REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-90686-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	05/22/2013
Reviewer:	Karen Marie Trujillo, URS Group, Inc.	Date:	06/24/2013
Concurrence[2]:	Jenine Abbassi/Martha Meyers-Lee, URS Group, Inc.	Date:	06/24/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			• MB 660-137975/1-A: Phenanthrene @ 6.92 µg/Kg (RL 8.0, MDL 3.9) • MB 660-138078/1-A: o Phenanthrene @ 5.02 µg/Kg (RL 8.0, MDL 3.9) o Pyrene @ 4.02 µg/Kg (RL 20, MDL 3.7)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 680-90622-15 (052113-RB-Shovel).	

[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. A rinsate blank, 680-90622-15 (052113-RB-Shovel) was collected during the week of 5/20/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-90622-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			Blank Contamination Action Levels (BCALs)[3]: • Phenanthrene: 34.6 µg/Kg (6.92 µg/Kg x 5) • Pyrene: 20.1 µg/Kg (4.02 µg/Kg x 5) Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount found in the sample.	U
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
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: BSMC5973 • Initial Calibration: 05/22/2013 • ICV: 05/22/13 @ 18:24 • CCV: 06/04/13 @ 10:50 • CCV: 06/05/13 @ 11:24 • Instrument ID: BSMD5973 • Initial Calibration: 05/23/2013 • ICV: 05/23/13 @ 15:41 • CCV: 06/03/13 @ 10:59 • CCV: 06/05/13 @ 11:54	

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds	✓				
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 137947: 680-90686-22 (CV0996A-CS), MS/MSD • Prep Batch 137975: 680-90723-1 (Batch sample), MS/MSD. Lab sample 680-90723-1 is a project-specific sample (CV1075A-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90723-1. • Prep Batch 138078: 660-54591-3 (Batch Sample), MS/MSD.	
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.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated 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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment B** (Case Narrative)	
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment C**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

J The 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: 680-90686-2
SDG: 68090686-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90686-21	CV0990D-CS	Solid	05/22/13 13:10	05/24/13 08:40
680-90686-22	CV0996A-CS	Solid	05/22/13 14:25	05/24/13 08:40
680-90686-23	CV1002A-CS	Solid	05/22/13 14:55	05/24/13 08:40
680-90686-24	CV1002B-CS	Solid	05/22/13 15:05	05/24/13 08:40
680-90686-25	CV1081A-CS	Solid	05/22/13 13:50	05/24/13 08:40
680-90686-26	CV1084A-CS	Solid	05/22/13 14:05	05/24/13 08:40
680-90686-27	CV0950A-CS-SP	Solid	05/22/13 13:07	05/24/13 08:40
680-90686-28	CV0950B-CS-SP	Solid	05/22/13 13:22	05/24/13 08:40
680-90686-29	CV1271A-CS-SP	Solid	05/22/13 15:09	05/24/13 08:40
680-90686-30	FM0028A-CS-SP	Solid	05/22/13 14:07	05/24/13 08:40
680-90686-31	FM0028B-CS-SP	Solid	05/22/13 14:21	05/24/13 08:40

ATTACHMENT B

CASE NARRATIVE

Job ID: 680-90686-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90686-2

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 05/24/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0990D-CS (680-90686-21), CV0996A-CS (680-90686-22), CV1002A-CS (680-90686-23), CV1002B-CS (680-90686-24), CV1081A-CS (680-90686-25), CV1084A-CS (680-90686-26), CV0950A-CS-SP (680-90686-27), CV0950B-CS-SP (680-90686-28), CV1271A-CS-SP (680-90686-29), FM0028A-CS-SP (680-90686-30) and FM0028B-CS-SP (680-90686-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/31/2013, 06/03/2013 and 06/05/2013 and analyzed on 06/04/2013 and 06/05/2013

Samples CV0990D-CS (680-90686-21)[4X], CV0996A-CS (680-90686-22)[4X], CV1002A-CS (680-90686-23)[4X], CV1002B-CS (680-90686-24)[4X], CV1081A-CS (680-90686-25)[4X], CV1084A-CS (680-90686-26)[4X] and CV0950A-CS-SP (680-90686-27)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-137975/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Phenanthrene and Pyrene were detected in method blank MB 660-138078/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0990D-CS

Lab Sample ID: 680-90686-21

Date Collected: 05/22/13 13:10
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 72.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Acenaphthylene	**34**	**J**	220	27	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Anthracene	**120**		46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[a]anthracene	**490**		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[a]pyrene	**460**		56	28	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[b]fluoranthene	**780**		66	33	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[g,h,i]perylene	**410**		110	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[k]fluoranthene	**230**		43	20	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Chrysene	**710**		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Dibenz(a,h)anthracene	**130**		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Fluoranthene	**990**		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Fluorene	**55**	**J**	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Indeno[1,2,3-cd]pyrene	**360**		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
1-Methylnaphthalene	**190**	**J**	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
2-Methylnaphthalene	**270**		220	38	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Naphthalene	**150**	**J**	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Phenanthrene	**790**		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Pyrene	**860**		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*05/31/13 10:03*	*06/05/13 12:39*	*4*

Client Sample ID: CV0996A-CS

Lab Sample ID: 680-90686-22

Date Collected: 05/22/13 14:25
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Acenaphthylene	**50**	**J**	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Anthracene	**77**		41	21	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[a]anthracene	**340**		39	19	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[a]pyrene	**350**		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[b]fluoranthene	**520**		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[g,h,i]perylene	**340**		98	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[k]fluoranthene	**200**		39	18	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Chrysene	**450**		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Dibenz(a,h)anthracene	**110**		98	20	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Fluoranthene	**600**		98	20	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Fluorene	**26**	**J**	98	20	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Indeno[1,2,3-cd]pyrene	**310**		98	35	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
1-Methylnaphthalene	**160**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
2-Methylnaphthalene	**200**		200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Naphthalene	**150**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Phenanthrene	**450**		39	19	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Pyrene	**570**		98	18	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*05/31/13 10:03*	*06/05/13 13:47*	*4*

Client Sample ID: CV1002A-CS

Lab Sample ID: 680-90686-23

Date Collected: 05/22/13 14:55
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Acenaphthylene	**160**	**J**	210	26	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Anthracene	**150**		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[a]anthracene	**380**		42	20	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[a]pyrene	**420**		55	27	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[b]fluoranthene	**640**		64	32	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[g,h,i]perylene	**400**		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[k]fluoranthene	**250**		42	19	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Chrysene	**560**		47	24	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Dibenz(a,h)anthracene	**140**		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Fluoranthene	**700**		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Fluorene	**28**	**J**	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Indeno[1,2,3-cd]pyrene	**350**		110	37	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
1-Methylnaphthalene	**140**	**J**	210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
2-Methylnaphthalene	**170**	**J**	210	37	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Naphthalene	**130**	**J**	210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Phenanthrene	**480**		42	20	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Pyrene	**640**		110	19	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*05/31/13 10:03*	*06/05/13 14:55*	*4*

Client Sample ID: CV1002B-CS

Lab Sample ID: 680-90686-24

Date Collected: 05/22/13 15:05
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Acenaphthylene	**240**		200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Anthracene	**200**		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[a]anthracene	**410**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[a]pyrene	**510**		52	26	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[b]fluoranthene	**880**		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[g,h,i]perylene	**470**		99	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[k]fluoranthene	**290**		40	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Chrysene	**640**		45	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Dibenz(a,h)anthracene	**130**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Fluoranthene	**970**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Fluorene	**28**	**J**	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Indeno[1,2,3-cd]pyrene	**440**		99	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
1-Methylnaphthalene	**180**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
2-Methylnaphthalene	**210**		200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Phenanthrene	**640**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Pyrene	**860**		99	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*30 - 130*	*05/31/13 10:03*	*06/05/13 15:17*	*4*

Client Sample ID: CV1081A-CS

Lab Sample ID: 680-90686-25

Date Collected: 05/22/13 13:50
Matrix: Solid
Date Received: 05/24/13 08:40
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	490	U	490	99	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Acenaphthylene	**74**	**J**	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Anthracene	**170**		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[a]anthracene	**660**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[a]pyrene	**660**		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[b]fluoranthene	**1100**		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[g,h,i]perylene	**470**		99	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[k]fluoranthene	**330**		40	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Chrysene	**820**		45	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Dibenz(a,h)anthracene	**170**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Fluoranthene	**1300**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Fluorene	**41**	**J**	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Indeno[1,2,3-cd]pyrene	**460**		99	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
1-Methylnaphthalene	**130**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
2-Methylnaphthalene	**150**	**J**	200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Naphthalene	**120**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Phenanthrene	**800**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Pyrene	**1100**		99	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*05/31/13 10:03*	*06/05/13 15:40*	*4*

Client Sample ID: CV1084A-CS

Lab Sample ID: 680-90686-26

Date Collected: 05/22/13 14:05
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Acenaphthylene	**31**	**J**	190	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Anthracene	**44**		40	20	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[a]anthracene	**150**		38	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[a]pyrene	**170**		49	25	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[b]fluoranthene	**250**		58	29	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[g,h,i]perylene	**120**		94	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[k]fluoranthene	**80**		38	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Chrysene	**200**		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Dibenz(a,h)anthracene	**55**	**J**	94	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Fluoranthene	**200**		94	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Fluorene	94	U	94	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Indeno[1,2,3-cd]pyrene	**130**		94	34	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
1-Methylnaphthalene	**31**	**J**	190	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
2-Methylnaphthalene	**38**	**J**	190	34	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Naphthalene	**31**	**J**	190	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Phenanthrene	**120**		38	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Pyrene	**180**		94	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*05/31/13 10:03*	*06/05/13 16:02*	*4*

Client Sample ID: CV0950A-CS-SP

Lab Sample ID: 680-90686-27

Date Collected: 05/22/13 13:07
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 67.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Acenaphthylene	**53**	**J**	240	30	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Anthracene	**170**		50	25	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[a]anthracene	**480**		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[a]pyrene	**490**		61	31	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[b]fluoranthene	**800**		72	36	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[g,h,i]perylene	**310**		120	26	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[k]fluoranthene	**260**		47	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Chrysene	**620**		53	27	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Dibenz(a,h)anthracene	**130**		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Fluoranthene	**840**		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Fluorene	**67**	**J**	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Indeno[1,2,3-cd]pyrene	**350**		120	42	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
1-Methylnaphthalene	**120**	**J**	240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
2-Methylnaphthalene	**170**	**J**	240	42	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Naphthalene	**170**	**J**	240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Phenanthrene	**640**		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Pyrene	**700**		120	22	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*05/31/13 10:03*	*06/05/13 16:25*	*4*

Client Sample ID: CV0950B-CS-SP

Lab Sample ID: 680-90686-28

Date Collected: 05/22/13 13:22
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 67.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Acenaphthylene	**17**	**J**	57	7.2	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Anthracene	**27**		12	6.0	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[a]anthracene	**110**		11	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[a]pyrene	**100**		15	7.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[b]fluoranthene	**190**		17	8.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[g,h,i]perylene	**94**		29	6.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[k]fluoranthene	**78**		11	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Chrysene	**150**		13	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Dibenz(a,h)anthracene	**30**		29	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Fluoranthene	**210**		29	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Fluorene	**15**	**J**	29	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Indeno[1,2,3-cd]pyrene	**81**		29	10	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
1-Methylnaphthalene	**33**	**J**	57	6.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
2-Methylnaphthalene	**60**		57	10	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Naphthalene	**52**	**J**	57	6.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Phenanthrene	**140**	**B**	11	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Pyrene	**170**		29	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*06/03/13 06:50*	*06/04/13 11:31*	*1*

Client Sample ID: CV1271A-CS-SP

Lab Sample ID: 680-90686-29

Date Collected: 05/22/13 15:09
Matrix: Solid
Date Received: 05/24/13 08:40
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	☼	06/03/13 06:50	06/04/13 11:50	1
Acenaphthylene	**56**		51	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Anthracene	**67**		11	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[a]anthracene	**350**		10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[a]pyrene	**300**		13	6.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[b]fluoranthene	**530**		16	7.8	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[g,h,i]perylene	**250**		26	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[k]fluoranthene	**220**		10	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Chrysene	**420**		12	5.8	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Dibenz(a,h)anthracene	**77**		26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Fluoranthene	**570**		26	5.1	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Fluorene	**20**	**J**	26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Indeno[1,2,3-cd]pyrene	**180**		26	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
1-Methylnaphthalene	**82**		51	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
2-Methylnaphthalene	**94**		51	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Naphthalene	**75**		51	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Phenanthrene	**360**	**B**	10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Pyrene	**490**		26	4.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*06/03/13 06:50*	*06/04/13 11:50*	*1*

Client Sample ID: FM0028A-CS-SP

Lab Sample ID: 680-90686-30

Date Collected: 05/22/13 14:07
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 81.5

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	☼	06/03/13 06:50	06/04/13 12:08	1
Acenaphthylene	**11**	**J**	49	6.1	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Anthracene	**30**		10	5.1	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[a]anthracene	**170**		9.8	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[a]pyrene	**150**		13	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[b]fluoranthene	**290**		15	7.5	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[g,h,i]perylene	**120**		24	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[k]fluoranthene	**69**		9.8	4.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Chrysene	**200**		11	5.5	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Dibenz(a,h)anthracene	**36**		24	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Fluoranthene	**250**		24	4.9	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Fluorene	**12**	**J**	24	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Indeno[1,2,3-cd]pyrene	**120**		24	8.7	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
1-Methylnaphthalene	**56**		49	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
2-Methylnaphthalene	**68**		49	8.7	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Naphthalene	**54**		49	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Phenanthrene	**140**	**B**	9.8	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Pyrene	**220**		24	4.5	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*06/03/13 06:50*	*06/04/13 12:08*	*1*

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

Client Sample ID: FM0028B-CS-SP
Date Collected: 05/22/13 14:21
Date Received: 05/24/13 08:40

Lab Sample ID: 680-90686-31
Matrix: Solid
Percent Solids: 73.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Acenaphthylene	**15**	**J**	54	6.8	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Anthracene	**14**		11	5.7	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[a]anthracene	**88**		11	5.3	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[a]pyrene	**63**		14	7.1	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[b]fluoranthene	**120**		17	8.3	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[g,h,i]perylene	**55**		27	6.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[k]fluoranthene	**31**		11	4.9	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Chrysene	**97**		12	6.1	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Dibenz(a,h)anthracene	**17**	**J**	27	5.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Fluoranthene	**120**		27	5.4	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Fluorene	**23**	**J**	27	5.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Indeno[1,2,3-cd]pyrene	**47**		27	9.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
1-Methylnaphthalene	**41**	**J**	54	6.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
2-Methylnaphthalene	**54**		54	9.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Naphthalene	**56**		54	6.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Phenanthrene	**110**	**B**	11	5.3	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Pyrene	**100**	**B**	27	5.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*06/05/13 08:37*	*06/05/13 18:54*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-90686-2

SDG Number: 68090686-2

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.
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06/06/2013

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90686-2

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 05/24/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0990D-CS (680-90686-21), CV0996A-CS (680-90686-22), CV1002A-CS (680-90686-23), CV1002B-CS (680-90686-24), CV1081A-CS (680-90686-25), CV1084A-CS (680-90686-26), CV0950A-CS-SP (680-90686-27), CV0950B-CS-SP (680-90686-28), CV1271A-CS-SP (680-90686-29), FM0028A-CS-SP (680-90686-30) and FM0028B-CS-SP (680-90686-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/31/2013, 06/03/2013 and 06/05/2013 and analyzed on 06/04/2013 and 06/05/2013.

Samples CV0990D-CS (680-90686-21)[4X], CV0996A-CS (680-90686-22)[4X], CV1002A-CS (680-90686-23)[4X], CV1002B-CS (680-90686-24)[4X], CV1081A-CS (680-90686-25)[4X], CV1084A-CS (680-90686-26)[4X] and CV0950A-CS-SP (680-90686-27)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-137975/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Phenanthrene and Pyrene were detected in method blank MB 660-138078/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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: 680-90686-2
Sdg Number: 68090686-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90686-21	CV0990D-CS	Solid	05/22/2013 1310	05/24/2013 0840
680-90686-22	CV0996A-CS	Solid	05/22/2013 1425	05/24/2013 0840
680-90686-22MS	CV0996A-CS	Solid	05/22/2013 1425	05/24/2013 0840
680-90686-22MSD	CV0996A-CS	Solid	05/22/2013 1425	05/24/2013 0840
680-90686-23	CV1002A-CS	Solid	05/22/2013 1455	05/24/2013 0840
680-90686-24	CV1002B-CS	Solid	05/22/2013 1505	05/24/2013 0840
680-90686-25	CV1081A-CS	Solid	05/22/2013 1350	05/24/2013 0840
680-90686-26	CV1084A-CS	Solid	05/22/2013 1405	05/24/2013 0840
680-90686-27	CV0950A-CS-SP	Solid	05/22/2013 1307	05/24/2013 0840
680-90686-28	CV0950B-CS-SP	Solid	05/22/2013 1322	05/24/2013 0840
680-90686-29	CV1271A-CS-SP	Solid	05/22/2013 1509	05/24/2013 0840
680-90686-30	FM0028A-CS-SP	Solid	05/22/2013 1407	05/24/2013 0840
680-90686-31	FM0028B-CS-SP	Solid	05/22/2013 1421	05/24/2013 0840

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-2
Sdg Number: 68090686-2

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: 680-90686-2
Sdg Number: 68090686-2

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: 680-90686-2
Sdg Number: 68090686-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	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: 680-90686-2
Sdg Number: 68090686-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-137947					
LCS 660-137947/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137947/1-A	Method Blank	T	Solid	3546	
680-90686-21	CV0990D-CS	T	Solid	3546	
680-90686-22	CV0996A-CS	T	Solid	3546	
680-90686-22MS	Matrix Spike	T	Solid	3546	
680-90686-22MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90686-23	CV1002A-CS	T	Solid	3546	
680-90686-24	CV1002B-CS	T	Solid	3546	
680-90686-25	CV1081A-CS	T	Solid	3546	
680-90686-26	CV1084A-CS	T	Solid	3546	
680-90686-27	CV0950A-CS-SP	T	Solid	3546	
Prep Batch: 660-137975					
LCS 660-137975/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137975/1-A	Method Blank	T	Solid	3546	
680-90686-28	CV0950B-CS-SP	T	Solid	3546	
680-90686-29	CV1271A-CS-SP	T	Solid	3546	
680-90686-30	FM0028A-CS-SP	T	Solid	3546	
680-90686-31	FM0028B-CS-SP	T	Solid	3546	
680-90723-A-1-B MS	Matrix Spike	T	Solid	3546	
680-90723-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-138011					
LCS 660-137975/2-A	Lab Control Sample	T	Solid	8270C LL	660-137975
MB 660-137975/1-A	Method Blank	T	Solid	8270C LL	660-137975
680-90723-A-1-B MS	Matrix Spike	T	Solid	8270C LL	660-137975
680-90723-A-1-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137975
Prep Batch: 660-138078					
LCS 660-138078/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138078/1-A	Method Blank	T	Solid	3546	
660-54591-E-3-B MS	Matrix Spike	T	Solid	3546	
660-54591-E-3-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90686-31	FM0028B-CS-SP	T	Solid	3546	
Analysis Batch:660-138098					
680-90686-28	CV0950B-CS-SP	T	Solid	8270C LL	660-137975
680-90686-29	CV1271A-CS-SP	T	Solid	8270C LL	660-137975
680-90686-30	FM0028A-CS-SP	T	Solid	8270C LL	660-137975
680-90686-31	FM0028B-CS-SP	T	Solid	8270C LL	660-137975

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-2
Sdg Number: 68090686-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-138101					
LCS 660-138078/2-A	Lab Control Sample	T	Solid	8270C LL	660-138078
MB 660-138078/1-A	Method Blank	T	Solid	8270C LL	660-138078
660-54591-E-3-B MS	Matrix Spike	T	Solid	8270C LL	660-138078
660-54591-E-3-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138078
680-90686-31	FM0028B-CS-SP	T	Solid	8270C LL	660-138078
Analysis Batch:660-138106					
LCS 660-137947/2-A	Lab Control Sample	T	Solid	8270C LL	660-137947
MB 660-137947/1-A	Method Blank	T	Solid	8270C LL	660-137947
680-90686-21	CV0990D-CS	T	Solid	8270C LL	660-137947
680-90686-22	CV0996A-CS	T	Solid	8270C LL	660-137947
680-90686-22MS	Matrix Spike	T	Solid	8270C LL	660-137947
680-90686-22MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137947
680-90686-23	CV1002A-CS	T	Solid	8270C LL	660-137947
680-90686-24	CV1002B-CS	T	Solid	8270C LL	660-137947
680-90686-25	CV1081A-CS	T	Solid	8270C LL	660-137947
680-90686-26	CV1084A-CS	T	Solid	8270C LL	660-137947
680-90686-27	CV0950A-CS-SP	T	Solid	8270C LL	660-137947

Report Basis
T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method
General Chemistry				
Analysis Batch:660-137827				
680-90686-21	CV0990D-CS	T	Solid	Moisture
680-90686-22	CV0996A-CS	T	Solid	Moisture
680-90686-22MS	Matrix Spike	T	Solid	Moisture
680-90686-22MSD	Matrix Spike Duplicate	T	Solid	Moisture
680-90686-23	CV1002A-CS	T	Solid	Moisture
680-90686-24	CV1002B-CS	T	Solid	Moisture
680-90686-25	CV1081A-CS	T	Solid	Moisture
680-90686-26	CV1084A-CS	T	Solid	Moisture
680-90686-27	CV0950A-CS-SP	T	Solid	Moisture
680-90686-28	CV0950B-CS-SP	T	Solid	Moisture
680-90686-29	CV1271A-CS-SP	T	Solid	Moisture
680-90686-30	FM0028A-CS-SP	T	Solid	Moisture
680-90686-31	FM0028B-CS-SP	T	Solid	Moisture

Report Basis
T = Total

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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:

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

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

Date Analyzed: 05/22/13 16:34 Lab File ID: 1CE22015.D GC Column:

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

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

Date Analyzed: 05/22/13 16:52 Lab File ID: 1CE22016.D GC Column:

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

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

Date Analyzed: 05/22/13 17:10 Lab File ID: 1CE22017.D GC Column:

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

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

Date Analyzed: 05/22/13 17:29 Lab File ID: 1CE22018.D GC Column:

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

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

Date Analyzed: 05/22/13 17:47 Lab File ID: 1CE22019.D GC Column:

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

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

Date Analyzed: 05/22/13 18:05 Lab File ID: 1CE22020.D GC Column:

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

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMC5973 Analysis Batch Number: 137704

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

Date Analyzed: 05/22/13 18:24 Lab File ID: 1CE22021.D GC Column:

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

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: CCVIS 660-138098/3 Client Sample ID:

Date Analyzed: 06/04/13 10:50 Lab File ID: 1CF04003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/04/

Lab Sample ID: 680-90686-28 Client Sample ID: CV0950B-CS-SP

Date Analyzed: 06/04/13 11:31 Lab File ID: 1CF04005.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	9.01	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/04/

Lab Sample ID: 680-90686-29 Client Sample ID: CV1271A-CS-SP

Date Analyzed: 06/04/13 11:50 Lab File ID: 1CF04006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	9.01	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	10.78	Split Peak	cantins	06/04/

Lab Sample ID: 680-90686-30 Client Sample ID: FM0028A-CS-SP

Date Analyzed: 06/04/13 12:08 Lab File ID: 1CF04007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/
Indeno[1,2,3-cd]pyrene	10.78	Split Peak	cantins	06/05/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMC5973 Analysis Batch Number: 138101

Lab Sample ID: CCVIS 660-138101/3 Client Sample ID:

Date Analyzed: 06/05/13 11:24 Lab File ID: 1CF05003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/05/

Lab Sample ID: LCS 660-138078/2-A Client Sample ID:

Date Analyzed: 06/05/13 16:45 Lab File ID: 1CF05017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/

Lab Sample ID: 660-54591-E-3-B MS Client Sample ID:

Date Analyzed: 06/05/13 17:40 Lab File ID: 1CF05020.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/

Lab Sample ID: 660-54591-E-3-C MSD Client Sample ID:

Date Analyzed: 06/05/13 17:59 Lab File ID: 1CF05021.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-31 Client Sample ID: FM0028B-CS-SP

Date Analyzed: 06/05/13 18:54 Lab File ID: 1CF05024.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/06/
Benzo[k]fluoranthene	9.01	Baseline Event	cantins	06/06/
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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:

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

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMD5973 Analysis Batch Number: 138011

Lab Sample ID: MB 660-137975/1-A Client Sample ID:

Date Analyzed: 06/03/13 18:26 Lab File ID: 1DF03017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.30	Baseline Event	cantins	06/04/

Lab Sample ID: 680-90723-A-1-B MS Client Sample ID:

Date Analyzed: 06/03/13 21:04 Lab File ID: 1DF03024.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/04/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMD5973 Analysis Batch Number: 138106

Lab Sample ID: 680-90686-21 Client Sample ID: CV0990D-CS

Date Analyzed: 06/05/13 12:39 Lab File ID: 1DF05005.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.08	Split Peak	cantins	06/05/
Benzo[g,h,i]perylene	15.55	Baseline Event	cantins	06/05/

Lab Sample ID: 680-90686-22 Client Sample ID: CV0996A-CS

Date Analyzed: 06/05/13 13:47 Lab File ID: 1DF05008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/05/

Lab Sample ID: 680-90686-22 MS Client Sample ID: CV0996A-CS MS

Date Analyzed: 06/05/13 14:10 Lab File ID: 1DF05009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/05/

Lab Sample ID: 680-90686-23 Client Sample ID: CV1002A-CS

Date Analyzed: 06/05/13 14:55 Lab File ID: 1DF05011.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/05/

Lab Sample ID: 680-90686-24 Client Sample ID: CV1002B-CS

Date Analyzed: 06/05/13 15:17 Lab File ID: 1DF05012.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/05/

Lab Sample ID: 680-90686-25 Client Sample ID: CV1081A-CS

Date Analyzed: 06/05/13 15:40 Lab File ID: 1DF05013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/05/

Lab Sample ID: 680-90686-26 Client Sample ID: CV1084A-CS

Date Analyzed: 06/05/13 16:02 Lab File ID: 1DF05014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/05/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMD5973 Analysis Batch Number: 138106

Lab Sample ID: 680-90686-27 Client Sample ID: CV0950A-CS-SP

Date Analyzed: 06/05/13 16:25 Lab File ID: 1DF05015.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/05/

DB-5MS _____ ID: 250(um)

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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0990D-CS	680-90686-21	92
CV0996A-CS	680-90686-22	89
CV1002A-CS	680-90686-23	77
CV1002B-CS	680-90686-24	104
CV1081A-CS	680-90686-25	89
CV1084A-CS	680-90686-26	95
CV0950A-CS-SP	680-90686-27	70
CV0950B-CS-SP	680-90686-28	67
CV1271A-CS-SP	680-90686-29	89
FM0028A-CS-SP	680-90686-30	80
FM0028B-CS-SP	680-90686-31	71
	MB 660-137947/1-A	84
	MB 660-137975/1-A	91
	MB 660-138078/1-A	79
	LCS 660-137947/2-A	79
	LCS 660-137975/2-A	97
	LCS 660-138078/2-A	83
	680-90723-A-1-B MS	89
	660-54591-E-3-B MS	74
CV0996A-CS MS	680-90686-22 MS	85
	680-90723-A-1-C MSD	88
	660-54591-E-3-C MSD	81
CV0996A-CS MSD	680-90686-22 MSD	85

	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1DF05007.D

Lab ID: LCS 660-137947/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	529	79	39-130	
Acenaphthylene	665	576	87	38-130	
Anthracene	665	591	89	37-130	
Benzo[a]anthracene	665	545	82	40-130	
Benzo[a]pyrene	665	521	78	49-130	
Benzo[b]fluoranthene	665	588	88	37-130	
Benzo[g,h,i]perylene	665	618	93	32-130	
Benzo[k]fluoranthene	665	562	84	32-130	
Chrysene	665	575	86	41-130	
Dibenz(a,h)anthracene	665	572	86	27-130	
Fluoranthene	665	572	86	40-130	
Fluorene	665	568	85	40-130	
Indeno[1,2,3-cd]pyrene	665	537	81	30-130	
1-Methylnaphthalene	665	505	76	31-130	
2-Methylnaphthalene	665	535	80	33-130	
Naphthalene	665	529	80	36-130	
Phenanthrene	665	569	85	42-130	
Pyrene	665	613	92	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1DF03018.D

Lab ID: LCS 660-137975/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	648	608	94	39-130	
Acenaphthylene	648	654	101	38-130	
Anthracene	648	676	104	37-130	
Benzo[a]anthracene	648	622	96	40-130	
Benzo[a]pyrene	648	602	93	49-130	
Benzo[b]fluoranthene	648	684	105	37-130	
Benzo[g,h,i]perylene	648	599	92	32-130	
Benzo[k]fluoranthene	648	629	97	32-130	
Chrysene	648	642	99	41-130	
Dibenz(a,h)anthracene	648	617	95	27-130	
Fluoranthene	648	659	102	40-130	
Fluorene	648	656	101	40-130	
Indeno[1,2,3-cd]pyrene	648	574	89	30-130	
1-Methylnaphthalene	648	569	88	31-130	
2-Methylnaphthalene	648	610	94	33-130	
Naphthalene	648	588	91	36-130	
Phenanthrene	648	660	102	42-130	
Pyrene	648	681	105	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1CF05017.D

Lab ID: LCS 660-138078/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	548	82	39-130	
Acenaphthylene	664	545	82	38-130	
Anthracene	664	534	80	37-130	
Benzo[a]anthracene	664	569	86	40-130	
Benzo[a]pyrene	664	520	78	49-130	
Benzo[b]fluoranthene	664	611	92	37-130	
Benzo[g,h,i]perylene	664	560	84	32-130	
Benzo[k]fluoranthene	664	527	79	32-130	
Chrysene	664	533	80	41-130	
Dibenz(a,h)anthracene	664	594	89	27-130	
Fluoranthene	664	557	84	40-130	
Fluorene	664	533	80	40-130	
Indeno[1,2,3-cd]pyrene	664	457	69	30-130	
1-Methylnaphthalene	664	529	80	31-130	
2-Methylnaphthalene	664	529	80	33-130	
Naphthalene	664	422	63	36-130	
Phenanthrene	664	504	76	42-130	
Pyrene	664	592	89	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1DF03024.D

Lab ID: 680-90723-A-1-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	824	490 U	756	92	39-130	
Acenaphthylene	824	76 J	877	97	38-130	
Anthracene	824	130	917	96	37-130	
Benzo[a]anthracene	824	370	984	75	40-130	
Benzo[a]pyrene	824	360	939	70	49-130	
Benzo[b]fluoranthene	824	610	1240	76	37-130	
Benzo[g,h,i]perylene	824	250	780	64	32-130	
Benzo[k]fluoranthene	824	180	911	89	32-130	
Chrysene	824	480	1140	80	41-130	
Dibenz(a,h)anthracene	824	94 J	721	76	27-130	
Fluoranthene	824	670	1220	67	40-130	
Fluorene	824	33 J	813	95	40-130	
Indeno[1,2,3-cd]pyrene	824	260	798	66	30-130	
1-Methylnaphthalene	824	220	839	75	31-130	
2-Methylnaphthalene	824	240	904	81	33-130	
Naphthalene	824	180 J	820	78	36-130	
Phenanthrene	824	620	1160	65	42-130	
Pyrene	824	580	1190	74	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1CF05020.D

Lab ID: 660-54591-E-3-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	737	110 U	556	75	39-130	
Acenaphthylene	737	44 U	581	79	38-130	
Anthracene	737	9.2 U	564	77	37-130	
Benzo[a]anthracene	737	8.8 U	588	80	40-130	
Benzo[a]pyrene	737	11 U	522	71	49-130	
Benzo[b]fluoranthene	737	13 U	584	79	37-130	
Benzo[g,h,i]perylene	737	22 U	535	73	32-130	
Benzo[k]fluoranthene	737	8.8 U	606	82	32-130	
Chrysene	737	9.9 U	554	75	41-130	
Dibenz(a,h)anthracene	737	22 U	596	81	27-130	
Fluoranthene	737	22 U	584	79	40-130	
Fluorene	737	22 U	570	77	40-130	
Indeno[1,2,3-cd]pyrene	737	22 U	511	69	30-130	
1-Methylnaphthalene	737	44 U	561	76	31-130	
2-Methylnaphthalene	737	44 U	575	78	33-130	
Naphthalene	737	44 U	458	62	36-130	
Phenanthrene	737	5.2 J	523	70	42-130	
Pyrene	737	22 U	568	77	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1DF05009.D

Lab ID: 680-90686-22 MS Client ID: CV0996A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	819	490 U	755	92	39-130	
Acenaphthylene	819	50 J	847	97	38-130	
Anthracene	819	77	874	97	37-130	
Benzo[a]anthracene	819	340	1060	88	40-130	
Benzo[a]pyrene	819	350	1020	82	49-130	
Benzo[b]fluoranthene	819	520	1210	84	37-130	
Benzo[g,h,i]perylene	819	340	1190	103	32-130	
Benzo[k]fluoranthene	819	200	977	95	32-130	
Chrysene	819	450	1200	92	41-130	
Dibenz(a,h)anthracene	819	110	888	95	27-130	
Fluoranthene	819	600	1300	85	40-130	
Fluorene	819	26 J	814	96	40-130	
Indeno[1,2,3-cd]pyrene	819	310	1100	96	30-130	
1-Methylnaphthalene	819	160 J	854	85	31-130	
2-Methylnaphthalene	819	200	940	90	33-130	
Naphthalene	819	150 J	844	85	36-130	
Phenanthrene	819	450	1220	94	42-130	
Pyrene	819	570	1370	97	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1DF03025.D

Lab ID: 680-90723-A-1-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	824	767	93	1	40	39-130	
Acenaphthylene	824	869	96	1	40	38-130	
Anthracene	824	910	95	1	40	37-130	
Benzo[a]anthracene	824	964	72	2	40	40-130	
Benzo[a]pyrene	824	942	71	0	40	49-130	
Benzo[b]fluoranthene	824	1190	71	3	40	37-130	
Benzo[g,h,i]perylene	824	792	66	2	40	32-130	
Benzo[k]fluoranthene	824	907	88	0	40	32-130	
Chrysene	824	1090	74	4	40	41-130	
Dibenz(a,h)anthracene	824	729	77	1	40	27-130	
Fluoranthene	824	1130	56	8	40	40-130	
Fluorene	824	812	94	0	40	40-130	
Indeno[1,2,3-cd]pyrene	824	801	66	0	40	30-130	
1-Methylnaphthalene	824	840	75	0	40	31-130	
2-Methylnaphthalene	824	899	80	1	40	33-130	
Naphthalene	824	810	77	1	40	36-130	
Phenanthrene	824	1080	56	7	40	42-130	
Pyrene	824	1090	62	9	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1CF05021.D

Lab ID: 660-54591-E-3-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	735	609	83	9	40	39-130	
Acenaphthylene	735	594	81	2	40	38-130	
Anthracene	735	580	79	3	40	37-130	
Benzo[a]anthracene	735	627	85	6	40	40-130	
Benzo[a]pyrene	735	582	79	11	40	49-130	
Benzo[b]fluoranthene	735	644	88	10	40	37-130	
Benzo[g,h,i]perylene	735	587	80	9	40	32-130	
Benzo[k]fluoranthene	735	646	88	6	40	32-130	
Chrysene	735	599	81	8	40	41-130	
Dibenz(a,h)anthracene	735	672	91	12	40	27-130	
Fluoranthene	735	645	88	10	40	40-130	
Fluorene	735	601	82	5	40	40-130	
Indeno[1,2,3-cd]pyrene	735	537	73	5	40	30-130	
1-Methylnaphthalene	735	585	79	4	40	31-130	
2-Methylnaphthalene	735	578	79	1	40	33-130	
Naphthalene	735	463	63	1	40	36-130	
Phenanthrene	735	540	73	3	40	42-130	
Pyrene	735	623	85	9	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.: 680-90686-2

SDG No.: 68090686-2

Matrix: Solid Level: Low Lab File ID: 1DF05010.D

Lab ID: 680-90686-22 MSD Client ID: CV0996A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	819	724	88	4	40	39-130	
Acenaphthylene	819	804	92	5	40	38-130	
Anthracene	819	844	94	4	40	37-130	
Benzo[a]anthracene	819	1030	84	3	40	40-130	
Benzo[a]pyrene	819	960	74	6	40	49-130	
Benzo[b]fluoranthene	819	1210	84	0	40	37-130	
Benzo[g,h,i]perylene	819	1090	91	9	40	32-130	
Benzo[k]fluoranthene	819	856	80	13	40	32-130	
Chrysene	819	1100	79	9	40	41-130	
Dibenz(a,h)anthracene	819	866	92	2	40	27-130	
Fluoranthene	819	1240	78	5	40	40-130	
Fluorene	819	786	93	3	40	40-130	
Indeno[1,2,3-cd]pyrene	819	1020	87	7	40	30-130	
1-Methylnaphthalene	819	795	77	7	40	31-130	
2-Methylnaphthalene	819	869	82	8	40	33-130	
Naphthalene	819	801	80	5	40	36-130	
Phenanthrene	819	1160	86	5	40	42-130	
Pyrene	819	1270	86	7	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.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1DF05006.D Lab Sample ID: MB 660-137947/1-A

Matrix: Solid Date Extracted: 05/31/2013 10:03

Instrument ID: BSMD5973 Date Analyzed: 06/05/2013 13:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CV0990D-CS	680-90686-21	1DF05005.D	06/05/2013 12:39
	LCS 660-137947/2-A	1DF05007.D	06/05/2013 13:24
CV0996A-CS	680-90686-22	1DF05008.D	06/05/2013 13:47
CV0996A-CS MS	680-90686-22 MS	1DF05009.D	06/05/2013 14:10
CV0996A-CS MSD	680-90686-22 MSD	1DF05010.D	06/05/2013 14:32
CV1002A-CS	680-90686-23	1DF05011.D	06/05/2013 14:55
CV1002B-CS	680-90686-24	1DF05012.D	06/05/2013 15:17
CV1081A-CS	680-90686-25	1DF05013.D	06/05/2013 15:40
CV1084A-CS	680-90686-26	1DF05014.D	06/05/2013 16:02
CV0950A-CS-SP	680-90686-27	1DF05015.D	06/05/2013 16:25

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1DF03017.D Lab Sample ID: MB 660-137975/1-A

Matrix: Solid Date Extracted: 06/03/2013 06:50

Instrument ID: BSMD5973 Date Analyzed: 06/03/2013 18:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137975/2-A	1DF03018.D	06/03/2013 18:48
	680-90723-A-1-B MS	1DF03024.D	06/03/2013 21:04
	680-90723-A-1-C MSD	1DF03025.D	06/03/2013 21:26
CV0950B-CS-SP	680-90686-28	1CF04005.D	06/04/2013 11:31
CV1271A-CS-SP	680-90686-29	1CF04006.D	06/04/2013 11:50
FM0028A-CS-SP	680-90686-30	1CF04007.D	06/04/2013 12:08

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1CF05016.D Lab Sample ID: MB 660-138078/1-A

Matrix: Solid Date Extracted: 06/05/2013 08:37

Instrument ID: BSMC5973 Date Analyzed: 06/05/2013 16:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138078/2-A	1CF05017.D	06/05/2013 16:45
	660-54591-E-3-B MS	1CF05020.D	06/05/2013 17:40
	660-54591-E-3-C MSD	1CF05021.D	06/05/2013 17:59
FM0028B-CS-SP	680-90686-31	1CF05024.D	06/05/2013 18:54

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1CF04002.D DFTPP Injection Date: 06/04/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:20

Analysis Batch No.: 138098

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.7	
68	Less than 2.0 % of mass 69	0.7	(1.3)1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	49.8	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.6	
442	Greater than 50.0 % of mass 198	71.6	
443	15.0 - 24.0 % of mass 442	13.6	(19.0)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
	CCVIS 660-138098/3	1CF04003.D	06/04/2013	10:50
CV0950B-CS-SP	680-90686-28	1CF04005.D	06/04/2013	11:31
CV1271A-CS-SP	680-90686-29	1CF04006.D	06/04/2013	11:50
FM0028A-CS-SP	680-90686-30	1CF04007.D	06/04/2013	12:08
FM0028B-CS-SP	680-90686-31	1CF04008.D	06/04/2013	12:26

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1CF05002.D DFTPP Injection Date: 06/05/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:08

Analysis Batch No.: 138101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.6	
68	Less than 2.0 % of mass 69	0.5	(1.2)1
69	Mass 69 relative abundance	43.5	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	10.0 - 80.0 % of mass 198	48.1	
197	Less than 2.0 % of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	12.5	
442	Greater than 50.0 % of mass 198	88.5	
443	15.0 - 24.0 % of mass 442	16.6	(18.8)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 660-138101/3	1CF05003.D	06/05/2013	11:24
	MB 660-138078/1-A	1CF05016.D	06/05/2013	16:27
	LCS 660-138078/2-A	1CF05017.D	06/05/2013	16:45
	660-54591-E-3-B MS	1CF05020.D	06/05/2013	17:40
	660-54591-E-3-C MSD	1CF05021.D	06/05/2013	17:59
FM0028B-CS-SP	680-90686-31	1CF05024.D	06/05/2013	18:54

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1DF03002.D DFTPP Injection Date: 06/03/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:41

Analysis Batch No.: 138011

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.7	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	52.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.0	
275	10.0 - 60.0 % of mass 198	25.8	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	8.3	
442	Greater than 50.0 % of mass 198	57.6	
443	15.0 - 24.0 % of mass 442	10.8	(18.7)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 660-138011/3	1DF03003.D	06/03/2013	10:59
	MB 660-137975/1-A	1DF03017.D	06/03/2013	18:26
	LCS 660-137975/2-A	1DF03018.D	06/03/2013	18:48
	680-90723-A-1-B MS	1DF03024.D	06/03/2013	21:04
	680-90723-A-1-C MSD	1DF03025.D	06/03/2013	21:26

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Lab File ID: 1DF05002.D DFTPP Injection Date: 06/05/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:38

Analysis Batch No.: 138106

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	34.0	
70	Less than 2.0 % of mass 69	0.2	(0.7)1
127	10.0 - 80.0 % of mass 198	45.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	30.1	
365	Greater than 1.0 % of mass 198	4.5	
441	Present but less than mass 443	13.5	
442	Greater than 50.0 % of mass 198	89.1	
443	15.0 - 24.0 % of mass 442	16.8	(18.8)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 660-138106/3	1DF05003.D	06/05/2013	11:54
CV0990D-CS	680-90686-21	1DF05005.D	06/05/2013	12:39
	MB 660-137947/1-A	1DF05006.D	06/05/2013	13:02
	LCS 660-137947/2-A	1DF05007.D	06/05/2013	13:24
CV0996A-CS	680-90686-22	1DF05008.D	06/05/2013	13:47
CV0996A-CS MS	680-90686-22 MS	1DF05009.D	06/05/2013	14:10
CV0996A-CS MSD	680-90686-22 MSD	1DF05010.D	06/05/2013	14:32
CV1002A-CS	680-90686-23	1DF05011.D	06/05/2013	14:55
CV1002B-CS	680-90686-24	1DF05012.D	06/05/2013	15:17
CV1081A-CS	680-90686-25	1DF05013.D	06/05/2013	15:40
CV1084A-CS	680-90686-26	1DF05014.D	06/05/2013	16:02
CV0950A-CS-SP	680-90686-27	1DF05015.D	06/05/2013	16:25

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138098/3 Date Analyzed: 06/04/2013 10:50

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

Lab File ID (Standard): 1CF04003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3174307	4.05	2209321	5.13	4430348	6.10
UPPER LIMIT		6348614	4.55	4418642	5.63	8860696	6.60
LOWER LIMIT		1587154	3.55	1104661	4.63	2215174	5.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90686-28	CV0950B-CS-SP	2092050	4.05	1496063	5.13	2891899	6.10
680-90686-29	CV1271A-CS-SP	2467766	4.05	1796446	5.13	3300982	6.10
680-90686-30	FM0028A-CS-SP	2679013	4.05	1932973	5.13	3474938	6.10

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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138098/3 Date Analyzed: 06/04/2013 10:50

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

Lab File ID (Standard): 1CF04003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5836553	8.07	5791367	9.41		
UPPER LIMIT		11673106	8.57	11582734	9.91		
LOWER LIMIT		2918277	7.57	2895684	8.91		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90686-28	CV0950B-CS-SP	3409804	8.06	3592030	9.40		
680-90686-29	CV1271A-CS-SP	3493122	8.06	3434417	9.40		
680-90686-30	FM0028A-CS-SP	3616697	8.06	3317527	9.40		

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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138101/3 Date Analyzed: 06/05/2013 11:24

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

Lab File ID (Standard): 1CF05003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3117690	4.04	2187855	5.13	4236955	6.09
UPPER LIMIT		6235380	4.54	4375710	5.63	8473910	6.59
LOWER LIMIT		1558845	3.54	1093928	4.63	2118478	5.59
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138078/1-A		2257739	4.04	1708532	5.13	3288296	6.10
LCS 660-138078/2-A		2352017	4.04	1684321	5.13	3109104	6.09
660-54591-E-3-B MS		2374954	4.04	1721862	5.13	3254179	6.09
660-54591-E-3-C MSD		2368035	4.04	1679633	5.13	3206205	6.09
680-90686-31	FM0028B-CS-SP	2376376	4.04	1697573	5.13	3040048	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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138101/3 Date Analyzed: 06/05/2013 11:24

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

Lab File ID (Standard): 1CF05003.D Heated Purge: (Y/N) N

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5431412	8.06	5530236	9.39		
UPPER LIMIT		10862824	8.56	11060472	9.89		
LOWER LIMIT		2715706	7.56	2765118	8.89		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138078/1-A		3709111	8.07	3602707	9.42		
LCS 660-138078/2-A		3452156	8.06	3333209	9.39		
660-54591-E-3-B MS		3780031	8.06	3686398	9.39		
660-54591-E-3-C MSD		3749843	8.06	3687074	9.39		
680-90686-31	FM0028B-CS-SP	3275488	8.06	3358222	9.39		

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.: 680-90686-2

SDG No.: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138011/3 Date Analyzed: 06/03/2013 10:59

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

Lab File ID (Standard): 1DF03003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3550475	6.28	1958003	7.95	3275219	9.20
UPPER LIMIT		7100950	6.78	3916006	8.45	6550438	9.70
LOWER LIMIT		1775238	5.78	979002	7.45	1637610	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137975/1-A		3456782	6.27	1935400	7.95	3051369	9.20
LCS 660-137975/2-A		3727808	6.28	2062640	7.94	3267982	9.20
680-90723-A-1-B MS		3329719	6.28	1830171	7.94	2906466	9.20
680-90723-A-1-C MSD		3354388	6.28	1866655	7.94	2984919	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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138011/3 Date Analyzed: 06/03/2013 10:59

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

Lab File ID (Standard): 1DF03003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3125523	11.57	3123612	13.47		
UPPER LIMIT		6251046	12.07	6247224	13.97		
LOWER LIMIT		1562762	11.07	1561806	12.97		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137975/1-A		2809734	11.56	3127100	13.47		
LCS 660-137975/2-A		2981539	11.56	3229027	13.47		
680-90723-A-1-B MS		2640914	11.57	2937416	13.48		
680-90723-A-1-C MSD		2748534	11.57	2860803	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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138106/3 Date Analyzed: 06/05/2013 11:54

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

Lab File ID (Standard): 1DF05003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3131433	6.27	1623515	7.93	2616277	9.19
UPPER LIMIT		6262866	6.77	3247030	8.43	5232554	9.69
LOWER LIMIT		1565717	5.77	811758	7.43	1308139	8.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90686-21	CV0990D-CS	3203687	6.26	1698966	7.94	2691513	9.19
MB 660-137947/1-A		3666651	6.26	1997867	7.94	3107850	9.19
LCS 660-137947/2-A		3388994	6.26	1879829	7.94	2952631	9.20
680-90686-22	CV0996A-CS	3132851	6.27	1653470	7.93	2610774	9.19
680-90686-22 MS	CV0996A-CS MS	3218693	6.27	1730193	7.94	2727651	9.19
680-90686-22 MSD	CV0996A-CS MSD	3212164	6.27	1707182	7.94	2698420	9.19
680-90686-23	CV1002A-CS	3255916	6.27	1752419	7.94	2798199	9.19
680-90686-24	CV1002B-CS	3449646	6.27	1866212	7.94	2883969	9.19
680-90686-25	CV1081A-CS	3089875	6.27	1661065	7.94	2579236	9.20
680-90686-26	CV1084A-CS	3110906	6.27	1675868	7.94	2633162	9.19
680-90686-27	CV0950A-CS-SP	3432821	6.27	1824005	7.94	2838613	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.: 680-90686-2

SDG No.: 68090686-2

Sample No.: CCVIS 660-138106/3 Date Analyzed: 06/05/2013 11:54

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

Lab File ID (Standard): 1DF05003.D Heated Purge: (Y/N) N

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2384410	11.55	2379163	13.46		
UPPER LIMIT		4768820	12.05	4758326	13.96		
LOWER LIMIT		1192205	11.05	1189582	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90686-21	CV0990D-CS	2393891	11.55	2431182	13.45		
MB 660-137947/1-A		2518522	11.55	2463253	13.45		
LCS 660-137947/2-A		2613136	11.55	2620924	13.45		
680-90686-22	CV0996A-CS	2246091	11.55	2420191	13.45		
680-90686-22 MS	CV0996A-CS MS	2317889	11.55	2645002	13.46		
680-90686-22 MSD	CV0996A-CS MSD	2340363	11.55	2673967	13.46		
680-90686-23	CV1002A-CS	2480573	11.56	2934674	13.46		
680-90686-24	CV1002B-CS	2488868	11.56	2905045	13.46		
680-90686-25	CV1081A-CS	2332271	11.56	2750385	13.46		
680-90686-26	CV1084A-CS	2440970	11.56	2805447	13.47		
680-90686-27	CV0950A-CS-SP	2536300	11.56	2939519	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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV0990D-CS | Lab Sample ID: 680-90686-21

Matrix: Solid | Lab File ID: 1DF05005.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 13:10

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.28(g) | Date Analyzed: 06/05/2013 12:39

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

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

% Moisture: 27.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	34	J	220	27
120-12-7	Anthracene	120		46	23
56-55-3	Benzo[a]anthracene	490		43	21
50-32-8	Benzo[a]pyrene	460		56	28
205-99-2	Benzo[b]fluoranthene	780		66	33
191-24-2	Benzo[g,h,i]perylene	410		110	24
207-08-9	Benzo[k]fluoranthene	230		43	20
218-01-9	Chrysene	710		49	24
53-70-3	Dibenz(a,h)anthracene	130		110	22
206-44-0	Fluoranthene	990		110	22
86-73-7	Fluorene	55	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	360		110	38
90-12-0	1-Methylnaphthalene	190	J	220	24
91-57-6	2-Methylnaphthalene	270		220	38
91-20-3	Naphthalene	150	J	220	24
85-01-8	Phenanthrene	790		43	21
129-00-0	Pyrene	860		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05005.D
Lab Smp Id: 680-90686-A-21-A Client Smp ID: CV0990D-CS
Inj Date : 05-JUN-2013 12:39
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-21-a
Misc Info : 680-90686-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 5
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	15.280	Weight Extracted
M	27.571	% 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	6.265	(1.000)	3203687	40.0000	
* 7	Acenaphthene-d10	164	7.937	7.934	(1.000)	1698966	40.0000	
* 11	Phenanthrene-d10	188	9.189	9.191	(1.000)	2691513	40.0000	
$ 15	o-Terphenyl	230	9.500	9.503	(1.034)	90779	2.30220	830
* 19	Chrysene-d12	240	11.551	11.553	(1.000)	2393891	40.0000	
* 24	Perylene-d12	264	13.454	13.457	(1.000)	2431182	40.0000	
2	Naphthalene	128	6.286	6.289	(1.004)	32881	0.41619	150
3	2-Methylnaphthalene	142	6.986	6.988	(1.115)	37194	0.73939	270
4	1-Methylnaphthalene	142	7.080	7.076	(1.130)	27924	0.53921	190
5	1,1'-Biphenyl	154	7.420	7.423	(0.935)	10312	0.17965	65
6	Acenaphthylene	152	7.808	7.811	(0.984)	6622	0.09401	34
8	Acenaphthene	154	7.961	7.963	(1.003)	7299	0.16334	59
9	Dibenzofuran	168	8.108	8.110	(1.021)	16244	0.26363	95
10	Fluorene	166	8.401	8.404	(1.058)	7739	0.15306	55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.206	9.215	(1.002)	160115	2.19652	790
13 Anthracene	178	9.248	9.256	(1.006)	22951	0.32450	120
16 Fluoranthene	202	10.194	10.196	(1.109)	204662	2.74440	990
17 Pyrene	202	10.382	10.384	(0.899)	166025	2.36883	860
18 Benzo(a)anthracene	228	11.533	11.542	(0.998)	97015	1.36553	490
20 Chrysene	228	11.574	11.583	(1.002)	126556	1.97821	710
21 Benzo(b)fluoranthene	252	12.884	12.893	(0.958)	132033	2.16780	780
22 Benzo(k)fluoranthene	252	12.920	12.934	(0.960)	41409	0.64923	230
23 Benzo(a)pyrene	252	13.349	13.363	(0.992)	71069	1.27712	460
25 Indeno(1,2,3-cd)pyrene	276	15.082	15.102	(1.121)	53851	1.00020	360(M)
26 Dibenzo(a,h)anthracene	278	15.117	15.137	(1.124)	16875	0.36239	130
27 Benzo(g,h,i)perylene	276	15.552	15.572	(1.156)	62219	1.12709	410(M)

QC Flag Legend

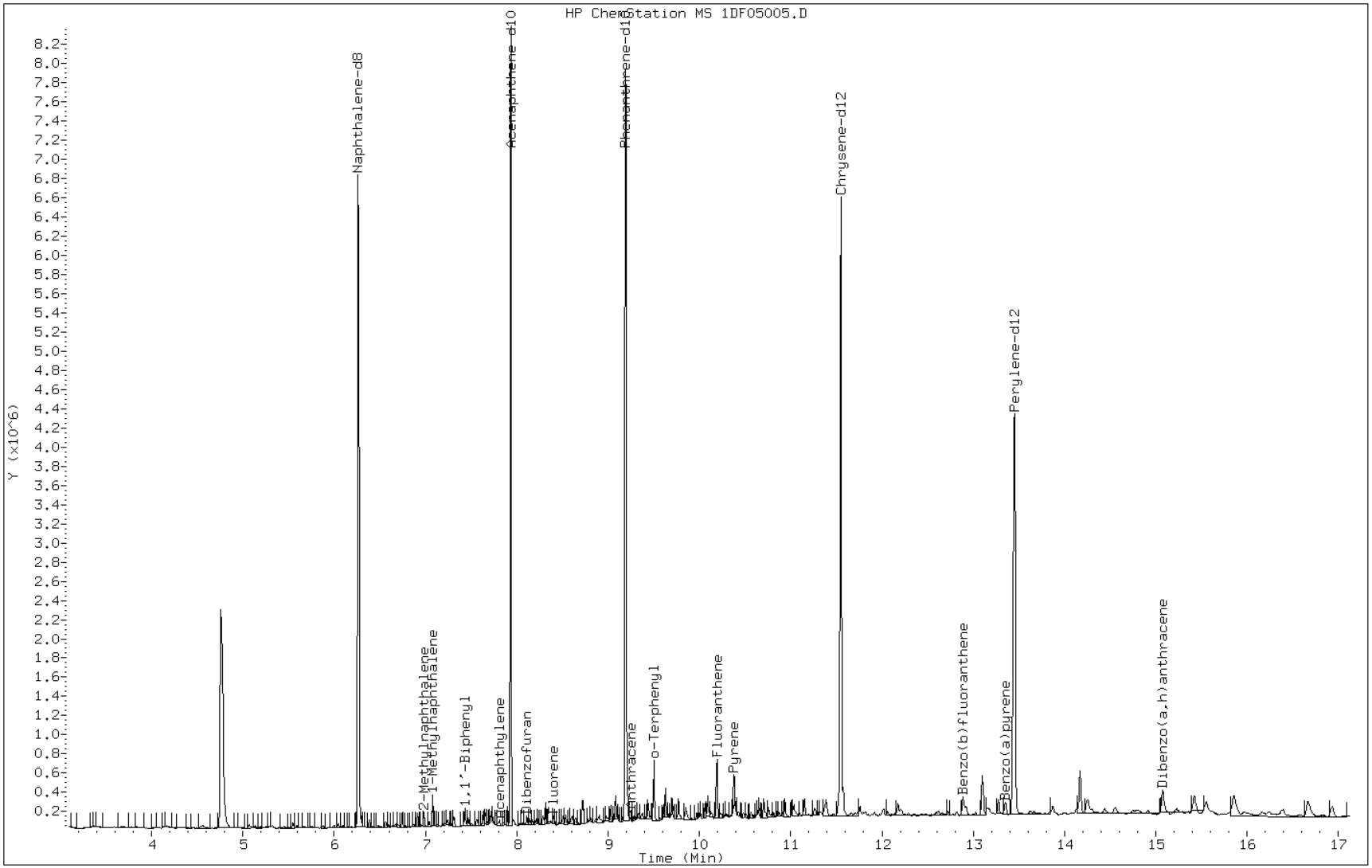
M - Compound response manually integrated.

Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC



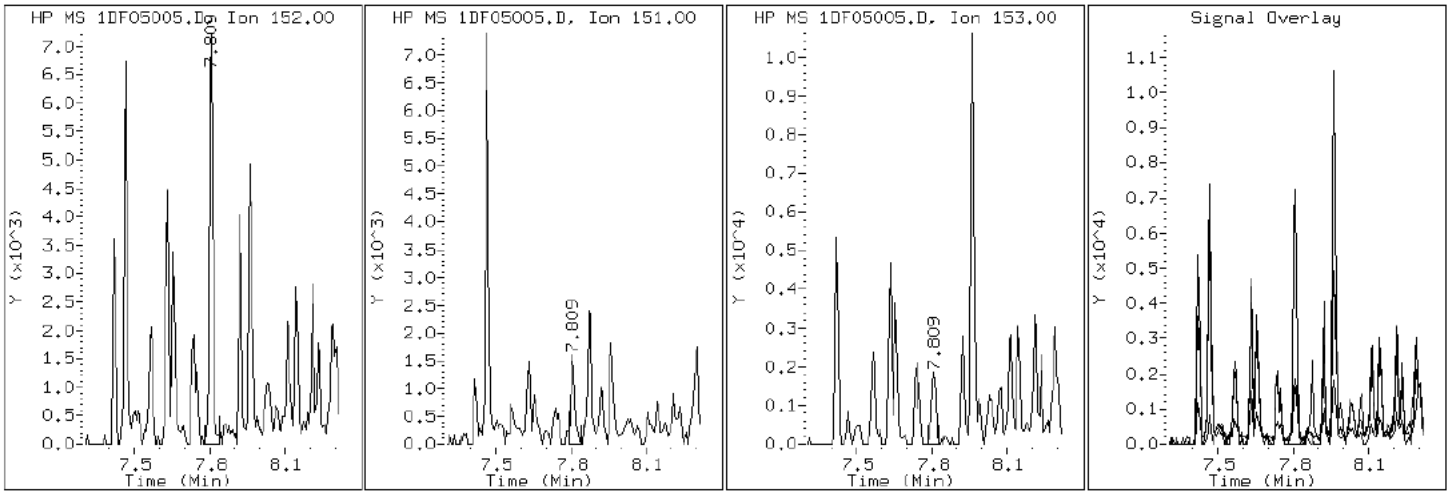
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

6 Acenaphthylene



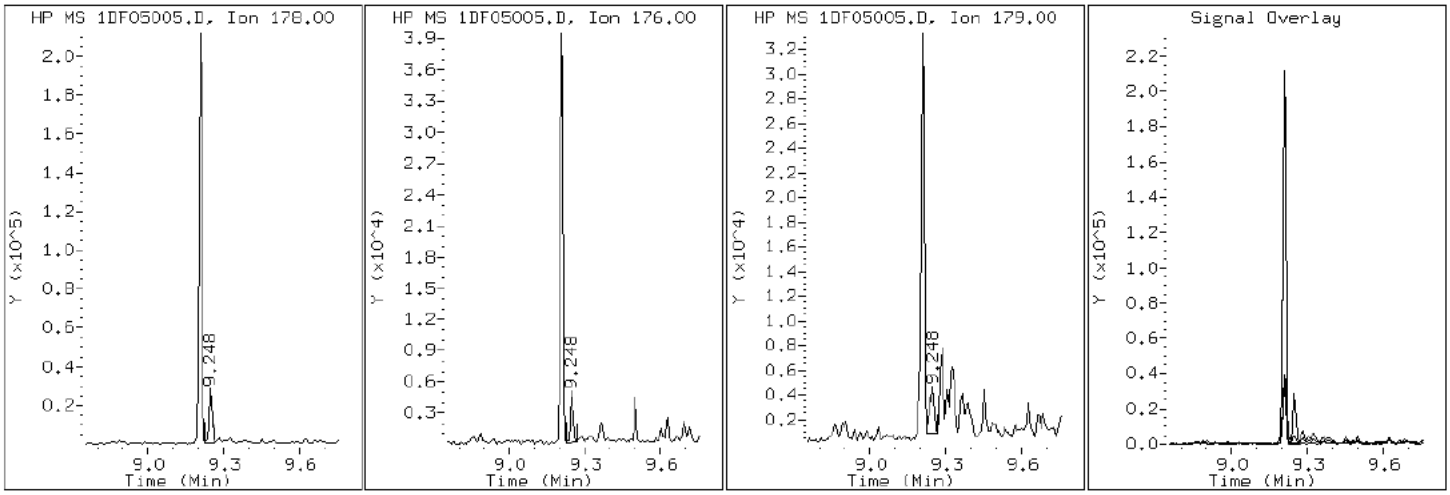
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

13 Anthracene



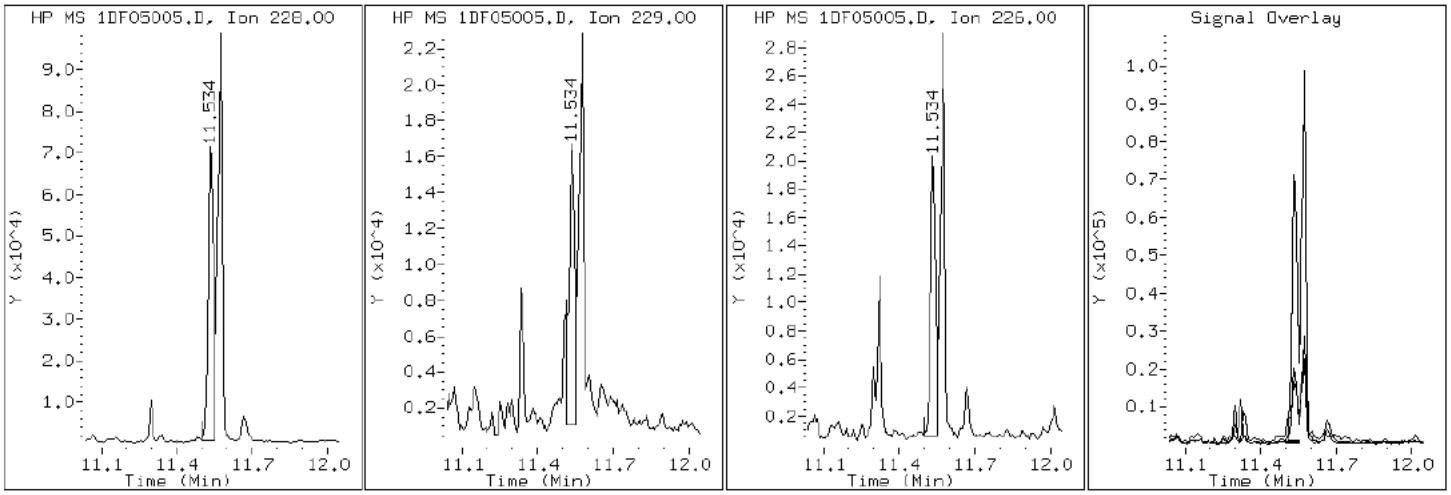
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

18 Benzo(a)anthracene



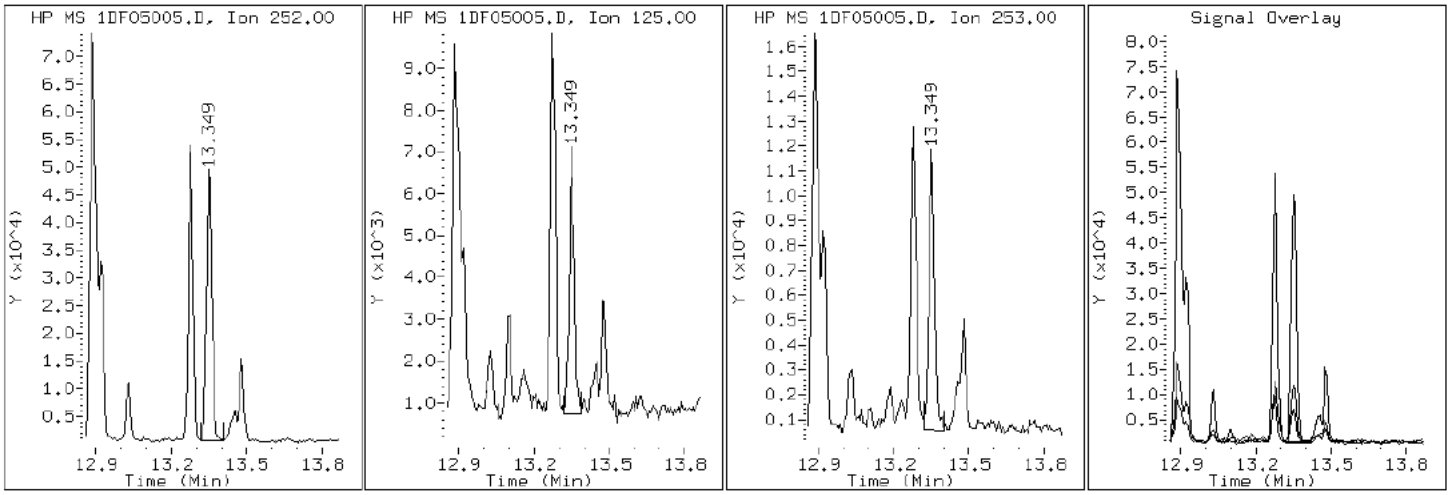
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

23 Benzo(a)pyrene



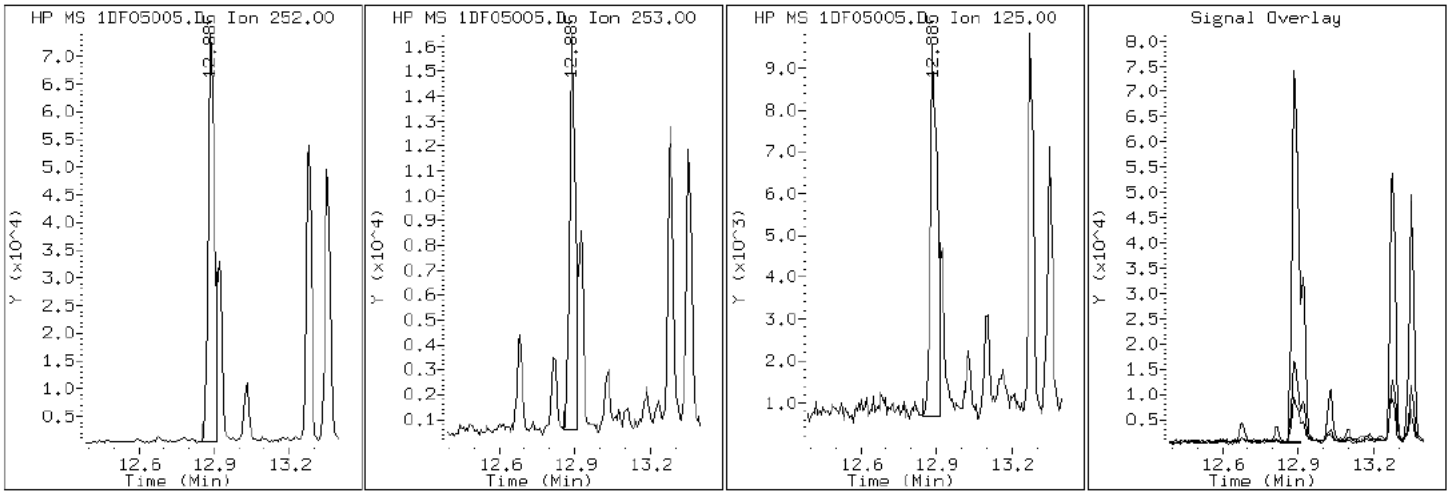
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

21 Benzo(b)fluoranthene



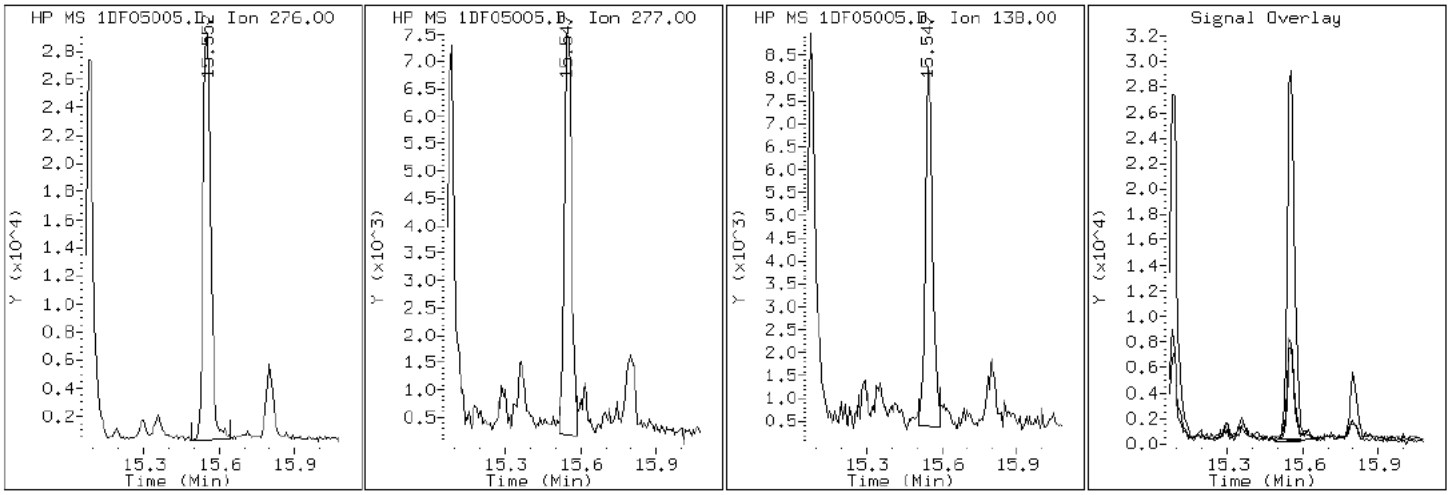
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

27 Benzo(g,h,i)perylene



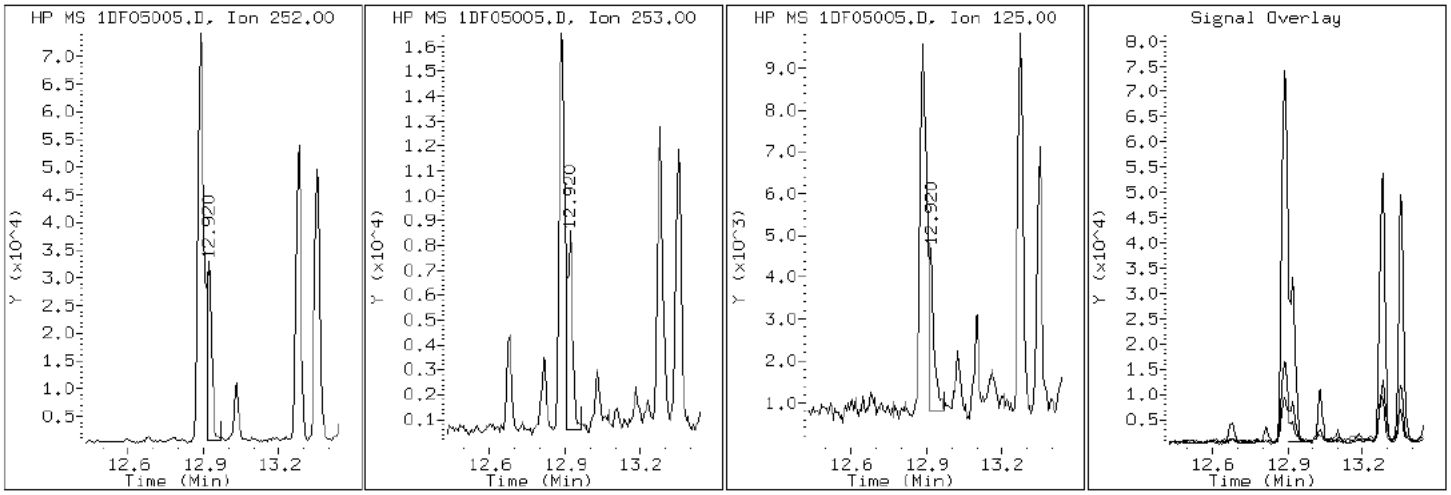
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

22 Benzo(k)fluoranthene



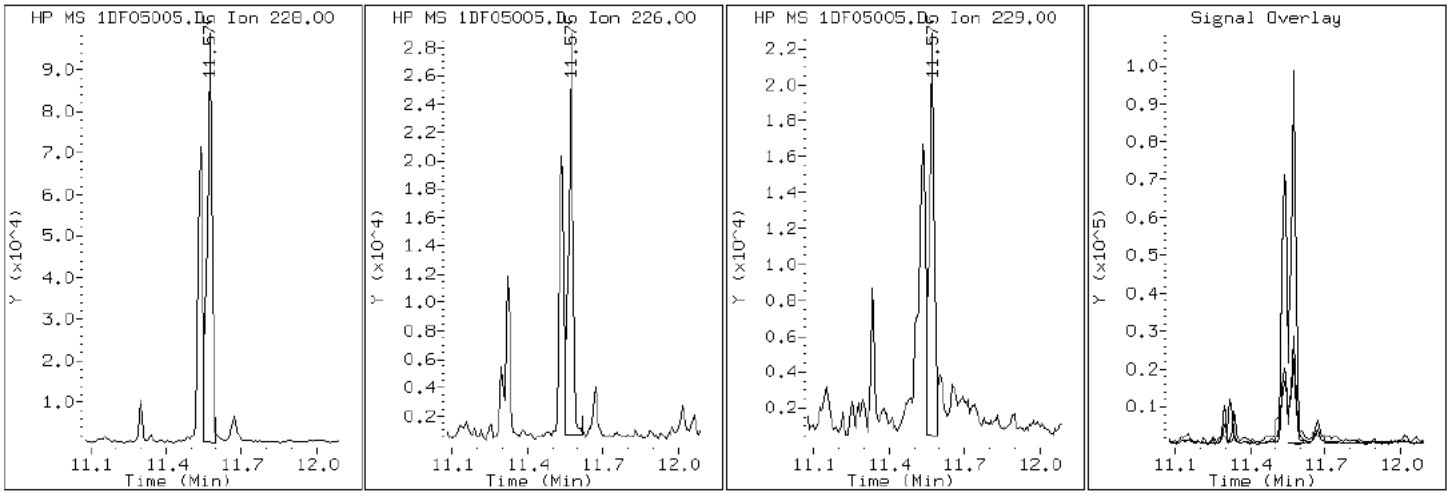
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

20 Chrysene



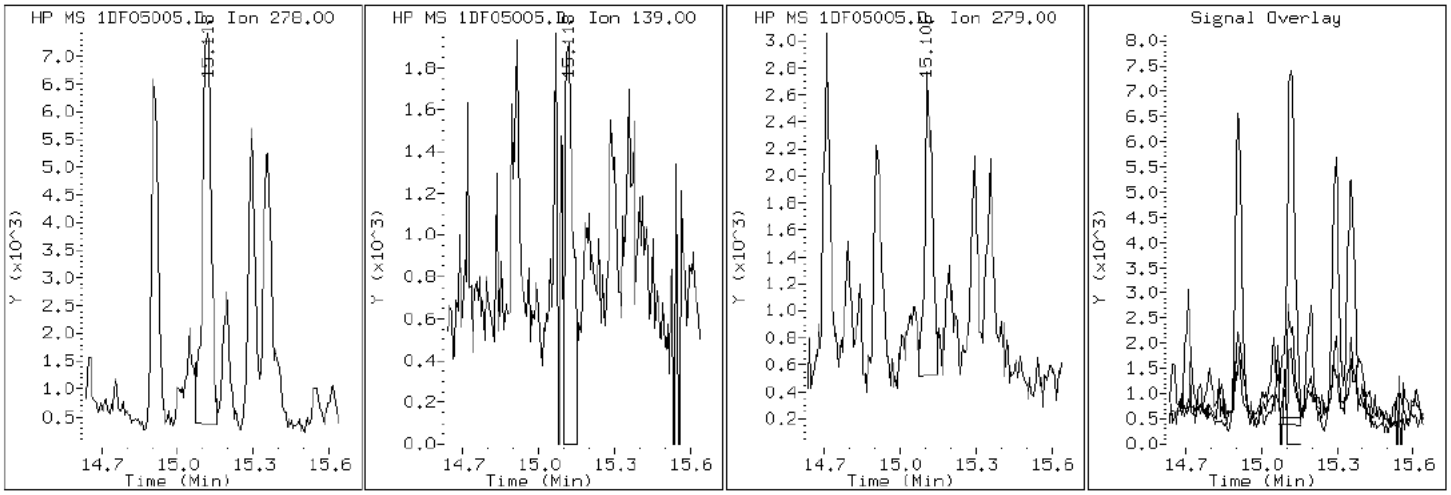
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

26 Dibenzo(a,h)anthracene



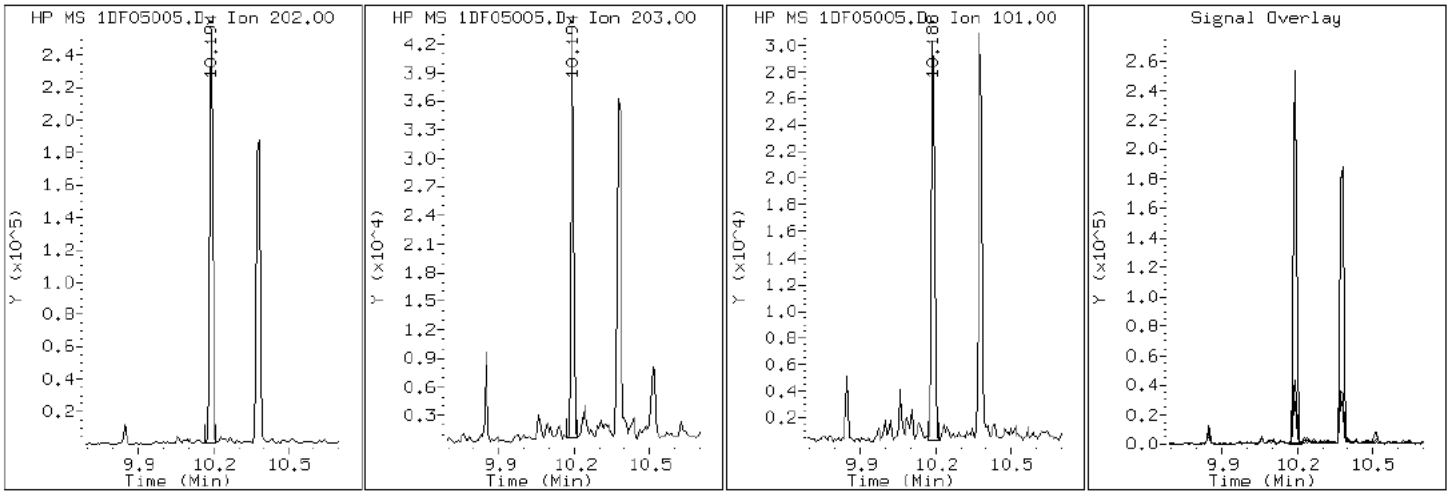
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

16 Fluoranthene



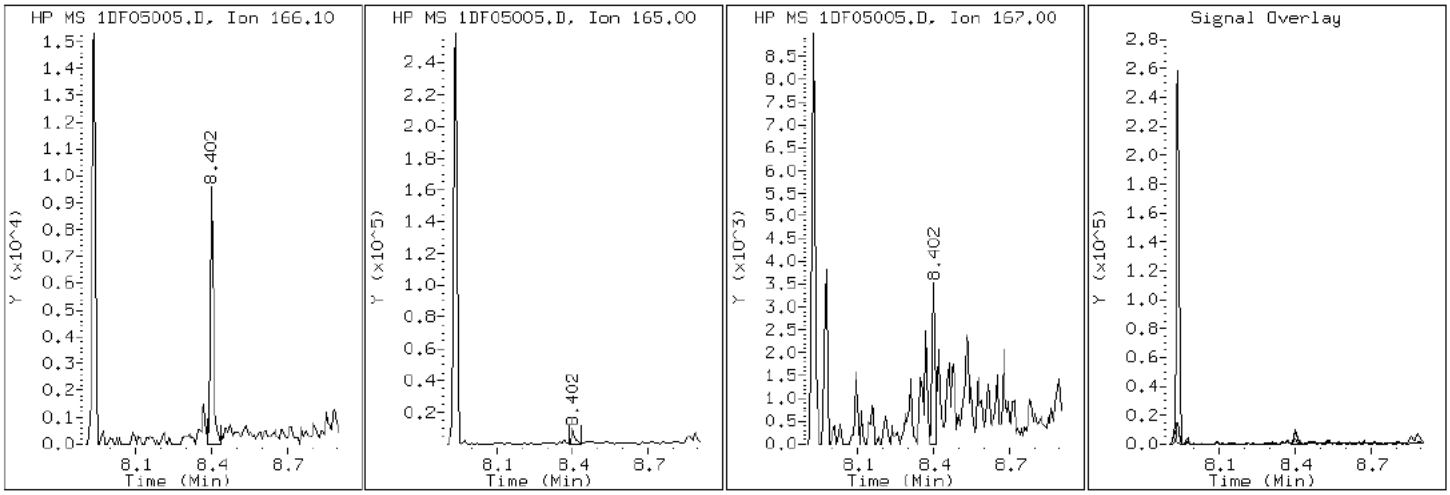
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

10 Fluorene



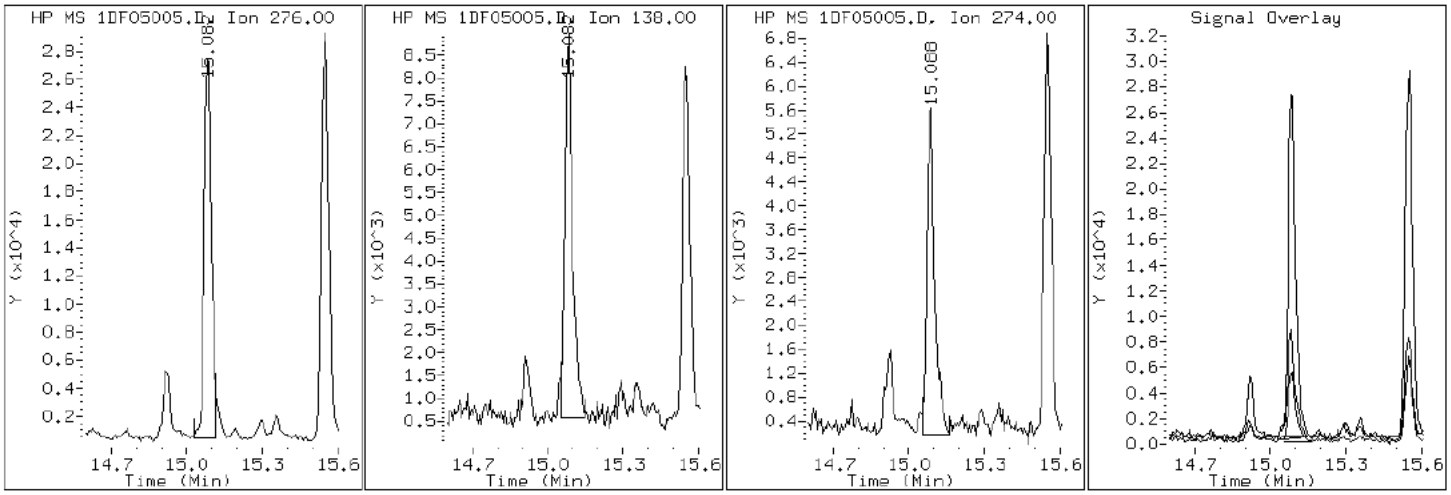
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

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



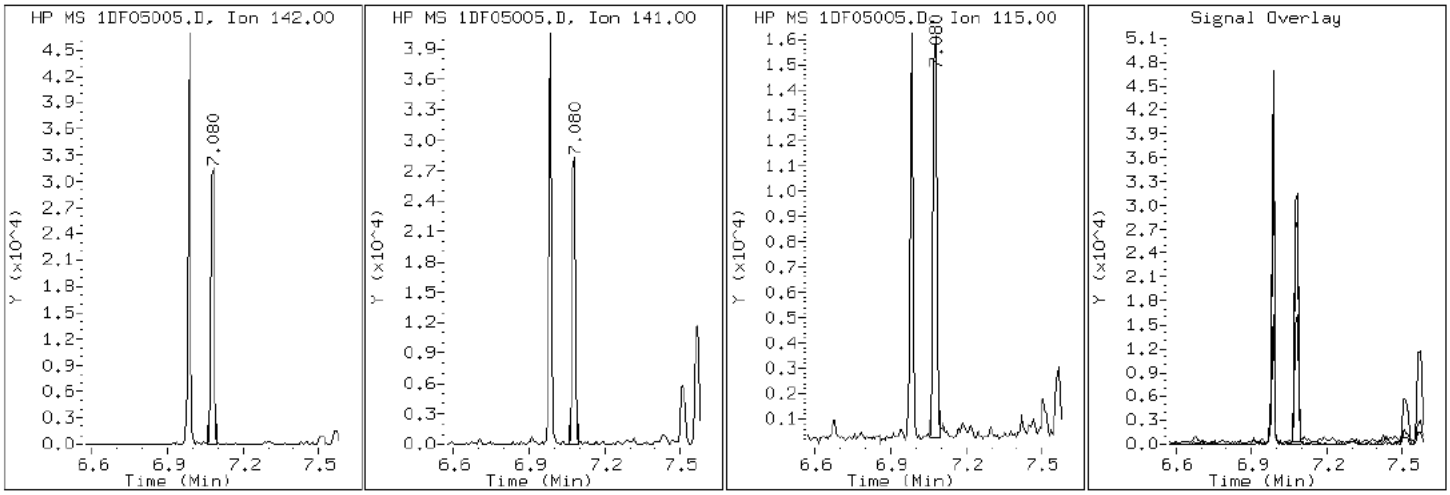
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

4 1-Methylnaphthalene



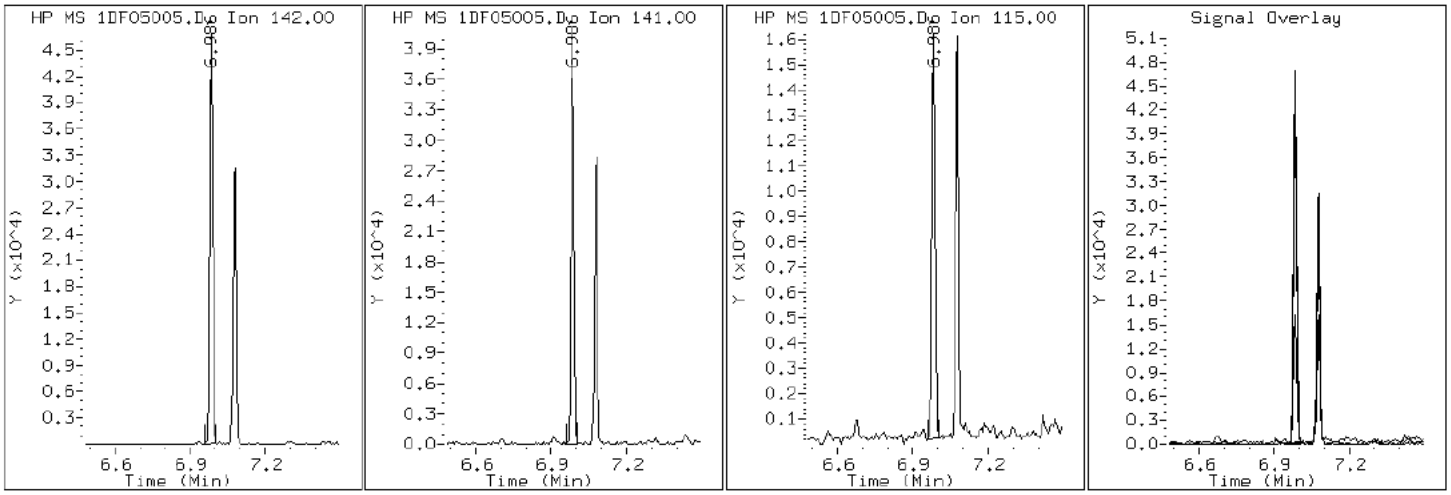
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

3 2-Methylnaphthalene



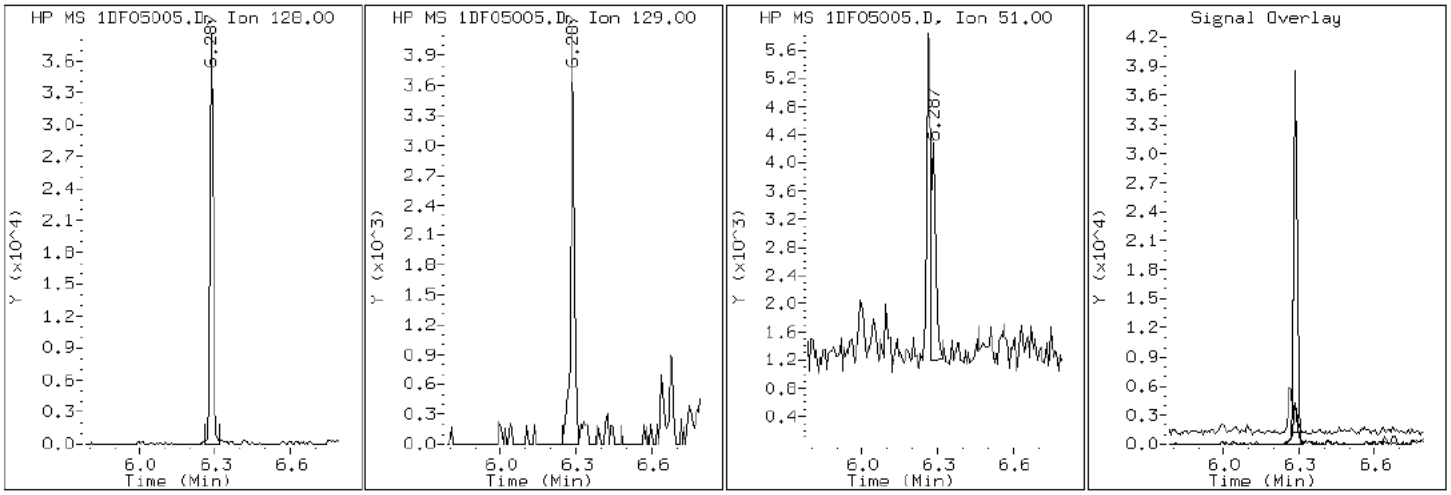
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

2 Naphthalene



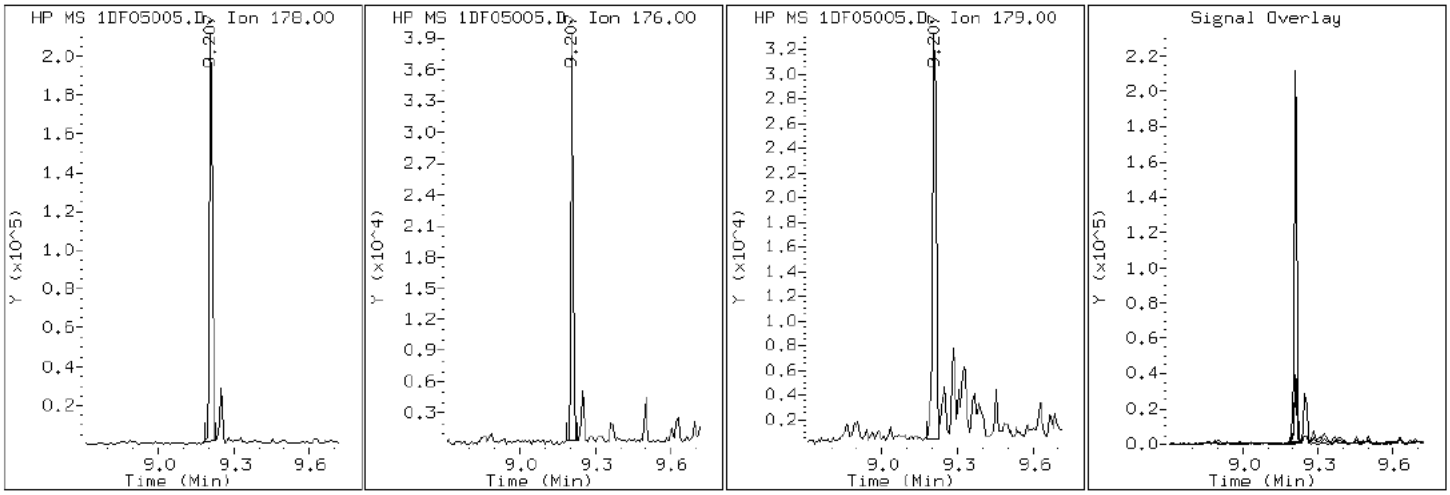
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

12 Phenanthrene



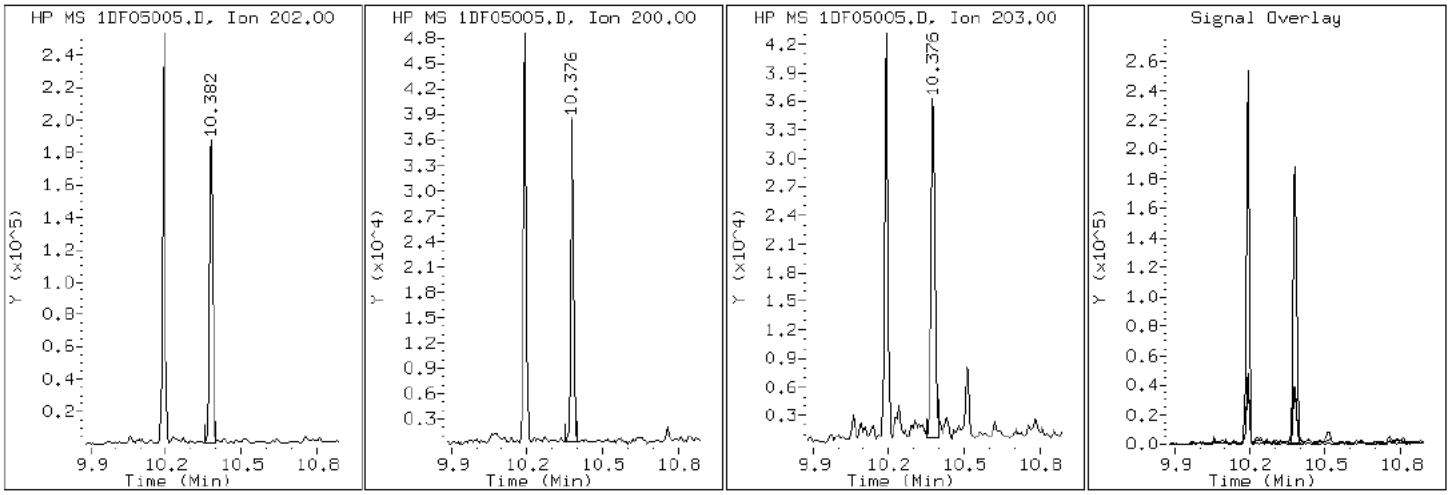
Data File: 1DF05005.D

Date: 05-JUN-2013 12:39

Client ID: CV0990D-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-21-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05005.D
Inj. Date and Time: 05-JUN-2013 12:39
Instrument ID: BSMSD.i
Client ID: CV0990D-CS
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

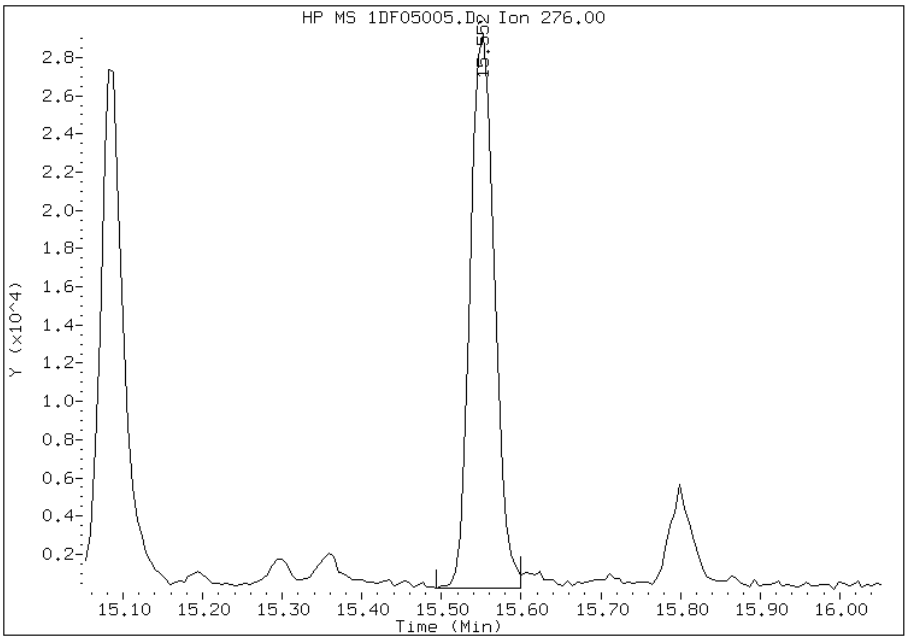
Processing Integration Results

RT: 15.55

Response: 61276

Amount: 1

Conc: 401



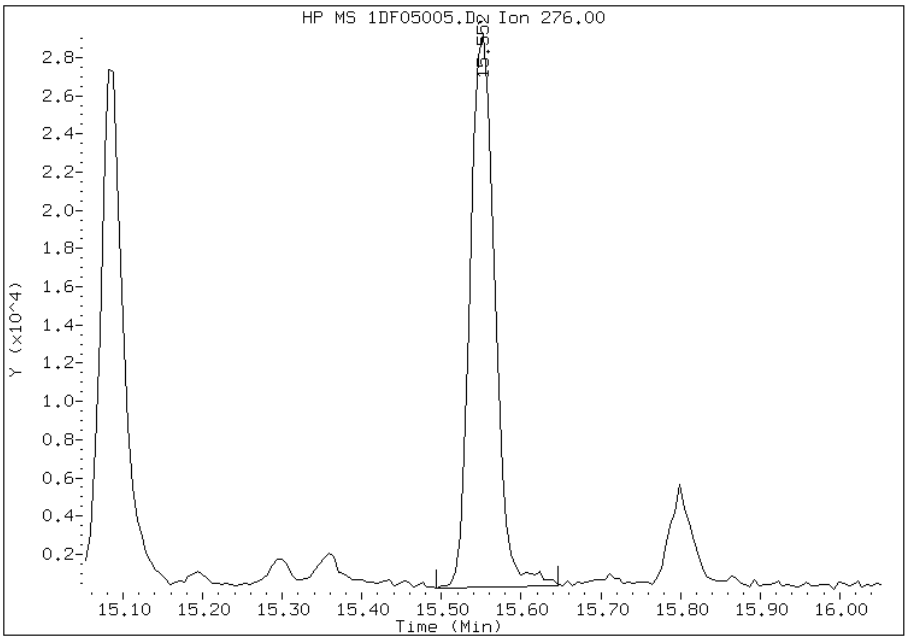
Manual Integration Results

RT: 15.55

Response: 62219

Amount: 1

Conc: 407



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DF05005.D
Inj. Date and Time: 05-JUN-2013 12:39
Instrument ID: BSMSD.i
Client ID: CV0990D-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

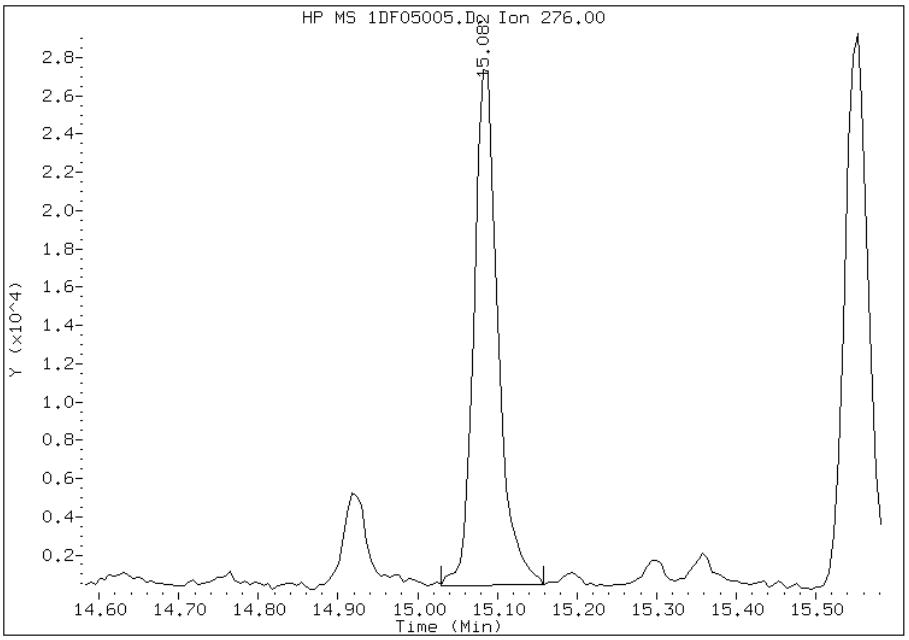
Processing Integration Results

RT: 15.08

Response: 56298

Amount: 1

Conc: 375



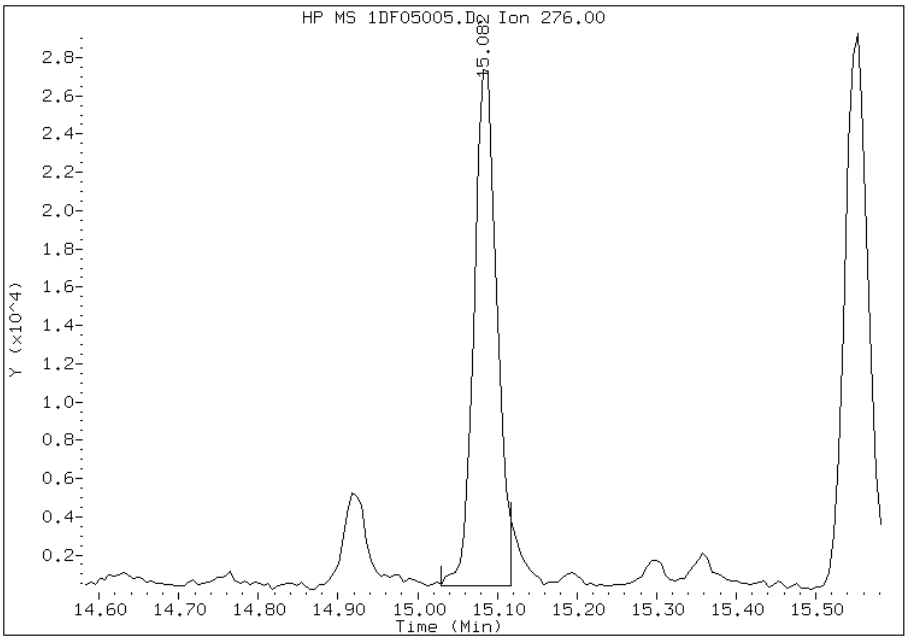
Manual Integration Results

RT: 15.08

Response: 53851

Amount: 1

Conc: 362



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV0996A-CS | Lab Sample ID: 680-90686-22

Matrix: Solid | Lab File ID: 1DF05008.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:25

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.05(g) | Date Analyzed: 06/05/2013 13:47

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	50	J	200	25
120-12-7	Anthracene	77		41	21
56-55-3	Benzo[a]anthracene	340		39	19
50-32-8	Benzo[a]pyrene	350		51	26
205-99-2	Benzo[b]fluoranthene	520		60	30
191-24-2	Benzo[g,h,i]perylene	340		98	22
207-08-9	Benzo[k]fluoranthene	200		39	18
218-01-9	Chrysene	450		44	22
53-70-3	Dibenz(a,h)anthracene	110		98	20
206-44-0	Fluoranthene	600		98	20
86-73-7	Fluorene	26	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	310		98	35
90-12-0	1-Methylnaphthalene	160	J	200	22
91-57-6	2-Methylnaphthalene	200		200	35
91-20-3	Naphthalene	150	J	200	22
85-01-8	Phenanthrene	450		39	19
129-00-0	Pyrene	570		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05008.D
Lab Smp Id: 680-90686-A-22-A Client Smp ID: CV0996A-CS
Inj Date : 05-JUN-2013 13:47
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-22-a
Misc Info : 680-90686-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 8
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	18.860	% 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	6.265	(1.000)	3132851	40.0000	
* 7	Acenaphthene-d10	164	7.934	7.934	(1.000)	1653470	40.0000	
* 11	Phenanthrene-d10	188	9.192	9.191	(1.000)	2610774	40.0000	
$ 15	o-Terphenyl	230	9.503	9.503	(1.034)	84952	2.22105	730
* 19	Chrysene-d12	240	11.554	11.553	(1.000)	2246091	40.0000	
* 24	Perylene-d12	264	13.451	13.457	(1.000)	2420191	40.0000	
2	Naphthalene	128	6.283	6.289	(1.003)	34772	0.45008	150
3	2-Methylnaphthalene	142	6.983	6.988	(1.114)	30082	0.61153	200
4	1-Methylnaphthalene	142	7.077	7.076	(1.129)	24901	0.49171	160
5	1,1'-Biphenyl	154	7.423	7.423	(0.936)	7013	0.12554	41
6	Acenaphthylene	152	7.805	7.811	(0.984)	10540	0.15374	50
9	Dibenzofuran	168	8.111	8.110	(1.022)	13444	0.22420	73
10	Fluorene	166	8.404	8.404	(1.059)	3861	0.07847	26
12	Phenanthrene	178	9.209	9.215	(1.002)	97175	1.37431	450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.251	9.256	(1.006)	16205	0.23620	77
16 Fluoranthene	202	10.191	10.196	(1.109)	133601	1.84692	600
17 Pyrene	202	10.379	10.384	(0.898)	114678	1.74388	570
18 Benzo(a)anthracene	228	11.536	11.542	(0.998)	69367	1.04062	340
20 Chrysene	228	11.577	11.583	(1.002)	83144	1.38515	450
21 Benzo(b)fluoranthene	252	12.887	12.893	(0.958)	96598	1.59321	520
22 Benzo(k)fluoranthene	252	12.923	12.934	(0.961)	38576	0.60756	200
23 Benzo(a)pyrene	252	13.352	13.363	(0.993)	58839	1.07872	350
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.102	(1.122)	50754	0.95484	310(M)
26 Dibenzo(a,h)anthracene	278	15.126	15.137	(1.124)	15549	0.34079	110
27 Benzo(g,h,i)perylene	276	15.555	15.572	(1.156)	57366	1.04389	340

QC Flag Legend

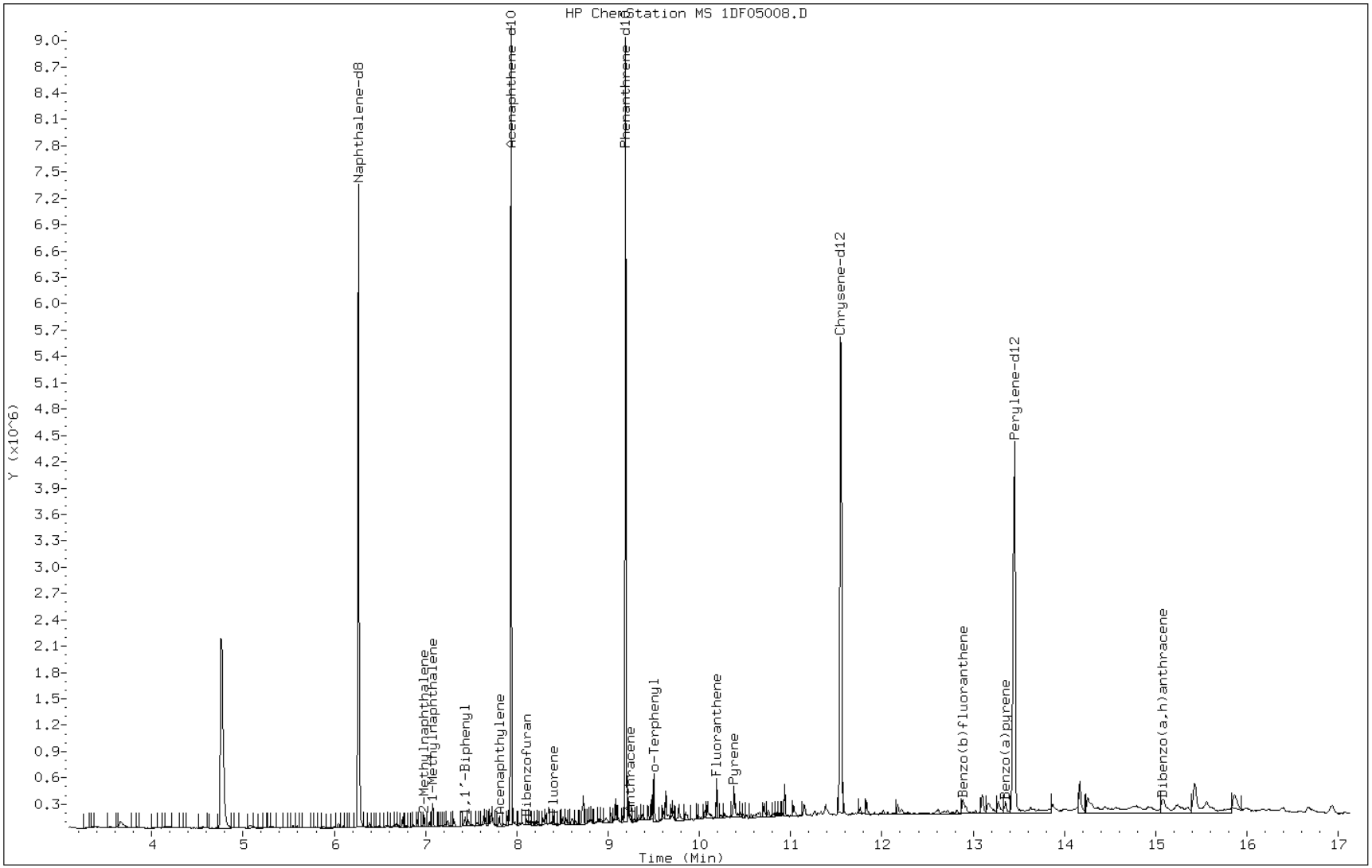
M - Compound response manually integrated.

Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC



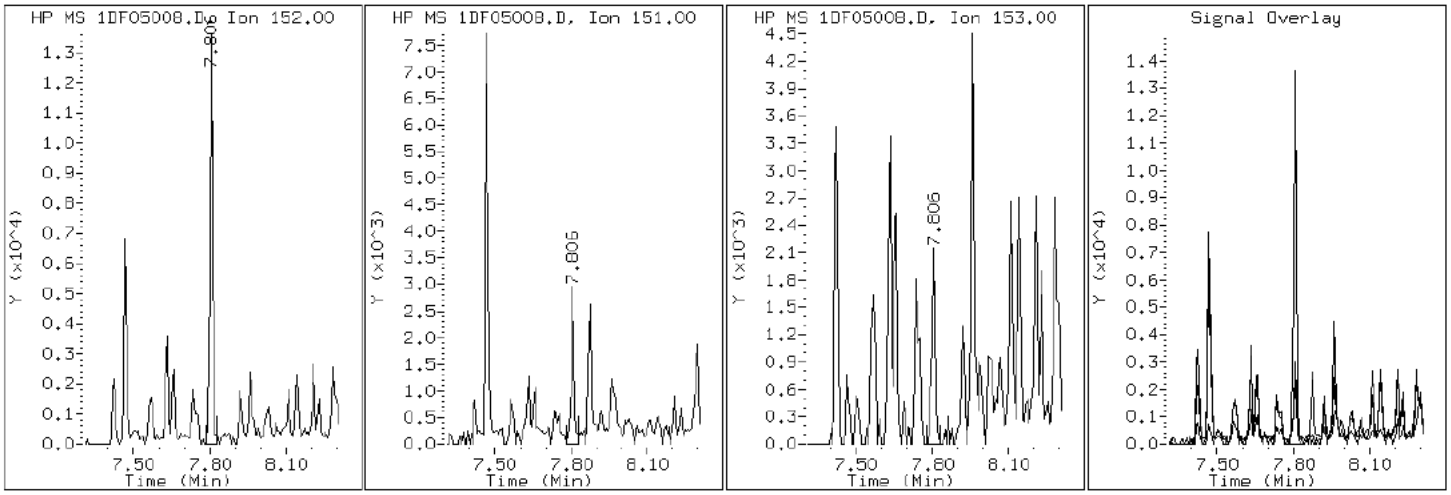
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

6 Acenaphthylene



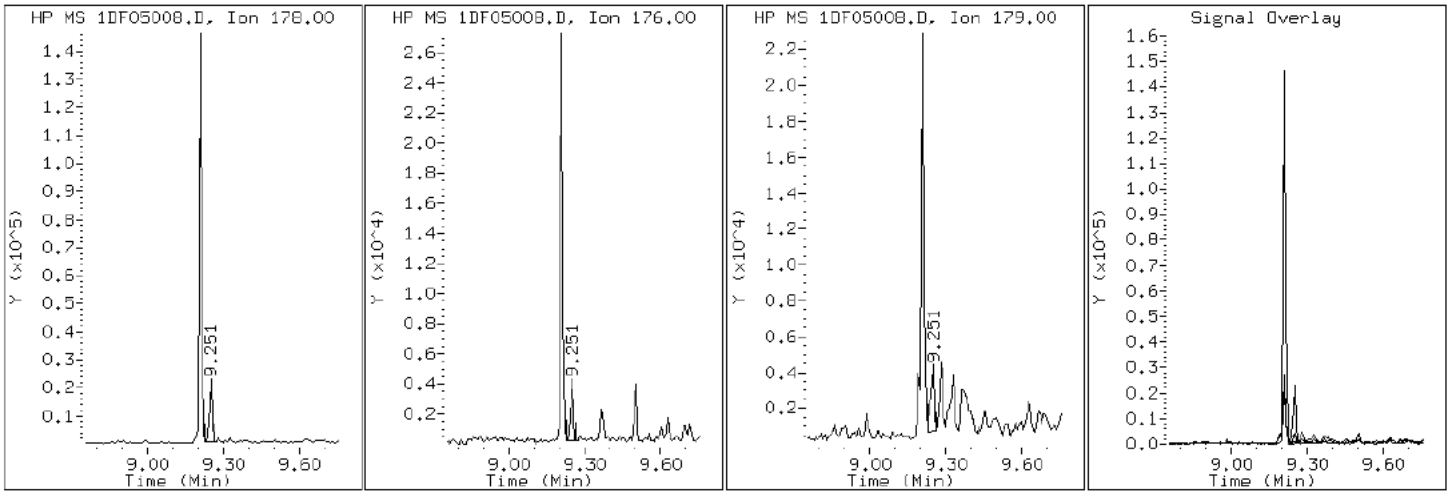
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

13 Anthracene



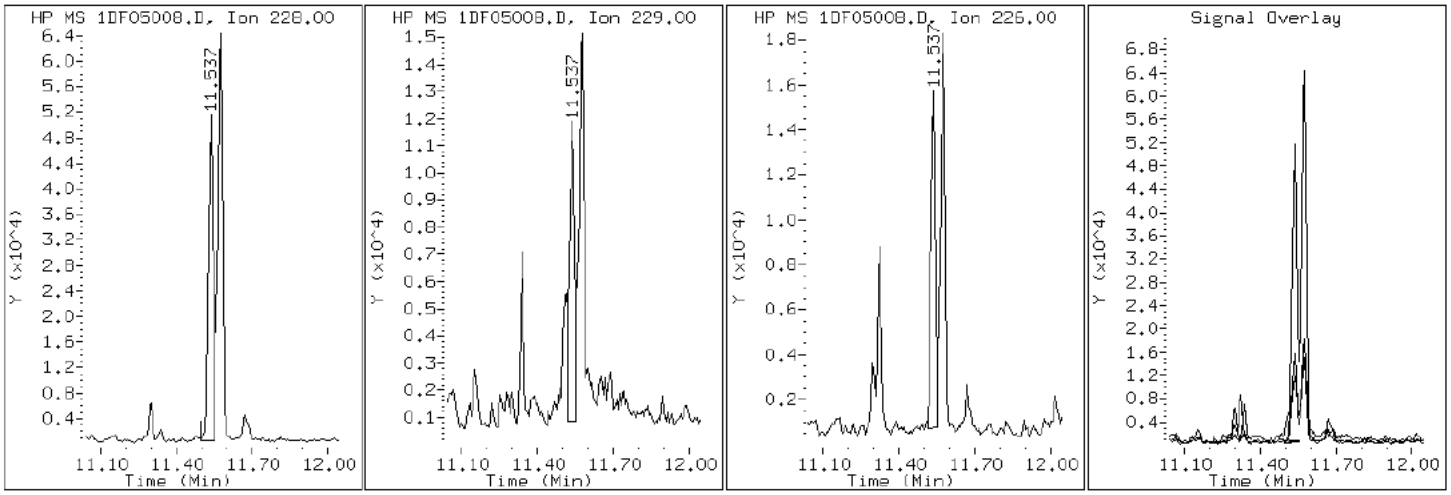
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

18 Benzo(a)anthracene



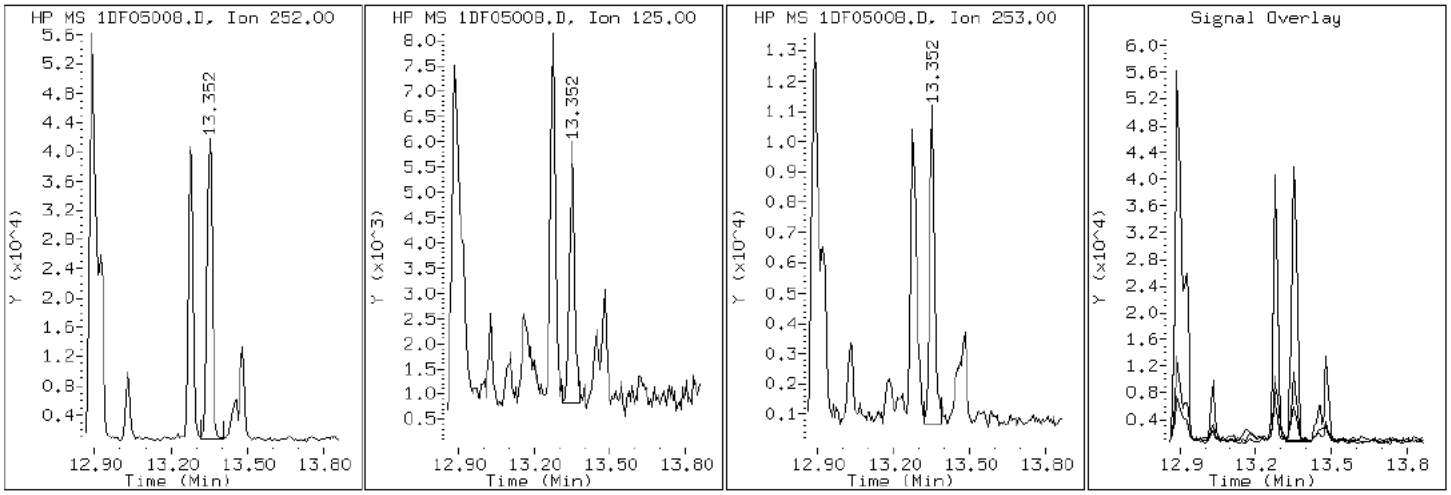
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

23 Benzo(a)pyrene



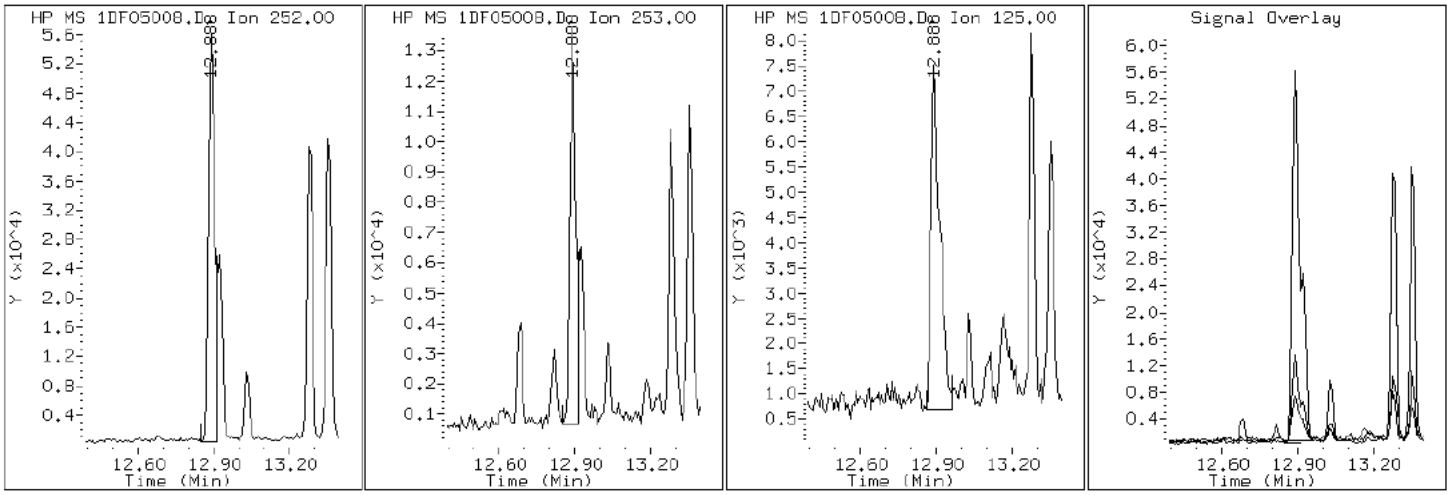
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

21 Benzo(b)fluoranthene



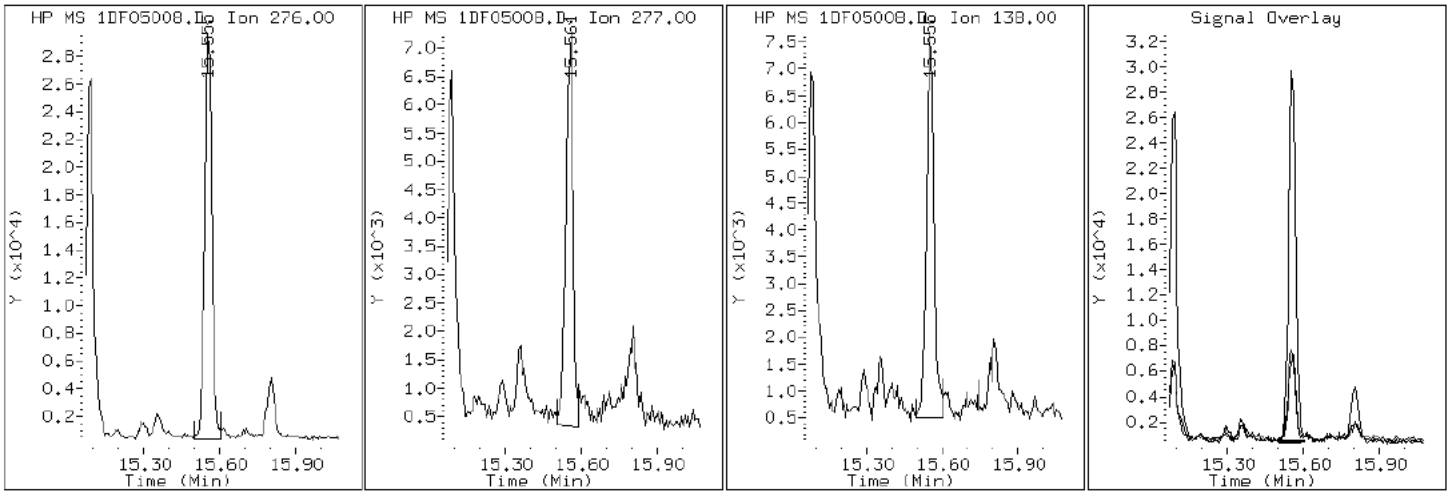
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

27 Benzo(g,h,i)perylene



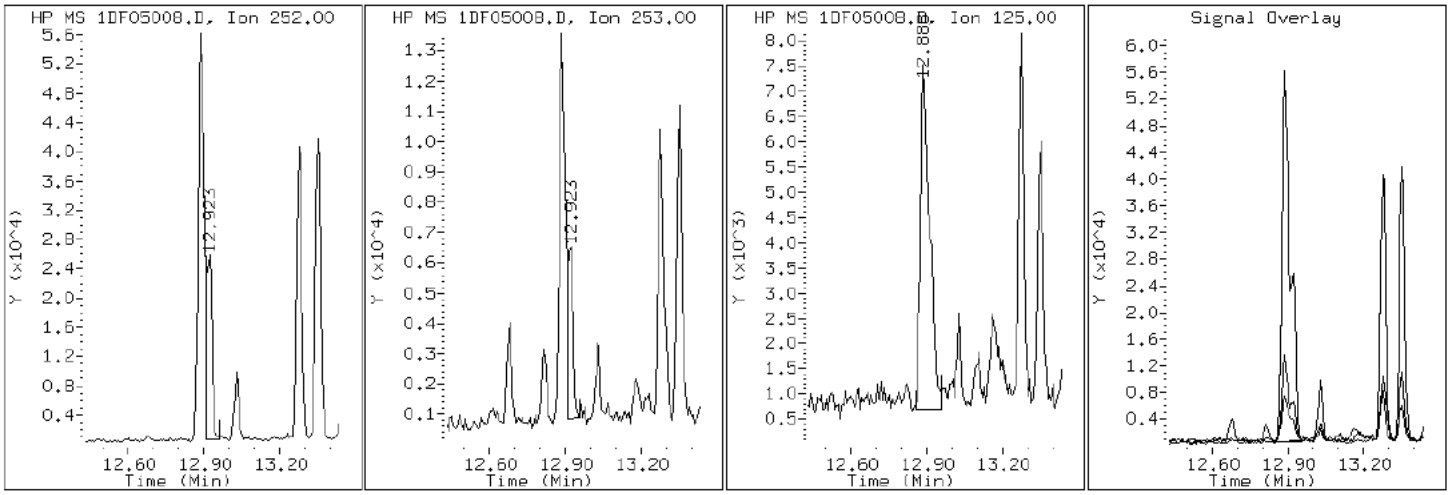
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

22 Benzo(k)fluoranthene



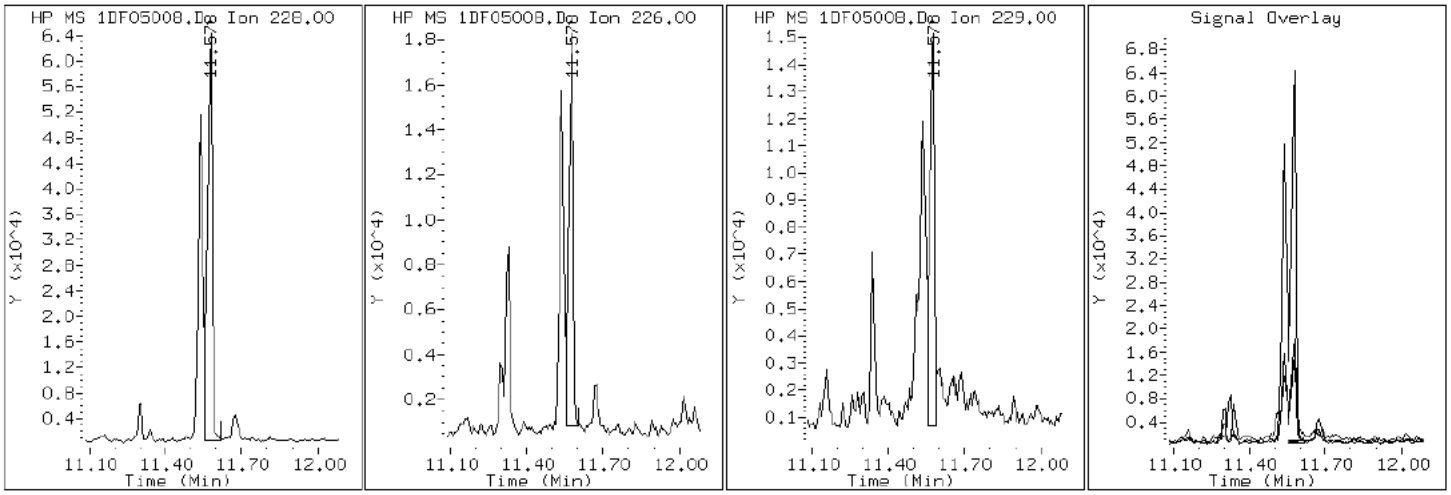
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

20 Chrysene



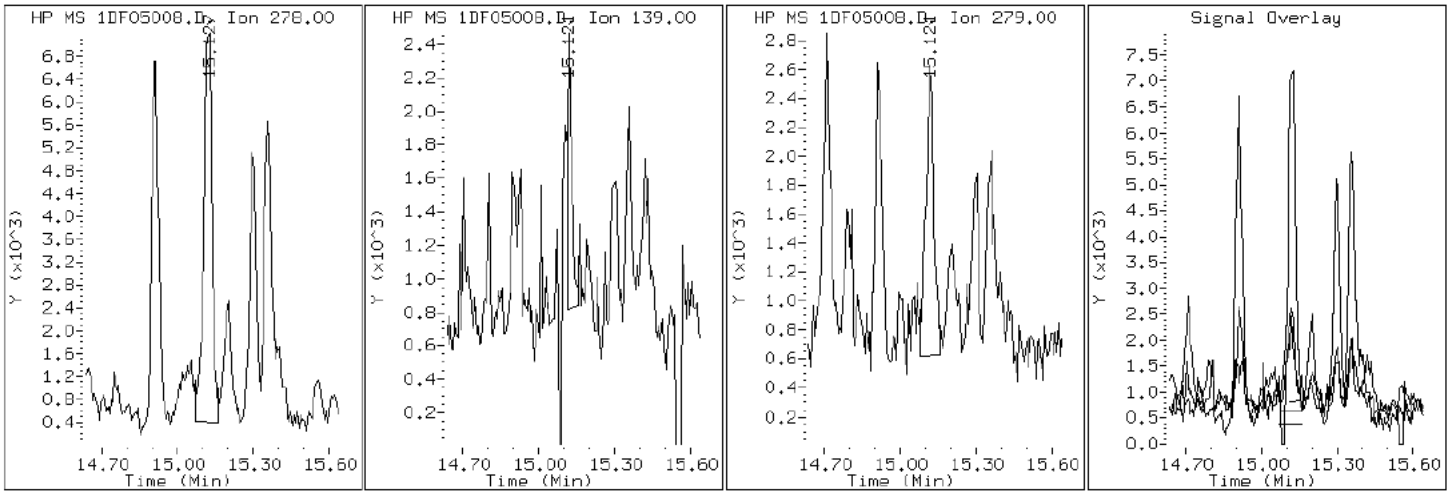
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

26 Dibenzo(a,h)anthracene



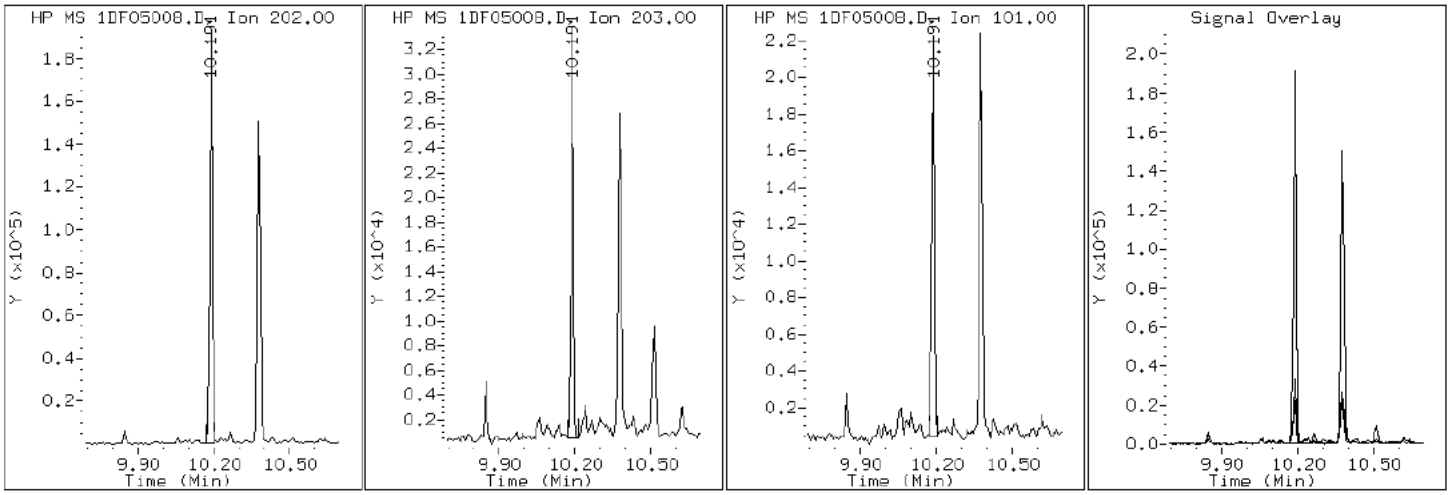
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

16 Fluoranthene



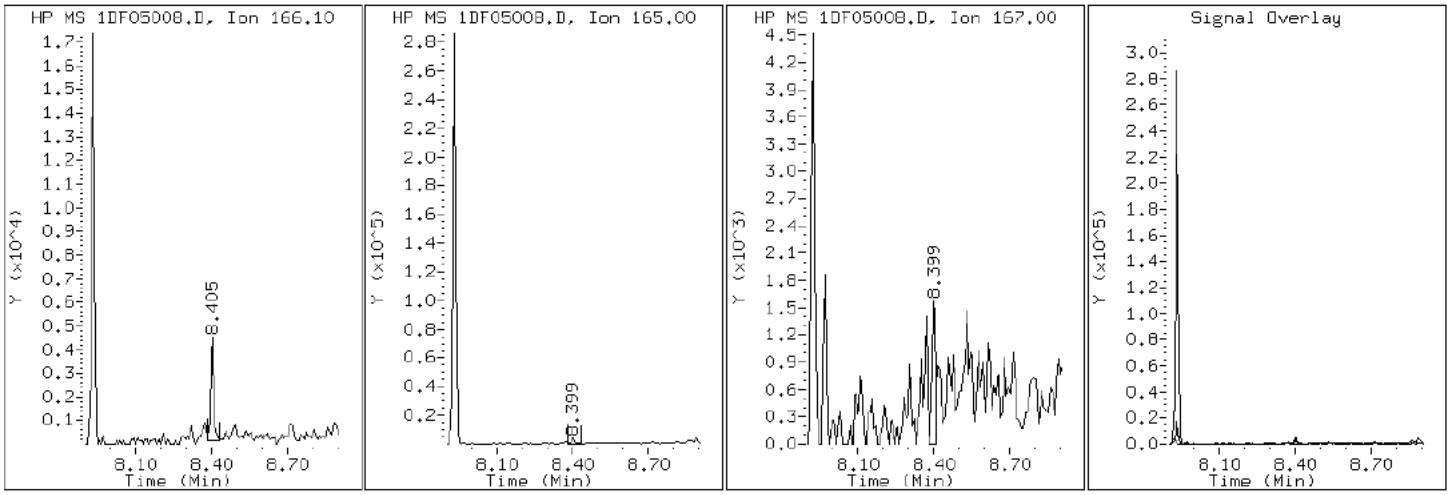
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

10 Fluorene



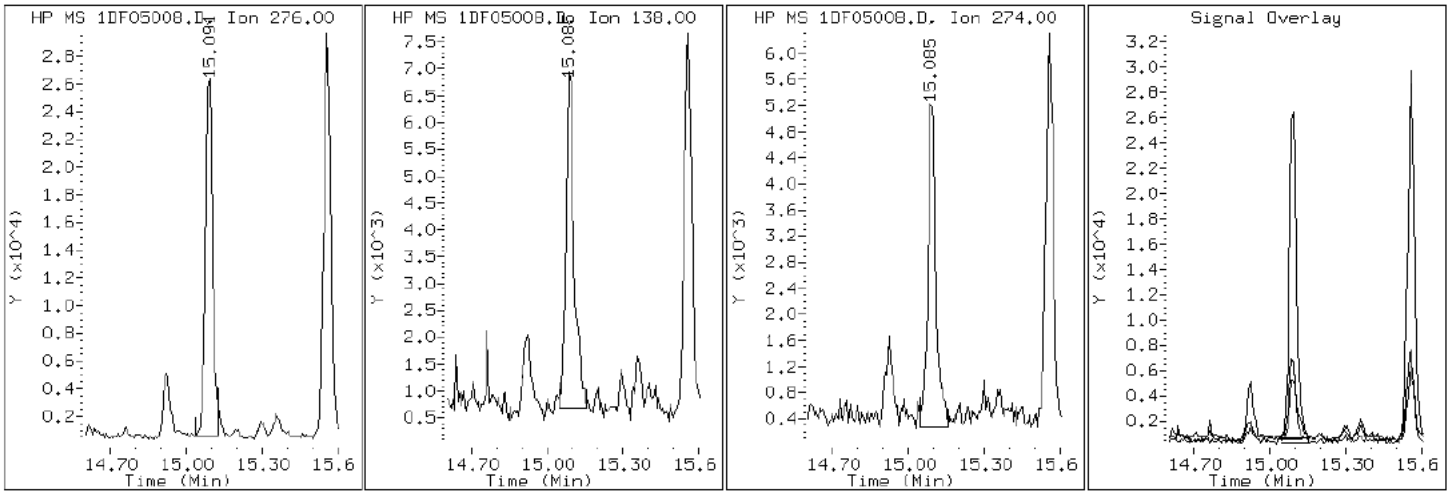
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

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



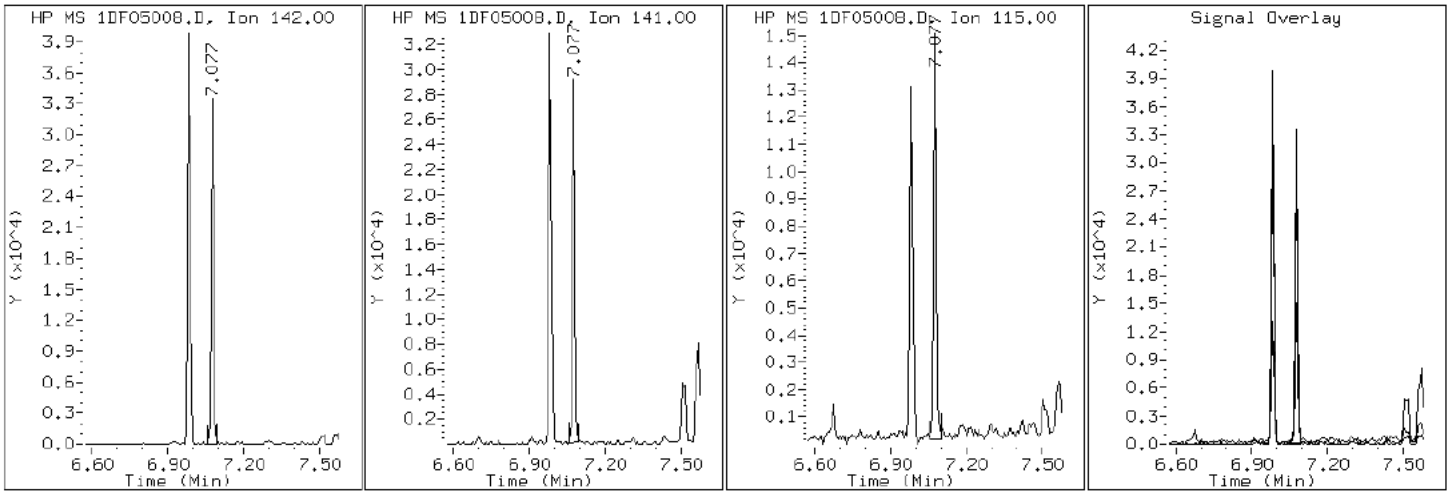
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

4 1-Methylnaphthalene



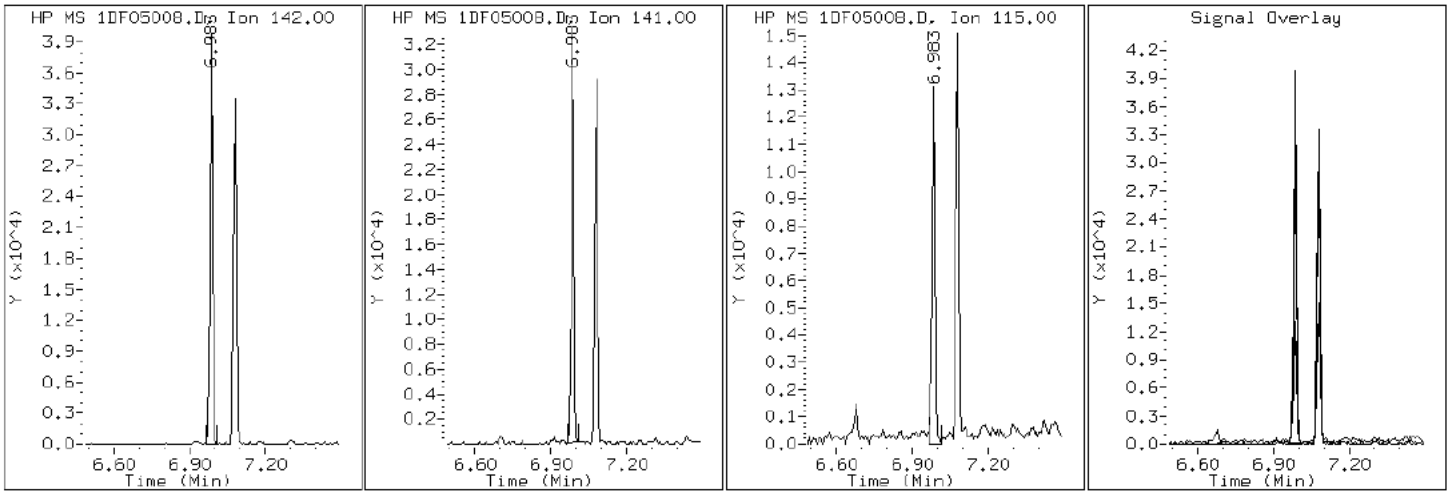
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

3 2-Methylnaphthalene



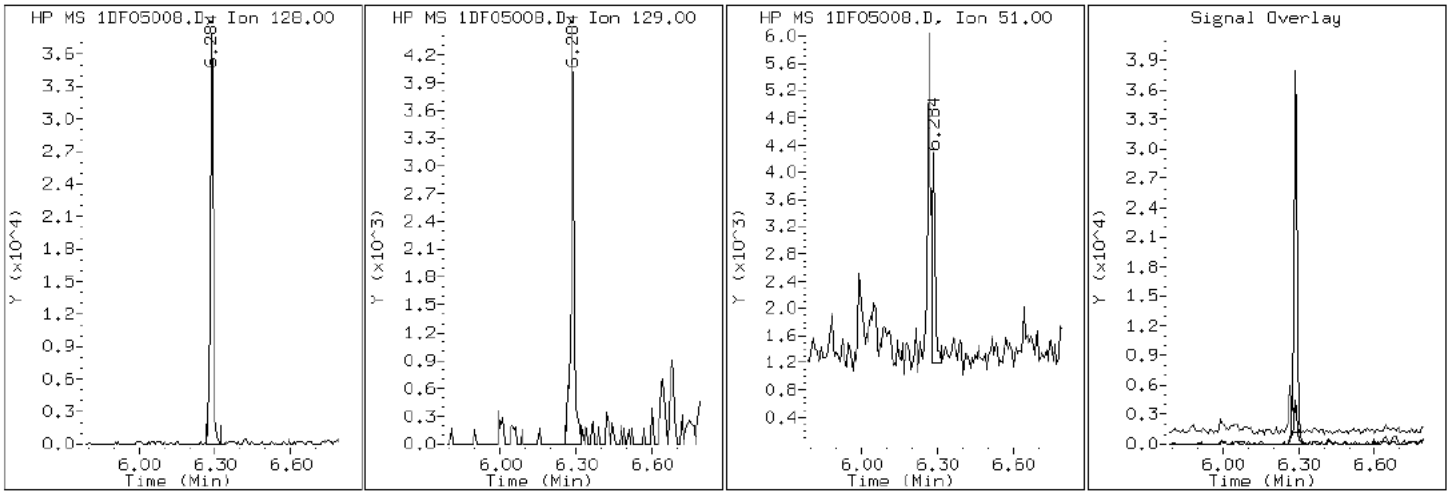
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

2 Naphthalene



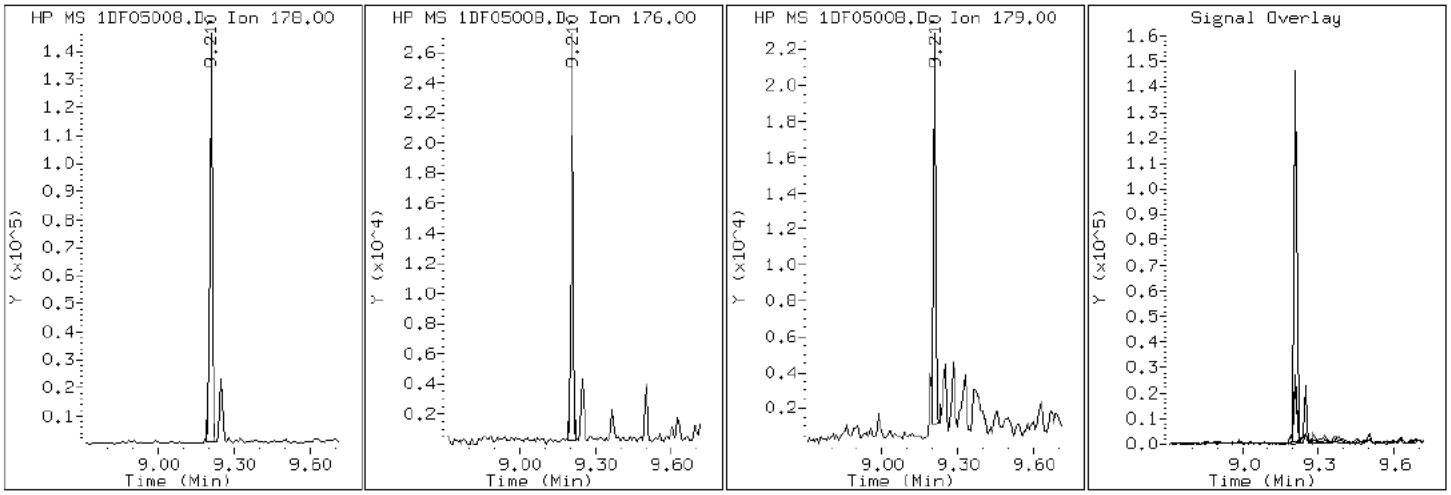
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

12 Phenanthrene



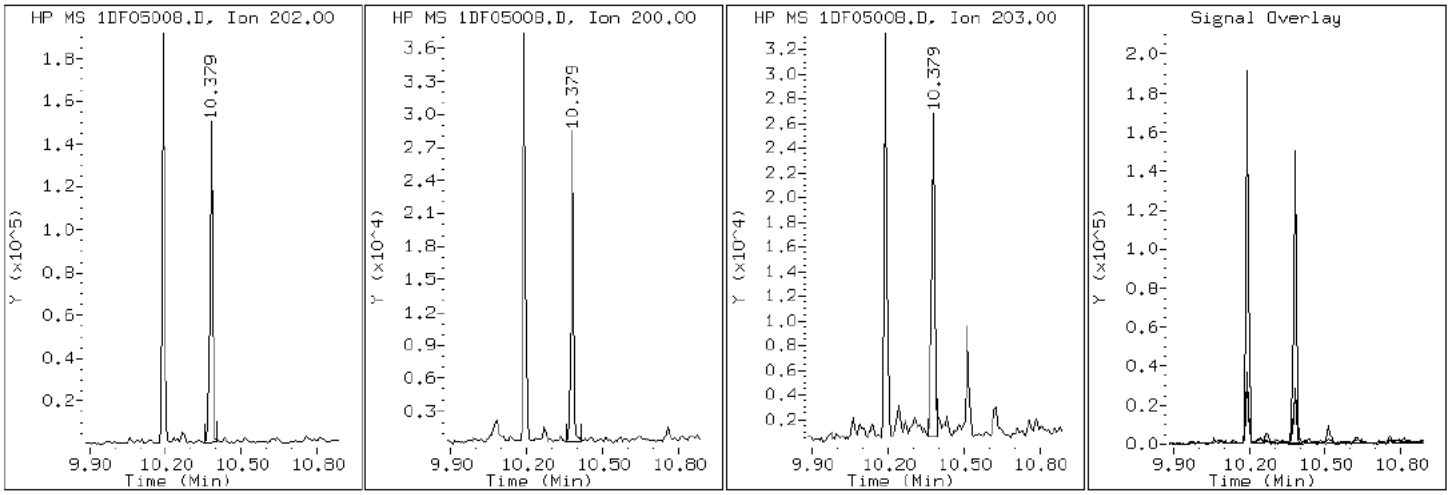
Data File: 1DF05008.D

Date: 05-JUN-2013 13:47

Client ID: CV0996A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-22-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05008.D
Inj. Date and Time: 05-JUN-2013 13:47
Instrument ID: BSMSD.i
Client ID: CV0996A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

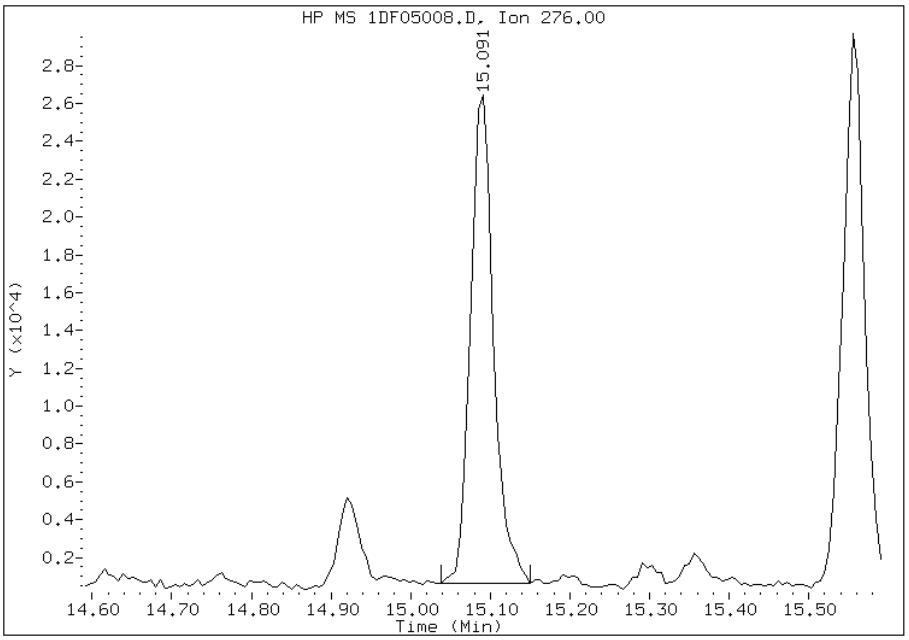
Processing Integration Results

RT: 15.09

Response: 51810

Amount: 1

Conc: 318



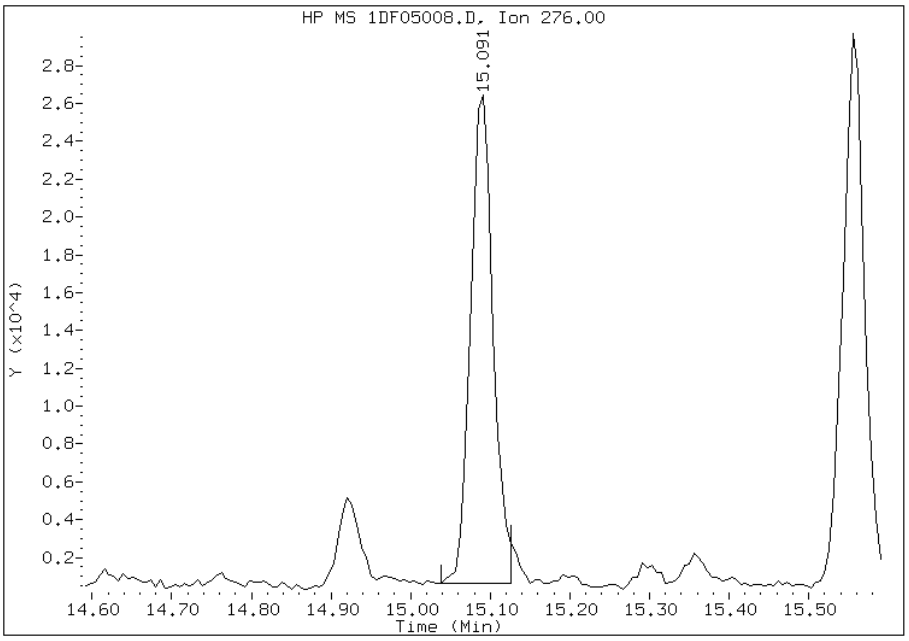
Manual Integration Results

RT: 15.09

Response: 50754

Amount: 1

Conc: 313



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV1002A-CS | Lab Sample ID: 680-90686-23

Matrix: Solid | Lab File ID: 1DF05011.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:55

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.20(g) | Date Analyzed: 06/05/2013 14:55

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

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

% Moisture: 24.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	160	J	210	26
120-12-7	Anthracene	150		44	22
56-55-3	Benzo[a]anthracene	380		42	20
50-32-8	Benzo[a]pyrene	420		55	27
205-99-2	Benzo[b]fluoranthene	640		64	32
191-24-2	Benzo[g,h,i]perylene	400		110	23
207-08-9	Benzo[k]fluoranthene	250		42	19
218-01-9	Chrysene	560		47	24
53-70-3	Dibenz(a,h)anthracene	140		110	22
206-44-0	Fluoranthene	700		110	21
86-73-7	Fluorene	28	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	350		110	37
90-12-0	1-Methylnaphthalene	140	J	210	23
91-57-6	2-Methylnaphthalene	170	J	210	37
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	480		42	20
129-00-0	Pyrene	640		110	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05011.D
Lab Smp Id: 680-90686-A-23-A Client Smp ID: CV1002A-CS
Inj Date : 05-JUN-2013 14:55
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-23-a
Misc Info : 680-90686-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	24.824	% 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	6.265	(1.000)	3255916	40.0000	
* 7	Acenaphthene-d10	164	7.937	7.934	(1.000)	1752419	40.0000	
* 11	Phenanthrene-d10	188	9.194	9.191	(1.000)	2798199	40.0000	
$ 15	o-Terphenyl	230	9.500	9.503	(1.033)	78630	1.91807	670
* 19	Chrysene-d12	240	11.556	11.553	(1.000)	2480573	40.0000	
* 24	Perylene-d12	264	13.460	13.457	(1.000)	2934674	40.0000	
2	Naphthalene	128	6.286	6.289	(1.003)	29334	0.36534	130
3	2-Methylnaphthalene	142	6.985	6.988	(1.114)	24979	0.48860	170
4	1-Methylnaphthalene	142	7.079	7.076	(1.129)	21725	0.41278	140
5	1,1'-Biphenyl	154	7.420	7.423	(0.935)	5458	0.09219	32
6	Acenaphthylene	152	7.808	7.811	(0.984)	34132	0.46976	160
9	Dibenzofuran	168	8.107	8.110	(1.021)	12084	0.19014	66
10	Fluorene	166	8.401	8.404	(1.058)	4176	0.08007	28
12	Phenanthrene	178	9.212	9.215	(1.002)	103838	1.37018	480

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.253	9.256	(1.006)	31697	0.43107	150
16 Fluoranthene	202	10.193	10.196	(1.109)	154006	1.98640	700
17 Pyrene	202	10.381	10.384	(0.898)	132476	1.82410	640
18 Benzo(a)anthracene	228	11.539	11.542	(0.998)	80002	1.08672	380
20 Chrysene	228	11.580	11.583	(1.002)	106771	1.61063	560
21 Benzo(b)fluoranthene	252	12.896	12.893	(0.958)	135337	1.84082	640
22 Benzo(k)fluoranthene	252	12.925	12.934	(0.960)	54620	0.70944	250
23 Benzo(a)pyrene	252	13.360	13.363	(0.993)	80871	1.20957	420
25 Indeno(1,2,3-cd)pyrene	276	15.099	15.102	(1.122)	65468	1.00629	350(M)
26 Dibenzo(a,h)anthracene	278	15.129	15.137	(1.124)	23334	0.40465	140
27 Benzo(g,h,i)perylene	276	15.569	15.572	(1.157)	76161	1.14294	400

QC Flag Legend

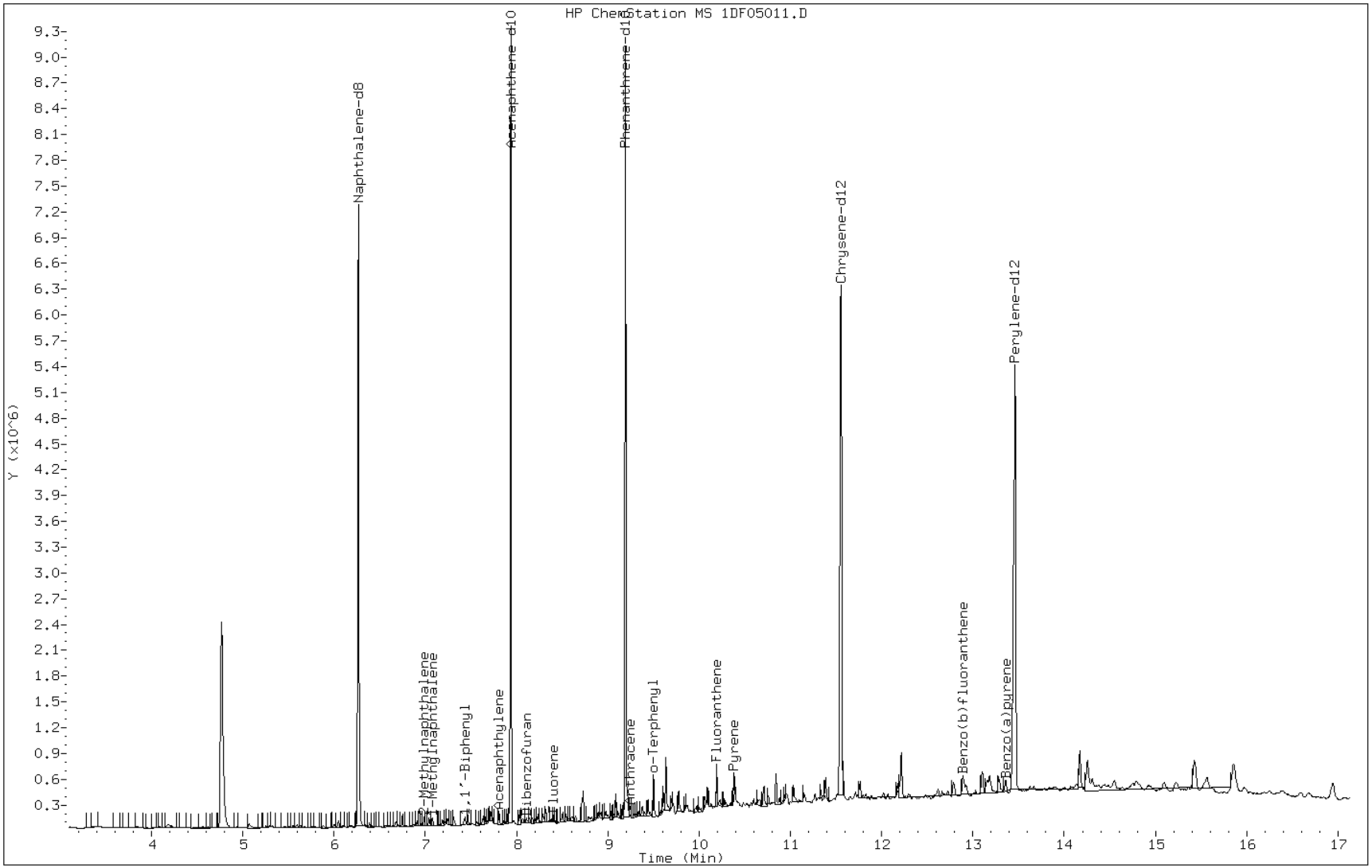
M - Compound response manually integrated.

Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC



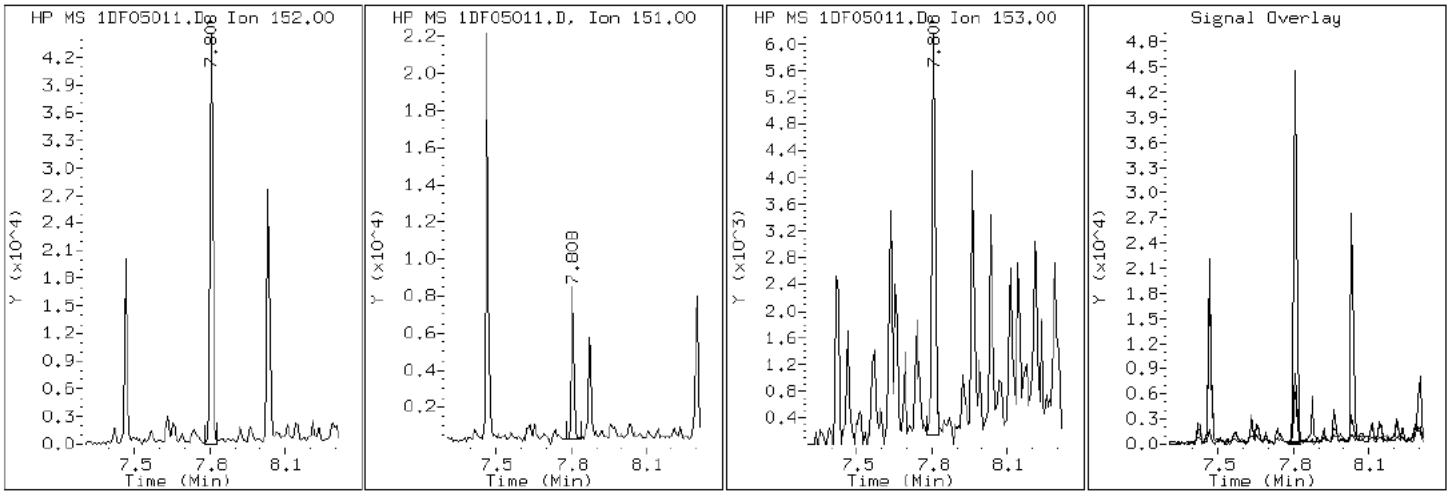
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

6 Acenaphthylene



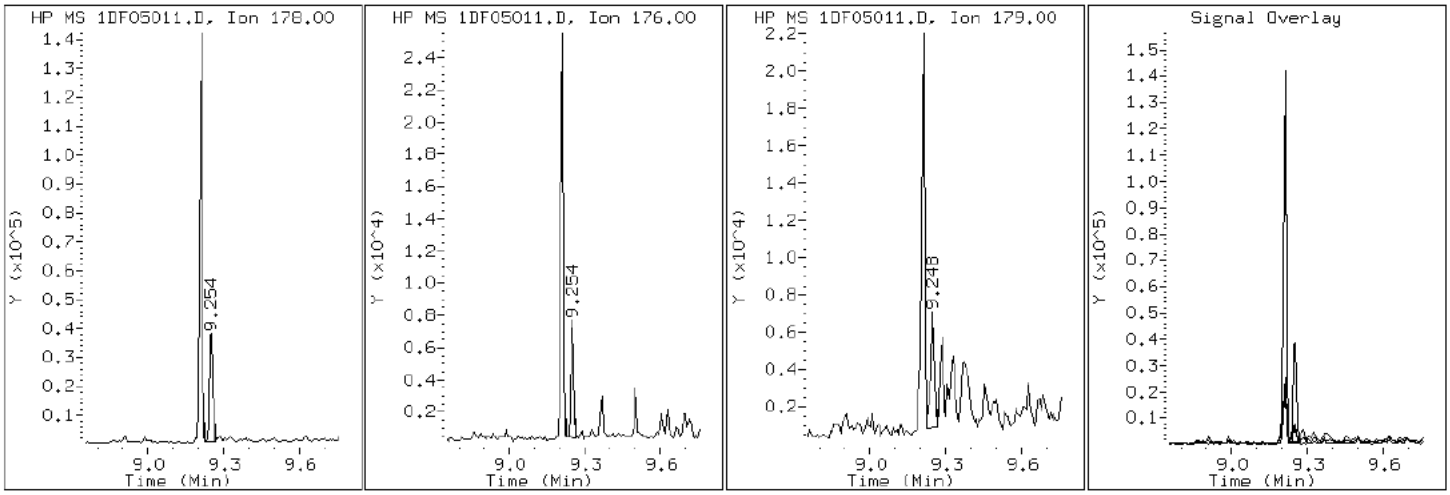
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

13 Anthracene



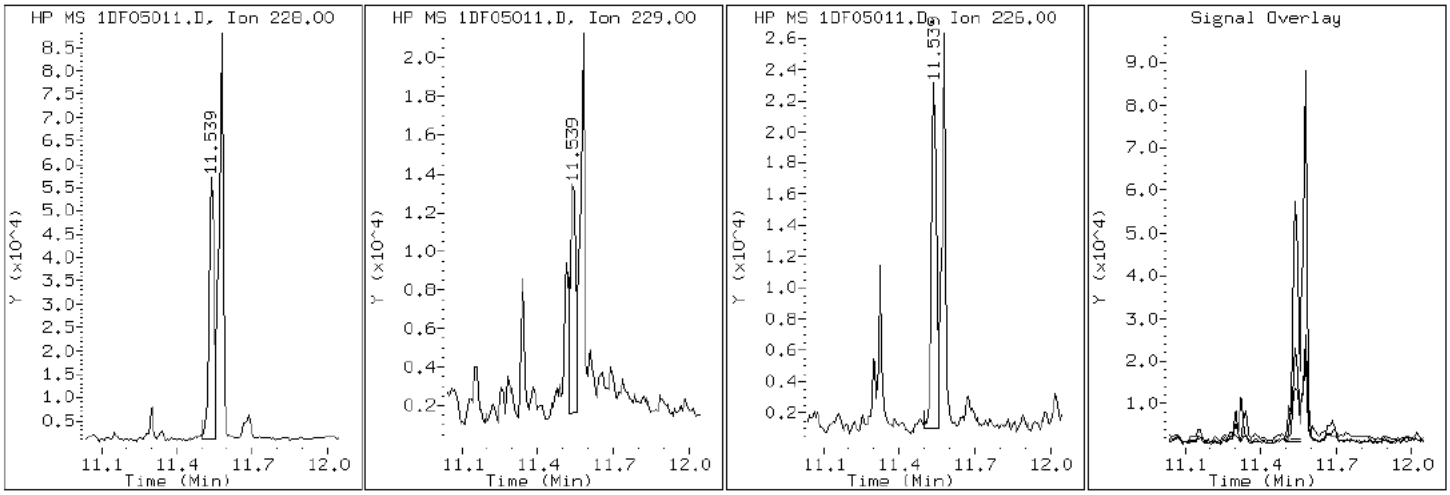
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

18 Benzo(a)anthracene



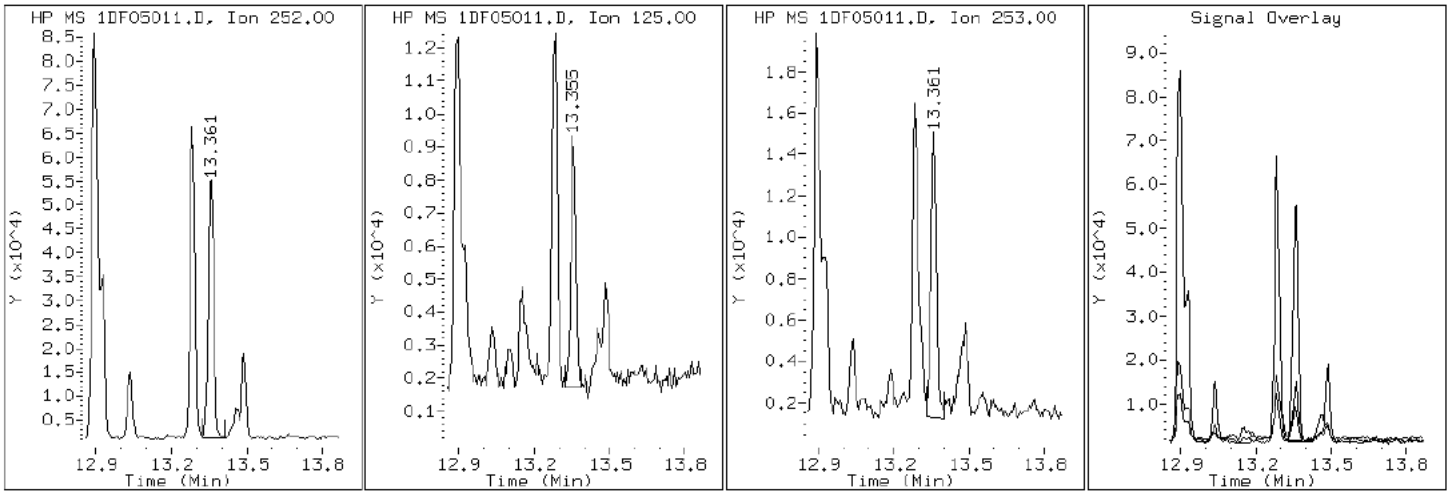
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

23 Benzo(a)pyrene



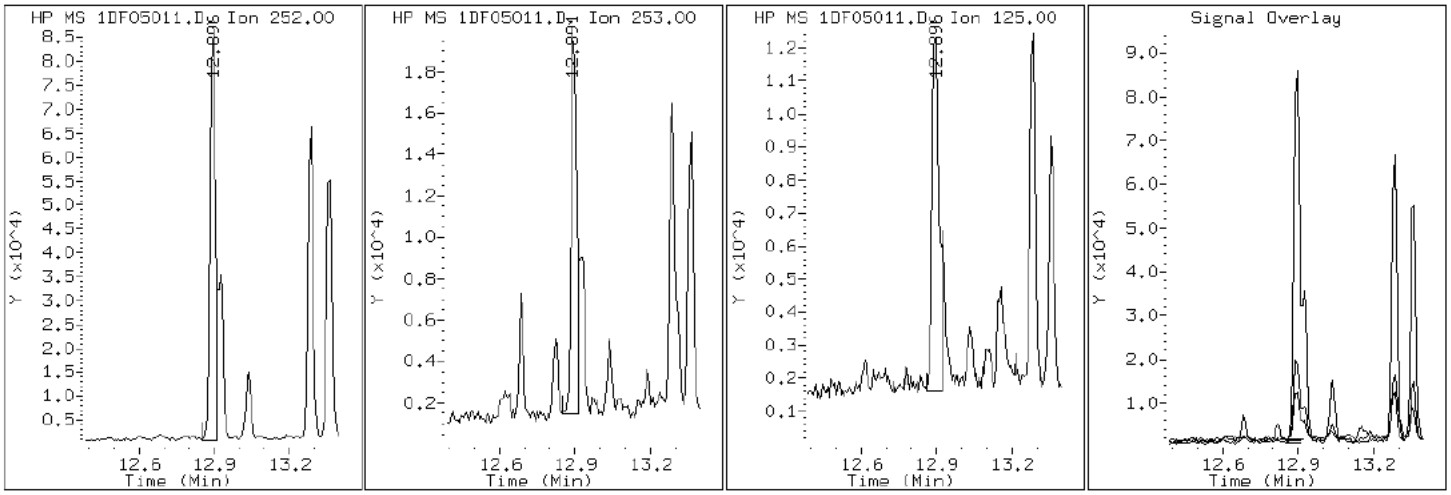
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

21 Benzo(b)fluoranthene



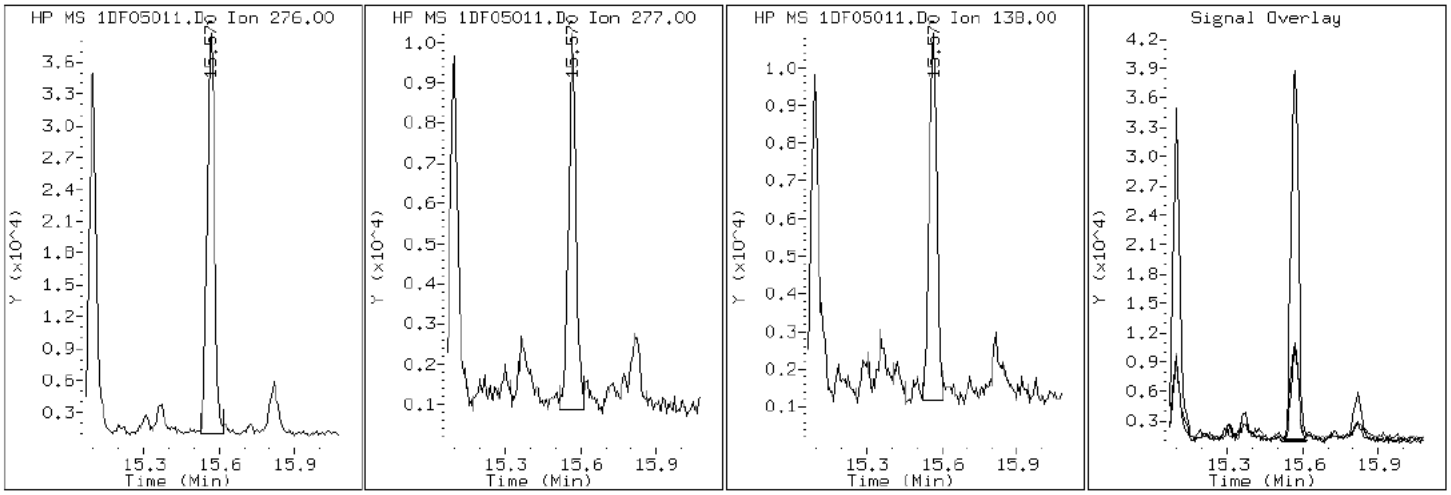
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

27 Benzo(g,h,i)perylene



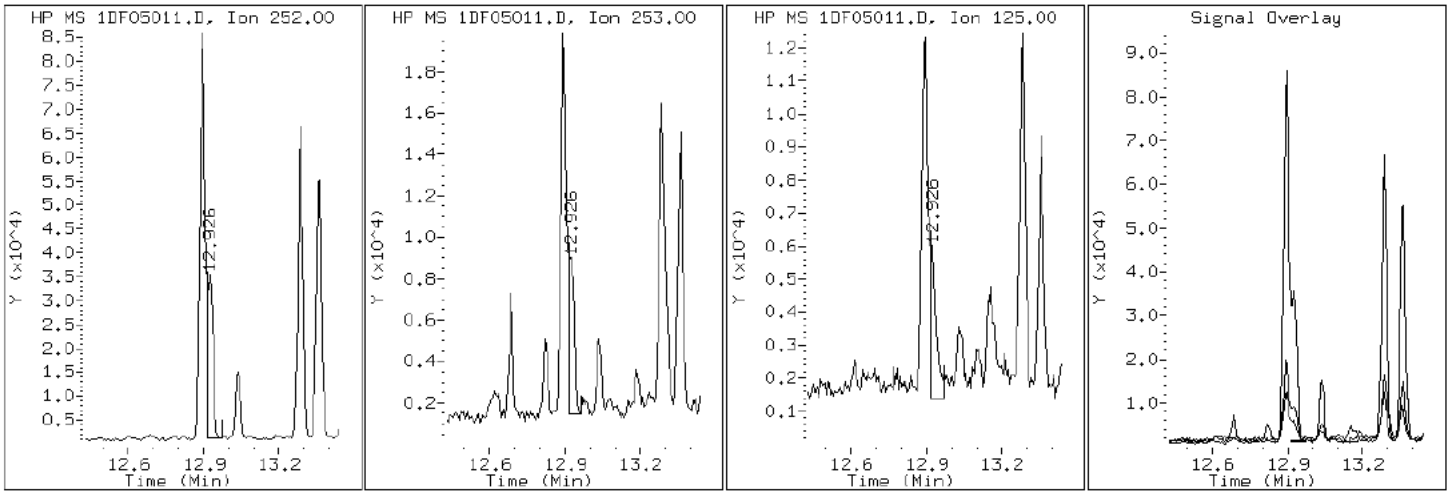
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

22 Benzo(k)fluoranthene



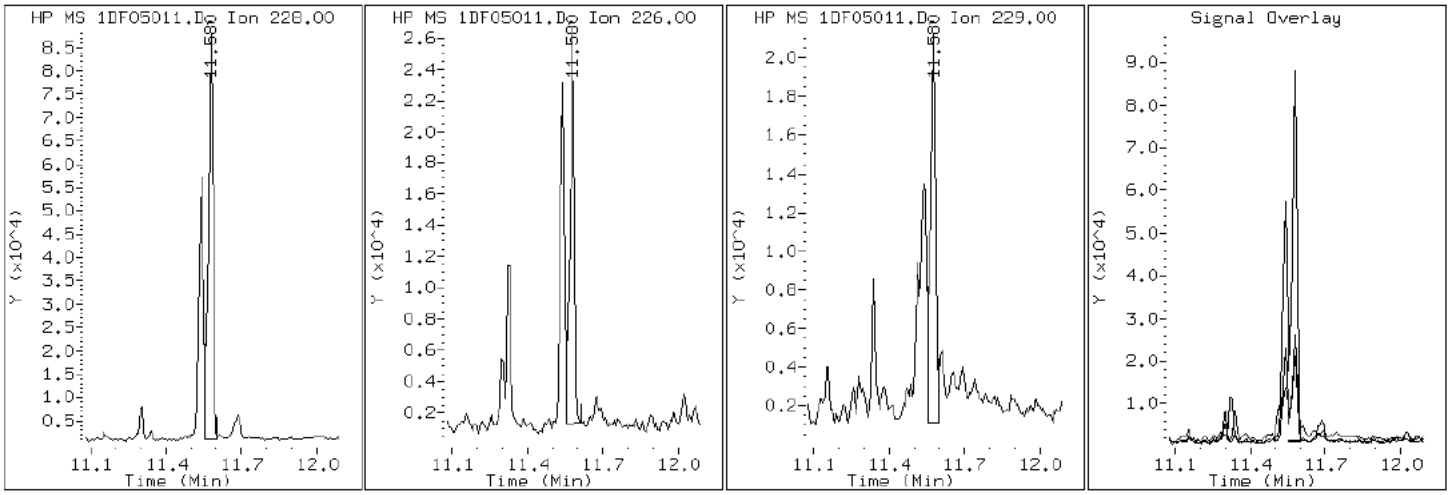
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

20 Chrysene



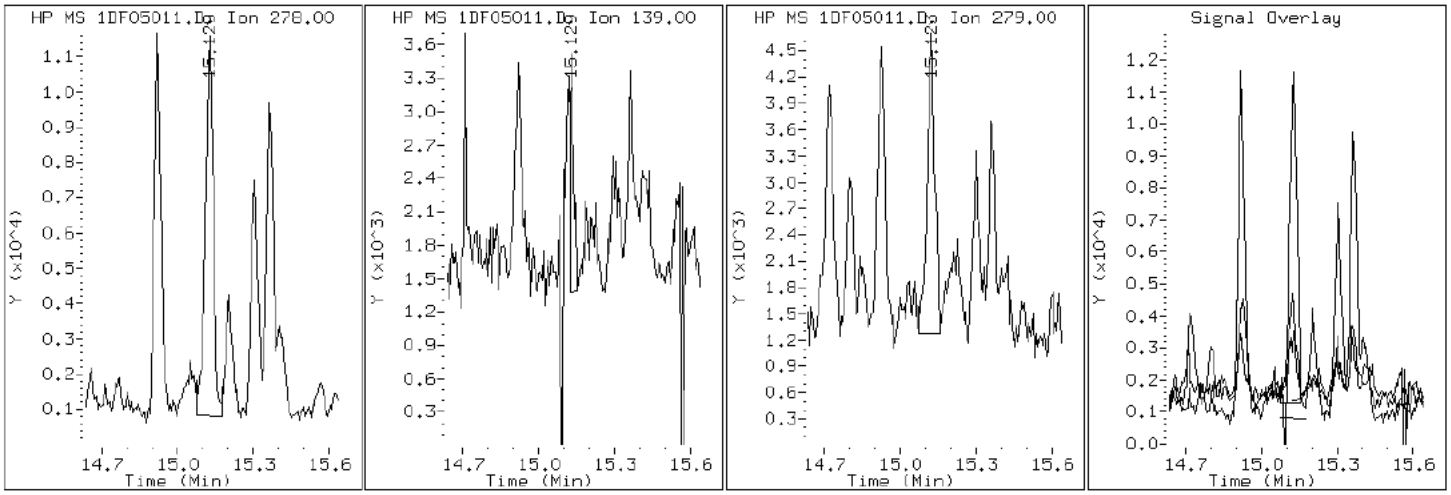
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

26 Dibenzo(a,h)anthracene



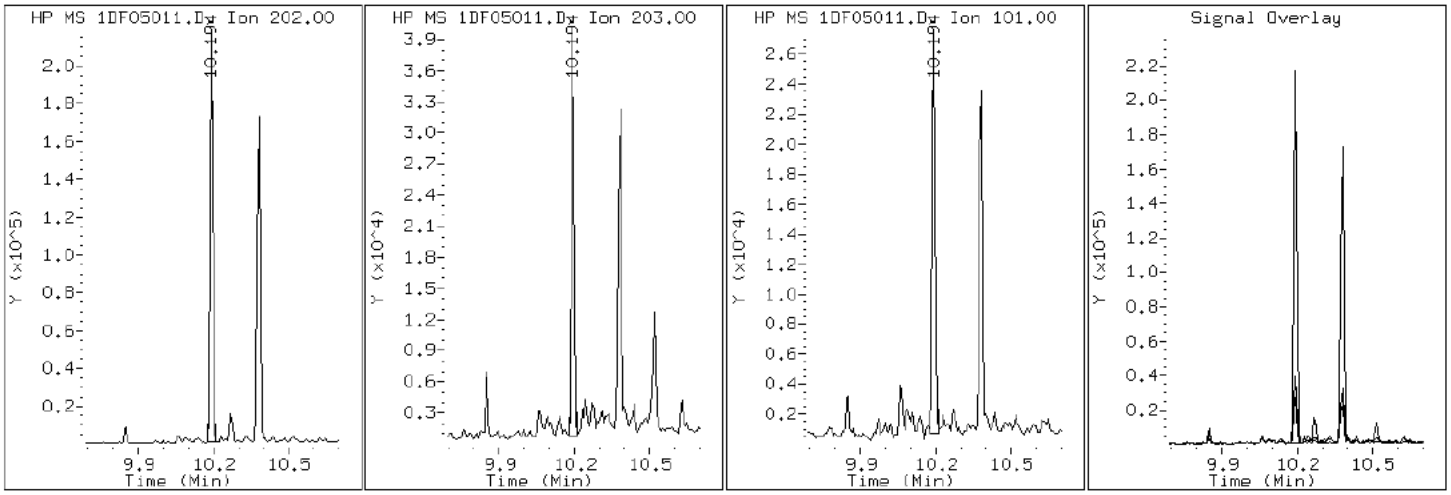
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

16 Fluoranthene



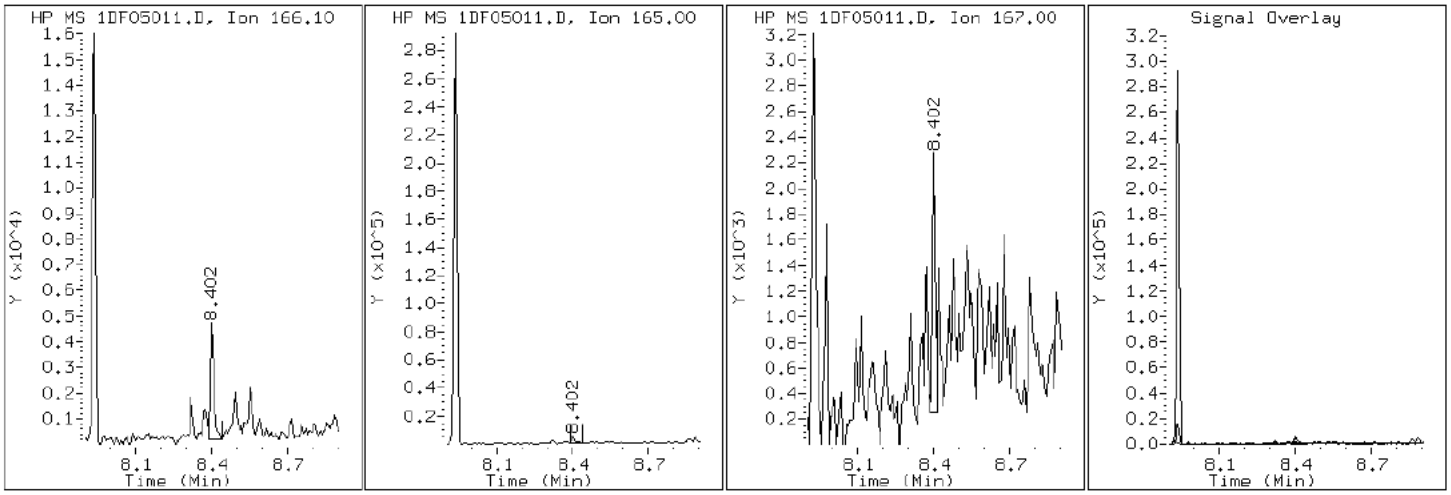
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

10 Fluorene



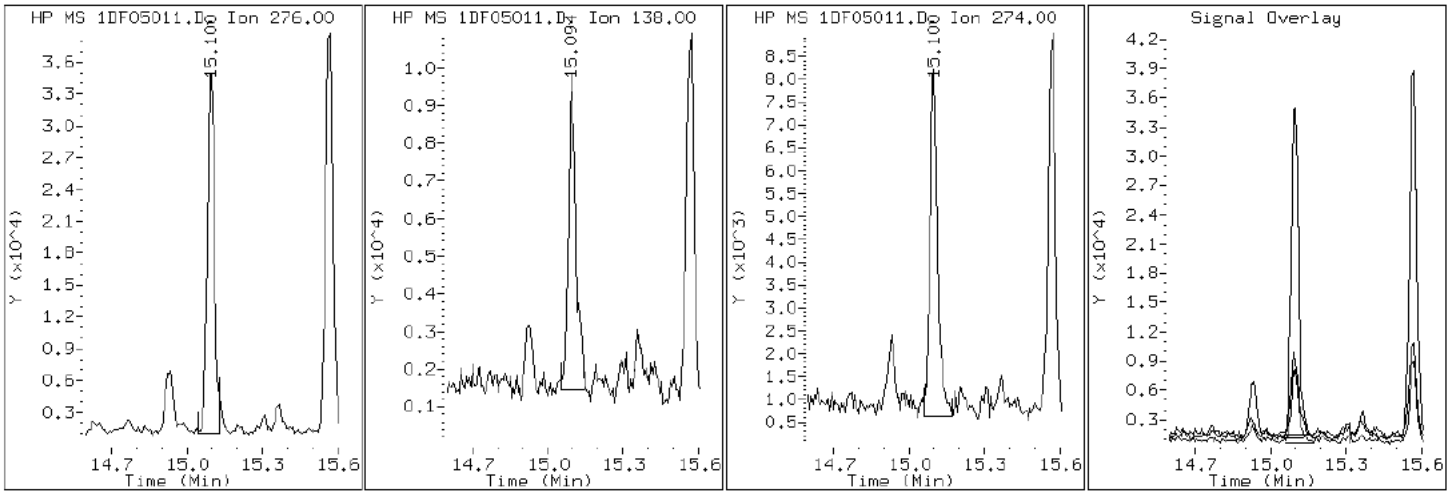
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

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



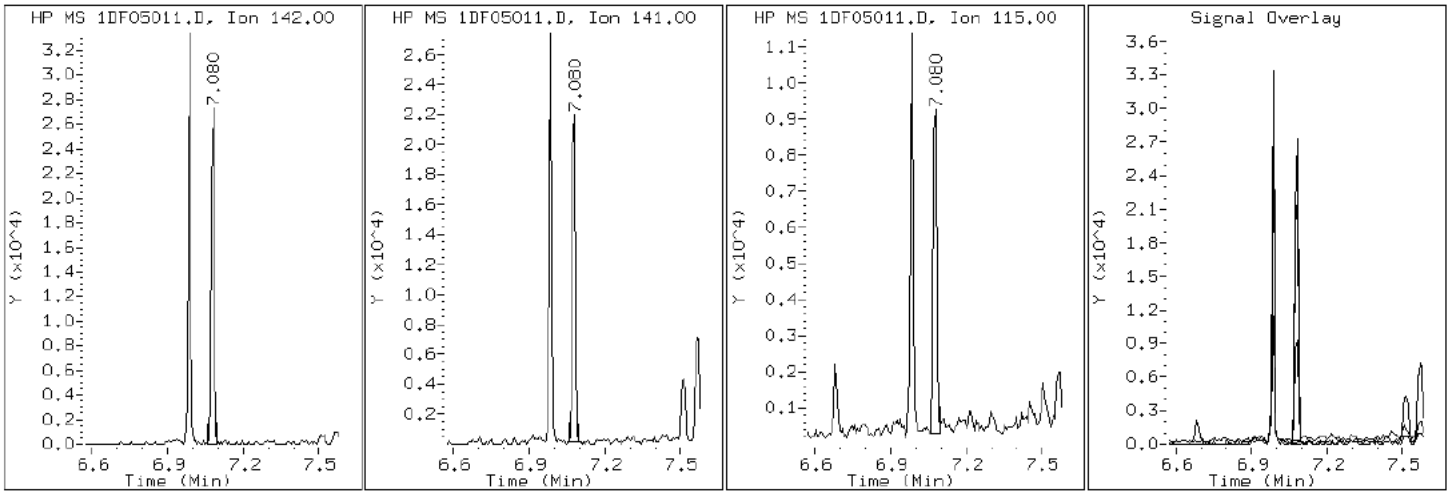
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

4 1-Methylnaphthalene



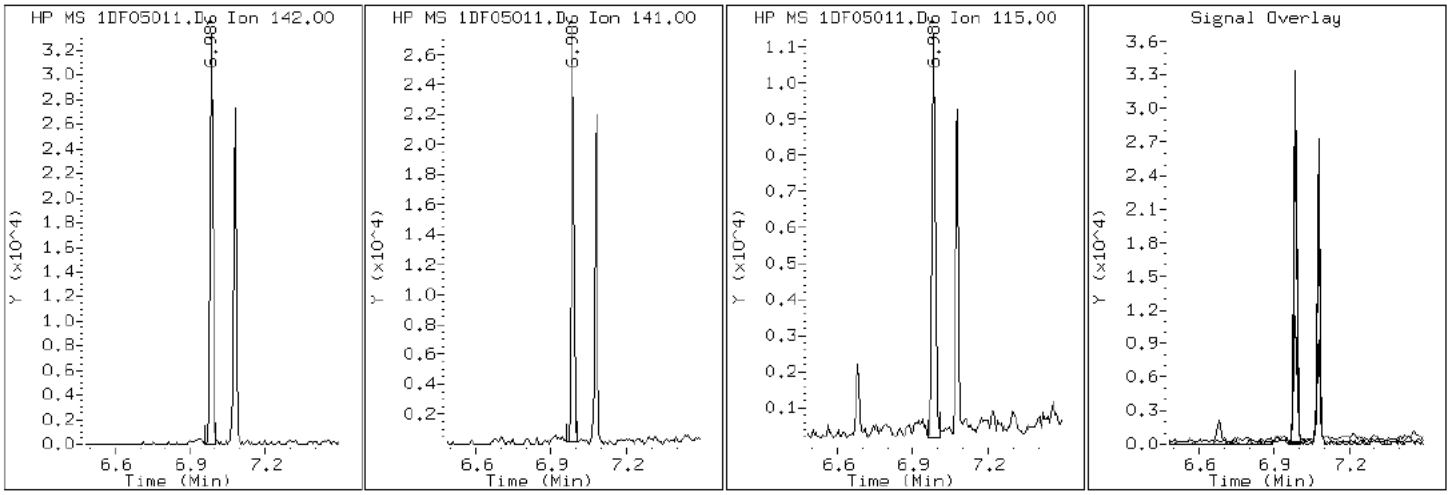
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

3 2-Methylnaphthalene



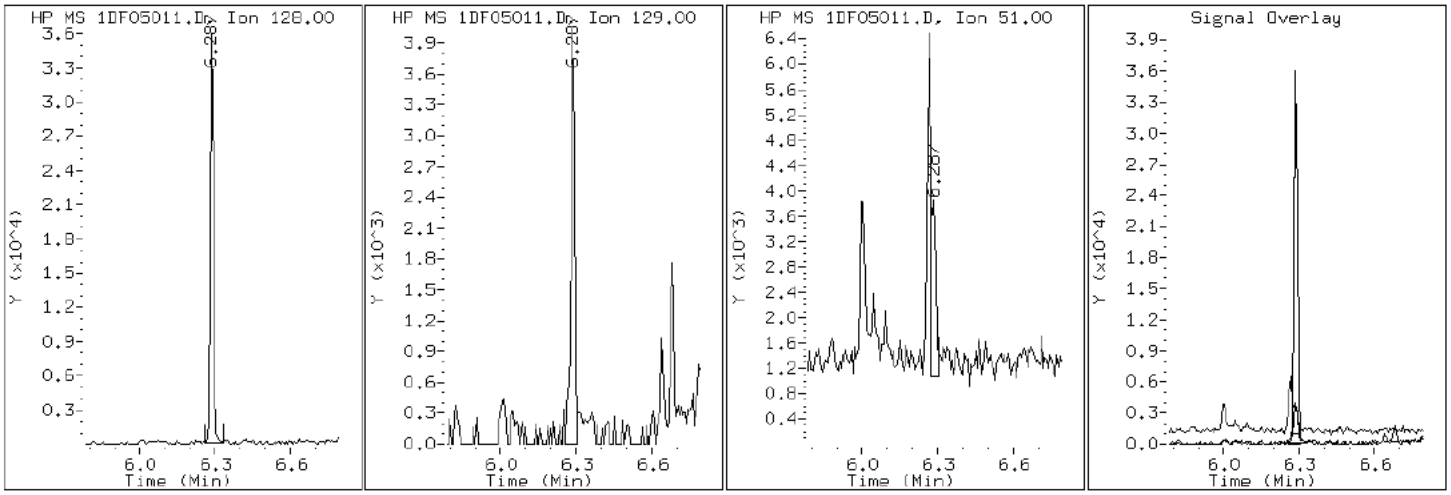
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

2 Naphthalene



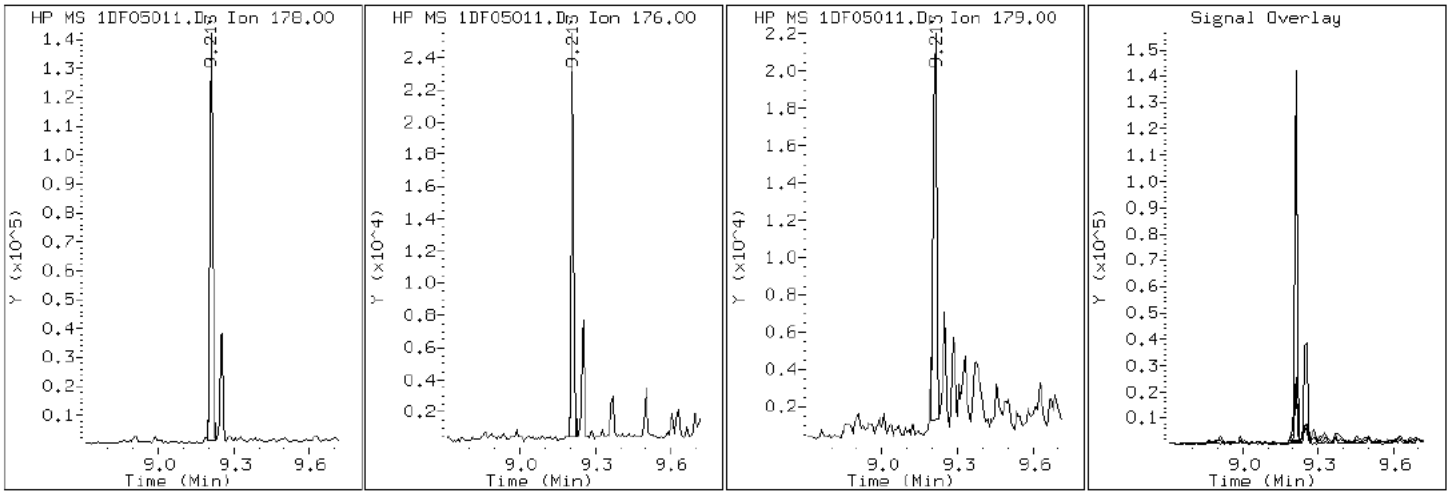
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

12 Phenanthrene



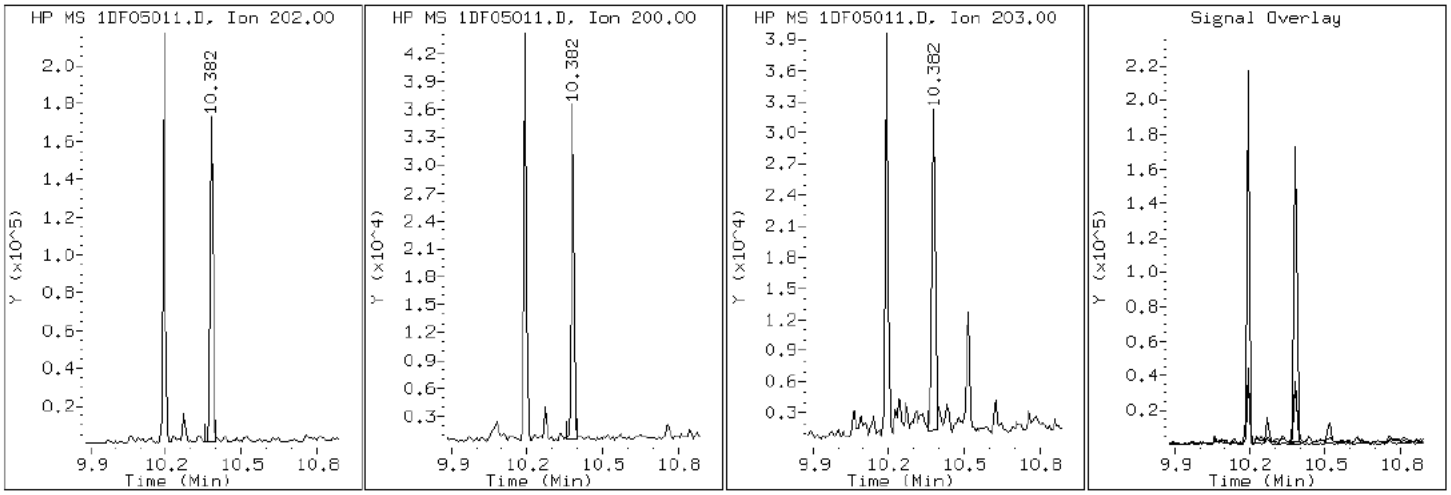
Data File: 1DF05011.D

Date: 05-JUN-2013 14:55

Client ID: CV1002A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-23-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05011.D
Inj. Date and Time: 05-JUN-2013 14:55
Instrument ID: BSMSD.i
Client ID: CV1002A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

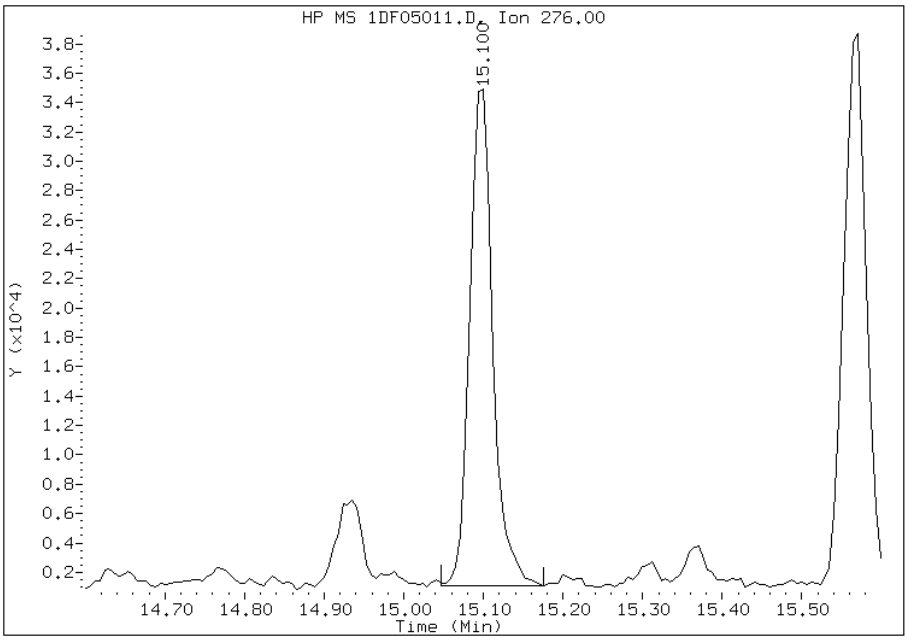
Processing Integration Results

RT: 15.10

Response: 67832

Amount: 1

Conc: 363



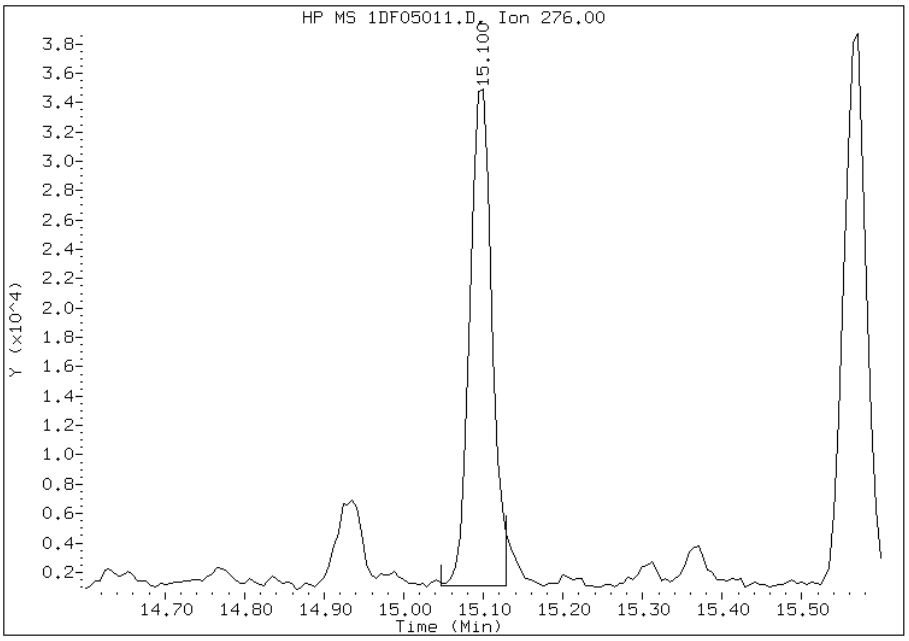
Manual Integration Results

RT: 15.10

Response: 65468

Amount: 1

Conc: 352



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV1002B-CS | Lab Sample ID: 680-90686-24

Matrix: Solid | Lab File ID: 1DF05012.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 15:05

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.07(g) | Date Analyzed: 06/05/2013 15:17

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

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

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	240		200	25
120-12-7	Anthracene	200		42	21
56-55-3	Benzo[a]anthracene	410		40	19
50-32-8	Benzo[a]pyrene	510		52	26
205-99-2	Benzo[b]fluoranthene	880		60	30
191-24-2	Benzo[g,h,i]perylene	470		99	22
207-08-9	Benzo[k]fluoranthene	290		40	18
218-01-9	Chrysene	640		45	22
53-70-3	Dibenz(a,h)anthracene	130		99	20
206-44-0	Fluoranthene	970		99	20
86-73-7	Fluorene	28	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	440		99	35
90-12-0	1-Methylnaphthalene	180	J	200	22
91-57-6	2-Methylnaphthalene	210		200	35
91-20-3	Naphthalene	180	J	200	22
85-01-8	Phenanthrene	640		40	19
129-00-0	Pyrene	860		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	104		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05012.D
Lab Smp Id: 680-90686-A-24-A Client Smp ID: CV1002B-CS
Inj Date : 05-JUN-2013 15:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-24-a
Misc Info : 680-90686-A-24-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	19.632	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.268	6.265	(1.000)	3449646	40.0000	
*	7 Acenaphthene-d10	164	7.937	7.934	(1.000)	1866212	40.0000	
*	11 Phenanthrene-d10	188	9.194	9.191	(1.000)	2883969	40.0000	
$	15 o-Terphenyl	230	9.505	9.503	(1.034)	110231	2.60896	860
*	19 Chrysene-d12	240	11.556	11.553	(1.000)	2488868	40.0000	
*	24 Perylene-d12	264	13.460	13.457	(1.000)	2905045	40.0000	
	2 Naphthalene	128	6.286	6.289	(1.003)	47059	0.55318	180
	3 2-Methylnaphthalene	142	6.985	6.988	(1.114)	34570	0.63823	210
	4 1-Methylnaphthalene	142	7.079	7.076	(1.129)	29935	0.53683	180
	5 1,1'-Biphenyl	154	7.426	7.423	(0.936)	6670	0.10579	35
	6 Acenaphthylene	152	7.807	7.811	(0.984)	55415	0.71618	240
	9 Dibenzofuran	168	8.107	8.110	(1.021)	16468	0.24332	80
	10 Fluorene	166	8.401	8.404	(1.058)	4672	0.08412	28(Q)
	12 Phenanthrene	178	9.212	9.215	(1.002)	152487	1.95227	640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.253	9.256	(1.006)	44800	0.59114	200
16 Fluoranthene	202	10.193	10.196	(1.109)	234289	2.93203	970
17 Pyrene	202	10.381	10.384	(0.898)	188761	2.59045	860
18 Benzo(a)anthracene	228	11.538	11.542	(0.998)	92544	1.25289	410
20 Chrysene	228	11.580	11.583	(1.002)	128333	1.92943	640
21 Benzo(b)fluoranthene	252	12.896	12.893	(0.958)	193900	2.66427	880
22 Benzo(k)fluoranthene	252	12.931	12.934	(0.961)	66076	0.86699	290
23 Benzo(a)pyrene	252	13.360	13.363	(0.993)	104969	1.55537	510
25 Indeno(1,2,3-cd)pyrene	276	15.099	15.102	(1.122)	89034	1.32713	440(M)
26 Dibenzo(a,h)anthracene	278	15.128	15.137	(1.124)	23163	0.40558	130
27 Benzo(g,h,i)perylene	276	15.563	15.572	(1.156)	93434	1.41646	470

QC Flag Legend

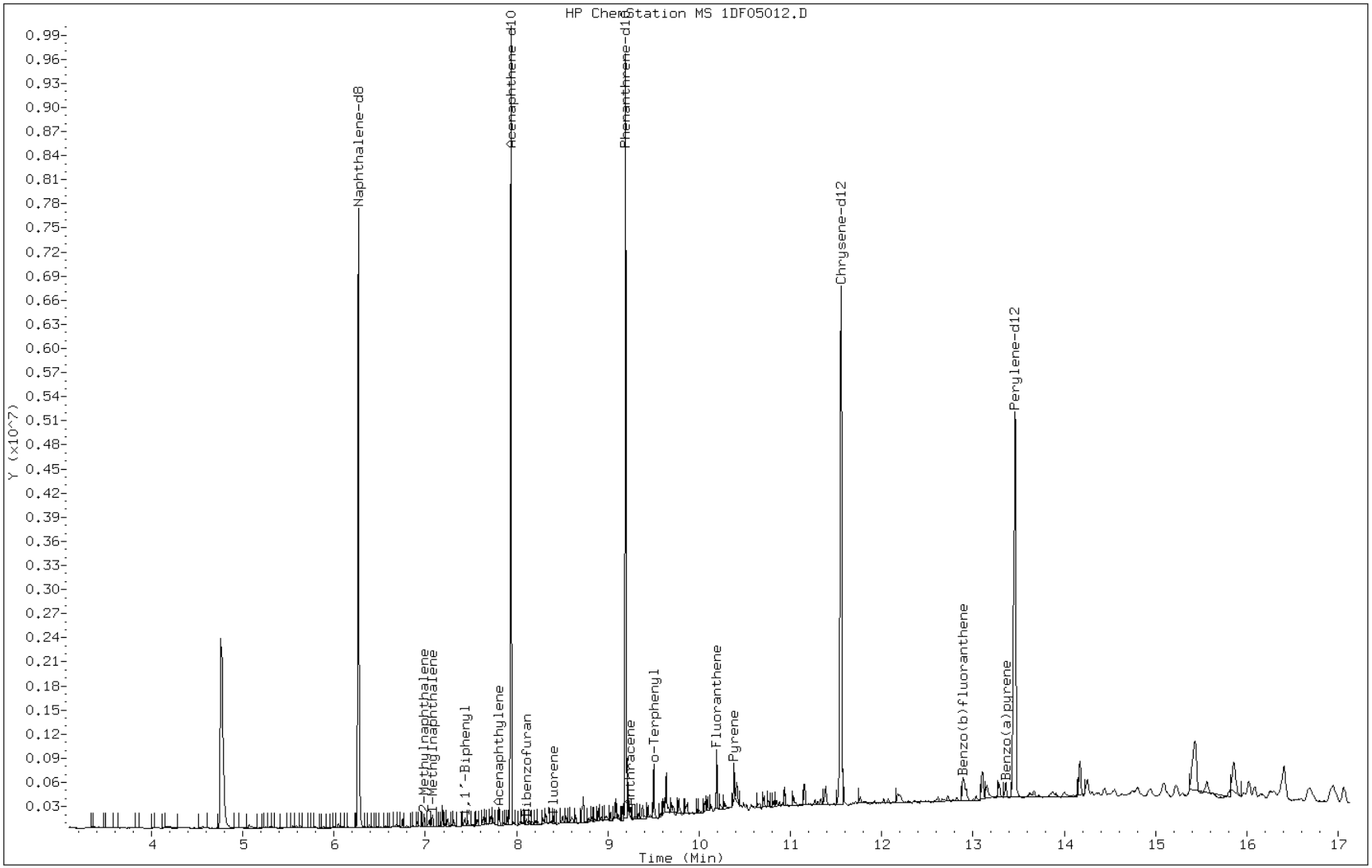
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC



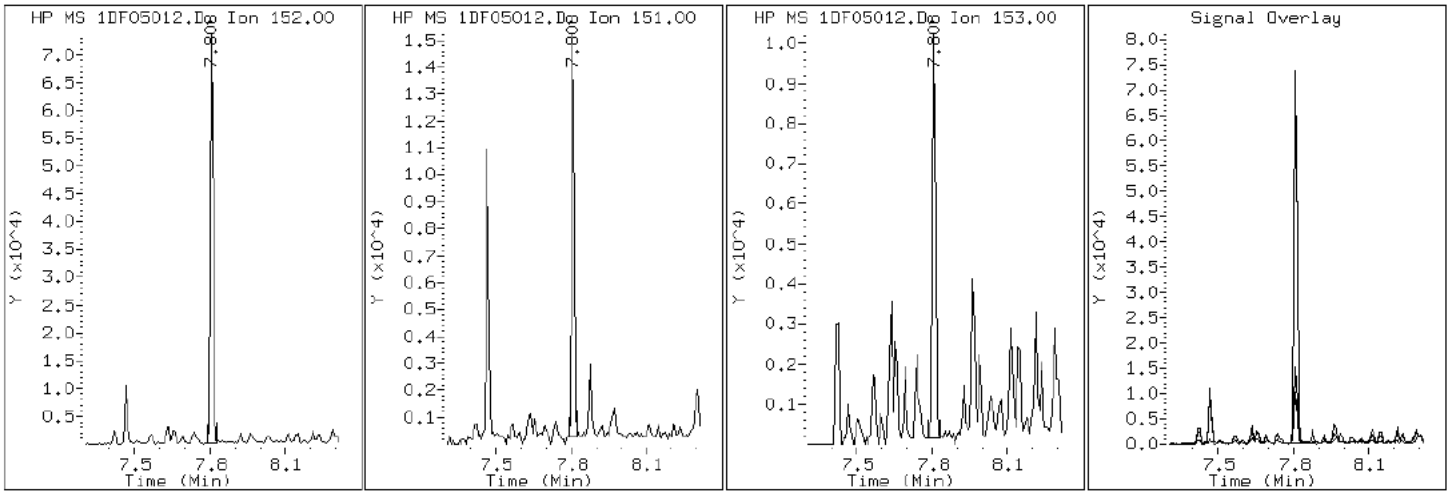
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

6 Acenaphthylene



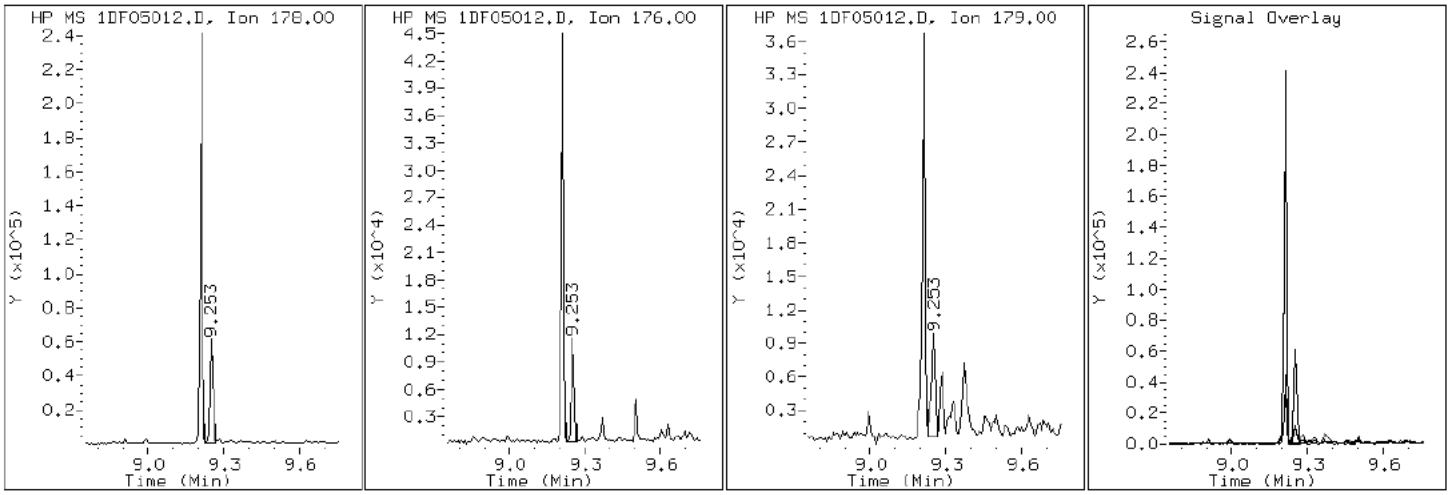
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

13 Anthracene



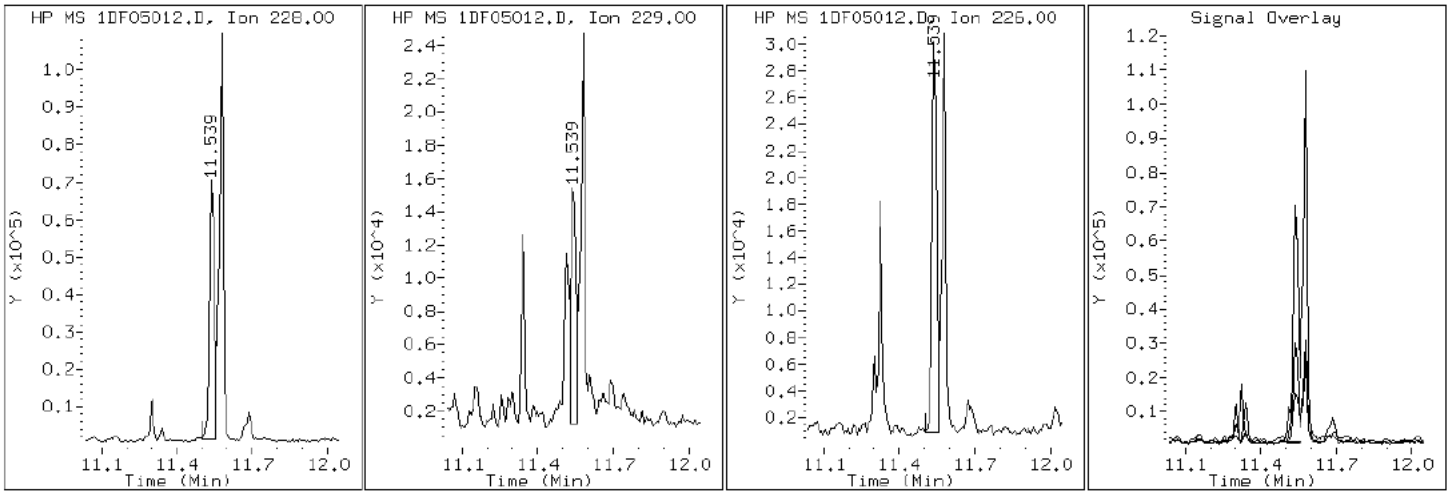
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

18 Benzo(a)anthracene



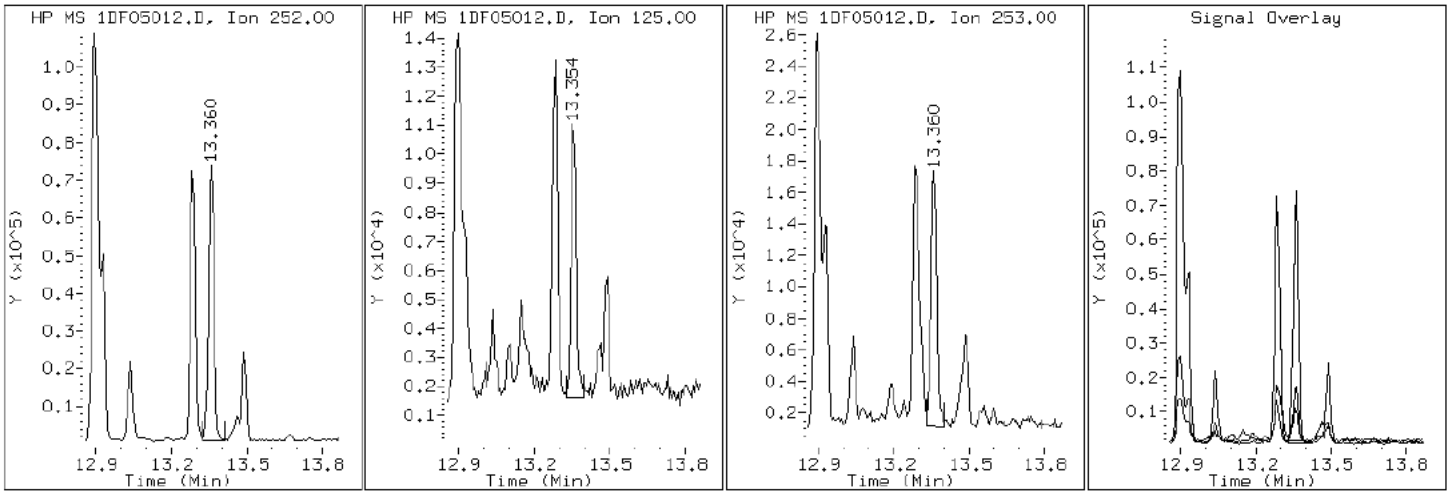
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

23 Benzo(a)pyrene



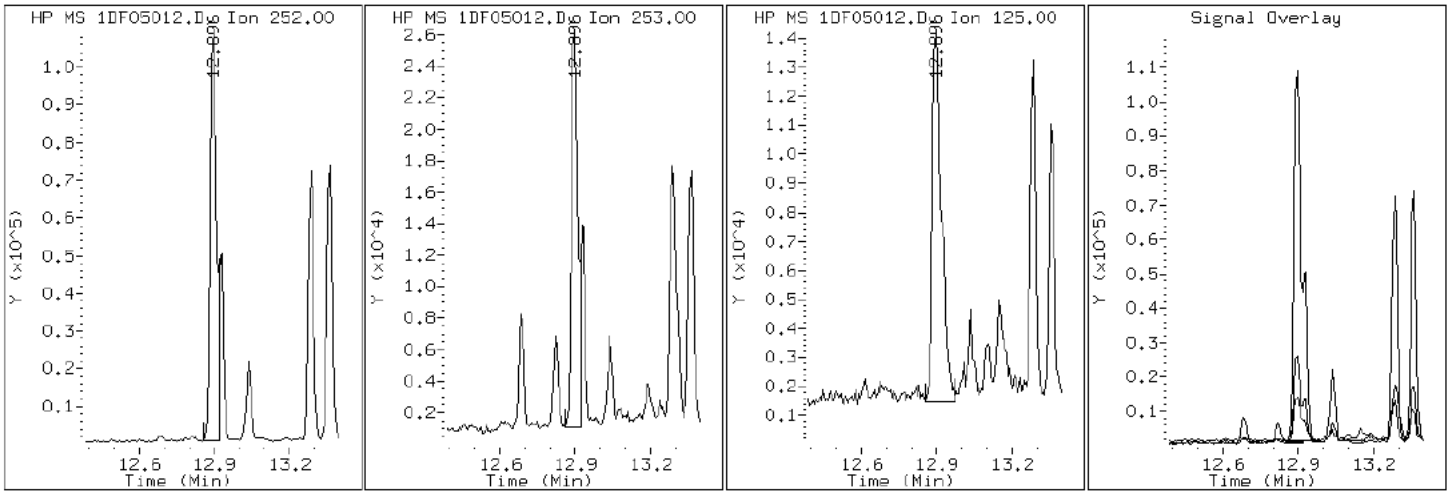
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

21 Benzo(b)fluoranthene



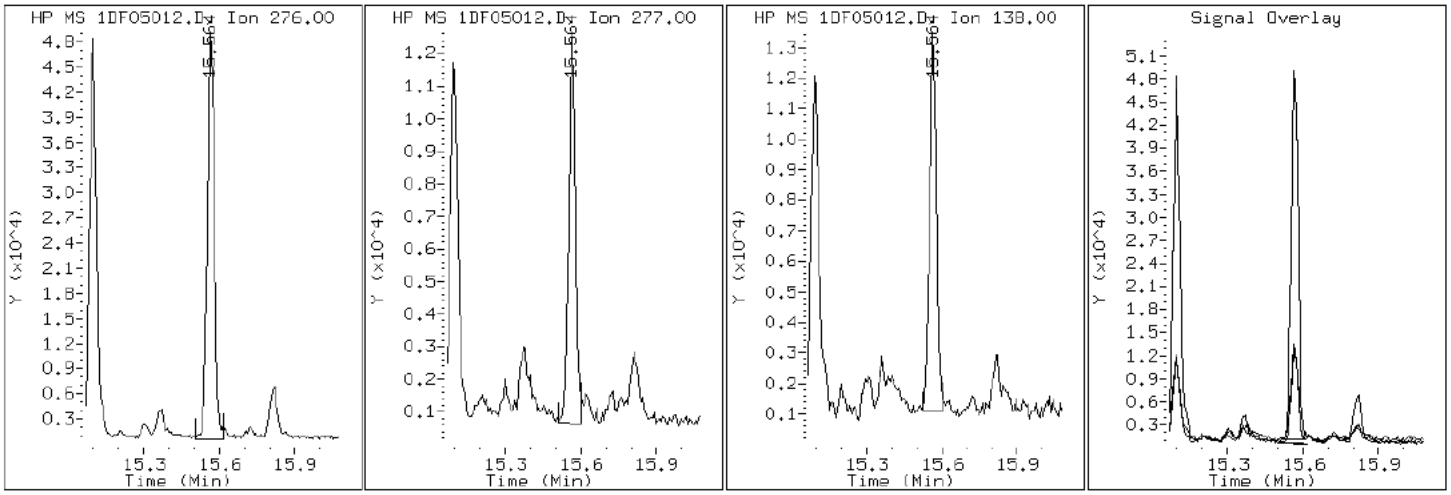
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

27 Benzo(g,h,i)perylene



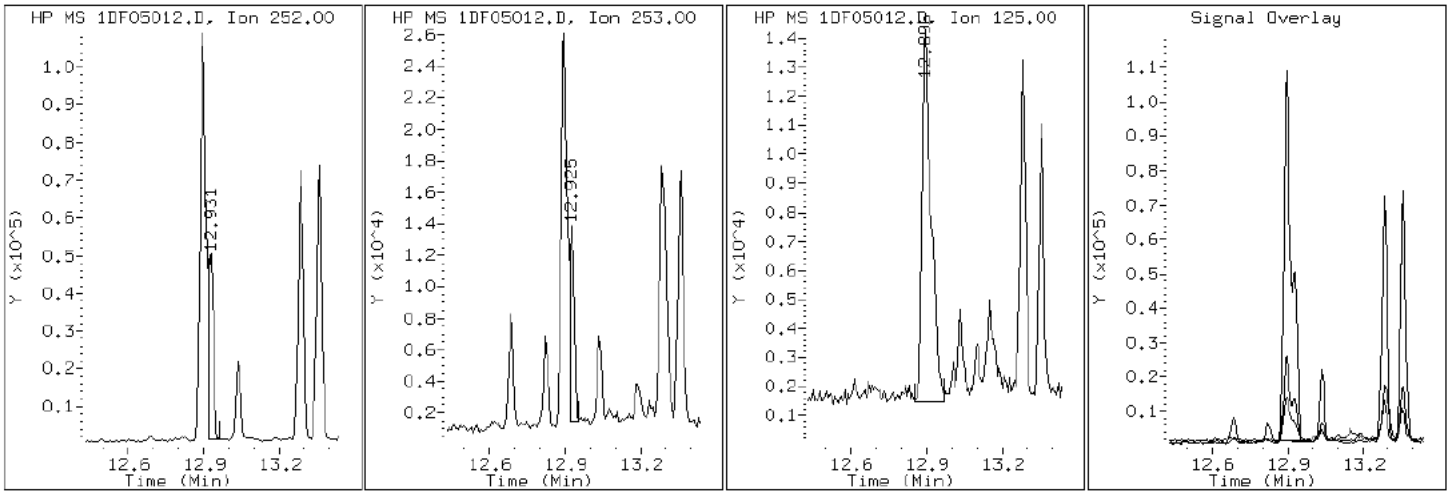
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

22 Benzo(k)fluoranthene



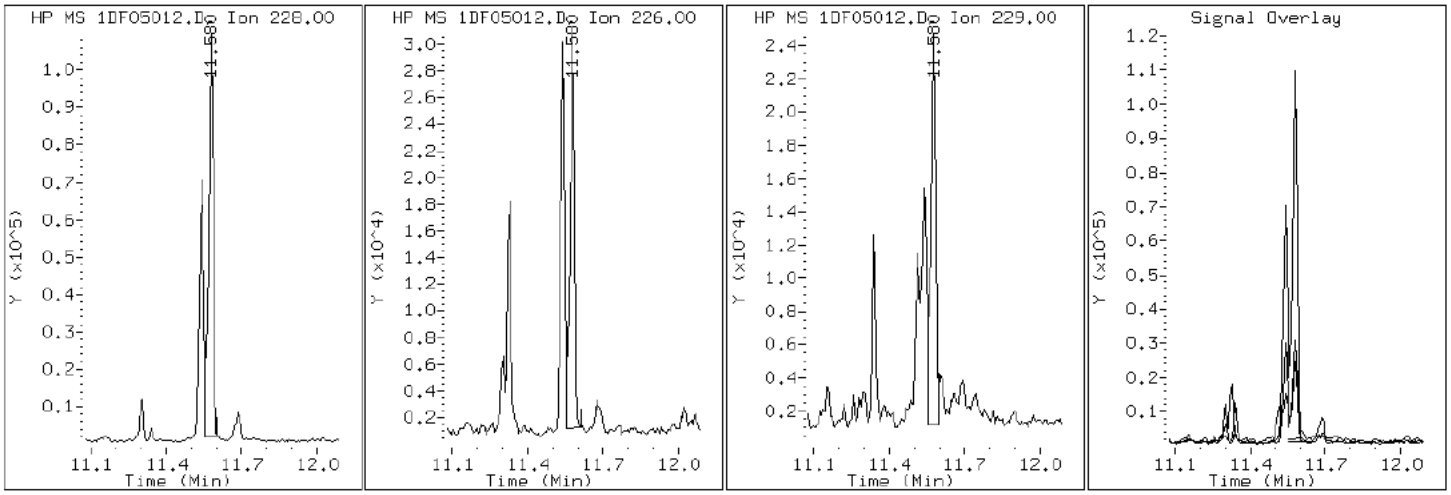
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

20 Chrysene



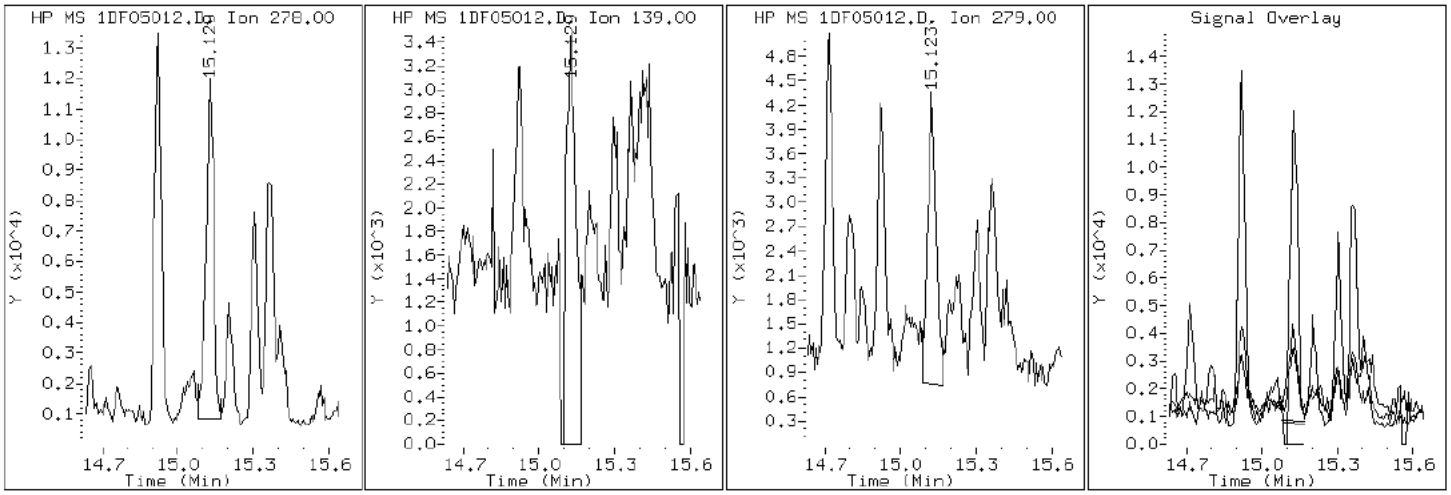
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

26 Dibenzo(a,h)anthracene



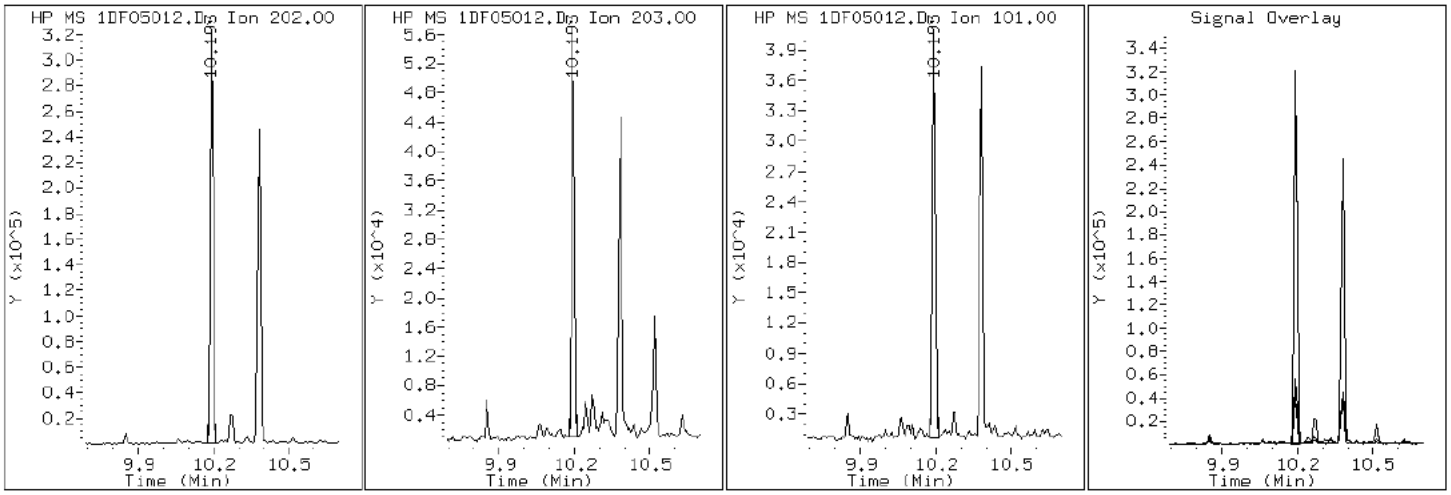
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

16 Fluoranthene



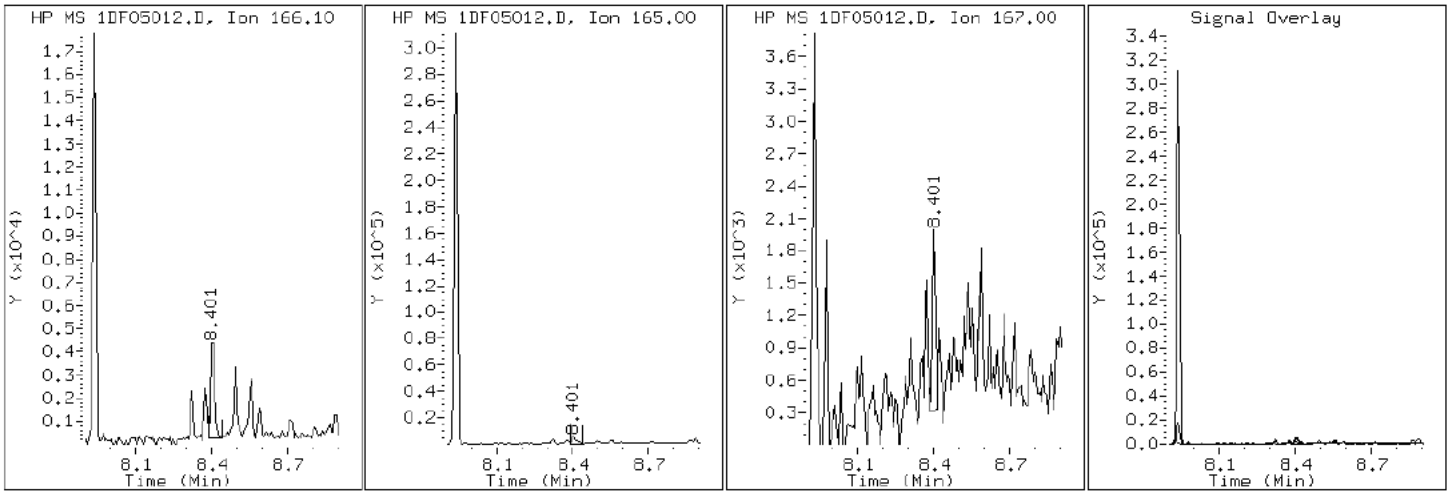
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

10 Fluorene



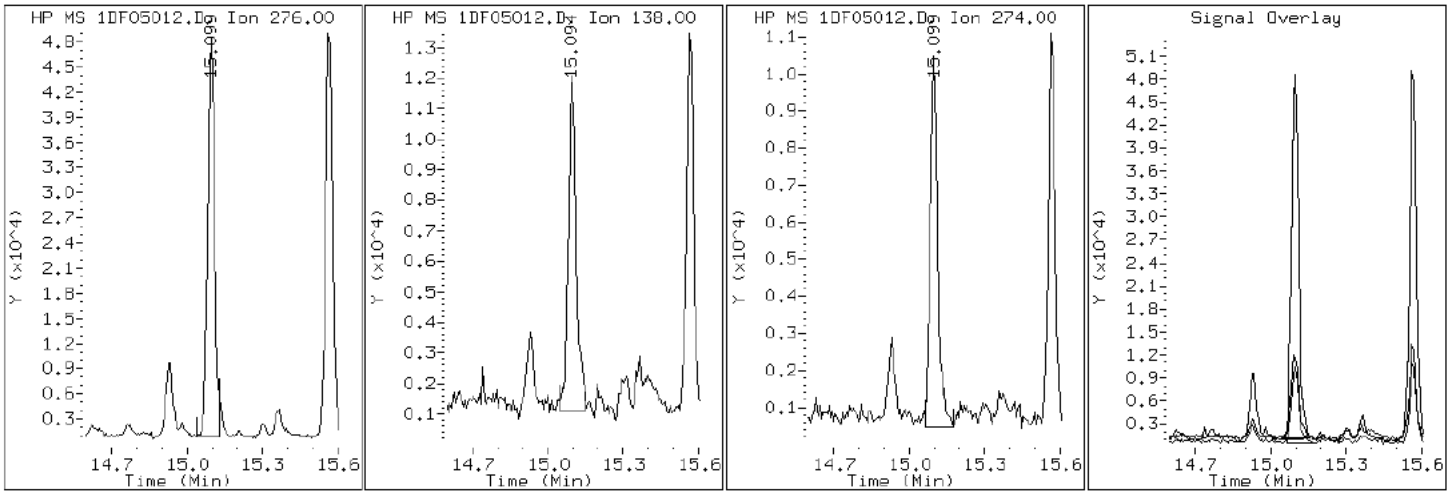
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

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



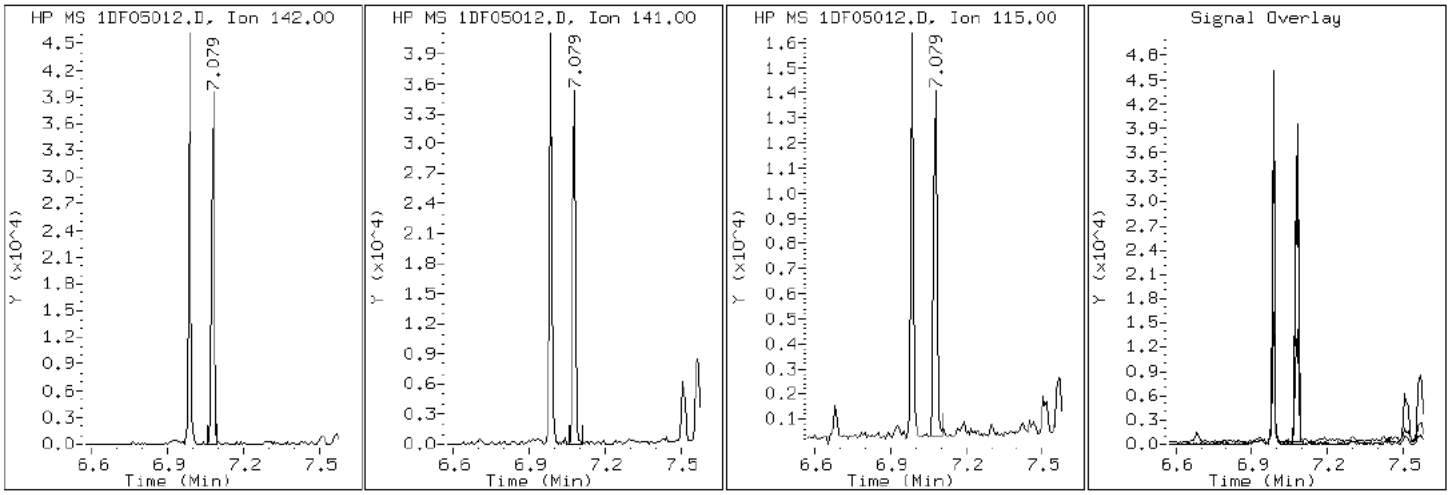
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

4 1-Methylnaphthalene



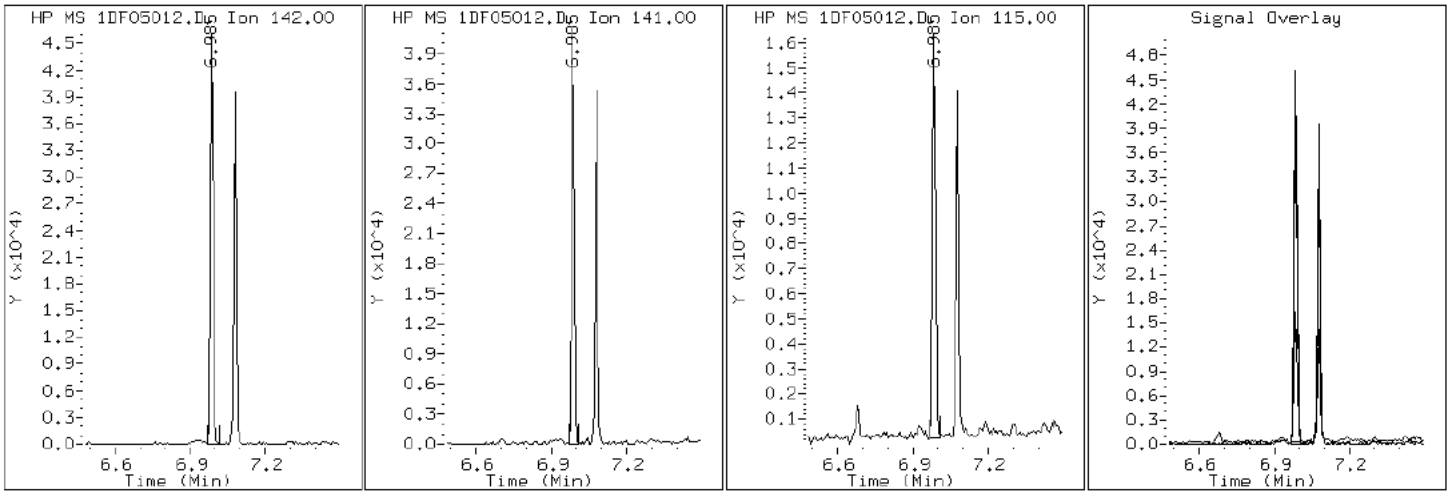
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

3 2-Methylnaphthalene



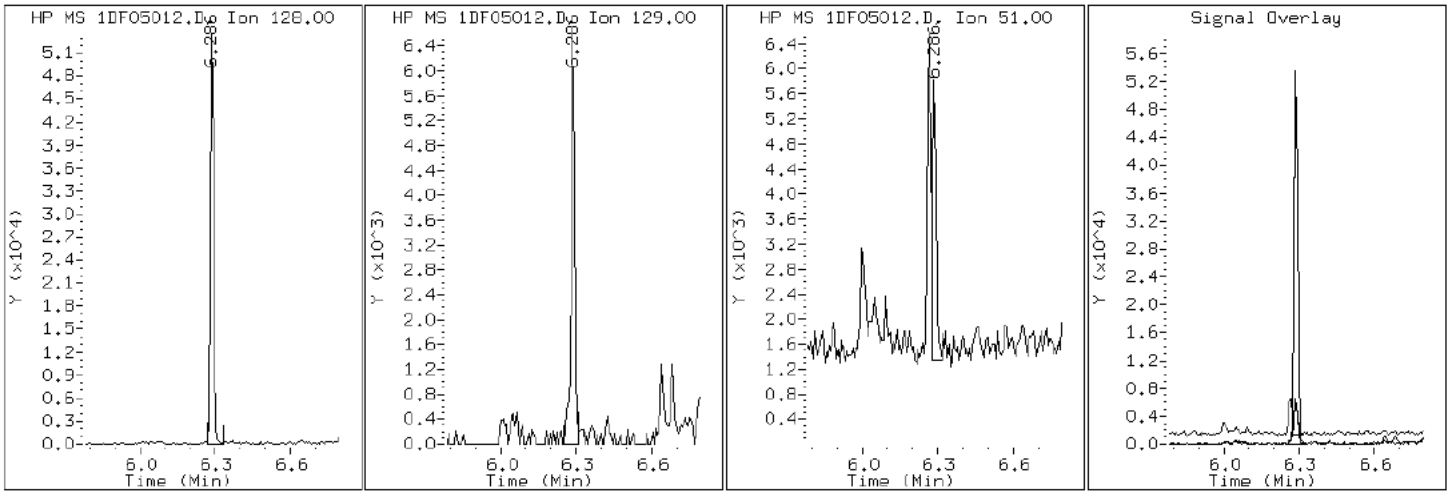
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

2 Naphthalene



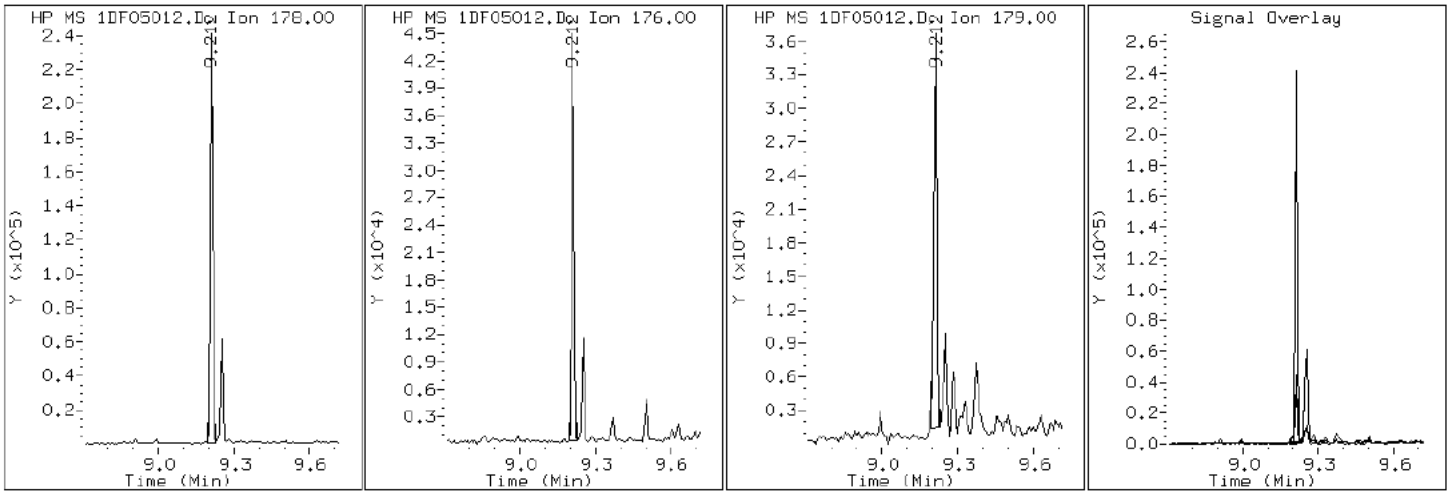
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

12 Phenanthrene



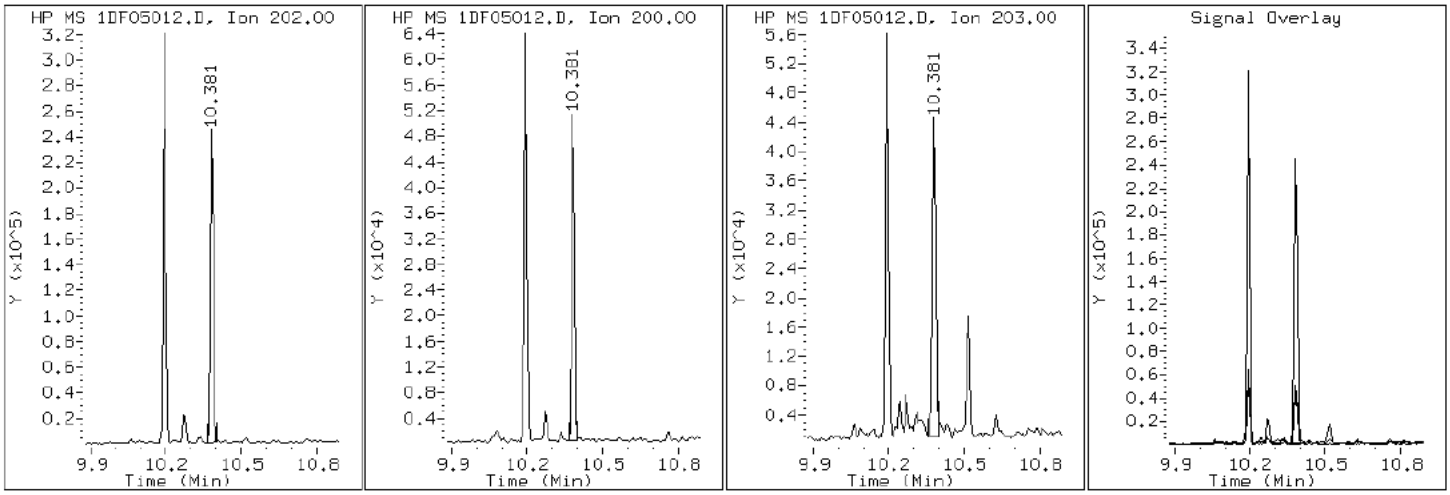
Data File: 1DF05012.D

Date: 05-JUN-2013 15:17

Client ID: CV1002B-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-24-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05012.D
Inj. Date and Time: 05-JUN-2013 15:17
Instrument ID: BSMSD.i
Client ID: CV1002B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

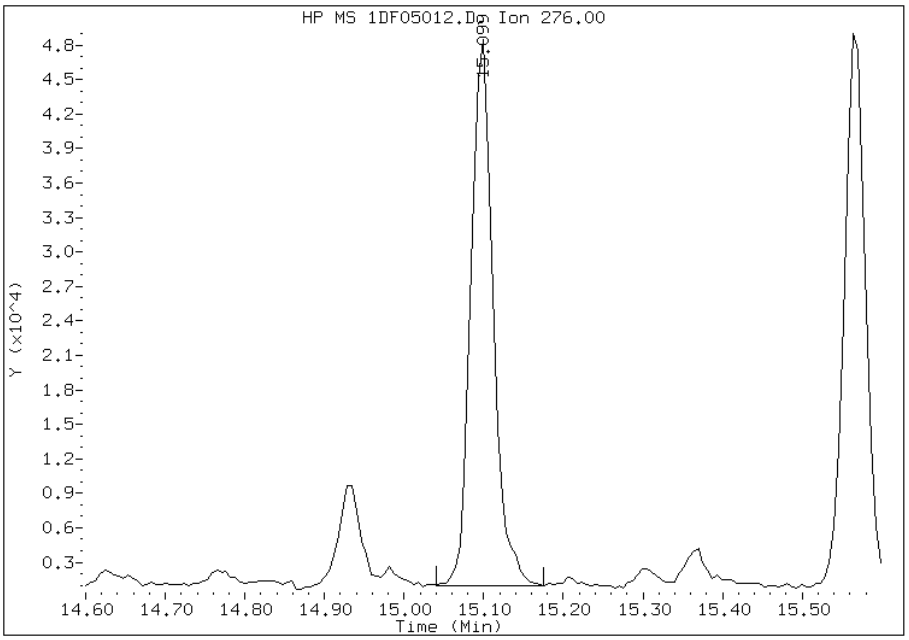
Processing Integration Results

RT: 15.10

Response: 92109

Amount: 1

Conc: 452



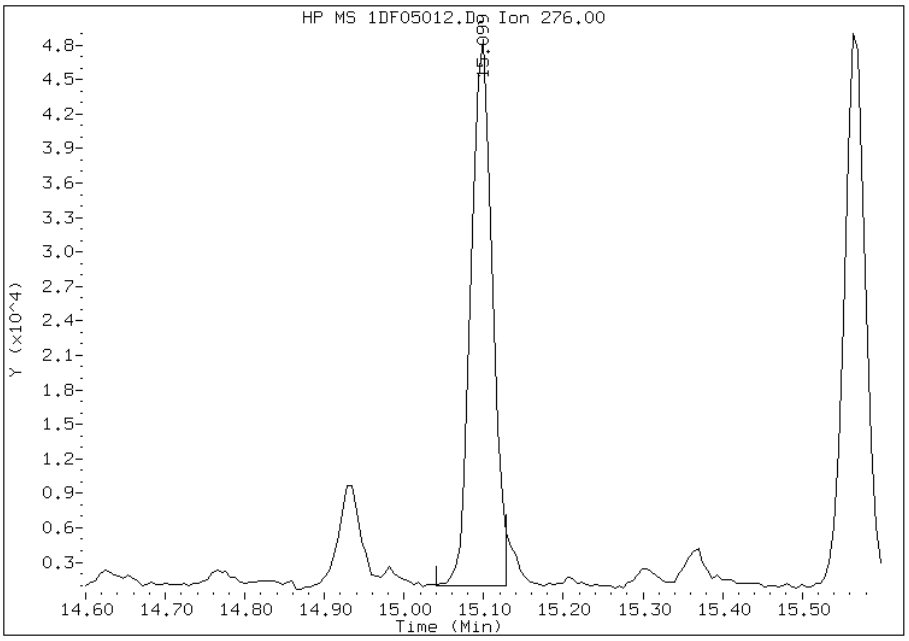
Manual Integration Results

RT: 15.10

Response: 89034

Amount: 1

Conc: 438



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV1081A-CS | Lab Sample ID: 680-90686-25

Matrix: Solid | Lab File ID: 1DF05013.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 13:50

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.19(g) | Date Analyzed: 06/05/2013 15:40

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

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

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	74	J	200	25
120-12-7	Anthracene	170		42	21
56-55-3	Benzo[a]anthracene	660		40	19
50-32-8	Benzo[a]pyrene	660		51	26
205-99-2	Benzo[b]fluoranthene	1100		60	30
191-24-2	Benzo[g,h,i]perylene	470		99	22
207-08-9	Benzo[k]fluoranthene	330		40	18
218-01-9	Chrysene	820		45	22
53-70-3	Dibenz(a,h)anthracene	170		99	20
206-44-0	Fluoranthene	1300		99	20
86-73-7	Fluorene	41	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	460		99	35
90-12-0	1-Methylnaphthalene	130	J	200	22
91-57-6	2-Methylnaphthalene	150	J	200	35
91-20-3	Naphthalene	120	J	200	22
85-01-8	Phenanthrene	800		40	19
129-00-0	Pyrene	1100		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05013.D
Lab Smp Id: 680-90686-A-25-A Client Smp ID: CV1081A-CS
Inj Date : 05-JUN-2013 15:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-25-a
Misc Info : 680-90686-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 13
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	15.190	Weight Extracted
M	20.126	% 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	6.265	(1.000)	3089875	40.0000	
*	7 Acenaphthene-d10	164	7.938	7.934	(1.000)	1661065	40.0000	
*	11 Phenanthrene-d10	188	9.195	9.191	(1.000)	2579236	40.0000	
$	15 o-Terphenyl	230	9.501	9.503	(1.033)	84317	2.23141	740
*	19 Chrysene-d12	240	11.557	11.553	(1.000)	2332271	40.0000	
*	24 Perylene-d12	264	13.461	13.457	(1.000)	2750385	40.0000	
	2 Naphthalene	128	6.287	6.289	(1.003)	26994	0.35426	120
	3 2-Methylnaphthalene	142	6.986	6.988	(1.114)	21969	0.45282	150
	4 1-Methylnaphthalene	142	7.080	7.076	(1.129)	19363	0.38767	130
	5 1,1'-Biphenyl	154	7.421	7.423	(0.935)	5377	0.09581	32
	6 Acenaphthylene	152	7.809	7.811	(0.984)	15498	0.22503	74
	9 Dibenzofuran	168	8.108	8.110	(1.021)	12947	0.21492	71
	10 Fluorene	166	8.402	8.404	(1.058)	6182	0.12506	41
	12 Phenanthrene	178	9.213	9.215	(1.002)	169133	2.42123	800

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.254	9.256	(1.006)	35562	0.52468	170
16 Fluoranthene	202	10.194	10.196	(1.109)	272015	3.80635	1200
17 Pyrene	202	10.382	10.384	(0.898)	230279	3.37241	1100
18 Benzo(a)anthracene	228	11.540	11.542	(0.998)	138495	2.00089	660
20 Chrysene	228	11.581	11.583	(1.002)	154390	2.47704	820
21 Benzo(b)fluoranthene	252	12.897	12.893	(0.958)	226452	3.28652	1100
22 Benzo(k)fluoranthene	252	12.926	12.934	(0.960)	72739	1.00809	330
23 Benzo(a)pyrene	252	13.355	13.363	(0.992)	128843	1.98728	660
25 Indeno(1,2,3-cd)pyrene	276	15.094	15.102	(1.121)	88199	1.38176	460(M)
26 Dibenzo(a,h)anthracene	278	15.135	15.137	(1.124)	28268	0.50201	160
27 Benzo(g,h,i)perylene	276	15.570	15.572	(1.157)	88662	1.41970	470

QC Flag Legend

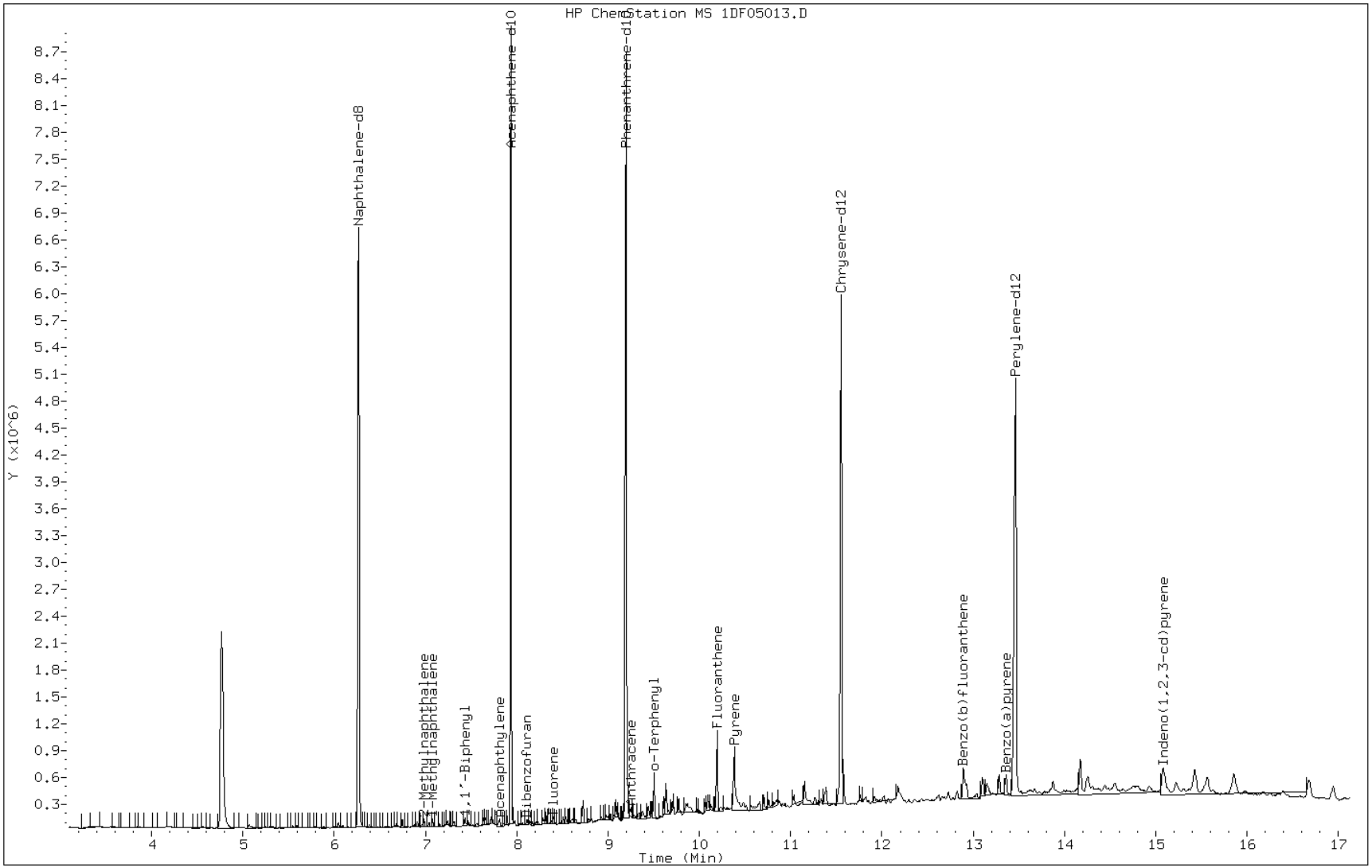
M - Compound response manually integrated.

Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC



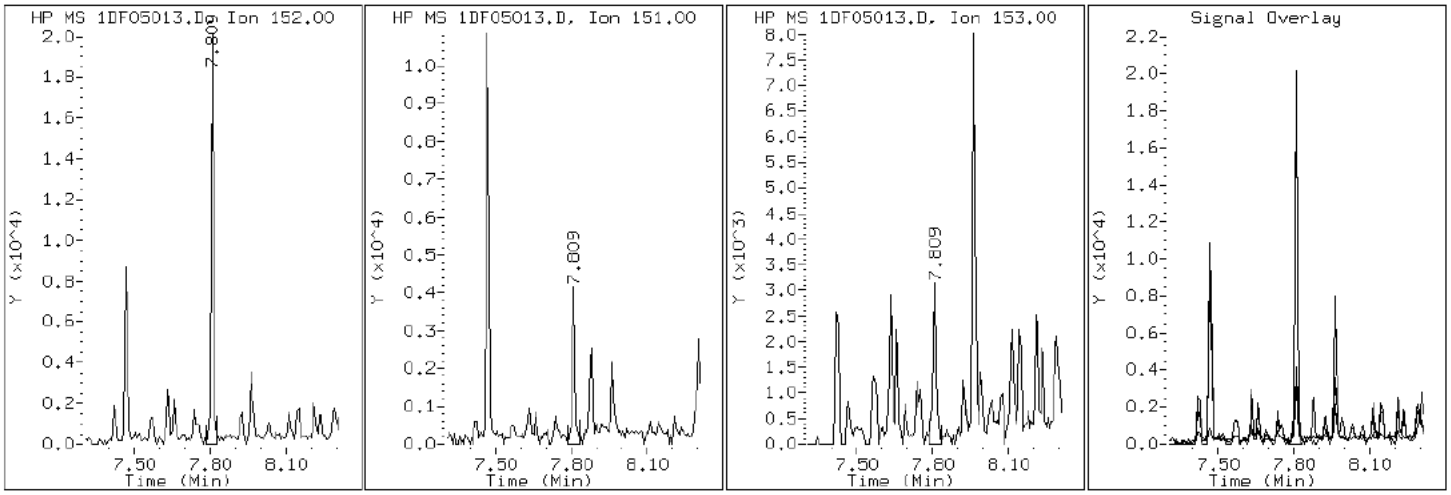
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

6 Acenaphthylene



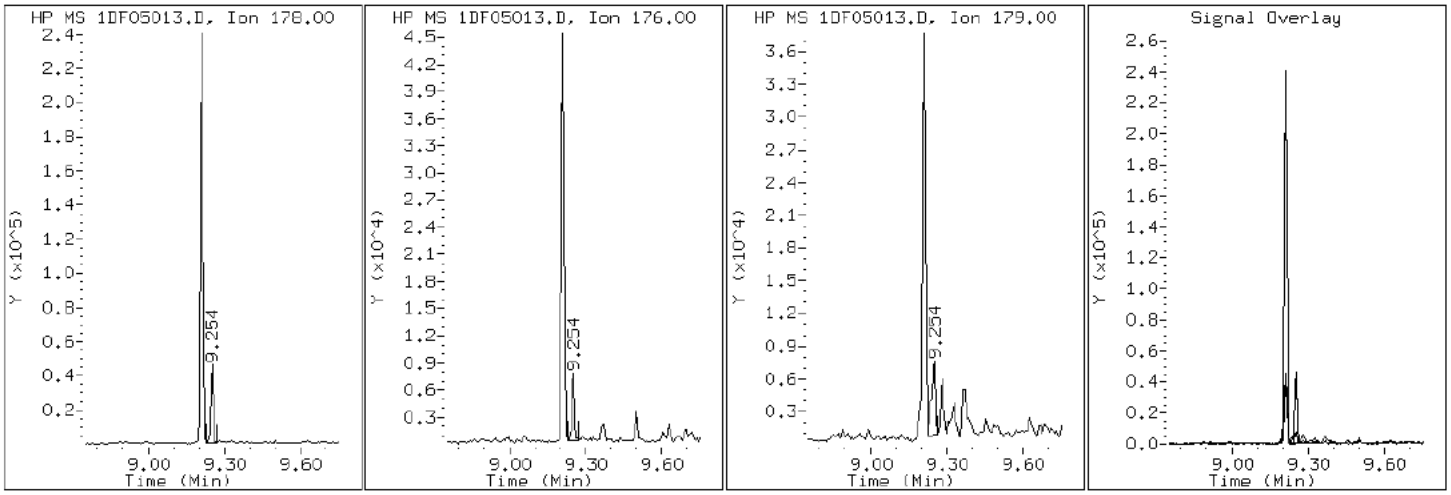
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

13 Anthracene



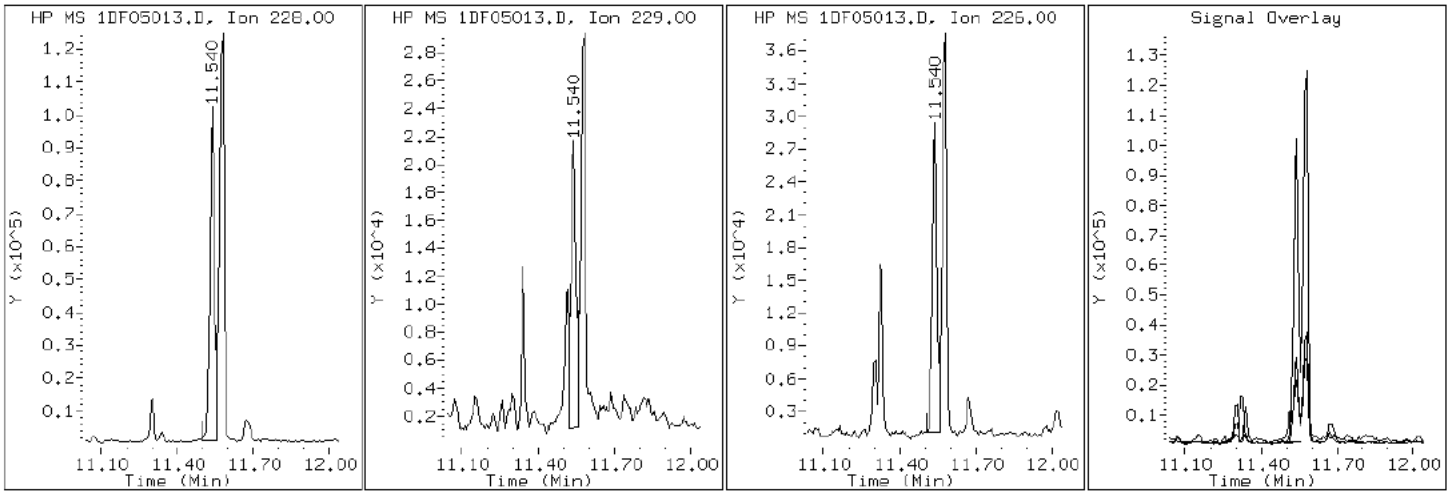
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

18 Benzo(a)anthracene



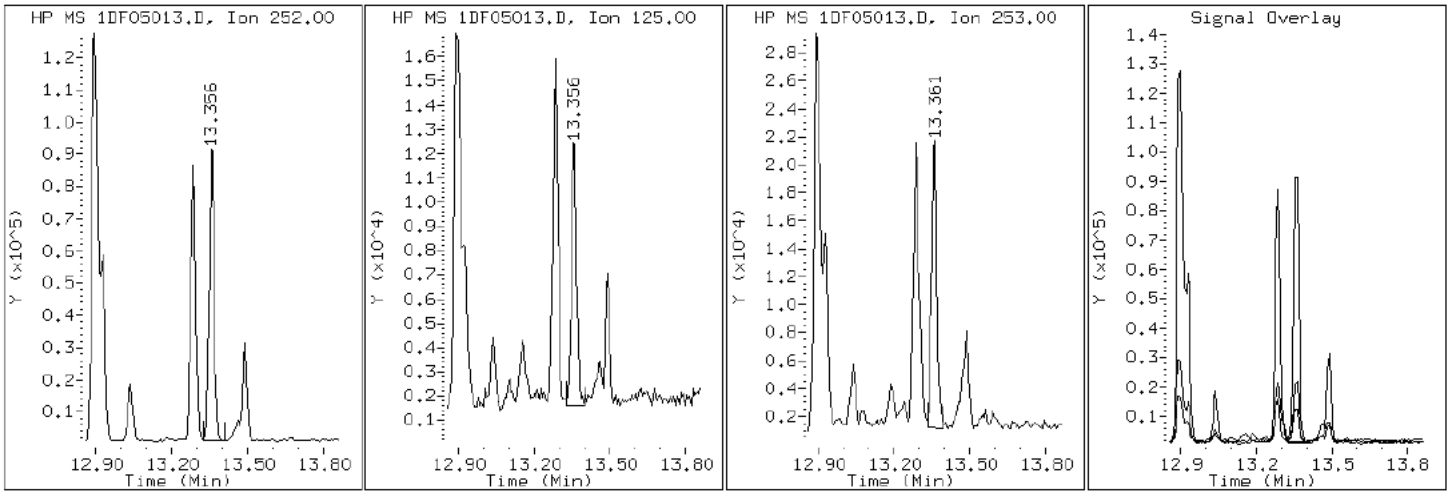
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

23 Benzo(a)pyrene



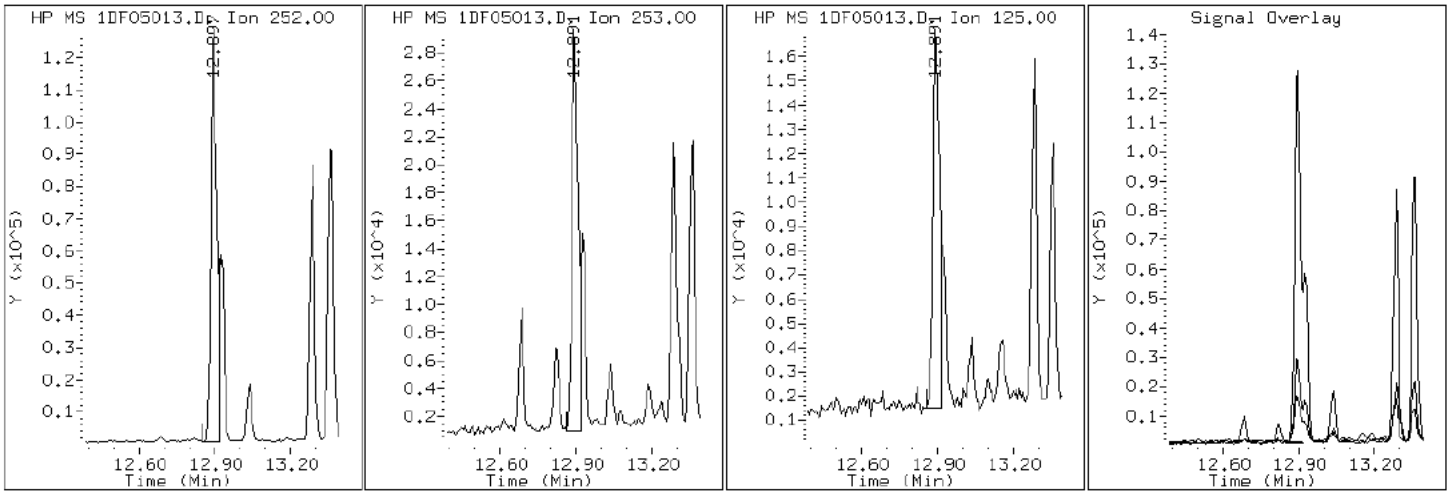
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

21 Benzo(b)fluoranthene



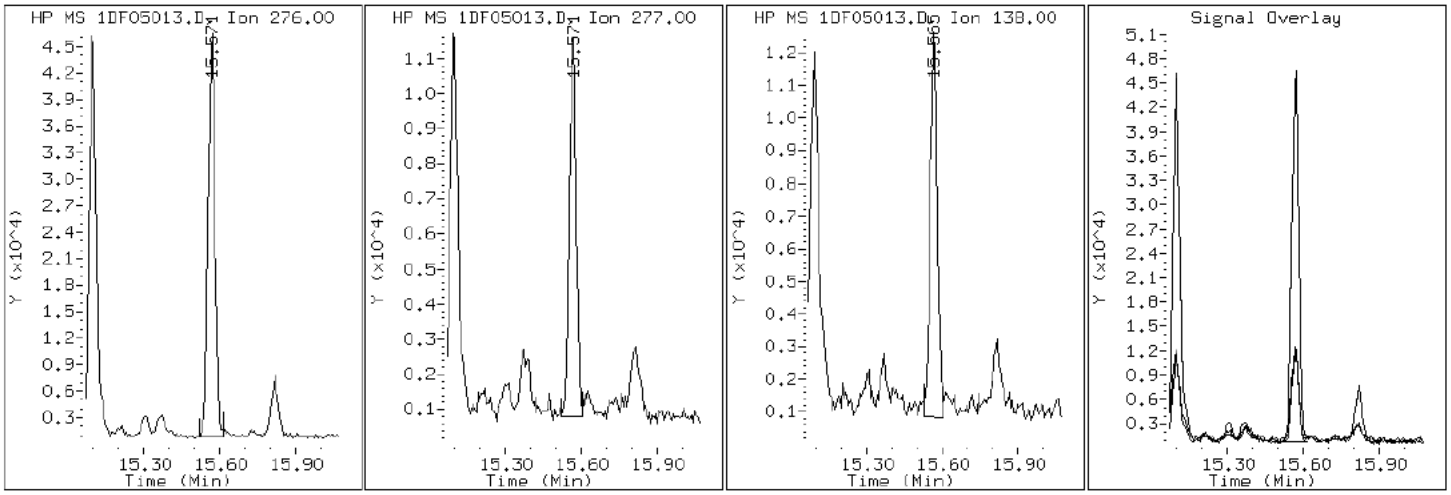
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

27 Benzo(g,h,i)perylene



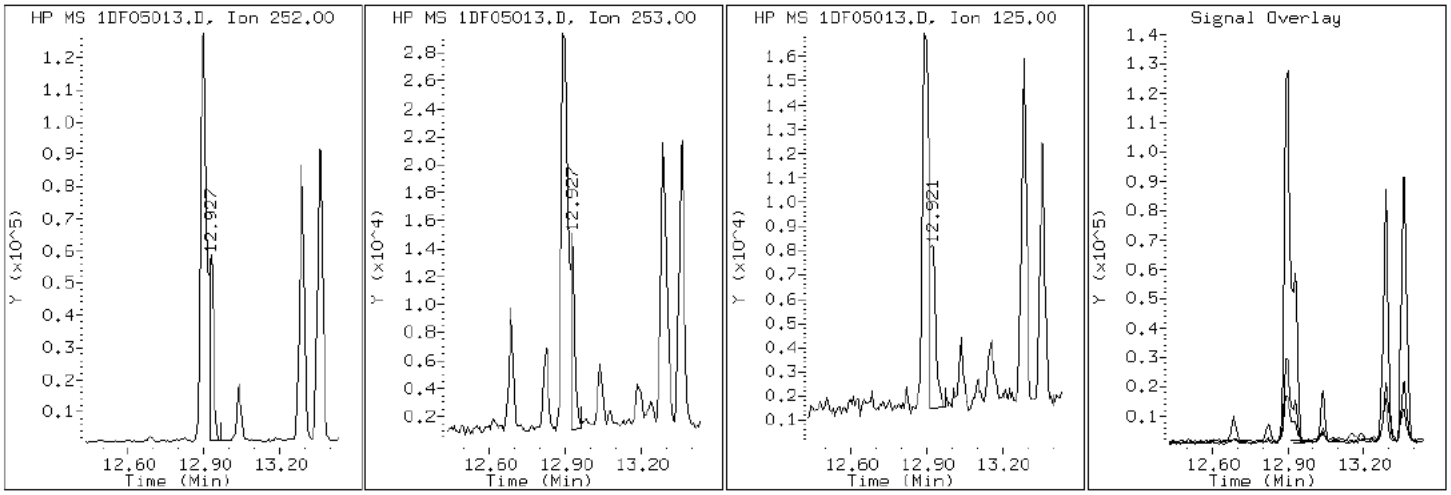
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

22 Benzo(k)fluoranthene



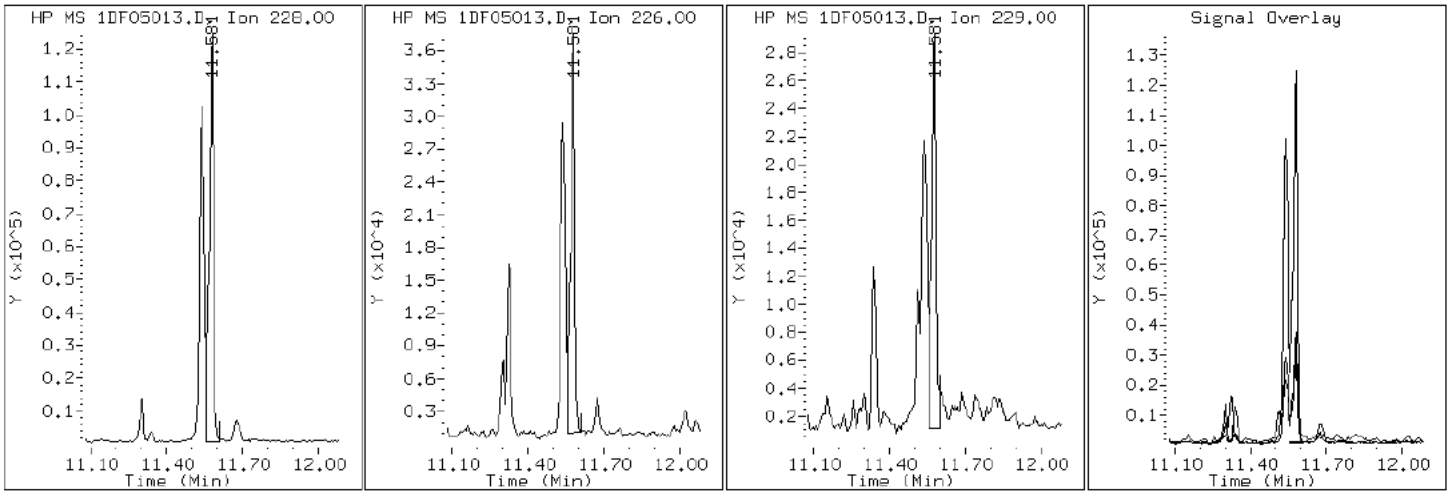
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

20 Chrysene



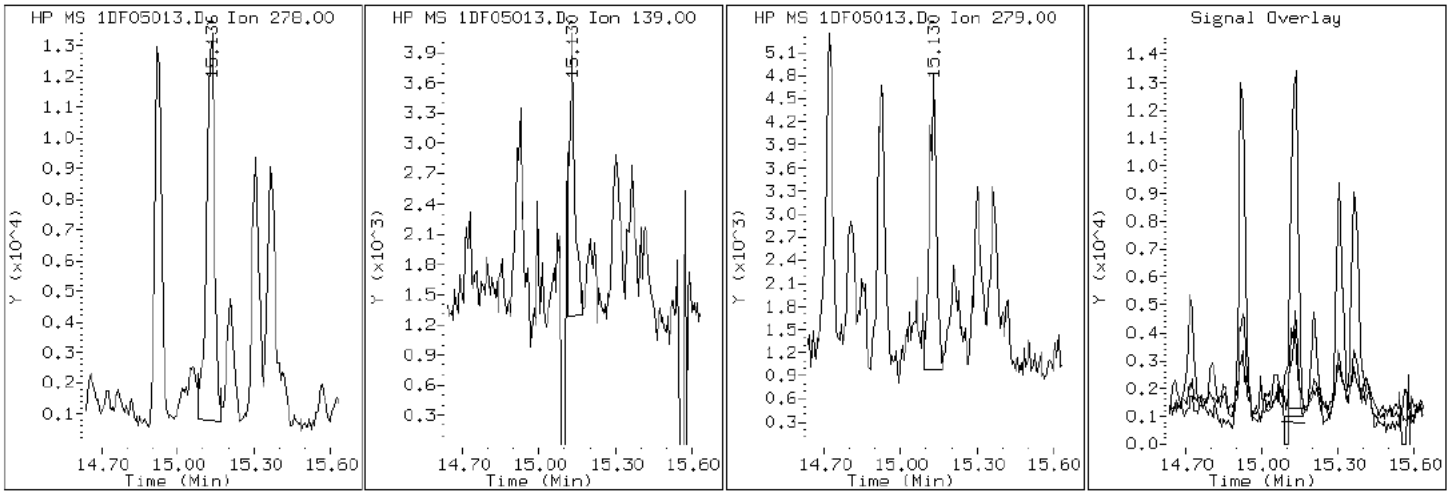
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

26 Dibenzo(a,h)anthracene



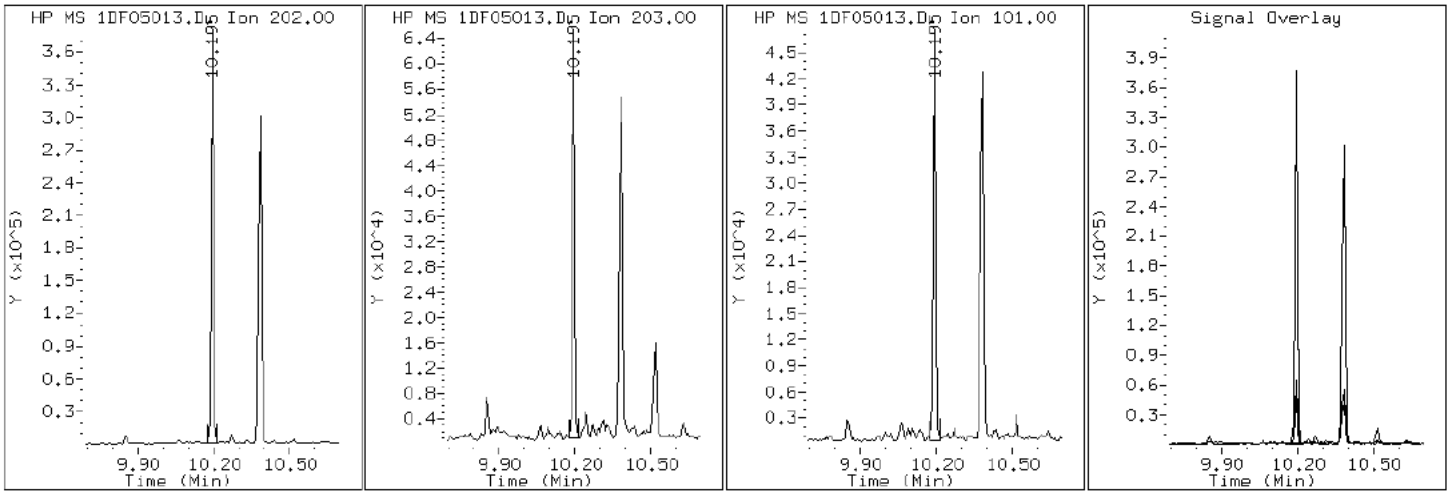
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

16 Fluoranthene



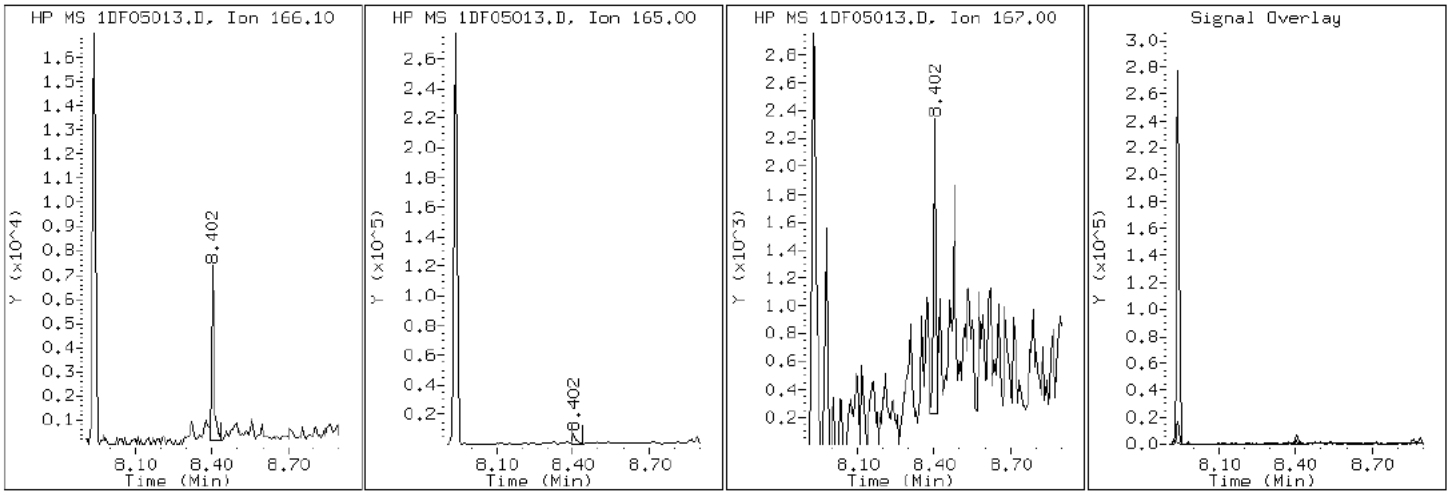
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

10 Fluorene



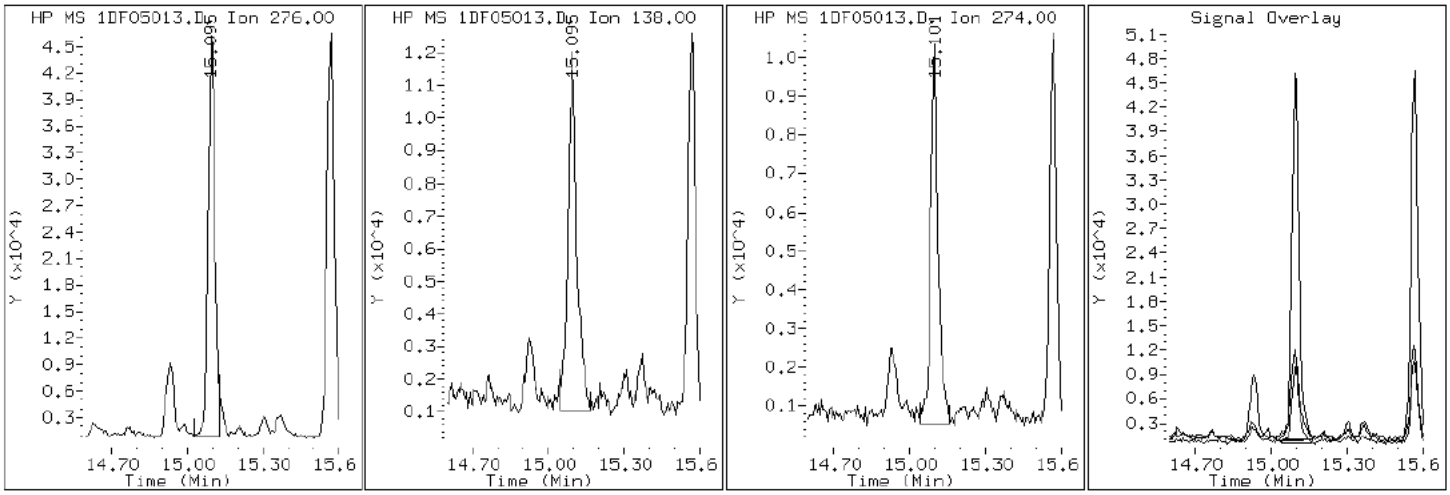
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

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



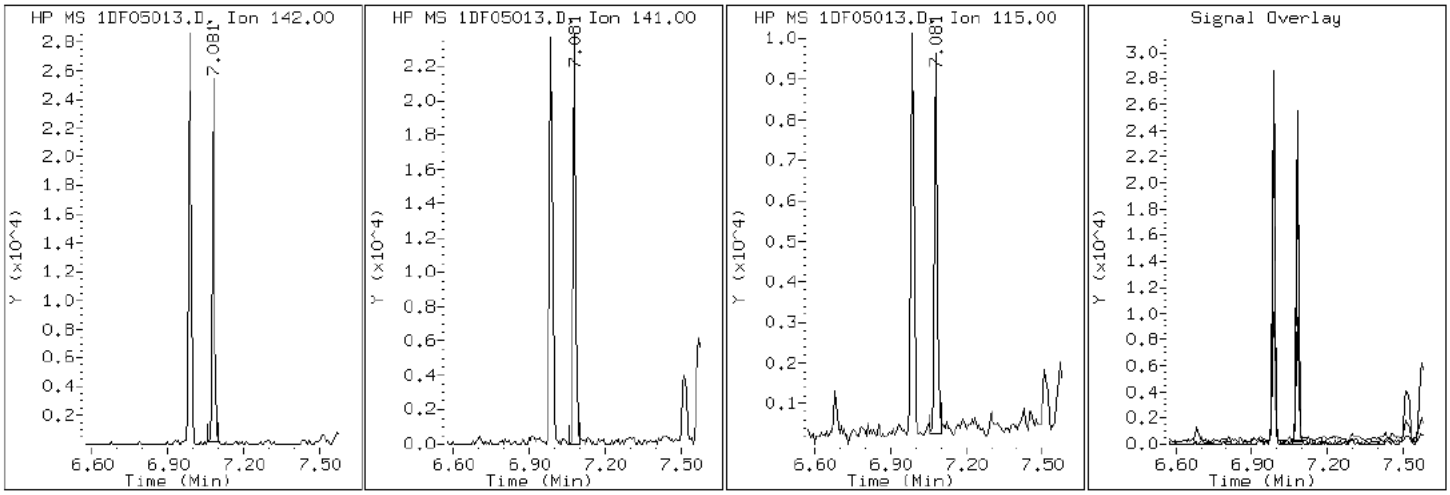
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

4 1-Methylnaphthalene



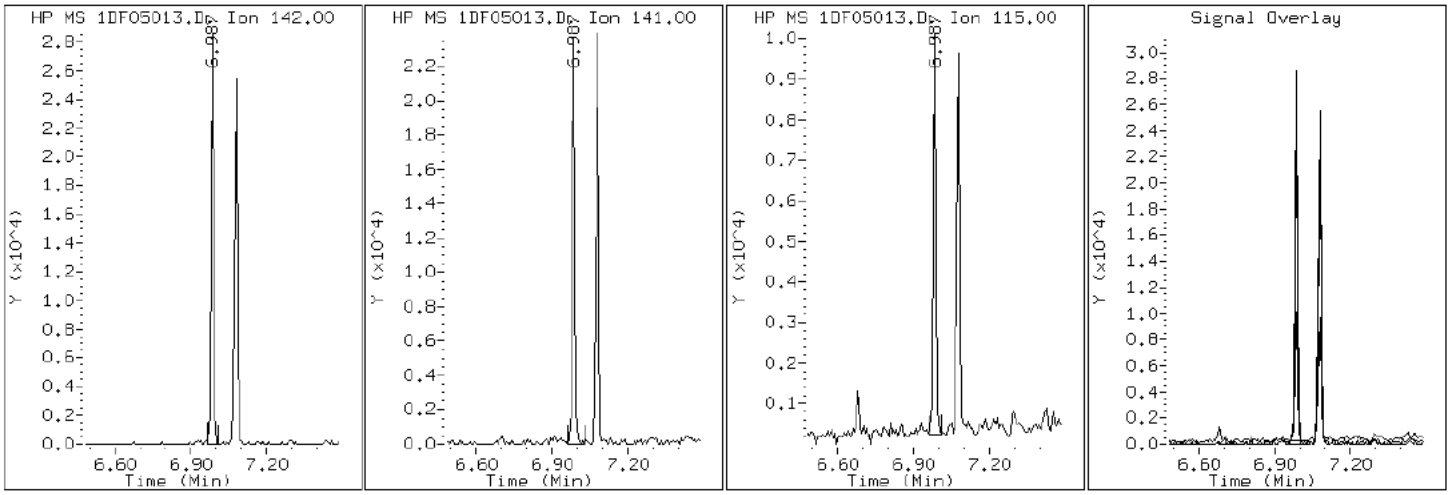
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

3 2-Methylnaphthalene



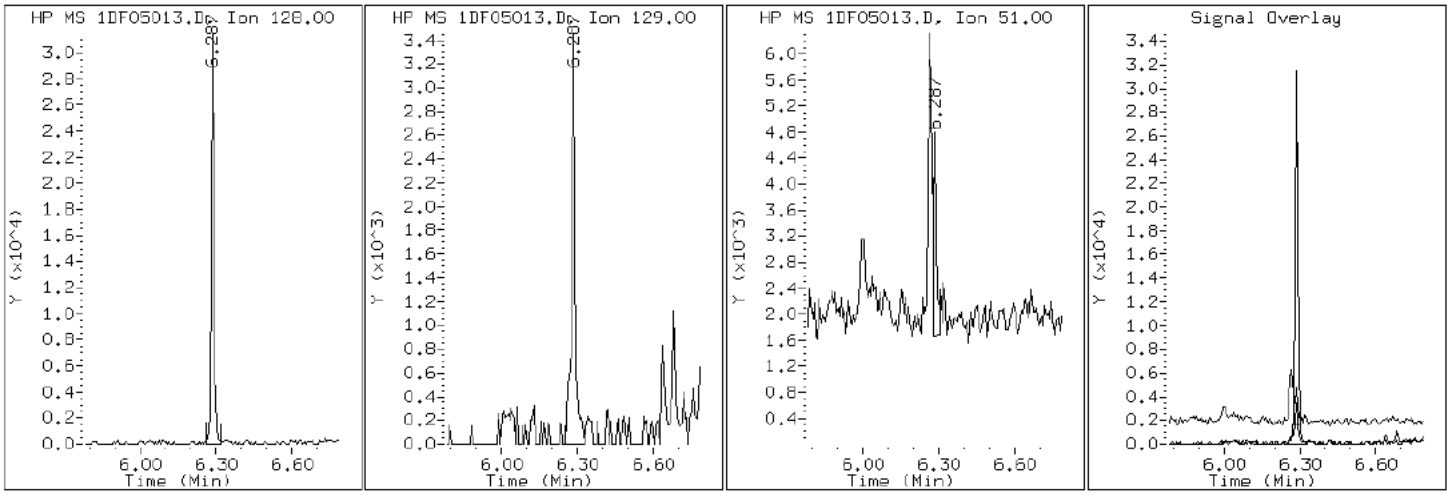
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

2 Naphthalene



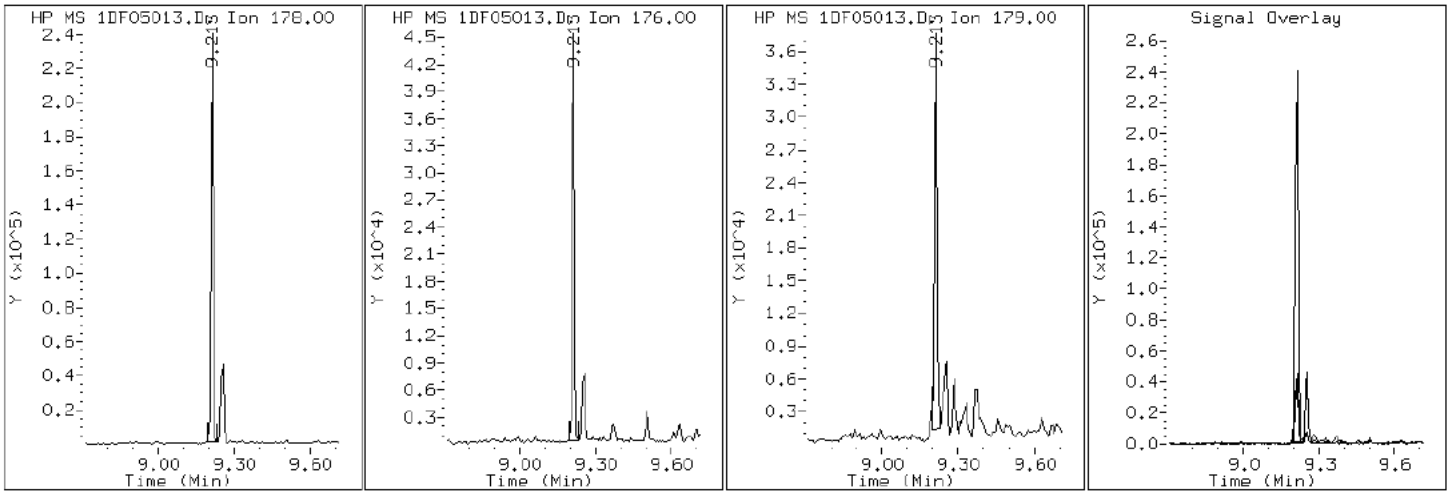
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

12 Phenanthrene



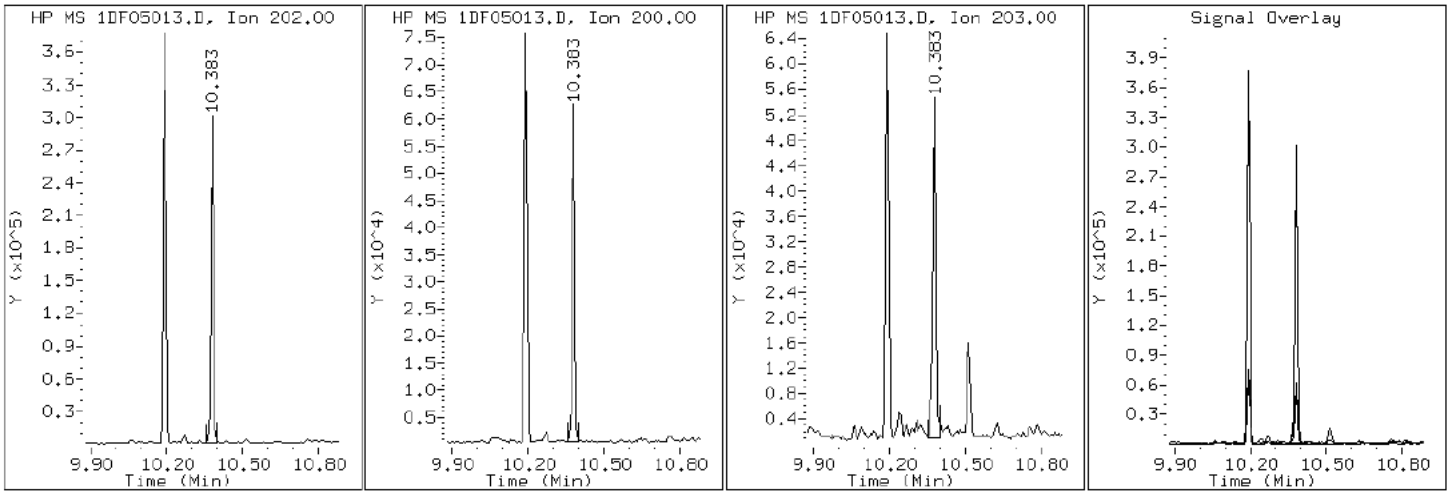
Data File: 1DF05013.D

Date: 05-JUN-2013 15:40

Client ID: CV1081A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-25-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05013.D
Inj. Date and Time: 05-JUN-2013 15:40
Instrument ID: BSMSD.i
Client ID: CV1081A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

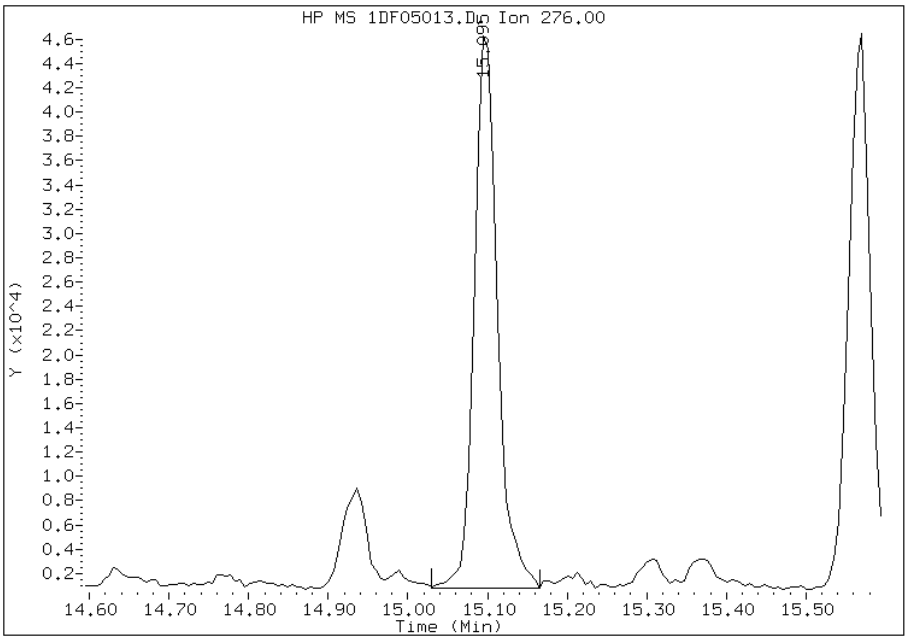
Processing Integration Results

RT: 15.09

Response: 91655

Amount: 1

Conc: 471



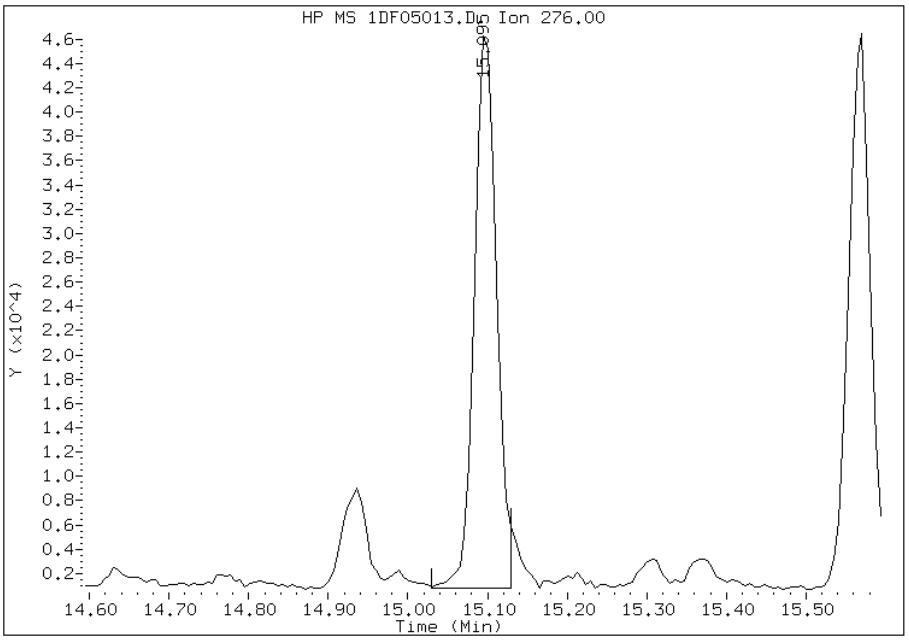
Manual Integration Results

RT: 15.09

Response: 88199

Amount: 1

Conc: 456



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV1084A-CS | Lab Sample ID: 680-90686-26

Matrix: Solid | Lab File ID: 1DF05014.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:05

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 14.96(g) | Date Analyzed: 06/05/2013 16:02

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

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

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	31	J	190	24
120-12-7	Anthracene	44		40	20
56-55-3	Benzo[a]anthracene	150		38	18
50-32-8	Benzo[a]pyrene	170		49	25
205-99-2	Benzo[b]fluoranthene	250		58	29
191-24-2	Benzo[g,h,i]perylene	120		94	21
207-08-9	Benzo[k]fluoranthene	80		38	17
218-01-9	Chrysene	200		42	21
53-70-3	Dibenz(a,h)anthracene	55	J	94	19
206-44-0	Fluoranthene	200		94	19
86-73-7	Fluorene	94	U	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	130		94	34
90-12-0	1-Methylnaphthalene	31	J	190	21
91-57-6	2-Methylnaphthalene	38	J	190	34
91-20-3	Naphthalene	31	J	190	21
85-01-8	Phenanthrene	120		38	18
129-00-0	Pyrene	180		94	17

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05014.D
Lab Smp Id: 680-90686-A-26-A Client Smp ID: CV1084A-CS
Inj Date : 05-JUN-2013 16:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-26-a
Misc Info : 680-90686-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	15.011	% 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	6.265	(1.000)	3110906	40.0000	
* 7	Acenaphthene-d10	164	7.936	7.934	(1.000)	1675868	40.0000	
* 11	Phenanthrene-d10	188	9.194	9.191	(1.000)	2633162	40.0000	
$ 15	o-Terphenyl	230	9.505	9.503	(1.034)	91685	2.37670	750
* 19	Chrysene-d12	240	11.556	11.553	(1.000)	2440970	40.0000	
* 24	Perylene-d12	264	13.465	13.457	(1.000)	2805447	40.0000	
2	Naphthalene	128	6.285	6.289	(1.003)	7449	0.09710	30
3	2-Methylnaphthalene	142	6.984	6.988	(1.114)	5935	0.12150	38
4	1-Methylnaphthalene	142	7.078	7.076	(1.129)	4982	0.09907	31
6	Acenaphthylene	152	7.807	7.811	(0.984)	6859	0.09871	31
9	Dibenzofuran	168	8.113	8.110	(1.022)	2773	0.04563	14
10	Fluorene	166	8.400	8.404	(1.058)	2049	0.04108	13
12	Phenanthrene	178	9.211	9.215	(1.002)	27721	0.38871	120
13	Anthracene	178	9.252	9.256	(1.006)	9582	0.13848	44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.192	10.196	(1.109)	45711	0.62654	200
17 Pyrene	202	10.380	10.384	(0.898)	41916	0.58652	180
18 Benzo(a)anthracene	228	11.538	11.542	(0.998)	33675	0.46485	150
20 Chrysene	228	11.579	11.583	(1.002)	40712	0.62410	200
21 Benzo(b)fluoranthene	252	12.895	12.893	(0.958)	55618	0.79135	250
22 Benzo(k)fluoranthene	252	12.925	12.934	(0.960)	18803	0.25548	80
23 Benzo(a)pyrene	252	13.359	13.363	(0.992)	31821	0.55581	170
25 Indeno(1,2,3-cd)pyrene	276	15.093	15.102	(1.121)	19681	0.41793	130(M)
26 Dibenzo(a,h)anthracene	278	15.122	15.137	(1.123)	6843	0.17403	55
27 Benzo(g,h,i)perylene	276	15.563	15.572	(1.156)	23294	0.36567	120

QC Flag Legend

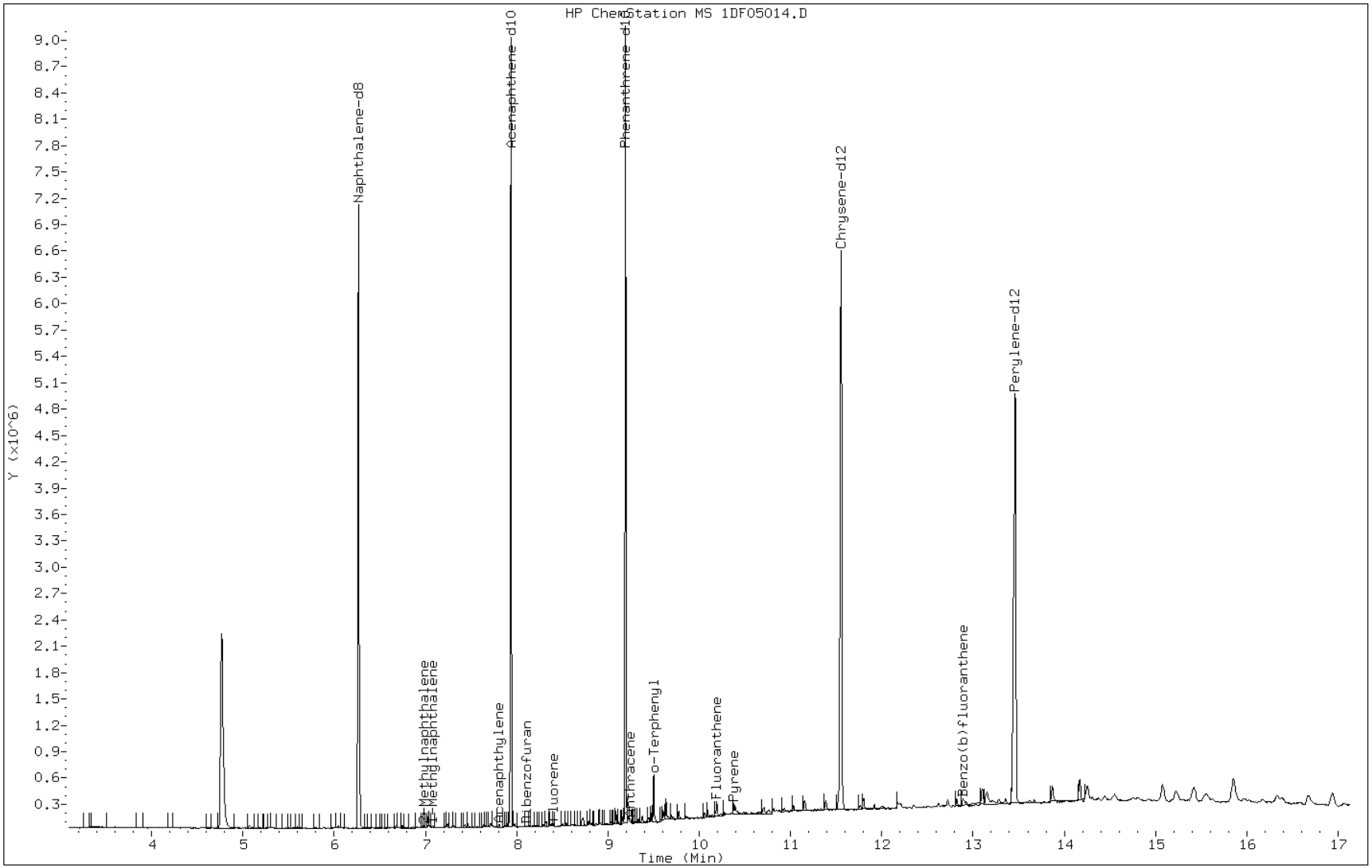
M - Compound response manually integrated.

Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC



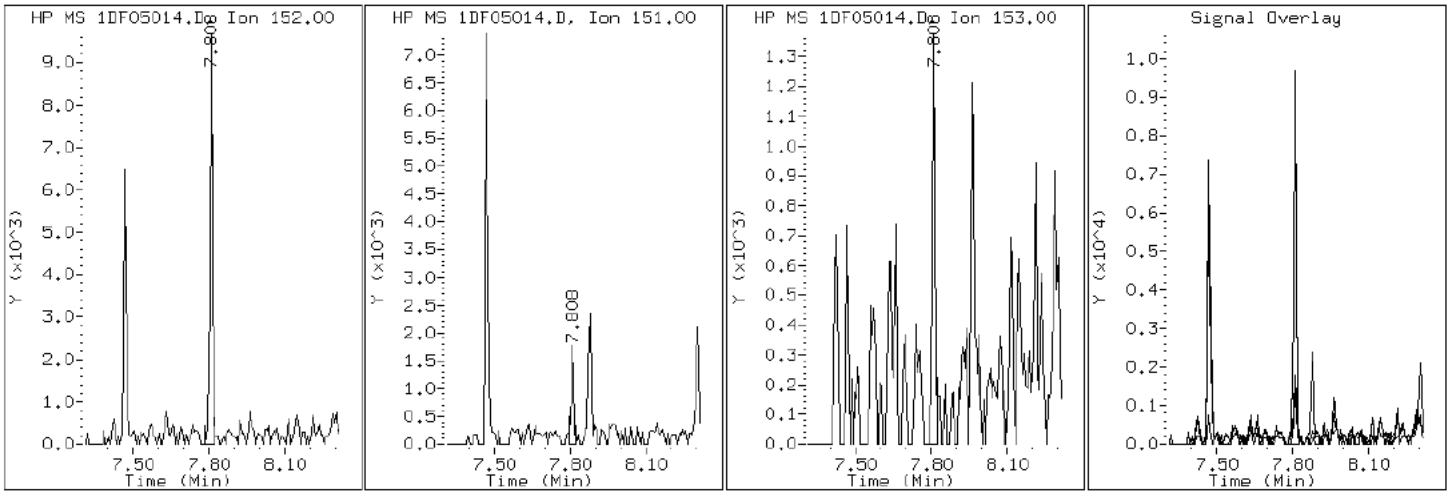
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

6 Acenaphthylene



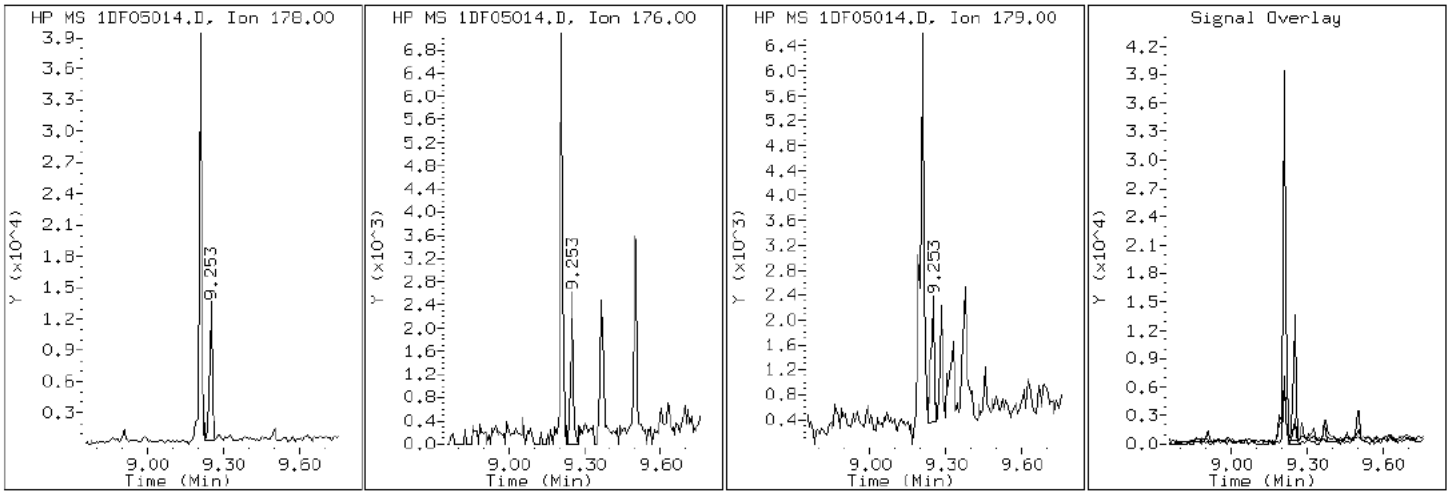
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

13 Anthracene



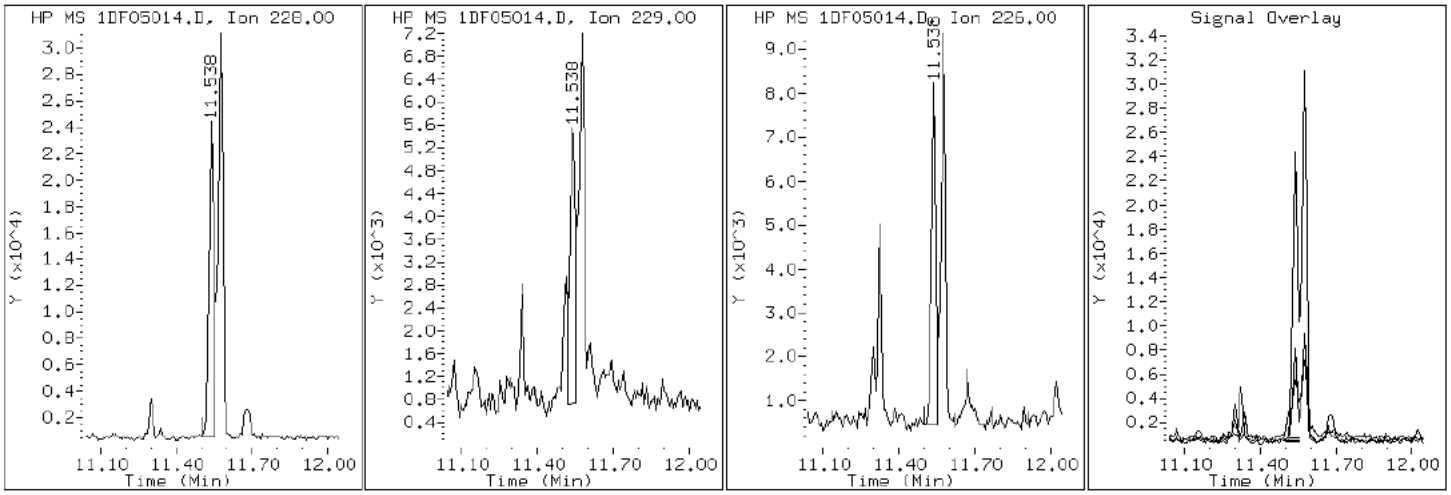
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

18 Benzo(a)anthracene



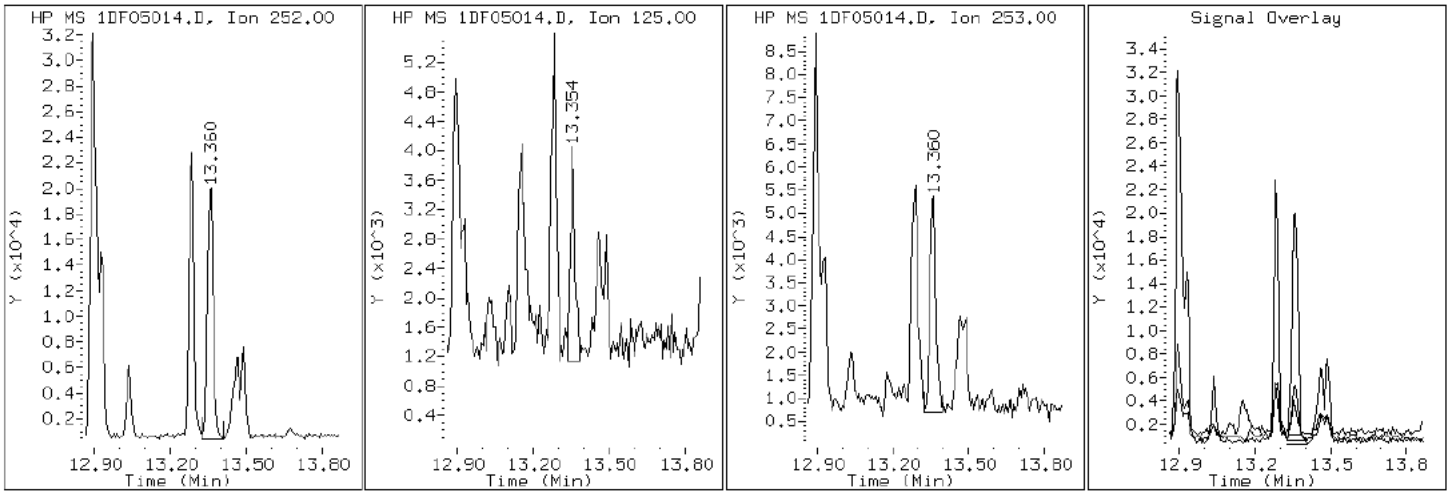
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

23 Benzo(a)pyrene



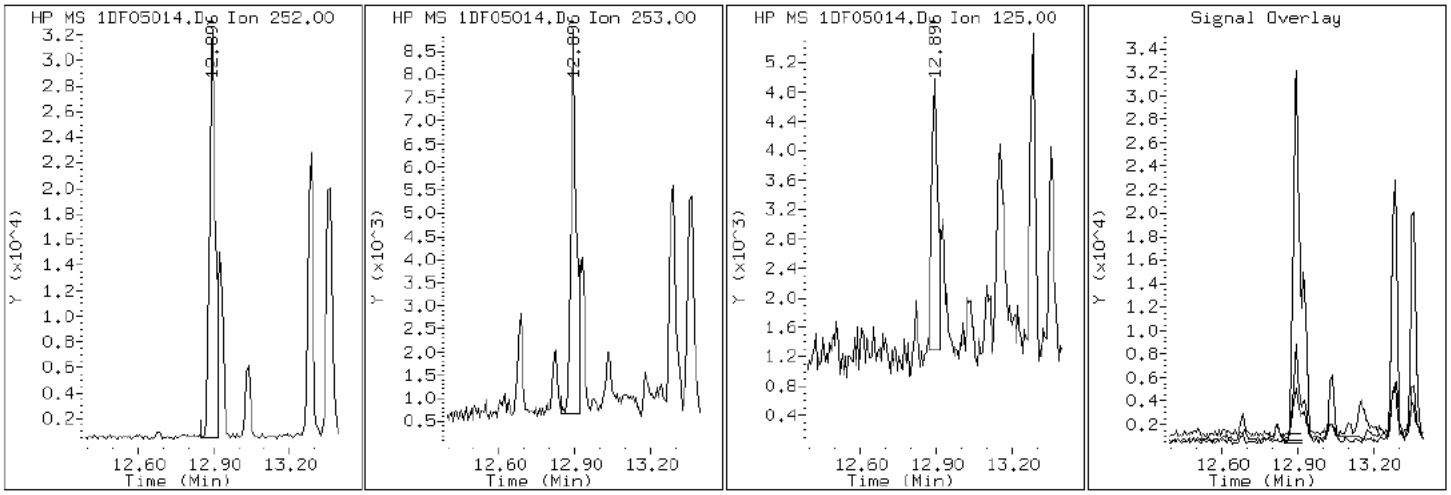
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

21 Benzo(b)fluoranthene



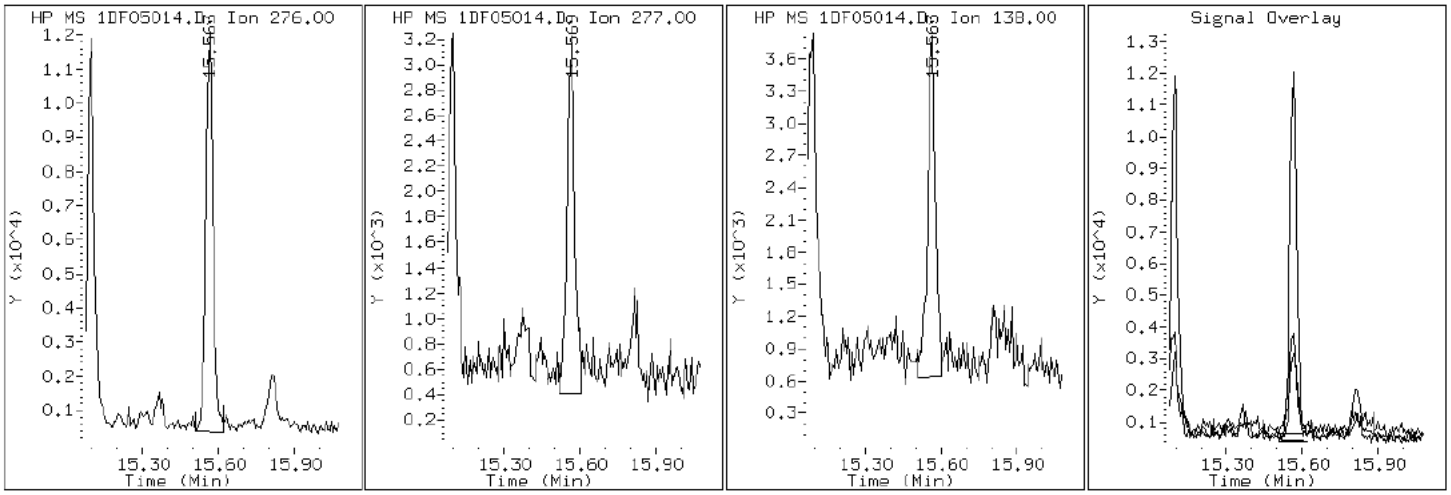
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

27 Benzo(g,h,i)perylene



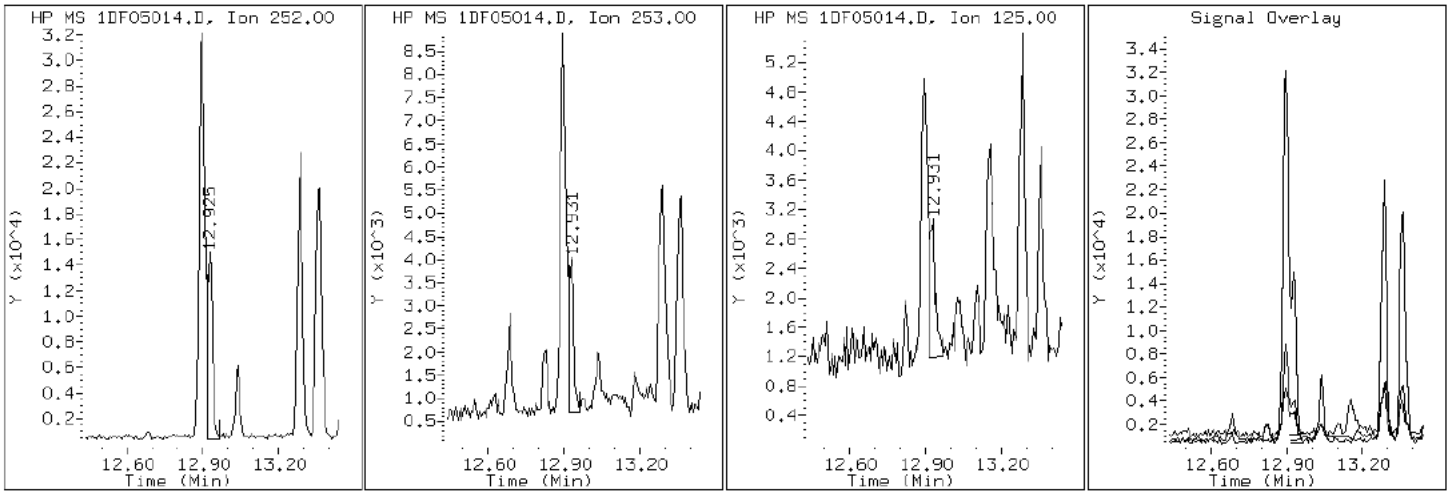
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

22 Benzo(k)fluoranthene



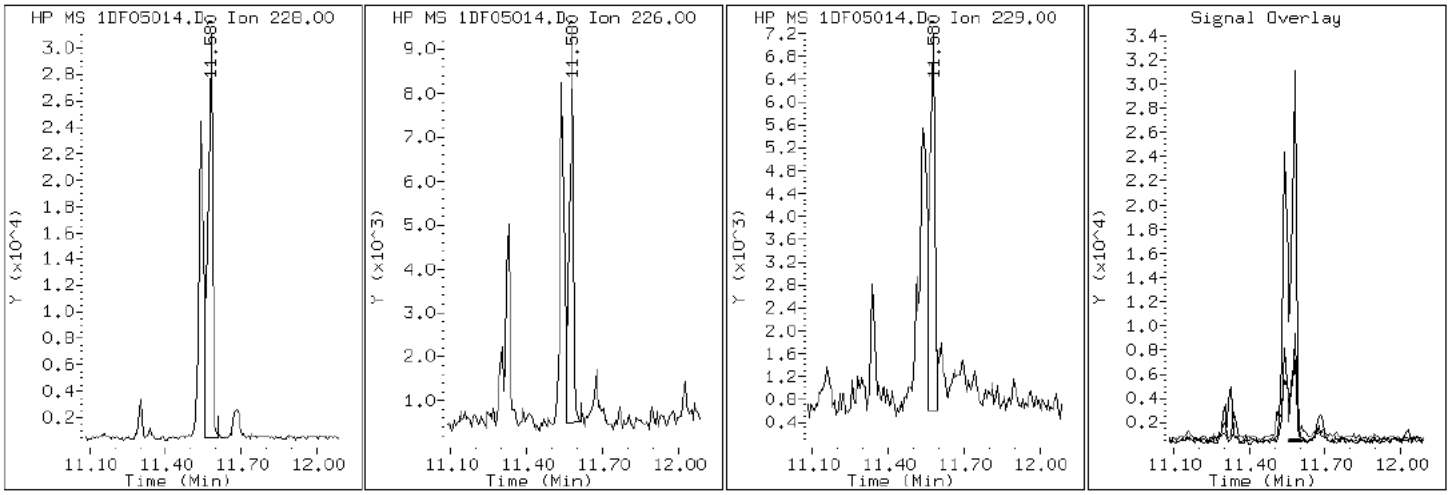
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

20 Chrysene



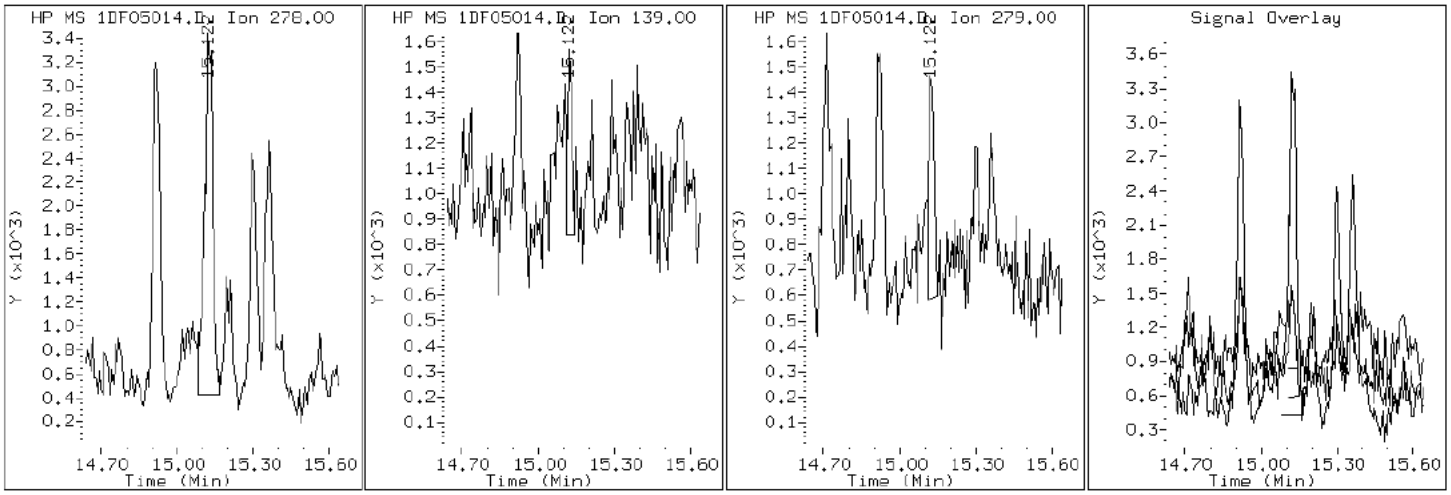
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

26 Dibenzo(a,h)anthracene



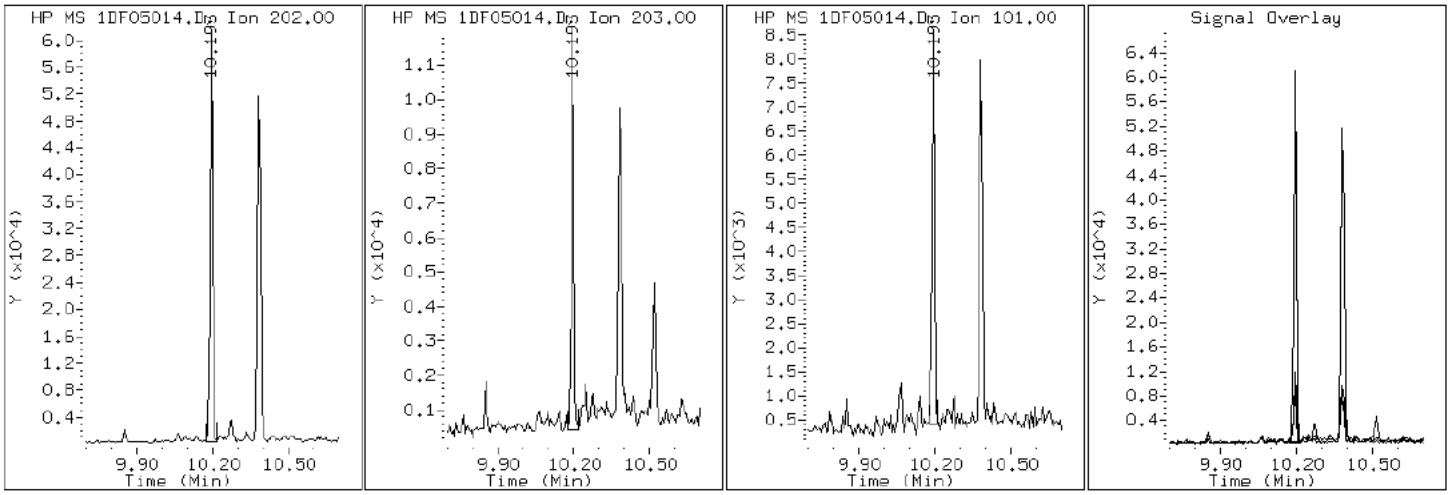
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

16 Fluoranthene



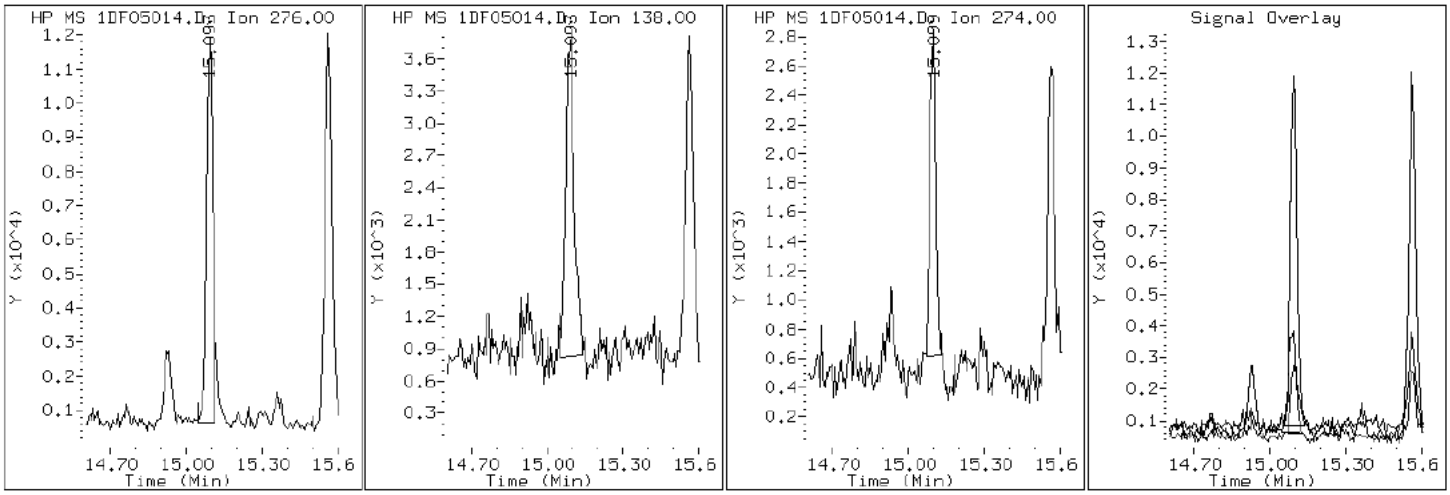
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

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



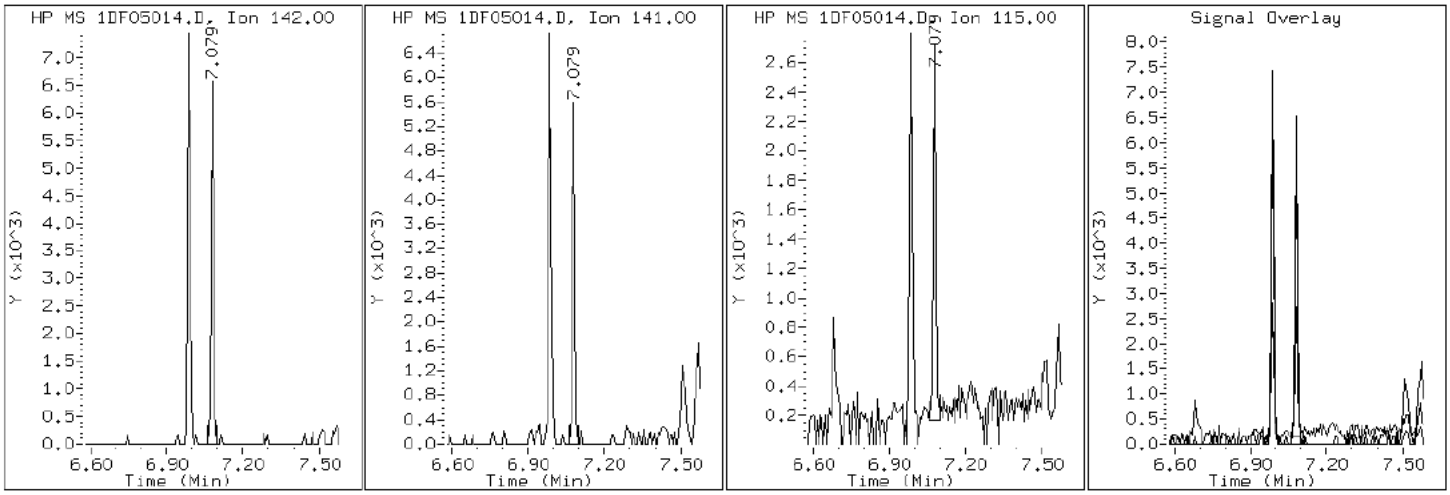
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

4 1-Methylnaphthalene



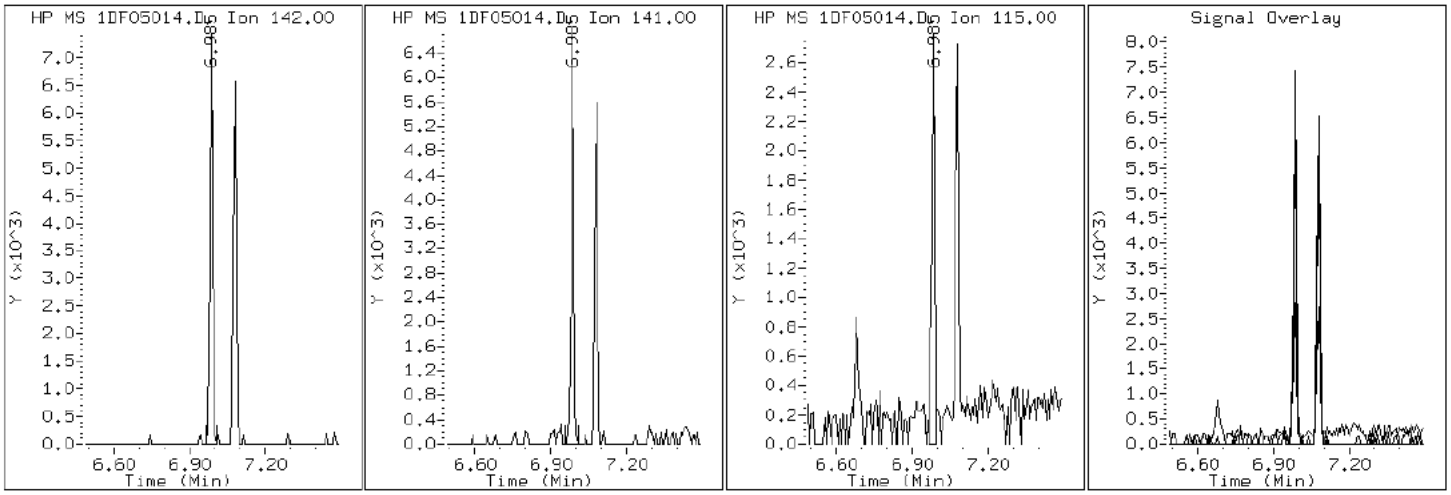
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

3 2-Methylnaphthalene



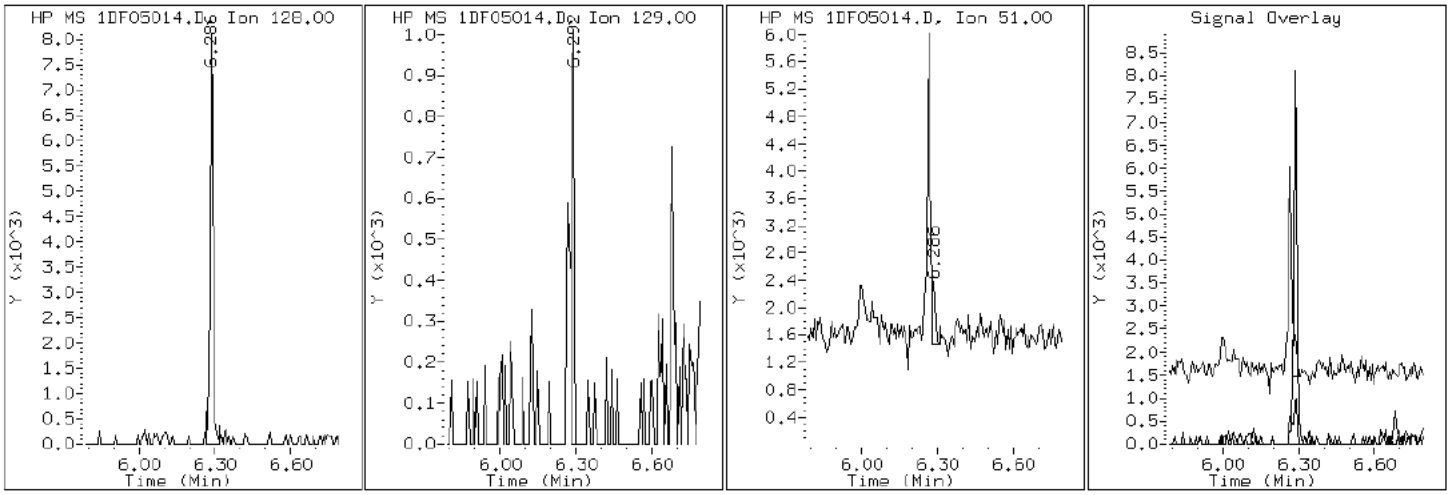
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

2 Naphthalene



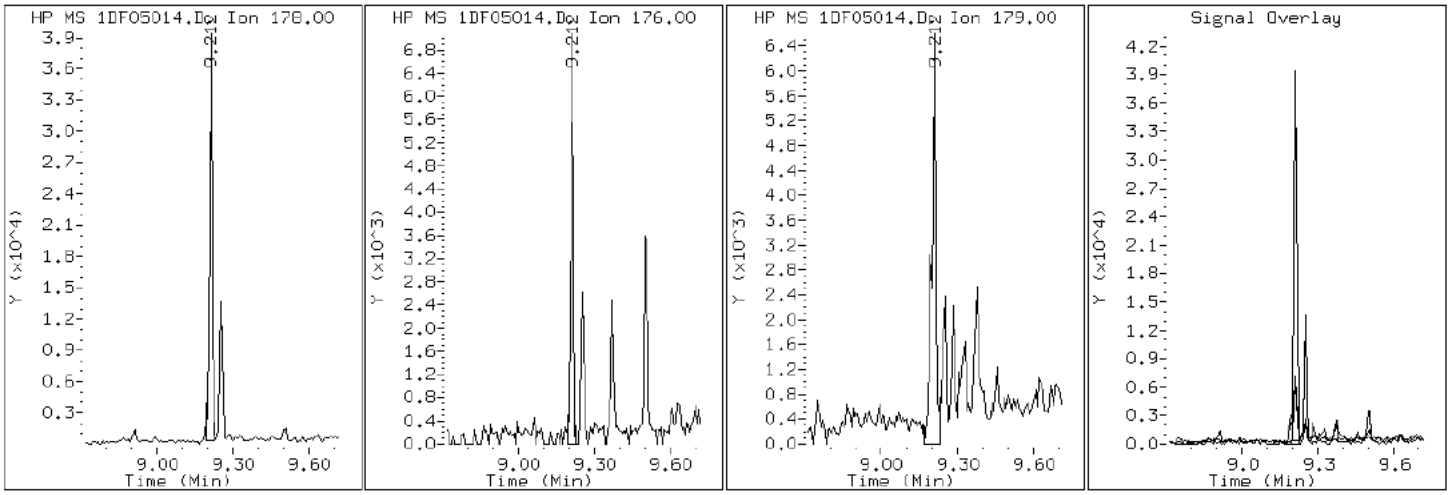
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

12 Phenanthrene



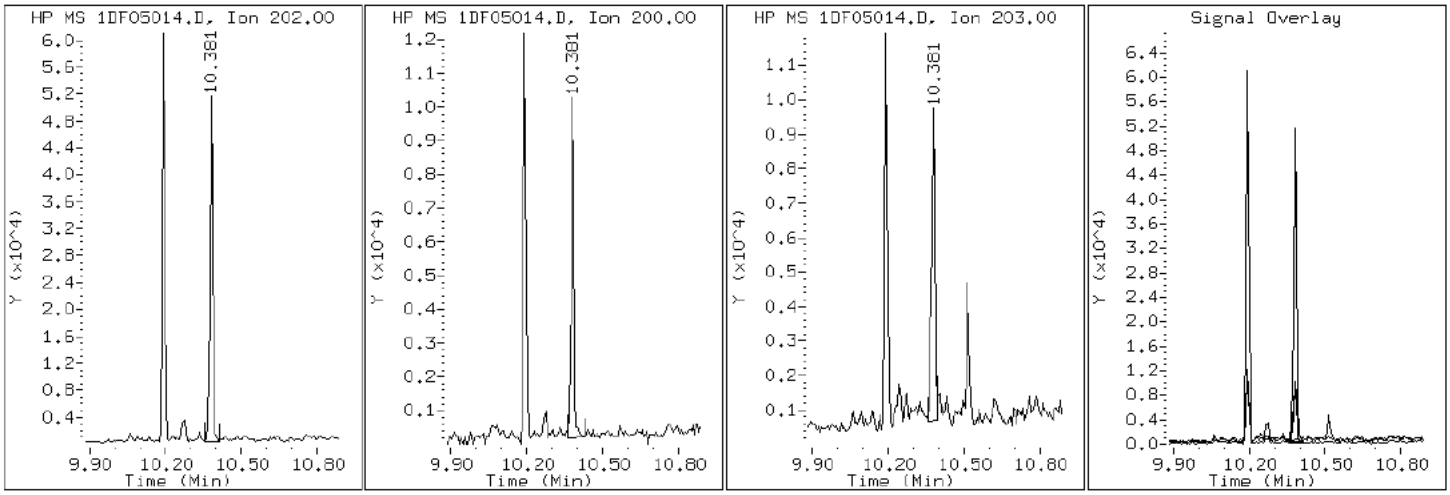
Data File: 1DF05014.D

Date: 05-JUN-2013 16:02

Client ID: CV1084A-CS Instrument: BSMSD.i

Sample Info: 680-90686-a-26-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05014.D
Inj. Date and Time: 05-JUN-2013 16:02
Instrument ID: BSMSD.i
Client ID: CV1084A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

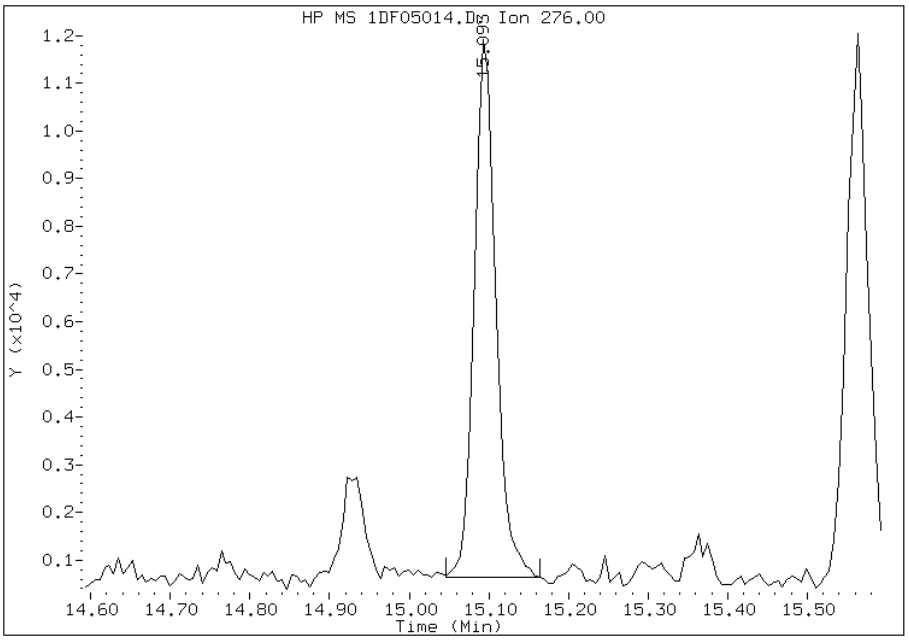
Processing Integration Results

RT: 15.09

Response: 21062

Amount: 0

Conc: 137



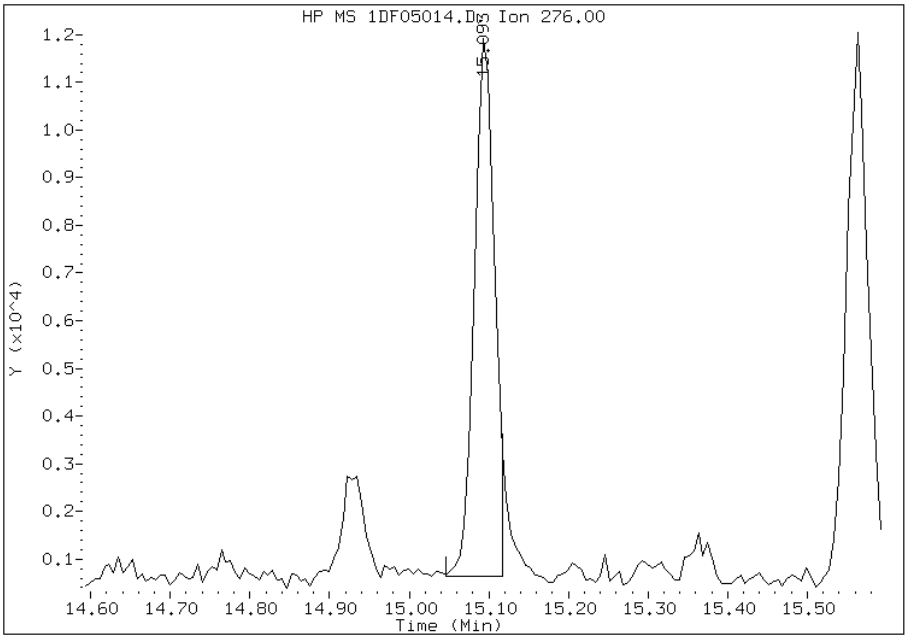
Manual Integration Results

RT: 15.09

Response: 19681

Amount: 0

Conc: 131



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV0950A-CS-SP | Lab Sample ID: 680-90686-27

Matrix: Solid | Lab File ID: 1DF05015.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 13:07

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.07(g) | Date Analyzed: 06/05/2013 16:25

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

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

% Moisture: 32.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	53	J	240	30
120-12-7	Anthracene	170		50	25
56-55-3	Benzo[a]anthracene	480		47	23
50-32-8	Benzo[a]pyrene	490		61	31
205-99-2	Benzo[b]fluoranthene	800		72	36
191-24-2	Benzo[g,h,i]perylene	310		120	26
207-08-9	Benzo[k]fluoranthene	260		47	21
218-01-9	Chrysene	620		53	27
53-70-3	Dibenz(a,h)anthracene	130		120	24
206-44-0	Fluoranthene	840		120	24
86-73-7	Fluorene	67	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	350		120	42
90-12-0	1-Methylnaphthalene	120	J	240	26
91-57-6	2-Methylnaphthalene	170	J	240	42
91-20-3	Naphthalene	170	J	240	26
85-01-8	Phenanthrene	640		47	23
129-00-0	Pyrene	700		120	22

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\1D060513.b\1DF05015.D
Lab Smp Id: 680-90686-C-27-A Client Smp ID: CV0950A-CS-SP
Inj Date : 05-JUN-2013 16:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-c-27-a
Misc Info : 680-90686-C-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	32.636	% 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	6.265	(1.000)	3432821	40.0000	
*	7 Acenaphthene-d10	164	7.938	7.934	(1.000)	1824005	40.0000	
*	11 Phenanthrene-d10	188	9.195	9.191	(1.000)	2838613	40.0000	
$	15 o-Terphenyl	230	9.501	9.503	(1.033)	72311	1.73881	680
*	19 Chrysene-d12	240	11.557	11.553	(1.000)	2536300	40.0000	
*	24 Perylene-d12	264	13.467	13.457	(1.000)	2939519	40.0000	
	2 Naphthalene	128	6.287	6.289	(1.003)	36089	0.42631	170
	3 2-Methylnaphthalene	142	6.986	6.988	(1.114)	23239	0.43114	170
	4 1-Methylnaphthalene	142	7.080	7.076	(1.129)	16643	0.29992	120
	5 1,1'-Biphenyl	154	7.421	7.423	(0.935)	6240	0.10126	40
	6 Acenaphthylene	152	7.808	7.811	(0.984)	10098	0.13353	53
	9 Dibenzofuran	168	8.108	8.110	(1.021)	12385	0.18723	74
	10 Fluorene	166	8.402	8.404	(1.058)	9184	0.16919	67
	12 Phenanthrene	178	9.213	9.215	(1.002)	125401	1.63115	640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.254	9.256	(1.006)	32023	0.42930	170
16 Fluoranthene	202	10.194	10.196	(1.109)	168410	2.14126	840
17 Pyrene	202	10.382	10.384	(0.898)	131952	1.77697	700
18 Benzo(a)anthracene	228	11.539	11.542	(0.998)	92266	1.22577	480
20 Chrysene	228	11.580	11.583	(1.002)	106608	1.57283	620
21 Benzo(b)fluoranthene	252	12.897	12.893	(0.958)	149385	2.02854	800
22 Benzo(k)fluoranthene	252	12.932	12.934	(0.960)	51588	0.66895	260
23 Benzo(a)pyrene	252	13.361	13.363	(0.992)	83864	1.24880	490
25 Indeno(1,2,3-cd)pyrene	276	15.094	15.102	(1.121)	55659	0.87649	340(M)
26 Dibenzo(a,h)anthracene	278	15.129	15.137	(1.123)	17740	0.32448	130
27 Benzo(g,h,i)perylene	276	15.564	15.572	(1.156)	52674	0.78917	310

QC Flag Legend

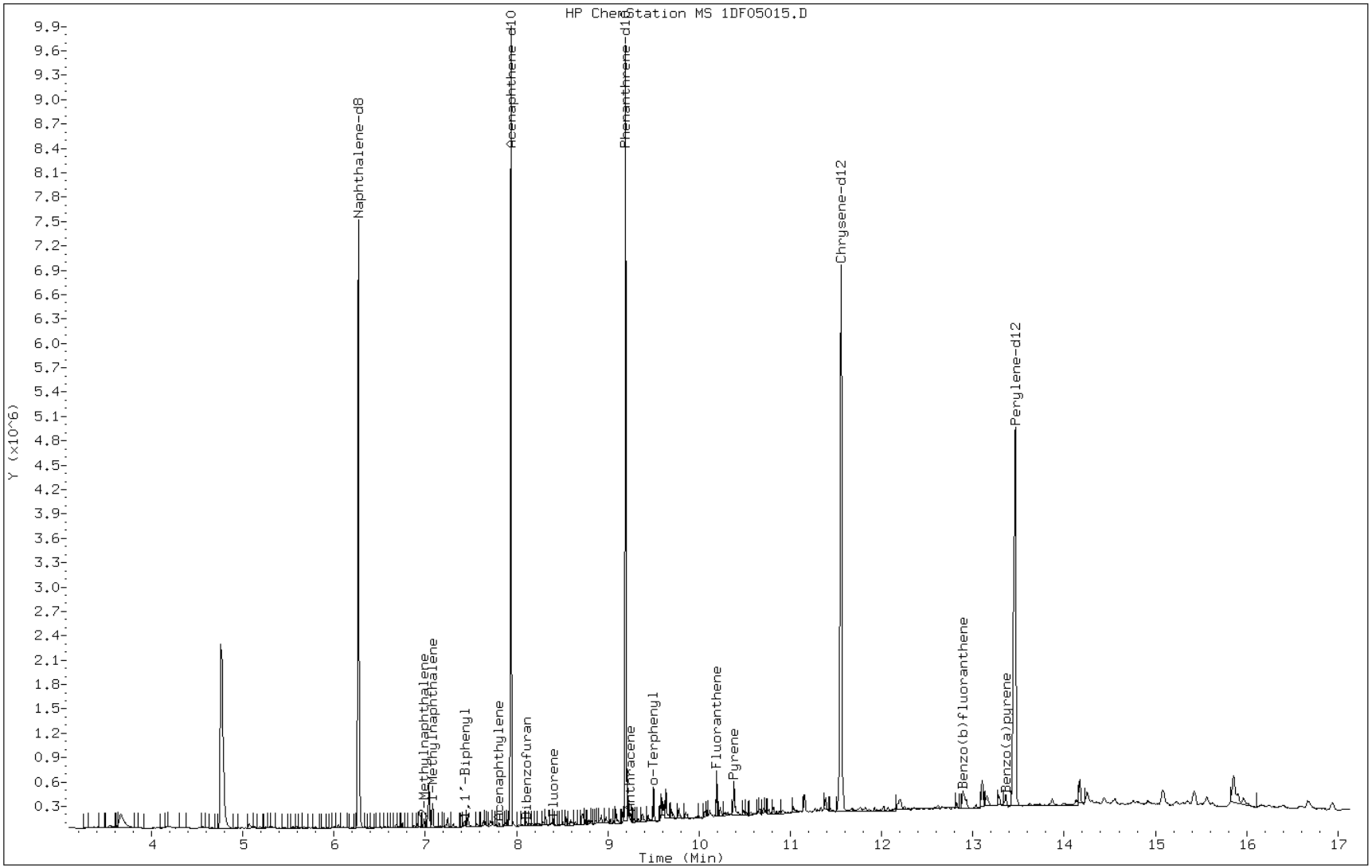
M - Compound response manually integrated.

Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC



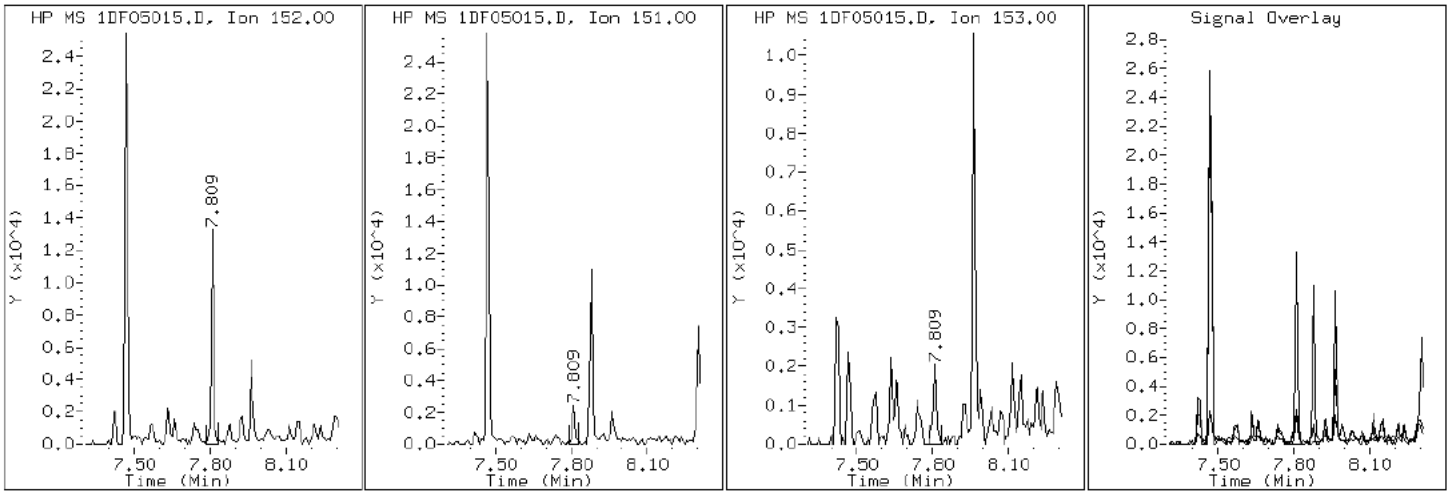
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

6 Acenaphthylene



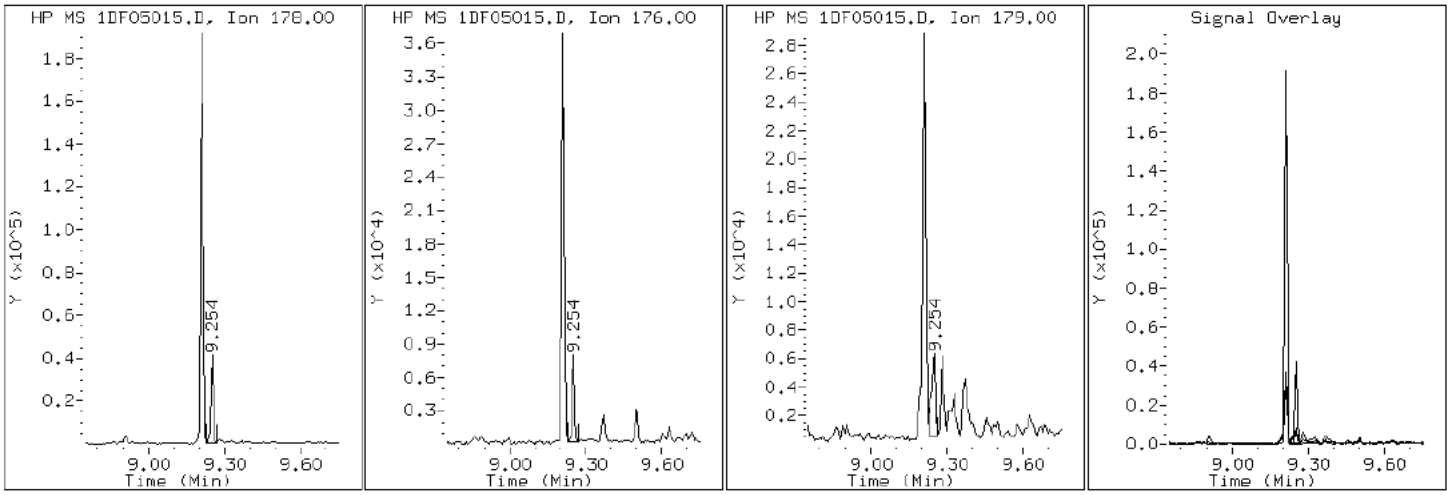
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

13 Anthracene



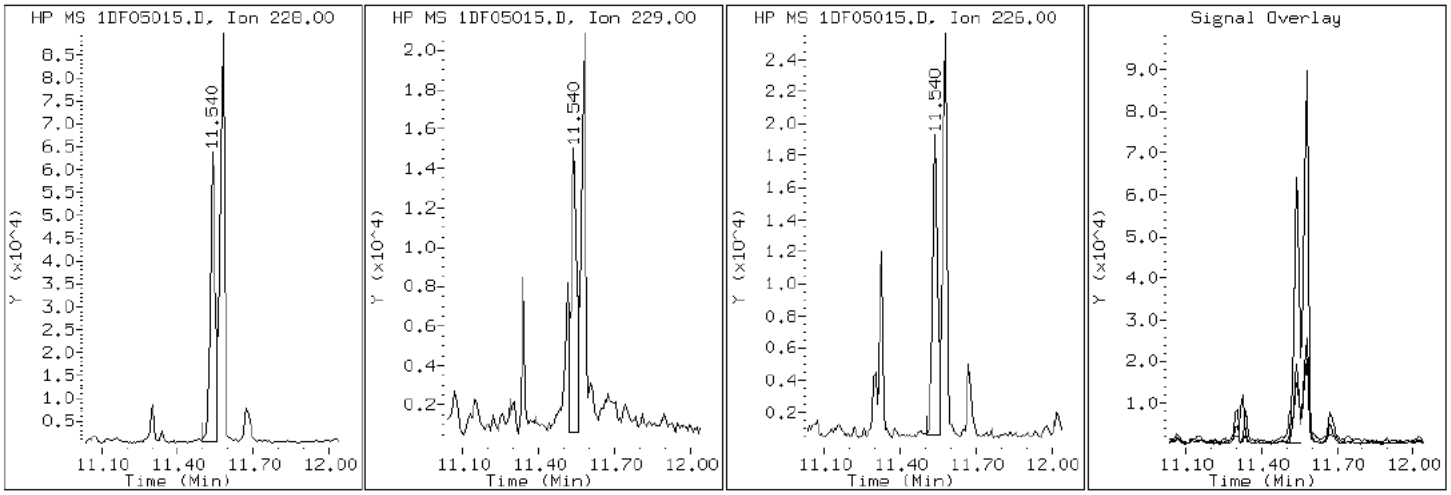
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

18 Benzo(a)anthracene



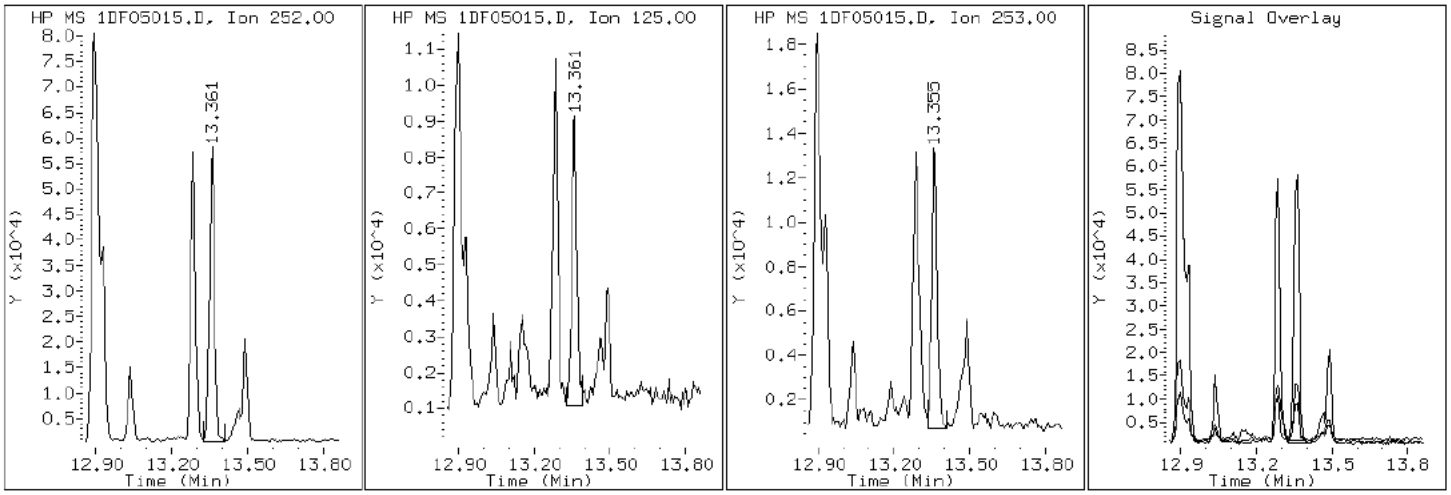
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

23 Benzo(a)pyrene



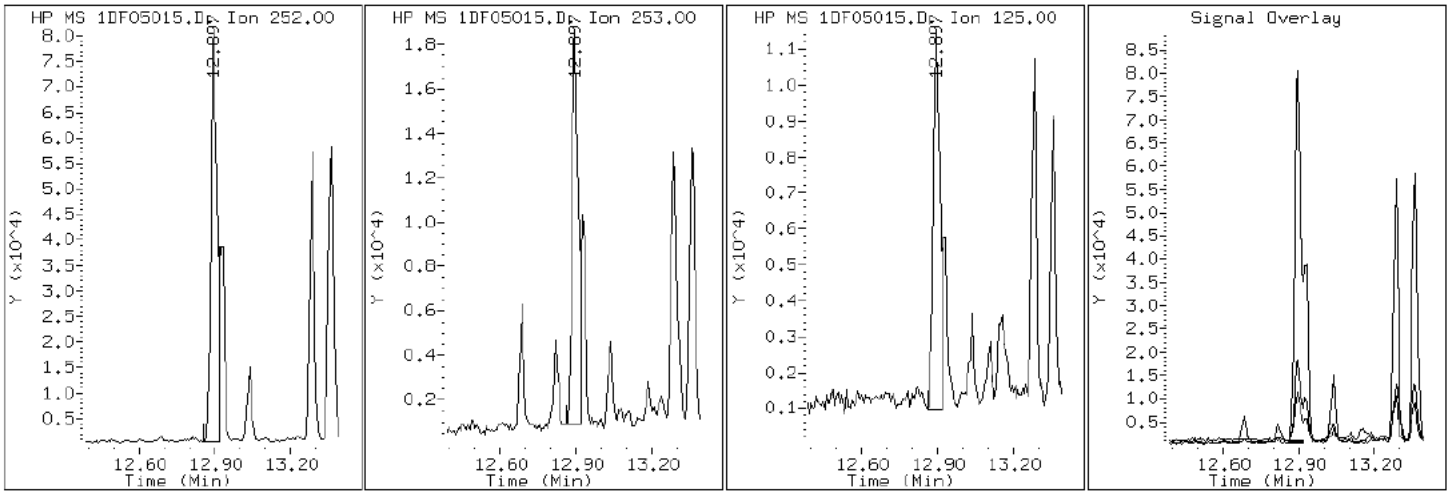
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

21 Benzo(b)fluoranthene



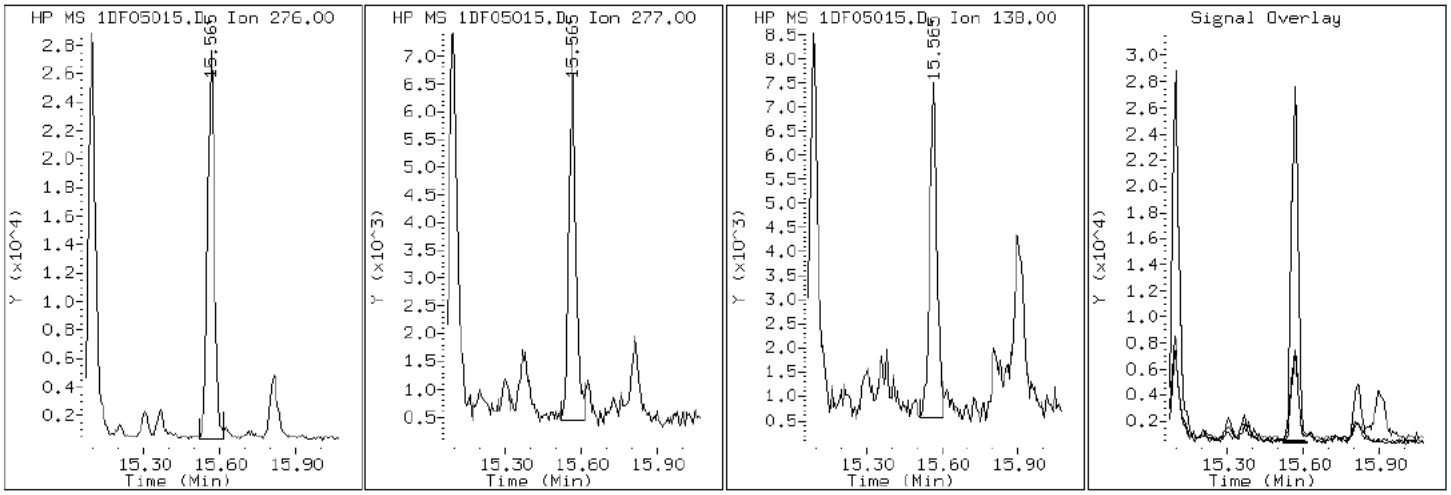
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

27 Benzo(g,h,i)perylene



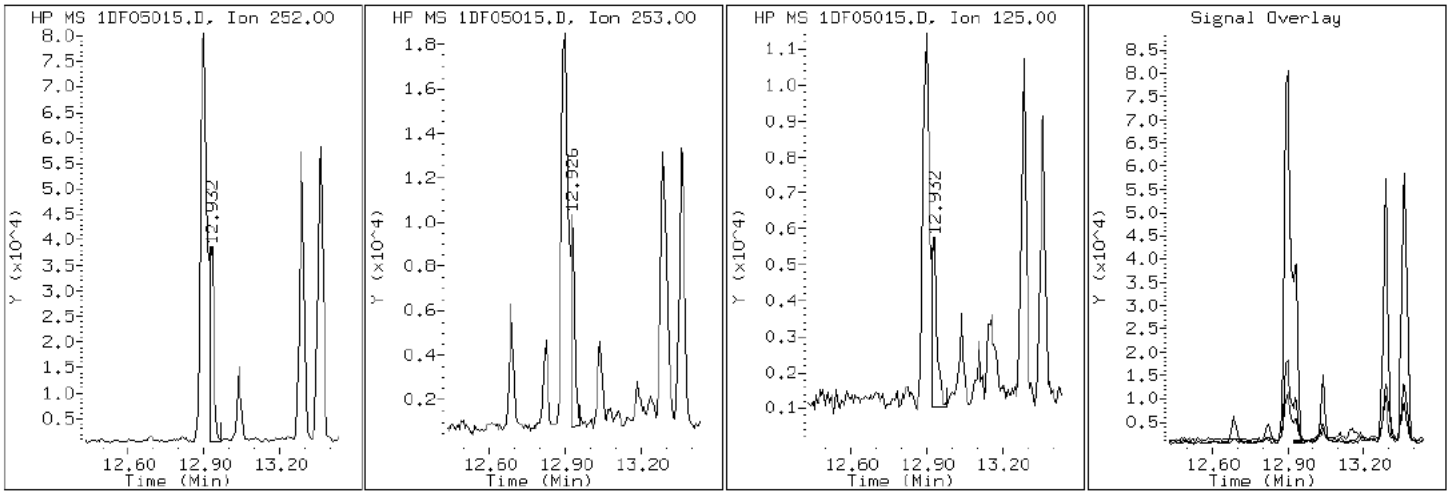
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

22 Benzo(k)fluoranthene



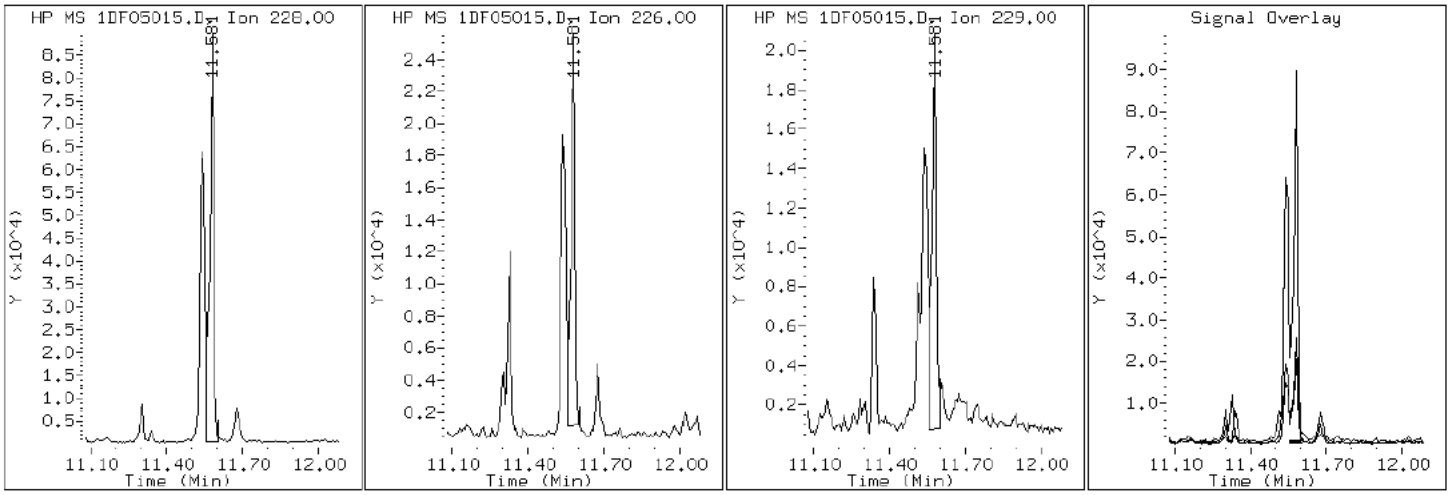
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

20 Chrysene



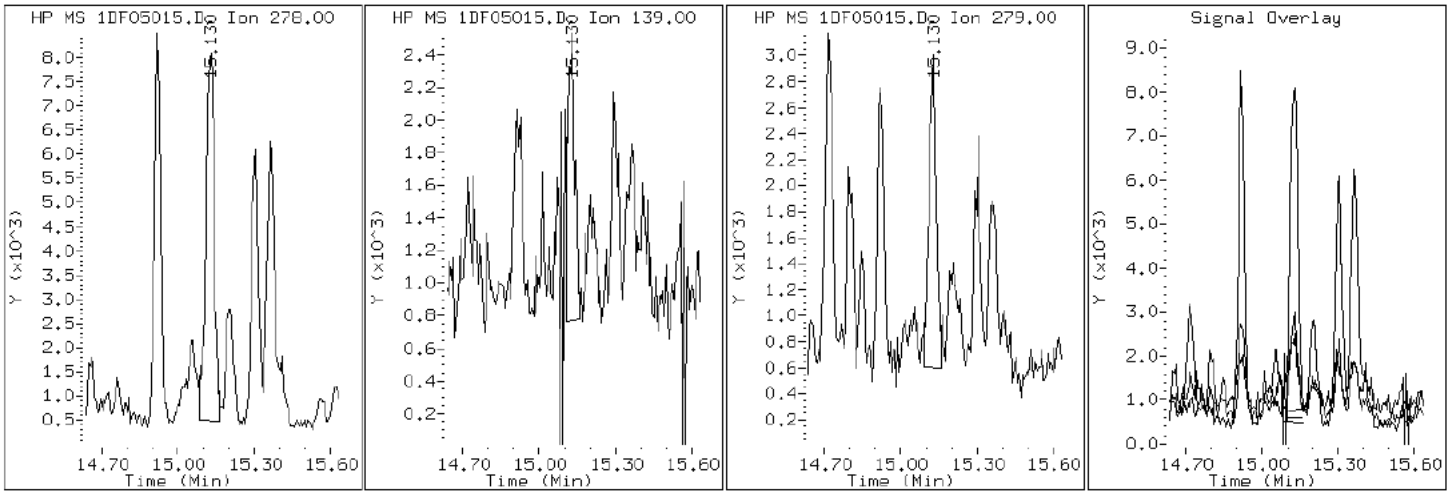
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

26 Dibenzo(a,h)anthracene



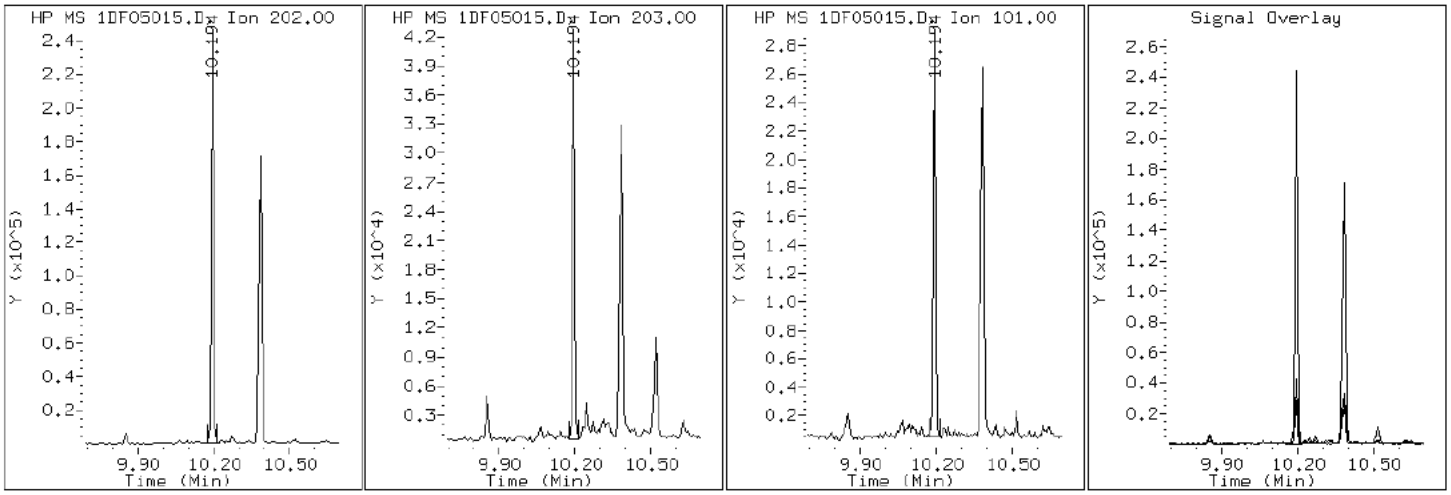
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

16 Fluoranthene



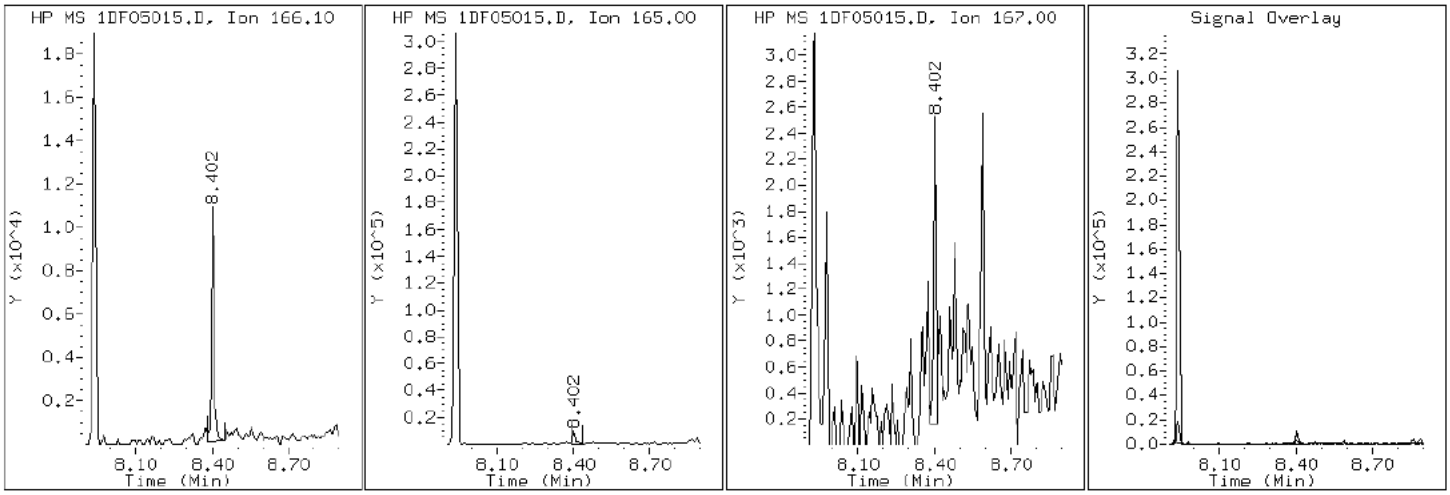
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

