REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89328-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/11/2013
Reviewer:	Karen Marie Trujillo, URS Group	Date:	05/06/2013
Concurrence[2]:	Nicole Lancaster / Martha Meyers-Lee, , URS Group	Date:	05/08/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 04113-RB-Bowls + Spoons (680-89275-1).	

[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, 04113-RB-Bowls + Spoons (680-89275-1), was collected during the week of 4/08/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89275-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			HP0040A-CSD (680-89328-2) is a field duplicate of HP0040A-CS (680-89328-1).	
15. Was precision deemed acceptable as defined by the project plans?	✓			Refer to **Attachment B** (Field Duplicate Evaluation)	
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMC5973 • Initial Calibration: 04/11/2013 • ICV: 04/11/13 @ 14:25 • CCV: 04/19/13 @ 11:24 • CCV: 04/22/13 @ 11:50 • Instrument ID: BSMD5973 • Initial Calibration: 04/04/2013 • ICV: 04/04/13 @ 16:27 • CCV: 04/22/13 @ 10:43 • CCV: 04/23/13 @ 13:06	
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		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @-23.7 %D (Lab: ≤35.0, Project: ≤20). A negative bias is indicated by the ICV percent	J, UJ

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
$r^2 \geq 0.99$, 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: $\leq$20%D ($\leq$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				difference; therefore, benzo[a]pyrene sample results in the associated samples[3] were qualified as estimated (J, UJ).	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >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 136637: 680-89238-8 (HP0202C-CS-SP), MS/MSD • Prep Batch 136551: 680-89220-41 (HP0142B-CS-SP) MS/MSD. Lab sample 680-89220-41 is a project-specific sample (HP0142B-CS-SP) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89220-3. • Prep Batch 136604: 680-89275-21 (CV0661A-CS-SP), MS/MSD. Lab sample 680-89275-21 is a project-specific sample (CV0661A-CS-SP) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89275-2.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are*		✓		HP0202C-CS-SP (680-89238-8): • Fluoranthene @ 82 and 188 %R (40-130).	

[3] Associated samples: 680-89328-13 through -20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
evaluated that are reported under this Job ID are evaluated. • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results				Qualification of data not required[4]. • 1-Methylnaphthalene @ 45 and 30 %R (31-130). Qualification of data not required[4]. • 2-Methylnaphthalene @ 50 and 32 %R (33-130). Qualification of data not required[4]. • Pyrene @ 62 and 158 %R (44-130). Qualification of data not required[4].	
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.		✓		HP0202C-CS-SP (680-89238-8): • Benzo[a]pyrene @ 42 %RPD (≤40). J-Flag • Chrysene @ 46 %RPD (≤40). J-Flag • Fluoranthene @ 62 %RPD (≤40). J-Flag • Pyrene @ 62 %RPD (≤40). J-Flag	J
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <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	✓				

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89328-1	HP0040A-CS	Solid	04/11/13 08:50	04/13/13 09:27
680-89328-2	HP0040A-CSD	Solid	04/11/13 08:50	04/13/13 09:27
680-89328-3	HP0040B-CS	Solid	04/11/13 09:00	04/13/13 09:27
680-89328-4	HP0083A-CS-SP	Solid	04/11/13 09:53	04/13/13 09:27
680-89328-5	HP0083B-CS-SP	Solid	04/11/13 09:59	04/13/13 09:27
680-89328-6	HP0202A-CS-SP	Solid	04/11/13 10:52	04/13/13 09:27
680-89328-7	HP0202B-CS-SP	Solid	04/11/13 11:07	04/13/13 09:27
680-89328-8	HP0202C-CS-SP	Solid	04/11/13 11:16	04/13/13 09:27
680-89328-9	CV0224A-CS	Solid	04/11/13 13:25	04/13/13 09:27
680-89328-10	CV0224B-CS	Solid	04/11/13 13:33	04/13/13 09:27
680-89328-11	CV0401A-CS	Solid	04/11/13 08:40	04/13/13 09:27
680-89328-12	CV0401B-CS	Solid	04/11/13 08:51	04/13/13 09:27
680-89328-13	CV0405A-CS	Solid	04/11/13 09:16	04/13/13 09:27
680-89328-14	CV0405B-CS	Solid	04/11/13 09:24	04/13/13 09:27
680-89328-15	CV0993A-CS	Solid	04/11/13 09:30	04/13/13 09:27
680-89328-16	CV0993B-CS	Solid	04/11/13 09:40	04/13/13 09:27
680-89328-17	CV1290A-CS	Solid	04/11/13 10:30	04/13/13 09:27
680-89328-18	CV1117A-CS	Solid	04/11/13 14:50	04/13/13 09:27
680-89328-19	CV1117B-CS	Solid	04/11/13 15:00	04/13/13 09:27
680-89328-20	CV1117C-GS	Solid	04/11/13 15:10	04/13/13 09:27

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	HP0040A-CS 680-89328-1		RL	HP0040A-CSD 680-89328-2		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	43	J	46	36	J	50	µg/kg	240	NA	7	96	None, absolute difference ≤ 2x Avg RL
Anthracene	35		9.7	27		10	µg/kg	49.25	NA	8	19.7	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	150		9.2	160		10	µg/kg	48	6	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	150		12	150		13	µg/kg	62.5	0	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	210		14	210		15	µg/kg	72.5	0	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	140		23	150		25	µg/kg	120	7	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	100		9.2	120		10	µg/kg	48	18	NA	NA	None, RPD ≤ 50%
Chrysene	210		10	200		11	µg/kg	52.5	5	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	90		23	85		25	µg/kg	120	NA	5	48	None, absolute difference ≤ 2x Avg RL
Fluoranthene	250		23	250		25	µg/kg	120	0	NA	NA	None, RPD ≤ 50%
Fluorene	31		23	15	J	25	µg/kg	120	NA	16	48	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	160		23	160		25	µg/kg	120	0	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	95		46	63		50	µg/kg	240	NA	32	96	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	130		46	150		50	µg/kg	240	NA	20	96	None, absolute difference ≤ 2x Avg RL
Naphthalene	100		46	130		50	µg/kg	240	NA	30	96	None, absolute difference ≤ 2x Avg RL
Phenanthrene	220		9.2	190		10	µg/kg	48	15	NA	NA	None, RPD ≤ 50%
Pyrene	200		23	240		25	µg/kg	120	18	NA	NA	None, RPD ≤ 50%

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

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

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-89328-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89328-1

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

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

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

RECEIPT

The samples were received on 04/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0040A-CS (680-89328-1), HP0040A-CSD (680-89328-2), HP0040B-CS (680-89328-3), HP0083A-CS-SP (680-89328-4), HP0083B-CS-SP (680-89328-5), HP0202A-CS-SP (680-89328-6), HP0202B-CS-SP (680-89328-7), HP0202C-CS-SP (680-89328-8), CV0224A-CS (680-89328-9), CV0224B-CS (680-89328-10), CV0401A-CS (680-89328-11), CV0401B-CS (680-89328-12), CV0405A-CS (680-89328-13), CV0405B-CS (680-89328-14), CV0993A-CS (680-89328-15), CV0993B-CS (680-89328-16), CV1290A-CS (680-89328-17), CV1117A-CS (680-89328-18), CV1117B-CS (680-89328-19) and CV1117C-GS (680-89328-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013, 04/18/2013 and 04/19/2013 and analyzed on 04/19/2013, 04/22/2013 and 04/23/2013.

Samples HP0202C-CS-SP (680-89328-8)[4X], CV0401B-CS (680-89328-12)[4X], CV0993B-CS (680-89328-16)[4X], CV1290A-CS (680-89328-17)[4X] and CV1117C-GS (680-89328-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89220-41 in batch 660-136655.

Fluoranthene recovered outside the recovery criteria for the MSD of sample 680-89275-21 in batch 660-136733.

Several analytes recovered outside the recovery criteria for the MSD of sample HP0202C-CS-SP (680-89328-8) in batch 660-136698. Also, Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: HP0040A-CS

Lab Sample ID: 680-89328-1
Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Acenaphthylene	**43**	**J**	46	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Anthracene	**35**		9.7	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[a]anthracene	**150**		9.2	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[a]pyrene	**150**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[b]fluoranthene	**210**		14	7.0	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[g,h,i]perylene	**140**		23	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[k]fluoranthene	**100**		9.2	4.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Chrysene	**210**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Dibenz(a,h)anthracene	**90**		23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Fluoranthene	**250**		23	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Fluorene	**31**		23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Indeno[1,2,3-cd]pyrene	**160**		23	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
1-Methylnaphthalene	**95**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
2-Methylnaphthalene	**130**		46	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Naphthalene	**100**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Phenanthrene	**220**		9.2	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Pyrene	**200**		23	4.3	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/17/13 16:34*	*04/19/13 18:29*	*1*

Client Sample ID: HP0040A-CSD

Lab Sample ID: 680-89328-2
Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Acenaphthylene	**36**	**J**	50	6.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Anthracene	**27**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[a]anthracene	**160**		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[a]pyrene	**150**		13	6.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[b]fluoranthene	**210**		15	7.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[g,h,i]perylene	**150**		25	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[k]fluoranthene	**120**		10	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Chrysene	**200**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Dibenz(a,h)anthracene	**85**		25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Fluoranthene	**250**		25	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Fluorene	**15**	**J**	25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Indeno[1,2,3-cd]pyrene	**160**		25	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
1-Methylnaphthalene	**63**		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
2-Methylnaphthalene	**150**		50	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Naphthalene	**130**		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Phenanthrene	**190**		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Pyrene	**240**		25	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 16:34*	*04/19/13 18:47*	*1*

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: HP0040B-CS

Lab Sample ID: 680-89328-3
Date Collected: 04/11/13 09:00
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Acenaphthylene	**26**	**J**	46	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Anthracene	**13**		9.7	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[a]anthracene	**96**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[a]pyrene	**90**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[b]fluoranthene	**160**		14	7.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[g,h,i]perylene	**90**		23	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[k]fluoranthene	**75**		9.3	4.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Chrysene	**110**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Dibenz(a,h)anthracene	**81**		23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Fluoranthene	**100**		23	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Fluorene	**15**	**J**	23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Indeno[1,2,3-cd]pyrene	**100**		23	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
1-Methylnaphthalene	**39**	**J**	46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
2-Methylnaphthalene	**76**		46	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Naphthalene	**68**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Phenanthrene	**97**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Pyrene	**130**		23	4.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/17/13 16:34*	*04/19/13 19:05*	*1*

Client Sample ID: HP0083A-CS-SP

Lab Sample ID: 680-89328-4
Date Collected: 04/11/13 09:53
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 69.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Acenaphthylene	**36**	**J**	57	7.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Anthracene	**83**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[a]anthracene	**210**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[a]pyrene	**180**		15	7.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[b]fluoranthene	**390**		17	8.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[g,h,i]perylene	**190**		28	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[k]fluoranthene	**180**		11	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Chrysene	**300**		13	6.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Dibenz(a,h)anthracene	**91**		28	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Fluoranthene	**380**		28	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Fluorene	**30**		28	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Indeno[1,2,3-cd]pyrene	**230**		28	10	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
1-Methylnaphthalene	**150**		57	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
2-Methylnaphthalene	**170**		57	10	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Naphthalene	**170**		57	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Phenanthrene	**340**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Pyrene	**320**		28	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/17/13 16:34*	*04/19/13 19:23*	*1*

Client Sample ID: HP0083B-CS-SP

Lab Sample ID: 680-89328-5

Date Collected: 04/11/13 09:59
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Acenaphthylene	**7.4**	**J**	53	6.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Anthracene	**17**		11	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[a]anthracene	**56**		11	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[a]pyrene	**40**		14	6.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[b]fluoranthene	**100**		16	8.0	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[g,h,i]perylene	**66**		26	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[k]fluoranthene	**22**		11	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Chrysene	**73**		12	5.9	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Dibenz(a,h)anthracene	26	U	26	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Fluoranthene	**89**		26	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Fluorene	**25**	**J**	26	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Indeno[1,2,3-cd]pyrene	**97**		26	9.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
1-Methylnaphthalene	**29**	**J**	53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
2-Methylnaphthalene	**73**		53	9.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Naphthalene	**73**		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Phenanthrene	**120**		11	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Pyrene	**64**		26	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/17/13 16:34*	*04/19/13 19:42*	*1*

Client Sample ID: HP0202A-CS-SP

Lab Sample ID: 680-89328-6

Date Collected: 04/11/13 10:52
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**40**	**J**	130	27	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Acenaphthylene	**29**	**J**	53	6.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Anthracene	**75**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[a]anthracene	**380**		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[a]pyrene	**350**		14	6.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[b]fluoranthene	**700**		16	8.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[g,h,i]perylene	**270**		27	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[k]fluoranthene	**190**		11	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Chrysene	**510**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Dibenz(a,h)anthracene	**110**		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Fluoranthene	**830**		27	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Fluorene	**45**		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Indeno[1,2,3-cd]pyrene	**280**		27	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
1-Methylnaphthalene	**180**		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
2-Methylnaphthalene	**260**		53	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Naphthalene	**190**		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Phenanthrene	**610**		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Pyrene	**700**		27	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:00*	*1*

Client Sample ID: HP0202B-CS-SP

Lab Sample ID: 680-89328-7

Date Collected: 04/11/13 11:07
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	120	24	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Acenaphthylene	53		48	6.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Anthracene	200		10	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[a]anthracene	670		9.7	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[a]pyrene	500		13	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[b]fluoranthene	900		15	7.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[g,h,i]perylene	400		24	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[k]fluoranthene	380		9.7	4.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Chrysene	640		11	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Dibenz(a,h)anthracene	150		24	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Fluoranthene	1300		24	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Fluorene	130		24	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Indeno[1,2,3-cd]pyrene	340		24	8.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
1-Methylnaphthalene	49		48	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
2-Methylnaphthalene	110		48	8.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Naphthalene	140		48	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Phenanthrene	1000		9.7	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Pyrene	1100		24	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:18*	*1*

Client Sample ID: HP0202C-CS-SP

Lab Sample ID: 680-89328-8

Date Collected: 04/11/13 11:16
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.9

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	☼	04/19/13 11:14	04/22/13 16:33	4
Acenaphthylene	71	J	200	25	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Anthracene	46		42	21	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[a]anthracene	210		40	19	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[a]pyrene	260	~~F~~ J	52	26	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[b]fluoranthene	370		60	30	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[g,h,i]perylene	230		99	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[k]fluoranthene	110		40	18	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Chrysene	330	~~F~~ J	45	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Dibenz(a,h)anthracene	99	U	99	20	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Fluoranthene	300	~~F~~ J	99	20	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Fluorene	99	U	99	20	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Indeno[1,2,3-cd]pyrene	380		99	35	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
1-Methylnaphthalene	190	J ~~F~~	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
2-Methylnaphthalene	270	~~F~~	200	35	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Phenanthrene	200		40	19	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Pyrene	380	~~F~~ J	99	18	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/19/13 11:14*	*04/22/13 16:33*	*4*

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: CV0224A-CS

Lab Sample ID: 680-89328-9
Date Collected: 04/11/13 13:25
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Acenaphthylene	**18**	**J**	52	6.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Anthracene	**37**		11	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[a]anthracene	**200**		10	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[a]pyrene	**160**		13	6.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[b]fluoranthene	**270**		16	7.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[g,h,i]perylene	**160**		26	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[k]fluoranthene	**89**		10	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Chrysene	**310**		12	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Dibenz(a,h)anthracene	**110**		26	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Fluoranthene	**260**		26	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Fluorene	**40**		26	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Indeno[1,2,3-cd]pyrene	**110**		26	9.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
1-Methylnaphthalene	**230**		52	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
2-Methylnaphthalene	**250**		52	9.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Naphthalene	**170**		52	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Phenanthrene	**340**		10	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Pyrene	**230**		26	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:37*	*1*

Client Sample ID: CV0224B-CS

Lab Sample ID: 680-89328-10
Date Collected: 04/11/13 13:33
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**26**	**J**	120	23	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Acenaphthylene	**23**	**J**	46	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Anthracene	**27**		9.8	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[a]anthracene	**220**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[a]pyrene	**140**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[b]fluoranthene	**370**		14	7.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[g,h,i]perylene	**200**		23	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[k]fluoranthene	**78**		9.3	4.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Chrysene	**440**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Dibenz(a,h)anthracene	**120**		23	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Fluoranthene	**250**		23	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Fluorene	**48**		23	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Indeno[1,2,3-cd]pyrene	**110**		23	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
1-Methylnaphthalene	**450**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
2-Methylnaphthalene	**700**		46	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Naphthalene	**440**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Phenanthrene	**640**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Pyrene	**300**		23	4.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:55*	*1*

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: CV0401A-CS

Lab Sample ID: 680-89328-11
Date Collected: 04/11/13 08:40
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	43	J	130	25	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Acenaphthylene	58		50	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Anthracene	160		11	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[a]anthracene	780		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[a]pyrene	710		13	6.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[b]fluoranthene	1300		15	7.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[g,h,i]perylene	560		25	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[k]fluoranthene	430		10	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Chrysene	830		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Dibenz(a,h)anthracene	220		25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Fluoranthene	1400		25	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Fluorene	48		25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Indeno[1,2,3-cd]pyrene	450		25	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
1-Methylnaphthalene	87		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
2-Methylnaphthalene	190		50	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Naphthalene	120		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Phenanthrene	810		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Pyrene	1200		25	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/17/13 16:34*	*04/19/13 21:13*	*1*

Client Sample ID: CV0401B-CS

Lab Sample ID: 680-89328-12
Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160		130	27	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Acenaphthylene	180		53	6.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Anthracene	490		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Benzo[a]anthracene	3600		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Benzo[k]fluoranthene	3300		11	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Chrysene	3600		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Dibenz(a,h)anthracene	1400		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Fluorene	160		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Indeno[1,2,3-cd]pyrene	3900		27	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
1-Methylnaphthalene	240		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
2-Methylnaphthalene	350		53	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Naphthalene	220		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Phenanthrene	2400		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Pyrene	3700		27	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/17/13 16:34*	*04/19/13 21:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	4400		55	28	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4
Benzo[b]fluoranthene	8700		65	32	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4

Client Sample ID: CV0401B-CS

Lab Sample ID: 680-89328-12
Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	5300		110	23	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4
Fluoranthene	4000		110	21	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4

Client Sample ID: CV0405A-CS

Lab Sample ID: 680-89328-13
Date Collected: 04/11/13 09:16
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	120	23	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Acenaphthylene	25	J	47	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Anthracene	79		9.8	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[a]anthracene	370		9.3	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[a]pyrene	420	J	12	6.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[b]fluoranthene	700		14	7.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[g,h,i]perylene	260		23	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[k]fluoranthene	200		9.3	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Chrysene	420		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Dibenz(a,h)anthracene	87		23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Fluoranthene	630		23	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Fluorene	20	J	23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Indeno[1,2,3-cd]pyrene	230		23	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
1-Methylnaphthalene	37	J	47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
2-Methylnaphthalene	48		47	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Naphthalene	41	J	47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Phenanthrene	290		9.3	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Pyrene	410		23	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*04/18/13 15:43*	*04/22/13 13:23*	*1*

Client Sample ID: CV0405B-CS

Lab Sample ID: 680-89328-14
Date Collected: 04/11/13 09:24
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Acenaphthylene	51	U	51	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Anthracene	11	U	11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[a]anthracene	10	U	10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[a]pyrene	13	U J	13	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[b]fluoranthene	15	U	15	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[g,h,i]perylene	25	U	25	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[k]fluoranthene	10	U	10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Chrysene	11	U	11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Dibenz(a,h)anthracene	25	U	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Fluoranthene	25	U	25	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Fluorene	25	U	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Indeno[1,2,3-cd]pyrene	25	U	25	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1

Client Sample ID: CV0405B-CS

Lab Sample ID: 680-89328-14
Date Collected: 04/11/13 09:24
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	51	U	51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
2-Methylnaphthalene	51	U	51	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Naphthalene	51	U	51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Phenanthrene	10	U	10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Pyrene	25	U	25	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*04/18/13 15:43*	*04/22/13 13:46*	*1*

Client Sample ID: CV0993A-CS

Lab Sample ID: 680-89328-15
Date Collected: 04/11/13 09:30
Matrix: Solid
Date Received: 04/13/13 09:27
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	120	U	120	23	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Acenaphthylene	**11**	**J**	47	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Anthracene	**32**		9.8	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[a]anthracene	**140**		9.3	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[a]pyrene	**120**	**J**	12	6.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[b]fluoranthene	**230**		14	7.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[g,h,i]perylene	**84**		23	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[k]fluoranthene	**71**		9.3	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Chrysene	**170**		10	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Dibenz(a,h)anthracene	**29**		23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Fluoranthene	**260**		23	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Fluorene	**8.7**	**J**	23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Indeno[1,2,3-cd]pyrene	**78**		23	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
1-Methylnaphthalene	**45**	**J**	47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
2-Methylnaphthalene	**62**		47	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Naphthalene	**61**		47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Phenanthrene	**150**		9.3	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Pyrene	**180**		23	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*04/18/13 15:43*	*04/22/13 14:08*	*1*

Client Sample ID: CV0993B-CS

Lab Sample ID: 680-89328-16
Date Collected: 04/11/13 09:40
Matrix: Solid
Date Received: 04/13/13 09:27
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	**630**		120	24	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Acenaphthylene	**51**		47	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Anthracene	**1300**		9.9	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[a]anthracene	**3200**		9.5	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[a]pyrene	**3000**	**J**	12	6.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[g,h,i]perylene	**1400**		24	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[k]fluoranthene	**1400**		9.5	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1

Client Sample ID: CV0993B-CS

Lab Sample ID: 680-89328-16
Date Collected: 04/11/13 09:40
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	3100		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Dibenz(a,h)anthracene	450		24	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Fluorene	510		24	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Indeno[1,2,3-cd]pyrene	1400		24	8.4	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
1-Methylnaphthalene	130		47	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
2-Methylnaphthalene	170		47	8.4	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Naphthalene	310		47	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/18/13 15:43*	*04/22/13 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3900		58	29	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4
Fluoranthene	6900		95	19	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4
Phenanthrene	4800		38	18	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4
Pyrene	5300		95	18	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4

Client Sample ID: CV1290A-CS

Lab Sample ID: 680-89328-17
Date Collected: 04/11/13 10:30
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 57.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	94	J	180	35	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Acenaphthylene	36	J	70	8.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Anthracene	260		15	7.4	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[a]anthracene	3300		14	6.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[a]pyrene	4700	J	18	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[g,h,i]perylene	2700		35	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[k]fluoranthene	2500		14	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Chrysene	4300		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Dibenz(a,h)anthracene	1100		35	7.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Fluoranthene	4700		35	7.0	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Fluorene	87		35	7.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Indeno[1,2,3-cd]pyrene	2400		35	12	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
1-Methylnaphthalene	410		70	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
2-Methylnaphthalene	520		70	12	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Naphthalene	420		70	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Phenanthrene	1700		14	6.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Pyrene	2800		35	6.5	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*04/18/13 15:43*	*04/22/13 14:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	7800		86	43	ug/Kg	☼	04/18/13 15:43	04/23/13 15:14	4

Client Sample ID: CV1117A-CS

Lab Sample ID: 680-89328-18

Date Collected: 04/11/13 14:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Acenaphthylene	**57**		53	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Anthracene	**93**		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[a]anthracene	**170**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[a]pyrene	**210**	J	14	6.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[b]fluoranthene	**480**		16	8.1	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[g,h,i]perylene	**110**		26	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[k]fluoranthene	**150**		11	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Chrysene	**240**		12	6.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Dibenz(a,h)anthracene	**40**		26	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Fluoranthene	**260**		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Fluorene	**12**	J	26	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Indeno[1,2,3-cd]pyrene	**120**		26	9.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
1-Methylnaphthalene	**37**	J	53	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
2-Methylnaphthalene	**48**	J	53	9.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Naphthalene	**44**	J	53	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Phenanthrene	**110**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Pyrene	**190**		26	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/18/13 15:43*	*04/22/13 15:16*	*1*

Client Sample ID: CV1117B-CS

Lab Sample ID: 680-89328-19

Date Collected: 04/11/13 15:00
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.6

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	27	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Acenaphthylene	**47**	J	54	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Anthracene	**87**		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[a]anthracene	**210**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[a]pyrene	**200**	J	14	7.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[b]fluoranthene	**420**		16	8.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[g,h,i]perylene	**110**		27	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[k]fluoranthene	**110**		11	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Chrysene	**280**		12	6.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Dibenz(a,h)anthracene	**38**		27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Fluoranthene	**400**		27	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Fluorene	**14**	J	27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Indeno[1,2,3-cd]pyrene	**110**		27	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
1-Methylnaphthalene	**71**		54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
2-Methylnaphthalene	**90**		54	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Naphthalene	**68**		54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Phenanthrene	**210**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Pyrene	**280**		27	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/18/13 15:43*	*04/22/13 15:38*	*1*

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: CV1117C-GS
Date Collected: 04/11/13 15:10
Date Received: 04/13/13 09:27

Lab Sample ID: 680-89328-20
Matrix: Solid
Percent Solids: 68.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Acenaphthylene	**69**	**J**	230	29	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Anthracene	**73**		49	25	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[a]anthracene	**210**		47	23	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[a]pyrene	**200**	J	61	30	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[b]fluoranthene	**480**		71	36	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[g,h,i]perylene	**170**		120	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[k]fluoranthene	**120**		47	21	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Chrysene	**380**		53	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Dibenz(a,h)anthracene	**55**	**J**	120	24	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Fluoranthene	**300**		120	23	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Fluorene	120	U	120	24	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Indeno[1,2,3-cd]pyrene	**130**		120	42	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
1-Methylnaphthalene	**150**	**J**	230	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
2-Methylnaphthalene	**180**	**J**	230	42	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Naphthalene	**110**	**J**	230	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Phenanthrene	**310**		47	23	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Pyrene	**220**		120	22	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/18/13 15:43*	*04/22/13 16:01*	*4*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-89328-1

SDG Number: 68089328-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/24/2013 9:41 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/24/2013

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

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

NELAP ACCREDITED TNI LABORATORY

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89328-1

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

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

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

RECEIPT

The samples were received on 04/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0040A-CS (680-89328-1), HP0040A-CSD (680-89328-2), HP0040B-CS (680-89328-3), HP0083A-CS-SP (680-89328-4), HP0083B-CS-SP (680-89328-5), HP0202A-CS-SP (680-89328-6), HP0202B-CS-SP (680-89328-7), HP0202C-CS-SP (680-89328-8), CV0224A-CS (680-89328-9), CV0224B-CS (680-89328-10), CV0401A-CS (680-89328-11), CV0401B-CS (680-89328-12), CV0405A-CS (680-89328-13), CV0405B-CS (680-89328-14), CV0993A-CS (680-89328-15), CV0993B-CS (680-89328-16), CV1290A-CS (680-89328-17), CV1117A-CS (680-89328-18), CV1117B-CS (680-89328-19) and CV1117C-GS (680-89328-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013, 04/18/2013 and 04/19/2013 and analyzed on 04/19/2013, 04/22/2013 and 04/23/2013.

Samples HP0202C-CS-SP (680-89328-8)[4X], CV0401B-CS (680-89328-12)[4X], CV0993B-CS (680-89328-16)[4X], CV1290A-CS (680-89328-17)[4X] and CV1117C-GS (680-89328-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89220-41 in batch 660-136655.

Fluoranthene recovered outside the recovery criteria for the MSD of sample 680-89275-21 in batch 660-136733.

Several analytes recovered outside the recovery criteria for the MSD of sample HP0202C-CS-SP (680-89328-8) in batch 660-136698. Also, Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89328-1	HP0040A-CS	Solid	04/11/2013 0850	04/13/2013 0927
680-89328-2	HP0040A-CSD	Solid	04/11/2013 0850	04/13/2013 0927
680-89328-3	HP0040B-CS	Solid	04/11/2013 0900	04/13/2013 0927
680-89328-4	HP0083A-CS-SP	Solid	04/11/2013 0953	04/13/2013 0927
680-89328-5	HP0083B-CS-SP	Solid	04/11/2013 0959	04/13/2013 0927
680-89328-6	HP0202A-CS-SP	Solid	04/11/2013 1052	04/13/2013 0927
680-89328-7	HP0202B-CS-SP	Solid	04/11/2013 1107	04/13/2013 0927
680-89328-8	HP0202C-CS-SP	Solid	04/11/2013 1116	04/13/2013 0927
680-89328-8MS	HP0202C-CS-SP	Solid	04/11/2013 1116	04/13/2013 0927
680-89328-8MSD	HP0202C-CS-SP	Solid	04/11/2013 1116	04/13/2013 0927
680-89328-9	CV0224A-CS	Solid	04/11/2013 1325	04/13/2013 0927
680-89328-10	CV0224B-CS	Solid	04/11/2013 1333	04/13/2013 0927
680-89328-11	CV0401A-CS	Solid	04/11/2013 0840	04/13/2013 0927
680-89328-12	CV0401B-CS	Solid	04/11/2013 0851	04/13/2013 0927
680-89328-13	CV0405A-CS	Solid	04/11/2013 0916	04/13/2013 0927
680-89328-14	CV0405B-CS	Solid	04/11/2013 0924	04/13/2013 0927
680-89328-15	CV0993A-CS	Solid	04/11/2013 0930	04/13/2013 0927
680-89328-16	CV0993B-CS	Solid	04/11/2013 0940	04/13/2013 0927
680-89328-17	CV1290A-CS	Solid	04/11/2013 1030	04/13/2013 0927
680-89328-18	CV1117A-CS	Solid	04/11/2013 1450	04/13/2013 0927
680-89328-19	CV1117B-CS	Solid	04/11/2013 1500	04/13/2013 0927
680-89328-20	CV1117C-GS	Solid	04/11/2013 1510	04/13/2013 0927

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136551					
LCS 660-136551/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136551/1-A	Method Blank	T	Solid	3546	
680-89220-A-41-B MS	Matrix Spike	T	Solid	3546	
680-89220-A-41-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89328-1	HP0040A-CS	T	Solid	3546	
680-89328-2	HP0040A-CSD	T	Solid	3546	
680-89328-3	HP0040B-CS	T	Solid	3546	
680-89328-4	HP0083A-CS-SP	T	Solid	3546	
680-89328-5	HP0083B-CS-SP	T	Solid	3546	
680-89328-6	HP0202A-CS-SP	T	Solid	3546	
680-89328-7	HP0202B-CS-SP	T	Solid	3546	
680-89328-9	CV0224A-CS	T	Solid	3546	
680-89328-10	CV0224B-CS	T	Solid	3546	
680-89328-11	CV0401A-CS	T	Solid	3546	
680-89328-12	CV0401B-CS	T	Solid	3546	
680-89328-12DL	CV0401B-CS	T	Solid	3546	
Prep Batch: 660-136604					
LCS 660-136604/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136604/1-A	Method Blank	T	Solid	3546	
680-89275-A-21-B MS	Matrix Spike	T	Solid	3546	
680-89275-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89328-13	CV0405A-CS	T	Solid	3546	
680-89328-14	CV0405B-CS	T	Solid	3546	
680-89328-15	CV0993A-CS	T	Solid	3546	
680-89328-16	CV0993B-CS	T	Solid	3546	
680-89328-16DL	CV0993B-CS	T	Solid	3546	
680-89328-17	CV1290A-CS	T	Solid	3546	
680-89328-17DL	CV1290A-CS	T	Solid	3546	
680-89328-18	CV1117A-CS	T	Solid	3546	
680-89328-19	CV1117B-CS	T	Solid	3546	
680-89328-20	CV1117C-GS	T	Solid	3546	
Prep Batch: 660-136637					
LCS 660-136637/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136637/1-A	Method Blank	T	Solid	3546	
680-89328-8	HP0202C-CS-SP	T	Solid	3546	
680-89328-8MS	Matrix Spike	T	Solid	3546	
680-89328-8MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136655					
LCS 660-136551/2-A	Lab Control Sample	T	Solid	8270C LL	660-136551
MB 660-136551/1-A	Method Blank	T	Solid	8270C LL	660-136551
680-89220-A-41-B MS	Matrix Spike	T	Solid	8270C LL	660-136551
680-89220-A-41-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136551
680-89328-1	HP0040A-CS	T	Solid	8270C LL	660-136551
680-89328-2	HP0040A-CSD	T	Solid	8270C LL	660-136551
680-89328-3	HP0040B-CS	T	Solid	8270C LL	660-136551
680-89328-4	HP0083A-CS-SP	T	Solid	8270C LL	660-136551
680-89328-5	HP0083B-CS-SP	T	Solid	8270C LL	660-136551
680-89328-6	HP0202A-CS-SP	T	Solid	8270C LL	660-136551
680-89328-7	HP0202B-CS-SP	T	Solid	8270C LL	660-136551
680-89328-9	CV0224A-CS	T	Solid	8270C LL	660-136551
680-89328-10	CV0224B-CS	T	Solid	8270C LL	660-136551
680-89328-11	CV0401A-CS	T	Solid	8270C LL	660-136551
680-89328-12	CV0401B-CS	T	Solid	8270C LL	660-136551
Analysis Batch:660-136698					
LCS 660-136637/2-A	Lab Control Sample	T	Solid	8270C LL	660-136637
MB 660-136637/1-A	Method Blank	T	Solid	8270C LL	660-136637
680-89328-8	HP0202C-CS-SP	T	Solid	8270C LL	660-136637
680-89328-8MS	Matrix Spike	T	Solid	8270C LL	660-136637
680-89328-8MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136637
680-89328-12DL	CV0401B-CS	T	Solid	8270C LL	660-136551
Analysis Batch:660-136733					
LCS 660-136604/2-A	Lab Control Sample	T	Solid	8270C LL	660-136604
MB 660-136604/1-A	Method Blank	T	Solid	8270C LL	660-136604
680-89275-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-136604
680-89275-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136604
680-89328-13	CV0405A-CS	T	Solid	8270C LL	660-136604
680-89328-14	CV0405B-CS	T	Solid	8270C LL	660-136604
680-89328-15	CV0993A-CS	T	Solid	8270C LL	660-136604
680-89328-16	CV0993B-CS	T	Solid	8270C LL	660-136604
680-89328-17	CV1290A-CS	T	Solid	8270C LL	660-136604
680-89328-18	CV1117A-CS	T	Solid	8270C LL	660-136604
680-89328-19	CV1117B-CS	T	Solid	8270C LL	660-136604
680-89328-20	CV1117C-GS	T	Solid	8270C LL	660-136604
Analysis Batch:660-136756					
680-89328-16DL	CV0993B-CS	T	Solid	8270C LL	660-136604
680-89328-17DL	CV1290A-CS	T	Solid	8270C LL	660-136604

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
Sdg Number: 68089328-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136561					
680-89328-6	HP0202A-CS-SP	T	Solid	Moisture	
680-89328-8	HP0202C-CS-SP	T	Solid	Moisture	
680-89328-8MS	Matrix Spike	T	Solid	Moisture	
680-89328-8MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89328-9	CV0224A-CS	T	Solid	Moisture	
680-89328-10	CV0224B-CS	T	Solid	Moisture	
680-89328-11	CV0401A-CS	T	Solid	Moisture	
680-89328-12	CV0401B-CS	T	Solid	Moisture	
680-89328-13	CV0405A-CS	T	Solid	Moisture	
680-89328-14	CV0405B-CS	T	Solid	Moisture	
680-89328-15	CV0993A-CS	T	Solid	Moisture	
680-89328-16	CV0993B-CS	T	Solid	Moisture	
680-89328-17	CV1290A-CS	T	Solid	Moisture	
680-89328-18	CV1117A-CS	T	Solid	Moisture	
680-89328-19	CV1117B-CS	T	Solid	Moisture	
680-89328-20	CV1117C-GS	T	Solid	Moisture	
680-89328-A-25 MS	Matrix Spike	T	Solid	Moisture	
680-89328-A-25 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-136569					
LCS 660-136569/1	Lab Control Sample	T	Solid	Moisture	
680-89328-1	HP0040A-CS	T	Solid	Moisture	
680-89328-2	HP0040A-CSD	T	Solid	Moisture	
680-89328-3	HP0040B-CS	T	Solid	Moisture	
680-89328-4	HP0083A-CS-SP	T	Solid	Moisture	
680-89328-5	HP0083B-CS-SP	T	Solid	Moisture	
680-89328-7	HP0202B-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: ICIS 660-136370/3 Client Sample ID:

Date Analyzed: 04/11/13 11:56 Lab File ID: 1CD11003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/

Lab Sample ID: IC 660-136370/4 Client Sample ID:

Date Analyzed: 04/11/13 12:35 Lab File ID: 1CD11004.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/11/

Lab Sample ID: IC 660-136370/5 Client Sample ID:

Date Analyzed: 04/11/13 12:53 Lab File ID: 1CD11005.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/11/

Lab Sample ID: IC 660-136370/6 Client Sample ID:

Date Analyzed: 04/11/13 13:11 Lab File ID: 1CD11006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/

Lab Sample ID: IC 660-136370/7 Client Sample ID:

Date Analyzed: 04/11/13 13:30 Lab File ID: 1CD11007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/

Lab Sample ID: IC 660-136370/8 Client Sample ID:

Date Analyzed: 04/11/13 13:48 Lab File ID: 1CD11008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/

Lab Sample ID: IC 660-136370/9 Client Sample ID:

Date Analyzed: 04/11/13 14:06 Lab File ID: 1CD11009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/

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.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: ICV 660-136370/10 Client Sample ID:

Date Analyzed: 04/11/13 14:25 Lab File ID: 1CD11010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Analysis Batch Number: 136655

Lab Sample ID: CCVIS 660-136655/3 Client Sample ID:

Date Analyzed: 04/19/13 11:24 Lab File ID: 1CD19003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/19/

Lab Sample ID: LCS 660-136551/2-A Client Sample ID:

Date Analyzed: 04/19/13 14:42 Lab File ID: 1CD19013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/22/

Lab Sample ID: 680-89220-A-41-B MS Client Sample ID:

Date Analyzed: 04/19/13 16:39 Lab File ID: 1CD19019.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/22/

Lab Sample ID: 680-89220-A-41-C MSD Client Sample ID:

Date Analyzed: 04/19/13 16:57 Lab File ID: 1CD19020.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/22/

Lab Sample ID: 680-89328-1 Client Sample ID: HP0040A-CS

Date Analyzed: 04/19/13 18:29 Lab File ID: 1CD19025.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.44	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/
Dibenz(a,h)anthracene	9.91	Baseline Event	cantins	04/22/
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/22/

Lab Sample ID: 680-89328-2 Client Sample ID: HP0040A-CSD

Date Analyzed: 04/19/13 18:47 Lab File ID: 1CD19026.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.44	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/
Dibenz(a,h)anthracene	9.90	Baseline Event	cantins	04/22/
Benzo[g,h,i]perylene	10.22	Baseline Event	cantins	04/22/

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)

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Analysis Batch Number: 136655

Lab Sample ID: 680-89328-3 Client Sample ID: HP0040B-CS

Date Analyzed: 04/19/13 19:05 Lab File ID: 1CD19027.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.44	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/
Dibenz(a,h)anthracene	9.90	Baseline Event	cantins	04/22/

Lab Sample ID: 680-89328-4 Client Sample ID: HP0083A-CS-SP

Date Analyzed: 04/19/13 19:23 Lab File ID: 1CD19028.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.44	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/22/

Lab Sample ID: 680-89328-5 Client Sample ID: HP0083B-CS-SP

Date Analyzed: 04/19/13 19:42 Lab File ID: 1CD19029.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[g,h,i]perylene	10.22	Baseline Event	cantins	04/22/

Lab Sample ID: 680-89328-6 Client Sample ID: HP0202A-CS-SP

Date Analyzed: 04/19/13 20:00 Lab File ID: 1CD19030.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.44	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/

Lab Sample ID: 680-89328-7 Client Sample ID: HP0202B-CS-SP

Date Analyzed: 04/19/13 20:18 Lab File ID: 1CD19031.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/

Lab Sample ID: 680-89328-9 Client Sample ID: CV0224A-CS

Date Analyzed: 04/19/13 20:37 Lab File ID: 1CD19032.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.88	Baseline Event	cantins	04/22/
Dibenz(a,h)anthracene	9.89	Baseline Event	cantins	04/22/

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.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Analysis Batch Number: 136655

Lab Sample ID: 680-89328-10 Client Sample ID: CV0224B-CS

Date Analyzed: 04/19/13 20:55 Lab File ID: 1CD19033.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/22/

Lab Sample ID: 680-89328-11 Client Sample ID: CV0401A-CS

Date Analyzed: 04/19/13 21:13 Lab File ID: 1CD19034.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/22/
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/22/
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/22/

Lab Sample ID: 680-89328-12 Client Sample ID: CV0401B-CS

Date Analyzed: 04/19/13 21:32 Lab File ID: 1CD19035.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/22/
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/22/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Analysis Batch Number: 136698

Lab Sample ID: CCVIS 660-136698/3 Client Sample ID:

Date Analyzed: 04/22/13 11:50 Lab File ID: 1CD22003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/22/

Lab Sample ID: 680-89328-12 DL Client Sample ID: CV0401B-CS DL

Date Analyzed: 04/22/13 14:33 Lab File ID: 1CD22010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.46	Split Peak	cantins	04/22/

Lab Sample ID: LCS 660-136637/2-A Client Sample ID:

Date Analyzed: 04/22/13 15:38 Lab File ID: 1CD22013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/23/

Lab Sample ID: 680-89328-8 Client Sample ID: HP0202C-CS-SP

Date Analyzed: 04/22/13 16:33 Lab File ID: 1CD22016.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/23/
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/23/
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/23/

Lab Sample ID: 680-89328-8 MS Client Sample ID: HP0202C-CS-SP MS

Date Analyzed: 04/22/13 16:51 Lab File ID: 1CD22017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.87	Baseline Event	cantins	04/23/
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/23/

Lab Sample ID: 680-89328-8 MSD Client Sample ID: HP0202C-CS-SP MSD

Date Analyzed: 04/22/13 17:10 Lab File ID: 1CD22018.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/23/

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)

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: IC 660-136164/15 Client Sample ID:

Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/

Lab Sample ID: IC 660-136164/16 Client Sample ID:

Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/

Lab Sample ID: IC 660-136164/17 Client Sample ID:

Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/

Lab Sample ID: IC 660-136164/18 Client Sample ID:

Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/05/

Lab Sample ID: ICIS 660-136164/19 Client Sample ID:

Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/

Lab Sample ID: IC 660-136164/20 Client Sample ID:

Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/05/

Lab Sample ID: IC 660-136164/21 Client Sample ID:

Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/05/

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.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: ICV 660-136164/22 Client Sample ID:

Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	9.23	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Analysis Batch Number: 136733

Lab Sample ID: CCVIS 660-136733/3 Client Sample ID:

Date Analyzed: 04/22/13 10:43 Lab File ID: 1DD22003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/22/

Lab Sample ID: LCS 660-136604/2-A Client Sample ID:

Date Analyzed: 04/22/13 11:53 Lab File ID: 1DD22006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/23/

Lab Sample ID: 680-89275-A-21-B MS Client Sample ID:

Date Analyzed: 04/22/13 12:38 Lab File ID: 1DD22008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/23/

Lab Sample ID: 680-89275-A-21-C MSD Client Sample ID:

Date Analyzed: 04/22/13 13:00 Lab File ID: 1DD22009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/23/

Lab Sample ID: 680-89328-13 Client Sample ID: CV0405A-CS

Date Analyzed: 04/22/13 13:23 Lab File ID: 1DD22010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/23/

Lab Sample ID: 680-89328-15 Client Sample ID: CV0993A-CS

Date Analyzed: 04/22/13 14:08 Lab File ID: 1DD22012.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/23/
Benzo[g,h,i]perylene	15.16	Baseline Event	cantins	04/23/

Lab Sample ID: 680-89328-16 Client Sample ID: CV0993B-CS

Date Analyzed: 04/22/13 14:31 Lab File ID: 1DD22013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/23/

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)

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Analysis Batch Number: 136733

Lab Sample ID: 680-89328-17 Client Sample ID: CV1290A-CS

Date Analyzed: 04/22/13 14:53 Lab File ID: 1DD22014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.78	Split Peak	cantins	04/23/

Lab Sample ID: 680-89328-18 Client Sample ID: CV1117A-CS

Date Analyzed: 04/22/13 15:16 Lab File ID: 1DD22015.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/23/

Lab Sample ID: 680-89328-19 Client Sample ID: CV1117B-CS

Date Analyzed: 04/22/13 15:38 Lab File ID: 1DD22016.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/23/

Lab Sample ID: 680-89328-20 Client Sample ID: CV1117C-GS

Date Analyzed: 04/22/13 16:01 Lab File ID: 1DD22017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/23/
Benzo[g,h,i]perylene	15.16	Baseline Event	cantins	04/23/

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.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Analysis Batch Number: 136756

Lab Sample ID: CCV 660-136756/4 Client Sample ID:

Date Analyzed: 04/23/13 13:06 Lab File ID: 1DD23004.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/23/

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.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
HP0040A-CS	680-89328-1	69
HP0040A-CSD	680-89328-2	57
HP0040B-CS	680-89328-3	58
HP0083A-CS-SP	680-89328-4	65
HP0083B-CS-SP	680-89328-5	61
HP0202A-CS-SP	680-89328-6	75
HP0202B-CS-SP	680-89328-7	50
HP0202C-CS-SP	680-89328-8	75
CV0224A-CS	680-89328-9	62
CV0224B-CS	680-89328-10	67
CV0401A-CS	680-89328-11	60
CV0401B-CS	680-89328-12	73
CV0405A-CS	680-89328-13	53
CV0405B-CS	680-89328-14	78
CV0993A-CS	680-89328-15	52
CV0993B-CS	680-89328-16	60
CV1290A-CS	680-89328-17	71
CV1117A-CS	680-89328-18	84
CV1117B-CS	680-89328-19	67
CV1117C-GS	680-89328-20	60
	MB 660-136551/1-A	57
	MB 660-136604/1-A	63
	MB 660-136637/1-A	67
	LCS 660-136551/2-A	74
	LCS 660-136604/2-A	69
	LCS 660-136637/2-A	74
	680-89220-A-41-B MS	68
	680-89275-A-21-B MS	54
HP0202C-CS-SP MS	680-89328-8 MS	80
	680-89220-A-41-C MSD	60

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	680-89275-A-21-C MSD	65
HP0202C-CS-SP MSD	680-89328-8 MSD	81

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1CD19013.D

Lab ID: LCS 660-136551/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	663	524	79	39-130	
Acenaphthylene	663	490	74	38-130	
Anthracene	663	540	81	37-130	
Benzo[a]anthracene	663	569	86	40-130	
Benzo[a]pyrene	663	435	66	49-130	
Benzo[b]fluoranthene	663	519	78	37-130	
Benzo[g,h,i]perylene	663	483	73	32-130	
Benzo[k]fluoranthene	663	563	85	32-130	
Chrysene	663	567	86	41-130	
Dibenz(a,h)anthracene	663	544	82	27-130	
Fluoranthene	663	525	79	40-130	
Fluorene	663	494	74	40-130	
Indeno[1,2,3-cd]pyrene	663	536	81	30-130	
1-Methylnaphthalene	663	461	70	31-130	
2-Methylnaphthalene	663	473	71	33-130	
Naphthalene	663	495	75	36-130	
Phenanthrene	663	505	76	42-130	
Pyrene	663	495	75	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.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1DD22006.D

Lab ID: LCS 660-136604/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	450	68	39-130	
Acenaphthylene	660	469	71	38-130	
Anthracene	660	453	69	37-130	
Benzo[a]anthracene	660	476	72	40-130	
Benzo[a]pyrene	660	427	65	49-130	
Benzo[b]fluoranthene	660	482	73	37-130	
Benzo[g,h,i]perylene	660	480	73	32-130	
Benzo[k]fluoranthene	660	482	73	32-130	
Chrysene	660	459	70	41-130	
Dibenz(a,h)anthracene	660	501	76	27-130	
Fluoranthene	660	479	73	40-130	
Fluorene	660	481	73	40-130	
Indeno[1,2,3-cd]pyrene	660	481	73	30-130	
1-Methylnaphthalene	660	467	71	31-130	
2-Methylnaphthalene	660	455	69	33-130	
Naphthalene	660	440	67	36-130	
Phenanthrene	660	444	67	42-130	
Pyrene	660	448	68	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.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1CD22013.D

Lab ID: LCS 660-136637/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	537	81	39-130	
Acenaphthylene	660	492	74	38-130	
Anthracene	660	528	80	37-130	
Benzo[a]anthracene	660	579	88	40-130	
Benzo[a]pyrene	660	446	68	49-130	
Benzo[b]fluoranthene	660	556	84	37-130	
Benzo[g,h,i]perylene	660	468	71	32-130	
Benzo[k]fluoranthene	660	589	89	32-130	
Chrysene	660	465	70	41-130	
Dibenz(a,h)anthracene	660	553	84	27-130	
Fluoranthene	660	538	81	40-130	
Fluorene	660	534	81	40-130	
Indeno[1,2,3-cd]pyrene	660	400	61	30-130	
1-Methylnaphthalene	660	423	64	31-130	
2-Methylnaphthalene	660	435	66	33-130	
Naphthalene	660	472	71	36-130	
Phenanthrene	660	534	81	42-130	
Pyrene	660	479	73	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.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1CD19019.D

Lab ID: 680-89220-A-41-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1110	86 J	755	60	39-130	
Acenaphthylene	1110	97	765	60	38-130	
Anthracene	1110	220	845	56	37-130	
Benzo[a]anthracene	1110	620	880	23	40-130	F
Benzo[a]pyrene	1110	700	795	9	49-130	F
Benzo[b]fluoranthene	1110	1300	1160	-14	37-130	F
Benzo[g,h,i]perylene	1110	540	729	17	32-130	F
Benzo[k]fluoranthene	1110	430	893	42	32-130	
Chrysene	1110	770	894	11	41-130	F
Dibenz(a,h)anthracene	1110	200	610	37	27-130	
Fluoranthene	1110	1200	1080	-11	40-130	F
Fluorene	1110	120	847	65	40-130	
Indeno[1,2,3-cd]pyrene	1110	510	690	16	30-130	F
1-Methylnaphthalene	1110	150	810	60	31-130	
2-Methylnaphthalene	1110	210	942	66	33-130	
Naphthalene	1110	240	899	59	36-130	
Phenanthrene	1110	830	999	15	42-130	F
Pyrene	1110	870	941	6	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1DD22008.D

Lab ID: 680-89275-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	868	27 J	478	52	39-130	
Acenaphthylene	868	320	865	62	38-130	
Anthracene	868	250	754	58	37-130	
Benzo[a]anthracene	868	860	1430	66	40-130	
Benzo[a]pyrene	868	870	1360	56	49-130	
Benzo[b]fluoranthene	868	1500	2150	70	37-130	
Benzo[g,h,i]perylene	868	790	1150	42	32-130	
Benzo[k]fluoranthene	868	480	1060	68	32-130	
Chrysene	868	980	1470	57	41-130	
Dibenz(a,h)anthracene	868	240	765	60	27-130	
Fluoranthene	868	1400	2060	72	40-130	
Fluorene	868	45	512	54	40-130	
Indeno[1,2,3-cd]pyrene	868	690	1150	52	30-130	
1-Methylnaphthalene	868	130	603	55	31-130	
2-Methylnaphthalene	868	170	659	56	33-130	
Naphthalene	868	280	832	64	36-130	
Phenanthrene	868	600	1090	57	42-130	
Pyrene	868	1000	1510	55	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.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1CD22017.D

Lab ID: 680-89328-8 MS Client ID: HP0202C-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	826	500 U	654	79	39-130	
Acenaphthylene	826	71 J	680	74	38-130	
Anthracene	826	46	501	55	37-130	
Benzo[a]anthracene	826	210	927	87	40-130	
Benzo[a]pyrene	826	260	690	52	49-130	
Benzo[b]fluoranthene	826	370	964	72	37-130	
Benzo[g,h,i]perylene	826	230	816	71	32-130	
Benzo[k]fluoranthene	826	110	744	77	32-130	
Chrysene	826	330	777	54	41-130	
Dibenz(a,h)anthracene	826	99 U	596	72	27-130	
Fluoranthene	826	300	980	82	40-130	
Fluorene	826	99 U	528	64	40-130	
Indeno[1,2,3-cd]pyrene	826	380	810	52	30-130	
1-Methylnaphthalene	826	190 J	556	45	31-130	
2-Methylnaphthalene	826	270	682	50	33-130	
Naphthalene	826	130 J	483	43	36-130	
Phenanthrene	826	200	833	76	42-130	
Pyrene	826	380	890	62	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1CD19020.D

Lab ID: 680-89220-A-41-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1110	720	57	5	40	39-130	
Acenaphthylene	1110	829	66	8	40	38-130	
Anthracene	1110	752	48	12	40	37-130	
Benzo[a]anthracene	1110	924	27	5	40	40-130	F
Benzo[a]pyrene	1110	812	10	2	40	49-130	F
Benzo[b]fluoranthene	1110	1340	2	14	40	37-130	F
Benzo[g,h,i]perylene	1110	693	14	5	40	32-130	F
Benzo[k]fluoranthene	1110	728	27	20	40	32-130	F
Chrysene	1110	951	16	6	40	41-130	F
Dibenz(a,h)anthracene	1110	686	44	12	40	27-130	
Fluoranthene	1110	976	-20	10	40	40-130	F
Fluorene	1110	777	59	9	40	40-130	
Indeno[1,2,3-cd]pyrene	1110	688	16	0	40	30-130	F
1-Methylnaphthalene	1110	978	75	19	40	31-130	
2-Methylnaphthalene	1110	853	58	10	40	33-130	
Naphthalene	1110	867	56	4	40	36-130	
Phenanthrene	1110	919	8	8	40	42-130	F
Pyrene	1110	1010	12	7	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1DD22009.D

Lab ID: 680-89275-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	868	571	63	18	40	39-130	
Acenaphthylene	868	1010	79	16	40	38-130	
Anthracene	868	957	81	24	40	37-130	
Benzo[a]anthracene	868	1750	103	20	40	40-130	
Benzo[a]pyrene	868	1700	96	22	40	49-130	
Benzo[b]fluoranthene	868	2660	128	21	40	37-130	
Benzo[g,h,i]perylene	868	1270	55	9	40	32-130	
Benzo[k]fluoranthene	868	1260	90	17	40	32-130	
Chrysene	868	1870	102	24	40	41-130	
Dibenz(a,h)anthracene	868	865	72	12	40	27-130	
Fluoranthene	868	2660	141	25	40	40-130	F
Fluorene	868	641	69	22	40	40-130	
Indeno[1,2,3-cd]pyrene	868	1290	69	12	40	30-130	
1-Methylnaphthalene	868	722	69	18	40	31-130	
2-Methylnaphthalene	868	778	70	17	40	33-130	
Naphthalene	868	973	80	16	40	36-130	
Phenanthrene	868	1420	95	27	40	42-130	
Pyrene	868	1850	94	20	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.: 680-89328-1

SDG No.: 68089328-1

Matrix: Solid Level: Low Lab File ID: 1CD22018.D

Lab ID: 680-89328-8 MSD Client ID: HP0202C-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	826	551	67	17	40	39-130	
Acenaphthylene	826	580	62	16	40	38-130	
Anthracene	826	661	74	27	40	37-130	
Benzo[a]anthracene	826	1190	119	25	40	40-130	
Benzo[a]pyrene	826	1060	97	42	40	49-130	F
Benzo[b]fluoranthene	826	1300	112	30	40	37-130	
Benzo[g,h,i]perylene	826	868	77	6	40	32-130	
Benzo[k]fluoranthene	826	840	89	12	40	32-130	
Chrysene	826	1240	110	46	40	41-130	F
Dibenz(a,h)anthracene	826	611	74	2	40	27-130	
Fluoranthene	826	1860	188	62	40	40-130	F
Fluorene	826	601	73	13	40	40-130	
Indeno[1,2,3-cd]pyrene	826	1030	79	24	40	30-130	
1-Methylnaphthalene	826	439	30	23	40	31-130	F
2-Methylnaphthalene	826	528	32	25	40	33-130	F
Naphthalene	826	476	42	1	40	36-130	
Phenanthrene	826	1250	127	40	40	42-130	
Pyrene	826	1680	158	62	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1CD19012.D Lab Sample ID: MB 660-136551/1-A

Matrix: Solid Date Extracted: 04/17/2013 16:34

Instrument ID: BSMC5973 Date Analyzed: 04/19/2013 14:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136551/2-A	1CD19013.D	04/19/2013 14:42
	680-89220-A-41-B MS	1CD19019.D	04/19/2013 16:39
	680-89220-A-41-C MSD	1CD19020.D	04/19/2013 16:57
HP0040A-CS	680-89328-1	1CD19025.D	04/19/2013 18:29
HP0040A-CSD	680-89328-2	1CD19026.D	04/19/2013 18:47
HP0040B-CS	680-89328-3	1CD19027.D	04/19/2013 19:05
HP0083A-CS-SP	680-89328-4	1CD19028.D	04/19/2013 19:23
HP0083B-CS-SP	680-89328-5	1CD19029.D	04/19/2013 19:42
HP0202A-CS-SP	680-89328-6	1CD19030.D	04/19/2013 20:00
HP0202B-CS-SP	680-89328-7	1CD19031.D	04/19/2013 20:18
CV0224A-CS	680-89328-9	1CD19032.D	04/19/2013 20:37
CV0224B-CS	680-89328-10	1CD19033.D	04/19/2013 20:55
CV0401A-CS	680-89328-11	1CD19034.D	04/19/2013 21:13
CV0401B-CS	680-89328-12	1CD19035.D	04/19/2013 21:32
CV0401B-CS DL	680-89328-12 DL	1CD22010.D	04/22/2013 14:33

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1DD22005.D Lab Sample ID: MB 660-136604/1-A

Matrix: Solid Date Extracted: 04/18/2013 15:43

Instrument ID: BSMD5973 Date Analyzed: 04/22/2013 11:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136604/2-A	1DD22006.D	04/22/2013 11:53
	680-89275-A-21-B MS	1DD22008.D	04/22/2013 12:38
	680-89275-A-21-C MSD	1DD22009.D	04/22/2013 13:00
CV0405A-CS	680-89328-13	1DD22010.D	04/22/2013 13:23
CV0405B-CS	680-89328-14	1DD22011.D	04/22/2013 13:46
CV0993A-CS	680-89328-15	1DD22012.D	04/22/2013 14:08
CV0993B-CS	680-89328-16	1DD22013.D	04/22/2013 14:31
CV1290A-CS	680-89328-17	1DD22014.D	04/22/2013 14:53
CV1117A-CS	680-89328-18	1DD22015.D	04/22/2013 15:16
CV1117B-CS	680-89328-19	1DD22016.D	04/22/2013 15:38
CV1117C-GS	680-89328-20	1DD22017.D	04/22/2013 16:01
CV0993B-CS DL	680-89328-16 DL	1DD23006.D	04/23/2013 14:52
CV1290A-CS DL	680-89328-17 DL	1DD23007.D	04/23/2013 15:14

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1CD22012.D Lab Sample ID: MB 660-136637/1-A

Matrix: Solid Date Extracted: 04/19/2013 11:14

Instrument ID: BSMC5973 Date Analyzed: 04/22/2013 15:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136637/2-A	1CD22013.D	04/22/2013 15:38
HP0202C-CS-SP	680-89328-8	1CD22016.D	04/22/2013 16:33
HP0202C-CS-SP MS	680-89328-8 MS	1CD22017.D	04/22/2013 16:51
HP0202C-CS-SP MSD	680-89328-8 MSD	1CD22018.D	04/22/2013 17:10

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:38

Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	38.7	
68	Less than 2.0 % of mass 69	0.6	(1.3)1
69	Mass 69 relative abundance	48.8	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	45.9	
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	5.8	
275	10.0 - 60.0 % of mass 198	20.8	
365	Greater than 1.0 % of mass 198	5.1	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	76.7	
443	15.0 - 24.0 % of mass 442	16.1	(20.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136370/3	1CD11003.D	04/11/2013	11:56
	IC 660-136370/4	1CD11004.D	04/11/2013	12:35
	IC 660-136370/5	1CD11005.D	04/11/2013	12:53
	IC 660-136370/6	1CD11006.D	04/11/2013	13:11
	IC 660-136370/7	1CD11007.D	04/11/2013	13:30
	IC 660-136370/8	1CD11008.D	04/11/2013	13:48
	IC 660-136370/9	1CD11009.D	04/11/2013	14:06
	ICV 660-136370/10	1CD11010.D	04/11/2013	14:25

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1CD19002.D DFTPP Injection Date: 04/19/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:08

Analysis Batch No.: 136655

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.8	
68	Less than 2.0 % of mass 69	0.9	(1.9)1
69	Mass 69 relative abundance	46.0	
70	Less than 2.0 % of mass 69	0.5	(1.0)1
127	10.0 - 80.0 % of mass 198	47.6	
197	Less than 2.0 % of mass 198	1.2	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.5	
275	10.0 - 60.0 % of mass 198	22.6	
365	Greater than 1.0 % of mass 198	6.6	
441	Present but less than mass 443	12.1	
442	Greater than 50.0 % of mass 198	73.9	
443	15.0 - 24.0 % of mass 442	13.9	(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 660-136655/3	1CD19003.D	04/19/2013	11:24
	MB 660-136551/1-A	1CD19012.D	04/19/2013	14:23
	LCS 660-136551/2-A	1CD19013.D	04/19/2013	14:42
	680-89220-A-41-B MS	1CD19019.D	04/19/2013	16:39
	680-89220-A-41-C MSD	1CD19020.D	04/19/2013	16:57
HP0040A-CS	680-89328-1	1CD19025.D	04/19/2013	18:29
HP0040A-CSD	680-89328-2	1CD19026.D	04/19/2013	18:47
HP0040B-CS	680-89328-3	1CD19027.D	04/19/2013	19:05
HP0083A-CS-SP	680-89328-4	1CD19028.D	04/19/2013	19:23
HP0083B-CS-SP	680-89328-5	1CD19029.D	04/19/2013	19:42
HP0202A-CS-SP	680-89328-6	1CD19030.D	04/19/2013	20:00
HP0202B-CS-SP	680-89328-7	1CD19031.D	04/19/2013	20:18
CV0224A-CS	680-89328-9	1CD19032.D	04/19/2013	20:37
CV0224B-CS	680-89328-10	1CD19033.D	04/19/2013	20:55
CV0401A-CS	680-89328-11	1CD19034.D	04/19/2013	21:13
CV0401B-CS	680-89328-12	1CD19035.D	04/19/2013	21:32

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1CD22002.D DFTPP Injection Date: 04/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:33

Analysis Batch No.: 136698

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	59.9	
68	Less than 2.0 % of mass 69	1.1	(1.9)1
69	Mass 69 relative abundance	60.9	
70	Less than 2.0 % of mass 69	0.7	(1.1)1
127	10.0 - 80.0 % of mass 198	56.3	
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	7.8	
275	10.0 - 60.0 % of mass 198	28.5	
365	Greater than 1.0 % of mass 198	6.9	
441	Present but less than mass 443	11.8	
442	Greater than 50.0 % of mass 198	72.8	
443	15.0 - 24.0 % of mass 442	15.2	(20.8)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 660-136698/3	1CD22003.D	04/22/2013	11:50
CV0401B-CS DL	680-89328-12 DL	1CD22010.D	04/22/2013	14:33
	MB 660-136637/1-A	1CD22012.D	04/22/2013	15:20
	LCS 660-136637/2-A	1CD22013.D	04/22/2013	15:38
HP0202C-CS-SP	680-89328-8	1CD22016.D	04/22/2013	16:33
HP0202C-CS-SP MS	680-89328-8 MS	1CD22017.D	04/22/2013	16:51
HP0202C-CS-SP MSD	680-89328-8 MSD	1CD22018.D	04/22/2013	17:10

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:15

Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	45.4	
70	Less than 2.0 % of mass 69	0.2	(0.3)1
127	10.0 - 80.0 % of mass 198	50.5	
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	6.9	
275	10.0 - 60.0 % of mass 198	26.7	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	3.3	
442	Greater than 50.0 % of mass 198	67.1	
443	15.0 - 24.0 % of mass 442	13.9	(20.6)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 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1DD22002.D DFTPP Injection Date: 04/22/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:26

Analysis Batch No.: 136733

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	47.0	
68	Less than 2.0 % of mass 69	0.2	(0.4)1
69	Mass 69 relative abundance	45.5	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	49.7	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.0	
275	10.0 - 60.0 % of mass 198	26.8	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	0.7	
442	Greater than 50.0 % of mass 198	74.0	
443	15.0 - 24.0 % of mass 442	15.0	(20.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136733/3	1DD22003.D	04/22/2013	10:43
	MB 660-136604/1-A	1DD22005.D	04/22/2013	11:30
	LCS 660-136604/2-A	1DD22006.D	04/22/2013	11:53
	680-89275-A-21-B MS	1DD22008.D	04/22/2013	12:38
	680-89275-A-21-C MSD	1DD22009.D	04/22/2013	13:00
CV0405A-CS	680-89328-13	1DD22010.D	04/22/2013	13:23
CV0405B-CS	680-89328-14	1DD22011.D	04/22/2013	13:46
CV0993A-CS	680-89328-15	1DD22012.D	04/22/2013	14:08
CV0993B-CS	680-89328-16	1DD22013.D	04/22/2013	14:31
CV1290A-CS	680-89328-17	1DD22014.D	04/22/2013	14:53
CV1117A-CS	680-89328-18	1DD22015.D	04/22/2013	15:16
CV1117B-CS	680-89328-19	1DD22016.D	04/22/2013	15:38
CV1117C-GS	680-89328-20	1DD22017.D	04/22/2013	16:01

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab File ID: 1DD23003.D DFTPP Injection Date: 04/23/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:50

Analysis Batch No.: 136756

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	41.5	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	50.5	
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	7.1	
275	10.0 - 60.0 % of mass 198	30.3	
365	Greater than 1.0 % of mass 198	4.1	
441	Present but less than mass 443	7.5	
442	Greater than 50.0 % of mass 198	94.6	
443	15.0 - 24.0 % of mass 442	18.5	(19.6)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
	CCV 660-136756/4	1DD23004.D	04/23/2013	13:06
CV0993B-CS DL	680-89328-16 DL	1DD23006.D	04/23/2013	14:52
CV1290A-CS DL	680-89328-17 DL	1DD23007.D	04/23/2013	15:14

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56

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

Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		245713	3.68	179699	4.76	320372	5.70
UPPER LIMIT		491426	4.18	359398	5.26	640744	6.20
LOWER LIMIT		122857	3.18	89850	4.26	160186	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		273342	3.67	204687	4.76	380421	5.70

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56

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

Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		410945	7.65	438804	8.80		
UPPER LIMIT		821890	8.15	877608	9.30		
LOWER LIMIT		205473	7.15	219402	8.30		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		501991	7.64	491170	8.80		

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: CCVIS 660-136655/3 Date Analyzed: 04/19/2013 11:24

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

Lab File ID (Standard): 1CD19003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		187771	3.66	127904	4.74	242114	5.69
UPPER LIMIT		375542	4.16	255808	5.24	484228	6.19
LOWER LIMIT		93886	3.16	63952	4.24	121057	5.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136551/1-A		211094	3.66	141041	4.75	261212	5.69
LCS 660-136551/2-A		191532	3.66	127190	4.74	236731	5.69
680-89220-A-41-B MS		214315	3.66	156773	4.74	278425	5.69
680-89220-A-41-C MSD		234812	3.66	166333	4.75	324473	5.69
680-89328-1	HP0040A-CS	283890	3.66	187355	4.75	334330	5.69
680-89328-2	HP0040A-CSD	268839	3.66	183159	4.75	343588	5.69
680-89328-3	HP0040B-CS	279253	3.66	194000	4.75	345775	5.69
680-89328-4	HP0083A-CS-SP	259341	3.66	186213	4.75	328637	5.69
680-89328-5	HP0083B-CS-SP	249452	3.66	175684	4.75	324214	5.69
680-89328-6	HP0202A-CS-SP	241079	3.66	177493	4.75	317926	5.69
680-89328-7	HP0202B-CS-SP	261811	3.66	176582	4.75	320355	5.69
680-89328-9	CV0224A-CS	240805	3.66	164944	4.75	305996	5.69
680-89328-10	CV0224B-CS	257947	3.66	183077	4.75	315398	5.69
680-89328-11	CV0401A-CS	234810	3.66	159087	4.75	296275	5.69
680-89328-12	CV0401B-CS	250586	3.66	171230	4.75	287627	5.69

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: CCVIS 660-136655/3 Date Analyzed: 04/19/2013 11:24

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

Lab File ID (Standard): 1CD19003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		311596	7.62	321703	8.77		
UPPER LIMIT		623192	8.12	643406	9.27		
LOWER LIMIT		155798	7.12	160852	8.27		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136551/1-A		295504	7.62	333814	8.79		
LCS 660-136551/2-A		297661	7.62	312222	8.77		
680-89220-A-41-B MS		345195	7.62	316003	8.77		
680-89220-A-41-C MSD		375136	7.62	361282	8.77		
680-89328-1	HP0040A-CS	376025	7.62	339351	8.77		
680-89328-2	HP0040A-CSD	383889	7.62	362610	8.77		
680-89328-3	HP0040B-CS	387931	7.62	351745	8.77		
680-89328-4	HP0083A-CS-SP	342609	7.62	303706	8.77		
680-89328-5	HP0083B-CS-SP	336913	7.62	303415	8.77		
680-89328-6	HP0202A-CS-SP	337392	7.62	321755	8.77		
680-89328-7	HP0202B-CS-SP	355981	7.62	312862	8.77		
680-89328-9	CV0224A-CS	319551	7.62	311854	8.77		
680-89328-10	CV0224B-CS	342848	7.62	333096	8.78		
680-89328-11	CV0401A-CS	315147	7.62	303636	8.77		
680-89328-12	CV0401B-CS	393682	7.63	376114	8.79		

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50

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

Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		177233	3.65	115325	4.74	215585	5.68
UPPER LIMIT		354466	4.15	230650	5.24	431170	6.18
LOWER LIMIT		88617	3.15	57663	4.24	107793	5.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89328-12 DL	CV0401B-CS DL	247770	3.65	162851	4.74	314204	5.69
MB 660-136637/1-A		198118	3.65	144074	4.74	250592	5.69
LCS 660-136637/2-A		194740	3.65	124944	4.74	229447	5.68
680-89328-8	HP0202C-CS-SP	211575	3.65	136482	4.74	267884	5.68
680-89328-8 MS	HP0202C-CS-SP MS	207649	3.65	130313	4.74	251724	5.68
680-89328-8 MSD	HP0202C-CS-SP MSD	215035	3.65	137990	4.74	254165	5.68

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50

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

Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		268224	7.62	275000	8.76		
UPPER LIMIT		536448	8.12	550000	9.26		
LOWER LIMIT		134112	7.12	137500	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89328-12 DL	CV0401B-CS DL	370392	7.63	347828	8.79		
MB 660-136637/1-A		308173	7.62	325429	8.78		
LCS 660-136637/2-A		303066	7.62	303188	8.76		
680-89328-8	HP0202C-CS-SP	312927	7.61	314833	8.76		
680-89328-8 MS	HP0202C-CS-SP MS	309063	7.61	299307	8.76		
680-89328-8 MSD	HP0202C-CS-SP MSD	301869	7.61	310059	8.76		

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

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

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2475113	6.09	1466924	7.77	2428512	9.03
UPPER LIMIT		4950226	6.59	2933848	8.27	4857024	9.53
LOWER LIMIT		1237557	5.59	733462	7.27	1214256	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136164/22		3619899	6.10	2333423	7.77	3845474	9.03

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

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

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2464730	11.34	2515643	13.17		
UPPER LIMIT		4929460	11.84	5031286	13.67		
LOWER LIMIT		1232365	10.84	1257822	12.67		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136164/22		3963674	11.35	3958481	13.18		

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: CCVIS 660-136733/3 Date Analyzed: 04/22/2013 10:43

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

Lab File ID (Standard): 1DD22003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1796455	6.05	1037513	7.73	1775352	9.00
UPPER LIMIT		3592910	6.55	2075026	8.23	3550704	9.50
LOWER LIMIT		898228	5.55	518757	7.23	887676	8.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136604/1-A		2232943	6.06	1323504	7.74	2206229	8.99
LCS 660-136604/2-A		1931895	6.05	1141255	7.74	1907584	8.99
680-89275-A-21-B MS		2093932	6.05	1246507	7.74	2071815	9.00
680-89275-A-21-C MSD		1863685	6.06	1105330	7.74	1822597	9.00
680-89328-13	CV0405A-CS	2001757	6.06	1182774	7.74	1978694	9.00
680-89328-14	CV0405B-CS	1926956	6.06	1118788	7.74	1854086	9.00
680-89328-15	CV0993A-CS	1937950	6.06	1145541	7.74	1877931	9.00
680-89328-16	CV0993B-CS	2024258	6.06	1178284	7.74	1938743	9.00
680-89328-17	CV1290A-CS	1925384	6.06	1142740	7.74	1883970	9.00
680-89328-18	CV1117A-CS	1906972	6.06	1123736	7.74	1858995	9.01
680-89328-19	CV1117B-CS	1936683	6.06	1130935	7.74	1861790	9.00
680-89328-20	CV1117C-GS	2054922	6.06	1198128	7.74	2004536	9.01

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.: 680-89328-1

SDG No.: 68089328-1

Sample No.: CCVIS 660-136733/3 Date Analyzed: 04/22/2013 10:43

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

Lab File ID (Standard): 1DD22003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1817611	11.31	1852984	13.12		
UPPER LIMIT		3635222	11.81	3705968	13.62		
LOWER LIMIT		908806	10.81	926492	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136604/1-A		2159386	11.30	2217702	13.12		
LCS 660-136604/2-A		1920971	11.30	1914100	13.12		
680-89275-A-21-B MS		2259125	11.31	2571607	13.15		
680-89275-A-21-C MSD		2040070	11.32	2299548	13.15		
680-89328-13	CV0405A-CS	2382475	11.32	2763186	13.16		
680-89328-14	CV0405B-CS	1963314	11.32	2281881	13.14		
680-89328-15	CV0993A-CS	2082461	11.31	2358121	13.15		
680-89328-16	CV0993B-CS	2400646	11.33	2456919	13.16		
680-89328-17	CV1290A-CS	2946842	11.33	2210621	13.17		
680-89328-18	CV1117A-CS	2210416	11.32	2112821	13.15		
680-89328-19	CV1117B-CS	2200049	11.32	2117933	13.15		
680-89328-20	CV1117C-GS	2343515	11.32	2224693	13.15		

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.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0040A-CS | Lab Sample ID: 680-89328-1

Matrix: Solid | Lab File ID: 1CD19025.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 08:50

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.42(g) | Date Analyzed: 04/19/2013 18:29

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

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

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

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	43	J	46	5.8
120-12-7	Anthracene	35		9.7	4.8
56-55-3	Benzo[a]anthracene	150		9.2	4.5
50-32-8	Benzo[a]pyrene	150		12	6.0
205-99-2	Benzo[b]fluoranthene	210		14	7.0
191-24-2	Benzo[g,h,i]perylene	140		23	5.1
207-08-9	Benzo[k]fluoranthene	100		9.2	4.2
218-01-9	Chrysene	210		10	5.2
53-70-3	Dibenz(a,h)anthracene	90		23	4.7
206-44-0	Fluoranthene	250		23	4.6
86-73-7	Fluorene	31		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	160		23	8.2
90-12-0	1-Methylnaphthalene	95		46	5.1
91-57-6	2-Methylnaphthalene	130		46	8.2
91-20-3	Naphthalene	100		46	5.1
85-01-8	Phenanthrene	220		9.2	4.5
129-00-0	Pyrene	200		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19025.D
Lab Smp Id: 680-89328-A-1-A Client Smp ID: HP0040A-CS
Inj Date : 19-APR-2013 18:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-1-a
Misc Info : 680-89328-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 25
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	15.658	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.657	3.657	(1.000)	283890	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.739	(1.000)	187355	40.0000	
* 10 Phenanthrene-d10	188	5.686	5.686	(1.000)	334330	40.0000	
$ 14 o-Terphenyl	230	5.939	5.933	(1.044)	34140	6.85616	527.1707
* 18 Chrysene-d12	240	7.621	7.615	(1.000)	376025	40.0000	
* 23 Perylene-d12	264	8.774	8.768	(1.000)	339351	40.0000	
2 Naphthalene	128	3.668	3.669	(1.003)	10304	1.34272	103.2417
3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	7419	1.71826	132.1171
4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	6078	1.23994	95.3391
5 Acenaphthylene	152	4.657	4.657	(0.981)	4436	0.55877	42.9635(Q)
9 Fluorene	166	5.086	5.080	(1.072)	2462	0.40437	31.0924
11 Phenanthrene	178	5.698	5.698	(1.002)	27782	2.83619	218.0746
12 Anthracene	178	5.733	5.733	(1.008)	4396	0.45292	34.8248
13 Carbazole	167	5.845	5.845	(1.028)	6635	0.73399	56.4364

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.533	6.533	(1.149)	34902	3.21804	247.4353
16 Pyrene	202	6.698	6.698	(0.879)	28345	2.64968	203.7342
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	20207	1.90036	146.1189
19 Chrysene	228	7.639	7.639	(1.002)	28069	2.66843	205.1755
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	23542	2.74666	211.1909(M)
21 Benzo(k)fluoranthene	252	8.451	8.457	(0.963)	13051	1.34564	103.4666(M)
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	16833	1.89992	146.0848
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	12812	2.09497	161.0822(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.892	(1.129)	6287	1.17052	90.0013(M)
26 Benzo(g,h,i)perylene	276	10.233	10.209	(1.166)	14889	1.79291	137.8569(M)

QC Flag Legend

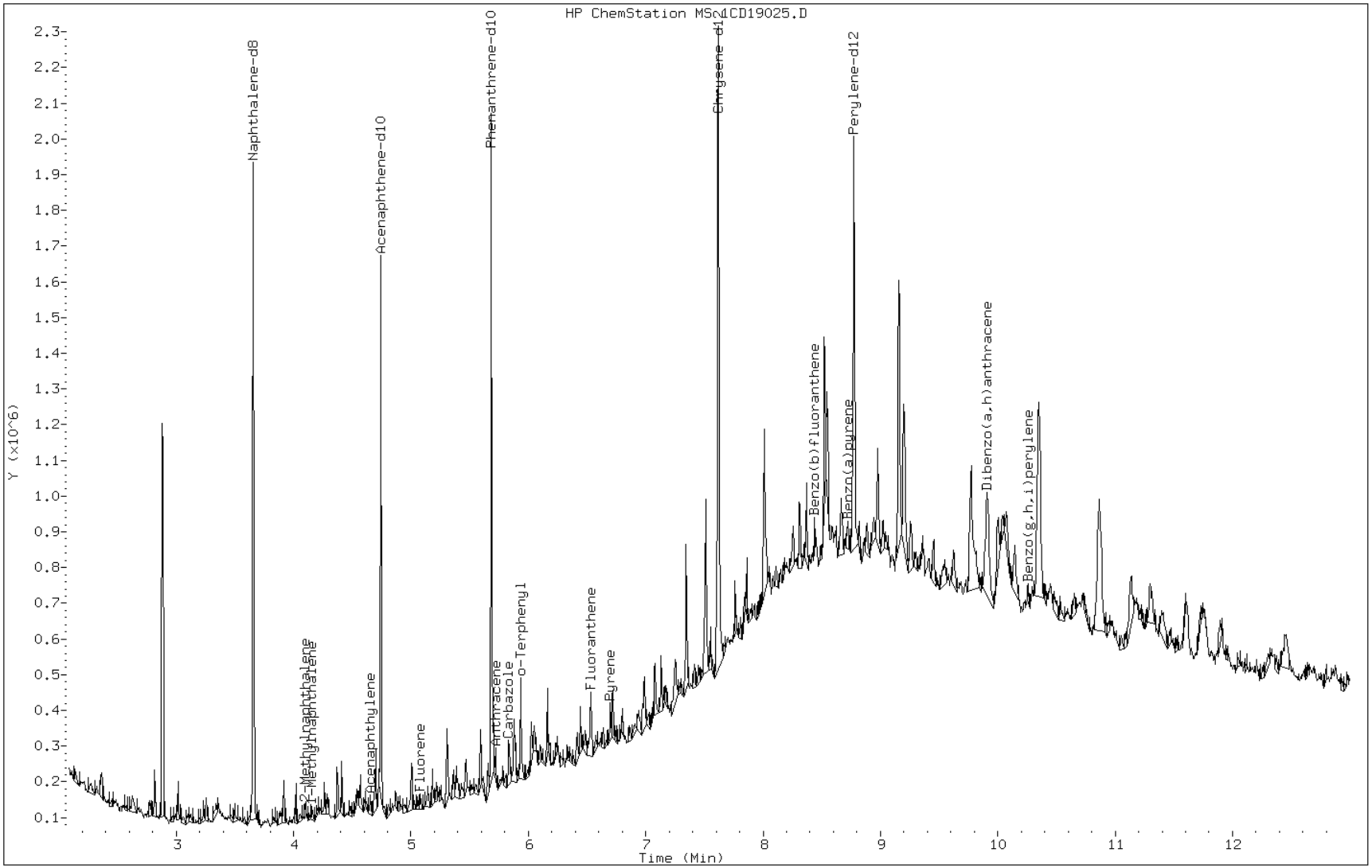
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC



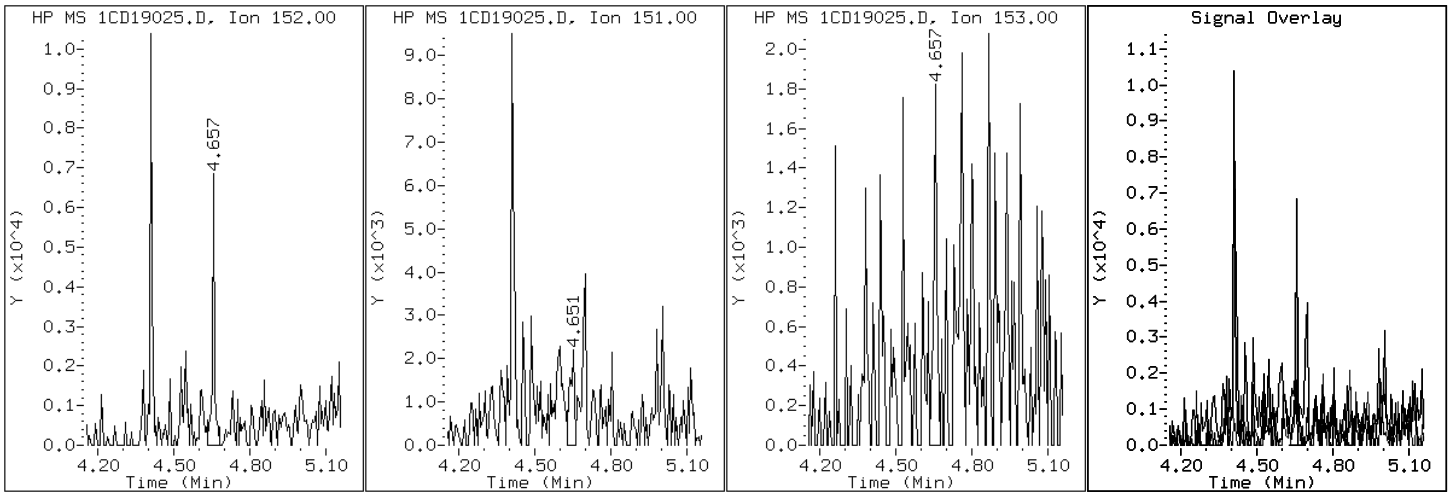
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

5 Acenaphthylene



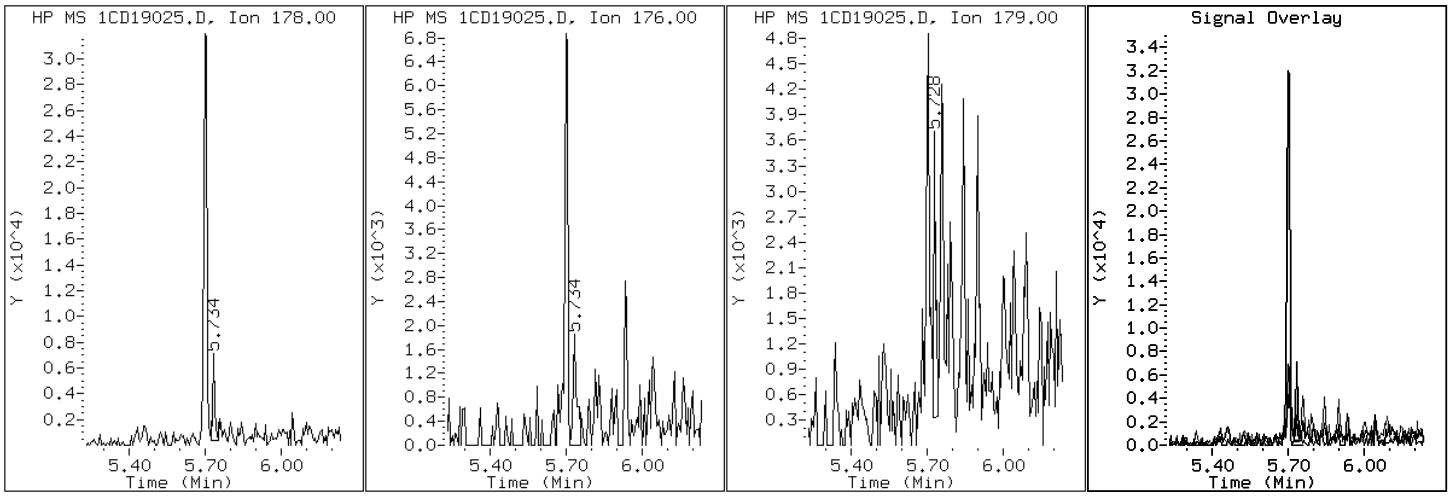
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

12 Anthracene



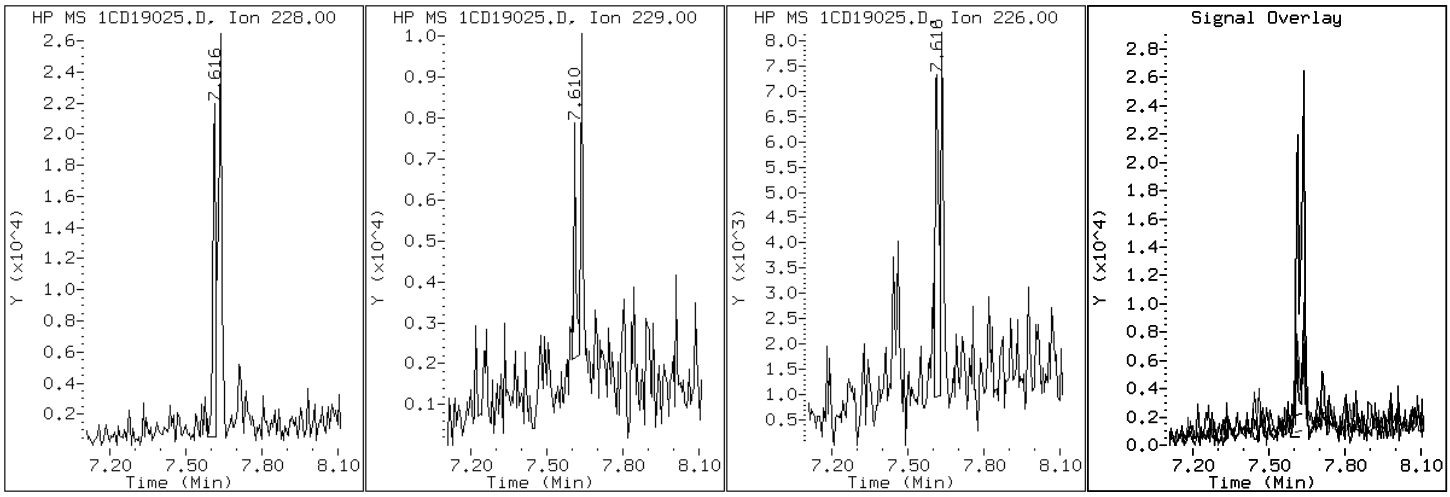
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

17 Benzo(a)anthracene



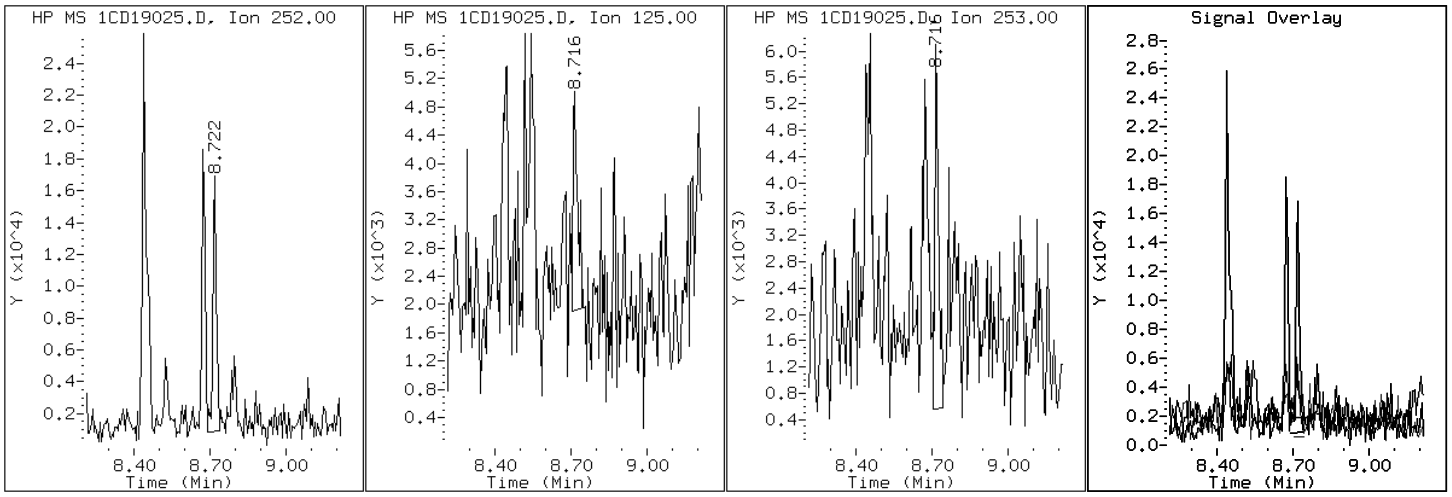
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

22 Benzo(a)pyrene



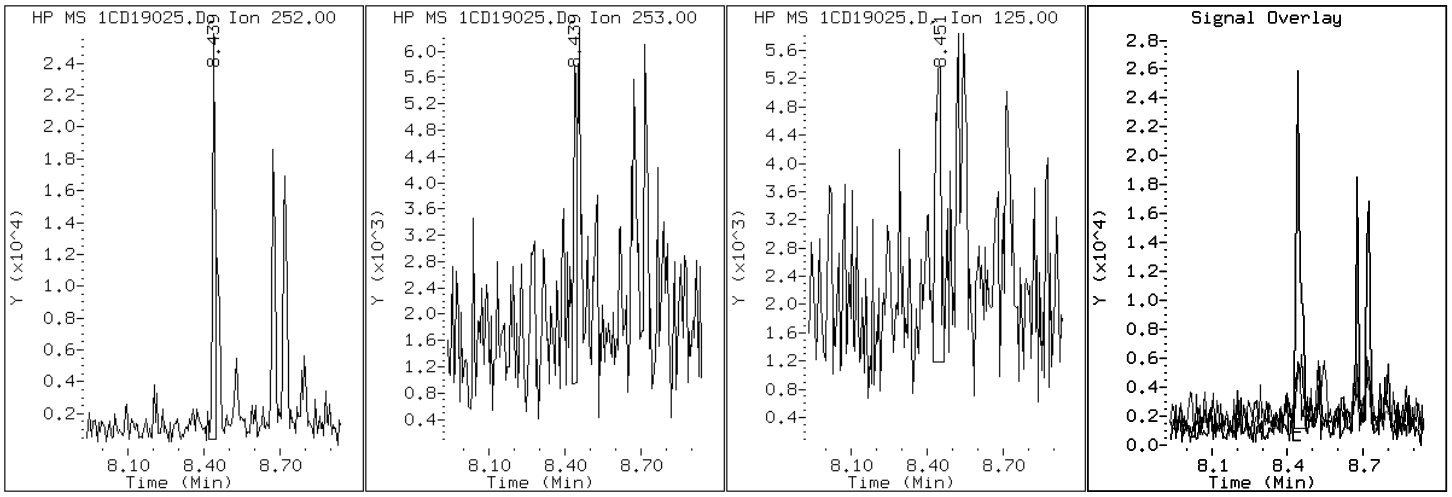
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



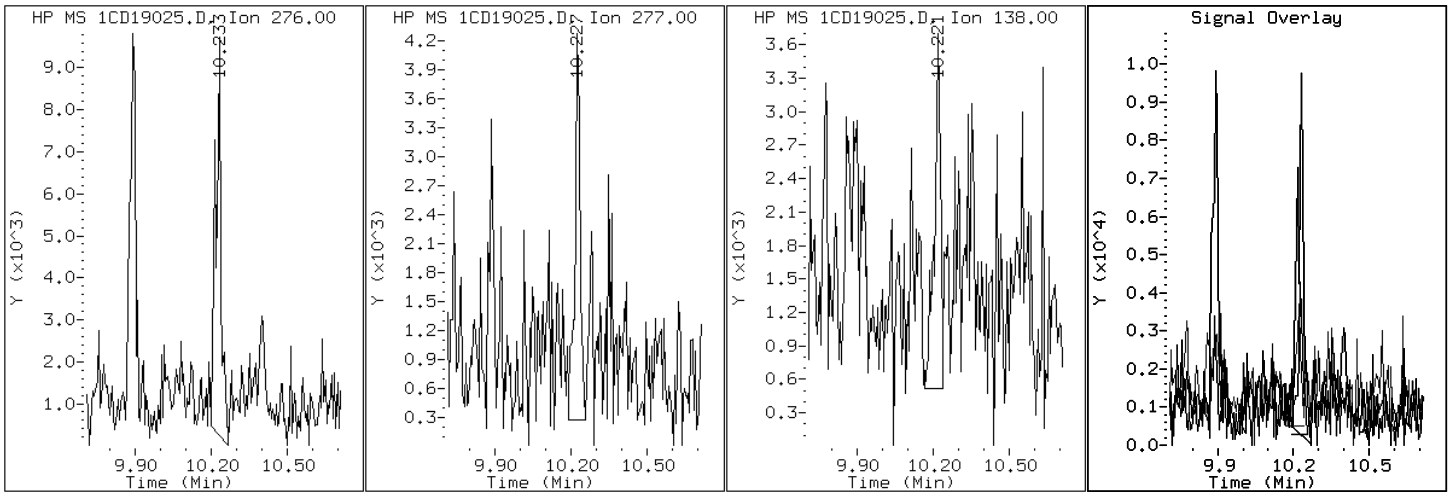
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



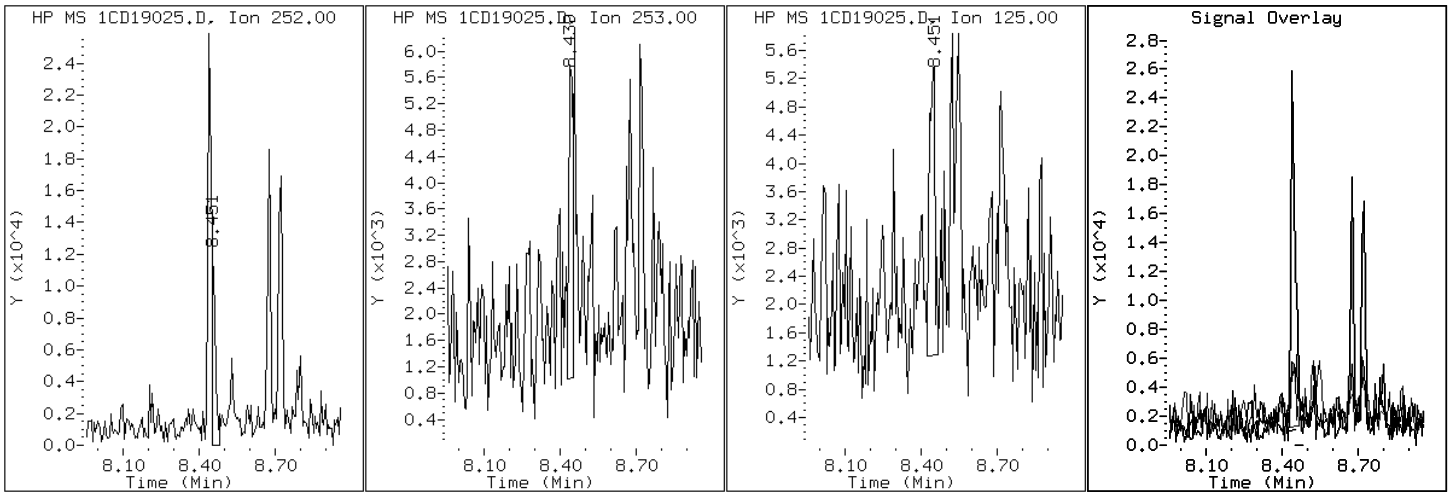
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



