REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-90852-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	05/29/2013
Reviewer:	Karen Marie Trujillo, URS Group, Inc.	Date:	06/25/2013
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?		✓			
11. Were target analytes detected in equipment/rinsate blanks?			✓	A rinsate blank was not collected for the week of 5/27/13.	

[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
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)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			FM0352A-CSD (680-90852-32) is a field duplicate of FM0352A-CS (680-90622-31).	
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. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMA5973 • Initial Calibration: 05/30/2013 • ICV: 05/30/13 @ 16:53 • 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 • CCV: 06/07/13 @ 12:17 • CCV: 06/09/13 @ 10:03	
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-	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 138015: 680-90852-22 (FM0098C-CS-SP), 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.	
25. Were MS/MSD recoveries within laboratory/project 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		✓		FM0098C-CS-SP (680-90852-22): Benzo[a]pyrene @ 47 and 60 %R (49-130). Qualification of data not required[3].	

[3] 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
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	✓				
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.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-90852-2
SDG: 68090852-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90852-22	FM0098C-CS-SP	Solid	05/29/13 09:23	05/31/13 08:53
680-90852-23	FM0098D-CS-SP	Solid	05/29/13 09:37	05/31/13 08:53
680-90852-24	HP0175A-CS-SP	Solid	05/29/13 10:32	05/31/13 08:53
680-90852-25	HP0175B-CS-SP	Solid	05/29/13 10:48	05/31/13 08:53
680-90852-26	HP0175C-CS-SP	Solid	05/29/13 11:00	05/31/13 08:53
680-90852-27	CV1305A-CS	Solid	05/29/13 13:50	05/31/13 08:53
680-90852-28	CV1305B-CS	Solid	05/29/13 14:00	05/31/13 08:53
680-90852-29	FM0307A-CS	Solid	05/29/13 13:10	05/31/13 08:53
680-90852-30	FM0307B-CS	Solid	05/29/13 13:20	05/31/13 08:53
680-90852-31	FM0352A-CS	Solid	05/29/13 12:35	05/31/13 08:53
680-90852-32	FM0352A-CSD	Solid	05/29/13 12:00	05/31/13 08:53
680-90852-33	HP0072A-CS-SP	Solid	05/29/13 12:53	05/31/13 08:53
680-90852-34	HP0072B-CS-SP	Solid	05/29/13 13:06	05/31/13 08:53
680-90852-35	HP0125A-CS-SP	Solid	05/29/13 13:39	05/31/13 08:53
680-90852-36	HP0125B-CS-SP	Solid	05/29/13 13:54	05/31/13 08:53
680-90852-37	HP0193A-CS-SP	Solid	05/29/13 14:23	05/31/13 08:53
680-90852-38	HP0193B-CS-SP	Solid	05/29/13 14:34	05/31/13 08:53
680-90852-39	HP0299A-CS-SP	Solid	05/29/13 15:27	05/31/13 08:53
680-90852-40	HP0299B-CS-SP	Solid	05/29/13 15:35	05/31/13 08:53

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0352A-CS 680-90852-31		RL	FM0352A-CSD 680-90852-32		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	130	J	180	120	J	180	µg/kg	900	NA	10	360	None, absolute difference ≤ 2x Avg RL
Anthracene	150		39	140		38	µg/kg	192.5	NA	10	77	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	380		37	370		36	µg/kg	182.5	3	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	420		48	420		47	µg/kg	237.5	0	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	790		56	800		55	µg/kg	277.5	1	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	210		92	210		90	µg/kg	455	NA	0	182	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	300		37	260		36	µg/kg	182.5	14	NA	NA	None, RPD ≤ 50%
Chrysene	440		42	450		40	µg/kg	205	2	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	91	J	92	84	J	90	µg/kg	455	NA	7	182	None, absolute difference ≤ 2x Avg RL
Fluoranthene	590		92	640		90	µg/kg	455	8	NA	NA	None, RPD ≤ 50%
Fluorene	24	J	92	19	J	90	µg/kg	455	NA	5	182	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	250		92	260		90	µg/kg	455	NA	10	182	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	140	J	180	84	J	180	µg/kg	900	NA	56	360	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	250		180	160	J	180	µg/kg	900	NA	90	360	None, absolute difference ≤ 2x Avg RL
Naphthalene	210		180	150	J	180	µg/kg	900	NA	60	360	None, absolute difference ≤ 2x Avg RL
Phenanthrene	350		37	320		36	µg/kg	182.5	9	NA	NA	None, RPD ≤ 50%
Pyrene	480		92	520		90	µg/kg	455	8	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.

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-90852-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90852-2

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 5.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0098C-CS-SP (680-90852-22), FM0098D-CS-SP (680-90852-23), HP0175A-CS-SP (680-90852-24), HP0175B-CS-SP (680-90852-25), HP0175C-CS-SP (680-90852-26), CV1305A-CS (680-90852-27), CV1305B-CS (680-90852-28), FM0307A-CS (680-90852-29), FM0307B-CS (680-90852-30), FM0352A-CS (680-90852-31), FM0352A-CSD (680-90852-32), HP0072A-CS-SP (680-90852-33), HP0072B-CS-SP (680-90852-34), HP0125A-CS-SP (680-90852-35), HP0125B-CS-SP (680-90852-36), HP0193A-CS-SP (680-90852 37), HP0193B CS SP (680-90852 38), HP0299A CS SP (680-90852 39) and HP0299B CS-SP (680-90852 40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/04/2013 and 06/06/2013 and analyzed on 06/07/2013 and 06/09/2013.

Samples HP0175A-CS-SP (680-90852-24)[4X], HP0175B-CS-SP (680-90852-25)[4X], CV1305B-CS (680-90852-28)[4X], FM0307A-CS (680-90852-29)[4X], FM0307B-CS (680-90852-30)[4X], FM0352A-CS (680-90852-31)[4X], FM0352A-CSD (680-90852-32)[4X], HP0125A-CS-SP (680-90852-35)[20X] and HP0125A-CS-SP (680-90852-35)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample FM0098C-CS-SPMS (680-90852-22) in batch 660-138216.

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 Sample ID: FM0098C-CS-SP

Lab Sample ID: 680-90852-22

Date Collected: 05/29/13 09:23
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.9

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	☼	06/04/13 06:47	06/09/13 15:20	1
Acenaphthylene	**47**	**J**	49	6.1	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Anthracene	**94**		10	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[a]anthracene	**150**		9.8	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[a]pyrene	**180**	**F**	13	6.3	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[b]fluoranthene	**430**		15	7.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[g,h,i]perylene	**110**		24	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[k]fluoranthene	**120**		9.8	4.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Chrysene	**230**		11	5.5	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Dibenz(a,h)anthracene	**46**		24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Fluoranthene	**170**		24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Fluorene	**13**	**J**	24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Indeno[1,2,3-cd]pyrene	**110**		24	8.7	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
1-Methylnaphthalene	**47**	**J**	49	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
2-Methylnaphthalene	**79**		49	8.7	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Naphthalene	**94**		49	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Phenanthrene	**120**		9.8	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Pyrene	**150**		24	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*06/04/13 06:47*	*06/09/13 15:20*	*1*

Client Sample ID: FM0098D-CS-SP

Lab Sample ID: 680-90852-23

Date Collected: 05/29/13 09:37
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.0

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	☼	06/04/13 06:47	06/09/13 16:27	1
Acenaphthylene	**26**	**J**	48	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Anthracene	**38**		10	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[a]anthracene	**110**		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[a]pyrene	**130**		13	6.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[b]fluoranthene	**270**		15	7.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[g,h,i]perylene	**79**		24	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[k]fluoranthene	**74**		9.6	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Chrysene	**180**		11	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Dibenz(a,h)anthracene	**34**		24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Fluoranthene	**160**		24	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Fluorene	**12**	**J**	24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Indeno[1,2,3-cd]pyrene	**87**		24	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
1-Methylnaphthalene	**110**		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
2-Methylnaphthalene	**180**		48	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Naphthalene	**170**		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Phenanthrene	**160**		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Pyrene	**130**		24	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*06/04/13 06:47*	*06/09/13 16:27*	*1*

Client Sample ID: HP0175A-CS-SP

Lab Sample ID: 680-90852-24

Date Collected: 05/29/13 10:32
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.3

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	☼	06/04/13 06:47	06/09/13 16:50	4
Acenaphthylene	**51**	**J**	180	23	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Anthracene	**110**		39	19	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[a]anthracene	**320**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[a]pyrene	**310**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[b]fluoranthene	**540**		56	28	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[g,h,i]perylene	**180**		92	20	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[k]fluoranthene	**190**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Chrysene	**350**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Dibenz(a,h)anthracene	**79**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Fluoranthene	**530**		92	18	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Fluorene	**21**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Indeno[1,2,3-cd]pyrene	**210**		92	33	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
1-Methylnaphthalene	**87**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
2-Methylnaphthalene	**130**	**J**	180	33	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Naphthalene	**120**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Phenanthrene	**330**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Pyrene	**410**		92	17	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*06/04/13 06:47*	*06/09/13 16:50*	*4*

Client Sample ID: HP0175B-CS-SP

Lab Sample ID: 680-90852-25

Date Collected: 05/29/13 10:48
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.9

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	☼	06/04/13 06:47	06/09/13 17:13	4
Acenaphthylene	**27**	**J**	190	24	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Anthracene	**70**		40	20	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[a]anthracene	**420**		38	18	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[a]pyrene	**590**		49	25	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[b]fluoranthene	**1200**		58	29	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[g,h,i]perylene	**410**		95	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[k]fluoranthene	**380**		38	17	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Chrysene	**640**		43	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Dibenz(a,h)anthracene	**170**		95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Fluoranthene	**540**		95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Fluorene	**25**	**J**	95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Indeno[1,2,3-cd]pyrene	**410**		95	34	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
1-Methylnaphthalene	**160**	**J**	190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
2-Methylnaphthalene	**220**		190	34	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Naphthalene	**240**		190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Phenanthrene	**440**		38	18	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Pyrene	**450**		95	18	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/04/13 06:47*	*06/09/13 17:13*	*4*

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

Client Sample ID: HP0175C-CS-SP

Lab Sample ID: 680-90852-26

Date Collected: 05/29/13 11:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.4

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	☼	06/04/13 06:47	06/09/13 17:35	1
Acenaphthylene	**27**	**J**	46	5.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Anthracene	**44**		9.7	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[a]anthracene	**150**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[a]pyrene	**180**		12	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[b]fluoranthene	**350**		14	7.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[g,h,i]perylene	**110**		23	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[k]fluoranthene	**95**		9.3	4.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Chrysene	**230**		10	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Dibenz(a,h)anthracene	**43**		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Fluoranthene	**260**		23	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Fluorene	**14**	**J**	23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Indeno[1,2,3-cd]pyrene	**110**		23	8.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
1-Methylnaphthalene	**95**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
2-Methylnaphthalene	**150**		46	8.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Naphthalene	**130**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Phenanthrene	**220**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Pyrene	**200**		23	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*06/04/13 06:47*	*06/09/13 17:35*	*1*

Client Sample ID: CV1305A-CS

Lab Sample ID: 680-90852-27

Date Collected: 05/29/13 13:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**63**	**J**	120	23	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Acenaphthylene	**77**		46	5.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Anthracene	**130**		9.8	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[a]anthracene	**480**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[a]pyrene	**560**		12	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[b]fluoranthene	**1000**		14	7.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[g,h,i]perylene	**270**		23	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[k]fluoranthene	**330**		9.3	4.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Chrysene	**590**		10	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Dibenz(a,h)anthracene	**100**		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Fluoranthene	**820**		23	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Fluorene	**47**		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Indeno[1,2,3-cd]pyrene	**270**		23	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
1-Methylnaphthalene	**100**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
2-Methylnaphthalene	**140**		46	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Naphthalene	**120**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Phenanthrene	**550**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Pyrene	**620**		23	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*06/04/13 06:47*	*06/09/13 17:58*	*1*

Client Sample ID: CV1305B-CS

Lab Sample ID: 680-90852-28

Date Collected: 05/29/13 14:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.0

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	93	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Acenaphthylene	**25**	**J**	190	23	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Anthracene	**57**		39	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[a]anthracene	**470**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[a]pyrene	**740**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[b]fluoranthene	**1400**		57	28	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[g,h,i]perylene	**450**		93	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[k]fluoranthene	**460**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Chrysene	**650**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Dibenz(a,h)anthracene	**180**		93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Fluoranthene	**510**		93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Fluorene	93	U	93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Indeno[1,2,3-cd]pyrene	**480**		93	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
1-Methylnaphthalene	**43**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
2-Methylnaphthalene	**69**	**J**	190	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Naphthalene	**85**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Phenanthrene	**240**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Pyrene	**440**		93	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*06/04/13 06:47*	*06/09/13 18:20*	*4*

Client Sample ID: FM0307A-CS

Lab Sample ID: 680-90852-29

Date Collected: 05/29/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.2

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	93	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Acenaphthylene	**26**	**J**	190	23	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Anthracene	**32**	**J**	39	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[a]anthracene	**120**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[a]pyrene	**140**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[b]fluoranthene	**190**		57	28	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[g,h,i]perylene	**60**	**J**	93	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[k]fluoranthene	**60**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Chrysene	**170**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Dibenz(a,h)anthracene	**41**	**J**	93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Fluoranthene	**170**		93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Fluorene	93	U	93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Indeno[1,2,3-cd]pyrene	**94**		93	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
1-Methylnaphthalene	**110**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
2-Methylnaphthalene	**120**	**J**	190	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Naphthalene	**82**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Phenanthrene	**170**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Pyrene	**150**		93	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*06/04/13 06:47*	*06/09/13 18:43*	*4*

Client Sample ID: FM0307B-CS

Lab Sample ID: 680-90852-30

Date Collected: 05/29/13 13:20
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Acenaphthylene	**25**	**J**	190	24	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Anthracene	**59**		40	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[a]anthracene	**420**		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[a]pyrene	**410**		50	25	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[b]fluoranthene	**720**		58	29	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[g,h,i]perylene	**140**		95	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[k]fluoranthene	**260**		38	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Chrysene	**460**		43	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Dibenz(a,h)anthracene	**70**	**J**	95	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Fluoranthene	**530**		95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Fluorene	**23**	**J**	95	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Indeno[1,2,3-cd]pyrene	**190**		95	34	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
1-Methylnaphthalene	**71**	**J**	190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
2-Methylnaphthalene	**92**	**J**	190	34	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Naphthalene	**71**	**J**	190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Phenanthrene	**280**		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Pyrene	**420**		95	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*06/04/13 06:47*	*06/09/13 19:05*	*4*

Client Sample ID: FM0352A-CS

Lab Sample ID: 680-90852-31

Date Collected: 05/29/13 12:35
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.6

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	☼	06/04/13 06:47	06/09/13 19:28	4
Acenaphthylene	**130**	**J**	180	23	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Anthracene	**150**		39	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[a]anthracene	**380**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[a]pyrene	**420**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[b]fluoranthene	**790**		56	28	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[g,h,i]perylene	**210**		92	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[k]fluoranthene	**300**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Chrysene	**440**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Dibenz(a,h)anthracene	**91**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Fluoranthene	**590**		92	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Fluorene	**24**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Indeno[1,2,3-cd]pyrene	**250**		92	33	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
1-Methylnaphthalene	**140**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
2-Methylnaphthalene	**250**		180	33	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Naphthalene	**210**		180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Phenanthrene	**350**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Pyrene	**480**		92	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*06/04/13 06:47*	*06/09/13 19:28*	*4*

Client Sample ID: FM0352A-CSD

Lab Sample ID: 680-90852-32

Date Collected: 05/29/13 12:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Acenaphthylene	**120**	**J**	180	22	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Anthracene	**140**		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[a]anthracene	**370**		36	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[a]pyrene	**420**		47	23	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[b]fluoranthene	**800**		55	27	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[g,h,i]perylene	**210**		90	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[k]fluoranthene	**260**		36	16	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Chrysene	**450**		40	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Dibenz(a,h)anthracene	**84**	**J**	90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Fluoranthene	**640**		90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Fluorene	**19**	**J**	90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Indeno[1,2,3-cd]pyrene	**260**		90	32	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
1-Methylnaphthalene	**84**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
2-Methylnaphthalene	**160**	**J**	180	32	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Naphthalene	**150**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Phenanthrene	**320**		36	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Pyrene	**520**		90	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*06/04/13 06:47*	*06/09/13 19:50*	*4*

Client Sample ID: HP0072A-CS-SP

Lab Sample ID: 680-90852-33

Date Collected: 05/29/13 12:53
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Acenaphthylene	**12**	**J**	52	6.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Anthracene	**18**		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[a]anthracene	**49**		10	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[a]pyrene	**57**		13	6.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[b]fluoranthene	**91**		16	7.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[g,h,i]perylene	**53**		26	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[k]fluoranthene	**33**		10	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Chrysene	**72**		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Dibenz(a,h)anthracene	**17**	**J**	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Fluoranthene	**75**		26	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Fluorene	26	U	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Indeno[1,2,3-cd]pyrene	**49**		26	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
1-Methylnaphthalene	**28**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
2-Methylnaphthalene	**44**	**J**	52	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Naphthalene	**36**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Phenanthrene	**64**		10	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Pyrene	**70**		26	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:48*	*1*

Client Sample ID: HP0072B-CS-SP

Lab Sample ID: 680-90852-34

Date Collected: 05/29/13 13:06
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Acenaphthylene	**8.1**	**J**	52	6.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Anthracene	**13**		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[a]anthracene	**40**		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[a]pyrene	**53**		13	6.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[b]fluoranthene	**82**		16	7.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[g,h,i]perylene	**40**		26	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[k]fluoranthene	**24**		10	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Chrysene	**61**		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Dibenz(a,h)anthracene	**17**	**J**	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Fluoranthene	**63**		26	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Fluorene	26	U	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Indeno[1,2,3-cd]pyrene	**45**		26	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
1-Methylnaphthalene	**39**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
2-Methylnaphthalene	**65**		52	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Naphthalene	**41**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Phenanthrene	**62**		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Pyrene	**53**		26	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:10*	*1*

Client Sample ID: HP0125A-CS-SP

Lab Sample ID: 680-90852-35

Date Collected: 05/29/13 13:39
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2400**		480	97	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Acenaphthylene	**2400**		190	24	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Anthracene	**6300**		41	20	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[a]anthracene	**11000**		39	19	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[a]pyrene	**9500**		50	25	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[b]fluoranthene	**14000**		59	29	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[g,h,i]perylene	**5800**		97	21	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[k]fluoranthene	**5500**		39	17	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Chrysene	**11000**		44	22	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Dibenz(a,h)anthracene	**1600**		97	20	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Fluorene	**3500**		97	20	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Indeno[1,2,3-cd]pyrene	**5500**		97	34	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
1-Methylnaphthalene	**1700**		190	21	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
2-Methylnaphthalene	**1500**		190	34	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Naphthalene	**1700**		190	21	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:33*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**24000**		480	97	ug/Kg	☼	06/06/13 14:10	06/09/13 11:34	20

Client Sample ID: HP0125A-CS-SP

Lab Sample ID: 680-90852-35
Date Collected: 05/29/13 13:39
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	27000		190	94	ug/Kg	☼	06/06/13 14:10	06/09/13 11:34	20
Pyrene	19000		480	89	ug/Kg	☼	06/06/13 14:10	06/09/13 11:34	20

Client Sample ID: HP0125B-CS-SP

Lab Sample ID: 680-90852-36
Date Collected: 05/29/13 13:54
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.6

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	☼	06/06/13 14:10	06/07/13 20:29	1
Acenaphthylene	8.8	J	49	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Anthracene	23		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[a]anthracene	99		9.7	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[a]pyrene	100		13	6.3	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[b]fluoranthene	210		15	7.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[g,h,i]perylene	93		24	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[k]fluoranthene	50		9.7	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Chrysene	130		11	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Dibenz(a,h)anthracene	28		24	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Fluoranthene	210		24	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Fluorene	11	J	24	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Indeno[1,2,3-cd]pyrene	72		24	8.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
1-Methylnaphthalene	33	J	49	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
2-Methylnaphthalene	33	J	49	8.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Naphthalene	49		49	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Phenanthrene	130		9.7	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Pyrene	160		24	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*06/06/13 14:10*	*06/07/13 20:29*	*1*

Client Sample ID: HP0193A-CS-SP

Lab Sample ID: 680-90852-37
Date Collected: 05/29/13 14:23
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	☼	06/06/13 14:10	06/07/13 20:47	1
Acenaphthylene	6.8	J	46	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Anthracene	11		9.7	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[a]anthracene	59		9.2	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[a]pyrene	53		12	6.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[b]fluoranthene	96		14	7.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[g,h,i]perylene	53		23	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[k]fluoranthene	30		9.2	4.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Chrysene	81		10	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Dibenz(a,h)anthracene	15	J	23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Fluoranthene	87		23	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Fluorene	8.6	J	23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Indeno[1,2,3-cd]pyrene	50		23	8.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1

Client Sample ID: HP0193A-CS-SP

Lab Sample ID: 680-90852-37
Date Collected: 05/29/13 14:23
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	54		46	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
2-Methylnaphthalene	75		46	8.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Naphthalene	50		46	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Phenanthrene	90		9.2	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Pyrene	71		23	4.3	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*06/06/13 14:10*	*06/07/13 20:47*	*1*

Client Sample ID: HP0193B-CS-SP

Lab Sample ID: 680-90852-38
Date Collected: 05/29/13 14:34
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 79.9

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	25	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Acenaphthylene	51		50	6.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Anthracene	35		10	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[a]anthracene	160		10	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[a]pyrene	180		13	6.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[b]fluoranthene	340		15	7.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[g,h,i]perylene	150		25	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[k]fluoranthene	100		10	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Chrysene	200		11	5.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Dibenz(a,h)anthracene	44		25	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Fluoranthene	260		25	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Fluorene	15	J	25	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Indeno[1,2,3-cd]pyrene	140		25	8.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
1-Methylnaphthalene	71		50	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
2-Methylnaphthalene	110		50	8.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Naphthalene	150		50	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Phenanthrene	160		10	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Pyrene	220		25	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:06*	*1*

Client Sample ID: HP0299A-CS-SP

Lab Sample ID: 680-90852-39
Date Collected: 05/29/13 15:27
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	140	28	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Acenaphthylene	19	J	55	6.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Anthracene	140		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[a]anthracene	360		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[a]pyrene	350		14	7.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[b]fluoranthene	620		17	8.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[g,h,i]perylene	260		28	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1

Client Sample ID: HP0299A-CS-SP

Lab Sample ID: 680-90852-39

Date Collected: 05/29/13 15:27
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	180		11	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Chrysene	380		12	6.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Dibenz(a,h)anthracene	59		28	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Fluoranthene	770		28	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Fluorene	87		28	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Indeno[1,2,3-cd]pyrene	200		28	9.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
1-Methylnaphthalene	140		55	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
2-Methylnaphthalene	190		55	9.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Naphthalene	210		55	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Phenanthrene	630		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Pyrene	600		28	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:24*	*1*

Client Sample ID: HP0299B-CS-SP

Lab Sample ID: 680-90852-40

Date Collected: 05/29/13 15:35
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 93.4

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	21	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Acenaphthylene	6.1	J	43	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Anthracene	13		9.0	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[a]anthracene	60		8.6	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[a]pyrene	75		11	5.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[b]fluoranthene	120		13	6.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[g,h,i]perylene	65		21	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[k]fluoranthene	32		8.6	3.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Chrysene	73		9.6	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Dibenz(a,h)anthracene	17	J	21	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Fluoranthene	99		21	4.3	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Fluorene	21	U	21	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Indeno[1,2,3-cd]pyrene	52		21	7.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
1-Methylnaphthalene	40	J	43	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
2-Methylnaphthalene	100		43	7.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Naphthalene	62		43	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Phenanthrene	71		8.6	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Pyrene	83		21	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:42*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-90852-2

SDG Number: 68090852-2

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
6/12/2013 6:33 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
06/12/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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: 680-90852-2

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 5.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0098C-CS-SP (680-90852-22), FM0098D-CS-SP (680-90852-23), HP0175A-CS-SP (680-90852-24), HP0175B-CS-SP (680-90852-25), HP0175C-CS-SP (680-90852-26), CV1305A-CS (680-90852-27), CV1305B-CS (680-90852-28), FM0307A-CS (680-90852-29), FM0307B-CS (680-90852-30), FM0352A-CS (680-90852-31), FM0352A-CSD (680-90852-32), HP0072A-CS-SP (680-90852-33), HP0072B-CS-SP (680-90852-34), HP0125A-CS-SP (680-90852-35), HP0125B-CS-SP (680-90852-36), HP0193A-CS-SP (680-90852-37), HP0193B-CS-SP (680-90852-38), HP0299A-CS-SP (680-90852-39) and HP0299B-CS-SP (680-90852-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/04/2013 and 06/06/2013 and analyzed on 06/07/2013 and 06/09/2013.

Samples HP0175A-CS-SP (680-90852-24)[4X], HP0175B-CS-SP (680-90852-25)[4X], CV1305B-CS (680-90852-28)[4X], FM0307A-CS (680-90852-29)[4X], FM0307B-CS (680-90852-30)[4X], FM0352A-CS (680-90852-31)[4X], FM0352A-CSD (680-90852-32)[4X], HP0125A-CS-SP (680-90852-35)[20X] and HP0125A-CS-SP (680-90852-35)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample FM0098C-CS-SPMS (680-90852-22) in batch 660-138216.

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: 680-90852-2
Sdg Number: 68090852-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90852-22	FM0098C-CS-SP	Solid	05/29/2013 0923	05/31/2013 0853
680-90852-22MS	FM0098C-CS-SP	Solid	05/29/2013 0923	05/31/2013 0853
680-90852-22MSD	FM0098C-CS-SP	Solid	05/29/2013 0923	05/31/2013 0853
680-90852-23	FM0098D-CS-SP	Solid	05/29/2013 0937	05/31/2013 0853
680-90852-24	HP0175A-CS-SP	Solid	05/29/2013 1032	05/31/2013 0853
680-90852-25	HP0175B-CS-SP	Solid	05/29/2013 1048	05/31/2013 0853
680-90852-26	HP0175C-CS-SP	Solid	05/29/2013 1100	05/31/2013 0853
680-90852-27	CV1305A-CS	Solid	05/29/2013 1350	05/31/2013 0853
680-90852-28	CV1305B-CS	Solid	05/29/2013 1400	05/31/2013 0853
680-90852-29	FM0307A-CS	Solid	05/29/2013 1310	05/31/2013 0853
680-90852-30	FM0307B-CS	Solid	05/29/2013 1320	05/31/2013 0853
680-90852-31	FM0352A-CS	Solid	05/29/2013 1235	05/31/2013 0853
680-90852-32	FM0352A-CSD	Solid	05/29/2013 1200	05/31/2013 0853
680-90852-33	HP0072A-CS-SP	Solid	05/29/2013 1253	05/31/2013 0853
680-90852-34	HP0072B-CS-SP	Solid	05/29/2013 1306	05/31/2013 0853
680-90852-35	HP0125A-CS-SP	Solid	05/29/2013 1339	05/31/2013 0853
680-90852-36	HP0125B-CS-SP	Solid	05/29/2013 1354	05/31/2013 0853
680-90852-37	HP0193A-CS-SP	Solid	05/29/2013 1423	05/31/2013 0853
680-90852-38	HP0193B-CS-SP	Solid	05/29/2013 1434	05/31/2013 0853
680-90852-39	HP0299A-CS-SP	Solid	05/29/2013 1527	05/31/2013 0853
680-90852-40	HP0299B-CS-SP	Solid	05/29/2013 1535	05/31/2013 0853

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-2
Sdg Number: 68090852-2

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: 680-90852-2
Sdg Number: 68090852-2

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: 680-90852-2
Sdg Number: 68090852-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	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.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-2
Sdg Number: 68090852-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-138015					
LCS 660-138015/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138015/1-A	Method Blank	T	Solid	3546	
680-90852-22	FM0098C-CS-SP	T	Solid	3546	
680-90852-22MS	Matrix Spike	T	Solid	3546	
680-90852-22MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90852-23	FM0098D-CS-SP	T	Solid	3546	
680-90852-24	HP0175A-CS-SP	T	Solid	3546	
680-90852-25	HP0175B-CS-SP	T	Solid	3546	
680-90852-26	HP0175C-CS-SP	T	Solid	3546	
680-90852-27	CV1305A-CS	T	Solid	3546	
680-90852-28	CV1305B-CS	T	Solid	3546	
680-90852-29	FM0307A-CS	T	Solid	3546	
680-90852-30	FM0307B-CS	T	Solid	3546	
680-90852-31	FM0352A-CS	T	Solid	3546	
680-90852-32	FM0352A-CSD	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	
680-90852-33	HP0072A-CS-SP	T	Solid	3546	
680-90852-34	HP0072B-CS-SP	T	Solid	3546	
680-90852-35	HP0125A-CS-SP	T	Solid	3546	
680-90852-35DL	HP0125A-CS-SP	T	Solid	3546	
680-90852-36	HP0125B-CS-SP	T	Solid	3546	
680-90852-37	HP0193A-CS-SP	T	Solid	3546	
680-90852-38	HP0193B-CS-SP	T	Solid	3546	
680-90852-39	HP0299A-CS-SP	T	Solid	3546	
680-90852-40	HP0299B-CS-SP	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	
Analysis Batch:660-138203					
680-90852-36	HP0125B-CS-SP	T	Solid	8270C LL	660-138156
680-90852-37	HP0193A-CS-SP	T	Solid	8270C LL	660-138156
680-90852-38	HP0193B-CS-SP	T	Solid	8270C LL	660-138156
680-90852-39	HP0299A-CS-SP	T	Solid	8270C LL	660-138156
680-90852-40	HP0299B-CS-SP	T	Solid	8270C LL	660-138156

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-2
Sdg Number: 68090852-2

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
680-90852-33	HP0072A-CS-SP	T	Solid	8270C LL	660-138156
680-90852-34	HP0072B-CS-SP	T	Solid	8270C LL	660-138156
680-90852-35	HP0125A-CS-SP	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:660-138216					
LCS 660-138015/2-A	Lab Control Sample	T	Solid	8270C LL	660-138015
MB 660-138015/1-A	Method Blank	T	Solid	8270C LL	660-138015
680-90852-22	FM0098C-CS-SP	T	Solid	8270C LL	660-138015
680-90852-22MS	Matrix Spike	T	Solid	8270C LL	660-138015
680-90852-22MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138015
680-90852-23	FM0098D-CS-SP	T	Solid	8270C LL	660-138015
680-90852-24	HP0175A-CS-SP	T	Solid	8270C LL	660-138015
680-90852-25	HP0175B-CS-SP	T	Solid	8270C LL	660-138015
680-90852-26	HP0175C-CS-SP	T	Solid	8270C LL	660-138015
680-90852-27	CV1305A-CS	T	Solid	8270C LL	660-138015
680-90852-28	CV1305B-CS	T	Solid	8270C LL	660-138015
680-90852-29	FM0307A-CS	T	Solid	8270C LL	660-138015
680-90852-30	FM0307B-CS	T	Solid	8270C LL	660-138015
680-90852-31	FM0352A-CS	T	Solid	8270C LL	660-138015
680-90852-32	FM0352A-CSD	T	Solid	8270C LL	660-138015
680-90852-35DL	HP0125A-CS-SP	T	Solid	8270C LL	660-138156

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-2
Sdg Number: 68090852-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137974					
680-90852-A-9 MS	Matrix Spike	T	Solid	Moisture	
680-90852-A-9 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90852-22	FM0098C-CS-SP	T	Solid	Moisture	
680-90852-22MS	Matrix Spike	T	Solid	Moisture	
680-90852-22MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90852-23	FM0098D-CS-SP	T	Solid	Moisture	
680-90852-24	HP0175A-CS-SP	T	Solid	Moisture	
680-90852-25	HP0175B-CS-SP	T	Solid	Moisture	
680-90852-26	HP0175C-CS-SP	T	Solid	Moisture	
680-90852-27	CV1305A-CS	T	Solid	Moisture	
680-90852-28	CV1305B-CS	T	Solid	Moisture	
680-90852-29	FM0307A-CS	T	Solid	Moisture	
680-90852-30	FM0307B-CS	T	Solid	Moisture	
680-90852-31	FM0352A-CS	T	Solid	Moisture	
680-90852-33	HP0072A-CS-SP	T	Solid	Moisture	
680-90852-34	HP0072B-CS-SP	T	Solid	Moisture	
680-90852-35	HP0125A-CS-SP	T	Solid	Moisture	
680-90852-36	HP0125B-CS-SP	T	Solid	Moisture	
680-90852-38	HP0193B-CS-SP	T	Solid	Moisture	
680-90852-39	HP0299A-CS-SP	T	Solid	Moisture	
680-90852-40	HP0299B-CS-SP	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	
680-90852-32	FM0352A-CSD	T	Solid	Moisture	
680-90852-37	HP0193A-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMA5973 Analysis Batch Number: 137917

Lab Sample ID: ICIS 660-137917/7 Client Sample ID:

Date Analyzed: 05/30/13 15:07 Lab File ID: 1AE30006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:40

Lab Sample ID: IC 660-137917/8 Client Sample ID:

Date Analyzed: 05/30/13 15:23 Lab File ID: 1AE30007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	2.92	Baseline Event	cantins	06/03/13 10:09
Acenaphthylene	3.44	Baseline Event	cantins	06/03/13 10:09
Dibenzofuran	3.65	Analyte not Identified by the Data System	perrint	05/31/13 13:44
Anthracene	4.52	Baseline Event	cantins	06/03/13 10:09
Benzo[b]fluoranthene	7.29	Baseline Event	cantins	06/03/13 10:09
Benzo[k]fluoranthene	7.31	Baseline Event	cantins	06/03/13 10:09
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:44
Dibenz(a,h)anthracene	8.30	Baseline Event	cantins	06/03/13 10:10
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	06/03/13 10:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMA5973 Analysis Batch Number: 137917

Lab Sample ID: IC 660-137917/9 Client Sample ID:

Date Analyzed: 05/30/13 15:38 Lab File ID: 1AE30008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.51	Baseline Event	cantins	06/03/13 10:10
1-Methylnaphthalene	2.97	Baseline Event	perrint	05/31/13 13:43
1,1'-Biphenyl	3.20	Baseline Event	cantins	06/03/13 10:10
Acenaphthylene	3.44	Baseline Event	cantins	06/03/13 10:10
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:11
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:11
Anthracene	4.52	Baseline Event	cantins	06/03/13 10:11
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:11
Pyrene	5.50	Baseline Event	cantins	06/03/13 10:11
Benzo[k]fluoranthene	7.29	Baseline Event	cantins	06/03/13 10:11
Benzo[a]pyrene	7.50	Baseline Event	cantins	06/03/13 10:12
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:43
Benzo[g,h,i]perylene	8.48	Baseline Event	cantins	06/03/13 10:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMA5973 Analysis Batch Number: 137917

Lab Sample ID: IC 660-137917/10 Client Sample ID:

Date Analyzed: 05/30/13 15:53 Lab File ID: 1AE30009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:12
1,1'-Biphenyl	3.19	Baseline Event	cantins	06/03/13 10:12
Acenaphthylene	3.43	Baseline Event	cantins	06/03/13 10:12
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:12
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:13
Anthracene	4.51	Baseline Event	cantins	06/03/13 10:13
Fluoranthene	5.33	Baseline Event	cantins	06/03/13 10:13
Pyrene	5.50	Baseline Event	cantins	06/03/13 10:13
Chrysene	6.49	Baseline Event	cantins	06/03/13 10:13
Benzo[k]fluoranthene	7.29	Baseline Event	cantins	06/03/13 10:13
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	perrint	05/31/13 13:43
Dibenz(a,h)anthracene	8.31	Baseline Event	cantins	06/03/13 10:14
Benzo[g,h,i]perylene	8.48	Baseline Event	cantins	06/03/13 10:14

Lab Sample ID: IC 660-137917/11 Client Sample ID:

Date Analyzed: 05/30/13 16:08 Lab File ID: 1AE30010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:14
1,1'-Biphenyl	3.19	Baseline Event	cantins	06/03/13 10:15
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:15
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:15
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:15
Chrysene	6.48	Baseline Event	cantins	06/03/13 10:15
Benzo[k]fluoranthene	7.30	Baseline Event	cantins	06/03/13 10:15
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	perrint	05/31/13 13:42
Dibenz(a,h)anthracene	8.31	Baseline Event	cantins	06/03/13 10:16
Benzo[g,h,i]perylene	8.48	Baseline Event	cantins	06/03/13 10:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMA5973 Analysis Batch Number: 137917

Lab Sample ID: IC 660-137917/12 Client Sample ID:

Date Analyzed: 05/30/13 16:23 Lab File ID: 1AE30011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:16
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:16
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:16
Anthracene	4.51	Baseline Event	cantins	06/03/13 10:17
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:17
Chrysene	6.49	Baseline Event	cantins	06/03/13 10:17
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:42
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	06/03/13 10:17

Lab Sample ID: IC 660-137917/13 Client Sample ID:

Date Analyzed: 05/30/13 16:38 Lab File ID: 1AE30012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:17
1,1'-Biphenyl	3.19	Baseline Event	cantins	06/03/13 10:18
Indeno[1,2,3-cd]pyrene	8.30	Split Peak	perrint	05/31/13 13:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMA5973 Analysis Batch Number: 137917

Lab Sample ID: ICV 660-137917/14 Client Sample ID:

Date Analyzed: 05/30/13 16:53 Lab File ID: 1AE30013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:18
Acenaphthylene	3.44	Baseline Event	cantins	06/03/13 10:18
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:19
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:19
Chrysene	6.49	Baseline Event	cantins	06/03/13 10:19
Benzo[k]fluoranthene	7.30	Baseline Event	cantins	06/03/13 10:19
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:52
Dibenz(a,h)anthracene	8.31	Baseline Event	cantins	06/03/13 10:19
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	06/03/13 10:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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: 680-90852-36 Client Sample ID: HP0125B-CS-SP

Date Analyzed: 06/07/13 20:29 Lab File ID: 1CF07032.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 11:00
Dibenz(a,h)anthracene	10.75	Baseline Event	cantins	06/09/13 10:59

Lab Sample ID: 680-90852-37 Client Sample ID: HP0193A-CS-SP

Date Analyzed: 06/07/13 20:47 Lab File ID: 1CF07033.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 11:00
Benzo[k]fluoranthene	8.99	Baseline Event	cantins	06/09/13 11:00
Indeno[1,2,3-cd]pyrene	10.75	Split Peak	cantins	06/09/13 11:01

Lab Sample ID: 680-90852-38 Client Sample ID: HP0193B-CS-SP

Date Analyzed: 06/07/13 21:06 Lab File ID: 1CF07034.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 11:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMC5973 Analysis Batch Number: 138203

Lab Sample ID: 680-90852-39 Client Sample ID: HP0299A-CS-SP

Date Analyzed: 06/07/13 21:24 Lab File ID: 1CF07035.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 11:03
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/09/13 11:03
Indeno[1,2,3-cd]pyrene	10.74	Split Peak	cantins	06/09/13 11:04

Lab Sample ID: 680-90852-40 Client Sample ID: HP0299B-CS-SP

Date Analyzed: 06/07/13 21:42 Lab File ID: 1CF07036.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 11:05
Dibenz(a,h)anthracene	10.76	Baseline Event	cantins	06/09/13 11:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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

Lab Sample ID: 680-90852-33 Client Sample ID: HP0072A-CS-SP

Date Analyzed: 06/07/13 21:48 Lab File ID: 1DF07029.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	06/09/13 10:20

Lab Sample ID: 680-90852-34 Client Sample ID: HP0072B-CS-SP

Date Analyzed: 06/07/13 22:10 Lab File ID: 1DF07030.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	06/09/13 10:46

Lab Sample ID: 680-90852-35 Client Sample ID: HP0125A-CS-SP

Date Analyzed: 06/07/13 22:33 Lab File ID: 1DF07031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/09/13 10:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMD5973 Analysis Batch Number: 138216

Lab Sample ID: LCS 660-138015/2-A Client Sample ID:

Date Analyzed: 06/09/13 11:12 Lab File ID: 1DF09006.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	06/10/13 11:51

Lab Sample ID: 680-90852-22 Client Sample ID: FM0098C-CS-SP

Date Analyzed: 06/09/13 15:20 Lab File ID: 1DF09017.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	06/10/13 12:23

Lab Sample ID: 680-90852-22 MS Client Sample ID: FM0098C-CS-SP MS

Date Analyzed: 06/09/13 15:42 Lab File ID: 1DF09018.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	06/10/13 12:24

Lab Sample ID: 680-90852-22 MSD Client Sample ID: FM0098C-CS-SP MSD

Date Analyzed: 06/09/13 16:05 Lab File ID: 1DF09019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.19	Split Peak	cantins	06/10/13 12:26

Lab Sample ID: 680-90852-23 Client Sample ID: FM0098D-CS-SP

Date Analyzed: 06/09/13 16:27 Lab File ID: 1DF09020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.15	Split Peak	cantins	06/10/13 12:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMD5973 Analysis Batch Number: 138216

Lab Sample ID: 680-90852-24 Client Sample ID: HP0175A-CS-SP

Date Analyzed: 06/09/13 16:50 Lab File ID: 1DF09021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 12:27

Lab Sample ID: 680-90852-25 Client Sample ID: HP0175B-CS-SP

Date Analyzed: 06/09/13 17:13 Lab File ID: 1DF09022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.15	Split Peak	cantins	06/10/13 12:28

Lab Sample ID: 680-90852-26 Client Sample ID: HP0175C-CS-SP

Date Analyzed: 06/09/13 17:35 Lab File ID: 1DF09023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.15	Split Peak	cantins	06/10/13 12:29

Lab Sample ID: 680-90852-27 Client Sample ID: CV1305A-CS

Date Analyzed: 06/09/13 17:58 Lab File ID: 1DF09024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.19	Split Peak	cantins	06/10/13 12:30

Lab Sample ID: 680-90852-28 Client Sample ID: CV1305B-CS

Date Analyzed: 06/09/13 18:20 Lab File ID: 1DF09025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 14:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMD5973 Analysis Batch Number: 138216

Lab Sample ID: 680-90852-29 Client Sample ID: FM0307A-CS

Date Analyzed: 06/09/13 18:43 Lab File ID: 1DF09026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 14:15

Lab Sample ID: 680-90852-30 Client Sample ID: FM0307B-CS

Date Analyzed: 06/09/13 19:05 Lab File ID: 1DF09027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 14:15

Lab Sample ID: 680-90852-31 Client Sample ID: FM0352A-CS

Date Analyzed: 06/09/13 19:28 Lab File ID: 1DF09028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 14:16

Lab Sample ID: 680-90852-32 Client Sample ID: FM0352A-CSD

Date Analyzed: 06/09/13 19:50 Lab File ID: 1DF09029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 14:17
Dibenz(a,h)anthracene	15.17	Baseline Event	cantins	06/10/13 14:16

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.: 680-90852-2

SDG No.: 68090852-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0098C-CS-SP	680-90852-22	58
FM0098D-CS-SP	680-90852-23	63
HP0175A-CS-SP	680-90852-24	74
HP0175B-CS-SP	680-90852-25	72
HP0175C-CS-SP	680-90852-26	48
CV1305A-CS	680-90852-27	56
CV1305B-CS	680-90852-28	62
FM0307A-CS	680-90852-29	70
FM0307B-CS	680-90852-30	61
FM0352A-CS	680-90852-31	74
FM0352A-CSD	680-90852-32	71
HP0072A-CS-SP	680-90852-33	57
HP0072B-CS-SP	680-90852-34	58
HP0125A-CS-SP	680-90852-35	85
HP0125B-CS-SP	680-90852-36	78
HP0193A-CS-SP	680-90852-37	41
HP0193B-CS-SP	680-90852-38	55
HP0299A-CS-SP	680-90852-39	61
HP0299B-CS-SP	680-90852-40	65
	MB 660-138015/1-A	84
	MB 660-138156/1-A	71
	LCS 660-138015/2-A	82
	LCS 660-138156/2-A	75
	680-90855-A-21-B MS	60
FM0098C-CS-SP MS	680-90852-22 MS	52
	680-90855-A-21-C MSD	64
FM0098C-CS-SP MSD	680-90852-22 MSD	61

	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.: 680-90852-2

SDG No.: 68090852-2

Matrix: Solid Level: Low Lab File ID: 1DF09006.D

Lab ID: LCS 660-138015/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	548	82	39-130	
Acenaphthylene	665	587	88	38-130	
Anthracene	665	583	88	37-130	
Benzo[a]anthracene	665	504	76	40-130	
Benzo[a]pyrene	665	511	77	49-130	
Benzo[b]fluoranthene	665	567	85	37-130	
Benzo[g,h,i]perylene	665	577	87	32-130	
Benzo[k]fluoranthene	665	556	84	32-130	
Chrysene	665	511	77	41-130	
Dibenz(a,h)anthracene	665	557	84	27-130	
Fluoranthene	665	578	87	40-130	
Fluorene	665	593	89	40-130	
Indeno[1,2,3-cd]pyrene	665	532	80	30-130	
1-Methylnaphthalene	665	537	81	31-130	
2-Methylnaphthalene	665	586	88	33-130	
Naphthalene	665	552	83	36-130	
Phenanthrene	665	560	84	42-130	
Pyrene	665	520	78	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.: 680-90852-2

SDG No.: 68090852-2

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 MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

Matrix: Solid Level: Low Lab File ID: 1DF09018.D

Lab ID: 680-90852-22 MS Client ID: FM0098C-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	813	120 U	461	57	39-130	
Acenaphthylene	813	47 J	537	60	38-130	
Anthracene	813	94	560	57	37-130	
Benzo[a]anthracene	813	150	568	52	40-130	
Benzo[a]pyrene	813	180	557	47	49-130	F
Benzo[b]fluoranthene	813	430	857	53	37-130	
Benzo[g,h,i]perylene	813	110	394	35	32-130	
Benzo[k]fluoranthene	813	120	594	59	32-130	
Chrysene	813	230	605	47	41-130	
Dibenz(a,h)anthracene	813	46	396	43	27-130	
Fluoranthene	813	170	607	54	40-130	
Fluorene	813	13 J	503	60	40-130	
Indeno[1,2,3-cd]pyrene	813	110	404	36	30-130	
1-Methylnaphthalene	813	47 J	486	54	31-130	
2-Methylnaphthalene	813	79	549	58	33-130	
Naphthalene	813	94	542	55	36-130	
Phenanthrene	813	120	575	56	42-130	
Pyrene	813	150	536	47	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.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

Matrix: Solid Level: Low Lab File ID: 1DF09019.D

Lab ID: 680-90852-22 MSD Client ID: FM0098C-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	813	542	67	16	40	39-130	
Acenaphthylene	813	629	72	16	40	38-130	
Anthracene	813	645	68	14	40	37-130	
Benzo[a]anthracene	813	660	63	15	40	40-130	
Benzo[a]pyrene	813	665	60	18	40	49-130	
Benzo[b]fluoranthene	813	1040	76	20	40	37-130	
Benzo[g,h,i]perylene	813	475	45	19	40	32-130	
Benzo[k]fluoranthene	813	705	72	17	40	32-130	
Chrysene	813	708	59	16	40	41-130	
Dibenz(a,h)anthracene	813	468	52	17	40	27-130	
Fluoranthene	813	699	65	14	40	40-130	
Fluorene	813	590	71	16	40	40-130	
Indeno[1,2,3-cd]pyrene	813	488	46	19	40	30-130	
1-Methylnaphthalene	813	594	67	20	40	31-130	
2-Methylnaphthalene	813	678	74	21	40	33-130	
Naphthalene	813	656	69	19	40	36-130	
Phenanthrene	813	649	65	12	40	42-130	
Pyrene	813	636	59	17	40	44-130	

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.: 680-90852-2

SDG No.: 68090852-2

Lab File ID: 1DF09005.D Lab Sample ID: MB 660-138015/1-A

Matrix: Solid Date Extracted: 06/04/2013 06:47

Instrument ID: BSMD5973 Date Analyzed: 06/09/2013 10:49

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138015/2-A	1DF09006.D	06/09/2013 11:12
FM0098C-CS-SP	680-90852-22	1DF09017.D	06/09/2013 15:20
FM0098C-CS-SP MS	680-90852-22 MS	1DF09018.D	06/09/2013 15:42
FM0098C-CS-SP MSD	680-90852-22 MSD	1DF09019.D	06/09/2013 16:05
FM0098D-CS-SP	680-90852-23	1DF09020.D	06/09/2013 16:27
HP0175A-CS-SP	680-90852-24	1DF09021.D	06/09/2013 16:50
HP0175B-CS-SP	680-90852-25	1DF09022.D	06/09/2013 17:13
HP0175C-CS-SP	680-90852-26	1DF09023.D	06/09/2013 17:35
CV1305A-CS	680-90852-27	1DF09024.D	06/09/2013 17:58
CV1305B-CS	680-90852-28	1DF09025.D	06/09/2013 18:20
FM0307A-CS	680-90852-29	1DF09026.D	06/09/2013 18:43
FM0307B-CS	680-90852-30	1DF09027.D	06/09/2013 19:05
FM0352A-CS	680-90852-31	1DF09028.D	06/09/2013 19:28
FM0352A-CSD	680-90852-32	1DF09029.D	06/09/2013 19:50

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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
HP0125B-CS-SP	680-90852-36	1CF07032.D	06/07/2013 20:29
HP0193A-CS-SP	680-90852-37	1CF07033.D	06/07/2013 20:47
	680-90855-A-21-B MS	1DF07027.D	06/07/2013 21:02
HP0193B-CS-SP	680-90852-38	1CF07034.D	06/07/2013 21:06
HP0299A-CS-SP	680-90852-39	1CF07035.D	06/07/2013 21:24
	680-90855-A-21-C MSD	1DF07028.D	06/07/2013 21:25
HP0299B-CS-SP	680-90852-40	1CF07036.D	06/07/2013 21:42
HP0072A-CS-SP	680-90852-33	1DF07029.D	06/07/2013 21:48
HP0072B-CS-SP	680-90852-34	1DF07030.D	06/07/2013 22:10
HP0125A-CS-SP	680-90852-35	1DF07031.D	06/07/2013 22:33
HP0125A-CS-SP DL	680-90852-35 DL	1DF09007.D	06/09/2013 11:34

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Lab File ID: 1AE30005.D DFTPP Injection Date: 05/30/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:51

Analysis Batch No.: 137917

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	51.3	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	43.3	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	49.5	
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	7.3	
275	10.0 - 60.0 % of mass 198	24.8	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	11.5	
442	Greater than 50.0 % of mass 198	76.7	
443	15.0 - 24.0 % of mass 442	13.9	(18.2)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
	ICIS 660-137917/7	1AE30006.D	05/30/2013	15:07
	IC 660-137917/8	1AE30007.D	05/30/2013	15:23
	IC 660-137917/9	1AE30008.D	05/30/2013	15:38
	IC 660-137917/10	1AE30009.D	05/30/2013	15:53
	IC 660-137917/11	1AE30010.D	05/30/2013	16:08
	IC 660-137917/12	1AE30011.D	05/30/2013	16:23
	IC 660-137917/13	1AE30012.D	05/30/2013	16:38
	ICV 660-137917/14	1AE30013.D	05/30/2013	16:53

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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
HP0125B-CS-SP	680-90852-36	1CF07032.D	06/07/2013	20:29
HP0193A-CS-SP	680-90852-37	1CF07033.D	06/07/2013	20:47
HP0193B-CS-SP	680-90852-38	1CF07034.D	06/07/2013	21:06
HP0299A-CS-SP	680-90852-39	1CF07035.D	06/07/2013	21:24
HP0299B-CS-SP	680-90852-40	1CF07036.D	06/07/2013	21:42

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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
HP0072A-CS-SP	680-90852-33	1DF07029.D	06/07/2013	21:48
HP0072B-CS-SP	680-90852-34	1DF07030.D	06/07/2013	22:10
HP0125A-CS-SP	680-90852-35	1DF07031.D	06/07/2013	22:33

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Lab File ID: 1DF09002.D DFTPP Injection Date: 06/09/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 09:45

Analysis Batch No.: 138216

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	40.3	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	42.5	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	48.9	
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	6.9	
275	10.0 - 60.0 % of mass 198	25.7	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	8.1	
442	Greater than 50.0 % of mass 198	54.5	
443	15.0 - 24.0 % of mass 442	11.5	(21.1)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 660-138216/3	1DF09003.D	06/09/2013	10:03
	MB 660-138015/1-A	1DF09005.D	06/09/2013	10:49
	LCS 660-138015/2-A	1DF09006.D	06/09/2013	11:12
HP0125A-CS-SP DL	680-90852-35 DL	1DF09007.D	06/09/2013	11:34
FM0098C-CS-SP	680-90852-22	1DF09017.D	06/09/2013	15:20
FM0098C-CS-SP MS	680-90852-22 MS	1DF09018.D	06/09/2013	15:42
FM0098C-CS-SP MSD	680-90852-22 MSD	1DF09019.D	06/09/2013	16:05
FM0098D-CS-SP	680-90852-23	1DF09020.D	06/09/2013	16:27
HP0175A-CS-SP	680-90852-24	1DF09021.D	06/09/2013	16:50
HP0175B-CS-SP	680-90852-25	1DF09022.D	06/09/2013	17:13
HP0175C-CS-SP	680-90852-26	1DF09023.D	06/09/2013	17:35
CV1305A-CS	680-90852-27	1DF09024.D	06/09/2013	17:58
CV1305B-CS	680-90852-28	1DF09025.D	06/09/2013	18:20
FM0307A-CS	680-90852-29	1DF09026.D	06/09/2013	18:43
FM0307B-CS	680-90852-30	1DF09027.D	06/09/2013	19:05
FM0352A-CS	680-90852-31	1DF09028.D	06/09/2013	19:28
FM0352A-CSD	680-90852-32	1DF09029.D	06/09/2013	19:50

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Sample No.: ICIS 660-137917/7 Date Analyzed: 05/30/2013 15:07

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AE30006.D Heated Purge: (Y/N) N

Calibration ID: 2994

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		684481	2.49	371379	3.52	579381	4.46
UPPER LIMIT		1368962	2.99	742758	4.02	1158762	4.96
LOWER LIMIT		342241	1.99	185690	3.02	289691	3.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137917/14		682213	2.49	336207	3.52	558509	4.46

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.: 680-90852-2

SDG No.: 68090852-2

Sample No.: ICIS 660-137917/7 Date Analyzed: 05/30/2013 15:07

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AE30006.D Heated Purge: (Y/N) N

Calibration ID: 2994

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		517389	6.47	487492	7.55		
UPPER LIMIT		1034778	6.97	974984	8.05		
LOWER LIMIT		258695	5.97	243746	7.05		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137917/14		482825	6.47	386611	7.55		

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.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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						
680-90852-36	HP0125B-CS-SP	2043812	4.03	1507036	5.12	2854927	6.09
680-90852-37	HP0193A-CS-SP	2132702	4.03	1580134	5.12	2943832	6.09
680-90852-38	HP0193B-CS-SP	2104405	4.03	1522601	5.12	2870252	6.09
680-90852-39	HP0299A-CS-SP	2027817	4.03	1495964	5.12	2872812	6.09
680-90852-40	HP0299B-CS-SP	2203753	4.03	1666690	5.12	3059334	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.: 680-90852-2

SDG No.: 68090852-2

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						
680-90852-36	HP0125B-CS-SP	3314396	8.05	3012482	9.37		
680-90852-37	HP0193A-CS-SP	3473759	8.05	3140005	9.37		
680-90852-38	HP0193B-CS-SP	3404744	8.05	3083655	9.37		
680-90852-39	HP0299A-CS-SP	3351644	8.05	3077780	9.37		
680-90852-40	HP0299B-CS-SP	3521721	8.05	3333148	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.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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
680-90852-33	HP0072A-CS-SP	3018403	6.26	1746608	7.93	2771687	9.19
680-90852-34	HP0072B-CS-SP	3121068	6.27	1788941	7.94	2851986	9.19
680-90852-35	HP0125A-CS-SP	3028673	6.27	1748912	7.93	2847162	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.: 680-90852-2

SDG No.: 68090852-2

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		
680-90852-33	HP0072A-CS-SP	2779236	11.56	2877328	13.47		
680-90852-34	HP0072B-CS-SP	2789574	11.55	2898230	13.46		
680-90852-35	HP0125A-CS-SP	2865022	11.57	3048490	13.48		

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.: 680-90852-2

SDG No.: 68090852-2

Sample No.: CCVIS 660-138216/3 Date Analyzed: 06/09/2013 10:03

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

Lab File ID (Standard): 1DF09003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3534561	6.26	1941167	7.93	3288683	9.19
UPPER LIMIT		7069122	6.76	3882334	8.43	6577366	9.69
LOWER LIMIT		1767281	5.76	970584	7.43	1644342	8.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138015/1-A		3414403	6.26	1996386	7.93	3209055	9.19
LCS 660-138015/2-A		3444683	6.26	2068111	7.93	3434704	9.19
680-90852-35 DL	HP0125A-CS-SP DL	3699042	6.26	2100997	7.93	3455034	9.19
680-90852-22	FM0098C-CS-SP	3304296	6.27	1885767	7.94	2948112	9.20
680-90852-22 MS	FM0098C-CS-SP MS	3233915	6.27	1821156	7.94	2827499	9.20
680-90852-22 MSD	FM0098C-CS-SP MSD	3264004	6.27	1894821	7.94	2969765	9.20
680-90852-23	FM0098D-CS-SP	3040886	6.27	1750336	7.94	2756125	9.20
680-90852-24	HP0175A-CS-SP	3089942	6.27	1820319	7.94	2890959	9.20
680-90852-25	HP0175B-CS-SP	3116935	6.27	1788293	7.94	2839920	9.20
680-90852-26	HP0175C-CS-SP	3286582	6.27	1899230	7.94	3027091	9.20
680-90852-27	CV1305A-CS	3088903	6.27	1738495	7.94	2758431	9.21
680-90852-28	CV1305B-CS	3038975	6.27	1748076	7.94	2696802	9.20
680-90852-29	FM0307A-CS	3074985	6.28	1744075	7.94	2794266	9.20
680-90852-30	FM0307B-CS	3198098	6.27	1844358	7.94	2902338	9.20
680-90852-31	FM0352A-CS	3099504	6.27	1769405	7.94	2798599	9.20
680-90852-32	FM0352A-CSD	3218047	6.27	1879703	7.94	2976861	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.: 680-90852-2

SDG No.: 68090852-2

Sample No.: CCVIS 660-138216/3 Date Analyzed: 06/09/2013 10:03

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

Lab File ID (Standard): 1DF09003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3128341	11.56	3075668	13.46		
UPPER LIMIT		6256682	12.06	6151336	13.96		
LOWER LIMIT		1564171	11.06	1537834	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138015/1-A		3312651	11.55	3118448	13.45		
LCS 660-138015/2-A		3615125	11.55	3424339	13.46		
680-90852-35 DL	HP0125A-CS-SP DL	3536252	11.55	3313738	13.46		
680-90852-22	FM0098C-CS-SP	3047979	11.57	2981815	13.50		
680-90852-22 MS	FM0098C-CS-SP MS	3016240	11.58	2851049	13.50		
680-90852-22 MSD	FM0098C-CS-SP MSD	3092749	11.58	2844680	13.51		
680-90852-23	FM0098D-CS-SP	2724024	11.58	2512632	13.50		
680-90852-24	HP0175A-CS-SP	2768455	11.57	2513190	13.49		
680-90852-25	HP0175B-CS-SP	2707935	11.57	2416169	13.50		
680-90852-26	HP0175C-CS-SP	3023281	11.58	2585459	13.50		
680-90852-27	CV1305A-CS	2958318	11.58	2426893	13.51		
680-90852-28	CV1305B-CS	2619676	11.58	2153564	13.49		
680-90852-29	FM0307A-CS	2675560	11.58	2133832	13.50		
680-90852-30	FM0307B-CS	2893786	11.58	2235860	13.49		
680-90852-31	FM0352A-CS	2762240	11.57	2128159	13.49		
680-90852-32	FM0352A-CSD	2922392	11.58	2246348	13.49		

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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0098C-CS-SP | Lab Sample ID: 680-90852-22

Matrix: Solid | Lab File ID: 1DF09017.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 09:23

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.02(g) | Date Analyzed: 06/09/2013 15:20

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	47	J	49	6.1
120-12-7	Anthracene	94		10	5.1
56-55-3	Benzo[a]anthracene	150		9.8	4.8
50-32-8	Benzo[a]pyrene	180	F	13	6.3
205-99-2	Benzo[b]fluoranthene	430		15	7.4
191-24-2	Benzo[g,h,i]perylene	110		24	5.4
207-08-9	Benzo[k]fluoranthene	120		9.8	4.4
218-01-9	Chrysene	230		11	5.5
53-70-3	Dibenz(a,h)anthracene	46		24	5.0
206-44-0	Fluoranthene	170		24	4.9
86-73-7	Fluorene	13	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	110		24	8.7
90-12-0	1-Methylnaphthalene	47	J	49	5.4
91-57-6	2-Methylnaphthalene	79		49	8.7
91-20-3	Naphthalene	94		49	5.4
85-01-8	Phenanthrene	120		9.8	4.8
129-00-0	Pyrene	150		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09017.D
Lab Smp Id: 680-90852-A-22-A Client Smp ID: FM0098C-CS-SP
Inj Date : 09-JUN-2013 15:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-22-a
Misc Info : 680-90852-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16
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	15.020	Weight Extracted
M	18.103	% 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	6.263	(1.000)	3304296	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.932	(1.000)	1885767	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.189	(1.000)	2948112	40.0000	
$ 15 o-Terphenyl	230	9.503	9.500	(1.033)	248802	5.76055	470
* 19 Chrysene-d12	240	11.571	11.557	(1.000)	3047979	40.0000	
* 24 Perylene-d12	264	13.504	13.460	(1.000)	2981815	40.0000	(H)
2 Naphthalene	128	6.289	6.281	(1.004)	94520	1.15996	94
3 2-Methylnaphthalene	142	6.989	6.980	(1.115)	50632	0.97588	79
4 1-Methylnaphthalene	142	7.077	7.074	(1.129)	30844	0.57746	47
6 Acenaphthylene	152	7.811	7.802	(0.984)	45549	0.58257	47
10 Fluorene	166	8.405	8.402	(1.058)	8794	0.15670	13
12 Phenanthrene	178	9.215	9.207	(1.002)	114662	1.43607	120
13 Anthracene	178	9.256	9.248	(1.006)	89175	1.15107	94
16 Fluoranthene	202	10.197	10.194	(1.109)	171143	2.09519	170

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.390	10.382	(0.898)	167084	1.87235	150
18 Benzo(a)anthracene	228	11.560	11.539	(0.999)	165850	1.83346	150
20 Chrysene	228	11.595	11.580	(1.002)	226694	2.78305	230
21 Benzo(b)fluoranthene	252	12.929	12.896	(0.957)	391749	5.24422	430(H)
22 Benzo(k)fluoranthene	252	12.958	12.938	(0.960)	112969	1.44412	120(H)
23 Benzo(a)pyrene	252	13.399	13.361	(0.992)	154441	2.18682	180(H)
25 Indeno(1,2,3-cd)pyrene	276	15.161	15.111	(1.123)	96112	1.38810	110(MH)
26 Dibenzo(a,h)anthracene	278	15.191	15.147	(1.125)	34894	0.56161	46(H)
27 Benzo(g,h,i)perylene	276	15.643	15.587	(1.158)	90065	1.33023	110(H)

QC Flag Legend

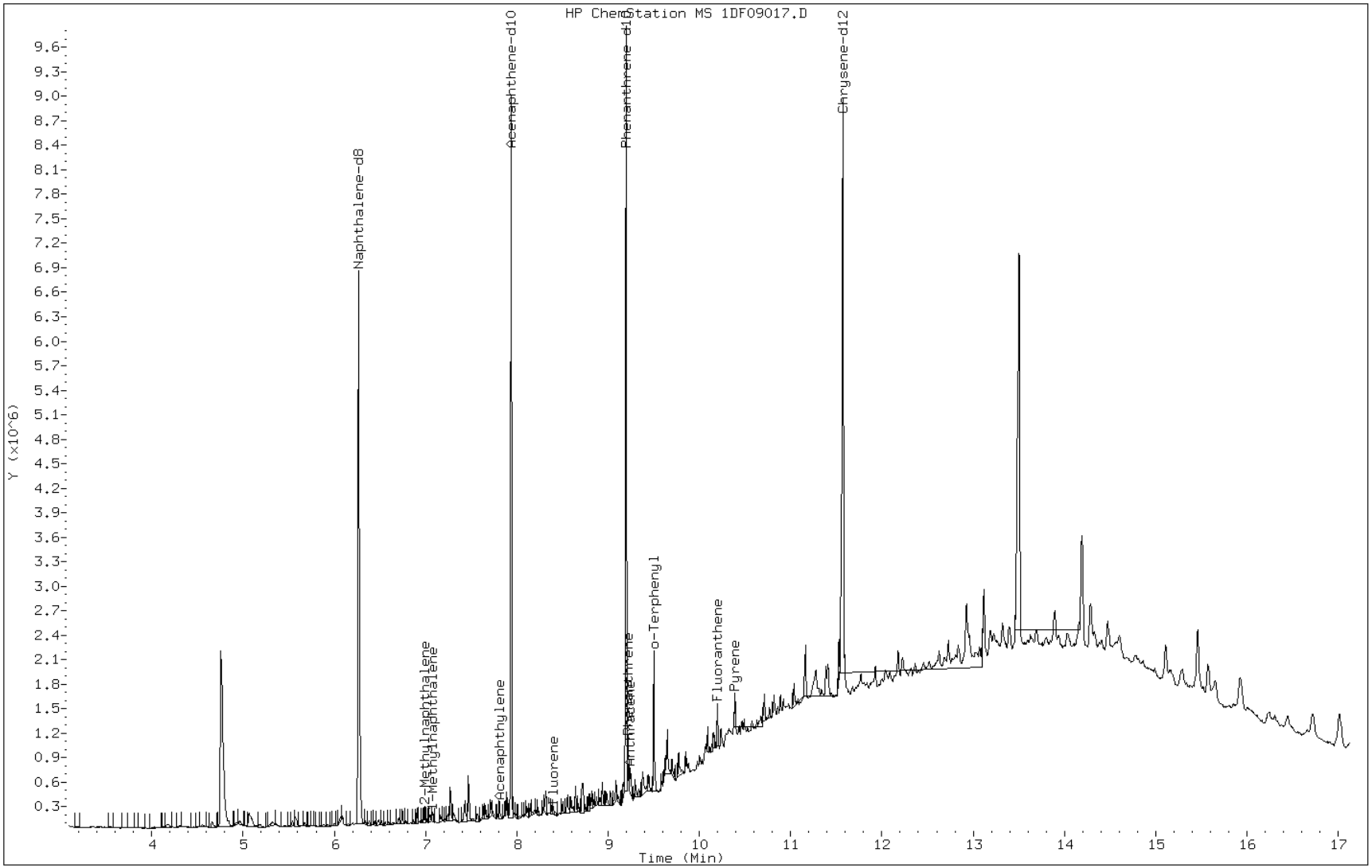
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC



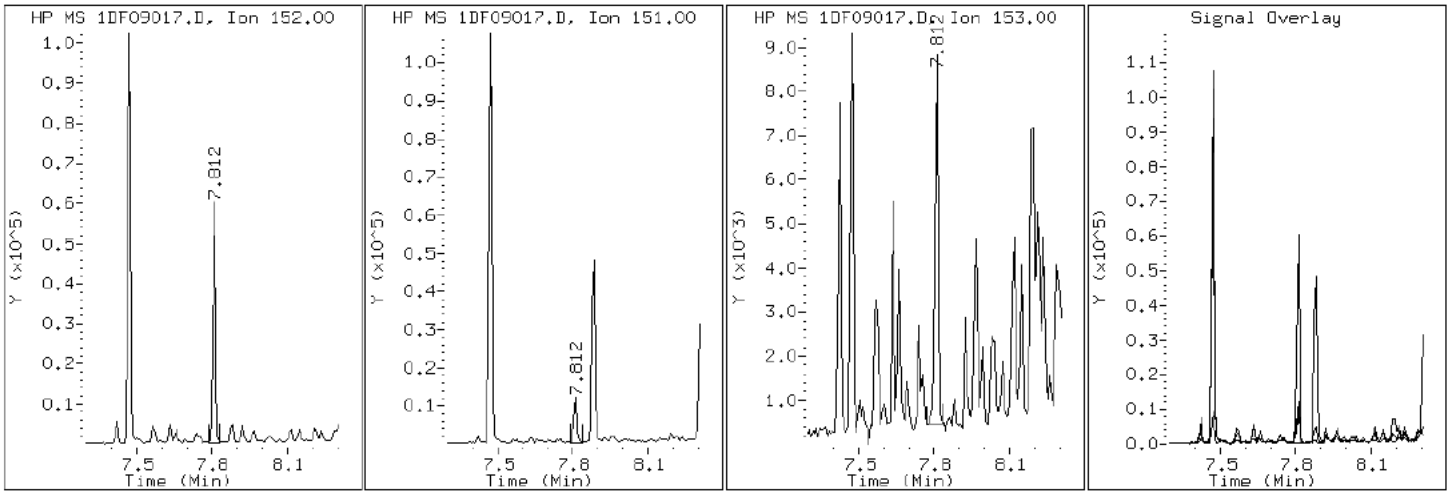
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

6 Acenaphthylene



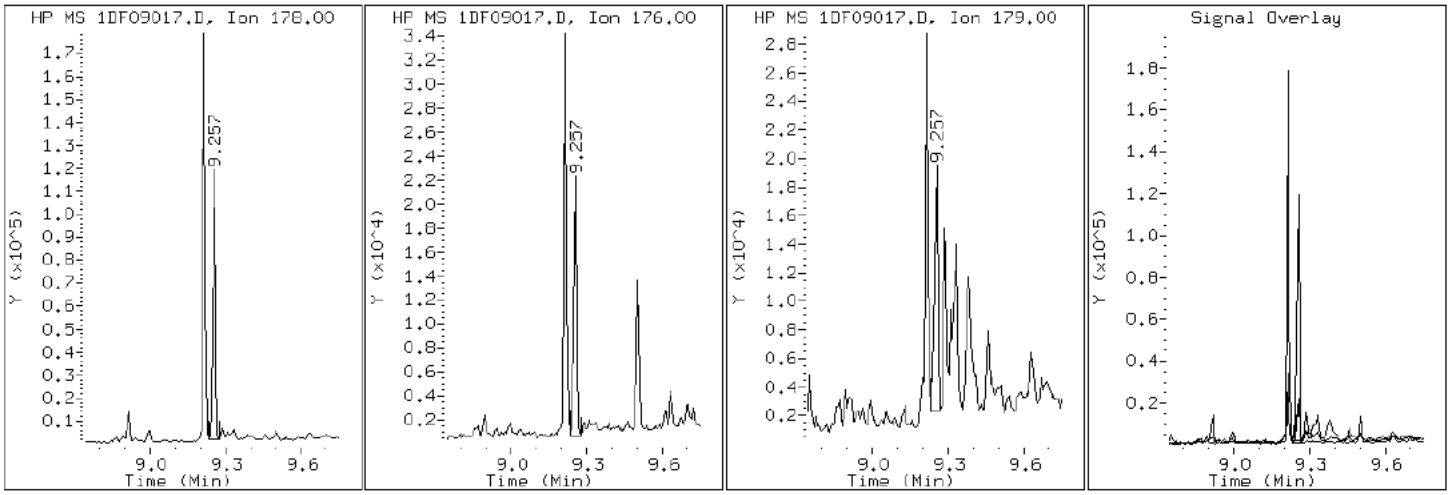
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

13 Anthracene



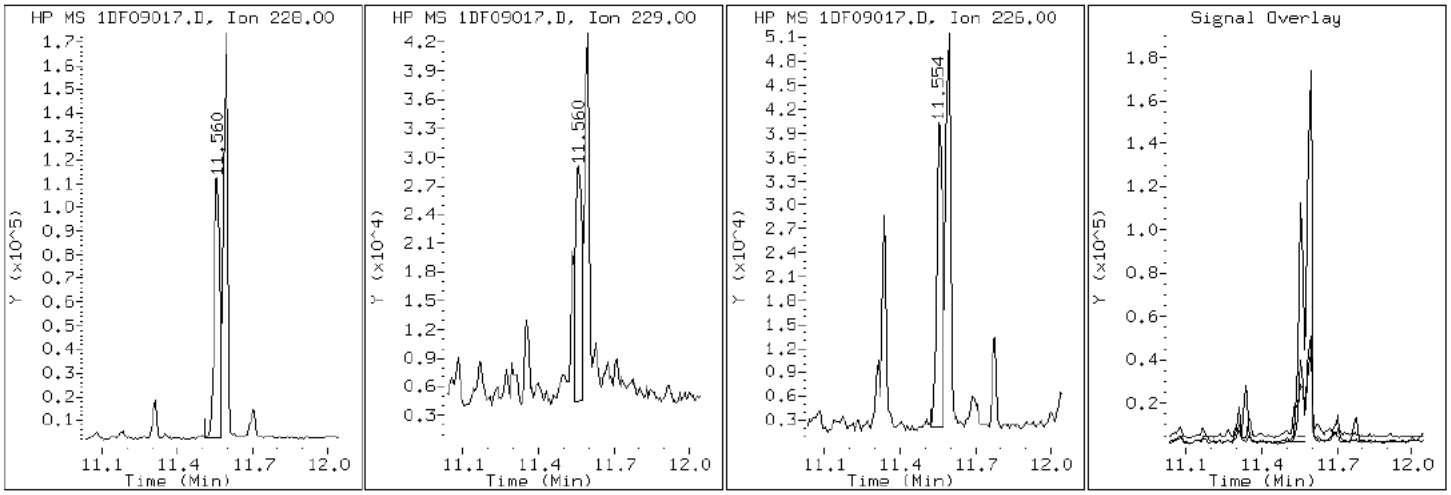
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

18 Benzo(a)anthracene



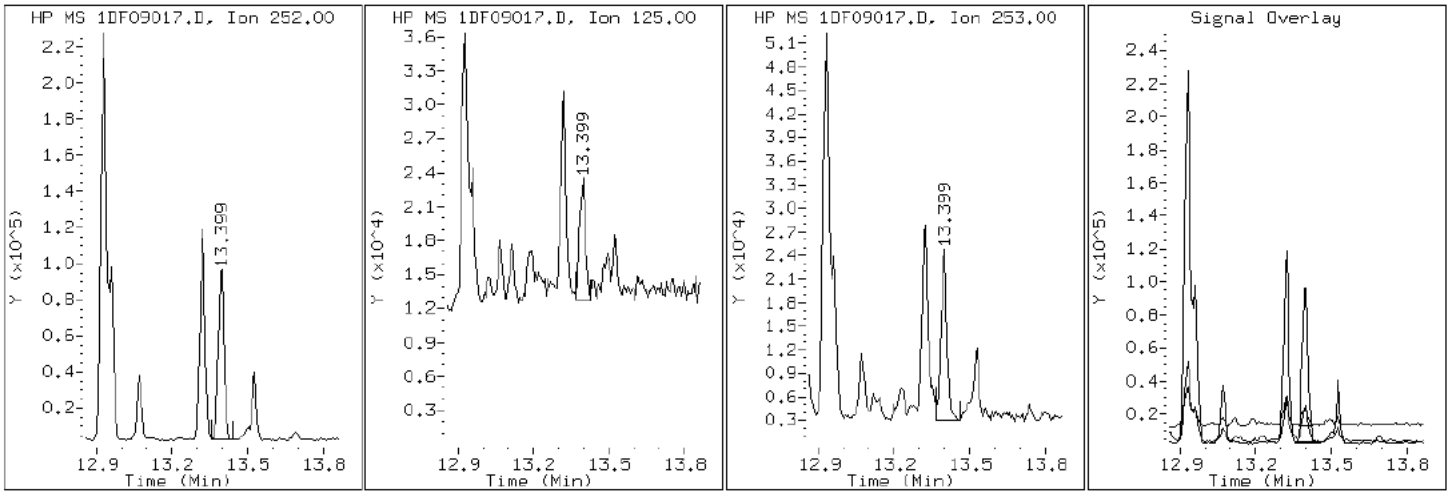
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

23 Benzo(a)pyrene



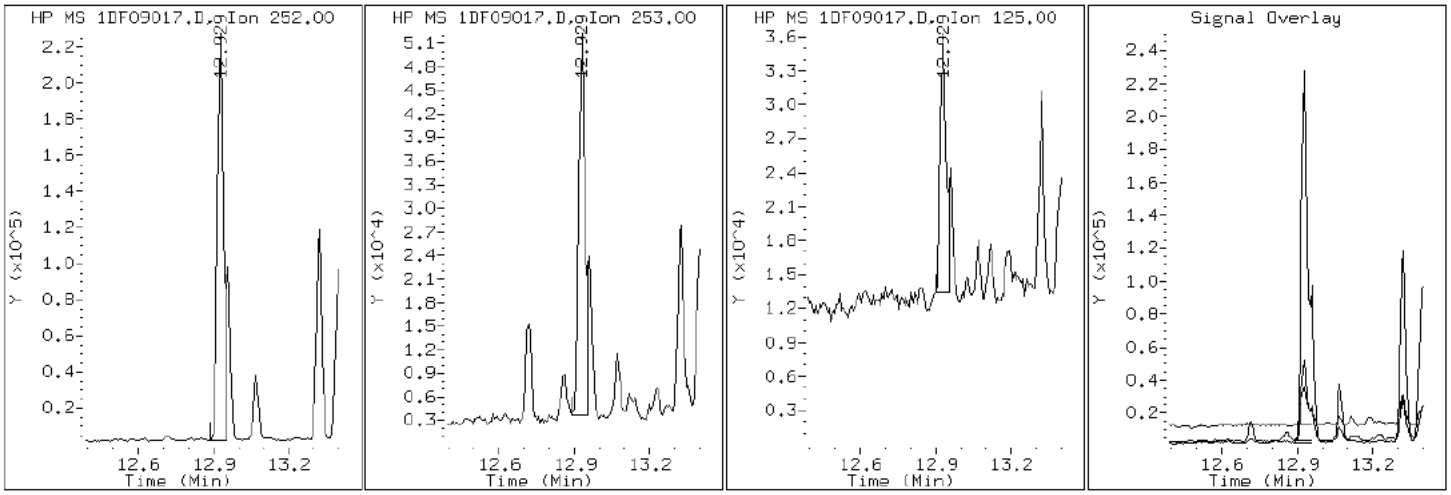
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

21 Benzo(b)fluoranthene



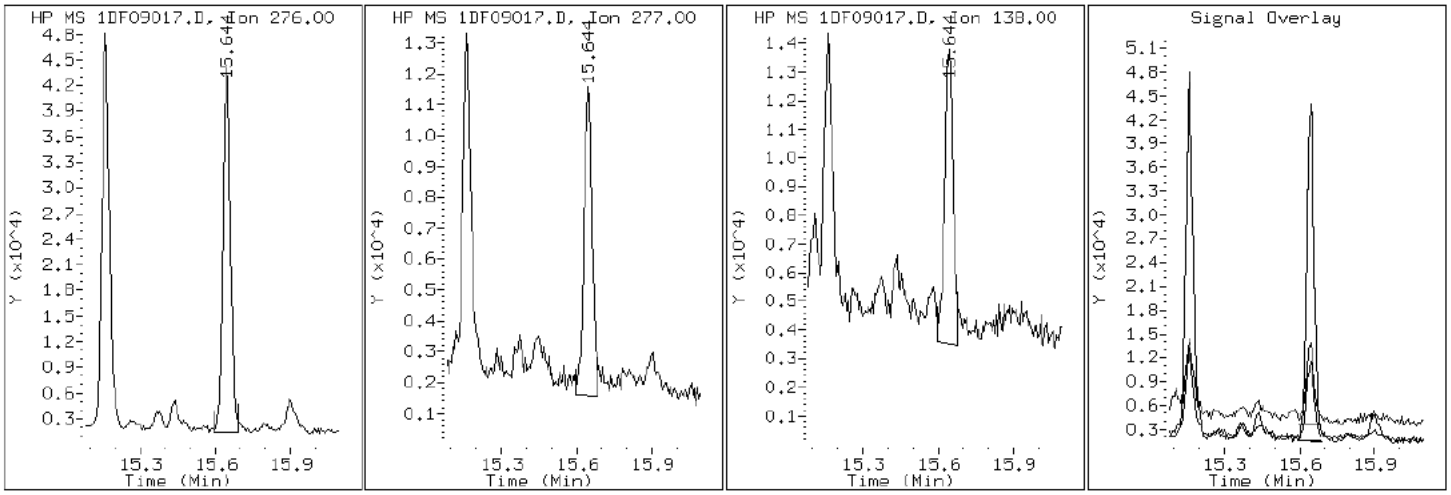
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

27 Benzo(g,h,i)perylene



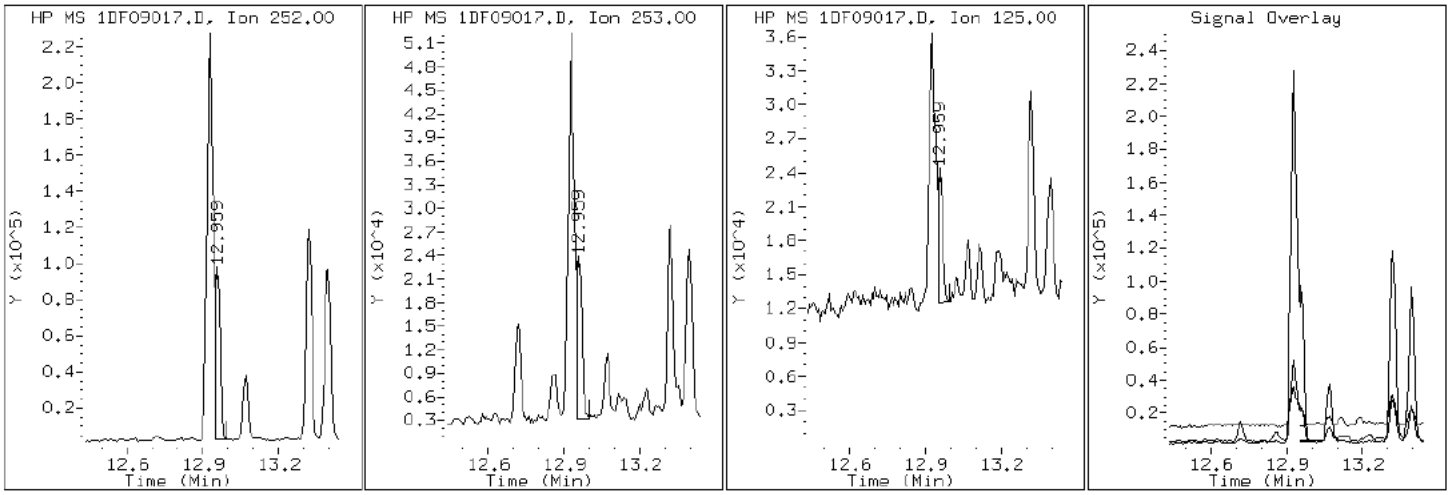
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

22 Benzo(k)fluoranthene



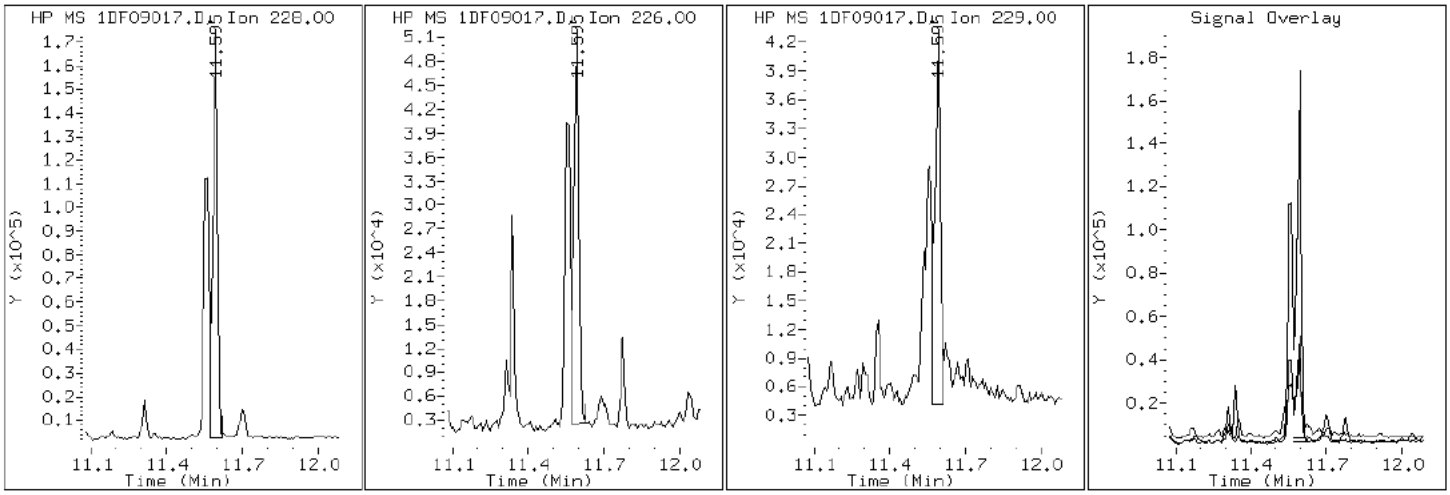
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

20 Chrysene



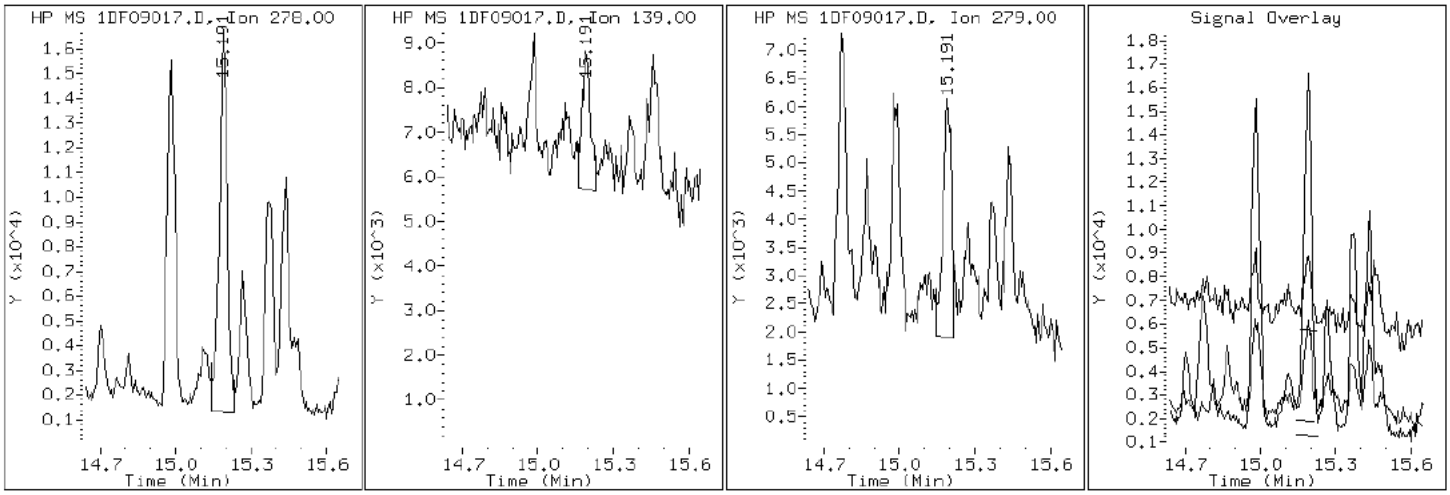
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

26 Dibenzo(a,h)anthracene



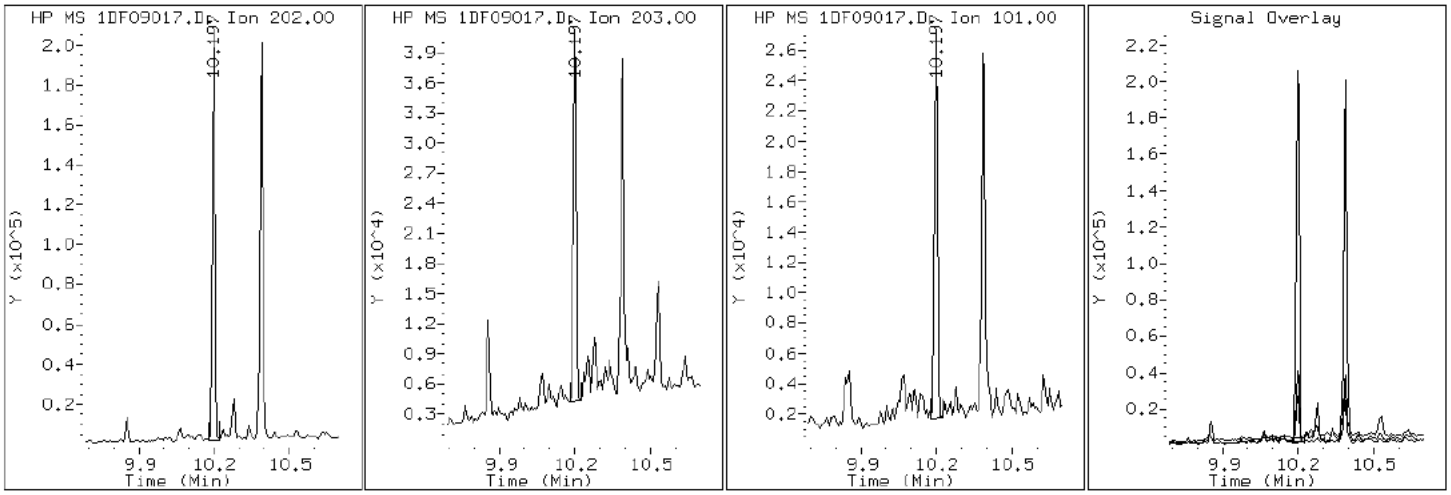
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

16 Fluoranthene



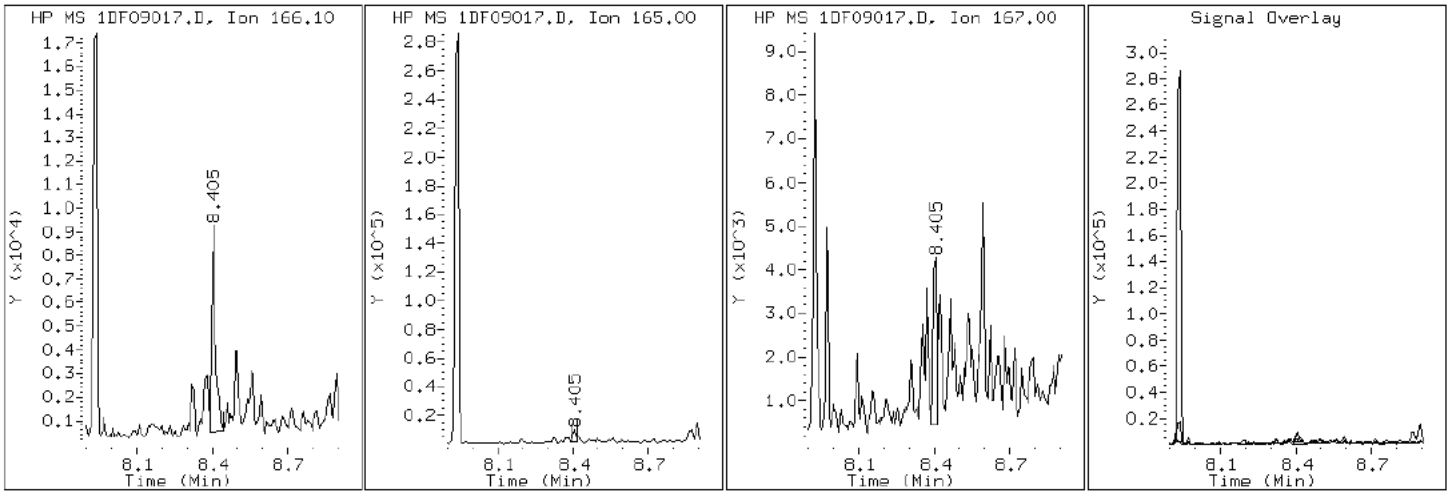
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

10 Fluorene



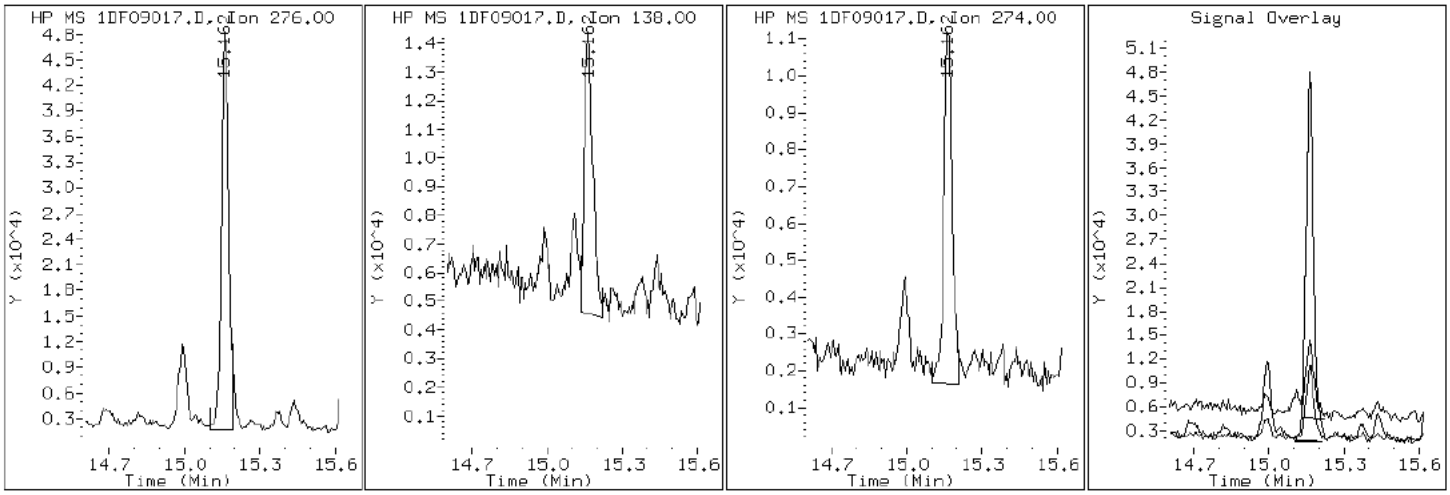
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

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



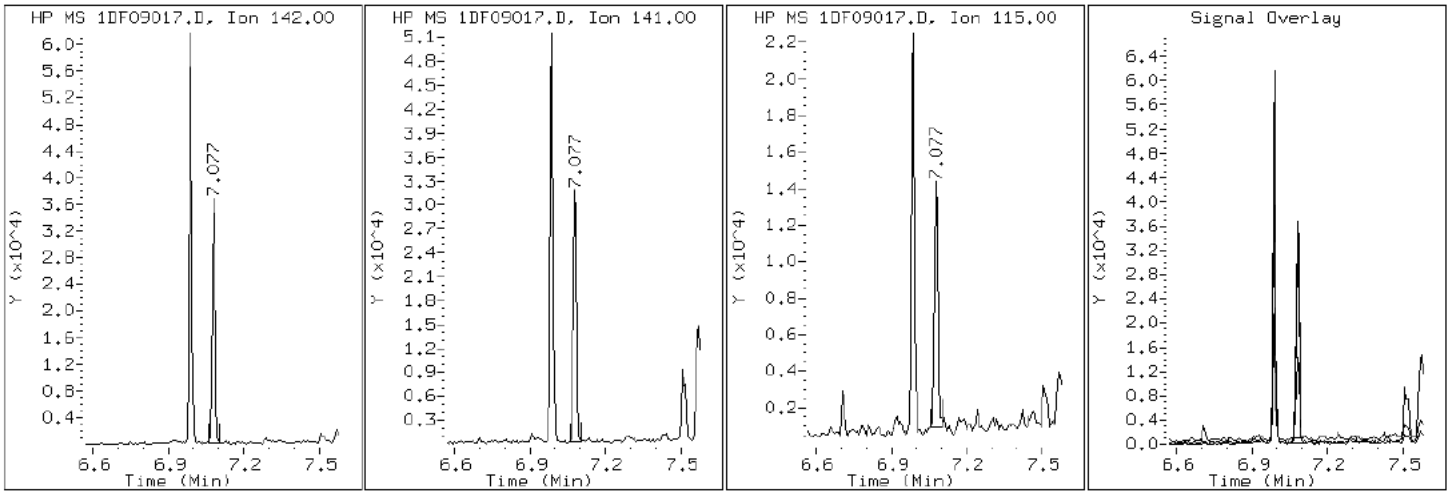
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

4 1-Methylnaphthalene



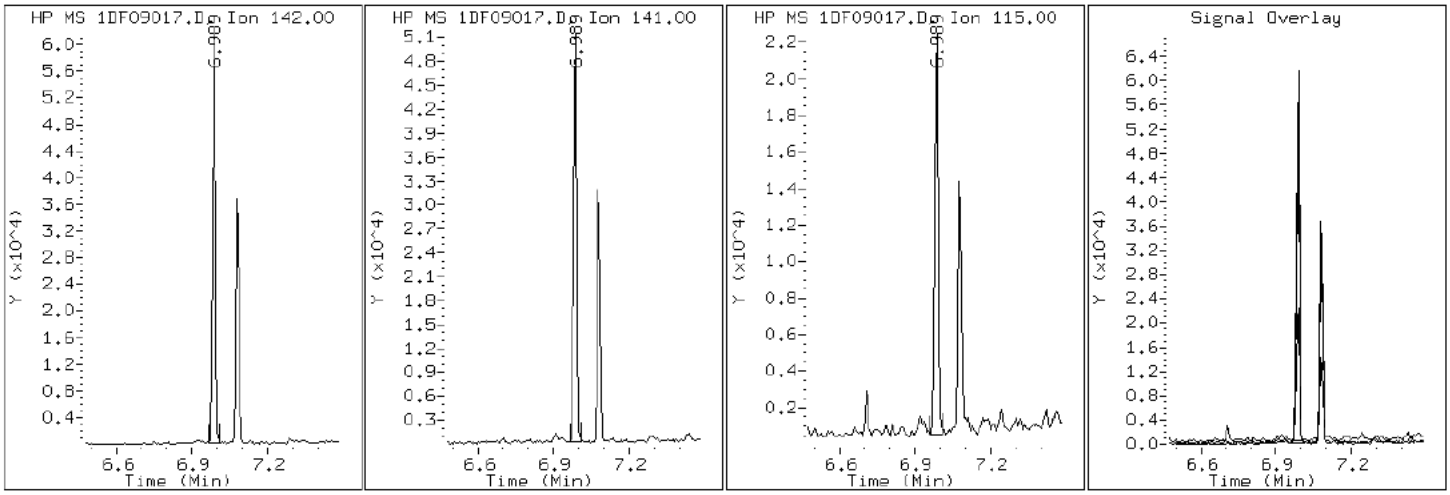
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

3 2-Methylnaphthalene



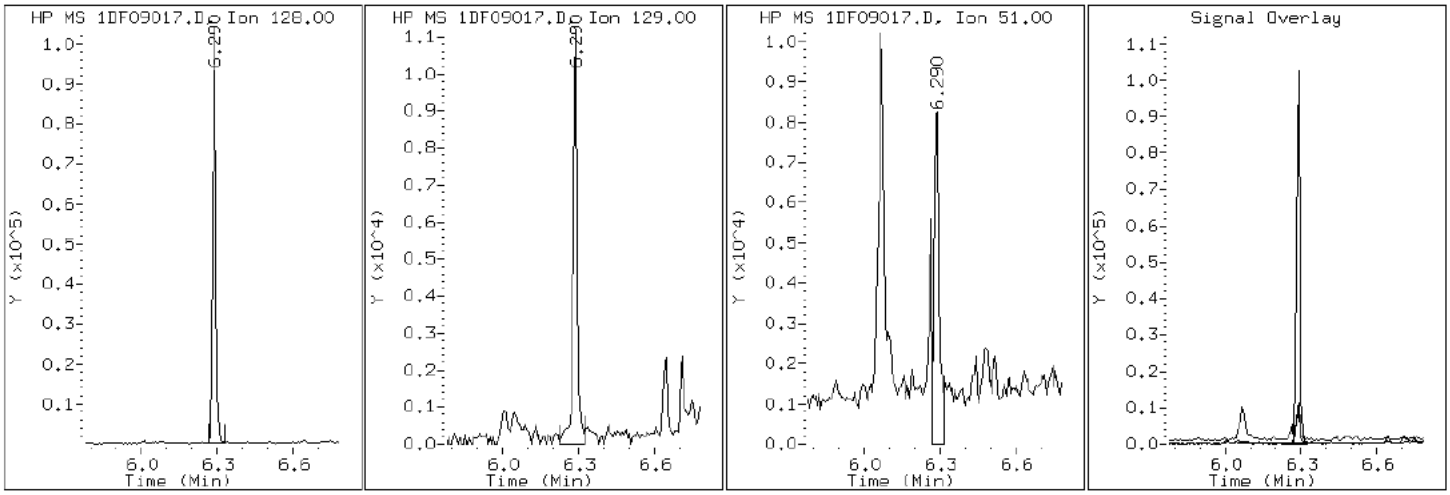
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

2 Naphthalene



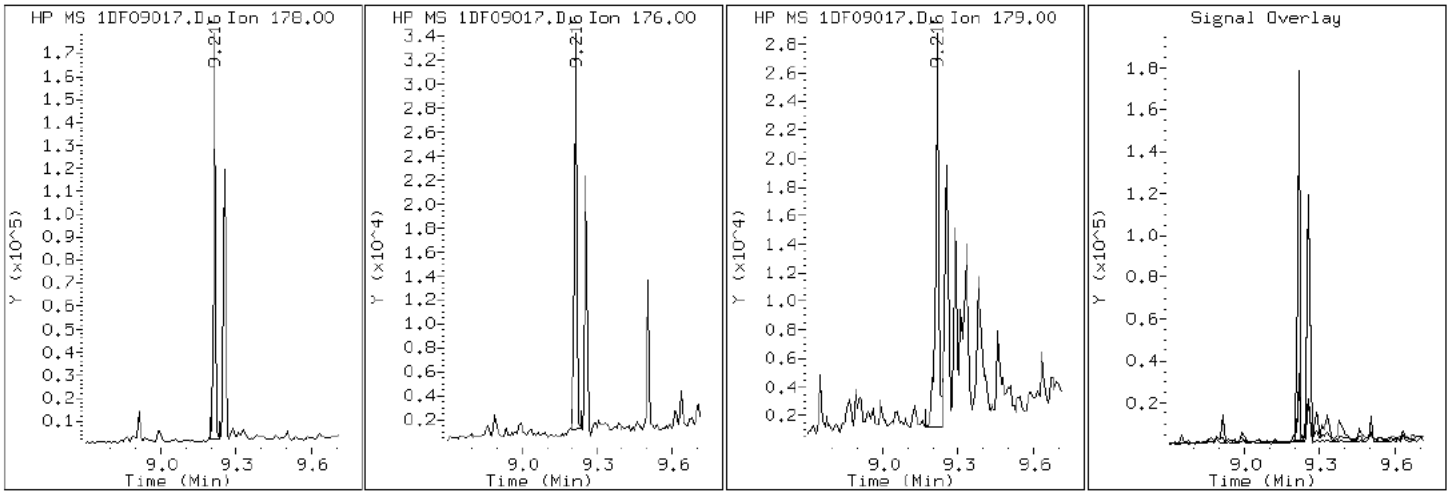
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

12 Phenanthrene



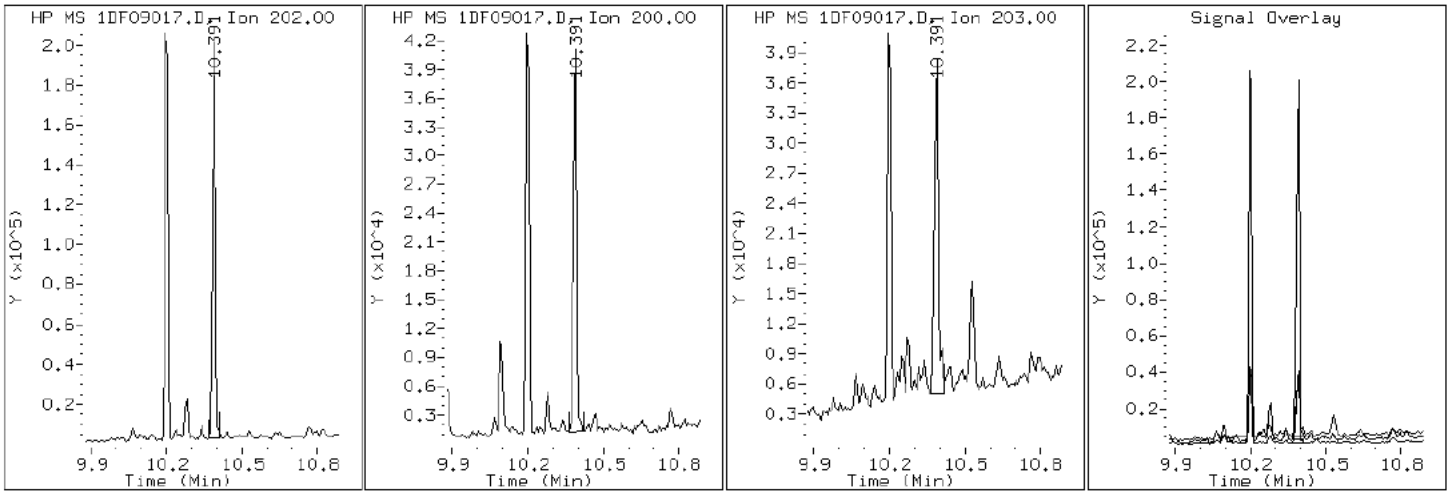
Data File: 1DF09017.D

Date: 09-JUN-2013 15:20

Client ID: FM0098C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-22-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09017.D
Inj. Date and Time: 09-JUN-2013 15:20
Instrument ID: BSMSD.i
Client ID: FM0098C-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

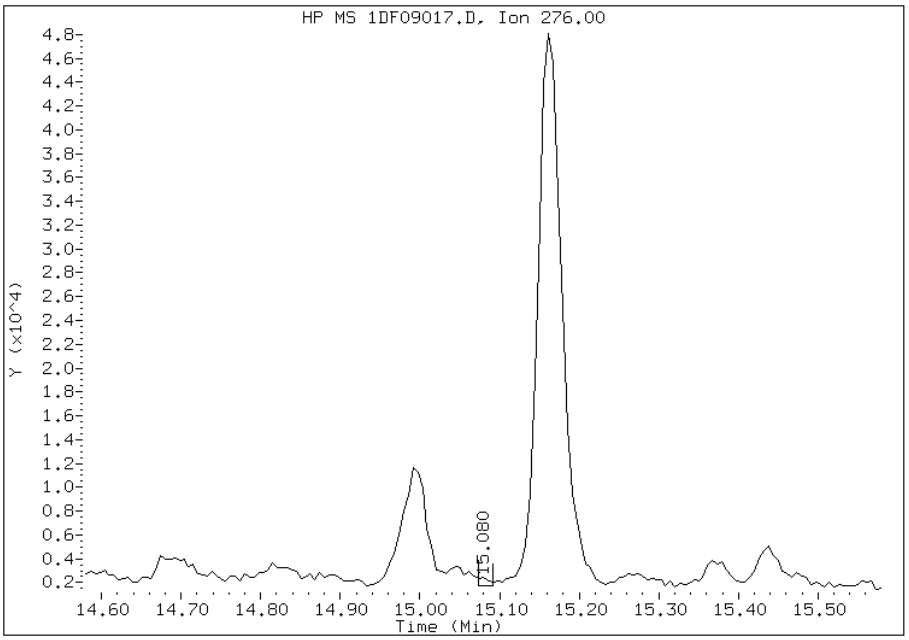
Processing Integration Results

RT: 15.08

Response: 785

Amount: 0

Conc: 13



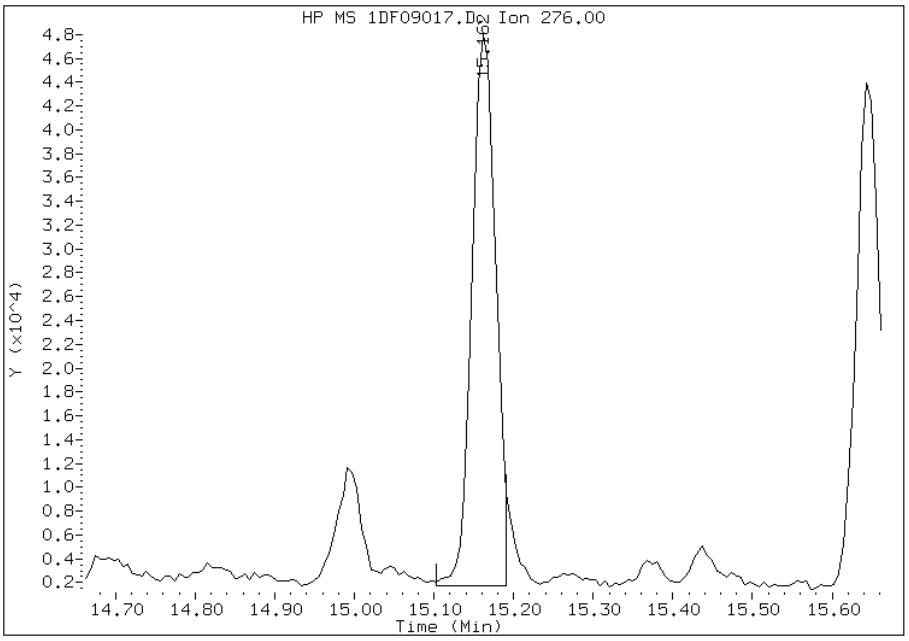
Manual Integration Results

RT: 15.16

Response: 96112

Amount: 1

Conc: 113



Manually Integrated By: cantins
Modification Date: 10-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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0098D-CS-SP | Lab Sample ID: 680-90852-23

Matrix: Solid | Lab File ID: 1DF09020.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 09:37

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.38(g) | Date Analyzed: 06/09/2013 16:27

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

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

% Moisture: 19.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	26	J	48	6.0
120-12-7	Anthracene	38		10	5.1
56-55-3	Benzo[a]anthracene	110		9.6	4.7
50-32-8	Benzo[a]pyrene	130		13	6.3
205-99-2	Benzo[b]fluoranthene	270		15	7.3
191-24-2	Benzo[g,h,i]perylene	79		24	5.3
207-08-9	Benzo[k]fluoranthene	74		9.6	4.3
218-01-9	Chrysene	180		11	5.4
53-70-3	Dibenz(a,h)anthracene	34		24	4.9
206-44-0	Fluoranthene	160		24	4.8
86-73-7	Fluorene	12	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	87		24	8.5
90-12-0	1-Methylnaphthalene	110		48	5.3
91-57-6	2-Methylnaphthalene	180		48	8.5
91-20-3	Naphthalene	170		48	5.3
85-01-8	Phenanthrene	160		9.6	4.7
129-00-0	Pyrene	130		24	4.5

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\1D060913.b\1DF09020.D
Lab Smp Id: 680-90852-A-23-A Client Smp ID: FM0098D-CS-SP
Inj Date : 09-JUN-2013 16:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-23-a
Misc Info : 680-90852-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 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	15.380	Weight Extracted
M	18.998	% 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	6.269	6.263	(1.000)	3040886	40.0000	
* 7 Acenaphthene-d10	164	7.944	7.932	(1.000)	1750336	40.0000	
* 11 Phenanthrene-d10	188	9.201	9.189	(1.000)	2756125	40.0000	
$ 15 o-Terphenyl	230	9.507	9.500	(1.033)	256056	6.34148	510
* 19 Chrysene-d12	240	11.575	11.557	(1.000)	2724024	40.0000	
* 24 Perylene-d12	264	13.496	13.460	(1.000)	2512632	40.0000	
2 Naphthalene	128	6.293	6.281	(1.004)	155047	2.06757	160
3 2-Methylnaphthalene	142	6.992	6.980	(1.115)	105106	2.20130	180
4 1-Methylnaphthalene	142	7.086	7.074	(1.130)	67991	1.38319	110
6 Acenaphthylene	152	7.815	7.802	(0.984)	23199	0.31967	26
10 Fluorene	166	8.408	8.402	(1.058)	8083	0.15518	12(Q)
12 Phenanthrene	178	9.219	9.207	(1.002)	144837	1.94035	160
13 Anthracene	178	9.260	9.248	(1.006)	34698	0.47908	38
16 Fluoranthene	202	10.206	10.194	(1.109)	152570	1.99792	160

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.394	10.382	(0.898)	130461	1.63582	130
18 Benzo(a)anthracene	228	11.563	11.539	(0.999)	109519	1.35471	110
20 Chrysene	228	11.598	11.580	(1.002)	164233	2.25602	180
21 Benzo(b)fluoranthene	252	12.926	12.896	(0.958)	208734	3.31603	270
22 Benzo(k)fluoranthene	252	12.956	12.938	(0.960)	60446	0.91699	74
23 Benzo(a)pyrene	252	13.390	13.361	(0.992)	95249	1.62693	130
25 Indeno(1,2,3-cd)pyrene	276	15.153	15.111	(1.123)	60719	1.07773	86(M)
26 Dibenzo(a,h)anthracene	278	15.182	15.147	(1.125)	20879	0.41965	34
27 Benzo(g,h,i)perylene	276	15.629	15.587	(1.158)	56215	0.98531	79

QC Flag Legend

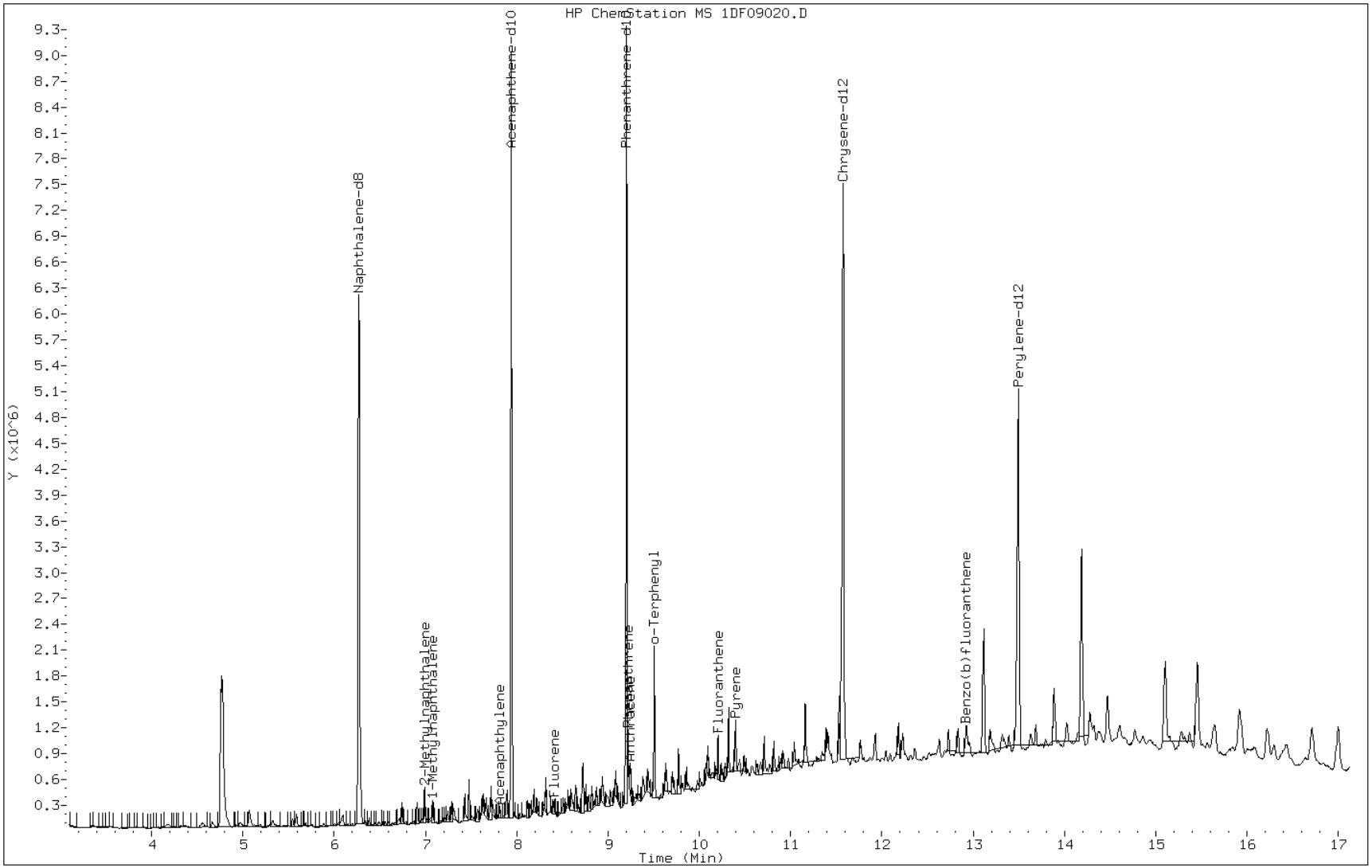
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC



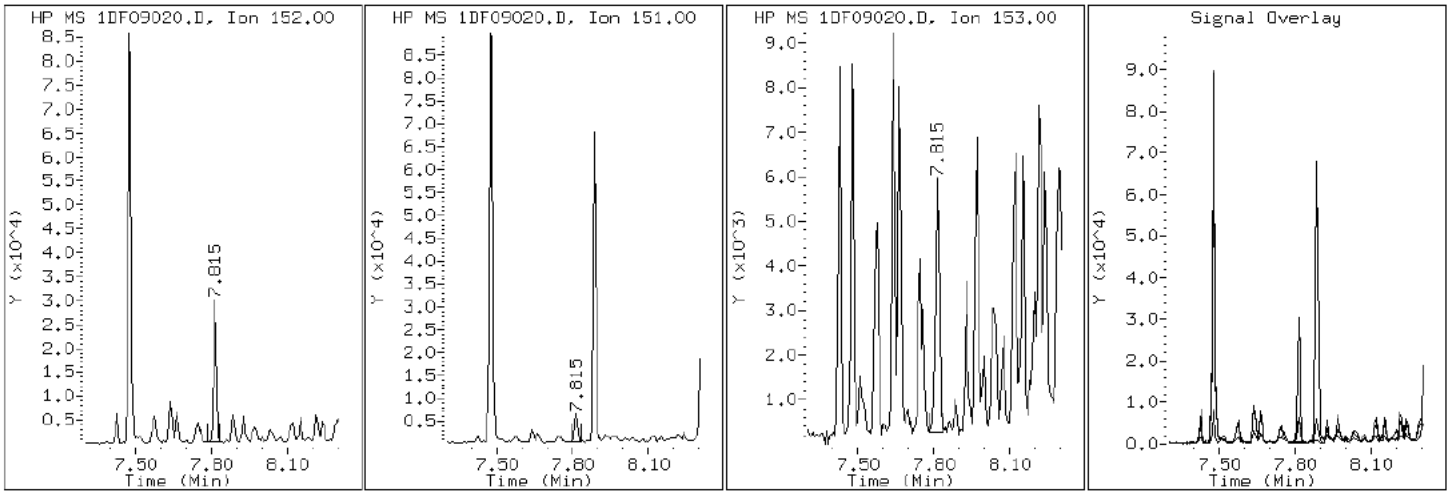
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

6 Acenaphthylene



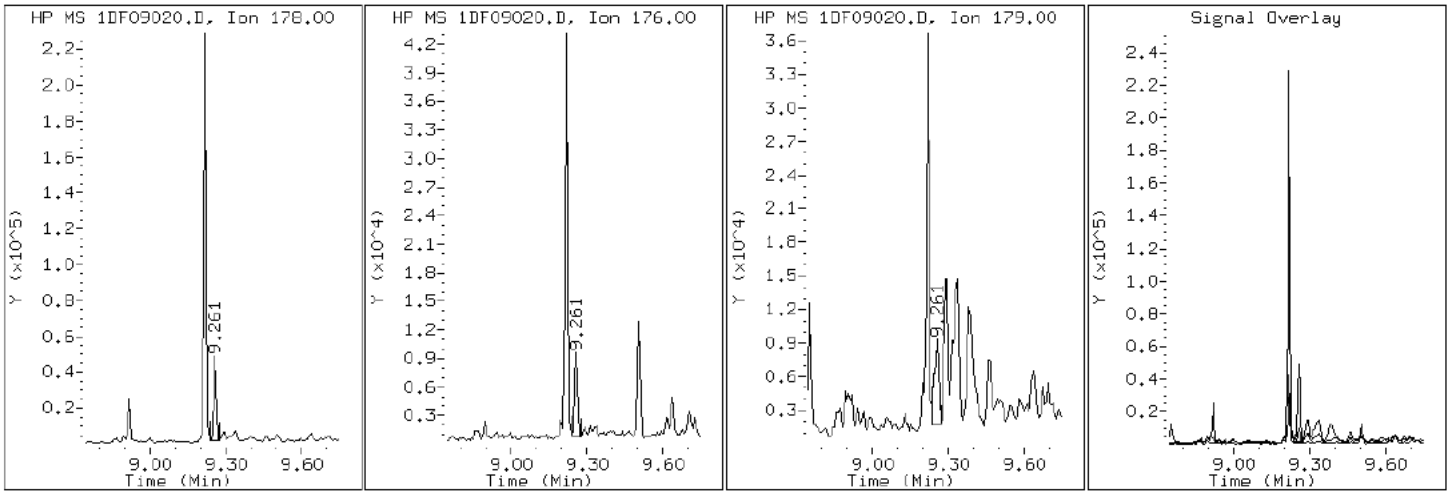
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

13 Anthracene



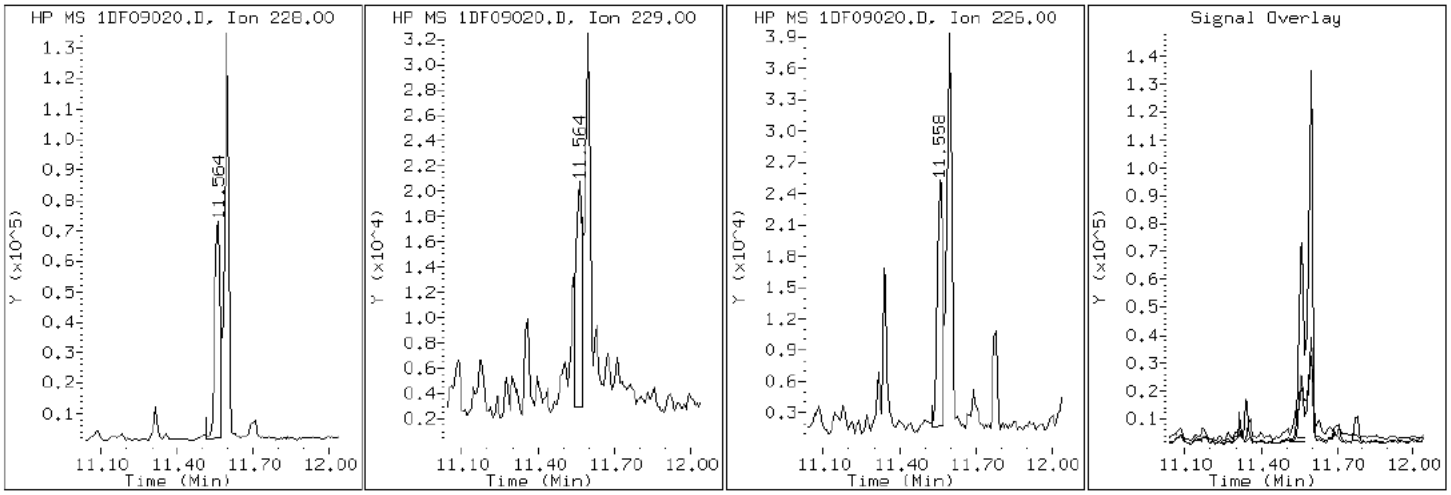
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

18 Benzo(a)anthracene



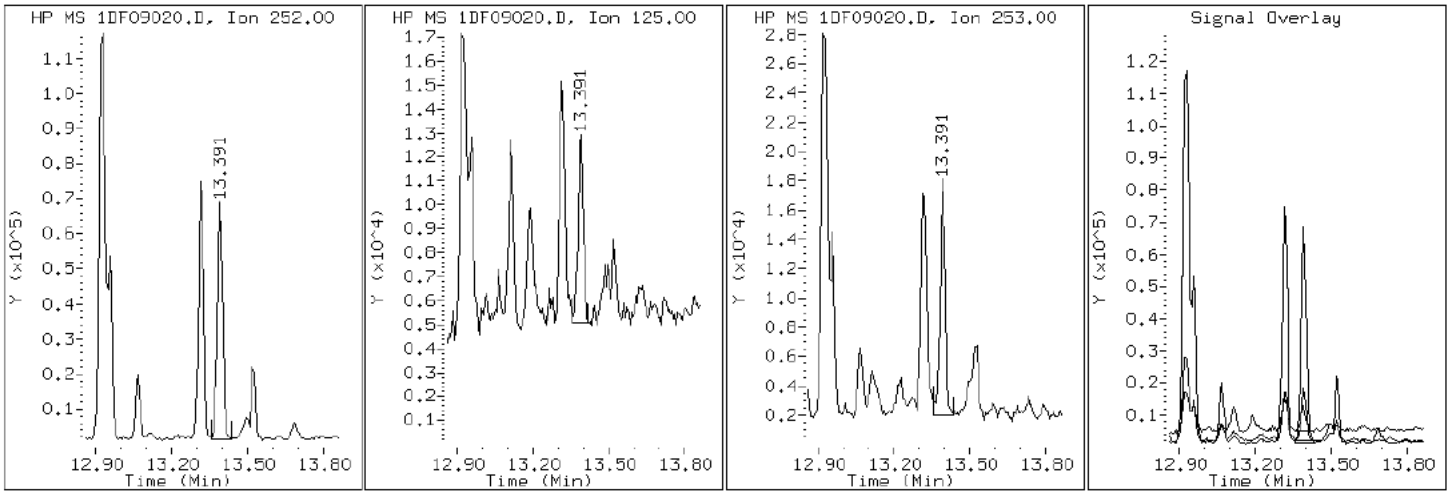
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

23 Benzo(a)pyrene



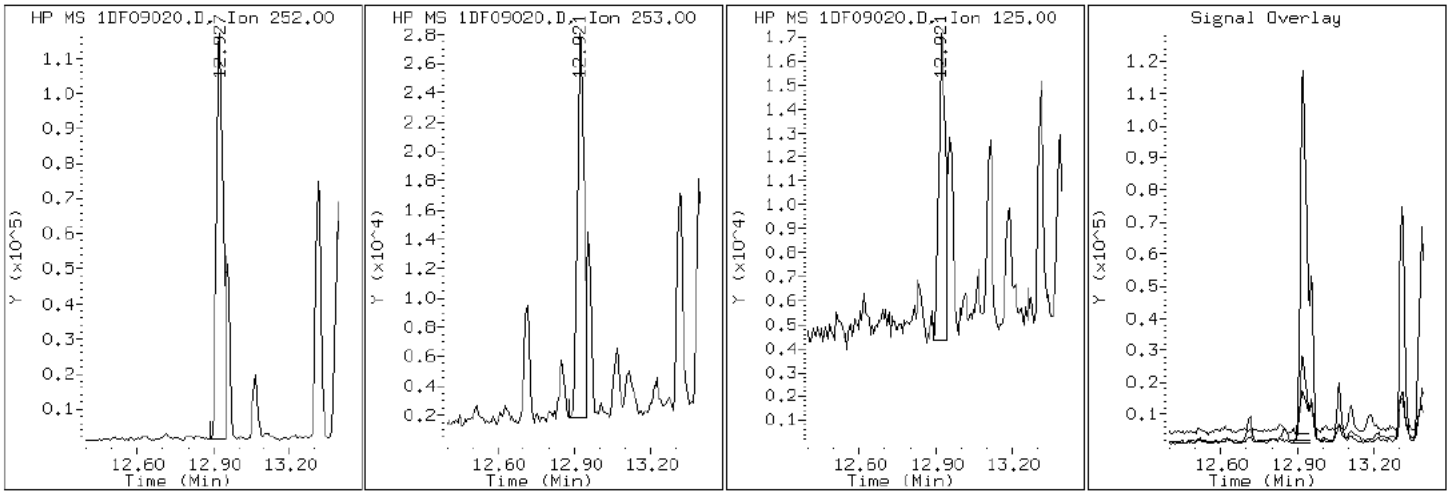
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

21 Benzo(b)fluoranthene



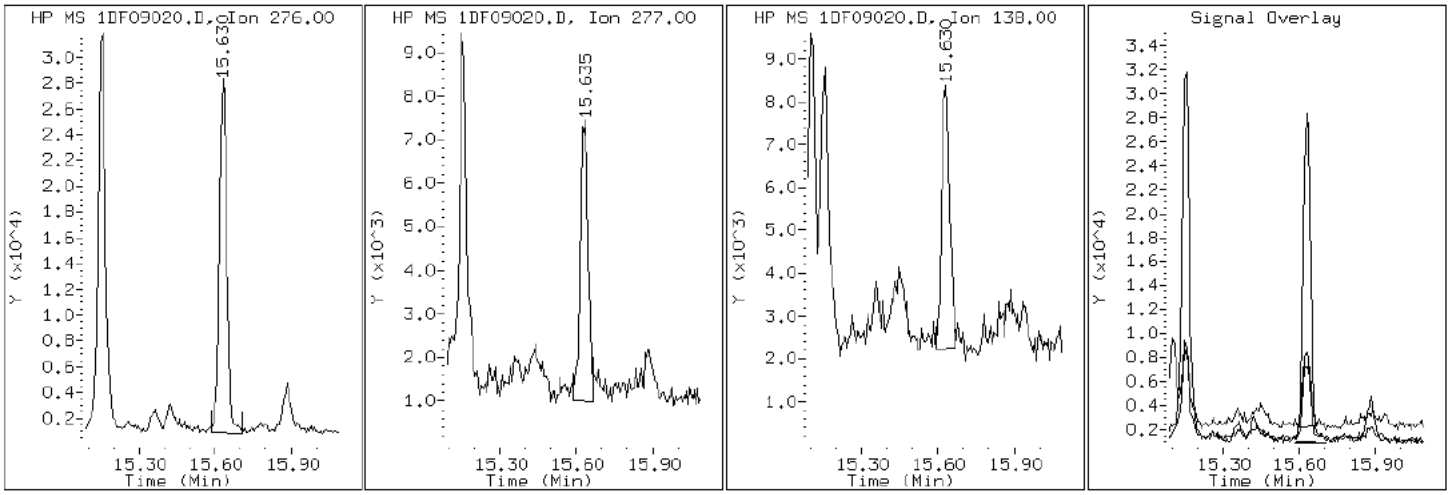
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

27 Benzo(g,h,i)perylene



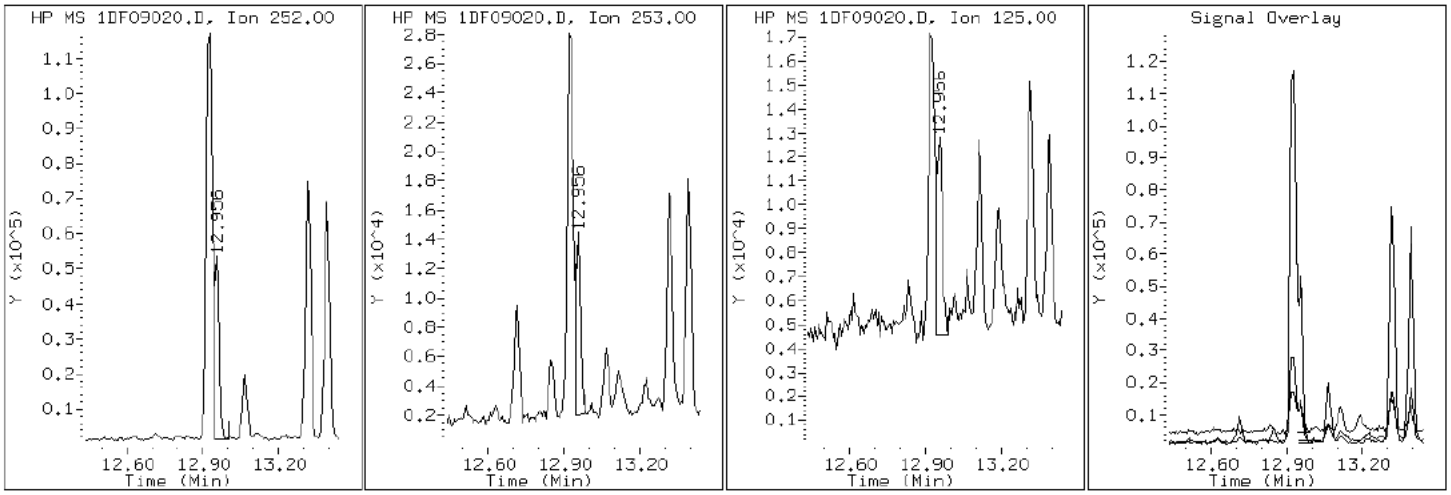
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

22 Benzo(k)fluoranthene



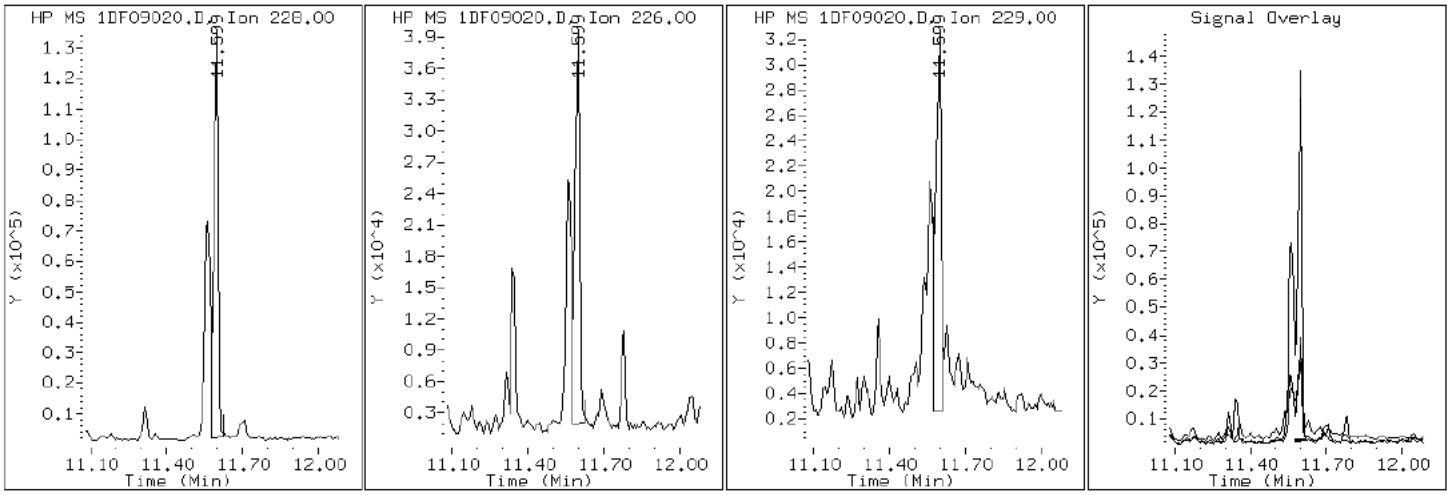
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

20 Chrysene



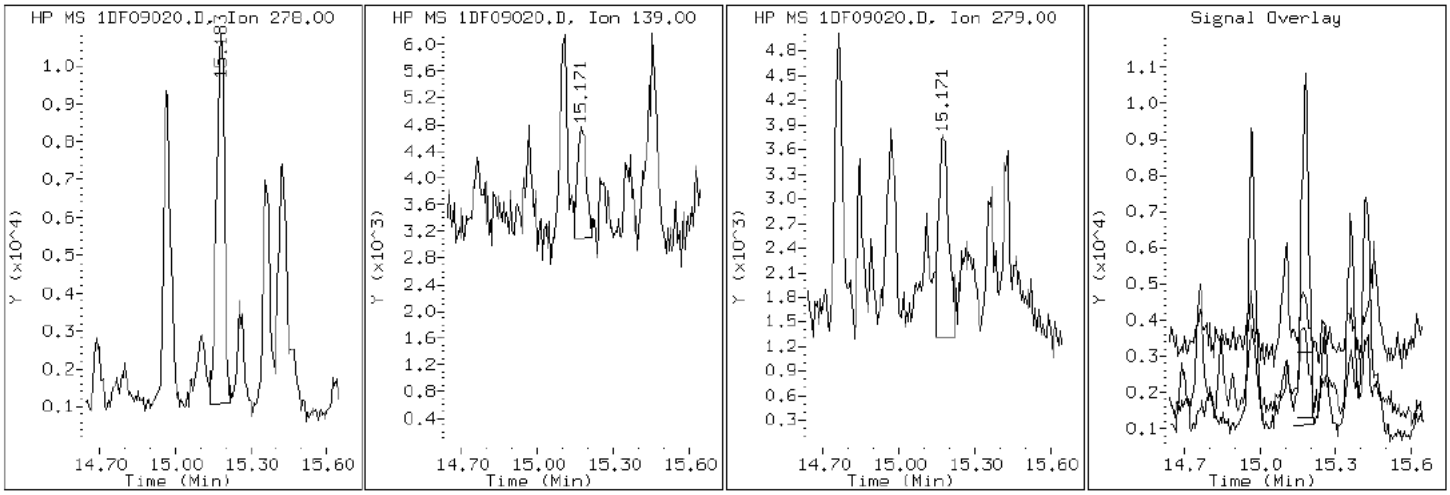
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

26 Dibenzo(a,h)anthracene



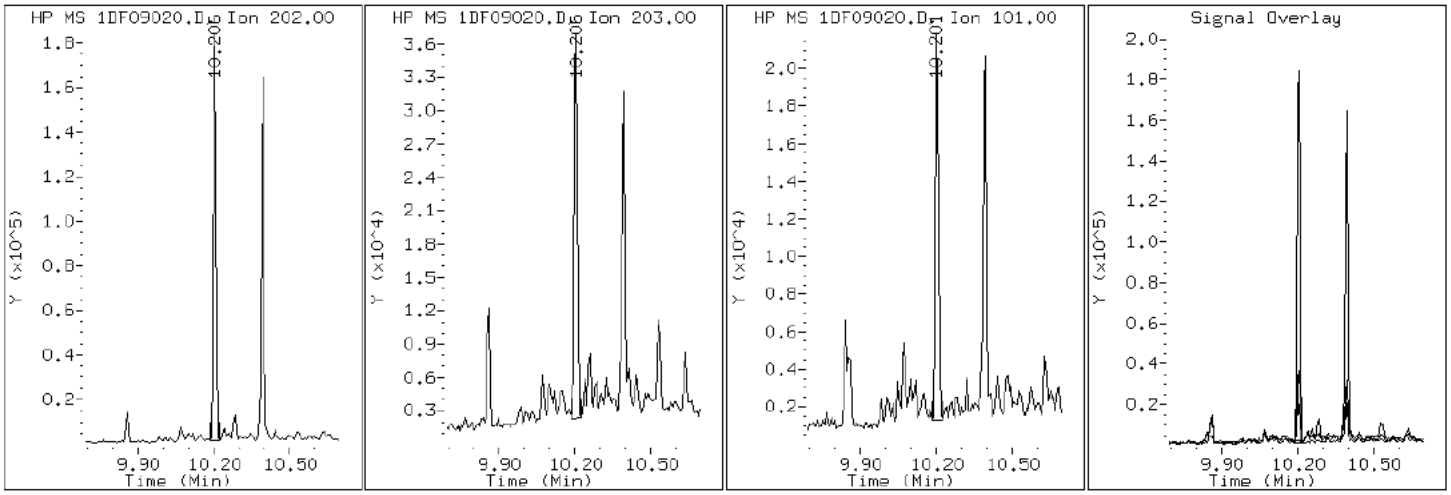
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

16 Fluoranthene



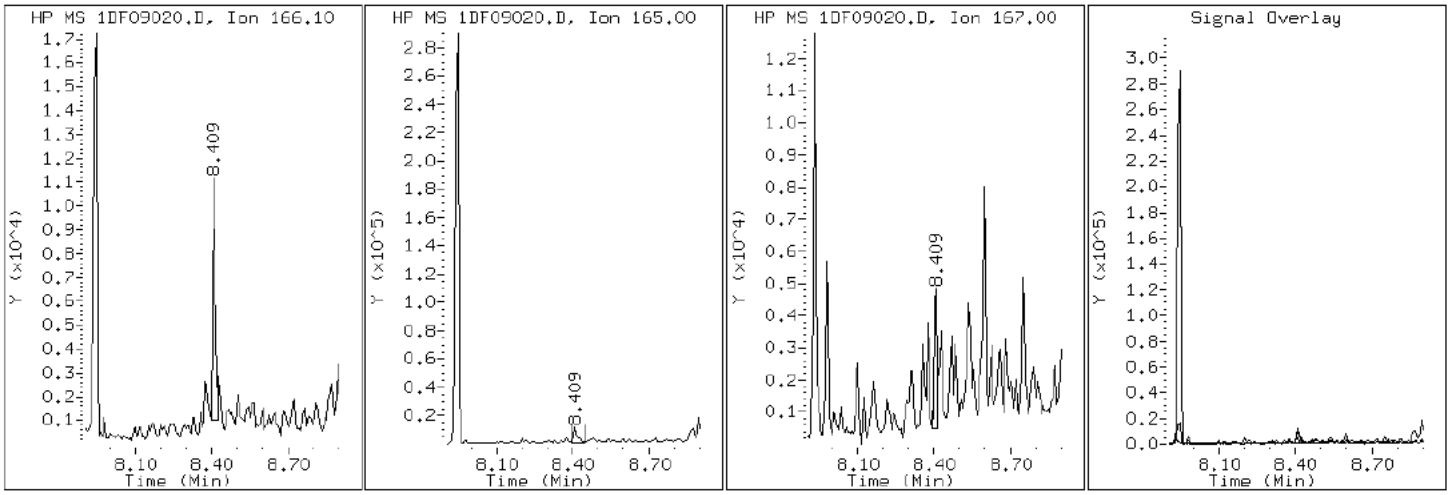
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

10 Fluorene



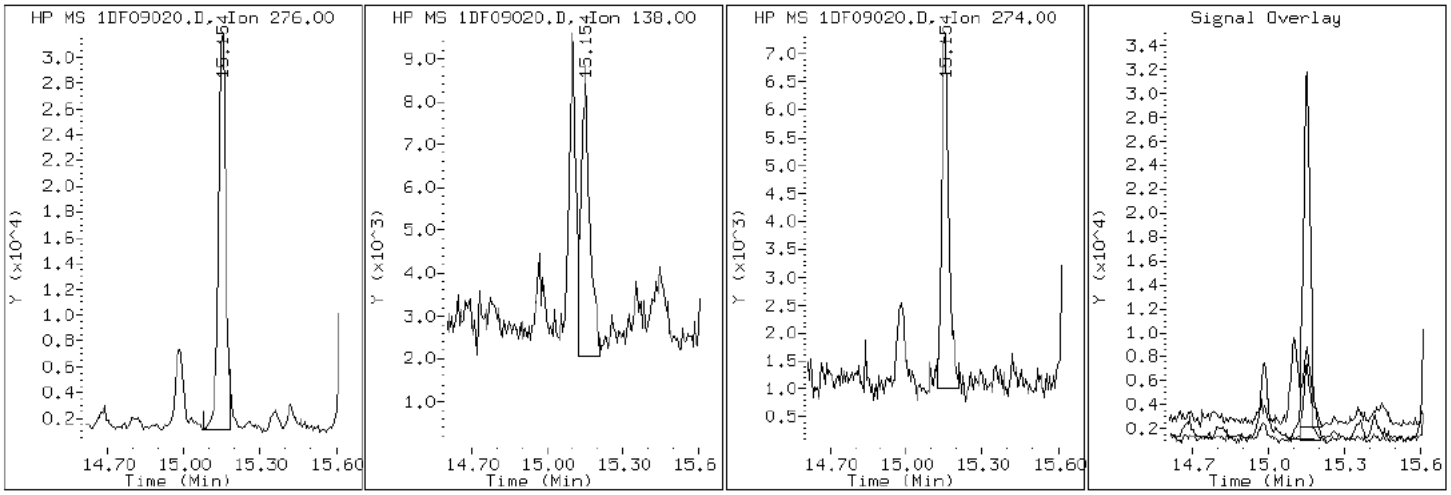
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

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



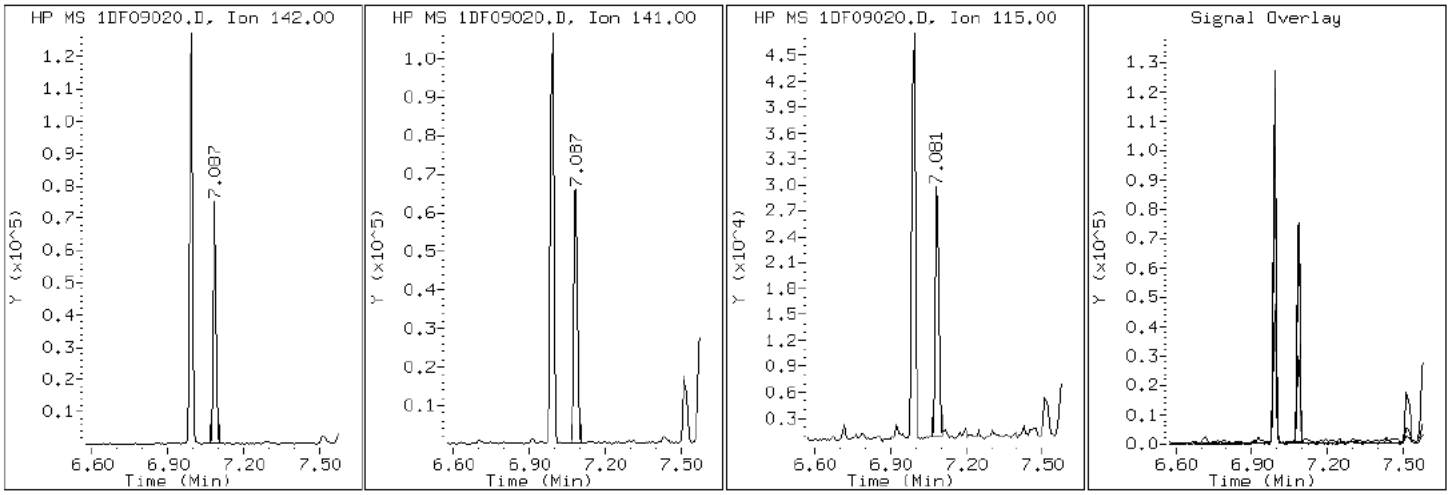
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

4 1-Methylnaphthalene



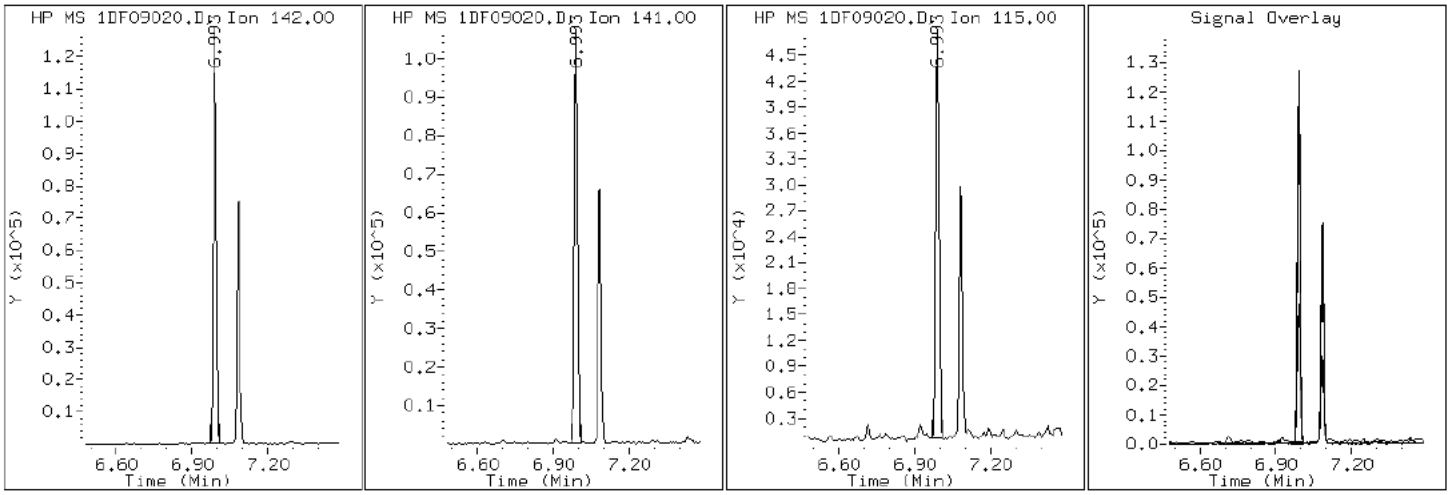
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

3 2-Methylnaphthalene



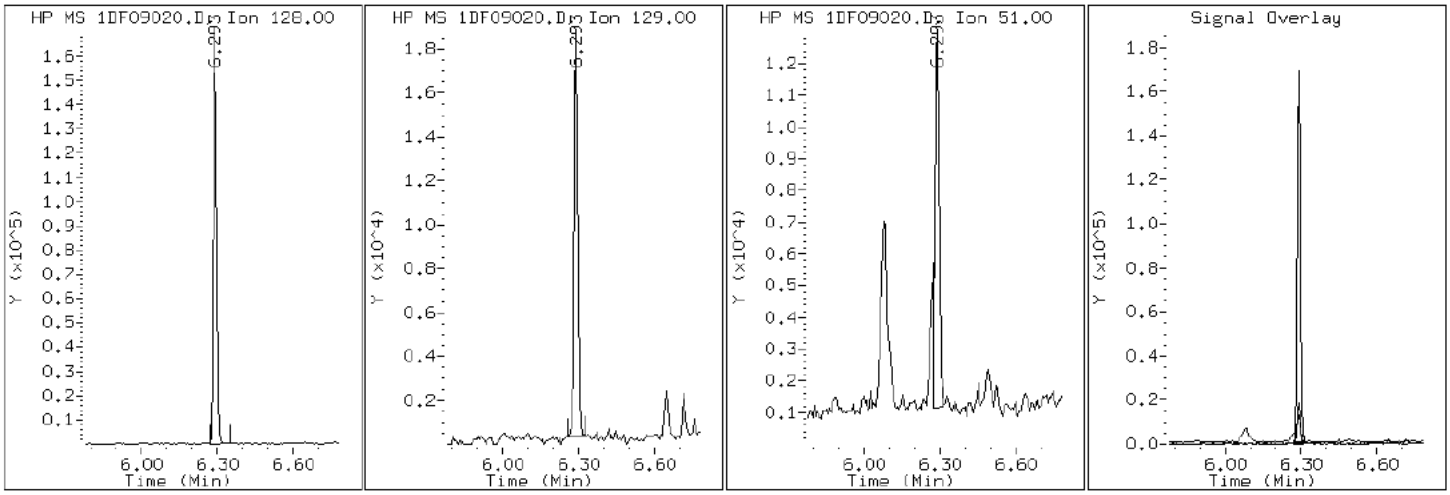
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

2 Naphthalene



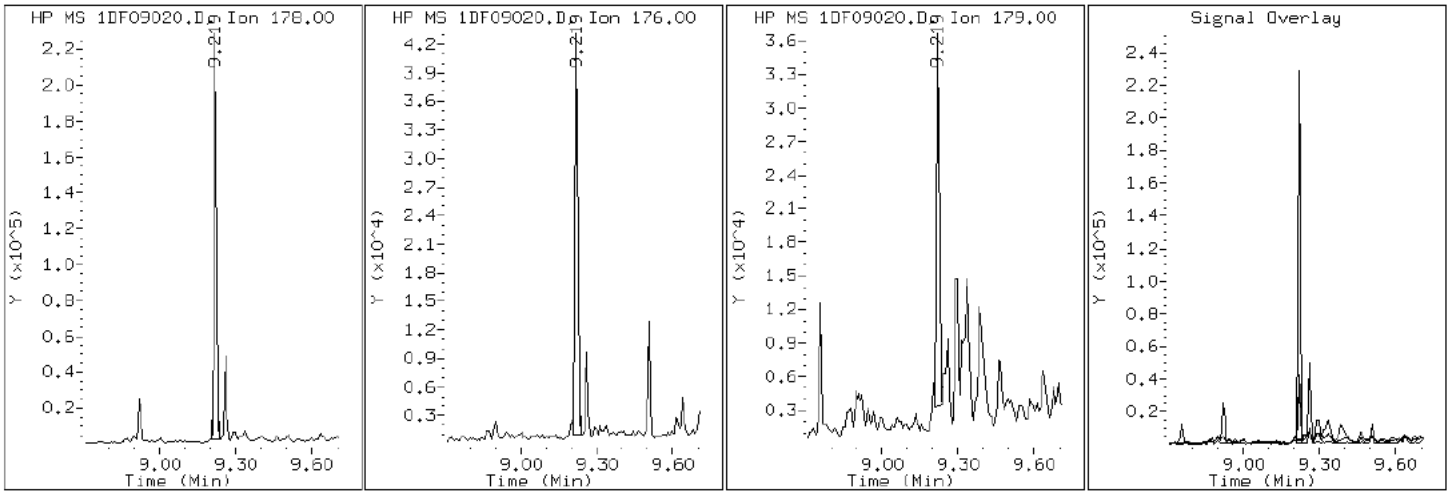
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

12 Phenanthrene



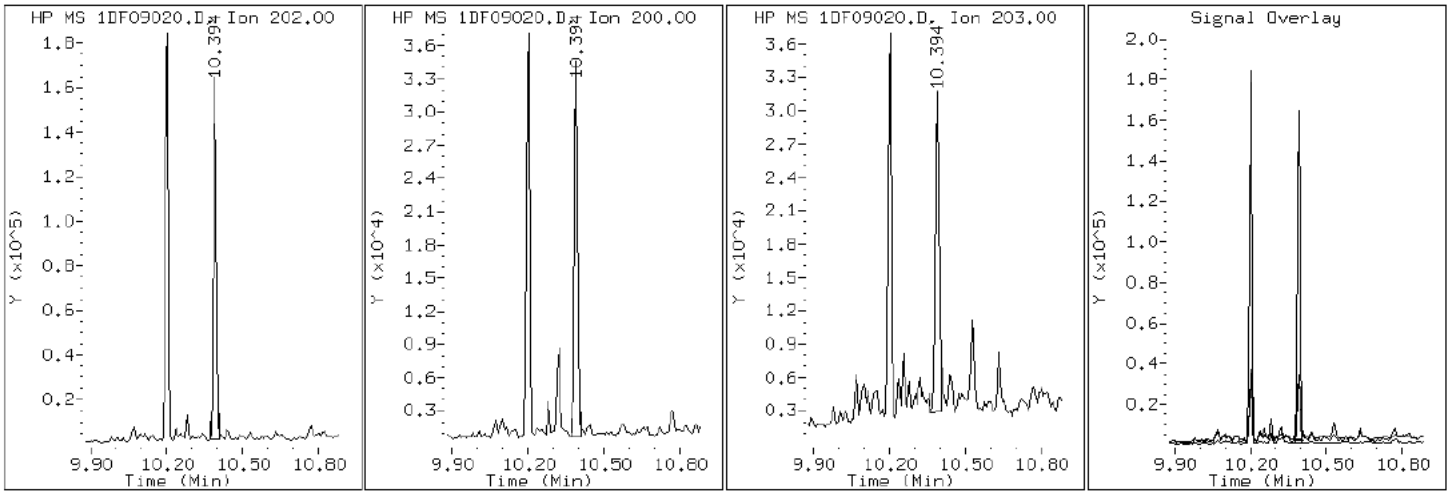
Data File: 1DF09020.D

Date: 09-JUN-2013 16:27

Client ID: FM0098D-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-23-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09020.D
Inj. Date and Time: 09-JUN-2013 16:27
Instrument ID: BSMSD.i
Client ID: FM0098D-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

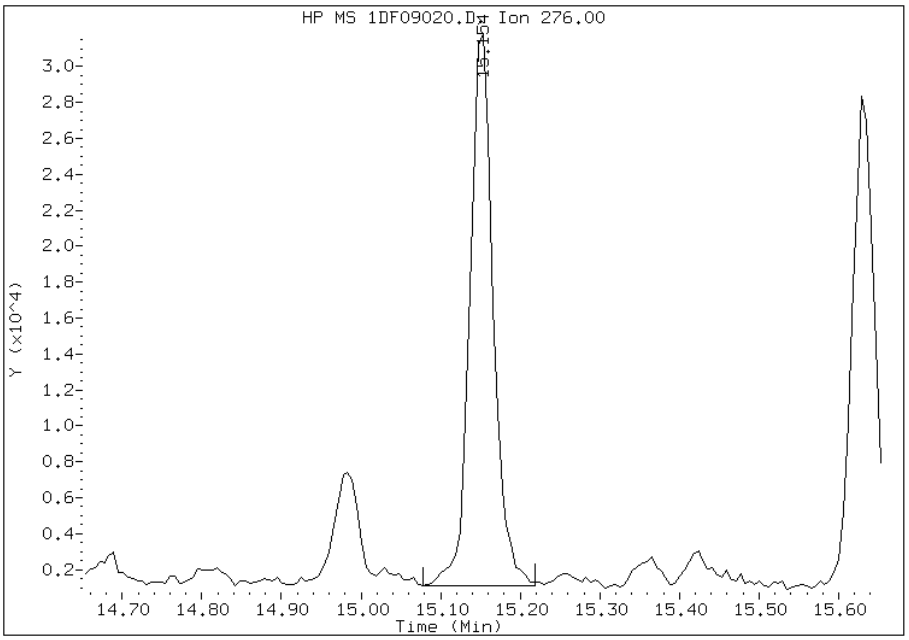
Processing Integration Results

RT: 15.15

Response: 62567

Amount: 1

Conc: 89



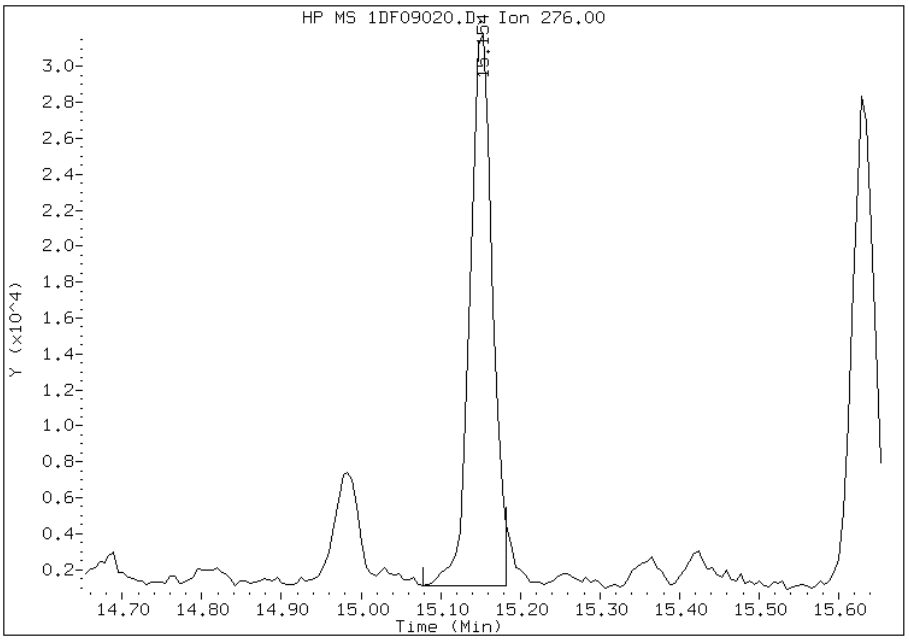
Manual Integration Results

RT: 15.15

Response: 60719

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 12:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0175A-CS-SP | Lab Sample ID: 680-90852-24

Matrix: Solid | Lab File ID: 1DF09021.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 10:32

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.44(g) | Date Analyzed: 06/09/2013 16:50

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

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

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	51	J	180	23
120-12-7	Anthracene	110		39	19
56-55-3	Benzo[a]anthracene	320		37	18
50-32-8	Benzo[a]pyrene	310		48	24
205-99-2	Benzo[b]fluoranthene	540		56	28
191-24-2	Benzo[g,h,i]perylene	180		92	20
207-08-9	Benzo[k]fluoranthene	190		37	17
218-01-9	Chrysene	350		42	21
53-70-3	Dibenz(a,h)anthracene	79	J	92	19
206-44-0	Fluoranthene	530		92	18
86-73-7	Fluorene	21	J	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	210		92	33
90-12-0	1-Methylnaphthalene	87	J	180	20
91-57-6	2-Methylnaphthalene	130	J	180	33
91-20-3	Naphthalene	120	J	180	20
85-01-8	Phenanthrene	330		37	18
129-00-0	Pyrene	410		92	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09021.D
Lab Smp Id: 680-90852-A-24-A Client Smp ID: HP0175A-CS-SP
Inj Date : 09-JUN-2013 16:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-24-a
Misc Info : 680-90852-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 20
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	15.440	Weight Extracted
M	15.730	% 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	6.272	6.263	(1.000)	3089942	40.0000	
* 7 Acenaphthene-d10	164	7.941	7.932	(1.000)	1820319	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.189	(1.000)	2890959	40.0000	
$ 15 o-Terphenyl	230	9.504	9.500	(1.033)	78103	1.84408	570
* 19 Chrysene-d12	240	11.572	11.557	(1.000)	2768455	40.0000	
* 24 Perylene-d12	264	13.493	13.460	(1.000)	2513190	40.0000	
2 Naphthalene	128	6.290	6.281	(1.003)	28717	0.37687	120
3 2-Methylnaphthalene	142	6.989	6.980	(1.114)	21176	0.43646	130
4 1-Methylnaphthalene	142	7.083	7.074	(1.129)	14111	0.28251	87
6 Acenaphthylene	152	7.812	7.802	(0.984)	12483	0.16540	51
10 Fluorene	166	8.411	8.402	(1.059)	3783	0.06983	21
12 Phenanthrene	178	9.216	9.207	(1.001)	85091	1.08678	330
13 Anthracene	178	9.257	9.248	(1.006)	26446	0.34811	110
16 Fluoranthene	202	10.203	10.194	(1.109)	138574	1.73000	530

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.391	10.382	(0.898)	108587	1.33969	410
18 Benzo(a)anthracene	228	11.560	11.539	(0.999)	84648	1.03026	320
20 Chrysene	228	11.595	11.580	(1.002)	84273	1.13905	350
21 Benzo(b)fluoranthene	252	12.917	12.896	(0.957)	110897	1.76136	540
22 Benzo(k)fluoranthene	252	12.953	12.938	(0.960)	40903	0.62037	190
23 Benzo(a)pyrene	252	13.387	13.361	(0.992)	56457	1.00423	310
25 Indeno(1,2,3-cd)pyrene	276	15.138	15.111	(1.122)	34430	0.67509	210(M)
26 Dibenzo(a,h)anthracene	278	15.174	15.147	(1.125)	11178	0.25807	79
27 Benzo(g,h,i)perylene	276	15.614	15.587	(1.157)	33315	0.58380	180

QC Flag Legend

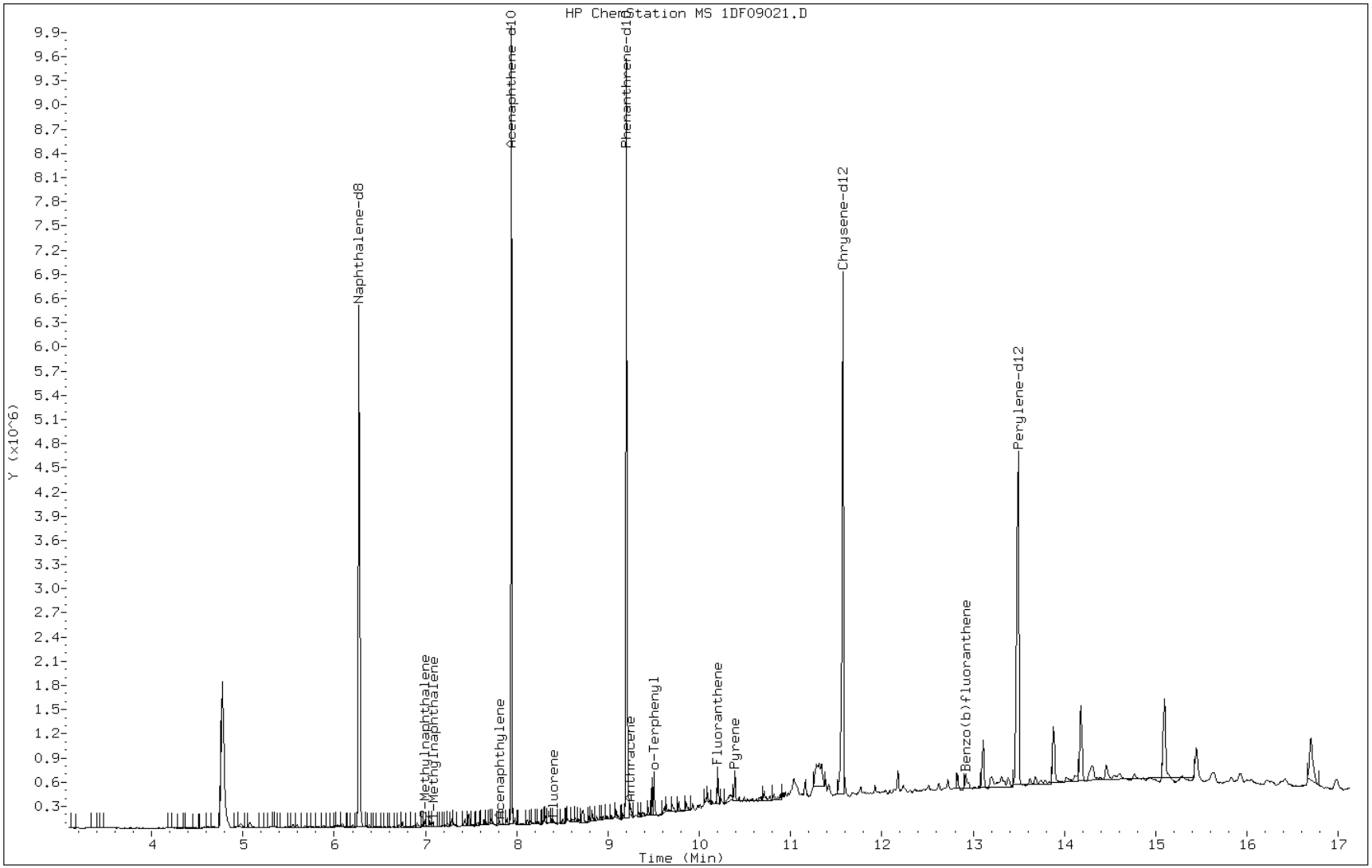
M - Compound response manually integrated.

Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC



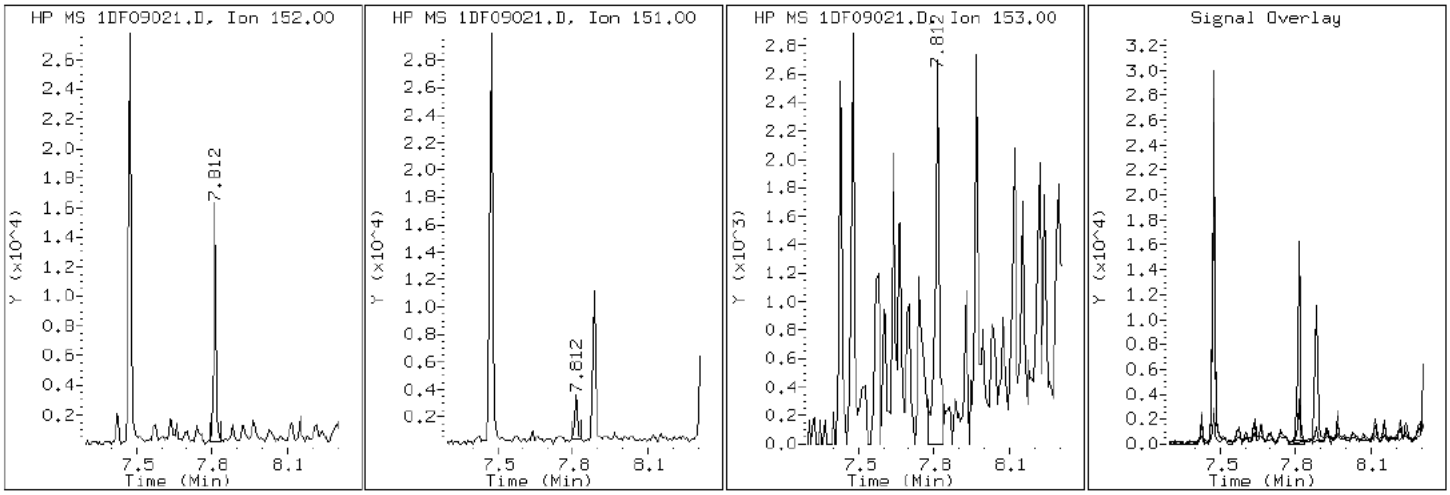
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

6 Acenaphthylene



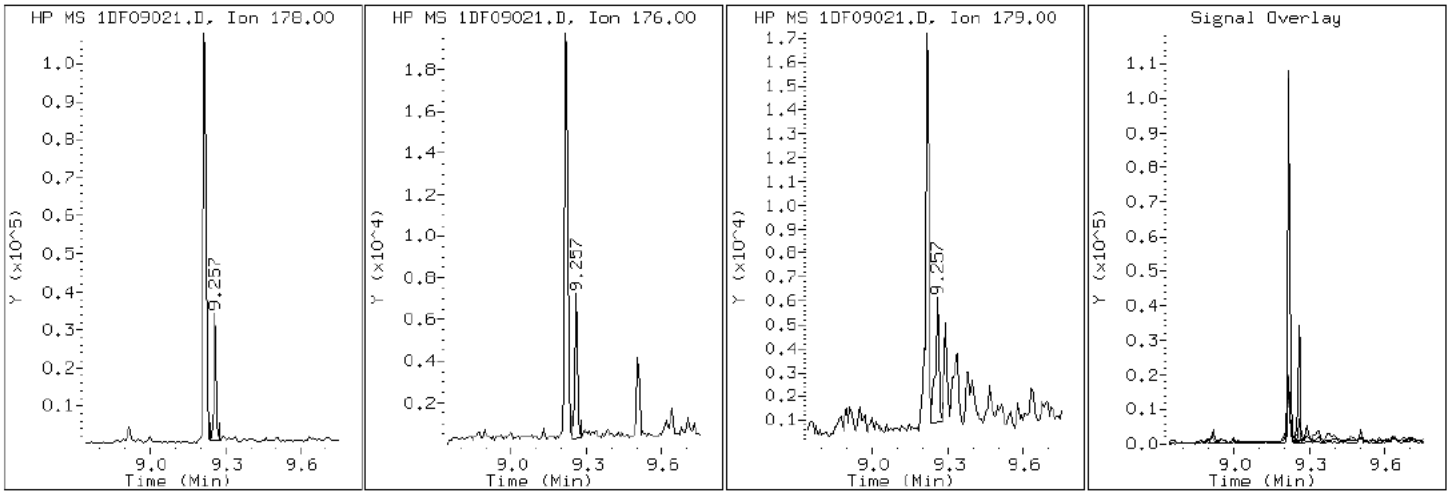
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

13 Anthracene



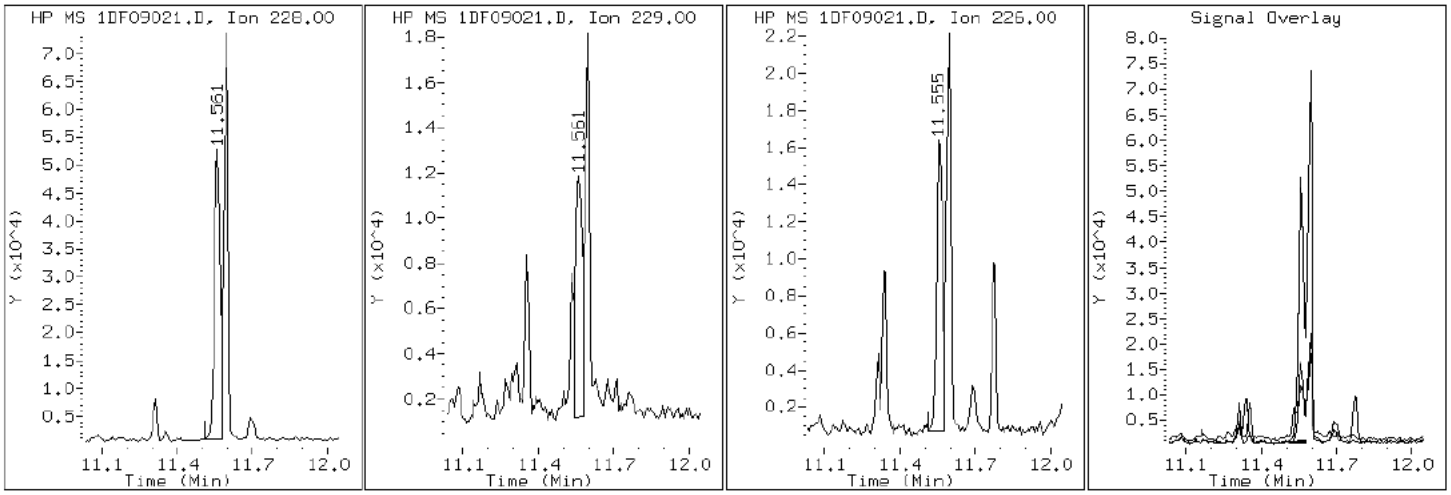
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

18 Benzo(a)anthracene



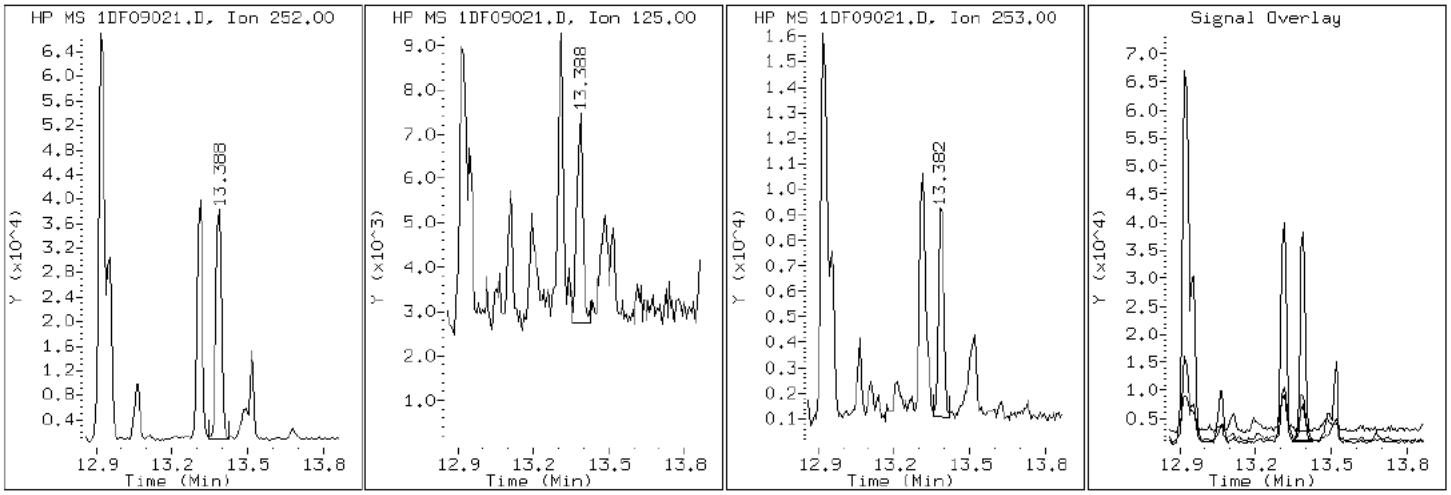
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

23 Benzo(a)pyrene



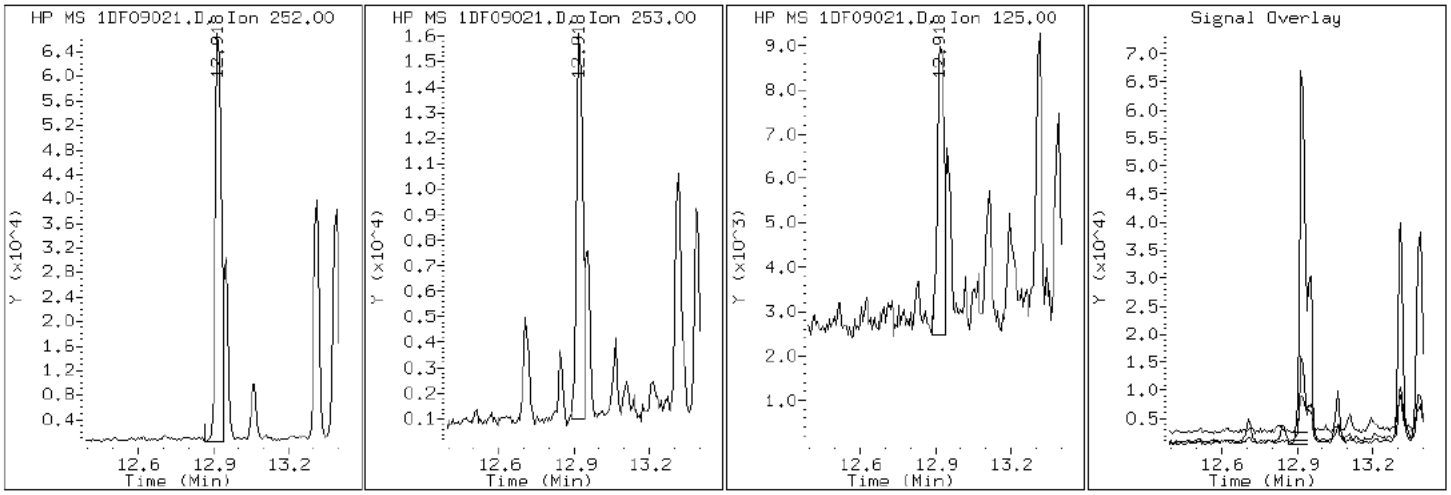
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

21 Benzo(b)fluoranthene



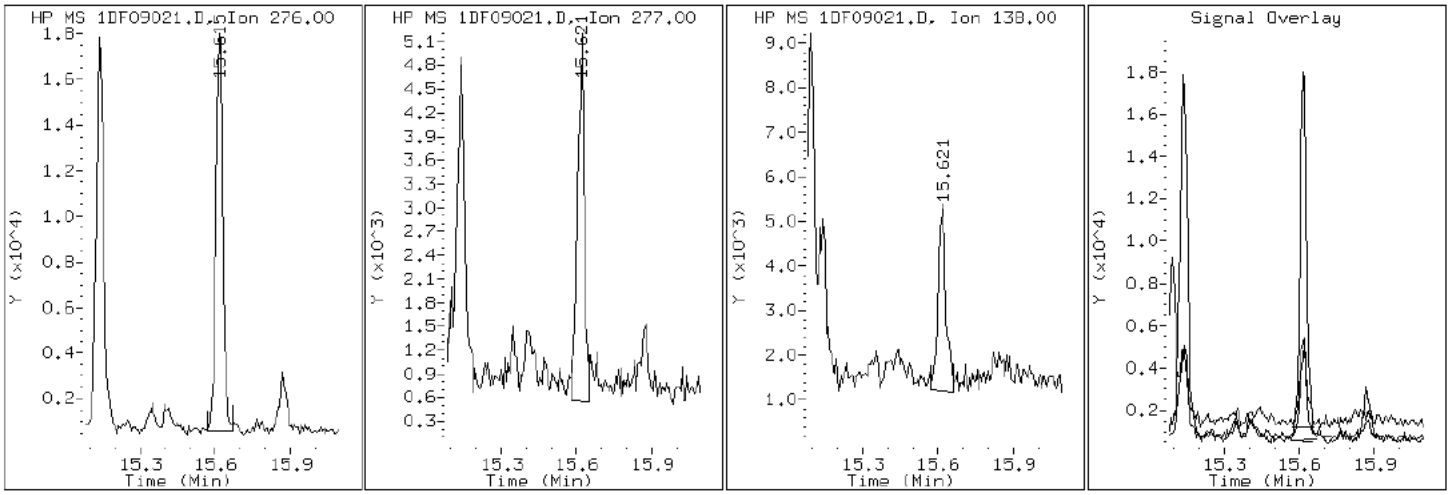
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

27 Benzo(g,h,i)perylene



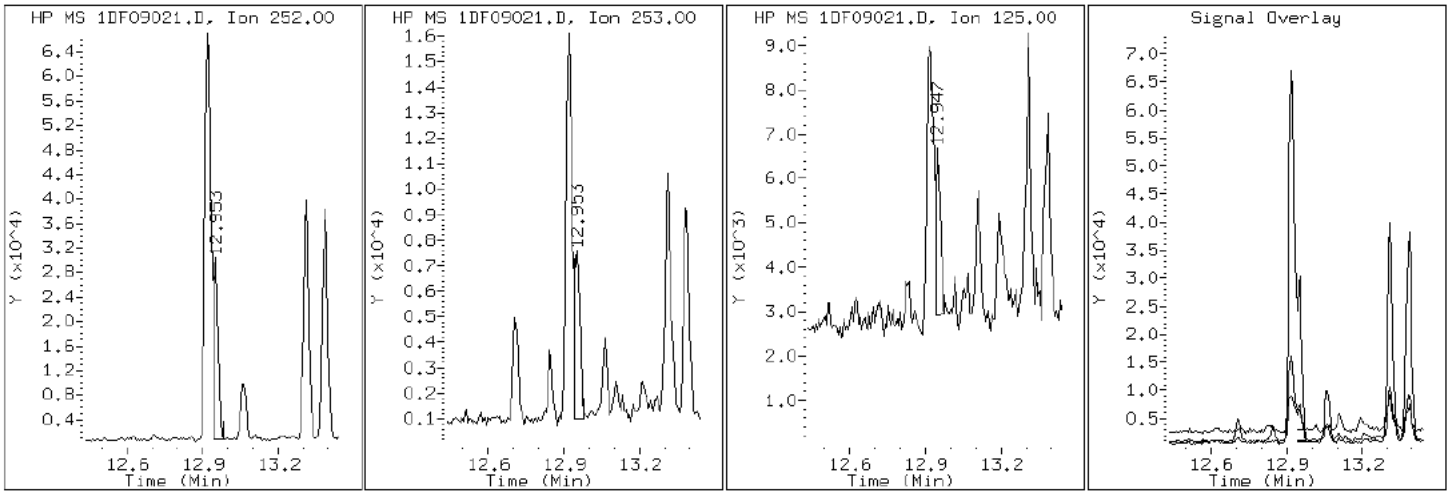
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

22 Benzo(k)fluoranthene



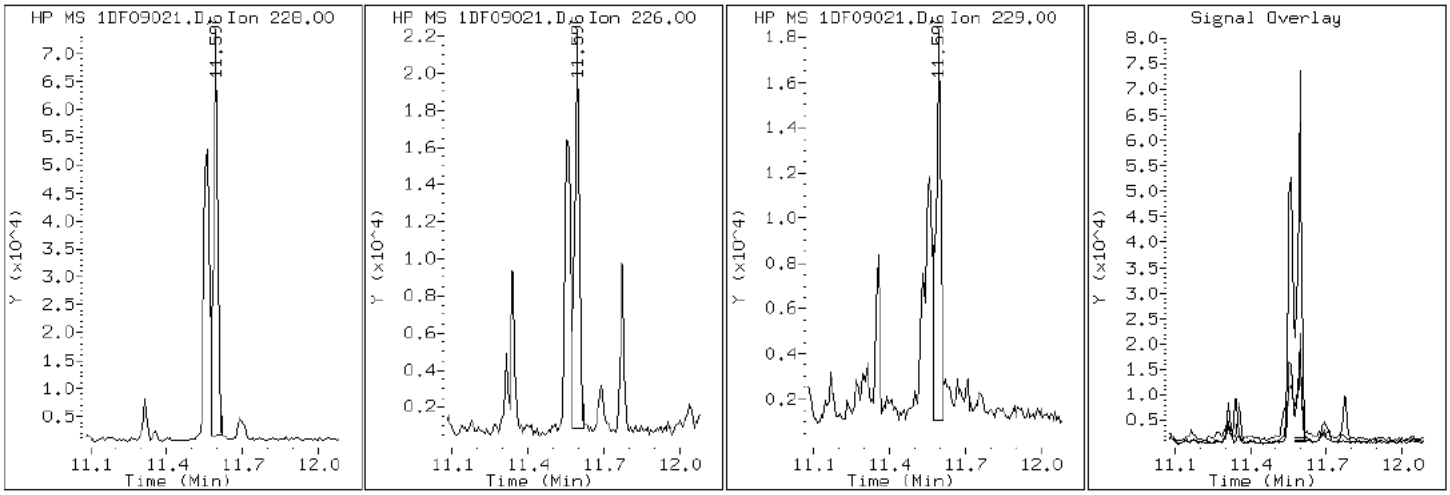
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

20 Chrysene



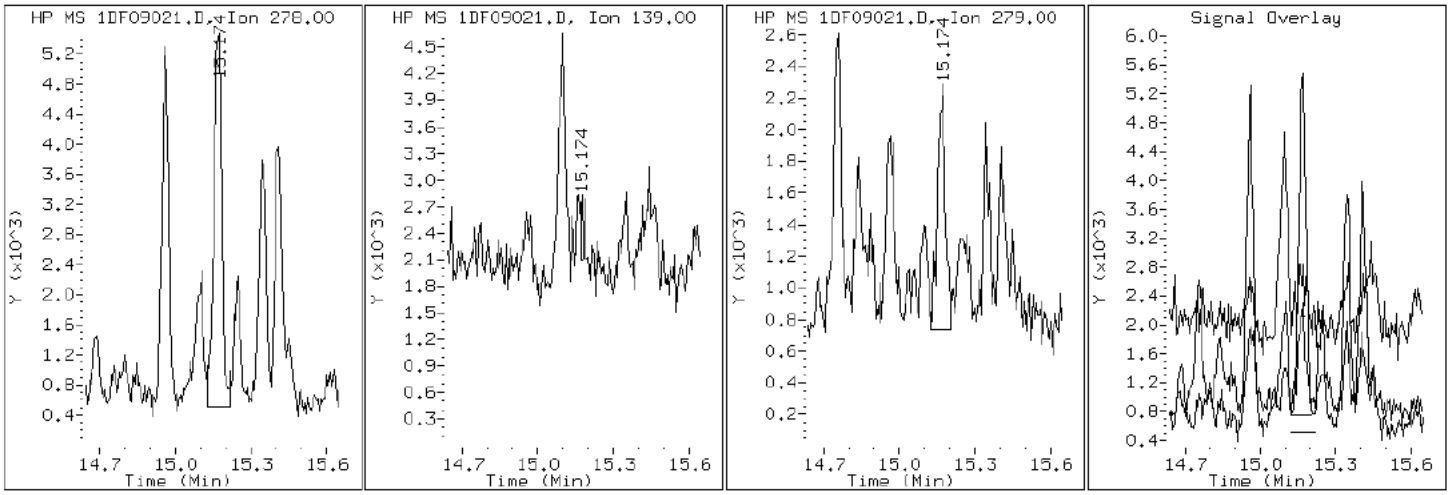
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

26 Dibenzo(a,h)anthracene



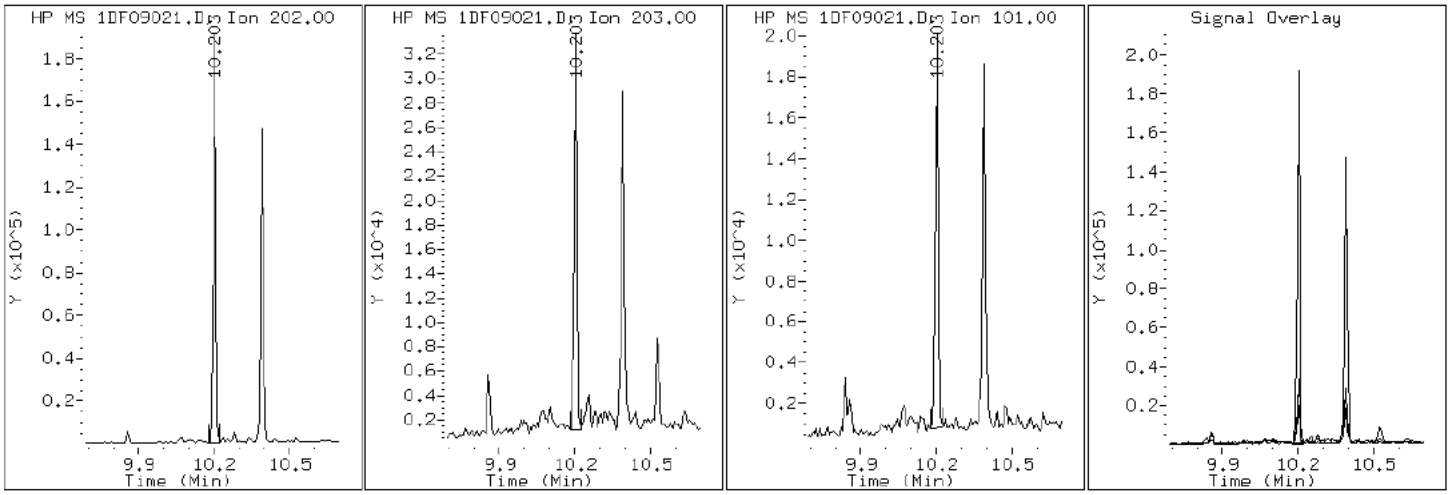
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

16 Fluoranthene



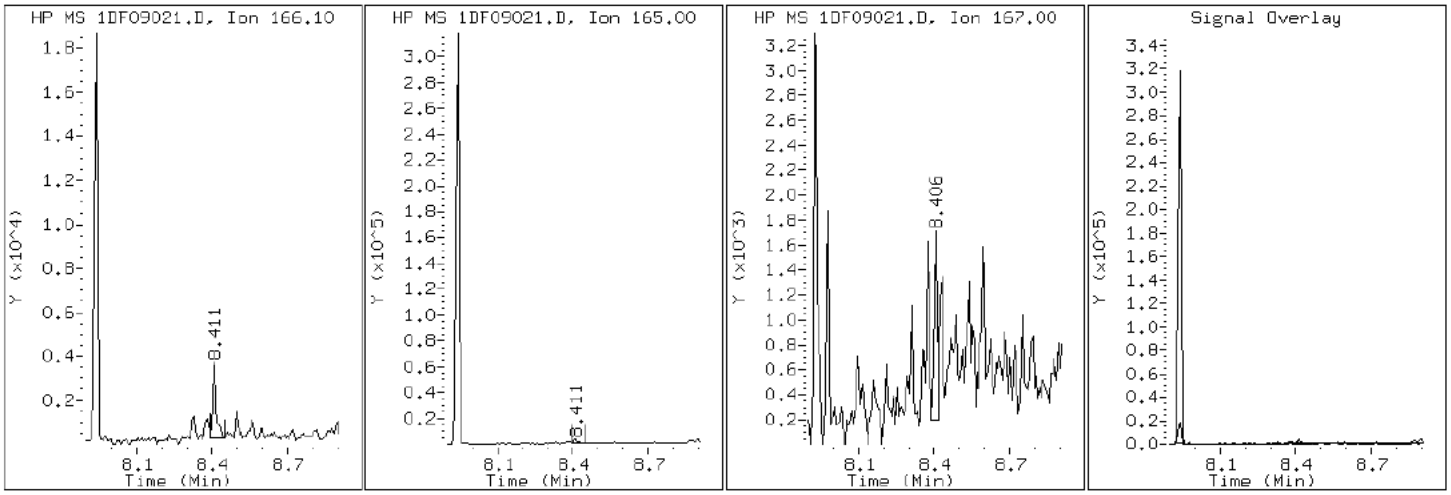
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

10 Fluorene



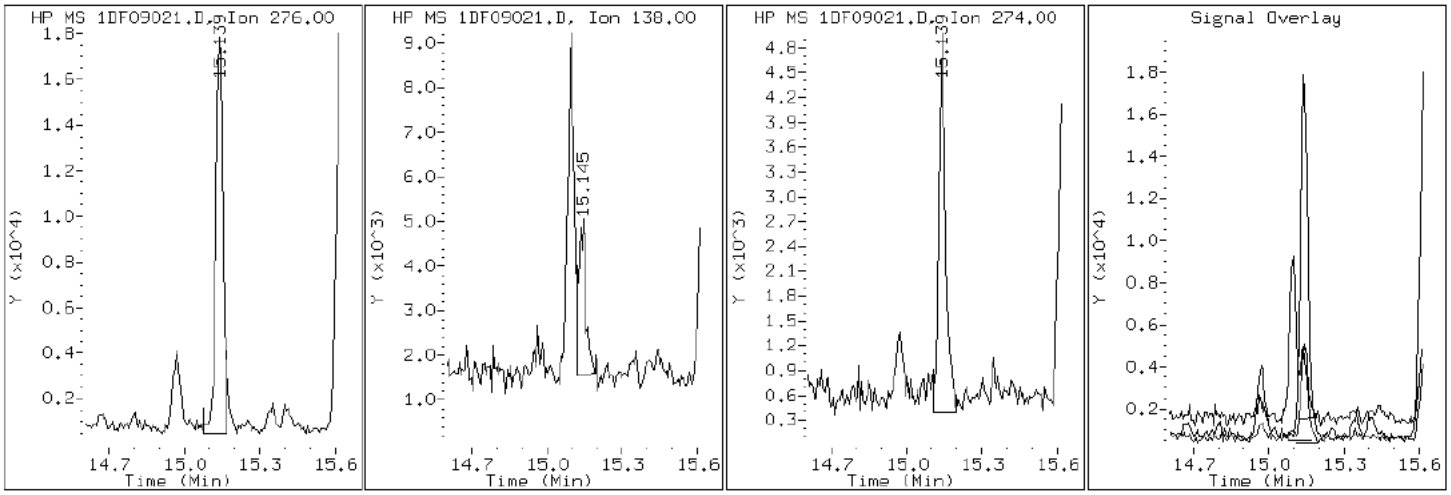
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

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



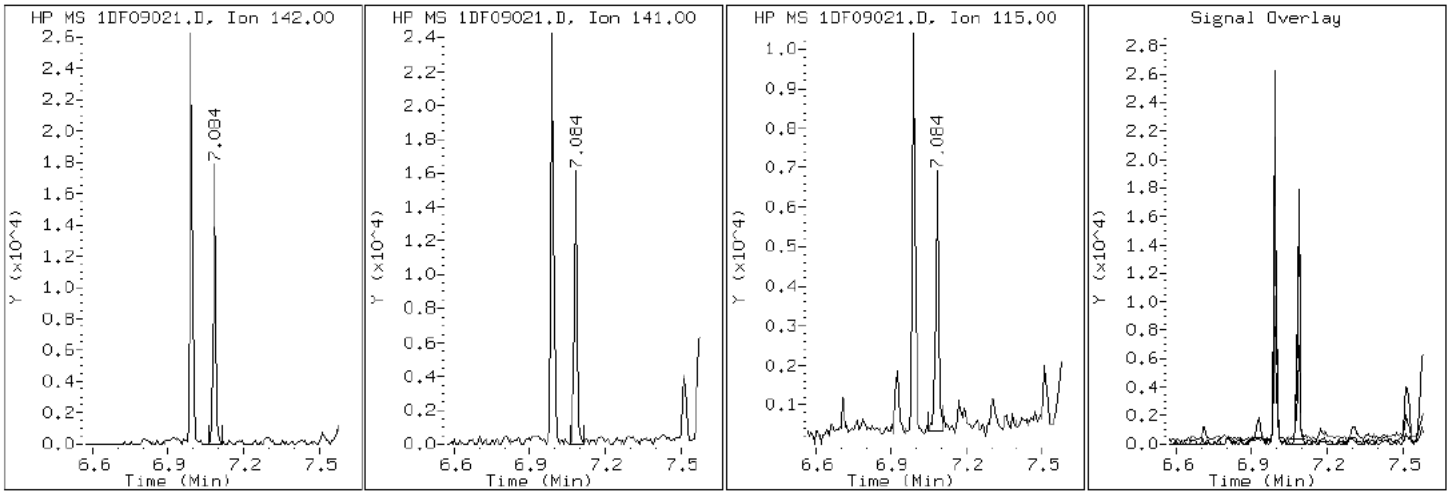
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

4 1-Methylnaphthalene



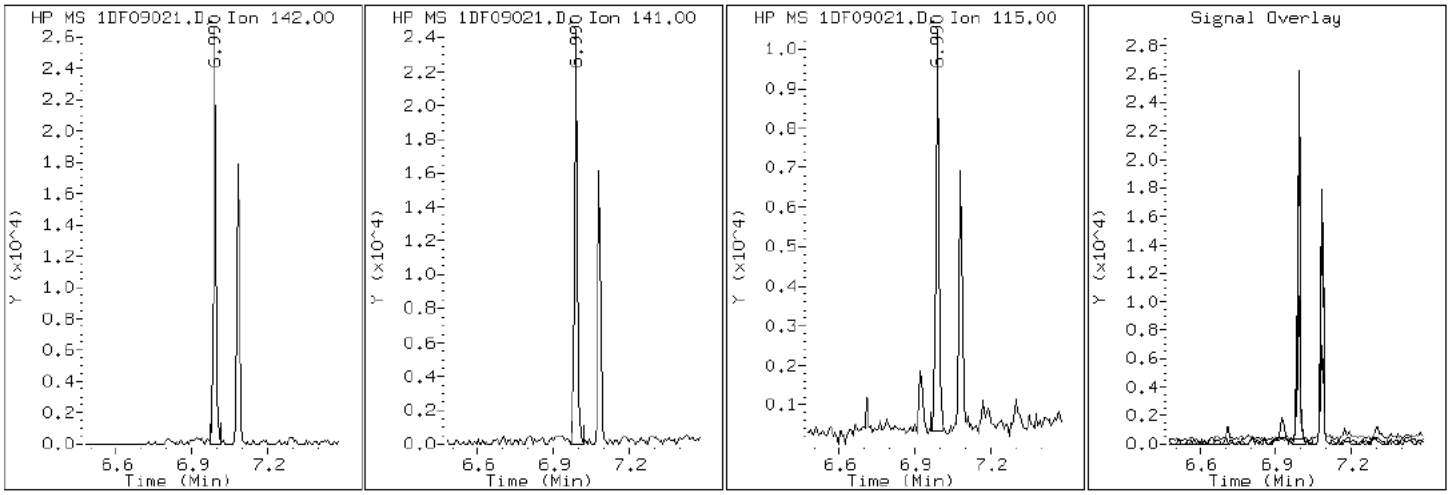
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

3 2-Methylnaphthalene



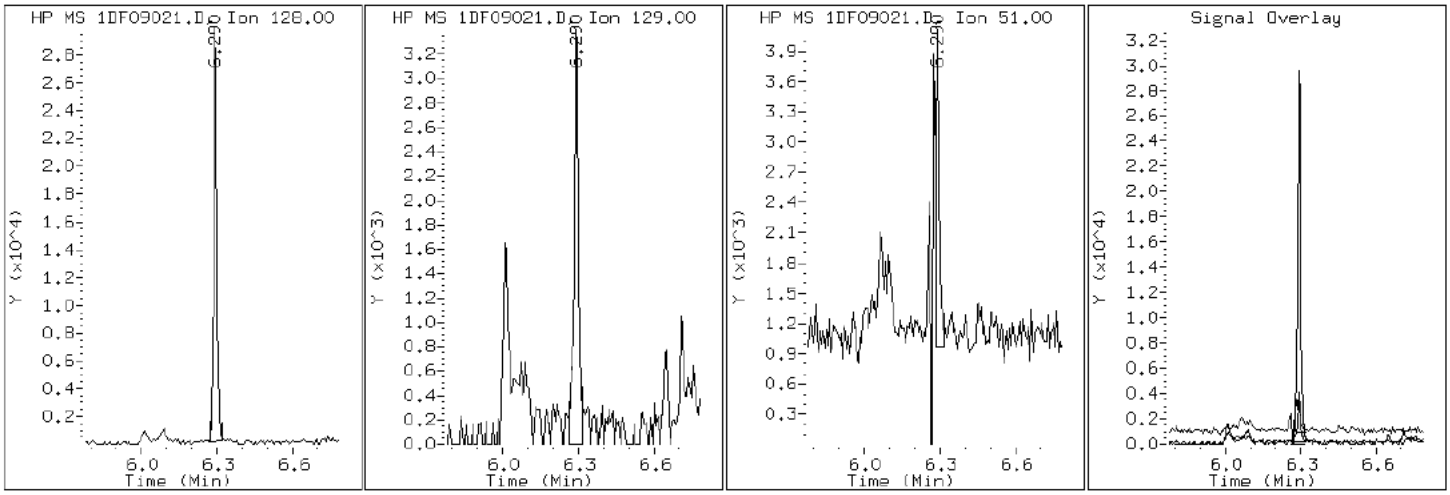
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

2 Naphthalene



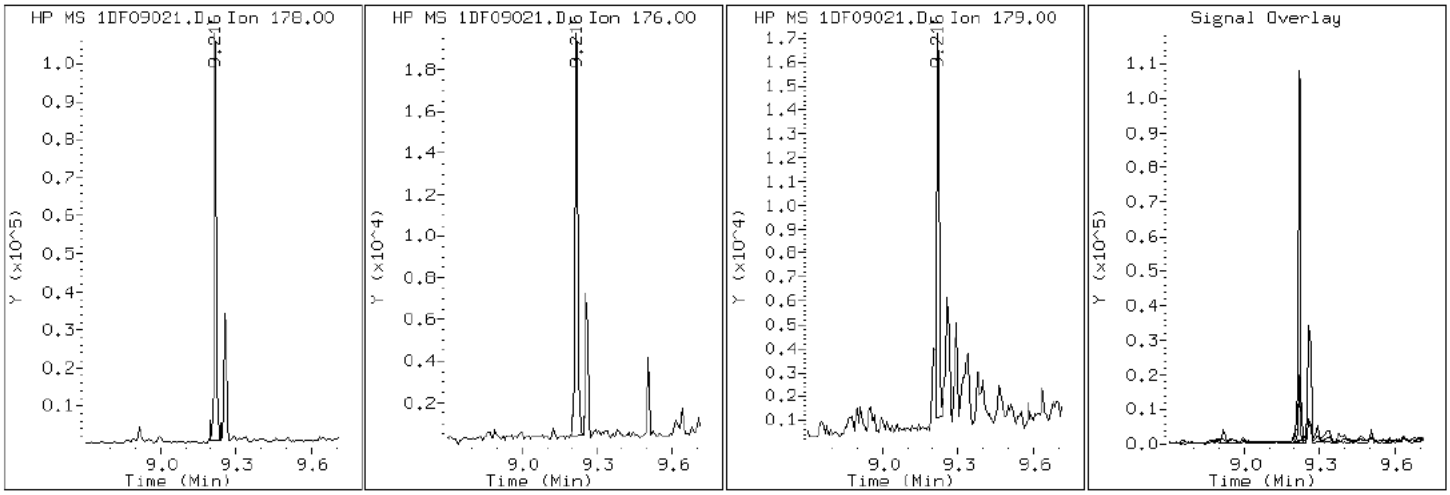
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

12 Phenanthrene



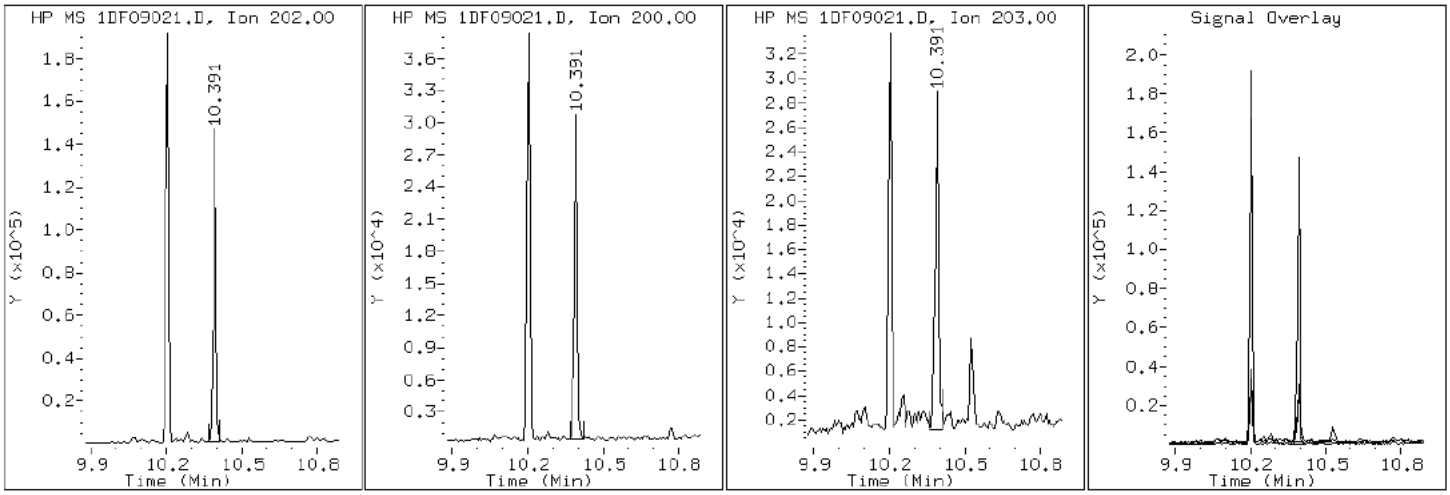
Data File: 1DF09021.D

Date: 09-JUN-2013 16:50

Client ID: HP0175A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-24-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09021.D
Inj. Date and Time: 09-JUN-2013 16:50
Instrument ID: BSMSD.i
Client ID: HP0175A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

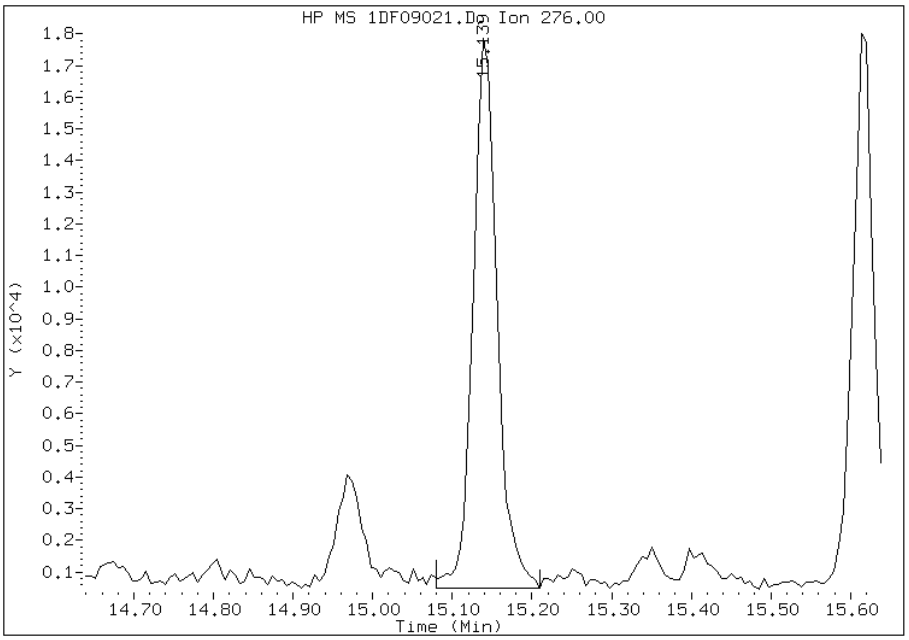
Processing Integration Results

RT: 15.14

Response: 36358

Amount: 1

Conc: 217



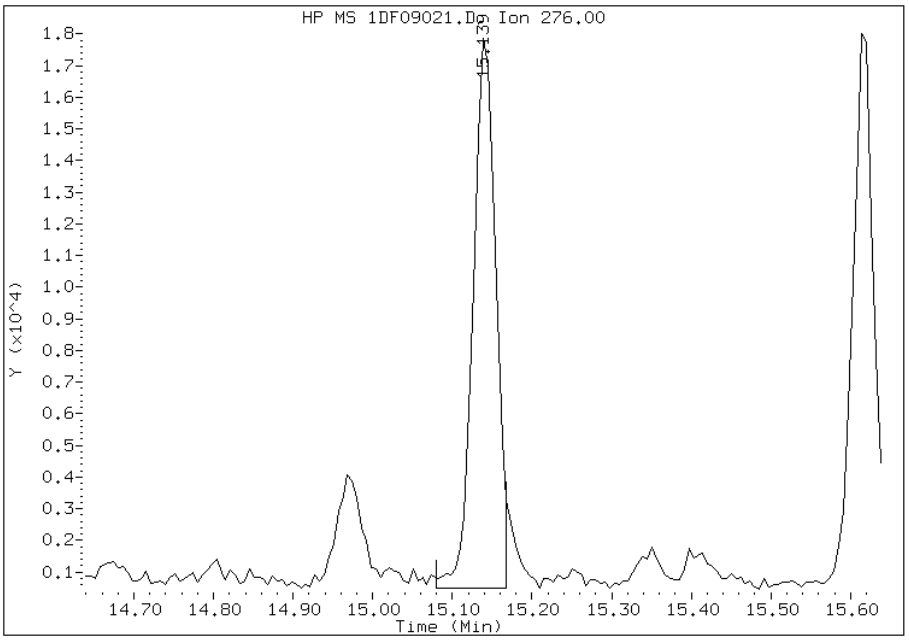
Manual Integration Results

RT: 15.14

Response: 34430

Amount: 1

Conc: 208



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 12:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0175B-CS-SP | Lab Sample ID: 680-90852-25

Matrix: Solid | Lab File ID: 1DF09022.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 10:48

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.45(g) | Date Analyzed: 06/09/2013 17:13

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	95
208-96-8	Acenaphthylene	27	J	190	24
120-12-7	Anthracene	70		40	20
56-55-3	Benzo[a]anthracene	420		38	18
50-32-8	Benzo[a]pyrene	590		49	25
205-99-2	Benzo[b]fluoranthene	1200		58	29
191-24-2	Benzo[g,h,i]perylene	410		95	21
207-08-9	Benzo[k]fluoranthene	380		38	17
218-01-9	Chrysene	640		43	21
53-70-3	Dibenz(a,h)anthracene	170		95	19
206-44-0	Fluoranthene	540		95	19
86-73-7	Fluorene	25	J	95	19
193-39-5	Indeno[1,2,3-cd]pyrene	410		95	34
90-12-0	1-Methylnaphthalene	160	J	190	21
91-57-6	2-Methylnaphthalene	220		190	34
91-20-3	Naphthalene	240		190	21
85-01-8	Phenanthrene	440		38	18
129-00-0	Pyrene	450		95	18

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\1D060913.b\1DF09022.D
Lab Smp Id: 680-90852-A-25-A Client Smp ID: HP0175B-CS-SP
Inj Date : 09-JUN-2013 17:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-25-a
Misc Info : 680-90852-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 21
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	15.450	Weight Extracted
M	18.070	% 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	6.274	6.263	(1.000)	3116935	40.0000	
*	7 Acenaphthene-d10	164	7.943	7.932	(1.000)	1788293	40.0000	
*	11 Phenanthrene-d10	188	9.200	9.189	(1.000)	2839920	40.0000	
$	15 o-Terphenyl	230	9.505	9.500	(1.033)	74488	1.79034	560
*	19 Chrysene-d12	240	11.574	11.557	(1.000)	2707935	40.0000	
*	24 Perylene-d12	264	13.495	13.460	(1.000)	2416169	40.0000	
	2 Naphthalene	128	6.292	6.281	(1.003)	59462	0.77359	240
	3 2-Methylnaphthalene	142	6.991	6.980	(1.114)	34301	0.70086	220
	4 1-Methylnaphthalene	142	7.085	7.074	(1.129)	24854	0.49328	160
	6 Acenaphthylene	152	7.813	7.802	(0.984)	6382	0.08607	27
	10 Fluorene	166	8.407	8.402	(1.058)	4291	0.08063	25
	12 Phenanthrene	178	9.218	9.207	(1.002)	106382	1.38312	440
	13 Anthracene	178	9.259	9.248	(1.006)	16512	0.22126	70
	16 Fluoranthene	202	10.205	10.194	(1.109)	133309	1.69418	540

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.393	10.382	(0.898)	113365	1.42990	450
18 Benzo(a)anthracene	228	11.556	11.539	(0.998)	106688	1.32753	420
20 Chrysene	228	11.597	11.580	(1.002)	146582	2.02552	640
21 Benzo(b)fluoranthene	252	12.919	12.896	(0.957)	226096	3.73525	1200
22 Benzo(k)fluoranthene	252	12.954	12.938	(0.960)	76021	1.19931	380
23 Benzo(a)pyrene	252	13.389	13.361	(0.992)	106253	1.87158	590
25 Indeno(1,2,3-cd)pyrene	276	15.146	15.111	(1.122)	72301	1.29927	410(M)
26 Dibenzo(a,h)anthracene	278	15.175	15.147	(1.125)	27087	0.54104	170
27 Benzo(g,h,i)perylene	276	15.622	15.587	(1.158)	70479	1.28465	400

QC Flag Legend

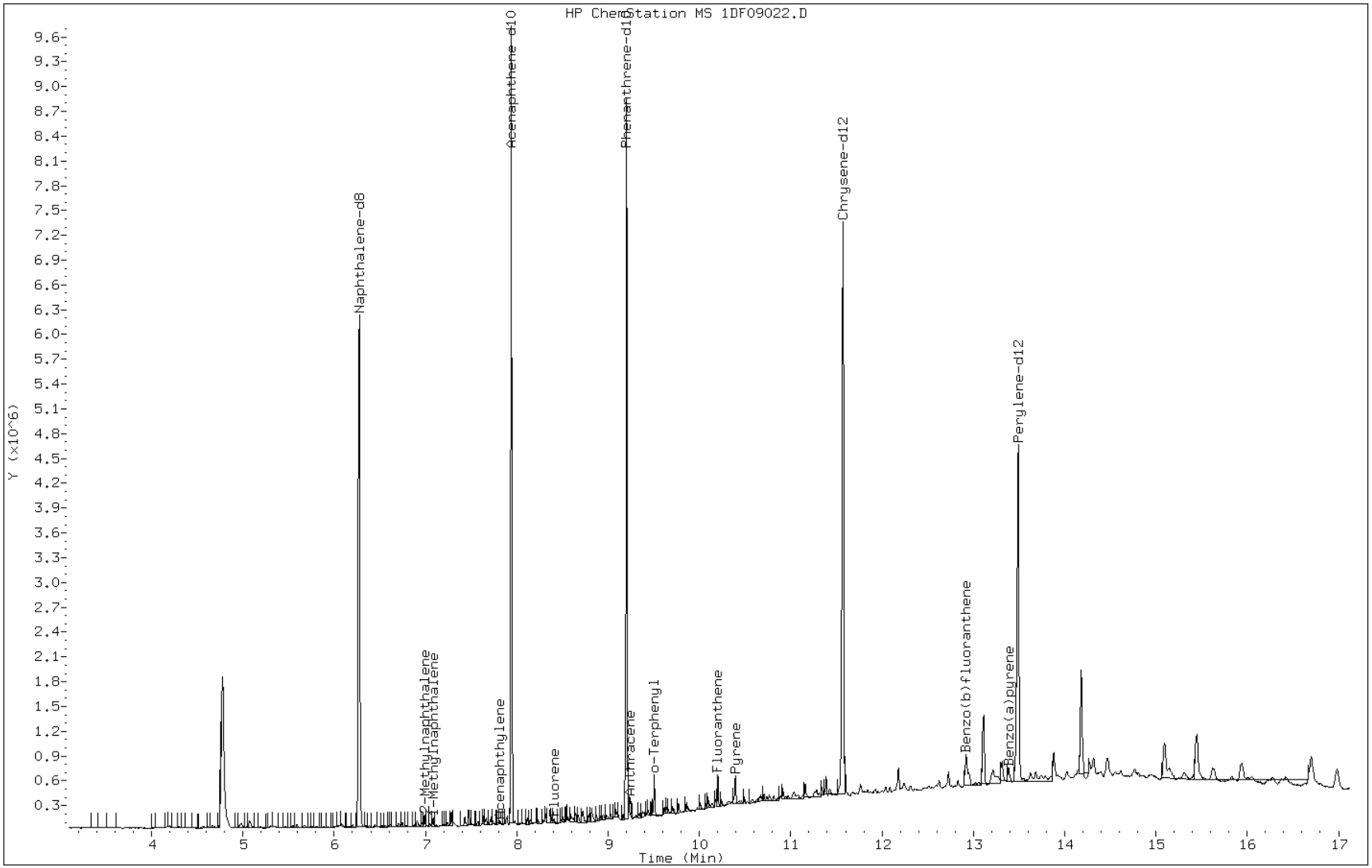
M - Compound response manually integrated.

Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC



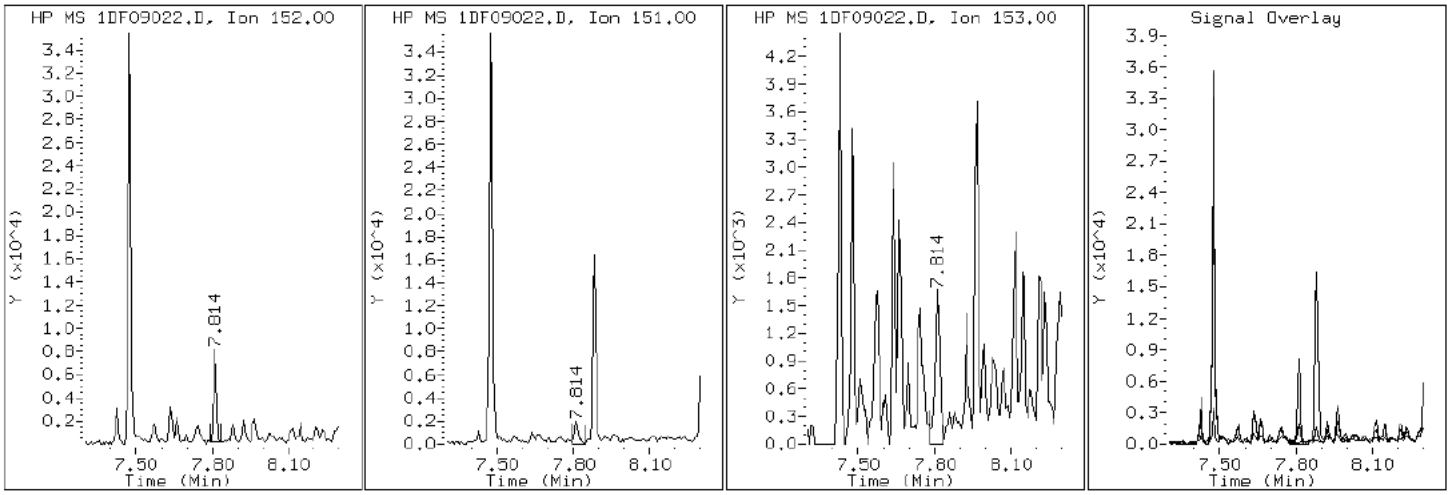
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

6 Acenaphthylene



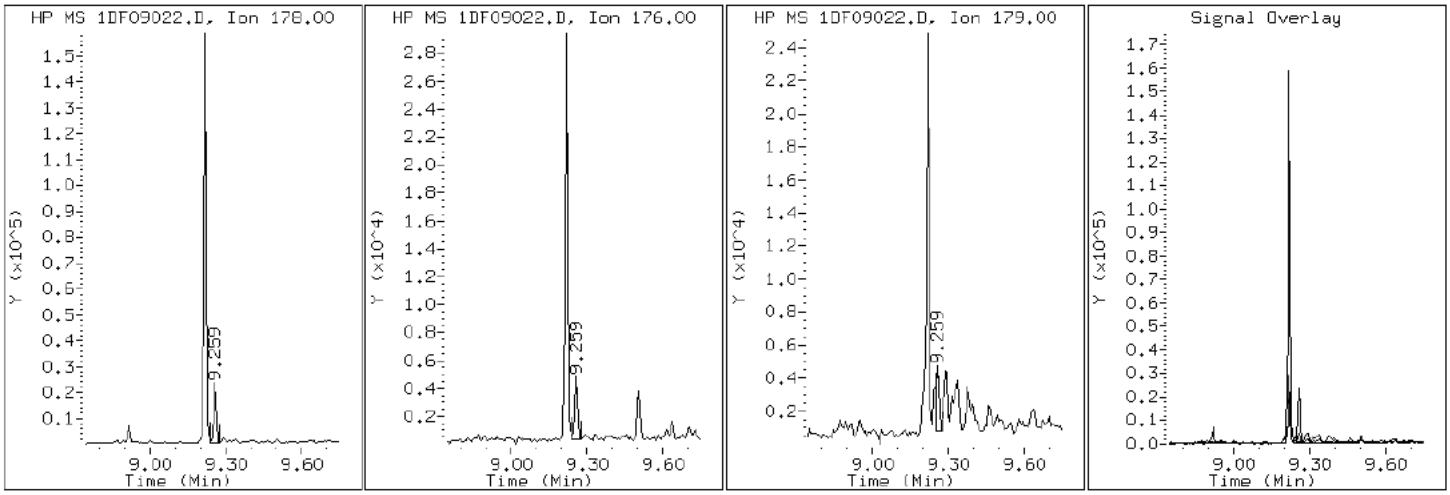
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

13 Anthracene



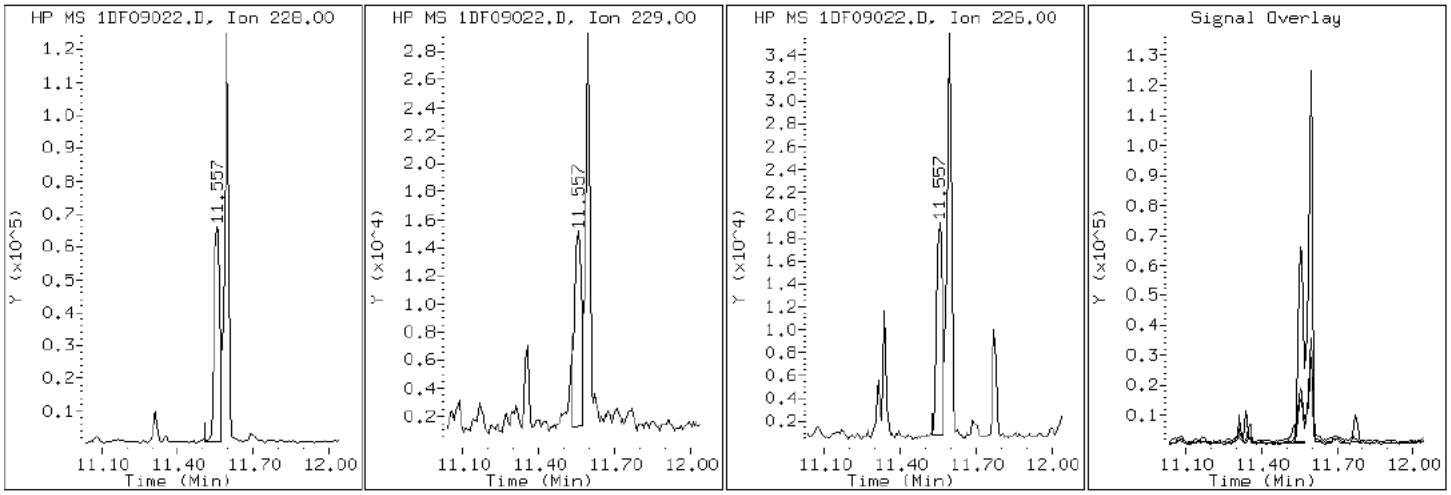
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

18 Benzo(a)anthracene



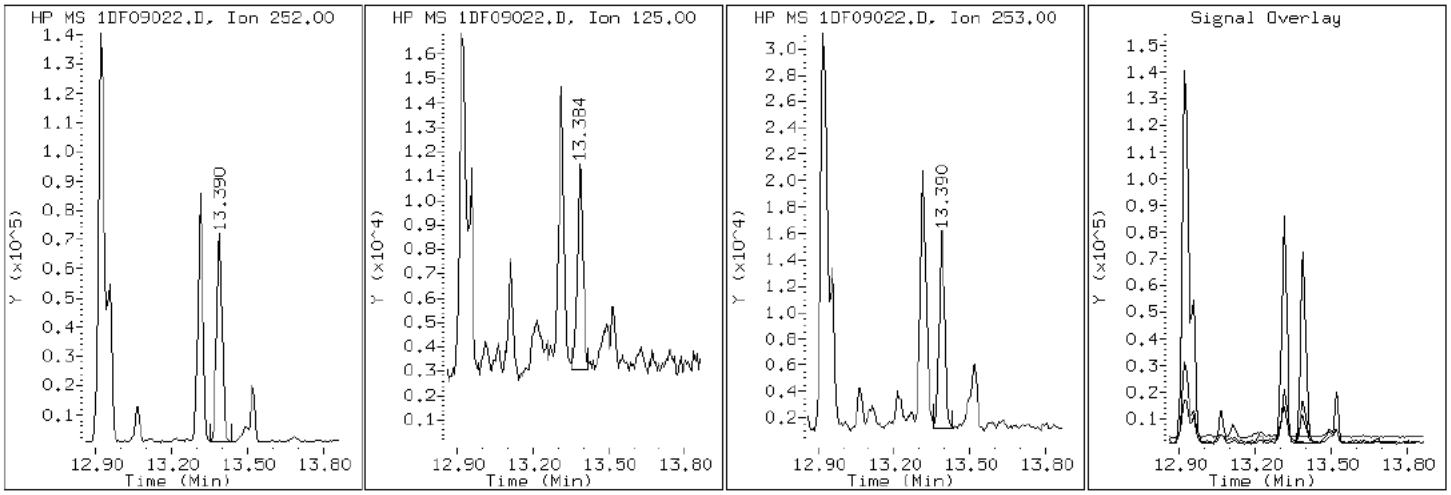
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

23 Benzo(a)pyrene



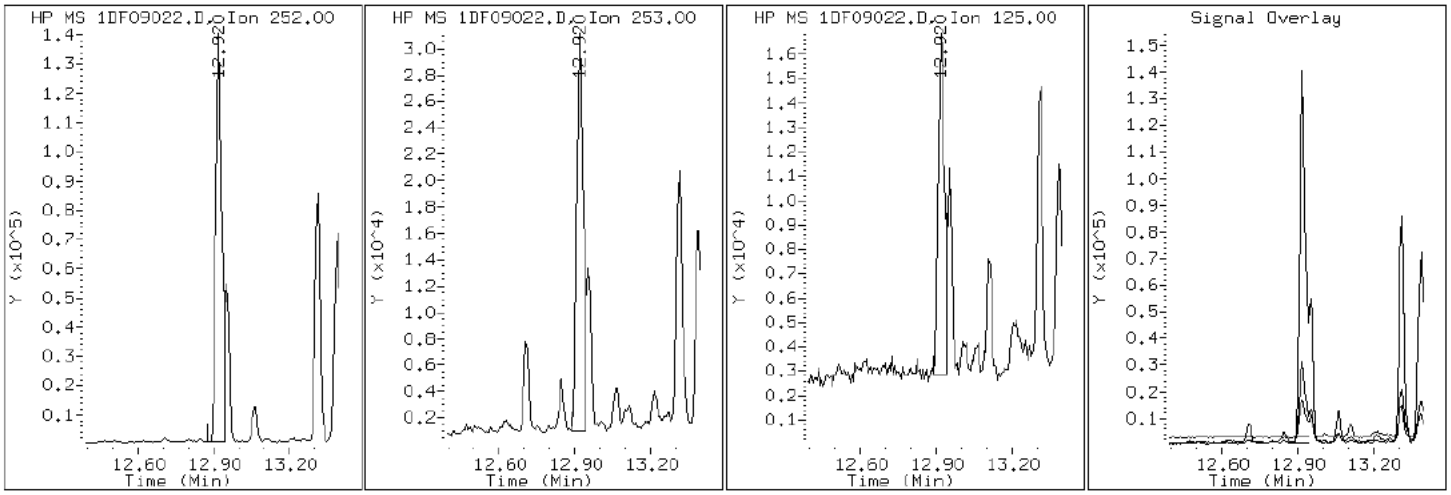
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

21 Benzo(b)fluoranthene



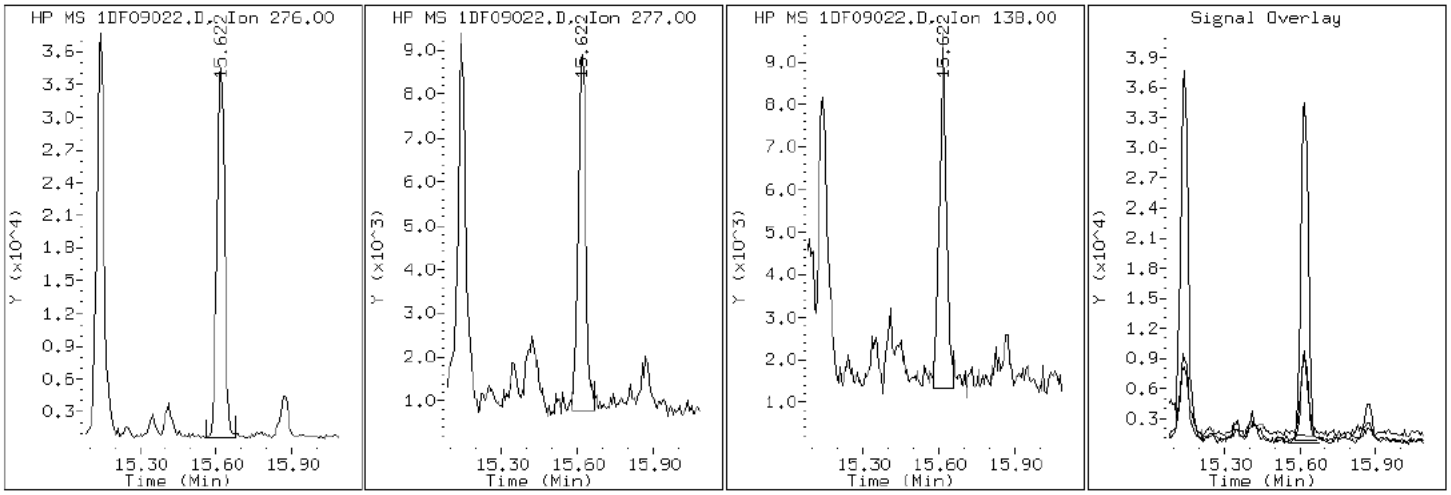
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

27 Benzo(g,h,i)perylene



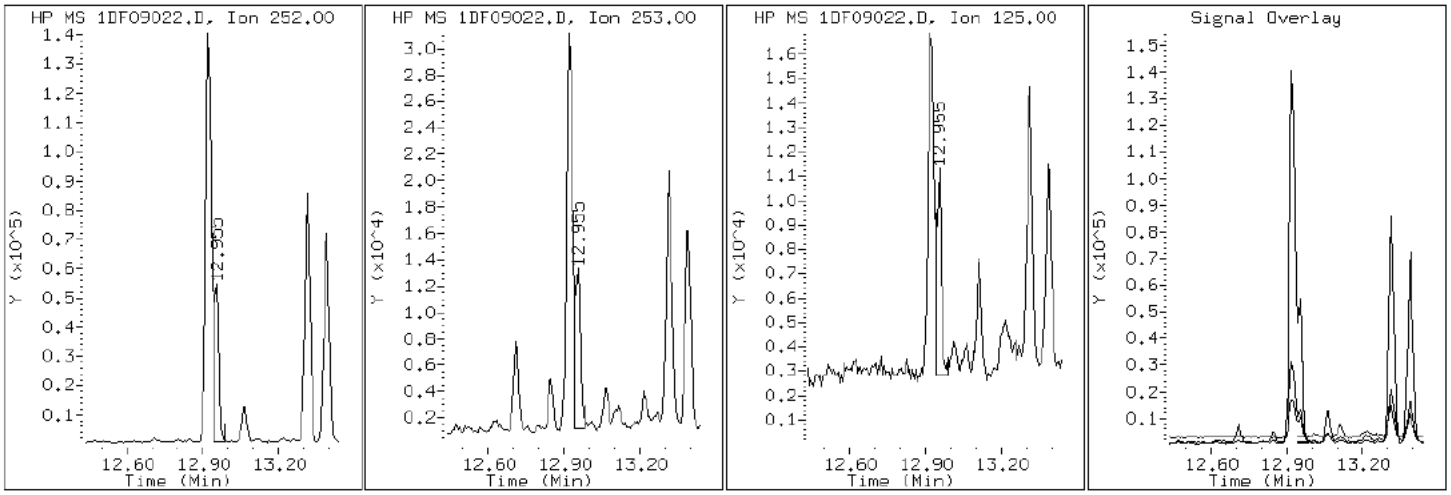
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

22 Benzo(k)fluoranthene



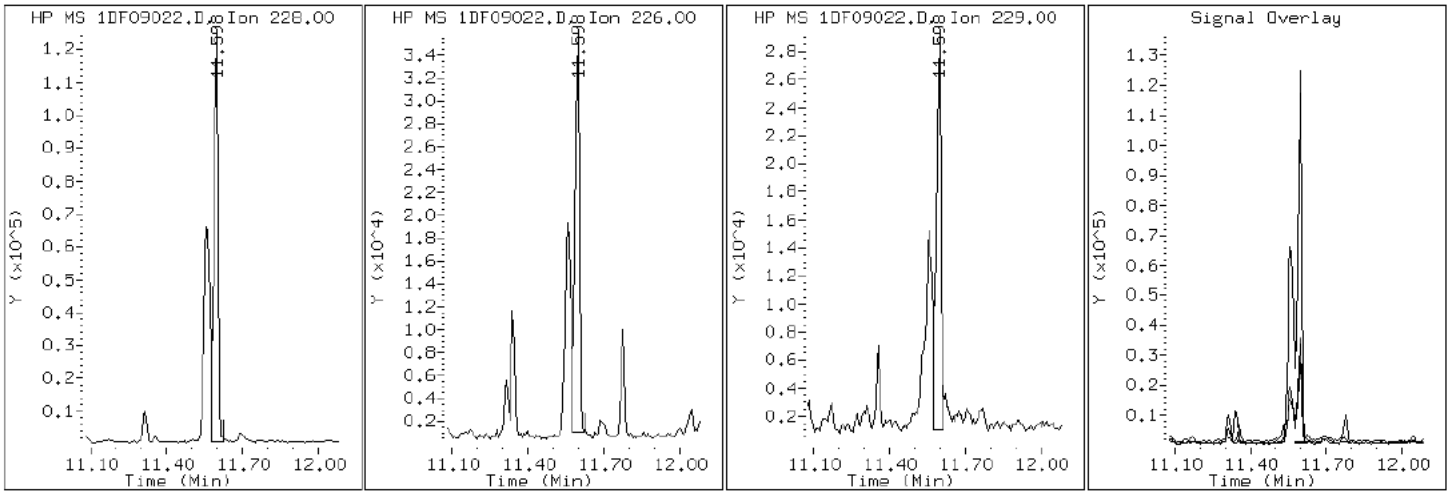
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

20 Chrysene



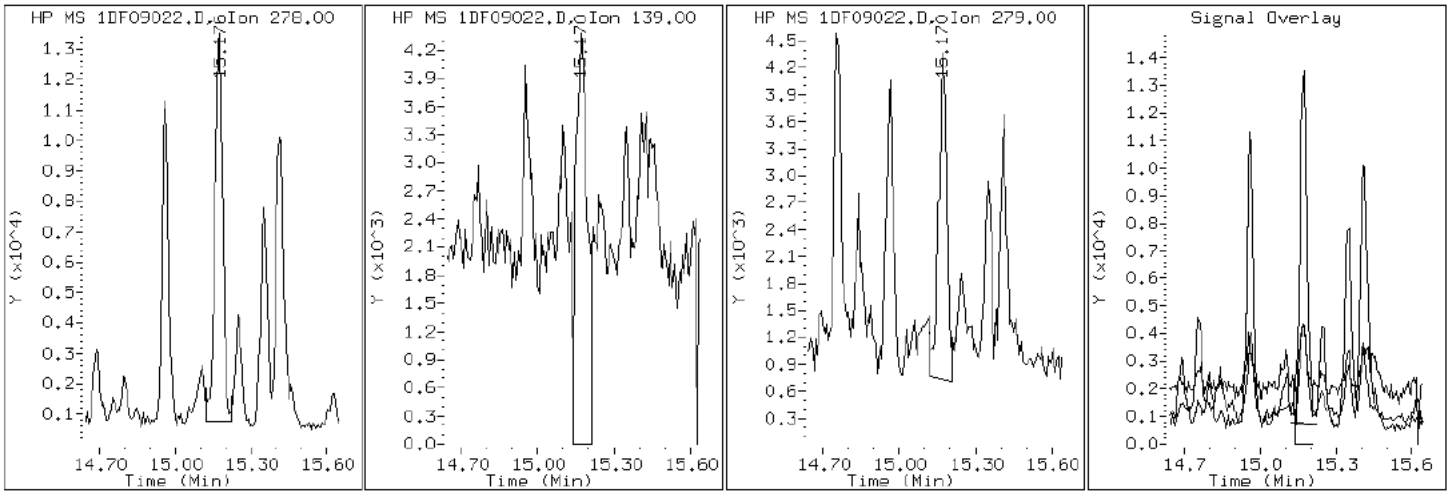
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

26 Dibenzo(a,h)anthracene



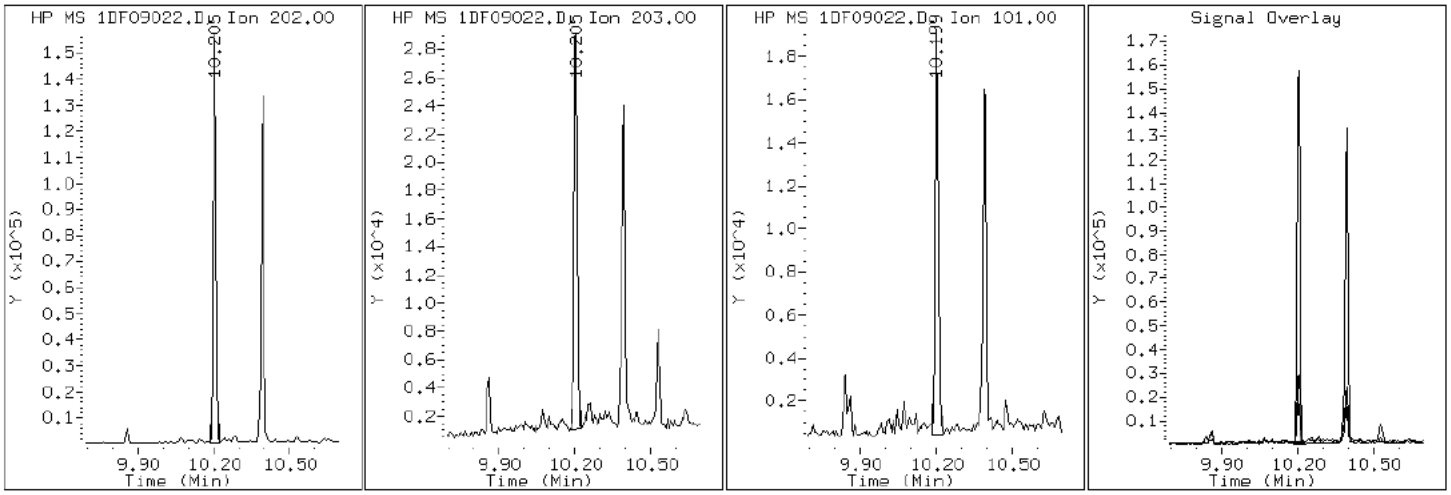
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

16 Fluoranthene



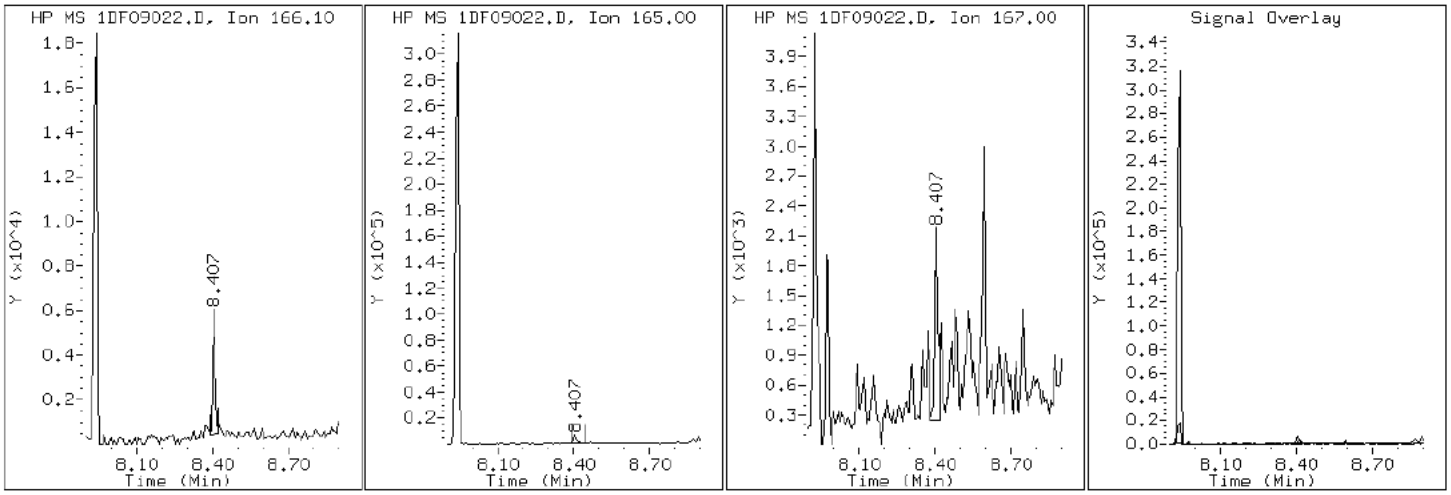
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

10 Fluorene



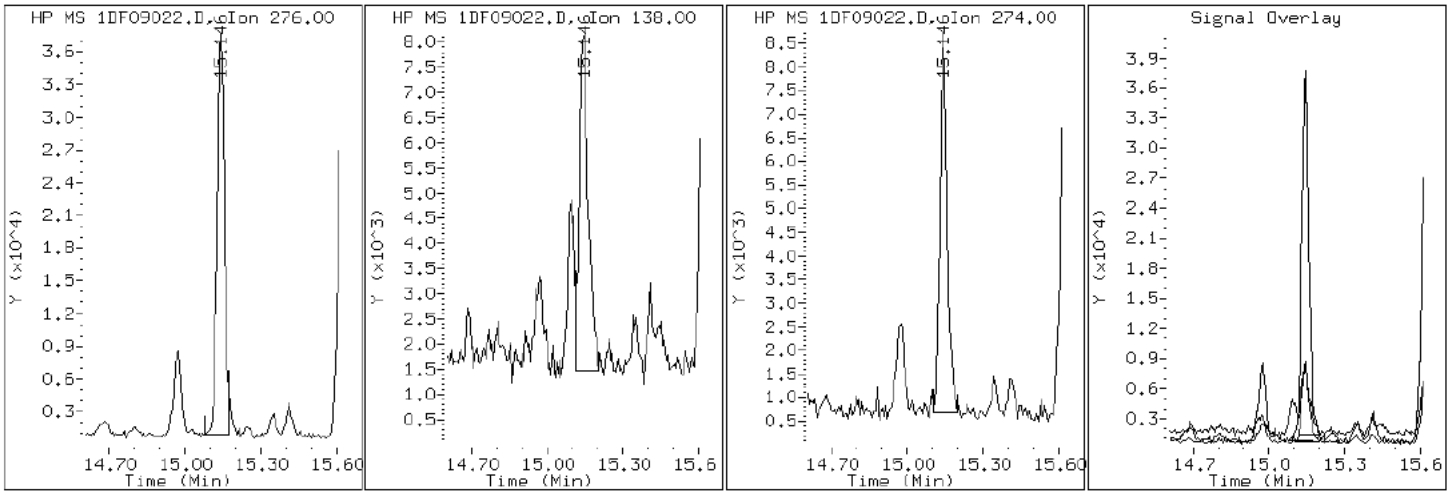
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

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



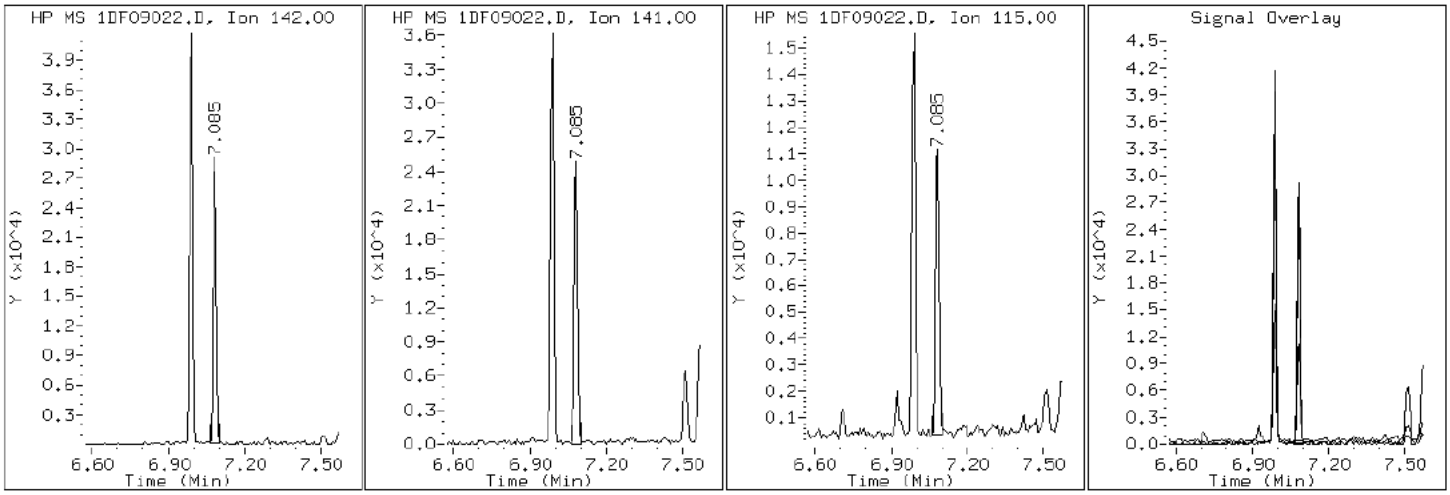
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

4 1-Methylnaphthalene



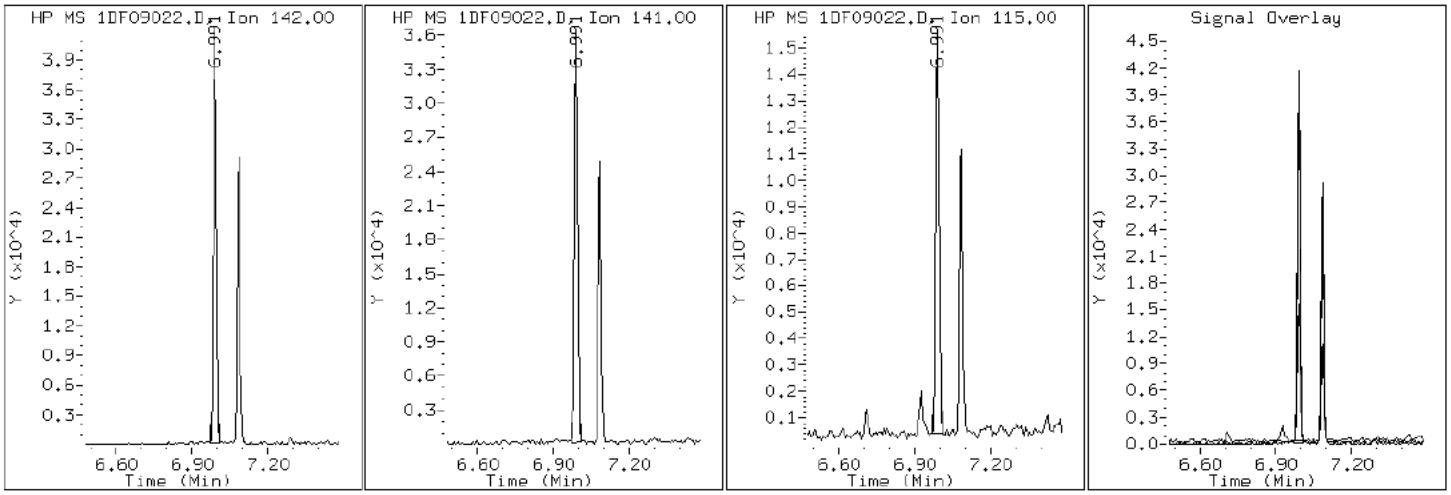
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

3 2-Methylnaphthalene



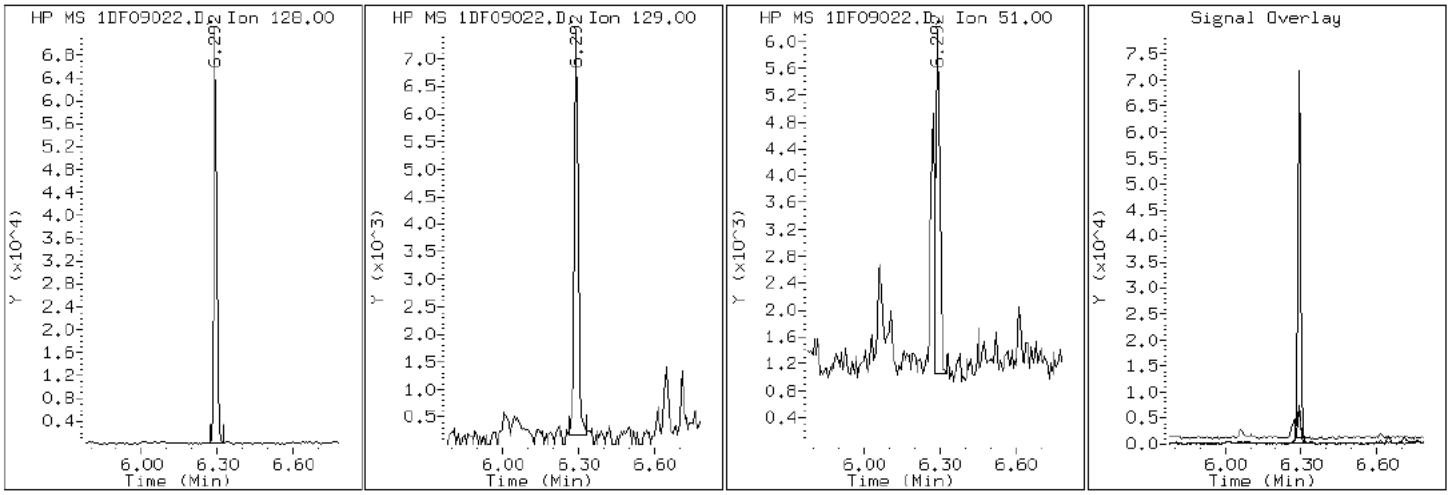
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

2 Naphthalene



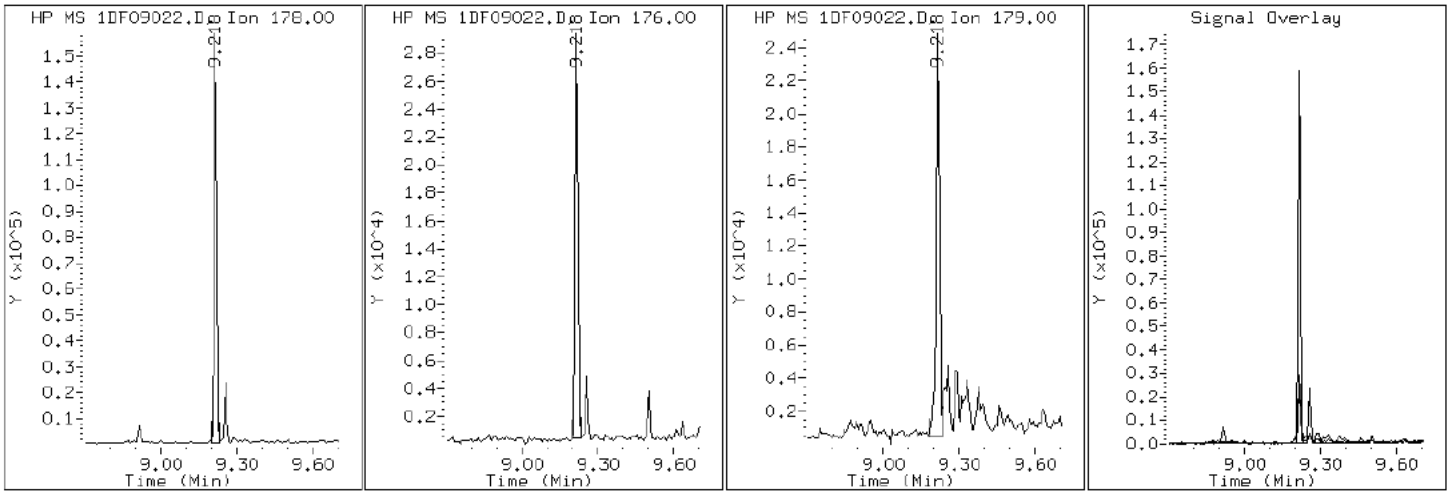
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

12 Phenanthrene



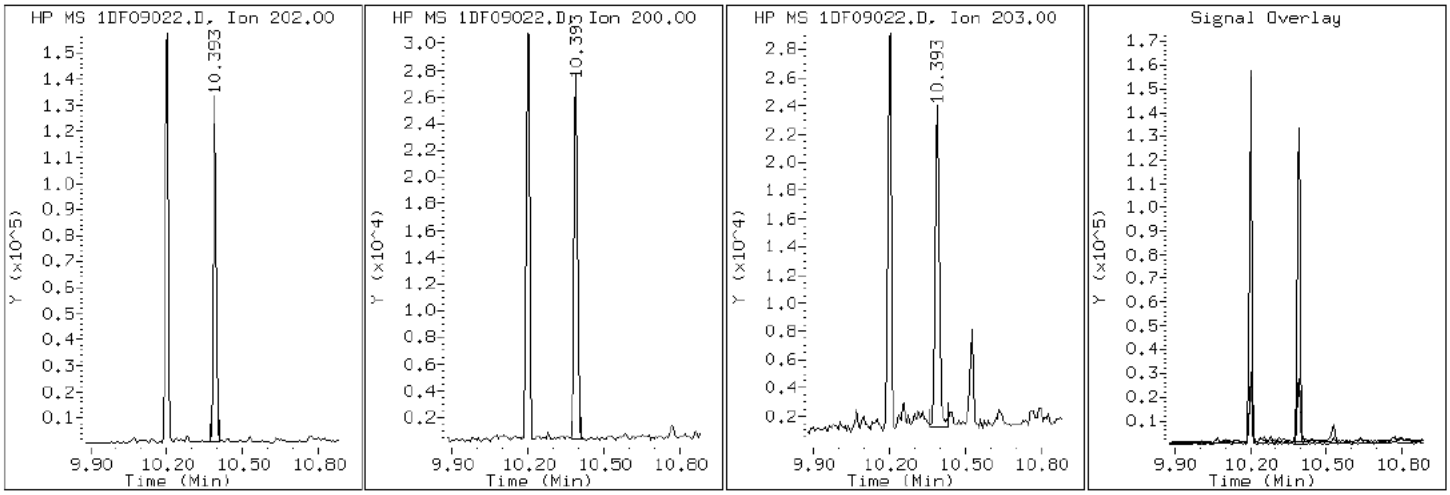
Data File: 1DF09022.D

Date: 09-JUN-2013 17:13

Client ID: HP0175B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-25-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09022.D
Inj. Date and Time: 09-JUN-2013 17:13
Instrument ID: BSMSD.i
Client ID: HP0175B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

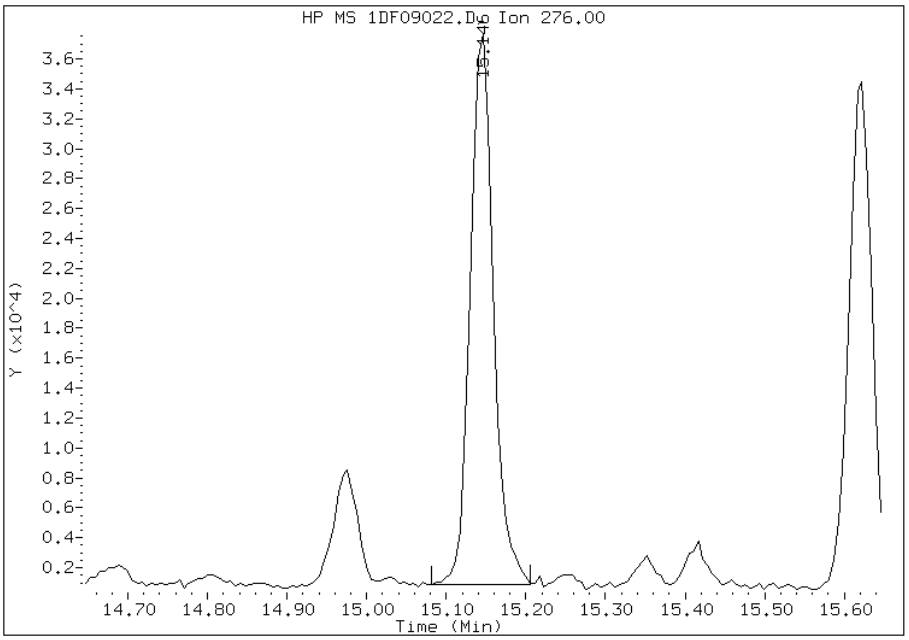
Processing Integration Results

RT: 15.15

Response: 74507

Amount: 1

Conc: 422



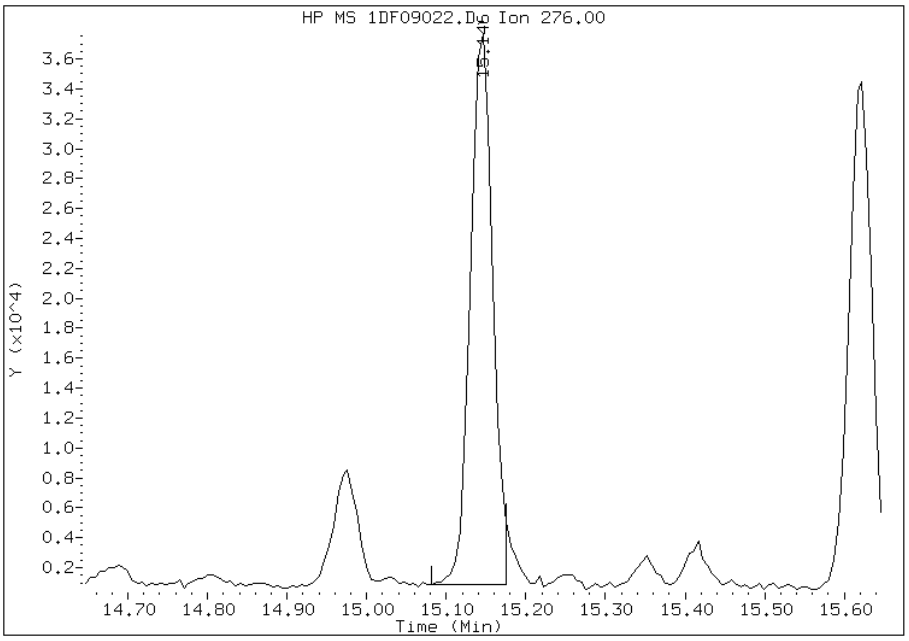
Manual Integration Results

RT: 15.15

Response: 72301

Amount: 1

Conc: 411



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 12:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0175C-CS-SP | Lab Sample ID: 680-90852-26

Matrix: Solid | Lab File ID: 1DF09023.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 11:00

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.32(g) | Date Analyzed: 06/09/2013 17:35

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

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

% Moisture: 15.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	27	J	46	5.8
120-12-7	Anthracene	44		9.7	4.9
56-55-3	Benzo[a]anthracene	150		9.3	4.5
50-32-8	Benzo[a]pyrene	180		12	6.0
205-99-2	Benzo[b]fluoranthene	350		14	7.1
191-24-2	Benzo[g,h,i]perylene	110		23	5.1
207-08-9	Benzo[k]fluoranthene	95		9.3	4.2
218-01-9	Chrysene	230		10	5.2
53-70-3	Dibenz(a,h)anthracene	43		23	4.8
206-44-0	Fluoranthene	260		23	4.6
86-73-7	Fluorene	14	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		23	8.2
90-12-0	1-Methylnaphthalene	95		46	5.1
91-57-6	2-Methylnaphthalene	150		46	8.2
91-20-3	Naphthalene	130		46	5.1
85-01-8	Phenanthrene	220		9.3	4.5
129-00-0	Pyrene	200		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09023.D
Lab Smp Id: 680-90852-A-26-A Client Smp ID: HP0175C-CS-SP
Inj Date : 09-JUN-2013 17:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-26-a
Misc Info : 680-90852-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 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	15.320	Weight Extracted
M	15.632	% 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	6.271	6.263	(1.000)	3286582	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.932	(1.000)	1899230	40.0000	
* 11 Phenanthrene-d10	188	9.203	9.189	(1.000)	3027091	40.0000	
$ 15 o-Terphenyl	230	9.503	9.500	(1.033)	214208	4.83019	370
* 19 Chrysene-d12	240	11.577	11.557	(1.000)	3023281	40.0000	
* 24 Perylene-d12	264	13.498	13.460	(1.000)	2585459	40.0000	(H)
2 Naphthalene	128	6.295	6.281	(1.004)	133062	1.64175	130
3 2-Methylnaphthalene	142	6.988	6.980	(1.114)	98472	1.90819	150
4 1-Methylnaphthalene	142	7.082	7.074	(1.129)	65455	1.23205	95
6 Acenaphthylene	152	7.811	7.802	(0.984)	27549	0.34985	27
10 Fluorene	166	8.410	8.402	(1.059)	10071	0.17818	14
12 Phenanthrene	178	9.221	9.207	(1.002)	229449	2.79872	220
13 Anthracene	178	9.262	9.248	(1.006)	45525	0.57231	44
16 Fluoranthene	202	10.202	10.194	(1.109)	279271	3.32972	260

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.390	10.382	(0.897)	226358	2.55730	200
18 Benzo(a)anthracene	228	11.565	11.539	(0.999)	177013	1.97285	150
20 Chrysene	228	11.600	11.580	(1.002)	241193	2.98524	230
21 Benzo(b)fluoranthene	252	12.928	12.896	(0.958)	294521	4.54708	350(H)
22 Benzo(k)fluoranthene	252	12.957	12.938	(0.960)	83546	1.23172	95(H)
23 Benzo(a)pyrene	252	13.392	13.361	(0.992)	143735	2.34001	180(H)
25 Indeno(1,2,3-cd)pyrene	276	15.149	15.111	(1.122)	84036	1.39851	110(MH)
26 Dibenzo(a,h)anthracene	278	15.184	15.147	(1.125)	29889	0.55567	43(H)
27 Benzo(g,h,i)perylene	276	15.631	15.587	(1.158)	82789	1.41022	110(H)

QC Flag Legend

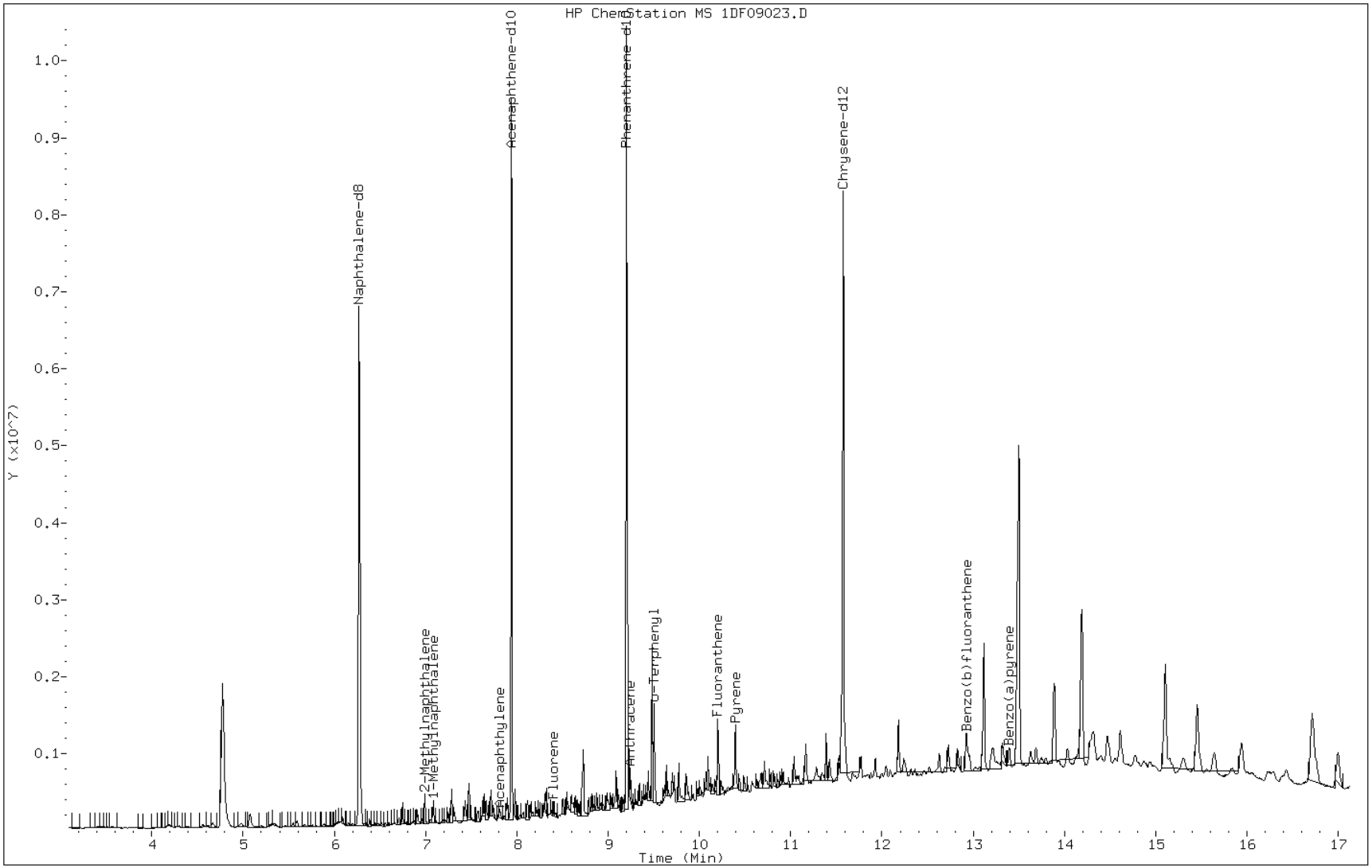
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC



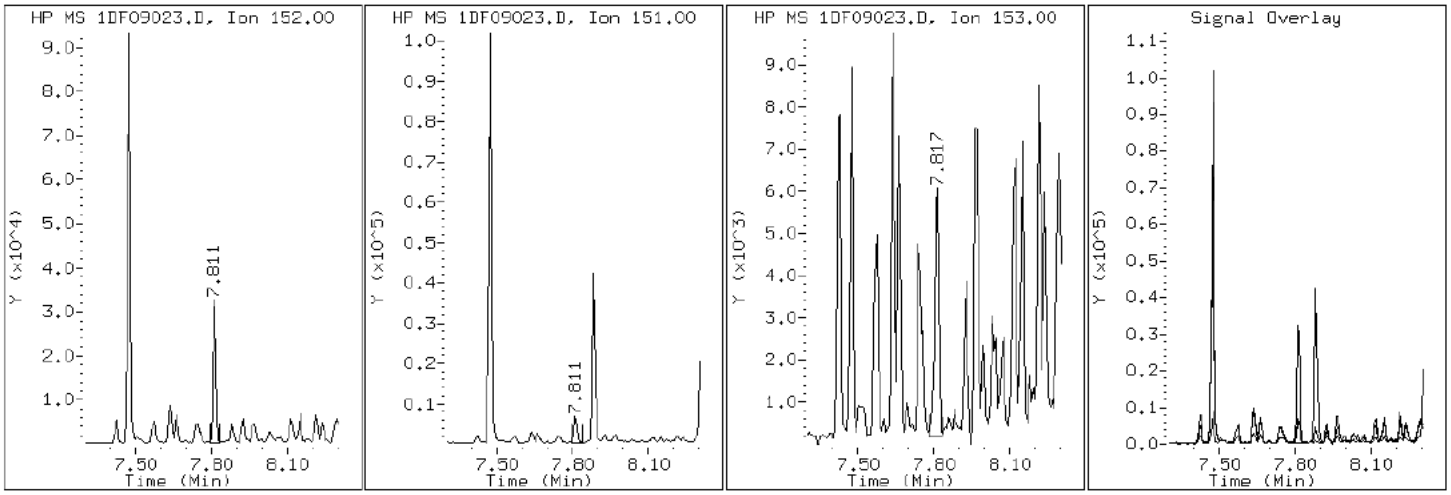
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

6 Acenaphthylene



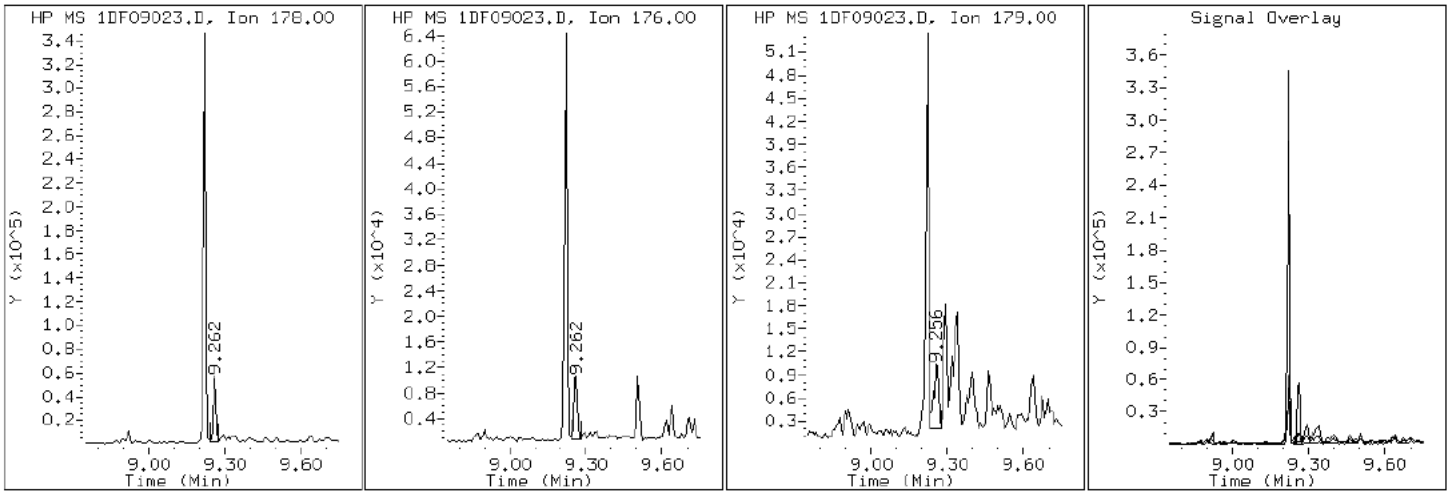
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

13 Anthracene



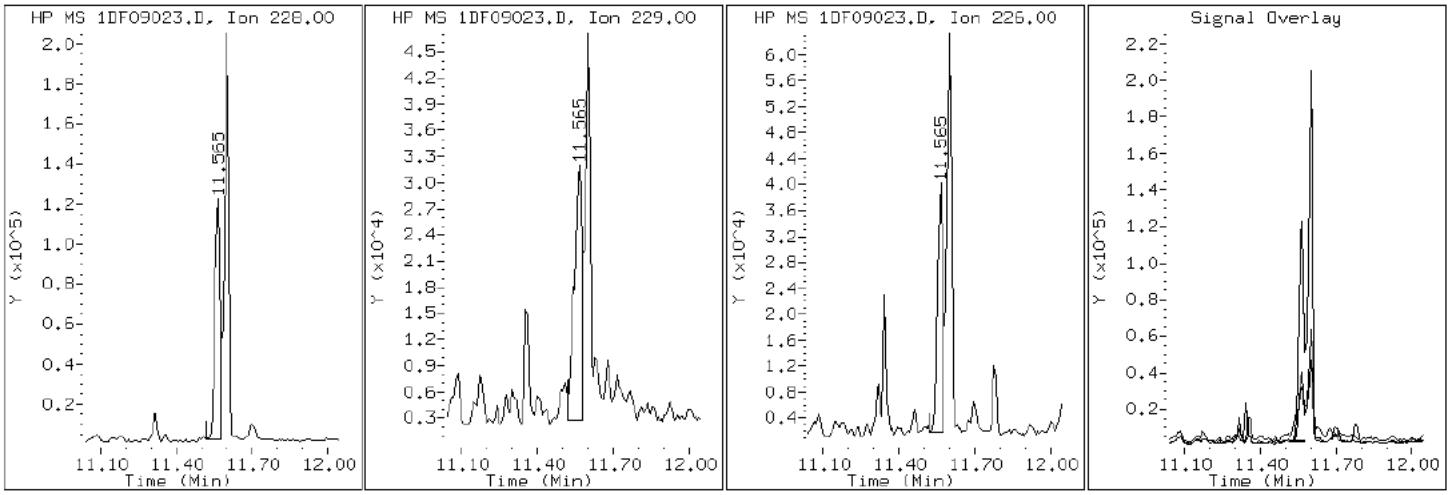
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

18 Benzo(a)anthracene



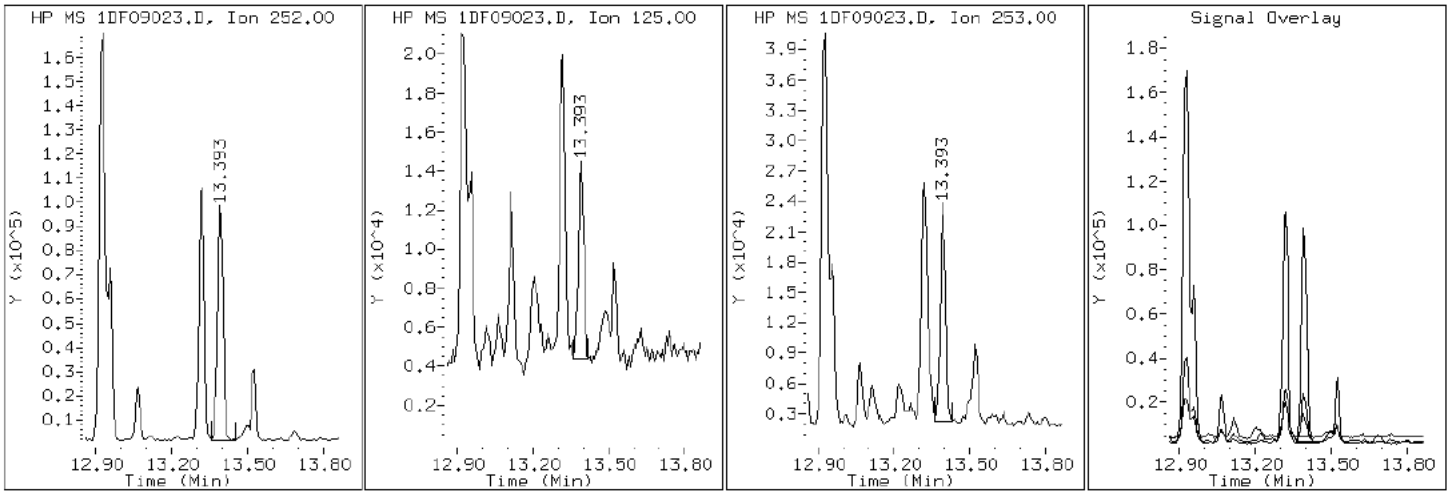
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

23 Benzo(a)pyrene



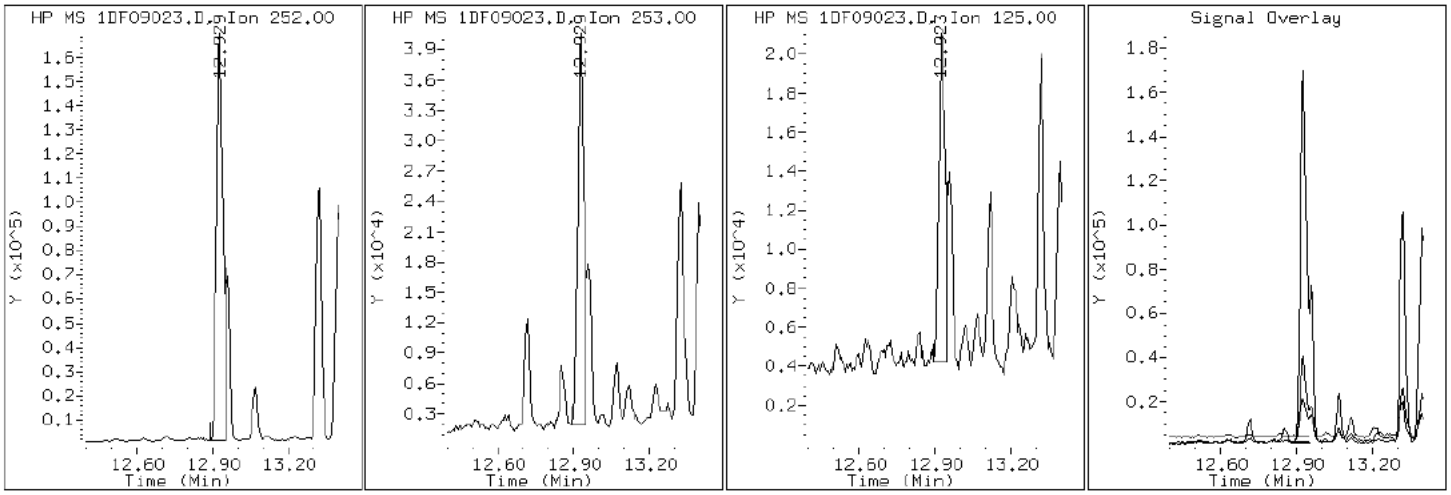
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

21 Benzo(b)fluoranthene



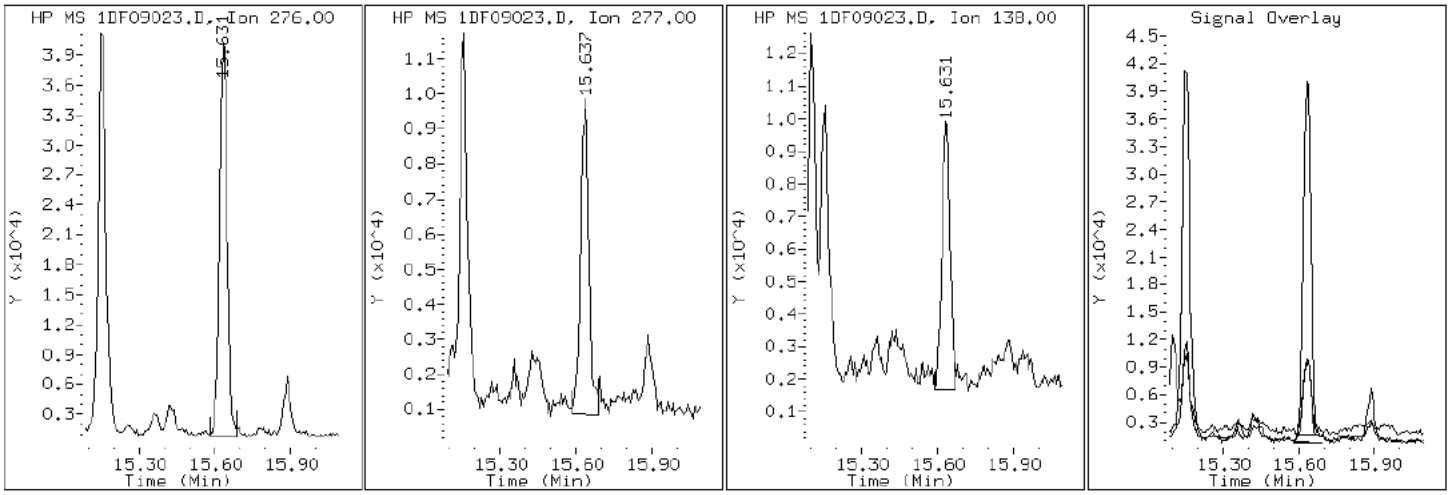
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

27 Benzo(g,h,i)perylene



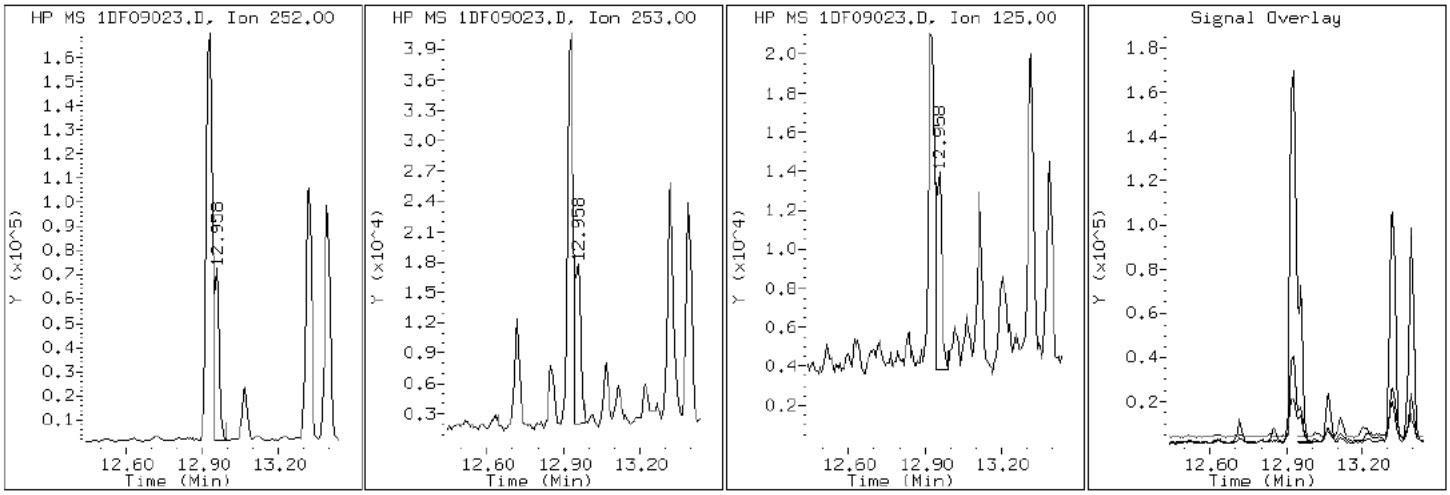
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

22 Benzo(k)fluoranthene



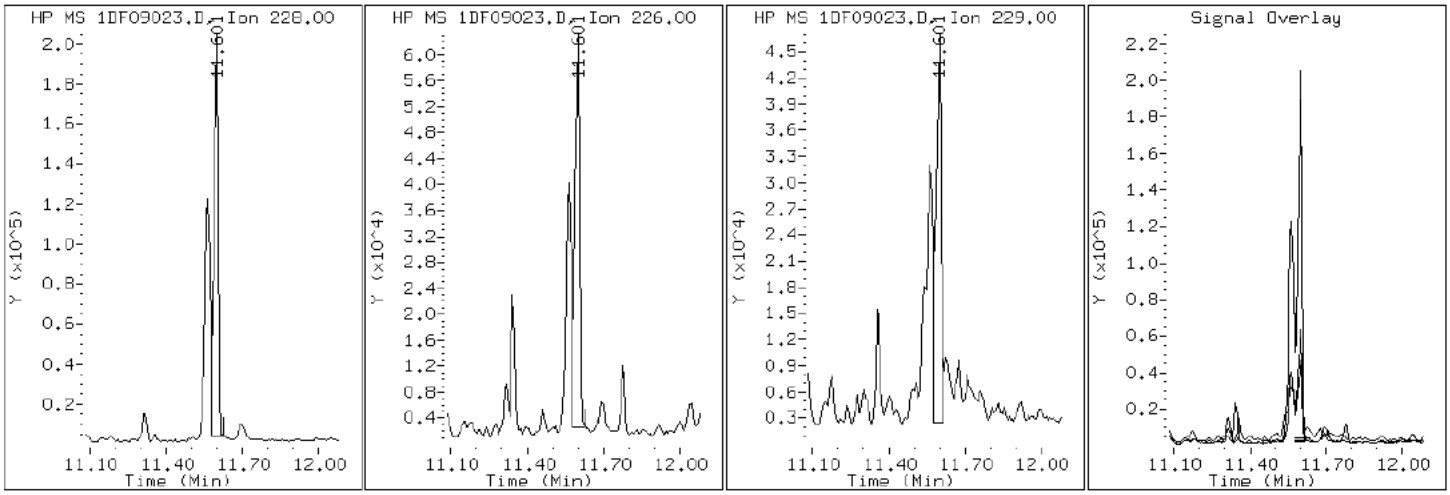
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

20 Chrysene



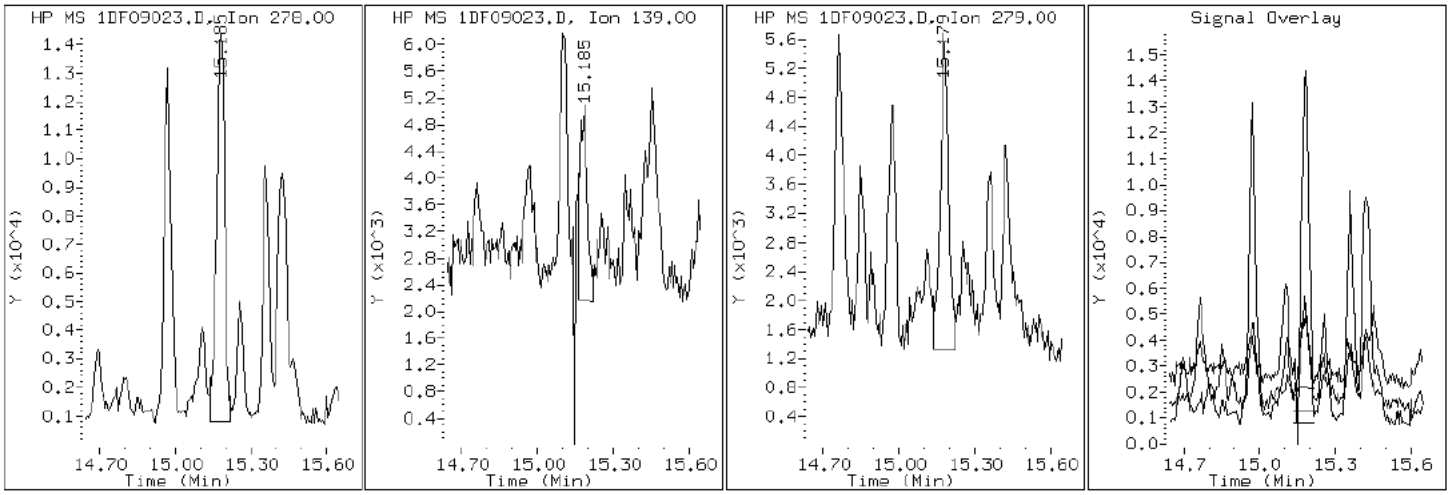
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

26 Dibenzo(a,h)anthracene



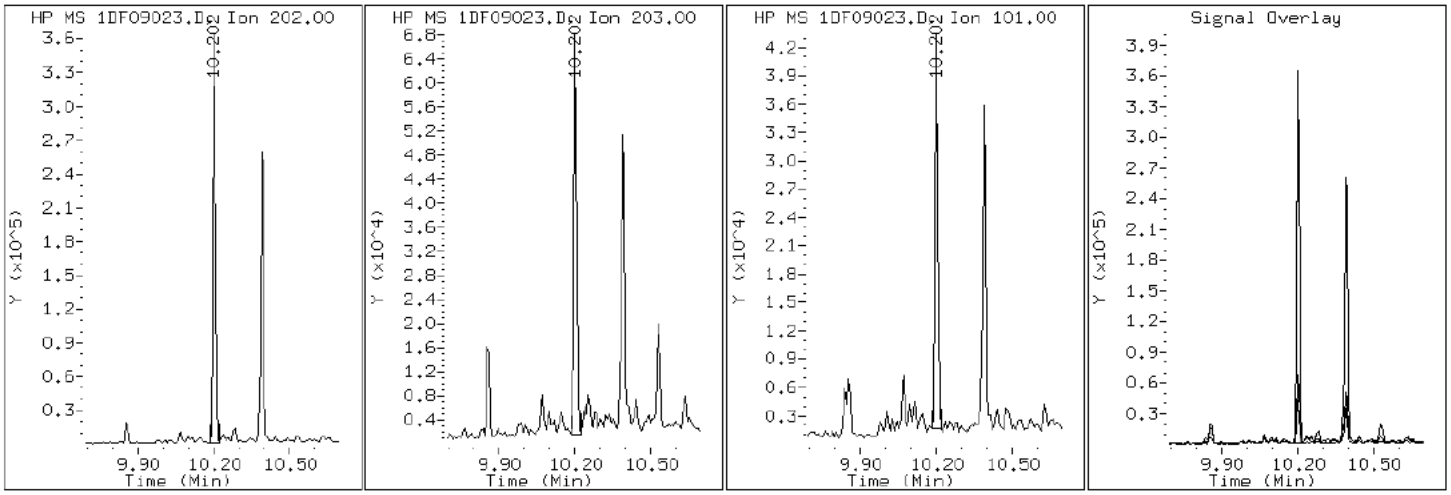
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

16 Fluoranthene



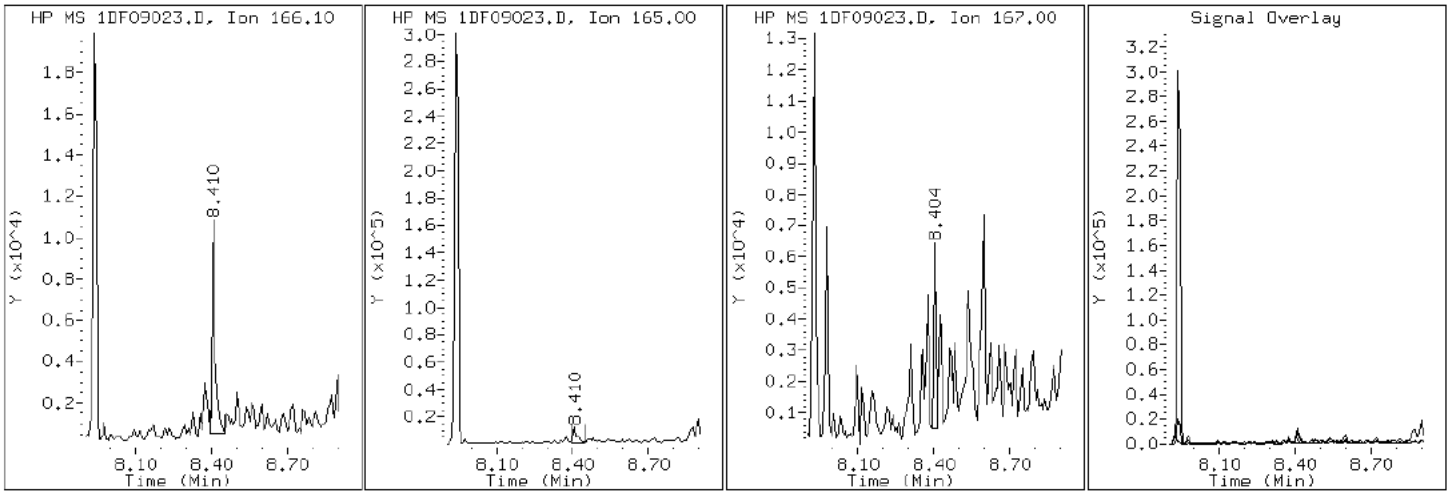
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

10 Fluorene



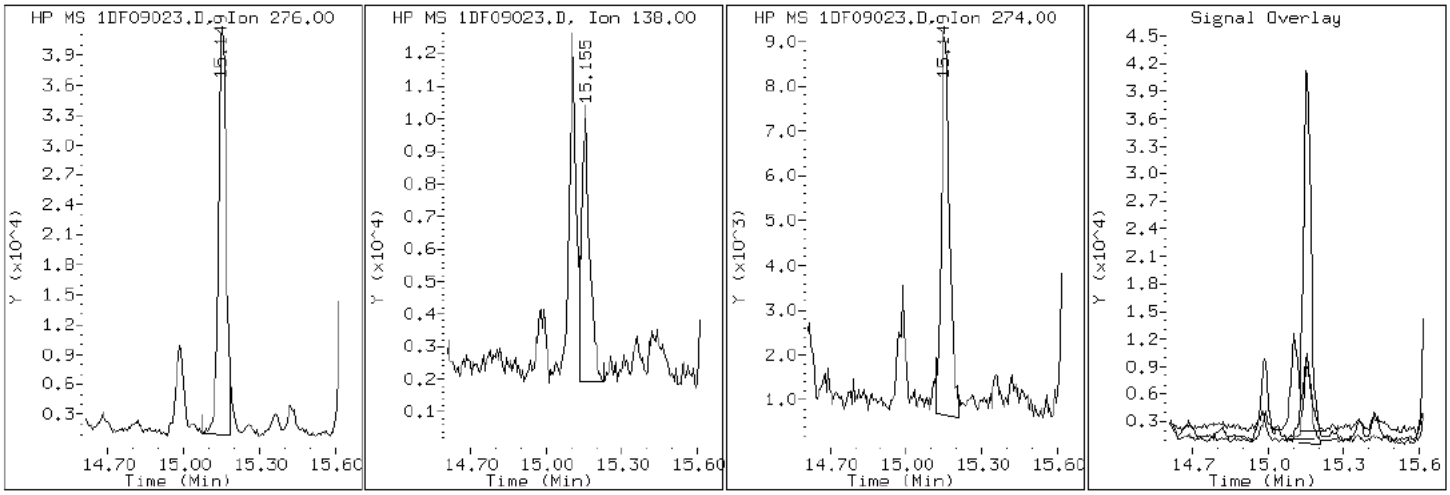
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

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



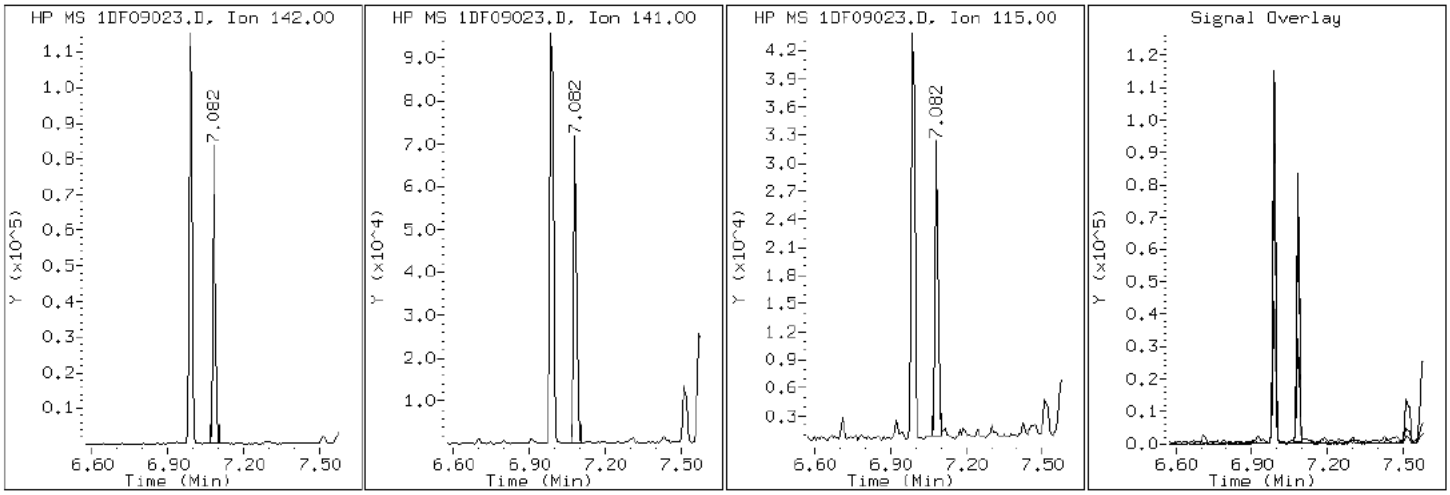
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

4 1-Methylnaphthalene



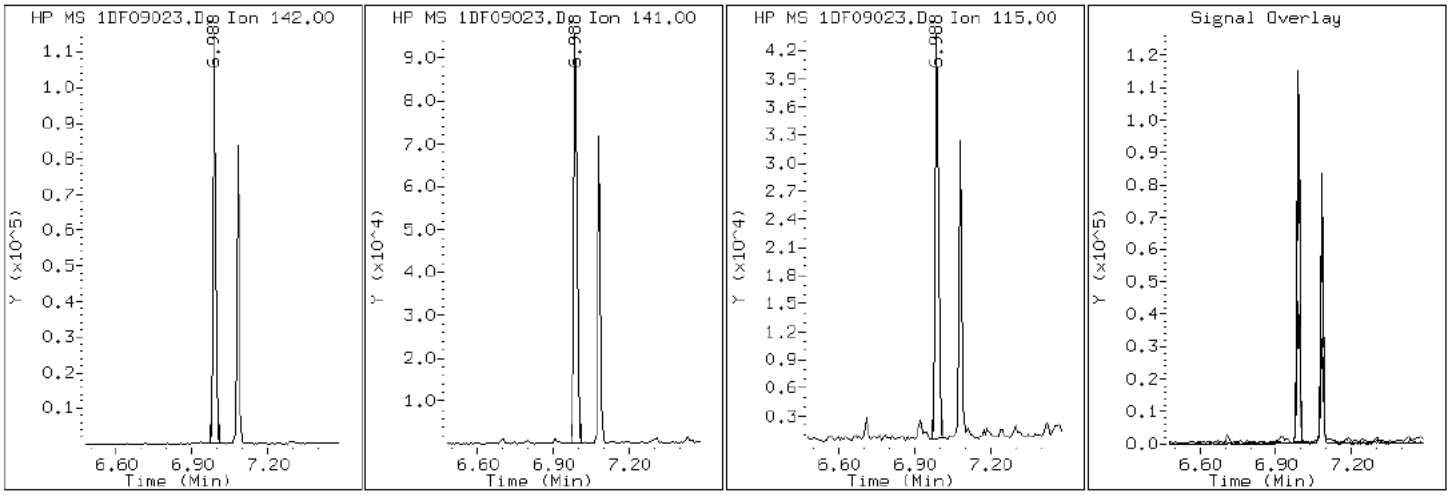
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

3 2-Methylnaphthalene



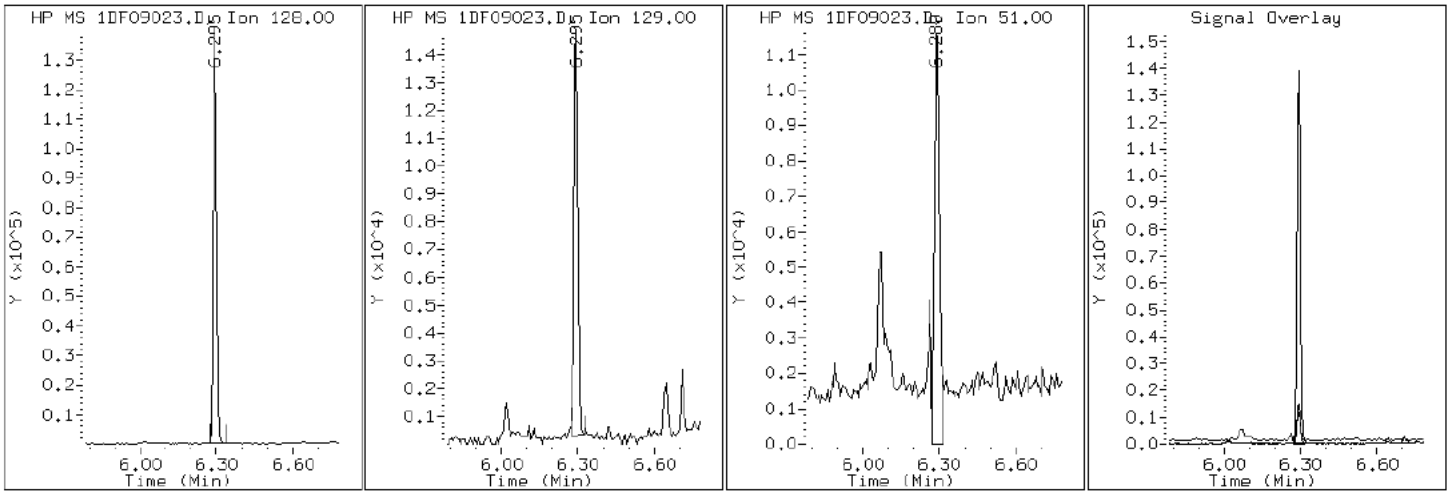
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

2 Naphthalene



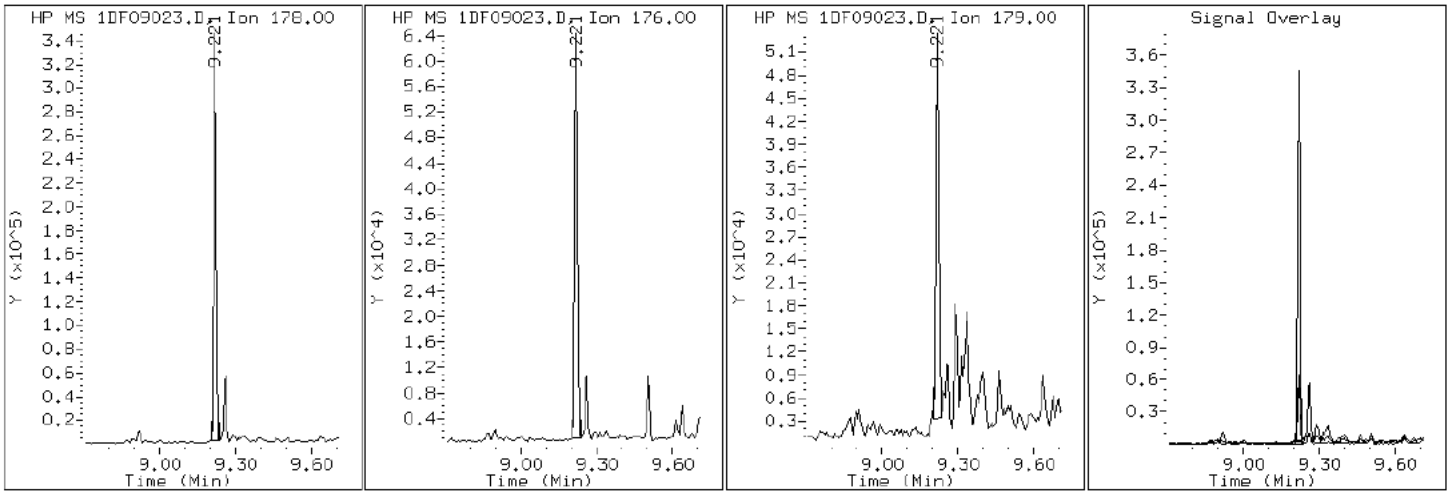
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

12 Phenanthrene



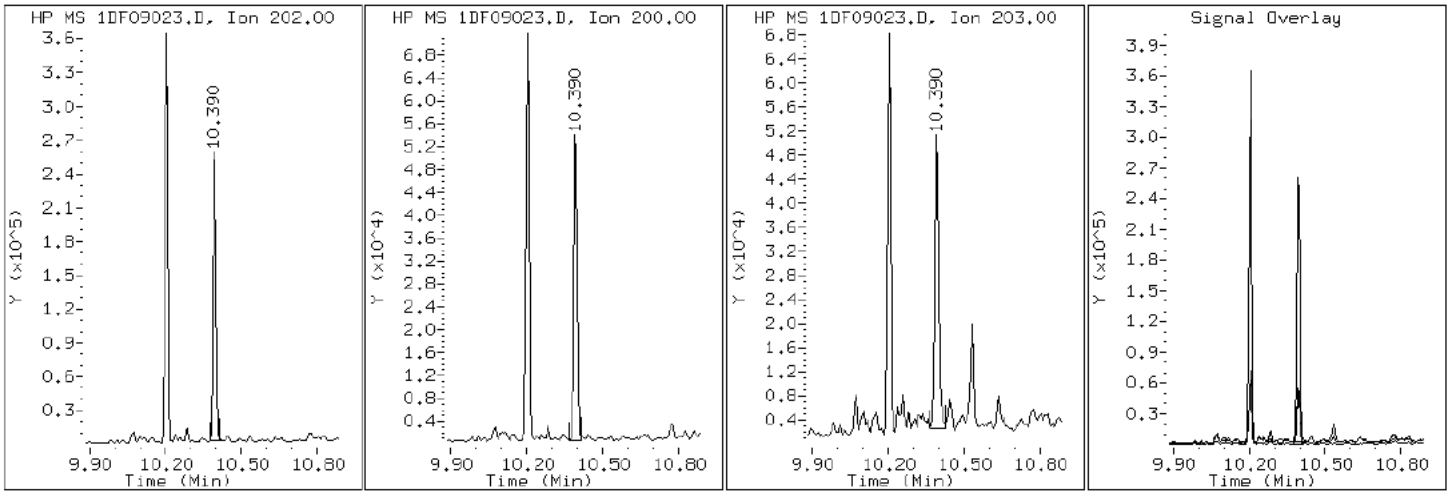
Data File: 1DF09023.D

Date: 09-JUN-2013 17:35

Client ID: HP0175C-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-26-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09023.D
Inj. Date and Time: 09-JUN-2013 17:35
Instrument ID: BSMSD.i
Client ID: HP0175C-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

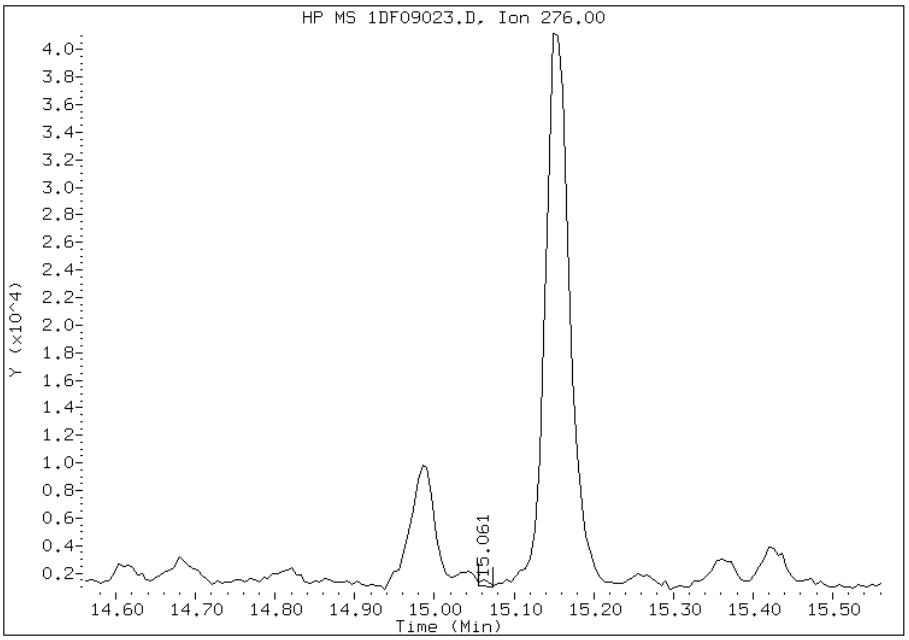
Processing Integration Results

RT: 15.06

Response: 396

Amount: 0

Conc: 12



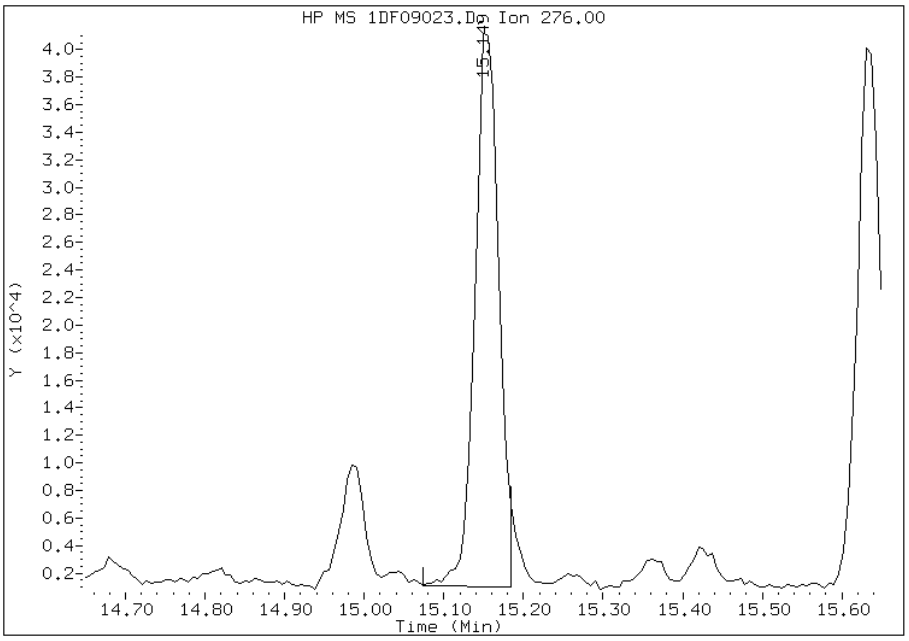
Manual Integration Results

RT: 15.15

Response: 84036

Amount: 1

Conc: 108



Manually Integrated By: cantins
Modification Date: 10-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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: CV1305A-CS | Lab Sample ID: 680-90852-27

Matrix: Solid | Lab File ID: 1DF09024.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:50

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.39(g) | Date Analyzed: 06/09/2013 17:58

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

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

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	63	J	120	23
208-96-8	Acenaphthylene	77		46	5.8
120-12-7	Anthracene	130		9.8	4.9
56-55-3	Benzo[a]anthracene	480		9.3	4.5
50-32-8	Benzo[a]pyrene	560		12	6.0
205-99-2	Benzo[b]fluoranthene	1000		14	7.1
191-24-2	Benzo[g,h,i]perylene	270		23	5.1
207-08-9	Benzo[k]fluoranthene	330		9.3	4.2
218-01-9	Chrysene	590		10	5.2
53-70-3	Dibenz(a,h)anthracene	100		23	4.8
206-44-0	Fluoranthene	820		23	4.6
86-73-7	Fluorene	47		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	270		23	8.3
90-12-0	1-Methylnaphthalene	100		46	5.1
91-57-6	2-Methylnaphthalene	140		46	8.3
91-20-3	Naphthalene	120		46	5.1
85-01-8	Phenanthrene	550		9.3	4.5
129-00-0	Pyrene	620		23	4.3

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\1D060913.b\1DF09024.D
Lab Smp Id: 680-90852-A-27-A Client Smp ID: CV1305A-CS
Inj Date : 09-JUN-2013 17:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-27-a
Misc Info : 680-90852-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 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	15.390	Weight Extracted
M	16.122	% 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	6.269	6.263	(1.000)	3088903	40.0000	
* 7	Acenaphthene-d10	164	7.943	7.932	(1.000)	1738495	40.0000	
* 11	Phenanthrene-d10	188	9.206	9.189	(1.000)	2758431	40.0000	
$ 15	o-Terphenyl	230	9.506	9.500	(1.033)	226471	5.60409	430
* 19	Chrysene-d12	240	11.580	11.557	(1.000)	2958318	40.0000	
* 24	Perylene-d12	264	13.513	13.460	(1.000)	2426893	40.0000	(H)
2	Naphthalene	128	6.292	6.281	(1.004)	119905	1.57410	120
3	2-Methylnaphthalene	142	6.991	6.980	(1.115)	87758	1.80940	140
4	1-Methylnaphthalene	142	7.085	7.074	(1.130)	67106	1.34396	100
6	Acenaphthylene	152	7.814	7.802	(0.984)	71673	0.99435	77
8	Acenaphthene	154	7.967	7.961	(1.003)	37322	0.81621	63
10	Fluorene	166	8.407	8.402	(1.058)	31267	0.60435	47
12	Phenanthrene	178	9.224	9.207	(1.002)	533714	7.14406	550
13	Anthracene	178	9.259	9.248	(1.006)	123882	1.70903	130

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.205	10.194	(1.108)	810480	10.6044	820
17 Pyrene	202	10.399	10.382	(0.898)	690981	7.97785	620
18 Benzo(a)anthracene	228	11.568	11.539	(0.999)	541139	6.16356	480
20 Chrysene	228	11.609	11.580	(1.003)	603366	7.63184	590
21 Benzo(b)fluoranthene	252	12.943	12.896	(0.958)	811247	13.3431	1000(H)
22 Benzo(k)fluoranthene	252	12.978	12.938	(0.960)	271815	4.26921	330(H)
23 Benzo(a)pyrene	252	13.413	13.361	(0.993)	425559	7.16864	560(H)
25 Indeno(1,2,3-cd)pyrene	276	15.188	15.111	(1.124)	212388	3.51490	270(MH)
26 Dibenzo(a,h)anthracene	278	15.211	15.147	(1.126)	72573	1.32318	100(H)
27 Benzo(g,h,i)perylene	276	15.669	15.587	(1.160)	193239	3.50668	270(H)

QC Flag Legend

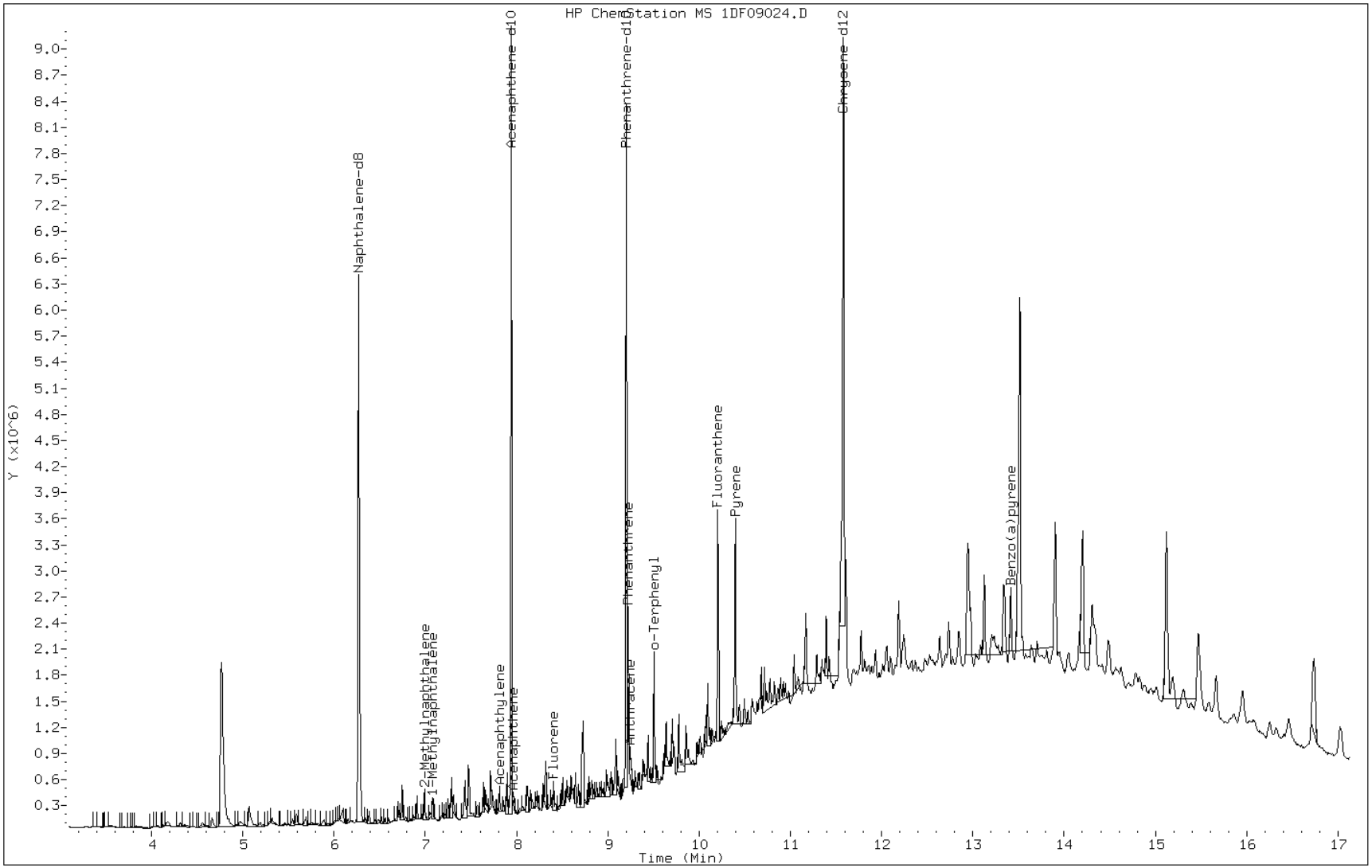
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC



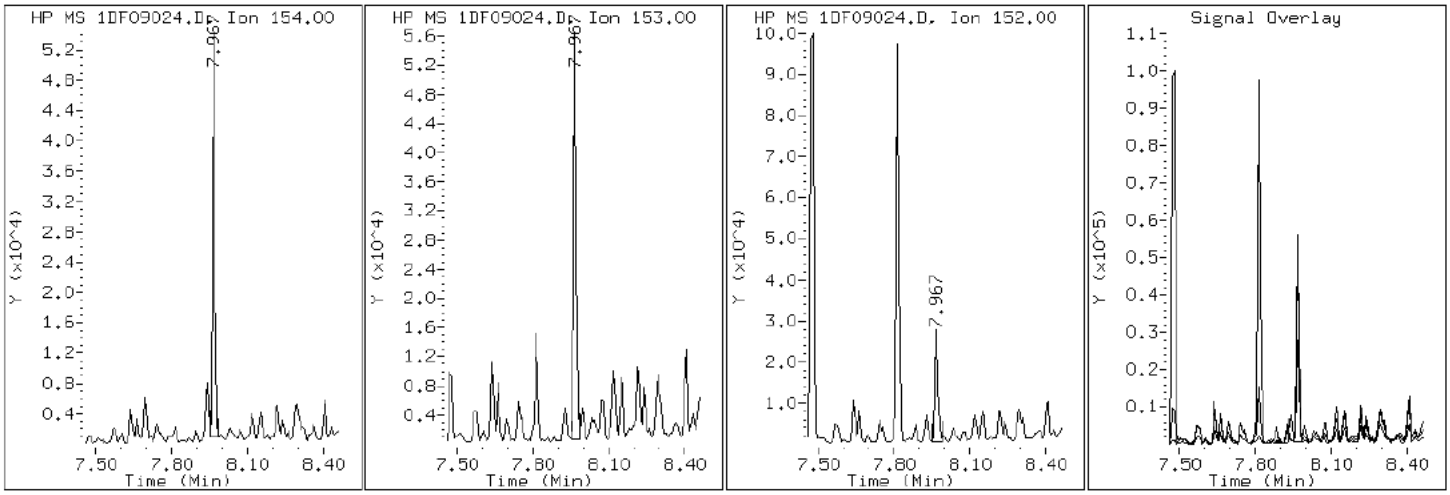
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

8 Acenaphthene



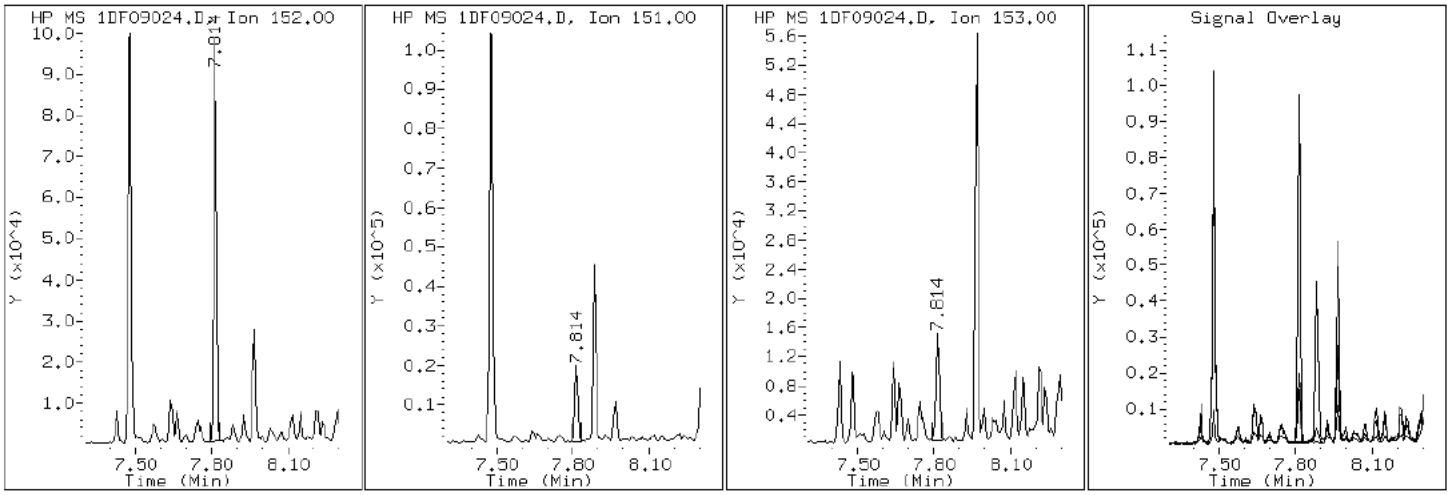
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

6 Acenaphthylene



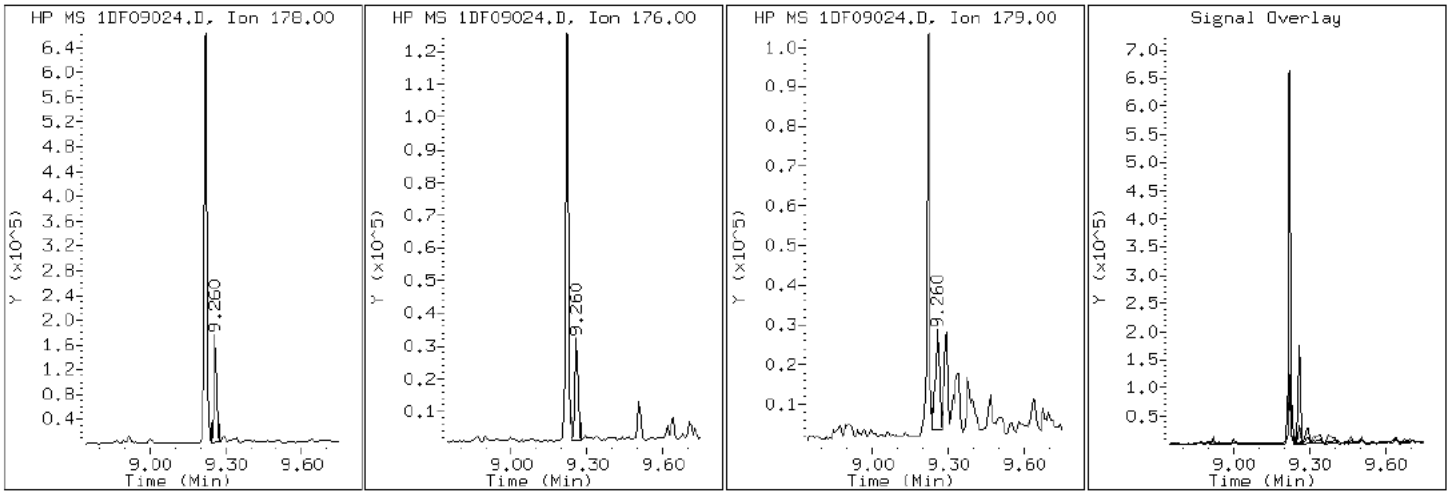
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

13 Anthracene



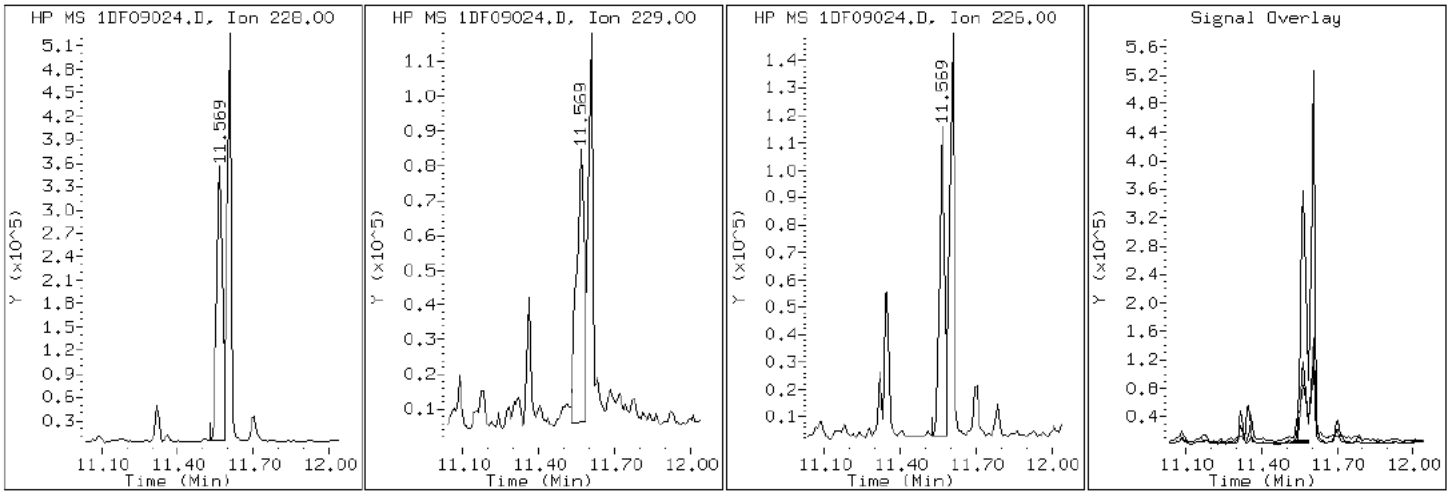
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

18 Benzo(a)anthracene



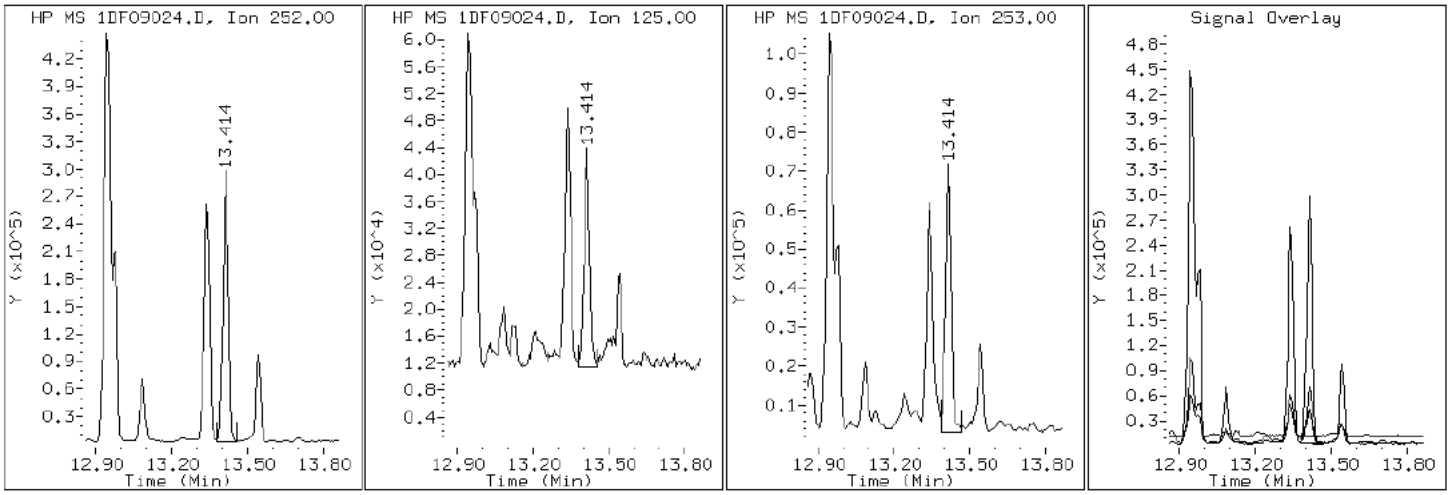
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

23 Benzo(a)pyrene



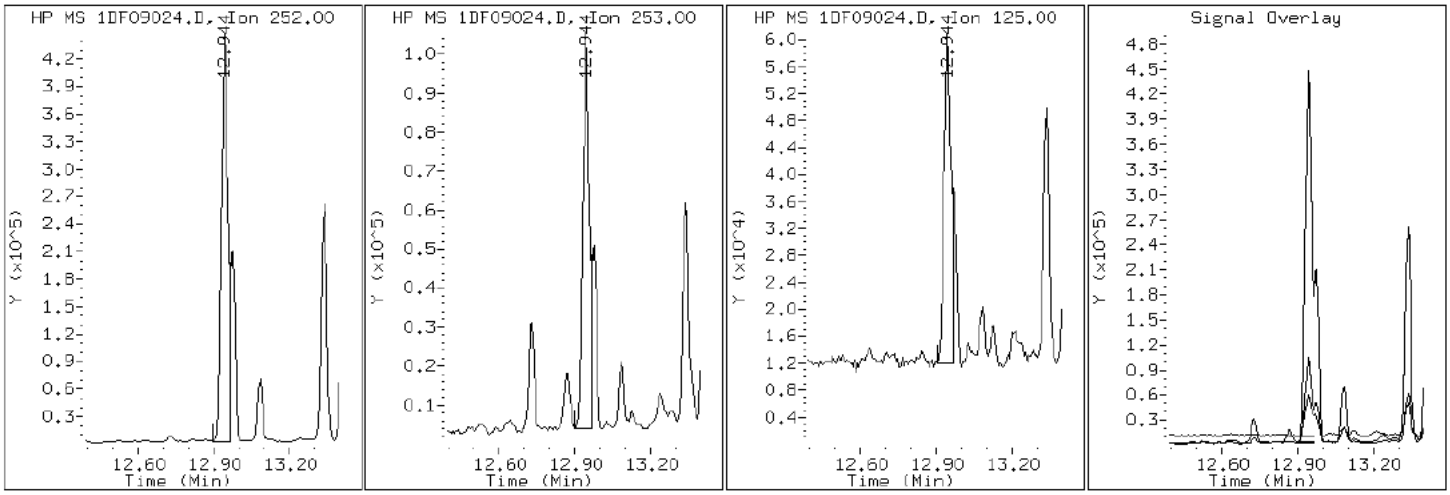
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

21 Benzo(b)fluoranthene



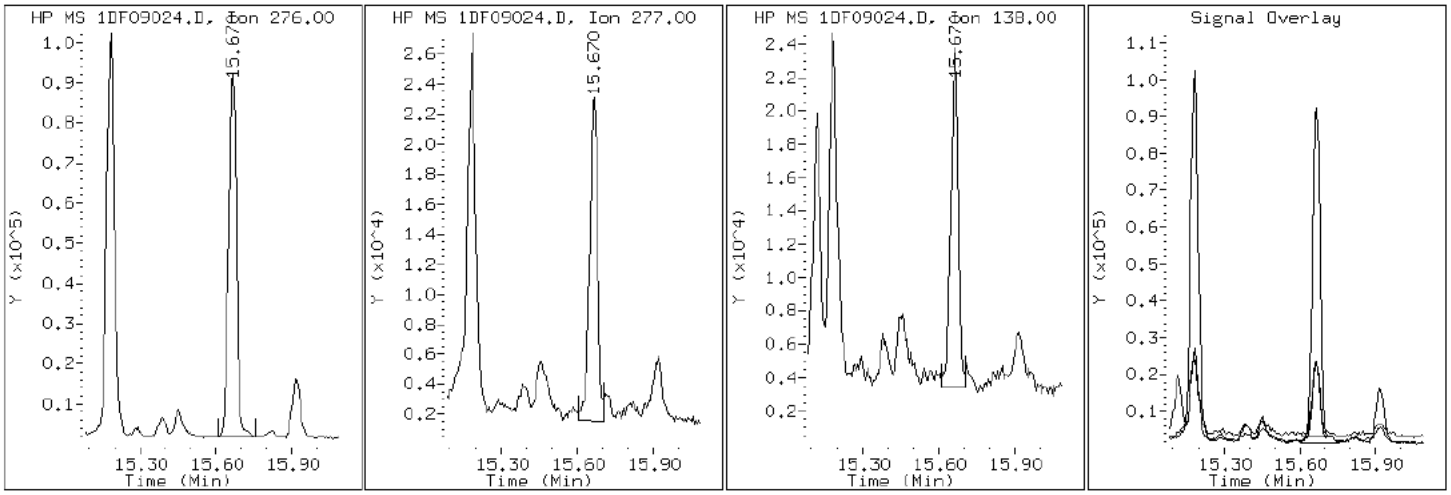
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

27 Benzo(g,h,i)perylene



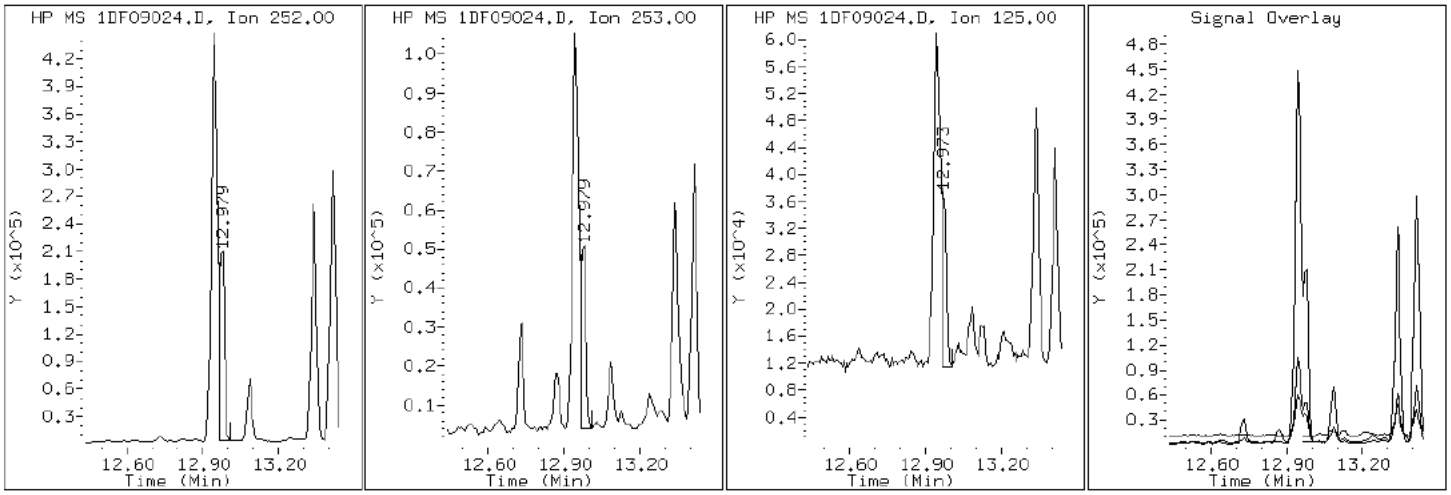
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

22 Benzo(k)fluoranthene



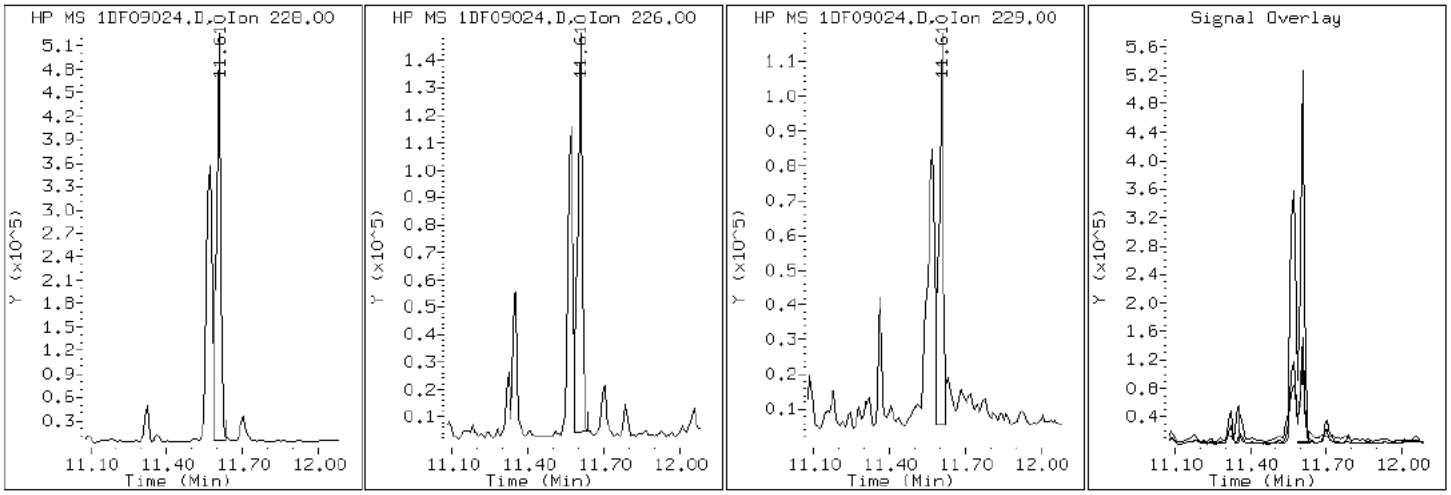
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

20 Chrysene



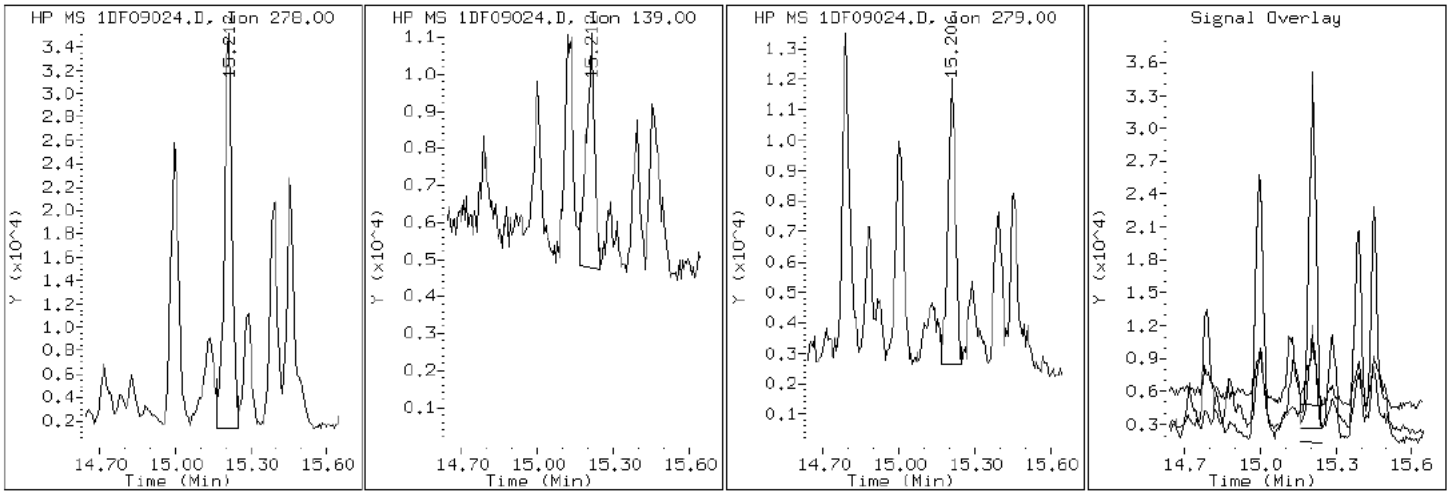
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

26 Dibenzo(a,h)anthracene



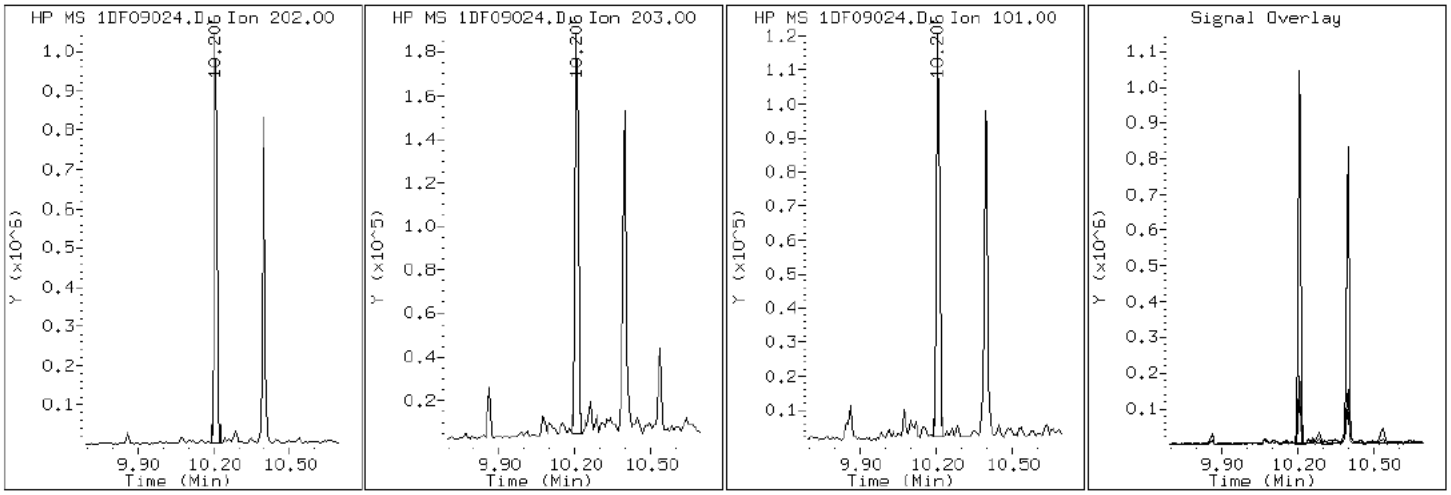
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

16 Fluoranthene



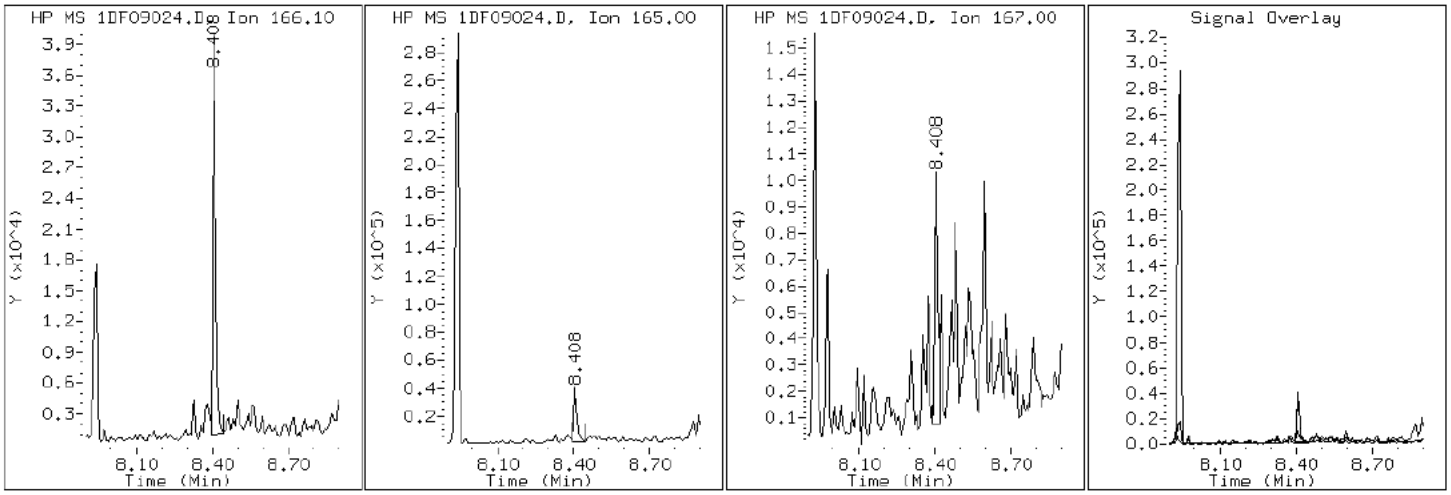
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

10 Fluorene



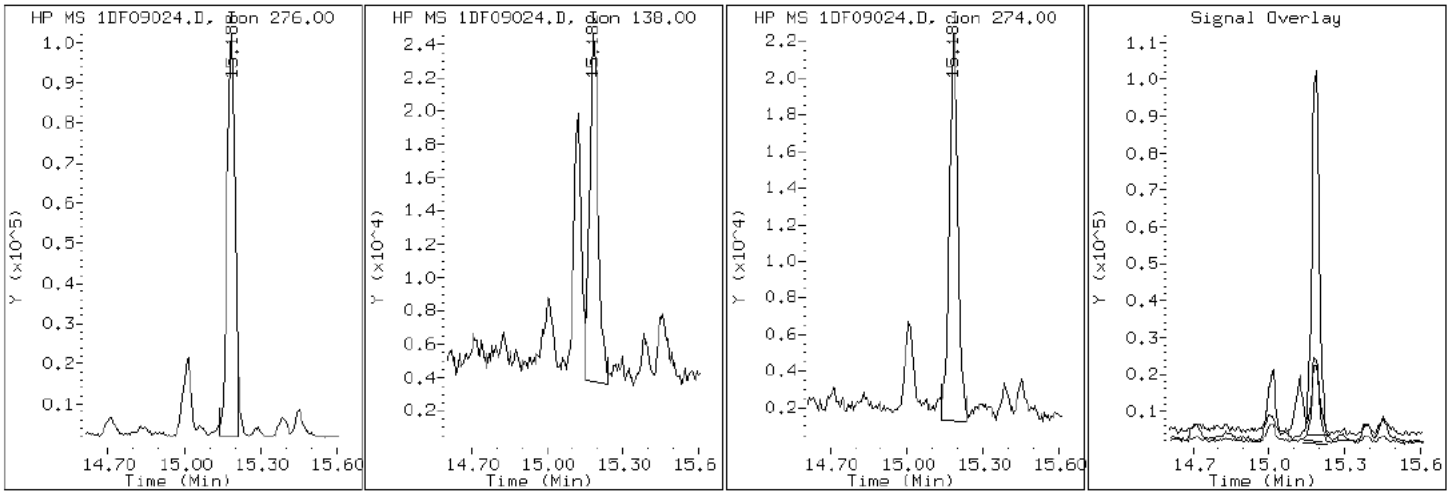
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

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



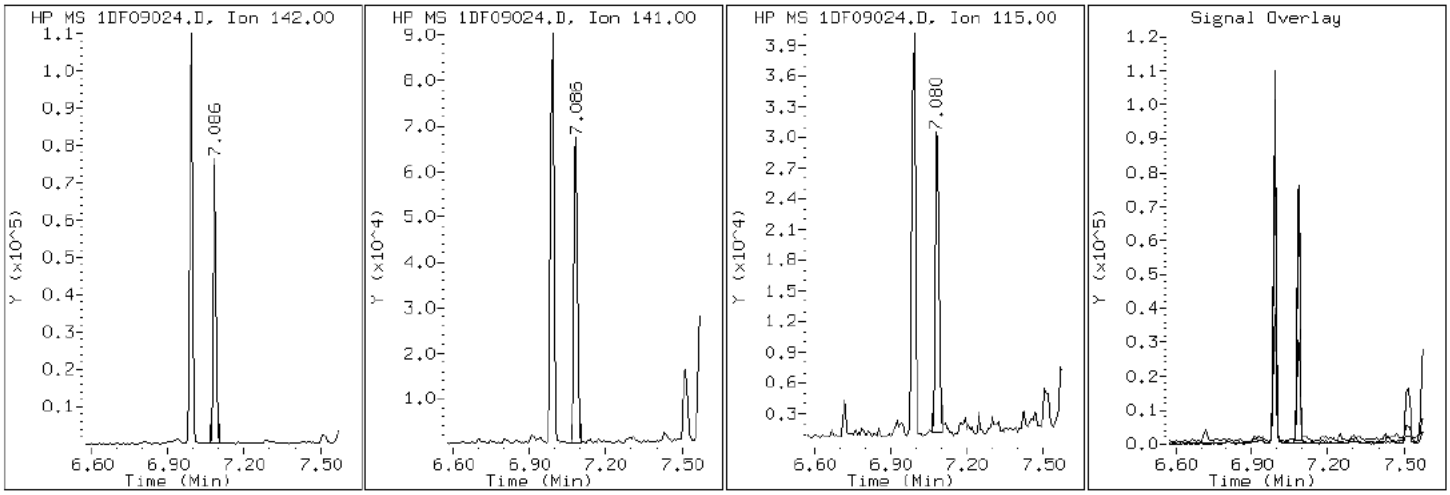
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

4 1-Methylnaphthalene



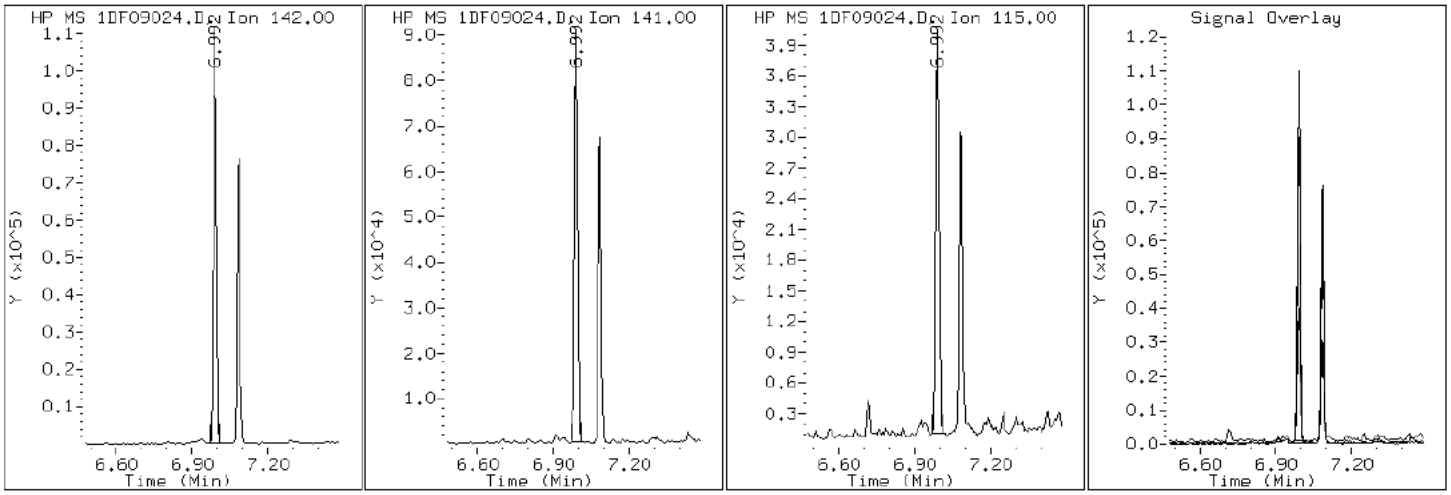
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

3 2-Methylnaphthalene



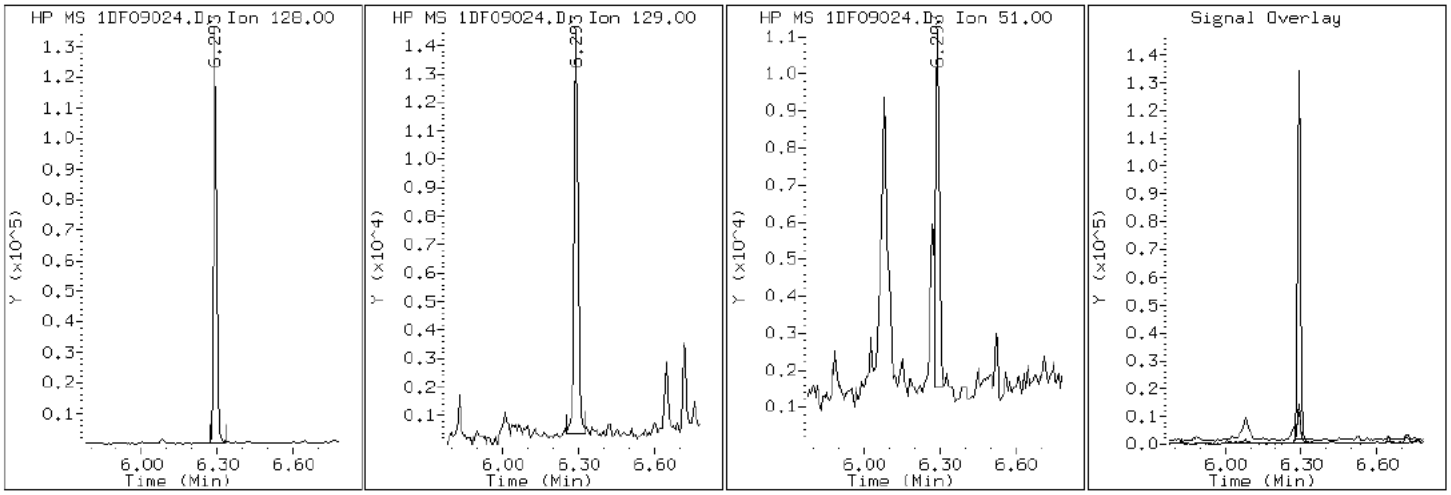
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

2 Naphthalene



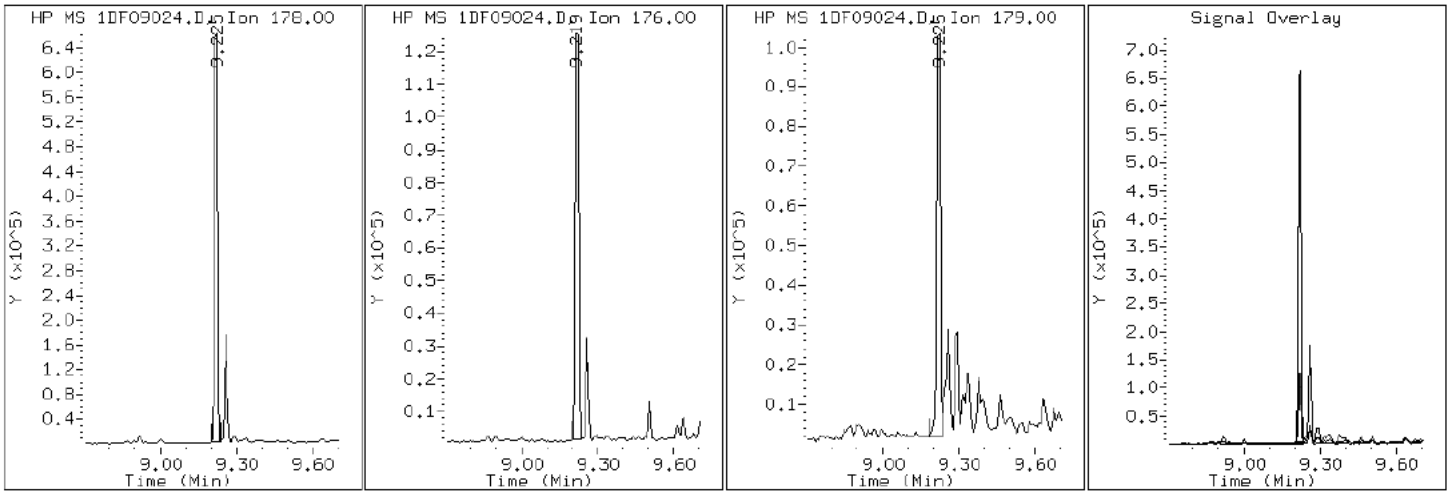
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

12 Phenanthrene



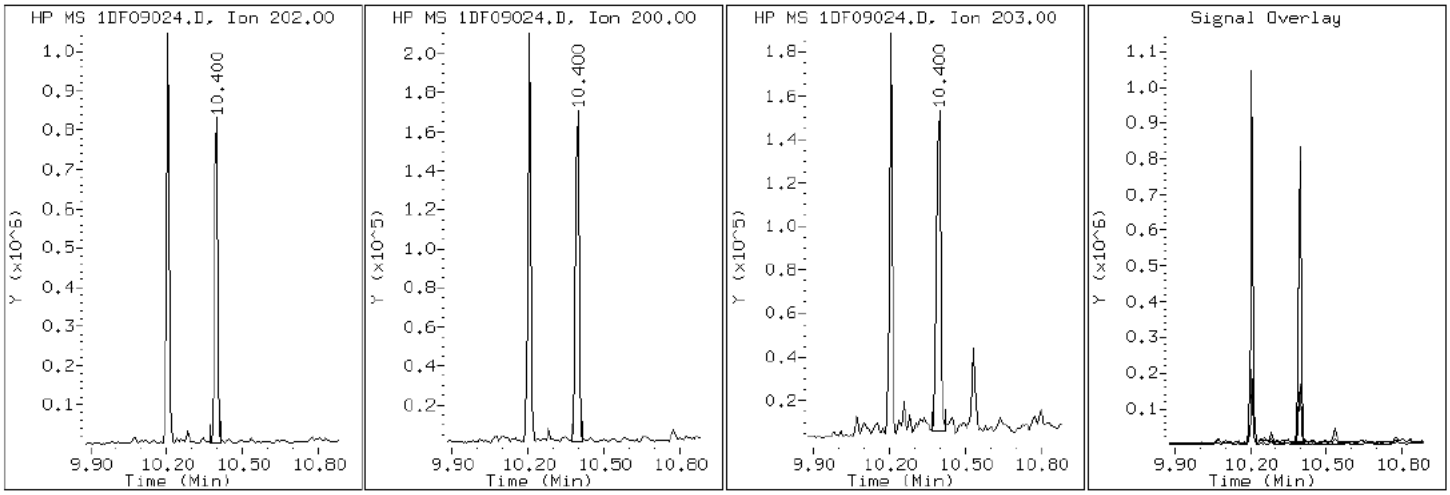
Data File: 1DF09024.D

Date: 09-JUN-2013 17:58

Client ID: CV1305A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-27-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09024.D
Inj. Date and Time: 09-JUN-2013 17:58
Instrument ID: BSMSD.i
Client ID: CV1305A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

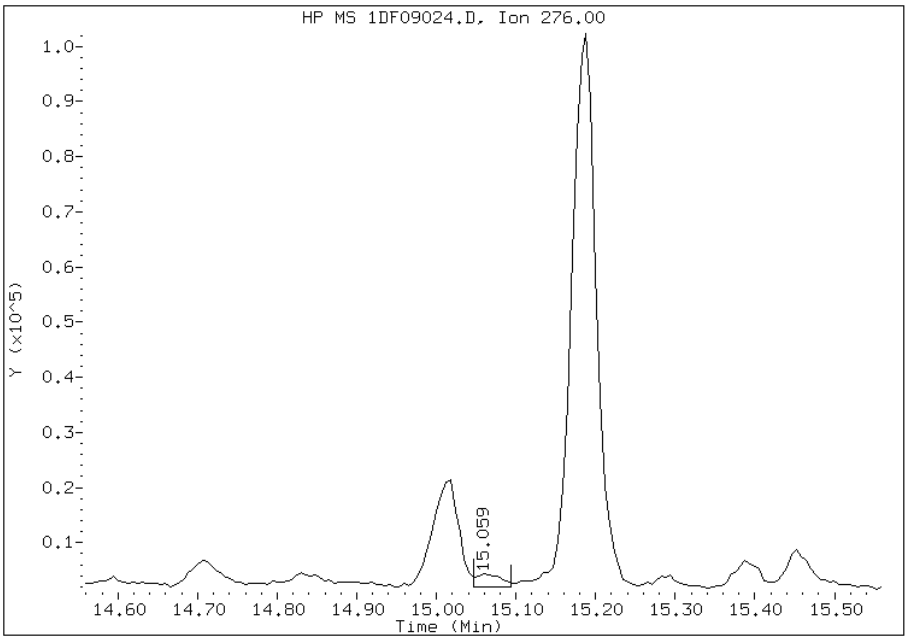
Processing Integration Results

RT: 15.06

Response: 5607

Amount: 0

Conc: 18



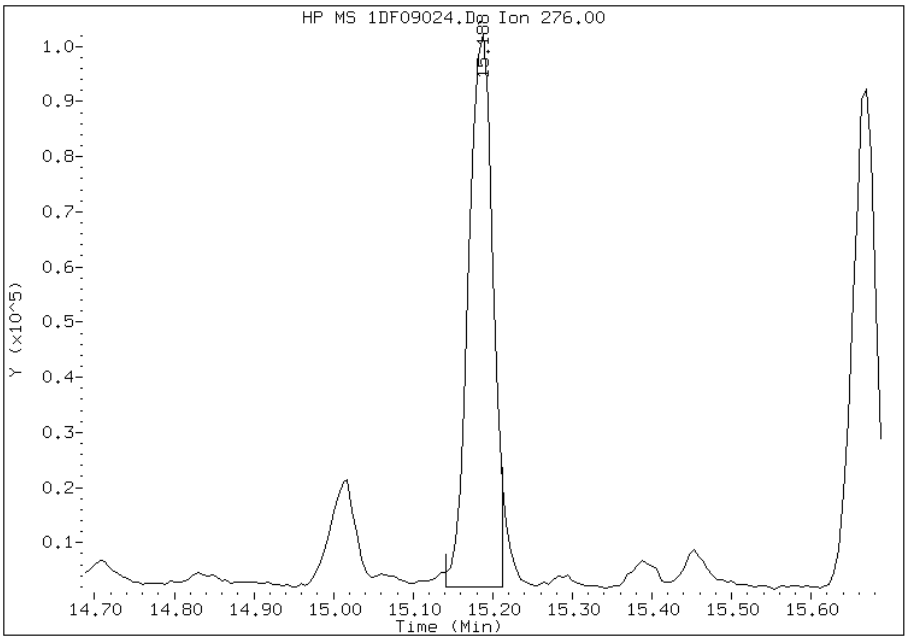
Manual Integration Results

RT: 15.19

Response: 212388

Amount: 4

Conc: 272



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 12:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: CV1305B-CS | Lab Sample ID: 680-90852-28

Matrix: Solid | Lab File ID: 1DF09025.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 14:00

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.01(g) | Date Analyzed: 06/09/2013 18:20

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

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

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	93
208-96-8	Acenaphthylene	25	J	190	23
120-12-7	Anthracene	57		39	20
56-55-3	Benzo[a]anthracene	470		37	18
50-32-8	Benzo[a]pyrene	740		48	24
205-99-2	Benzo[b]fluoranthene	1400		57	28
191-24-2	Benzo[g,h,i]perylene	450		93	20
207-08-9	Benzo[k]fluoranthene	460		37	17
218-01-9	Chrysene	650		42	21
53-70-3	Dibenz(a,h)anthracene	180		93	19
206-44-0	Fluoranthene	510		93	19
86-73-7	Fluorene	93	U	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	480		93	33
90-12-0	1-Methylnaphthalene	43	J	190	20
91-57-6	2-Methylnaphthalene	69	J	190	33
91-20-3	Naphthalene	85	J	190	20
85-01-8	Phenanthrene	240		37	18
129-00-0	Pyrene	440		93	17

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\1D060913.b\1DF09025.D
Lab Smp Id: 680-90852-A-28-A Client Smp ID: CV1305B-CS
Inj Date : 09-JUN-2013 18:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-28-a
Misc Info : 680-90852-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 24
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	15.010	Weight Extracted
M	14.023	% 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	6.272	6.263	(1.000)	3038975	40.0000	
*	7 Acenaphthene-d10	164	7.941	7.932	(1.000)	1748076	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.189	(1.000)	2696802	40.0000	
$	15 o-Terphenyl	230	9.504	9.500	(1.033)	61219	1.54950	480
*	19 Chrysene-d12	240	11.578	11.557	(1.000)	2619676	40.0000	
*	24 Perylene-d12	264	13.493	13.460	(1.000)	2153564	40.0000	
	2 Naphthalene	128	6.296	6.281	(1.004)	20523	0.27385	85
	3 2-Methylnaphthalene	142	6.989	6.980	(1.114)	10686	0.22394	69
	4 1-Methylnaphthalene	142	7.083	7.074	(1.129)	6826	0.13895	43
	6 Acenaphthylene	152	7.812	7.802	(0.984)	5758	0.07945	25
	10 Fluorene	166	8.411	8.402	(1.059)	2151	0.04135	13
	12 Phenanthrene	178	9.222	9.207	(1.002)	57413	0.78607	240
	13 Anthracene	178	9.263	9.248	(1.006)	12959	0.18286	57
	16 Fluoranthene	202	10.203	10.194	(1.109)	122365	1.63763	510

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.391	10.382	(0.897)	109342	1.42562	440
18 Benzo(a)anthracene	228	11.560	11.539	(0.998)	118718	1.52699	470
20 Chrysene	228	11.601	11.580	(1.002)	146488	2.09242	650
21 Benzo(b)fluoranthene	252	12.923	12.896	(0.958)	251174	4.65554	1400
22 Benzo(k)fluoranthene	252	12.959	12.938	(0.960)	83240	1.47333	460
23 Benzo(a)pyrene	252	13.388	13.361	(0.992)	122838	2.39830	740
25 Indeno(1,2,3-cd)pyrene	276	15.144	15.111	(1.122)	78049	1.54234	480(M)
26 Dibenzo(a,h)anthracene	278	15.174	15.147	(1.125)	26578	0.58835	180
27 Benzo(g,h,i)perylene	276	15.626	15.587	(1.158)	71745	1.46719	450

QC Flag Legend

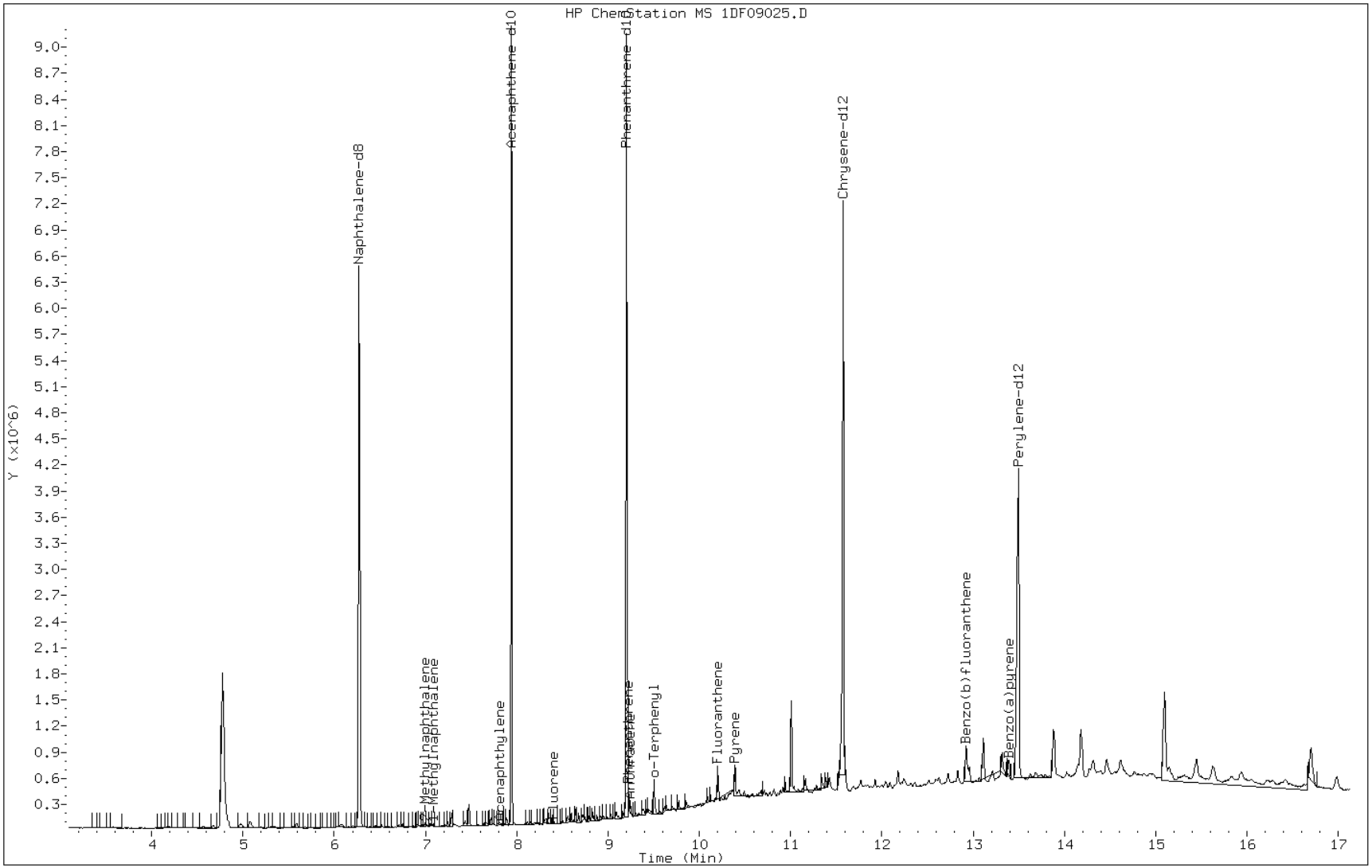
M - Compound response manually integrated.

Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC



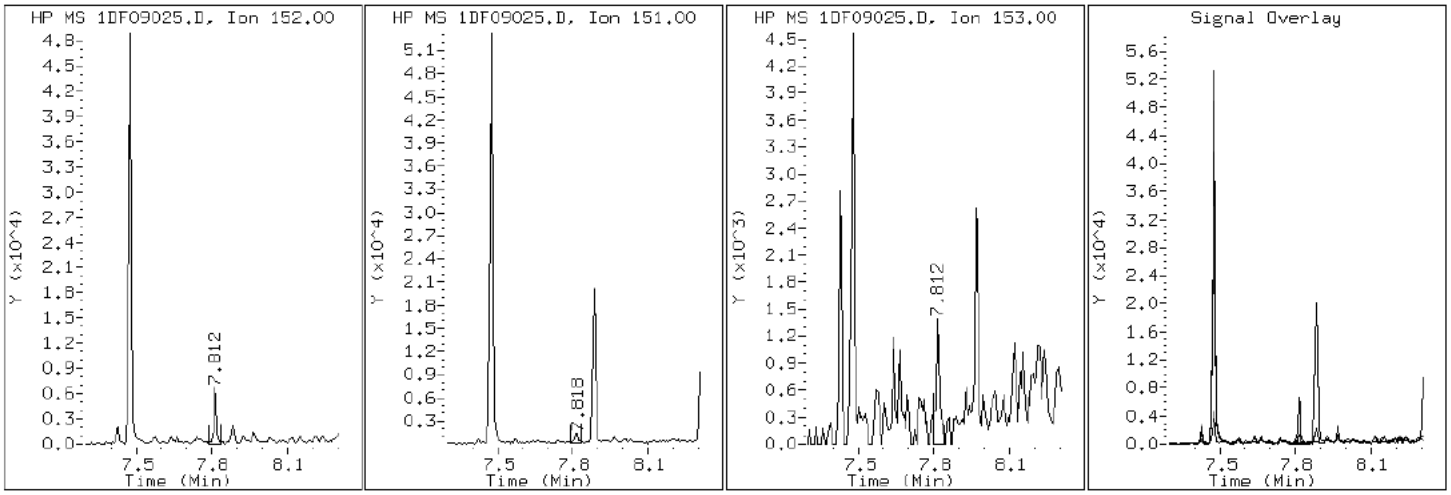
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

6 Acenaphthylene



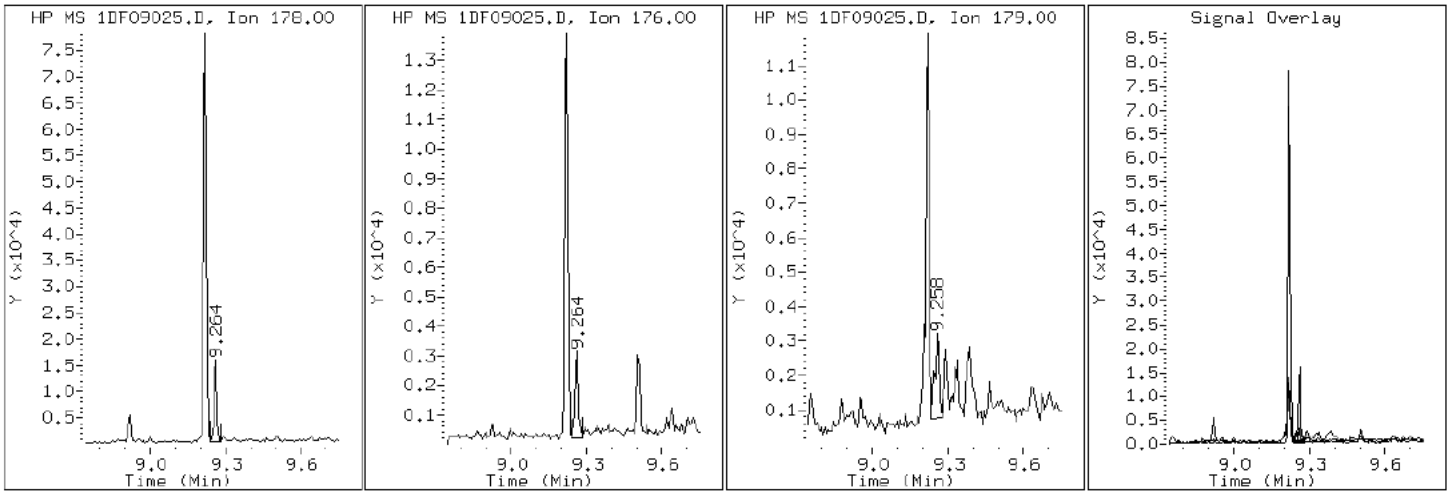
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

13 Anthracene



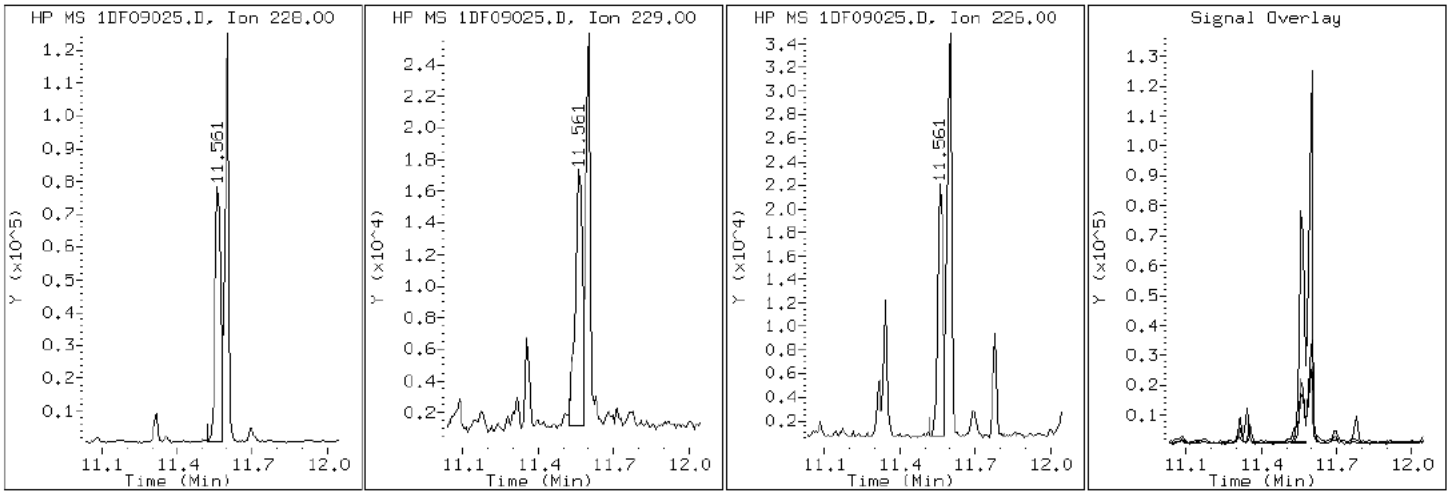
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

18 Benzo(a)anthracene



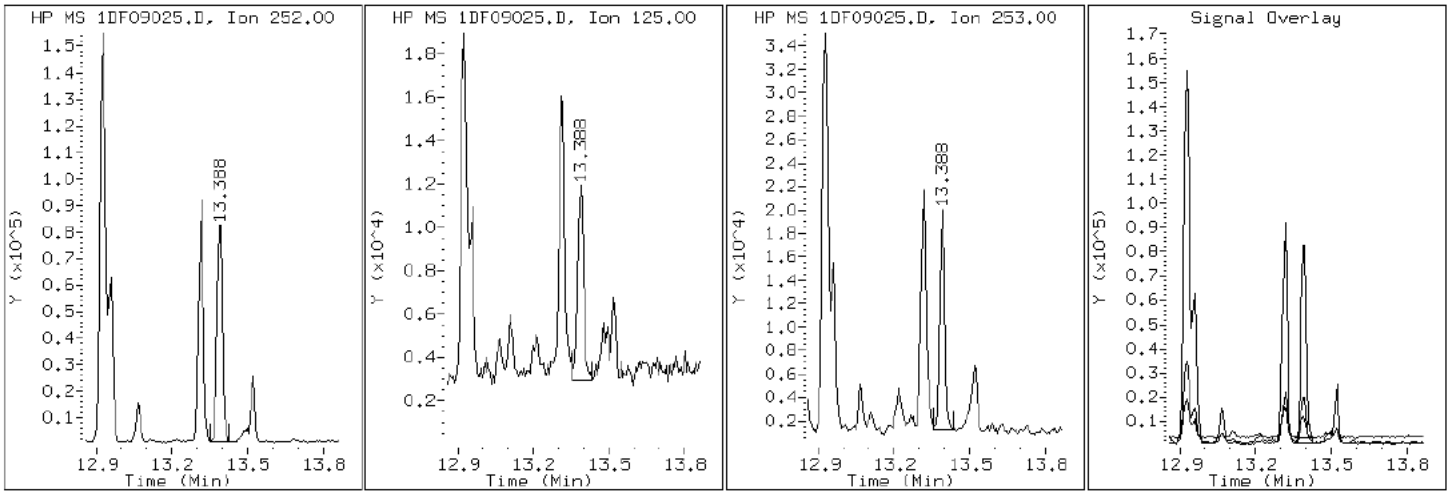
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

23 Benzo(a)pyrene



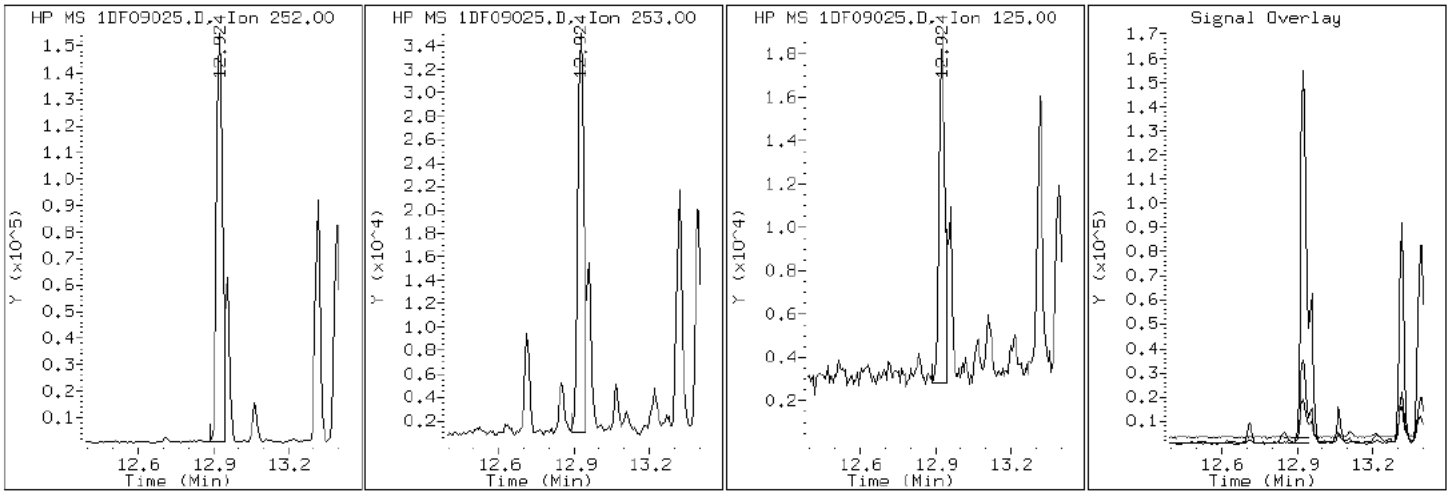
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

21 Benzo(b)fluoranthene



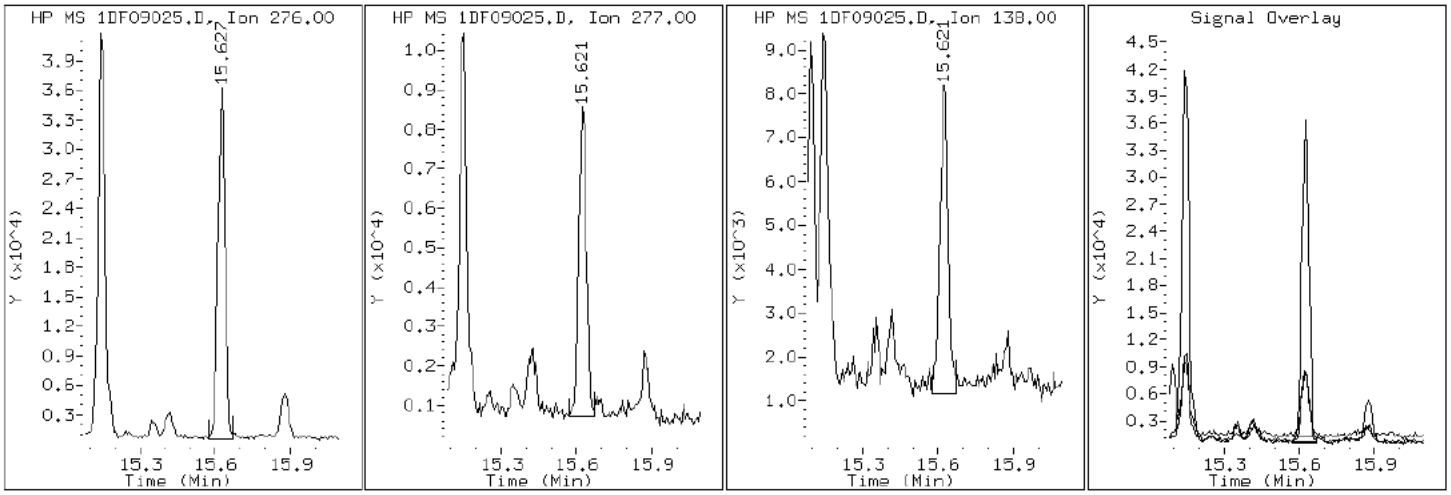
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

27 Benzo(g,h,i)perylene



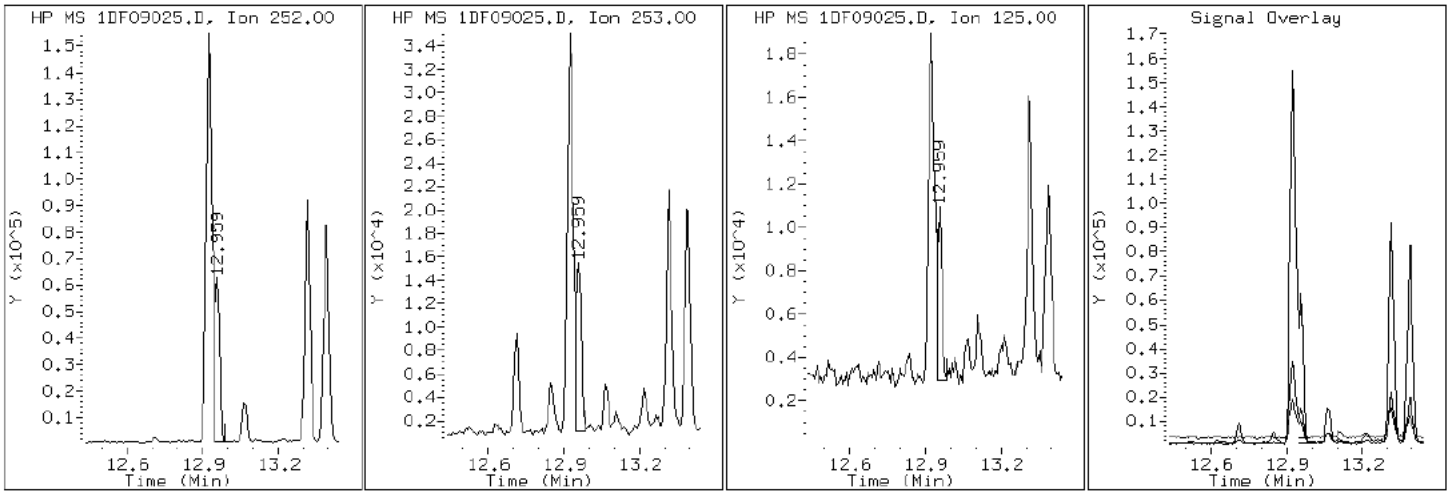
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

22 Benzo(k)fluoranthene



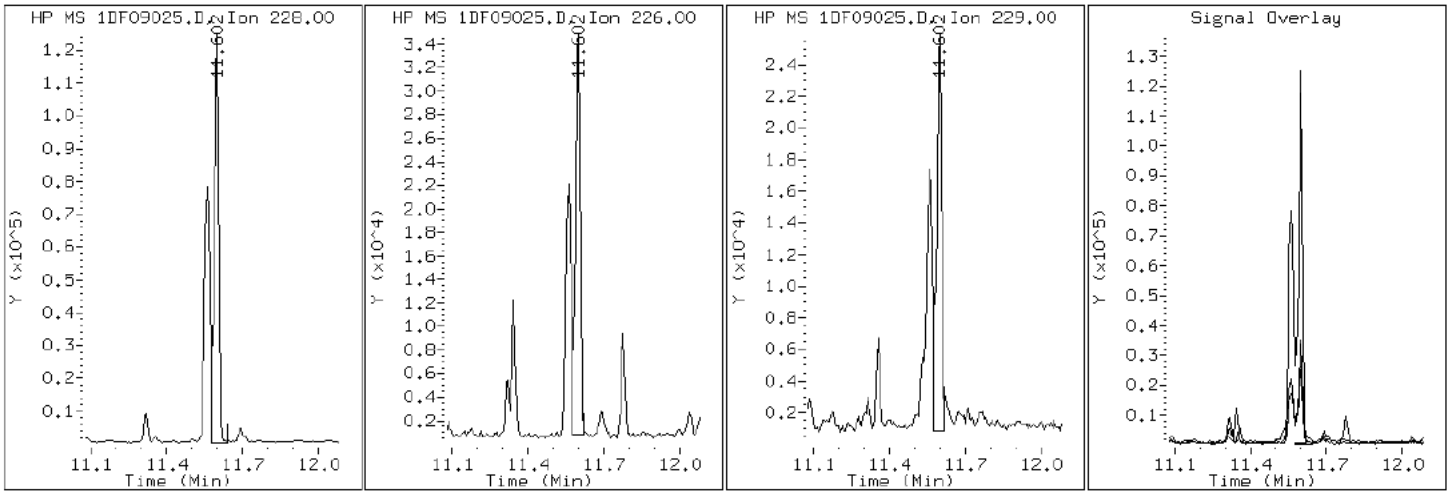
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

20 Chrysene



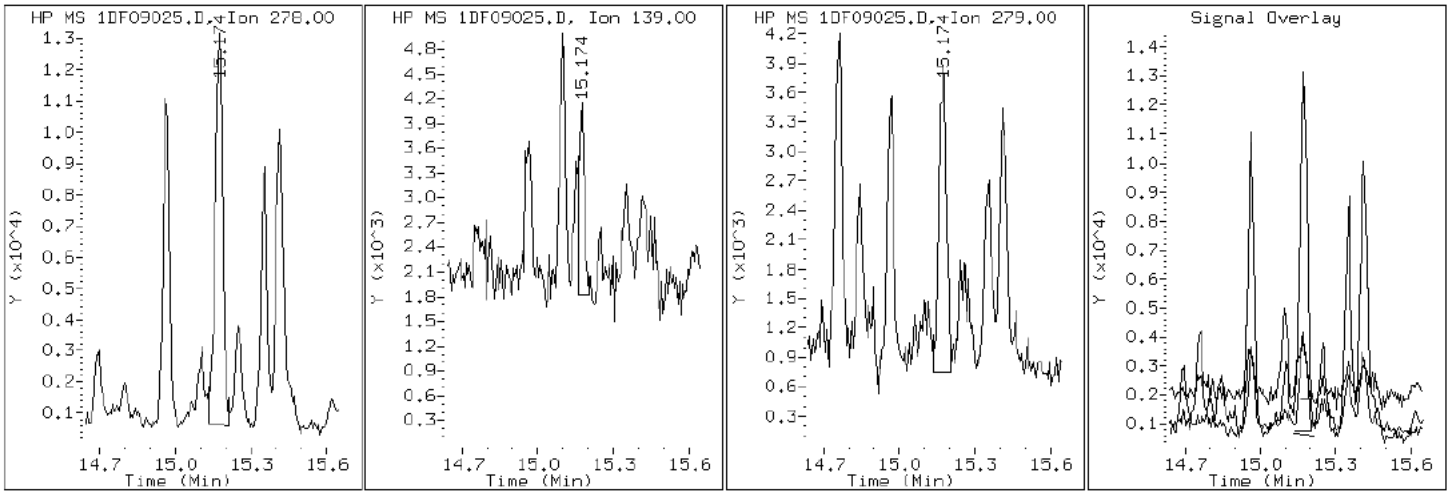
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

26 Dibenzo(a,h)anthracene



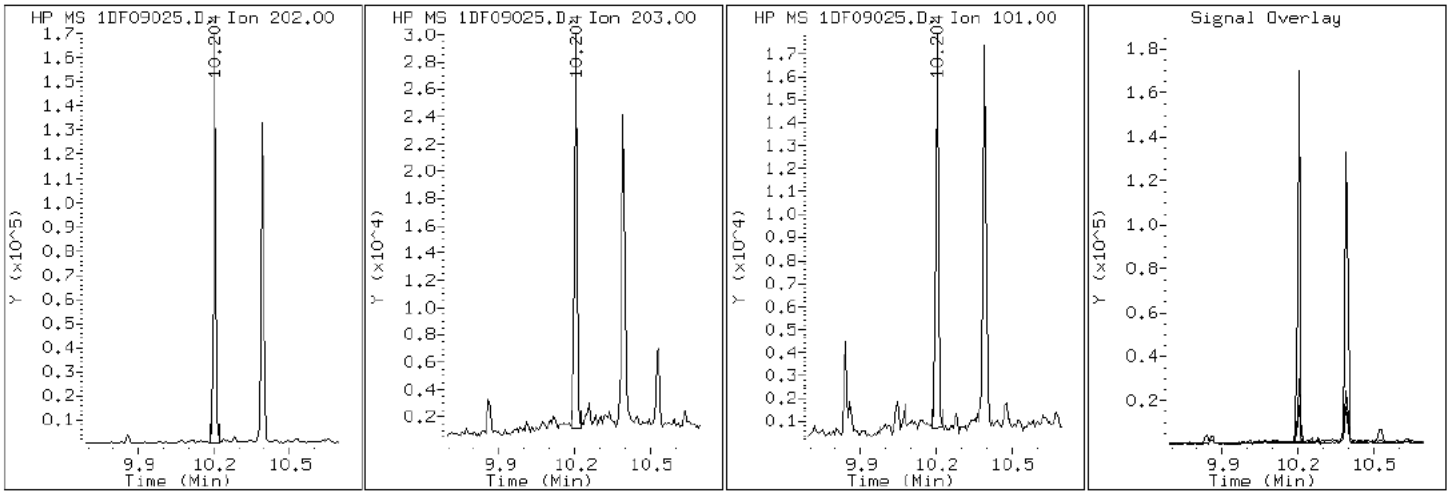
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

16 Fluoranthene



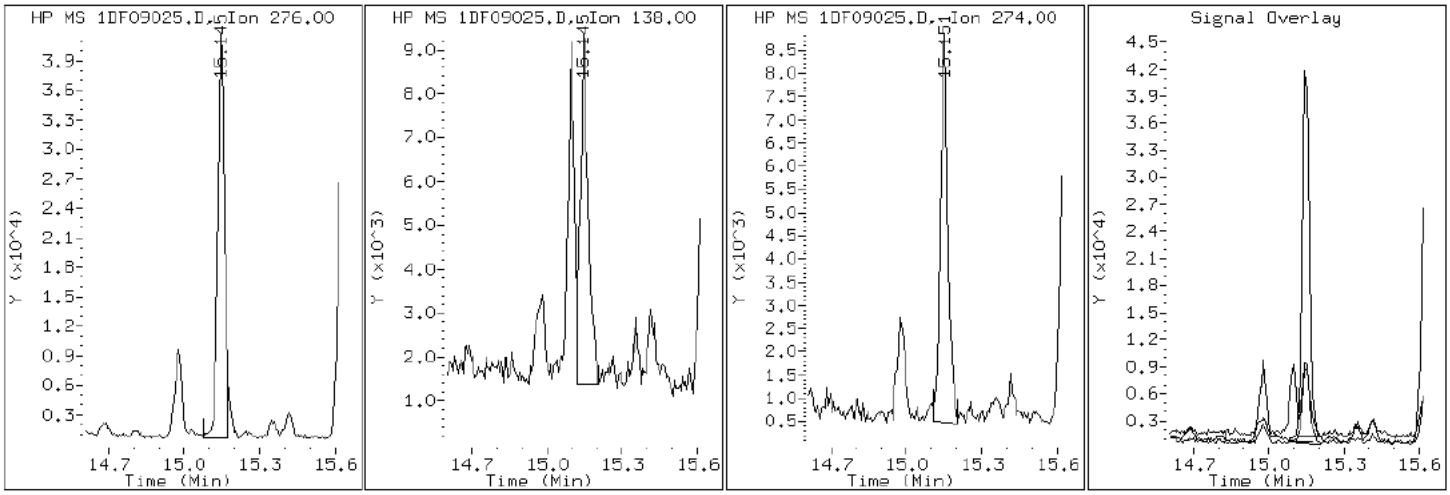
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

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



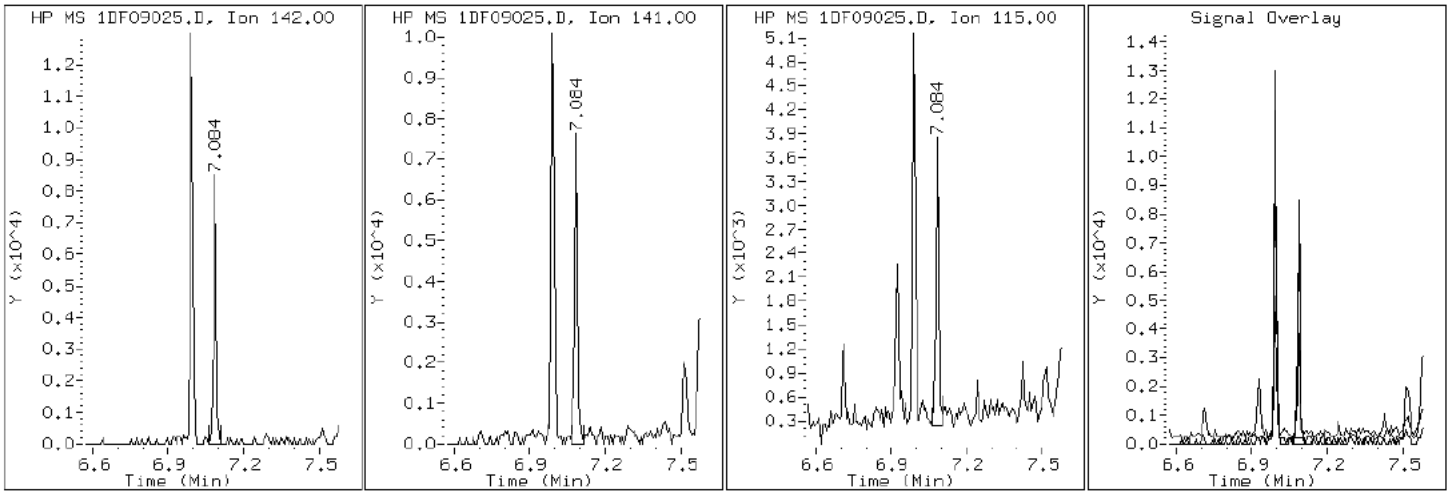
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

4 1-Methylnaphthalene



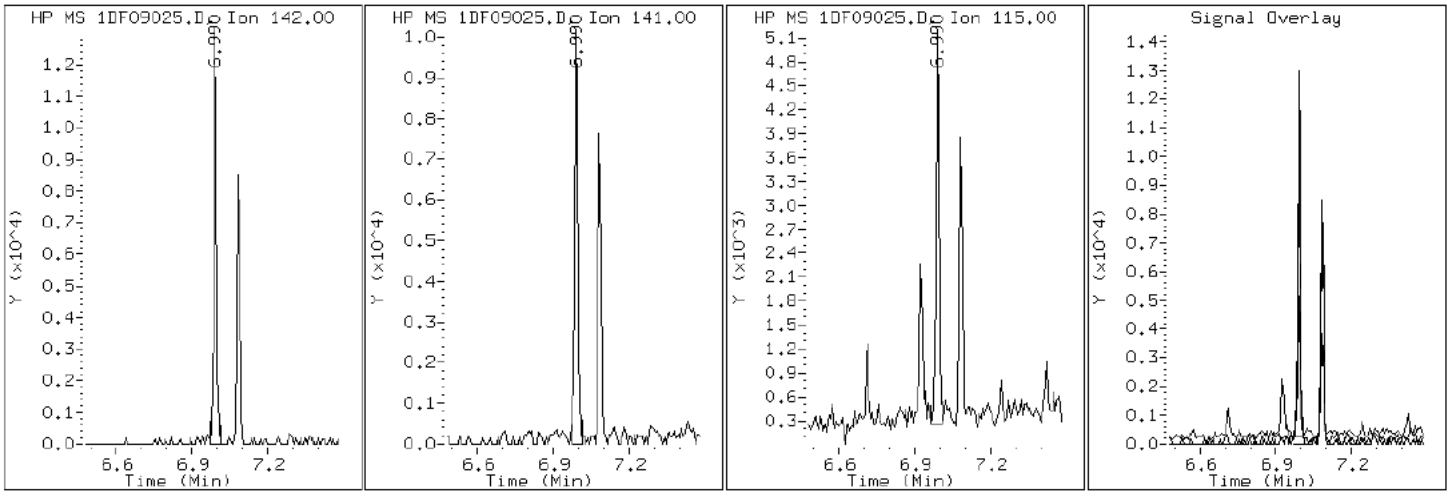
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

3 2-Methylnaphthalene



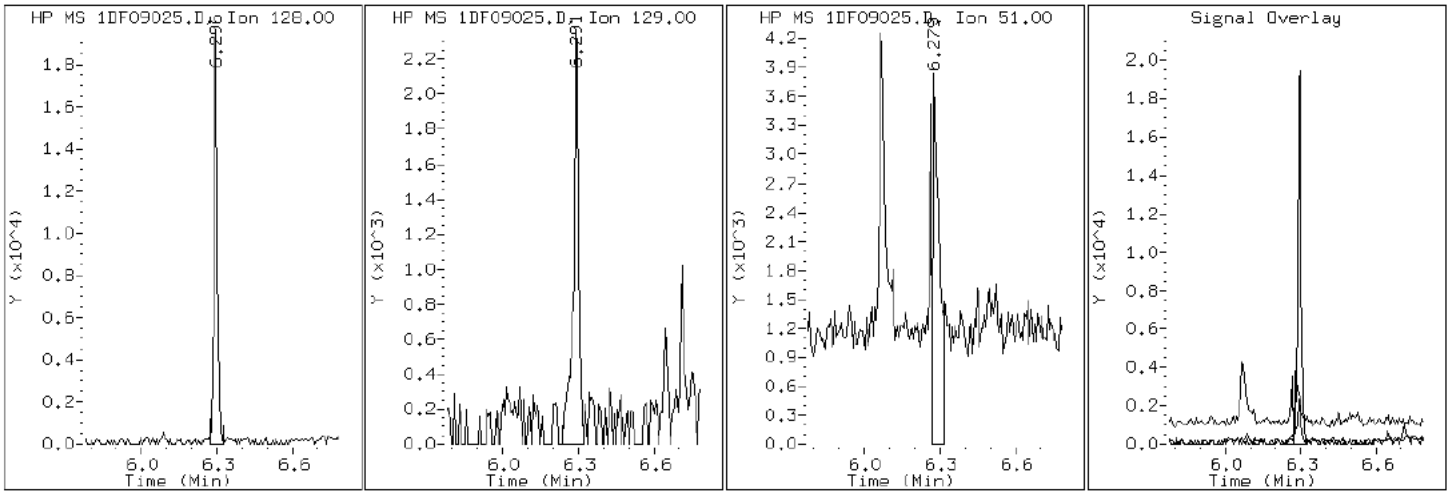
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

2 Naphthalene



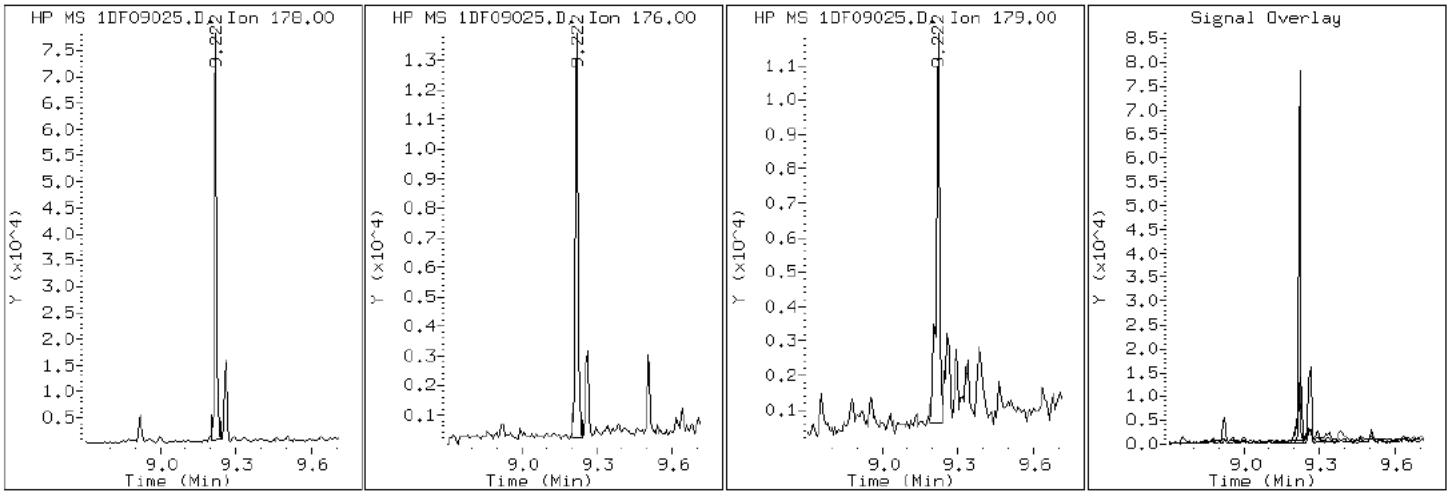
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

12 Phenanthrene



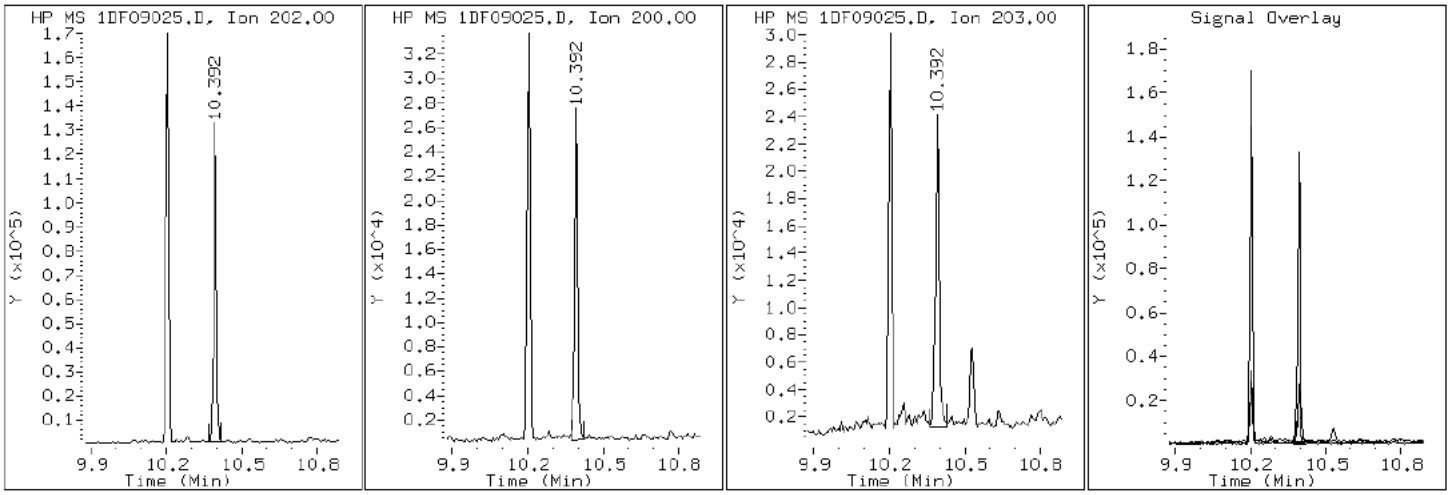
Data File: 1DF09025.D

Date: 09-JUN-2013 18:20

Client ID: CV1305B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-28-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09025.D
Inj. Date and Time: 09-JUN-2013 18:20
Instrument ID: BSMSD.i
Client ID: CV1305B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

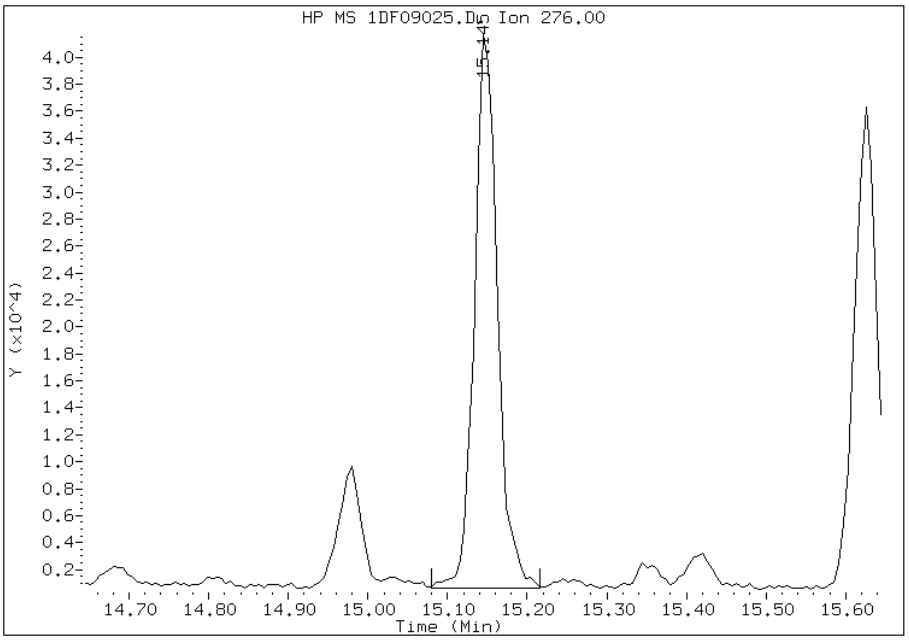
Processing Integration Results

RT: 15.14

Response: 81891

Amount: 2

Conc: 499



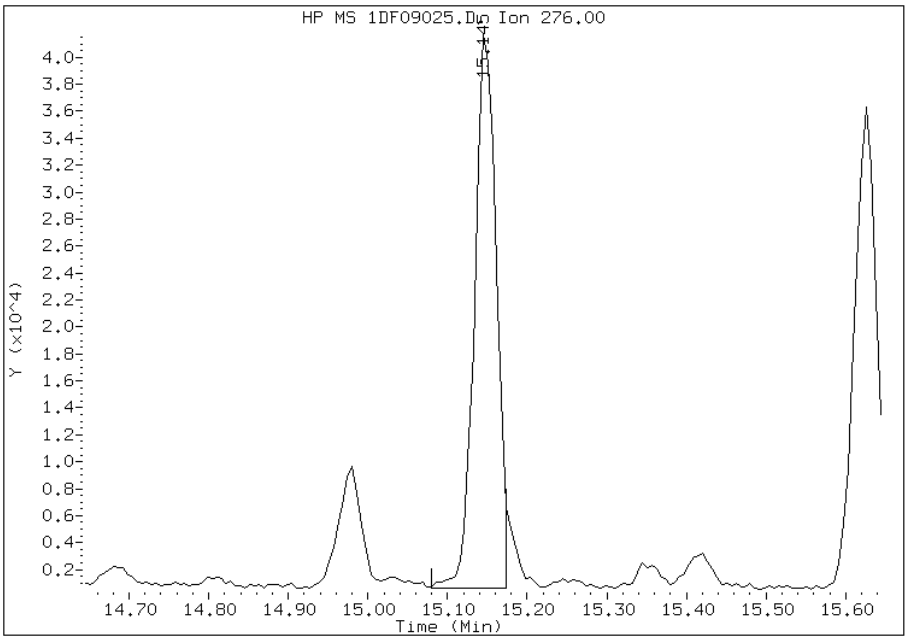
Manual Integration Results

RT: 15.14

Response: 78049

Amount: 2

Conc: 478



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 14:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0307A-CS | Lab Sample ID: 680-90852-29

Matrix: Solid | Lab File ID: 1DF09026.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:10

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 14.94(g) | Date Analyzed: 06/09/2013 18:43

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

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

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	93
208-96-8	Acenaphthylene	26	J	190	23
120-12-7	Anthracene	32	J	39	20
56-55-3	Benzo[a]anthracene	120		37	18
50-32-8	Benzo[a]pyrene	140		48	24
205-99-2	Benzo[b]fluoranthene	190		57	28
191-24-2	Benzo[g,h,i]perylene	60	J	93	20
207-08-9	Benzo[k]fluoranthene	60		37	17
218-01-9	Chrysene	170		42	21
53-70-3	Dibenz(a,h)anthracene	41	J	93	19
206-44-0	Fluoranthene	170		93	19
86-73-7	Fluorene	93	U	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	94		93	33
90-12-0	1-Methylnaphthalene	110	J	190	20
91-57-6	2-Methylnaphthalene	120	J	190	33
91-20-3	Naphthalene	82	J	190	20
85-01-8	Phenanthrene	170		37	18
129-00-0	Pyrene	150		93	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09026.D
Lab Smp Id: 680-90852-A-29-A Client Smp ID: FM0307A-CS
Inj Date : 09-JUN-2013 18:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-29-a
Misc Info : 680-90852-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 25
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	14.940	Weight Extracted
M	13.755	% 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	6.275	6.263	(1.000)	3074985	40.0000	
*	7 Acenaphthene-d10	164	7.944	7.932	(1.000)	1744075	40.0000	
*	11 Phenanthrene-d10	188	9.201	9.189	(1.000)	2794266	40.0000	
$	15 o-Terphenyl	230	9.506	9.500	(1.033)	72115	1.76162	550
*	19 Chrysene-d12	240	11.575	11.557	(1.000)	2675560	40.0000	
*	24 Perylene-d12	264	13.496	13.460	(1.000)	2133832	40.0000	
	2 Naphthalene	128	6.293	6.281	(1.003)	19987	0.26357	82
	3 2-Methylnaphthalene	142	6.992	6.980	(1.114)	18946	0.39240	120
	4 1-Methylnaphthalene	142	7.086	7.074	(1.129)	17180	0.34563	110
	6 Acenaphthylene	152	7.814	7.802	(0.984)	5990	0.08284	26
	10 Fluorene	166	8.408	8.402	(1.058)	1775	0.03420	11(Q)
	12 Phenanthrene	178	9.219	9.207	(1.002)	41949	0.55431	170
	13 Anthracene	178	9.260	9.248	(1.006)	7473	0.10177	32
	16 Fluoranthene	202	10.206	10.194	(1.109)	42008	0.54259	170

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.394	10.382	(0.898)	37314	0.47634	150
18 Benzo(a)anthracene	228	11.563	11.539	(0.999)	30542	0.38464	120
20 Chrysene	228	11.598	11.580	(1.002)	38325	0.53600	170
21 Benzo(b)fluoranthene	252	12.920	12.896	(0.957)	33496	0.62659	190
22 Benzo(k)fluoranthene	252	12.950	12.938	(0.960)	10845	0.19373	60(H)
23 Benzo(a)pyrene	252	13.384	13.361	(0.992)	18042	0.43939	140
25 Indeno(1,2,3-cd)pyrene	276	15.141	15.111	(1.122)	8519	0.30163	94(M)
26 Dibenzo(a,h)anthracene	278	15.170	15.147	(1.124)	3123	0.13321	41
27 Benzo(g,h,i)perylene	276	15.617	15.587	(1.157)	9345	0.19287	60