10 Fluorene



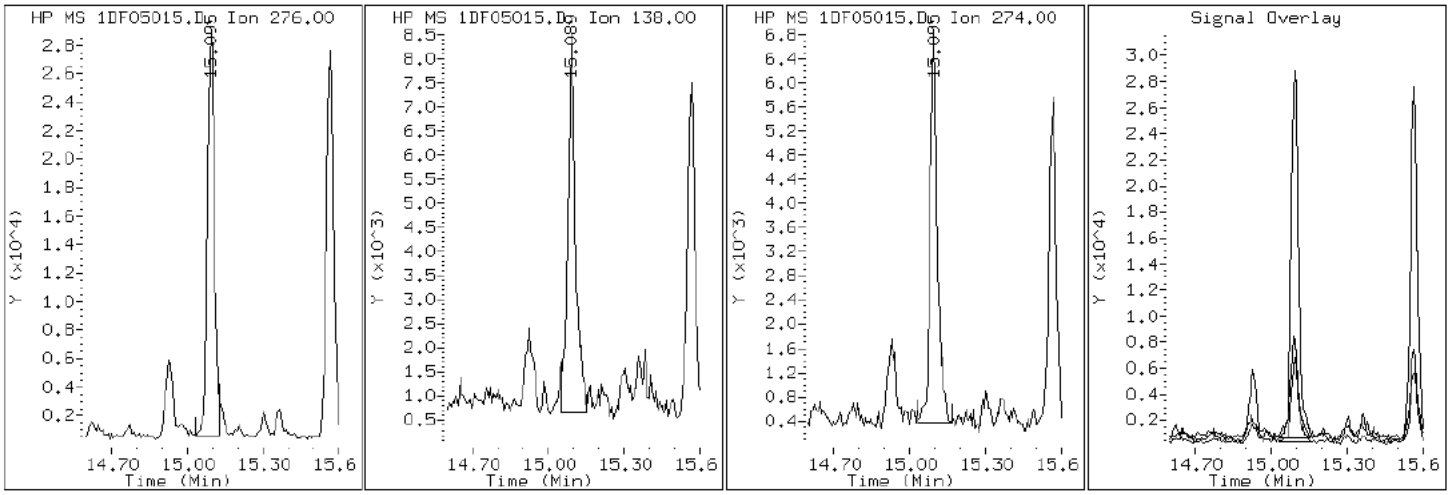
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

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



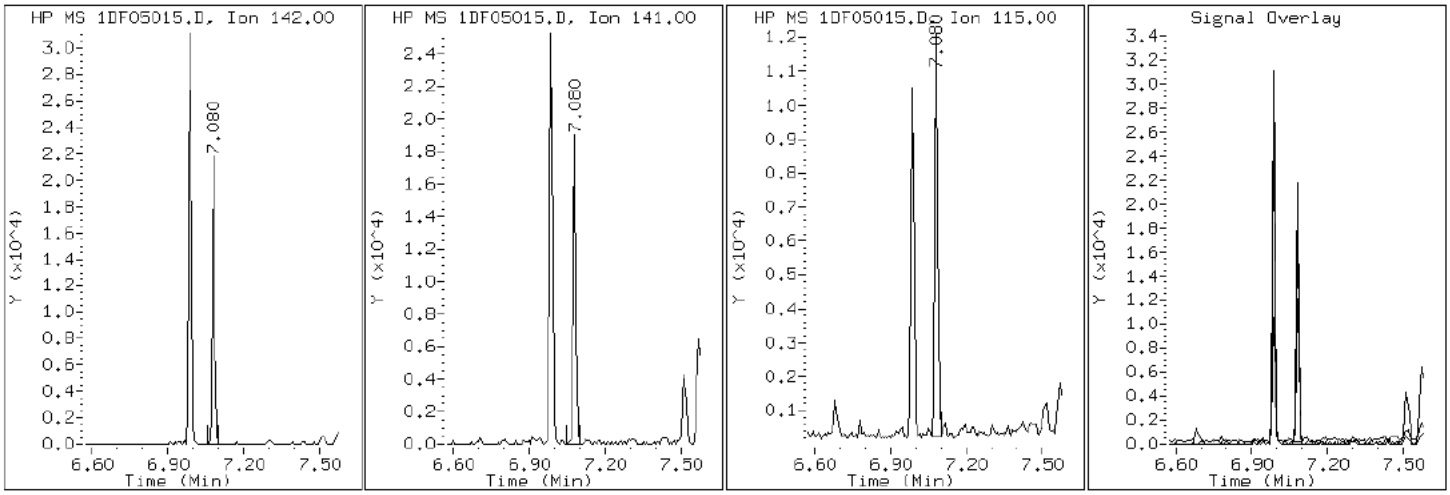
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

4 1-Methylnaphthalene



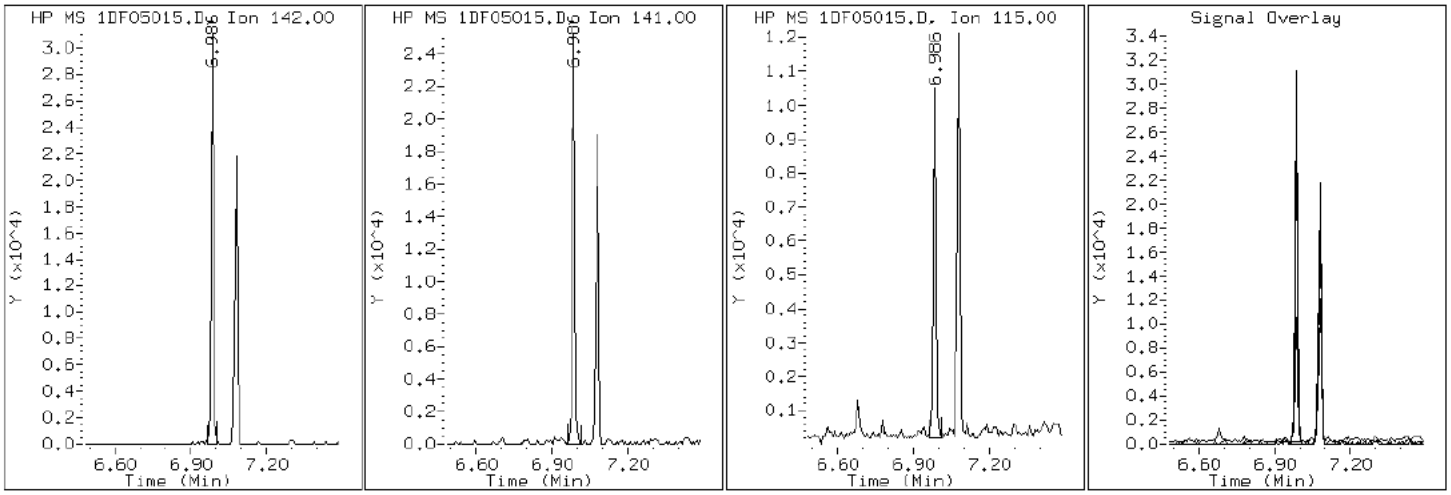
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

3 2-Methylnaphthalene



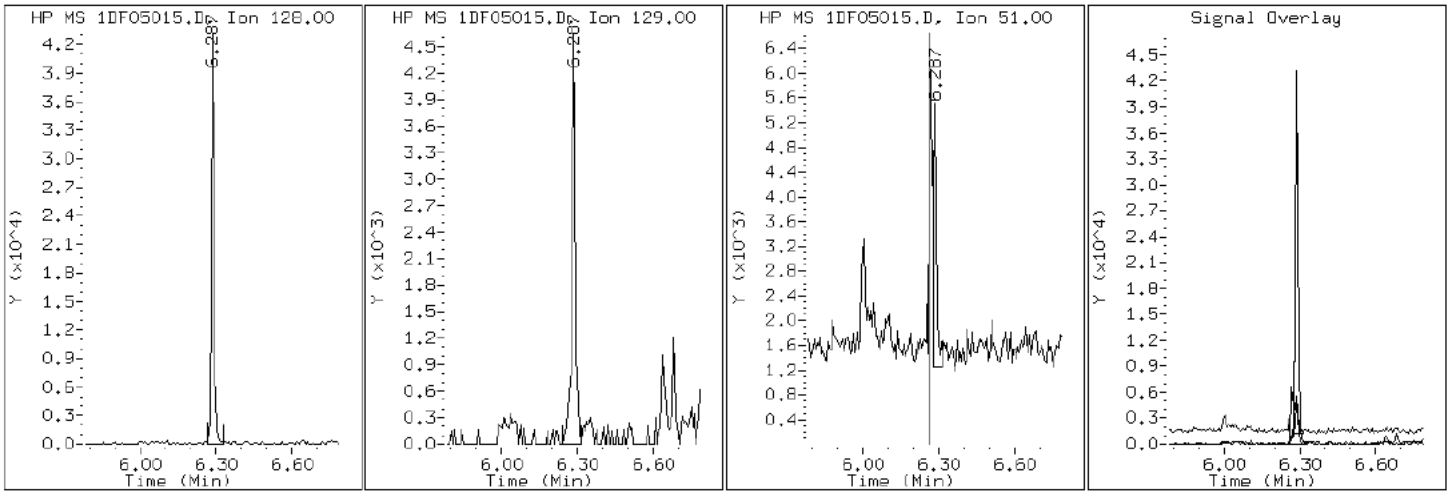
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

2 Naphthalene



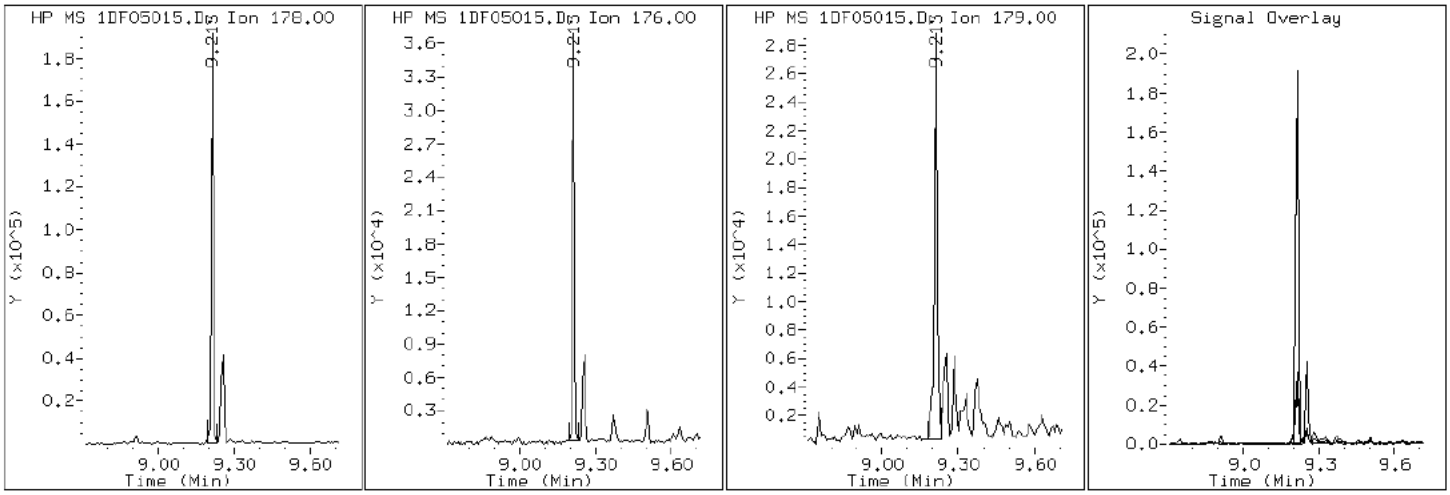
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

12 Phenanthrene



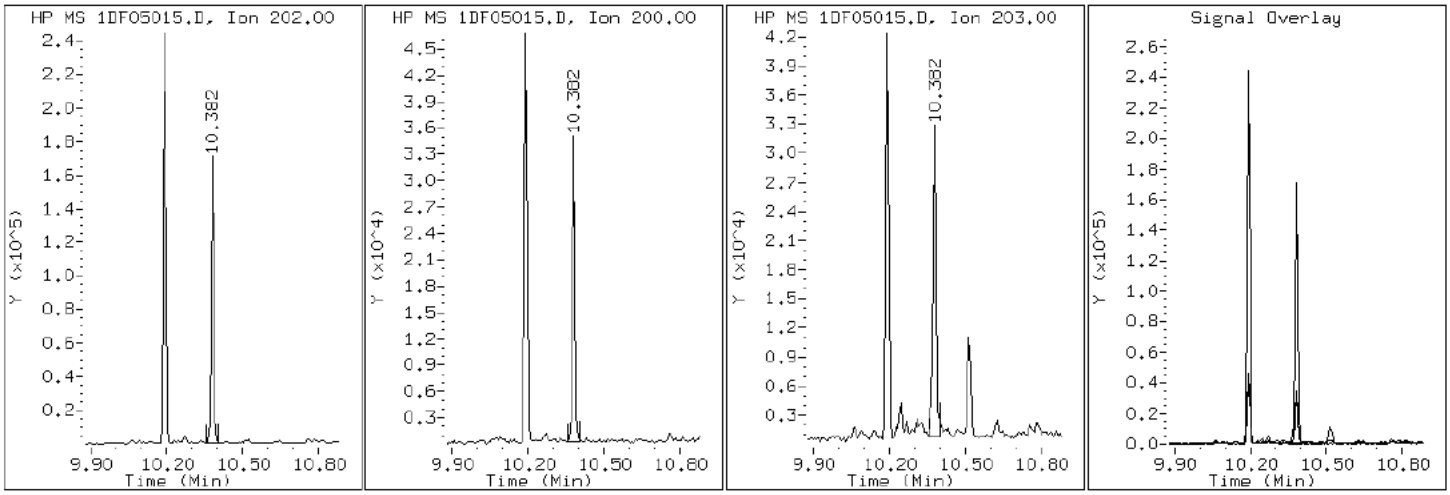
Data File: 1DF05015.D

Date: 05-JUN-2013 16:25

Client ID: CV0950A-CS-SP Instrument: BSMSD.i

Sample Info: 680-90686-c-27-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF05015.D
Inj. Date and Time: 05-JUN-2013 16:25
Instrument ID: BSMSD.i
Client ID: CV0950A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

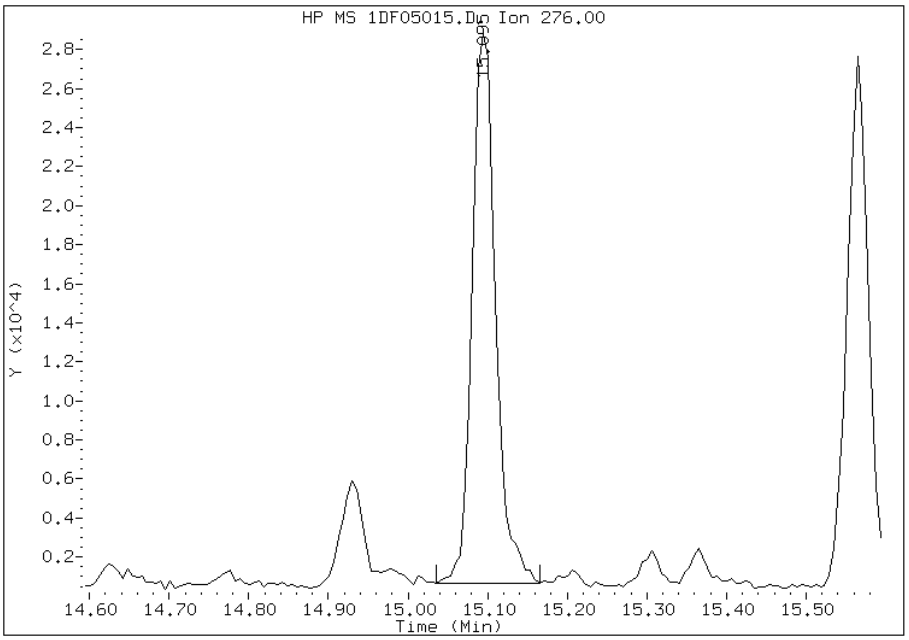
Processing Integration Results

RT: 15.09

Response: 57488

Amount: 1

Conc: 355



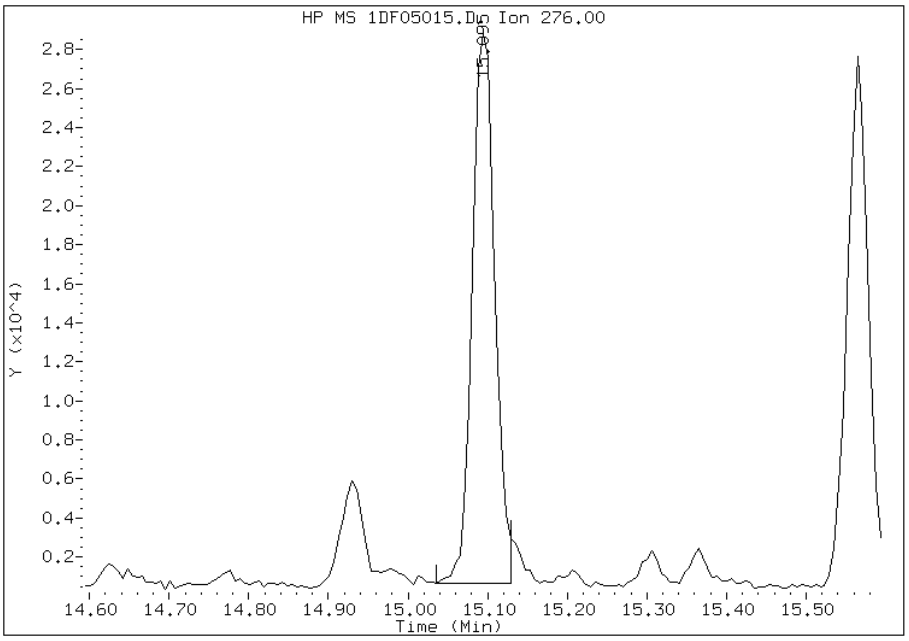
Manual Integration Results

RT: 15.09

Response: 55659

Amount: 1

Conc: 345



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 17:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV0950B-CS-SP | Lab Sample ID: 680-90686-28

Matrix: Solid | Lab File ID: 1CF04005.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 13:22

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 15.42(g) | Date Analyzed: 06/04/2013 11:31

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

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

% Moisture: 32.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	17	J	57	7.2
120-12-7	Anthracene	27		12	6.0
56-55-3	Benzo[a]anthracene	110		11	5.6
50-32-8	Benzo[a]pyrene	100		15	7.4
205-99-2	Benzo[b]fluoranthene	190		17	8.7
191-24-2	Benzo[g,h,i]perylene	94		29	6.3
207-08-9	Benzo[k]fluoranthene	78		11	5.2
218-01-9	Chrysene	150		13	6.4
53-70-3	Dibenz(a,h)anthracene	30		29	5.9
206-44-0	Fluoranthene	210		29	5.7
86-73-7	Fluorene	15	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	81		29	10
90-12-0	1-Methylnaphthalene	33	J	57	6.3
91-57-6	2-Methylnaphthalene	60		57	10
91-20-3	Naphthalene	52	J	57	6.3
85-01-8	Phenanthrene	140	B	11	5.6
129-00-0	Pyrene	170		29	5.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04005.D
Lab Smp Id: 680-90686-A-28-A Client Smp ID: CV0950B-CS-SP
Inj Date : 04-JUN-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90686-a-28-a
Misc Info : 680-90686-A-28-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	32.064	% 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	4.045	4.045	(1.000)	2092050	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1496063	40.0000	
*	10 Phenanthrene-d10	188	6.098	6.104	(1.000)	2891899	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.041)	301267	6.68763	638.3935
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3409804	40.0000	
*	23 Perylene-d12	264	9.398	9.409	(1.000)	3592030	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	32411	0.54899	52.4060
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	20415	0.62343	59.5119
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	11084	0.34403	32.8408
	5 Acenaphthylene	152	5.045	5.045	(0.983)	10416	0.18161	17.3366
	9 Fluorene	166	5.474	5.480	(1.066)	6992	0.15236	14.5443
	11 Phenanthrene	178	6.115	6.121	(1.003)	128772	1.50718	143.8739
	12 Anthracene	178	6.151	6.157	(1.009)	22135	0.27965	26.6946
	13 Carbazole	167	6.257	6.257	(1.026)	21077	0.39994	38.1776

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.143)	187620	2.14840	205.0836
16 Pyrene	202	7.139	7.145	(0.885)	161381	1.75271	167.3114
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	112285	1.19422	113.9990
19 Chrysene	228	8.080	8.092	(1.002)	146957	1.55239	148.1897
20 Benzo(b)fluoranthene	252	8.992	9.004	(0.957)	177031	2.00592	191.4827(M)
21 Benzo(k)fluoranthene	252	9.009	9.027	(0.959)	80242	0.81406	77.7088(M)
22 Benzo(a)pyrene	252	9.333	9.345	(0.993)	87243	1.06738	101.8906
24 Indeno(1,2,3-cd)pyrene	276	10.774	10.792	(1.146)	66317	0.84873	81.0187(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.150)	24130	0.31473	30.0439
26 Benzo(g,h,i)perylene	276	11.192	11.215	(1.191)	82056	0.98331	93.8660

QC Flag Legend

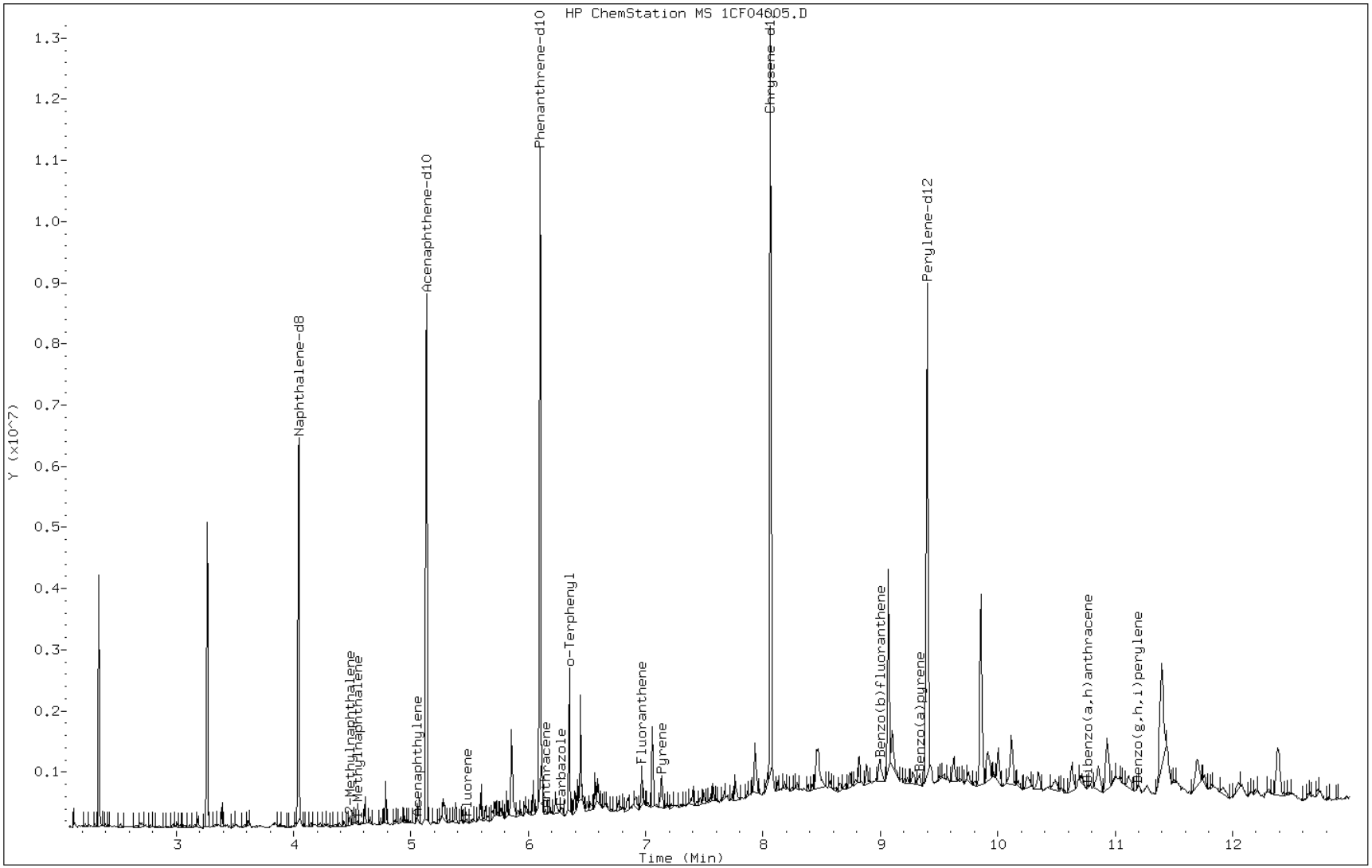
M - Compound response manually integrated.

Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC



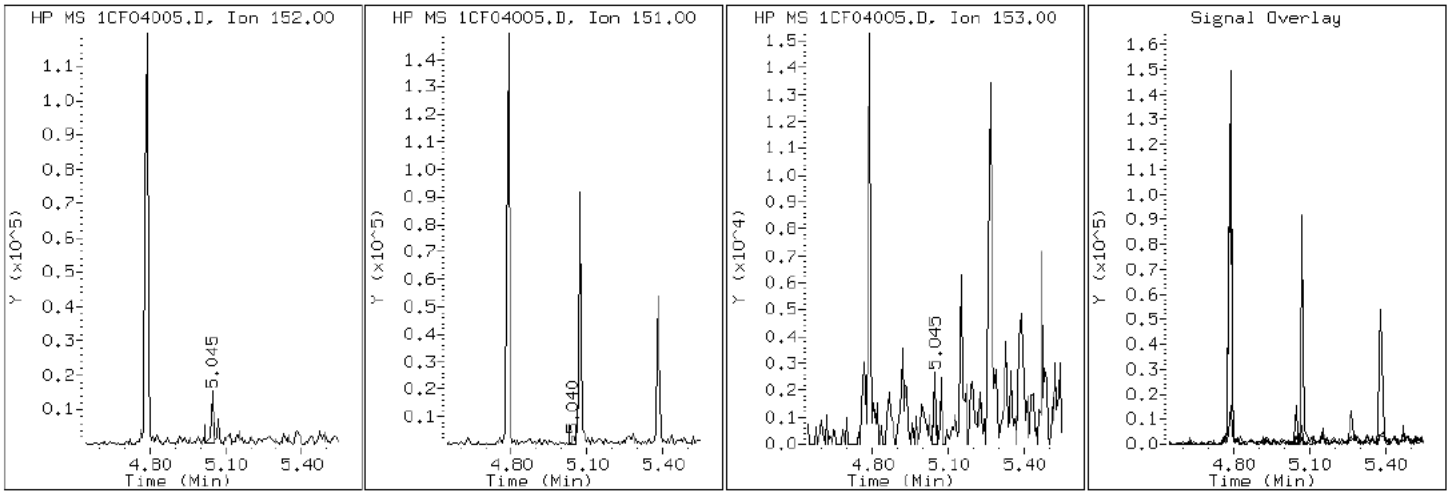
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

5 Acenaphthylene



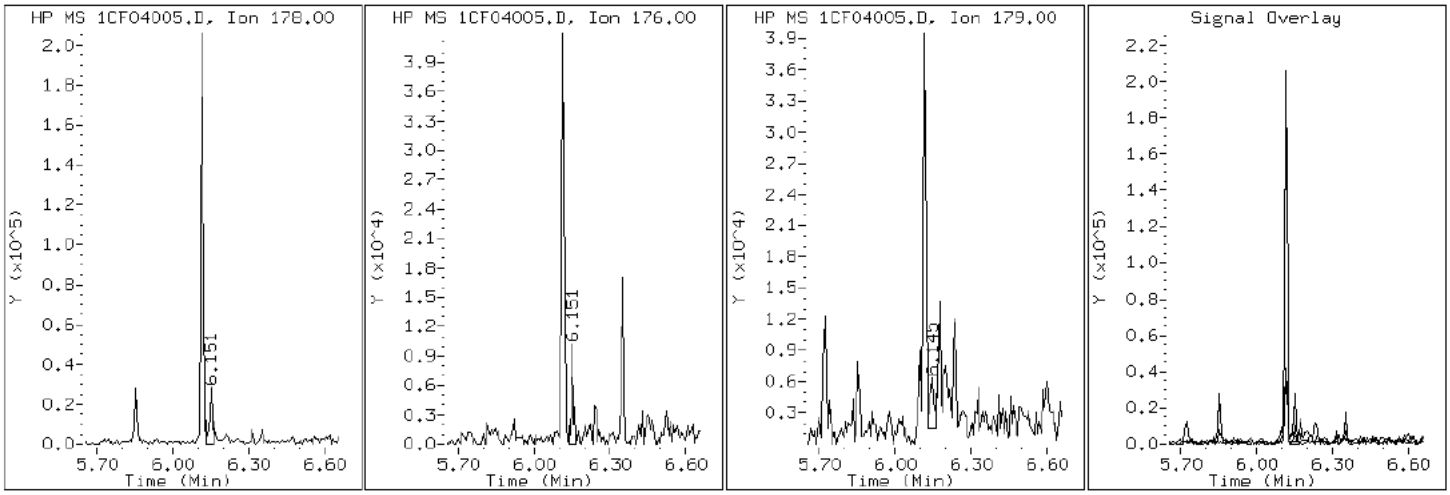
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

12 Anthracene



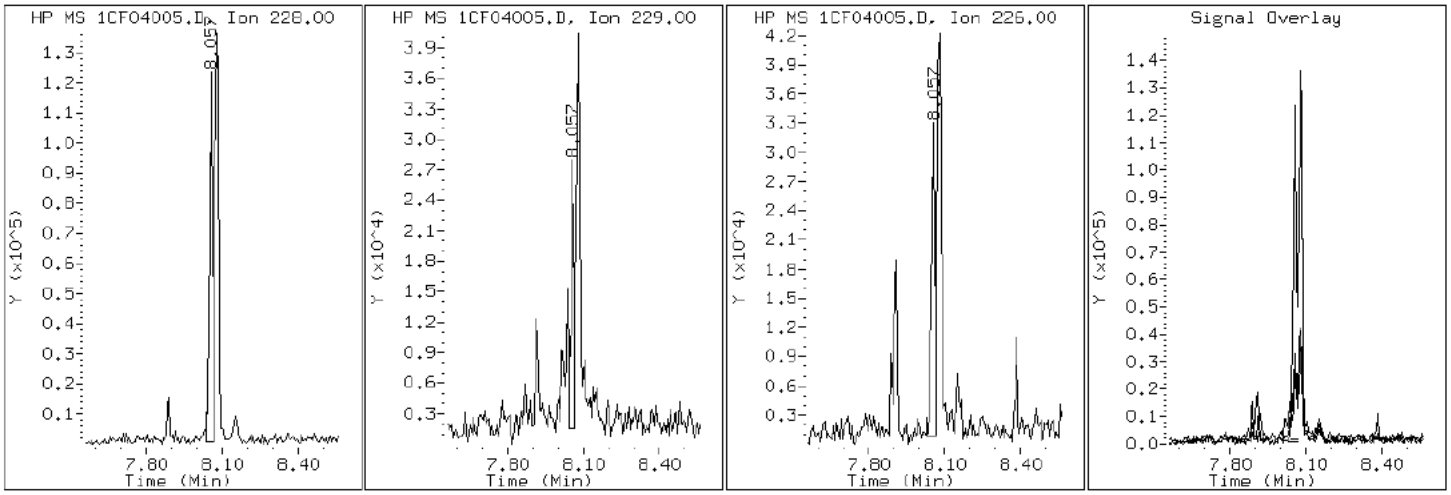
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

17 Benzo(a)anthracene



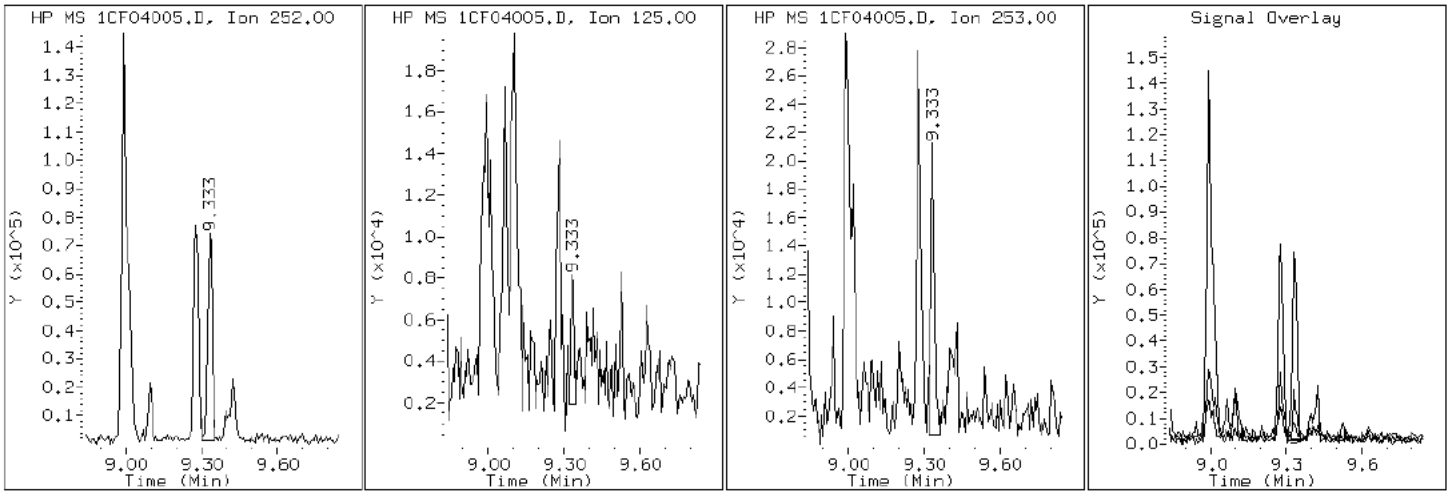
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

22 Benzo(a)pyrene



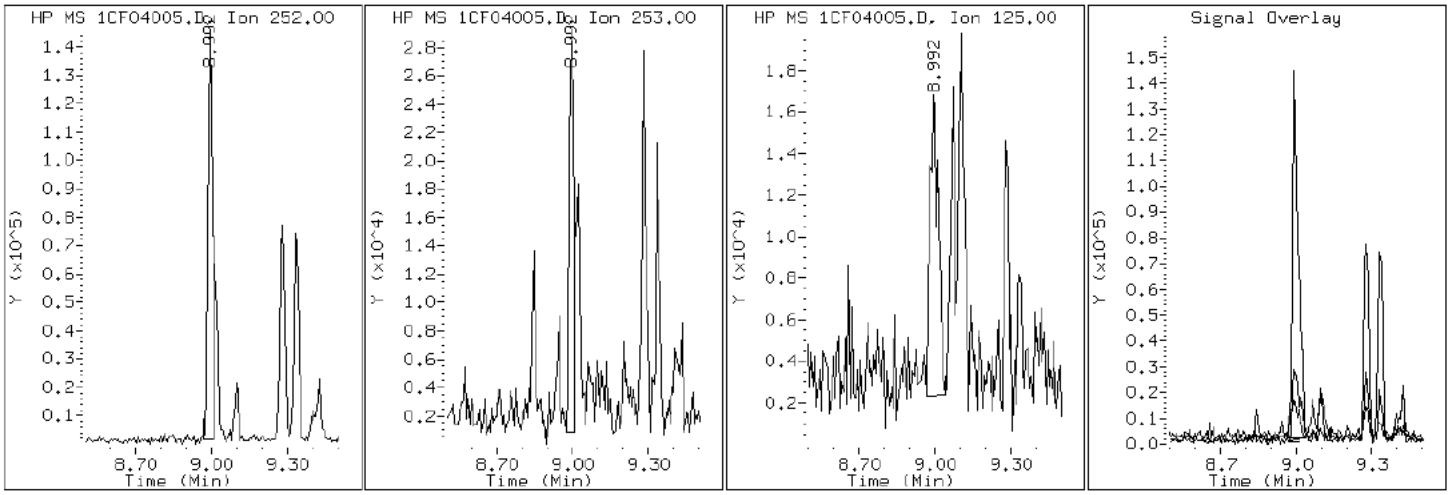
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



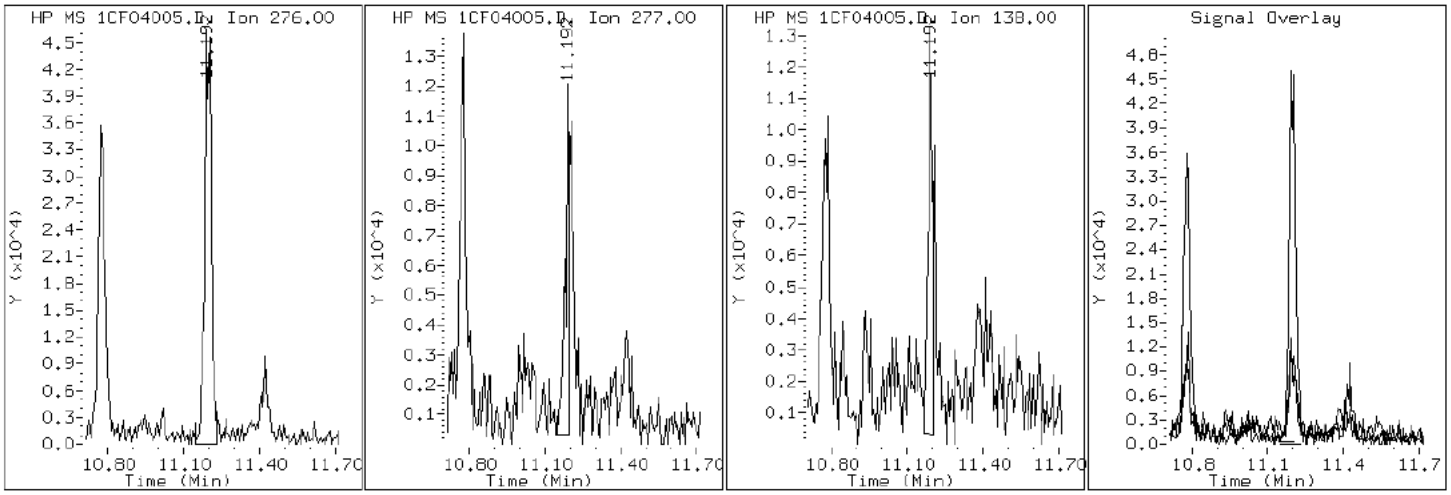
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



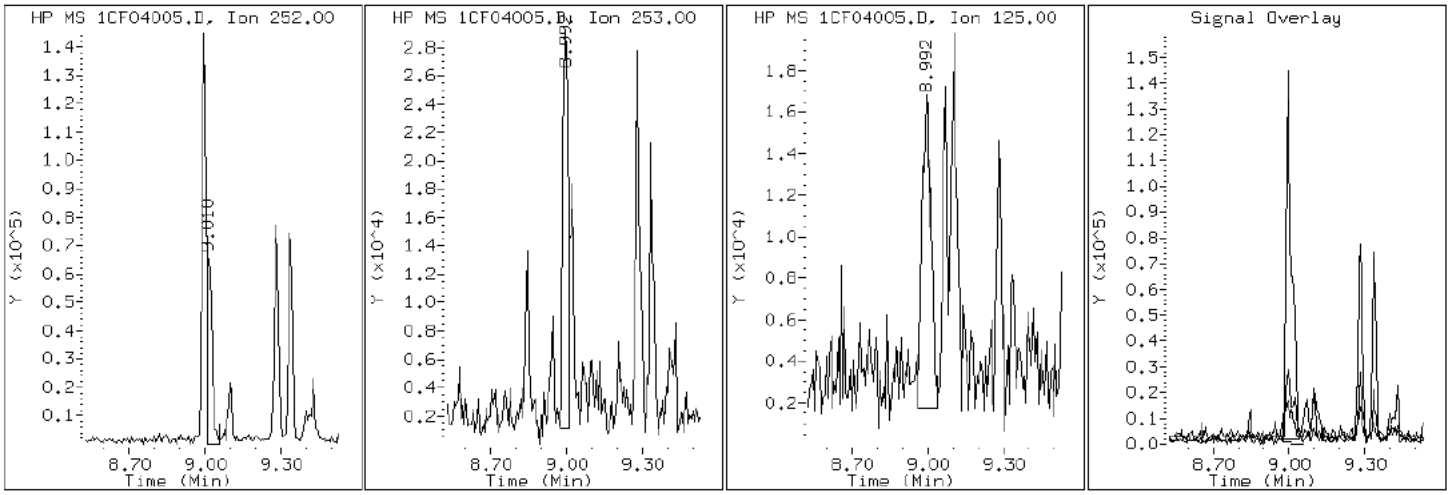
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



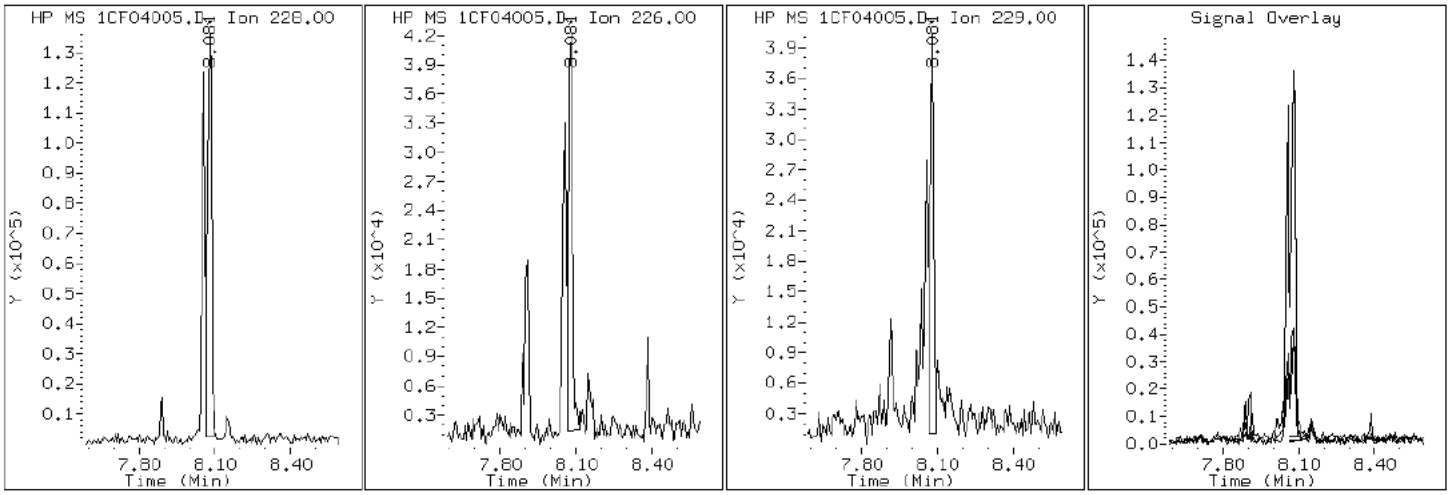
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

19 Chrysene



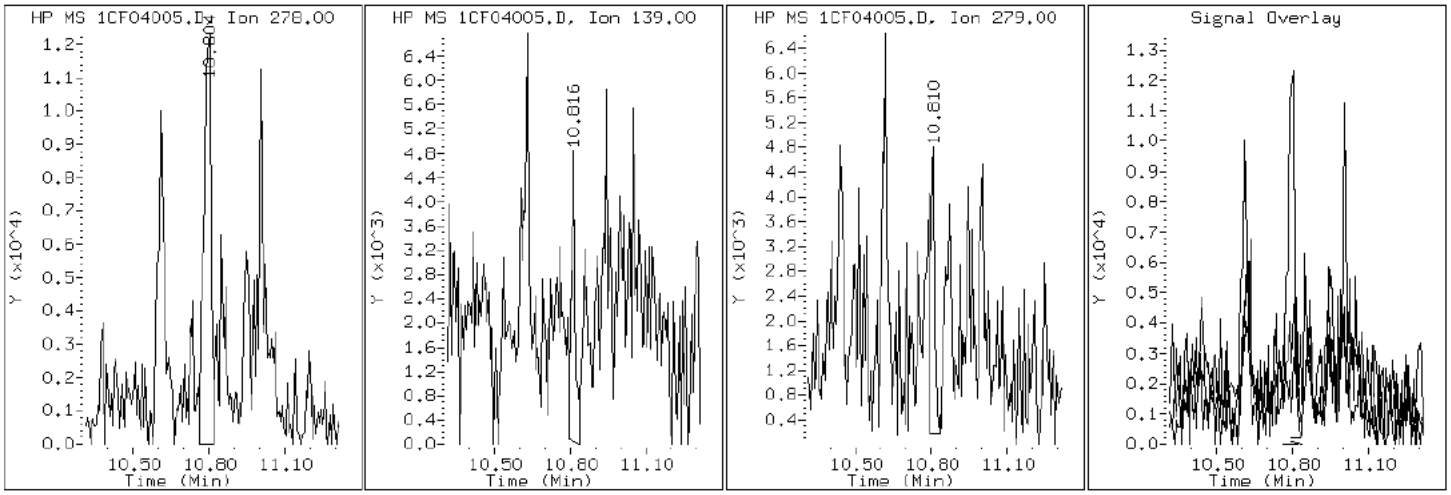
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



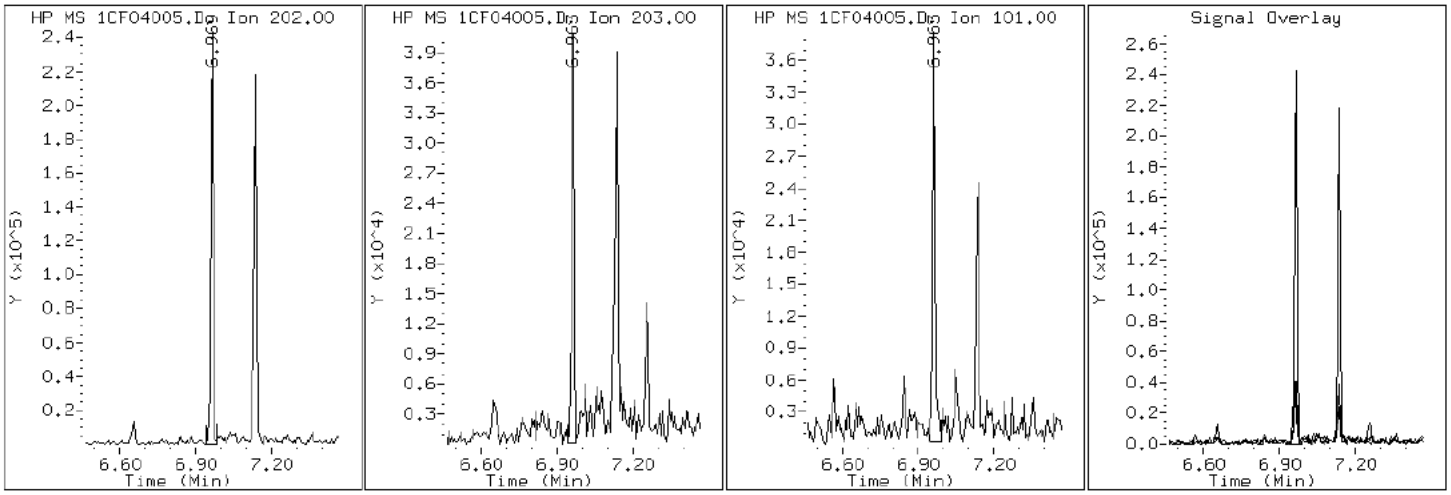
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

15 Fluoranthene



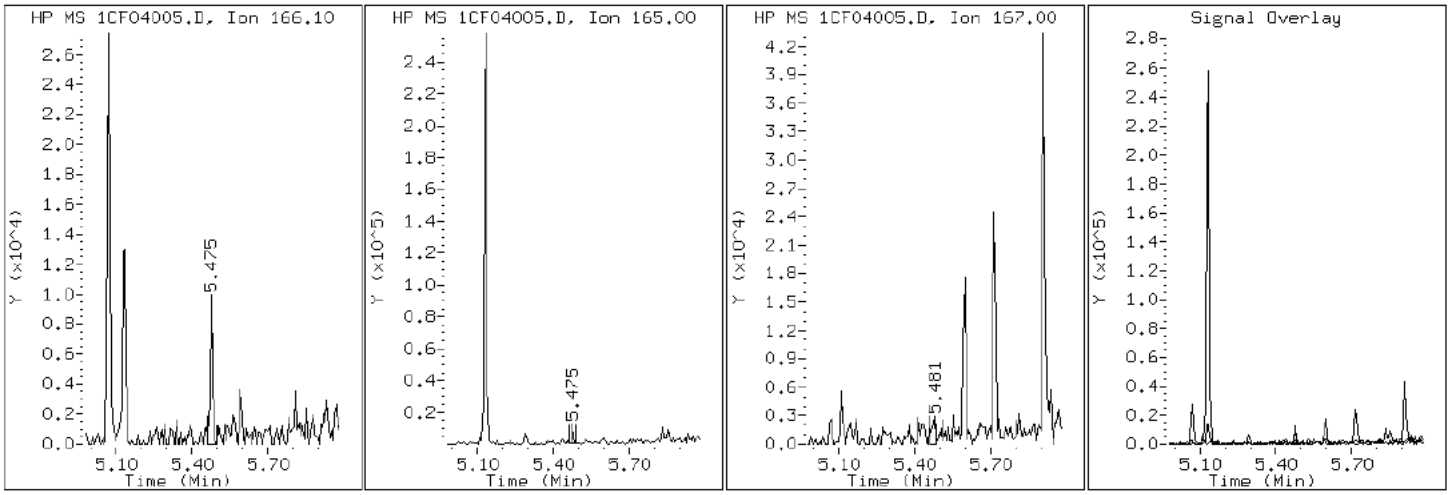
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

9 Fluorene



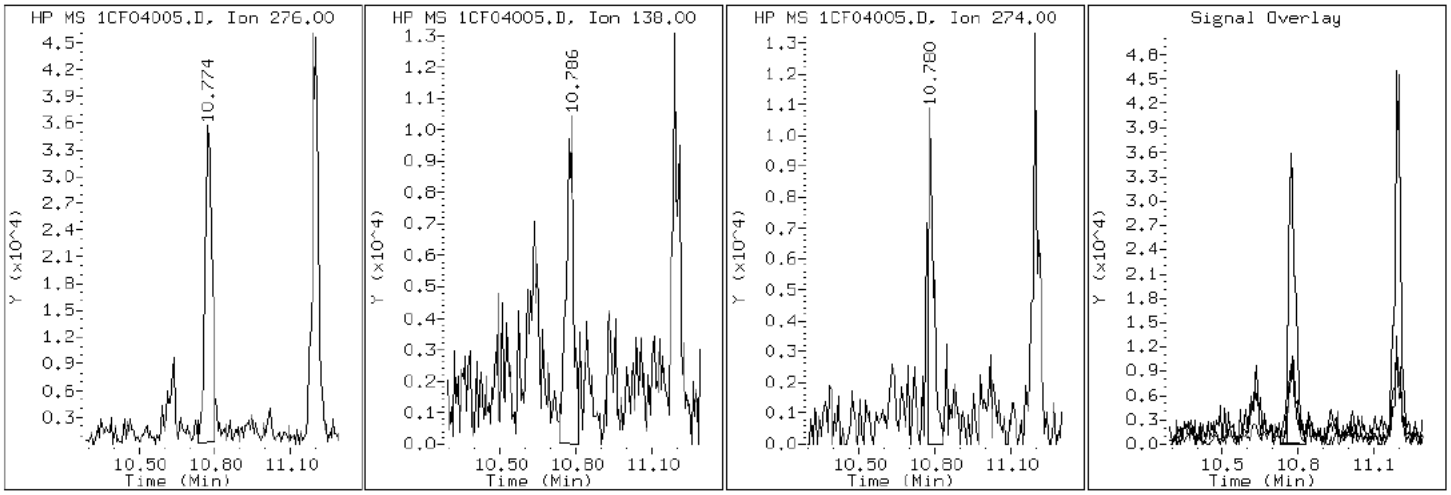
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

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



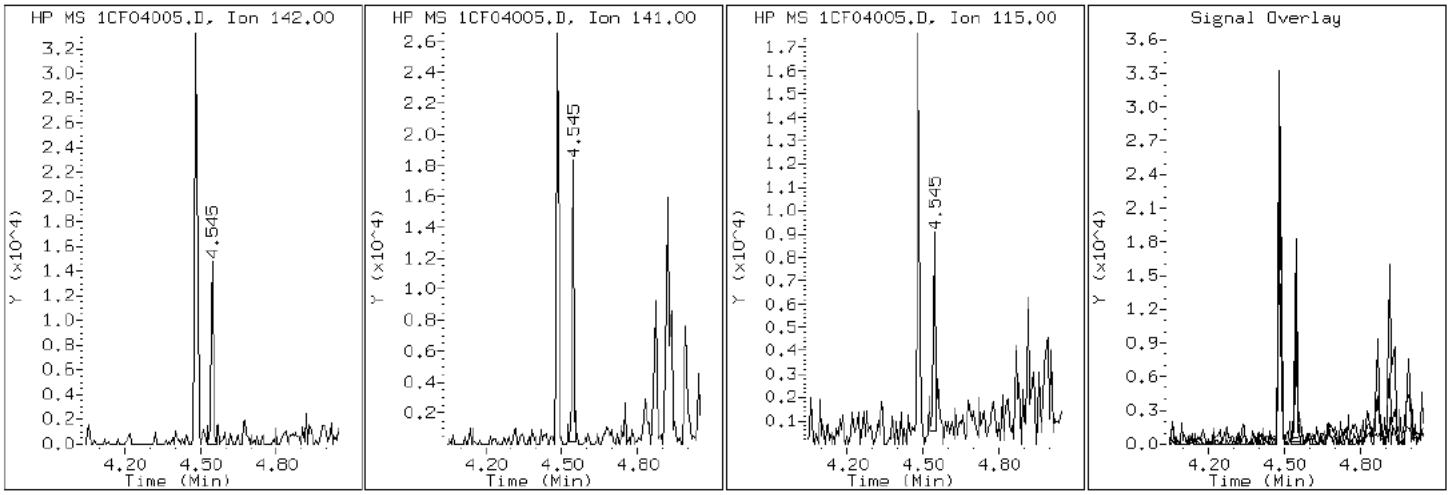
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

4 1-Methylnaphthalene



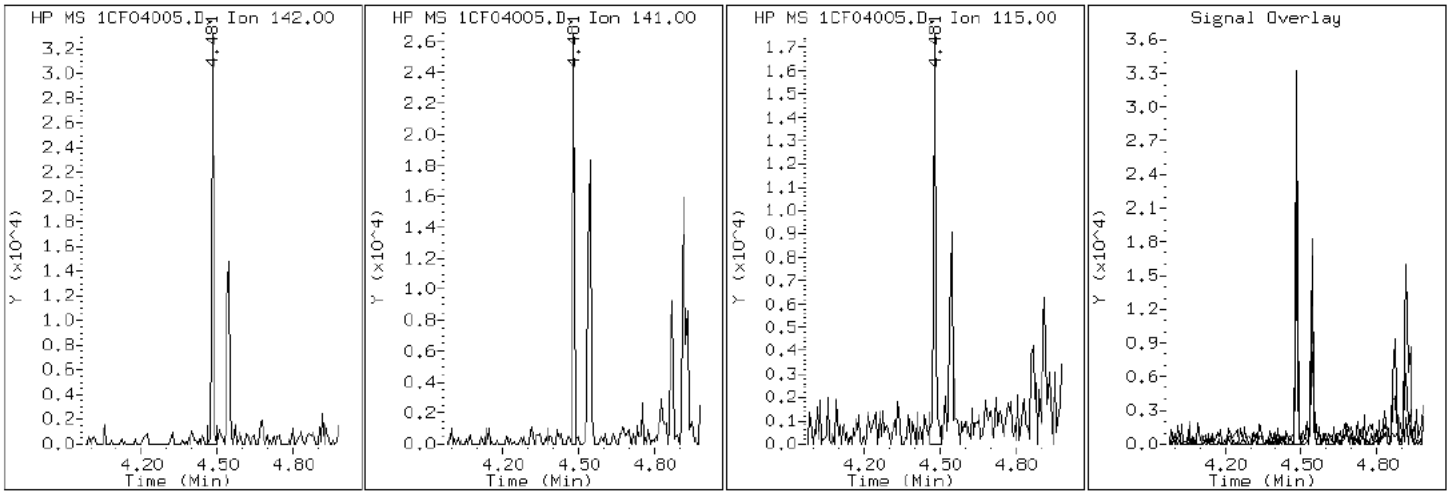
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

3 2-Methylnaphthalene



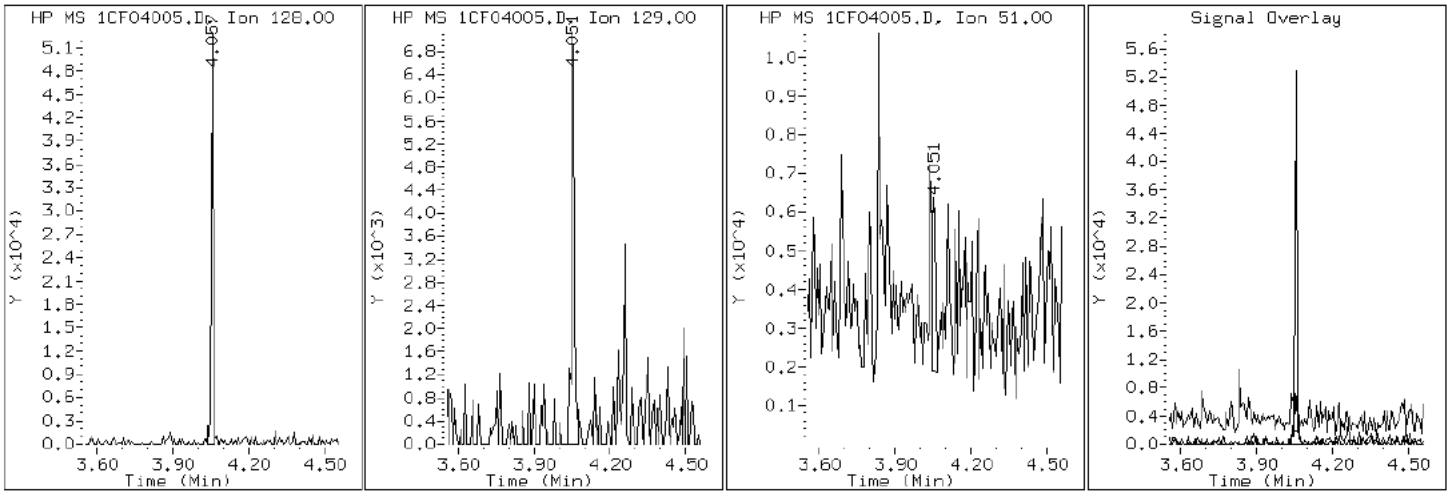
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

2 Naphthalene



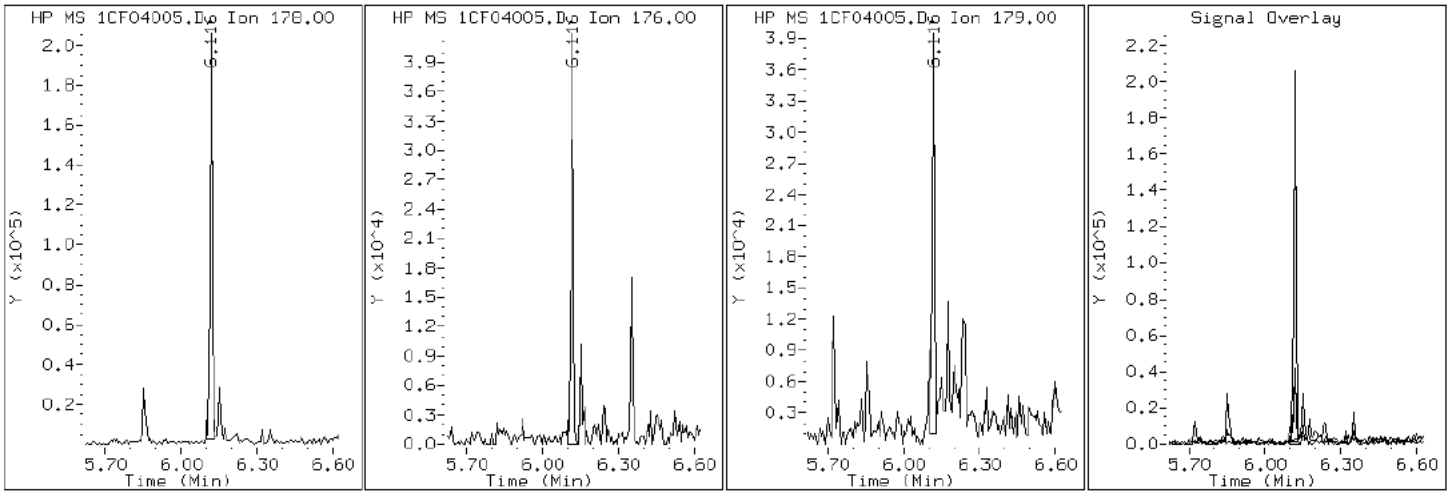
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

11 Phenanthrene



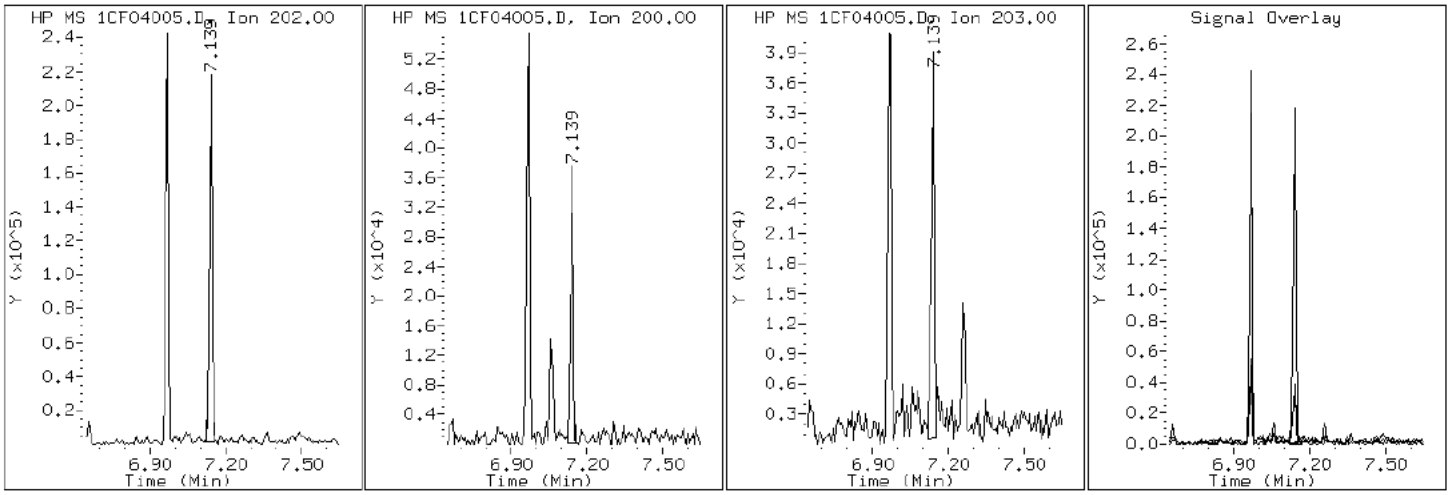
Data File: 1CF04005.D

Date: 04-JUN-2013 11:31

Client ID: CV0950B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04005.D
Inj. Date and Time: 04-JUN-2013 11:31
Instrument ID: BSMC5973.i
Client ID: CV0950B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

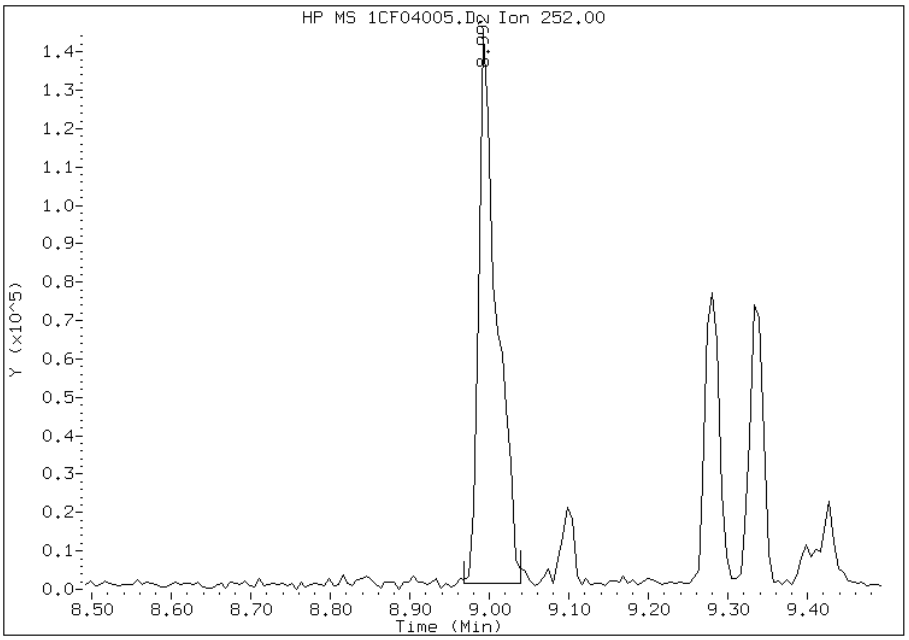
Processing Integration Results

RT: 8.99

Response: 228607

Amount: 3

Conc: 247



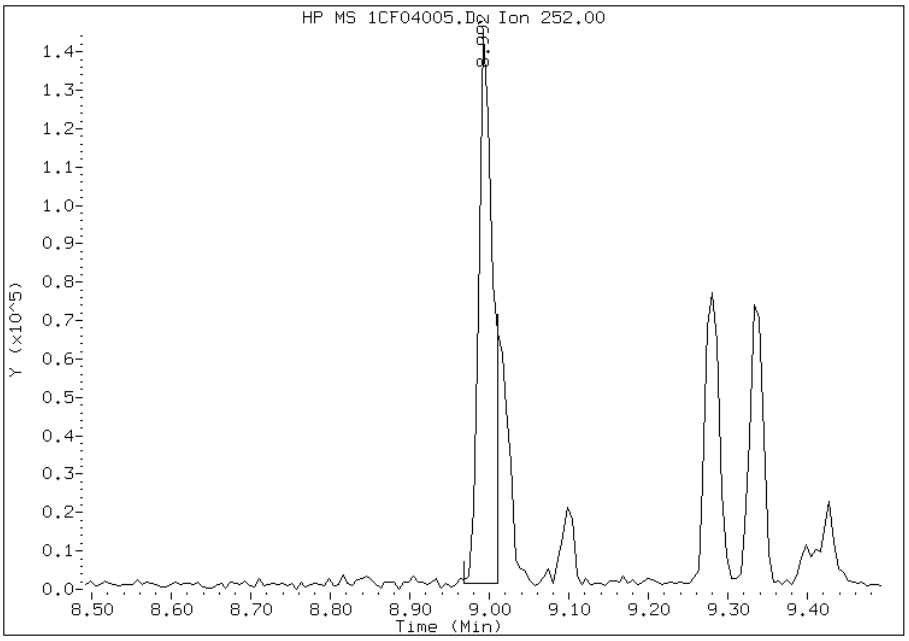
Manual Integration Results

RT: 8.99

Response: 177031

Amount: 2

Conc: 191



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 18:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04005.D
Inj. Date and Time: 04-JUN-2013 11:31
Instrument ID: BSMC5973.i
Client ID: CV0950B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

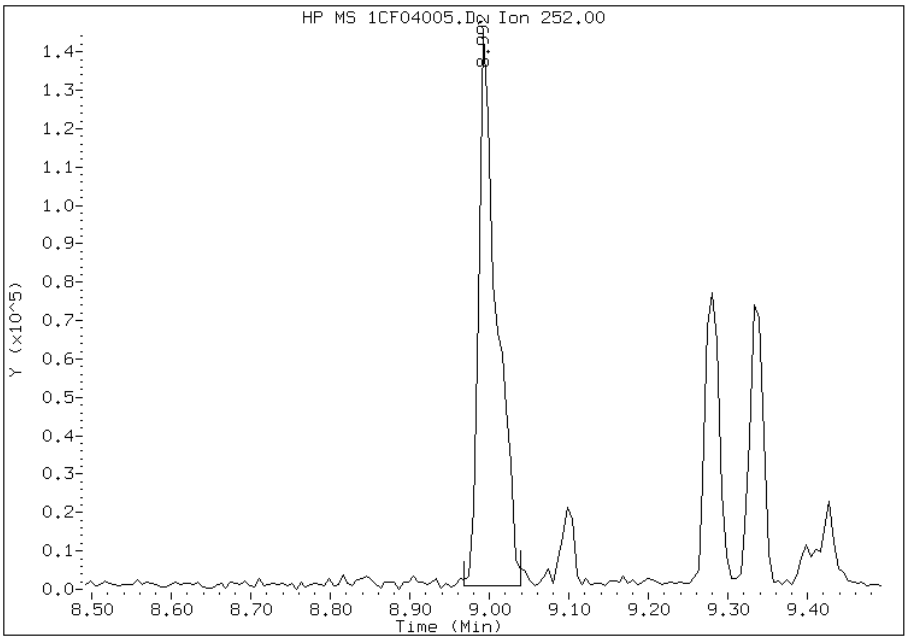
Processing Integration Results

RT: 8.99

Response: 231952

Amount: 2

Conc: 225



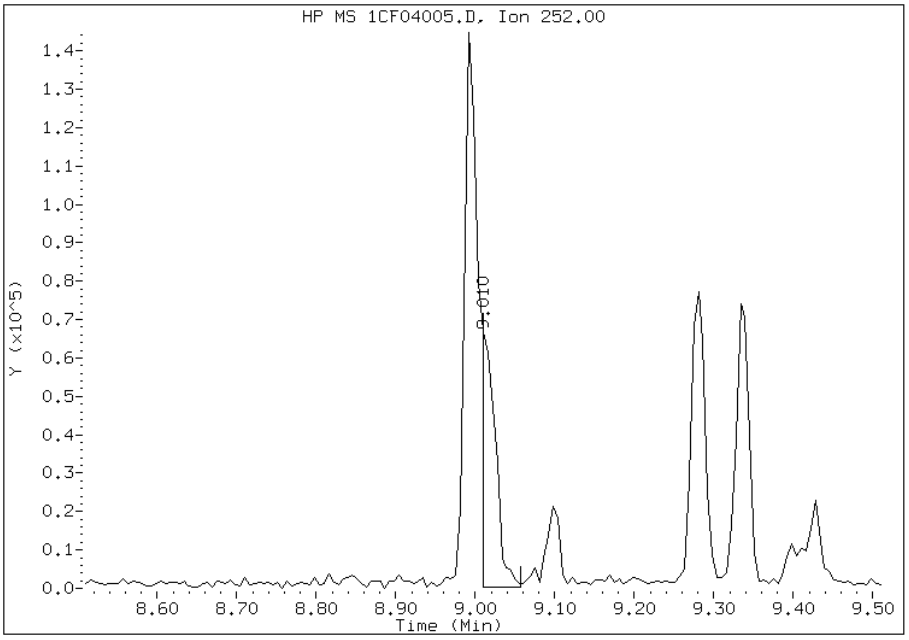
Manual Integration Results

RT: 9.01

Response: 80242

Amount: 1

Conc: 78



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 18:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04005.D
Inj. Date and Time: 04-JUN-2013 11:31
Instrument ID: BSMC5973.i
Client ID: CV0950B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

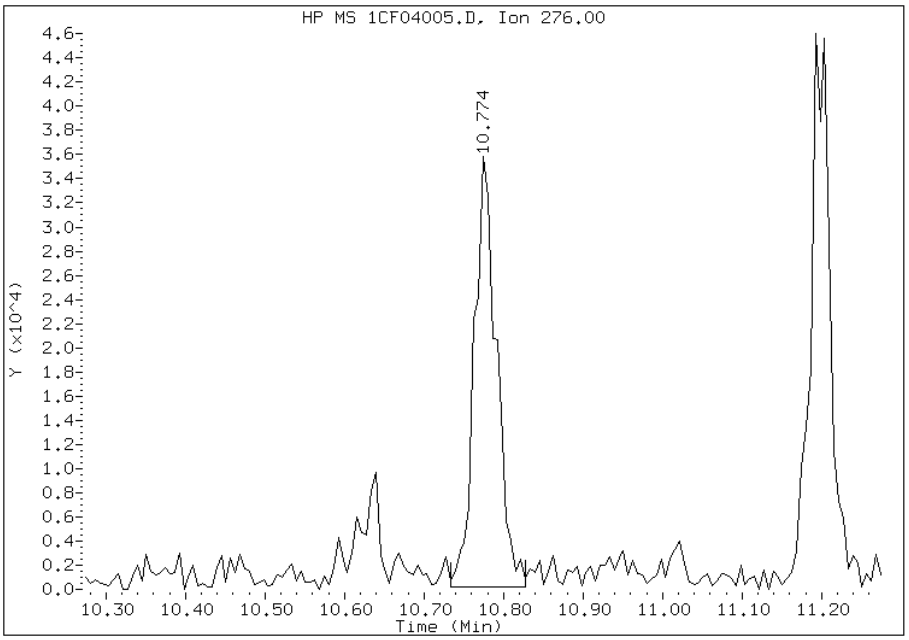
Processing Integration Results

RT: 10.77

Response: 69125

Amount: 1

Conc: 84



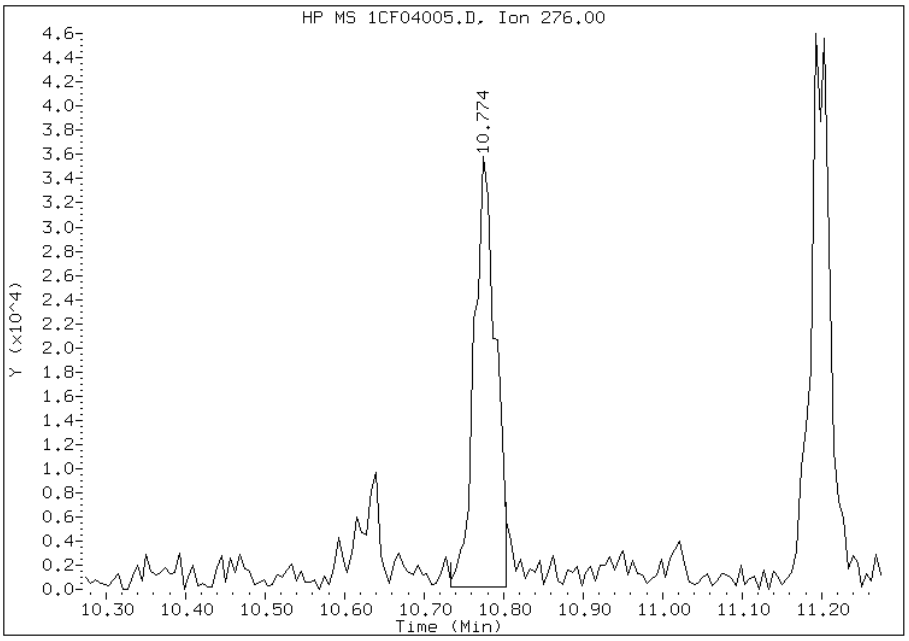
Manual Integration Results

RT: 10.77

Response: 66317

Amount: 1

Conc: 81



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 18:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV1271A-CS-SP | Lab Sample ID: 680-90686-29

Matrix: Solid | Lab File ID: 1CF04006.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 15:09

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 15.11(g) | Date Analyzed: 06/04/2013 11:50

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.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	56		51	6.4
120-12-7	Anthracene	67		11	5.4
56-55-3	Benzo[a]anthracene	350		10	5.0
50-32-8	Benzo[a]pyrene	300		13	6.7
205-99-2	Benzo[b]fluoranthene	530		16	7.8
191-24-2	Benzo[g,h,i]perylene	250		26	5.6
207-08-9	Benzo[k]fluoranthene	220		10	4.6
218-01-9	Chrysene	420		12	5.8
53-70-3	Dibenz(a,h)anthracene	77		26	5.3
206-44-0	Fluoranthene	570		26	5.1
86-73-7	Fluorene	20	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	180		26	9.1
90-12-0	1-Methylnaphthalene	82		51	5.6
91-57-6	2-Methylnaphthalene	94		51	9.1
91-20-3	Naphthalene	75		51	5.6
85-01-8	Phenanthrene	360	B	10	5.0
129-00-0	Pyrene	490		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04006.D
Lab Smp Id: 680-90686-A-29-A Client Smp ID: CV1271A-CS-SP
Inj Date : 04-JUN-2013 11:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90686-a-29-a
Misc Info : 680-90686-A-29-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 6
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	22.667	% 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/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2467766	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1796446	40.0000	
*	10 Phenanthrene-d10	188	6.098	6.104	(1.000)	3300982	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.041)	458549	8.91756	763.1589
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3493122	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3434417	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	61306	0.88033	75.3377
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	42519	1.10075	94.2015
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	36600	0.96305	82.4174
	5 Acenaphthylene	152	5.045	5.045	(0.983)	45332	0.65825	56.3321
	7 Acenaphthene	154	5.151	5.151	(1.003)	8536	0.19765	16.9149
	9 Fluorene	166	5.474	5.480	(1.066)	12938	0.23479	20.0931(Q)
	11 Phenanthrene	178	6.116	6.121	(1.003)	405907	4.16208	356.1883
	12 Anthracene	178	6.151	6.157	(1.009)	70799	0.78360	67.0601

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.026)	58481	0.80786	69.1359
15 Fluoranthene	202	6.968	6.968	(1.143)	669093	6.71215	574.4215
16 Pyrene	202	7.139	7.145	(0.885)	543710	5.76421	493.2970
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	393205	4.08223	349.3547
19 Chrysene	228	8.080	8.092	(1.002)	471961	4.86669	416.4876
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	526240	6.23641	533.7076(M)
21 Benzo(k)fluoranthene	252	9.009	9.027	(0.958)	244208	2.59119	221.7520(M)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	291673	3.48066	297.8728
24 Indeno(1,2,3-cd)pyrene	276	10.780	10.792	(1.146)	177458	2.09036	178.8918(M)
25 Dibenzo(a,h)anthracene	278	10.792	10.815	(1.148)	66102	0.90175	77.1709
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	236196	2.96034	253.3436

QC Flag Legend

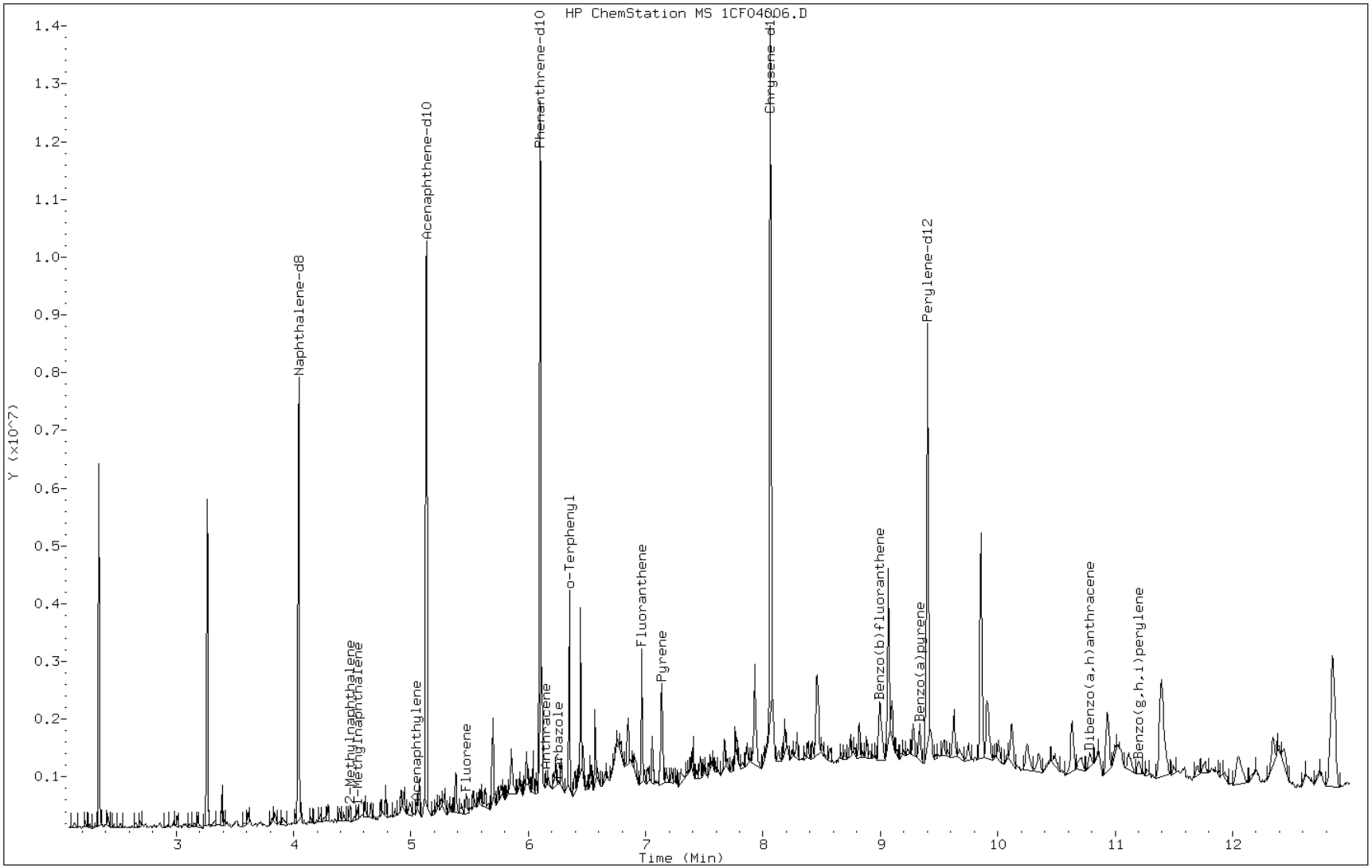
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC



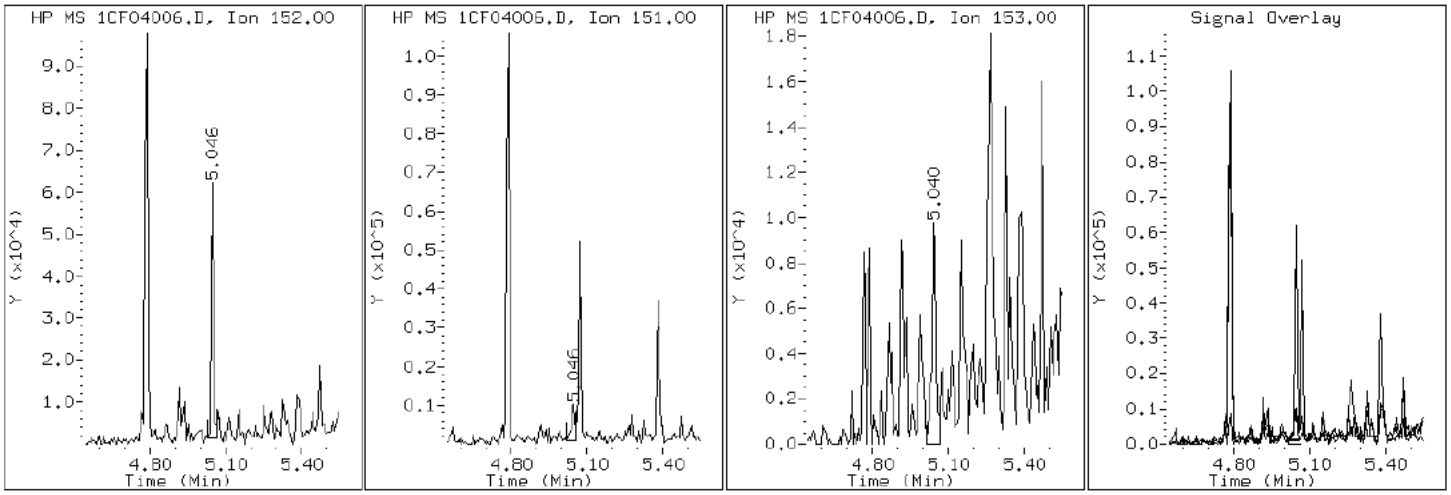
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

5 Acenaphthylene



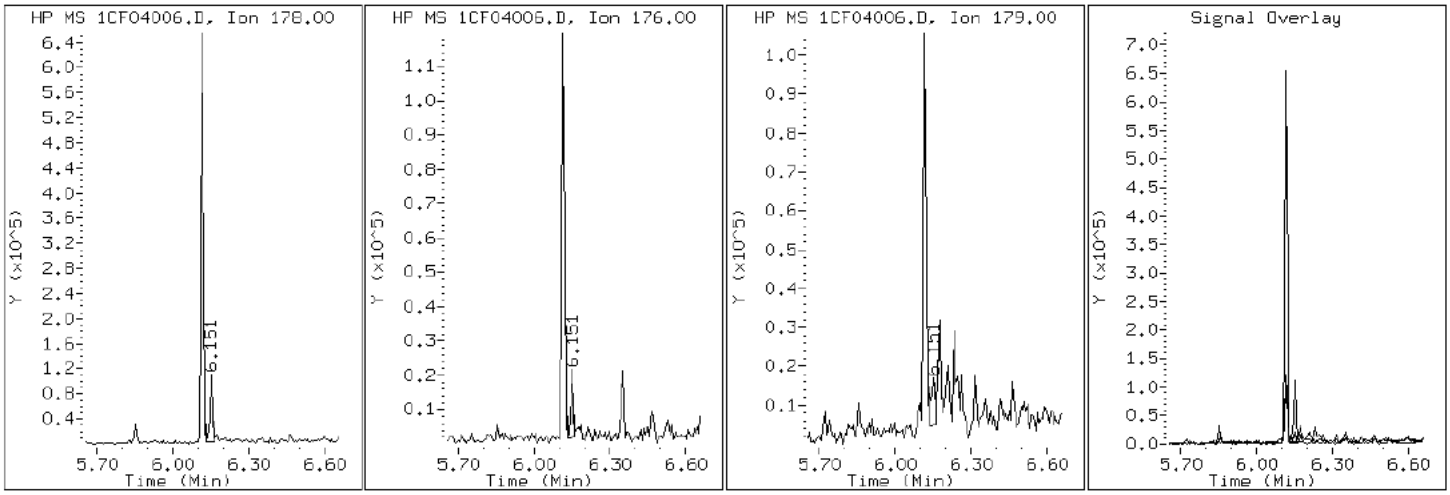
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

12 Anthracene



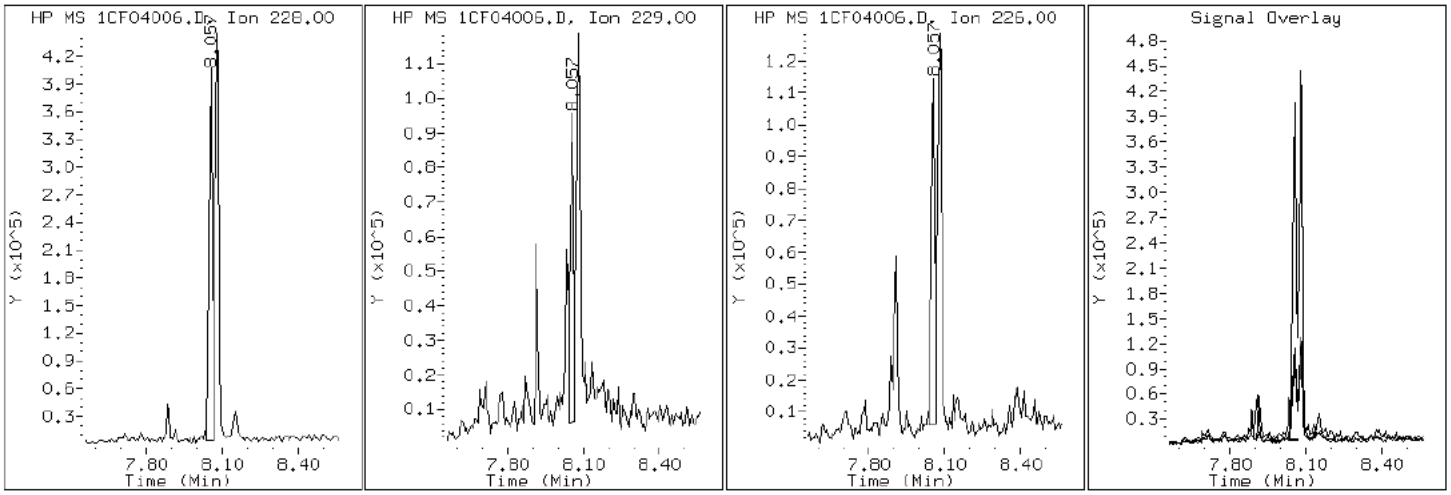
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

17 Benzo(a)anthracene



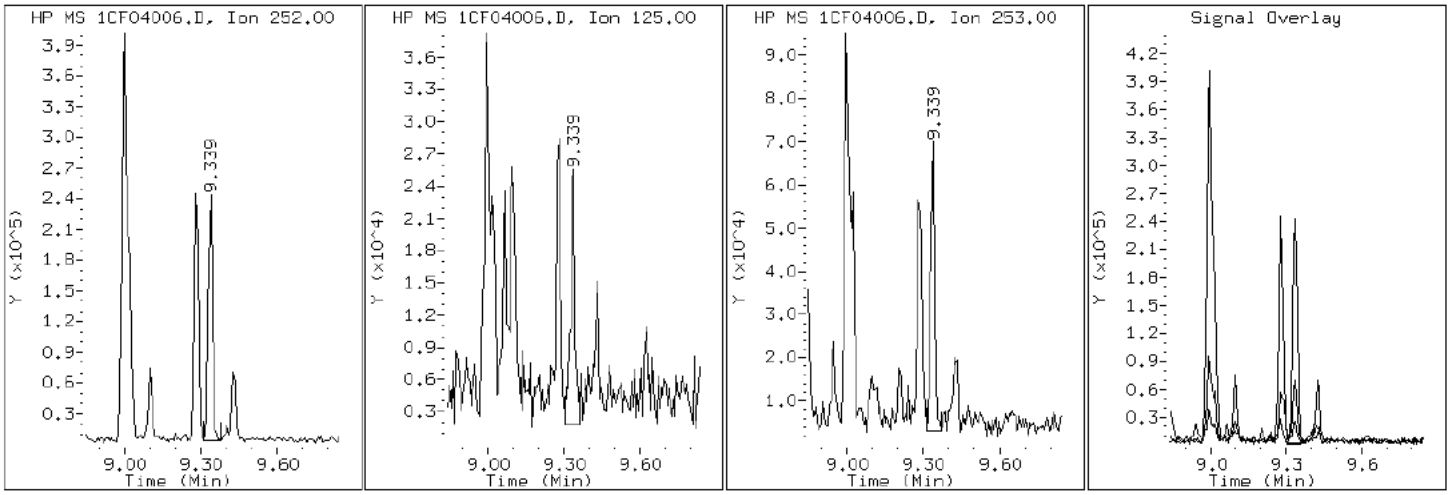
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

22 Benzo(a)pyrene



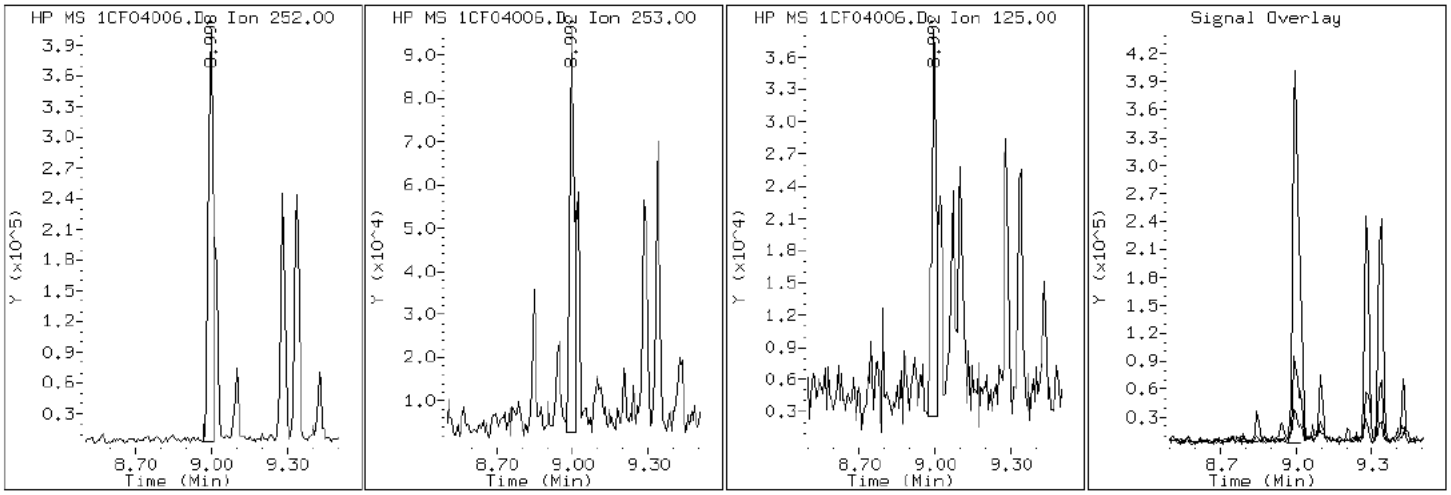
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



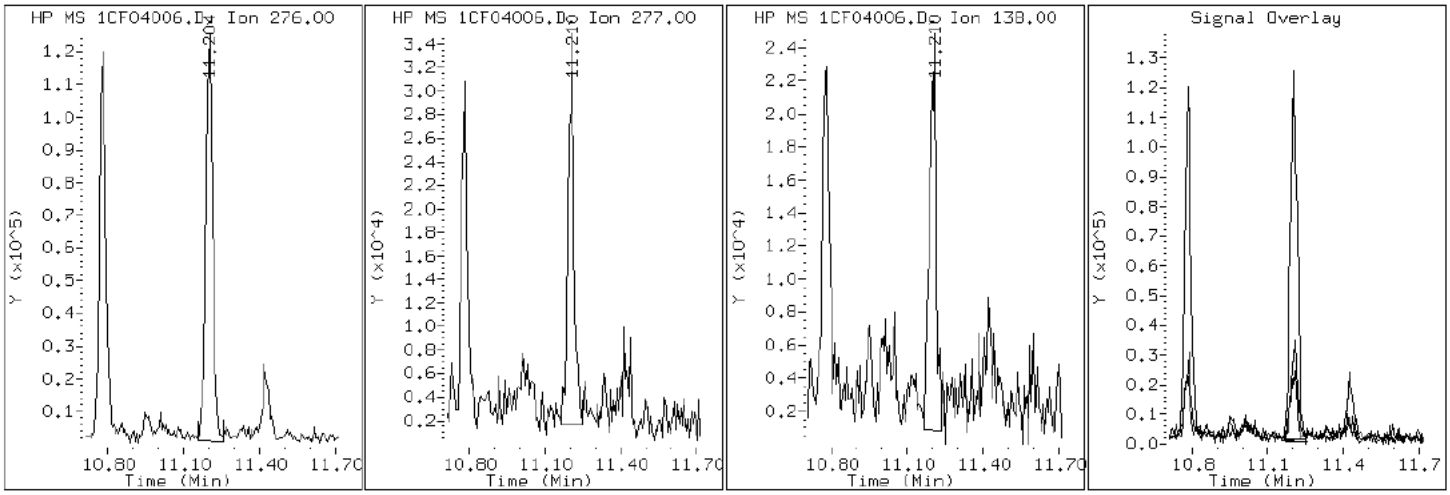
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



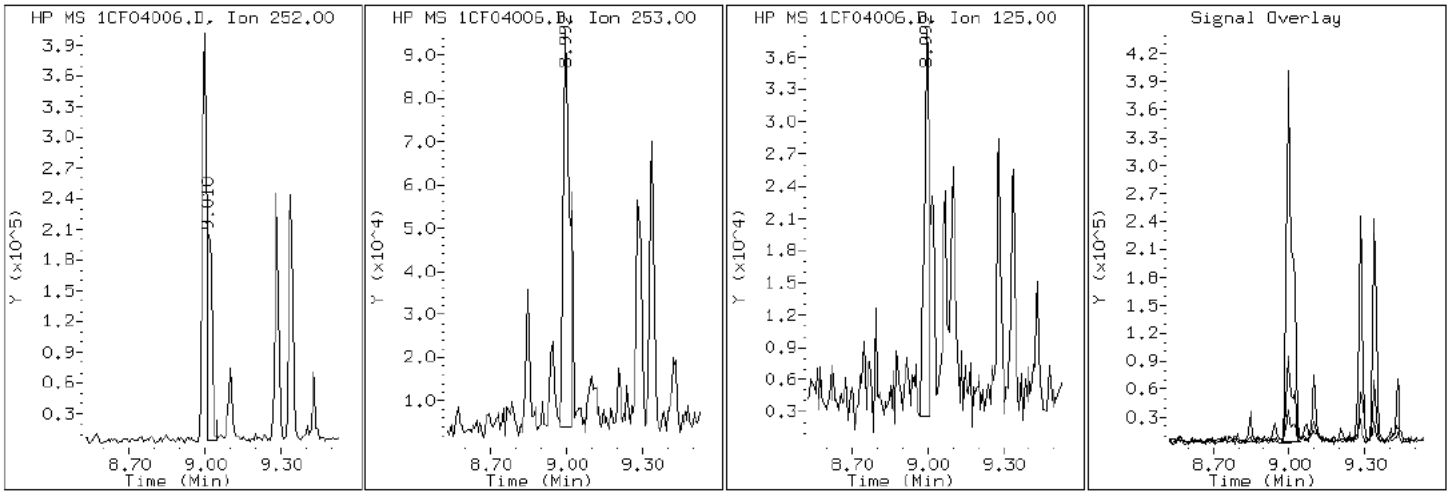
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



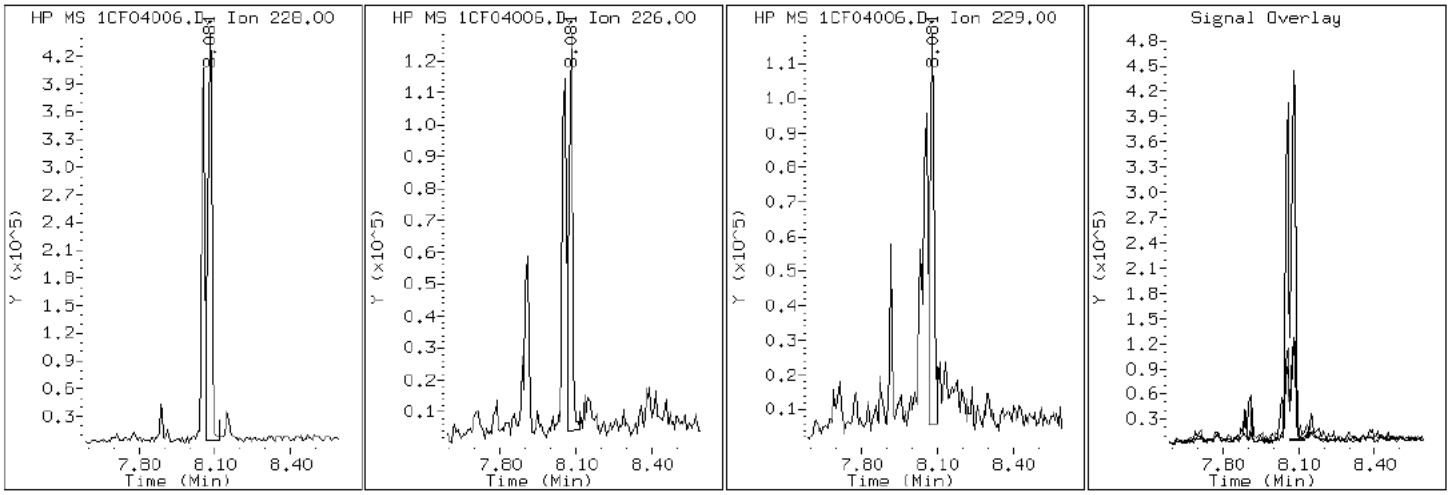
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

19 Chrysene



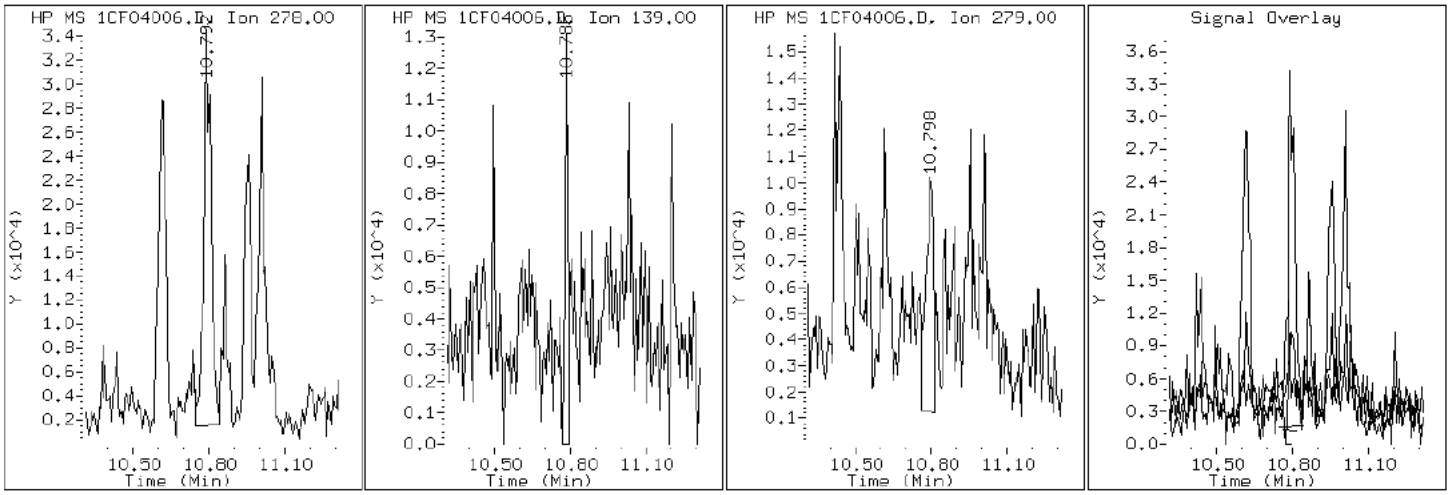
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



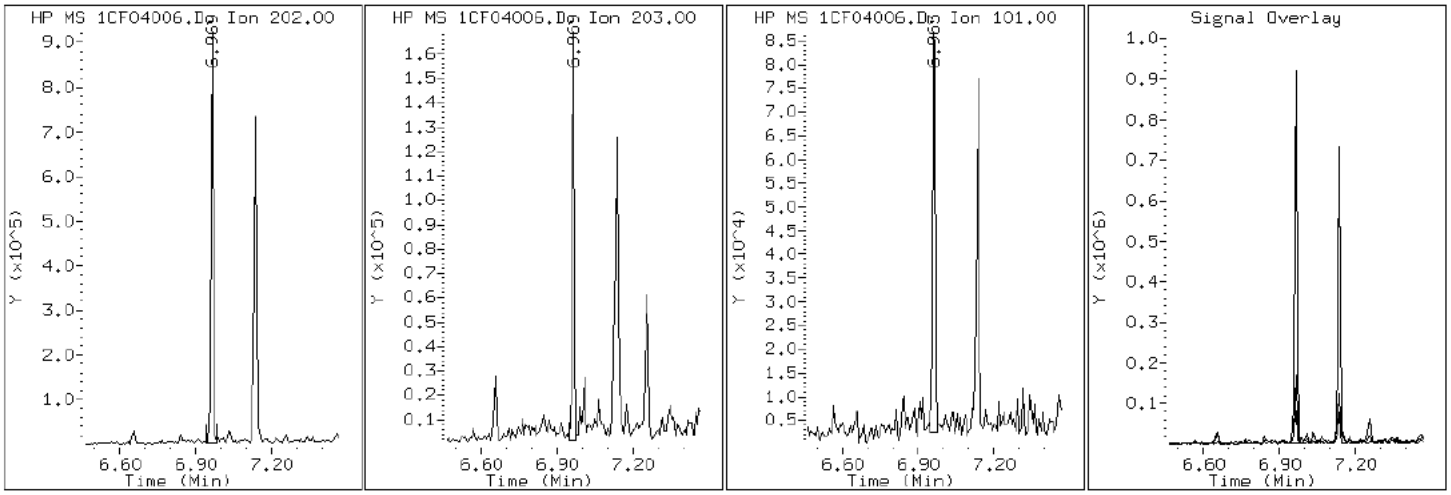
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

15 Fluoranthene



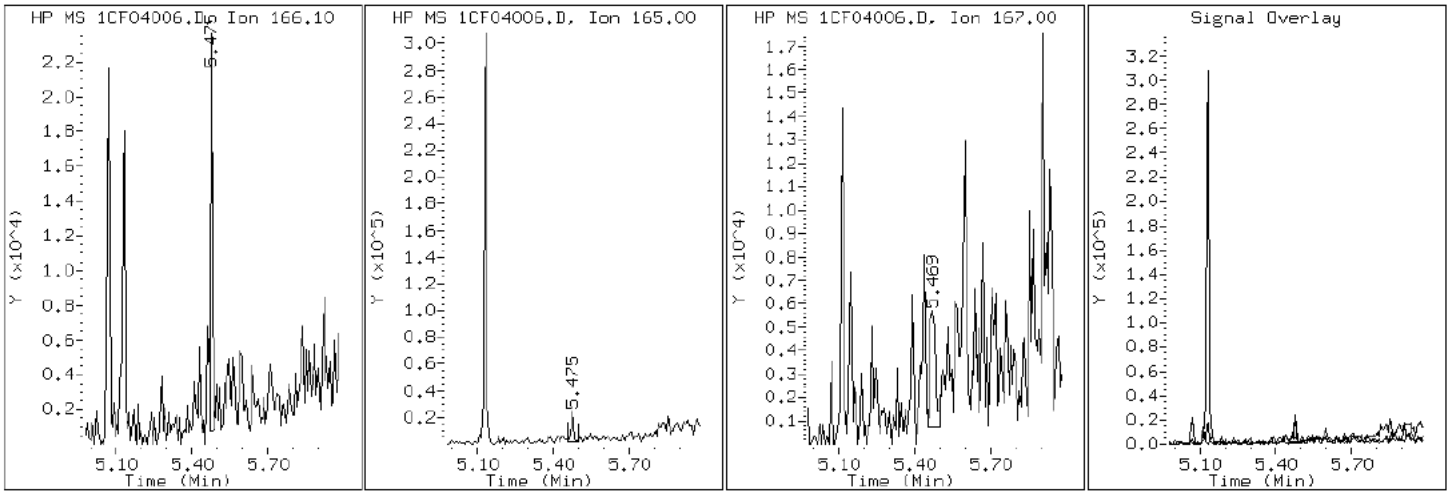
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

9 Fluorene



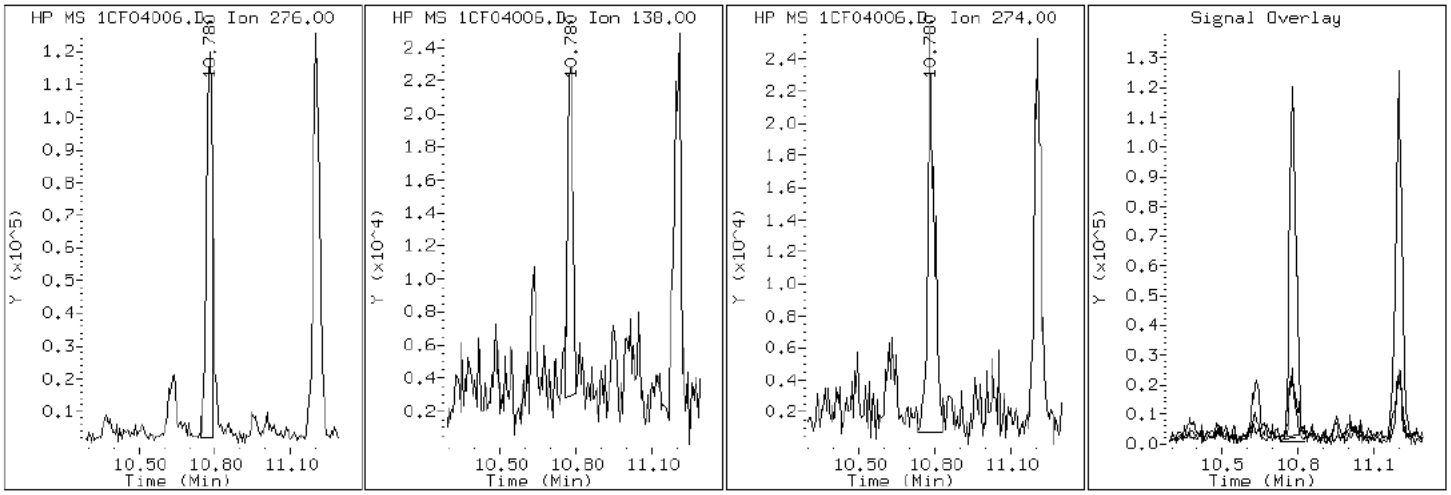
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

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



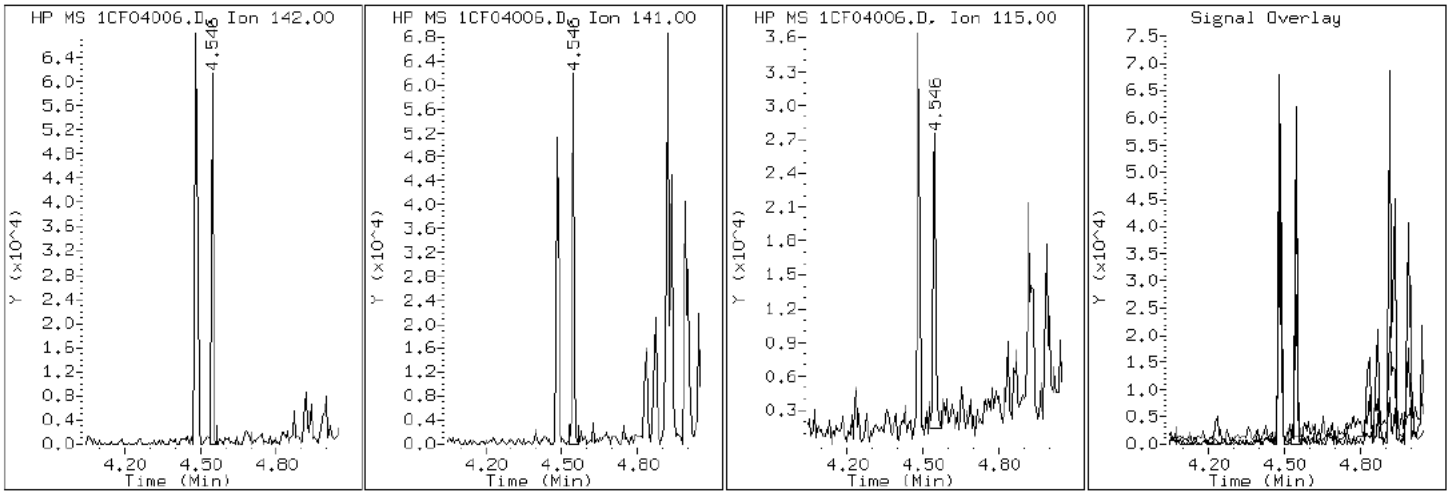
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

4 1-Methylnaphthalene



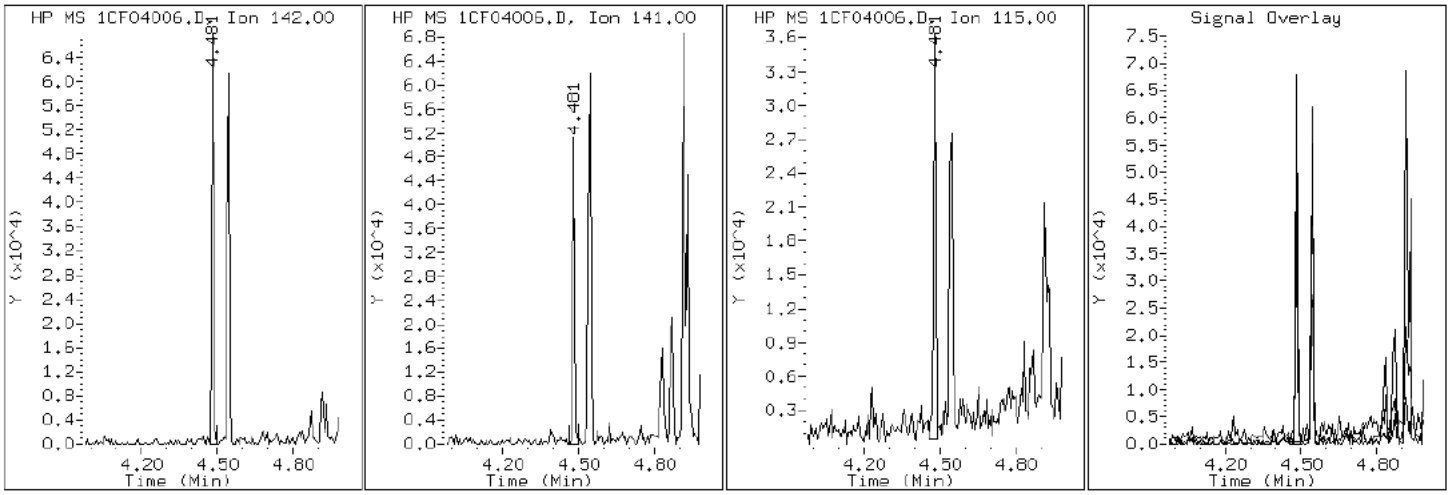
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

3 2-Methylnaphthalene



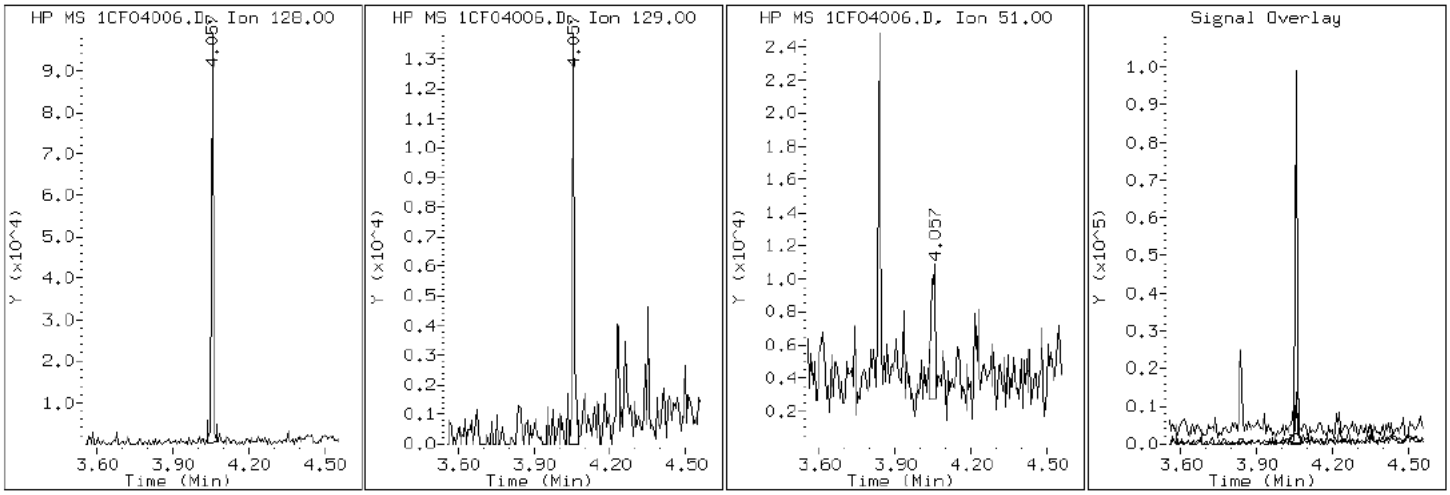
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

2 Naphthalene



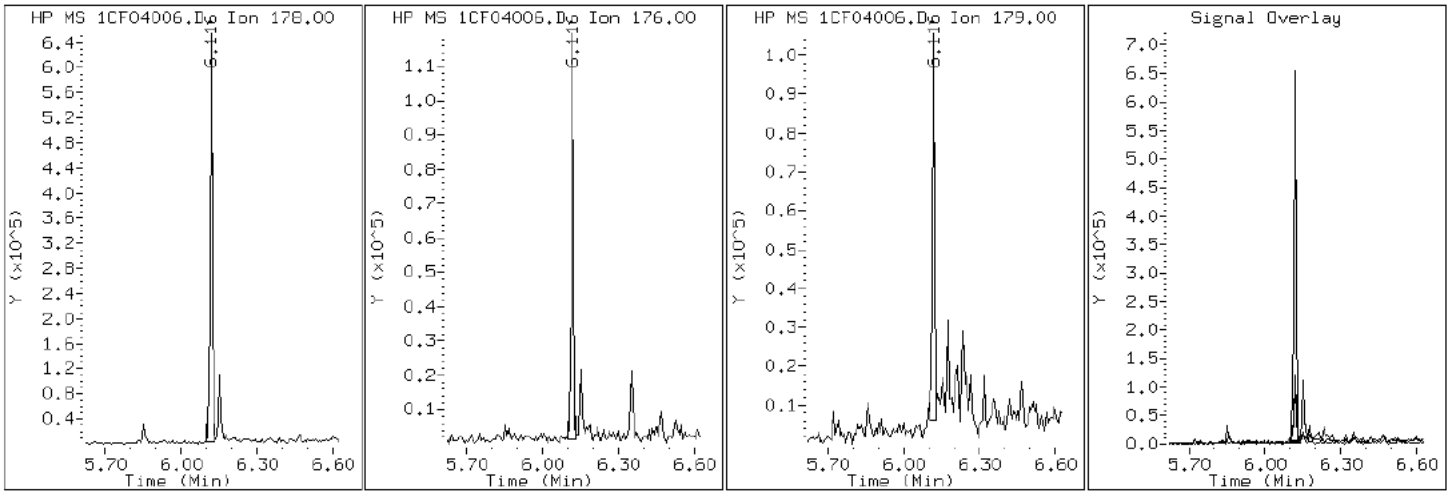
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

11 Phenanthrene



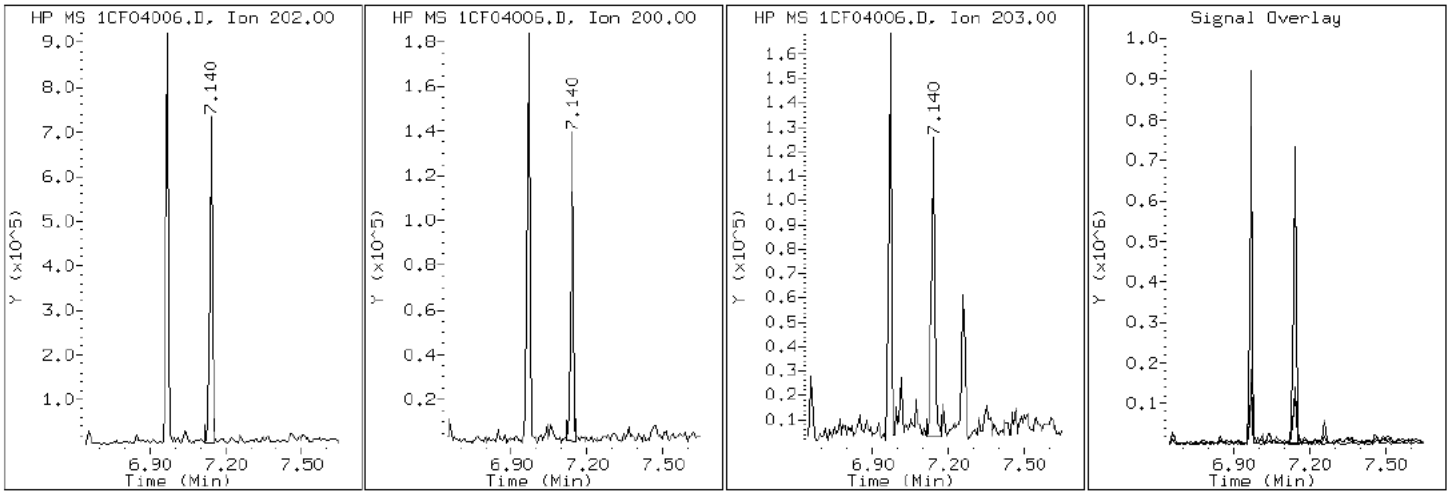
Data File: 1CF04006.D

Date: 04-JUN-2013 11:50

Client ID: CV1271A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04006.D
Inj. Date and Time: 04-JUN-2013 11:50
Instrument ID: BSMC5973.i
Client ID: CV1271A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

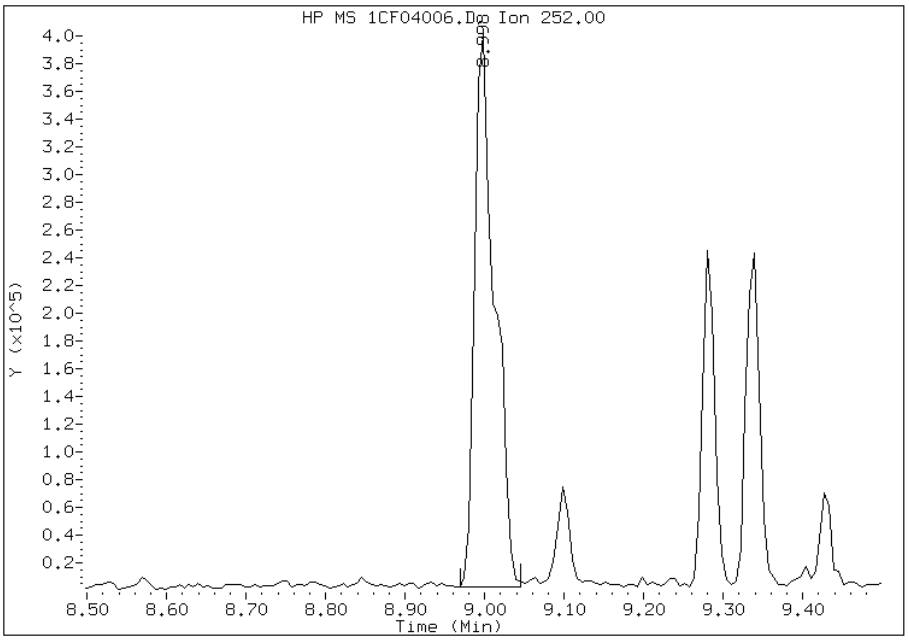
Processing Integration Results

RT: 9.00

Response: 699496

Amount: 8

Conc: 709



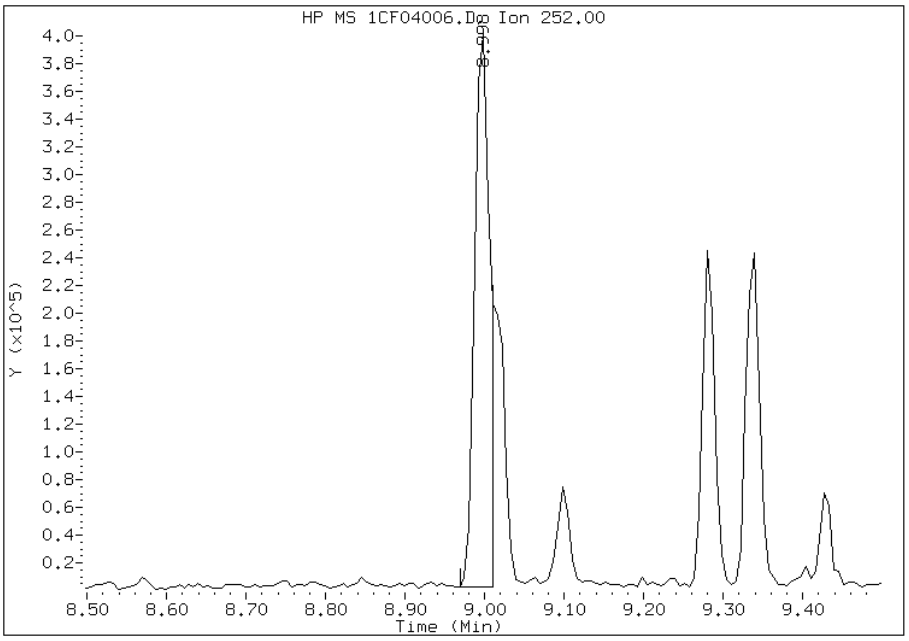
Manual Integration Results

RT: 9.00

Response: 526240

Amount: 6

Conc: 534



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 18:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04006.D
Inj. Date and Time: 04-JUN-2013 11:50
Instrument ID: BSMC5973.i
Client ID: CV1271A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

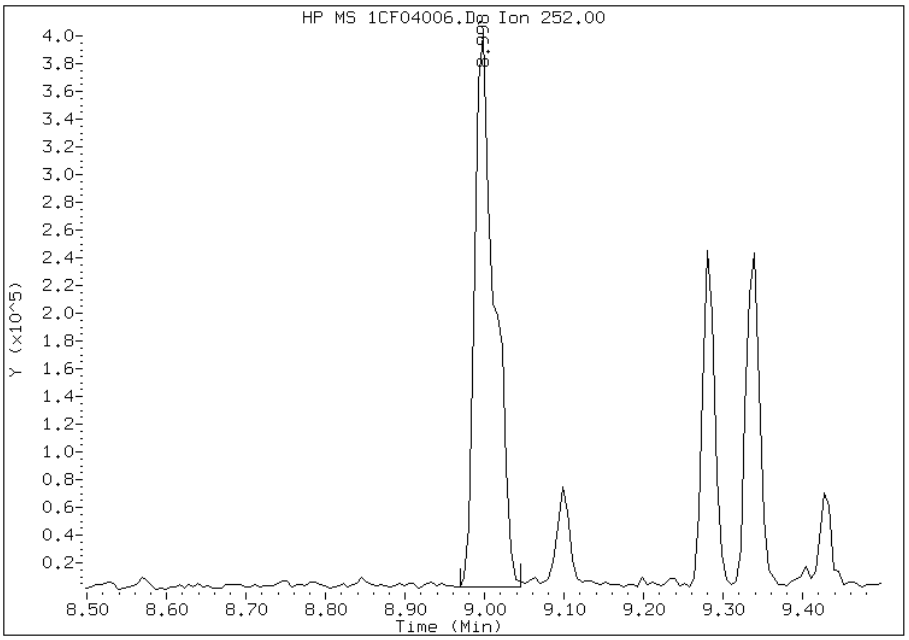
Processing Integration Results

RT: 9.00

Response: 698690

Amount: 7

Conc: 634



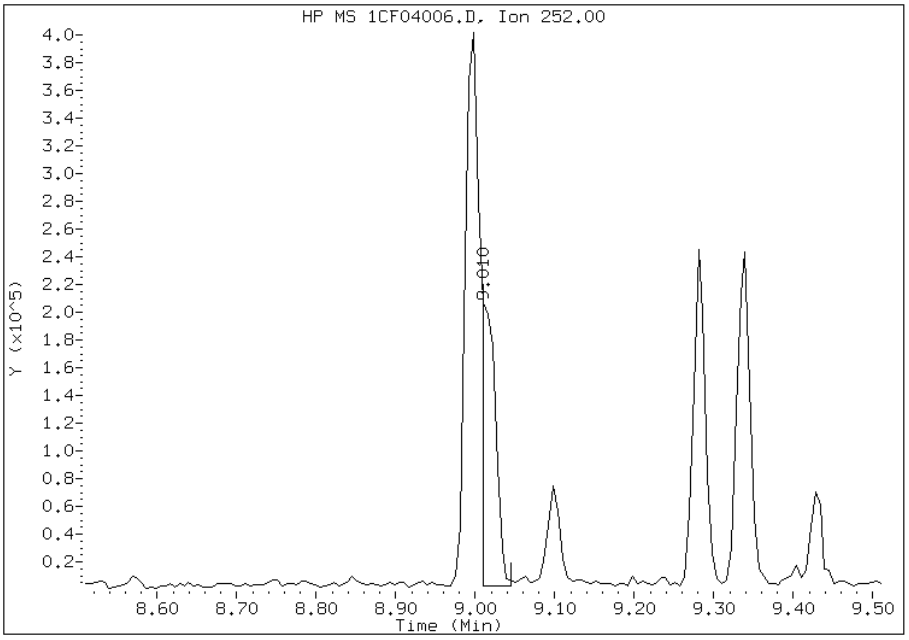
Manual Integration Results

RT: 9.01

Response: 244208

Amount: 3

Conc: 222



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 18:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04006.D
Inj. Date and Time: 04-JUN-2013 11:50
Instrument ID: BSMC5973.i
Client ID: CV1271A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