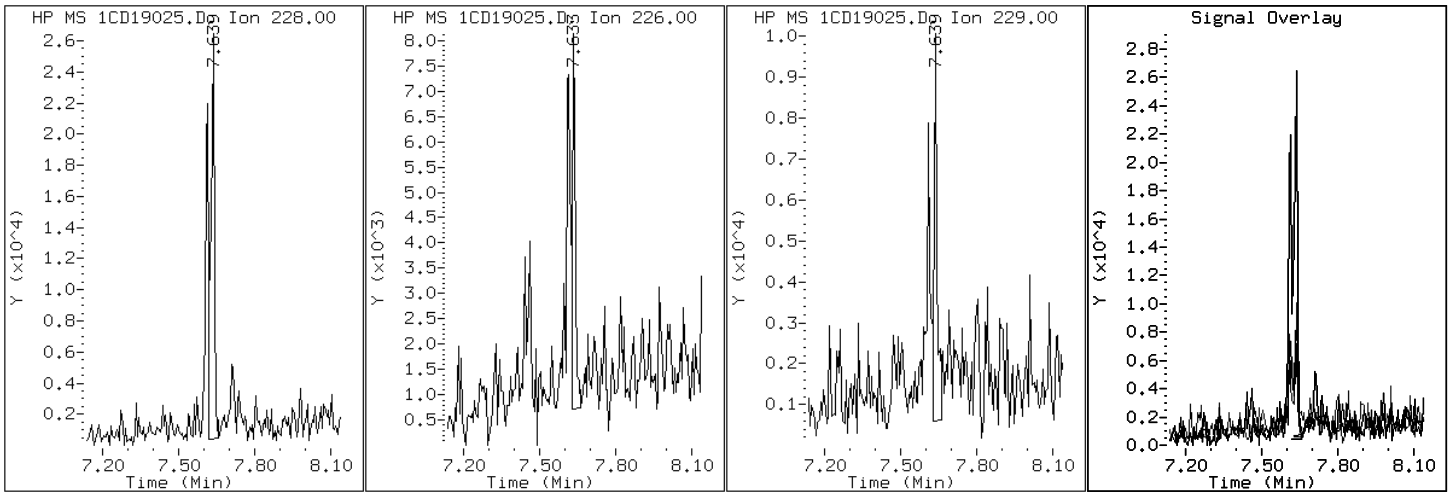
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

19 Chrysene



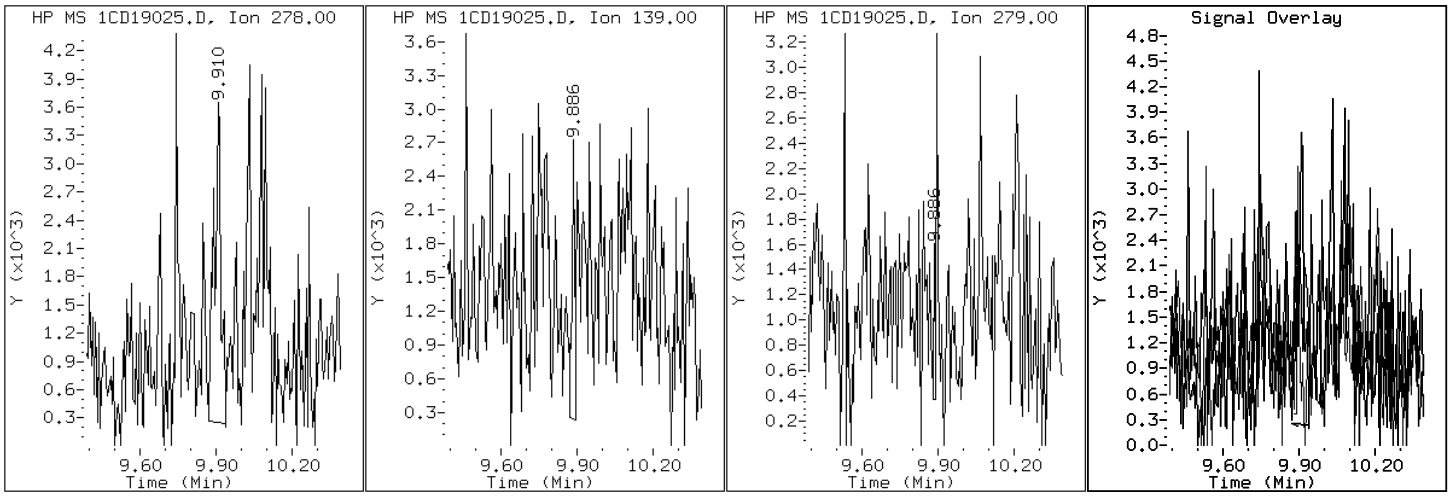
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



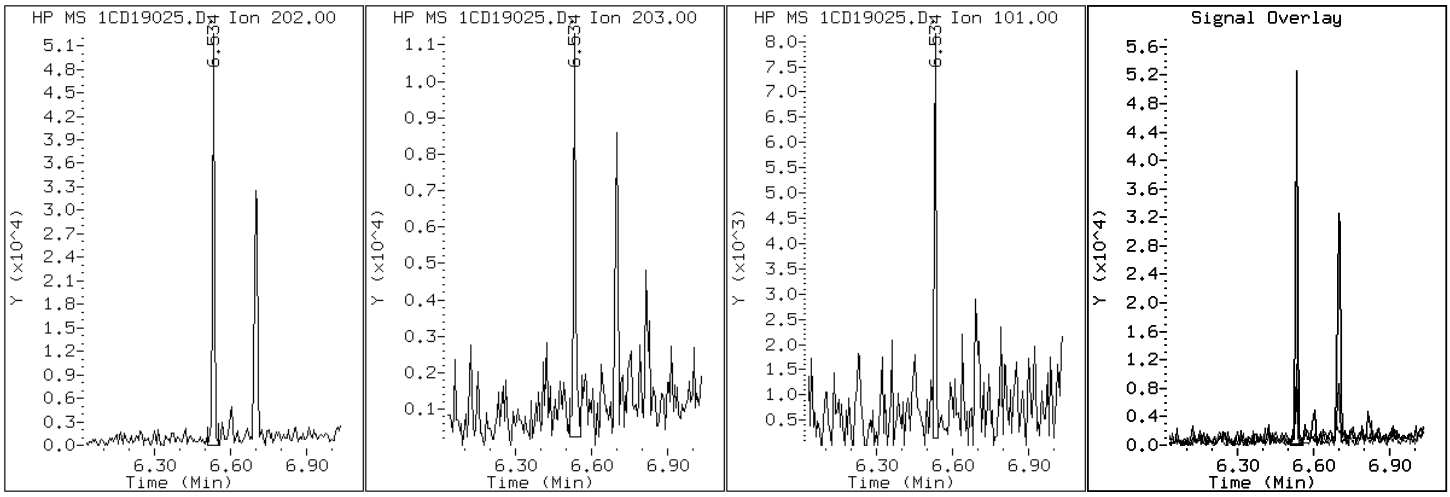
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

15 Fluoranthene



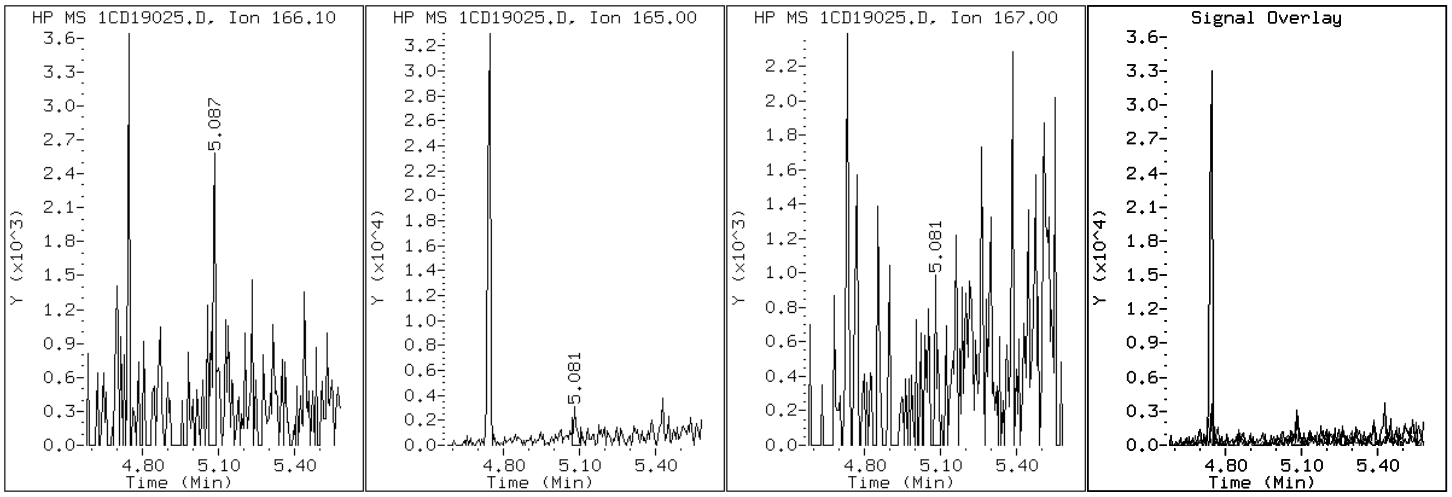
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

9 Fluorene



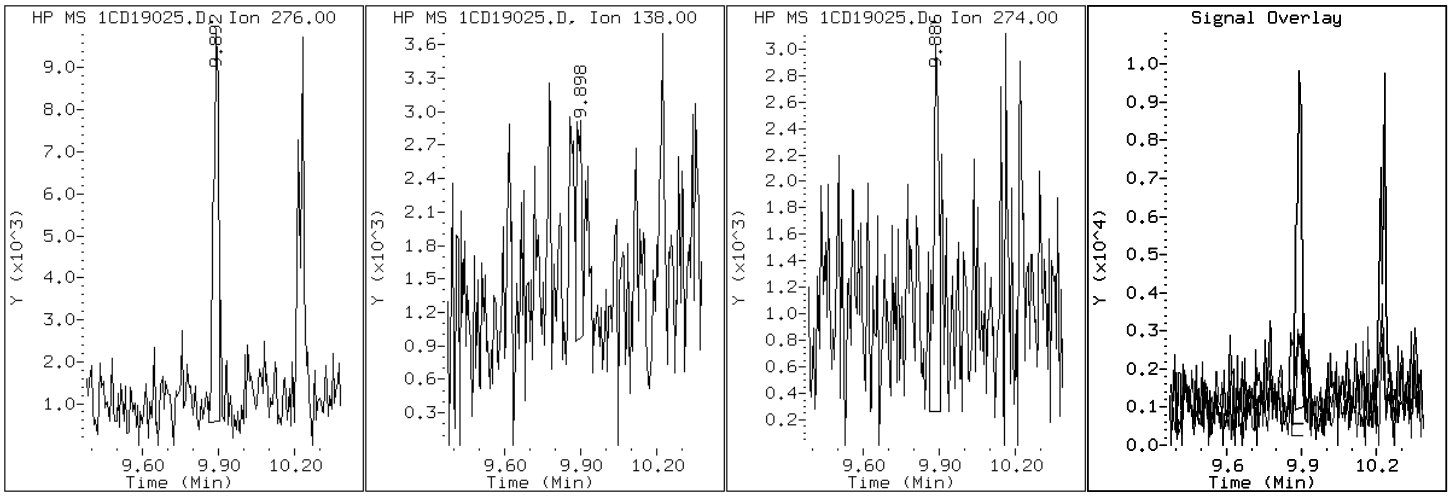
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

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



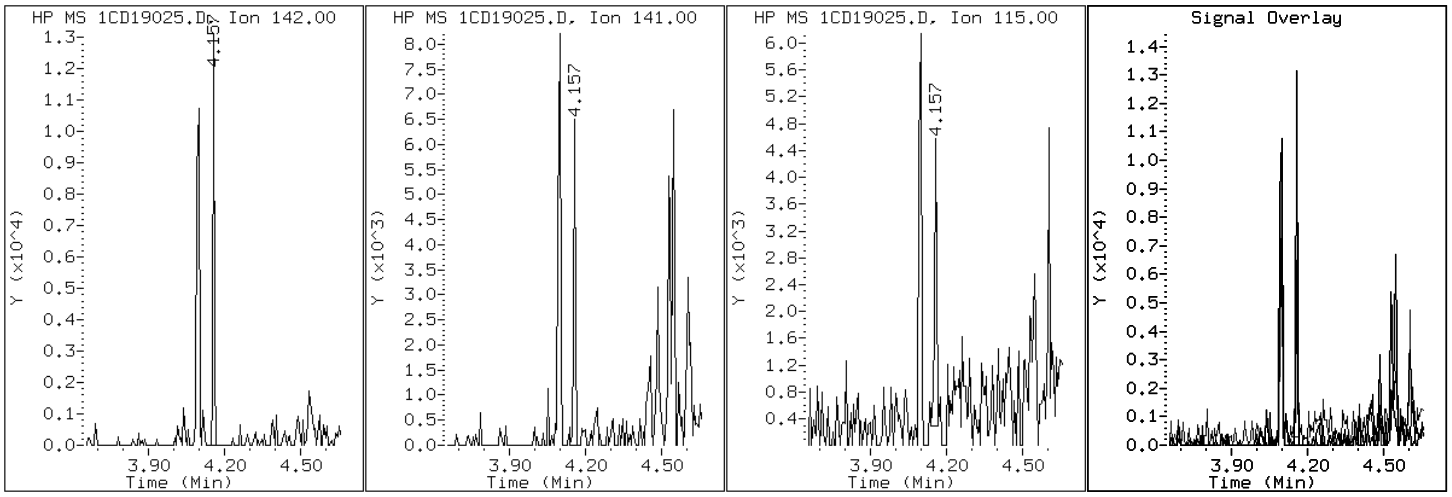
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

4 1-Methylnaphthalene



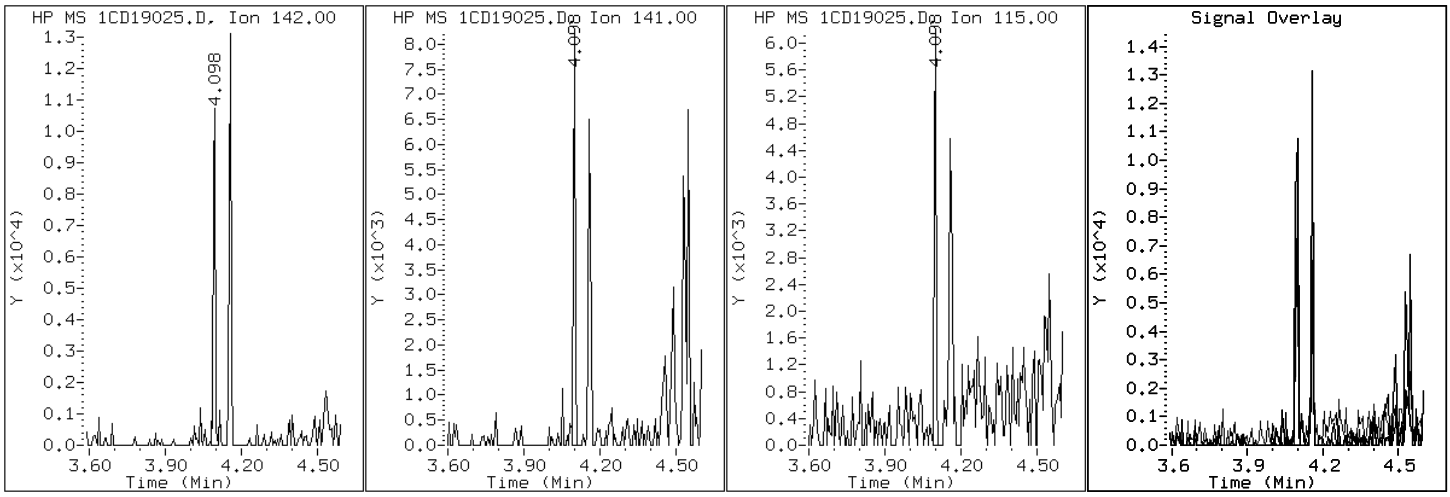
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

3 2-Methylnaphthalene



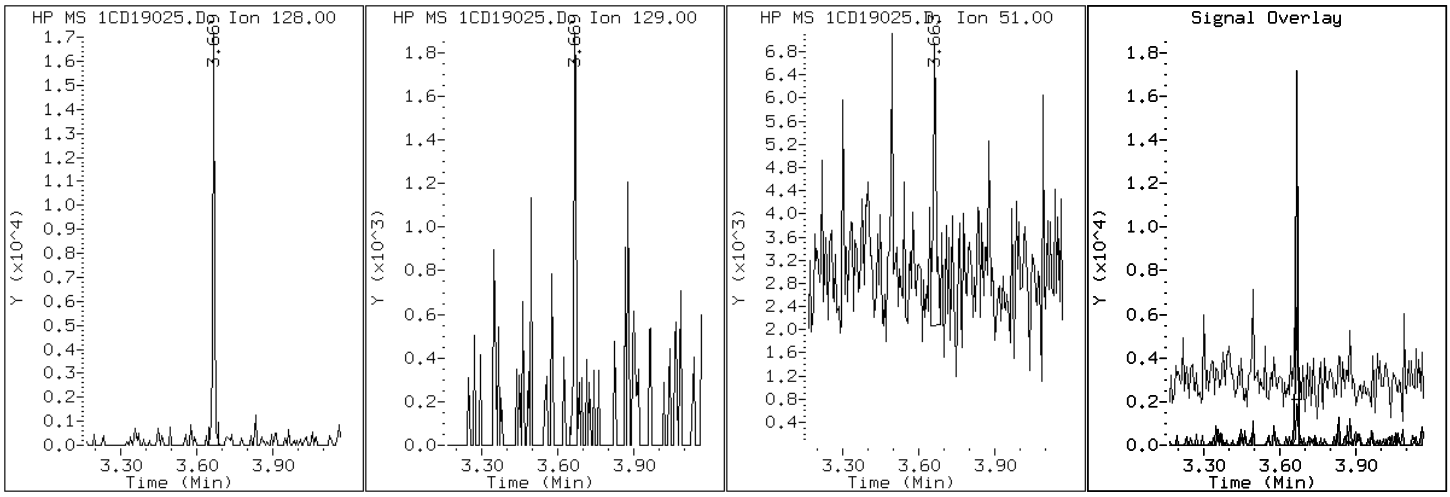
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

2 Naphthalene



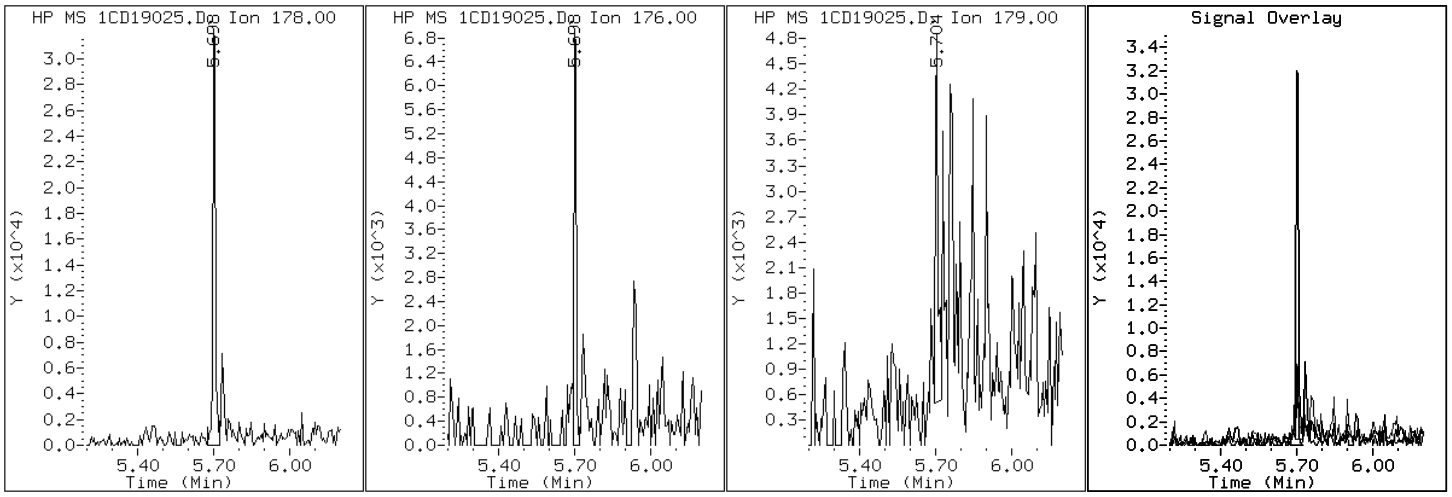
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

11 Phenanthrene



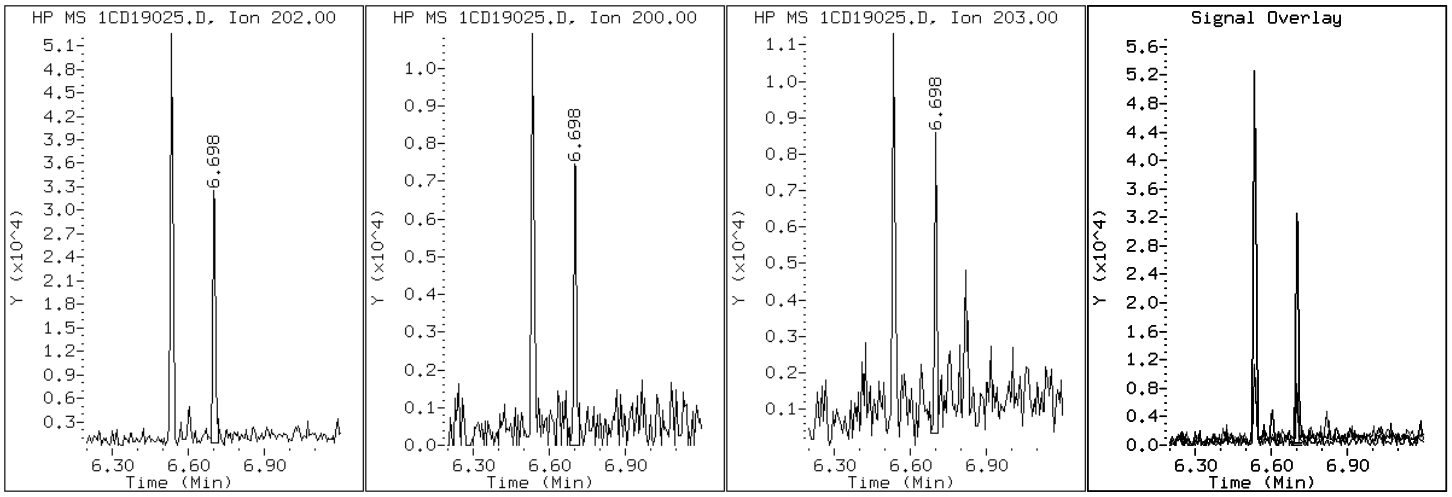
Data File: 1CD19025.D

Date: 19-APR-2013 18:29

Client ID: HP0040A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19025.D
Inj. Date and Time: 19-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: HP0040A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

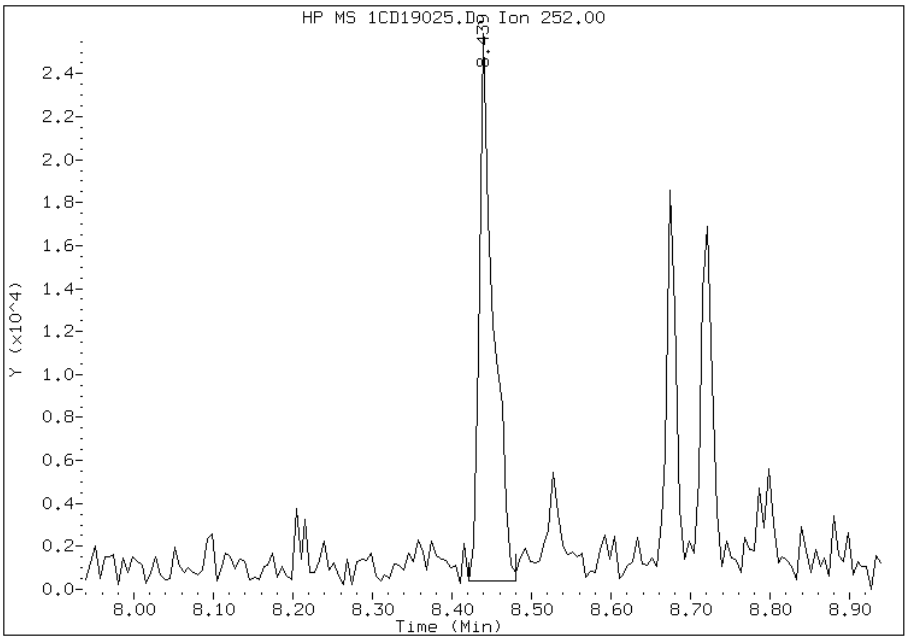
Processing Integration Results

RT: 8.44

Response: 31602

Amount: 4

Conc: 283



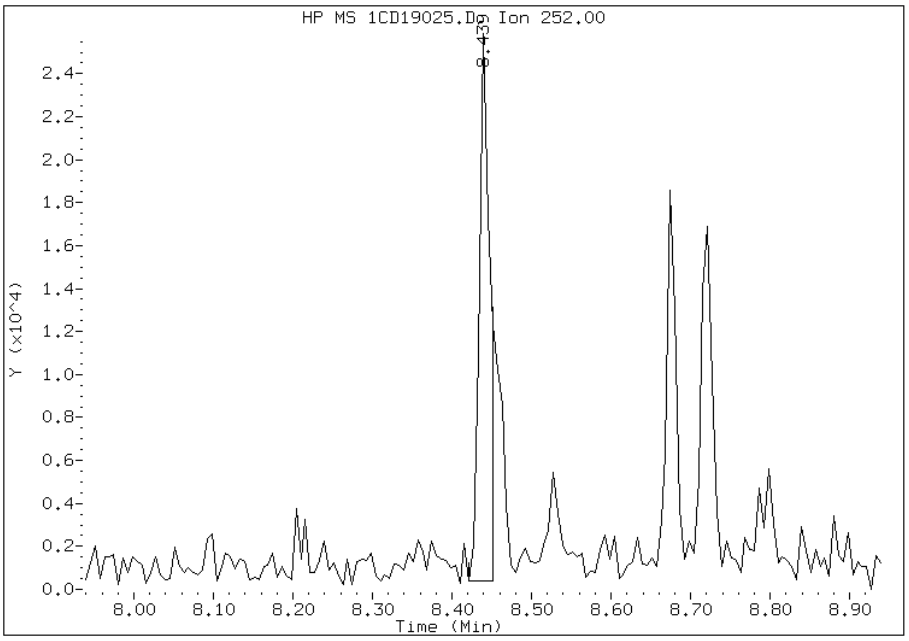
Manual Integration Results

RT: 8.44

Response: 23542

Amount: 3

Conc: 211



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19025.D
Inj. Date and Time: 19-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: HP0040A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/22/2013

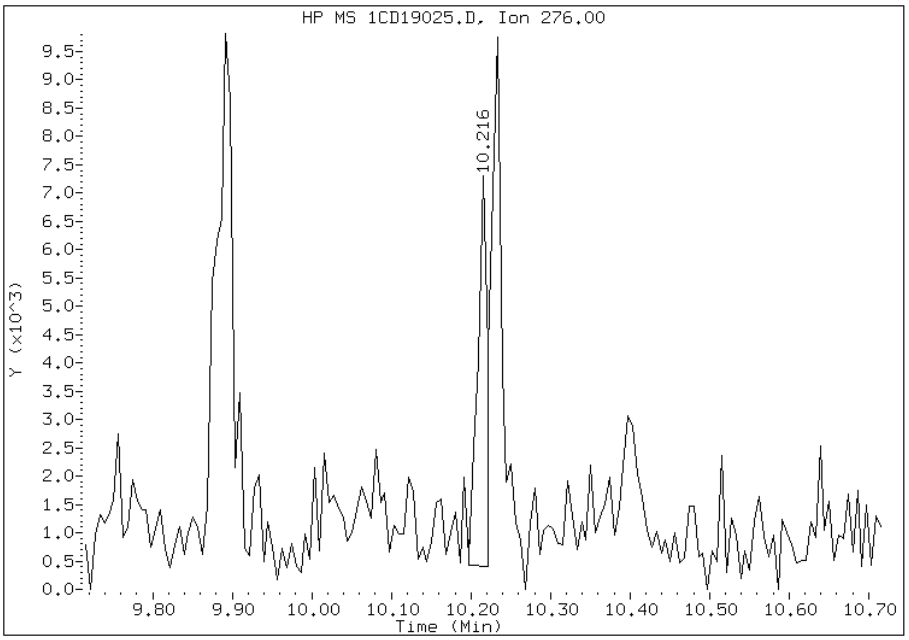
Processing Integration Results

RT: 10.22

Response: 5837

Amount: 1

Conc: 54



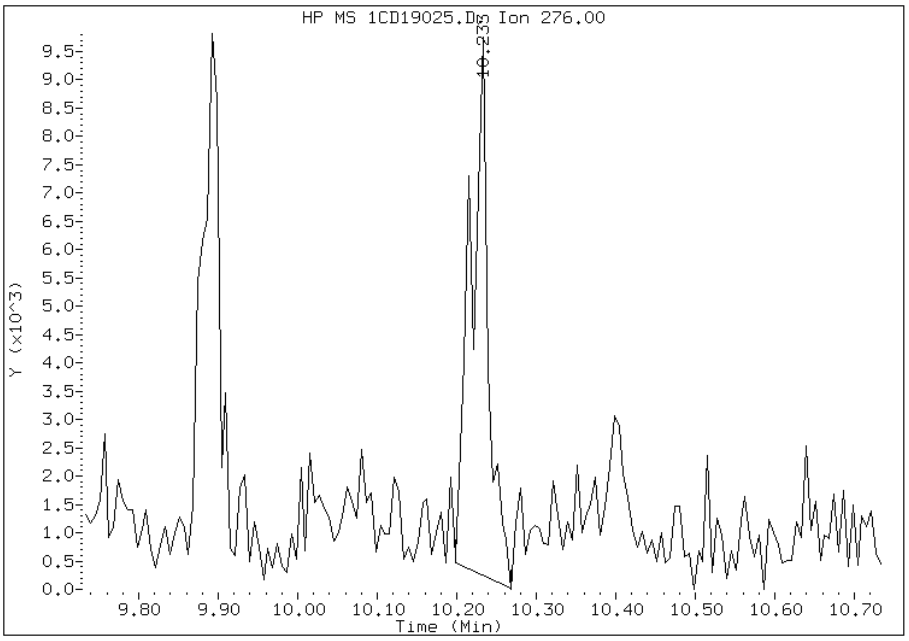
Manual Integration Results

RT: 10.23

Response: 14889

Amount: 2

Conc: 138



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19025.D
Inj. Date and Time: 19-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: HP0040A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

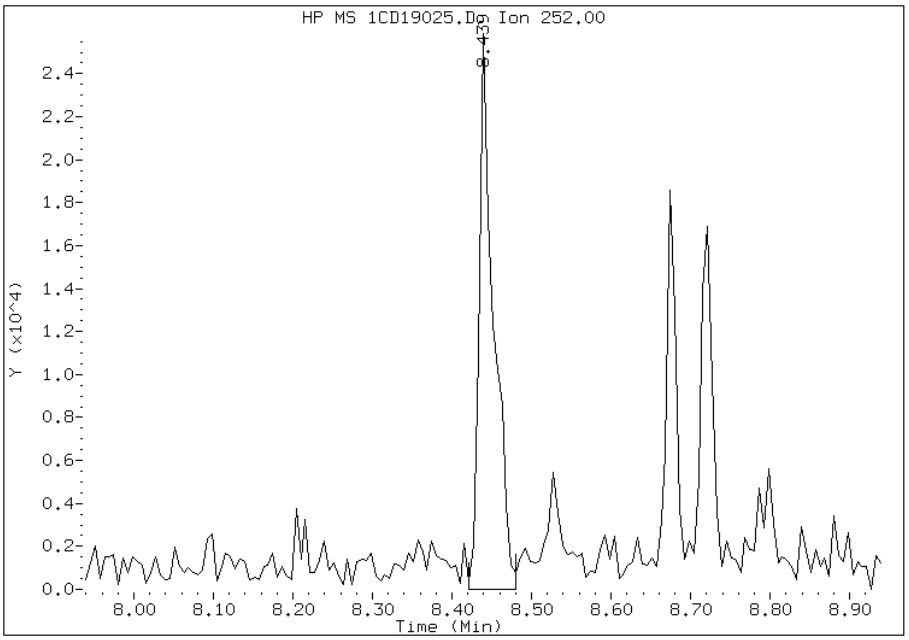
Processing Integration Results

RT: 8.44

Response: 32985

Amount: 3

Conc: 262



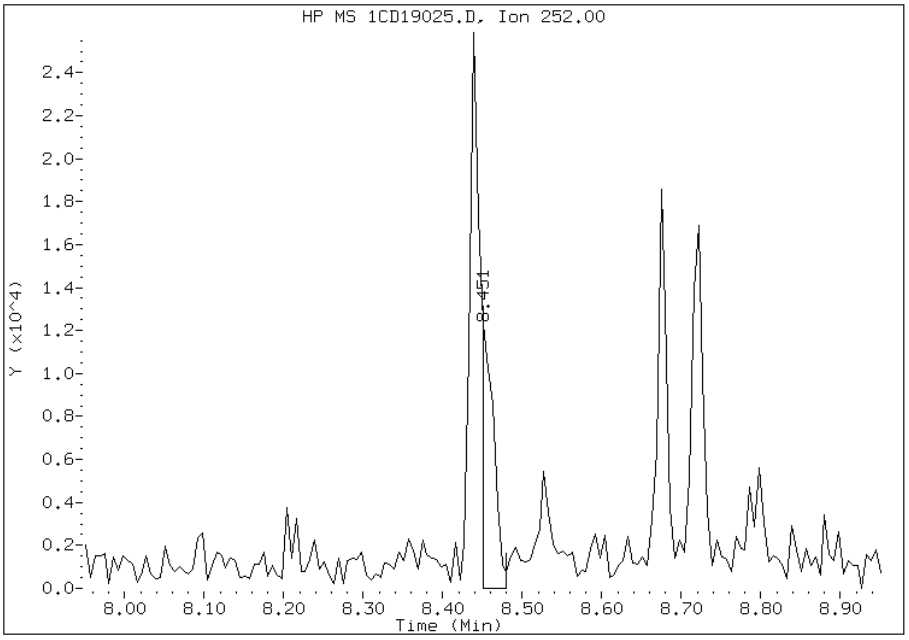
Manual Integration Results

RT: 8.45

Response: 13051

Amount: 1

Conc: 103



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19025.D
Inj. Date and Time: 19-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: HP0040A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/22/2013

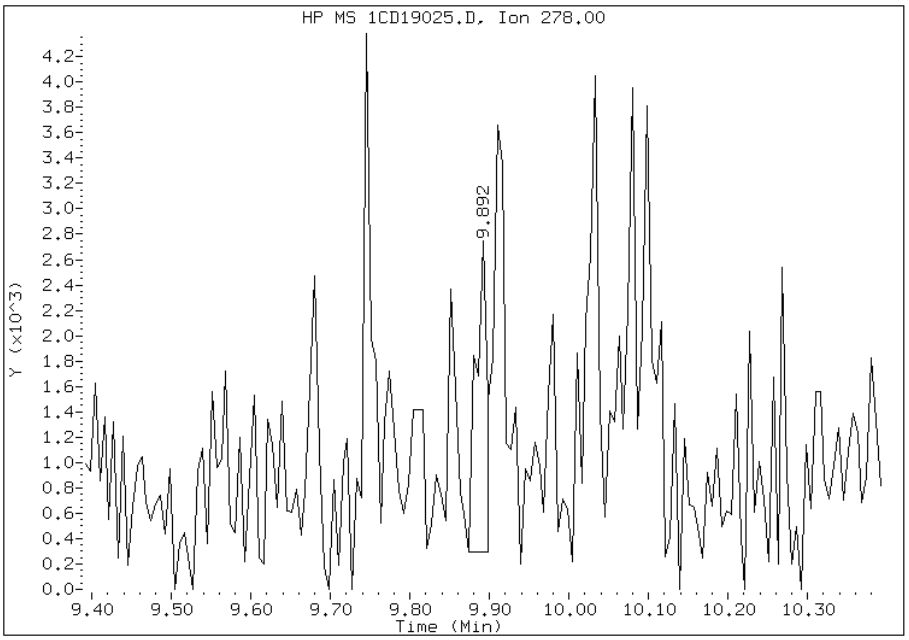
Processing Integration Results

RT: 9.89

Response: 2326

Amount: 1

Conc: 55



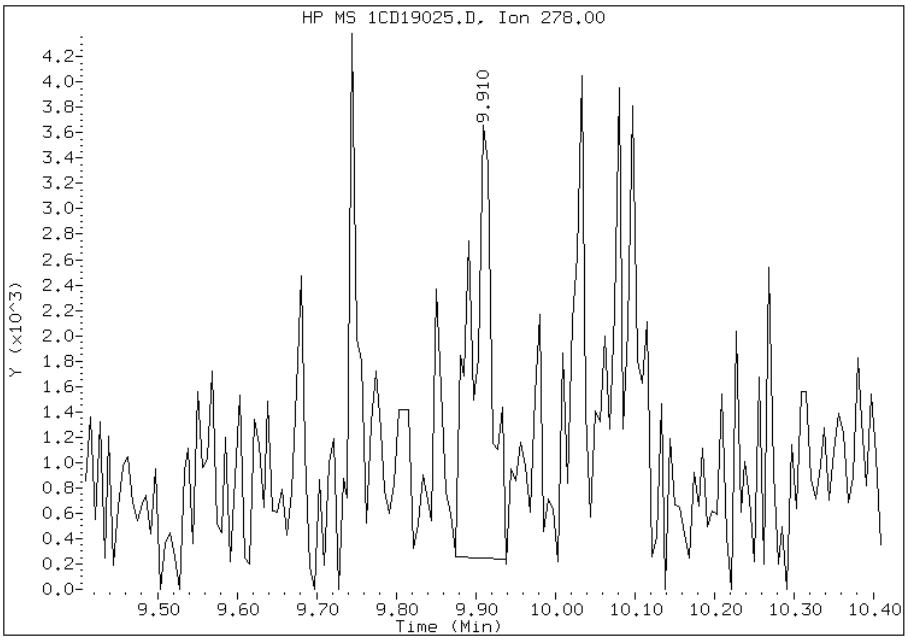
Manual Integration Results

RT: 9.91

Response: 6287

Amount: 1

Conc: 90



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19025.D
Inj. Date and Time: 19-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: HP0040A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

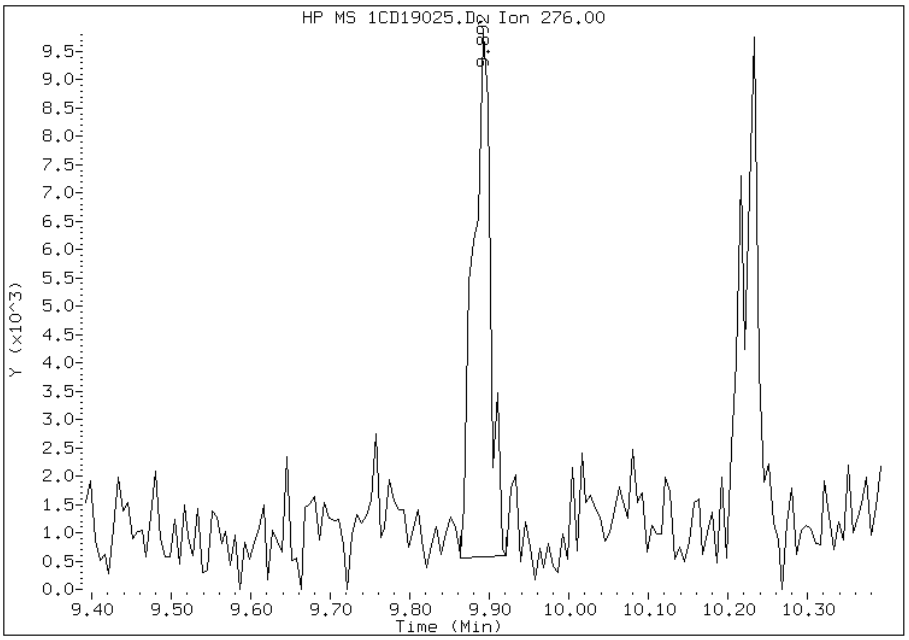
Processing Integration Results

RT: 9.89

Response: 13868

Amount: 2

Conc: 170



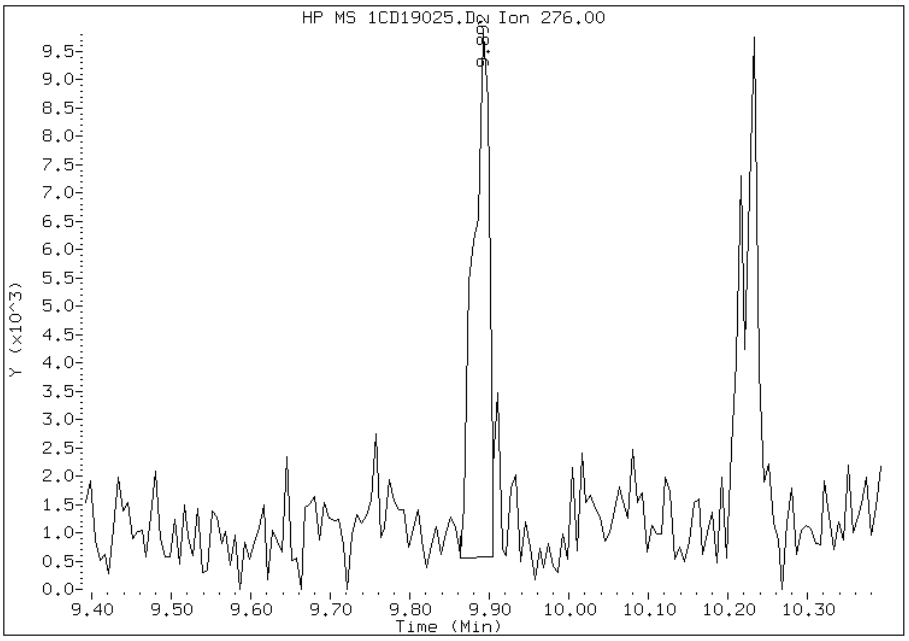
Manual Integration Results

RT: 9.89

Response: 12812

Amount: 2

Conc: 161



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0040A-CSD | Lab Sample ID: 680-89328-2

Matrix: Solid | Lab File ID: 1CD19026.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 08:50

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.08(g) | Date Analyzed: 04/19/2013 18:47

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

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

% Moisture: 20.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	36	J	50	6.2
120-12-7	Anthracene	27		10	5.2
56-55-3	Benzo[a]anthracene	160		10	4.9
50-32-8	Benzo[a]pyrene	150		13	6.5
205-99-2	Benzo[b]fluoranthene	210		15	7.6
191-24-2	Benzo[g,h,i]perylene	150		25	5.5
207-08-9	Benzo[k]fluoranthene	120		10	4.5
218-01-9	Chrysene	200		11	5.6
53-70-3	Dibenz(a,h)anthracene	85		25	5.1
206-44-0	Fluoranthene	250		25	5.0
86-73-7	Fluorene	15	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	160		25	8.9
90-12-0	1-Methylnaphthalene	63		50	5.5
91-57-6	2-Methylnaphthalene	150		50	8.9
91-20-3	Naphthalene	130		50	5.5
85-01-8	Phenanthrene	190		10	4.9
129-00-0	Pyrene	240		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19026.D
Lab Smp Id: 680-89328-A-2-A Client Smp ID: HP0040A-CSD
Inj Date : 19-APR-2013 18:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-2-a
Misc Info : 680-89328-A-2-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 26
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	15.080	Weight Extracted
M	20.362	% 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	3.657	3.657	(1.000)	268839	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	183159	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	343588	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	28706	5.73494	477.5345
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	383889	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	362610	40.0000	
	2 Naphthalene	128	3.668	3.669	(1.003)	11377	1.56554	130.3588
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	7415	1.79837	149.7456
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	3511	0.75636	62.9802
	5 Acenaphthylene	152	4.657	4.657	(0.981)	3325	0.42842	35.6732
	9 Fluorene	166	5.080	5.080	(1.071)	1098	0.18447	15.3607(Q)
	11 Phenanthrene	178	5.704	5.698	(1.003)	22741	2.26022	188.2030
	12 Anthracene	178	5.739	5.733	(1.009)	3189	0.31971	26.6213
	13 Carbazole	167	5.845	5.845	(1.028)	4337	0.46685	38.8733(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.533	6.533	(1.149)	33696	3.02313	251.7287
16 Pyrene	202	6.698	6.698	(0.879)	31142	2.85151	237.4382
17 Benzo(a)anthracene	228	7.609	7.610	(0.998)	20503	1.88870	157.2673
19 Chrysene	228	7.639	7.639	(1.002)	25941	2.41560	201.1416
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	23149	2.52757	210.4646(M)
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.964)	15236	1.47017	122.4172(MH)
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	17066	1.80266	150.1033
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	12410	1.95886	163.1097(M)
25 Dibenzo(a,h)anthracene	278	9.897	9.892	(1.128)	5332	1.02126	85.0380(QM)
26 Benzo(g,h,i)perylene	276	10.221	10.209	(1.165)	16383	1.84627	153.7345(M)

QC Flag Legend

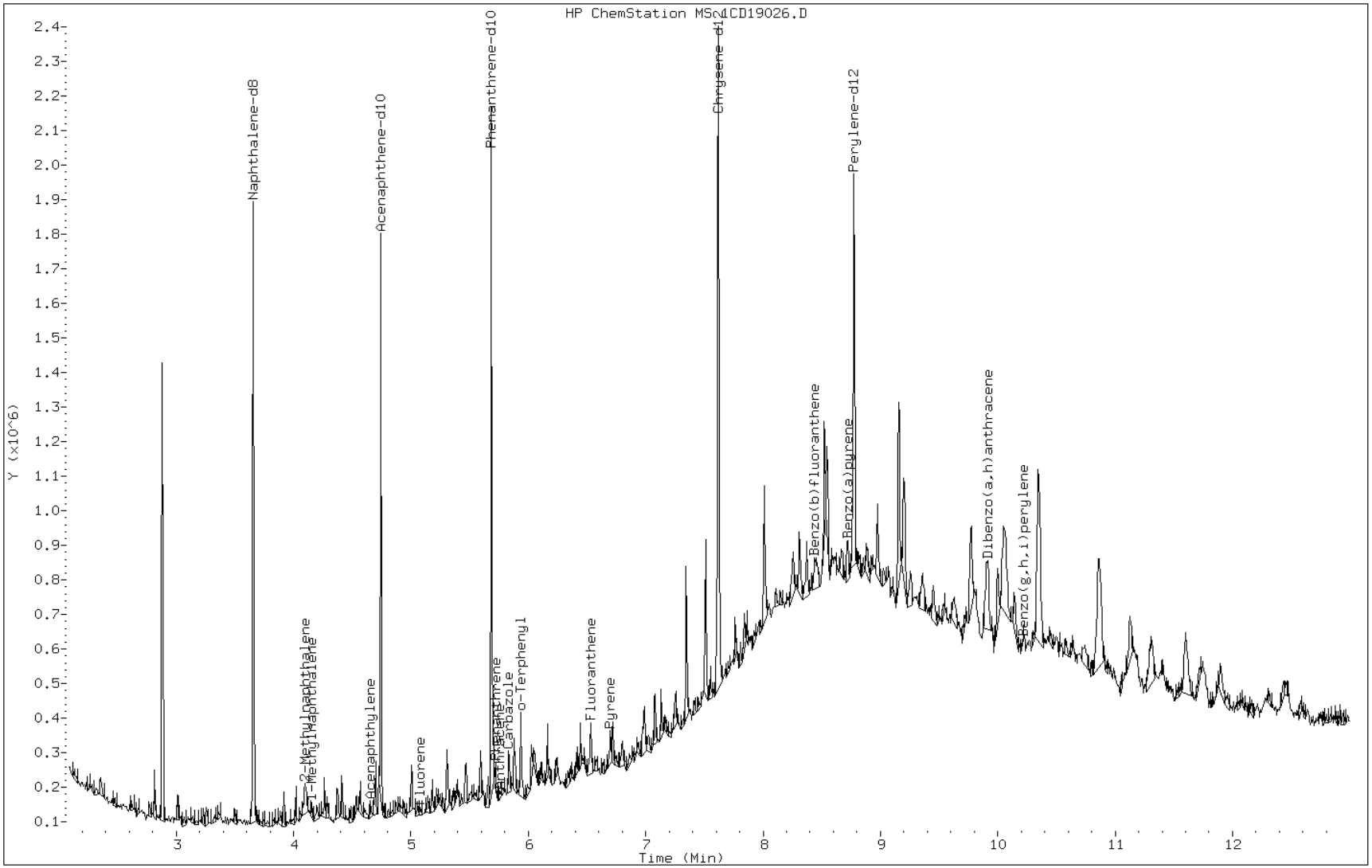
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC



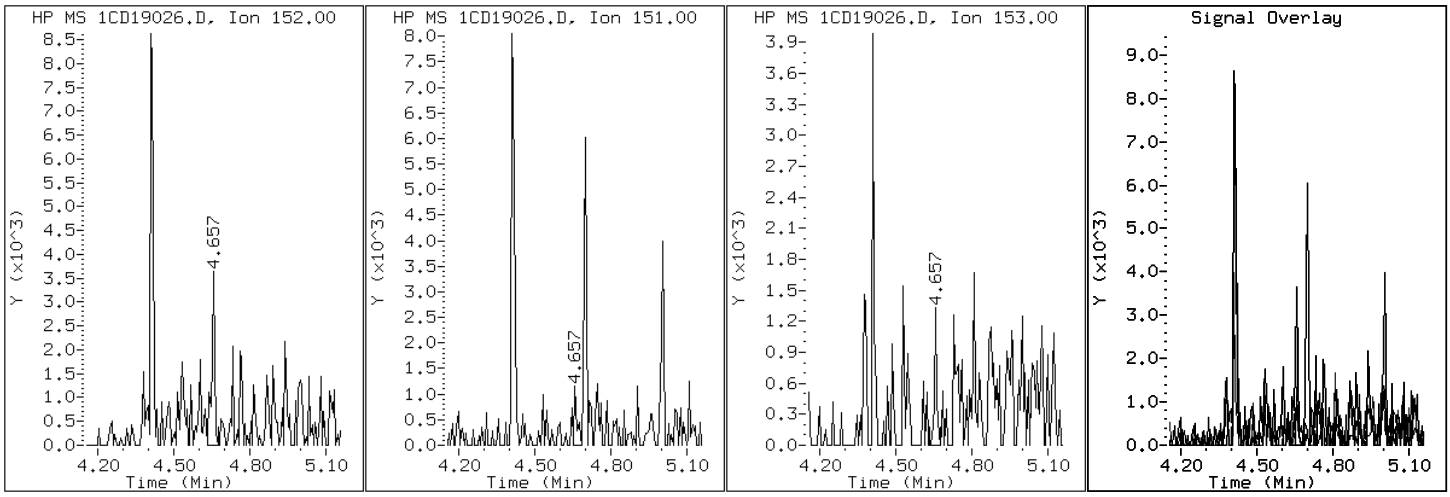
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

5 Acenaphthylene



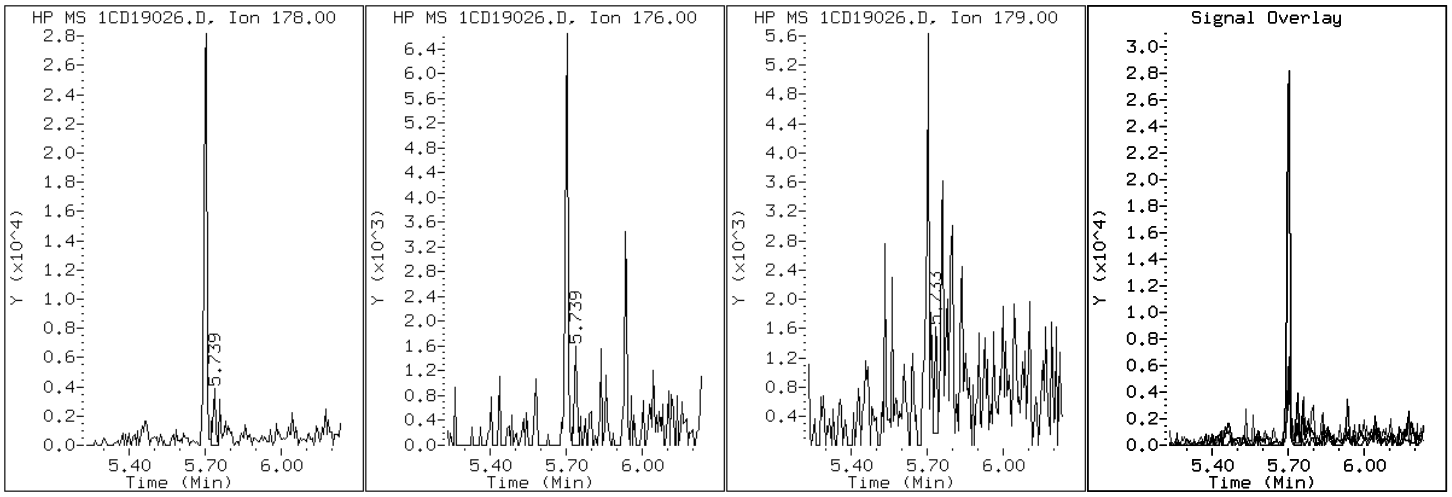
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

12 Anthracene



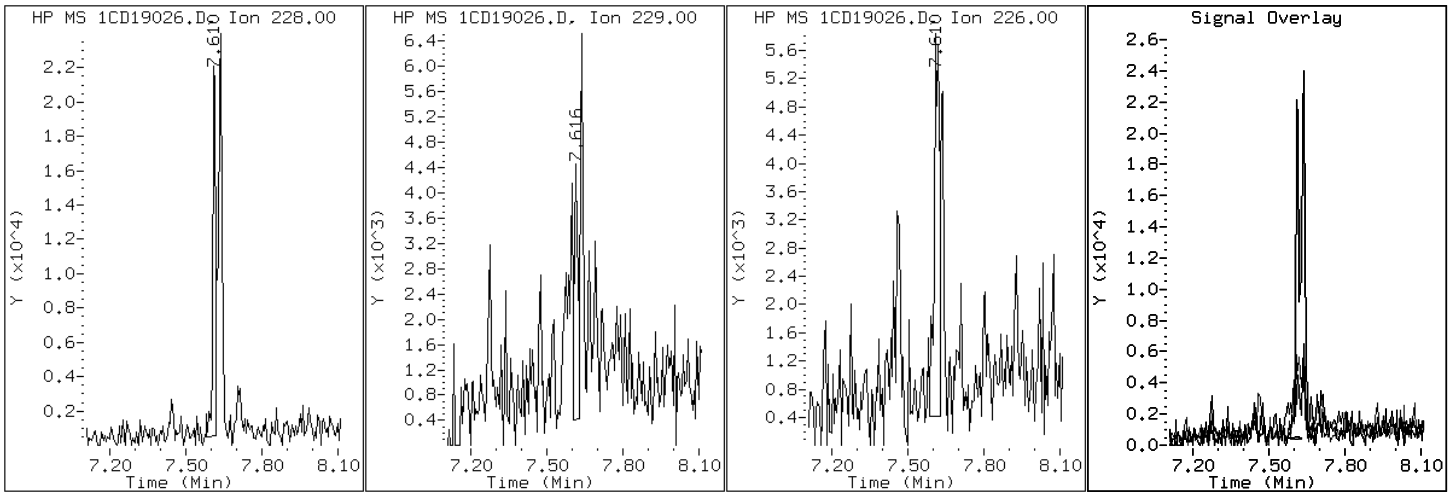
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

17 Benzo(a)anthracene



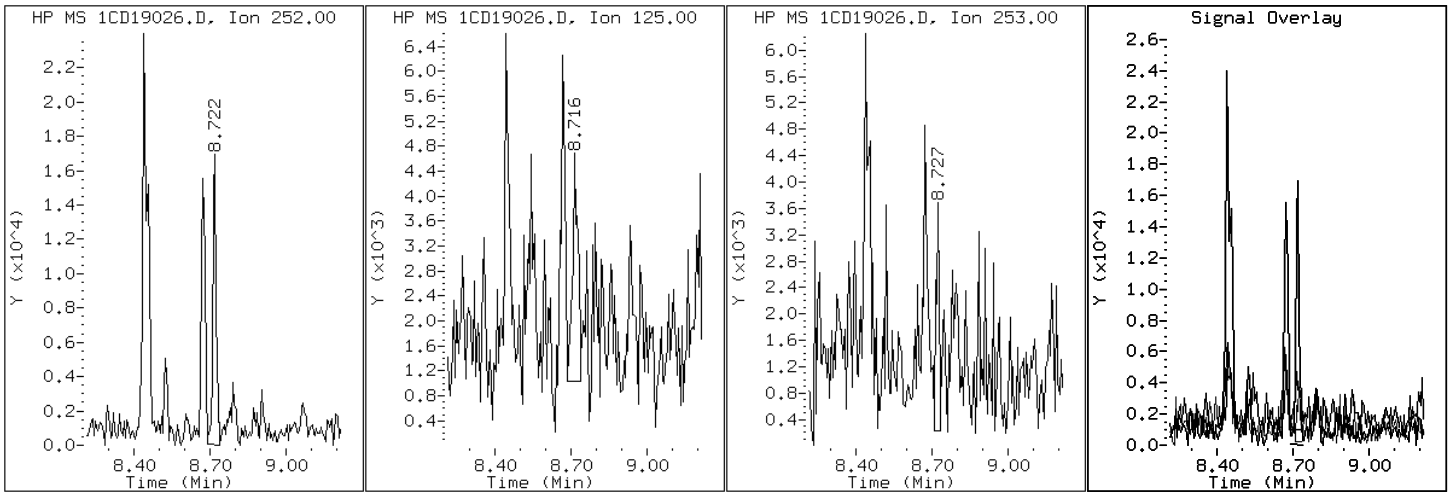
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

22 Benzo(a)pyrene



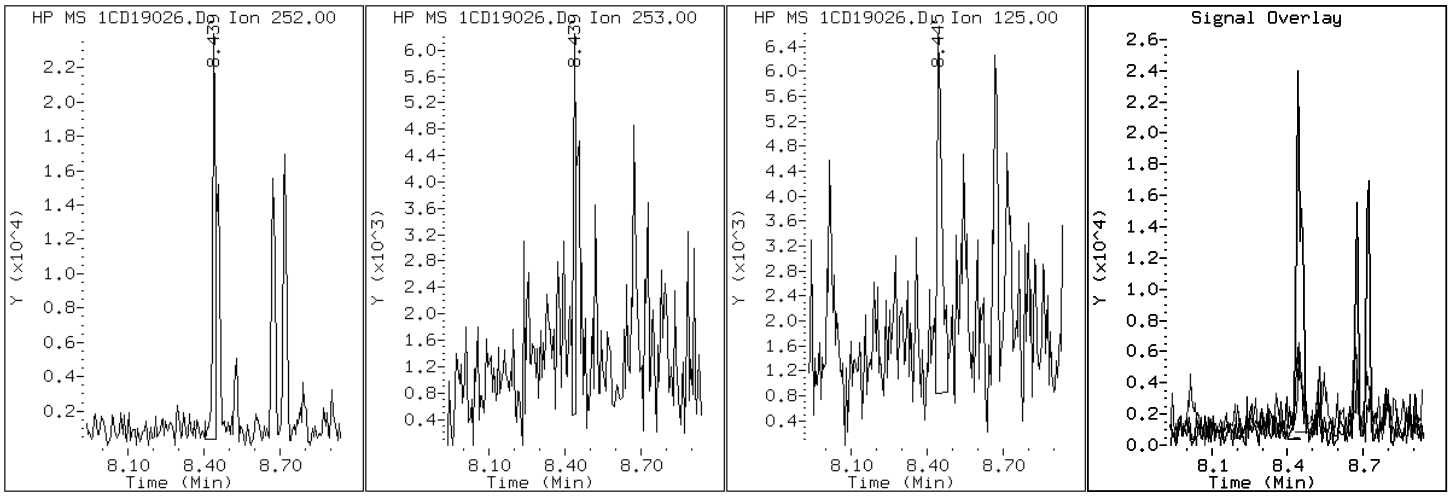
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



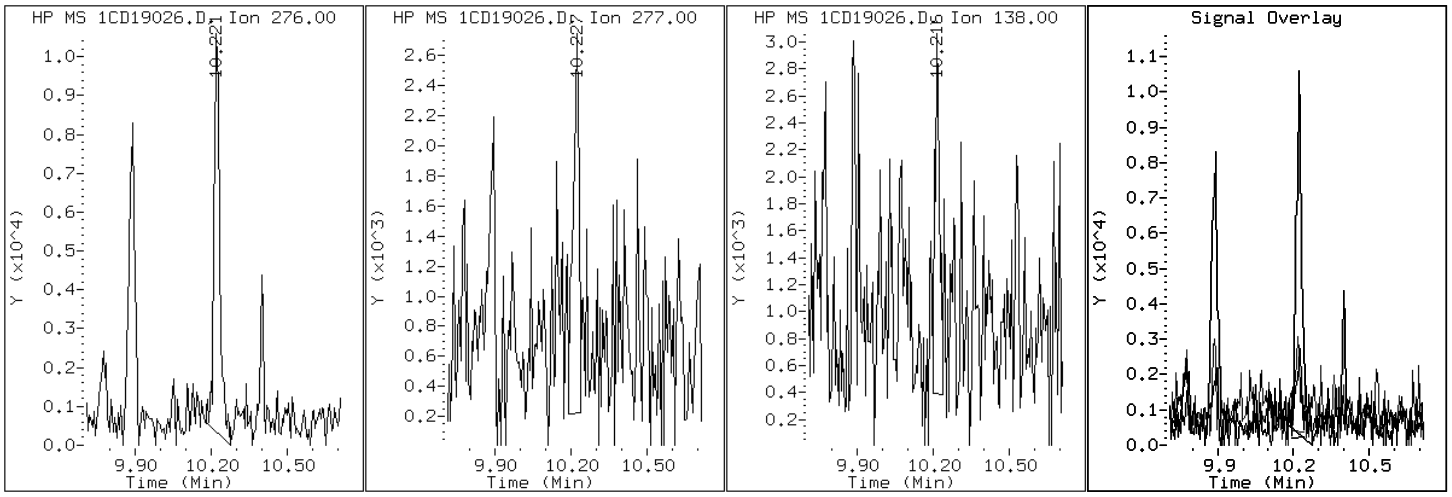
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



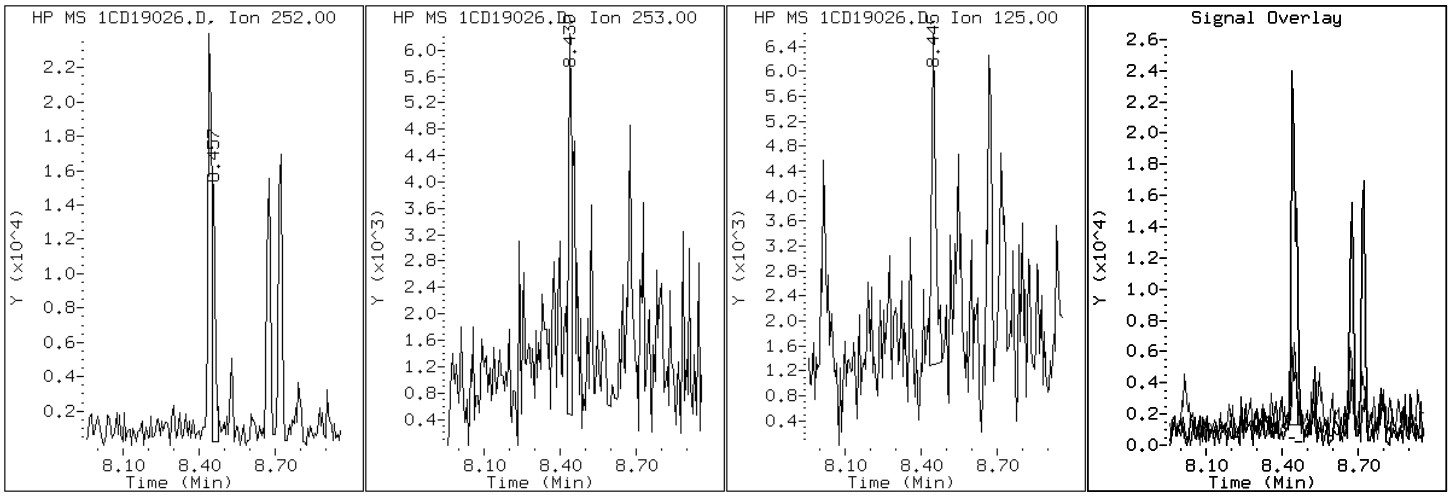
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



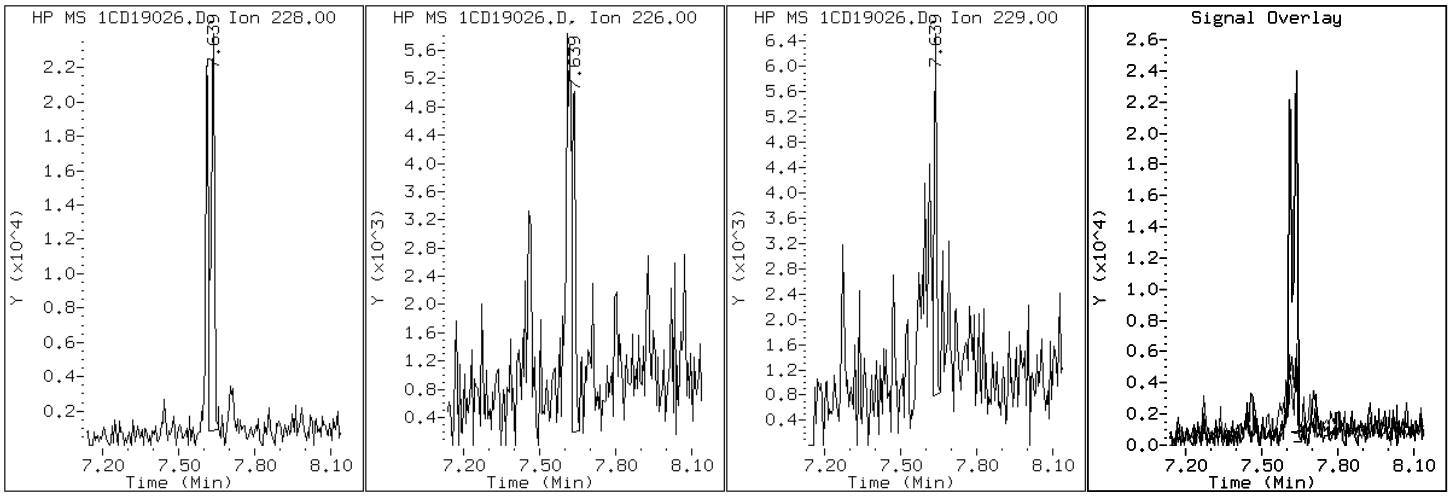
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

19 Chrysene



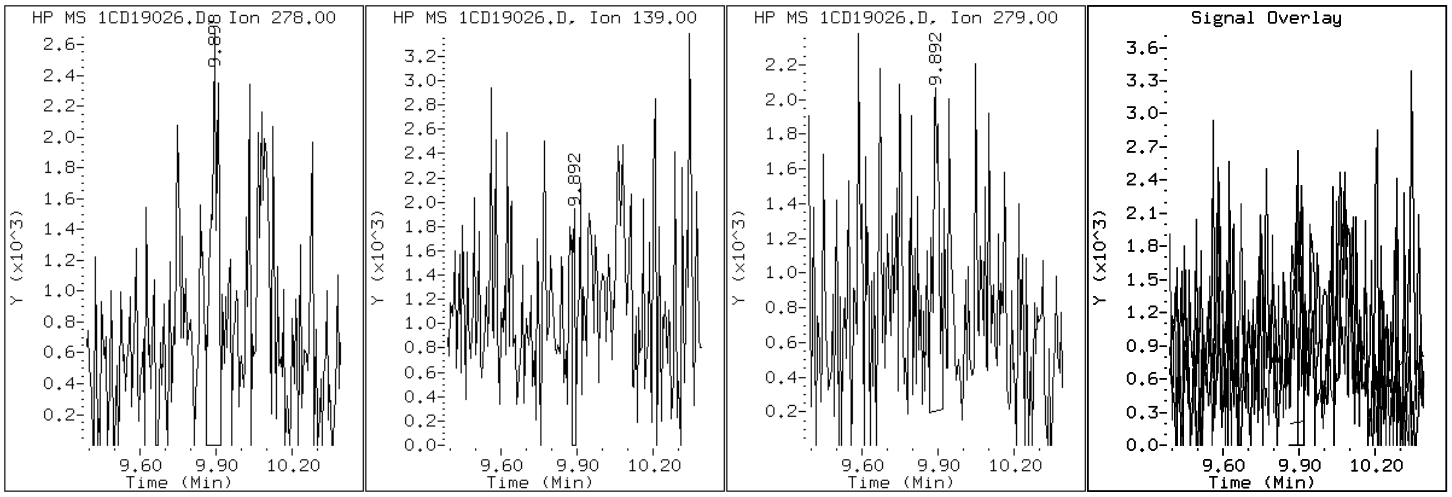
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



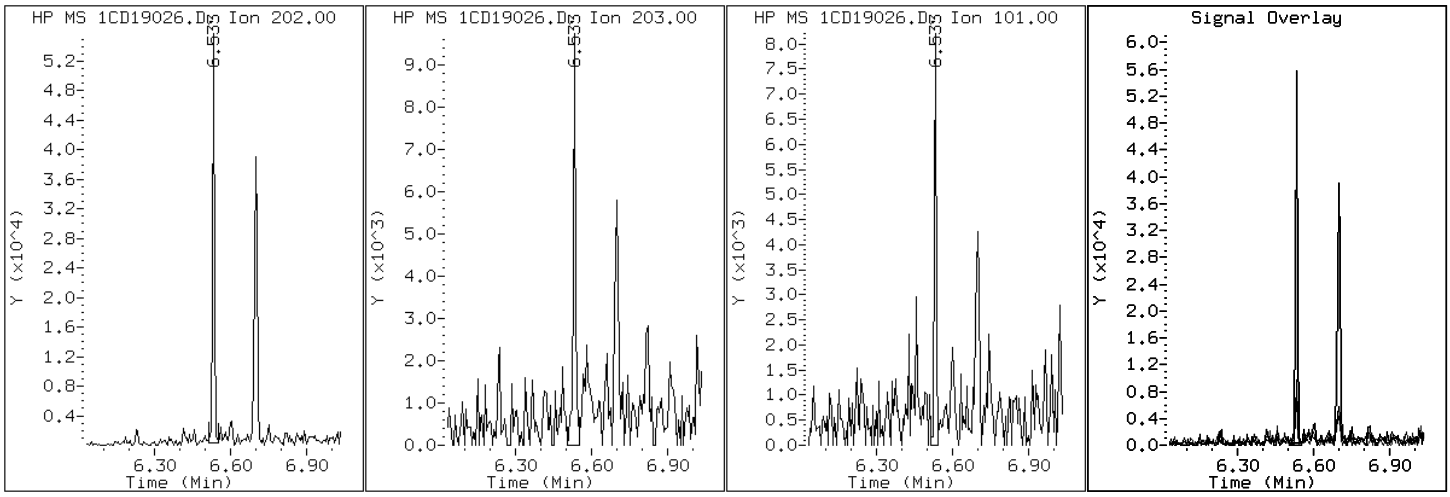
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

15 Fluoranthene



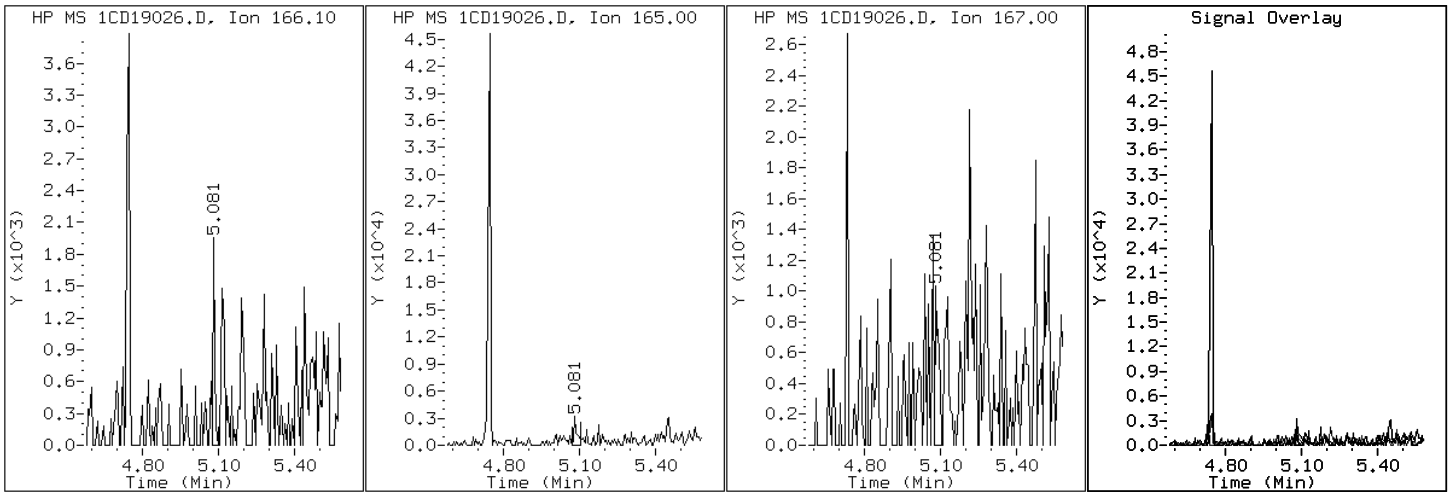
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

9 Fluorene



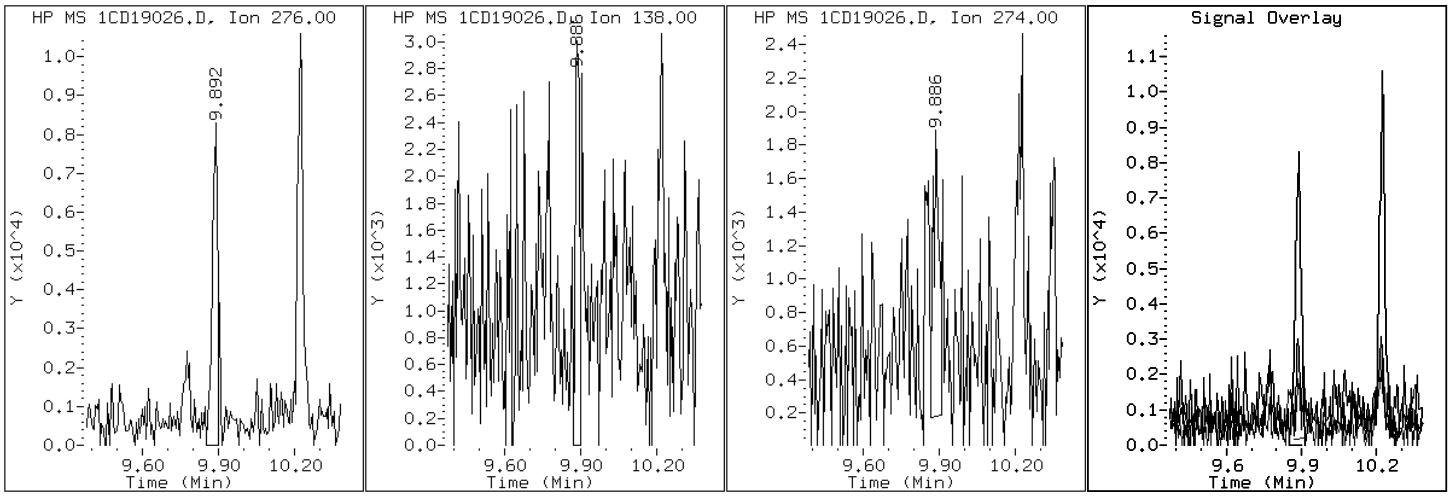
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

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



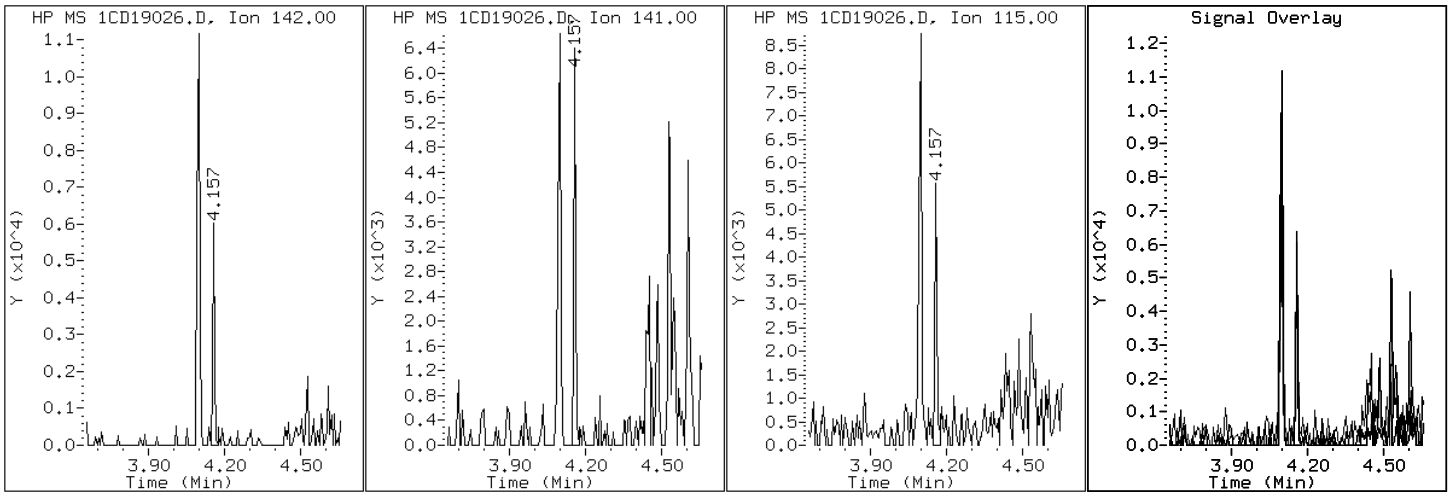
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

4 1-Methylnaphthalene



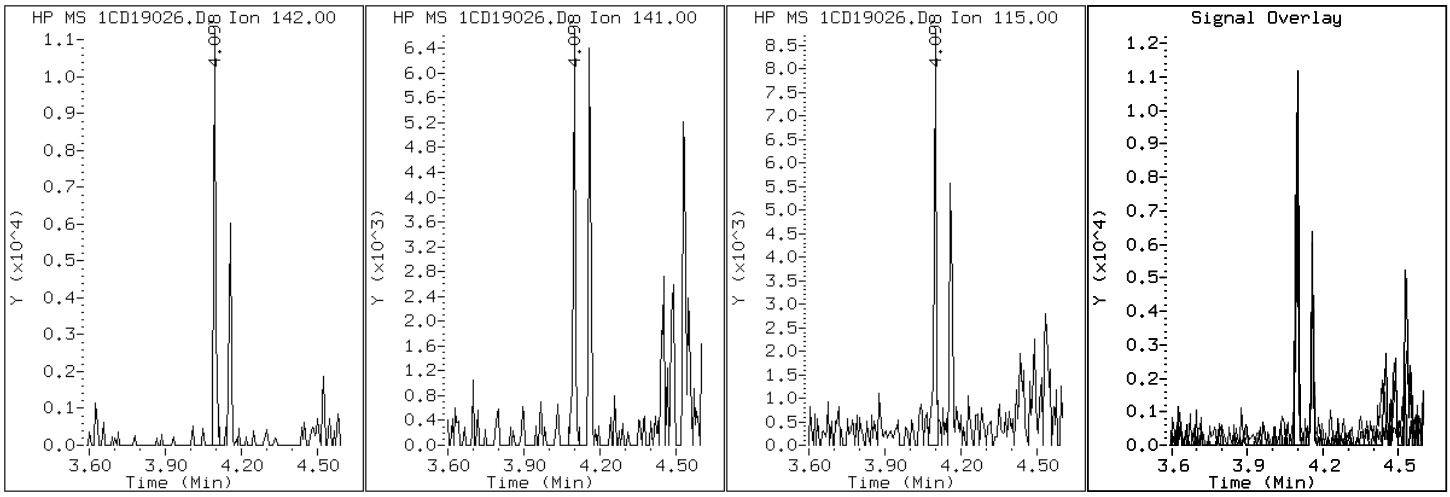
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

3 2-Methylnaphthalene



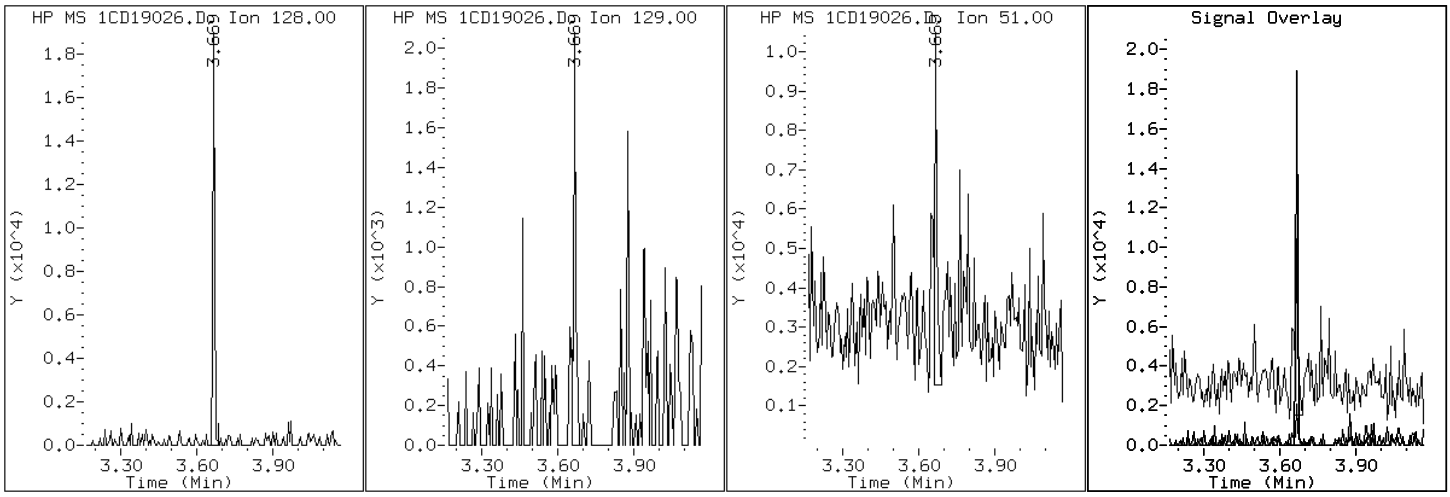
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

2 Naphthalene



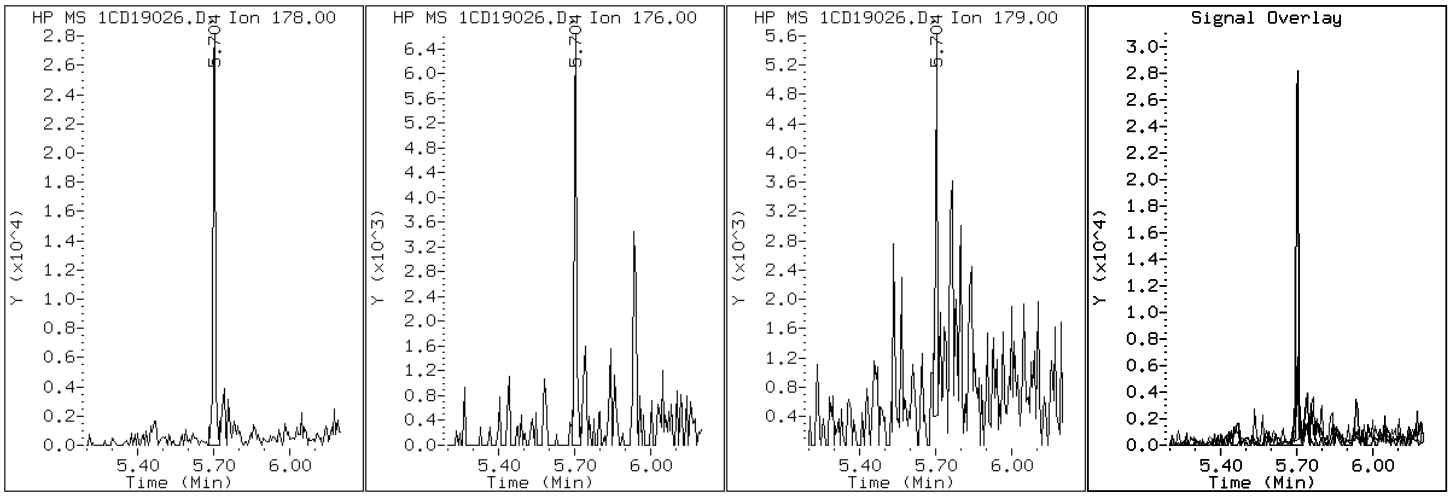
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

11 Phenanthrene



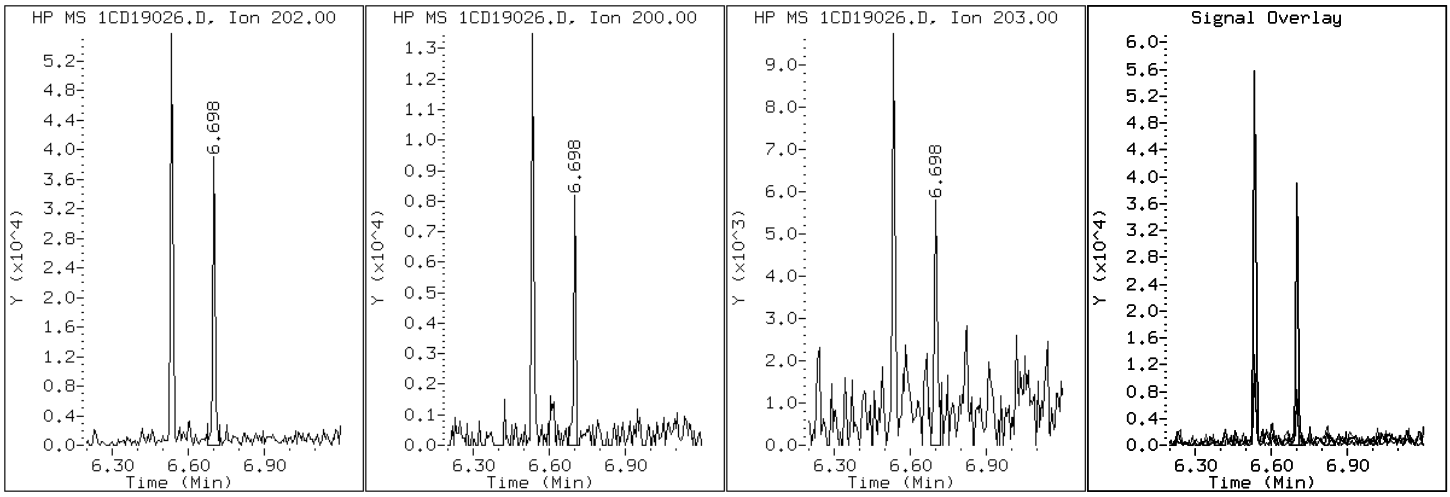
Data File: 1CD19026.D

Date: 19-APR-2013 18:47

Client ID: HP0040A-CSD Instrument: BSMC5973.i

Sample Info: 680-89328-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19026.D
Inj. Date and Time: 19-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: HP0040A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

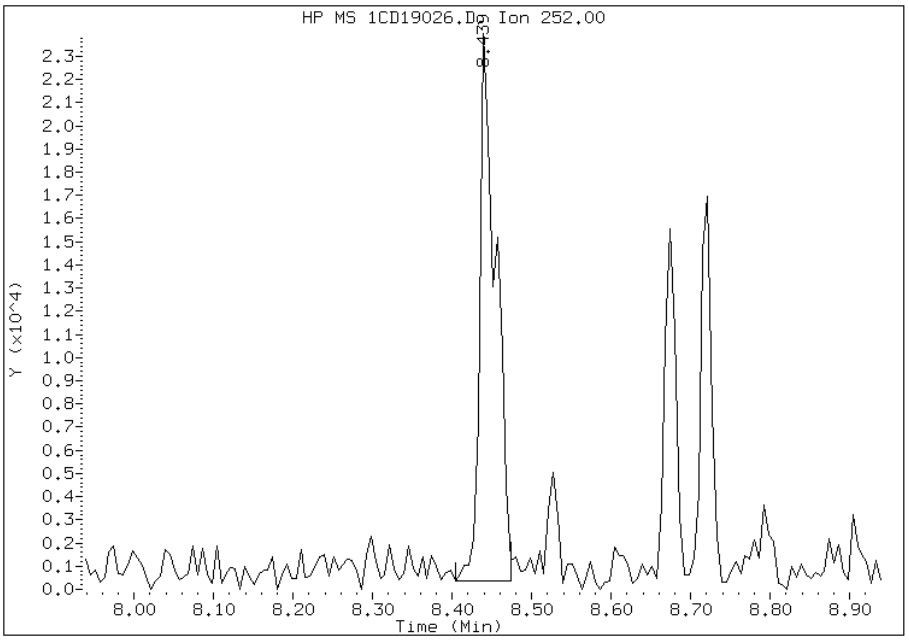
Processing Integration Results

RT: 8.44

Response: 33599

Amount: 4

Conc: 305



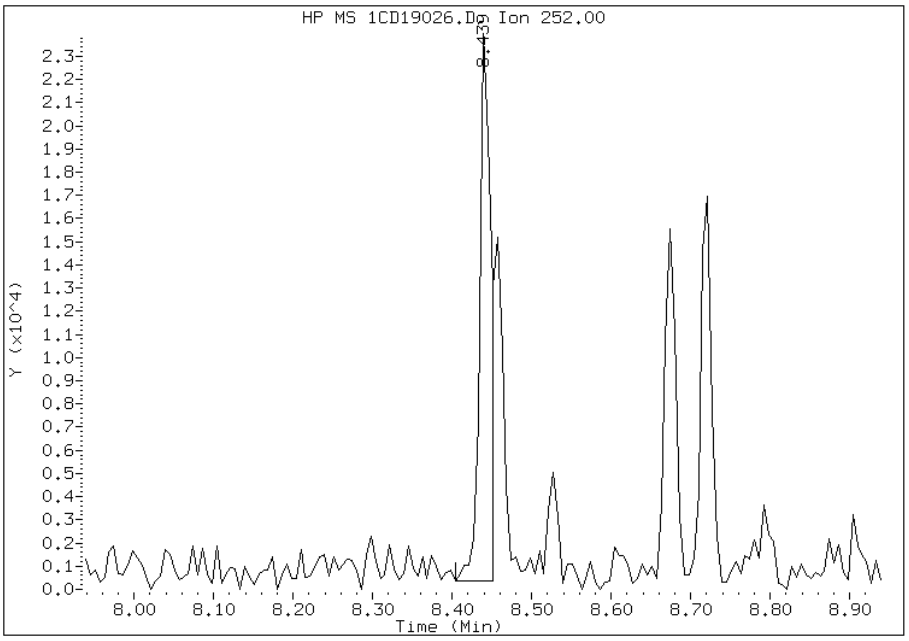
Manual Integration Results

RT: 8.44

Response: 23149

Amount: 3

Conc: 210



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19026.D
Inj. Date and Time: 19-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: HP0040A-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/22/2013

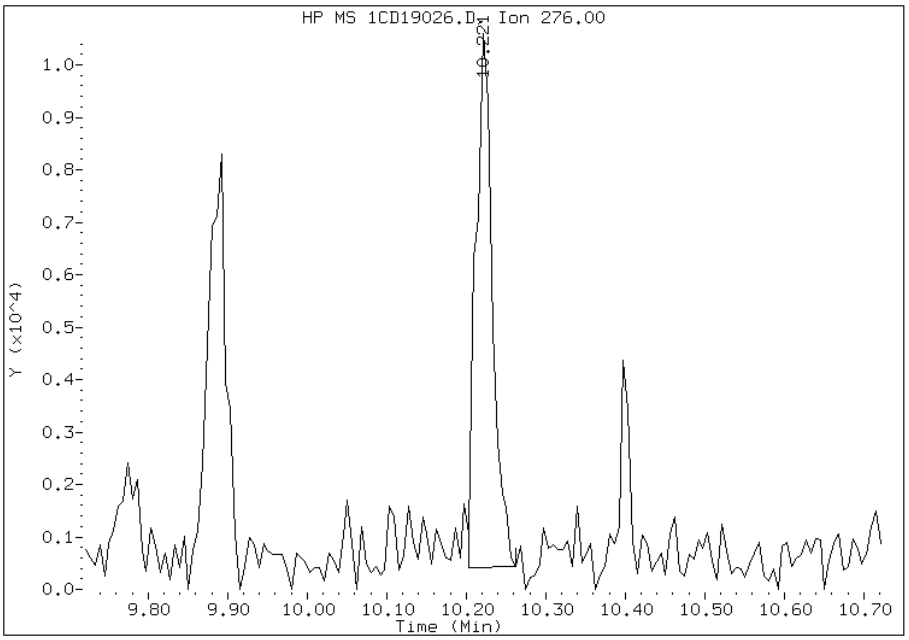
Processing Integration Results

RT: 10.22

Response: 14767

Amount: 2

Conc: 139



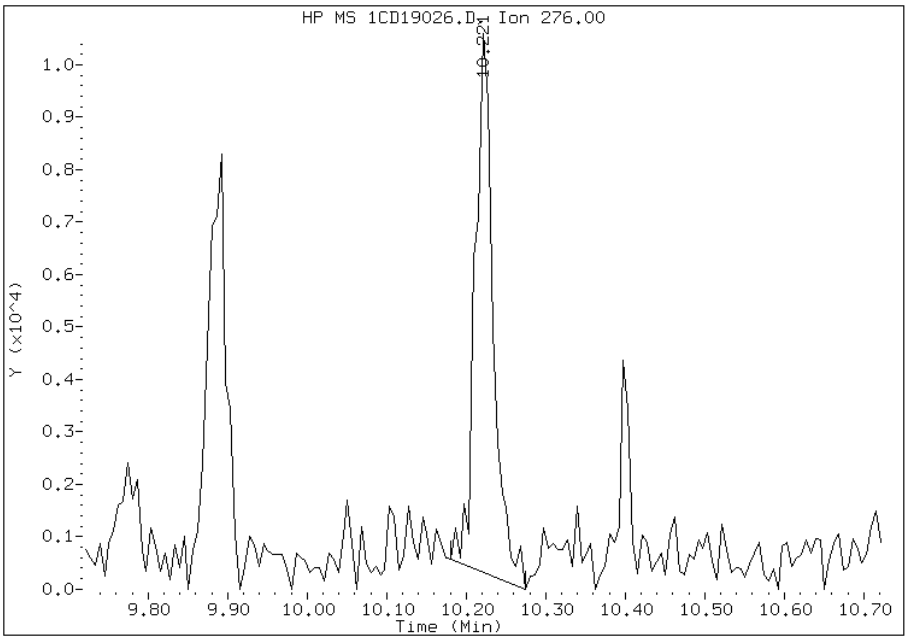
Manual Integration Results

RT: 10.22

Response: 16383

Amount: 2

Conc: 154



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19026.D
Inj. Date and Time: 19-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: HP0040A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