QC Flag Legend

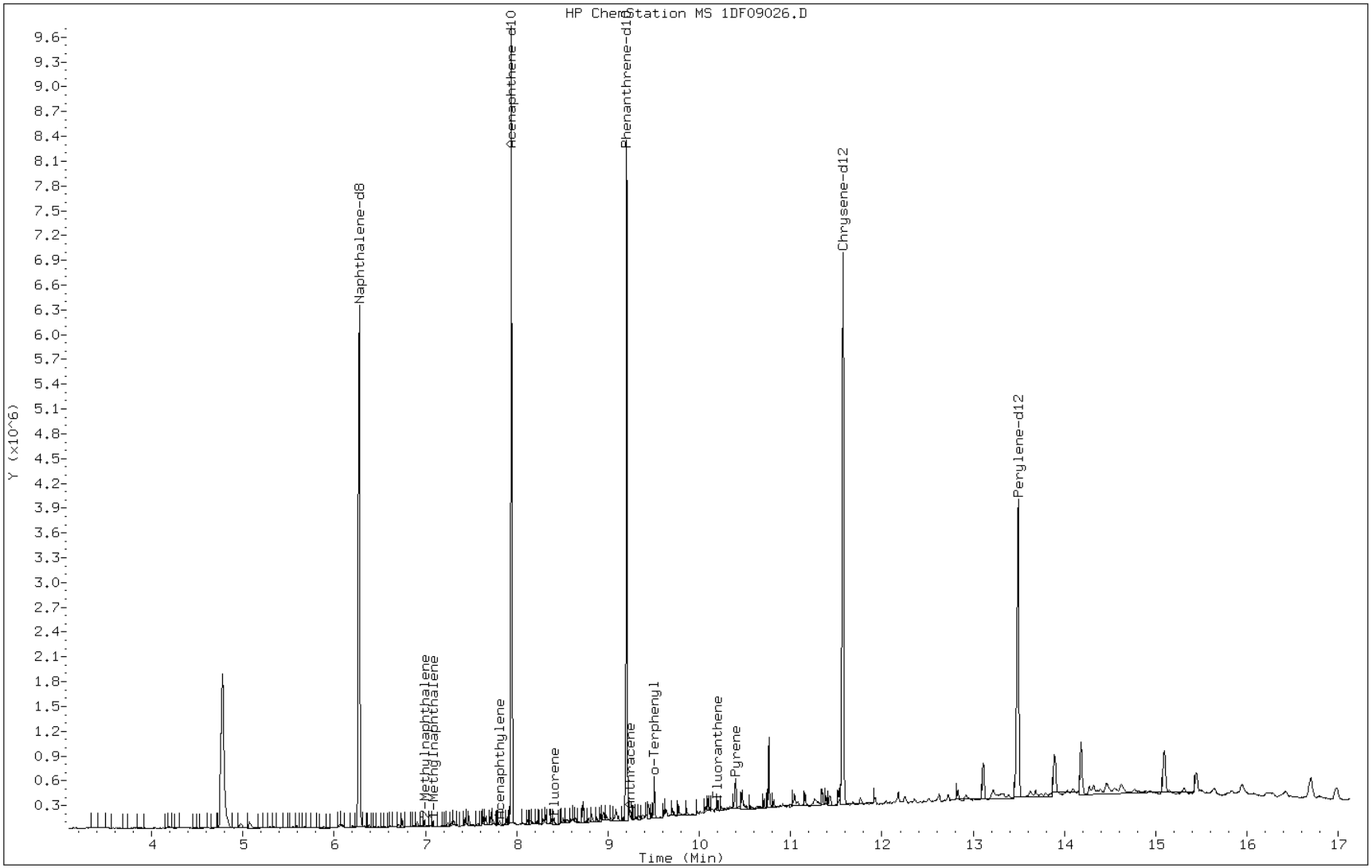
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC



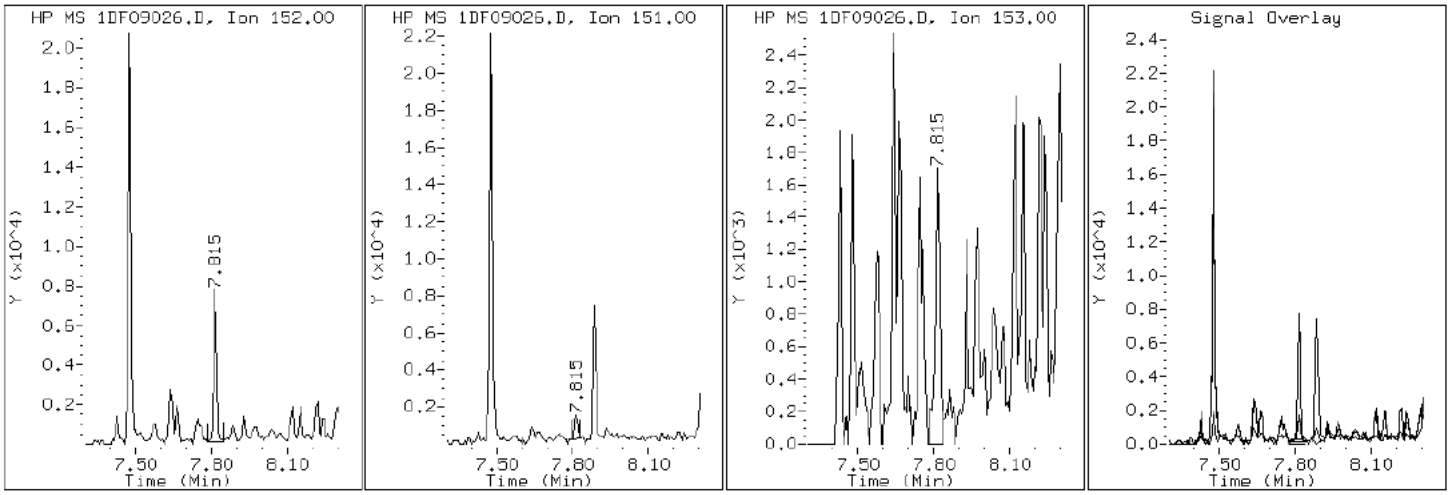
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

6 Acenaphthylene



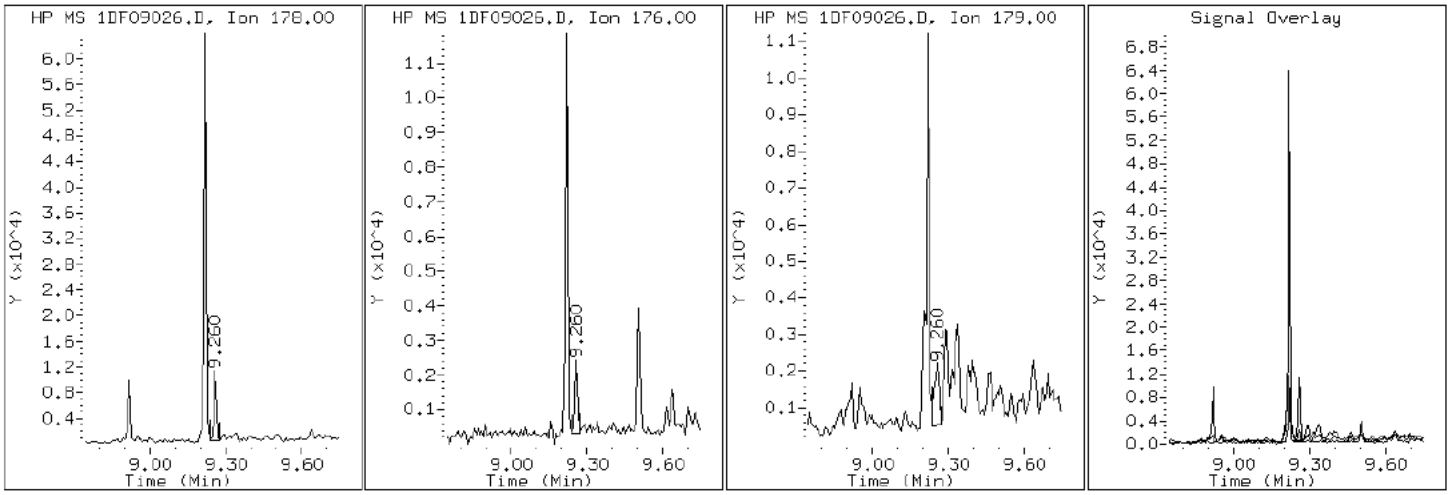
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

13 Anthracene



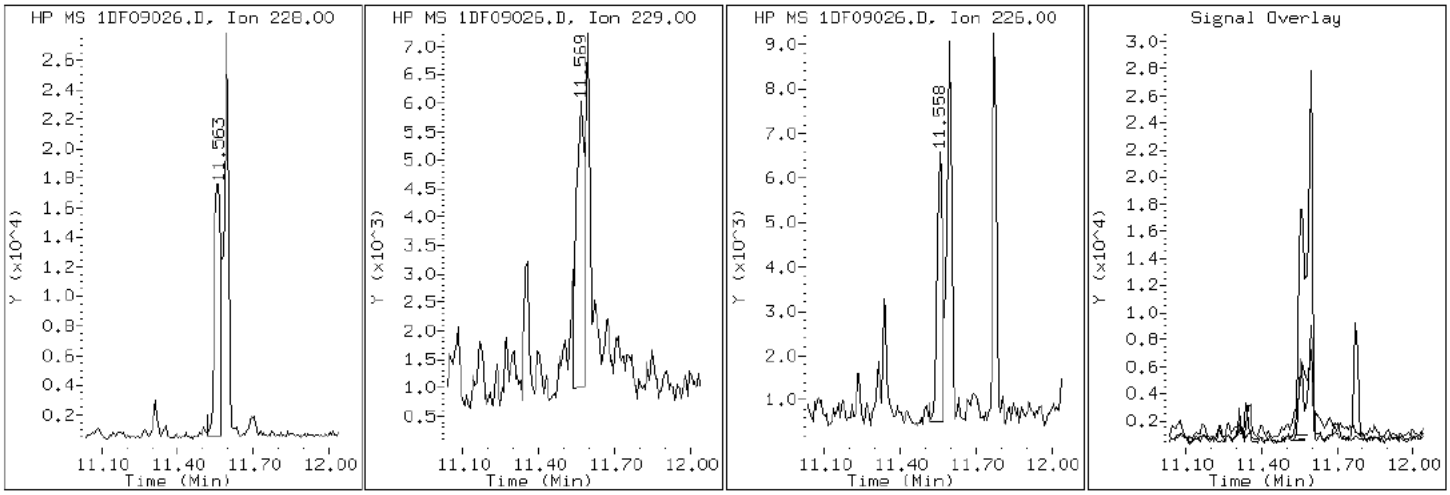
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

18 Benzo(a)anthracene



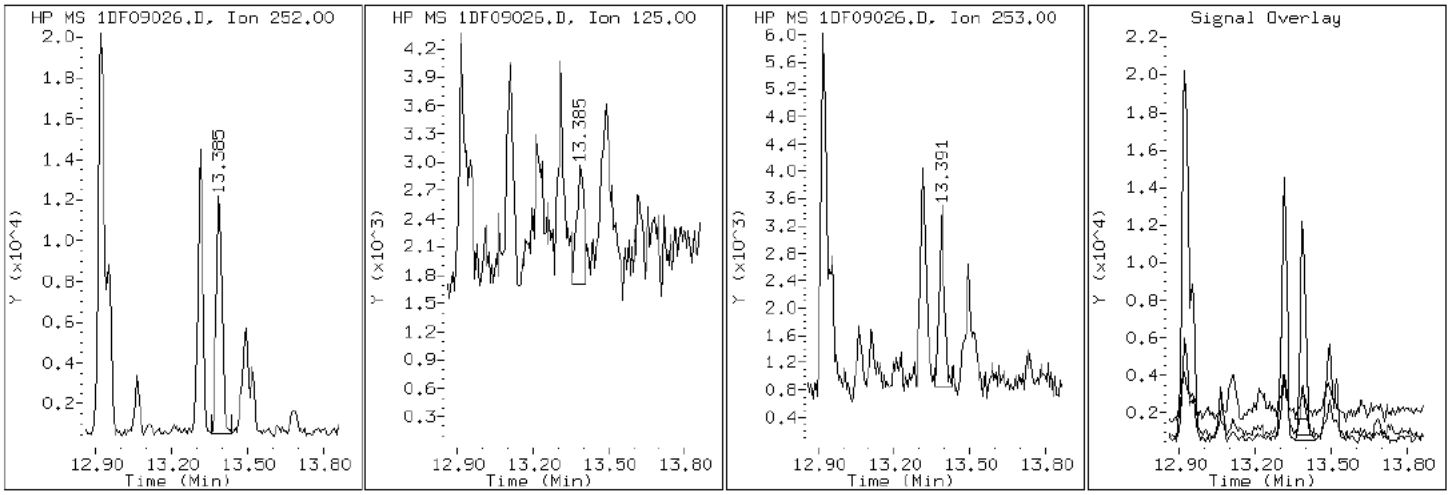
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

23 Benzo(a)pyrene



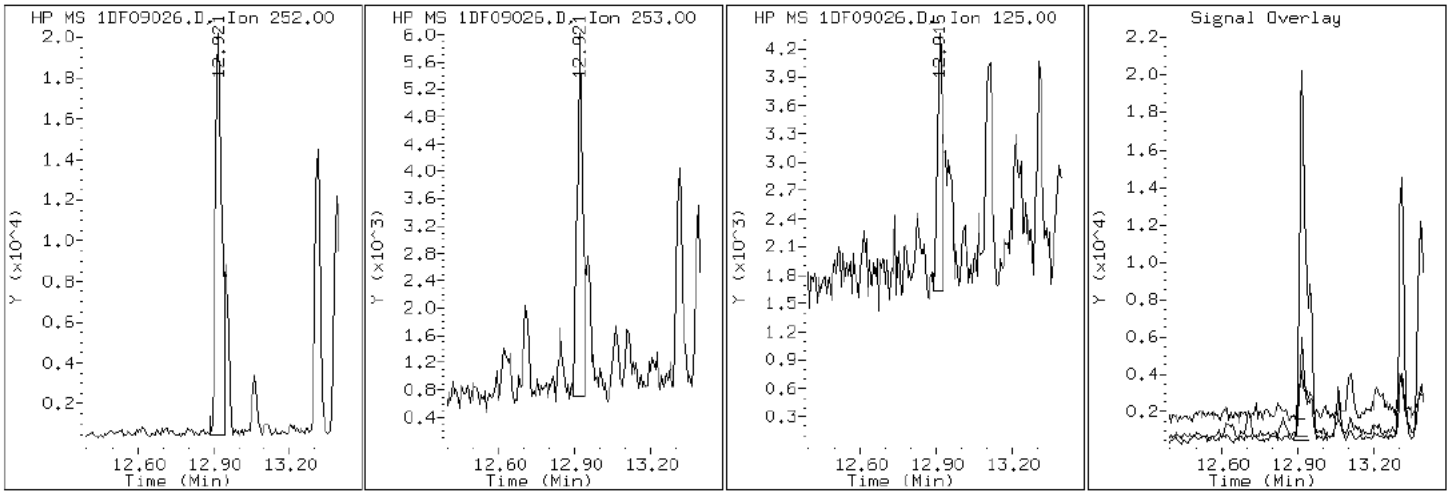
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

21 Benzo(b)fluoranthene



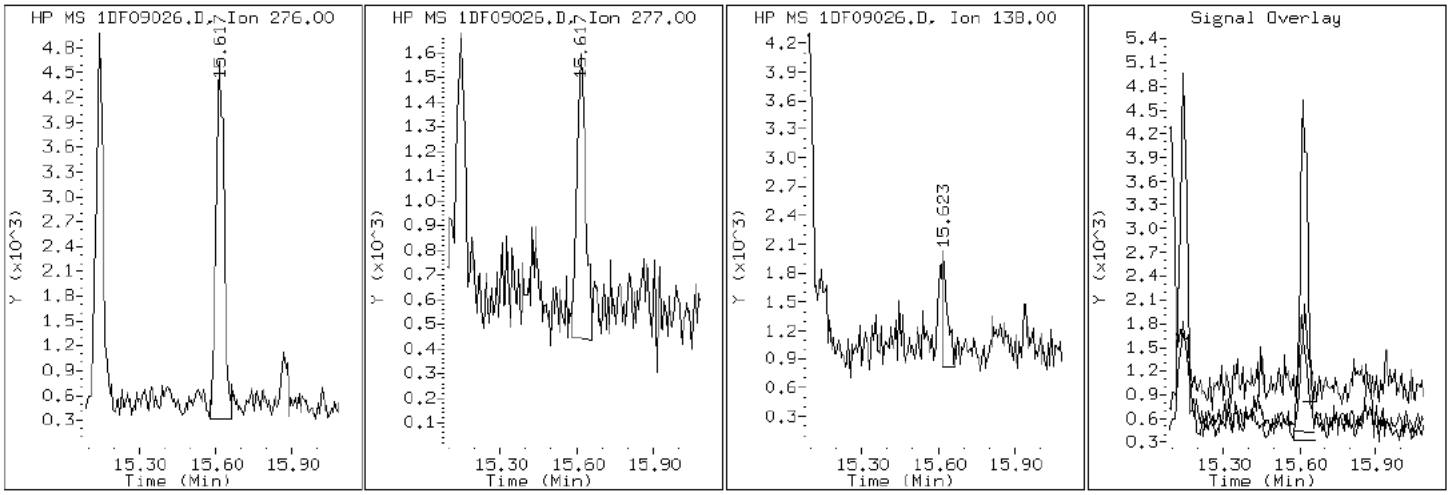
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

27 Benzo(g,h,i)perylene



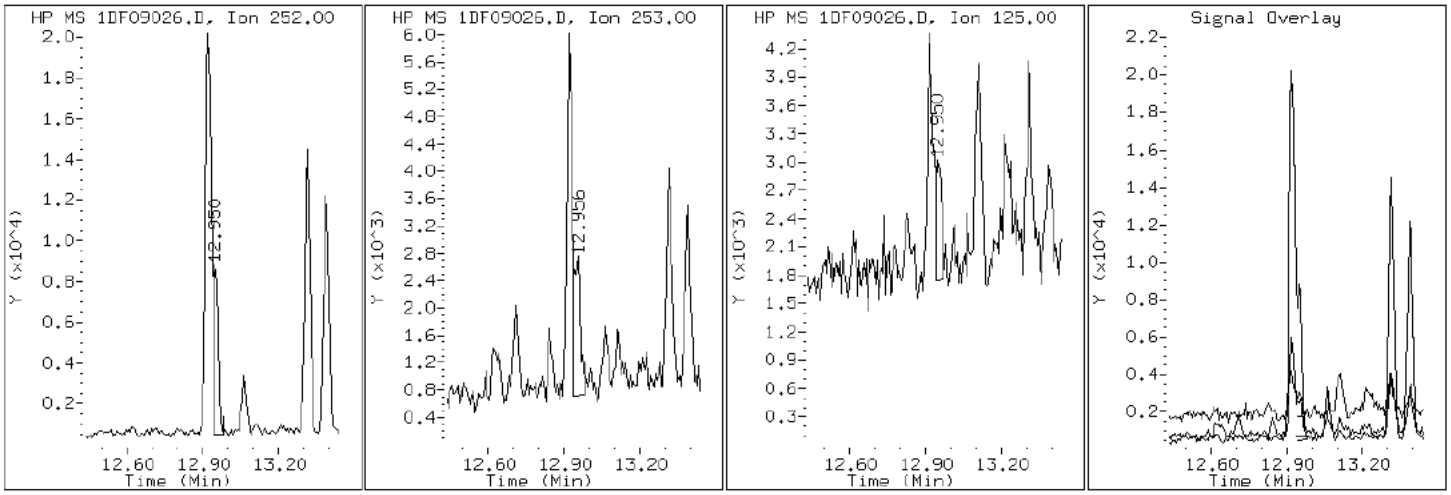
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

22 Benzo(k)fluoranthene



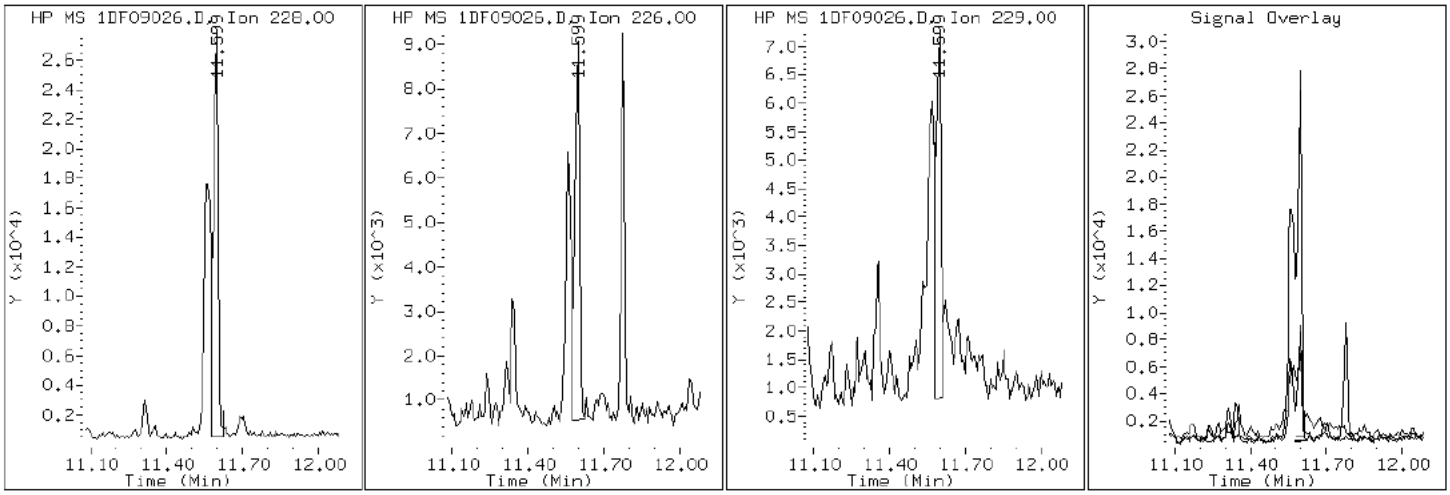
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

20 Chrysene



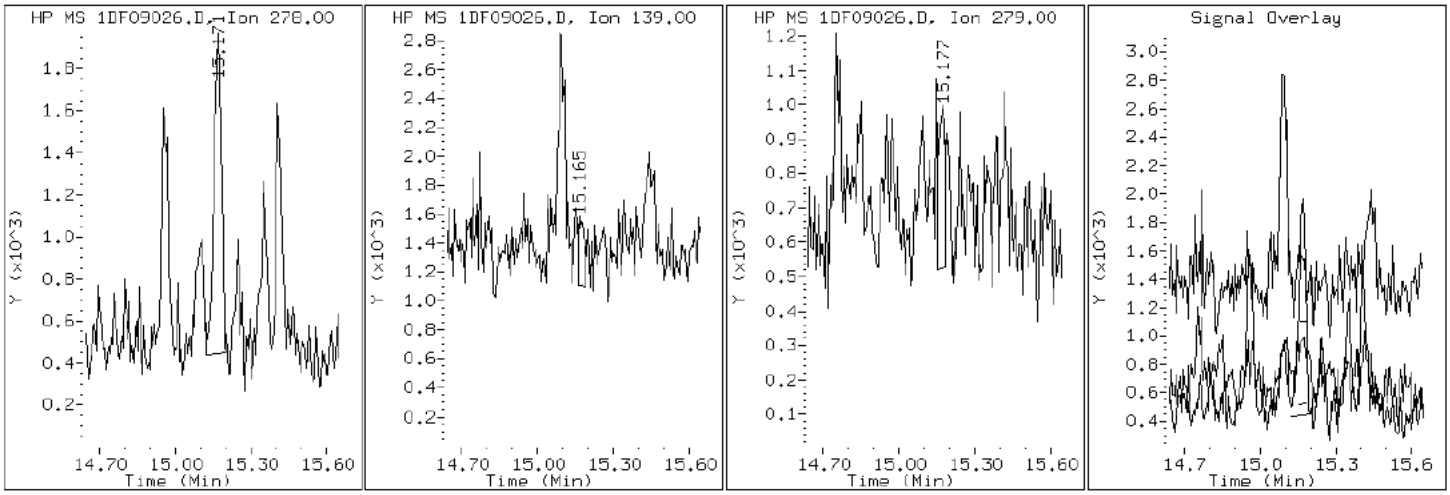
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

26 Dibenzo(a,h)anthracene



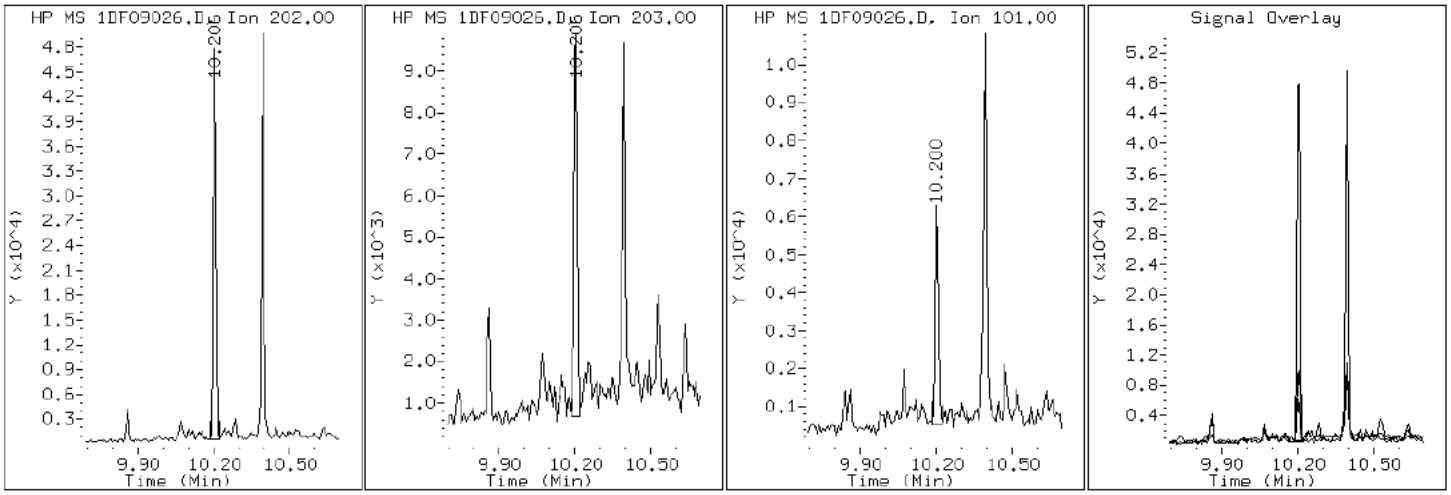
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

16 Fluoranthene



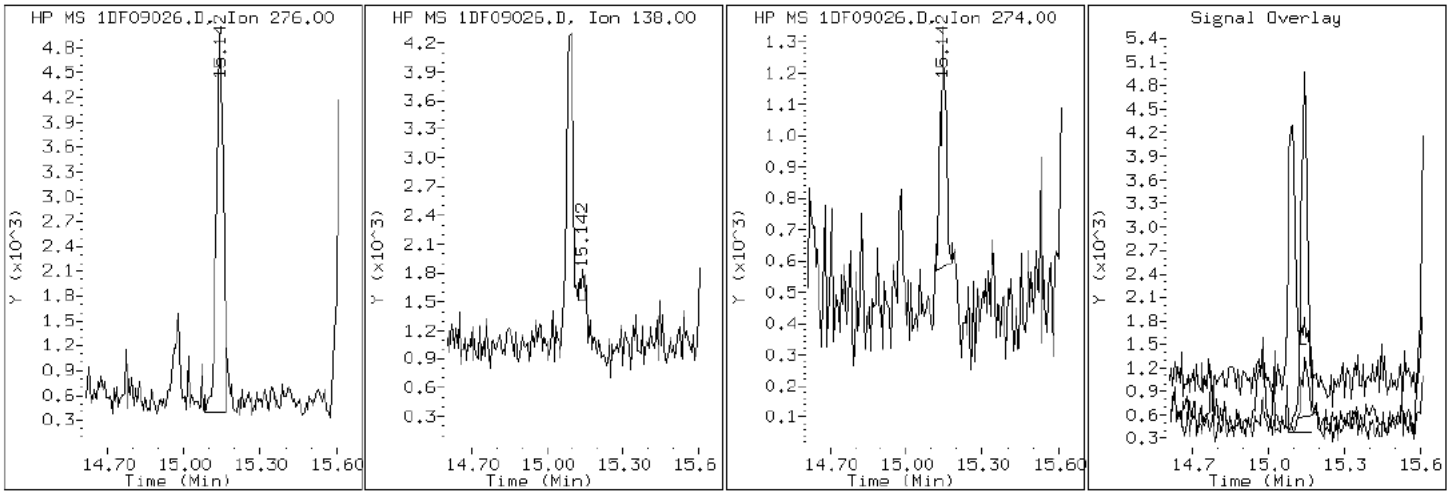
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

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



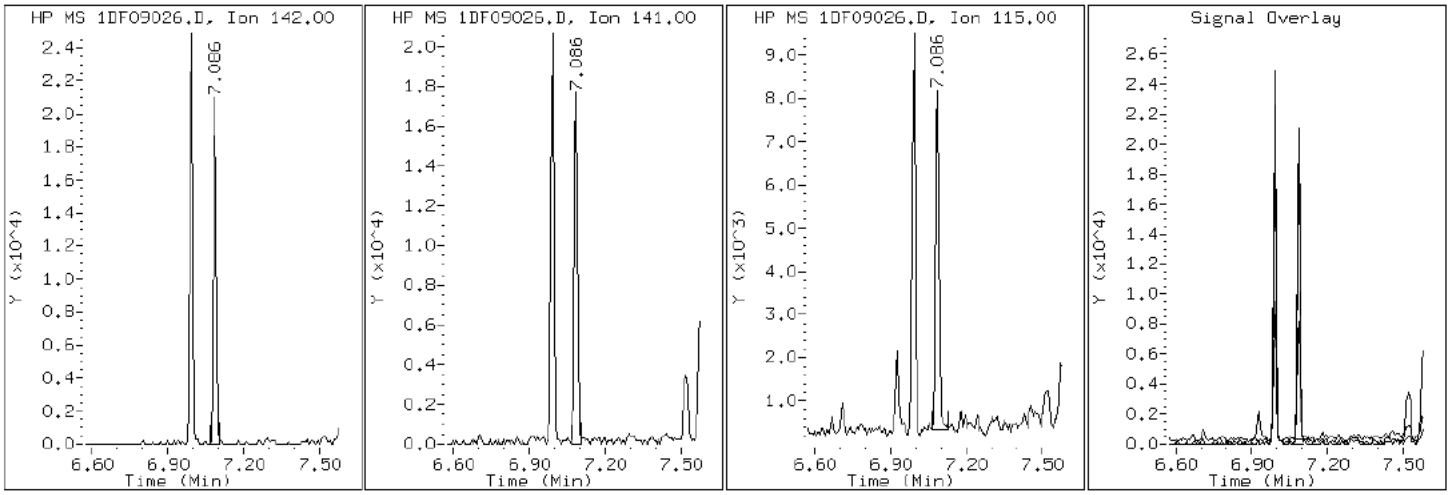
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

4 1-Methylnaphthalene



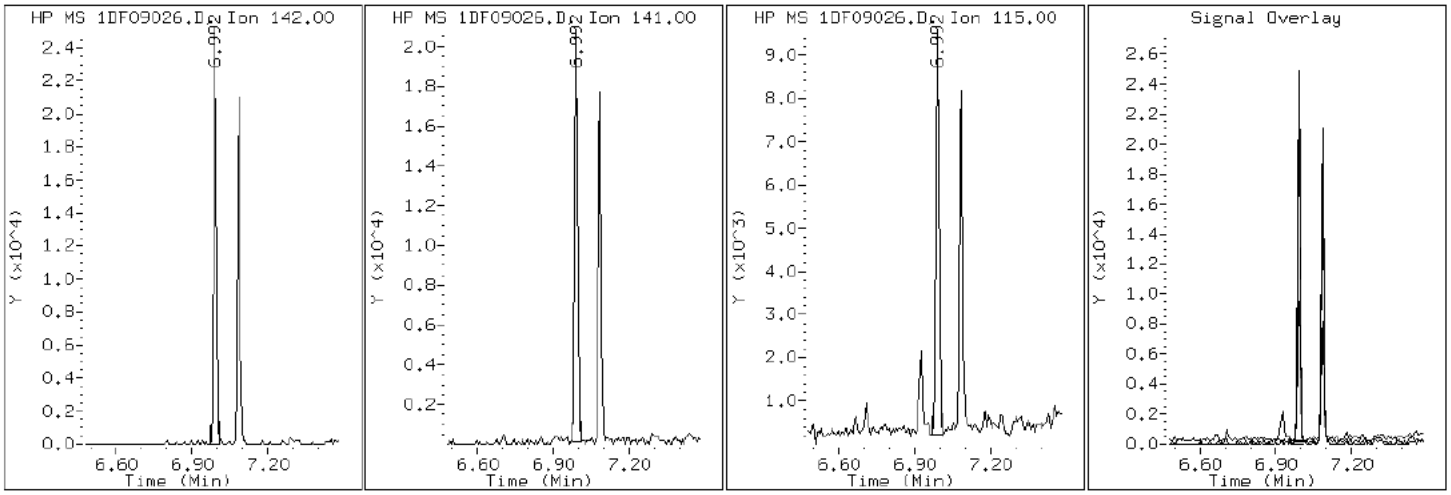
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

3 2-Methylnaphthalene



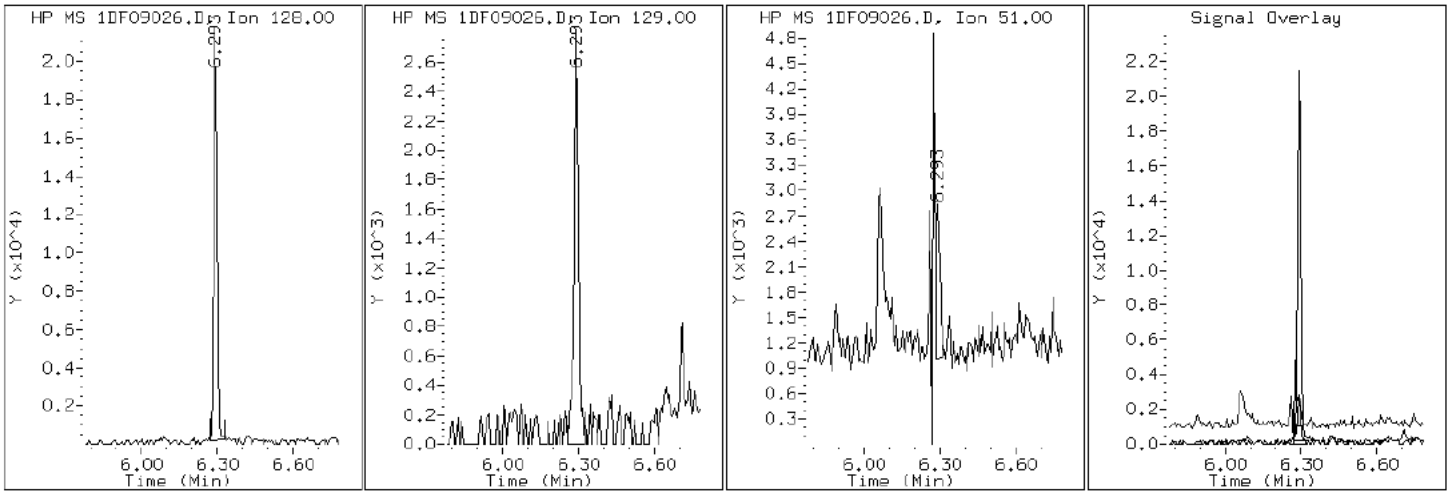
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

2 Naphthalene



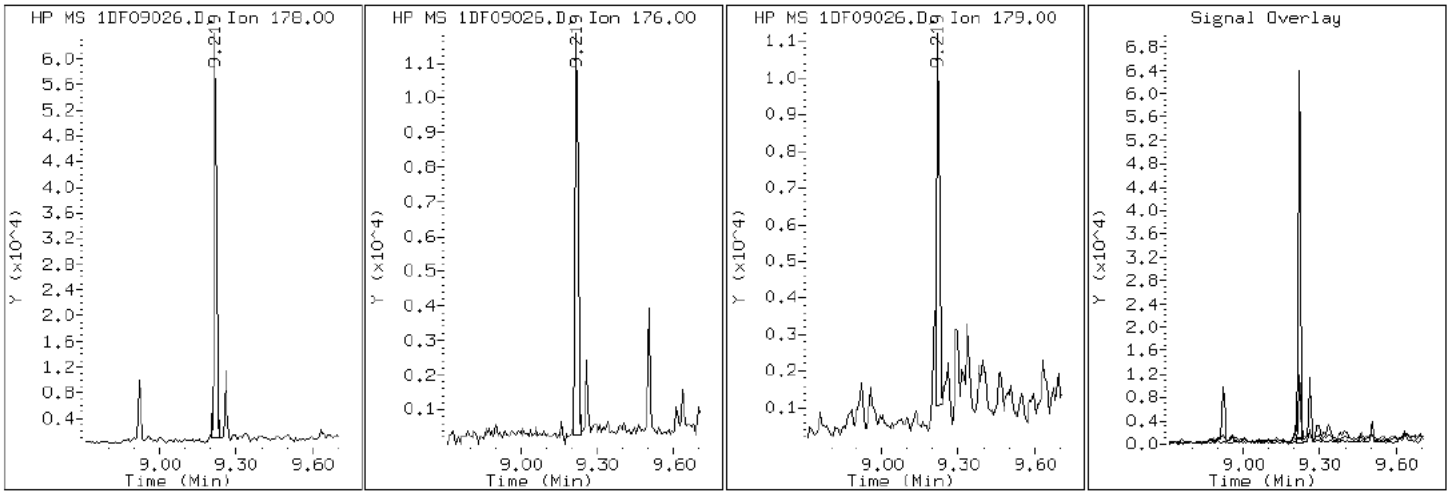
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

12 Phenanthrene



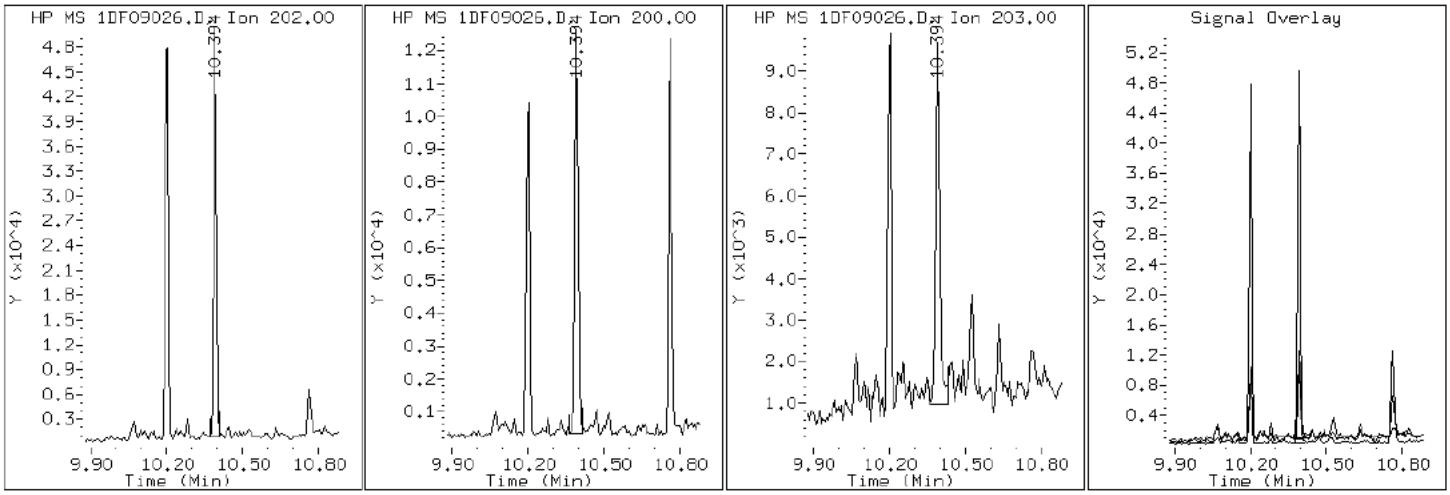
Data File: 1DF09026.D

Date: 09-JUN-2013 18:43

Client ID: FM0307A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-29-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09026.D
Inj. Date and Time: 09-JUN-2013 18:43
Instrument ID: BSMSD.i
Client ID: FM0307A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

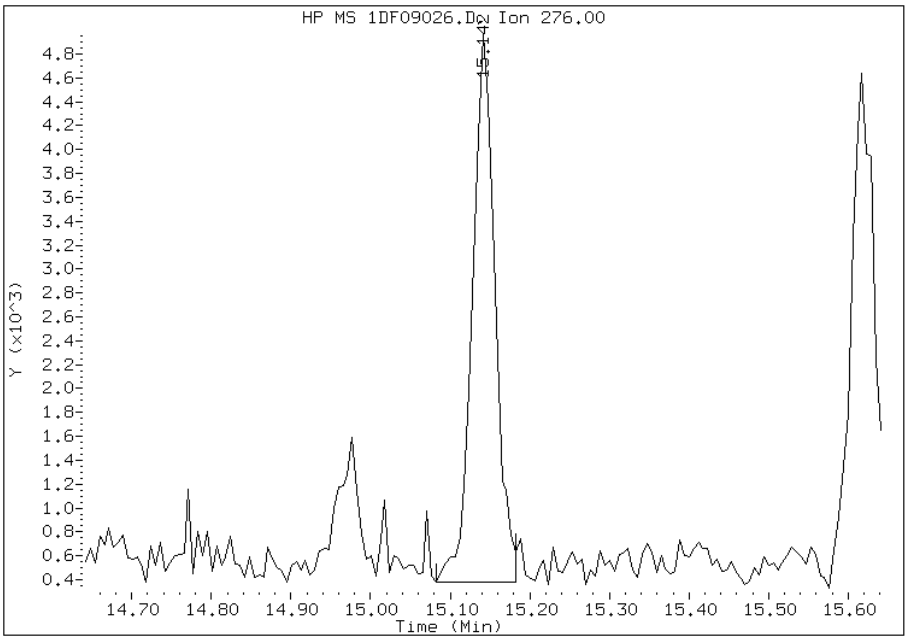
Processing Integration Results

RT: 15.14

Response: 9013

Amount: 0

Conc: 96



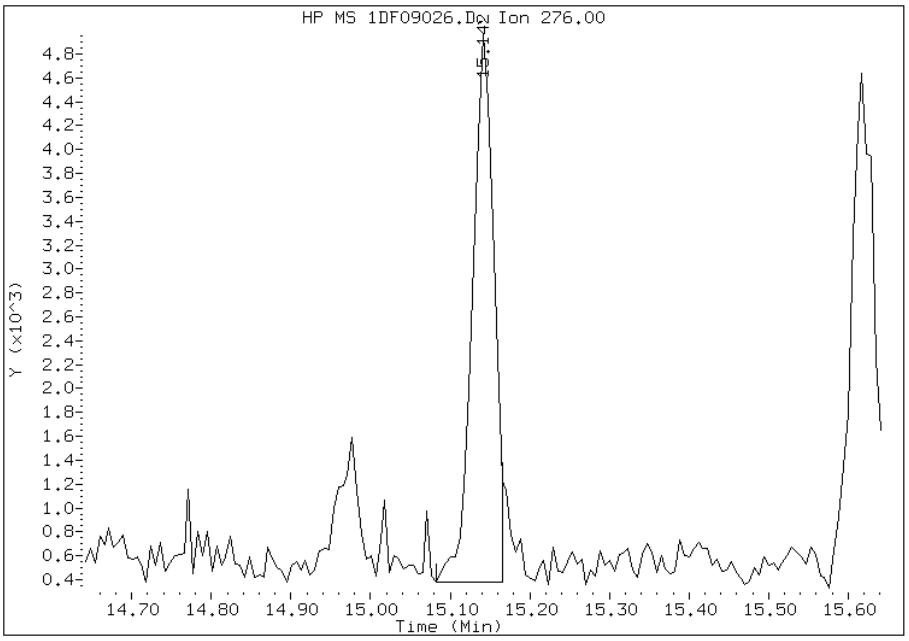
Manual Integration Results

RT: 15.14

Response: 8519

Amount: 0

Conc: 94



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 14:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0307B-CS | Lab Sample ID: 680-90852-30

Matrix: Solid | Lab File ID: 1DF09027.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:20

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.10(g) | Date Analyzed: 06/09/2013 19:05

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

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

% Moisture: 16.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	95
208-96-8	Acenaphthylene	25	J	190	24
120-12-7	Anthracene	59		40	20
56-55-3	Benzo[a]anthracene	420		38	19
50-32-8	Benzo[a]pyrene	410		50	25
205-99-2	Benzo[b]fluoranthene	720		58	29
191-24-2	Benzo[g,h,i]perylene	140		95	21
207-08-9	Benzo[k]fluoranthene	260		38	17
218-01-9	Chrysene	460		43	21
53-70-3	Dibenz(a,h)anthracene	70	J	95	20
206-44-0	Fluoranthene	530		95	19
86-73-7	Fluorene	23	J	95	20
193-39-5	Indeno[1,2,3-cd]pyrene	190		95	34
90-12-0	1-Methylnaphthalene	71	J	190	21
91-57-6	2-Methylnaphthalene	92	J	190	34
91-20-3	Naphthalene	71	J	190	21
85-01-8	Phenanthrene	280		38	19
129-00-0	Pyrene	420		95	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09027.D
Lab Smp Id: 680-90852-A-30-A Client Smp ID: FM0307B-CS
Inj Date : 09-JUN-2013 19:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-30-a
Misc Info : 680-90852-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 26
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	15.100	Weight Extracted
M	16.667	% 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	6.273	6.263	(1.000)	3198098	40.0000	
* 7	Acenaphthene-d10	164	7.941	7.932	(1.000)	1844358	40.0000	
* 11	Phenanthrene-d10	188	9.204	9.189	(1.000)	2902338	40.0000	
$ 15	o-Terphenyl	230	9.504	9.500	(1.033)	64934	1.52714	480
* 19	Chrysene-d12	240	11.578	11.557	(1.000)	2893786	40.0000	
* 24	Perylene-d12	264	13.494	13.460	(1.000)	2235860	40.0000	
2	Naphthalene	128	6.290	6.281	(1.003)	17730	0.22481	71
3	2-Methylnaphthalene	142	6.989	6.980	(1.114)	14545	0.28965	92
4	1-Methylnaphthalene	142	7.083	7.074	(1.129)	11575	0.22390	71
6	Acenaphthylene	152	7.812	7.802	(0.984)	6058	0.07922	25
10	Fluorene	166	8.411	8.402	(1.059)	4042	0.07364	23
12	Phenanthrene	178	9.216	9.207	(1.001)	69348	0.88224	280
13	Anthracene	178	9.257	9.248	(1.006)	14241	0.18672	59
16	Fluoranthene	202	10.203	10.194	(1.109)	133211	1.65653	530

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.391	10.382	(0.897)	112135	1.32355	420
18 Benzo(a)anthracene	228	11.561	11.539	(0.998)	112643	1.31161	420
20 Chrysene	228	11.596	11.580	(1.002)	111728	1.44474	460
21 Benzo(b)fluoranthene	252	12.918	12.896	(0.957)	127312	2.27289	720
22 Benzo(k)fluoranthene	252	12.953	12.938	(0.960)	48406	0.82524	260
23 Benzo(a)pyrene	252	13.388	13.361	(0.992)	66208	1.29242	410
25 Indeno(1,2,3-cd)pyrene	276	15.139	15.111	(1.122)	25663	0.58961	190(M)
26 Dibenzo(a,h)anthracene	278	15.168	15.147	(1.124)	7893	0.21968	70
27 Benzo(g,h,i)perylene	276	15.620	15.587	(1.158)	22576	0.44469	140

QC Flag Legend

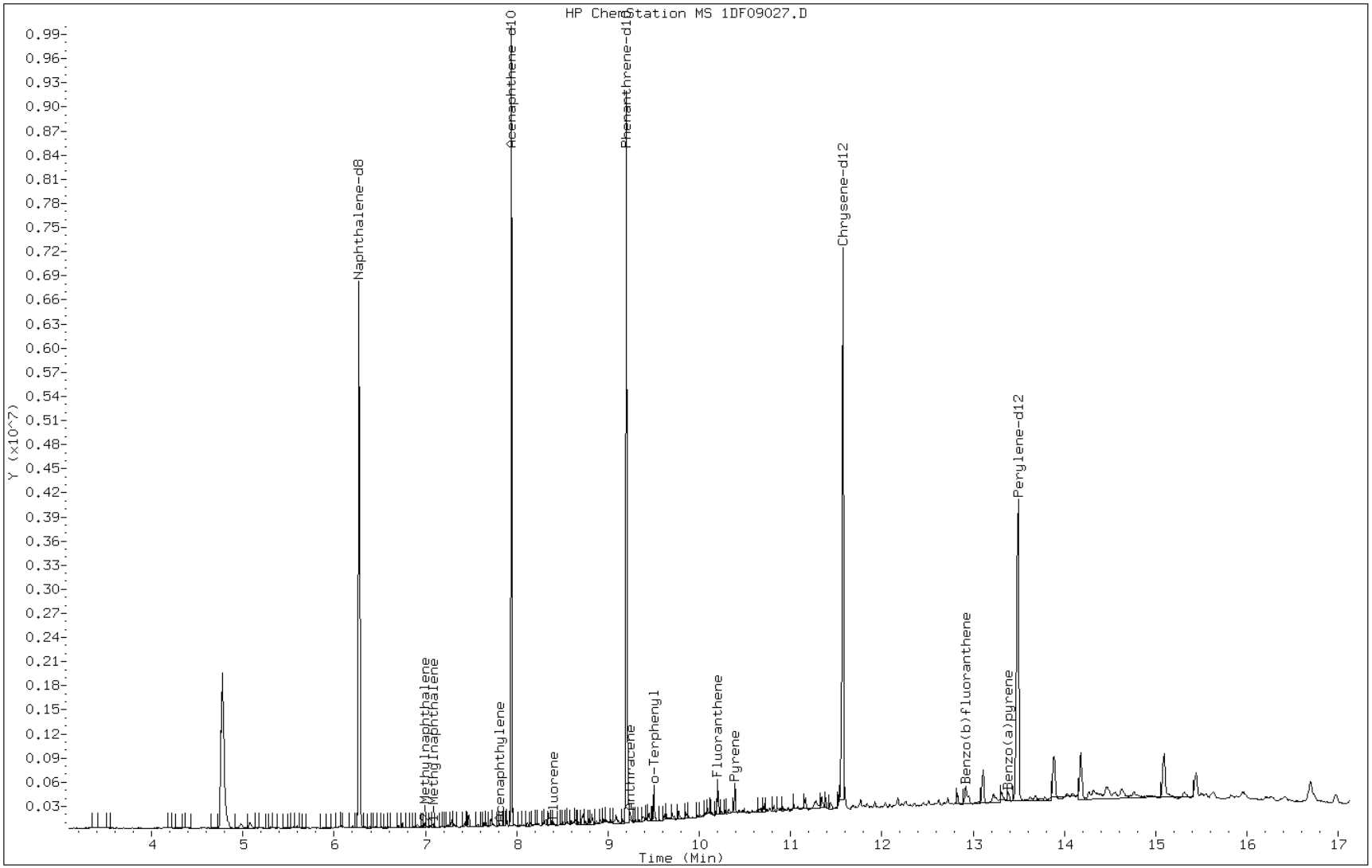
M - Compound response manually integrated.

Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC



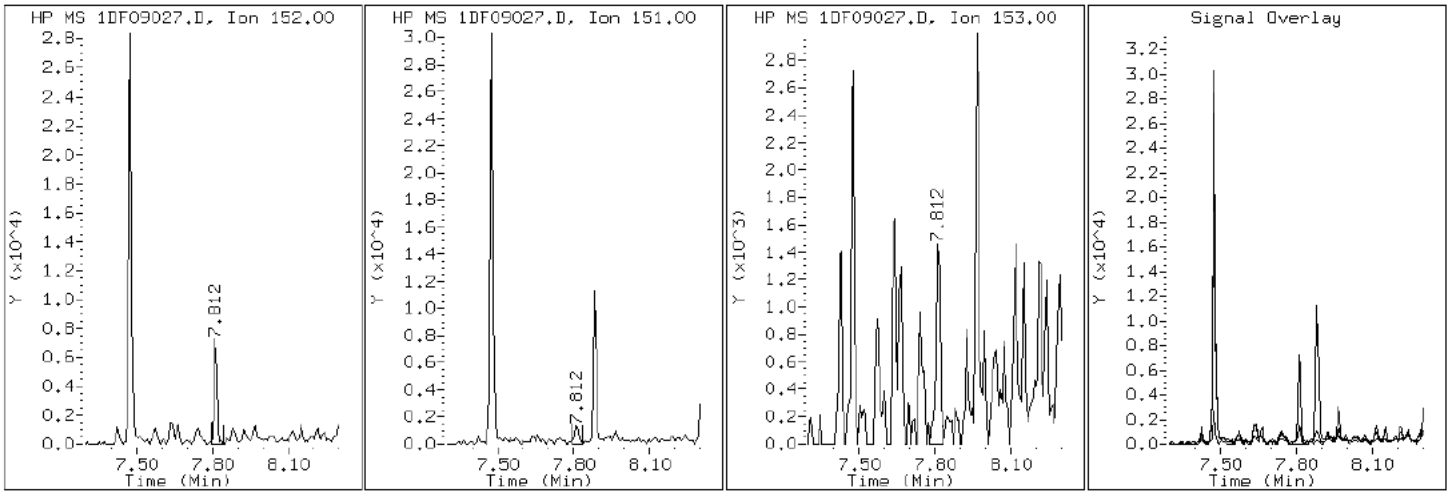
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

6 Acenaphthylene



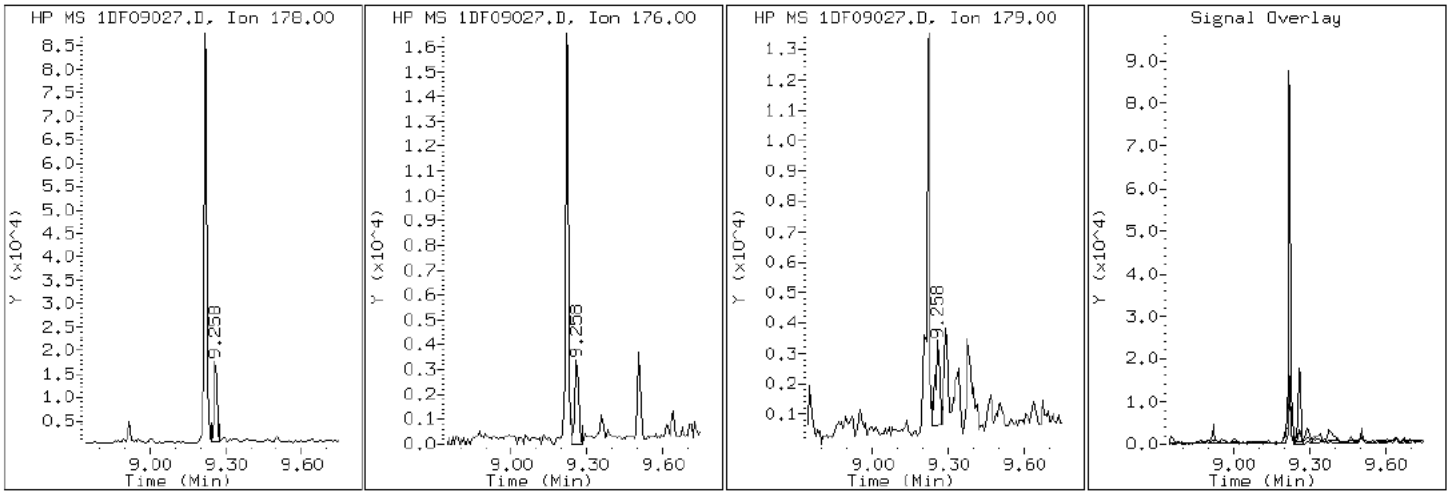
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

13 Anthracene



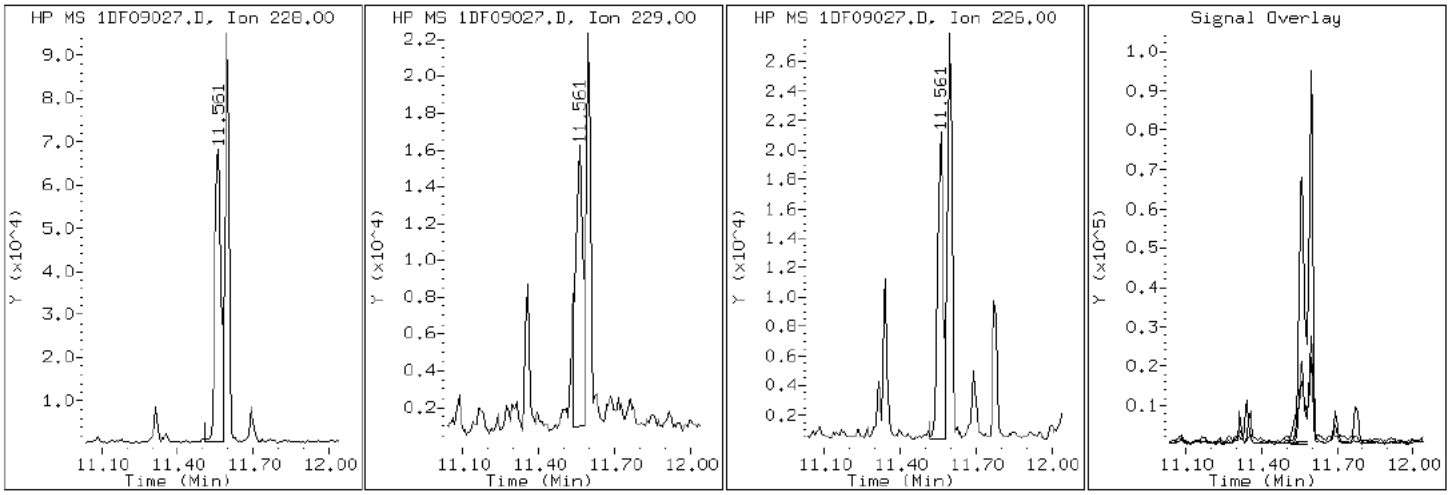
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

18 Benzo(a)anthracene



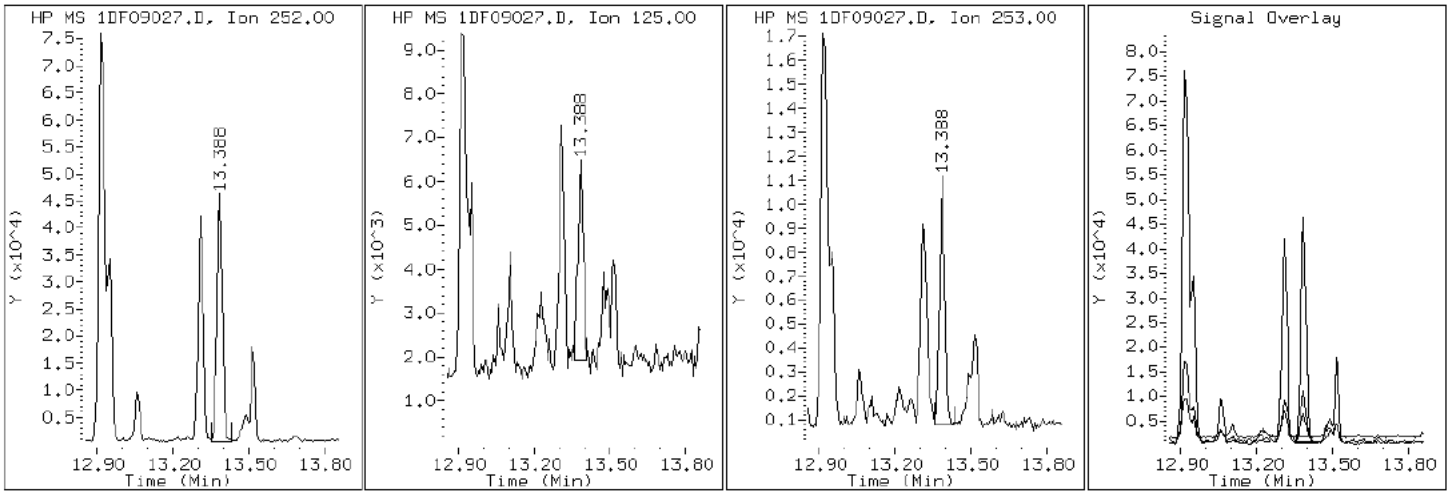
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

23 Benzo(a)pyrene



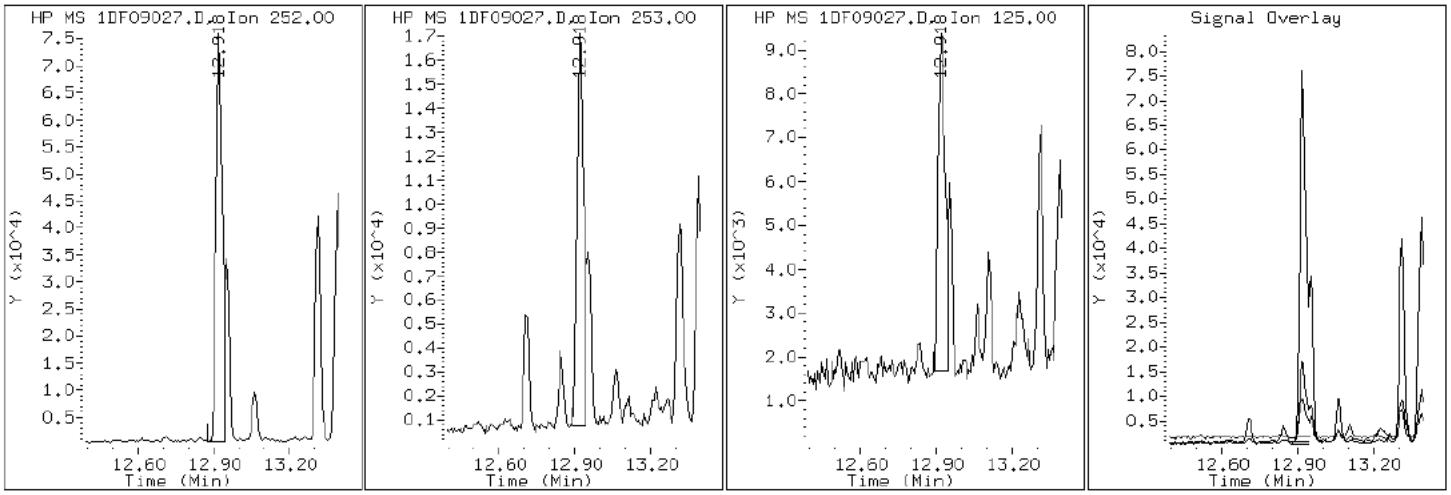
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

21 Benzo(b)fluoranthene



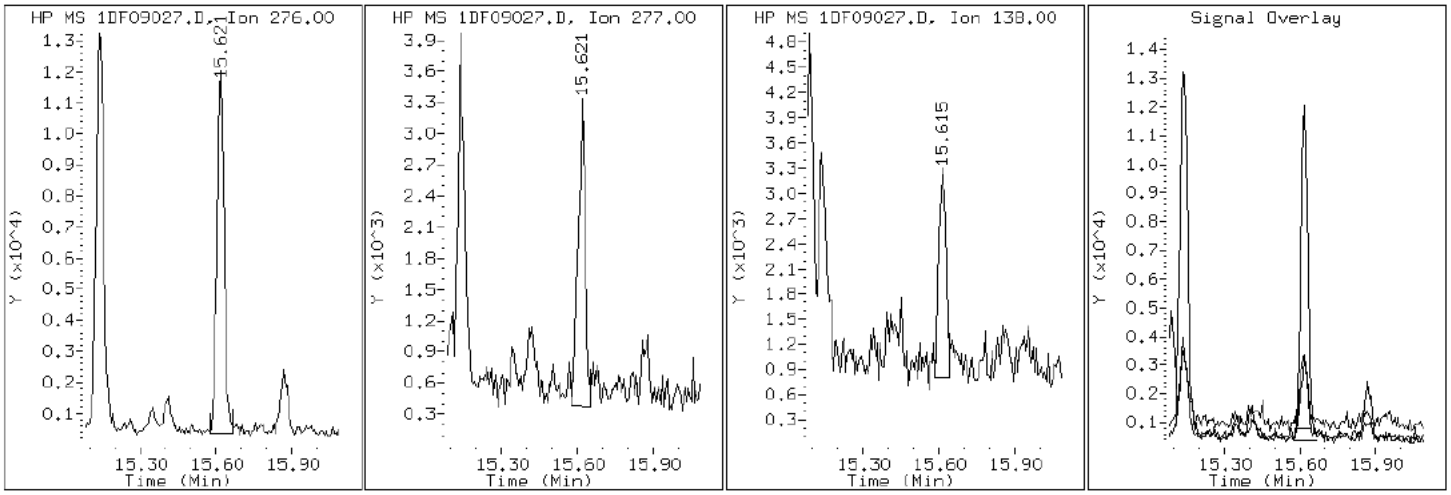
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

27 Benzo(g,h,i)perylene



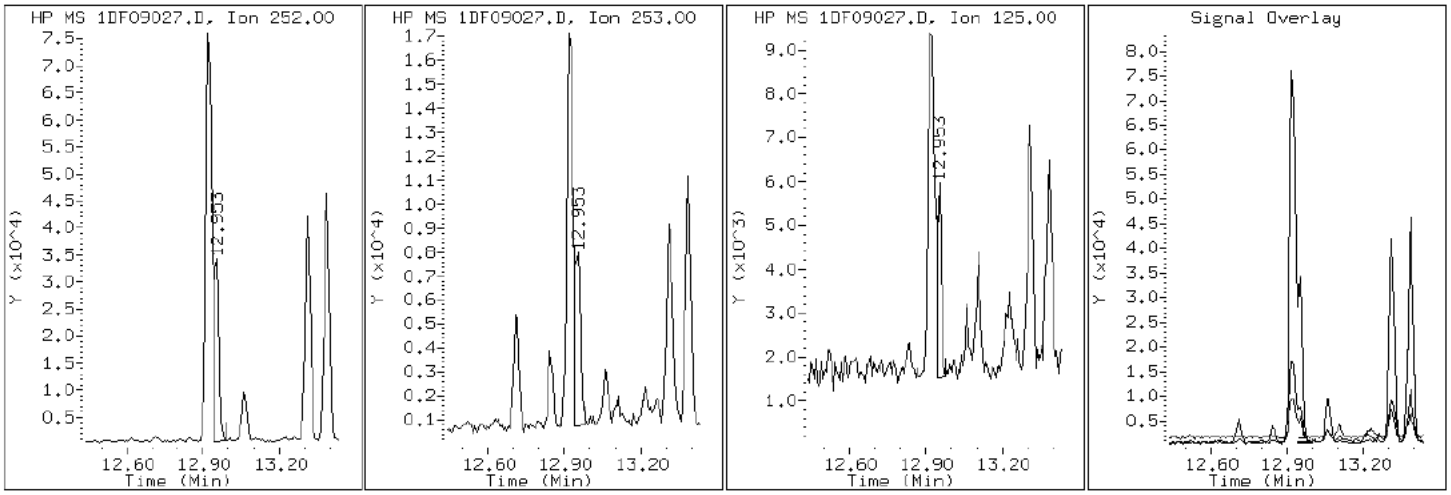
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

22 Benzo(k)fluoranthene



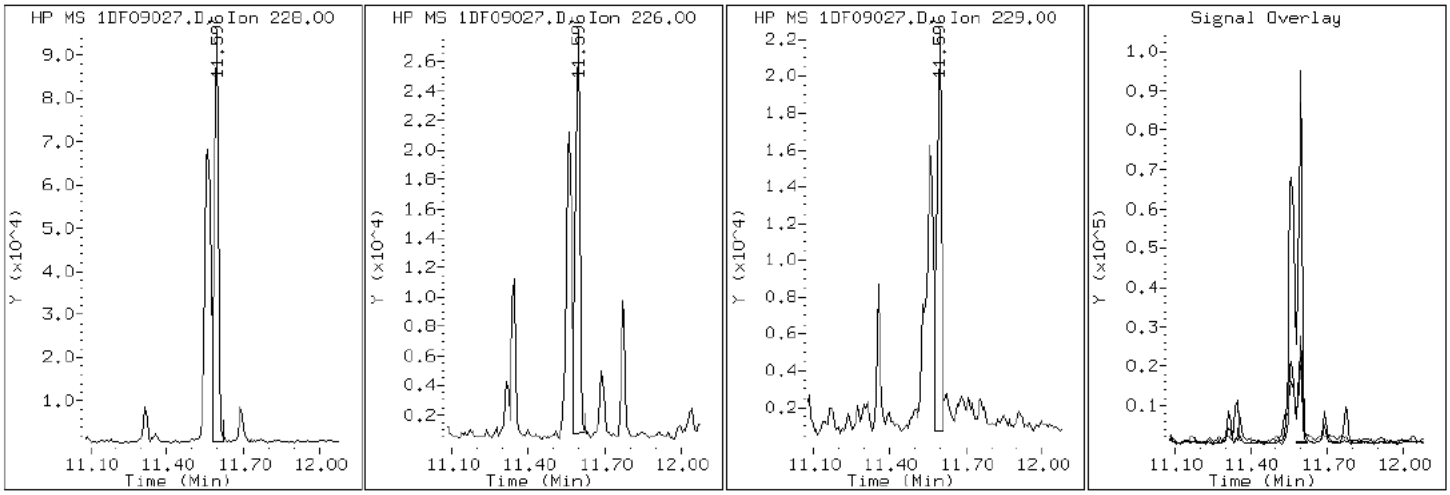
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

20 Chrysene



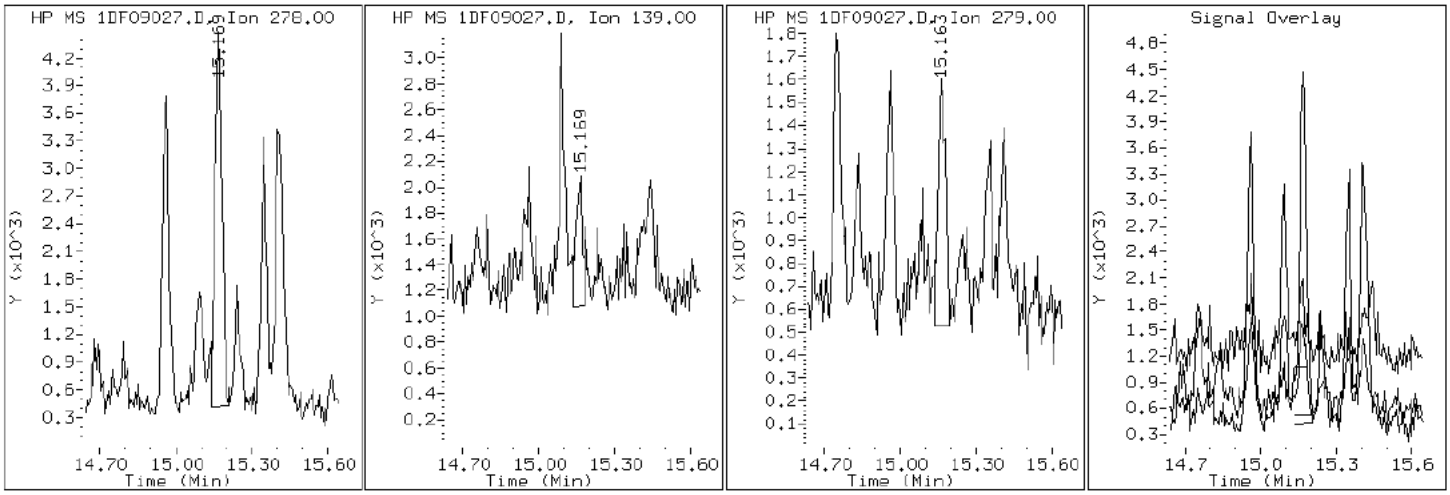
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

26 Dibenzo(a,h)anthracene



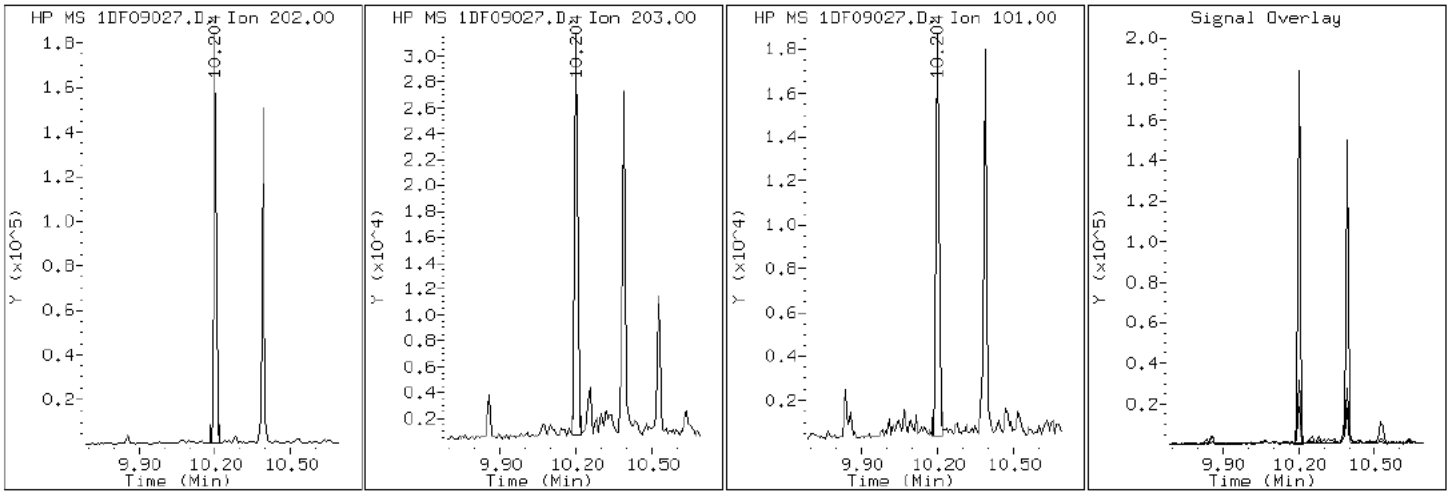
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

16 Fluoranthene



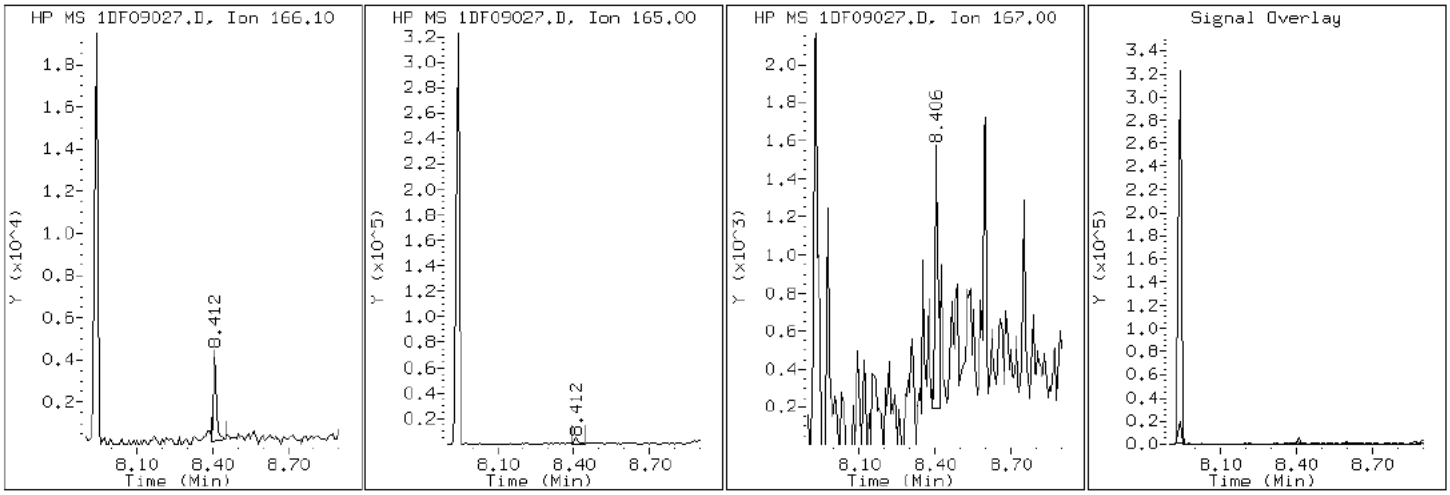
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

10 Fluorene



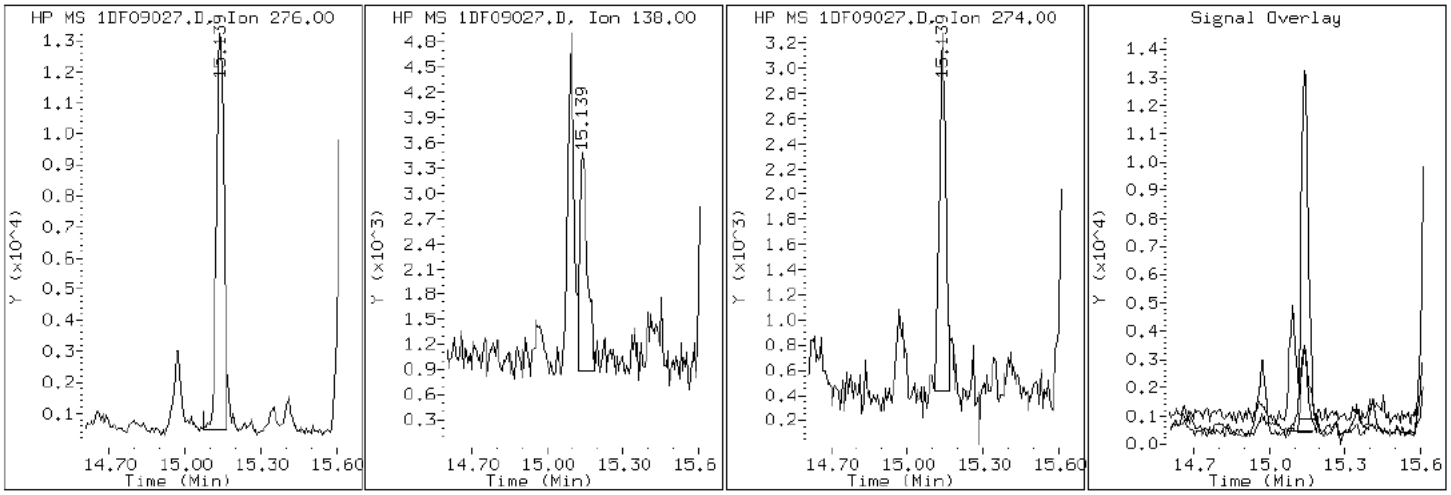
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

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



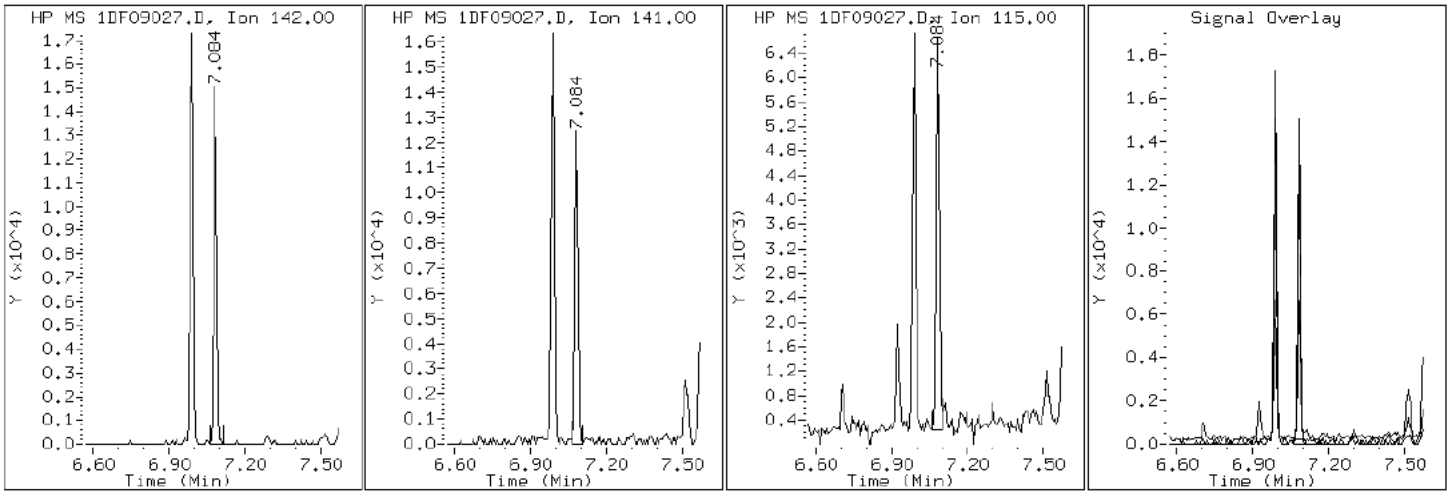
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

4 1-Methylnaphthalene



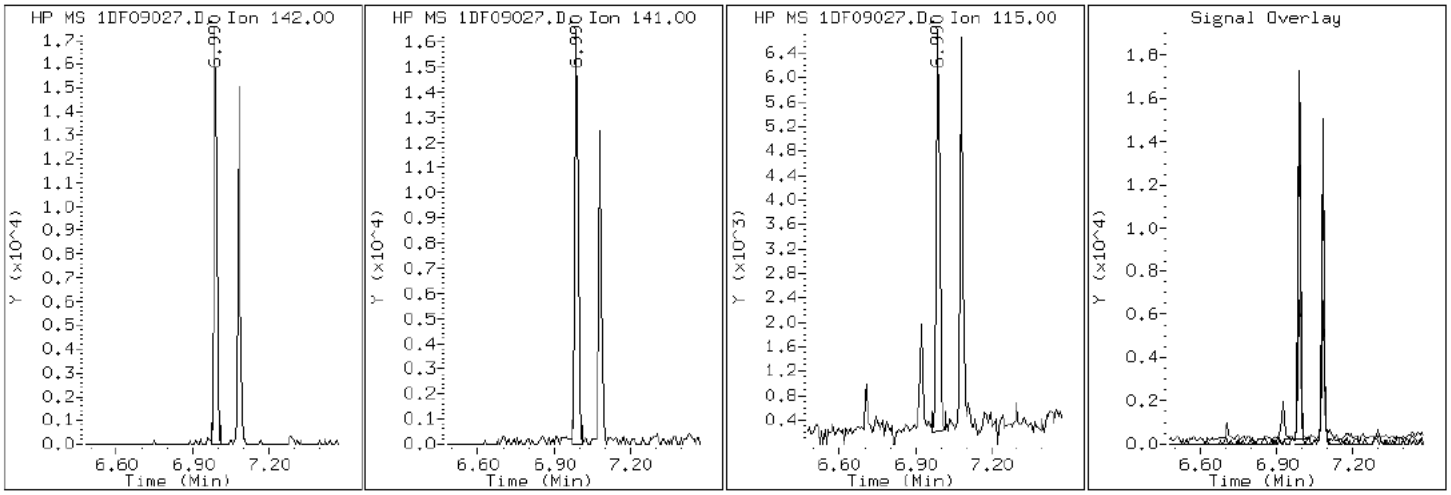
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

3 2-Methylnaphthalene



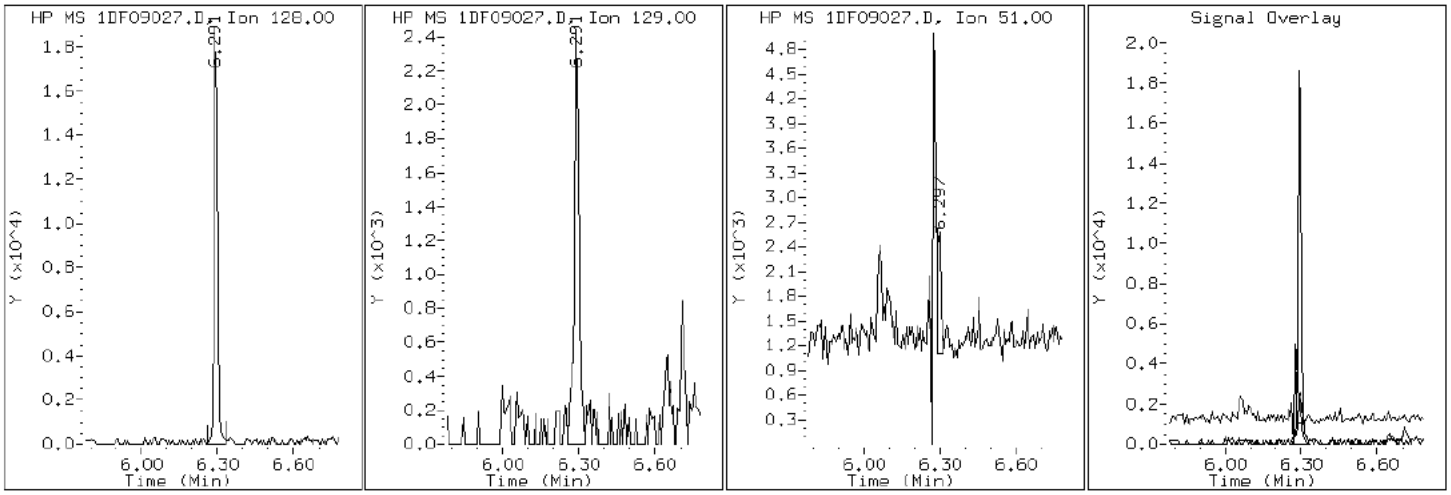
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

2 Naphthalene



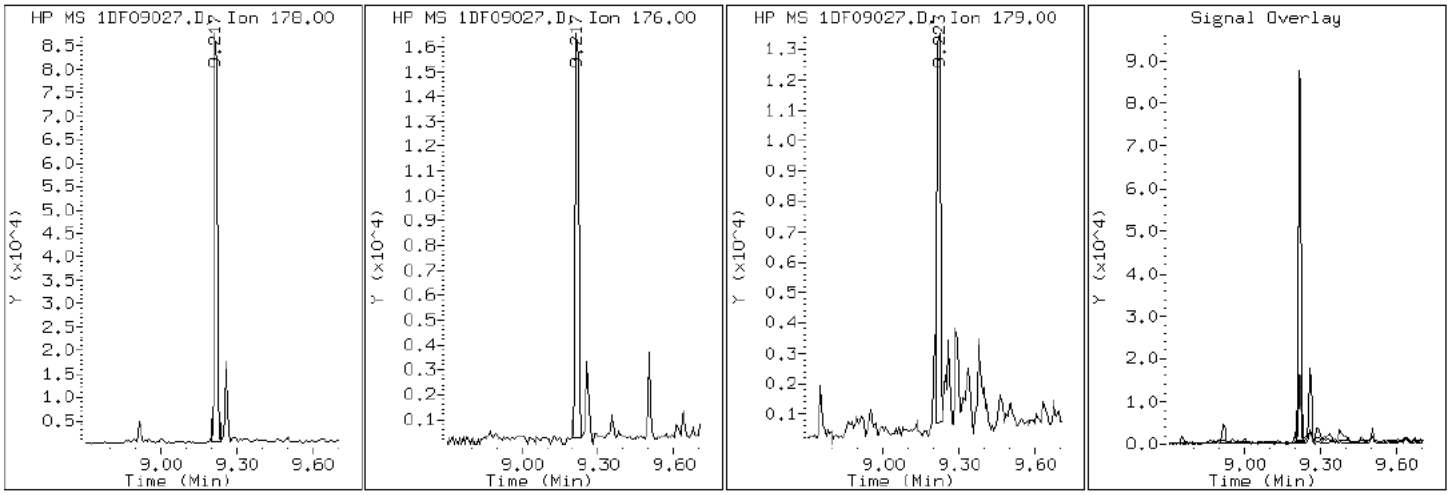
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

12 Phenanthrene



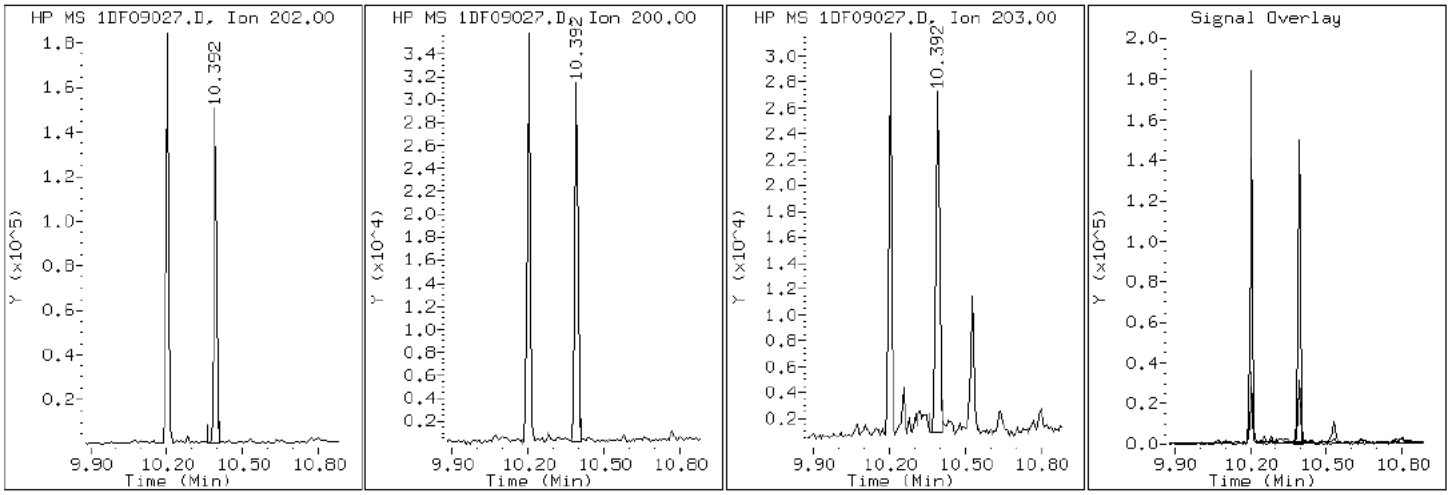
Data File: 1DF09027.D

Date: 09-JUN-2013 19:05

Client ID: FM0307B-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-30-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09027.D
Inj. Date and Time: 09-JUN-2013 19:05
Instrument ID: BSMSD.i
Client ID: FM0307B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

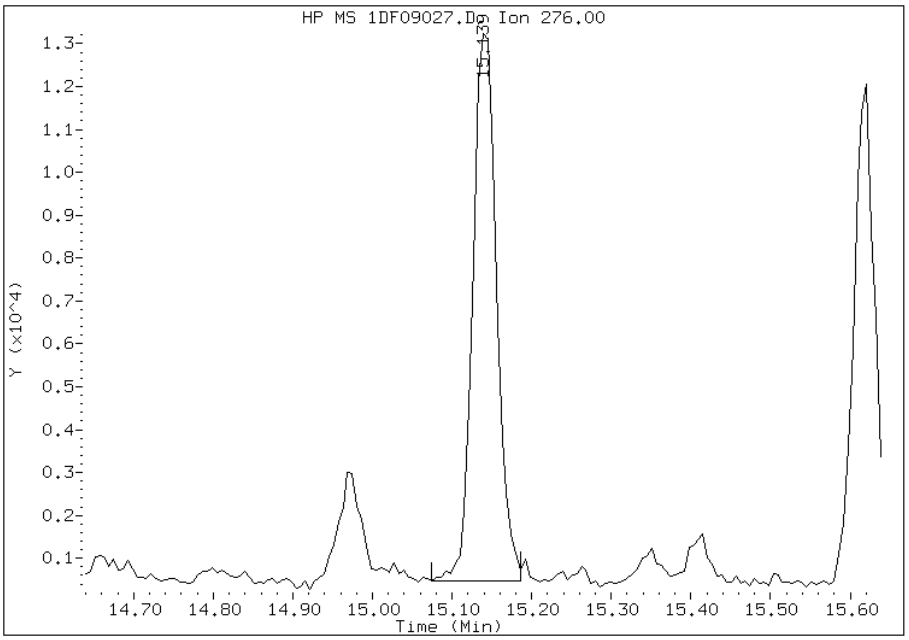
Processing Integration Results

RT: 15.14

Response: 26360

Amount: 1

Conc: 191



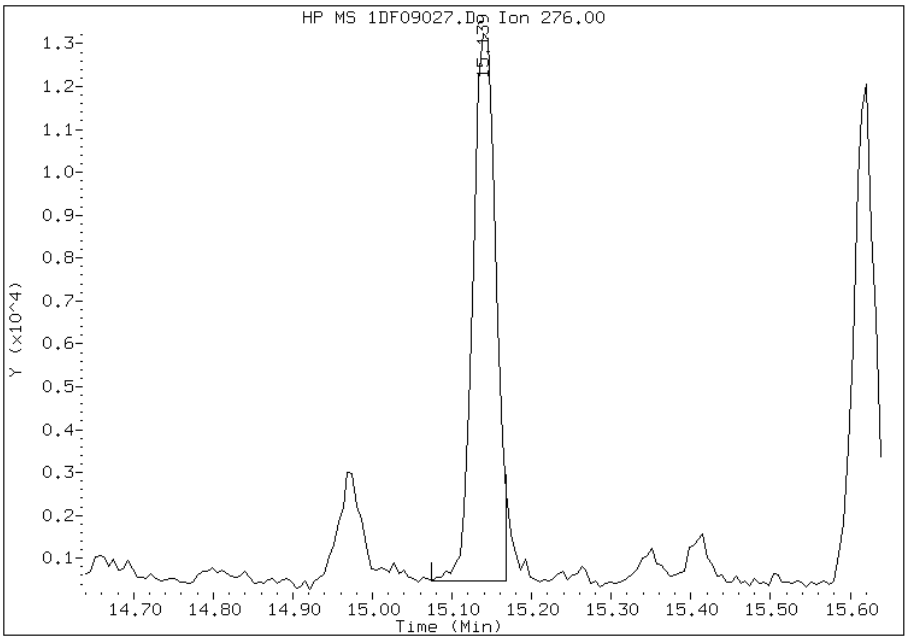
Manual Integration Results

RT: 15.14

Response: 25663

Amount: 1

Conc: 187



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 14:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0352A-CS | Lab Sample ID: 680-90852-31

Matrix: Solid | Lab File ID: 1DF09028.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 12:35

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.37(g) | Date Analyzed: 06/09/2013 19:28

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

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

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	130	J	180	23
120-12-7	Anthracene	150		39	19
56-55-3	Benzo[a]anthracene	380		37	18
50-32-8	Benzo[a]pyrene	420		48	24
205-99-2	Benzo[b]fluoranthene	790		56	28
191-24-2	Benzo[g,h,i]perylene	210		92	20
207-08-9	Benzo[k]fluoranthene	300		37	17
218-01-9	Chrysene	440		42	21
53-70-3	Dibenz(a,h)anthracene	91	J	92	19
206-44-0	Fluoranthene	590		92	18
86-73-7	Fluorene	24	J	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	250		92	33
90-12-0	1-Methylnaphthalene	140	J	180	20
91-57-6	2-Methylnaphthalene	250		180	33
91-20-3	Naphthalene	210		180	20
85-01-8	Phenanthrene	350		37	18
129-00-0	Pyrene	480		92	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09028.D
Lab Smp Id: 680-90852-A-31-A Client Smp ID: FM0352A-CS
Inj Date : 09-JUN-2013 19:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-31-a
Misc Info : 680-90852-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 27
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	15.370	Weight Extracted
M	15.421	% 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	6.272	6.263	(1.000)	3099504	40.0000	
*	7 Acenaphthene-d10	164	7.941	7.932	(1.000)	1769405	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.189	(1.000)	2798599	40.0000	
$	15 o-Terphenyl	230	9.504	9.500	(1.033)	75790	1.84853	570
*	19 Chrysene-d12	240	11.572	11.557	(1.000)	2762240	40.0000	
*	24 Perylene-d12	264	13.493	13.460	(1.000)	2128159	40.0000	
	2 Naphthalene	128	6.290	6.281	(1.003)	51360	0.67194	210
	3 2-Methylnaphthalene	142	6.989	6.980	(1.114)	38884	0.79897	240
	4 1-Methylnaphthalene	142	7.083	7.074	(1.129)	23300	0.46504	140
	6 Acenaphthylene	152	7.812	7.802	(0.984)	31065	0.42345	130
	10 Fluorene	166	8.411	8.402	(1.059)	4181	0.07940	24
	12 Phenanthrene	178	9.216	9.207	(1.001)	86750	1.14453	350
	13 Anthracene	178	9.257	9.248	(1.006)	36558	0.49710	150
	16 Fluoranthene	202	10.203	10.194	(1.109)	147861	1.90687	590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
17 Pyrene	202	10.391	10.382	(0.898)	126405	1.56303	480
18 Benzo(a)anthracene	228	11.560	11.539	(0.999)	100543	1.22647	380
20 Chrysene	228	11.596	11.580	(1.002)	105642	1.43110	440
21 Benzo(b)fluoranthene	252	12.918	12.896	(0.957)	137266	2.57462	790
22 Benzo(k)fluoranthene	252	12.953	12.938	(0.960)	54169	0.97022	300
23 Benzo(a)pyrene	252	13.388	13.361	(0.992)	67568	1.37861	420
25 Indeno(1,2,3-cd)pyrene	276	15.138	15.111	(1.122)	36638	0.81036	250(M)
26 Dibenzo(a,h)anthracene	278	15.168	15.147	(1.124)	11426	0.29661	91
27 Benzo(g,h,i)perylene	276	15.614	15.587	(1.157)	32385	0.67018	210

QC Flag Legend

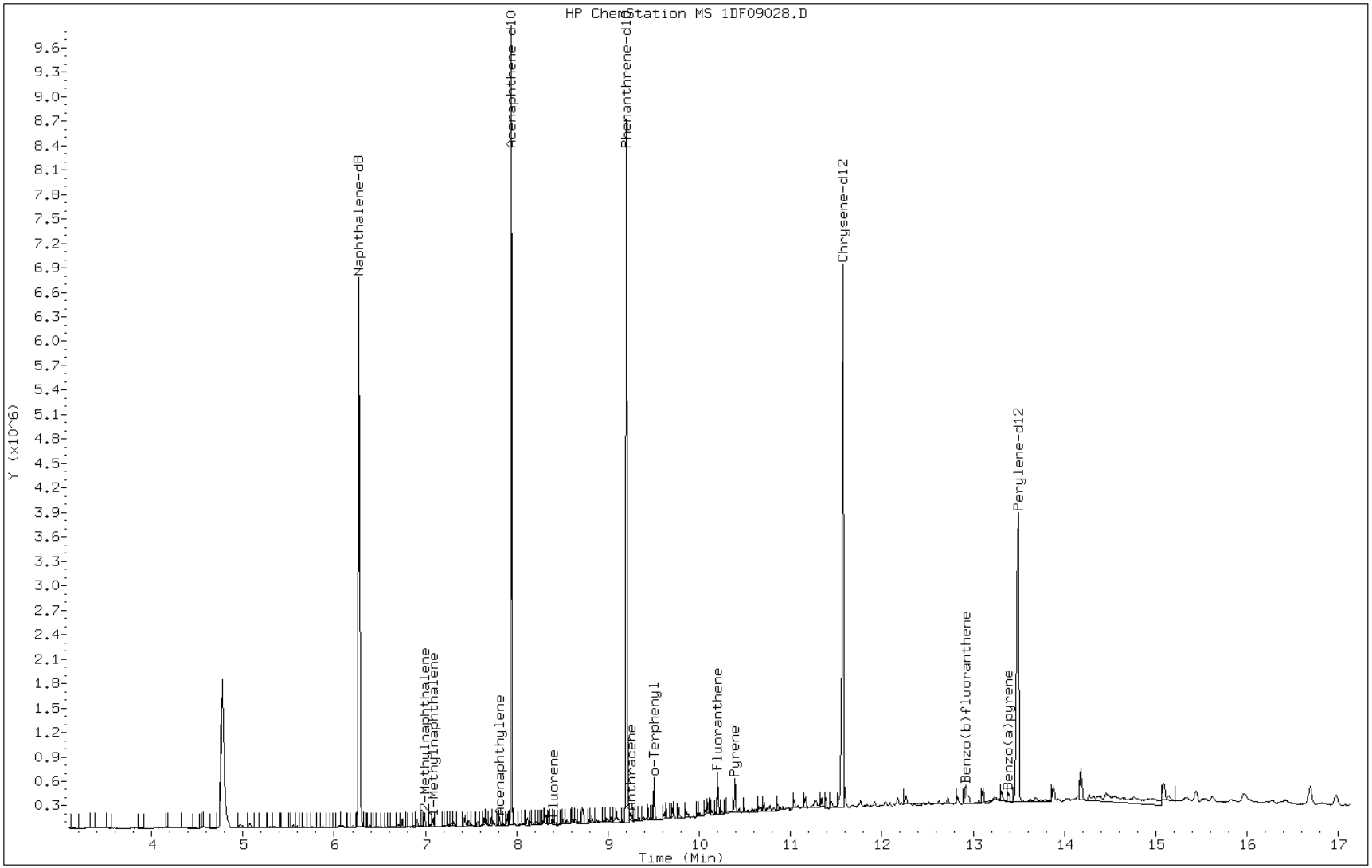
M - Compound response manually integrated.

Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC



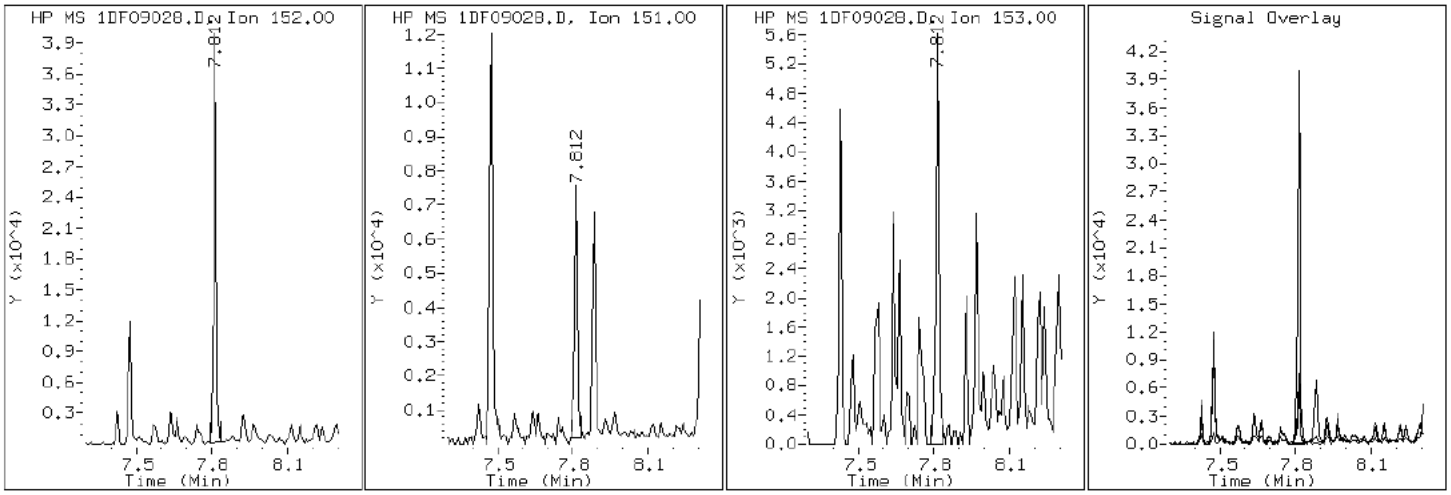
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

6 Acenaphthylene



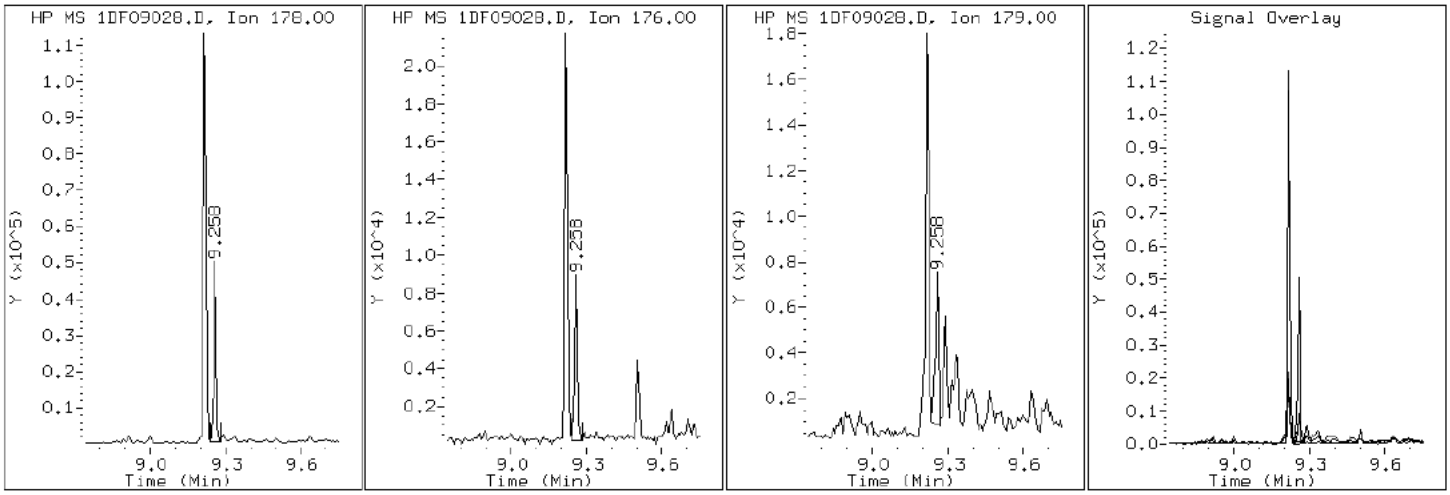
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

13 Anthracene



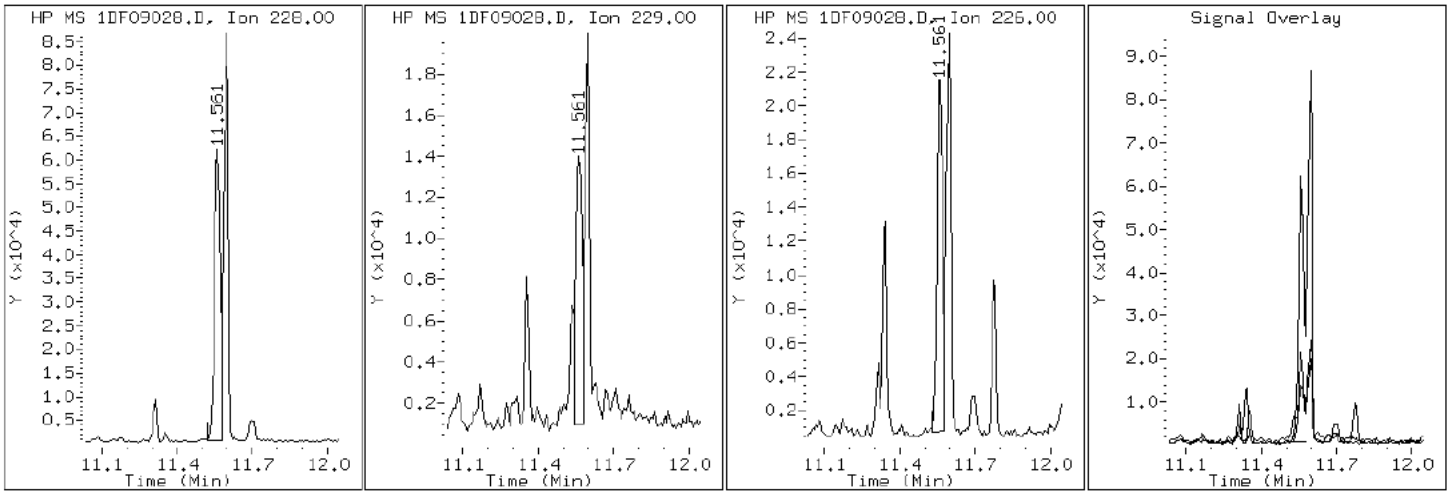
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

18 Benzo(a)anthracene



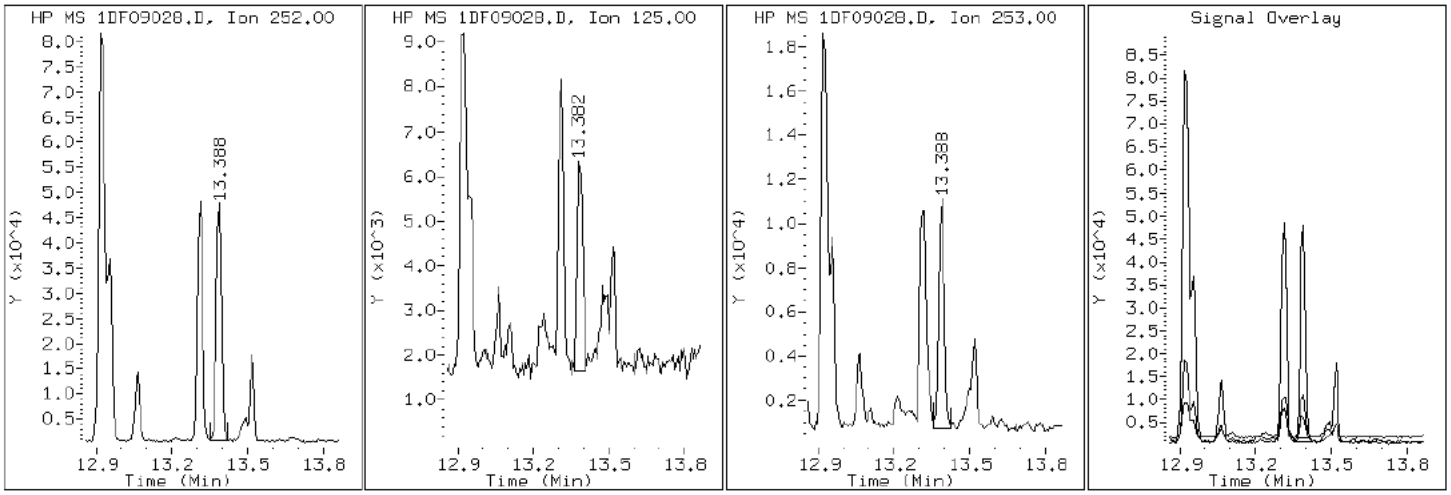
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

23 Benzo(a)pyrene



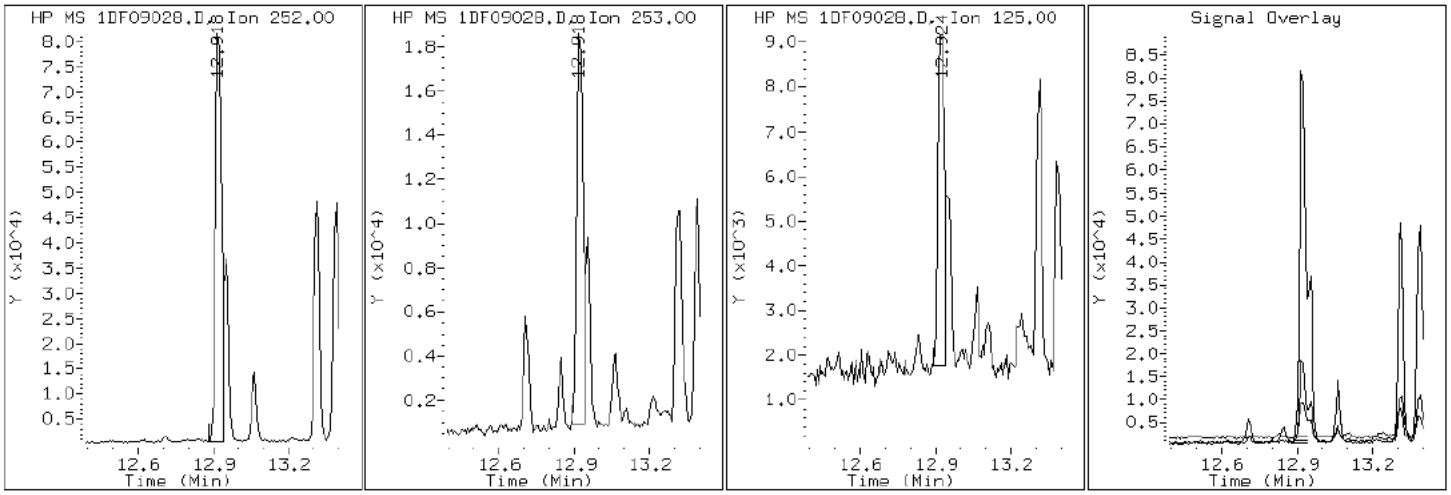
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

21 Benzo(b)fluoranthene



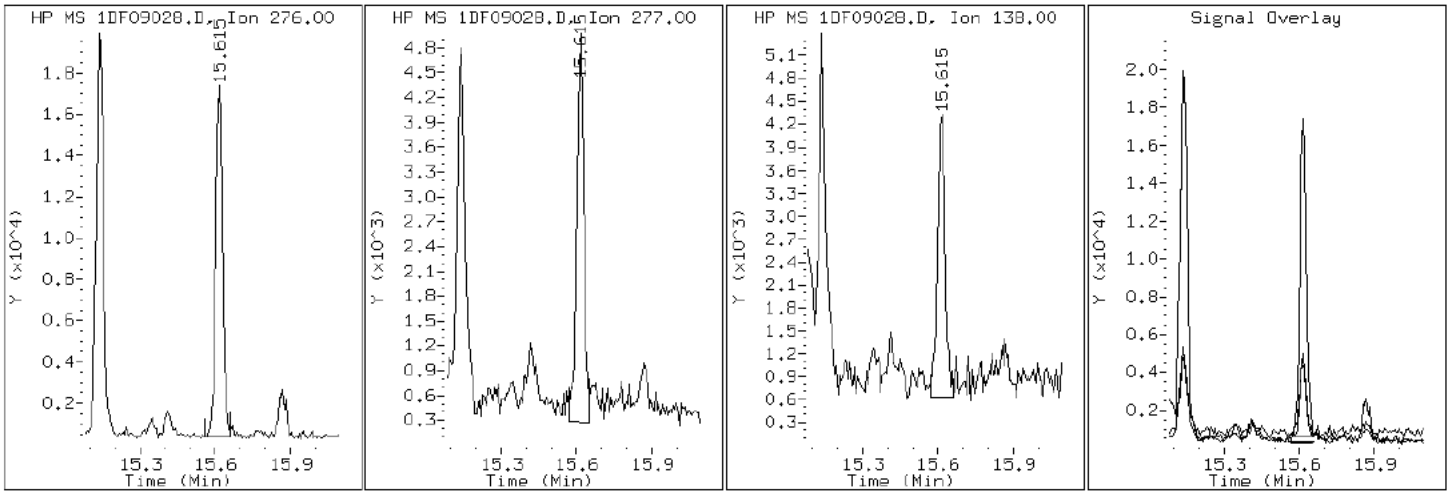
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

27 Benzo(g,h,i)perylene



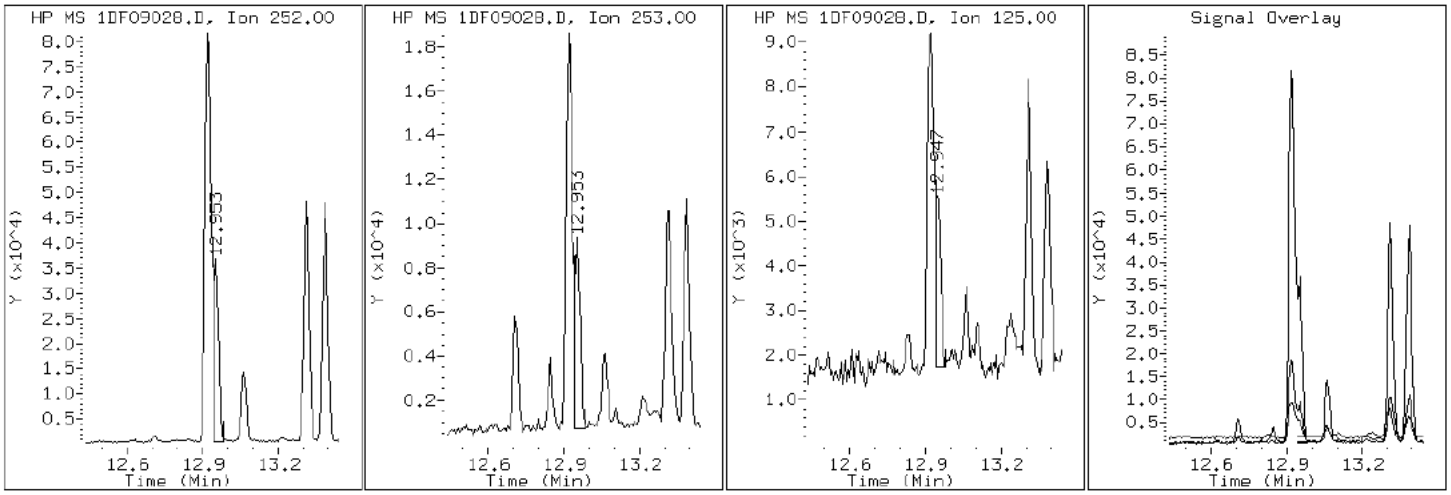
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

22 Benzo(k)fluoranthene



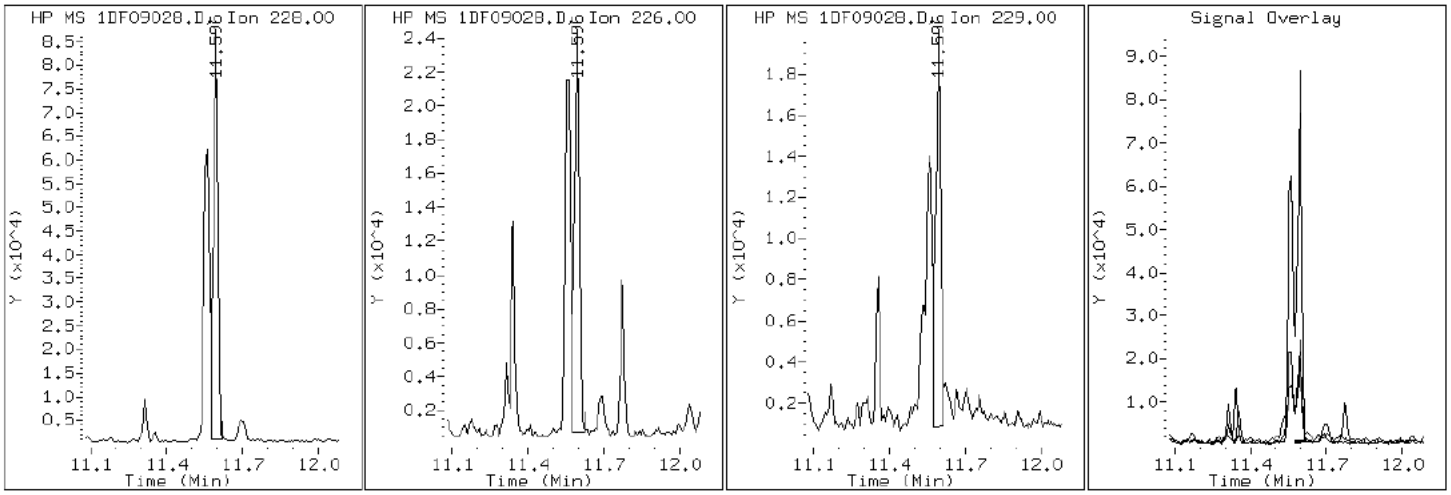
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

20 Chrysene



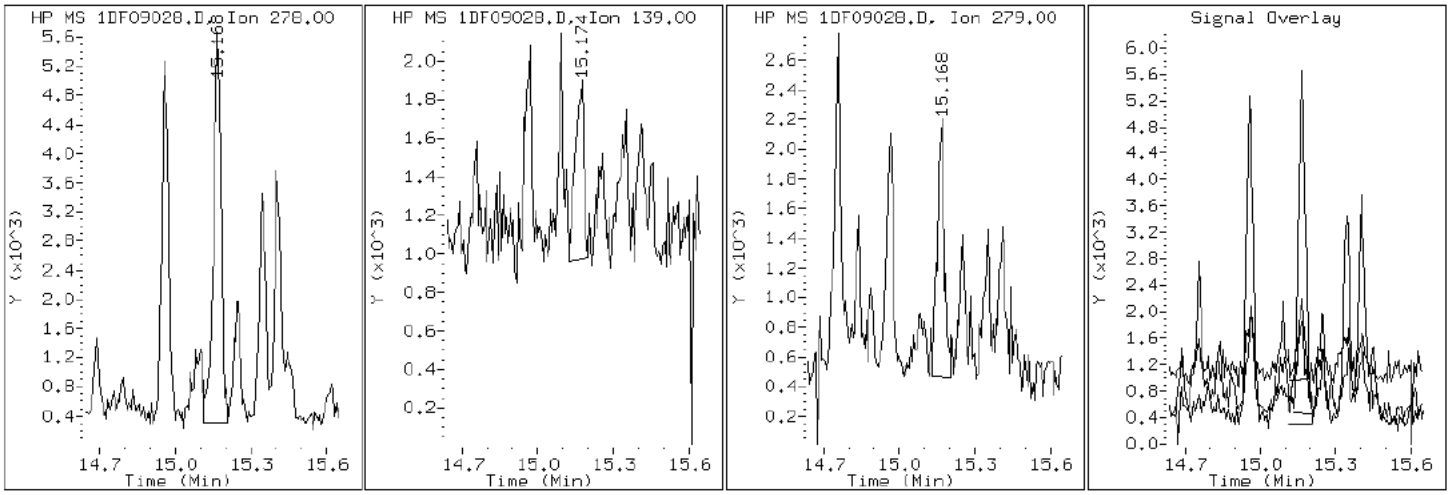
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

26 Dibenzo(a,h)anthracene



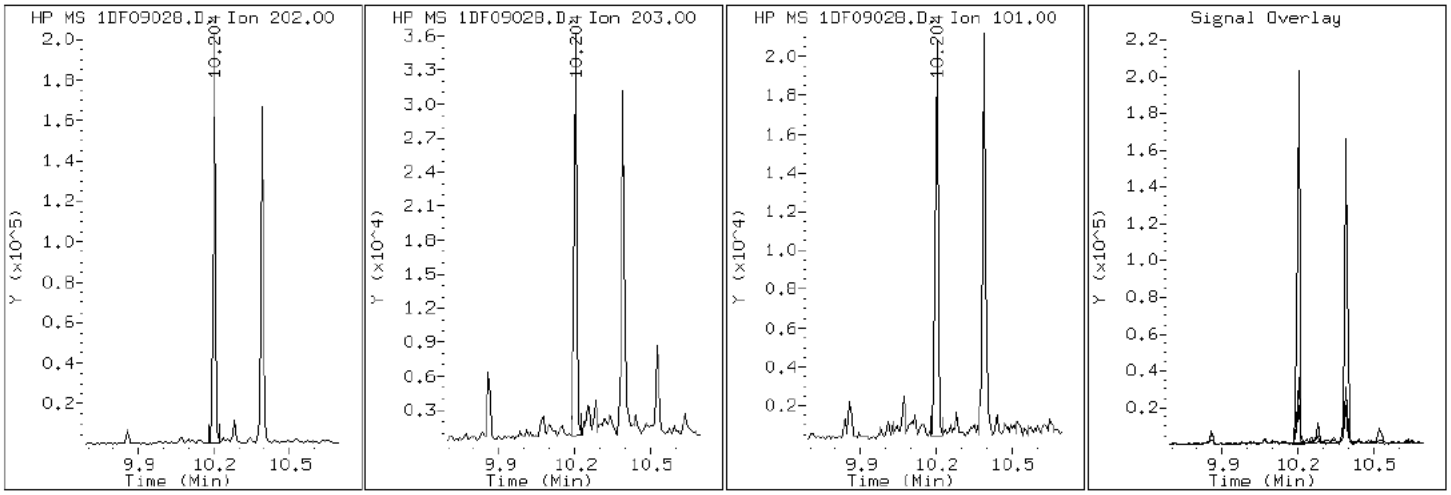
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

16 Fluoranthene



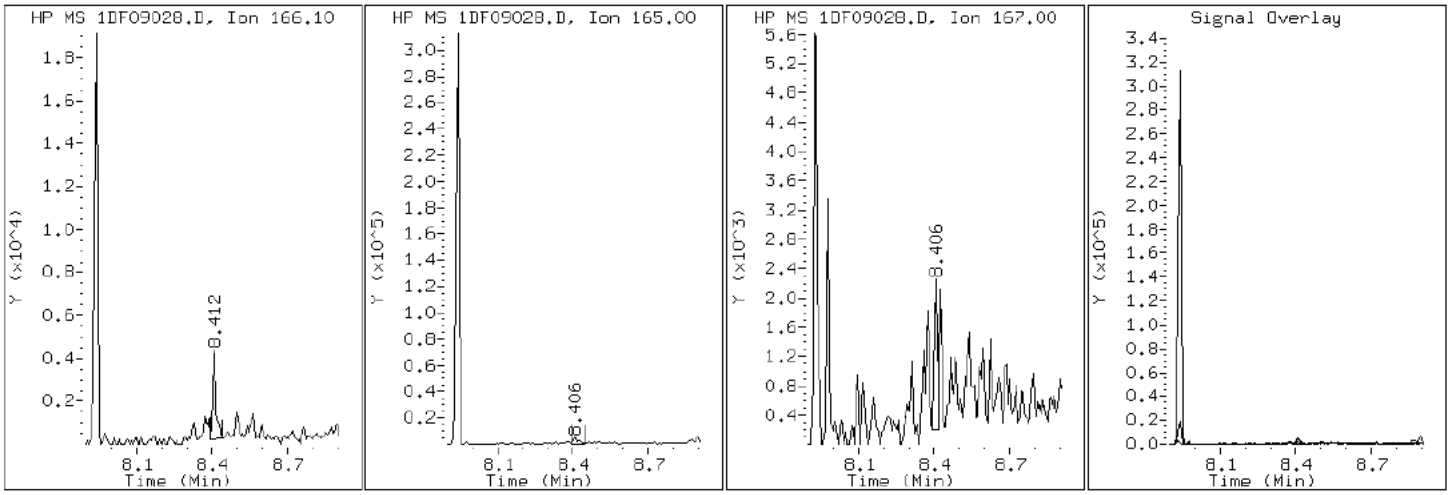
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

10 Fluorene



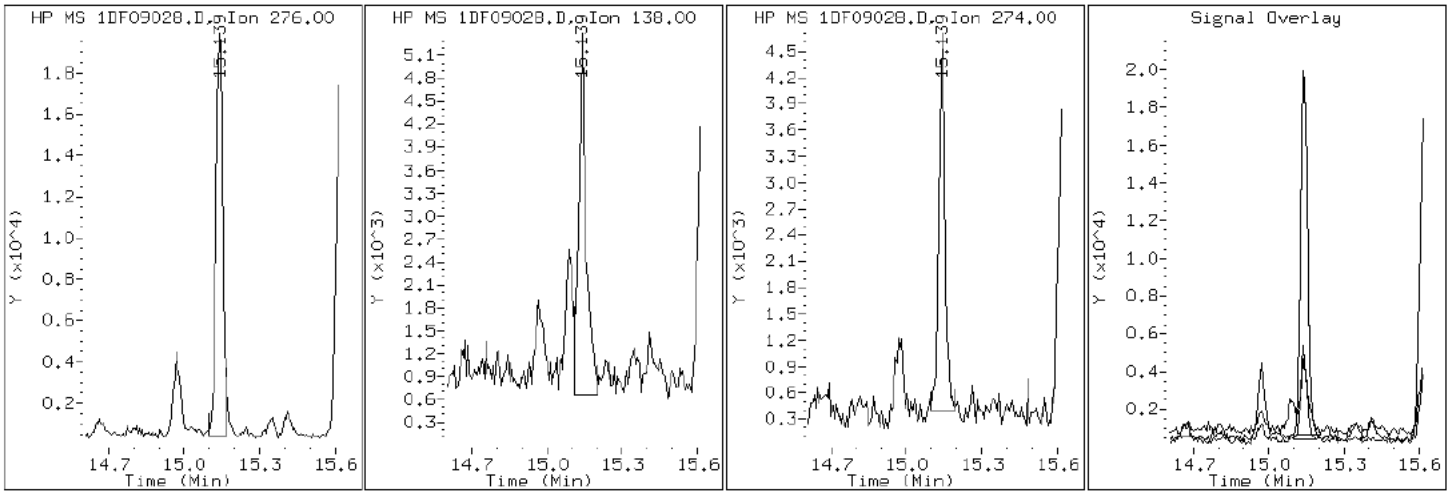
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

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



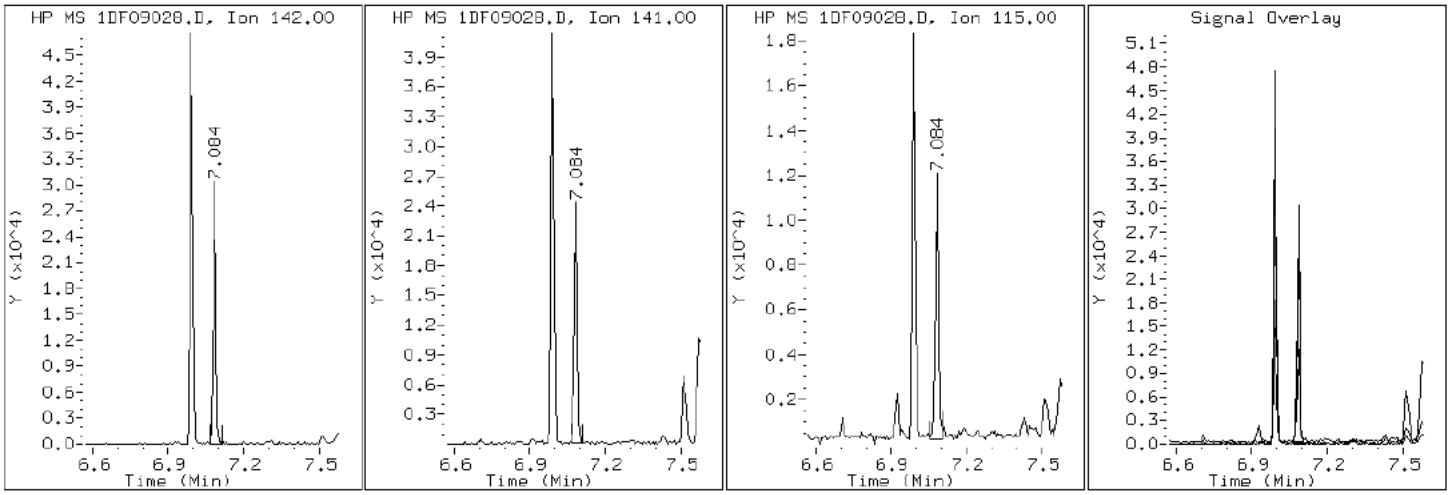
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

4 1-Methylnaphthalene



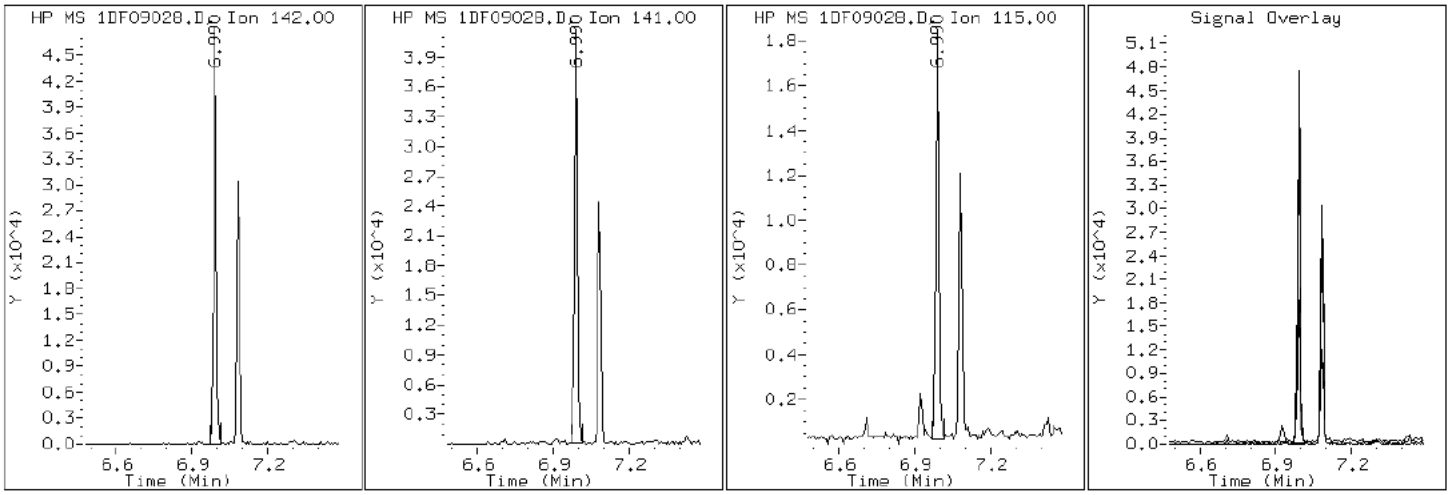
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

3 2-Methylnaphthalene



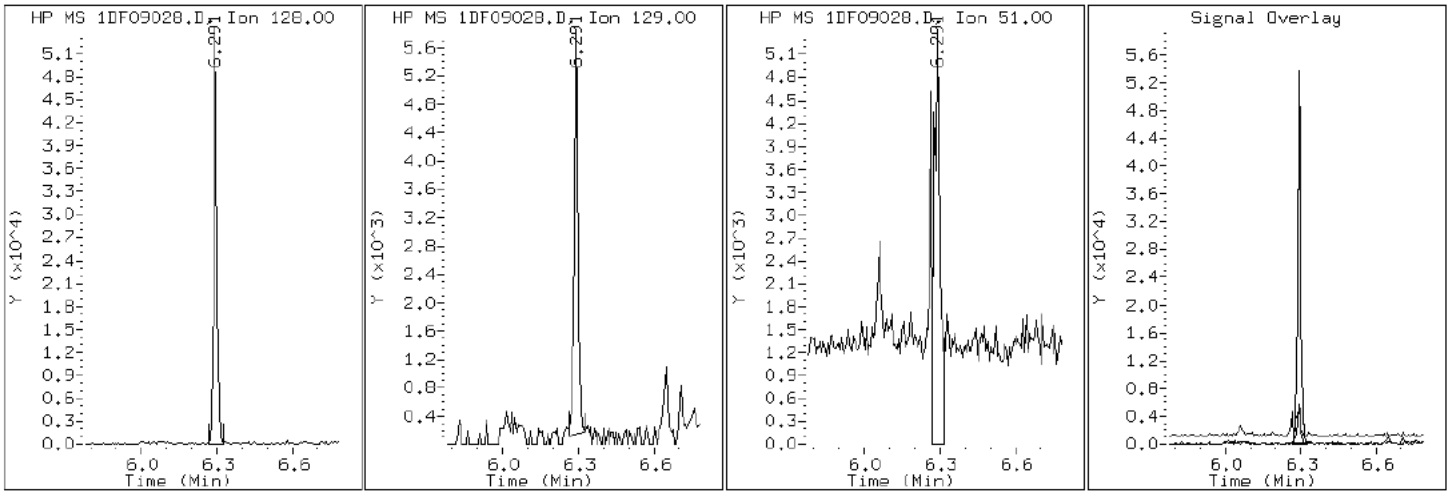
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

2 Naphthalene



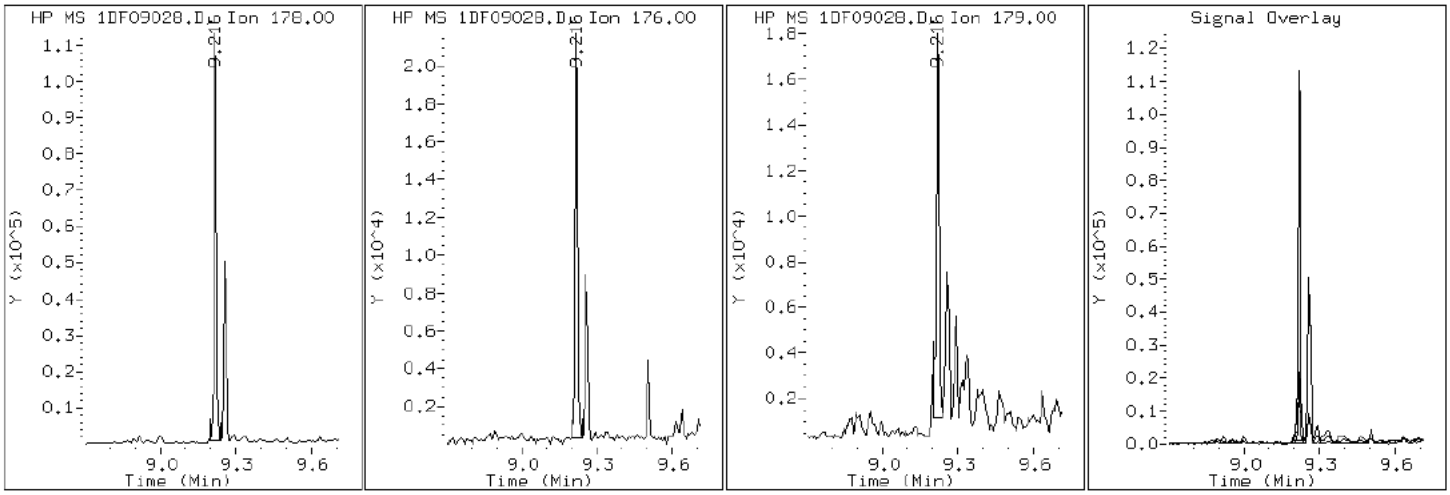
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

12 Phenanthrene



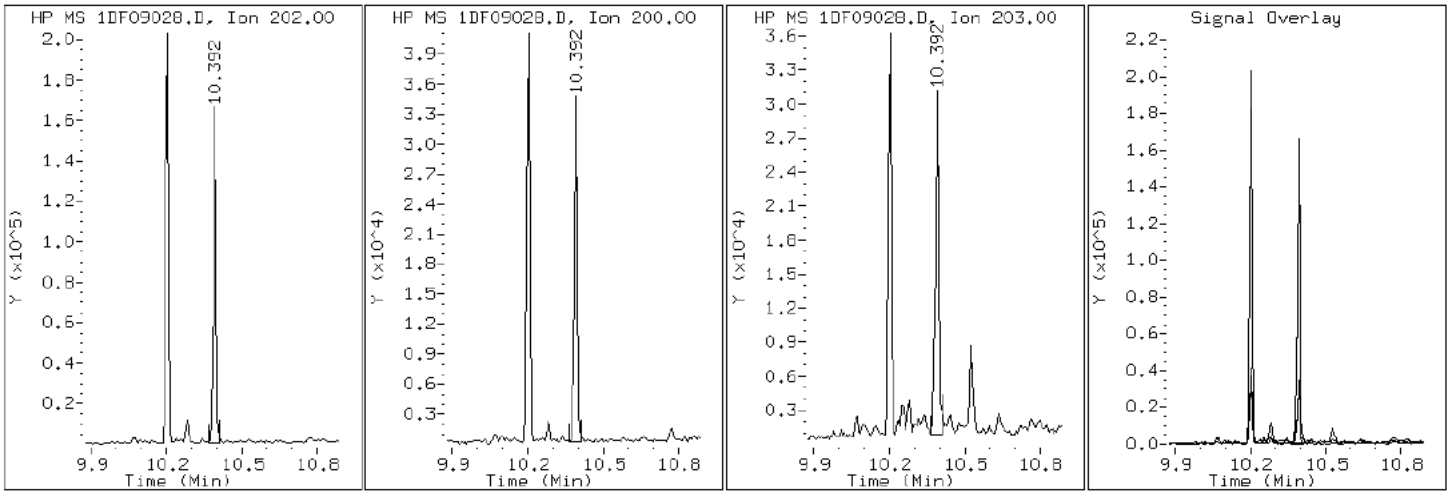
Data File: 1DF09028.D

Date: 09-JUN-2013 19:28

Client ID: FM0352A-CS Instrument: BSMSD.i

Sample Info: 680-90852-a-31-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09028.D
Inj. Date and Time: 09-JUN-2013 19:28
Instrument ID: BSMSD.i
Client ID: FM0352A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

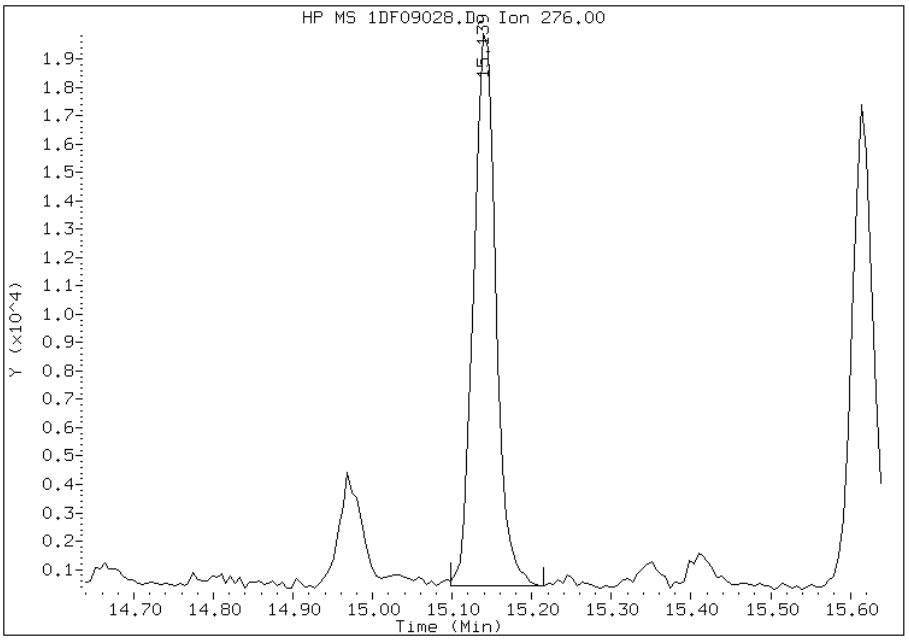
Processing Integration Results

RT: 15.14

Response: 37841

Amount: 1

Conc: 256



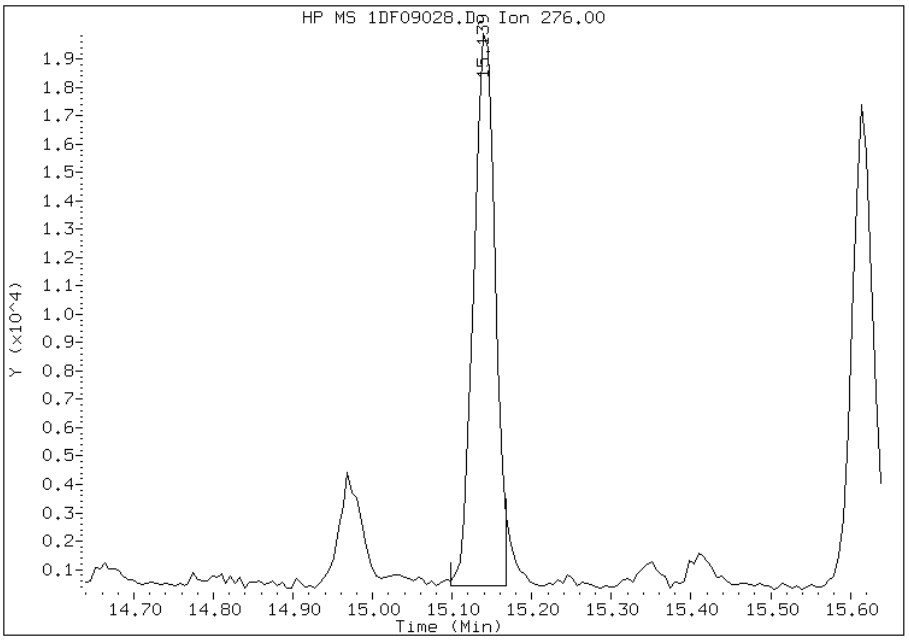
Manual Integration Results

RT: 15.14

Response: 36638

Amount: 1

Conc: 249



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 14:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0352A-CSD | Lab Sample ID: 680-90852-32

Matrix: Solid | Lab File ID: 1DF09029.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 12:00

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.05(g) | Date Analyzed: 06/09/2013 19:50

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

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

% Moisture: 11.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	90
208-96-8	Acenaphthylene	120	J	180	22
120-12-7	Anthracene	140		38	19
56-55-3	Benzo[a]anthracene	370		36	17
50-32-8	Benzo[a]pyrene	420		47	23
205-99-2	Benzo[b]fluoranthene	800		55	27
191-24-2	Benzo[g,h,i]perylene	210		90	20
207-08-9	Benzo[k]fluoranthene	260		36	16
218-01-9	Chrysene	450		40	20
53-70-3	Dibenz(a,h)anthracene	84	J	90	18
206-44-0	Fluoranthene	640		90	18
86-73-7	Fluorene	19	J	90	18
193-39-5	Indeno[1,2,3-cd]pyrene	260		90	32
90-12-0	1-Methylnaphthalene	84	J	180	20
91-57-6	2-Methylnaphthalene	160	J	180	32
91-20-3	Naphthalene	150	J	180	20
85-01-8	Phenanthrene	320		36	17
129-00-0	Pyrene	520		90	17

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\1D060913.b\1DF09029.D
Lab Smp Id: 680-90852-A-32-A Client Smp ID: FM0352A-CSD
Inj Date : 09-JUN-2013 19:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-32-a
Misc Info : 680-90852-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 28
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	15.050	Weight Extracted
M	11.050	% 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	6.269	6.263	(1.000)	3218047	40.0000	
*	7 Acenaphthene-d10	164	7.944	7.932	(1.000)	1879703	40.0000	
*	11 Phenanthrene-d10	188	9.201	9.189	(1.000)	2976861	40.0000	
$	15 o-Terphenyl	230	9.507	9.500	(1.033)	77289	1.77220	530
*	19 Chrysene-d12	240	11.575	11.557	(1.000)	2922392	40.0000	
*	24 Perylene-d12	264	13.490	13.460	(1.000)	2246348	40.0000	
	2 Naphthalene	128	6.293	6.281	(1.004)	40358	0.50855	150
	3 2-Methylnaphthalene	142	6.992	6.980	(1.115)	27771	0.54961	160
	4 1-Methylnaphthalene	142	7.080	7.074	(1.129)	14694	0.28247	84
	6 Acenaphthylene	152	7.815	7.802	(0.984)	32449	0.41636	120
	10 Fluorene	166	8.408	8.402	(1.058)	3578	0.06396	19
	12 Phenanthrene	178	9.219	9.207	(1.002)	86295	1.07035	320
	13 Anthracene	178	9.260	9.248	(1.006)	36651	0.46852	140
	16 Fluoranthene	202	10.200	10.194	(1.109)	175994	2.13377	640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.394	10.382	(0.898)	149779	1.75056	520
18 Benzo(a)anthracene	228	11.557	11.539	(0.998)	106976	1.23343	370
20 Chrysene	228	11.599	11.580	(1.002)	118821	1.52142	450
21 Benzo(b)fluoranthene	252	12.921	12.896	(0.958)	149864	2.66302	800
22 Benzo(k)fluoranthene	252	12.956	12.938	(0.960)	51606	0.87568	260
23 Benzo(a)pyrene	252	13.391	13.361	(0.993)	73086	1.41030	420
25 Indeno(1,2,3-cd)pyrene	276	15.141	15.111	(1.122)	41561	0.85983	260(M)
26 Dibenzo(a,h)anthracene	278	15.165	15.147	(1.124)	11264	0.28178	84(M)
27 Benzo(g,h,i)perylene	276	15.617	15.587	(1.158)	36092	0.70760	210

QC Flag Legend

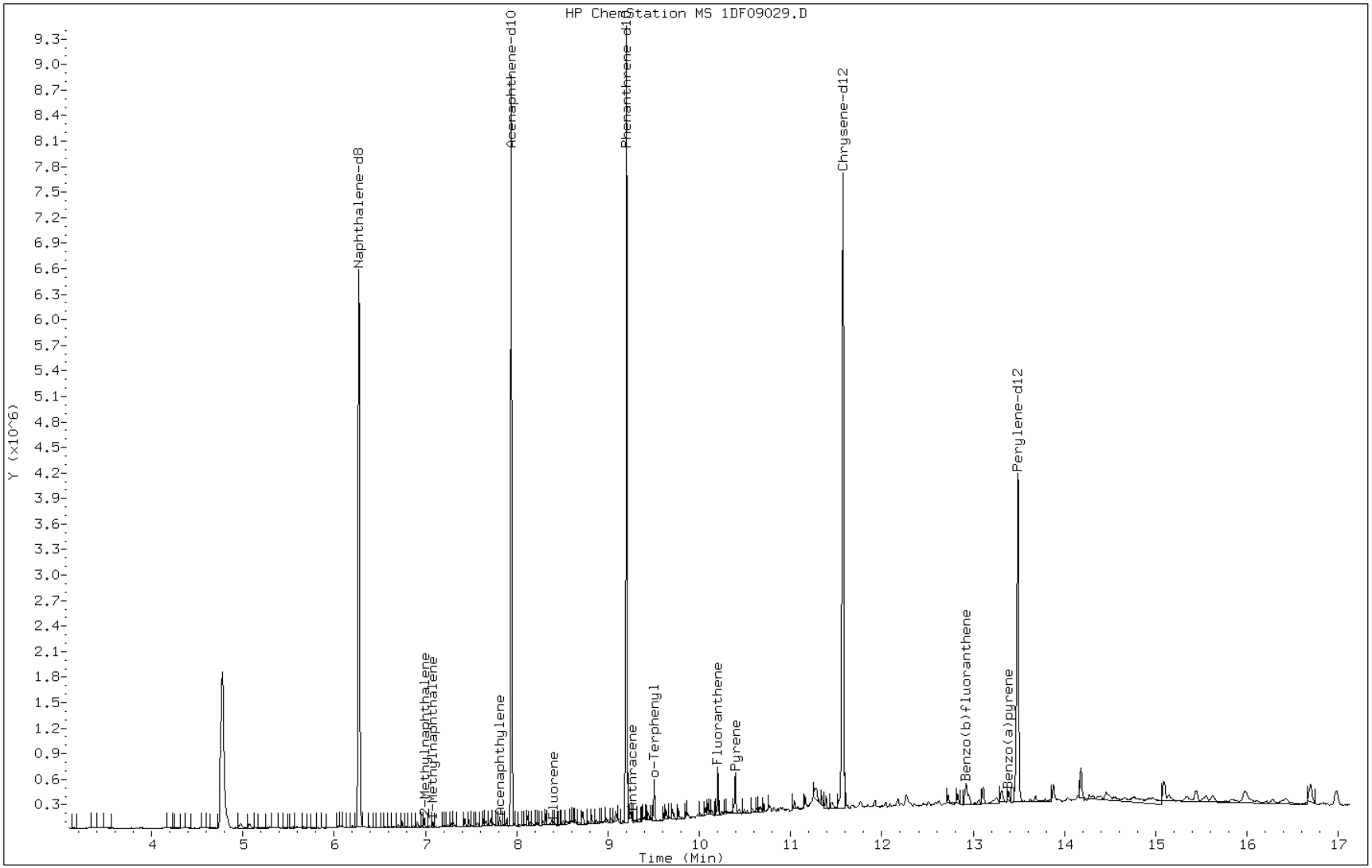
M - Compound response manually integrated.

Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC



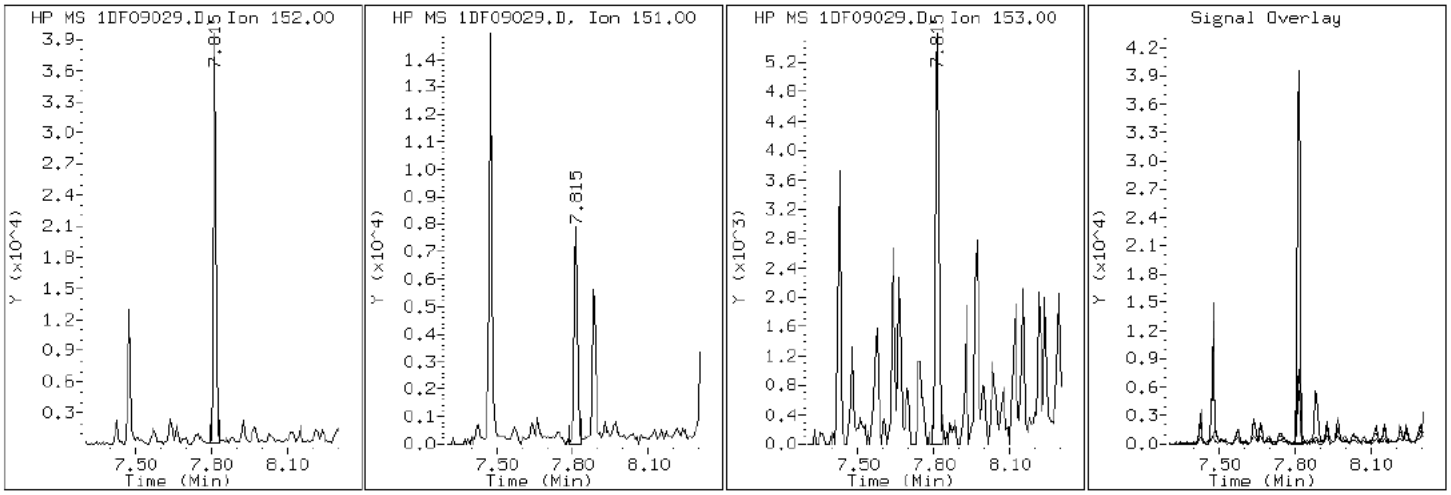
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

6 Acenaphthylene



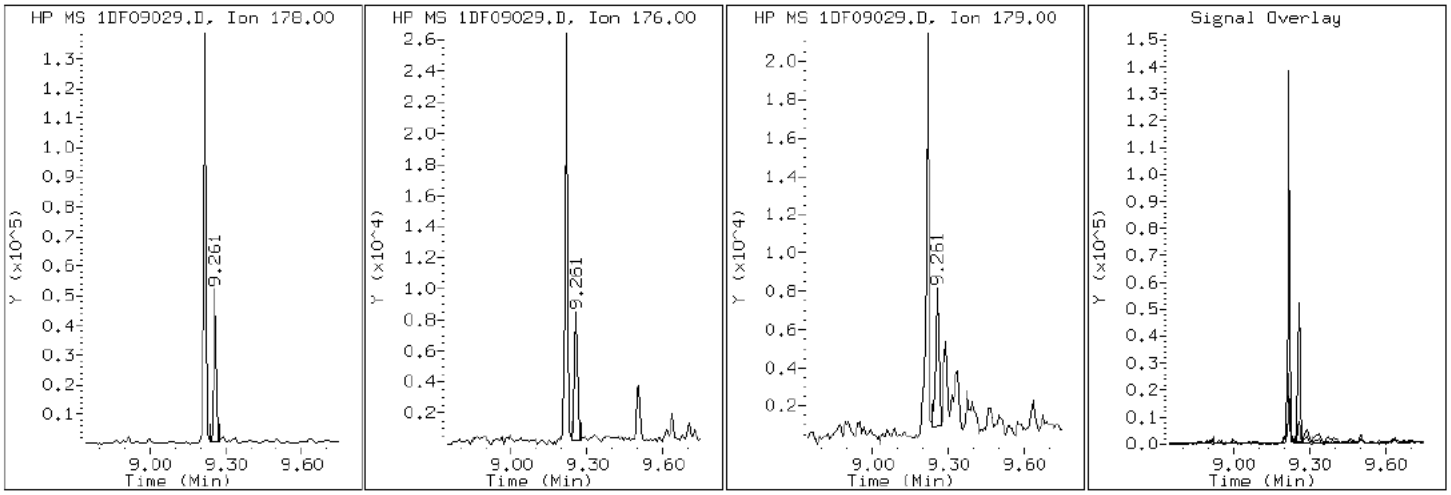
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

13 Anthracene



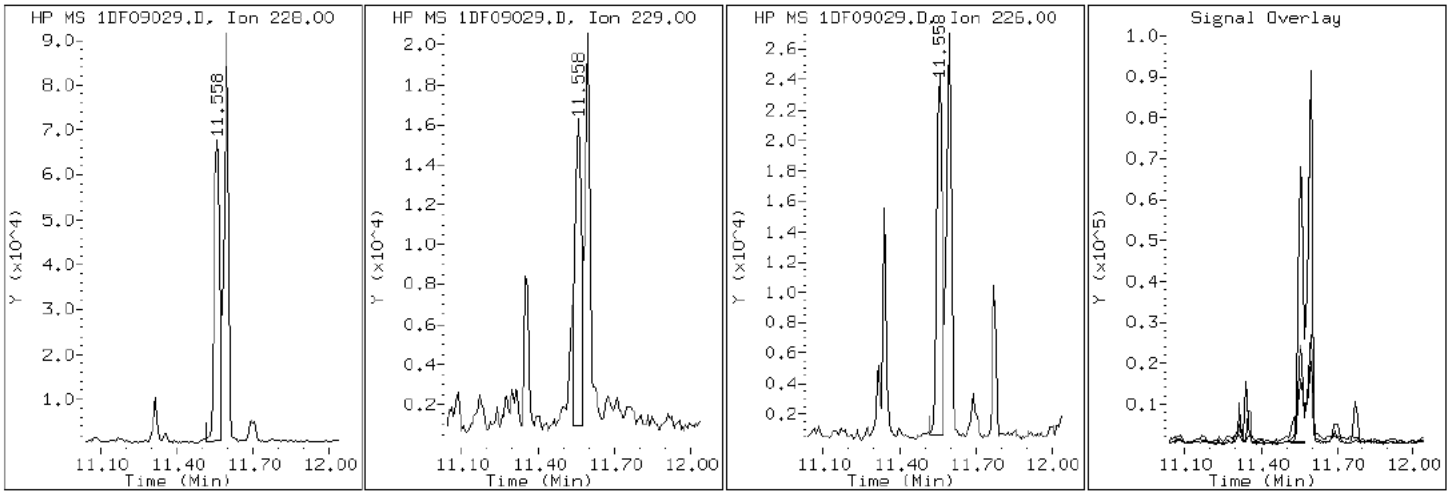
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

18 Benzo(a)anthracene



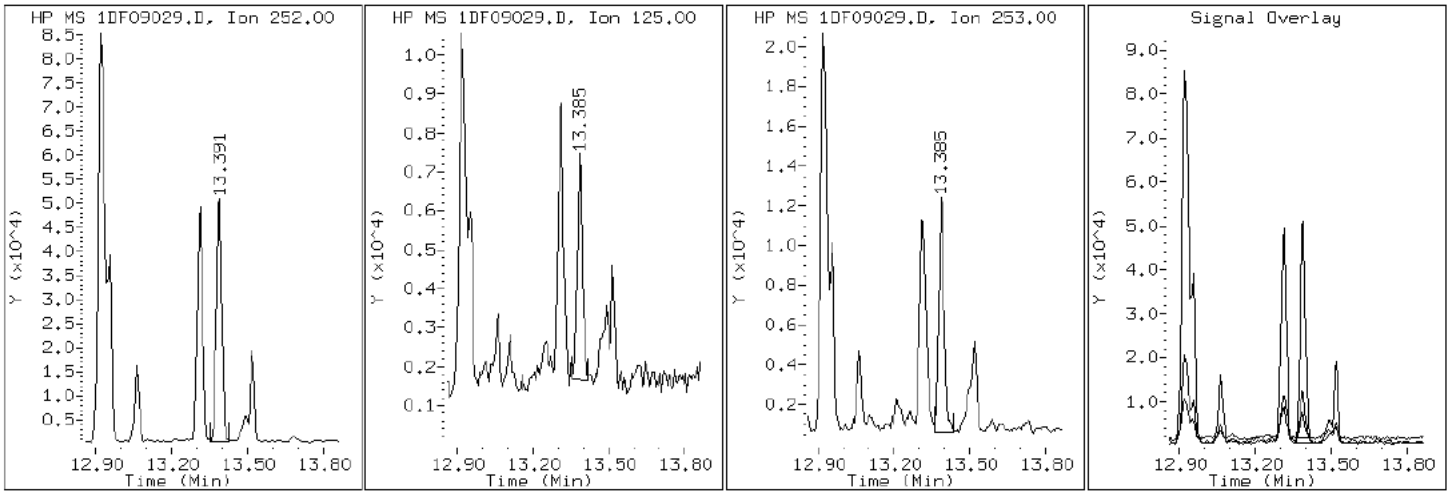
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

23 Benzo(a)pyrene



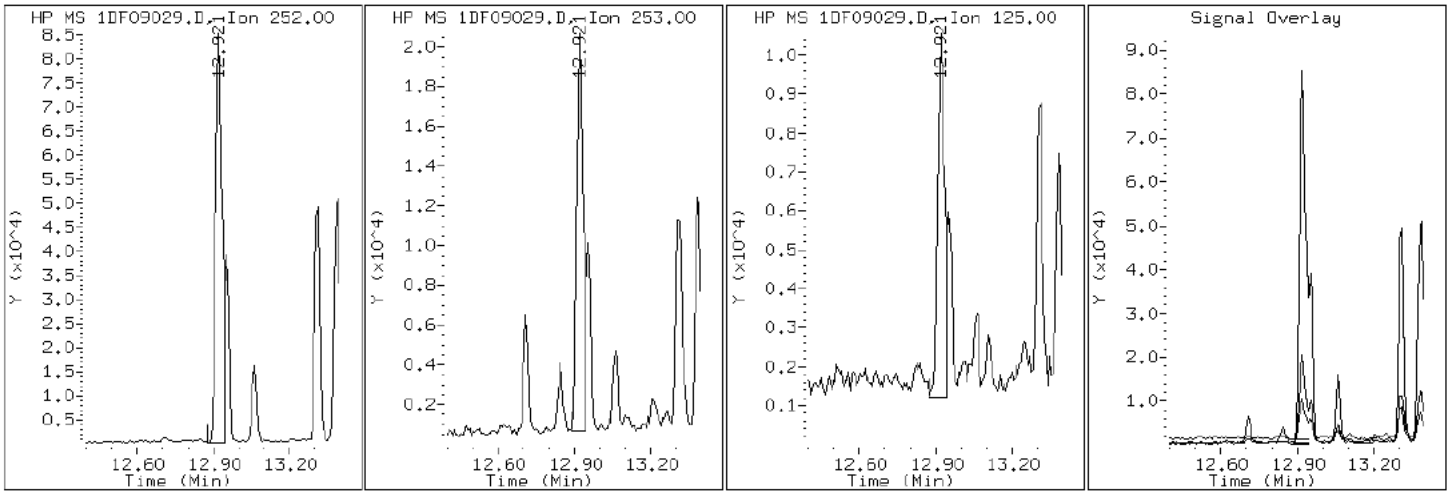
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

21 Benzo(b)fluoranthene



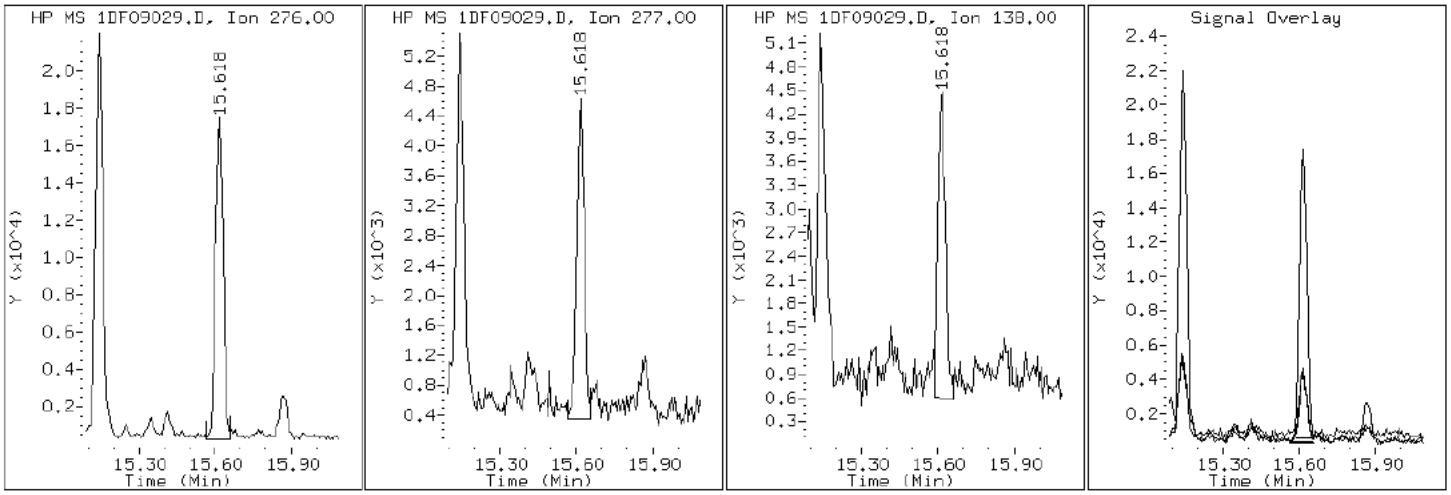
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

27 Benzo(g,h,i)perylene



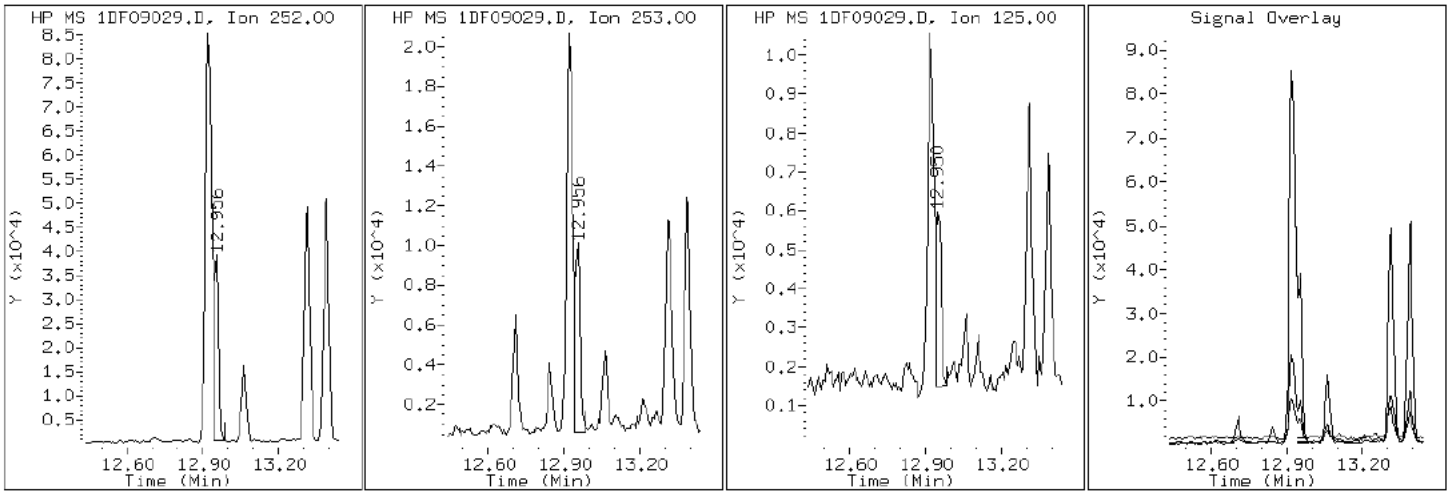
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

22 Benzo(k)fluoranthene



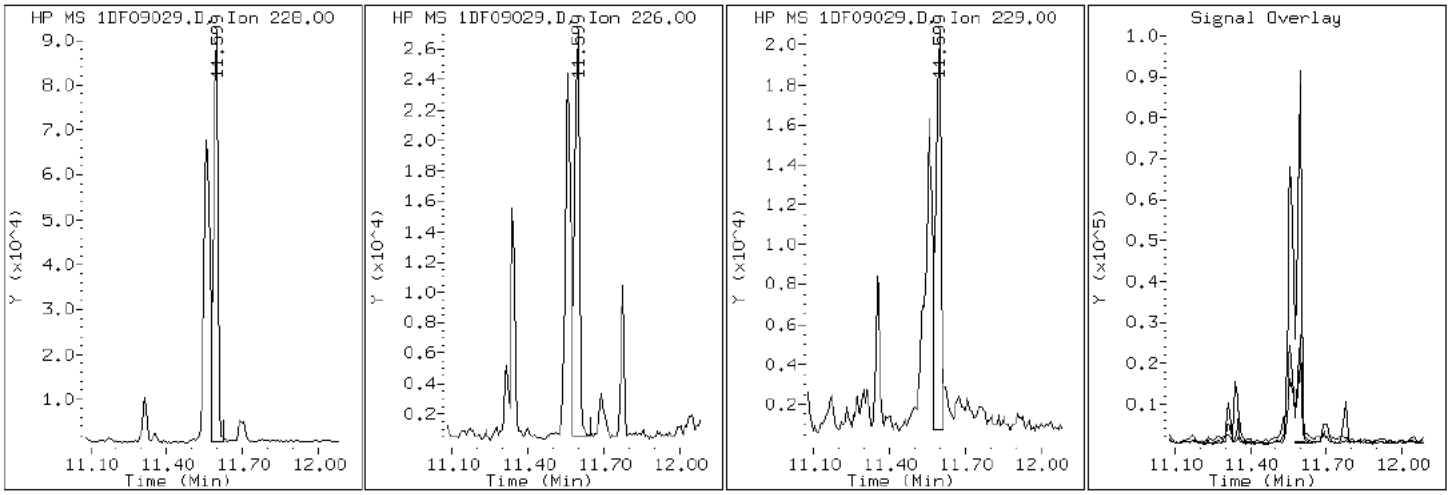
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

20 Chrysene



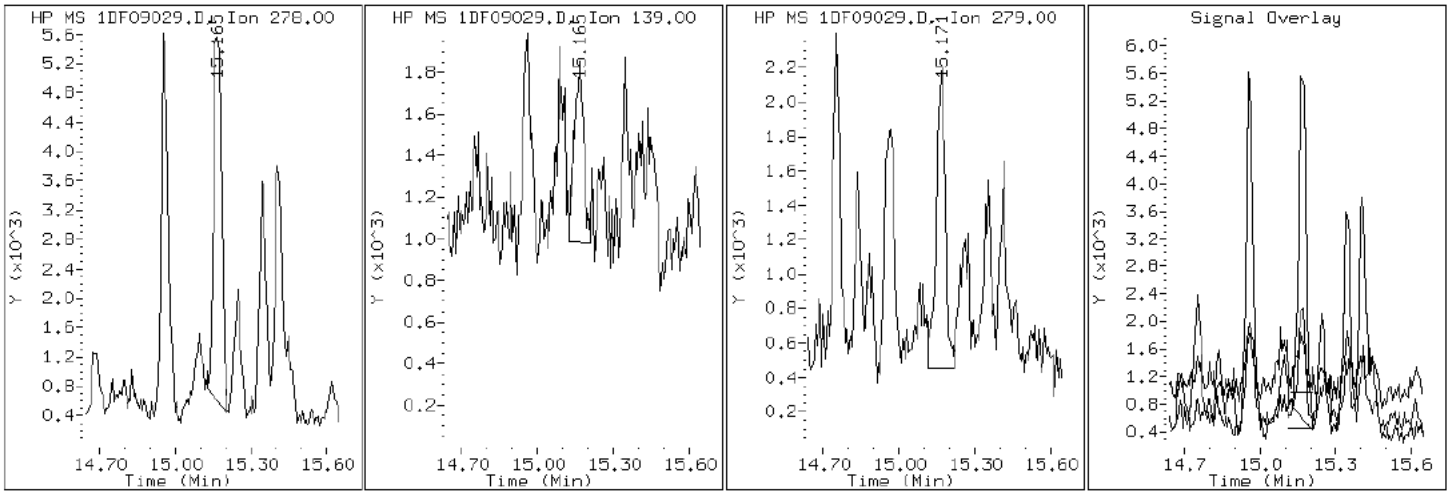
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

26 Dibenzo(a,h)anthracene



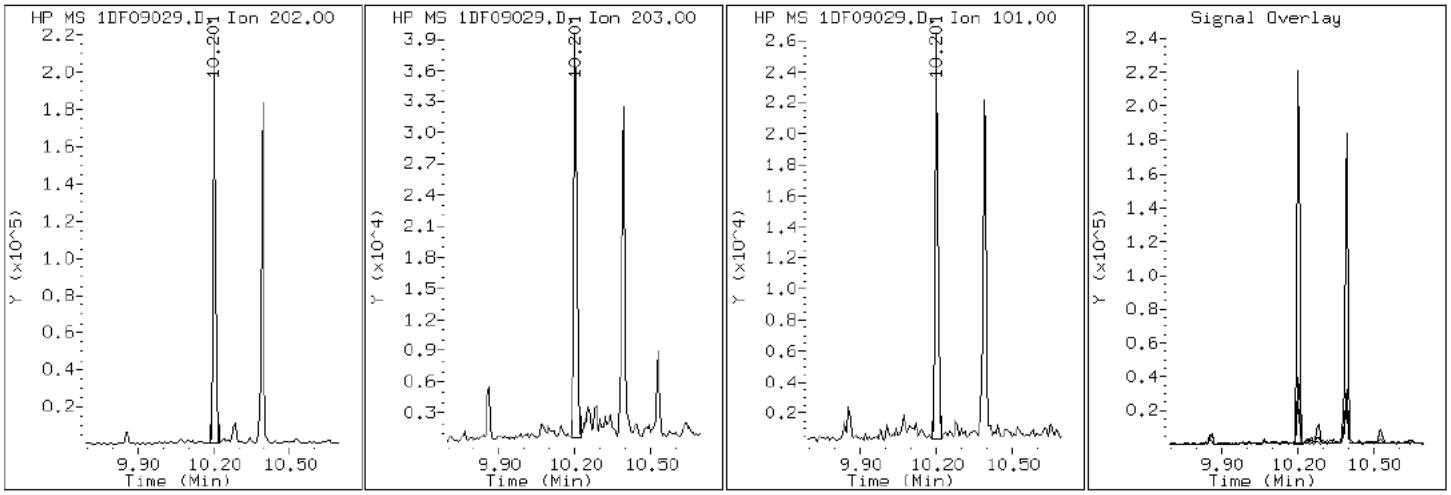
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

16 Fluoranthene



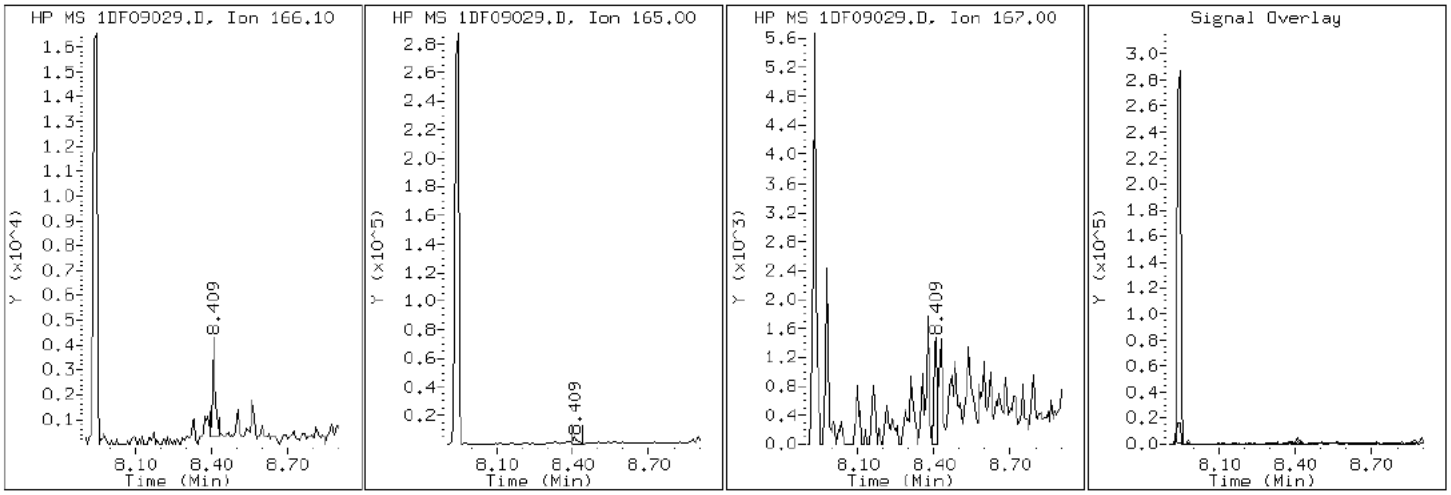
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

10 Fluorene



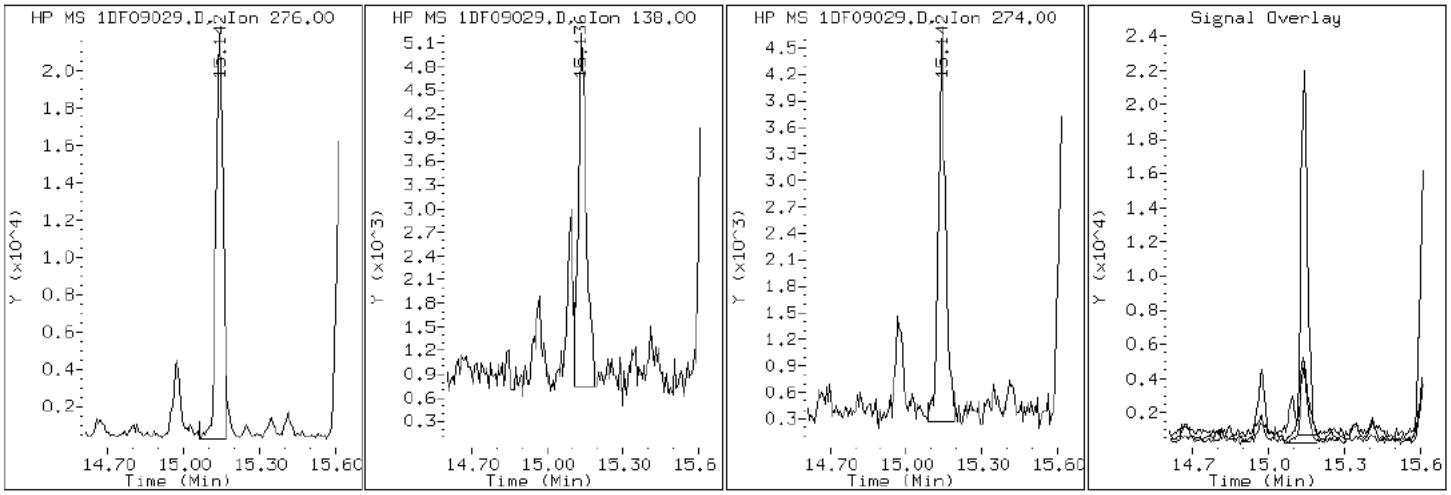
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

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



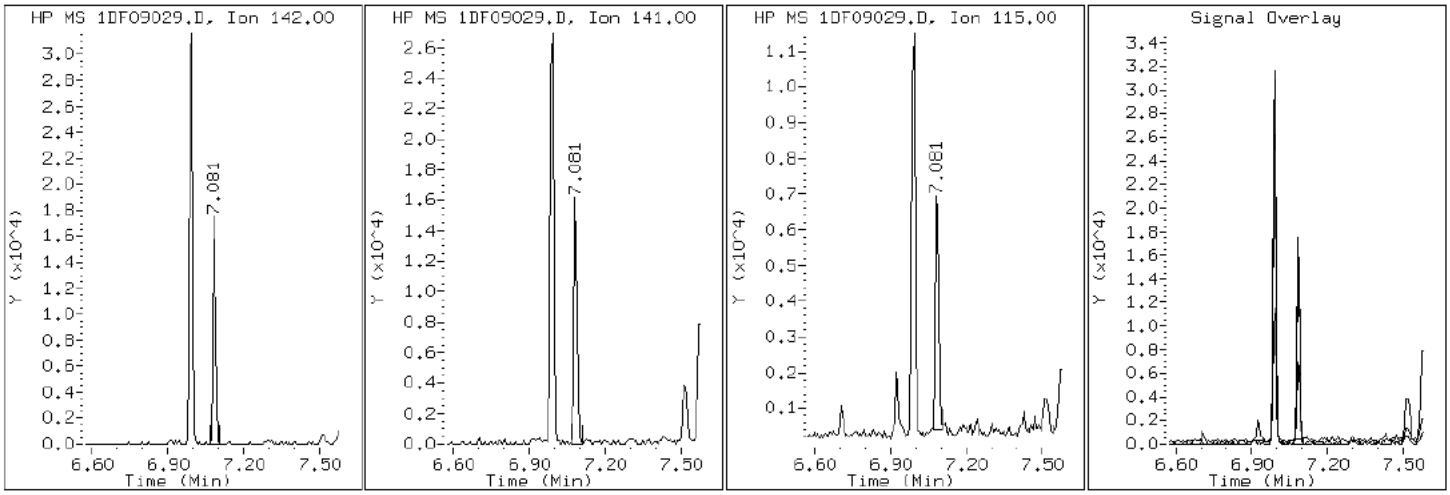
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

4 1-Methylnaphthalene



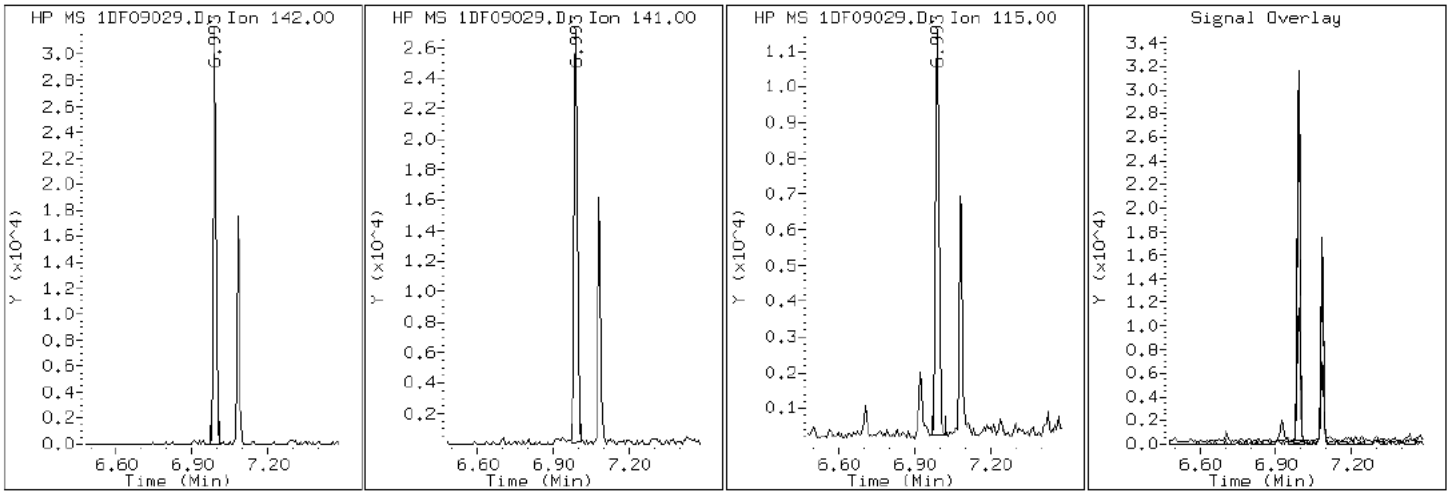
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

3 2-Methylnaphthalene



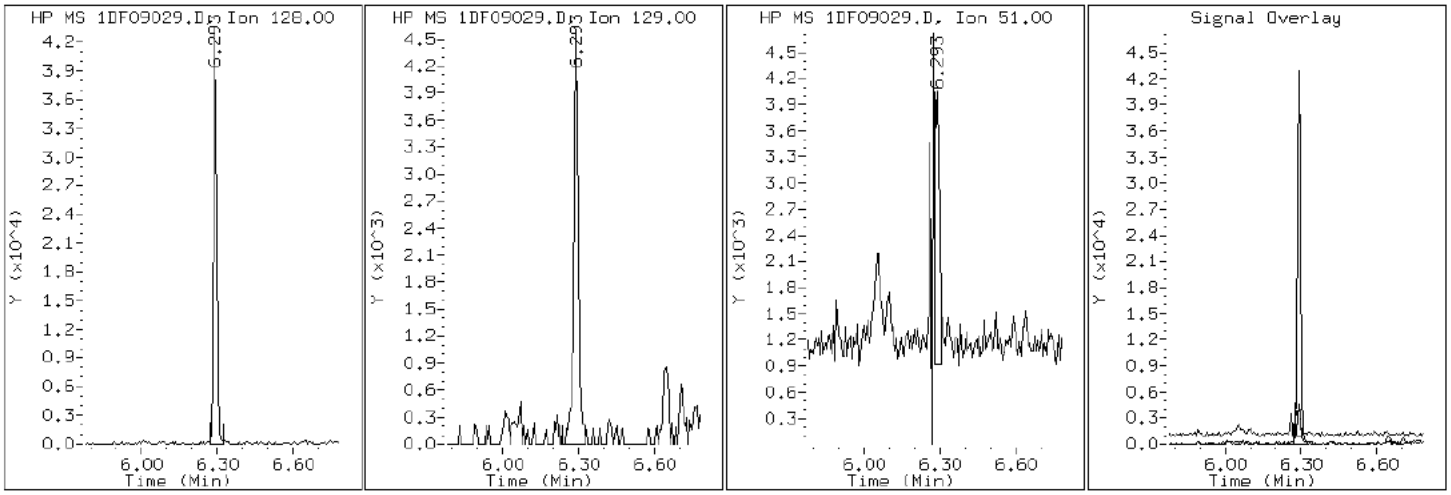
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

2 Naphthalene



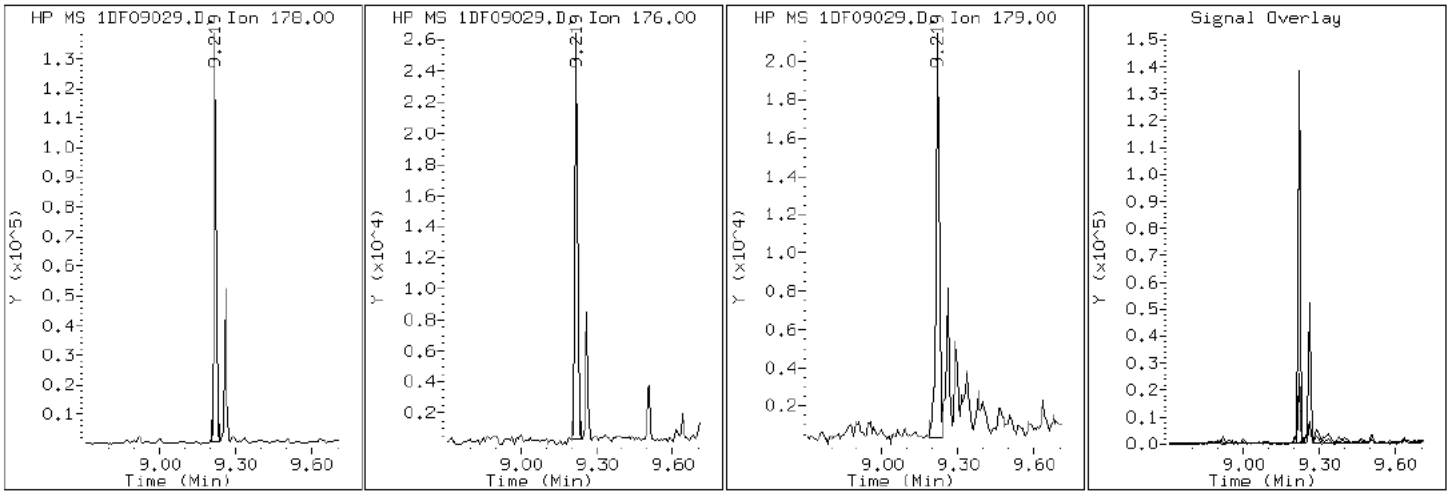
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

12 Phenanthrene



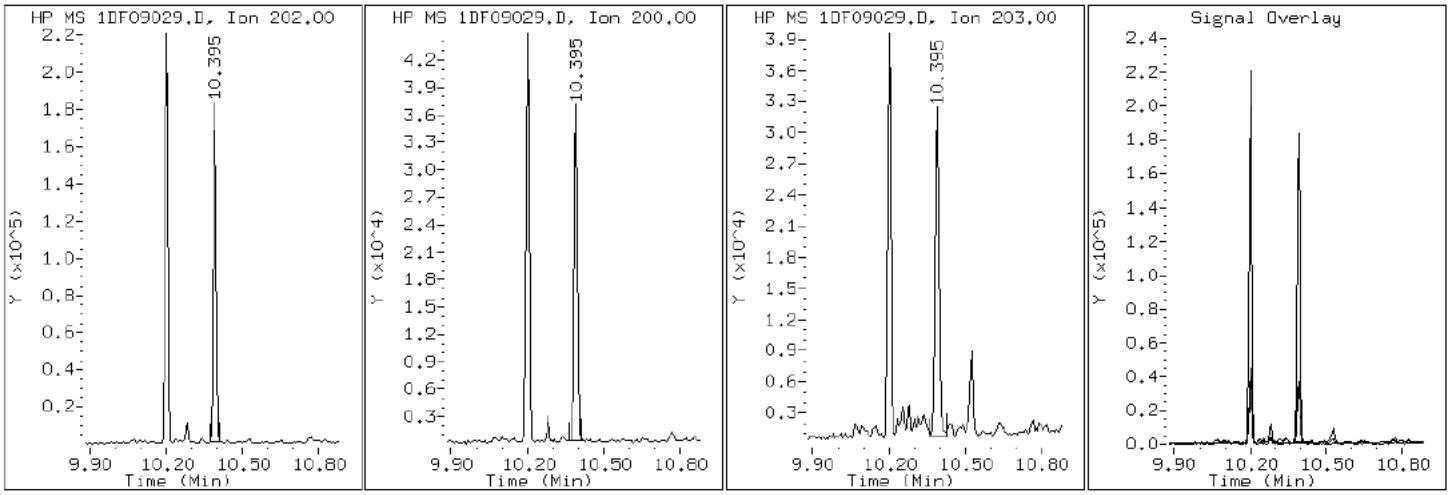
Data File: 1DF09029.D

Date: 09-JUN-2013 19:50

Client ID: FM0352A-CSD Instrument: BSMSD.i

Sample Info: 680-90852-a-32-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF09029.D
Inj. Date and Time: 09-JUN-2013 19:50
Instrument ID: BSMSD.i
Client ID: FM0352A-CSD
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/10/2013

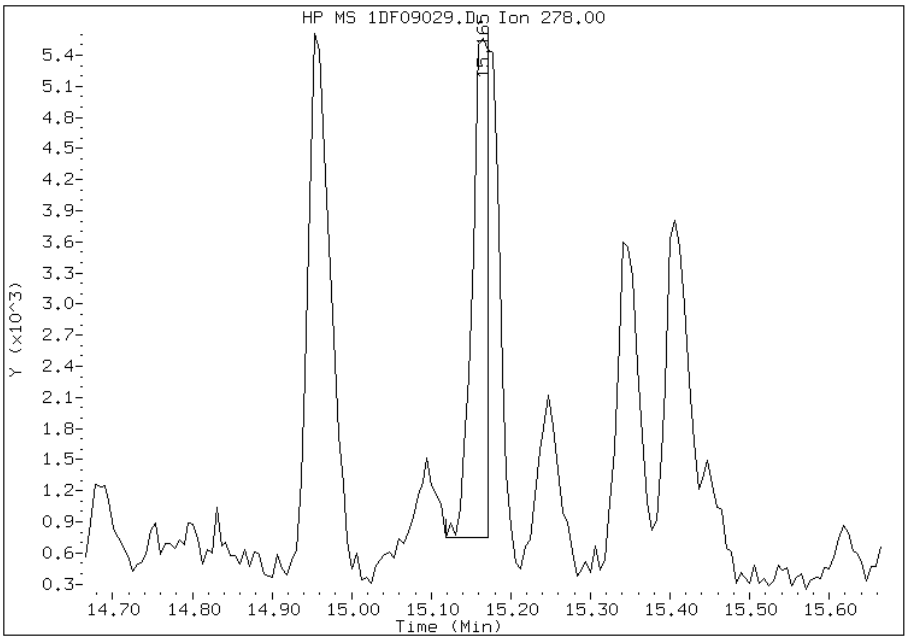
Processing Integration Results

RT: 15.17

Response: 6995

Amount: 0

Conc: 60



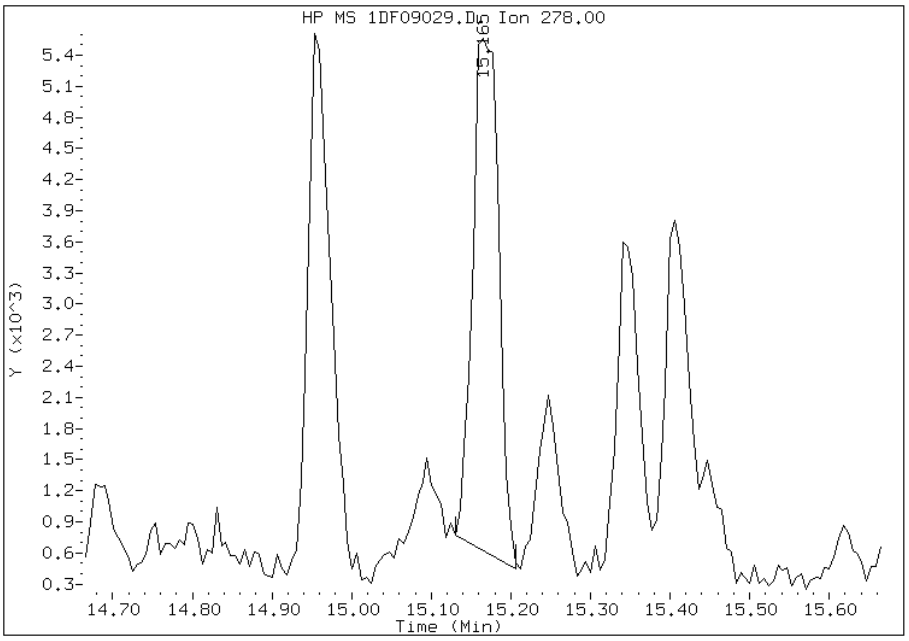
Manual Integration Results

RT: 15.17

Response: 11264

Amount: 0

Conc: 84



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 14:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DF09029.D
Inj. Date and Time: 09-JUN-2013 19:50
Instrument ID: BSMSD.i
Client ID: FM0352A-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

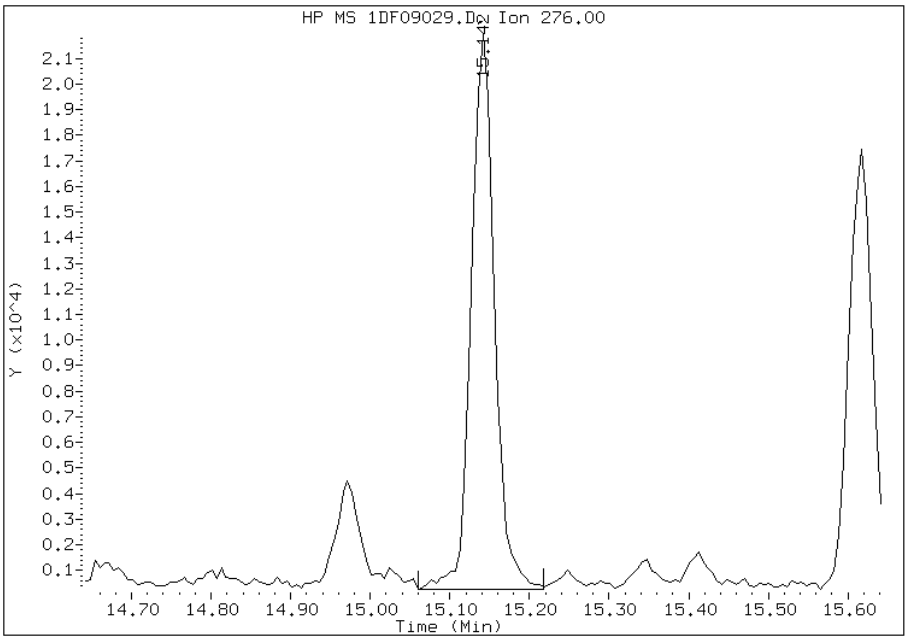
Processing Integration Results

RT: 15.14

Response: 43871

Amount: 1

Conc: 269



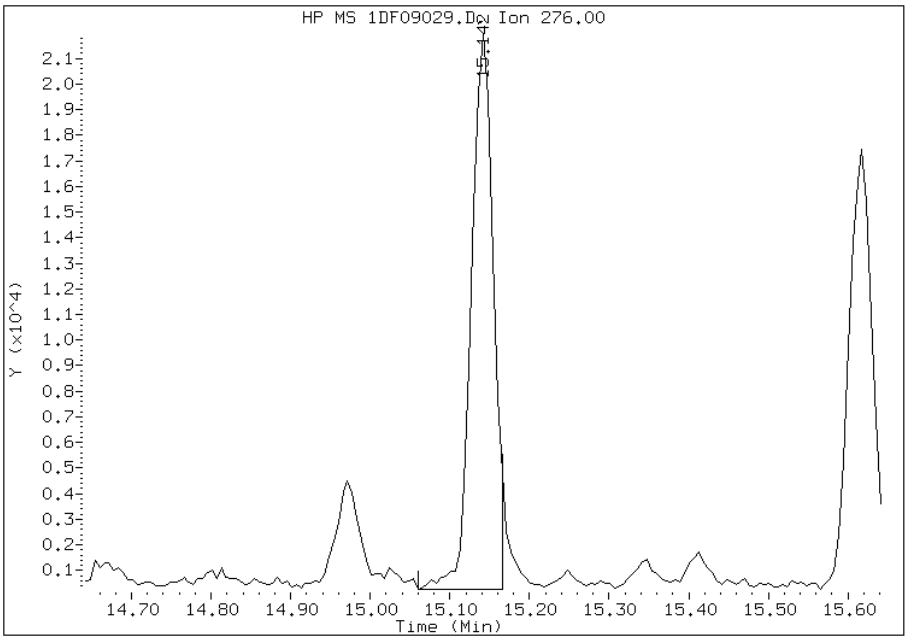
Manual Integration Results

RT: 15.14

Response: 41561

Amount: 1

Conc: 257



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 14:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0072A-CS-SP | Lab Sample ID: 680-90852-33

Matrix: Solid | Lab File ID: 1DF07029.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 12:53

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

Sample wt/vol: 15.20(g) | Date Analyzed: 06/07/2013 21:48

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

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

% Moisture: 23.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138205 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	12	J	52	6.4
120-12-7	Anthracene	18		11	5.4
56-55-3	Benzo[a]anthracene	49		10	5.0
50-32-8	Benzo[a]pyrene	57		13	6.7
205-99-2	Benzo[b]fluoranthene	91		16	7.9
191-24-2	Benzo[g,h,i]perylene	53		26	5.7
207-08-9	Benzo[k]fluoranthene	33		10	4.6
218-01-9	Chrysene	72		12	5.8
53-70-3	Dibenz(a,h)anthracene	17	J	26	5.3
206-44-0	Fluoranthene	75		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	49		26	9.2
90-12-0	1-Methylnaphthalene	28	J	52	5.7
91-57-6	2-Methylnaphthalene	44	J	52	9.2
91-20-3	Naphthalene	36	J	52	5.7
85-01-8	Phenanthrene	64		10	5.0
129-00-0	Pyrene	70		26	4.8

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\1D060713.b\1DF07029.D
Lab Smp Id: 680-90852-A-33-A Client Smp ID: HP0072A-CS-SP
Inj Date : 07-JUN-2013 21:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-33-a
Misc Info : 680-90852-A-33-A
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: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	23.474	% 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	6.266	(1.000)	3018403	40.0000	
* 7 Acenaphthene-d10	164	7.930	7.935	(1.000)	1746608	40.0000	
* 11 Phenanthrene-d10	188	9.194	9.192	(1.000)	2771687	40.0000	
$ 15 o-Terphenyl	230	9.499	9.498	(1.033)	232878	5.73507	490
* 19 Chrysene-d12	240	11.556	11.554	(1.000)	2779236	40.0000	
* 24 Perylene-d12	264	13.471	13.458	(1.000)	2877328	40.0000	
2 Naphthalene	128	6.285	6.284	(1.004)	31432	0.42227	36
3 2-Methylnaphthalene	142	6.985	6.983	(1.115)	24296	0.51264	44
4 1-Methylnaphthalene	142	7.073	7.077	(1.129)	15715	0.32208	28
5 1,1'-Biphenyl	154	7.419	7.418	(0.936)	12715	0.21547	18
6 Acenaphthylene	152	7.807	7.805	(0.984)	9735	0.13443	12
9 Dibenzofuran	168	8.107	8.111	(1.022)	9025	0.14248	12
10 Fluorene	166	8.401	8.399	(1.059)	2843	0.05470	4.7
12 Phenanthrene	178	9.205	9.210	(1.001)	55894	0.74459	64

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.247	9.251	(1.006)	15567	0.21373	18
16 Fluoranthene	202	10.193	10.191	(1.109)	67158	0.87450	75
17 Pyrene	202	10.381	10.379	(0.898)	66353	0.81545	70
18 Benzo(a)anthracene	228	11.538	11.536	(0.998)	46559	0.56448	48
20 Chrysene	228	11.579	11.577	(1.002)	62206	0.83753	72
21 Benzo(b)fluoranthene	252	12.895	12.894	(0.957)	75976	1.05400	91
22 Benzo(k)fluoranthene	252	12.931	12.935	(0.960)	29387	0.38931	33
23 Benzo(a)pyrene	252	13.365	13.358	(0.992)	39918	0.65784	56
25 Indeno(1,2,3-cd)pyrene	276	15.104	15.103	(1.121)	31527	0.56958	49(M)
26 Dibenzo(a,h)anthracene	278	15.134	15.144	(1.123)	8915	0.20161	17(H)
27 Benzo(g,h,i)perylene	276	15.580	15.585	(1.157)	40611	0.62159	53

QC Flag Legend

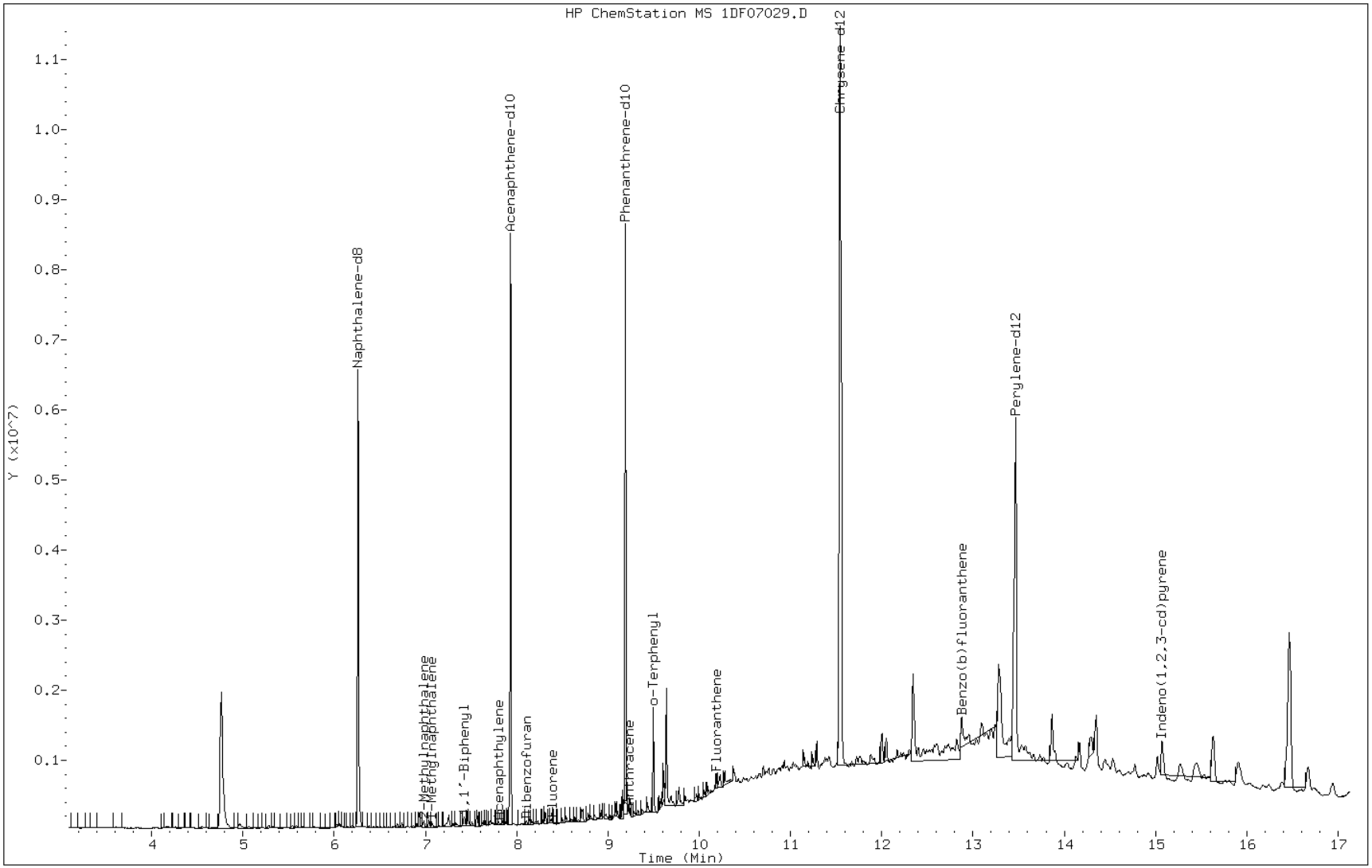
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC



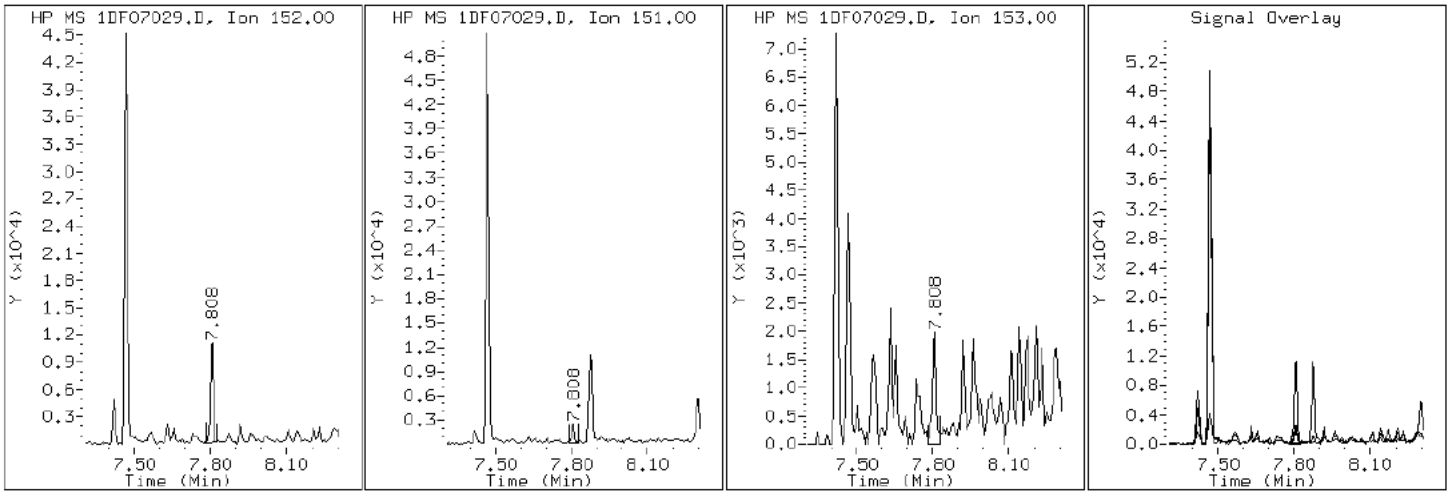
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