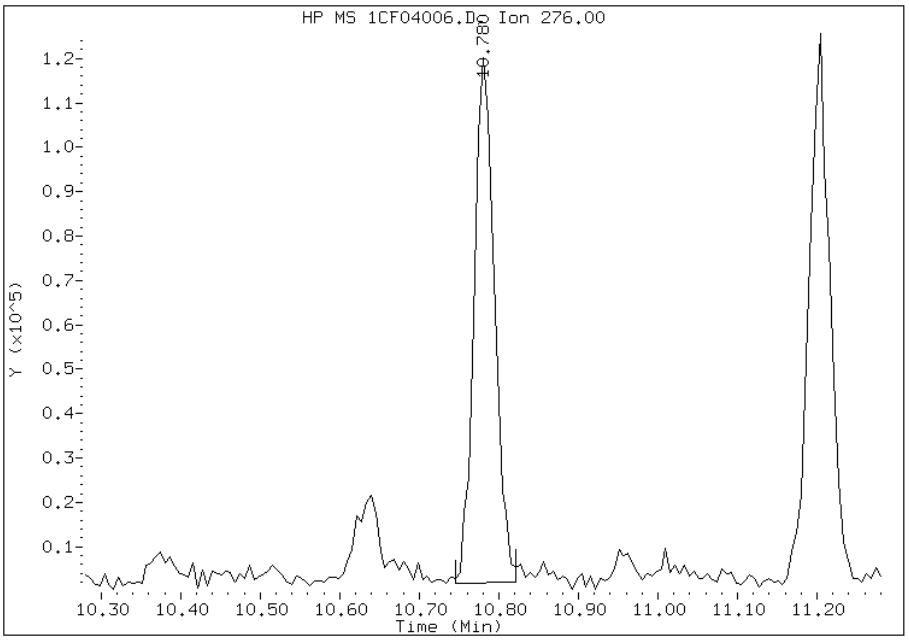
Processing Integration Results

RT: 10.78

Response: 209848

Amount: 2

Conc: 209



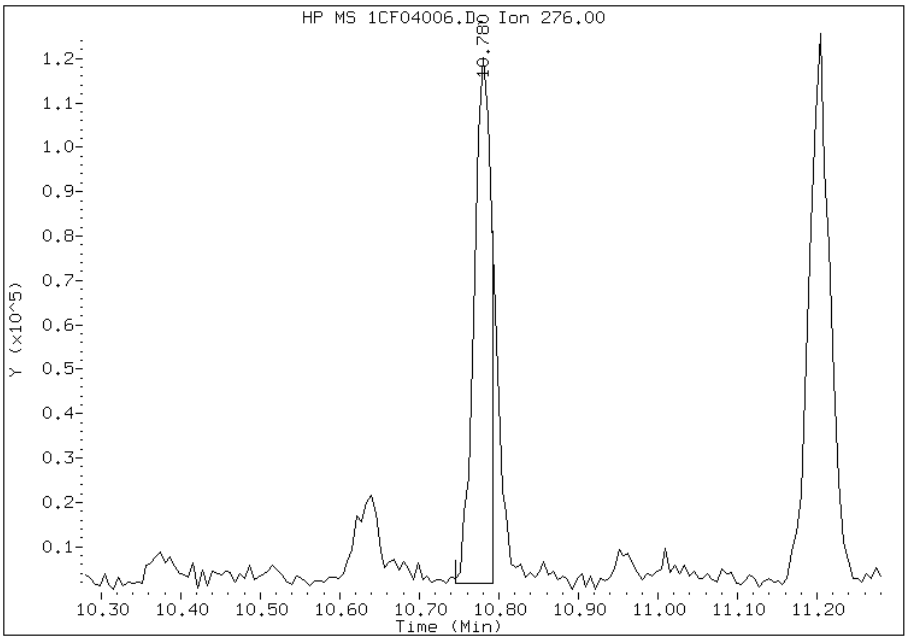
Manual Integration Results

RT: 10.78

Response: 177458

Amount: 2

Conc: 179



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 18:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: FM0028A-CS-SP | Lab Sample ID: 680-90686-30

Matrix: Solid | Lab File ID: 1CF04007.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:07

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 15.04(g) | Date Analyzed: 06/04/2013 12:08

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

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

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	11	J	49	6.1
120-12-7	Anthracene	30		10	5.1
56-55-3	Benzo[a]anthracene	170		9.8	4.8
50-32-8	Benzo[a]pyrene	150		13	6.4
205-99-2	Benzo[b]fluoranthene	290		15	7.5
191-24-2	Benzo[g,h,i]perylene	120		24	5.4
207-08-9	Benzo[k]fluoranthene	69		9.8	4.4
218-01-9	Chrysene	200		11	5.5
53-70-3	Dibenz(a,h)anthracene	36		24	5.0
206-44-0	Fluoranthene	250		24	4.9
86-73-7	Fluorene	12	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	120		24	8.7
90-12-0	1-Methylnaphthalene	56		49	5.4
91-57-6	2-Methylnaphthalene	68		49	8.7
91-20-3	Naphthalene	54		49	5.4
85-01-8	Phenanthrene	140	B	9.8	4.8
129-00-0	Pyrene	220		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04007.D
Lab Smp Id: 680-90686-A-30-A Client Smp ID: FM0028A-CS-SP
Inj Date : 04-JUN-2013 12:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90686-a-30-a
Misc Info : 680-90686-A-30-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	18.519	% 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	4.045	4.045	(1.000)	2679013	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1932973	40.0000	
*	10 Phenanthrene-d10	188	6.098	6.104	(1.000)	3474938	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.041)	432723	7.99404	652.3185
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3616697	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3317527	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	50148	0.66332	54.1273
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	35097	0.83696	68.2965
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	28390	0.68812	56.1509
	5 Acenaphthylene	152	5.045	5.045	(0.983)	9596	0.12950	10.5670
	9 Fluorene	166	5.474	5.480	(1.066)	8548	0.14417	11.7640(Q)
	11 Phenanthrene	178	6.116	6.121	(1.003)	182370	1.77637	144.9529
	12 Anthracene	178	6.151	6.157	(1.009)	35523	0.37349	30.4766
	13 Carbazole	167	6.251	6.257	(1.025)	25254	0.39912	32.5687

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.143)	323706	3.08477	251.7187
16 Pyrene	202	7.139	7.145	(0.885)	264571	2.70905	221.0596
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	206494	2.07056	168.9589
19 Chrysene	228	8.086	8.092	(1.003)	240212	2.39234	195.2165
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	290713	3.56659	291.0361(M)
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.959)	76588	0.84128	68.6485(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	144242	1.83113	149.4214
24 Indeno(1,2,3-cd)pyrene	276	10.780	10.792	(1.146)	112544	1.42684	116.4306(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	31349	0.44272	36.1264
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	117587	1.52569	124.4972

QC Flag Legend

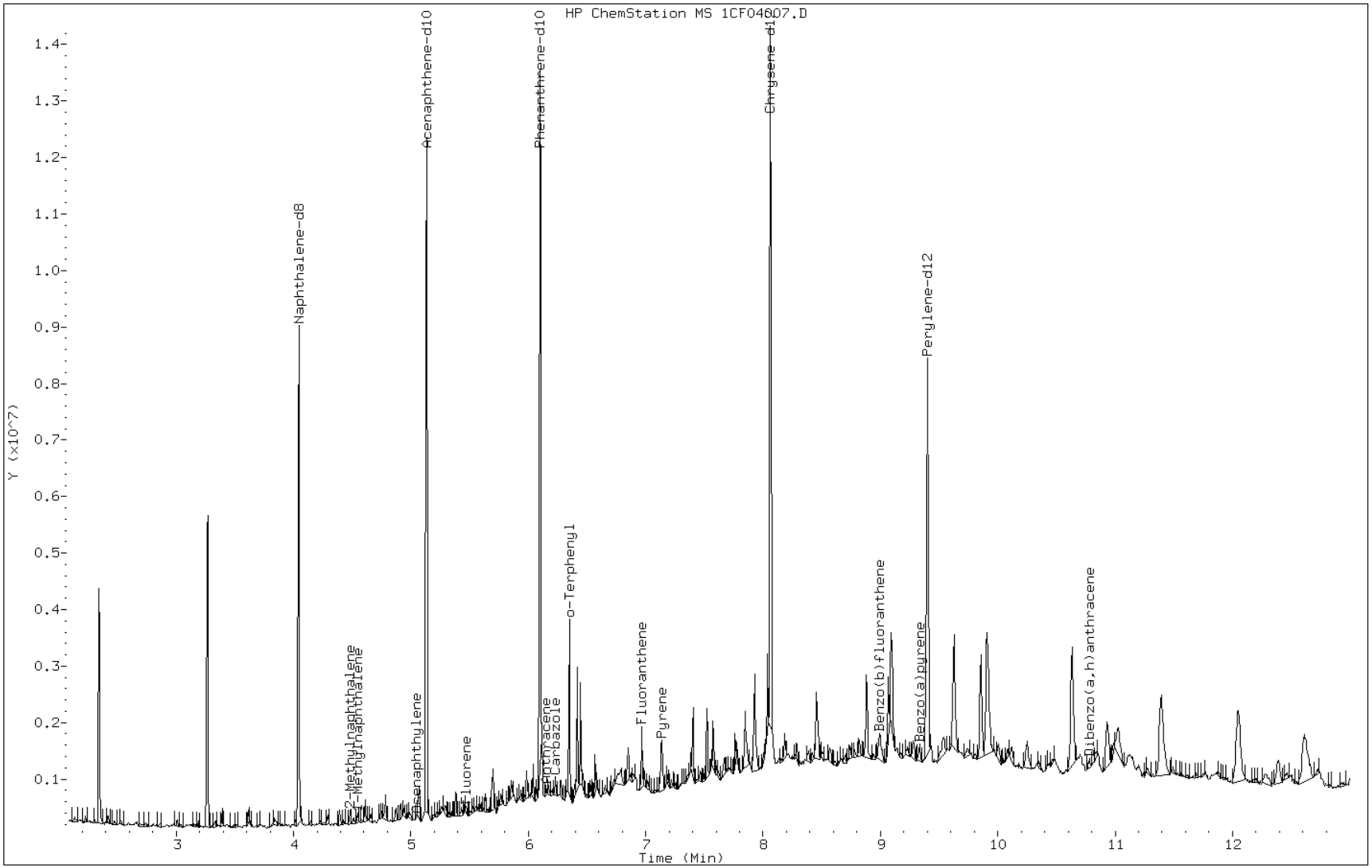
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC



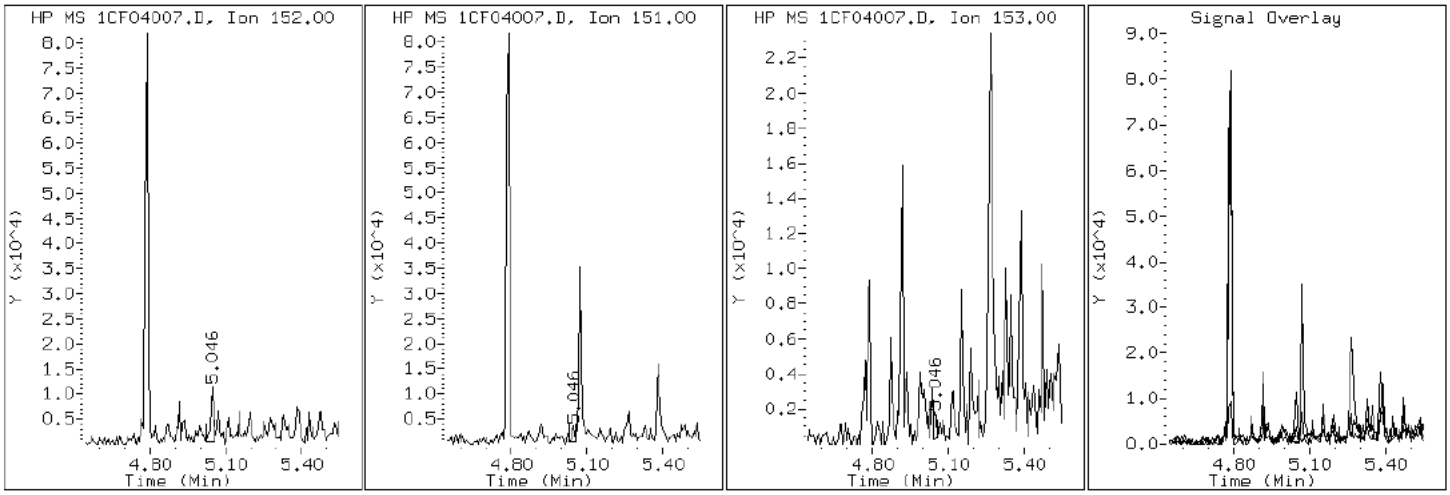
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

5 Acenaphthylene



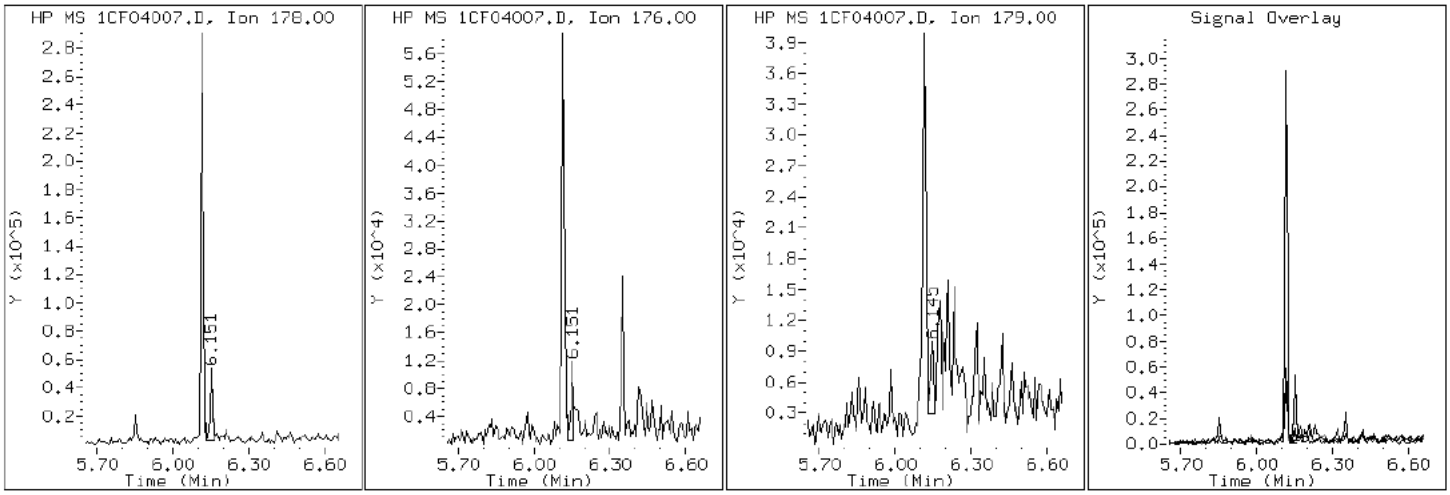
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

12 Anthracene



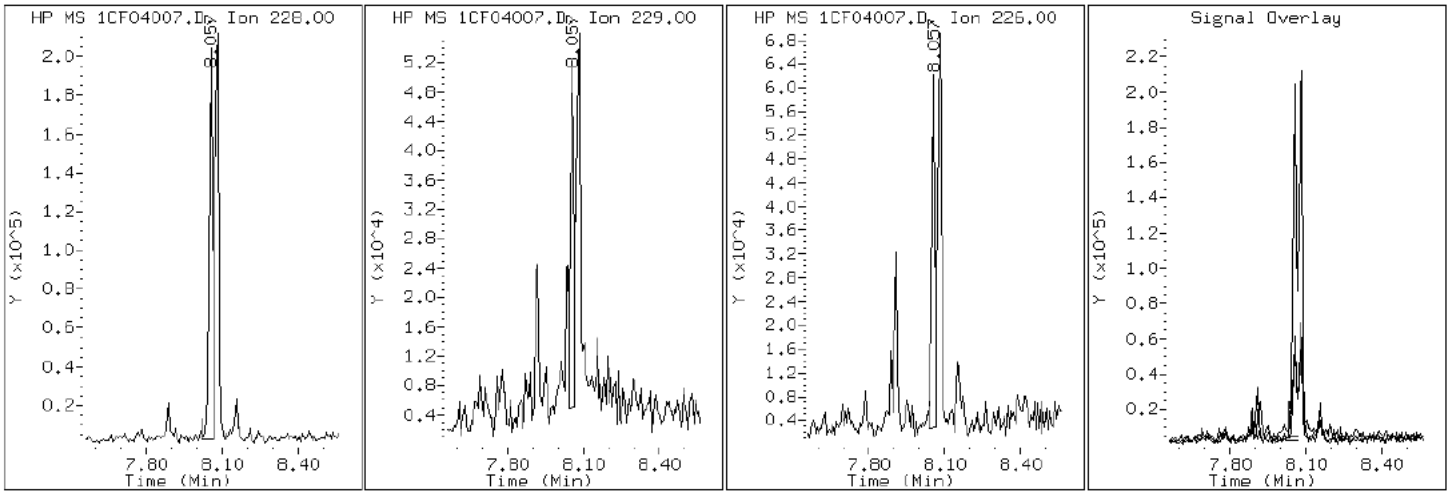
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

17 Benzo(a)anthracene



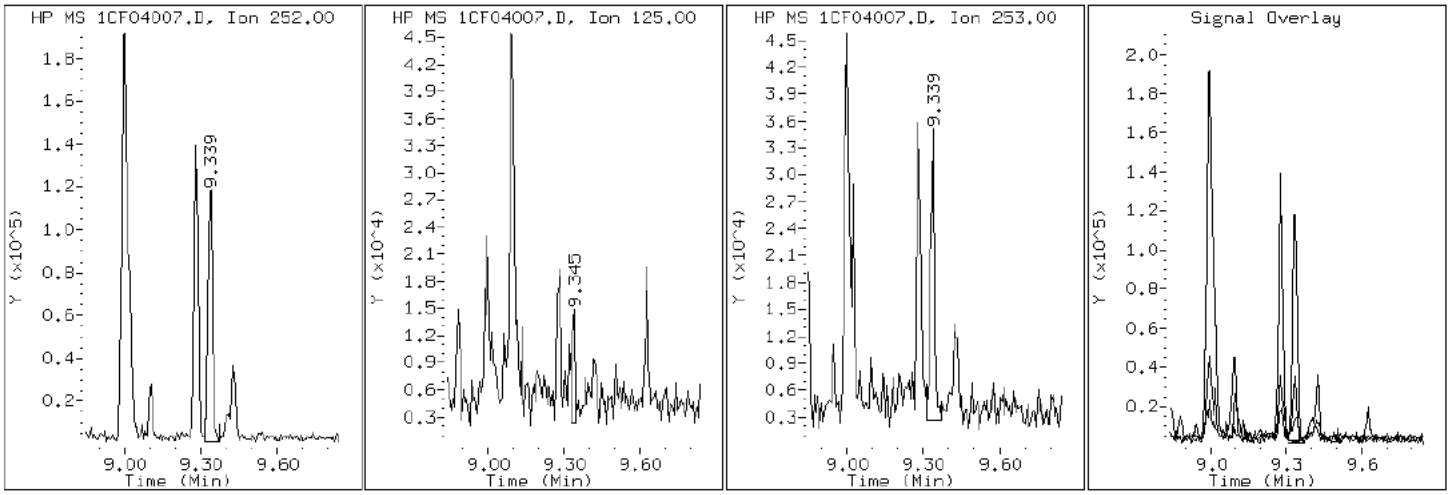
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

22 Benzo(a)pyrene



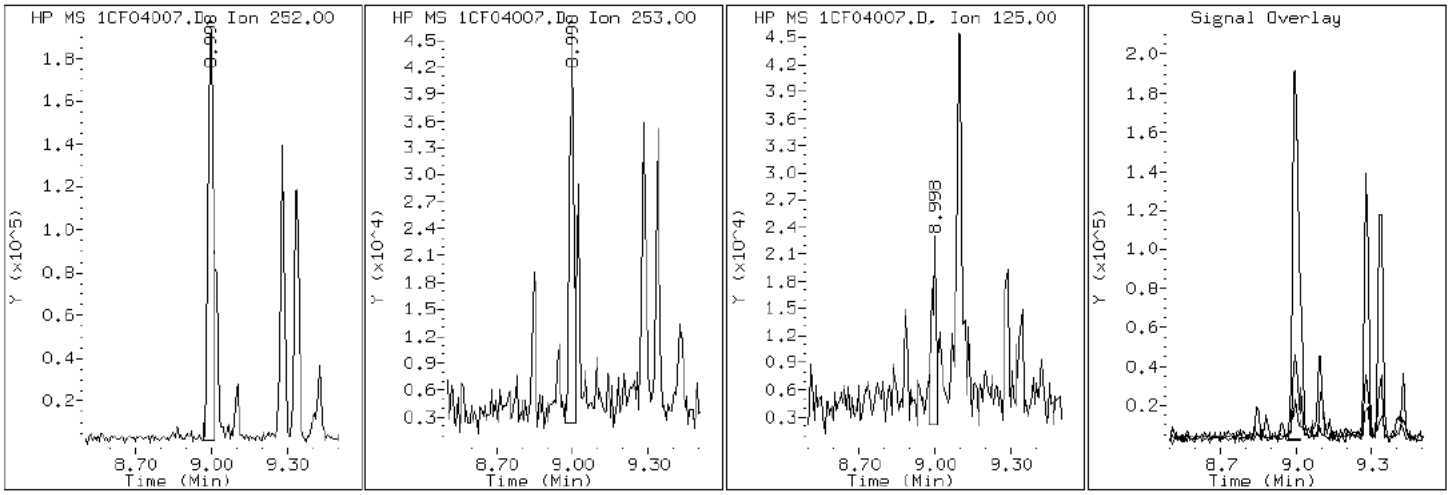
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



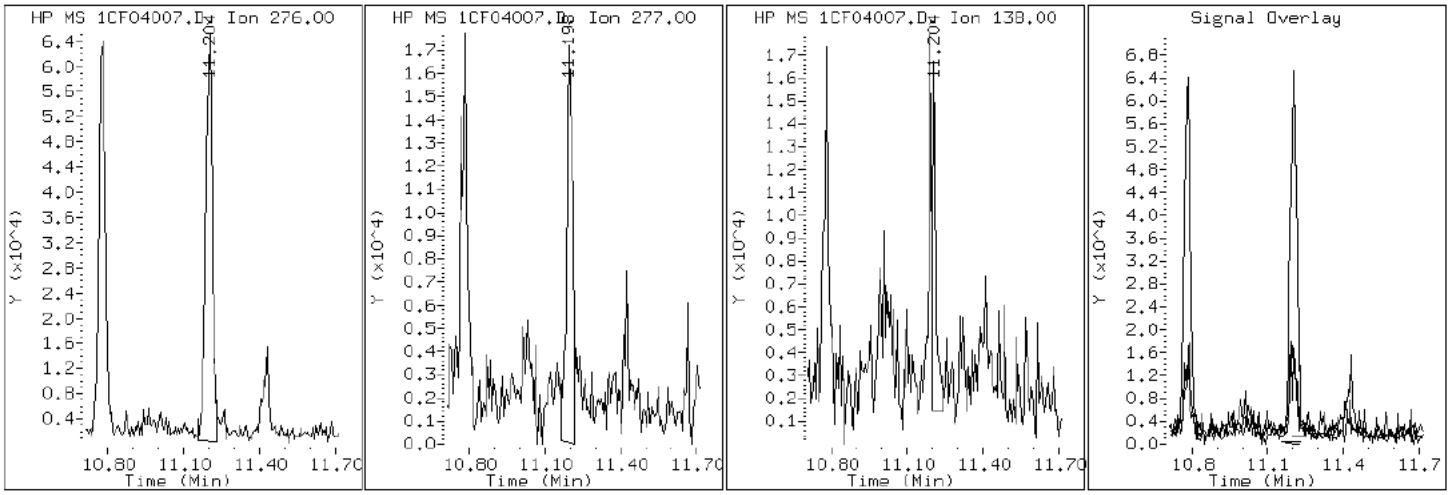
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



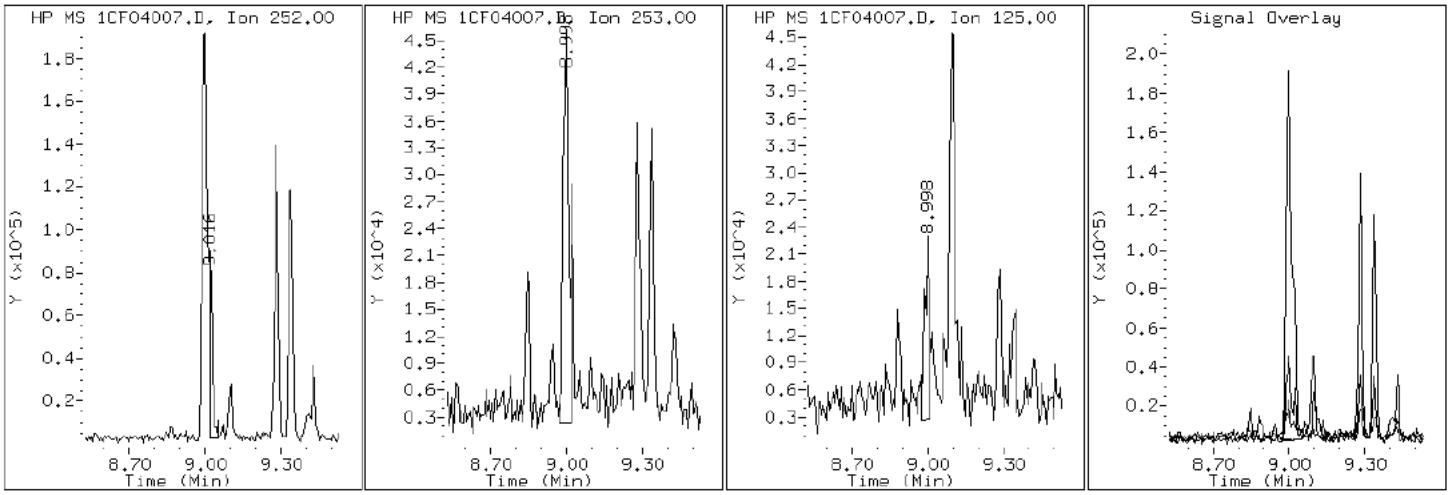
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



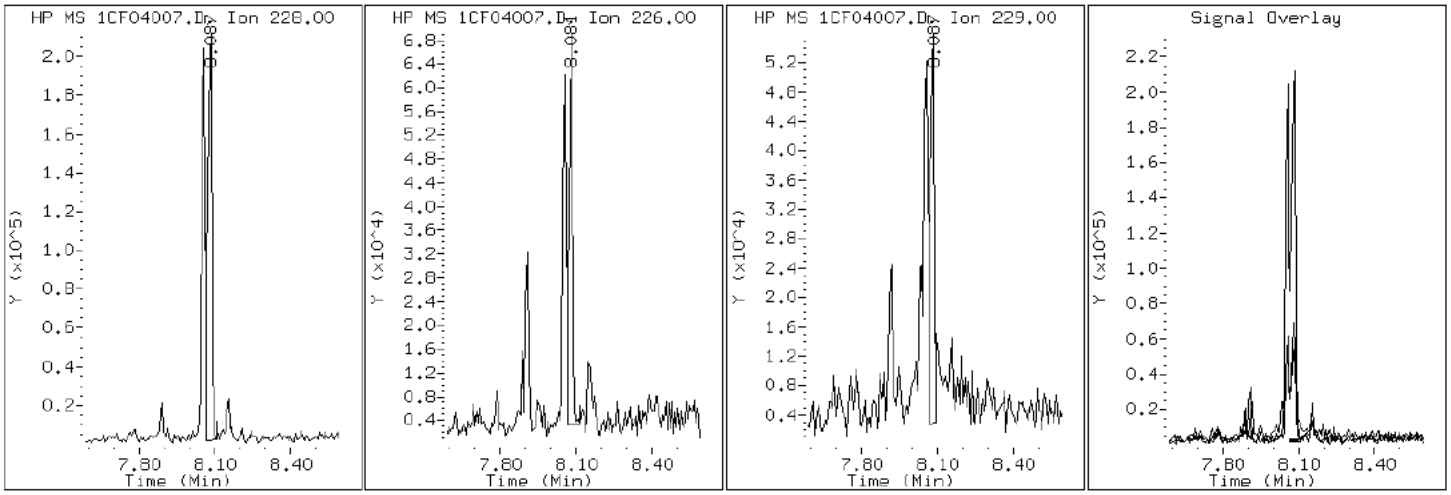
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

19 Chrysene



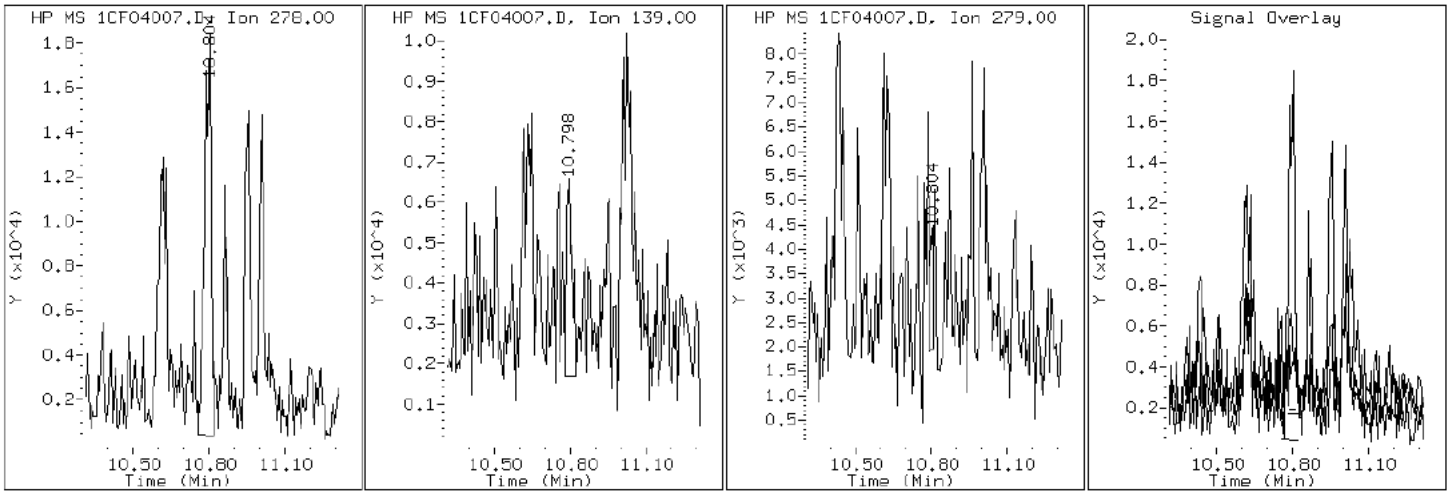
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



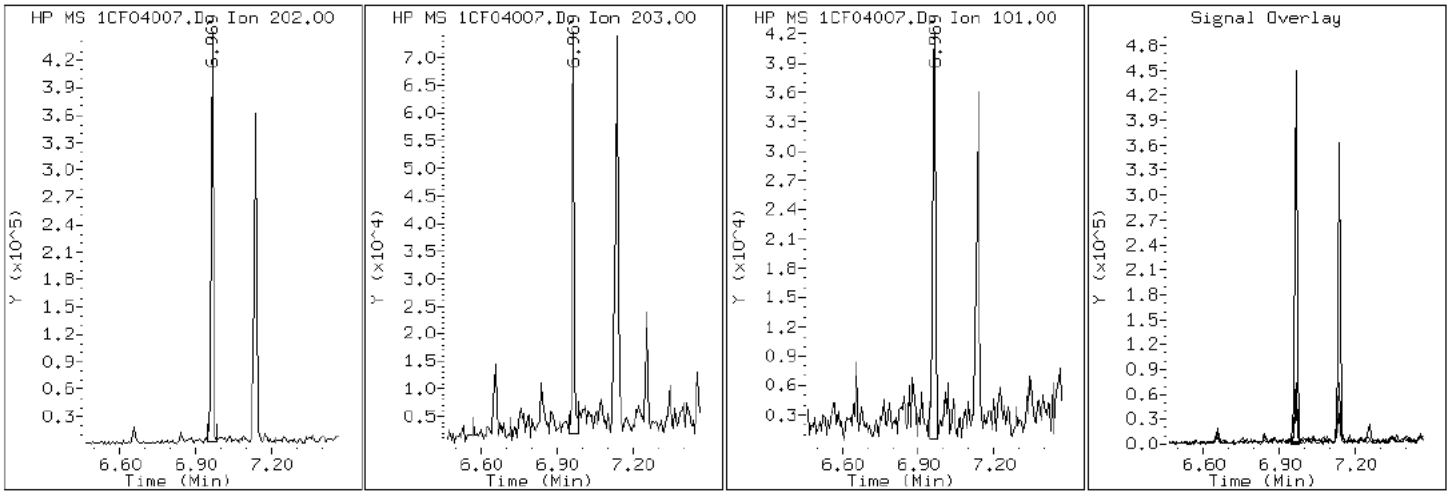
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

15 Fluoranthene



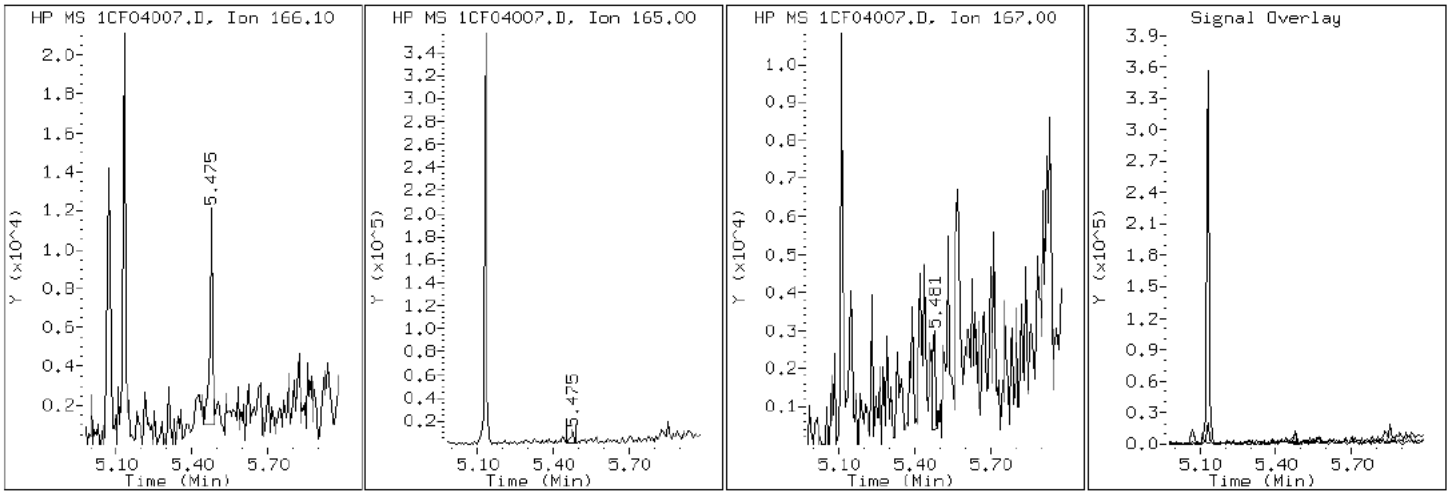
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

9 Fluorene



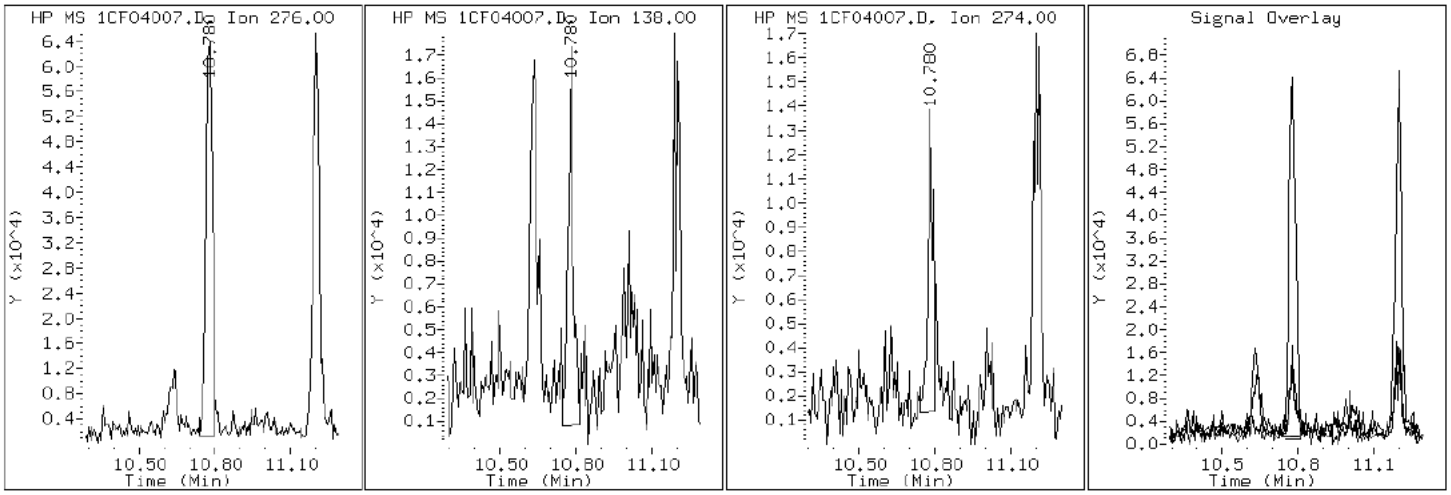
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

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



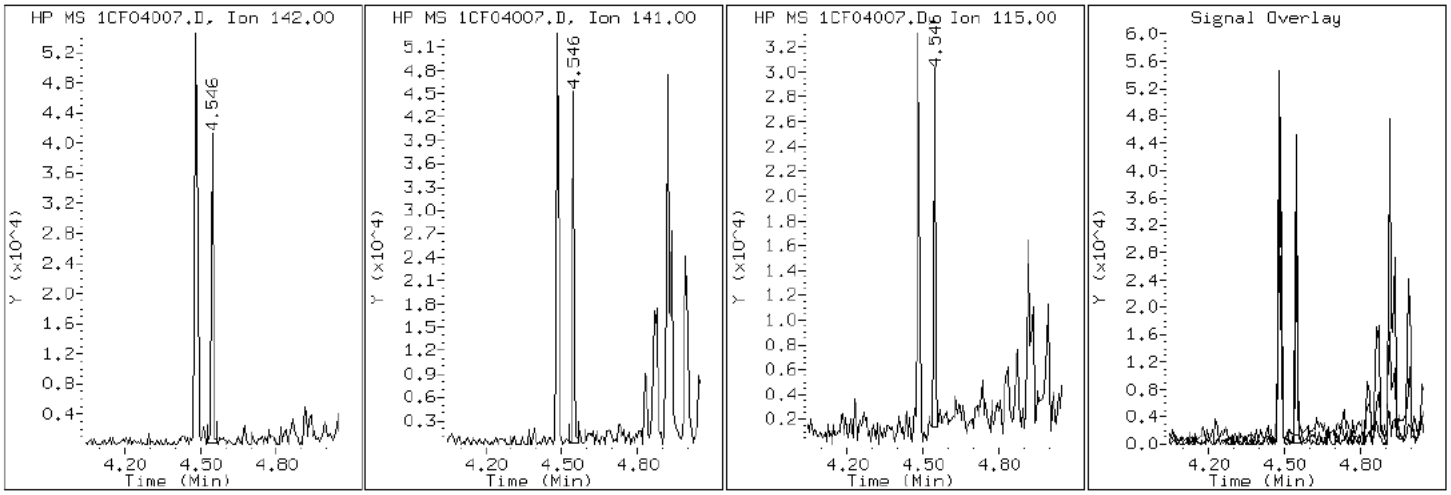
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

4 1-Methylnaphthalene



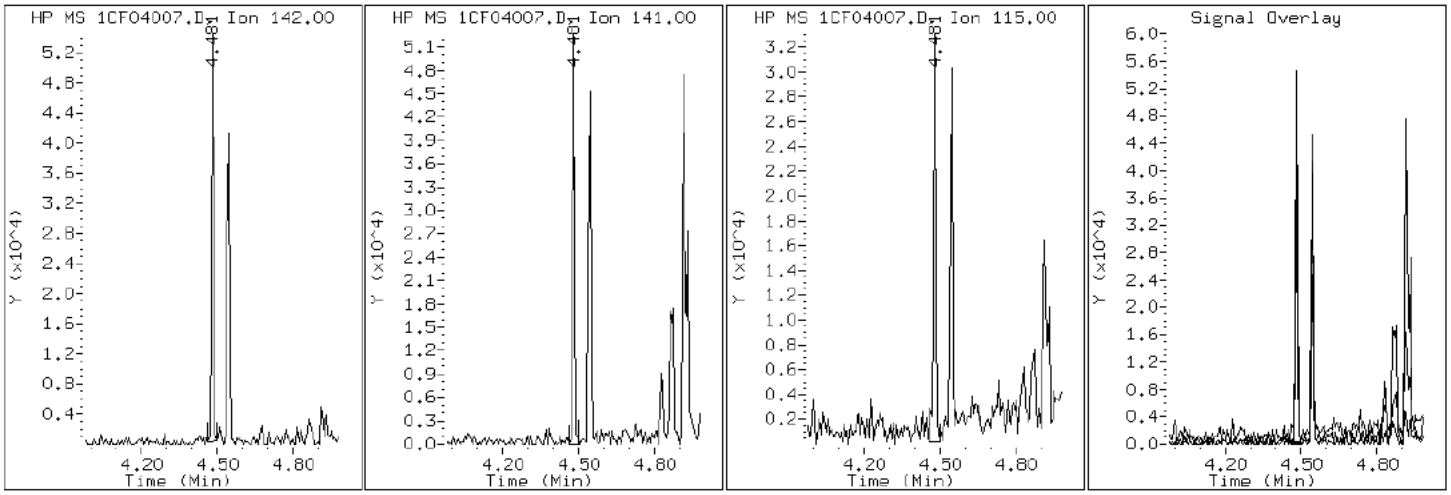
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

3 2-Methylnaphthalene



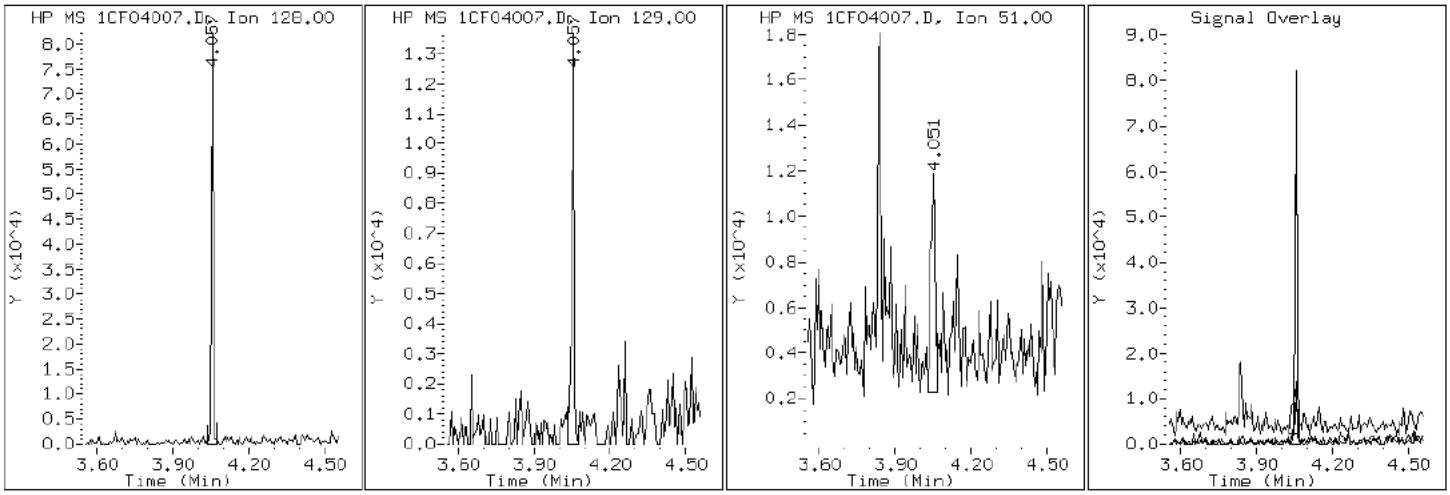
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

2 Naphthalene



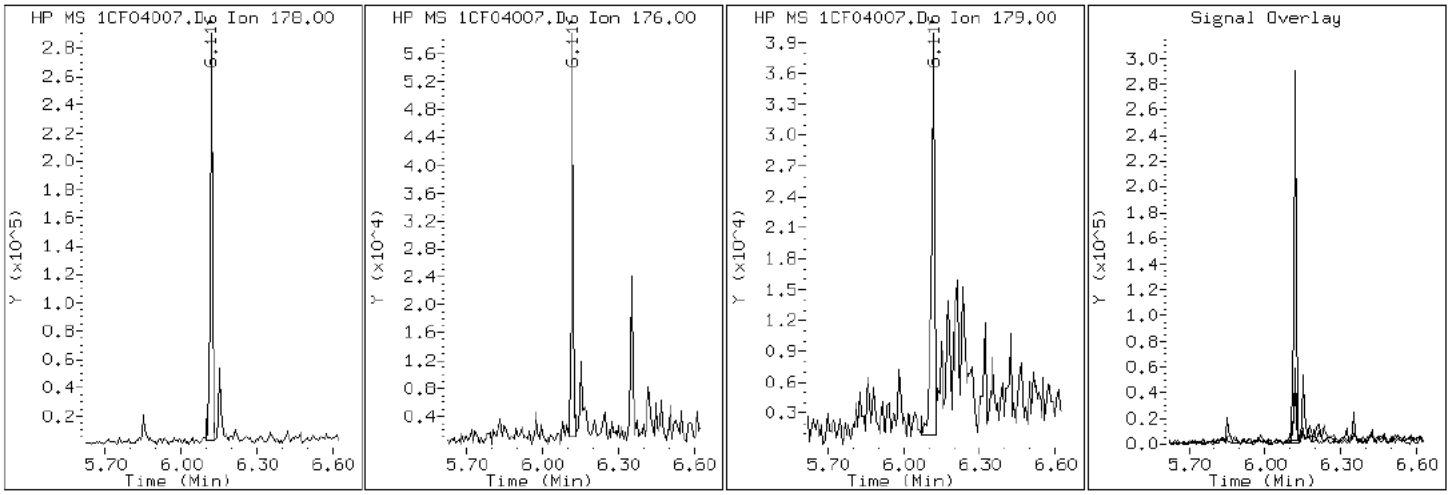
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

11 Phenanthrene



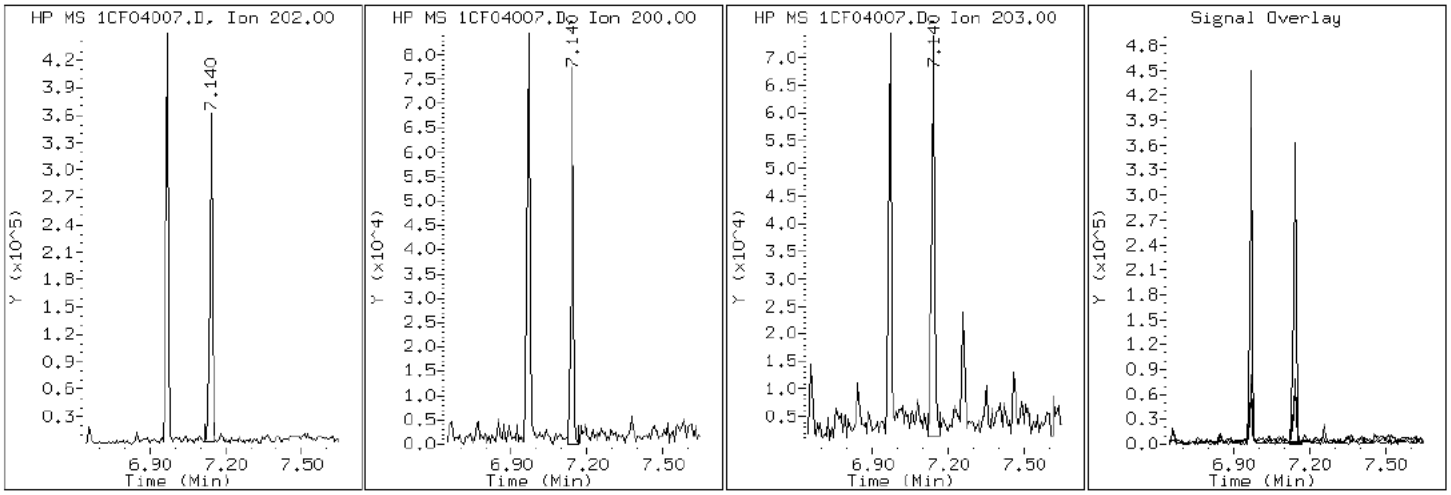
Data File: 1CF04007.D

Date: 04-JUN-2013 12:08

Client ID: FM0028A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04007.D
Inj. Date and Time: 04-JUN-2013 12:08
Instrument ID: BSMC5973.i
Client ID: FM0028A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

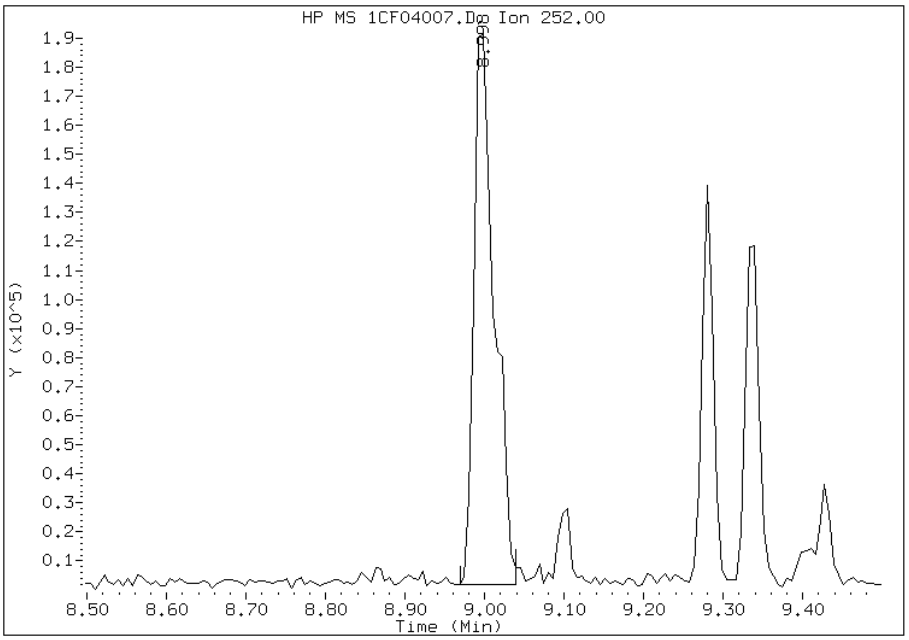
Processing Integration Results

RT: 9.00

Response: 339033

Amount: 4

Conc: 339



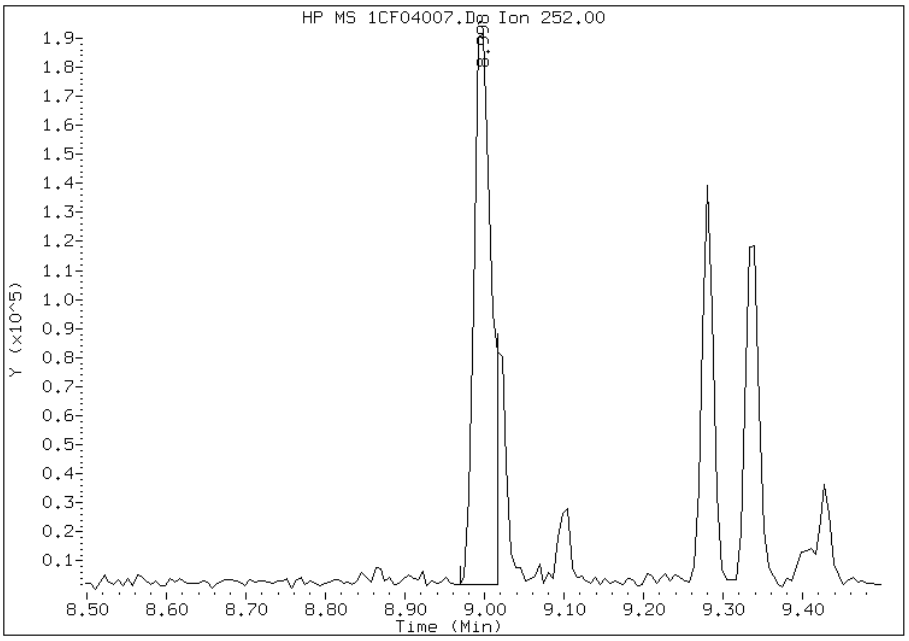
Manual Integration Results

RT: 9.00

Response: 290713

Amount: 4

Conc: 291



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04007.D
Inj. Date and Time: 04-JUN-2013 12:08
Instrument ID: BSMC5973.i
Client ID: FM0028A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

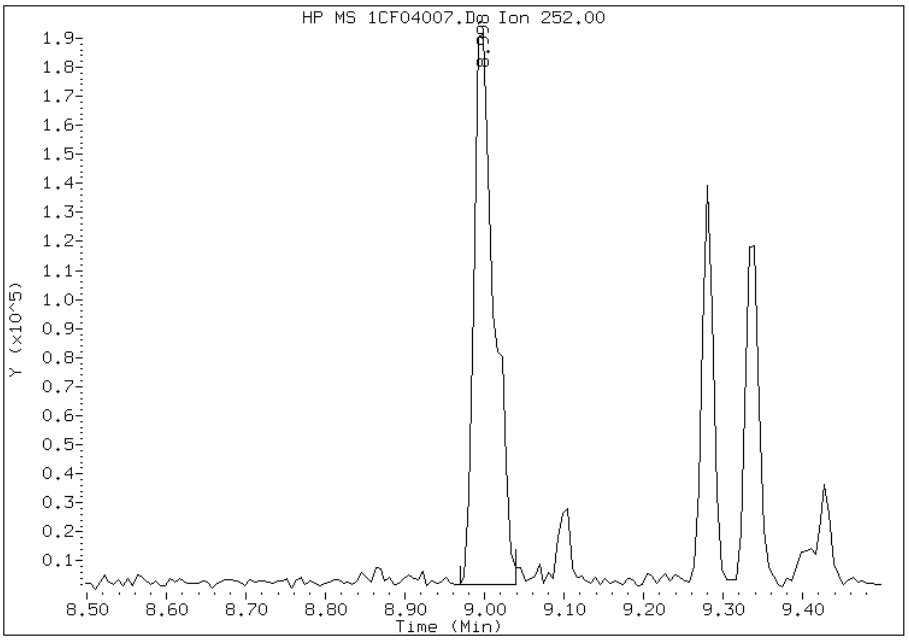
Processing Integration Results

RT: 9.00

Response: 339033

Amount: 4

Conc: 304



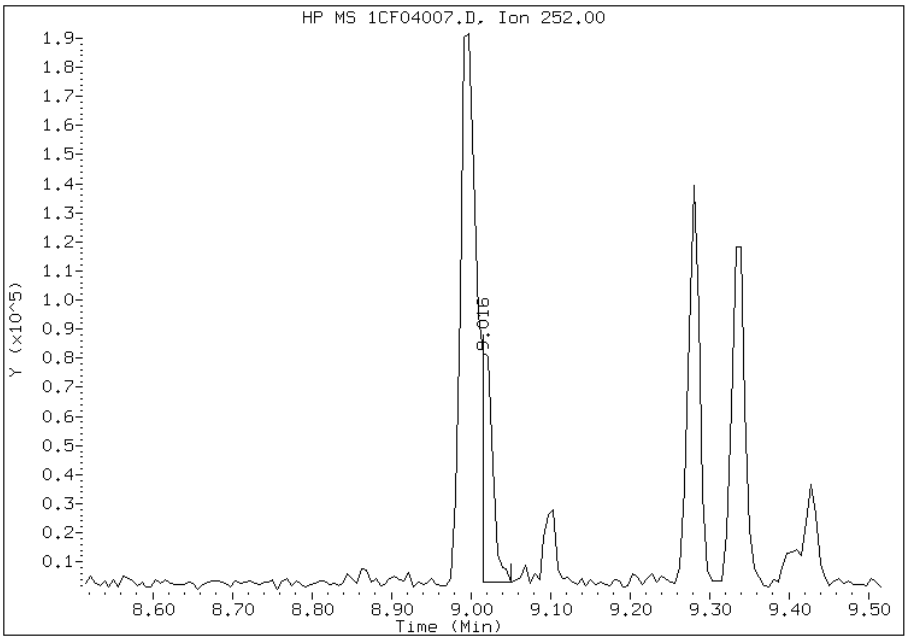
Manual Integration Results

RT: 9.02

Response: 76588

Amount: 1

Conc: 69



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04007.D
Inj. Date and Time: 04-JUN-2013 12:08
Instrument ID: BSMC5973.i
Client ID: FM0028A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

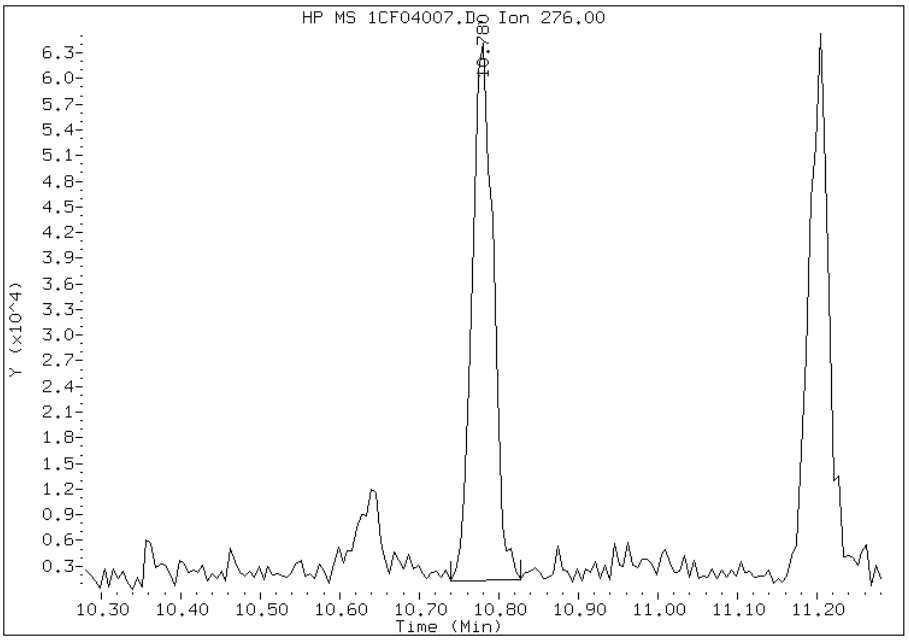
Processing Integration Results

RT: 10.78

Response: 115392

Amount: 1

Conc: 119



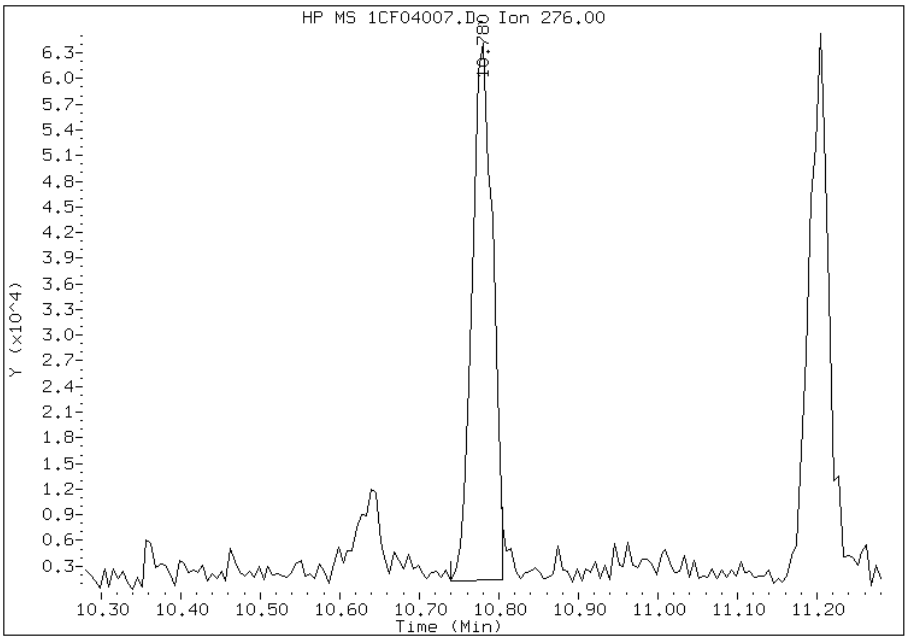
Manual Integration Results

RT: 10.78

Response: 112544

Amount: 1

Conc: 116



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: FM0028B-CS-SP | Lab Sample ID: 680-90686-31

Matrix: Solid | Lab File ID: 1CF05024.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:21

Extract. Method: 3546 | Date Extracted: 06/05/2013 08:37

Sample wt/vol: 15.12(g) | Date Analyzed: 06/05/2013 18:54

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

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

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	15	J	54	6.8
120-12-7	Anthracene	14		11	5.7
56-55-3	Benzo[a]anthracene	88		11	5.3
50-32-8	Benzo[a]pyrene	63		14	7.1
205-99-2	Benzo[b]fluoranthene	120		17	8.3
191-24-2	Benzo[g,h,i]perylene	55		27	6.0
207-08-9	Benzo[k]fluoranthene	31		11	4.9
218-01-9	Chrysene	97		12	6.1
53-70-3	Dibenz(a,h)anthracene	17	J	27	5.6
206-44-0	Fluoranthene	120		27	5.4
86-73-7	Fluorene	23	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	47		27	9.6
90-12-0	1-Methylnaphthalene	41	J	54	6.0
91-57-6	2-Methylnaphthalene	54		54	9.6
91-20-3	Naphthalene	56		54	6.0
85-01-8	Phenanthrene	110	B	11	5.3
129-00-0	Pyrene	100	B	27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05024.D
Lab Smp Id: 680-90686-A-31-B Client Smp ID: FM0028B-CS-SP
Inj Date : 05-JUN-2013 18:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90686-a-31-b
Misc Info : 680-90686-A-31-B
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	27.007	% 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	4.039	4.039	(1.000)	2376376	40.0000	
*	6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1697573	40.0000	
*	10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3040048	40.0000	
$	14 o-Terphenyl	230	6.345	6.345	(1.042)	337337	7.12340	645.4399
*	18 Chrysene-d12	240	8.056	8.056	(1.000)	3275488	40.0000	
*	23 Perylene-d12	264	9.392	9.392	(1.000)	3358222	40.0000	
	2 Naphthalene	128	4.051	4.051	(1.003)	41758	0.62269	56.4206
	3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	21982	0.59097	53.5465
	4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	16529	0.45165	40.9235
	5 Acenaphthylene	152	5.039	5.039	(0.983)	10468	0.16085	14.5747
	9 Fluorene	166	5.468	5.468	(1.067)	13167	0.25286	22.9114(Q)
	11 Phenanthrene	178	6.109	6.110	(1.003)	113114	1.25940	114.1122
	12 Anthracene	178	6.145	6.145	(1.009)	12613	0.15158	13.7346
	13 Carbazole	167	6.251	6.251	(1.026)	17984	0.34625	31.3727

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.956	6.962	(1.142)	123166	1.34162	121.5619
16 Pyrene	202	7.133	7.133	(0.885)	99635	1.12648	102.0682
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	88174	0.97624	88.4557
19 Chrysene	228	8.074	8.074	(1.002)	97819	1.07569	97.4668
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	106853	1.29503	117.3410(M)
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	31100	0.33748	30.5781(QM)
22 Benzo(a)pyrene	252	9.321	9.327	(0.992)	50123	0.69477	62.9520
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	32201	0.51695	46.8402(M)
25 Dibenzo(a,h)anthracene	278	10.774	10.786	(1.147)	13360	0.18639	16.8884(Q)
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	47174	0.60467	54.7877

QC Flag Legend

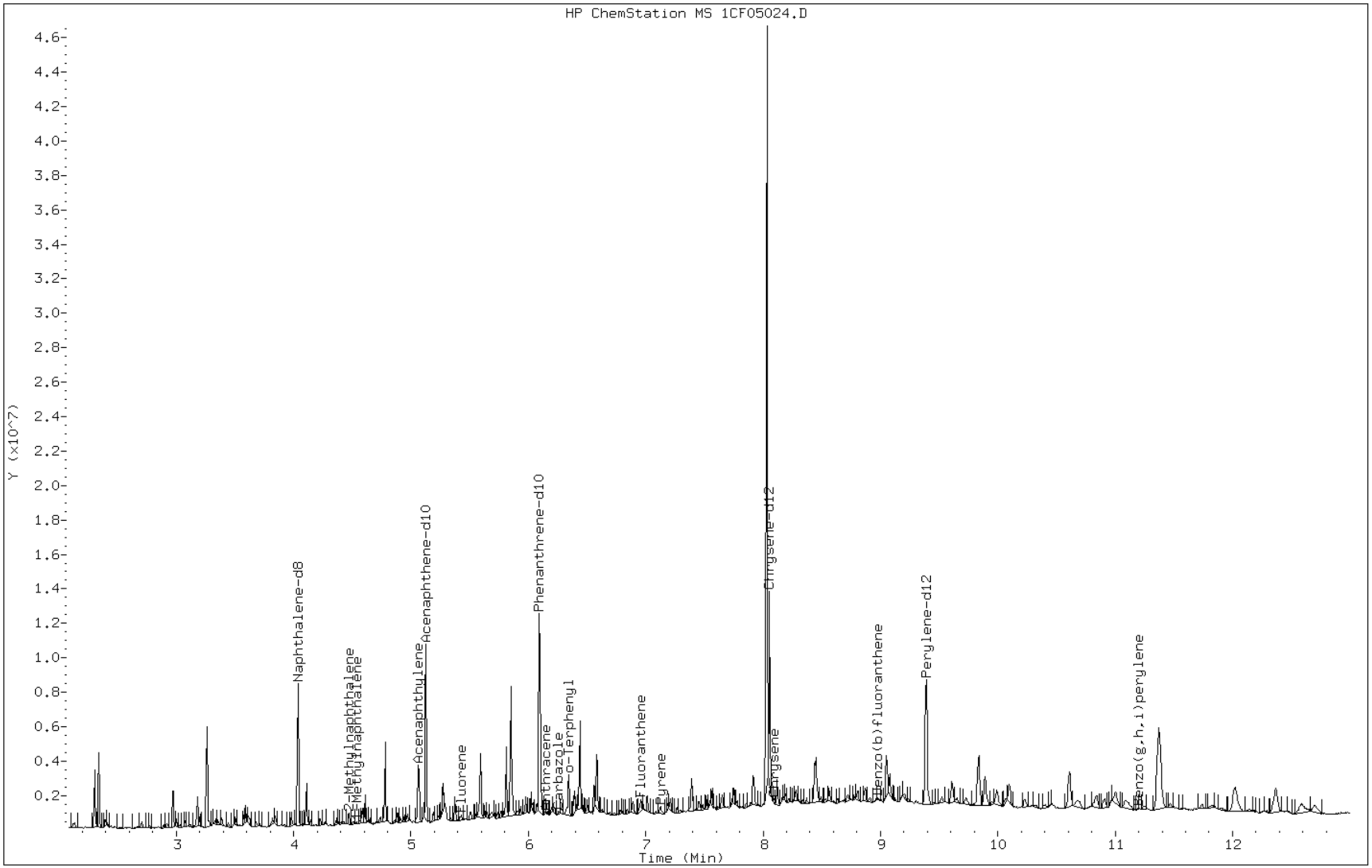
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC



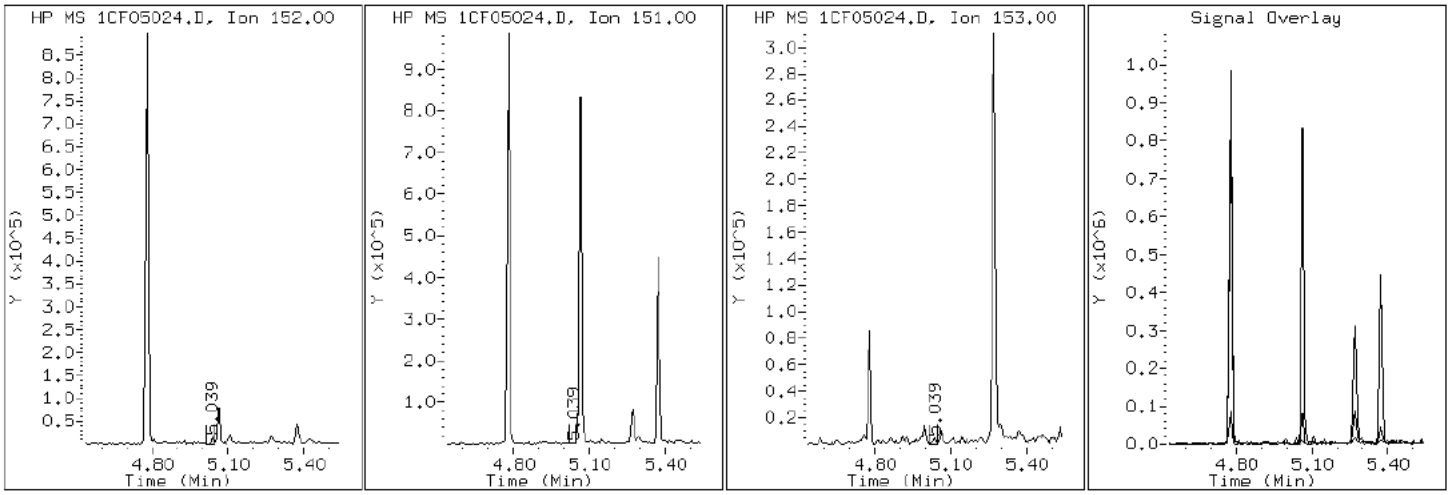
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

5 Acenaphthylene



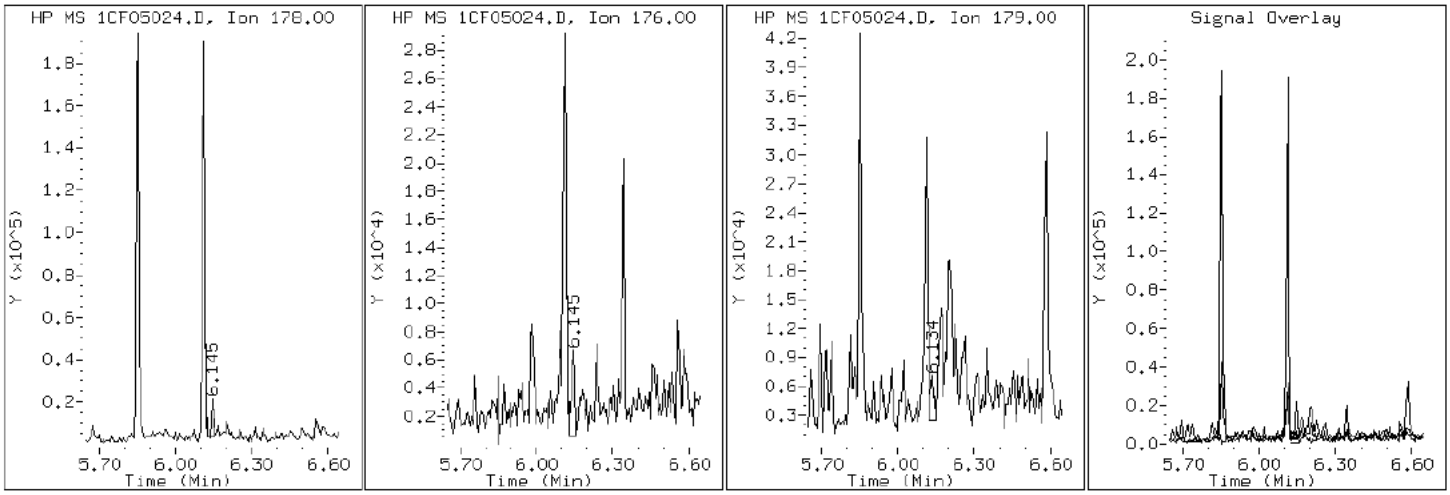
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

12 Anthracene



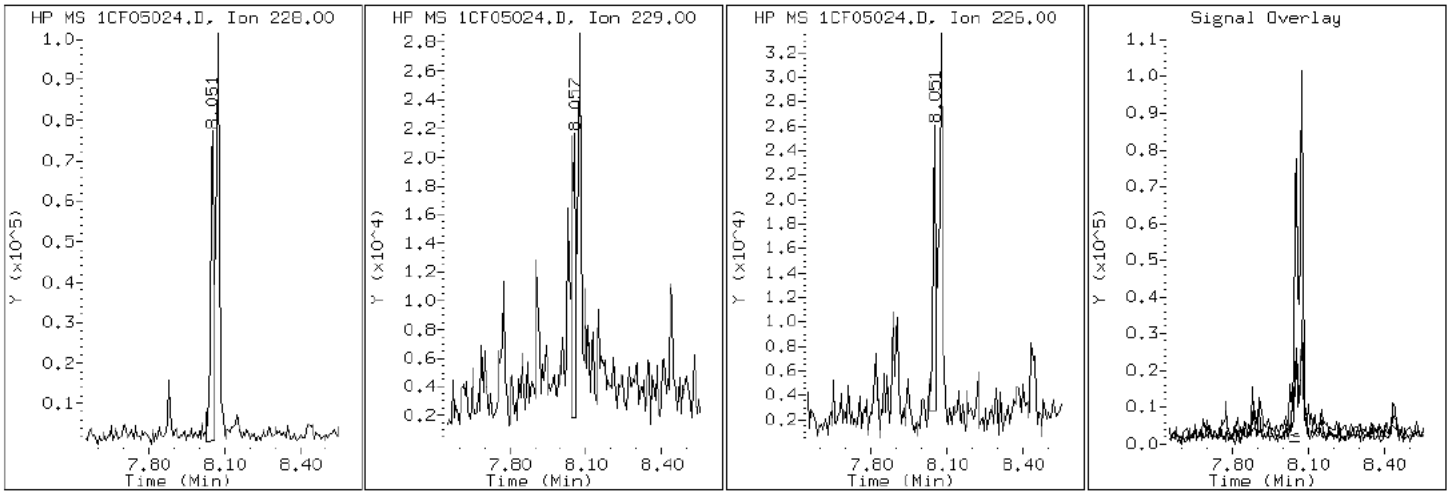
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

17 Benzo(a)anthracene



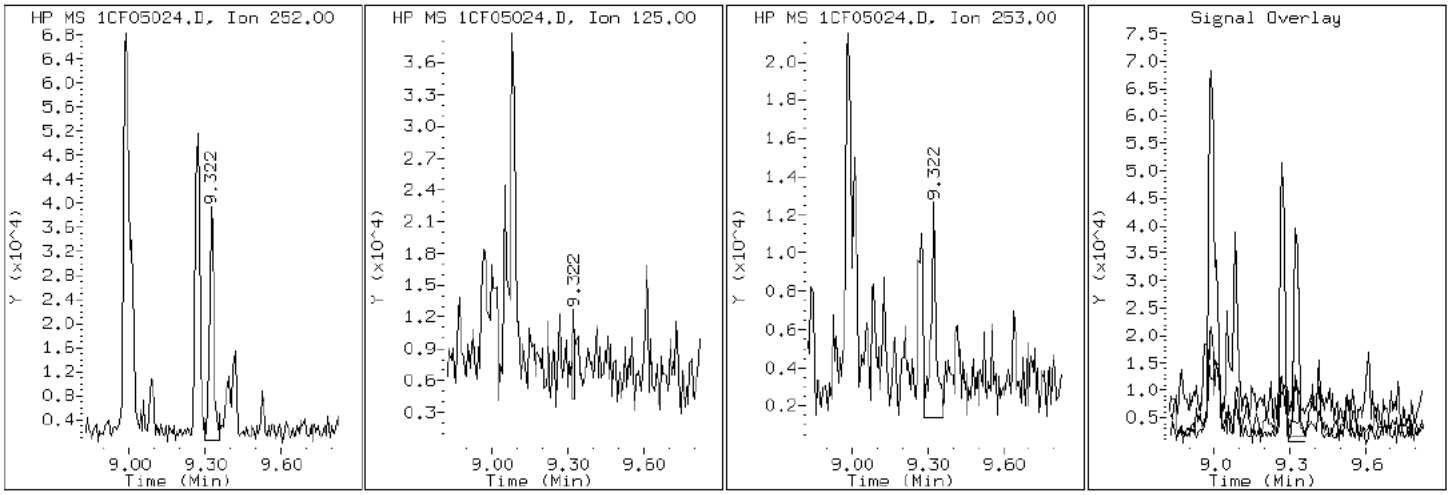
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

22 Benzo(a)pyrene



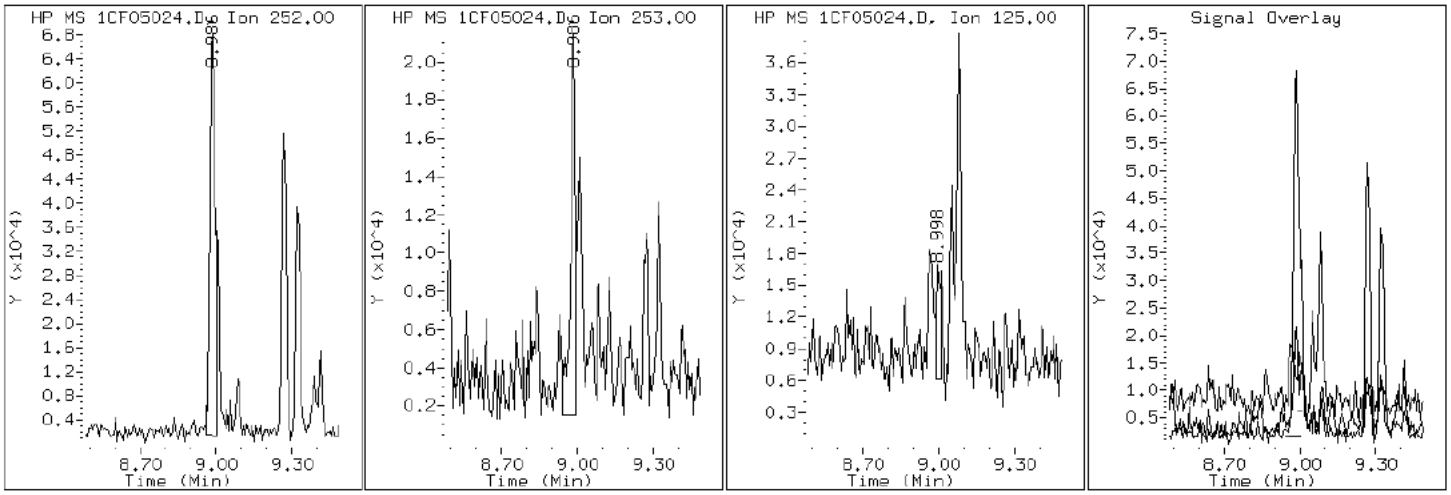
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

20 Benzo(b)fluoranthene



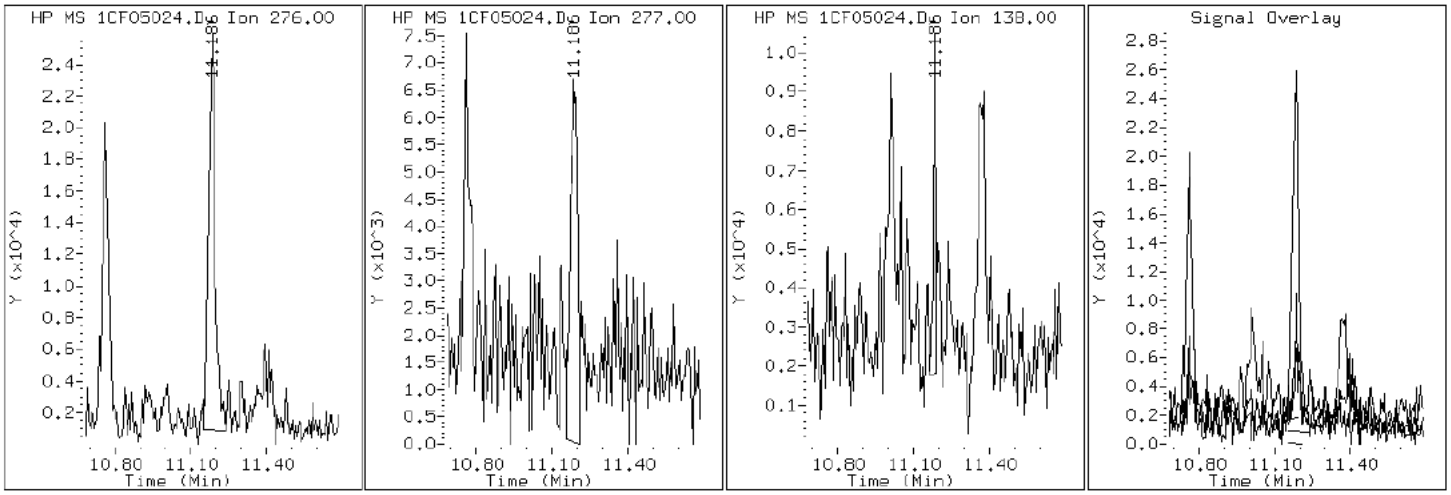
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

26 Benzo(g,h,i)perylene



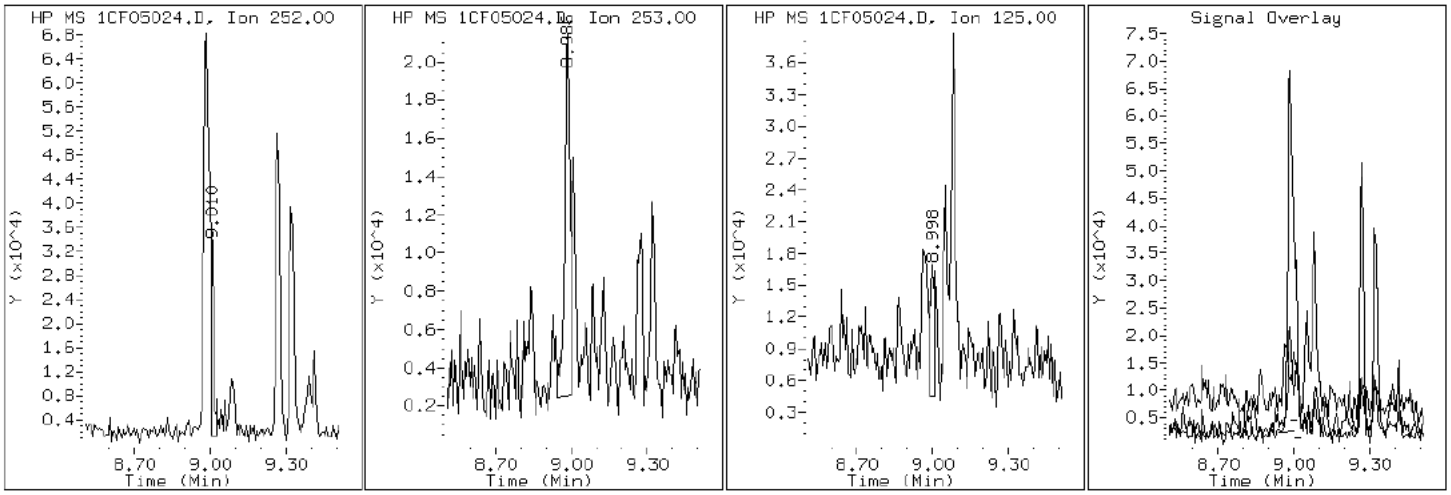
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

21 Benzo(k)fluoranthene



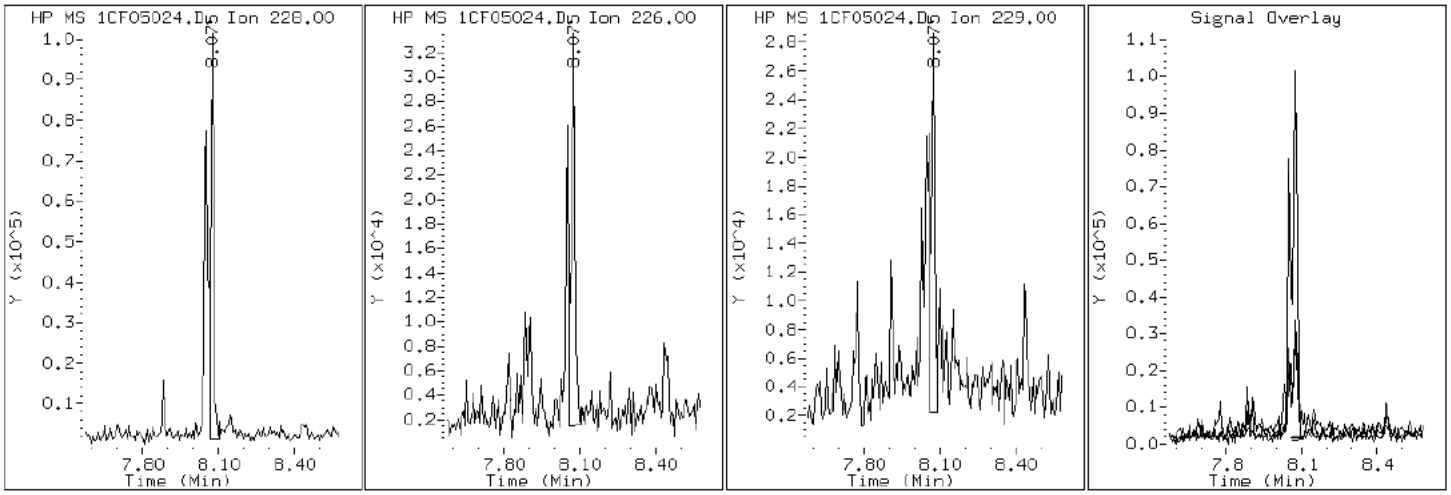
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

19 Chrysene



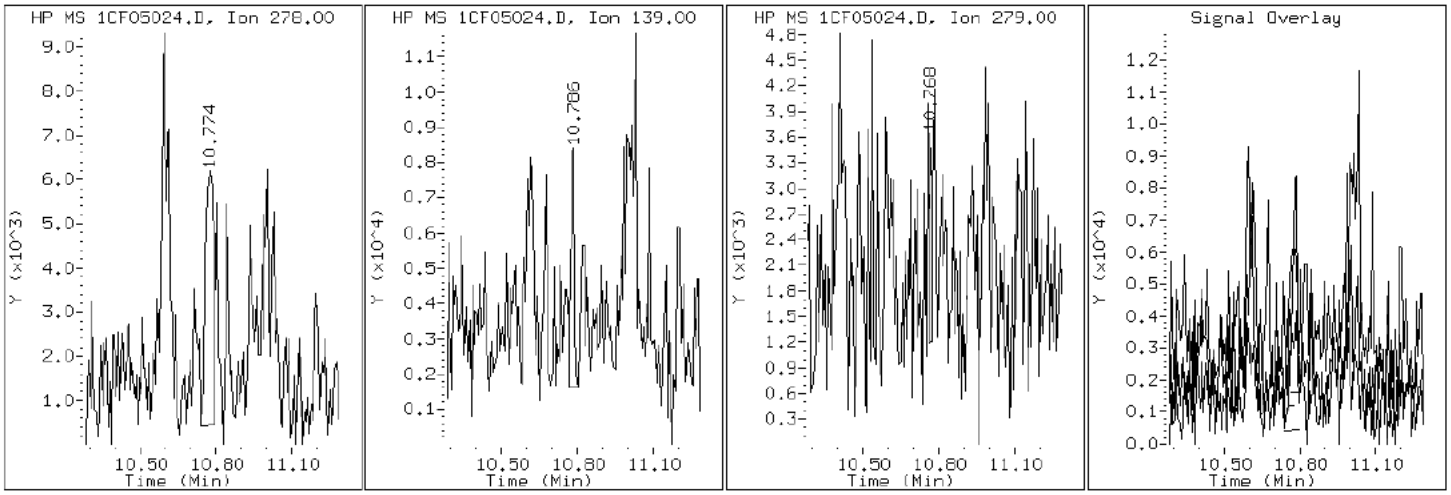
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

25 Dibenzo(a,h)anthracene



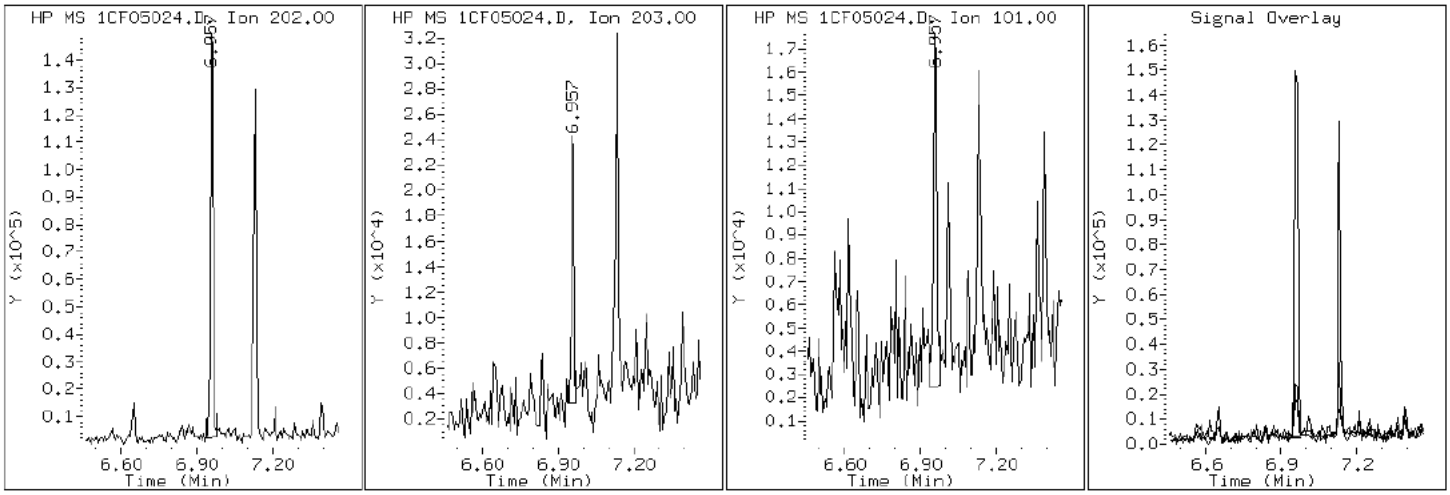
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

15 Fluoranthene



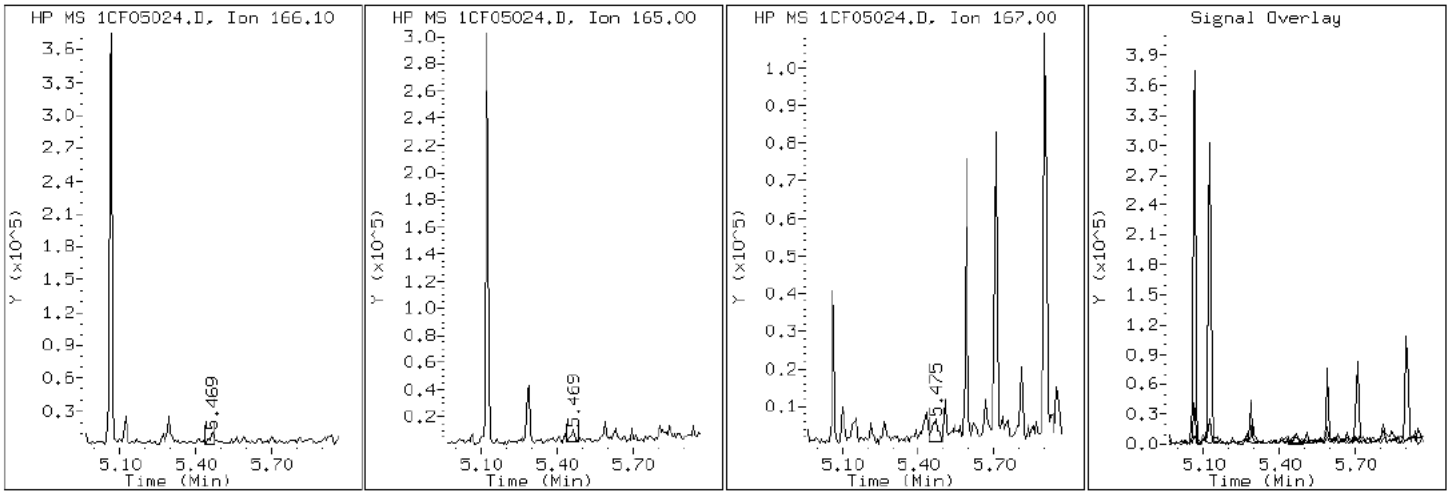
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

9 Fluorene



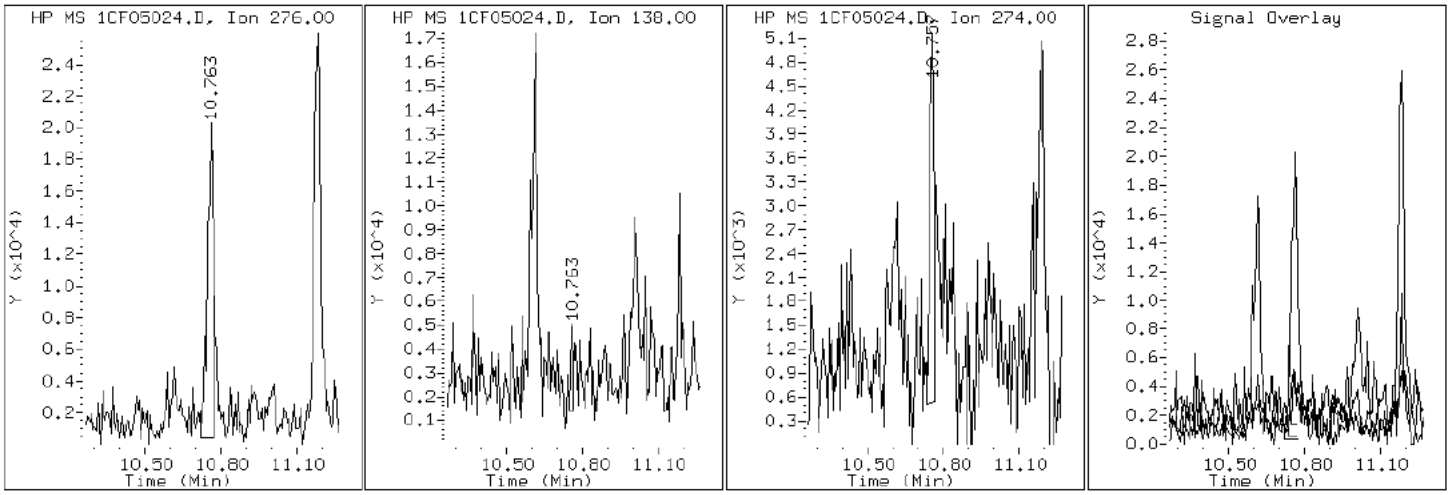
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

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



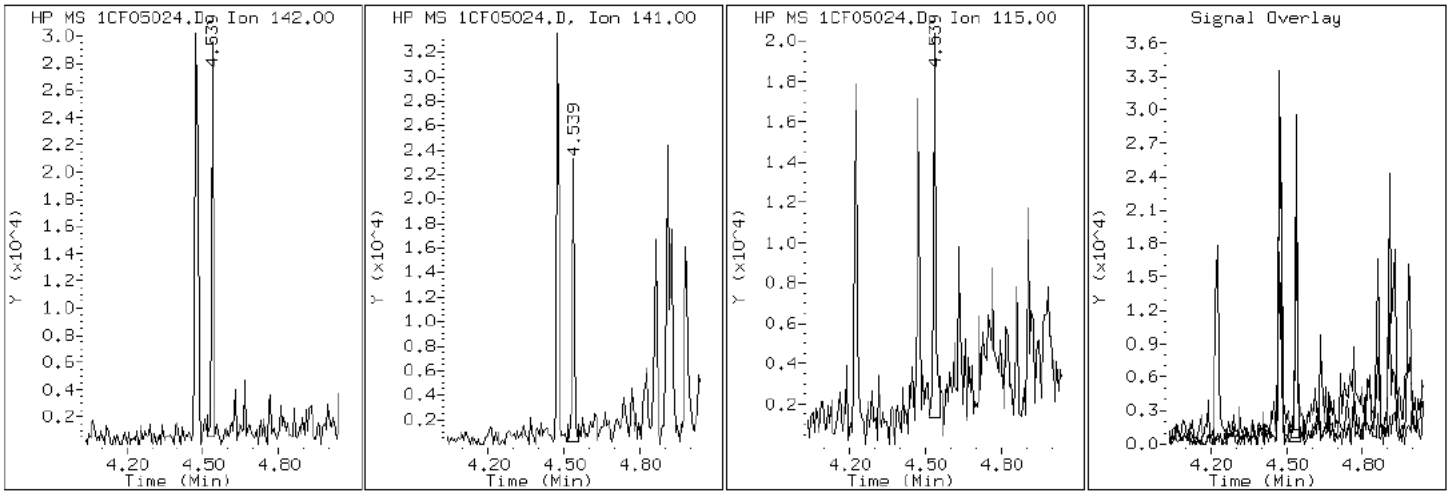
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

4 1-Methylnaphthalene



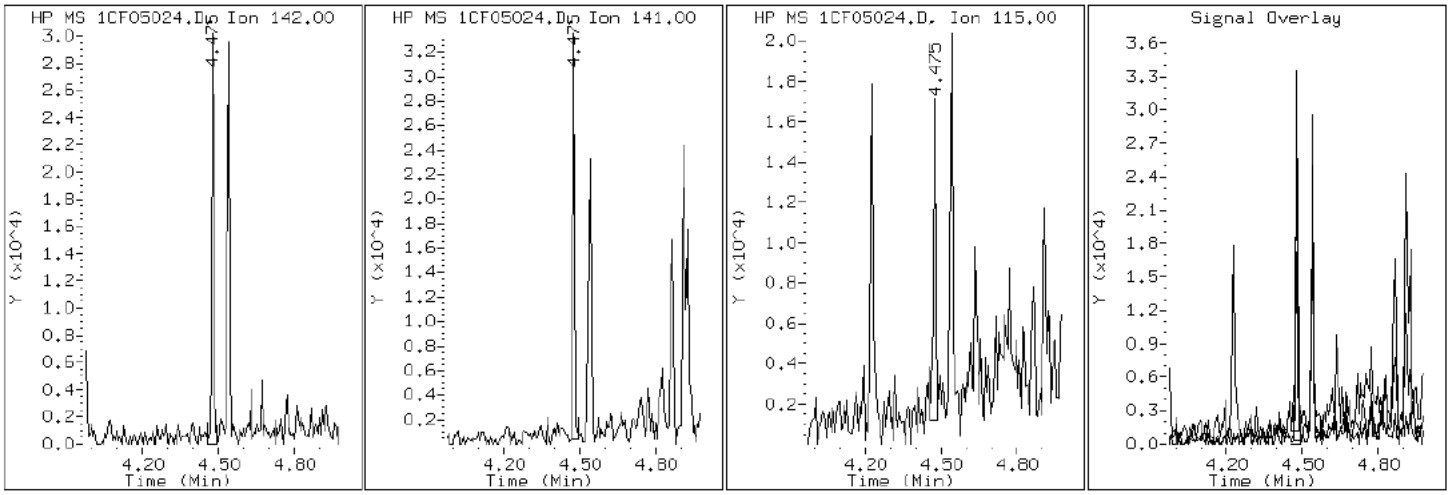
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

3 2-Methylnaphthalene



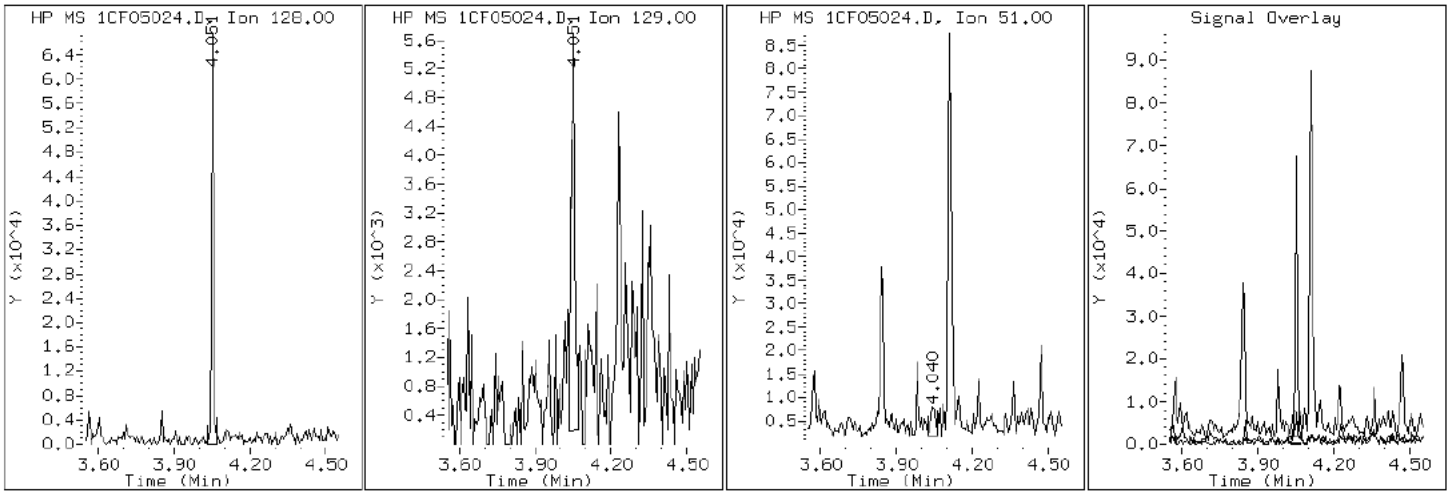
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

2 Naphthalene



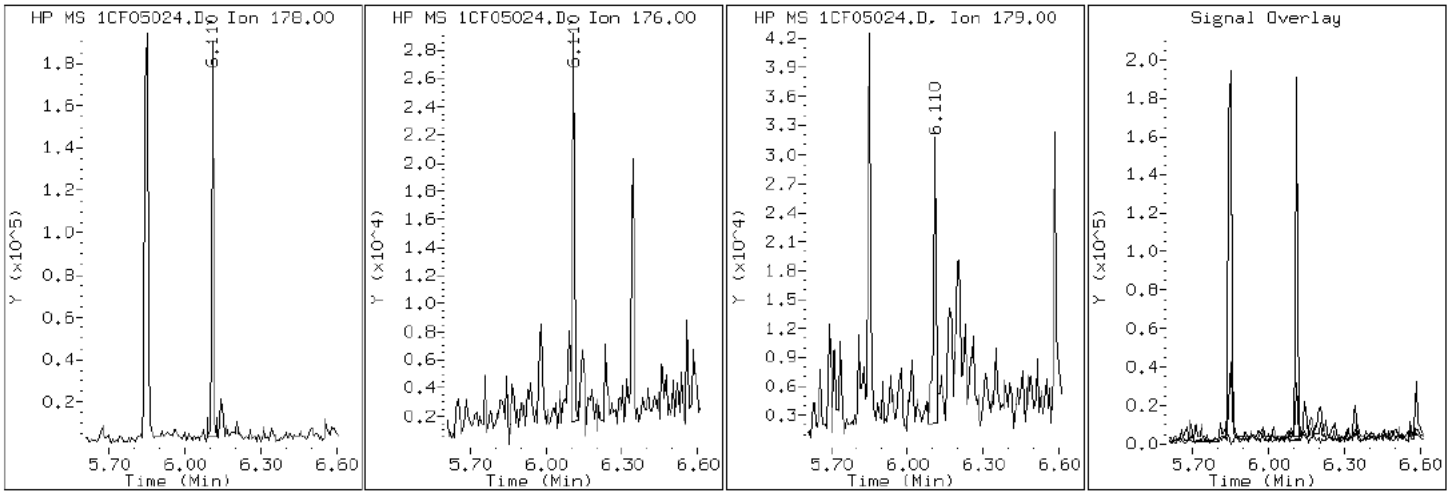
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

11 Phenanthrene



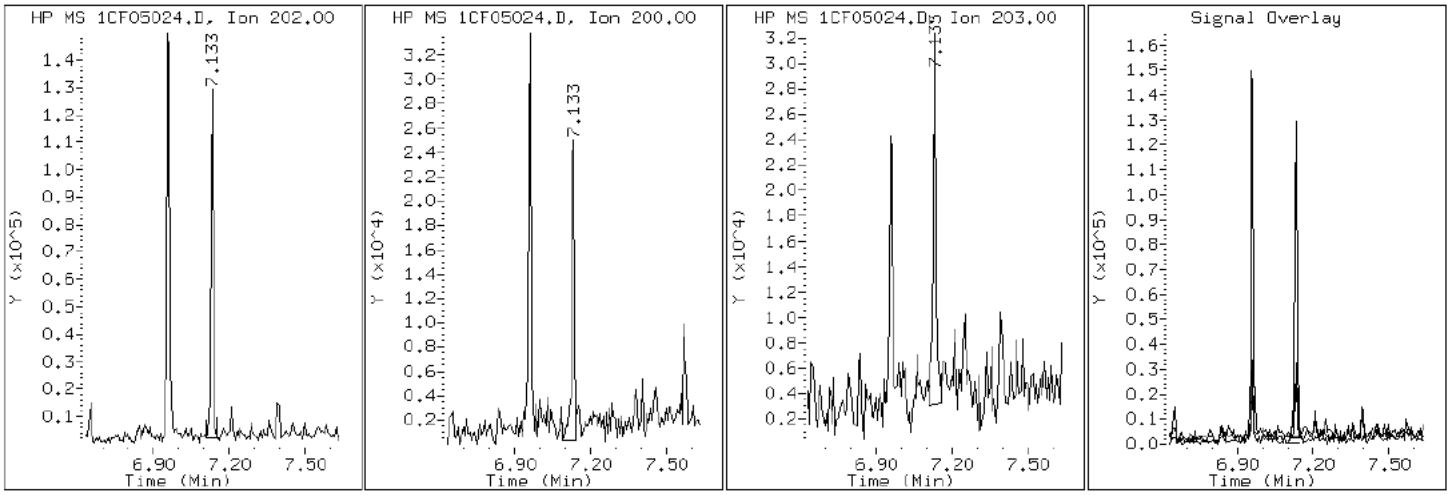
Data File: 1CF05024.D

Date: 05-JUN-2013 18:54

Client ID: FM0028B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-90686-a-31-b Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF05024.D
Inj. Date and Time: 05-JUN-2013 18:54
Instrument ID: BSMC5973.i
Client ID: FM0028B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/06/2013

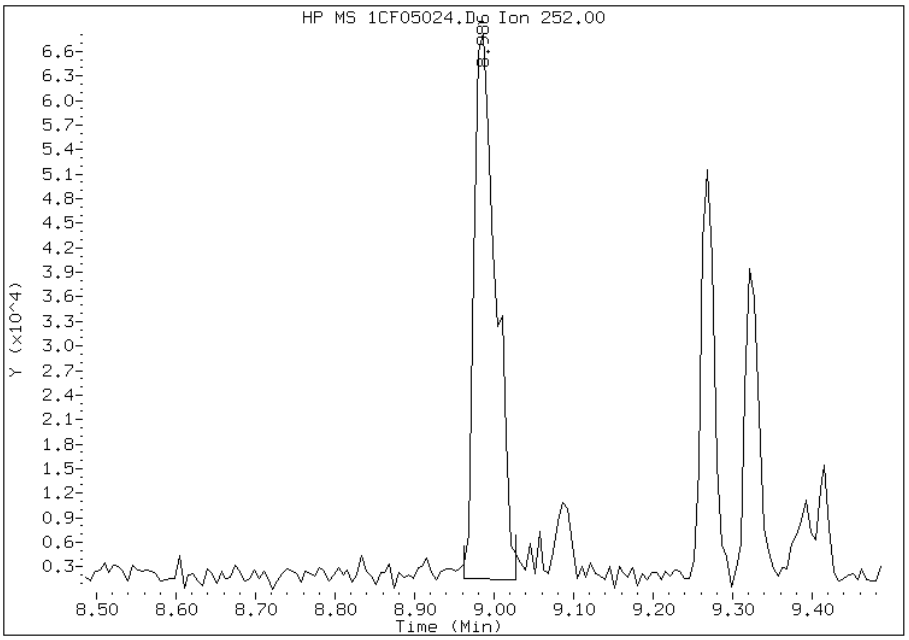
Processing Integration Results

RT: 8.99

Response: 126977

Amount: 2

Conc: 139



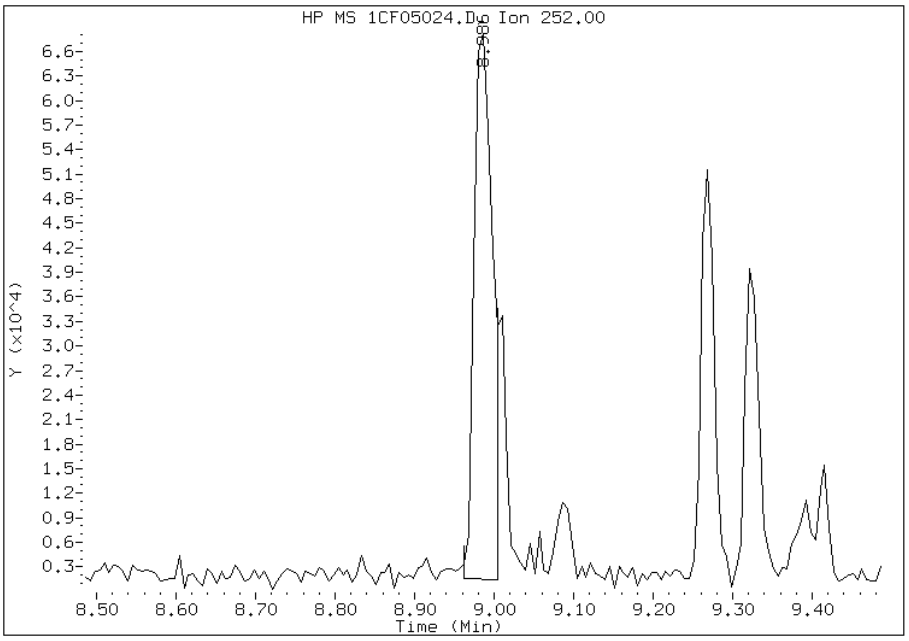
Manual Integration Results

RT: 8.99

Response: 106853

Amount: 1

Conc: 117



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 11:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF05024.D
Inj. Date and Time: 05-JUN-2013 18:54
Instrument ID: BSMC5973.i
Client ID: FM0028B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/06/2013

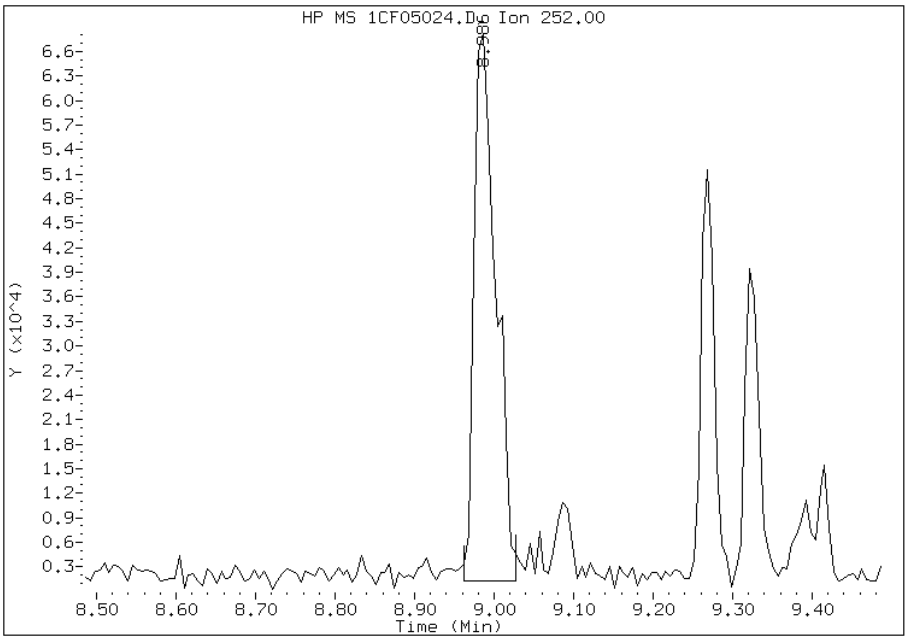
Processing Integration Results

RT: 8.99

Response: 127892

Amount: 1

Conc: 126



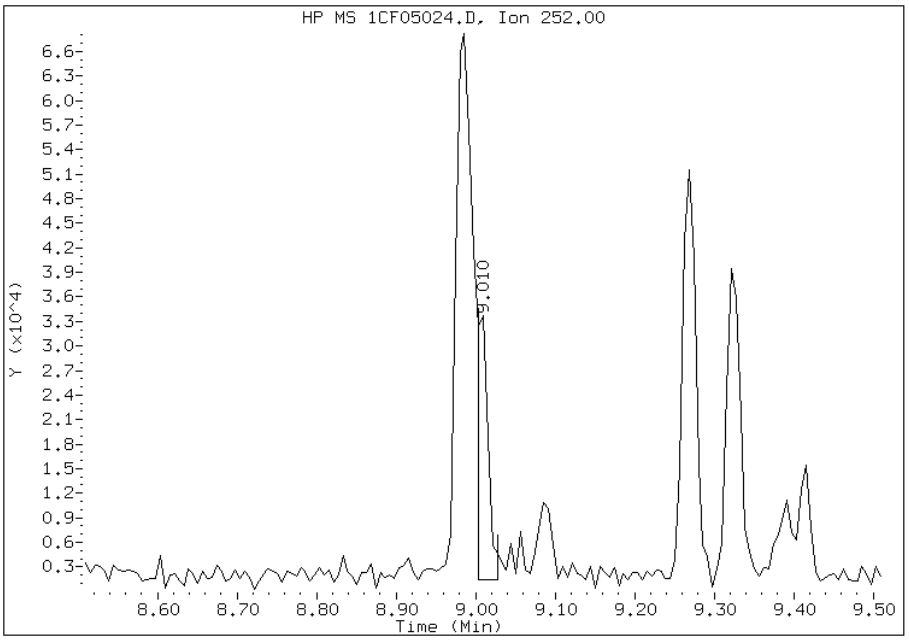
Manual Integration Results

RT: 9.01

Response: 31100

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 11:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF05024.D
Inj. Date and Time: 05-JUN-2013 18:54
Instrument ID: BSMC5973.i
Client ID: FM0028B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

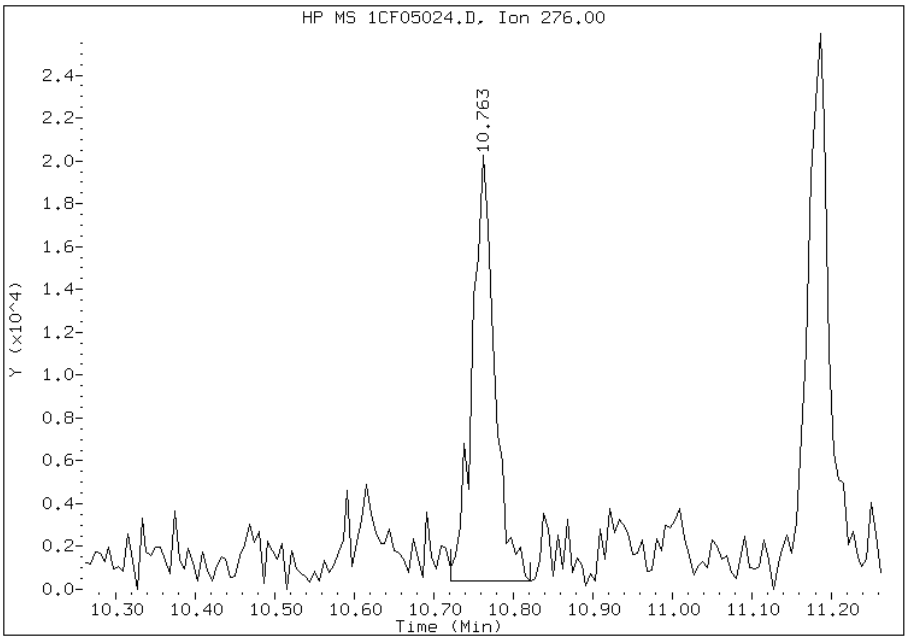
Processing Integration Results

RT: 10.76

Response: 38995

Amount: 1

Conc: 54



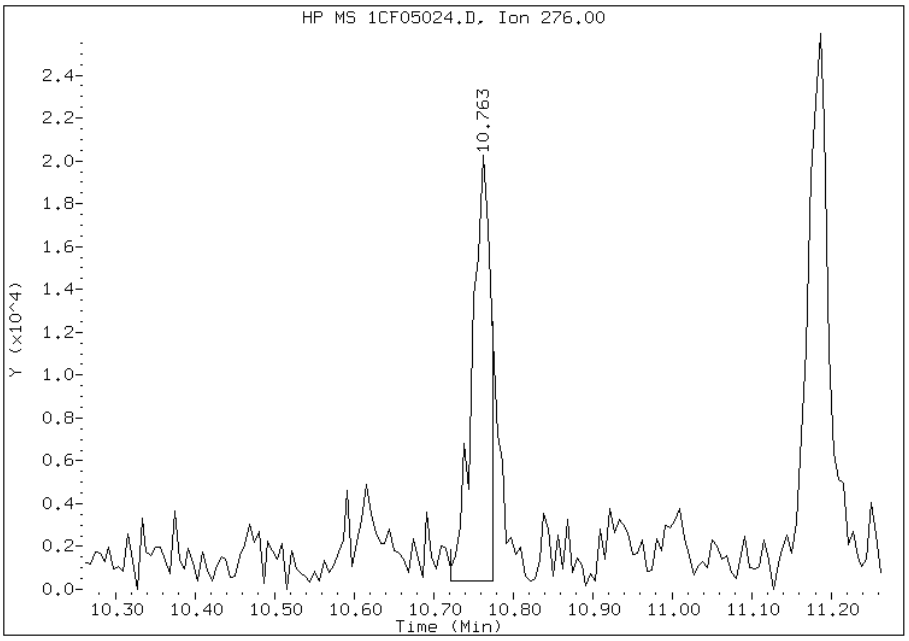
Manual Integration Results

RT: 10.76

Response: 32201

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 11:38
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-2 Analy Batch No.: 137704

SDG No.: 68090686-2

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.: 680-90686-2 Analy Batch No.: 137704

SDG No.: 68090686-2

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.: 680-90686-2 Analy B

SDG No.: 68090686-2

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

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibra

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					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	10788 1475133	43167 2829693	277572	502511	1290268	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	7334 970702	26053 1846051	161984	338697	861867	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	8739 973704	22793 1753070	155163	325468	812801	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	10091 1744024	43693 3262336	272410	595358	1503680	0.200 30.0	1 50
Acenaphthene	ANT	Ave	5968 1069111	26483 2023281	195498	367076	930965	0.200 30.0	1 50
Fluorene	ANT	Ave	7955 1415229	33899 2683311	219224	473626	1196881	0.200 30.0	1 50
Phenanthrene	PHN	Ave	22296 2310027	62422 4422781	404697	781016	2021508	0.200 30.0	1 50
Anthracene	PHN	Ave	12816 2351205	64974 4441751	373497	787403	2033868	0.200 30.0	1 50
Fluoranthene	PHN	Ave	16551 2594572	63229 4926903	406556	855481	2280567	0.200 30.0	1 50
Pyrene	CRY	Ave	20607 2821005	64768 5350270	445351	946073	2585241	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	26214 2759615	70230 5197458	417004	902407	2496189	0.200 30.0	1 50
Chrysene	CRY	Ave	17274 2753228	81010 5304178	503367	1006797	2553612	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	17929 2780406	62459 5119876	393956	813573	2511123	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	19122 2862522	72150 5598875	486517	1011311	2593145	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Lin2	10479 2630366	55523 5093564	404398	844912	2373859	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	None	11215 2670728	54750 5226444	389350	828947	2270654	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	14021 2393229	53230 4518350	357696	767380	2135605	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	16095 2483401	58451 4818870	406852	813279	2336946	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	7999 1331814	35524 2489982	218457	431889	1155503	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

137704

N

2979

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22014.D
Lab Smp Id: IC-1531396
Inj Date : 22-MAY-2013 16:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2349852	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1606435	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	3155669	40.0000	
$	14 o-Terphenyl	230	6.362	6.362	(1.040)	7999	0.20000	0.1627
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3786414	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3940046	40.0000	
	2 Naphthalene	128	4.068	4.068	(1.003)	10788	0.20000	-0.0958(aQ)
	3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	7334	0.20000	0.1000
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	8739	0.20000	0.3297
	5 Acenaphthylene	152	5.057	5.057	(0.983)	10091	0.20000	0.2511
	7 Acenaphthene	154	5.168	5.168	(1.005)	5968	0.20000	0.4480(Q)
	9 Fluorene	166	5.492	5.492	(1.067)	7955	0.20000	0.7701
	11 Phenanthrene	178	6.127	6.127	(1.002)	22296	0.20000	0.2391
	12 Anthracene	178	6.168	6.168	(1.009)	12816	0.20000	0.6465
	13 Carbazole	167	6.268	6.268	(1.025)	8868	0.20000	0.1236
	15 Fluoranthene	202	6.980	6.980	(1.141)	16551	0.20000	0.7298
	16 Pyrene	202	7.151	7.151	(0.886)	20607	0.20000	0.2015
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	26214	0.20000	0.4841
	19 Chrysene	228	8.098	8.098	(1.003)	17274	0.20000	0.1643
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	17929	0.20000	0.1852
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	19122	0.20000	0.1768
	22 Benzo(a)pyrene	252	9.350	9.350	(0.993)	10479	0.20000	0.9543
	24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	11215	0.20000	1.2876(M)
	25 Dibenzo(a,h)anthracene	278	10.821	10.821	(1.149)	14021	0.20000	0.1667(M)
	26 Benzo(g,h,i)perylene	276	11.221	11.221	(1.191)	16095	0.20000	0.1758(M)

QC Flag Legend

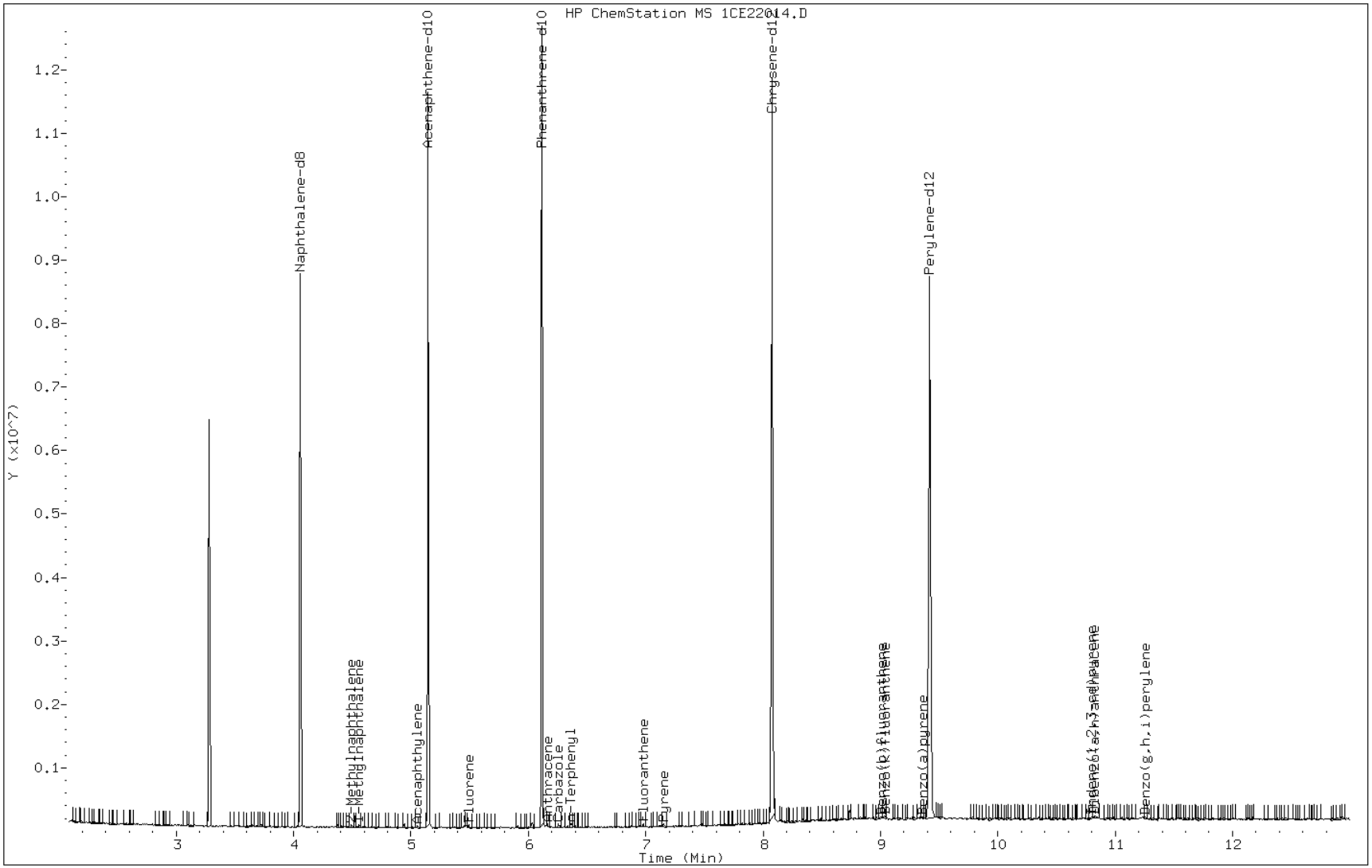
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22014.D