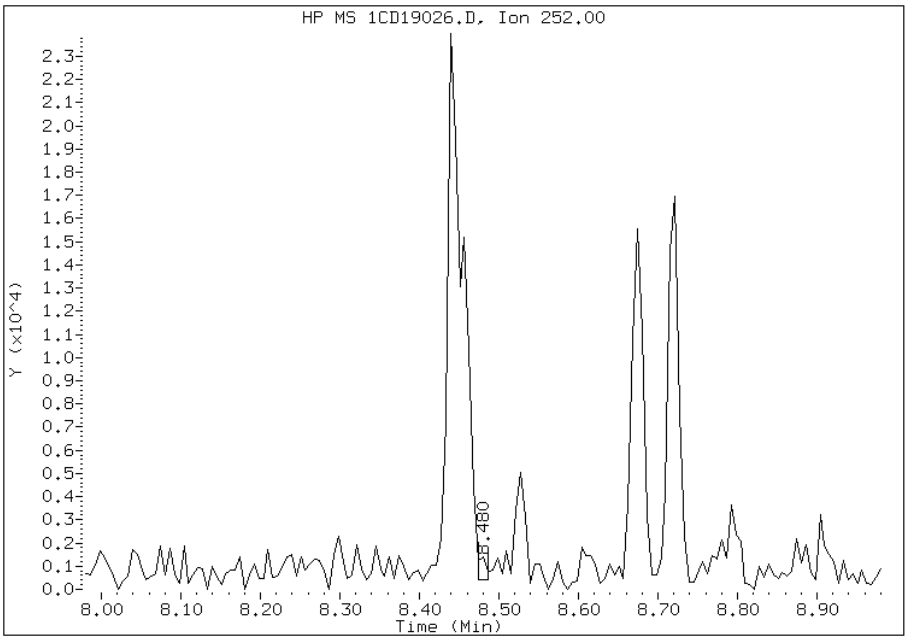
Processing Integration Results

RT: 8.48

Response: 756

Amount: 0

Conc: 6



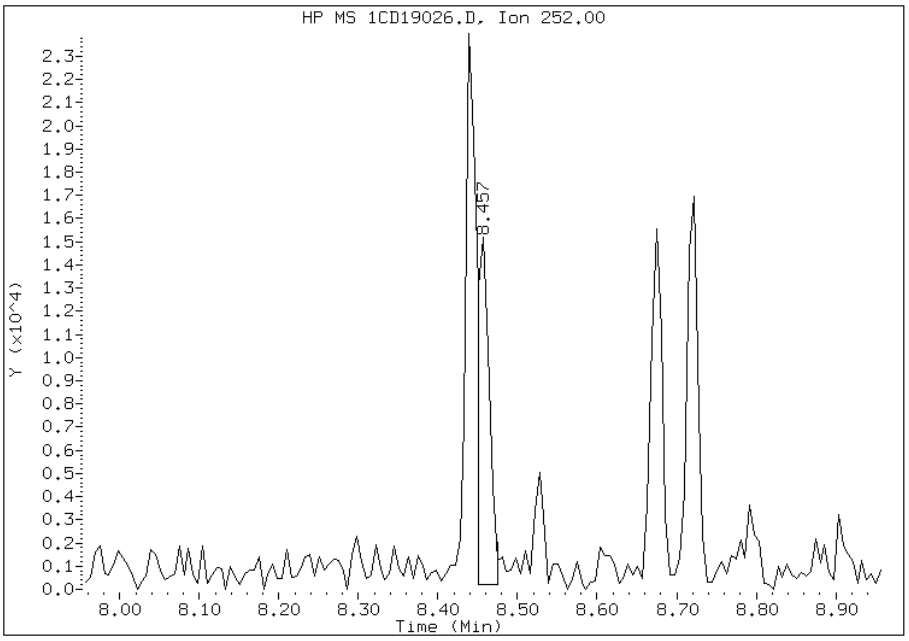
Manual Integration Results

RT: 8.46

Response: 15236

Amount: 1

Conc: 122



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19026.D
Inj. Date and Time: 19-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: HP0040A-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/22/2013

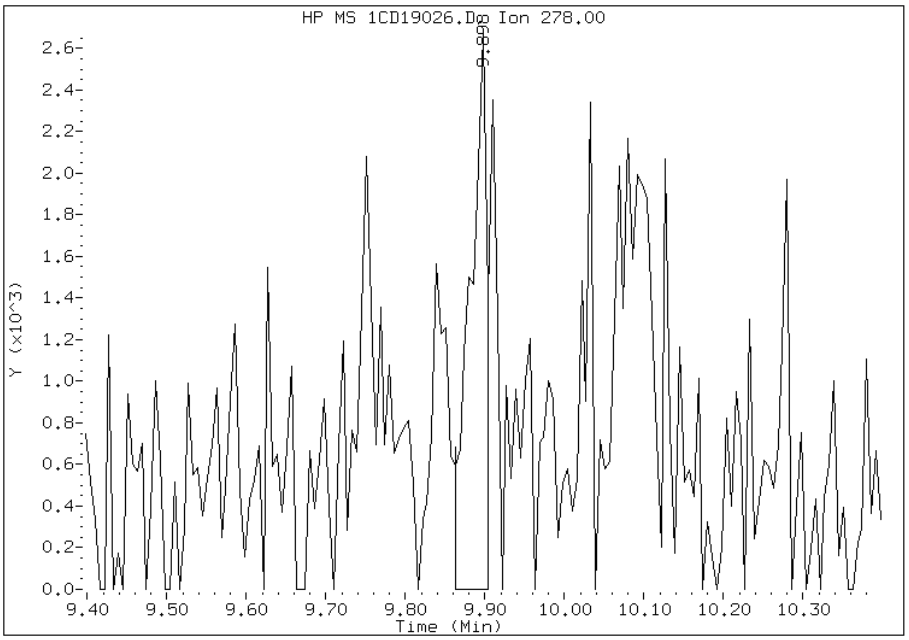
Processing Integration Results

RT: 9.90

Response: 4049

Amount: 1

Conc: 74



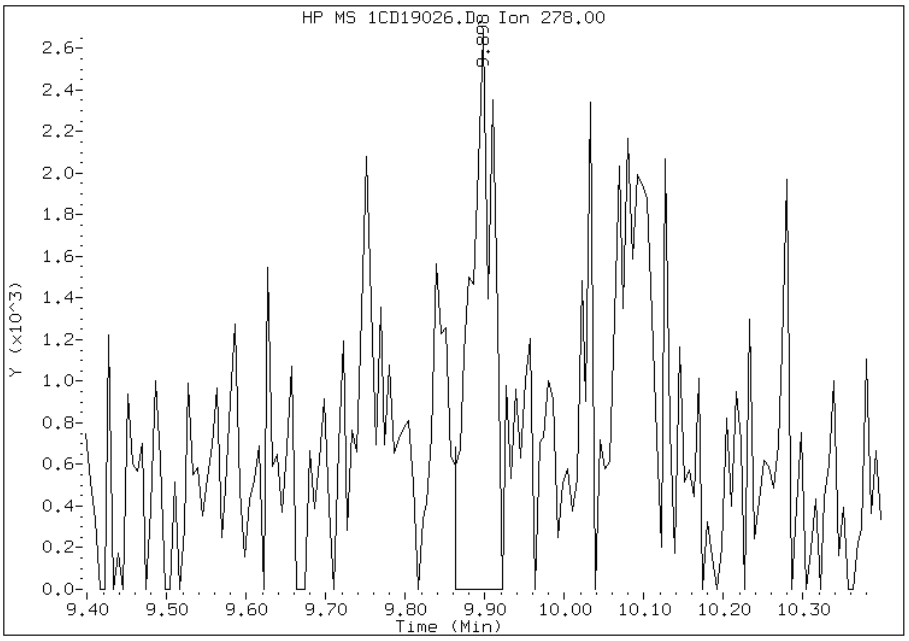
Manual Integration Results

RT: 9.90

Response: 5332

Amount: 1

Conc: 85



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19026.D
Inj. Date and Time: 19-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: HP0040A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

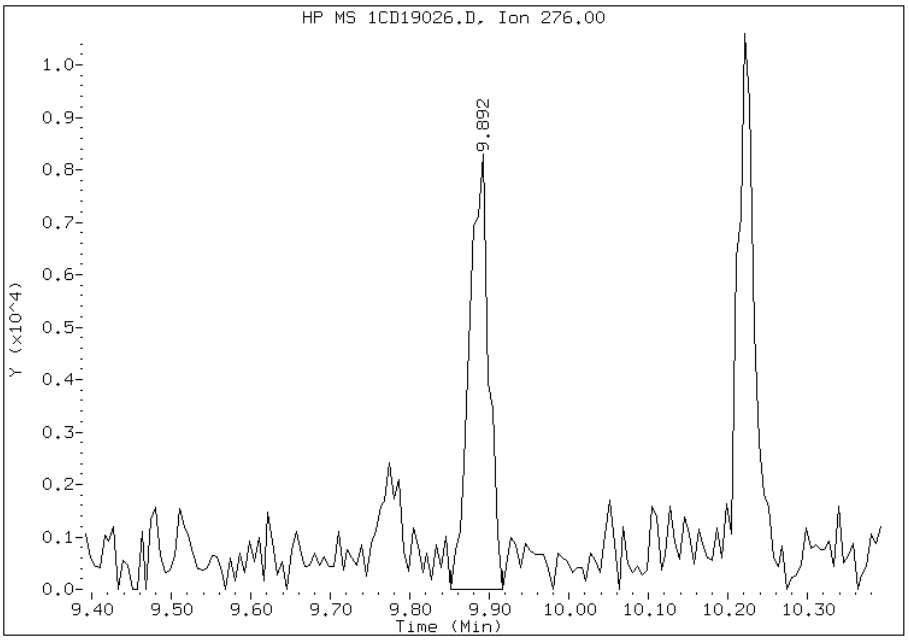
Processing Integration Results

RT: 9.89

Response: 14001

Amount: 2

Conc: 177



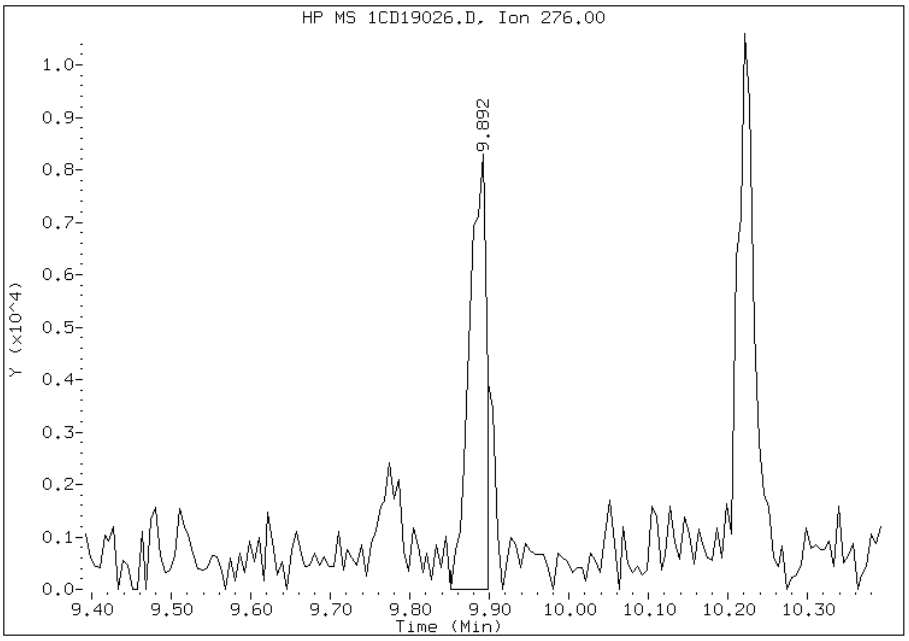
Manual Integration Results

RT: 9.89

Response: 12410

Amount: 2

Conc: 163



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0040B-CS | Lab Sample ID: 680-89328-3

Matrix: Solid | Lab File ID: 1CD19027.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:00

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 14.93(g) | Date Analyzed: 04/19/2013 19:05

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

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

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

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	26	J	46	5.8
120-12-7	Anthracene	13		9.7	4.9
56-55-3	Benzo[a]anthracene	96		9.3	4.5
50-32-8	Benzo[a]pyrene	90		12	6.0
205-99-2	Benzo[b]fluoranthene	160		14	7.1
191-24-2	Benzo[g,h,i]perylene	90		23	5.1
207-08-9	Benzo[k]fluoranthene	75		9.3	4.2
218-01-9	Chrysene	110		10	5.2
53-70-3	Dibenz(a,h)anthracene	81		23	4.7
206-44-0	Fluoranthene	100		23	4.6
86-73-7	Fluorene	15	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	100		23	8.2
90-12-0	1-Methylnaphthalene	39	J	46	5.1
91-57-6	2-Methylnaphthalene	76		46	8.2
91-20-3	Naphthalene	68		46	5.1
85-01-8	Phenanthrene	97		9.3	4.5
129-00-0	Pyrene	130		23	4.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19027.D
Lab Smp Id: 680-89328-A-3-A Client Smp ID: HP0040B-CS
Inj Date : 19-APR-2013 19:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-3-a
Misc Info : 680-89328-A-3-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 27
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	14.930	Weight Extracted
M	13.160	% 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	3.657	3.657	(1.000)	279253	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.739	(1.000)	194000	40.0000	
* 10 Phenanthrene-d10	188	5.686	5.686	(1.000)	345775	40.0000	
$ 14 o-Terphenyl	230	5.939	5.933	(1.044)	29478	5.83785	450.2724
* 18 Chrysene-d12	240	7.621	7.615	(1.000)	387931	40.0000	
* 23 Perylene-d12	264	8.774	8.768	(1.000)	351745	40.0000	
2 Naphthalene	128	3.669	3.669	(1.003)	6657	0.88188	68.0192
3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	3615	0.98877	76.2637
4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	2420	0.50189	38.7105
5 Acenaphthylene	152	4.657	4.657	(0.981)	2783	0.33854	26.1118
9 Fluorene	166	5.092	5.080	(1.073)	1236	0.19605	15.1216
11 Phenanthrene	178	5.704	5.698	(1.003)	12700	1.25747	96.9881
12 Anthracene	178	5.733	5.733	(1.008)	1722	0.17154	13.2311(Q)
13 Carbazole	167	5.845	5.845	(1.028)	1955	0.20911	16.1286(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.533	6.533	(1.149)	14803	1.31969	101.7875
16 Pyrene	202	6.698	6.698	(0.879)	18089	1.63906	126.4200
17 Benzo(a)anthracene	228	7.609	7.610	(0.998)	13660	1.24522	96.0437
19 Chrysene	228	7.639	7.639	(1.002)	16125	1.48590	114.6073
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	18420	2.07335	159.9169(M)
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.964)	9739	0.96877	74.7212(QM)
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	10769	1.17265	90.4465
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	6410	1.34199	103.5071(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.892	(1.129)	5403	1.04688	80.7458(M)
26 Benzo(g,h,i)perylene	276	10.221	10.209	(1.165)	10018	1.16384	89.7670

QC Flag Legend

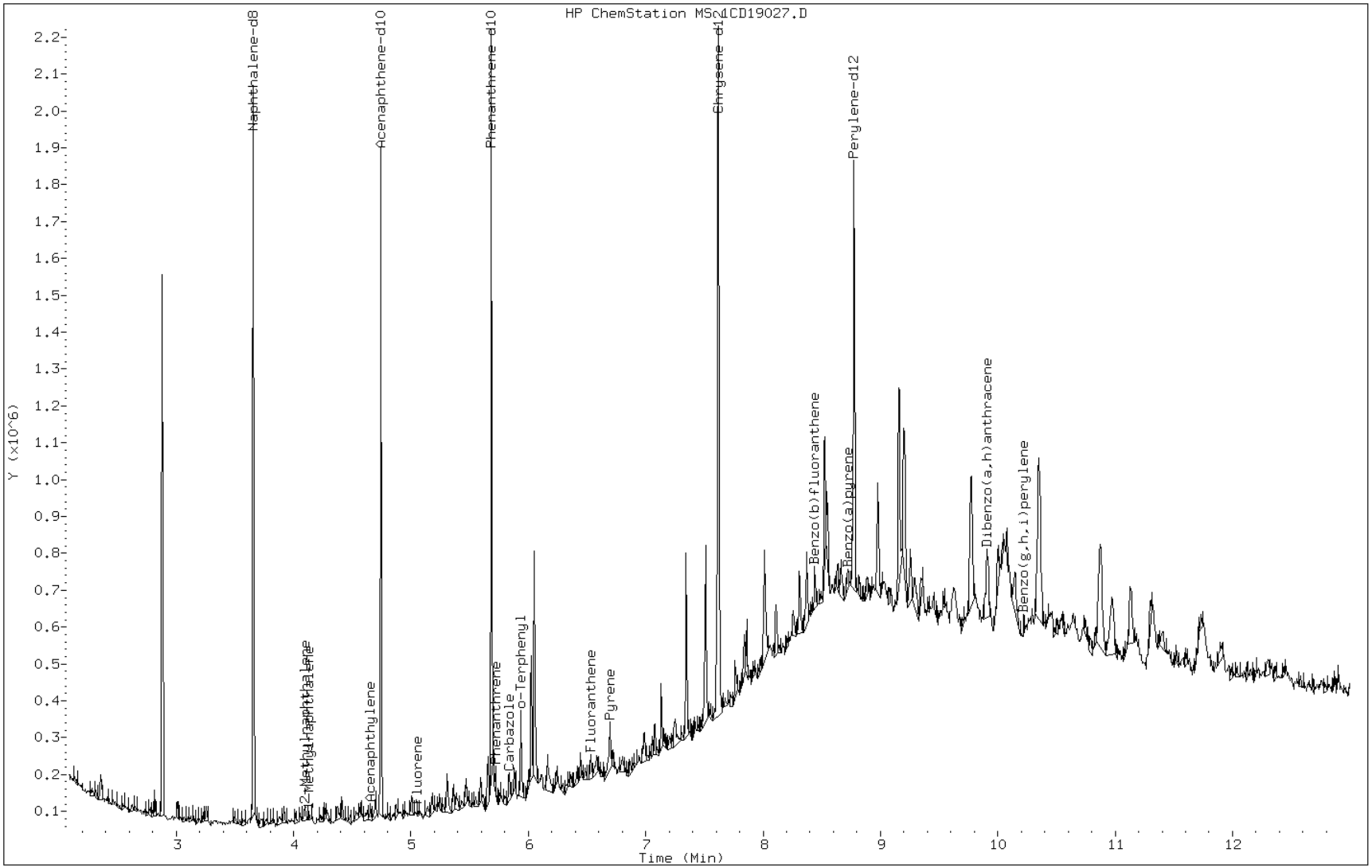
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC



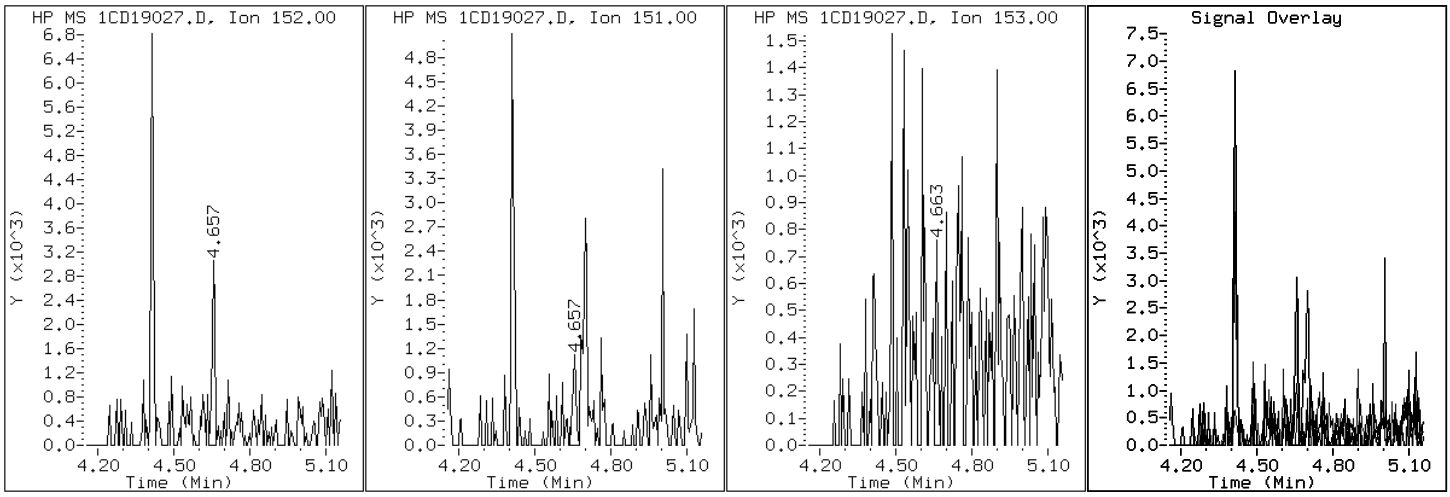
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

5 Acenaphthylene



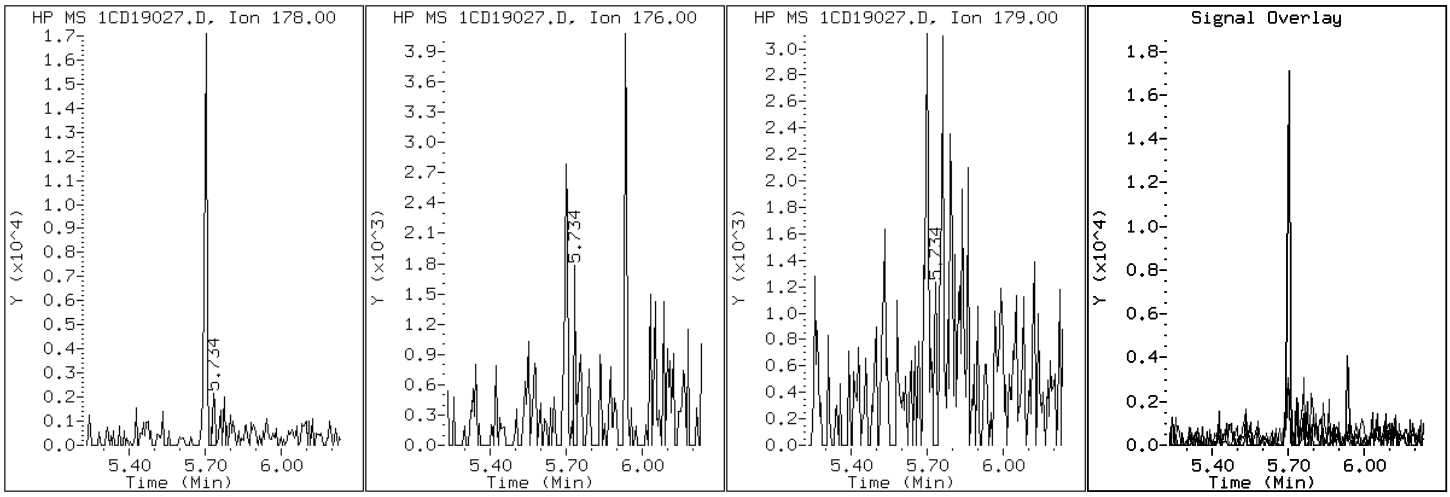
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

12 Anthracene



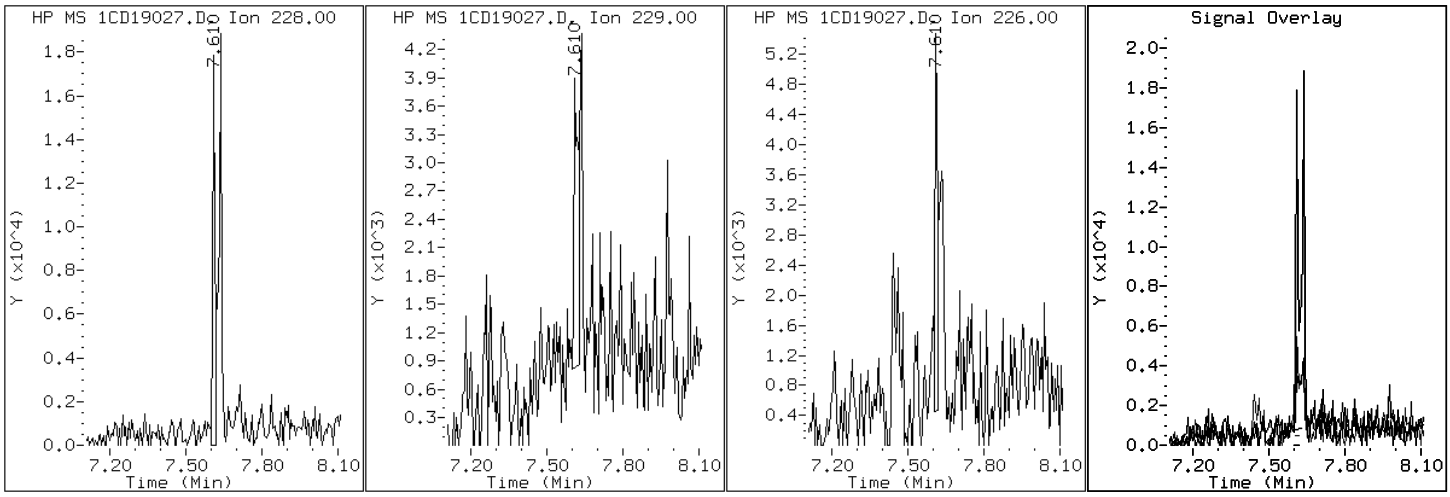
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

17 Benzo(a)anthracene



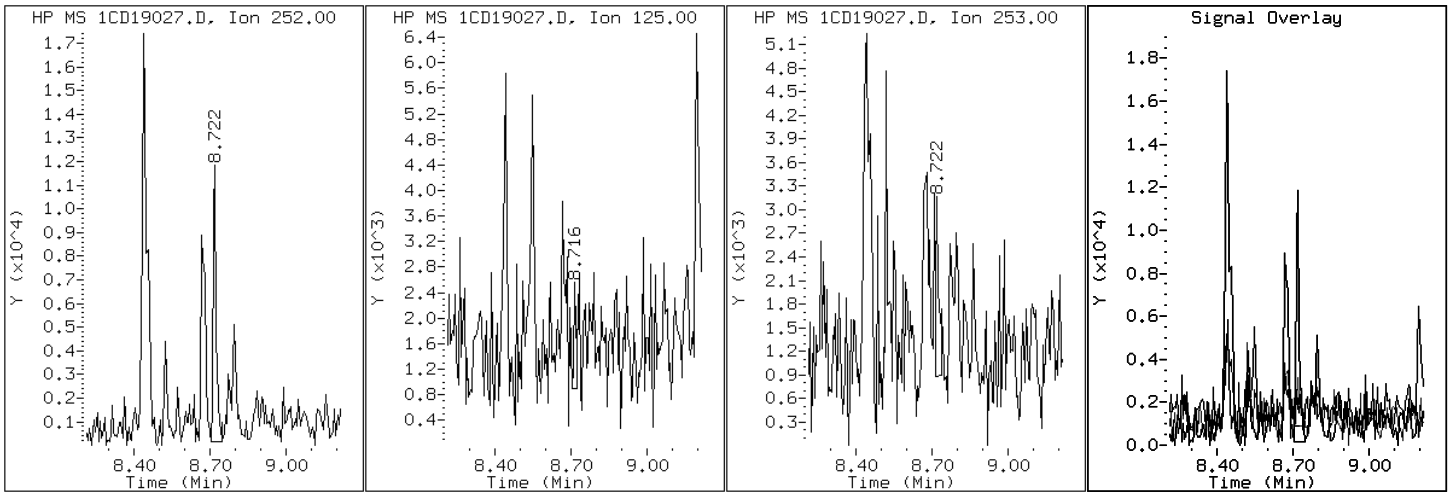
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

22 Benzo(a)pyrene



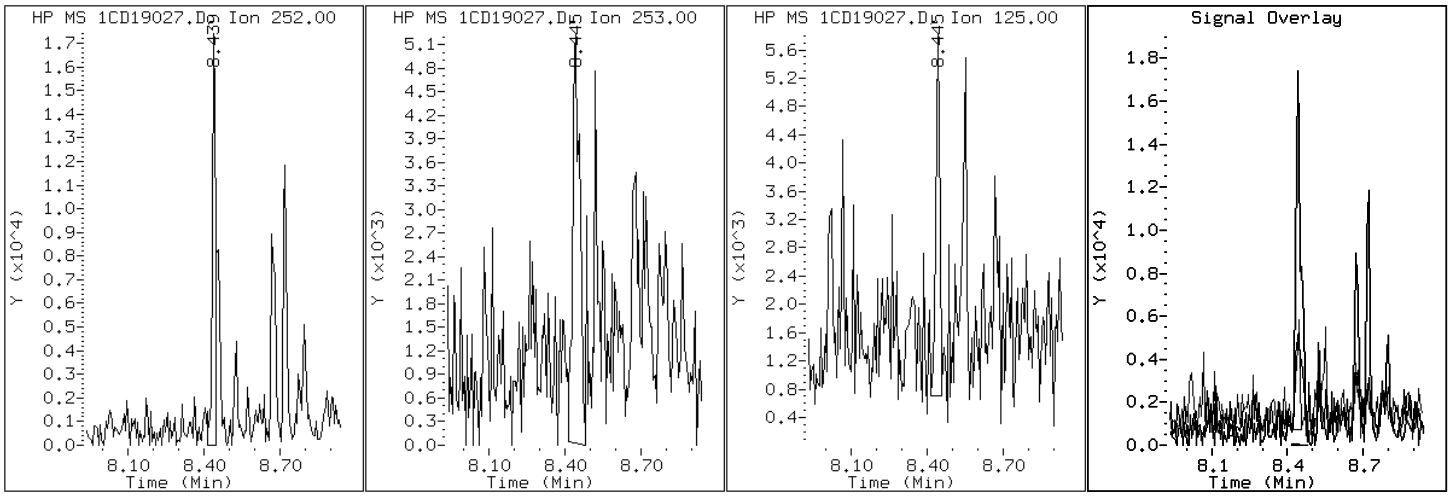
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



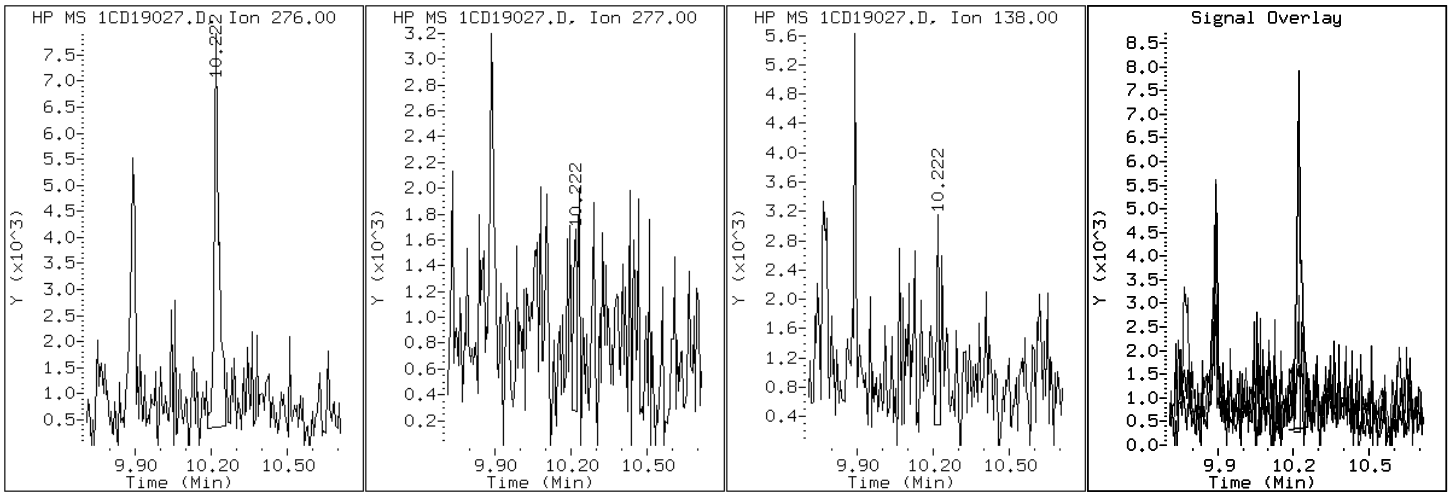
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



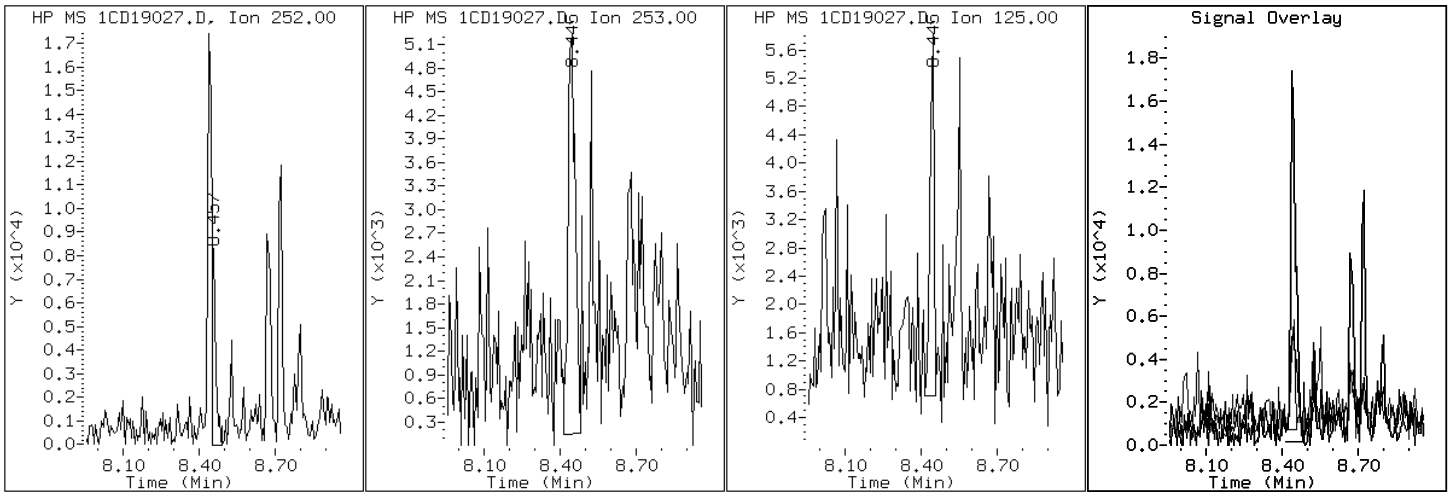
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



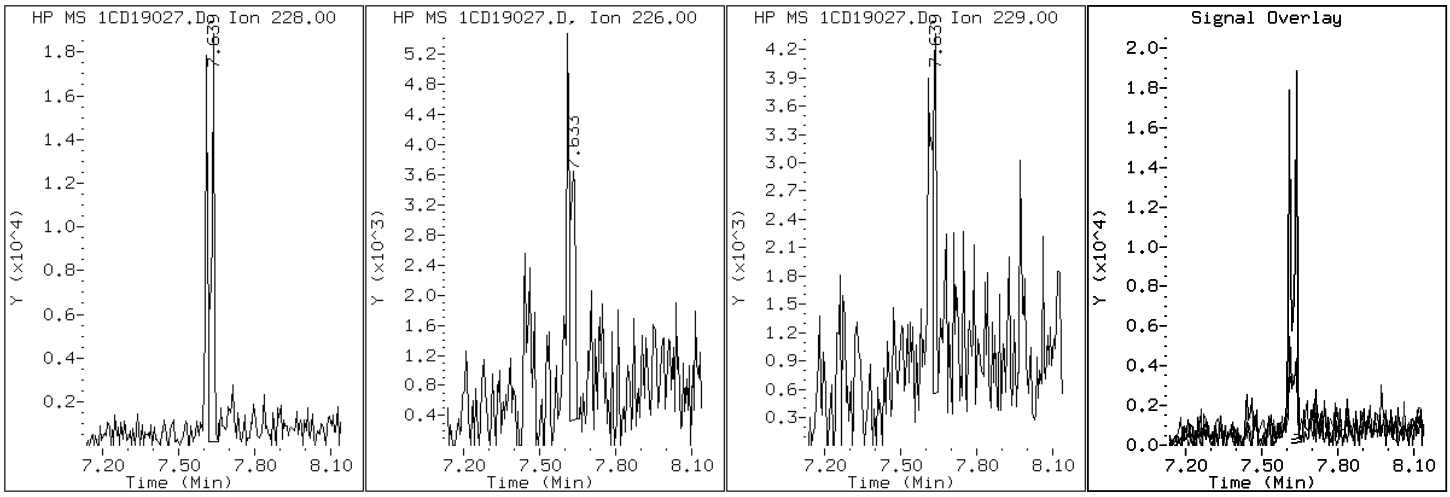
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

19 Chrysene



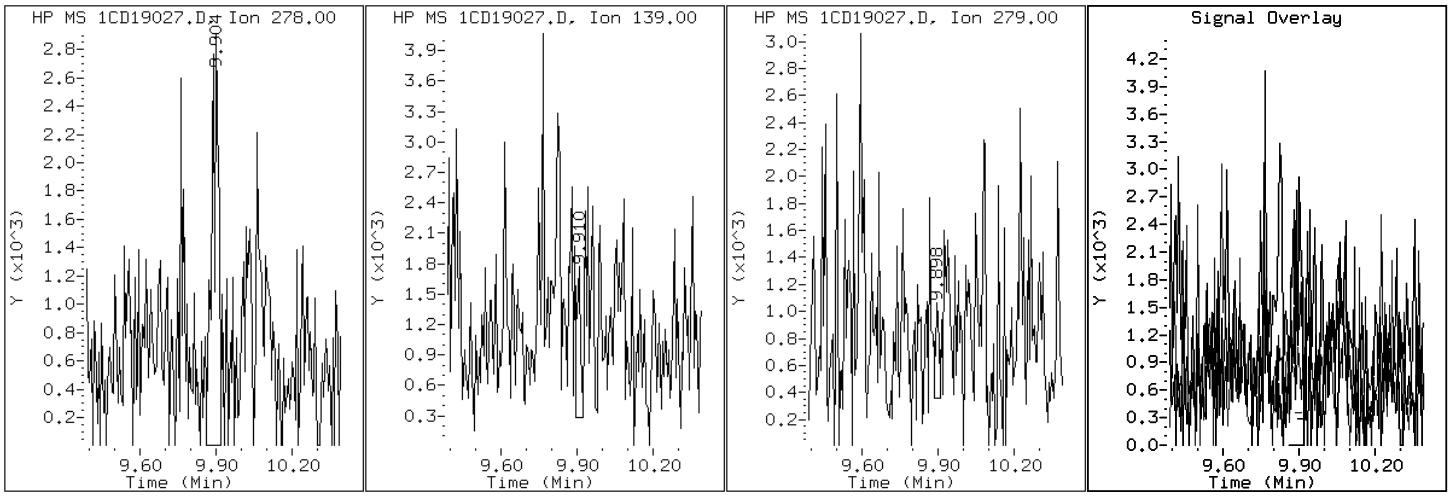
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



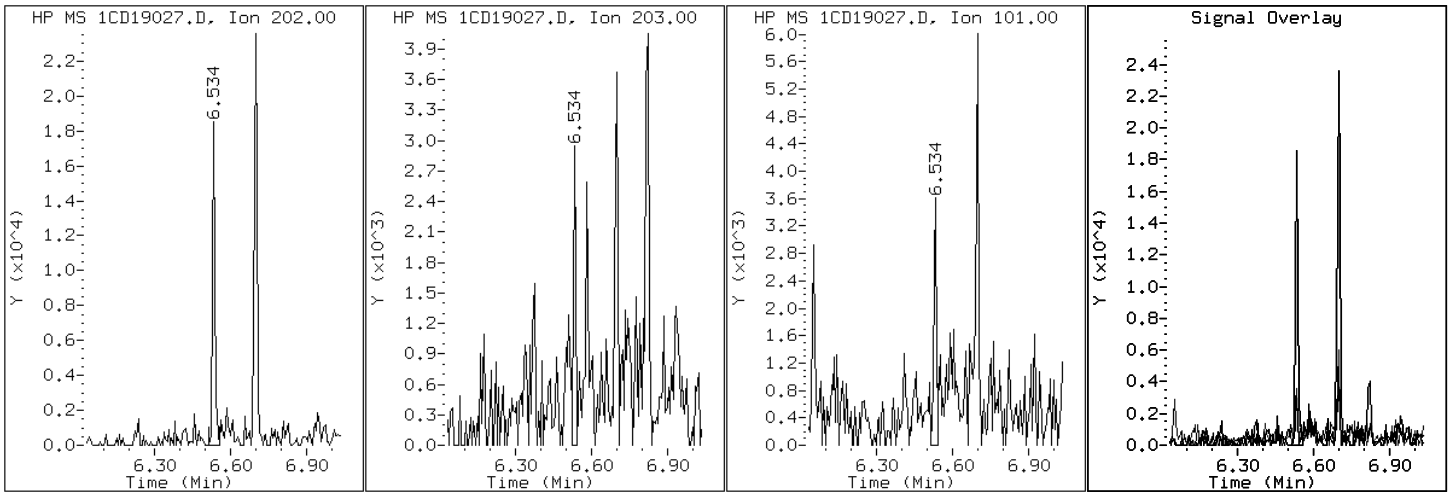
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

15 Fluoranthene



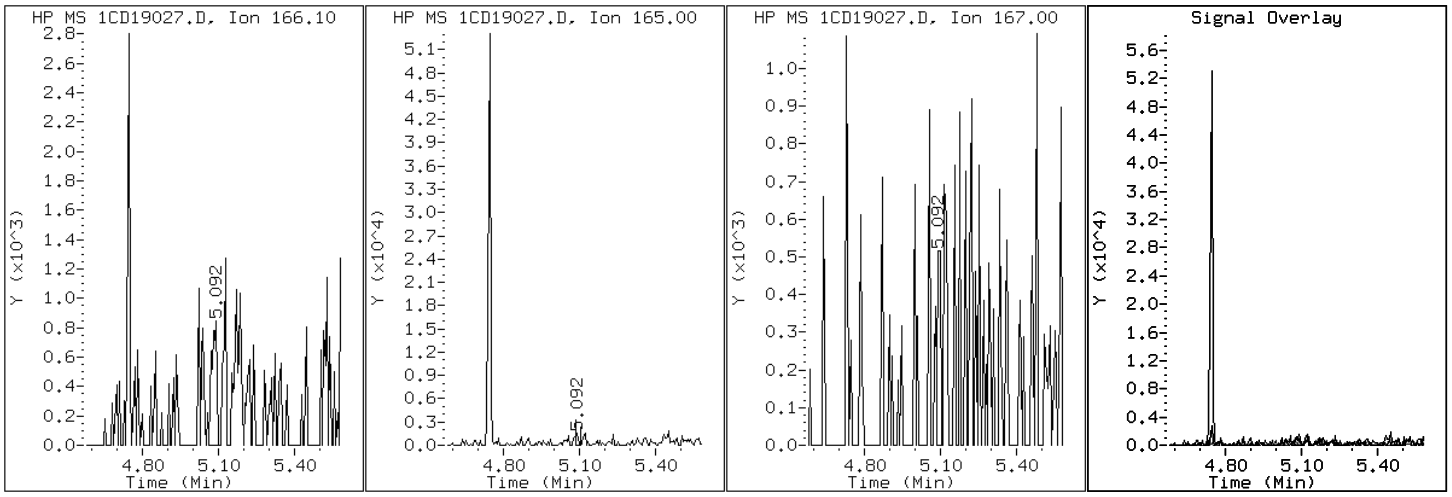
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

9 Fluorene



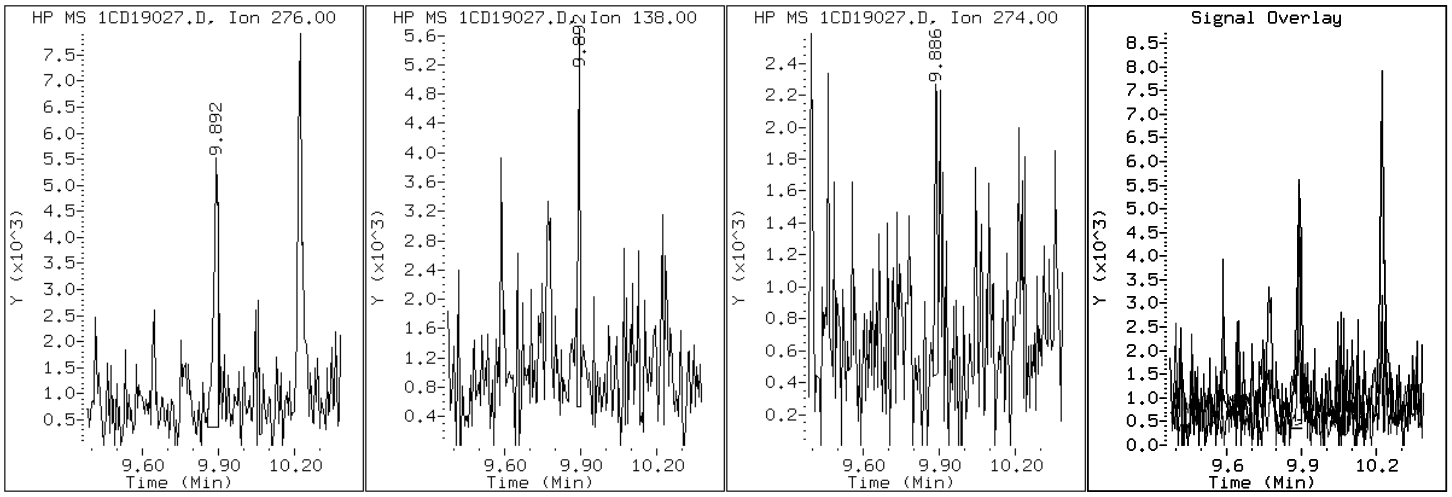
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

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



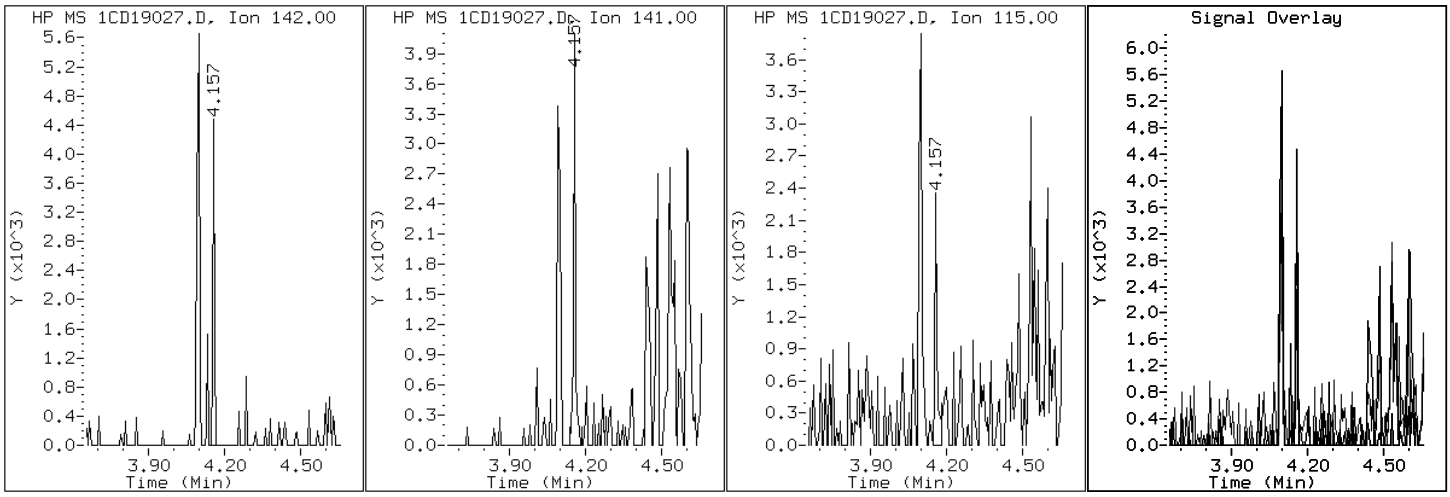
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

4 1-Methylnaphthalene



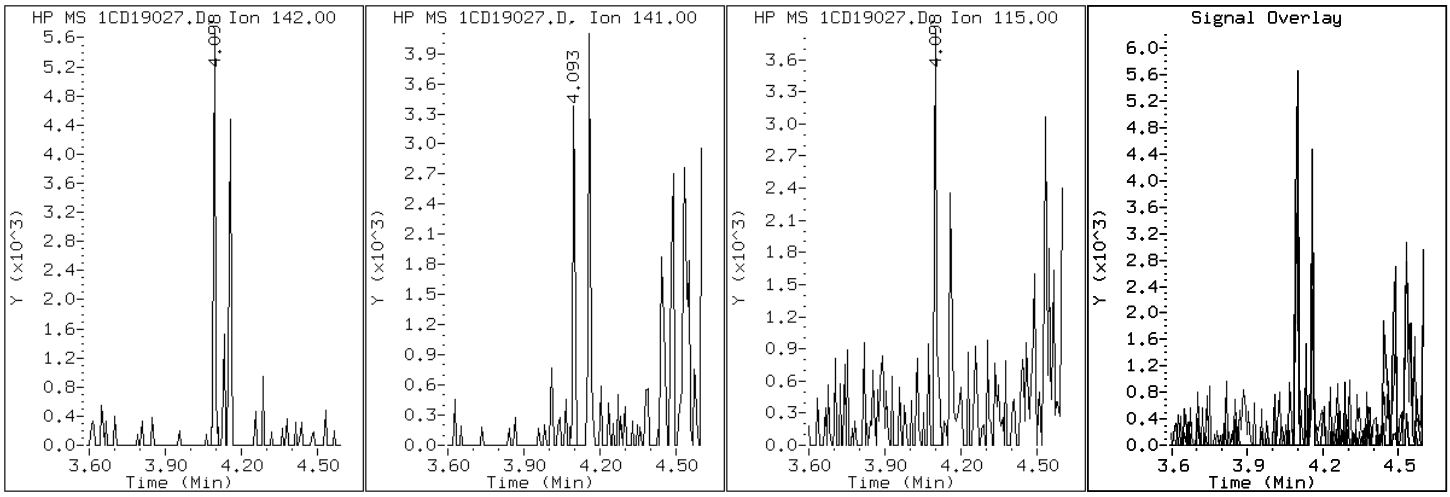
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

3 2-Methylnaphthalene



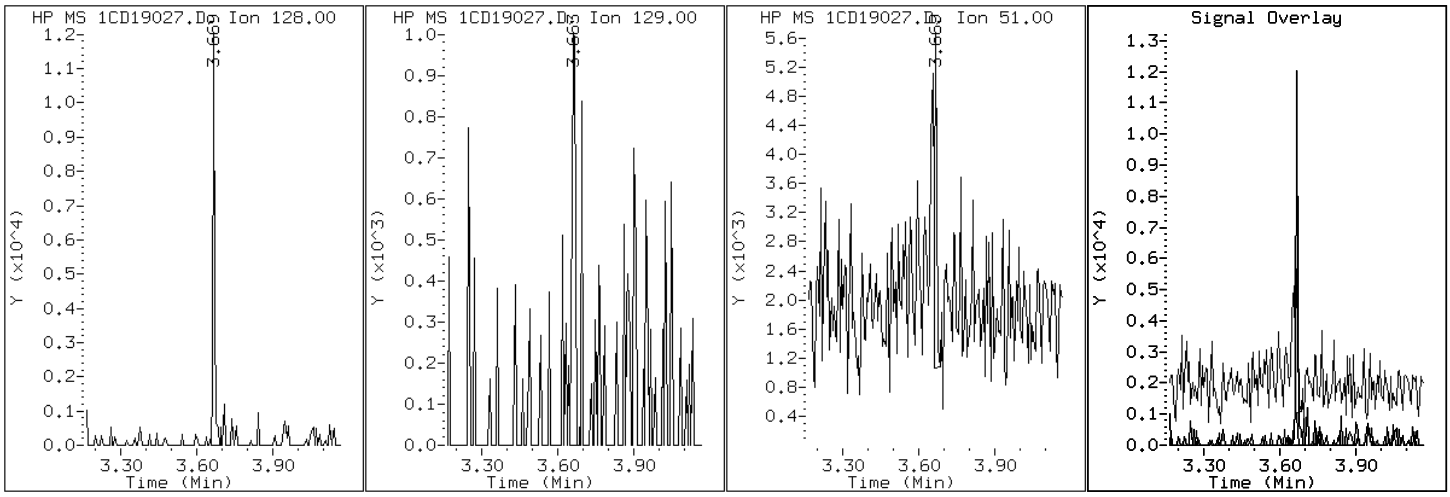
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

2 Naphthalene



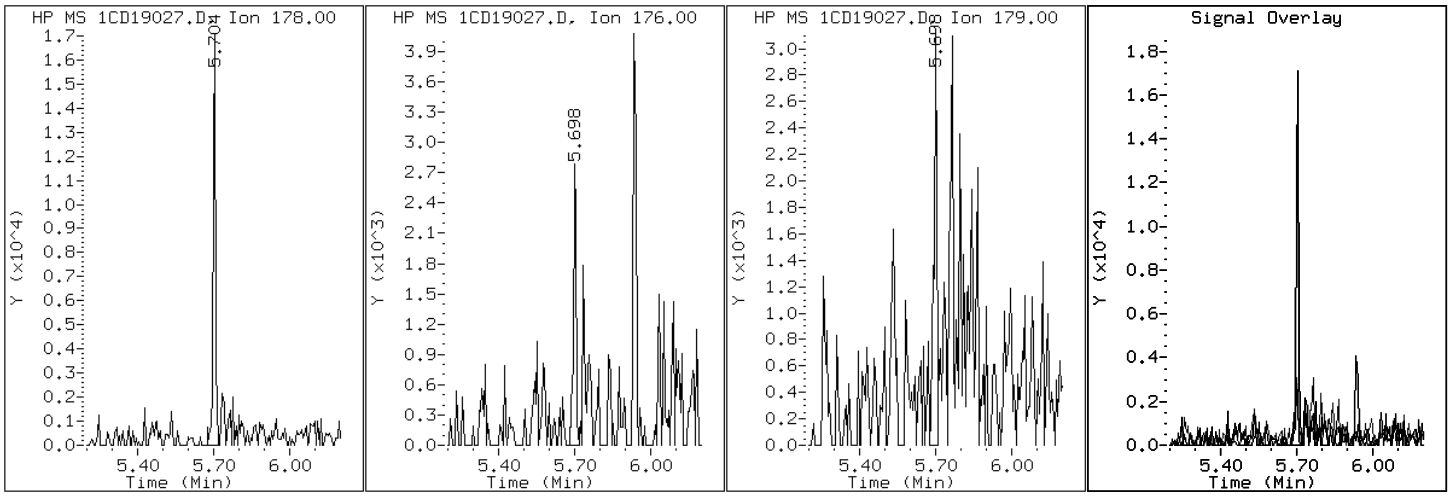
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

11 Phenanthrene



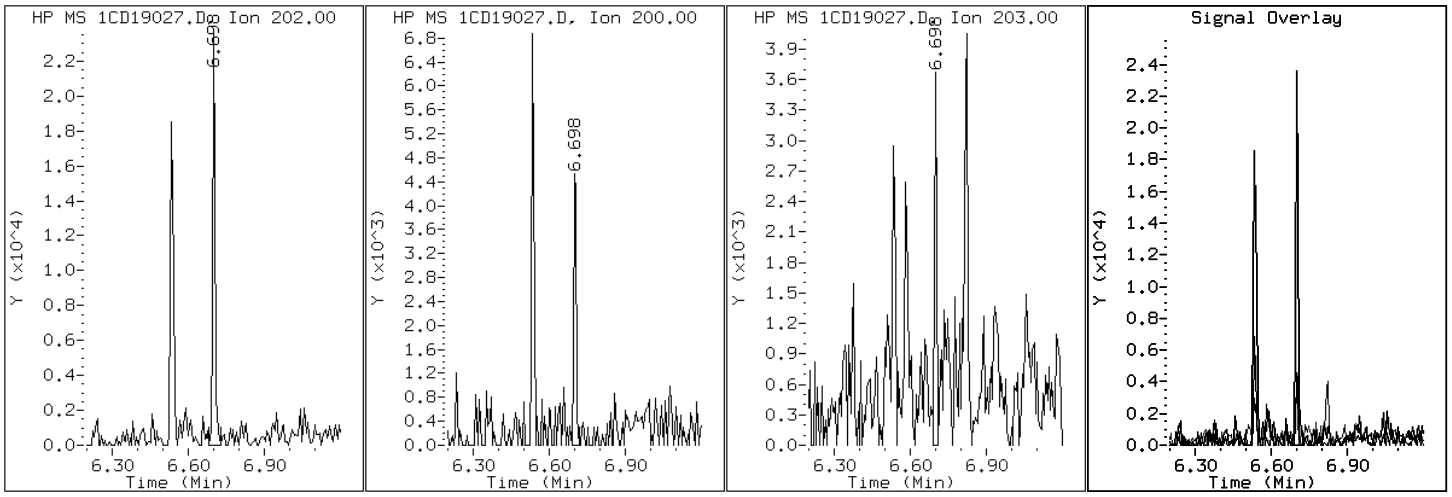
Data File: 1CD19027.D

Date: 19-APR-2013 19:05

Client ID: HP0040B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19027.D
Inj. Date and Time: 19-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: HP0040B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

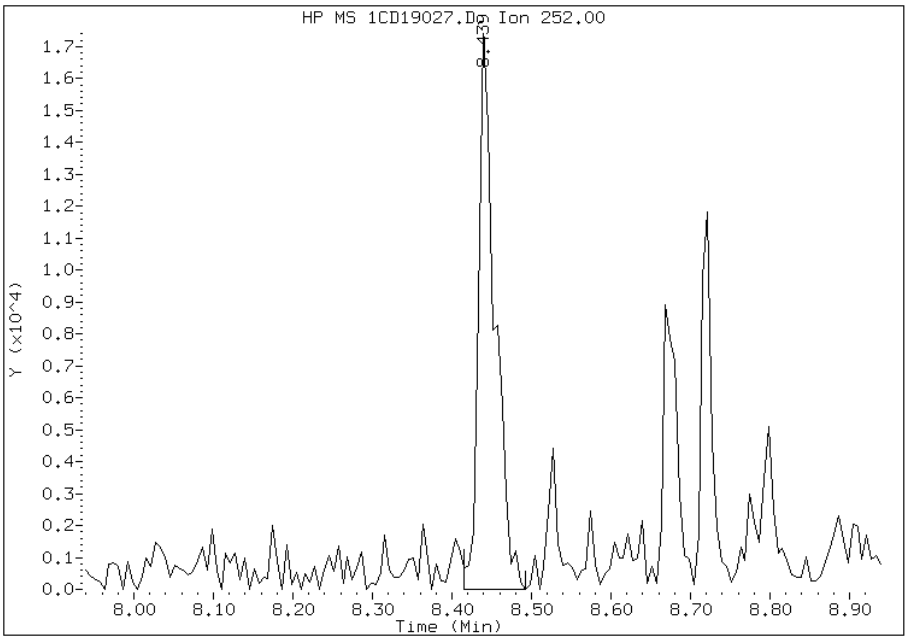
Processing Integration Results

RT: 8.44

Response: 25212

Amount: 3

Conc: 219



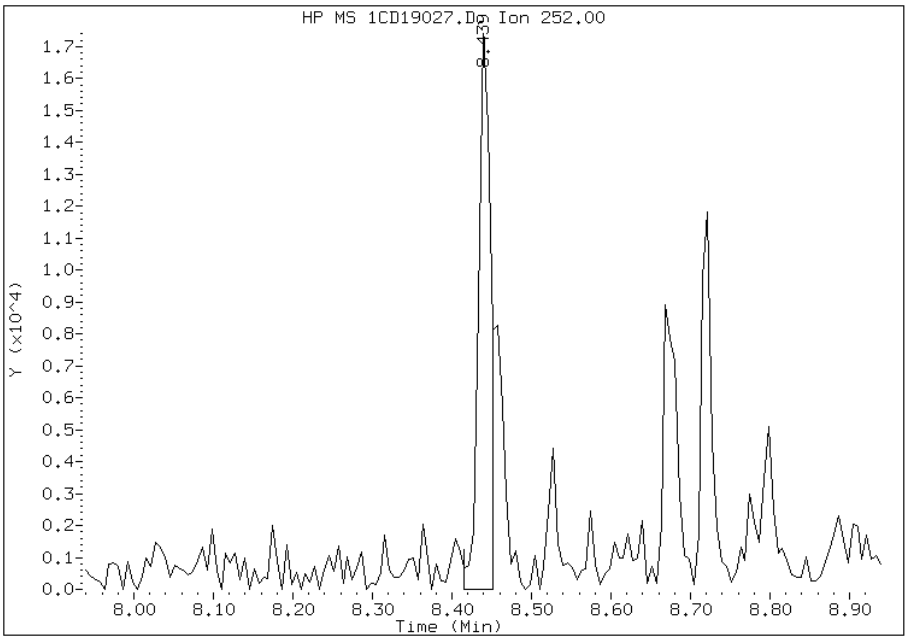
Manual Integration Results

RT: 8.44

Response: 18420

Amount: 2

Conc: 160



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19027.D
Inj. Date and Time: 19-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: HP0040B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

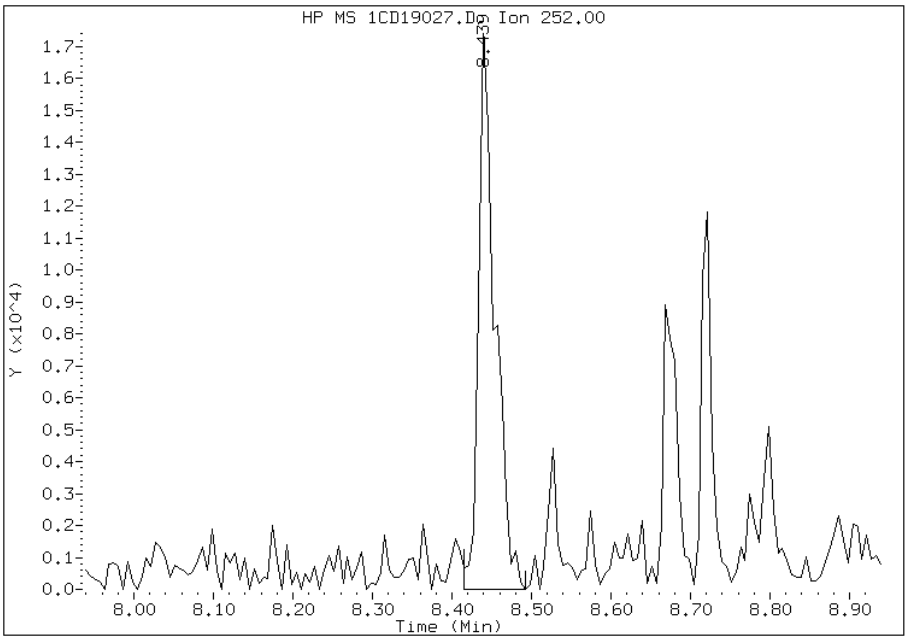
Processing Integration Results

RT: 8.44

Response: 25212

Amount: 3

Conc: 193



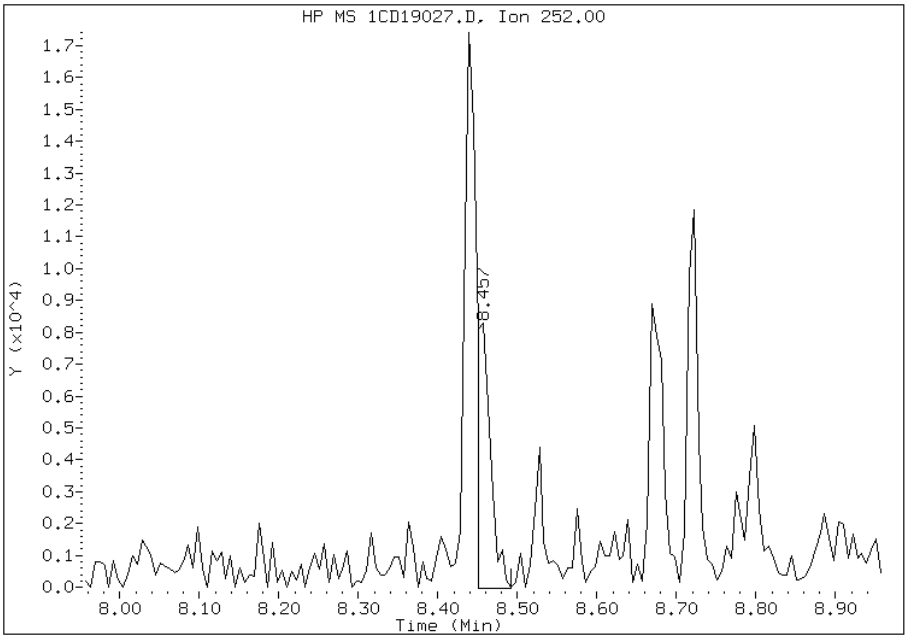
Manual Integration Results

RT: 8.46

Response: 9739

Amount: 1

Conc: 75



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19027.D
Inj. Date and Time: 19-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: HP0040B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/22/2013

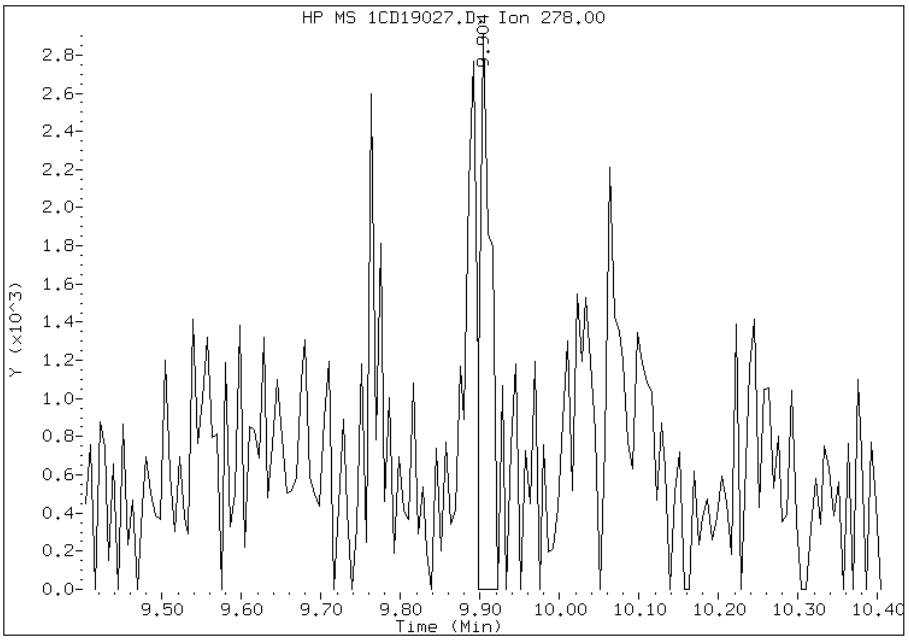
Processing Integration Results

RT: 9.90

Response: 2700

Amount: 1

Conc: 58



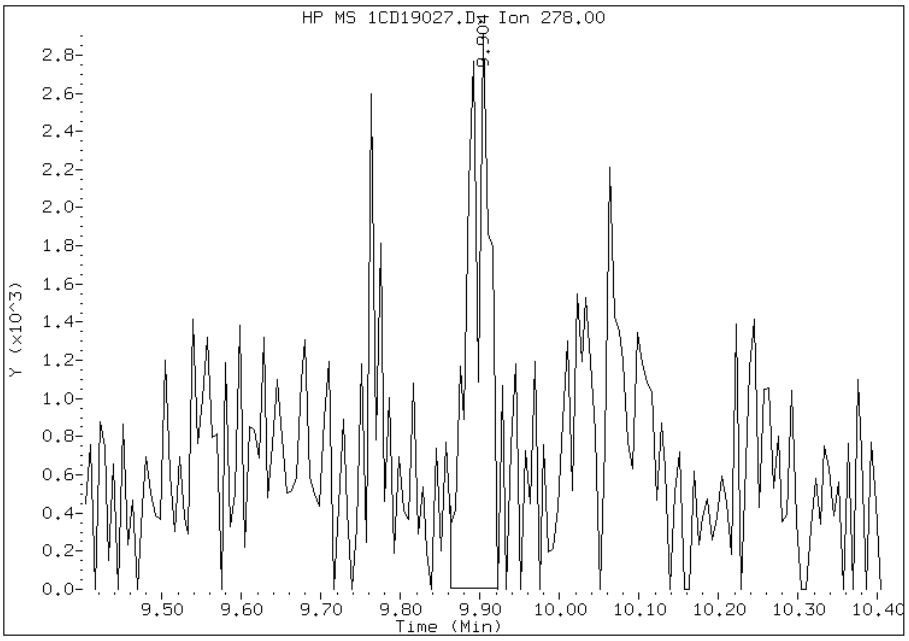
Manual Integration Results

RT: 9.90

Response: 5403

Amount: 1

Conc: 81



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19027.D
Inj. Date and Time: 19-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: HP0040B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

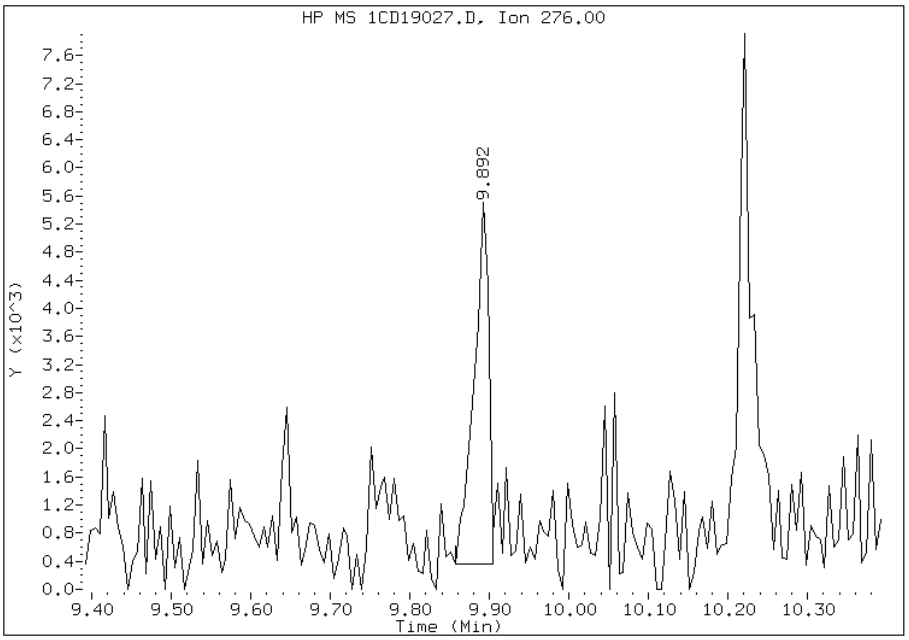
Processing Integration Results

RT: 9.89

Response: 6564

Amount: 1

Conc: 105



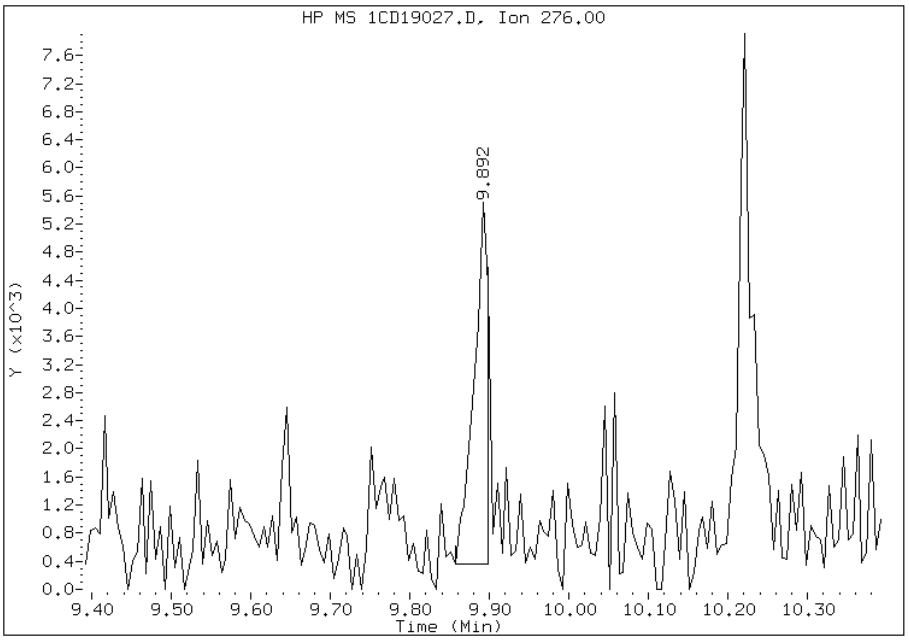
Manual Integration Results

RT: 9.89

Response: 6410

Amount: 1

Conc: 104



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0083A-CS-SP | Lab Sample ID: 680-89328-4

Matrix: Solid | Lab File ID: 1CD19028.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:53

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.21(g) | Date Analyzed: 04/19/2013 19:23

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

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

% Moisture: 30.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	36	J	57	7.1
120-12-7	Anthracene	83		12	6.0
56-55-3	Benzo[a]anthracene	210		11	5.6
50-32-8	Benzo[a]pyrene	180		15	7.4
205-99-2	Benzo[b]fluoranthene	390		17	8.7
191-24-2	Benzo[g,h,i]perylene	190		28	6.3
207-08-9	Benzo[k]fluoranthene	180		11	5.1
218-01-9	Chrysene	300		13	6.4
53-70-3	Dibenz(a,h)anthracene	91		28	5.8
206-44-0	Fluoranthene	380		28	5.7
86-73-7	Fluorene	30		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	230		28	10
90-12-0	1-Methylnaphthalene	150		57	6.3
91-57-6	2-Methylnaphthalene	170		57	10
91-20-3	Naphthalene	170		57	6.3
85-01-8	Phenanthrene	340		11	5.6
129-00-0	Pyrene	320		28	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19028.D
Lab Smp Id: 680-89328-A-4-A Client Smp ID: HP0083A-CS-SP
Inj Date : 19-APR-2013 19:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-4-a
Misc Info : 680-89328-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 28
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	15.210	Weight Extracted
M	30.743	% 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	3.657	3.657	(1.000)	259341	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	186213	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	328637	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	31568	6.49037	616.1316
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	342609	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	303706	40.0000	
	2 Naphthalene	128	3.668	3.669	(1.003)	12797	1.82543	173.2886(Q)
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	7156	1.79900	170.7792
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	7114	1.58867	150.8123
	5 Acenaphthylene	152	4.657	4.657	(0.981)	2983	0.37805	35.8881
	9 Fluorene	166	5.086	5.080	(1.072)	1928	0.31861	30.2456(Q)
	11 Phenanthrene	178	5.704	5.698	(1.003)	34577	3.58979	340.7790
	12 Anthracene	178	5.739	5.733	(1.009)	8325	0.87258	82.8340
	13 Carbazole	167	5.845	5.845	(1.028)	5629	0.63349	60.1371(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.533	6.533	(1.149)	42914	4.02531	382.1229
16 Pyrene	202	6.698	6.698	(0.879)	33066	3.39247	322.0481
17 Benzo(a)anthracene	228	7.609	7.610	(0.998)	21009	2.16849	205.8550
19 Chrysene	228	7.639	7.639	(1.002)	29967	3.12672	296.8202
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	31121	4.05705	385.1367(M)
21 Benzo(k)fluoranthene	252	8.451	8.457	(0.963)	16341	1.88261	178.7164(QM)
22 Benzo(a)pyrene	252	8.715	8.715	(0.993)	15188	1.91544	181.8334
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.880	(1.127)	13923	2.40683	228.4810
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.127)	3991	0.96020	91.1523
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.164)	14545	1.95705	185.7831

QC Flag Legend

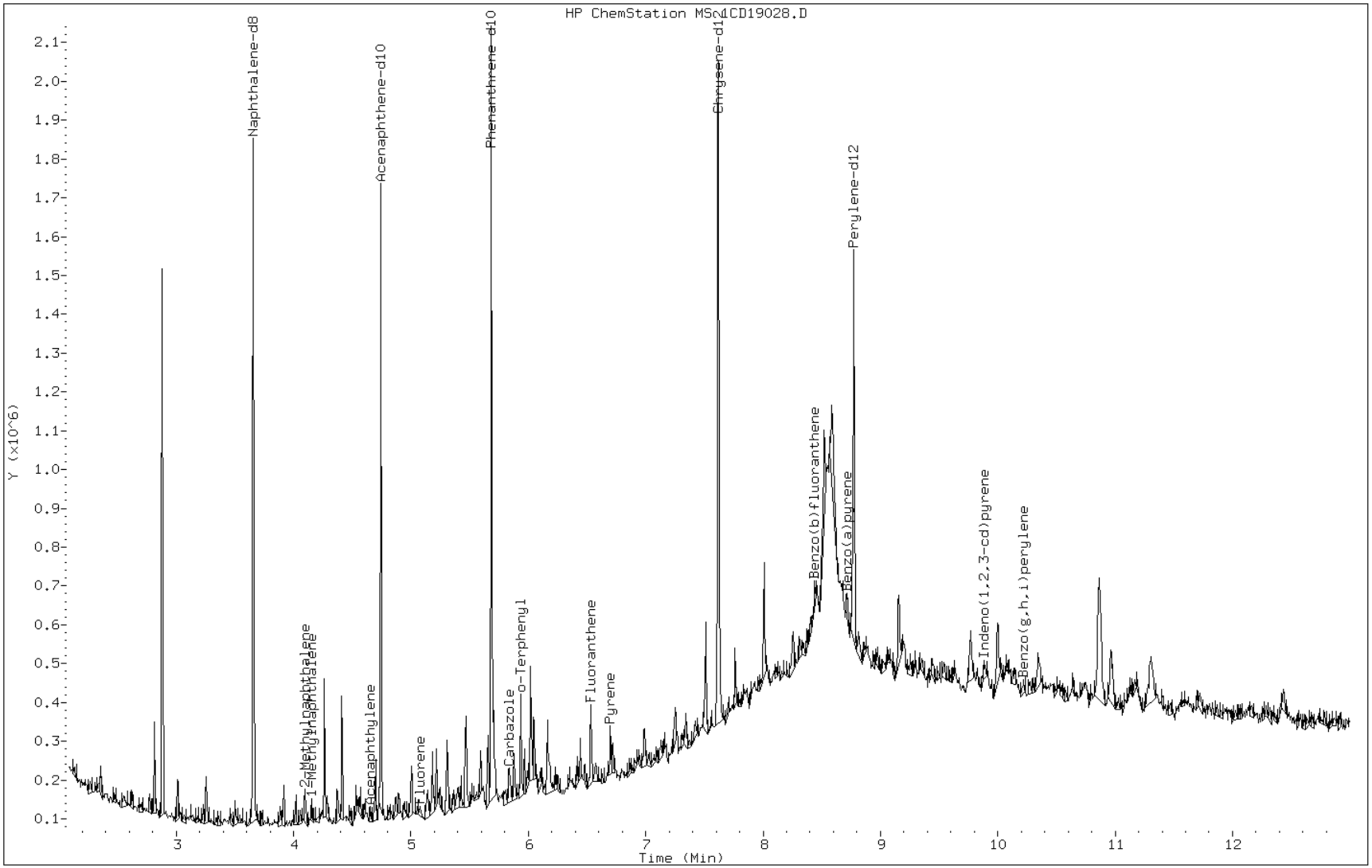
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC



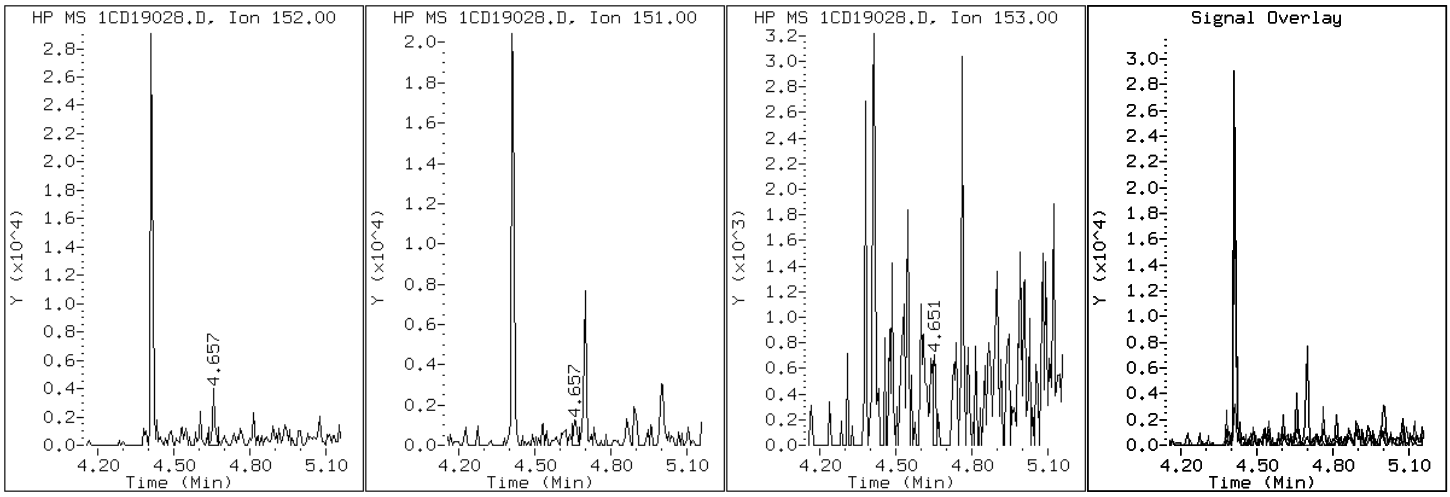
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

5 Acenaphthylene



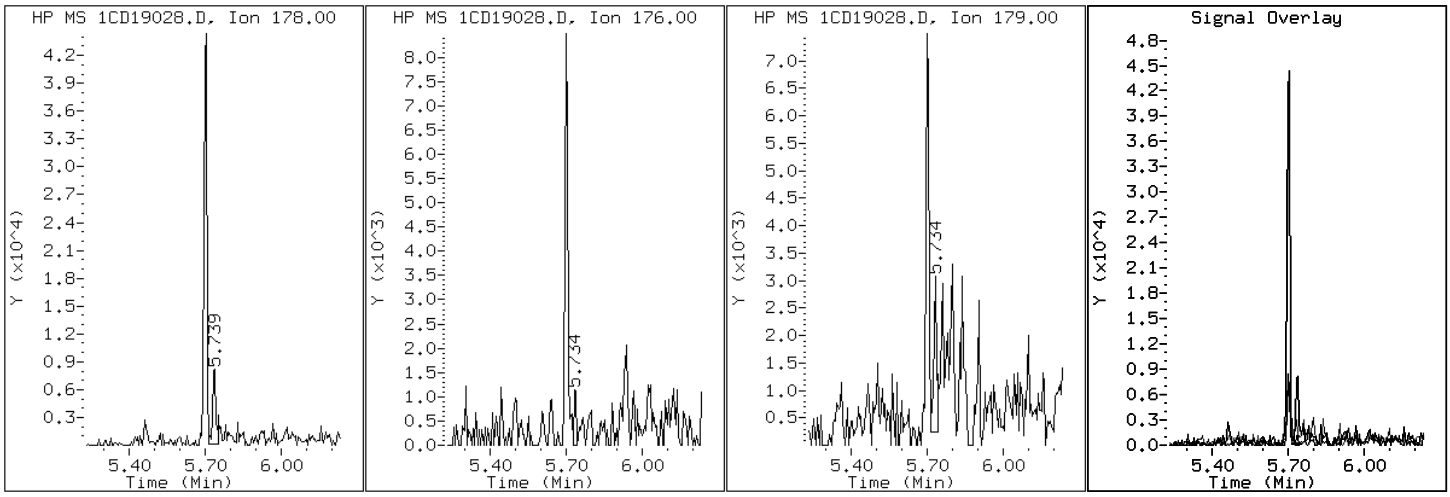
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

12 Anthracene



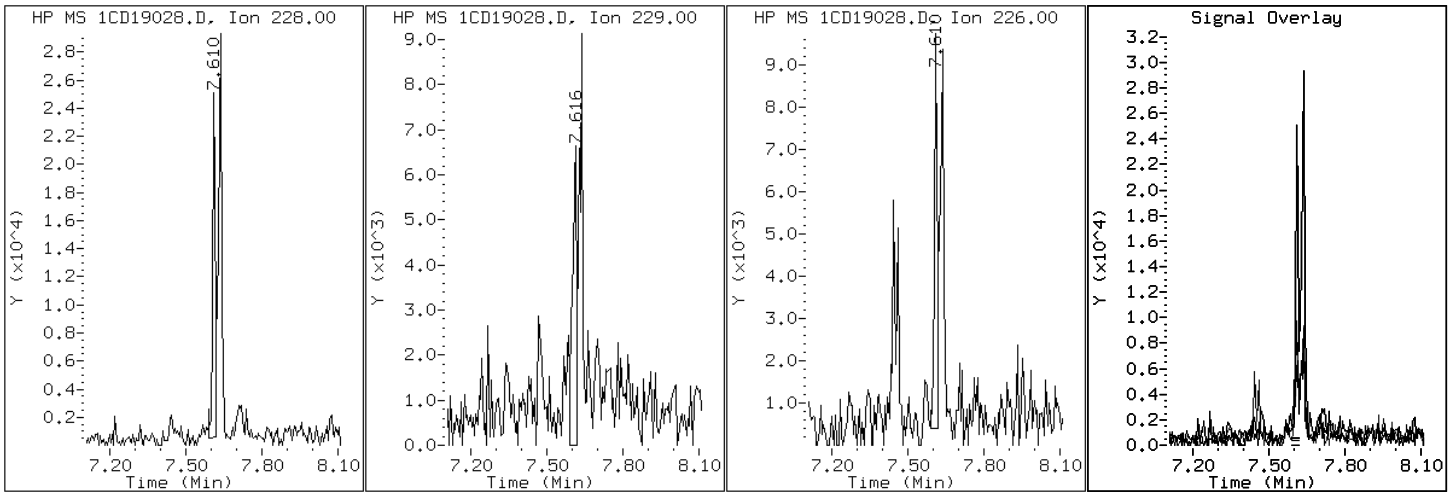
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

17 Benzo(a)anthracene



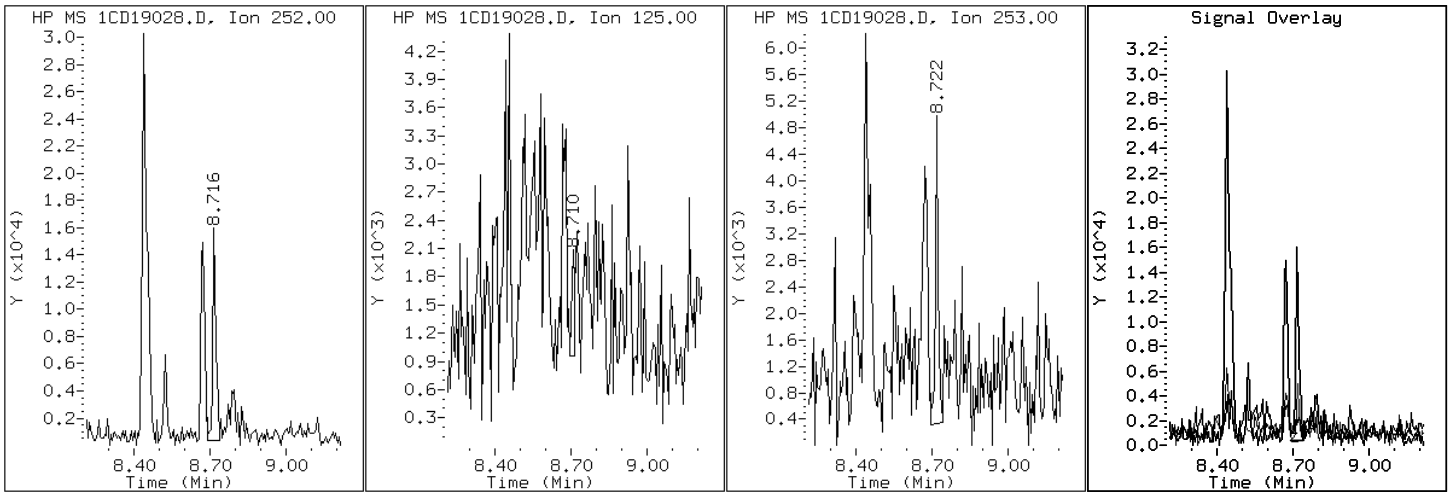
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

22 Benzo(a)pyrene



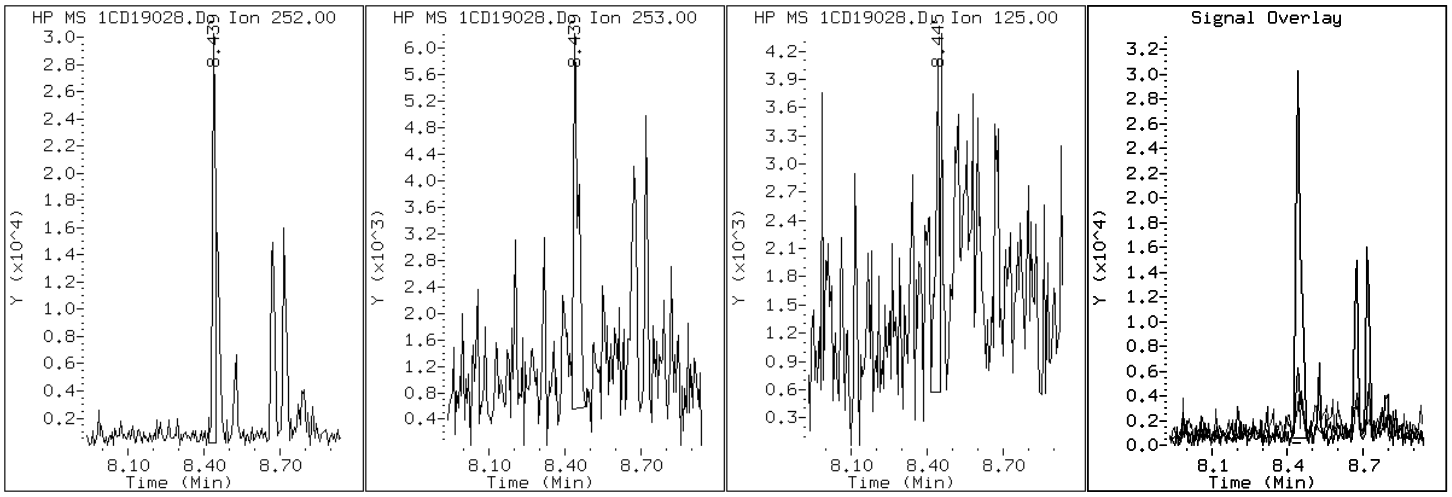
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



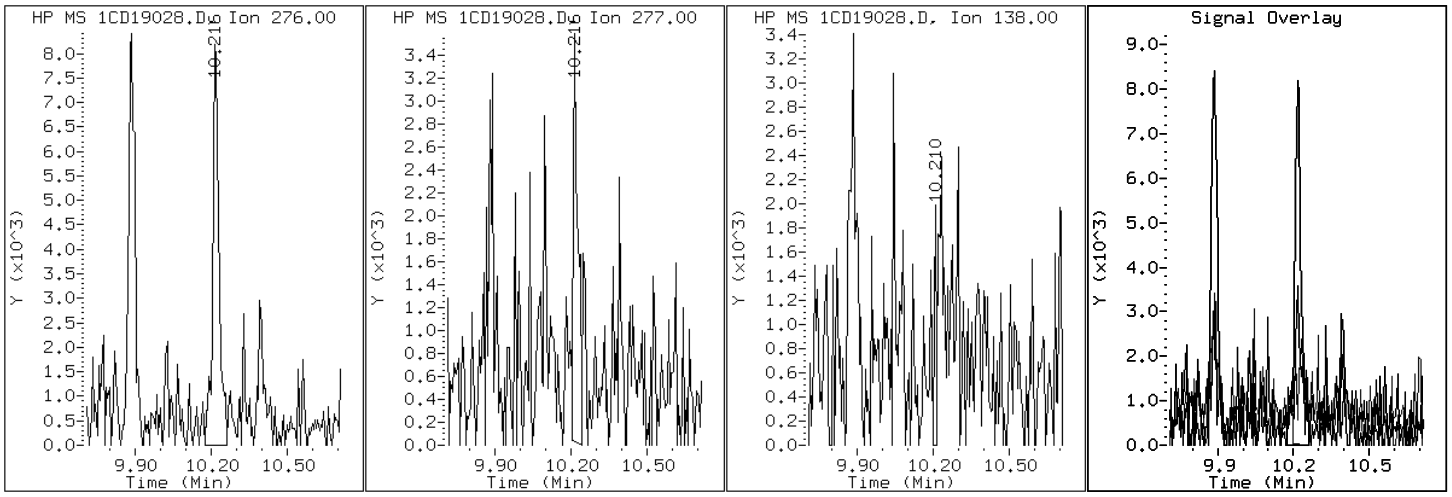
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



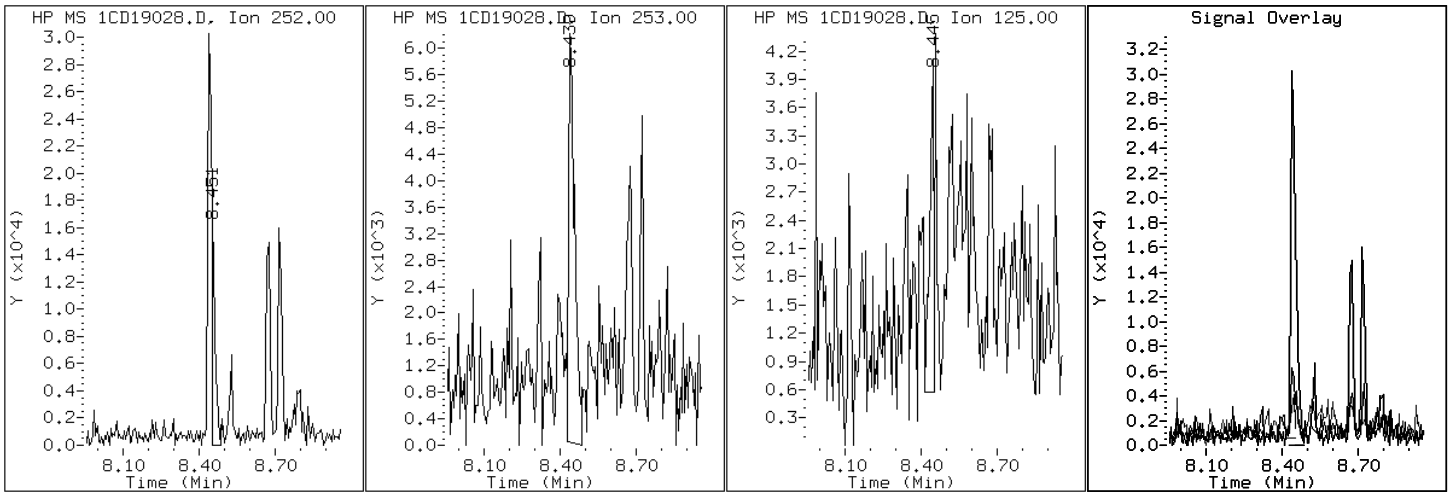
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