6 Acenaphthylene



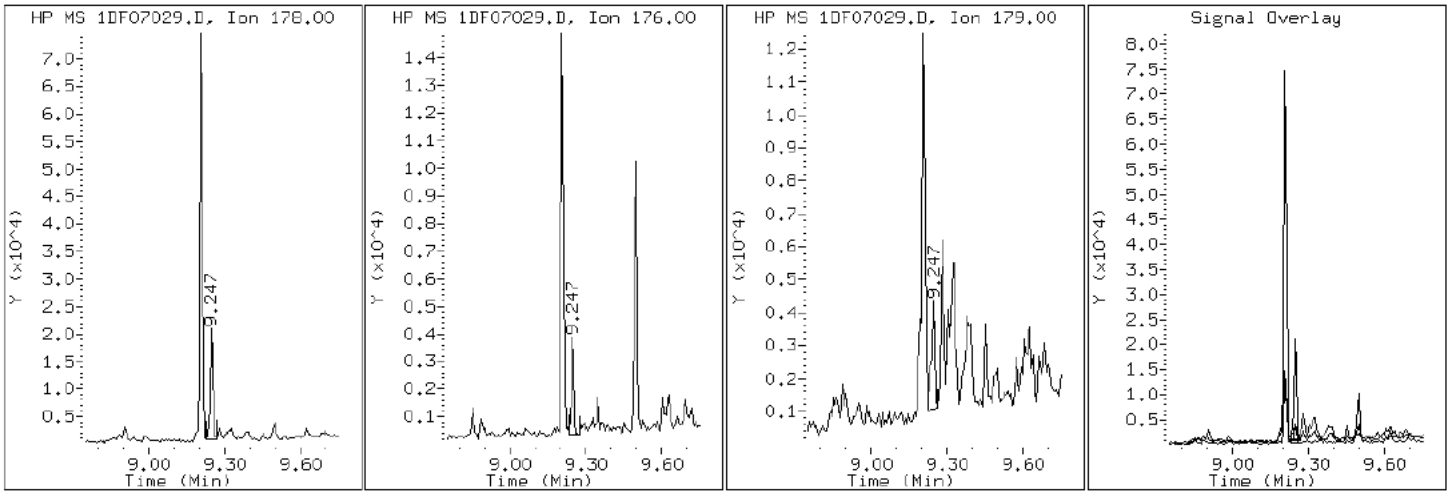
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

13 Anthracene



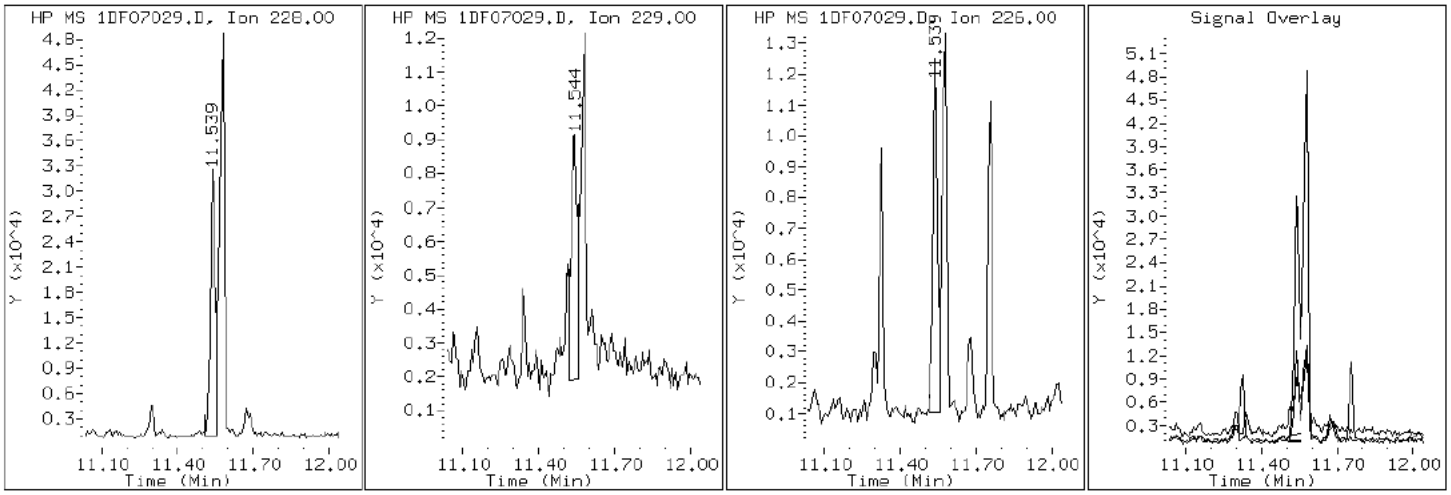
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

18 Benzo(a)anthracene



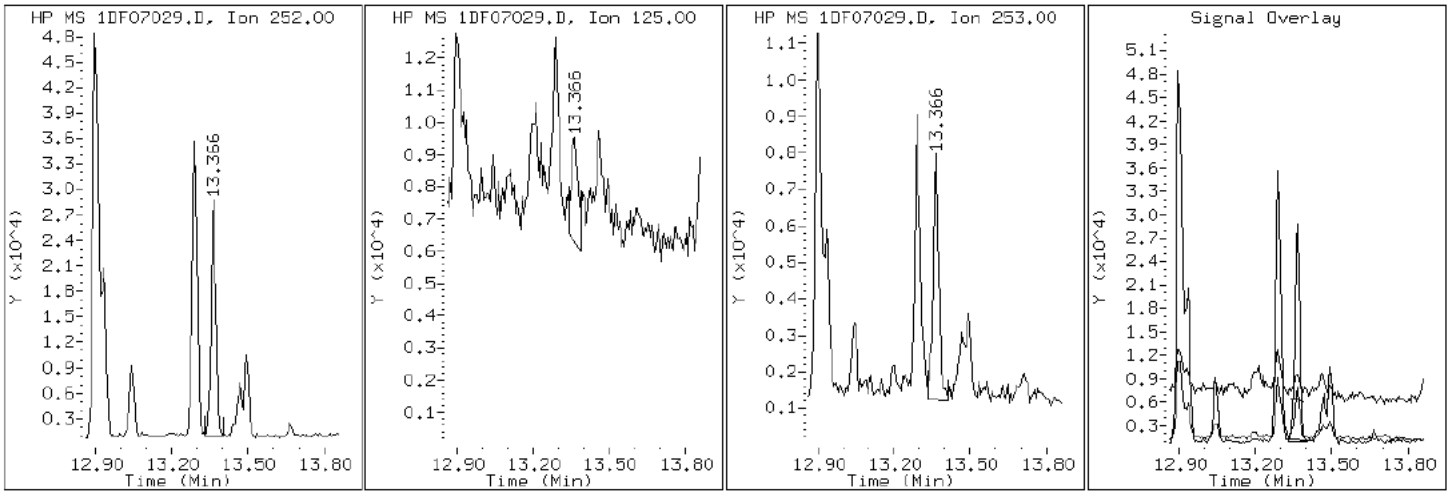
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

23 Benzo(a)pyrene



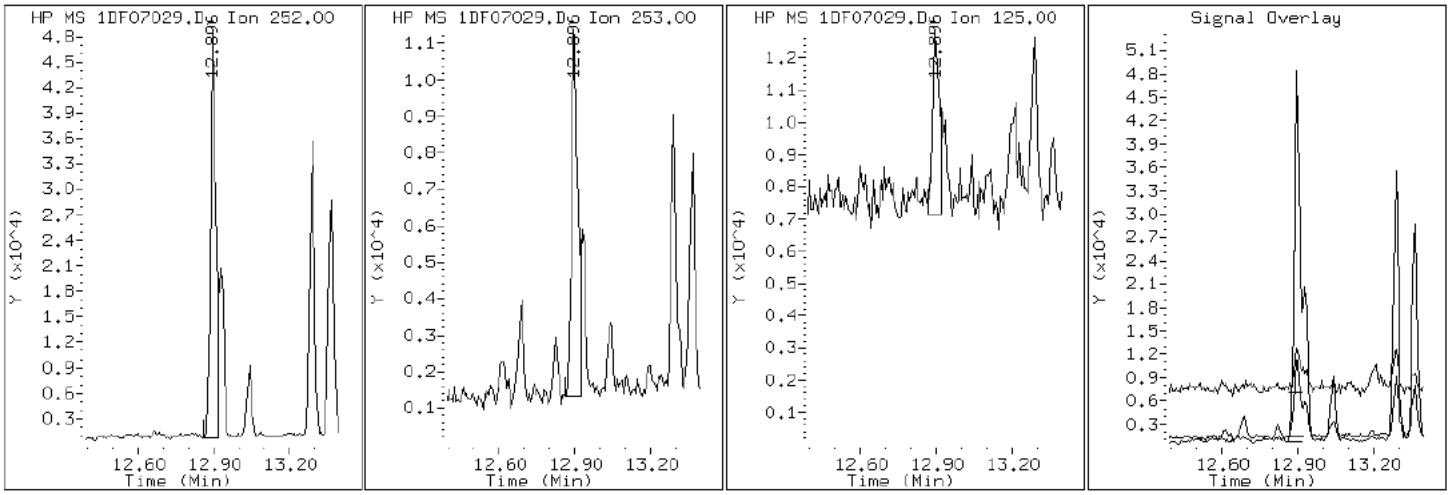
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

21 Benzo(b)fluoranthene



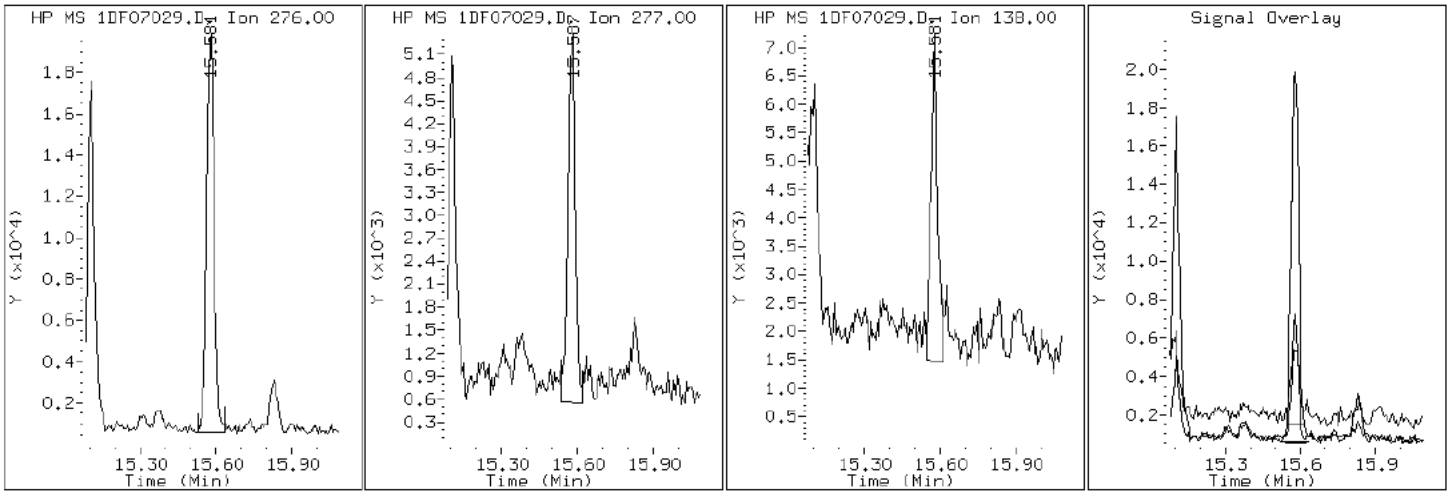
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

27 Benzo(g,h,i)perylene



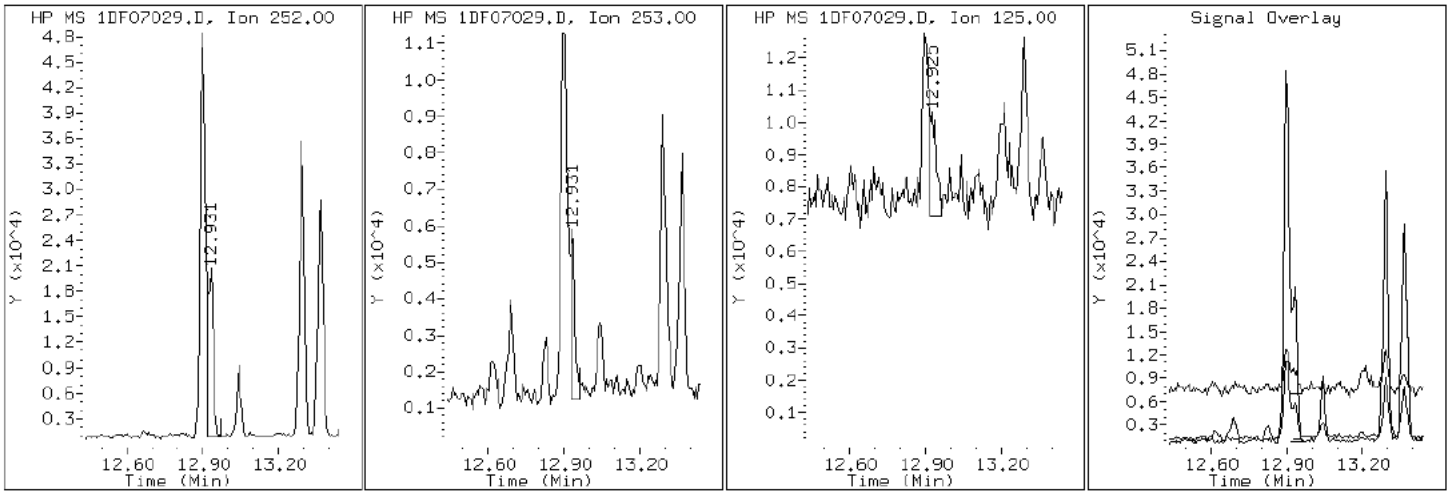
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

22 Benzo(k)fluoranthene



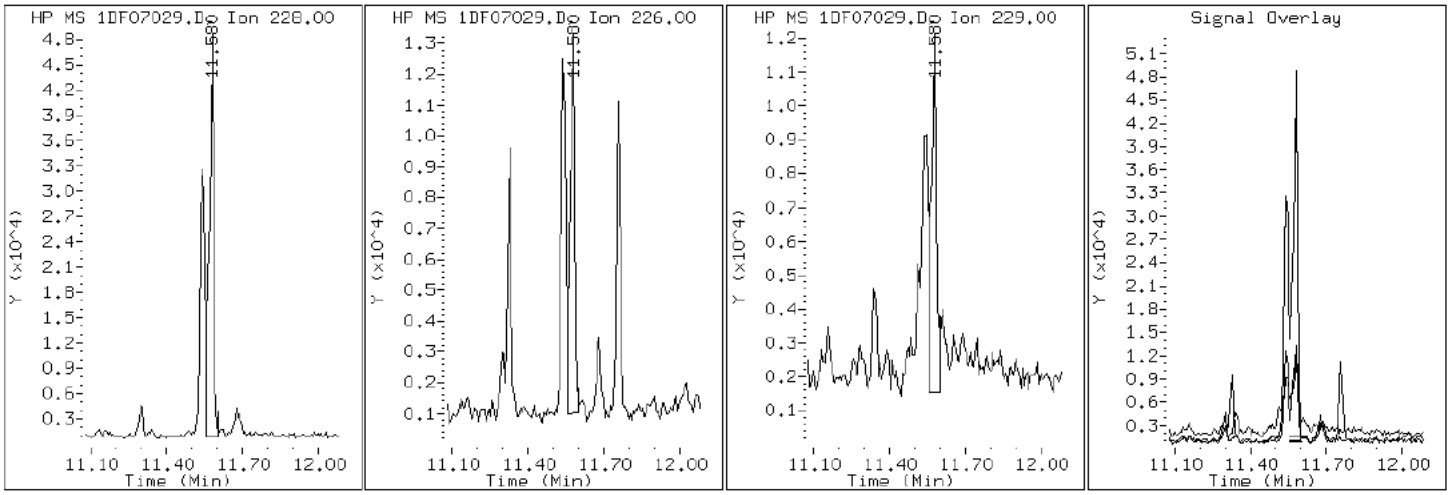
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

20 Chrysene



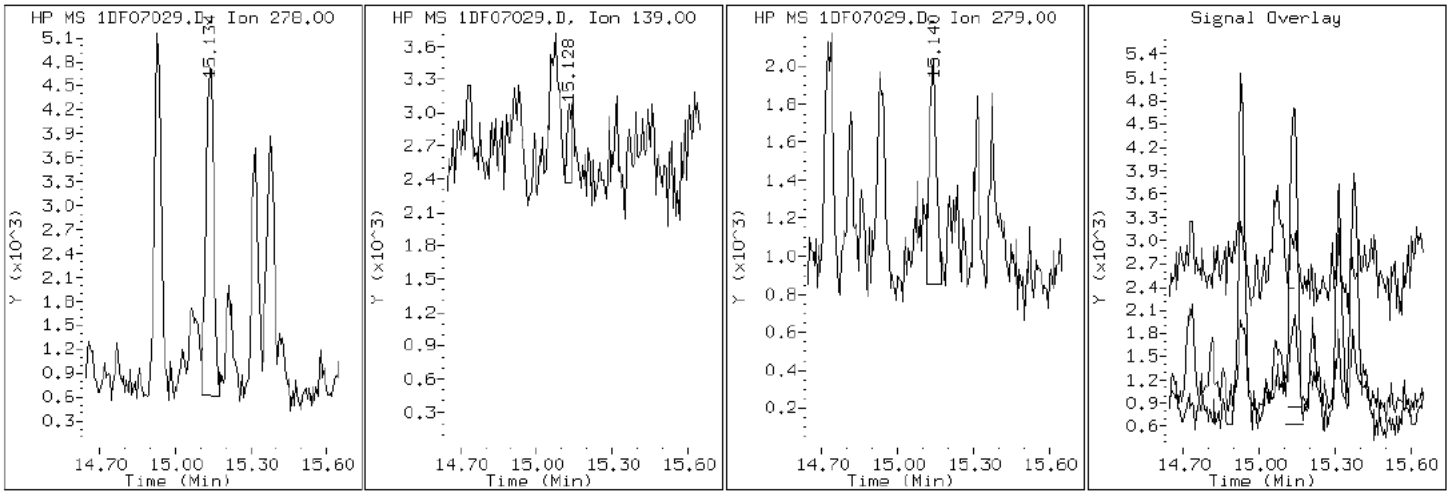
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

26 Dibenzo(a,h)anthracene



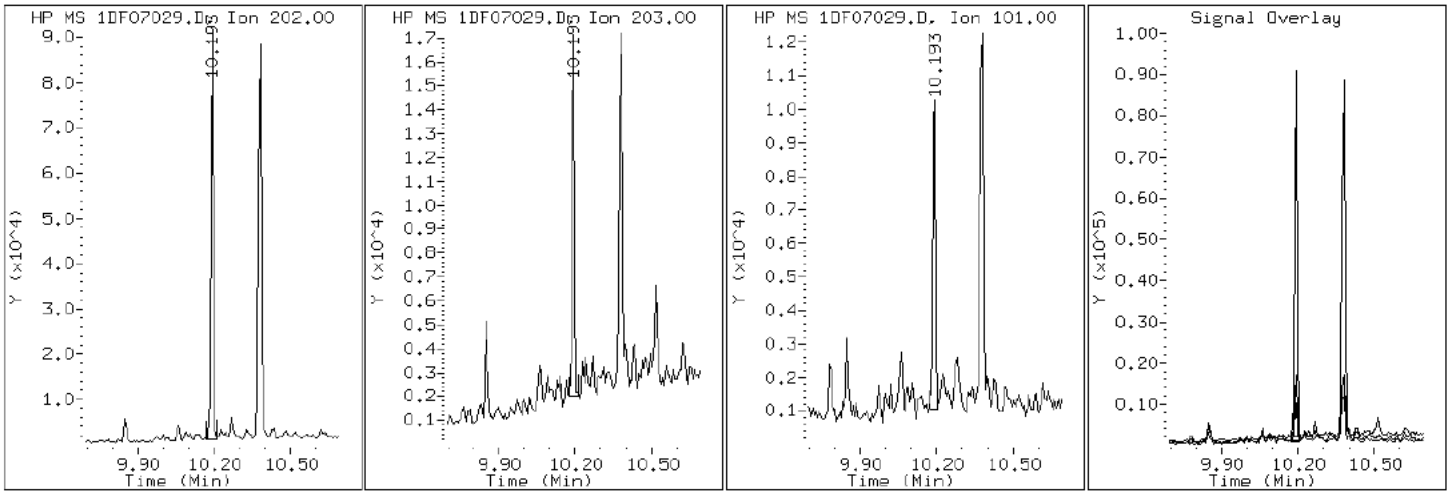
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

16 Fluoranthene



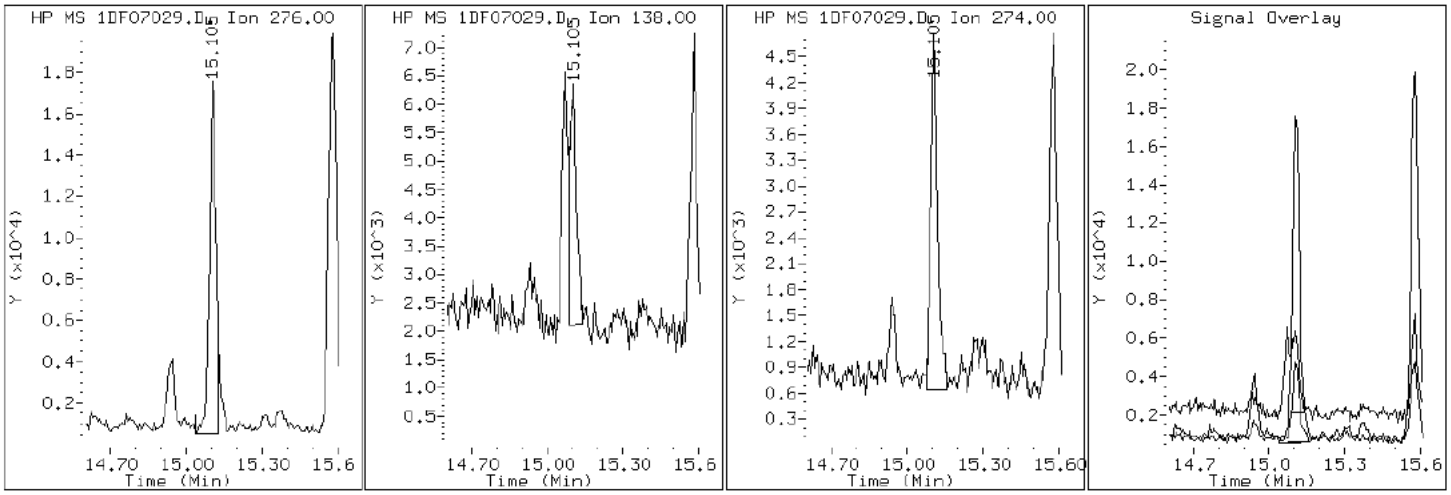
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

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



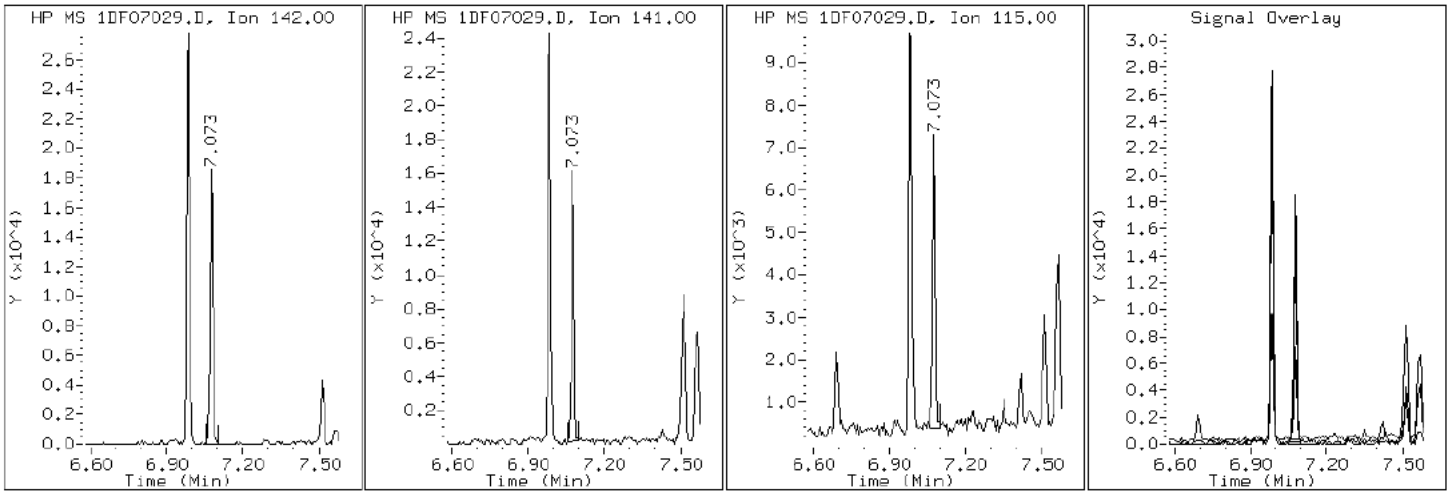
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

4 1-Methylnaphthalene



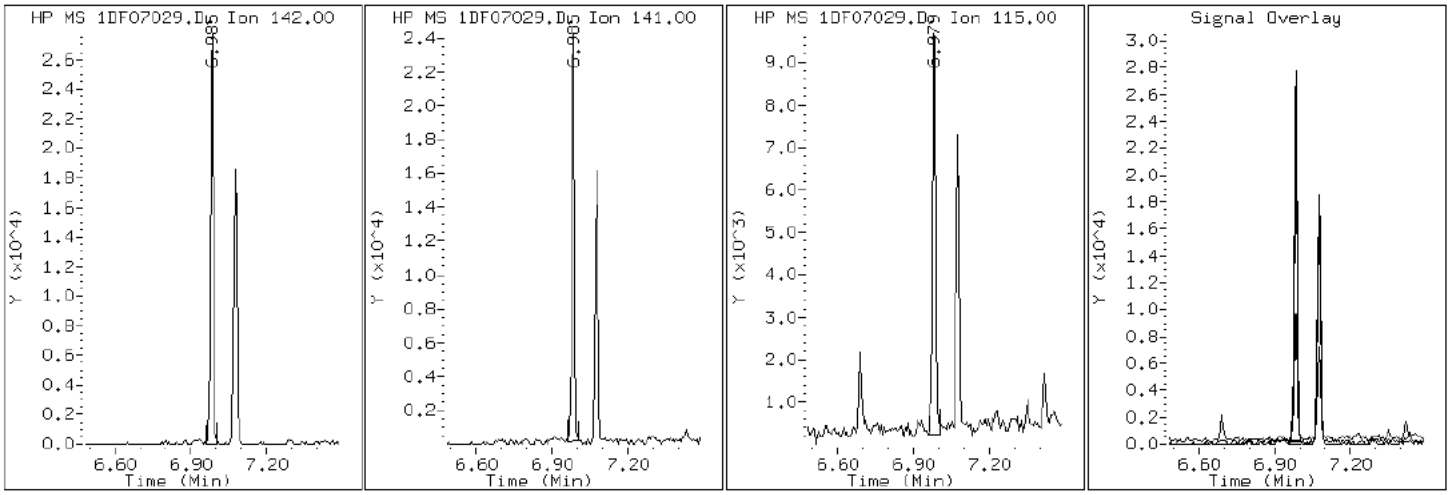
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

3 2-Methylnaphthalene



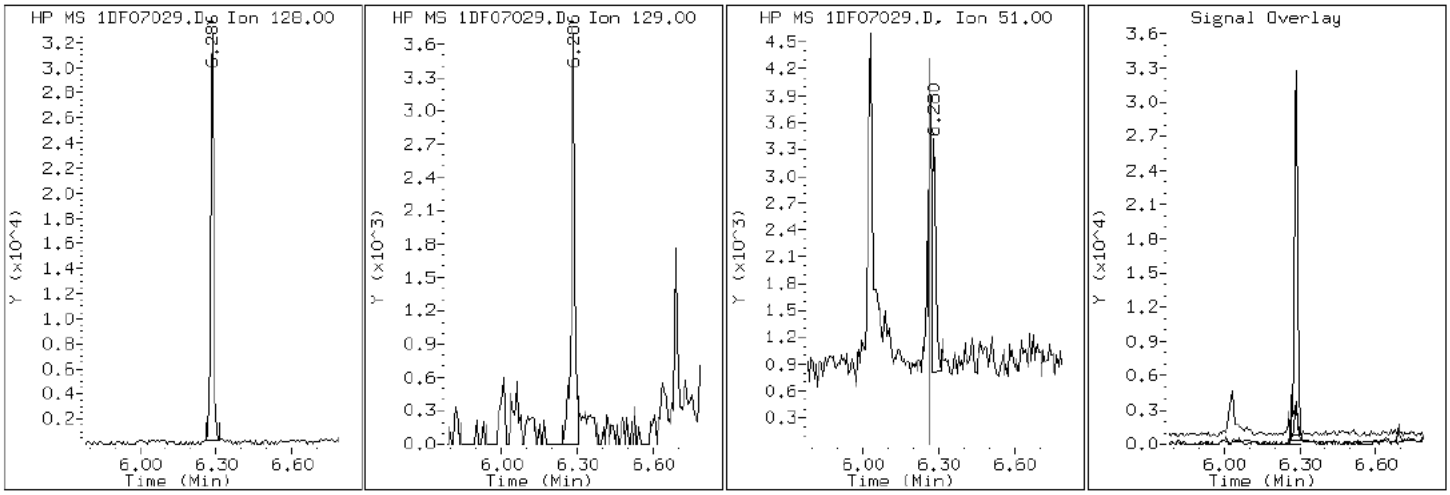
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

2 Naphthalene



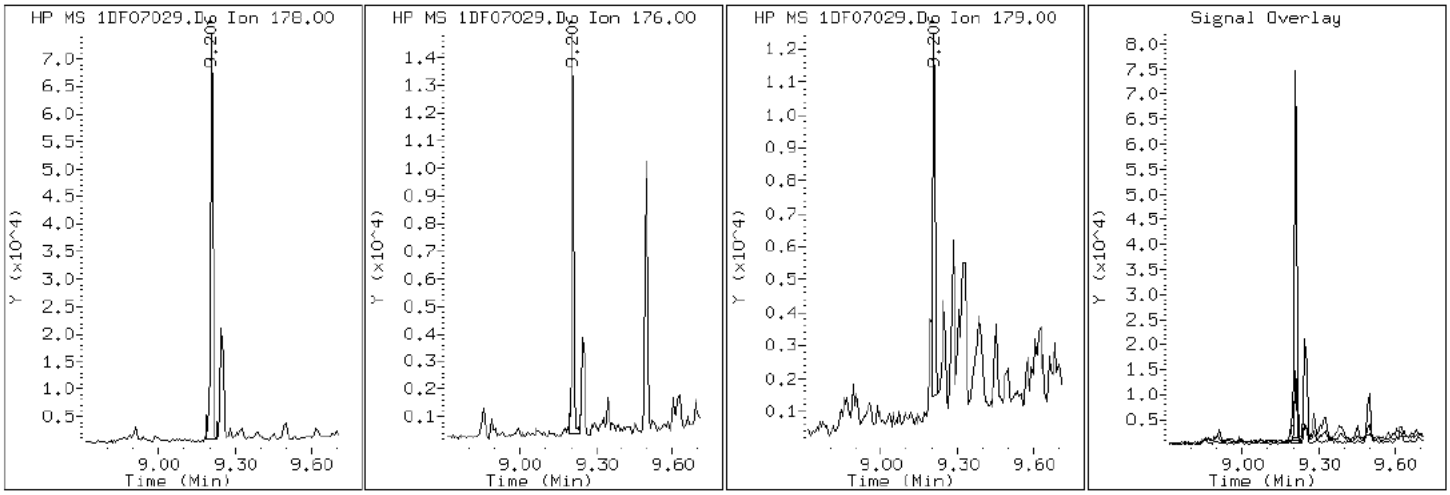
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

12 Phenanthrene



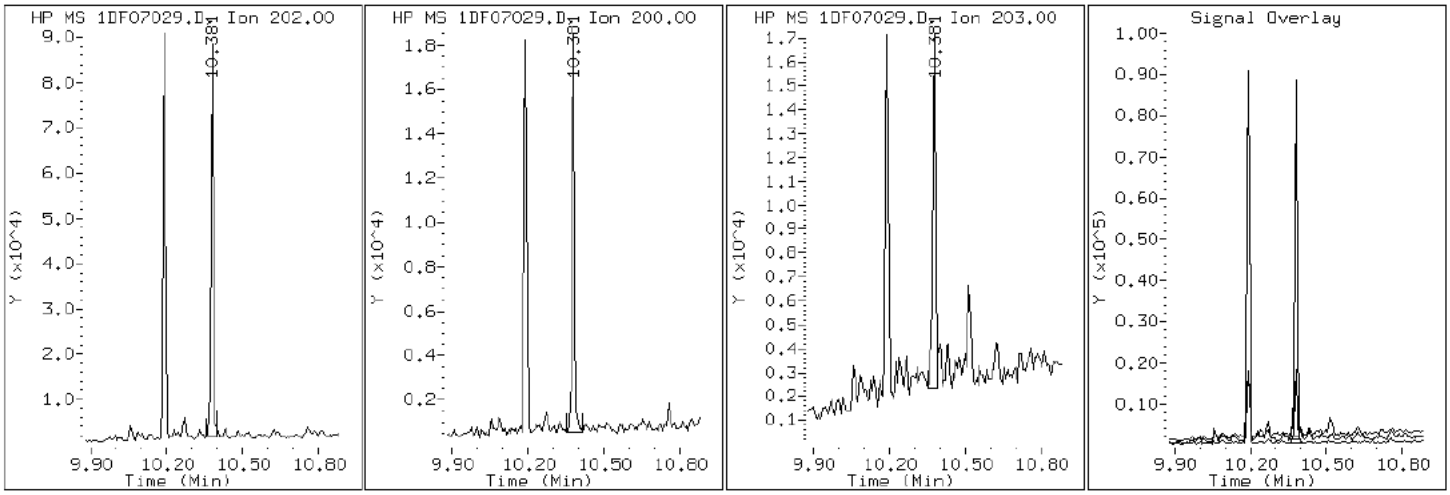
Data File: 1DF07029.D

Date: 07-JUN-2013 21:48

Client ID: HP0072A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-33-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF07029.D
Inj. Date and Time: 07-JUN-2013 21:48
Instrument ID: BSMSD.i
Client ID: HP0072A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

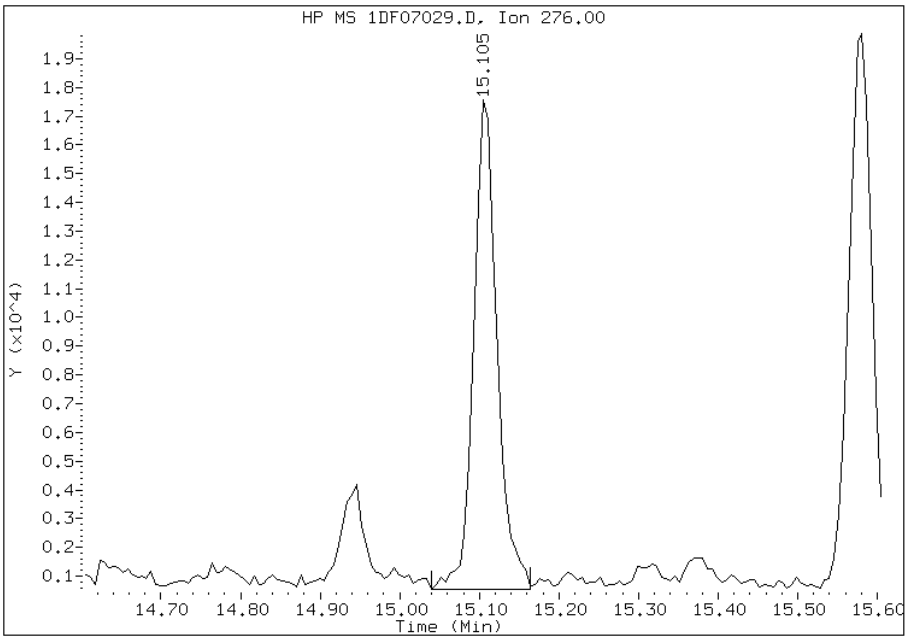
Processing Integration Results

RT: 15.10

Response: 34337

Amount: 1

Conc: 52



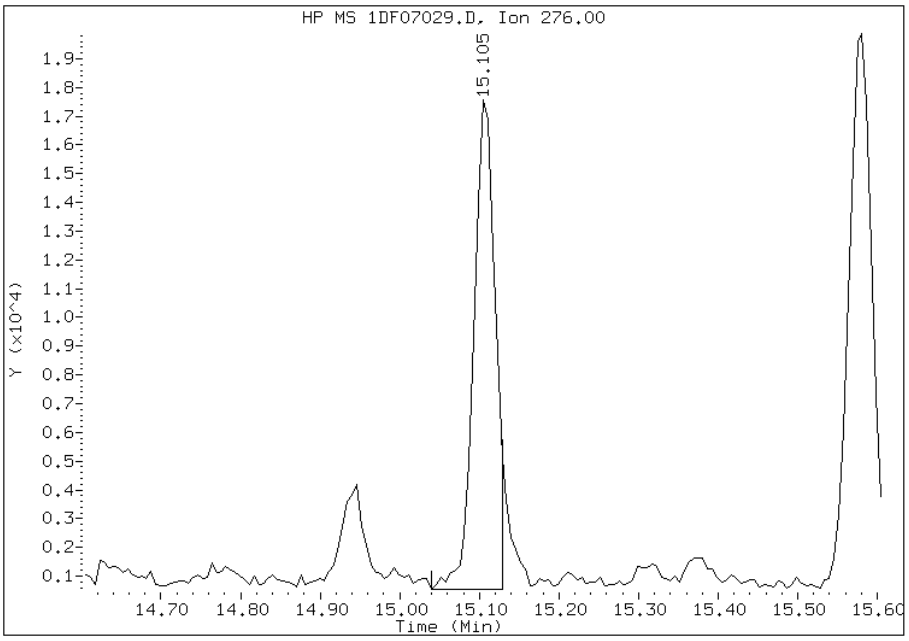
Manual Integration Results

RT: 15.10

Response: 31527

Amount: 1

Conc: 49



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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0072B-CS-SP | Lab Sample ID: 680-90852-34

Matrix: Solid | Lab File ID: 1DF07030.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:06

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

Sample wt/vol: 14.98(g) | Date Analyzed: 06/07/2013 22:10

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

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

% Moisture: 22.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138205 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	8.1	J	52	6.5
120-12-7	Anthracene	13		11	5.4
56-55-3	Benzo[a]anthracene	40		10	5.1
50-32-8	Benzo[a]pyrene	53		13	6.7
205-99-2	Benzo[b]fluoranthene	82		16	7.9
191-24-2	Benzo[g,h,i]perylene	40		26	5.7
207-08-9	Benzo[k]fluoranthene	24		10	4.7
218-01-9	Chrysene	61		12	5.8
53-70-3	Dibenz(a,h)anthracene	17	J	26	5.3
206-44-0	Fluoranthene	63		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	45		26	9.2
90-12-0	1-Methylnaphthalene	39	J	52	5.7
91-57-6	2-Methylnaphthalene	65		52	9.2
91-20-3	Naphthalene	41	J	52	5.7
85-01-8	Phenanthrene	62		10	5.1
129-00-0	Pyrene	53		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07030.D
Lab Smp Id: 680-90852-A-34-A Client Smp ID: HP0072B-CS-SP
Inj Date : 07-JUN-2013 22:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-34-a
Misc Info : 680-90852-A-34-A
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: 30
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	14.980	Weight Extracted
M	22.699	% 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	6.266	(1.000)	3121068	40.0000	
* 7 Acenaphthene-d10	164	7.935	7.935	(1.000)	1788941	40.0000	
* 11 Phenanthrene-d10	188	9.192	9.192	(1.000)	2851986	40.0000	
$ 15 o-Terphenyl	230	9.498	9.498	(1.033)	244374	5.84874	500
* 19 Chrysene-d12	240	11.554	11.554	(1.000)	2789574	40.0000	
* 24 Perylene-d12	264	13.464	13.458	(1.000)	2898230	40.0000	
2 Naphthalene	128	6.284	6.284	(1.003)	36632	0.47594	41
3 2-Methylnaphthalene	142	6.983	6.983	(1.114)	36630	0.74746	64
4 1-Methylnaphthalene	142	7.077	7.077	(1.129)	22955	0.45499	39
5 1,1'-Biphenyl	154	7.418	7.418	(0.935)	7183	0.11884	10
6 Acenaphthylene	152	7.805	7.805	(0.984)	6942	0.09359	8.1
9 Dibenzofuran	168	8.105	8.111	(1.021)	13490	0.20793	18
10 Fluorene	166	8.399	8.399	(1.058)	2409	0.04525	3.9
12 Phenanthrene	178	9.210	9.210	(1.002)	55033	0.71248	62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.251	9.251	(1.006)	11595	0.15471	13
16 Fluoranthene	202	10.191	10.191	(1.109)	57414	0.72657	63
17 Pyrene	202	10.379	10.379	(0.898)	49788	0.60961	53
18 Benzo(a)anthracene	228	11.536	11.536	(0.998)	37950	0.45840	40
20 Chrysene	228	11.578	11.577	(1.002)	52543	0.70481	61
21 Benzo(b)fluoranthene	252	12.888	12.894	(0.957)	68641	0.94538	82
22 Benzo(k)fluoranthene	252	12.929	12.935	(0.960)	21490	0.28264	24
23 Benzo(a)pyrene	252	13.358	13.358	(0.992)	37072	0.61422	53
25 Indeno(1,2,3-cd)pyrene	276	15.097	15.103	(1.121)	27704	0.51579	44(M)
26 Dibenzo(a,h)anthracene	278	15.126	15.144	(1.123)	8425	0.19360	17
27 Benzo(g,h,i)perylene	276	15.567	15.585	(1.156)	30129	0.45783	40

QC Flag Legend

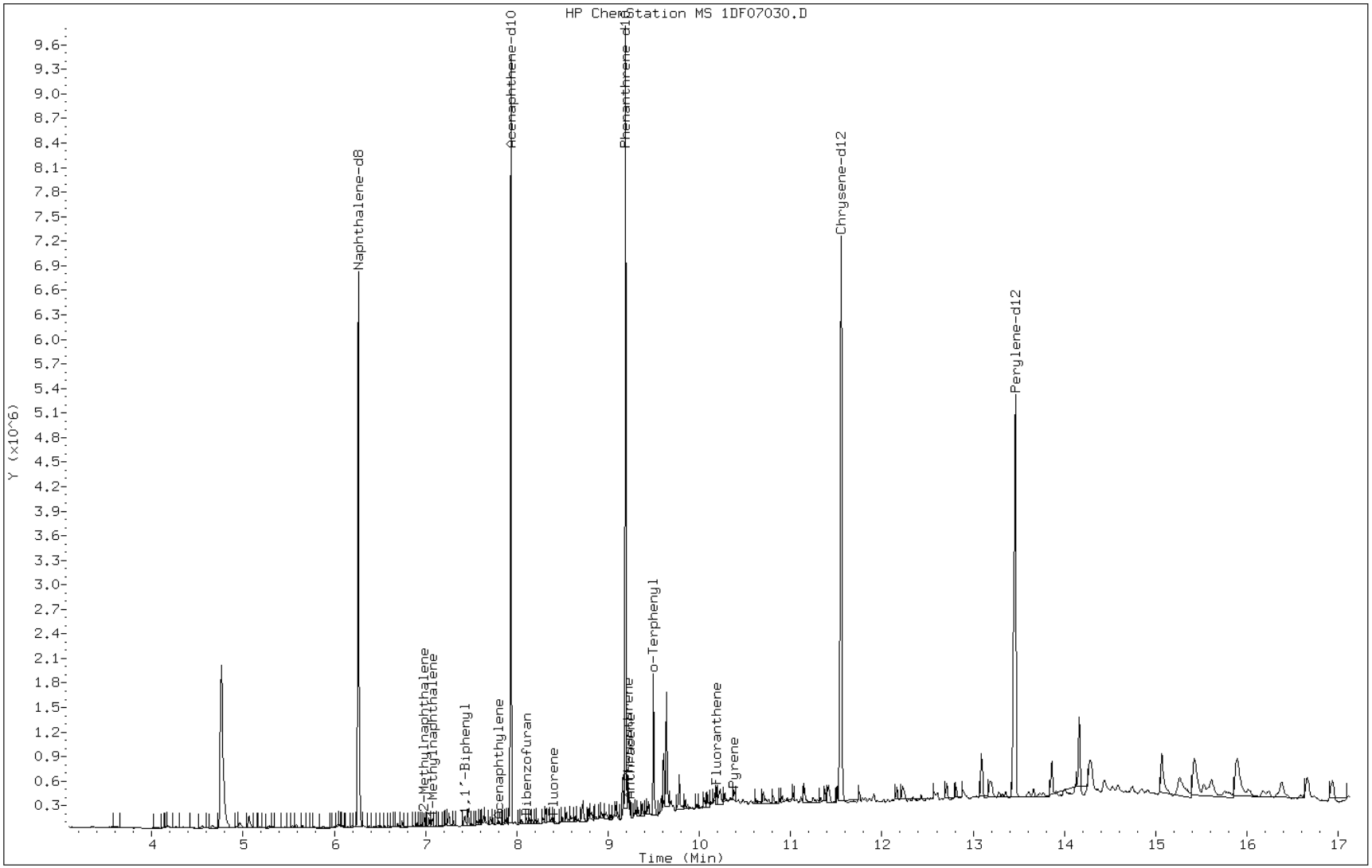
M - Compound response manually integrated.

Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC



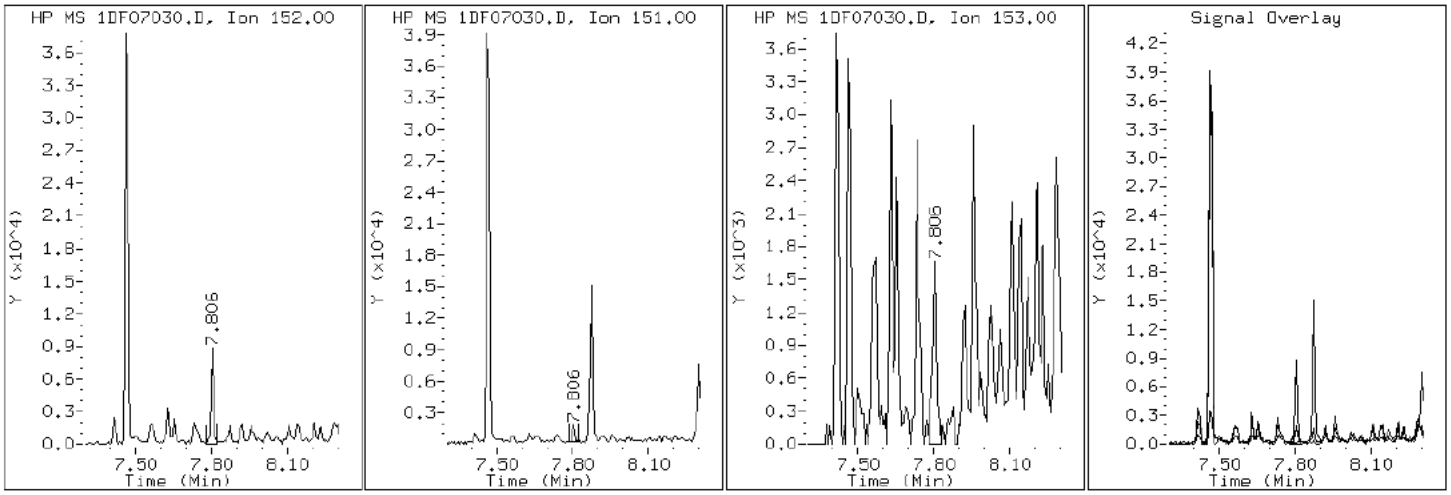
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

6 Acenaphthylene



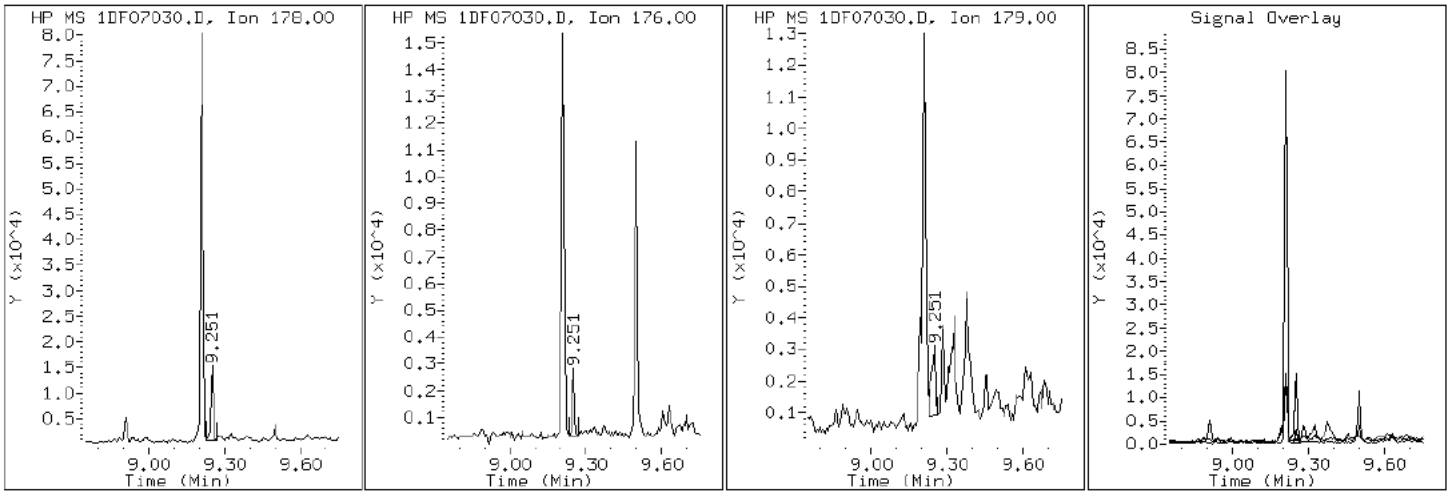
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

13 Anthracene



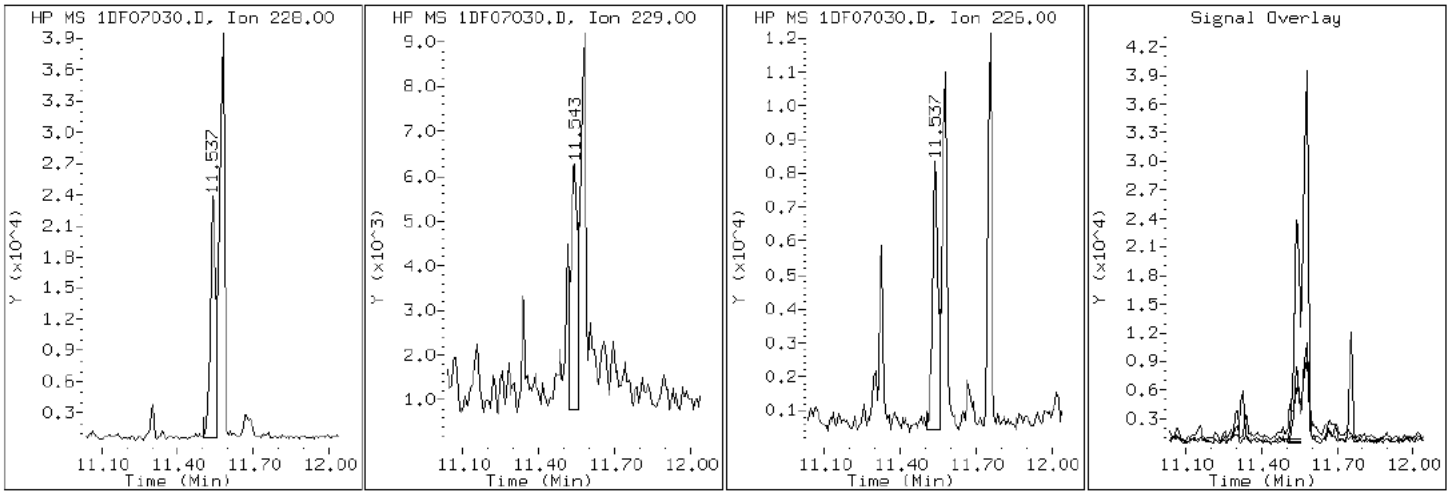
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

18 Benzo(a)anthracene



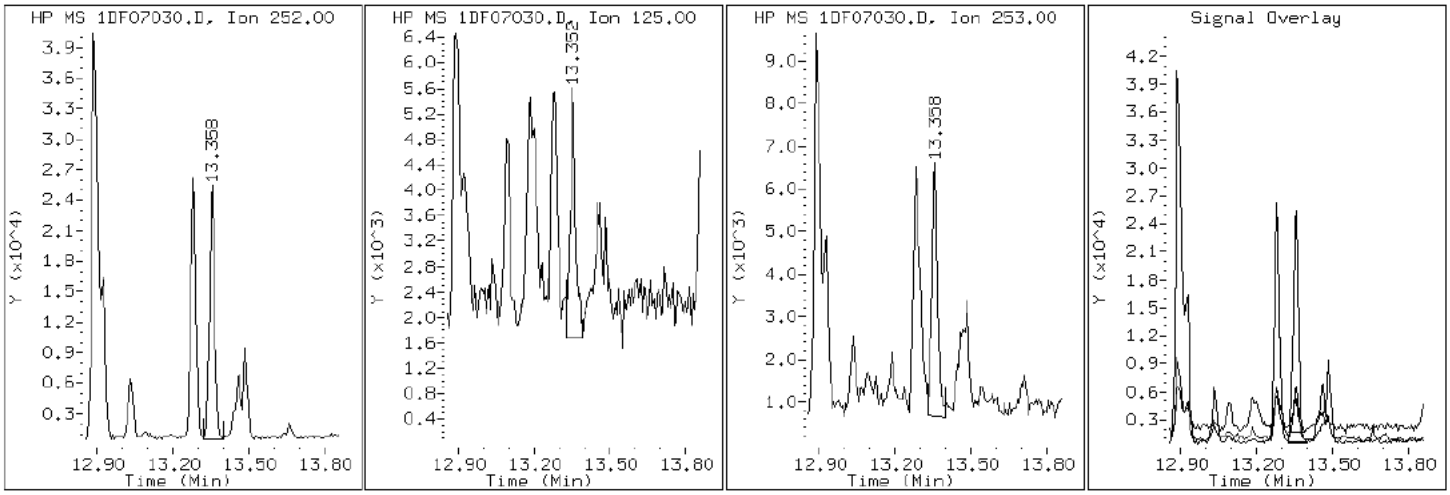
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

23 Benzo(a)pyrene



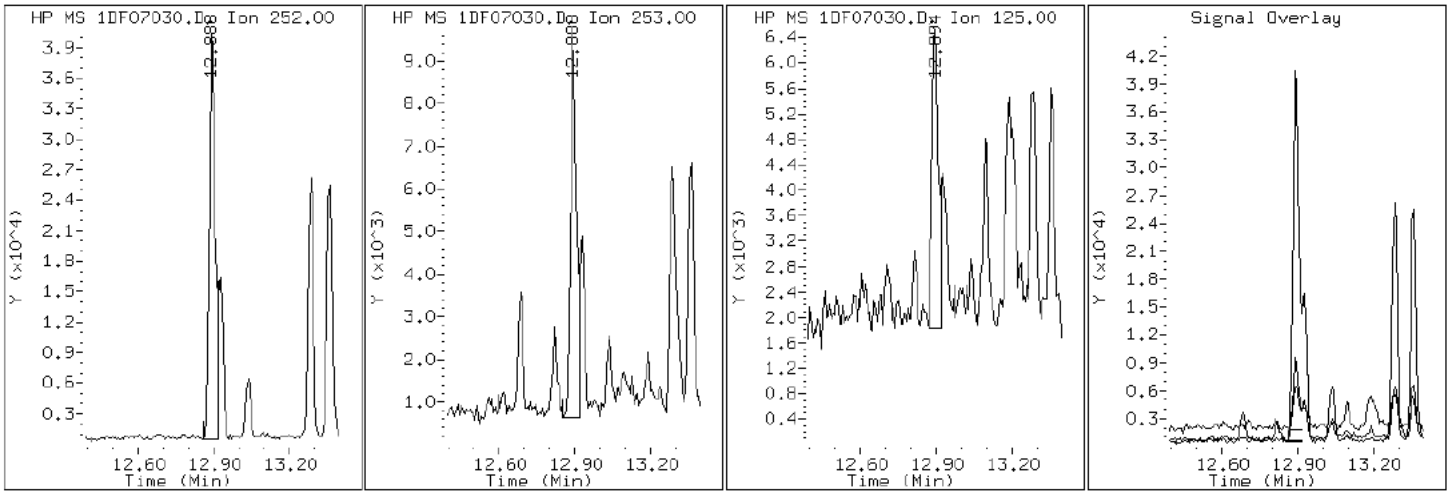
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

21 Benzo(b)fluoranthene



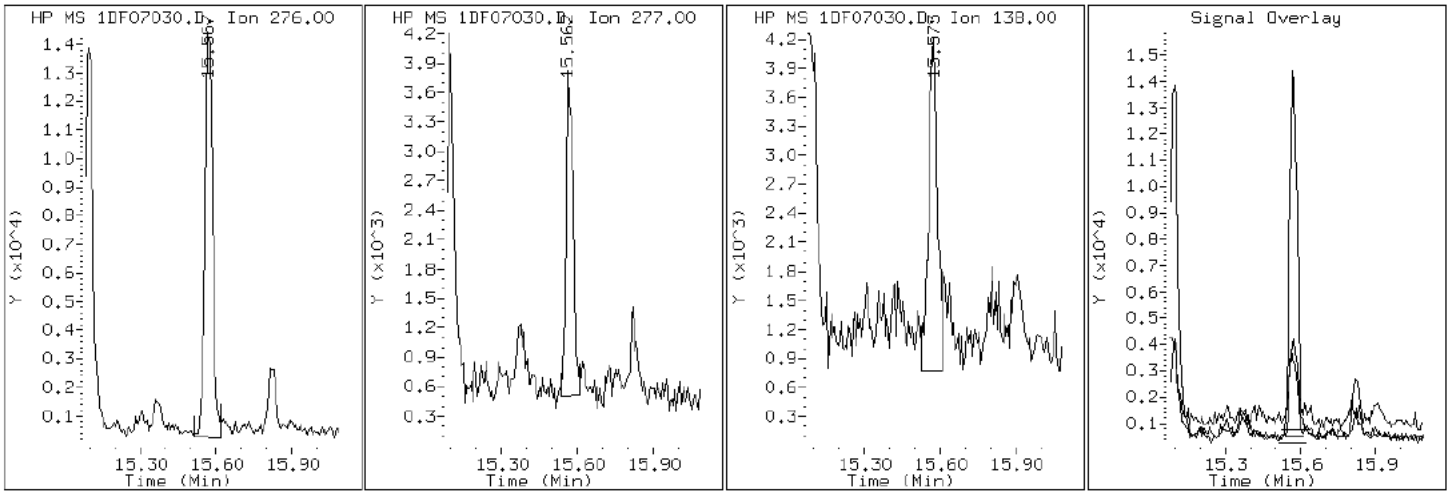
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

27 Benzo(g,h,i)perylene



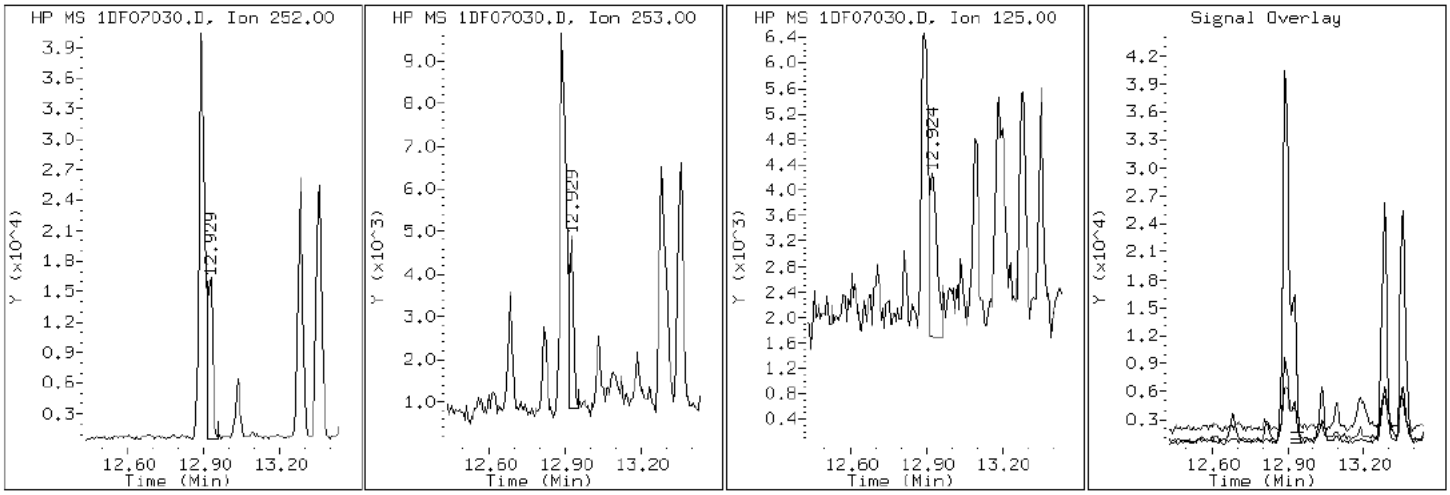
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

22 Benzo(k)fluoranthene



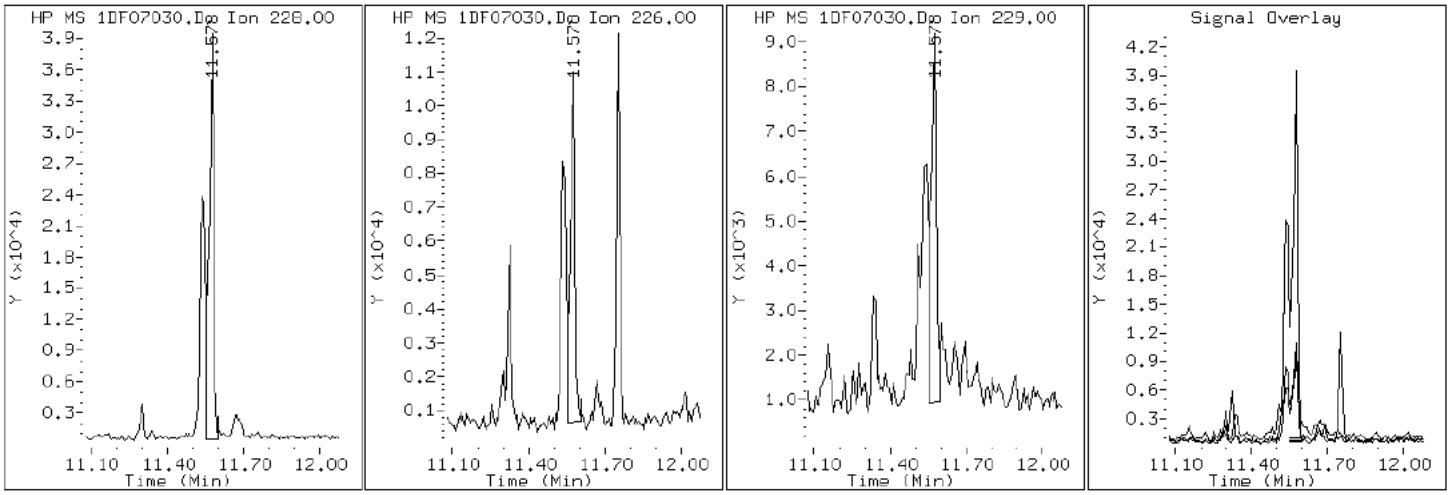
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

20 Chrysene



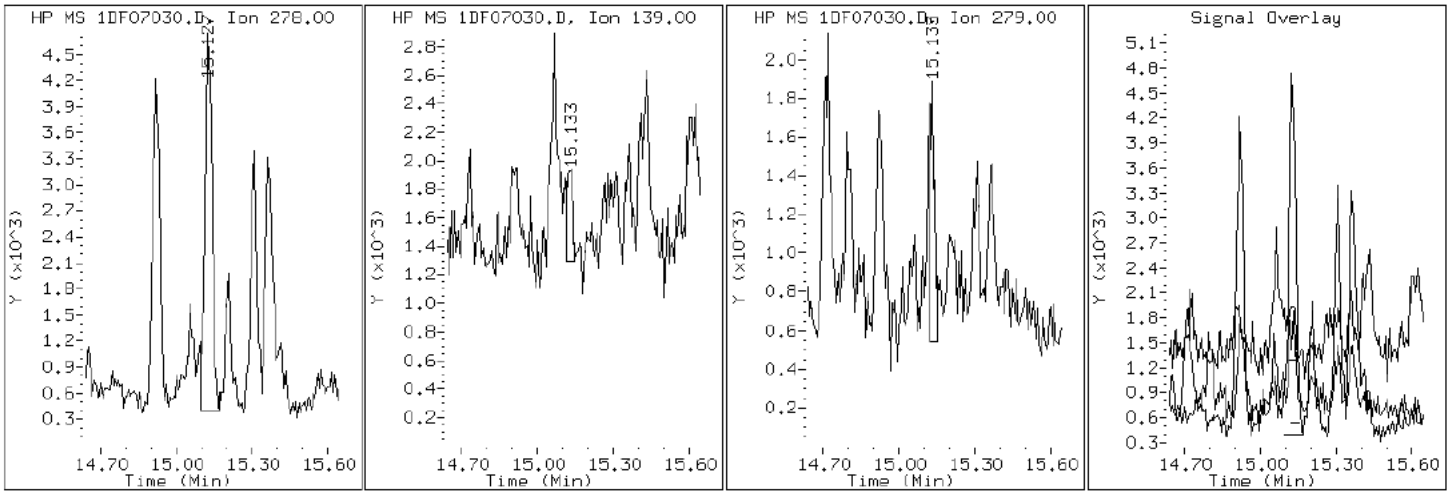
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

26 Dibenzo(a,h)anthracene



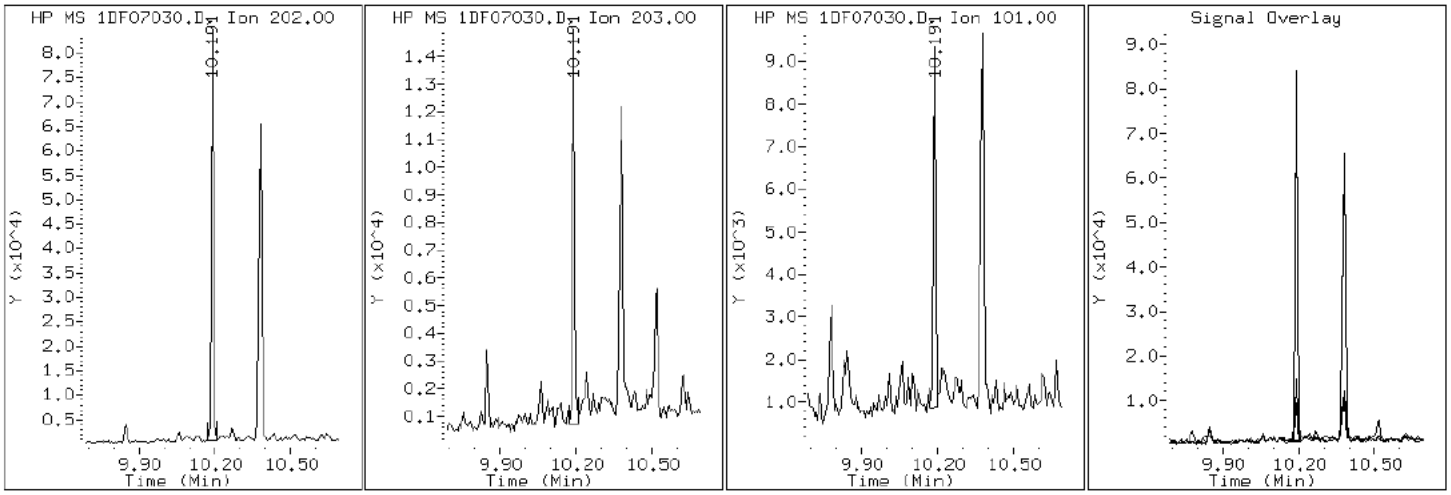
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

16 Fluoranthene



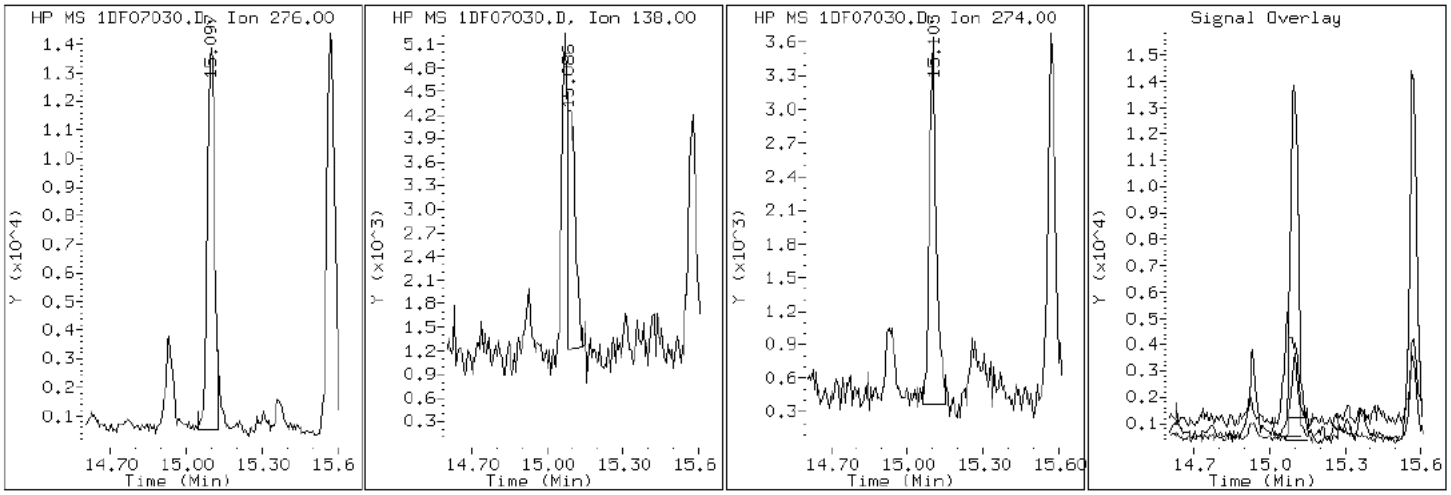
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

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



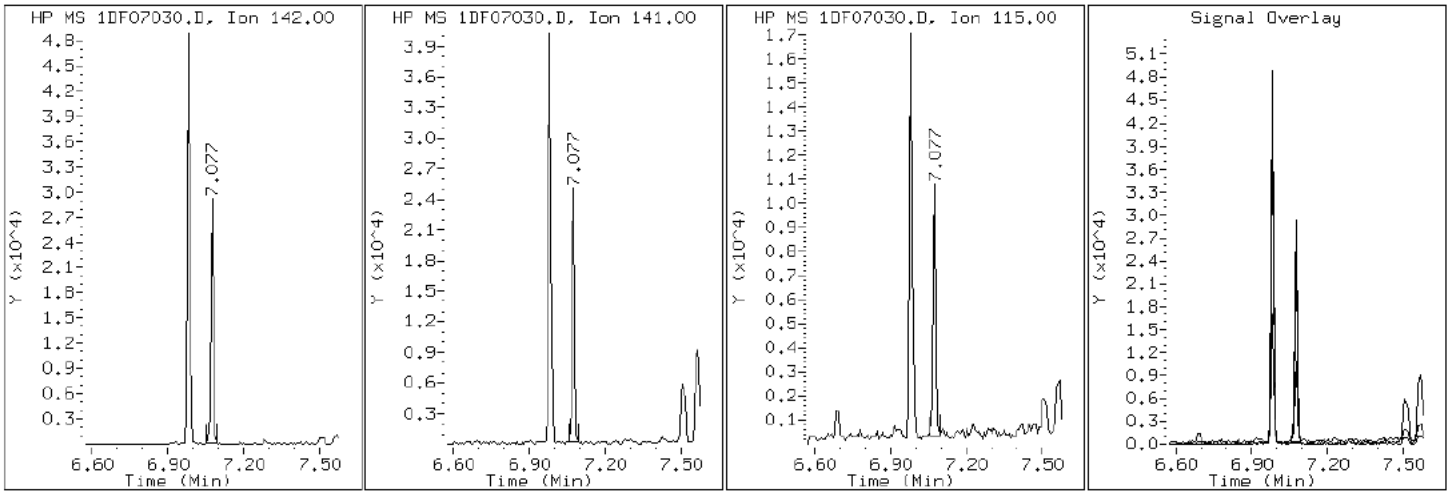
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

4 1-Methylnaphthalene



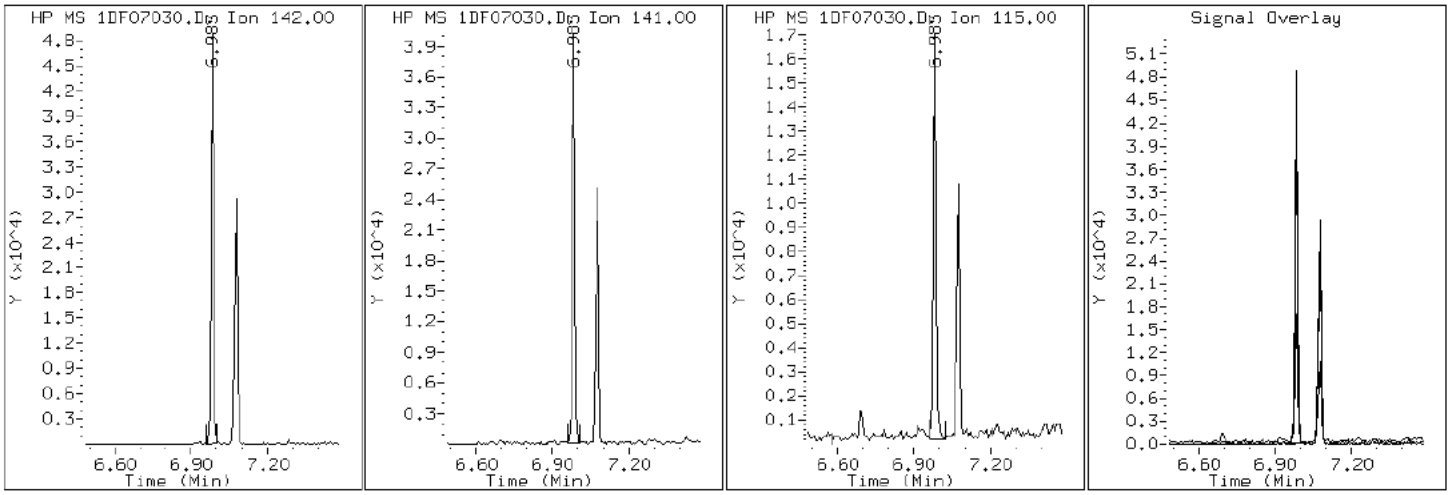
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

3 2-Methylnaphthalene



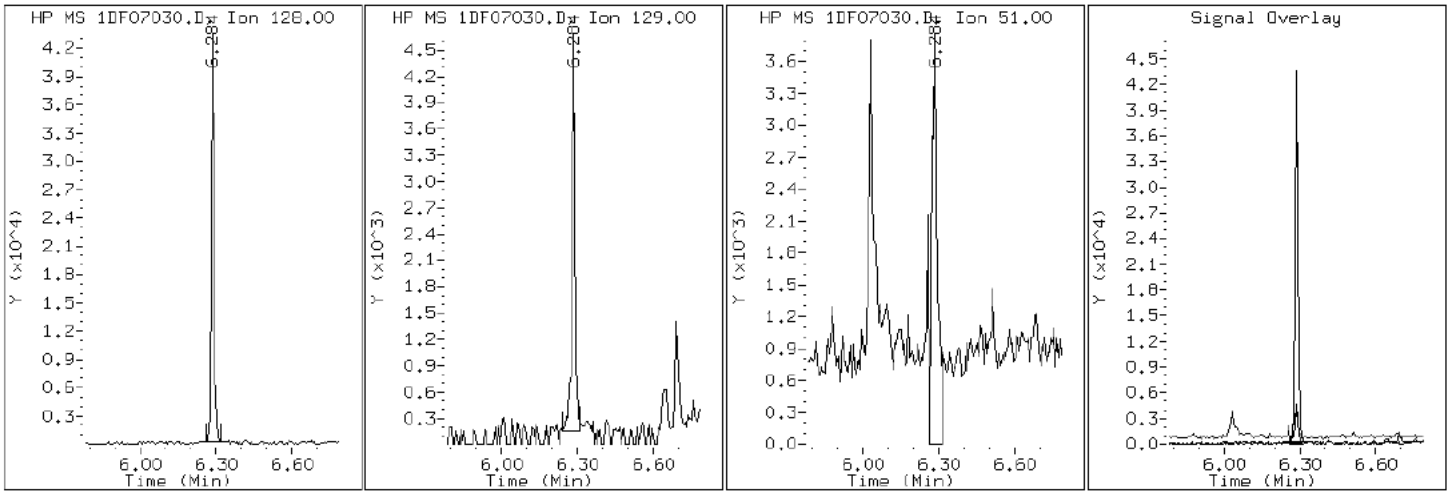
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

2 Naphthalene



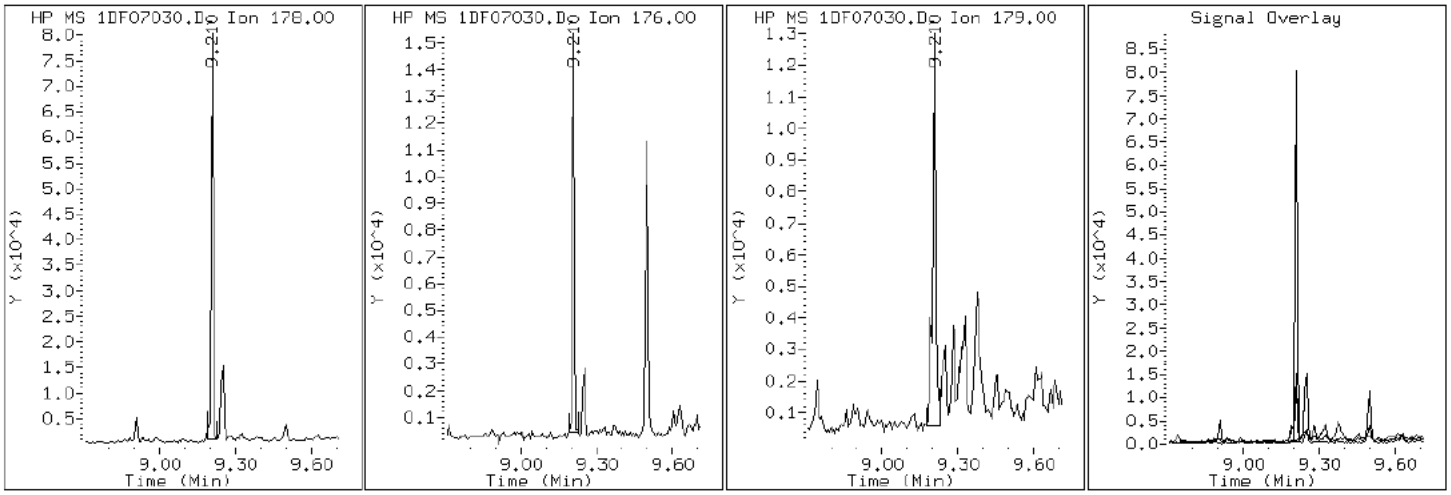
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

12 Phenanthrene



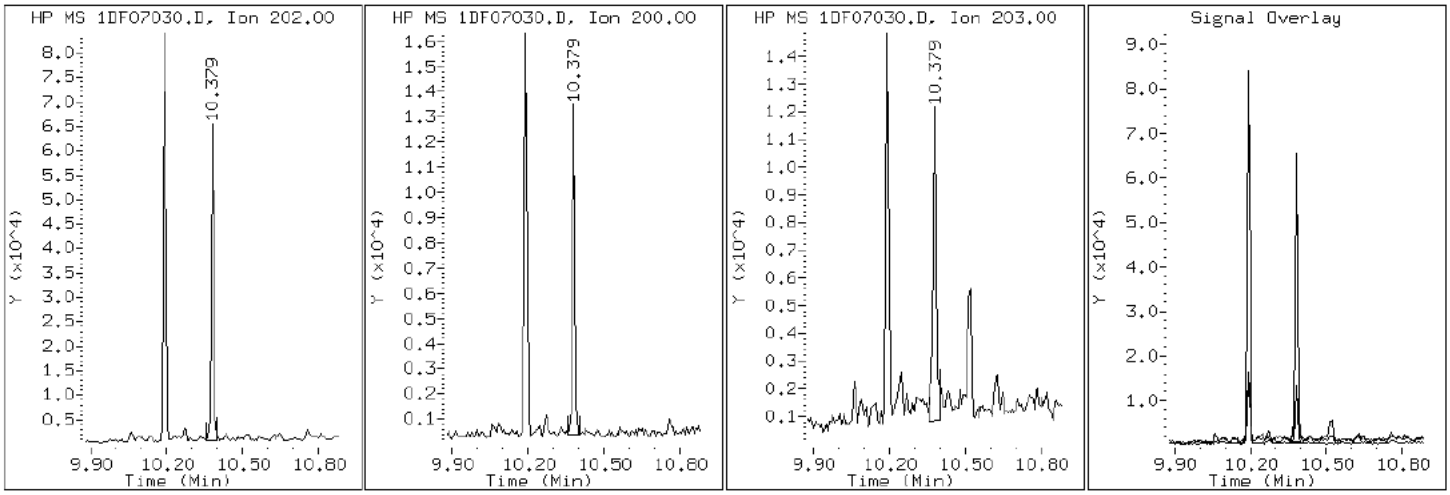
Data File: 1DF07030.D

Date: 07-JUN-2013 22:10

Client ID: HP0072B-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-34-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF07030.D
Inj. Date and Time: 07-JUN-2013 22:10
Instrument ID: BSMSD.i
Client ID: HP0072B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

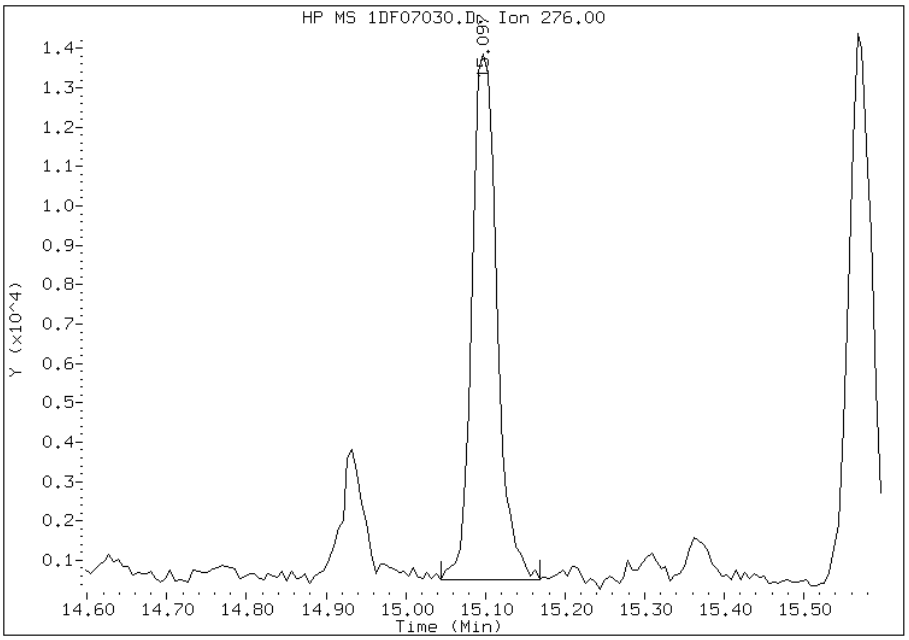
Processing Integration Results

RT: 15.10

Response: 29060

Amount: 1

Conc: 46



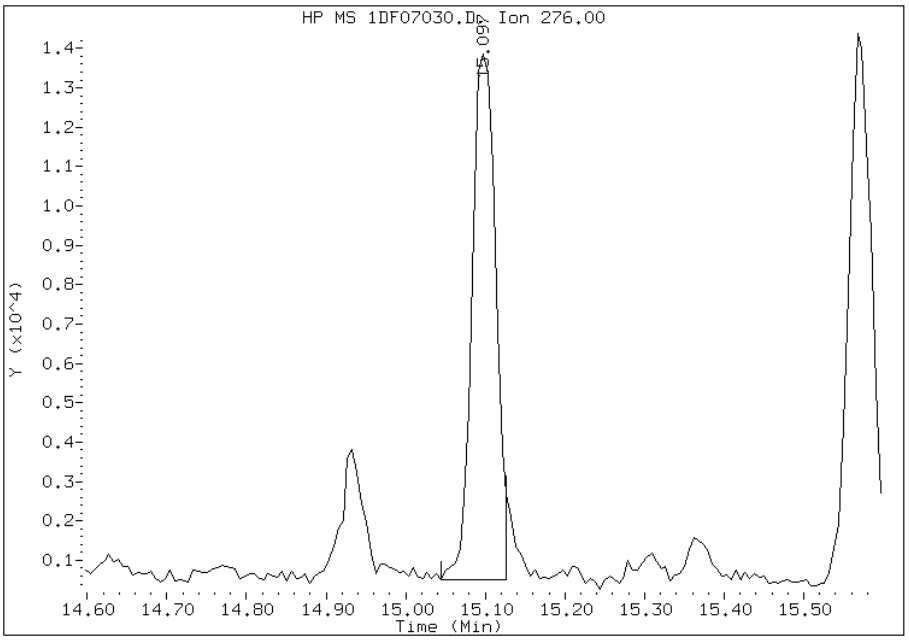
Manual Integration Results

RT: 15.10

Response: 27704

Amount: 1

Conc: 45



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0125A-CS-SP | Lab Sample ID: 680-90852-35

Matrix: Solid | Lab File ID: 1DF07031.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:39

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

Sample wt/vol: 14.94(g) | Date Analyzed: 06/07/2013 22:33

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

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

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138205 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2400		480	97
208-96-8	Acenaphthylene	2400		190	24
120-12-7	Anthracene	6300		41	20
56-55-3	Benzo[a]anthracene	11000		39	19
50-32-8	Benzo[a]pyrene	9500		50	25
205-99-2	Benzo[b]fluoranthene	14000		59	29
191-24-2	Benzo[g,h,i]perylene	5800		97	21
207-08-9	Benzo[k]fluoranthene	5500		39	17
218-01-9	Chrysene	11000		44	22
53-70-3	Dibenz(a,h)anthracene	1600		97	20
86-73-7	Fluorene	3500		97	20
193-39-5	Indeno[1,2,3-cd]pyrene	5500		97	34
90-12-0	1-Methylnaphthalene	1700		190	21
91-57-6	2-Methylnaphthalene	1500		190	34
91-20-3	Naphthalene	1700		190	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07031.D
Lab Smp Id: 680-90852-A-35-A Client Smp ID: HP0125A-CS-SP
Inj Date : 07-JUN-2013 22:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-35-a
Misc Info : 680-90852-A-35-A
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: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	16.939	% 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	6.266	(1.000)	3028673	40.0000	
* 7	Acenaphthene-d10	164	7.934	7.935	(1.000)	1748912	40.0000	
* 11	Phenanthrene-d10	188	9.198	9.192	(1.000)	2847162	40.0000	
$ 15	o-Terphenyl	230	9.503	9.498	(1.033)	88272	2.11624	680
* 19	Chrysene-d12	240	11.565	11.554	(1.000)	2865022	40.0000	
* 24	Perylene-d12	264	13.475	13.458	(1.000)	3048490	40.0000	
2	Naphthalene	128	6.283	6.284	(1.003)	384107	5.14278	1600
3	2-Methylnaphthalene	142	6.983	6.983	(1.114)	221513	4.65800	1500
4	1-Methylnaphthalene	142	7.077	7.077	(1.129)	258434	5.27870	1700
5	1,1'-Biphenyl	154	7.417	7.418	(0.935)	65406	1.10693	360
6	Acenaphthylene	152	7.805	7.805	(0.984)	532039	7.33721	2400
8	Acenaphthene	154	7.958	7.958	(1.003)	343665	7.47101	2400
9	Dibenzofuran	168	8.105	8.111	(1.021)	342438	5.39894	1700
10	Fluorene	166	8.404	8.399	(1.059)	561551	10.7893	3500

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.221	9.210	(1.003)	7208701	93.4853	30000(A)
13 Anthracene	178	9.256	9.251	(1.006)	1458888	19.4990	6300
16 Fluoranthene	202	10.208	10.191	(1.110)	7049115	89.3572	29000(A)
17 Pyrene	202	10.396	10.379	(0.899)	5964541	71.1072	23000(A)
18 Benzo(a)anthracene	228	11.548	11.536	(0.998)	2929637	34.4551	11000
20 Chrysene	228	11.595	11.577	(1.003)	2656734	34.6987	11000
21 Benzo(b)fluoranthene	252	12.923	12.894	(0.959)	3320397	43.4769	14000
22 Benzo(k)fluoranthene	252	12.952	12.935	(0.961)	1362606	17.0377	5500
23 Benzo(a)pyrene	252	13.387	13.358	(0.993)	2218688	29.4433	9500
25 Indeno(1,2,3-cd)pyrene	276	15.138	15.103	(1.123)	1329934	16.9319	5400(M)
26 Dibenzo(a,h)anthracene	278	15.155	15.144	(1.125)	366661	5.10448	1600
27 Benzo(g,h,i)perylene	276	15.620	15.585	(1.159)	1236832	17.8681	5800

QC Flag Legend

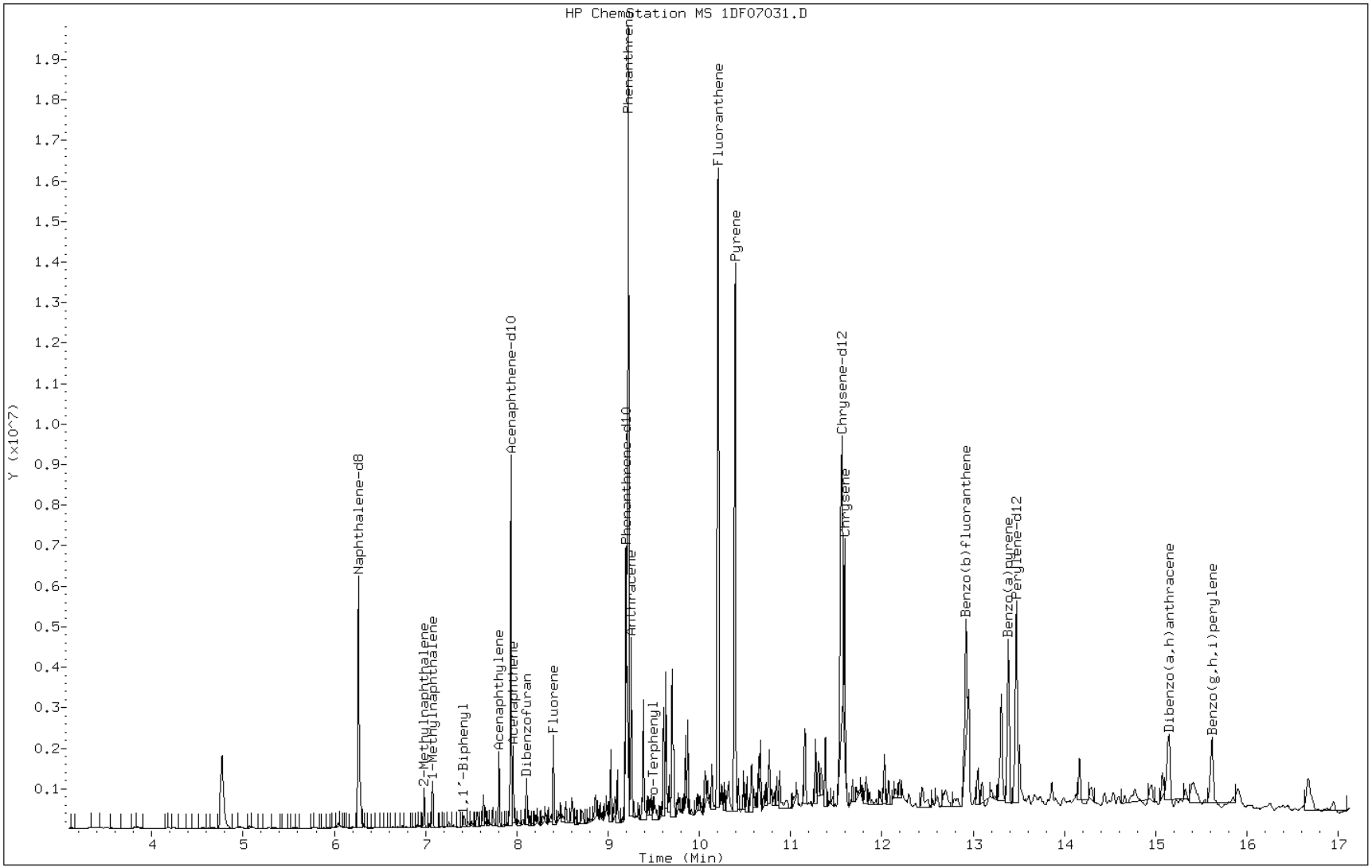
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC



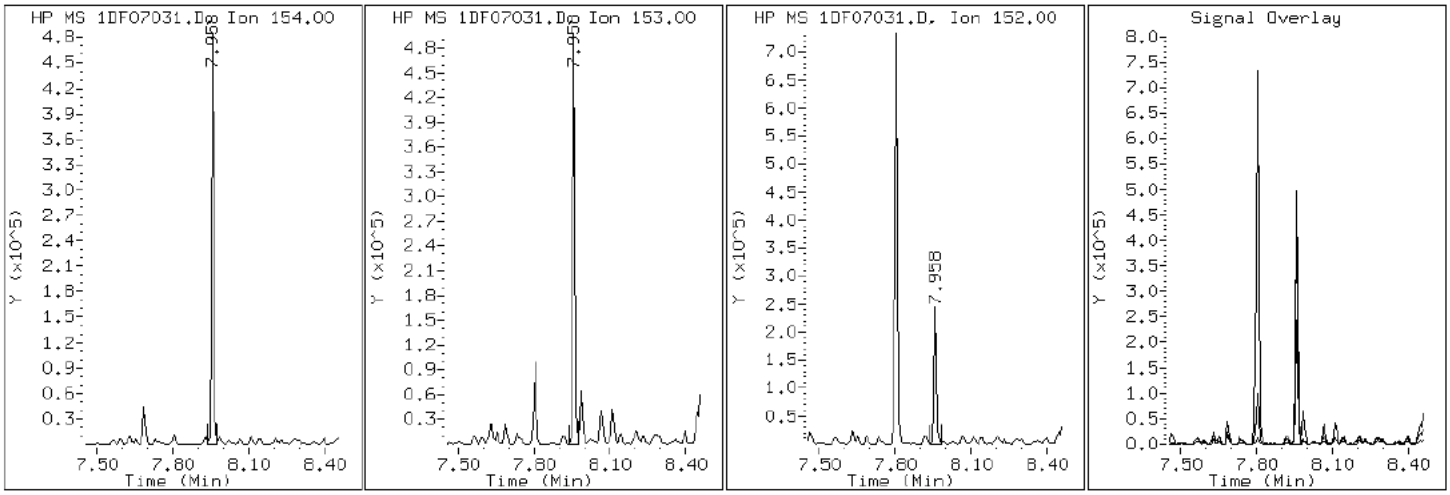
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

8 Acenaphthene



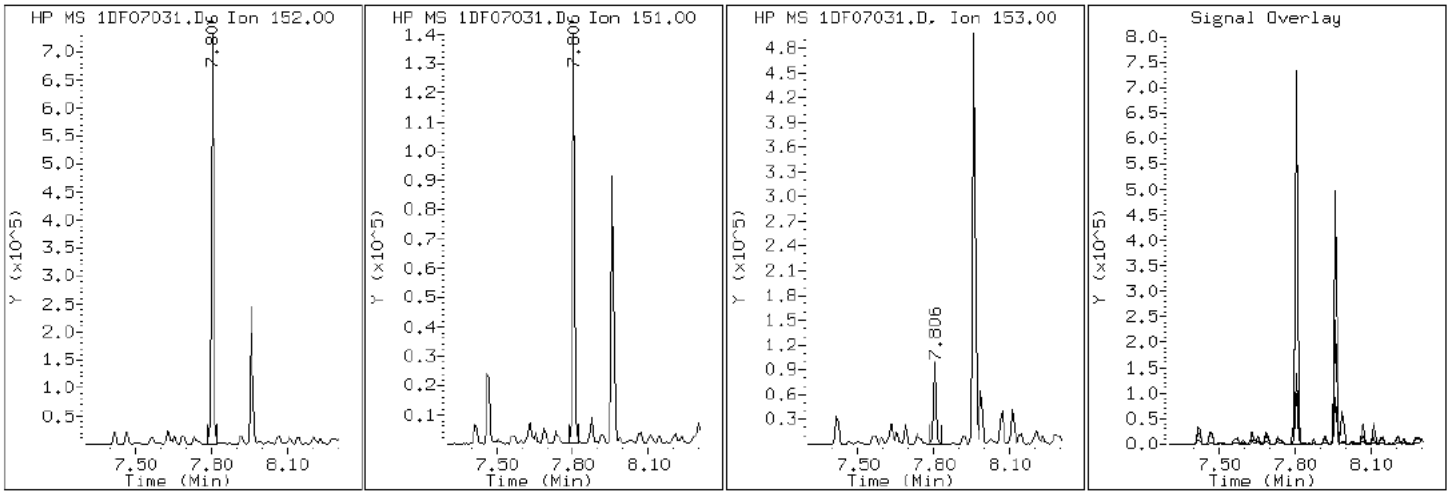
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

6 Acenaphthylene



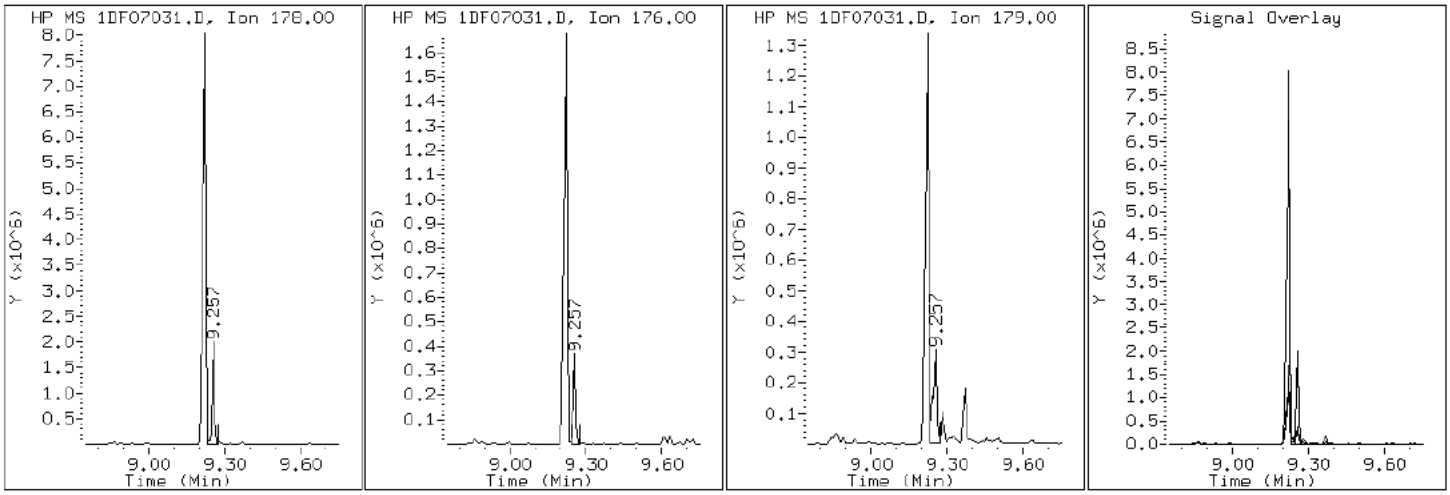
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

13 Anthracene



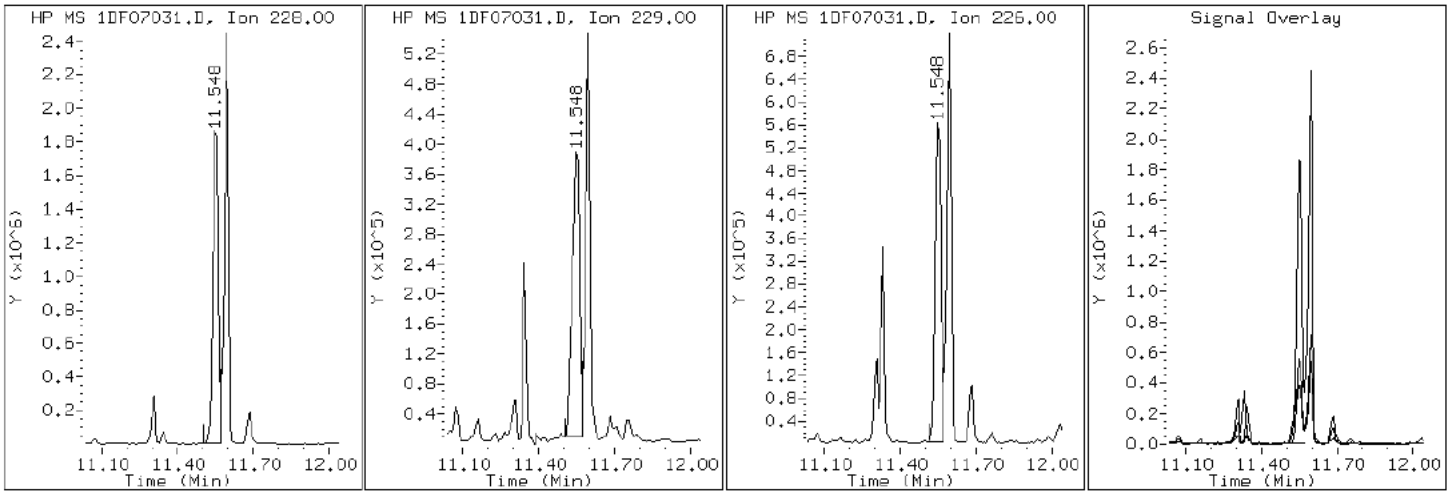
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

18 Benzo(a)anthracene



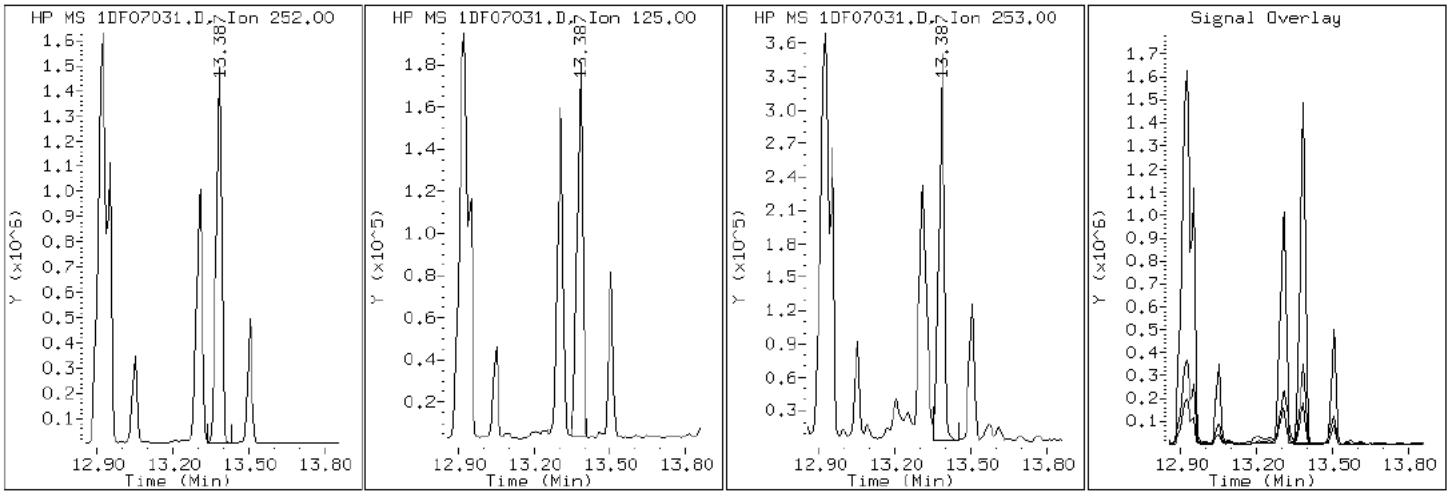
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

23 Benzo(a)pyrene



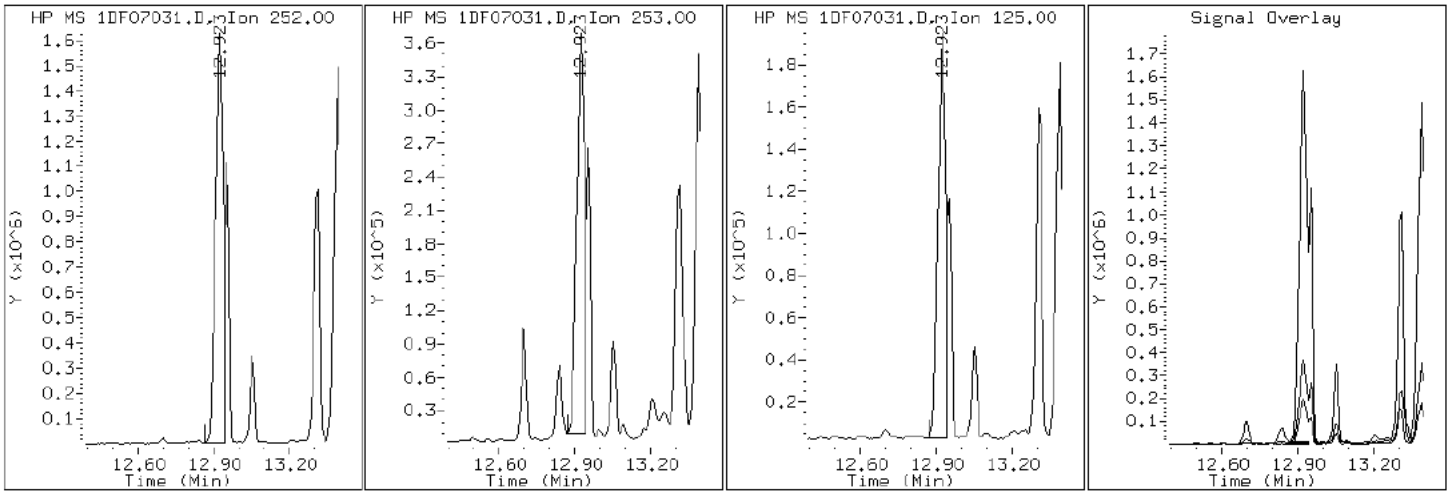
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

21 Benzo(b)fluoranthene



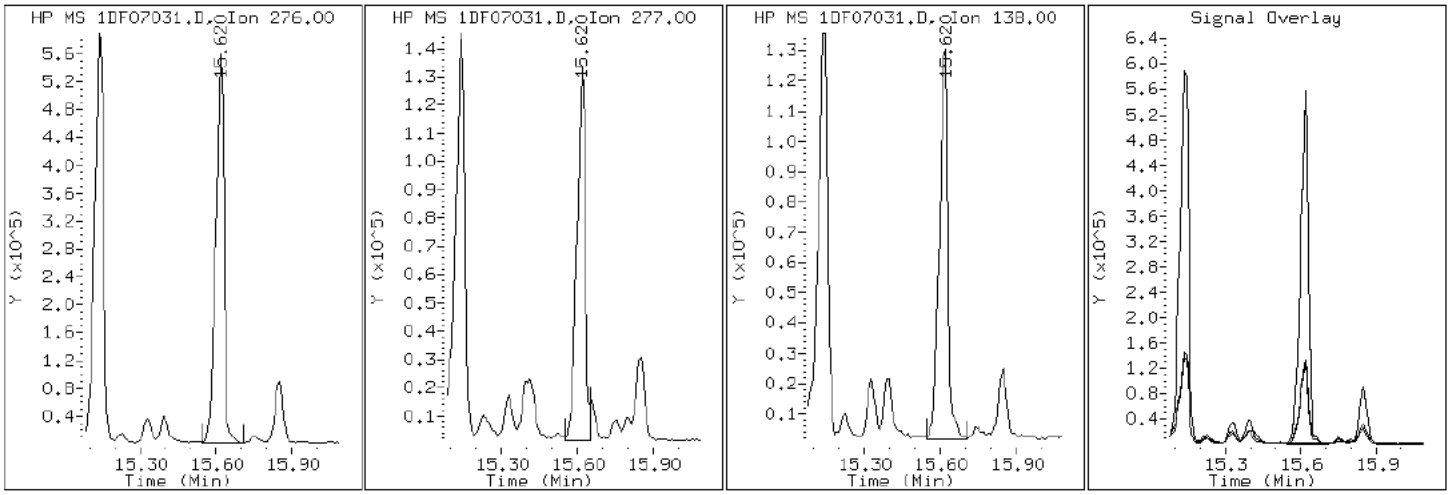
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

27 Benzo(g,h,i)perylene



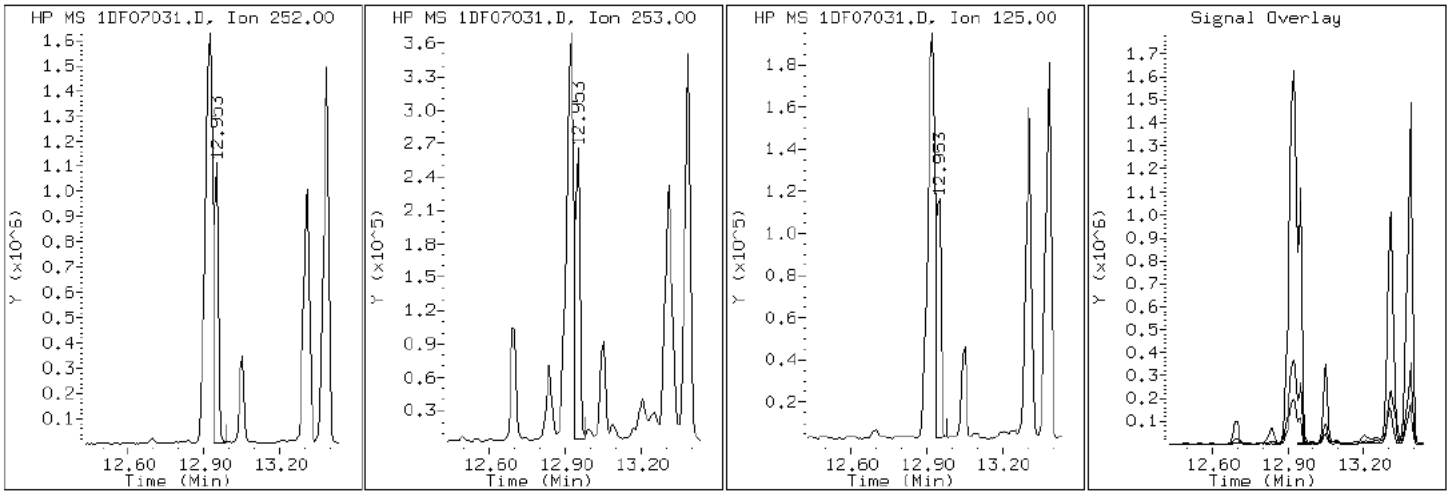
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

22 Benzo(k)fluoranthene



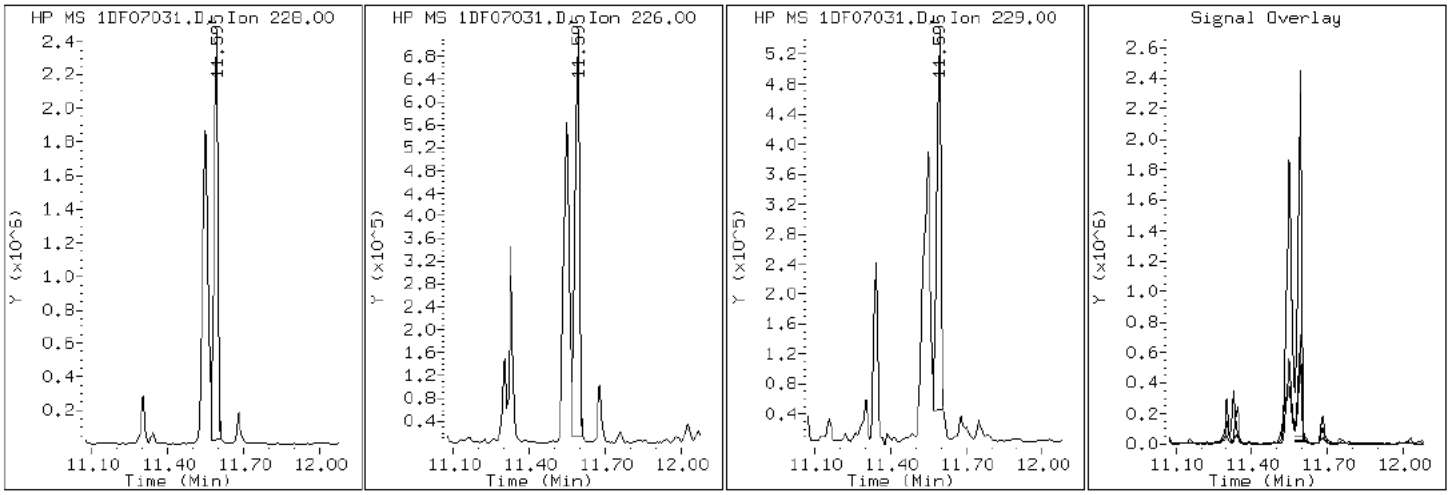
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

20 Chrysene



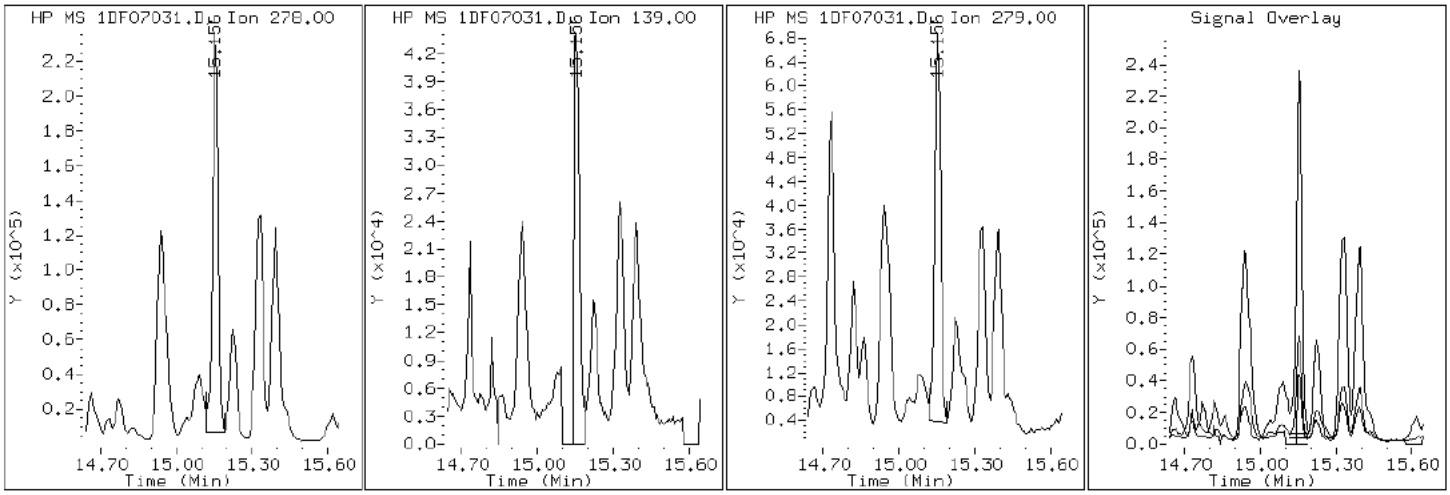
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

26 Dibenzo(a,h)anthracene



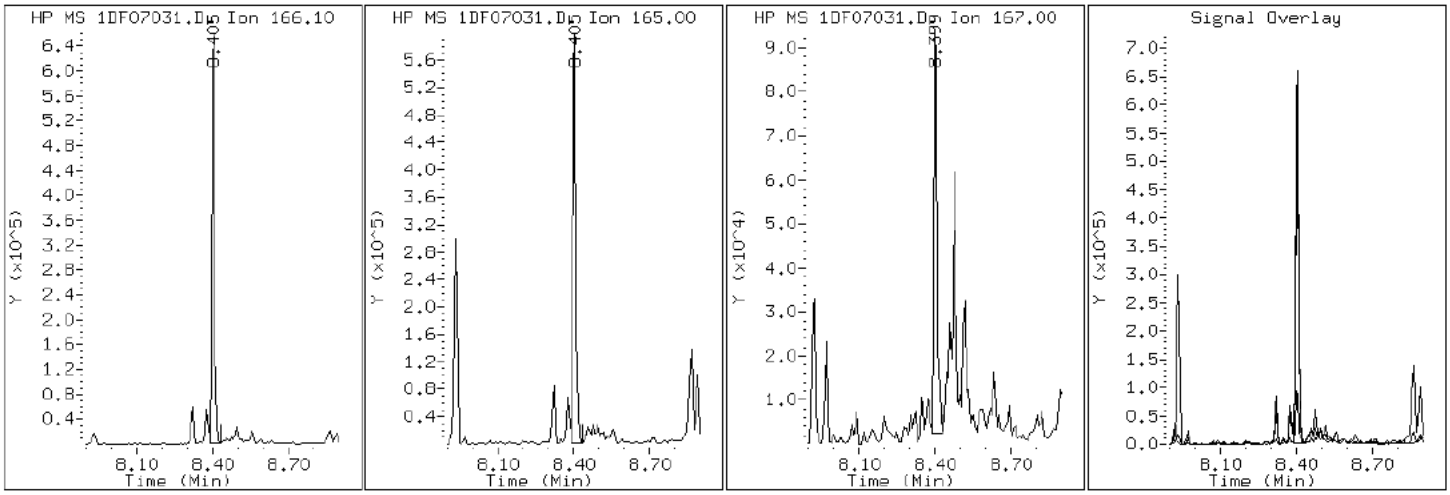
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

10 Fluorene



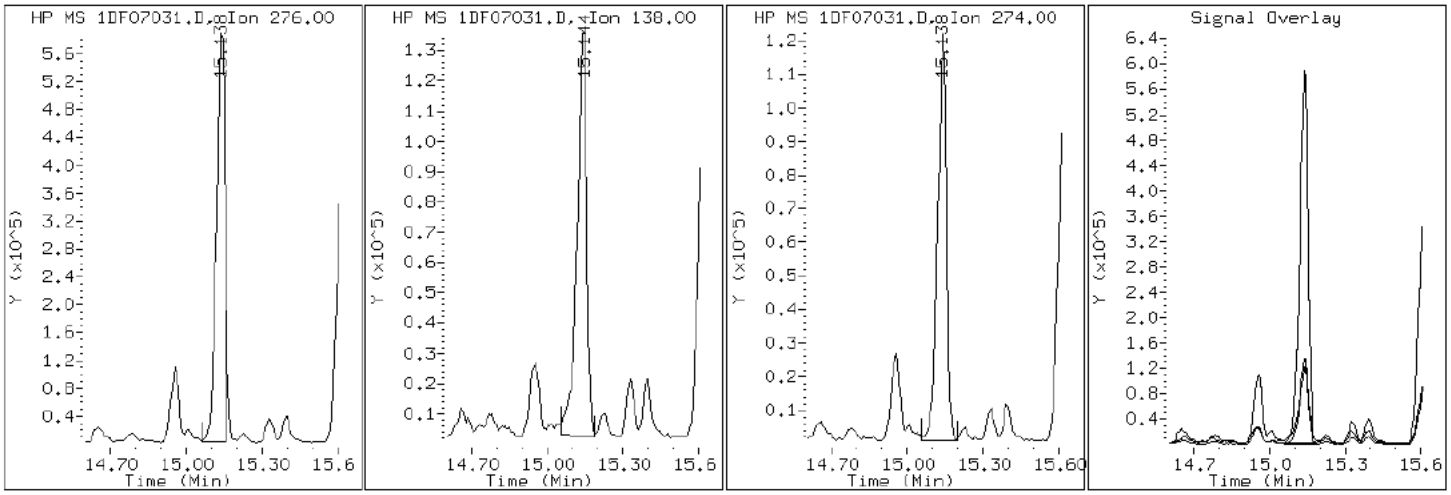
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

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



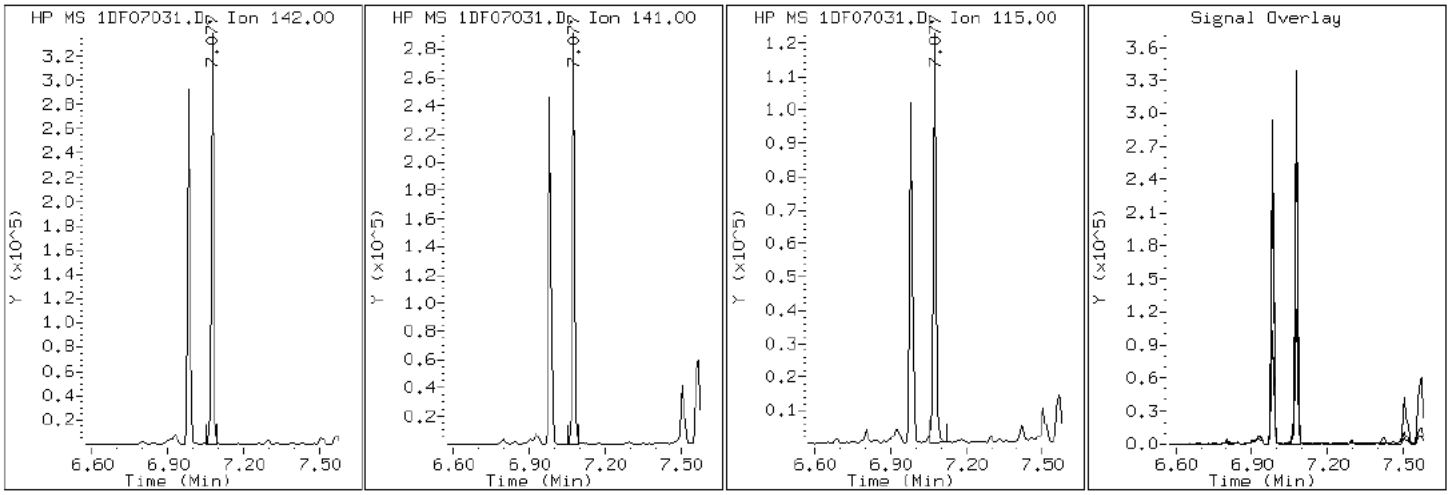
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

4 1-Methylnaphthalene



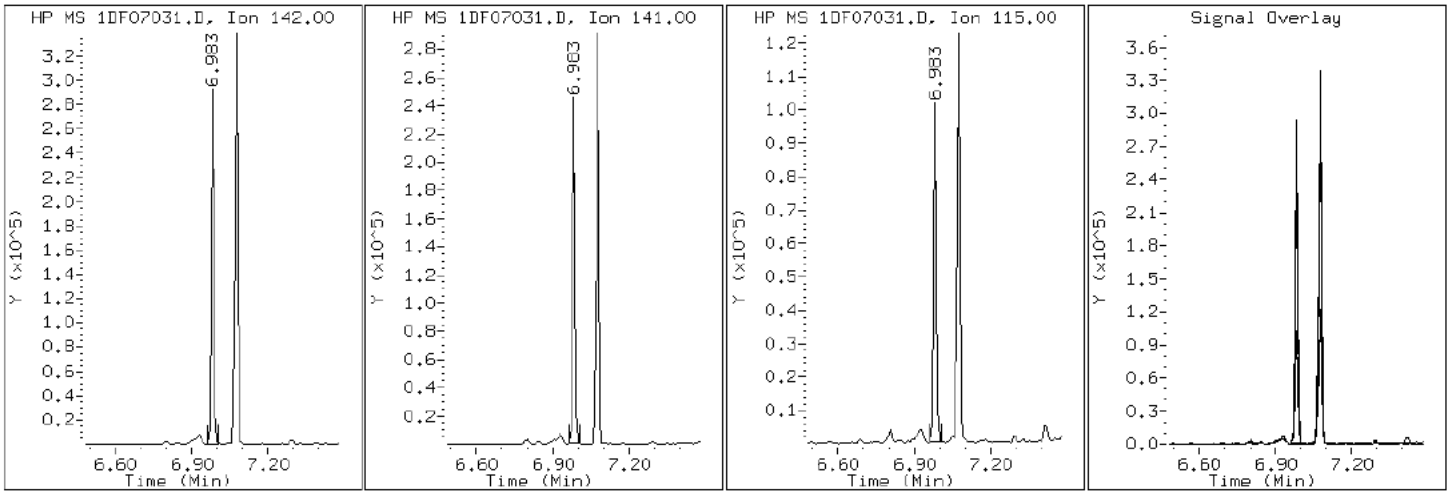
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

3 2-Methylnaphthalene



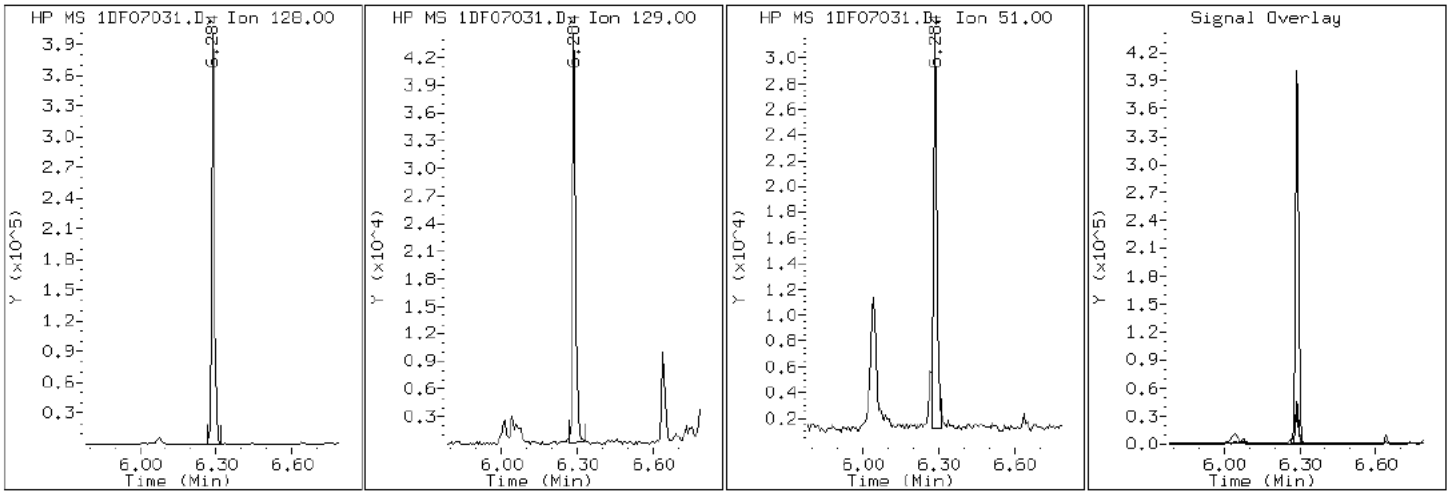
Data File: 1DF07031.D

Date: 07-JUN-2013 22:33

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-a-35-a Operator: SCC

2 Naphthalene



Manual Integration Report

Data File: 1DF07031.D
Inj. Date and Time: 07-JUN-2013 22:33
Instrument ID: BSMSD.i
Client ID: HP0125A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

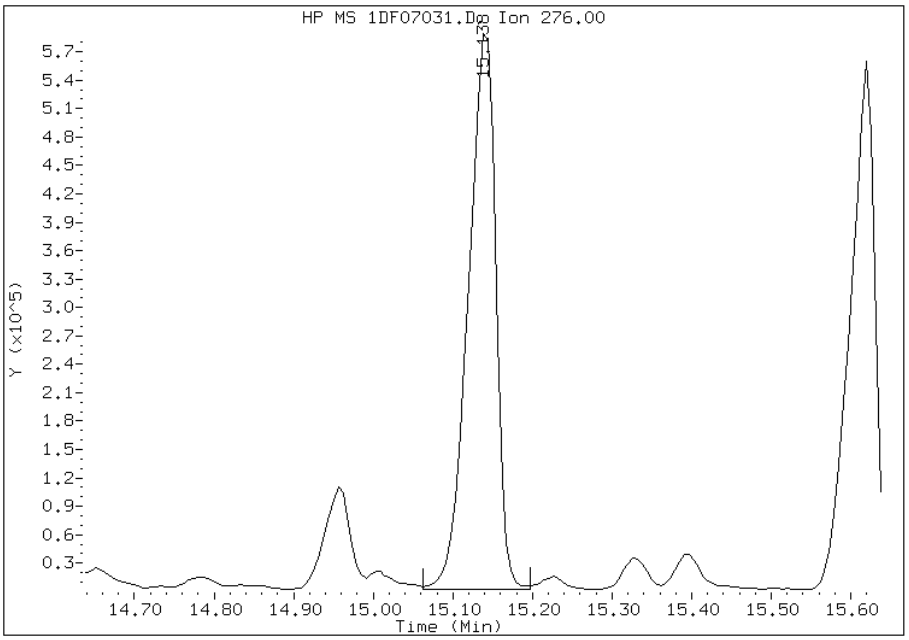
Processing Integration Results

RT: 15.14

Response: 1401111

Amount: 18

Conc: 5747



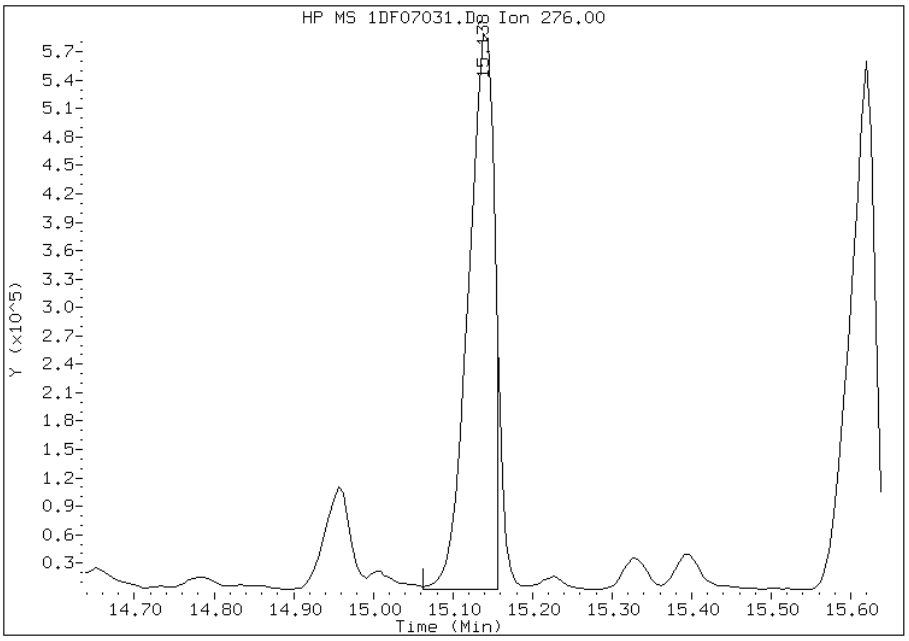
Manual Integration Results

RT: 15.14

Response: 1329934

Amount: 17

Conc: 5458



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0125A-CS-SP DL | Lab Sample ID: 680-90852-35 DL

Matrix: Solid | Lab File ID: 1DF09007.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:39

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

Sample wt/vol: 14.94(g) | Date Analyzed: 06/09/2013 11:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

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

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	24000		480	97
85-01-8	Phenanthrene	27000		190	94
129-00-0	Pyrene	19000		480	89

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09007.D
Lab Smp Id: 680-90852-A-35-A Client Smp ID: HP0125A-CS-SP
Inj Date : 09-JUN-2013 11:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-A-35-A
Misc Info : 680-90852-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 29
Dil Factor: 20.00000
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	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	16.939	% 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	6.263	(1.000)	3699042	40.0000	
*	7 Acenaphthene-d10	164	7.929	7.932	(1.000)	2100997	40.0000	
*	11 Phenanthrene-d10	188	9.186	9.189	(1.000)	3455034	40.0000	
*	19 Chrysene-d12	240	11.554	11.557	(1.000)	3536252	40.0000	
*	24 Perylene-d12	264	13.458	13.460	(1.000)	3313738	40.0000	
	2 Naphthalene	128	6.278	6.281	(1.003)	75496	0.82762	1300
	3 2-Methylnaphthalene	142	6.977	6.980	(1.114)	42406	0.73011	1200
	4 1-Methylnaphthalene	142	7.071	7.074	(1.129)	48387	0.80922	1300
	6 Acenaphthylene	152	7.800	7.802	(0.984)	92042	1.05661	1700
	8 Acenaphthene	154	7.952	7.961	(1.003)	64920	1.17480	1900
	10 Fluorene	166	8.399	8.402	(1.059)	104000	1.66334	2700
	12 Phenanthrene	178	9.210	9.207	(1.003)	1560281	16.6744	27000
	13 Anthracene	178	9.245	9.248	(1.006)	261427	2.87940	4600
	16 Fluoranthene	202	10.191	10.194	(1.109)	1441172	15.0547	24000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.379	10.382	(0.898)	1198942	11.5803	19000
18 Benzo(a)anthracene	228	11.536	11.539	(0.998)	550693	5.24728	8400
20 Chrysene	228	11.578	11.580	(1.002)	528563	5.59303	9000
21 Benzo(b)fluoranthene	252	12.888	12.896	(0.958)	582982	7.02248	11000
22 Benzo(k)fluoranthene	252	12.917	12.938	(0.960)	209194	2.40633	3900
23 Benzo(a)pyrene	252	13.352	13.361	(0.992)	360273	4.48210	7200
25 Indeno(1,2,3-cd)pyrene	276	15.085	15.111	(1.121)	242672	2.96543	4800
26 Dibenzo(a,h)anthracene	278	15.115	15.147	(1.123)	59904	0.82835	1300
27 Benzo(g,h,i)perylene	276	15.608	15.587	(1.160)	5213	0.06928	110(Q)

QC Flag Legend

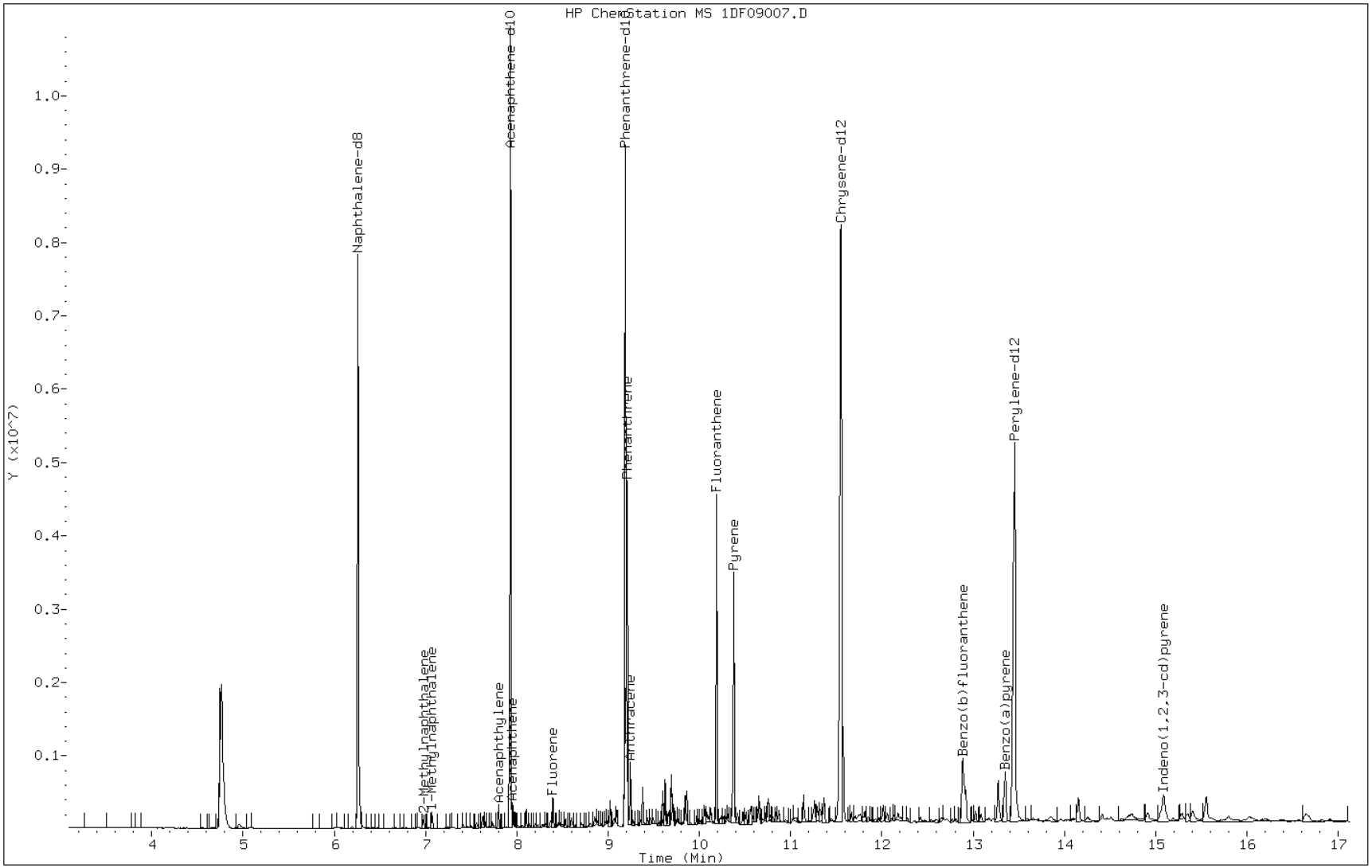
Q - Qualifier signal failed the ratio test.

Data File: 1DF09007.D

Date: 09-JUN-2013 11:34

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-A-35-A Operator: SCC



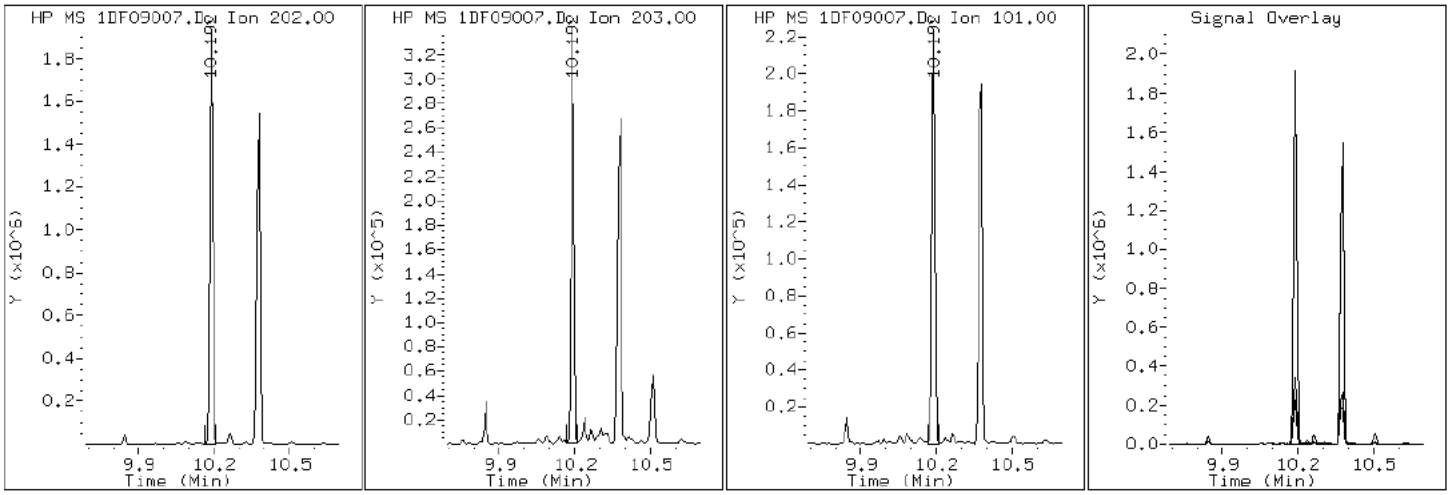
Data File: 1DF09007.D

Date: 09-JUN-2013 11:34

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-A-35-A Operator: SCC

16 Fluoranthene



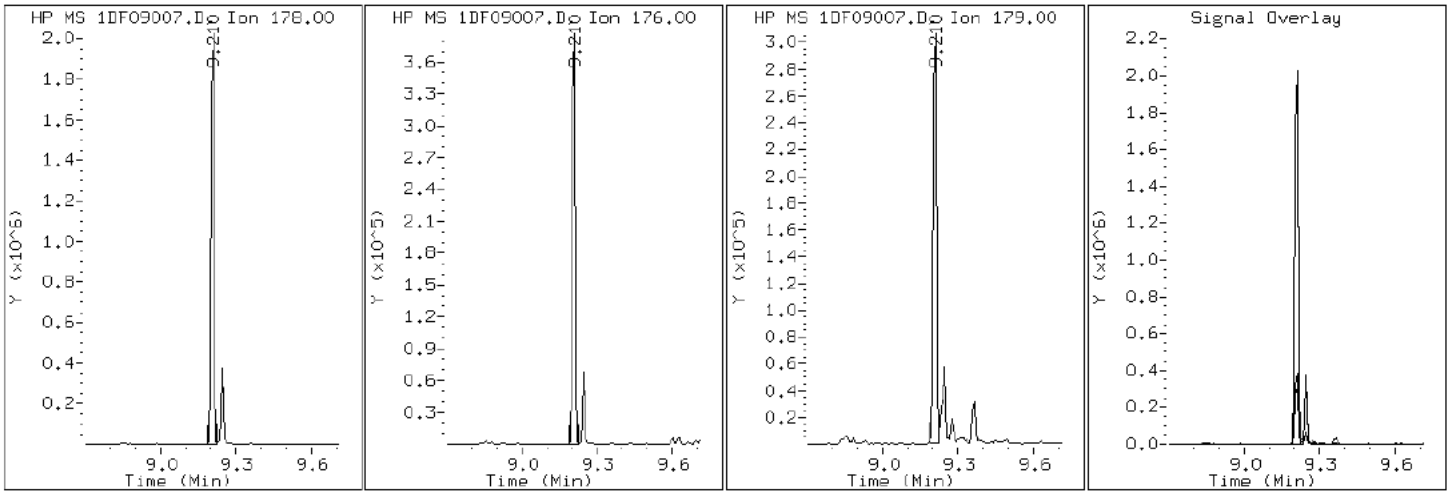
Data File: 1DF09007.D

Date: 09-JUN-2013 11:34

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-A-35-A Operator: SCC

12 Phenanthrene



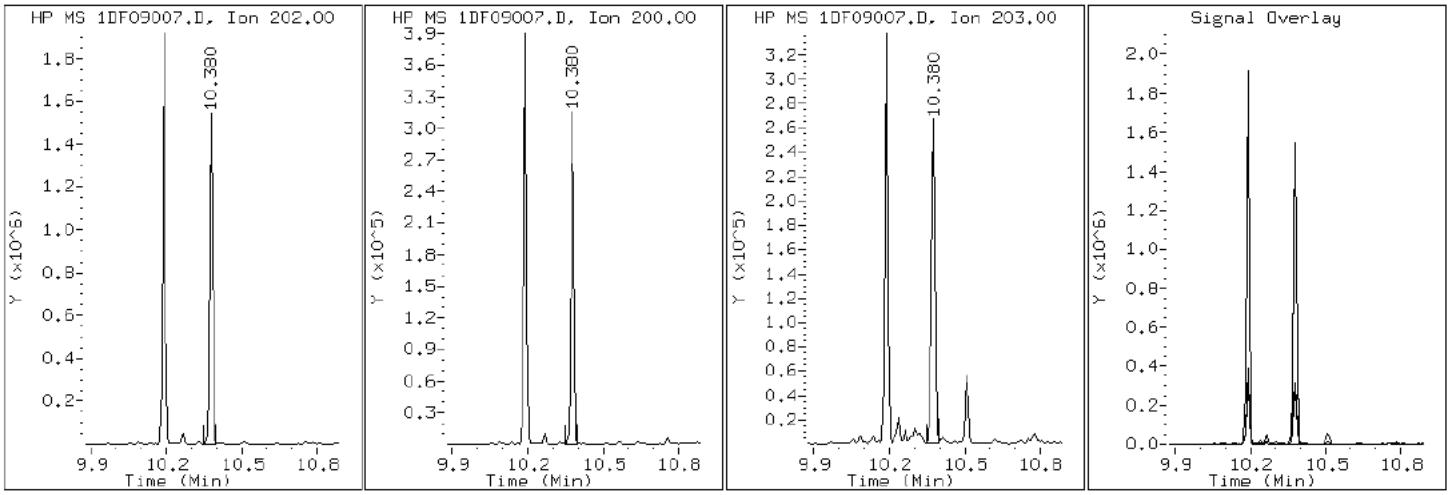
Data File: 1DF09007.D

Date: 09-JUN-2013 11:34

Client ID: HP0125A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90852-A-35-A Operator: SCC

17 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0125B-CS-SP | Lab Sample ID: 680-90852-36

Matrix: Solid | Lab File ID: 1CF07032.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 13:54

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

Sample wt/vol: 15.09(g) | Date Analyzed: 06/07/2013 20:29

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

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

% Moisture: 18.4 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	8.8	J	49	6.1
120-12-7	Anthracene	23		10	5.1
56-55-3	Benzo[a]anthracene	99		9.7	4.7
50-32-8	Benzo[a]pyrene	100		13	6.3
205-99-2	Benzo[b]fluoranthene	210		15	7.4
191-24-2	Benzo[g,h,i]perylene	93		24	5.4
207-08-9	Benzo[k]fluoranthene	50		9.7	4.4
218-01-9	Chrysene	130		11	5.5
53-70-3	Dibenz(a,h)anthracene	28		24	5.0
206-44-0	Fluoranthene	210		24	4.9
86-73-7	Fluorene	11	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	72		24	8.6
90-12-0	1-Methylnaphthalene	33	J	49	5.4
91-57-6	2-Methylnaphthalene	33	J	49	8.6
91-20-3	Naphthalene	49		49	5.4
85-01-8	Phenanthrene	130		9.7	4.7
129-00-0	Pyrene	160		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07032.D
Lab Smp Id: 680-90852-A-36-A Client Smp ID: HP0125B-CS-SP
Inj Date : 07-JUN-2013 20:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-36-a
Misc Info : 680-90852-A-36-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: 32
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	15.090	Weight Extracted
M	18.363	% 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)	2043812	40.0000	
*	6 Acenaphthene-d10	164	5.116	5.116	(1.000)	1507036	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2854927	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	344723	7.75138	629.2187
*	18 Chrysene-d12	240	8.045	8.051	(1.000)	3314396	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	3012482	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	34628	0.60039	48.7364
	3 2-Methylnaphthalene	142	4.469	4.468	(1.108)	12860	0.40199	32.6312
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	12672	0.40260	32.6813
	5 Acenaphthylene	152	5.033	5.033	(0.984)	6278	0.10867	8.8209
	9 Fluorene	166	5.463	5.463	(1.068)	6125	0.13250	10.7554
	11 Phenanthrene	178	6.104	6.104	(1.003)	135824	1.61031	130.7169
	12 Anthracene	178	6.139	6.139	(1.009)	22389	0.28652	23.2580
	13 Carbazole	167	6.239	6.239	(1.025)	15182	0.32286	26.2080

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.951	6.951	(1.142)	217822	2.52653	205.0917
16 Pyrene	202	7.121	7.121	(0.885)	173815	1.94209	157.6492
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	111117	1.21582	98.6941
19 Chrysene	228	8.062	8.068	(1.002)	142094	1.54423	125.3530
20 Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	187549	2.53393	205.6917
21 Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	51163	0.61890	50.2396(Q)
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	89621	1.28475	104.2897
24 Indeno(1,2,3-cd)pyrene	276	10.739	10.745	(1.146)	59048	0.89131	72.3521(M)
25 Dibenzo(a,h)anthracene	278	10.750	10.762	(1.147)	22345	0.34752	28.2099(M)
26 Benzo(g,h,i)perylene	276	11.156	11.162	(1.190)	80204	1.14602	93.0285

QC Flag Legend

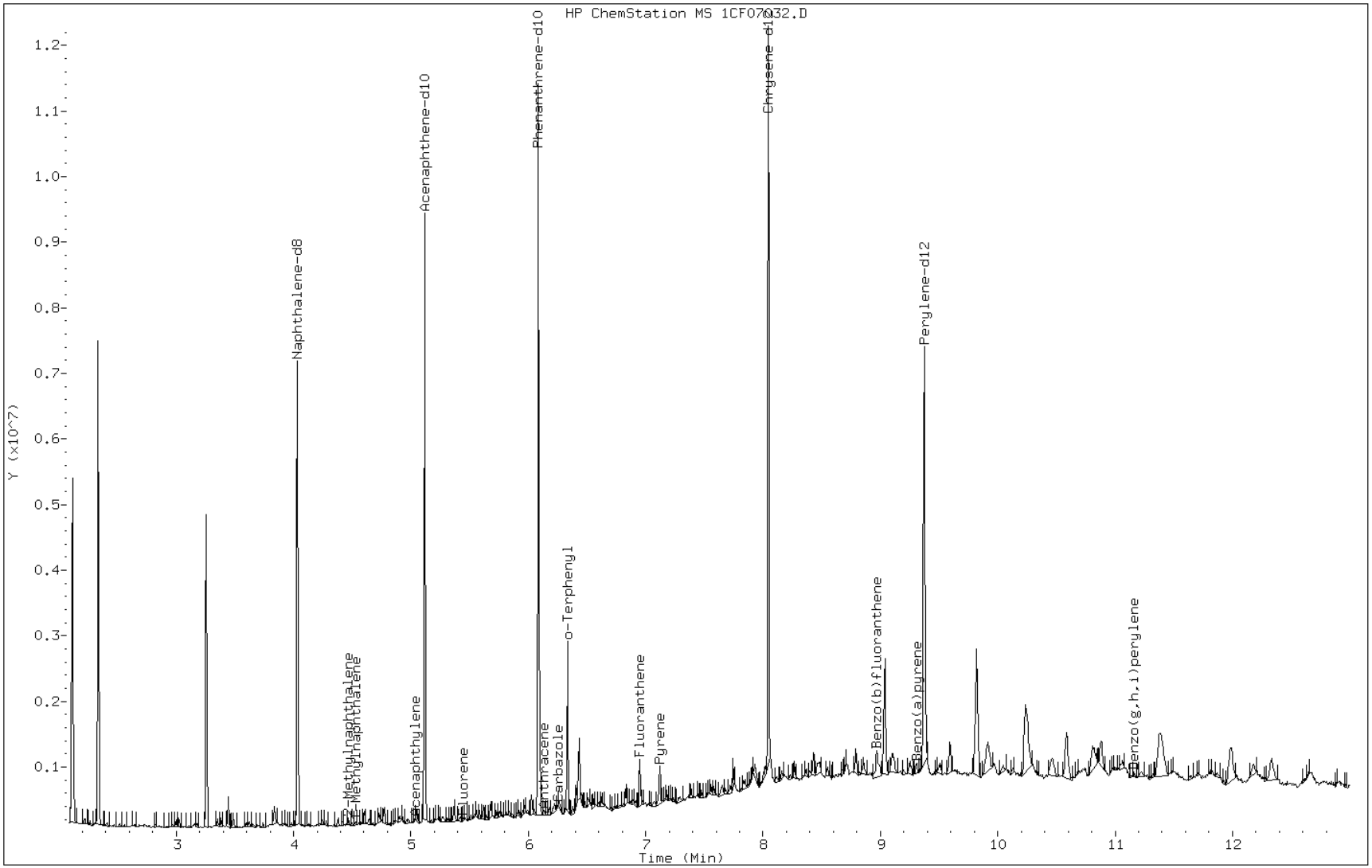
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC



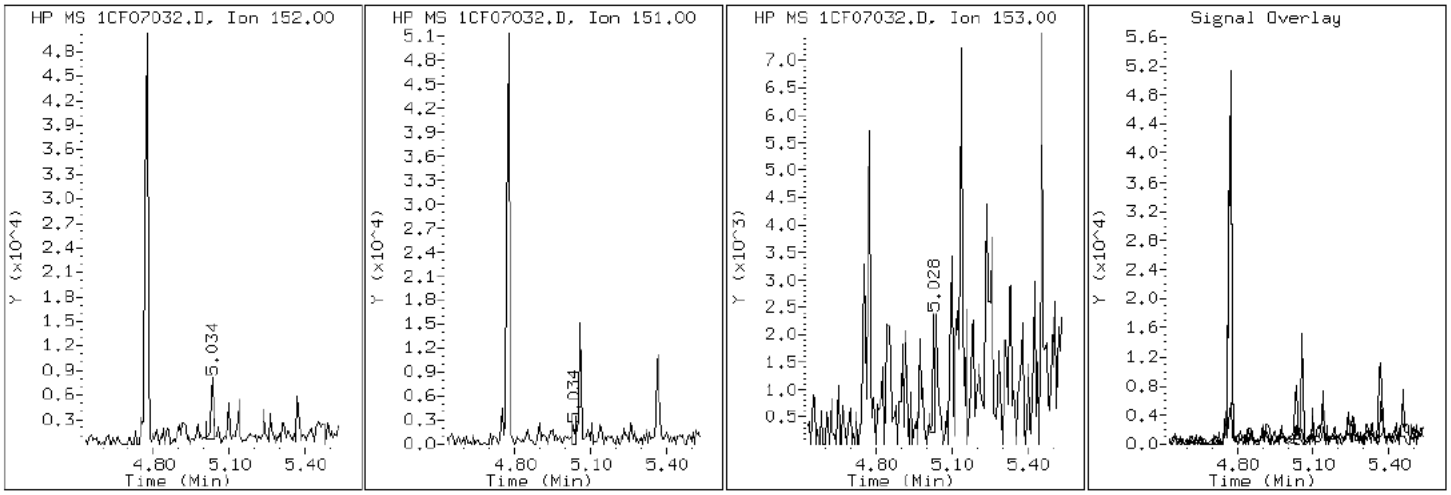
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

5 Acenaphthylene



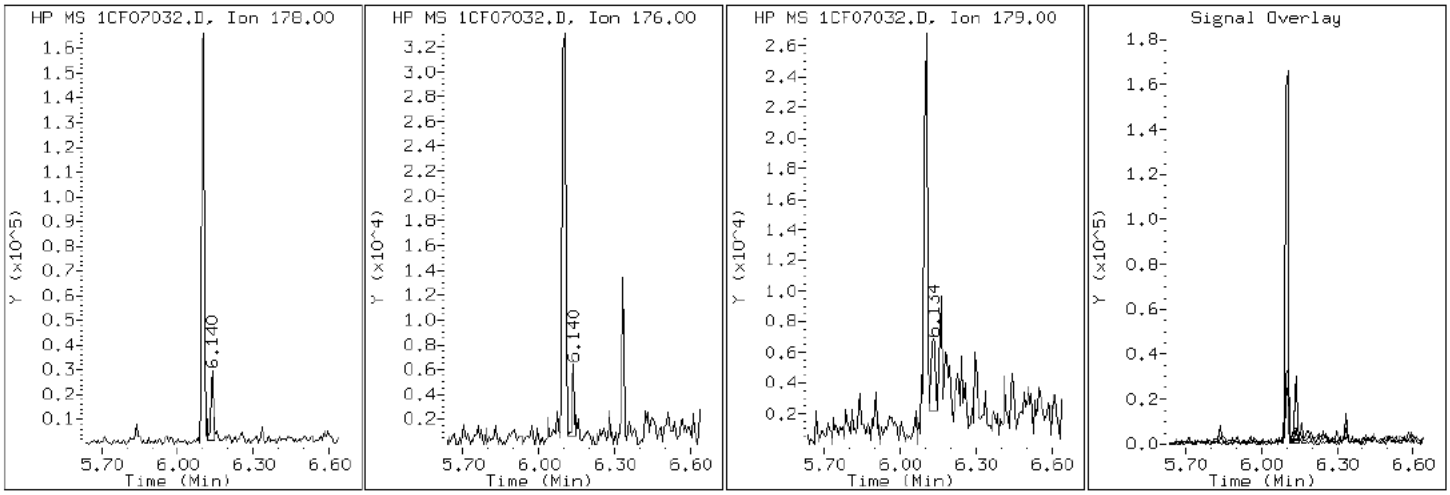
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

12 Anthracene



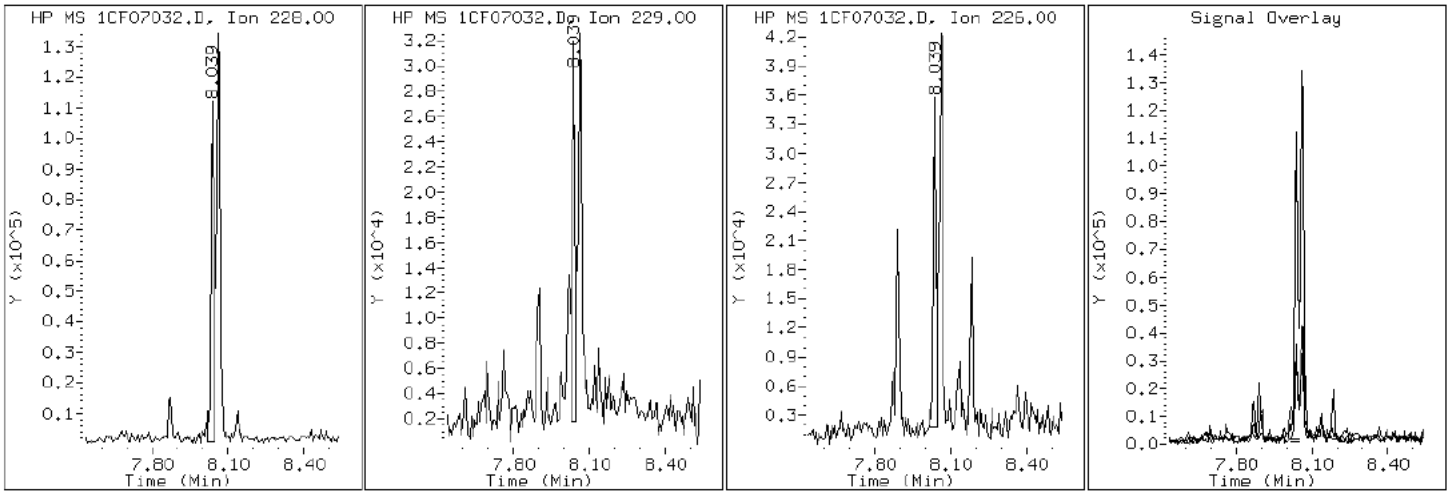
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

17 Benzo(a)anthracene



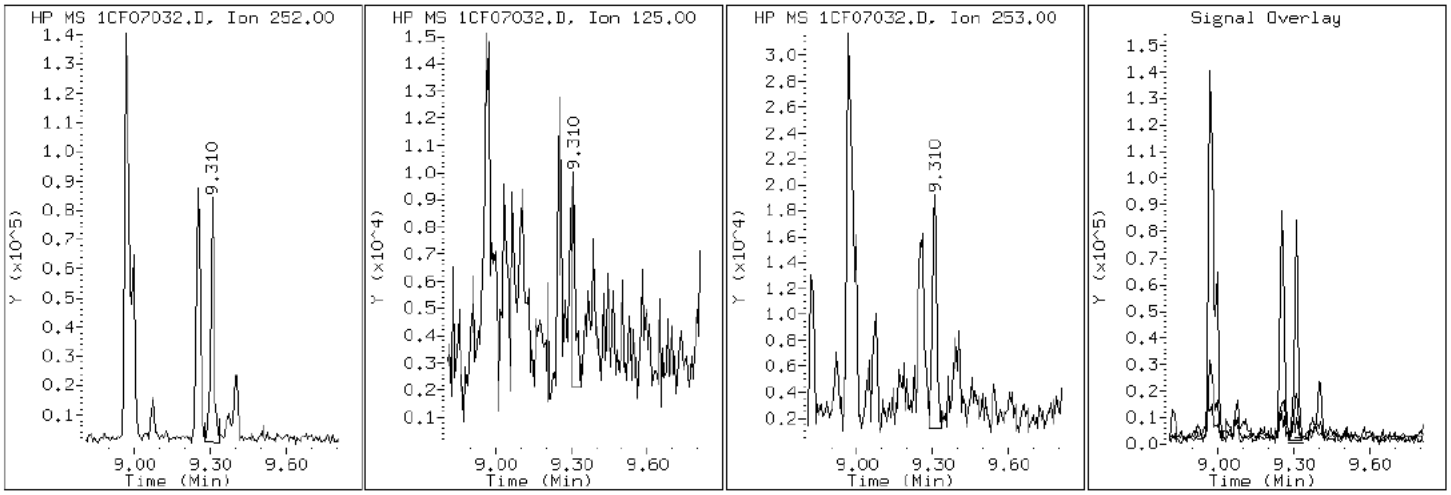
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

22 Benzo(a)pyrene



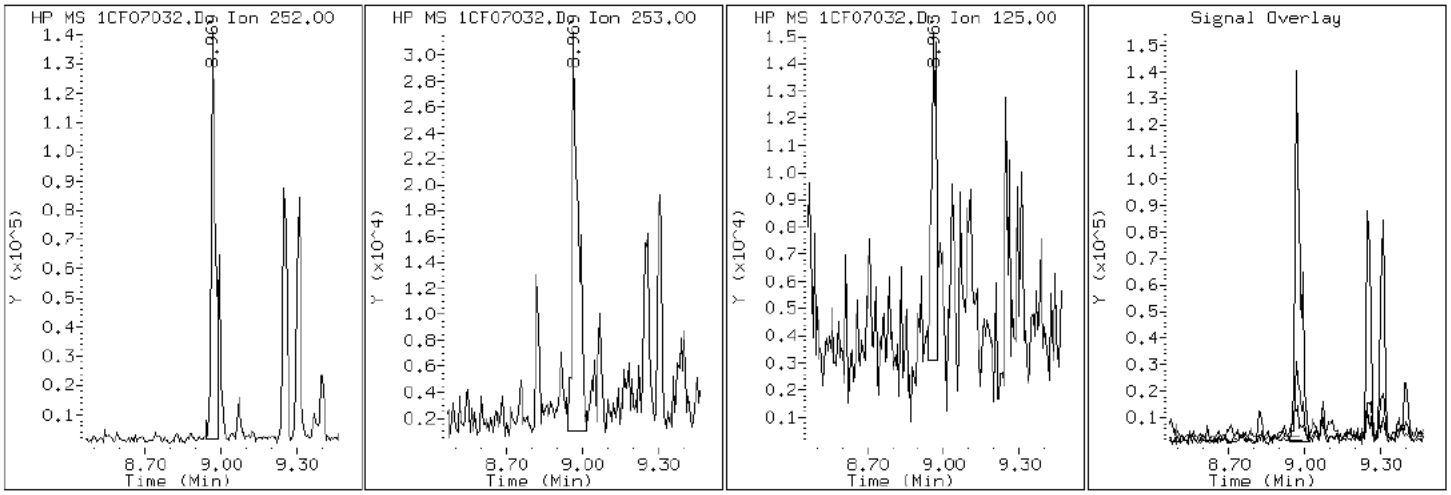
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

20 Benzo(b)fluoranthene



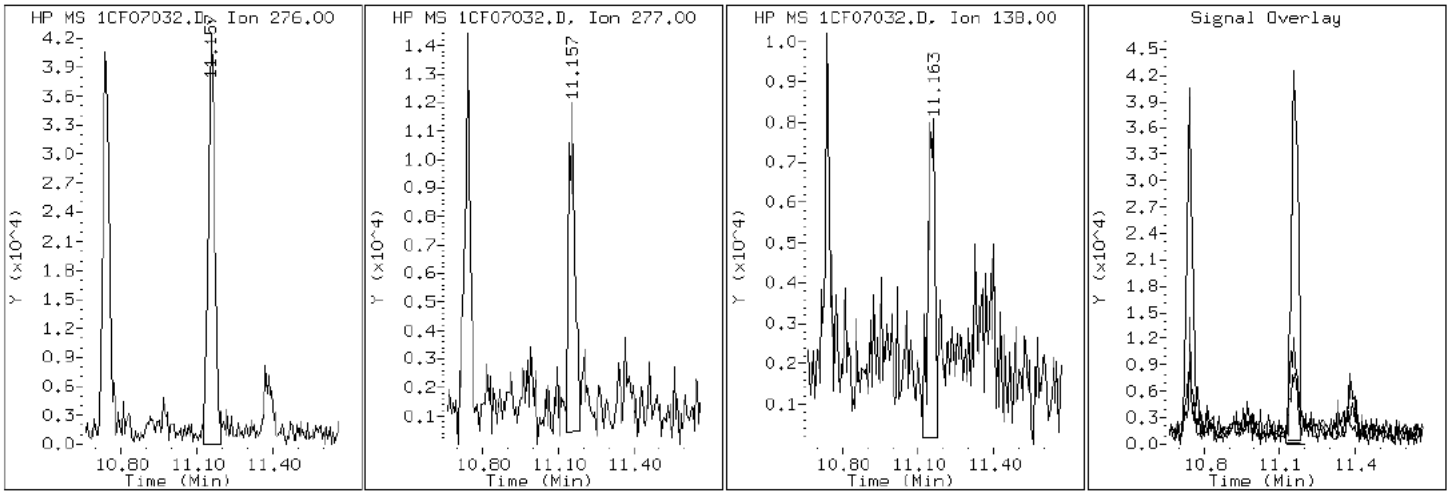
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



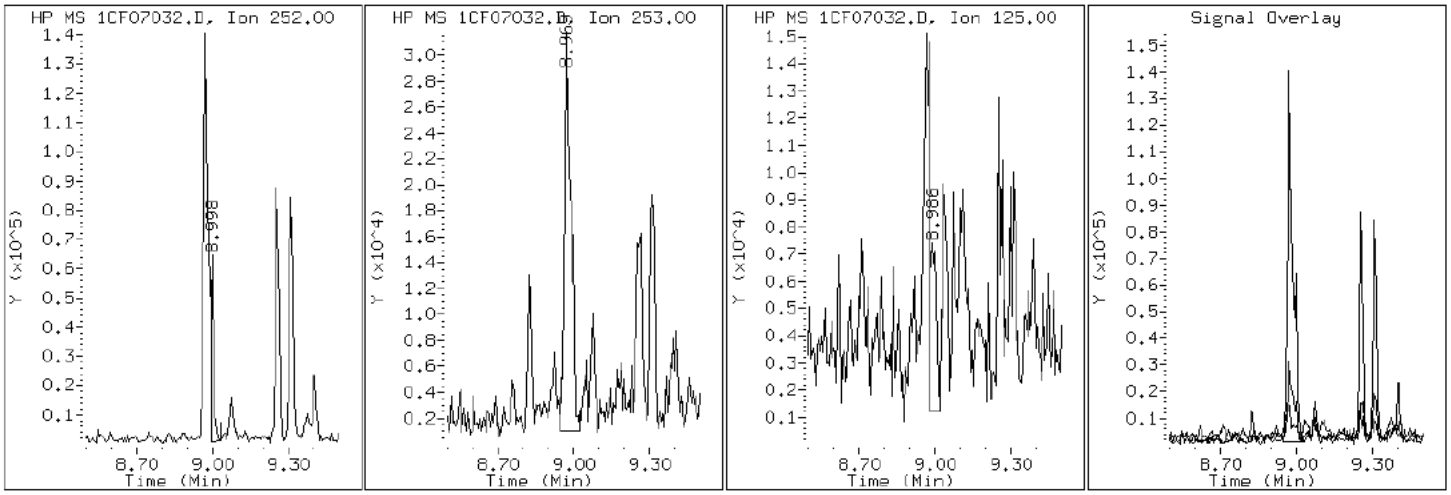
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

21 Benzo(k)fluoranthene



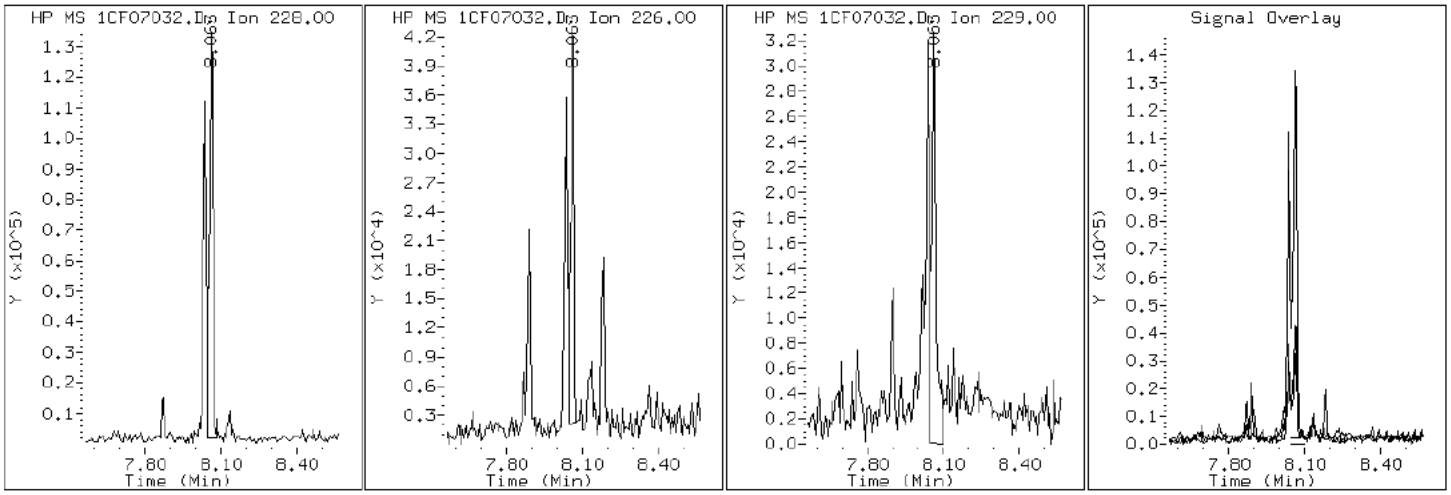
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

19 Chrysene



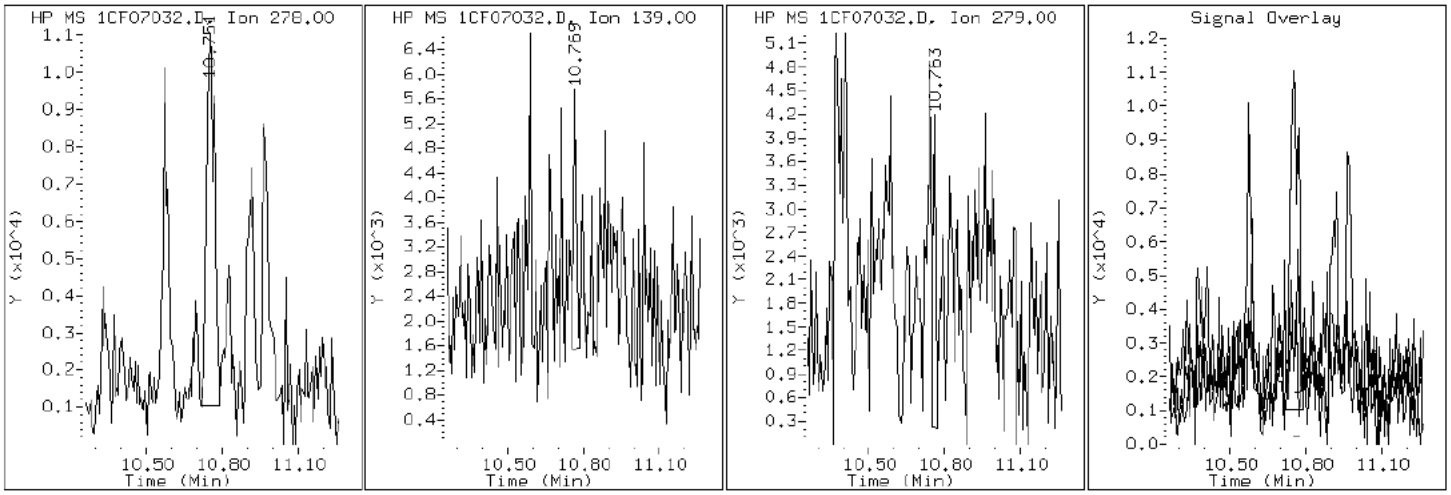
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

25 Dibenzo(a,h)anthracene



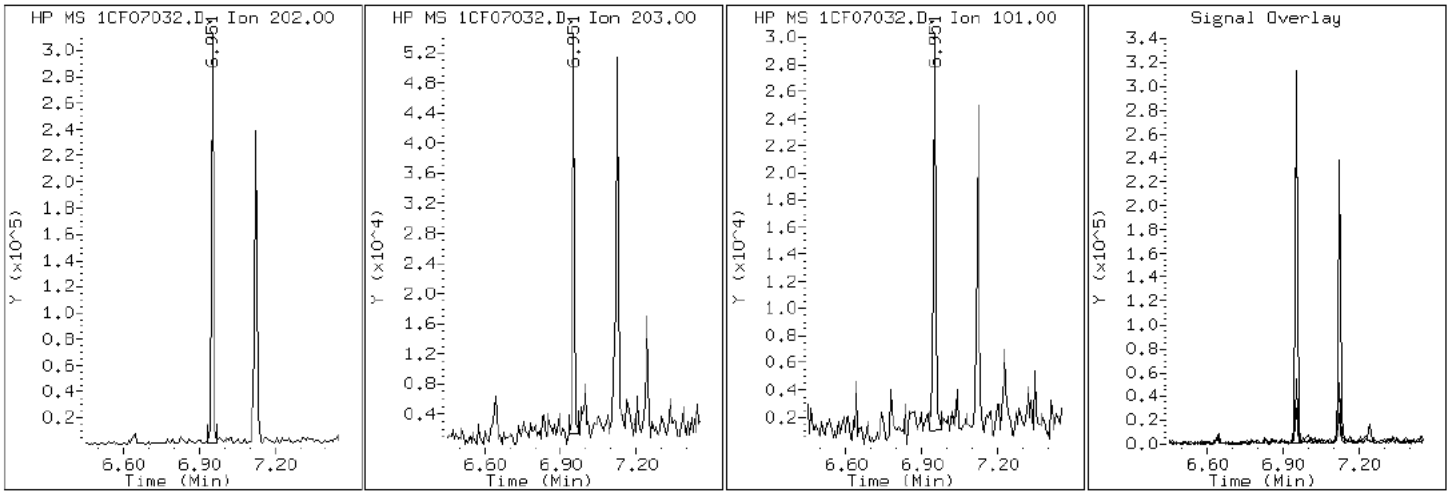
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

15 Fluoranthene



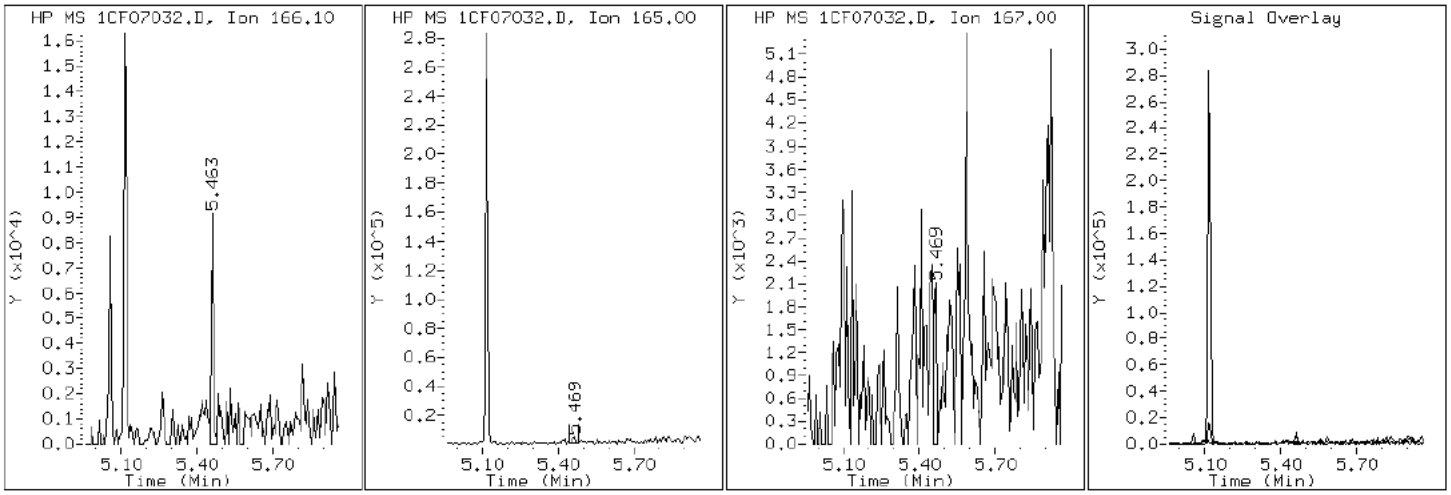
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

9 Fluorene



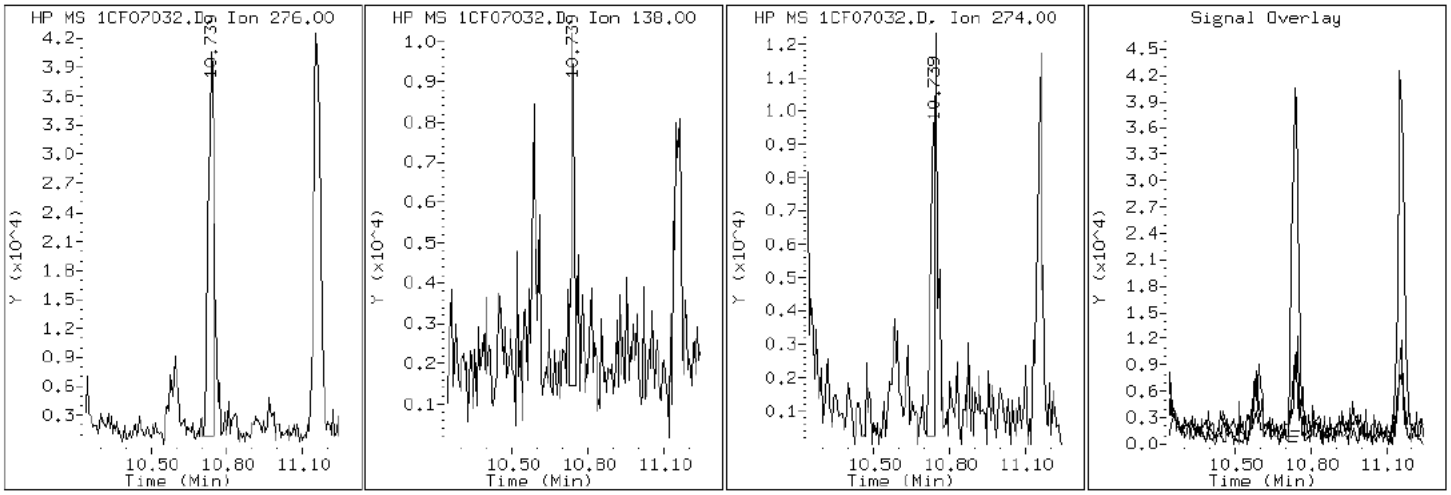
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

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



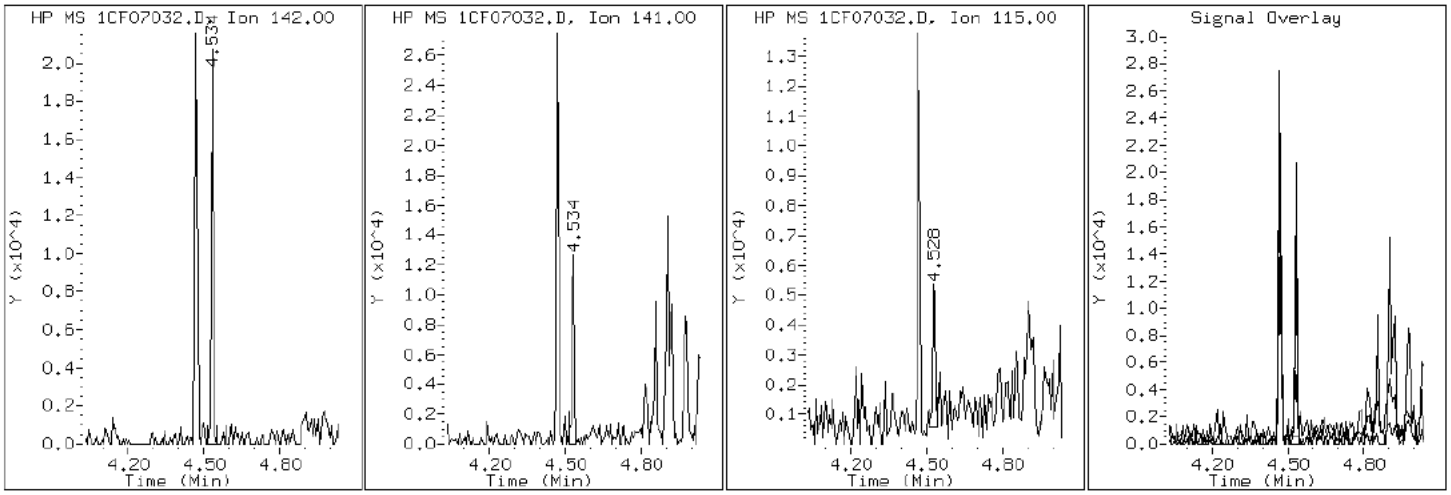
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

4 1-Methylnaphthalene



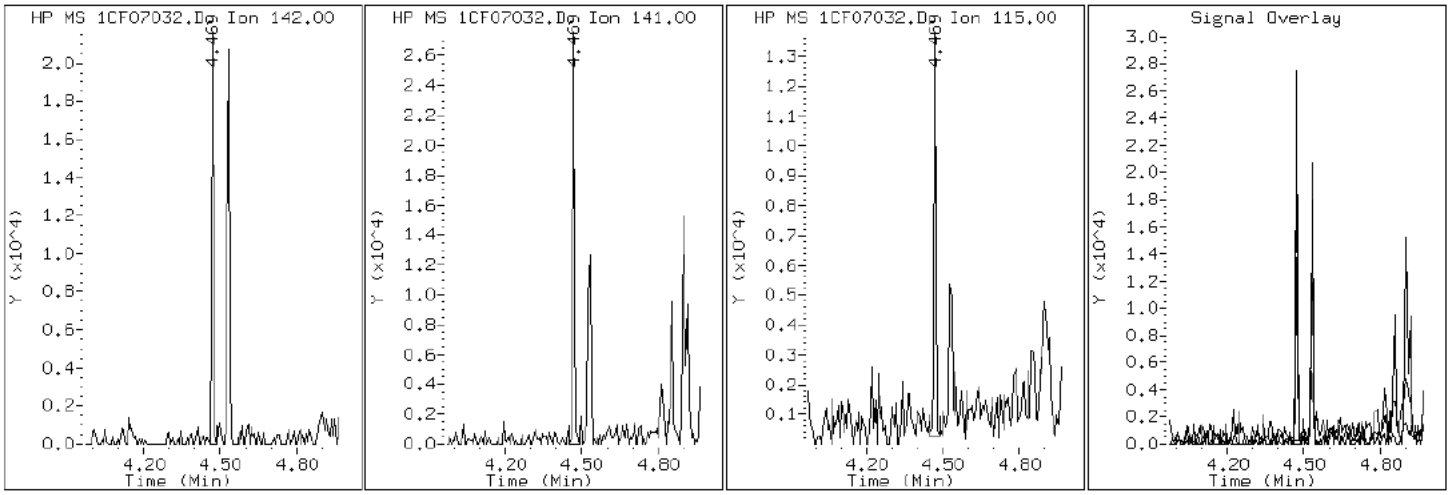
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

3 2-Methylnaphthalene



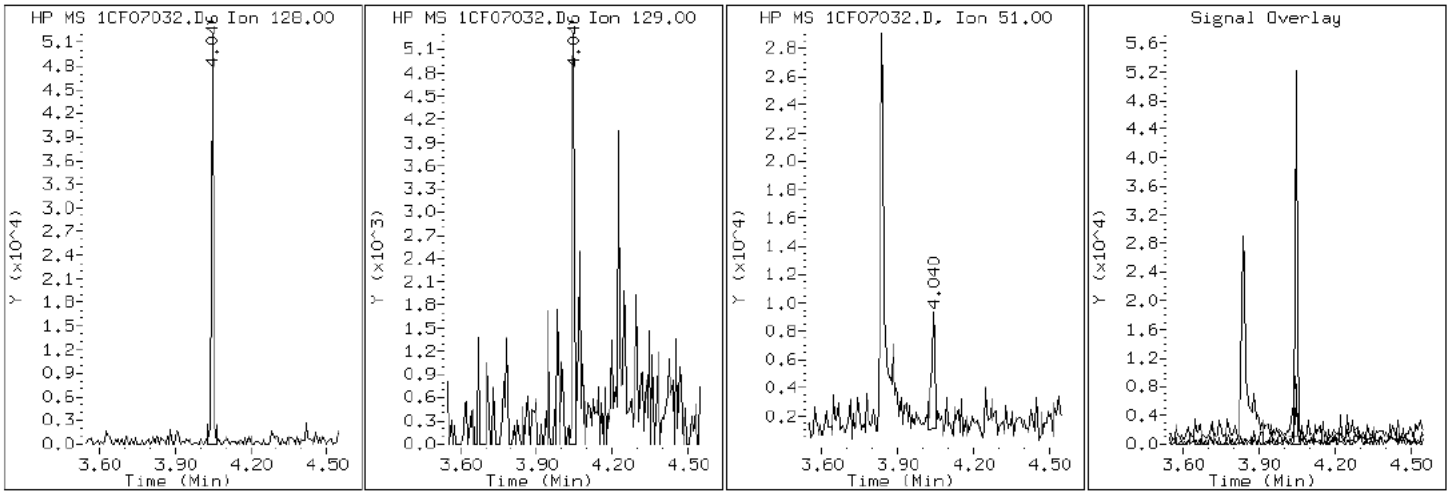
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

2 Naphthalene



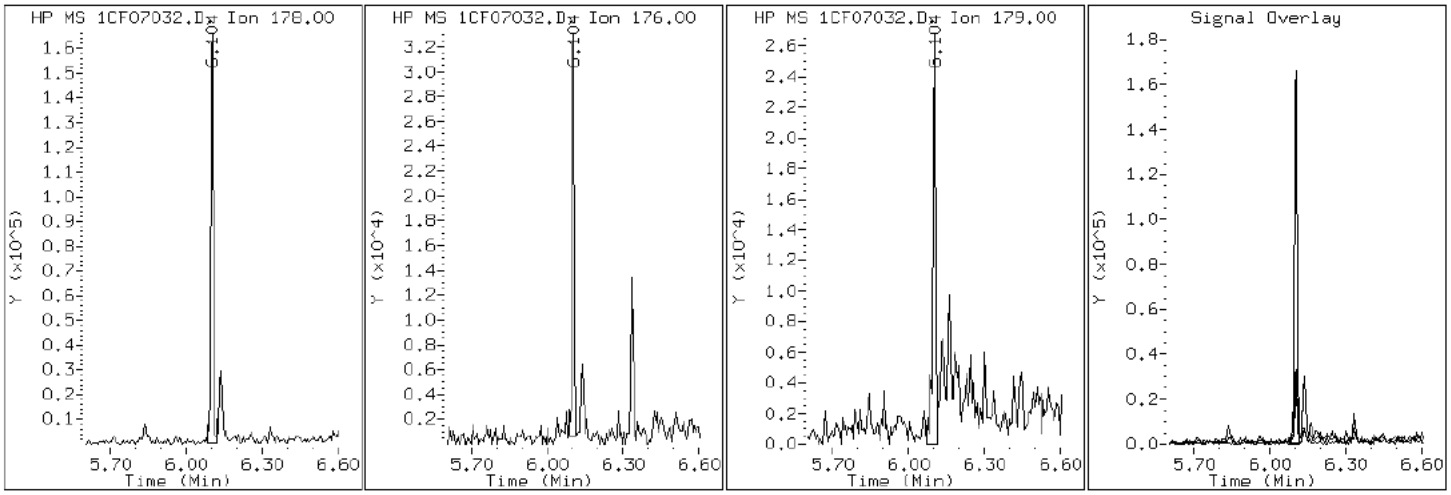
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

11 Phenanthrene



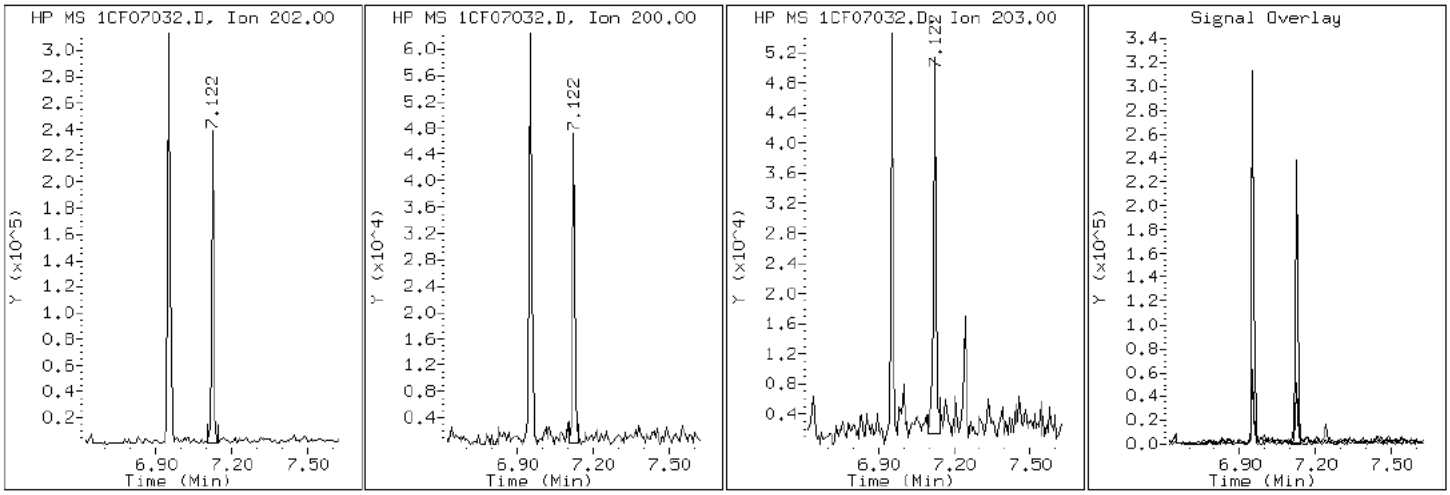
Data File: 1CF07032.D

Date: 07-JUN-2013 20:29

Client ID: HP0125B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-36-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07032.D
Inj. Date and Time: 07-JUN-2013 20:29
Instrument ID: BSMC5973.i
Client ID: HP0125B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/09/2013

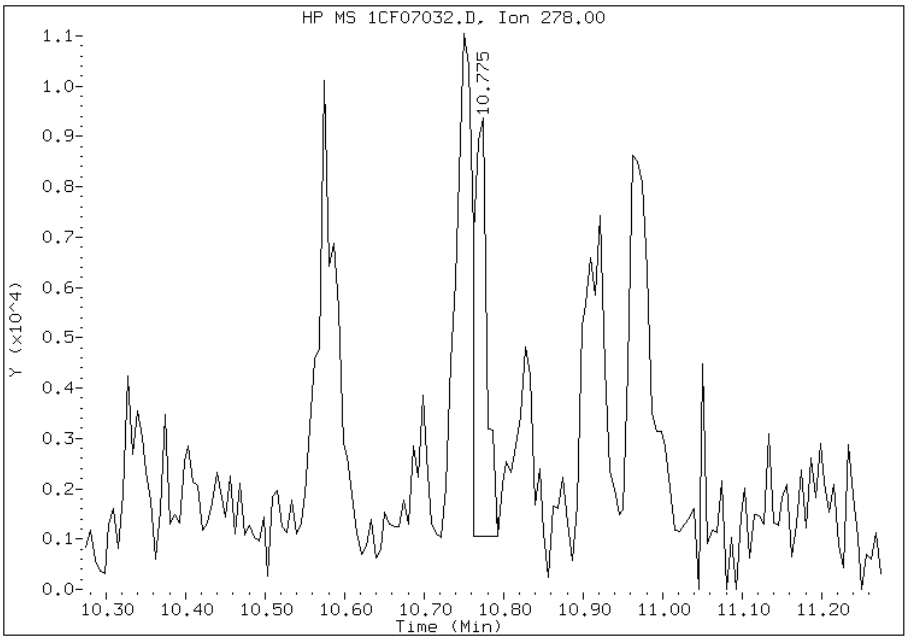
Processing Integration Results

RT: 10.77

Response: 9344

Amount: 0

Conc: 12



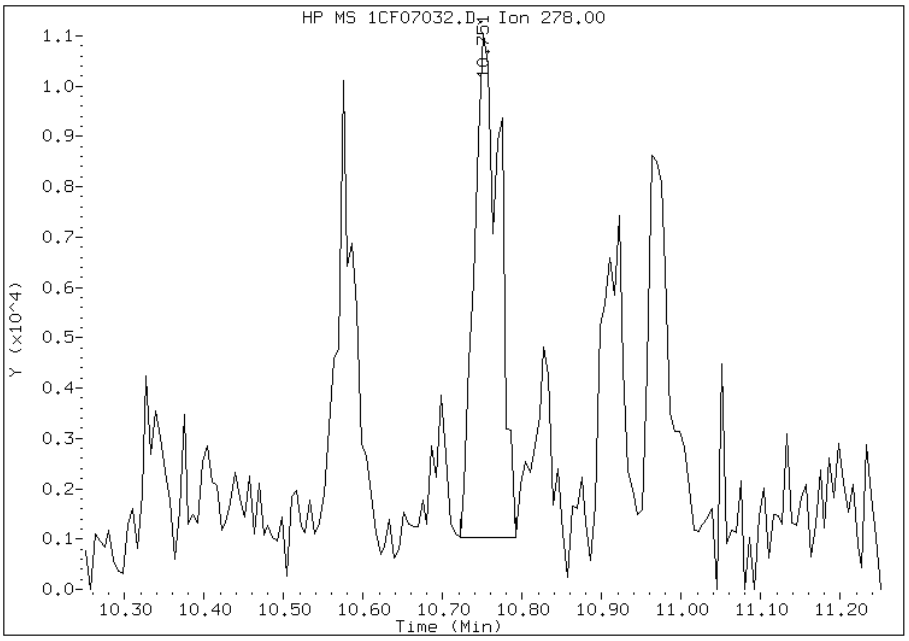
Manual Integration Results

RT: 10.75

Response: 22345

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07032.D
Inj. Date and Time: 07-JUN-2013 20:29
Instrument ID: BSMC5973.i
Client ID: HP0125B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

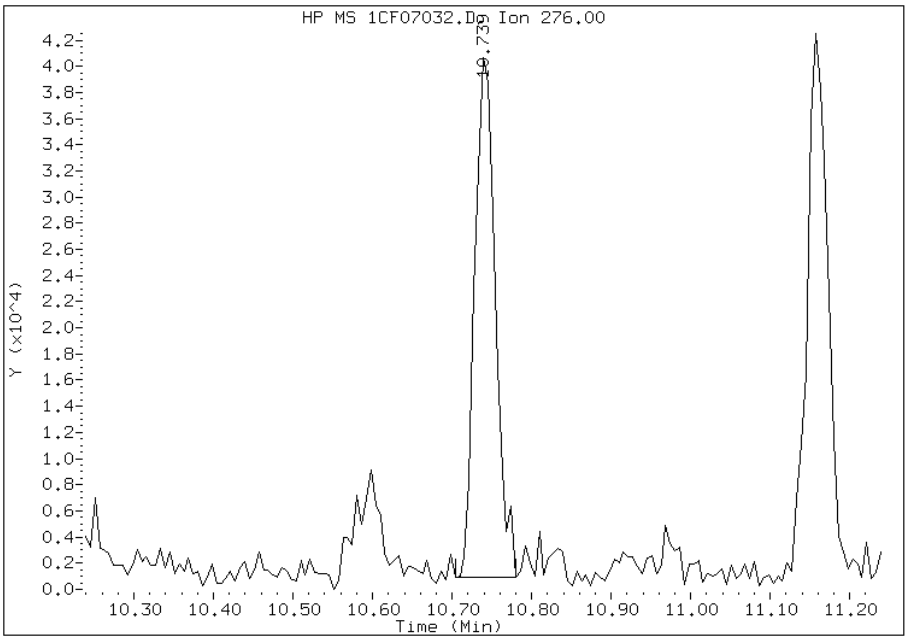
Processing Integration Results

RT: 10.74

Response: 70752

Amount: 1

Conc: 84



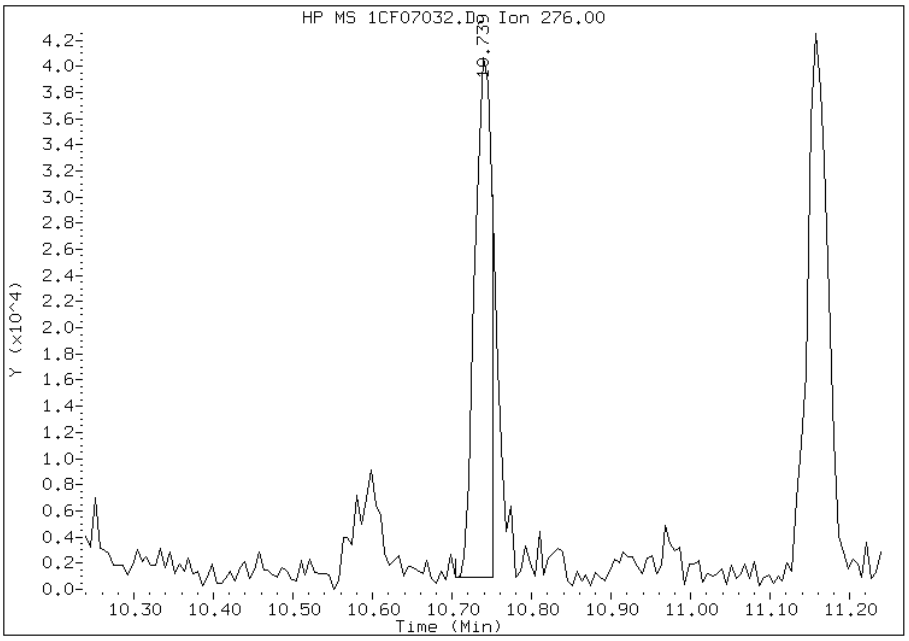
Manual Integration Results

RT: 10.74

Response: 59048

Amount: 1

Conc: 72



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0193A-CS-SP | Lab Sample ID: 680-90852-37

Matrix: Solid | Lab File ID: 1CF07033.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 14:23

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

Sample wt/vol: 15.27(g) | Date Analyzed: 06/07/2013 20:47

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.: 138203 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	6.8	J	46	5.8
120-12-7	Anthracene	11		9.7	4.8
56-55-3	Benzo[a]anthracene	59		9.2	4.5
50-32-8	Benzo[a]pyrene	53		12	6.0
205-99-2	Benzo[b]fluoranthene	96		14	7.0
191-24-2	Benzo[g,h,i]perylene	53		23	5.1
207-08-9	Benzo[k]fluoranthene	30		9.2	4.1
218-01-9	Chrysene	81		10	5.2
53-70-3	Dibenz(a,h)anthracene	15	J	23	4.7
206-44-0	Fluoranthene	87		23	4.6
86-73-7	Fluorene	8.6	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	50		23	8.2
90-12-0	1-Methylnaphthalene	54		46	5.1
91-57-6	2-Methylnaphthalene	75		46	8.2
91-20-3	Naphthalene	50		46	5.1
85-01-8	Phenanthrene	90		9.2	4.5
129-00-0	Pyrene	71		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	41		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07033.D
Lab Smp Id: 680-90852-A-37-A Client Smp ID: HP0193A-CS-SP
Inj Date : 07-JUN-2013 20:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-37-a
Misc Info : 680-90852-A-37-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: 33
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	15.270	Weight Extracted
M	14.658	% 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)	2132702	40.0000	
*	6 Acenaphthene-d10	164	5.116	5.116	(1.000)	1580134	40.0000	
*	10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2943832	40.0000	
$	14 o-Terphenyl	230	6.333	6.333	(1.041)	188615	4.11308	315.6217
*	18 Chrysene-d12	240	8.045	8.051	(1.000)	3473759	40.0000	
*	23 Perylene-d12	264	9.374	9.374	(1.000)	3140005	40.0000	
	2 Naphthalene	128	4.045	4.045	(1.003)	39156	0.65060	49.9244
	3 2-Methylnaphthalene	142	4.469	4.468	(1.108)	32598	0.97650	74.9326
	4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	23110	0.70363	53.9936
	5 Acenaphthylene	152	5.033	5.033	(0.984)	5367	0.08860	6.7988
	9 Fluorene	166	5.463	5.463	(1.068)	5411	0.11164	8.5666(Q)
	11 Phenanthrene	178	6.104	6.104	(1.003)	102544	1.17903	90.4742
	12 Anthracene	178	6.133	6.139	(1.008)	11588	0.14382	11.0358
	13 Carbazole	167	6.239	6.239	(1.025)	10914	0.25986	19.9408(Q)

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)	100251	1.12770	86.5355
16 Pyrene	202	7.121	7.121	(0.885)	86841	0.92579	71.0413
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	74253	0.77519	59.4849
19 Chrysene	228	8.062	8.068	(1.002)	101856	1.05616	81.0453
20 Benzo(b)fluoranthene	252	8.968	8.968	(0.957)	96788	1.25457	96.2709(M)
21 Benzo(k)fluoranthene	252	8.992	8.998	(0.959)	33553	0.38940	29.8808(M)
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	47051	0.69711	53.4938
24 Indeno(1,2,3-cd)pyrene	276	10.745	10.745	(1.146)	41007	0.64672	49.6271(M)
25 Dibenzo(a,h)anthracene	278	10.762	10.762	(1.148)	12850	0.19173	14.7128
26 Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	50016	0.68565	52.6138

QC Flag Legend

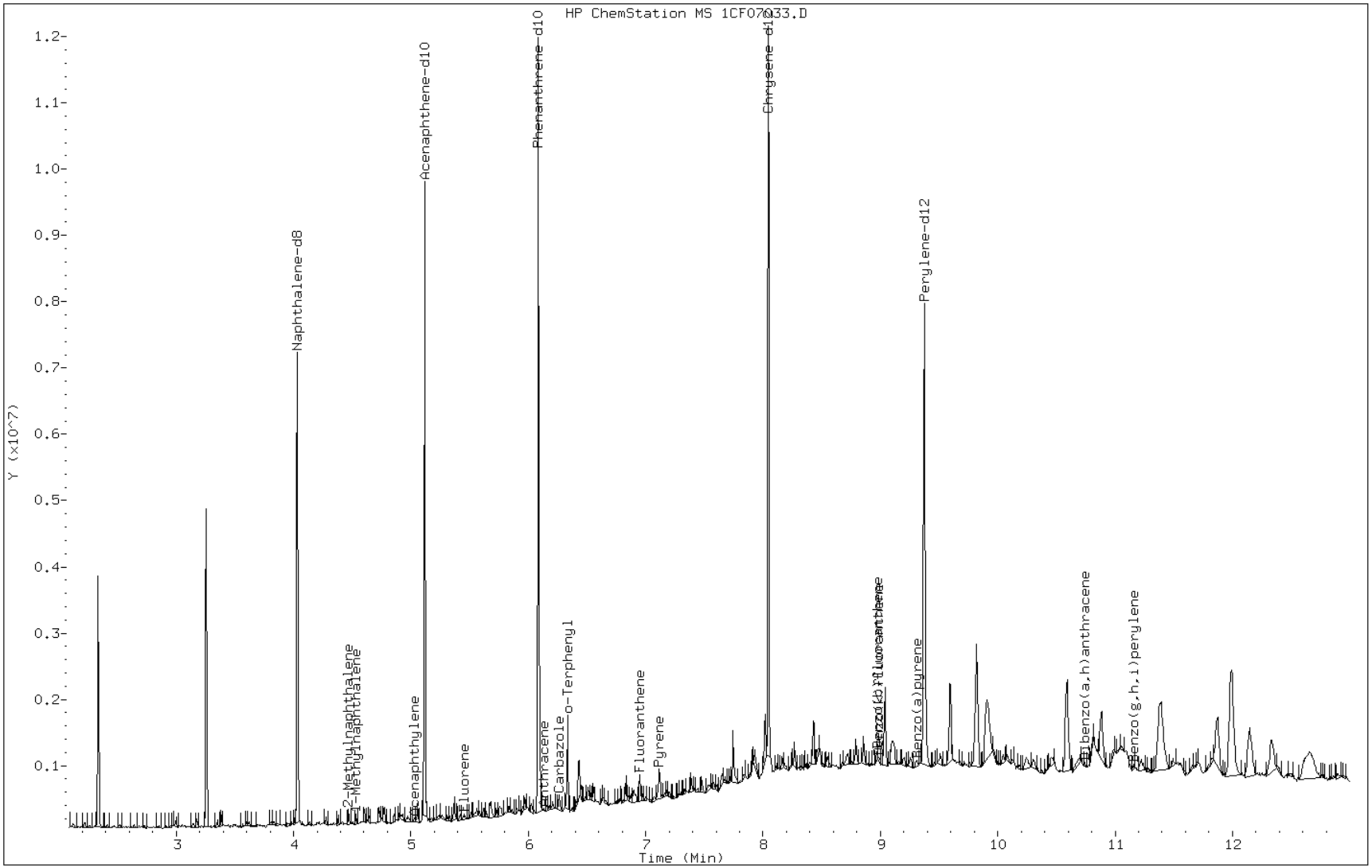
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC



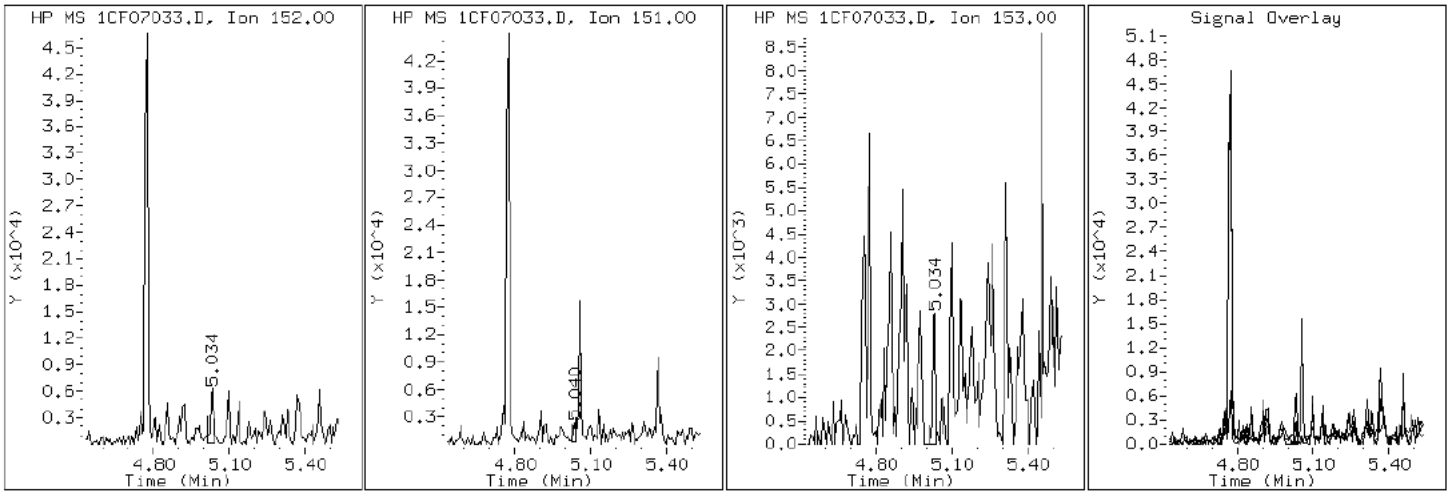
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

5 Acenaphthylene



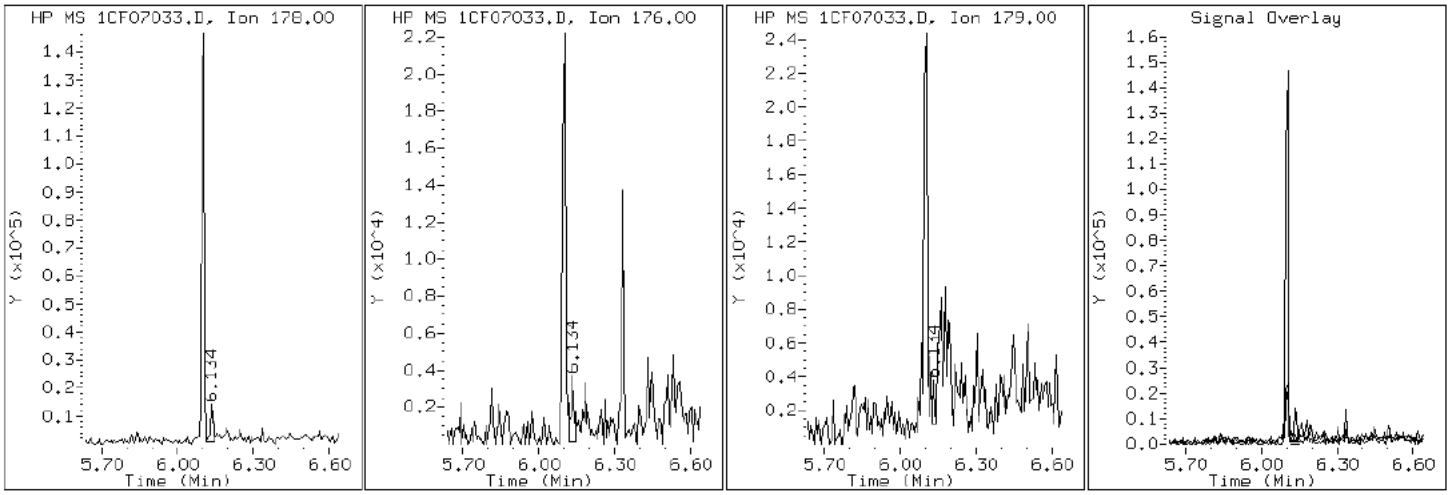
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

12 Anthracene



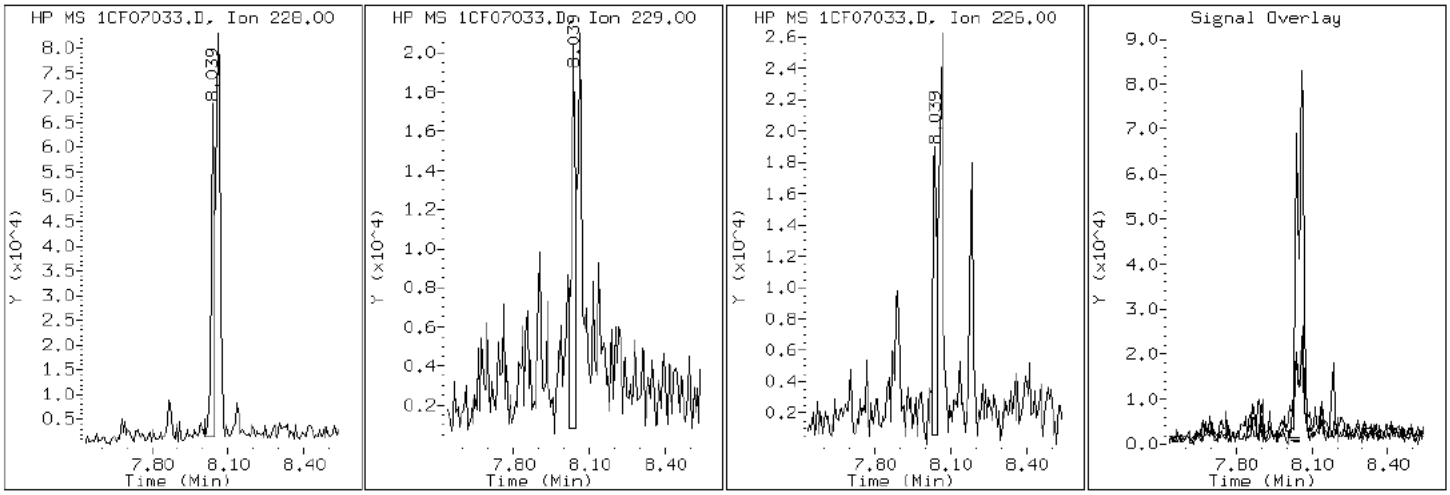
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

17 Benzo(a)anthracene



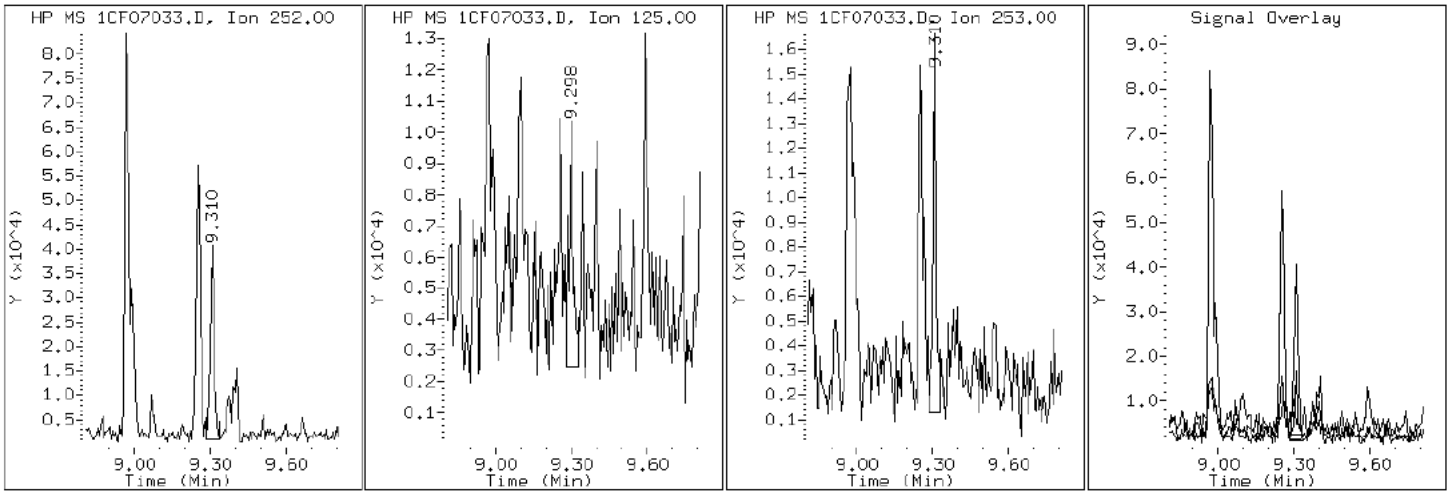
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

22 Benzo(a)pyrene



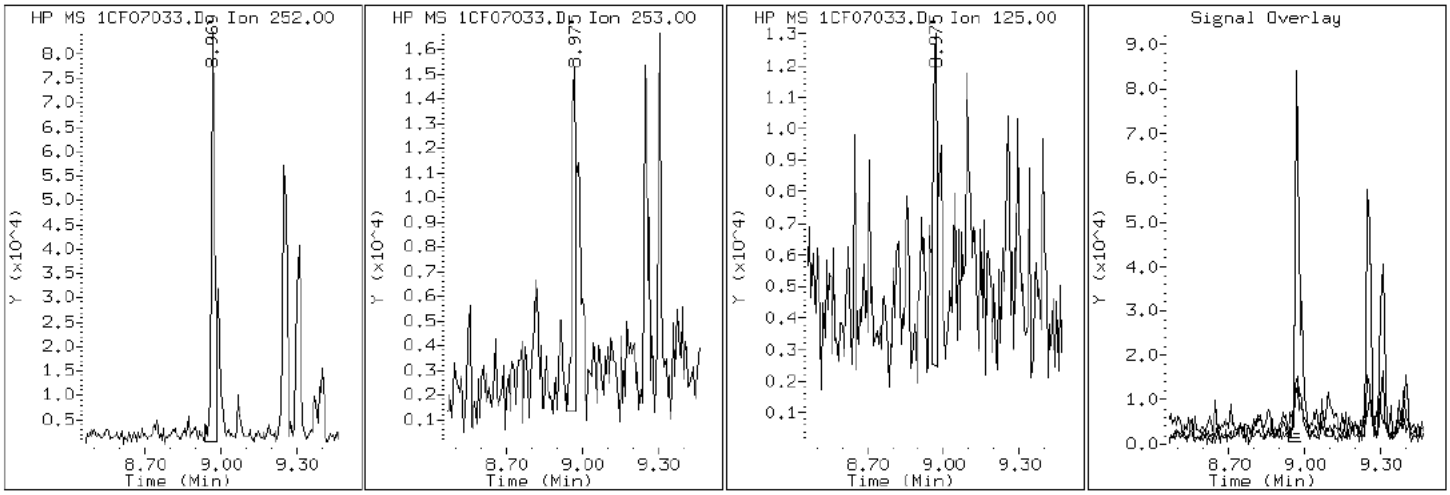
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



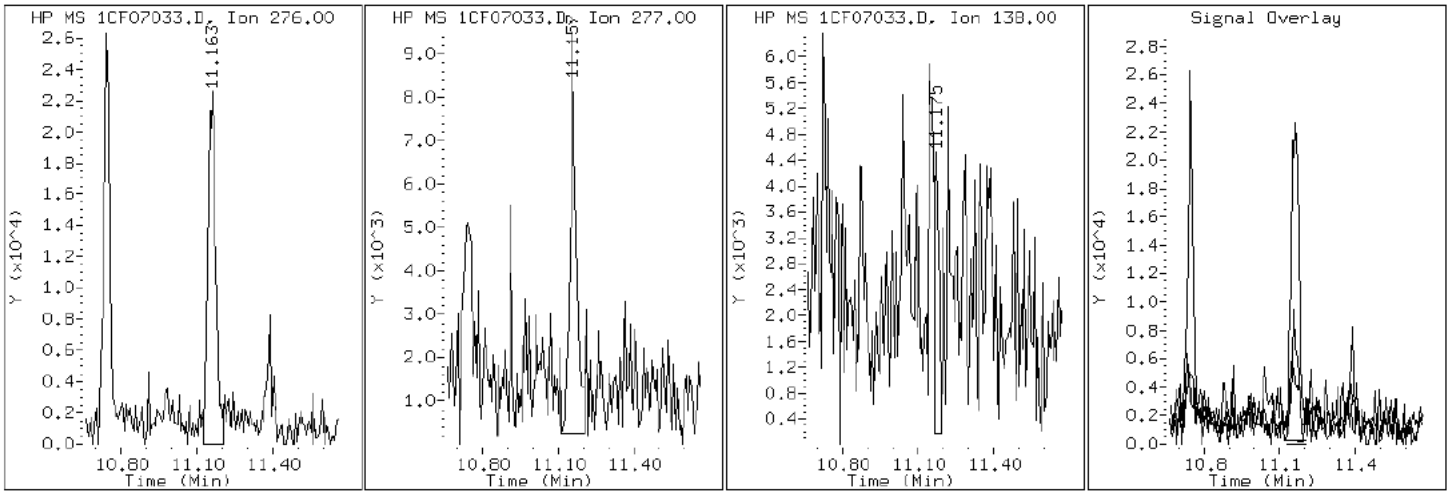
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



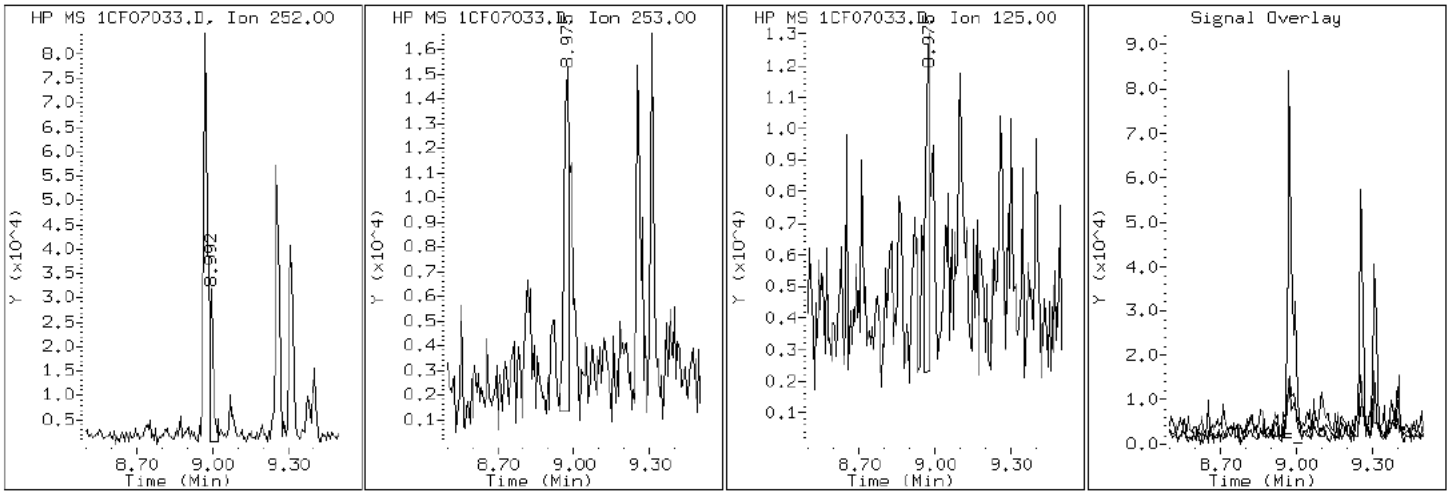
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



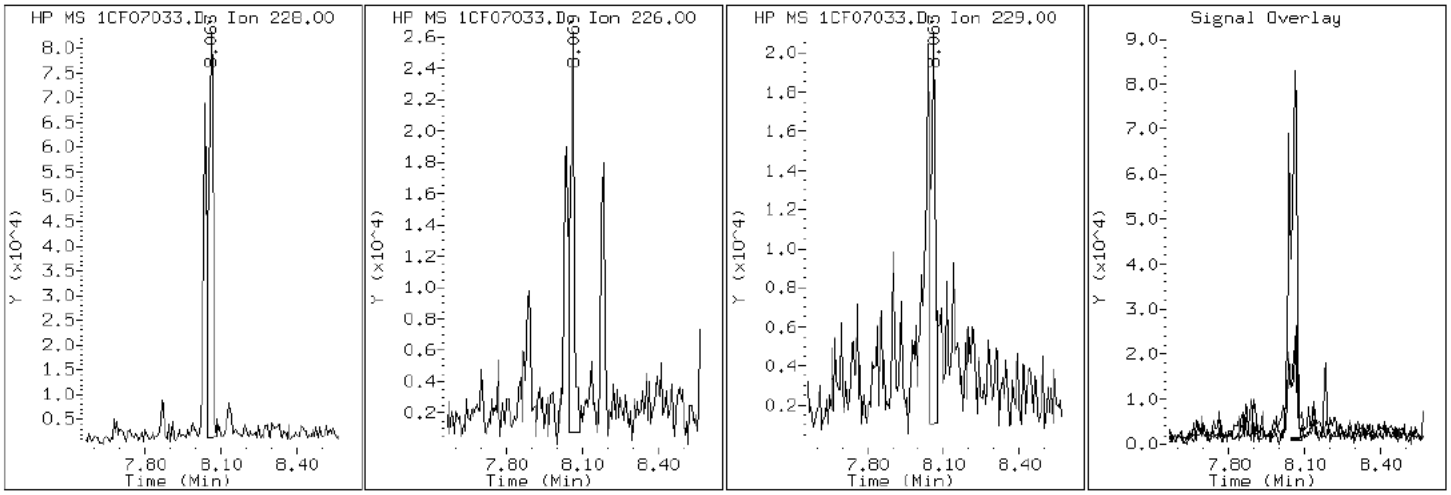
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

19 Chrysene



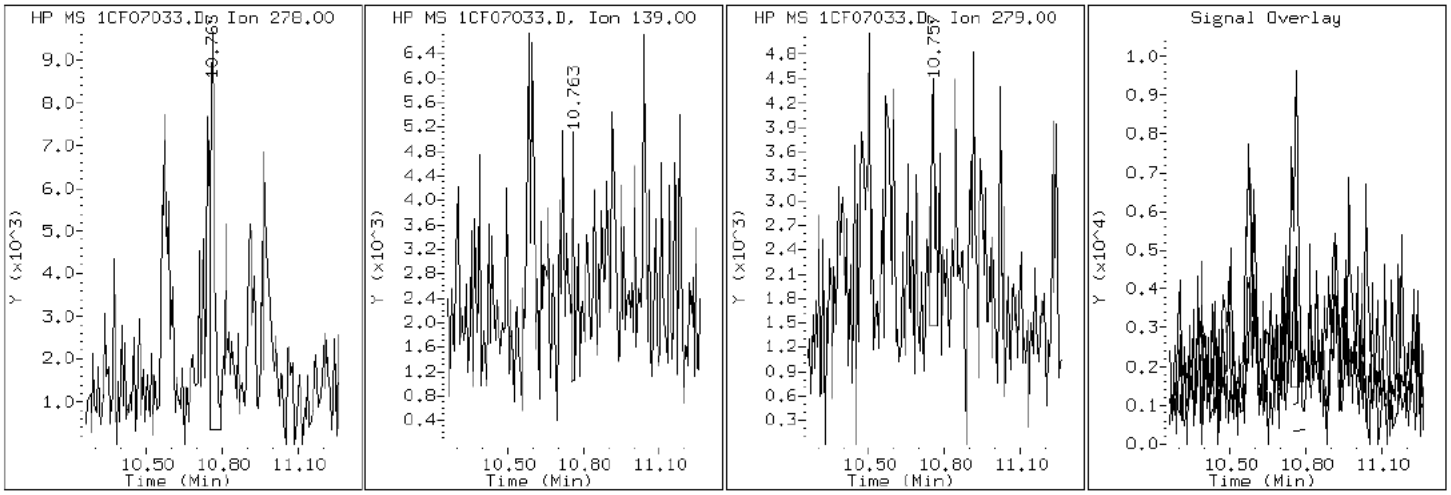
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



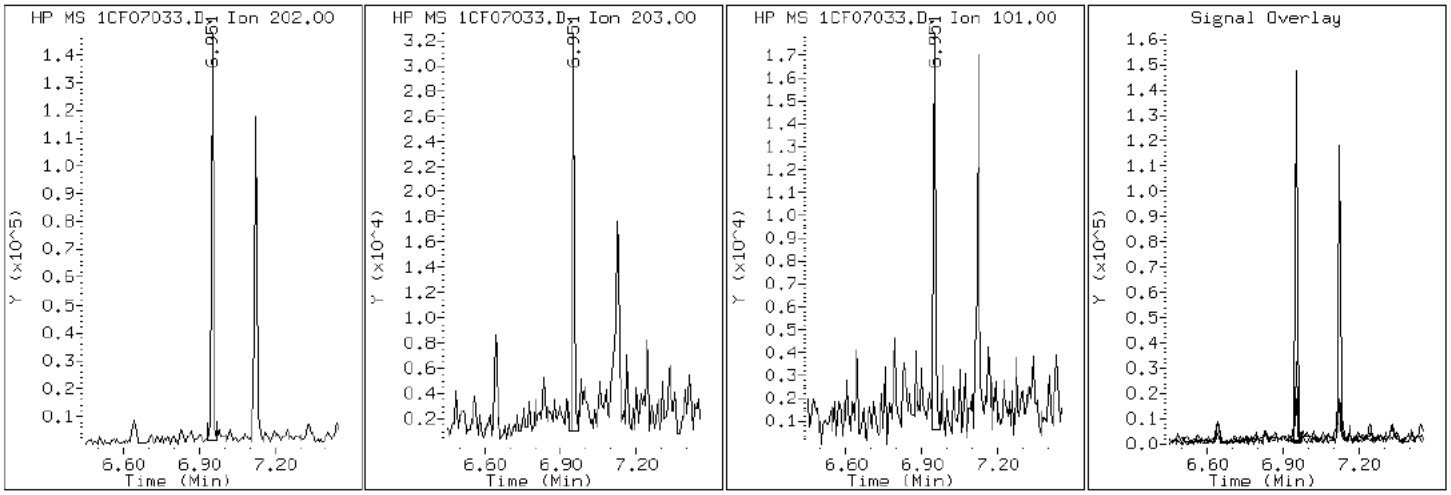
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

15 Fluoranthene



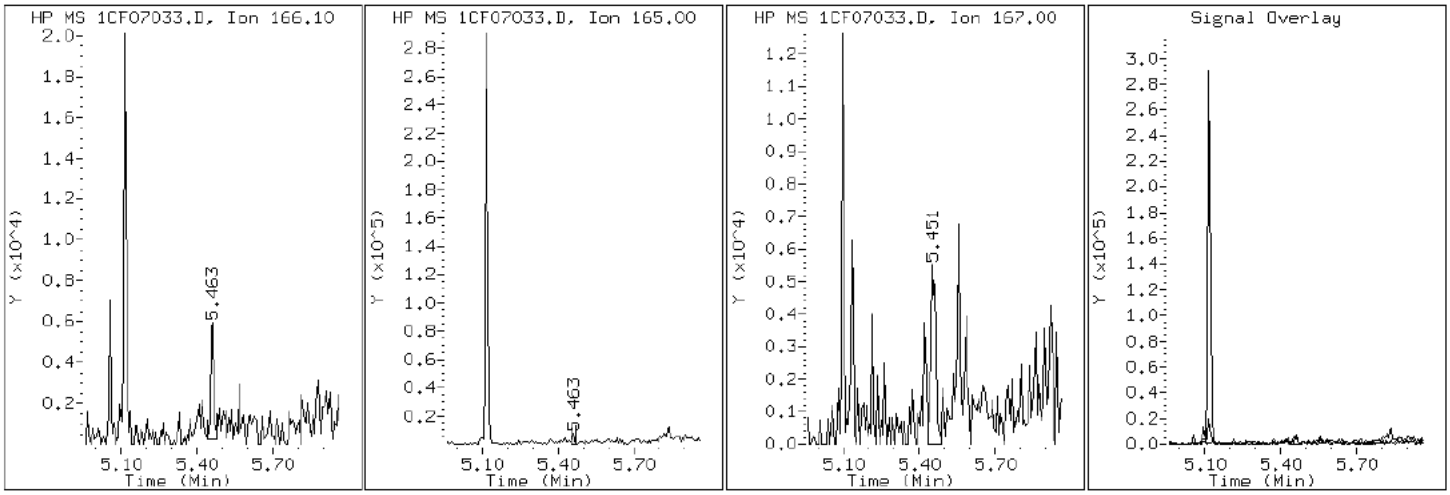
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

9 Fluorene



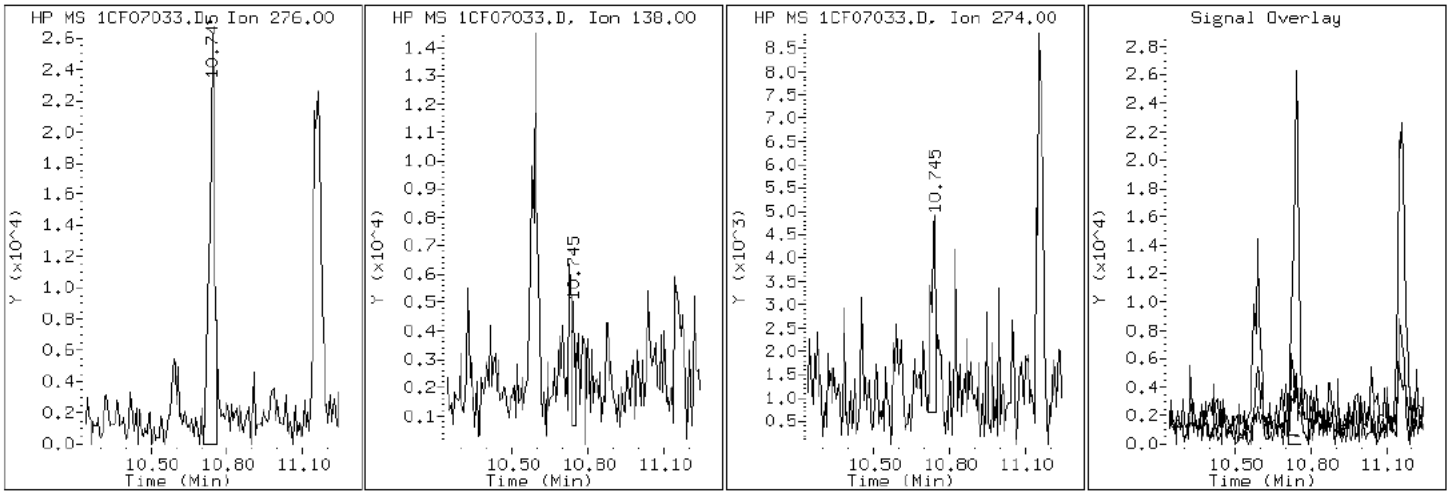
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

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



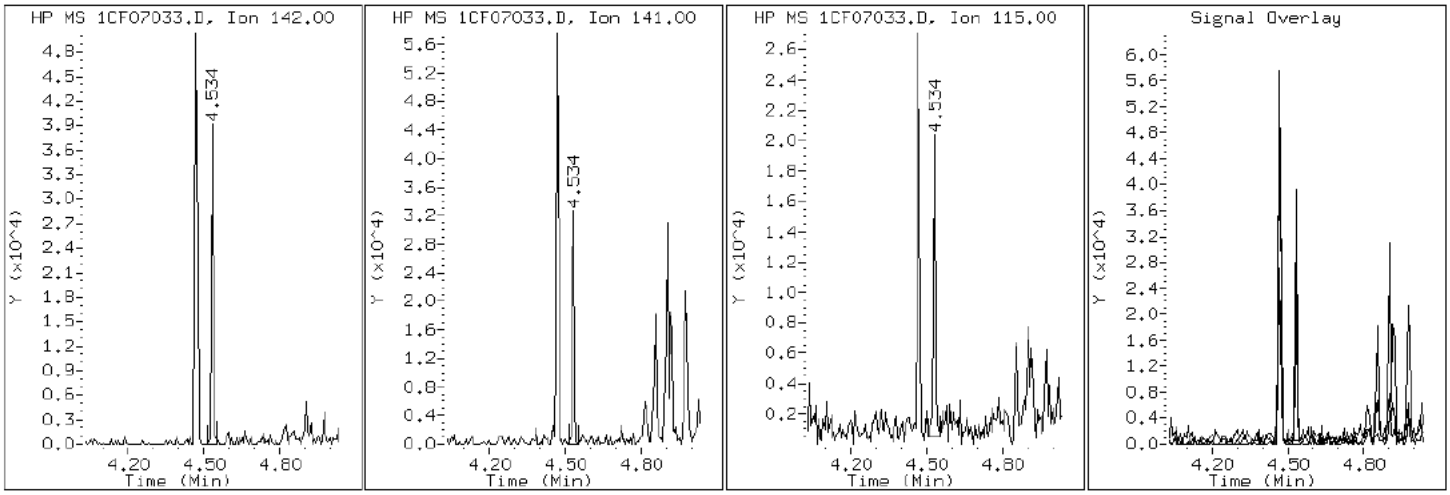
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

4 1-Methylnaphthalene



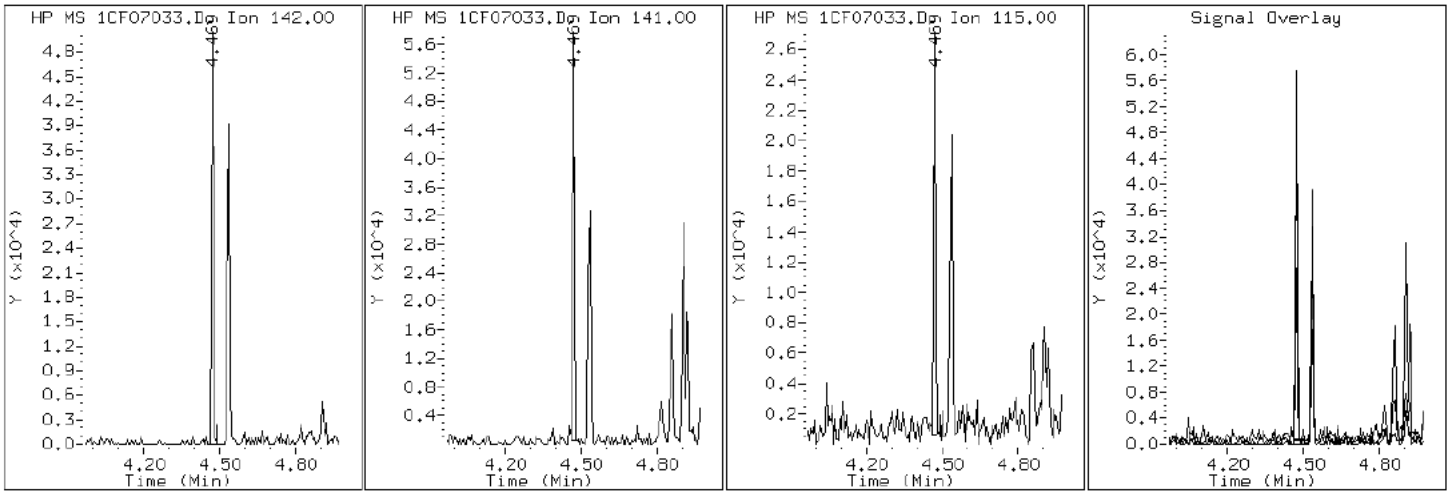
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

3 2-Methylnaphthalene



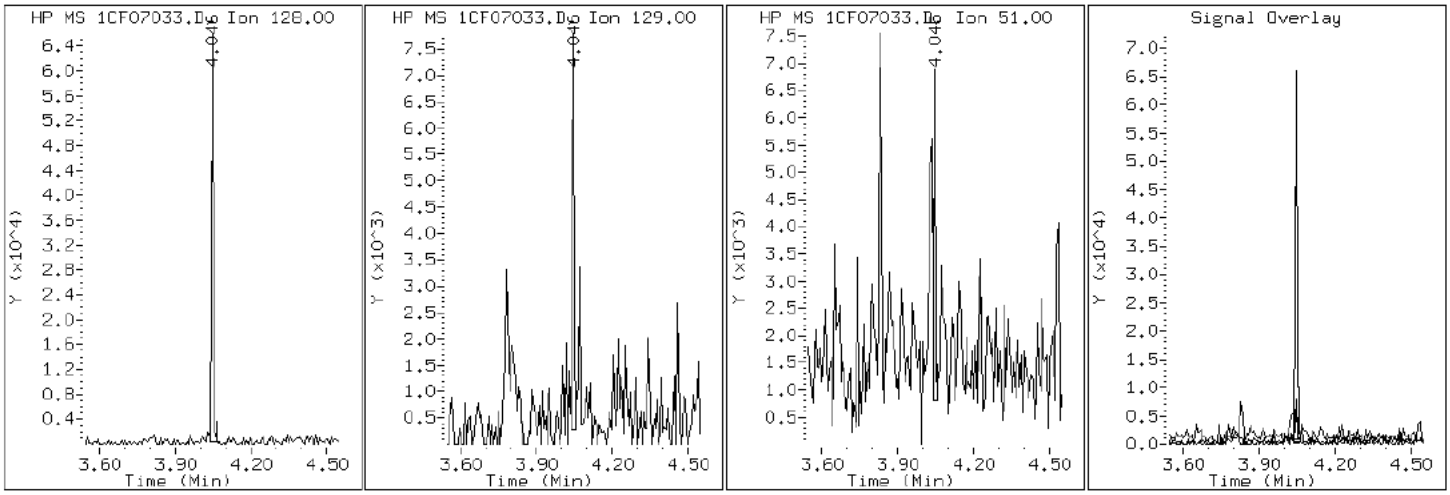
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

2 Naphthalene



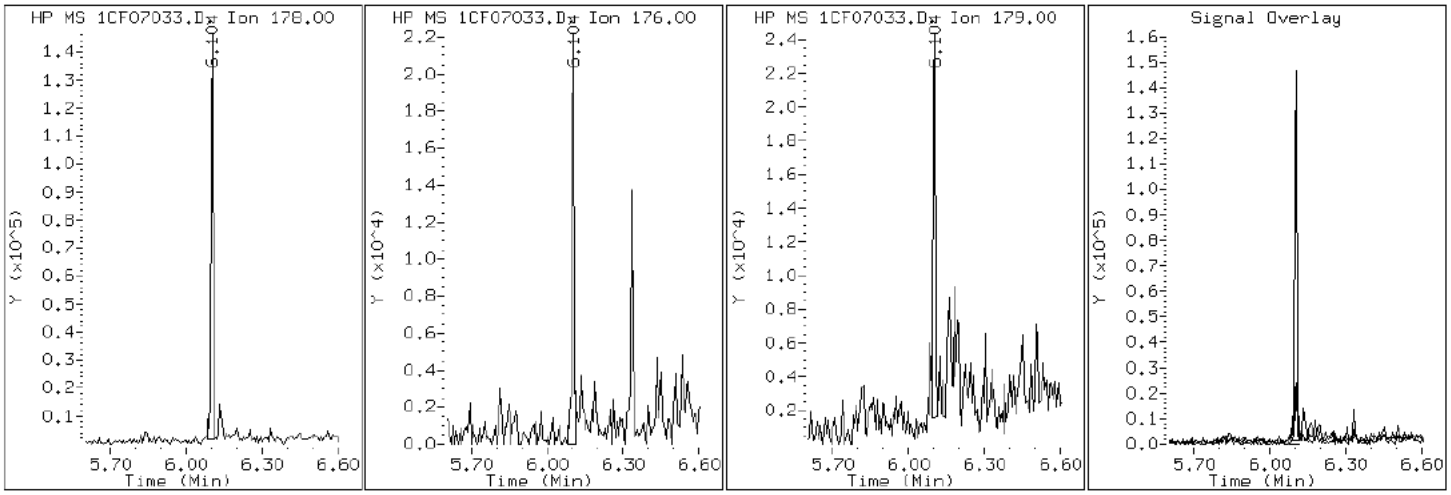
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

11 Phenanthrene



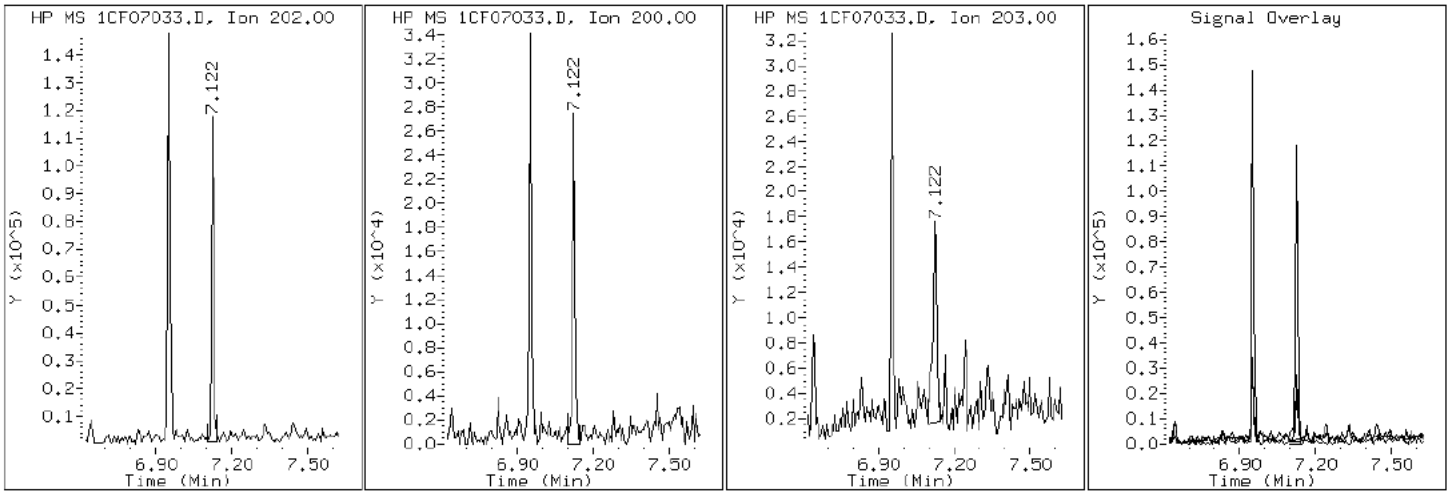
Data File: 1CF07033.D

Date: 07-JUN-2013 20:47

Client ID: HP0193A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07033.D
Inj. Date and Time: 07-JUN-2013 20:47
Instrument ID: BSMC5973.i
Client ID: HP0193A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/09/2013

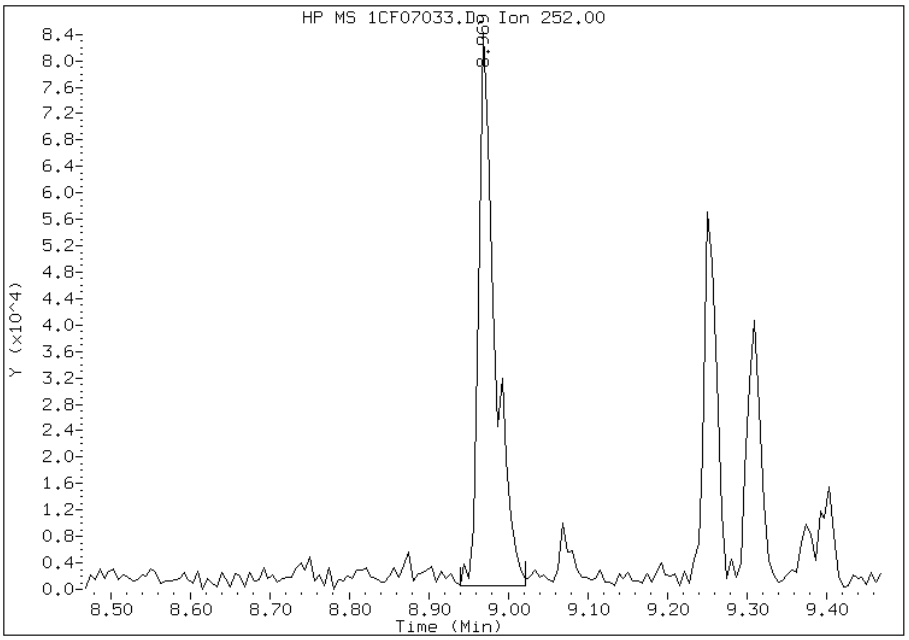
Processing Integration Results

RT: 8.97

Response: 121451

Amount: 2

Conc: 121



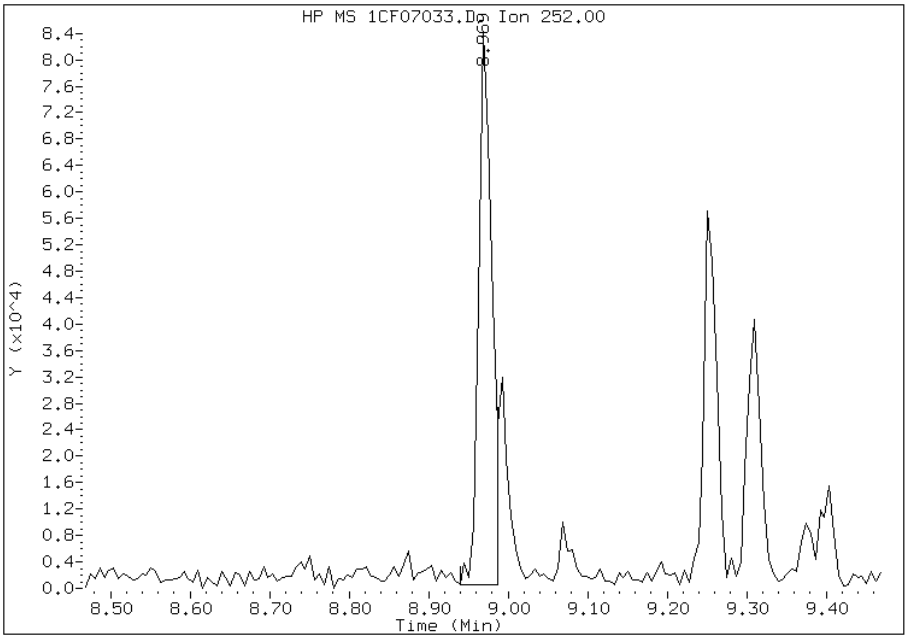
Manual Integration Results

RT: 8.97

Response: 96788

Amount: 1

Conc: 96



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF07033.D
Inj. Date and Time: 07-JUN-2013 20:47
Instrument ID: BSMC5973.i
Client ID: HP0193A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/09/2013

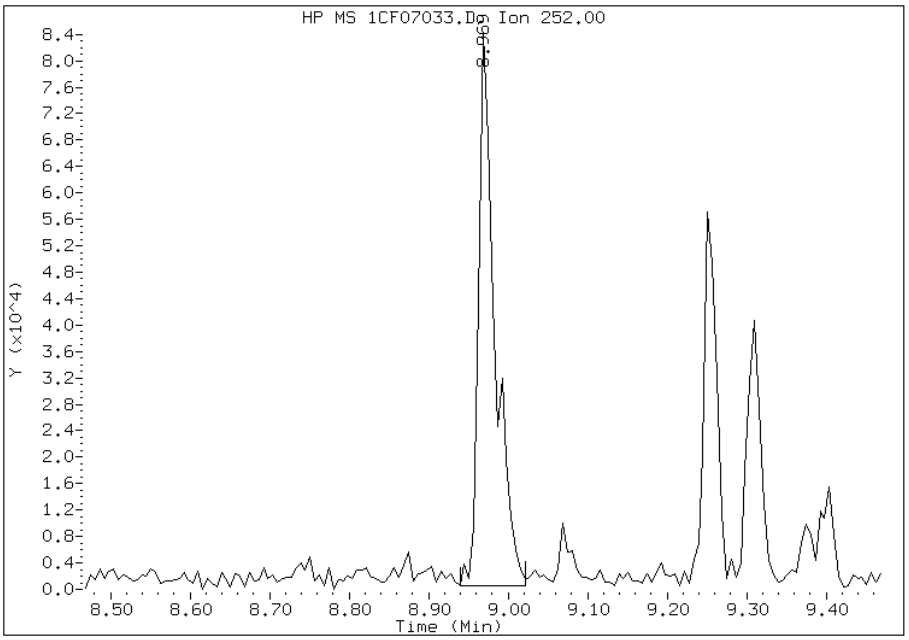
Processing Integration Results

RT: 8.97

Response: 121451

Amount: 1

Conc: 108



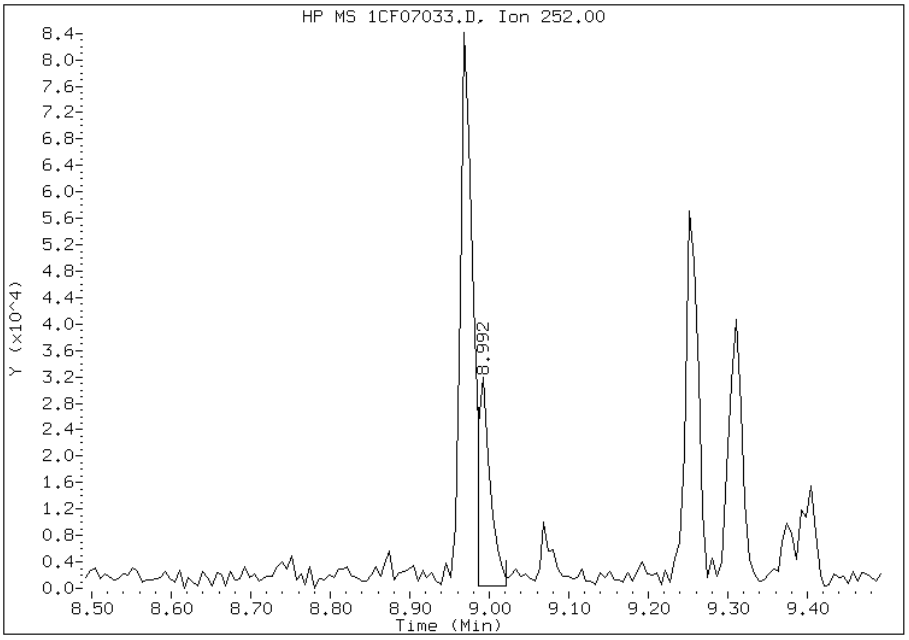
Manual Integration Results

RT: 8.99

Response: 33553

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07033.D
Inj. Date and Time: 07-JUN-2013 20:47
Instrument ID: BSMC5973.i
Client ID: HP0193A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

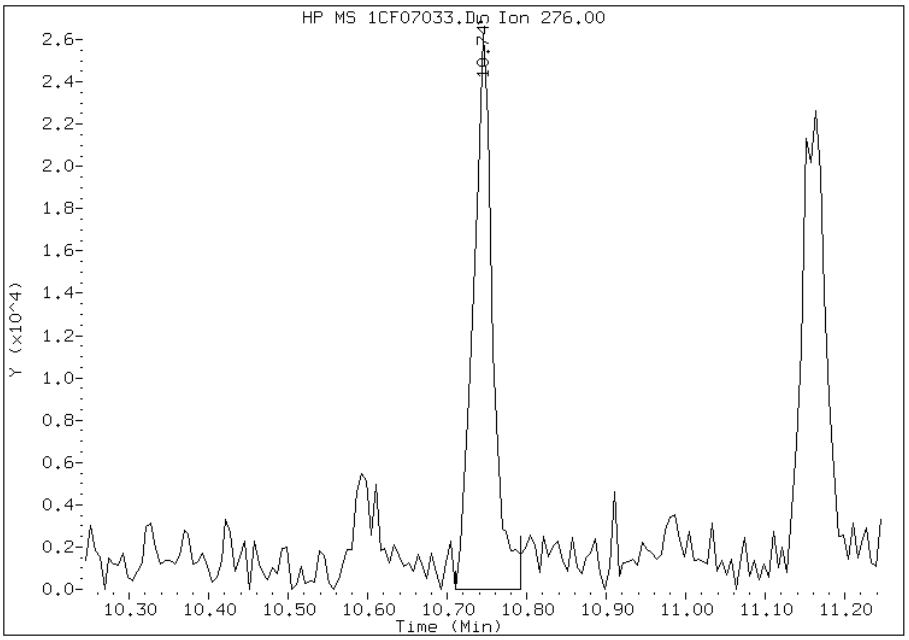
Processing Integration Results

RT: 10.75

Response: 44856

Amount: 1

Conc: 53



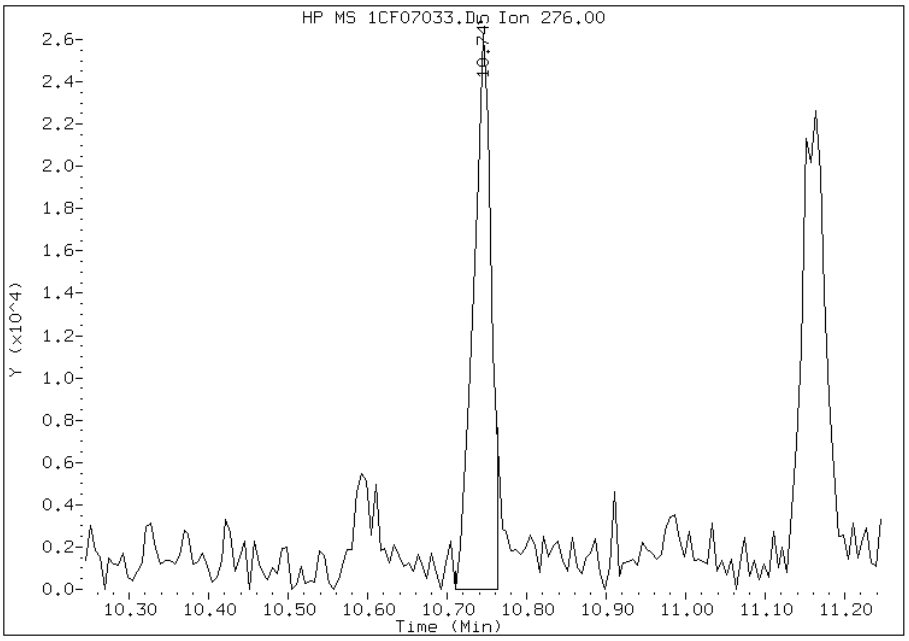
Manual Integration Results

RT: 10.75

Response: 41007

Amount: 1

Conc: 50



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0193B-CS-SP | Lab Sample ID: 680-90852-38

Matrix: Solid | Lab File ID: 1CF07034.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 14:34

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

Sample wt/vol: 15.05(g) | Date Analyzed: 06/07/2013 21:06

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

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

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	51		50	6.2
120-12-7	Anthracene	35		10	5.2
56-55-3	Benzo[a]anthracene	160		10	4.9
50-32-8	Benzo[a]pyrene	180		13	6.5
205-99-2	Benzo[b]fluoranthene	340		15	7.6
191-24-2	Benzo[g,h,i]perylene	150		25	5.5
207-08-9	Benzo[k]fluoranthene	100		10	4.5
218-01-9	Chrysene	200		11	5.6
53-70-3	Dibenz(a,h)anthracene	44		25	5.1
206-44-0	Fluoranthene	260		25	5.0
86-73-7	Fluorene	15	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	140		25	8.9
90-12-0	1-Methylnaphthalene	71		50	5.5
91-57-6	2-Methylnaphthalene	110		50	8.9
91-20-3	Naphthalene	150		50	5.5
85-01-8	Phenanthrene	160		10	4.9
129-00-0	Pyrene	220		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07034.D
Lab Smp Id: 680-90852-A-38-A Client Smp ID: HP0193B-CS-SP
Inj Date : 07-JUN-2013 21:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-38-a
Misc Info : 680-90852-A-38-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: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	20.139	% 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)	2104405	40.0000	
* 6 Acenaphthene-d10	164	5.115	5.116	(1.000)	1522601	40.0000	
* 10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2870252	40.0000	
$ 14 o-Terphenyl	230	6.333	6.333	(1.041)	246081	5.50379	457.9201
* 18 Chrysene-d12	240	8.051	8.051	(1.000)	3404744	40.0000	
* 23 Perylene-d12	264	9.374	9.374	(1.000)	3083655	40.0000	
2 Naphthalene	128	4.045	4.045	(1.003)	109891	1.85045	153.9592
3 2-Methylnaphthalene	142	4.468	4.468	(1.108)	42808	1.29959	108.1269
4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	27773	0.85697	71.3008
5 Acenaphthylene	152	5.033	5.033	(0.984)	35438	0.60713	50.5135
9 Fluorene	166	5.462	5.463	(1.068)	8213	0.17585	14.6308(Q)
11 Phenanthrene	178	6.104	6.104	(1.003)	165655	1.95349	162.5324
12 Anthracene	178	6.139	6.139	(1.009)	32689	0.41610	34.6195
13 Carbazole	167	6.239	6.239	(1.025)	25375	0.46066	38.3277

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.951	6.951	(1.142)	272535	3.14428	261.6067
16 Pyrene	202	7.121	7.121	(0.885)	241044	2.62179	218.1354
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	180077	1.91808	159.5858
19 Chrysene	228	8.068	8.068	(1.002)	228526	2.41764	201.1500
20 Benzo(b)fluoranthene	252	8.974	8.968	(0.957)	307365	4.05688	337.5363
21 Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	105166	1.24280	103.4021
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	160242	2.16886	180.4515
24 Indeno(1,2,3-cd)pyrene	276	10.750	10.745	(1.147)	125362	1.67845	139.6488(M)
25 Dibenzo(a,h)anthracene	278	10.762	10.762	(1.148)	34703	0.52726	43.8684
26 Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	132428	1.84857	153.8026

QC Flag Legend

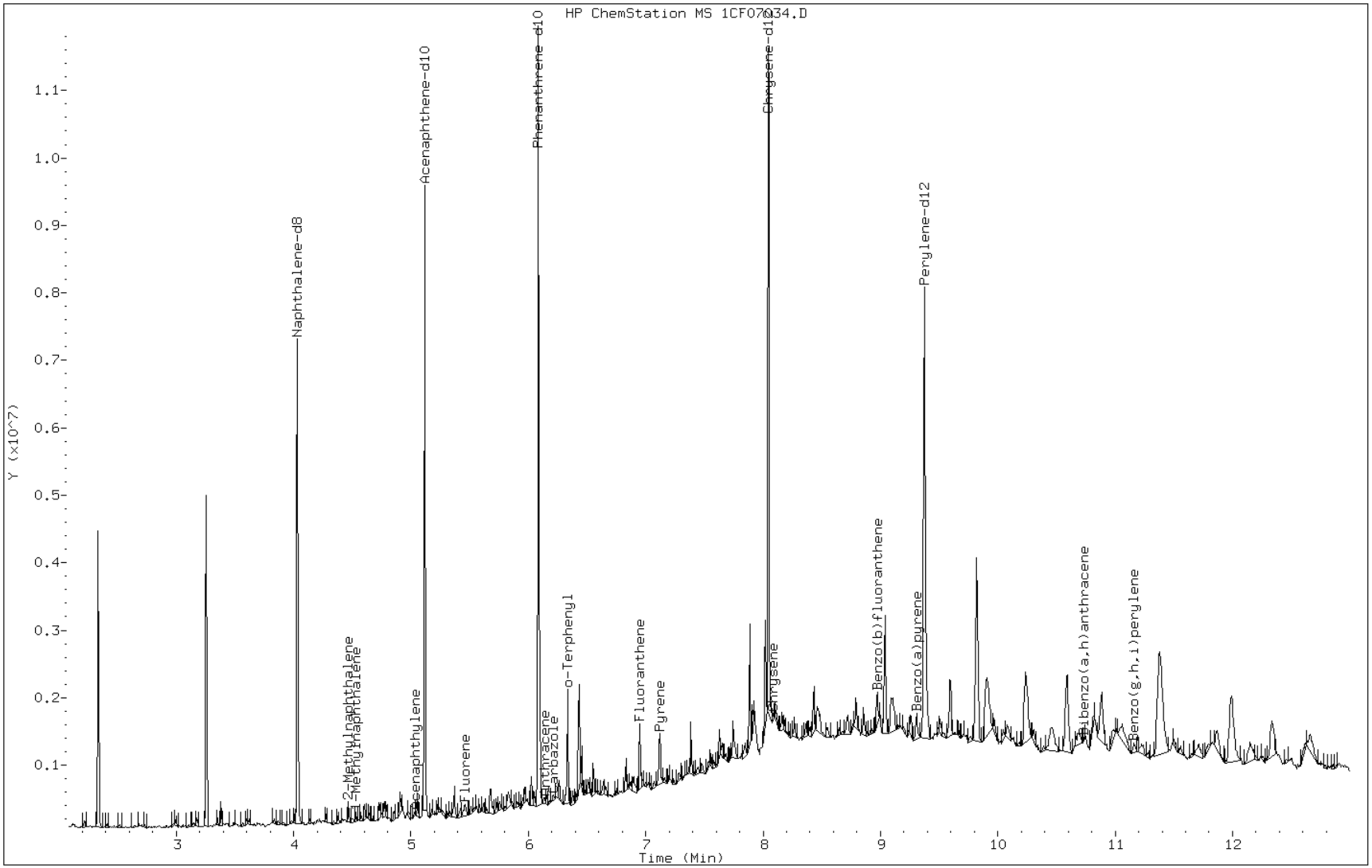
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC



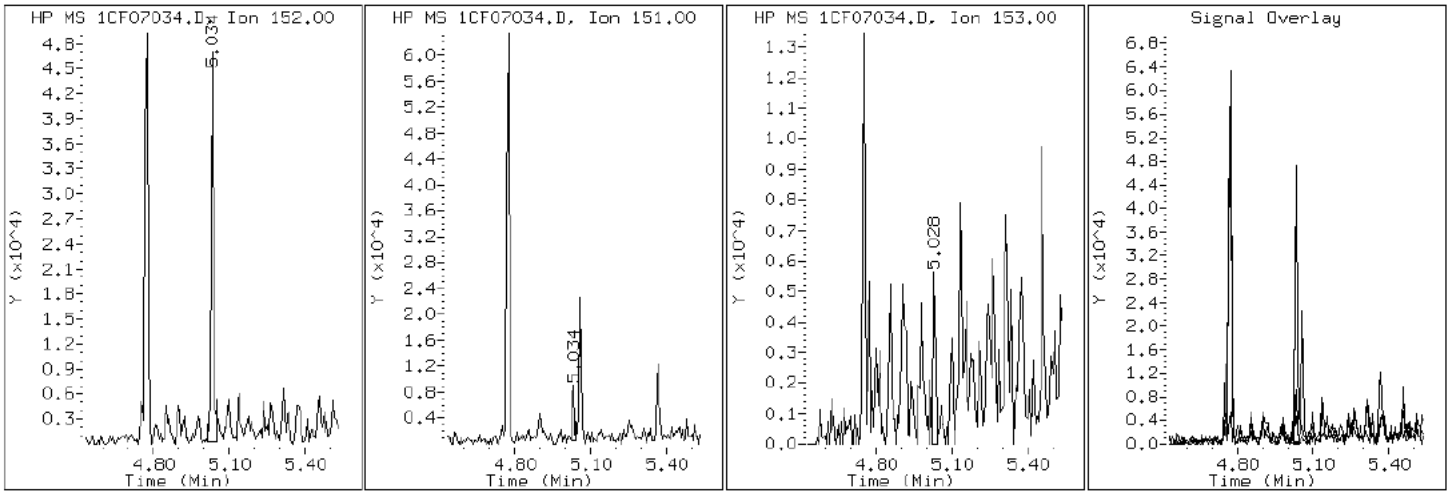
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

5 Acenaphthylene



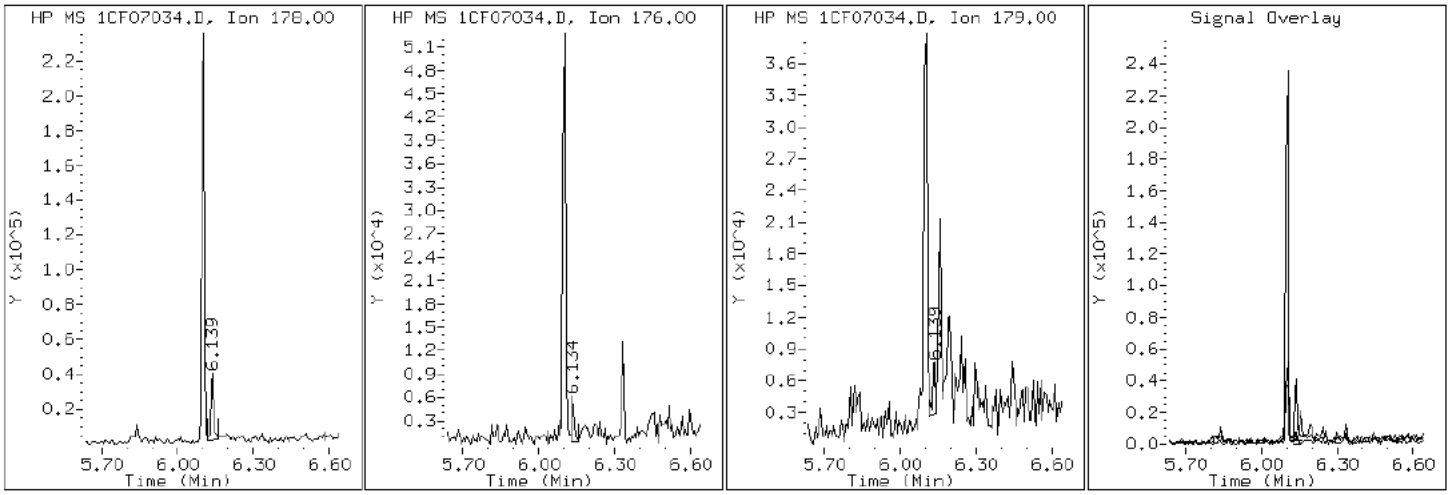
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

12 Anthracene



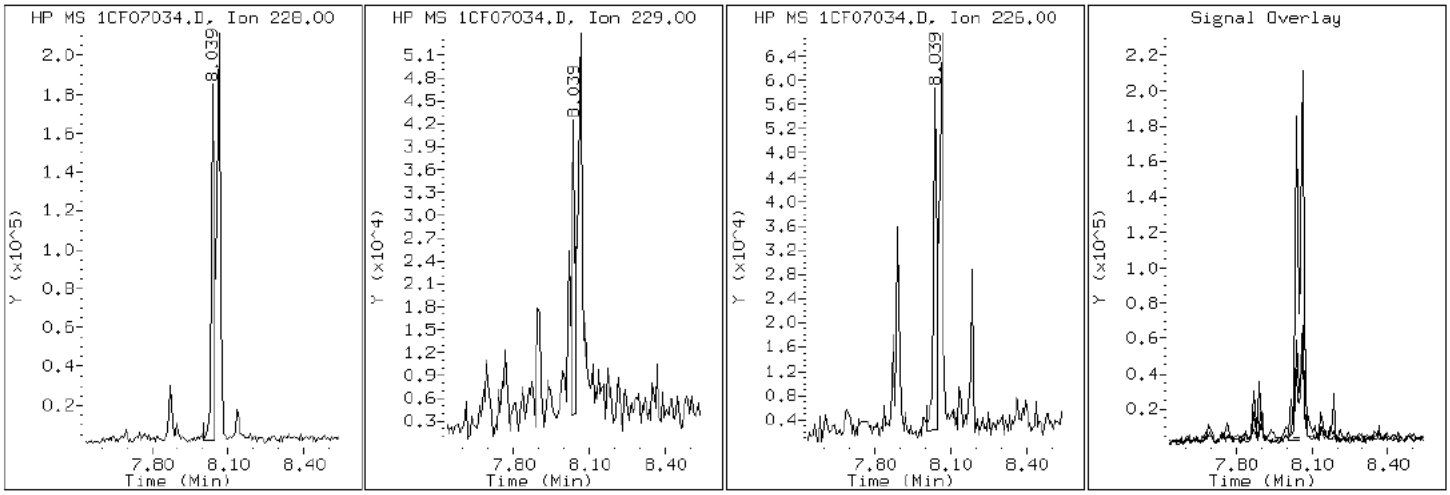
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

17 Benzo(a)anthracene



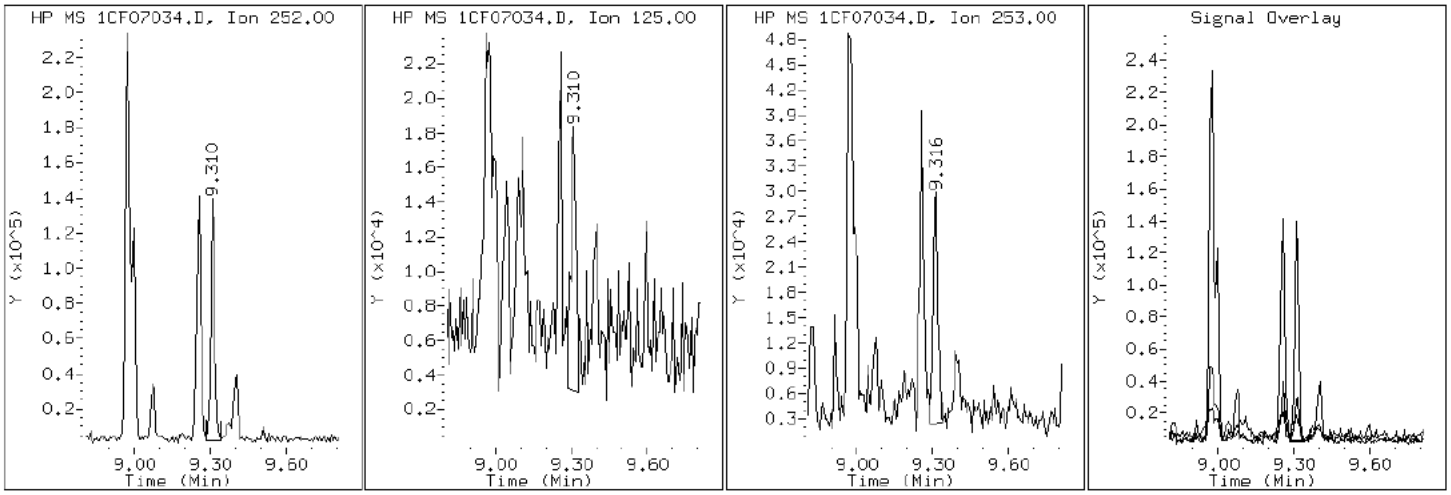
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

22 Benzo(a)pyrene



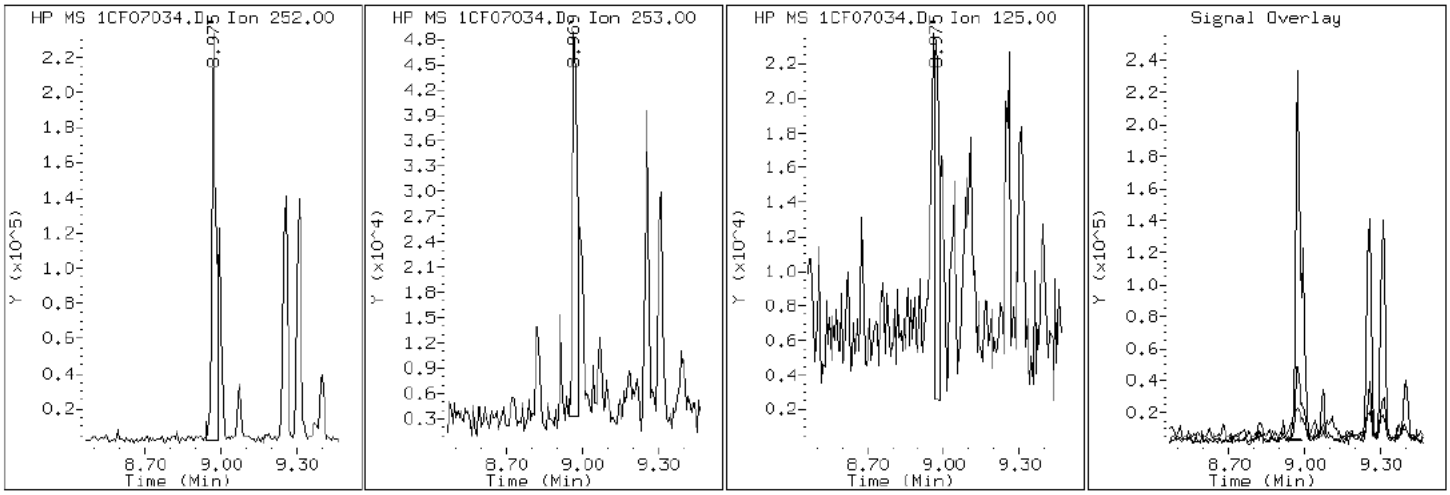
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



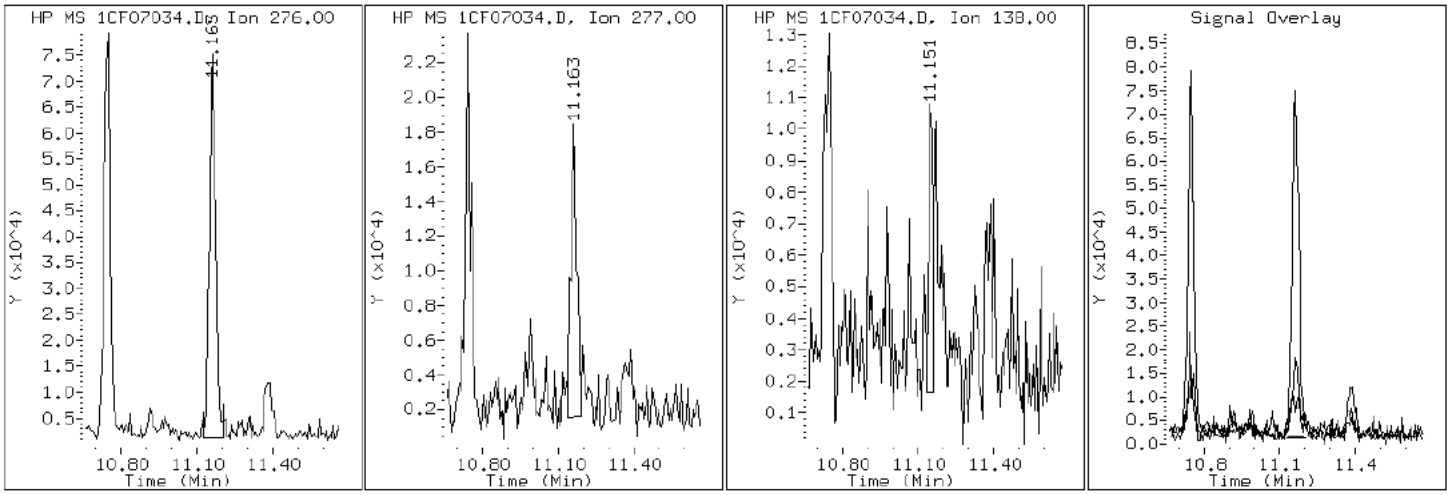
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



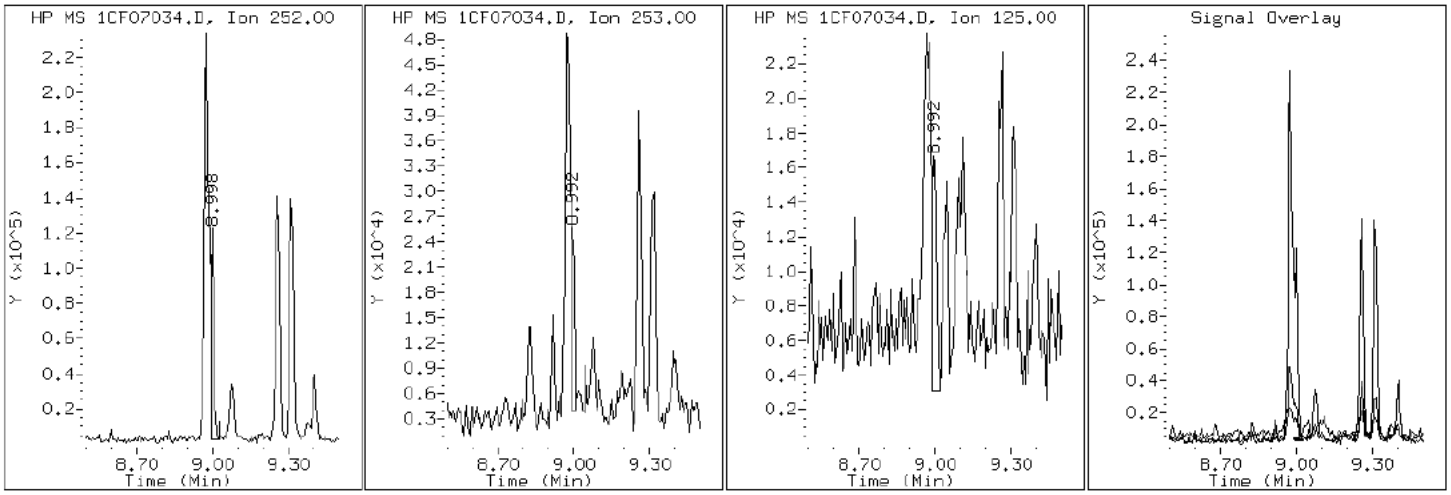
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



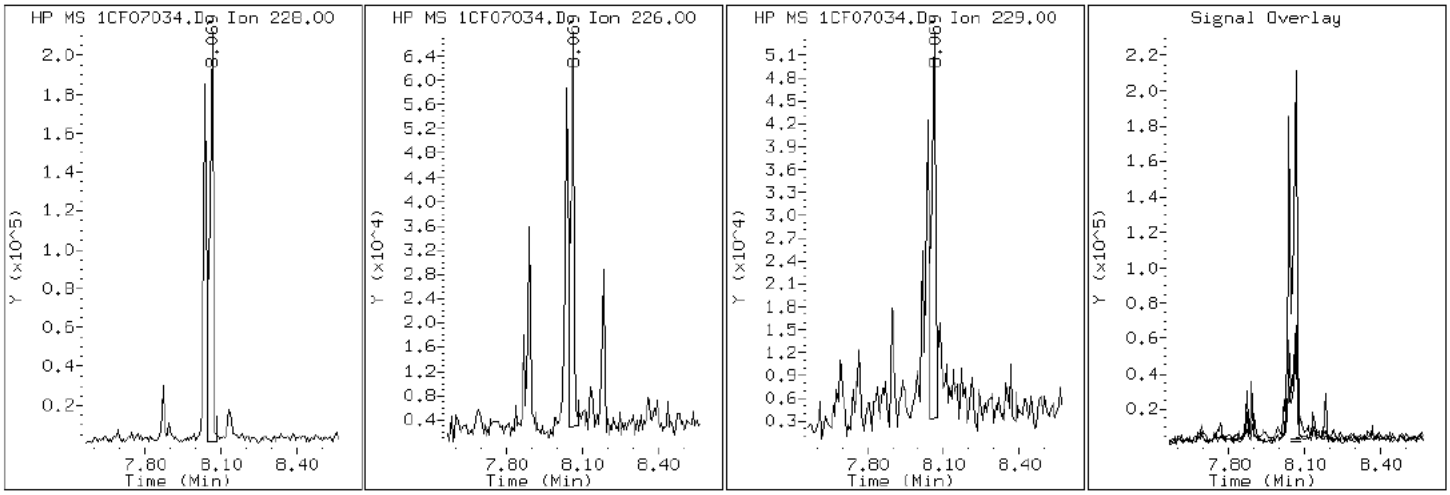
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

19 Chrysene



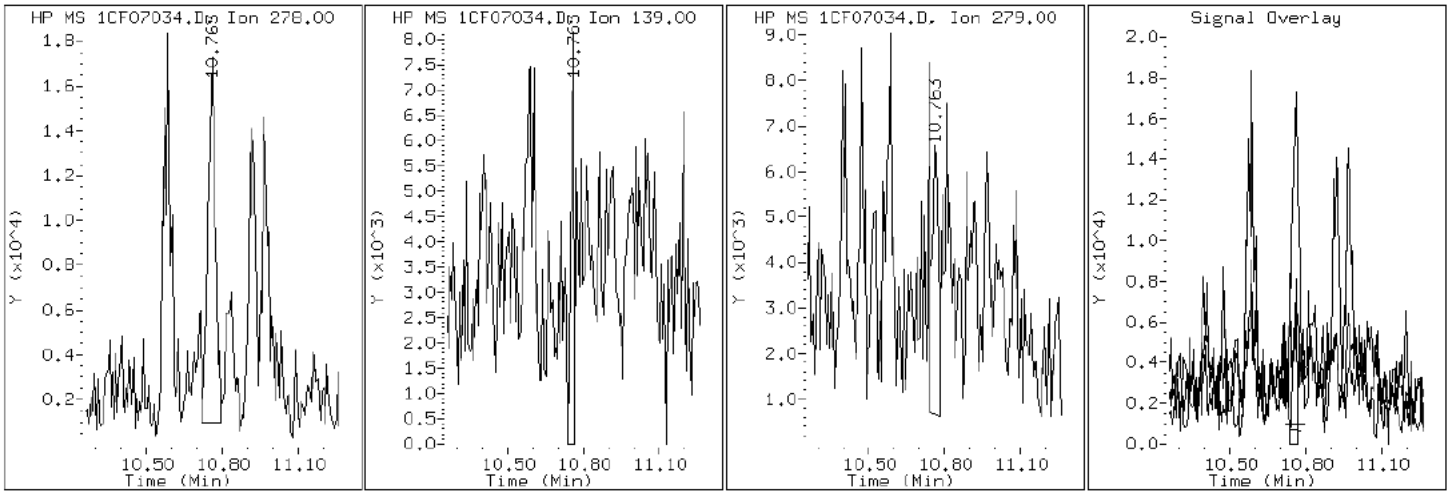
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

25 Dibenzo(a,h)anthracene



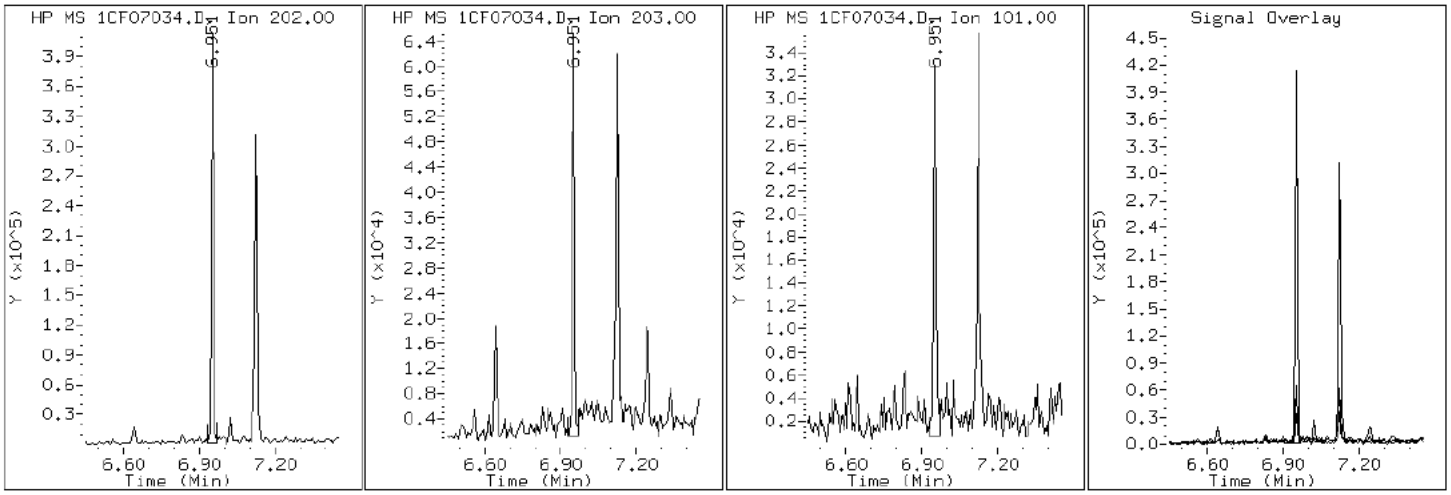
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

15 Fluoranthene



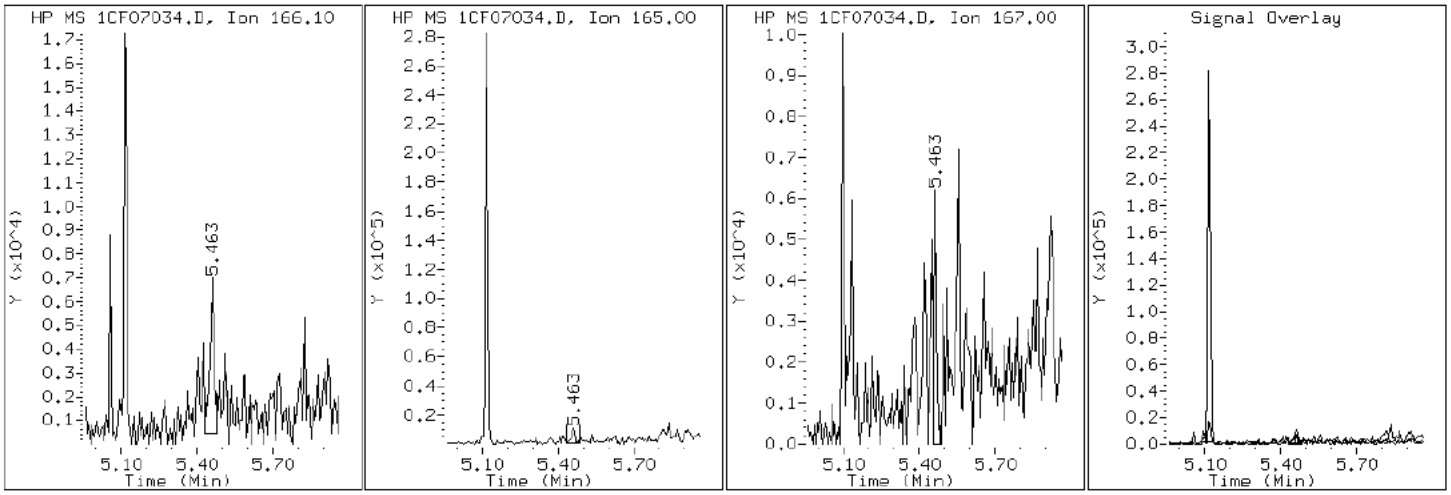
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

9 Fluorene



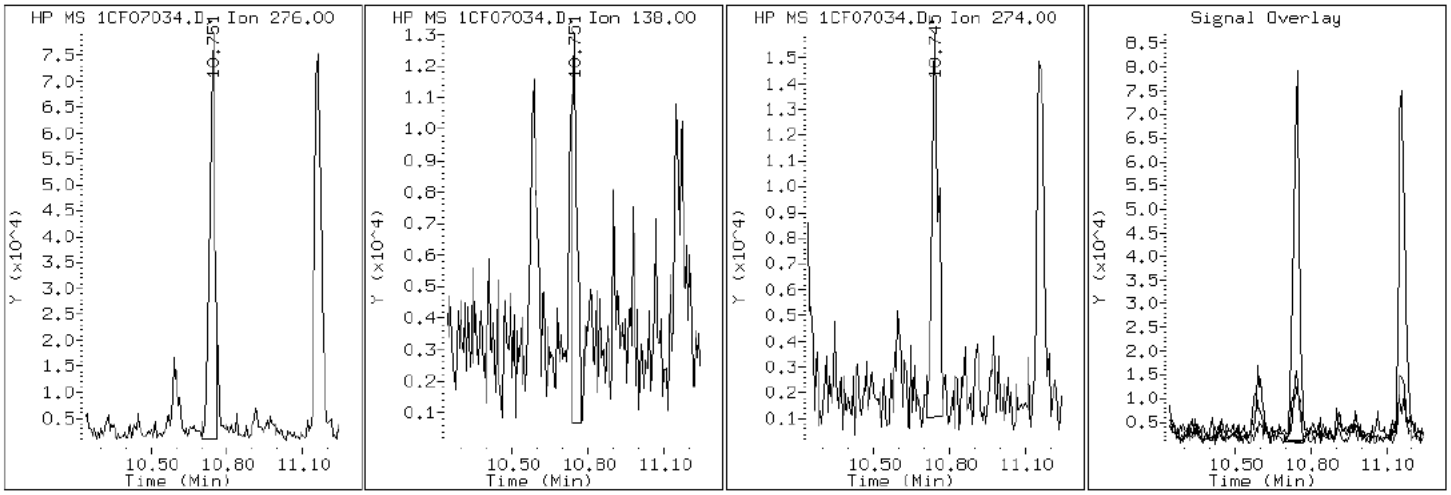
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

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



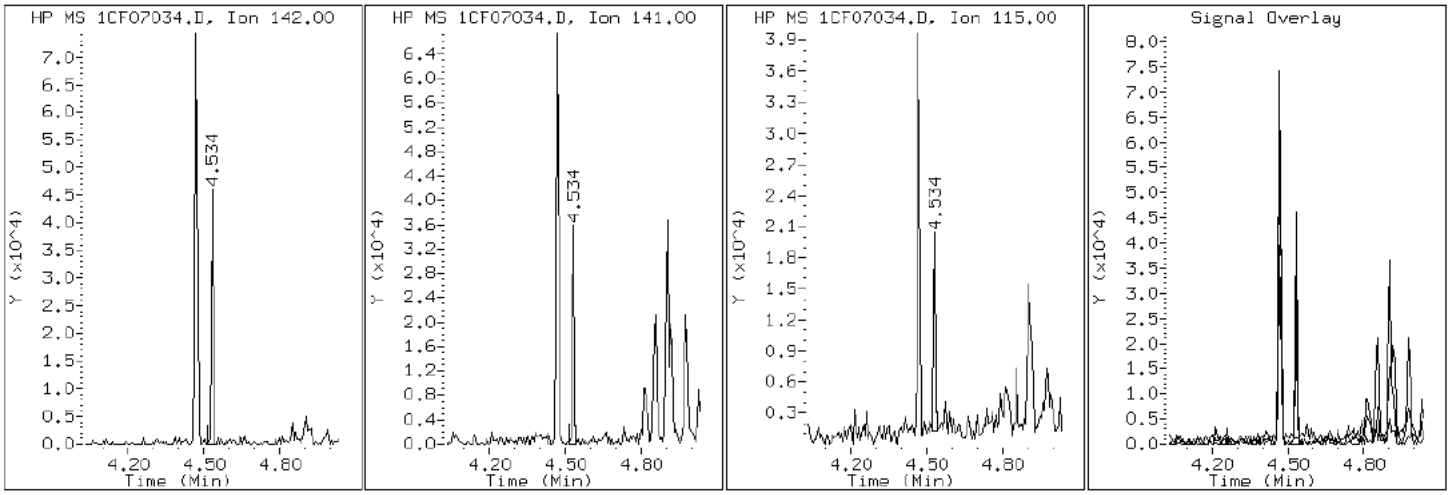
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

4 1-Methylnaphthalene



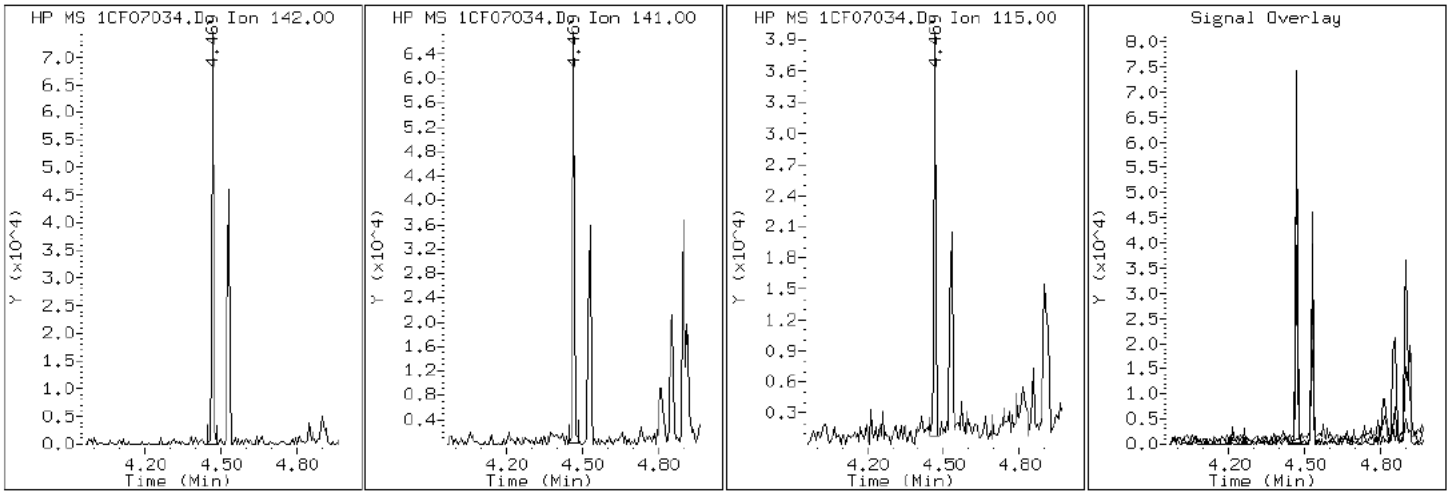
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

3 2-Methylnaphthalene



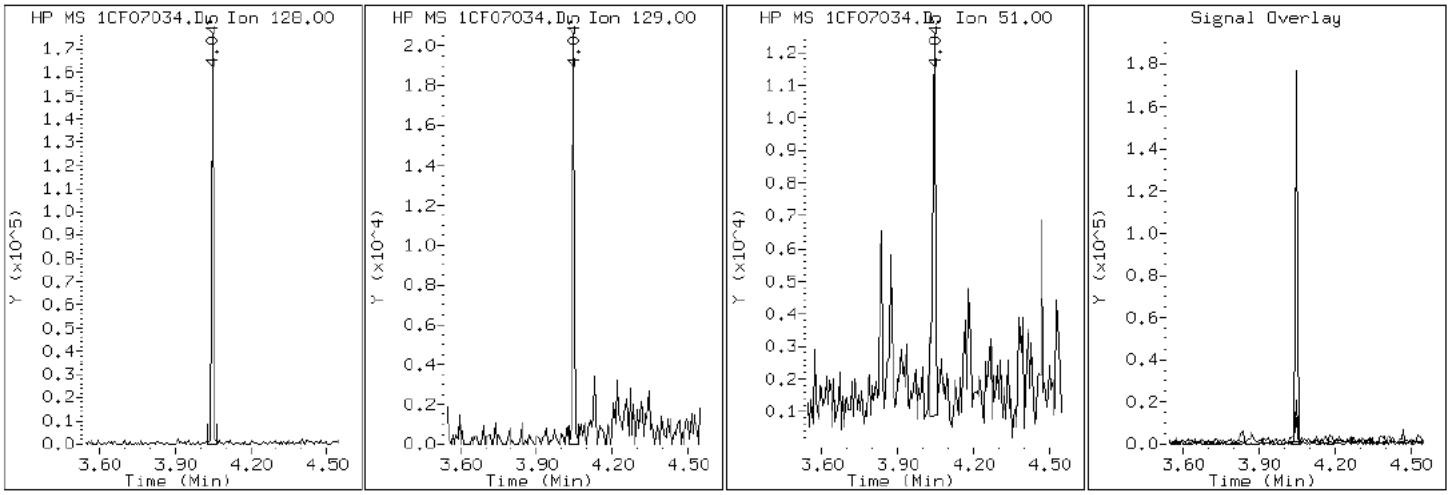
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

2 Naphthalene



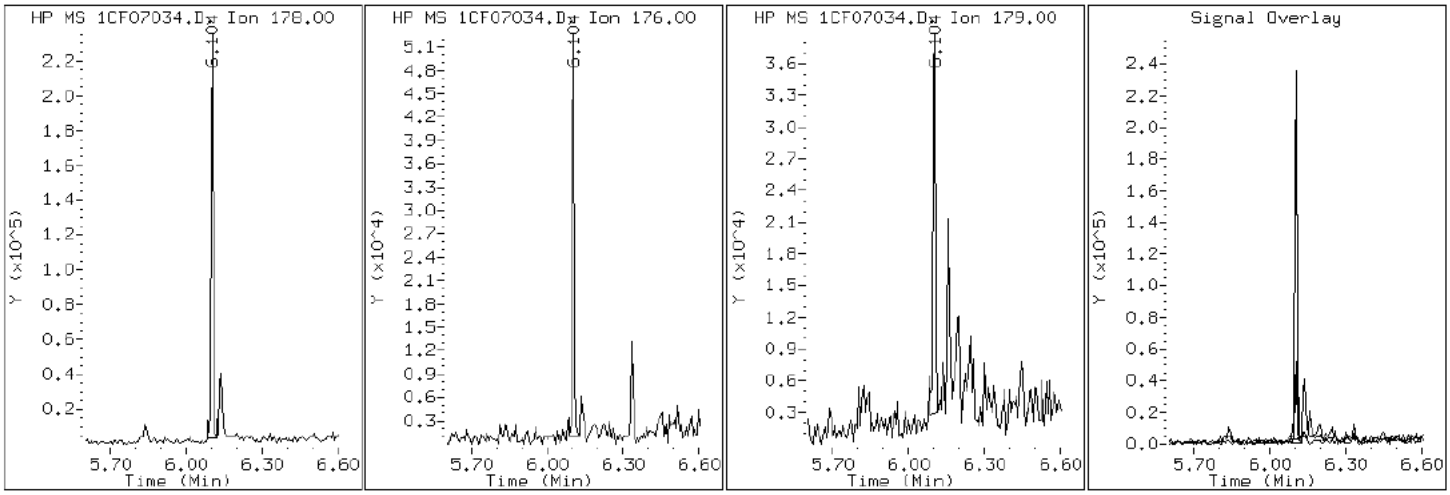
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

11 Phenanthrene



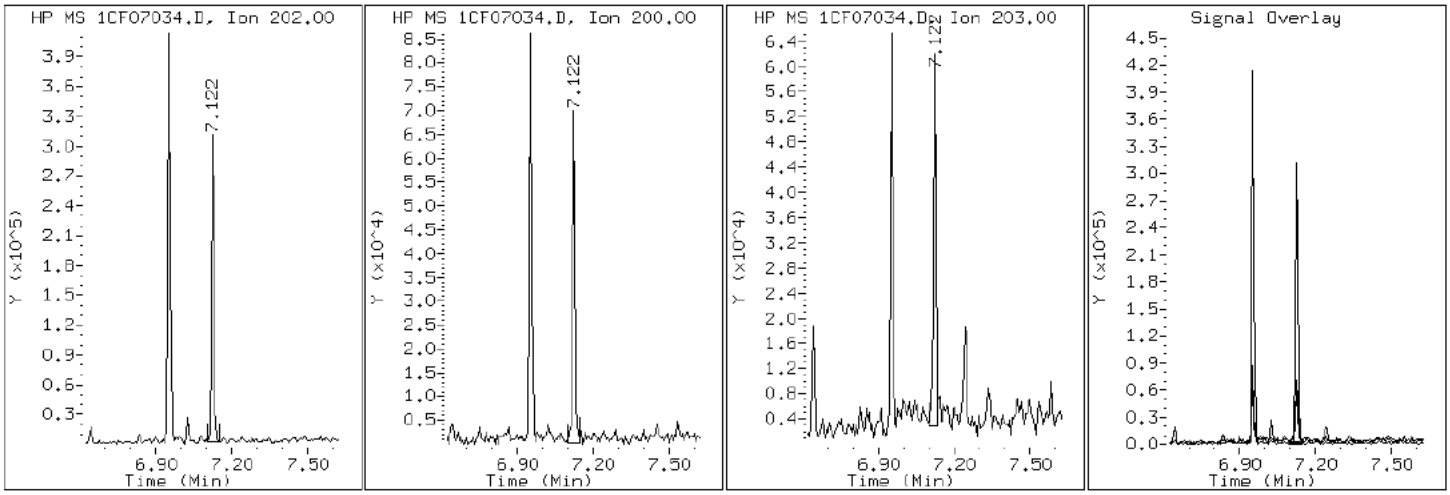
Data File: 1CF07034.D

Date: 07-JUN-2013 21:06

Client ID: HP0193B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07034.D
Inj. Date and Time: 07-JUN-2013 21:06
Instrument ID: BSMC5973.i
Client ID: HP0193B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

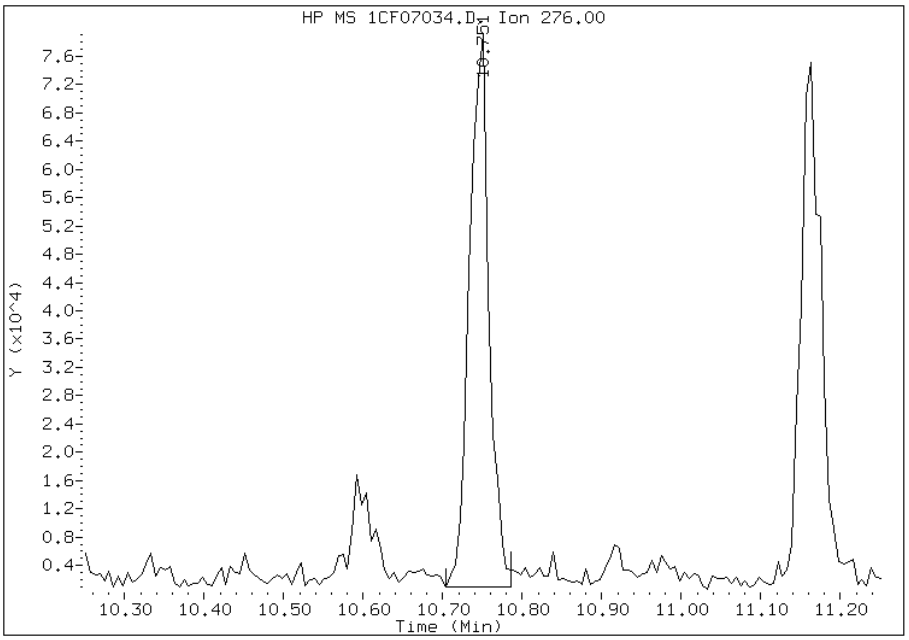
Processing Integration Results

RT: 10.75

Response: 134681

Amount: 2

Conc: 149



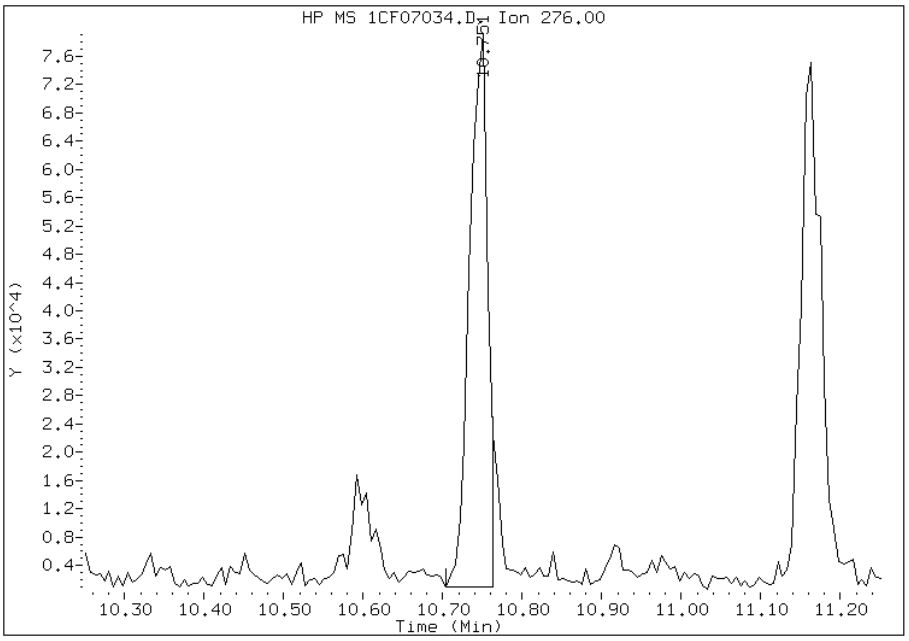
Manual Integration Results

RT: 10.75

Response: 125362

Amount: 2

Conc: 140



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0299A-CS-SP | Lab Sample ID: 680-90852-39

Matrix: Solid | Lab File ID: 1CF07035.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 15:27

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

Sample wt/vol: 14.99(g) | Date Analyzed: 06/07/2013 21:24

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

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

% Moisture: 27.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	J	140	28
208-96-8	Acenaphthylene	19	J	55	6.9
120-12-7	Anthracene	140		12	5.8
56-55-3	Benzo[a]anthracene	360		11	5.4
50-32-8	Benzo[a]pyrene	350		14	7.2
205-99-2	Benzo[b]fluoranthene	620		17	8.4
191-24-2	Benzo[g,h,i]perylene	260		28	6.1
207-08-9	Benzo[k]fluoranthene	180		11	5.0
218-01-9	Chrysene	380		12	6.2
53-70-3	Dibenz(a,h)anthracene	59		28	5.7
206-44-0	Fluoranthene	770		28	5.5
86-73-7	Fluorene	87		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	200		28	9.8
90-12-0	1-Methylnaphthalene	140		55	6.1
91-57-6	2-Methylnaphthalene	190		55	9.8
91-20-3	Naphthalene	210		55	6.1
85-01-8	Phenanthrene	630		11	5.4
129-00-0	Pyrene	600		28	5.1

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\1CF07035.D
Lab Smp Id: 680-90852-A-39-A Client Smp ID: HP0299A-CS-SP
Inj Date : 07-JUN-2013 21:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-39-a
Misc Info : 680-90852-A-39-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: 35
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	27.733	% 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)	2027817	40.0000	
* 6 Acenaphthene-d10	164	5.121	5.116	(1.000)	1495964	40.0000	
* 10 Phenanthrene-d10	188	6.086	6.086	(1.000)	2872812	40.0000	
$ 14 o-Terphenyl	230	6.333	6.333	(1.041)	274435	6.13248	566.0997
* 18 Chrysene-d12	240	8.050	8.051	(1.000)	3351644	40.0000	
* 23 Perylene-d12	264	9.374	9.374	(1.000)	3077780	40.0000	
2 Naphthalene	128	4.045	4.045	(1.003)	130983	2.28892	211.2944
3 2-Methylnaphthalene	142	4.468	4.468	(1.108)	66634	2.09931	193.7914
4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	47944	1.53525	141.7214
5 Acenaphthylene	152	5.033	5.033	(0.983)	11651	0.20316	18.7540
7 Acenaphthene	154	5.139	5.139	(1.003)	39734	1.10485	101.9906
9 Fluorene	166	5.462	5.463	(1.067)	43472	0.94736	87.4522
11 Phenanthrene	178	6.104	6.104	(1.003)	580155	6.83541	630.9884
12 Anthracene	178	6.139	6.139	(1.009)	116508	1.48170	136.7782

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)	68279	1.04456	96.4253
15 Fluoranthene	202	6.951	6.951	(1.142)	723728	8.34232	770.0941
16 Pyrene	202	7.121	7.121	(0.885)	586344	6.47859	598.0504
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	361270	3.90901	360.8474
19 Chrysene	228	8.068	8.068	(1.002)	383394	4.12030	380.3517
20 Benzo(b)fluoranthene	252	8.974	8.968	(0.957)	505246	6.68142	616.7741(M)
21 Benzo(k)fluoranthene	252	8.997	8.998	(0.960)	165566	1.96031	180.9600(QM)
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	285754	3.79577	350.3944
24 Indeno(1,2,3-cd)pyrene	276	10.744	10.745	(1.146)	167939	2.19859	202.9554(M)
25 Dibenzo(a,h)anthracene	278	10.762	10.762	(1.148)	42274	0.64352	59.4040
26 Benzo(g,h,i)perylene	276	11.156	11.162	(1.190)	200214	2.80013	258.4852

QC Flag Legend

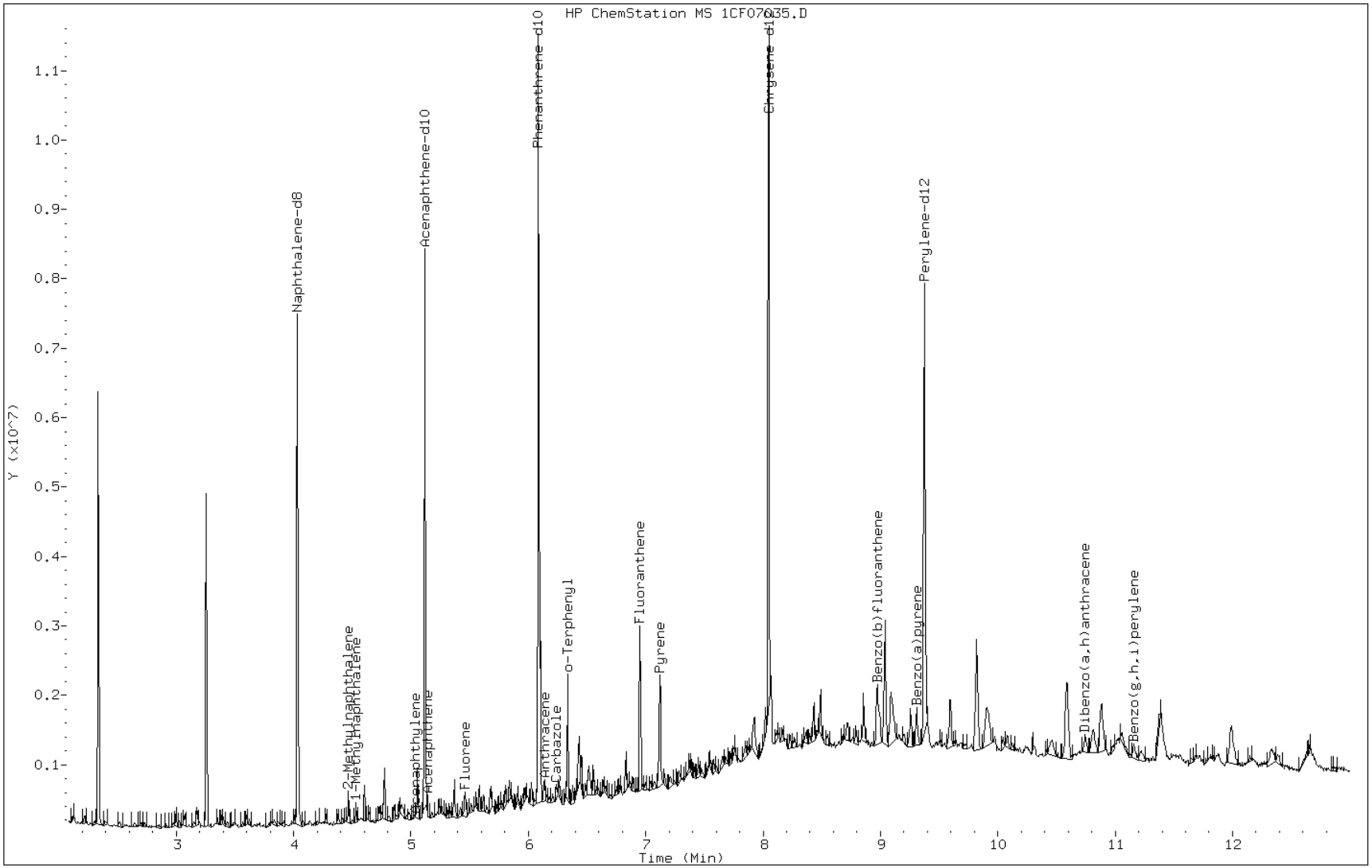
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC



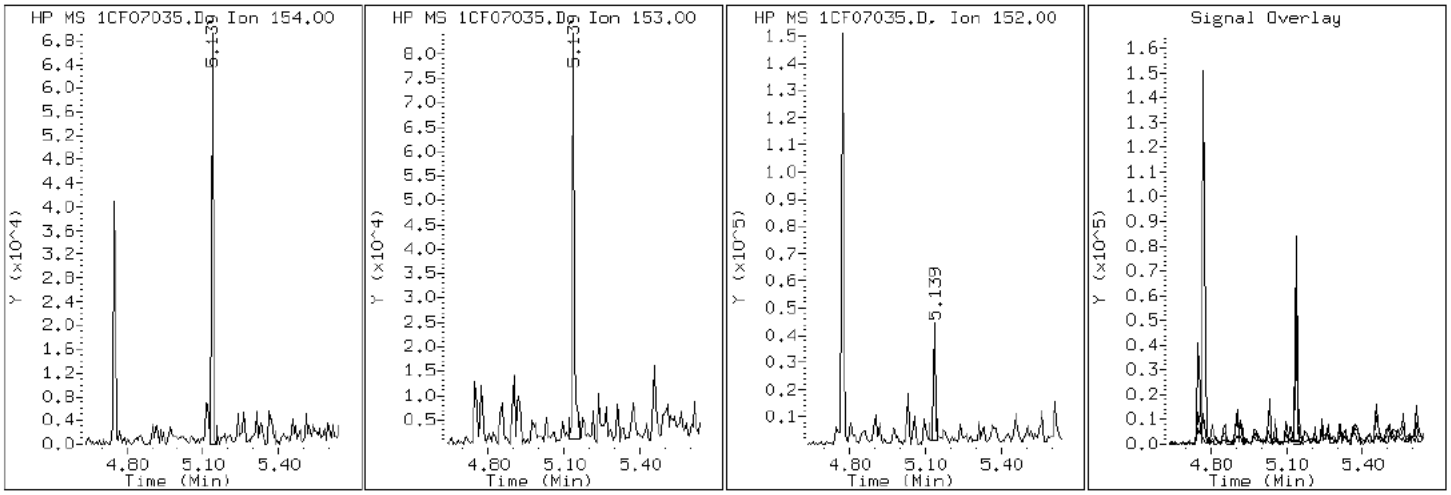
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

7 Acenaphthene



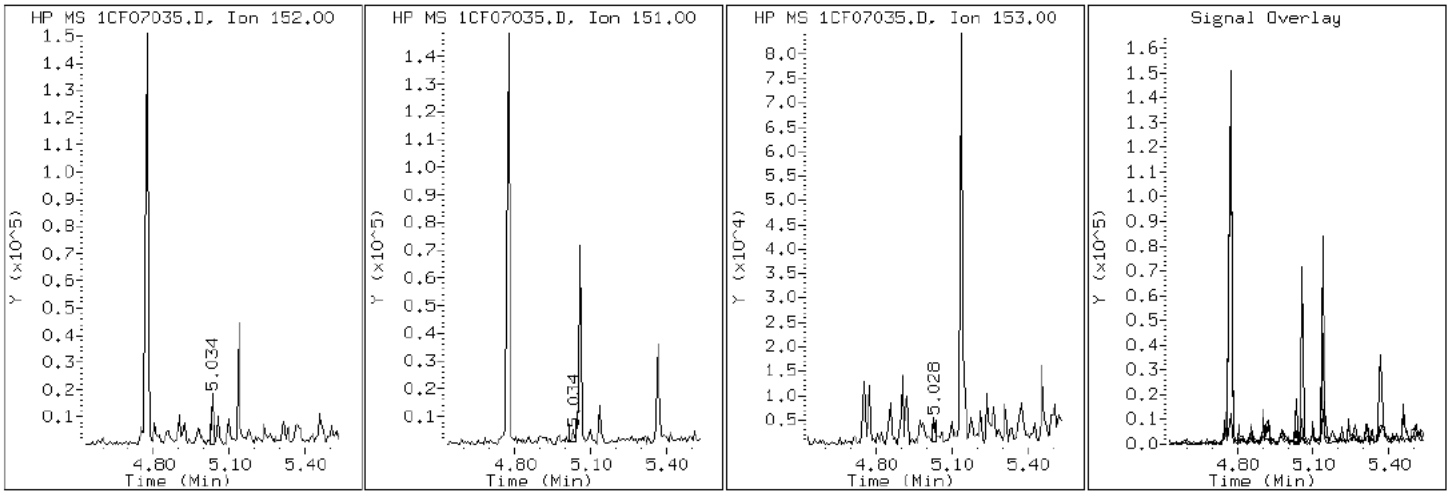
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

5 Acenaphthylene



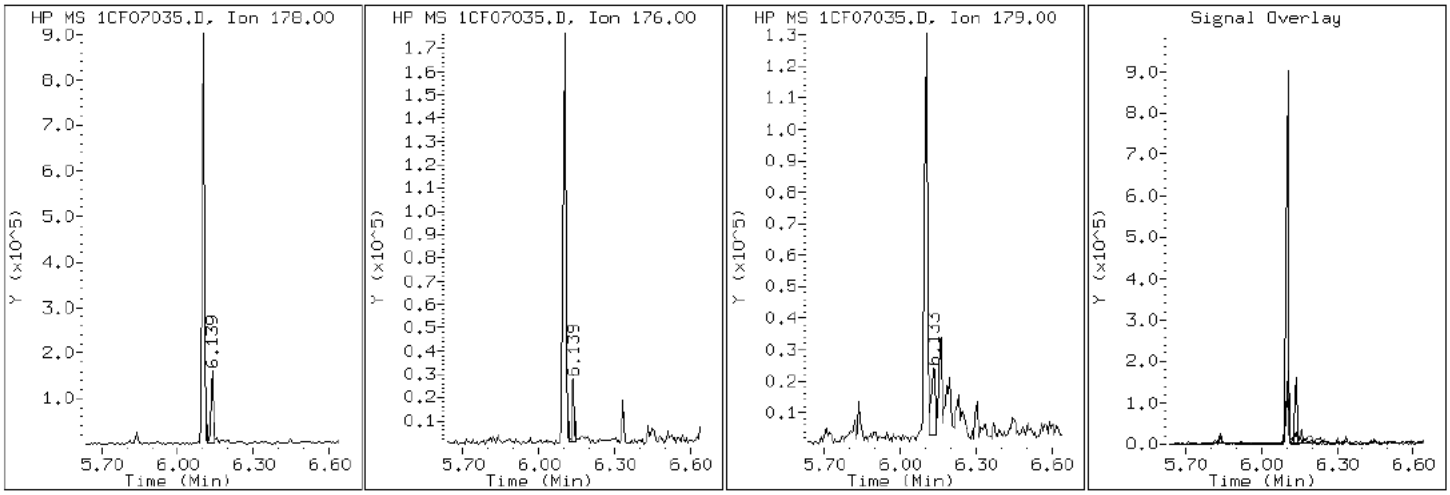
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

12 Anthracene



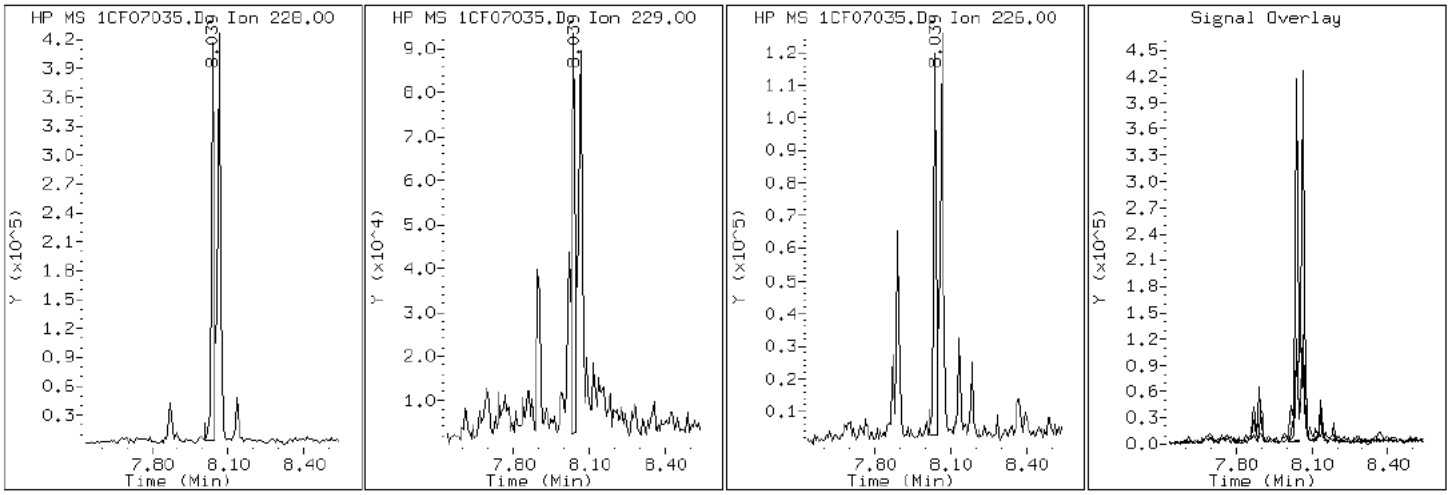
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

17 Benzo(a)anthracene



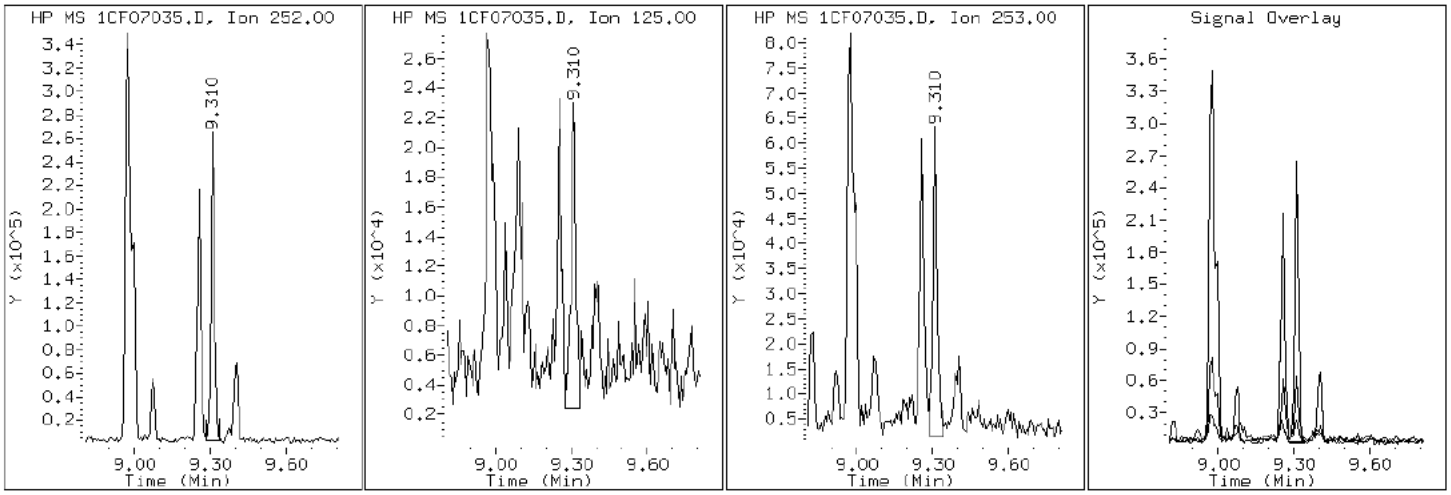
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

22 Benzo(a)pyrene



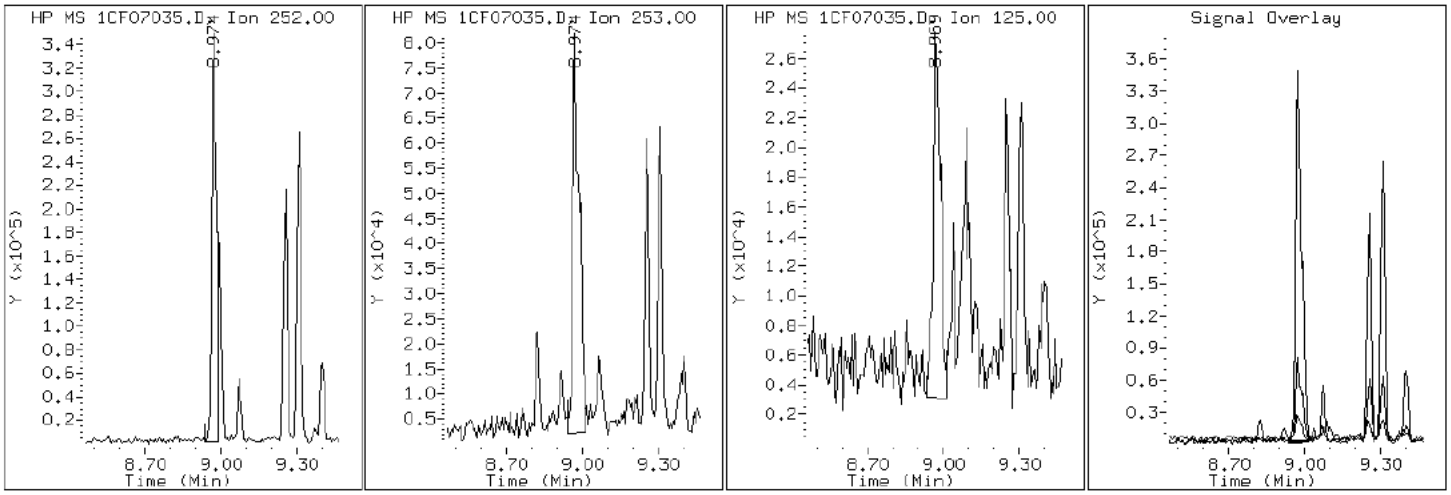
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

20 Benzo(b)fluoranthene



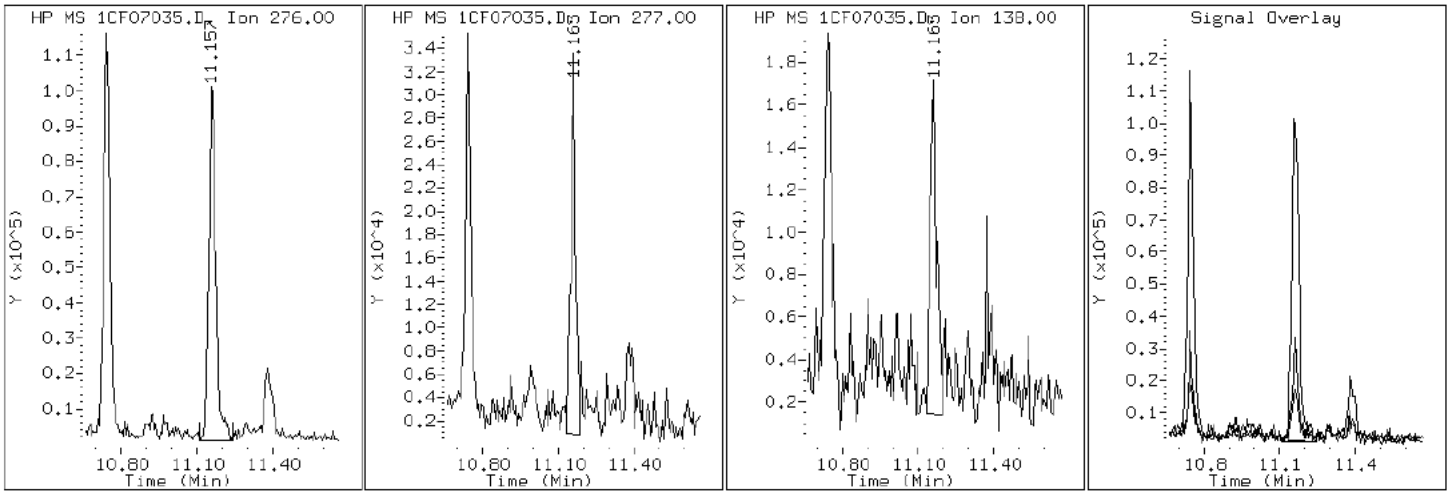
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

26 Benzo(g,h,i)perylene



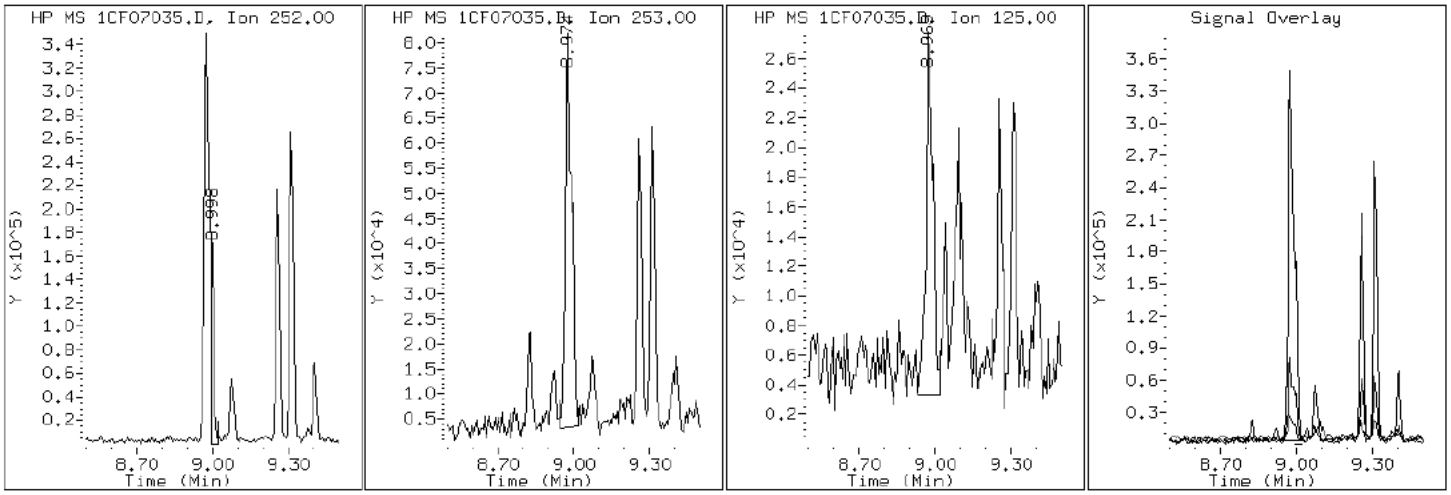
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

21 Benzo(k)fluoranthene



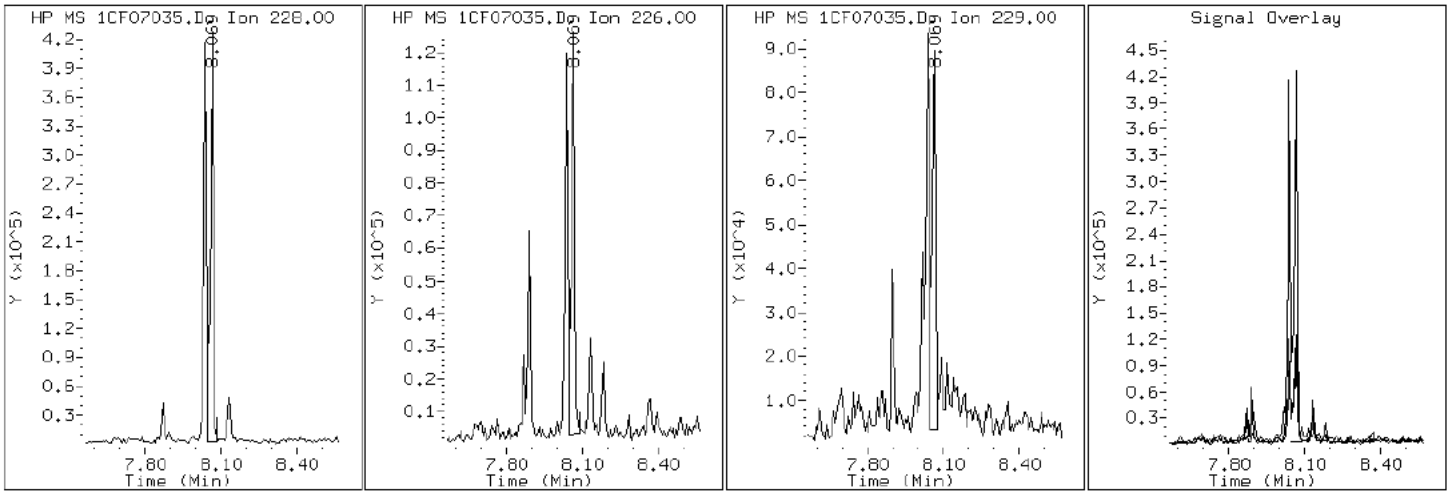
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

19 Chrysene



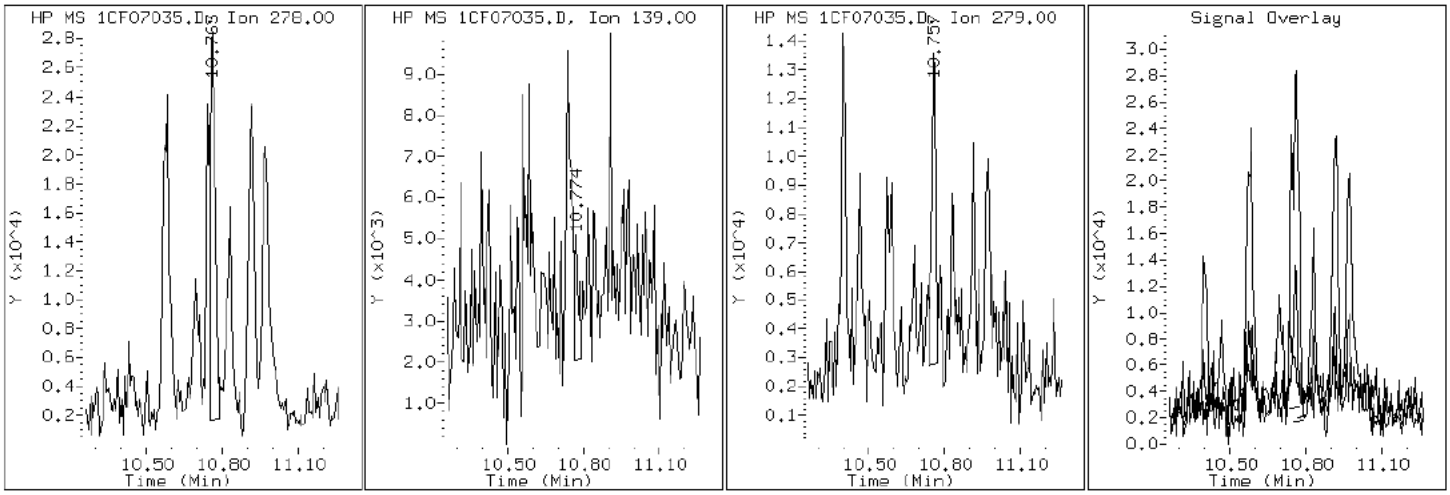
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

25 Dibenzo(a,h)anthracene



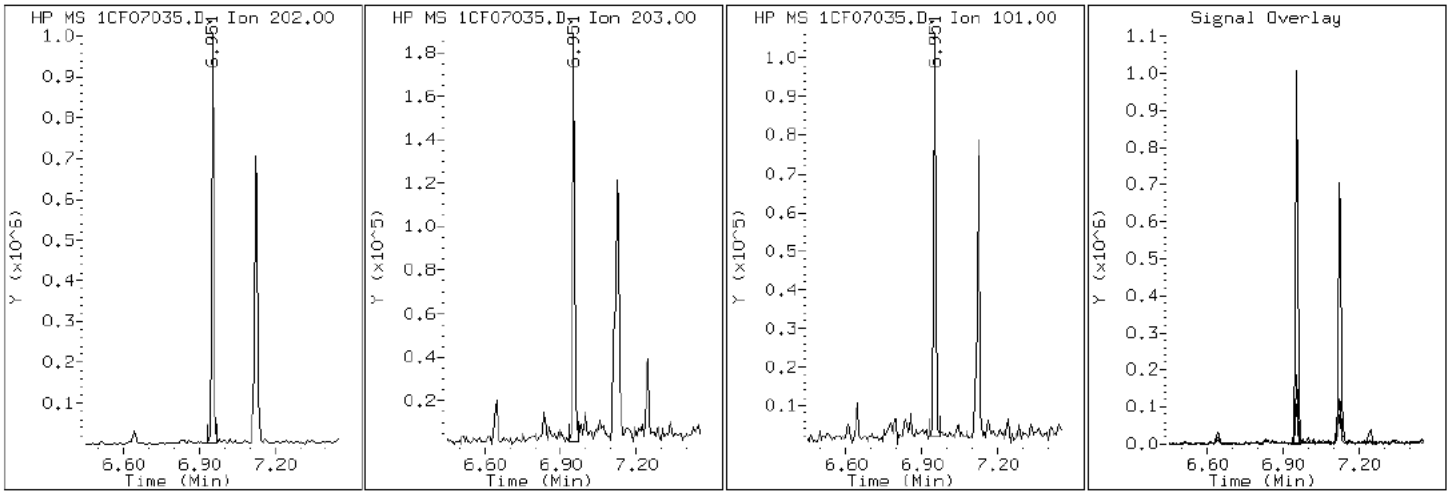
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

15 Fluoranthene



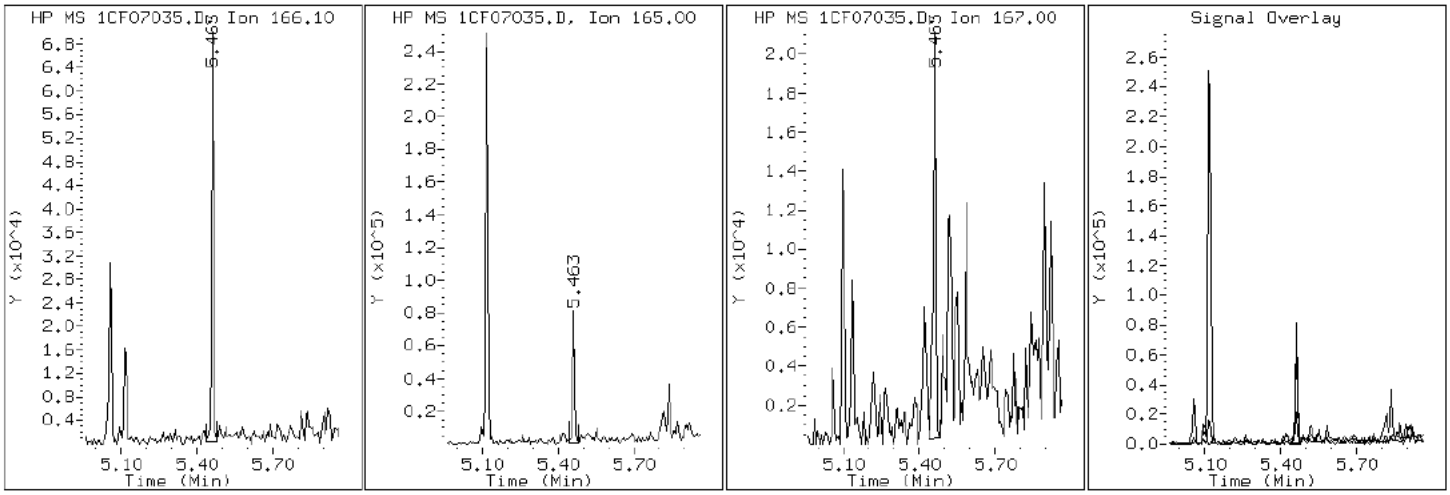
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

9 Fluorene



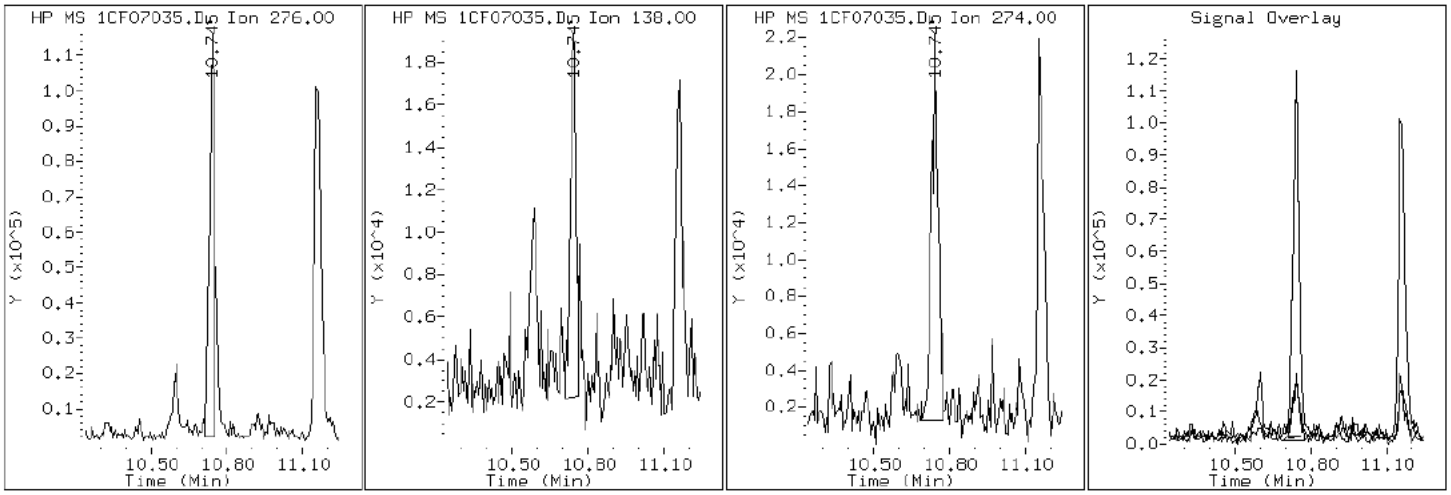
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

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



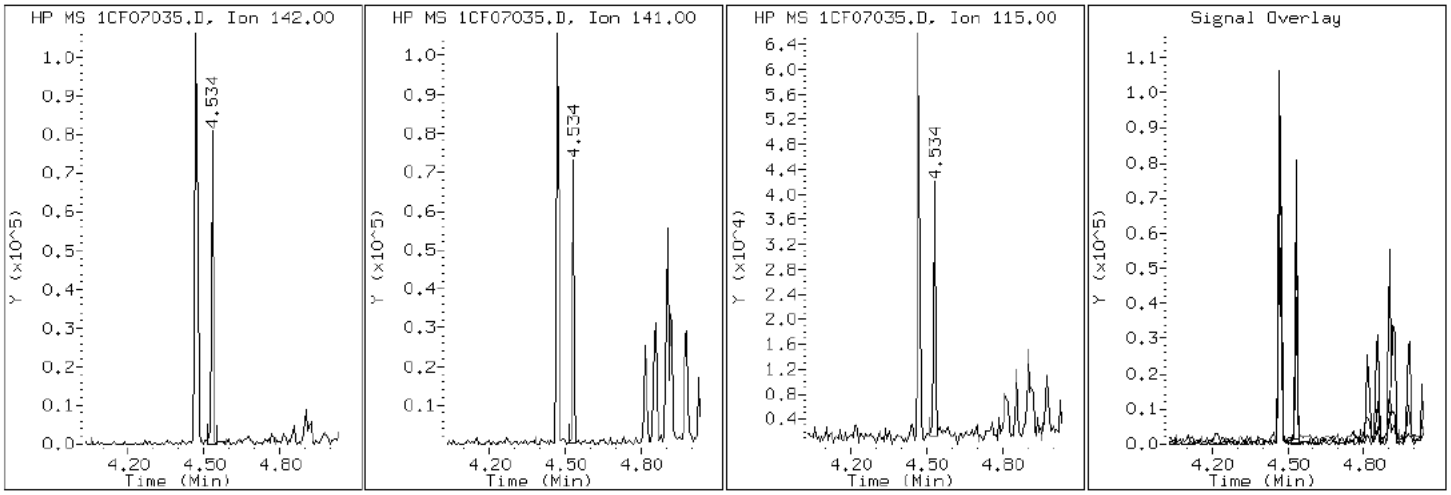
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

4 1-Methylnaphthalene



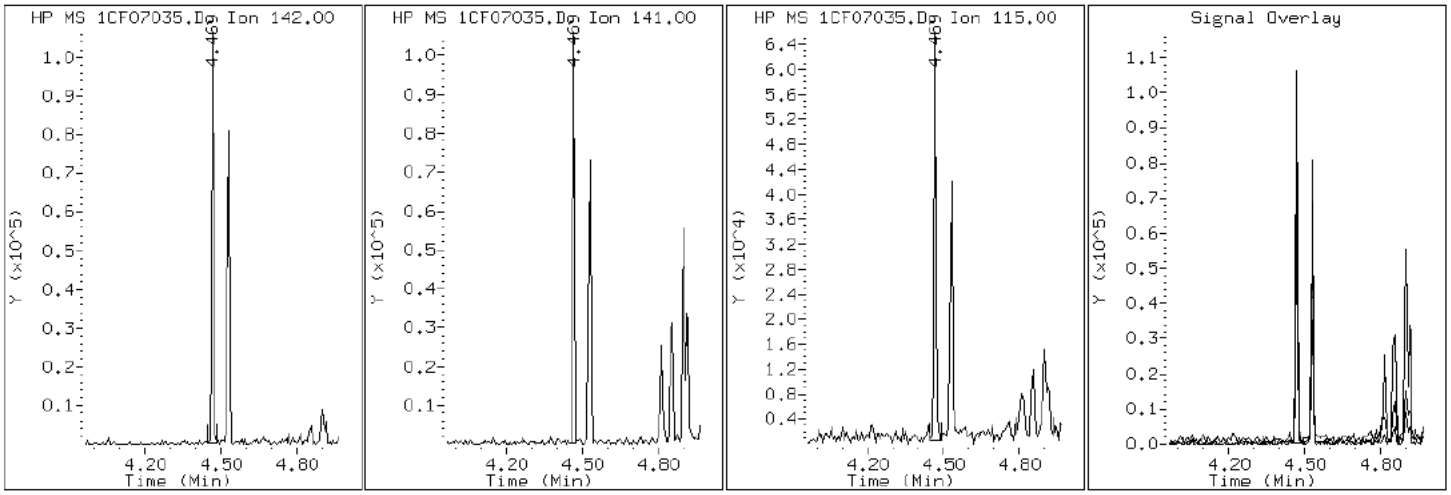
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

3 2-Methylnaphthalene



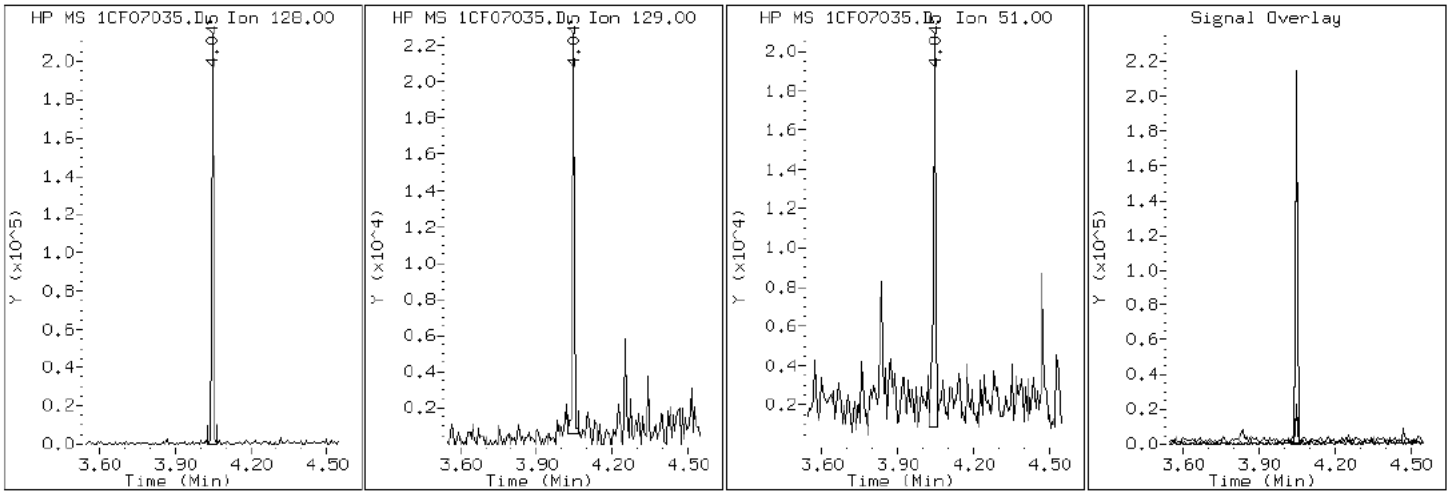
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

2 Naphthalene



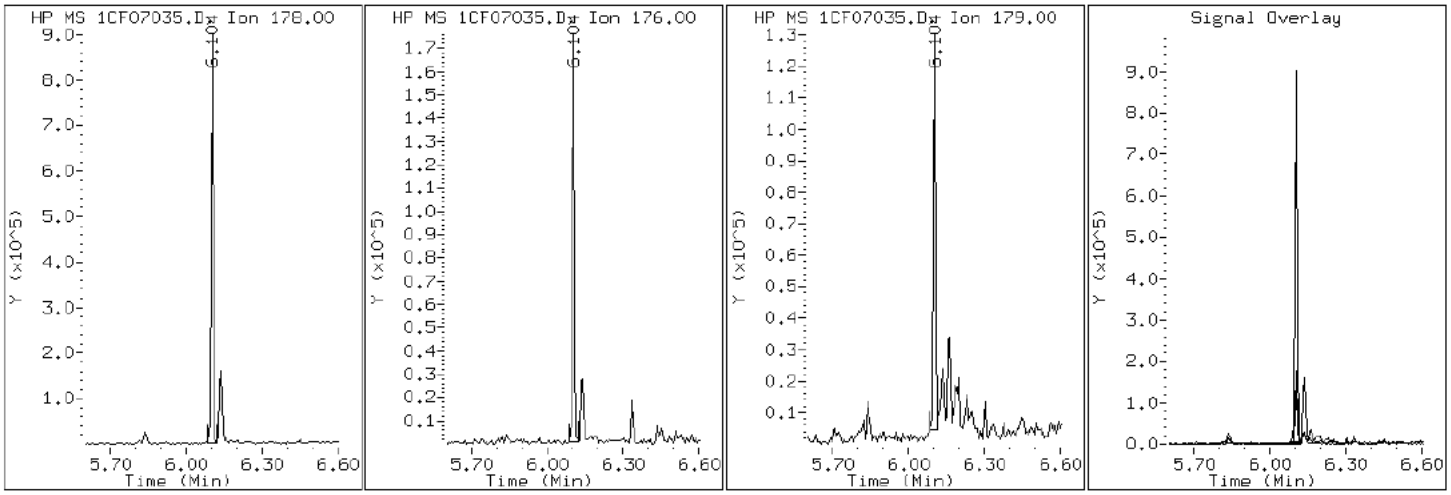
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

11 Phenanthrene



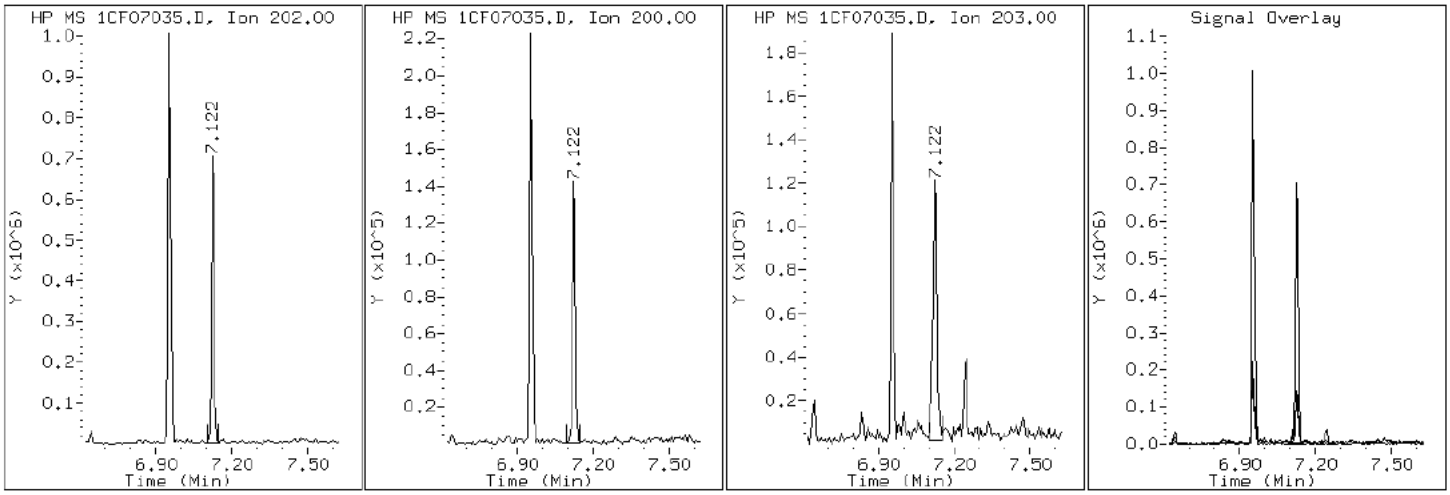
Data File: 1CF07035.D

Date: 07-JUN-2013 21:24

Client ID: HP0299A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-39-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07035.D
Inj. Date and Time: 07-JUN-2013 21:24
Instrument ID: BSMC5973.i
Client ID: HP0299A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/09/2013

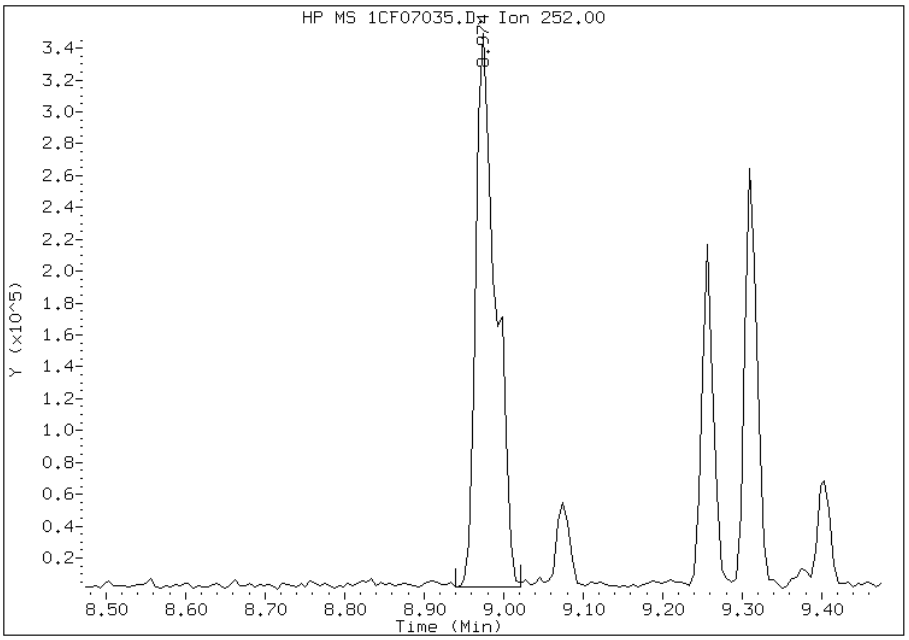
Processing Integration Results

RT: 8.97

Response: 610878

Amount: 8

Conc: 746



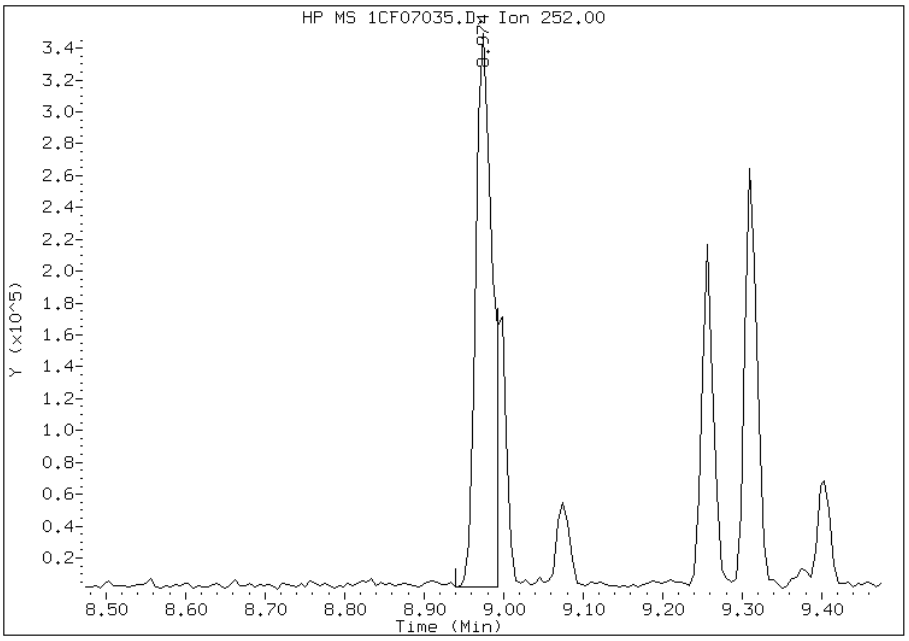
Manual Integration Results

RT: 8.97

Response: 505246

Amount: 7

Conc: 617



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF07035.D
Inj. Date and Time: 07-JUN-2013 21:24
Instrument ID: BSMC5973.i
Client ID: HP0299A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/09/2013

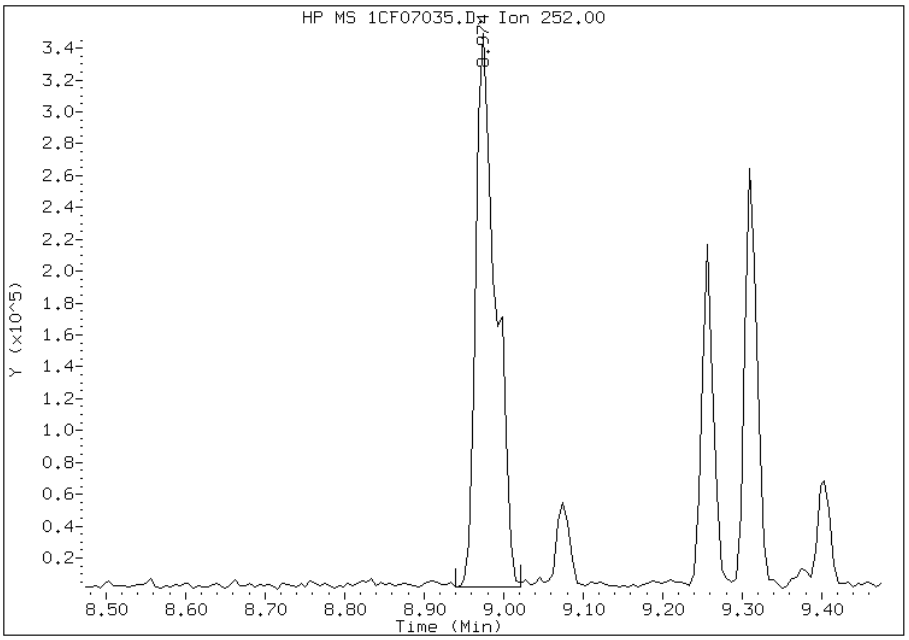
Processing Integration Results

RT: 8.97

Response: 610878

Amount: 7

Conc: 668



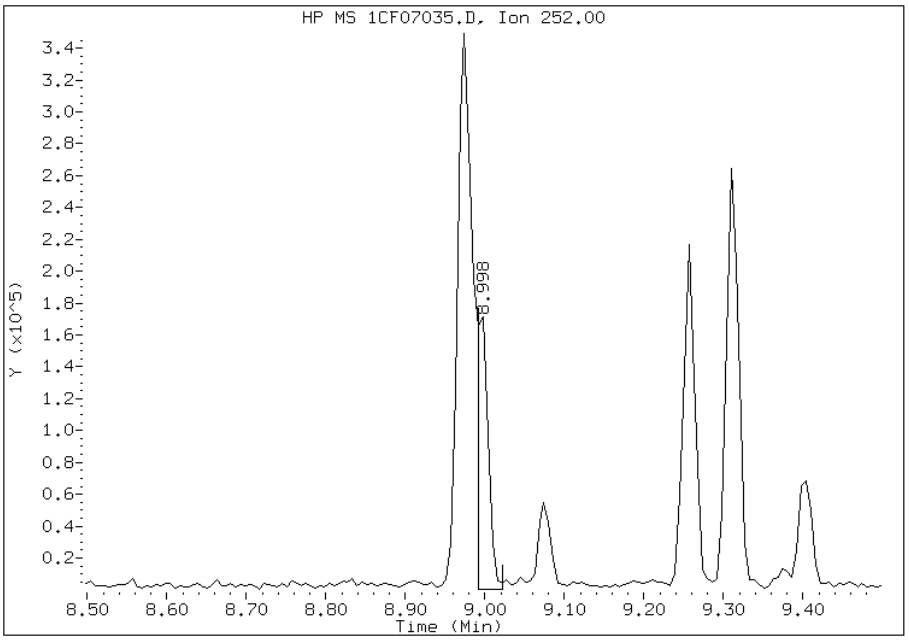
Manual Integration Results

RT: 9.00

Response: 165566

Amount: 2

Conc: 181



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07035.D
Inj. Date and Time: 07-JUN-2013 21:24
Instrument ID: BSMC5973.i
Client ID: HP0299A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

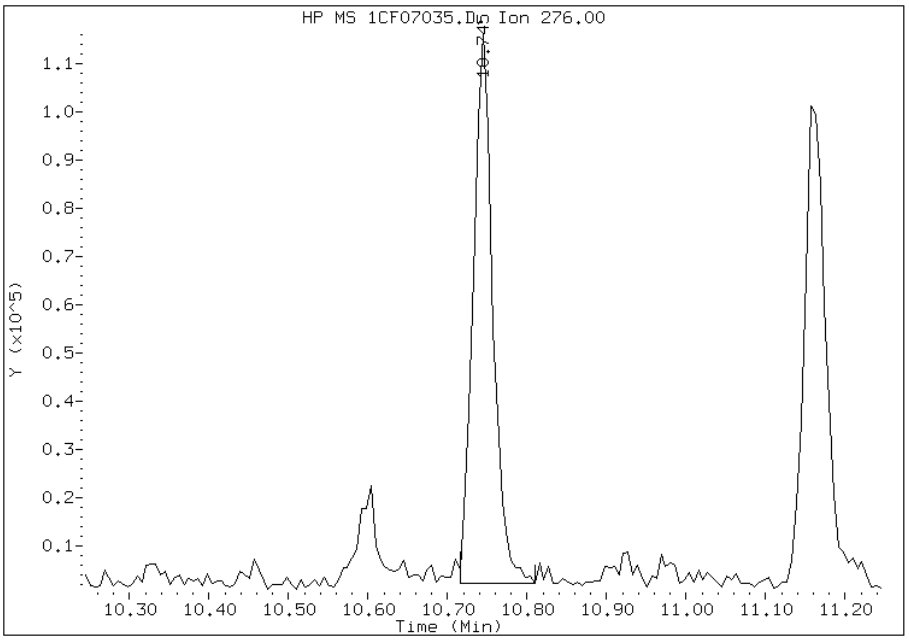
Processing Integration Results

RT: 10.74

Response: 194973

Amount: 3

Conc: 233



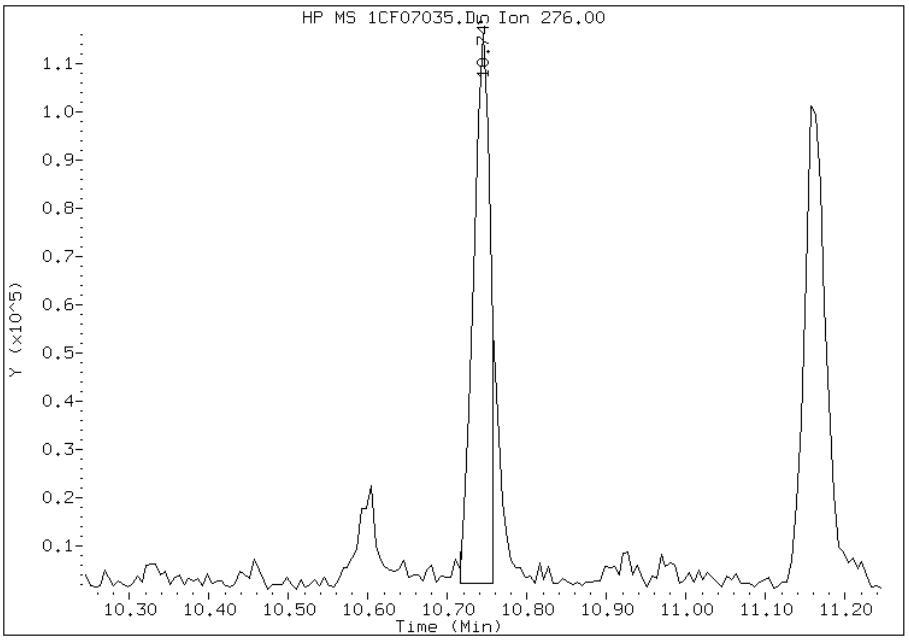
Manual Integration Results

RT: 10.74

Response: 167939

Amount: 2

Conc: 203



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: HP0299B-CS-SP | Lab Sample ID: 680-90852-40

Matrix: Solid | Lab File ID: 1CF07036.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 15:35

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

Sample wt/vol: 15.00(g) | Date Analyzed: 06/07/2013 21:42

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

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

% Moisture: 6.6 | 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	21
208-96-8	Acenaphthylene	6.1	J	43	5.4
120-12-7	Anthracene	13		9.0	4.5
56-55-3	Benzo[a]anthracene	60		8.6	4.2
50-32-8	Benzo[a]pyrene	75		11	5.6
205-99-2	Benzo[b]fluoranthene	120		13	6.5
191-24-2	Benzo[g,h,i]perylene	65		21	4.7
207-08-9	Benzo[k]fluoranthene	32		8.6	3.9
218-01-9	Chrysene	73		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	17	J	21	4.4
206-44-0	Fluoranthene	99		21	4.3
86-73-7	Fluorene	21	U	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	52		21	7.6
90-12-0	1-Methylnaphthalene	40	J	43	4.7
91-57-6	2-Methylnaphthalene	100		43	7.6
91-20-3	Naphthalene	62		43	4.7
85-01-8	Phenanthrene	71		8.6	4.2
129-00-0	Pyrene	83		21	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060713.b\1CF07036.D
Lab Smp Id: 680-90852-A-40-A Client Smp ID: HP0299B-CS-SP
Inj Date : 07-JUN-2013 21:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90852-a-40-a
Misc Info : 680-90852-A-40-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: 36
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	6.593	% 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)	2203753	40.0000	
* 6 Acenaphthene-d10	164	5.115	5.116	(1.000)	1666690	40.0000	
* 10 Phenanthrene-d10	188	6.086	6.086	(1.000)	3059334	40.0000	
$ 14 o-Terphenyl	230	6.333	6.333	(1.041)	311381	6.53384	466.3371
* 18 Chrysene-d12	240	8.045	8.051	(1.000)	3521721	40.0000	
* 23 Perylene-d12	264	9.374	9.374	(1.000)	3333148	40.0000	
2 Naphthalene	128	4.045	4.045	(1.003)	53932	0.86722	61.8955
3 2-Methylnaphthalene	142	4.468	4.468	(1.108)	49643	1.43915	102.7156
4 1-Methylnaphthalene	142	4.533	4.533	(1.124)	18962	0.55872	39.8772
5 Acenaphthylene	152	5.033	5.033	(0.984)	5470	0.08561	6.1102
9 Fluorene	166	5.462	5.463	(1.068)	2843	0.05561	3.9689(Q)
11 Phenanthrene	178	6.104	6.104	(1.003)	90397	1.00013	71.3815
12 Anthracene	178	6.139	6.139	(1.009)	14755	0.17621	12.5763
13 Carbazole	167	6.239	6.239	(1.025)	8882	0.22840	16.3018

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.951	6.951	(1.142)	127643	1.38162	98.6097
16 Pyrene	202	7.121	7.121	(0.885)	110782	1.16493	83.1441
17 Benzo(a)anthracene	228	8.039	8.039	(0.999)	81552	0.83979	59.9381
19 Chrysene	228	8.068	8.068	(1.003)	100473	1.02763	73.3443
20 Benzo(b)fluoranthene	252	8.974	8.968	(0.957)	136828	1.67080	119.2491
21 Benzo(k)fluoranthene	252	8.998	8.998	(0.960)	41513	0.45386	32.3931(Q)
22 Benzo(a)pyrene	252	9.309	9.309	(0.993)	79466	1.04959	74.9122
24 Indeno(1,2,3-cd)pyrene	276	10.745	10.745	(1.146)	50542	0.72539	51.7727(M)
25 Dibenzo(a,h)anthracene	278	10.756	10.762	(1.147)	17298	0.24314	17.3538(M)
26 Benzo(g,h,i)perylene	276	11.162	11.162	(1.191)	70097	0.90525	64.6097

QC Flag Legend

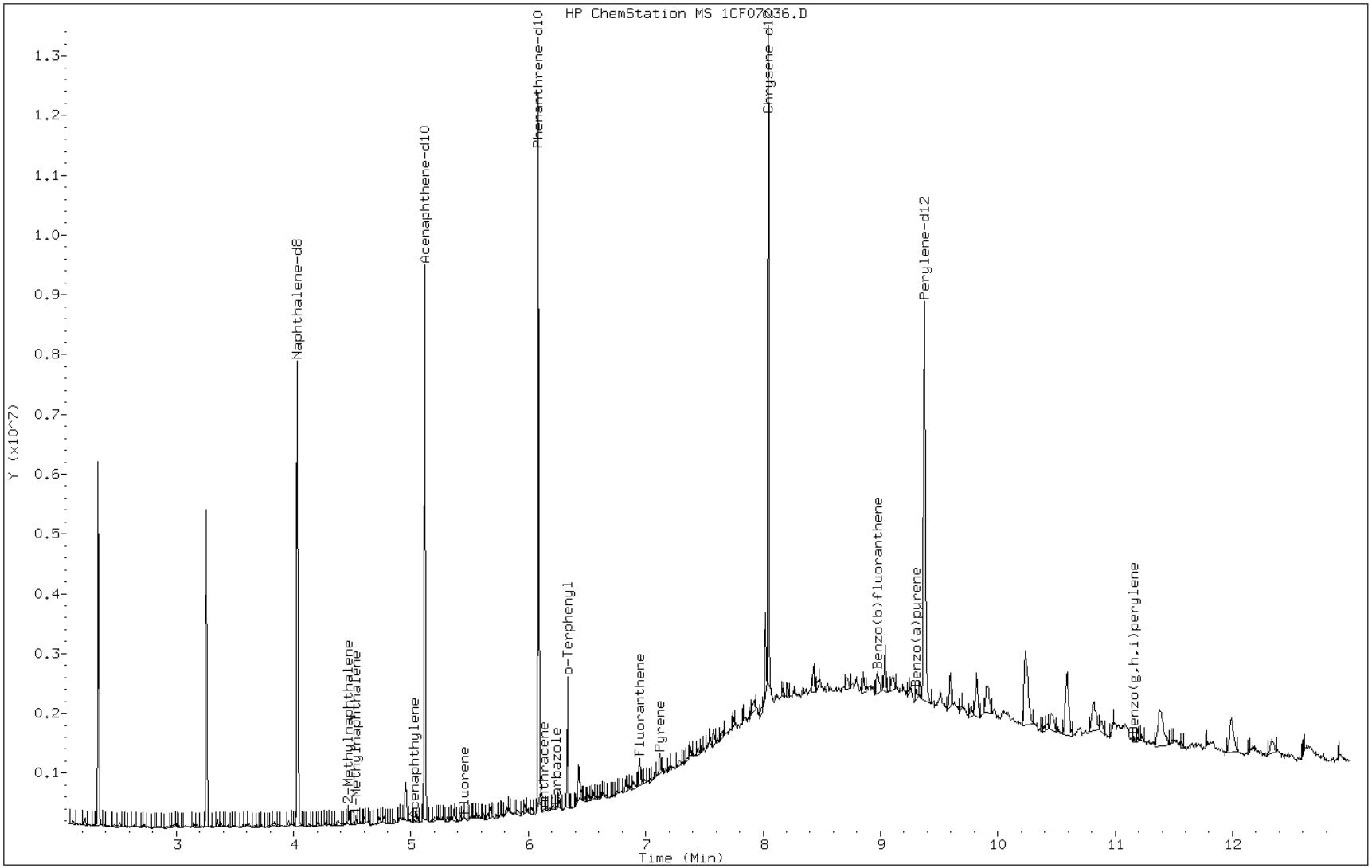
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC



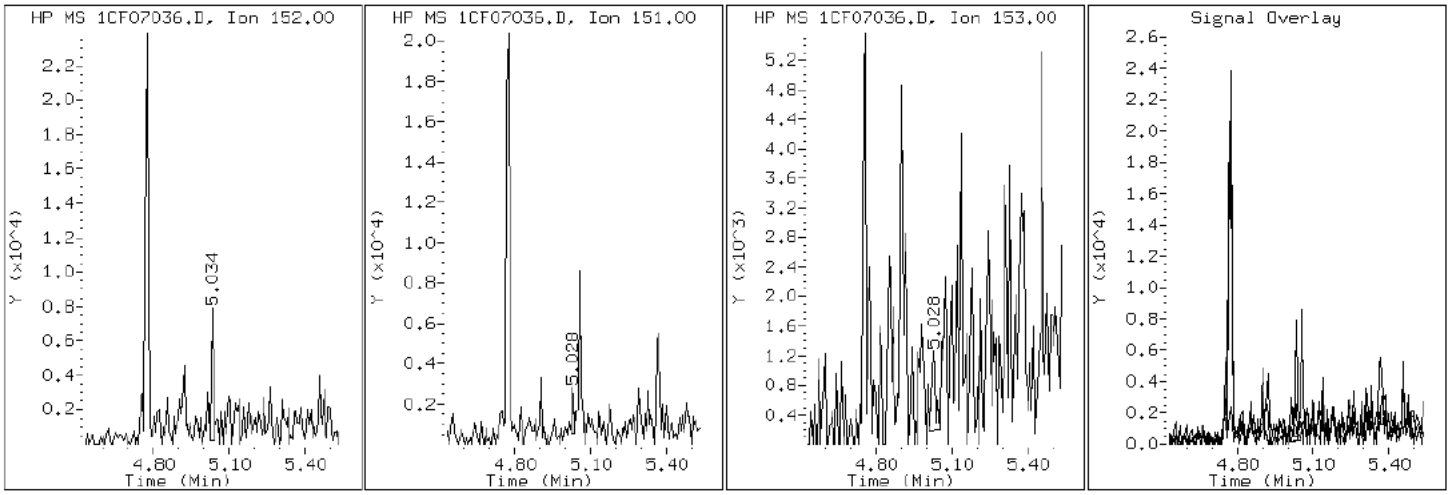
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

5 Acenaphthylene



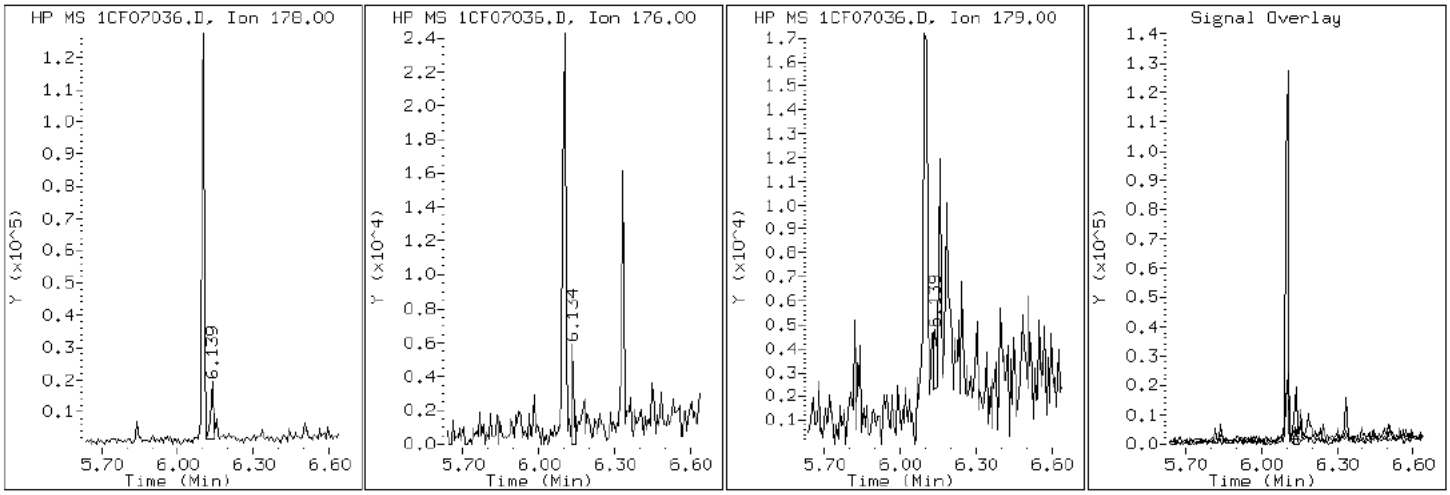
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

12 Anthracene



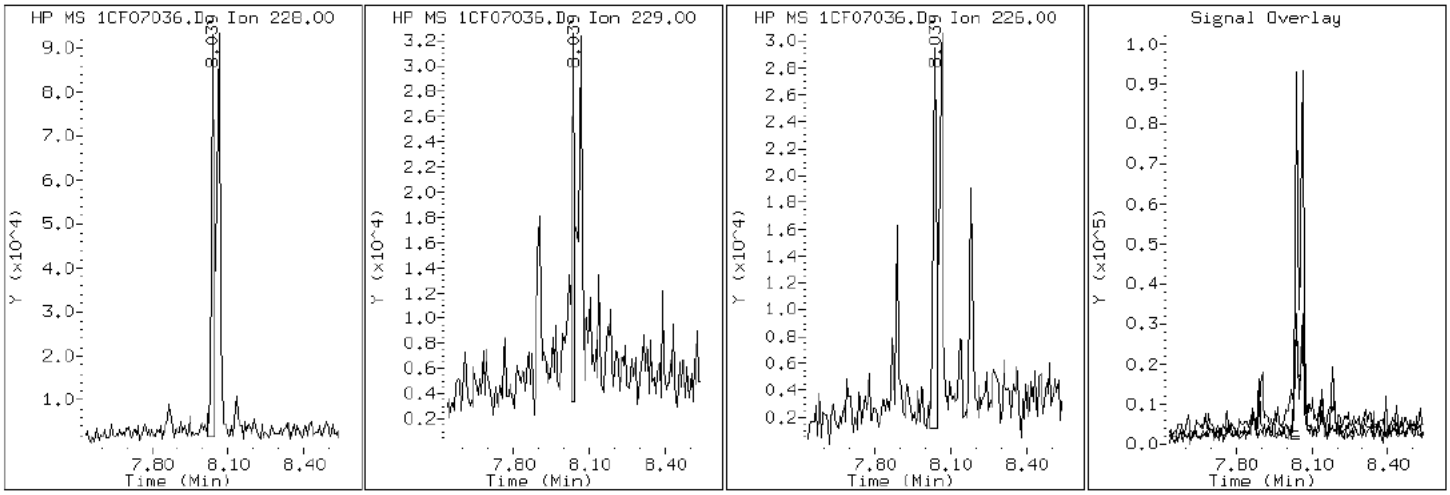
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

17 Benzo(a)anthracene



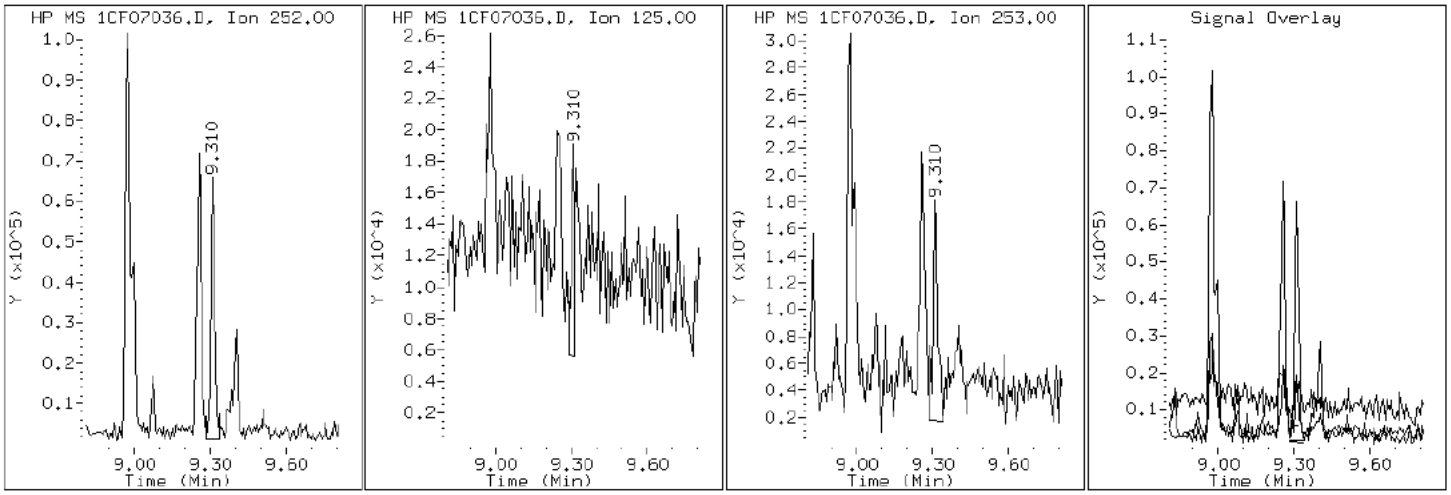
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

22 Benzo(a)pyrene



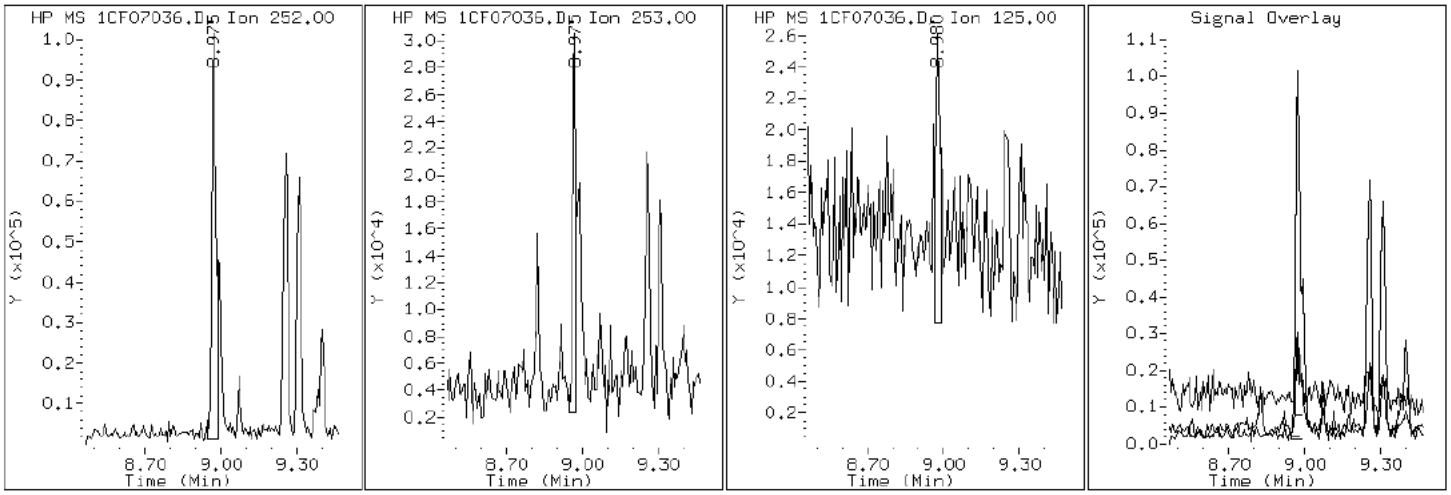
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

20 Benzo(b)fluoranthene



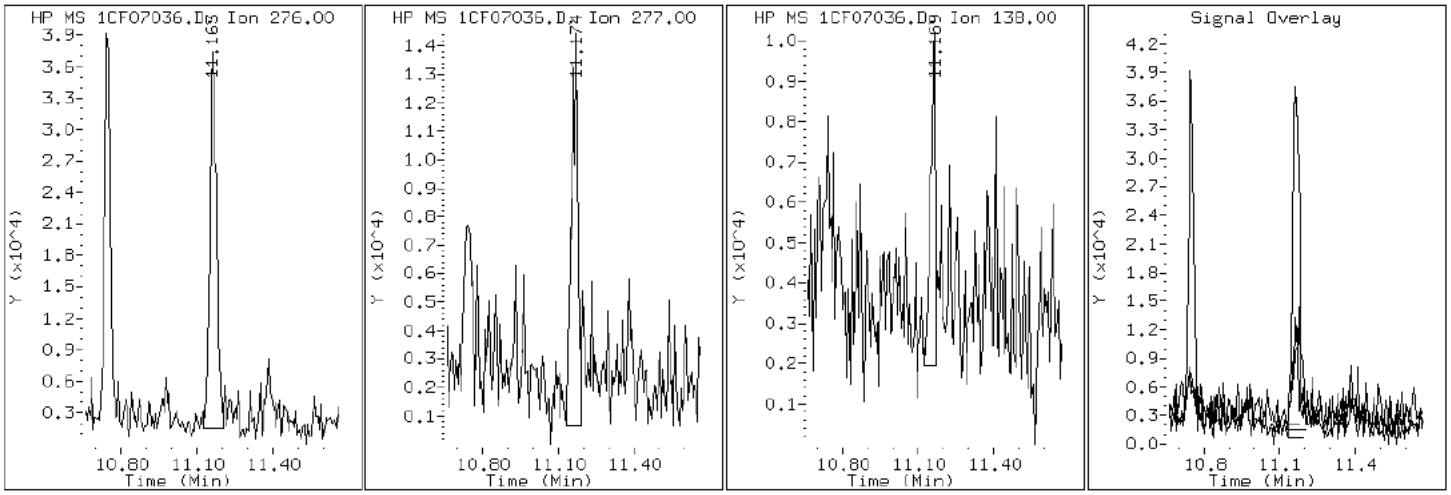
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

26 Benzo(g,h,i)perylene



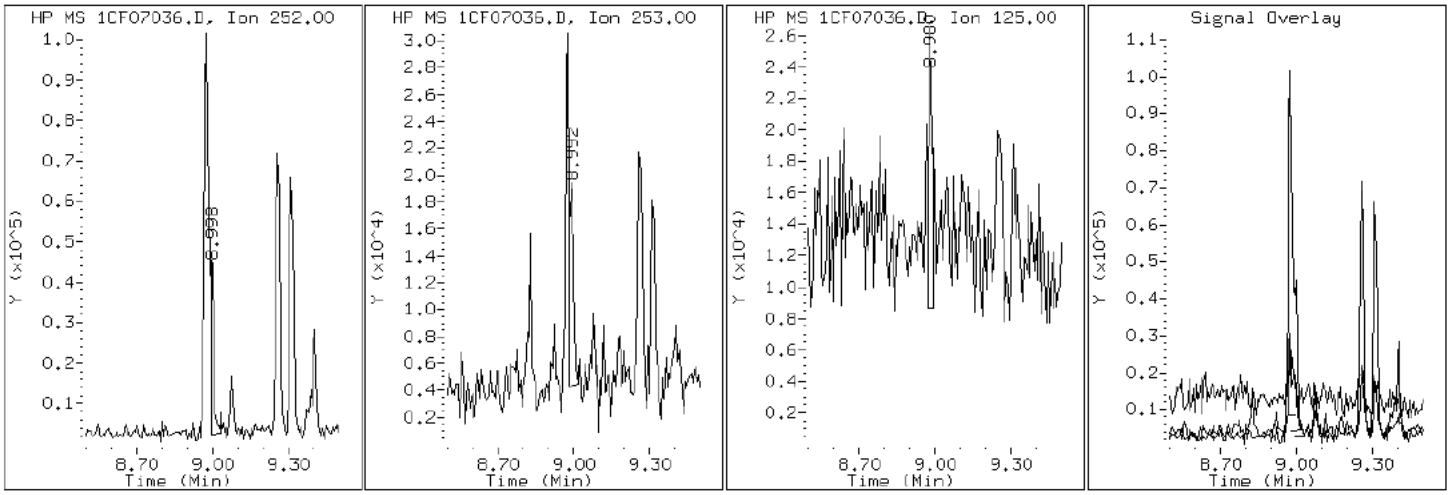
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

21 Benzo(k)fluoranthene



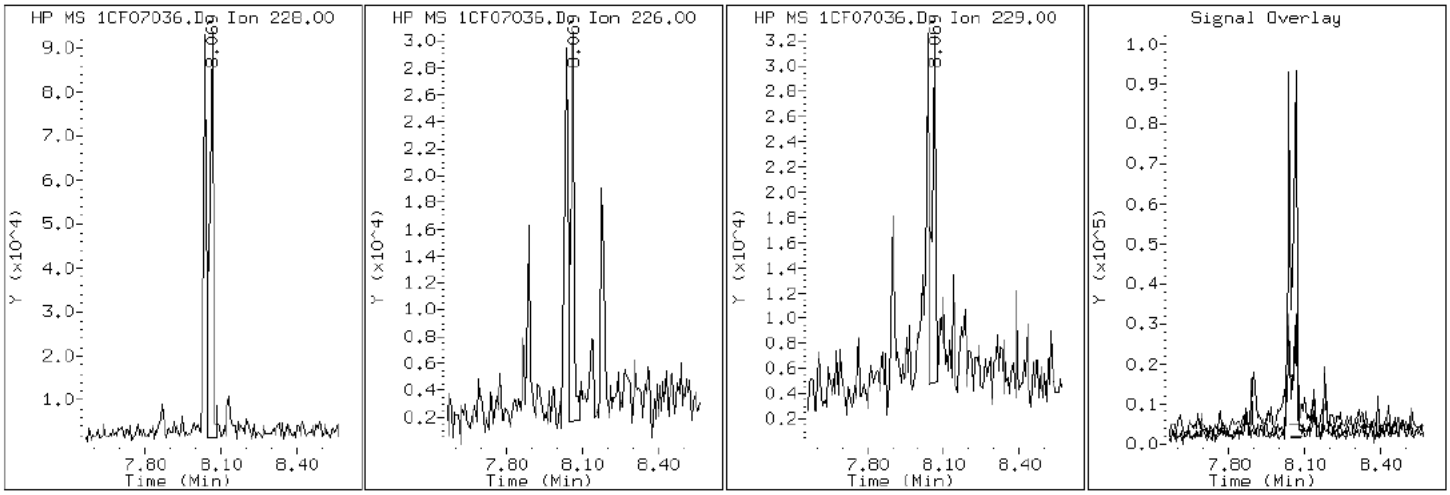
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

19 Chrysene



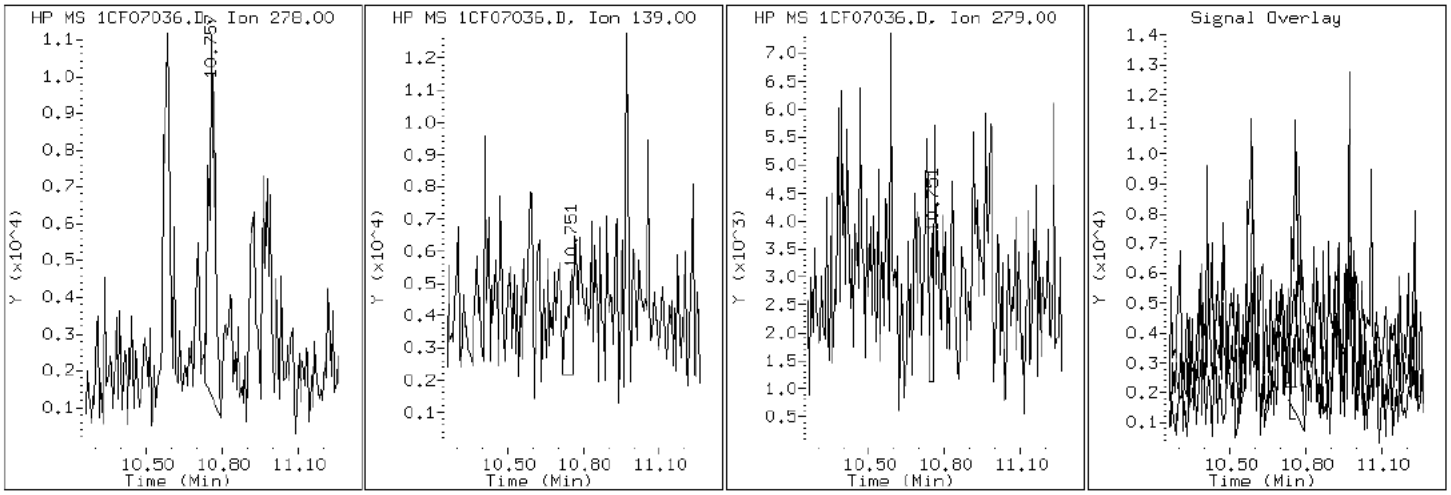
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

25 Dibenzo(a,h)anthracene



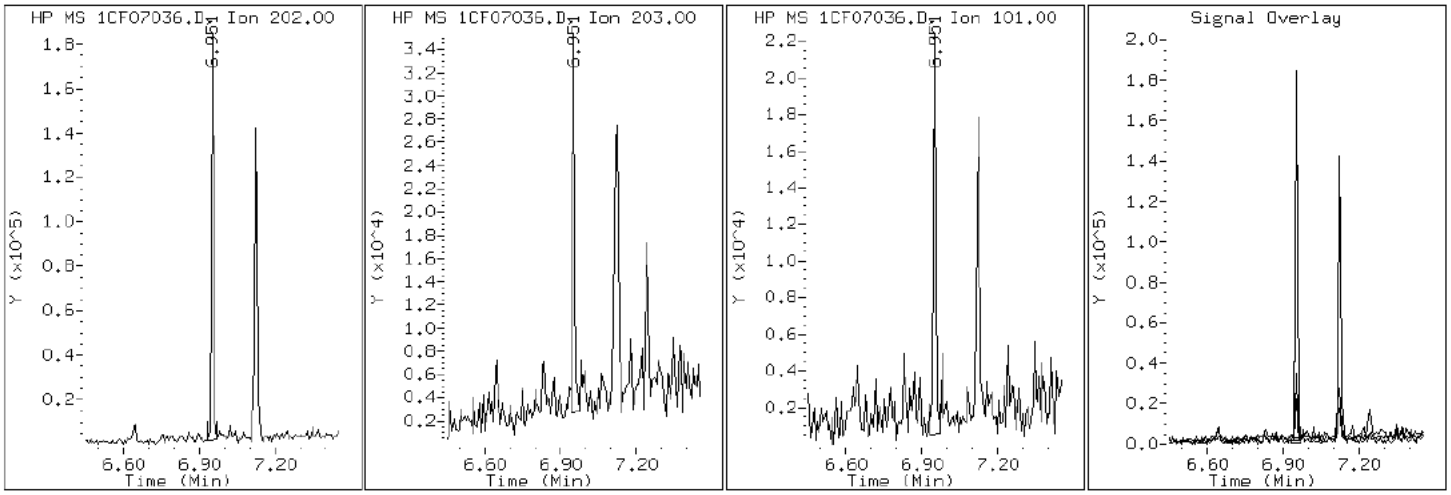
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

15 Fluoranthene



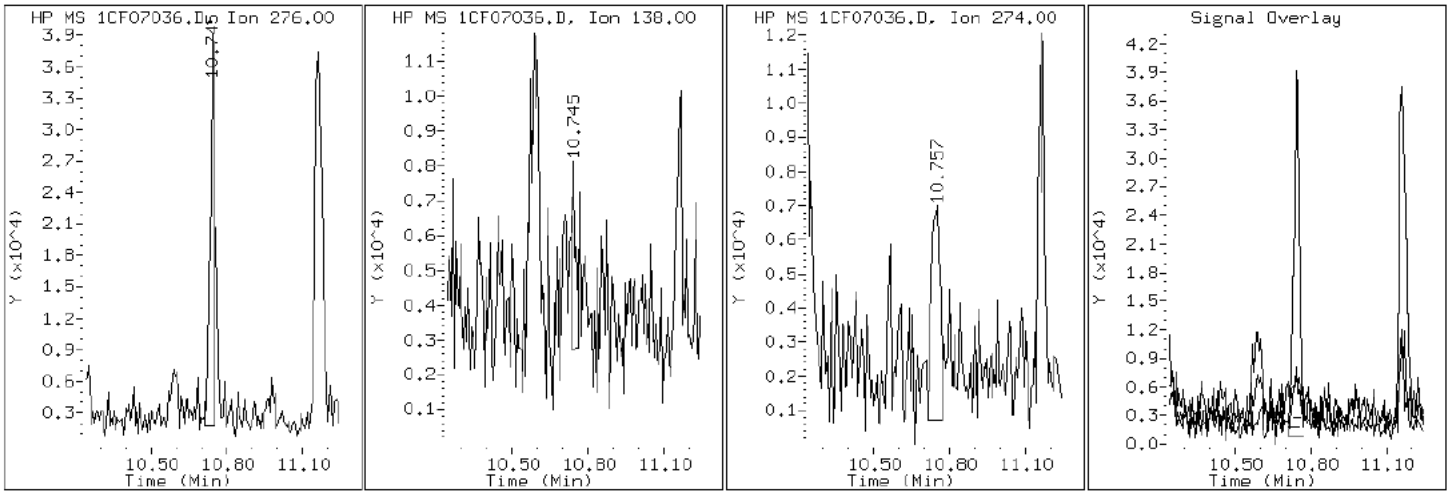
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

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



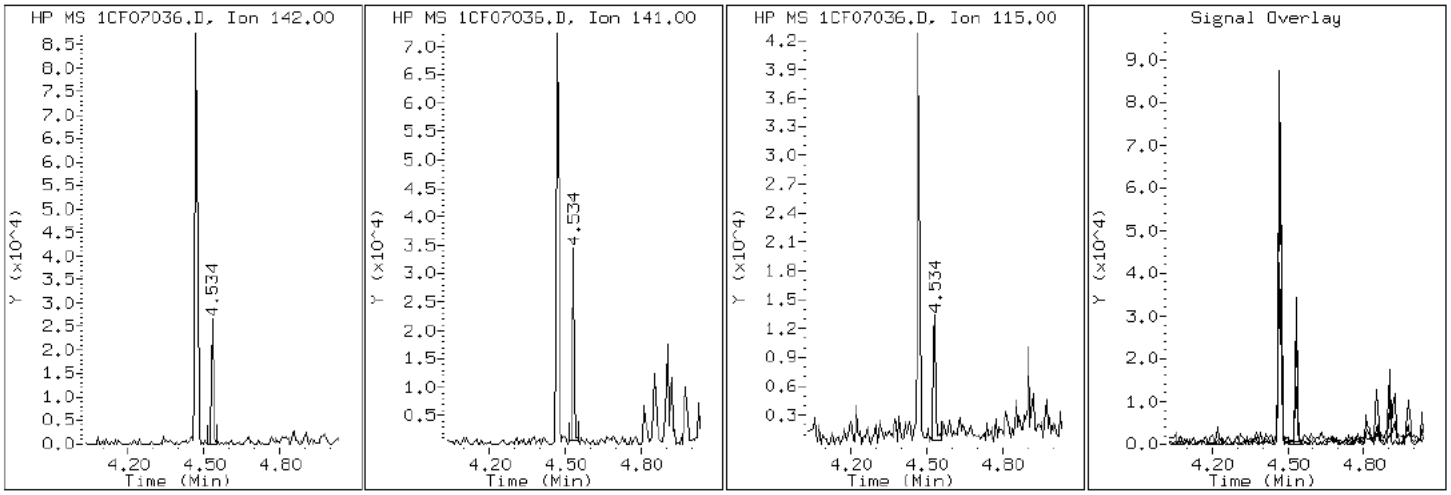
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

4 1-Methylnaphthalene



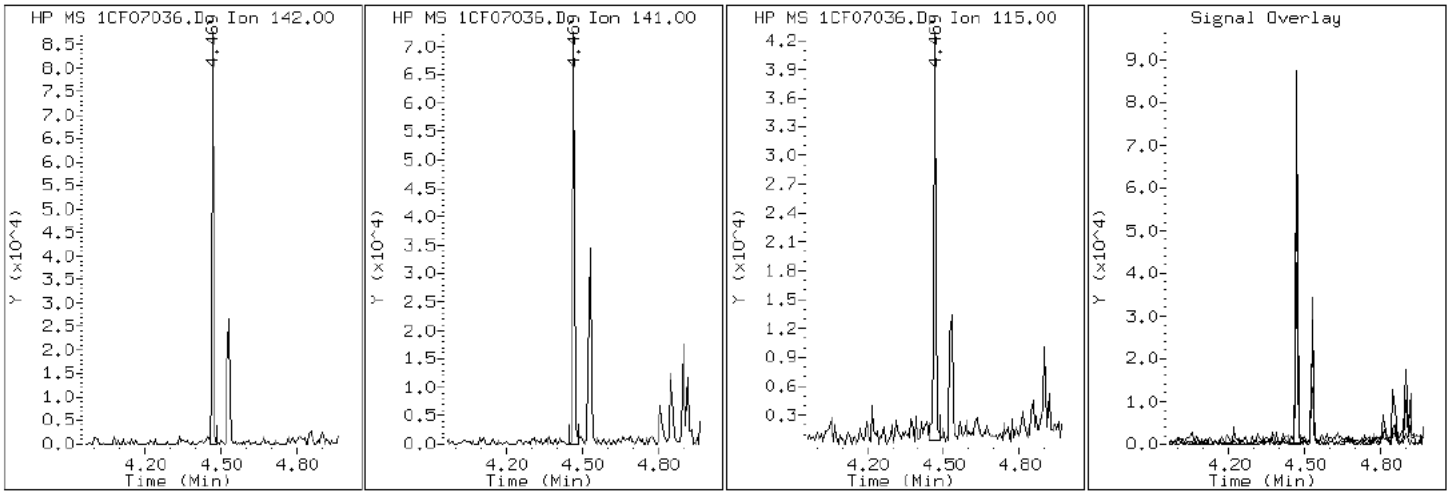
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

3 2-Methylnaphthalene



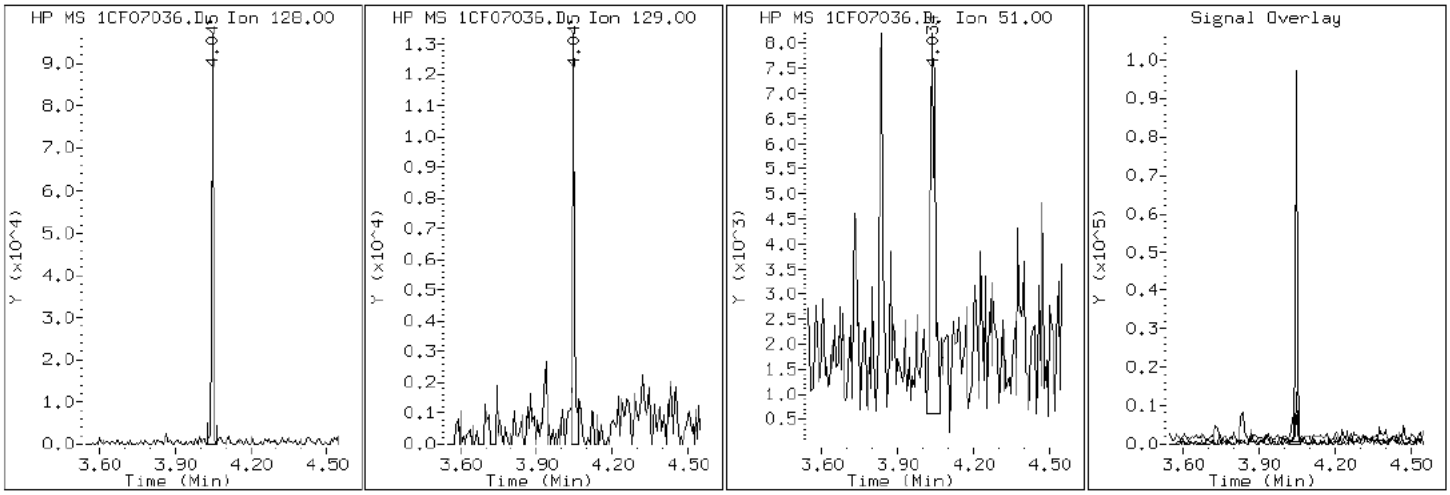
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

2 Naphthalene



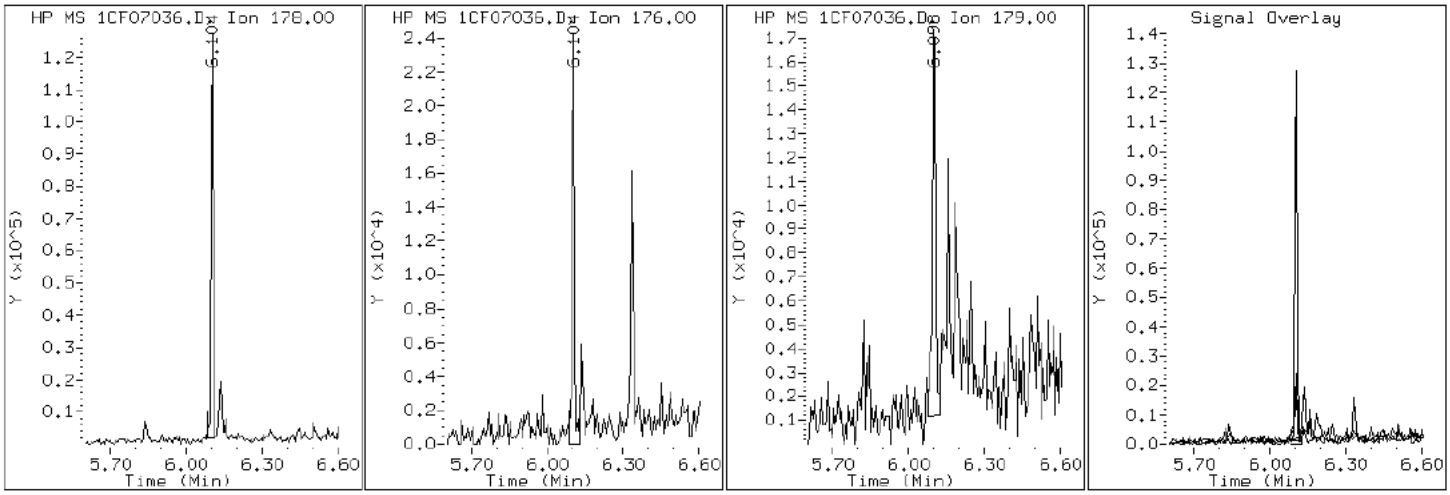
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

11 Phenanthrene



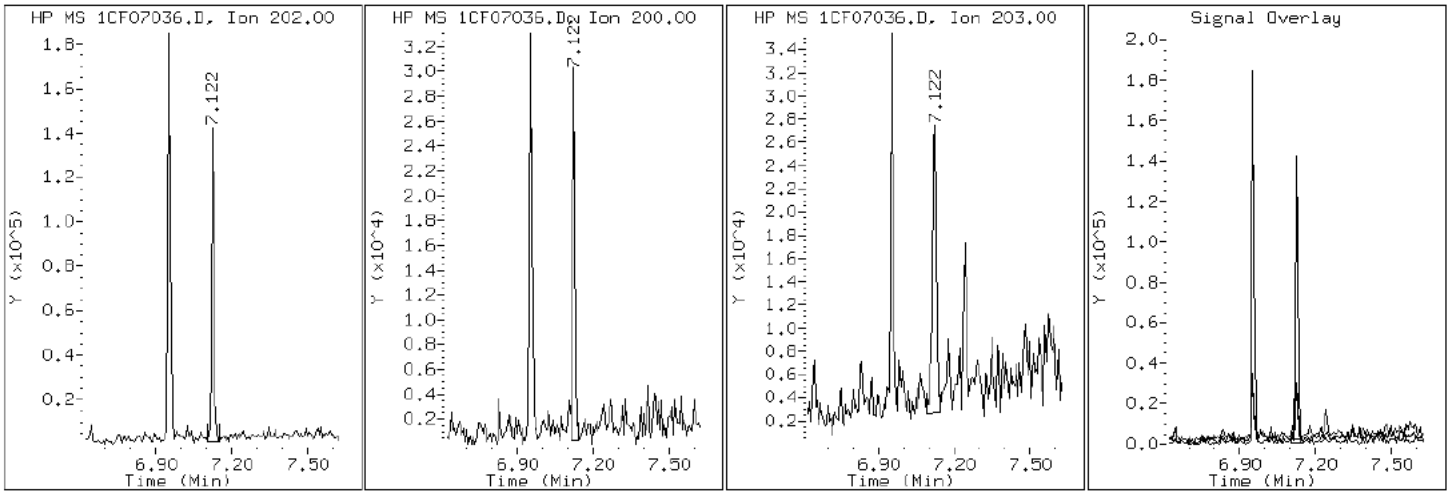
Data File: 1CF07036.D

Date: 07-JUN-2013 21:42

Client ID: HP0299B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90852-a-40-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF07036.D
Inj. Date and Time: 07-JUN-2013 21:42
Instrument ID: BSMC5973.i
Client ID: HP0299B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/09/2013