Date: 22-MAY-2013 16:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

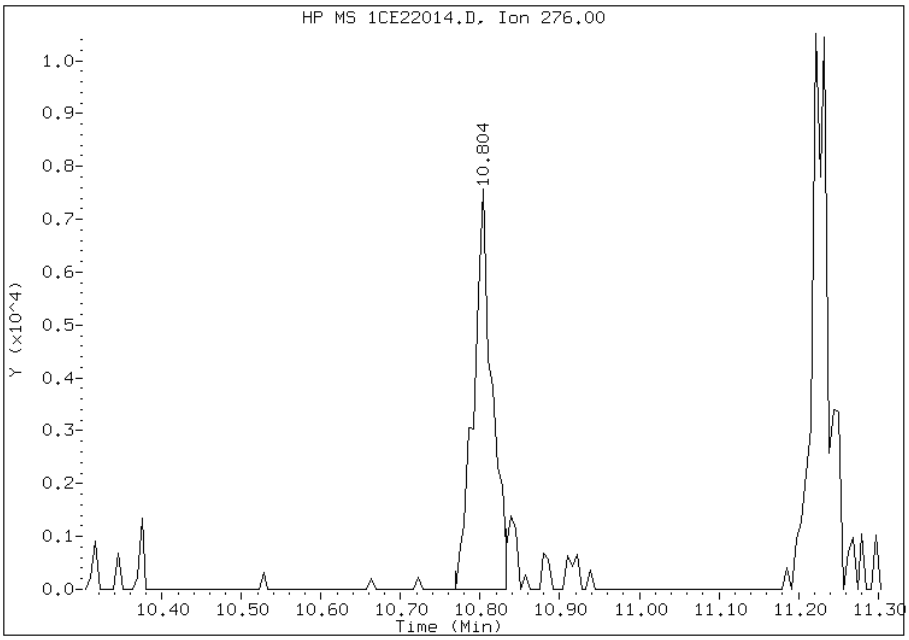
Processing Integration Results

RT: 10.80

Response: 12188

Amount: 1

Conc: 1



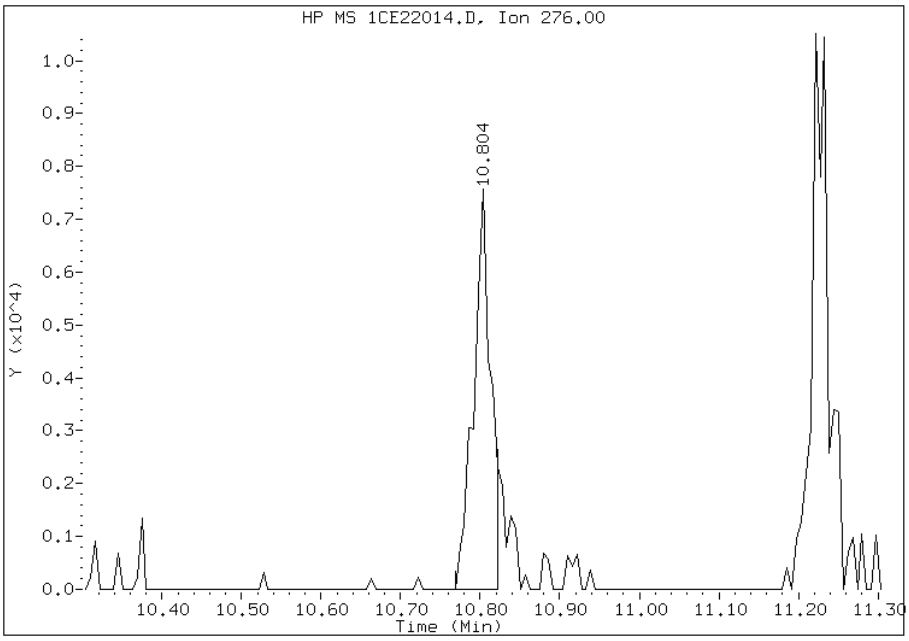
Manual Integration Results

RT: 10.80

Response: 11215

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

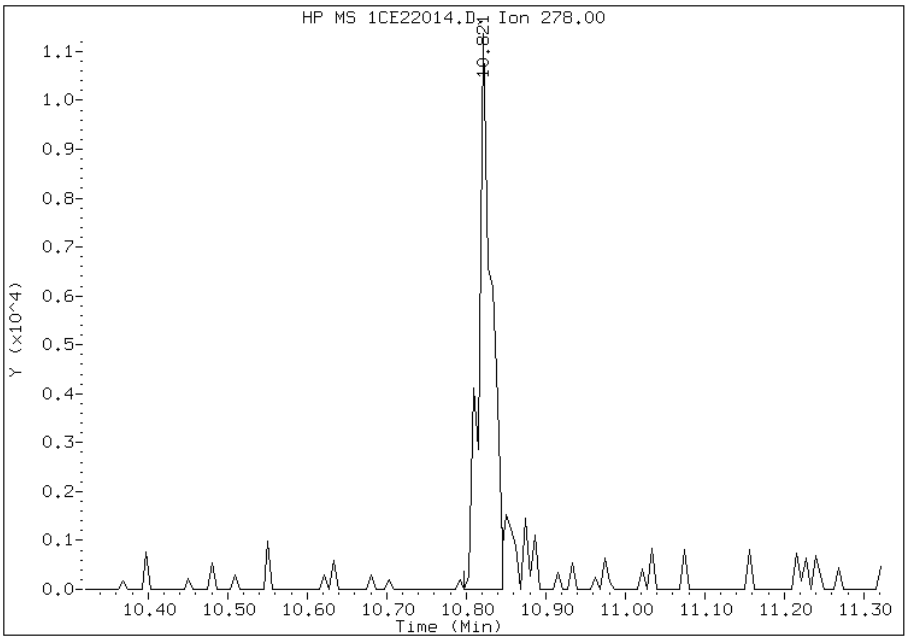
Processing Integration Results

RT: 10.82

Response: 12738

Amount: 0

Conc: 0



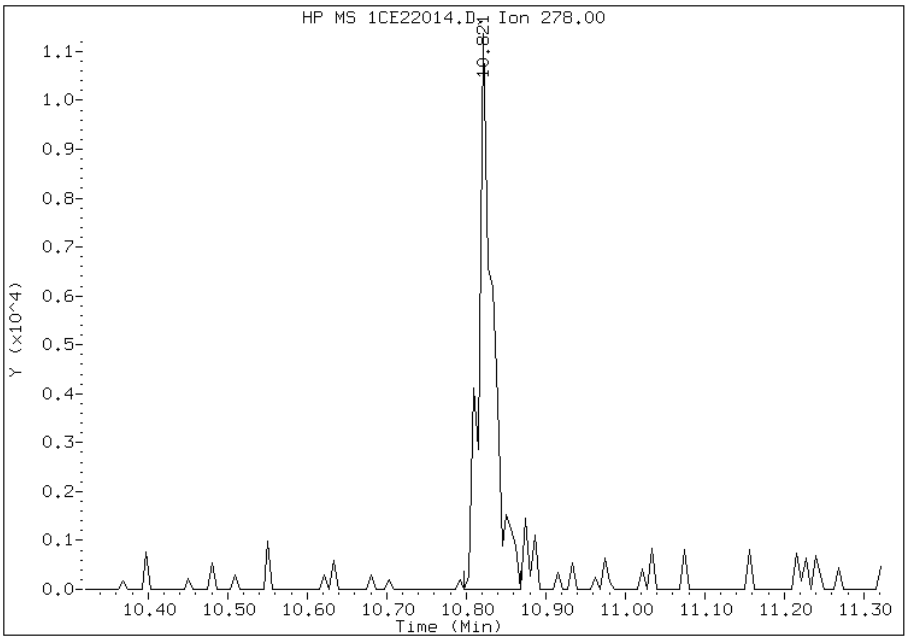
Manual Integration Results

RT: 10.82

Response: 14021

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CE22014.D
Inj. Date and Time: 22-MAY-2013 16:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

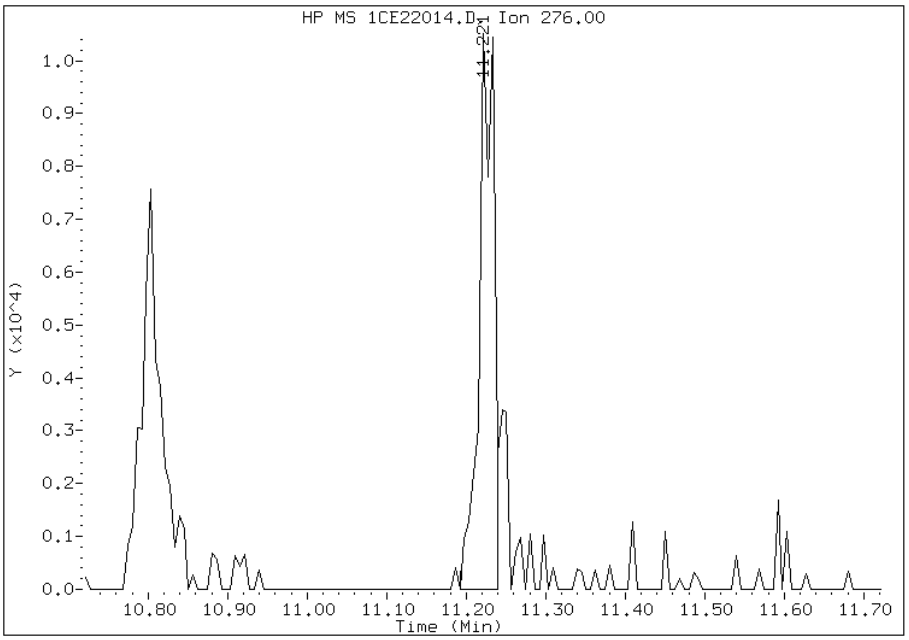
Processing Integration Results

RT: 11.22

Response: 13709

Amount: 0

Conc: 0



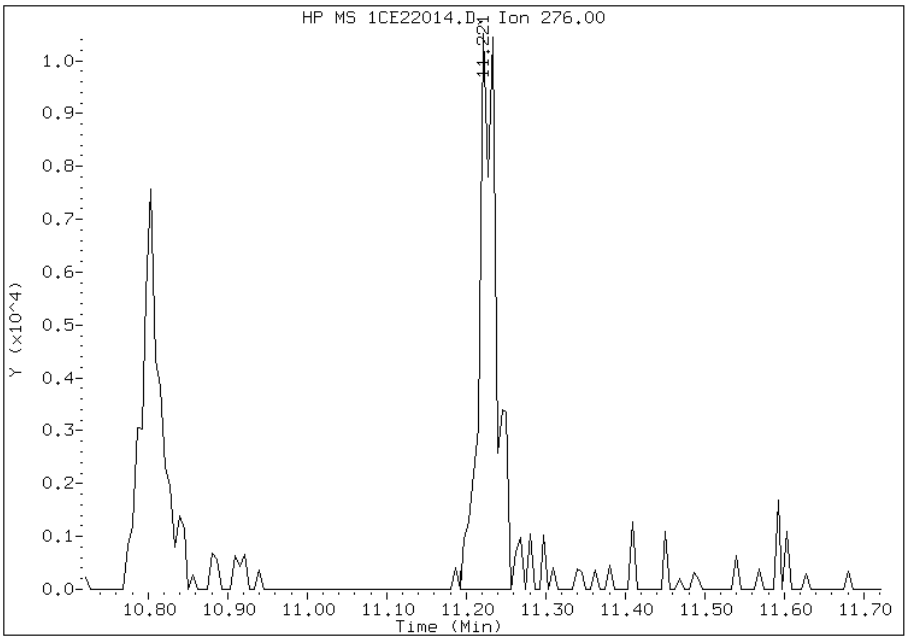
Manual Integration Results

RT: 11.22

Response: 16095

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 09:49
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22015.D
Lab Smp Id: IC-1531398
Inj Date : 22-MAY-2013 16:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:16 Cal File: 1CE22014.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	1832664	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1235302	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2326462	40.0000	
$	14 o-Terphenyl	230	6.363	6.363	(1.040)	35524	1.00000	0.9802
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	2810637	40.0000	
*	23 Perylene-d12	264	9.415	9.415	(1.000)	2976078	40.0000	
	2 Naphthalene	128	4.069	4.069	(1.003)	43167	1.00000	0.7579(Q)
	3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	26053	1.00000	0.8408
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	22793	1.00000	0.9083(Q)
	5 Acenaphthylene	152	5.057	5.057	(0.983)	43693	1.00000	0.9876
	7 Acenaphthene	154	5.163	5.163	(1.003)	26483	1.00000	1.1282(Q)
	9 Fluorene	166	5.492	5.492	(1.067)	33899	1.00000	1.4179
	11 Phenanthrene	178	6.127	6.127	(1.002)	62422	1.00000	0.9081
	12 Anthracene	178	6.163	6.163	(1.008)	64974	1.00000	1.4346
	13 Carbazole	167	6.268	6.268	(1.025)	47959	1.00000	0.9067
	15 Fluoranthene	202	6.980	6.980	(1.141)	63229	1.00000	1.3820
	16 Pyrene	202	7.151	7.151	(0.886)	64768	1.00000	0.8533
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	70230	1.00000	1.1468
	19 Chrysene	228	8.098	8.098	(1.003)	81010	1.00000	1.0381
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.957)	62459	1.00000	0.8541
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.960)	72150	1.00000	0.8834
	22 Benzo(a)pyrene	252	9.351	9.351	(0.993)	55523	1.00000	1.5314
	24 Indeno(1,2,3-cd)pyrene	276	10.798	10.798	(1.147)	54750	1.00000	1.8337(M)
	25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.150)	53230	1.00000	0.8379(M)
	26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	58451	1.00000	0.8454

QC Flag Legend

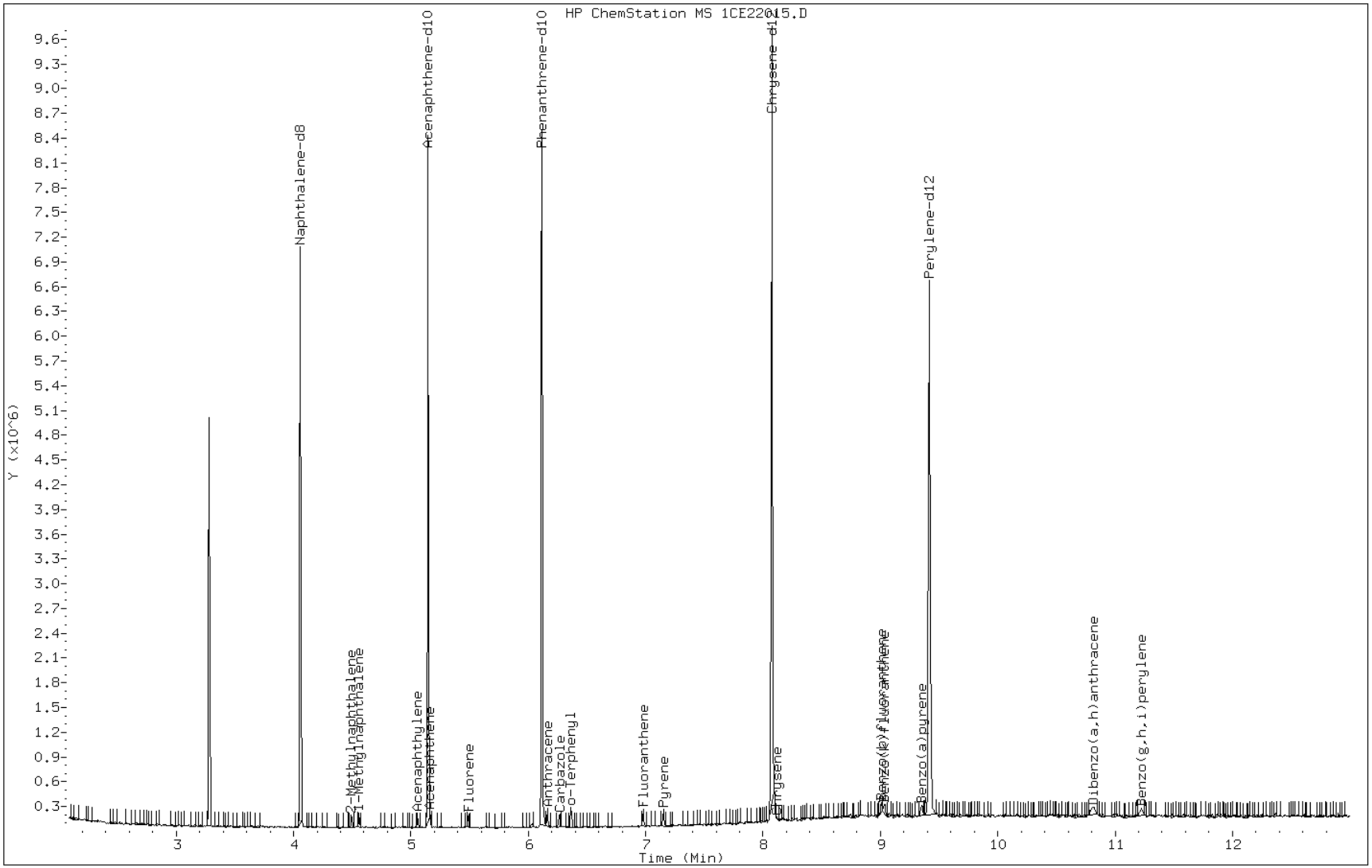
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22015.D

Date: 22-MAY-2013 16:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1CE22015.D
Inj. Date and Time: 22-MAY-2013 16:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

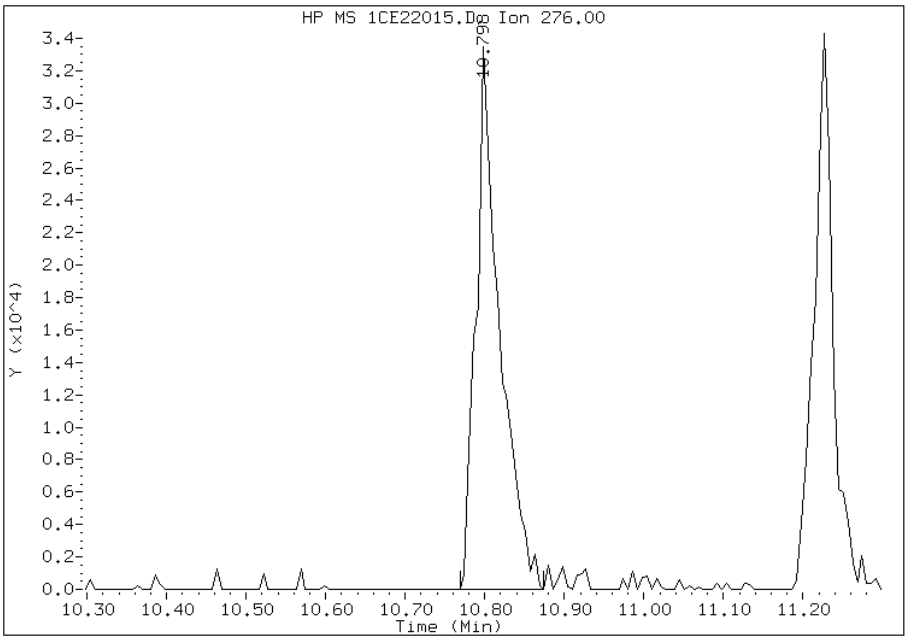
Processing Integration Results

RT: 10.80

Response: 69013

Amount: 1

Conc: 1



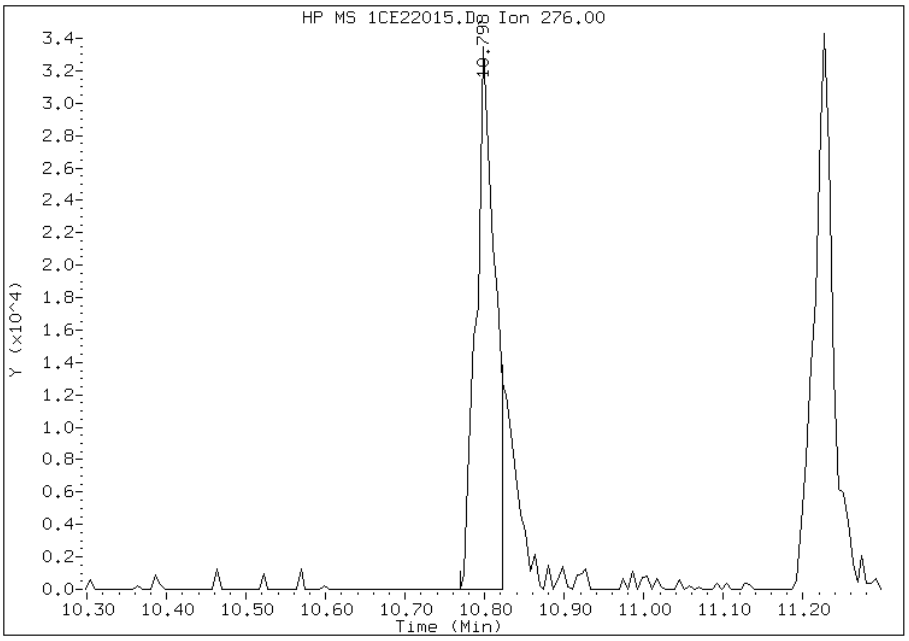
Manual Integration Results

RT: 10.80

Response: 54750

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CE22015.D
Inj. Date and Time: 22-MAY-2013 16:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

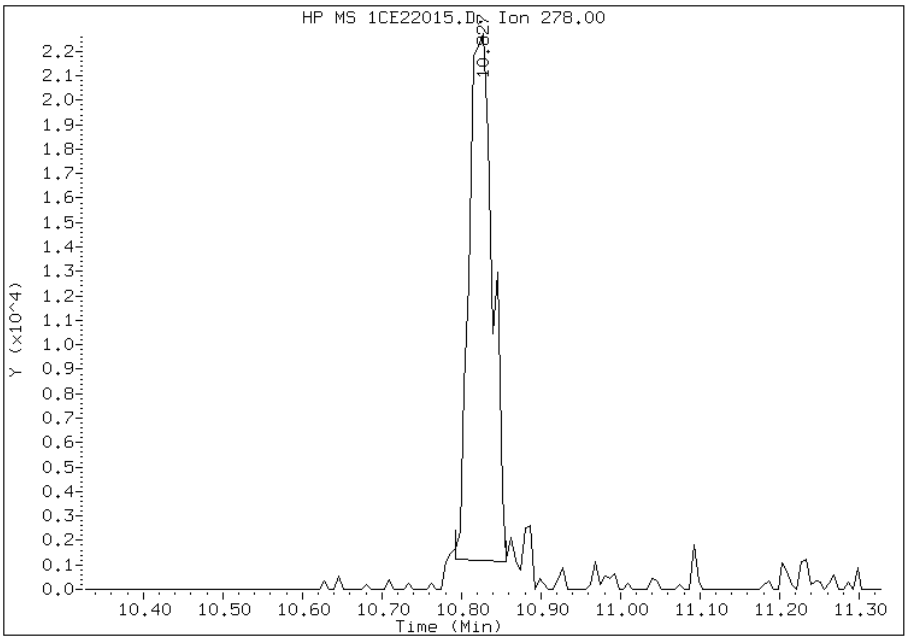
Processing Integration Results

RT: 10.83

Response: 43916

Amount: 1

Conc: 1



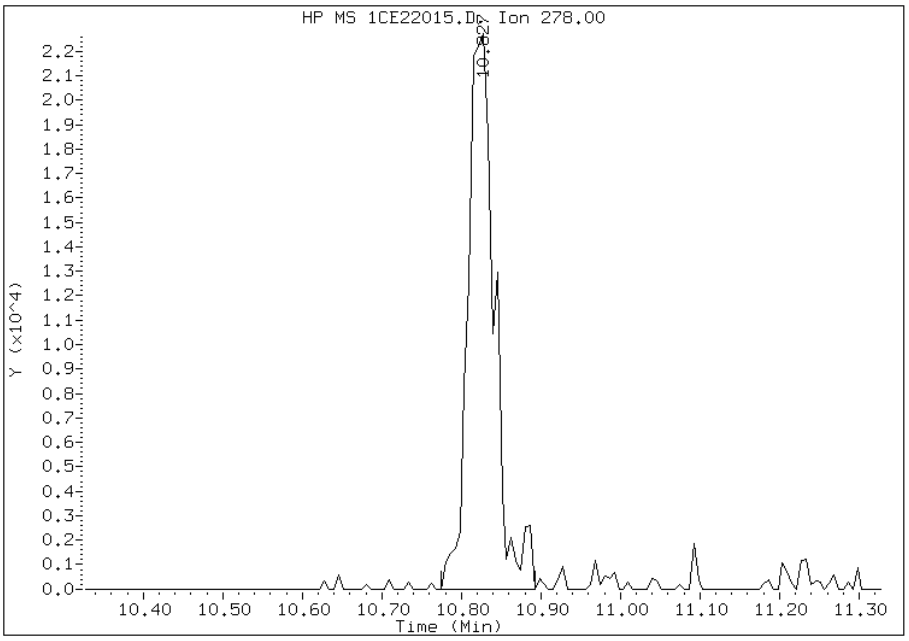
Manual Integration Results

RT: 10.83

Response: 53230

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:05
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22016.D
Lab Smp Id: IC-1531399
Inj Date : 22-MAY-2013 16:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:34 Cal File: 1CE22015.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2081666	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1422317	40.0000	
*	10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2675415	40.0000	
$	14 o-Terphenyl	230	6.363	6.363	(1.040)	218457	5.00000	5.2417
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3306699	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3472629	40.0000	
	2 Naphthalene	128	4.069	4.069	(1.003)	277572	5.00000	5.6353
	3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	161984	5.00000	5.0474
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	155163	5.00000	5.0081
	5 Acenaphthylene	152	5.057	5.057	(0.983)	272410	5.00000	4.9174
	7 Acenaphthene	154	5.163	5.163	(1.003)	195498	5.00000	5.5806
	9 Fluorene	166	5.492	5.492	(1.067)	219224	5.00000	5.0675
	11 Phenanthrene	178	6.127	6.127	(1.002)	404697	5.00000	5.1199
	12 Anthracene	178	6.163	6.163	(1.008)	373497	5.00000	5.1223
	13 Carbazole	167	6.268	6.268	(1.025)	324904	5.00000	5.3417
	15 Fluoranthene	202	6.980	6.980	(1.141)	406556	5.00000	5.0929
	16 Pyrene	202	7.151	7.151	(0.886)	445351	5.00000	4.9876
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	417004	5.00000	4.8476
	19 Chrysene	228	8.098	8.098	(1.003)	503367	5.00000	5.4831
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	393956	5.00000	4.6173
	21 Benzo(k)fluoranthene	252	9.033	9.033	(0.959)	486517	5.00000	5.1054
	22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	404398	5.00000	5.0594
	24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	389350	5.00000	5.1255(M)
	25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	357696	5.00000	4.8259
	26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	406852	5.00000	5.0431

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22016.D

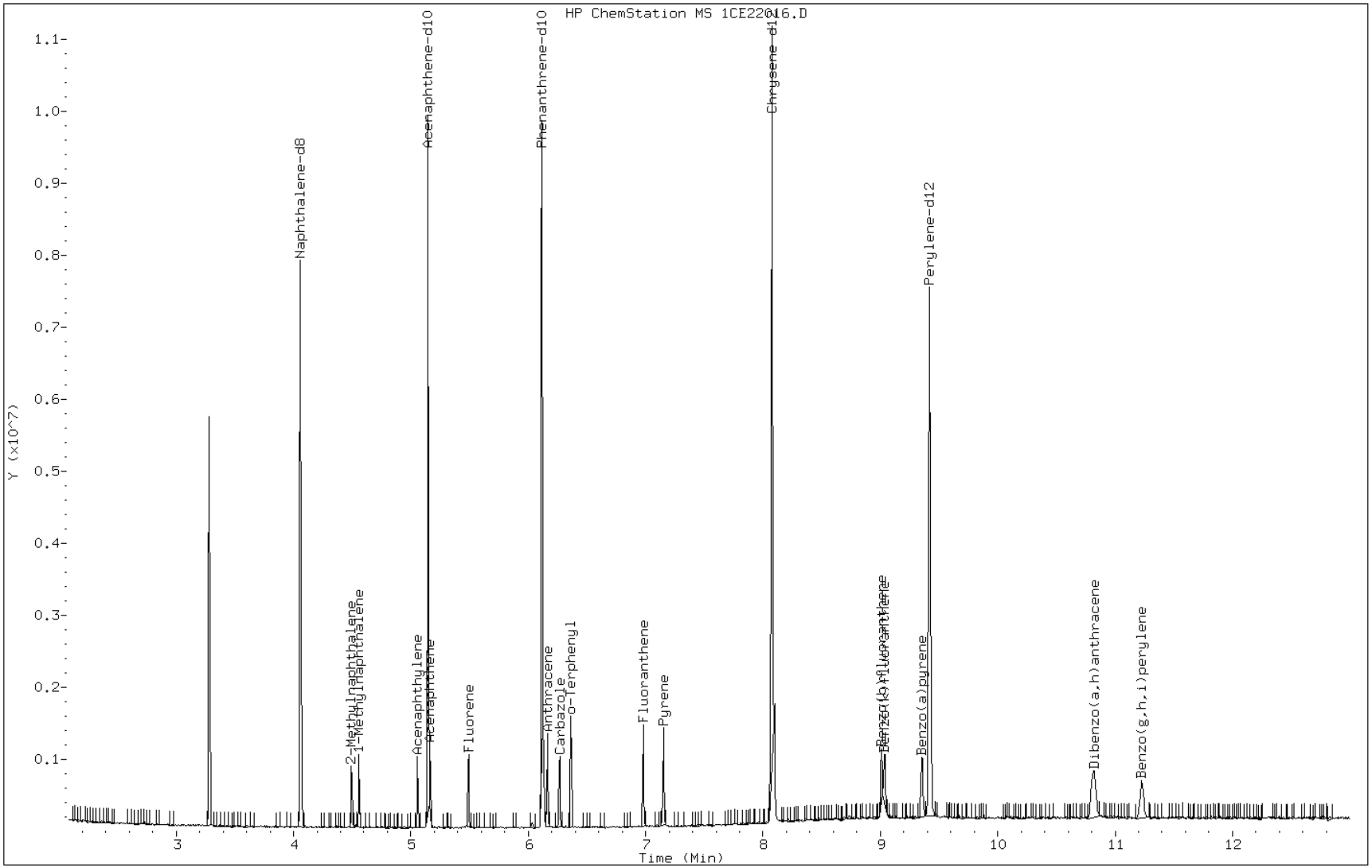
Date: 22-MAY-2013 16:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC



Manual Integration Report

Data File: 1CE22016.D
Inj. Date and Time: 22-MAY-2013 16:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

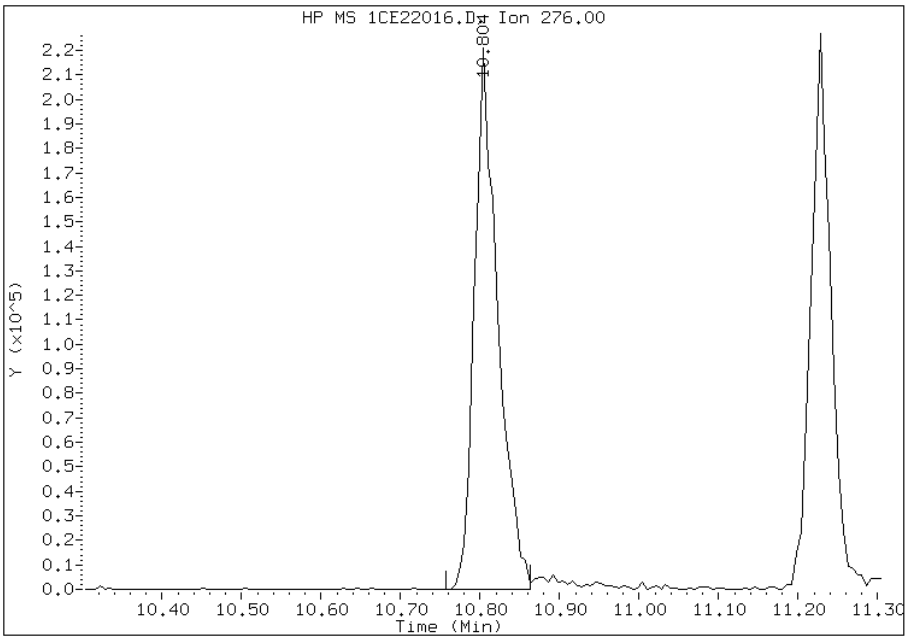
Processing Integration Results

RT: 10.80

Response: 449154

Amount: 5

Conc: 5



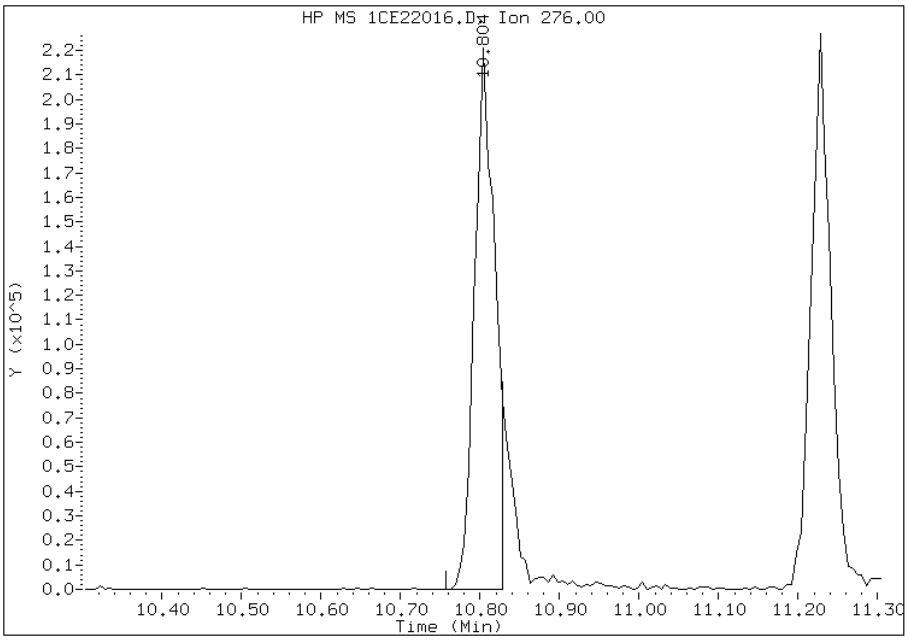
Manual Integration Results

RT: 10.80

Response: 389350

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:06
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22017.D
Lab Smp Id: IC-1531400
Inj Date : 22-MAY-2013 17:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 16:52 Cal File: 1CE22016.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2145469	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1509779	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2867550	40.0000	
$	14 o-Terphenyl	230	6.362	6.362	(1.040)	431889	10.0000	9.6686
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3562042	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3464497	40.0000	
	2 Naphthalene	128	4.068	4.068	(1.003)	502511	10.0000	10.0185
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	338697	10.0000	10.2456
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	325468	10.0000	10.0505
	5 Acenaphthylene	152	5.057	5.057	(0.983)	595358	10.0000	9.9610
	7 Acenaphthene	154	5.163	5.163	(1.003)	367076	10.0000	9.6366
	9 Fluorene	166	5.492	5.492	(1.067)	473626	10.0000	9.6643
	11 Phenanthrene	178	6.127	6.127	(1.002)	781016	10.0000	9.2188
	12 Anthracene	178	6.162	6.162	(1.008)	787403	10.0000	9.5798
	13 Carbazole	167	6.268	6.268	(1.025)	687573	10.0000	10.5470
	15 Fluoranthene	202	6.980	6.980	(1.141)	855481	10.0000	9.4459
	16 Pyrene	202	7.151	7.151	(0.886)	946073	10.0000	9.8358
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	902407	10.0000	9.4824
	19 Chrysene	228	8.098	8.098	(1.003)	1006797	10.0000	10.1808
	20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	813573	10.0000	9.5578
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	1011311	10.0000	10.6374
	22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	844912	10.0000	9.6562
	24 Indeno(1,2,3-cd)pyrene	276	10.803	10.803	(1.147)	828947	10.0000	9.5913(M)
	25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	767380	10.0000	10.3775
	26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	813279	10.0000	10.1046

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22017.D

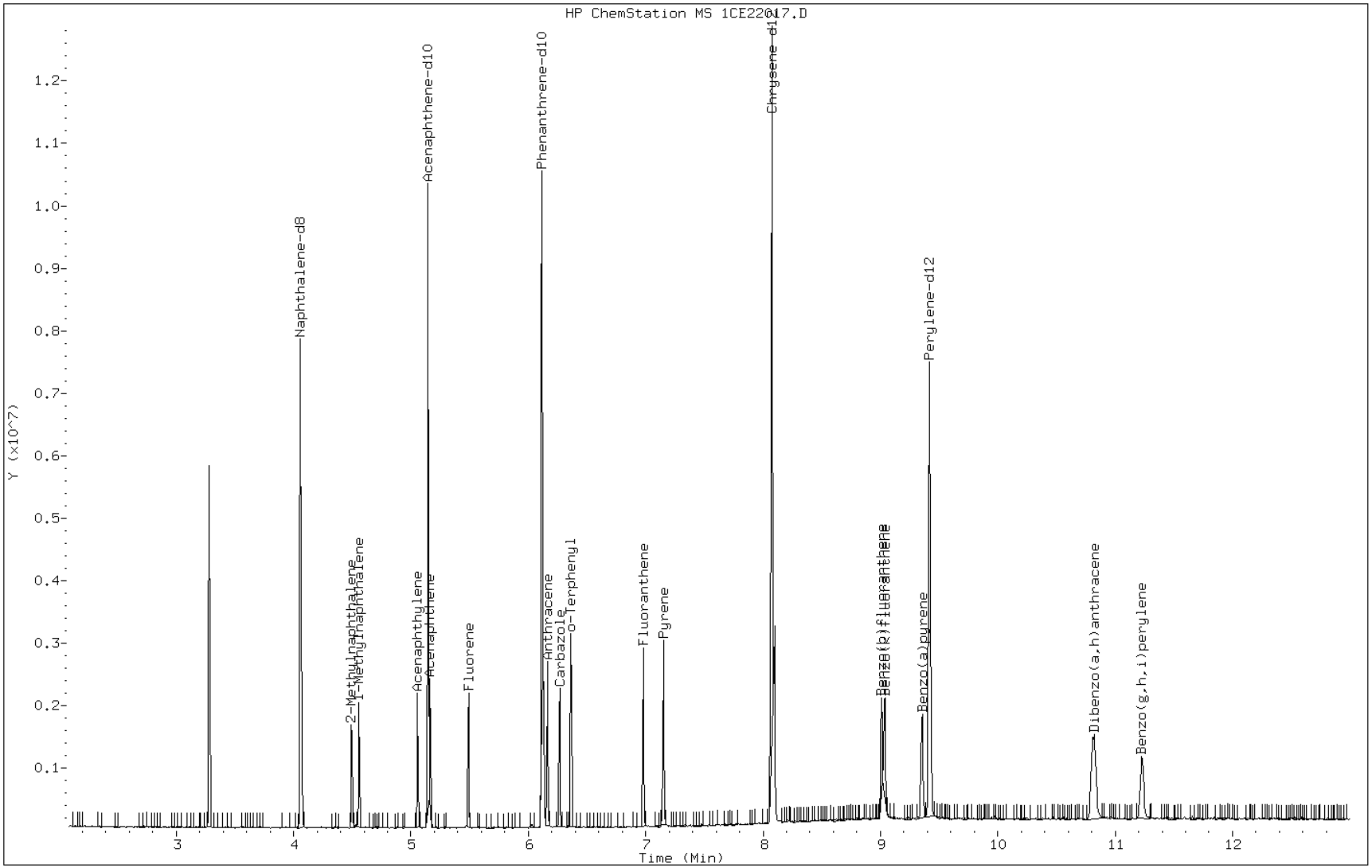
Date: 22-MAY-2013 17:10

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1CE22017.D
Inj. Date and Time: 22-MAY-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

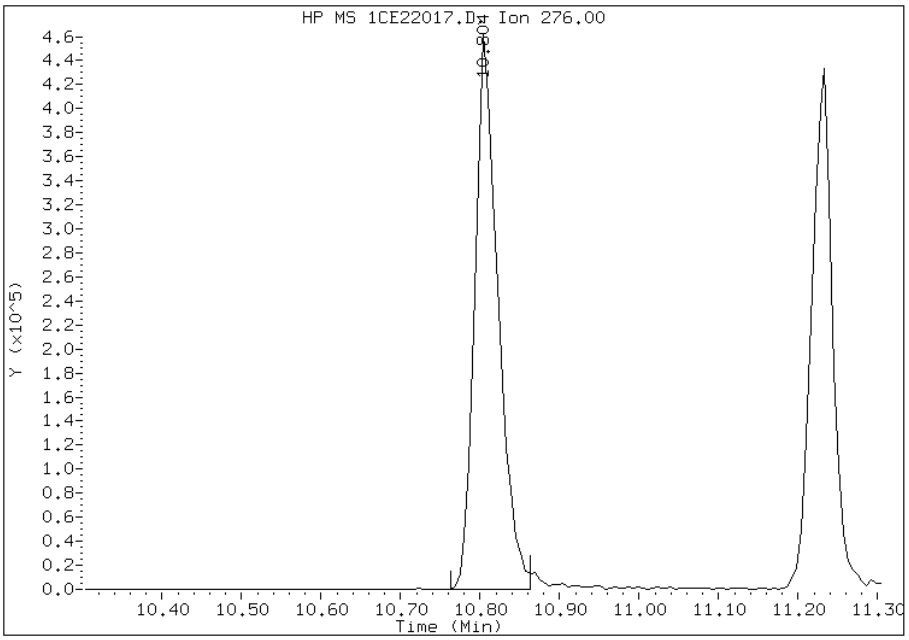
Processing Integration Results

RT: 10.80

Response: 934640

Amount: 10

Conc: 10



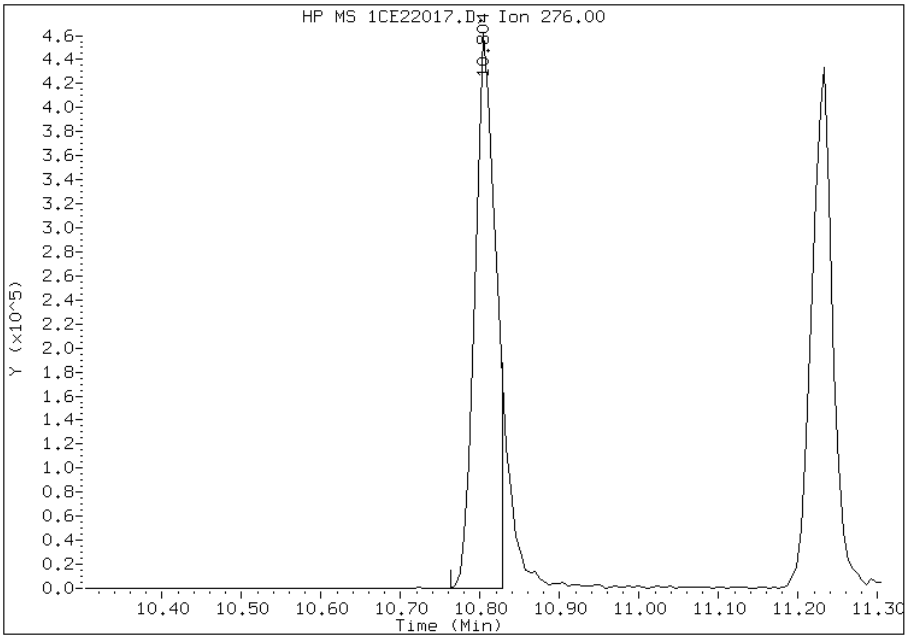
Manual Integration Results

RT: 10.80

Response: 828947

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22018.D
Lab Smp Id: ICIS-1531401
Inj Date : 22-MAY-2013 17:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:10 Cal File: 1CE22017.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						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

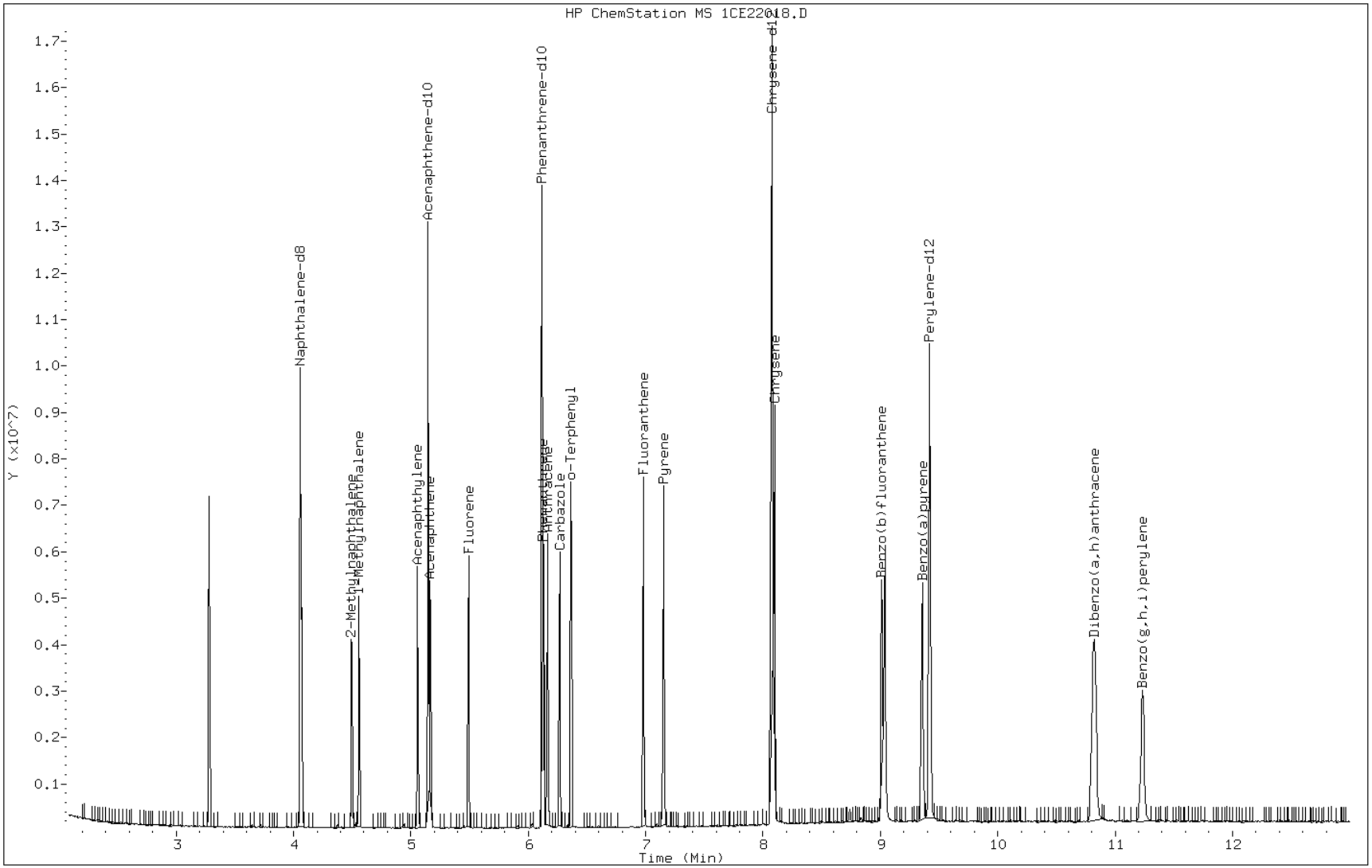
Date: 22-MAY-2013 17:29

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

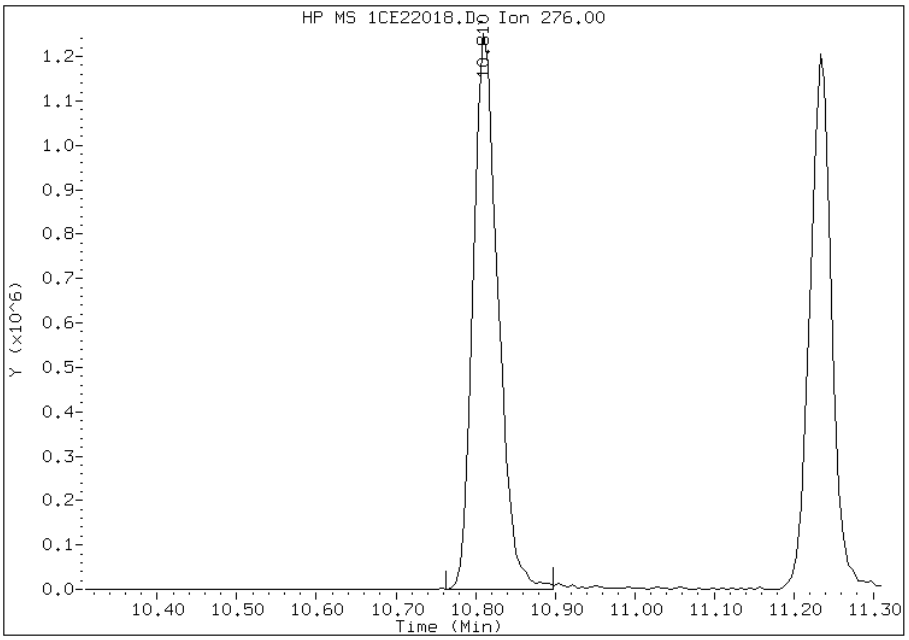
Processing Integration Results

RT: 10.81

Response: 2702405

Amount: 21

Conc: 21



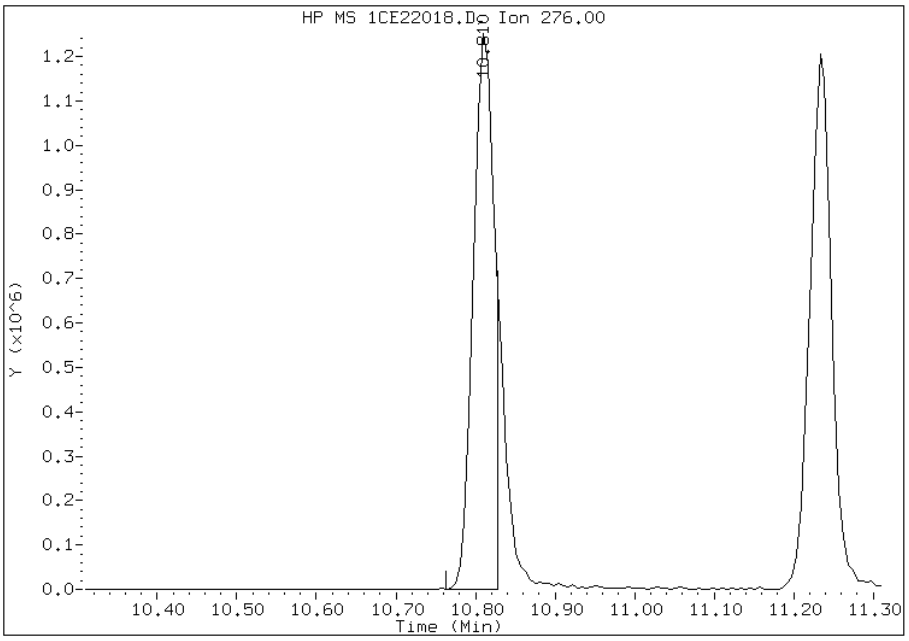
Manual Integration Results

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2068326	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1427326	40.0000	
*	10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2638178	40.0000	
$	14 o-Terphenyl	230	6.363	6.363	(1.040)	1331814	30.0000	32.4073
*	18 Chrysene-d12	240	8.074	8.074	(1.000)	3302140	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3377140	40.0000	
	2 Naphthalene	128	4.069	4.069	(1.003)	1475133	30.0000	29.5453
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	970702	30.0000	29.4444
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	973704	30.0000	30.2912
	5 Acenaphthylene	152	5.057	5.057	(0.983)	1744024	30.0000	29.8344
	7 Acenaphthene	154	5.163	5.163	(1.003)	1069111	30.0000	29.0526
	9 Fluorene	166	5.492	5.492	(1.067)	1415229	30.0000	29.1903
	11 Phenanthrene	178	6.133	6.133	(1.003)	2310027	30.0000	29.6374
	12 Anthracene	178	6.168	6.168	(1.009)	2351205	30.0000	29.9418
	13 Carbazole	167	6.268	6.268	(1.025)	2042937	30.0000	34.0622
	15 Fluoranthene	202	6.980	6.980	(1.141)	2594572	30.0000	29.8212
	16 Pyrene	202	7.151	7.151	(0.886)	2821005	30.0000	31.6369
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2759615	30.0000	30.3926
	19 Chrysene	228	8.098	8.098	(1.003)	2753228	30.0000	30.0322
	20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	2780406	30.0000	33.5091
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2862522	30.0000	30.8881
	22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2630366	30.0000	28.9560
	24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2670728	30.0000	28.9631(M)
	25 Dibenzo(a,h)anthracene	278	10.833	10.833	(1.150)	2393229	30.0000	33.2015
	26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2483401	30.0000	31.6533

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22019.D

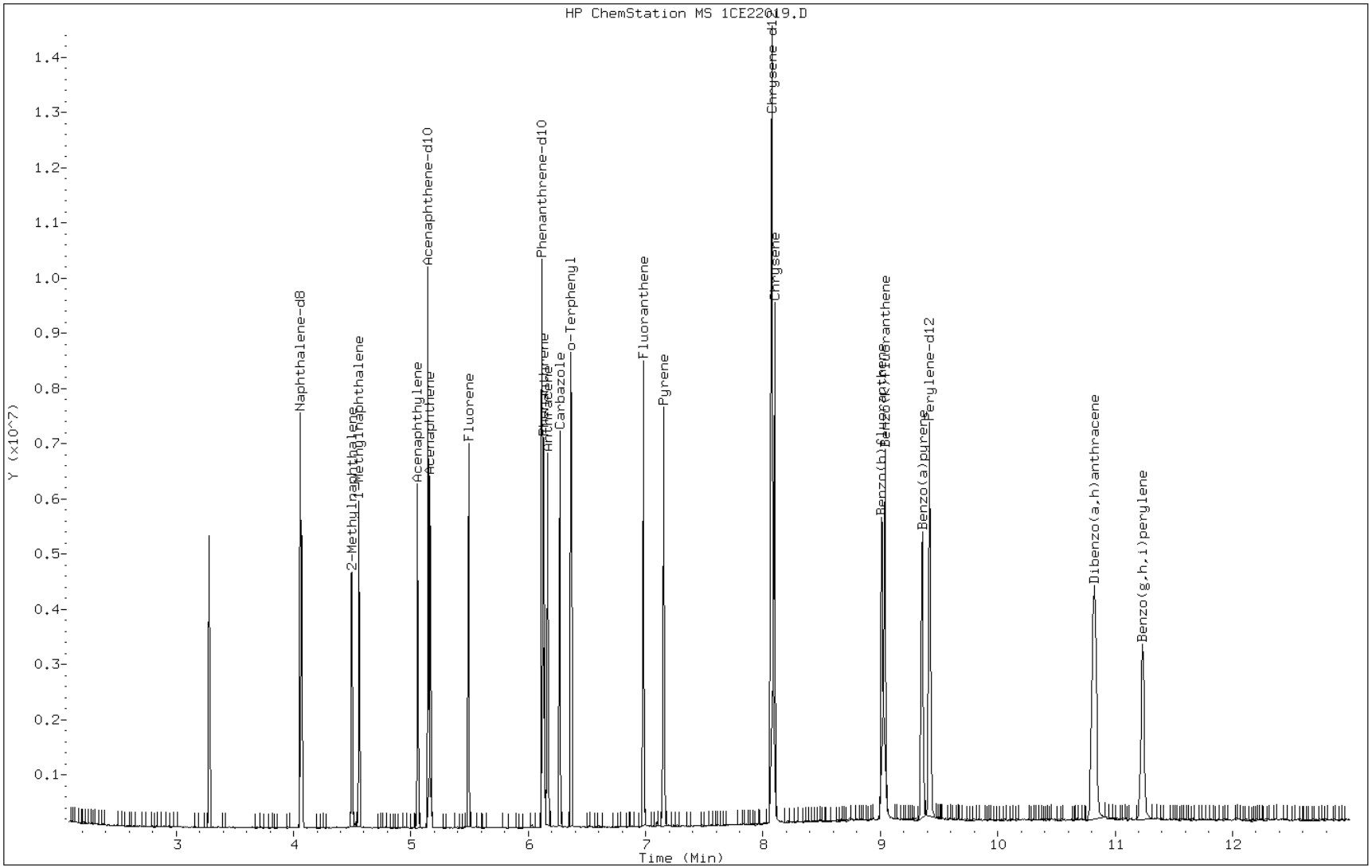
Date: 22-MAY-2013 17:47

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC



Manual Integration Report

Data File: 1CE22019.D
Inj. Date and Time: 22-MAY-2013 17:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

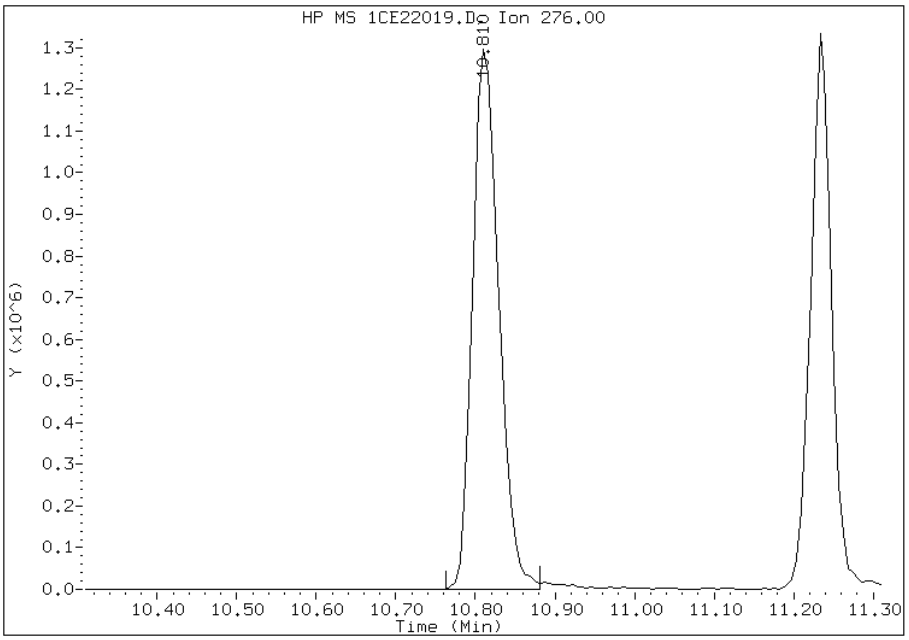
Processing Integration Results

RT: 10.81

Response: 2965644

Amount: 32

Conc: 32



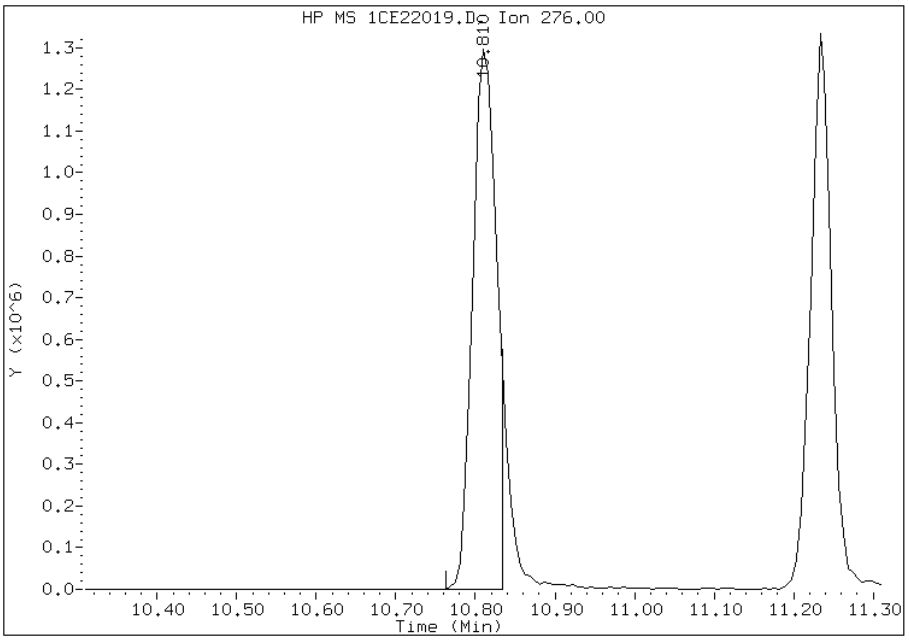
Manual Integration Results

RT: 10.81

Response: 2670728

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22020.D
Lab Smp Id: IC-1531403
Inj Date : 22-MAY-2013 18:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:47 Cal File: 1CE22019.D
Als bottle: 20 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	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

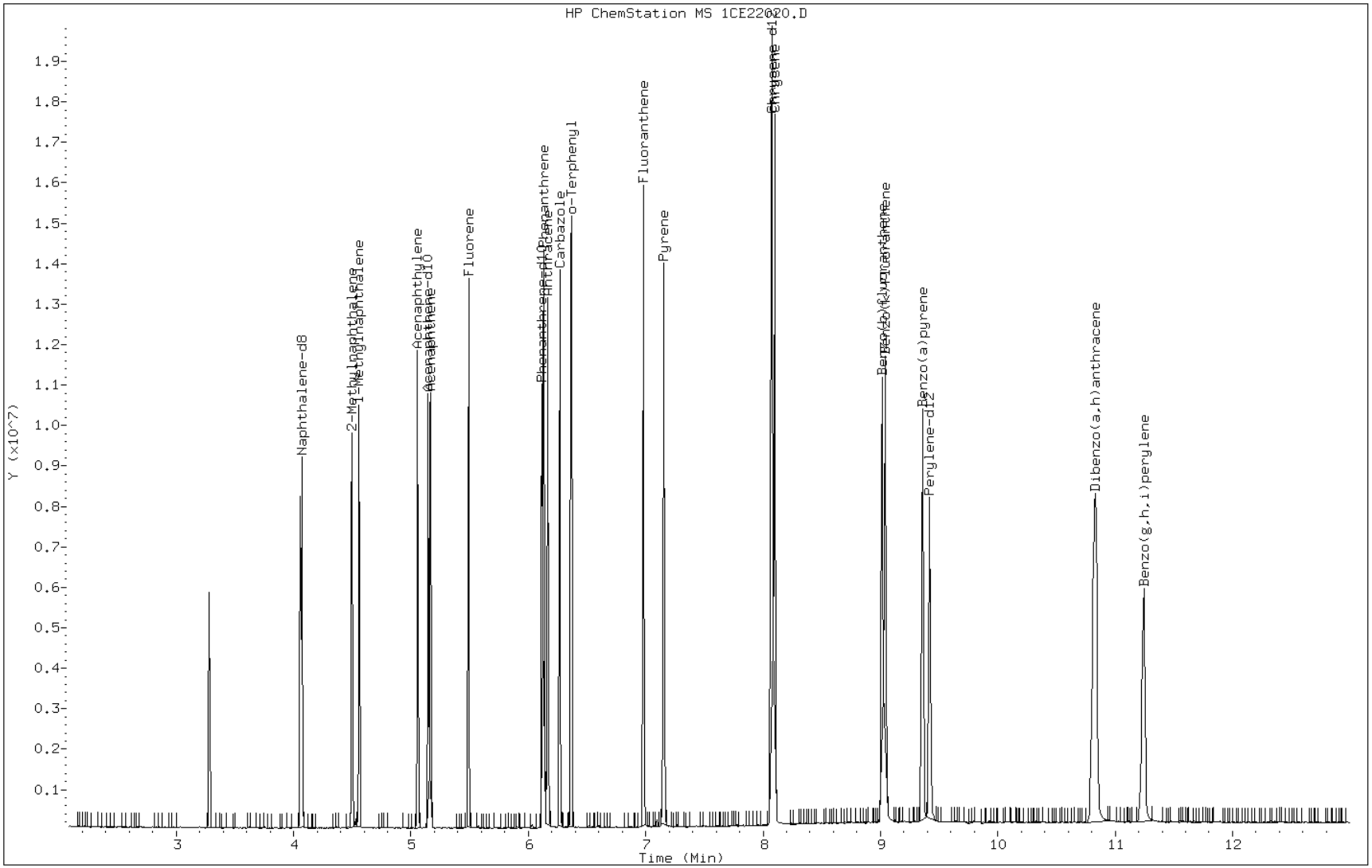
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

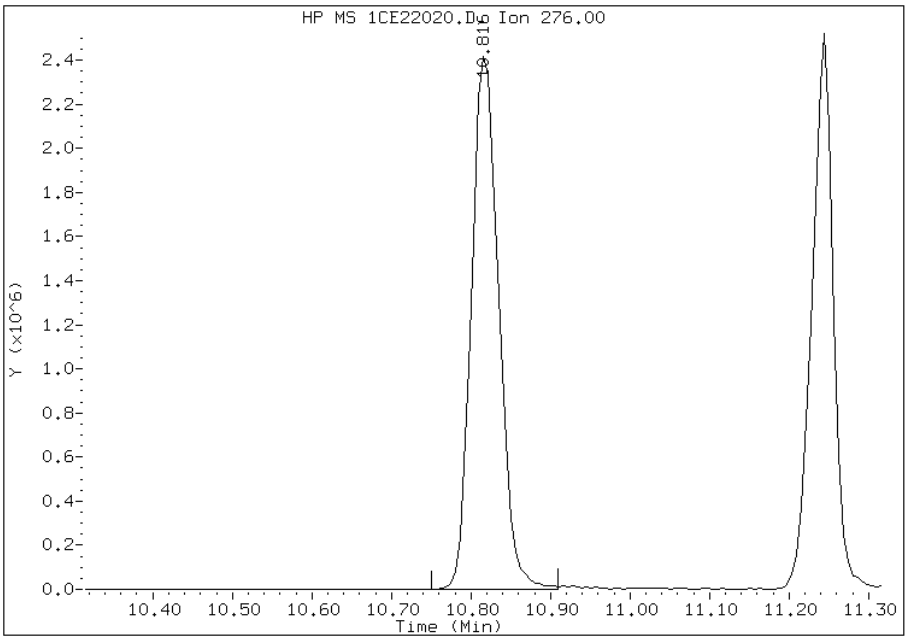
Processing Integration Results

RT: 10.82

Response: 5750303

Amount: 52

Conc: 52



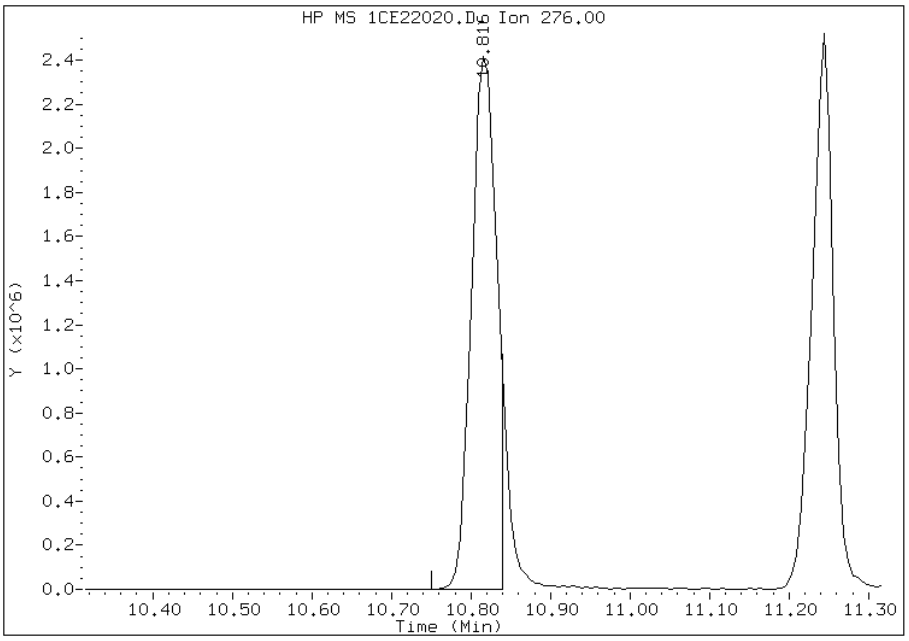
Manual Integration Results

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.: 680-90686-2 Analy Batch No.: 137830

SDG No.: 68090686-2

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.: 680-90686-2 Analy Batch No.: 137830

SDG No.: 68090686-2

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.: 680-90686-2 Analy B

SDG No.: 68090686-2

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibra

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					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	14052 2454439	67892 3854620	342402	771801	1601823	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	8029 1611089	42157 2505140	224268	507950	1036995	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	8716 1622169	44810 2515238	228660	519415	1048787	0.200 30.0	1 50
1,1'-Biphenyl	ANT	Ave	10365 1954075	52741 3029358	276490	620318	1271034	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	10818 2528965	60413 3904072	340416	790555	1640830	0.200 30.0	1 50
Acenaphthene	ANT	Ave	8637 1486714	42059 2292684	213507	479776	967502	0.200 30.0	1 50
Dibenzofuran	ANT	Ave	10945 2095529	58216 3233580	297831	659738	1364999	0.200 30.0	1 50
Fluorene	ANT	Ave	8446 1759028	46002 2721626	246360	550212	1138861	0.200 30.0	1 50
Phenanthrene	PHN	Ave	14705 2572622	71492 3974751	366377	818249	1690403	0.200 30.0	1 50
Anthracene	PHN	Ave	12204 2636003	65898 4044900	366727	813240	1697570	0.200 30.0	1 50
Fluoranthene	PHN	Ave	12384 2822979	67793 4360425	386131	864953	1802958	0.200 30.0	1 50
Pyrene	CRY	Ave	13459 2878307	72384 4398475	400281	887682	1840728	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	19741 2709801	72436 4292530	364317	810407	1750909	0.200 30.0	1 50
Chrysene	CRY	Ave	15772 2431700	69888 3781128	350103	770411	1561209	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	10089 2543308	60091 4185749	340701	782118	1676574	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	11489 2688538	65030 4172175	362152	805050	1680826	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Lin2	7155 2427727	48714 3889042	315324	726611	1554051	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	None	7308 2359651	46950 3980252	303899	718264	1476159	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Lin2	8406 2300940	52791 3746128	311908	690573	1486524	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	9269 2296193	54271 3714851	319890	710395	1498391	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	7185 1451630	37357 2294445	197816	442134	936684	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

137830

N

2984

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

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

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	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

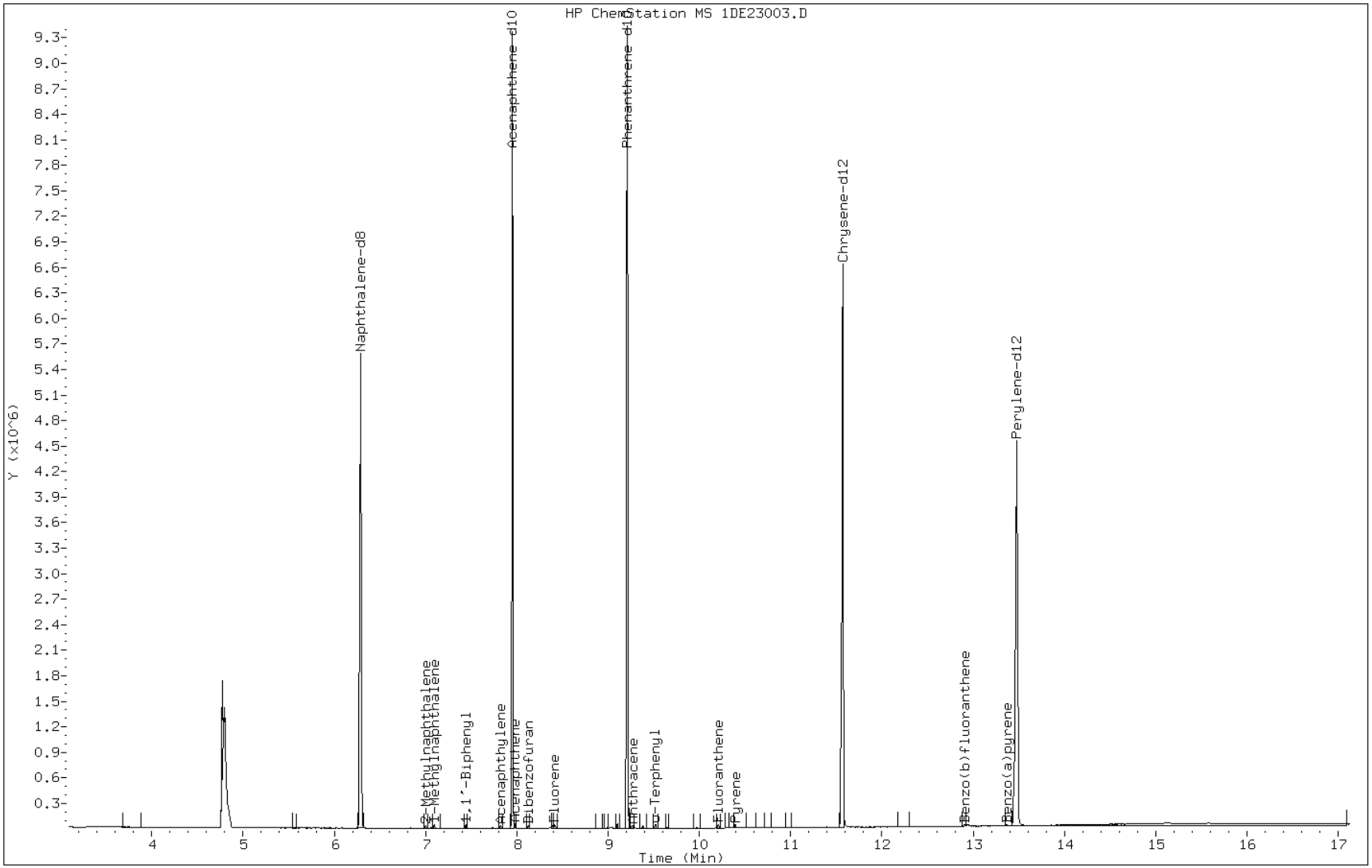
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

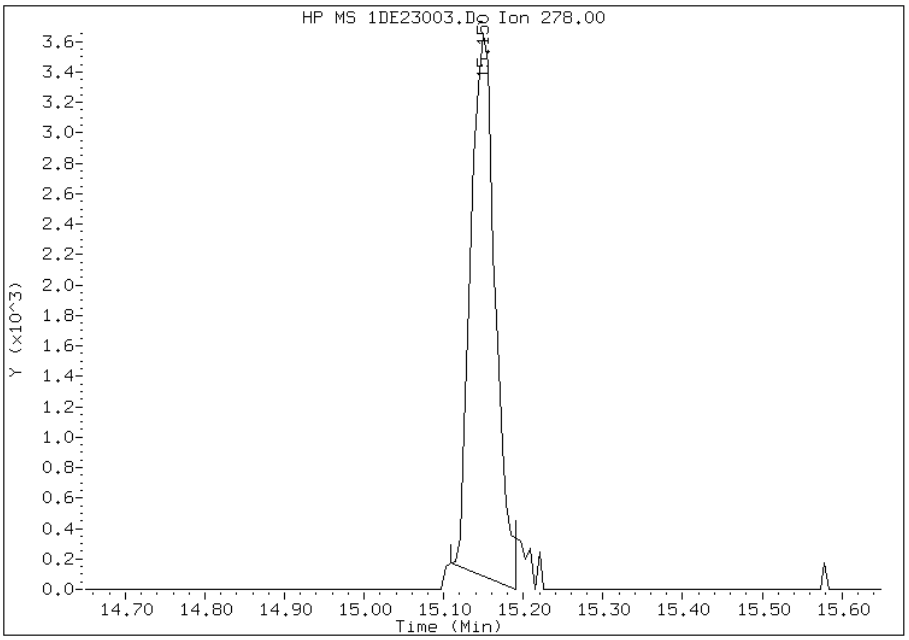
Processing Integration Results

RT: 15.15

Response: 7611

Amount: 0

Conc: 0



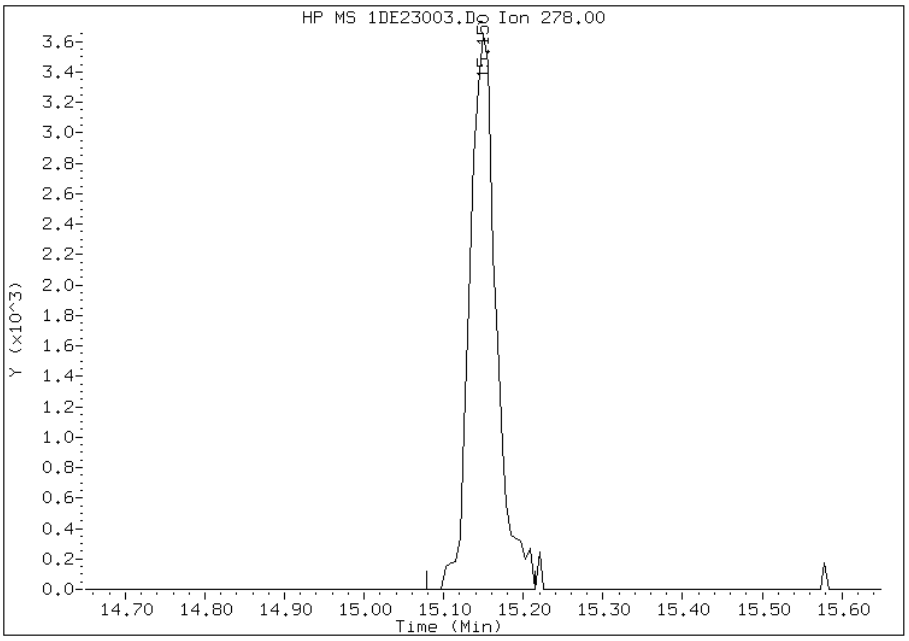
Manual Integration Results

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

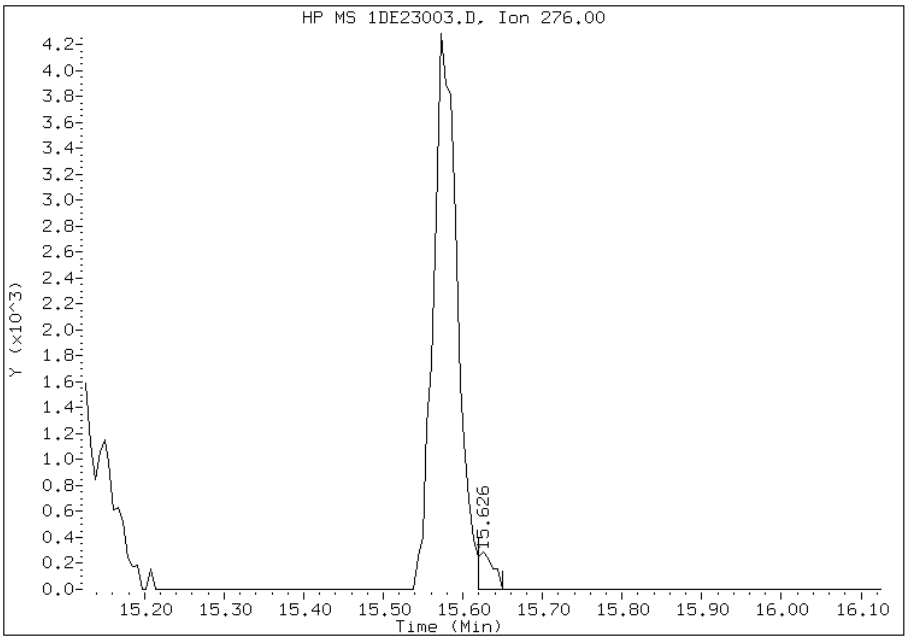
Processing Integration Results

RT: 15.63

Response: 387

Amount: 0

Conc: 0



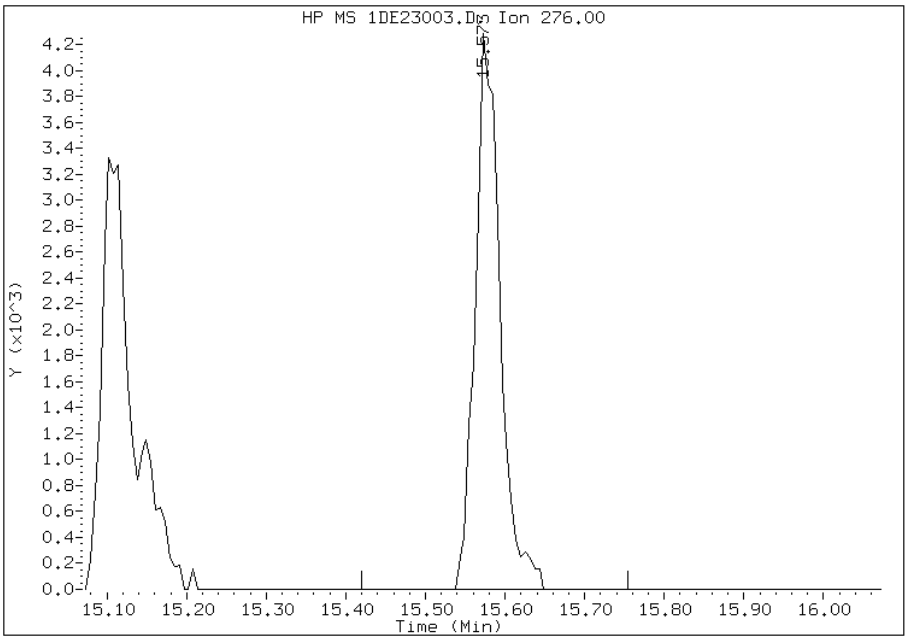
Manual Integration Results

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

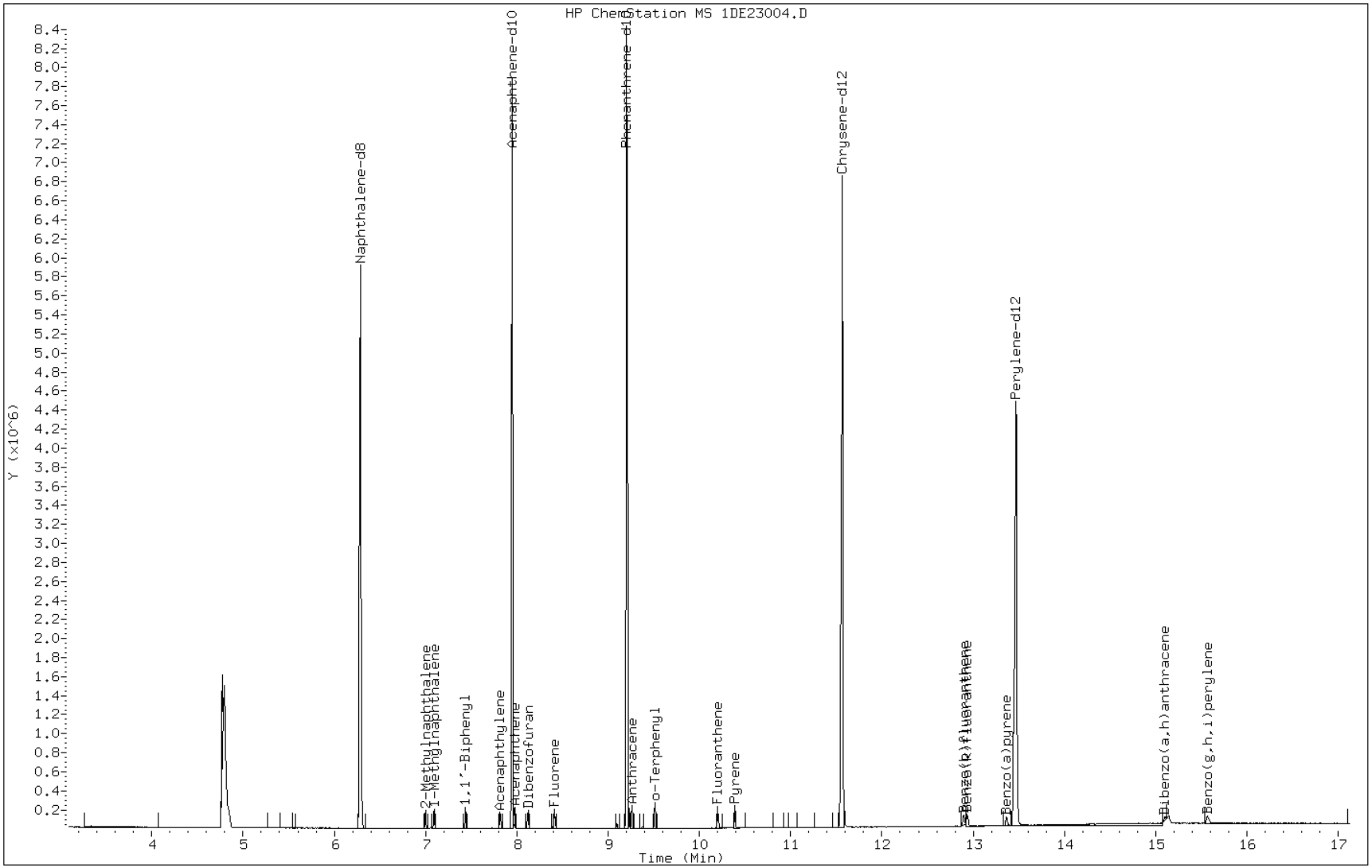
Date: 23-MAY-2013 13:26

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

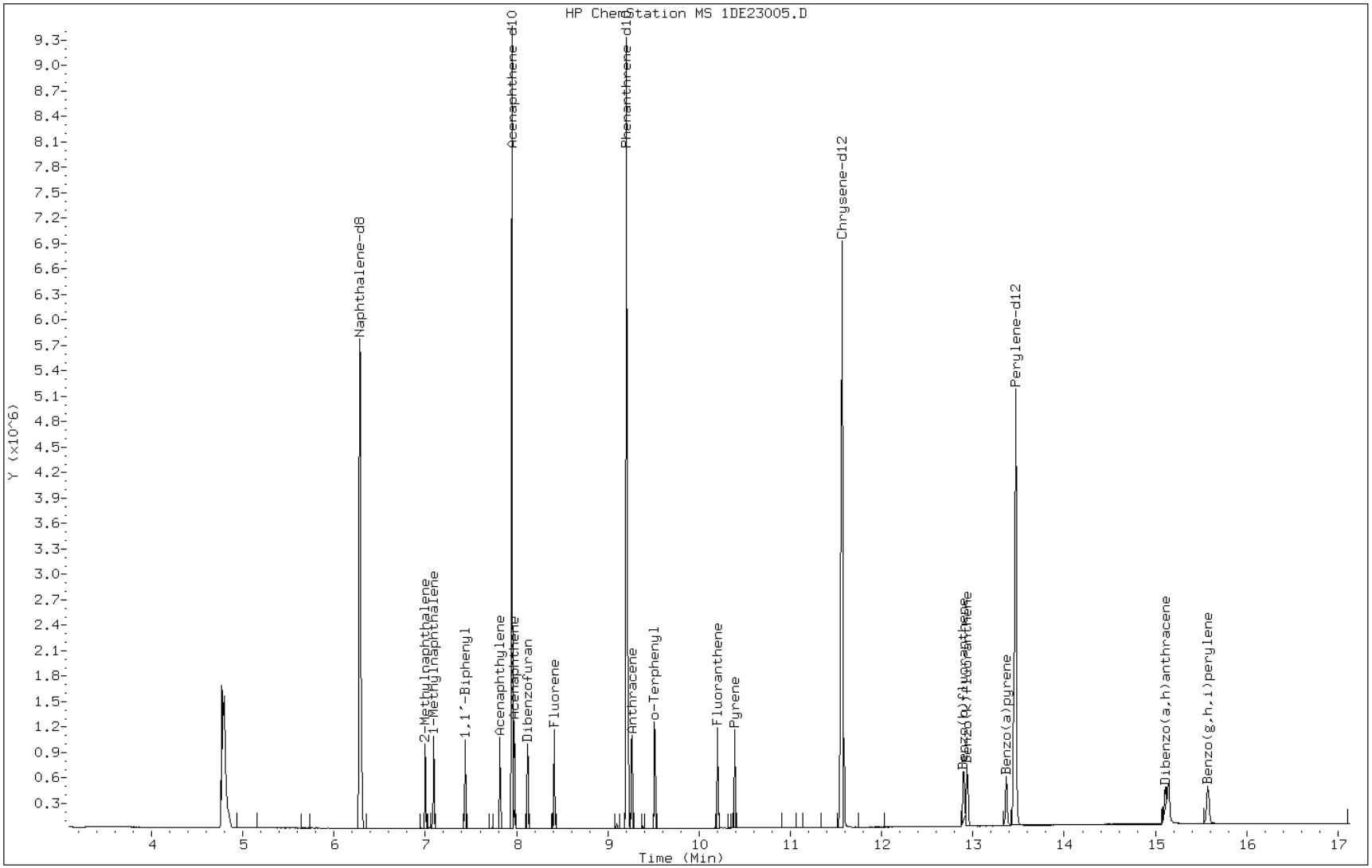
H - Operator selected an alternate compound hit.

Data File: 1DE23005.D

Date: 23-MAY-2013 13:48

Client ID: Instrument: BSMSD.i

Sample Info: IC3 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23006.D
Lab Smp Id: IC4
Inj Date : 23-MAY-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:48 Cal File: 1DE23005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.284	6.284	(1.000)	3084725	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	442134	10.0000	10
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	2860263	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	2933068	40.0000	
	2 Naphthalene	128	6.301	6.301	(1.003)	771801	10.0000	10
	3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	507950	10.0000	10
	4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	519415	10.0000	10
	5 1,1'-Biphenyl	154	7.435	7.435	(0.936)	620318	10.0000	14
	6 Acenaphthylene	152	7.817	7.817	(0.984)	790555	10.0000	11
	8 Acenaphthene	154	7.976	7.976	(1.004)	479776	10.0000	10
	9 Dibenzofuran	168	8.123	8.123	(1.022)	659738	10.0000	10
	10 Fluorene	166	8.416	8.416	(1.059)	550212	10.0000	10
	12 Phenanthrene	178	9.221	9.221	(1.002)	818249	10.0000	10
	13 Anthracene	178	9.263	9.263	(1.006)	813240	10.0000	10
	16 Fluoranthene	202	10.203	10.203	(1.109)	864953	10.0000	11
	17 Pyrene	202	10.391	10.391	(0.898)	887682	10.0000	11
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	810407	10.0000	9.5
	20 Chrysene	228	11.589	11.589	(1.002)	770411	10.0000	10
	21 Benzo(b)fluoranthene	252	12.905	12.905	(0.958)	782118	10.0000	11
	22 Benzo(k)fluoranthene	252	12.941	12.941	(0.961)	805050	10.0000	10
	23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	726611	10.0000	10
	25 Indeno(1,2,3-cd)pyrene	276	15.114	15.114	(1.122)	718264	10.0000	9.6
	26 Dibenzo(a,h)anthracene	278	15.150	15.150	(1.125)	690573	10.0000	9.9
	27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.157)	710395	10.0000	11

Data File: 1DE23006.D

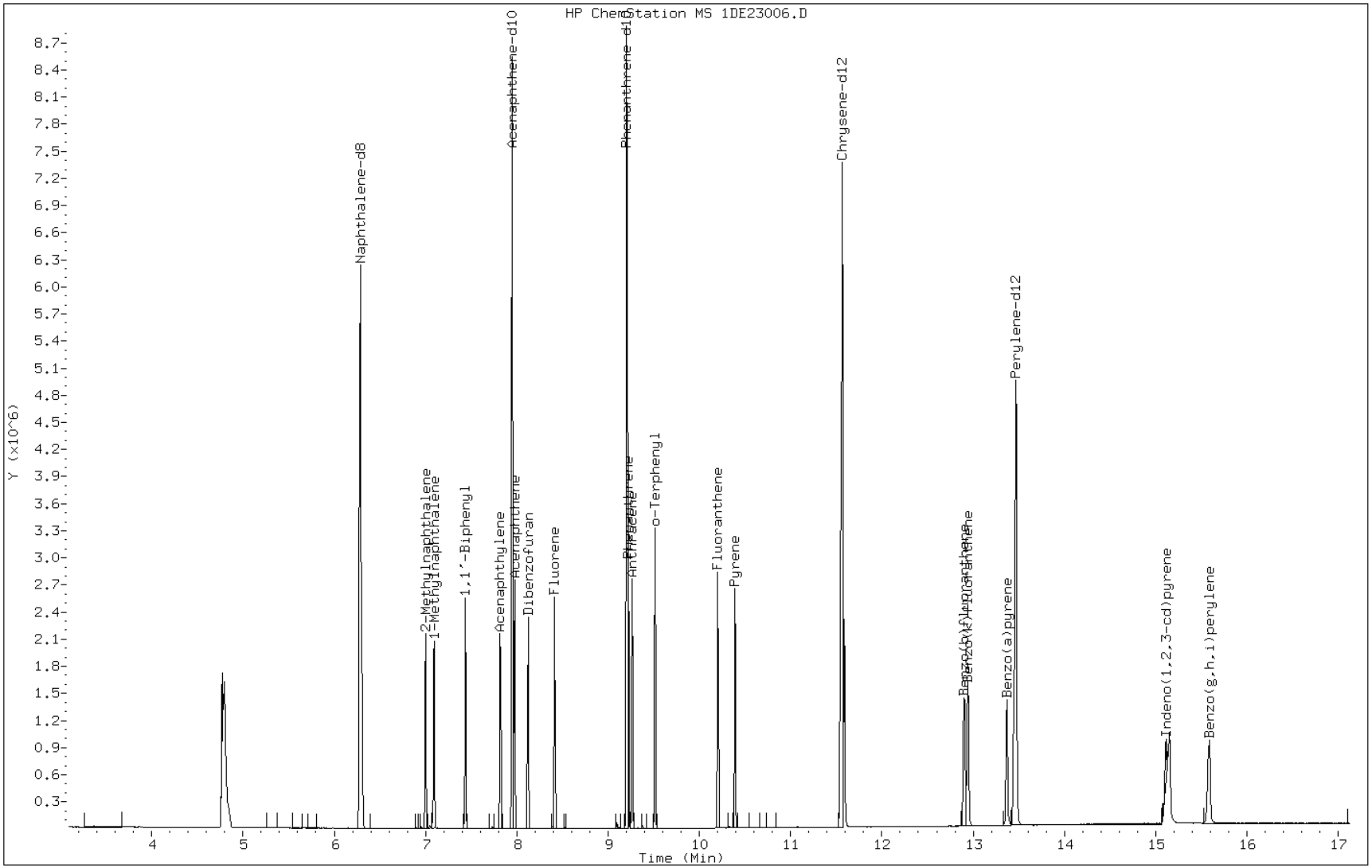
Date: 23-MAY-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC4

Operator: SCC



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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

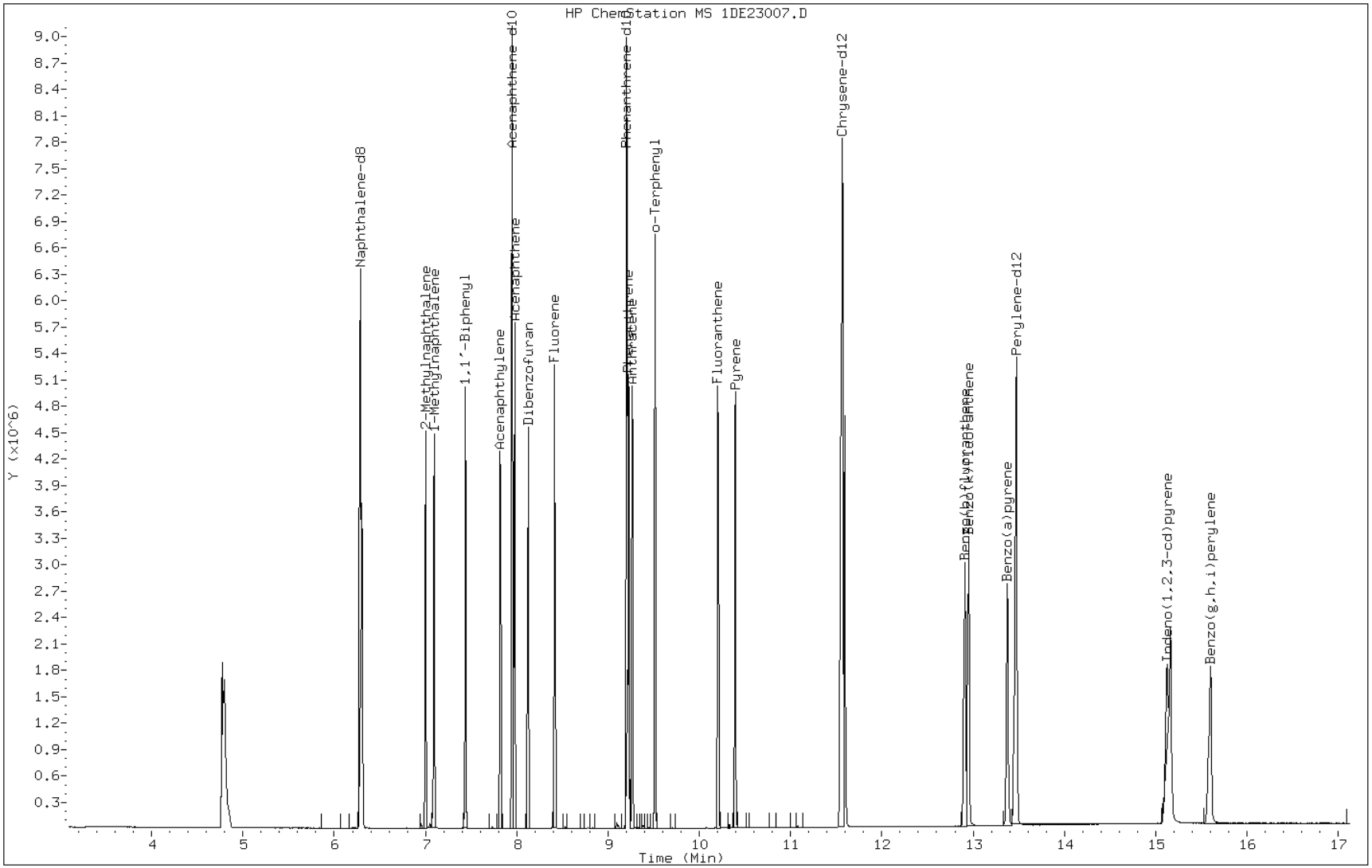
Date: 23-MAY-2013 14:33

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

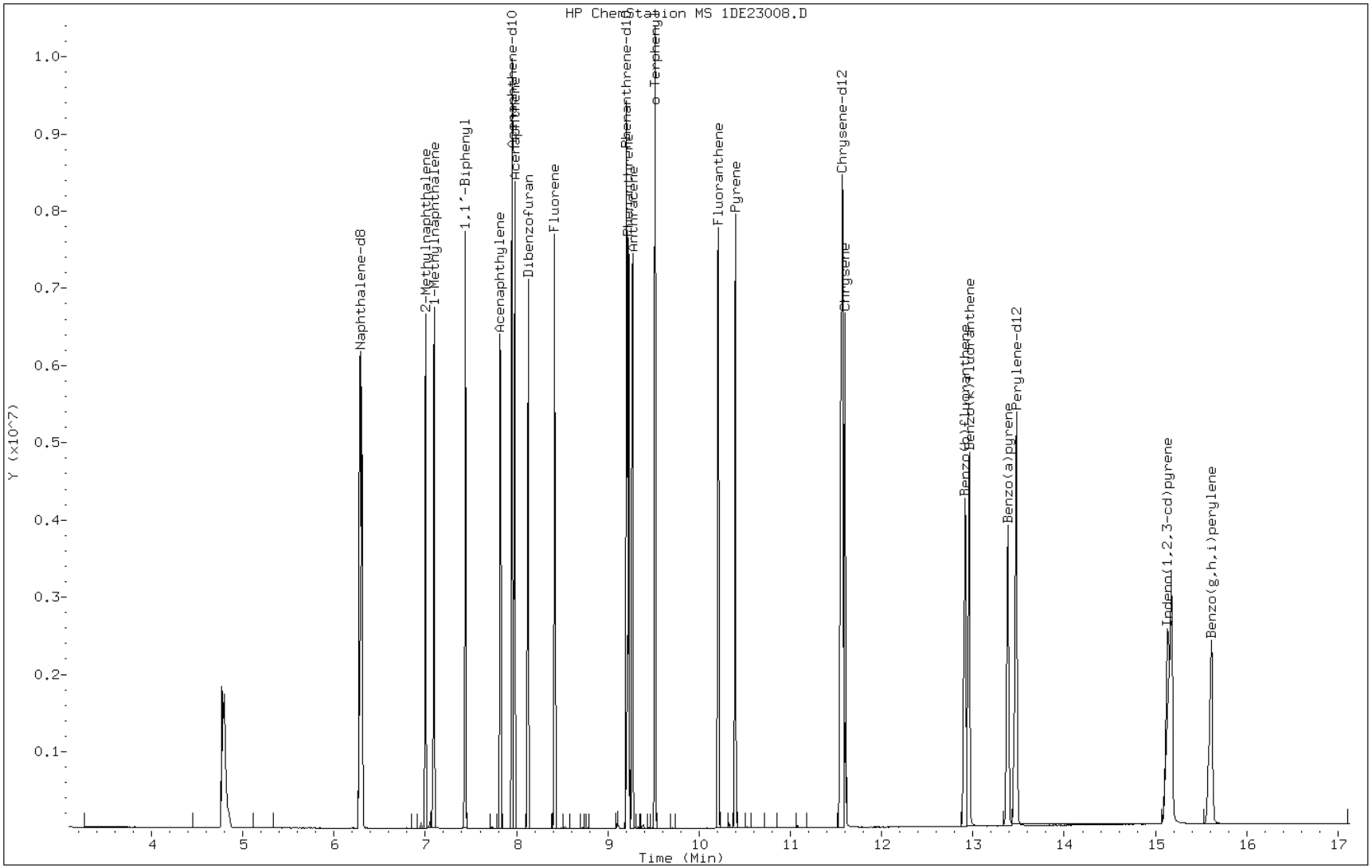
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
$	15 o-Terphenyl	230	9.518	9.518	(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

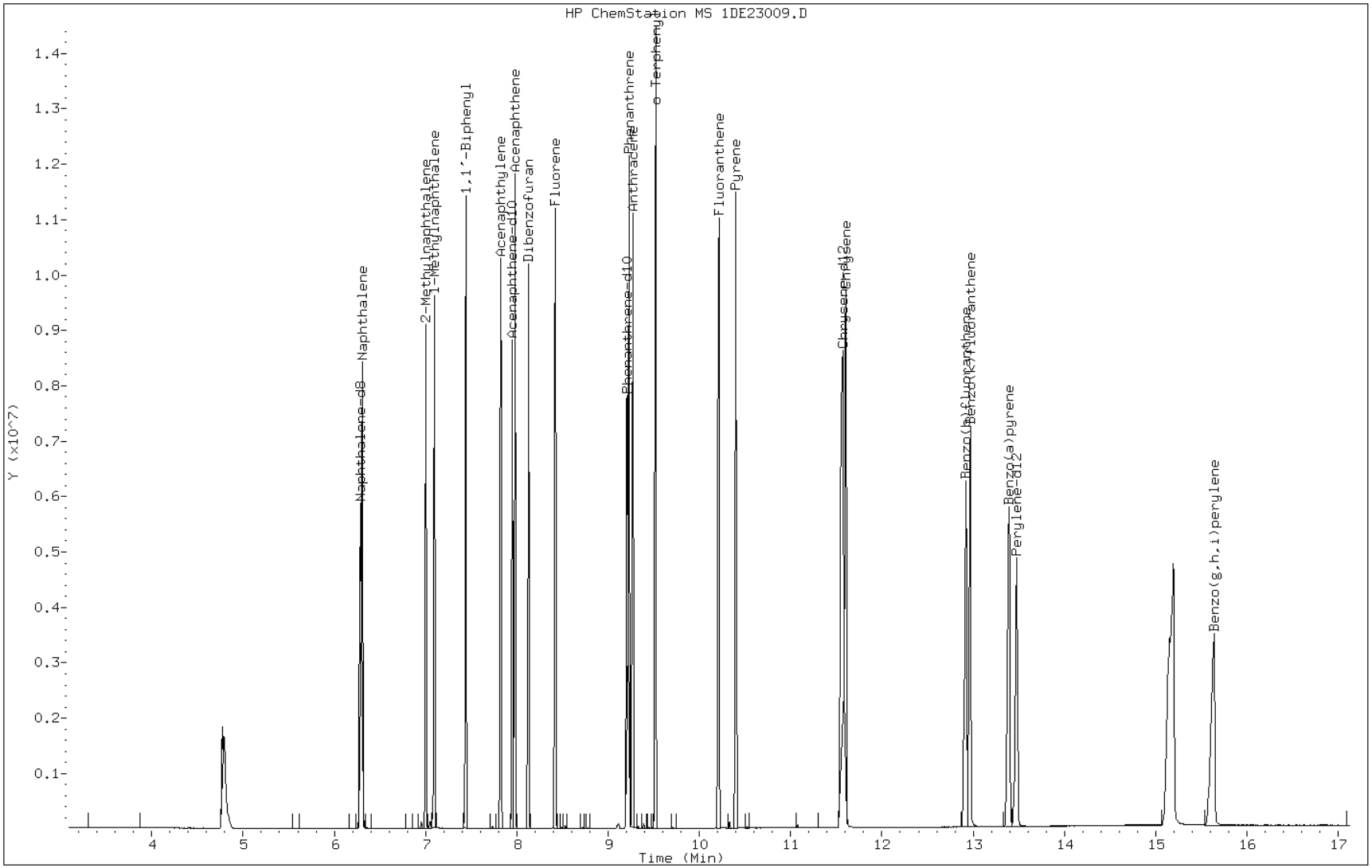
A - Target compound detected but, quantitated amount exceeded maximum amount.

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.: 680-90686-2

SDG No.: 68090686-2

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

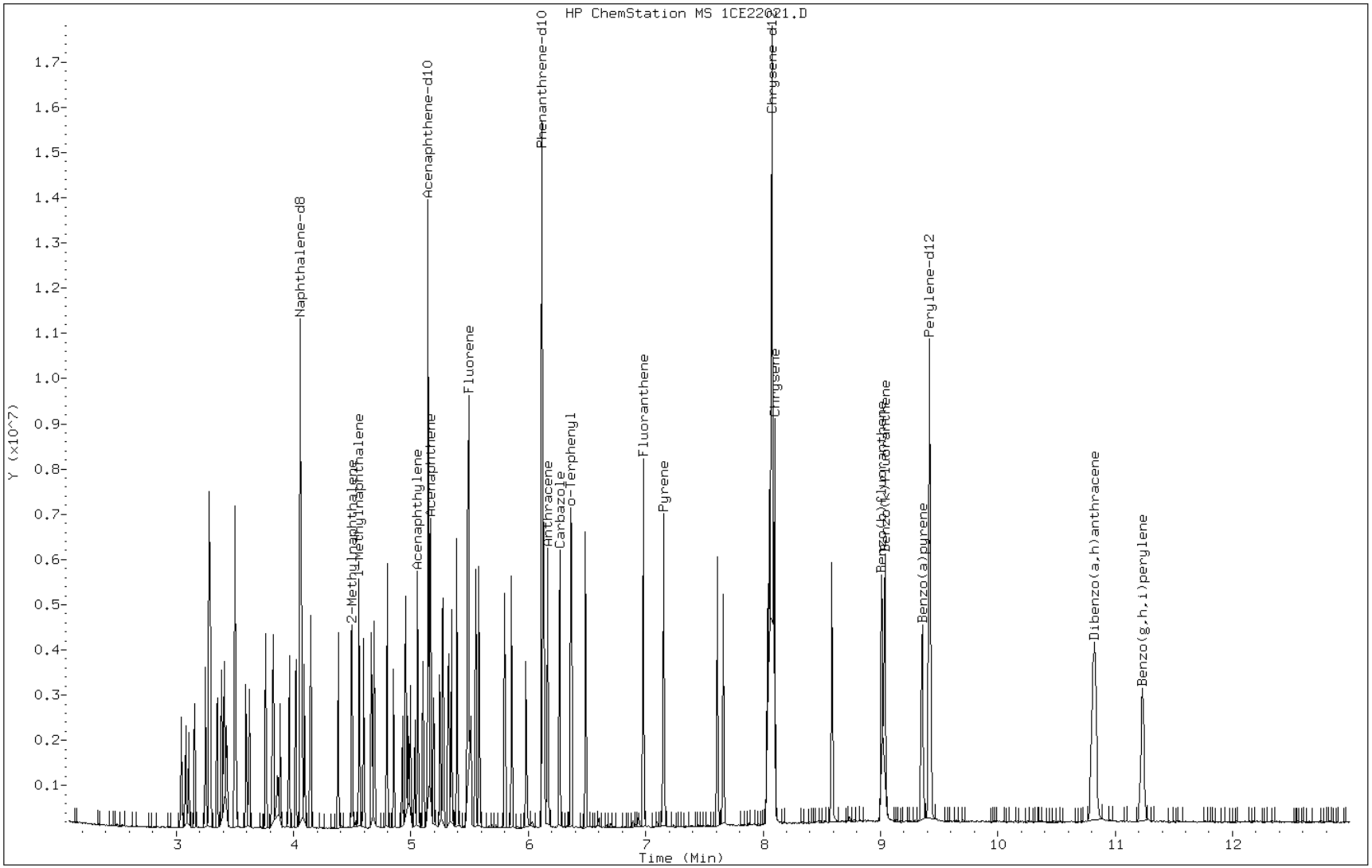
Date: 22-MAY-2013 18:24

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

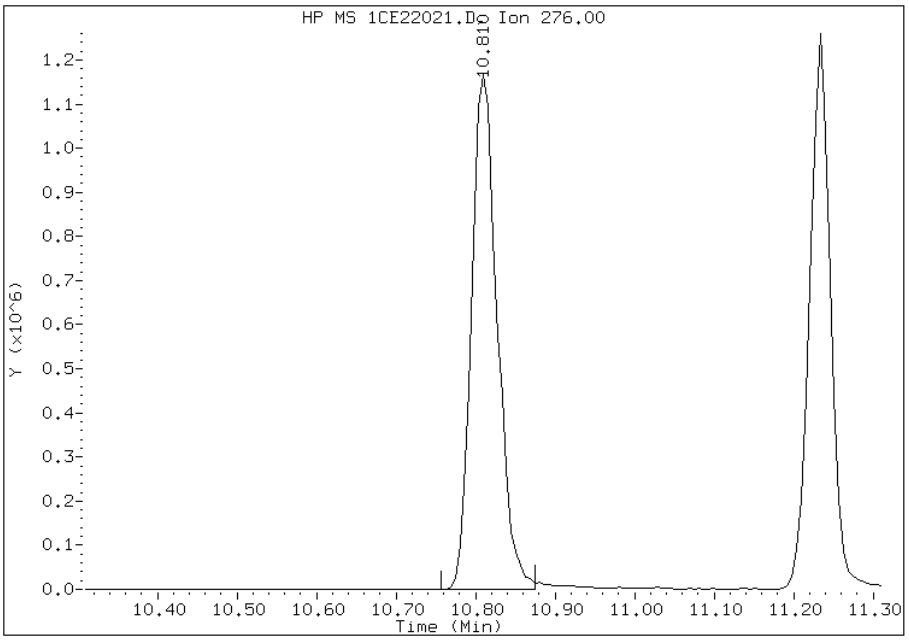
Processing Integration Results

RT: 10.81

Response: 2607256

Amount: 20

Conc: 20



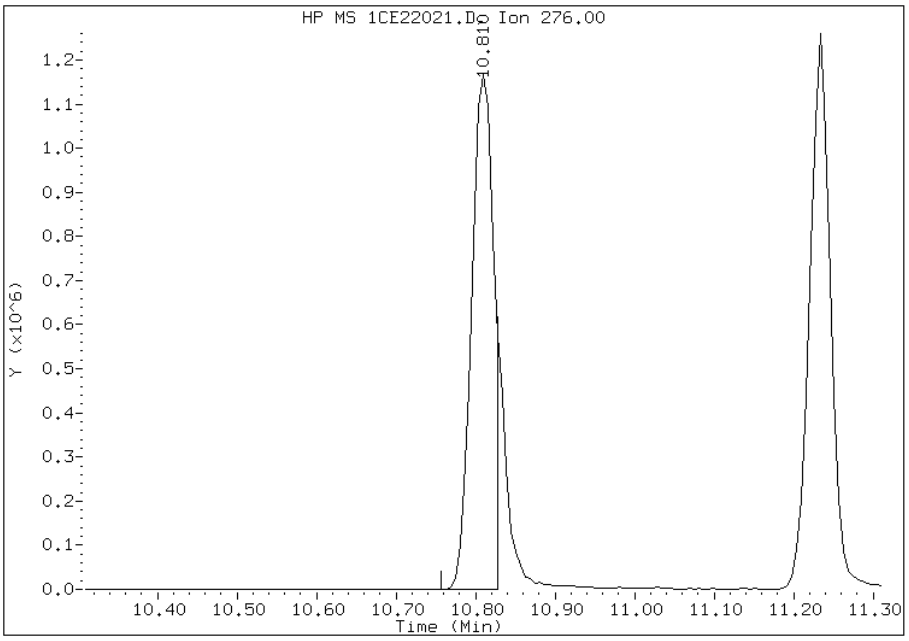
Manual Integration Results

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.: 680-90686-2

SDG No.: 68090686-2

Lab Sample ID: CCVIS 660-138098/3 Calibration Date: 06/04/2013 10:50

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: 1CF04003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9705	0.0000	17200	20000	-0.1	20.0
2-Methylnaphthalene	Ave	0.6261	0.6625	0.0000	21200	20000	5.8	20.0
1-Methylnaphthalene	Ave	0.6160	0.6096	0.0000	19800	20000	-1.0	20.0
Acenaphthylene	Ave	1.533	1.658	0.0000	21600	20000	8.2	20.0
Acenaphthene	Ave	0.9616	1.013	0.0000	21100	20000	5.4	20.0
Fluorene	Ave	1.227	1.369	0.0000	22300	20000	11.6	20.0
Phenanthrene	Ave	1.182	1.139	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.095	1.151	0.0000	21000	20000	5.1	20.0
Carbazole	None		0.999	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.208	1.300	0.0000	21500	20000	7.7	20.0
Pyrene	Ave	1.080	1.088	0.0000	20100	20000	0.7	20.0
Benzo[a]anthracene	Ave	1.103	1.110	0.0000	20100	20000	0.6	20.0
Chrysene	Ave	1.111	1.114	0.0000	20100	20000	0.3	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.109	0.0000	22600	20000	12.8	20.0
Benzo[k]fluoranthene	Ave	1.098	1.110	0.0000	20200	20000	1.1	20.0
Benzo[a]pyrene	Lin2	0.9064	1.053	0.0000	21100	20000	5.3	20.0
Indeno[1,2,3-cd]pyrene	None		1.067	0.0000	20100	20000	0.5	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9387	0.0000	22000	20000	9.9	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9640	0.0000	20700	20000	3.7	20.0
o-Terphenyl	Ave	0.6231	0.6657	0.0000	21400	20000	6.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 04-JUN-2013 10:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1	Naphthalene-d8	136	4.045	4.045	(1.000)	3174307	40.0000	
* 6	Acenaphthene-d10	164	5.133	5.133	(1.000)	2209321	40.0000	
* 10	Phenanthrene-d10	188	6.104	6.104	(1.000)	4430348	40.0000	(H)
$ 14	o-Terphenyl	230	6.351	6.351	(1.040)	1474592	20.0000	21.3667(H)
* 18	Chrysene-d12	240	8.068	8.068	(1.000)	5836553	40.0000	
* 23	Perylene-d12	264	9.409	9.409	(1.000)	5791367	40.0000	
2	Naphthalene	128	4.057	4.057	(1.003)	1540349	20.0000	17.1955
3	2-Methylnaphthalene	142	4.480	4.480	(1.108)	1051406	20.0000	21.1607
4	1-Methylnaphthalene	142	4.545	4.545	(1.124)	967473	20.0000	19.7907
5	Acenaphthylene	152	5.045	5.045	(0.983)	1831974	20.0000	21.6300
7	Acenaphthene	154	5.151	5.151	(1.003)	1119313	20.0000	21.0743
9	Fluorene	166	5.480	5.480	(1.068)	1512281	20.0000	22.3151
11	Phenanthrene	178	6.121	6.121	(1.003)	2524084	20.0000	19.2838(H)
12	Anthracene	178	6.157	6.157	(1.009)	2548864	20.0000	21.0193(H)
13	Carbazole	167	6.257	6.257	(1.025)	2213469	20.0000	19.6587
15	Fluoranthene	202	6.968	6.968	(1.142)	2880724	20.0000	21.5319(H)
16	Pyrene	202	7.145	7.145	(0.886)	3174373	20.0000	20.1413
17	Benzo(a)anthracene	228	8.062	8.062	(0.999)	3238158	20.0000	20.1202
19	Chrysene	228	8.092	8.092	(1.003)	3251977	20.0000	20.0692
20	Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	3211227	20.0000	22.5680
21	Benzo(k)fluoranthene	252	9.027	9.027	(0.959)	3213559	20.0000	20.2207
22	Benzo(a)pyrene	252	9.345	9.345	(0.993)	3049476	20.0000	21.0565
24	Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	3088449	20.0000	20.0976(M)
25	Dibenzo(a,h)anthracene	278	10.815	10.815	(1.149)	2718124	20.0000	21.9893
26	Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	2791548	20.0000	20.7484

QC Flag Legend

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

Data File: 1CF04003.D

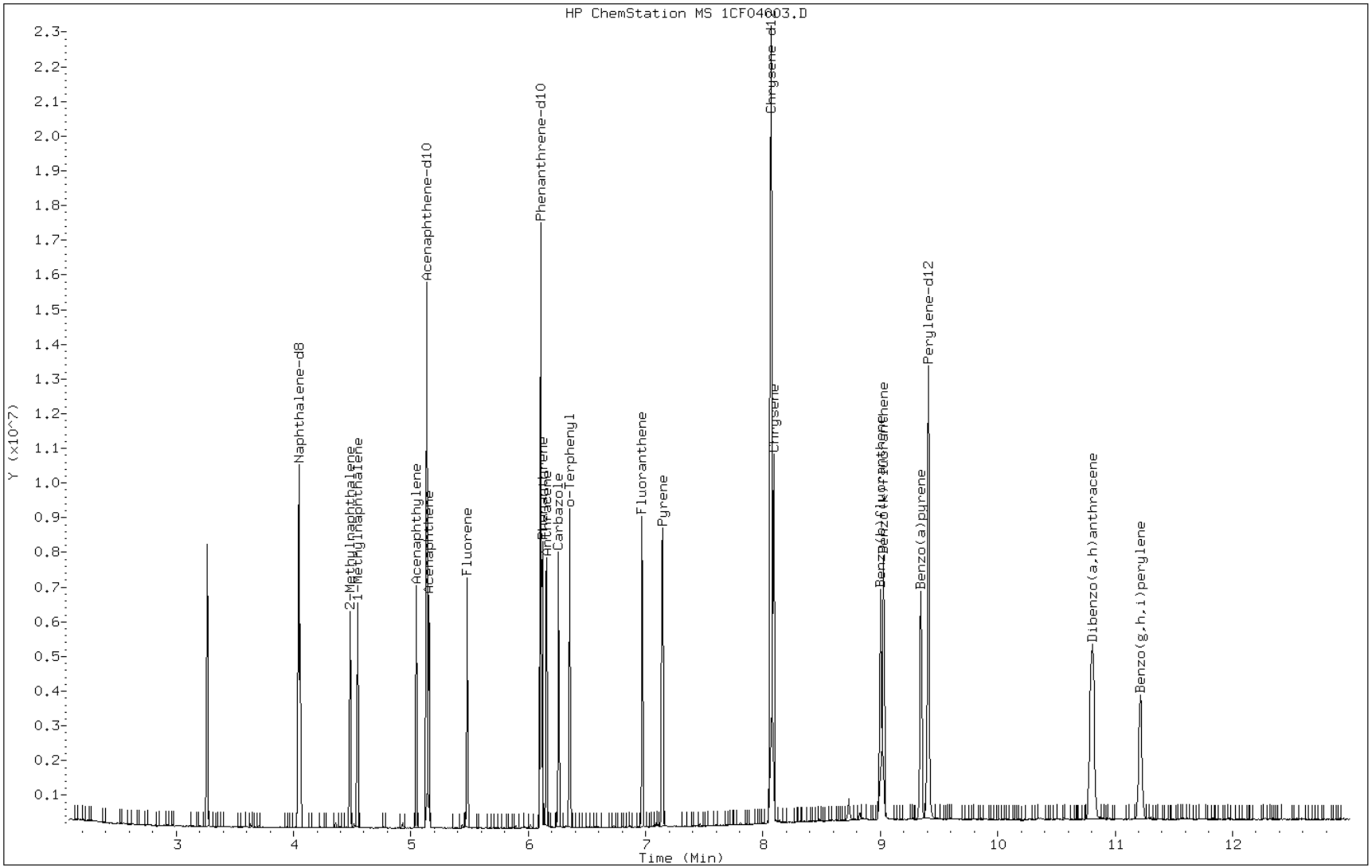
Date: 04-JUN-2013 10:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CF04003.D
Inj. Date and Time: 04-JUN-2013 10:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

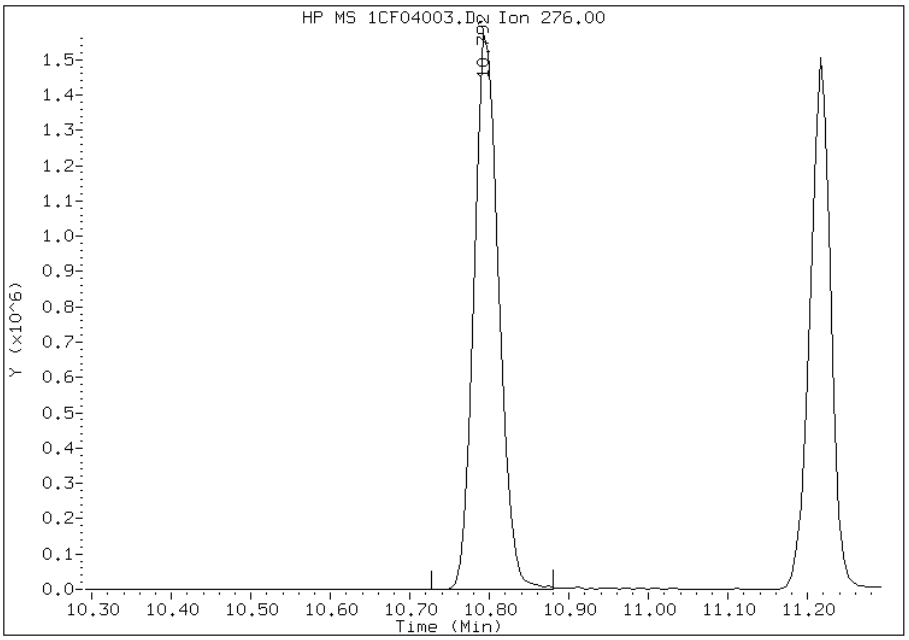
Processing Integration Results

RT: 10.79

Response: 3383362

Amount: 22

Conc: 22



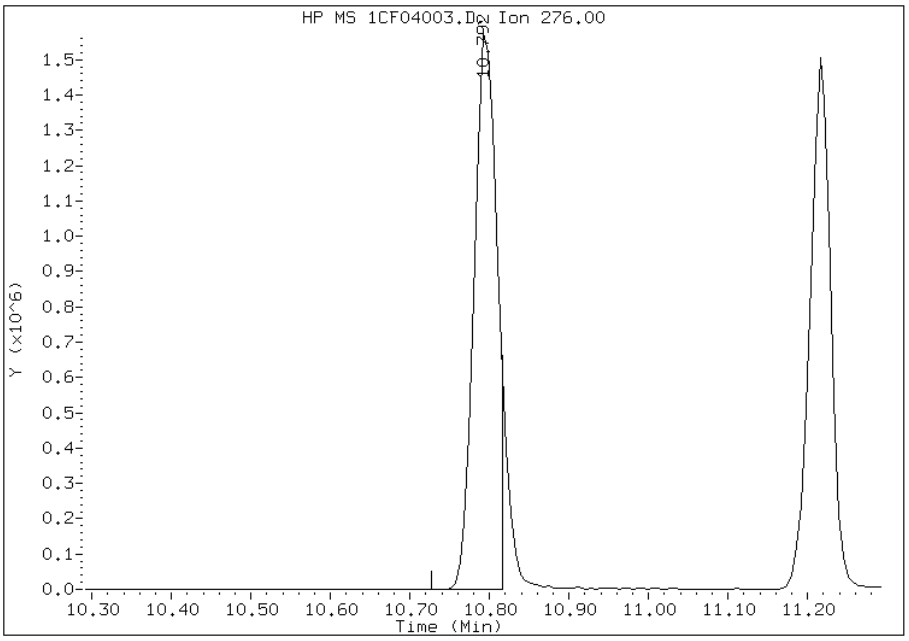
Manual Integration Results

RT: 10.79

Response: 3088449

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 11:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Lab Sample ID: CCVIS 660-138101/3 Calibration Date: 06/05/2013 11:24

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: 1CF05003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9767	0.0000	17300	20000	0.5	20.0
2-Methylnaphthalene	Ave	0.6261	0.6457	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6160	0.5989	0.0000	19400	20000	-2.8	20.0
Acenaphthylene	Ave	1.533	1.620	0.0000	21100	20000	5.7	20.0
Acenaphthene	Ave	0.9616	0.9794	0.0000	20400	20000	1.8	20.0
Fluorene	Ave	1.227	1.344	0.0000	21900	20000	9.6	20.0
Phenanthrene	Ave	1.182	1.151	0.0000	19500	20000	-2.6	20.0
Anthracene	Ave	1.095	1.161	0.0000	21200	20000	6.0	20.0
Carbazole	None		1.003	0.0000	19700	20000	-1.3	20.0
Fluoranthene	Ave	1.208	1.329	0.0000	22000	20000	10.1	20.0
Pyrene	Ave	1.080	1.106	0.0000	20500	20000	2.4	20.0
Benzo[a]anthracene	Ave	1.103	1.120	0.0000	20300	20000	1.5	20.0
Chrysene	Ave	1.111	1.103	0.0000	19900	20000	-0.6	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.083	0.0000	22000	20000	10.2	20.0
Benzo[k]fluoranthene	Ave	1.098	1.110	0.0000	20200	20000	1.1	20.0
Benzo[a]pyrene	Lin2	0.9064	1.058	0.0000	21200	20000	5.8	20.0
Indeno[1,2,3-cd]pyrene	None		1.045	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9193	0.0000	21500	20000	7.7	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9220	0.0000	19800	20000	-0.8	20.0
o-Terphenyl	Ave	0.6231	0.6728	0.0000	21600	20000	8.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 05-JUN-2013 11:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.039	4.039	(1.000)	3117690	40.0000	(H)
*	6 Acenaphthene-d10	164	5.127	5.127	(1.000)	2187855	40.0000	
*	10 Phenanthrene-d10	188	6.092	6.092	(1.000)	4236955	40.0000	(H)
$	14 o-Terphenyl	230	6.345	6.345	(1.042)	1425312	20.0000	21.5953(H)
*	18 Chrysene-d12	240	8.056	8.056	(1.000)	5431412	40.0000	
*	23 Perylene-d12	264	9.392	9.392	(1.000)	5530236	40.0000	
	2 Naphthalene	128	4.051	4.051	(1.003)	1522459	20.0000	17.3044(H)
	3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	1006483	20.0000	20.6245(H)
	4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	933510	20.0000	19.4428(H)
	5 Acenaphthylene	152	5.039	5.039	(0.983)	1772676	20.0000	21.1352
	7 Acenaphthene	154	5.145	5.145	(1.003)	1071352	20.0000	20.3692
	9 Fluorene	166	5.468	5.468	(1.067)	1470467	20.0000	21.9109
	11 Phenanthrene	178	6.110	6.110	(1.003)	2437616	20.0000	19.4732(H)
	12 Anthracene	178	6.145	6.145	(1.009)	2459705	20.0000	21.2099(H)
	13 Carbazole	167	6.251	6.251	(1.026)	2125688	20.0000	19.7403(H)
	15 Fluoranthene	202	6.962	6.962	(1.143)	2816320	20.0000	22.0113(H)
	16 Pyrene	202	7.133	7.133	(0.885)	3003557	20.0000	20.4790
	17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	3041302	20.0000	20.3067
	19 Chrysene	228	8.074	8.074	(1.002)	2996246	20.0000	19.8703
	20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	2993341	20.0000	22.0300
	21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	3068148	20.0000	20.2173
	22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	2926217	20.0000	21.1590
	24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	2889439	20.0000	19.6936(M)
	25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.148)	2542022	20.0000	21.5357
	26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	2549491	20.0000	19.8441