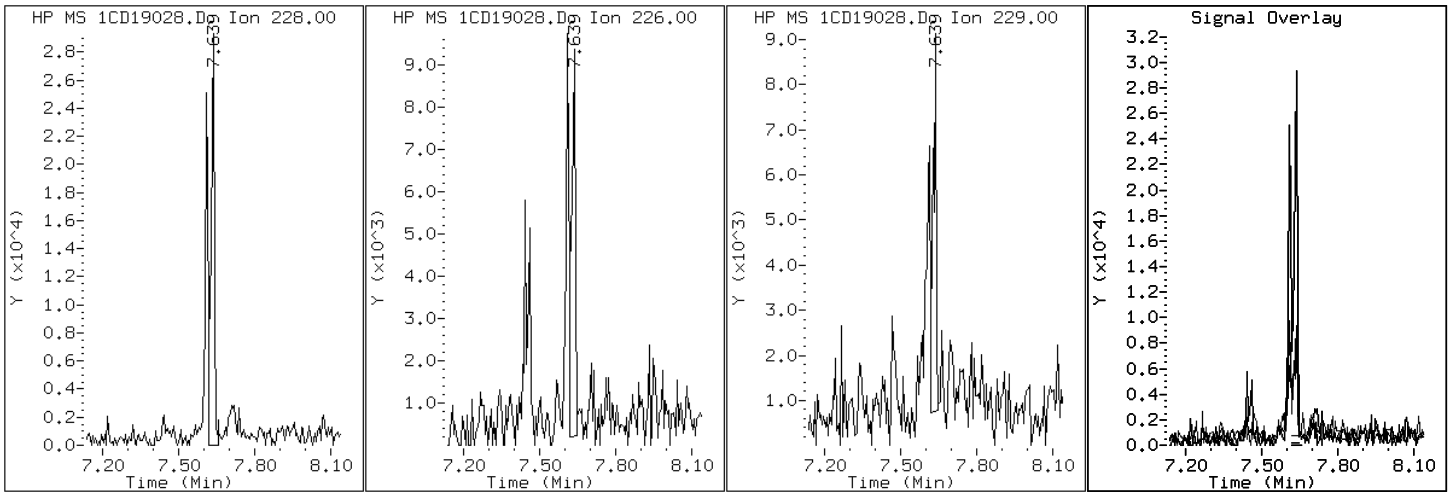
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

19 Chrysene



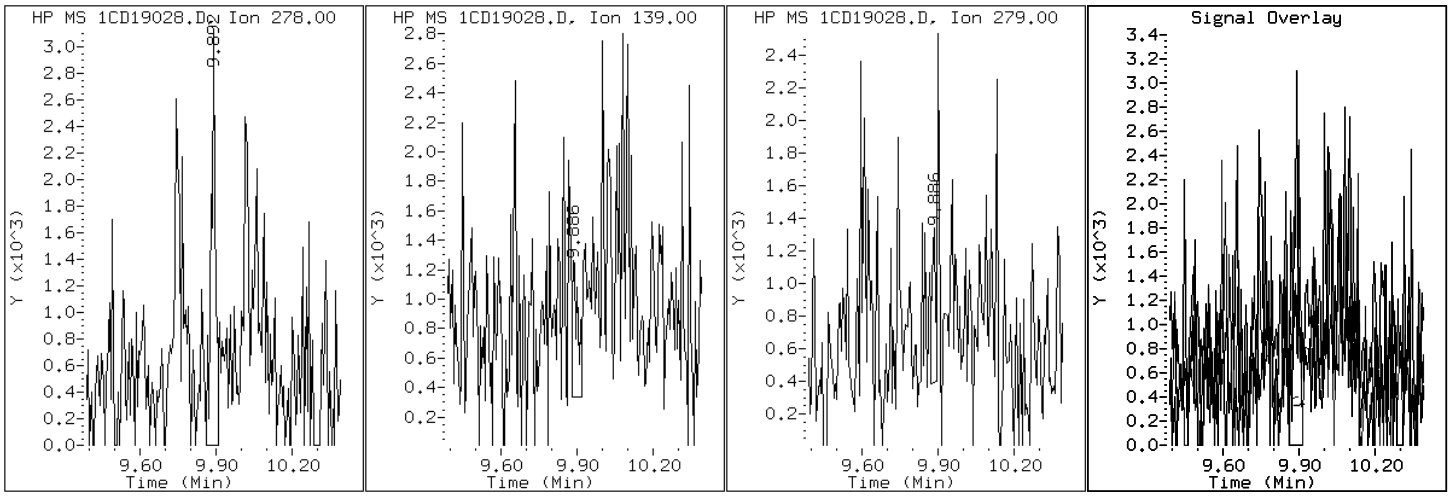
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

25 Dibenzo(a,h)anthracene



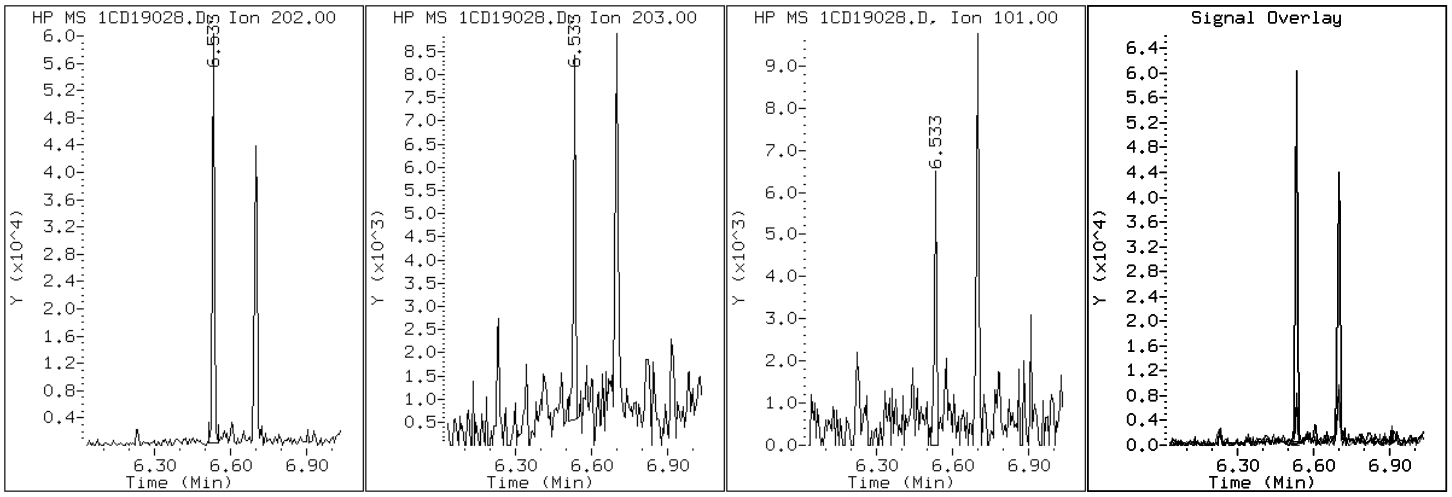
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

15 Fluoranthene



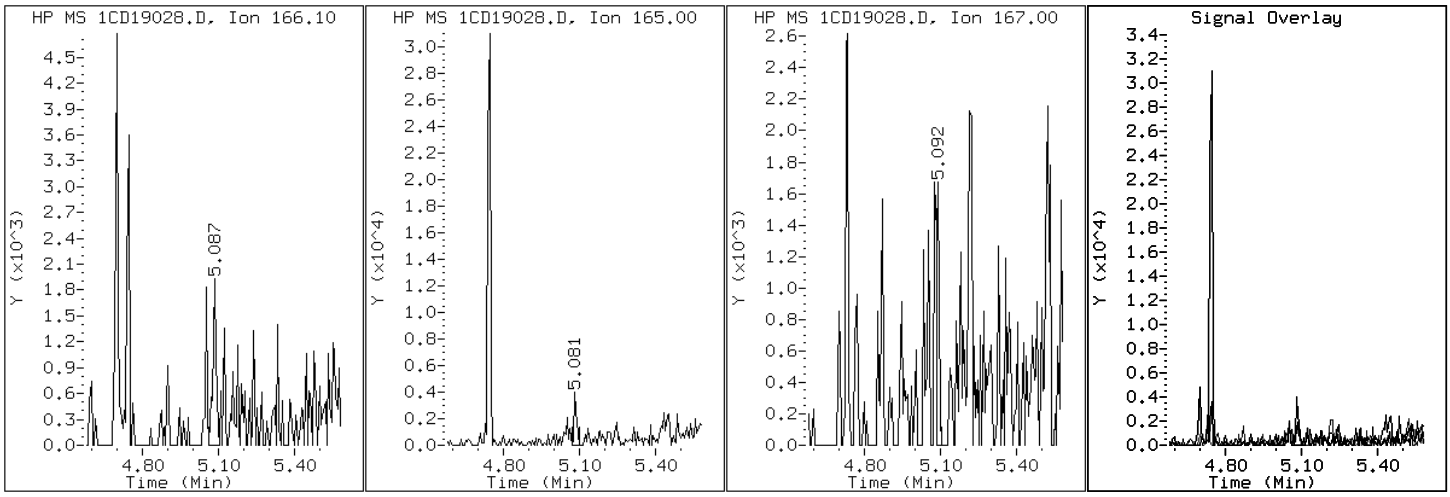
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

9 Fluorene



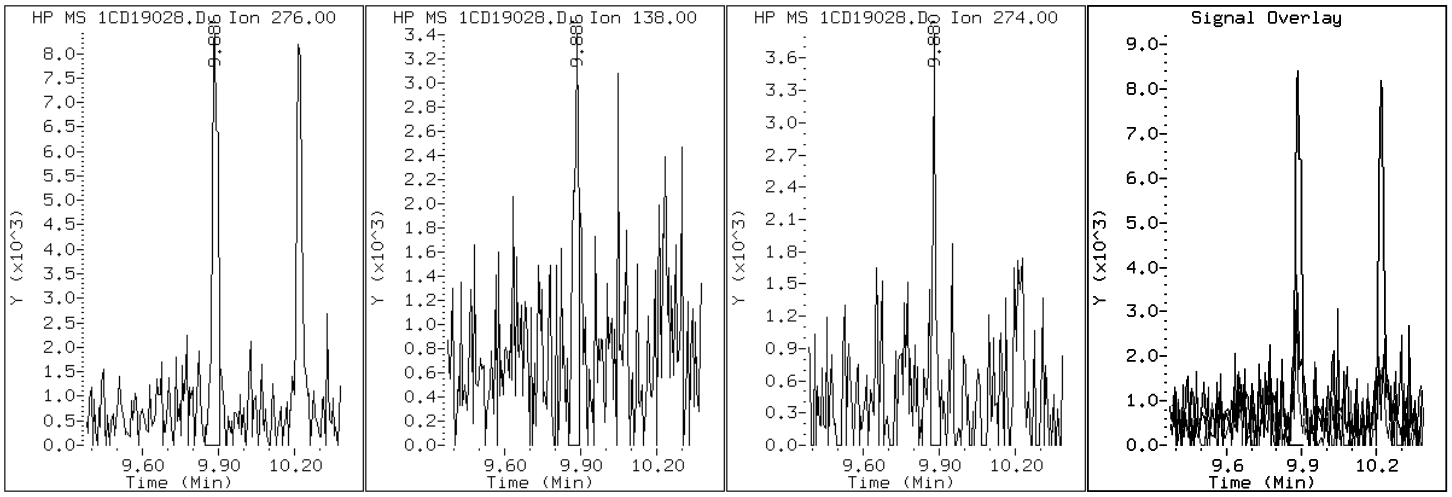
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

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



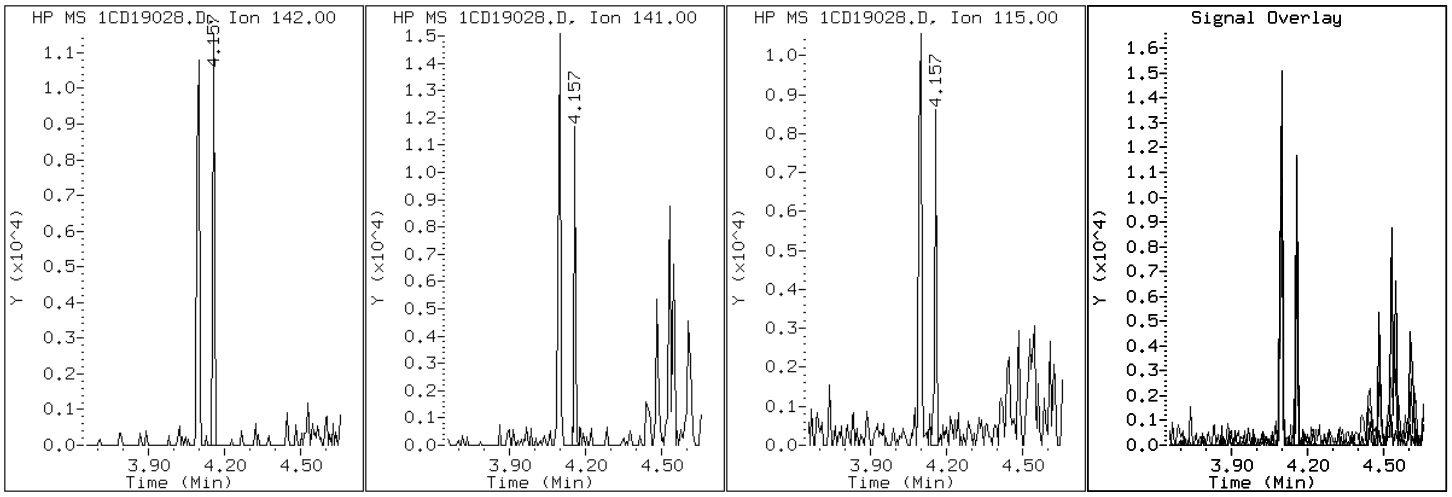
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

4 1-Methylnaphthalene



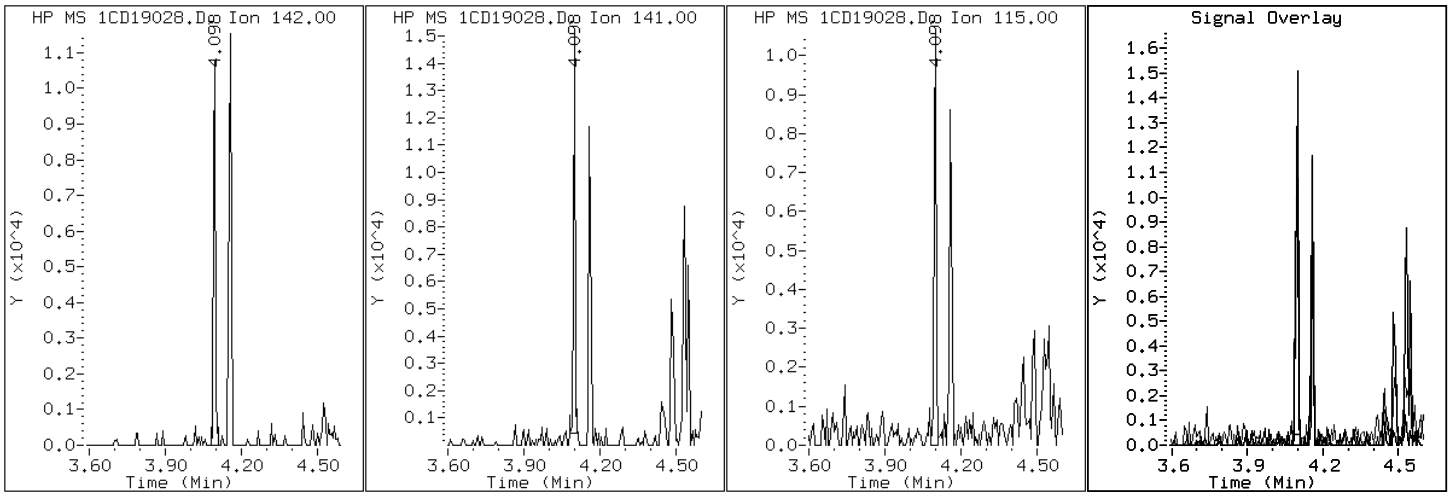
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

3 2-Methylnaphthalene



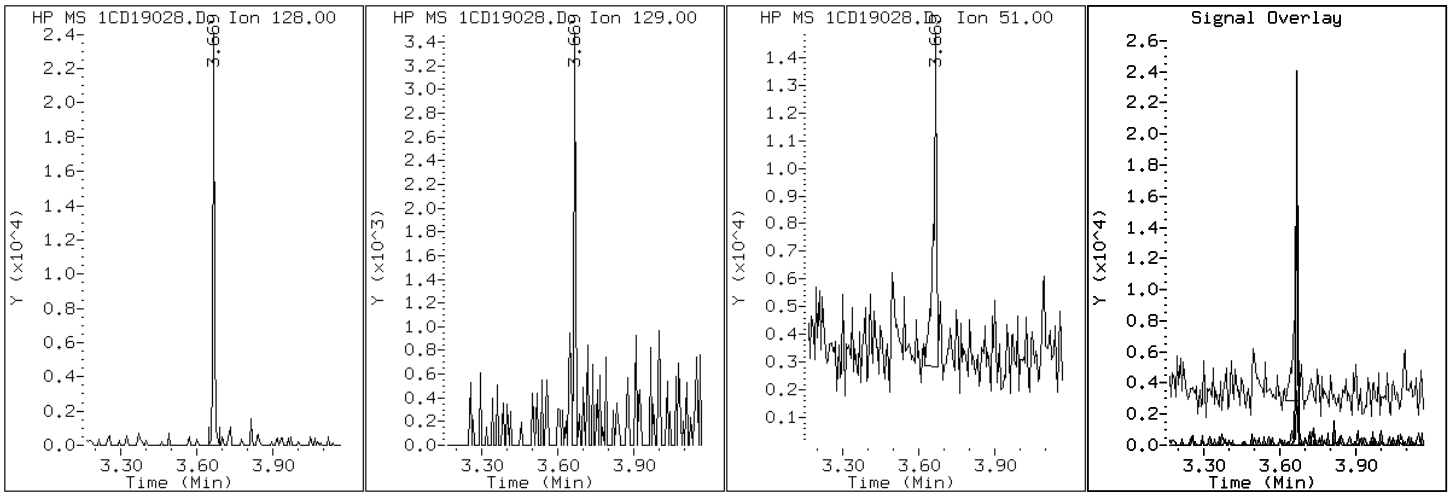
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

2 Naphthalene



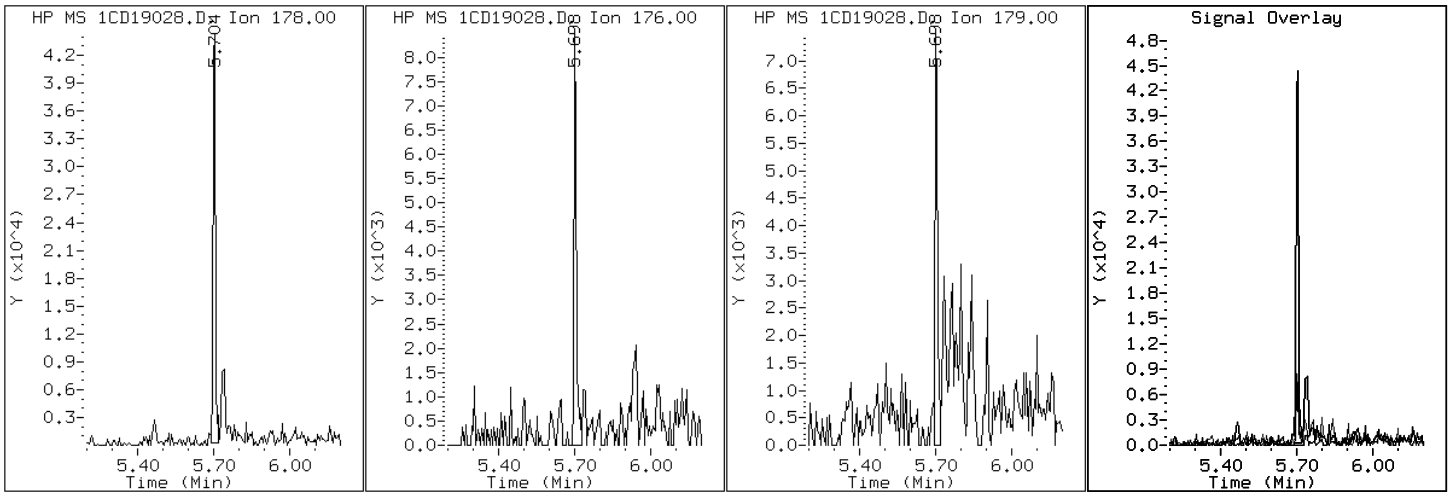
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

11 Phenanthrene



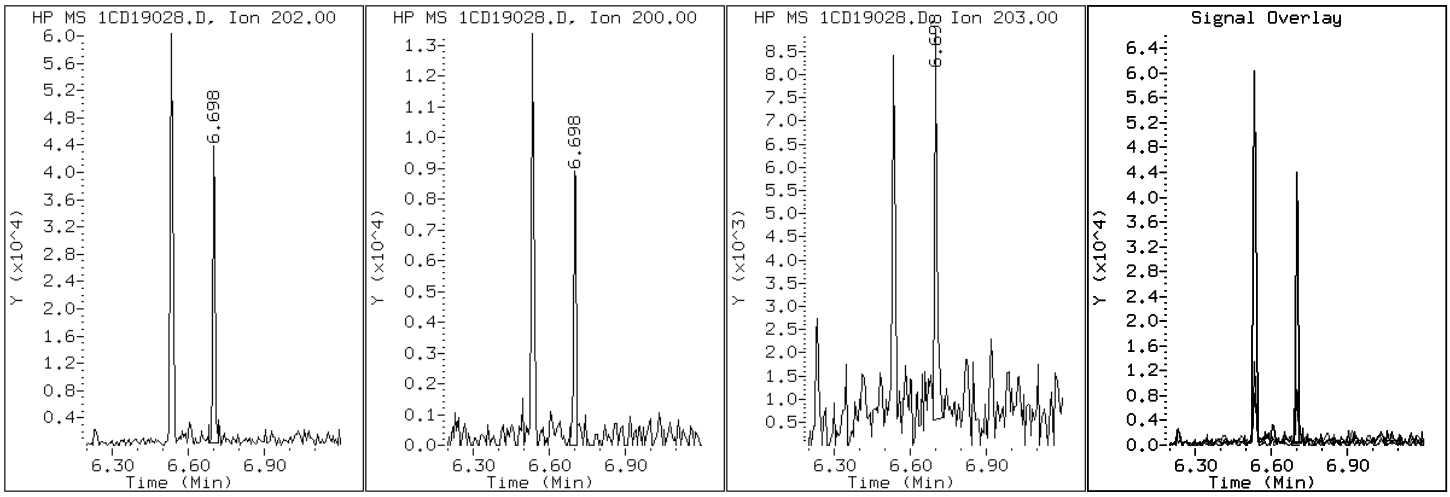
Data File: 1CD19028.D

Date: 19-APR-2013 19:23

Client ID: HP0083A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19028.D
Inj. Date and Time: 19-APR-2013 19:23
Instrument ID: BSMC5973.i
Client ID: HP0083A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

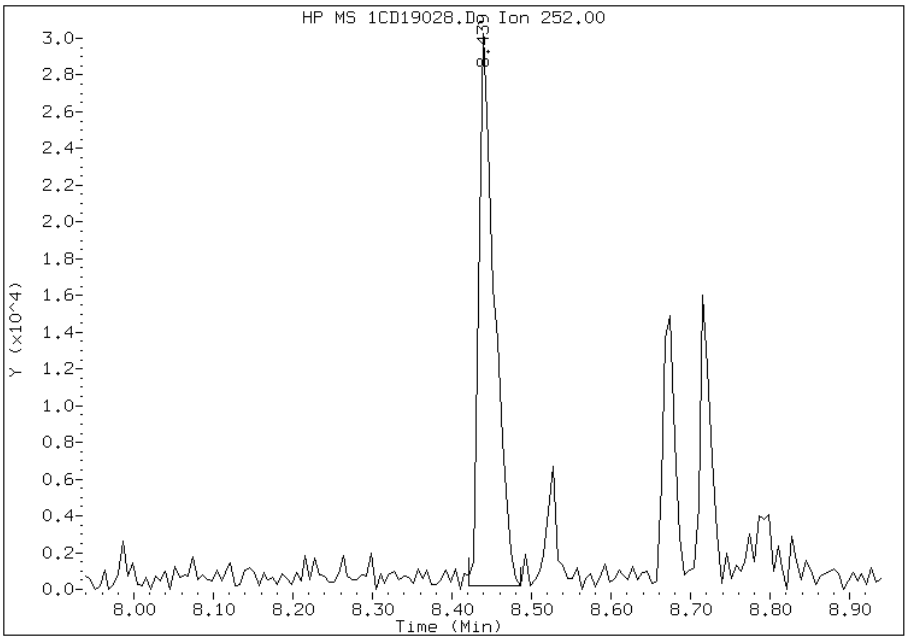
Processing Integration Results

RT: 8.44

Response: 41252

Amount: 5

Conc: 511



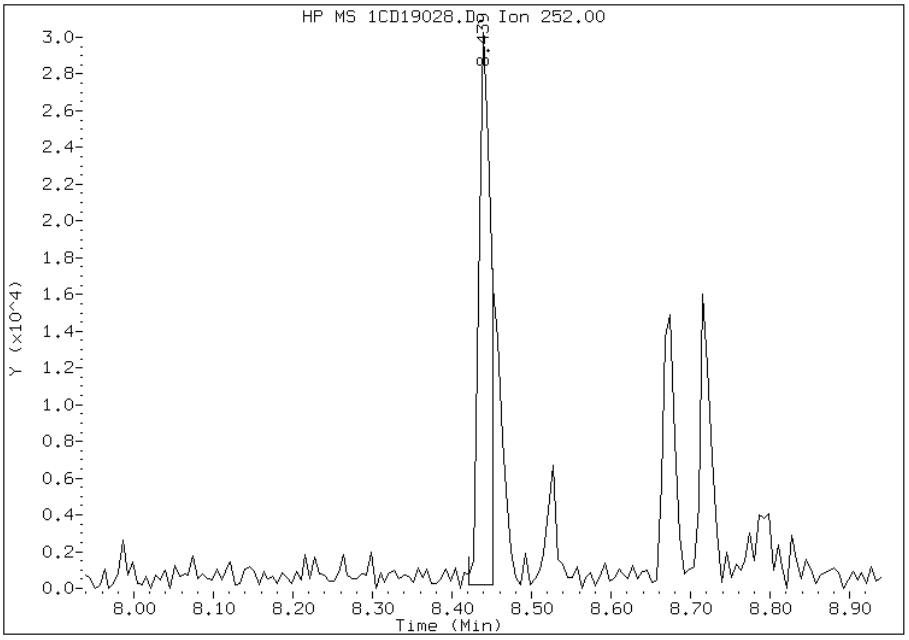
Manual Integration Results

RT: 8.44

Response: 31121

Amount: 4

Conc: 385



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19028.D
Inj. Date and Time: 19-APR-2013 19:23
Instrument ID: BSMC5973.i
Client ID: HP0083A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

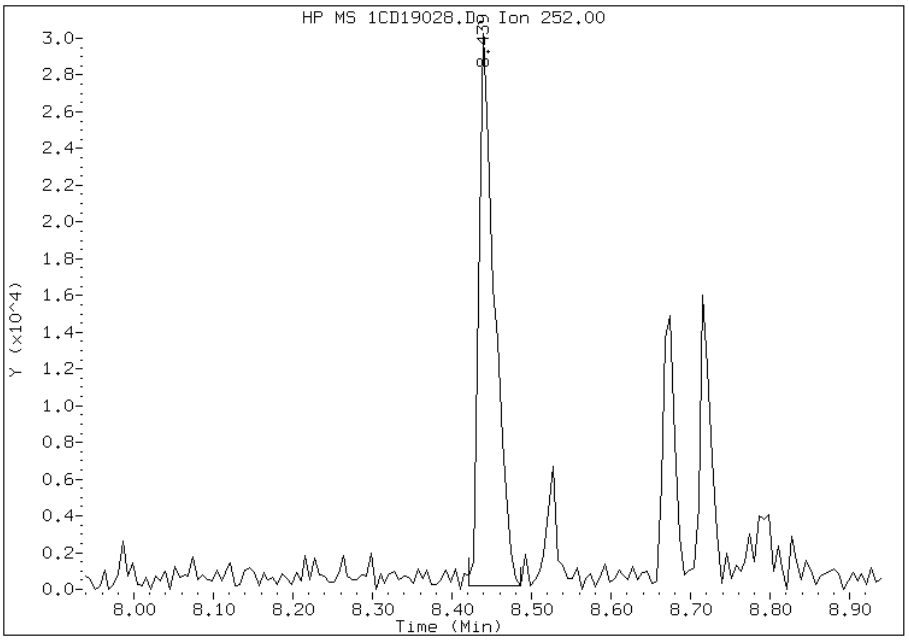
Processing Integration Results

RT: 8.44

Response: 41199

Amount: 5

Conc: 451



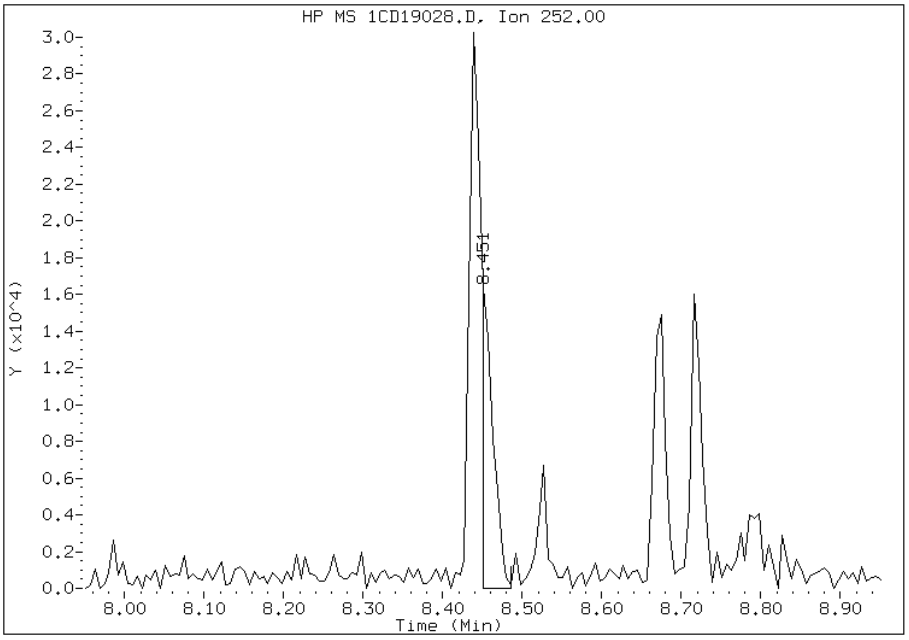
Manual Integration Results

RT: 8.45

Response: 16341

Amount: 2

Conc: 179



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 13:20
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0083B-CS-SP | Lab Sample ID: 680-89328-5

Matrix: Solid | Lab File ID: 1CD19029.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:59

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.12(g) | Date Analyzed: 04/19/2013 19:42

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

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

% Moisture: 24.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	7.4	J	53	6.6
120-12-7	Anthracene	17		11	5.5
56-55-3	Benzo[a]anthracene	56		11	5.1
50-32-8	Benzo[a]pyrene	40		14	6.8
205-99-2	Benzo[b]fluoranthene	100		16	8.0
191-24-2	Benzo[g,h,i]perylene	66		26	5.8
207-08-9	Benzo[k]fluoranthene	22		11	4.7
218-01-9	Chrysene	73		12	5.9
53-70-3	Dibenz(a,h)anthracene	26	U	26	5.4
206-44-0	Fluoranthene	89		26	5.3
86-73-7	Fluorene	25	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	97		26	9.3
90-12-0	1-Methylnaphthalene	29	J	53	5.8
91-57-6	2-Methylnaphthalene	73		53	9.3
91-20-3	Naphthalene	73		53	5.8
85-01-8	Phenanthrene	120		11	5.1
129-00-0	Pyrene	64		26	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19029.D
Lab Smp Id: 680-89328-A-5-A Client Smp ID: HP0083B-CS-SP
Inj Date : 19-APR-2013 19:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-5-a
Misc Info : 680-89328-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	24.609	% 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	3.657	3.657	(1.000)	249452	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	175684	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	324214	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.043)	29203	6.12900	537.6737
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	336913	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	303415	40.0000	
	2 Naphthalene	128	3.668	3.669	(1.003)	5604	0.83107	72.9070
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	2516	0.83062	72.8671(Q)
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	1402	0.32550	28.5548(Q)
	5 Acenaphthylene	152	4.657	4.657	(0.981)	629	0.08449	7.4122(Q)
	9 Fluorene	166	5.086	5.080	(1.072)	1653	0.28954	25.3998
	11 Phenanthrene	178	5.704	5.698	(1.003)	12741	1.34489	117.9820
	12 Anthracene	178	5.733	5.733	(1.008)	1786	0.18975	16.6462(Q)
	13 Carbazole	167	5.845	5.845	(1.028)	1549	0.17670	15.5014(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.533	6.533	(1.149)	10705	1.01782	89.2895
16 Pyrene	202	6.698	6.698	(0.879)	6980	0.72823	63.8852
17 Benzo(a)anthracene	228	7.609	7.610	(0.998)	6051	0.63513	55.7172
19 Chrysene	228	7.639	7.639	(1.002)	7821	0.82983	72.7978
20 Benzo(b)fluoranthene	252	8.445	8.439	(0.962)	8905	1.16200	101.9381(Q)
21 Benzo(k)fluoranthene	252	8.462	8.457	(0.964)	2198	0.25347	22.2359(Q)
22 Benzo(a)pyrene	252	8.715	8.715	(0.993)	3630	0.45824	40.1995(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	3691	1.10841	97.2365
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.164)	5547	0.74707	65.5378(M)

QC Flag Legend

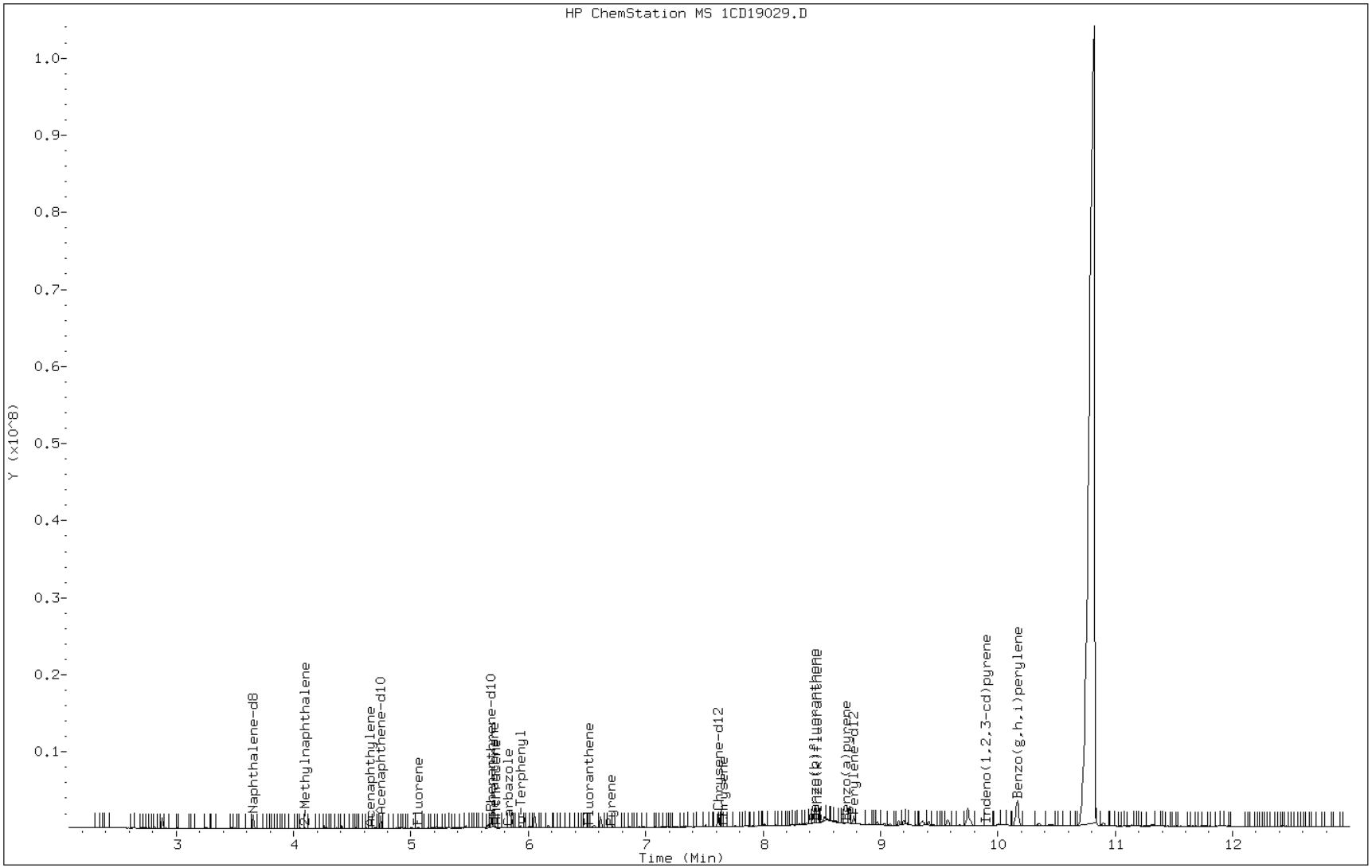
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC



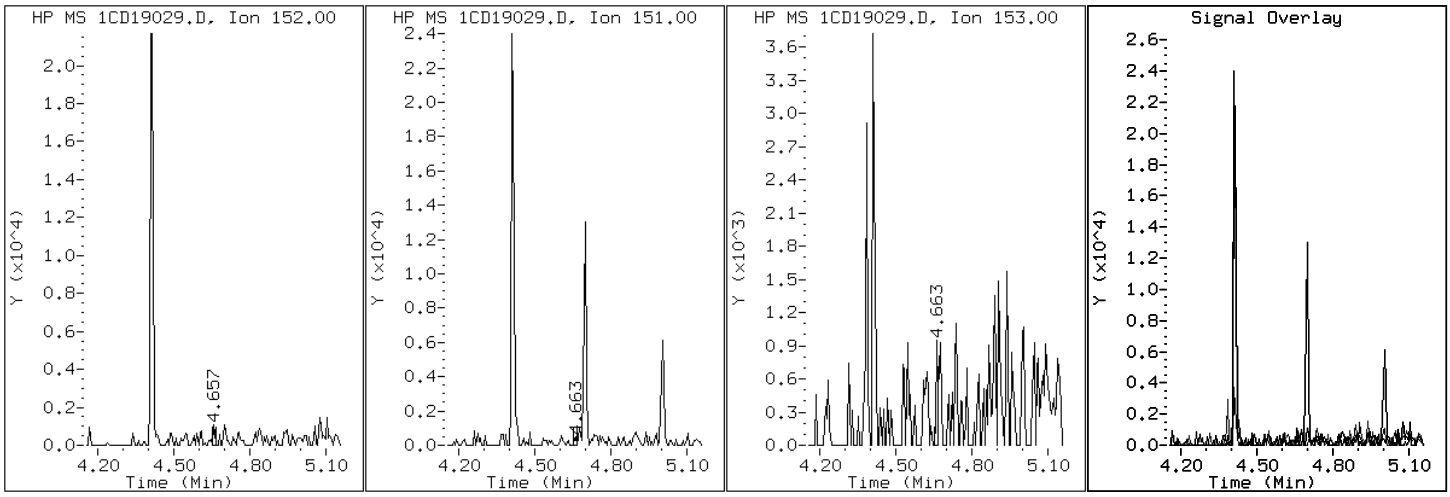
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

5 Acenaphthylene



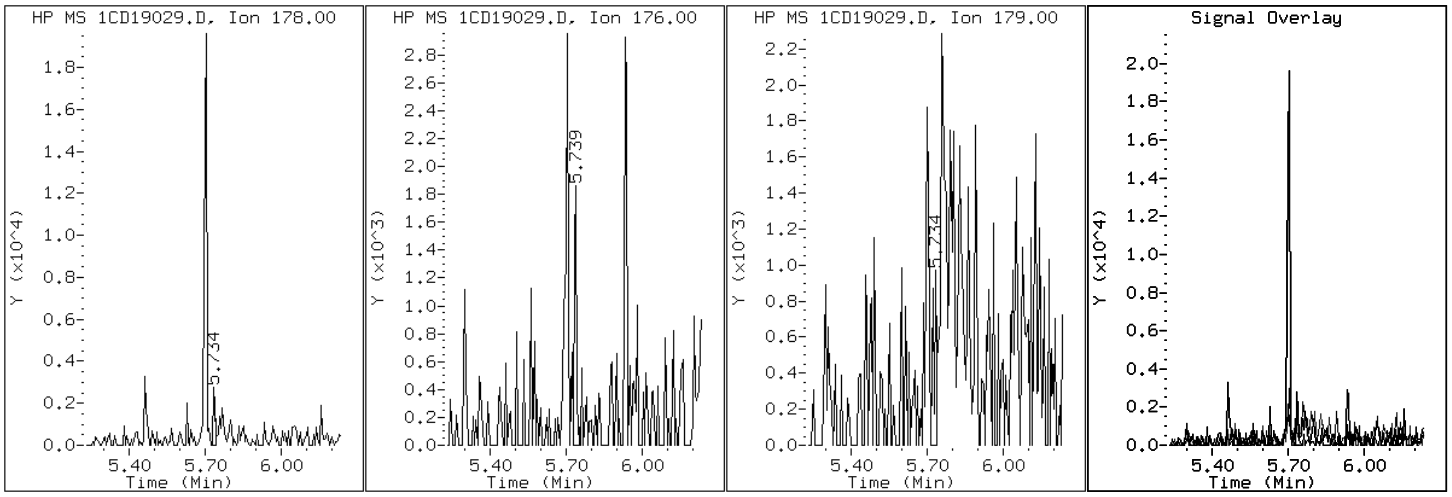
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

12 Anthracene



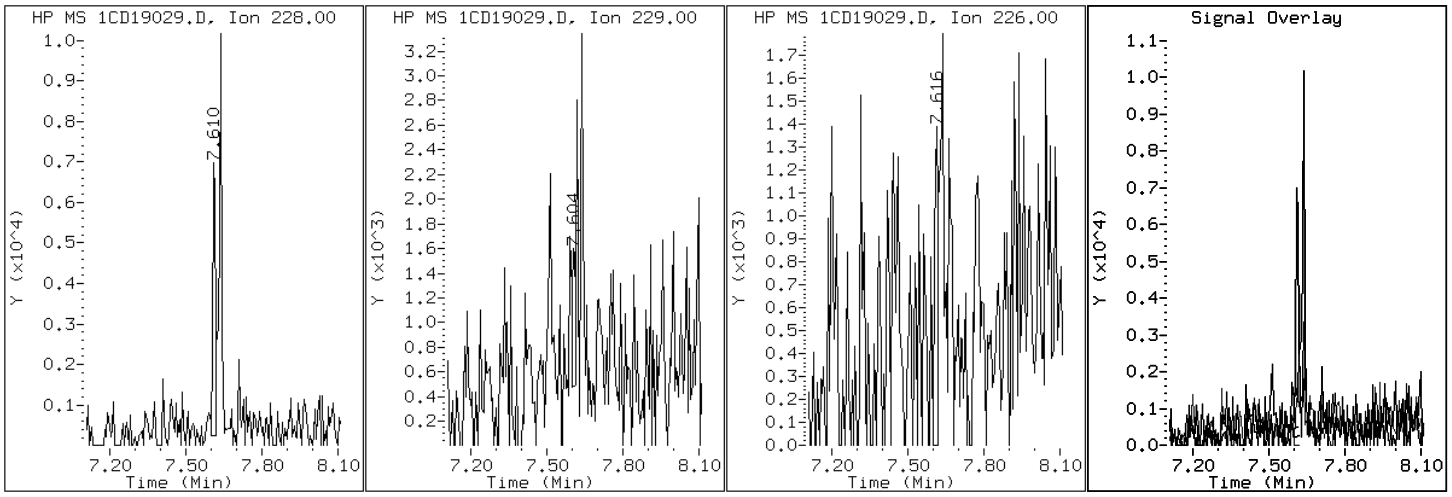
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

17 Benzo(a)anthracene



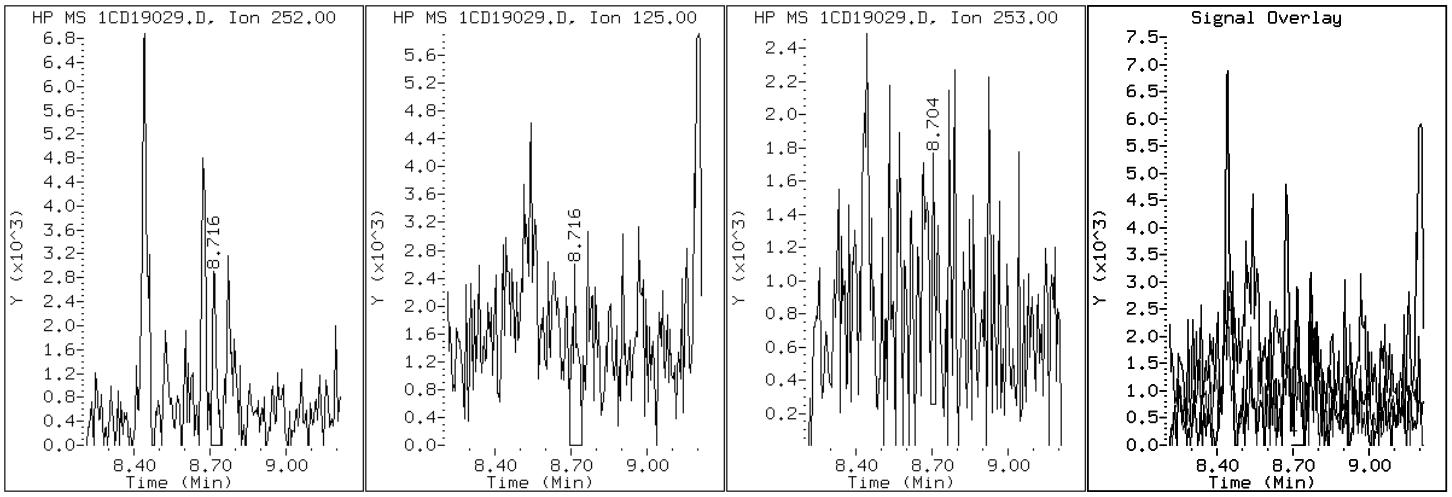
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

22 Benzo(a)pyrene



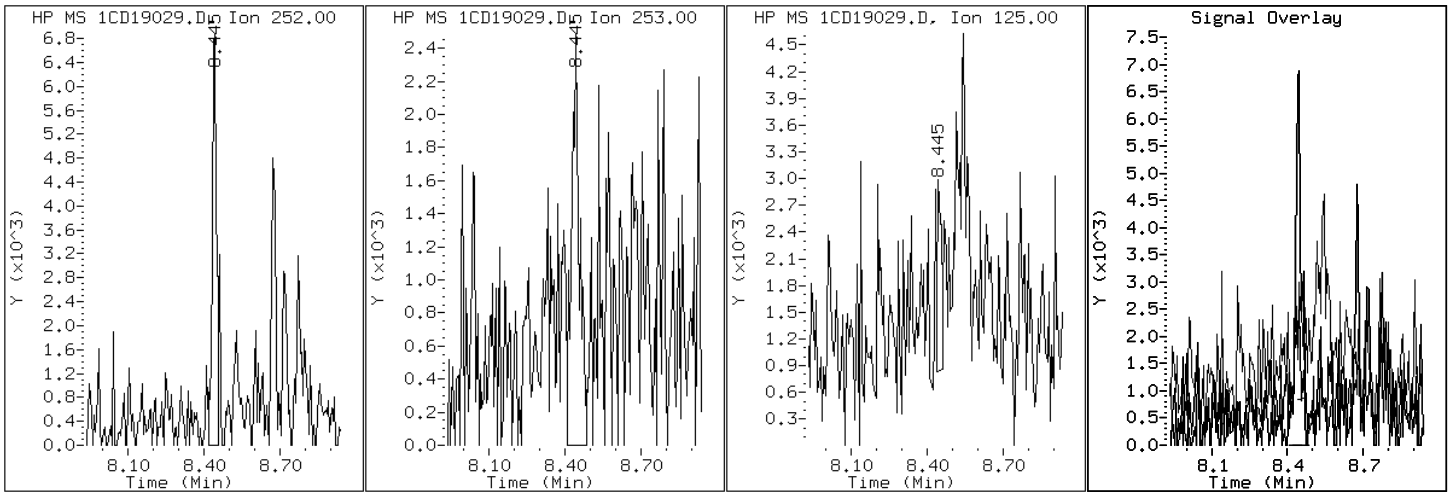
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



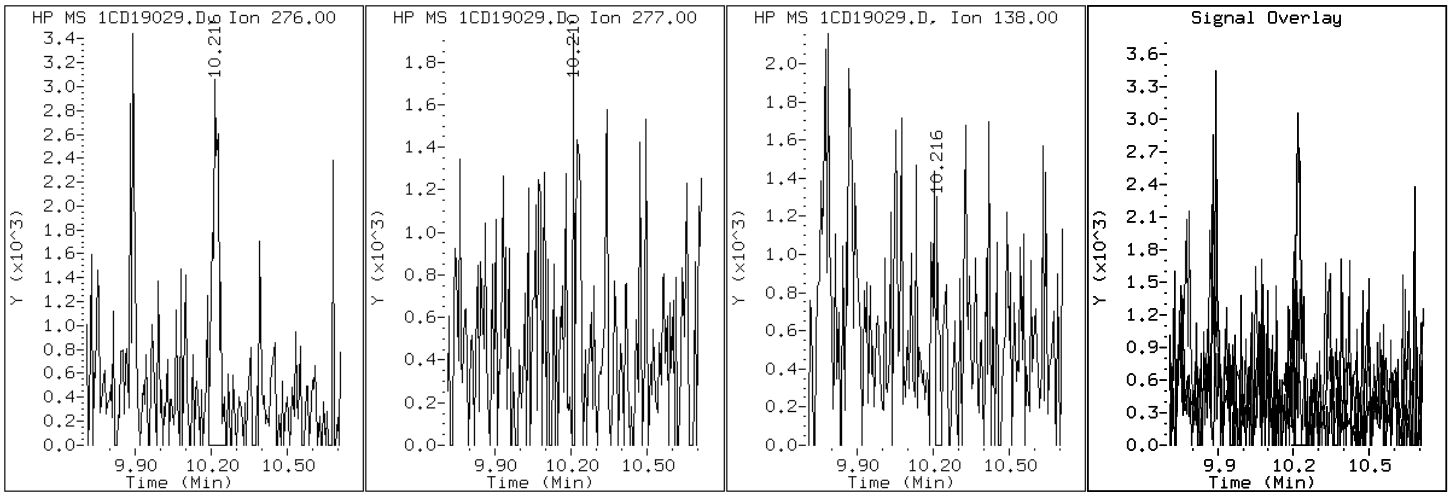
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



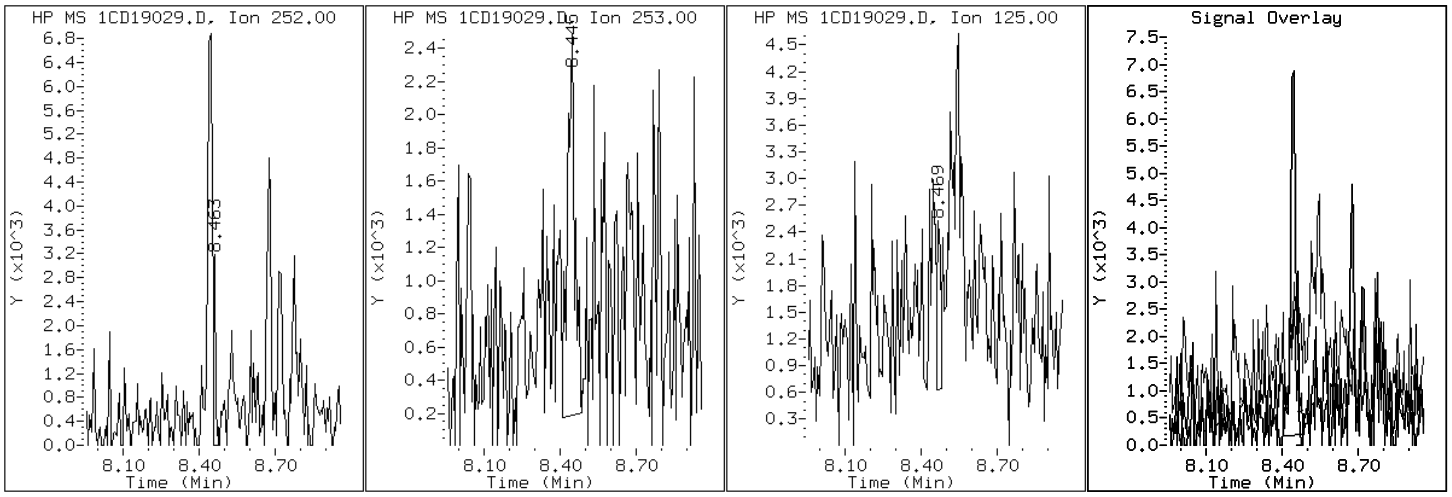
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



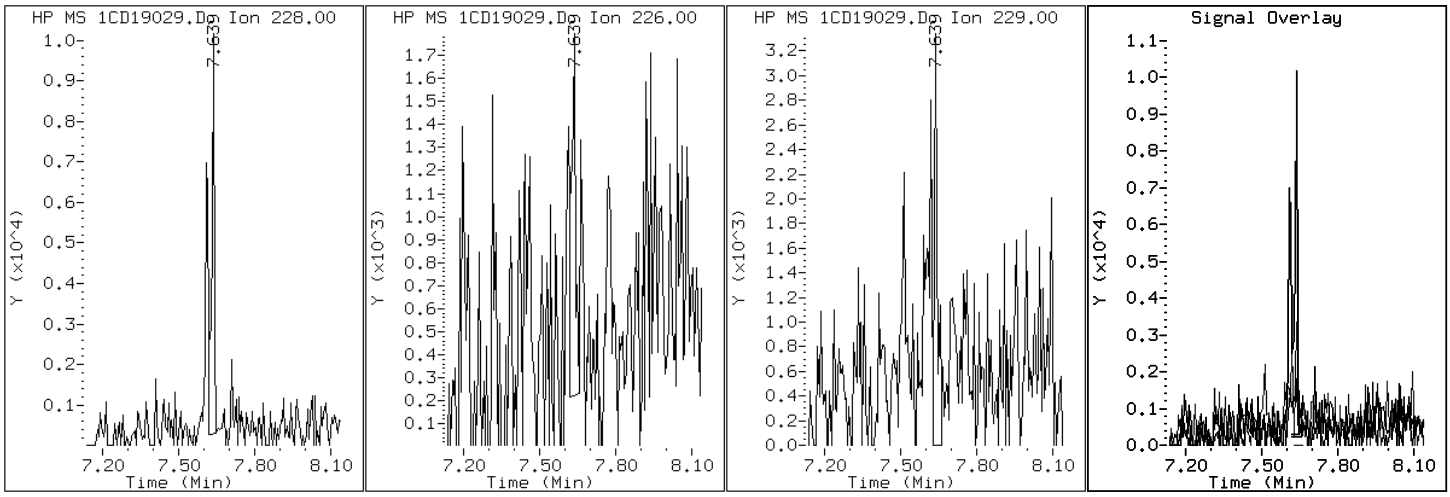
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

19 Chrysene



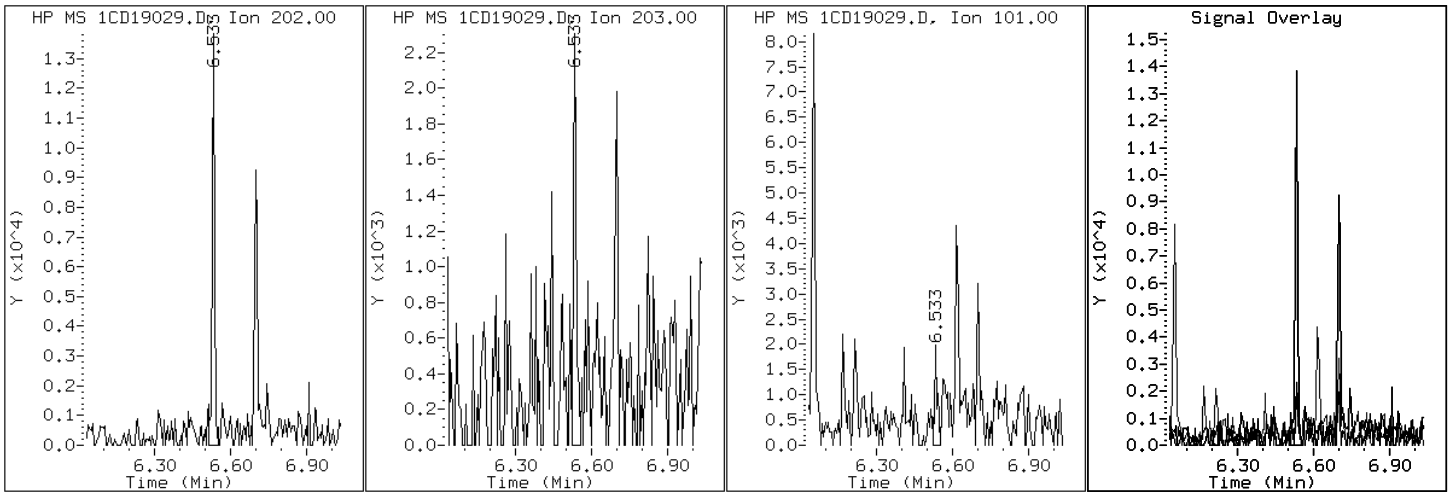
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

15 Fluoranthene



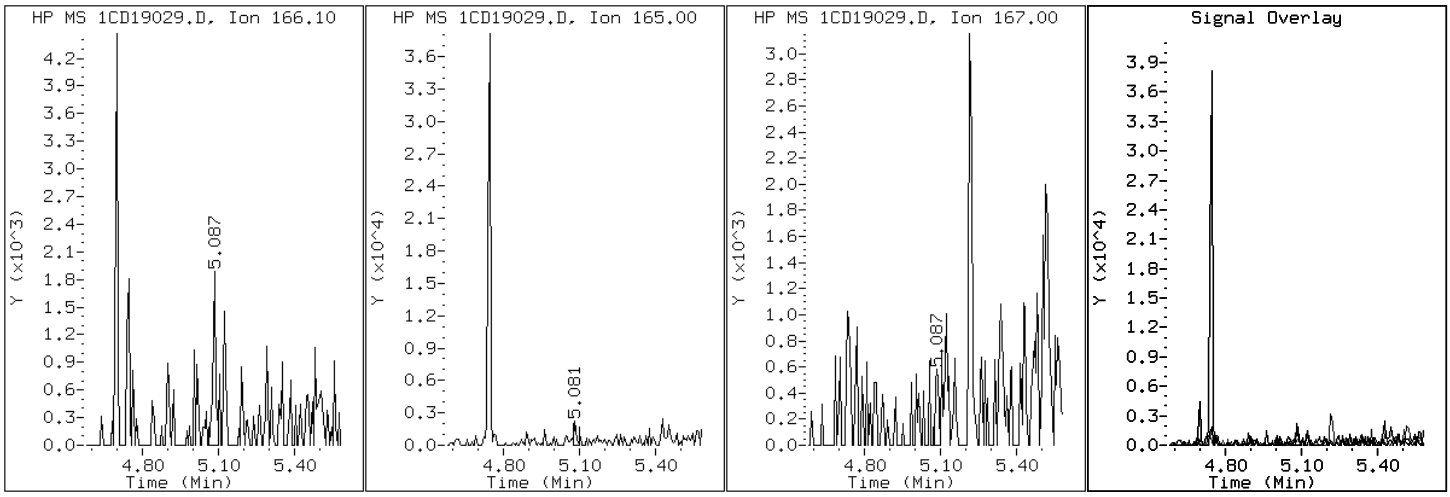
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

9 Fluorene



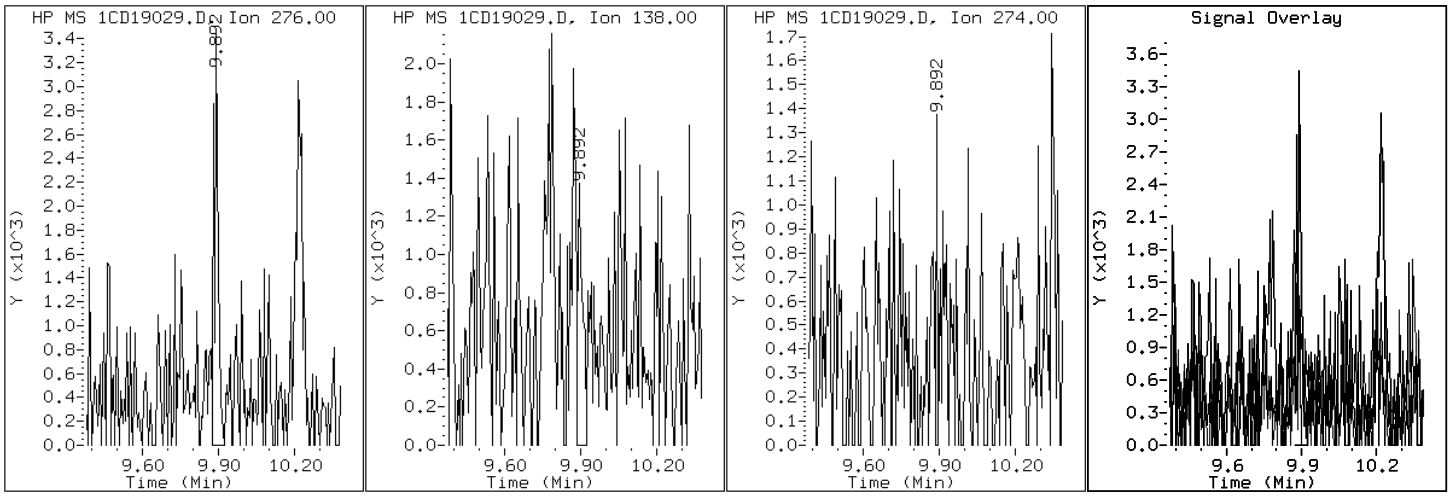
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

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



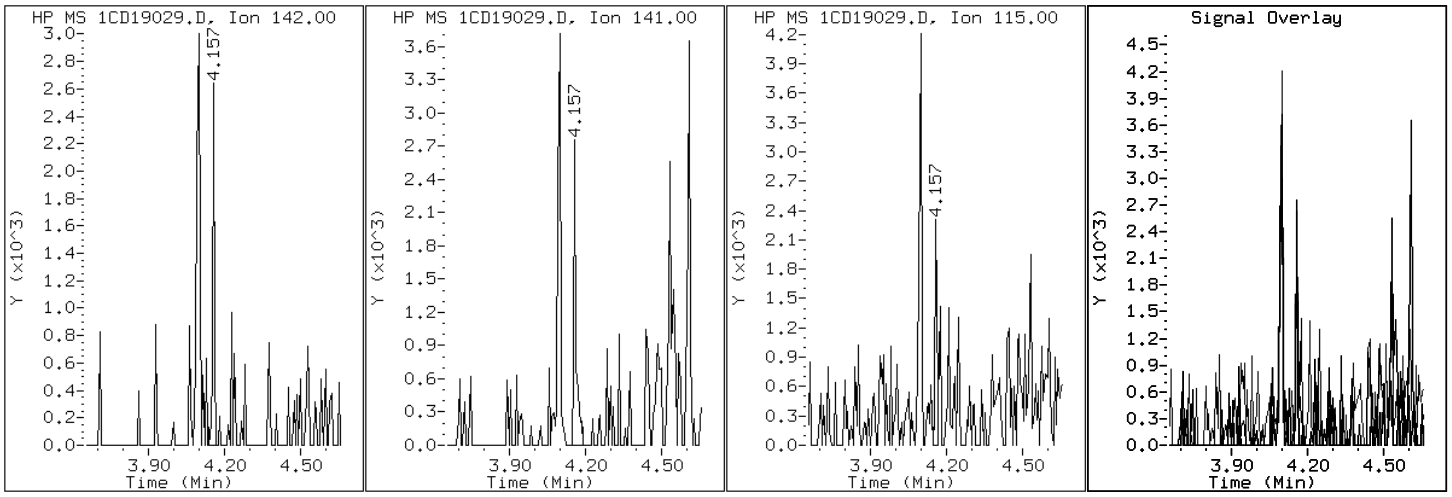
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

4 1-Methylnaphthalene



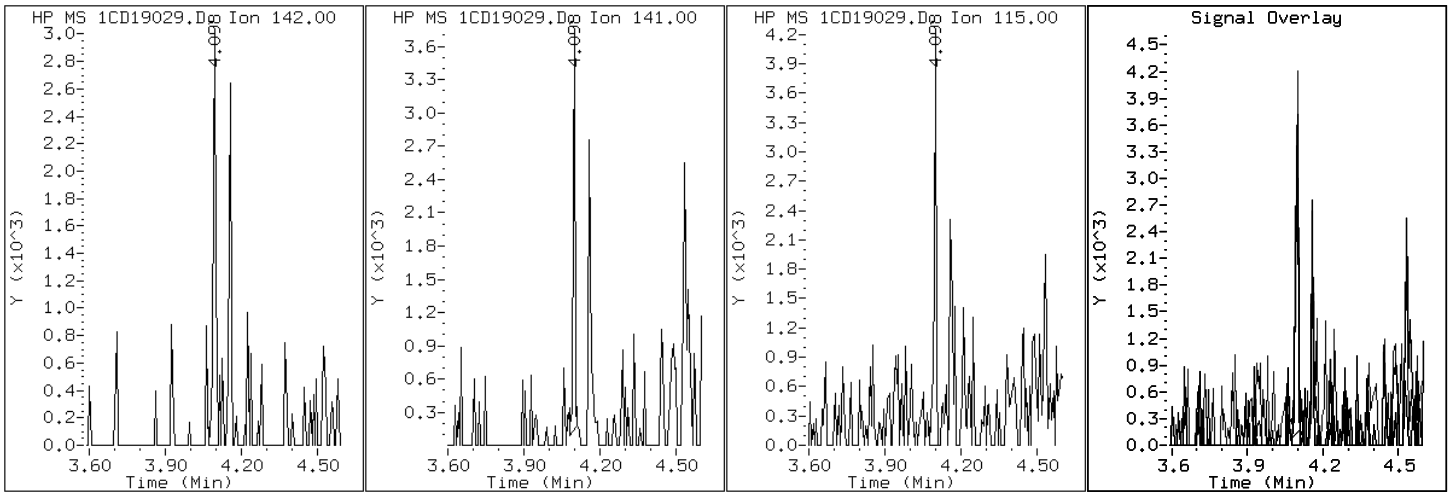
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

3 2-Methylnaphthalene



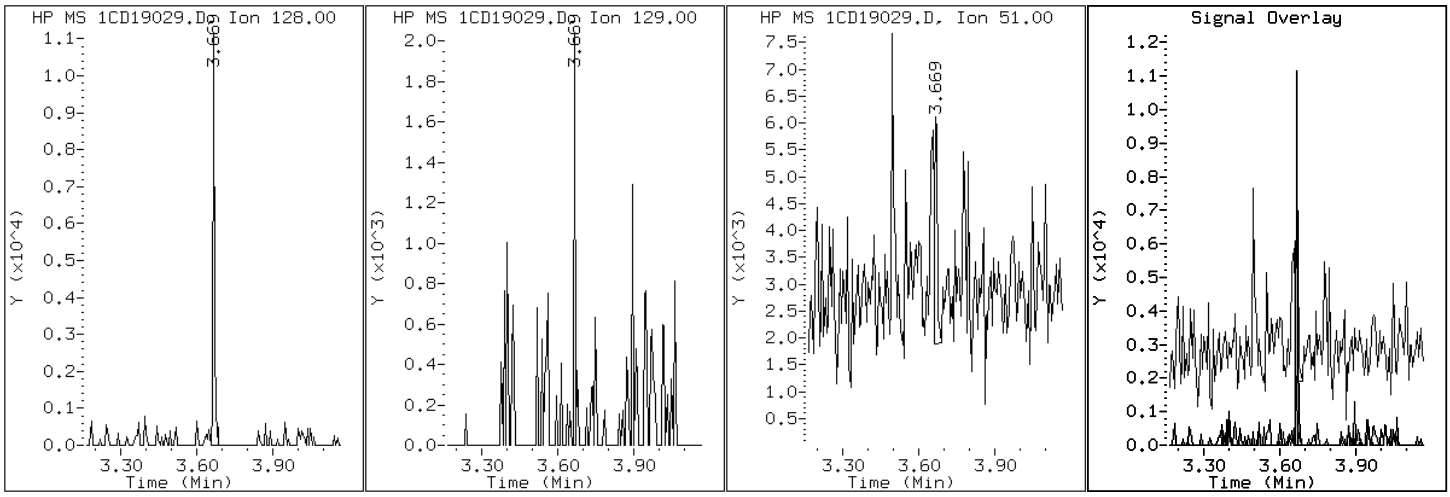
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

2 Naphthalene



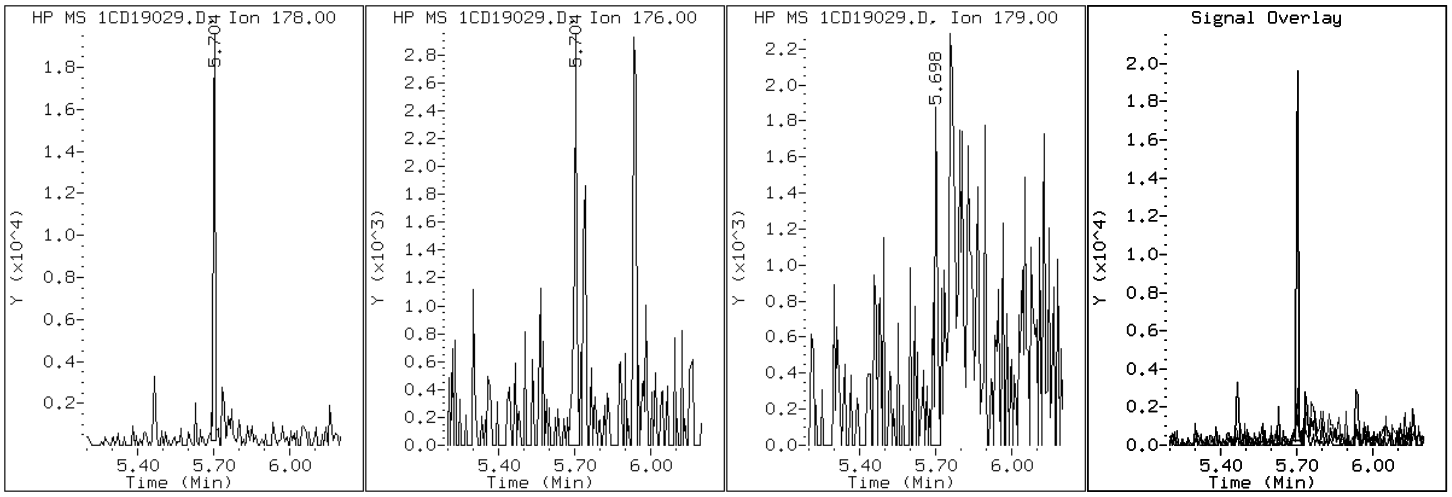
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

11 Phenanthrene



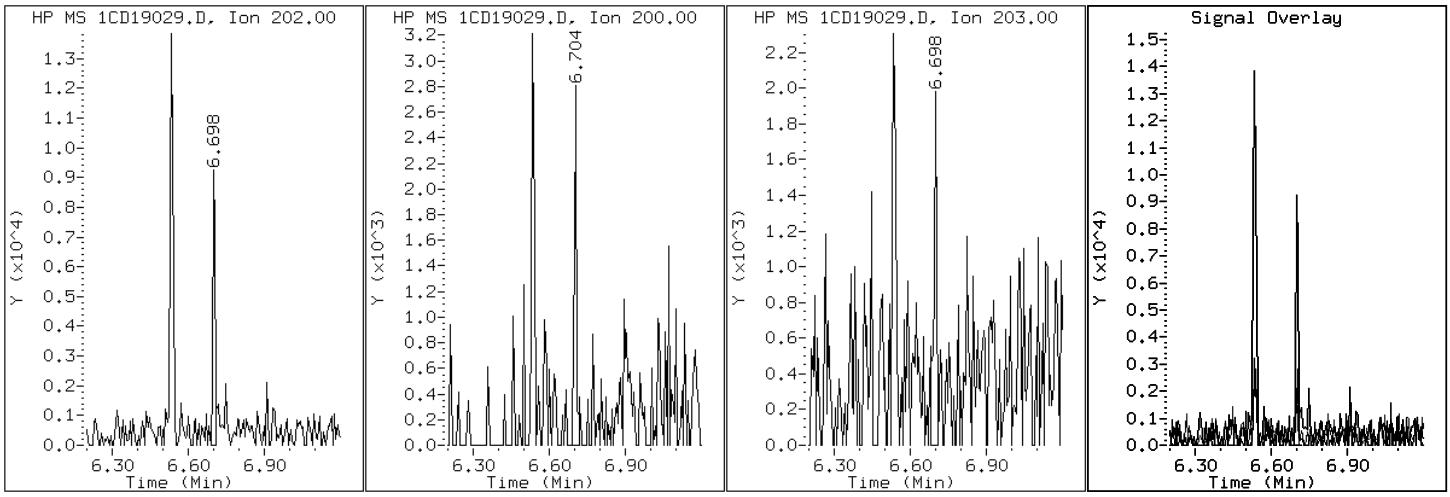
Data File: 1CD19029.D

Date: 19-APR-2013 19:42

Client ID: HP0083B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19029.D
Inj. Date and Time: 19-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: HP0083B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/22/2013

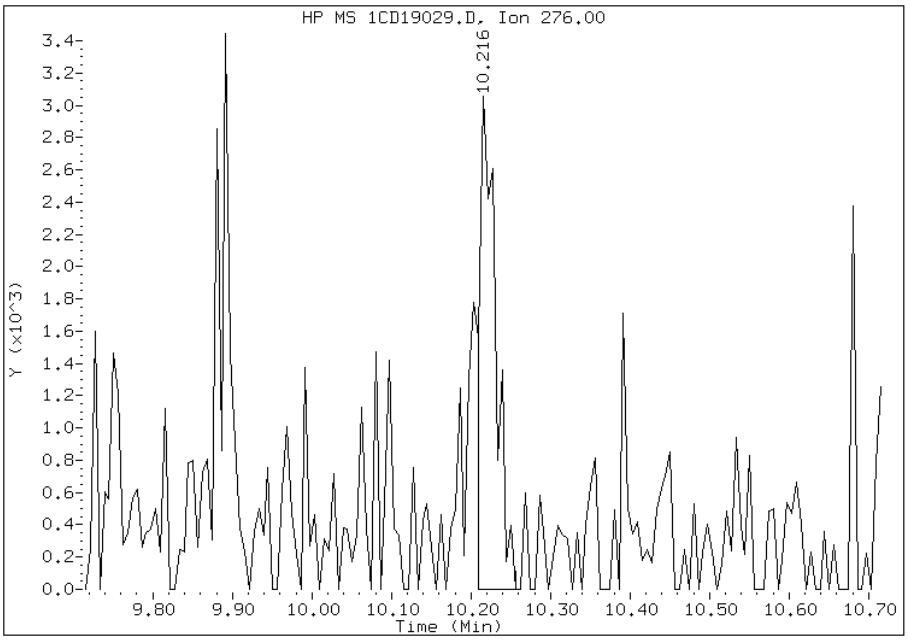
Processing Integration Results

RT: 10.22

Response: 4371

Amount: 1

Conc: 52



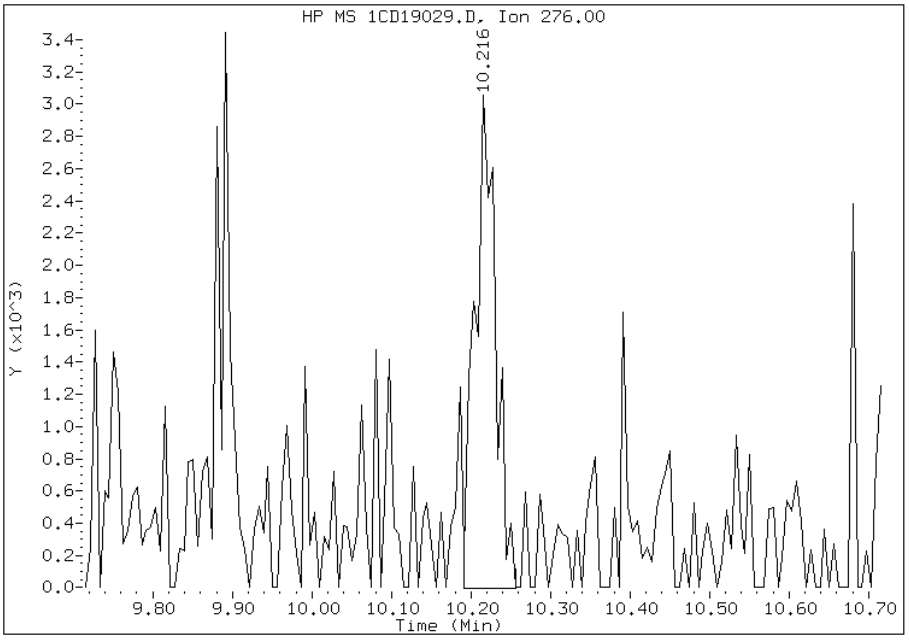
Manual Integration Results

RT: 10.22

Response: 5547

Amount: 1

Conc: 66



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:11
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0202A-CS-SP | Lab Sample ID: 680-89328-6

Matrix: Solid | Lab File ID: 1CD19030.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 10:52

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.24(g) | Date Analyzed: 04/19/2013 20:00

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

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

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	40	J	130	27
208-96-8	Acenaphthylene	29	J	53	6.6
120-12-7	Anthracene	75		11	5.6
56-55-3	Benzo[a]anthracene	380		11	5.2
50-32-8	Benzo[a]pyrene	350		14	6.9
205-99-2	Benzo[b]fluoranthene	700		16	8.1
191-24-2	Benzo[g,h,i]perylene	270		27	5.8
207-08-9	Benzo[k]fluoranthene	190		11	4.8
218-01-9	Chrysene	510		12	6.0
53-70-3	Dibenz(a,h)anthracene	110		27	5.4
206-44-0	Fluoranthene	830		27	5.3
86-73-7	Fluorene	45		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	280		27	9.4
90-12-0	1-Methylnaphthalene	180		53	5.8
91-57-6	2-Methylnaphthalene	260		53	9.4
91-20-3	Naphthalene	190		53	5.8
85-01-8	Phenanthrene	610		11	5.2
129-00-0	Pyrene	700		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19030.D
Lab Smp Id: 680-89328-A-6-A Client Smp ID: HP0202A-CS-SP
Inj Date : 19-APR-2013 20:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-6-a
Misc Info : 680-89328-A-6-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	25.775	% 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	3.657	3.657	(1.000)	241079	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	177493	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	317926	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	35960	7.52003	664.7913
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	337392	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	321755	40.0000	
	2 Naphthalene	128	3.668	3.669	(1.003)	13743	2.10888	186.4305
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	11614	2.93748	259.6811
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	8384	2.01410	178.0523
	5 Acenaphthylene	152	4.663	4.657	(0.983)	2477	0.32934	29.1148
	7 Acenaphthene	154	4.763	4.763	(1.004)	2067	0.45604	40.3151
	9 Fluorene	166	5.086	5.080	(1.072)	2921	0.50642	44.7689(Q)
	11 Phenanthrene	178	5.704	5.698	(1.003)	63820	6.84942	605.5074
	12 Anthracene	178	5.733	5.733	(1.008)	7863	0.85192	75.3121

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	9820	1.14238	100.9892
15 Fluoranthene	202	6.533	6.533	(1.149)	96970	9.40216	831.1771
16 Pyrene	202	6.704	6.698	(0.880)	75865	7.90388	698.7251
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	40808	4.27722	378.1178
19 Chrysene	228	7.639	7.639	(1.002)	54543	5.77895	510.8754
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	64265	7.90787	699.0780(M)
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.964)	20146	2.19078	193.6710(QMH)
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	33140	3.94502	348.7510
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.880	(1.127)	21216	3.18155	281.2575(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.892	(1.129)	6838	1.27696	112.8869
26 Benzo(g,h,i)perylene	276	10.221	10.209	(1.165)	24151	3.06727	271.1549

QC Flag Legend

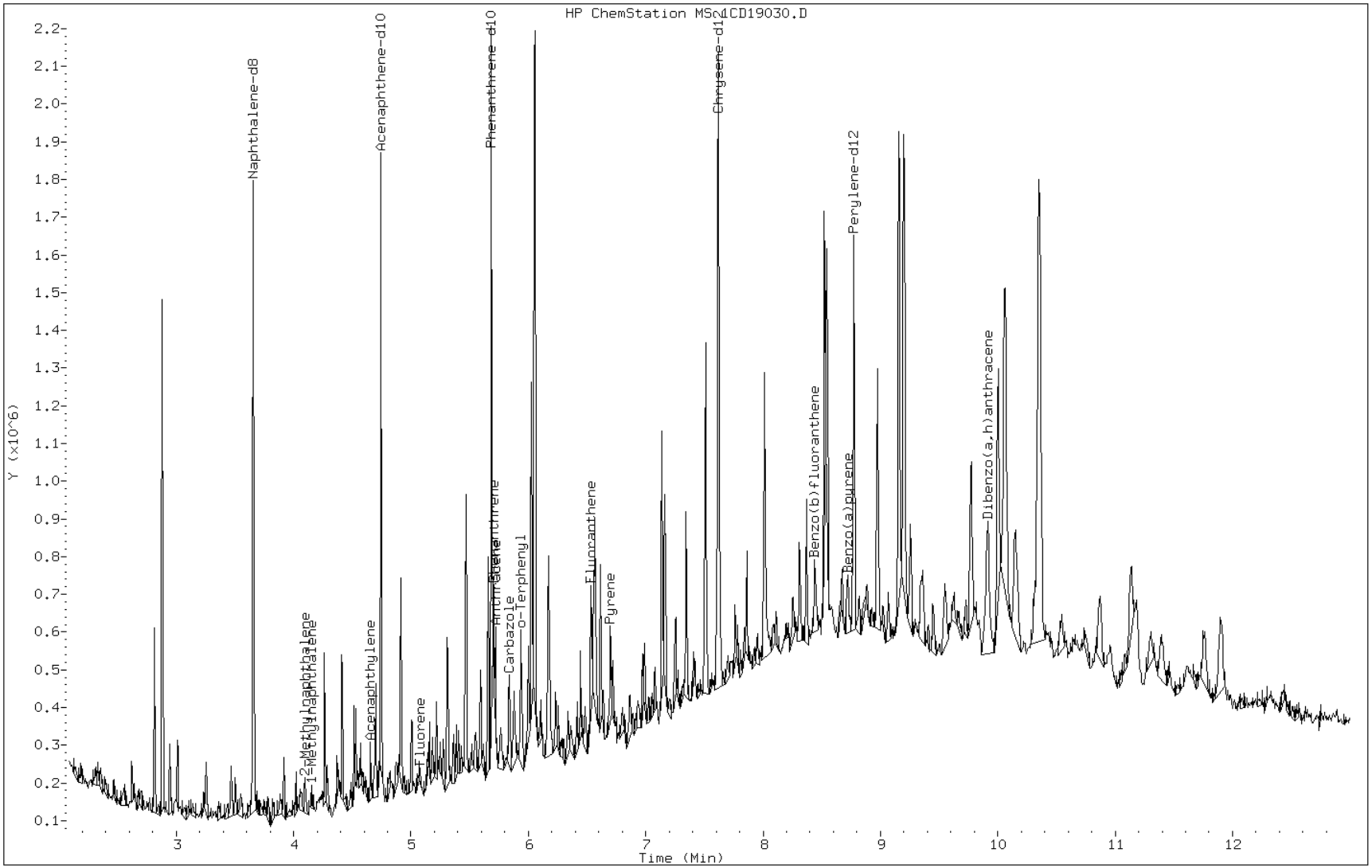
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC



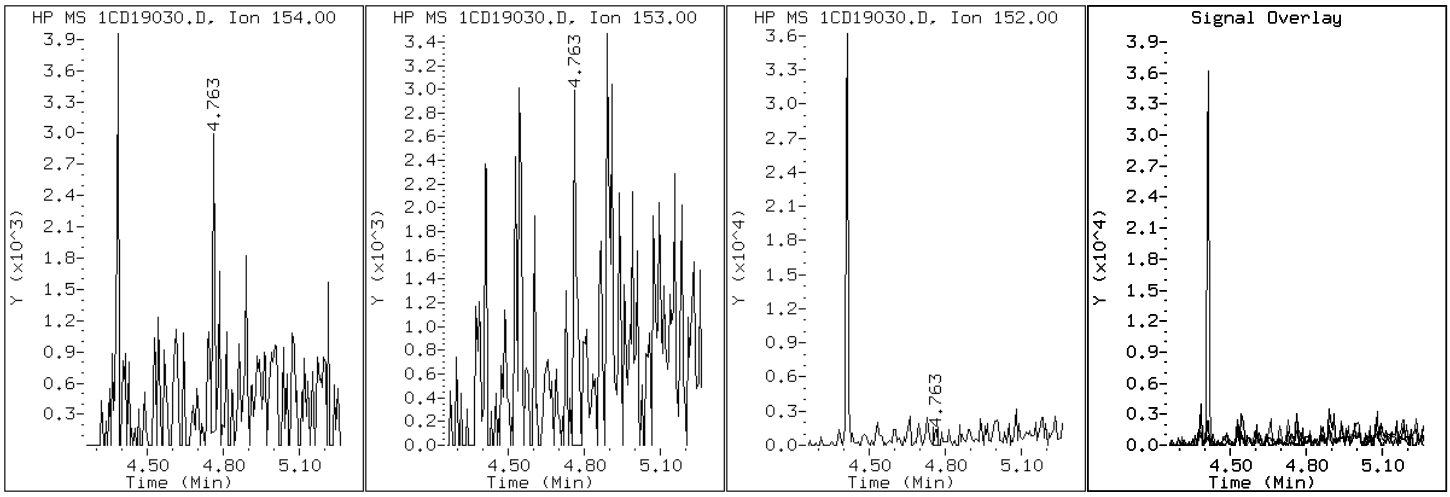
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

7 Acenaphthene



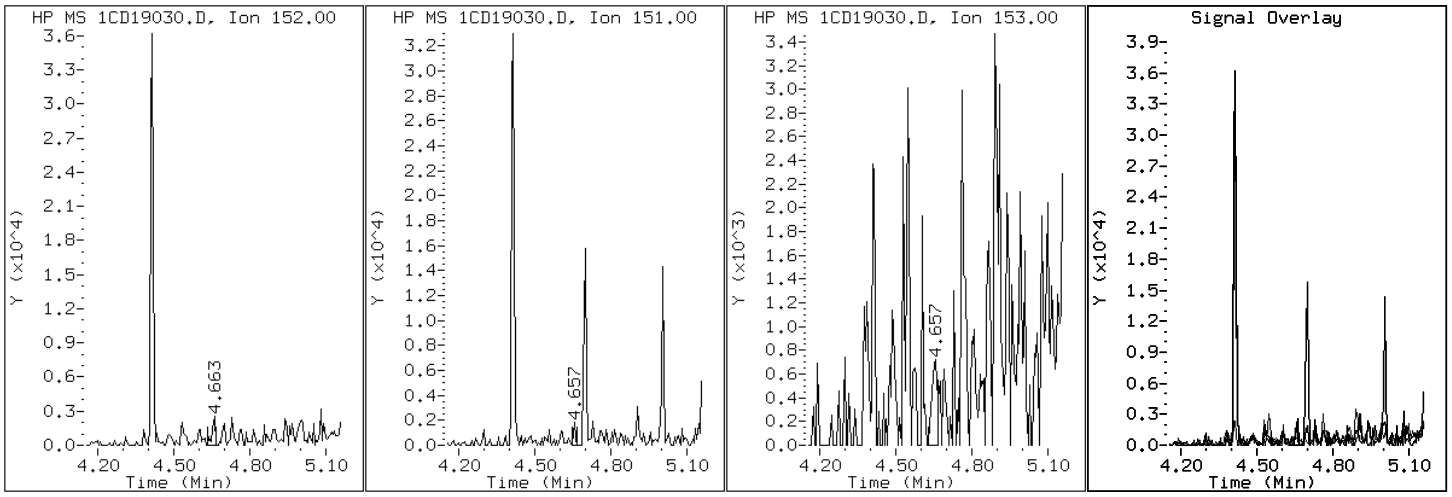
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

5 Acenaphthylene



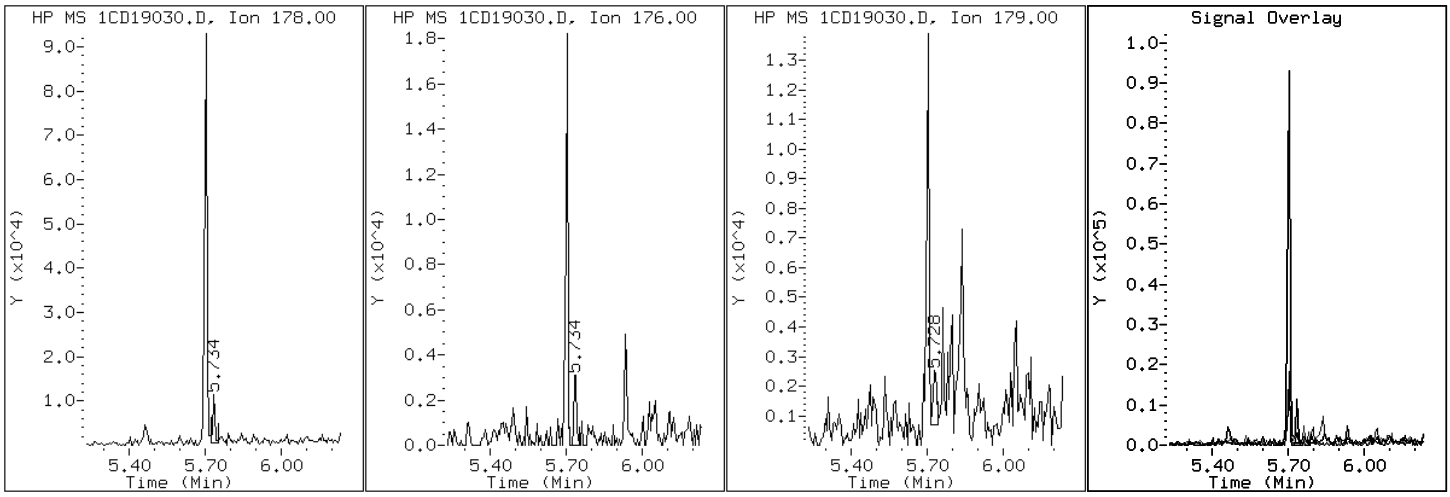
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

12 Anthracene



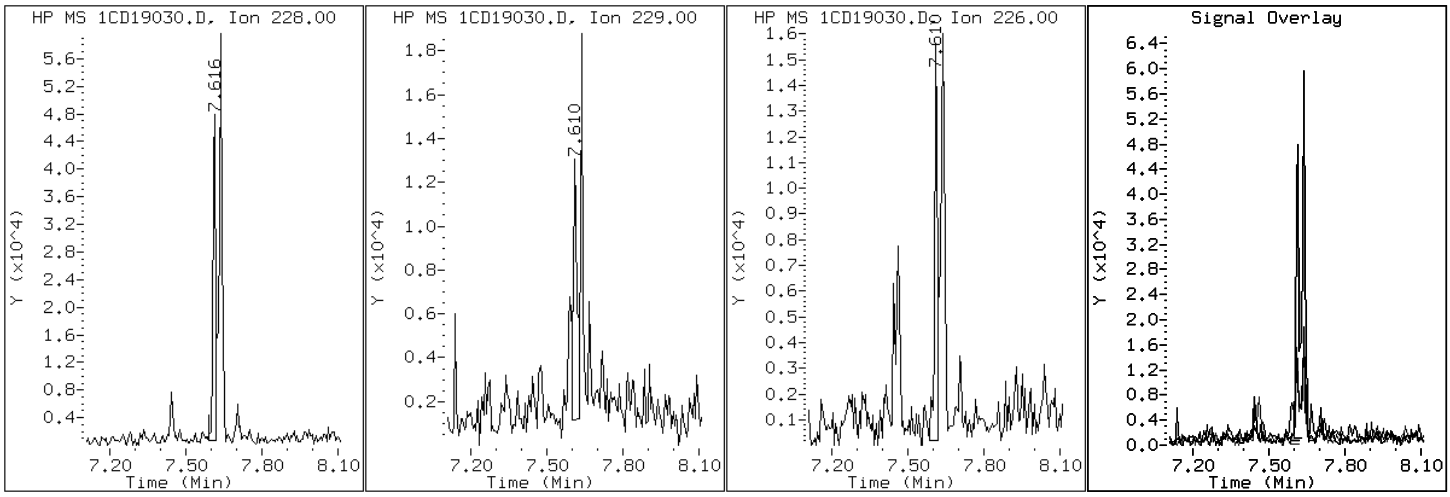
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

17 Benzo(a)anthracene



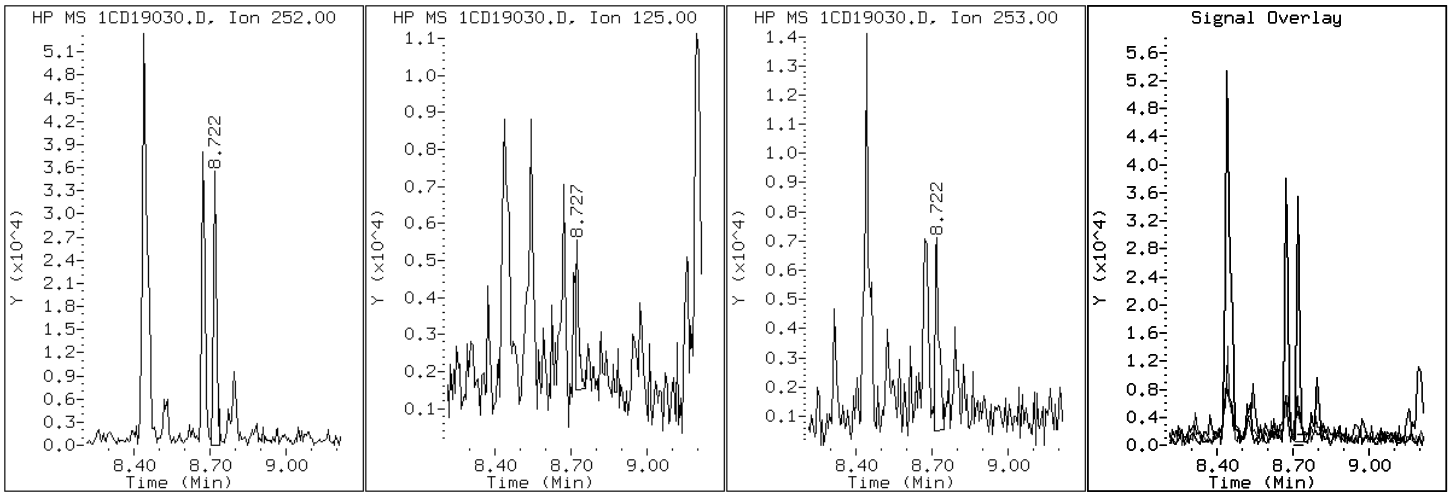
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