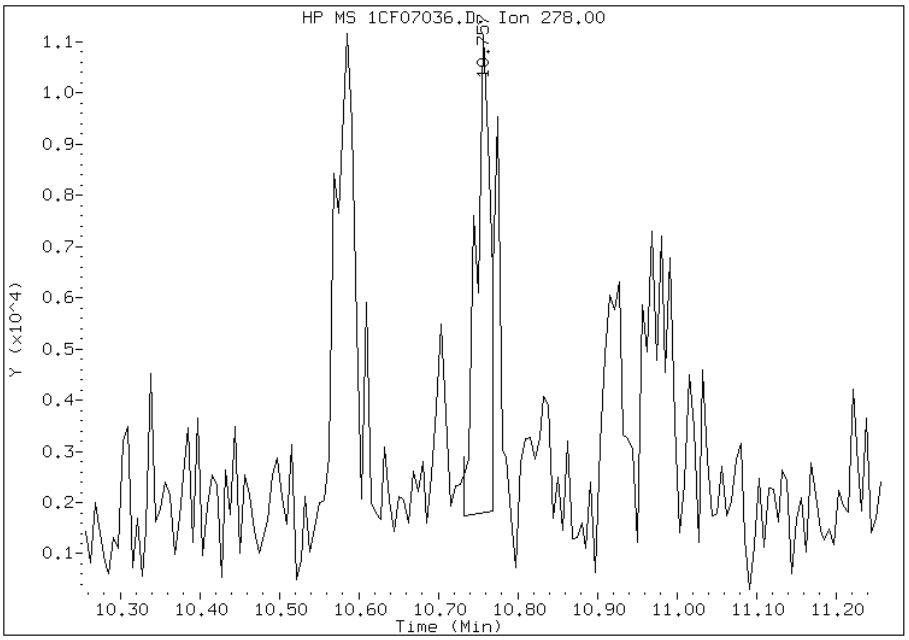
Processing Integration Results

RT: 10.76

Response: 11727

Amount: 0

Conc: 12



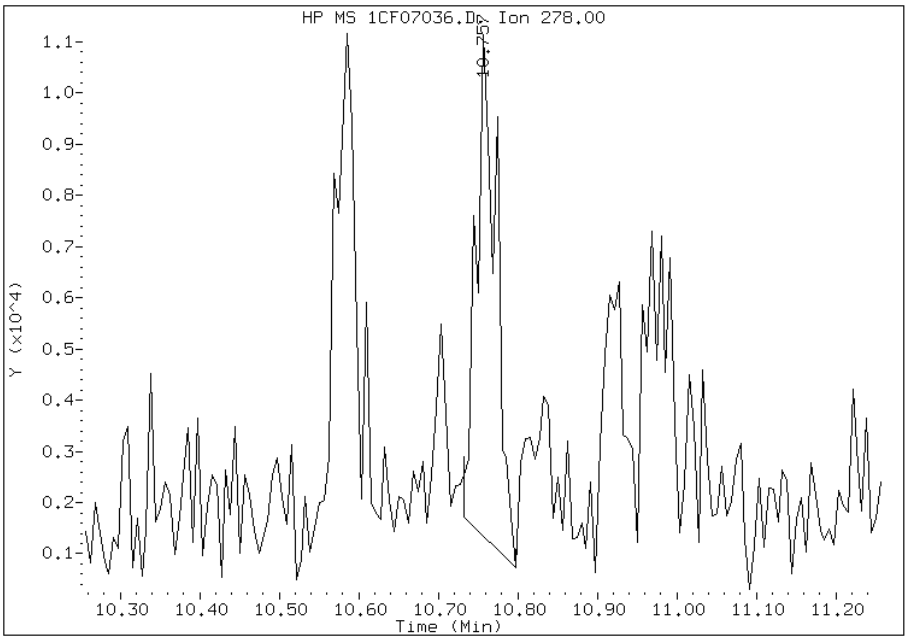
Manual Integration Results

RT: 10.76

Response: 17298

Amount: 0

Conc: 17



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF07036.D
Inj. Date and Time: 07-JUN-2013 21:42
Instrument ID: BSMC5973.i
Client ID: HP0299B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

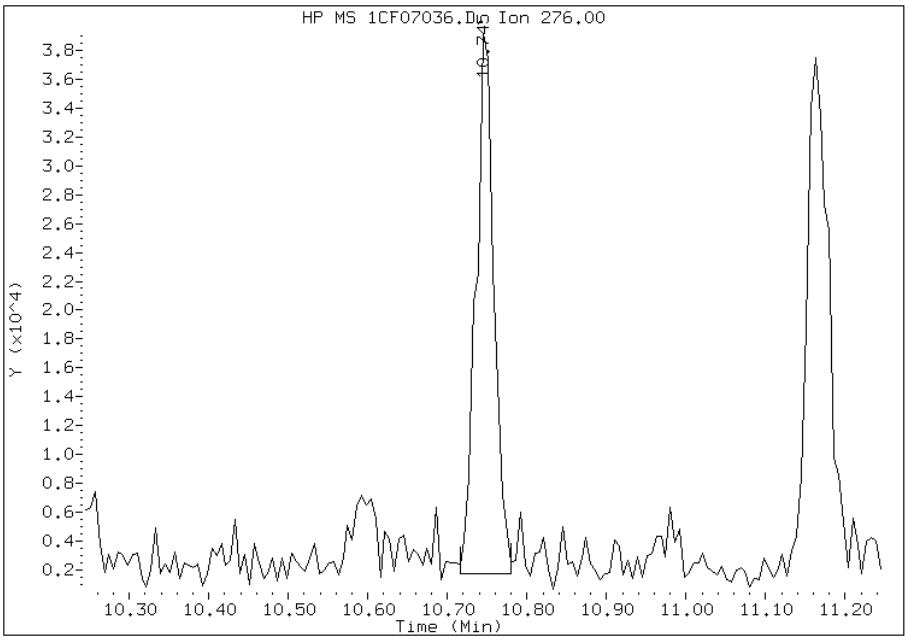
Processing Integration Results

RT: 10.74

Response: 58630

Amount: 1

Conc: 58



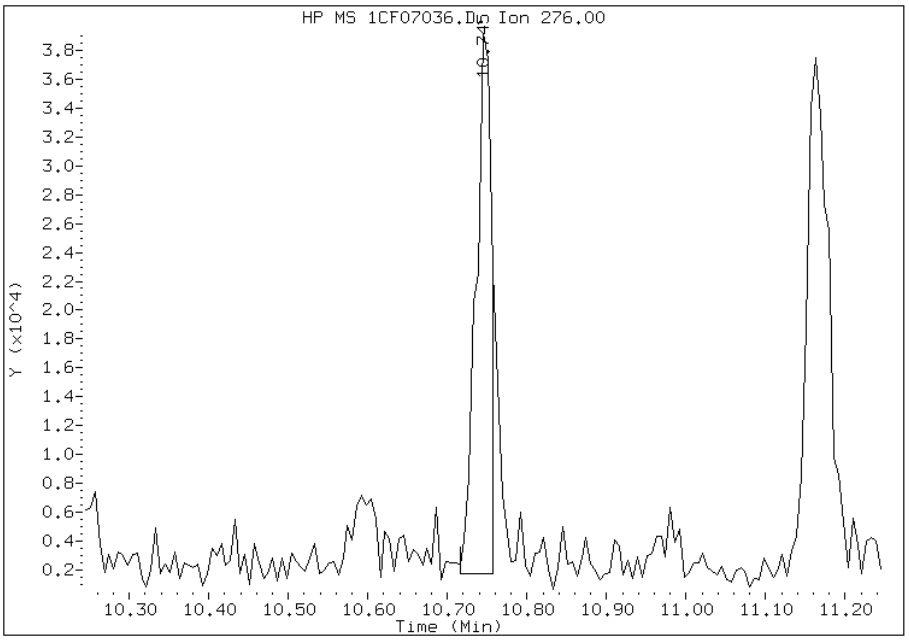
Manual Integration Results

RT: 10.75

Response: 50542

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 11:05
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2 Analy Batch No.: 137917

SDG No.: 68090852-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137917/8	1AE30007.D
Level 2	IC 660-137917/9	1AE30008.D
Level 3	IC 660-137917/10	1AE30009.D
Level 4	IC 660-137917/11	1AE30010.D
Level 5	ICIS 660-137917/7	1AE30006.D
Level 6	IC 660-137917/12	1AE30011.D
Level 7	IC 660-137917/13	1AE30012.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	0.7847 0.8836	0.8329 0.9380	0.8269	0.8583	0.9066	Ave		0.8616			0.0000	6.0		15.0			
2-Methylnaphthalene	0.2155 0.4325	0.2989 0.4742	0.3535	0.4204	0.4394	None	0.0039	0.4498							0.9955		
1-Methylnaphthalene	0.5083 0.6219	0.5518 0.6350	0.6359	0.6855	0.5816	Ave		0.6029			0.0000	9.9		15.0			
1,1'-Biphenyl	0.3134 0.6386	0.6325 0.7325	0.6467	0.7050	0.6286	Lin2	0.0027	0.6933							0.9977		
Acenaphthylene	1.2715 1.7928	1.4868 2.0493	1.4933	1.6532	1.6816	None	0.0034	1.8806							0.9909		
Acenaphthene	0.9071 0.9589	0.8303 1.1038	0.8251	0.9180	0.9146	Ave		0.9226			0.0000	10.1		15.0			
Dibenzofuran	0.8288 1.5050	1.1758 1.5570	1.2515	1.4153	1.2845	None	0.0021	1.4175							0.9937		
Fluorene	0.4789 1.1129	0.8158 1.1967	0.9455	1.0234	0.9654	None	0.0028	1.0589							0.9915		
Phenanthrene	0.8320 0.9019	0.8248 0.9856	0.7457	0.8420	0.8690	Ave		0.8573			0.0000	8.6		15.0			
Anthracene	0.7790 0.9645	0.9696 1.0272	1.0330	0.9031	0.9549	Ave		0.9473			0.0000	9.1		15.0			
Fluoranthene	0.6407 1.0519	0.9273 1.0483	0.8749	0.9513	1.0120	None	0.0018	1.0027							0.9952		
Pyrene	1.0116 1.1678	1.1655 1.1511	1.2422	1.2040	1.1463	Ave		1.1555			0.0000	6.2		15.0			
Benzo[a]anthracene	1.2837 1.0286	1.0444 1.1650	0.9240	1.0307	1.0456	Ave		1.0746			0.0000	10.8		15.0			
Chrysene	1.3676 1.1698	1.1862 1.0514	1.1662	1.1877	1.0303	Ave		1.1762			0.0000	8.3		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.: 680-90852-2 Analy Batch No.: 137917

SDG No.: 68090852-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

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	1.1428 1.2137	0.6048 1.2471	0.7823	0.9374	1.0349	Qua	0.0212	0.9211	-0.089		0.0000				0.9975		0.9900
Benzo[k]fluoranthene	0.4476 1.3352	1.4305 1.5413	1.3535	1.3795	1.3107	Lin2	0.0033	1.4398							0.9935		
Benzo[a]pyrene	0.9129 1.0679	0.9598 1.1835	0.8304	0.8773	0.9973	Ave		0.9756			0.0000	12.4		15.0			
Indeno[1,2,3-cd]pyrene	0.6492 0.8407	0.5575 0.9868	0.7235	0.6982	0.7650	Qua	0.0057	1.3939	-0.313		0.0000				0.9998		0.9900
Dibenz(a,h)anthracene	0.6565 0.9347	0.6678 0.9947	0.8013	0.7916	0.8356	None	0.0033	0.9364							0.9928		
Benzo[g,h,i]perylene	0.8058 0.9417	0.7808 0.9053	0.8970	0.8813	0.8407	Ave		0.8711			0.0000	6.6		15.0			
o-Terphenyl	0.5598 0.5761	0.4896 0.6174	0.5054	0.5135	0.5599	Ave		0.5460			0.0000	8.3		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-90852-2 Analy Batch No.: 137917

SDG No.: 68090852-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137917/8	1AE30007.D
Level 2	IC 660-137917/9	1AE30008.D
Level 3	IC 660-137917/10	1AE30009.D
Level 4	IC 660-137917/11	1AE30010.D
Level 5	ICIS 660-137917/7	1AE30006.D
Level 6	IC 660-137917/12	1AE30011.D
Level 7	IC 660-137917/13	1AE30012.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	2564 453050	14247 808043	72755	142015	310274	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	None	704 221764	5113 408513	31104	69559	150366	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1661 318847	9438 547004	55947	113430	199034	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Lin2	1024 327427	10819 630960	56900	116654	215126	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	None	2453 443520	14274 812251	69448	148976	312247	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	1750 237217	7971 437520	38374	82723	169836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	None	1599 372324	11288 617118	58203	127539	238515	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	None	924 275316	7832 474318	43971	92220	179256	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	2262 369301	11509 658799	53771	121579	251727	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	2118 394926	13529 686637	74490	130408	276628	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	None	1742 430714	12939 700755	63089	137369	293153	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2123 424933	13782 696926	72282	139918	296534	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	2694 374261	12350 705326	53768	119782	270485	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2870 425638	14027 636573	67856	138024	266526	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Qua	2336 394702	6478 561045	44371	92047	252249	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.: 680-90852-2 Analy Batch No.: 137917

SDG No.: 68090852-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

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	Lin2	915 434205	15322 693382	76772	135460	319488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	1866 347277	10280 532445	47097	86149	243095	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Qua	1327 273397	5971 443933	41038	68563	186459	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	None	1342 303964	7153 447505	45447	77730	203684	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1647 306240	8363 407273	50880	86542	204917	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	1522 235919	6832 412698	36445	74153	162193	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
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30006.D
Lab Smp Id: CCVIS-1559459
Inj Date : 30-MAY-2013 15:07
Operator : TP Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 31-May-2013 13:45 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 16:38 Cal File: 1AE30012.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM-VM7N

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.493	2.493	(1.000)	684481	40.0000	(H)
* 7 Acenaphthene-d10	164	3.524	3.524	(1.000)	371379	40.0000	(H)
* 11 Phenanthrene-d10	188	4.464	4.464	(1.000)	579381	40.0000	
$ 15 o-Terphenyl	230	4.758	4.758	(1.066)	162193	20.0000	20.5095
* 19 Chrysene-d12	240	6.473	6.473	(1.000)	517389	40.0000	
* 24 Perylene-d12	264	7.552	7.552	(1.000)	487492	40.0000	(H)
2 Naphthalene	128	2.503	2.503	(1.004)	310274	20.0000	21.2170(H)
3 2-Methylnaphthalene	141	2.915	2.915	(1.169)	150366	20.0000	24.0645(H)
4 1-Methylnaphthalene	142	2.968	2.968	(1.191)	199034	20.0000	20.6769(H)
5 1,1'-Biphenyl	154	3.193	3.193	(1.281)	215126	20.0000	23.3615(H)
6 Acenaphthylene	152	3.433	3.433	(0.974)	312247	20.0000	22.0993
8 Acenaphthene	154	3.540	3.540	(1.005)	169836	20.0000	19.8280(H)
9 Dibenzofuran	168	3.647	3.647	(1.035)	238515	20.0000	21.6272(H)
10 Fluorene	166	3.850	3.850	(1.092)	179256	20.0000	21.6652(H)
12 Phenanthrene	178	4.480	4.480	(1.004)	251727	20.0000	20.2725
13 Anthracene	178	4.512	4.512	(1.011)	276628	20.0000	21.6893
16 Fluoranthene	202	5.340	5.340	(1.196)	293153	20.0000	23.1685
17 Pyrene	202	5.500	5.500	(0.850)	296534	20.0000	20.7817
18 Benzo(a)anthracene	228	6.467	6.467	(0.999)	270485	20.0000	19.2427
20 Chrysene	228	6.489	6.489	(1.002)	266526	20.0000	18.3002(H)
21 Benzo(b)fluoranthene	252	7.279	7.279	(0.964)	252249	20.0000	17.7849(H)
22 Benzo(k)fluoranthene	252	7.301	7.301	(0.967)	319488	20.0000	21.1772(H)
23 Benzo(a)pyrene	252	7.509	7.509	(0.994)	243095	20.0000	21.2354(H)
25 Indeno(1,2,3-cd)pyrene	276	8.294	8.294	(1.098)	186459	20.0000	17.3131(MH)
26 Dibenzo(a,h)anthracene	278	8.321	8.321	(1.102)	203684	20.0000	18.0548(H)
27 Benzo(g,h,i)perylene	276	8.503	8.503	(1.126)	204917	20.0000	21.9686(H)

QC Flag Legend

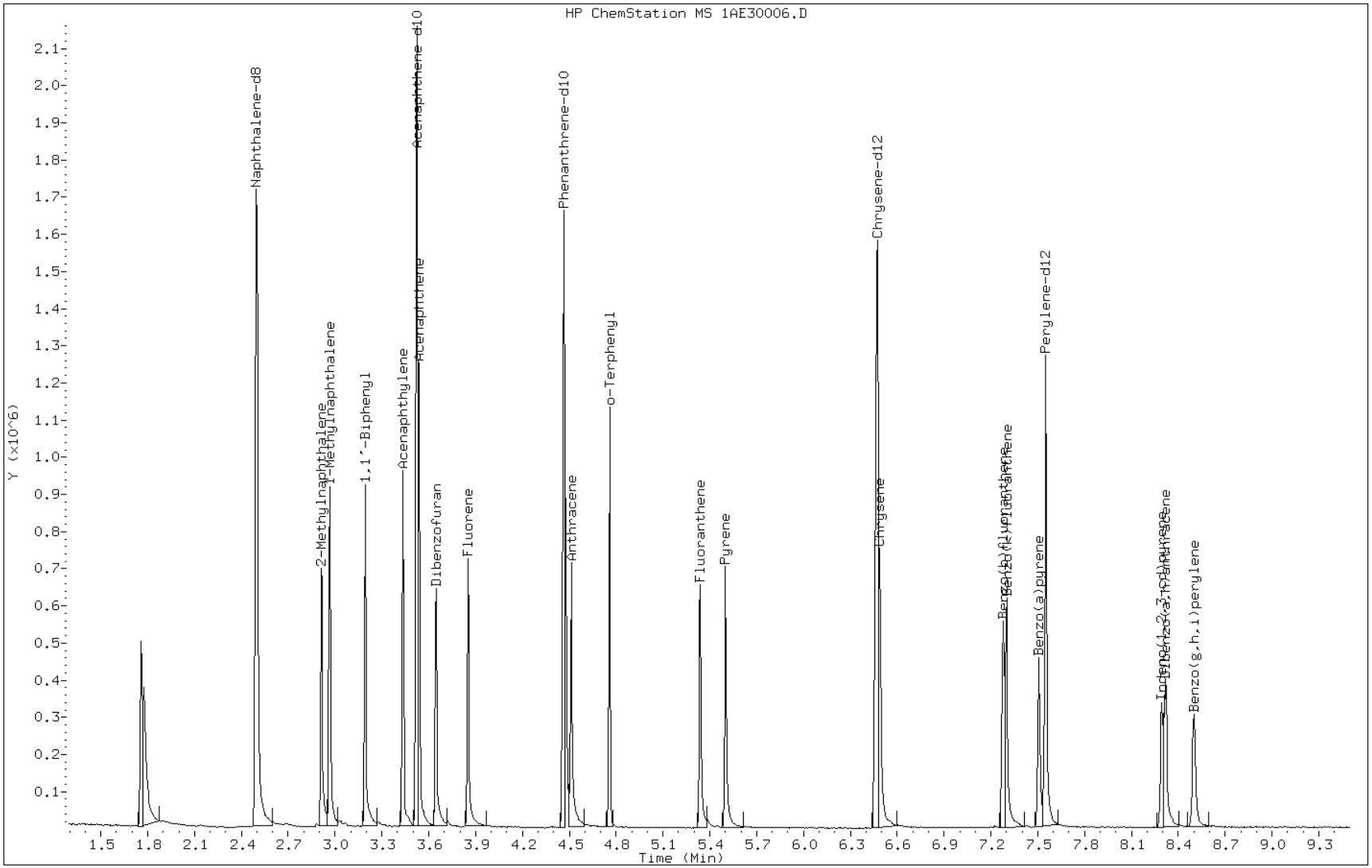
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE30006.D

Date: 30-MAY-2013 15:07

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1559459 Operator: TP



Manual Integration Report

Data File: 1AE30006.D
Inj. Date and Time: 30-MAY-2013 15:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/31/2013

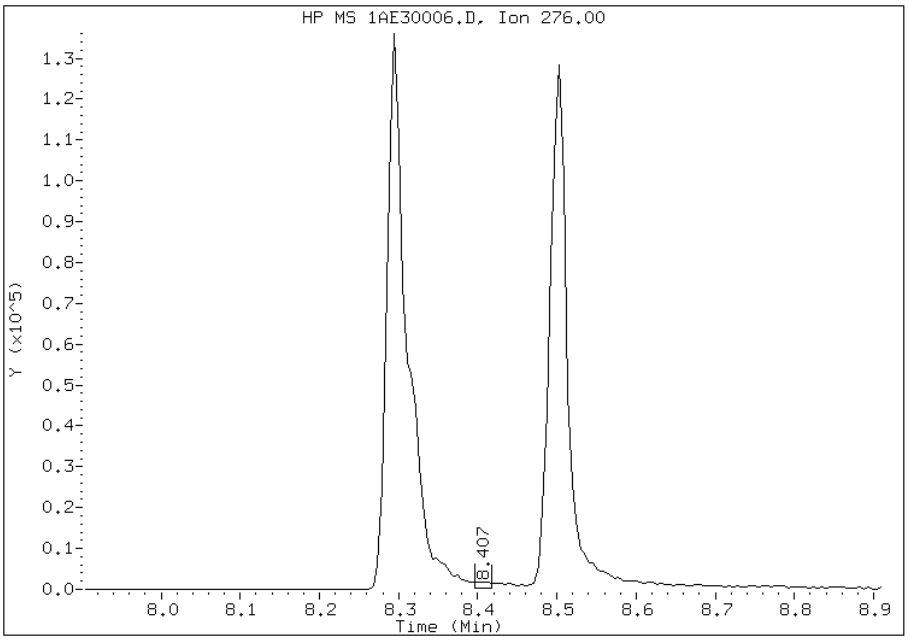
Processing Integration Results

RT: 8.41

Response: 2052

Amount: 14

Conc: 14



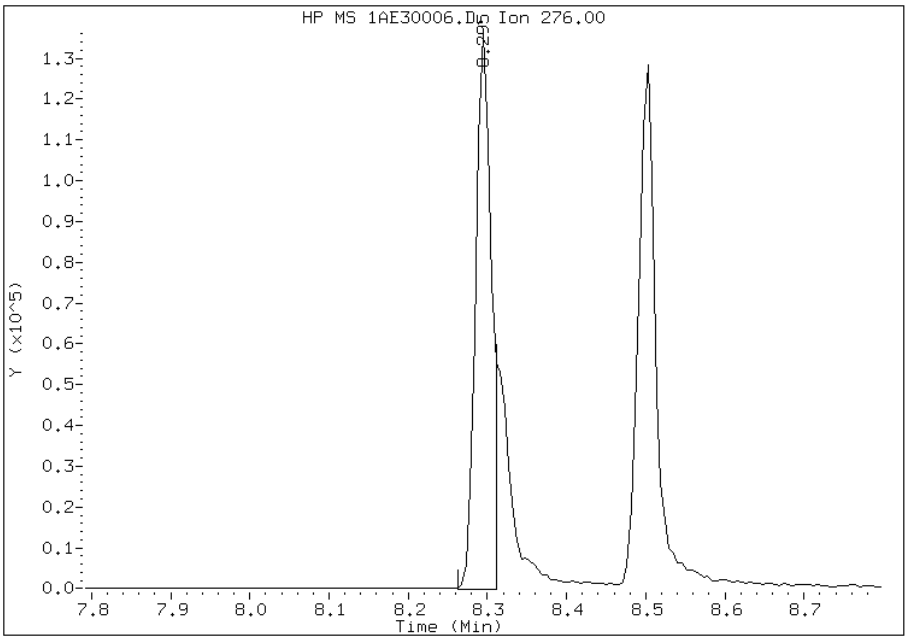
Manual Integration Results

RT: 8.29

Response: 186459

Amount: 17

Conc: 17



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30007.D
Lab Smp Id: IC-1559454
Inj Date : 30-MAY-2013 15:23
Operator : TP Inst ID: BSMA5973.i
Smp Info : IC-1559454
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 15:07 Cal File: 1AE30006.D
Als bottle: 4 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	2.496	2.493	(1.000)	653500	40.0000	
*	7 Acenaphthene-d10	164	3.522	3.524	(1.000)	385846	40.0000	
*	11 Phenanthrene-d10	188	4.462	4.464	(1.000)	543775	40.0000	
$	15 o-Terphenyl	230	4.756	4.758	(1.066)	1522	0.20000	0.2050
*	19 Chrysene-d12	240	6.465	6.473	(1.000)	419728	40.0000	
*	24 Perylene-d12	264	7.544	7.552	(1.000)	408807	40.0000	
	2 Naphthalene	128	2.507	2.503	(1.004)	2564	0.20000	0.1821(TQ)
	3 2-Methylnaphthalene	141	2.918	2.915	(1.169)	704	0.20000	0.2336(M)
	4 1-Methylnaphthalene	142	2.971	2.968	(1.190)	1661	0.20000	0.1686
	5 1,1'-Biphenyl	154	3.196	3.193	(1.280)	1024	0.20000	0.7157(TQ)
	6 Acenaphthylene	152	3.436	3.433	(0.976)	2453	0.20000	1.5932(QM)
	8 Acenaphthene	154	3.538	3.540	(1.005)	1750	0.20000	0.1966
	9 Dibenzofuran	168	3.650	3.647	(1.036)	1599	0.20000	0.9183(M)
	10 Fluorene	166	3.858	3.850	(1.096)	924	0.20000	1.0837(TQ)
	12 Phenanthrene	178	4.478	4.480	(1.004)	2262	0.20000	0.1940
	13 Anthracene	178	4.515	4.512	(1.012)	2118	0.20000	0.1644(M)
	16 Fluoranthene	202	5.338	5.340	(1.196)	1742	0.20000	0.2266(T)
	17 Pyrene	202	5.498	5.500	(0.850)	2123	0.20000	0.1750
	18 Benzo(a)anthracene	228	6.460	6.467	(0.999)	2694	0.20000	0.2389
	20 Chrysene	228	6.481	6.489	(1.002)	2870	0.20000	0.2325
	21 Benzo(b)fluoranthene	252	7.293	7.279	(0.967)	2336	0.20000	1.7337(M)
	22 Benzo(k)fluoranthene	252	7.314	7.301	(0.970)	915	0.20000	0.1955(M)
	23 Benzo(a)pyrene	252	7.507	7.509	(0.995)	1866	0.20000	0.1940
	25 Indeno(1,2,3-cd)pyrene	276	8.292	8.294	(1.099)	1327	0.20000	0.1839(TM)
	26 Dibenzo(a,h)anthracene	278	8.303	8.321	(1.101)	1342	0.20000	0.2737(TM)
	27 Benzo(g,h,i)perylene	276	8.490	8.503	(1.125)	1647	0.20000	0.3064(TM)

QC Flag Legend

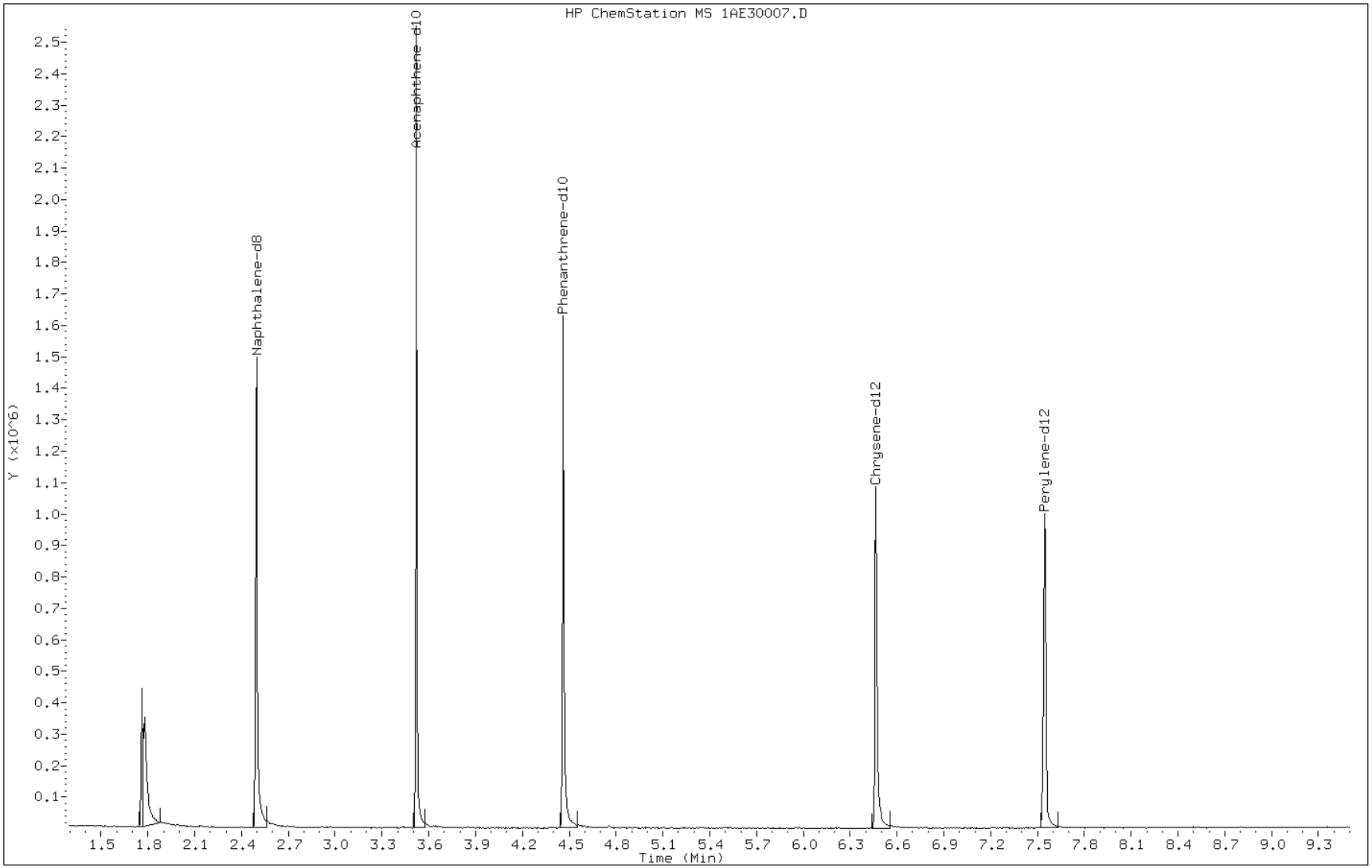
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE30007.D

Date: 30-MAY-2013 15:23

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559454 Operator: TP



Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 06/03/2013

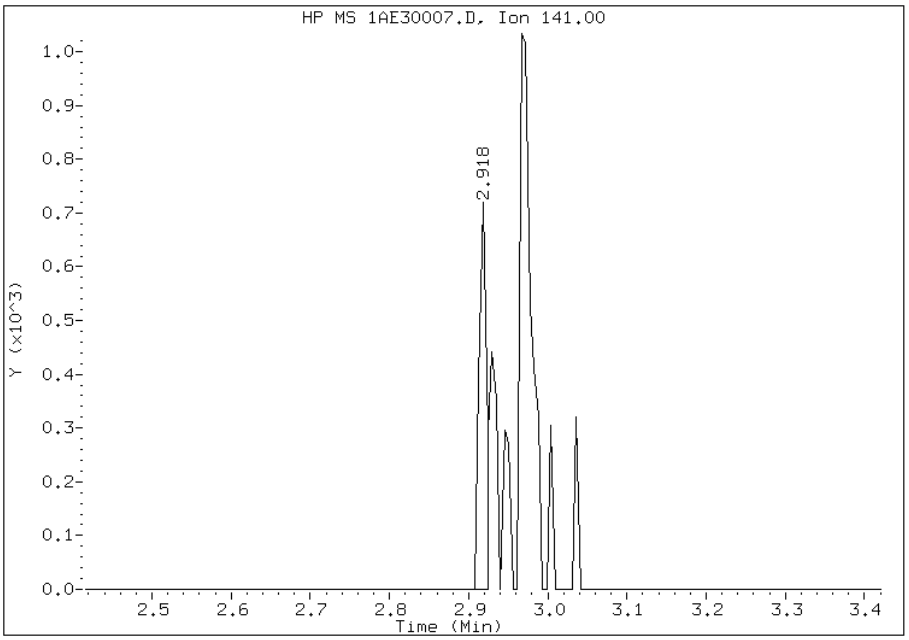
Processing Integration Results

RT: 2.92

Response: 448

Amount: 0

Conc: 0



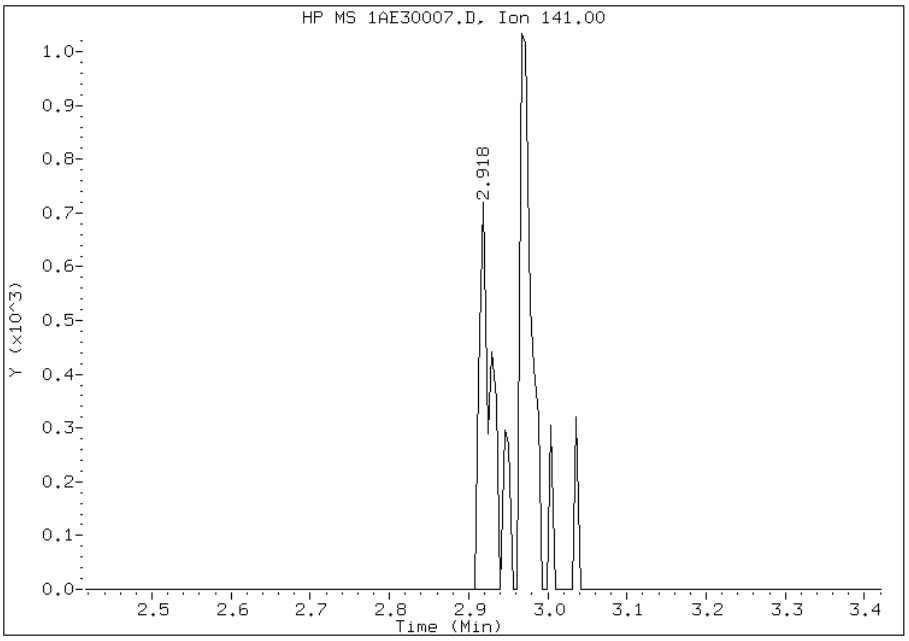
Manual Integration Results

RT: 2.92

Response: 704

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 06/03/2013

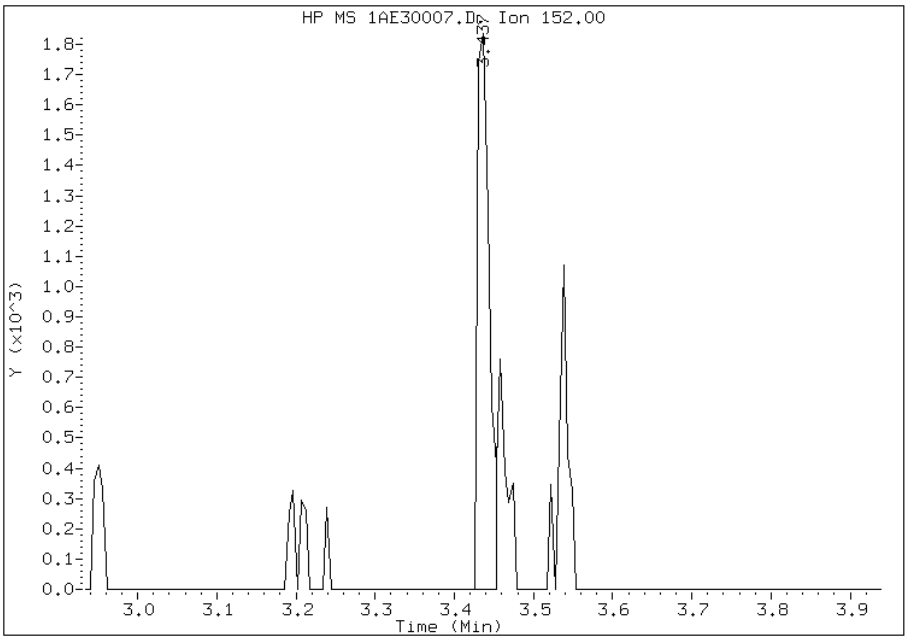
Processing Integration Results

RT: 3.44

Response: 1873

Amount: 2

Conc: 2



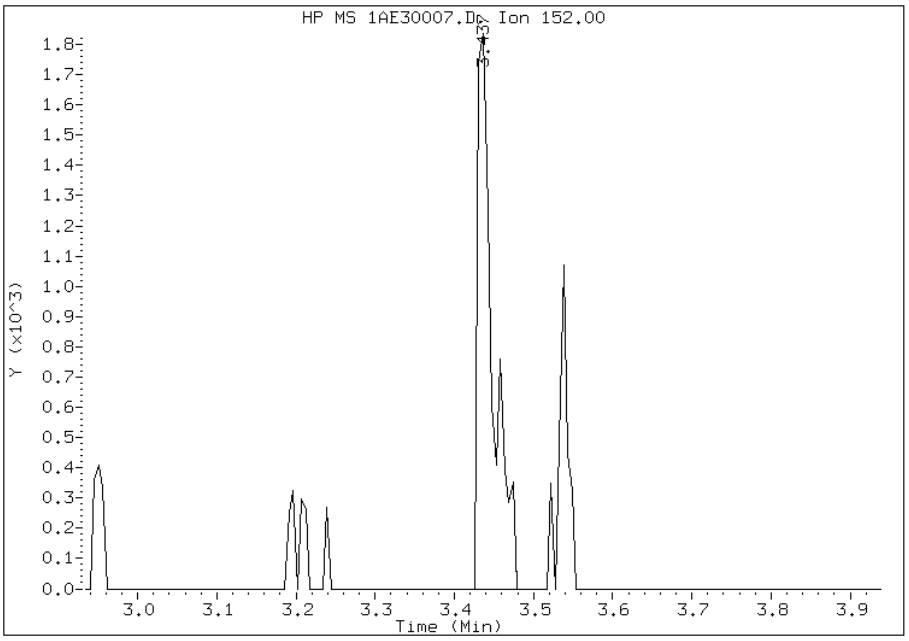
Manual Integration Results

RT: 3.44

Response: 2453

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:09
Manual Integration Reason: Baseline Event

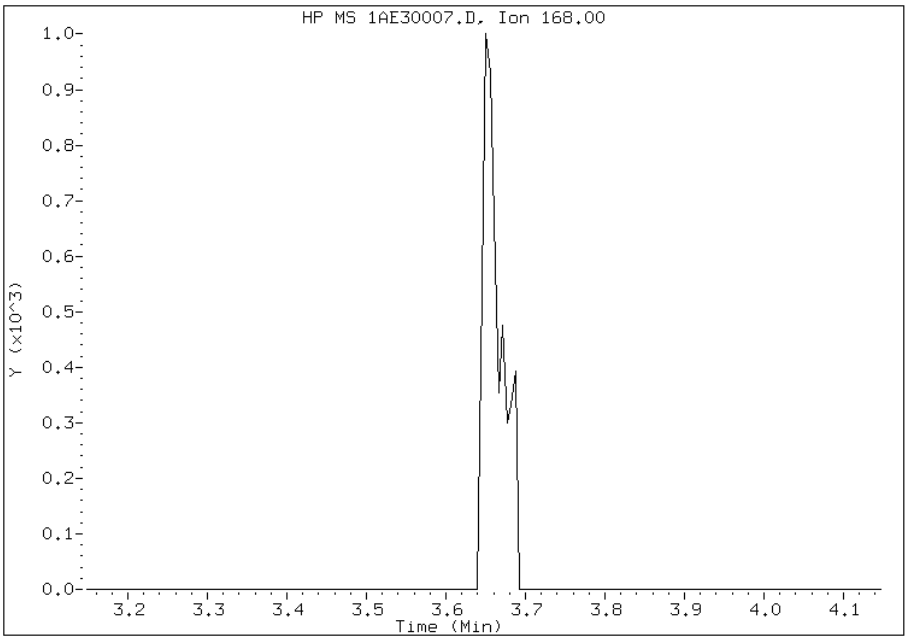
Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 06/03/2013

Processing Integration Results

Not Detected

Expected RT: 3.65



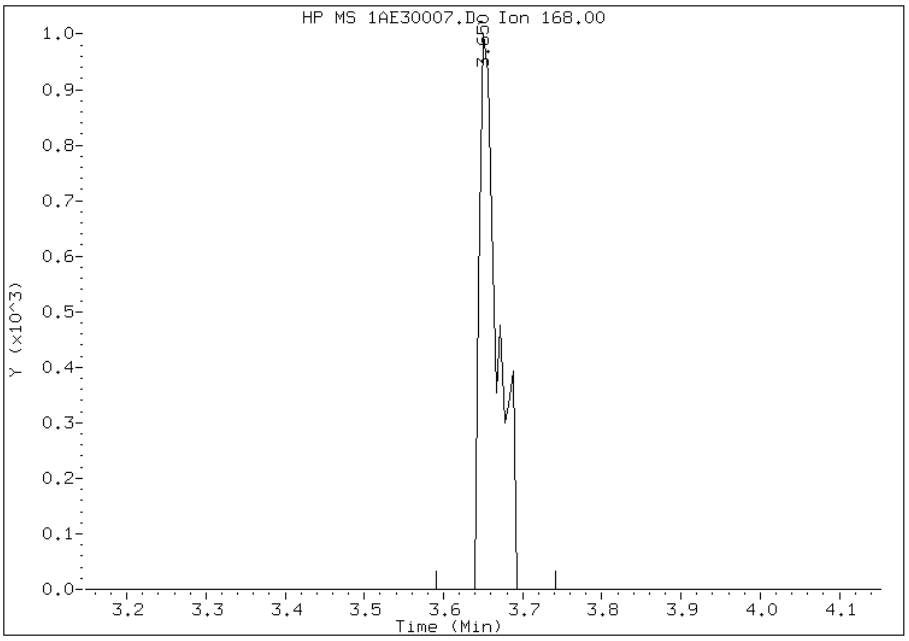
Manual Integration Results

RT: 3.65

Response: 1599

Amount: 1

Conc: 1



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:44
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 06/03/2013

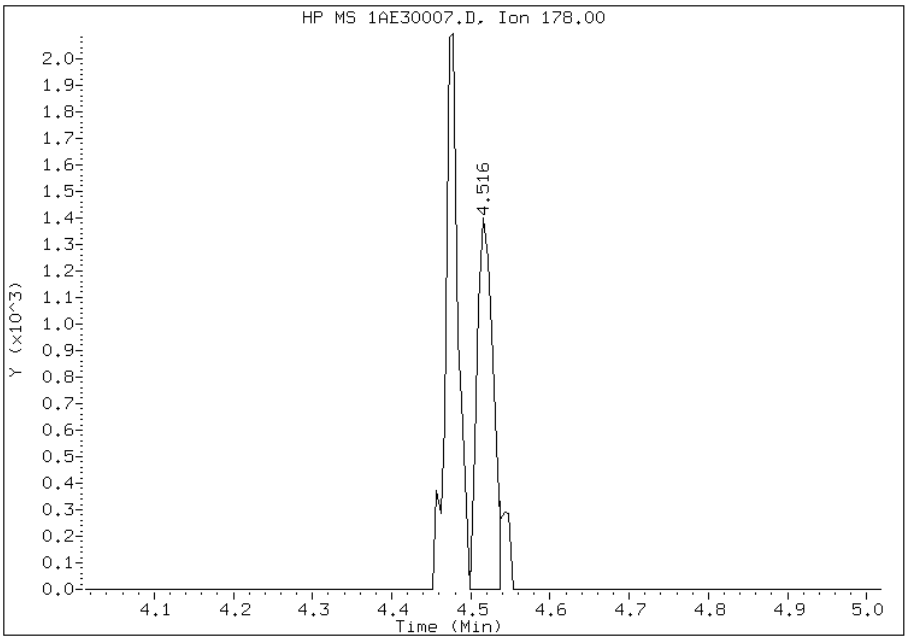
Processing Integration Results

RT: 4.52

Response: 1933

Amount: 0

Conc: 0



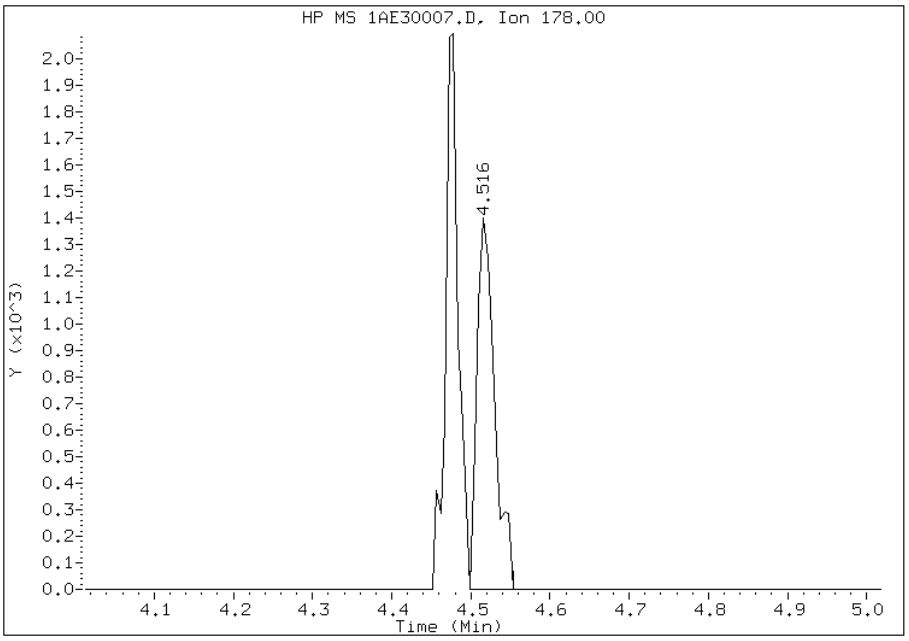
Manual Integration Results

RT: 4.52

Response: 2118

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/03/2013

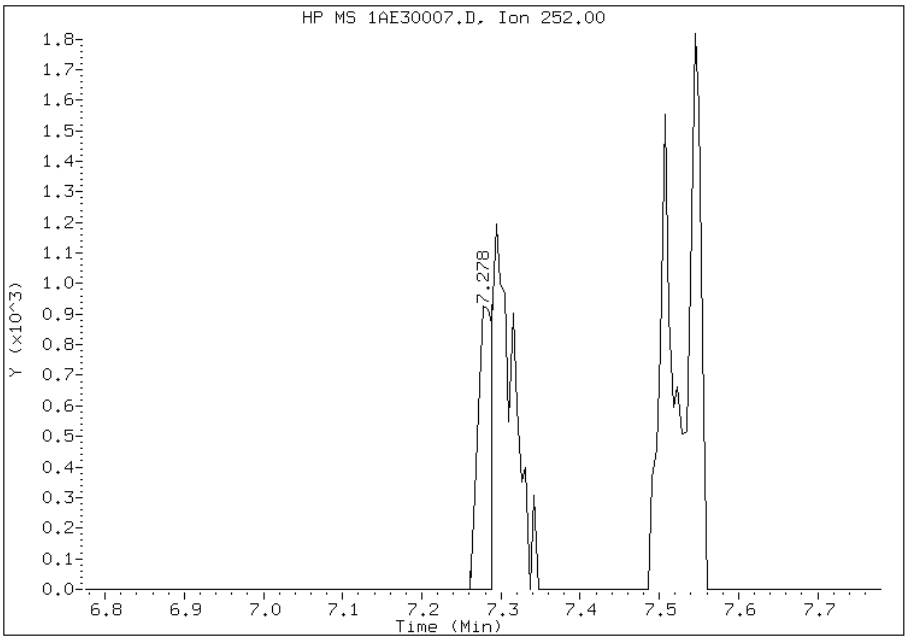
Processing Integration Results

RT: 7.28

Response: 1156

Amount: 2

Conc: 2



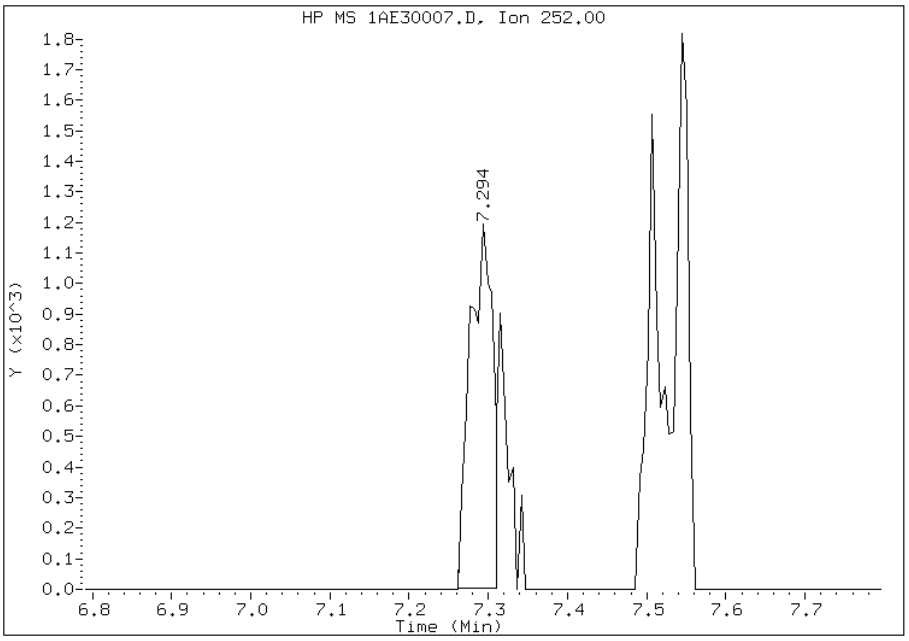
Manual Integration Results

RT: 7.29

Response: 2336

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/03/2013

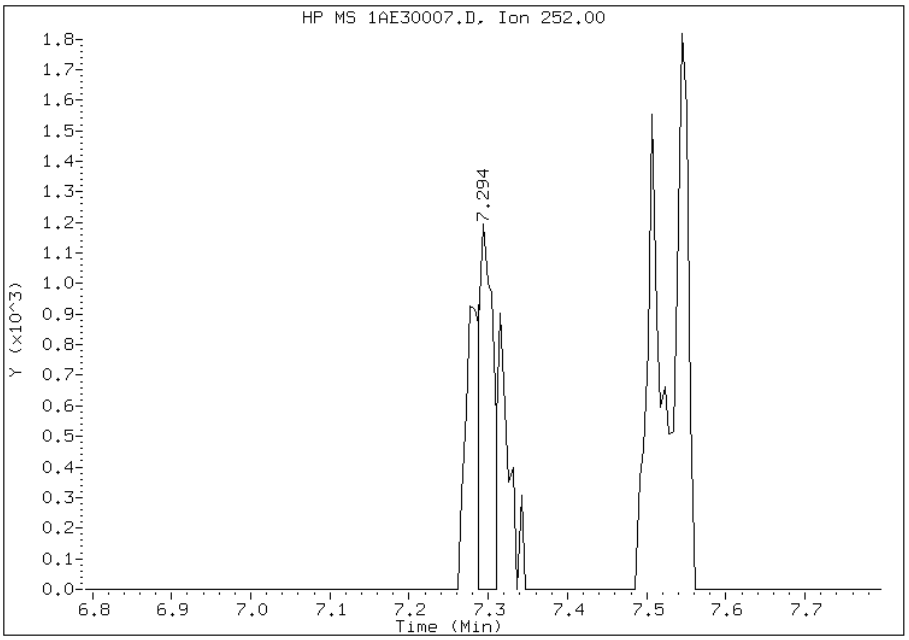
Processing Integration Results

RT: 7.29

Response: 1469

Amount: 0

Conc: 0



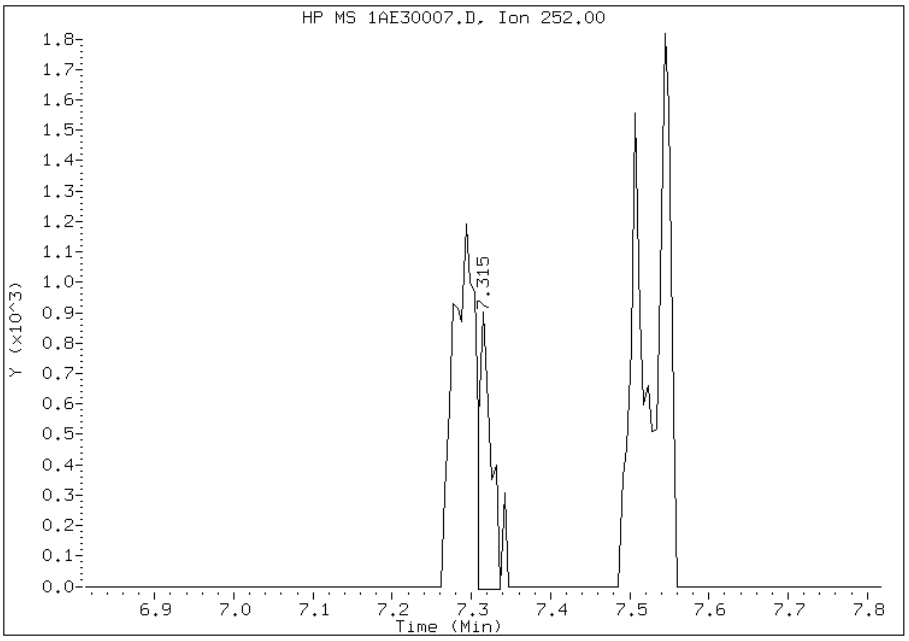
Manual Integration Results

RT: 7.31

Response: 915

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

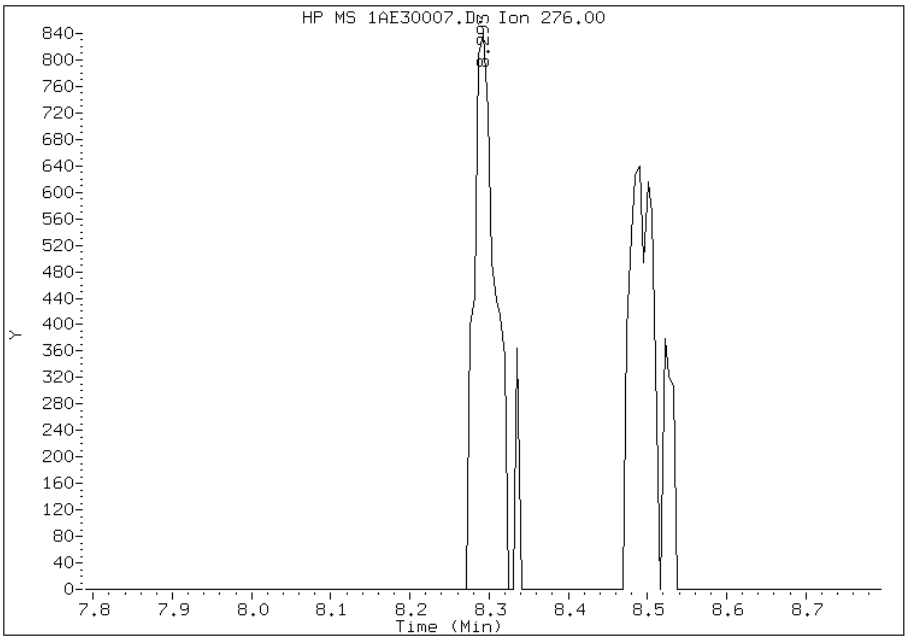
Processing Integration Results

RT: 8.29

Response: 1573

Amount: 0

Conc: 0



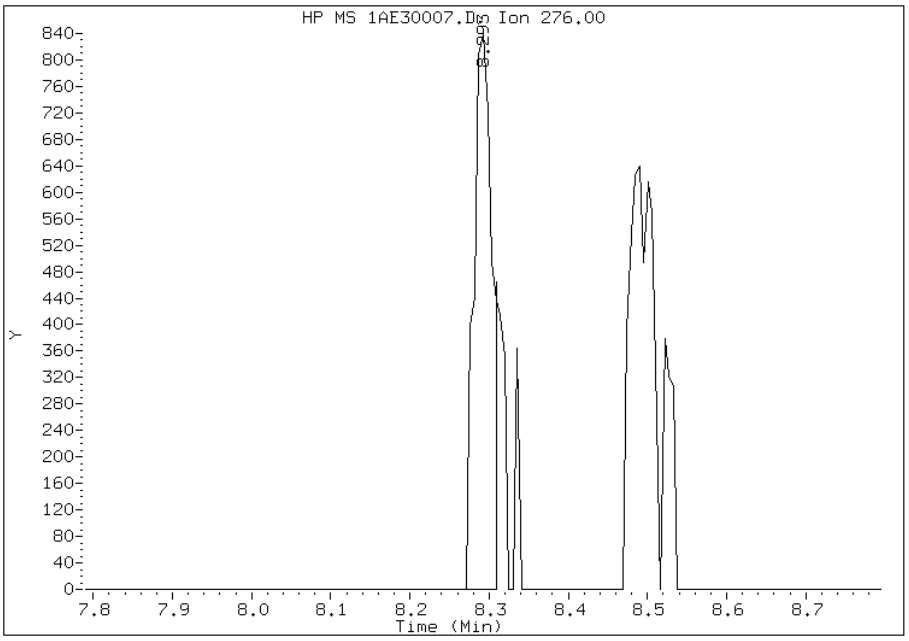
Manual Integration Results

RT: 8.29

Response: 1327

Amount: 0

Conc: 0



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/03/2013

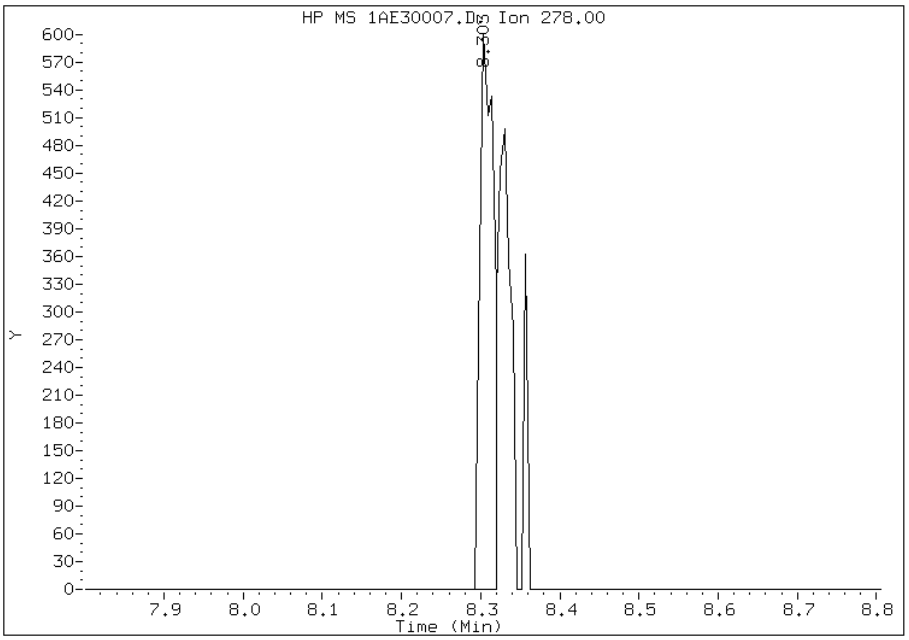
Processing Integration Results

RT: 8.30

Response: 717

Amount: 0

Conc: 0



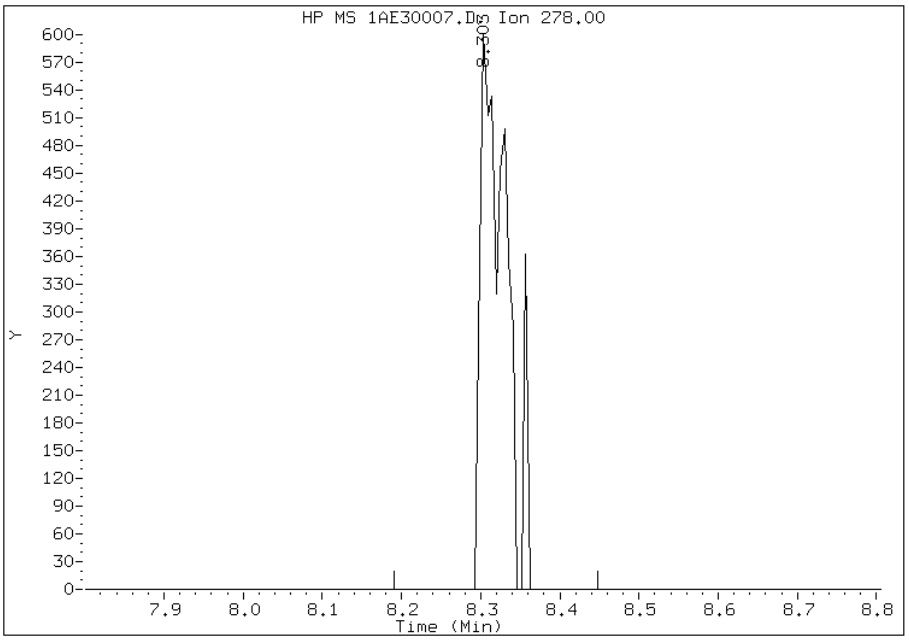
Manual Integration Results

RT: 8.30

Response: 1342

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30007.D
Inj. Date and Time: 30-MAY-2013 15:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

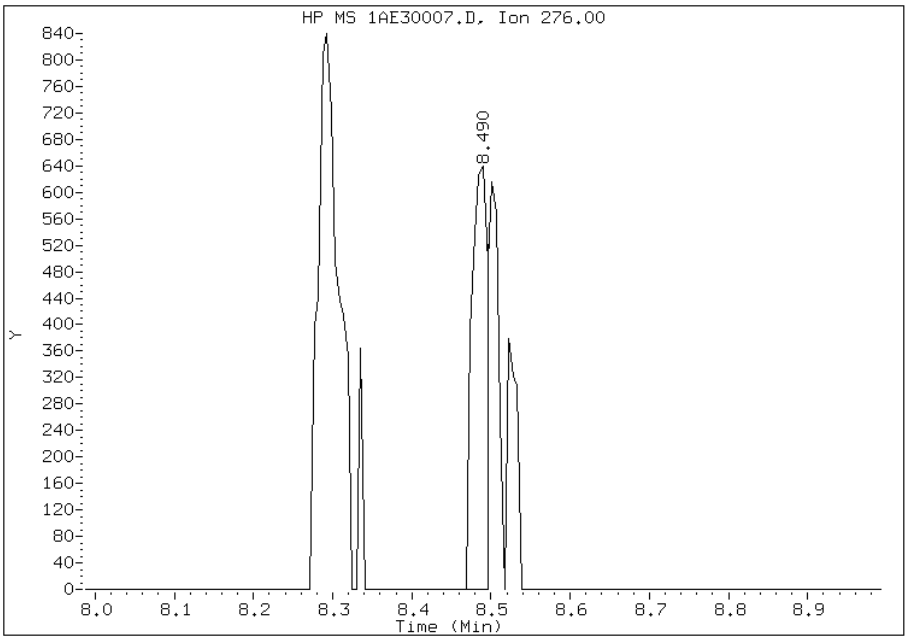
Processing Integration Results

RT: 8.49

Response: 860

Amount: 1

Conc: 1



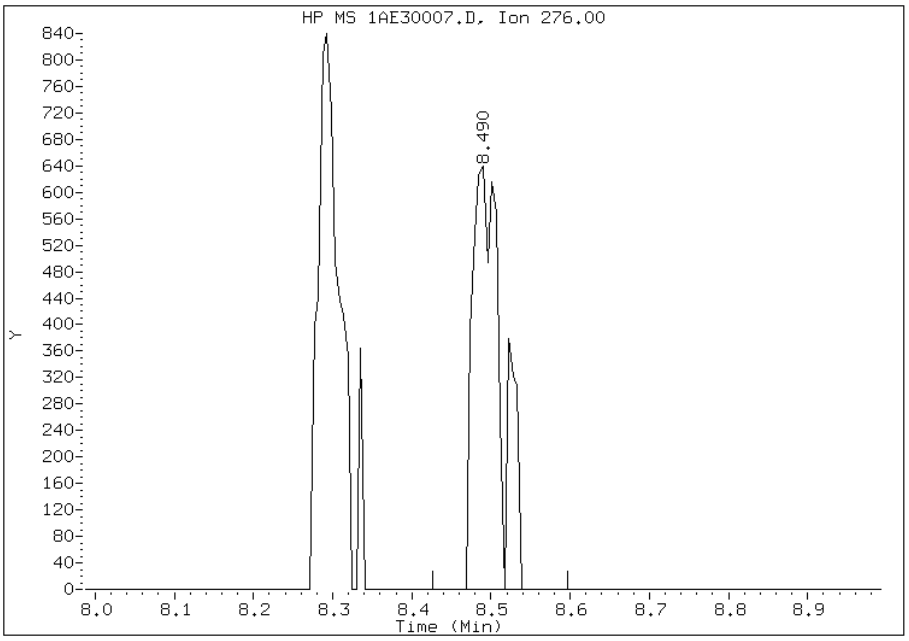
Manual Integration Results

RT: 8.49

Response: 1647

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:10
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30008.D
Lab Smp Id: IC-1559455
Inj Date : 30-MAY-2013 15:38
Operator : TP Inst ID: BSMA5973.i
Smp Info : IC-1559455
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 15:23 Cal File: 1AE30007.D
Als bottle: 5 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	2.495	2.493	(1.000)	684178	40.0000	
*	7 Acenaphthene-d10	164	3.521	3.524	(1.000)	384013	40.0000	
*	11 Phenanthrene-d10	188	4.461	4.464	(1.000)	558115	40.0000	
$	15 o-Terphenyl	230	4.755	4.758	(1.066)	6832	1.00000	0.8968
*	19 Chrysene-d12	240	6.465	6.473	(1.000)	472994	40.0000	
*	24 Perylene-d12	264	7.544	7.552	(1.000)	428426	40.0000	
	2 Naphthalene	128	2.506	2.503	(1.004)	14247	1.00000	0.9667(M)
	3 2-Methylnaphthalene	141	2.917	2.915	(1.169)	5113	1.00000	0.8029
	4 1-Methylnaphthalene	142	2.965	2.968	(1.188)	9438	1.00000	0.9152(M)
	5 1,1'-Biphenyl	154	3.195	3.193	(1.280)	10819	1.00000	1.5063(QM)
	6 Acenaphthylene	152	3.436	3.433	(0.976)	14274	1.00000	2.1987(QM)
	8 Acenaphthene	154	3.537	3.540	(1.005)	7971	1.00000	0.8999
	9 Dibenzofuran	168	3.644	3.647	(1.035)	11288	1.00000	1.5653(M)
	10 Fluorene	166	3.852	3.850	(1.094)	7832	1.00000	1.6859(QM)
	12 Phenanthrene	178	4.472	4.480	(1.002)	11509	1.00000	0.9621
	13 Anthracene	178	4.515	4.512	(1.012)	13529	1.00000	1.0235(M)
	16 Fluoranthene	202	5.337	5.340	(1.196)	12939	1.00000	0.9937(M)
	17 Pyrene	202	5.498	5.500	(0.850)	13782	1.00000	1.0086(M)
	18 Benzo(a)anthracene	228	6.459	6.467	(0.999)	12350	1.00000	0.9719
	20 Chrysene	228	6.481	6.489	(1.002)	14027	1.00000	1.0085
	21 Benzo(b)fluoranthene	252	7.271	7.279	(0.964)	6478	1.00000	2.0304
	22 Benzo(k)fluoranthene	252	7.293	7.301	(0.967)	15322	1.00000	1.1268(M)
	23 Benzo(a)pyrene	252	7.501	7.509	(0.994)	10280	1.00000	1.0200(M)
	25 Indeno(1,2,3-cd)pyrene	276	8.286	8.294	(1.098)	5971	1.00000	0.7899(M)
	26 Dibenzo(a,h)anthracene	278	8.308	8.321	(1.101)	7153	1.00000	0.8467
	27 Benzo(g,h,i)perylene	276	8.479	8.503	(1.124)	8363	1.00000	0.9838(M)

QC Flag Legend

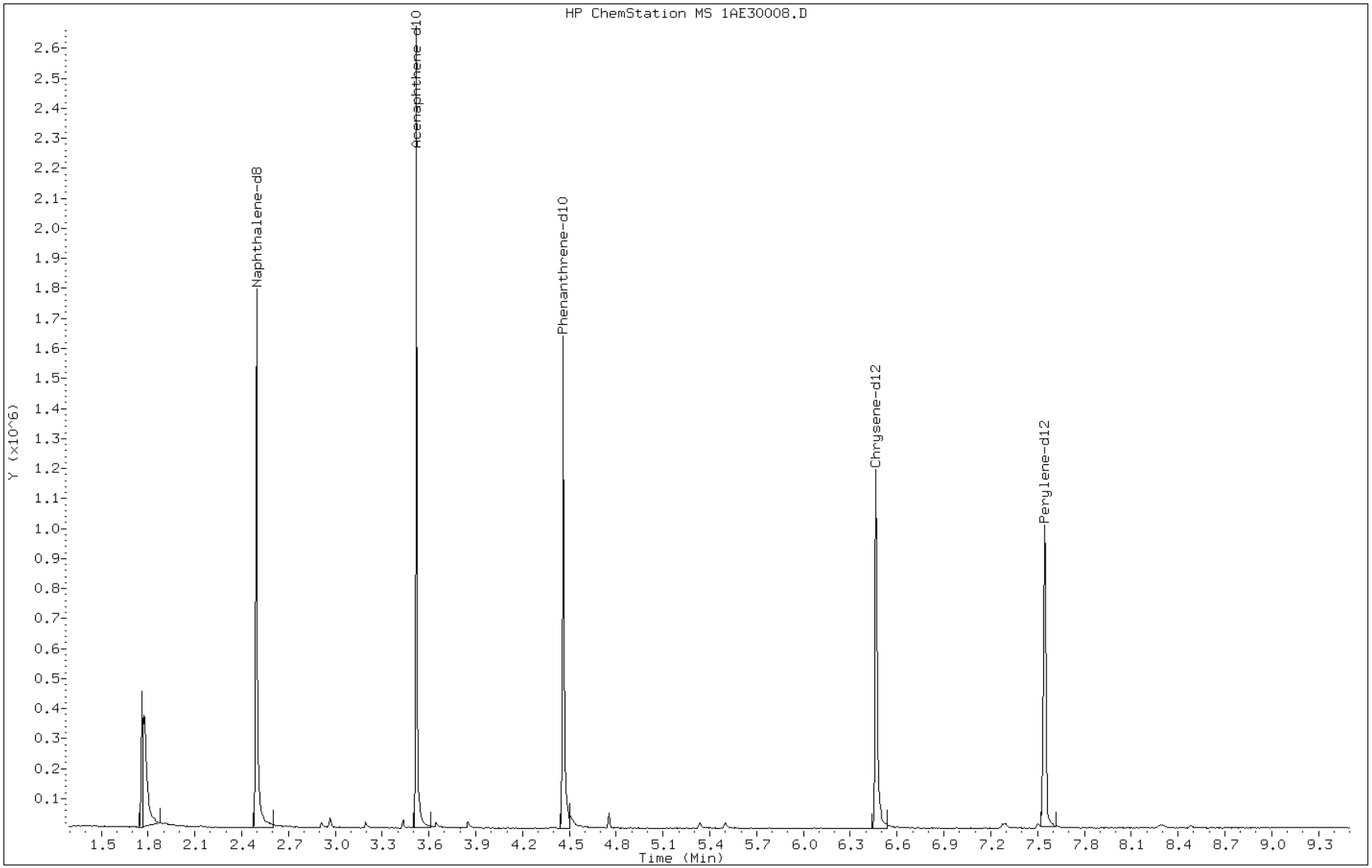
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE30008.D

Date: 30-MAY-2013 15:38

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559455 Operator: TP



Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 06/03/2013

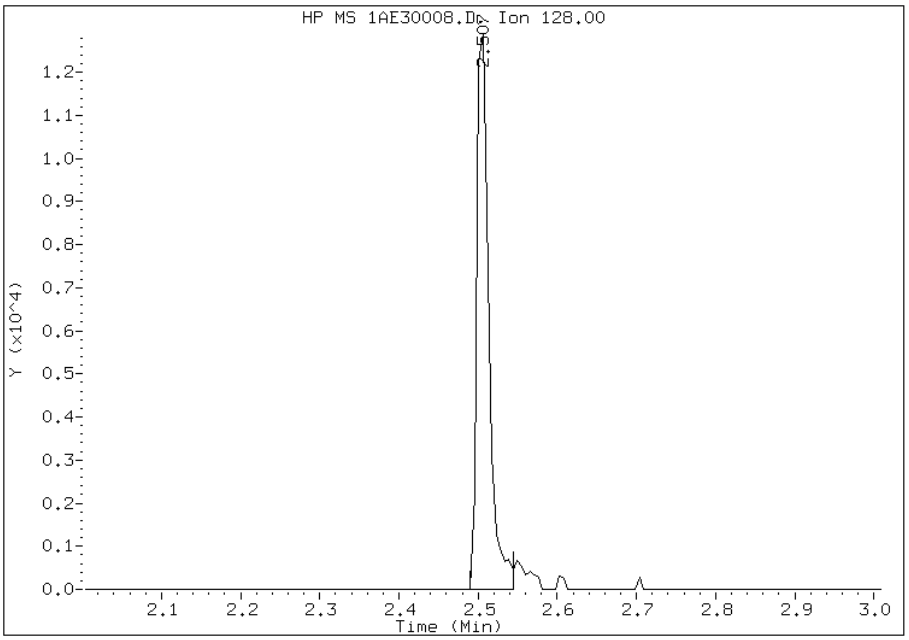
Processing Integration Results

RT: 2.51

Response: 13410

Amount: 1

Conc: 1



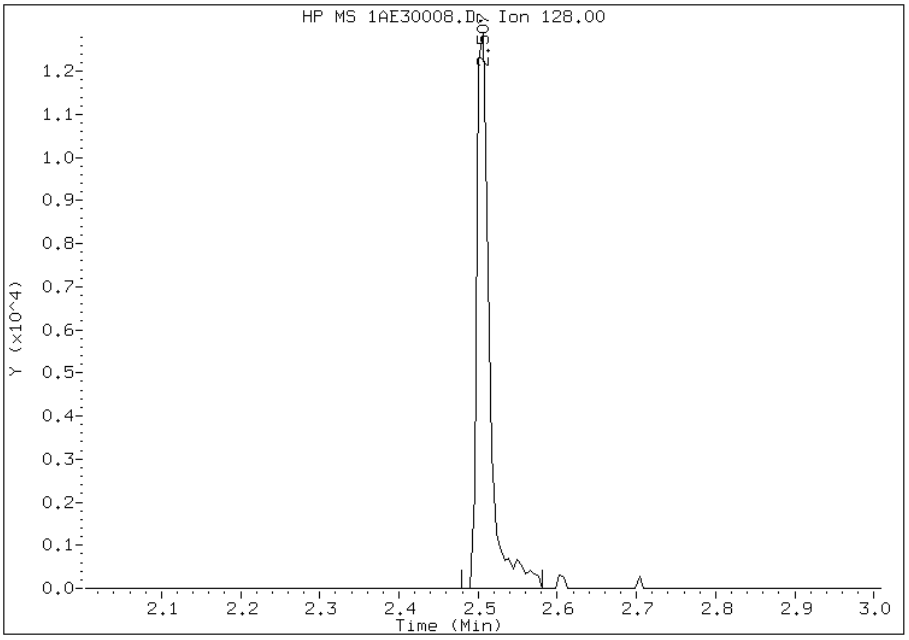
Manual Integration Results

RT: 2.51

Response: 14247

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 06/03/2013

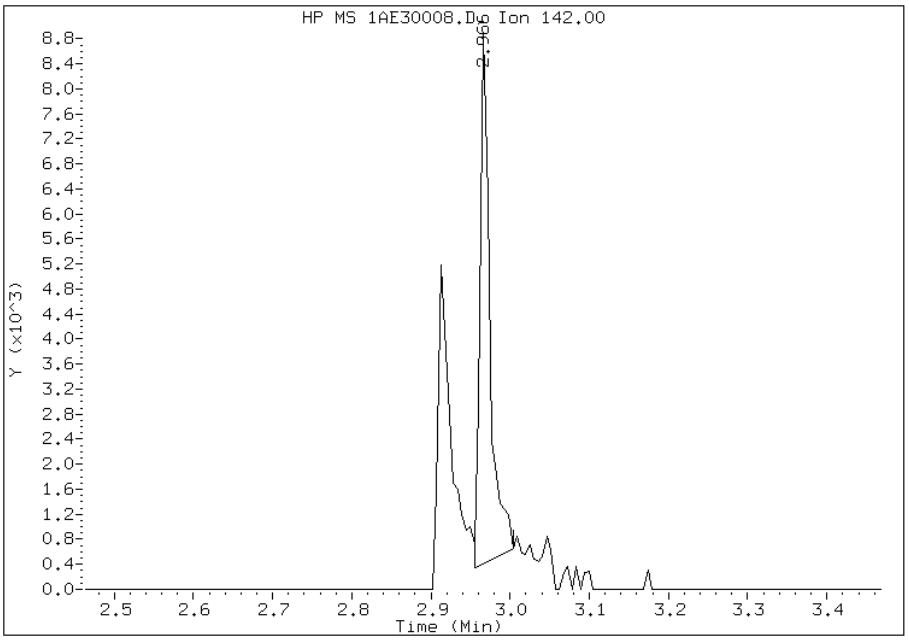
Processing Integration Results

RT: 2.97

Response: 7217

Amount: 1

Conc: 1



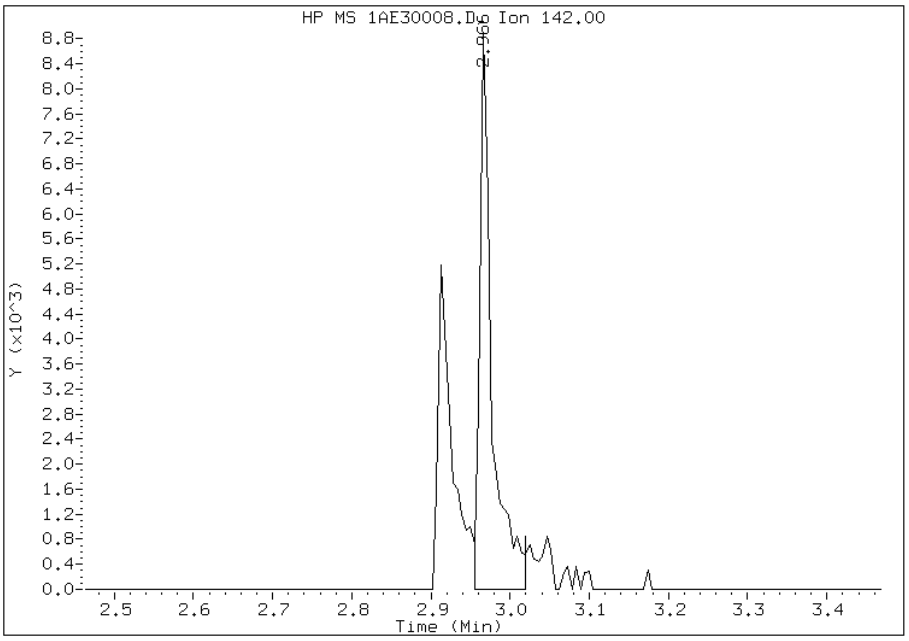
Manual Integration Results

RT: 2.97

Response: 9438

Amount: 1

Conc: 1



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 06/03/2013

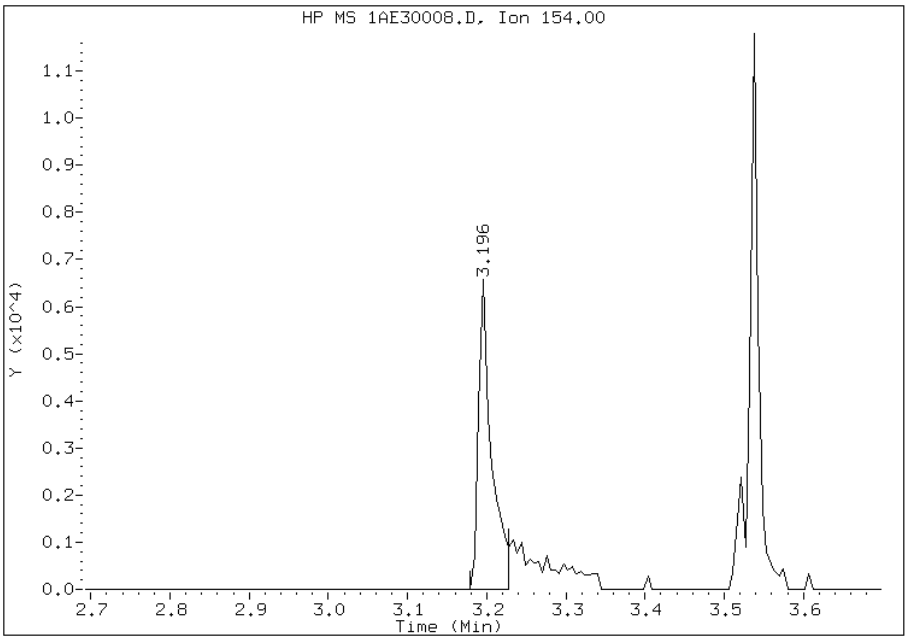
Processing Integration Results

RT: 3.20

Response: 7367

Amount: 1

Conc: 1



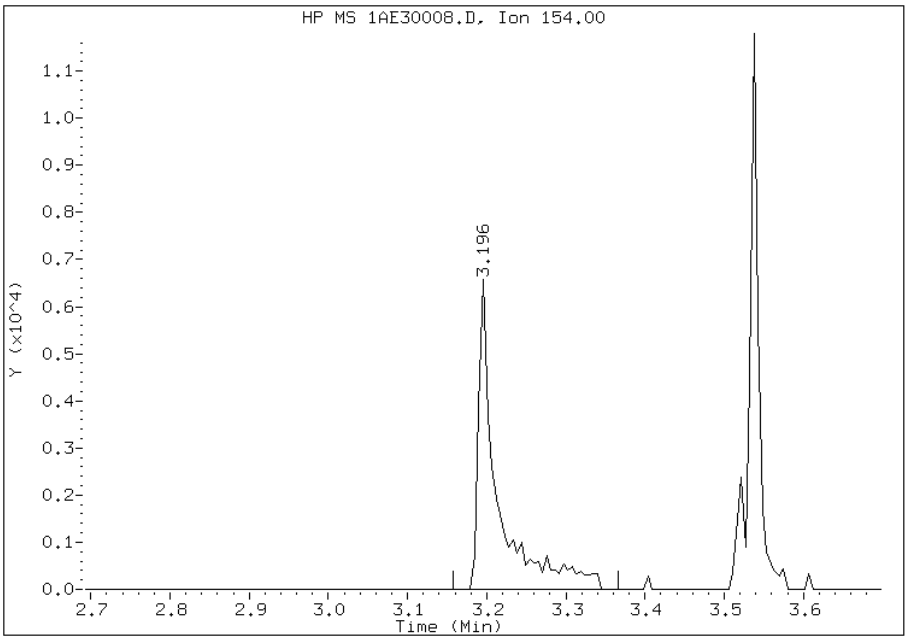
Manual Integration Results

RT: 3.20

Response: 10819

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 06/03/2013

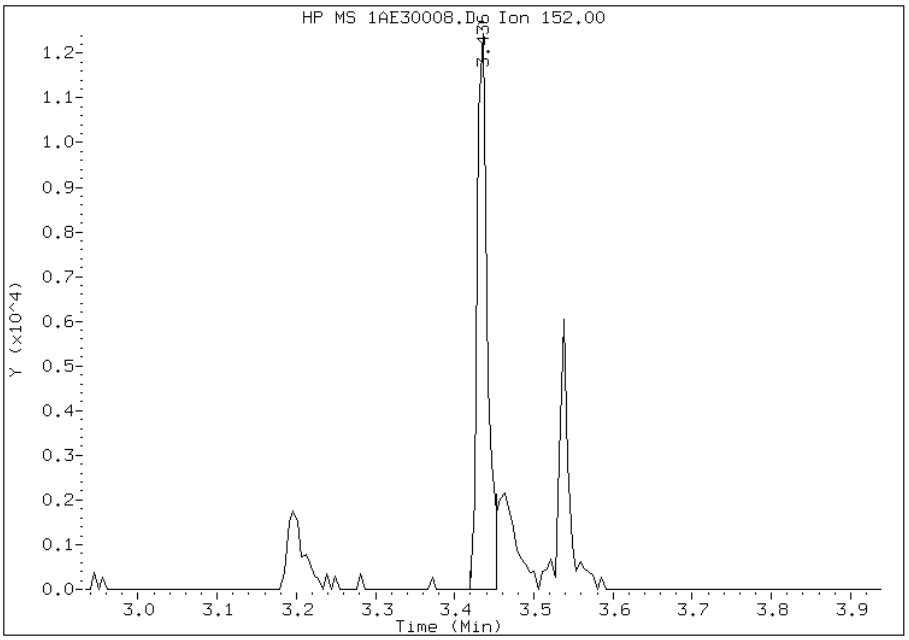
Processing Integration Results

RT: 3.44

Response: 10977

Amount: 2

Conc: 2



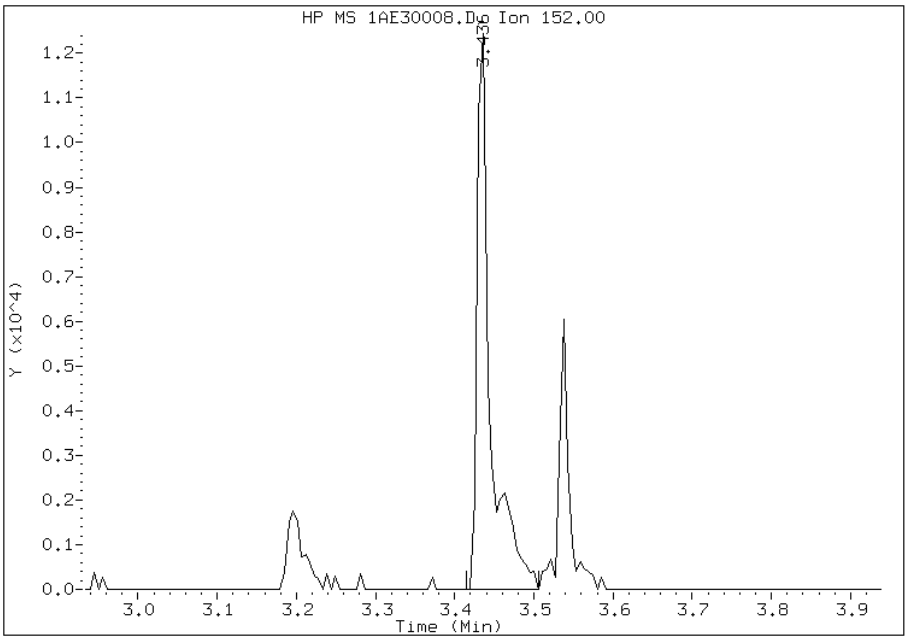
Manual Integration Results

RT: 3.44

Response: 14274

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 06/03/2013

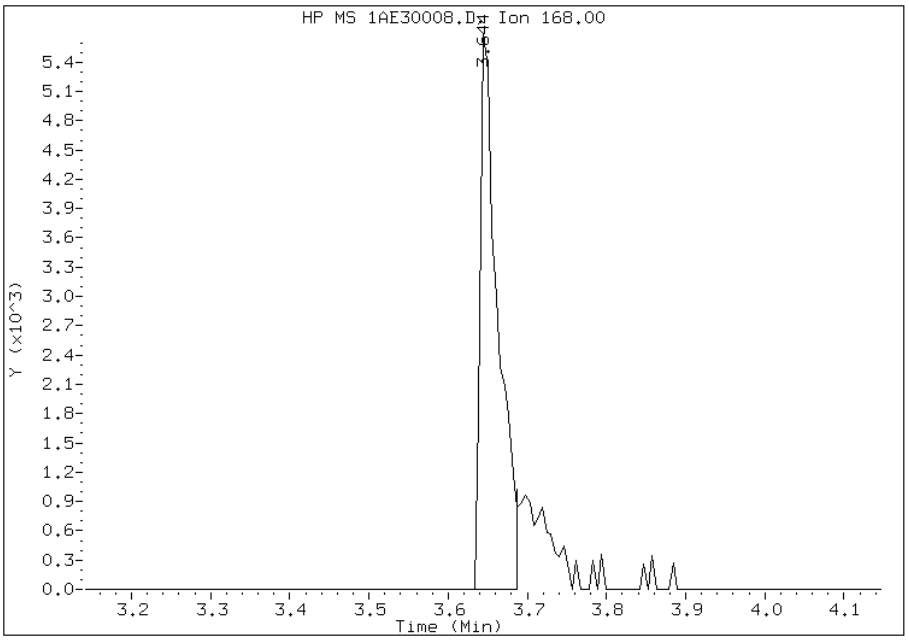
Processing Integration Results

RT: 3.64

Response: 8867

Amount: 2

Conc: 2



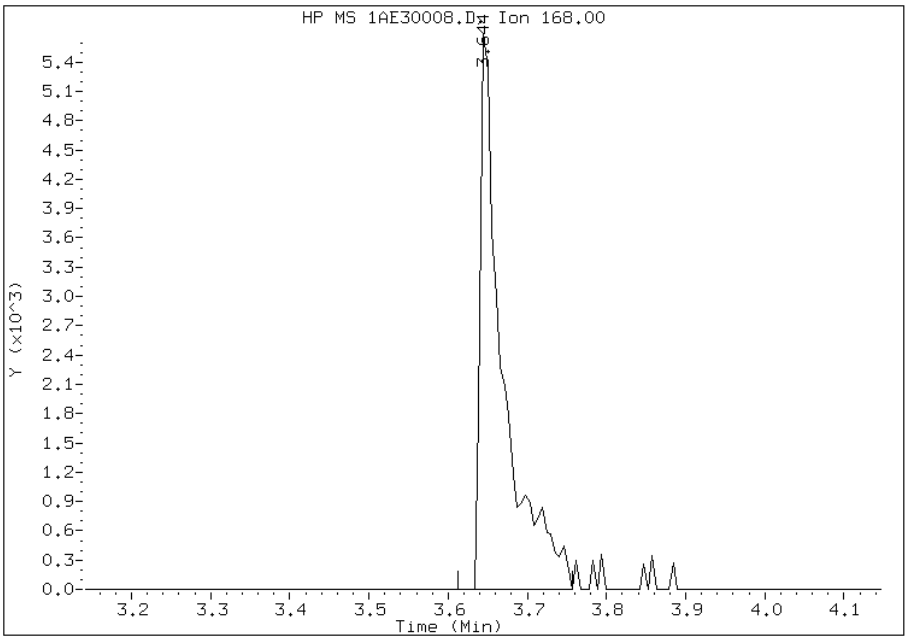
Manual Integration Results

RT: 3.64

Response: 11288

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 06/03/2013

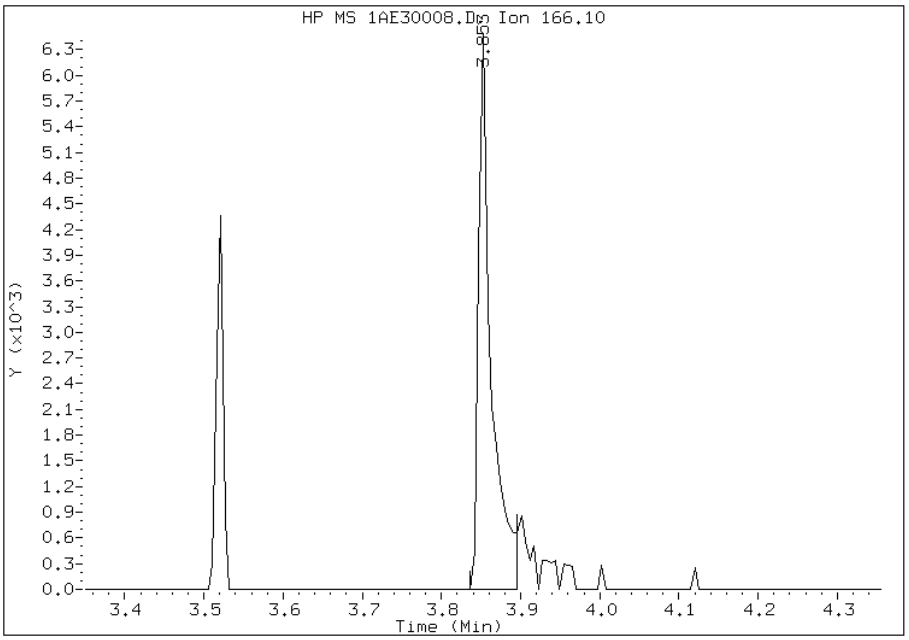
Processing Integration Results

RT: 3.85

Response: 7106

Amount: 2

Conc: 2



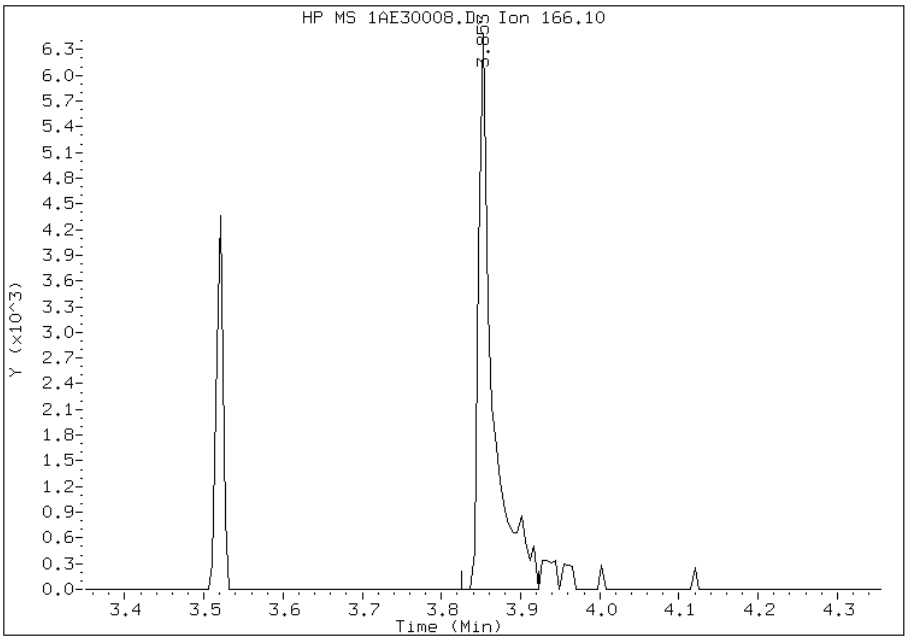
Manual Integration Results

RT: 3.85

Response: 7832

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 06/03/2013

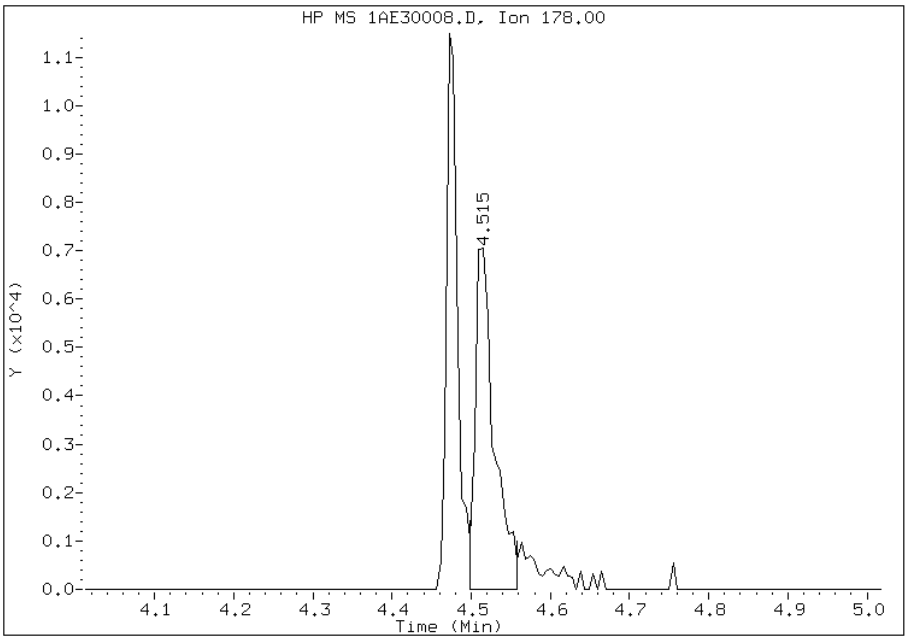
Processing Integration Results

RT: 4.52

Response: 11655

Amount: 1

Conc: 1



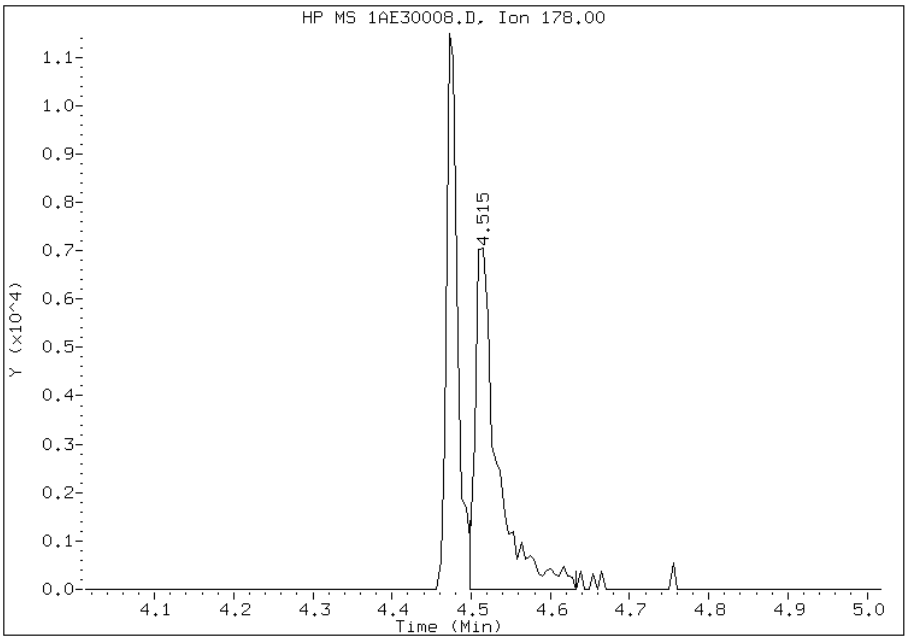
Manual Integration Results

RT: 4.52

Response: 13529

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 06/03/2013

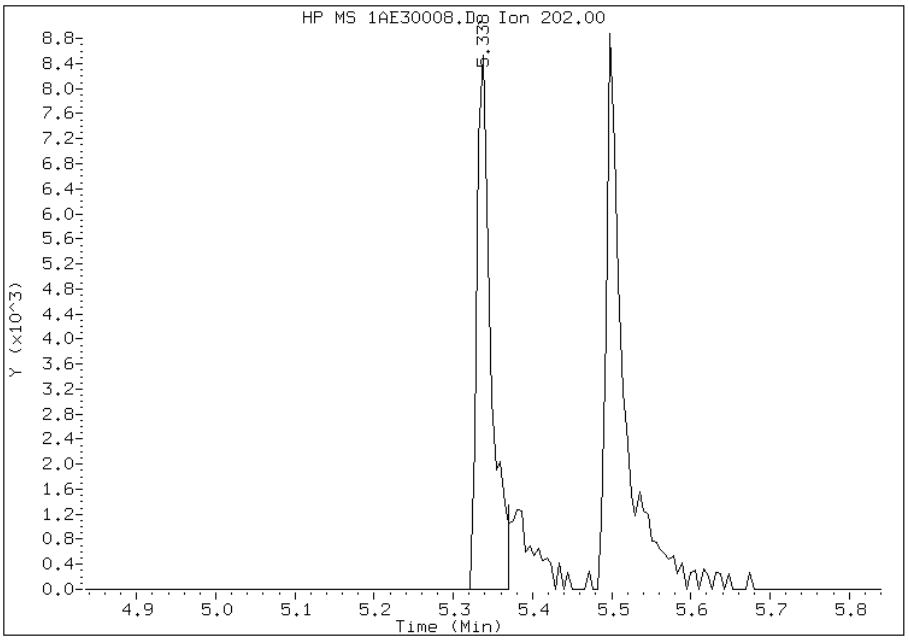
Processing Integration Results

RT: 5.34

Response: 10517

Amount: 1

Conc: 1



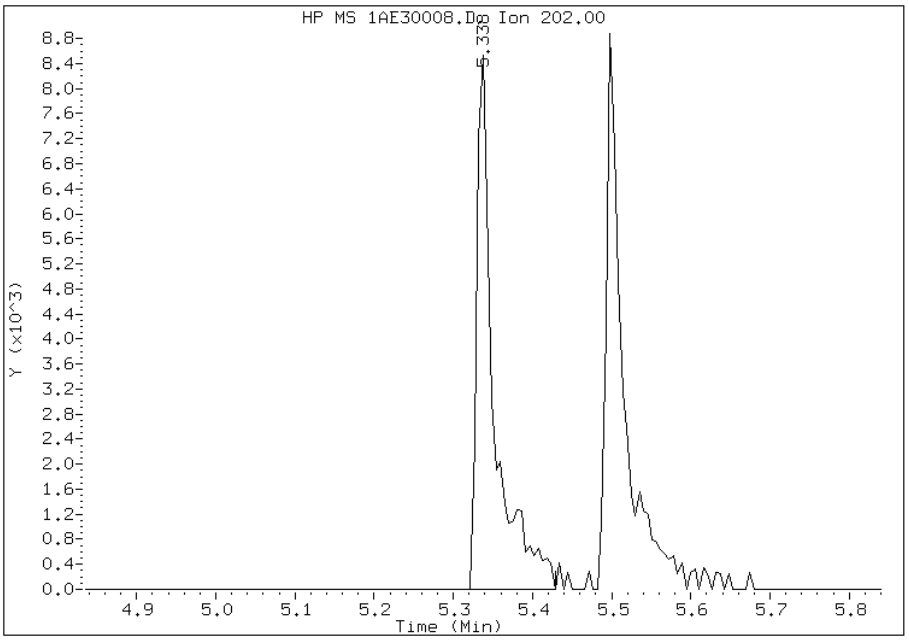
Manual Integration Results

RT: 5.34

Response: 12939

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 06/03/2013

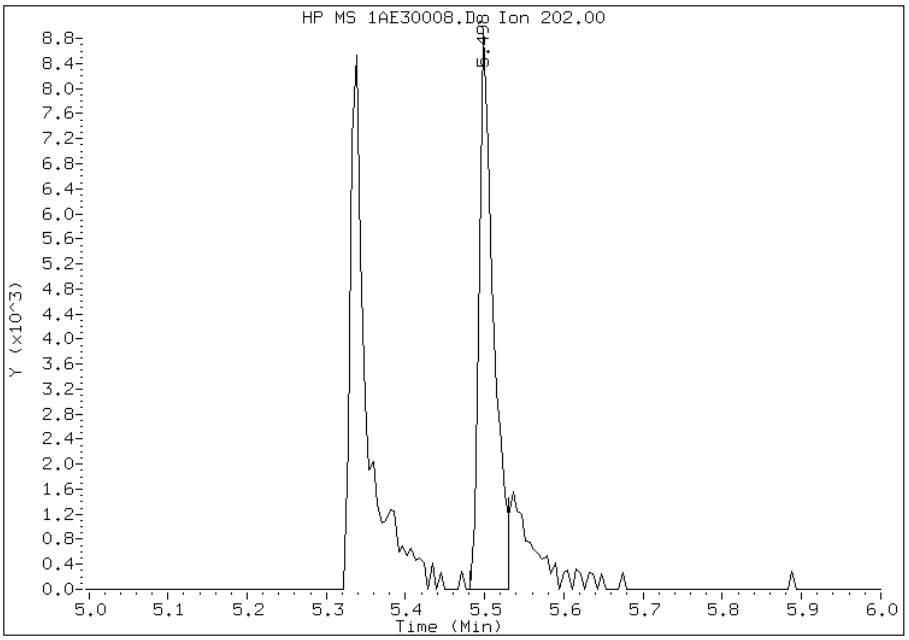
Processing Integration Results

RT: 5.50

Response: 11080

Amount: 1

Conc: 1



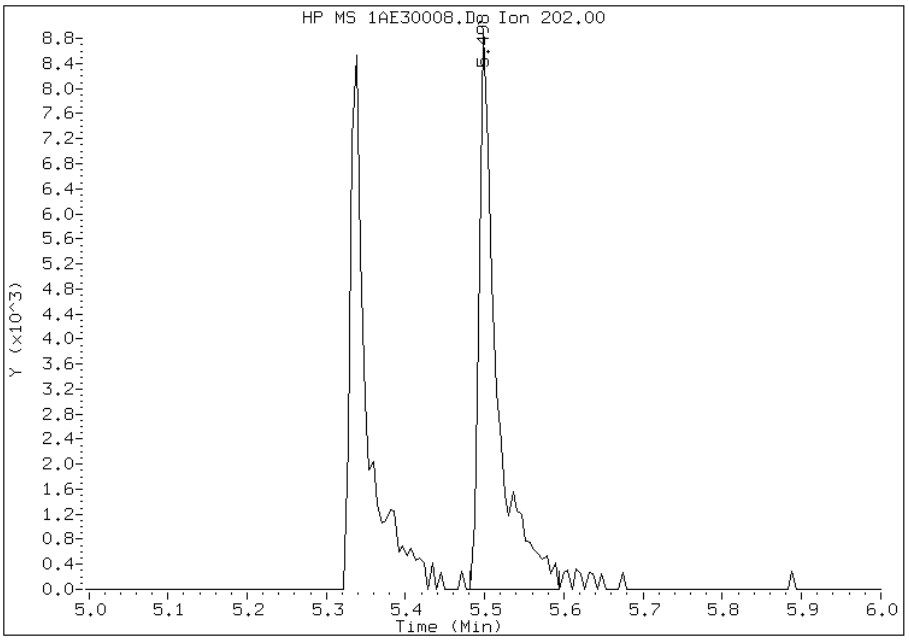
Manual Integration Results

RT: 5.50

Response: 13782

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/03/2013

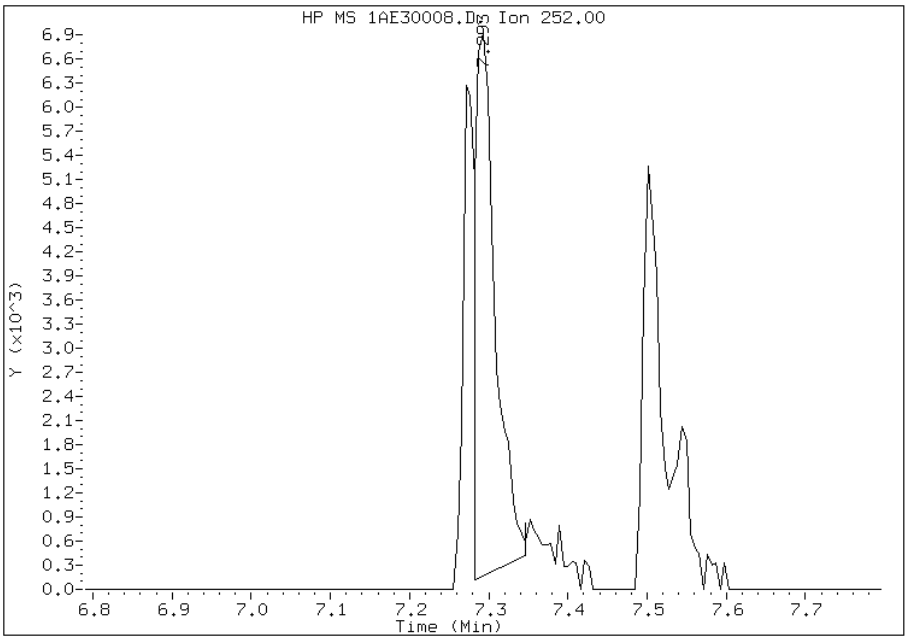
Processing Integration Results

RT: 7.29

Response: 12132

Amount: 1

Conc: 1



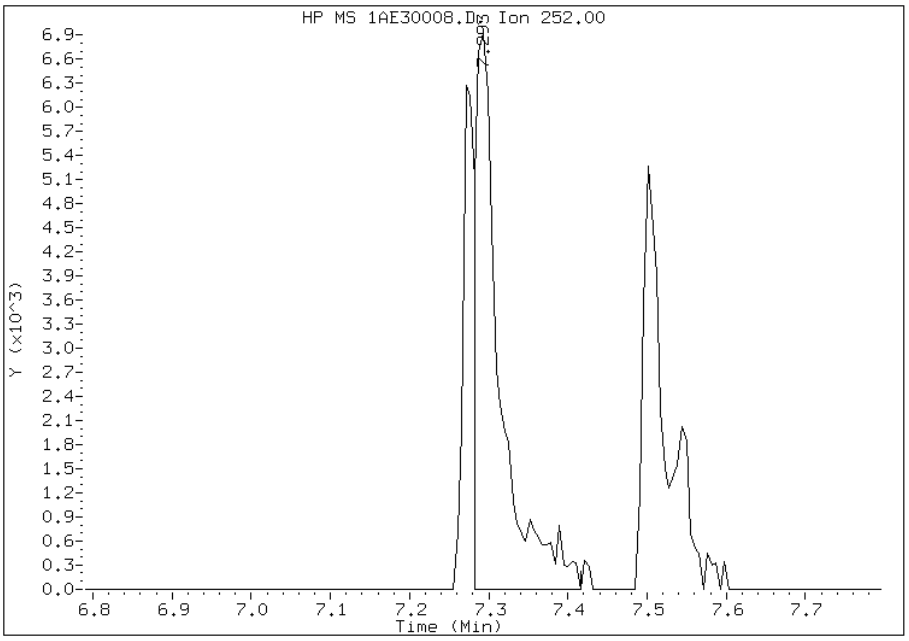
Manual Integration Results

RT: 7.29

Response: 15322

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 23 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 06/03/2013

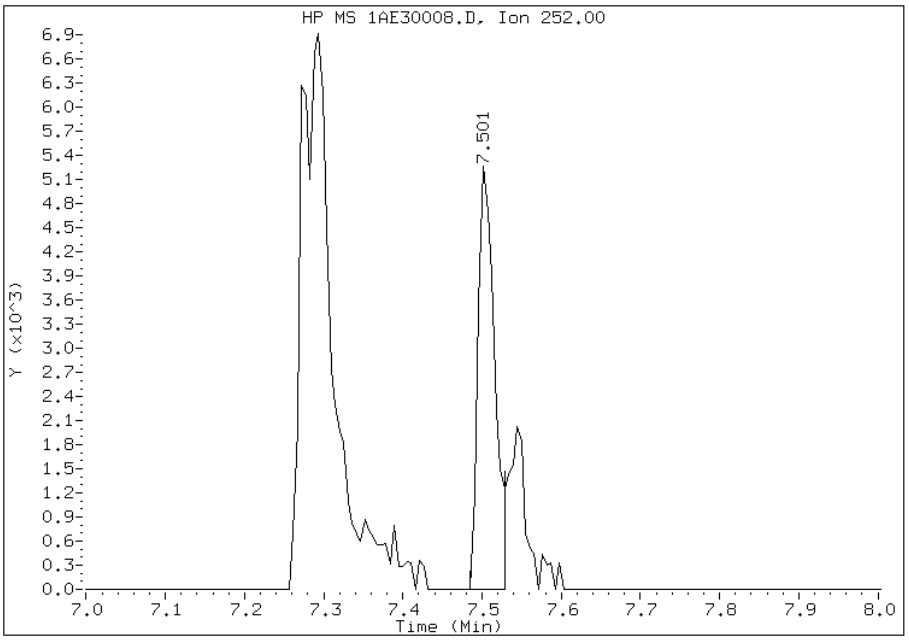
Processing Integration Results

RT: 7.50

Response: 7560

Amount: 1

Conc: 1



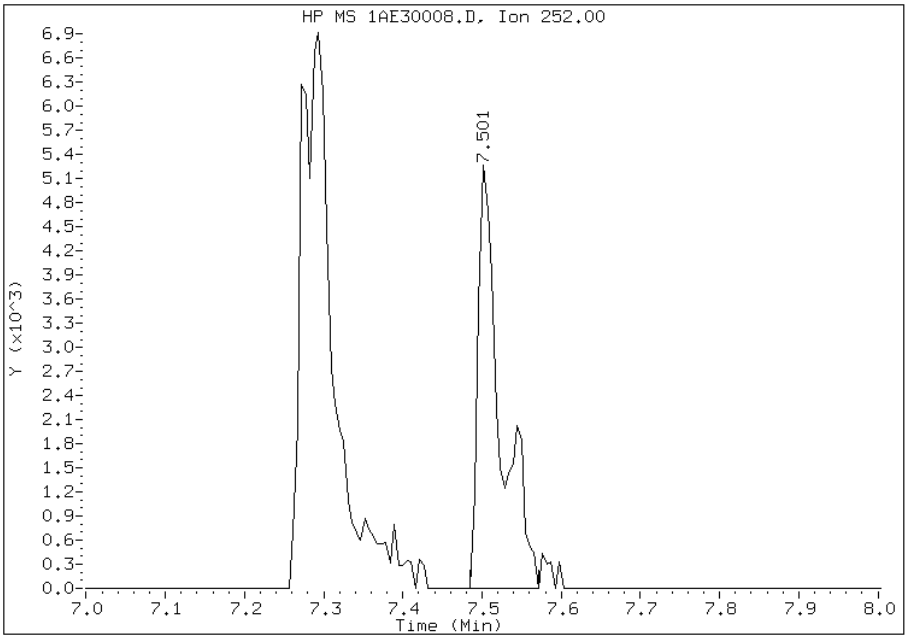
Manual Integration Results

RT: 7.50

Response: 10280

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

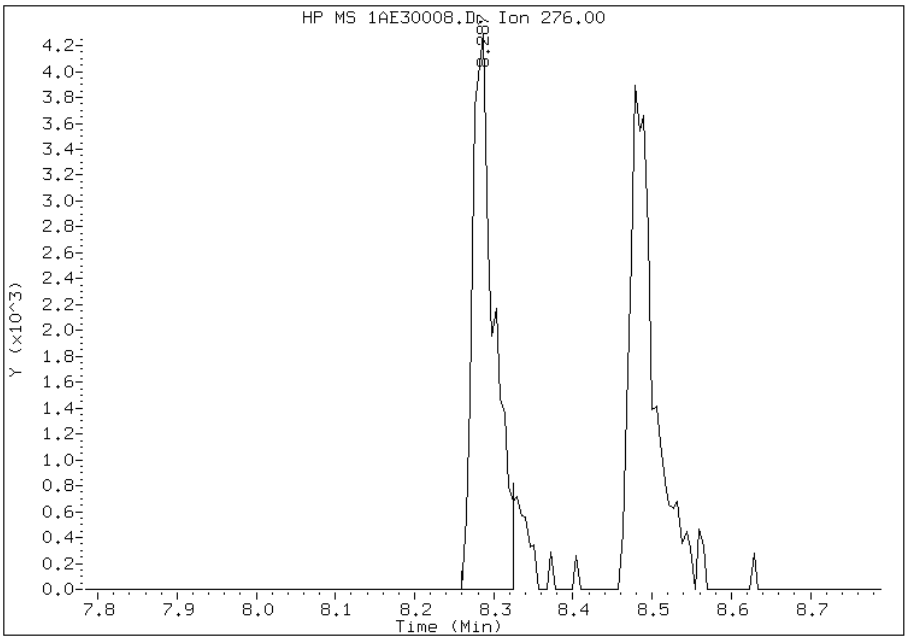
Processing Integration Results

RT: 8.29

Response: 8052

Amount: 2

Conc: 2



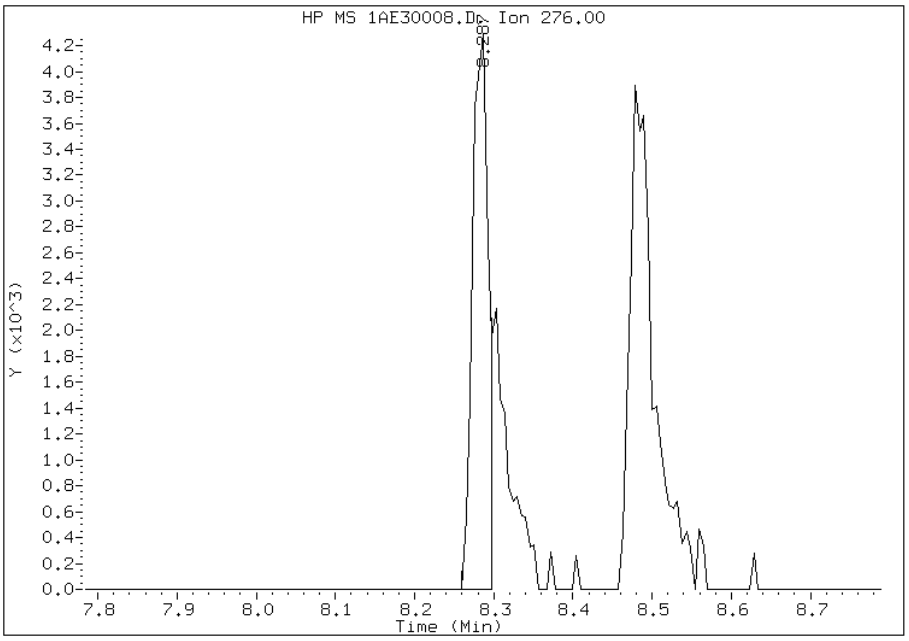
Manual Integration Results

RT: 8.29

Response: 5971

Amount: 1

Conc: 1



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30008.D
Inj. Date and Time: 30-MAY-2013 15:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

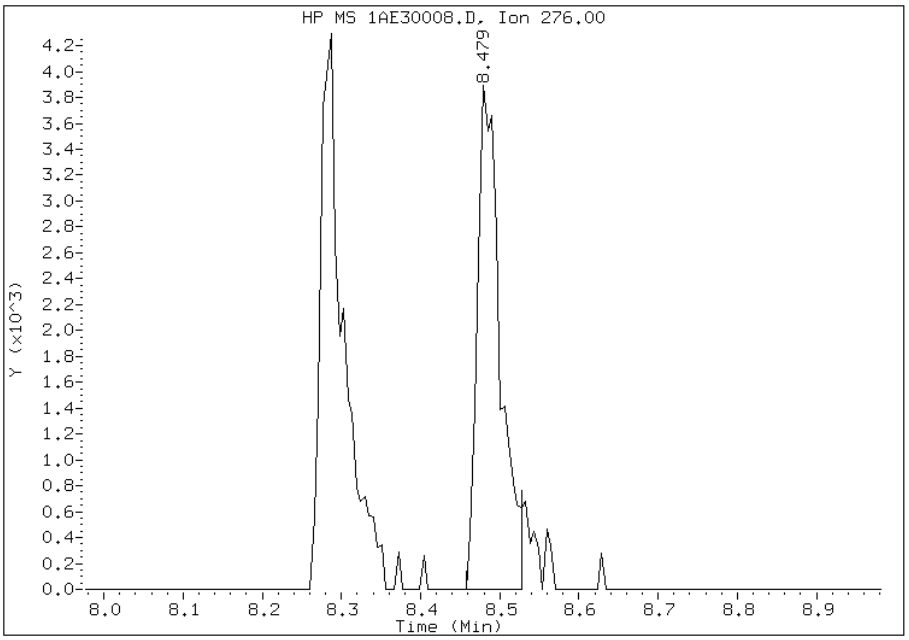
Processing Integration Results

RT: 8.48

Response: 7784

Amount: 1

Conc: 1



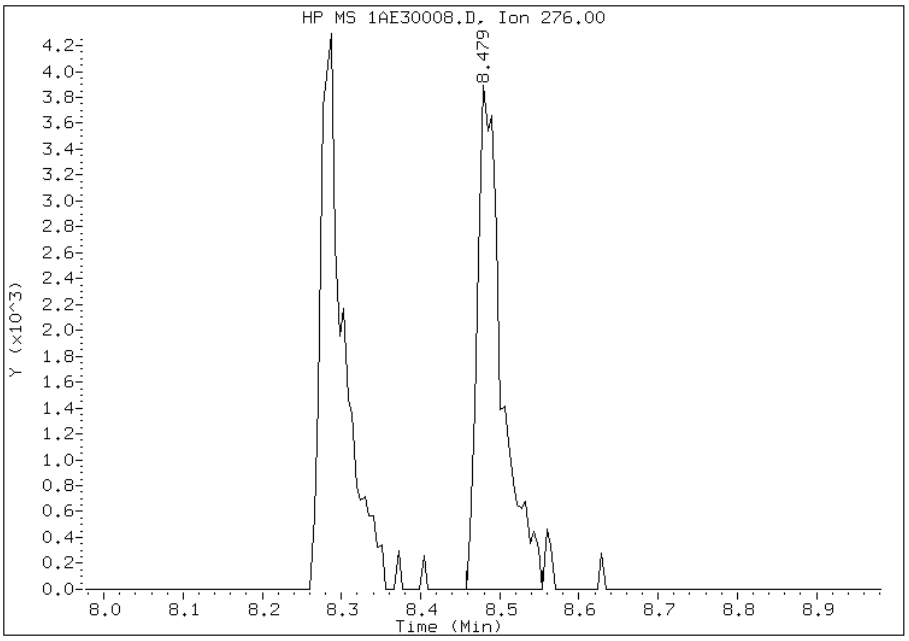
Manual Integration Results

RT: 8.48

Response: 8363

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:12
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30009.D
Lab Smp Id: IC-1559457
Inj Date : 30-MAY-2013 15:53
Operator : TP Inst ID: BSMA5973.i
Smp Info : IC-1559457
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 15:38 Cal File: 1AE30008.D
Als bottle: 6 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	2.496	2.493	(1.000)	703898	40.0000	
*	7 Acenaphthene-d10	164	3.521	3.524	(1.000)	372050	40.0000	
*	11 Phenanthrene-d10	188	4.462	4.464	(1.000)	576871	40.0000	
$	15 o-Terphenyl	230	4.755	4.758	(1.066)	36445	5.00000	4.6285
*	19 Chrysene-d12	240	6.465	6.473	(1.000)	465500	40.0000	
*	24 Perylene-d12	264	7.549	7.552	(1.000)	453754	40.0000	
	2 Naphthalene	128	2.506	2.503	(1.004)	72755	5.00000	4.7986
	3 2-Methylnaphthalene	141	2.912	2.915	(1.167)	31104	5.00000	4.0705
	4 1-Methylnaphthalene	142	2.966	2.968	(1.188)	55947	5.00000	5.2737(M)
	5 1,1'-Biphenyl	154	3.190	3.193	(1.278)	56900	5.00000	5.1143(M)
	6 Acenaphthylene	152	3.431	3.433	(0.974)	69448	5.00000	5.1362(M)
	8 Acenaphthene	154	3.537	3.540	(1.005)	38374	5.00000	4.4720
	9 Dibenzofuran	168	3.644	3.647	(1.035)	58203	5.00000	4.8204(M)
	10 Fluorene	166	3.853	3.850	(1.094)	43971	5.00000	4.9575(M)
	12 Phenanthrene	178	4.472	4.480	(1.002)	53771	5.00000	4.3492
	13 Anthracene	178	4.510	4.512	(1.011)	74490	5.00000	5.4522(M)
	16 Fluoranthene	202	5.332	5.340	(1.195)	63089	5.00000	4.3022(M)
	17 Pyrene	202	5.498	5.500	(0.850)	72282	5.00000	5.3752(M)
	18 Benzo(a)anthracene	228	6.460	6.467	(0.999)	53768	5.00000	4.2996
	20 Chrysene	228	6.486	6.489	(1.003)	67856	5.00000	4.9572(M)
	21 Benzo(b)fluoranthene	252	7.272	7.279	(0.963)	44371	5.00000	4.6375
	22 Benzo(k)fluoranthene	252	7.293	7.301	(0.966)	76772	5.00000	4.8338(M)
	23 Benzo(a)pyrene	252	7.501	7.509	(0.994)	47097	5.00000	4.4124
	25 Indeno(1,2,3-cd)pyrene	276	8.281	8.294	(1.097)	41038	5.00000	5.1264(M)
	26 Dibenzo(a,h)anthracene	278	8.308	8.321	(1.100)	45447	5.00000	4.4119(M)
	27 Benzo(g,h,i)perylene	276	8.484	8.503	(1.124)	50880	5.00000	5.0332(M)

QC Flag Legend

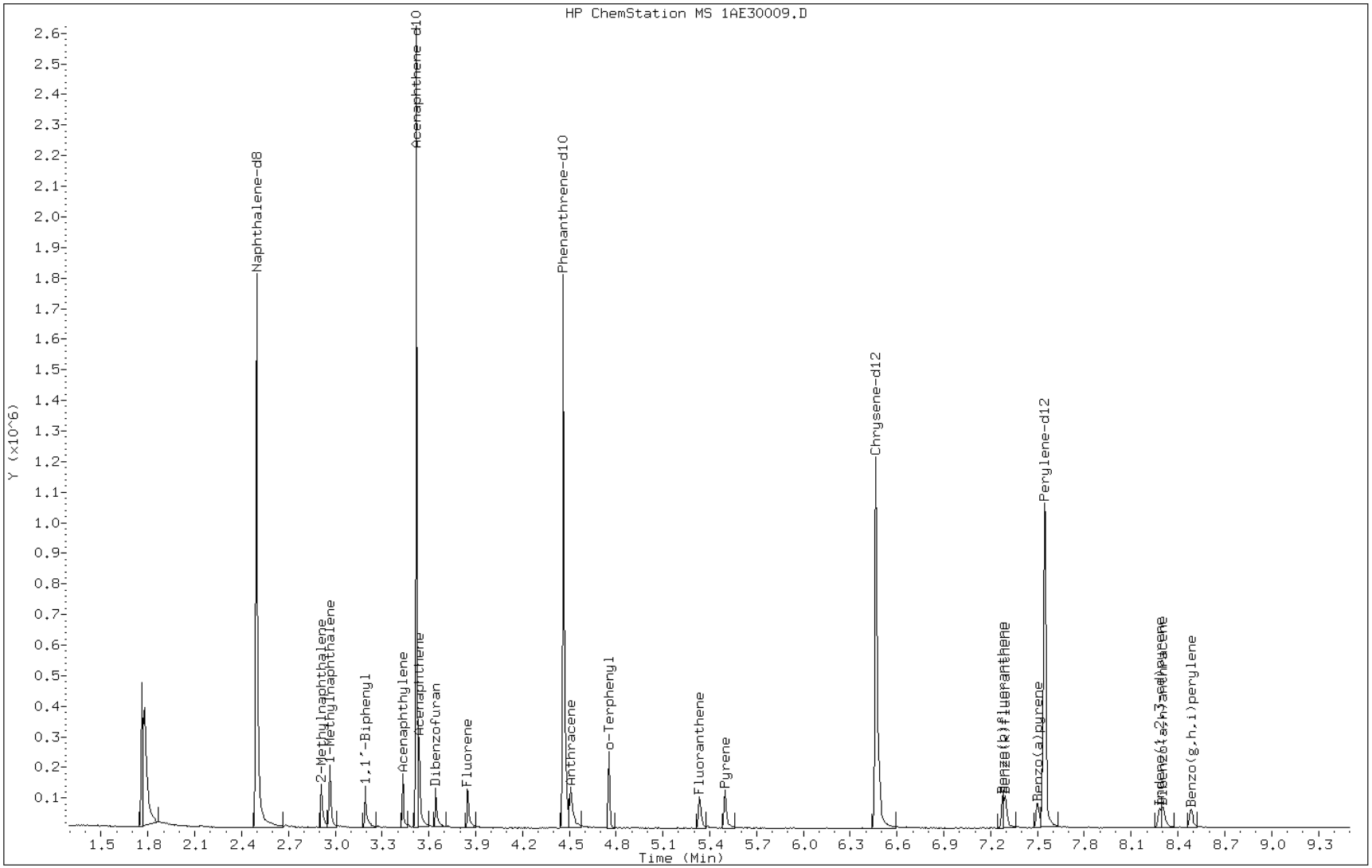
M - Compound response manually integrated.

Data File: 1AE30009.D

Date: 30-MAY-2013 15:53

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559457 Operator: TP



Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 06/03/2013

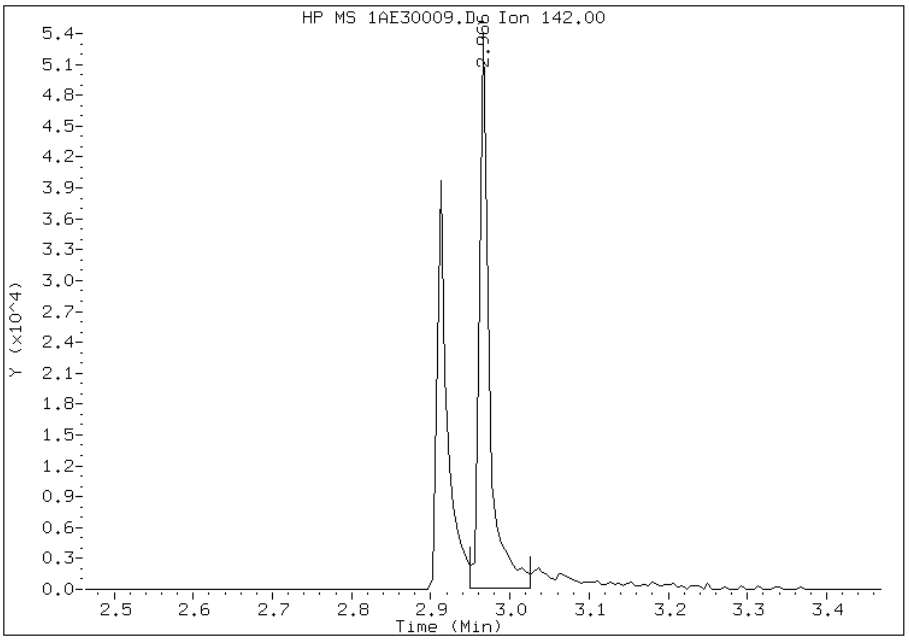
Processing Integration Results

RT: 2.97

Response: 46589

Amount: 5

Conc: 5



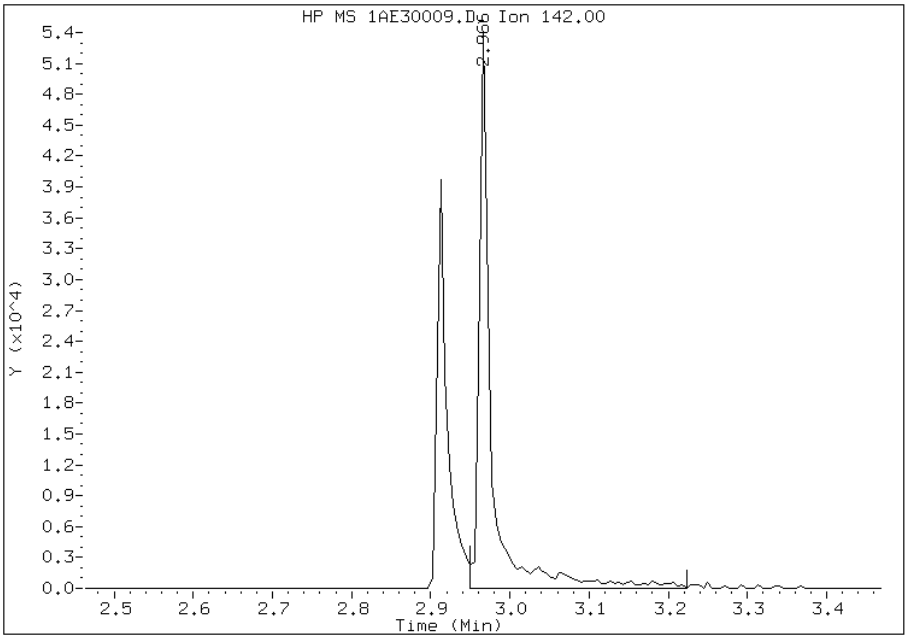
Manual Integration Results

RT: 2.97

Response: 55947

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 06/03/2013

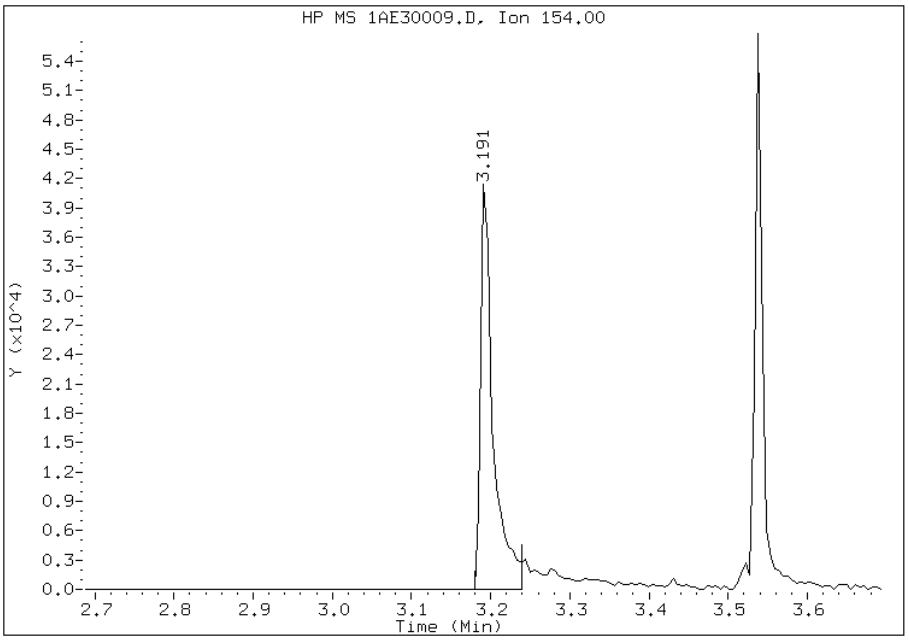
Processing Integration Results

RT: 3.19

Response: 44631

Amount: 4

Conc: 4



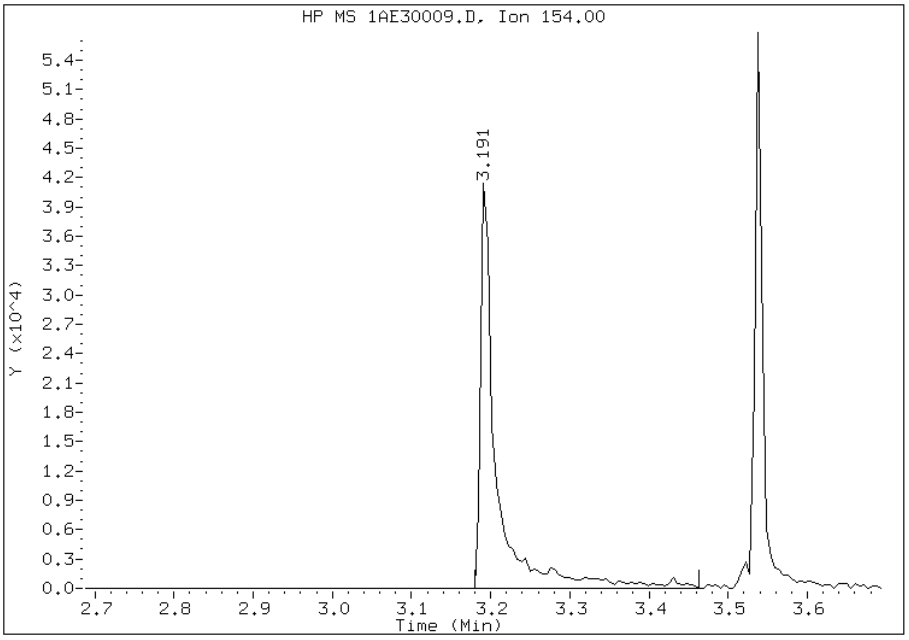
Manual Integration Results

RT: 3.19

Response: 56900

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 06/03/2013

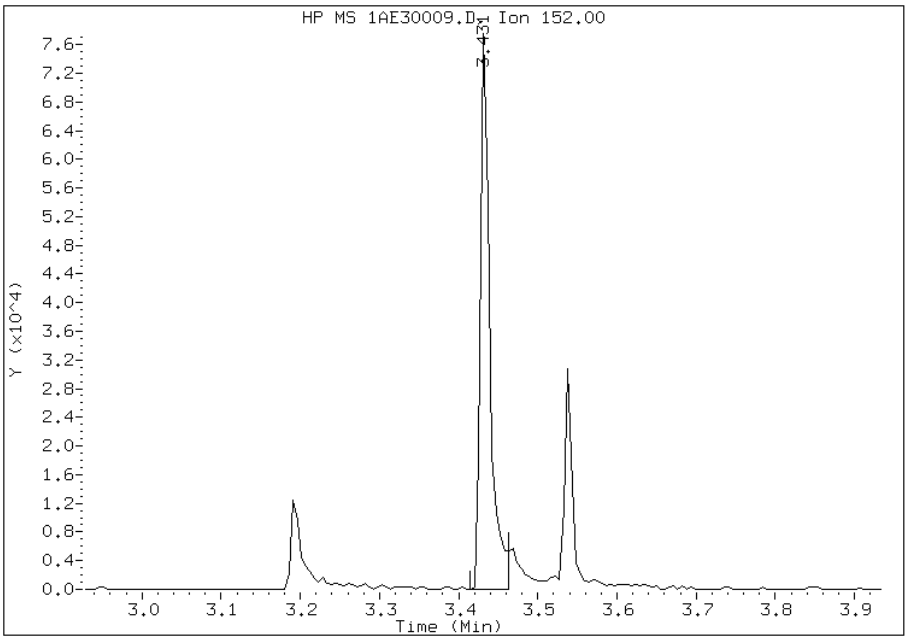
Processing Integration Results

RT: 3.43

Response: 63322

Amount: 5

Conc: 5



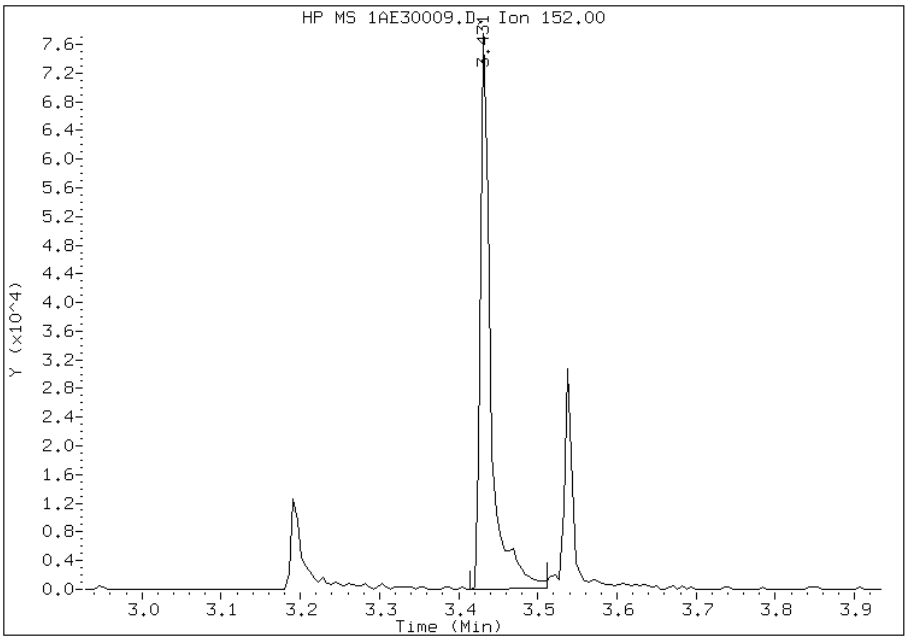
Manual Integration Results

RT: 3.43

Response: 69448

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 06/03/2013

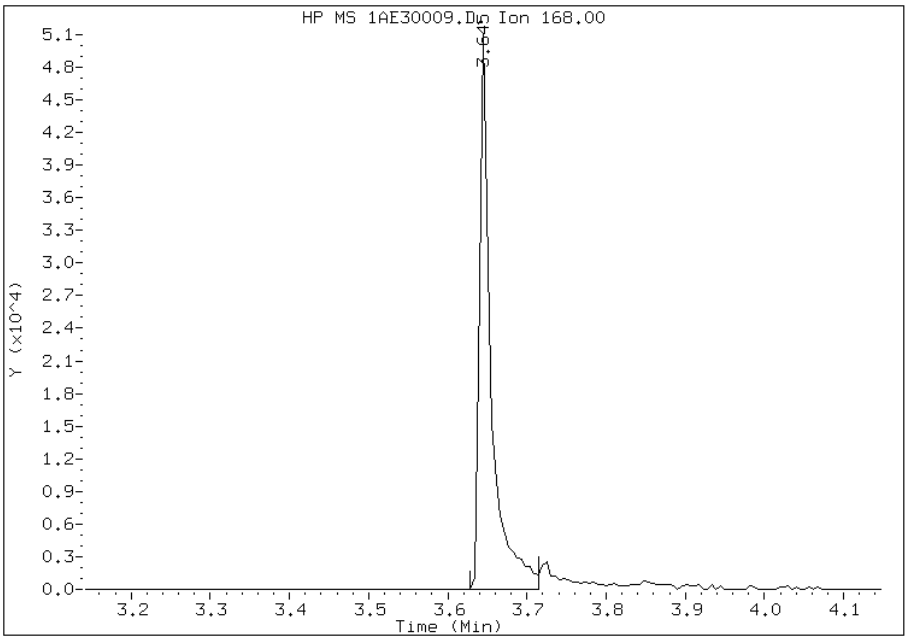
Processing Integration Results

RT: 3.64

Response: 51106

Amount: 5

Conc: 5



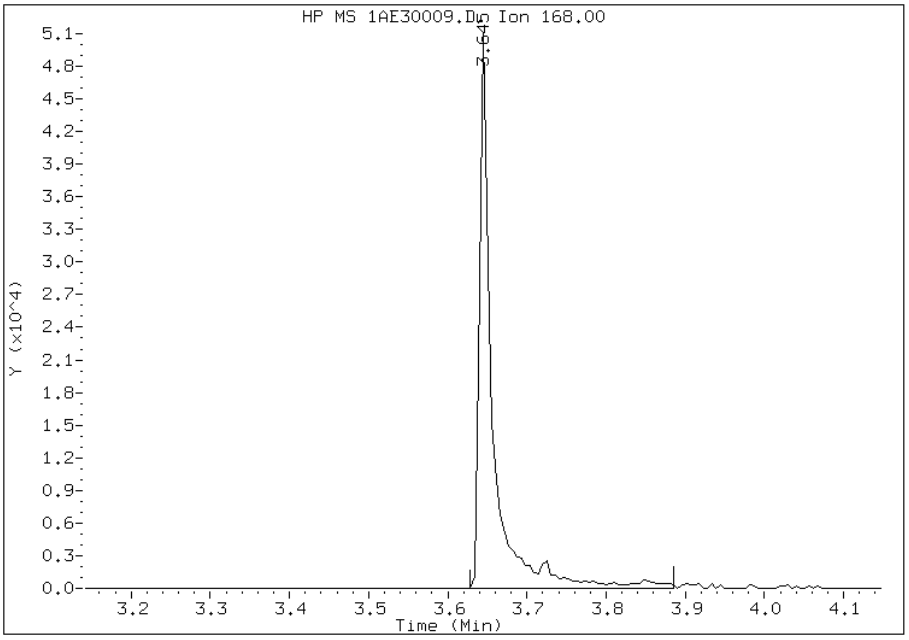
Manual Integration Results

RT: 3.64

Response: 58203

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 06/03/2013

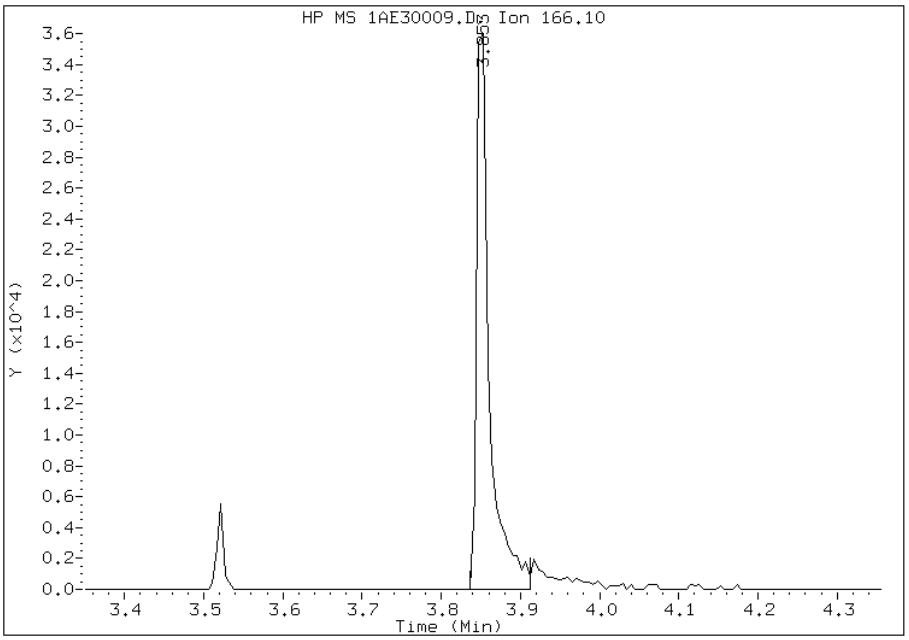
Processing Integration Results

RT: 3.85

Response: 39971

Amount: 5

Conc: 5



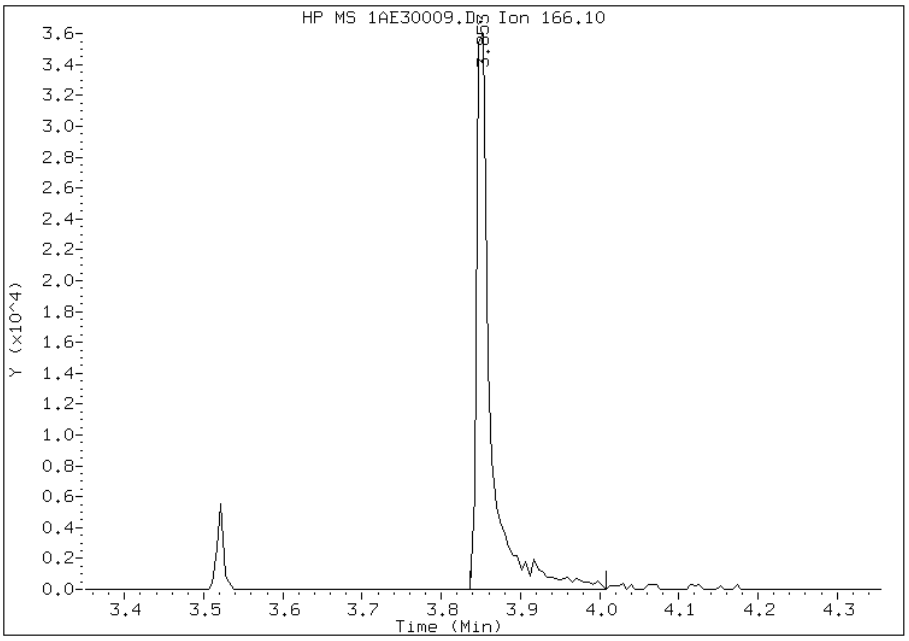
Manual Integration Results

RT: 3.85

Response: 43971

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 06/03/2013

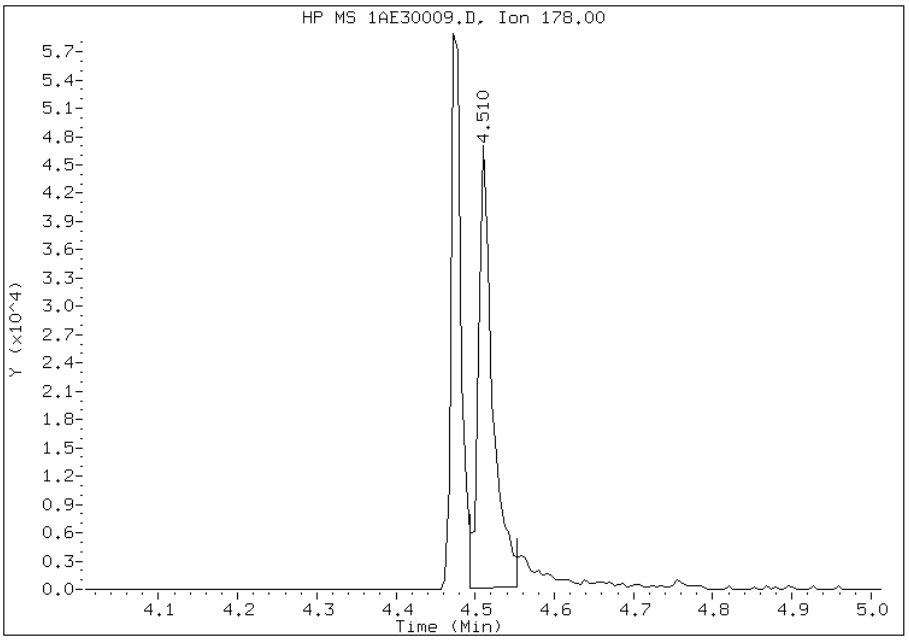
Processing Integration Results

RT: 4.51

Response: 57980

Amount: 4

Conc: 4



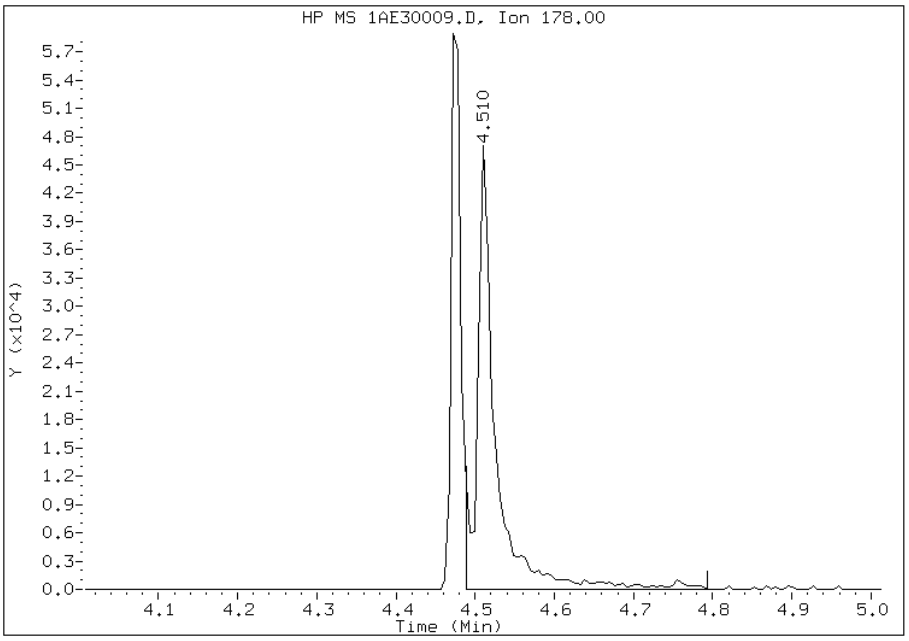
Manual Integration Results

RT: 4.51

Response: 74490

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 06/03/2013

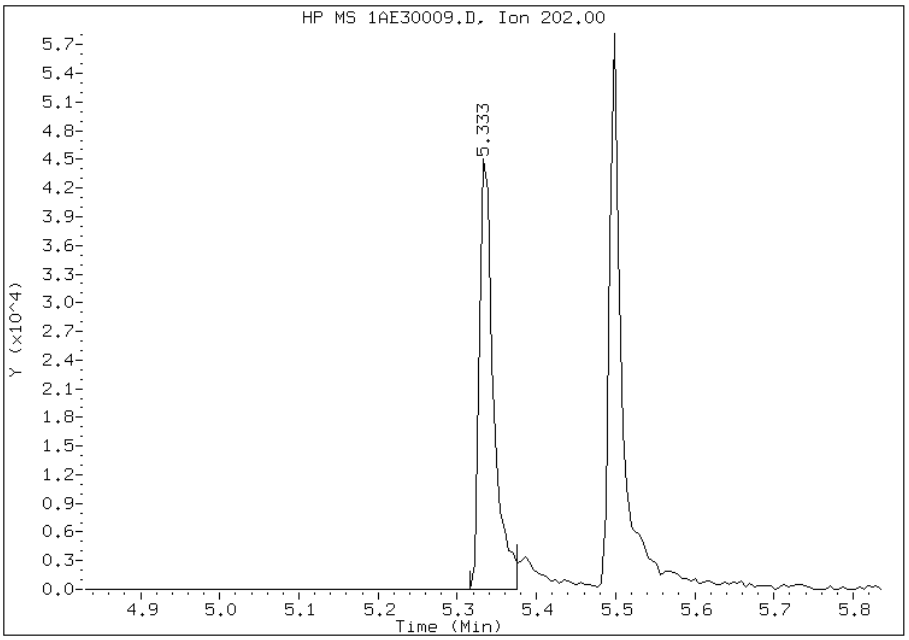
Processing Integration Results

RT: 5.33

Response: 55376

Amount: 4

Conc: 4



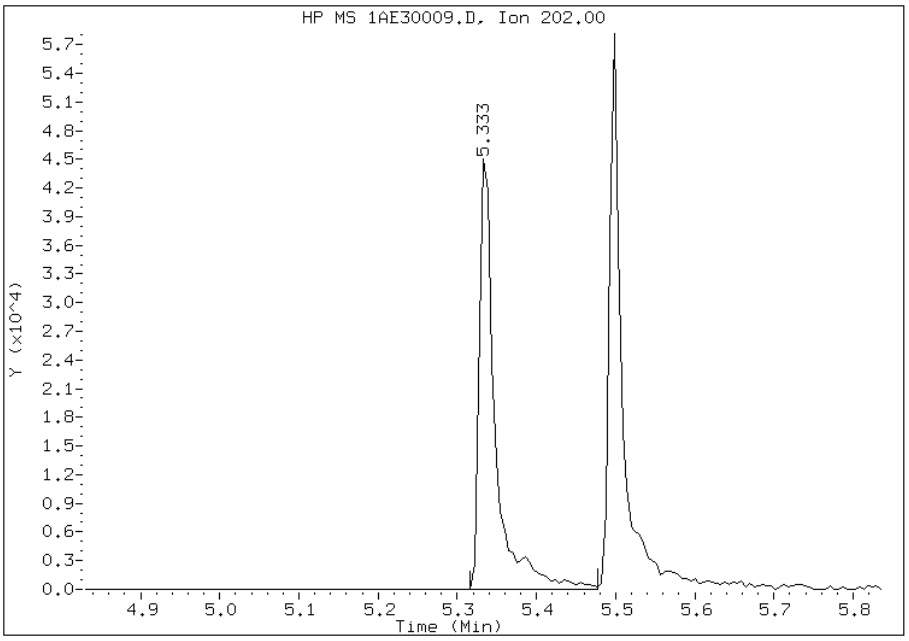
Manual Integration Results

RT: 5.33

Response: 63089

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 06/03/2013

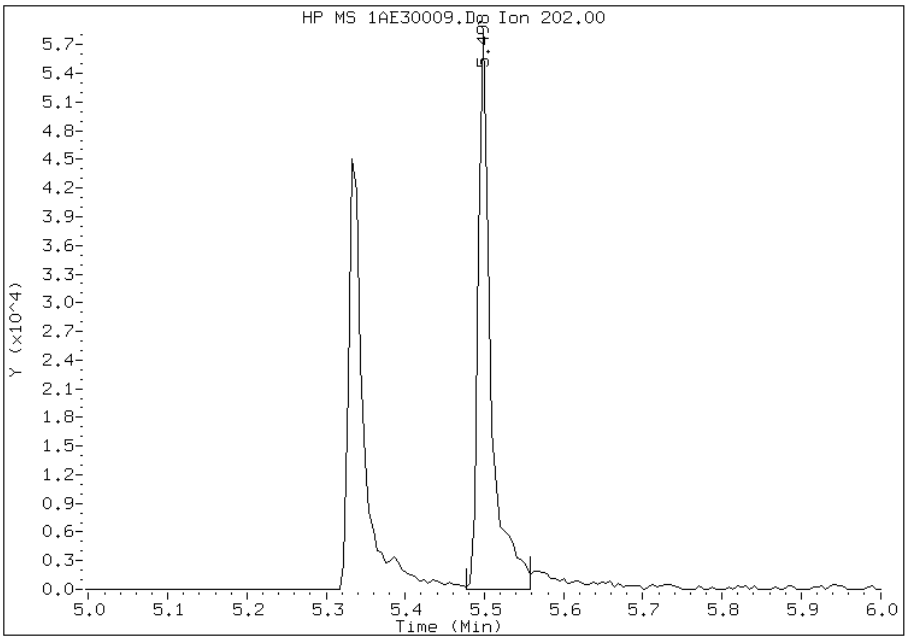
Processing Integration Results

RT: 5.50

Response: 64255

Amount: 5

Conc: 5



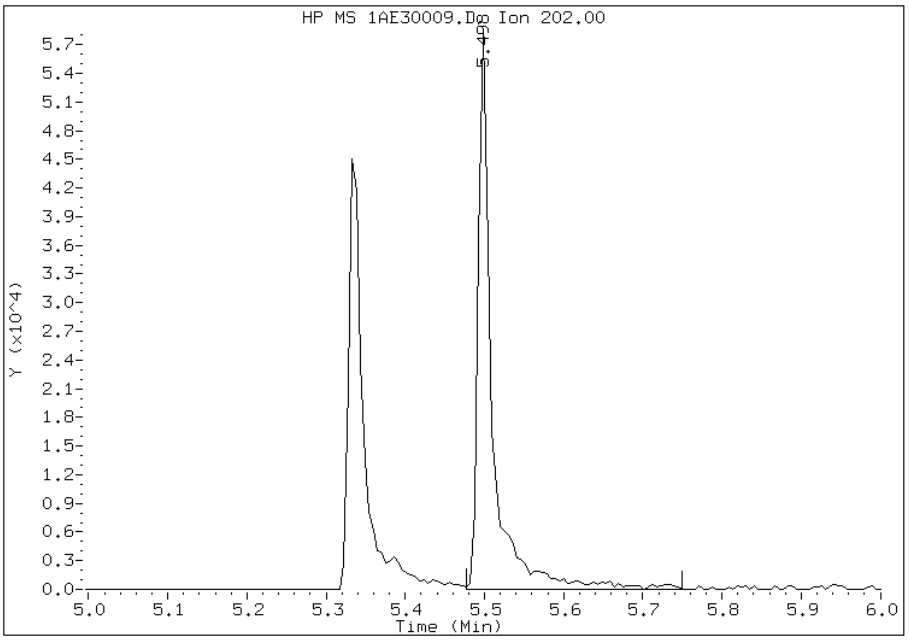
Manual Integration Results

RT: 5.50

Response: 72282

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/03/2013

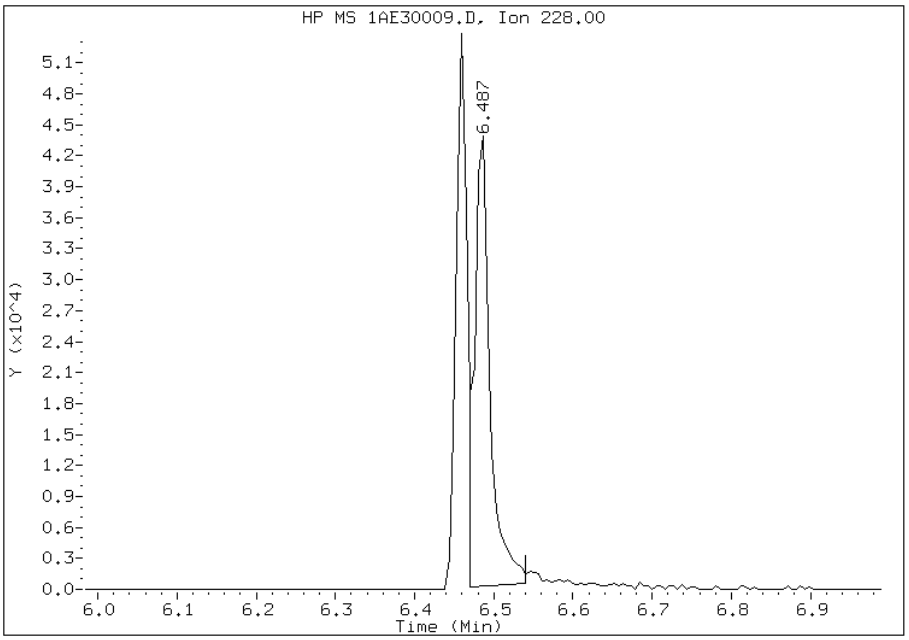
Processing Integration Results

RT: 6.49

Response: 60129

Amount: 5

Conc: 5



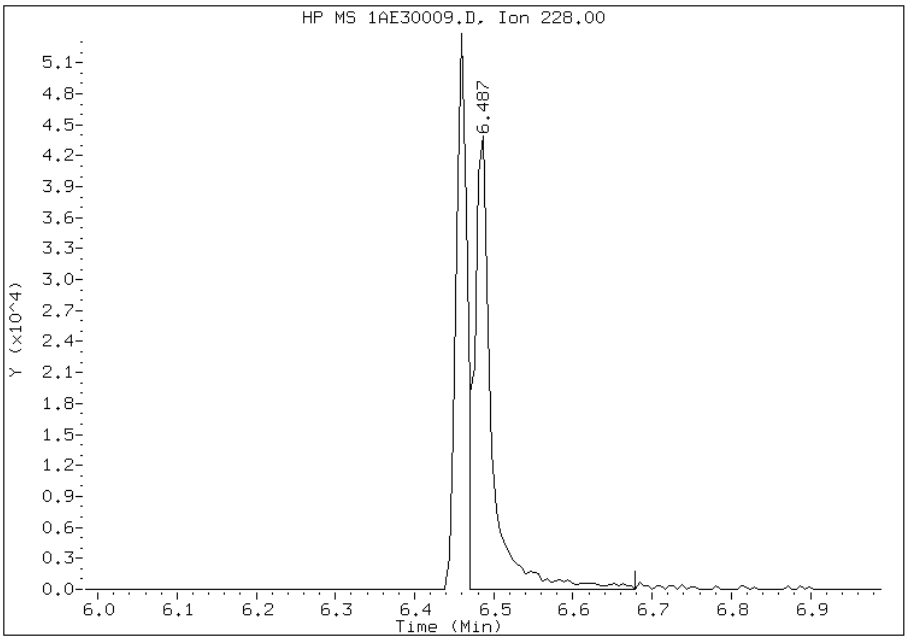
Manual Integration Results

RT: 6.49

Response: 67856

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/03/2013

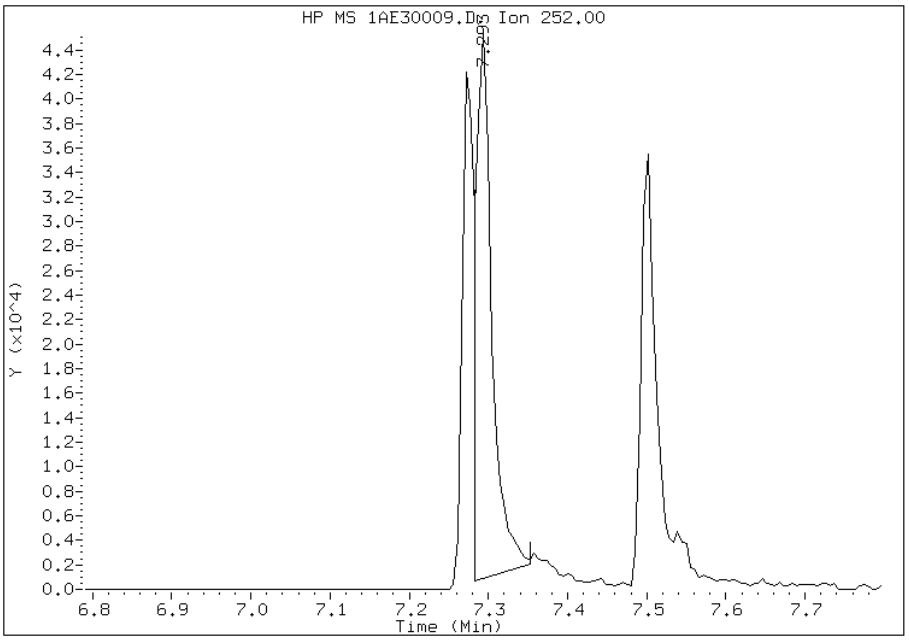
Processing Integration Results

RT: 7.29

Response: 64000

Amount: 5

Conc: 5



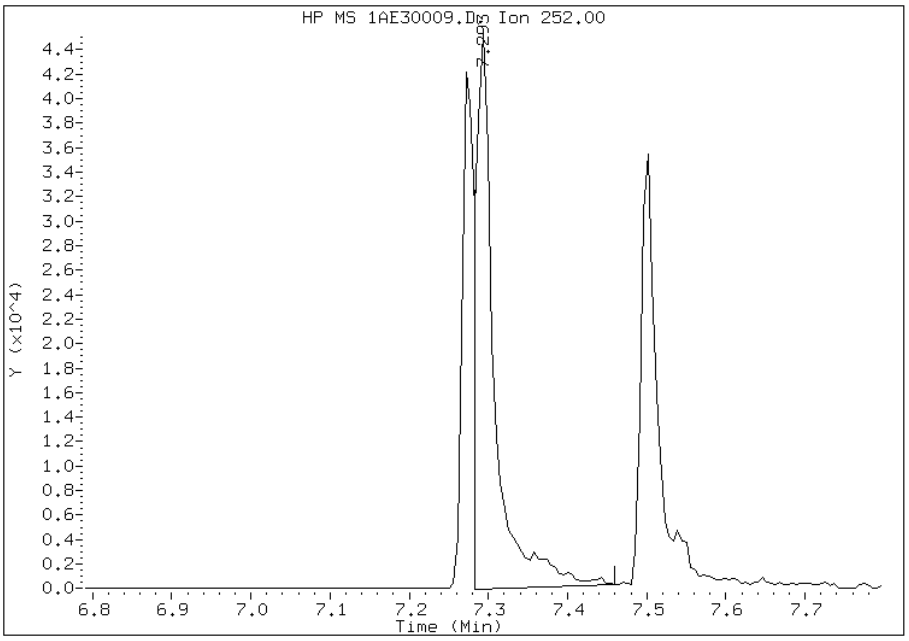
Manual Integration Results

RT: 7.29

Response: 76772

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

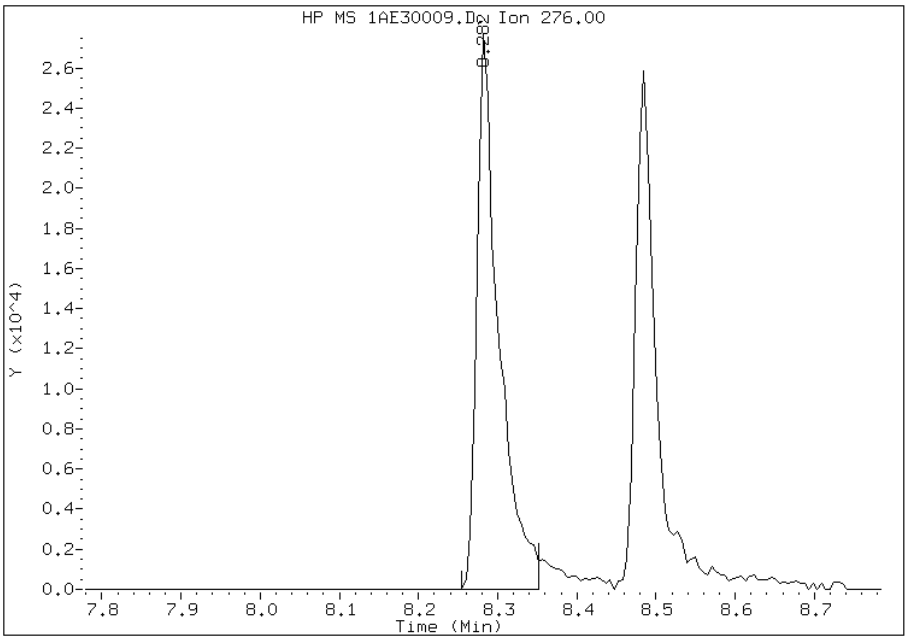
Processing Integration Results

RT: 8.28

Response: 52869

Amount: 6

Conc: 6



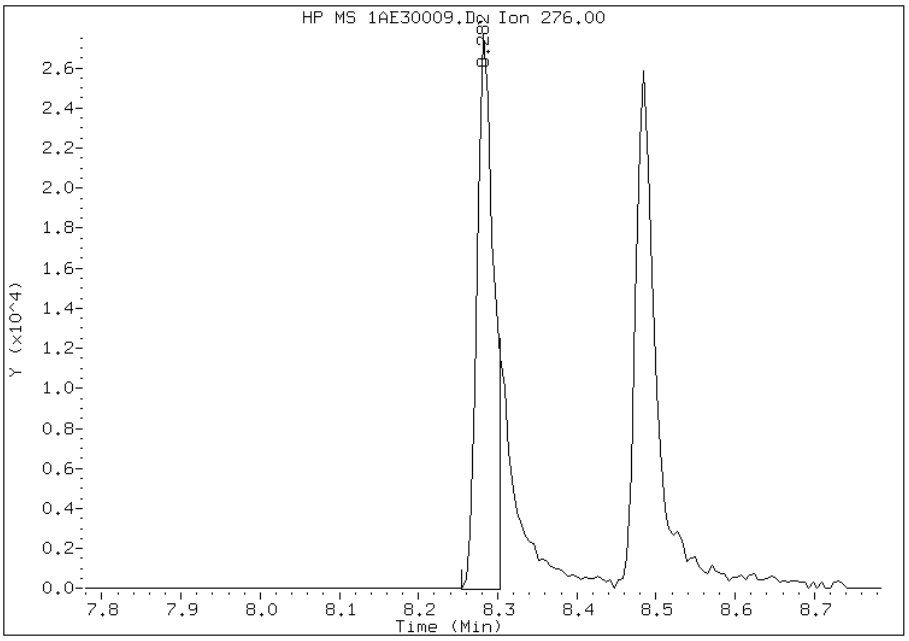
Manual Integration Results

RT: 8.28

Response: 41038

Amount: 5

Conc: 5



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/03/2013

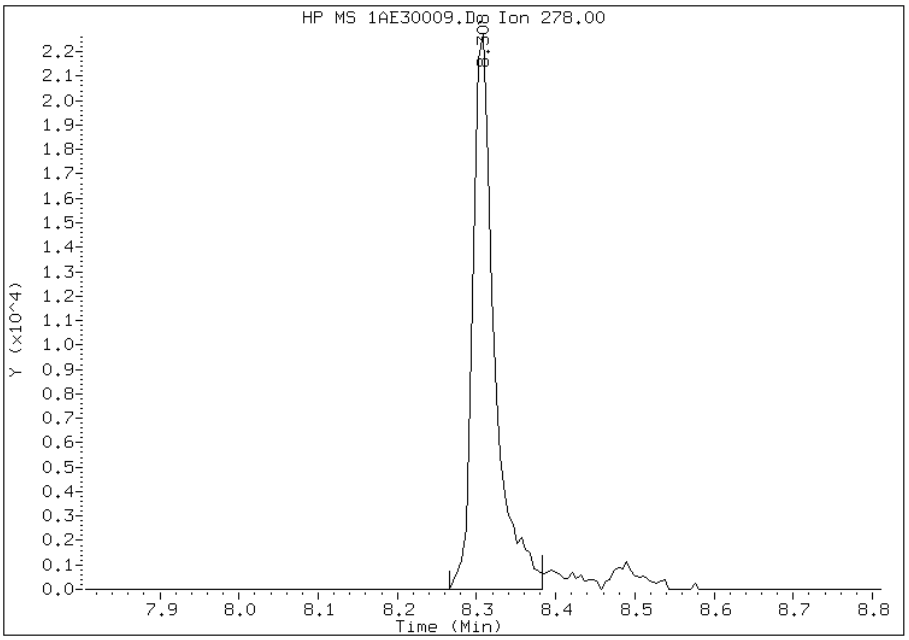
Processing Integration Results

RT: 8.31

Response: 43240

Amount: 4

Conc: 4



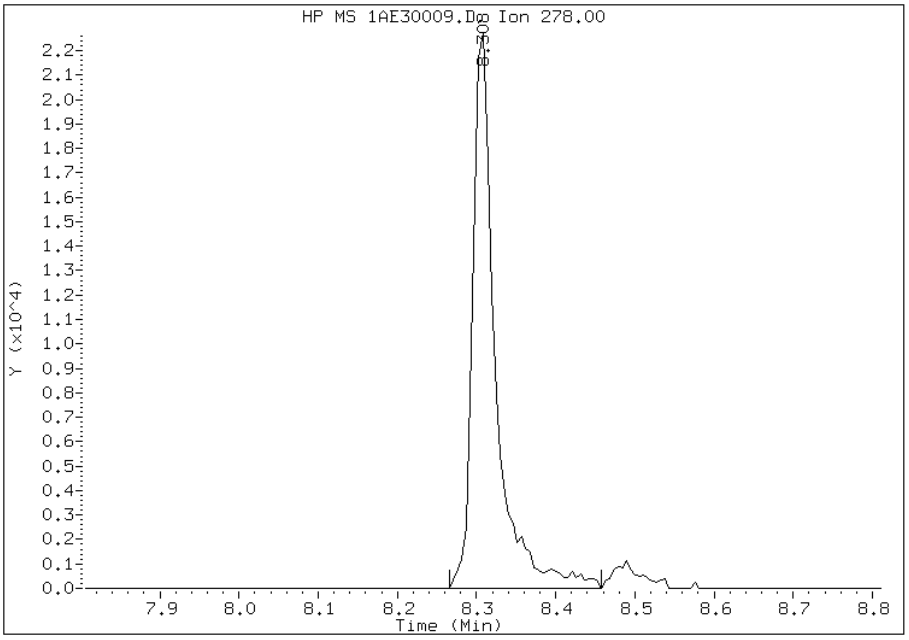
Manual Integration Results

RT: 8.31

Response: 45447

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D
Inj. Date and Time: 30-MAY-2013 15:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

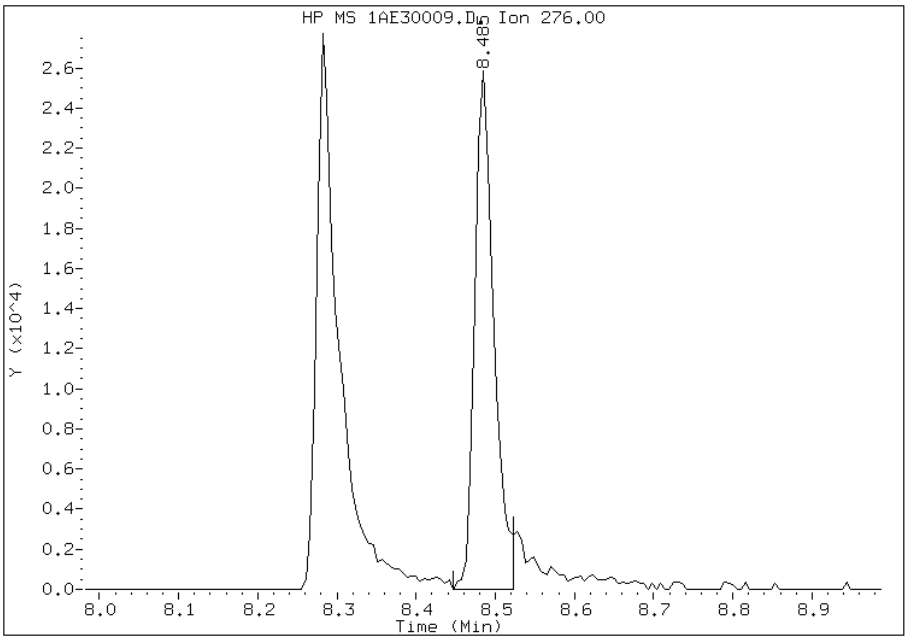
Processing Integration Results

RT: 8.48

Response: 42849

Amount: 5

Conc: 5



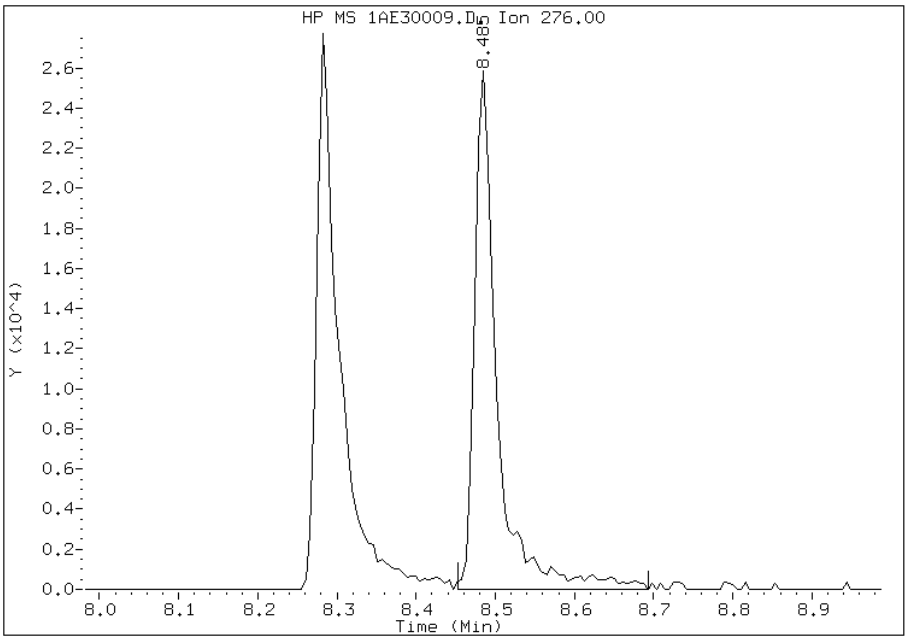
Manual Integration Results

RT: 8.48

Response: 50880

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:14
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30010.D
Lab Smp Id: IC-1559458
Inj Date : 30-MAY-2013 16:08
Operator : TP Inst ID: BSMA5973.i
Smp Info : IC-1559458
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 15:53 Cal File: 1AE30009.D
Als bottle: 7 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	2.493	2.493	(1.000)	661838	40.0000	
*	7 Acenaphthene-d10	164	3.519	3.524	(1.000)	360448	40.0000	
*	11 Phenanthrene-d10	188	4.459	4.464	(1.000)	577583	40.0000	
$	15 o-Terphenyl	230	4.758	4.758	(1.067)	74153	10.0000	9.4059
*	19 Chrysene-d12	240	6.467	6.473	(1.000)	464852	40.0000	
*	24 Perylene-d12	264	7.547	7.552	(1.000)	392794	40.0000	
	2 Naphthalene	128	2.504	2.503	(1.004)	142015	10.0000	9.9619
	3 2-Methylnaphthalene	141	2.910	2.915	(1.167)	69559	10.0000	9.4915
	4 1-Methylnaphthalene	142	2.968	2.968	(1.191)	113430	10.0000	11.3717(M)
	5 1,1'-Biphenyl	154	3.193	3.193	(1.281)	116654	10.0000	10.4092(M)
	6 Acenaphthylene	152	3.433	3.433	(0.976)	148976	10.0000	9.5897
	8 Acenaphthene	154	3.540	3.540	(1.006)	82723	10.0000	9.9506
	9 Dibenzofuran	168	3.641	3.647	(1.035)	127539	10.0000	9.8782(M)
	10 Fluorene	166	3.850	3.850	(1.094)	92220	10.0000	9.5630(M)
	12 Phenanthrene	178	4.475	4.480	(1.004)	121579	10.0000	9.8217
	13 Anthracene	178	4.512	4.512	(1.012)	130408	10.0000	9.5333
	16 Fluoranthene	202	5.335	5.340	(1.196)	137369	10.0000	9.2343(M)
	17 Pyrene	202	5.501	5.500	(0.851)	139918	10.0000	10.4195
	18 Benzo(a)anthracene	228	6.462	6.467	(0.999)	119782	10.0000	9.5918
	20 Chrysene	228	6.484	6.489	(1.002)	138024	10.0000	10.0974(M)
	21 Benzo(b)fluoranthene	252	7.274	7.279	(0.964)	92047	10.0000	8.9442
	22 Benzo(k)fluoranthene	252	7.296	7.301	(0.967)	135460	10.0000	9.7142(M)
	23 Benzo(a)pyrene	252	7.499	7.509	(0.994)	86149	10.0000	9.3237
	25 Indeno(1,2,3-cd)pyrene	276	8.278	8.294	(1.097)	68563	10.0000	9.8940(M)
	26 Dibenzo(a,h)anthracene	278	8.305	8.321	(1.101)	77730	10.0000	8.5868(M)
	27 Benzo(g,h,i)perylene	276	8.481	8.503	(1.124)	86542	10.0000	9.7639(M)

QC Flag Legend

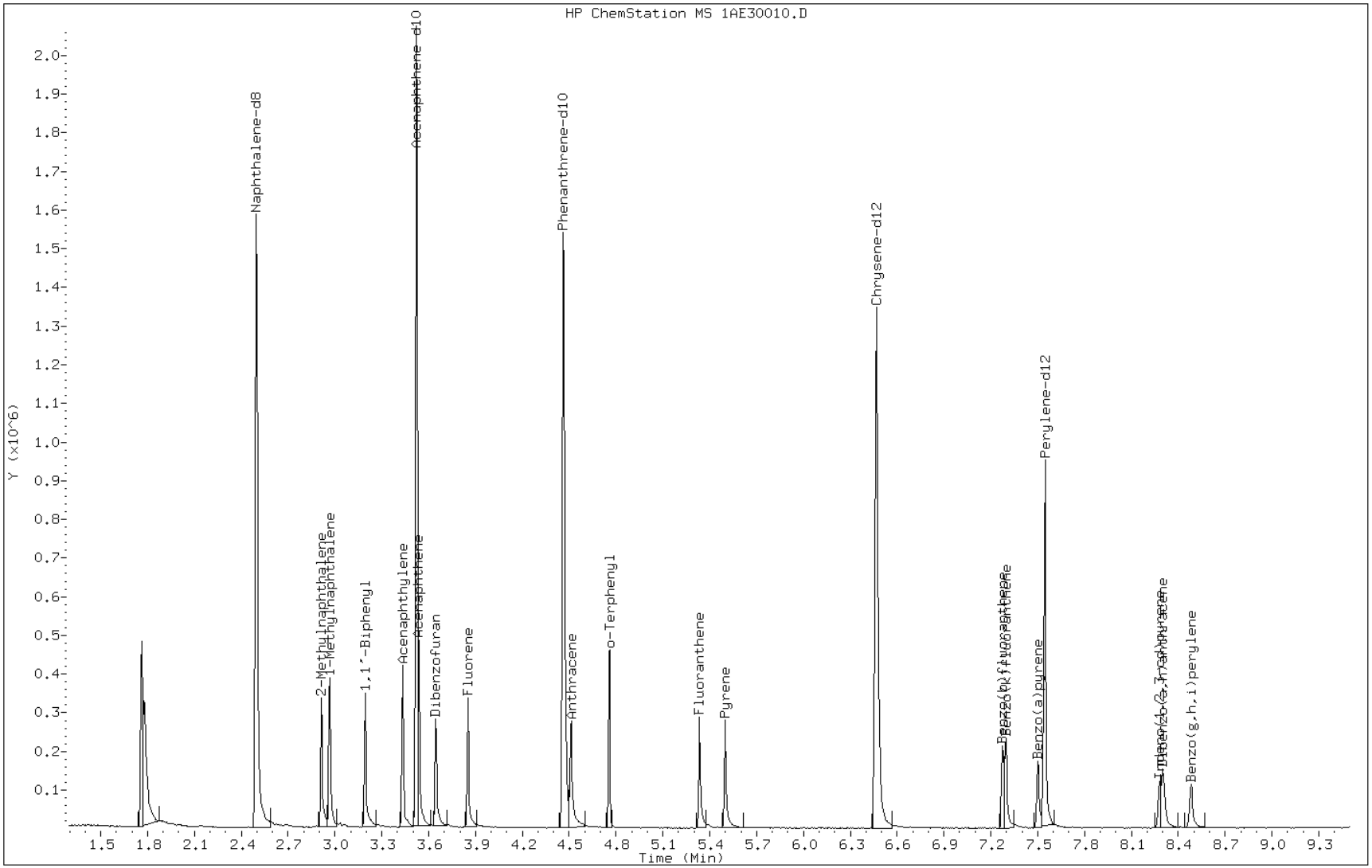
M - Compound response manually integrated.

Data File: 1AE30010.D

Date: 30-MAY-2013 16:08

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559458 Operator: TP



Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 06/03/2013

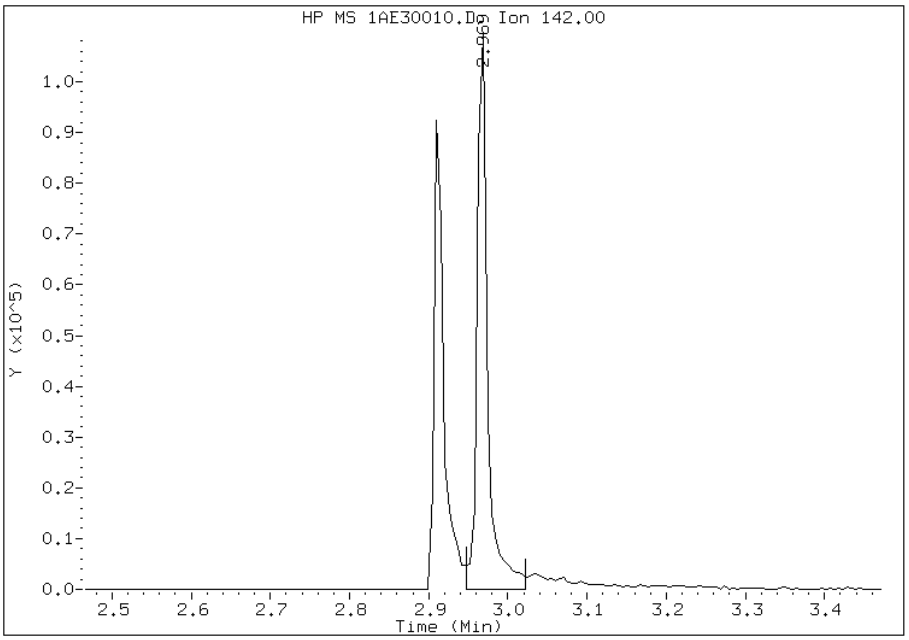
Processing Integration Results

RT: 2.97

Response: 99169

Amount: 11

Conc: 11



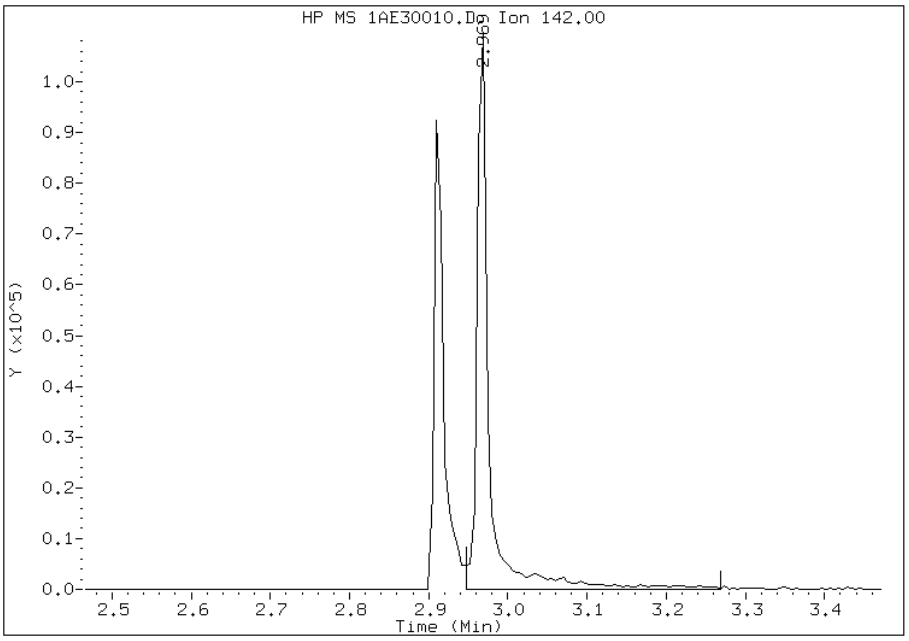
Manual Integration Results

RT: 2.97

Response: 113430

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 06/03/2013

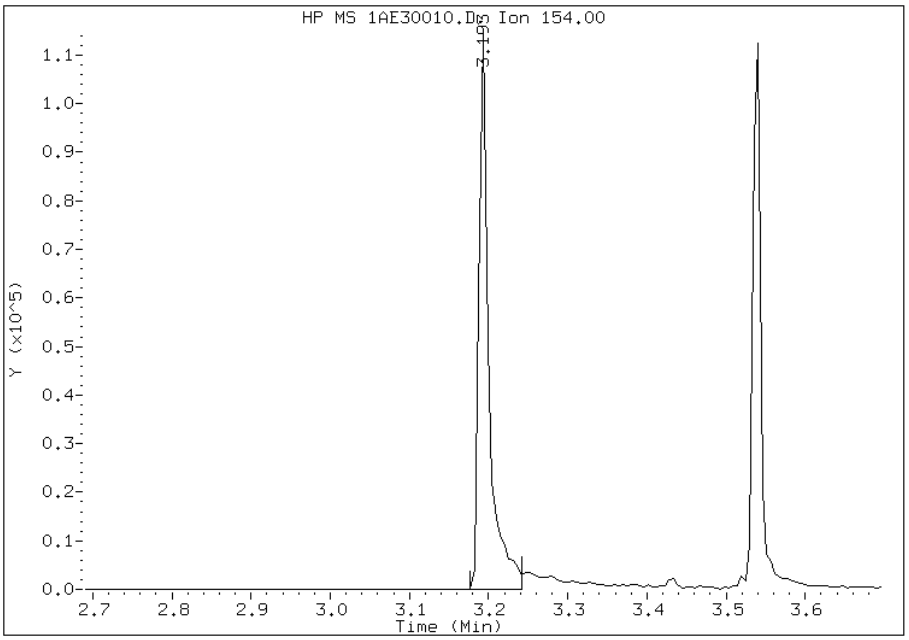
Processing Integration Results

RT: 3.19

Response: 98253

Amount: 9

Conc: 9



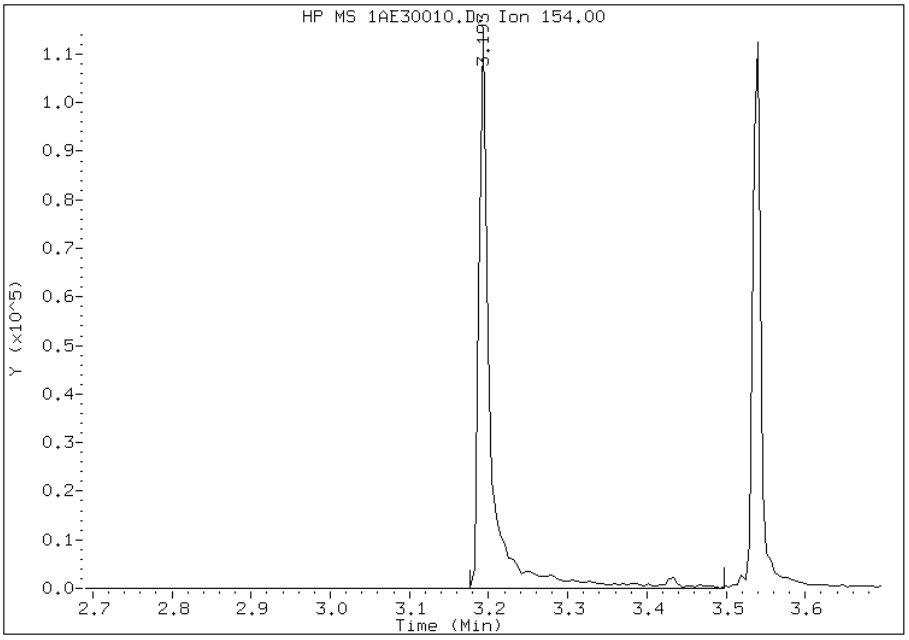
Manual Integration Results

RT: 3.19

Response: 116654

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 06/03/2013

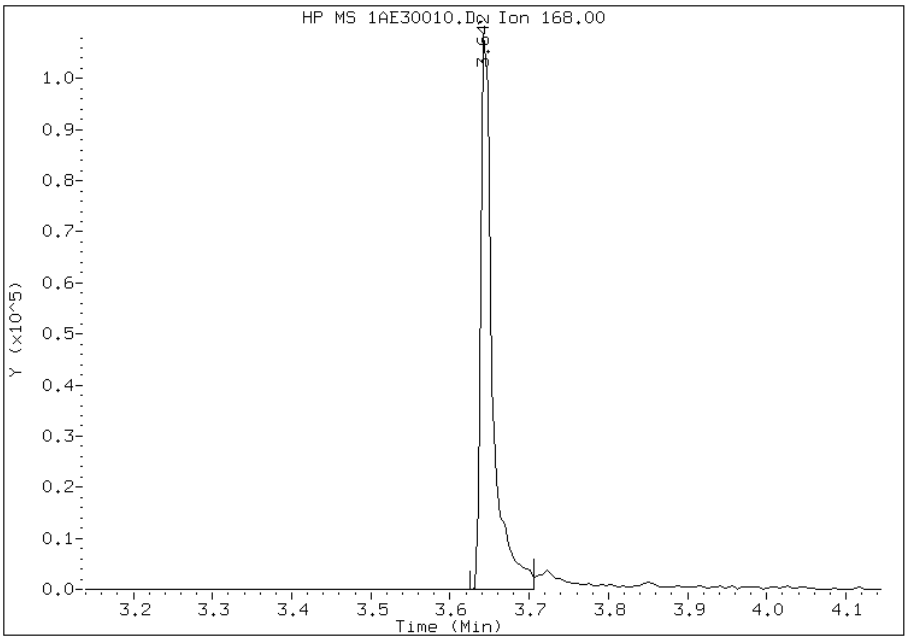
Processing Integration Results

RT: 3.64

Response: 111314

Amount: 9

Conc: 9



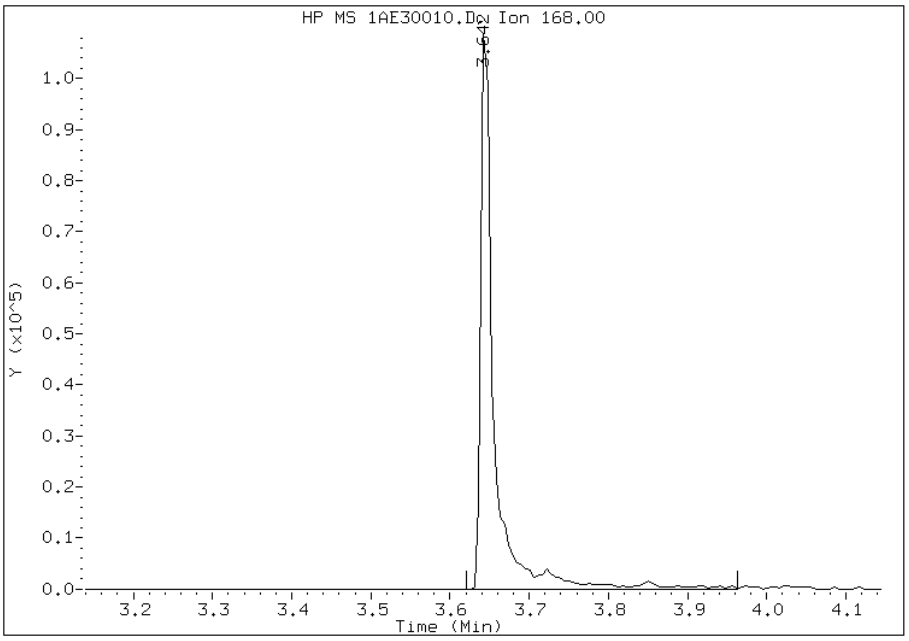
Manual Integration Results

RT: 3.64

Response: 127539

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 06/03/2013

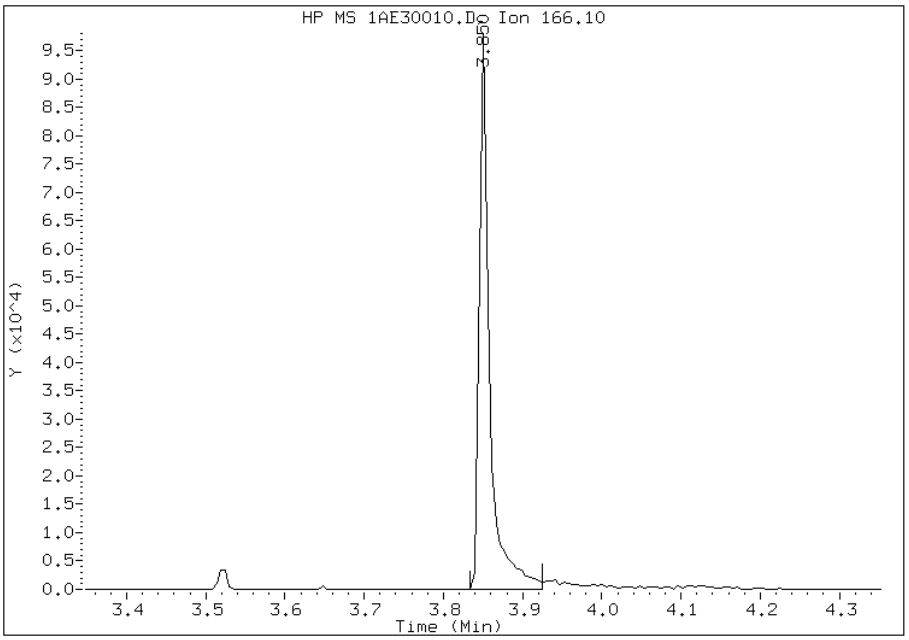
Processing Integration Results

RT: 3.85

Response: 85967

Amount: 10

Conc: 10



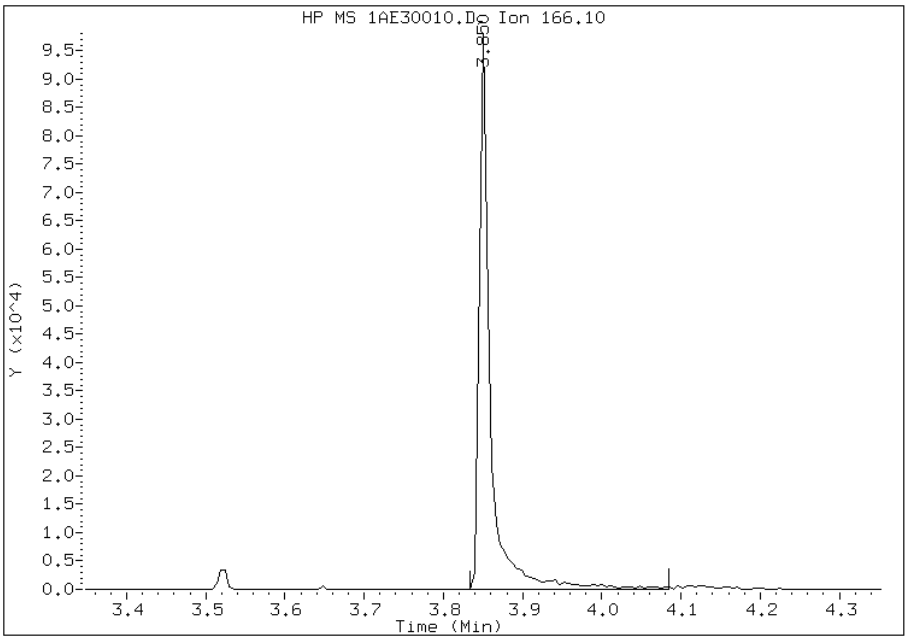
Manual Integration Results

RT: 3.85

Response: 92220

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 06/03/2013

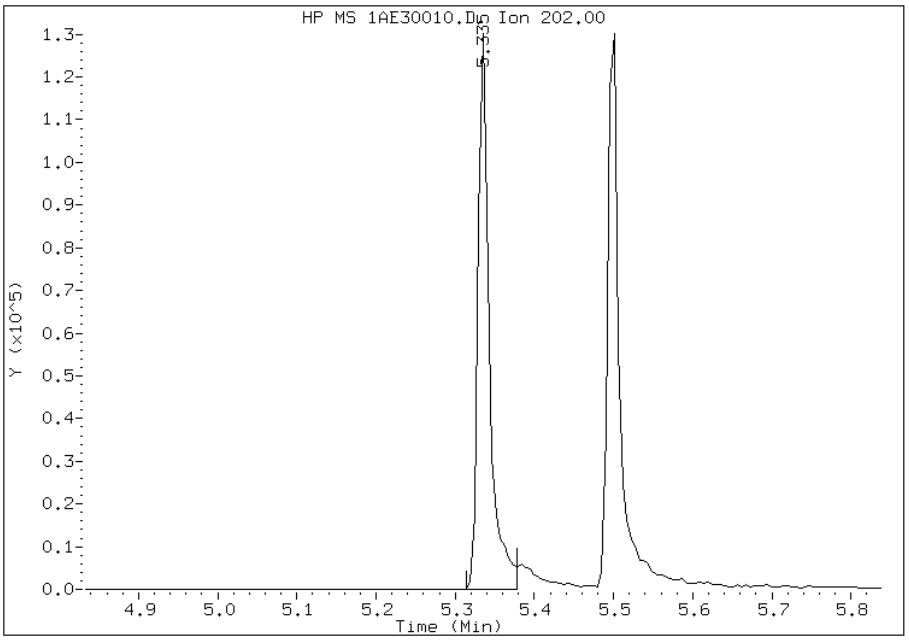
Processing Integration Results

RT: 5.34

Response: 128087

Amount: 9

Conc: 9



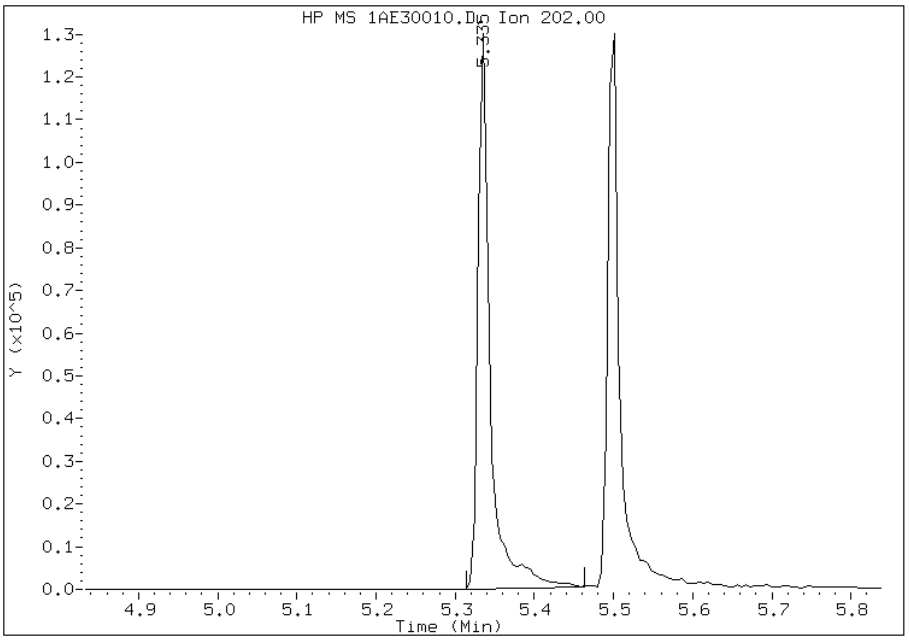
Manual Integration Results

RT: 5.34

Response: 137369

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/03/2013

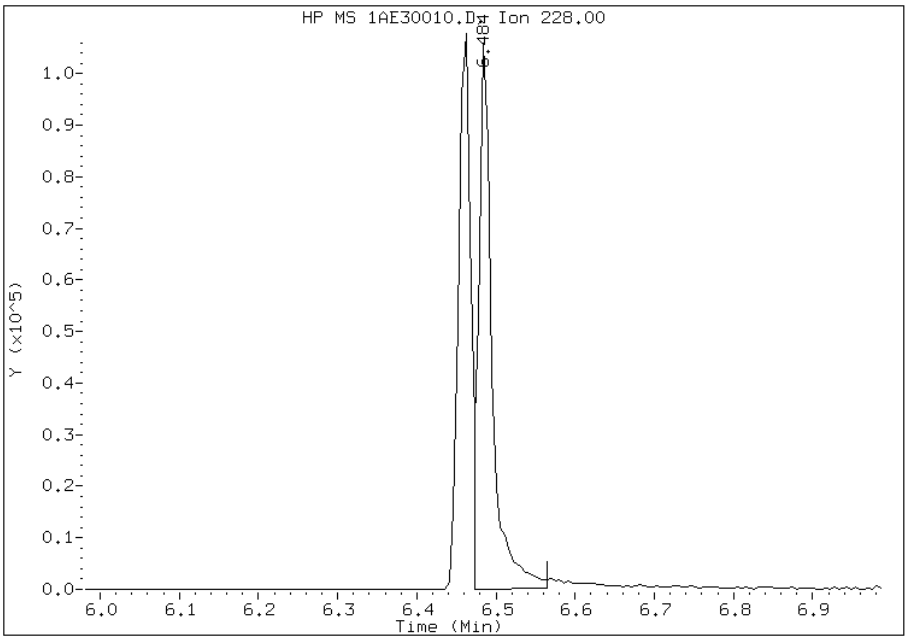
Processing Integration Results

RT: 6.48

Response: 127046

Amount: 10

Conc: 10



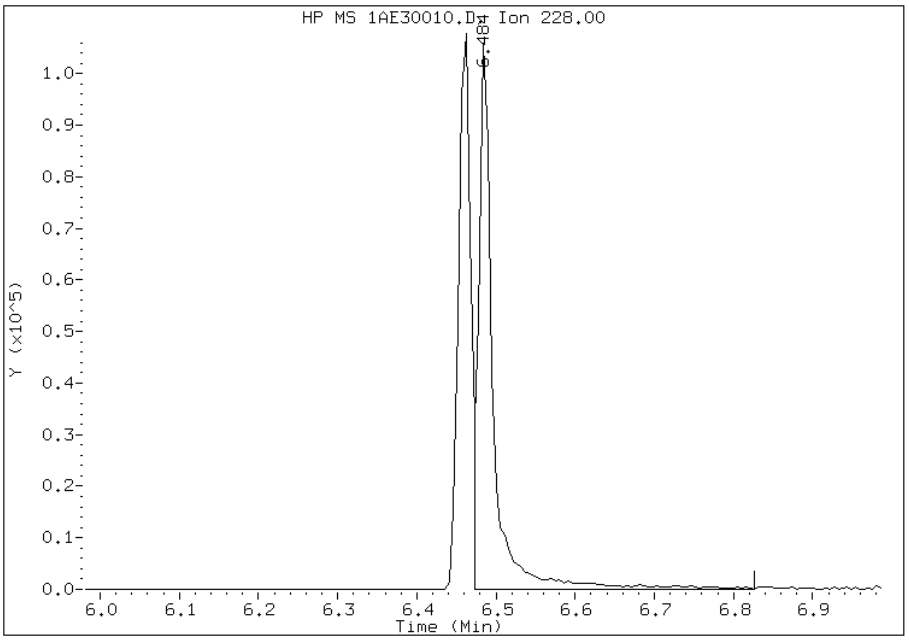
Manual Integration Results

RT: 6.48

Response: 138024

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/03/2013

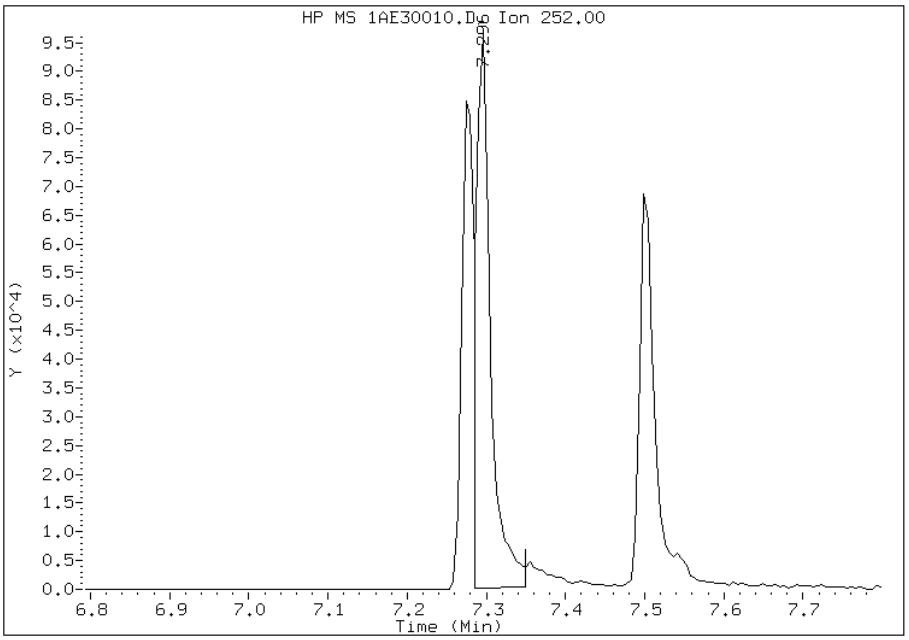
Processing Integration Results

RT: 7.30

Response: 125761

Amount: 9

Conc: 9



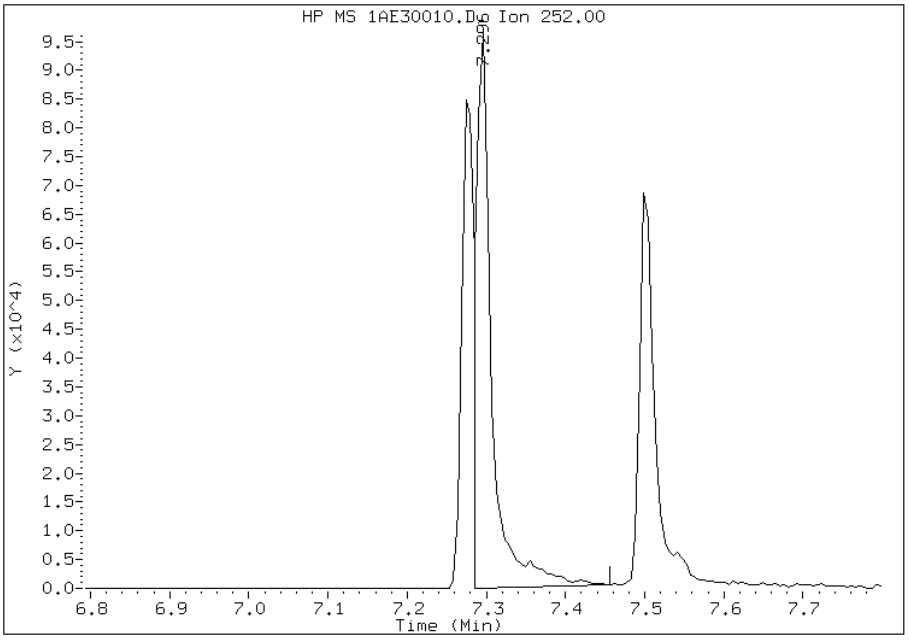
Manual Integration Results

RT: 7.30

Response: 135460

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

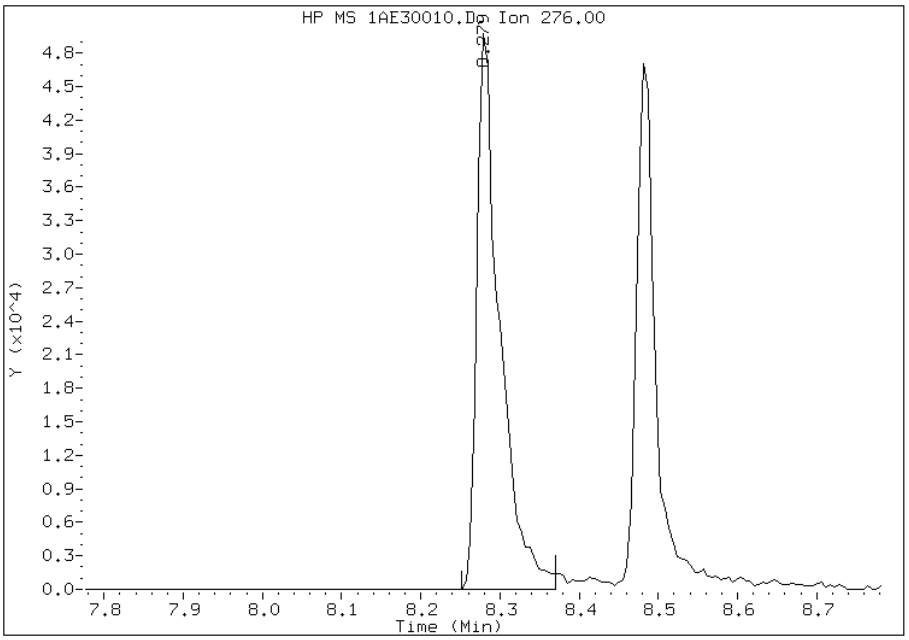
Processing Integration Results

RT: 8.28

Response: 99247

Amount: 12

Conc: 12



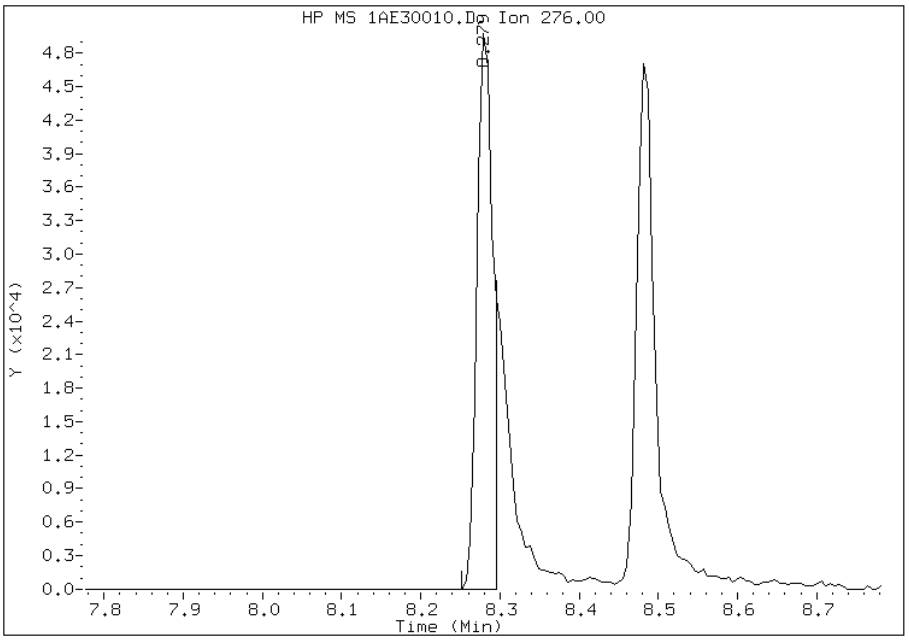
Manual Integration Results

RT: 8.28

Response: 68563

Amount: 10

Conc: 10



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/03/2013

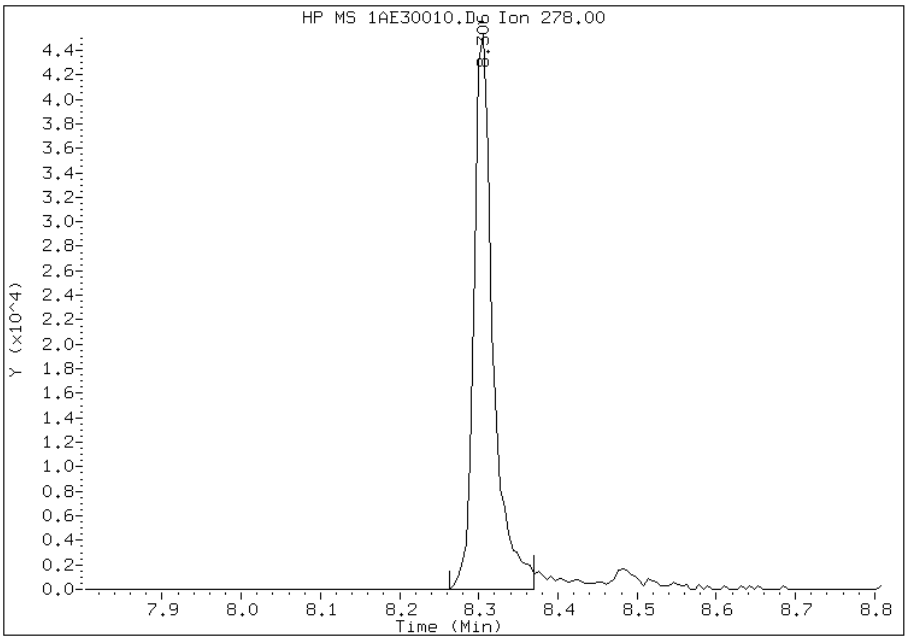
Processing Integration Results

RT: 8.31

Response: 75661

Amount: 8

Conc: 8



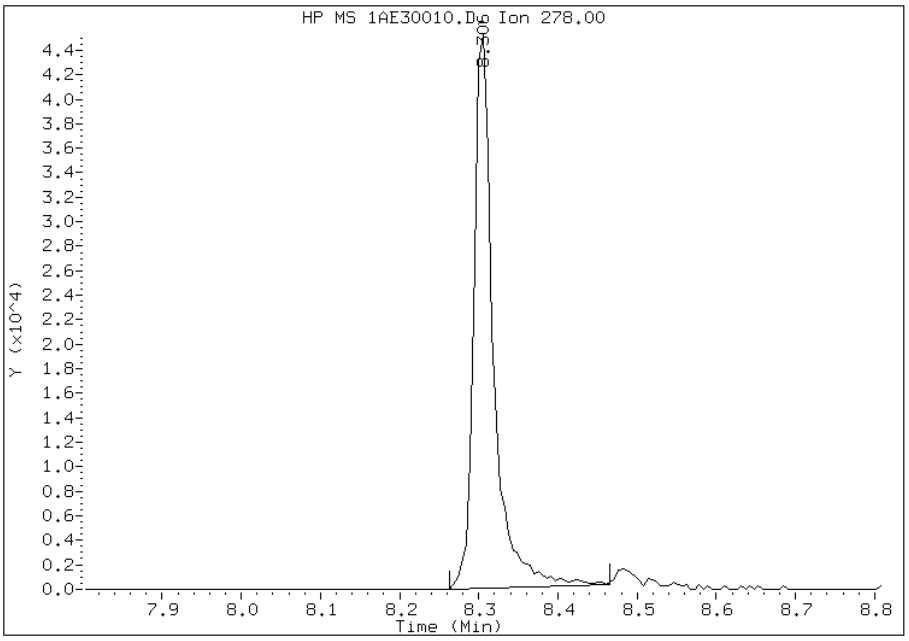
Manual Integration Results

RT: 8.31

Response: 77730

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D
Inj. Date and Time: 30-MAY-2013 16:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

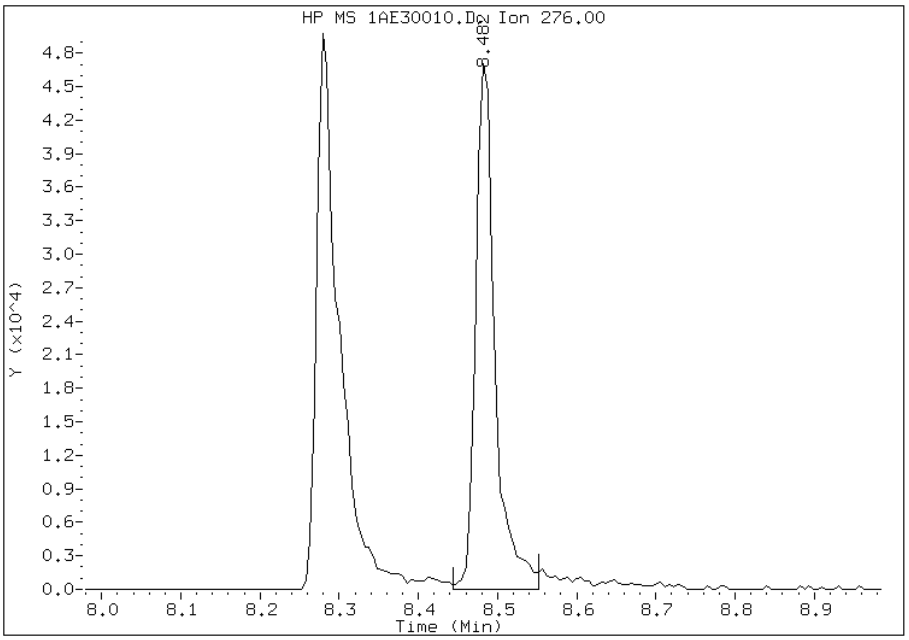
Processing Integration Results

RT: 8.48

Response: 79317

Amount: 9

Conc: 9



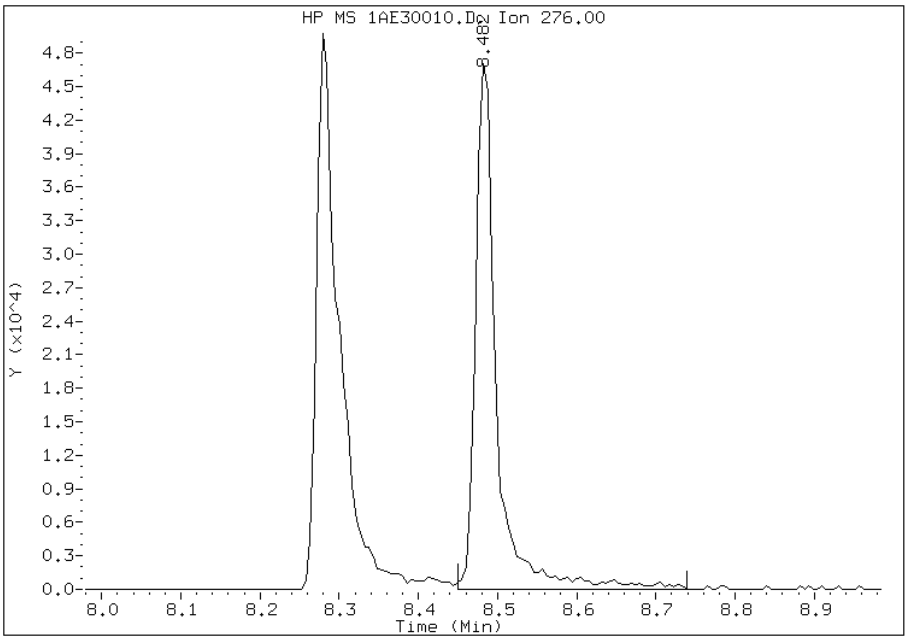
Manual Integration Results

RT: 8.48

Response: 86542

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:16
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30011.D
Lab Smp Id: IC-1559464
Inj Date : 30-MAY-2013 16:23
Operator : TP Inst ID: BSMA5973.i
Smp Info : IC-1559464
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 16:08 Cal File: 1AE30010.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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.495	2.493	(1.000)	683623	40.0000	
*	7 Acenaphthene-d10	164	3.520	3.524	(1.000)	329852	40.0000	
*	11 Phenanthrene-d10	188	4.461	4.464	(1.000)	545975	40.0000	
$	15 o-Terphenyl	230	4.760	4.758	(1.067)	235919	30.0000	31.6576
*	19 Chrysene-d12	240	6.469	6.473	(1.000)	485152	40.0000	
*	24 Perylene-d12	264	7.548	7.552	(1.000)	433598	40.0000	
	2 Naphthalene	128	2.505	2.503	(1.004)	453050	30.0000	30.7675
	3 2-Methylnaphthalene	141	2.911	2.915	(1.167)	221764	30.0000	29.0086
	4 1-Methylnaphthalene	142	2.965	2.968	(1.188)	318847	30.0000	30.9468(M)
	5 1,1'-Biphenyl	154	3.195	3.193	(1.280)	327427	30.0000	27.2058
	6 Acenaphthylene	152	3.435	3.433	(0.976)	443520	30.0000	27.8894
	8 Acenaphthene	154	3.542	3.540	(1.006)	237217	30.0000	31.1813
	9 Dibenzofuran	168	3.643	3.647	(1.035)	372324	30.0000	29.7336(M)
	10 Fluorene	166	3.852	3.850	(1.094)	275316	30.0000	28.9273(M)
	12 Phenanthrene	178	4.477	4.480	(1.004)	369301	30.0000	31.5610
	13 Anthracene	178	4.514	4.512	(1.012)	394926	30.0000	30.5421(M)
	16 Fluoranthene	202	5.337	5.340	(1.196)	430714	30.0000	30.3898(M)
	17 Pyrene	202	5.502	5.500	(0.851)	424933	30.0000	30.3201
	18 Benzo(a)anthracene	228	6.464	6.467	(0.999)	374261	30.0000	28.7159
	20 Chrysene	228	6.491	6.489	(1.003)	425638	30.0000	29.8355(M)
	21 Benzo(b)fluoranthene	252	7.281	7.279	(0.965)	394702	30.0000	30.2627
	22 Benzo(k)fluoranthene	252	7.303	7.301	(0.967)	434205	30.0000	27.9540
	23 Benzo(a)pyrene	252	7.506	7.509	(0.994)	347277	30.0000	34.0480
	25 Indeno(1,2,3-cd)pyrene	276	8.286	8.294	(1.098)	273397	30.0000	35.7401(M)
	26 Dibenzo(a,h)anthracene	278	8.312	8.321	(1.101)	303964	30.0000	30.0796
	27 Benzo(g,h,i)perylene	276	8.494	8.503	(1.125)	306240	30.0000	31.0120(M)

QC Flag Legend

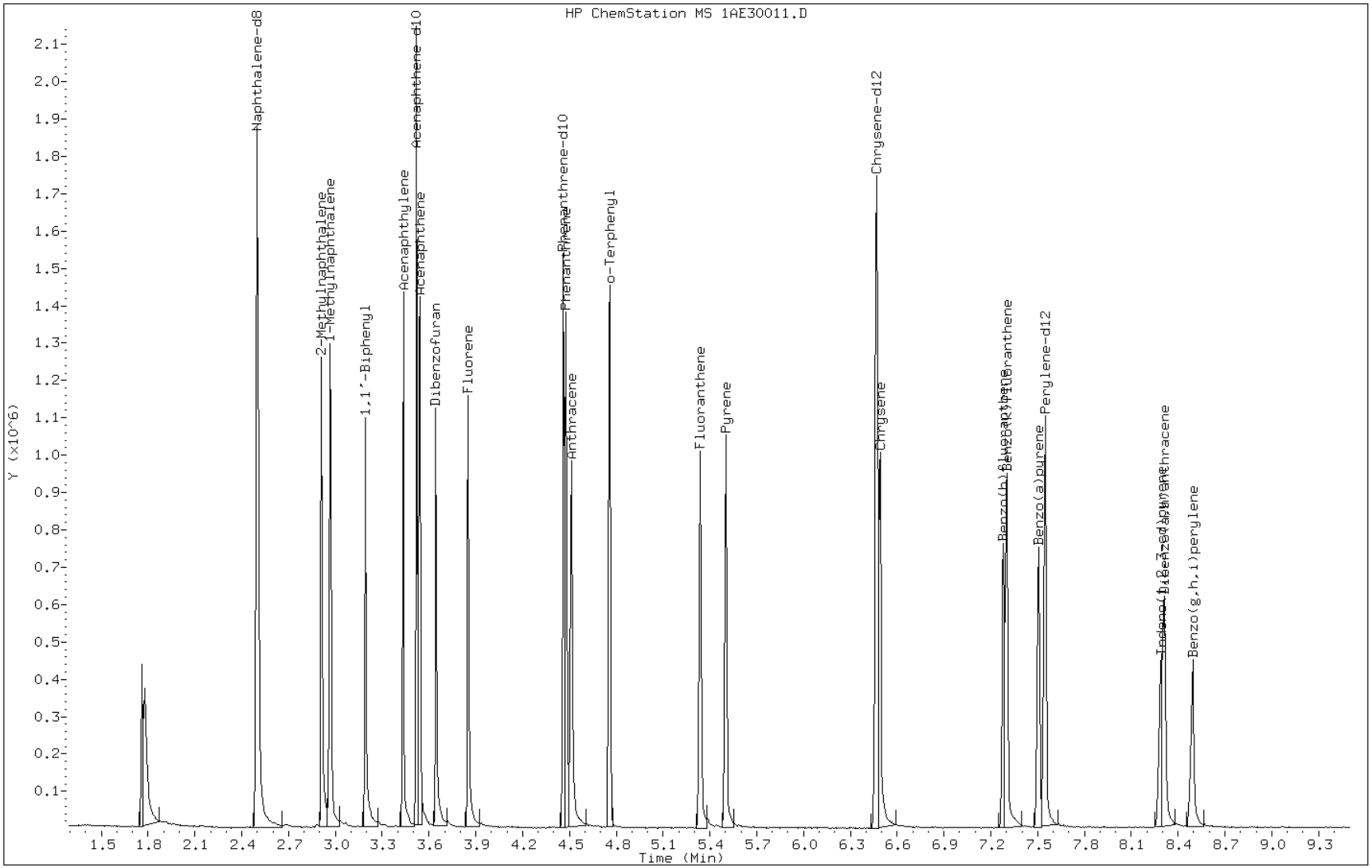
M - Compound response manually integrated.