QC Flag Legend

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

Data File: 1CF05003.D

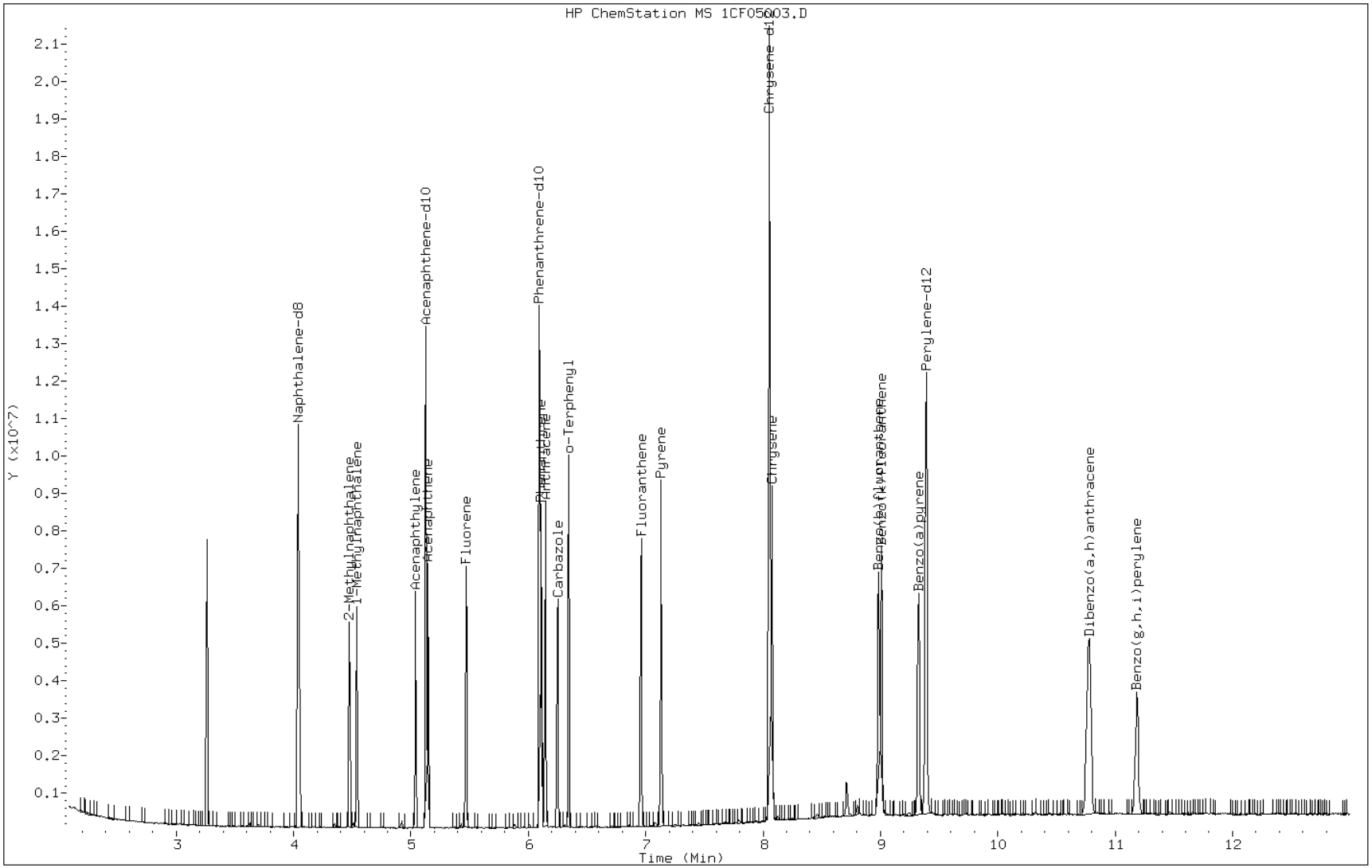
Date: 05-JUN-2013 11:24

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CF05003.D
Inj. Date and Time: 05-JUN-2013 11:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

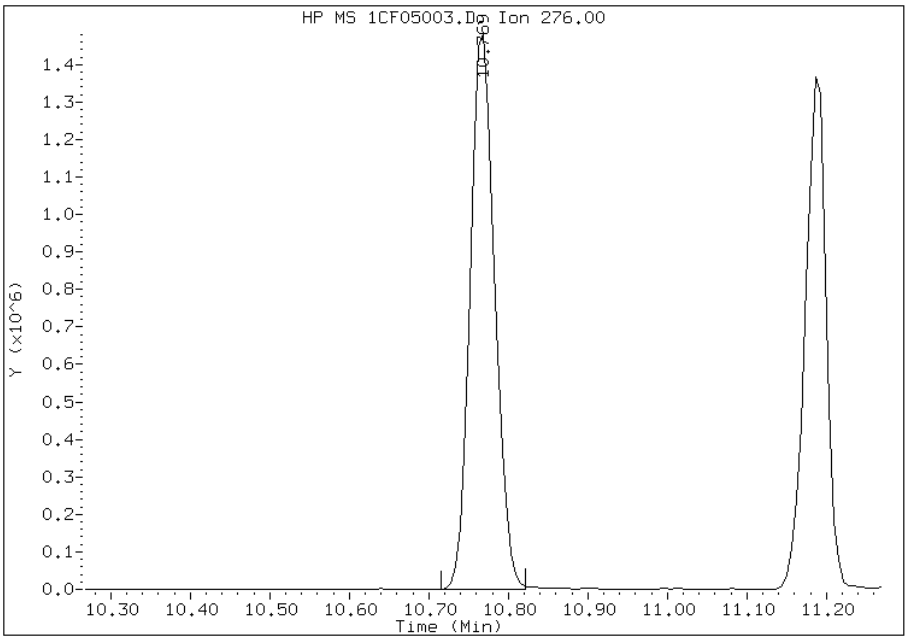
Processing Integration Results

RT: 10.77

Response: 3160698

Amount: 22

Conc: 22



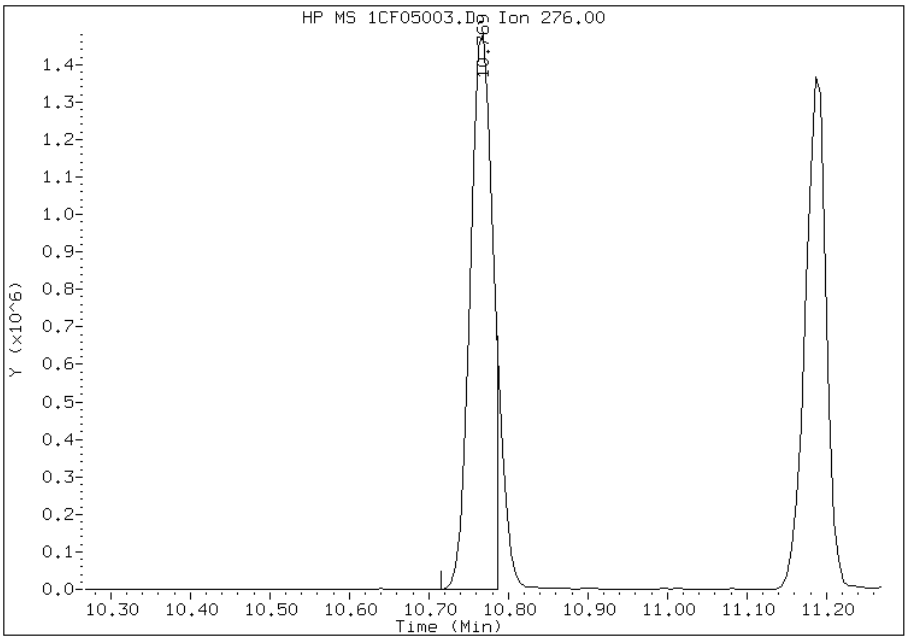
Manual Integration Results

RT: 10.77

Response: 2889439

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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

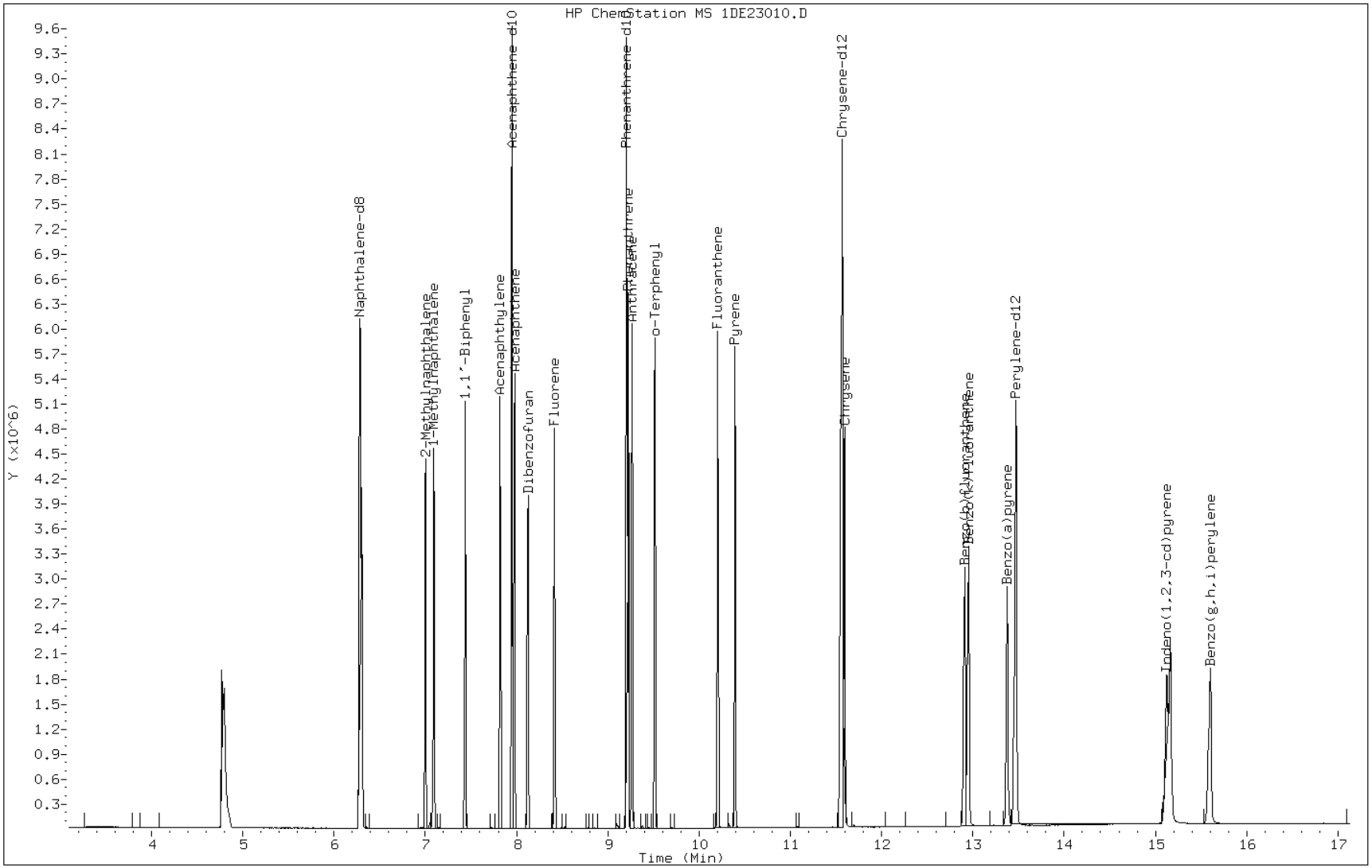
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	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.: 680-90686-2

SDG No.: 68090686-2

Lab Sample ID: CCVIS 660-138011/3 Calibration Date: 06/03/2013 10:59

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: 1DF03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9896	0.0000	20100	20000	0.3	20.0
2-Methylnaphthalene	Ave	0.6281	0.6476	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6466	0.6446	0.0000	19900	20000	-0.3	20.0
Acenaphthylene	Ave	1.658	1.836	0.0000	22100	20000	10.7	20.0
Acenaphthene	Ave	1.052	1.069	0.0000	20300	20000	1.6	20.0
Dibenzofuran	Ave	1.451	1.528		21100	20000	5.3	
Fluorene	Ave	1.190	1.273	0.0000	21400	20000	6.9	20.0
Phenanthrene	Ave	1.083	1.108	0.0000	20500	20000	2.3	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.2	20.0
Fluoranthene	Ave	1.108	1.173	0.0000	21200	20000	5.8	20.0
Pyrene	Ave	1.171	1.256	0.0000	21500	20000	7.3	20.0
Benzo[a]anthracene	Ave	1.187	1.165	0.0000	19600	20000	-1.9	20.0
Chrysene	Ave	1.069	1.047	0.0000	19600	20000	-2.1	20.0
Benzo[b]fluoranthene	Ave	1.002	1.131	0.0000	22600	20000	12.9	20.0
Benzo[k]fluoranthene	Ave	1.049	1.115	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Lin2	0.8952	1.035	0.0000	21000	20000	4.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.027	0.0000	19900	20000	-0.5	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9781	0.0000	20500	20000	2.7	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9832	0.0000	21700	20000	8.3	20.0
o-Terphenyl	Ave	0.5860	0.6180	0.0000	21100	20000	5.5	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 03-JUN-2013 10:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

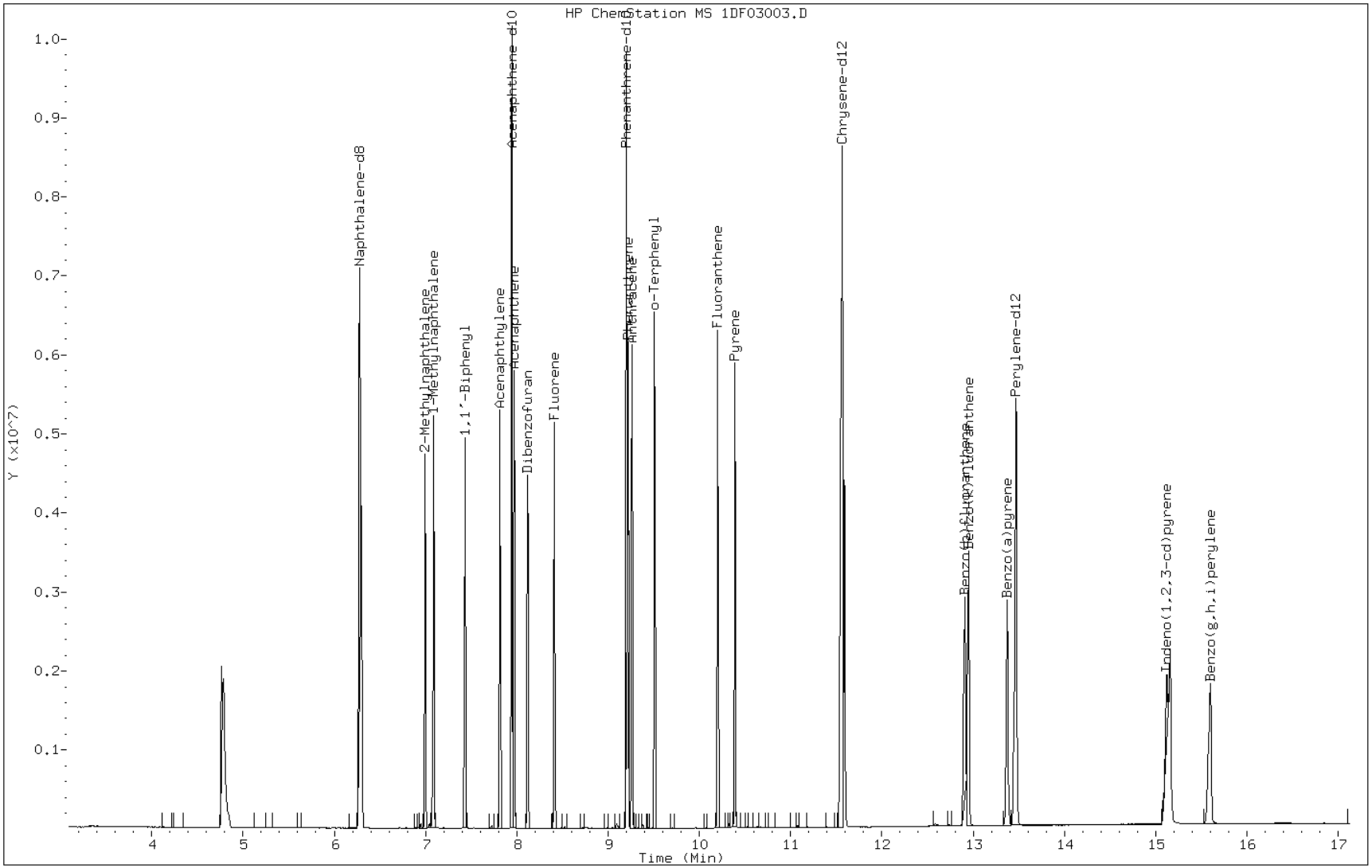
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.278	6.278	(1.000)	3550475	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1958003	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3275219	40.0000	
$	15 o-Terphenyl	230	9.509	9.509	(1.033)	1012028	20.0000	21
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	3125523	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	3123612	40.0000	
	2 Naphthalene	128	6.295	6.295	(1.003)	1756746	20.0000	20
	3 2-Methylnaphthalene	142	6.995	6.995	(1.114)	1149704	20.0000	21
	4 1-Methylnaphthalene	142	7.089	7.089	(1.129)	1144342	20.0000	20
	5 1,1'-Biphenyl	154	7.429	7.429	(0.935)	1398131	20.0000	21
	6 Acenaphthylene	152	7.817	7.817	(0.984)	1797375	20.0000	22
	8 Acenaphthene	154	7.970	7.970	(1.003)	1046125	20.0000	20
	9 Dibenzofuran	168	8.117	8.117	(1.021)	1495544	20.0000	21
	10 Fluorene	166	8.411	8.411	(1.058)	1246319	20.0000	21
	12 Phenanthrene	178	9.221	9.221	(1.002)	1814705	20.0000	20
	13 Anthracene	178	9.263	9.263	(1.006)	1844637	20.0000	21
	16 Fluoranthene	202	10.203	10.203	(1.109)	1920264	20.0000	21
	17 Pyrene	202	10.391	10.391	(0.898)	1962899	20.0000	21
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1820097	20.0000	20
	20 Chrysene	228	11.595	11.595	(1.003)	1635839	20.0000	20
	21 Benzo(b)fluoranthene	252	12.911	12.911	(0.959)	1766694	20.0000	22
	22 Benzo(k)fluoranthene	252	12.946	12.946	(0.961)	1742124	20.0000	21
	23 Benzo(a)pyrene	252	13.375	13.375	(0.993)	1617162	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.123)	1603622	20.0000	20
	26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.126)	1527551	20.0000	20
	27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1535565	20.0000	22

Data File: 1DF03003.D

Date: 03-JUN-2013 10:59

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.: 680-90686-2

SDG No.: 68090686-2

Lab Sample ID: CCVIS 660-138106/3 Calibration Date: 06/05/2013 11:54

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: 1DF05003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.002	0.0000	20300	20000	1.6	20.0
2-Methylnaphthalene	Ave	0.6281	0.6373	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6466	0.6278	0.0000	19400	20000	-2.9	20.0
Acenaphthylene	Ave	1.658	1.866	0.0000	22500	20000	12.5	20.0
Acenaphthene	Ave	1.052	1.085	0.0000	20600	20000	3.1	20.0
Dibenzofuran	Ave	1.451	1.540		21200	20000	6.1	
Fluorene	Ave	1.190	1.260	0.0000	21200	20000	5.8	20.0
Phenanthrene	Ave	1.083	1.114	0.0000	20600	20000	2.8	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.1	20.0
Fluoranthene	Ave	1.108	1.136	0.0000	20500	20000	2.5	20.0
Pyrene	Ave	1.171	1.273	0.0000	21700	20000	8.7	20.0
Benzo[a]anthracene	Ave	1.187	1.154	0.0000	19400	20000	-2.8	20.0
Chrysene	Ave	1.069	1.061	0.0000	19800	20000	-0.8	20.0
Benzo[b]fluoranthene	Ave	1.002	1.073	0.0000	21400	20000	7.1	20.0
Benzo[k]fluoranthene	Ave	1.049	1.159	0.0000	22100	20000	10.5	20.0
Benzo[a]pyrene	Lin2	0.8952	1.039	0.0000	21000	20000	5.2	20.0
Indeno[1,2,3-cd]pyrene	None		1.012	0.0000	19600	20000	-2.0	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.002	0.0000	21000	20000	5.2	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9947	0.0000	21900	20000	9.5	20.0
o-Terphenyl	Ave	0.5860	0.5925	0.0000	20200	20000	1.1	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 05-JUN-2013 11:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.265	6.265	(1.000)	3131433	40.0000	
*	7 Acenaphthene-d10	164	7.934	7.934	(1.000)	1623515	40.0000	
*	11 Phenanthrene-d10	188	9.191	9.191	(1.000)	2616277	40.0000	
$	15 o-Terphenyl	230	9.503	9.503	(1.034)	775049	20.0000	20
*	19 Chrysene-d12	240	11.553	11.553	(1.000)	2384410	40.0000	
*	24 Perylene-d12	264	13.457	13.457	(1.000)	2379163	40.0000	
	2 Naphthalene	128	6.289	6.289	(1.004)	1569464	20.0000	20
	3 2-Methylnaphthalene	142	6.988	6.988	(1.115)	997821	20.0000	20
	4 1-Methylnaphthalene	142	7.076	7.076	(1.129)	982874	20.0000	19
	5 1,1'-Biphenyl	154	7.423	7.423	(0.936)	1196549	20.0000	22
	6 Acenaphthylene	152	7.811	7.811	(0.984)	1514934	20.0000	22
	8 Acenaphthene	154	7.963	7.963	(1.004)	880676	20.0000	21
	9 Dibenzofuran	168	8.110	8.110	(1.022)	1249709	20.0000	21
	10 Fluorene	166	8.404	8.404	(1.059)	1022637	20.0000	21
	12 Phenanthrene	178	9.215	9.215	(1.003)	1457241	20.0000	20
	13 Anthracene	178	9.256	9.256	(1.007)	1473173	20.0000	21
	16 Fluoranthene	202	10.196	10.196	(1.109)	1486165	20.0000	20
	17 Pyrene	202	10.384	10.384	(0.899)	1517275	20.0000	22
	18 Benzo(a)anthracene	228	11.542	11.542	(0.999)	1375263	20.0000	19
	20 Chrysene	228	11.583	11.583	(1.003)	1264349	20.0000	20
	21 Benzo(b)fluoranthene	252	12.893	12.893	(0.958)	1276481	20.0000	21
	22 Benzo(k)fluoranthene	252	12.934	12.934	(0.961)	1378884	20.0000	22
	23 Benzo(a)pyrene	252	13.363	13.363	(0.993)	1235874	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.122)	1203397	20.0000	20(H)
	26 Dibenzo(a,h)anthracene	278	15.137	15.137	(1.125)	1192509	20.0000	21
	27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.157)	1183228	20.0000	22

QC Flag Legend

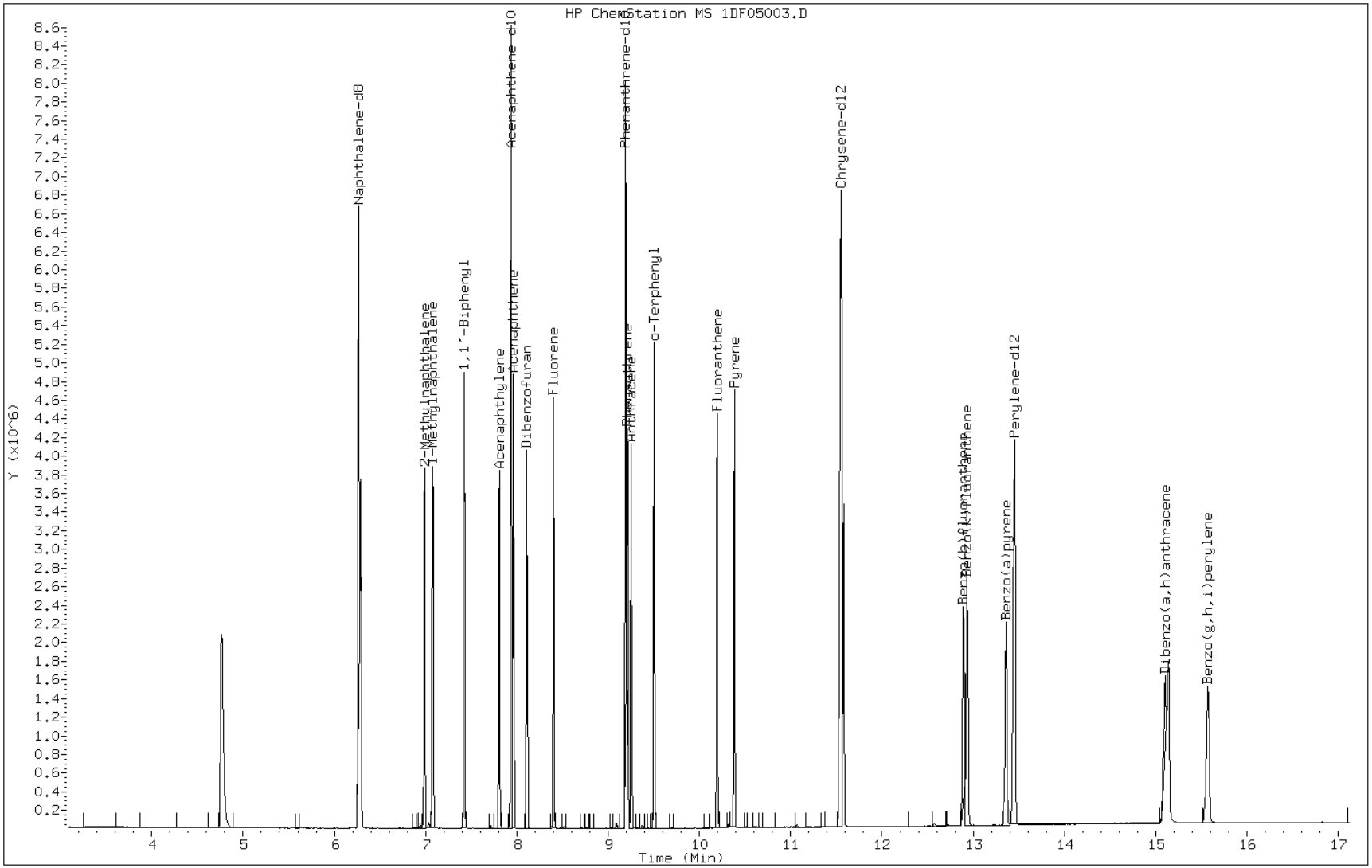
H - Operator selected an alternate compound hit.

Data File: 1DF05003.D

Date: 05-JUN-2013 11:54

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1559459 Operator: SCC



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

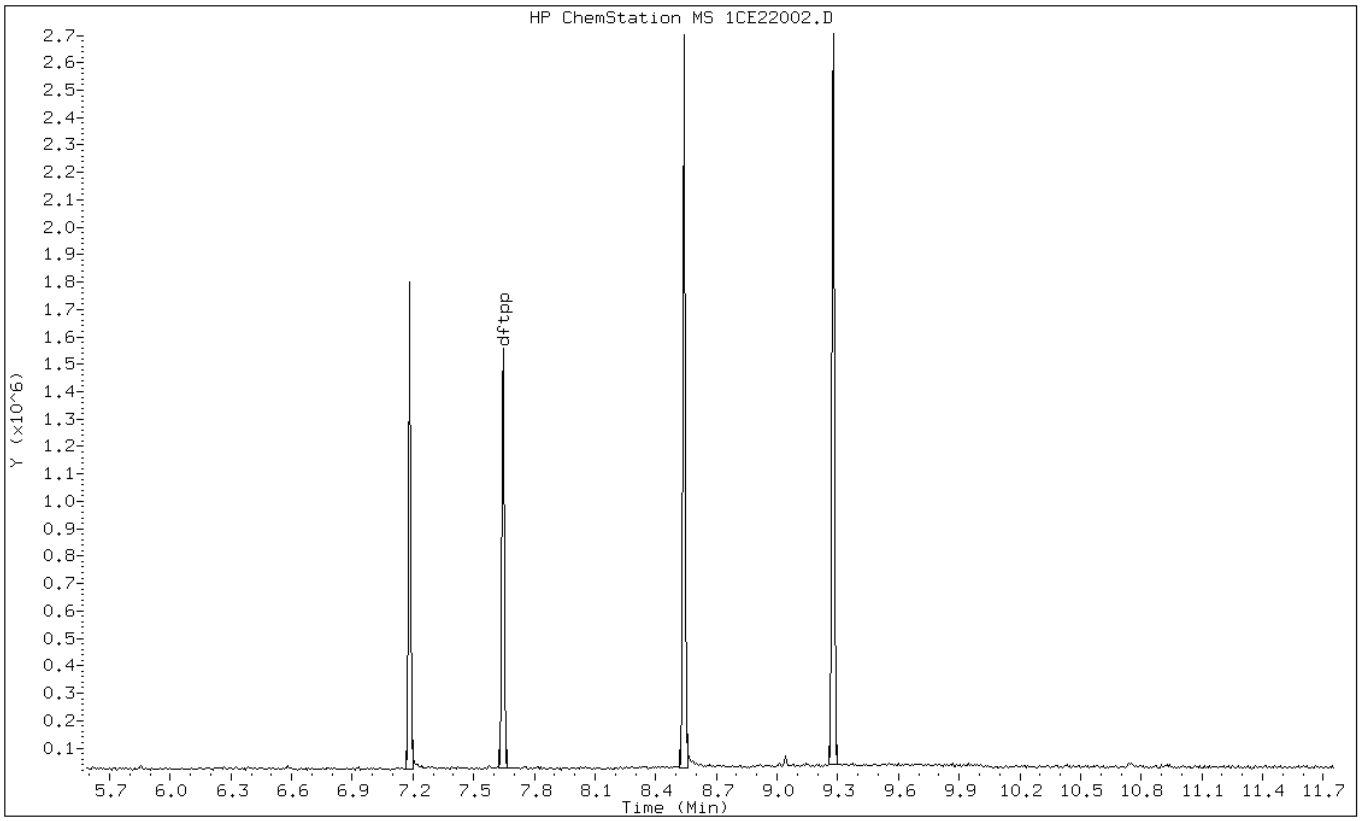
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.645	7.669	-0.024	198	167424			50.00- 0.00	100.00
7.645	7.669	-0.024	51	44984			10.00- 80.00	26.87
7.645	7.669	-0.024	68	1129			0.00- 2.00	1.61
7.645	7.669	-0.024	69	70064			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



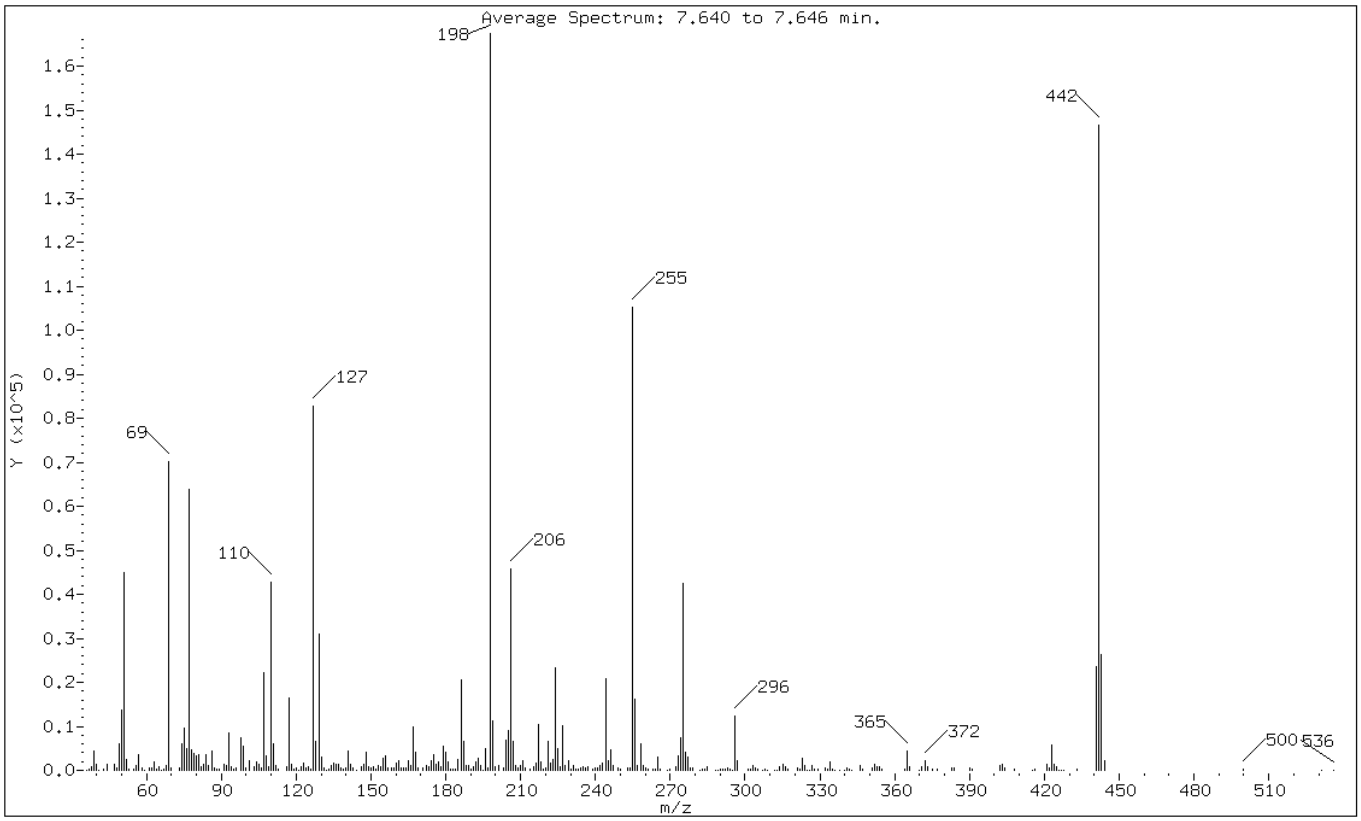
Data File: 1CE22002.D

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\1C060413.b\1CF04002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-JUN-2013 10:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.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

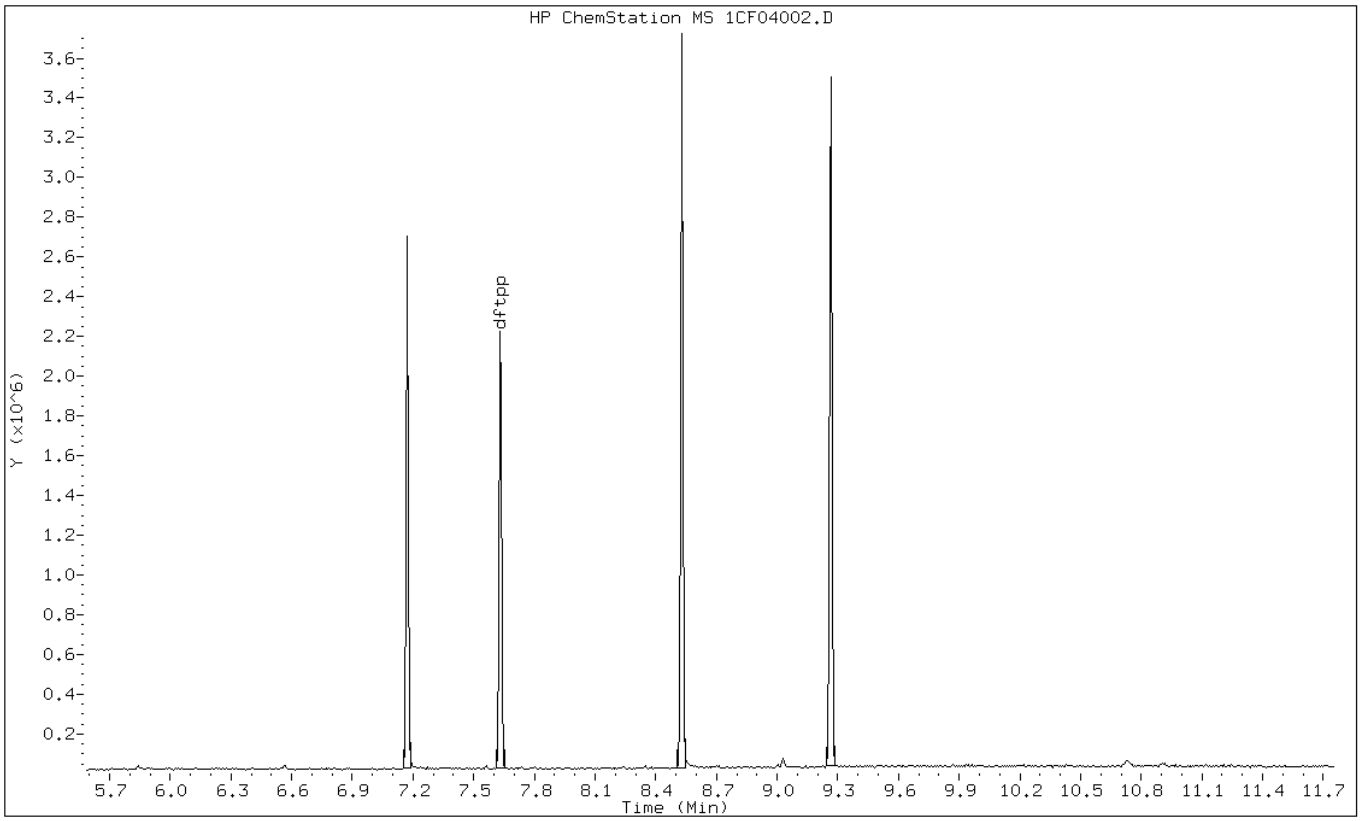
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.627	7.669	-0.042	198	256000			50.00- 0.00	100.00
7.627	7.669	-0.042	51	78672			10.00- 80.00	30.73
7.627	7.669	-0.042	68	1717			0.00- 2.00	1.33
7.627	7.669	-0.042	69	128912			0.00- 0.00	50.36
7.627	7.669	-0.042	70	625			0.00- 2.00	0.48
7.627	7.669	-0.042	127	127400			10.00- 80.00	49.77
7.627	7.669	-0.042	197	1961			0.00- 2.00	0.77
7.627	7.669	-0.042	442	183232			50.00- 0.00	71.58
7.627	7.669	-0.042	199	16198			5.00- 9.00	6.33
7.627	7.669	-0.042	275	54968			10.00- 60.00	21.47
7.627	7.669	-0.042	365	9717			1.00- 0.00	3.80
7.627	7.669	-0.042	441	27088			0.01- 99.99	77.61
7.627	7.669	-0.042	443	34904			15.00- 24.00	19.05

Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



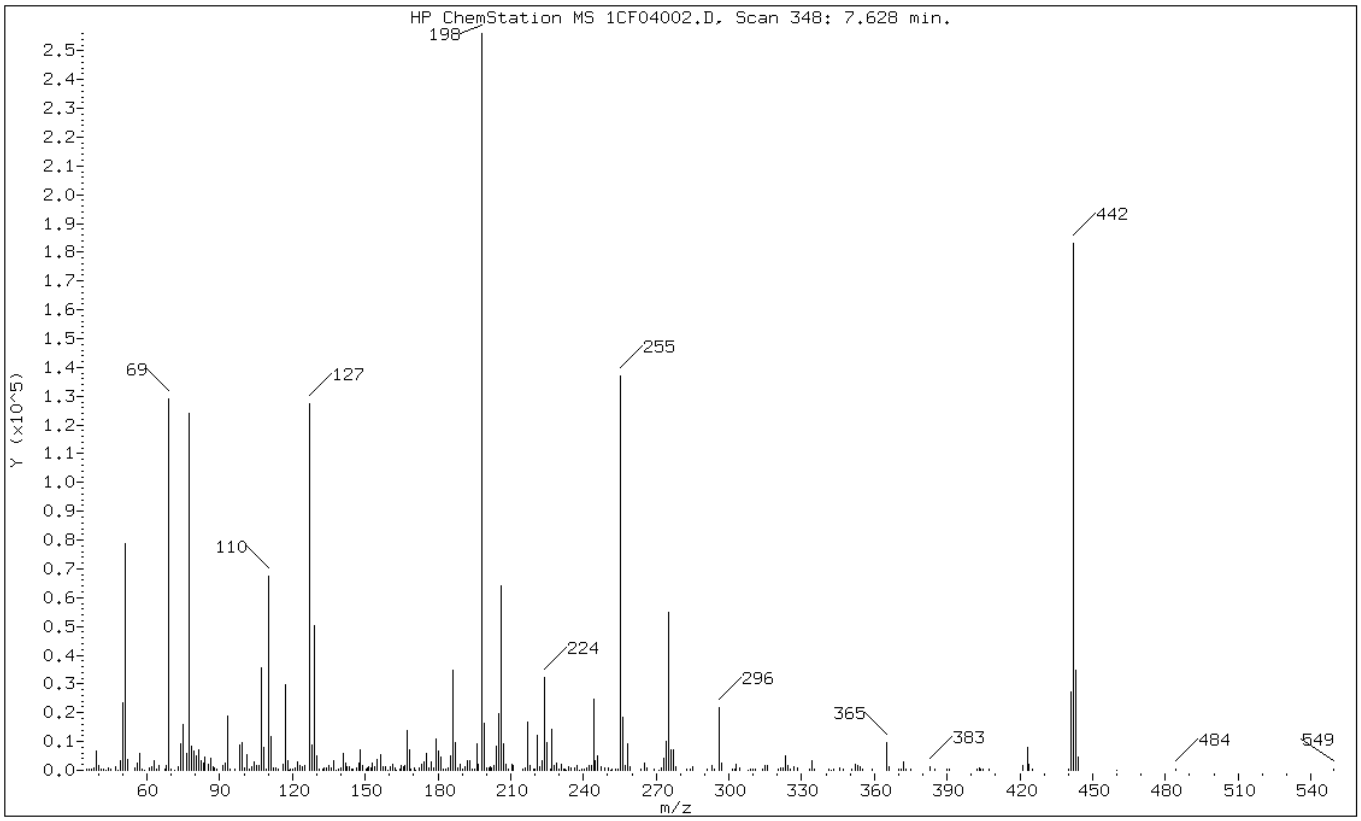
Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

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	30.73
68	Less than 2.00% of mass 69	0.67 (1.33)
69	Mass 69 relative abundance	50.36
70	Less than 2.00% of mass 69	0.24 (0.48)
127	10.00 - 80.00% of mass 198	49.77
197	Less than 2.00% of mass 198	0.77
442	Greater than 50.00% of mass 198	71.58
199	5.00 - 9.00% of mass 198	6.33
275	10.00 - 60.00% of mass 198	21.47
365	Greater than 1.00% of mass 198	3.80
441	Present, but less than mass 443	10.58
443	15.00 - 24.00% of mass 442	13.63 (19.05)

Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04002.D
Spectrum: HP ChemStation MS 1CF04002.D, Scan 348: 7.628 min.
Location of Maximum: 198.10
Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	361	119.20	266	192.10	3268	275.10	54968
36.30	420	120.20	510	193.00	3551	276.10	7185
37.20	539	121.00	767	194.10	435	277.00	7050
38.10	677	122.20	3042	195.10	571	278.10	1108
39.10	6590	123.10	1788	196.10	9347	282.80	542
40.00	1620	124.00	1071	196.80	1961	284.10	562
41.10	364	125.10	1819	198.10	256000	285.10	1280
42.00	374	127.10	127400	199.00	16198	290.80	226
43.10	200	128.10	8681	200.00	808	293.20	1532
44.00	999	129.10	50336	200.90	1004	294.00	266
45.20	342	130.00	4850	201.50	1343	296.10	21696
47.00	1240	131.00	370	202.10	957	297.10	2454
48.10	201	132.50	366	203.10	1820	301.20	517
49.00	3250	133.10	1002	204.20	8332	302.20	286
50.10	23496	134.10	879	205.10	19736	303.00	2107
51.20	78672	135.20	1835	206.10	64192	304.20	766
52.20	3689	136.10	956	207.10	9273	308.10	185
55.10	675	137.20	3165	208.00	2179	308.80	251
56.10	2394	138.20	207	209.20	528	310.10	439
57.10	5931	138.90	349	210.30	1886	311.10	545
58.00	617	140.10	683	211.10	1777	314.10	502
59.00	181	141.10	5709	215.00	455	315.00	1767
61.00	642	141.90	2333	216.10	758	316.00	1519
62.10	1441	142.60	1084	217.10	16816	320.20	389
63.10	3378	143.20	1110	218.10	1652	321.20	686
64.00	488	144.20	295	219.30	263	322.10	668
65.10	1646	145.10	375	219.90	331	323.10	4956
67.20	605	146.20	754	221.00	11961	324.10	1696
68.10	1717	147.20	2445	222.10	1055	325.20	454
69.10	128912	148.10	7272	223.10	3492	326.90	1242
70.10	625	149.00	1756	224.10	32128	328.20	640
71.20	162	150.40	443	225.10	9624	333.00	519
73.10	1100	151.10	999	226.20	624	334.10	3207
74.10	9010	151.50	1204	227.10	14278	335.20	485
75.10	15759	152.20	972	228.00	1639	341.10	383
76.10	5717	152.90	2374	229.10	2389	342.10	177
77.20	124048	154.10	1158	229.70	593	343.10	344
78.10	8259	155.10	3879	230.10	536	345.90	858
79.10	6776	156.10	5256	231.00	1903	347.10	388
80.10	4923	157.20	1182	231.90	278	350.80	264

81.10	7056	158.10	1340	232.40	361	352.10	1924
82.10	3184	159.10	198	233.00	152	353.20	1803
83.10	2646	160.10	1386	234.10	1442	354.10	1458
84.00	4629	161.20	2007	235.10	638	355.10	518
85.20	1976	162.10	746	236.10	1024	358.90	513
86.10	4093	163.00	158	237.20	1552	365.00	9717
87.10	1332	164.10	222	238.10	172	365.90	1091
88.00	811	165.00	1614	239.10	330	370.10	418
88.90	379	165.90	1249	240.10	309	371.20	364
91.20	1835	166.30	1549	241.10	764	372.10	2730
92.10	2315	167.10	13720	242.10	1593	373.20	563
93.10	18896	168.10	7099	243.10	1683	375.20	240
94.10	455	168.90	376	244.10	24888	382.90	1139
96.30	347	170.10	745	245.00	3423	384.70	237
98.10	8775	171.00	178	246.00	5098	389.70	304
99.10	9529	172.10	818	247.10	1461	391.00	445
100.10	1024	173.00	2072	249.00	815	402.10	443
101.10	5626	174.00	2967	250.20	800	403.20	731
102.00	296	175.10	5770	251.30	163	404.00	276
103.10	1404	176.20	1025	252.00	349	405.00	260
104.00	2862	177.10	2729	253.10	319	407.20	309
105.20	1779	178.20	724	254.10	468	421.00	1780
106.10	1484	179.00	10817	255.10	137088	423.10	7799
107.10	35728	180.20	6560	256.10	18424	423.90	2081
108.10	7786	181.20	4747	257.10	1601	425.10	260
109.00	584	182.10	566	258.00	9013	440.20	509
110.10	67632	183.00	355	259.00	1248	441.10	27088
111.10	11919	184.10	881	263.80	419	442.10	183232
111.90	878	185.20	5157	265.10	2521	443.10	34904
113.10	923	186.10	34784	266.10	715	444.10	4705
114.20	213	187.10	9755	269.10	228	460.00	161
116.10	2048	188.20	656	271.10	193	484.40	253
117.10	29592	189.10	1904	271.90	980	549.40	331
118.00	3396	190.00	388	273.00	4327		
118.80	168	191.00	1296	274.10	10261		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-JUN-2013 11:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.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

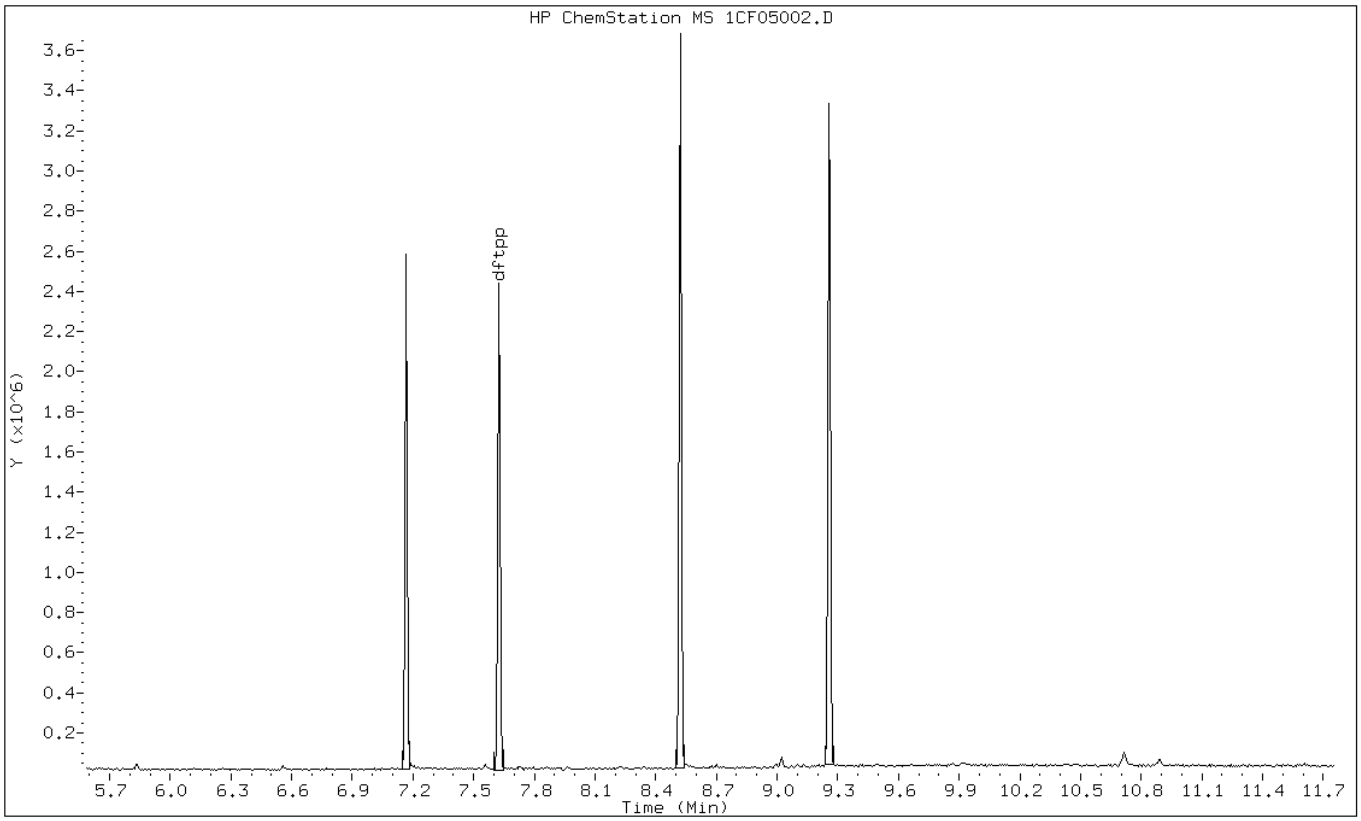
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.622	7.669	-0.047	198	275392			50.00- 0.00	100.00
7.622	7.669	-0.047	51	86888			10.00- 80.00	31.55
7.622	7.669	-0.047	68	1497			0.00- 2.00	1.25
7.622	7.669	-0.047	69	119824			0.00- 0.00	43.51
7.622	7.669	-0.047	70	211			0.00- 2.00	0.18
7.622	7.669	-0.047	127	132544			10.00- 80.00	48.13
7.622	7.669	-0.047	197	1882			0.00- 2.00	0.68
7.622	7.669	-0.047	442	243840			50.00- 0.00	88.54
7.622	7.669	-0.047	199	16277			5.00- 9.00	5.91
7.622	7.669	-0.047	275	69016			10.00- 60.00	25.06
7.622	7.669	-0.047	365	6480			1.00- 0.00	2.35
7.622	7.669	-0.047	441	34456			0.01- 99.99	75.35
7.622	7.669	-0.047	443	45728			15.00- 24.00	18.75

Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



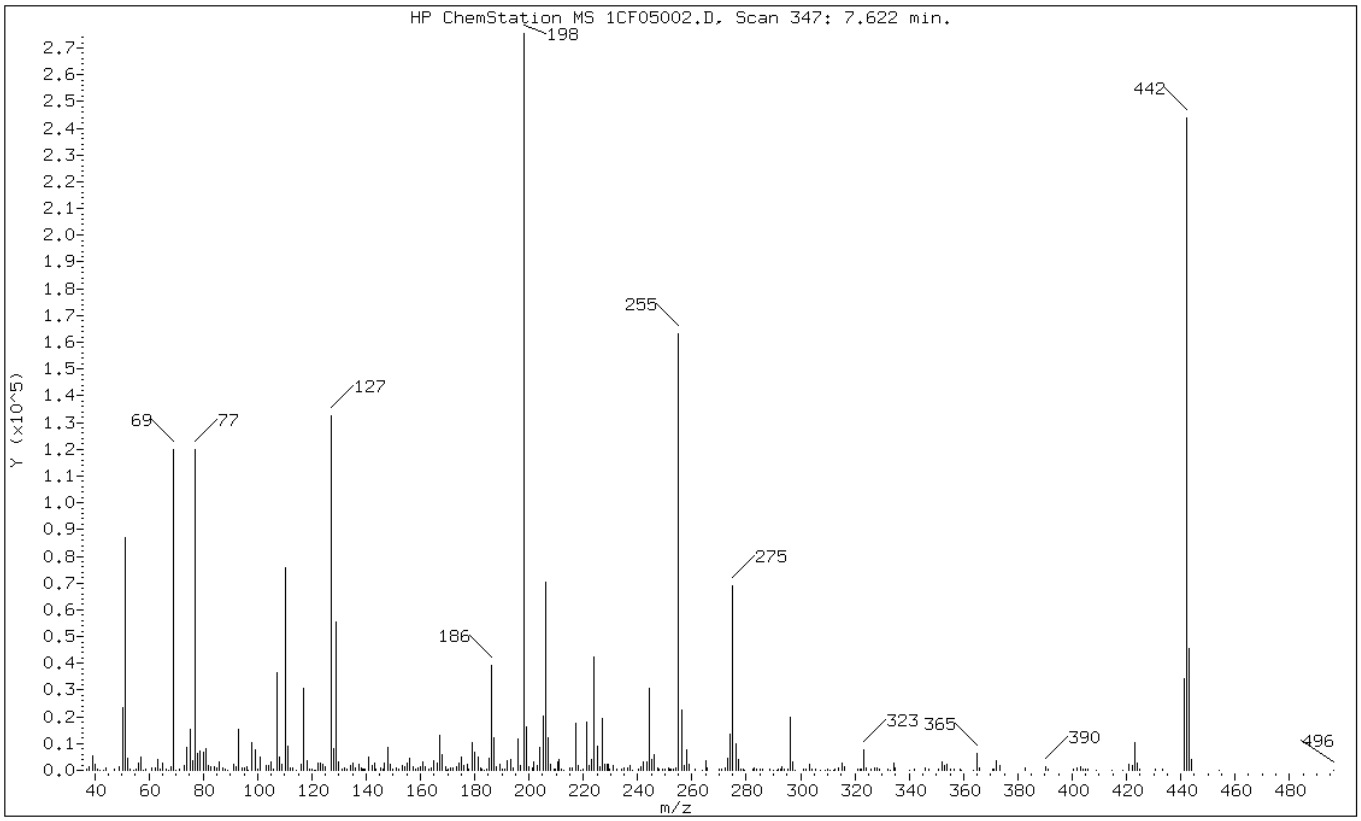
Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

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	31.55
68	Less than 2.00% of mass 69	0.54 (1.25)
69	Mass 69 relative abundance	43.51
70	Less than 2.00% of mass 69	0.08 (0.18)
127	10.00 - 80.00% of mass 198	48.13
197	Less than 2.00% of mass 198	0.68
442	Greater than 50.00% of mass 198	88.54
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	25.06
365	Greater than 1.00% of mass 198	2.35
441	Present, but less than mass 443	12.51
443	15.00 - 24.00% of mass 442	16.60 (18.75)

Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05002.D
Spectrum: HP ChemStation MS 1CF05002.D, Scan 347: 7.622 min.
Location of Maximum: 198.10
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	454	125.10	1382	204.10	8724	292.70	409
38.00	1270	127.10	132544	205.10	20472	293.10	1408
39.10	5224	128.10	8140	206.10	70504	293.80	273
40.00	2290	129.10	55256	207.20	12000	295.10	596
40.90	318	130.00	3365	208.10	2103	296.10	19840
42.10	190	131.20	605	209.10	426	296.90	3010
43.40	182	132.10	845	209.90	534	298.10	221
44.10	1044	132.80	316	210.60	3091	301.10	665
47.20	440	134.10	1698	211.10	3843	302.00	475
49.20	1487	135.00	2534	212.10	363	303.10	2129
50.20	23552	135.90	891	213.00	203	304.10	611
51.20	86888	136.20	889	215.00	1033	305.30	442
52.20	4480	137.20	2240	216.00	1121	307.50	157
53.10	459	138.10	913	217.10	17432	309.10	187
54.20	151	138.60	590	218.10	1866	309.80	313
55.10	569	139.10	451	219.20	188	310.90	186
56.10	2647	139.80	276	219.80	393	312.30	201
57.10	5030	141.10	5153	221.10	17880	312.80	650
57.90	171	142.20	1698	222.30	1687	314.00	1011
59.00	318	143.00	2532	223.10	3842	315.10	2737
61.10	704	143.80	331	224.10	42280	316.00	1253
62.20	1012	145.20	683	225.10	9093	321.10	642
63.20	4090	146.10	500	226.20	1344	321.80	387
64.10	668	146.90	2646	227.10	19352	322.20	257
65.00	2577	148.10	8694	228.00	2242	323.10	7549
66.20	529	149.10	2119	228.90	2088	324.10	1021
67.40	150	149.90	476	229.10	2083	326.10	296
68.00	1497	151.10	950	229.70	577	327.10	985
69.10	119824	152.10	535	231.10	1824	328.10	940
70.10	211	153.20	1655	232.10	273	329.10	400
71.10	442	154.20	1347	234.00	610	332.20	457
73.10	1854	155.10	2602	235.00	947	333.10	200
74.10	8466	156.10	4562	236.10	702	334.20	2858
75.10	15262	157.30	1243	237.00	2023	335.00	691
76.20	3798	158.10	509	238.00	223	340.20	190
77.20	119936	159.00	1070	240.10	521	341.90	541
78.10	6316	160.00	1282	241.00	1154	346.00	793
79.00	7102	161.10	3016	242.20	2993	347.20	288
80.10	6562	161.90	1283	243.20	3084	350.90	414
81.10	8306	163.10	553	244.20	30864	352.10	3108

82.10	1987	164.00	1115	245.20	4001	353.00	1618
83.00	1345	165.00	3439	246.00	5934	354.10	2246
84.00	1283	166.20	2705	247.20	773	355.00	397
85.10	1079	167.10	12928	247.90	511	356.40	237
86.10	2978	168.10	5904	249.10	548	358.60	246
87.20	917	169.10	1240	250.00	323	359.30	193
88.20	465	169.70	189	251.20	930	363.80	200
89.00	210	170.20	271	251.90	387	365.00	6480
91.10	2208	171.10	1103	252.40	335	366.00	1110
92.00	1489	172.00	1026	253.20	550	370.70	551
93.10	15362	173.10	1128	253.90	1094	371.20	423
94.20	1125	174.00	2928	255.10	163200	372.10	3442
95.30	895	175.10	4813	256.10	22584	373.20	1917
96.00	1147	176.10	2018	257.20	1761	382.90	1048
96.70	217	177.10	2181	258.10	7468	390.10	1403
98.10	10381	177.90	536	259.10	2064	391.30	376
99.10	7602	179.10	10287	261.00	444	400.40	264
100.10	378	180.10	6638	264.00	171	402.00	923
101.10	4781	181.10	4996	265.00	3529	403.00	1168
103.00	1914	182.10	971	265.80	855	403.90	306
104.10	1712	182.80	337	270.10	291	405.10	445
105.10	3284	183.60	221	271.10	292	406.00	289
106.00	571	184.40	451	272.10	971	408.90	171
107.10	36624	185.10	4667	273.10	4463	414.80	213
108.10	4800	186.10	39240	274.10	13517	418.80	168
109.10	2090	187.10	12075	275.10	69016	421.00	2167
110.10	75616	188.10	1156	276.20	10082	422.20	1633
111.10	9041	189.10	2301	277.10	4201	423.10	10250
112.20	1105	190.00	569	278.00	434	424.00	2586
113.10	686	191.00	662	278.90	306	425.00	472
114.40	166	192.10	3743	279.20	206	430.50	540
116.10	2144	193.10	4109	282.30	327	433.40	251
117.10	30584	194.20	1064	283.10	811	441.10	34456
118.10	3574	196.10	11577	284.00	593	442.10	243840
119.10	353	196.90	1882	284.90	649	443.10	45728
120.10	303	198.10	275392	285.30	397	444.10	4275
120.90	196	199.10	16277	286.10	326	454.00	159
121.30	151	200.10	1213	288.80	329	496.30	194
122.10	2587	201.10	786	290.00	187		
123.10	2859	201.60	3074	291.20	175		
124.00	2243	202.90	1808	291.80	440		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-MAY-2013 11:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

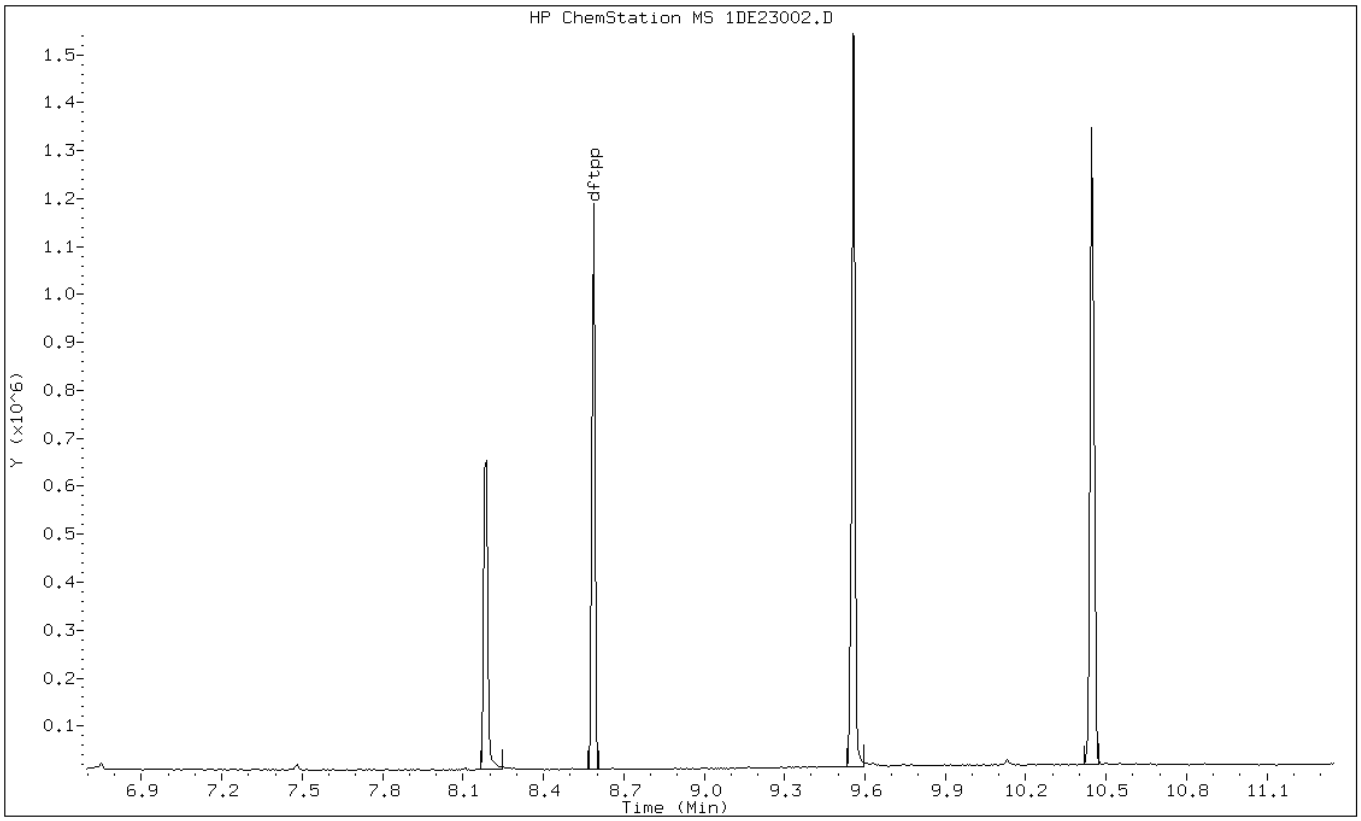
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.587	8.532	0.055	198	121784			50.00- 0.00	100.00
8.587	8.532	0.055	51	67440			10.00- 80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	69	65104			0.00- 0.00	53.46
8.587	8.532	0.055	70	565			0.00- 2.00	0.87
8.587	8.532	0.055	127	68776			10.00- 80.00	56.47
8.587	8.532	0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	442	65752			50.00- 0.00	53.99
8.587	8.532	0.055	199	8068			5.00- 9.00	6.62
8.587	8.532	0.055	275	31712			10.00- 60.00	26.04
8.587	8.532	0.055	365	4846			1.00- 0.00	3.98
8.587	8.532	0.055	441	9492			0.01- 99.99	78.47
8.587	8.532	0.055	443	12096			15.00- 24.00	18.40

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



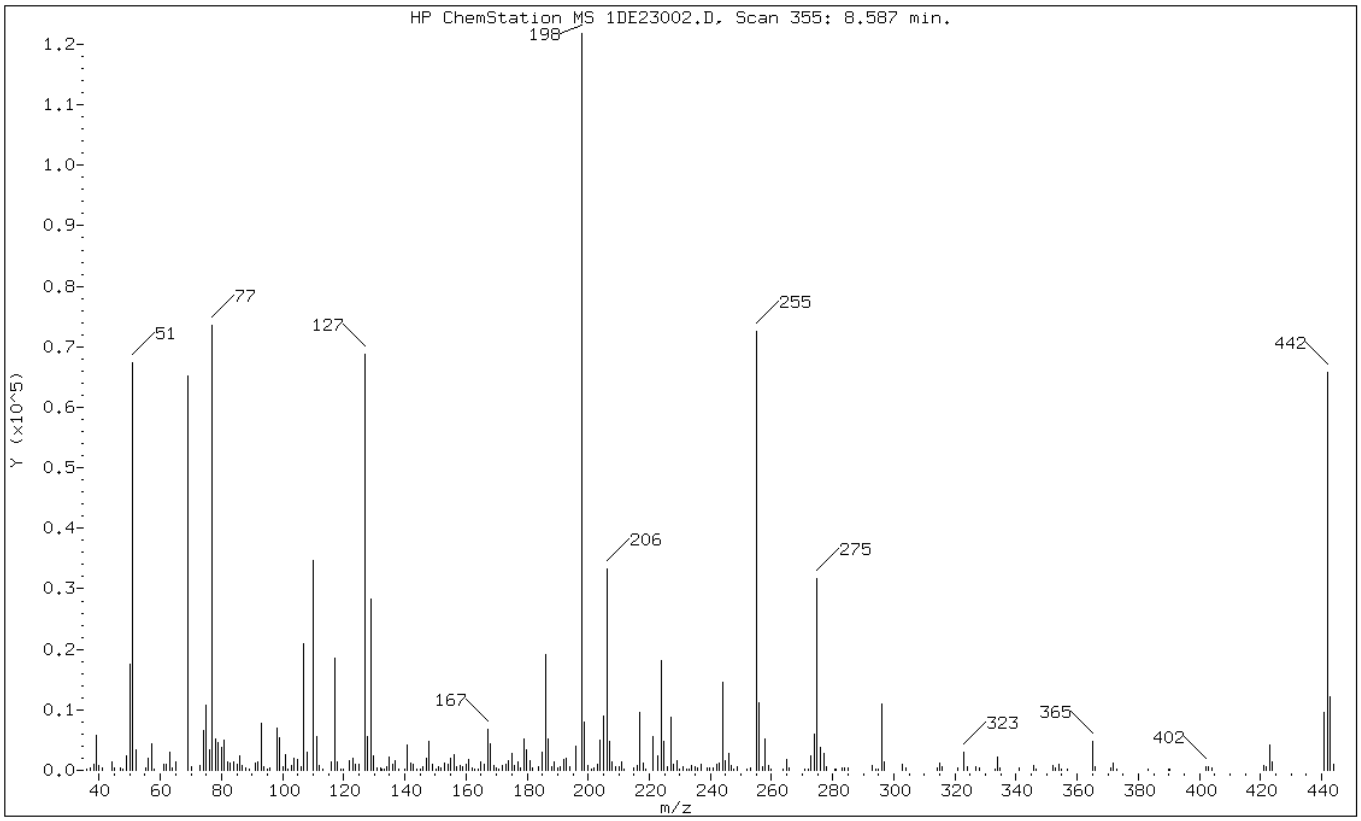
Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.46
70	Less than 2.00% of mass 69	0.46 (0.87)
127	10.00 - 80.00% of mass 198	56.47
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.99
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	26.04
365	Greater than 1.00% of mass 198	3.98
441	Present, but less than mass 443	7.79
443	15.00 - 24.00% of mass 442	9.93 (18.40)

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052313_pahIC.b\1DE23002.D
Spectrum: HP ChemStation MS 1DE23002.D, Scan 355: 8.587 min.
Location of Maximum: 197.90
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	249	117.90	1357	186.00	19144	263.70	171
37.10	370	118.90	263	186.90	5217	264.90	1873
38.10	973	120.00	223	187.90	612	265.80	383
39.00	5723	121.90	1665	188.90	1329	271.00	186
40.00	747	122.90	2073	189.90	307	271.90	293
41.00	364	124.00	1000	191.00	596	272.90	2302
44.00	1452	125.00	929	191.90	1822	273.90	5948
45.10	334	127.00	68776	192.90	2065	274.90	31712
46.90	480	127.90	5565	194.00	565	275.90	3785
47.80	238	128.90	28208	195.90	3944	277.00	2800
49.00	2358	129.90	2448	197.90	121784	277.90	659
50.00	17600	131.10	380	198.90	8068	280.80	191
51.00	67440	132.00	342	199.90	824	281.10	192
52.00	3328	132.60	152	201.10	276	283.00	400
55.10	409	133.10	215	201.70	467	283.90	307
56.00	2025	133.90	654	203.00	968	284.90	387
57.00	4381	134.90	2109	203.90	5020	293.00	825
58.00	217	136.00	922	205.00	9032	294.00	151
61.00	1013	136.90	1647	206.00	33240	294.90	243
62.00	913	138.00	265	207.00	4794	295.90	11046
63.00	2951	139.90	239	207.90	1427	296.90	1346
64.00	397	140.90	4179	208.80	681	302.90	926
65.00	1343	141.90	1118	210.00	552	304.00	330
69.00	65104	142.90	1031	210.90	1454	314.10	375
70.00	565	144.00	240	211.80	223	314.90	1098
73.00	790	145.10	221	214.90	414	315.90	571
74.00	6651	145.90	520	216.00	838	320.90	352
75.00	10782	147.00	2016	216.90	9622	323.00	2997
76.00	3422	148.00	4753	217.90	1129	323.90	666
77.00	73512	148.90	1096	218.80	154	326.80	600
78.00	5136	150.10	273	221.00	5672	328.00	304
79.00	4645	150.90	581	222.90	2421	333.00	236
80.00	3799	151.70	317	224.00	18232	333.90	2273
81.00	4928	152.90	1222	224.90	4829	334.90	490
82.00	1382	154.00	956	226.00	615	341.00	350
82.90	1163	155.00	1904	226.90	8729	345.80	800
83.90	1444	156.00	2641	227.90	1012	346.70	161
85.00	909	157.00	572	228.90	1680	351.90	800
85.90	2381	158.00	809	229.80	268	352.80	433
86.90	728	159.00	666	230.90	693	354.00	1029

87.90	331	160.00	933	232.10	157	354.90	170
89.00	285	160.90	1756	233.00	179	356.90	162
91.00	1150	162.00	462	233.90	756	365.00	4846
91.90	1474	162.80	203	235.00	558	365.90	560
92.90	7822	164.10	158	235.90	487	371.10	322
93.90	567	164.90	1406	236.90	950	371.90	1258
94.90	179	166.00	940	238.90	325	372.80	192
96.00	396	167.00	6772	239.80	300	373.10	180
98.00	6996	167.90	4389	241.00	416	383.10	221
98.90	5360	169.00	764	242.00	904	390.00	192
100.00	551	170.00	342	242.90	1190	390.30	165
100.90	2607	170.80	216	244.00	14621	402.00	625
101.90	286	171.90	754	244.90	1630	402.80	604
102.90	815	172.90	903	245.90	2736	403.90	416
103.90	1983	174.00	1510	246.90	832	420.90	877
105.00	1804	175.00	2756	247.70	160	422.00	504
106.00	509	175.90	753	248.90	508	422.90	4151
107.00	20912	177.00	1365	252.10	158	423.90	1358
107.90	2991	177.90	464	253.00	393	440.90	9492
109.90	34672	178.90	5168	254.90	72544	441.90	65752
111.00	5529	179.90	3472	255.90	11148	442.90	12096
111.90	765	180.90	1571	257.00	697	443.90	1083
113.00	248	181.90	303	257.90	5230		
116.00	1418	183.90	514	258.90	884		
117.00	18560	185.00	2991	260.00	157		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUN-2013 10:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.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

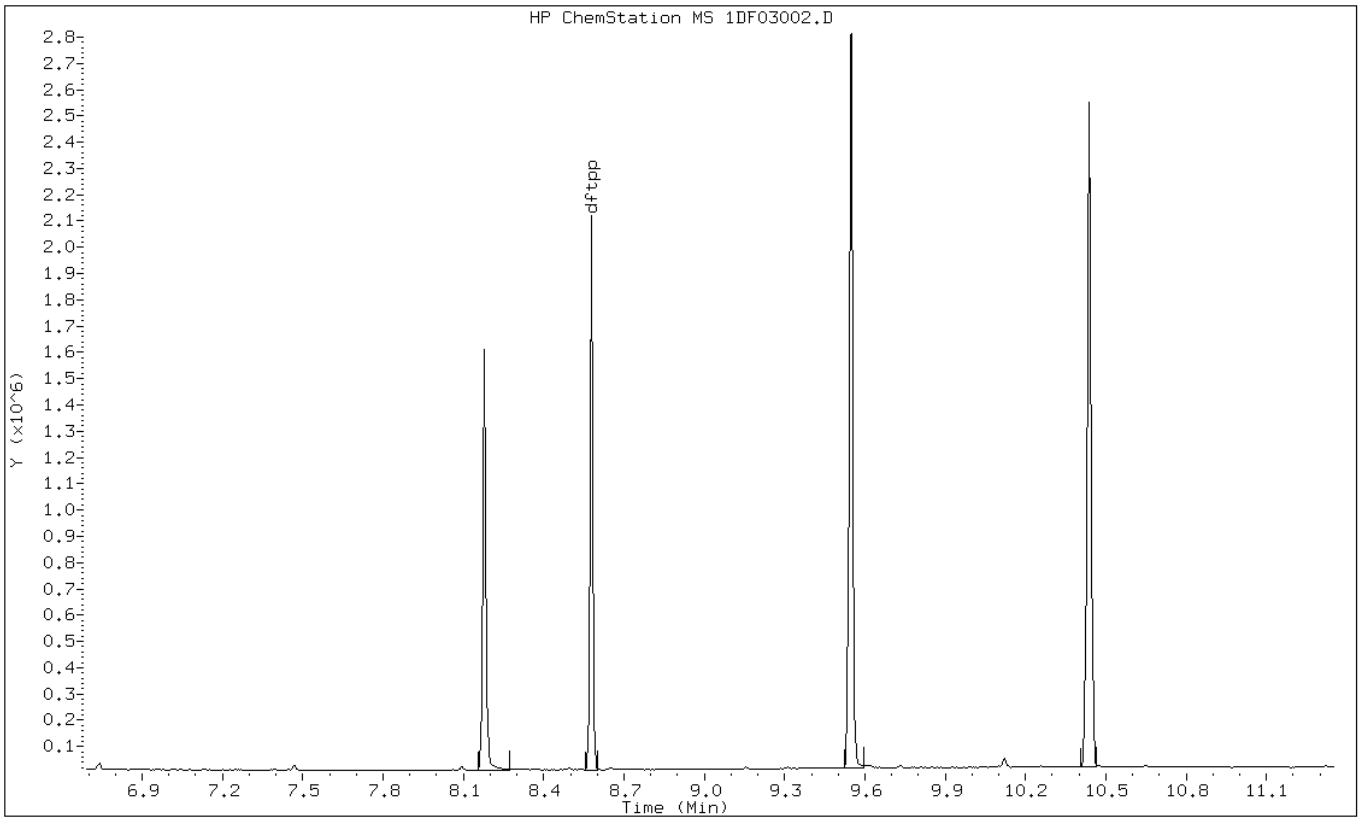
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.578	8.532	0.046	198	232960			50.00- 0.00	100.00
8.578	8.532	0.046	51	107192			10.00- 80.00	46.01
8.578	8.532	0.046	68	0	0.0	0.0	0.00- 2.00	0.00
8.578	8.532	0.046	69	108736			0.00- 0.00	46.68
8.578	8.532	0.046	70	529			0.00- 2.00	0.49
8.578	8.532	0.046	127	122064			10.00- 80.00	52.40
8.578	8.532	0.046	197	0	0.0	0.0	0.00- 2.00	0.00
8.578	8.532	0.046	442	134144			50.00- 0.00	57.58
8.578	8.532	0.046	199	16209			5.00- 9.00	6.96
8.578	8.532	0.046	275	60000			10.00- 60.00	25.76
8.578	8.532	0.046	365	8034			1.00- 0.00	3.45
8.578	8.532	0.046	441	19392			0.01- 99.99	77.27
8.578	8.532	0.046	443	25096			15.00- 24.00	18.71

Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



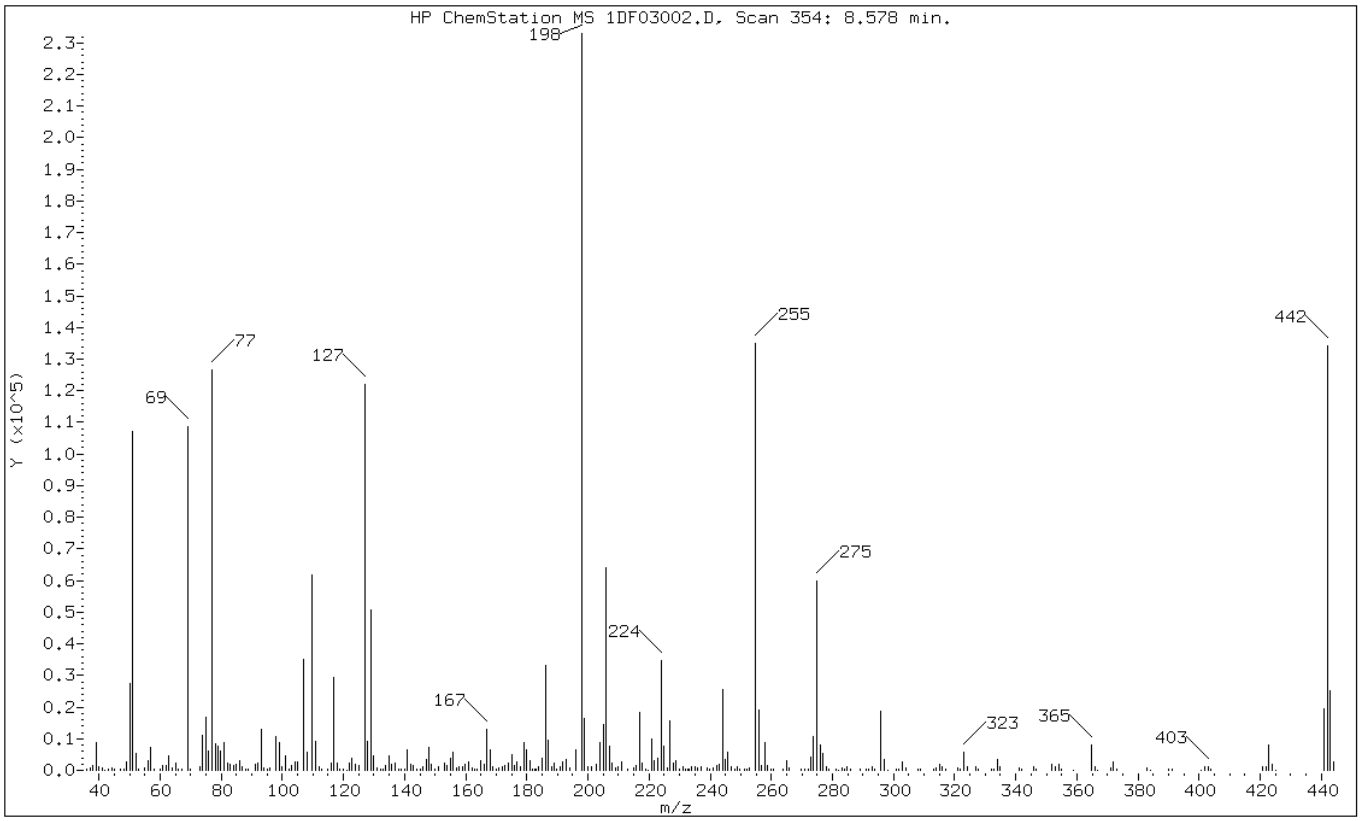
Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.68
70	Less than 2.00% of mass 69	0.23 (0.49)
127	10.00 - 80.00% of mass 198	52.40
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	57.58
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 60.00% of mass 198	25.76
365	Greater than 1.00% of mass 198	3.45
441	Present, but less than mass 443	8.32
443	15.00 - 24.00% of mass 442	10.77 (18.71)

Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03002.D
Spectrum: HP ChemStation MS 1DF03002.D, Scan 354: 8.578 min.
Location of Maximum: 197.90
Number of points: 288

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	338	119.90	546	194.00	801	278.00	1001
37.00	595	121.00	167	195.90	6555	278.90	219
38.10	1381	121.90	2292	197.90	232960	281.00	302
39.10	8734	122.90	3670	198.90	16209	282.00	189
40.00	1317	123.90	1777	199.90	1311	283.00	697
41.10	772	124.90	1670	201.30	1054	283.90	449
42.00	178	127.00	122064	202.90	1932	284.90	1034
42.90	394	127.90	9091	203.90	8682	285.80	192
44.10	657	128.90	50808	205.00	14417	288.90	201
45.10	380	129.90	4445	206.00	63872	290.90	204
47.00	402	131.00	865	207.00	7690	291.80	203
48.10	263	132.00	536	207.90	2159	292.90	1020
49.00	2641	133.00	280	208.90	791	294.00	311
50.00	27416	133.90	1499	210.00	1071	295.90	18528
51.00	107192	134.90	4592	211.00	2631	296.90	3258
52.00	5277	135.90	1757	213.10	193	298.00	189
53.00	317	137.00	2315	214.90	812	300.90	272
55.10	675	138.00	376	215.90	1448	301.80	196
56.00	3234	139.00	272	216.90	18128	303.00	2532
57.00	7402	139.90	537	217.90	2285	303.90	654
58.00	371	140.90	6472	218.80	228	308.00	420
60.10	194	142.00	2072	219.60	157	308.80	235
61.00	1552	142.90	1449	220.90	10097	313.00	191
62.00	1652	143.90	512	221.80	2982	313.90	853
63.00	4547	145.00	411	222.90	3901	315.00	2020
64.00	743	146.00	1165	224.00	34824	315.90	1204
65.00	2284	147.00	3289	225.00	7780	317.10	195
66.00	298	147.90	7297	225.90	931	320.90	639
67.10	316	148.90	1730	226.90	15453	321.90	293
69.00	108736	150.00	415	227.90	2341	323.00	5835
70.00	529	151.00	1111	228.90	3194	324.00	1115
73.00	1209	152.90	2120	229.90	341	326.90	1107
74.00	11231	153.90	1483	231.00	1110	327.90	437
75.00	16896	154.90	3934	232.10	197	331.90	418
76.00	6130	155.90	5890	232.80	295	333.00	568
77.00	126472	156.90	864	233.10	285	334.00	3470
78.00	8371	157.90	1064	233.80	988	335.00	1085
79.00	7744	158.90	962	234.90	1085	341.00	813
79.90	6278	159.90	1749	235.90	876	342.00	260
81.00	8814	161.00	2685	236.90	1149	345.90	1258

82.00	2327	162.00	846	238.90	780	346.80	250
83.10	1991	162.90	373	239.80	467	351.90	1859
83.90	1533	163.80	555	240.90	745	352.90	987
84.90	1737	164.80	2866	242.00	1620	354.00	1888
85.90	3110	166.00	1876	243.00	1788	354.90	299
87.00	1203	166.90	13062	244.00	25576	359.00	171
87.90	549	167.90	6318	244.90	3357	364.90	8034
89.00	283	168.90	1169	245.90	5899	365.80	1000
91.00	1911	170.00	412	247.00	1147	366.90	188
91.90	2383	171.00	664	248.00	195	371.00	622
93.00	12969	171.90	1098	248.90	1159	371.90	2695
94.00	865	172.90	1522	249.80	197	372.90	421
95.00	235	174.00	2437	251.10	210	382.90	609
95.90	860	175.00	4845	252.00	414	383.90	166
98.00	10585	175.90	1393	252.90	770	389.90	321
99.00	8695	176.90	2616	254.90	135040	391.00	416
99.90	961	177.90	1080	255.90	19064	400.80	170
101.00	4504	178.90	8740	256.90	1369	401.90	1159
102.10	250	179.90	6425	257.90	8849	402.90	1176
102.90	1439	180.90	3118	258.90	1681	403.90	370
104.00	2789	182.00	370	259.90	258	420.90	1048
105.00	2785	182.70	285	260.80	228	421.90	1053
107.00	35112	183.00	254	263.70	299	422.90	8010
108.00	5730	183.90	1035	265.00	3044	423.90	1859
109.90	61720	185.00	3909	265.90	755	424.90	186
110.90	9299	186.00	33120	269.80	295	440.90	19392
112.00	1242	187.00	9679	270.90	334	441.90	134144
112.90	434	188.00	1154	272.00	414	442.90	25096
114.90	303	188.90	2392	272.90	4126	444.00	2546
115.90	2110	189.80	390	273.90	10792		
116.90	29392	191.00	1137	274.90	60000		
117.90	2309	191.90	2757	275.90	7922		
118.90	396	193.00	3312	276.90	5498		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-JUN-2013 11:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.570	8.532	0.038	198	159360			50.00- 0.00	100.00
8.570	8.532	0.038	51	49288			10.00- 80.00	30.93
8.570	8.532	0.038	68	0	0.0	0.0	0.00- 2.00	0.00
8.570	8.532	0.038	69	54176			0.00- 0.00	34.00
8.570	8.532	0.038	70	373			0.00- 2.00	0.69
8.570	8.532	0.038	127	72328			10.00- 80.00	45.39
8.570	8.532	0.038	197	0	0.0	0.0	0.00- 2.00	0.00
8.570	8.532	0.038	442	142016			50.00- 0.00	89.12
8.570	8.532	0.038	199	9993			5.00- 9.00	6.27
8.570	8.532	0.038	275	47888			10.00- 60.00	30.05
8.570	8.532	0.038	365	7139			1.00- 0.00	4.48
8.570	8.532	0.038	441	21488			0.01- 99.99	80.47
8.570	8.532	0.038	443	26704			15.00- 24.00	18.80

Data File: 1DF05002.D

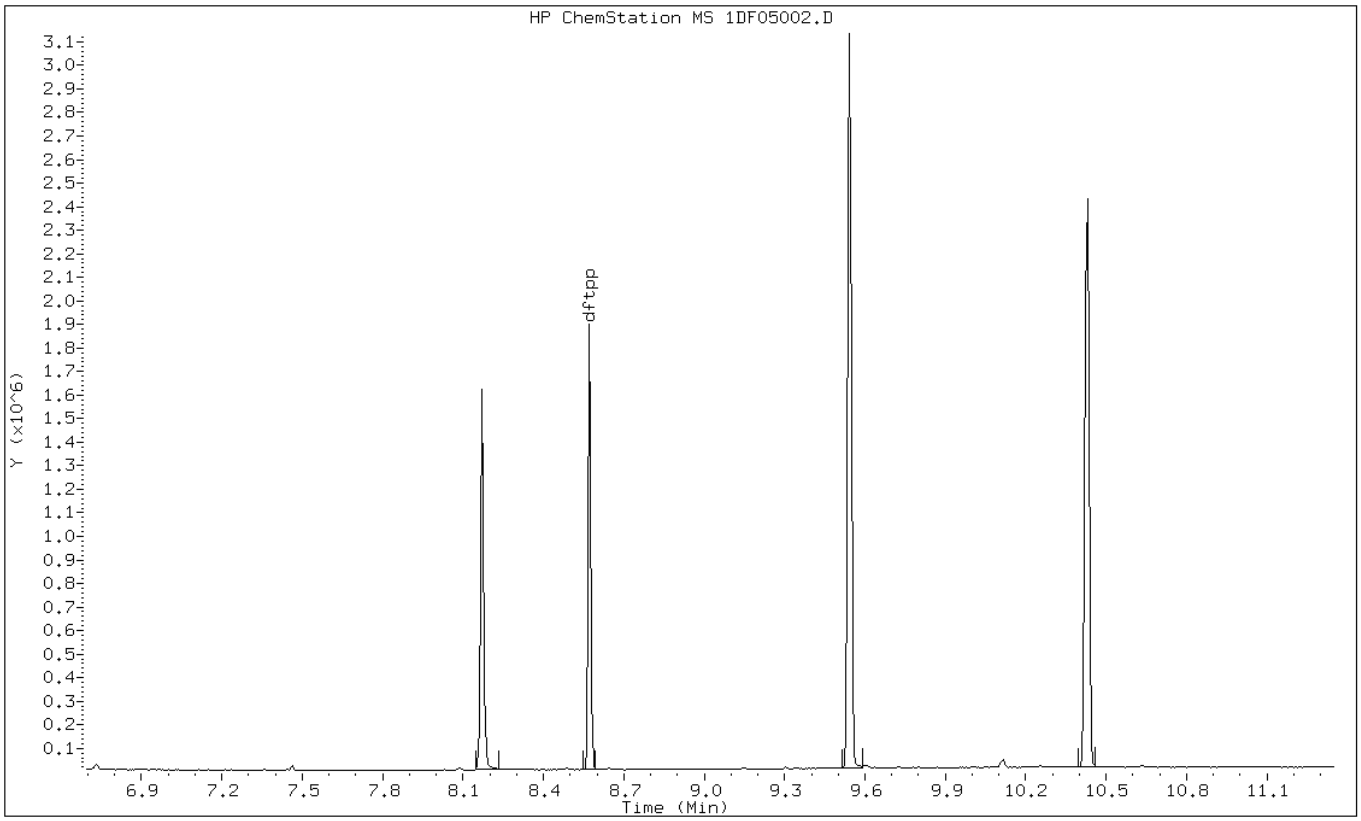
Date: 05-JUN-2013 11:38

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



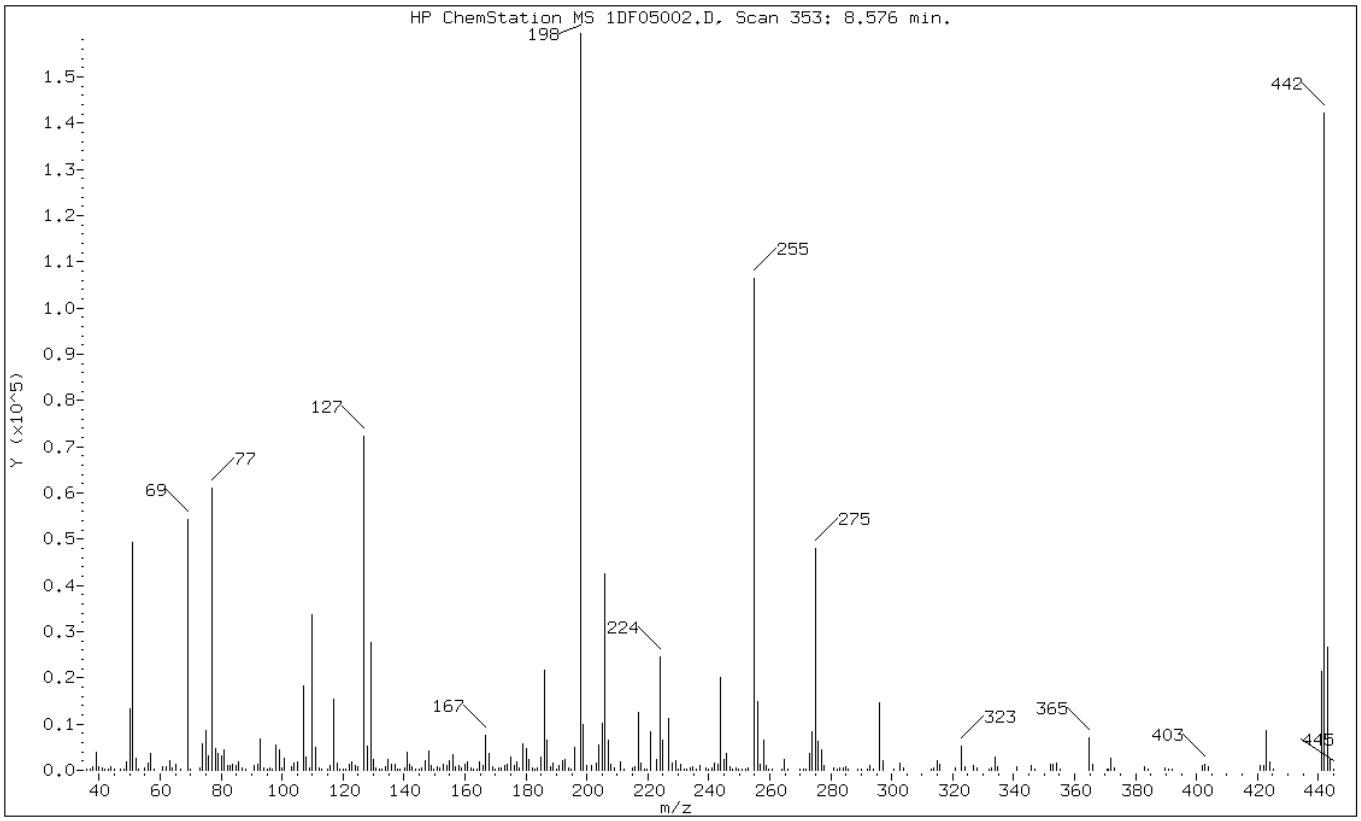
Data File: 1DF05002.D

Date: 05-JUN-2013 11:38

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	30.93
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.00
70	Less than 2.00% of mass 69	0.23 (0.69)
127	10.00 - 80.00% of mass 198	45.39
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	89.12
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 60.00% of mass 198	30.05
365	Greater than 1.00% of mass 198	4.48
441	Present, but less than mass 443	13.48
443	15.00 - 24.00% of mass 442	16.76 (18.80)

Data File: 1DF05002.D

Date: 05-JUN-2013 11:38

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05002.D
Spectrum: HP ChemStation MS 1DF05002.D, Scan 353: 8.576 min.
Location of Maximum: 197.90
Number of points: 275

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	270	118.00	1436	188.00	770	271.10	340
37.00	282	118.90	241	188.90	1626	271.90	354
38.00	724	120.10	259	190.10	298	272.90	3711
39.00	3859	120.90	151	190.90	997	274.00	8412
40.00	753	121.90	1357	191.90	2151	274.90	47888
41.10	466	122.90	1929	192.90	2273	275.90	6382
41.90	203	124.00	928	193.90	552	277.00	4492
43.00	298	125.00	682	194.90	322	277.90	928
44.00	702	127.00	72328	195.90	4897	280.90	401
45.00	218	128.00	5161	197.90	159360	282.00	183
47.00	294	129.00	27632	198.90	9993	283.00	537
48.20	223	129.90	2252	199.90	961	284.00	434
49.00	1767	130.90	493	201.40	1036	284.90	810
50.00	13235	131.90	313	202.90	1510	285.80	171
51.00	49288	132.80	227	203.90	5538	288.90	338
52.00	2619	133.90	881	204.90	10124	290.00	225
52.90	225	134.90	2342	206.00	42504	292.00	213
55.00	449	136.00	1178	207.00	6478	292.90	1083
55.90	1516	137.00	1307	208.00	1412	294.00	375
57.00	3532	137.90	347	208.90	594	295.90	14641
58.00	162	138.80	237	211.00	1872	297.00	2166
60.90	750	140.10	410	212.20	188	300.90	297
62.00	660	141.00	3917	214.90	509	302.90	1616
63.00	2109	141.90	1206	215.80	840	303.90	576
63.90	433	142.80	882	216.90	12452	313.00	158
65.00	1389	144.00	267	217.90	1483	313.90	615
66.90	347	144.90	269	218.80	241	314.90	1969
69.00	54176	145.90	556	219.70	207	315.90	1210
69.90	373	147.00	2157	220.90	8454	320.90	509
73.00	644	148.00	4281	222.90	2423	323.00	5109
74.00	5657	148.90	950	224.00	24640	324.00	812
75.00	8664	149.90	315	225.00	6531	326.90	1022
76.00	3220	150.90	661	226.90	11208	327.90	626
77.00	61040	151.80	490	227.90	1598	331.90	237
78.00	4719	152.90	1398	229.00	2156	332.90	612
79.00	3672	154.00	923	229.90	286	333.90	2850
80.00	3062	154.90	2163	230.90	1223	334.90	698
81.00	4525	156.00	3280	232.00	212	341.00	693
82.00	1085	156.90	670	232.80	238	345.90	1161
83.00	1161	157.90	915	233.90	612	346.80	257

83.90	1175	158.90	543	234.80	688	352.00	1423
85.00	956	159.90	1203	235.80	381	352.90	1228
85.90	1881	160.90	1814	236.90	976	354.00	1513
87.00	635	162.00	608	238.90	405	355.10	265
88.00	292	162.90	205	239.90	274	364.90	7139
90.90	1155	164.10	161	241.00	650	365.80	1250
92.00	1228	164.90	1870	242.00	1462	370.70	277
92.90	6834	166.00	1036	243.00	1206	371.00	340
94.10	568	166.90	7525	244.00	20128	371.90	2685
95.00	260	168.00	3730	245.00	2241	373.00	607
95.90	473	169.10	669	245.90	3694	383.00	740
96.80	169	170.00	291	246.90	855	384.00	313
98.00	5520	170.90	485	247.80	209	389.80	444
99.00	4554	172.00	633	248.90	647	391.00	377
99.90	515	172.90	998	249.80	253	391.90	171
100.90	2513	174.00	1382	250.90	183	401.90	1050
102.90	863	175.00	2783	252.00	247	402.90	1354
103.90	1519	176.10	1015	252.90	439	403.80	675
105.00	1733	176.90	1743	254.90	106472	420.90	1020
107.00	18160	177.90	545	255.90	14796	421.90	960
107.90	2860	178.90	5788	257.00	1336	422.90	8505
108.90	621	180.00	4596	257.90	6489	423.90	1712
109.90	33768	180.90	2249	258.90	1016	425.10	188
110.90	5068	182.00	491	259.70	152	441.00	21488
112.00	630	182.90	204	261.00	191	441.90	142016
113.00	239	183.90	486	263.90	235	442.90	26704
114.90	164	185.00	2771	264.90	2404	443.90	2324
115.90	916	186.00	21736	265.90	319	445.00	191
116.90	15474	187.00	6574	269.90	179		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: MB 660-137947/1-A

Matrix: Solid | Lab File ID: 1DF05006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.01(g) | Date Analyzed: 06/05/2013 13:02

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.: 138106 | 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\1D060513.b\1DF05006.D
Lab Smp Id: mb 660-137947/1-a
Inj Date : 05-JUN-2013 13:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-137947/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.261	6.265	(1.000)	3666651	40.0000	
*	7 Acenaphthene-d10	164	7.936	7.934	(1.000)	1997867	40.0000	
*	11 Phenanthrene-d10	188	9.193	9.191	(1.000)	3107850	40.0000	
$	15 o-Terphenyl	230	9.499	9.503	(1.033)	383836	8.43024	560
*	19 Chrysene-d12	240	11.549	11.553	(1.000)	2518522	40.0000	
*	24 Perylene-d12	264	13.453	13.457	(1.000)	2463253	40.0000	
	12 Phenanthrene	178	9.211	9.215	(1.002)	4405	0.05233	3.5(Q)

QC Flag Legend

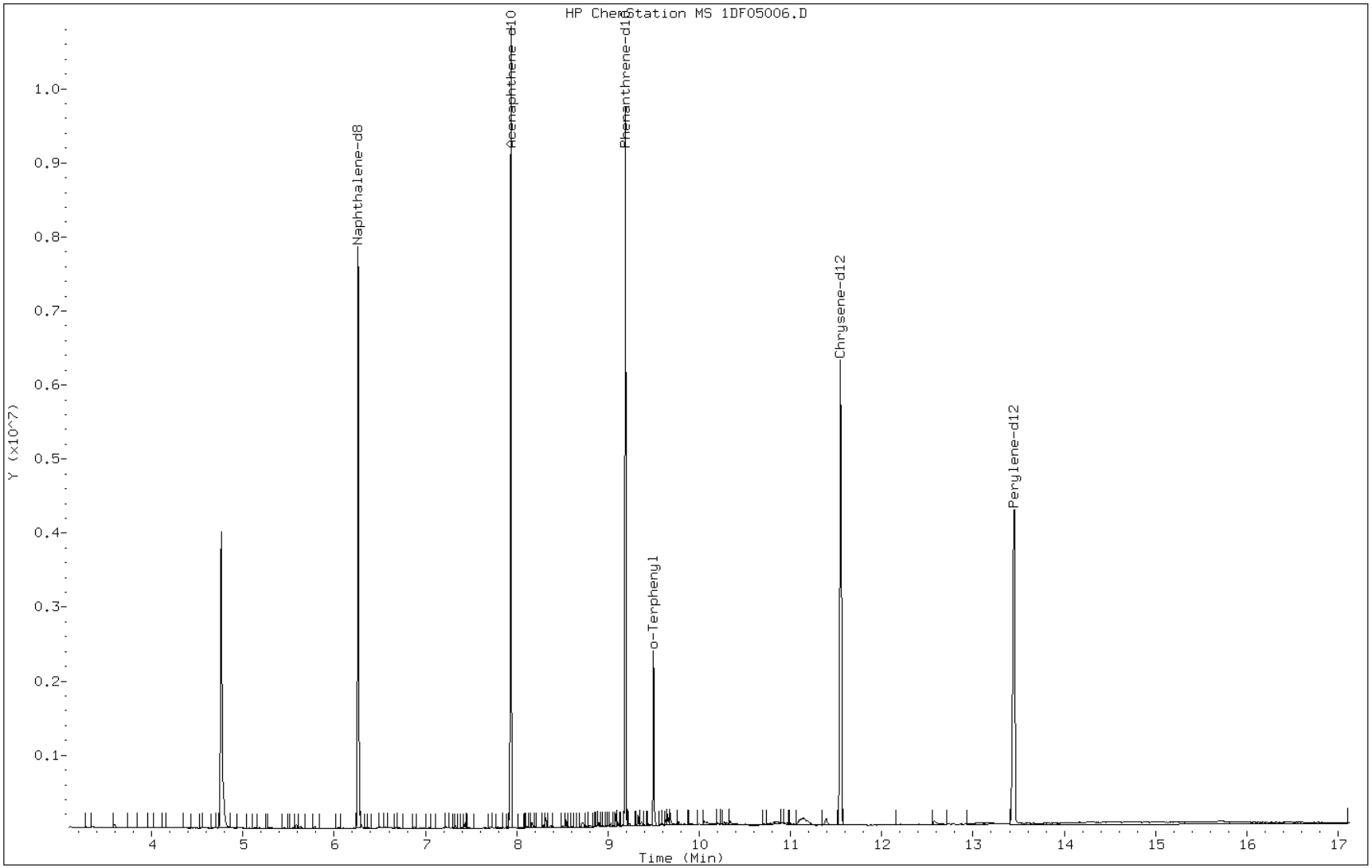
Q - Qualifier signal failed the ratio test.

Data File: 1DF05006.D

Date: 05-JUN-2013 13:02

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-137947/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: MB 660-137975/1-A

Matrix: Solid | Lab File ID: 1DF03017.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 14.99(g) | Date Analyzed: 06/03/2013 18:26

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.: 138011 | 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	6.92	J	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03017.D
Lab Smp Id: mb 660-137975/1-a
Inj Date : 03-JUN-2013 18:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-137975/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16 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	6.272	6.278	(1.000)	3456782	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1935400	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3051369	40.0000	
$ 15 o-Terphenyl	230	9.509	9.509	(1.033)	405243	9.06515	600
* 19 Chrysene-d12	240	11.560	11.566	(1.000)	2809734	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	3127100	40.0000	
2 Naphthalene	128	6.295	6.295	(1.004)	3612	0.04237	2.8(QM)
12 Phenanthrene	178	9.216	9.221	(1.001)	8577	0.10379	6.9
16 Fluoranthene	202	10.197	10.203	(1.108)	2898	0.03428	2.3

QC Flag Legend

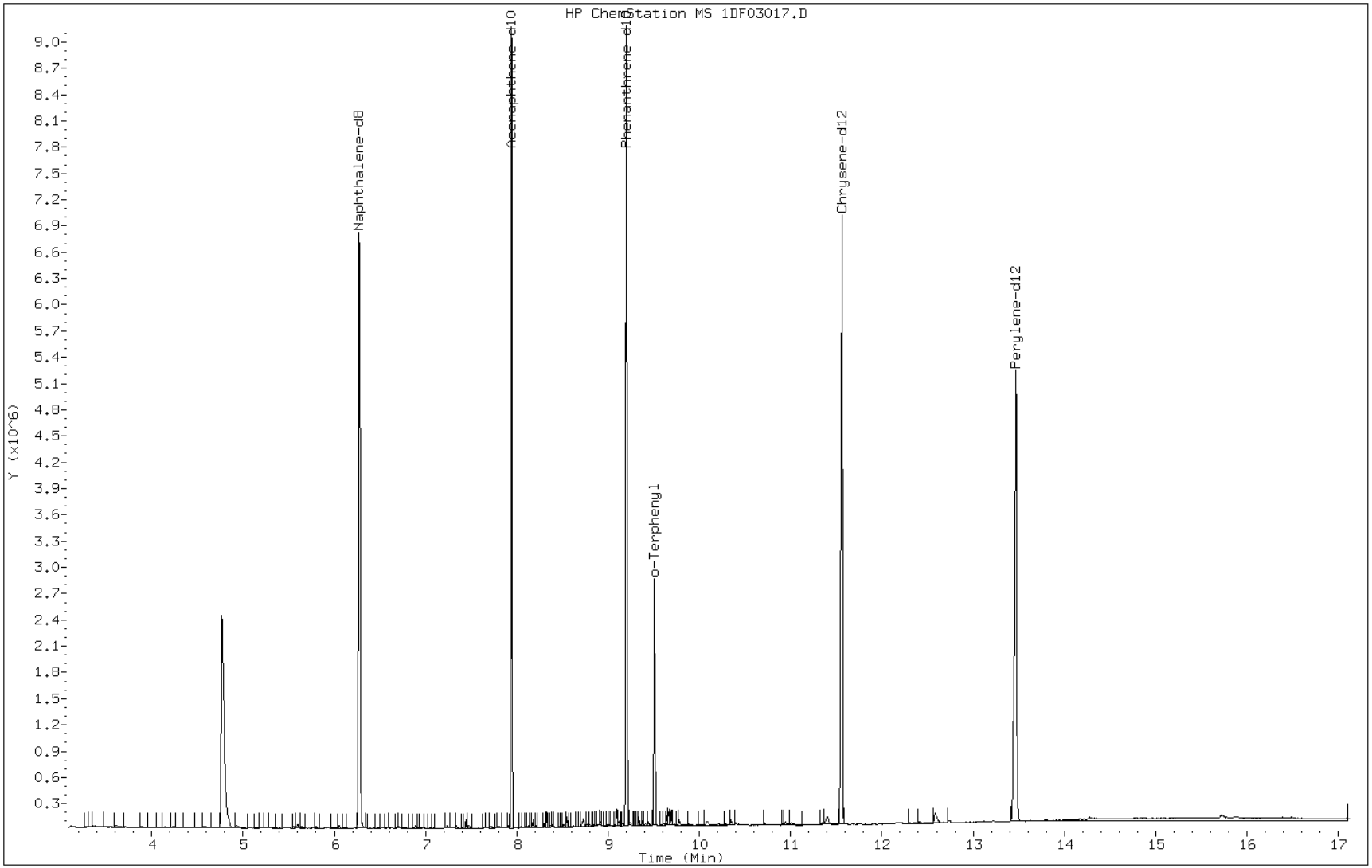
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF03017.D

Date: 03-JUN-2013 18:26

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-137975/1-a Operator: SCC



Data File: 1DF03017.D

Date: 03-JUN-2013 18:26

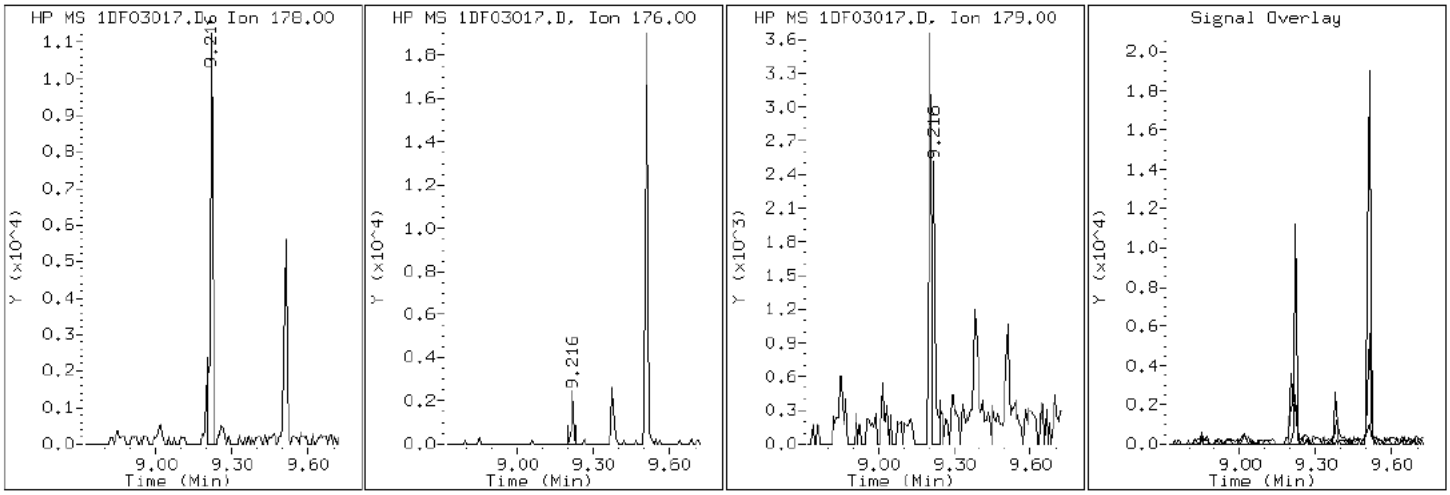
Client ID:

Instrument: BSMSD.i

Sample Info: mb 660-137975/1-a

Operator: SCC

12 Phenanthrene



Manual Integration Report

Data File: 1DF03017.D
Inj. Date and Time: 03-JUN-2013 18:26
Instrument ID: BSMSD.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 06/04/2013

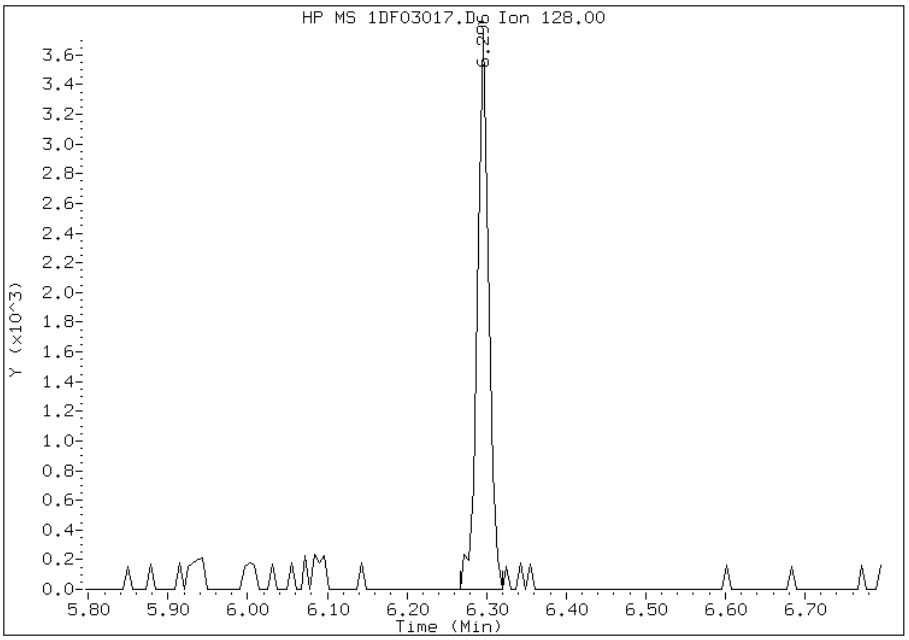
Processing Integration Results

RT: 6.30

Response: 3694

Amount: 0

Conc: 3



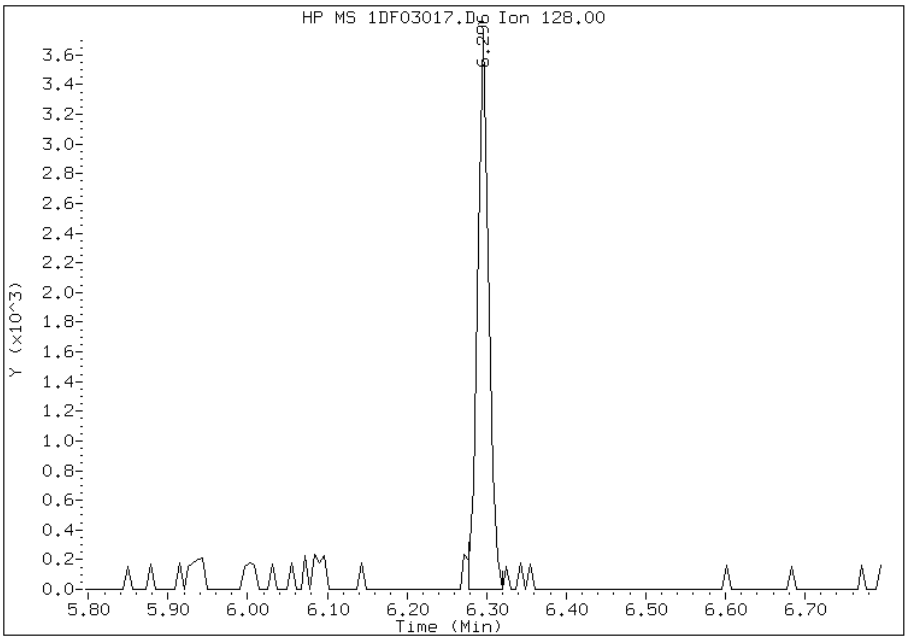
Manual Integration Results

RT: 6.30

Response: 3612

Amount: 0

Conc: 3



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 12:05
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: MB 660-138078/1-A

Matrix: Solid | Lab File ID: 1CF05016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/05/2013 08:37

Sample wt/vol: 15.05(g) | Date Analyzed: 06/05/2013 16:27

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.: 138101 | 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	5.02	J	8.0	3.9
129-00-0	Pyrene	4.02	J	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05016.D
Lab Smp Id: mb 660-138078/1-a
Inj Date : 05-JUN-2013 16:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-138078/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 16 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	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2257739	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.127	(1.000)	1708532	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.092	(1.000)	3288296	40.0000	
$ 14 o-Terphenyl	230	6.357	6.345	(1.041)	405438	7.91511	525.9211
* 18 Chrysene-d12	240	8.074	8.056	(1.000)	3709111	40.0000	
* 23 Perylene-d12	264	9.415	9.392	(1.000)	3602707	40.0000	
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	2005	0.05673	3.7697(Q)
4 1-Methylnaphthalene	142	4.545	4.539	(1.125)	1175	0.03379	2.2454(Q)
11 Phenanthrene	178	6.121	6.110	(1.003)	7341	0.07556	5.0208
15 Fluoranthene	202	6.968	6.962	(1.142)	5108	0.05144	3.4179
16 Pyrene	202	7.139	7.133	(0.884)	6060	0.06050	4.0202
19 Chrysene	228	8.092	8.074	(1.002)	5153	0.05004	3.3250

QC Flag Legend

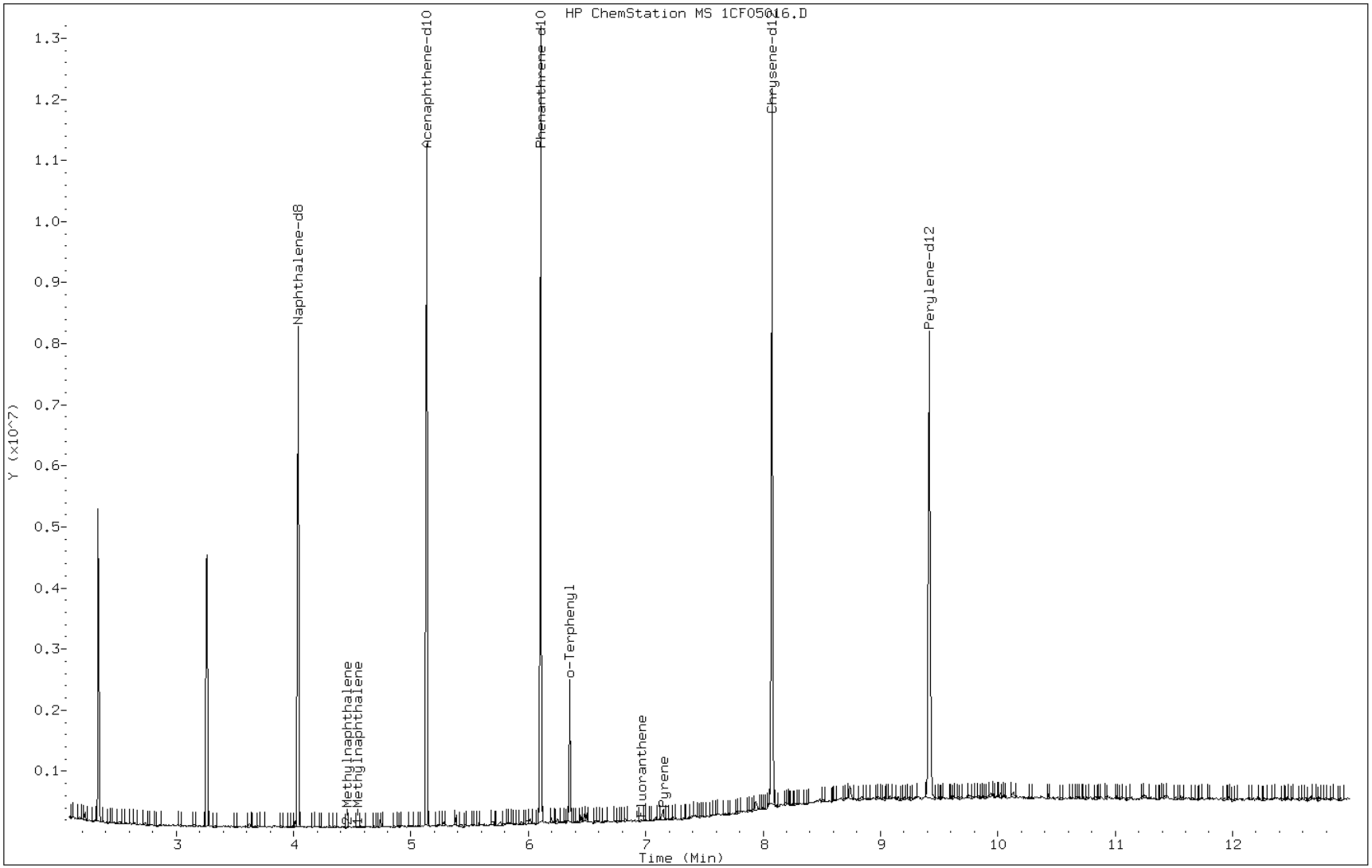
Q - Qualifier signal failed the ratio test.