22 Benzo(a)pyrene



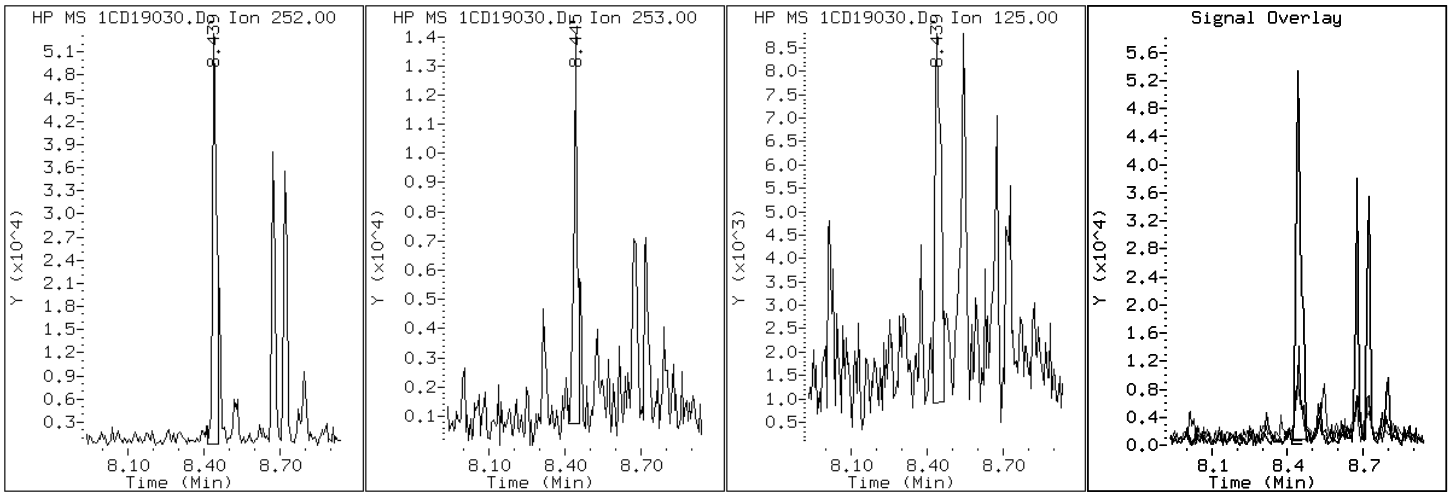
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



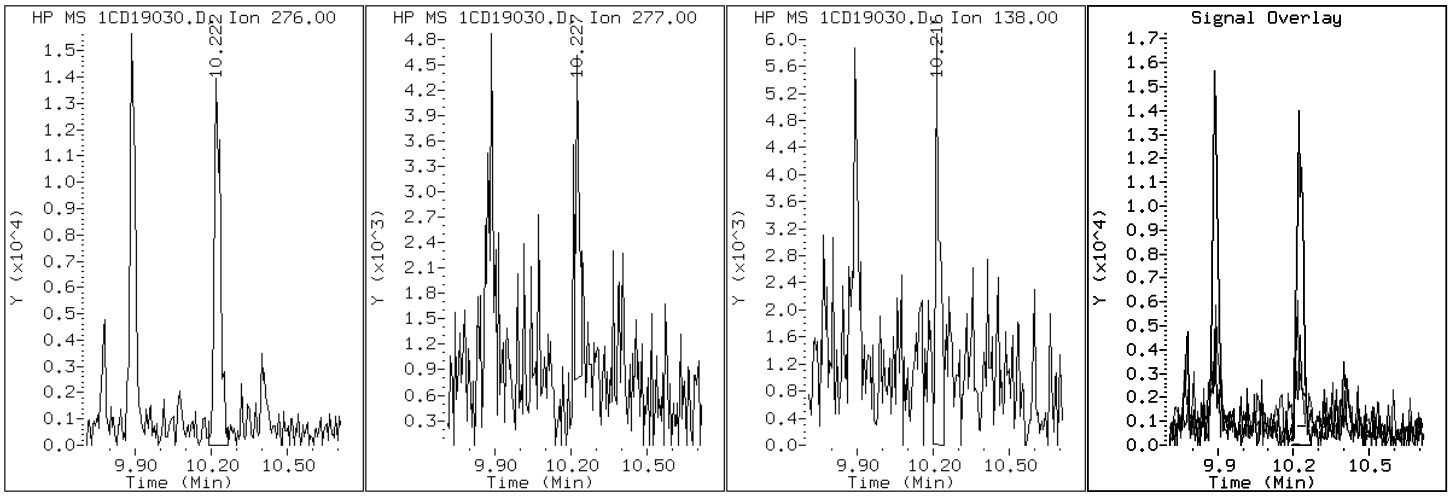
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



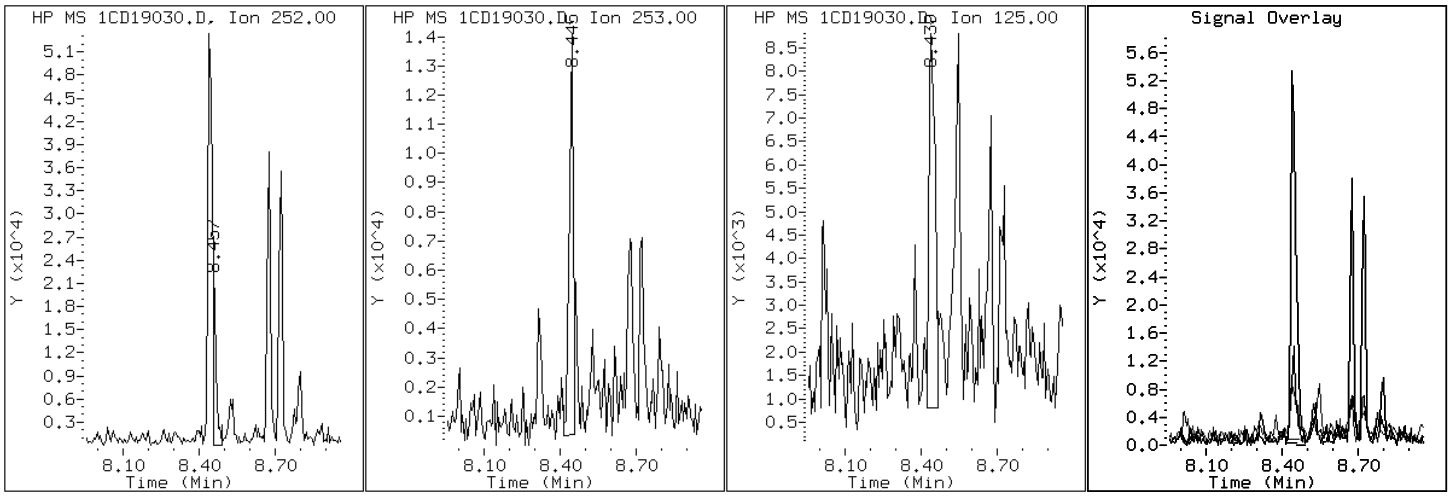
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



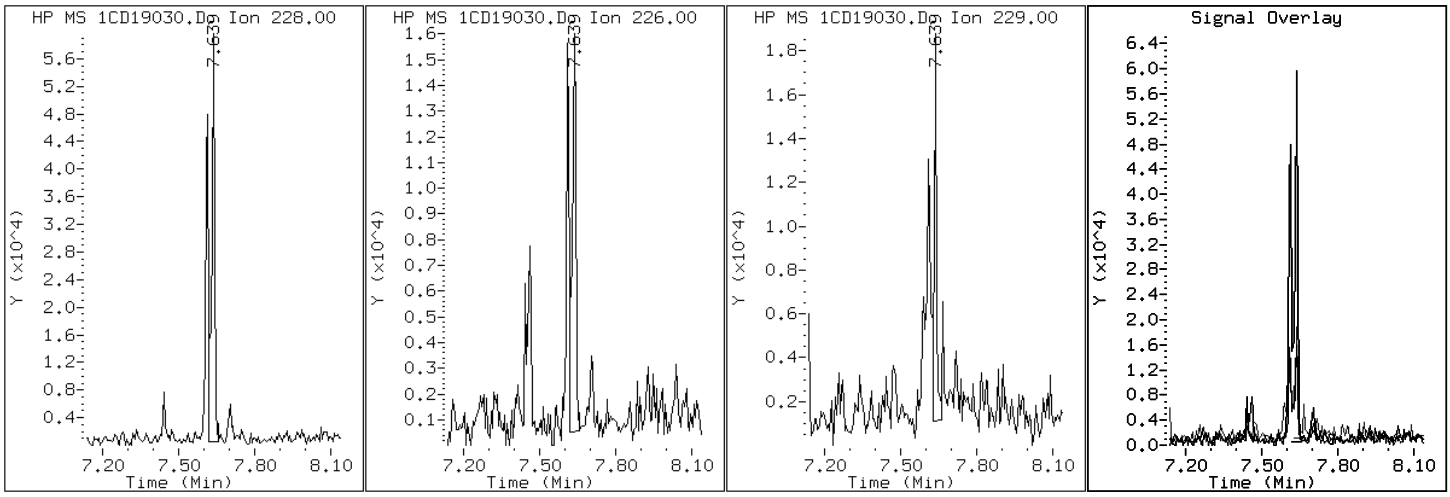
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

19 Chrysene



Data File: 1CD19030.D

Date: 19-APR-2013 20:00

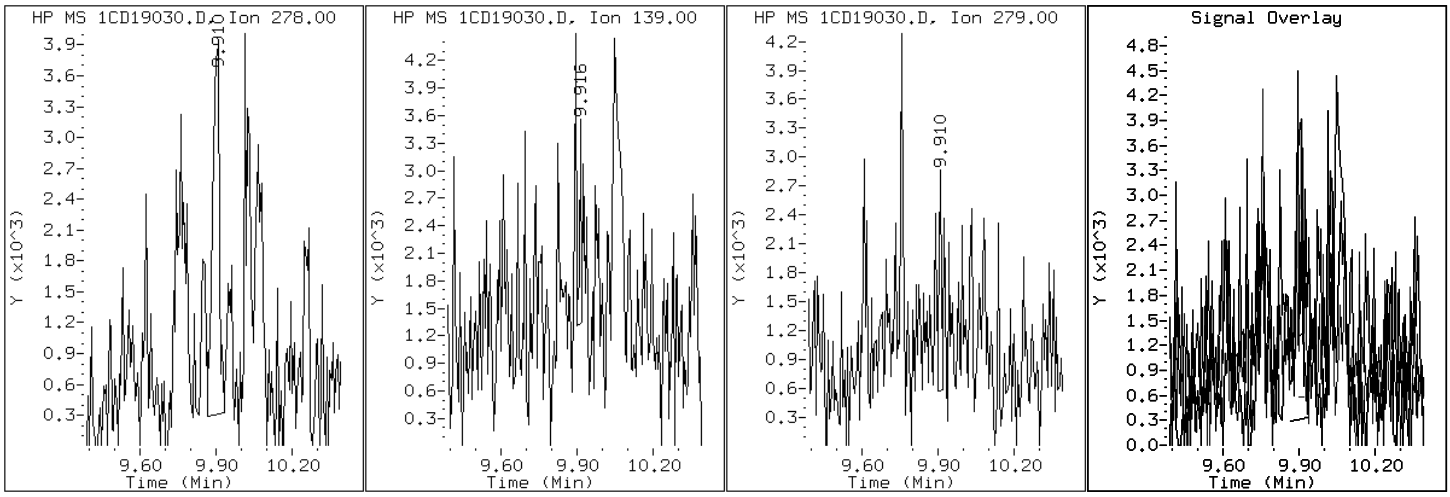
Client ID: HP0202A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a

Operator: SCC

25 Dibenzo(a,h)anthracene



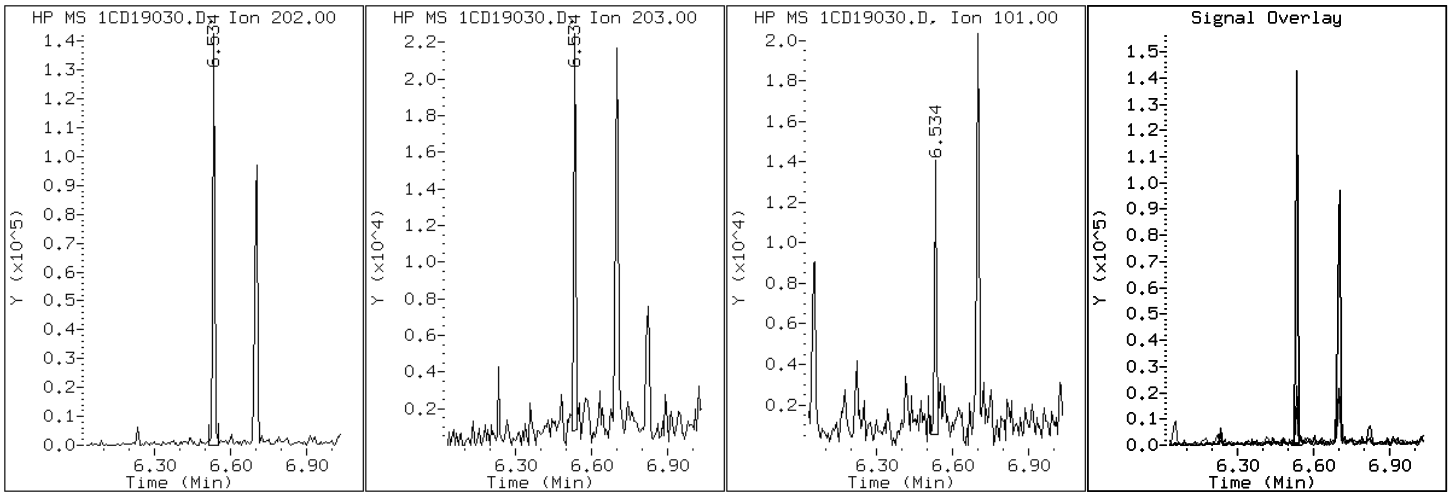
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

15 Fluoranthene



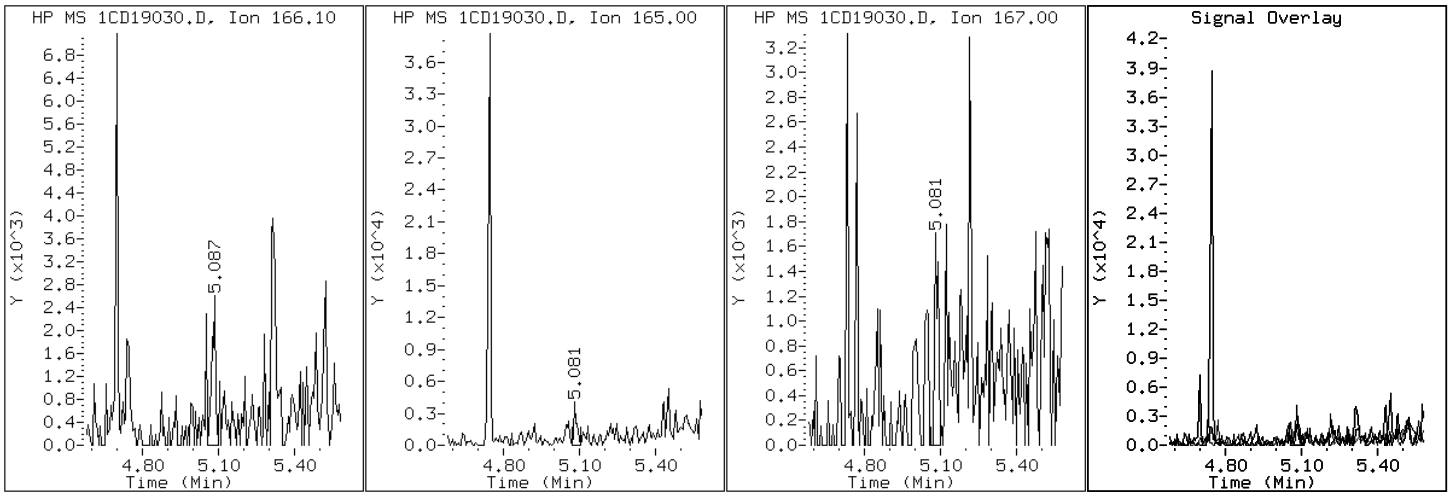
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

9 Fluorene



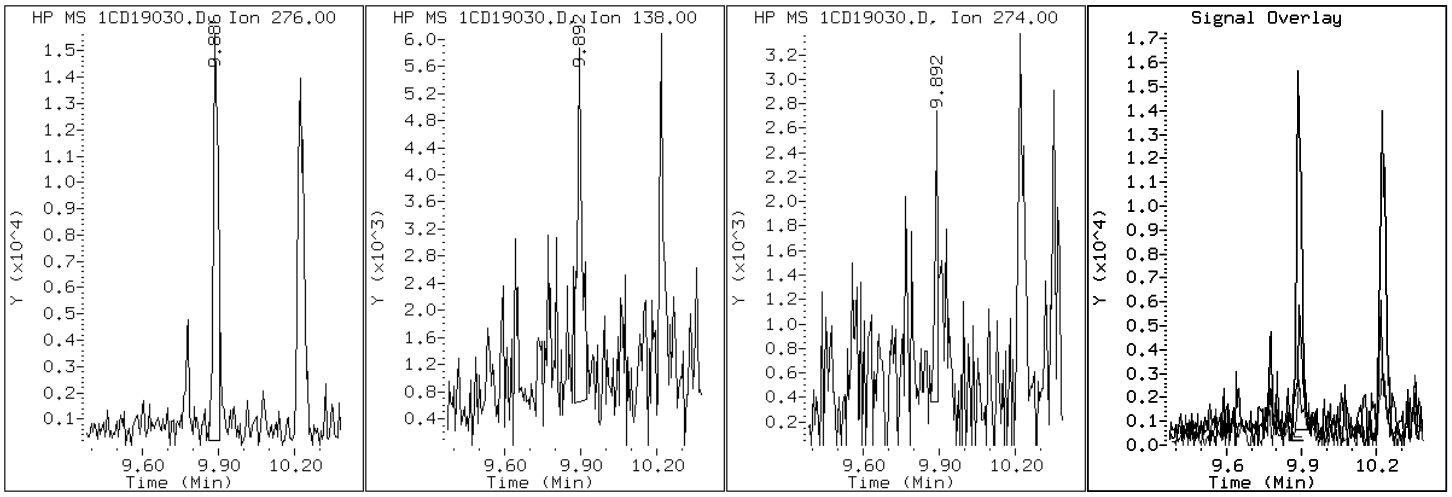
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

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



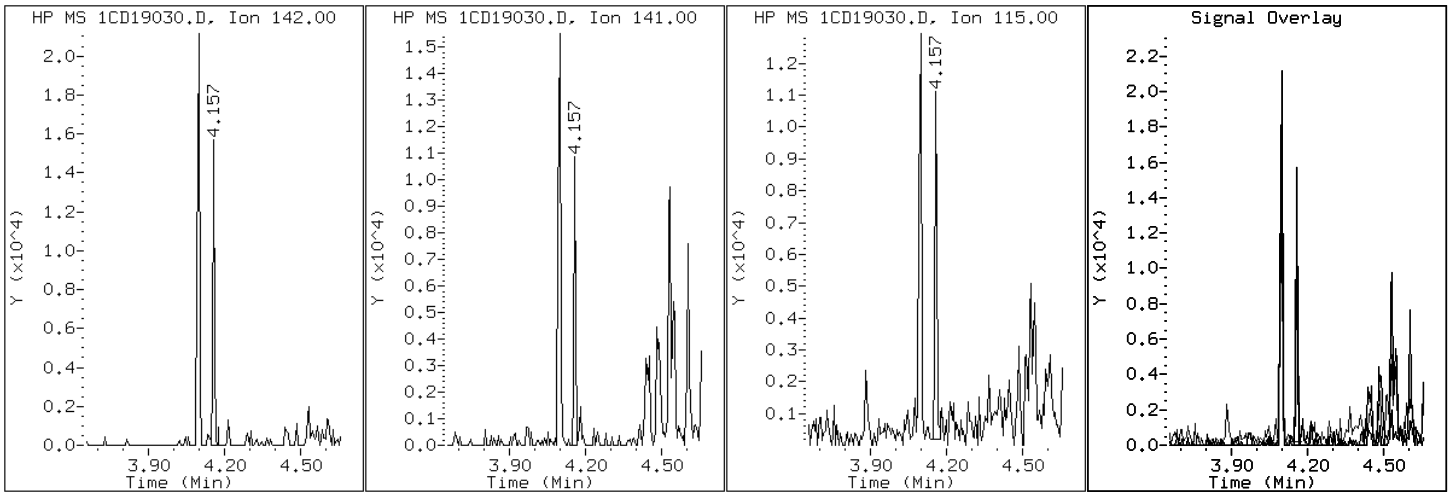
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

4 1-Methylnaphthalene



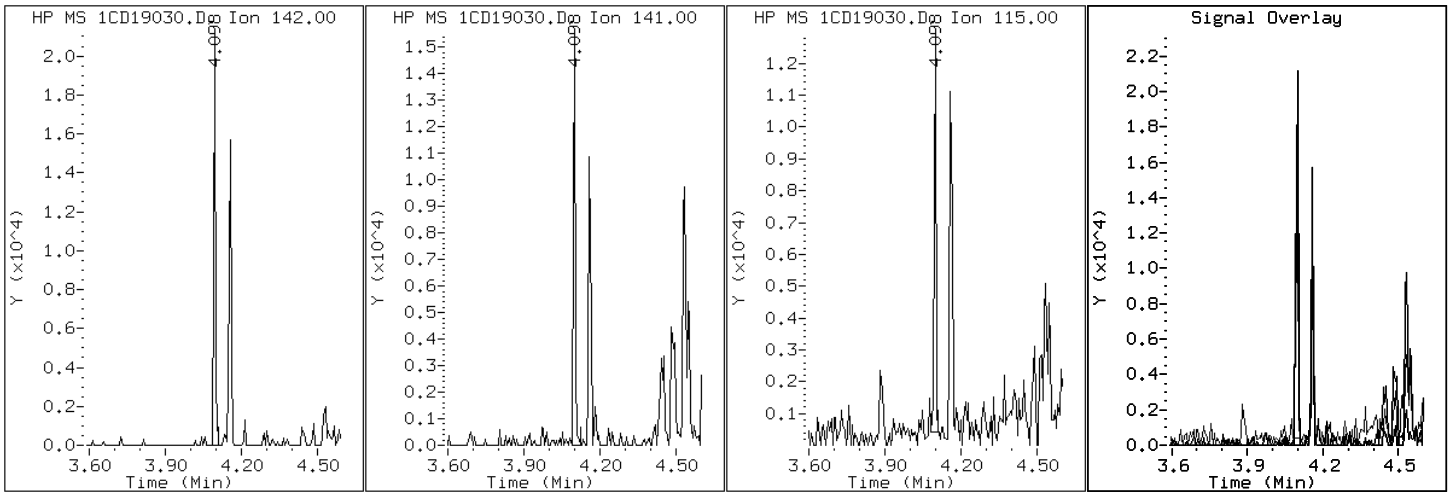
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

3 2-Methylnaphthalene



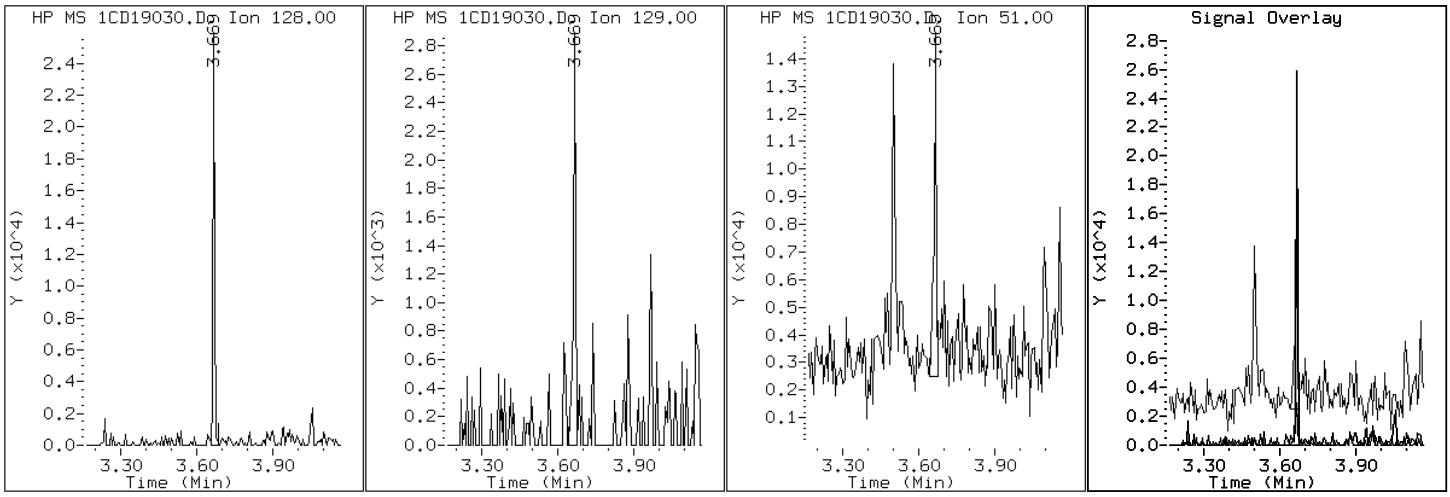
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

2 Naphthalene



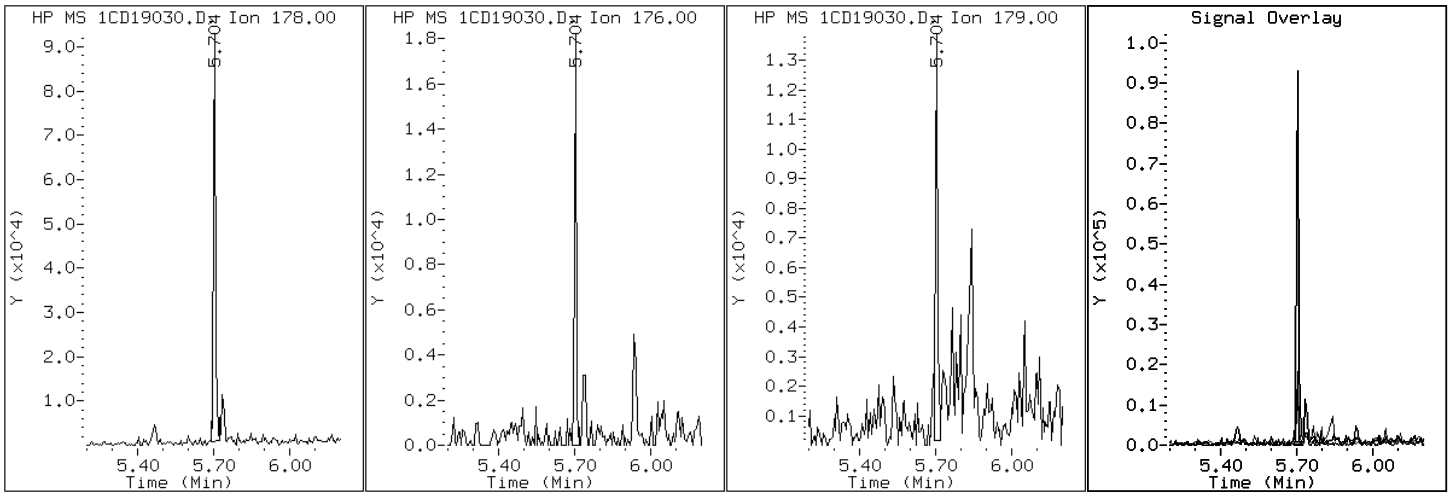
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

11 Phenanthrene



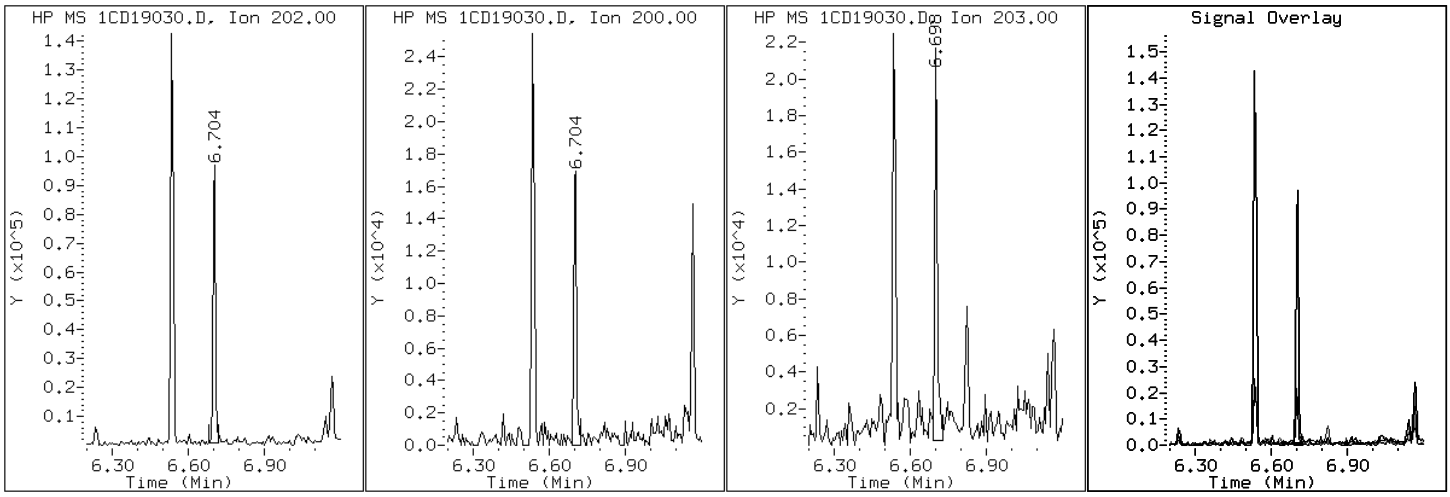
Data File: 1CD19030.D

Date: 19-APR-2013 20:00

Client ID: HP0202A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19030.D
Inj. Date and Time: 19-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: HP0202A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

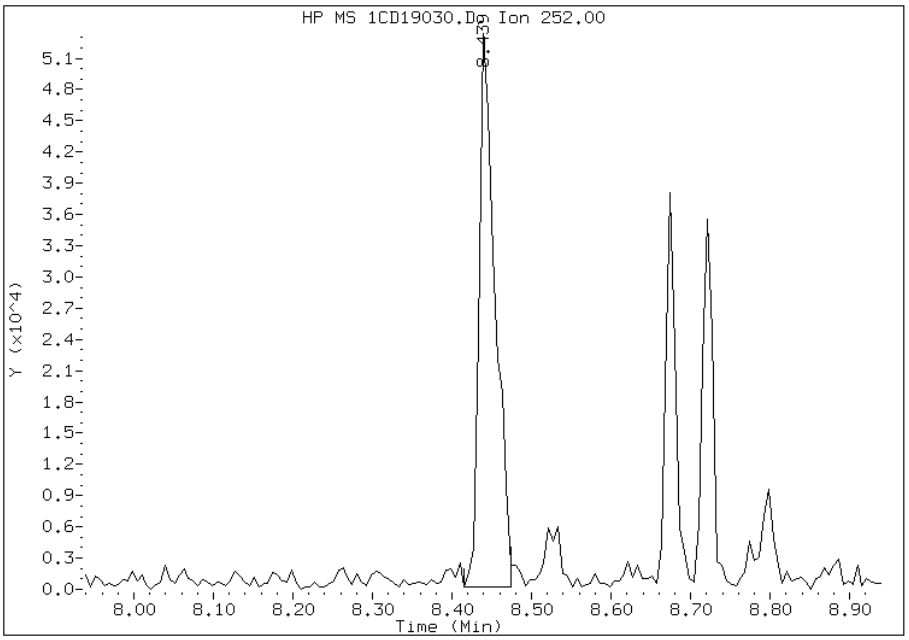
Processing Integration Results

RT: 8.44

Response: 75052

Amount: 9

Conc: 816



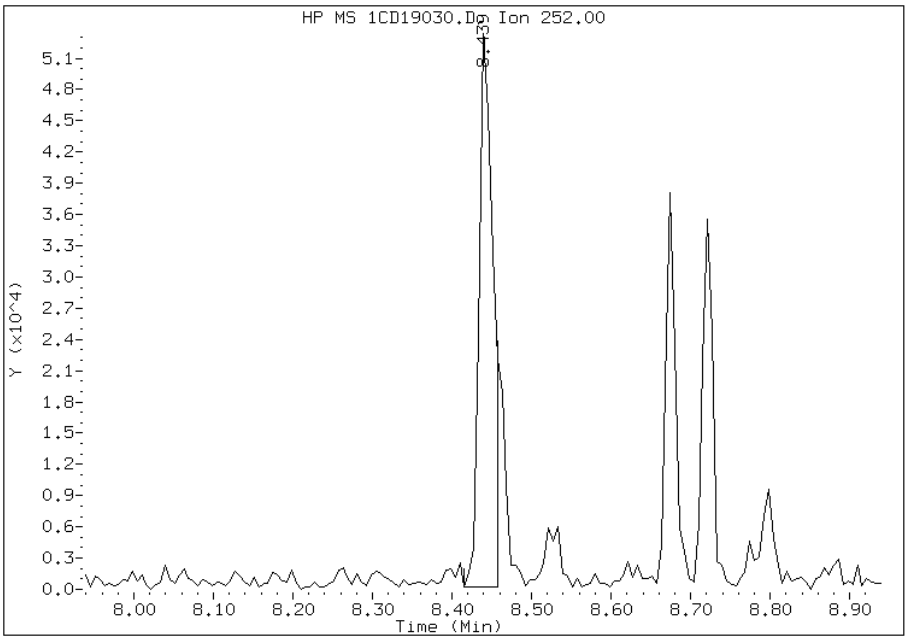
Manual Integration Results

RT: 8.44

Response: 64265

Amount: 8

Conc: 699



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19030.D
Inj. Date and Time: 19-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: HP0202A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

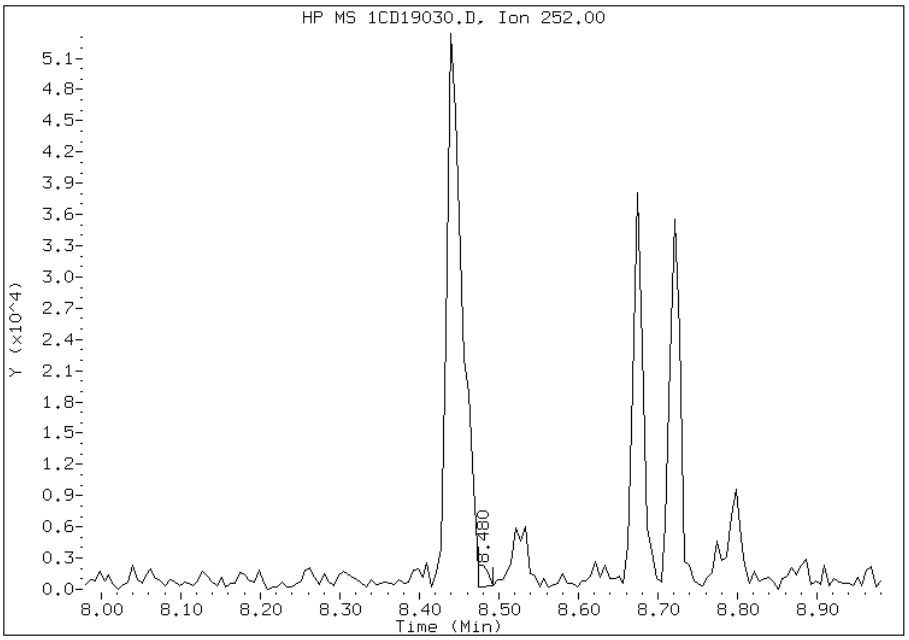
Processing Integration Results

RT: 8.48

Response: 1888

Amount: 0

Conc: 18



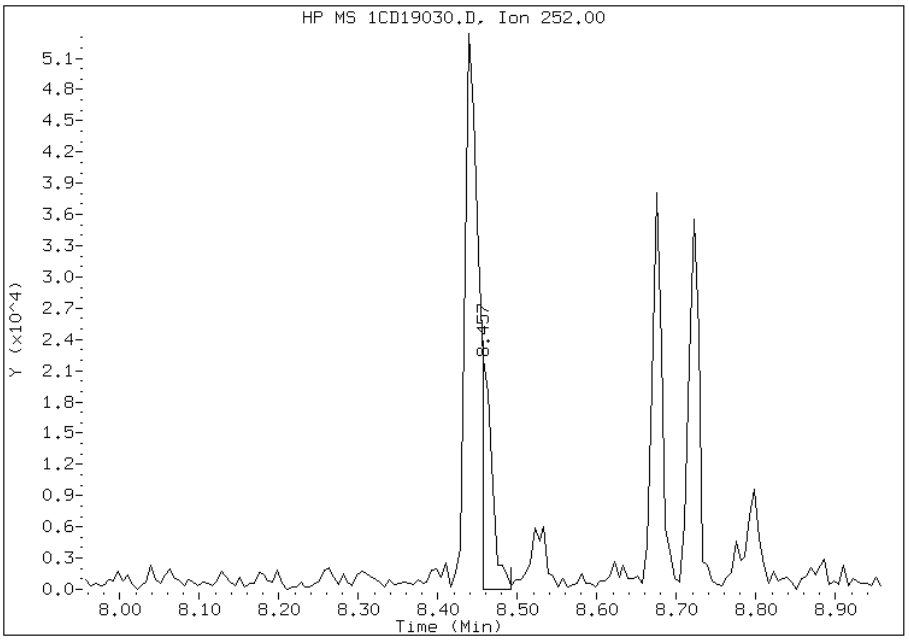
Manual Integration Results

RT: 8.46

Response: 20146

Amount: 2

Conc: 194



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19030.D
Inj. Date and Time: 19-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: HP0202A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

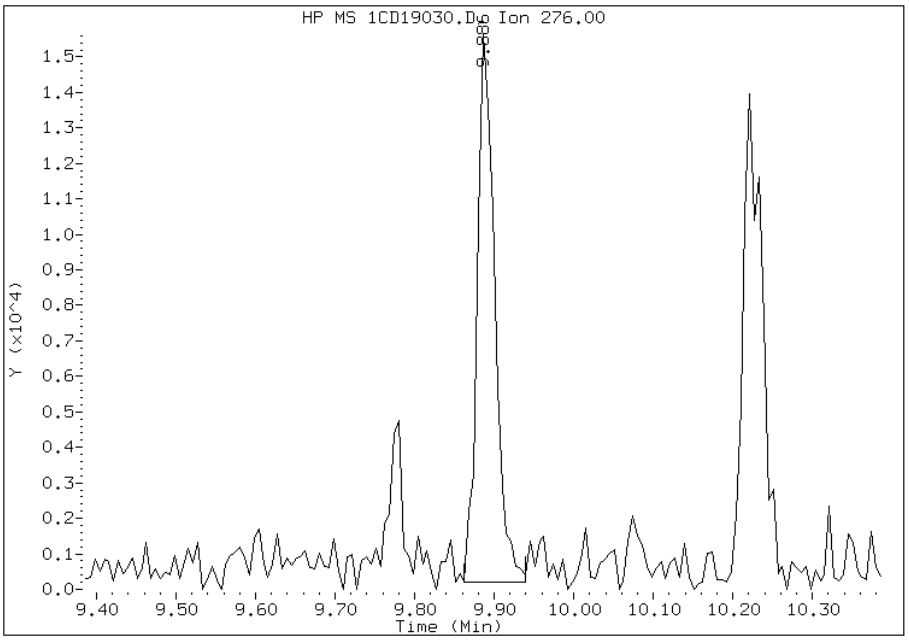
Processing Integration Results

RT: 9.89

Response: 23424

Amount: 3

Conc: 305



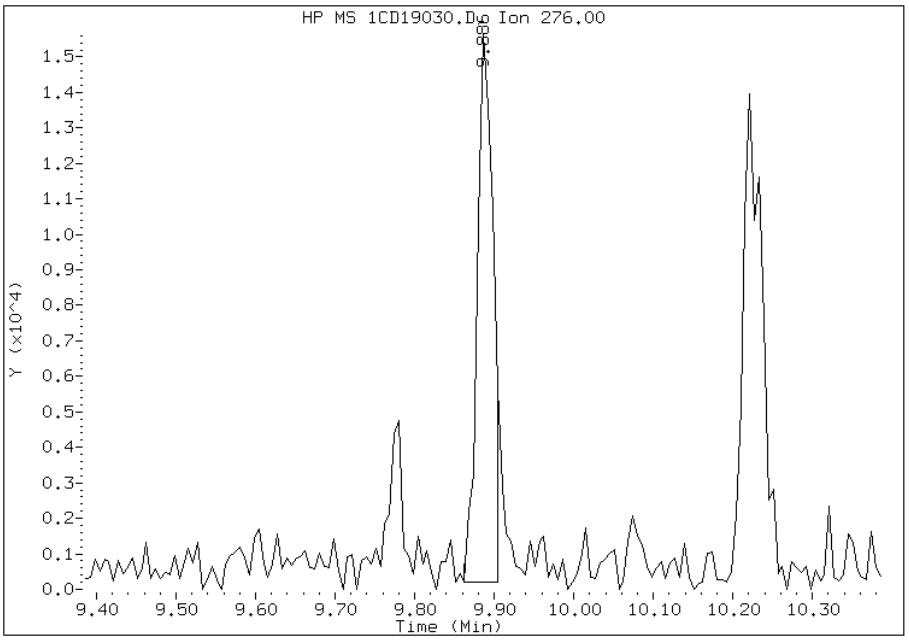
Manual Integration Results

RT: 9.89

Response: 21216

Amount: 3

Conc: 281



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0202B-CS-SP | Lab Sample ID: 680-89328-7

Matrix: Solid | Lab File ID: 1CD19031.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 11:07

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.38(g) | Date Analyzed: 04/19/2013 20:18

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

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

% Moisture: 19.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	J	120	24
208-96-8	Acenaphthylene	53		48	6.1
120-12-7	Anthracene	200		10	5.1
56-55-3	Benzo[a]anthracene	670		9.7	4.7
50-32-8	Benzo[a]pyrene	500		13	6.3
205-99-2	Benzo[b]fluoranthene	900		15	7.4
191-24-2	Benzo[g,h,i]perylene	400		24	5.3
207-08-9	Benzo[k]fluoranthene	380		9.7	4.4
218-01-9	Chrysene	640		11	5.4
53-70-3	Dibenz(a,h)anthracene	150		24	5.0
206-44-0	Fluoranthene	1300		24	4.8
86-73-7	Fluorene	130		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	340		24	8.6
90-12-0	1-Methylnaphthalene	49		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.6
91-20-3	Naphthalene	140		48	5.3
85-01-8	Phenanthrene	1000		9.7	4.7
129-00-0	Pyrene	1100		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19031.D
Lab Smp Id: 680-89328-A-7-A Client Smp ID: HP0202B-CS-SP
Inj Date : 19-APR-2013 20:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-7-a
Misc Info : 680-89328-A-7-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	19.447	% 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	3.657	3.657	(1.000)	261811	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	176582	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	320355	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	22711	4.97076	401.2212
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	355981	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	312862	40.0000	
	2 Naphthalene	128	3.668	3.669	(1.003)	12496	1.76568	142.5192
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	4875	1.30268	105.1476
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	2772	0.61319	49.4944(Q)
	5 Acenaphthylene	152	4.657	4.657	(0.981)	4922	0.65781	53.0957
	7 Acenaphthene	154	4.763	4.763	(1.004)	6231	1.38183	111.5363
	9 Fluorene	166	5.080	5.080	(1.071)	8914	1.55341	125.3858
	11 Phenanthrene	178	5.704	5.698	(1.003)	116609	12.4377	1003.9216
	12 Anthracene	178	5.739	5.733	(1.009)	22498	2.41907	195.2587

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	20162	2.32769	187.8829
15 Fluoranthene	202	6.533	6.533	(1.149)	168490	16.2128	1308.6404
16 Pyrene	202	6.704	6.698	(0.880)	134649	13.2957	1073.1772
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	84171	8.36154	674.9130
19 Chrysene	228	7.639	7.639	(1.002)	79181	7.95132	641.8010
20 Benzo(b)fluoranthene	252	8.445	8.439	(0.962)	88405	11.1875	903.0170
21 Benzo(k)fluoranthene	252	8.462	8.457	(0.964)	42481	4.75091	383.4762
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	50649	6.20070	500.4974
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	29277	4.24714	342.8135(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.892	(1.129)	11483	1.88035	151.7746
26 Benzo(g,h,i)perylene	276	10.233	10.209	(1.166)	38109	4.97756	401.7703

QC Flag Legend

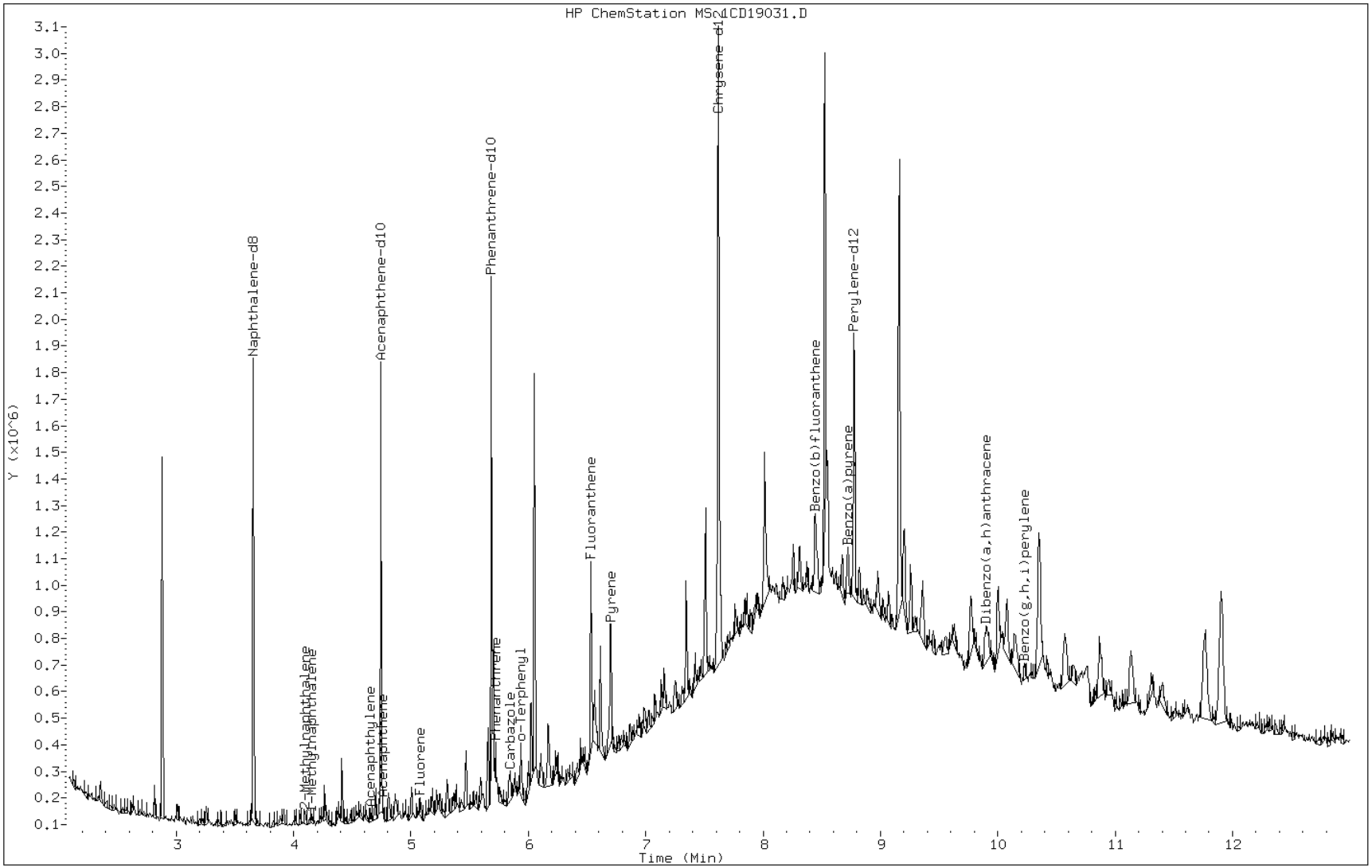
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC



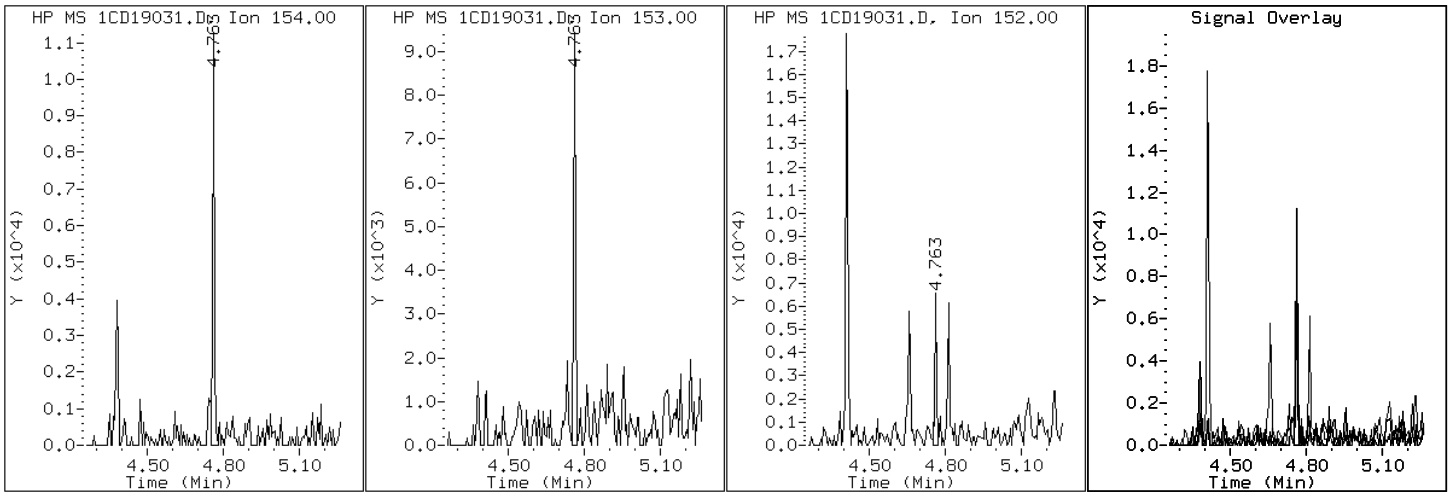
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

7 Acenaphthene



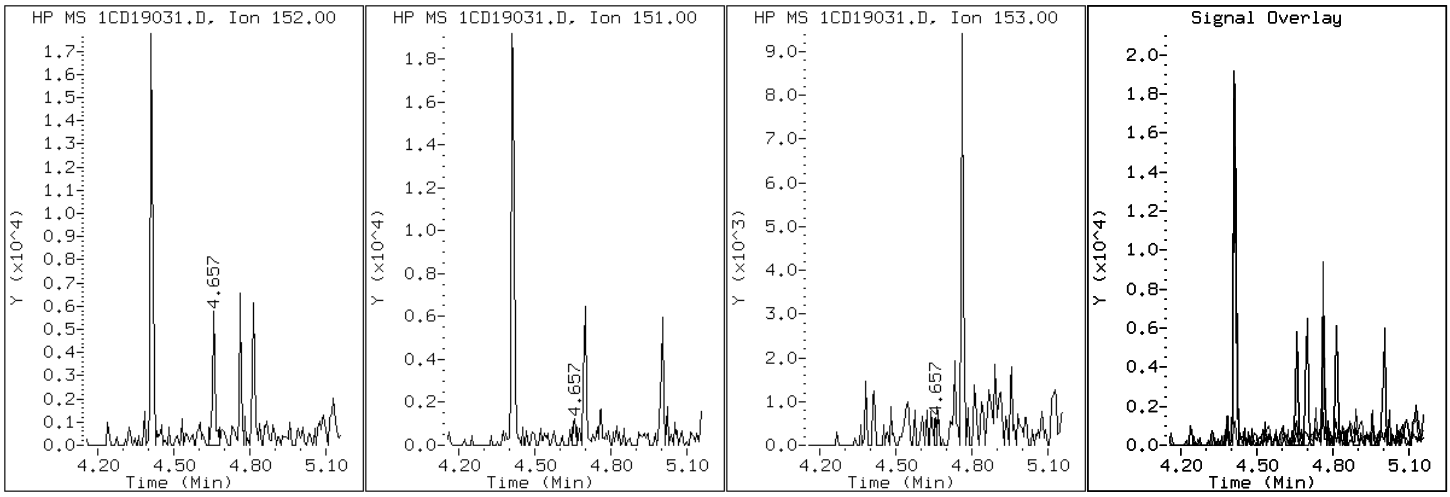
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

5 Acenaphthylene



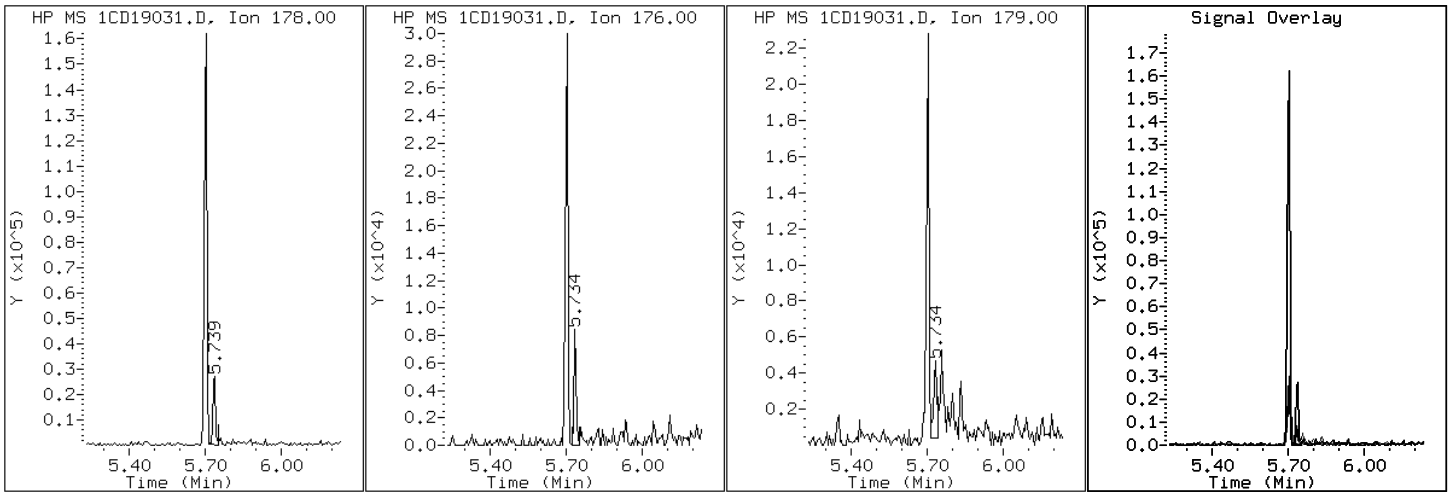
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

12 Anthracene



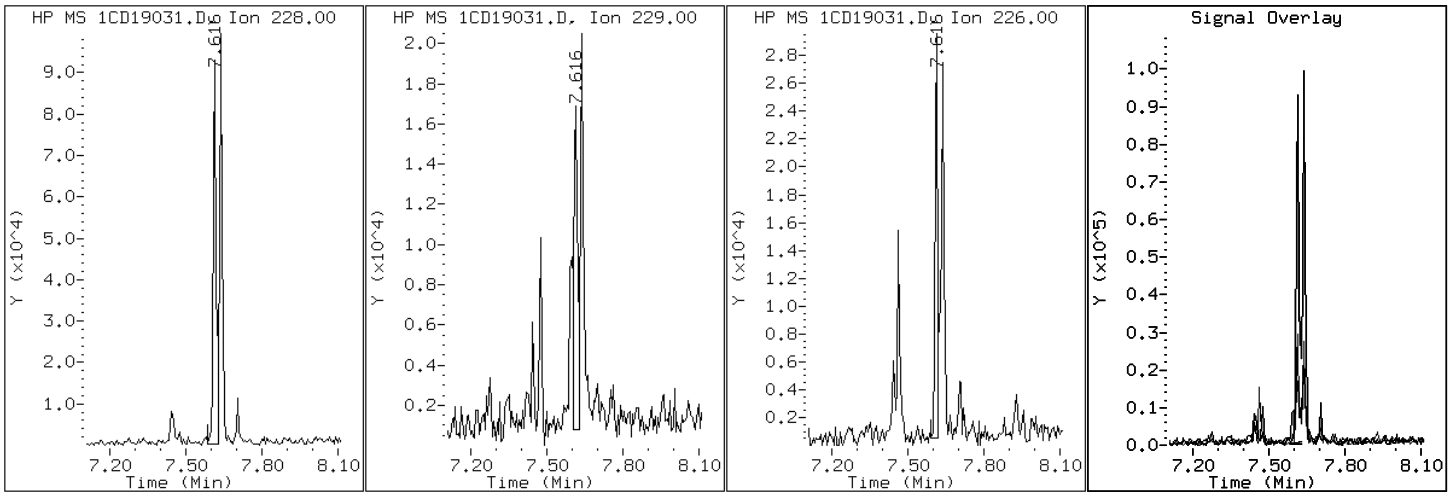
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

17 Benzo(a)anthracene



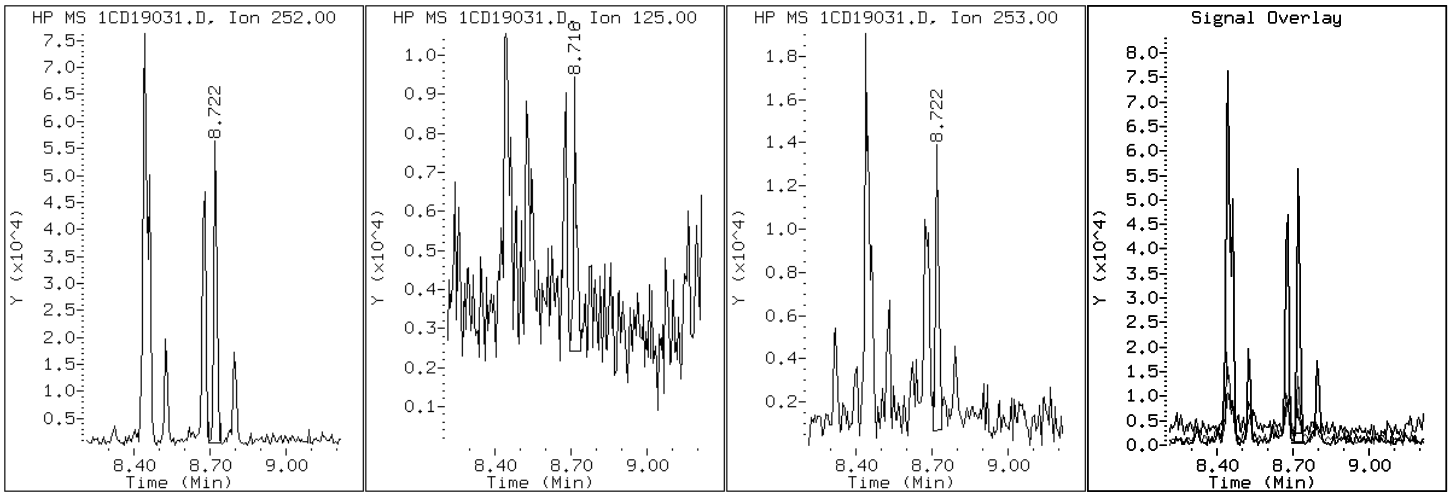
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

22 Benzo(a)pyrene



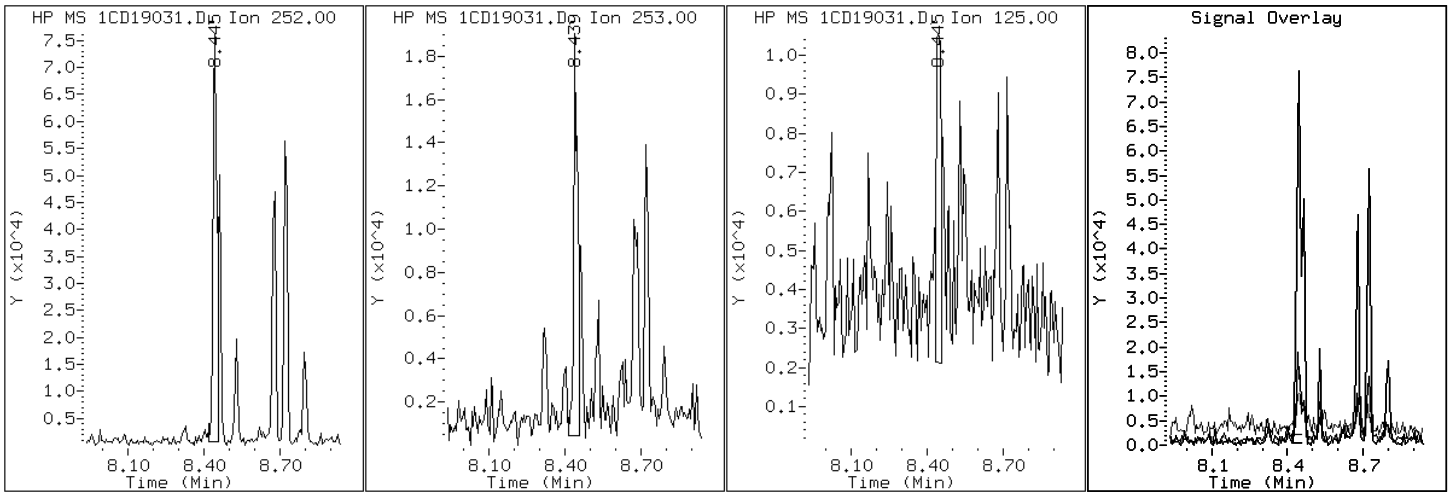
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



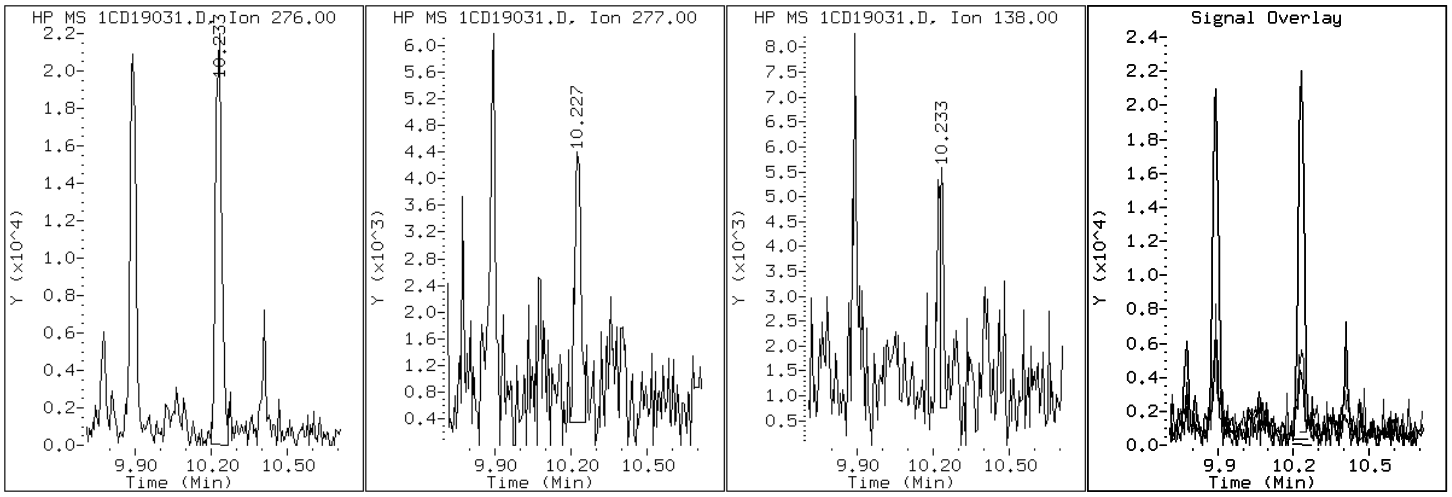
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



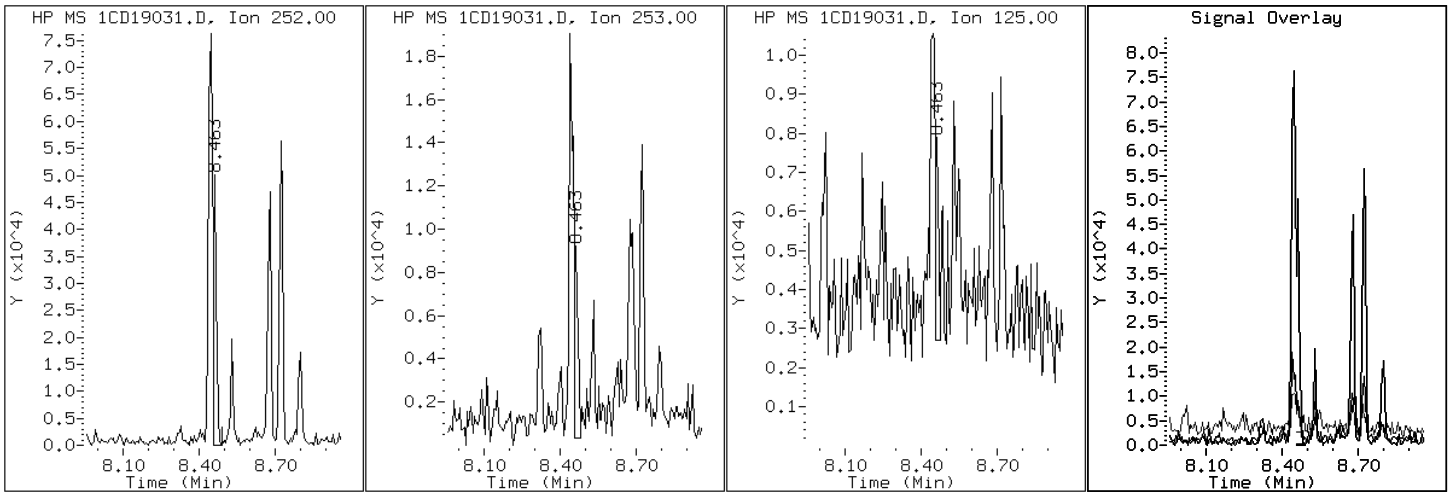
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



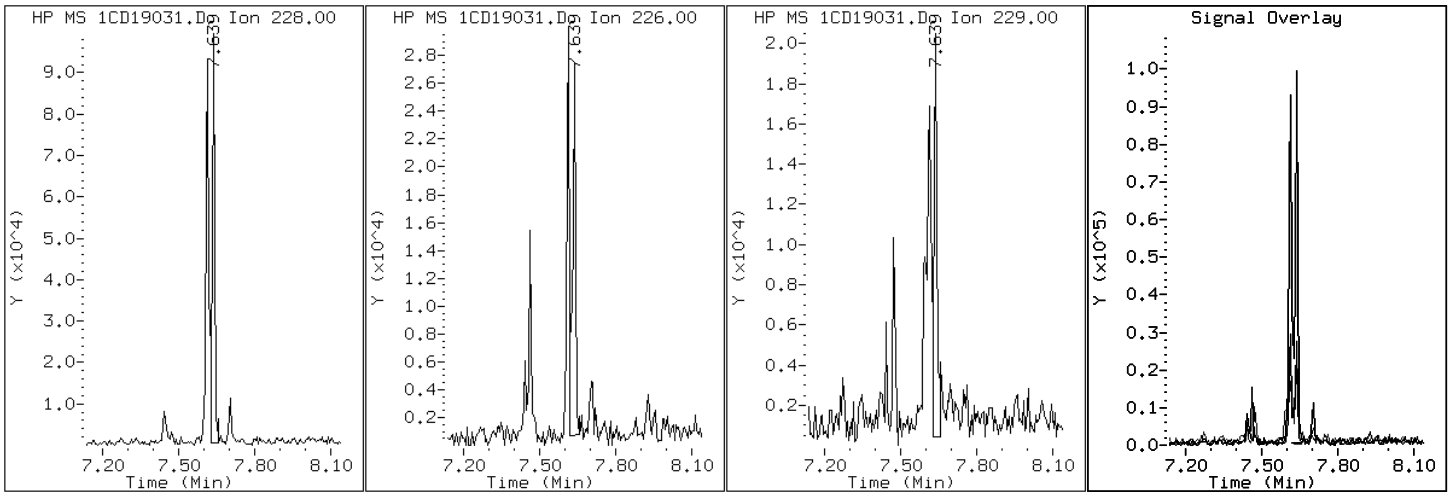
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

19 Chrysene



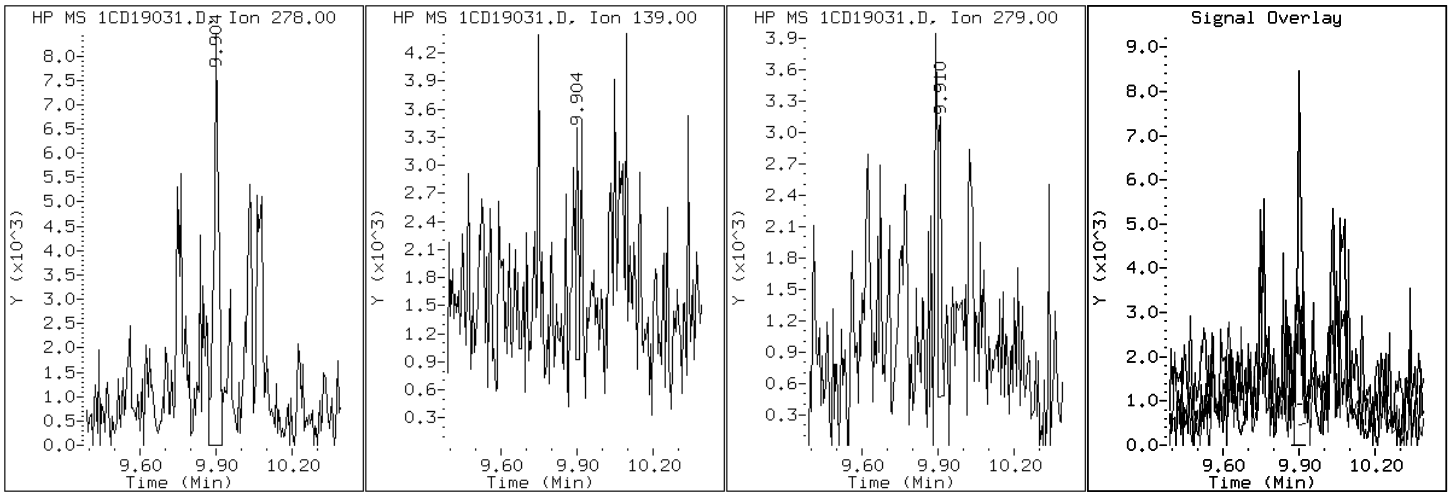
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



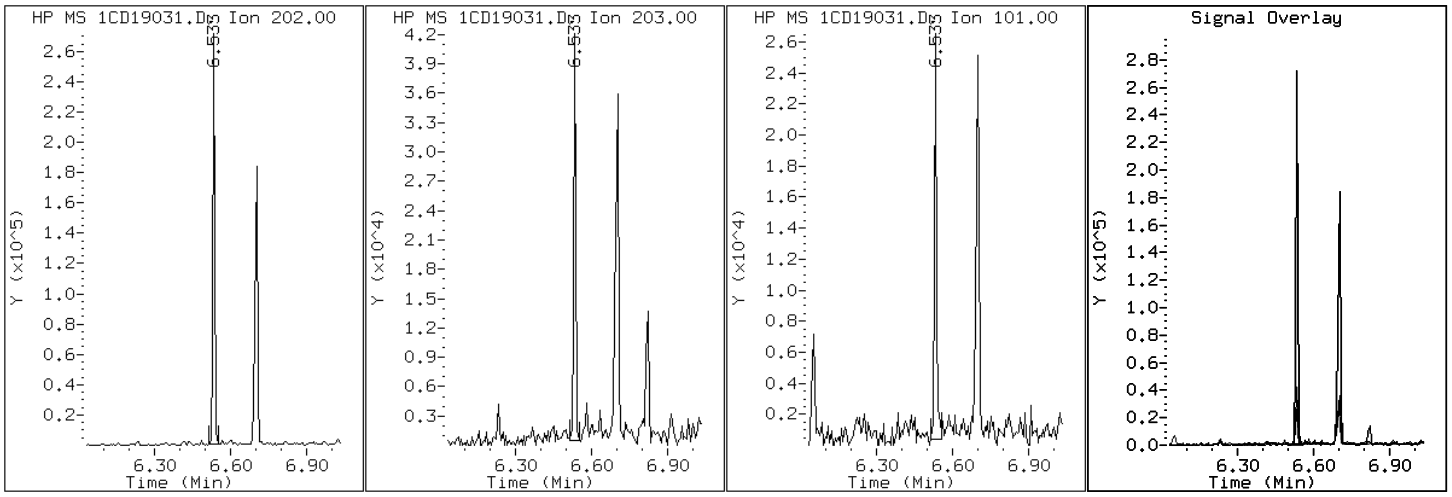
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

15 Fluoranthene



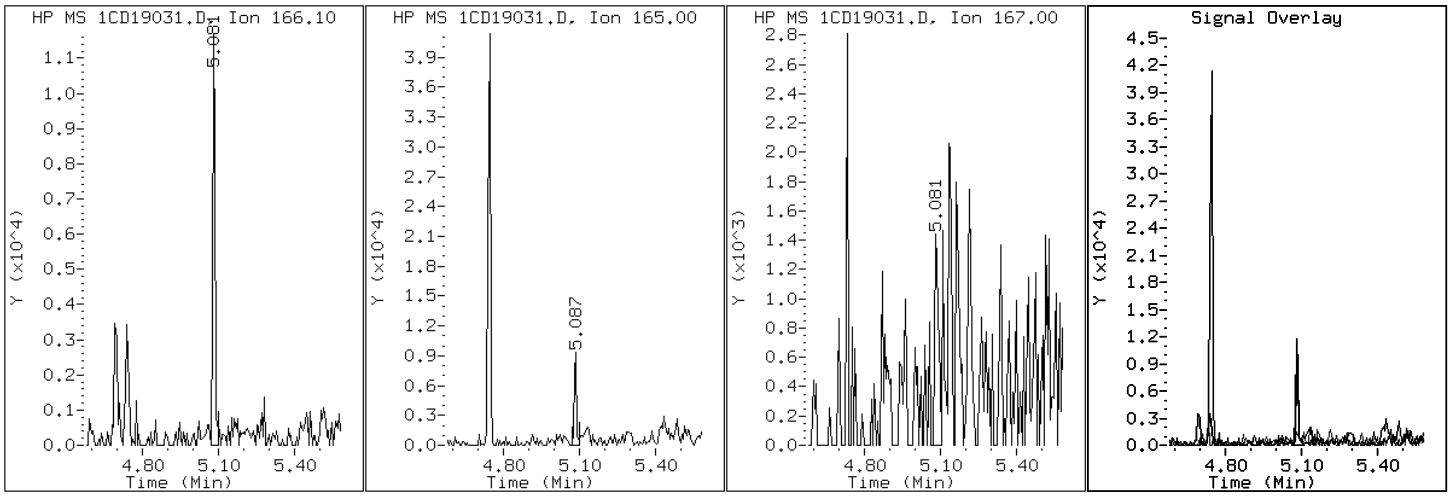
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

9 Fluorene



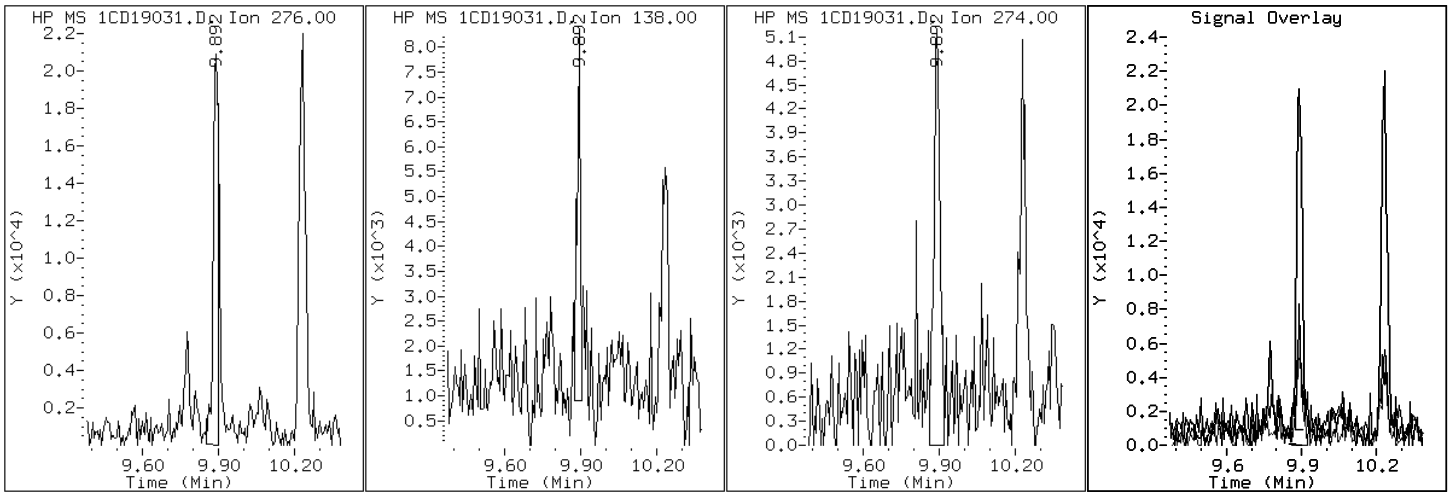
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

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



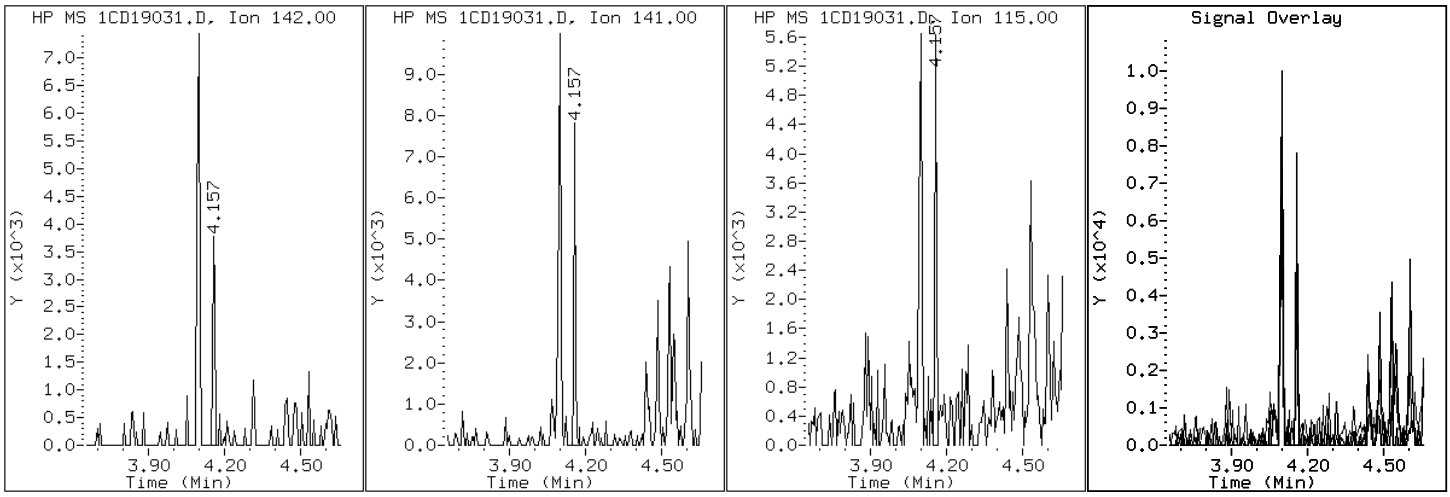
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

4 1-Methylnaphthalene



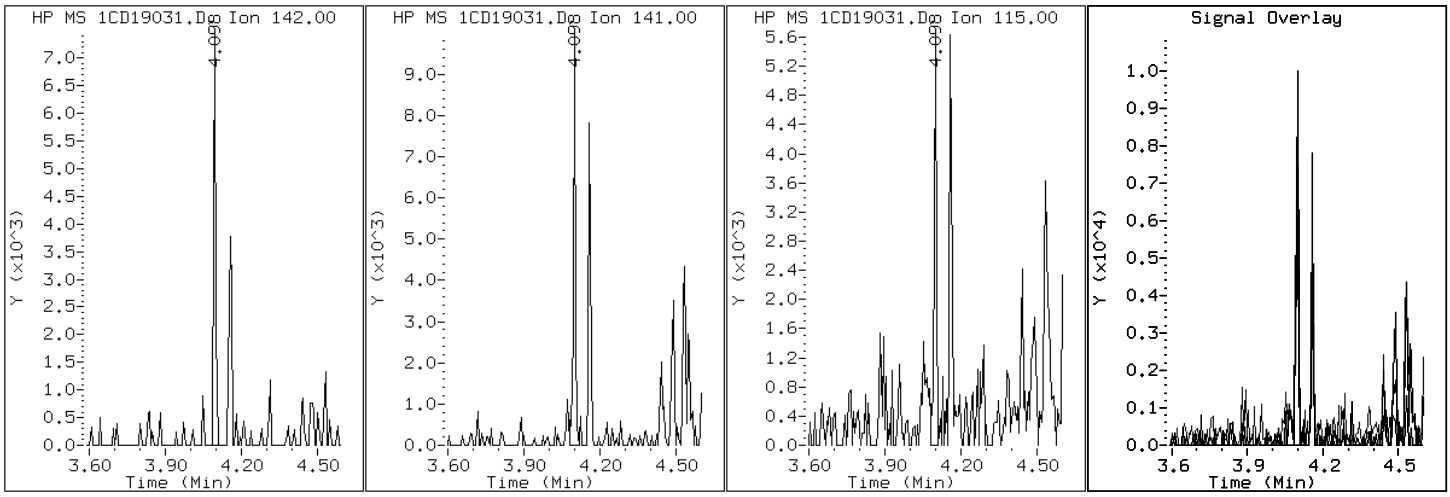
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

3 2-Methylnaphthalene



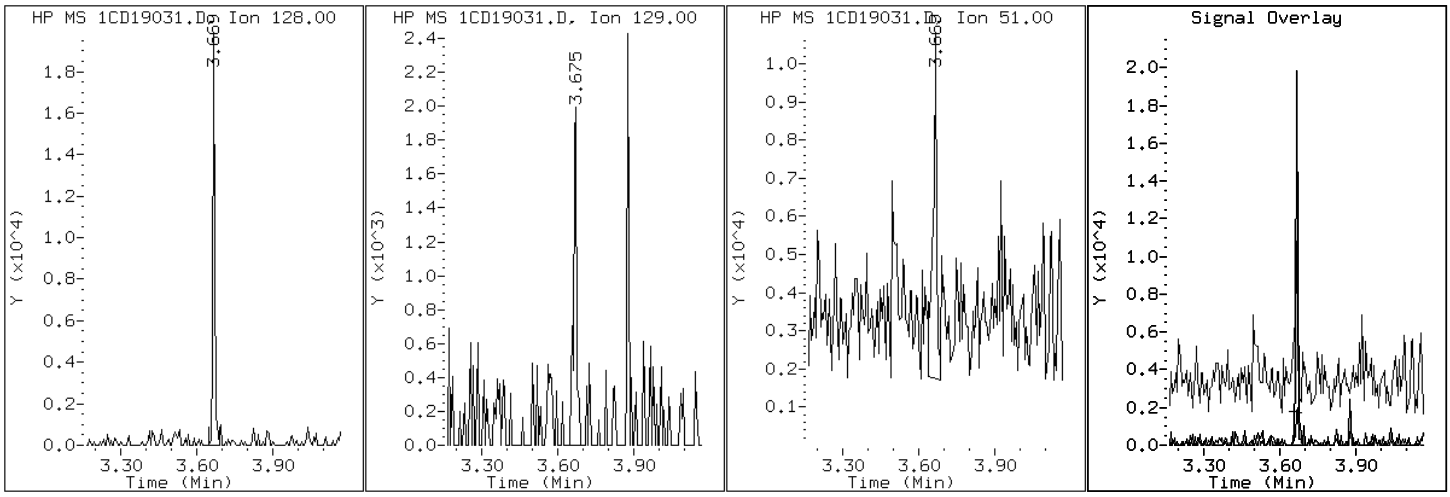
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

2 Naphthalene



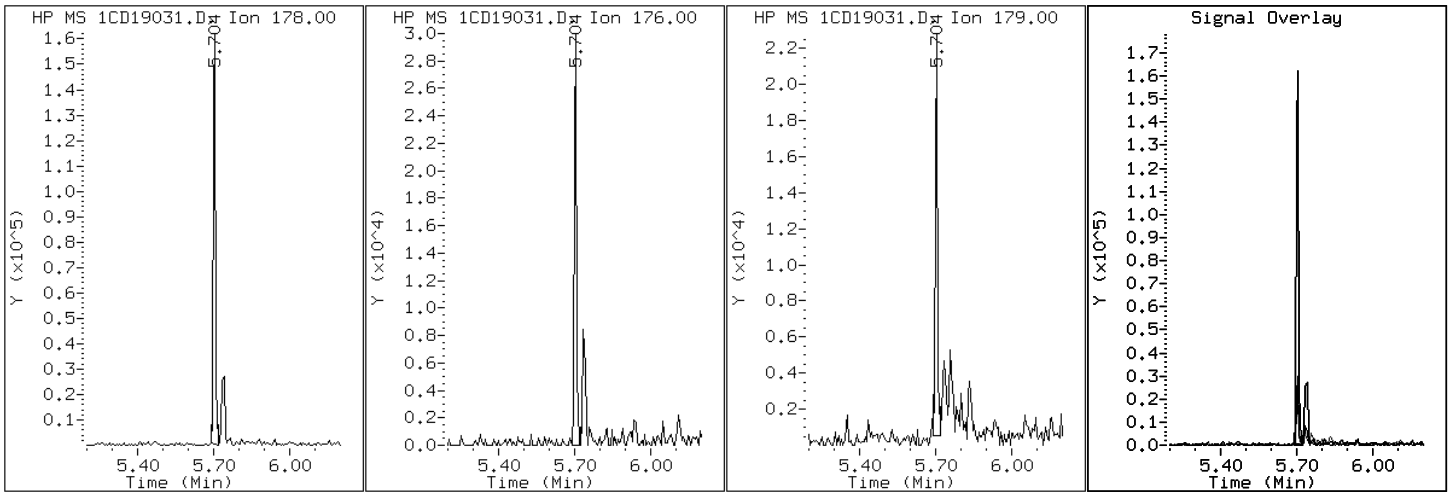
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

11 Phenanthrene



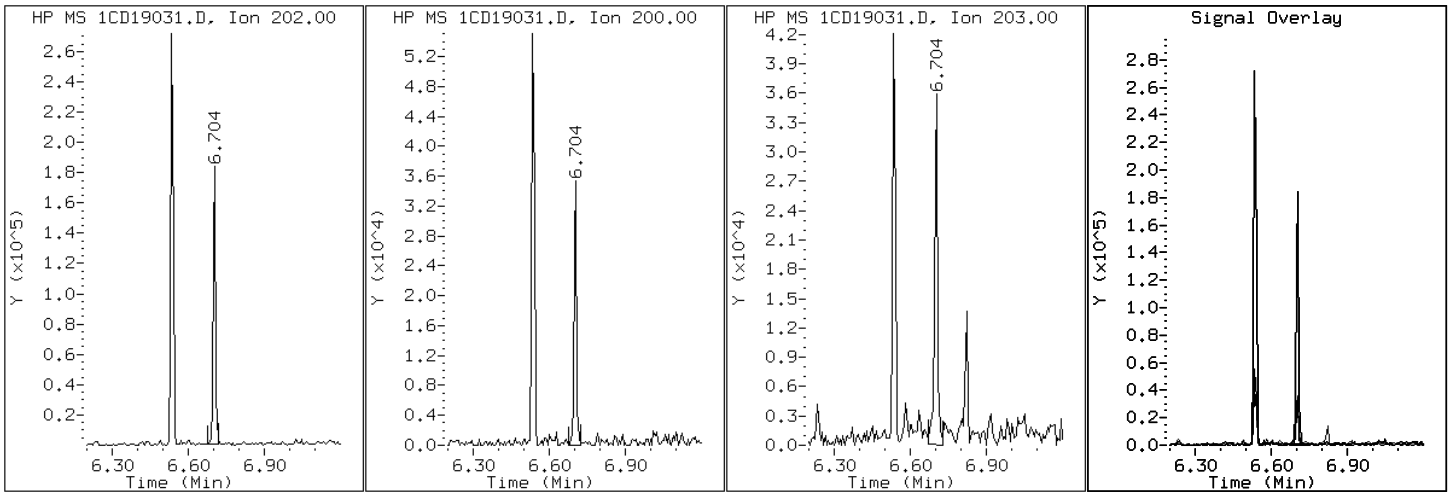
Data File: 1CD19031.D

Date: 19-APR-2013 20:18

Client ID: HP0202B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19031.D
Inj. Date and Time: 19-APR-2013 20:18
Instrument ID: BSMC5973.i
Client ID: HP0202B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

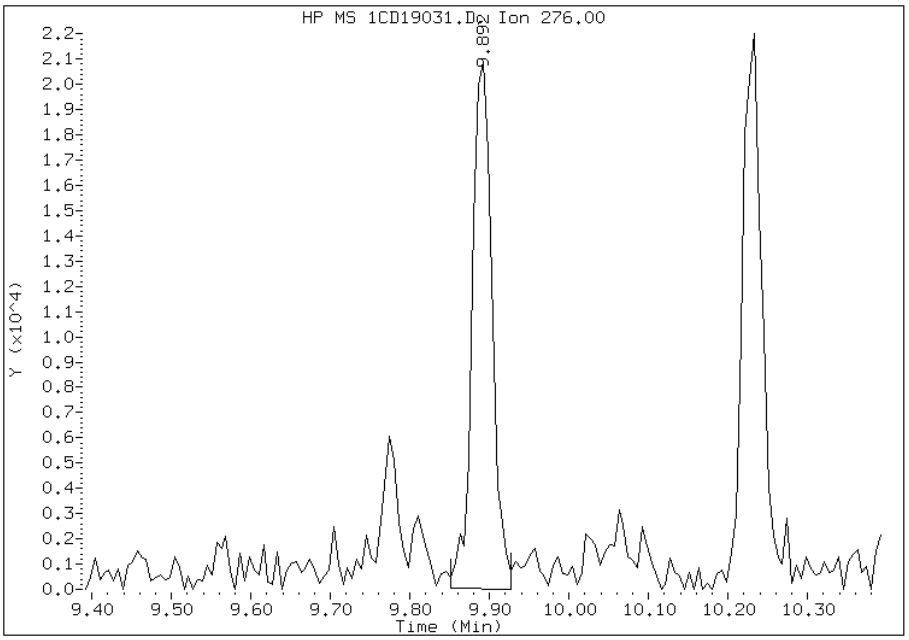
Processing Integration Results

RT: 9.89

Response: 36168

Amount: 5

Conc: 411



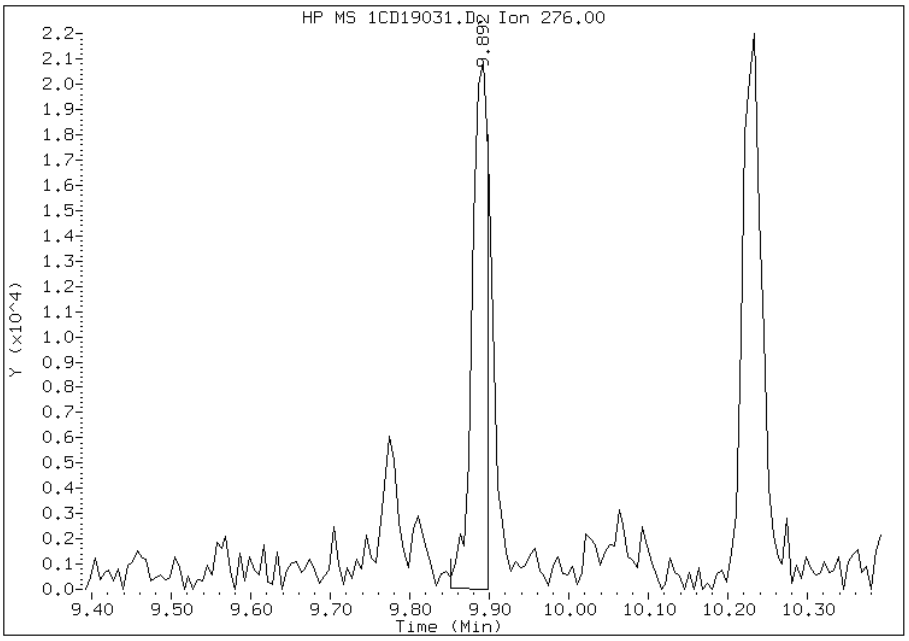
Manual Integration Results

RT: 9.89

Response: 29277

Amount: 4

Conc: 343



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0202C-CS-SP | Lab Sample ID: 680-89328-8

Matrix: Solid | Lab File ID: 1CD22016.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 11:16

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.96(g) | Date Analyzed: 04/22/2013 16:33

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	71	J	200	25
120-12-7	Anthracene	46		42	21
56-55-3	Benzo[a]anthracene	210		40	19
50-32-8	Benzo[a]pyrene	260	F	52	26
205-99-2	Benzo[b]fluoranthene	370		60	30
191-24-2	Benzo[g,h,i]perylene	230		99	22
207-08-9	Benzo[k]fluoranthene	110		40	18
218-01-9	Chrysene	330	F	45	22
53-70-3	Dibenz(a,h)anthracene	99	U	99	20
206-44-0	Fluoranthene	300	F	99	20
86-73-7	Fluorene	99	U	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	380		99	35
90-12-0	1-Methylnaphthalene	190	J F	200	22
91-57-6	2-Methylnaphthalene	270	F	200	35
91-20-3	Naphthalene	130	J	200	22
85-01-8	Phenanthrene	200		40	19
129-00-0	Pyrene	380	F	99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22016.D
Lab Smp Id: 680-89328-A-8-A Client Smp ID: HP0202C-CS-SP
Inj Date : 22-APR-2013 16:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-8-a
Misc Info : 680-89328-A-8-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	19.101	% 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	3.651	3.651	(1.000)	211575	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	136482	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	267884	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.045)	5219	1.86615	616.7843
*	18 Chrysene-d12	240	7.609	7.615	(1.000)	312927	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	314833	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	2240	0.39166	129.4489(Q)
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	2035	0.80475	265.9773(Q)
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	2078	0.56882	187.9996
	5 Acenaphthylene	152	4.651	4.651	(0.981)	1238	0.21407	70.7513
	11 Phenanthrene	178	5.692	5.698	(1.002)	4767	0.61332	202.7084
	12 Anthracene	178	5.727	5.733	(1.008)	1090	0.14016	46.3236
	13 Carbazole	167	5.839	5.839	(1.028)	1274	0.17589	58.1342(Q)
	15 Fluoranthene	202	6.527	6.527	(1.149)	8005	0.92115	304.4505

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.692	6.692	(0.879)	10292	1.15609	382.0994
17 Benzo(a)anthracene	228	7.598	7.603	(0.998)	5624	0.63555	210.0578
19 Chrysene	228	7.633	7.633	(1.003)	8641	0.98711	326.2509
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	8923	1.12212	370.8745(M)
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	2879	0.31996	105.7505(QMH)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	6453	0.78506	259.4715
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	4213	1.15532	381.8466
26 Benzo(g,h,i)perylene	276	10.197	10.209	(1.164)	5328	0.69155	228.5659(MH)