Data File: 1AE30011.D

Date: 30-MAY-2013 16:23

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559464 Operator: TP



Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 06/03/2013

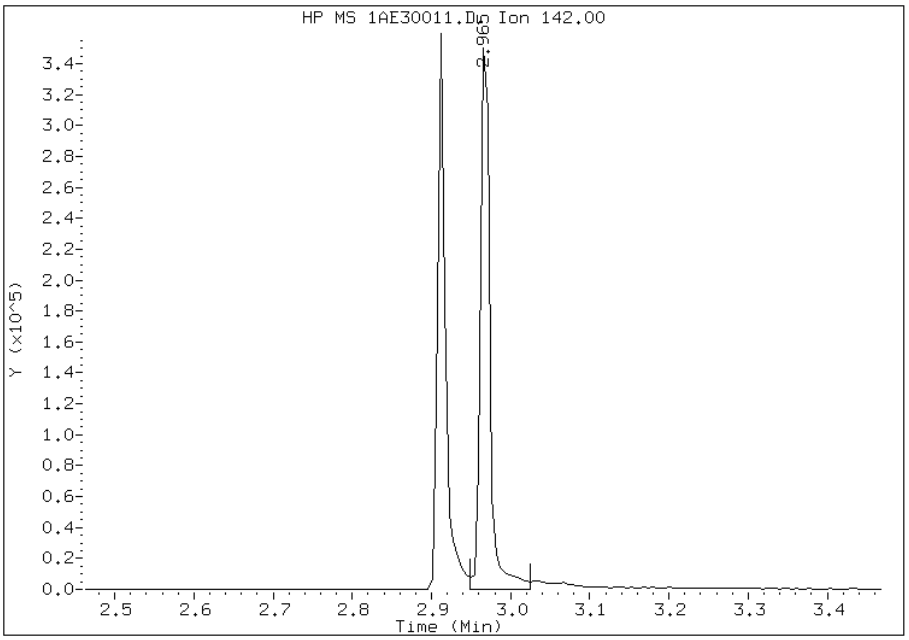
Processing Integration Results

RT: 2.97

Response: 290331

Amount: 30

Conc: 30



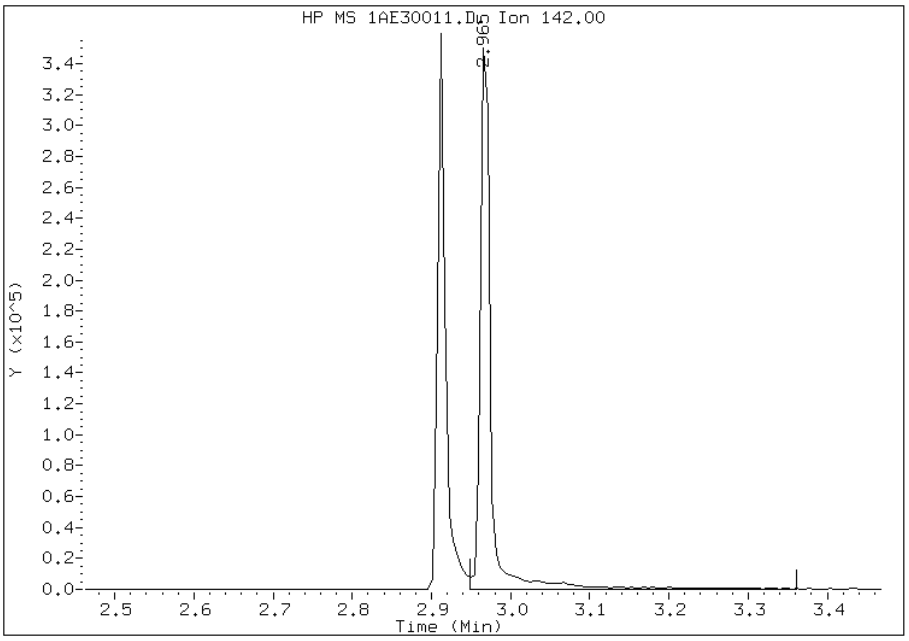
Manual Integration Results

RT: 2.97

Response: 318847

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 06/03/2013

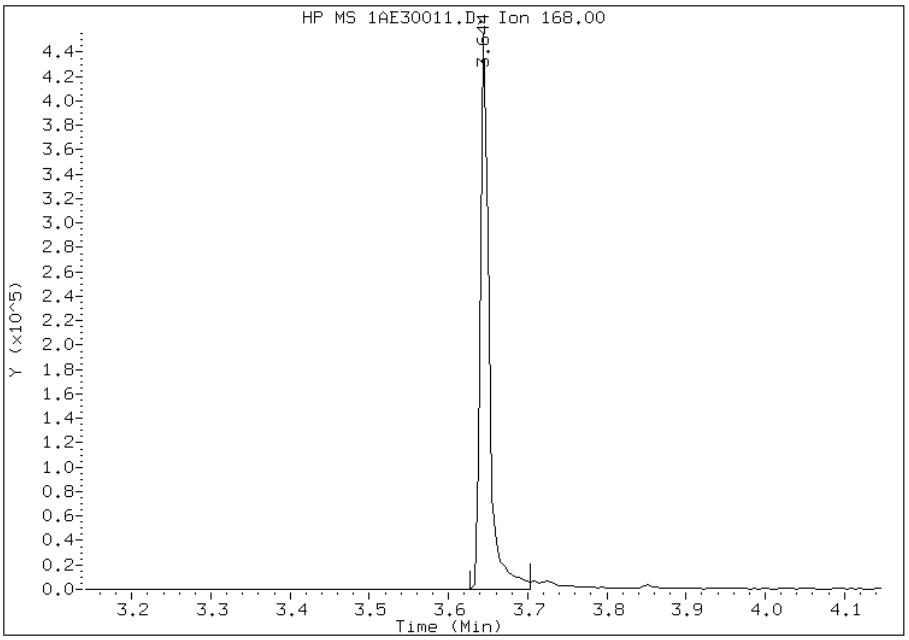
Processing Integration Results

RT: 3.64

Response: 343077

Amount: 28

Conc: 28



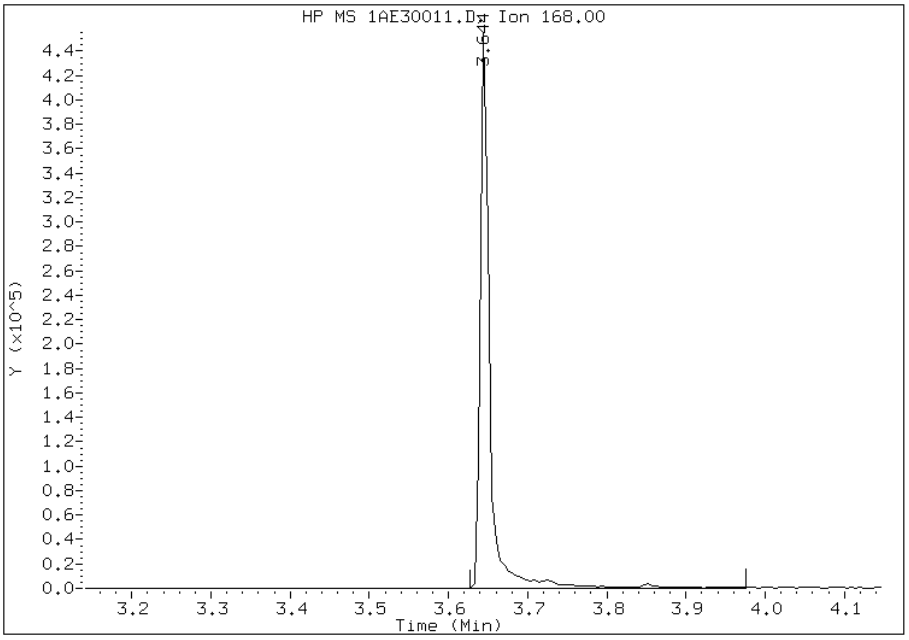
Manual Integration Results

RT: 3.64

Response: 372324

Amount: 30

Conc: 30



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 06/03/2013

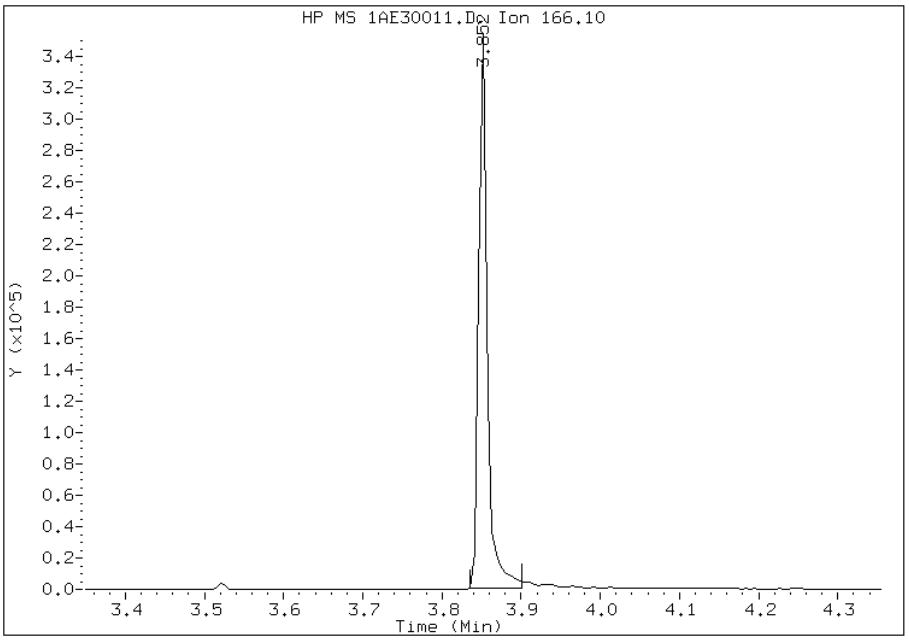
Processing Integration Results

RT: 3.85

Response: 258130

Amount: 28

Conc: 28



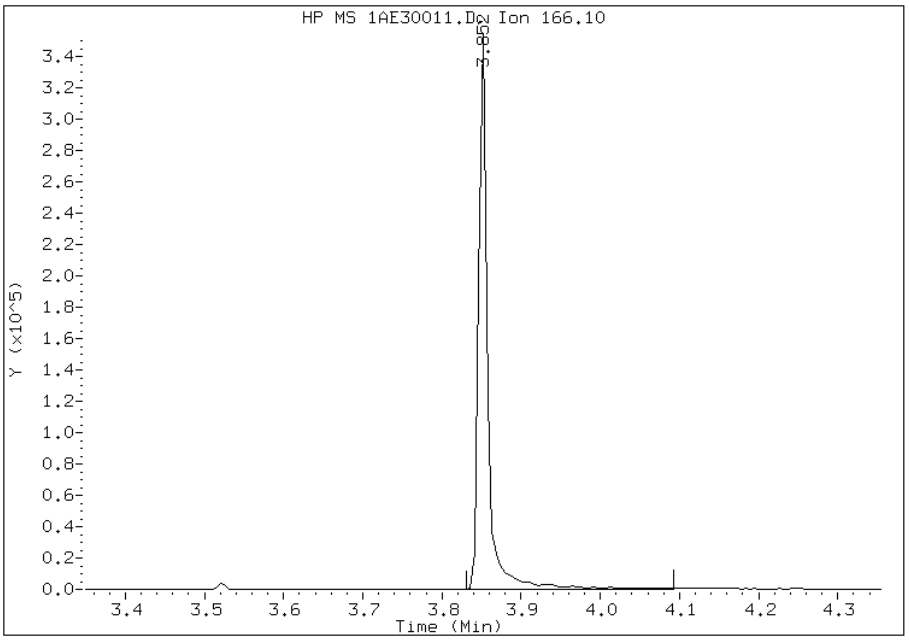
Manual Integration Results

RT: 3.85

Response: 275316

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 06/03/2013

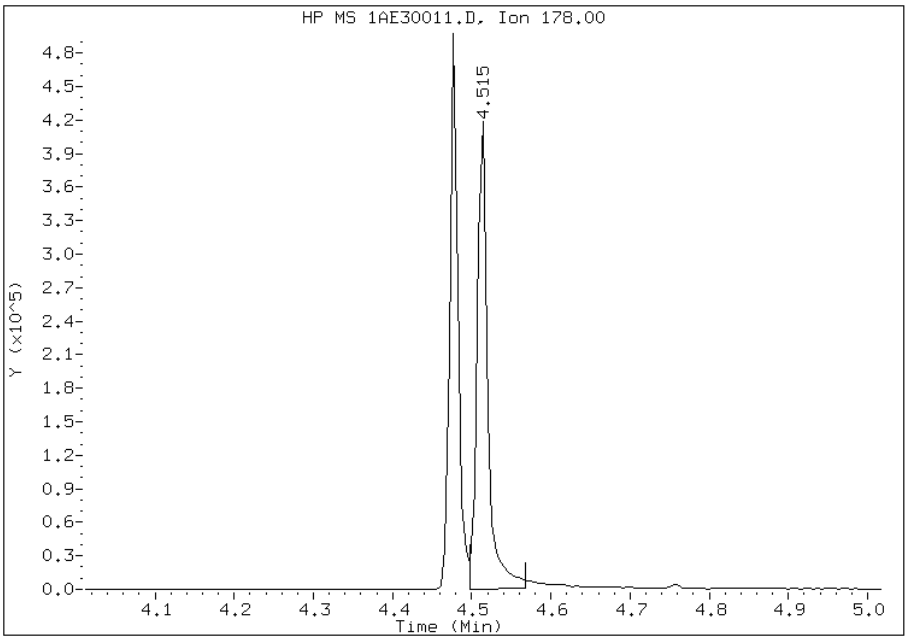
Processing Integration Results

RT: 4.51

Response: 380057

Amount: 30

Conc: 30



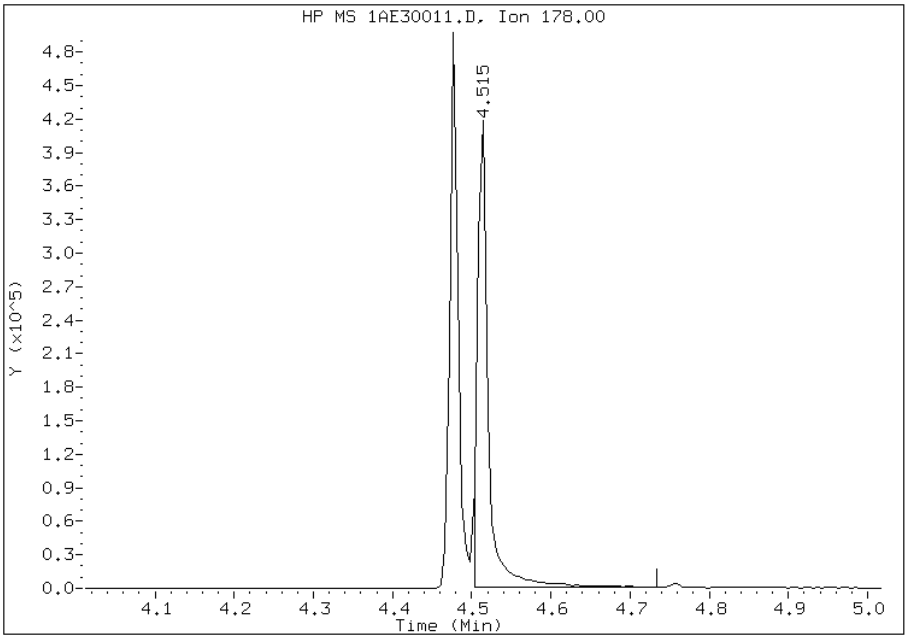
Manual Integration Results

RT: 4.51

Response: 394926

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 06/03/2013

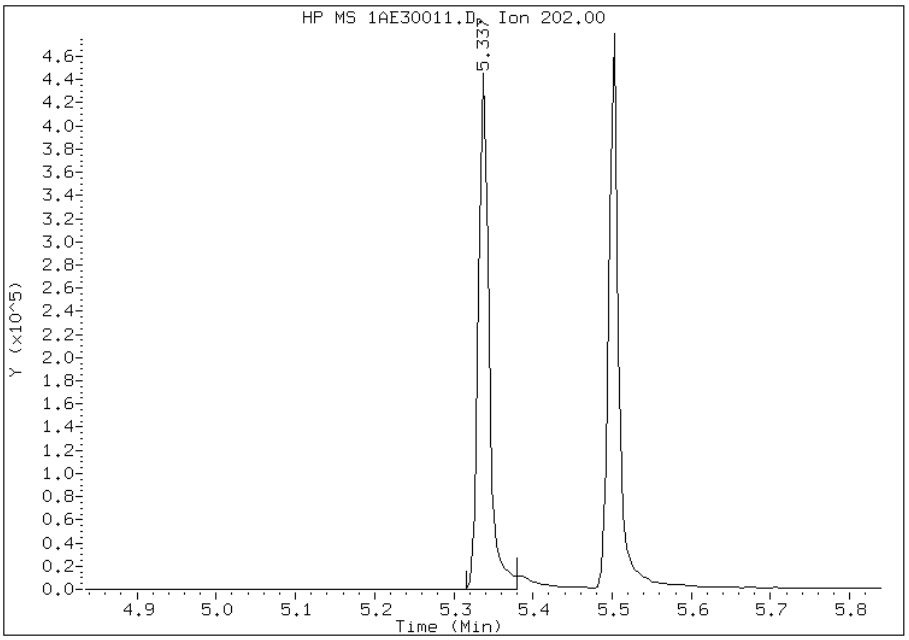
Processing Integration Results

RT: 5.34

Response: 411590

Amount: 30

Conc: 30



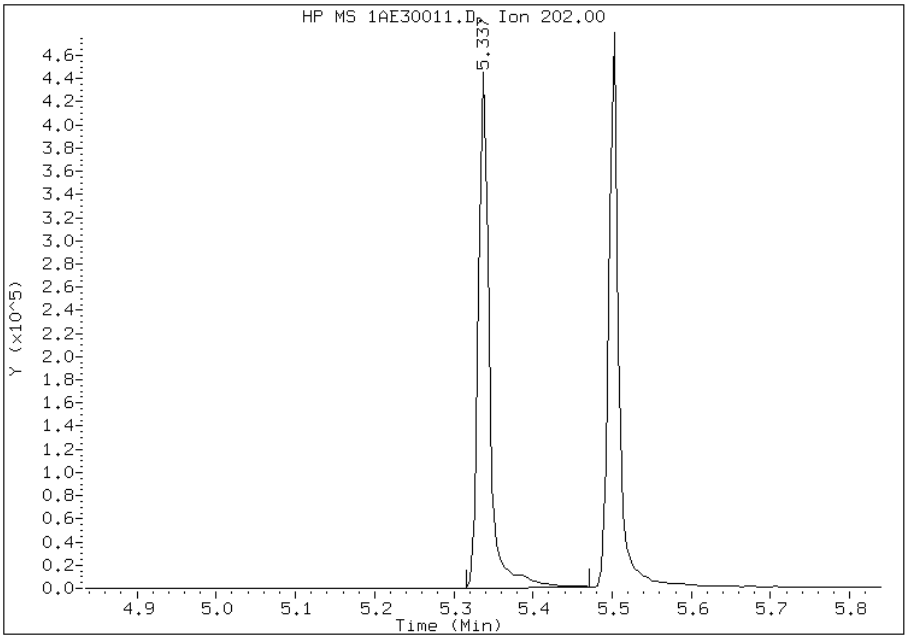
Manual Integration Results

RT: 5.34

Response: 430714

Amount: 30

Conc: 30



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/03/2013

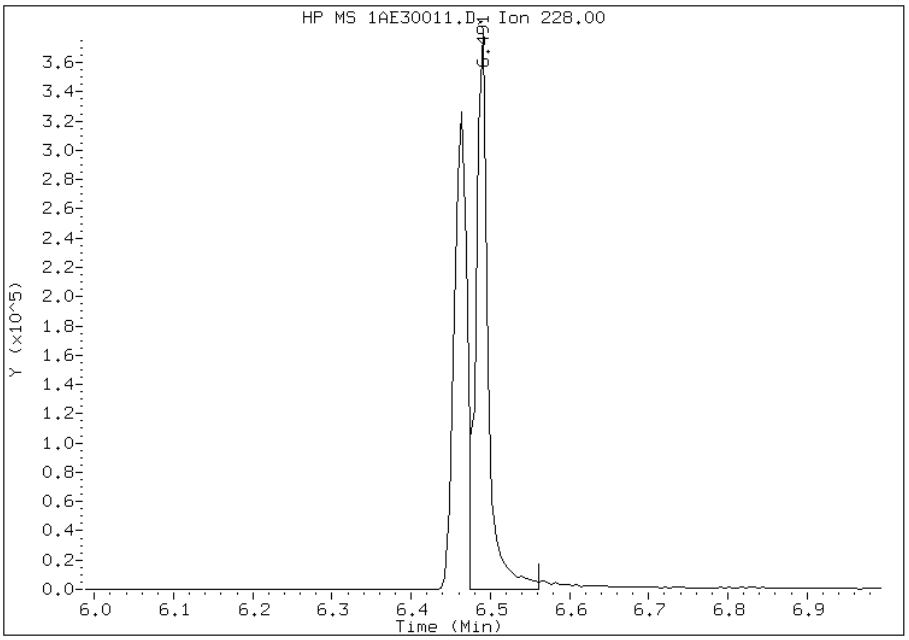
Processing Integration Results

RT: 6.49

Response: 407429

Amount: 29

Conc: 29



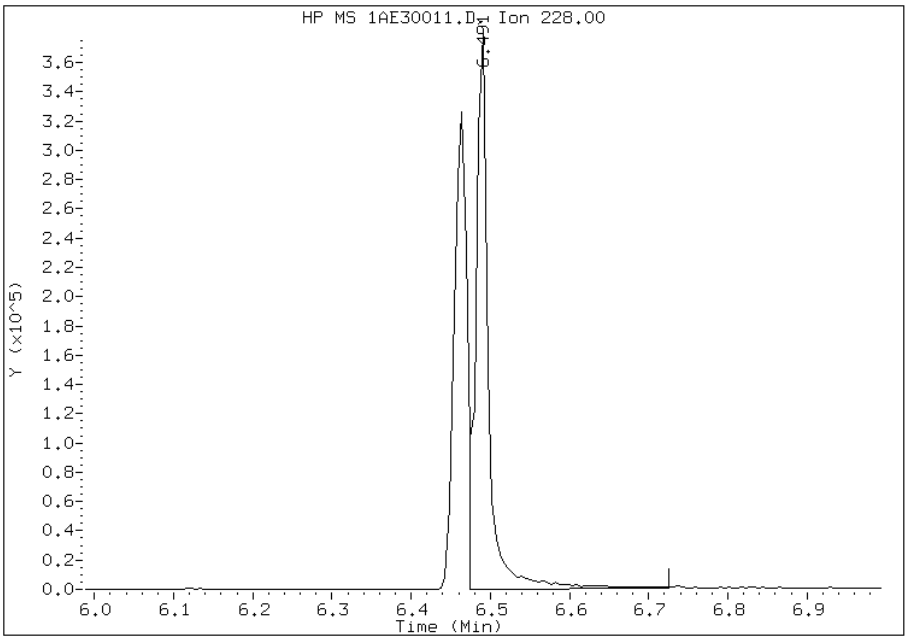
Manual Integration Results

RT: 6.49

Response: 425638

Amount: 30

Conc: 30



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

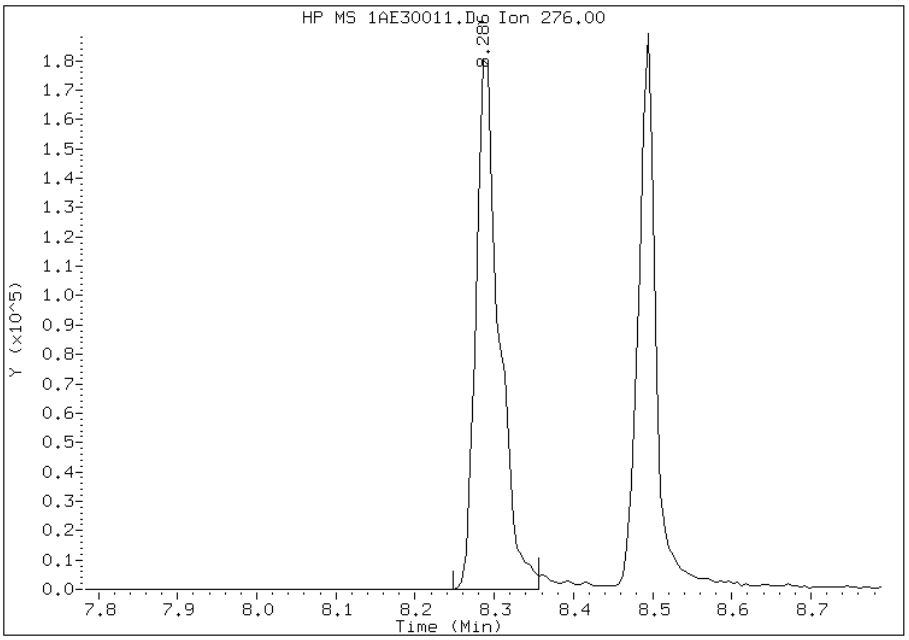
Processing Integration Results

RT: 8.29

Response: 364468

Amount: 33

Conc: 33



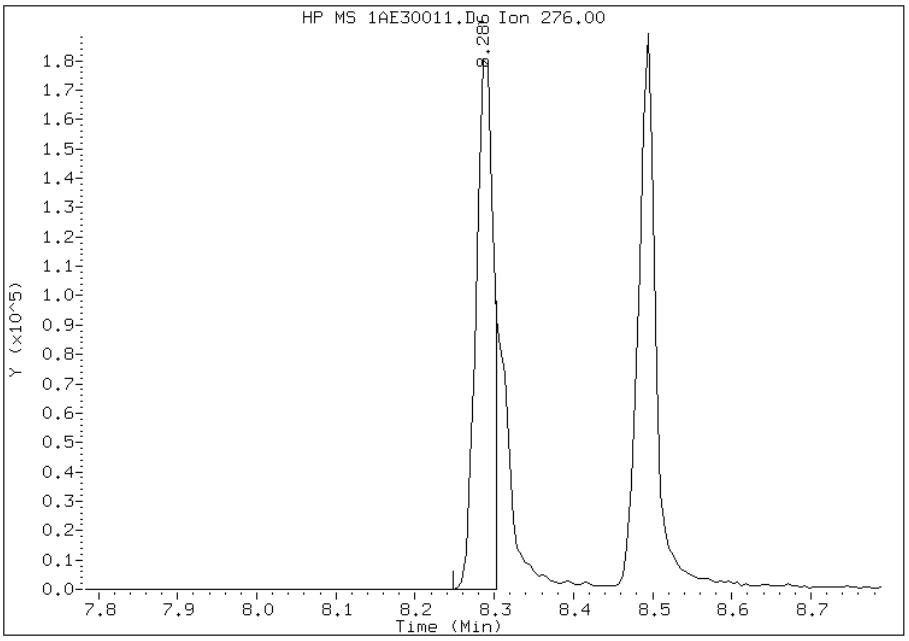
Manual Integration Results

RT: 8.29

Response: 273397

Amount: 36

Conc: 36



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30011.D
Inj. Date and Time: 30-MAY-2013 16:23
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

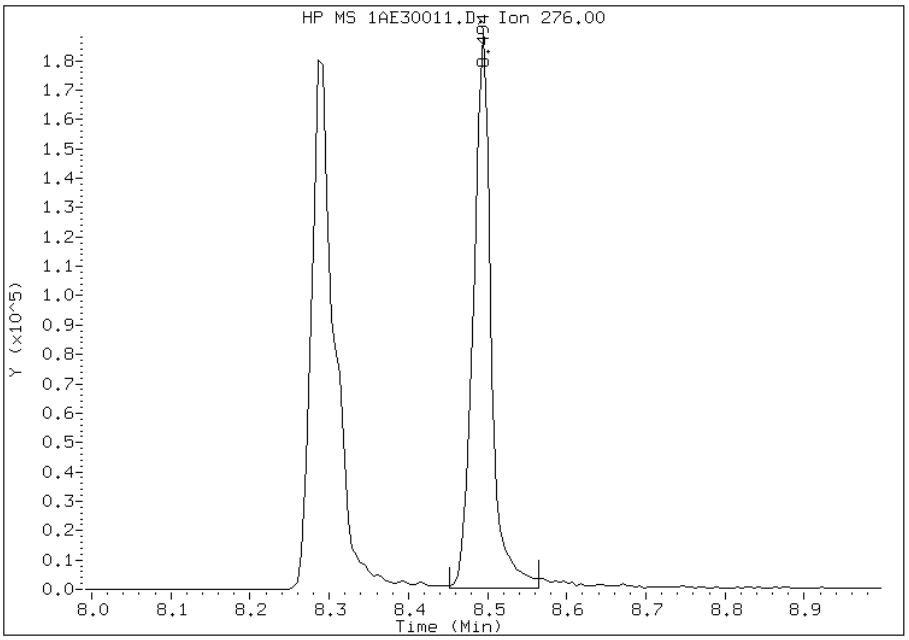
Processing Integration Results

RT: 8.49

Response: 292958

Amount: 30

Conc: 30



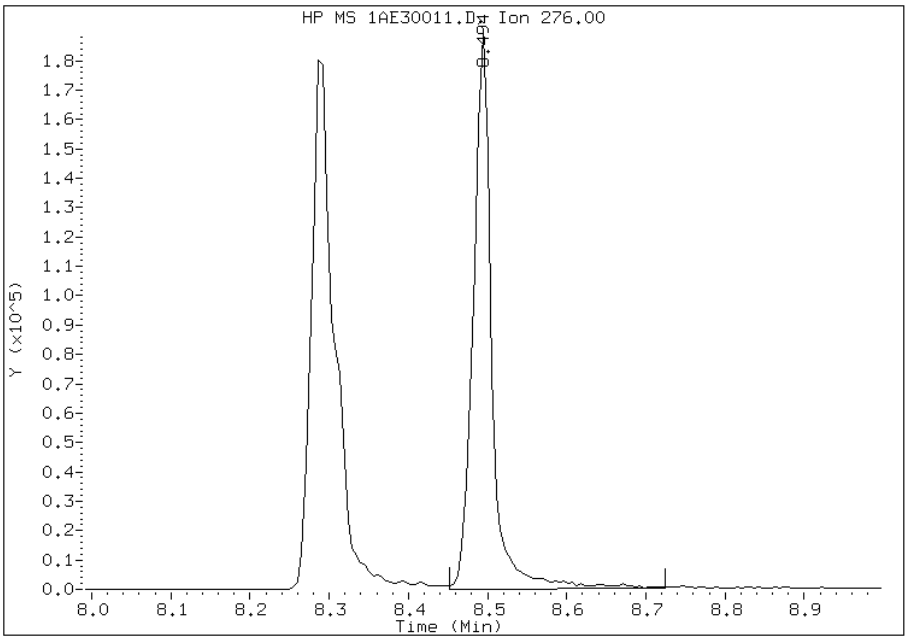
Manual Integration Results

RT: 8.49

Response: 306240

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:17
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30012.D
Lab Smp Id: IC-1559465
Inj Date : 30-MAY-2013 16:38
Operator : TP Inst ID: BSMA5973.i
Smp Info : IC-1559465
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD
Cal Date : 30-MAY-2013 16:23 Cal File: 1AE30011.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.496	2.493	(1.000)	689147	40.0000	
* 7 Acenaphthene-d10	164	3.522	3.524	(1.000)	317087	40.0000	
* 11 Phenanthrene-d10	188	4.462	4.464	(1.000)	534757	40.0000	
$ 15 o-Terphenyl	230	4.761	4.758	(1.067)	412698	50.0000	56.5410(A)
* 19 Chrysene-d12	240	6.471	6.473	(1.000)	484361	40.0000	
* 24 Perylene-d12	264	7.550	7.552	(1.000)	359900	40.0000	
2 Naphthalene	128	2.507	2.503	(1.004)	808043	50.0000	54.4360(A)
3 2-Methylnaphthalene	141	2.913	2.915	(1.167)	408513	50.0000	52.8946(A)
4 1-Methylnaphthalene	142	2.966	2.968	(1.188)	547004	50.0000	52.6658(AM)
5 1,1'-Biphenyl	154	3.191	3.193	(1.278)	630960	50.0000	51.4328(AM)
6 Acenaphthylene	152	3.436	3.433	(0.976)	812251	50.0000	51.8031(A)
8 Acenaphthene	154	3.543	3.540	(1.006)	437520	50.0000	59.8257(A)
9 Dibenzofuran	168	3.645	3.647	(1.035)	617118	50.0000	50.6785(A)
10 Fluorene	166	3.853	3.850	(1.094)	474318	50.0000	51.0475(A)
12 Phenanthrene	178	4.478	4.480	(1.004)	658799	50.0000	57.4830(A)
13 Anthracene	178	4.515	4.512	(1.012)	686637	50.0000	54.2159(A)
16 Fluoranthene	202	5.338	5.340	(1.196)	700755	50.0000	50.4117(A)
17 Pyrene	202	5.504	5.500	(0.851)	696926	50.0000	49.8088
18 Benzo(a)anthracene	228	6.465	6.467	(0.999)	705326	50.0000	54.2059(A)
20 Chrysene	228	6.492	6.489	(1.003)	636573	50.0000	44.6940
21 Benzo(b)fluoranthene	252	7.283	7.279	(0.965)	561045	50.0000	50.7184(A)
22 Benzo(k)fluoranthene	252	7.304	7.301	(0.967)	693382	50.0000	53.6576(A)
23 Benzo(a)pyrene	252	7.512	7.509	(0.995)	532445	50.0000	62.8922(A)
25 Indeno(1,2,3-cd)pyrene	276	8.298	8.294	(1.099)	443933	50.0000	69.9173(AM)
26 Dibenzo(a,h)anthracene	278	8.324	8.321	(1.103)	447505	50.0000	53.2490(A)
27 Benzo(g,h,i)perylene	276	8.506	8.503	(1.127)	407273	50.0000	49.6104

QC Flag Legend

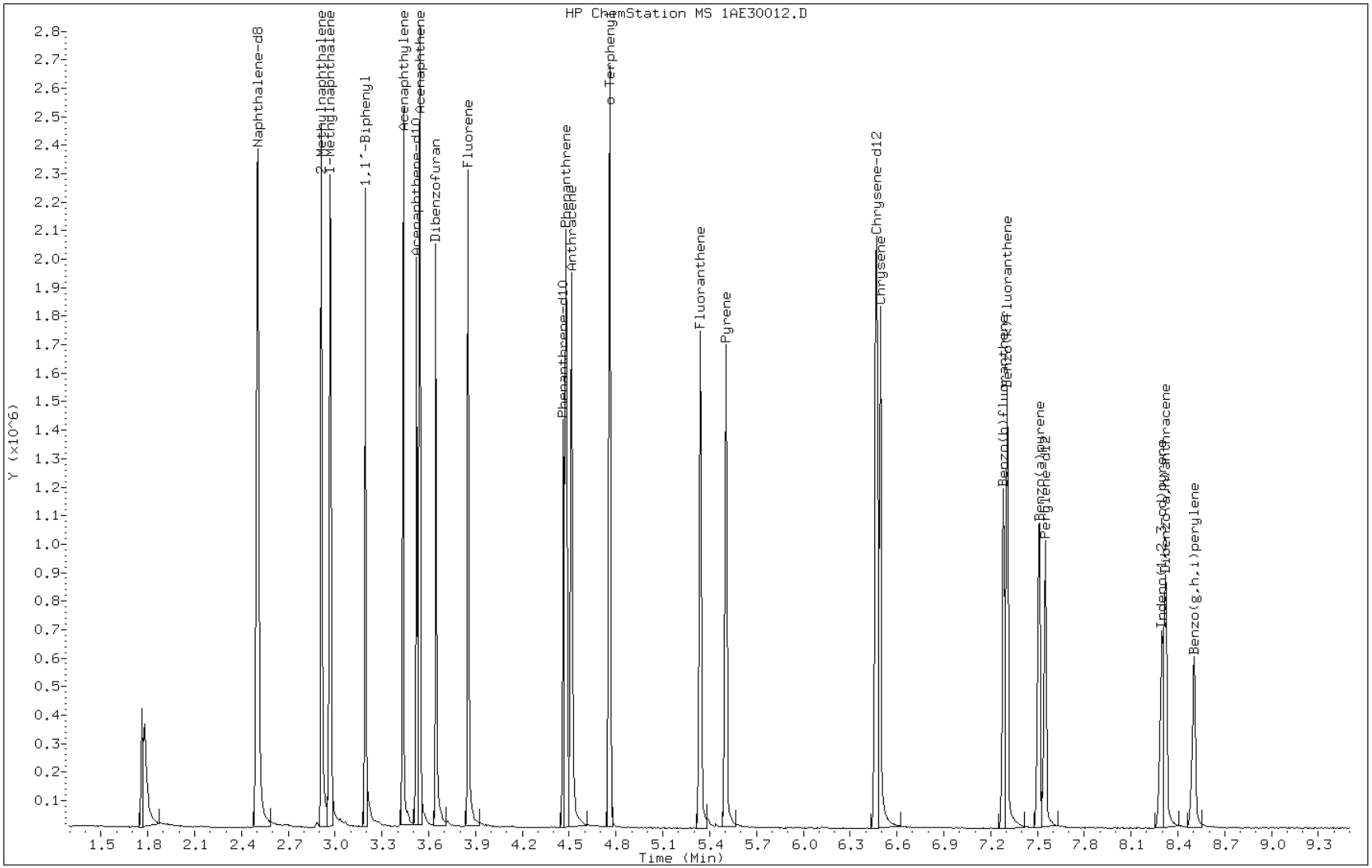
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AE30012.D

Date: 30-MAY-2013 16:38

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559465 Operator: TP



Manual Integration Report

Data File: 1AE30012.D
Inj. Date and Time: 30-MAY-2013 16:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 06/03/2013

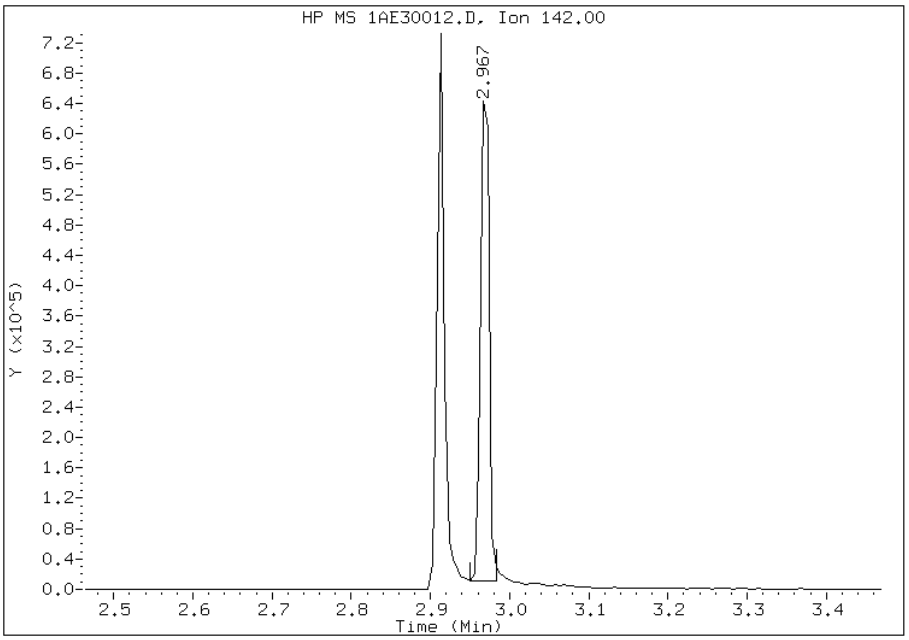
Processing Integration Results

RT: 2.97

Response: 471199

Amount: 51

Conc: 51



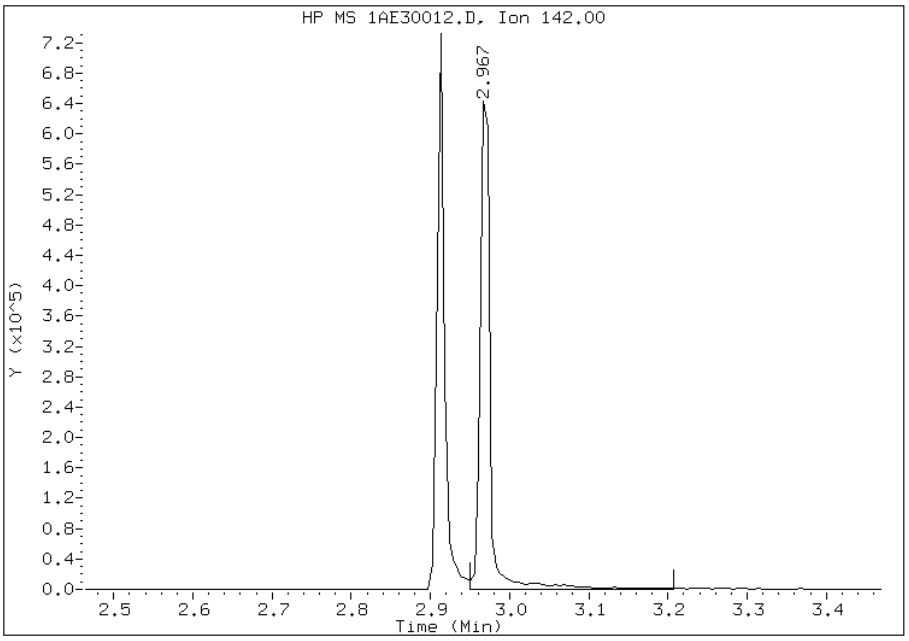
Manual Integration Results

RT: 2.97

Response: 547004

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30012.D
Inj. Date and Time: 30-MAY-2013 16:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 06/03/2013

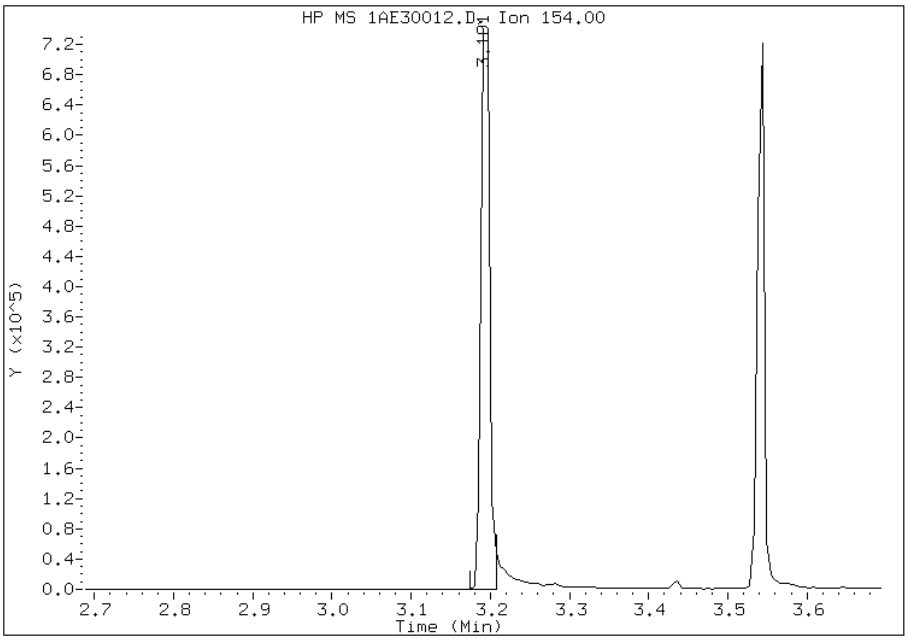
Processing Integration Results

RT: 3.19

Response: 563874

Amount: 50

Conc: 50



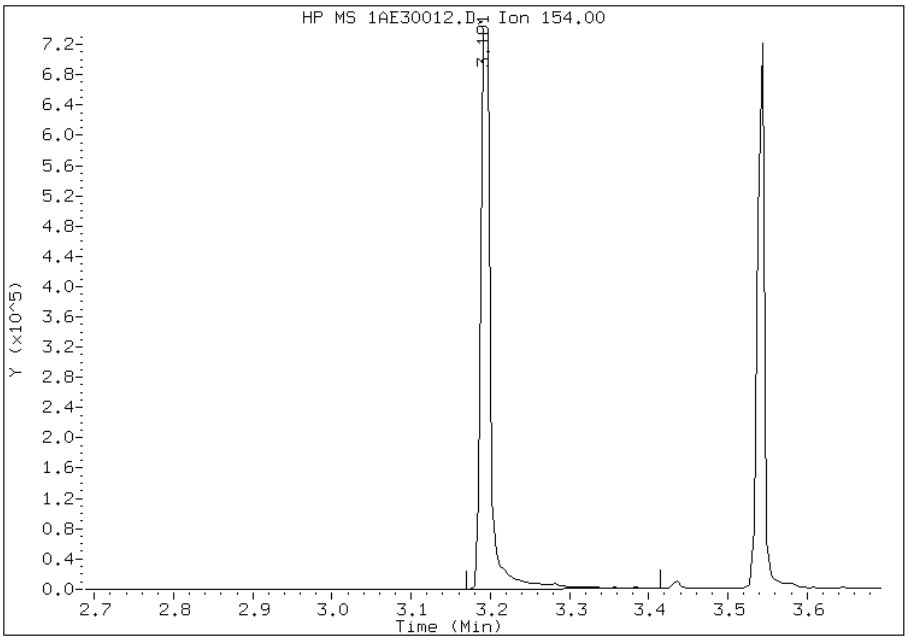
Manual Integration Results

RT: 3.19

Response: 630960

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30012.D
Inj. Date and Time: 30-MAY-2013 16:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

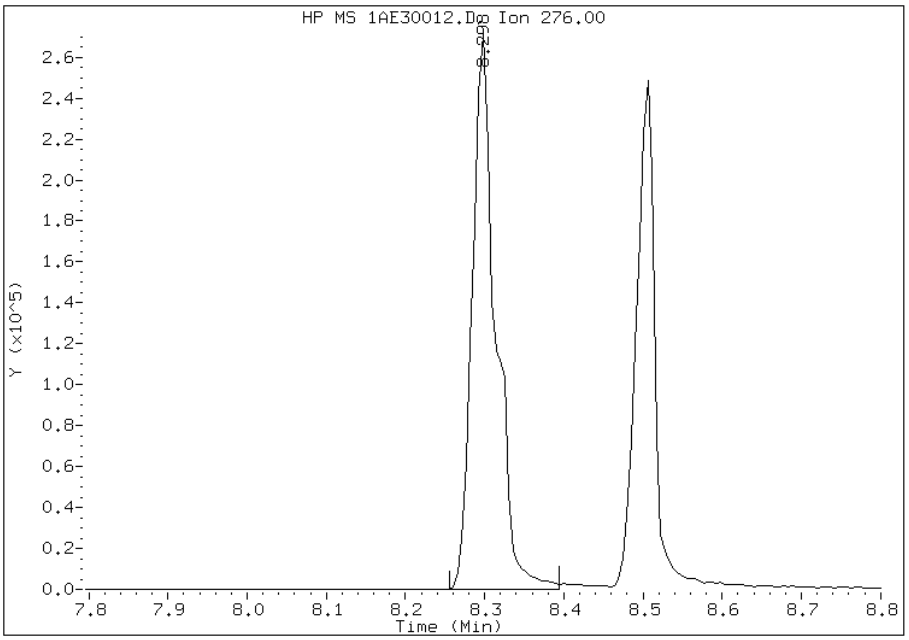
Processing Integration Results

RT: 8.30

Response: 555117

Amount: 55

Conc: 55



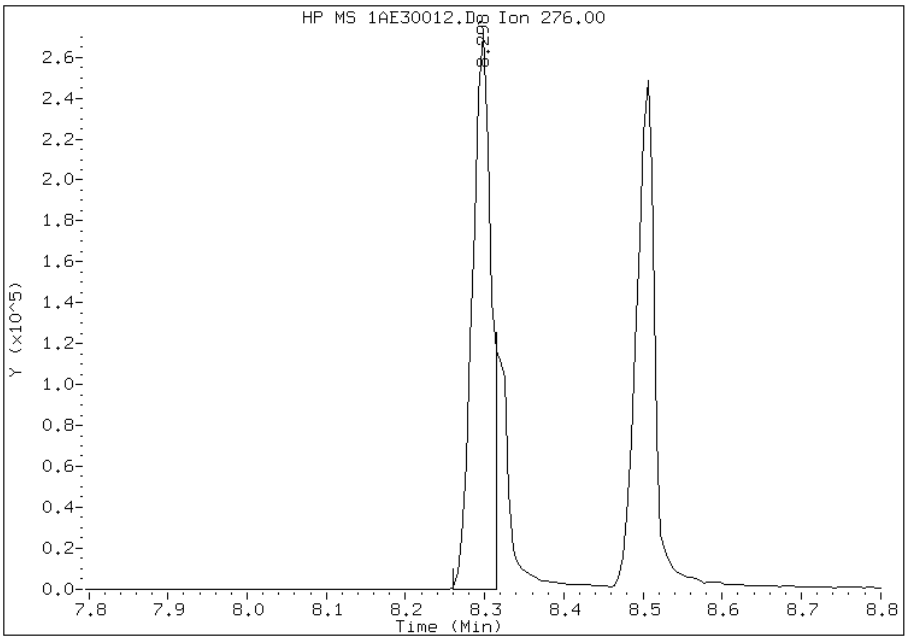
Manual Integration Results

RT: 8.30

Response: 443933

Amount: 70

Conc: 70



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:41
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-2 Analy Batch No.: 137704

SDG No.: 68090852-2

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.: 680-90852-2 Analy Batch No.: 137704

SDG No.: 68090852-2

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.: 680-90852-2 Analy Batch No.: 137704

SDG No.: 68090852-2

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.: 680-90852-2 Analy Batch No.: 137704

SDG No.: 68090852-2

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

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(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

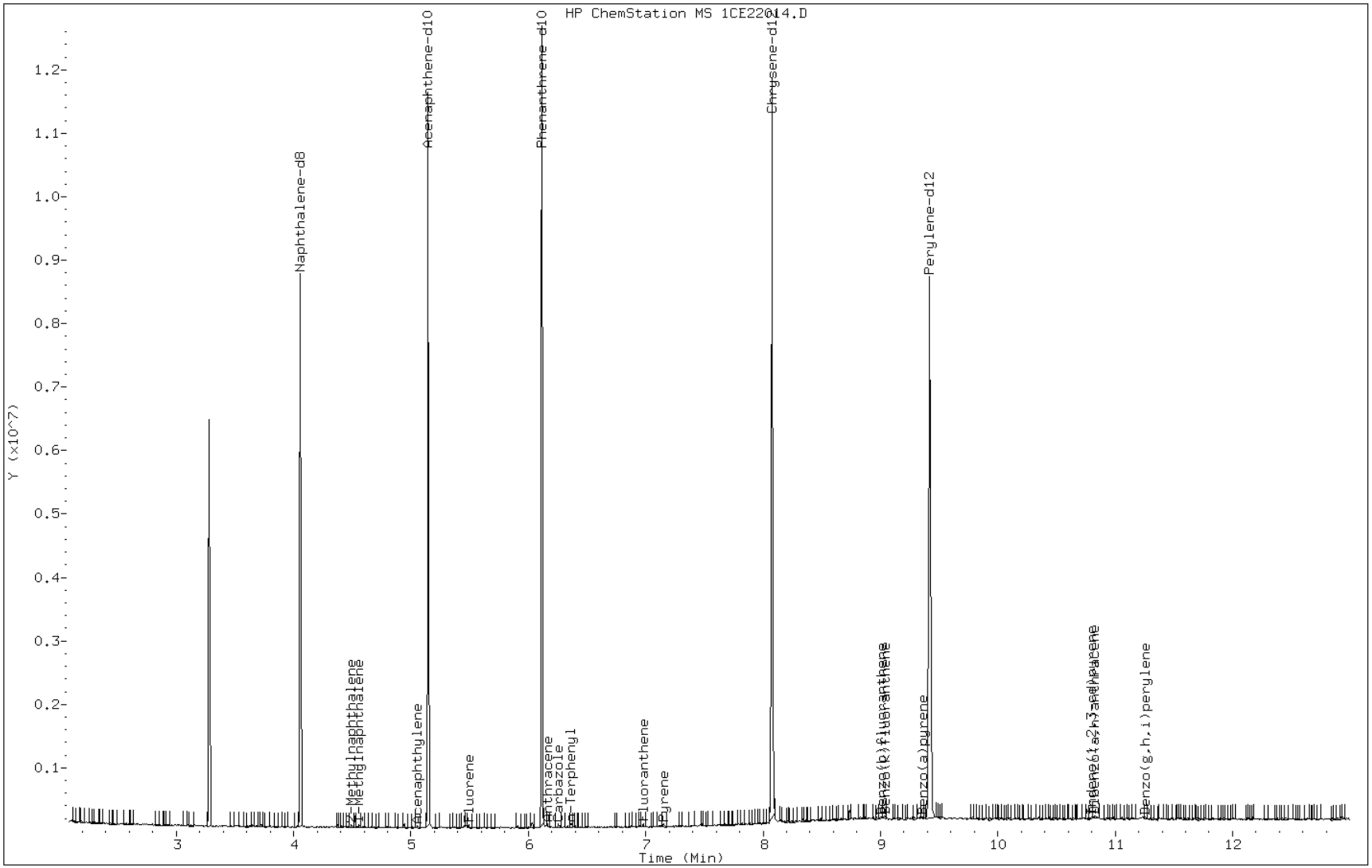
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

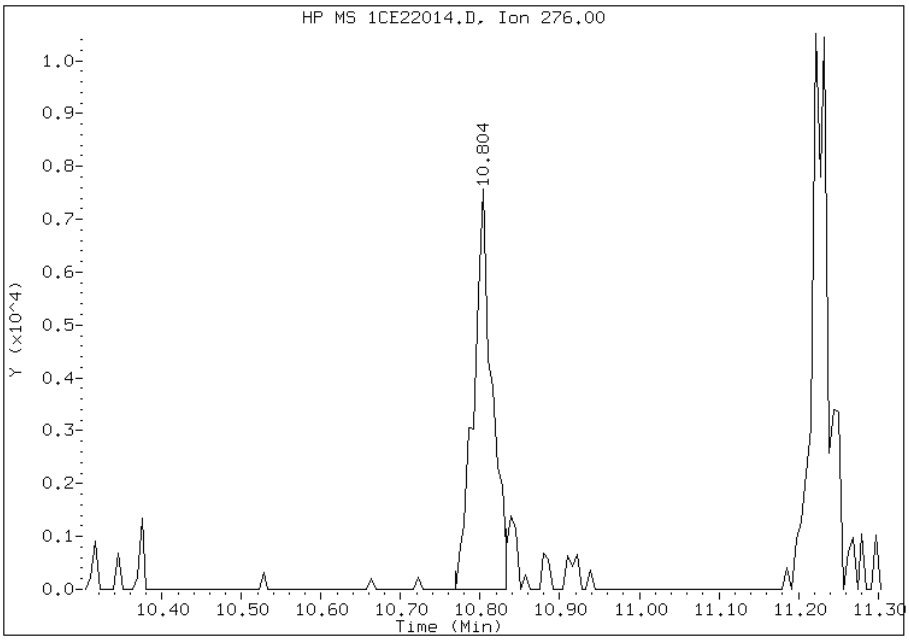
Processing Integration Results

RT: 10.80

Response: 12188

Amount: 1

Conc: 1



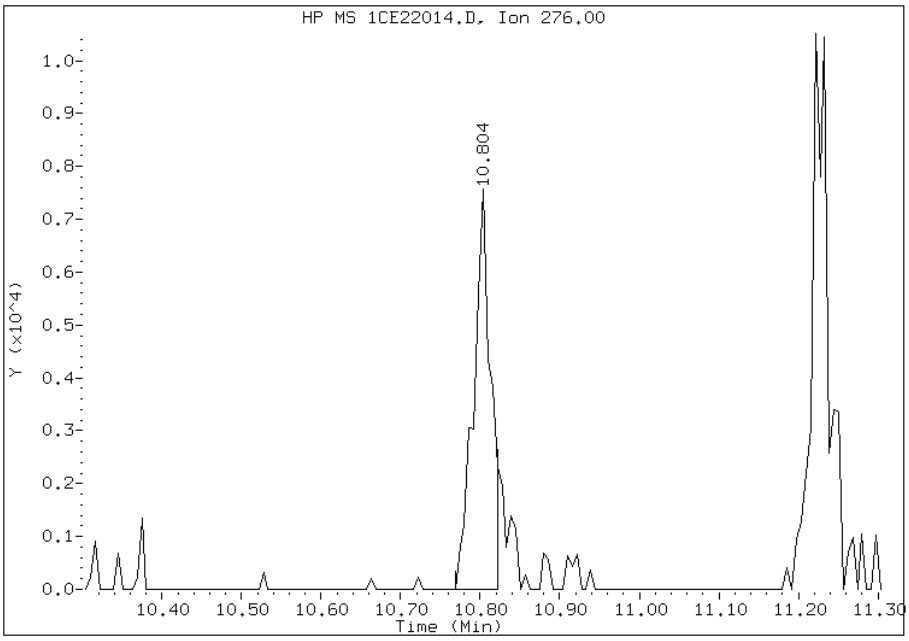
Manual Integration Results

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

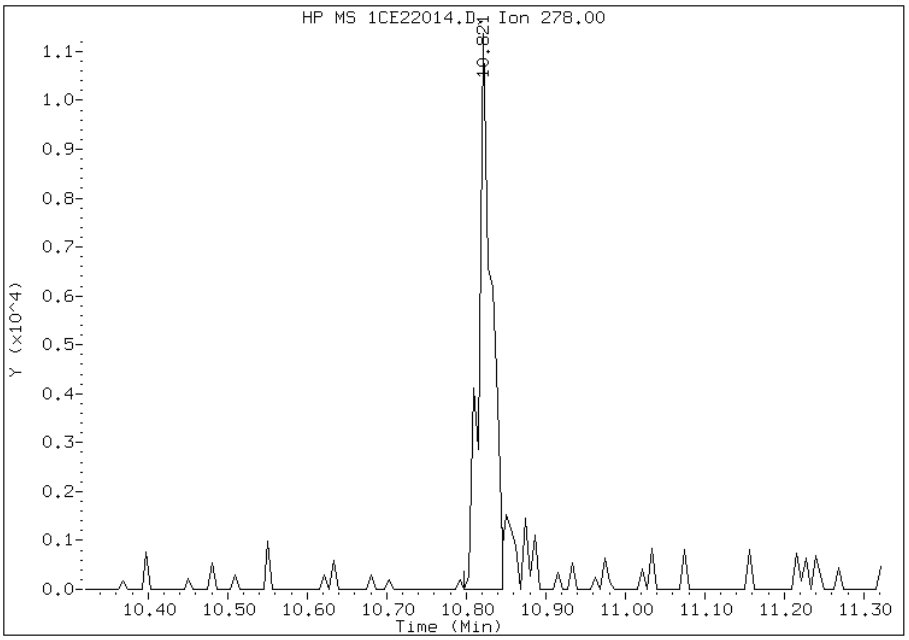
Processing Integration Results

RT: 10.82

Response: 12738

Amount: 0

Conc: 0



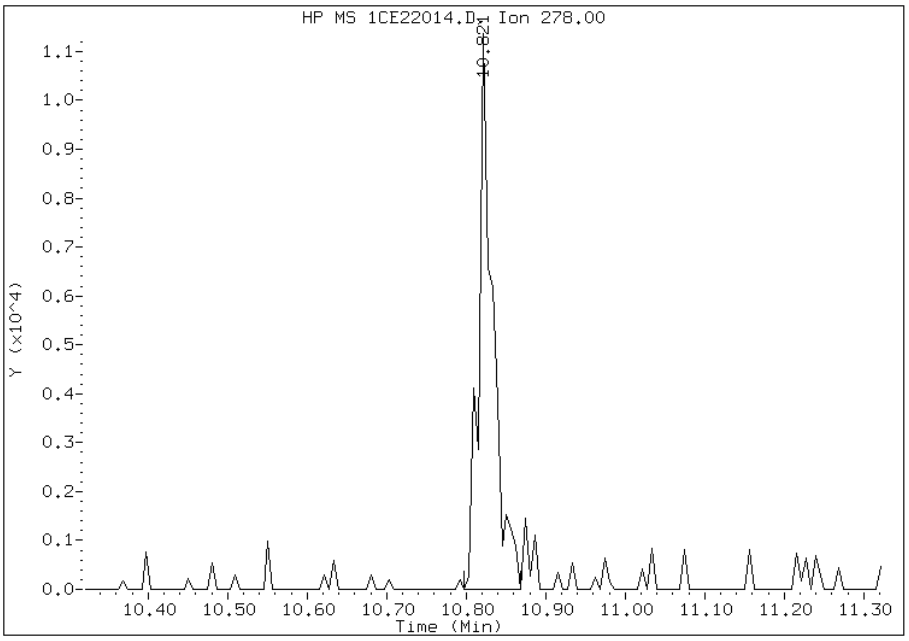
Manual Integration Results

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

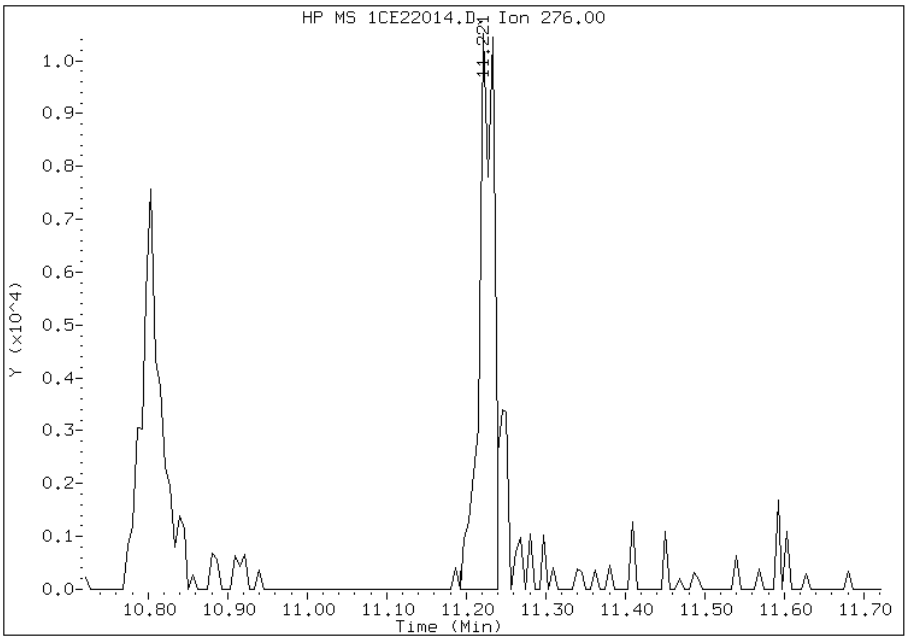
Processing Integration Results

RT: 11.22

Response: 13709

Amount: 0

Conc: 0



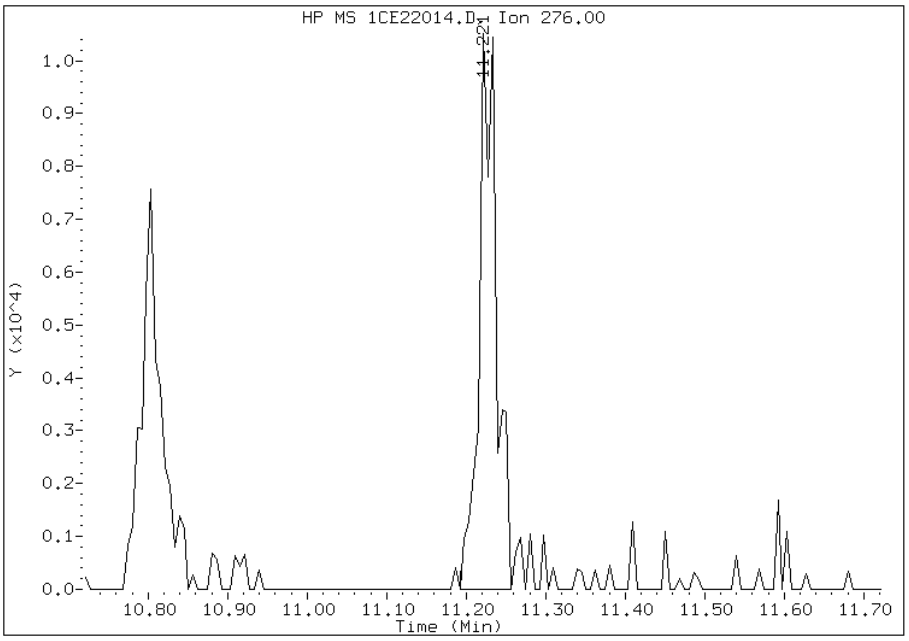
Manual Integration Results

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

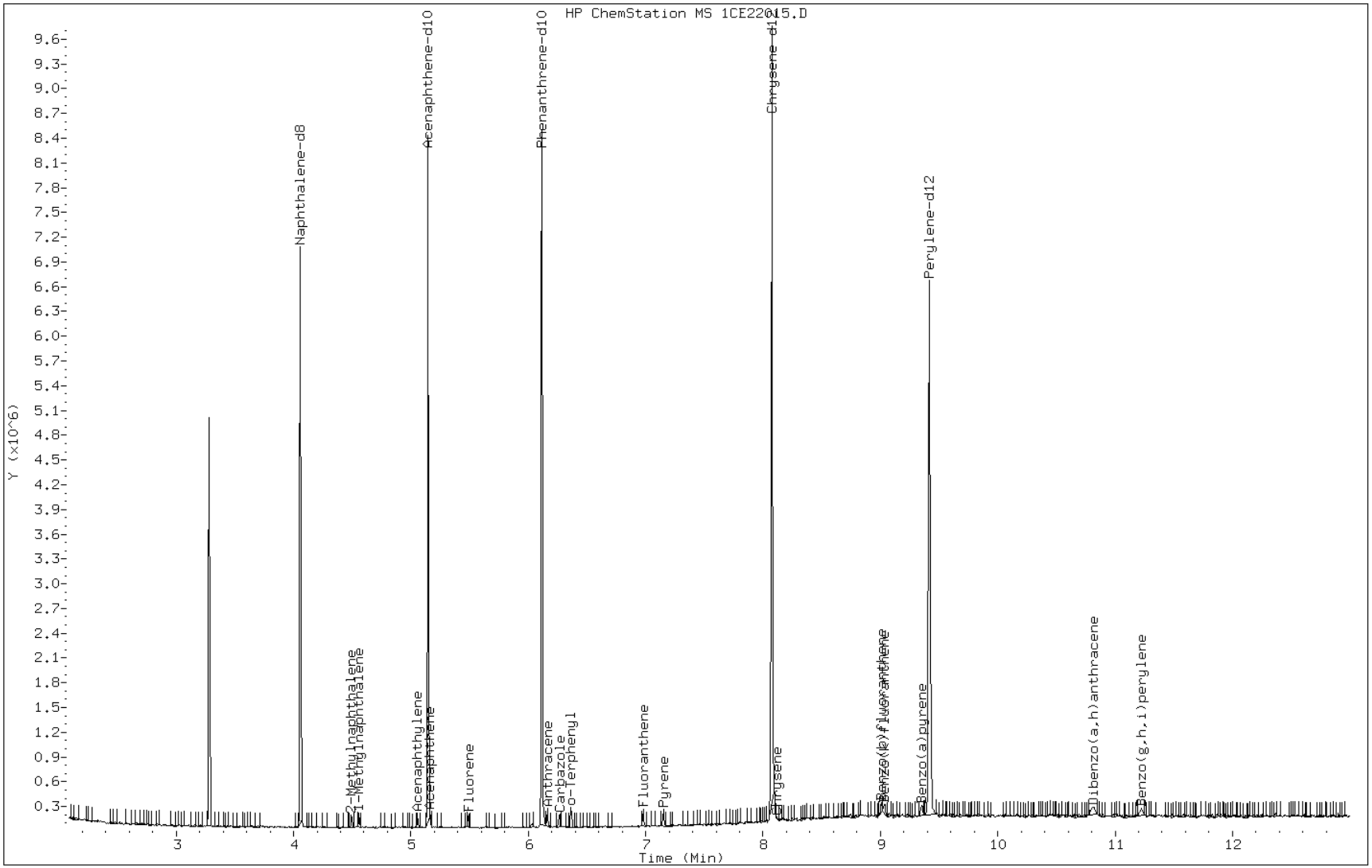
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

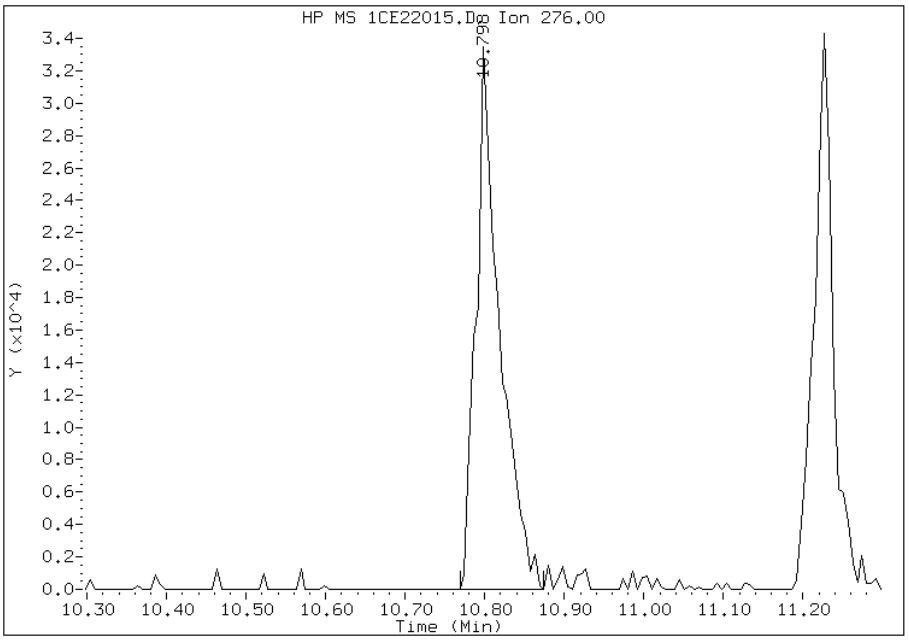
Processing Integration Results

RT: 10.80

Response: 69013

Amount: 1

Conc: 1



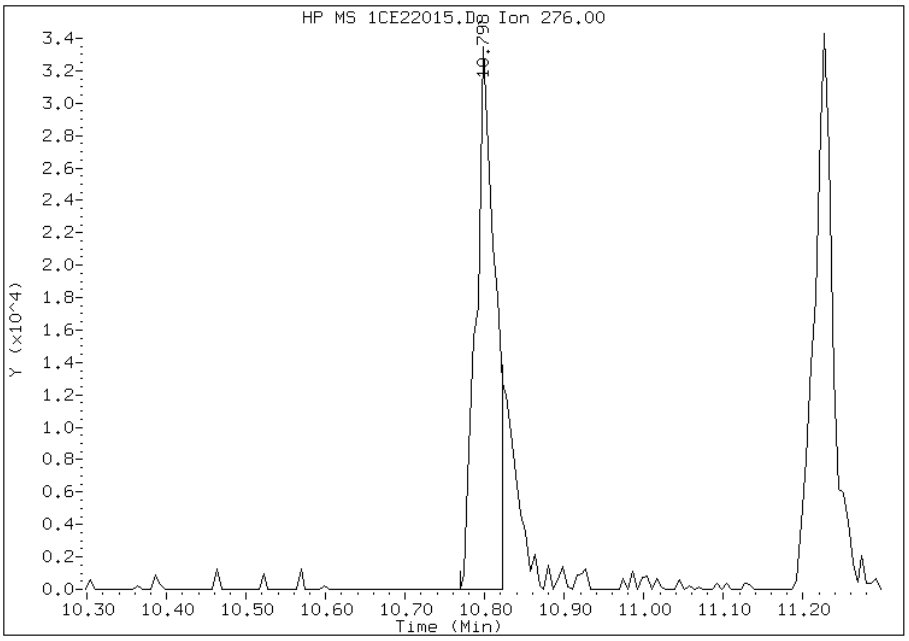
Manual Integration Results

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

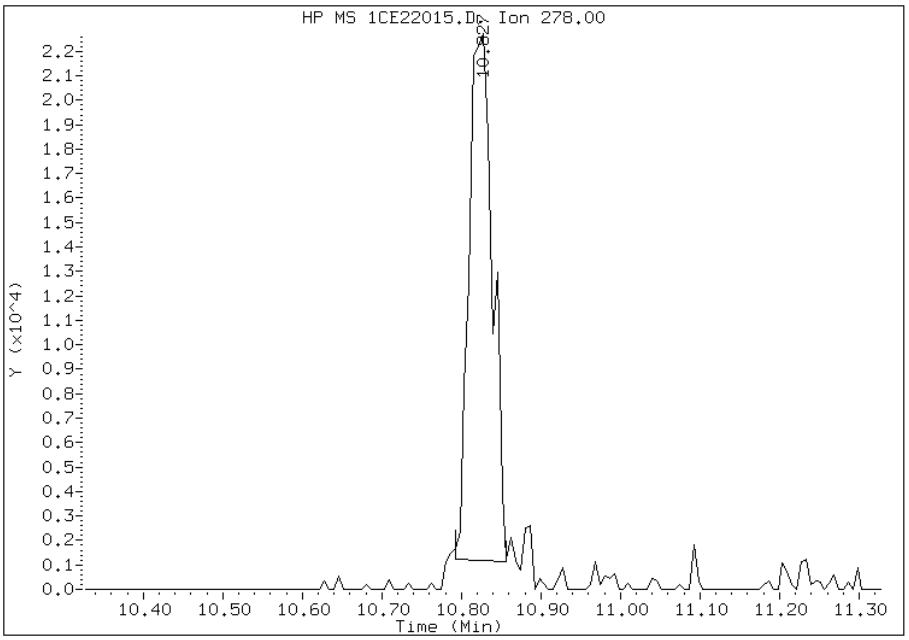
Processing Integration Results

RT: 10.83

Response: 43916

Amount: 1

Conc: 1



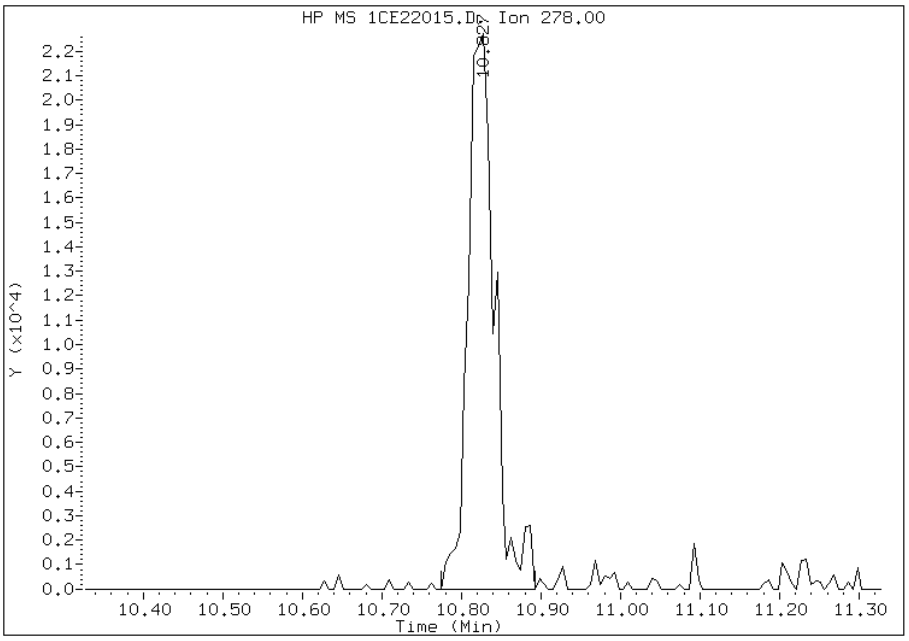
Manual Integration Results

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

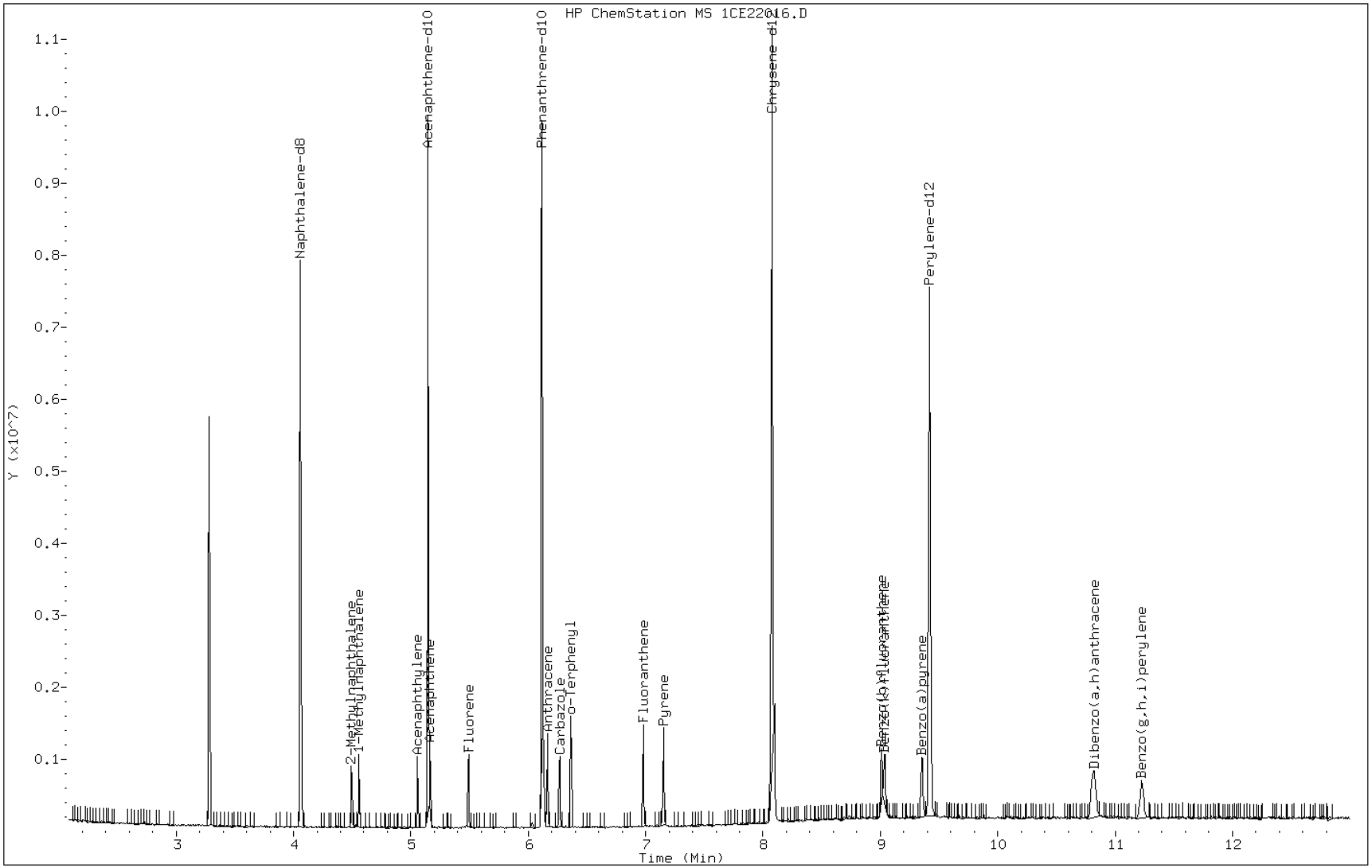
M - Compound response manually integrated.

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

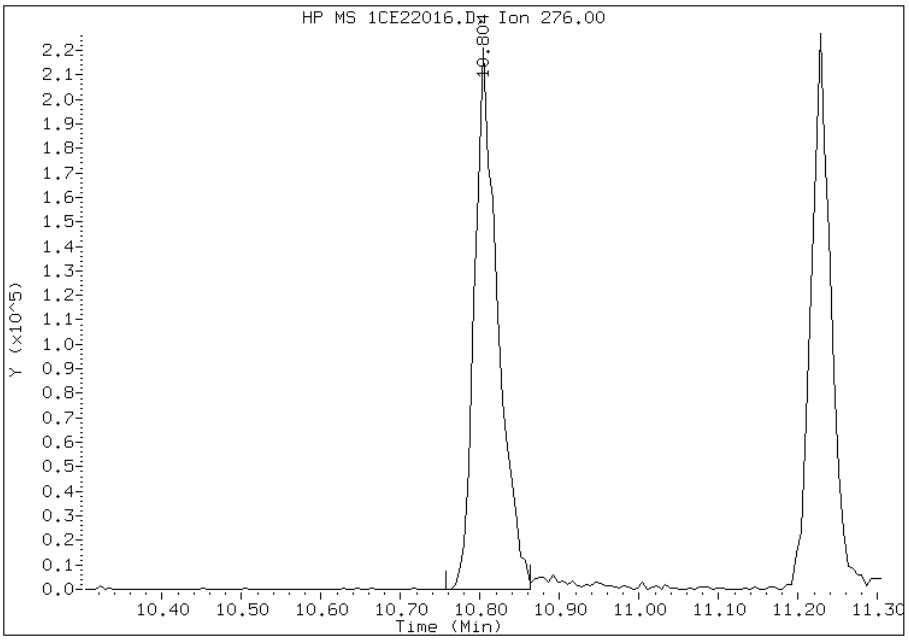
Processing Integration Results

RT: 10.80

Response: 449154

Amount: 5

Conc: 5



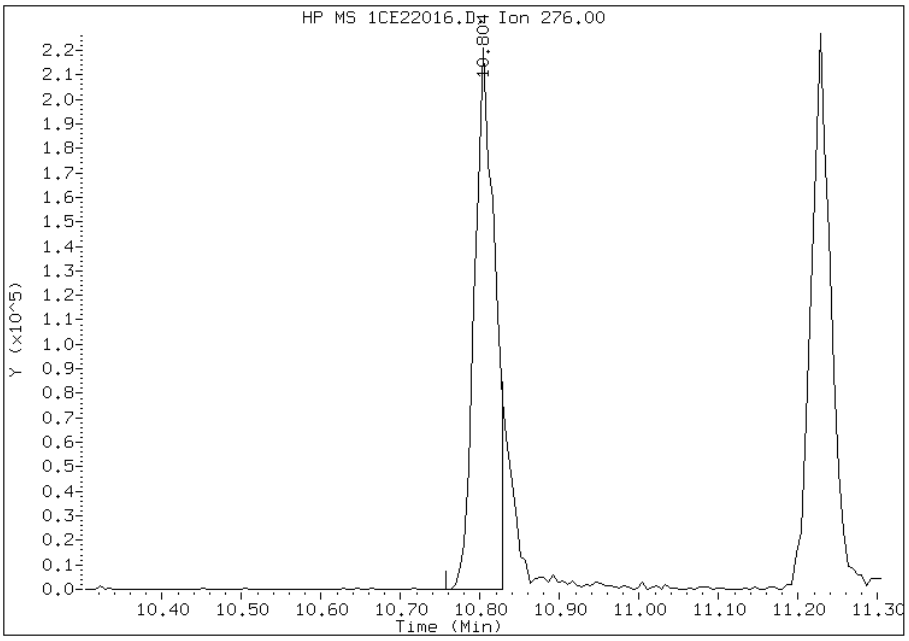
Manual Integration Results

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)	AMOUNTS 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

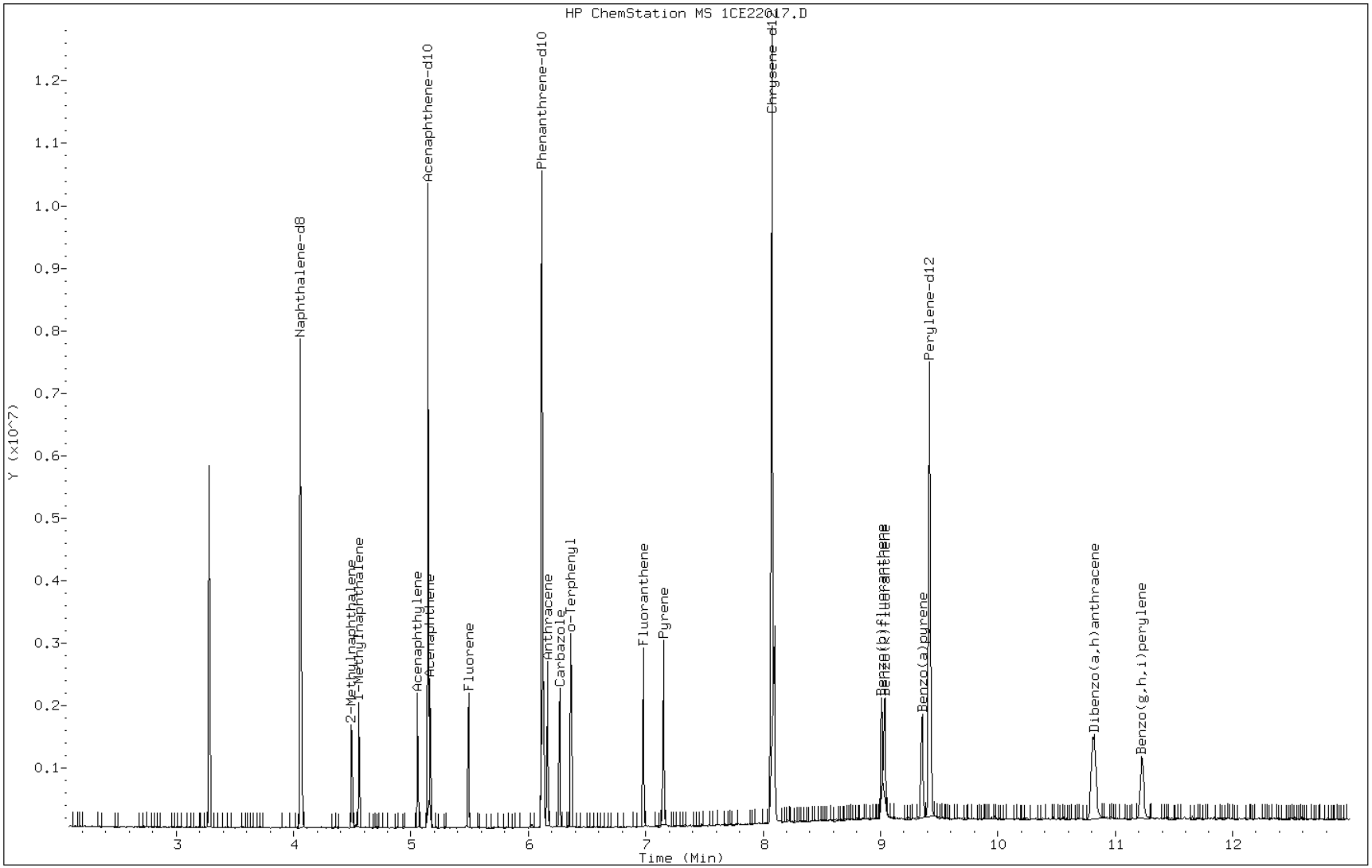
M - Compound response manually integrated.

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

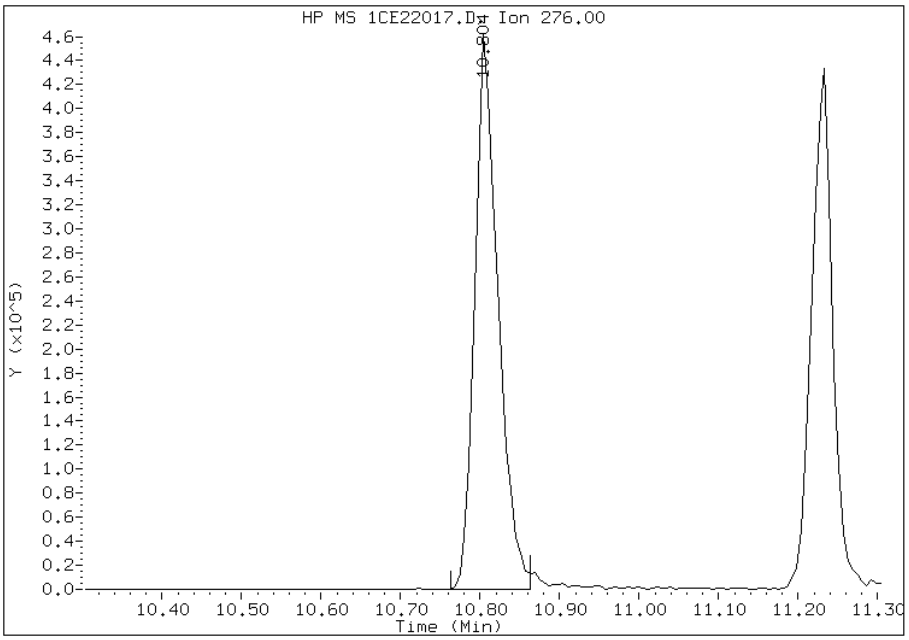
Processing Integration Results

RT: 10.80

Response: 934640

Amount: 10

Conc: 10



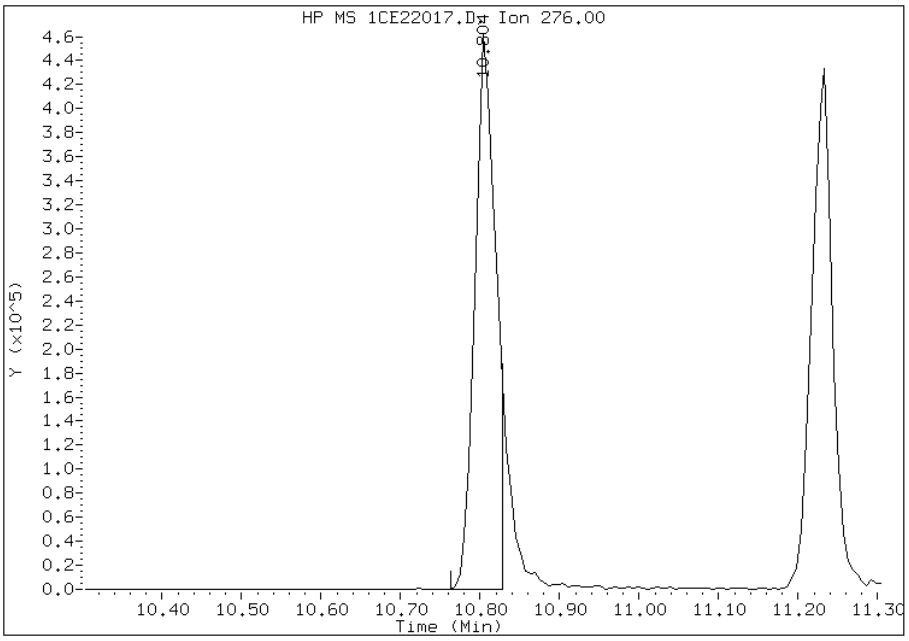
Manual Integration Results

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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(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

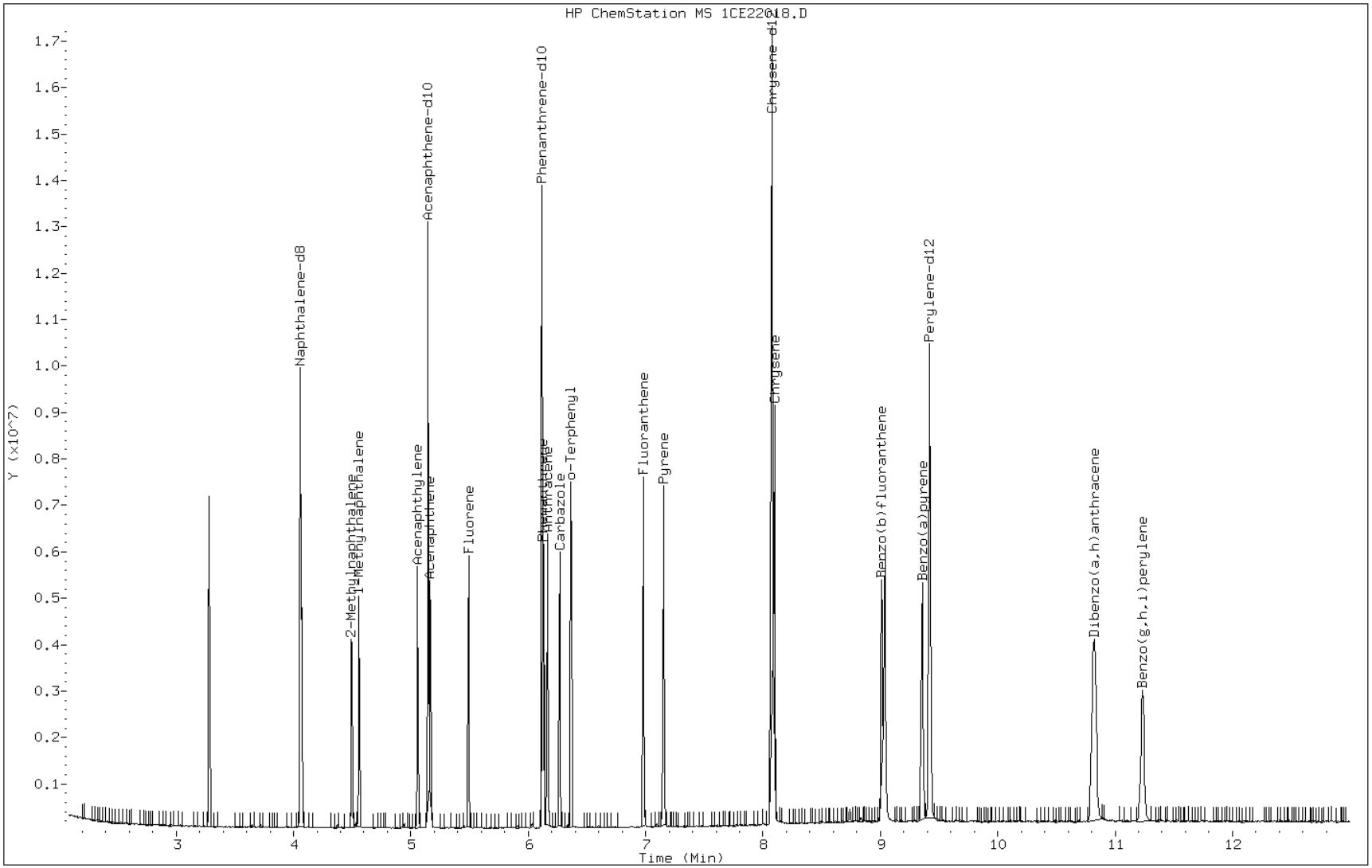
Date: 22-MAY-2013 17:29

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

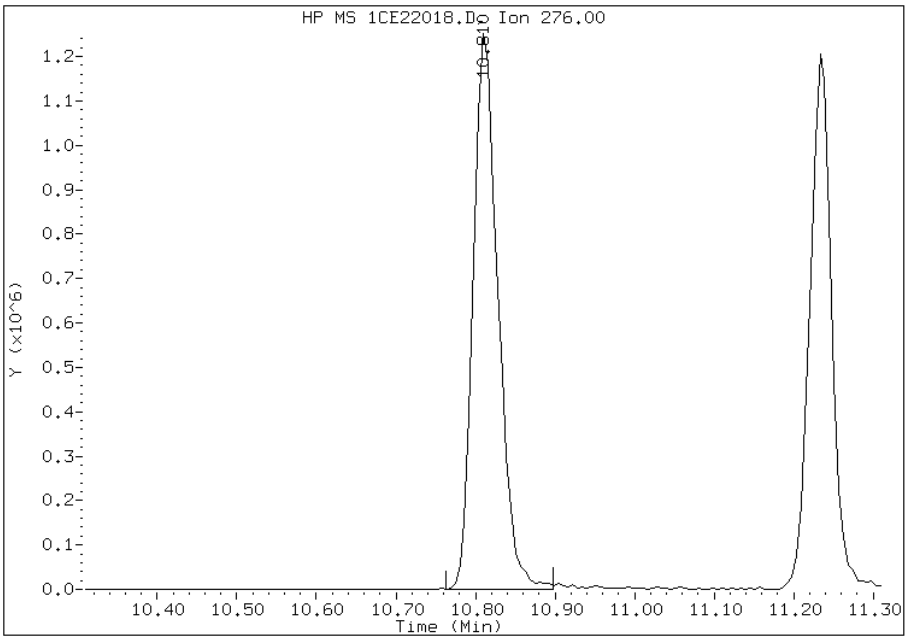
Processing Integration Results

RT: 10.81

Response: 2702405

Amount: 21

Conc: 21



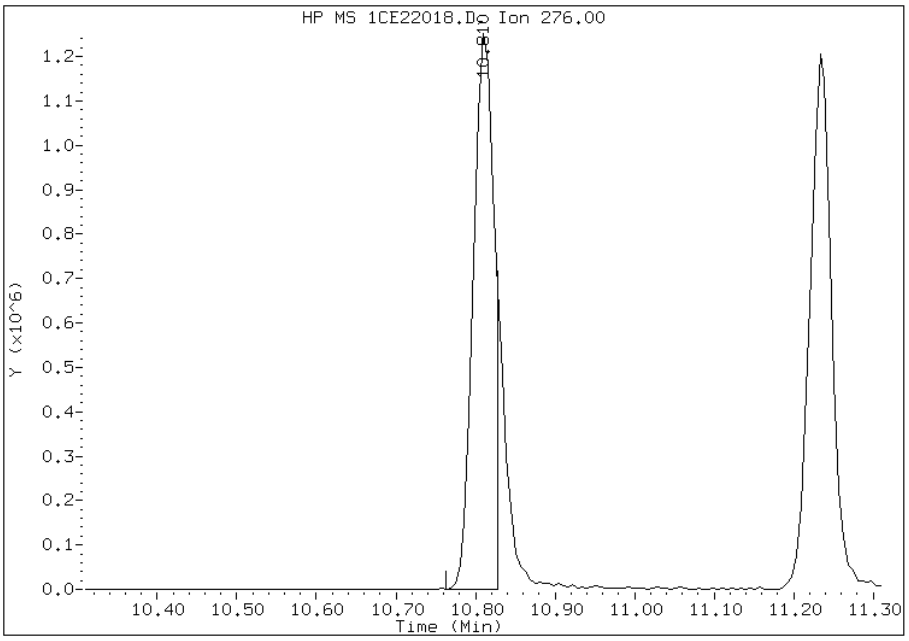
Manual Integration Results

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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(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

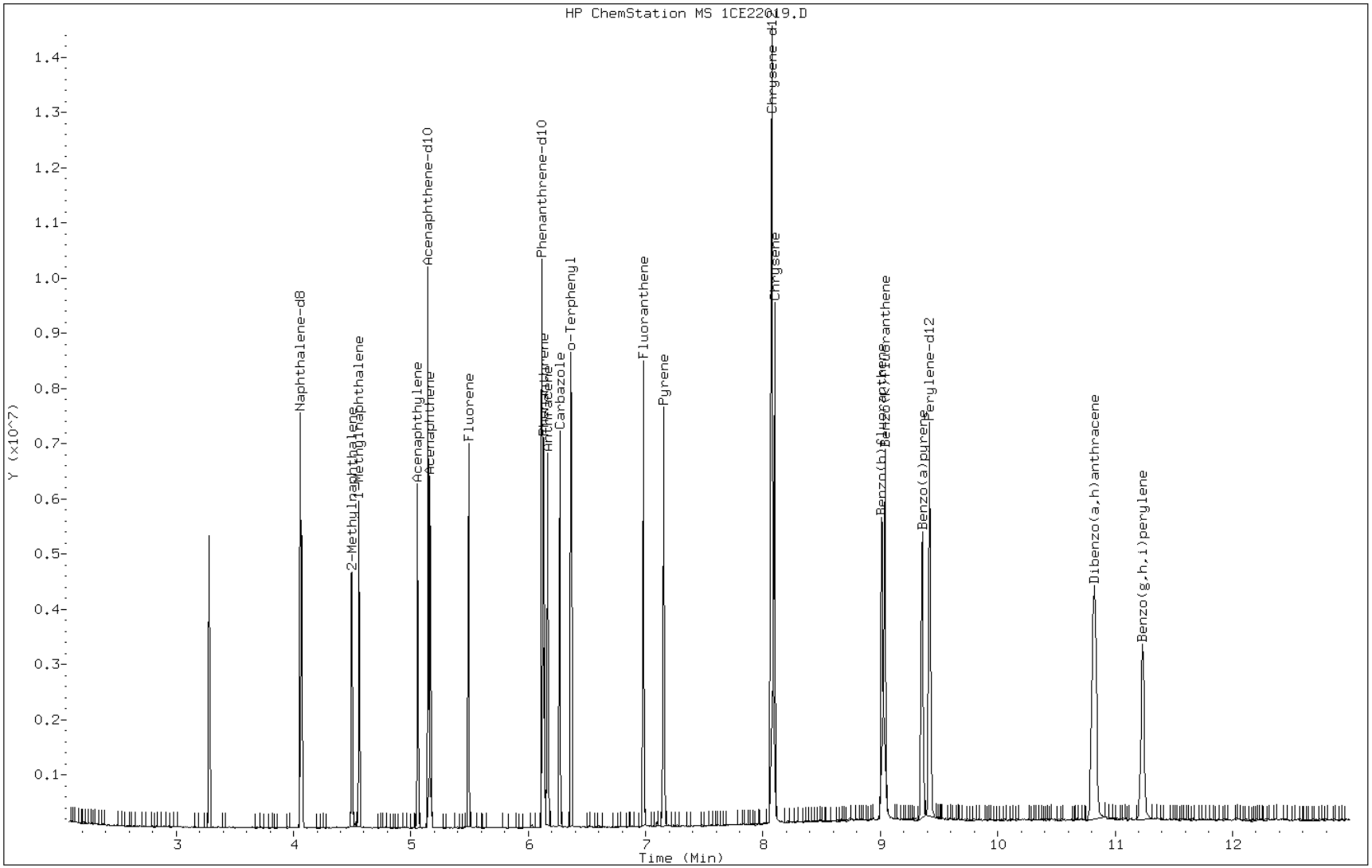
Date: 22-MAY-2013 17:47

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

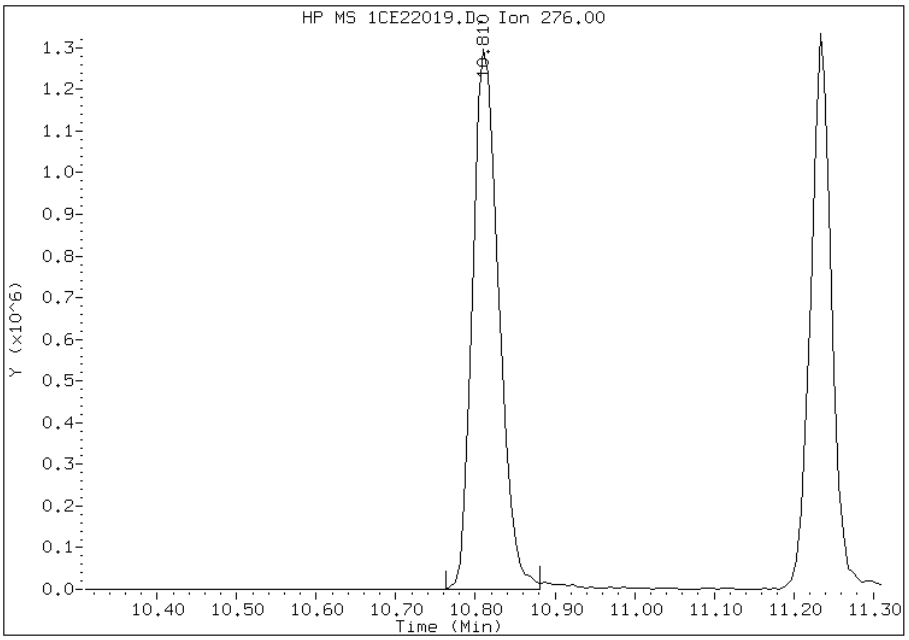
Processing Integration Results

RT: 10.81

Response: 2965644

Amount: 32

Conc: 32



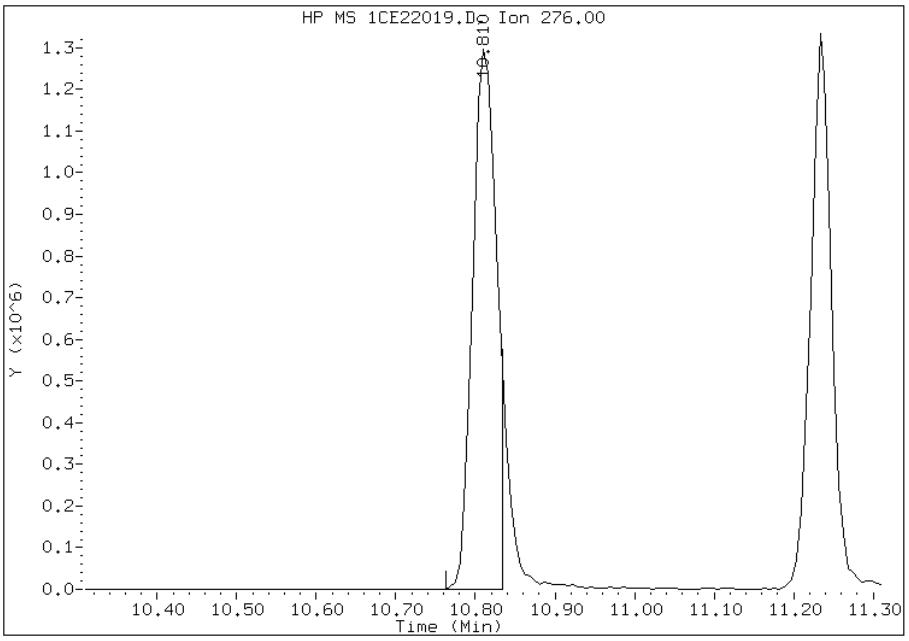
Manual Integration Results

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)	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

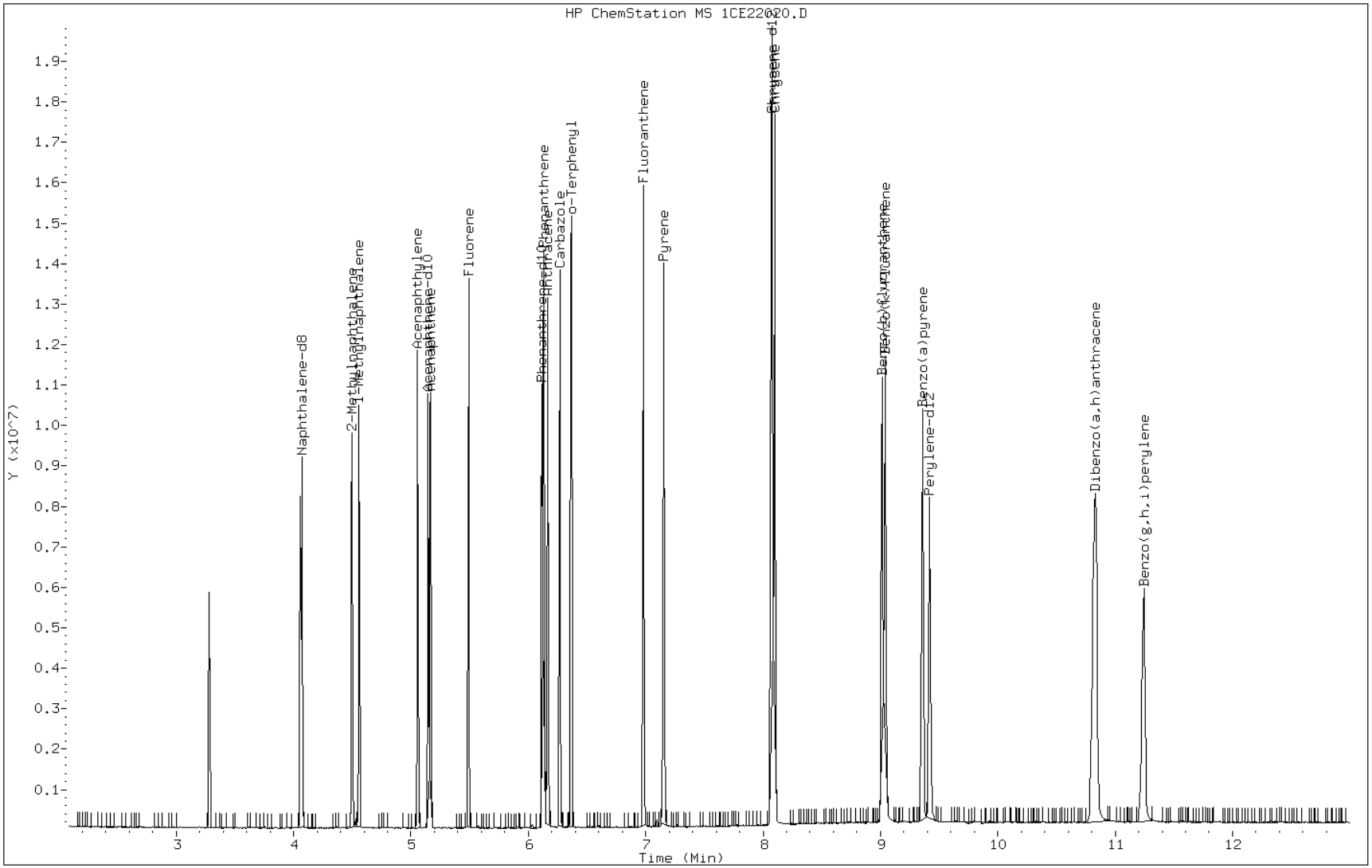
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

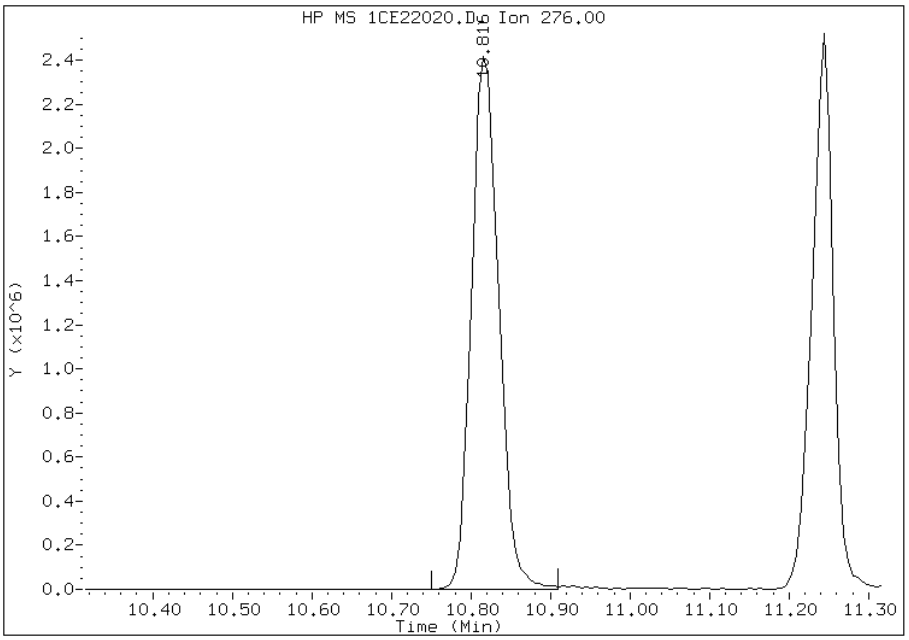
Processing Integration Results

RT: 10.82

Response: 5750303

Amount: 52

Conc: 52



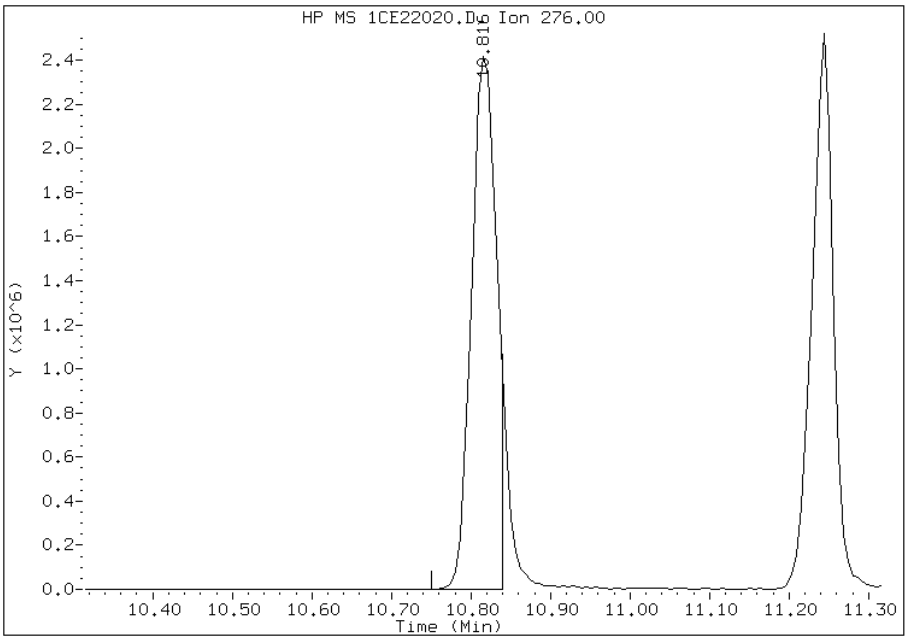
Manual Integration Results

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.: 680-90852-2 Analy Batch No.: 137830

SDG No.: 68090852-2

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.: 680-90852-2 Analy Batch No.: 137830

SDG No.: 68090852-2

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.: 680-90852-2 Analy Batch No.: 137830

SDG No.: 68090852-2

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.: 680-90852-2 Analy Batch No.: 137830

SDG No.: 68090852-2

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

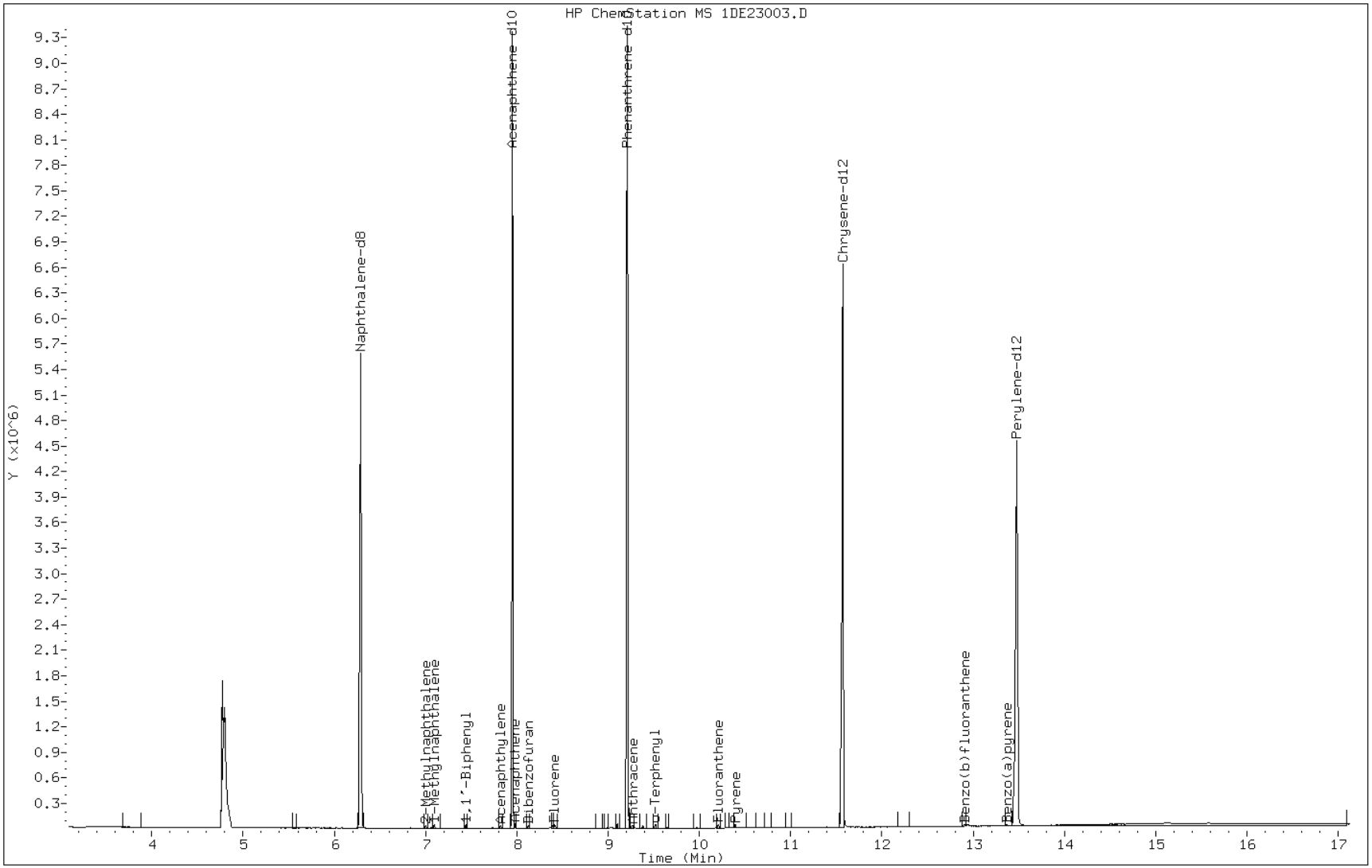
Date: 23-MAY-2013 13:03

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

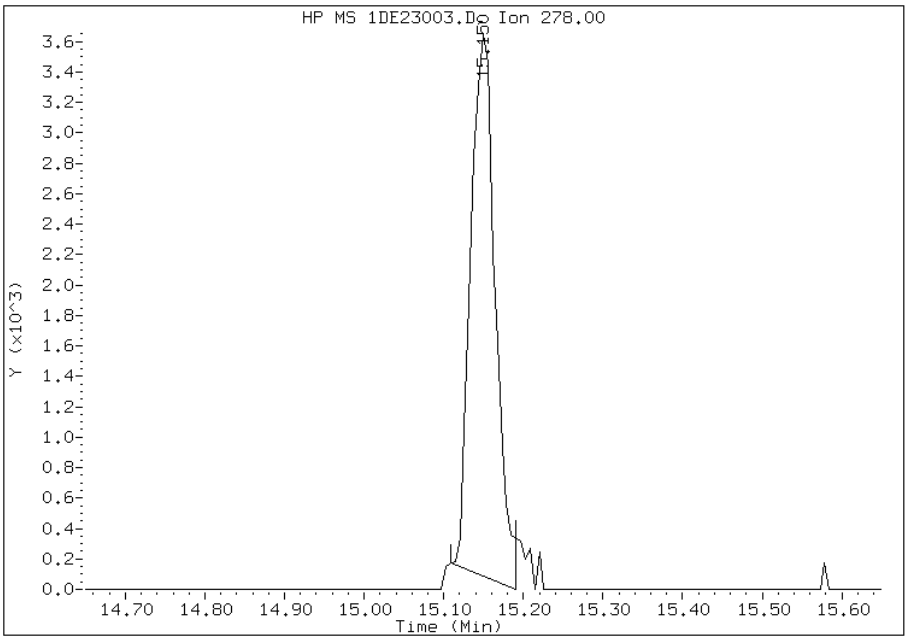
Processing Integration Results

RT: 15.15

Response: 7611

Amount: 0

Conc: 0



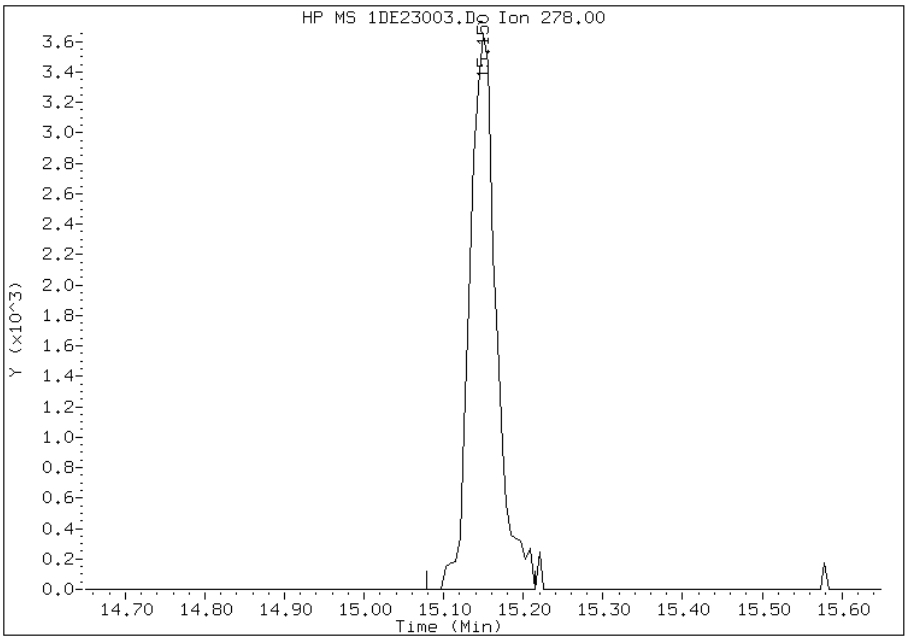
Manual Integration Results

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

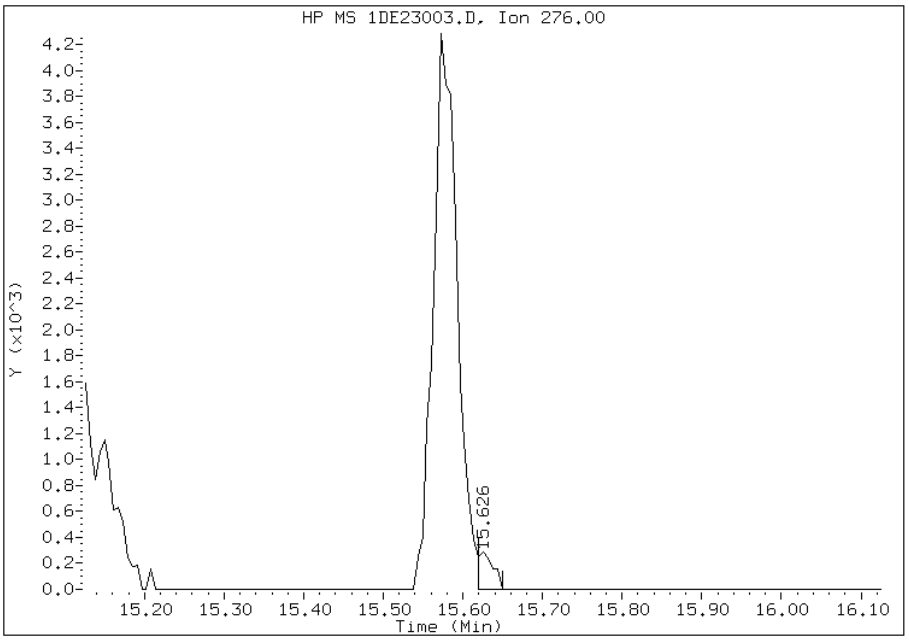
Processing Integration Results

RT: 15.63

Response: 387

Amount: 0

Conc: 0



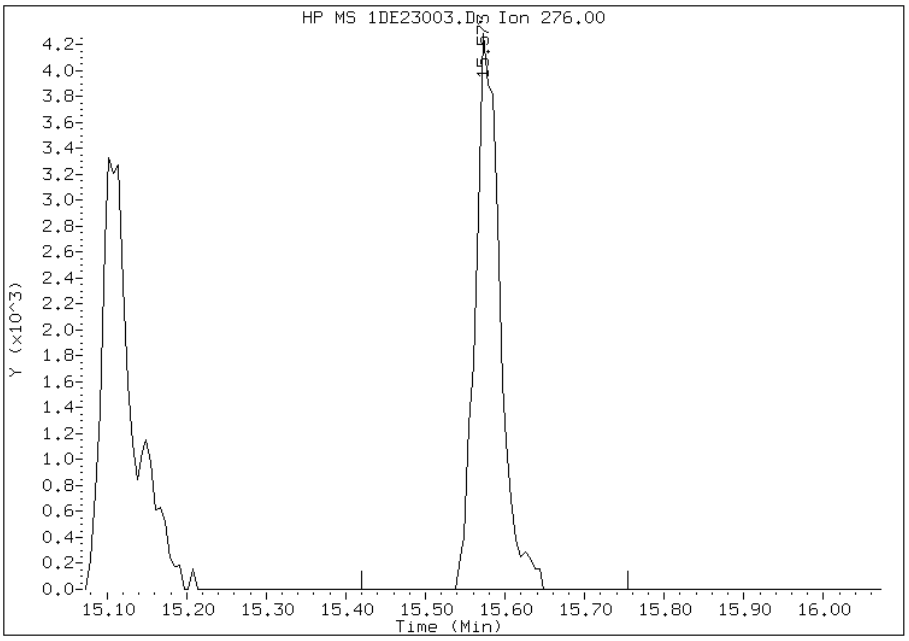
Manual Integration Results

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

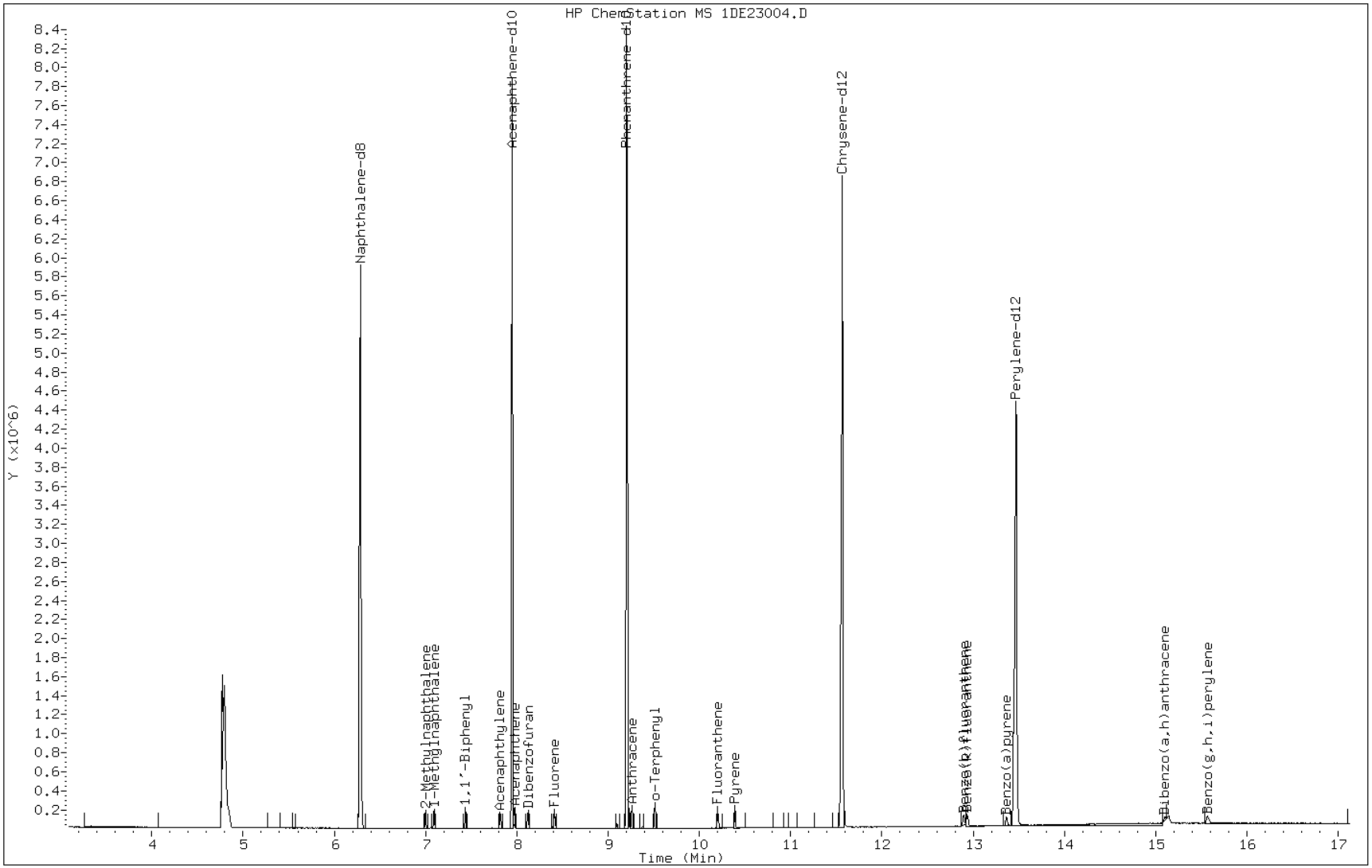
Date: 23-MAY-2013 13:26

Client ID:

Instrument: BSMSD.i

Sample Info: IC2

Operator: SCC



TestAmerica Laboratories

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

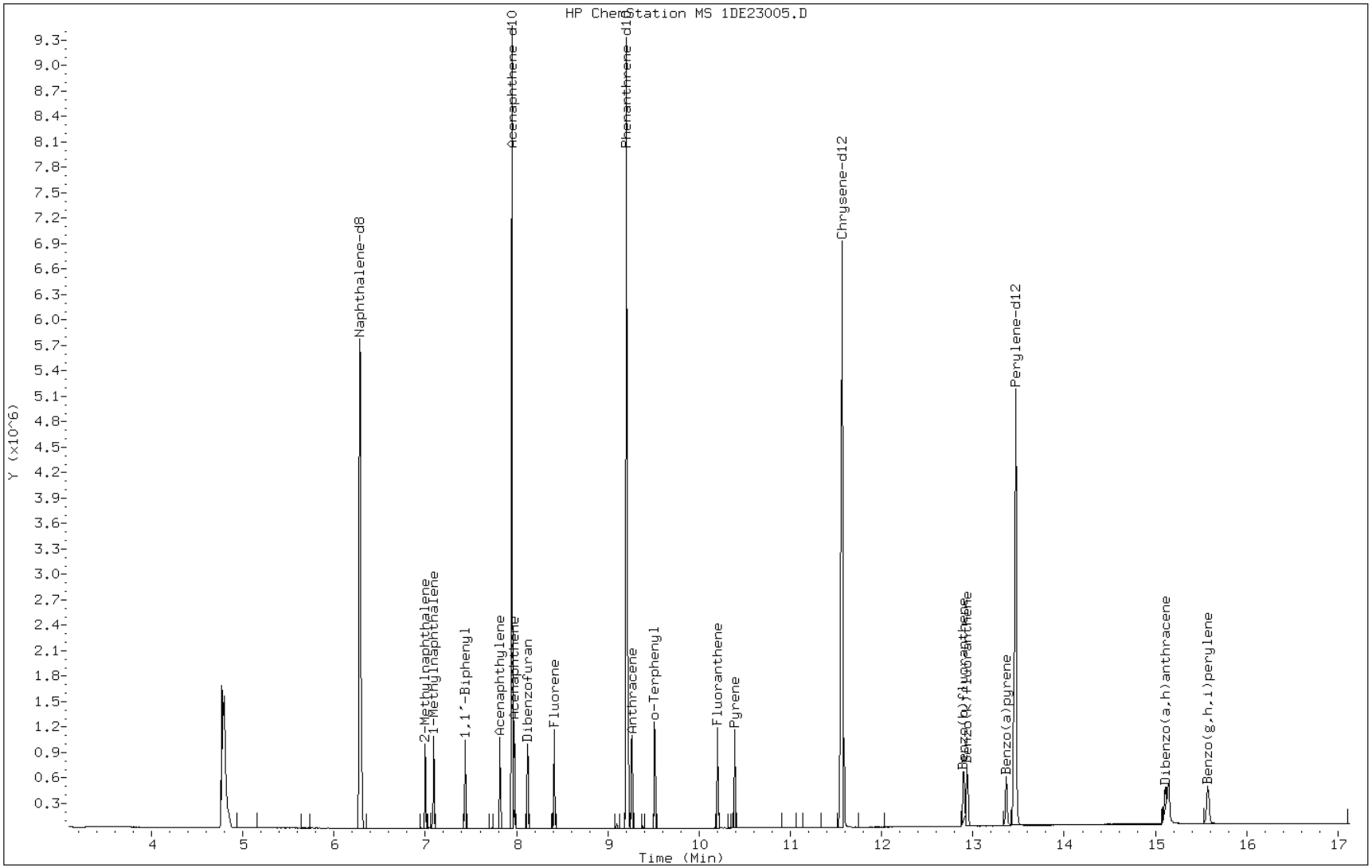
Date: 23-MAY-2013 13:48

Client ID:

Instrument: BSMSD.i

Sample Info: IC3

Operator: SCC



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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

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	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

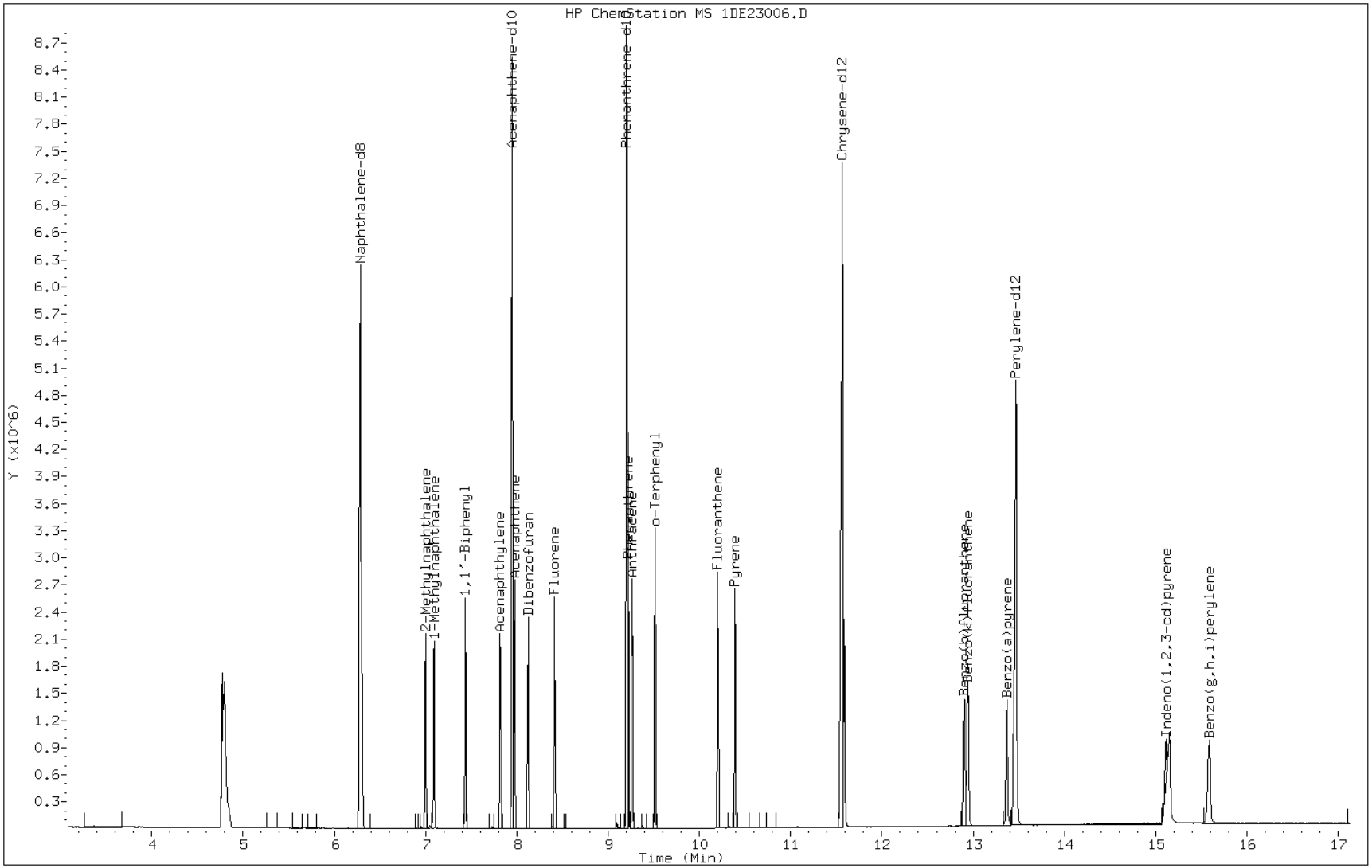
Date: 23-MAY-2013 14:11

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

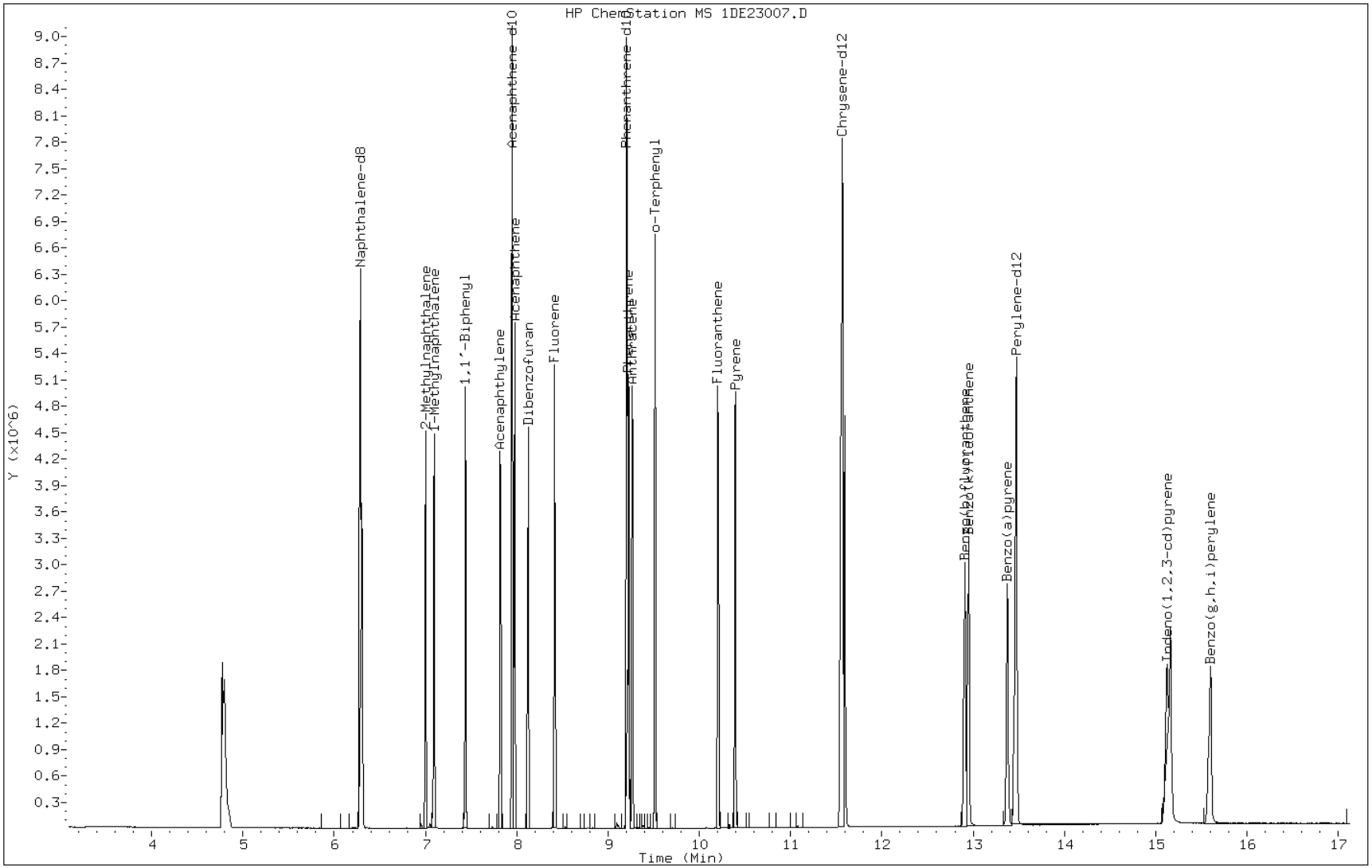
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.284	6.284	(1.000)	3209942	40.0000	
*	7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(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

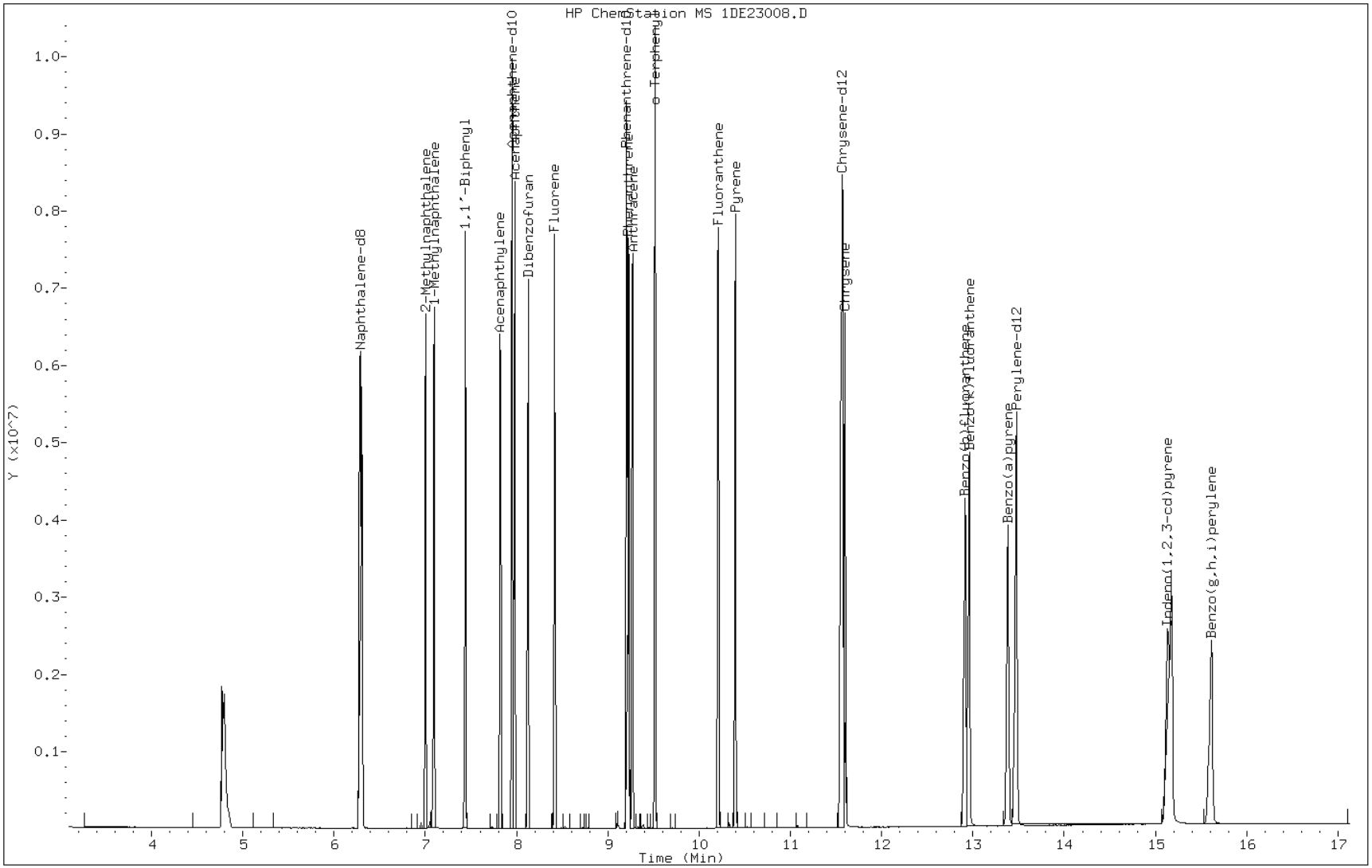
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
$	15 o-Terphenyl	230	9.518	9.518	(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

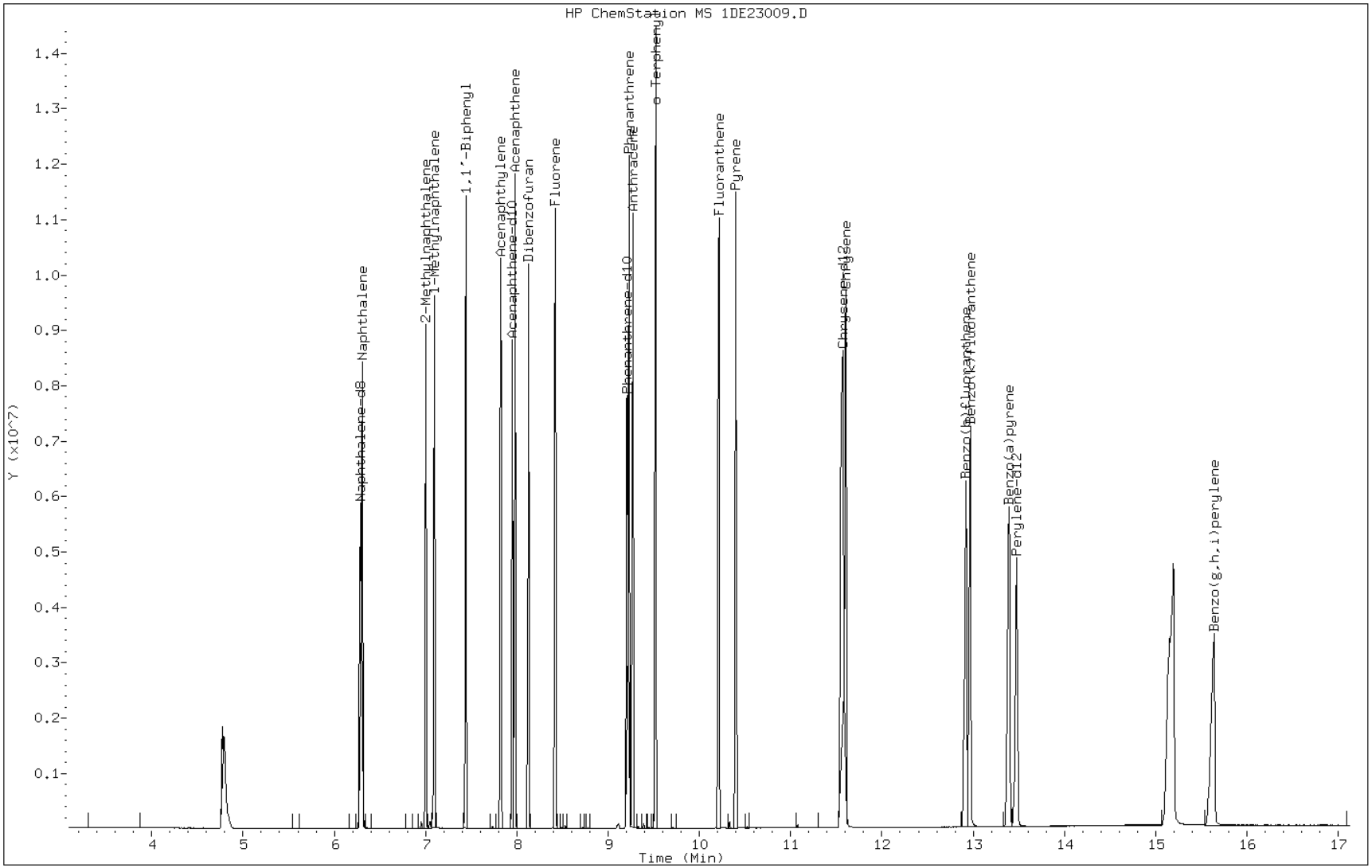
Date: 23-MAY-2013 15:19

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.: 680-90852-2

SDG No.: 68090852-2

Lab Sample ID: ICV 660-137917/14 Calibration Date: 05/30/2013 16:53

Instrument ID: BSMA5973 Calib Start Date: 05/30/2013 15:07

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/30/2013 16:38

Lab File ID: 1AE30013.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.8616	0.9580	0.0000	22200	20000	11.2	35.0
2-Methylnaphthalene	None		0.4646	0.0000	20800	20000	4.1	35.0
1-Methylnaphthalene	Ave	0.6029	0.6328	0.0000	21000	20000	5.0	35.0
Acenaphthylene	None		1.941	0.0000	20800	20000	3.9	35.0
Acenaphthene	Ave	0.9226	1.019	0.0000	22100	20000	10.4	35.0
Dibenzofuran	None		1.430		20300	20000	1.3	
Fluorene	None		1.123	0.0000	21300	20000	6.6	35.0
Phenanthrene	Ave	0.8573	0.9519	0.0000	22200	20000	11.0	35.0
Anthracene	Ave	0.9473	0.999	0.0000	21100	20000	5.4	35.0
Fluoranthene	None		1.112	0.0000	22300	20000	11.3	35.0
Pyrene	Ave	1.156	1.259	0.0000	21800	20000	9.0	35.0
Benzo[a]anthracene	Ave	1.075	1.128	0.0000	21000	20000	5.0	35.0
Chrysene	Ave	1.176	1.214	0.0000	20600	20000	3.2	35.0
Benzo[b]fluoranthene	Qua	0.9947	1.109	0.0000	20200	20000	0.9	35.0
Benzo[k]fluoranthene	Lin2	1.257	1.513	0.0000	21100	20000	5.7	35.0
Benzo[a]pyrene	Ave	0.9756	1.063	0.0000	21800	20000	9.0	35.0
Indeno[1,2,3-cd]pyrene	Qua	0.7458	0.7978	0.0000	20500	20000	2.4	35.0
Dibenz(a,h)anthracene	None		0.9298	0.0000	20000	20000	-0.0	35.0
Benzo[g,h,i]perylene	Ave	0.8711	0.9103	0.0000	20900	20000	4.5	35.0
o-Terphenyl	Ave	0.5460	0.5604	0.0000	20500	20000	2.6	35.0

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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30013.D
Lab Smp Id: ICV-1558374
Inj Date : 30-MAY-2013 16:53
Operator : TP Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m
Meth Date : 03-Jun-2013 10:33 cantins Quant Type: ISTD
Cal Date : 30-MAY-2013 16:38 Cal File: 1AE30012.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/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.494	2.493	(1.000)	682213	40.0000	
*	7 Acenaphthene-d10	164	3.520	3.524	(1.000)	336207	40.0000	
*	11 Phenanthrene-d10	188	4.460	4.465	(1.000)	558509	40.0000	
$	15 o-Terphenyl	230	4.754	4.758	(1.066)	156479	20.5264	20.5264
*	19 Chrysene-d12	240	6.469	6.473	(1.000)	482825	40.0000	
*	24 Perylene-d12	264	7.548	7.552	(1.000)	386611	40.0000	
	2 Naphthalene	128	2.505	2.504	(1.004)	326769	22.2374	22.2374
	3 2-Methylnaphthalene	141	2.911	2.915	(1.167)	158477	20.8113	20.8112
	4 1-Methylnaphthalene	142	2.965	2.969	(1.188)	215857	20.9941	20.9940(M)
	5 1,1'-Biphenyl	154	3.189	3.193	(1.278)	227924	19.3856	19.3855(M)
	6 Acenaphthylene	152	3.435	3.433	(0.976)	326271	20.7761	20.7761(M)
	8 Acenaphthene	154	3.541	3.540	(1.006)	171257	22.0856	22.0856
	9 Dibenzofuran	168	3.643	3.647	(1.035)	240362	20.2592	20.2591(M)
	10 Fluorene	166	3.851	3.850	(1.094)	188713	21.3146	21.3145
	12 Phenanthrene	178	4.476	4.481	(1.004)	265827	22.2081	22.2081
	13 Anthracene	178	4.508	4.513	(1.011)	278912	21.0860	21.0859
	16 Fluoranthene	202	5.336	5.341	(1.196)	310585	22.2564	22.2563(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Pyrene	202	5.502	5.501	(0.851)	304039	21.7986	21.7986
18 Benzo(a)anthracene	228	6.464	6.468	(0.999)	272318	20.9949	20.9948
20 Chrysene	228	6.485	6.489	(1.002)	293124	20.6458	20.6458(M)
21 Benzo(b)fluoranthene	252	7.276	7.280	(0.964)	214350	20.1807	20.1807
22 Benzo(k)fluoranthene	252	7.297	7.301	(0.967)	292387	21.1442	21.1442(M)
23 Benzo(a)pyrene	252	7.500	7.510	(0.994)	205562	21.8003	21.8003
25 Indeno(1,2,3-cd)pyrene	276	8.285	8.295	(1.098)	154210	20.4719	20.4719(M)
26 Dibenzo(a,h)anthracene	278	8.307	8.321	(1.100)	179733	19.9926	19.9925(M)
27 Benzo(g,h,i)perylene	276	8.488	8.503	(1.125)	175968	20.9011	20.9011(M)

QC Flag Legend

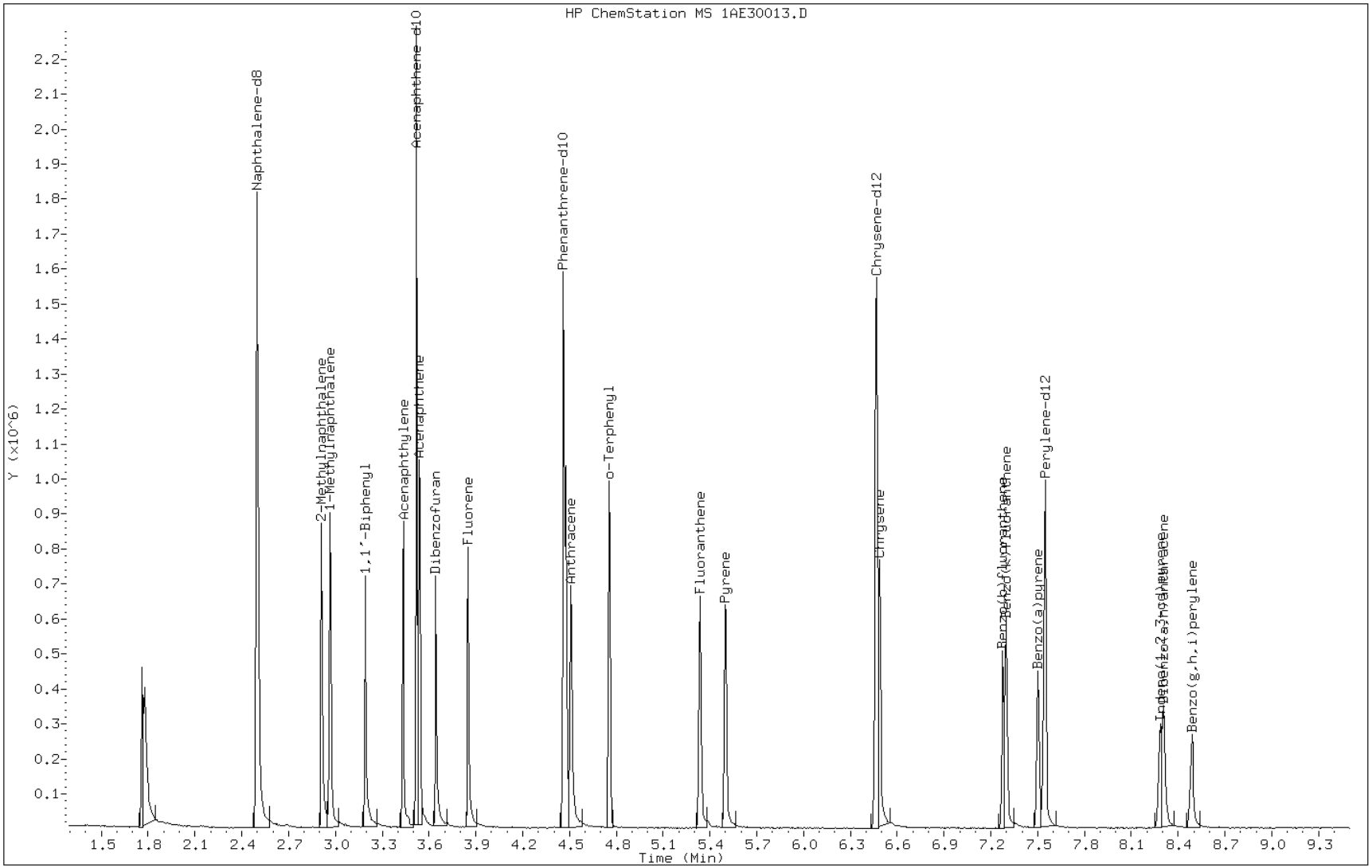
M - Compound response manually integrated.

Data File: 1AE30013.D

Date: 30-MAY-2013 16:53

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: TP



Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 06/03/2013

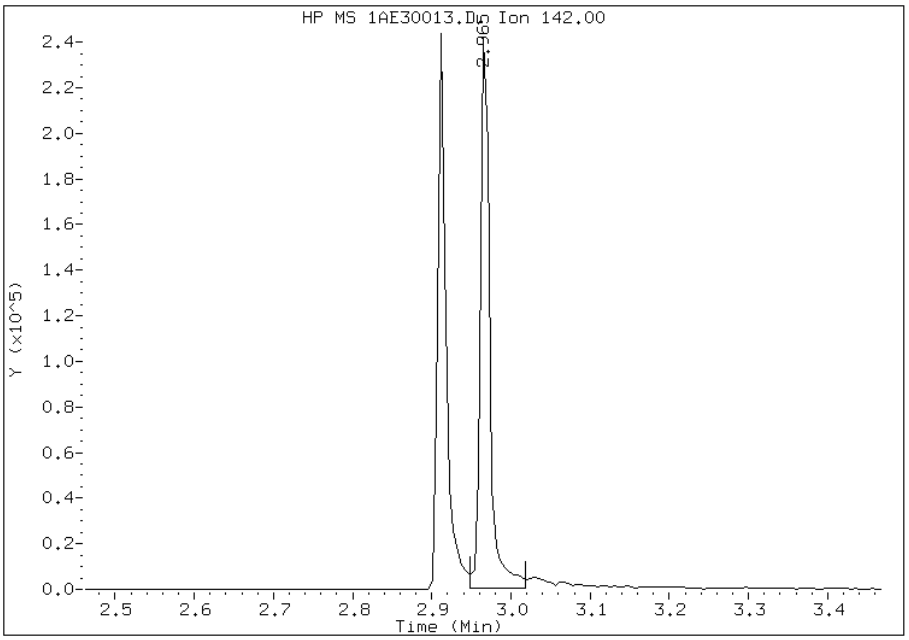
Processing Integration Results

RT: 2.97

Response: 195522

Amount: 20

Conc: 20



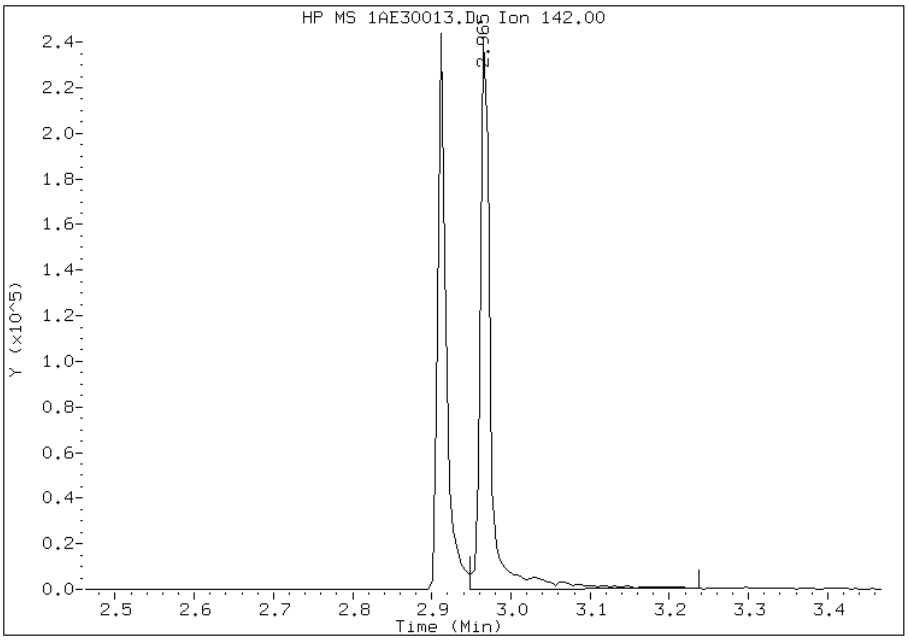
Manual Integration Results

RT: 2.97

Response: 215857

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 06/03/2013

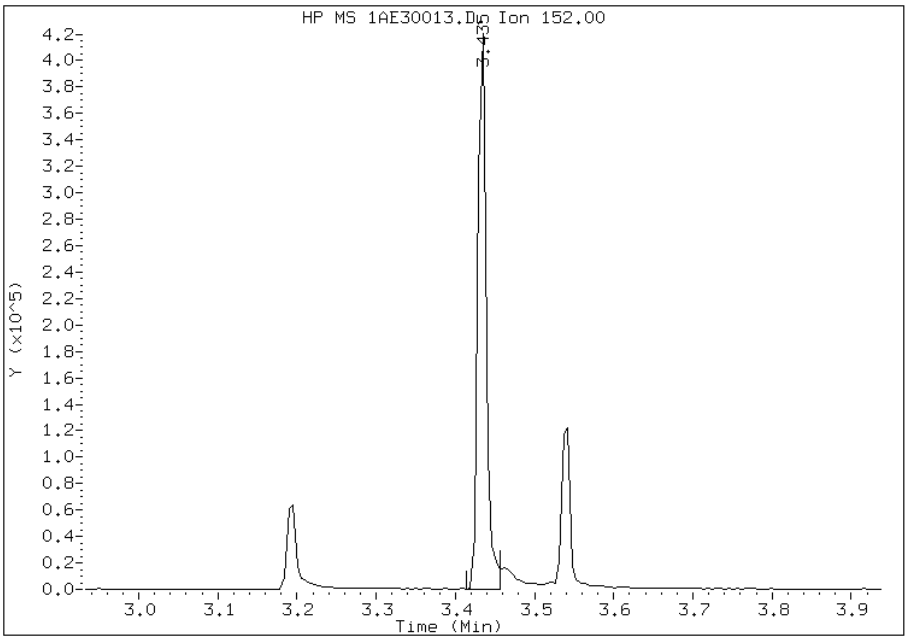
Processing Integration Results

RT: 3.44

Response: 303129

Amount: 19

Conc: 19



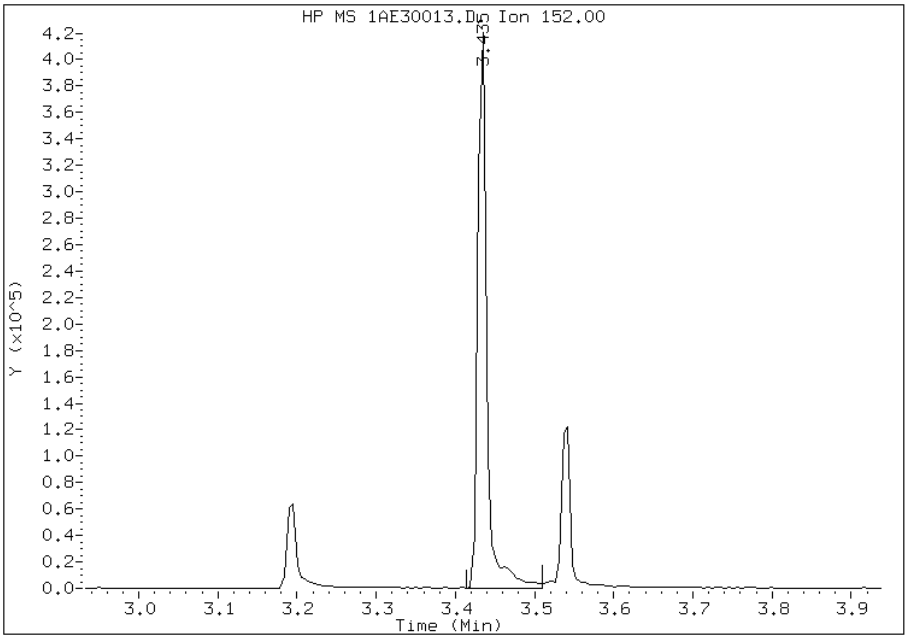
Manual Integration Results

RT: 3.44

Response: 326271

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 06/03/2013

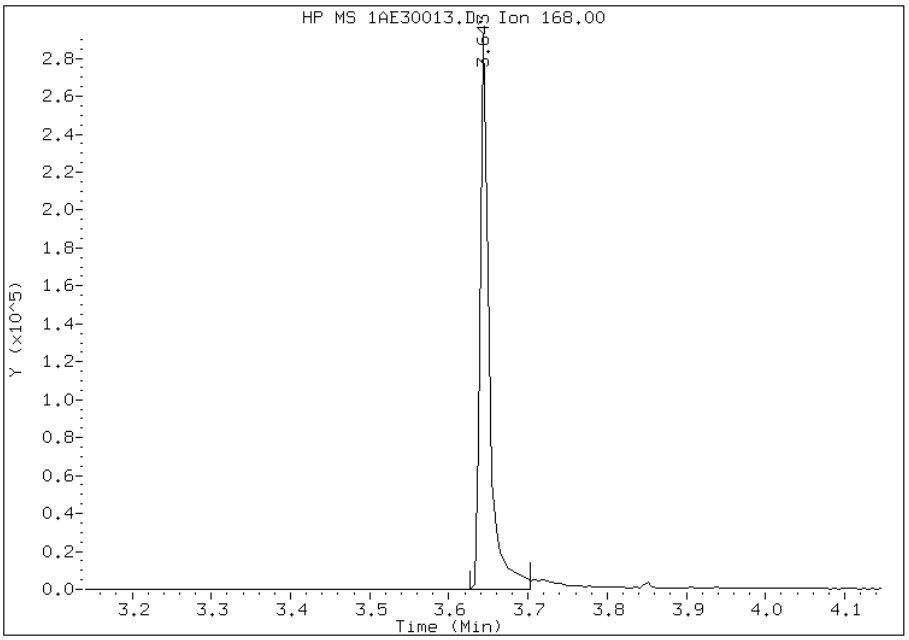
Processing Integration Results

RT: 3.64

Response: 227404

Amount: 18

Conc: 18



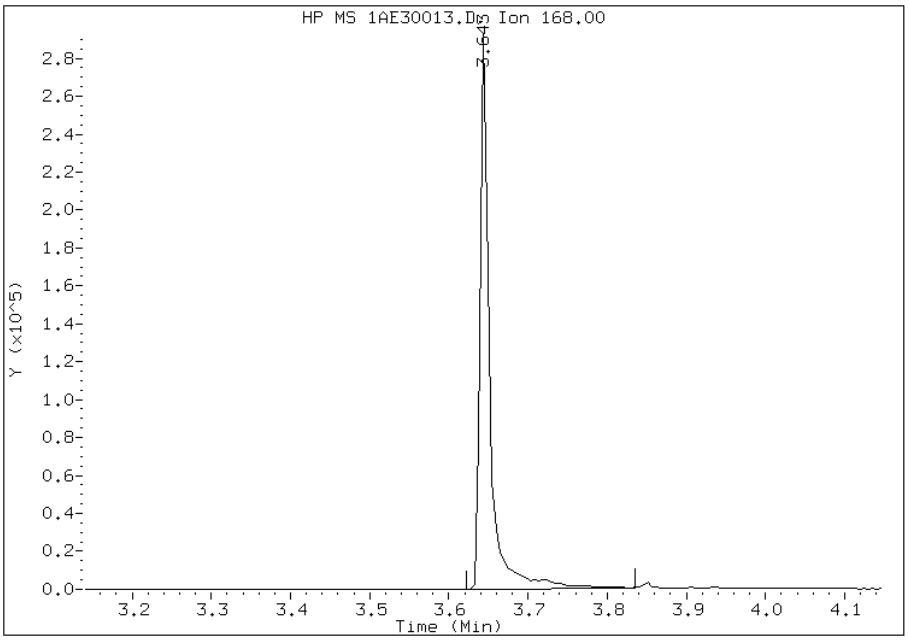
Manual Integration Results

RT: 3.64

Response: 240362

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 06/03/2013

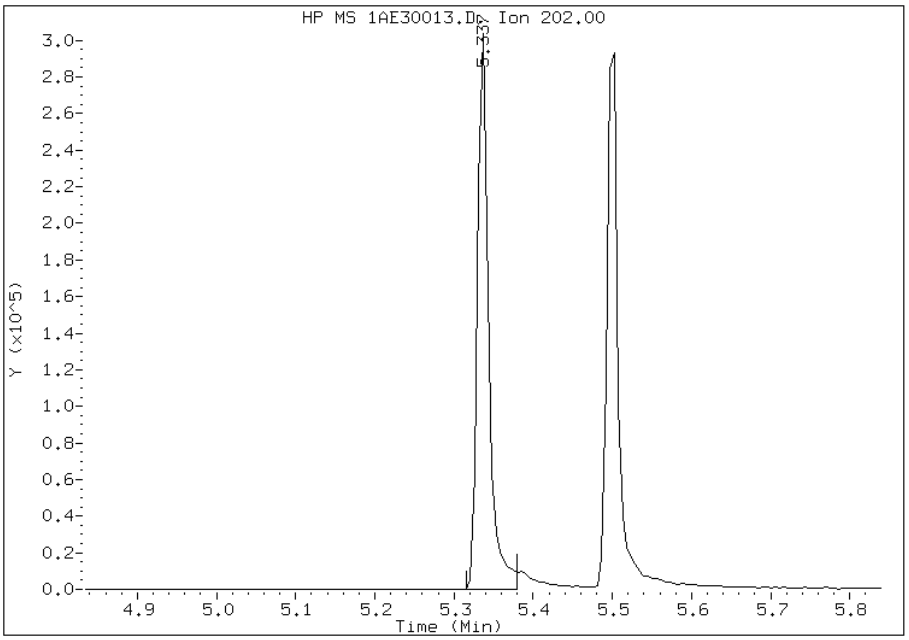
Processing Integration Results

RT: 5.34

Response: 293917

Amount: 21

Conc: 21



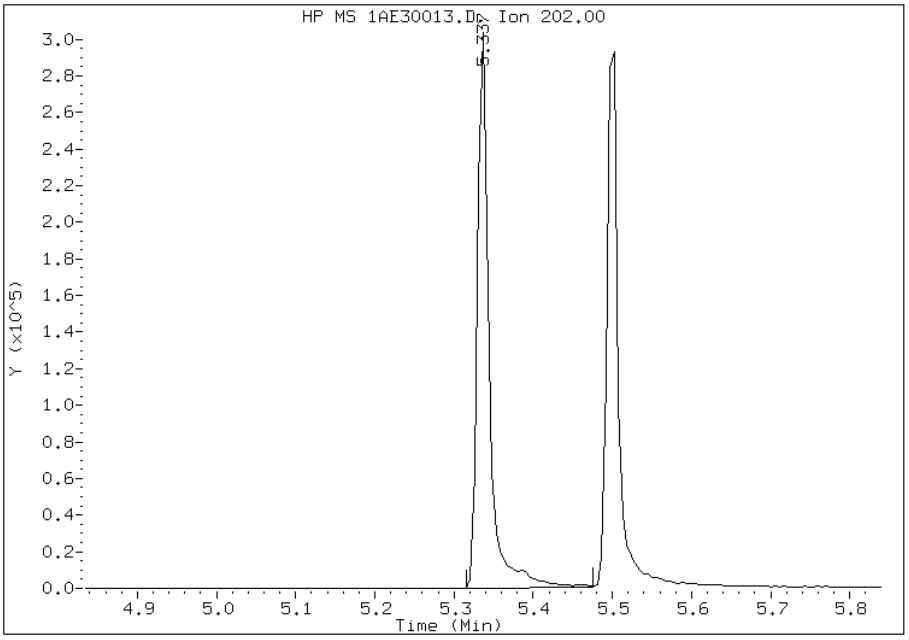
Manual Integration Results

RT: 5.34

Response: 310585

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/03/2013

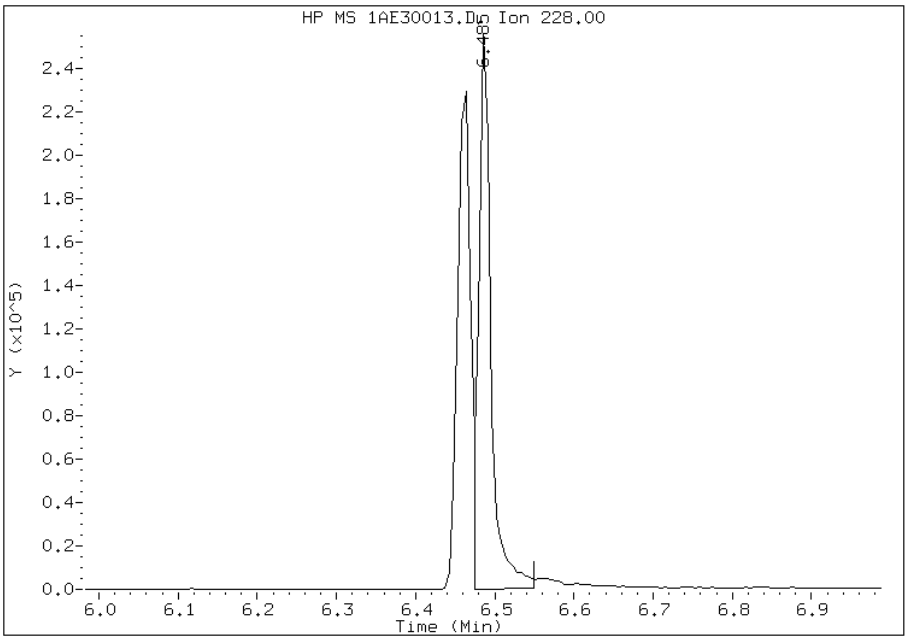
Processing Integration Results

RT: 6.49

Response: 278021

Amount: 20

Conc: 20



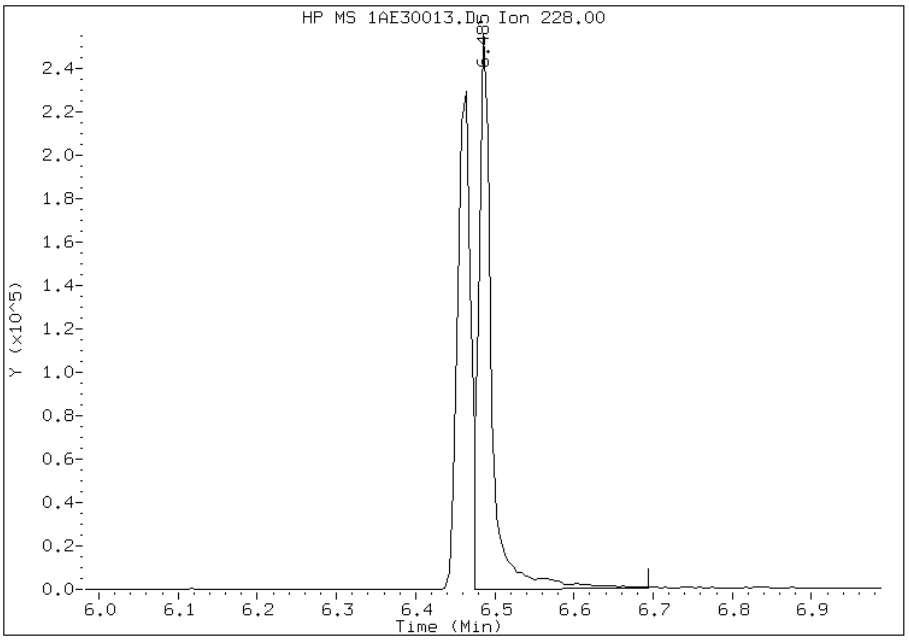
Manual Integration Results

RT: 6.49

Response: 293124

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/03/2013

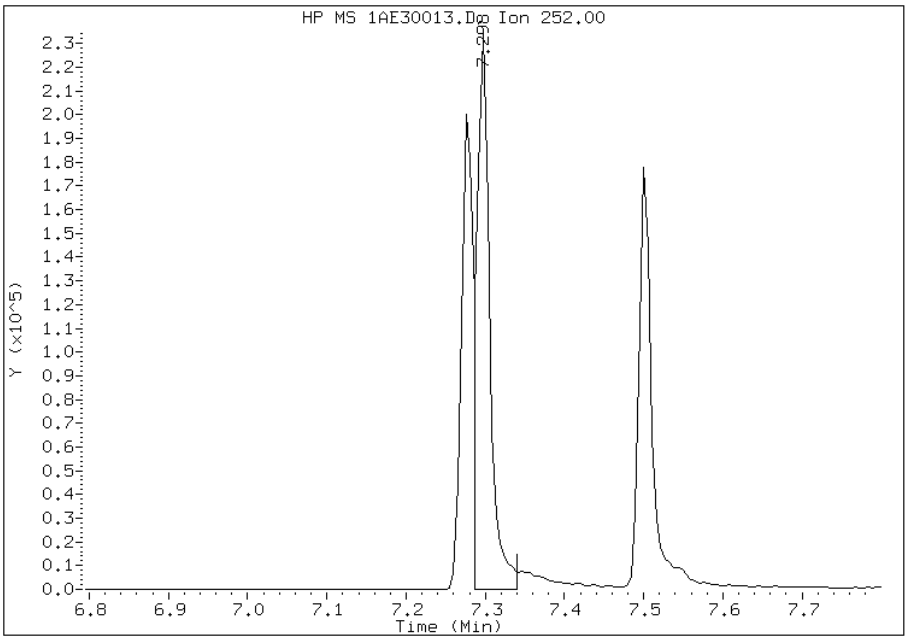
Processing Integration Results

RT: 7.30

Response: 273355

Amount: 20

Conc: 20



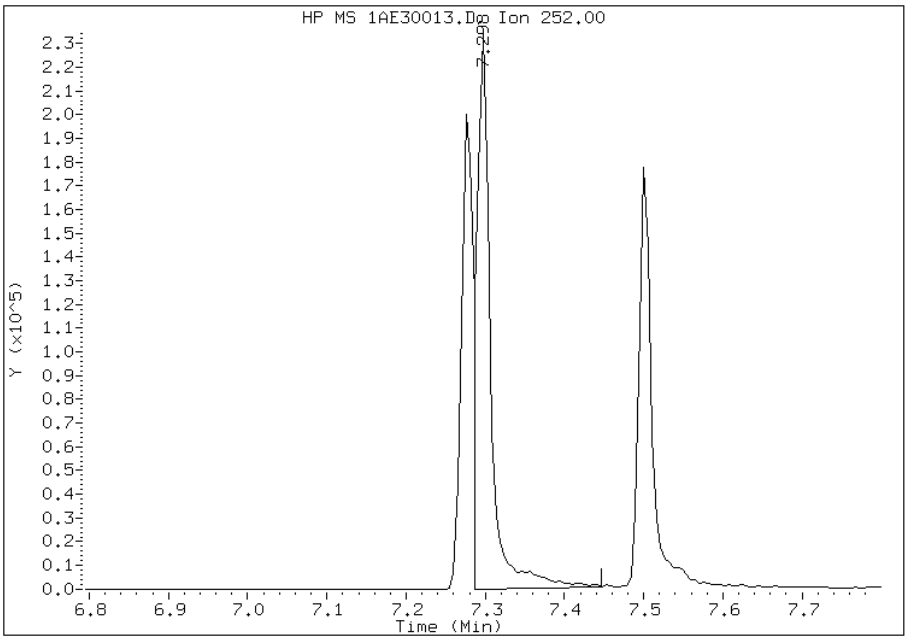
Manual Integration Results

RT: 7.30

Response: 292387

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/03/2013

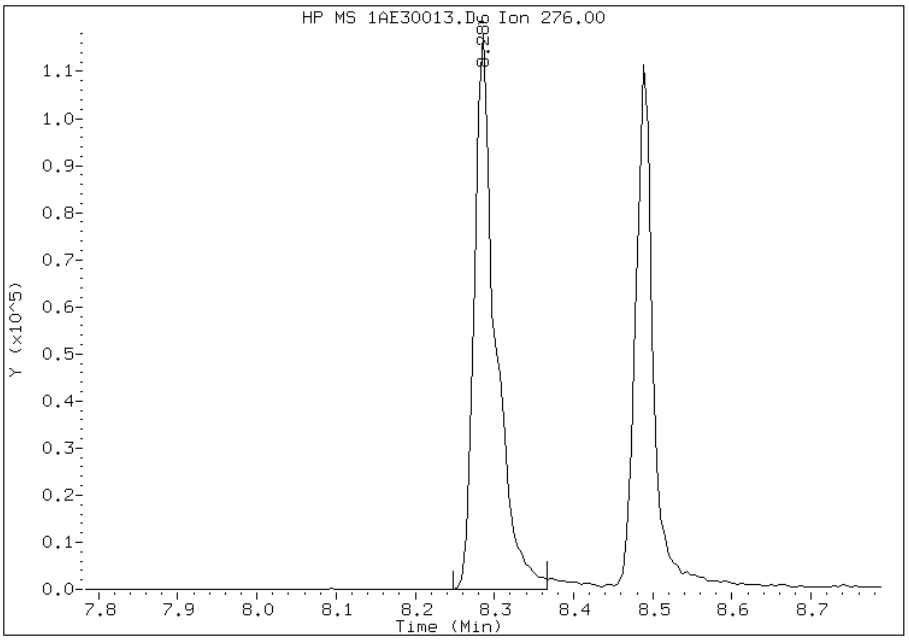
Processing Integration Results

RT: 8.29

Response: 218227

Amount: 32

Conc: 32



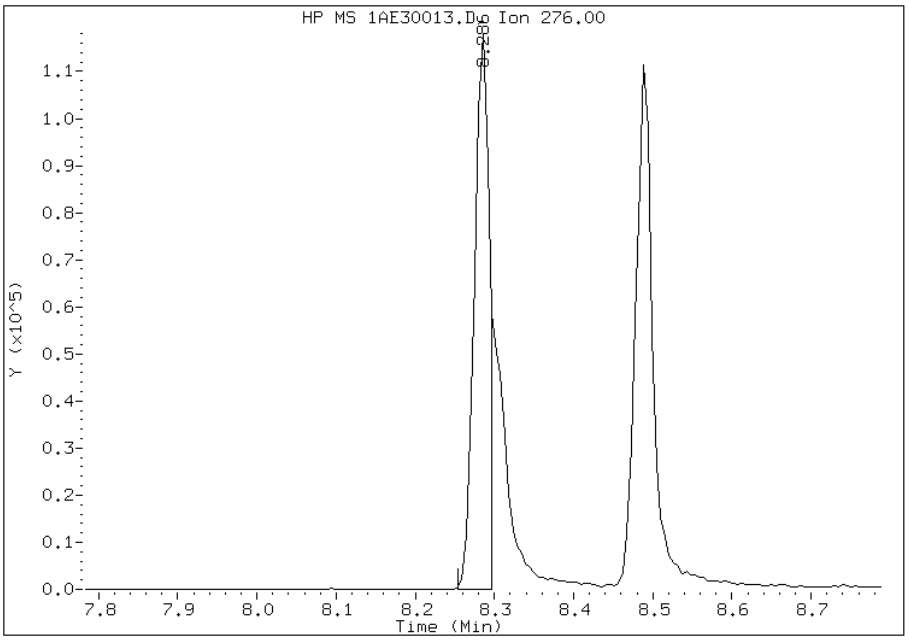
Manual Integration Results

RT: 8.29

Response: 154210

Amount: 20

Conc: 20



Manually Integrated By: perrint
Modification Date: 31-May-2013 13:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/03/2013

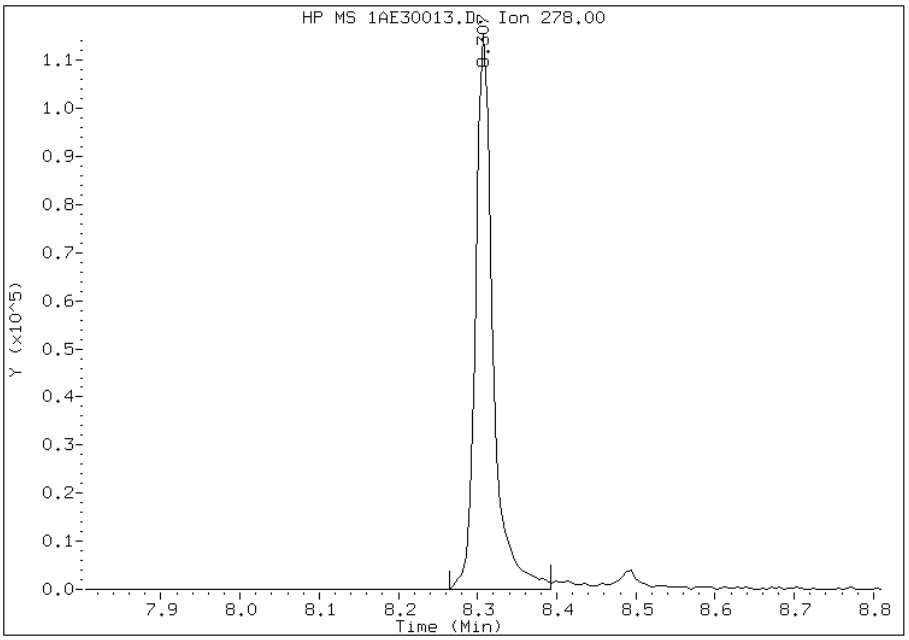
Processing Integration Results

RT: 8.31

Response: 174993

Amount: 19

Conc: 19



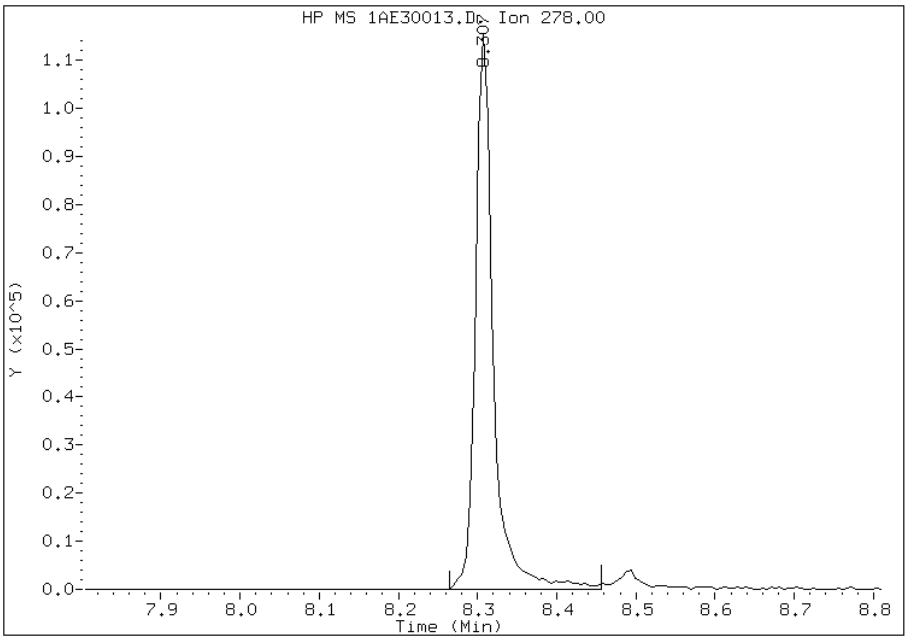
Manual Integration Results

RT: 8.31

Response: 179733

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D
Inj. Date and Time: 30-MAY-2013 16:53
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/03/2013

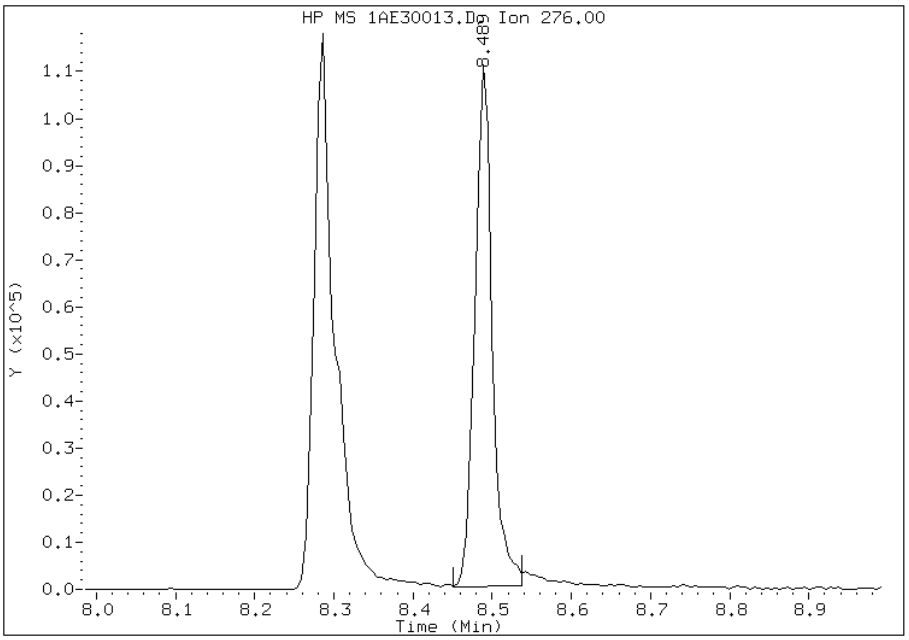
Processing Integration Results

RT: 8.49

Response: 166443

Amount: 19

Conc: 19



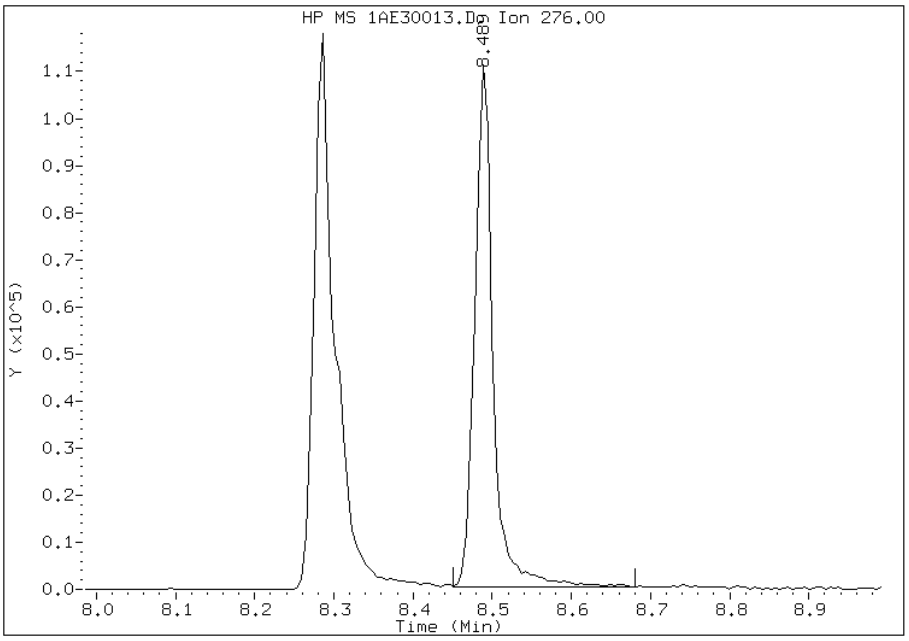
Manual Integration Results

RT: 8.49

Response: 175968

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-Jun-2013 10:19
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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

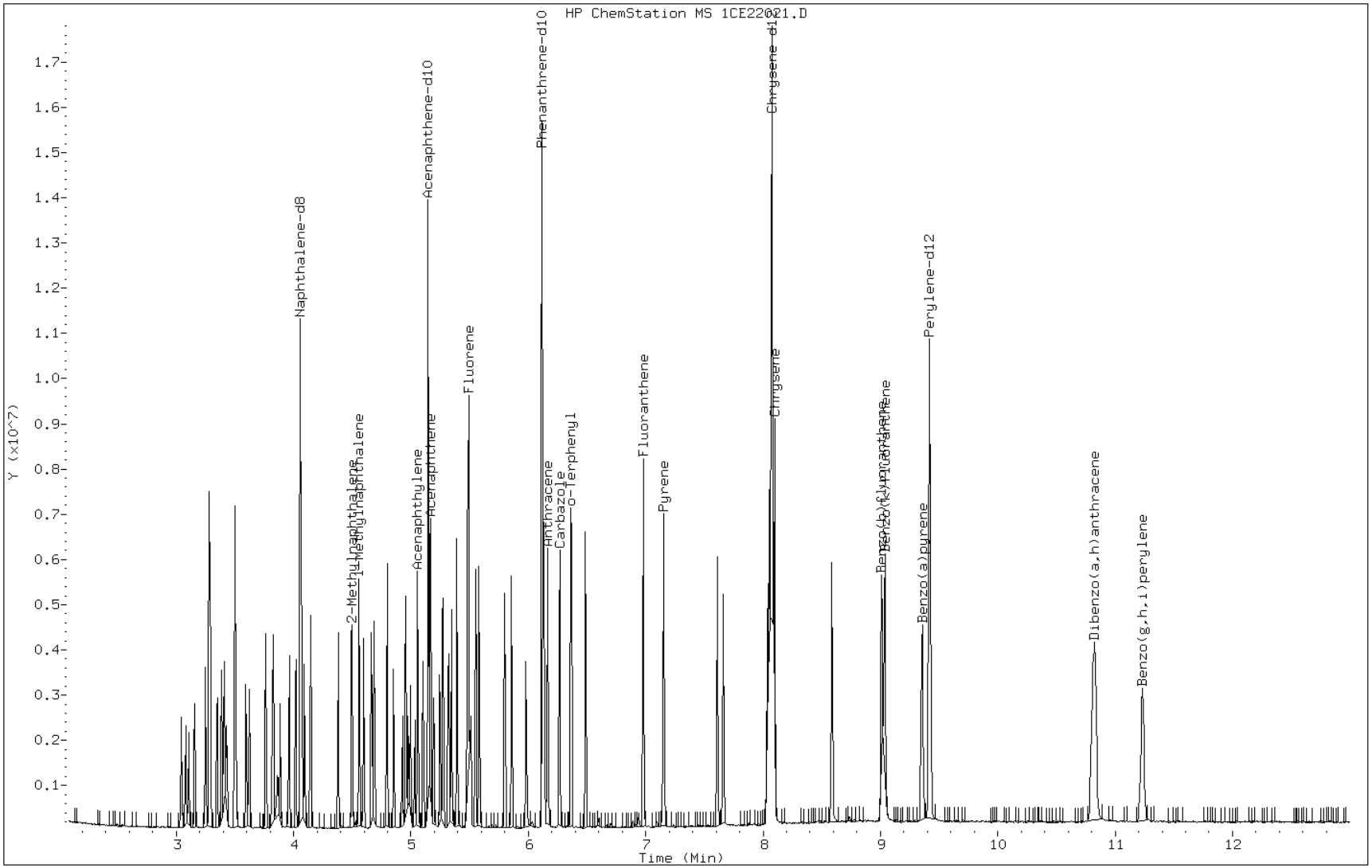
Date: 22-MAY-2013 18:24

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

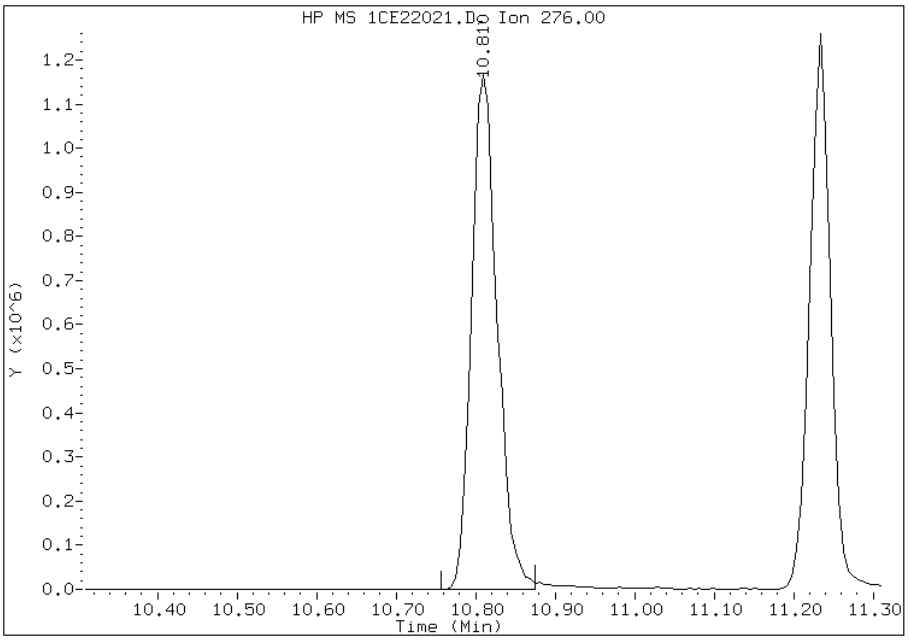
Processing Integration Results

RT: 10.81

Response: 2607256

Amount: 20

Conc: 20



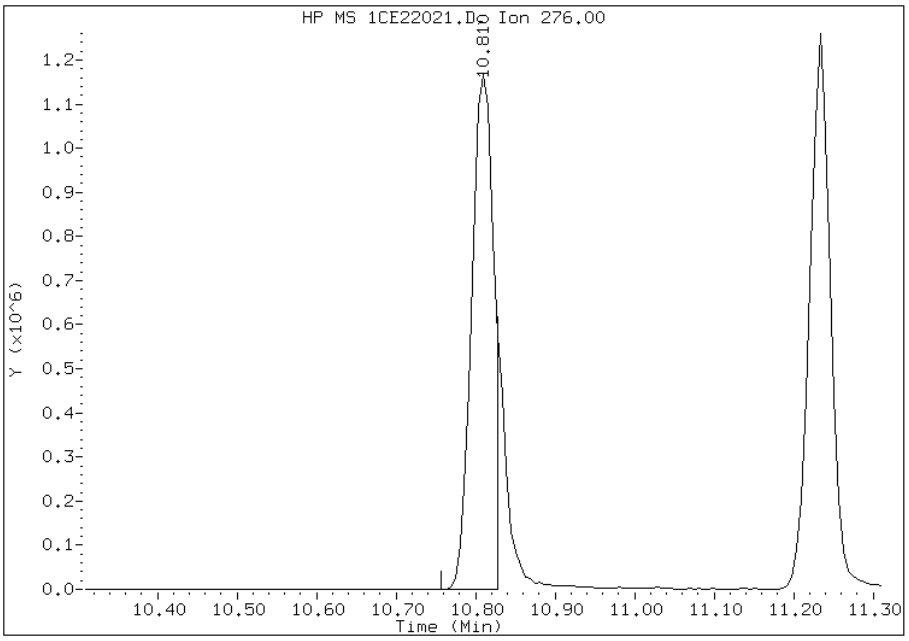
Manual Integration Results

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.: 680-90852-2

SDG No.: 68090852-2

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

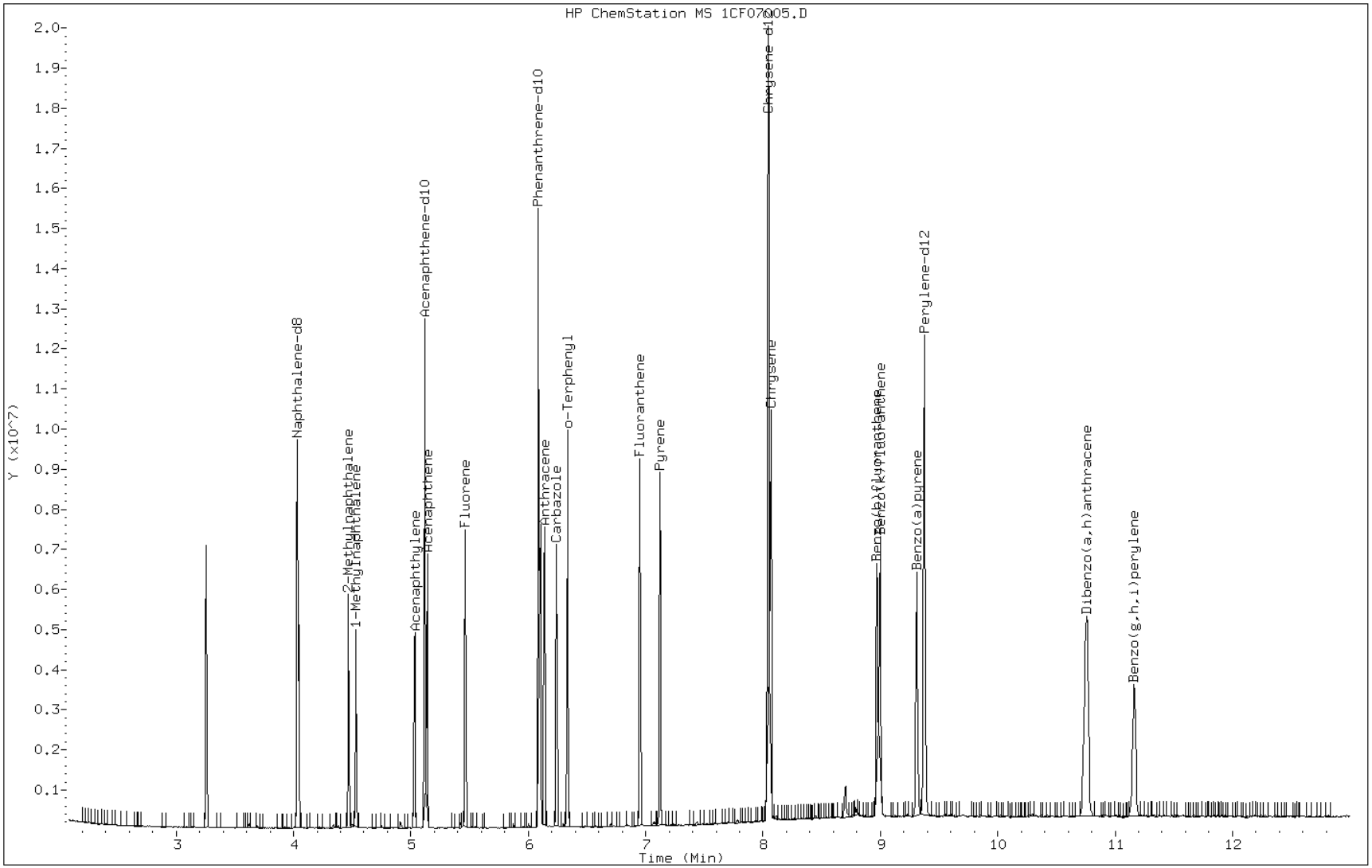
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

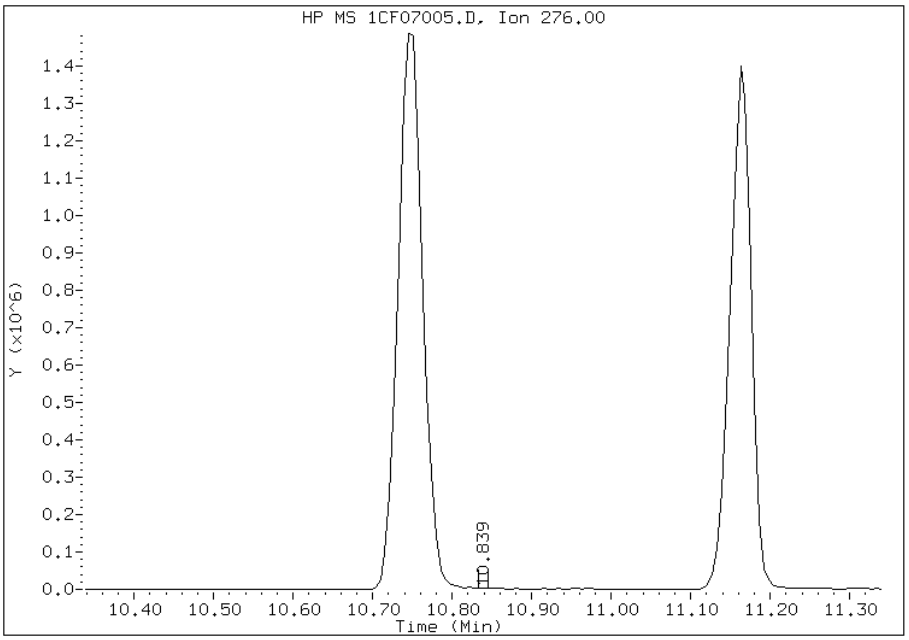
Processing Integration Results

RT: 10.84

Response: 1680

Amount: 0

Conc: 0



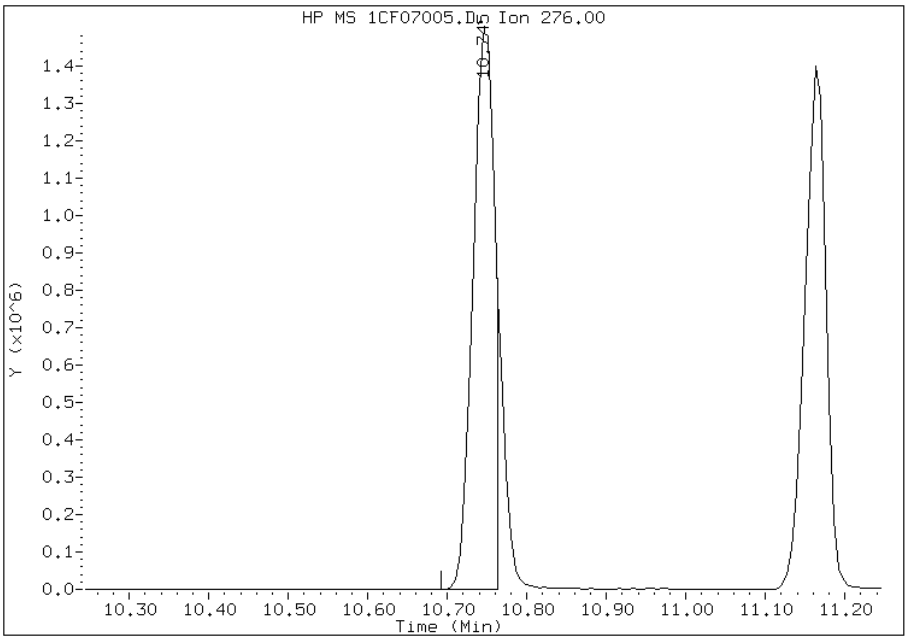
Manual Integration Results

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.: 680-90852-2

SDG No.: 68090852-2

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

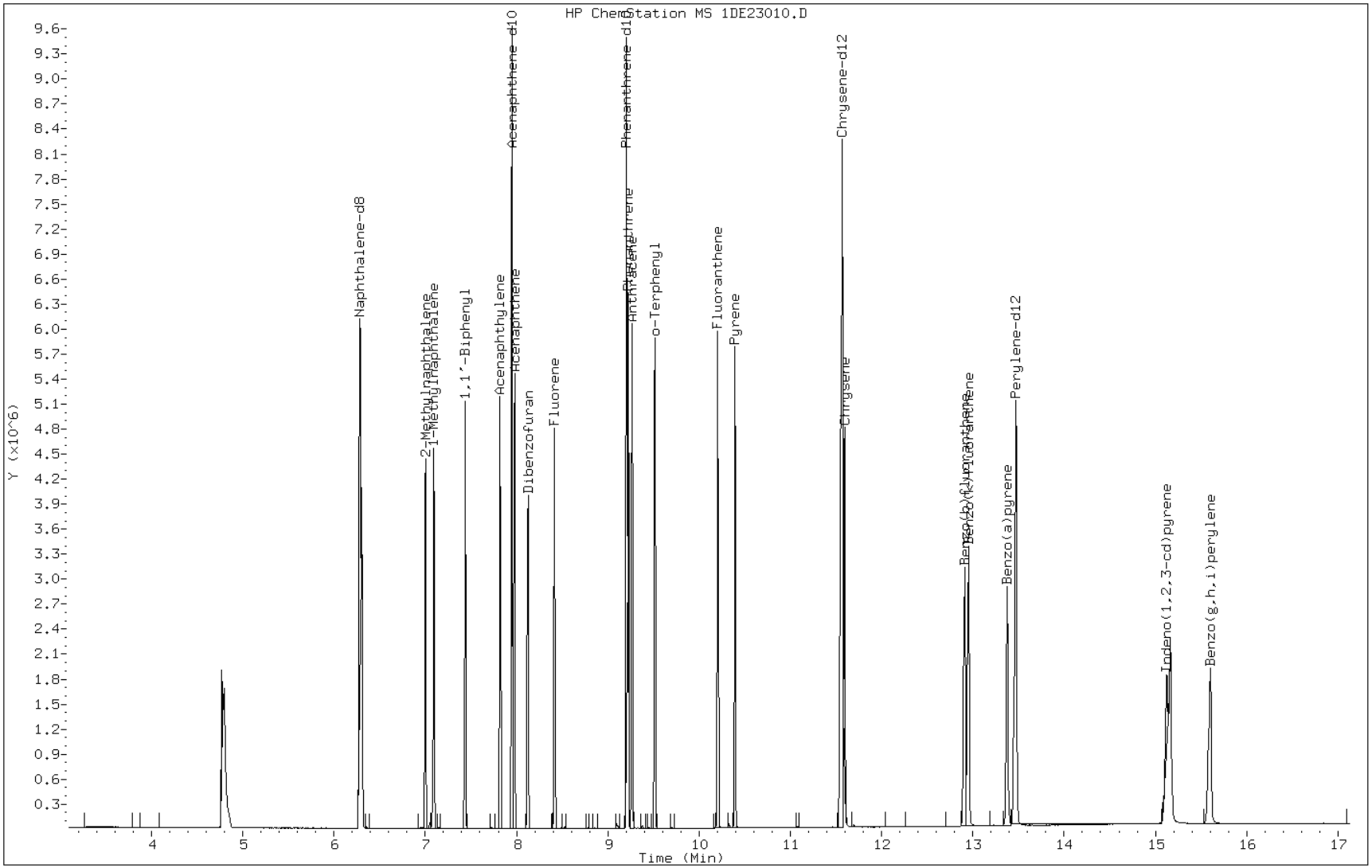
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	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.: 680-90852-2

SDG No.: 68090852-2

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

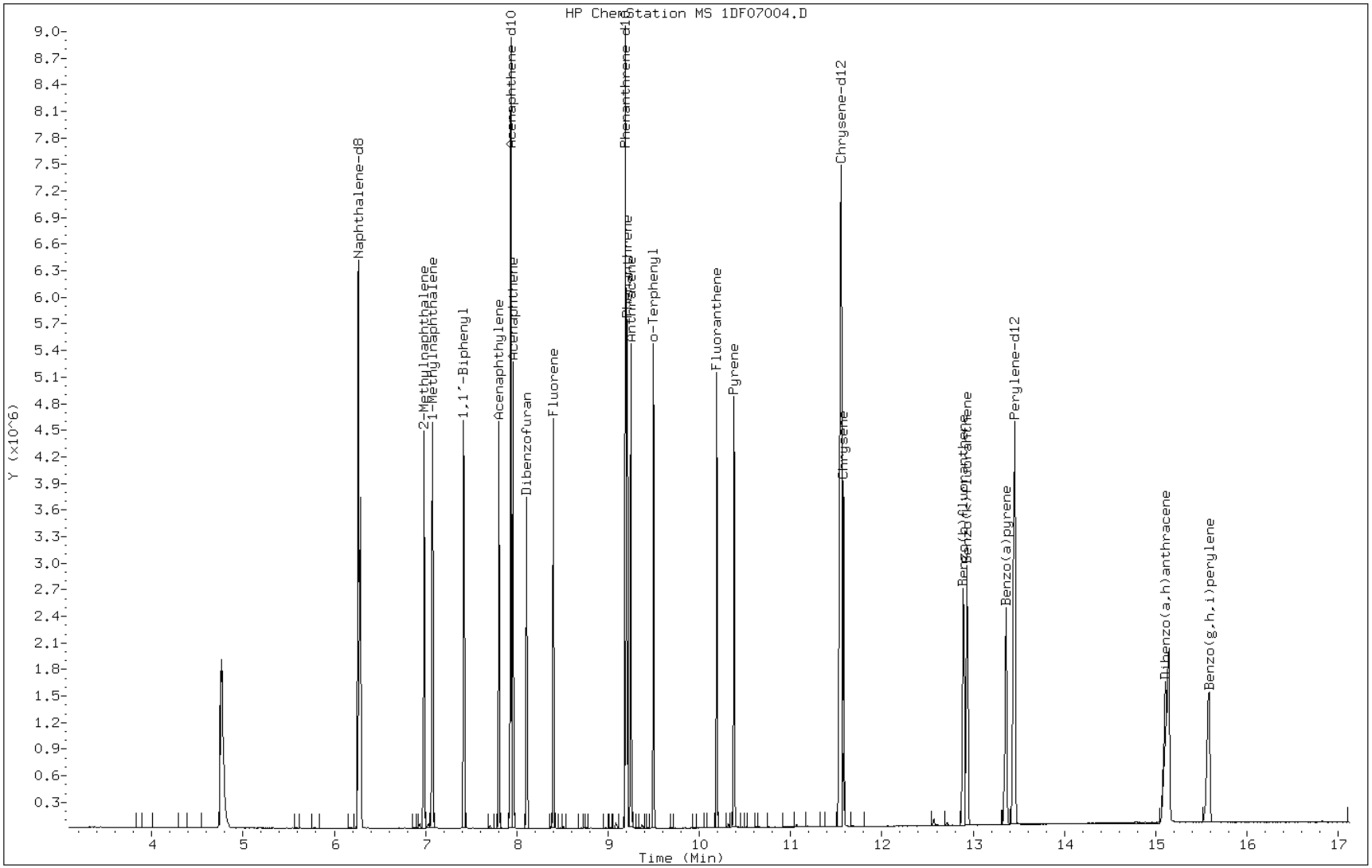
H - Operator selected an alternate compound hit.

