8	CV1167B-CS	Total/NA	Solid	Moisture	
680-90855-9	FM0308A-CS	Total/NA	Solid	Moisture	
680-90855-11	FM0308B-CS	Total/NA	Solid	Moisture	
680-90855-12	FM0308C-CS	Total/NA	Solid	Moisture	
680-90855-13	FM0308D-CS	Total/NA	Solid	Moisture	
680-90855-14	FM0308E-CS	Total/NA	Solid	Moisture	
680-90855-15	FM0308F-CS	Total/NA	Solid	Moisture	
680-90855-16	FM0097A-CS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 137998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-17	FM0097A-CSD	Total/NA	Solid	Moisture	
680-90855-18	FM0097B-CS	Total/NA	Solid	Moisture	
680-90855-19	FM0097C-CS	Total/NA	Solid	Moisture	
680-90855-20	FM0097D-CS	Total/NA	Solid	Moisture	
LCS 660-137998/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137998/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-90855-1
SDG: 68090855-1

Client Sample ID: CV0185A-CS

Lab Sample ID: 680-90855-1
Date Collected: 05/30/13 08:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138156	06/06/13 14:10	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	138203	06/07/13 22:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 08:21	AG	TAL TAM

Client Sample ID: CV0185A-CSD

Lab Sample ID: 680-90855-2
Date Collected: 05/30/13 08:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138156	06/06/13 14:10	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	138203	06/07/13 22:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 09:50	AG	TAL TAM

Client Sample ID: CV1017A-CS

Lab Sample ID: 680-90855-3
Date Collected: 05/30/13 09:40
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138117	06/05/13 15:09	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138203	06/07/13 14:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: CV1025A-CS

Lab Sample ID: 680-90855-4
Date Collected: 05/30/13 10:15
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 13:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 09:24	AG	TAL TAM

Client Sample ID: CV1029A-CS

Lab Sample ID: 680-90855-5
Date Collected: 05/30/13 10:30
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 13:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 10:14	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90855-1
SDG: 68090855-1

Client Sample ID: CV1112A-CS

Lab Sample ID: 680-90855-6
Date Collected: 05/30/13 10:36
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 14:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 10:35	AG	TAL TAM

Client Sample ID: CV1167A-CS

Lab Sample ID: 680-90855-7
Date Collected: 05/30/13 10:59
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 14:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 09:40	AG	TAL TAM

Client Sample ID: CV1167B-CS

Lab Sample ID: 680-90855-8
Date Collected: 05/30/13 11:03
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 15:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 09:43	AG	TAL TAM

Client Sample ID: FM0308A-CS

Lab Sample ID: 680-90855-9
Date Collected: 05/30/13 08:56
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 15:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 09:23	AG	TAL TAM

Client Sample ID: FM0308A-CSD

Lab Sample ID: 680-90855-10
Date Collected: 05/30/13 08:56
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 15:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 08:16	AG	TAL TAM

Client Sample ID: FM0308B-CS

Lab Sample ID: 680-90855-11
Date Collected: 05/30/13 09:20
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 16:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:40	AG	TAL TAM

Client Sample ID: FM0308C-CS

Lab Sample ID: 680-90855-12
Date Collected: 05/30/13 09:33
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 16:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 12:10	AG	TAL TAM

Client Sample ID: FM0308D-CS

Lab Sample ID: 680-90855-13
Date Collected: 05/30/13 09:44
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 16:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 10:44	AG	TAL TAM

Client Sample ID: FM0308E-CS

Lab Sample ID: 680-90855-14
Date Collected: 05/30/13 09:53
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 17:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:59	AG	TAL TAM

Client Sample ID: FM0308F-CS

Lab Sample ID: 680-90855-15
Date Collected: 05/30/13 10:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 17:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 10:08	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90855-1
SDG: 68090855-1

Client Sample ID: FM0097A-CS

Lab Sample ID: 680-90855-16
Date Collected: 05/30/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 18:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:00	AG	TAL TAM

Client Sample ID: FM0097A-CSD

Lab Sample ID: 680-90855-17
Date Collected: 05/30/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 18:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:00	AG	TAL TAM

Client Sample ID: FM0097B-CS

Lab Sample ID: 680-90855-18
Date Collected: 05/30/13 13:30
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 18:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 12:43	AG	TAL TAM

Client Sample ID: FM0097C-CS

Lab Sample ID: 680-90855-19
Date Collected: 05/30/13 13:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 19:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:35	AG	TAL TAM

Client Sample ID: FM0097D-CS

Lab Sample ID: 680-90855-20
Date Collected: 05/30/13 14:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 19:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 12:25	AG	TAL TAM

Laboratory References:

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

Serial Number 64264

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
Test Am Tampa
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Renewal	200548-1356	AC.
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE 10 Calendar Days

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 4 PAH	REQUIRED ANALYSIS: Reqw BTEX/Naph	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-30-13	0850	CV0185A-CS	C		X			X				
	0850	CV0185A-CSD	C		X			X				
	0940	CV1017A-CS	C		X			X	X			
	1015	CV1025A-CS	C		X			X				
	1030	CV1029A-CS	C		X			X				
	1036	CV1112A-CS	C		X			X				
	1059	CV1167A-CS	C		X			X				
	1103	CV1167B-CS	C		X			X				
	0856	FM0308A-CS	C		X			X				
	0856	FM0308A-CSD	C		X			X				
	0920	FM0308B-CS	C		X			X				
	0933	FM0308C-CS	C		X			X				

680-90855-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-30-13	1600		6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
							06/04/13	0855

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90855	5.2° C cus 7

2.2°C

TAL8240-680 (1008)

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6/14/2013

Serial Number 64265

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	20053498-13556	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

PAGE 2 OF 3

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: Lead (Pb)	Rcra 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-30-13	0944	FM0308D-CS	C		X			X				
	0953	FM0308E-CS	C		X			X	X			
	1000	FM0308F-CS	C		X			X				
	1310	FM0097A-CS	C		X			X				
	1310	FM0097A-CSD	C		X			X				
	1350	FM0097B-CS	C		X			X				
	1350	FM0097C-CS	C		X			X				
	1400	FM0097D-CS	C		X			X				
	1320	CV1285A-CS	C		X			X				
	1330	CV1285B-CS	C		X			X				
	1335	CV1285C-CS	C		X			X				
	0940	CV1017A-CS (Csieve)	C		X				X			

680-90855-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-30-13	1600		6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
							06/04/13	0855

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90855	2.2°C

TAL-8240-680 (1006)

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6/14/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
SDG Number: 68090855-1

Login Number: 90855
List Number: 1
Creator: Daughtry, Beth

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 leg ble 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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-1
SDG Number: 68090855-1

Login Number: 90855
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/31/13 05:45 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.	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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble 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: 680-90855-1
SDG: 68090855-1

Laboratory: TestAmerica Savannah

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		399.01	07-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
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
Ilinois	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 certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	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: 680-90855-1
SDG: 68090855-1

Laboratory: TestAmerica Tampa (Continued)

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14