QC Flag Legend

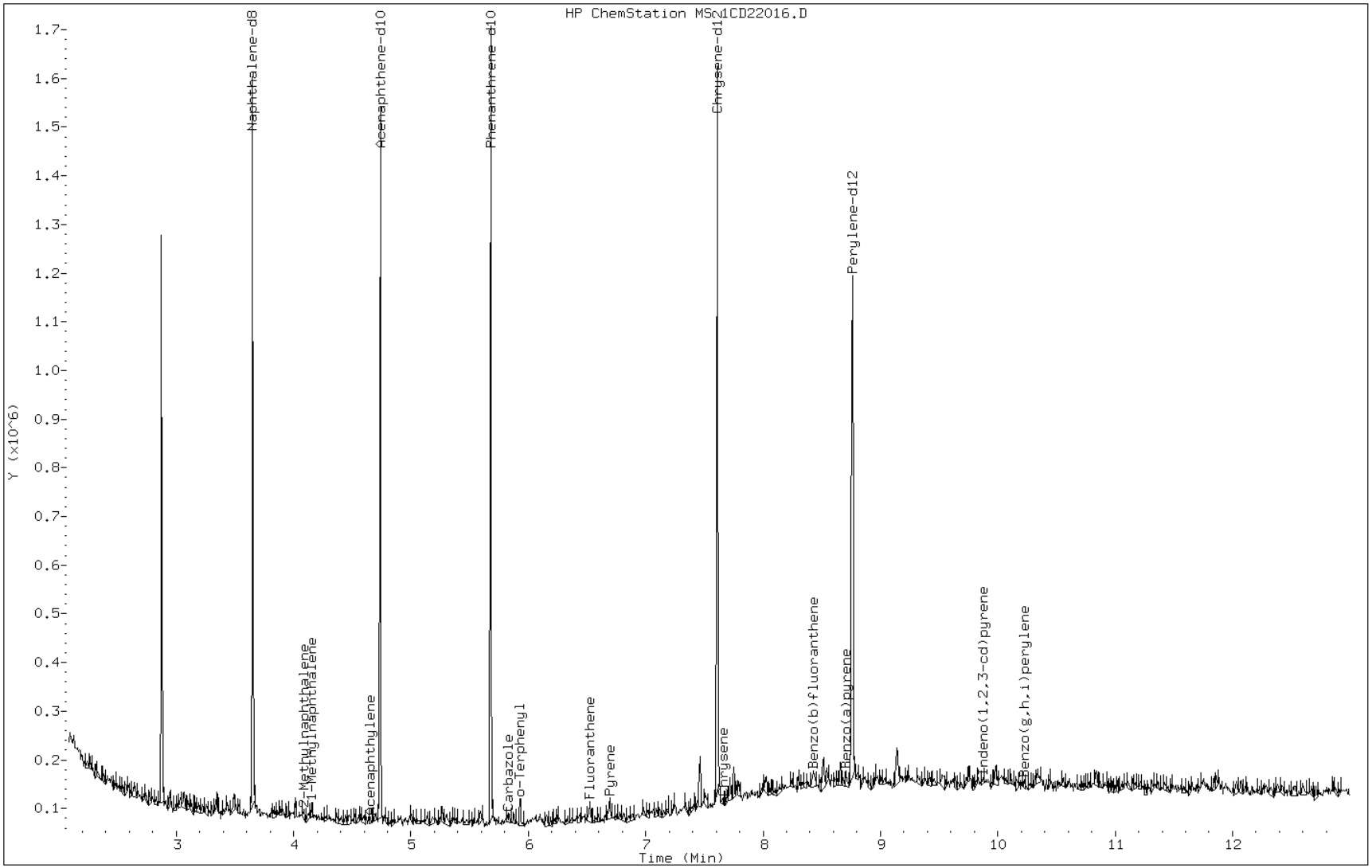
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC



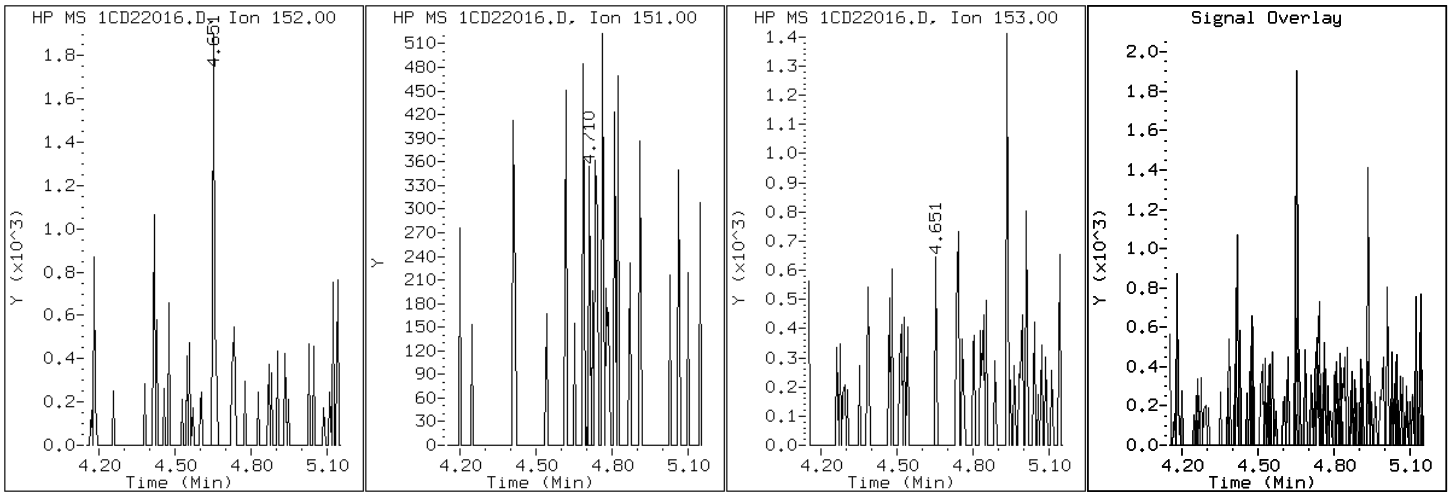
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

5 Acenaphthylene



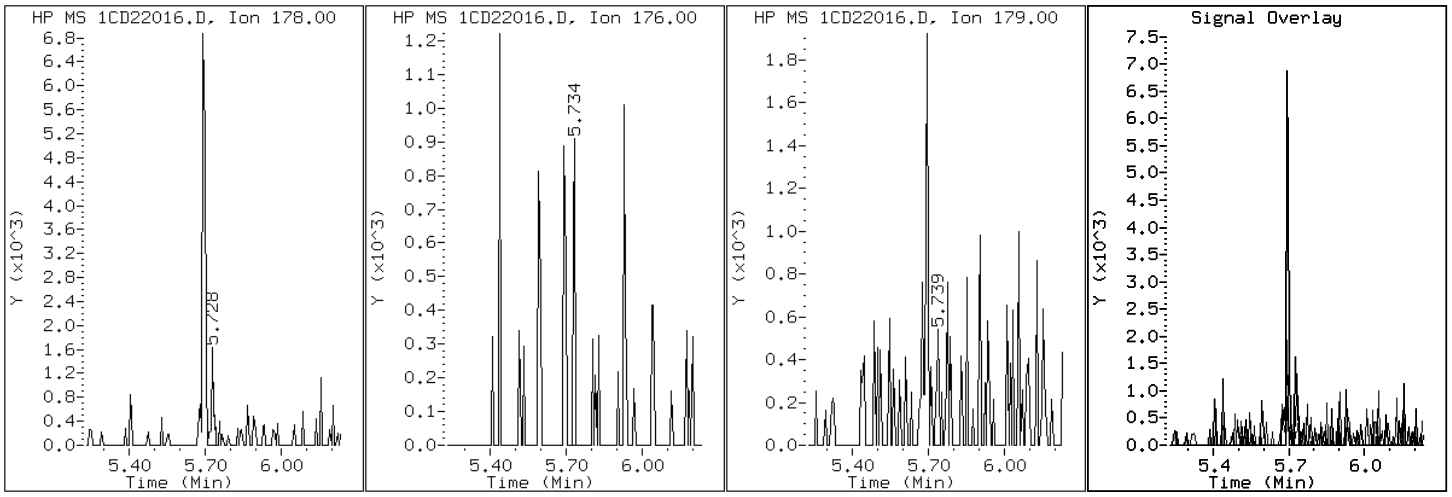
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

12 Anthracene



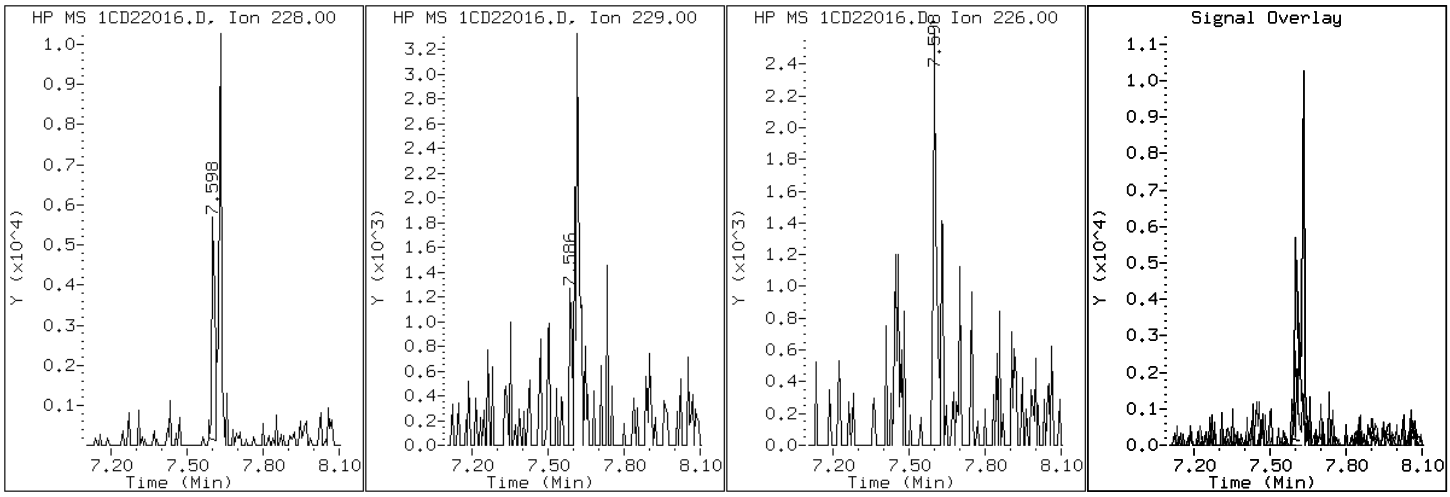
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

17 Benzo(a)anthracene



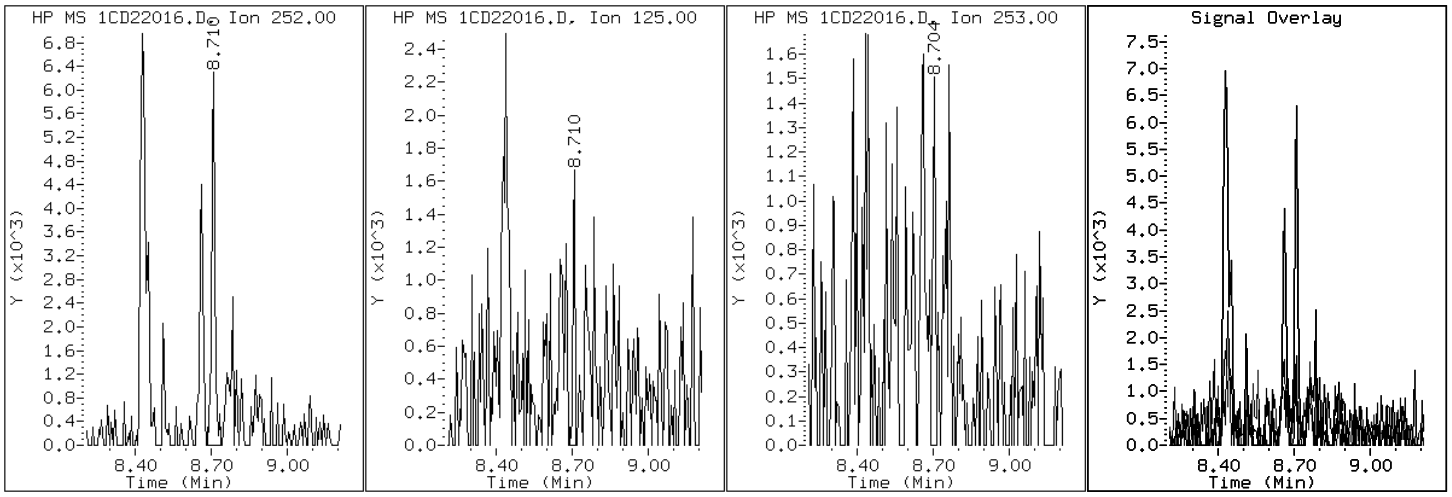
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

22 Benzo(a)pyrene



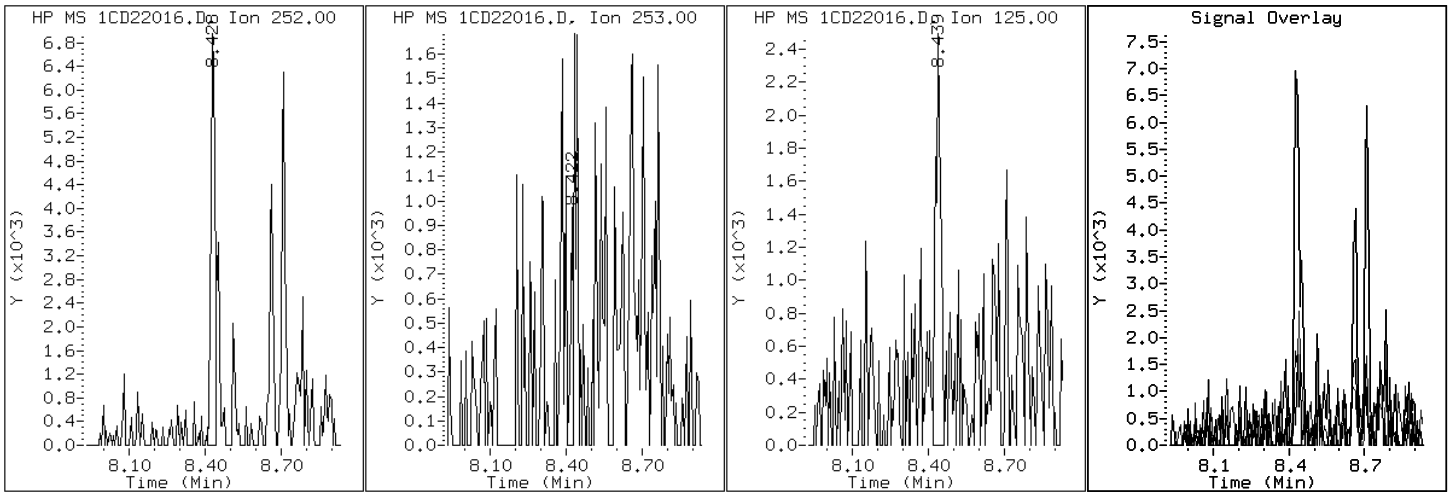
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



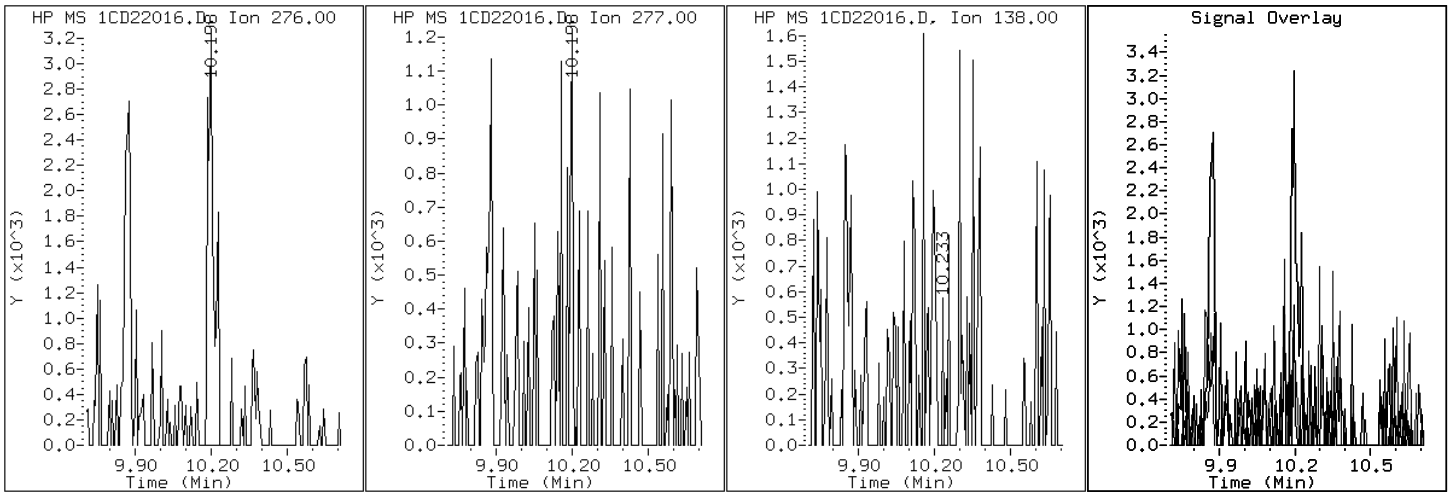
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



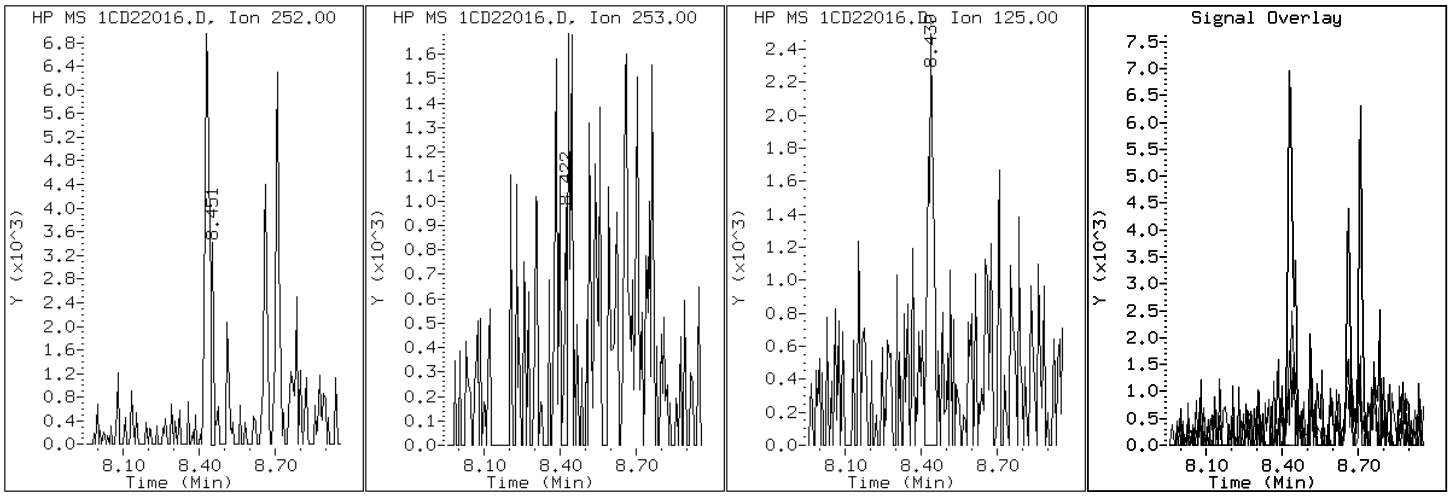
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



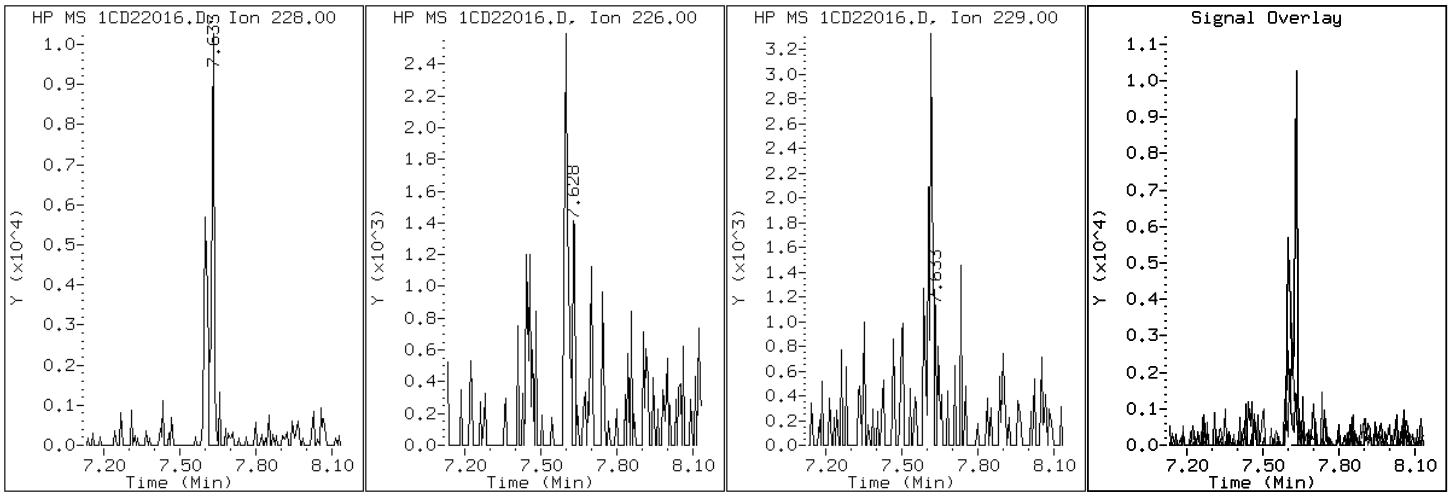
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

19 Chrysene



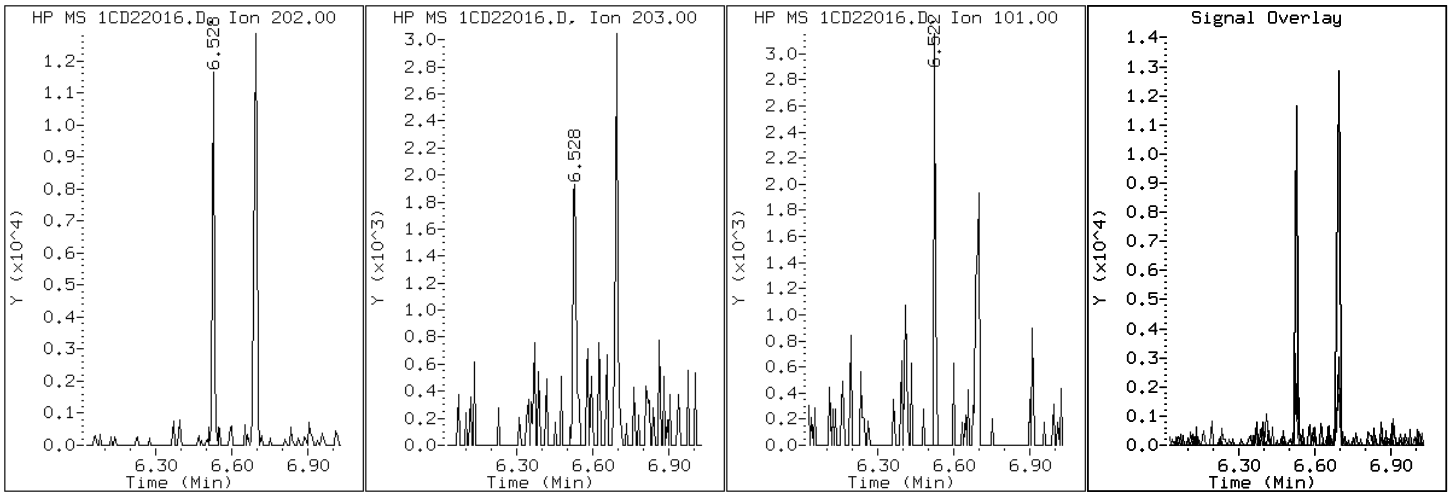
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

15 Fluoranthene



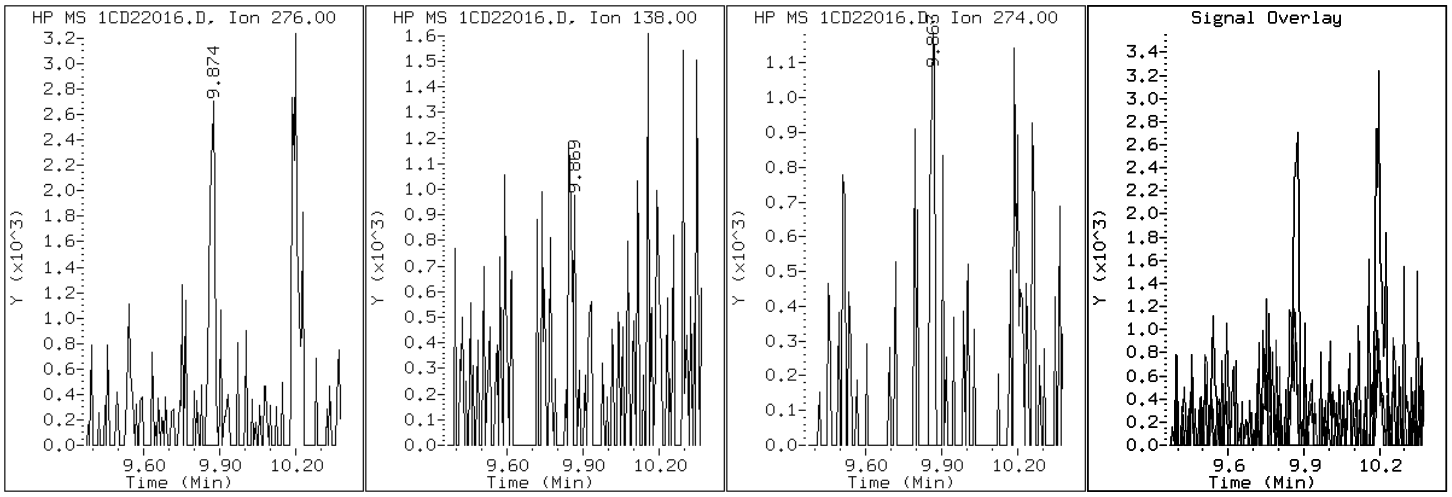
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

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



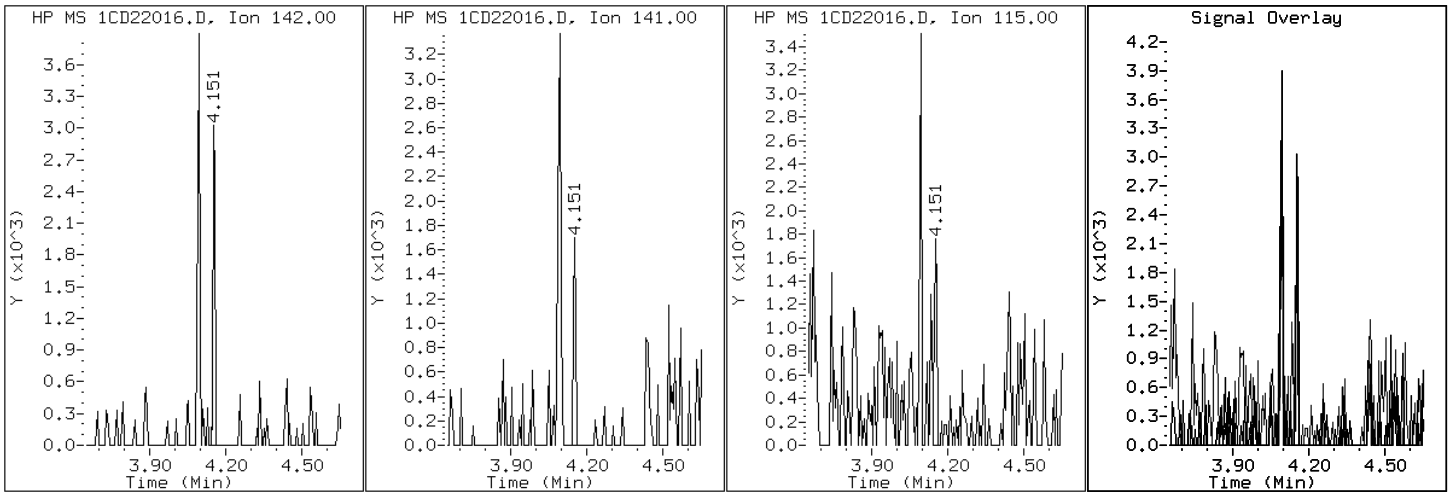
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

4 1-Methylnaphthalene



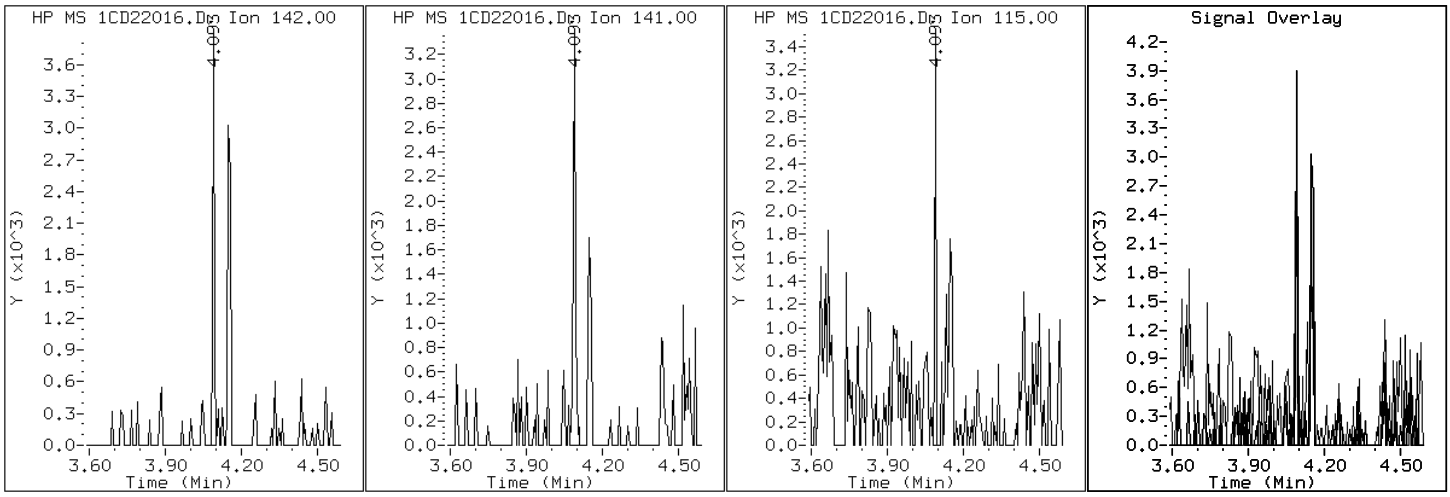
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

3 2-Methylnaphthalene



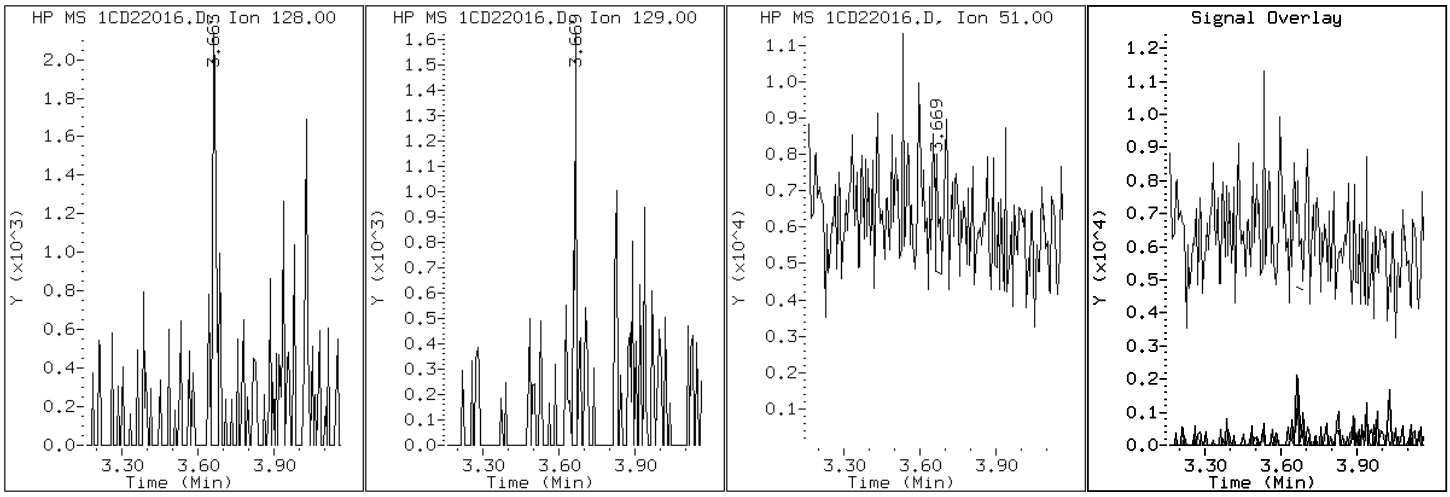
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

2 Naphthalene



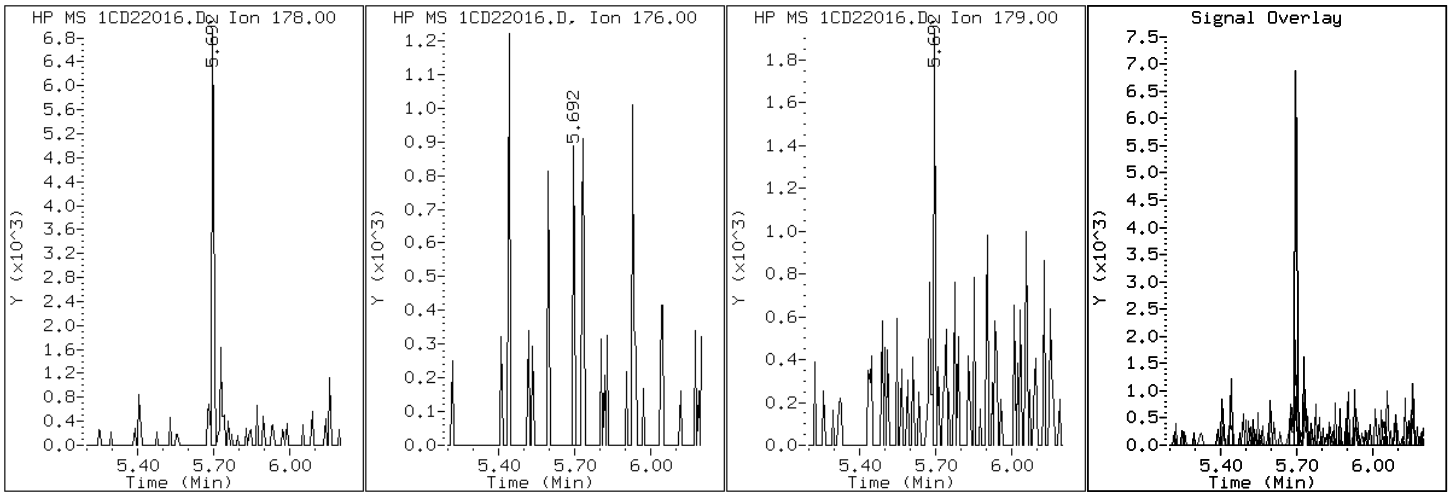
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

11 Phenanthrene



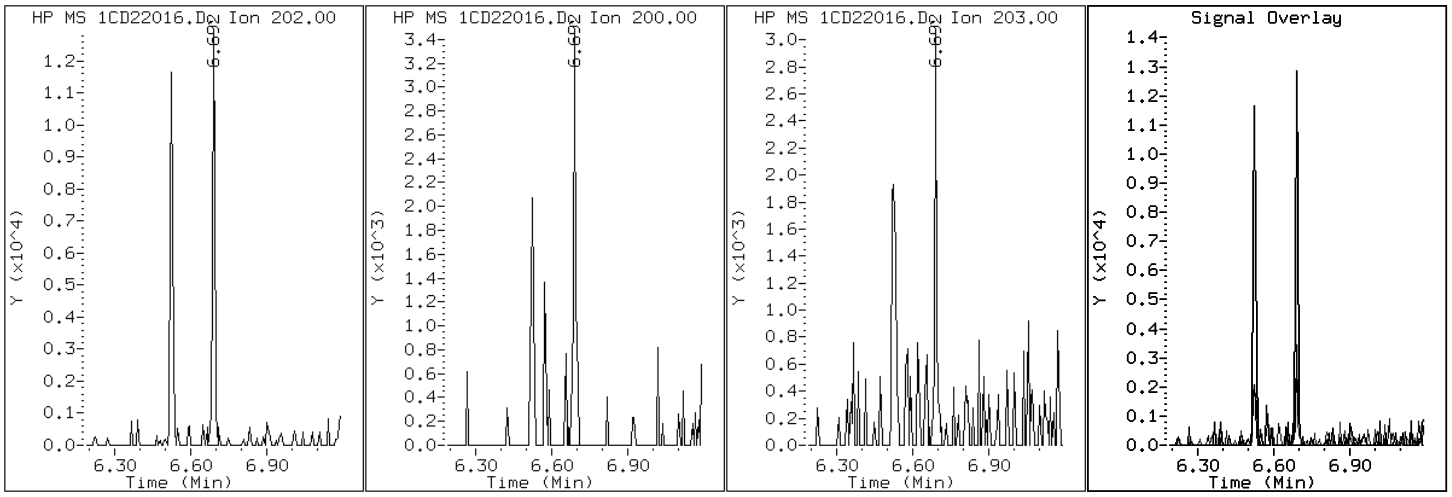
Data File: 1CD22016.D

Date: 22-APR-2013 16:33

Client ID: HP0202C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22016.D
Inj. Date and Time: 22-APR-2013 16:33
Instrument ID: BSMC5973.i
Client ID: HP0202C-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/23/2013

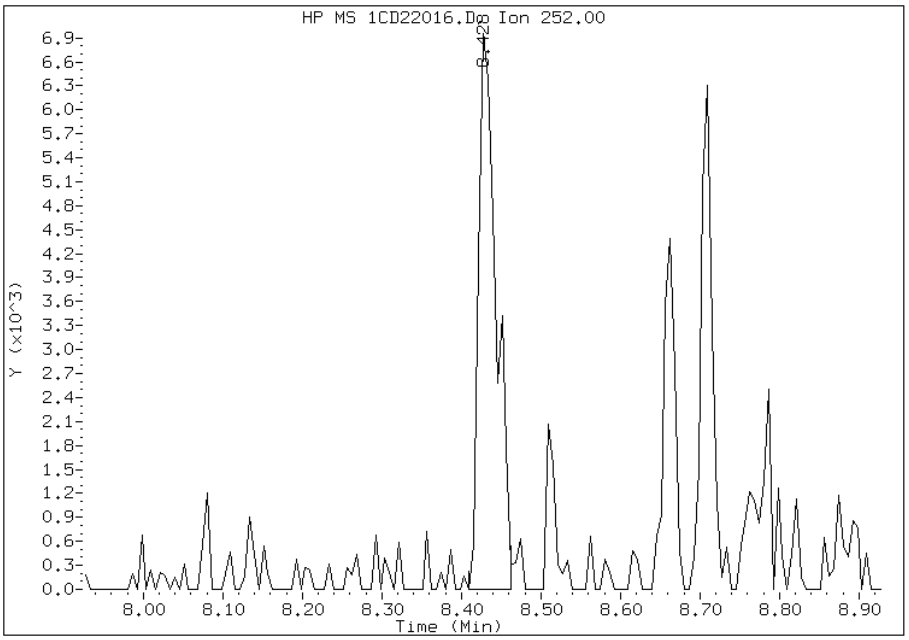
Processing Integration Results

RT: 8.43

Response: 10874

Amount: 1

Conc: 452



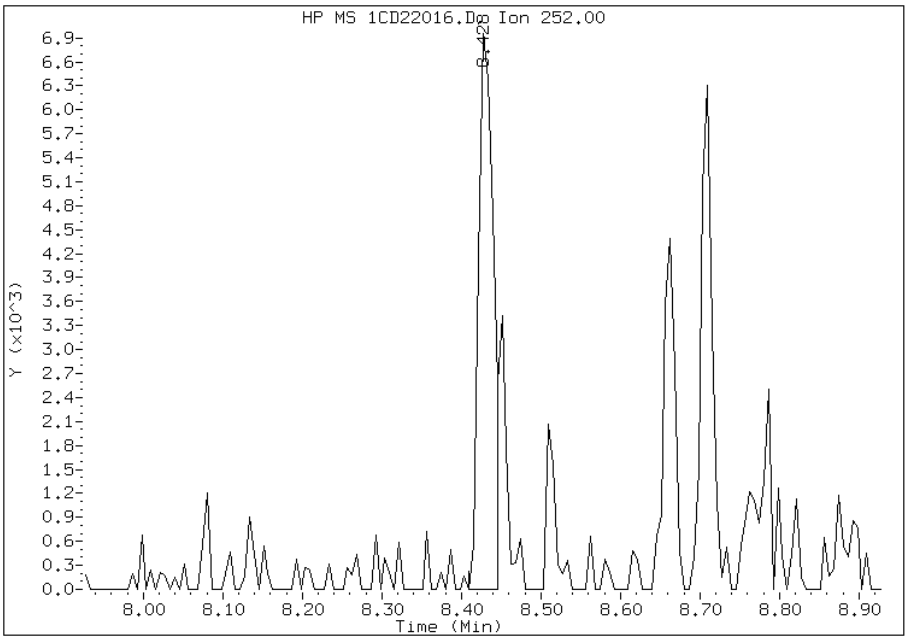
Manual Integration Results

RT: 8.43

Response: 8923

Amount: 1

Conc: 371



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22016.D
Inj. Date and Time: 22-APR-2013 16:33
Instrument ID: BSMC5973.i
Client ID: HP0202C-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/23/2013

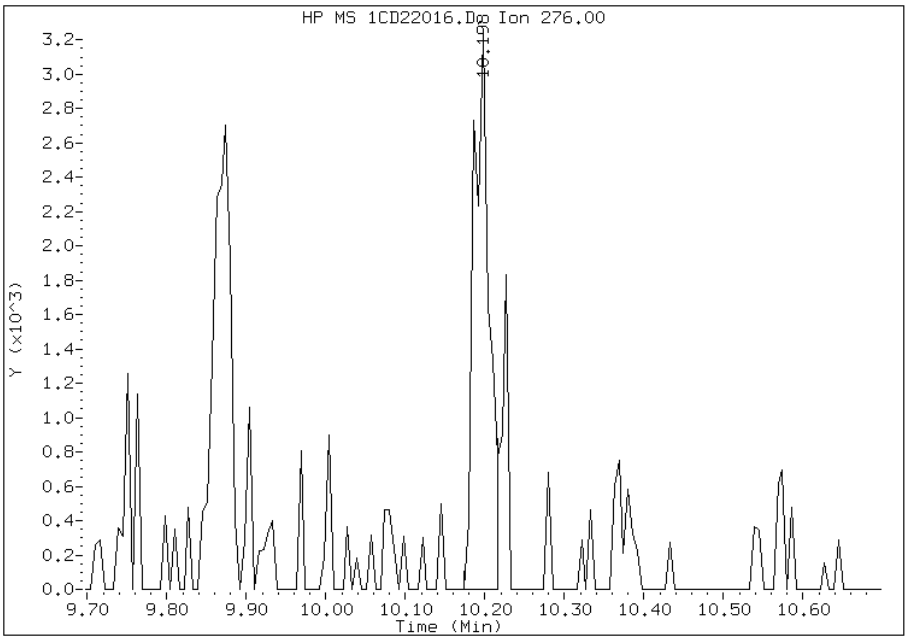
Processing Integration Results

RT: 10.20

Response: 4361

Amount: 1

Conc: 187



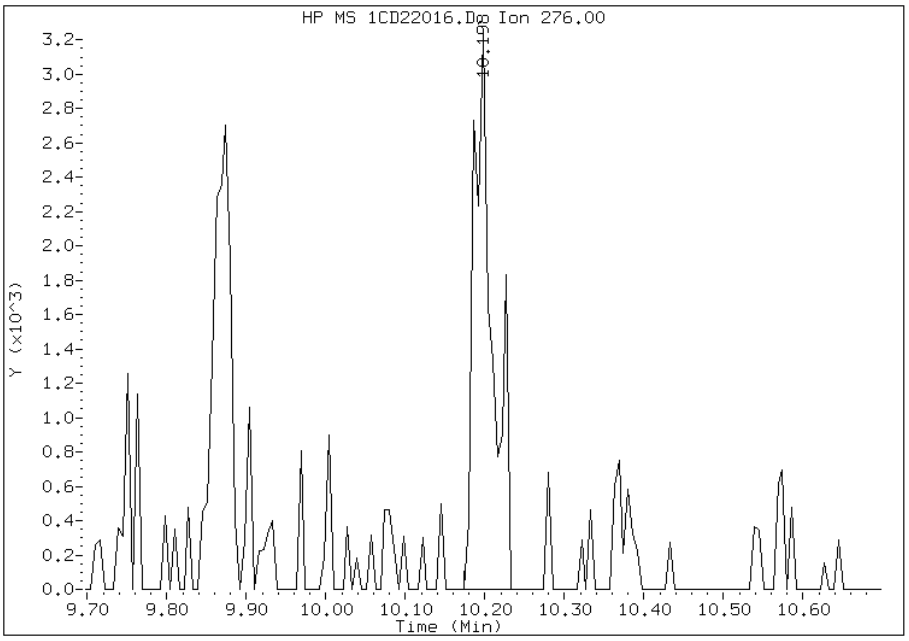
Manual Integration Results

RT: 10.20

Response: 5328

Amount: 1

Conc: 229



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22016.D
Inj. Date and Time: 22-APR-2013 16:33
Instrument ID: BSMC5973.i
Client ID: HP0202C-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/23/2013

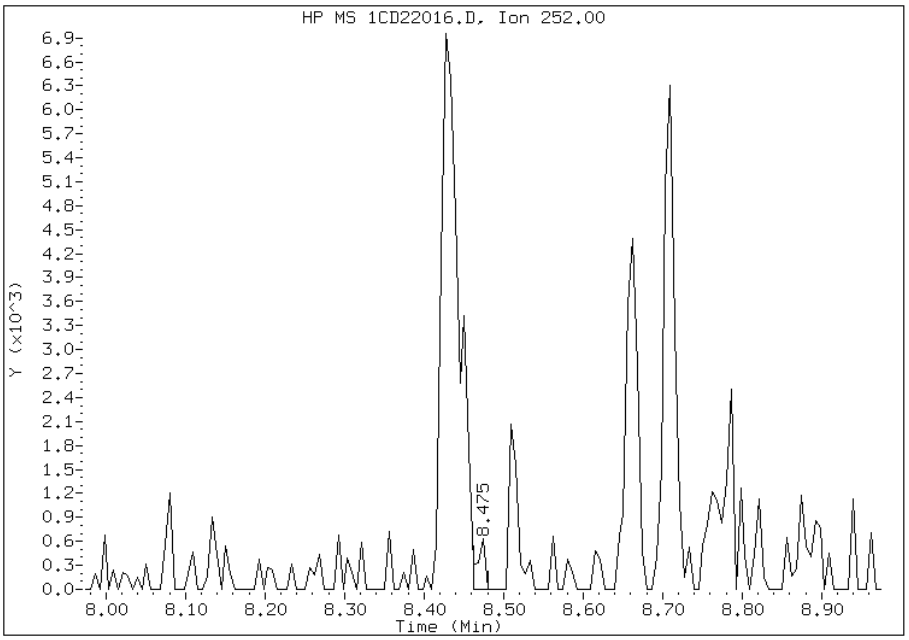
Processing Integration Results

RT: 8.47

Response: 457

Amount: 0

Conc: 17



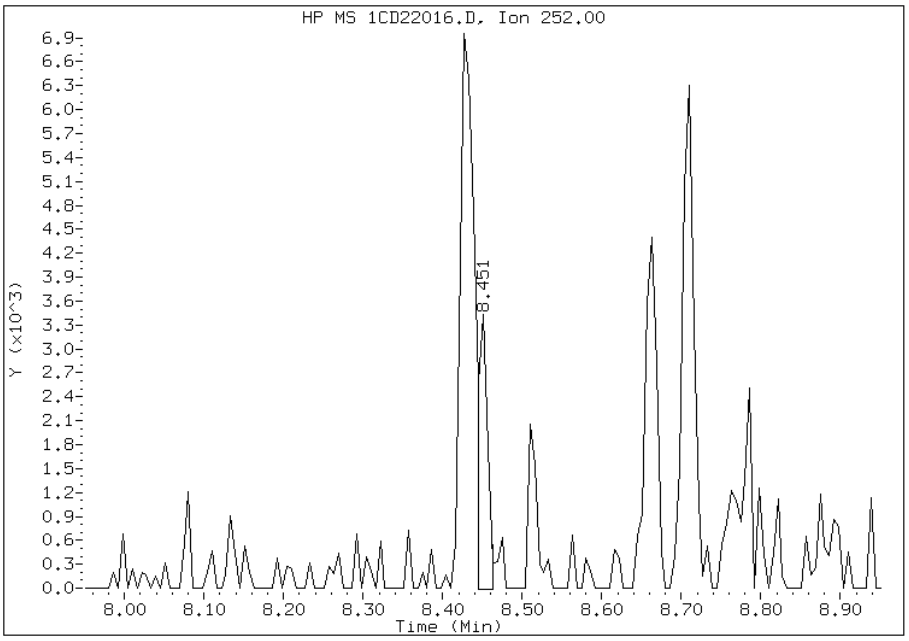
Manual Integration Results

RT: 8.45

Response: 2879

Amount: 0

Conc: 106



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:22
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0224A-CS | Lab Sample ID: 680-89328-9

Matrix: Solid | Lab File ID: 1CD19032.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 13:25

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.09(g) | Date Analyzed: 04/19/2013 20:37

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

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

% Moisture: 23.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	18	J	52	6.5
120-12-7	Anthracene	37		11	5.4
56-55-3	Benzo[a]anthracene	200		10	5.1
50-32-8	Benzo[a]pyrene	160		13	6.7
205-99-2	Benzo[b]fluoranthene	270		16	7.9
191-24-2	Benzo[g,h,i]perylene	160		26	5.7
207-08-9	Benzo[k]fluoranthene	89		10	4.7
218-01-9	Chrysene	310		12	5.8
53-70-3	Dibenz(a,h)anthracene	110		26	5.3
206-44-0	Fluoranthene	260		26	5.2
86-73-7	Fluorene	40		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		26	9.2
90-12-0	1-Methylnaphthalene	230		52	5.7
91-57-6	2-Methylnaphthalene	250		52	9.2
91-20-3	Naphthalene	170		52	5.7
85-01-8	Phenanthrene	340		10	5.1
129-00-0	Pyrene	230		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19032.D
Lab Smp Id: 680-89328-A-9-A Client Smp ID: CV0224A-CS
Inj Date : 19-APR-2013 20:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-9-a
Misc Info : 680-89328-A-9-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	23.313	% 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	3.657	3.657	(1.000)	240805	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	164944	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	305996	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	28081	6.23141	538.4865
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	319551	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	311854	40.0000	
	2 Naphthalene	128	3.669	3.669	(1.003)	12668	1.94613	168.1743
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	11562	2.92856	253.0714
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	11064	2.66095	229.9455
	5 Acenaphthylene	152	4.657	4.657	(0.981)	1490	0.21318	18.4222(Q)
	9 Fluorene	166	5.080	5.080	(1.071)	2480	0.46268	39.9819(Q)
	11 Phenanthrene	178	5.704	5.698	(1.003)	35387	3.94540	340.9408
	12 Anthracene	178	5.733	5.733	(1.008)	3766	0.42394	36.6344
	13 Carbazole	167	5.845	5.845	(1.028)	4636	0.56034	48.4216(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.533	6.533	(1.149)	29963	3.01846	260.8399
16 Pyrene	202	6.704	6.698	(0.880)	24357	2.67928	231.5291
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	20409	2.25856	195.1733
19 Chrysene	228	7.639	7.639	(1.002)	32494	3.63503	314.1204
20 Benzo(b)fluoranthene	252	8.445	8.439	(0.962)	24377	3.09485	267.4408
21 Benzo(k)fluoranthene	252	8.462	8.457	(0.964)	9227	1.03525	89.4607(Q)
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	14901	1.83015	158.1520
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.126)	4929	1.24877	107.9119(M)
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.127)	6233	1.22755	106.0785(M)
26 Benzo(g,h,i)perylene	276	10.227	10.209	(1.166)	14046	1.84053	159.0491

QC Flag Legend

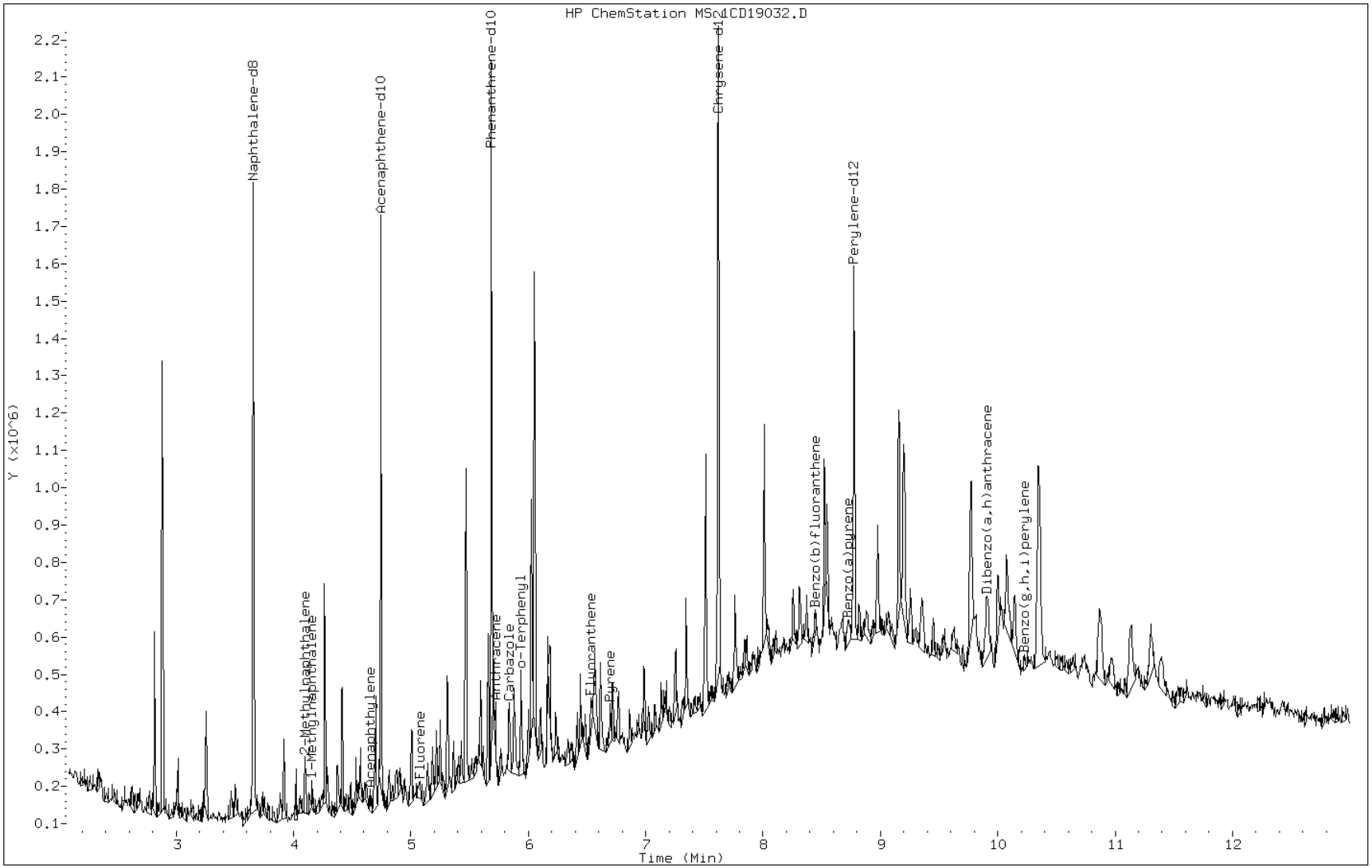
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC



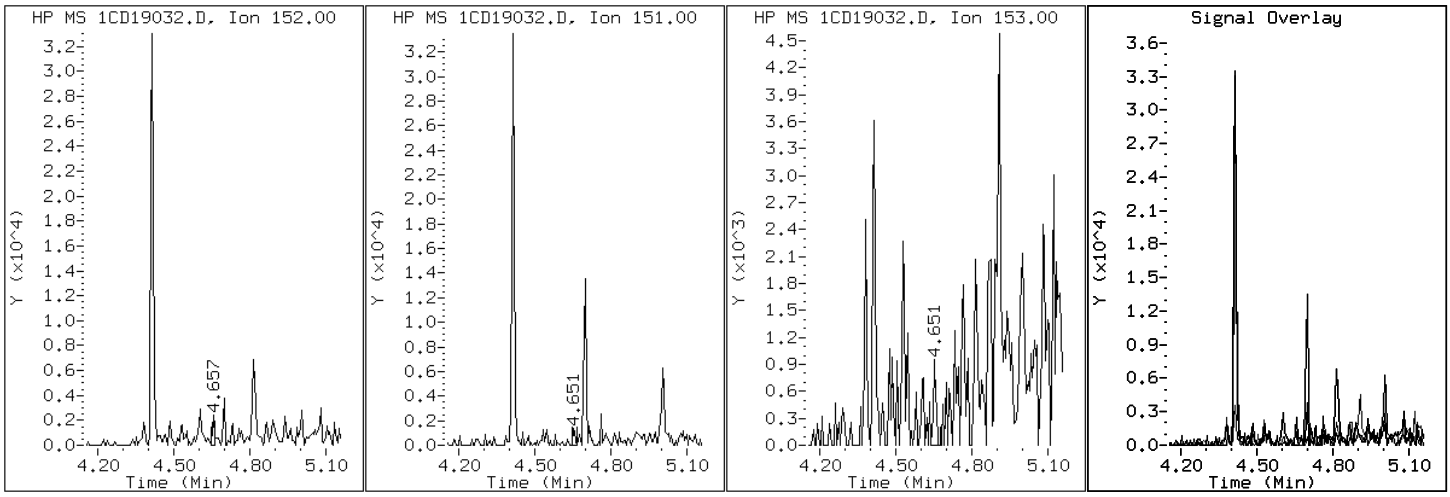
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

5 Acenaphthylene



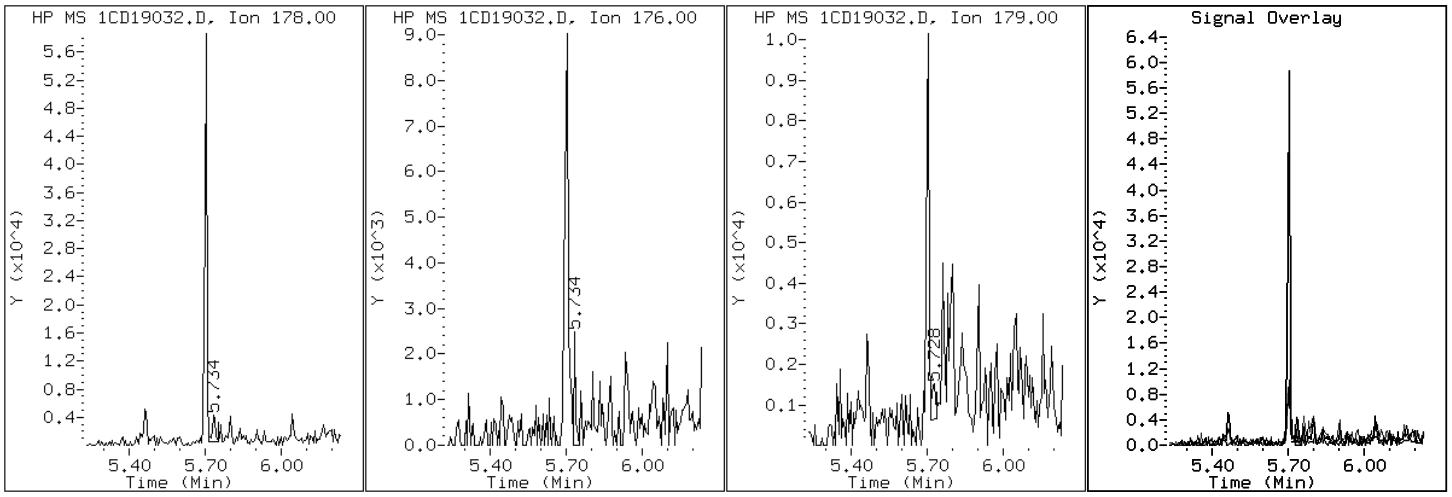
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

12 Anthracene



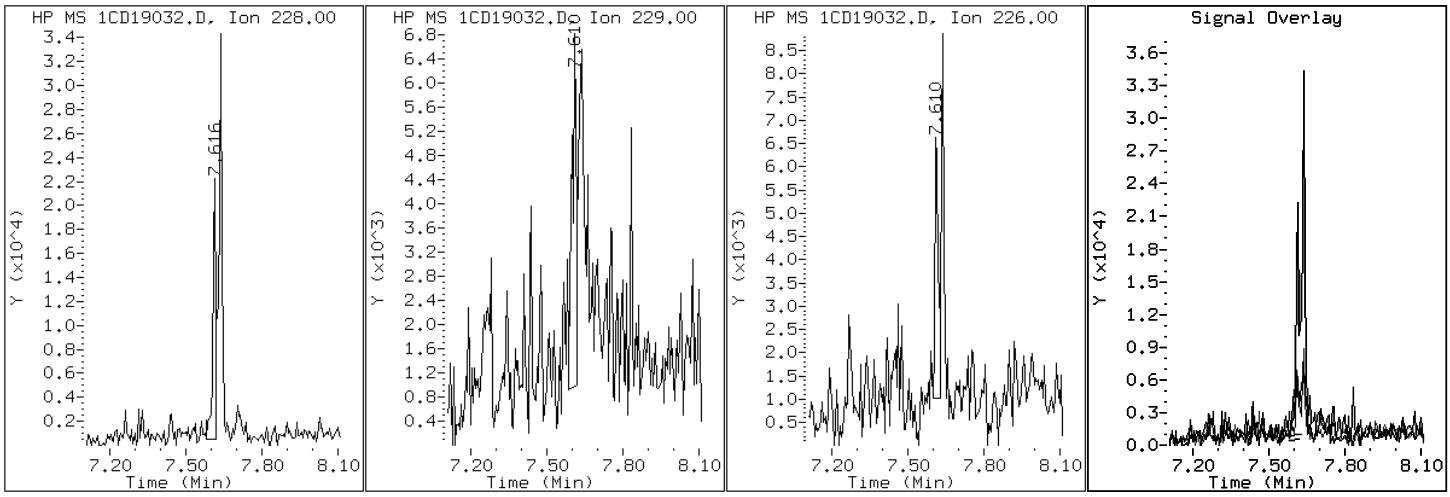
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD19032.D

Date: 19-APR-2013 20:37

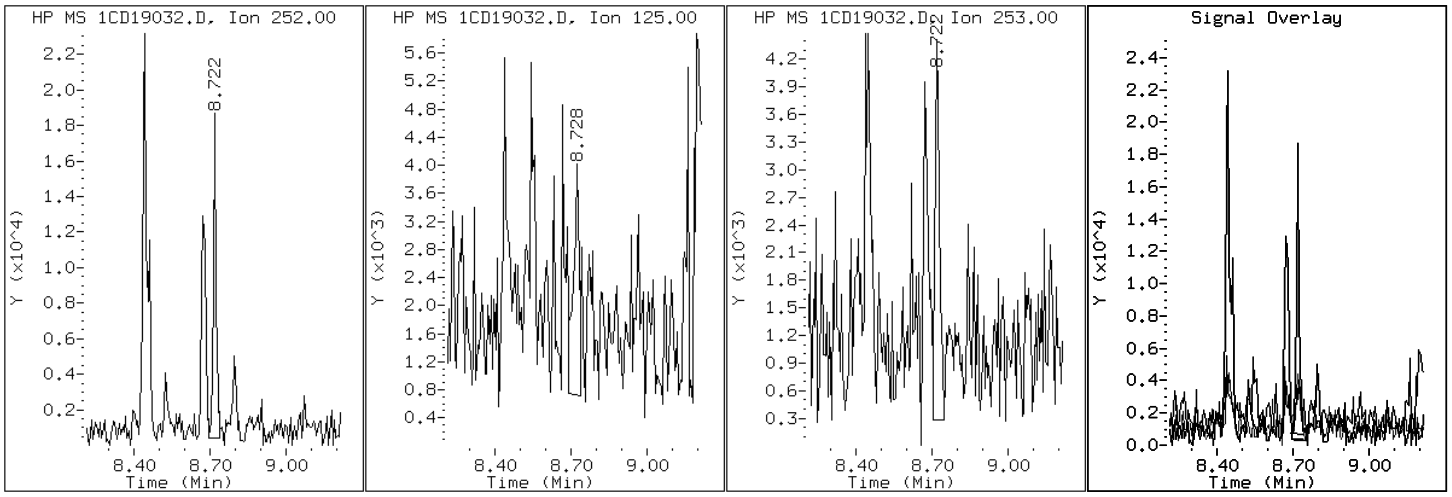
Client ID: CV0224A-CS

Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a

Operator: SCC

22 Benzo(a)pyrene



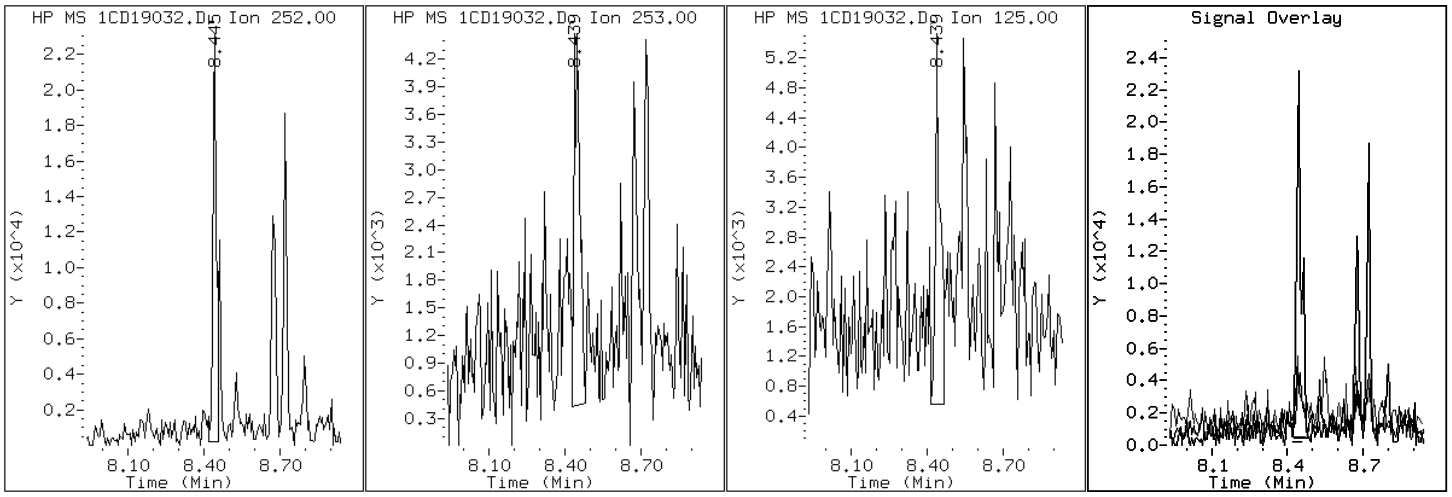
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD19032.D

Date: 19-APR-2013 20:37

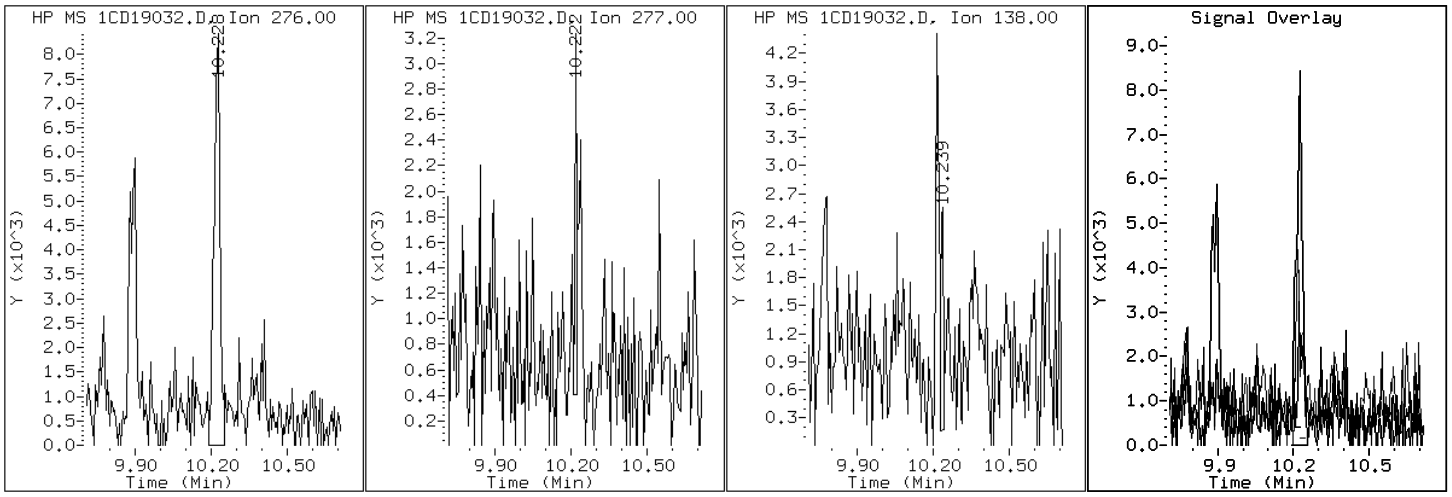
Client ID: CV0224A-CS

Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD19032.D

Date: 19-APR-2013 20:37

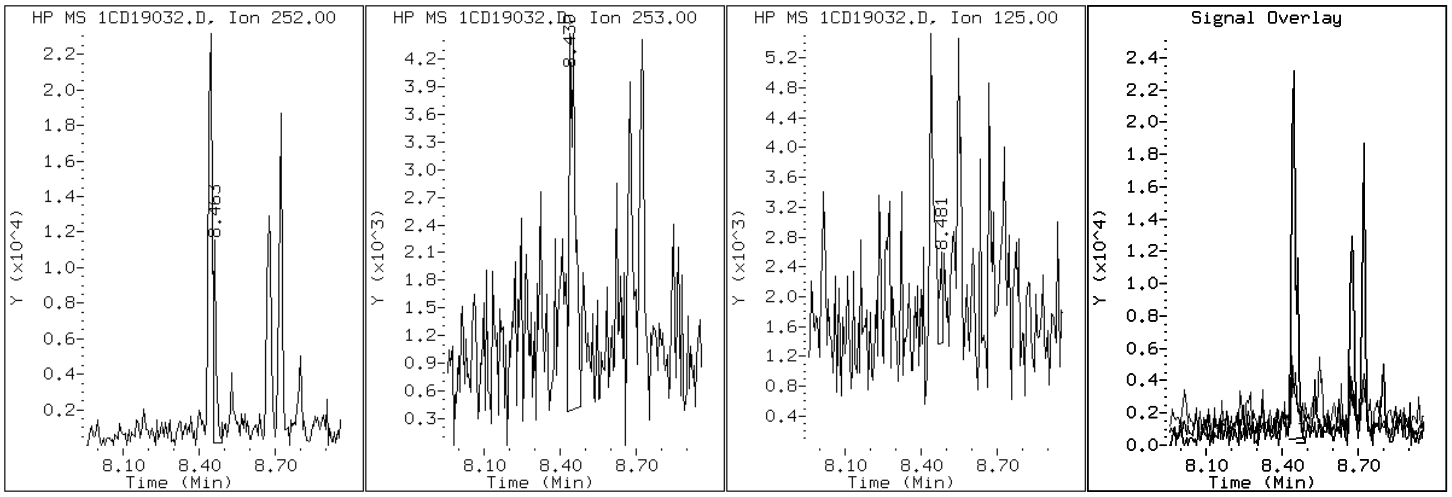
Client ID: CV0224A-CS

Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



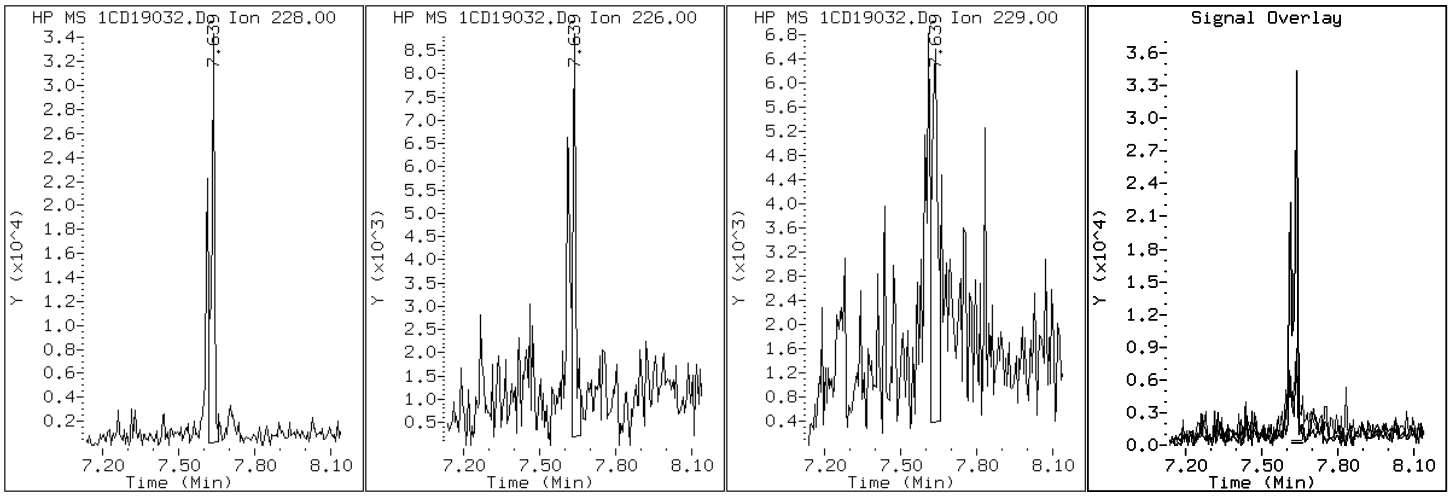
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

19 Chrysene



Data File: 1CD19032.D

Date: 19-APR-2013 20:37

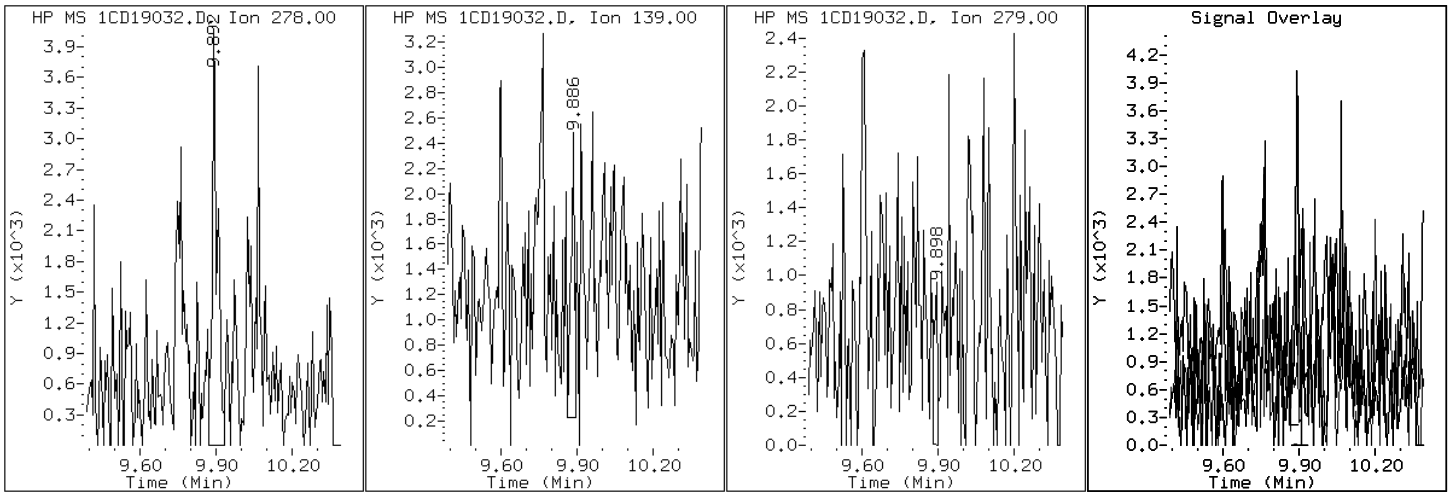
Client ID: CV0224A-CS

Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



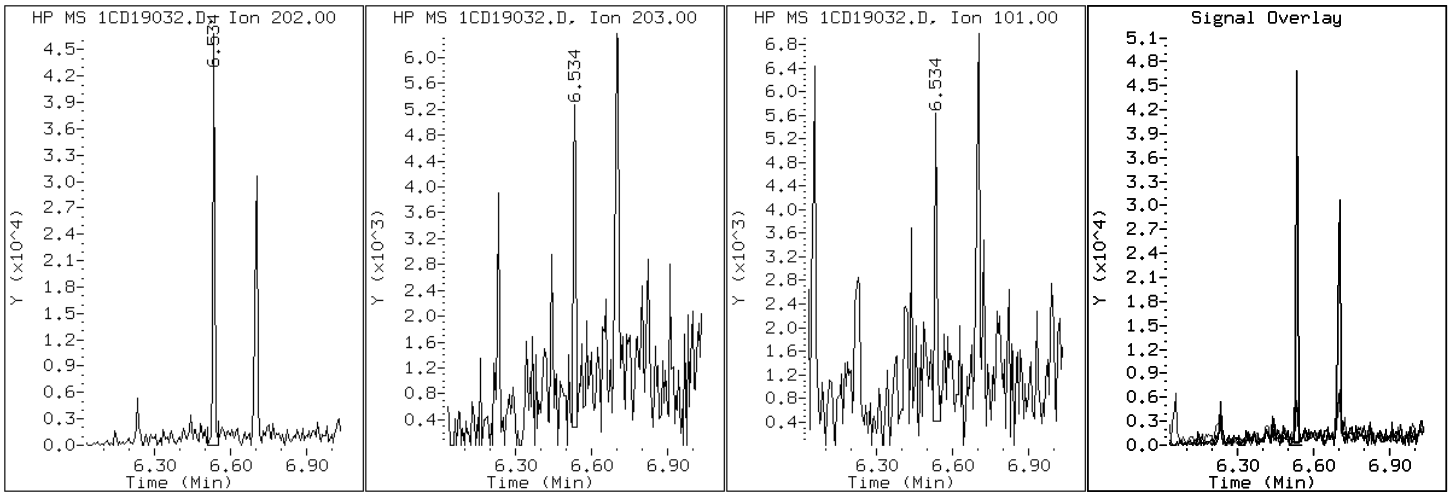
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

15 Fluoranthene



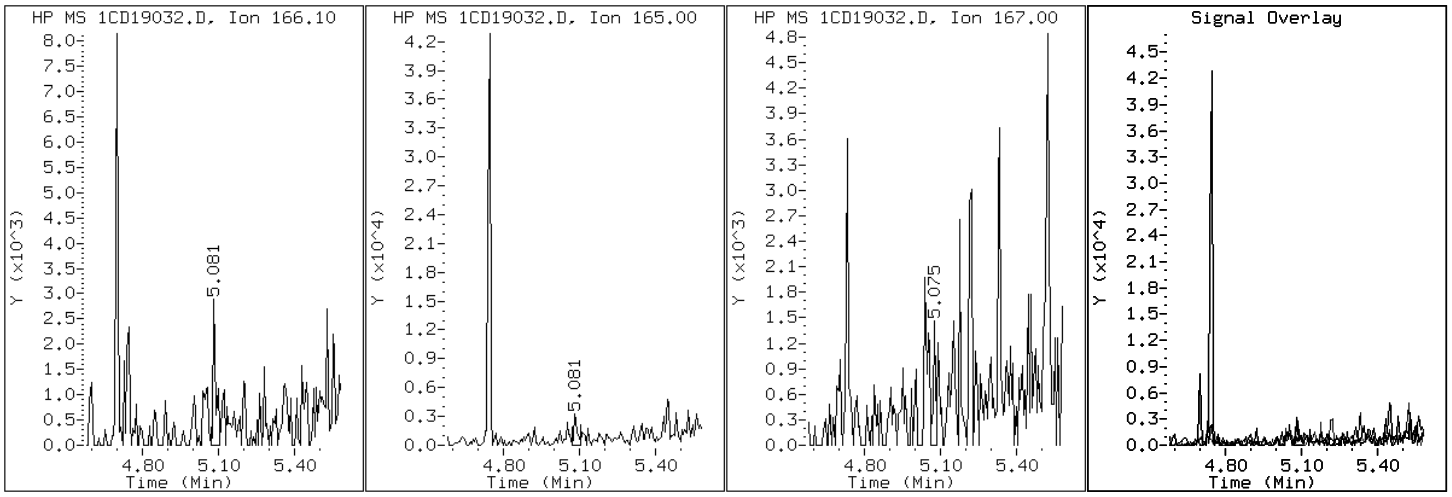
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

9 Fluorene



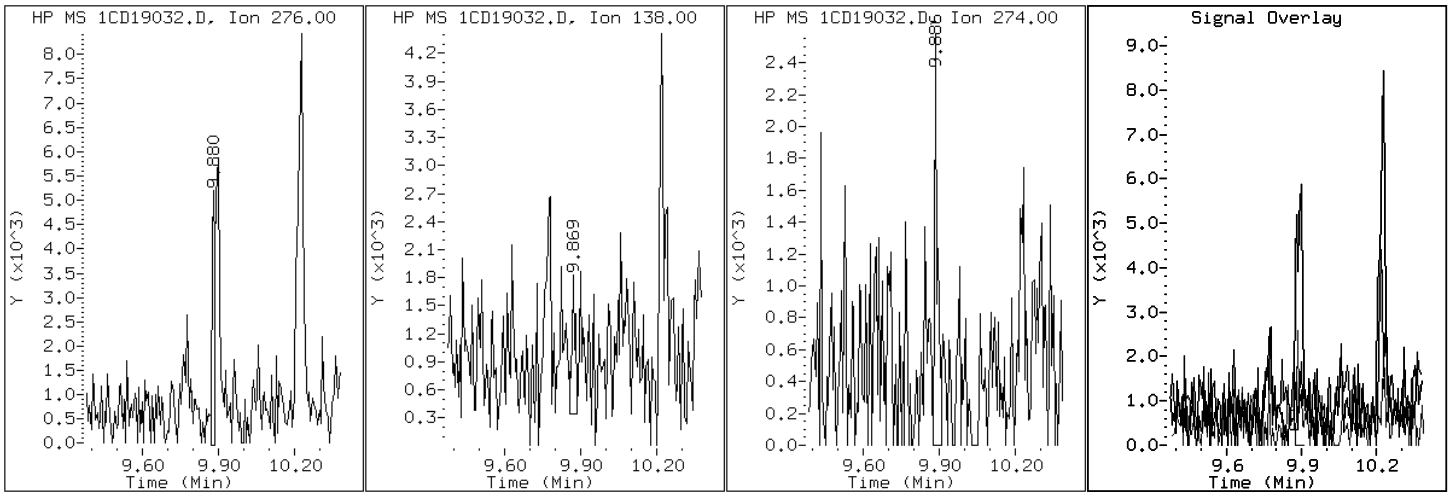
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

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



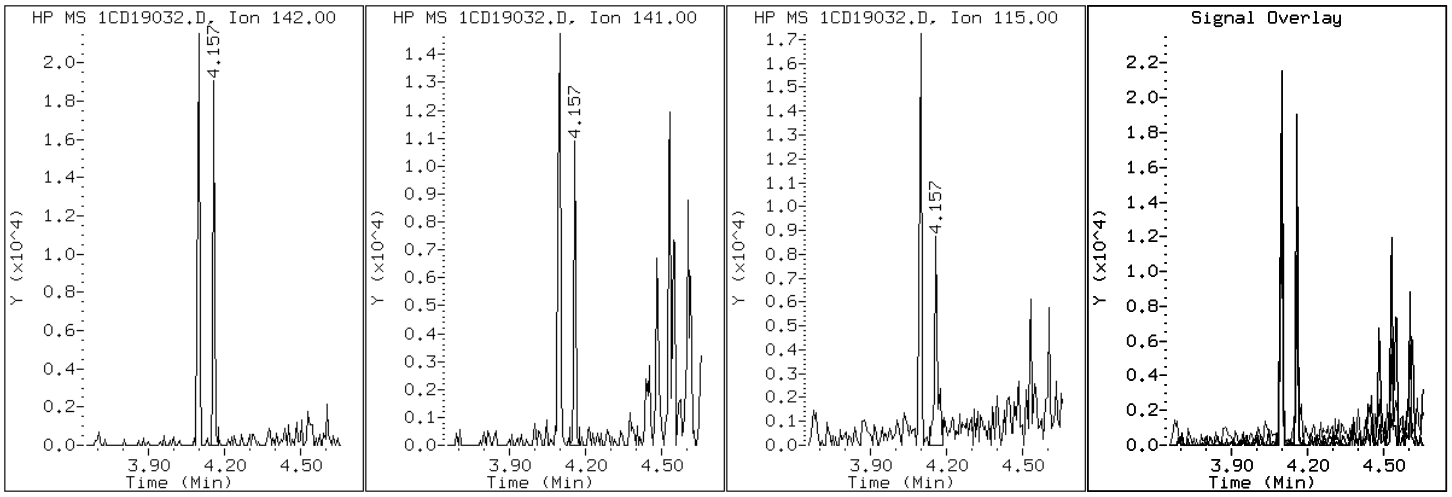
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

4 1-Methylnaphthalene



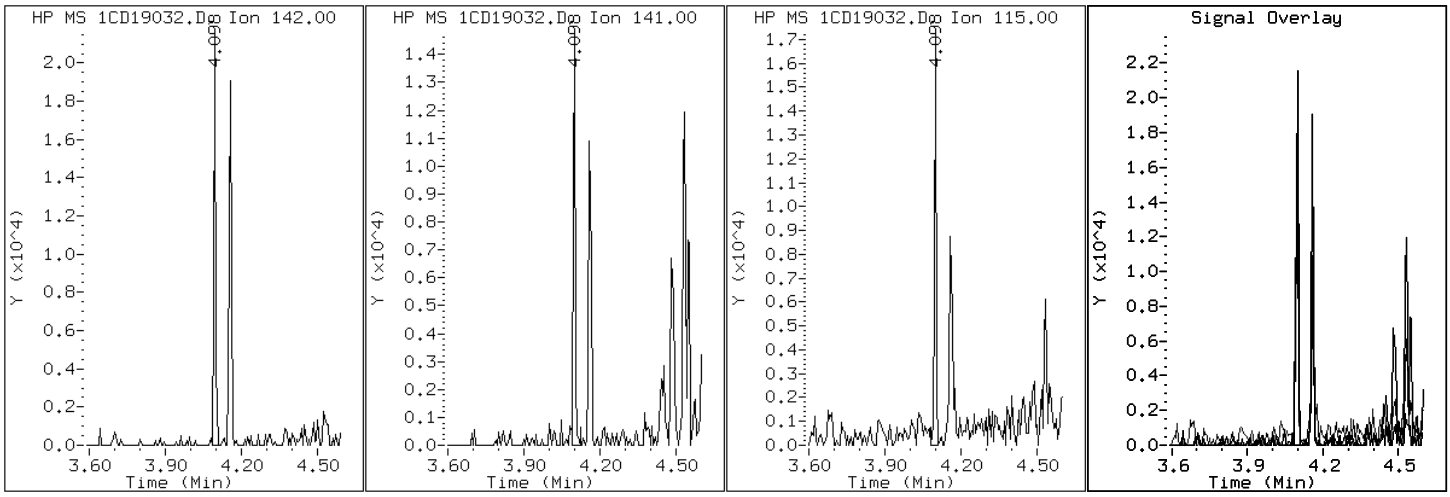
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

3 2-Methylnaphthalene



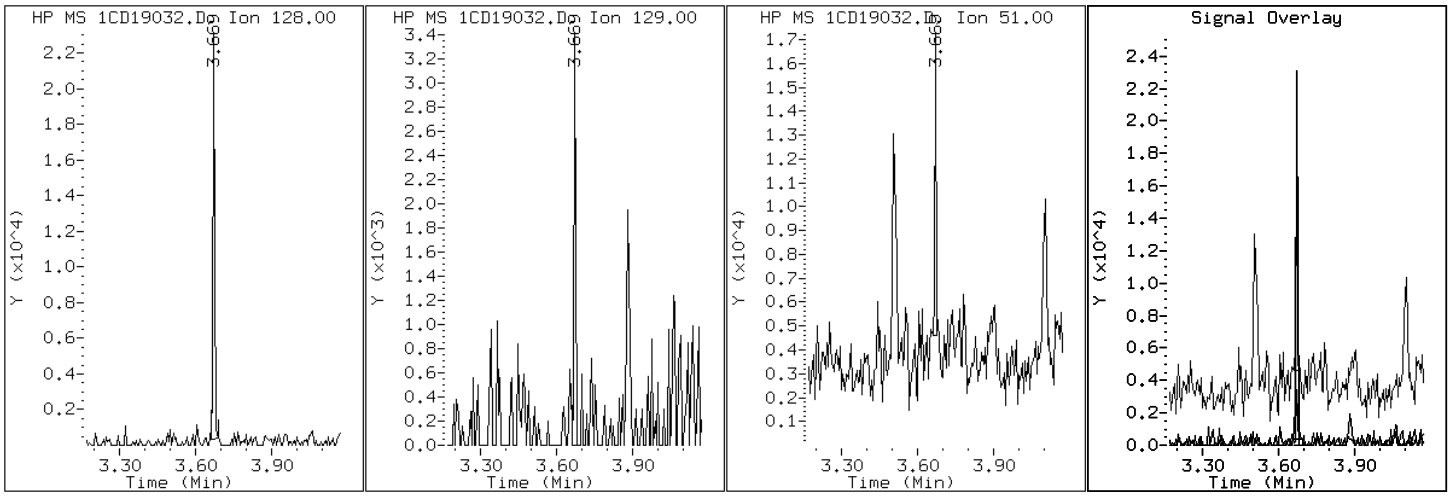
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

2 Naphthalene



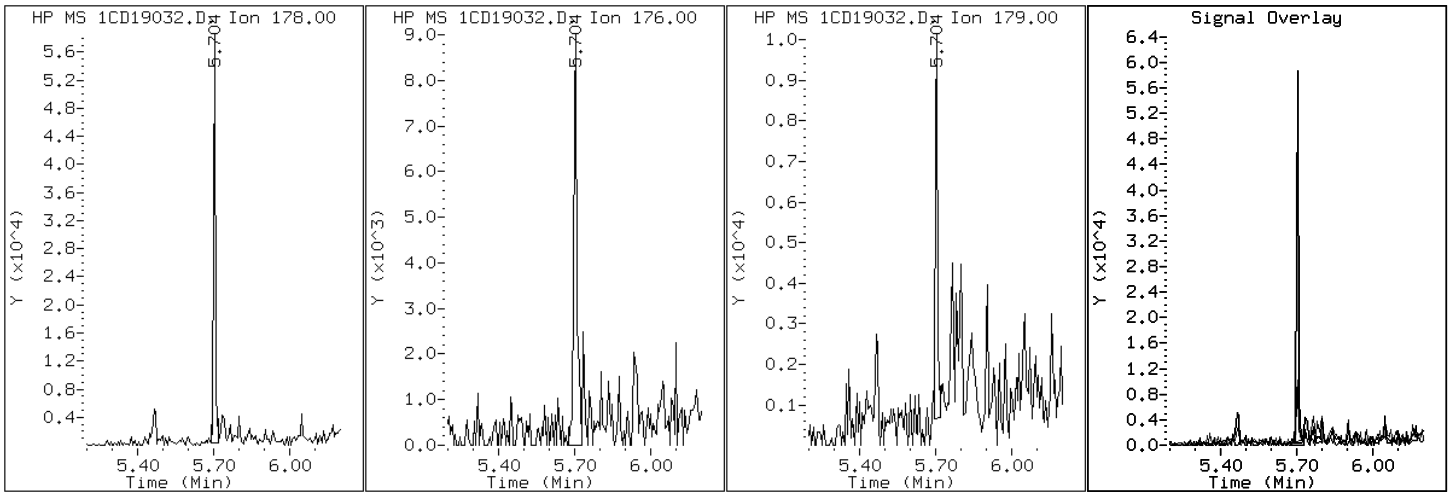
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

11 Phenanthrene



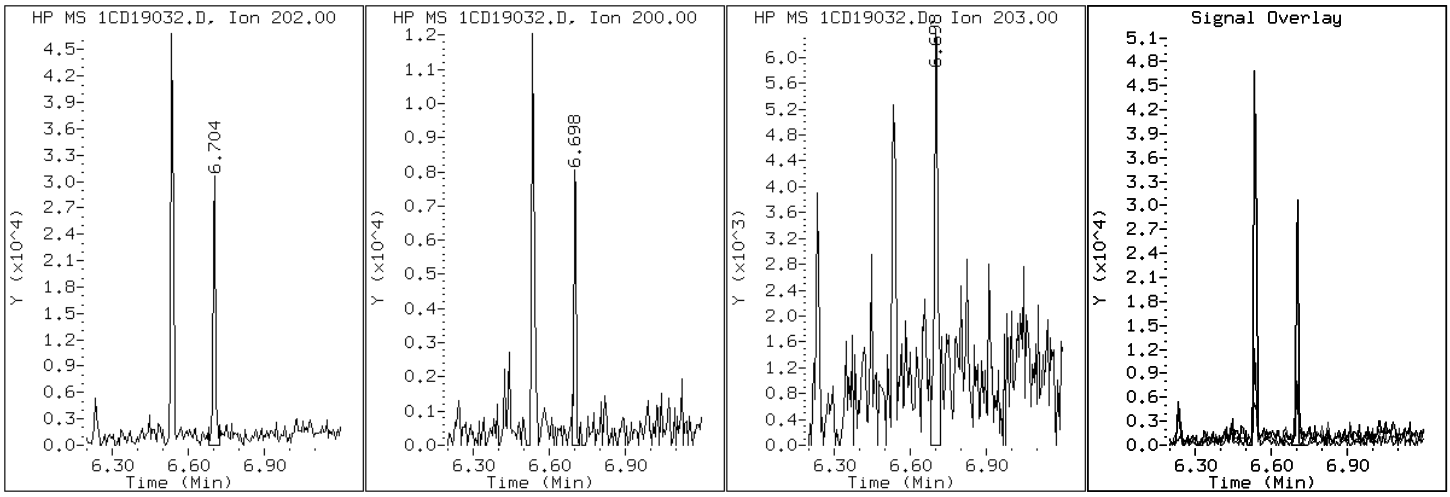
Data File: 1CD19032.D

Date: 19-APR-2013 20:37

Client ID: CV0224A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19032.D
Inj. Date and Time: 19-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0224A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/22/2013