Data File: 1CF05016.D

Date: 05-JUN-2013 16:27

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-138078/1-a Operator: SCC



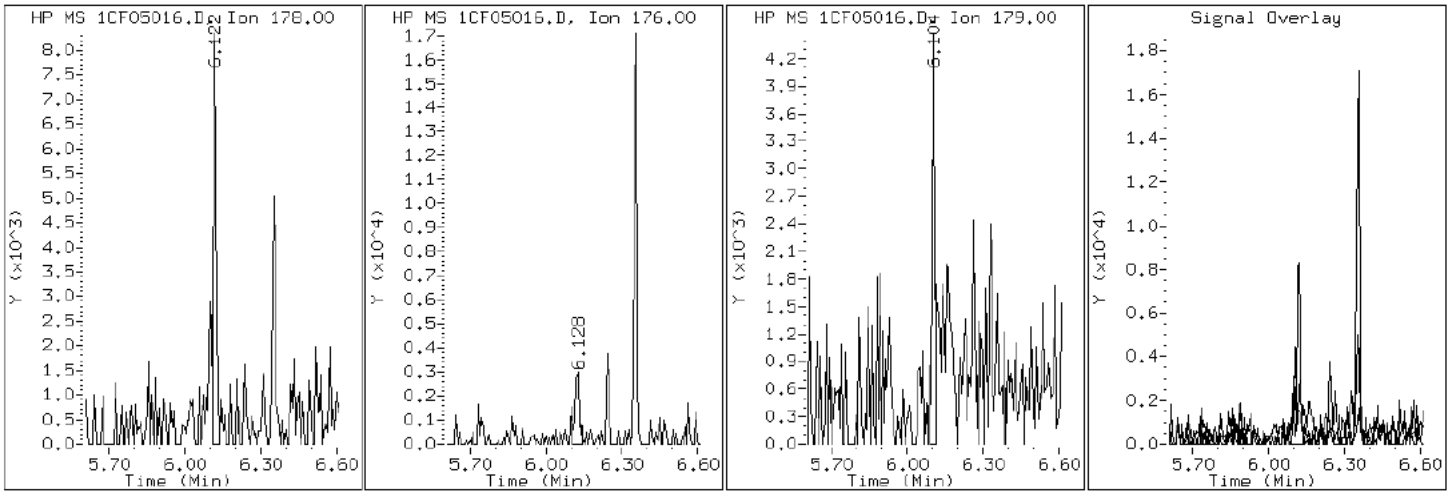
Data File: 1CF05016.D

Date: 05-JUN-2013 16:27

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-138078/1-a Operator: SCC

11 Phenanthrene



Data File: 1CF05016.D

Date: 05-JUN-2013 16:27

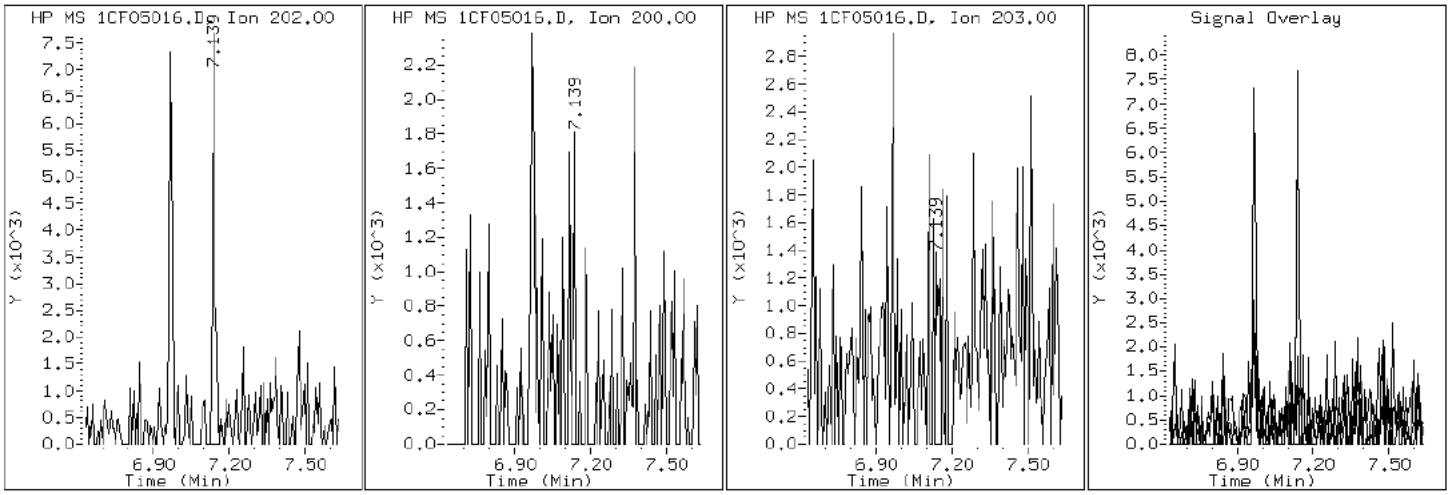
Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-138078/1-a

Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: LCS 660-137947/2-A

Matrix: Solid | Lab File ID: 1DF05007.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.03(g) | Date Analyzed: 06/05/2013 13:24

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.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	529		100	20
208-96-8	Acenaphthylene	576		40	5.0
120-12-7	Anthracene	591		8.4	4.2
56-55-3	Benzo[a]anthracene	545		8.0	3.9
50-32-8	Benzo[a]pyrene	521		10	5.2
205-99-2	Benzo[b]fluoranthene	588		12	6.1
191-24-2	Benzo[g,h,i]perylene	618		20	4.4
207-08-9	Benzo[k]fluoranthene	562		8.0	3.6
218-01-9	Chrysene	575		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	572		20	4.1
206-44-0	Fluoranthene	572		20	4.0
86-73-7	Fluorene	568		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	537		20	7.1
90-12-0	1-Methylnaphthalene	505		40	4.4
91-57-6	2-Methylnaphthalene	535		40	7.1
91-20-3	Naphthalene	529		40	4.4
85-01-8	Phenanthrene	569		8.0	3.9
129-00-0	Pyrene	613		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05007.D
Lab Smp Id: lcs 660-137947/2-a
Inj Date : 05-JUN-2013 13:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-137947/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 7 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)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.263	6.265	(1.000)	3388994	40.0000	
* 7	Acenaphthene-d10	164	7.937	7.934	(1.000)	1879829	40.0000	
* 11	Phenanthrene-d10	188	9.195	9.191	(1.000)	2952631	40.0000	
$ 15	o-Terphenyl	230	9.500	9.503	(1.033)	343406	7.93877	530
* 19	Chrysene-d12	240	11.551	11.553	(1.000)	2613136	40.0000	
* 24	Perylene-d12	264	13.454	13.457	(1.000)	2620924	40.0000	
2	Naphthalene	128	6.286	6.289	(1.004)	664662	7.95295	530
3	2-Methylnaphthalene	142	6.985	6.988	(1.115)	427638	8.03633	530
4	1-Methylnaphthalene	142	7.079	7.076	(1.130)	415954	7.59283	500
5	1,1'-Biphenyl	154	7.420	7.423	(0.935)	712	0.01121	0.74(aR)
6	Acenaphthylene	152	7.808	7.811	(0.984)	674344	8.65204	580
8	Acenaphthene	154	7.961	7.963	(1.003)	393045	7.94943	530
9	Dibenzofuran	168	8.108	8.110	(1.021)	574901	8.43275	560
10	Fluorene	166	8.401	8.404	(1.058)	477794	8.54073	570

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.212	9.215	(1.002)	683431	8.54642	570
13 Anthracene	178	9.253	9.256	(1.006)	689476	8.88615	590
16 Fluoranthene	202	10.193	10.196	(1.109)	703252	8.59625	570
17 Pyrene	202	10.381	10.384	(0.899)	704385	9.20688	610
18 Benzo(a)anthracene	228	11.533	11.542	(0.998)	635412	8.19334	540
20 Chrysene	228	11.580	11.583	(1.003)	603715	8.64497	580
21 Benzo(b)fluoranthene	252	12.890	12.893	(0.958)	580020	8.83369	590
22 Benzo(k)fluoranthene	252	12.926	12.934	(0.961)	580625	8.44434	560
23 Benzo(a)pyrene	252	13.354	13.363	(0.993)	502764	7.83294	520
25 Indeno(1,2,3-cd)pyrene	276	15.088	15.102	(1.121)	539689	8.07006	540
26 Dibenzo(a,h)anthracene	278	15.129	15.137	(1.124)	533704	8.59219	570
27 Benzo(g,h,i)perylene	276	15.558	15.572	(1.156)	552458	9.28317	620

QC Flag Legend

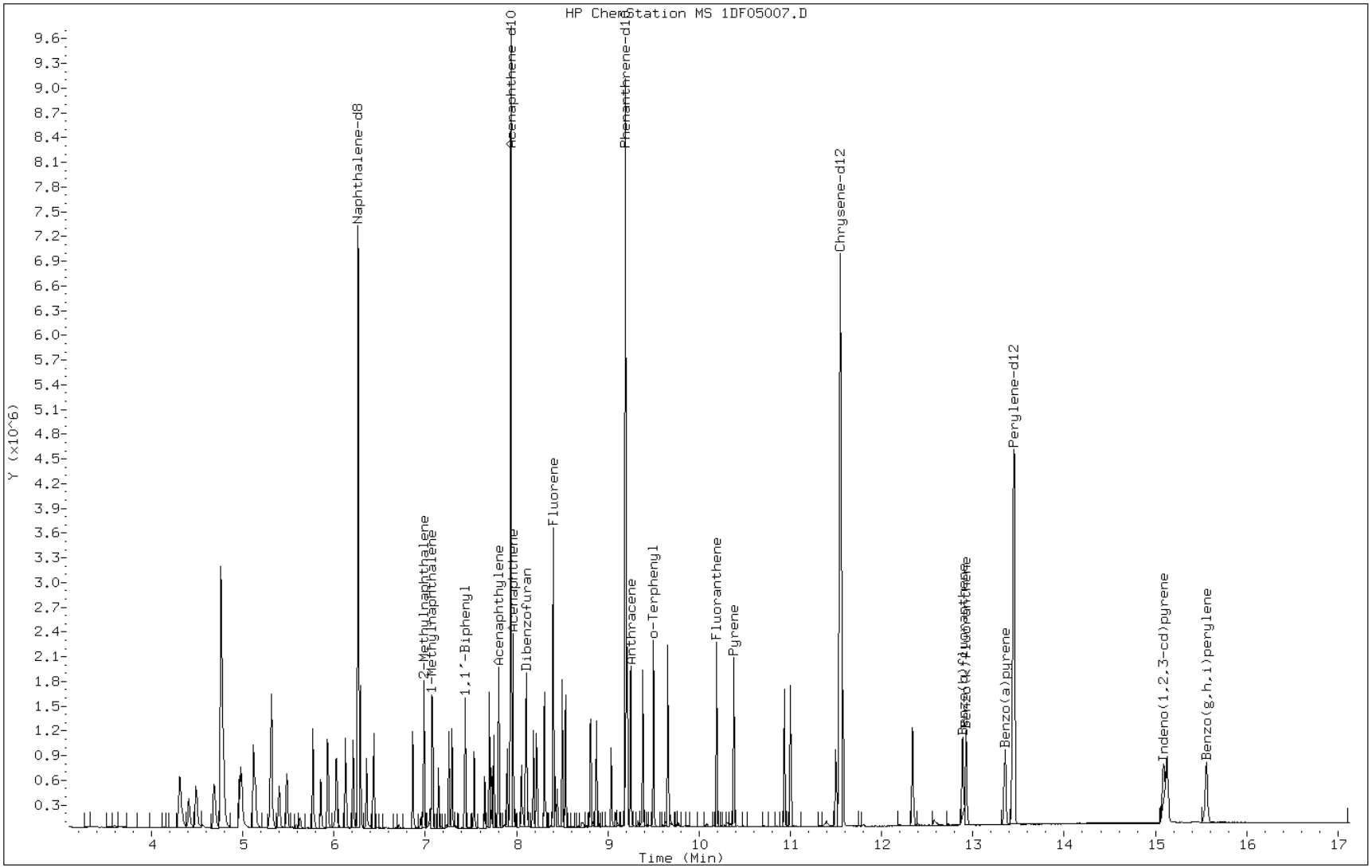
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: 1DF05007.D

Date: 05-JUN-2013 13:24

Client ID: Instrument: BSMSD.i

Sample Info: lcs 660-137947/2-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: LCS 660-137975/2-A

Matrix: Solid | Lab File ID: 1DF03018.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 15.43(g) | Date Analyzed: 06/03/2013 18:48

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.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	608		97	19
208-96-8	Acenaphthylene	654		39	4.9
120-12-7	Anthracene	676		8.2	4.1
56-55-3	Benzo[a]anthracene	622		7.8	3.8
50-32-8	Benzo[a]pyrene	602		10	5.1
205-99-2	Benzo[b]fluoranthene	684		12	5.9
191-24-2	Benzo[g,h,i]perylene	599		19	4.3
207-08-9	Benzo[k]fluoranthene	629		7.8	3.5
218-01-9	Chrysene	642		8.7	4.4
53-70-3	Dibenz(a,h)anthracene	617		19	4.0
206-44-0	Fluoranthene	659		19	3.9
86-73-7	Fluorene	656		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	574		19	6.9
90-12-0	1-Methylnaphthalene	569		39	4.3
91-57-6	2-Methylnaphthalene	610		39	6.9
91-20-3	Naphthalene	588		39	4.3
85-01-8	Phenanthrene	660		7.8	3.8
129-00-0	Pyrene	681		19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03018.D
Lab Smp Id: lcs 660-137975/2-a
Inj Date : 03-JUN-2013 18:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-137975/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 17 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	15.430	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	6.275	6.278	(1.000)	3727808	40.0000	
* 7	Acenaphthene-d10	164	7.944	7.946	(1.000)	2062640	40.0000	
* 11	Phenanthrene-d10	188	9.201	9.204	(1.000)	3267982	40.0000	
$ 15	o-Terphenyl	230	9.507	9.509	(1.033)	463261	9.67610	630
* 19	Chrysene-d12	240	11.563	11.566	(1.000)	2981539	40.0000	
* 24	Perylene-d12	264	13.473	13.469	(1.000)	3229027	40.0000	
2	Naphthalene	128	6.293	6.295	(1.003)	834733	9.08013	590
3	2-Methylnaphthalene	142	6.992	6.995	(1.114)	550731	9.40889	610
4	1-Methylnaphthalene	142	7.086	7.089	(1.129)	529205	8.78213	570
5	1,1'-Biphenyl	154	7.427	7.429	(0.935)	1037	0.01488	0.96(aR)
6	Acenaphthylene	152	7.815	7.817	(0.984)	862632	10.0869	650
8	Acenaphthene	154	7.973	7.970	(1.004)	509197	9.38587	610
9	Dibenzofuran	168	8.120	8.117	(1.022)	741278	9.90951	640
10	Fluorene	166	8.414	8.411	(1.059)	621443	10.1240	660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.219	9.221	(1.002)	901096	10.1810	660
13 Anthracene	178	9.260	9.263	(1.006)	895968	10.4332	680
16 Fluoranthene	202	10.200	10.203	(1.109)	921008	10.1716	660
17 Pyrene	202	10.388	10.391	(0.898)	917433	10.5099	680
18 Benzo(a)anthracene	228	11.545	11.548	(0.998)	849474	9.60014	620
20 Chrysene	228	11.592	11.595	(1.003)	789506	9.90851	640
21 Benzo(b)fluoranthene	252	12.903	12.911	(0.958)	853249	10.5477	680
22 Benzo(k)fluoranthene	252	12.944	12.946	(0.961)	821606	9.69876	630
23 Benzo(a)pyrene	252	13.373	13.375	(0.993)	735923	9.28775	600
25 Indeno(1,2,3-cd)pyrene	276	15.118	15.120	(1.122)	731178	8.85965	570
26 Dibenzo(a,h)anthracene	278	15.153	15.162	(1.125)	729336	9.52260	620
27 Benzo(g,h,i)perylene	276	15.588	15.602	(1.157)	678106	9.24863	600

QC Flag Legend

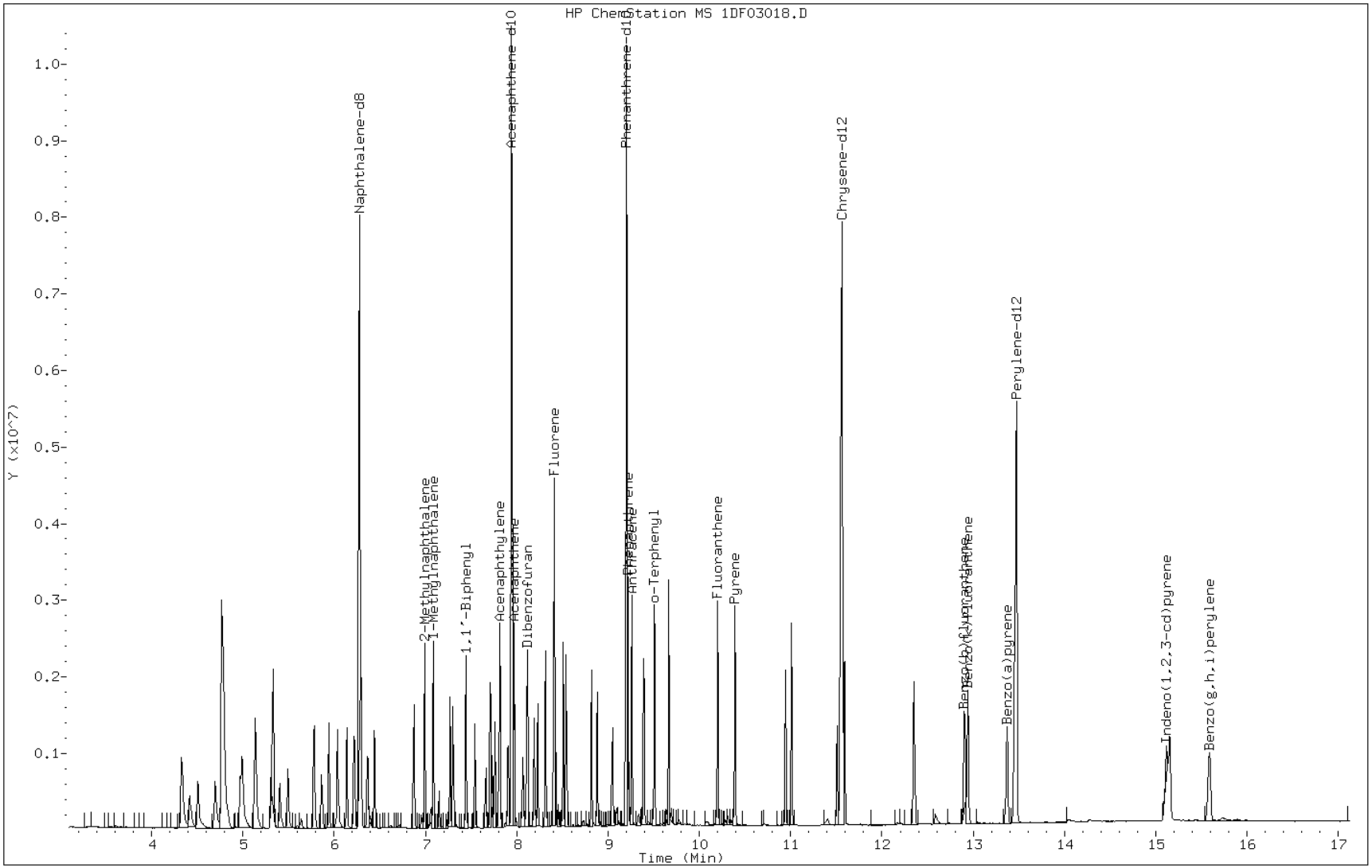
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: 1DF03018.D

Date: 03-JUN-2013 18:48

Client ID: Instrument: BSMSD.i

Sample Info: lcs 660-137975/2-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: LCS 660-138078/2-A

Matrix: Solid | Lab File ID: 1CF05017.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/05/2013 08:37

Sample wt/vol: 15.05(g) | Date Analyzed: 06/05/2013 16:45

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

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

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

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	548		100	20
208-96-8	Acenaphthylene	545		40	5.0
120-12-7	Anthracene	534		8.4	4.2
56-55-3	Benzo[a]anthracene	569		8.0	3.9
50-32-8	Benzo[a]pyrene	520		10	5.2
205-99-2	Benzo[b]fluoranthene	611		12	6.1
191-24-2	Benzo[g,h,i]perylene	560		20	4.4
207-08-9	Benzo[k]fluoranthene	527		8.0	3.6
218-01-9	Chrysene	533		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	594		20	4.1
206-44-0	Fluoranthene	557		20	4.0
86-73-7	Fluorene	533		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	457		20	7.1
90-12-0	1-Methylnaphthalene	529		40	4.4
91-57-6	2-Methylnaphthalene	529		40	7.1
91-20-3	Naphthalene	422		40	4.4
85-01-8	Phenanthrene	504		8.0	3.9
129-00-0	Pyrene	592		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05017.D
Lab Smp Id: lcs 660-138078/2-a
Inj Date : 05-JUN-2013 16:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-138078/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.039	4.039	(1.000)	2352017	40.0000	
*	6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1684321	40.0000	
*	10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3109104	40.0000	
$	14 o-Terphenyl	230	6.345	6.345	(1.042)	402570	8.31208	552.2976
*	18 Chrysene-d12	240	8.057	8.056	(1.000)	3452156	40.0000	
*	23 Perylene-d12	264	9.392	9.392	(1.000)	3333209	40.0000	
	2 Naphthalene	128	4.051	4.051	(1.003)	421241	6.34651	421.6950
	3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	293070	7.96052	528.9379
	4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	288637	7.96865	529.4782
	5 Acenaphthylene	152	5.039	5.039	(0.983)	529381	8.19861	544.7584
	7 Acenaphthene	154	5.145	5.145	(1.003)	333888	8.24590	547.9002
	9 Fluorene	166	5.468	5.468	(1.067)	414161	8.01622	532.6391
	11 Phenanthrene	178	6.110	6.110	(1.003)	696058	7.57770	503.5019
	12 Anthracene	178	6.145	6.145	(1.009)	683559	8.03253	533.7227

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.251	6.251	(1.026)	620917	7.92704	526.7134
15 Fluoranthene	202	6.963	6.962	(1.143)	787369	8.38613	557.2179
16 Pyrene	202	7.133	7.133	(0.885)	830106	8.90490	591.6880
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	814764	8.55922	568.7186
19 Chrysene	228	8.080	8.074	(1.003)	769479	8.02874	533.4709
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	752761	9.19175	610.7476
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	725969	7.93684	527.3647
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	647281	7.82918	520.2115
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.146)	598876	6.87617	456.8882(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	636196	8.94235	594.1762
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	652977	8.43251	560.2999

QC Flag Legend

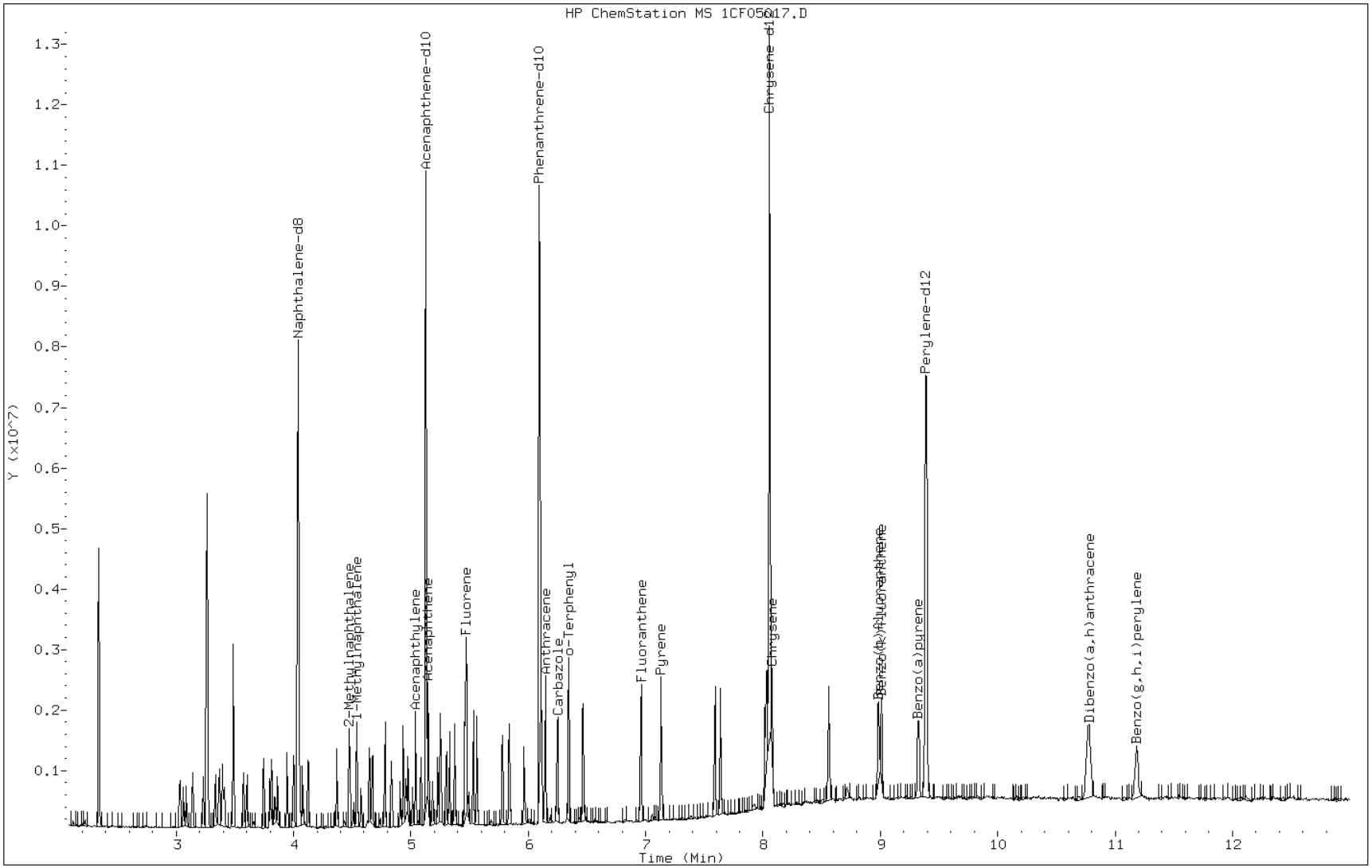
M - Compound response manually integrated.

Data File: 1CF05017.D

Date: 05-JUN-2013 16:45

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-138078/2-a Operator: SCC



Manual Integration Report

Data File: 1CF05017.D
Inj. Date and Time: 05-JUN-2013 16:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

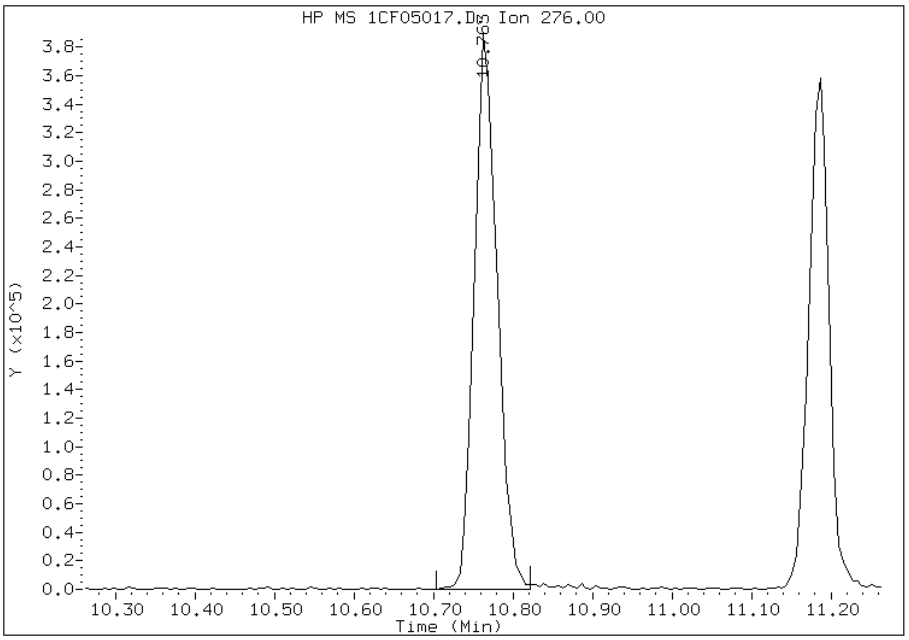
Processing Integration Results

RT: 10.76

Response: 777449

Amount: 9

Conc: 590



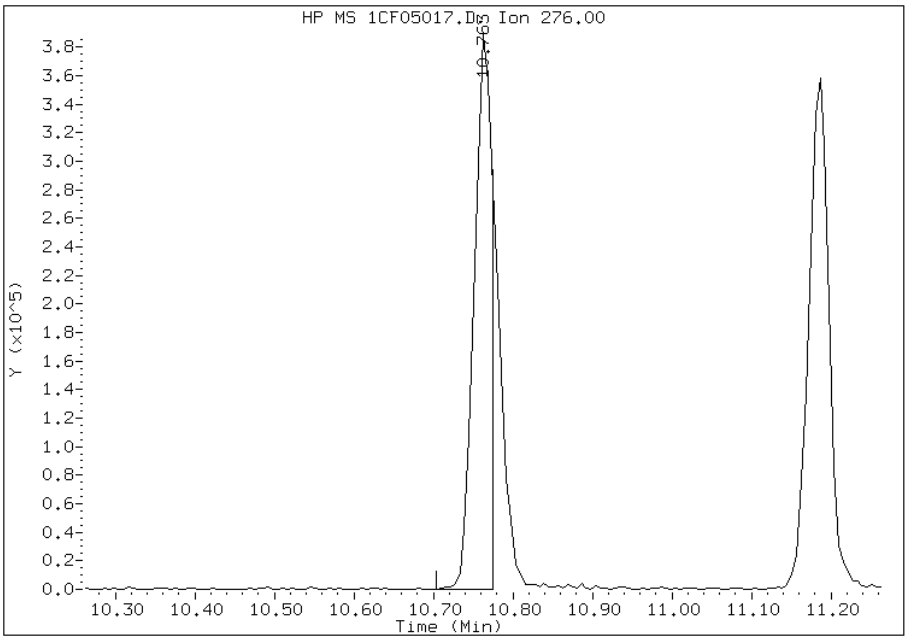
Manual Integration Results

RT: 10.76

Response: 598876

Amount: 7

Conc: 457



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 11:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: 680-90723-A-1-B MS

Matrix: Solid | Lab File ID: 1DF03024.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 15.04(g) | Date Analyzed: 06/03/2013 21:04

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	756		490	99
208-96-8	Acenaphthylene	877		200	25
120-12-7	Anthracene	917		42	21
56-55-3	Benzo[a]anthracene	984		40	19
50-32-8	Benzo[a]pyrene	939		51	26
205-99-2	Benzo[b]fluoranthene	1240		60	30
191-24-2	Benzo[g,h,i]perylene	780		99	22
207-08-9	Benzo[k]fluoranthene	911		40	18
218-01-9	Chrysene	1140		45	22
53-70-3	Dibenz(a,h)anthracene	721		99	20
206-44-0	Fluoranthene	1220		99	20
86-73-7	Fluorene	813		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	798		99	35
90-12-0	1-Methylnaphthalene	839		200	22
91-57-6	2-Methylnaphthalene	904		200	35
91-20-3	Naphthalene	820		200	22
85-01-8	Phenanthrene	1160		40	19
129-00-0	Pyrene	1190		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03024.D
Lab Smp Id: 680-90723-a-1-b ms
Inj Date : 03-JUN-2013 21:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90723-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 23 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	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	6.279	6.278	(1.000)	3329719	40.0000	
* 7 Acenaphthene-d10	164	7.941	7.946	(1.000)	1830171	40.0000	
* 11 Phenanthrene-d10	188	9.199	9.204	(1.000)	2906466	40.0000	
$ 15 o-Terphenyl	230	9.510	9.509	(1.034)	95110	2.23365	590
* 19 Chrysene-d12	240	11.567	11.566	(1.000)	2640914	40.0000	
* 24 Perylene-d12	264	13.476	13.469	(1.000)	2937416	40.0000	
2 Naphthalene	128	6.296	6.295	(1.003)	204259	2.48755	660
3 2-Methylnaphthalene	142	6.995	6.995	(1.114)	143309	2.74106	730
4 1-Methylnaphthalene	142	7.084	7.089	(1.128)	137016	2.54562	680
5 1,1'-Biphenyl	154	7.430	7.429	(0.936)	5684	0.09192	24(R)
6 Acenaphthylene	152	7.812	7.817	(0.984)	201882	2.66049	710
8 Acenaphthene	154	7.971	7.970	(1.004)	110406	2.29358	610
9 Dibenzofuran	168	8.118	8.117	(1.022)	170217	2.56452	680
10 Fluorene	166	8.411	8.411	(1.059)	134230	2.46451	660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.216	9.221	(1.002)	276086	3.50734	930(R)
13 Anthracene	178	9.258	9.263	(1.006)	212440	2.78147	740
16 Fluoranthene	202	10.198	10.203	(1.109)	297924	3.69954	980(R)
17 Pyrene	202	10.386	10.391	(0.898)	279399	3.61356	960(R)
18 Benzo(a)anthracene	228	11.549	11.548	(0.998)	234028	2.98594	790
20 Chrysene	228	11.590	11.595	(1.002)	243985	3.45702	920(R)
21 Benzo(b)fluoranthene	252	12.906	12.911	(0.958)	275662	3.74598	1000(R)
22 Benzo(k)fluoranthene	252	12.941	12.946	(0.960)	212841	2.76194	730
23 Benzo(a)pyrene	252	13.370	13.375	(0.992)	200256	2.84726	760
25 Indeno(1,2,3-cd)pyrene	276	15.115	15.120	(1.122)	173507	2.42051	640(M)
26 Dibenzo(a,h)anthracene	278	15.151	15.162	(1.124)	148533	2.18771	580
27 Benzo(g,h,i)perylene	276	15.585	15.602	(1.157)	157733	2.36488	630

QC Flag Legend

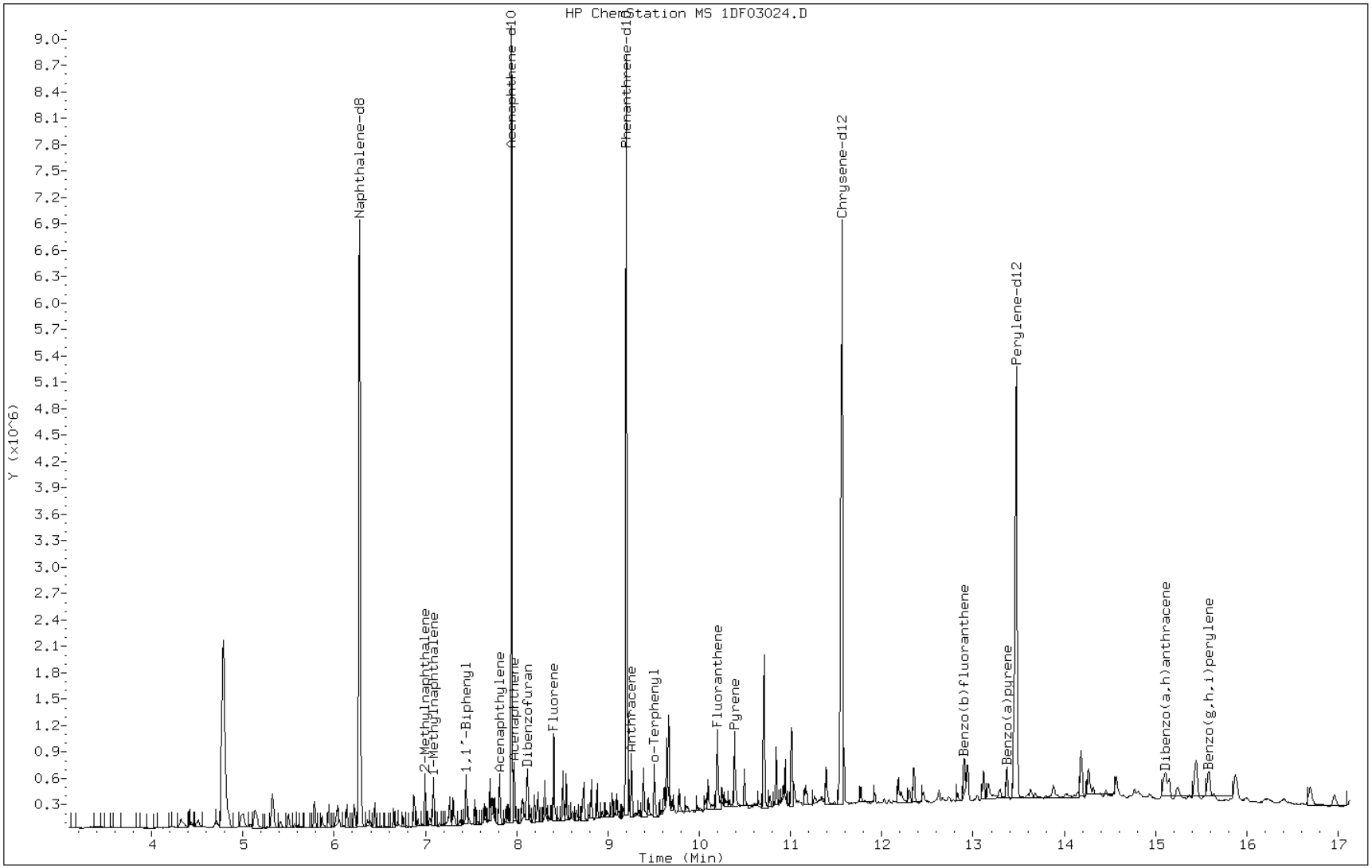
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DF03024.D

Date: 03-JUN-2013 21:04

Client ID: Instrument: BSMSD.i

Sample Info: 680-90723-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1DF03024.D
Inj. Date and Time: 03-JUN-2013 21:04
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

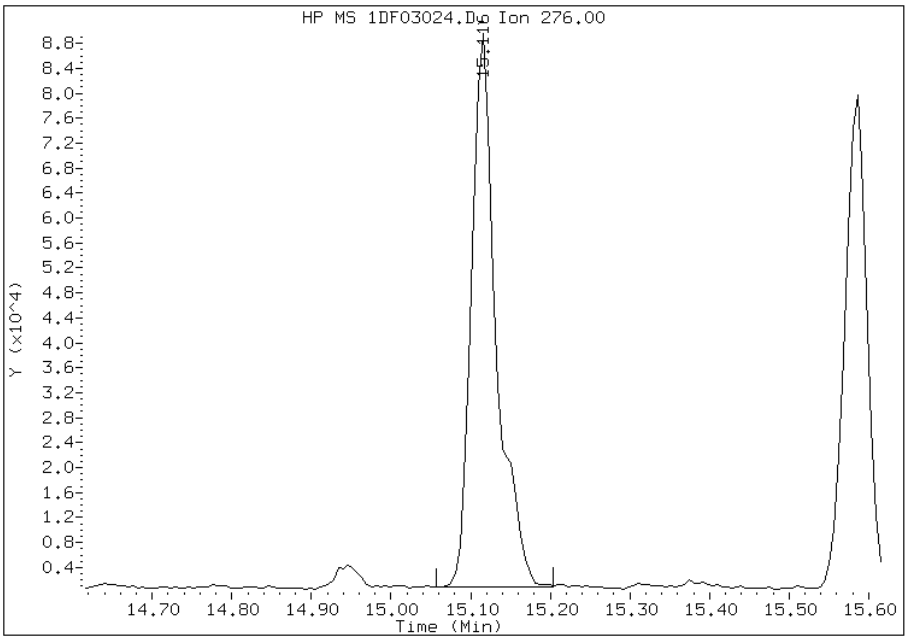
Processing Integration Results

RT: 15.12

Response: 192072

Amount: 3

Conc: 708



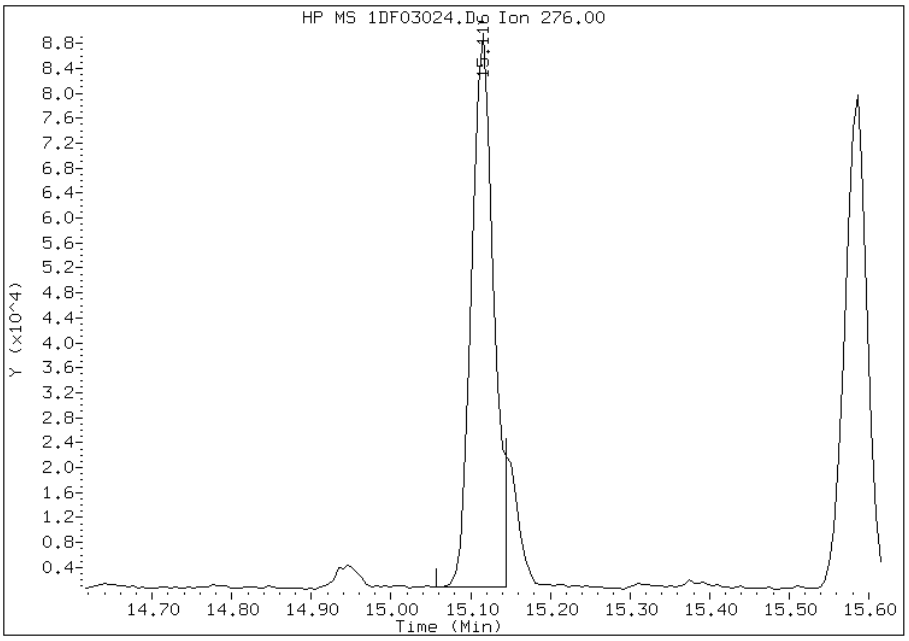
Manual Integration Results

RT: 15.12

Response: 173507

Amount: 2

Conc: 644



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: 660-54591-E-3-B MS

Matrix: Solid | Lab File ID: 1CF05020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/05/2013 08:37

Sample wt/vol: 14.99(g) | Date Analyzed: 06/05/2013 17:40

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

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

% Moisture: 9.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	556		110	22
208-96-8	Acenaphthylene	581		44	5.5
120-12-7	Anthracene	564		9.3	4.6
56-55-3	Benzo[a]anthracene	588		8.8	4.3
50-32-8	Benzo[a]pyrene	522		12	5.8
205-99-2	Benzo[b]fluoranthene	584		13	6.7
191-24-2	Benzo[g,h,i]perylene	535		22	4.9
207-08-9	Benzo[k]fluoranthene	606		8.8	4.0
218-01-9	Chrysene	554		10	5.0
53-70-3	Dibenz(a,h)anthracene	596		22	4.5
206-44-0	Fluoranthene	584		22	4.4
86-73-7	Fluorene	570		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	511		22	7.9
90-12-0	1-Methylnaphthalene	561		44	4.9
91-57-6	2-Methylnaphthalene	575		44	7.9
91-20-3	Naphthalene	458		44	4.9
85-01-8	Phenanthrene	523		8.8	4.3
129-00-0	Pyrene	568		22	4.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05020.D
Lab Smp Id: 660-54591-e-3-b ms
Inj Date : 05-JUN-2013 17:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 660-54591-e-3-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 20 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	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/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	4.039	4.039	(1.000)	2374954	40.0000	
* 6	Acenaphthene-d10	164	5.127	5.127	(1.000)	1721862	40.0000	
* 10	Phenanthrene-d10	188	6.092	6.092	(1.000)	3254179	40.0000	
$ 14	o-Terphenyl	230	6.345	6.345	(1.042)	376434	7.42593	495.3923
* 18	Chrysene-d12	240	8.056	8.056	(1.000)	3780031	40.0000	
* 23	Perylene-d12	264	9.386	9.392	(1.000)	3686398	40.0000	
2	Naphthalene	128	4.051	4.051	(1.003)	416449	6.21372	414.5240
3	2-Methylnaphthalene	142	4.474	4.474	(1.108)	289731	7.79382	519.9342
4	1-Methylnaphthalene	142	4.539	4.539	(1.124)	278334	7.60999	507.6711
5	Acenaphthylene	152	5.039	5.039	(0.983)	519923	7.87658	525.4556
7	Acenaphthene	154	5.145	5.145	(1.003)	312274	7.54396	503.2664
9	Fluorene	166	5.468	5.468	(1.067)	408046	7.72567	515.3881
11	Phenanthrene	178	6.110	6.110	(1.003)	682259	7.09635	473.4059
12	Anthracene	178	6.145	6.145	(1.009)	681477	7.65105	510.4104

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.251	6.251	(1.026)	601494	7.34528	490.0120
15 Fluoranthene	202	6.957	6.962	(1.142)	778167	7.91863	528.2606
16 Pyrene	202	7.133	7.133	(0.885)	786518	7.70548	514.0410
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	831428	7.97667	532.1330
19 Chrysene	228	8.074	8.074	(1.002)	789122	7.51951	501.6352
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	717706	7.92407	528.6235
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.960)	831962	8.22419	548.6452
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	646942	7.08507	472.6534
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.147)	667711	6.93071	462.3556(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.149)	635515	8.07694	538.8220
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	621115	7.25256	483.8267

QC Flag Legend

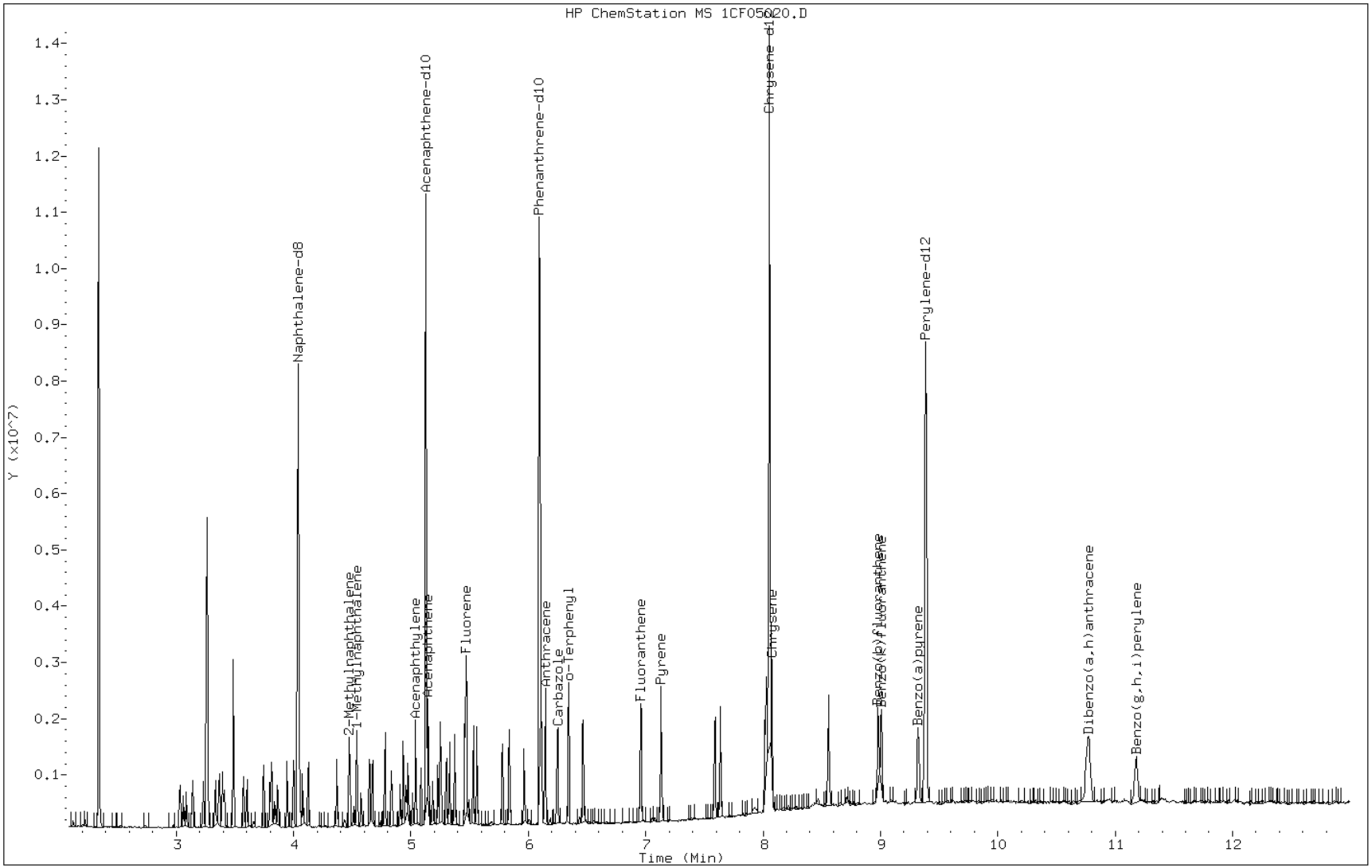
M - Compound response manually integrated.

Data File: 1CF05020.D

Date: 05-JUN-2013 17:40

Client ID: Instrument: BSMC5973.i

Sample Info: 660-54591-e-3-b ms Operator: SCC



Manual Integration Report

Data File: 1CF05020.D
Inj. Date and Time: 05-JUN-2013 17:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

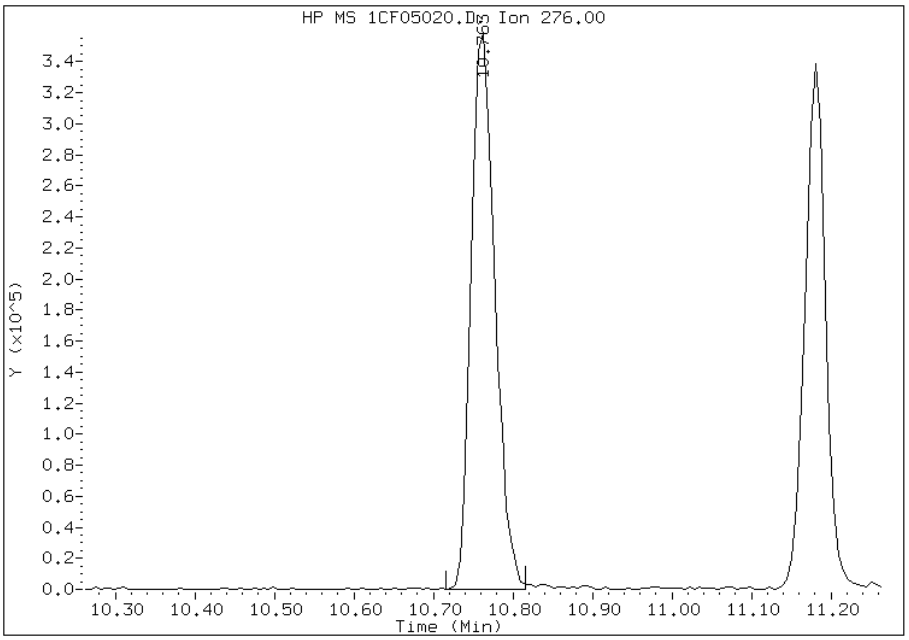
Processing Integration Results

RT: 10.76

Response: 741918

Amount: 8

Conc: 513



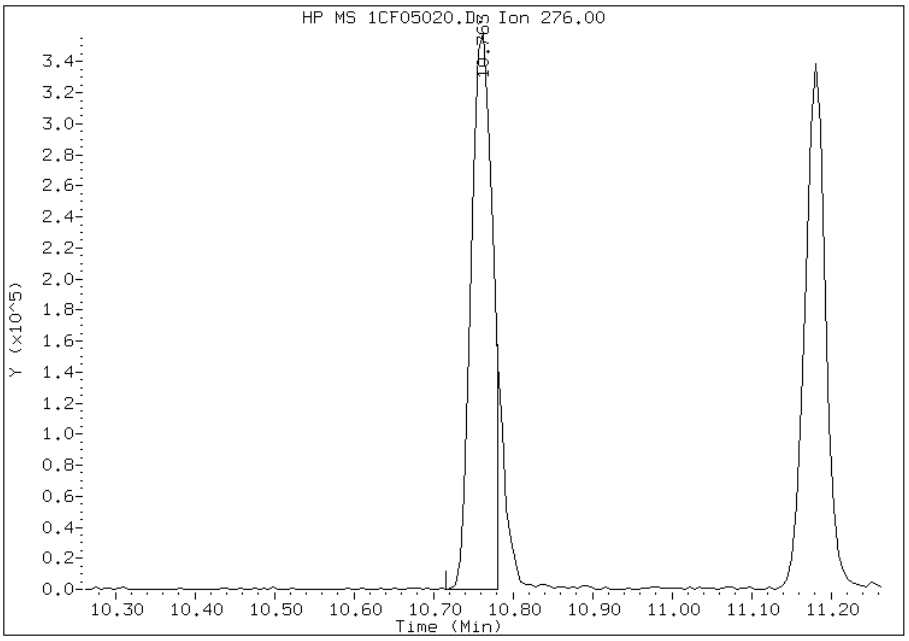
Manual Integration Results

RT: 10.76

Response: 667711

Amount: 7

Conc: 462



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 11:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV0996A-CS MS | Lab Sample ID: 680-90686-22 MS

Matrix: Solid | Lab File ID: 1DF05009.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:25

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.05(g) | Date Analyzed: 06/05/2013 14:10

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	755		490	98
208-96-8	Acenaphthylene	847		200	25
120-12-7	Anthracene	874		41	21
56-55-3	Benzo[a]anthracene	1060		39	19
50-32-8	Benzo[a]pyrene	1020		51	26
205-99-2	Benzo[b]fluoranthene	1210		60	30
191-24-2	Benzo[g,h,i]perylene	1190		98	22
207-08-9	Benzo[k]fluoranthene	977		39	18
218-01-9	Chrysene	1200		44	22
53-70-3	Dibenz(a,h)anthracene	888		98	20
206-44-0	Fluoranthene	1300		98	20
86-73-7	Fluorene	814		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	1100		98	35
90-12-0	1-Methylnaphthalene	854		200	22
91-57-6	2-Methylnaphthalene	940		200	35
91-20-3	Naphthalene	844		200	22
85-01-8	Phenanthrene	1220		39	19
129-00-0	Pyrene	1370		98	18

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\1D060513.b\1DF05009.D
Lab Smp Id: 680-90686-a-22-b ms
Inj Date : 05-JUN-2013 14:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-22-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 9 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.266	6.265	(1.000)	3218693	40.0000	
* 7 Acenaphthene-d10	164	7.935	7.934	(1.000)	1730193	40.0000	
* 11 Phenanthrene-d10	188	9.192	9.191	(1.000)	2727651	40.0000	
$ 15 o-Terphenyl	230	9.504	9.503	(1.034)	84914	2.12493	560
* 19 Chrysene-d12	240	11.554	11.553	(1.000)	2317889	40.0000	
* 24 Perylene-d12	264	13.458	13.457	(1.000)	2645002	40.0000	
2 Naphthalene	128	6.284	6.289	(1.003)	204412	2.57528	680
3 2-Methylnaphthalene	142	6.983	6.988	(1.114)	144978	2.86863	760
4 1-Methylnaphthalene	142	7.077	7.076	(1.129)	135667	2.60750	690
5 1,1'-Biphenyl	154	7.424	7.423	(0.936)	8025	0.13728	36(R)
6 Acenaphthylene	152	7.806	7.811	(0.984)	185485	2.58565	690
8 Acenaphthene	154	7.959	7.963	(1.003)	104871	2.30448	610
9 Dibenzofuran	168	8.105	8.110	(1.021)	163574	2.60684	690
10 Fluorene	166	8.399	8.404	(1.058)	127991	2.48575	660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.210	9.215	(1.002)	274655	3.71790	990(R)
13 Anthracene	178	9.251	9.256	(1.006)	191356	2.66967	710
16 Fluoranthene	202	10.191	10.196	(1.109)	300343	3.97408	1000(R)
17 Pyrene	202	10.379	10.384	(0.898)	283347	4.17533	1100(R)
18 Benzo(a)anthracene	228	11.537	11.542	(0.998)	222433	3.23351	860
20 Chrysene	228	11.578	11.583	(1.002)	227744	3.67661	980(R)
21 Benzo(b)fluoranthene	252	12.888	12.893	(0.958)	244420	3.68862	980(R)
22 Benzo(k)fluoranthene	252	12.923	12.934	(0.960)	206975	2.98275	790
23 Benzo(a)pyrene	252	13.352	13.363	(0.992)	198563	3.12534	830
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.102	(1.121)	220026	3.34837	890(RM)
26 Dibenzo(a,h)anthracene	278	15.127	15.137	(1.124)	166838	2.71118	720
27 Benzo(g,h,i)perylene	276	15.561	15.572	(1.156)	217339	3.61879	960(R)

QC Flag Legend

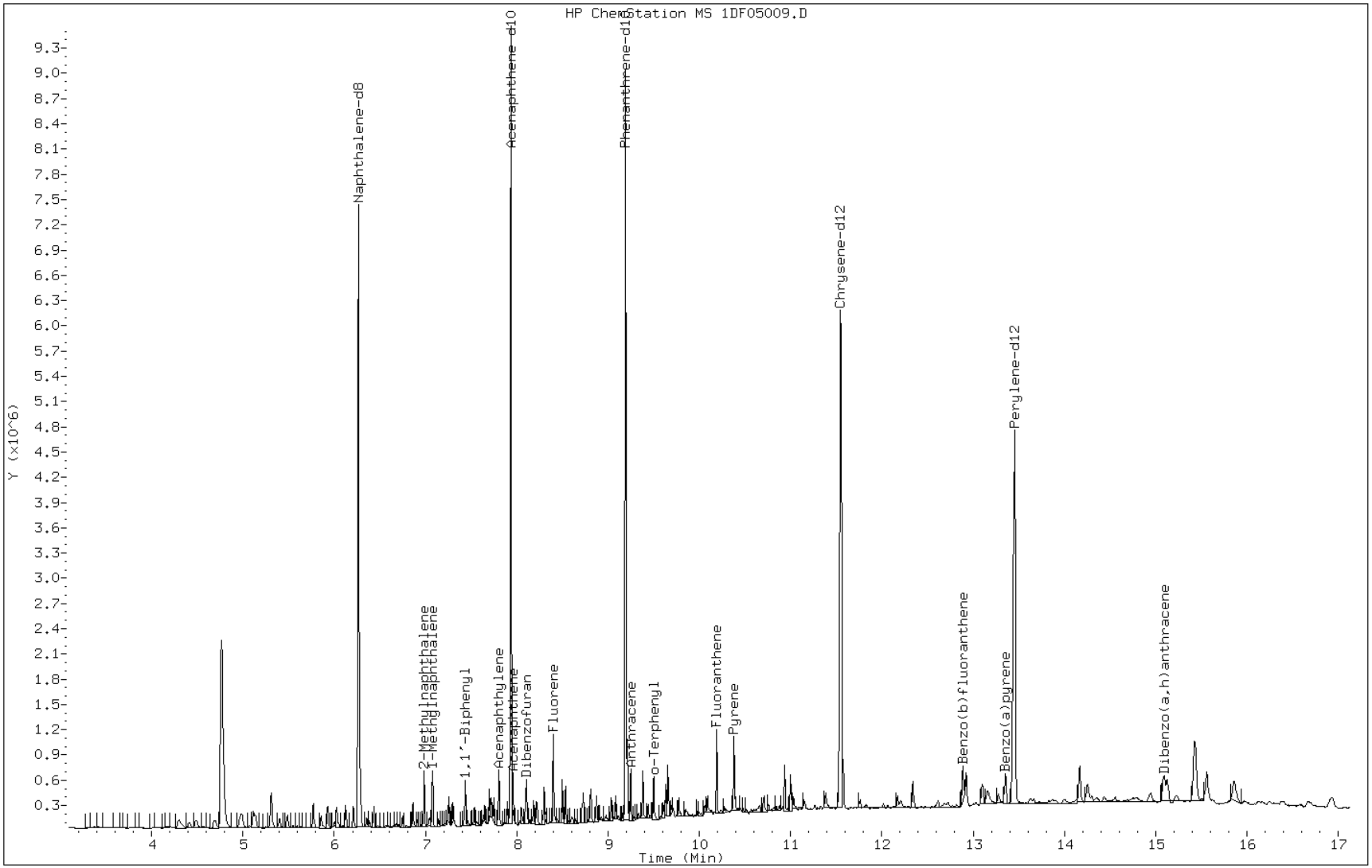
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DF05009.D

Date: 05-JUN-2013 14:10

Client ID: Instrument: BSMSD.i

Sample Info: 680-90686-a-22-b ms Operator: SCC



Manual Integration Report

Data File: 1DF05009.D
Inj. Date and Time: 05-JUN-2013 14:10
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

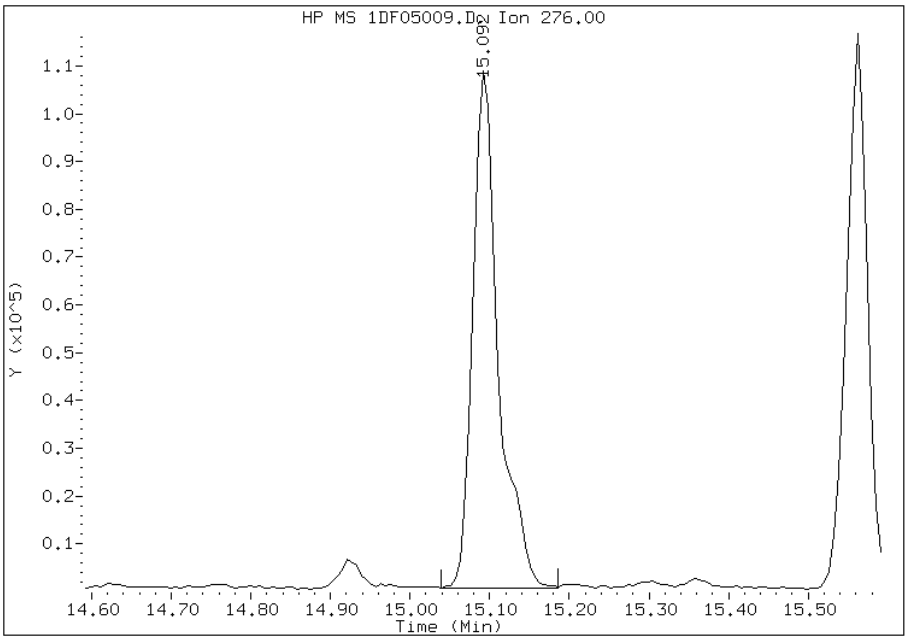
Processing Integration Results

RT: 15.09

Response: 239279

Amount: 4

Conc: 964



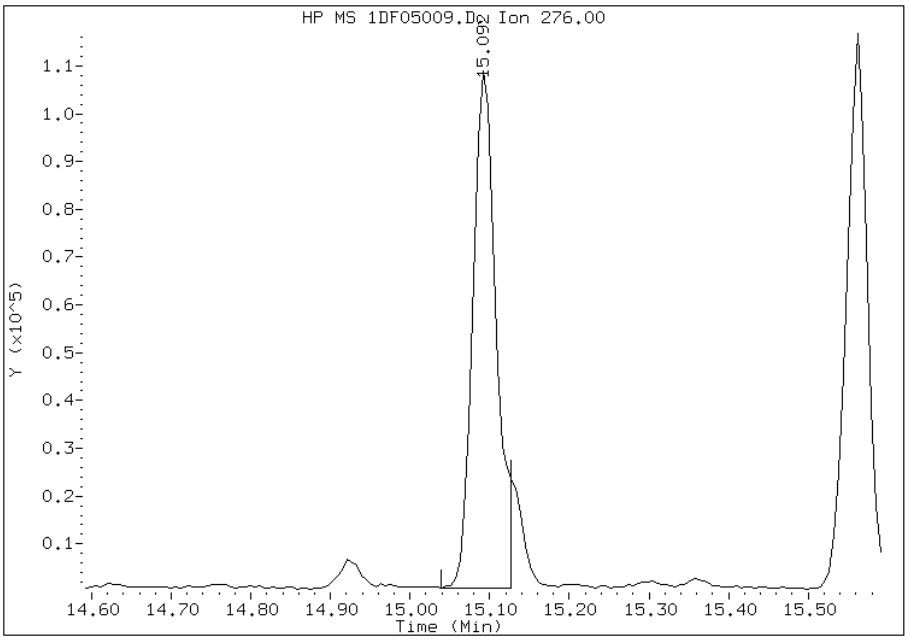
Manual Integration Results

RT: 15.09

Response: 220026

Amount: 3

Conc: 890



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: 680-90723-A-1-C MSD

Matrix: Solid | Lab File ID: 1DF03025.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 06:50

Sample wt/vol: 15.04(g) | Date Analyzed: 06/03/2013 21:26

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	767		490	99
208-96-8	Acenaphthylene	869		200	25
120-12-7	Anthracene	910		42	21
56-55-3	Benzo[a]anthracene	964		40	19
50-32-8	Benzo[a]pyrene	942		51	26
205-99-2	Benzo[b]fluoranthene	1190		60	30
191-24-2	Benzo[g,h,i]perylene	792		99	22
207-08-9	Benzo[k]fluoranthene	907		40	18
218-01-9	Chrysene	1090		45	22
53-70-3	Dibenz(a,h)anthracene	729		99	20
206-44-0	Fluoranthene	1130		99	20
86-73-7	Fluorene	812		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	801		99	35
90-12-0	1-Methylnaphthalene	840		200	22
91-57-6	2-Methylnaphthalene	899		200	35
91-20-3	Naphthalene	810		200	22
85-01-8	Phenanthrene	1080		40	19
129-00-0	Pyrene	1090		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03025.D
Lab Smp Id: 680-90723-a-1-c msd
Inj Date : 03-JUN-2013 21:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90723-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 24 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	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	6.279	6.278	(1.000)	3354388	40.0000	
* 7	Acenaphthene-d10	164	7.942	7.946	(1.000)	1866655	40.0000	
* 11	Phenanthrene-d10	188	9.200	9.204	(1.000)	2984919	40.0000	
$ 15	o-Terphenyl	230	9.511	9.509	(1.034)	96700	2.21130	590
* 19	Chrysene-d12	240	11.567	11.566	(1.000)	2748534	40.0000	
* 24	Perylene-d12	264	13.477	13.469	(1.000)	2860803	40.0000	
2	Naphthalene	128	6.297	6.295	(1.003)	203185	2.45627	650
3	2-Methylnaphthalene	142	6.996	6.995	(1.114)	143610	2.72662	720
4	1-Methylnaphthalene	142	7.084	7.089	(1.128)	138094	2.54678	680
5	1,1'-Biphenyl	154	7.431	7.429	(0.936)	5976	0.09476	25(R)
6	Acenaphthylene	152	7.813	7.817	(0.984)	204039	2.63636	700
8	Acenaphthene	154	7.972	7.970	(1.004)	114177	2.32555	620
9	Dibenzofuran	168	8.119	8.117	(1.022)	174048	2.57098	680
10	Fluorene	166	8.412	8.411	(1.059)	136771	2.46208	650

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.217	9.221	(1.002)	265428	3.28332	870(R)
13 Anthracene	178	9.258	9.263	(1.006)	216458	2.75959	730
16 Fluoranthene	202	10.198	10.203	(1.109)	283020	3.42209	910(R)
17 Pyrene	202	10.386	10.391	(0.898)	267069	3.31884	880(R)
18 Benzo(a)anthracene	228	11.550	11.548	(0.998)	238471	2.92349	780
20 Chrysene	228	11.591	11.595	(1.002)	242849	3.30620	880(R)
21 Benzo(b)fluoranthene	252	12.901	12.911	(0.957)	259355	3.61876	960(R)
22 Benzo(k)fluoranthene	252	12.942	12.946	(0.960)	206458	2.75086	730
23 Benzo(a)pyrene	252	13.371	13.375	(0.992)	195753	2.85740	760
25 Indeno(1,2,3-cd)pyrene	276	15.110	15.120	(1.121)	169661	2.42964	650
26 Dibenzo(a,h)anthracene	278	15.151	15.162	(1.124)	146351	2.21245	590
27 Benzo(g,h,i)perylene	276	15.586	15.602	(1.157)	156068	2.40258	640

QC Flag Legend

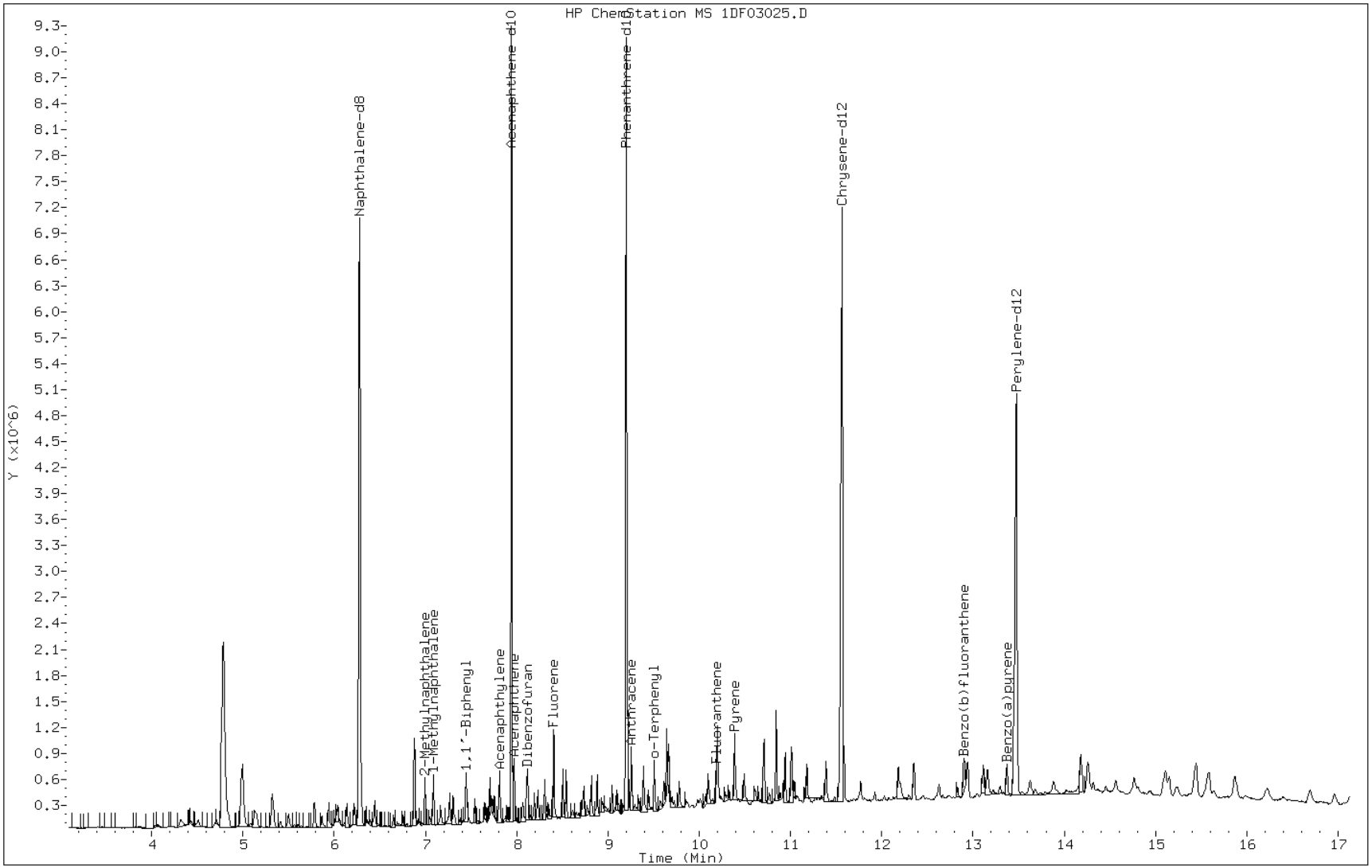
R - Spike/Surrogate failed recovery limits.

Data File: 1DF03025.D

Date: 03-JUN-2013 21:26

Client ID: Instrument: BSMSD.i

Sample Info: 680-90723-a-1-c msd Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: | Lab Sample ID: 660-54591-E-3-C MSD

Matrix: Solid | Lab File ID: 1CF05021.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/05/2013 08:37

Sample wt/vol: 15.03(g) | Date Analyzed: 06/05/2013 17:59

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

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

% Moisture: 9.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138101 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	609		110	22
208-96-8	Acenaphthylene	594		44	5.5
120-12-7	Anthracene	580		9.3	4.6
56-55-3	Benzo[a]anthracene	627		8.8	4.3
50-32-8	Benzo[a]pyrene	582		11	5.7
205-99-2	Benzo[b]fluoranthene	644		13	6.7
191-24-2	Benzo[g,h,i]perylene	587		22	4.9
207-08-9	Benzo[k]fluoranthene	646		8.8	4.0
218-01-9	Chrysene	599		9.9	5.0
53-70-3	Dibenz(a,h)anthracene	672		22	4.5
206-44-0	Fluoranthene	645		22	4.4
86-73-7	Fluorene	601		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	537		22	7.8
90-12-0	1-Methylnaphthalene	585		44	4.9
91-57-6	2-Methylnaphthalene	578		44	7.8
91-20-3	Naphthalene	463		44	4.9
85-01-8	Phenanthrene	540		8.8	4.3
129-00-0	Pyrene	623		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05021.D
Lab Smp Id: 660-54591-e-3-c msd
Inj Date : 05-JUN-2013 17:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 660-54591-e-3-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m
Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 21 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	15.030	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/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	4.039	4.039	(1.000)	2368035	40.0000	
* 6	Acenaphthene-d10	164	5.127	5.127	(1.000)	1679633	40.0000	
* 10	Phenanthrene-d10	188	6.092	6.092	(1.000)	3206205	40.0000	
$ 14	o-Terphenyl	230	6.345	6.345	(1.042)	405329	8.11559	539.9592
* 18	Chrysene-d12	240	8.056	8.056	(1.000)	3749843	40.0000	
* 23	Perylene-d12	264	9.386	9.392	(1.000)	3687074	40.0000	
2	Naphthalene	128	4.051	4.051	(1.003)	420776	6.29662	418.9369
3	2-Methylnaphthalene	142	4.474	4.474	(1.108)	291354	7.86037	522.9789
4	1-Methylnaphthalene	142	4.539	4.539	(1.124)	289900	7.94938	528.9007
5	Acenaphthylene	152	5.039	5.039	(0.983)	519697	8.07110	536.9994
7	Acenaphthene	154	5.145	5.145	(1.003)	334524	8.28467	551.2086
9	Fluorene	166	5.468	5.468	(1.067)	420950	8.17036	543.6036
11	Phenanthrene	178	6.109	6.110	(1.003)	695948	7.34705	488.8256
12	Anthracene	178	6.145	6.145	(1.009)	691747	7.88256	524.4552

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.245	6.251	(1.025)	639300	7.91473	526.5953
15 Fluoranthene	202	6.962	6.962	(1.143)	848729	8.76590	583.2266
16 Pyrene	202	7.133	7.133	(0.885)	857900	8.47246	563.7035
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	882251	8.53241	567.6918
19 Chrysene	228	8.074	8.074	(1.002)	848277	8.14827	542.1338
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	793315	8.75725	582.6511
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.960)	888901	8.78544	584.5270
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	723364	7.90869	526.1933
24 Indeno(1,2,3-cd)pyrene	276	10.762	10.768	(1.147)	704761	7.30518	486.0400(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.149)	719528	9.14301	608.3174
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	683617	7.98092	530.9990

QC Flag Legend

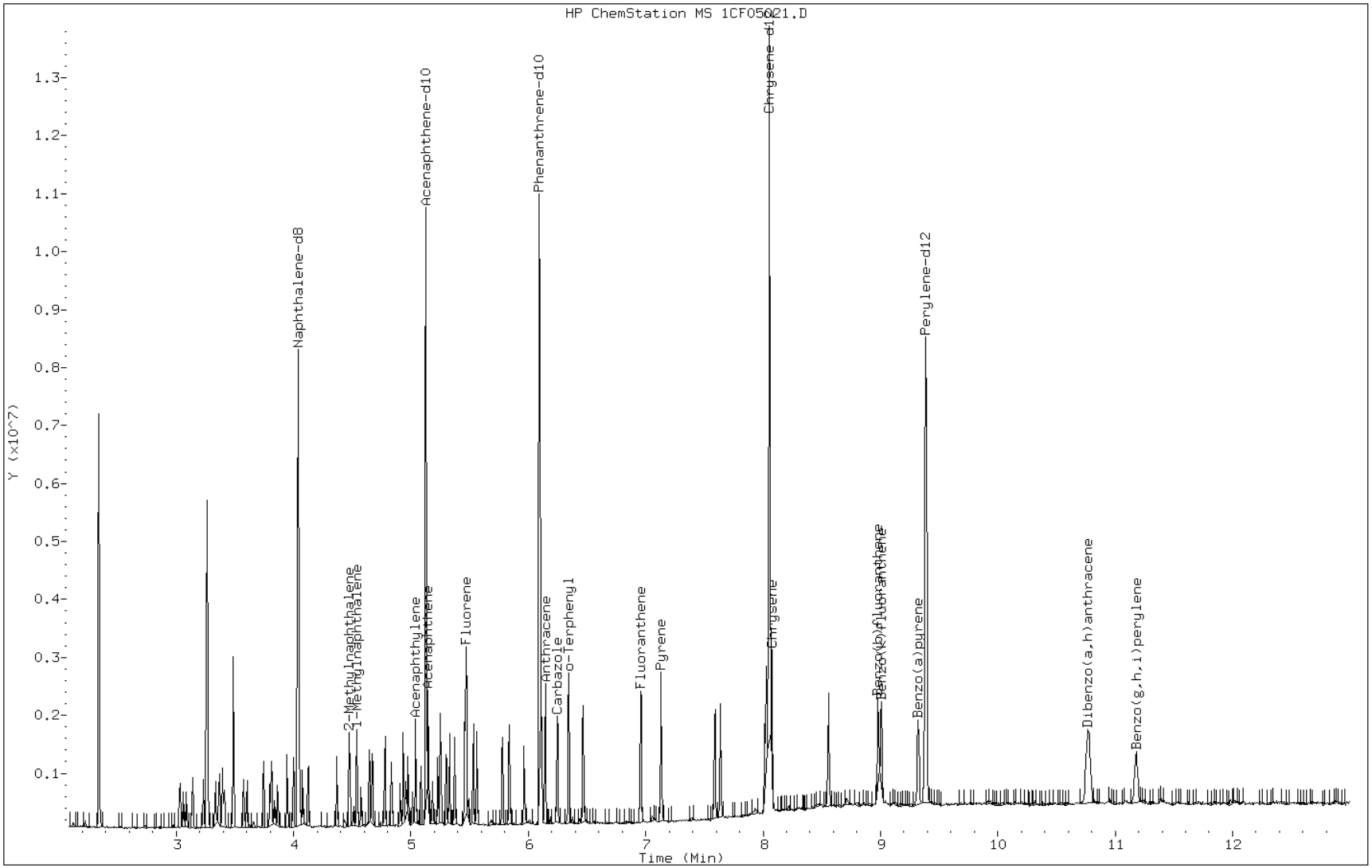
M - Compound response manually integrated.

Data File: 1CF05021.D

Date: 05-JUN-2013 17:59

Client ID: Instrument: BSMC5973.i

Sample Info: 660-54591-e-3-c msd Operator: SCC



Manual Integration Report

Data File: 1CF05021.D
Inj. Date and Time: 05-JUN-2013 17:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

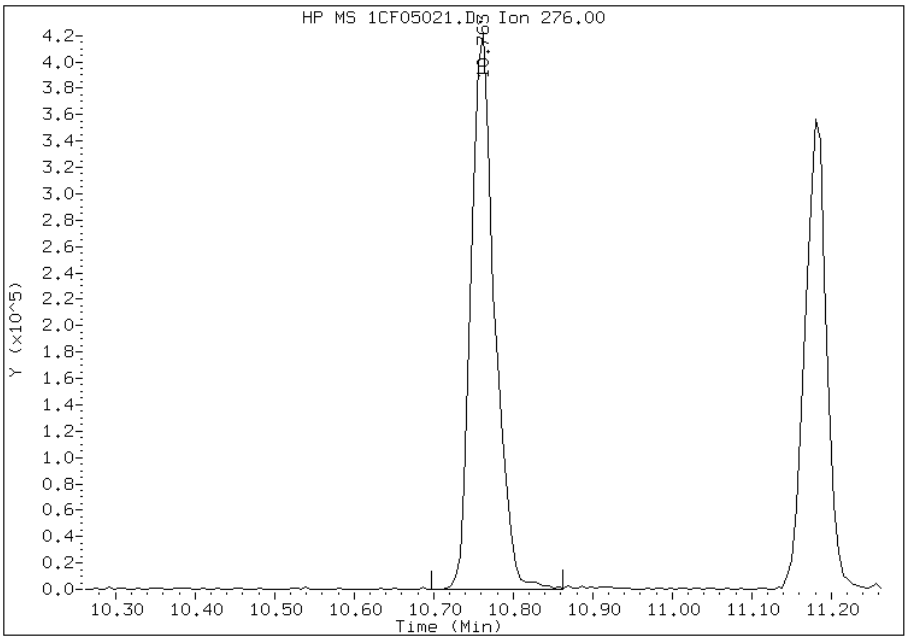
Processing Integration Results

RT: 10.76

Response: 871381

Amount: 9

Conc: 598



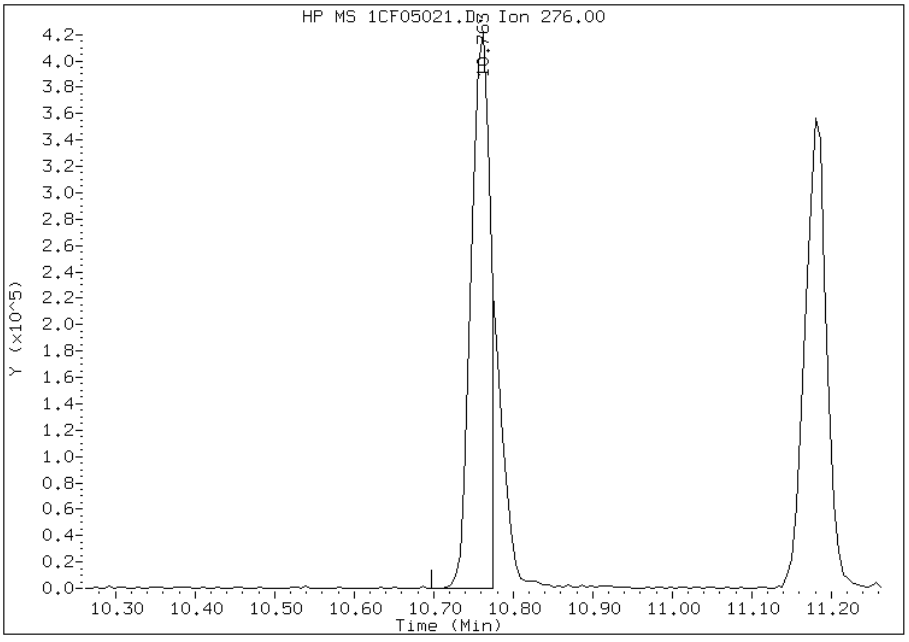
Manual Integration Results

RT: 10.76

Response: 704761

Amount: 7

Conc: 486



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 11:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90686-2

SDG No.: 68090686-2

Client Sample ID: CV0996A-CS MSD | Lab Sample ID: 680-90686-22 MSD

Matrix: Solid | Lab File ID: 1DF05010.D

Analysis Method: 8270C LL | Date Collected: 05/22/2013 14:25

Extract. Method: 3546 | Date Extracted: 05/31/2013 10:03

Sample wt/vol: 15.05(g) | Date Analyzed: 06/05/2013 14:32

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138106 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	724		490	98
208-96-8	Acenaphthylene	804		200	25
120-12-7	Anthracene	844		41	21
56-55-3	Benzo[a]anthracene	1030		39	19
50-32-8	Benzo[a]pyrene	960		51	26
205-99-2	Benzo[b]fluoranthene	1210		60	30
191-24-2	Benzo[g,h,i]perylene	1090		98	22
207-08-9	Benzo[k]fluoranthene	856		39	18
218-01-9	Chrysene	1100		44	22
53-70-3	Dibenz(a,h)anthracene	866		98	20
206-44-0	Fluoranthene	1240		98	20
86-73-7	Fluorene	786		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	1020		98	35
90-12-0	1-Methylnaphthalene	795		200	22
91-57-6	2-Methylnaphthalene	869		200	35
91-20-3	Naphthalene	801		200	22
85-01-8	Phenanthrene	1160		39	19
129-00-0	Pyrene	1270		98	18

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\1D060513.b\1DF05010.D
Lab Smp Id: 680-90686-a-22-c ms
Inj Date : 05-JUN-2013 14:32
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90686-a-22-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.266	6.265	(1.000)	3212164	40.0000	
* 7 Acenaphthene-d10	164	7.935	7.934	(1.000)	1707182	40.0000	
* 11 Phenanthrene-d10	188	9.192	9.191	(1.000)	2698420	40.0000	
$ 15 o-Terphenyl	230	9.504	9.503	(1.034)	83811	2.12005	560
* 19 Chrysene-d12	240	11.554	11.553	(1.000)	2340363	40.0000	
* 24 Perylene-d12	264	13.458	13.457	(1.000)	2673967	40.0000	
2 Naphthalene	128	6.284	6.289	(1.003)	193638	2.44450	650
3 2-Methylnaphthalene	142	6.983	6.988	(1.114)	133830	2.65343	700
4 1-Methylnaphthalene	142	7.077	7.076	(1.129)	125954	2.42574	640
5 1,1'-Biphenyl	154	7.424	7.423	(0.936)	6892	0.11949	32(R)
6 Acenaphthylene	152	7.806	7.811	(0.984)	173756	2.45480	650
8 Acenaphthene	154	7.959	7.963	(1.003)	99215	2.20958	590
9 Dibenzofuran	168	8.111	8.110	(1.022)	155877	2.51766	670
10 Fluorene	166	8.405	8.404	(1.059)	121971	2.40076	640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.210	9.215	(1.002)	258160	3.53247	940(R)
13 Anthracene	178	9.251	9.256	(1.006)	182683	2.57627	680
16 Fluoranthene	202	10.191	10.196	(1.109)	283853	3.79657	1000(R)
17 Pyrene	202	10.379	10.384	(0.898)	266631	3.89127	1000(R)
18 Benzo(a)anthracene	228	11.537	11.542	(0.998)	218867	3.15112	840
20 Chrysene	228	11.578	11.583	(1.002)	209736	3.35338	890(R)
21 Benzo(b)fluoranthene	252	12.888	12.893	(0.958)	247356	3.69250	980(R)
22 Benzo(k)fluoranthene	252	12.929	12.934	(0.961)	183368	2.61392	690
23 Benzo(a)pyrene	252	13.352	13.363	(0.992)	187877	2.93142	780
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.102	(1.121)	206902	3.12488	830
26 Dibenzo(a,h)anthracene	278	15.133	15.137	(1.124)	164414	2.64466	700
27 Benzo(g,h,i)perylene	276	15.561	15.572	(1.156)	201693	3.32190	880(R)

QC Flag Legend

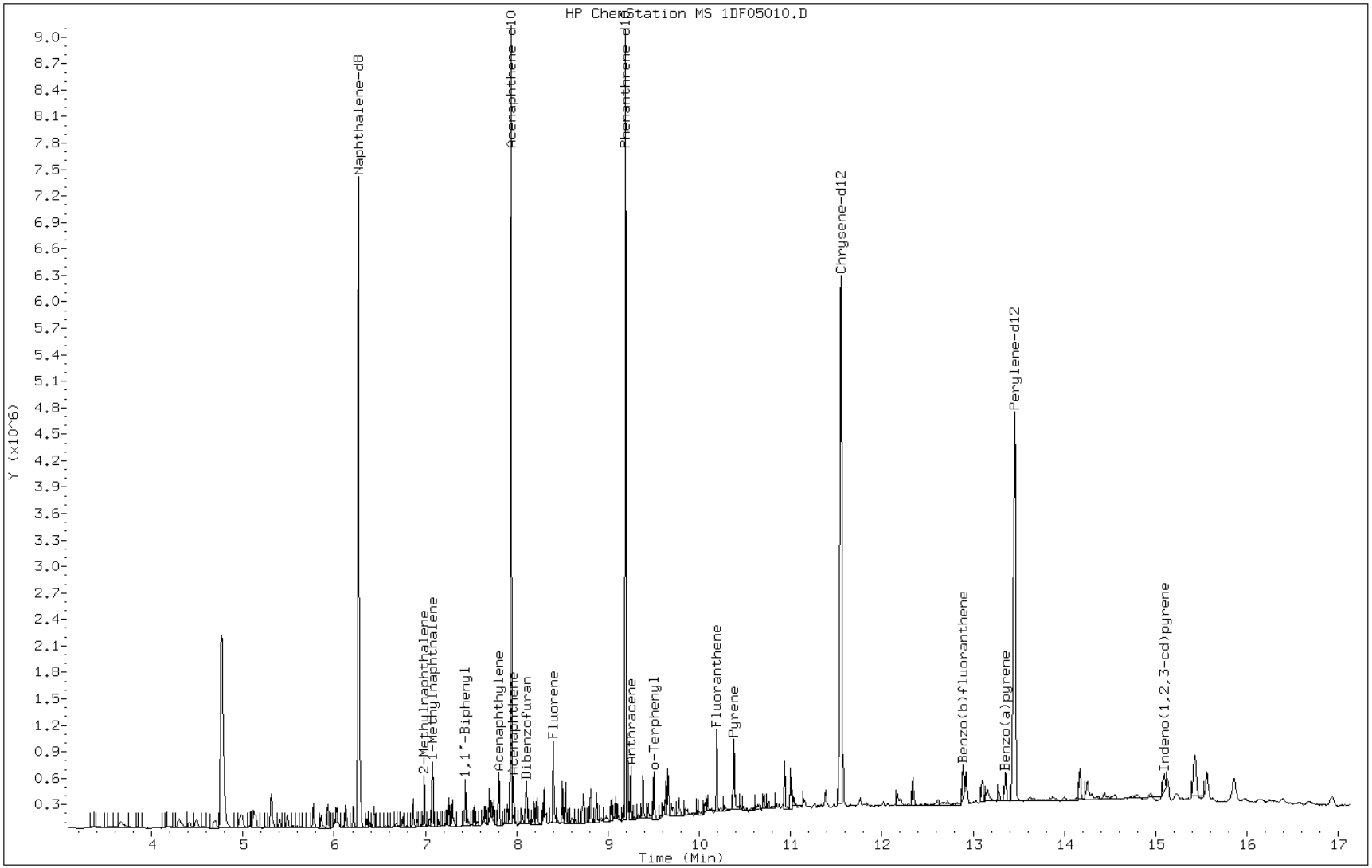
R - Spike/Surrogate failed recovery limits.

Data File: 1DF05010.D

Date: 05-JUN-2013 14:32

Client ID: Instrument: BSMSD.i

Sample Info: 680-90686-a-22-c msd Operator: SCC



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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)
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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)
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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.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMC5973 Start Date: 06/04/2013 09:41

Analysis Batch Number: 138098 End Date: 06/04/2013 20:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/04/2013 09:41	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 10:02	1		DB-5MS 250(um)
DFTPP 660-138098/2		06/04/2013 10:20	1	1CF04002.D	DB-5MS 250(um)
CCVIS 660-138098/3		06/04/2013 10:50	1	1CF04003.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 11:13	1		DB-5MS 250(um)
680-90686-28	CV0950B-CS-SP	06/04/2013 11:31	1	1CF04005.D	DB-5MS 250(um)
680-90686-29	CV1271A-CS-SP	06/04/2013 11:50	1	1CF04006.D	DB-5MS 250(um)
680-90686-30	FM0028A-CS-SP	06/04/2013 12:08	1	1CF04007.D	DB-5MS 250(um)
680-90686-31	FM0028B-CS-SP	06/04/2013 12:26	1	1CF04008.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 12:44	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:03	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:21	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:39	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 13:58	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 14:16	4		DB-5MS 250(um)
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ZZZZZ		06/04/2013 14:53	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 15:11	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 15:29	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 15:48	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 16:06	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 16:24	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 16:43	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:01	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:19	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 17:38	4		DB-5MS 250(um)
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ZZZZZ		06/04/2013 18:14	4		DB-5MS 250(um)
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ZZZZZ		06/04/2013 18:51	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 19:09	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 19:27	1		DB-5MS 250(um)
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ZZZZZ		06/04/2013 20:04	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 20:22	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 20:41	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 20:59	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMC5973 Start Date: 06/05/2013 10:31

Analysis Batch Number: 138101 End Date: 06/06/2013 00:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/05/2013 10:31	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 10:50	1		DB-5MS 250(um)
DFTPP 660-138101/2		06/05/2013 11:08	1	1CF05002.D	DB-5MS 250(um)
CCVIS 660-138101/3		06/05/2013 11:24	1	1CF05003.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 11:43	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 12:01	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 12:20	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 12:39	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 12:57	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 13:16	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 13:34	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 13:52	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 14:11	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 14:41	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 15:00	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 15:18	1		DB-5MS 250(um)
MB 660-138078/1-A		06/05/2013 16:27	1	1CF05016.D	DB-5MS 250(um)
LCS 660-138078/2-A		06/05/2013 16:45	1	1CF05017.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 17:03	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:22	1		DB-5MS 250(um)
660-54591-E-3-B MS		06/05/2013 17:40	1	1CF05020.D	DB-5MS 250(um)
660-54591-E-3-C MSD		06/05/2013 17:59	1	1CF05021.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 18:17	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 18:35	1		DB-5MS 250(um)
680-90686-31	FM0028B-CS-SP	06/05/2013 18:54	1	1CF05024.D	DB-5MS 250(um)
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ZZZZZ		06/05/2013 19:30	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 19:49	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 20:07	1		DB-5MS 250(um)
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ZZZZZ		06/05/2013 22:16	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 22:34	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 22:52	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 23:11	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 23:29	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 23:47	4		DB-5MS 250(um)
ZZZZZ		06/06/2013 00:06	1		DB-5MS 250(um)
ZZZZZ		06/06/2013 00:24	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

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)
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ZZZZZ		05/23/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:04	1		DB-5MS 250(um)
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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.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMD5973 Start Date: 06/03/2013 09:54

Analysis Batch Number: 138011 End Date: 06/03/2013 21:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/03/2013 09:54	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 10:16	1		DB-5MS 250(um)
DFTPP 660-138011/2		06/03/2013 10:41	1	1DF03002.D	DB-5MS 250(um)
CCVIS 660-138011/3		06/03/2013 10:59	1	1DF03003.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 11:29	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 11:59	10		DB-5MS 250(um)
ZZZZZ		06/03/2013 12:21	10		DB-5MS 250(um)
ZZZZZ		06/03/2013 14:40	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:03	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:25	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:48	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:10	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:33	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:56	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 17:18	20		DB-5MS 250(um)
ZZZZZ		06/03/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 18:03	1		DB-5MS 250(um)
MB 660-137975/1-A		06/03/2013 18:26	1	1DF03017.D	DB-5MS 250(um)
LCS 660-137975/2-A		06/03/2013 18:48	1	1DF03018.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:33	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 20:18	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 20:41	4		DB-5MS 250(um)
680-90723-A-1-B MS		06/03/2013 21:04	4	1DF03024.D	DB-5MS 250(um)
680-90723-A-1-C MSD		06/03/2013 21:26	4	1DF03025.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: BSMD5973 Start Date: 06/05/2013 10:50

Analysis Batch Number: 138106 End Date: 06/05/2013 21:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/05/2013 10:50	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 11:13	1		DB-5MS 250(um)
DFTPP 660-138106/2		06/05/2013 11:38	1	1DF05002.D	DB-5MS 250(um)
CCVIS 660-138106/3		06/05/2013 11:54	1	1DF05003.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 12:17	1		DB-5MS 250(um)
680-90686-21	CV0990D-CS	06/05/2013 12:39	4	1DF05005.D	DB-5MS 250(um)
MB 660-137947/1-A		06/05/2013 13:02	1	1DF05006.D	DB-5MS 250(um)
LCS 660-137947/2-A		06/05/2013 13:24	1	1DF05007.D	DB-5MS 250(um)
680-90686-22	CV0996A-CS	06/05/2013 13:47	4	1DF05008.D	DB-5MS 250(um)
680-90686-22 MS	CV0996A-CS MS	06/05/2013 14:10	4	1DF05009.D	DB-5MS 250(um)
680-90686-22 MSD	CV0996A-CS MSD	06/05/2013 14:32	4	1DF05010.D	DB-5MS 250(um)
680-90686-23	CV1002A-CS	06/05/2013 14:55	4	1DF05011.D	DB-5MS 250(um)
680-90686-24	CV1002B-CS	06/05/2013 15:17	4	1DF05012.D	DB-5MS 250(um)
680-90686-25	CV1081A-CS	06/05/2013 15:40	4	1DF05013.D	DB-5MS 250(um)
680-90686-26	CV1084A-CS	06/05/2013 16:02	4	1DF05014.D	DB-5MS 250(um)
680-90686-27	CV0950A-CS-SP	06/05/2013 16:25	4	1DF05015.D	DB-5MS 250(um)
ZZZZZ		06/05/2013 16:48	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:10	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 17:55	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 18:18	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 19:03	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		06/05/2013 19:48	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 20:11	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 20:33	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 20:56	4		DB-5MS 250(um)
ZZZZZ		06/05/2013 21:19	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Batch Number: 137947 Batch Start Date: 05/31/13 10:03 Batch Analyst:

Batch Method: 3546 Batch End Date: 06/03/13 11:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182
MB 660-137947/1		3546, 8270C LL		15.01 g	1 mL		1 mL
LCS 660-137947/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL
680-90686-A-21	CV0990D-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL
680-90686-A-22	CV0996A-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-90686-A-22 MS	CV0996A-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL
680-90686-A-22 MSD	CV0996A-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL
680-90686-A-23	CV1002A-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL
680-90686-A-24	CV1002B-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL
680-90686-A-25	CV1081A-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL
680-90686-A-26	CV1084A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-90686-C-27	CV0950A-CS-SP	3546, 8270C LL	T	15.07 g	1 mL		1 mL

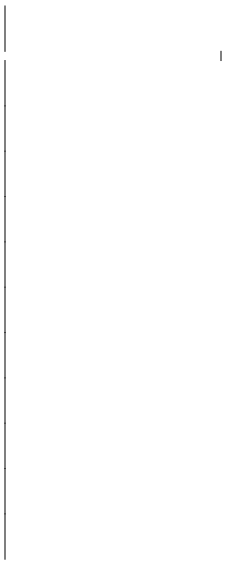
Batch Notes	
Acetone Lot #	EX ACETON BOT _53
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _58
MeCl2/Acetone Lot #	DCM/ACETON _82
Microwave Start Time	13.15/5/31/13
Microwave Stop Time	13.50/5/31/13
Na2SO4 Lot Number	EX NA2S04 A_67
Ottawa Sand Lot #	OTTAWA SAND_19
Person's name who did the prep	AG
SOP Number	T P EX 014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EX LLSURINT_182
Water Bath ID	TURBOVAP2#1/2/3/4
Water Bath Temperature	40 C

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 this reagent.

8270C LL

Nolan, Ryan



GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Batch Number: 137975 Batch Start Date: 06/03/13 06:50 Batch Analyst:

Batch Method: 3546 Batch End Date: 06/03/13 13:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182
MB 660-137975/1		3546, 8270C LL		14.99 g	1 mL		1 mL
LCS 660-137975/2		3546, 8270C LL		15.43 g	1 mL	1 mL	1 mL
680-90686-A-28	CV0950B-CS-SP	3546, 8270C LL	T	15.42 g	1 mL		1 mL
680-90686-A-29	CV1271A-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL
680-90686-A-30	FM0028A-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL
680-90686-A-31	FM0028B-CS-SP	3546, 8270C LL	T	15.37 g	1 mL		1 mL
680-90723-A-1 MS		3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL
680-90723-A-1 MSD		3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL

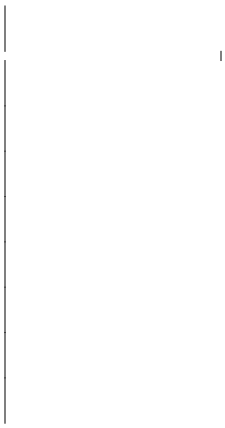
Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	DCM ACETON __82
Microwave Start Time	8.40/6/3/13
Microwave Stop Time	9.15/6/3/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 19
Person's name who did the prep	AG
SOP Number	TP-EX014
Person who witnessed spiking	THOMAS
Surrogate Lot Number	EXLLSURINT 182
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

George, Abraham



GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Batch Number: 138078 Batch Start Date: 06/05/13 08:37 Batch Analyst:

Batch Method: 3546 Batch End Date: 06/05/13 14:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00183
MB 660-138078/1		3546, 8270C LL		15.05 g	1 mL		1 mL
LCS 660-138078/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL
660-54591-E-3 MS		3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL
660-54591-E-3 MSD		3546, 8270C LL	T	15.03 g	1 mL	1 mL	1 mL
680-90686-A-31	FM0028B-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	RE-EXTRACT
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	DCM/ACETON 88
Microwave Start Time	9:46 6/5/13
Microwave Stop Time	10:21 6/5/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 20
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 183
Water Bath ID	TURBOVAP2 #3/4
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 this reagent.

8270C LL

Cerome, Saurel

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90686-2

SDG No.: 68090686-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0990D-CS	680-90686-21
CV0996A-CS	680-90686-22
CV1002A-CS	680-90686-23
CV1002B-CS	680-90686-24
CV1081A-CS	680-90686-25
CV1084A-CS	680-90686-26
CV0950A-CS-SP	680-90686-27
CV0950B-CS-SP	680-90686-28
CV1271A-CS-SP	680-90686-29
FM0028A-CS-SP	680-90686-30
FM0028B-CS-SP	680-90686-31

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90686-2

SDG Number: 68090686-2

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: 680-90686-2

SDG Number: 68090686-2

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.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/28/2013 10:54 End Date: 05/28/2013 10:54

Lab Sample ID	D/F	Type	Time	Analytes: Moist
ZZZZZZ			10:54	
ZZZZZZ			10:54	
ZZZZZZ			10:54	
ZZZZZZ			10:54	
ZZZZZZ			10:54	
ZZZZZZ			10:54	
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ZZZZZZ			10:54	
ZZZZZZ			10:54	
ZZZZZZ			10:54	
ZZZZZZ			10:54	
680-90686-21	1	T	10:54	X
680-90686-22	1	T	10:54	X
680-90686-22 MS	1	T	10:54	X
680-90686-22 MSD	1	T	10:54	X
680-90686-23	1	T	10:54	X
680-90686-24	1	T	10:54	X
680-90686-25	1	T	10:54	X
680-90686-26	1	T	10:54	X
680-90686-27	1	T	10:54	X
680-90686-28	1	T	10:54	X
680-90686-29	1	T	10:54	X
680-90686-30	1	T	10:54	X
680-90686-31	1	T	10:54	X
ZZZZZZ			10:54	
ZZZZZZ			10:54	
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ZZZZZZ			10:54	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-90686-2

SDG No.: 68090686-2

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 05/28/2013 10:54   End Date: 05/28/2013 10:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			10:54																				
ZZZZZZ			10:54																				
ZZZZZZ			10:54																				
ZZZZZZ			10:54																				
ZZZZZZ			10:54																				
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ZZZZZZ			10:54																				
ZZZZZZ			10:54																				
ZZZZZZ			10:54																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-2

SDG No.: 68090686-2

Batch Number: 137827 Batch Start Date: 05/28/13 10:54 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-90686-A-21	CV0990D-CS	Moisture	T	21	0 g	4.57 g	3.31 g
680-90686-A-22	CV0996A-CS	Moisture	T	22	0 g	4.56 g	3.70 g
680-90686-A-22 MS	CV0996A-CS	Moisture	T	22	0 g	4.56 g	3.70 g
680-90686-A-22 MSD	CV0996A-CS	Moisture	T	22	0 g	4.56 g	3.70 g
680-90686-A-23	CV1002A-CS	Moisture	T	23	0 g	4.27 g	3.21 g
680-90686-A-24	CV1002B-CS	Moisture	T	24	0 g	4.89 g	3.93 g
680-90686-A-25	CV1081A-CS	Moisture	T	25	0 g	4.77 g	3.81 g
680-90686-A-26	CV1084A-CS	Moisture	T	26	0 g	4.53 g	3.85 g
680-90686-C-27	CV0950A-CS-SP	Moisture	T	27	0 g	4.78 g	3.22 g
680-90686-A-28	CV0950B-CS-SP	Moisture	T	28	0 g	4.99 g	3.39 g
680-90686-A-29	CV1271A-CS-SP	Moisture	T	29	0 g	4.50 g	3.48 g
680-90686-A-30	FM0028A-CS-SP	Moisture	T	30	0 g	4.32 g	3.52 g
680-90686-A-31	FM0028B-CS-SP	Moisture	T	31	0 g	4.11 g	3.00 g

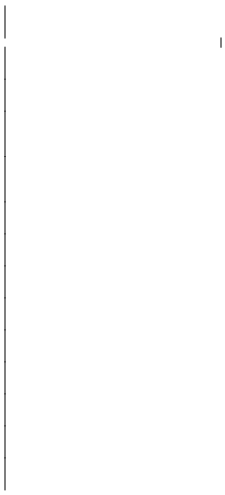
Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	5.28.13
Date samples were removed from oven	5.29.13

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 this reagent.

Moisture

Galio, Andrew



Shipping and Receiving Documents

Serial Number 64254

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	3
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.		

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

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

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
5-22-13	0914	CV0543B-CS-SP	C		X			X				
	0930	CV0543C-CS-SP	C		X			X				
	1020	HP0036A-CS-SP	C		X			X				
	1031	HP0036B-CS-SP	C		X			X				
	1045	HP0036C-CS-SP	C		X			X				
	1235	CV0990A-CS	C		X			X				
	1245	CV0990B-CS	C		X			X				
	1255	CV0990C-CS	C		X			X				
	1310	CV0990D-CS	C		X			X			X	
	1425	CV0996A-CS	C		X			X				
	1455	CV1002A-CS	C		X			X				
	1505	CV1002B-CS	C		X			X				

680-90686-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-23-13	1530	Carol McNulty	5/28/13	1500			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Carol McNulty	5/24/13	0840						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/24/13	0745	YES ○ NO ○ 2.0°C		680-90686	

TAL8240-680 (1008)

Serial Number 64255

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	200S1TB-1356	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 OF 3

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 1L PAH	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								PRESERVATIVE			
5-22-13	1350	CV1051A-CS	C		X			X			
	1405	CV1054A-CS	C		X			X			
	1307	CVØ95ØA-CS-SP	C		X			X	X		
	1322	CVØ95ØB-CS-SP	C		X			X			
	1509	CV127ØA-CS-SP	C		X			X			
	1407	FMØØ28A-CS-SP	C		X			X			
	1421	FMØØ28B-CS-SP	C		X			X			
	1025	CVØ992B-CS (sieve)	C		X				X		
	1310	CVØ99ØD-CS (sieve)	C		X				X		
	1307	CVØ95ØA-CS-SP (sieve)	C		X				X		

680-90686-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-23-13	1530	Carol McNulty	5/28/13	1500			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Carol McNulty	5/24/13	0810						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/29/13	0745	YES ○ NO ○ 2.0°C		680-90686	

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-2
SDG Number: 68090686-2

Login Number: 90686
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-90686-2
SDG Number: 68090686-2

Login Number: 90686
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 05/24/13 04:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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: 680-90686-2
TestAmerica Sample Delivery Group: 68090686-2
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:
6/6/2013 6:17:53 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: 680-90686-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90686-2

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 05/24/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0990D-CS (680-90686-21), CV0996A-CS (680-90686-22), CV1002A-CS (680-90686-23), CV1002B-CS (680-90686-24), CV1081A-CS (680-90686-25), CV1084A-CS (680-90686-26), CV0950A-CS-SP (680-90686-27), CV0950B-CS-SP (680-90686-28), CV1271A-CS-SP (680-90686-29), FM0028A-CS-SP (680-90686-30) and FM0028B-CS-SP (680-90686-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/31/2013, 06/03/2013 and 06/05/2013 and analyzed on 06/04/2013 and 06/05/2013

Samples CV0990D-CS (680-90686-21)[4X], CV0996A-CS (680-90686-22)[4X], CV1002A-CS (680-90686-23)[4X], CV1002B-CS (680-90686-24)[4X], CV1081A-CS (680-90686-25)[4X], CV1084A-CS (680-90686-26)[4X] and CV0950A-CS-SP (680-90686-27)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-137975/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Phenanthrene and Pyrene were detected in method blank MB 660-138078/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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: 680-90686-2
SDG: 68090686-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90686-21	CV0990D-CS	Solid	05/22/13 13:10	05/24/13 08:40
680-90686-22	CV0996A-CS	Solid	05/22/13 14:25	05/24/13 08:40
680-90686-23	CV1002A-CS	Solid	05/22/13 14:55	05/24/13 08:40
680-90686-24	CV1002B-CS	Solid	05/22/13 15:05	05/24/13 08:40
680-90686-25	CV1081A-CS	Solid	05/22/13 13:50	05/24/13 08:40
680-90686-26	CV1084A-CS	Solid	05/22/13 14:05	05/24/13 08:40
680-90686-27	CV0950A-CS-SP	Solid	05/22/13 13:07	05/24/13 08:40
680-90686-28	CV0950B-CS-SP	Solid	05/22/13 13:22	05/24/13 08:40
680-90686-29	CV1271A-CS-SP	Solid	05/22/13 15:09	05/24/13 08:40
680-90686-30	FM0028A-CS-SP	Solid	05/22/13 14:07	05/24/13 08:40
680-90686-31	FM0028B-CS-SP	Solid	05/22/13 14:21	05/24/13 08:40

Method Summary

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

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.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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: 680-90686-2
SDG: 68090686-2

Client Sample ID: CV0990D-CS

Lab Sample ID: 680-90686-21

Date Collected: 05/22/13 13:10
Date Received: 05/24/13 08:40

Matrix: Solid
Percent Solids: 72.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Acenaphthylene	**34**	**J**	220	27	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Anthracene	**120**		46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[a]anthracene	**490**		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[a]pyrene	**460**		56	28	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[b]fluoranthene	**780**		66	33	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[g,h,i]perylene	**410**		110	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Benzo[k]fluoranthene	**230**		43	20	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Chrysene	**710**		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Dibenz(a,h)anthracene	**130**		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Fluoranthene	**990**		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Fluorene	**55**	**J**	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Indeno[1,2,3-cd]pyrene	**360**		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
1-Methylnaphthalene	**190**	**J**	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
2-Methylnaphthalene	**270**		220	38	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Naphthalene	**150**	**J**	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Phenanthrene	**790**		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4
Pyrene	**860**		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 12:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*05/31/13 10:03*	*06/05/13 12:39*	*4*

Client Sample ID: CV0996A-CS

Lab Sample ID: 680-90686-22

Date Collected: 05/22/13 14:25
Date Received: 05/24/13 08:40

Matrix: Solid
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Acenaphthylene	**50**	**J**	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Anthracene	**77**		41	21	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[a]anthracene	**340**		39	19	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[a]pyrene	**350**		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[b]fluoranthene	**520**		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[g,h,i]perylene	**340**		98	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Benzo[k]fluoranthene	**200**		39	18	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Chrysene	**450**		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Dibenz(a,h)anthracene	**110**		98	20	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Fluoranthene	**600**		98	20	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Fluorene	**26**	**J**	98	20	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Indeno[1,2,3-cd]pyrene	**310**		98	35	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
1-Methylnaphthalene	**160**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
2-Methylnaphthalene	**200**		200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Naphthalene	**150**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Phenanthrene	**450**		39	19	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4
Pyrene	**570**		98	18	ug/Kg	☼	05/31/13 10:03	06/05/13 13:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*05/31/13 10:03*	*06/05/13 13:47*	*4*

Client Sample ID: CV1002A-CS

Lab Sample ID: 680-90686-23

Date Collected: 05/22/13 14:55
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Acenaphthylene	**160**	**J**	210	26	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Anthracene	**150**		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[a]anthracene	**380**		42	20	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[a]pyrene	**420**		55	27	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[b]fluoranthene	**640**		64	32	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[g,h,i]perylene	**400**		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Benzo[k]fluoranthene	**250**		42	19	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Chrysene	**560**		47	24	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Dibenz(a,h)anthracene	**140**		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Fluoranthene	**700**		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Fluorene	**28**	**J**	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Indeno[1,2,3-cd]pyrene	**350**		110	37	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
1-Methylnaphthalene	**140**	**J**	210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
2-Methylnaphthalene	**170**	**J**	210	37	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Naphthalene	**130**	**J**	210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Phenanthrene	**480**		42	20	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4
Pyrene	**640**		110	19	ug/Kg	☼	05/31/13 10:03	06/05/13 14:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*05/31/13 10:03*	*06/05/13 14:55*	*4*

Client Sample ID: CV1002B-CS

Lab Sample ID: 680-90686-24

Date Collected: 05/22/13 15:05
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Acenaphthylene	**240**		200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Anthracene	**200**		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[a]anthracene	**410**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[a]pyrene	**510**		52	26	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[b]fluoranthene	**880**		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[g,h,i]perylene	**470**		99	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Benzo[k]fluoranthene	**290**		40	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Chrysene	**640**		45	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Dibenz(a,h)anthracene	**130**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Fluoranthene	**970**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Fluorene	**28**	**J**	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Indeno[1,2,3-cd]pyrene	**440**		99	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
1-Methylnaphthalene	**180**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
2-Methylnaphthalene	**210**		200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Phenanthrene	**640**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4
Pyrene	**860**		99	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*30 - 130*	*05/31/13 10:03*	*06/05/13 15:17*	*4*

Client Sample ID: CV1081A-CS

Lab Sample ID: 680-90686-25

Date Collected: 05/22/13 13:50
Matrix: Solid
Date Received: 05/24/13 08:40
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	490	U	490	99	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Acenaphthylene	**74**	**J**	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Anthracene	**170**		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[a]anthracene	**660**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[a]pyrene	**660**		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[b]fluoranthene	**1100**		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[g,h,i]perylene	**470**		99	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Benzo[k]fluoranthene	**330**		40	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Chrysene	**820**		45	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Dibenz(a,h)anthracene	**170**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Fluoranthene	**1300**		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Fluorene	**41**	**J**	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Indeno[1,2,3-cd]pyrene	**460**		99	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
1-Methylnaphthalene	**130**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
2-Methylnaphthalene	**150**	**J**	200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Naphthalene	**120**	**J**	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Phenanthrene	**800**		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4
Pyrene	**1100**		99	18	ug/Kg	☼	05/31/13 10:03	06/05/13 15:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*05/31/13 10:03*	*06/05/13 15:40*	*4*

Client Sample ID: CV1084A-CS

Lab Sample ID: 680-90686-26

Date Collected: 05/22/13 14:05
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Acenaphthylene	**31**	**J**	190	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Anthracene	**44**		40	20	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[a]anthracene	**150**		38	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[a]pyrene	**170**		49	25	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[b]fluoranthene	**250**		58	29	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[g,h,i]perylene	**120**		94	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Benzo[k]fluoranthene	**80**		38	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Chrysene	**200**		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Dibenz(a,h)anthracene	**55**	**J**	94	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Fluoranthene	**200**		94	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Fluorene	94	U	94	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Indeno[1,2,3-cd]pyrene	**130**		94	34	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
1-Methylnaphthalene	**31**	**J**	190	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
2-Methylnaphthalene	**38**	**J**	190	34	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Naphthalene	**31**	**J**	190	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Phenanthrene	**120**		38	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4
Pyrene	**180**		94	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*05/31/13 10:03*	*06/05/13 16:02*	*4*

Client Sample ID: CV0950A-CS-SP

Lab Sample ID: 680-90686-27

Date Collected: 05/22/13 13:07
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 67.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Acenaphthylene	**53**	**J**	240	30	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Anthracene	**170**		50	25	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[a]anthracene	**480**		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[a]pyrene	**490**		61	31	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[b]fluoranthene	**800**		72	36	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[g,h,i]perylene	**310**		120	26	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Benzo[k]fluoranthene	**260**		47	21	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Chrysene	**620**		53	27	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Dibenz(a,h)anthracene	**130**		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Fluoranthene	**840**		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Fluorene	**67**	**J**	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Indeno[1,2,3-cd]pyrene	**350**		120	42	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
1-Methylnaphthalene	**120**	**J**	240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
2-Methylnaphthalene	**170**	**J**	240	42	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Naphthalene	**170**	**J**	240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Phenanthrene	**640**		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4
Pyrene	**700**		120	22	ug/Kg	☼	05/31/13 10:03	06/05/13 16:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*05/31/13 10:03*	*06/05/13 16:25*	*4*

Client Sample ID: CV0950B-CS-SP

Lab Sample ID: 680-90686-28

Date Collected: 05/22/13 13:22
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 67.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Acenaphthylene	**17**	**J**	57	7.2	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Anthracene	**27**		12	6.0	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[a]anthracene	**110**		11	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[a]pyrene	**100**		15	7.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[b]fluoranthene	**190**		17	8.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[g,h,i]perylene	**94**		29	6.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Benzo[k]fluoranthene	**78**		11	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Chrysene	**150**		13	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Dibenz(a,h)anthracene	**30**		29	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Fluoranthene	**210**		29	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Fluorene	**15**	**J**	29	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Indeno[1,2,3-cd]pyrene	**81**		29	10	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
1-Methylnaphthalene	**33**	**J**	57	6.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
2-Methylnaphthalene	**60**		57	10	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Naphthalene	**52**	**J**	57	6.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Phenanthrene	**140**	**B**	11	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1
Pyrene	**170**		29	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*06/03/13 06:50*	*06/04/13 11:31*	*1*

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

Client Sample ID: CV1271A-CS-SP

Lab Sample ID: 680-90686-29

Date Collected: 05/22/13 15:09
Matrix: Solid
Date Received: 05/24/13 08:40
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	☼	06/03/13 06:50	06/04/13 11:50	1
Acenaphthylene	**56**		51	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Anthracene	**67**		11	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[a]anthracene	**350**		10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[a]pyrene	**300**		13	6.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[b]fluoranthene	**530**		16	7.8	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[g,h,i]perylene	**250**		26	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Benzo[k]fluoranthene	**220**		10	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Chrysene	**420**		12	5.8	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Dibenz(a,h)anthracene	**77**		26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Fluoranthene	**570**		26	5.1	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Fluorene	**20**	**J**	26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Indeno[1,2,3-cd]pyrene	**180**		26	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
1-Methylnaphthalene	**82**		51	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
2-Methylnaphthalene	**94**		51	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Naphthalene	**75**		51	5.6	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Phenanthrene	**360**	**B**	10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1
Pyrene	**490**		26	4.7	ug/Kg	☼	06/03/13 06:50	06/04/13 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*06/03/13 06:50*	*06/04/13 11:50*	*1*

Client Sample ID: FM0028A-CS-SP

Lab Sample ID: 680-90686-30

Date Collected: 05/22/13 14:07
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 81.5

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	☼	06/03/13 06:50	06/04/13 12:08	1
Acenaphthylene	**11**	**J**	49	6.1	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Anthracene	**30**		10	5.1	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[a]anthracene	**170**		9.8	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[a]pyrene	**150**		13	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[b]fluoranthene	**290**		15	7.5	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[g,h,i]perylene	**120**		24	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Benzo[k]fluoranthene	**69**		9.8	4.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Chrysene	**200**		11	5.5	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Dibenz(a,h)anthracene	**36**		24	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Fluoranthene	**250**		24	4.9	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Fluorene	**12**	**J**	24	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Indeno[1,2,3-cd]pyrene	**120**		24	8.7	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
1-Methylnaphthalene	**56**		49	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
2-Methylnaphthalene	**68**		49	8.7	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Naphthalene	**54**		49	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Phenanthrene	**140**	**B**	9.8	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1
Pyrene	**220**		24	4.5	ug/Kg	☼	06/03/13 06:50	06/04/13 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*06/03/13 06:50*	*06/04/13 12:08*	*1*

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

Client Sample ID: FM0028B-CS-SP
Date Collected: 05/22/13 14:21
Date Received: 05/24/13 08:40

Lab Sample ID: 680-90686-31
Matrix: Solid
Percent Solids: 73.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Acenaphthylene	**15**	**J**	54	6.8	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Anthracene	**14**		11	5.7	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[a]anthracene	**88**		11	5.3	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[a]pyrene	**63**		14	7.1	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[b]fluoranthene	**120**		17	8.3	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[g,h,i]perylene	**55**		27	6.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Benzo[k]fluoranthene	**31**		11	4.9	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Chrysene	**97**		12	6.1	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Dibenz(a,h)anthracene	**17**	**J**	27	5.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Fluoranthene	**120**		27	5.4	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Fluorene	**23**	**J**	27	5.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Indeno[1,2,3-cd]pyrene	**47**		27	9.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
1-Methylnaphthalene	**41**	**J**	54	6.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
2-Methylnaphthalene	**54**		54	9.6	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Naphthalene	**56**		54	6.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Phenanthrene	**110**	**B**	11	5.3	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1
Pyrene	**100**	**B**	27	5.0	ug/Kg	☼	06/05/13 08:37	06/05/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*06/05/13 08:37*	*06/05/13 18:54*	*1*

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

Lab Sample ID: MB 660-137947/1-A
Matrix: Solid
Analysis Batch: 138106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Fluorene	20	U	20	4.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Naphthalene	40	U	40	4.4	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		05/31/13 10:03	06/05/13 13:02	1
Pyrene	20	U	20	3.7	ug/Kg		05/31/13 10:03	06/05/13 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*05/31/13 10:03*	*06/05/13 13:02*	*1*

Lab Sample ID: LCS 660-137947/2-A
Matrix: Solid
Analysis Batch: 138106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	665	529		ug/Kg		79	39 - 130
Acenaphthylene	665	576		ug/Kg		87	38 - 130
Anthracene	665	591		ug/Kg		89	37 - 130
Benzo[a]anthracene	665	545		ug/Kg		82	40 - 130
Benzo[a]pyrene	665	521		ug/Kg		78	49 - 130
Benzo[b]fluoranthene	665	588		ug/Kg		88	37 - 130
Benzo[g,h,i]perylene	665	618		ug/Kg		93	32 - 130
Benzo[k]fluoranthene	665	562		ug/Kg		84	32 - 130
Chrysene	665	575		ug/Kg		86	41 - 130
Dibenz(a,h)an hracene	665	572		ug/Kg		86	27 - 130
Fluoranthene	665	572		ug/Kg		86	40 - 130
Fluorene	665	568		ug/Kg		85	40 - 130
Indeno[1,2,3-cd]pyrene	665	537		ug/Kg		81	30 - 130
1-Methylnaphthalene	665	505		ug/Kg		76	31 - 130
2-Methylnaphthalene	665	535		ug/Kg		80	33 - 130
Naphthalene	665	529		ug/Kg		80	36 - 130
Phenanthrene	665	569		ug/Kg		85	42 - 130
Pyrene	665	613		ug/Kg		92	44 - 130

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

Lab Sample ID: LCS 660-137947/2-A
Matrix: Solid
Analysis Batch: 138106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137947

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	79		30 - 130

Lab Sample ID: 680-90686-22 MS
Matrix: Solid
Analysis Batch: 138106

Client Sample ID: CV0996A-CS
Prep Type: Total/NA
Prep Batch: 137947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	490	U	819	755		ug/Kg	☼	92	39 - 130
Acenaphthylene	50	J	819	847		ug/Kg	☼	97	38 - 130
Anthracene	77		819	874		ug/Kg	☼	97	37 - 130
Benzo[a]anthracene	340		819	1060		ug/Kg	☼	88	40 - 130
Benzo[a]pyrene	350		819	1020		ug/Kg	☼	82	49 - 130
Benzo[b]fluoranthene	520		819	1210		ug/Kg	☼	84	37 - 130
Benzo[g,h,i]perylene	340		819	1190		ug/Kg	☼	103	32 - 130
Benzo[k]fluoranthene	200		819	977		ug/Kg	☼	95	32 - 130
Chrysene	450		819	1200		ug/Kg	☼	92	41 - 130
Dibenz(a,h)an hracene	110		819	888		ug/Kg	☼	95	27 - 130
Fluoranthene	600		819	1300		ug/Kg	☼	85	40 - 130
Fluorene	26	J	819	814		ug/Kg	☼	96	40 - 130
Indeno[1,2,3-cd]pyrene	310		819	1100		ug/Kg	☼	96	30 - 130
1-Methylnaphthalene	160	J	819	854		ug/Kg	☼	85	31 - 130
2-Methylnaphthalene	200		819	940		ug/Kg	☼	90	33 - 130
Naphthalene	150	J	819	844		ug/Kg	☼	85	36 - 130
Phenanthrene	450		819	1220		ug/Kg	☼	94	42 - 130
Pyrene	570		819	1370		ug/Kg	☼	97	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	85		30 - 130

Lab Sample ID: 680-90686-22 MSD
Matrix: Solid
Analysis Batch: 138106

Client Sample ID: CV0996A-CS
Prep Type: Total/NA
Prep Batch: 137947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	490	U	819	724		ug/Kg	☼	88	39 - 130	4	40
Acenaphthylene	50	J	819	804		ug/Kg	☼	92	38 - 130	5	40
Anthracene	77		819	844		ug/Kg	☼	94	37 - 130	4	40
Benzo[a]anthracene	340		819	1030		ug/Kg	☼	84	40 - 130	3	40
Benzo[a]pyrene	350		819	960		ug/Kg	☼	74	49 - 130	6	40
Benzo[b]fluoranthene	520		819	1210		ug/Kg	☼	84	37 - 130	0	40
Benzo[g,h,i]perylene	340		819	1090		ug/Kg	☼	91	32 - 130	9	40
Benzo[k]fluoranthene	200		819	856		ug/Kg	☼	80	32 - 130	13	40
Chrysene	450		819	1100		ug/Kg	☼	79	41 - 130	9	40
Dibenz(a,h)an hracene	110		819	866		ug/Kg	☼	92	27 - 130	2	40
Fluoranthene	600		819	1240		ug/Kg	☼	78	40 - 130	5	40
Fluorene	26	J	819	786		ug/Kg	☼	93	40 - 130	3	40
Indeno[1,2,3-cd]pyrene	310		819	1020		ug/Kg	☼	87	30 - 130	7	40
1-Methylnaphthalene	160	J	819	795		ug/Kg	☼	77	31 - 130	7	40

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

Lab Sample ID: 680-90686-22 MSD
Matrix: Solid
Analysis Batch: 138106

Client Sample ID: CV0996A-CS
Prep Type: Total/NA
Prep Batch: 137947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	200		819	869		ug/Kg	☼	82	33 - 130	8	40
Naphthalene	150	J	819	801		ug/Kg	☼	80	36 - 130	5	40
Phenanthrene	450		819	1160		ug/Kg	☼	86	42 - 130	5	40
Pyrene	570		819	1270		ug/Kg	☼	86	44 - 130	7	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*85*		*30 - 130*

Lab Sample ID: MB 660-137975/1-A
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Fluorene	20	U	20	4.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Naphthalene	40	U	40	4.4	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Phenanthrene	6.92	J	8.0	3.9	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Pyrene	20	U	20	3.7	ug/Kg		06/03/13 06:50	06/03/13 18:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*30 - 130*	*06/03/13 06:50*	*06/03/13 18:26*	*1*

Lab Sample ID: LCS 660-137975/2-A
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	648	608		ug/Kg		94	39 - 130
Acenaphthylene	648	654		ug/Kg		101	38 - 130
Anthracene	648	676		ug/Kg		104	37 - 130
Benzo[a]anthracene	648	622		ug/Kg		96	40 - 130
Benzo[a]pyrene	648	602		ug/Kg		93	49 - 130
Benzo[b]fluoranthene	648	684		ug/Kg		105	37 - 130
Benzo[g,h,i]perylene	648	599		ug/Kg		92	32 - 130
Benzo[k]fluoranthene	648	629		ug/Kg		97	32 - 130

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

Lab Sample ID: LCS 660-137975/2-A
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	648	642		ug/Kg		99	41 - 130
Dibenz(a,h)an hracene	648	617		ug/Kg		95	27 - 130
Fluoranthene	648	659		ug/Kg		102	40 - 130
Fluorene	648	656		ug/Kg		101	40 - 130
Indeno[1,2,3-cd]pyrene	648	574		ug/Kg		89	30 - 130
1-Methylnaphthalene	648	569		ug/Kg		88	31 - 130
2-Methylnaphthalene	648	610		ug/Kg		94	33 - 130
Naphthalene	648	588		ug/Kg		91	36 - 130
Phenanthrene	648	660		ug/Kg		102	42 - 130
Pyrene	648	681		ug/Kg		105	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*97*		*30 - 130*

Lab Sample ID: MB 660-138078/1-A
Matrix: Solid
Analysis Batch: 138101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Fluorene	20	U	20	4.1	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Naphthalene	40	U	40	4.4	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Phenanthrene	5.02	J	8.0	3.9	ug/Kg		06/05/13 08:37	06/05/13 16:27	1
Pyrene	4.02	J	20	3.7	ug/Kg		06/05/13 08:37	06/05/13 16:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*06/05/13 08:37*	*06/05/13 16:27*	*1*

Lab Sample ID: LCS 660-138078/2-A
Matrix: Solid
Analysis Batch: 138101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	548		ug/Kg		82	39 - 130
Acenaphthylene	664	545		ug/Kg		82	38 - 130

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

Lab Sample ID: LCS 660-138078/2-A
Matrix: Solid
Analysis Batch: 138101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	664	534		ug/Kg		80	37 - 130
Benzo[a]anthracene	664	569		ug/Kg		86	40 - 130
Benzo[a]pyrene	664	520		ug/Kg		78	49 - 130
Benzo[b]fluoranthene	664	611		ug/Kg		92	37 - 130
Benzo[g,h,i]perylene	664	560		ug/Kg		84	32 - 130
Benzo[k]fluoranthene	664	527		ug/Kg		79	32 - 130
Chrysene	664	533		ug/Kg		80	41 - 130
Dibenz(a,h)an hracene	664	594		ug/Kg		89	27 - 130
Fluoranthene	664	557		ug/Kg		84	40 - 130
Fluorene	664	533		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	664	457		ug/Kg		69	30 - 130
1-Methylnaphthalene	664	529		ug/Kg		80	31 - 130
2-Methylnaphthalene	664	529		ug/Kg		80	33 - 130
Naphthalene	664	422		ug/Kg		63	36 - 130
Phenanthrene	664	504		ug/Kg		76	42 - 130
Pyrene	664	592		ug/Kg		89	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*83*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 137947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-21	CV0990D-CS	Total/NA	Solid	3546	
680-90686-22	CV0996A-CS	Total/NA	Solid	3546	
680-90686-22 MS	CV0996A-CS	Total/NA	Solid	3546	
680-90686-22 MSD	CV0996A-CS	Total/NA	Solid	3546	
680-90686-23	CV1002A-CS	Total/NA	Solid	3546	
680-90686-24	CV1002B-CS	Total/NA	Solid	3546	
680-90686-25	CV1081A-CS	Total/NA	Solid	3546	
680-90686-26	CV1084A-CS	Total/NA	Solid	3546	
680-90686-27	CV0950A-CS-SP	Total/NA	Solid	3546	
LCS 660-137947/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137947/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 137975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-28	CV0950B-CS-SP	Total/NA	Solid	3546	
680-90686-29	CV1271A-CS-SP	Total/NA	Solid	3546	
680-90686-30	FM0028A-CS-SP	Total/NA	Solid	3546	
LCS 660-137975/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137975/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-137975/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137975
MB 660-137975/1-A	Method Blank	Total/NA	Solid	8270C LL	137975

Prep Batch: 138078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-31	FM0028B-CS-SP	Total/NA	Solid	3546	
LCS 660-138078/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138078/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-28	CV0950B-CS-SP	Total/NA	Solid	8270C LL	137975
680-90686-29	CV1271A-CS-SP	Total/NA	Solid	8270C LL	137975
680-90686-30	FM0028A-CS-SP	Total/NA	Solid	8270C LL	137975

Analysis Batch: 138101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-31	FM0028B-CS-SP	Total/NA	Solid	8270C LL	138078
LCS 660-138078/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138078
MB 660-138078/1-A	Method Blank	Total/NA	Solid	8270C LL	138078

Analysis Batch: 138106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-21	CV0990D-CS	Total/NA	Solid	8270C LL	137947
680-90686-22	CV0996A-CS	Total/NA	Solid	8270C LL	137947
680-90686-22 MS	CV0996A-CS	Total/NA	Solid	8270C LL	137947
680-90686-22 MSD	CV0996A-CS	Total/NA	Solid	8270C LL	137947
680-90686-23	CV1002A-CS	Total/NA	Solid	8270C LL	137947
680-90686-24	CV1002B-CS	Total/NA	Solid	8270C LL	137947

GC/MS Semi VOA (Continued)

Analysis Batch: 138106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-25	CV1081A-CS	Total/NA	Solid	8270C LL	137947
680-90686-26	CV1084A-CS	Total/NA	Solid	8270C LL	137947
680-90686-27	CV0950A-CS-SP	Total/NA	Solid	8270C LL	137947
LCS 660-137947/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137947
MB 660-137947/1-A	Method Blank	Total/NA	Solid	8270C LL	137947

General Chemistry

Analysis Batch: 137827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-21	CV0990D-CS	Total/NA	Solid	Moisture	
680-90686-22	CV0996A-CS	Total/NA	Solid	Moisture	
680-90686-22 MS	CV0996A-CS	Total/NA	Solid	Moisture	
680-90686-22 MSD	CV0996A-CS	Total/NA	Solid	Moisture	
680-90686-23	CV1002A-CS	Total/NA	Solid	Moisture	
680-90686-24	CV1002B-CS	Total/NA	Solid	Moisture	
680-90686-25	CV1081A-CS	Total/NA	Solid	Moisture	
680-90686-26	CV1084A-CS	Total/NA	Solid	Moisture	
680-90686-27	CV0950A-CS-SP	Total/NA	Solid	Moisture	
680-90686-28	CV0950B-CS-SP	Total/NA	Solid	Moisture	
680-90686-29	CV1271A-CS-SP	Total/NA	Solid	Moisture	
680-90686-30	FM0028A-CS-SP	Total/NA	Solid	Moisture	
680-90686-31	FM0028B-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

Client Sample ID: CV0990D-CS

Lab Sample ID: 680-90686-21
Date Collected: 05/22/13 13:10
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 12:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0996A-CS

Lab Sample ID: 680-90686-22
Date Collected: 05/22/13 14:25
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 13:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1002A-CS

Lab Sample ID: 680-90686-23
Date Collected: 05/22/13 14:55
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 14:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1002B-CS

Lab Sample ID: 680-90686-24
Date Collected: 05/22/13 15:05
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 15:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1081A-CS

Lab Sample ID: 680-90686-25
Date Collected: 05/22/13 13:50
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 15:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1084A-CS

Lab Sample ID: 680-90686-26

Date Collected: 05/22/13 14:05
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 16:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0950A-CS-SP

Lab Sample ID: 680-90686-27

Date Collected: 05/22/13 13:07
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 67.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 16:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0950B-CS-SP

Lab Sample ID: 680-90686-28

Date Collected: 05/22/13 13:22
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 67.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 11:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1271A-CS-SP

Lab Sample ID: 680-90686-29

Date Collected: 05/22/13 15:09
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 11:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: FM0028A-CS-SP

Lab Sample ID: 680-90686-30

Date Collected: 05/22/13 14:07
Matrix: Solid
Date Received: 05/24/13 08:40
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 12:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

Client Sample ID: FM0028B-CS-SP
Date Collected: 05/22/13 14:21
Date Received: 05/24/13 08:40

Lab Sample ID: 680-90686-31
Matrix: Solid
Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138078	06/05/13 08:37	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 18:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Laboratory References:

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

Serial Number 64254

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
35th Ave Removal	20051148-1356	AL			2 OF 3
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.			

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

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 (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-22-13	0914	CV0543B-CS-SP	C		X			X			
	0930	CV0543C-CS-SP	C		X			X			
	1020	HP0036A-CS-SP	C		X			X			
	1031	HP0036B-CS-SP	C		X			X			
	1045	HP0036C-CS-SP	C		X			X			
	1235	CV0990A-CS	C		X			X			
	1245	CV0990B-CS	C		X			X			
	1255	CV0990C-CS	C		X			X			
	1310	CV0990D-CS	C		X			X	X		
	1425	CV0996A-CS	C		X			X			
	1455	CV1002A-CS	C		X			X			
	1505	CV1002B-CS	C		X			X			

680-90686-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-23-13	1530	Carol McNulty	5/24/13	1500			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Carol McNulty	5/24/13	0840						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/24/13	0945	YES ○ NO ○ 2.0°C		680-90686	

TAL8240-680 (1008)

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Serial Number 64255

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		

PAGE 3 OF 3

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

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: TL PAH	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
					PRESERVATIVE						
5-22-13	1350	CV1051A-CS	C		X			X			
	1405	CV1084A-CS	C		X			X			
	1307	CVJ950A-CS-SP	C		X			X	X		
	1322	CVJ950B-CS-SP	C		X			X			
	1509	CV1271A-CS-SP	C		X			X			
	1407	FM0028A-CS-SP	C		X			X			
	1421	FM0028B-CS-SP	C		X			X			
	1025	CV0992B-CS (sieve)	C		X				X		
	1310	CV0990D-CS (sieve)	C		X				X		
	1307	CV0950A-CS-SP (sieve)	C		X				X		

680-90686-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-23-13	1530	Carol McNulty	5/28/13	1500			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/29/13	0745						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/29/13	0745	YES ○ NO ○	2.0°C	680-90686	

TAL8240-680 (1008)

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6/6/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-2
SDG Number: 68090686-2

Login Number: 90686
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have 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: 680-90686-2
SDG Number: 68090686-2

Login Number: 90686
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 05/24/13 04:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-90686-2
SDG: 68090686-2

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: 680-90686-2
SDG: 68090686-2

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