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.: 680-90852-2

SDG No.: 68090852-2

Lab Sample ID: CCVIS 660-138216/3 Calibration Date: 06/09/2013 10:03

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: 1DF09003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9949	0.0000	20200	20000	0.9	20.0
2-Methylnaphthalene	Ave	0.6281	0.6459	0.0000	20600	20000	2.8	20.0
1-Methylnaphthalene	Ave	0.6466	0.6408	0.0000	19800	20000	-0.9	20.0
Acenaphthylene	Ave	1.658	1.836	0.0000	22100	20000	10.7	20.0
Acenaphthene	Ave	1.052	1.072	0.0000	20400	20000	1.9	20.0
Dibenzofuran	Ave	1.451	1.562		21500	20000	7.7	
Fluorene	Ave	1.190	1.278	0.0000	21500	20000	7.4	20.0
Phenanthrene	Ave	1.083	1.091	0.0000	20100	20000	0.7	20.0
Anthracene	Ave	1.051	1.112	0.0000	21200	20000	5.8	20.0
Fluoranthene	Ave	1.108	1.153	0.0000	20800	20000	4.0	20.0
Pyrene	Ave	1.171	1.220	0.0000	20800	20000	4.2	20.0
Benzo[a]anthracene	Ave	1.187	1.161	0.0000	19600	20000	-2.2	20.0
Chrysene	Ave	1.069	1.022	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.002	1.102	0.0000	22000	20000	10.0	20.0
Benzo[k]fluoranthene	Ave	1.049	1.109	0.0000	21100	20000	5.7	20.0
Benzo[a]pyrene	Lin2	0.8952	1.029	0.0000	20800	20000	4.2	20.0
Indeno[1,2,3-cd]pyrene	None		1.013	0.0000	19600	20000	-1.9	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9857	0.0000	20700	20000	3.5	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9616	0.0000	21200	20000	5.9	20.0
o-Terphenyl	Ave	0.5860	0.6149	0.0000	21000	20000	4.9	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 09-JUN-2013 10:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 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+2.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	6.263	6.263	(1.000)	3534561	40.0000	
*	7 Acenaphthene-d10	164	7.932	7.932	(1.000)	1941167	40.0000	
*	11 Phenanthrene-d10	188	9.189	9.189	(1.000)	3288683	40.0000	
$	15 o-Terphenyl	230	9.500	9.500	(1.034)	1011065	20.0000	21
*	19 Chrysene-d12	240	11.557	11.557	(1.000)	3128341	40.0000	
*	24 Perylene-d12	264	13.460	13.460	(1.000)	3075668	40.0000	
	2 Naphthalene	128	6.281	6.281	(1.003)	1758199	20.0000	20
	3 2-Methylnaphthalene	142	6.980	6.980	(1.114)	1141466	20.0000	20
	4 1-Methylnaphthalene	142	7.074	7.074	(1.129)	1132457	20.0000	20
	5 1,1'-Biphenyl	154	7.421	7.421	(0.936)	1407944	20.0000	21
	6 Acenaphthylene	152	7.802	7.802	(0.984)	1781994	20.0000	22
	8 Acenaphthene	154	7.961	7.961	(1.004)	1040265	20.0000	20
	9 Dibenzofuran	168	8.108	8.108	(1.022)	1515698	20.0000	22
	10 Fluorene	166	8.402	8.402	(1.059)	1240557	20.0000	21
	12 Phenanthrene	178	9.207	9.207	(1.002)	1794148	20.0000	20
	13 Anthracene	178	9.248	9.248	(1.006)	1829216	20.0000	21
	16 Fluoranthene	202	10.194	10.194	(1.109)	1895517	20.0000	21
	17 Pyrene	202	10.382	10.382	(0.898)	1907896	20.0000	21
	18 Benzo(a)anthracene	228	11.539	11.539	(0.998)	1815974	20.0000	20
	20 Chrysene	228	11.580	11.580	(1.002)	1598736	20.0000	19
	21 Benzo(b)fluoranthene	252	12.896	12.896	(0.958)	1695035	20.0000	22
	22 Benzo(k)fluoranthene	252	12.938	12.938	(0.961)	1705593	20.0000	21
	23 Benzo(a)pyrene	252	13.361	13.361	(0.993)	1582915	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.111	15.111	(1.123)	1557079	20.0000	20(H)
	26 Dibenzo(a,h)anthracene	278	15.147	15.147	(1.125)	1515851	20.0000	21
	27 Benzo(g,h,i)perylene	276	15.587	15.587	(1.158)	1478714	20.0000	21

QC Flag Legend

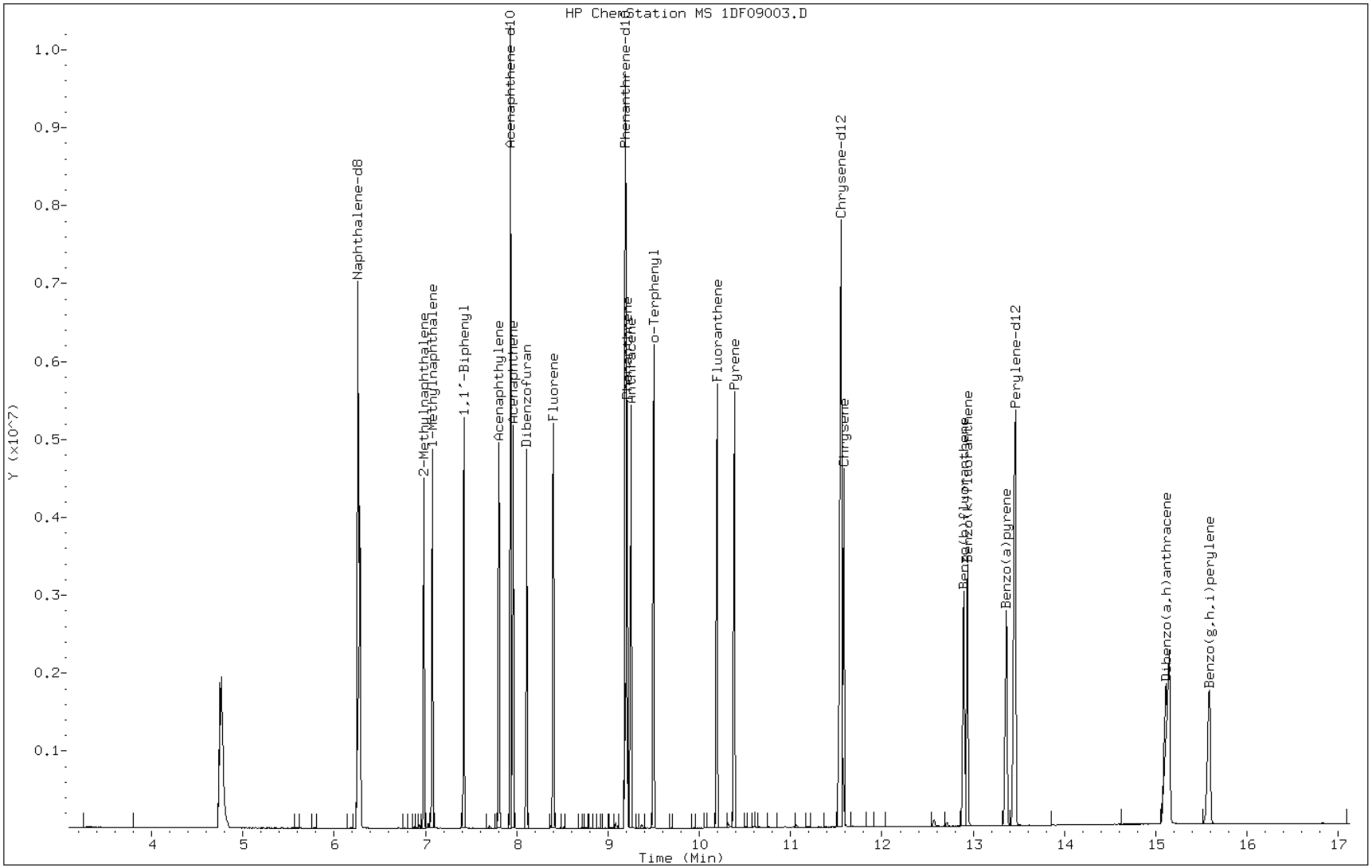
H - Operator selected an alternate compound hit.

Data File: 1DF09003.D

Date: 09-JUN-2013 10:03

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1559459 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-MAY-2013 14:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.833	4.963	-0.130	198	45600			50.00- 0.00	100.00
4.833	4.963	-0.130	51	23392			10.00- 80.00	51.30
4.833	4.963	-0.130	68	0	0.0	0.0	0.00- 2.00	0.00
4.833	4.963	-0.130	69	19736			0.00- 0.00	43.28
4.833	4.963	-0.130	70	0	0.0	0.0	0.00- 2.00	0.00
4.833	4.963	-0.130	127	22552			10.00- 80.00	49.46
4.833	4.963	-0.130	197	0	0.0	0.0	0.00- 2.00	0.00
4.833	4.963	-0.130	442	34984			50.00- 0.00	76.72
4.833	4.963	-0.130	199	3342			5.00- 9.00	7.33
4.833	4.963	-0.130	275	11324			10.00- 60.00	24.83
4.833	4.963	-0.130	365	1475			1.00- 0.00	3.23
4.833	4.963	-0.130	441	5222			0.01- 99.99	82.18
4.833	4.963	-0.130	443	6354			15.00- 24.00	18.16

Data File: 1AE30005.D

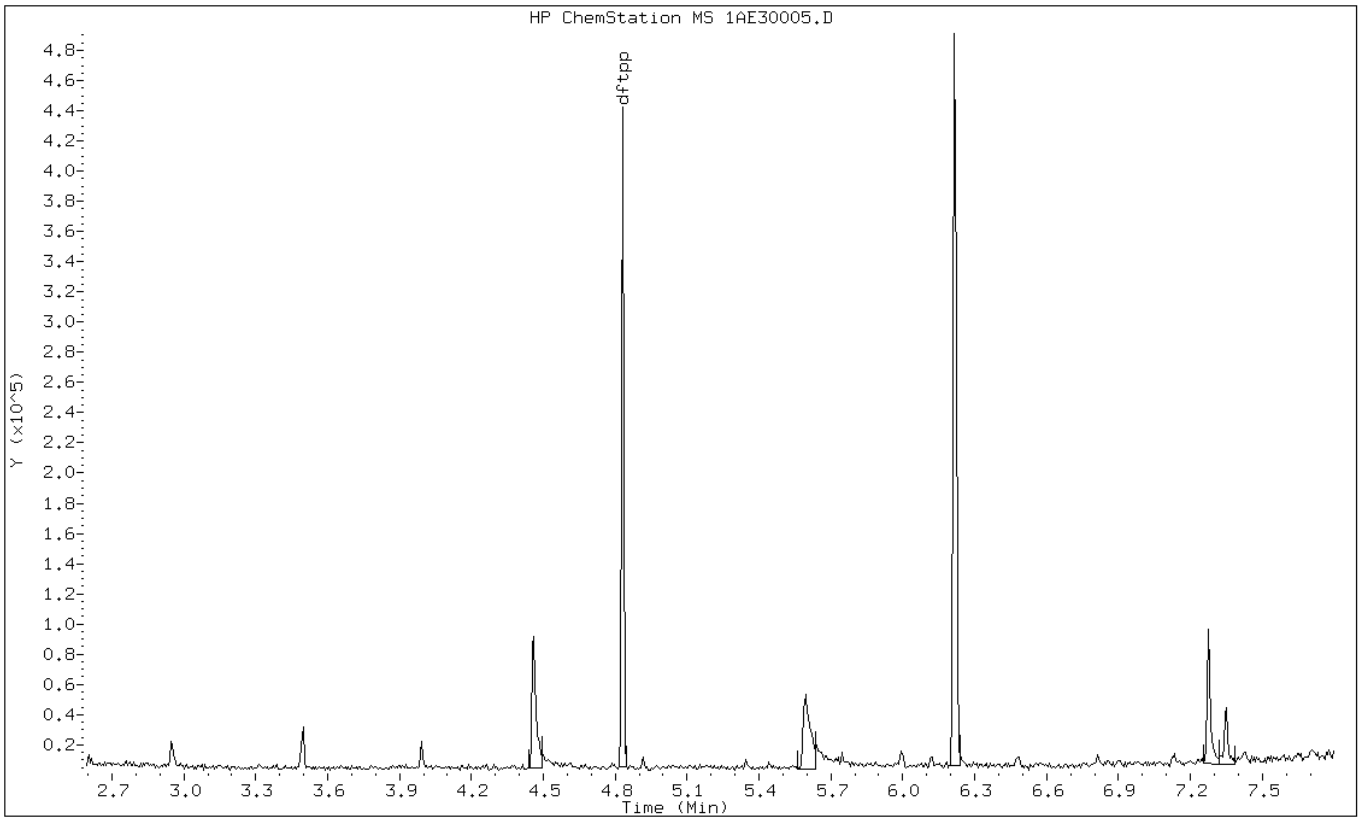
Date: 30-MAY-2013 14:51

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



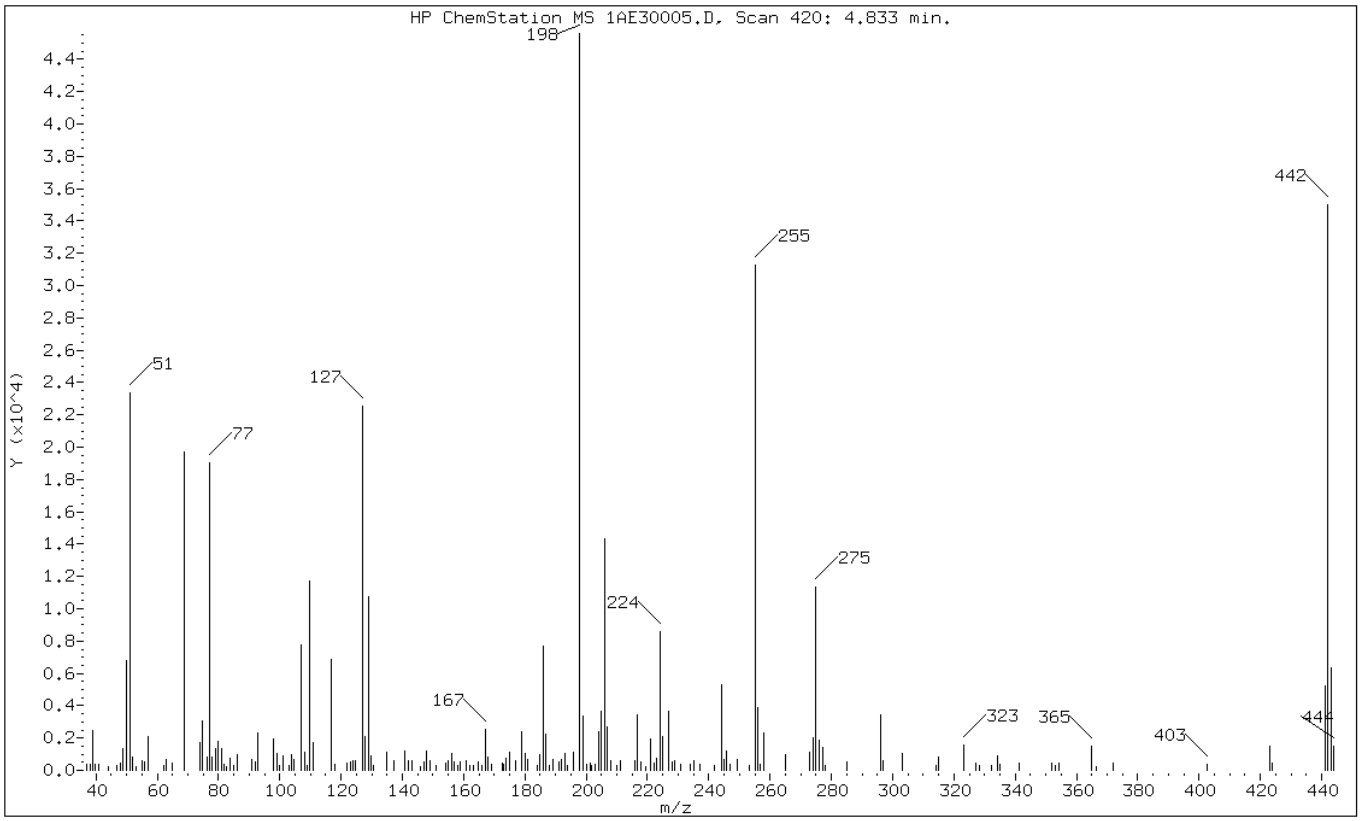
Data File: 1AE30005.D

Date: 30-MAY-2013 14:51

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 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	51.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.28
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.46
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	76.72
199	5.00 - 9.00% of mass 198	7.33
275	10.00 - 60.00% of mass 198	24.83
365	Greater than 1.00% of mass 198	3.23
441	Present, but less than mass 443	11.45
443	15.00 - 24.00% of mass 442	13.93 (18.16)

Data File: 1AE30005.D

Date: 30-MAY-2013 14:51

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30005.D
Spectrum: HP ChemStation MS 1AE30005.D, Scan 420: 4.833 min.
Location of Maximum: 197.90
Number of points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	354	108.10	1085	179.00	2418	244.00	5300
38.00	409	108.90	322	180.00	1010	245.00	667
39.10	2458	109.90	11680	181.00	653	245.80	1204
39.90	337	111.00	1740	183.90	303	246.80	339
41.00	401	116.90	6899	185.00	991	249.10	664
44.00	250	117.90	356	186.00	7679	253.20	292
47.00	335	122.00	433	186.90	2220	255.00	31288
48.00	441	123.10	522	187.80	294	256.00	3872
48.90	1316	124.00	596	189.10	695	256.90	345
50.00	6813	124.70	629	191.10	526	258.00	2279
51.00	23392	127.00	22552	192.00	664	265.00	987
51.90	810	128.00	2059	193.10	1017	273.00	1144
53.10	257	128.90	10737	193.80	285	274.00	2006
55.00	574	129.90	872	196.00	1147	275.00	11324
56.00	549	130.70	289	197.90	45600	276.10	1902
57.00	2114	134.90	1094	198.90	3342	277.10	1418
62.00	267	137.20	599	200.00	378	278.00	281
62.90	642	140.90	1157	201.20	482	285.00	523
64.90	420	141.90	579	201.80	304	296.00	3408
68.90	19736	143.00	573	203.00	408	297.00	630
74.00	1686	146.00	253	204.00	2377	303.10	1075
74.90	3086	146.90	520	205.00	3654	314.00	280
76.20	849	148.00	1171	206.00	14334	315.10	831
77.00	19008	149.00	611	206.90	2702	323.10	1555
78.00	855	151.20	282	208.00	578	327.00	470
78.90	1317	154.10	423	209.80	289	328.20	267
80.00	1819	154.90	591	211.10	564	332.30	263
81.00	1378	156.00	1033	216.00	572	334.10	888
81.90	395	156.90	492	216.80	3443	334.90	359
82.80	255	157.90	279	218.00	554	341.20	455
83.80	760	158.90	494	219.60	258	352.10	451
85.00	306	160.80	594	221.10	1942	353.10	310
86.00	949	162.20	316	222.00	422	354.30	416
90.90	694	163.20	308	222.90	716	365.00	1475
91.90	490	164.90	523	224.00	8558	366.30	251
93.00	2289	165.80	307	225.10	2102	371.90	469
98.00	1948	167.00	2528	227.00	3647	402.70	393
99.00	1024	168.10	843	227.90	536	423.00	1490
99.80	276	169.10	351	229.00	570	424.00	474
101.00	877	172.80	462	230.90	399	441.00	5222

103.20	331	173.10	366	234.00	395	442.00	34984
104.00	983	173.90	712	235.00	563	443.00	6354
104.80	648	175.00	1153	237.00	409	443.90	1468
107.00	7761	176.90	582	242.00	292		

TestAmerica Laboratories

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

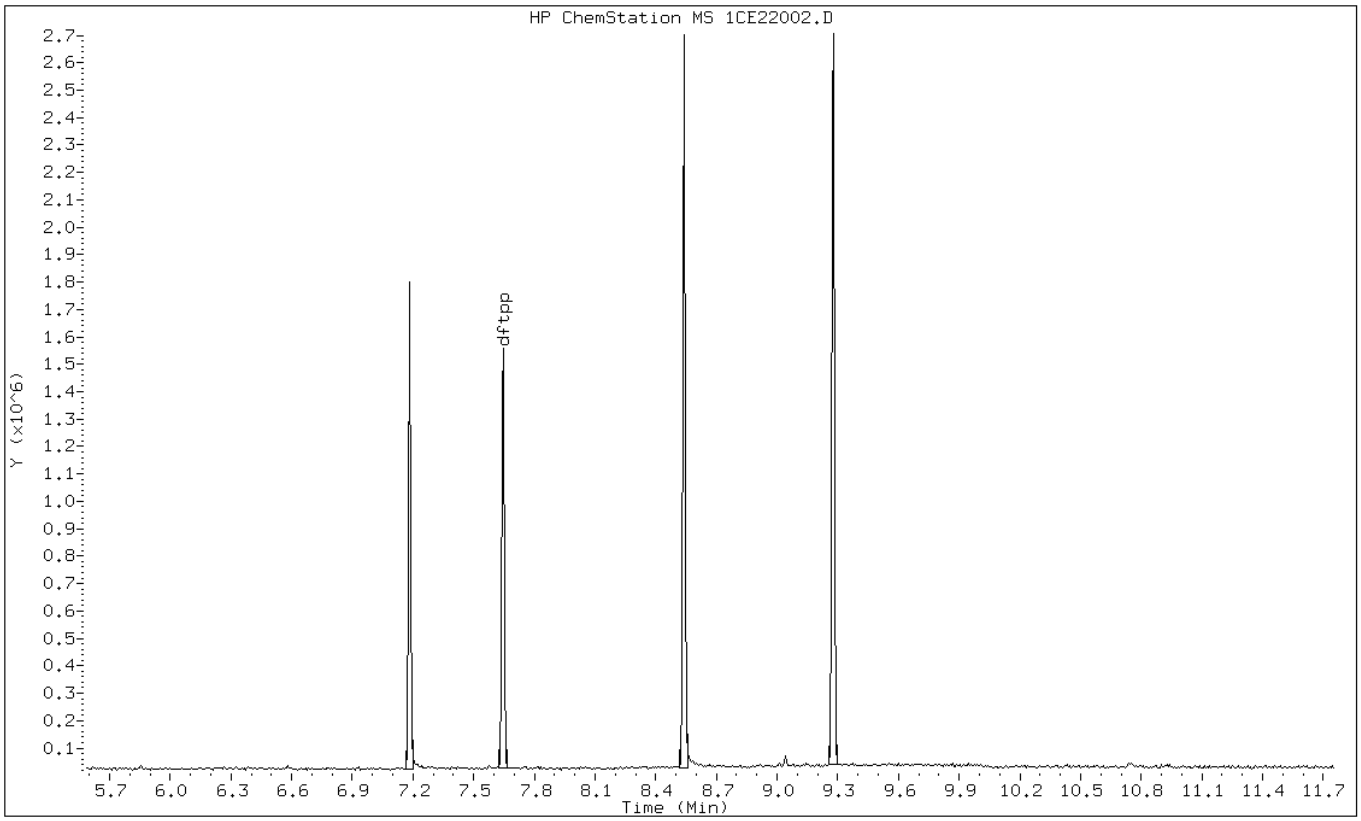
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.645	7.669	-0.024	198	167424			50.00- 0.00	100.00
7.645	7.669	-0.024	51	44984			10.00- 80.00	26.87
7.645	7.669	-0.024	68	1129			0.00- 2.00	1.61
7.645	7.669	-0.024	69	70064			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



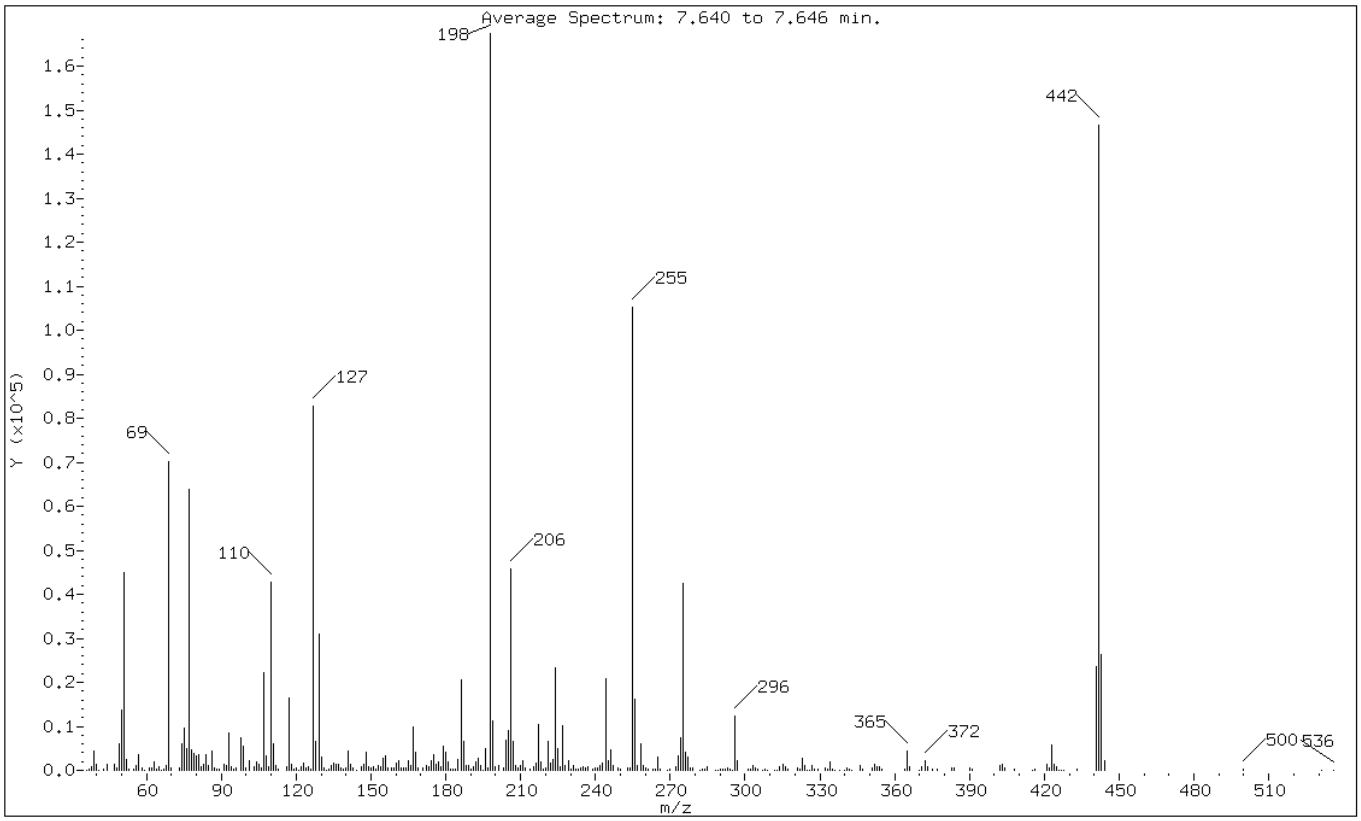
Data File: 1CE22002.D

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

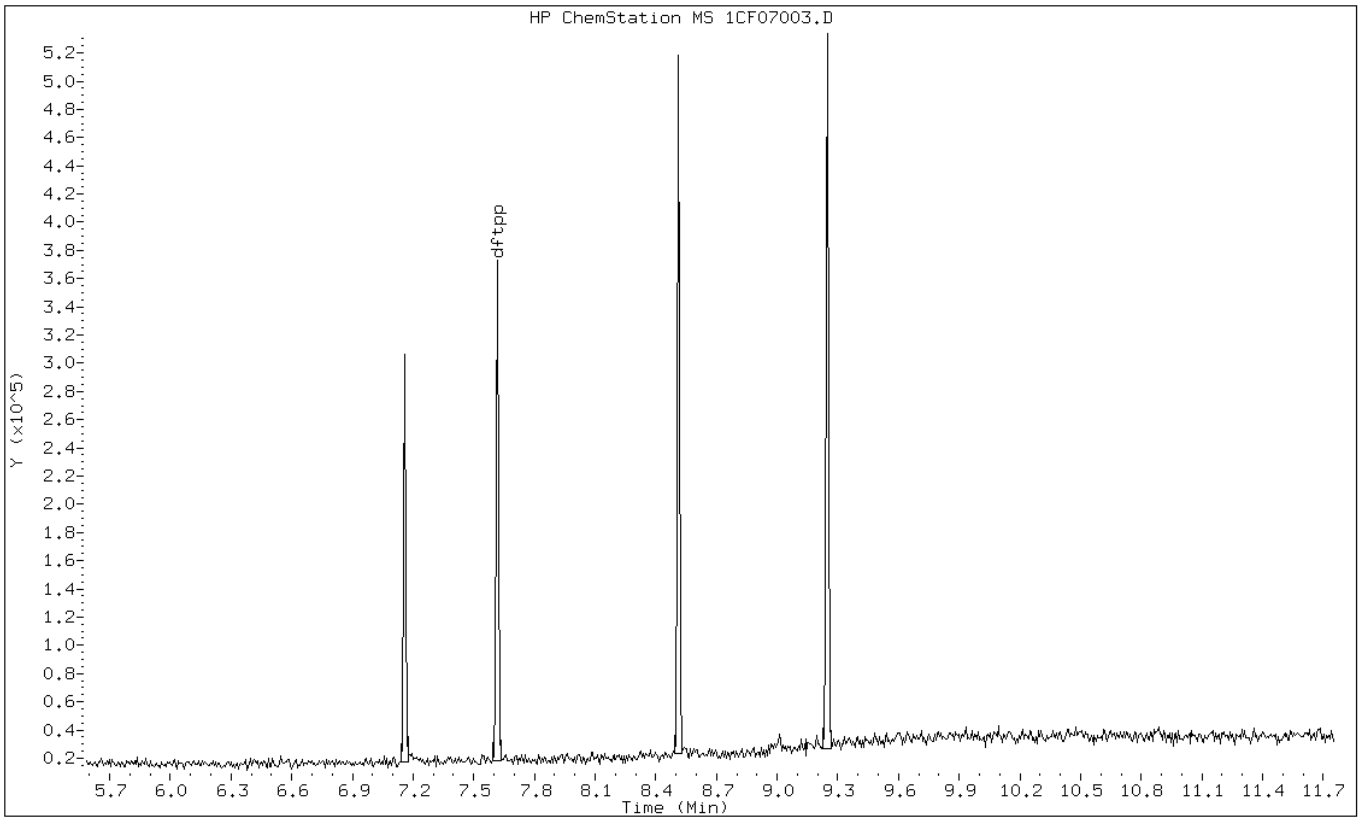
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.615	7.669	-0.054	198	22984			50.00- 0.00	100.00
7.615	7.669	-0.054	51	10838			10.00- 80.00	47.15
7.615	7.669	-0.054	68	0	0.0	0.0	0.00- 2.00	0.00
7.615	7.669	-0.054	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



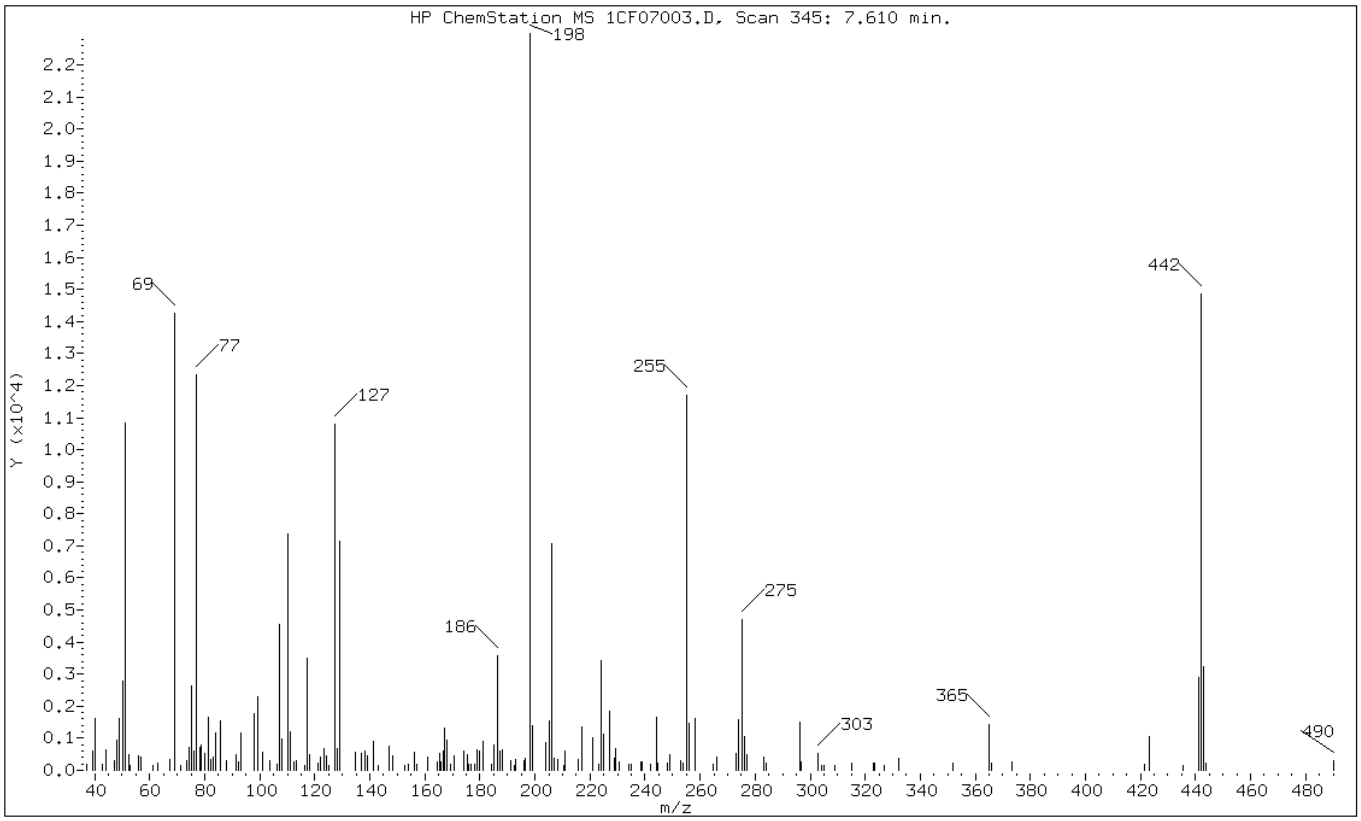
Data File: 1CF07003.D

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

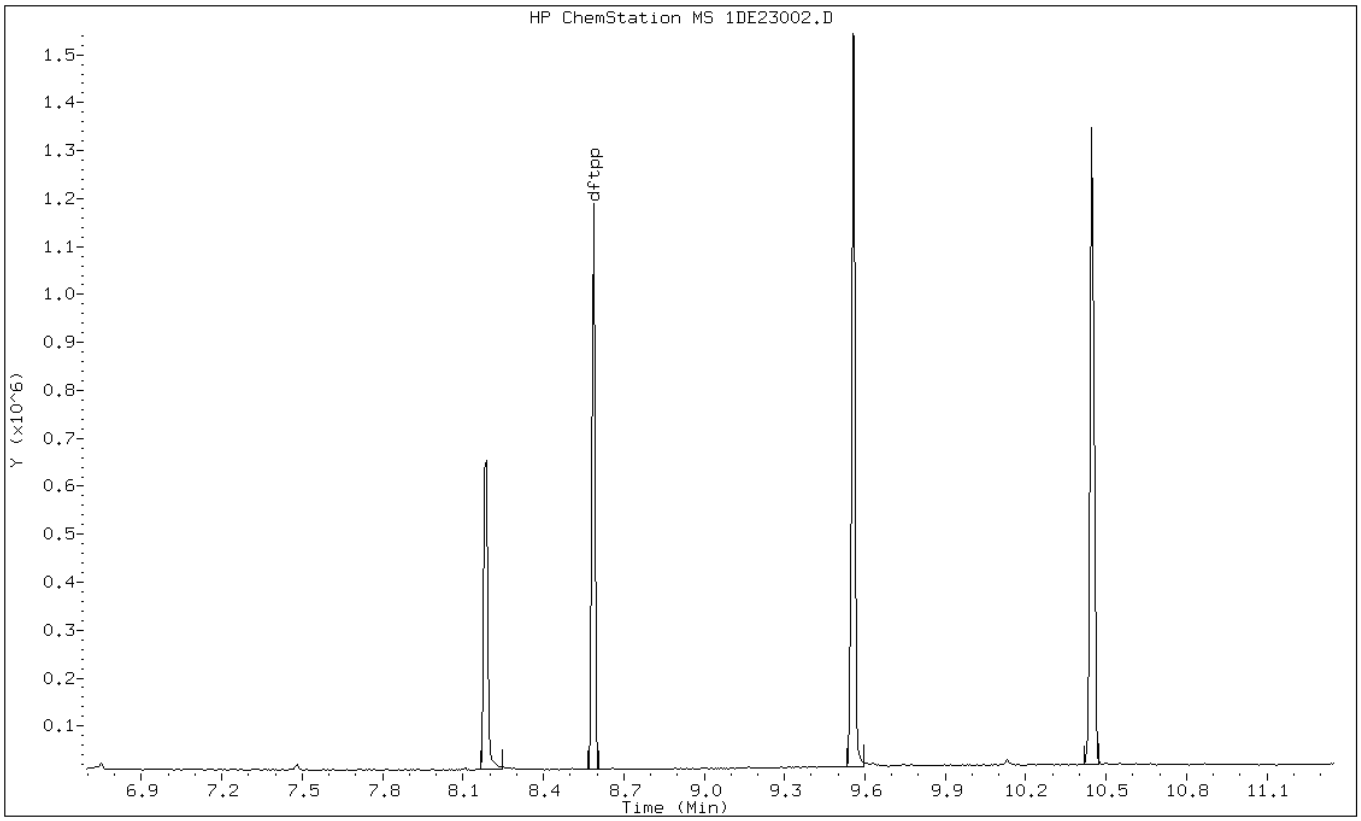
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.587	8.532	0.055	198	121784			50.00- 0.00	100.00
8.587	8.532	0.055	51	67440			10.00- 80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	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



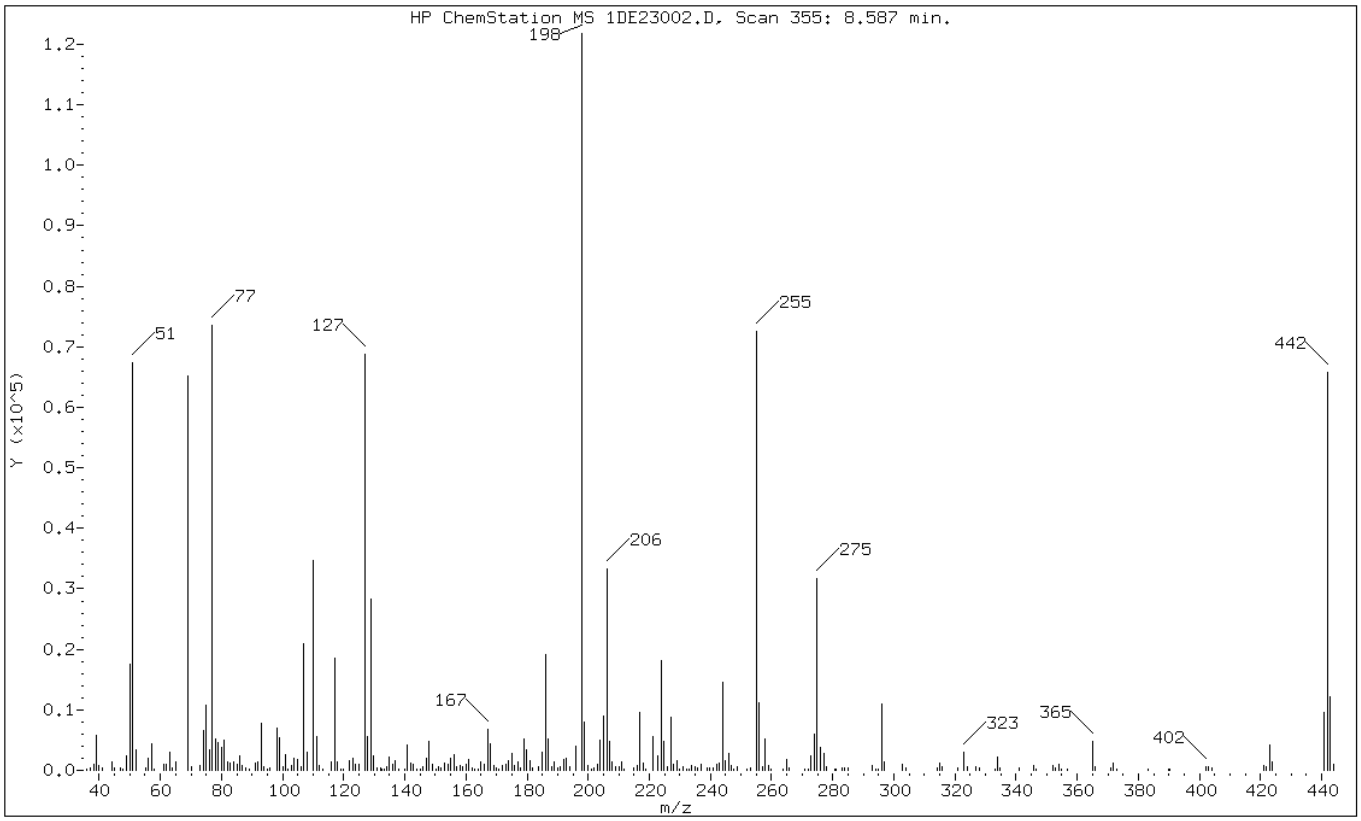
Data File: 1DE23002.D

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

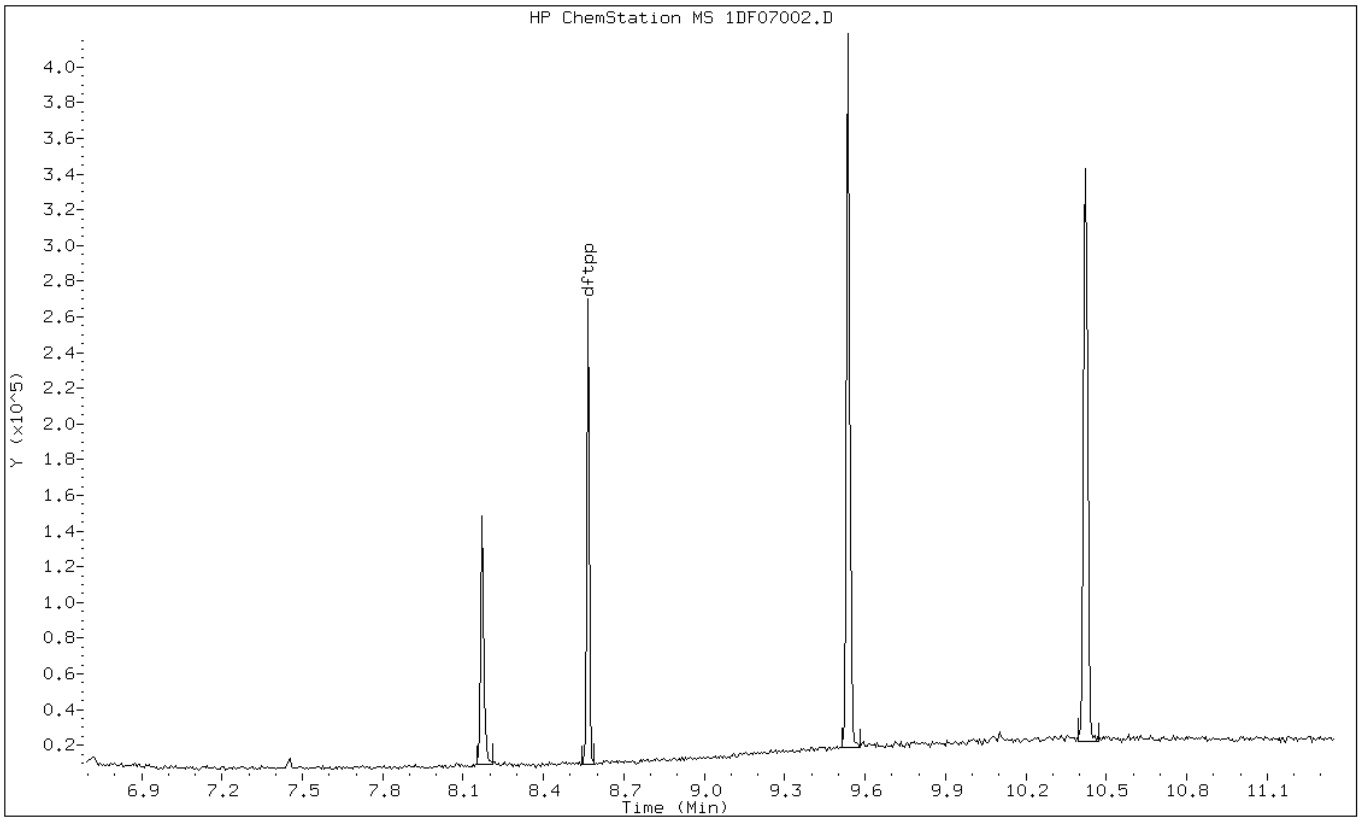
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.564	8.532	0.032	198	20616			50.00- 0.00	100.00
8.564	8.532	0.032	51	6933			10.00- 80.00	33.63
8.564	8.532	0.032	68	0	0.0	0.0	0.00- 2.00	0.00
8.564	8.532	0.032	69	6589			0.00- 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



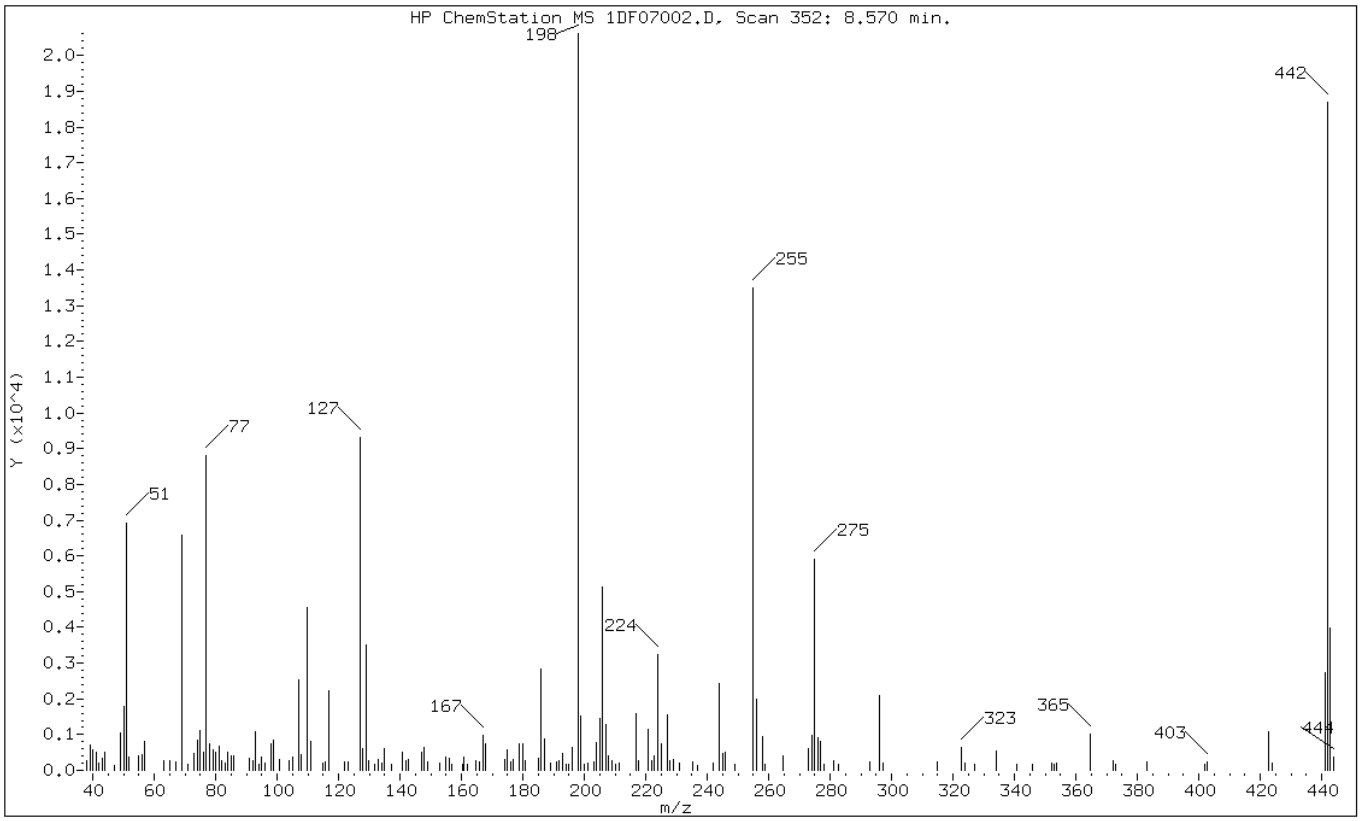
Data File: 1DF07002.D

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\1D060913.b\1DF09002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 09-JUN-2013 09:45
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.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

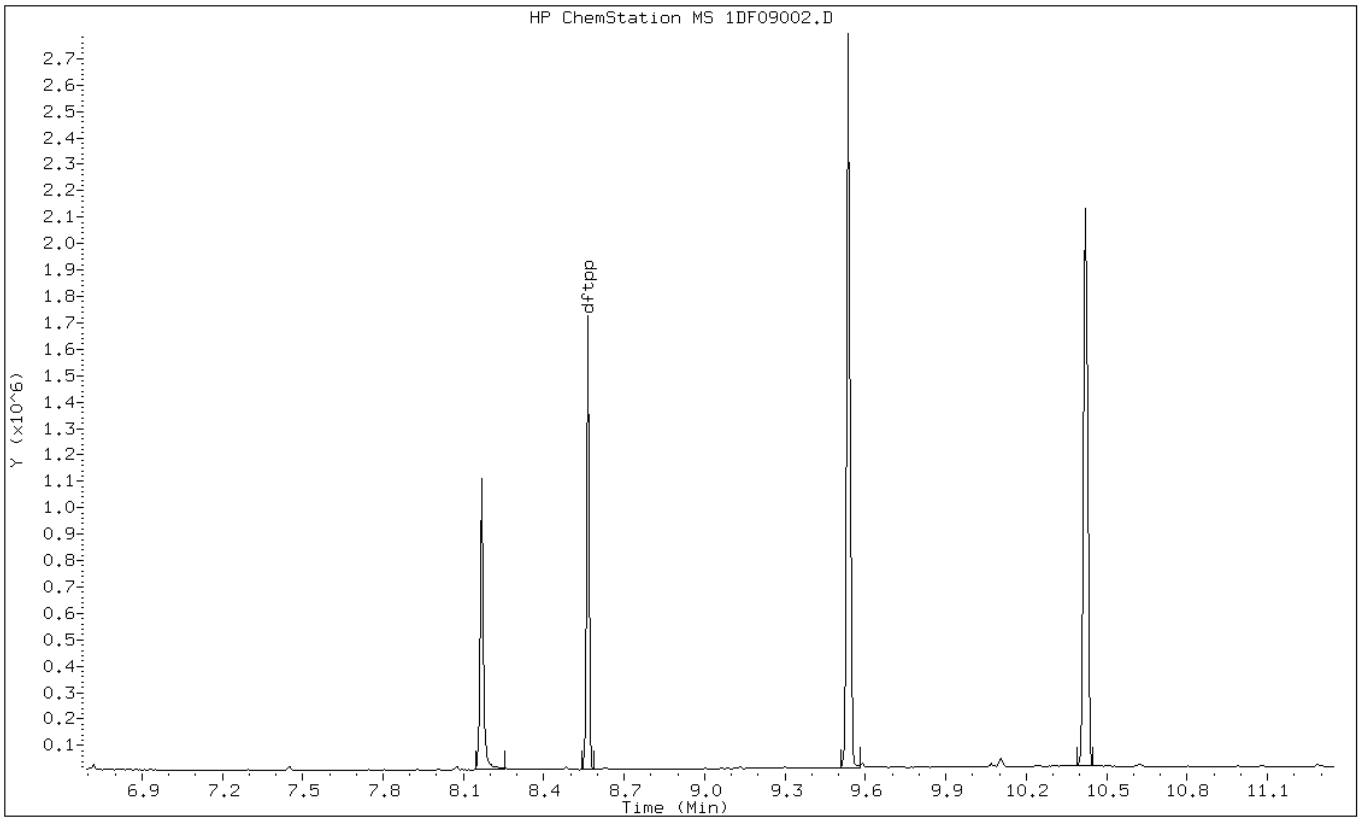
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.563	8.532	0.031	198	199552			50.00- 0.00	100.00
8.563	8.532	0.031	51	80480			10.00- 80.00	40.33
8.563	8.532	0.031	68	0	0.0	0.0	0.00- 2.00	0.00
8.563	8.532	0.031	69	84736			0.00- 0.00	42.46
8.563	8.532	0.031	70	586			0.00- 2.00	0.69
8.563	8.532	0.031	127	97632			10.00- 80.00	48.93
8.563	8.532	0.031	197	0	0.0	0.0	0.00- 2.00	0.00
8.563	8.532	0.031	442	108712			50.00- 0.00	54.48
8.563	8.532	0.031	199	13716			5.00- 9.00	6.87
8.563	8.532	0.031	275	51296			10.00- 60.00	25.71
8.563	8.532	0.031	365	6656			1.00- 0.00	3.34
8.563	8.532	0.031	441	16100			0.01- 99.99	70.29
8.563	8.532	0.031	443	22904			15.00- 24.00	21.07

Data File: 1DF09002.D

Date: 09-JUN-2013 09:45

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



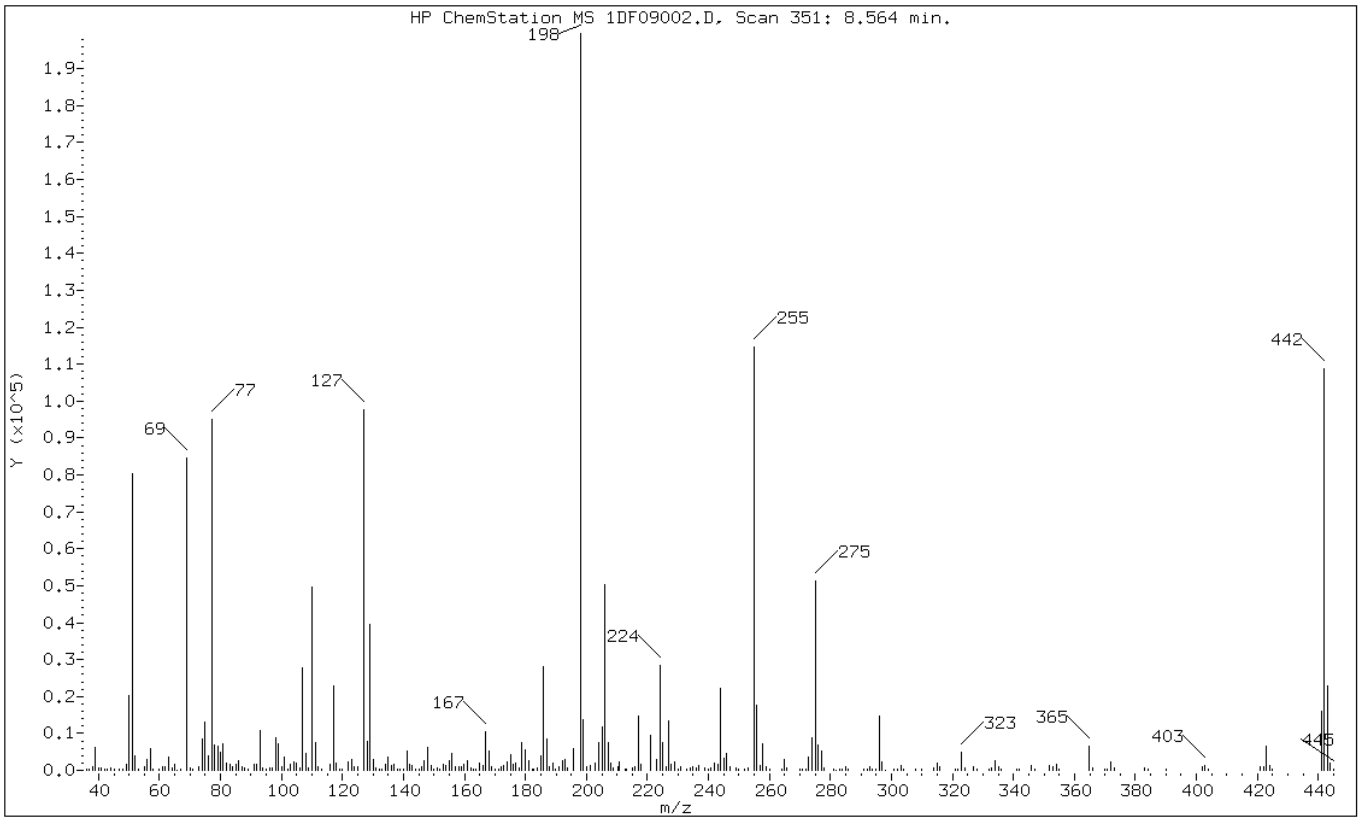
Data File: 1DF09002.D

Date: 09-JUN-2013 09:45

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	40.33
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.46
70	Less than 2.00% of mass 69	0.29 (0.69)
127	10.00 - 80.00% of mass 198	48.93
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	54.48
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 60.00% of mass 198	25.71
365	Greater than 1.00% of mass 198	3.34
441	Present, but less than mass 443	8.07
443	15.00 - 24.00% of mass 442	11.48 (21.07)

Data File: 1DF09002.D

Date: 09-JUN-2013 09:45

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09002.D
Spectrum: HP ChemStation MS 1DF09002.D, Scan 351: 8.564 min.
Location of Maximum: 197.90
Number of points: 279

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	229	112.00	1037	186.00	28128	273.90	8947
36.90	426	113.10	330	186.90	8380	275.00	51296
38.10	819	116.00	1677	187.90	850	275.90	6729
39.00	6218	116.90	22776	188.90	2033	276.90	5299
40.00	786	117.90	1953	189.90	351	277.80	703
41.00	706	119.10	319	190.90	946	280.90	272
42.10	249	119.90	384	192.00	2663	281.90	157
42.90	487	121.90	2167	192.90	2802	283.10	468
43.90	517	122.90	2958	193.90	621	284.00	260
45.00	244	123.90	1095	195.90	5808	284.90	951
46.90	272	125.00	975	197.90	199552	285.90	168
48.00	167	127.00	97632	198.90	13716	291.00	183
49.00	1498	128.00	7876	199.90	1136	292.00	279
50.00	20312	128.90	39632	201.40	1196	293.00	1076
51.00	80480	130.00	2791	202.90	1831	293.70	347
52.00	3875	130.90	753	204.00	7458	294.90	472
53.00	287	132.10	476	205.00	11656	295.90	14748
55.00	897	133.00	304	205.90	50328	297.00	2306
56.00	2802	133.90	1523	207.00	7387	297.90	154
57.00	6001	135.00	3651	207.90	2084	300.90	204
57.90	309	135.90	1387	208.90	631	302.00	367
60.00	227	137.00	1739	210.20	1021	303.00	1438
60.90	842	137.90	384	210.90	2123	304.00	373
61.90	1036	139.00	235	212.80	173	307.80	304
63.00	3639	139.90	395	213.00	174	309.90	283
64.00	570	141.00	5377	214.90	671	313.80	763
65.00	1660	141.90	1659	215.90	1109	314.90	1800
65.90	159	142.90	1243	216.90	14718	316.00	1113
67.10	266	143.90	354	217.90	1764	320.90	437
68.90	84736	145.00	292	221.00	9370	321.90	233
70.00	586	146.00	1054	222.90	3043	323.00	4736
70.90	198	146.90	2729	224.00	28320	324.00	801
72.90	938	147.90	6325	224.90	7355	326.80	929
74.00	8646	148.90	1259	226.00	821	327.90	387
75.00	13181	149.80	465	226.90	13539	332.00	248
76.00	3909	150.90	631	227.90	1757	332.90	537
77.00	95184	151.90	372	228.90	2370	333.90	2776
78.00	6998	152.90	1726	230.00	270	335.00	845
79.00	6374	153.90	1277	230.90	879	336.10	170
80.00	4917	155.00	2503	233.00	353	341.00	438

80.90	7132	156.00	4482	234.00	749	341.80	252
82.00	2108	156.90	895	235.00	1040	345.90	1153
83.00	1638	158.00	972	235.90	615	346.90	304
83.90	972	159.00	867	236.90	1229	351.90	1279
85.00	1473	159.90	1659	238.90	572	352.90	1084
86.00	2681	160.90	2475	239.80	395	354.00	1504
87.00	990	162.00	684	240.90	624	355.00	302
88.00	544	162.90	371	242.00	1843	364.90	6656
89.00	210	163.90	222	243.00	1716	365.80	743
90.90	1730	164.90	1955	244.00	22072	370.10	210
92.00	1534	165.90	1174	244.90	3256	370.80	397
93.00	10890	166.90	10327	245.90	4475	371.90	2172
93.90	633	167.90	5205	246.90	869	373.00	507
94.90	367	168.90	998	249.00	755	382.80	516
96.00	627	170.10	428	249.80	254	384.20	177
97.00	498	171.10	482	251.90	251	390.00	298
98.00	8678	171.90	1025	252.90	744	402.00	868
99.00	7062	172.90	1264	254.90	114704	402.90	1345
100.00	836	173.90	2161	255.90	17512	403.90	480
100.90	3550	175.00	4232	257.00	1426	420.90	859
102.10	204	175.90	1560	257.90	7066	421.90	825
103.00	1551	176.90	1896	258.90	891	422.90	6686
104.00	2379	177.90	727	260.00	203	423.90	1275
104.90	2099	178.90	7552	263.90	280	424.90	194
106.00	796	179.90	5688	264.90	2995	441.00	16100
107.00	27816	180.90	2686	265.80	606	441.90	108712
108.00	4447	182.10	434	269.90	209	442.90	22904
108.90	766	182.80	323	270.90	293	443.90	1858
109.90	49528	183.90	727	272.00	239	445.00	193
111.00	7468	185.00	3944	272.90	3677		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: | Lab Sample ID: MB 660-138015/1-A

Matrix: Solid | Lab File ID: 1DF09005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.03(g) | Date Analyzed: 06/09/2013 10:49

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.: 138216 | 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	84		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09005.D
Lab Smp Id: mb 660-138015/1-a
Inj Date : 09-JUN-2013 10:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-138015/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 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	15.030	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	6.263	(1.000)	3414403	40.0000	
*	7 Acenaphthene-d10	164	7.930	7.932	(1.000)	1996386	40.0000	
*	11 Phenanthrene-d10	188	9.187	9.189	(1.000)	3209055	40.0000	
$	15 o-Terphenyl	230	9.498	9.500	(1.034)	393382	8.36742	560
*	19 Chrysene-d12	240	11.549	11.557	(1.000)	3312651	40.0000	
*	24 Perylene-d12	264	13.453	13.460	(1.000)	3118448	40.0000	
	12 Phenanthrene	178	9.205	9.207	(1.002)	3240	0.03728	2.5(Q)

QC Flag Legend

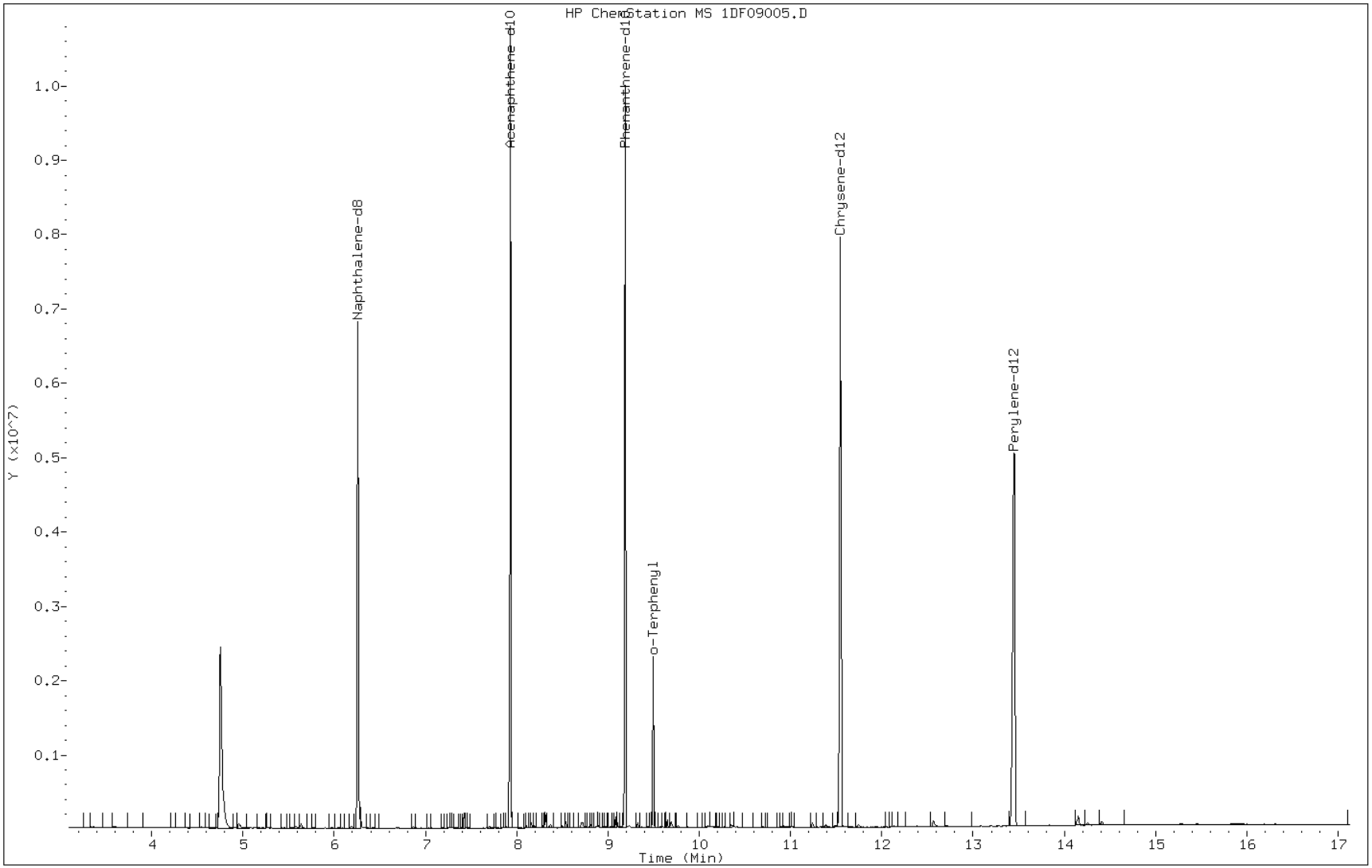
Q - Qualifier signal failed the ratio test.

Data File: 1DF09005.D

Date: 09-JUN-2013 10:49

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-138015/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

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

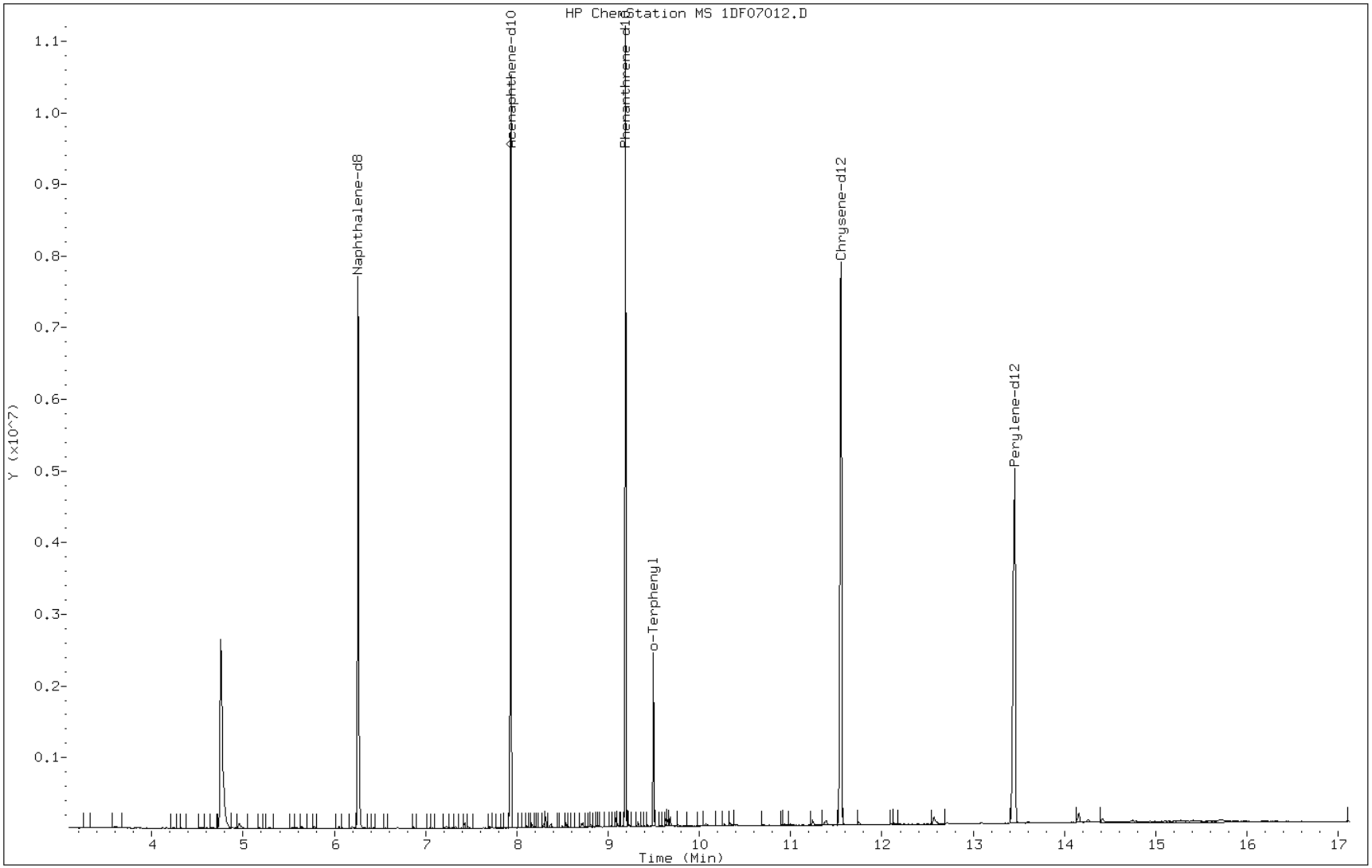
Q - Qualifier signal failed the ratio test.

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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: | Lab Sample ID: LCS 660-138015/2-A

Matrix: Solid | Lab File ID: 1DF09006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.03(g) | Date Analyzed: 06/09/2013 11:12

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.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	548		100	20
208-96-8	Acenaphthylene	587		40	5.0
120-12-7	Anthracene	583		8.4	4.2
56-55-3	Benzo[a]anthracene	504		8.0	3.9
50-32-8	Benzo[a]pyrene	511		10	5.2
205-99-2	Benzo[b]fluoranthene	567		12	6.1
191-24-2	Benzo[g,h,i]perylene	577		20	4.4
207-08-9	Benzo[k]fluoranthene	556		8.0	3.6
218-01-9	Chrysene	511		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	557		20	4.1
206-44-0	Fluoranthene	578		20	4.0
86-73-7	Fluorene	593		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	532		20	7.1
90-12-0	1-Methylnaphthalene	537		40	4.4
91-57-6	2-Methylnaphthalene	586		40	7.1
91-20-3	Naphthalene	552		40	4.4
85-01-8	Phenanthrene	560		8.0	3.9
129-00-0	Pyrene	520		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09006.D
Lab Smp Id: lcs 660-138015/2-a
Inj Date : 09-JUN-2013 11:12
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-138015/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 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	15.030	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	6.260	6.263	(1.000)	3444683	40.0000	
*	7 Acenaphthene-d10	164	7.934	7.932	(1.000)	2068111	40.0000	
*	11 Phenanthrene-d10	188	9.191	9.189	(1.000)	3434704	40.0000	
$	15 o-Terphenyl	230	9.497	9.500	(1.033)	413027	8.20812	550
*	19 Chrysene-d12	240	11.553	11.557	(1.000)	3615125	40.0000	
*	24 Perylene-d12	264	13.457	13.460	(1.000)	3424339	40.0000	
	2 Naphthalene	128	6.277	6.281	(1.003)	704633	8.29491	550
	3 2-Methylnaphthalene	142	6.976	6.980	(1.115)	476286	8.80584	580
	4 1-Methylnaphthalene	142	7.070	7.074	(1.130)	449422	8.07113	540
	6 Acenaphthylene	152	7.805	7.802	(0.984)	756882	8.82693	590
	8 Acenaphthene	154	7.958	7.961	(1.003)	448287	8.24127	550
	10 Fluorene	166	8.398	8.402	(1.058)	548790	8.91672	590
	12 Phenanthrene	178	9.209	9.207	(1.002)	782628	8.41327	560
	13 Anthracene	178	9.244	9.248	(1.006)	790497	8.75819	580

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.190	10.194	(1.109)	826853	8.68853	580
17 Pyrene	202	10.378	10.382	(0.898)	827843	7.82148	520
18 Benzo(a)anthracene	228	11.536	11.539	(0.998)	812990	7.57757	500
20 Chrysene	228	11.577	11.580	(1.002)	742110	7.68136	510
21 Benzo(b)fluoranthene	252	12.887	12.896	(0.958)	730468	8.51487	570
22 Benzo(k)fluoranthene	252	12.922	12.938	(0.960)	750927	8.35883	560
23 Benzo(a)pyrene	252	13.351	13.361	(0.992)	643966	7.68087	510
25 Indeno(1,2,3-cd)pyrene	276	15.090	15.111	(1.121)	698096	7.99109	530(M)
26 Dibenzo(a,h)anthracene	278	15.126	15.147	(1.124)	679080	8.36950	560
27 Benzo(g,h,i)perylene	276	15.560	15.587	(1.156)	674284	8.67197	580

QC Flag Legend

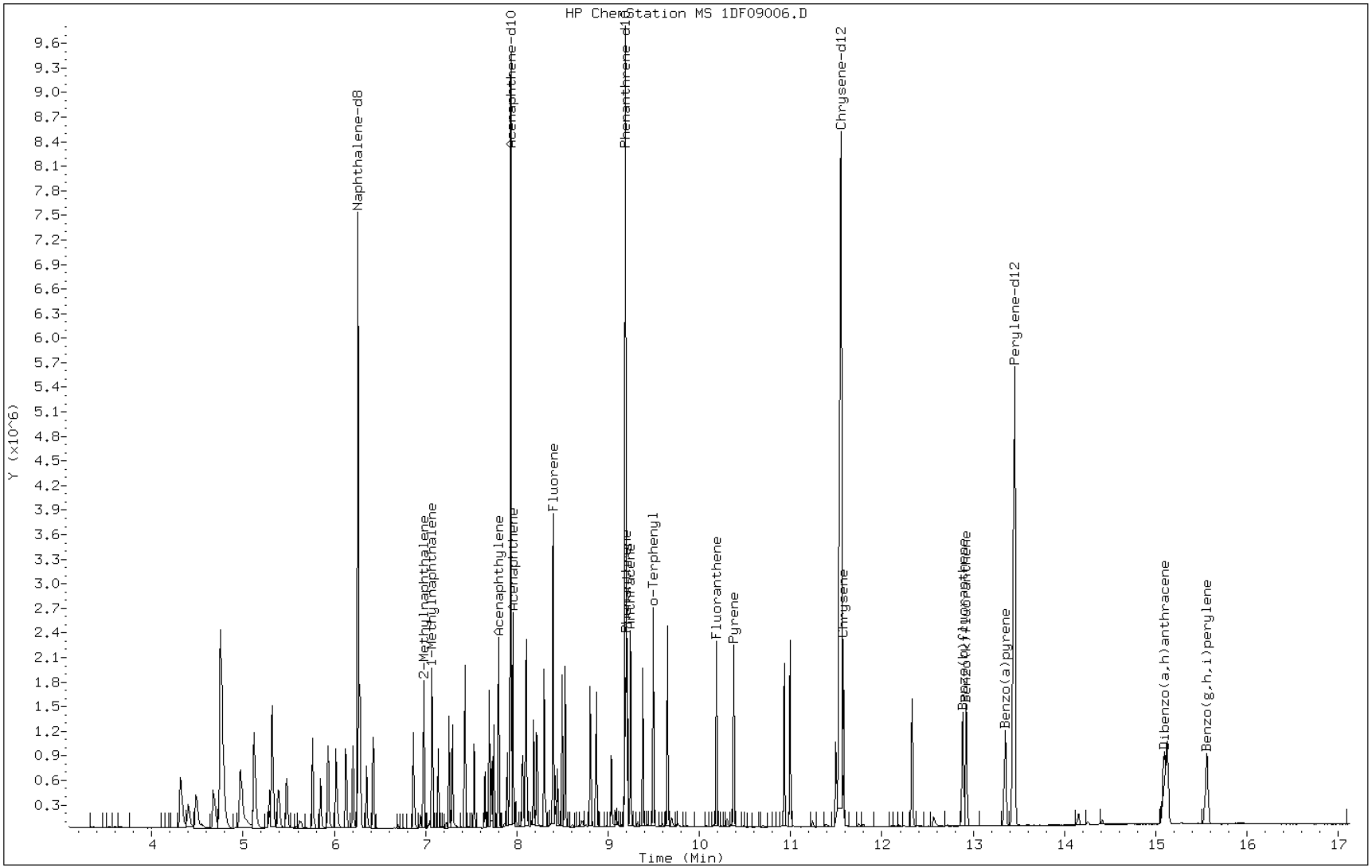
M - Compound response manually integrated.

Data File: 1DF09006.D

Date: 09-JUN-2013 11:12

Client ID: Instrument: BSMSD.i

Sample Info: lcs 660-138015/2-a Operator: SCC



Manual Integration Report

Data File: 1DF09006.D
Inj. Date and Time: 09-JUN-2013 11:12
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

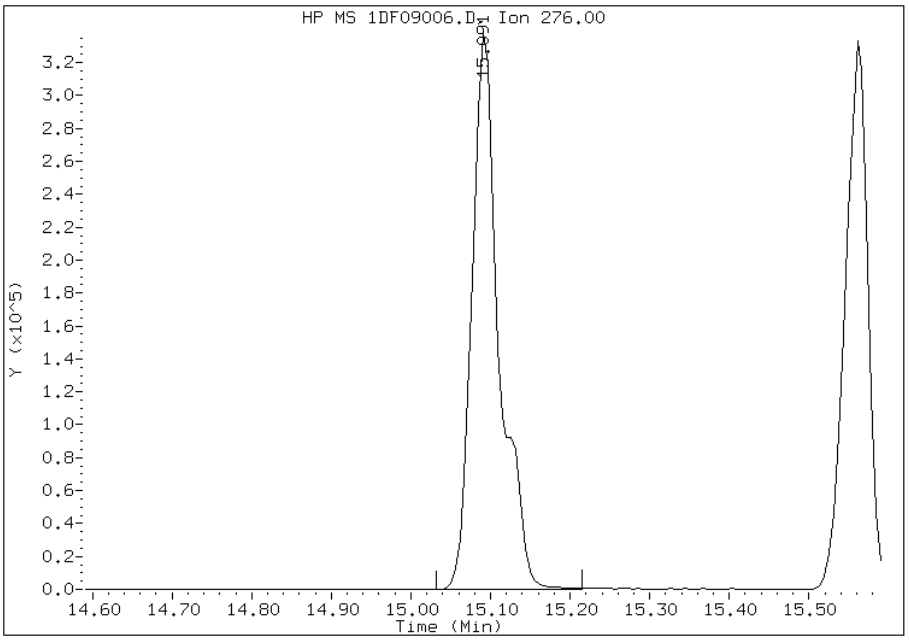
Processing Integration Results

RT: 15.09

Response: 798870

Amount: 9

Conc: 607



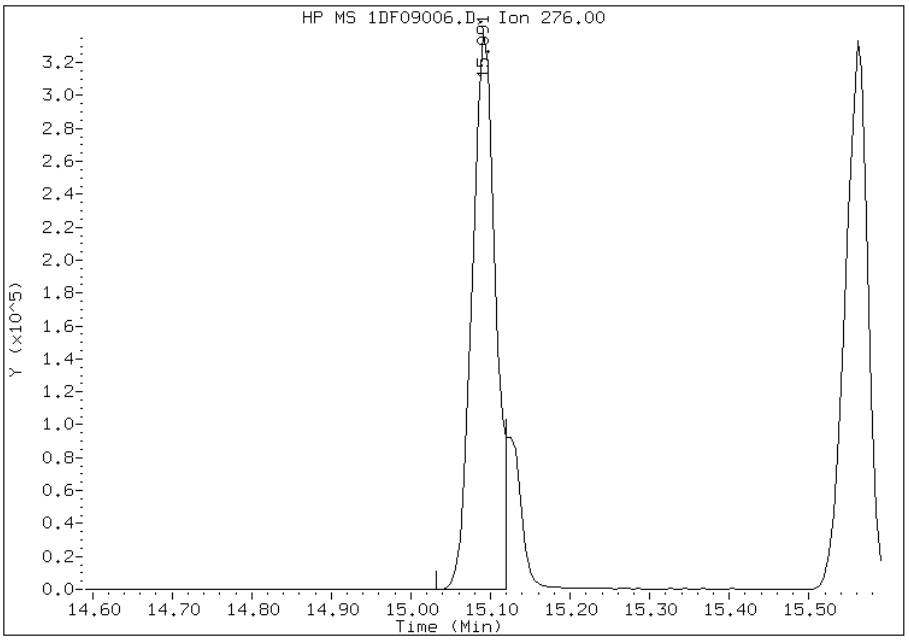
Manual Integration Results

RT: 15.09

Response: 698096

Amount: 8

Conc: 532



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 11:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90852-2

SDG No.: 68090852-2

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)	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

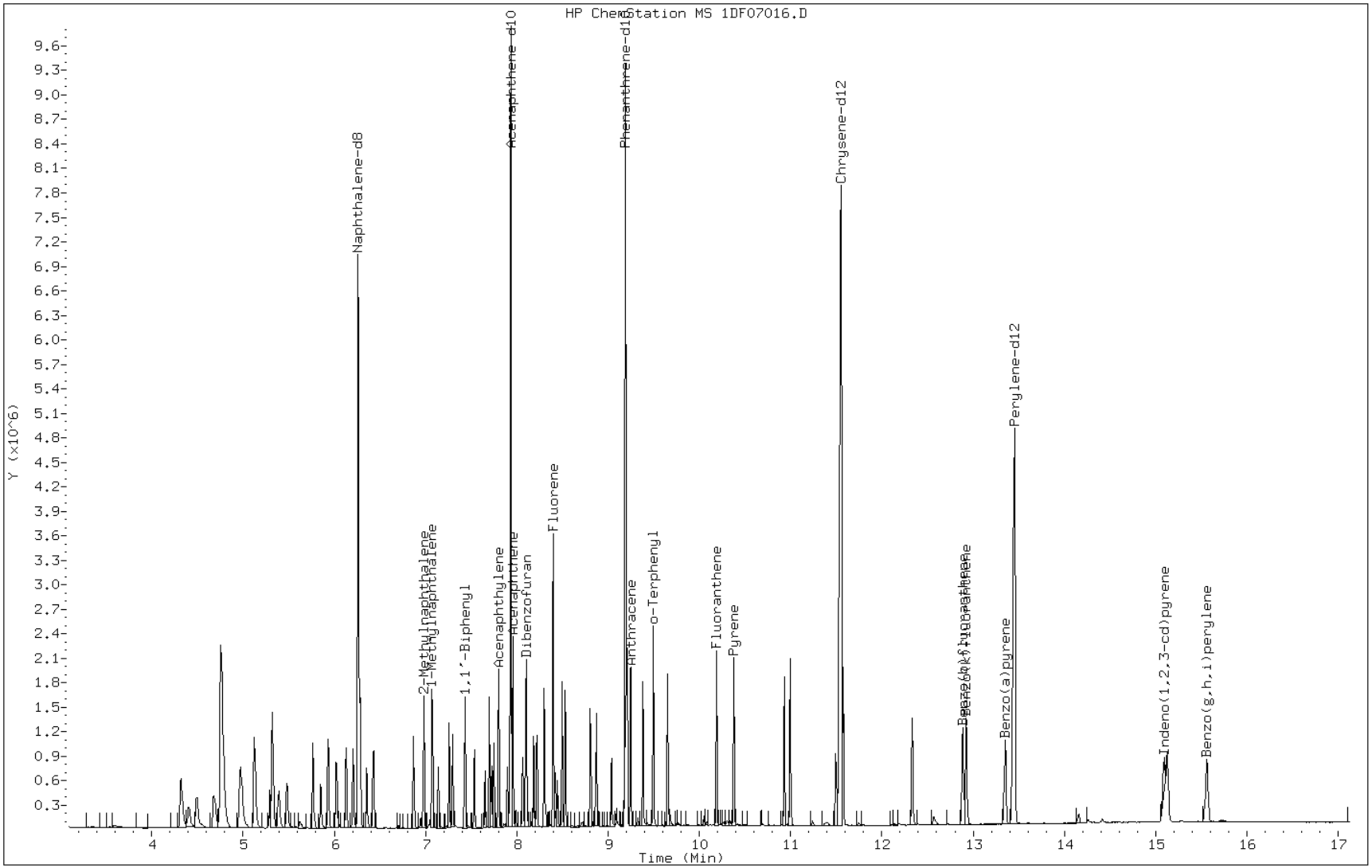
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

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.: 680-90852-2

SDG No.: 68090852-2

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

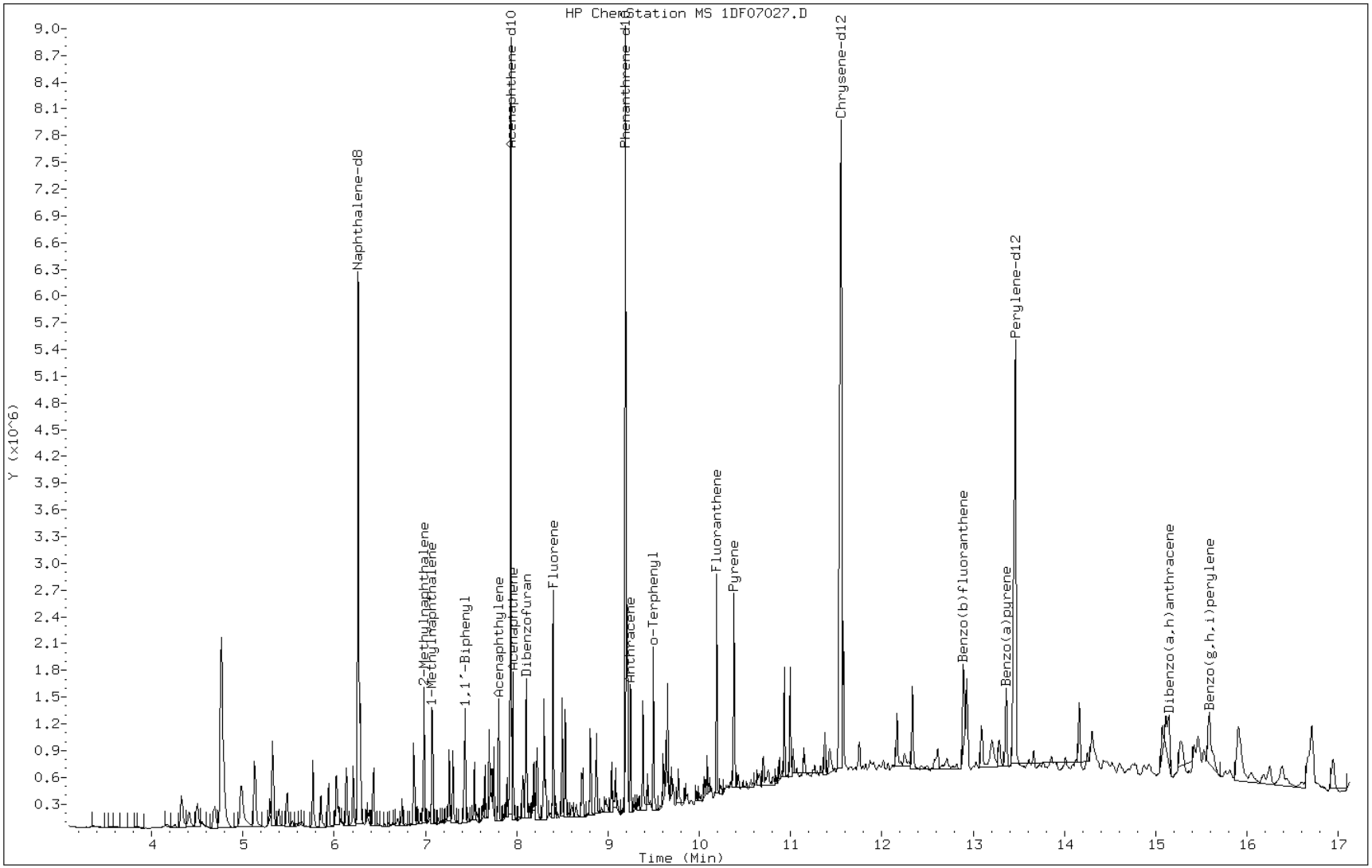
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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

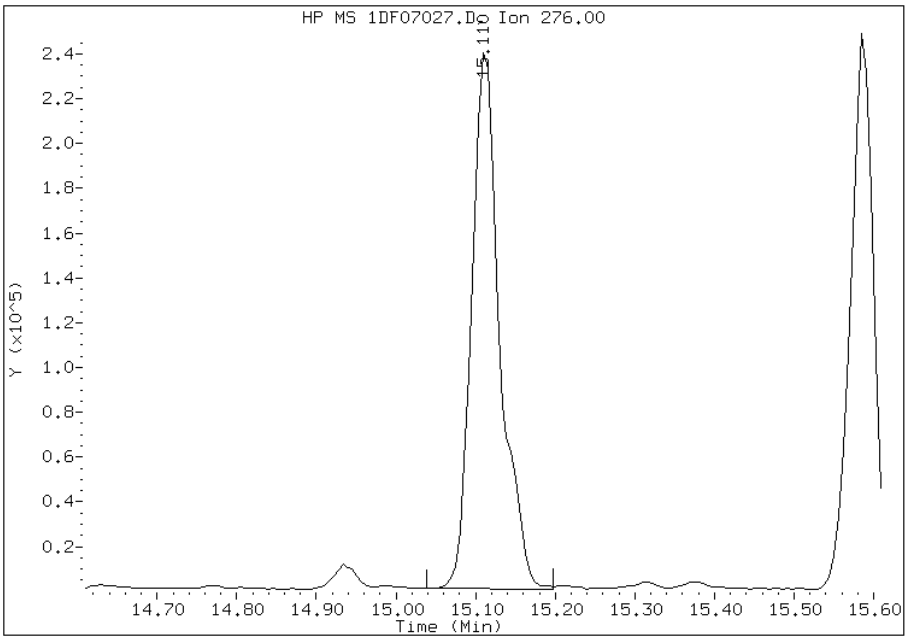
Processing Integration Results

RT: 15.11

Response: 585621

Amount: 8

Conc: 516



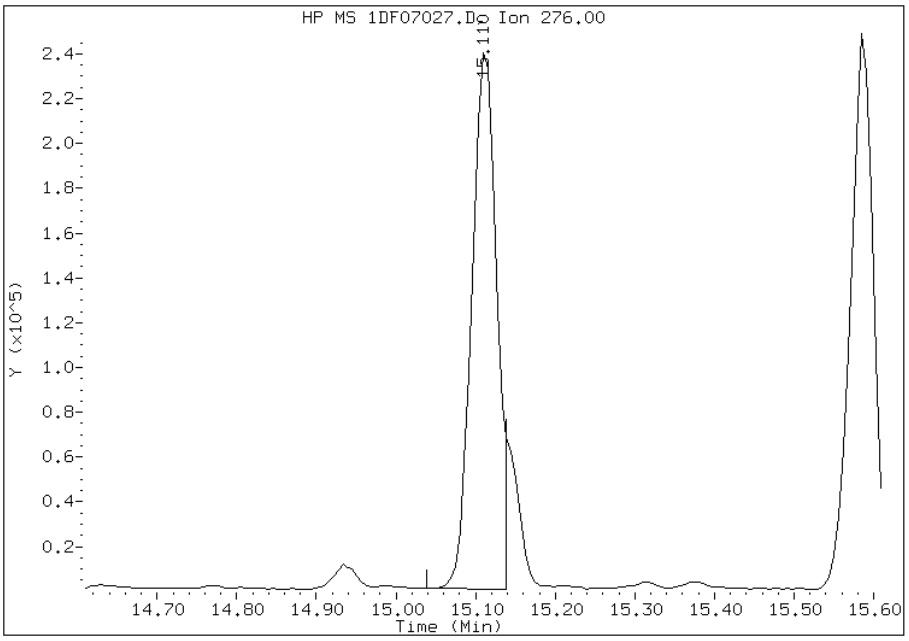
Manual Integration Results

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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0098C-CS-SP MS | Lab Sample ID: 680-90852-22 MS

Matrix: Solid | Lab File ID: 1DF09018.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 09:23

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.02(g) | Date Analyzed: 06/09/2013 15:42

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	461		120	24
208-96-8	Acenaphthylene	537		49	6.1
120-12-7	Anthracene	560		10	5.1
56-55-3	Benzo[a]anthracene	568		9.8	4.8
50-32-8	Benzo[a]pyrene	557		13	6.3
205-99-2	Benzo[b]fluoranthene	857		15	7.4
191-24-2	Benzo[g,h,i]perylene	394		24	5.4
207-08-9	Benzo[k]fluoranthene	594		9.8	4.4
218-01-9	Chrysene	605		11	5.5
53-70-3	Dibenz(a,h)anthracene	396		24	5.0
206-44-0	Fluoranthene	607		24	4.9
86-73-7	Fluorene	503		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	404		24	8.7
90-12-0	1-Methylnaphthalene	486		49	5.4
91-57-6	2-Methylnaphthalene	549		49	8.7
91-20-3	Naphthalene	542		49	5.4
85-01-8	Phenanthrene	575		9.8	4.8
129-00-0	Pyrene	536		24	4.5

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\1D060913.b\1DF09018.D
Lab Smp Id: 680-90852-a-22-b ms
Inj Date : 09-JUN-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-22-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 17 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	15.020	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	6.271	6.263	(1.000)	3233915	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.932	(1.000)	1821156	40.0000	
* 11 Phenanthrene-d10	188	9.203	9.189	(1.000)	2827499	40.0000	
$ 15 o-Terphenyl	230	9.503	9.500	(1.033)	216662	5.23040	350
* 19 Chrysene-d12	240	11.577	11.557	(1.000)	3016240	40.0000	
* 24 Perylene-d12	264	13.504	13.460	(1.000)	2851049	40.0000	(H)
2 Naphthalene	128	6.289	6.281	(1.003)	531555	6.66527	440
3 2-Methylnaphthalene	142	6.988	6.980	(1.114)	343214	6.75910	450
4 1-Methylnaphthalene	142	7.082	7.074	(1.129)	312338	5.97483	400
6 Acenaphthylene	152	7.810	7.802	(0.984)	499124	6.61023	440
8 Acenaphthene	154	7.963	7.961	(1.003)	271407	5.66612	380
10 Fluorene	166	8.410	8.402	(1.059)	335350	6.18762	410
12 Phenanthrene	178	9.220	9.207	(1.002)	541256	7.06804	470
13 Anthracene	178	9.256	9.248	(1.006)	511487	6.88392	460

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.202	10.194	(1.109)	585226	7.47014	500
17 Pyrene	202	10.390	10.382	(0.897)	582608	6.59743	440
18 Benzo(a)anthracene	228	11.559	11.539	(0.998)	625644	6.98923	460
20 Chrysene	228	11.600	11.580	(1.002)	600243	7.44654	500
21 Benzo(b)fluoranthene	252	12.934	12.896	(0.958)	753152	10.5446	700(H)
22 Benzo(k)fluoranthene	252	12.969	12.938	(0.960)	546534	7.30696	490(H)
23 Benzo(a)pyrene	252	13.404	13.361	(0.993)	477854	6.85636	460(H)
25 Indeno(1,2,3-cd)pyrene	276	15.172	15.111	(1.124)	357535	4.97263	330(MH)
26 Dibenzo(a,h)anthracene	278	15.202	15.147	(1.126)	326934	4.86997	320(H)
27 Benzo(g,h,i)perylene	276	15.654	15.587	(1.159)	313995	4.85031	320(H)

QC Flag Legend

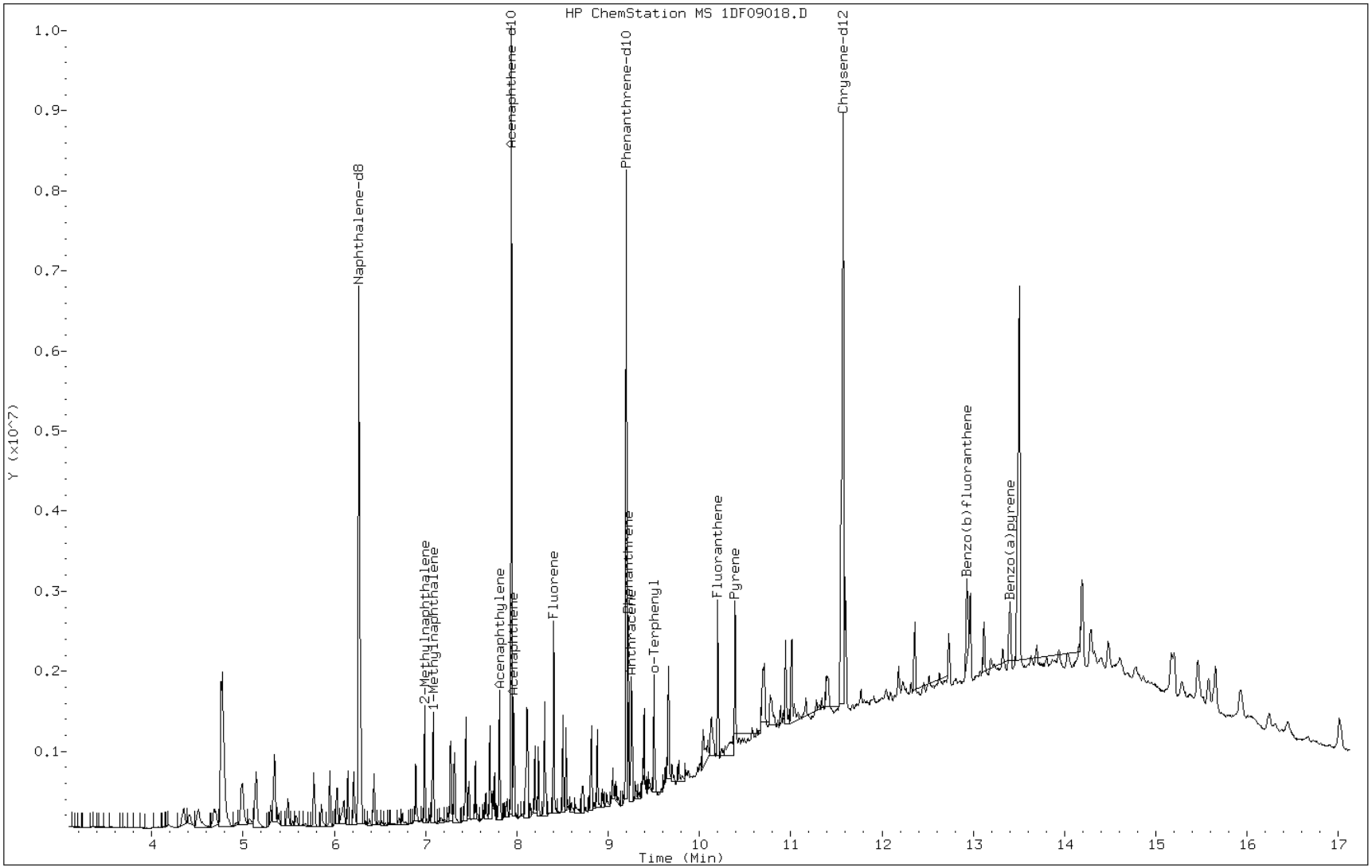
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF09018.D

Date: 09-JUN-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: 680-90852-a-22-b ms Operator: SCC



Manual Integration Report

Data File: 1DF09018.D
Inj. Date and Time: 09-JUN-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

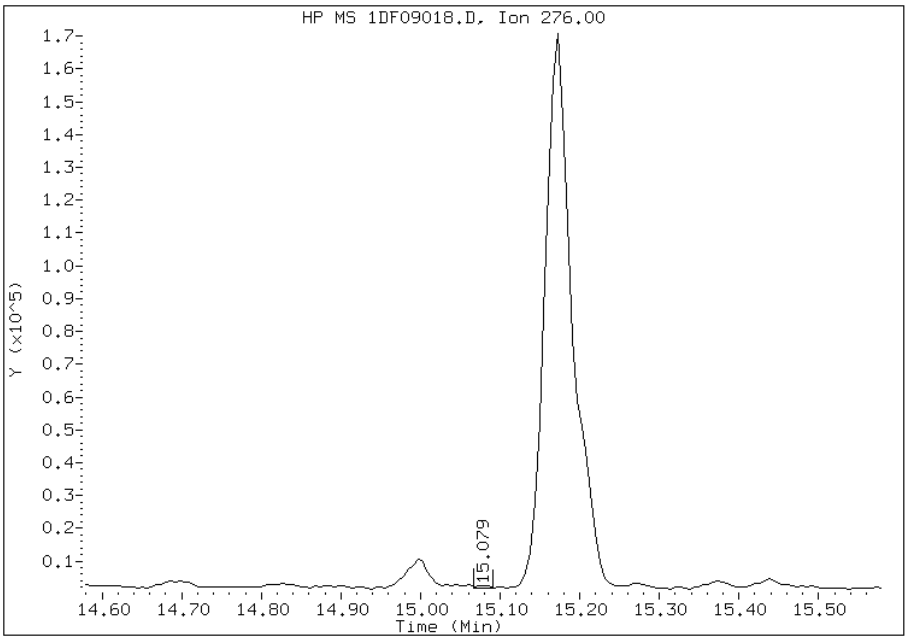
Processing Integration Results

RT: 15.08

Response: 1056

Amount: 0

Conc: 11



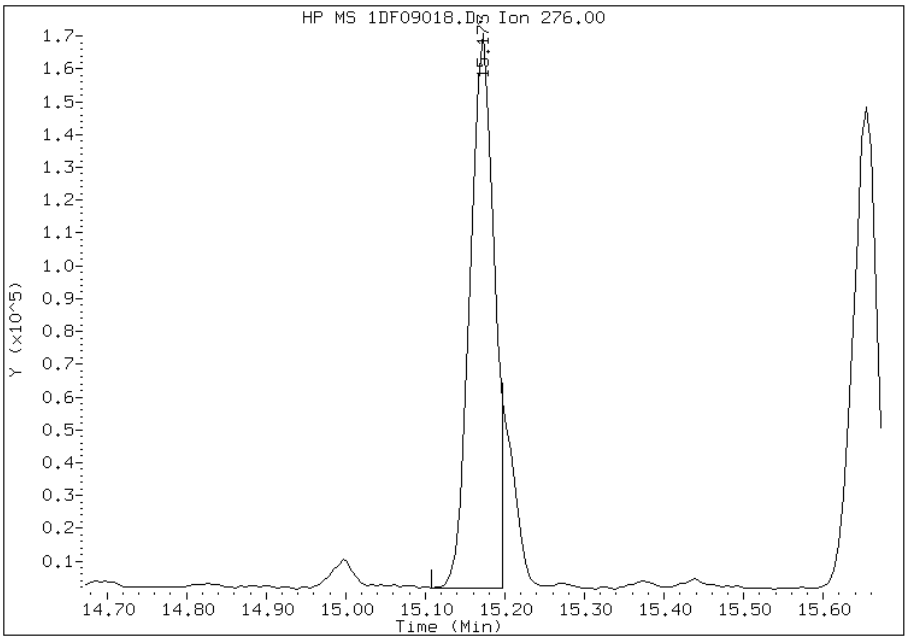
Manual Integration Results

RT: 15.17

Response: 357535

Amount: 5

Conc: 331



Manually Integrated By: cantins
Modification Date: 10-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.: 680-90852-2

SDG No.: 68090852-2

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

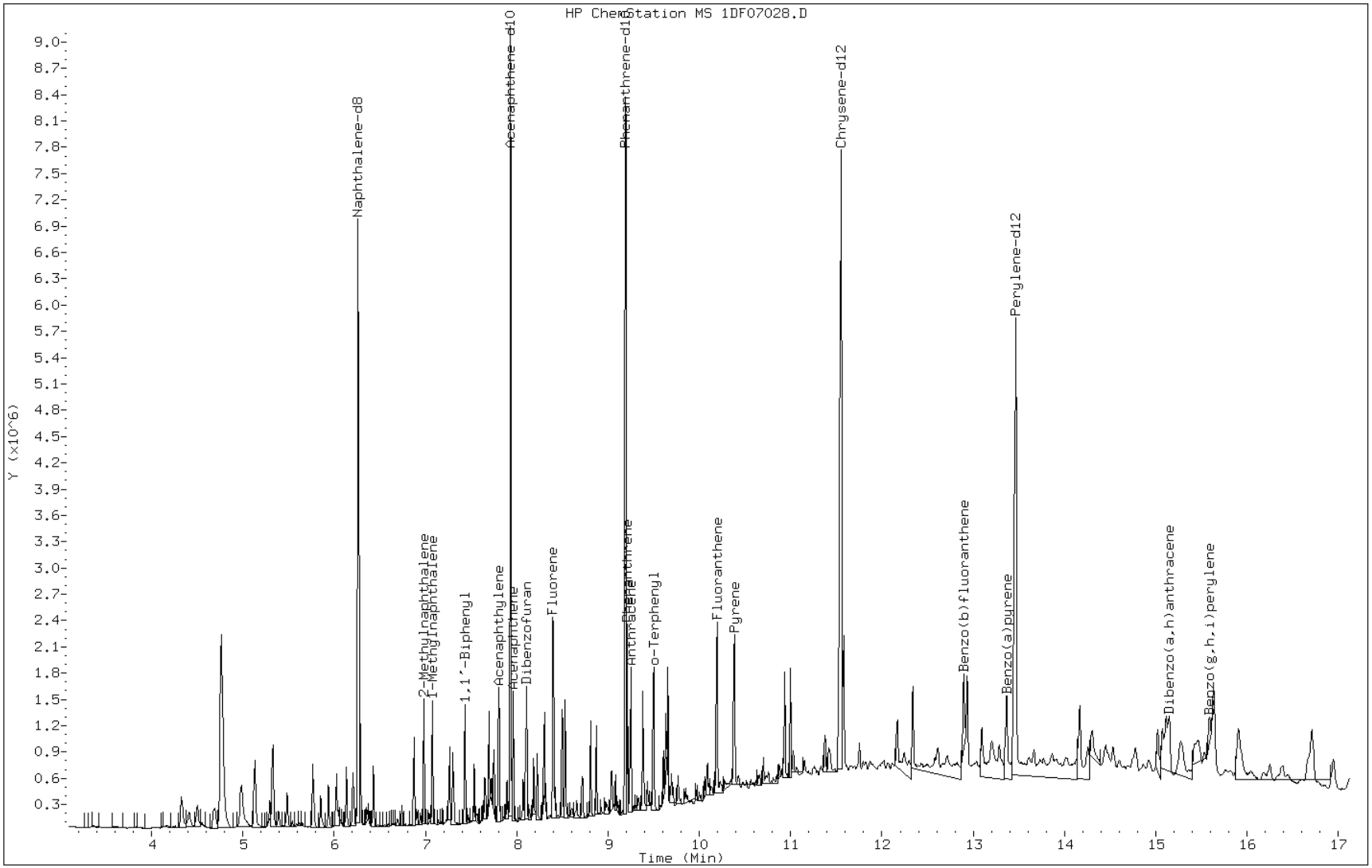
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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

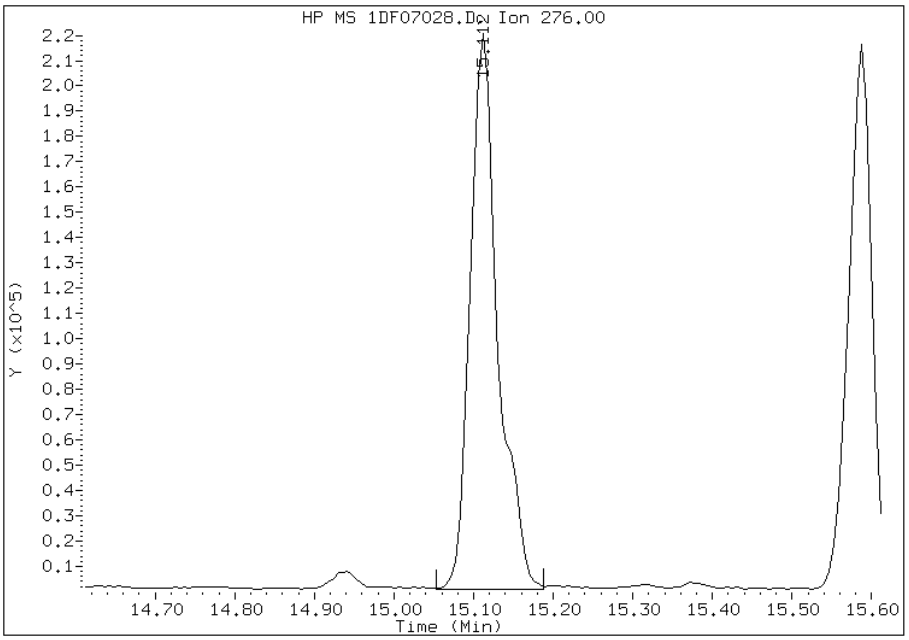
Processing Integration Results

RT: 15.11

Response: 526908

Amount: 7

Conc: 453



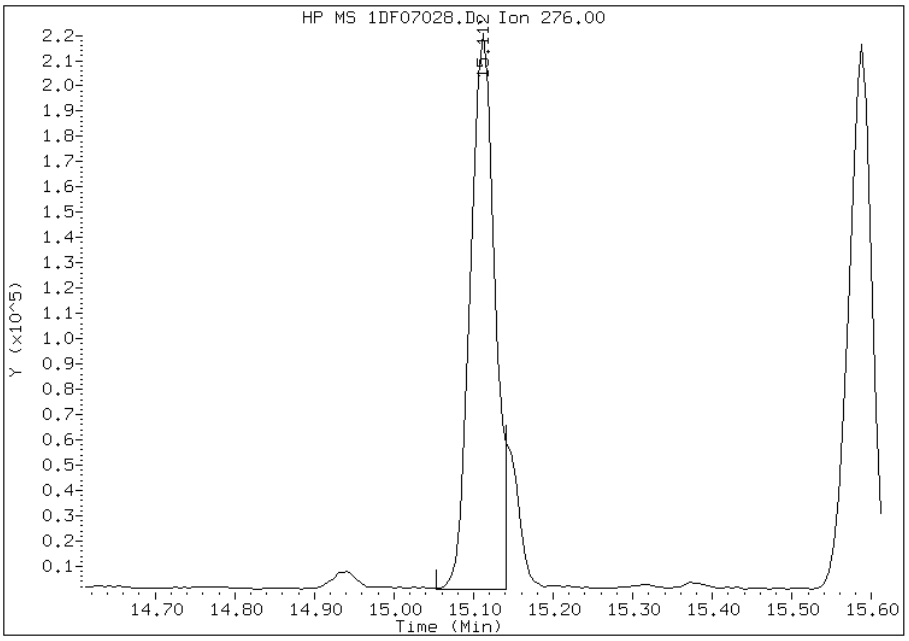
Manual Integration Results

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.: 680-90852-2

SDG No.: 68090852-2

Client Sample ID: FM0098C-CS-SP MSD | Lab Sample ID: 680-90852-22 MSD

Matrix: Solid | Lab File ID: 1DF09019.D

Analysis Method: 8270C LL | Date Collected: 05/29/2013 09:23

Extract. Method: 3546 | Date Extracted: 06/04/2013 06:47

Sample wt/vol: 15.02(g) | Date Analyzed: 06/09/2013 16:05

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	542		120	24
208-96-8	Acenaphthylene	629		49	6.1
120-12-7	Anthracene	645		10	5.1
56-55-3	Benzo[a]anthracene	660		9.8	4.8
50-32-8	Benzo[a]pyrene	665		13	6.3
205-99-2	Benzo[b]fluoranthene	1040		15	7.4
191-24-2	Benzo[g,h,i]perylene	475		24	5.4
207-08-9	Benzo[k]fluoranthene	705		9.8	4.4
218-01-9	Chrysene	708		11	5.5
53-70-3	Dibenz(a,h)anthracene	468		24	5.0
206-44-0	Fluoranthene	699		24	4.9
86-73-7	Fluorene	590		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	488		24	8.7
90-12-0	1-Methylnaphthalene	594		49	5.4
91-57-6	2-Methylnaphthalene	678		49	8.7
91-20-3	Naphthalene	656		49	5.4
85-01-8	Phenanthrene	649		9.8	4.8
129-00-0	Pyrene	636		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09019.D
Lab Smp Id: 680-90852-a-22-c ms
Inj Date : 09-JUN-2013 16:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90852-a-22-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m
Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 18 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	15.020	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	6.268	6.263	(1.000)	3264004	40.0000	
* 7 Acenaphthene-d10	164	7.943	7.932	(1.000)	1894821	40.0000	
* 11 Phenanthrene-d10	188	9.200	9.189	(1.000)	2969765	40.0000	
$ 15 o-Terphenyl	230	9.506	9.500	(1.033)	263435	6.05488	400
* 19 Chrysene-d12	240	11.580	11.557	(1.000)	3092749	40.0000	
* 24 Perylene-d12	264	13.513	13.460	(1.000)	2844680	40.0000	(H)
2 Naphthalene	128	6.292	6.281	(1.004)	649174	8.06508	540
3 2-Methylnaphthalene	142	6.991	6.980	(1.115)	427114	8.33385	550
4 1-Methylnaphthalene	142	7.085	7.074	(1.130)	385605	7.30838	490
6 Acenaphthylene	152	7.814	7.802	(0.984)	607785	7.73637	520
8 Acenaphthene	154	7.966	7.961	(1.003)	332529	6.67227	440
10 Fluorene	166	8.407	8.402	(1.058)	409422	7.26065	480
12 Phenanthrene	178	9.218	9.207	(1.002)	642194	7.98441	530
13 Anthracene	178	9.259	9.248	(1.006)	619336	7.93611	530

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.205	10.194	(1.109)	707502	8.59831	570
17 Pyrene	202	10.393	10.382	(0.898)	707897	7.81790	520
18 Benzo(a)anthracene	228	11.568	11.539	(0.999)	744861	8.11518	540
20 Chrysene	228	11.603	11.580	(1.002)	720243	8.71420	580
21 Benzo(b)fluoranthene	252	12.943	12.896	(0.958)	913997	12.8252	850(H)
22 Benzo(k)fluoranthene	252	12.978	12.938	(0.960)	647584	8.67735	580(H)
23 Benzo(a)pyrene	252	13.413	13.361	(0.993)	569891	8.17601	540(H)
25 Indeno(1,2,3-cd)pyrene	276	15.187	15.111	(1.124)	433352	6.00880	400(MH)
26 Dibenzo(a,h)anthracene	278	15.217	15.147	(1.126)	386353	5.75468	380(H)
27 Benzo(g,h,i)perylene	276	15.675	15.587	(1.160)	377459	5.84370	390(H)

QC Flag Legend

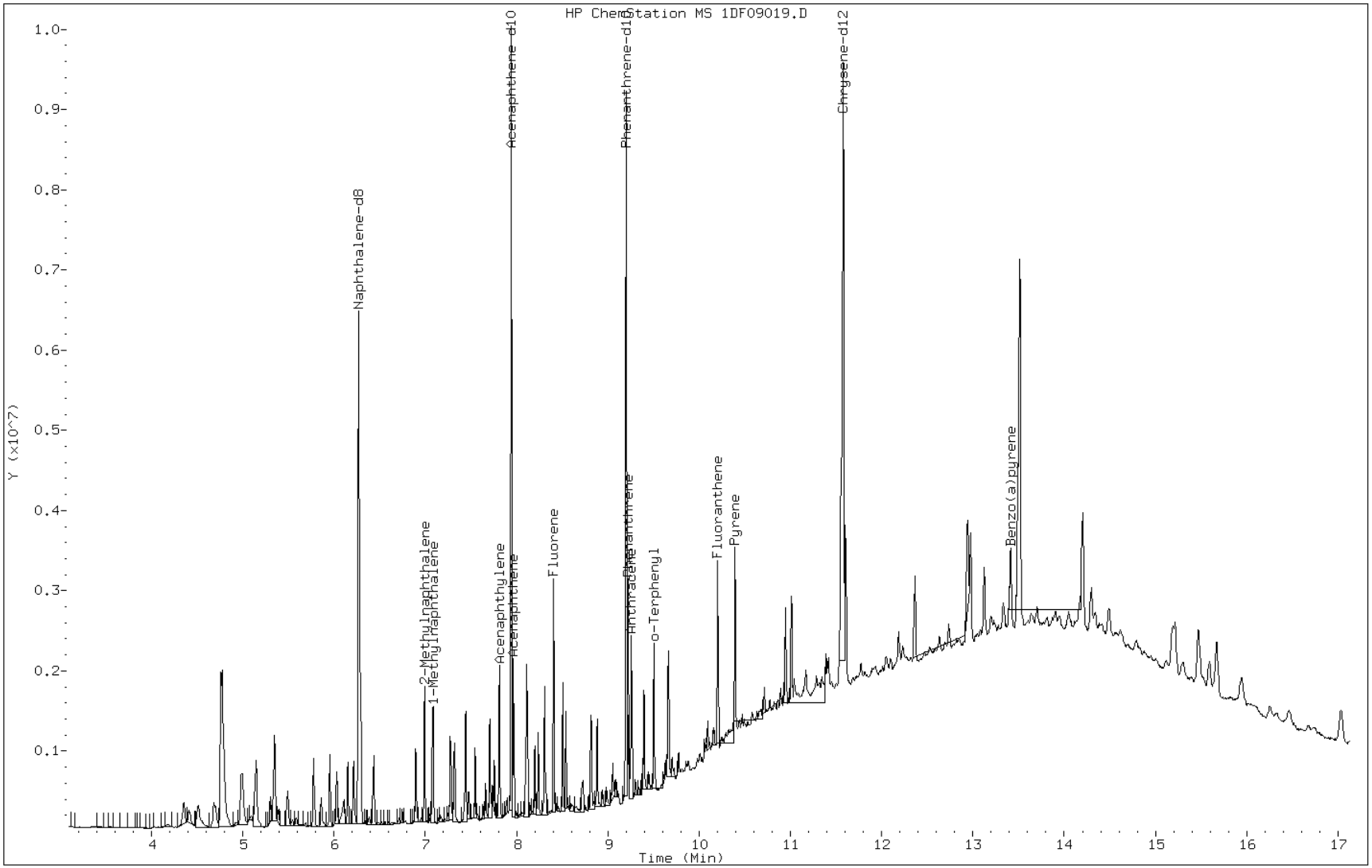
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF09019.D

Date: 09-JUN-2013 16:05

Client ID: Instrument: BSMSD.i

Sample Info: 680-90852-a-22-c msd Operator: SCC



Manual Integration Report

Data File: 1DF09019.D
Inj. Date and Time: 09-JUN-2013 16:05
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/10/2013

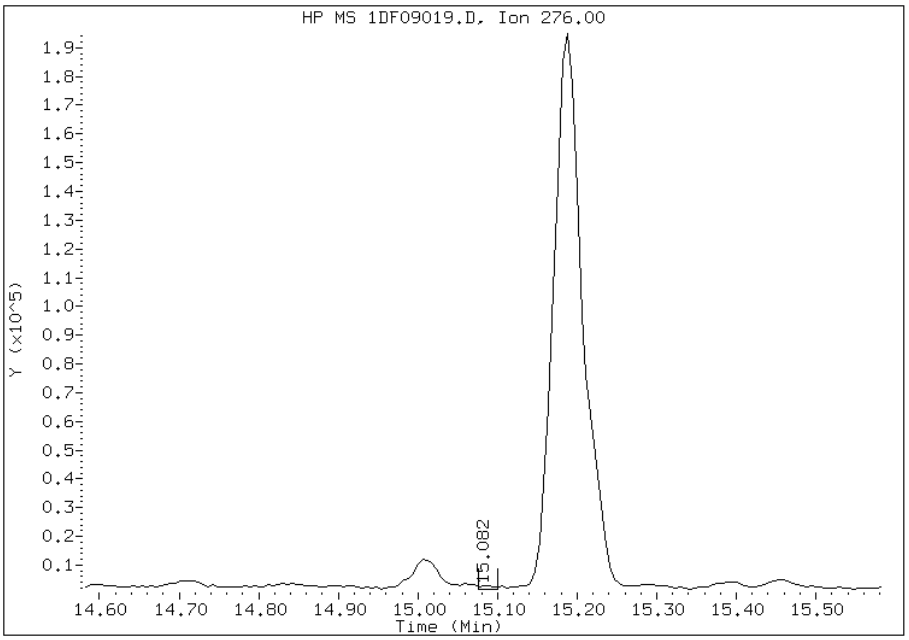
Processing Integration Results

RT: 15.08

Response: 1401

Amount: 0

Conc: 11



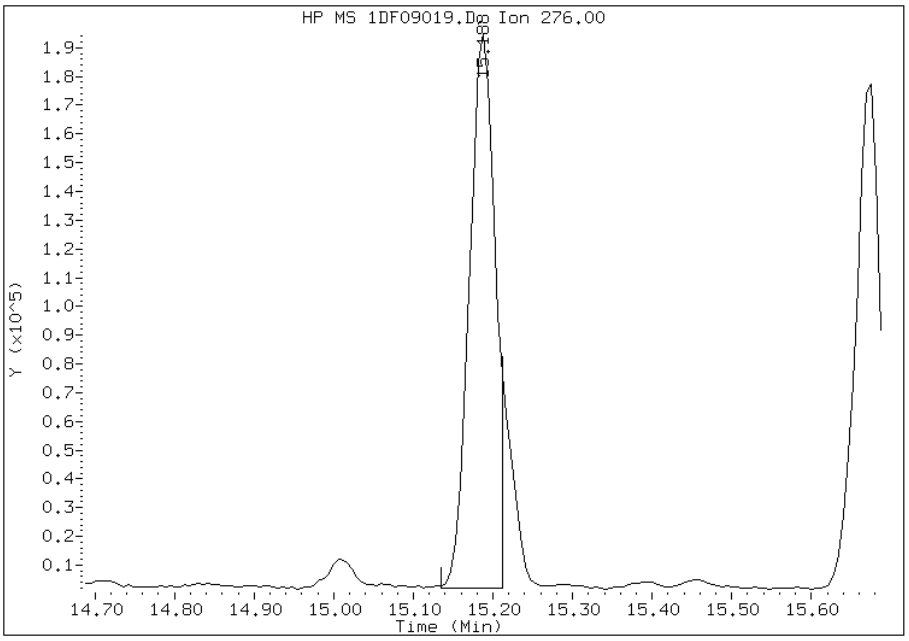
Manual Integration Results

RT: 15.19

Response: 433352

Amount: 6

Conc: 400



Manually Integrated By: cantins
Modification Date: 10-Jun-2013 12:26
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMA5973 Start Date: 05/30/2013 11:28

Analysis Batch Number: 137917 End Date: 05/30/2013 19:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/30/2013 11:28	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 11:43	1		DB-5MS 250(um)
DFTPP 660-137917/2		05/30/2013 11:58	1		DB-5MS 250(um)
CCVIS 660-137917/3		05/30/2013 12:26	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 14:21	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 14:36	1		DB-5MS 250(um)
DFTPP 660-137917/6		05/30/2013 14:51	1	1AE30005.D	DB-5MS 250(um)
ICIS 660-137917/7		05/30/2013 15:07	1	1AE30006.D	DB-5MS 250(um)
IC 660-137917/8		05/30/2013 15:23	1	1AE30007.D	DB-5MS 250(um)
IC 660-137917/9		05/30/2013 15:38	1	1AE30008.D	DB-5MS 250(um)
IC 660-137917/10		05/30/2013 15:53	1	1AE30009.D	DB-5MS 250(um)
IC 660-137917/11		05/30/2013 16:08	1	1AE30010.D	DB-5MS 250(um)
IC 660-137917/12		05/30/2013 16:23	1	1AE30011.D	DB-5MS 250(um)
IC 660-137917/13		05/30/2013 16:38	1	1AE30012.D	DB-5MS 250(um)
ICV 660-137917/14		05/30/2013 16:53	1	1AE30013.D	DB-5MS 250(um)
ZZZZZ		05/30/2013 17:12	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 17:27	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 17:57	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 18:28	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 18:58	1		DB-5MS 250(um)
ZZZZZ		05/30/2013 19:13	680		DB-5MS 250(um)
ZZZZZ		05/30/2013 19:28	680		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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)
ZZZZZ		06/07/2013 12:51	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 13:10	1		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)
ZZZZZ		06/07/2013 14:23	4		DB-5MS 250(um)
ZZZZZ		06/07/2013 14:42	4		DB-5MS 250(um)
ZZZZZ		06/07/2013 15:00	4		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)
680-90852-36	HP0125B-CS-SP	06/07/2013 20:29	1	1CF07032.D	DB-5MS 250(um)
680-90852-37	HP0193A-CS-SP	06/07/2013 20:47	1	1CF07033.D	DB-5MS 250(um)
680-90852-38	HP0193B-CS-SP	06/07/2013 21:06	1	1CF07034.D	DB-5MS 250(um)
680-90852-39	HP0299A-CS-SP	06/07/2013 21:24	1	1CF07035.D	DB-5MS 250(um)
680-90852-40	HP0299B-CS-SP	06/07/2013 21:42	1	1CF07036.D	DB-5MS 250(um)
ZZZZZ		06/07/2013 22:01	1		DB-5MS 250(um)
ZZZZZ		06/07/2013 22:19	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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)
680-90852-33	HP0072A-CS-SP	06/07/2013 21:48	1	1DF07029.D	DB-5MS 250(um)
680-90852-34	HP0072B-CS-SP	06/07/2013 22:10	1	1DF07030.D	DB-5MS 250(um)
680-90852-35	HP0125A-CS-SP	06/07/2013 22:33	4	1DF07031.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Instrument ID: BSMD5973 Start Date: 06/09/2013 08:58

Analysis Batch Number: 138216 End Date: 06/09/2013 22:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/09/2013 08:58	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 09:21	1		DB-5MS 250(um)
DFTPP 660-138216/2		06/09/2013 09:45	1	1DF09002.D	DB-5MS 250(um)
CCVIS 660-138216/3		06/09/2013 10:03	1	1DF09003.D	DB-5MS 250(um)
ZZZZZ		06/09/2013 10:27	1		DB-5MS 250(um)
MB 660-138015/1-A		06/09/2013 10:49	1	1DF09005.D	DB-5MS 250(um)
LCS 660-138015/2-A		06/09/2013 11:12	1	1DF09006.D	DB-5MS 250(um)
680-90852-35 DL	HP0125A-CS-SP DL	06/09/2013 11:34	20	1DF09007.D	DB-5MS 250(um)
ZZZZZ		06/09/2013 11:57	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 12:19	4		DB-5MS 250(um)
ZZZZZ		06/09/2013 12:42	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 13:04	4		DB-5MS 250(um)
ZZZZZ		06/09/2013 13:27	4		DB-5MS 250(um)
ZZZZZ		06/09/2013 13:50	4		DB-5MS 250(um)
ZZZZZ		06/09/2013 14:12	4		DB-5MS 250(um)
ZZZZZ		06/09/2013 14:35	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 14:57	1		DB-5MS 250(um)
680-90852-22	FM0098C-CS-SP	06/09/2013 15:20	1	1DF09017.D	DB-5MS 250(um)
680-90852-22 MS	FM0098C-CS-SP MS	06/09/2013 15:42	1	1DF09018.D	DB-5MS 250(um)
680-90852-22 MSD	FM0098C-CS-SP MSD	06/09/2013 16:05	1	1DF09019.D	DB-5MS 250(um)
680-90852-23	FM0098D-CS-SP	06/09/2013 16:27	1	1DF09020.D	DB-5MS 250(um)
680-90852-24	HP0175A-CS-SP	06/09/2013 16:50	4	1DF09021.D	DB-5MS 250(um)
680-90852-25	HP0175B-CS-SP	06/09/2013 17:13	4	1DF09022.D	DB-5MS 250(um)
680-90852-26	HP0175C-CS-SP	06/09/2013 17:35	1	1DF09023.D	DB-5MS 250(um)
680-90852-27	CV1305A-CS	06/09/2013 17:58	1	1DF09024.D	DB-5MS 250(um)
680-90852-28	CV1305B-CS	06/09/2013 18:20	4	1DF09025.D	DB-5MS 250(um)
680-90852-29	FM0307A-CS	06/09/2013 18:43	4	1DF09026.D	DB-5MS 250(um)
680-90852-30	FM0307B-CS	06/09/2013 19:05	4	1DF09027.D	DB-5MS 250(um)
680-90852-31	FM0352A-CS	06/09/2013 19:28	4	1DF09028.D	DB-5MS 250(um)
680-90852-32	FM0352A-CSD	06/09/2013 19:50	4	1DF09029.D	DB-5MS 250(um)
ZZZZZ		06/09/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 20:35	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 20:58	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 21:20	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 21:43	1		DB-5MS 250(um)
ZZZZZ		06/09/2013 22:06	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Batch Number: 138015 Batch Start Date: 06/04/13 06:47 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 06/04/13 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00181		
MB 660-138015/1		3546, 8270C LL		15.03 g	1 mL		1 mL		
LCS 660-138015/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL		
680-90852-A-22	FM0098C-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-90852-A-22 MS	FM0098C-CS-SP	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-90852-A-22 MSD	FM0098C-CS-SP	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-90852-A-23	FM0098D-CS-SP	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-90852-A-24	HP0175A-CS-SP	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-90852-A-25	HP0175B-CS-SP	3546, 8270C LL	T	15.45 g	1 mL		1 mL		
680-90852-A-26	HP0175C-CS-SP	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-90852-A-27	CV1305A-CS	3546, 8270C LL	T	15.39 g	1 mL		1 mL		
680-90852-A-28	CV1305B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-90852-A-29	FM0307A-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-90852-A-30	FM0307B-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-90852-A-31	FM0352A-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-90852-A-32	FM0352A-CSD	3546, 8270C LL	T	15.05 g	1 mL		1 mL		

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

Batch Number: 138015 Batch Start Date: 06/04/13 06:47 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 06/04/13 17:00

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00083
Balance ID	B001
Batch Comment	none
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	00086
Exchange Solvent Name	DCM/ACETONE
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_00058
MeCl2/Acetone Lot #	ID:DCM/ACETON_00086
Microwave Start Time	08:45 6/4/13
Microwave Stop Time	09:20 6/4/13
MS Lot Number	680-90852-22
Na2SO4 Lot Number	ID:EX-NA2SO4A_00067
Ottawa Sand Lot #	ID:OTTAWA SAND_00020
Person's name who did the prep	ABRAHAM GEORGE
SOP Number	tp-ex-014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	00181
Water Bath ID	Turbo Vap # 1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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		
680-90852-A-33	HP0072A-CS-SP	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-90852-A-34	HP0072B-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-90852-A-35	HP0125A-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-90852-A-36	HP0125B-CS-SP	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-90852-A-37	HP0193A-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-90852-A-38	HP0193B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-90852-A-39	HP0299A-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-90852-A-40	HP0299B-CS-SP	3546, 8270C LL	T	15.00 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		

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.: 680-90852-2

SDG No.: 68090852-2

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

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

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: 680-90852-2

SDG No.: 68090852-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0098C-CS-SP	680-90852-22
FM0098D-CS-SP	680-90852-23
HP0175A-CS-SP	680-90852-24
HP0175B-CS-SP	680-90852-25
HP0175C-CS-SP	680-90852-26
CV1305A-CS	680-90852-27
CV1305B-CS	680-90852-28
FM0307A-CS	680-90852-29
FM0307B-CS	680-90852-30
FM0352A-CS	680-90852-31
FM0352A-CSD	680-90852-32
HP0072A-CS-SP	680-90852-33
HP0072B-CS-SP	680-90852-34
HP0125A-CS-SP	680-90852-35
HP0125B-CS-SP	680-90852-36
HP0193A-CS-SP	680-90852-37
HP0193B-CS-SP	680-90852-38
HP0299A-CS-SP	680-90852-39
HP0299B-CS-SP	680-90852-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90852-2

SDG Number: 68090852-2

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: 680-90852-2

SDG Number: 68090852-2

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: 680-90852-2

SDG Number: 68090852-2

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: 680-90852-2

SDG Number: 68090852-2

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.: 680-90852-2

SDG No.: 68090852-2

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																					
680-90852-32	1	T	07:41	X																				
ZZZZZZ			08:02																					
680-90852-37	1	T	08:04	X																				
ZZZZZZ			08:16																					
ZZZZZZ			08:21																					
ZZZZZZ			08:39																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-90852-2

SDG No.: 68090852-2

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																				
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ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
680-90852-A-9 MS	1	T	06:43	X																			
680-90852-A-9 MSD	1	T	06:43	X																			
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
680-90852-30	1	T	06:43	X																			
680-90852-29	1	T	06:43	X																			
680-90852-24	1	T	06:43	X																			
680-90852-28	1	T	06:43	X																			
680-90852-23	1	T	06:43	X																			
680-90852-36	1	T	06:43	X																			
680-90852-38	1	T	06:43	X																			
ZZZZZZ			06:43																				
680-90852-31	1	T	06:43	X																			
ZZZZZZ			06:43																				
680-90852-22	1	T	06:43	X																			
680-90852-22 MS	1	T	06:43	X																			
680-90852-22 MSD	1	T	06:43	X																			
680-90852-33	1	T	06:43	X																			
680-90852-25	1	T	06:43	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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																				
680-90852-34	1	T	06:43	X																				
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					
680-90852-26	1	T	06:43	X																				
680-90852-39	1	T	06:43	X																				
ZZZZZZ			06:43																					
680-90852-40	1	T	06:43	X																				
ZZZZZZ			06:43																					
680-90852-35	1	T	06:43	X																				
ZZZZZZ			06:43																					
680-90852-27	1	T	06:43	X																				
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					
ZZZZZZ			06:43																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-2

SDG No.: 68090852-2

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		
680-90852-A-9 MS		Moisture	T	23	0 g	4.36 g	4.00 g		
680-90852-A-9 MSD		Moisture	T	23	0 g	4.36 g	4.00 g		
680-90852-A-30	FM0307B-CS	Moisture	T	26	0 g	4.62 g	3.85 g		
680-90852-A-29	FM0307A-CS	Moisture	T	27	0 g	4.58 g	3.95 g		
680-90852-A-24	HP0175A-CS-SP	Moisture	T	28	0 g	4.45 g	3.75 g		
680-90852-A-28	CV1305B-CS	Moisture	T	29	0 g	4.35 g	3.74 g		
680-90852-A-23	FM0098D-CS-SP	Moisture	T	30	0 g	4.79 g	3.88 g		
680-90852-A-36	HP0125B-CS-SP	Moisture	T	31	0 g	4.52 g	3.69 g		
680-90852-A-38	HP0193B-CS-SP	Moisture	T	32	0 g	4.32 g	3.45 g		
680-90852-A-31	FM0352A-CS	Moisture	T	34	0 g	4.28 g	3.62 g		
680-90852-A-22	FM0098C-CS-SP	Moisture	T	36	0 g	4.64 g	3.80 g		
680-90852-A-22 MS	FM0098C-CS-SP	Moisture	T	36	0 g	4.64 g	3.80 g		
680-90852-A-22 MSD	FM0098C-CS-SP	Moisture	T	36	0 g	4.64 g	3.80 g		
680-90852-A-33	HP0072A-CS-SP	Moisture	T	37	0 g	4.26 g	3.26 g		
680-90852-A-25	HP0175B-CS-SP	Moisture	T	38	0 g	4.87 g	3.99 g		
680-90852-A-34	HP0072B-CS-SP	Moisture	T	39	0 g	4.89 g	3.78 g		
680-90852-A-26	HP0175C-CS-SP	Moisture	T	43	0 g	4.67 g	3.94 g		
680-90852-A-39	HP0299A-CS-SP	Moisture	T	44	0 g	4.94 g	3.57 g		
680-90852-A-40	HP0299B-CS-SP	Moisture	T	46	0 g	4.55 g	4.25 g		
680-90852-A-35	HP0125A-CS-SP	Moisture	T	48	0 g	4.90 g	4.07 g		
680-90852-A-27	CV1305A-CS	Moisture	T	50	0 g	4.59 g	3.85 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.: 680-90852-2

SDG No.: 68090852-2

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			
680-90852-A-37	HP0193A-CS-SP	Moisture	T	0 g	4.83 g	4.122 g			
680-90852-A-32	FM0352A-CSD	Moisture	T	0 g	4.344 g	3.864 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.

Shipping and Receiving Documents

Serial Number 64261

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 Removal	2005148-1356	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

…NT FAX

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ◯
DATE DUE ______

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE ______

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	4 PAH	RCRA 8 Metals	REMARKS
5-28-13	1454	FM 0349A-CS-SP	C		X			X		
	1507	FM0349B-CS-SP	C		X			X		
	1336	FM0322A-CS-SP (sieve)	C		X				X	
5-29-13	1030	CV0995A-CS	C		X			X	X	
5-29-13	0835	CV 1248 A-CS	C		X			X	X	
	0845	CV1248B-CS	C		X			X		
	0845	CV 1248B-CSD	C		X			X		
	0901	FM0098A-CS-SP	C		X			X		
	0912	FM0098B-CS-SP	C		X			X		
	0923	FM0098C-CS-SP	C		X			X		
	0937	FM0098D-CS-SP	C		X			X		
	1032	HP0175A-CS-SP	C		X			X		

680-90852-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-30-13	1000	[signature]	6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ◯ NO ◯		680-90852	

Serial Number 64262

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)	PAGE	OF
35th Ave Removal	200548-1356	AL	3	4
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.		
Lena Harven				

(b) (6)

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: LL PAH	Rcra 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-27-13	1048	HP0175B-CS-SP	C		X			X			X	
5-27-13	1100	HP0175C-CS-SP	C		X			X			X	
	1350	CV1305A-CS	C		X			X			X	
	1400	CV1305B-CS	C		X			X			X	
	1310	FM0307A-CS	C		X			X			X	
	1320	FM0307B-CS	C		X			X			X	
	1235	FM0352A-CS	C		X			X			X	
	1235	FM0352A-CSD	C		X			X			X	
	1253	HP0072A-CS-SP	C		X			X			X	
	1306	HP0072B-CS-SP	C		X			X			X	
	1339	HP0125A-CS-SP	C		X			X	X		X	
	1354	HP0125B-CS-SP	C		X			X			X	

680-90852-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Audrin	5-30-13	1000		6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McMullty	5/31/13	0853	YES ○ NO ○		680-90852	

TAL8240-680 (1008)

Serial Number 64263

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 Removal	200514S-1356	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 1

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	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 12 PAH	REQUIRED ANALYSIS: RCRA 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-29-13	1423	HP0193A-CS-SP	C		X			X				
	1434	HP0193B-CS-SP	C		X			X				
	1527	HP0299A-CS-SP	C		X			X				
	1535	HP0299B-CS-SP	C		X			X				
	1030	CV0995A-CS (sieve)	C		X				X			
	0835	CV1248A-CS (sieve)	C		X				X			
	1339	HP0125A-CS-SP (sieve)	C		X				X			

680-90852-04 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-30-13	1000	[signature]	6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90852	

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-2
SDG Number: 68090852-2

Login Number: 90852
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 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: 680-90852-2
SDG Number: 68090852-2

Login Number: 90852
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: 680-90852-2
TestAmerica Sample Delivery Group: 68090852-2
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:
6/12/2013 6:32:32 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: 680-90852-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90852-2

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 5.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0098C-CS-SP (680-90852-22), FM0098D-CS-SP (680-90852-23), HP0175A-CS-SP (680-90852-24), HP0175B-CS-SP (680-90852-25), HP0175C-CS-SP (680-90852-26), CV1305A-CS (680-90852-27), CV1305B-CS (680-90852-28), FM0307A-CS (680-90852-29), FM0307B-CS (680-90852-30), FM0352A-CS (680-90852-31), FM0352A-CSD (680-90852-32), HP0072A-CS-SP (680-90852-33), HP0072B-CS-SP (680-90852-34), HP0125A-CS-SP (680-90852-35), HP0125B-CS-SP (680-90852-36), HP0193A-CS-SP (680-90852 37), HP0193B CS SP (680-90852 38), HP0299A CS SP (680-90852 39) and HP0299B CS-SP (680-90852 40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/04/2013 and 06/06/2013 and analyzed on 06/07/2013 and 06/09/2013.

Samples HP0175A-CS-SP (680-90852-24)[4X], HP0175B-CS-SP (680-90852-25)[4X], CV1305B-CS (680-90852-28)[4X], FM0307A-CS (680-90852-29)[4X], FM0307B-CS (680-90852-30)[4X], FM0352A-CS (680-90852-31)[4X], FM0352A-CSD (680-90852-32)[4X], HP0125A-CS-SP (680-90852-35)[20X] and HP0125A-CS-SP (680-90852-35)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample FM0098C-CS-SPMS (680-90852-22) in batch 660-138216.

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: 680-90852-2
SDG: 68090852-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90852-22	FM0098C-CS-SP	Solid	05/29/13 09:23	05/31/13 08:53
680-90852-23	FM0098D-CS-SP	Solid	05/29/13 09:37	05/31/13 08:53
680-90852-24	HP0175A-CS-SP	Solid	05/29/13 10:32	05/31/13 08:53
680-90852-25	HP0175B-CS-SP	Solid	05/29/13 10:48	05/31/13 08:53
680-90852-26	HP0175C-CS-SP	Solid	05/29/13 11:00	05/31/13 08:53
680-90852-27	CV1305A-CS	Solid	05/29/13 13:50	05/31/13 08:53
680-90852-28	CV1305B-CS	Solid	05/29/13 14:00	05/31/13 08:53
680-90852-29	FM0307A-CS	Solid	05/29/13 13:10	05/31/13 08:53
680-90852-30	FM0307B-CS	Solid	05/29/13 13:20	05/31/13 08:53
680-90852-31	FM0352A-CS	Solid	05/29/13 12:35	05/31/13 08:53
680-90852-32	FM0352A-CSD	Solid	05/29/13 12:00	05/31/13 08:53
680-90852-33	HP0072A-CS-SP	Solid	05/29/13 12:53	05/31/13 08:53
680-90852-34	HP0072B-CS-SP	Solid	05/29/13 13:06	05/31/13 08:53
680-90852-35	HP0125A-CS-SP	Solid	05/29/13 13:39	05/31/13 08:53
680-90852-36	HP0125B-CS-SP	Solid	05/29/13 13:54	05/31/13 08:53
680-90852-37	HP0193A-CS-SP	Solid	05/29/13 14:23	05/31/13 08:53
680-90852-38	HP0193B-CS-SP	Solid	05/29/13 14:34	05/31/13 08:53
680-90852-39	HP0299A-CS-SP	Solid	05/29/13 15:27	05/31/13 08:53
680-90852-40	HP0299B-CS-SP	Solid	05/29/13 15:35	05/31/13 08:53

Method Summary

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds he control limits

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: 680-90852-2
SDG: 68090852-2

Client Sample ID: FM0098C-CS-SP

Lab Sample ID: 680-90852-22

Date Collected: 05/29/13 09:23
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.9

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	☼	06/04/13 06:47	06/09/13 15:20	1
Acenaphthylene	**47**	**J**	49	6.1	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Anthracene	**94**		10	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[a]anthracene	**150**		9.8	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[a]pyrene	**180**	**F**	13	6.3	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[b]fluoranthene	**430**		15	7.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[g,h,i]perylene	**110**		24	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Benzo[k]fluoranthene	**120**		9.8	4.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Chrysene	**230**		11	5.5	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Dibenz(a,h)anthracene	**46**		24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Fluoranthene	**170**		24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Fluorene	**13**	**J**	24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Indeno[1,2,3-cd]pyrene	**110**		24	8.7	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
1-Methylnaphthalene	**47**	**J**	49	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
2-Methylnaphthalene	**79**		49	8.7	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Naphthalene	**94**		49	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Phenanthrene	**120**		9.8	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1
Pyrene	**150**		24	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*06/04/13 06:47*	*06/09/13 15:20*	*1*

Client Sample ID: FM0098D-CS-SP

Lab Sample ID: 680-90852-23

Date Collected: 05/29/13 09:37
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.0

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	☼	06/04/13 06:47	06/09/13 16:27	1
Acenaphthylene	**26**	**J**	48	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Anthracene	**38**		10	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[a]anthracene	**110**		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[a]pyrene	**130**		13	6.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[b]fluoranthene	**270**		15	7.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[g,h,i]perylene	**79**		24	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Benzo[k]fluoranthene	**74**		9.6	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Chrysene	**180**		11	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Dibenz(a,h)anthracene	**34**		24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Fluoranthene	**160**		24	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Fluorene	**12**	**J**	24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Indeno[1,2,3-cd]pyrene	**87**		24	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
1-Methylnaphthalene	**110**		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
2-Methylnaphthalene	**180**		48	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Naphthalene	**170**		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Phenanthrene	**160**		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1
Pyrene	**130**		24	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*06/04/13 06:47*	*06/09/13 16:27*	*1*

Client Sample ID: HP0175A-CS-SP

Lab Sample ID: 680-90852-24

Date Collected: 05/29/13 10:32
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.3

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	☼	06/04/13 06:47	06/09/13 16:50	4
Acenaphthylene	**51**	**J**	180	23	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Anthracene	**110**		39	19	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[a]anthracene	**320**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[a]pyrene	**310**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[b]fluoranthene	**540**		56	28	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[g,h,i]perylene	**180**		92	20	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Benzo[k]fluoranthene	**190**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Chrysene	**350**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Dibenz(a,h)anthracene	**79**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Fluoranthene	**530**		92	18	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Fluorene	**21**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Indeno[1,2,3-cd]pyrene	**210**		92	33	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
1-Methylnaphthalene	**87**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
2-Methylnaphthalene	**130**	**J**	180	33	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Naphthalene	**120**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Phenanthrene	**330**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4
Pyrene	**410**		92	17	ug/Kg	☼	06/04/13 06:47	06/09/13 16:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*06/04/13 06:47*	*06/09/13 16:50*	*4*

Client Sample ID: HP0175B-CS-SP

Lab Sample ID: 680-90852-25

Date Collected: 05/29/13 10:48
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.9

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	☼	06/04/13 06:47	06/09/13 17:13	4
Acenaphthylene	**27**	**J**	190	24	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Anthracene	**70**		40	20	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[a]anthracene	**420**		38	18	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[a]pyrene	**590**		49	25	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[b]fluoranthene	**1200**		58	29	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[g,h,i]perylene	**410**		95	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Benzo[k]fluoranthene	**380**		38	17	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Chrysene	**640**		43	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Dibenz(a,h)anthracene	**170**		95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Fluoranthene	**540**		95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Fluorene	**25**	**J**	95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Indeno[1,2,3-cd]pyrene	**410**		95	34	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
1-Methylnaphthalene	**160**	**J**	190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
2-Methylnaphthalene	**220**		190	34	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Naphthalene	**240**		190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Phenanthrene	**440**		38	18	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4
Pyrene	**450**		95	18	ug/Kg	☼	06/04/13 06:47	06/09/13 17:13	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/04/13 06:47*	*06/09/13 17:13*	*4*

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

Client Sample ID: HP0175C-CS-SP

Lab Sample ID: 680-90852-26

Date Collected: 05/29/13 11:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.4

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	☼	06/04/13 06:47	06/09/13 17:35	1
Acenaphthylene	**27**	**J**	46	5.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Anthracene	**44**		9.7	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[a]anthracene	**150**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[a]pyrene	**180**		12	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[b]fluoranthene	**350**		14	7.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[g,h,i]perylene	**110**		23	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Benzo[k]fluoranthene	**95**		9.3	4.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Chrysene	**230**		10	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Dibenz(a,h)anthracene	**43**		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Fluoranthene	**260**		23	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Fluorene	**14**	**J**	23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Indeno[1,2,3-cd]pyrene	**110**		23	8.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
1-Methylnaphthalene	**95**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
2-Methylnaphthalene	**150**		46	8.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Naphthalene	**130**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Phenanthrene	**220**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1
Pyrene	**200**		23	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*06/04/13 06:47*	*06/09/13 17:35*	*1*

Client Sample ID: CV1305A-CS

Lab Sample ID: 680-90852-27

Date Collected: 05/29/13 13:50
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**63**	**J**	120	23	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Acenaphthylene	**77**		46	5.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Anthracene	**130**		9.8	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[a]anthracene	**480**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[a]pyrene	**560**		12	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[b]fluoranthene	**1000**		14	7.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[g,h,i]perylene	**270**		23	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Benzo[k]fluoranthene	**330**		9.3	4.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Chrysene	**590**		10	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Dibenz(a,h)anthracene	**100**		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Fluoranthene	**820**		23	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Fluorene	**47**		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Indeno[1,2,3-cd]pyrene	**270**		23	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
1-Methylnaphthalene	**100**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
2-Methylnaphthalene	**140**		46	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Naphthalene	**120**		46	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Phenanthrene	**550**		9.3	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1
Pyrene	**620**		23	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*06/04/13 06:47*	*06/09/13 17:58*	*1*

Client Sample ID: CV1305B-CS

Lab Sample ID: 680-90852-28

Date Collected: 05/29/13 14:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.0

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	93	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Acenaphthylene	**25**	**J**	190	23	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Anthracene	**57**		39	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[a]anthracene	**470**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[a]pyrene	**740**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[b]fluoranthene	**1400**		57	28	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[g,h,i]perylene	**450**		93	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Benzo[k]fluoranthene	**460**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Chrysene	**650**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Dibenz(a,h)anthracene	**180**		93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Fluoranthene	**510**		93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Fluorene	93	U	93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Indeno[1,2,3-cd]pyrene	**480**		93	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
1-Methylnaphthalene	**43**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
2-Methylnaphthalene	**69**	**J**	190	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Naphthalene	**85**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Phenanthrene	**240**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4
Pyrene	**440**		93	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:20	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*06/04/13 06:47*	*06/09/13 18:20*	*4*

Client Sample ID: FM0307A-CS

Lab Sample ID: 680-90852-29

Date Collected: 05/29/13 13:10
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 86.2

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	93	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Acenaphthylene	**26**	**J**	190	23	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Anthracene	**32**	**J**	39	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[a]anthracene	**120**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[a]pyrene	**140**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[b]fluoranthene	**190**		57	28	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[g,h,i]perylene	**60**	**J**	93	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Benzo[k]fluoranthene	**60**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Chrysene	**170**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Dibenz(a,h)anthracene	**41**	**J**	93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Fluoranthene	**170**		93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Fluorene	93	U	93	19	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Indeno[1,2,3-cd]pyrene	**94**		93	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
1-Methylnaphthalene	**110**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
2-Methylnaphthalene	**120**	**J**	190	33	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Naphthalene	**82**	**J**	190	20	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Phenanthrene	**170**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4
Pyrene	**150**		93	17	ug/Kg	☼	06/04/13 06:47	06/09/13 18:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*06/04/13 06:47*	*06/09/13 18:43*	*4*

Client Sample ID: FM0307B-CS

Lab Sample ID: 680-90852-30

Date Collected: 05/29/13 13:20
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Acenaphthylene	**25**	**J**	190	24	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Anthracene	**59**		40	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[a]anthracene	**420**		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[a]pyrene	**410**		50	25	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[b]fluoranthene	**720**		58	29	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[g,h,i]perylene	**140**		95	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Benzo[k]fluoranthene	**260**		38	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Chrysene	**460**		43	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Dibenz(a,h)anthracene	**70**	**J**	95	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Fluoranthene	**530**		95	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Fluorene	**23**	**J**	95	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Indeno[1,2,3-cd]pyrene	**190**		95	34	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
1-Methylnaphthalene	**71**	**J**	190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
2-Methylnaphthalene	**92**	**J**	190	34	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Naphthalene	**71**	**J**	190	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Phenanthrene	**280**		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4
Pyrene	**420**		95	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*06/04/13 06:47*	*06/09/13 19:05*	*4*

Client Sample ID: FM0352A-CS

Lab Sample ID: 680-90852-31

Date Collected: 05/29/13 12:35
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.6

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	☼	06/04/13 06:47	06/09/13 19:28	4
Acenaphthylene	**130**	**J**	180	23	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Anthracene	**150**		39	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[a]anthracene	**380**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[a]pyrene	**420**		48	24	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[b]fluoranthene	**790**		56	28	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[g,h,i]perylene	**210**		92	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Benzo[k]fluoranthene	**300**		37	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Chrysene	**440**		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Dibenz(a,h)anthracene	**91**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Fluoranthene	**590**		92	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Fluorene	**24**	**J**	92	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Indeno[1,2,3-cd]pyrene	**250**		92	33	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
1-Methylnaphthalene	**140**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
2-Methylnaphthalene	**250**		180	33	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Naphthalene	**210**		180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Phenanthrene	**350**		37	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4
Pyrene	**480**		92	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*06/04/13 06:47*	*06/09/13 19:28*	*4*

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

Client Sample ID: FM0352A-CSD

Lab Sample ID: 680-90852-32

Date Collected: 05/29/13 12:00
Date Received: 05/31/13 08:53

Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Acenaphthylene	**120**	**J**	180	22	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Anthracene	**140**		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[a]anthracene	**370**		36	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[a]pyrene	**420**		47	23	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[b]fluoranthene	**800**		55	27	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[g,h,i]perylene	**210**		90	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Benzo[k]fluoranthene	**260**		36	16	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Chrysene	**450**		40	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Dibenz(a,h)anthracene	**84**	**J**	90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Fluoranthene	**640**		90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Fluorene	**19**	**J**	90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Indeno[1,2,3-cd]pyrene	**260**		90	32	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
1-Methylnaphthalene	**84**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
2-Methylnaphthalene	**160**	**J**	180	32	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Naphthalene	**150**	**J**	180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Phenanthrene	**320**		36	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4
Pyrene	**520**		90	17	ug/Kg	☼	06/04/13 06:47	06/09/13 19:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*06/04/13 06:47*	*06/09/13 19:50*	*4*

Client Sample ID: HP0072A-CS-SP

Lab Sample ID: 680-90852-33

Date Collected: 05/29/13 12:53
Date Received: 05/31/13 08:53

Matrix: Solid
Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Acenaphthylene	**12**	**J**	52	6.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Anthracene	**18**		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[a]anthracene	**49**		10	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[a]pyrene	**57**		13	6.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[b]fluoranthene	**91**		16	7.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[g,h,i]perylene	**53**		26	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Benzo[k]fluoranthene	**33**		10	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Chrysene	**72**		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Dibenz(a,h)anthracene	**17**	**J**	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Fluoranthene	**75**		26	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Fluorene	26	U	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Indeno[1,2,3-cd]pyrene	**49**		26	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
1-Methylnaphthalene	**28**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
2-Methylnaphthalene	**44**	**J**	52	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Naphthalene	**36**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Phenanthrene	**64**		10	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1
Pyrene	**70**		26	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:48*	*1*

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

Client Sample ID: HP0072B-CS-SP

Lab Sample ID: 680-90852-34

Date Collected: 05/29/13 13:06
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Acenaphthylene	**8.1**	**J**	52	6.5	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Anthracene	**13**		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[a]anthracene	**40**		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[a]pyrene	**53**		13	6.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[b]fluoranthene	**82**		16	7.9	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[g,h,i]perylene	**40**		26	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Benzo[k]fluoranthene	**24**		10	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Chrysene	**61**		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Dibenz(a,h)anthracene	**17**	**J**	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Fluoranthene	**63**		26	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Fluorene	26	U	26	5.3	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Indeno[1,2,3-cd]pyrene	**45**		26	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
1-Methylnaphthalene	**39**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
2-Methylnaphthalene	**65**		52	9.2	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Naphthalene	**41**	**J**	52	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Phenanthrene	**62**		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1
Pyrene	**53**		26	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:10*	*1*

Client Sample ID: HP0125A-CS-SP

Lab Sample ID: 680-90852-35

Date Collected: 05/29/13 13:39
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2400**		480	97	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Acenaphthylene	**2400**		190	24	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Anthracene	**6300**		41	20	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[a]anthracene	**11000**		39	19	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[a]pyrene	**9500**		50	25	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[b]fluoranthene	**14000**		59	29	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[g,h,i]perylene	**5800**		97	21	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Benzo[k]fluoranthene	**5500**		39	17	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Chrysene	**11000**		44	22	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Dibenz(a,h)anthracene	**1600**		97	20	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Fluorene	**3500**		97	20	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Indeno[1,2,3-cd]pyrene	**5500**		97	34	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
1-Methylnaphthalene	**1700**		190	21	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
2-Methylnaphthalene	**1500**		190	34	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4
Naphthalene	**1700**		190	21	ug/Kg	☼	06/06/13 14:10	06/07/13 22:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*06/06/13 14:10*	*06/07/13 22:33*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**24000**		480	97	ug/Kg	☼	06/06/13 14:10	06/09/13 11:34	20

Client Sample ID: HP0125A-CS-SP

Lab Sample ID: 680-90852-35

Date Collected: 05/29/13 13:39
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	27000		190	94	ug/Kg	☼	06/06/13 14:10	06/09/13 11:34	20
Pyrene	19000		480	89	ug/Kg	☼	06/06/13 14:10	06/09/13 11:34	20

Client Sample ID: HP0125B-CS-SP

Lab Sample ID: 680-90852-36

Date Collected: 05/29/13 13:54
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.6

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	☼	06/06/13 14:10	06/07/13 20:29	1
Acenaphthylene	8.8	J	49	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Anthracene	23		10	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[a]anthracene	99		9.7	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[a]pyrene	100		13	6.3	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[b]fluoranthene	210		15	7.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[g,h,i]perylene	93		24	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Benzo[k]fluoranthene	50		9.7	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Chrysene	130		11	5 5	ug/Kg	☼	06/06/13 14 10	06/07/13 20 29	1
Dibenz(a,h)anthracene	28		24	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Fluoranthene	210		24	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Fluorene	11	J	24	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Indeno[1,2,3-cd]pyrene	72		24	8.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
1-Methylnaphthalene	33	J	49	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
2-Methylnaphthalene	33	J	49	8.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Naphthalene	49		49	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Phenanthrene	130		9.7	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1
Pyrene	160		24	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*06/06/13 14:10*	*06/07/13 20:29*	*1*

Client Sample ID: HP0193A-CS-SP

Lab Sample ID: 680-90852-37

Date Collected: 05/29/13 14:23
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	☼	06/06/13 14:10	06/07/13 20:47	1
Acenaphthylene	6.8	J	46	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Anthracene	11		9.7	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[a]anthracene	59		9.2	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[a]pyrene	53		12	6.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[b]fluoranthene	96		14	7.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[g,h,i]perylene	53		23	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Benzo[k]fluoranthene	30		9.2	4.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Chrysene	81		10	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Dibenz(a,h)anthracene	15	J	23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Fluoranthene	87		23	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Fluorene	8.6	J	23	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Indeno[1,2,3-cd]pyrene	50		23	8.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1

Client Sample ID: HP0193A-CS-SP

Lab Sample ID: 680-90852-37

Date Collected: 05/29/13 14:23
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	54		46	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
2-Methylnaphthalene	75		46	8.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Naphthalene	50		46	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Phenanthrene	90		9.2	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1
Pyrene	71		23	4.3	ug/Kg	☼	06/06/13 14:10	06/07/13 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*06/06/13 14:10*	*06/07/13 20:47*	*1*

Client Sample ID: HP0193B-CS-SP

Lab Sample ID: 680-90852-38

Date Collected: 05/29/13 14:34
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 79.9

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	25	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Acenaphthylene	51		50	6.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Anthracene	35		10	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[a]anthracene	160		10	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[a]pyrene	180		13	6.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[b]fluoranthene	340		15	7.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[g,h,i]perylene	150		25	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Benzo[k]fluoranthene	100		10	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Chrysene	200		11	5.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Dibenz(a,h)anthracene	44		25	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Fluoranthene	260		25	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Fluorene	15	J	25	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Indeno[1,2,3-cd]pyrene	140		25	8.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
1-Methylnaphthalene	71		50	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
2-Methylnaphthalene	110		50	8.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Naphthalene	150		50	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Phenanthrene	160		10	4.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1
Pyrene	220		25	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:06*	*1*

Client Sample ID: HP0299A-CS-SP

Lab Sample ID: 680-90852-39

Date Collected: 05/29/13 15:27
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	140	28	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Acenaphthylene	19	J	55	6.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Anthracene	140		12	5.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[a]anthracene	360		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[a]pyrene	350		14	7.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[b]fluoranthene	620		17	8.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Benzo[g,h,i]perylene	260		28	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

Client Sample ID: HP0299A-CS-SP

Lab Sample ID: 680-90852-39
Date Collected: 05/29/13 15:27
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	180		11	5.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Chrysene	380		12	6.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Dibenz(a,h)anthracene	59		28	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Fluoranthene	770		28	5.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Fluorene	87		28	5.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Indeno[1,2,3-cd]pyrene	200		28	9.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
1-Methylnaphthalene	140		55	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
2-Methylnaphthalene	190		55	9.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Naphthalene	210		55	6.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Phenanthrene	630		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1
Pyrene	600		28	5.1	ug/Kg	☼	06/06/13 14:10	06/07/13 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:24*	*1*

Client Sample ID: HP0299B-CS-SP

Lab Sample ID: 680-90852-40
Date Collected: 05/29/13 15:35
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 93.4

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	21	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Acenaphthylene	6.1	J	43	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Anthracene	13		9.0	4.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[a]anthracene	60		8.6	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[a]pyrene	75		11	5.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[b]fluoranthene	120		13	6.5	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[g,h,i]perylene	65		21	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Benzo[k]fluoranthene	32		8.6	3.9	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Chrysene	73		9.6	4.8	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Dibenz(a,h)anthracene	17	J	21	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Fluoranthene	99		21	4.3	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Fluorene	21	U	21	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Indeno[1,2,3-cd]pyrene	52		21	7.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
1-Methylnaphthalene	40	J	43	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
2-Methylnaphthalene	100		43	7.6	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Naphthalene	62		43	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Phenanthrene	71		8.6	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1
Pyrene	83		21	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*06/06/13 14:10*	*06/07/13 21:42*	*1*

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

Lab Sample ID: MB 660-138015/1-A
Matrix: Solid
Analysis Batch: 138216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Fluorene	20	U	20	4.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Naphthalene	40	U	40	4.4	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		06/04/13 06:47	06/09/13 10:49	1
Pyrene	20	U	20	3.7	ug/Kg		06/04/13 06:47	06/09/13 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*06/04/13 06:47*	*06/09/13 10:49*	*1*

Lab Sample ID: LCS 660-138015/2-A
Matrix: Solid
Analysis Batch: 138216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	665	548		ug/Kg		82	39 - 130
Acenaphthylene	665	587		ug/Kg		88	38 - 130
Anthracene	665	583		ug/Kg		88	37 - 130
Benzo[a]anthracene	665	504		ug/Kg		76	40 - 130
Benzo[a]pyrene	665	511		ug/Kg		77	49 - 130
Benzo[b]fluoranthene	665	567		ug/Kg		85	37 - 130
Benzo[g,h,i]perylene	665	577		ug/Kg		87	32 - 130
Benzo[k]fluoranthene	665	556		ug/Kg		84	32 - 130
Chrysene	665	511		ug/Kg		77	41 - 130
Dibenz(a,h)an hracene	665	557		ug/Kg		84	27 - 130
Fluoranthene	665	578		ug/Kg		87	40 - 130
Fluorene	665	593		ug/Kg		89	40 - 130
Indeno[1,2,3-cd]pyrene	665	532		ug/Kg		80	30 - 130
1-Methylnaphthalene	665	537		ug/Kg		81	31 - 130
2-Methylnaphthalene	665	586		ug/Kg		88	33 - 130
Naphthalene	665	552		ug/Kg		83	36 - 130
Phenanthrene	665	560		ug/Kg		84	42 - 130
Pyrene	665	520		ug/Kg		78	44 - 130

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

Lab Sample ID: LCS 660-138015/2-A
Matrix: Solid
Analysis Batch: 138216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138015

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	82		30 - 130

Lab Sample ID: 680-90852-22 MS
Matrix: Solid
Analysis Batch: 138216

Client Sample ID: FM0098C-CS-SP
Prep Type: Total/NA
Prep Batch: 138015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	U	813	461		ug/Kg	☼	57	39 - 130
Acenaphthylene	47	J	813	537		ug/Kg	☼	60	38 - 130
Anthracene	94		813	560		ug/Kg	☼	57	37 - 130
Benzo[a]anthracene	150		813	568		ug/Kg	☼	52	40 - 130
Benzo[a]pyrene	180	F	813	557	F	ug/Kg	☼	47	49 - 130
Benzo[b]fluoranthene	430		813	857		ug/Kg	☼	53	37 - 130
Benzo[g,h,i]perylene	110		813	394		ug/Kg	☼	35	32 - 130
Benzo[k]fluoranthene	120		813	594		ug/Kg	☼	59	32 - 130
Chrysene	230		813	605		ug/Kg	☼	47	41 - 130
Dibenz(a,h)an hracene	46		813	396		ug/Kg	☼	43	27 - 130
Fluoranthene	170		813	607		ug/Kg	☼	54	40 - 130
Fluorene	13	J	813	503		ug/Kg	☼	60	40 - 130
Indeno[1,2,3-cd]pyrene	110		813	404		ug/Kg	☼	36	30 - 130
1-Methylnaphthalene	47	J	813	486		ug/Kg	☼	54	31 - 130
2-Methylnaphthalene	79		813	549		ug/Kg	☼	58	33 - 130
Naphthalene	94		813	542		ug/Kg	☼	55	36 - 130
Phenanthrene	120		813	575		ug/Kg	☼	56	42 - 130
Pyrene	150		813	536		ug/Kg	☼	47	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	52		30 - 130

Lab Sample ID: 680-90852-22 MSD
Matrix: Solid
Analysis Batch: 138216

Client Sample ID: FM0098C-CS-SP
Prep Type: Total/NA
Prep Batch: 138015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	120	U	813	542		ug/Kg	☼	67	39 - 130	16	40
Acenaphthylene	47	J	813	629		ug/Kg	☼	72	38 - 130	16	40
Anthracene	94		813	645		ug/Kg	☼	68	37 - 130	14	40
Benzo[a]anthracene	150		813	660		ug/Kg	☼	63	40 - 130	15	40
Benzo[a]pyrene	180	F	813	665		ug/Kg	☼	60	49 - 130	18	40
Benzo[b]fluoranthene	430		813	1040		ug/Kg	☼	76	37 - 130	20	40
Benzo[g,h,i]perylene	110		813	475		ug/Kg	☼	45	32 - 130	19	40
Benzo[k]fluoranthene	120		813	705		ug/Kg	☼	72	32 - 130	17	40
Chrysene	230		813	708		ug/Kg	☼	59	41 - 130	16	40
Dibenz(a,h)an hracene	46		813	468		ug/Kg	☼	52	27 - 130	17	40
Fluoranthene	170		813	699		ug/Kg	☼	65	40 - 130	14	40
Fluorene	13	J	813	590		ug/Kg	☼	71	40 - 130	16	40
Indeno[1,2,3-cd]pyrene	110		813	488		ug/Kg	☼	46	30 - 130	19	40
1-Methylnaphthalene	47	J	813	594		ug/Kg	☼	67	31 - 130	20	40

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

Lab Sample ID: 680-90852-22 MSD
Matrix: Solid
Analysis Batch: 138216

Client Sample ID: FM0098C-CS-SP
Prep Type: Total/NA
Prep Batch: 138015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	79		813	678		ug/Kg	☼	74	33 - 130	21	40
Naphthalene	94		813	656		ug/Kg	☼	69	36 - 130	19	40
Phenanthrene	120		813	649		ug/Kg	☼	65	42 - 130	12	40
Pyrene	150		813	636		ug/Kg	☼	59	44 - 130	17	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*61*		*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*

GC/MS Semi VOA

Prep Batch: 138015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-22	FM0098C-CS-SP	Total/NA	Solid	3546	
680-90852-22 MS	FM0098C-CS-SP	Total/NA	Solid	3546	
680-90852-22 MSD	FM0098C-CS-SP	Total/NA	Solid	3546	
680-90852-23	FM0098D-CS-SP	Total/NA	Solid	3546	
680-90852-24	HP0175A-CS-SP	Total/NA	Solid	3546	
680-90852-25	HP0175B-CS-SP	Total/NA	Solid	3546	
680-90852-26	HP0175C-CS-SP	Total/NA	Solid	3546	
680-90852-27	CV1305A-CS	Total/NA	Solid	3546	
680-90852-28	CV1305B-CS	Total/NA	Solid	3546	
680-90852-29	FM0307A-CS	Total/NA	Solid	3546	
680-90852-30	FM0307B-CS	Total/NA	Solid	3546	
680-90852-31	FM0352A-CS	Total/NA	Solid	3546	
680-90852-32	FM0352A-CSD	Total/NA	Solid	3546	
LCS 660-138015/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138015/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 138156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-33	HP0072A-CS-SP	Total/NA	Solid	3546	
680-90852-34	HP0072B-CS-SP	Total/NA	Solid	3546	
680-90852-35	HP0125A-CS-SP	Total/NA	Solid	3546	
680-90852-35 - DL	HP0125A-CS-SP	Total/NA	Solid	3546	
680-90852-36	HP0125B-CS-SP	Total/NA	Solid	3546	
680-90852-37	HP0193A-CS-SP	Total/NA	Solid	3546	
680-90852-38	HP0193B-CS-SP	Total/NA	Solid	3546	
680-90852-39	HP0299A-CS-SP	Total/NA	Solid	3546	
680-90852-40	HP0299B-CS-SP	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	

Analysis Batch: 138203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-36	HP0125B-CS-SP	Total/NA	Solid	8270C LL	138156
680-90852-37	HP0193A-CS-SP	Total/NA	Solid	8270C LL	138156
680-90852-38	HP0193B-CS-SP	Total/NA	Solid	8270C LL	138156
680-90852-39	HP0299A-CS-SP	Total/NA	Solid	8270C LL	138156
680-90852-40	HP0299B-CS-SP	Total/NA	Solid	8270C LL	138156

Analysis Batch: 138205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-33	HP0072A-CS-SP	Total/NA	Solid	8270C LL	138156
680-90852-34	HP0072B-CS-SP	Total/NA	Solid	8270C LL	138156
680-90852-35	HP0125A-CS-SP	Total/NA	Solid	8270C LL	138156
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

Analysis Batch: 138216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-22	FM0098C-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-22 MS	FM0098C-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-22 MSD	FM0098C-CS-SP	Total/NA	Solid	8270C LL	138015

GC/MS Semi VOA (Continued)

Analysis Batch: 138216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-23	FM0098D-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-24	HP0175A-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-25	HP0175B-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-26	HP0175C-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-27	CV1305A-CS	Total/NA	Solid	8270C LL	138015
680-90852-28	CV1305B-CS	Total/NA	Solid	8270C LL	138015
680-90852-29	FM0307A-CS	Total/NA	Solid	8270C LL	138015
680-90852-30	FM0307B-CS	Total/NA	Solid	8270C LL	138015
680-90852-31	FM0352A-CS	Total/NA	Solid	8270C LL	138015
680-90852-32	FM0352A-CSD	Total/NA	Solid	8270C LL	138015
680-90852-35 - DL	HP0125A-CS-SP	Total/NA	Solid	8270C LL	138156
LCS 660-138015/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138015
MB 660-138015/1-A	Method Blank	Total/NA	Solid	8270C LL	138015

General Chemistry

Analysis Batch: 137974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-22	FM0098C-CS-SP	Total/NA	Solid	Moisture	
680-90852-22 MS	FM0098C-CS-SP	Total/NA	Solid	Moisture	
680-90852-22 MSD	FM0098C-CS-SP	Total/NA	Solid	Moisture	
680-90852-23	FM0098D-CS-SP	Total/NA	Solid	Moisture	
680-90852-24	HP0175A-CS-SP	Total/NA	Solid	Moisture	
680-90852-25	HP0175B-CS-SP	Total/NA	Solid	Moisture	
680-90852-26	HP0175C-CS-SP	Total/NA	Solid	Moisture	
680-90852-27	CV1305A-CS	Total/NA	Solid	Moisture	
680-90852-28	CV1305B-CS	Total/NA	Solid	Moisture	
680-90852-29	FM0307A-CS	Total/NA	Solid	Moisture	
680-90852-30	FM0307B-CS	Total/NA	Solid	Moisture	
680-90852-31	FM0352A-CS	Total/NA	Solid	Moisture	
680-90852-33	HP0072A-CS-SP	Total/NA	Solid	Moisture	
680-90852-34	HP0072B-CS-SP	Total/NA	Solid	Moisture	
680-90852-35	HP0125A-CS-SP	Total/NA	Solid	Moisture	
680-90852-36	HP0125B-CS-SP	Total/NA	Solid	Moisture	
680-90852-38	HP0193B-CS-SP	Total/NA	Solid	Moisture	
680-90852-39	HP0299A-CS-SP	Total/NA	Solid	Moisture	
680-90852-40	HP0299B-CS-SP	Total/NA	Solid	Moisture	

Analysis Batch: 137982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-32	FM0352A-CSD	Total/NA	Solid	Moisture	
680-90852-37	HP0193A-CS-SP	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	

Client Sample ID: FM0098C-CS-SP

Lab Sample ID: 680-90852-22
Date Collected: 05/29/13 09:23
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 15:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: FM0098D-CS-SP

Lab Sample ID: 680-90852-23
Date Collected: 05/29/13 09:37
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 16:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0175A-CS-SP

Lab Sample ID: 680-90852-24
Date Collected: 05/29/13 10:32
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 16:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0175B-CS-SP

Lab Sample ID: 680-90852-25
Date Collected: 05/29/13 10:48
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 17:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0175C-CS-SP

Lab Sample ID: 680-90852-26
Date Collected: 05/29/13 11:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 17:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: CV1305A-CS — **Lab Sample ID: 680-90852-27**
Date Collected: 05/29/13 13:50 — **Matrix: Solid**
Date Received: 05/31/13 08:53 — **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 17:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: CV1305B-CS — **Lab Sample ID: 680-90852-28**
Date Collected: 05/29/13 14:00 — **Matrix: Solid**
Date Received: 05/31/13 08:53 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 18:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: FM0307A-CS — **Lab Sample ID: 680-90852-29**
Date Collected: 05/29/13 13:10 — **Matrix: Solid**
Date Received: 05/31/13 08:53 — **Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 18:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: FM0307B-CS — **Lab Sample ID: 680-90852-30**
Date Collected: 05/29/13 13:20 — **Matrix: Solid**
Date Received: 05/31/13 08:53 — **Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 19:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: FM0352A-CS — **Lab Sample ID: 680-90852-31**
Date Collected: 05/29/13 12:35 — **Matrix: Solid**
Date Received: 05/31/13 08:53 — **Percent Solids: 84.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 19:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: FM0352A-CSD

Lab Sample ID: 680-90852-32

Date Collected: 05/29/13 12:00
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 19:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 07:41	AG	TAL TAM

Client Sample ID: HP0072A-CS-SP

Lab Sample ID: 680-90852-33

Date Collected: 05/29/13 12:53
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 76.5

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	138205	06/07/13 21:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0072B-CS-SP

Lab Sample ID: 680-90852-34

Date Collected: 05/29/13 13:06
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 77.3

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	138205	06/07/13 22:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0125A-CS-SP

Lab Sample ID: 680-90852-35

Date Collected: 05/29/13 13:39
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 83.1

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		4	138205	06/07/13 22:33	SCC	TAL TAM
Total/NA	Prep	3546	DL		138156	06/06/13 14:10	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	138216	06/09/13 11:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0125B-CS-SP

Lab Sample ID: 680-90852-36

Date Collected: 05/29/13 13:54
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 81.6

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 20:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90852-2
SDG: 68090852-2

Client Sample ID: HP0193A-CS-SP

Lab Sample ID: 680-90852-37
Date Collected: 05/29/13 14:23
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			138156	06/06/13 14:10	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	138203	06/07/13 20:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 08:04	AG	TAL TAM

Client Sample ID: HP0193B-CS-SP

Lab Sample ID: 680-90852-38
Date Collected: 05/29/13 14:34
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 79.9

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 21:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0299A-CS-SP

Lab Sample ID: 680-90852-39
Date Collected: 05/29/13 15:27
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 72.3

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 21:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: HP0299B-CS-SP

Lab Sample ID: 680-90852-40
Date Collected: 05/29/13 15:35
Matrix: Solid
Date Received: 05/31/13 08:53
Percent Solids: 93.4

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 21:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Laboratory References:

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

Serial Number 64261

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)	PAGE	OF
35th Ave Removal	2005148-1356	AL	2	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

IT FAX

COMPANY CONTRACTING THIS WORK (if applicable)

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

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

REQUIRED ANALYSIS: 4 PAH; RCRA 8 Metals

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	4 PAH	RCRA 8 Metals	REMARKS
5-28-13	1454	FM 0349A-CS-SP	C		X			X		
	1507	FM0349B-CS-SP	C		X			X		
	1336	FM0322A-CS-SP (sieve)	C		X				X	
5-29-13	1030	CV0995A-CS	C		X			X	X	
5-29-13	0835	CV 1248A-CS	C		X			X	X	
	0845	CV 1248B-CS	C		X			X		
	0845	CV 1248B-CSD	C		X			X		
	0901	FM0098A-CS-SP	C		X			X		
	0912	FM0098B-CS-SP	C		X			X		
	0923	FM0098C-CS-SP	C		X			X		
	0937	FM0098D-CS-SP	C		X			X		
	1032	HP0175A-CS-SP	C		X			X		

680-90852-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-30-13	1000	[signature]	6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90852	

Serial Number 64262

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)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE	OF
35th Ave Removal	20051148-1356	AL			3	4
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.				

(b) (6)

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

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (yes or no)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	24 PAH	2004 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-27-13	1048	HP0175B-CS-SP	C		X			X		X	
5-27-13	1100	HP0175C-CS-SP	C		X			X		X	
	1350	CV1305A-CS	C		X			X		X	
	1400	CV1305B-CS	C		X			X		X	
	1310	FM0307A-CS	C		X			X		X	
	1320	FM0307B-CS	C		X			X		X	
	1235	FM0352A-CS	C		X			X		X	
	1235	FM0352A-CSD	C		X			X		X	
	1253	HP0072A-CS-SP	C		X			X		X	
	1306	HP0072B-CS-SP	C		X			X		X	
	1339	HP0125A-CS-SP	C		X			X	X	X	
	1354	HP0125B-CS-SP	C		X			X		X	

680-90852-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-30-13	1000	[signature]	6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90852	

TAL8240-680 (1008)

Serial Number 64263

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 Removal	20051198-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 4 OF 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	REQUIRED ANALYSIS: Rush 5 Weeks	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-29-B	1423	HP0193A-CS-SP	C		X			X			
	1434	HP0193B-CS-SP	C		X			X			
	1527	HP0299A-CS-SP	C		X			X			
	1535	HP0299B-CS-SP	C		X			X			
	1030	CV0995A-CS (sieve)	C		X				X		
	0835	CV1248A-CS (sieve)	C		X				X		
	1339	HP0125A-CS-SP (sieve)	C		X				X		

PRESERVATIVE

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

680-90852-04 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-30-13	1000		6-3-13	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Carol McNulty	5/31/13	0853	YES ○ NO ○		680-90852	

TAL8240-680 (1008)

Page 28 of 32

6/12/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-2
SDG Number: 68090852-2

Login Number: 90852
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: 680-90852-2
SDG Number: 68090852-2

Login Number: 90852
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: 680-90852-2
SDG: 68090852-2

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: 680-90852-2
SDG: 68090852-2

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