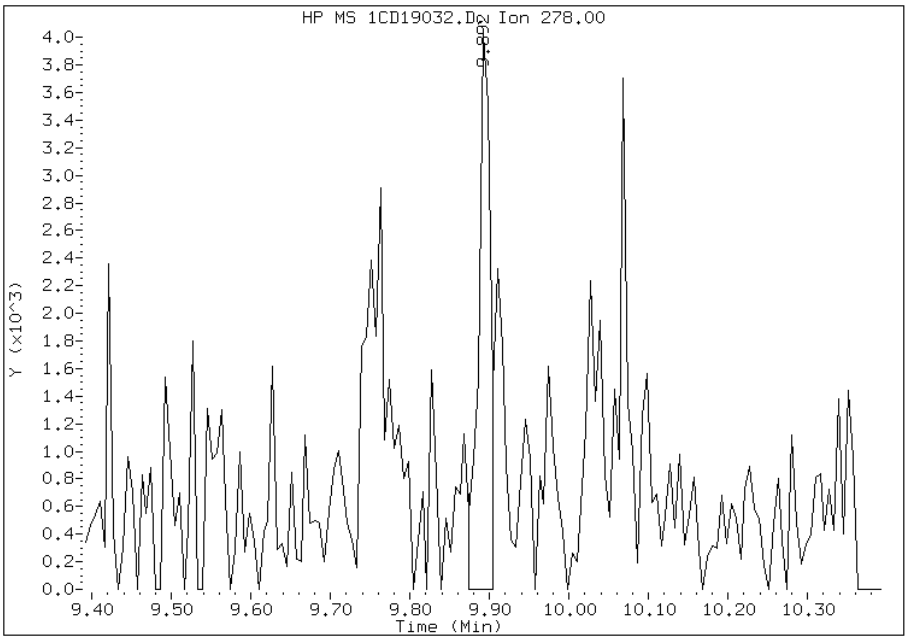
Processing Integration Results

RT: 9.89

Response: 4253

Amount: 1

Conc: 85



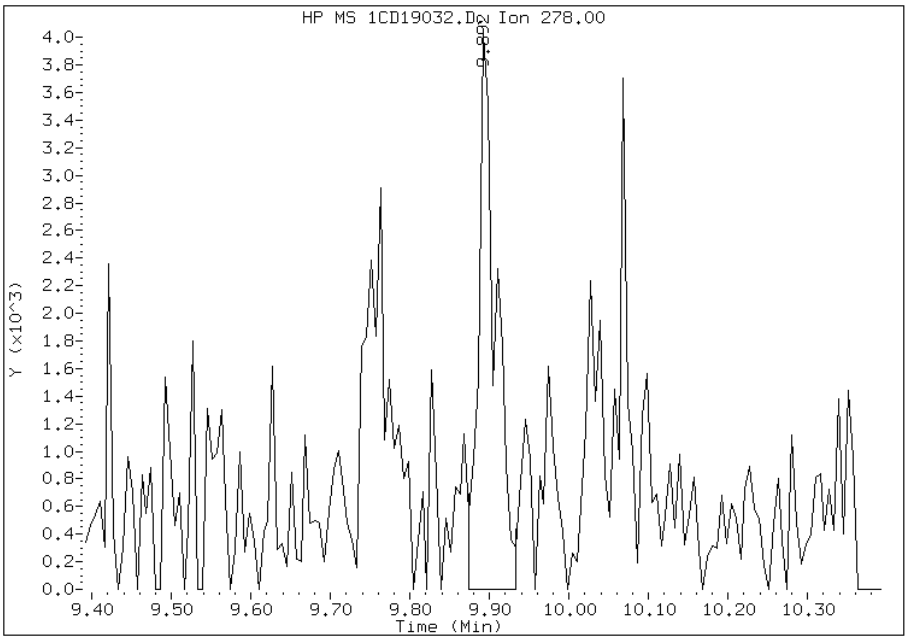
Manual Integration Results

RT: 9.89

Response: 6233

Amount: 1

Conc: 106



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19032.D
Inj. Date and Time: 19-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0224A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

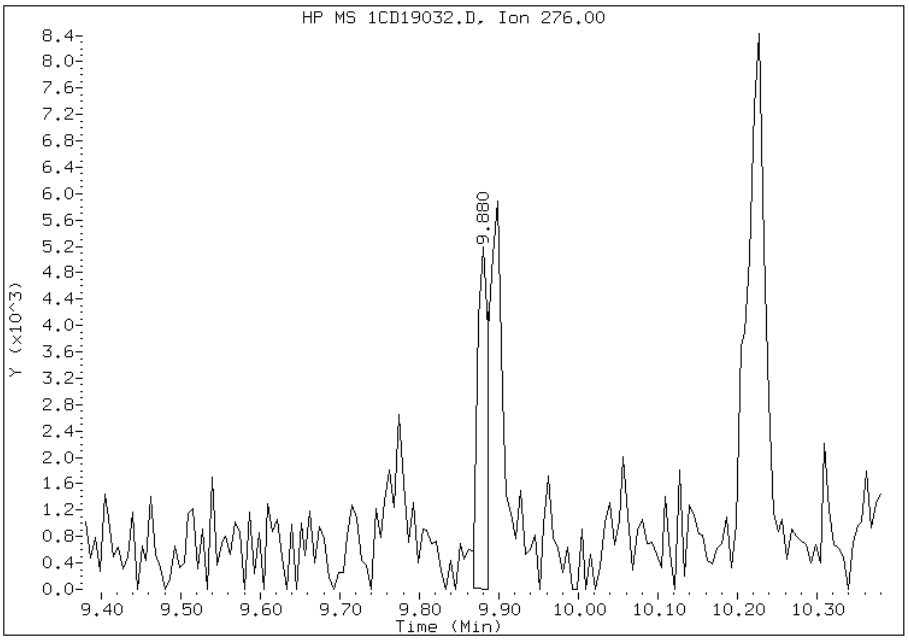
Processing Integration Results

RT: 9.88

Response: 4863

Amount: 1

Conc: 107



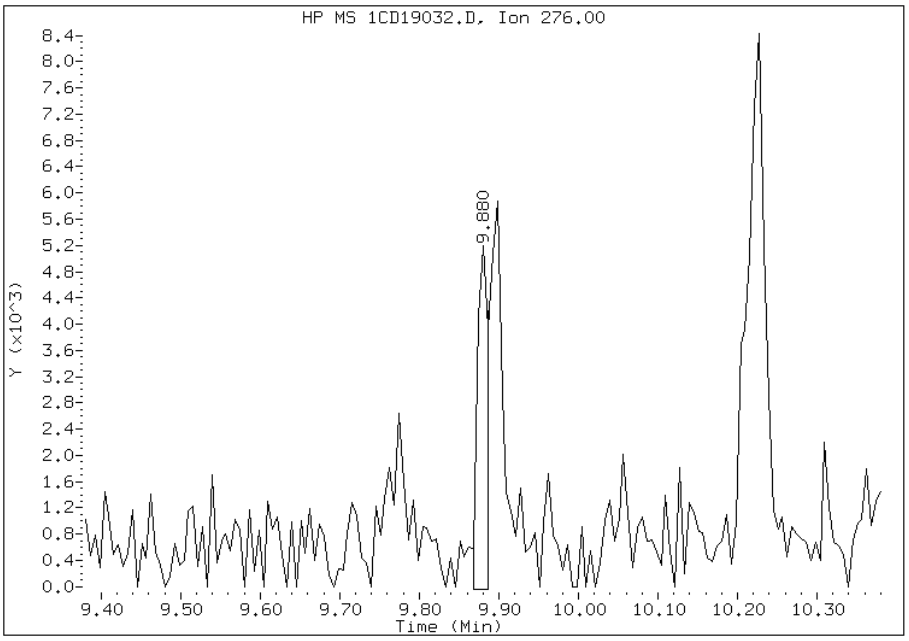
Manual Integration Results

RT: 9.88

Response: 4929

Amount: 1

Conc: 108



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:16
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0224B-CS | Lab Sample ID: 680-89328-10

Matrix: Solid | Lab File ID: 1CD19033.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 13:33

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.08(g) | Date Analyzed: 04/19/2013 20:55

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

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

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	26	J	120	23
208-96-8	Acenaphthylene	23	J	46	5.8
120-12-7	Anthracene	27		9.8	4.9
56-55-3	Benzo[a]anthracene	220		9.3	4.5
50-32-8	Benzo[a]pyrene	140		12	6.0
205-99-2	Benzo[b]fluoranthene	370		14	7.1
191-24-2	Benzo[g,h,i]perylene	200		23	5.1
207-08-9	Benzo[k]fluoranthene	78		9.3	4.2
218-01-9	Chrysene	440		10	5.2
53-70-3	Dibenz(a,h)anthracene	120		23	4.8
206-44-0	Fluoranthene	250		23	4.6
86-73-7	Fluorene	48		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		23	8.2
90-12-0	1-Methylnaphthalene	450		46	5.1
91-57-6	2-Methylnaphthalene	700		46	8.2
91-20-3	Naphthalene	440		46	5.1
85-01-8	Phenanthrene	640		9.3	4.5
129-00-0	Pyrene	300		23	4.3

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\1C041913.b\1CD19033.D
Lab Smp Id: 680-89328-A-10-A Client Smp ID: CV0224B-CS
Inj Date : 19-APR-2013 20:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-10-a
Misc Info : 680-89328-A-10-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	14.347	% 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	3.657	3.657	(1.000)	257947	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.739	(1.000)	183077	40.0000	
* 10 Phenanthrene-d10	188	5.686	5.686	(1.000)	315398	40.0000	
$ 14 o-Terphenyl	230	5.939	5.933	(1.044)	31319	6.68618	517.6469
* 18 Chrysene-d12	240	7.621	7.615	(1.000)	342848	40.0000	
* 23 Perylene-d12	264	8.780	8.768	(1.000)	333096	40.0000	
2 Naphthalene	128	3.669	3.669	(1.003)	39851	5.71528	442.4795
3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	40955	9.05510	701.0496
4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	25656	5.76034	445.9683
5 Acenaphthylene	152	4.657	4.657	(0.981)	2316	0.29854	23.1133(Q)
7 Acenaphthene	154	4.768	4.763	(1.005)	1562	0.33411	25.8670(Q)
9 Fluorene	166	5.080	5.080	(1.071)	3693	0.62074	48.0576(Q)
11 Phenanthrene	178	5.704	5.698	(1.003)	76289	8.25565	639.1559
12 Anthracene	178	5.733	5.733	(1.008)	3231	0.35287	27.3193(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	5172	0.60649	46.9546(Q)
15 Fluoranthene	202	6.533	6.533	(1.149)	32465	3.17302	245.6565
16 Pyrene	202	6.704	6.698	(0.880)	37949	3.89074	301.2229
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	27352	2.82123	218.4206
19 Chrysene	228	7.639	7.639	(1.002)	55006	5.73526	444.0264
20 Benzo(b)fluoranthene	252	8.445	8.439	(0.962)	40003	4.75482	368.1198(M)
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.963)	9586	1.00694	77.9576(QM)
22 Benzo(a)pyrene	252	8.727	8.715	(0.994)	15571	1.79048	138.6197
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.880	(1.127)	6970	1.44614	111.9604(QM)
25 Dibenzo(a,h)anthracene	278	9.909	9.892	(1.129)	9050	1.50804	116.7528
26 Benzo(g,h,i)perylene	276	10.233	10.209	(1.165)	21398	2.62510	203.2362

QC Flag Legend

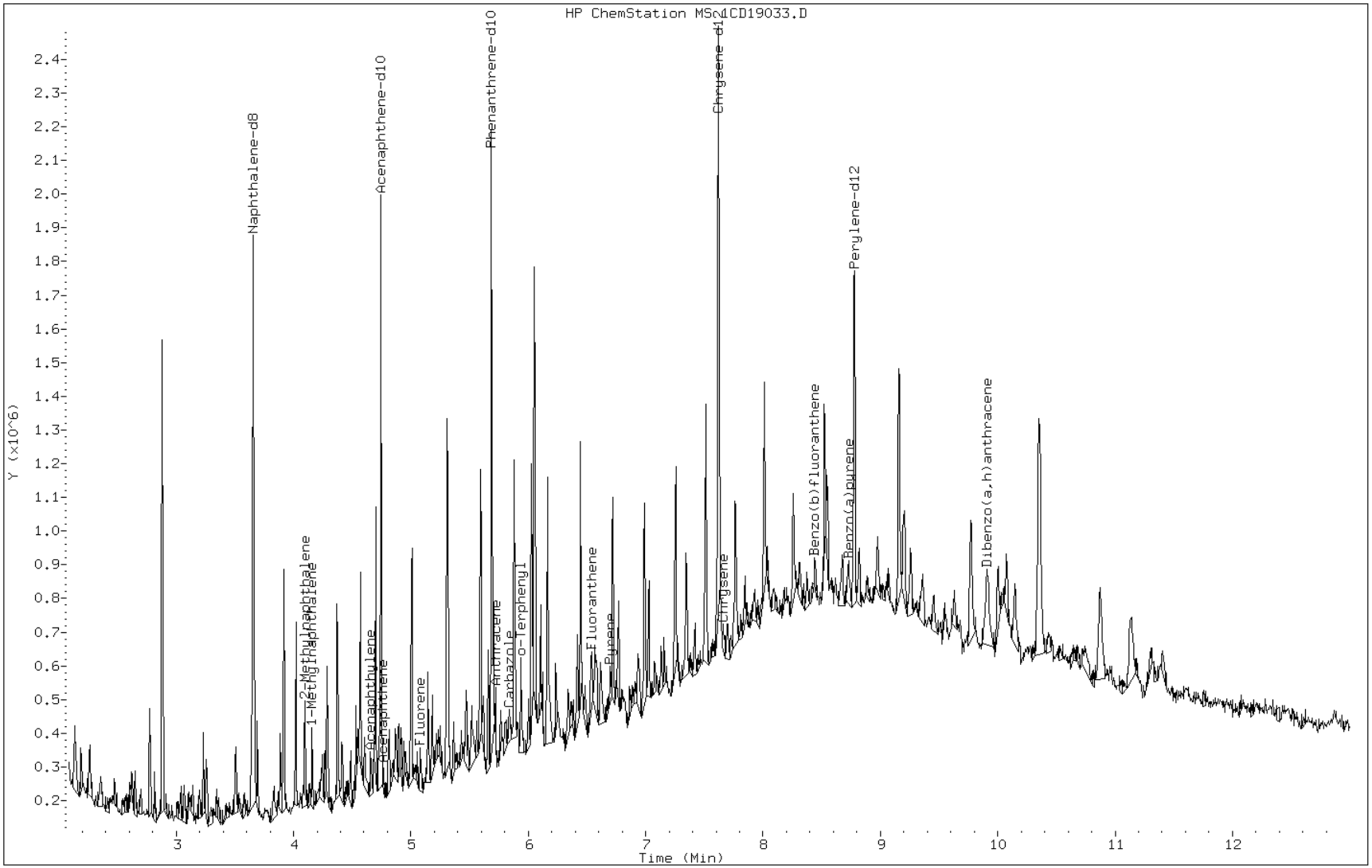
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC



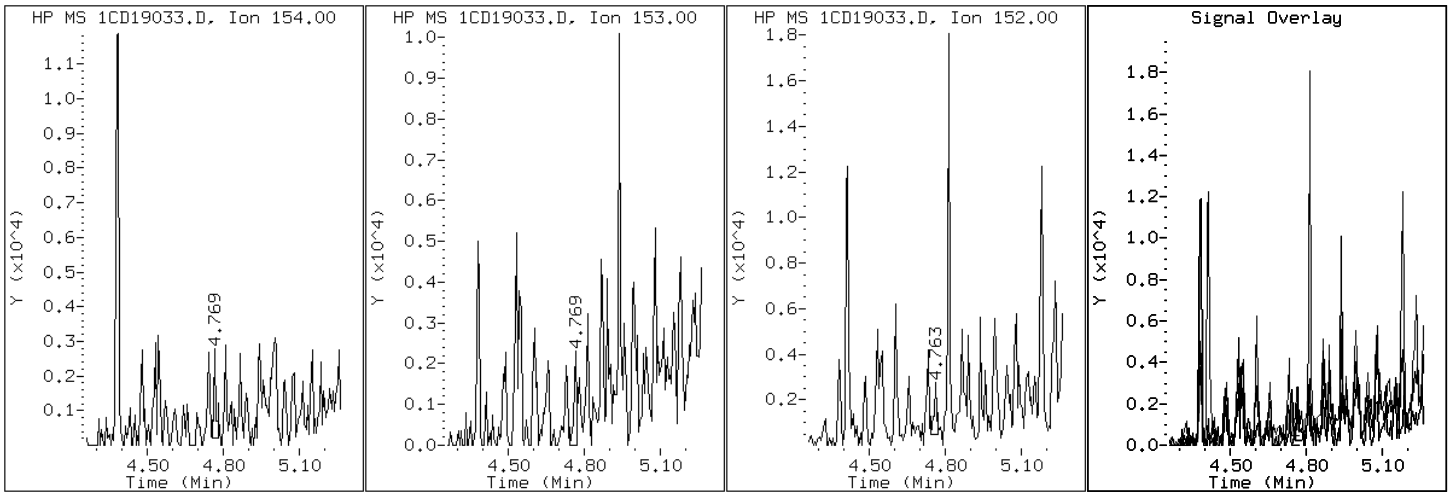
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

7 Acenaphthene



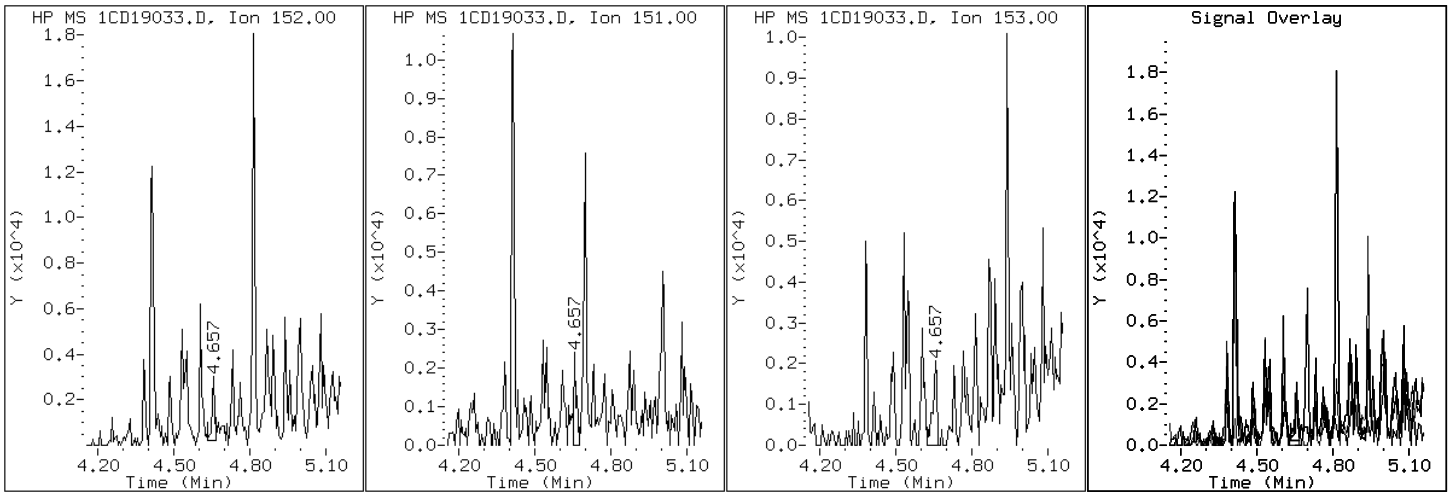
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

5 Acenaphthylene



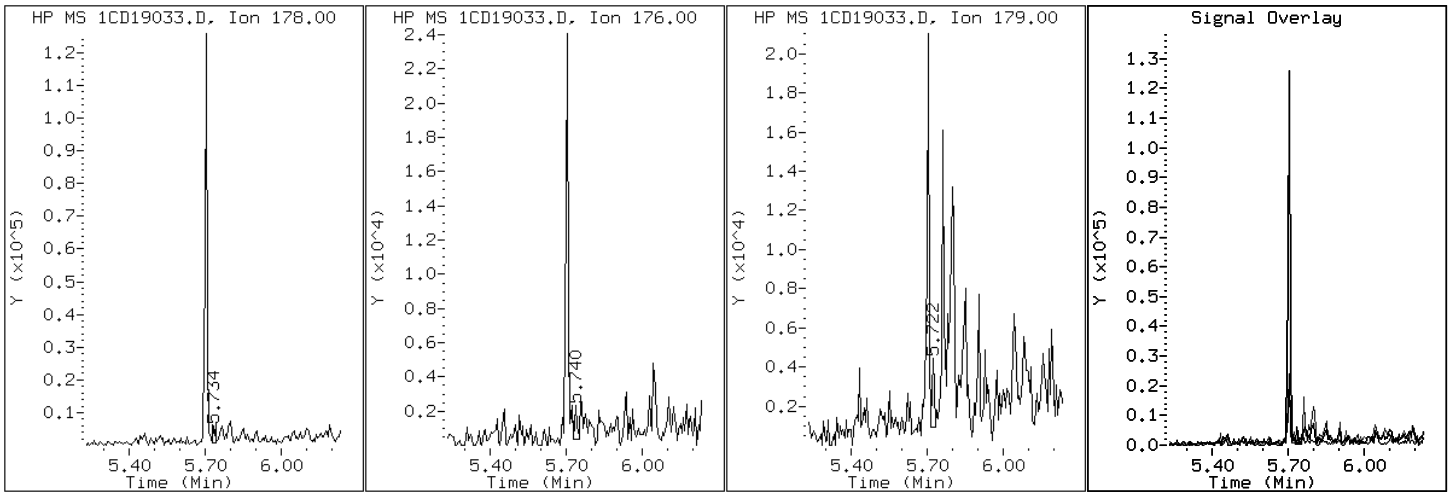
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

12 Anthracene



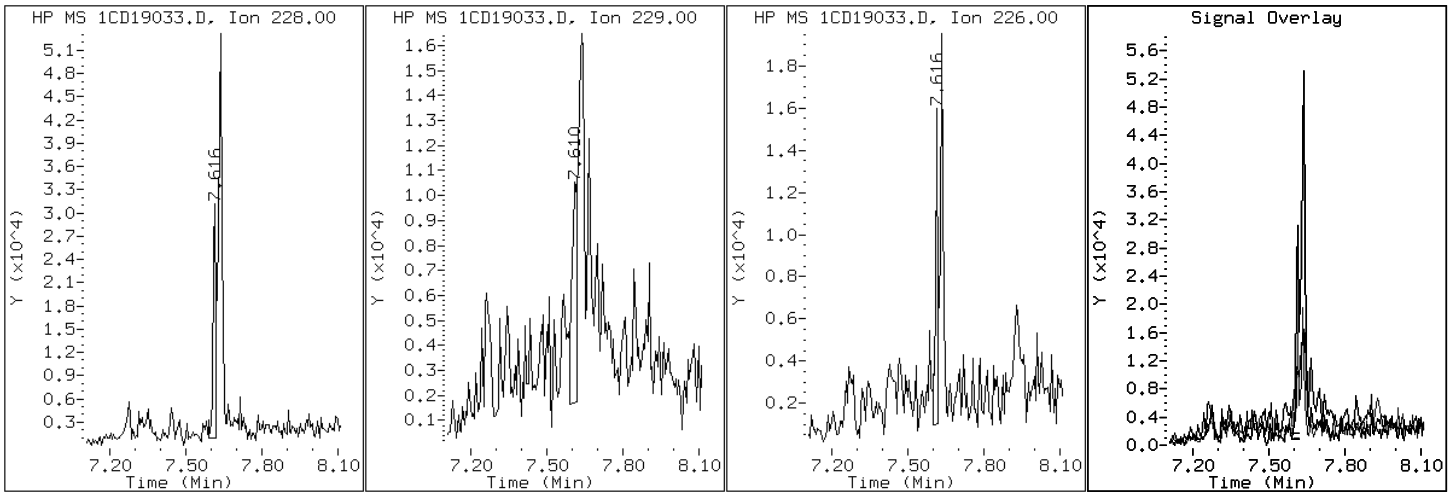
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

17 Benzo(a)anthracene



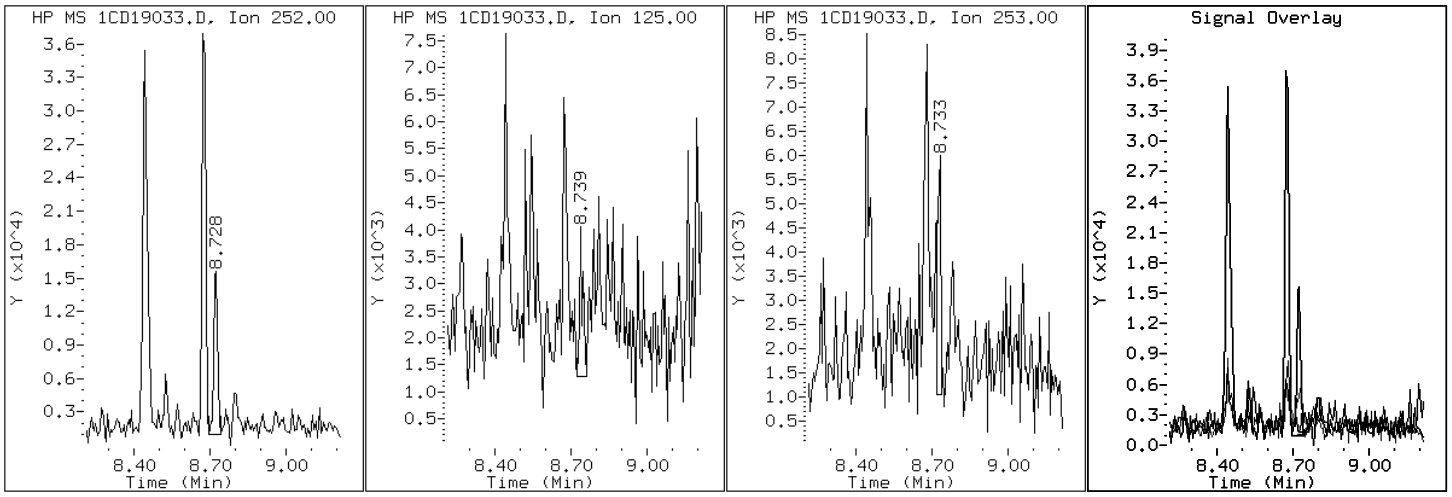
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

22 Benzo(a)pyrene



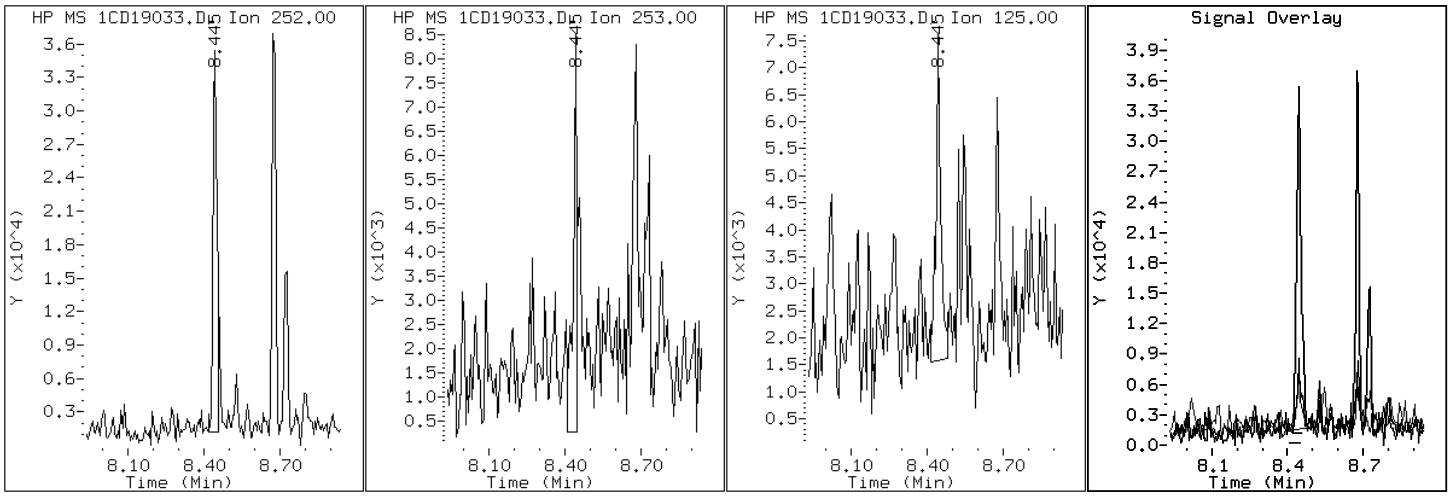
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



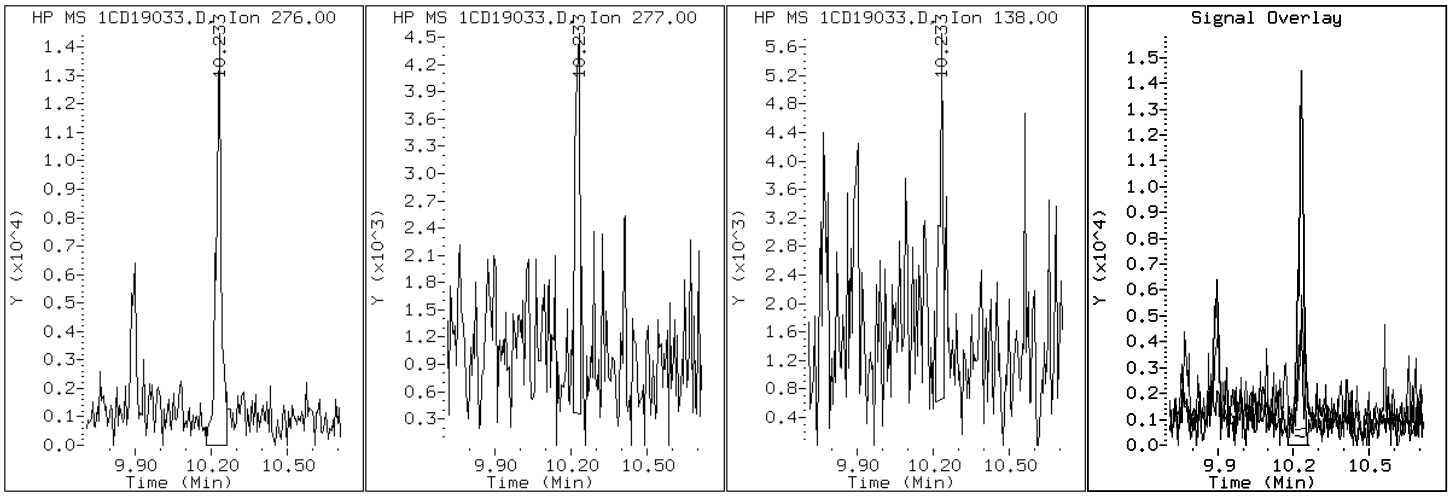
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



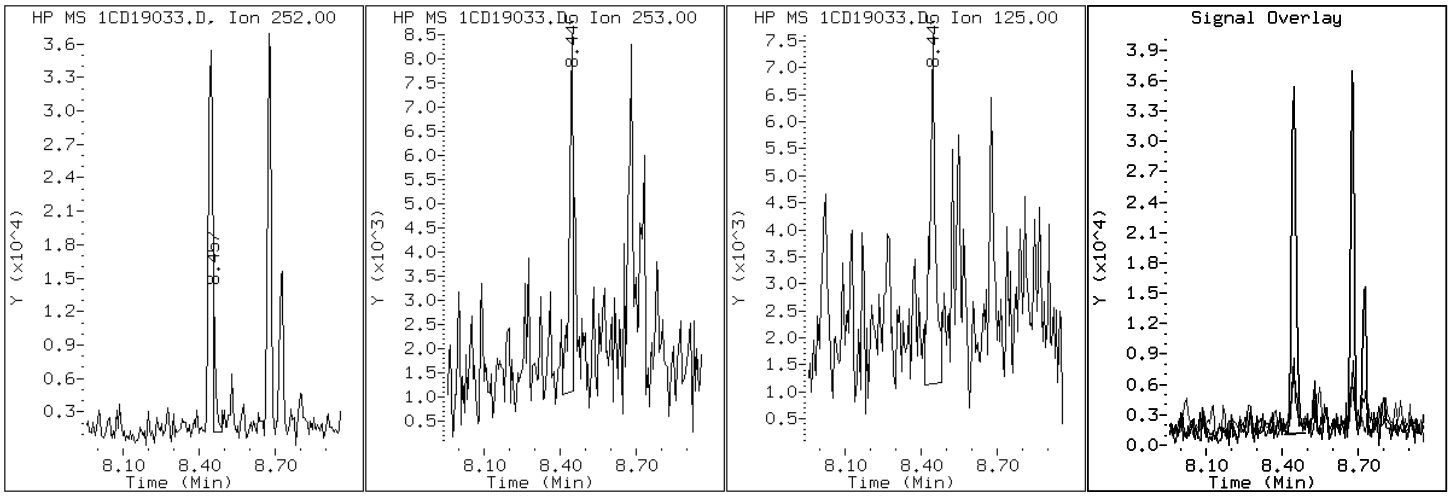
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



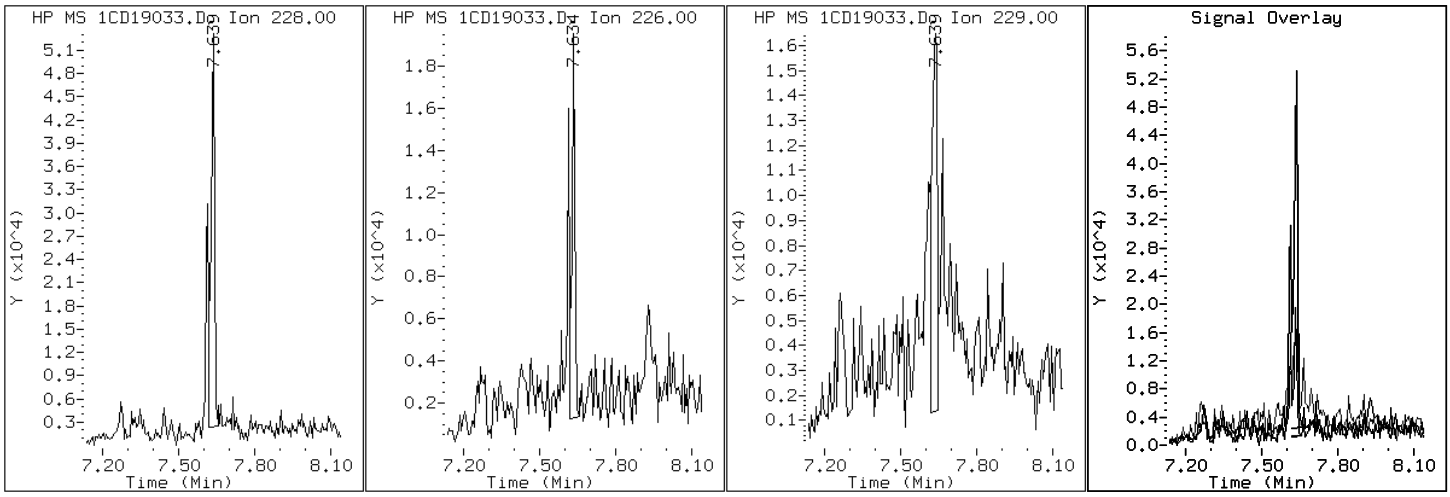
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

19 Chrysene



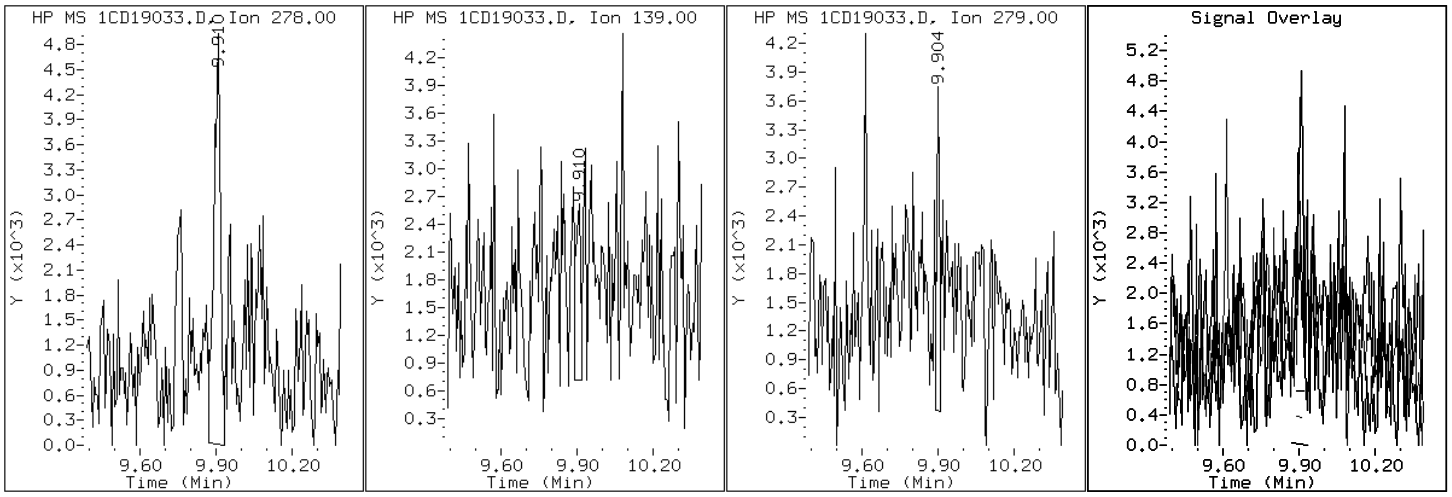
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



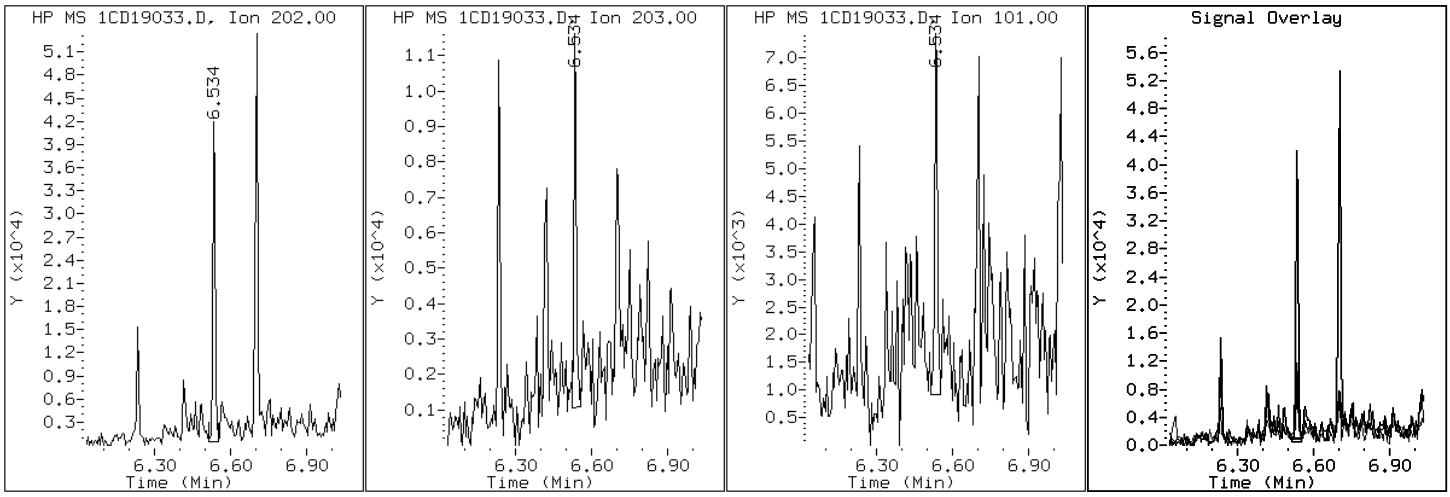
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

15 Fluoranthene



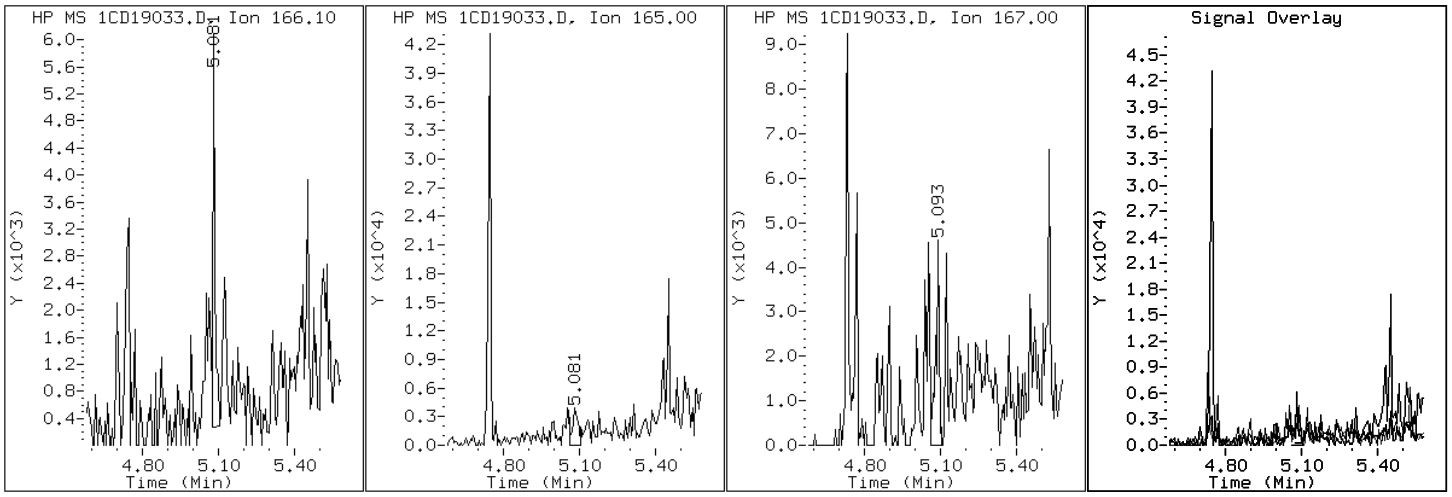
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

9 Fluorene



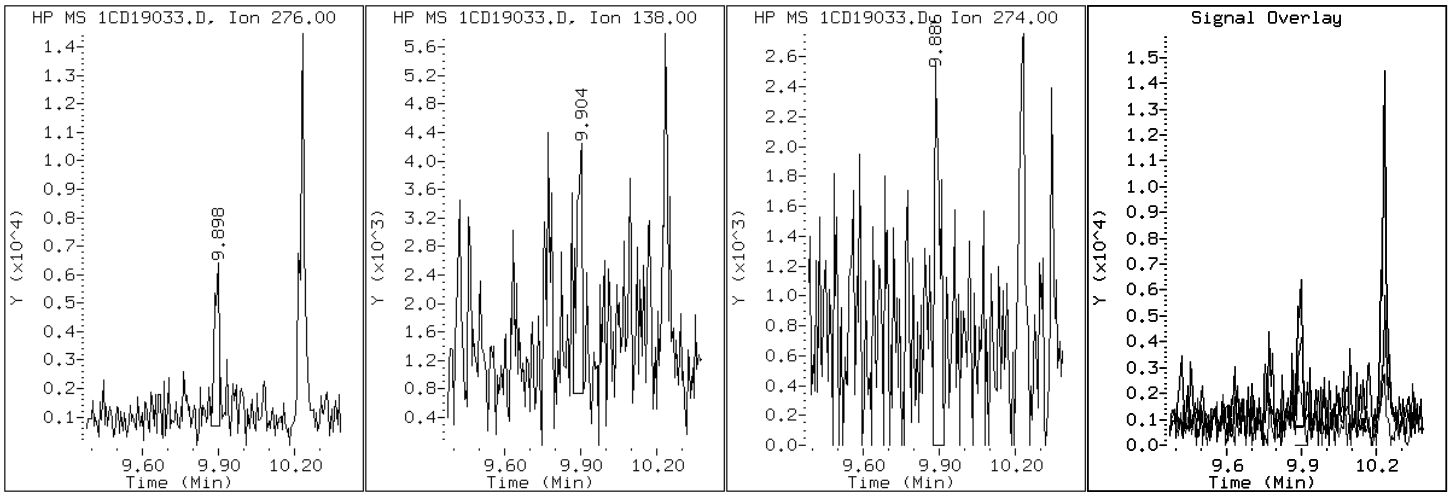
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

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



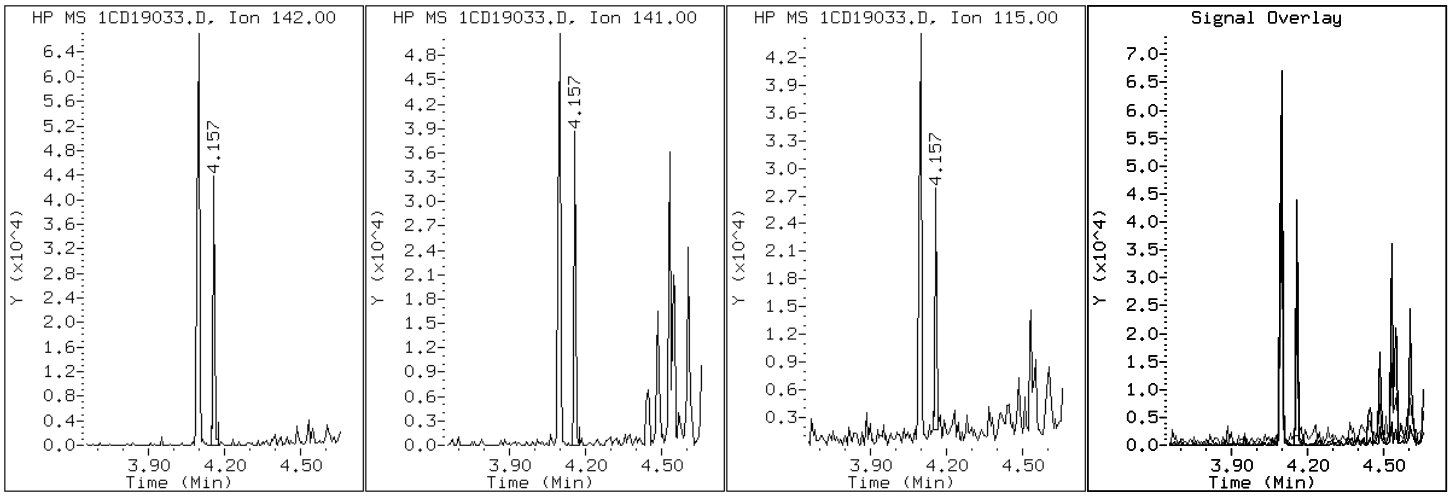
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

4 1-Methylnaphthalene



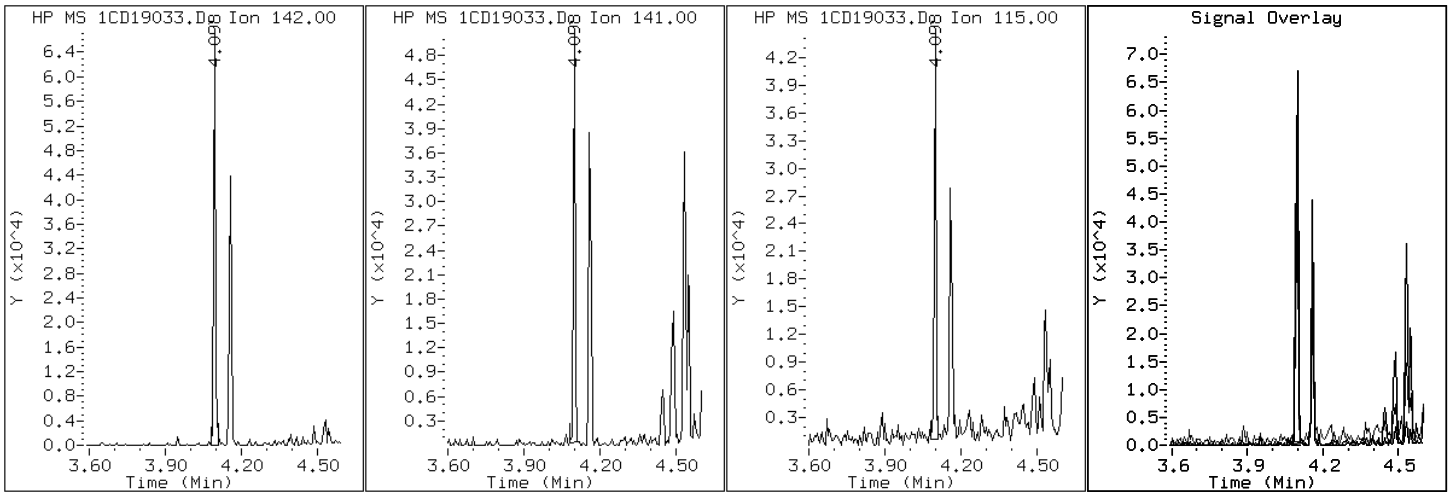
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

3 2-Methylnaphthalene



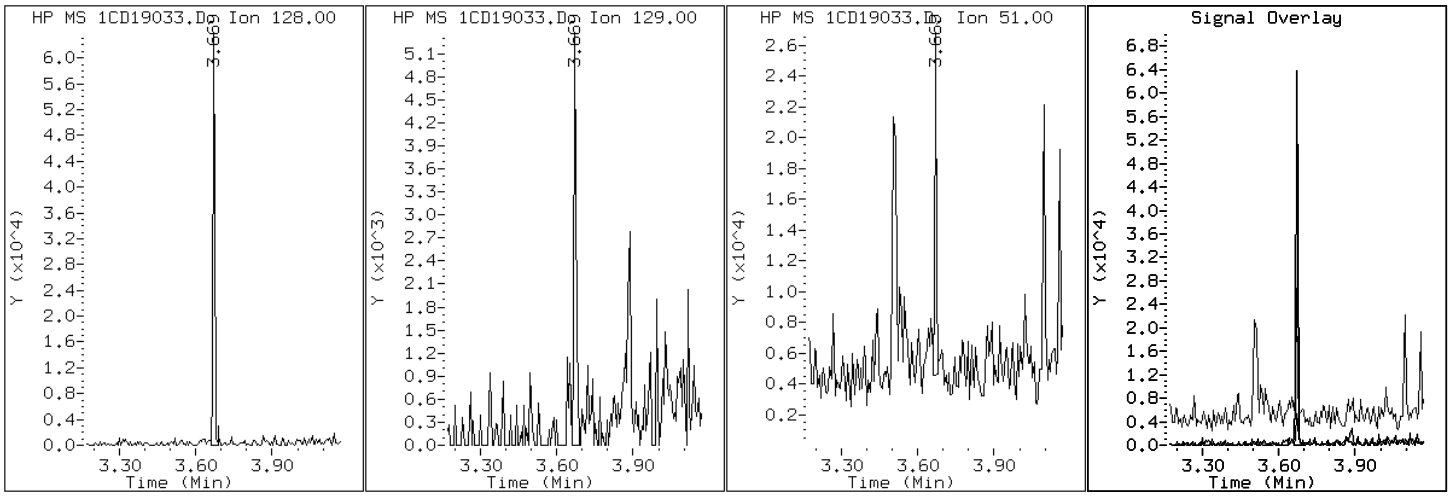
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

2 Naphthalene



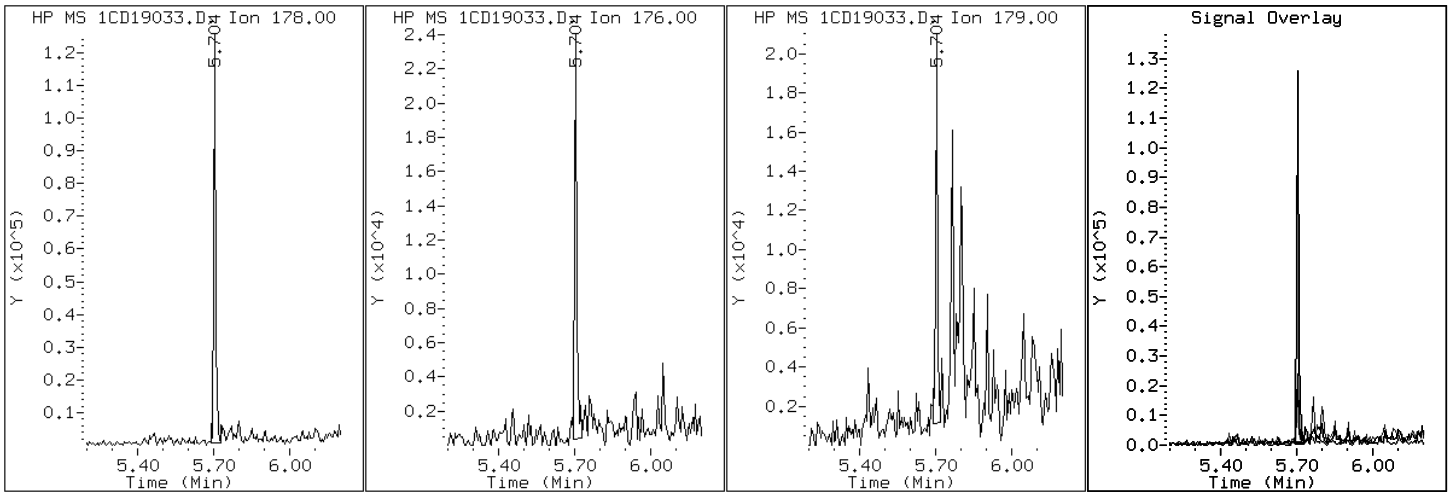
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

11 Phenanthrene



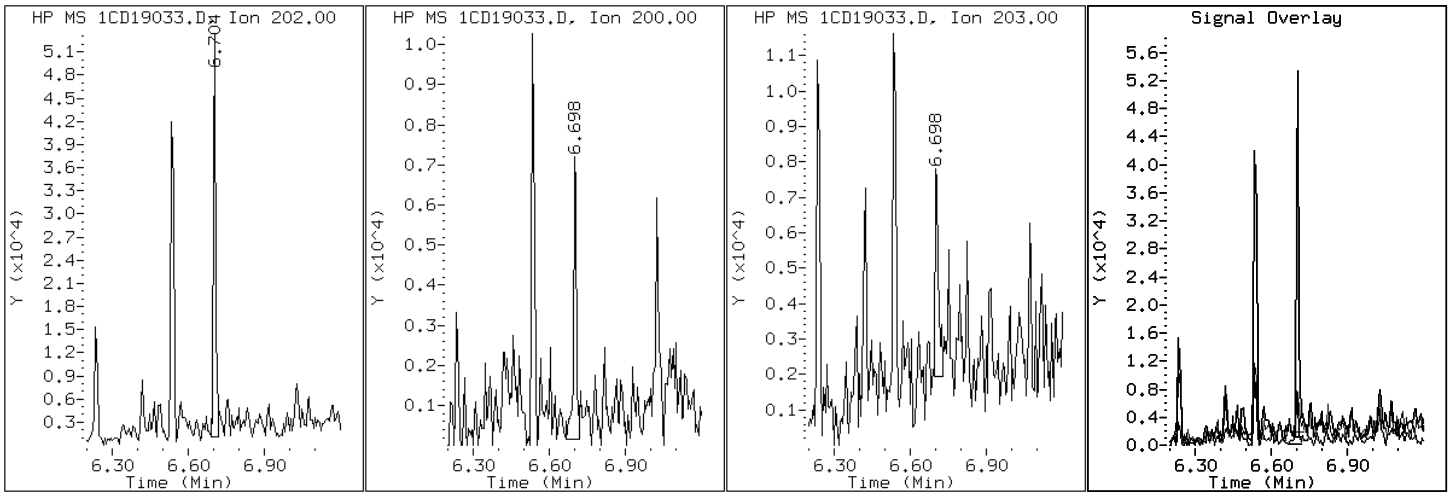
Data File: 1CD19033.D

Date: 19-APR-2013 20:55

Client ID: CV0224B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19033.D
Inj. Date and Time: 19-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: CV0224B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

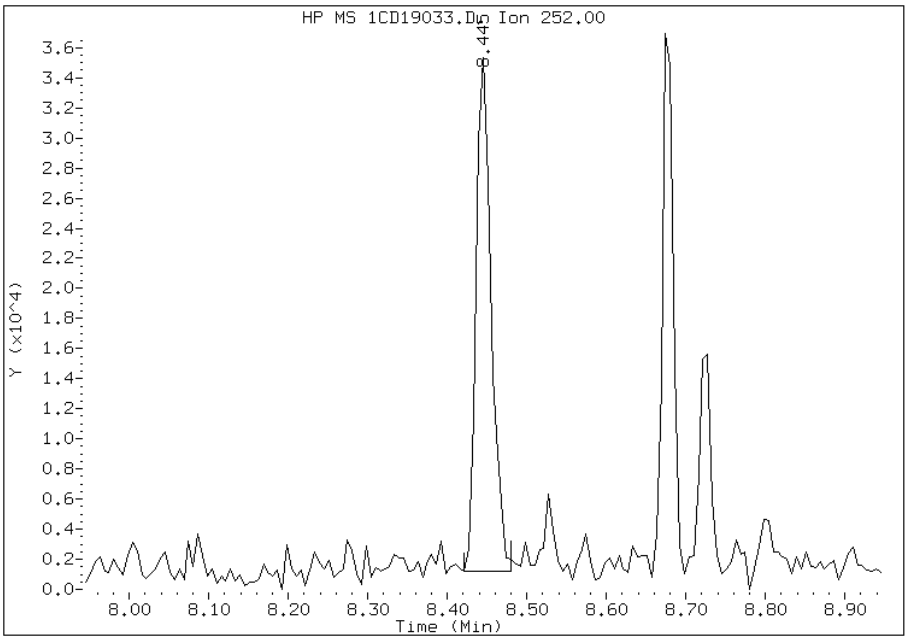
Processing Integration Results

RT: 8.45

Response: 44629

Amount: 5

Conc: 411



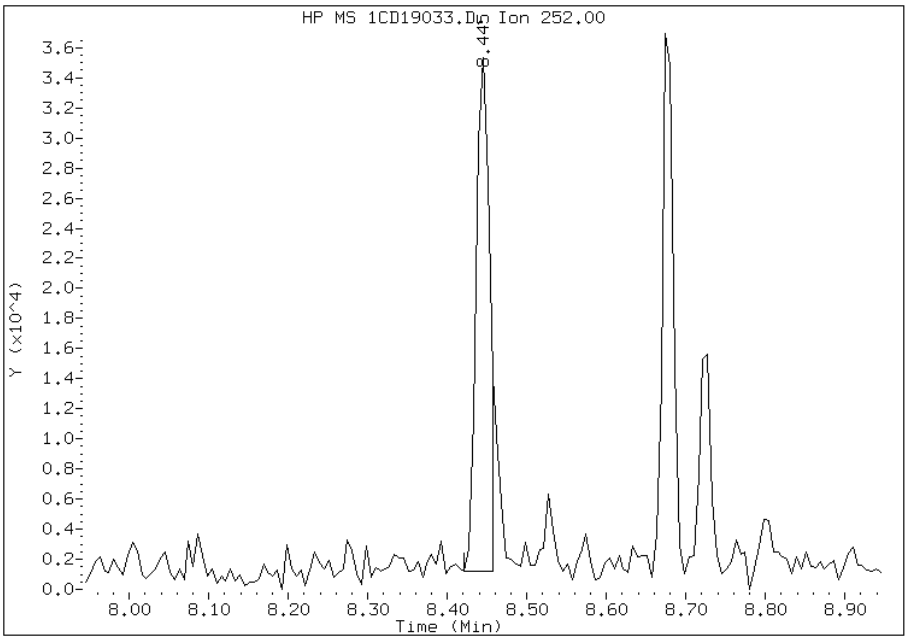
Manual Integration Results

RT: 8.45

Response: 40003

Amount: 5

Conc: 368



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19033.D
Inj. Date and Time: 19-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: CV0224B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

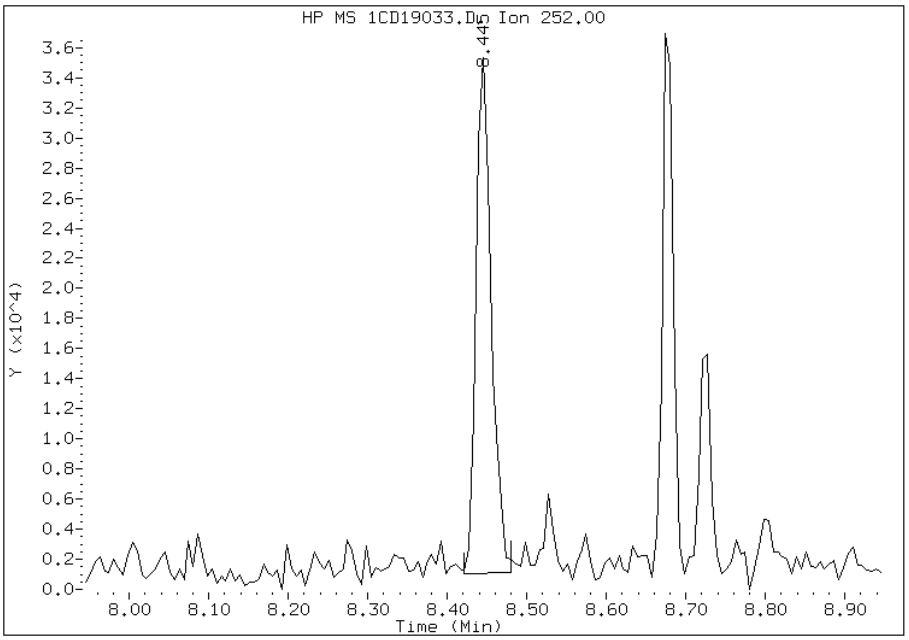
Processing Integration Results

RT: 8.45

Response: 45164

Amount: 5

Conc: 367



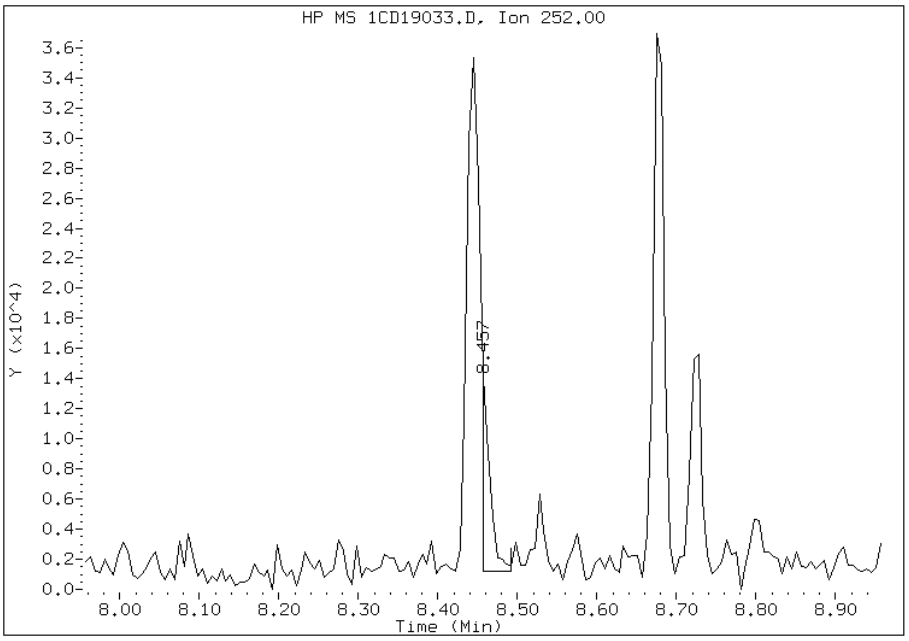
Manual Integration Results

RT: 8.46

Response: 9586

Amount: 1

Conc: 78



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19033.D
Inj. Date and Time: 19-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: CV0224B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

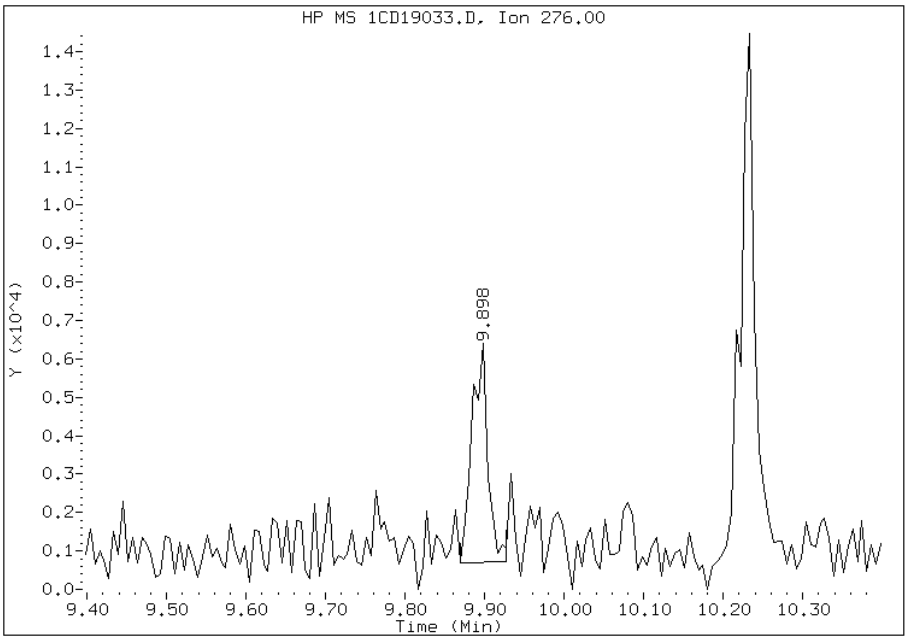
Processing Integration Results

RT: 9.90

Response: 7751

Amount: 2

Conc: 119



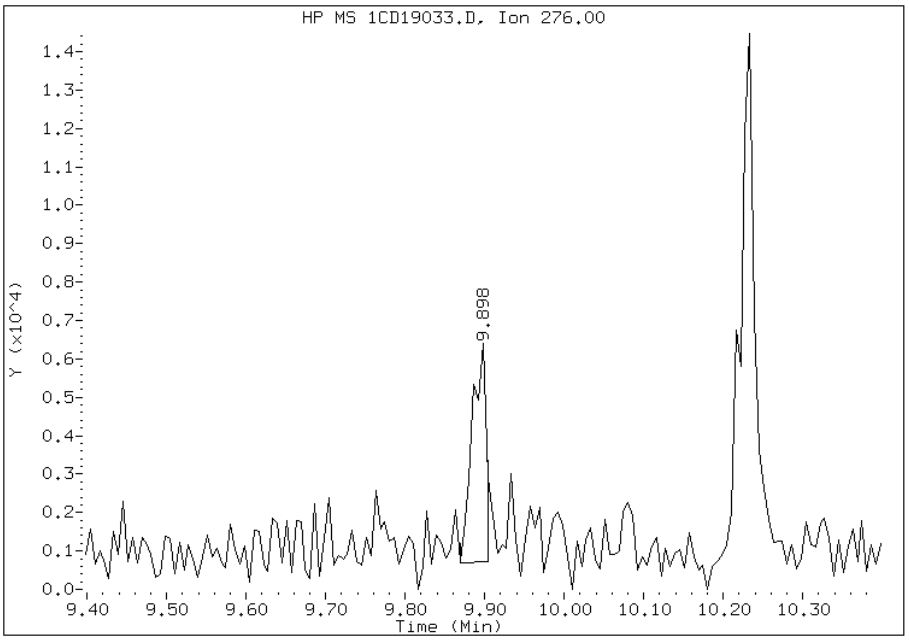
Manual Integration Results

RT: 9.90

Response: 6970

Amount: 1

Conc: 112



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0401A-CS | Lab Sample ID: 680-89328-11

Matrix: Solid | Lab File ID: 1CD19034.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 08:40

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 14.93(g) | Date Analyzed: 04/19/2013 21:13

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

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

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	43	J	130	25
208-96-8	Acenaphthylene	58		50	6.3
120-12-7	Anthracene	160		11	5.3
56-55-3	Benzo[a]anthracene	780		10	4.9
50-32-8	Benzo[a]pyrene	710		13	6.5
205-99-2	Benzo[b]fluoranthene	1300		15	7.6
191-24-2	Benzo[g,h,i]perylene	560		25	5.5
207-08-9	Benzo[k]fluoranthene	430		10	4.5
218-01-9	Chrysene	830		11	5.6
53-70-3	Dibenz(a,h)anthracene	220		25	5.1
206-44-0	Fluoranthene	1400		25	5.0
86-73-7	Fluorene	48		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	450		25	8.9
90-12-0	1-Methylnaphthalene	87		50	5.5
91-57-6	2-Methylnaphthalene	190		50	8.9
91-20-3	Naphthalene	120		50	5.5
85-01-8	Phenanthrene	810		10	4.9
129-00-0	Pyrene	1200		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19034.D
Lab Smp Id: 680-89328-A-11-A Client Smp ID: CV0401A-CS
Inj Date : 19-APR-2013 21:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-11-a
Misc Info : 680-89328-A-11-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	19.683	% 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	3.657	3.657	(1.000)	234810	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	159087	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	296275	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	26063	6.00193	500.5237
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	315147	40.0000	
*	23 Perylene-d12	264	8.774	8.768	(1.000)	303636	40.0000	
	2 Naphthalene	128	3.668	3.669	(1.003)	9351	1.47323	122.8582(Q)
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	8361	2.24231	186.9952
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	4247	1.04750	87.3553
	5 Acenaphthylene	152	4.657	4.657	(0.981)	4672	0.69306	57.7970
	7 Acenaphthene	154	4.763	4.763	(1.004)	2098	0.51643	43.0673(Q)
	9 Fluorene	166	5.080	5.080	(1.071)	2999	0.58010	48.3767
	11 Phenanthrene	178	5.704	5.698	(1.003)	84356	9.72136	810.7016
	12 Anthracene	178	5.733	5.733	(1.008)	16202	1.88369	157.0885

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	14360	1.79260	149.4918
15 Fluoranthene	202	6.533	6.533	(1.149)	159210	16.5650	1381.4200
16 Pyrene	202	6.704	6.698	(0.880)	126417	14.1002	1175.8722
17 Benzo(a)anthracene	228	7.615	7.610	(0.999)	83629	9.38414	782.5796
19 Chrysene	228	7.639	7.639	(1.002)	87284	9.90071	825.6584
20 Benzo(b)fluoranthene	252	8.445	8.439	(0.962)	116493	15.1900	1266.7508(M)
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.964)	44259	5.10016	425.3217(QM)
22 Benzo(a)pyrene	252	8.721	8.715	(0.994)	67434	8.50644	709.3852
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.880	(1.127)	37605	5.41418	451.5094(M)
25 Dibenzo(a,h)anthracene	278	9.897	9.892	(1.128)	16777	2.60478	217.2227
26 Benzo(g,h,i)perylene	276	10.227	10.209	(1.166)	50094	6.74177	562.2226(M)

QC Flag Legend

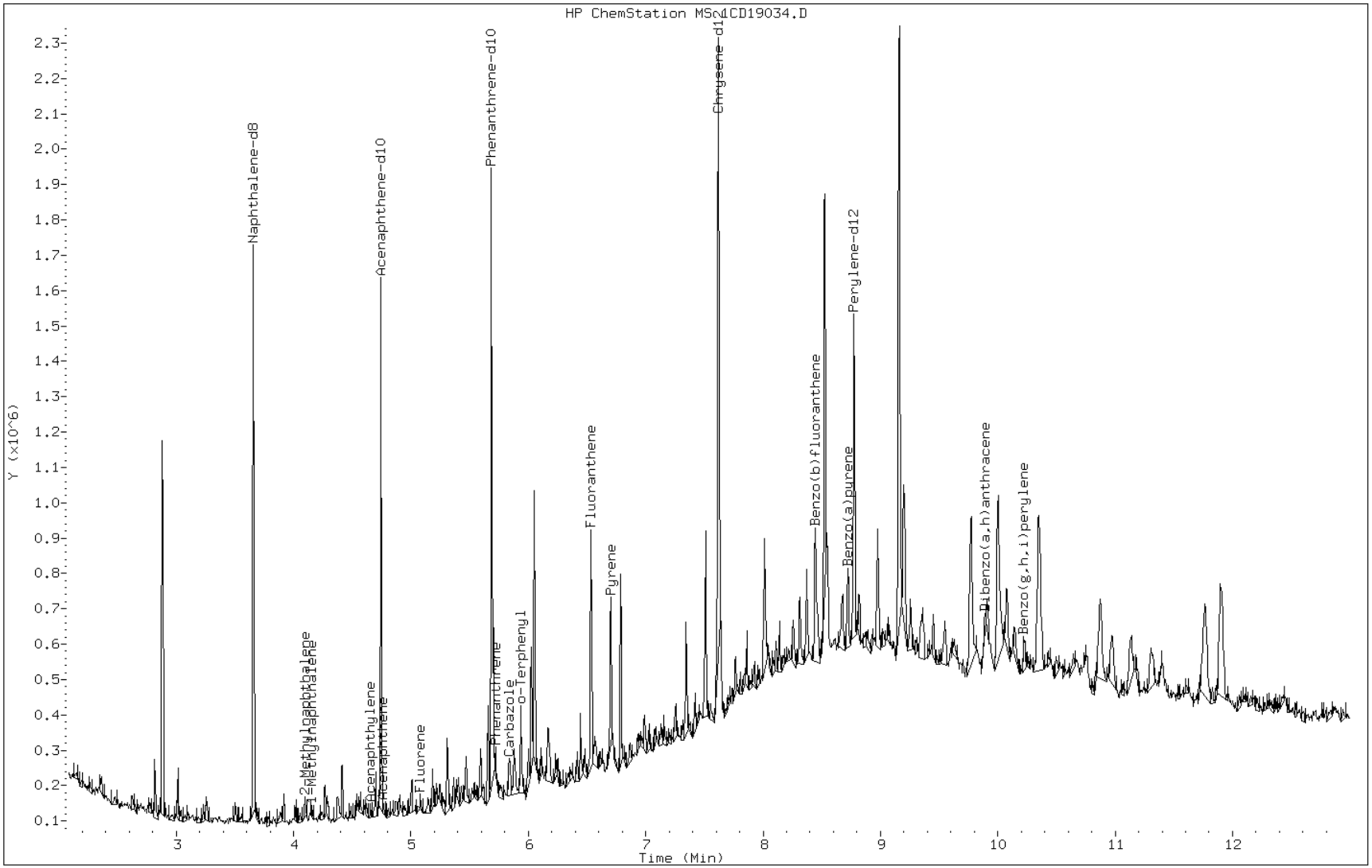
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC



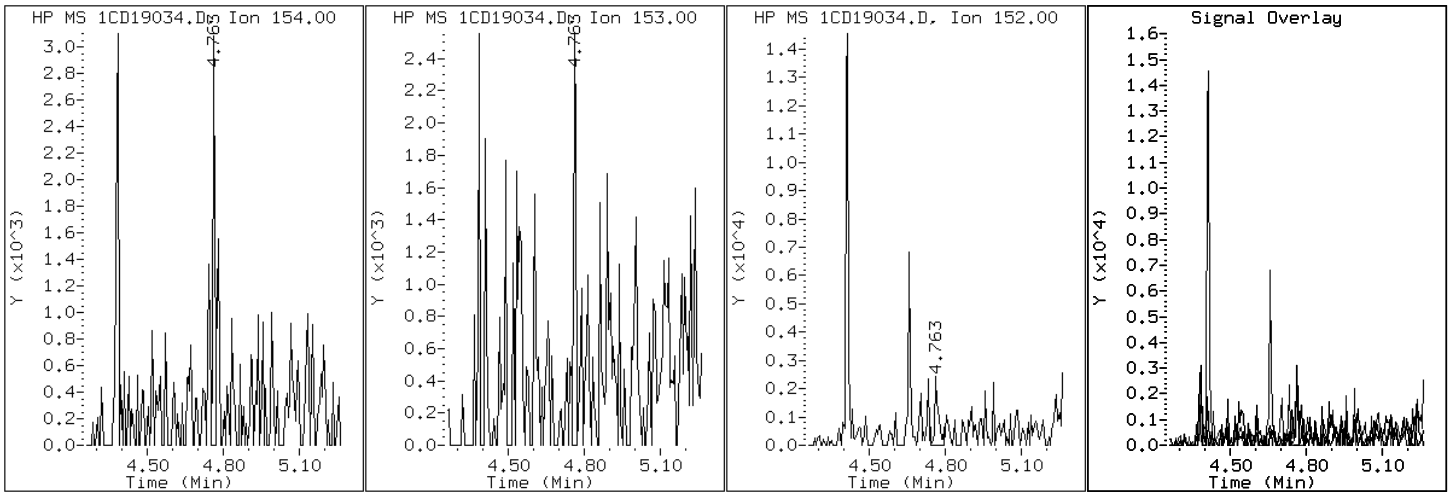
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

7 Acenaphthene



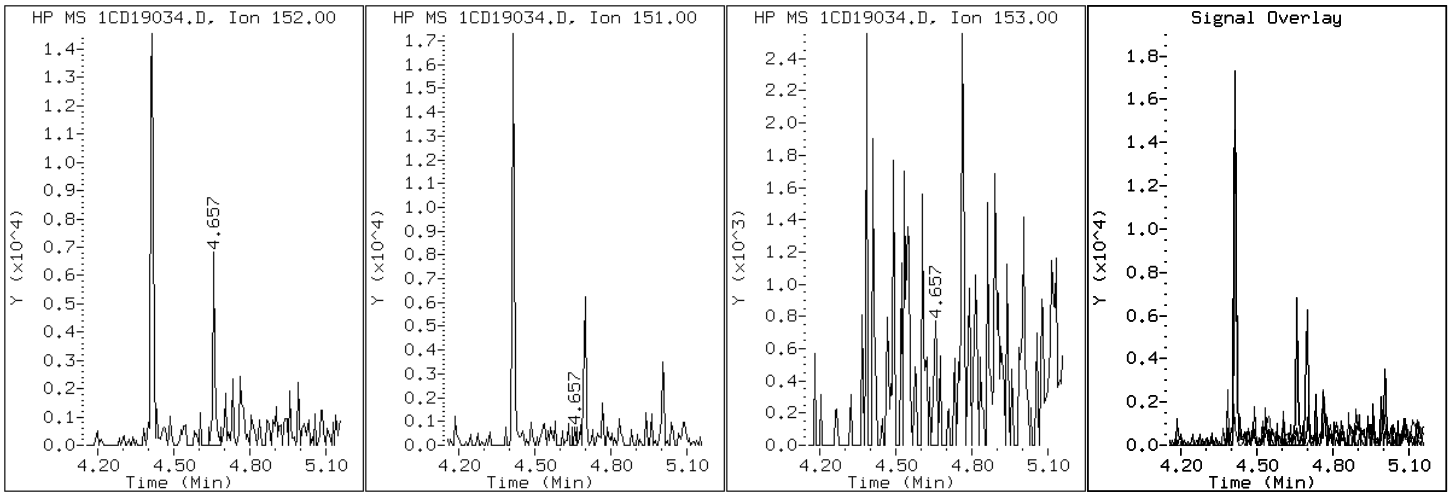
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

5 Acenaphthylene



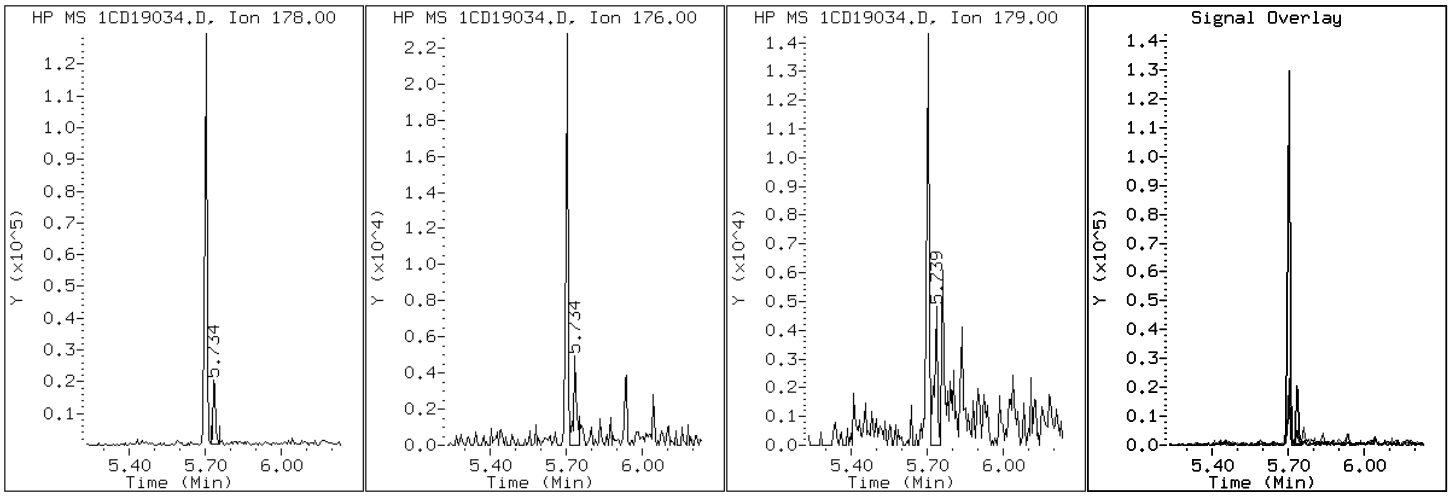
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

12 Anthracene



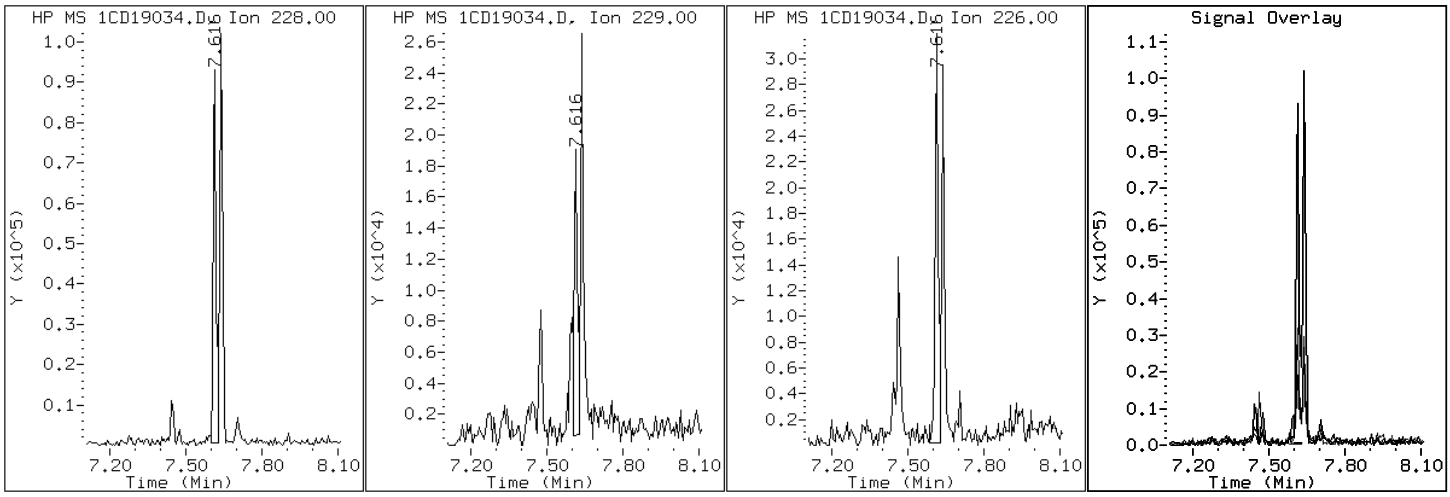
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

17 Benzo(a)anthracene



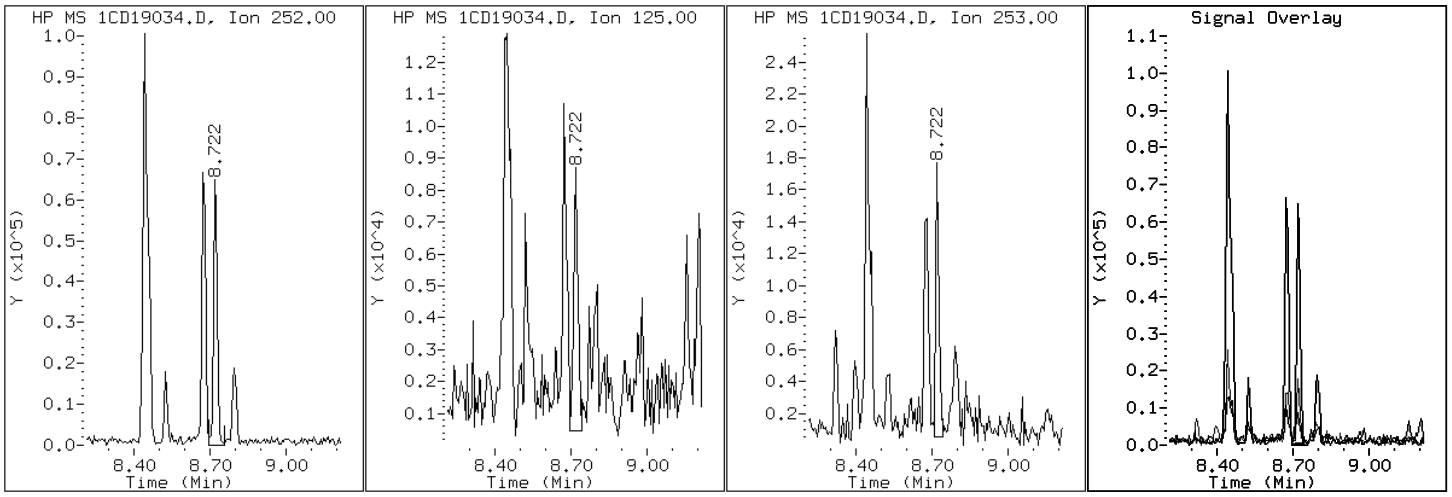
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

22 Benzo(a)pyrene



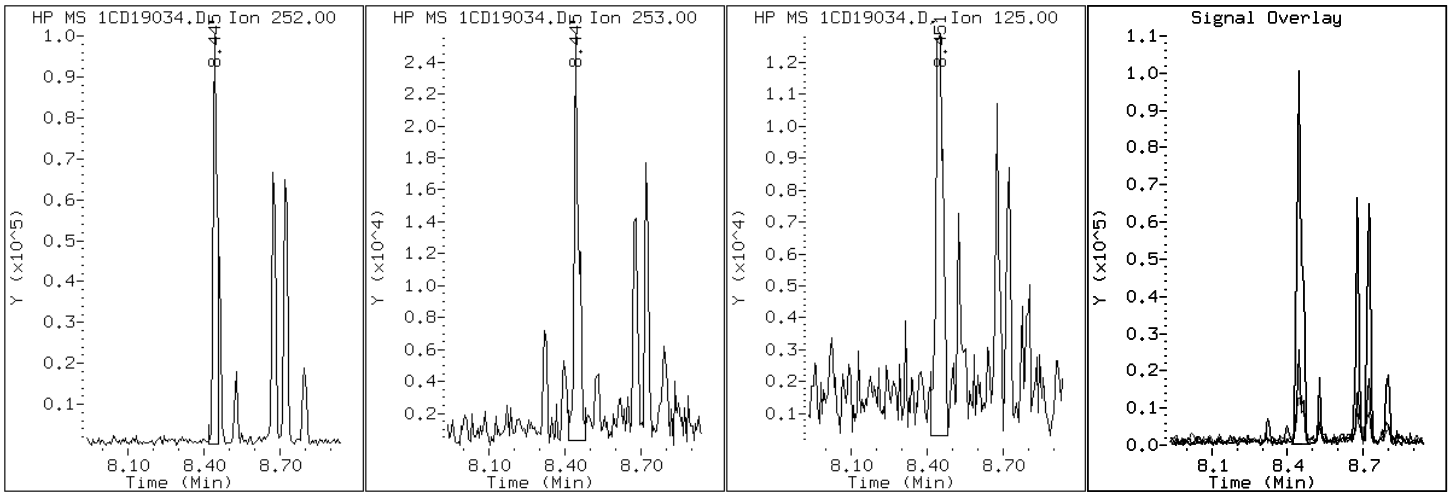
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



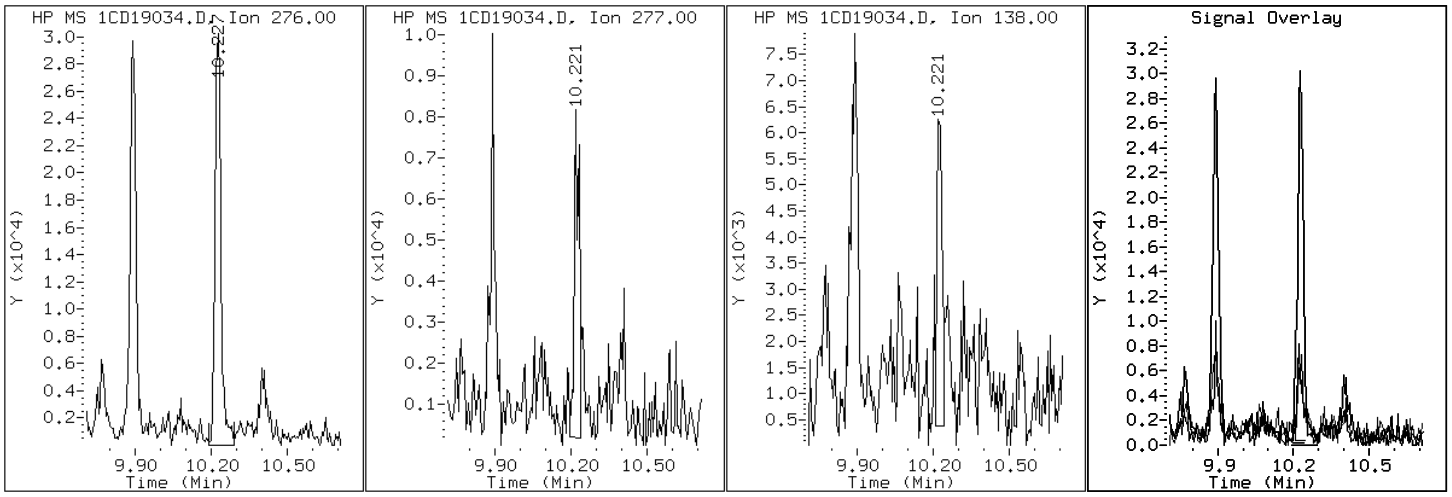
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



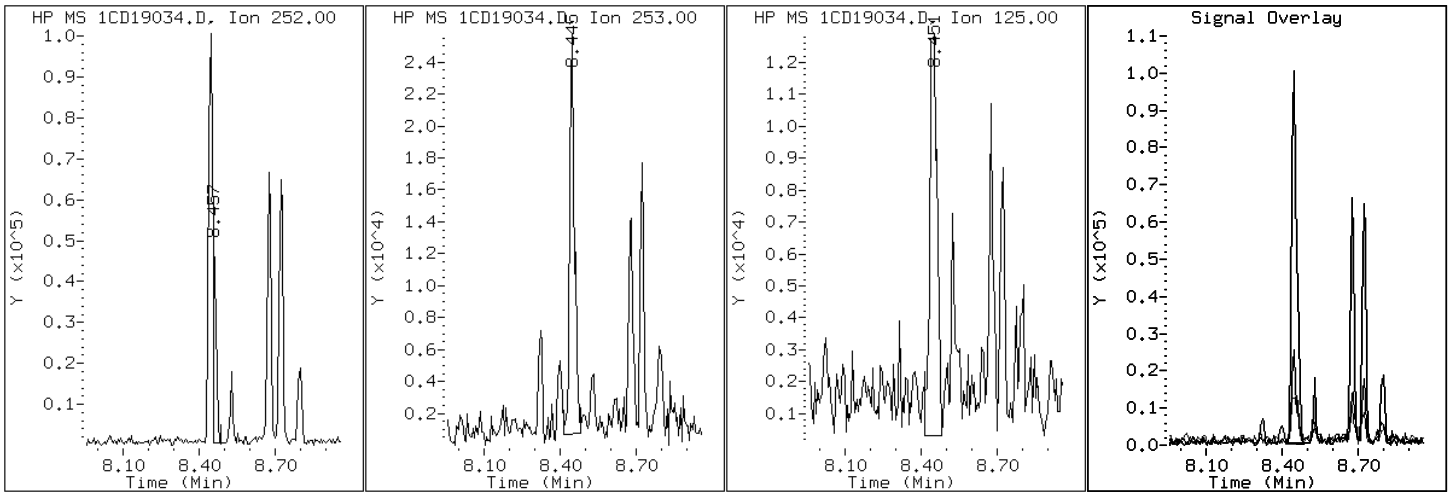
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



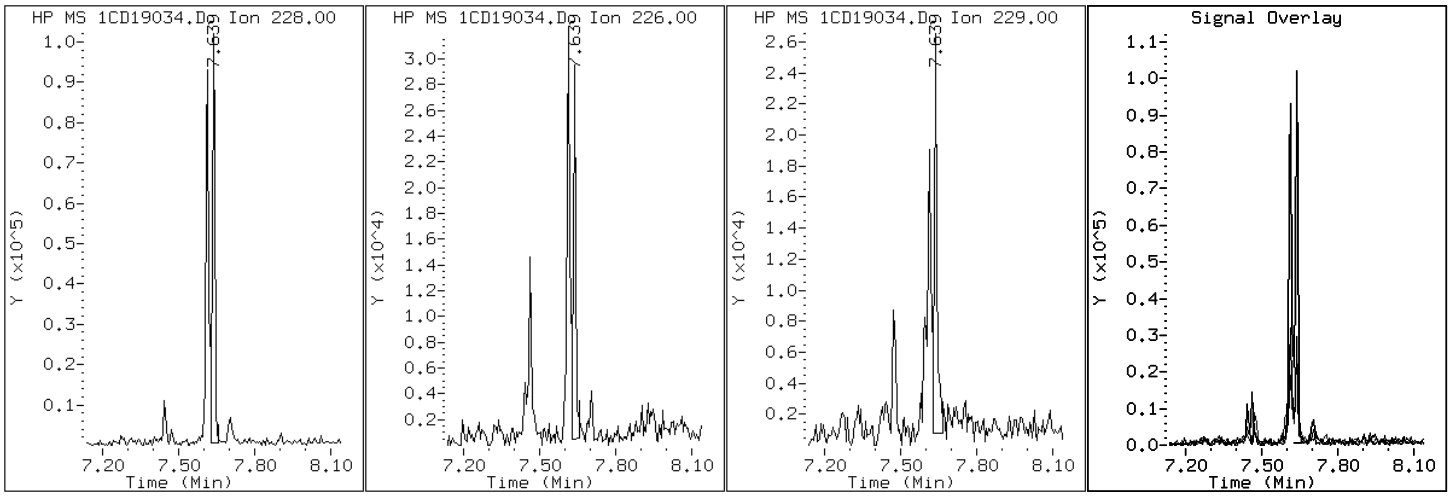
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

19 Chrysene



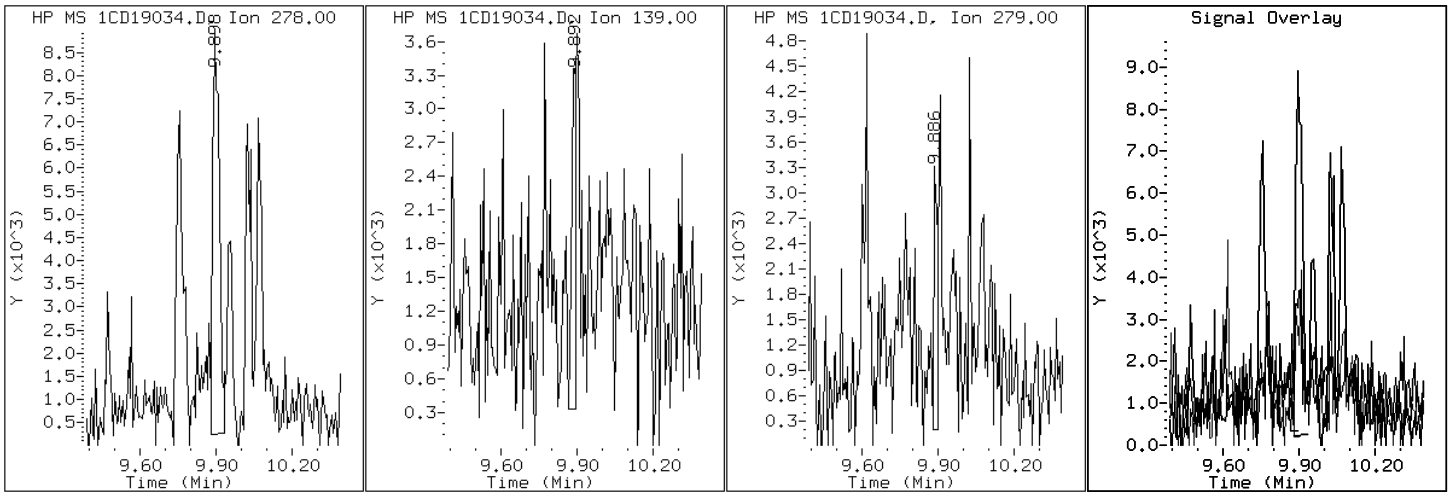
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



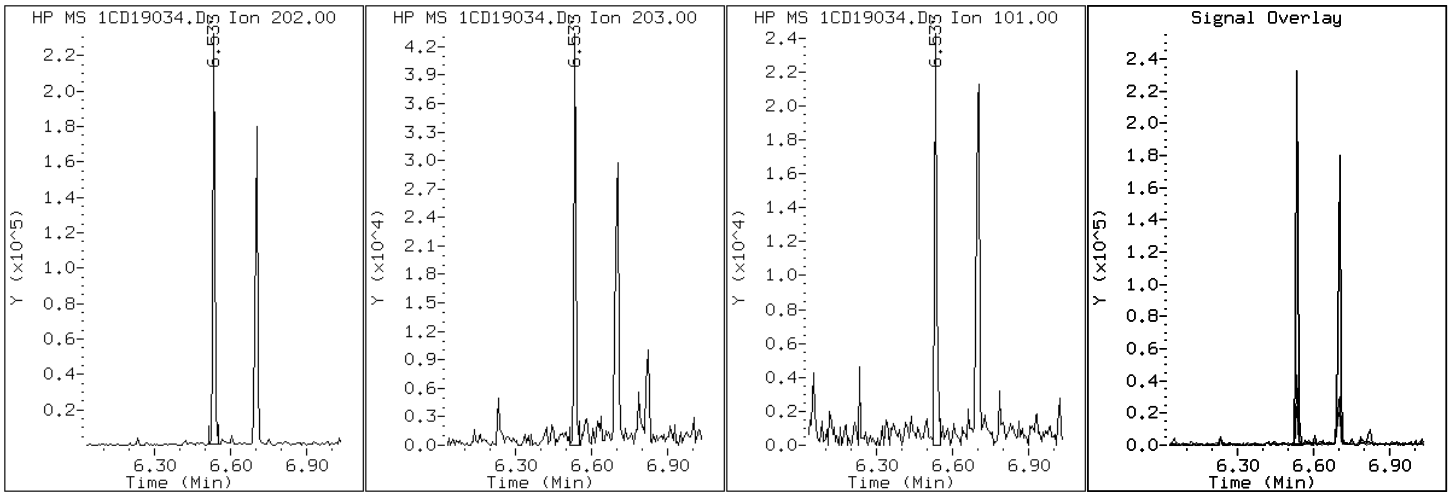
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

15 Fluoranthene



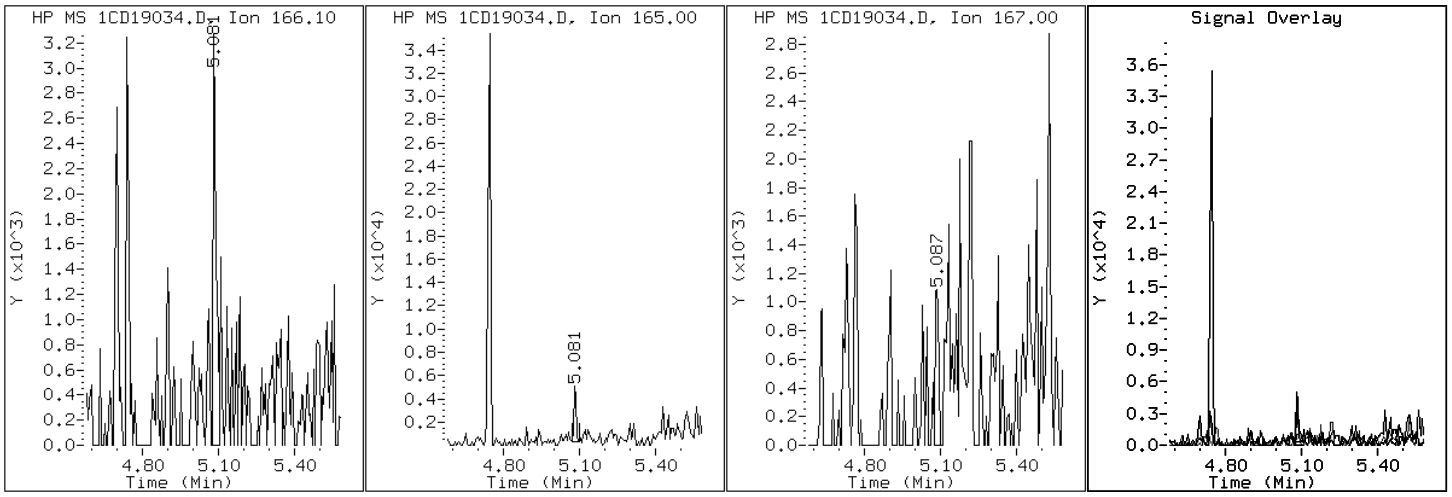
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

9 Fluorene



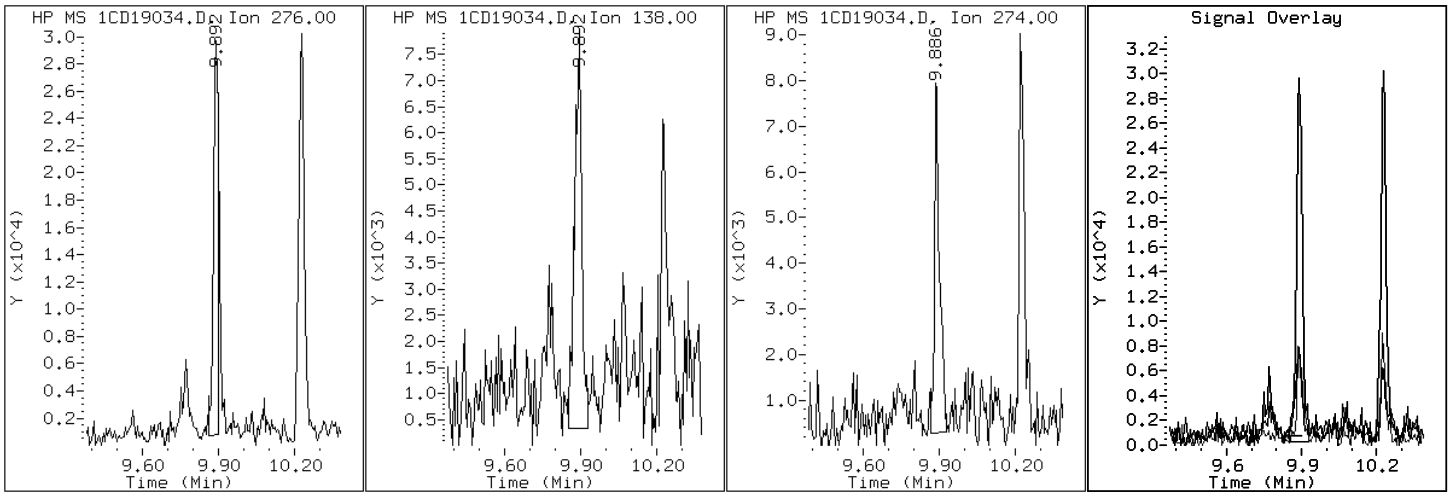
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

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



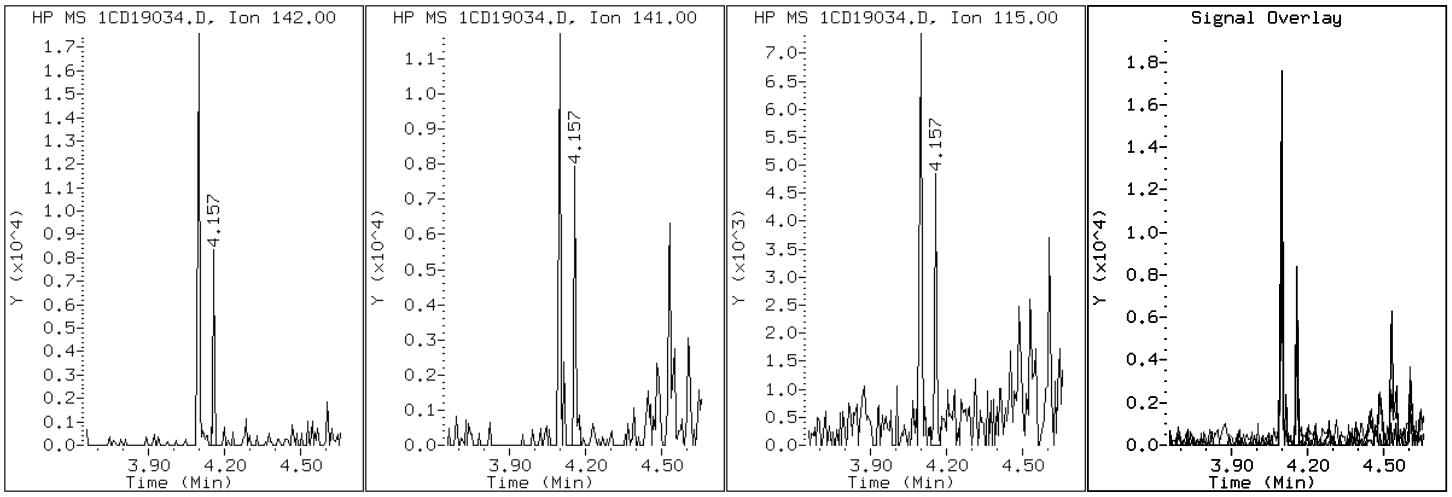
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

4 1-Methylnaphthalene



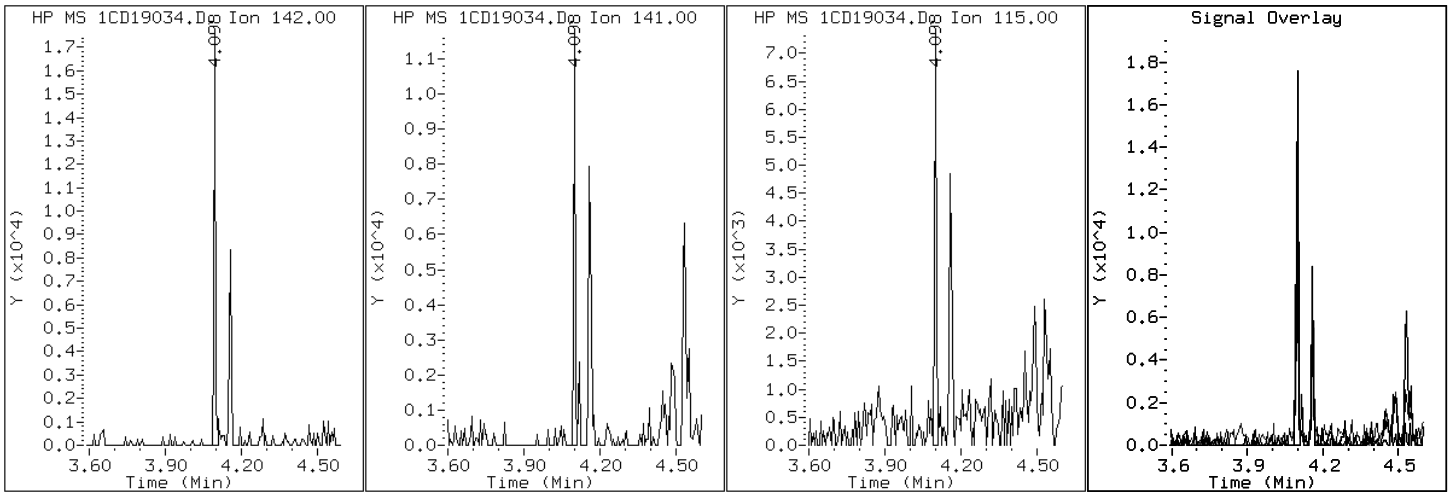
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

3 2-Methylnaphthalene



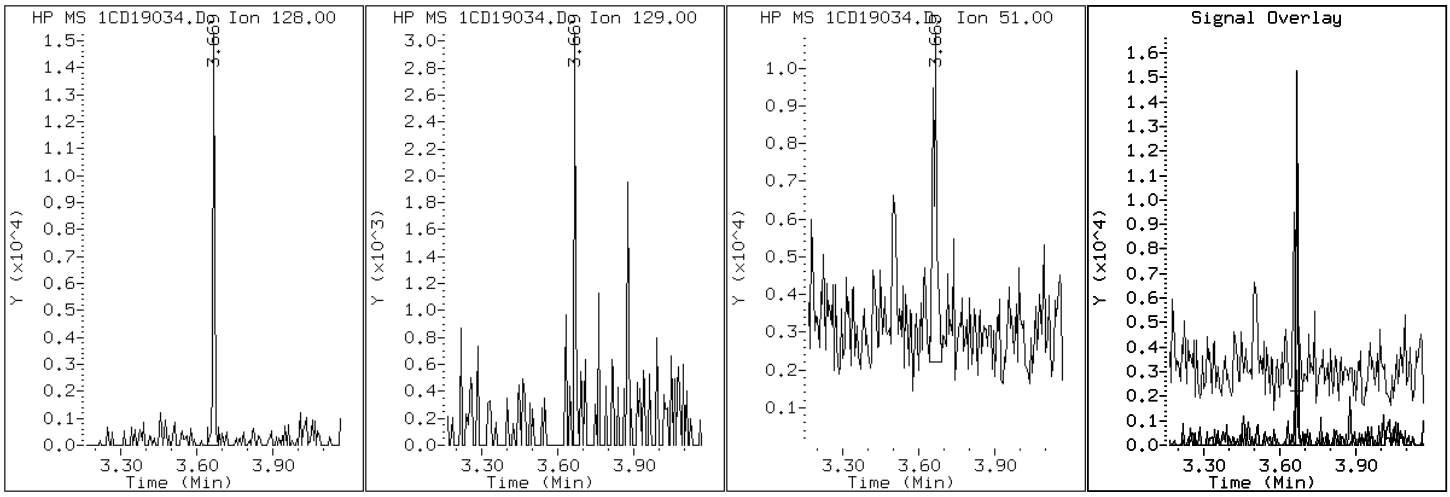
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

2 Naphthalene



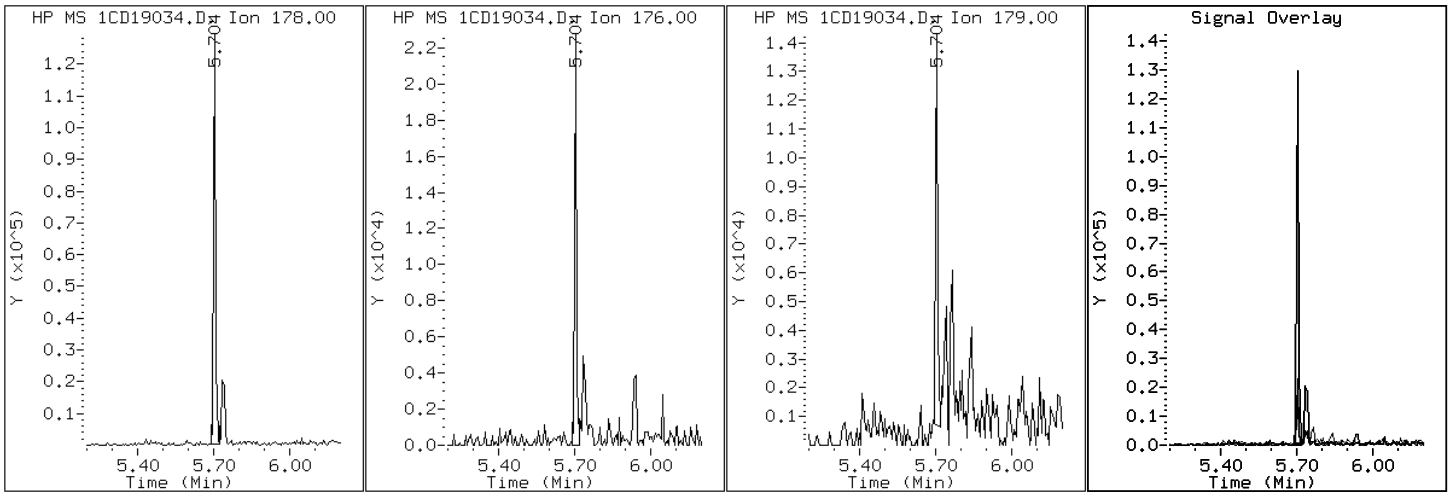
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

11 Phenanthrene



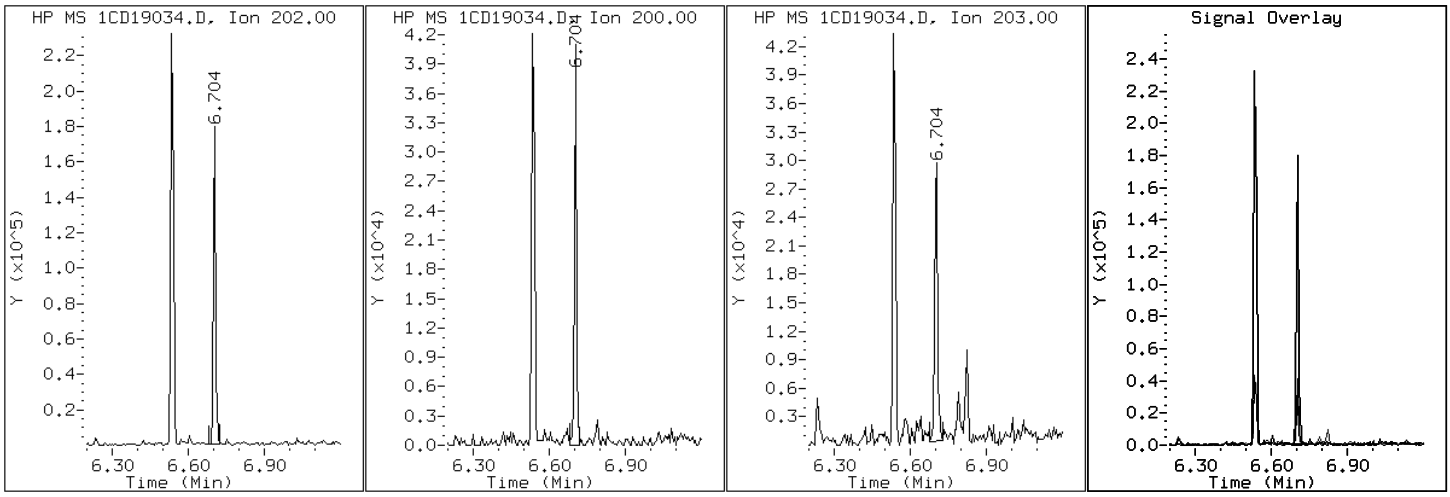
Data File: 1CD19034.D

Date: 19-APR-2013 21:13

Client ID: CV0401A-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19034.D
Inj. Date and Time: 19-APR-2013 21:13
Instrument ID: BSMC5973.i
Client ID: CV0401A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

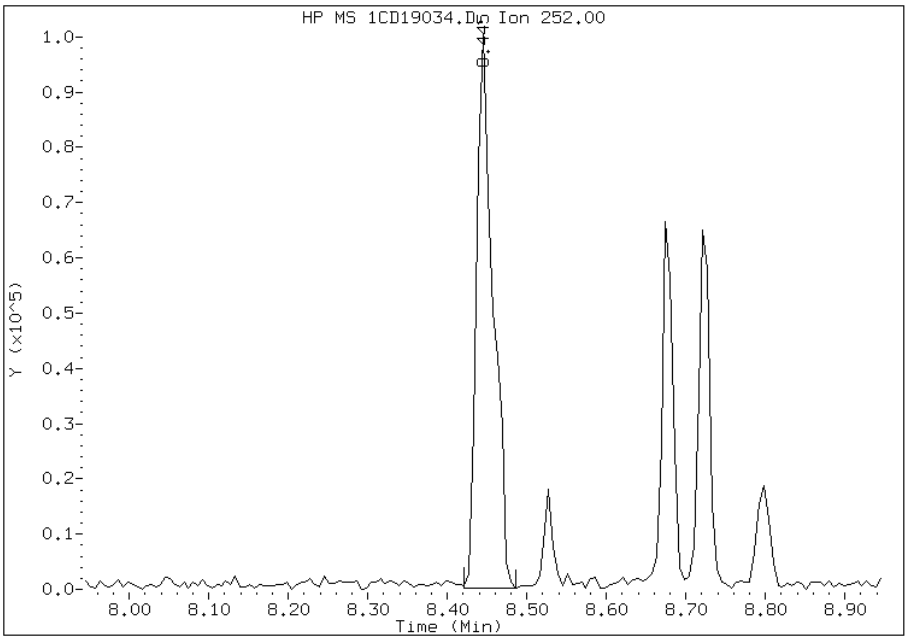
Processing Integration Results

RT: 8.45

Response: 143515

Amount: 19

Conc: 1561



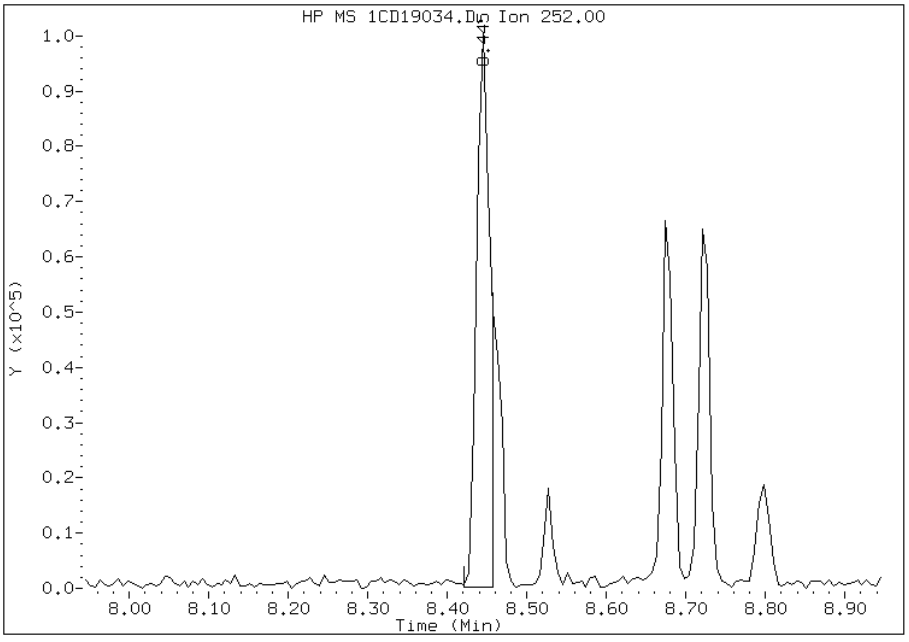
Manual Integration Results

RT: 8.45

Response: 116493

Amount: 15

Conc: 1267



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD19034.D
Inj. Date and Time: 19-APR-2013 21:13
Instrument ID: BSMC5973.i
Client ID: CV0401A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/22/2013

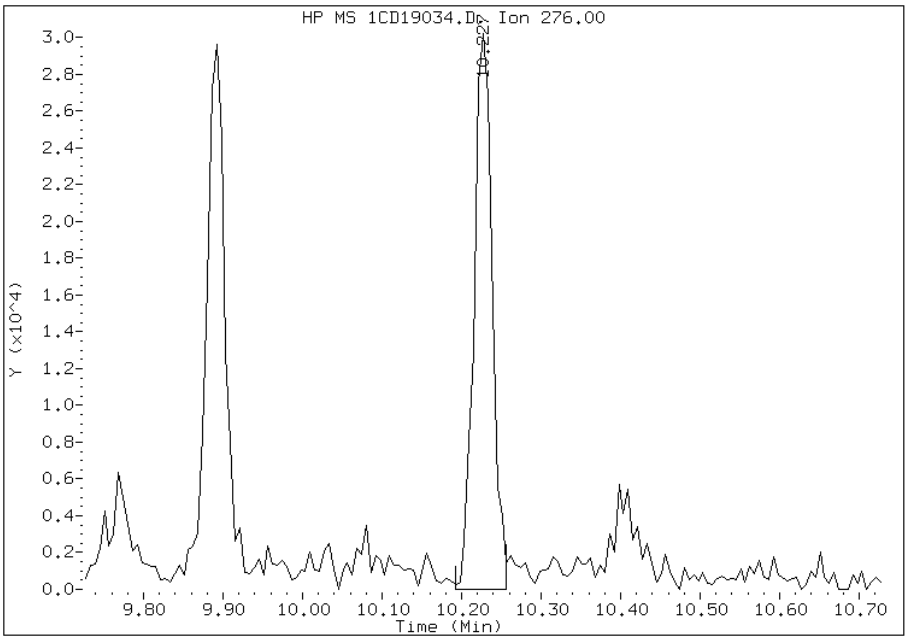
Processing Integration Results

RT: 10.23

Response: 47677

Amount: 6

Conc: 535



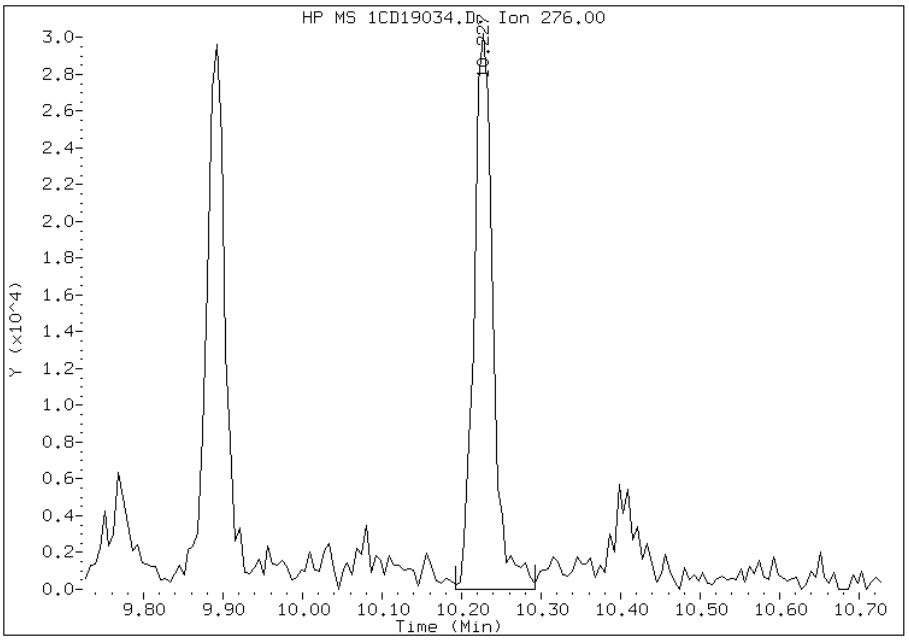
Manual Integration Results

RT: 10.23

Response: 50094

Amount: 7

Conc: 562



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19034.D
Inj. Date and Time: 19-APR-2013 21:13
Instrument ID: BSMC5973.i
Client ID: CV0401A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

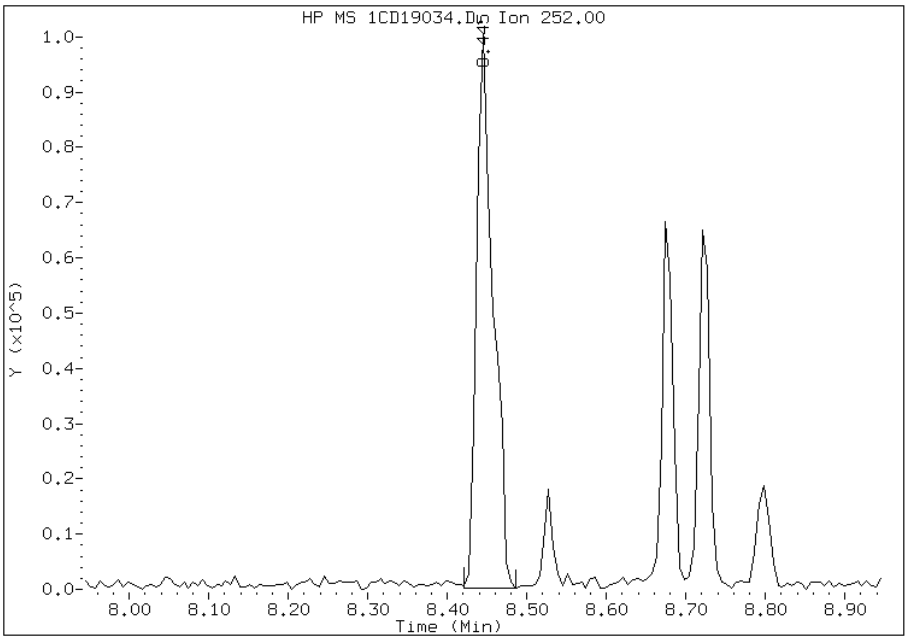
Processing Integration Results

RT: 8.45

Response: 143472

Amount: 17

Conc: 1379



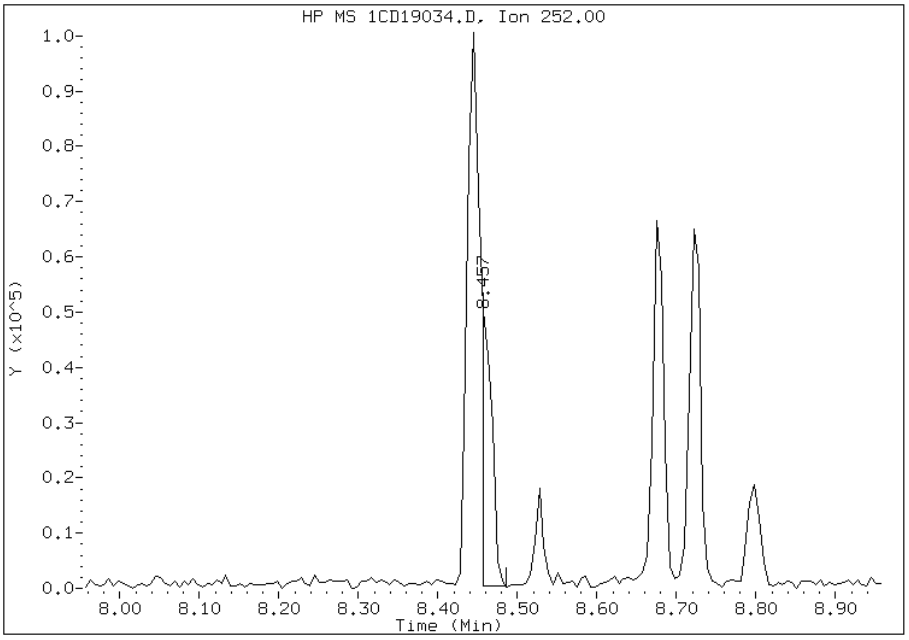
Manual Integration Results

RT: 8.46

Response: 44259

Amount: 5

Conc: 425



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19034.D
Inj. Date and Time: 19-APR-2013 21:13
Instrument ID: BSMC5973.i
Client ID: CV0401A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

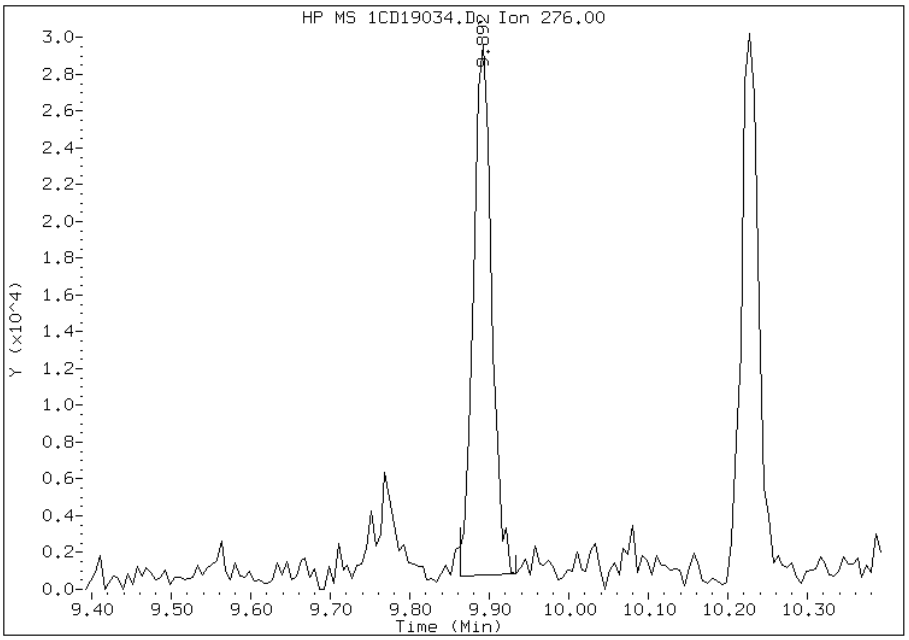
Processing Integration Results

RT: 9.89

Response: 45933

Amount: 6

Conc: 540



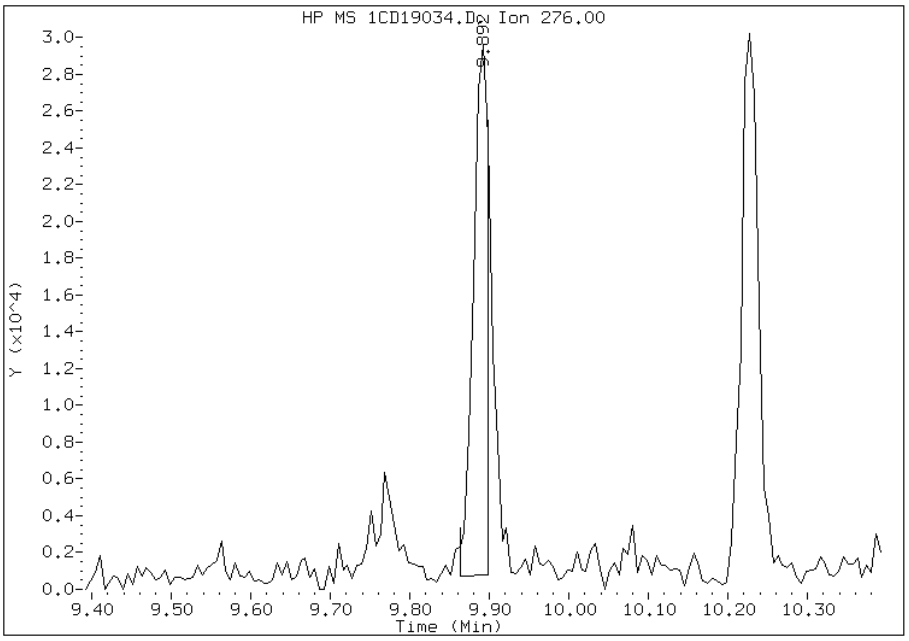
Manual Integration Results

RT: 9.89

Response: 37605

Amount: 5

Conc: 452



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0401B-CS | Lab Sample ID: 680-89328-12

Matrix: Solid | Lab File ID: 1CD19035.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 08:51

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.12(g) | Date Analyzed: 04/19/2013 21:32

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

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

% Moisture: 25.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160		130	27
208-96-8	Acenaphthylene	180		53	6.6
120-12-7	Anthracene	490		11	5.6
56-55-3	Benzo[a]anthracene	3600		11	5.2
207-08-9	Benzo[k]fluoranthene	3300		11	4.8
218-01-9	Chrysene	3600		12	6.0
53-70-3	Dibenz(a,h)anthracene	1400		27	5.4
86-73-7	Fluorene	160		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	3900		27	9.4
90-12-0	1-Methylnaphthalene	240		53	5.8
91-57-6	2-Methylnaphthalene	350		53	9.4
91-20-3	Naphthalene	220		53	5.8
85-01-8	Phenanthrene	2400		11	5.2
129-00-0	Pyrene	3700		27	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19035.D
Lab Smp Id: 680-89328-A-12-A Client Smp ID: CV0401B-CS
Inj Date : 19-APR-2013 21:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-12-a
Misc Info : 680-89328-A-12-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	25.277	% 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	3.657	3.657	(1.000)	250586	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	171230	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	287627	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	31297	7.26054	642.6340
*	18 Chrysene-d12	240	7.627	7.615	(1.000)	393682	40.0000	
*	23 Perylene-d12	264	8.786	8.768	(1.000)	376114	40.0000	
	2 Naphthalene	128	3.669	3.669	(1.003)	16547	2.44282	216.2151
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	16919	4.00740	354.6969
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	11832	2.73458	242.0394
	5 Acenaphthylene	152	4.657	4.657	(0.981)	14833	2.04434	180.9453
	7 Acenaphthene	154	4.763	4.763	(1.004)	8136	1.86069	164.6908
	9 Fluorene	166	5.080	5.080	(1.071)	9849	1.77000	156.6636
	11 Phenanthrene	178	5.704	5.698	(1.003)	229793	27.4310	2427.9279
	12 Anthracene	178	5.739	5.733	(1.009)	45982	5.50674	487.4047

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	24927	3.20527	283.6998
15 Fluoranthene	202	6.539	6.533	(1.150)	528699	56.6624	5015.2198(A)
16 Pyrene	202	6.704	6.698	(0.879)	462297	41.2771	3653.4576
17 Benzo(a)anthracene	228	7.621	7.610	(0.999)	453499	40.7363	3605.5900
19 Chrysene	228	7.645	7.639	(1.002)	449867	40.8492	3615.5825
20 Benzo(b)fluoranthene	252	8.456	8.439	(0.963)	1214007	127.795	11311.1577(AM)
21 Benzo(k)fluoranthene	252	8.468	8.457	(0.964)	404391	37.6199	3329.7525(QM)
22 Benzo(a)pyrene	252	8.739	8.715	(0.995)	611807	62.3042	5514.5763(A)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.880	(1.129)	421754	43.8708	3883.0284(M)
25 Dibenzo(a,h)anthracene	278	9.927	9.892	(1.130)	147436	15.7553	1394.5069
26 Benzo(g,h,i)perylene	276	10.268	10.209	(1.169)	491625	53.4141	4727.7125(AH)

QC Flag Legend

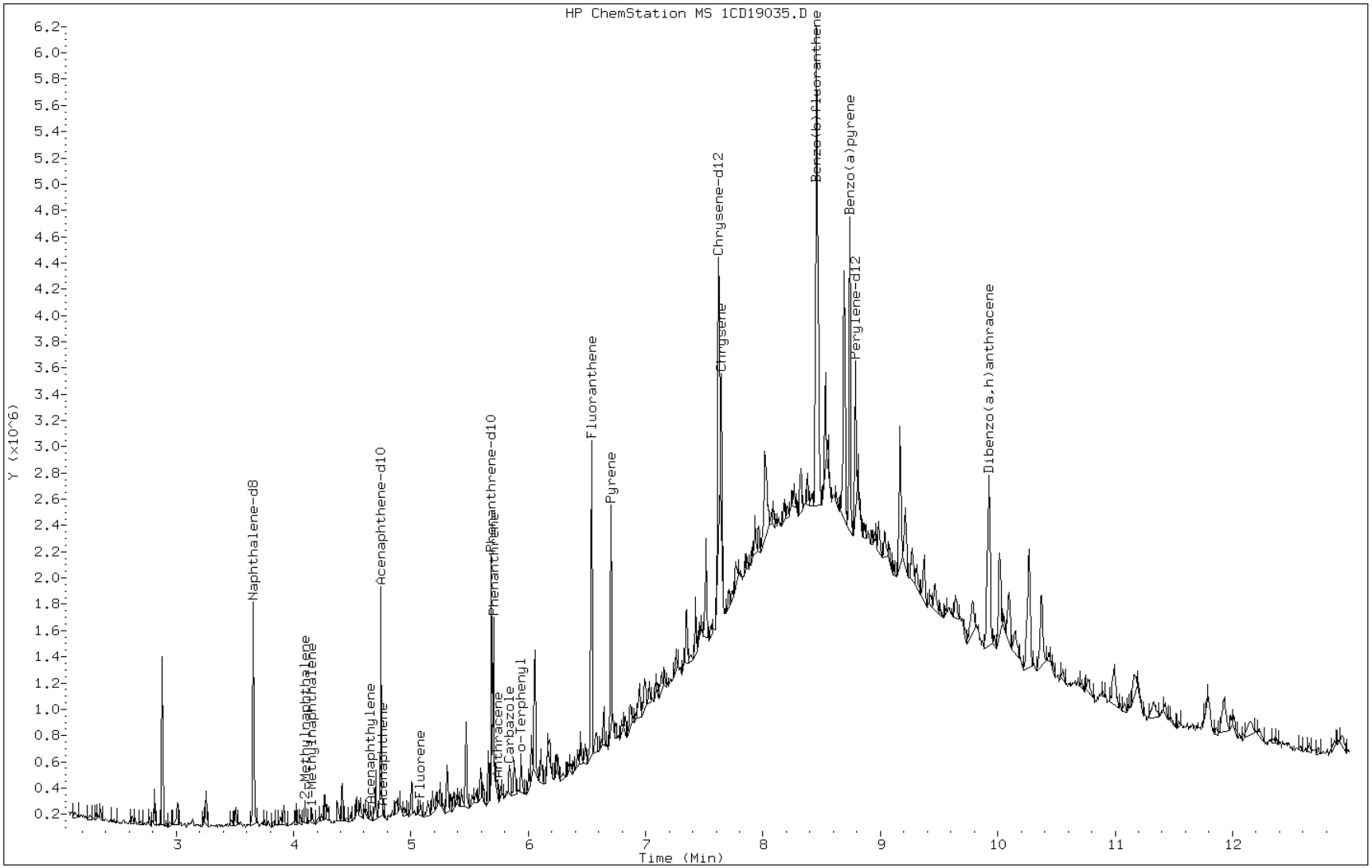
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC



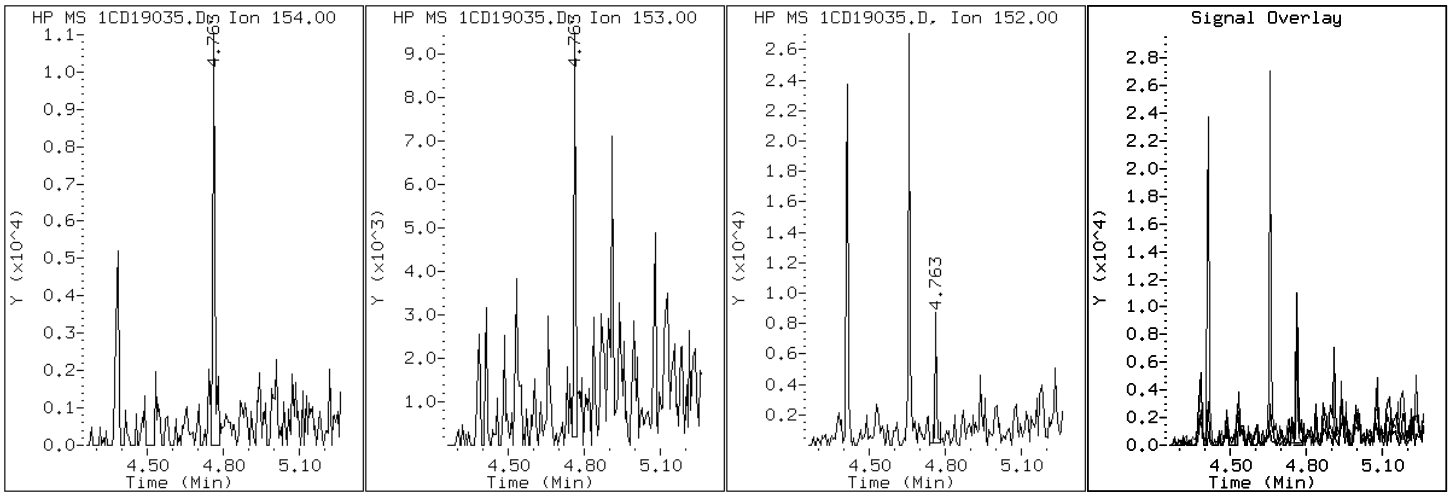
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

7 Acenaphthene



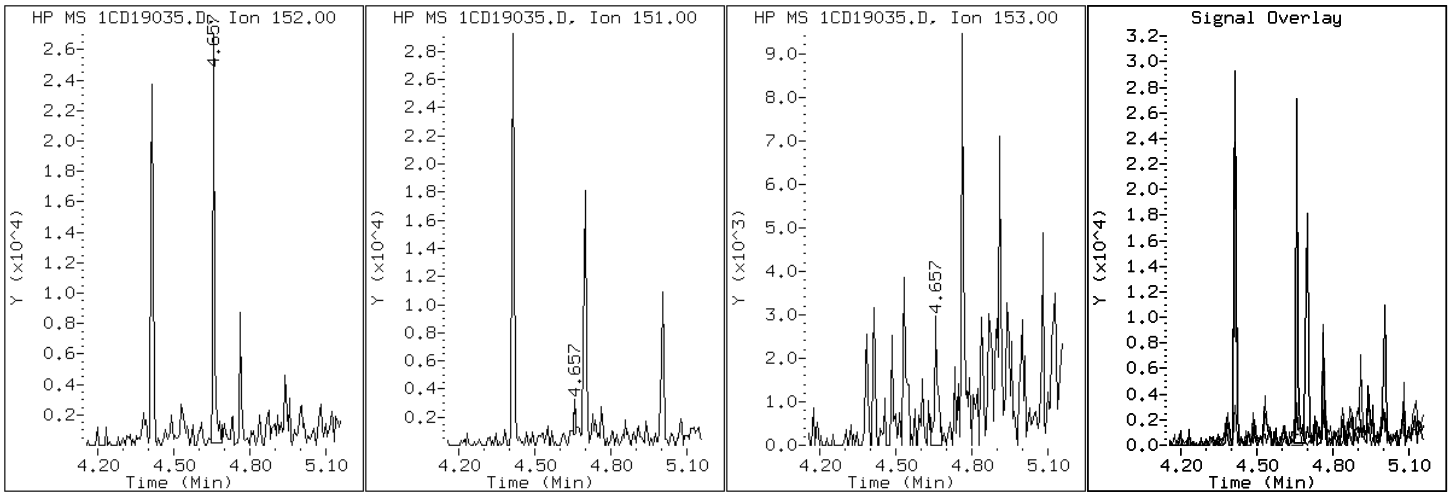
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

5 Acenaphthylene



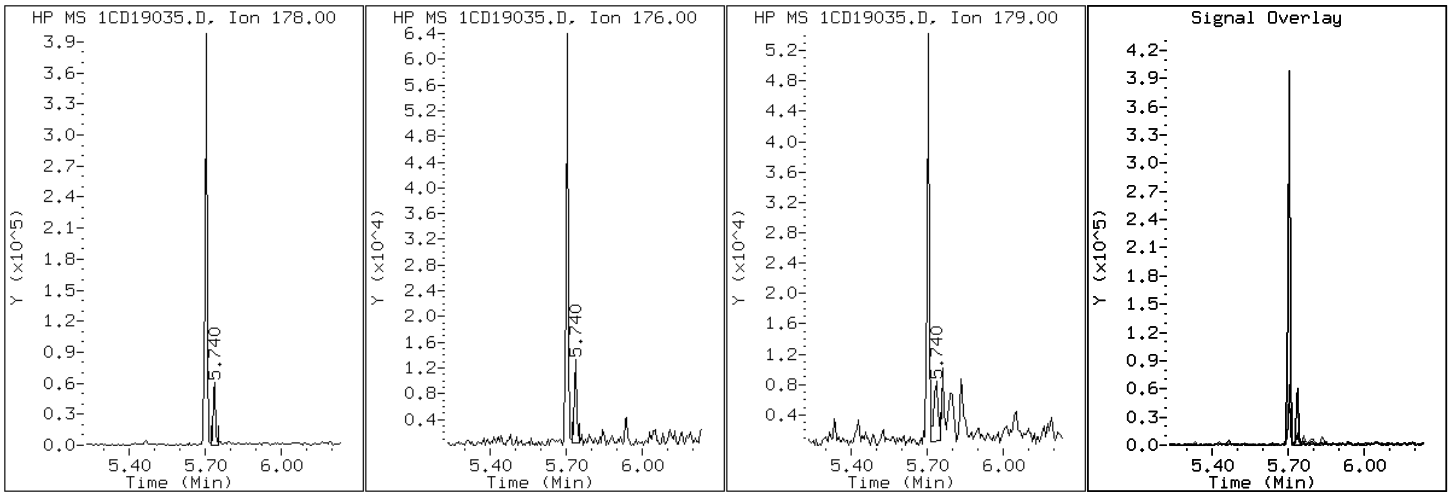
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

12 Anthracene



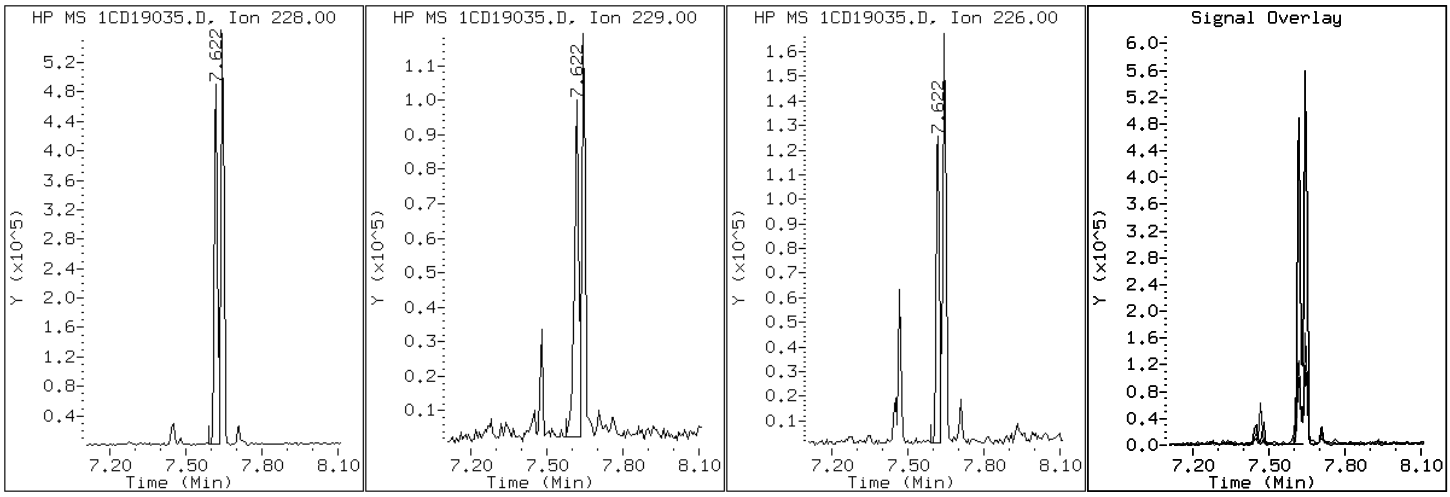
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

17 Benzo(a)anthracene



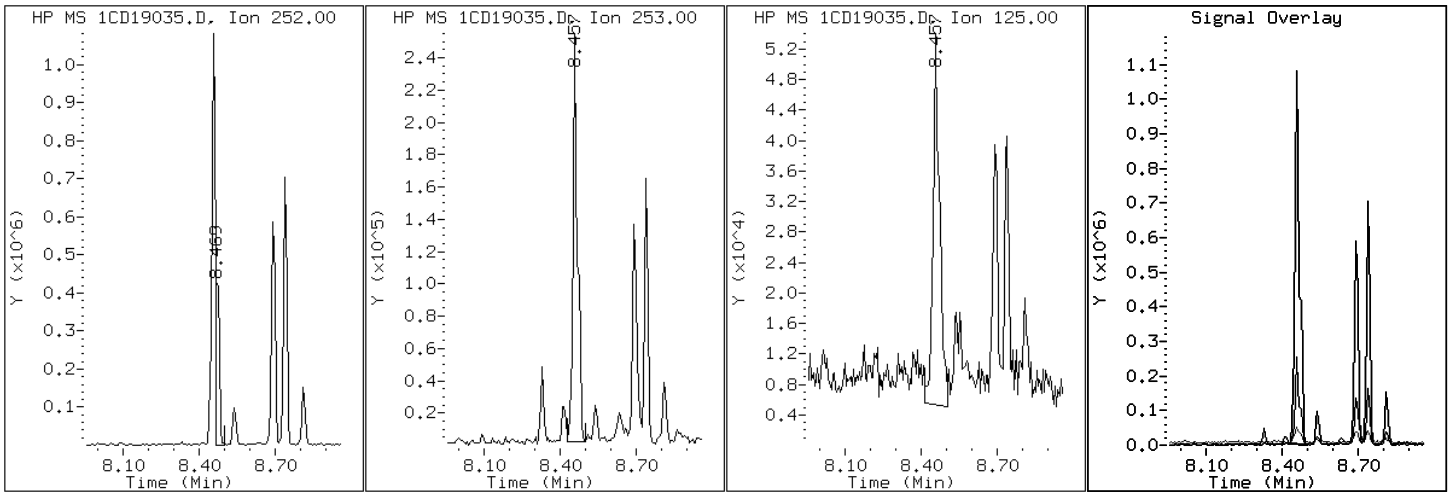
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



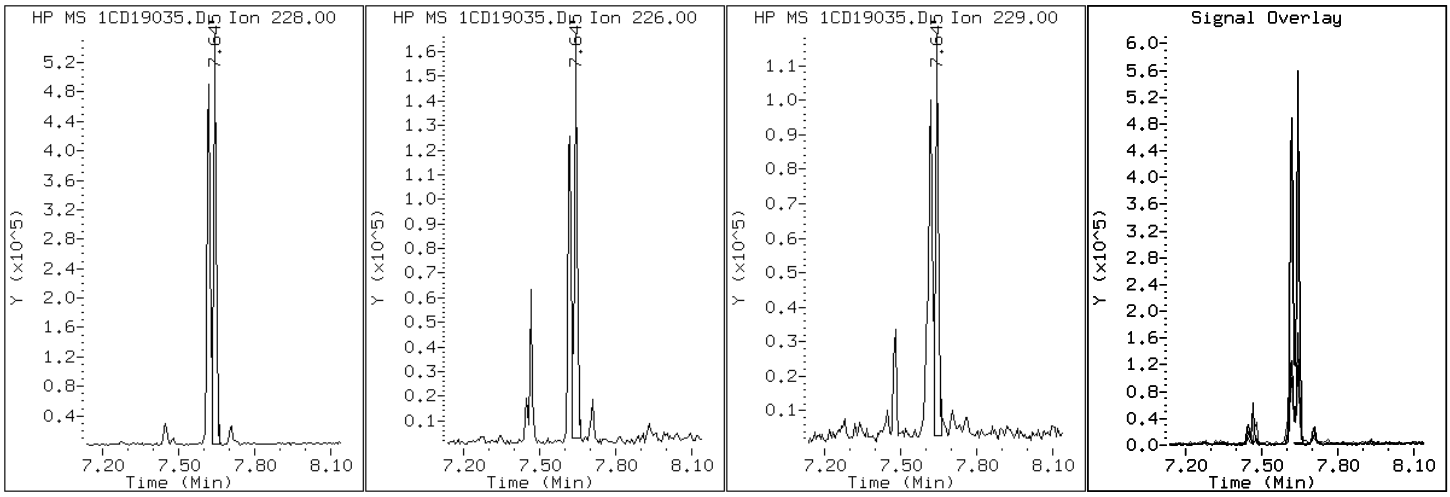
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

19 Chrysene



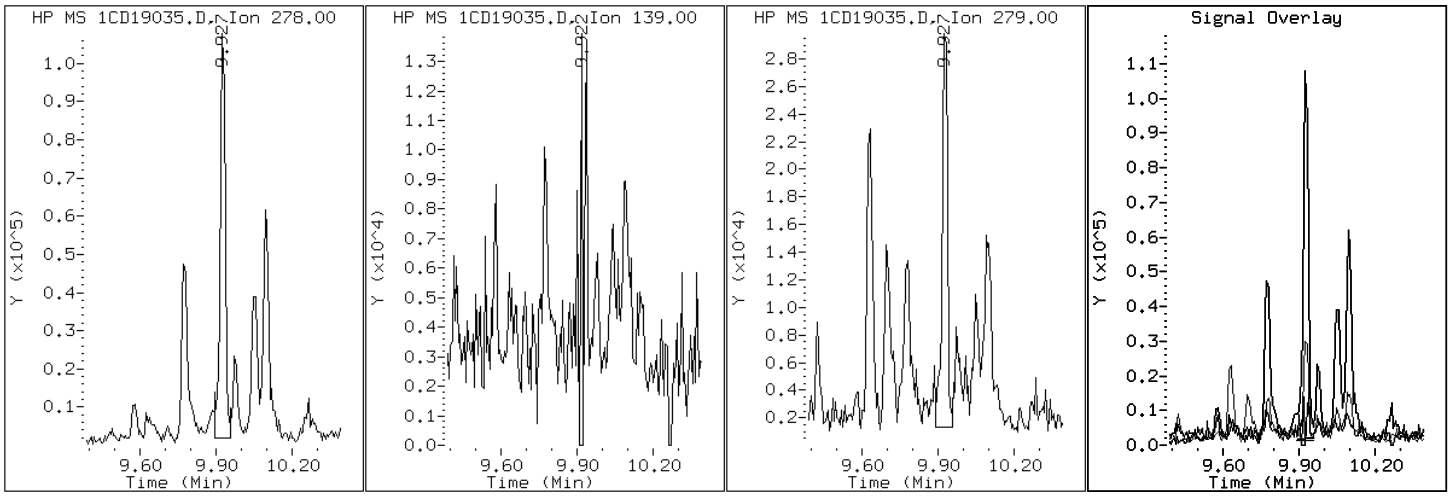
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



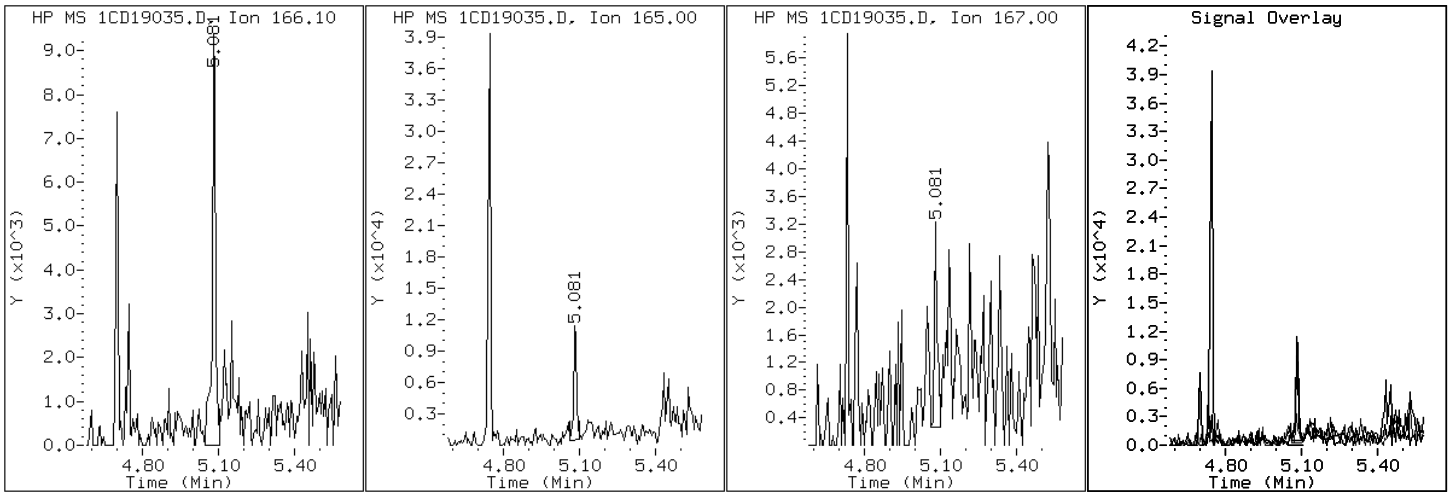
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

9 Fluorene



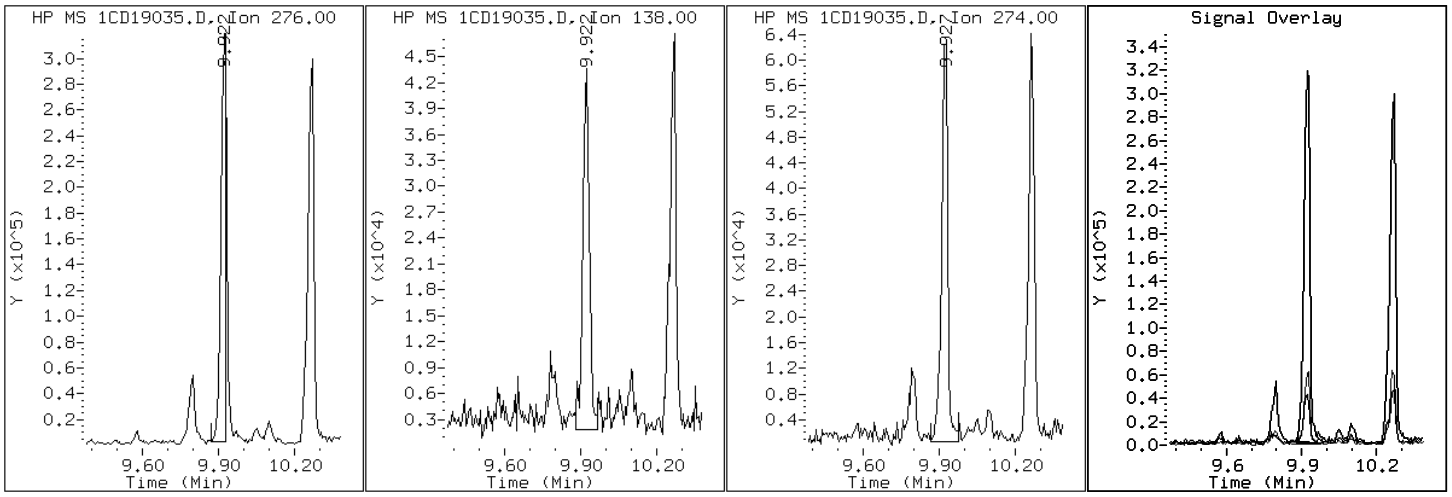
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

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



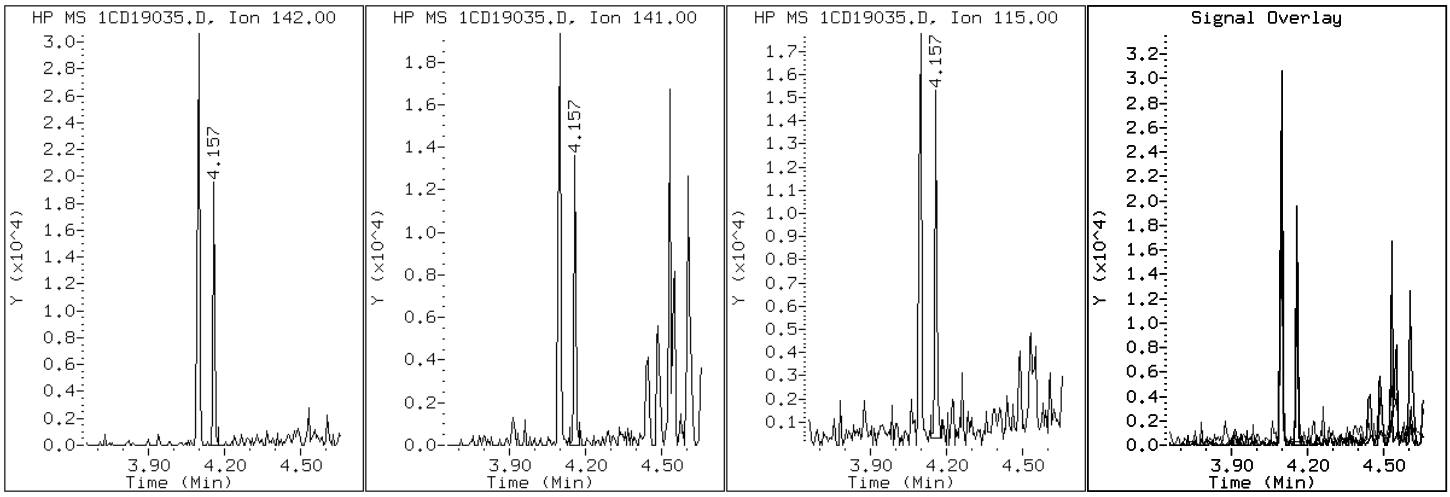
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

4 1-Methylnaphthalene



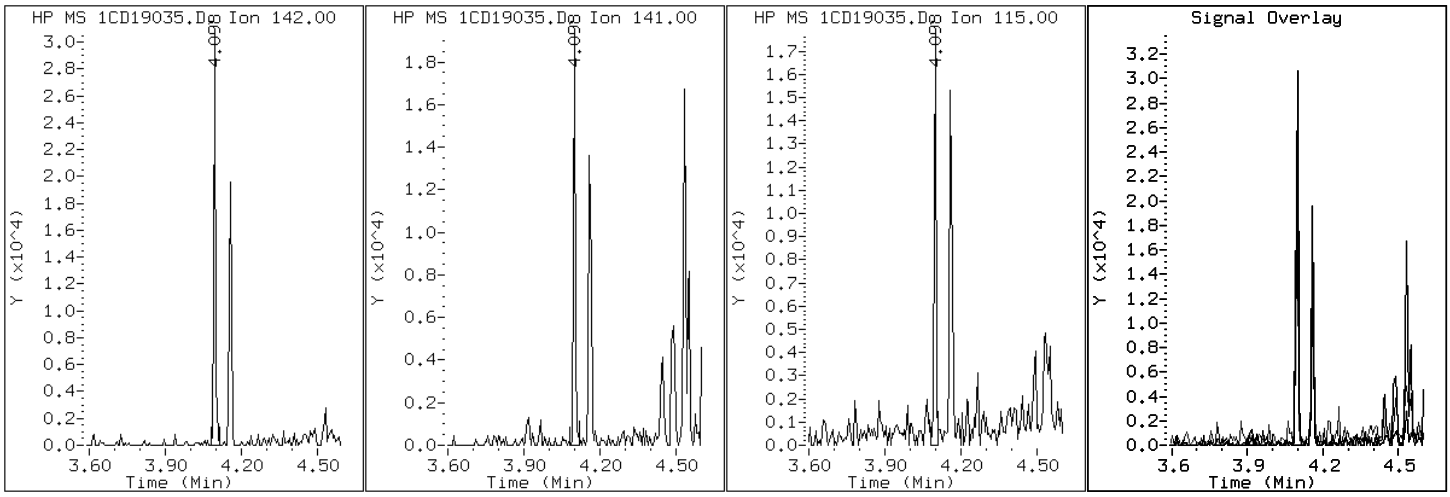
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

3 2-Methylnaphthalene



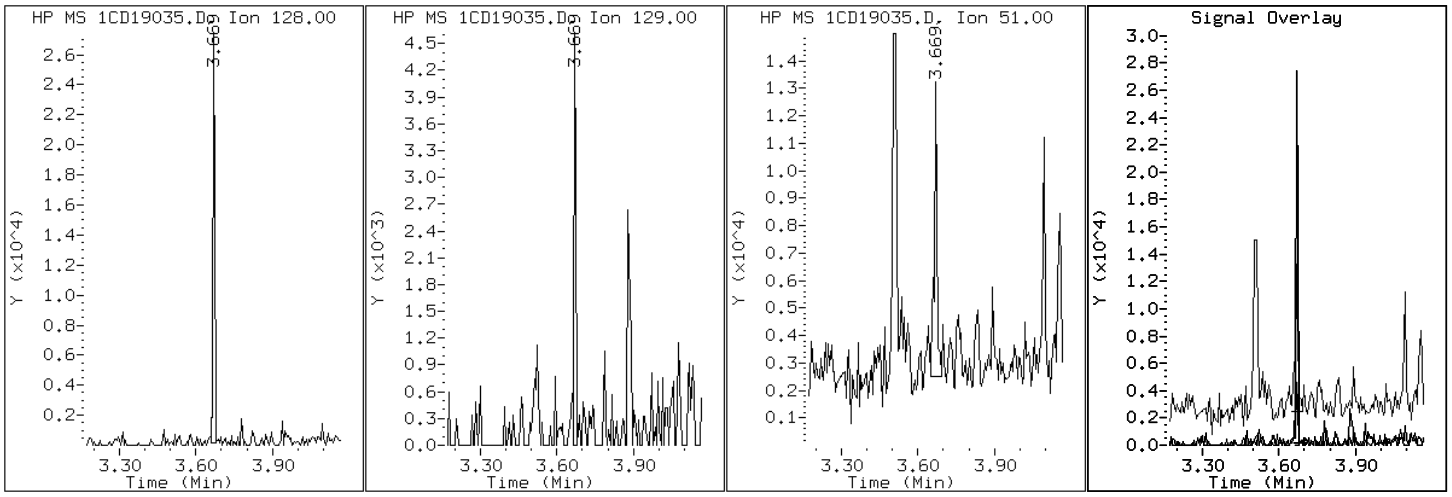
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

2 Naphthalene



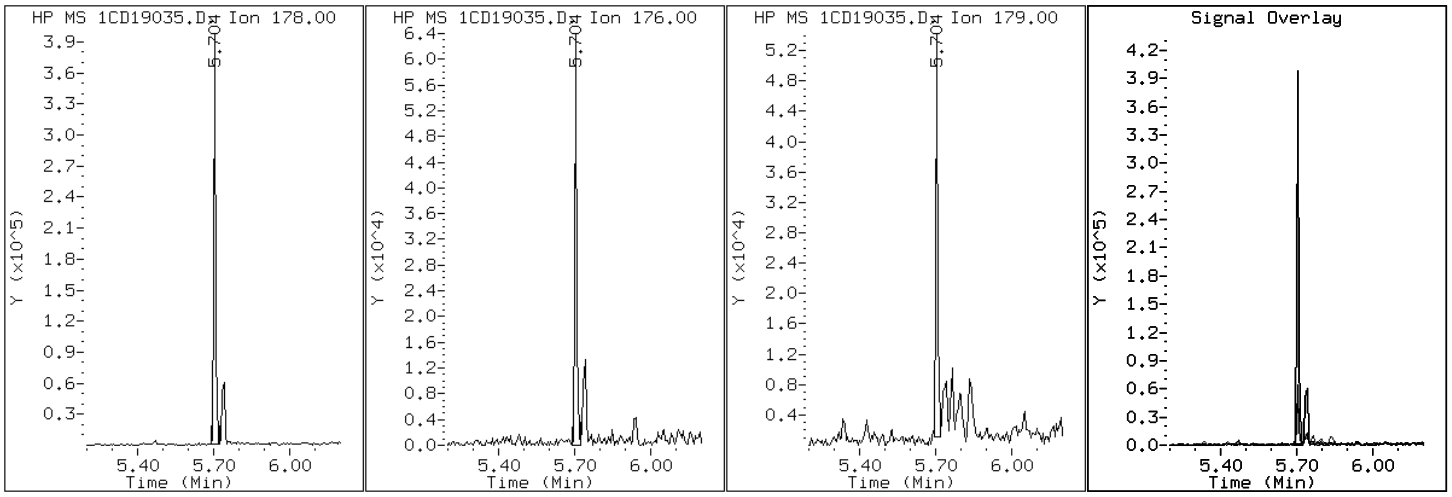
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

11 Phenanthrene



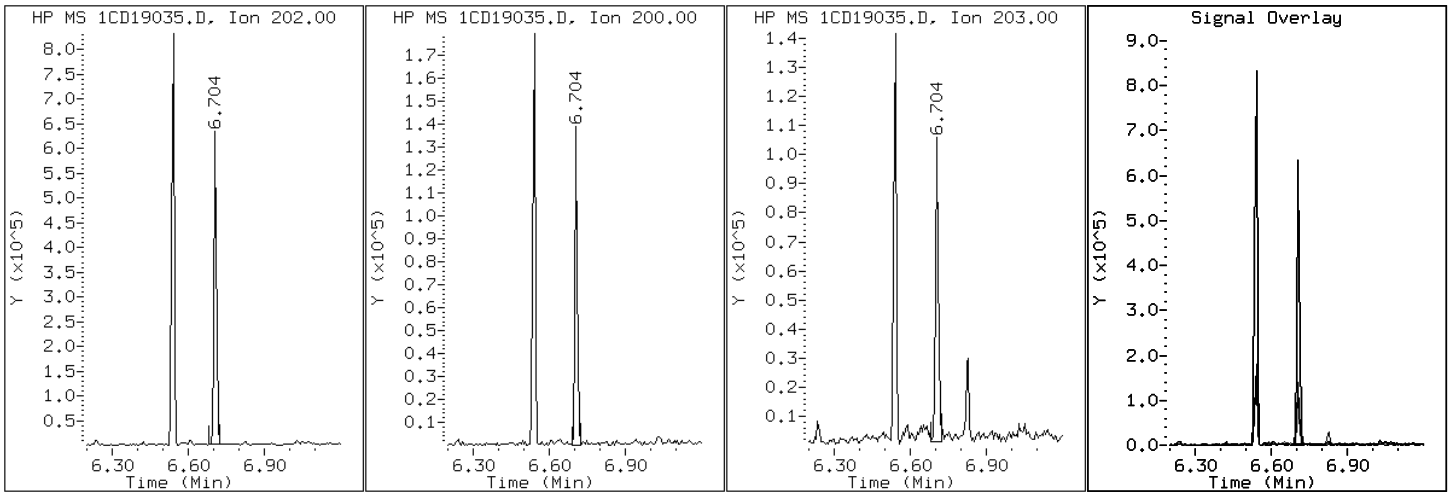
Data File: 1CD19035.D

Date: 19-APR-2013 21:32

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD19035.D
Inj. Date and Time: 19-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: CV0401B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

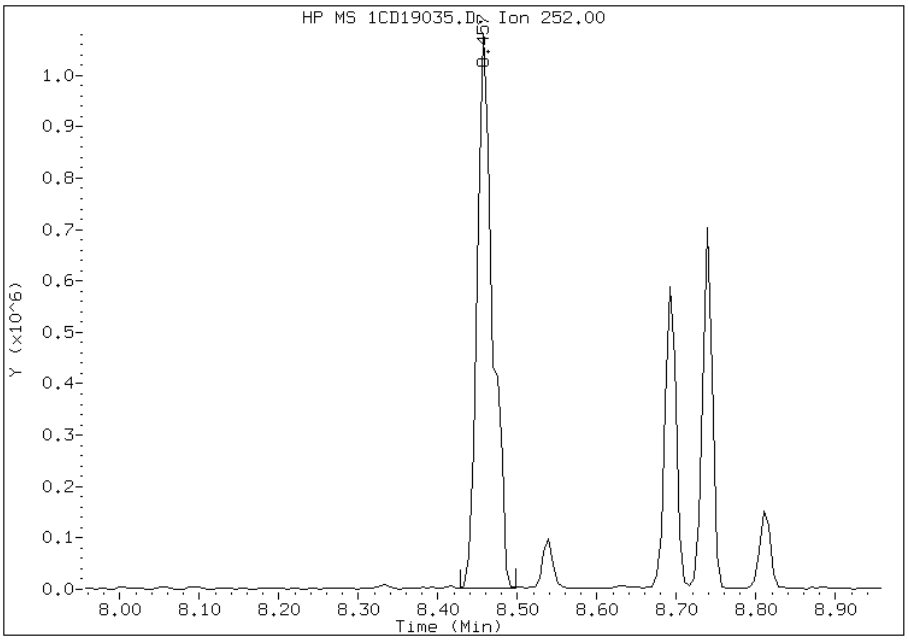
Processing Integration Results

RT: 8.46

Response: 1465456

Amount: 136

Conc: 12067



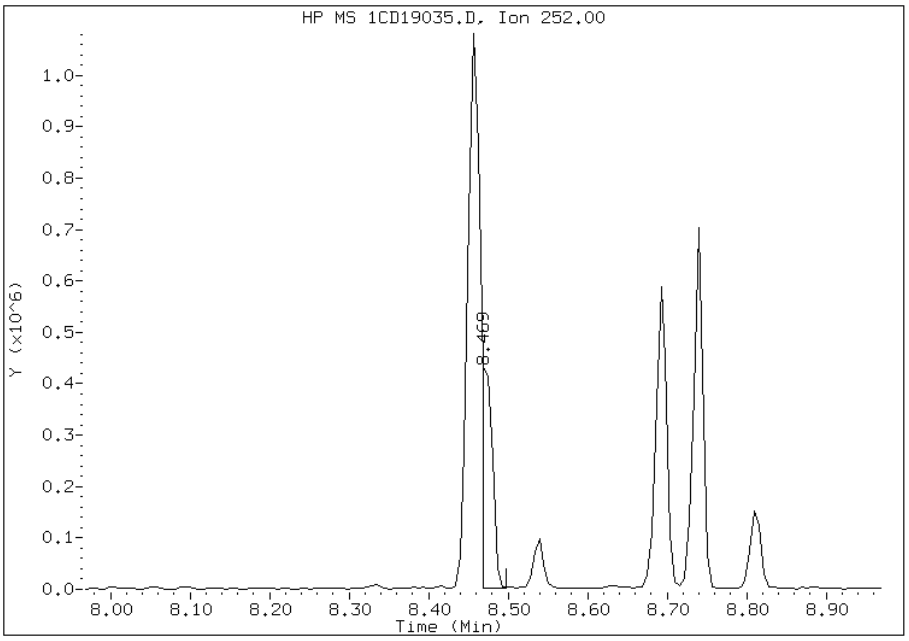
Manual Integration Results

RT: 8.47

Response: 404391

Amount: 38

Conc: 3330



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD19035.D
Inj. Date and Time: 19-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: CV0401B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

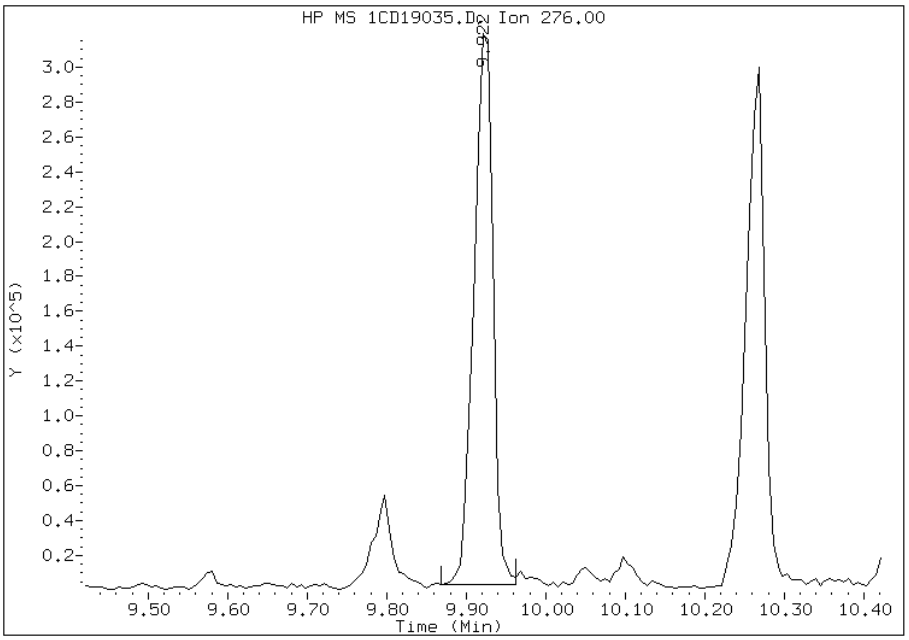
Processing Integration Results

RT: 9.92

Response: 523196

Amount: 54

Conc: 4803



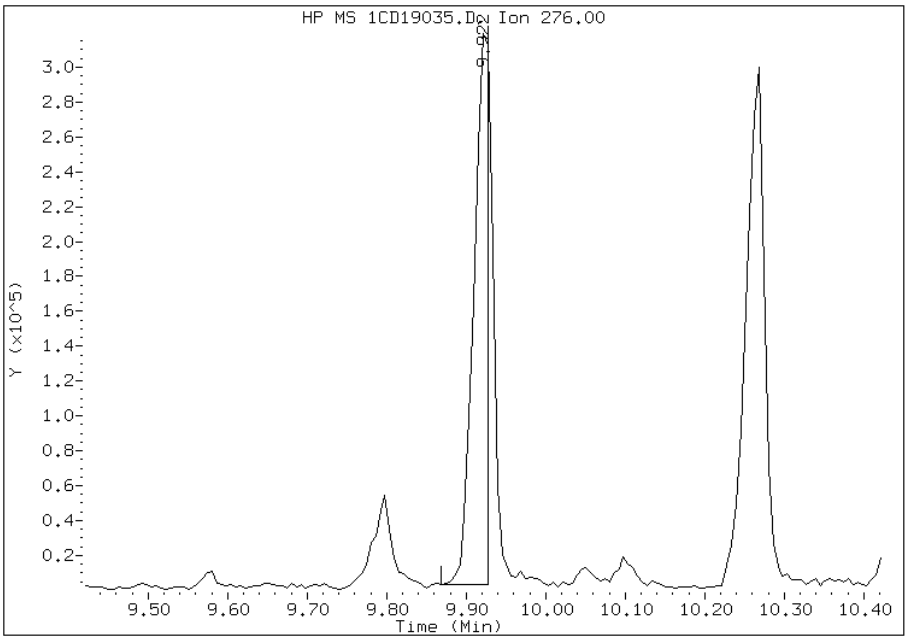
Manual Integration Results

RT: 9.92

Response: 421754

Amount: 44

Conc: 3883



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0401B-CS DL | Lab Sample ID: 680-89328-12 DL

Matrix: Solid | Lab File ID: 1CD22010.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 08:51

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.12(g) | Date Analyzed: 04/22/2013 14:33

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

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

% Moisture: 25.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	4400		55	28
205-99-2	Benzo[b]fluoranthene	8700		65	32
191-24-2	Benzo[g,h,i]perylene	5300		110	23
206-44-0	Fluoranthene	4000		110	21

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22010.D
Lab Smp Id: 680-89328-A-12-A Client Smp ID: CV0401B-CS
Inj Date : 22-APR-2013 14:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-A-12-A
Misc Info : 680-89328-A-12-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 10
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	25.277	% 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	3.651	3.651	(1.000)	247770	40.0000	
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	162851	40.0000	
* 10	Phenanthrene-d10	188	5.692	5.680	(1.000)	314204	40.0000	
$ 14	o-Terphenyl	230	5.939	5.933	(1.043)	6536	1.94583	688.9068
* 18	Chrysene-d12	240	7.627	7.615	(1.000)	370392	40.0000	
* 23	Perylene-d12	264	8.792	8.762	(1.000)	347828	40.0000	(H)
2	Naphthalene	128	3.663	3.663	(1.003)	5089	0.75982	269.0093(Q)
3	2-Methylnaphthalene	142	4.092	4.092	(1.121)	3338	1.01792	360.3854
4	1-Methylnaphthalene	142	4.157	4.151	(1.139)	1892	0.44224	156.5731(Q)
5	Acenaphthylene	152	4.651	4.651	(0.981)	3995	0.57893	204.9673
7	Acenaphthene	154	4.762	4.757	(1.005)	1410	0.33906	120.0403
9	Fluorene	166	5.080	5.080	(1.072)	2093	0.39549	140.0214
11	Phenanthrene	178	5.704	5.698	(1.002)	56697	6.15636	2179.6108
12	Anthracene	178	5.739	5.733	(1.008)	11349	1.24418	440.4913

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.839	(1.027)	6017	0.70826	250.7535
15 Fluoranthene	202	6.539	6.527	(1.149)	115726	11.3537	4019.6696
16 Pyrene	202	6.704	6.692	(0.879)	98899	9.38564	3322.9121
17 Benzo(a)anthracene	228	7.615	7.603	(0.998)	86868	8.29371	2936.3227
19 Chrysene	228	7.645	7.633	(1.002)	103209	9.96095	3526.5956
20 Benzo(b)fluoranthene	252	8.456	8.433	(0.962)	216609	24.6560	8729.2577(MH)
21 Benzo(k)fluoranthene	252	8.474	8.456	(0.964)	57155	5.74943	2035.5400(QM)
22 Benzo(a)pyrene	252	8.739	8.709	(0.994)	113392	12.4865	4420.7410(H)
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.874	(1.127)	104595	12.2327	4330.8854(MH)
25 Dibenzo(a,h)anthracene	278	9.921	9.886	(1.128)	31366	3.96859	1405.0480(H)
26 Benzo(g,h,i)perylene	276	10.239	10.209	(1.165)	127908	15.0271	5320.2221(H)

QC Flag Legend

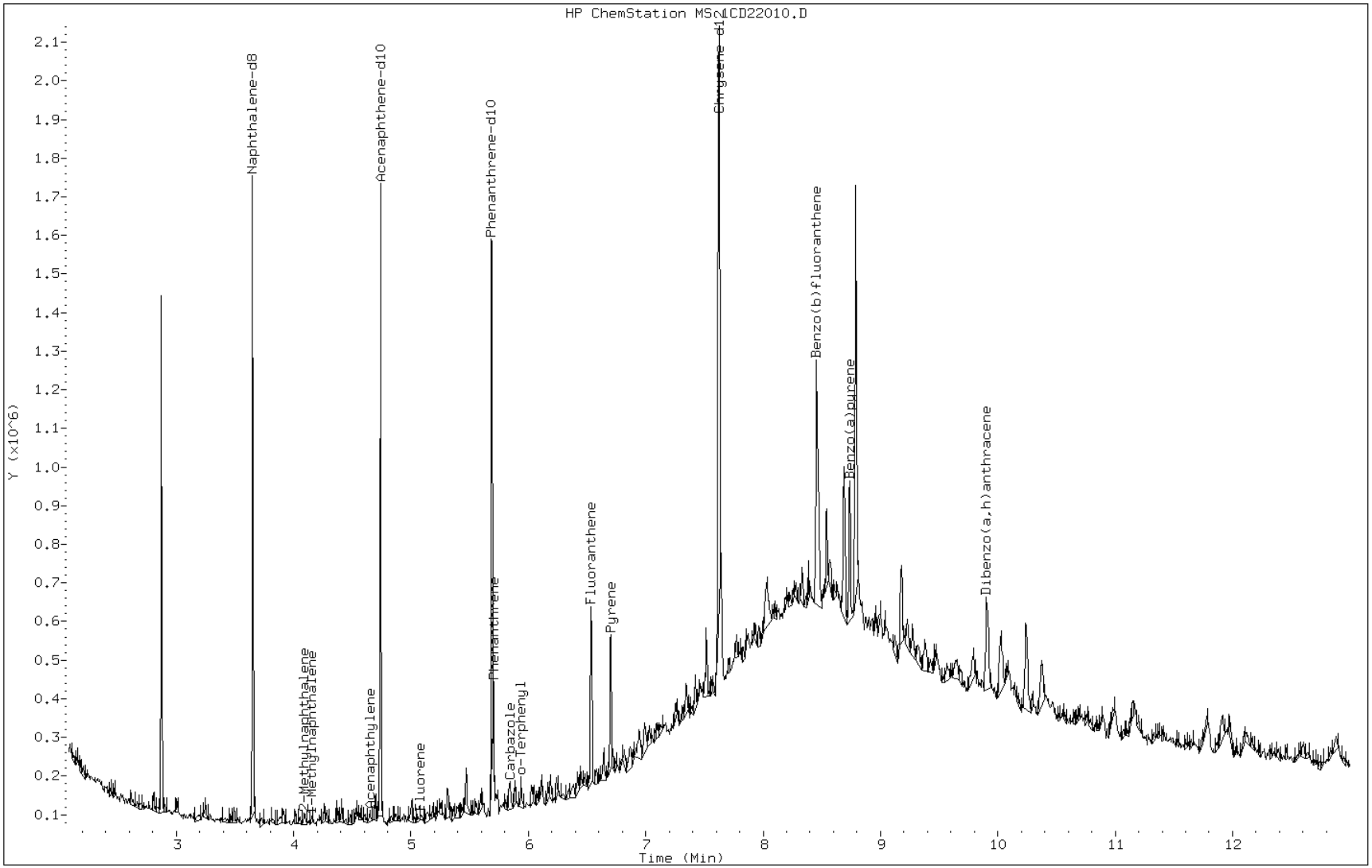
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22010.D

Date: 22-APR-2013 14:33

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-A-12-A Operator: SCC



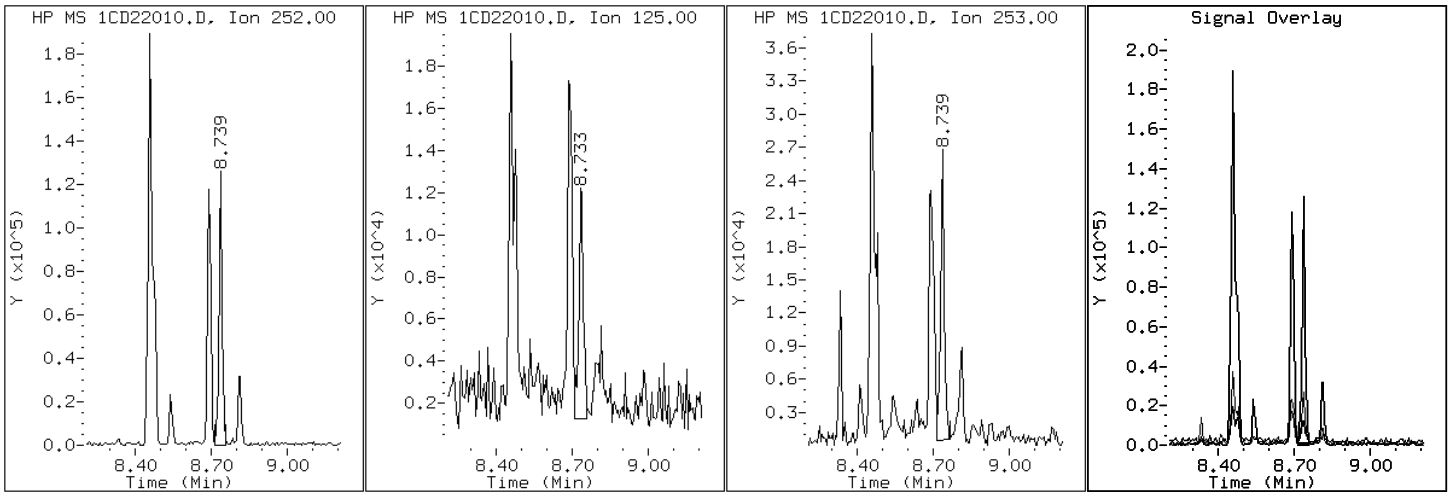
Data File: 1CD22010.D

Date: 22-APR-2013 14:33

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-A-12-A Operator: SCC

22 Benzo(a)pyrene



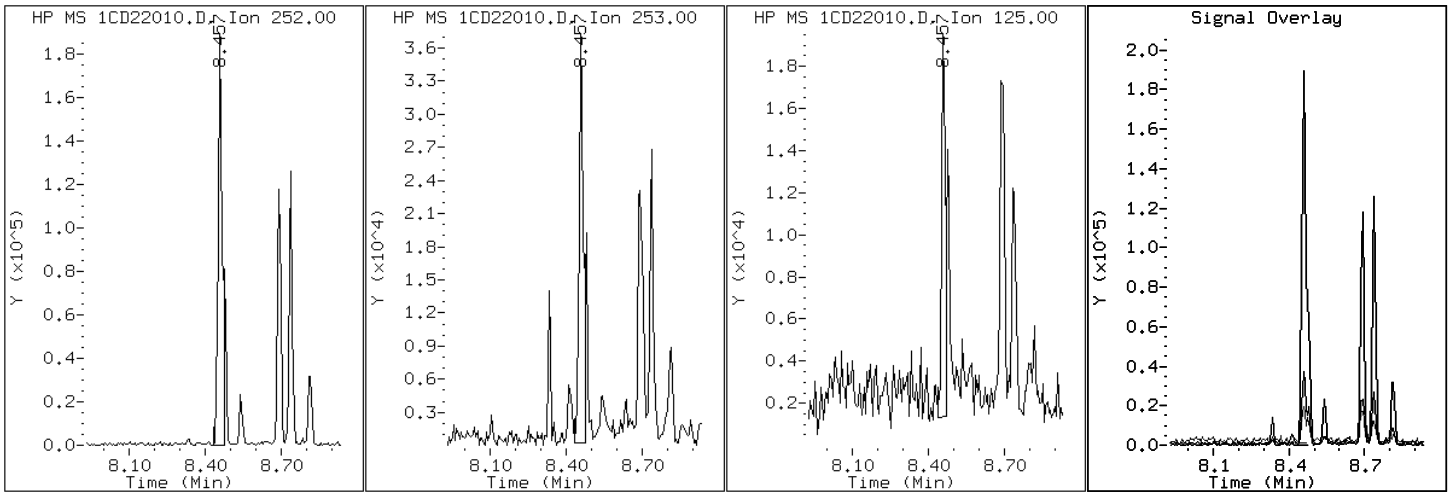
Data File: 1CD22010.D

Date: 22-APR-2013 14:33

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-A-12-A Operator: SCC

20 Benzo(b)fluoranthene



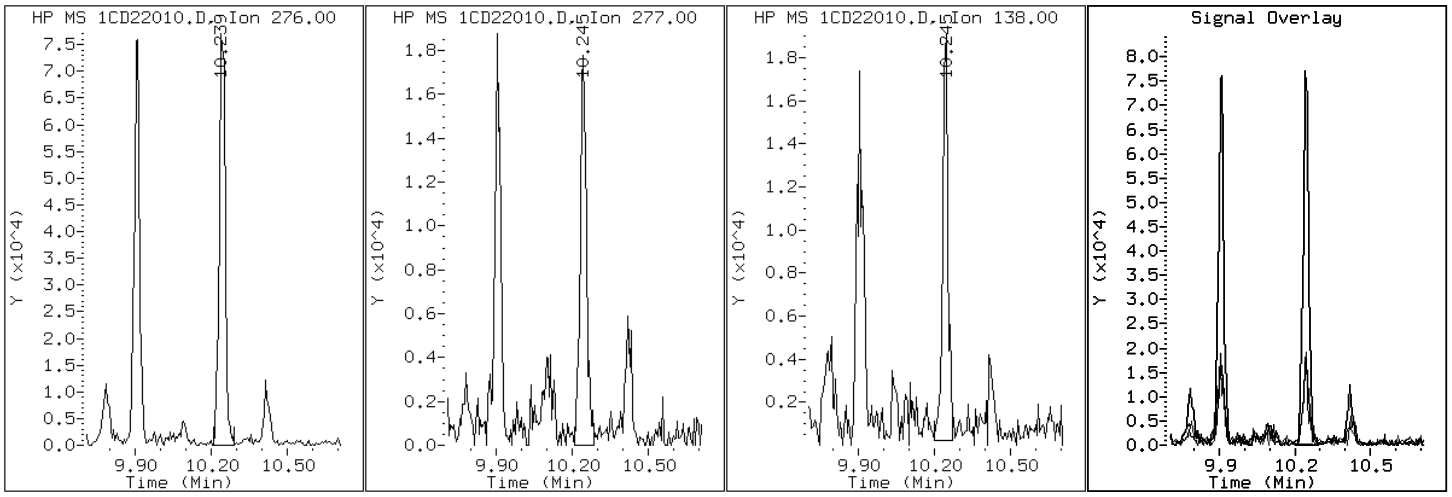
Data File: 1CD22010.D

Date: 22-APR-2013 14:33

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-A-12-A Operator: SCC

26 Benzo(g,h,i)perylene



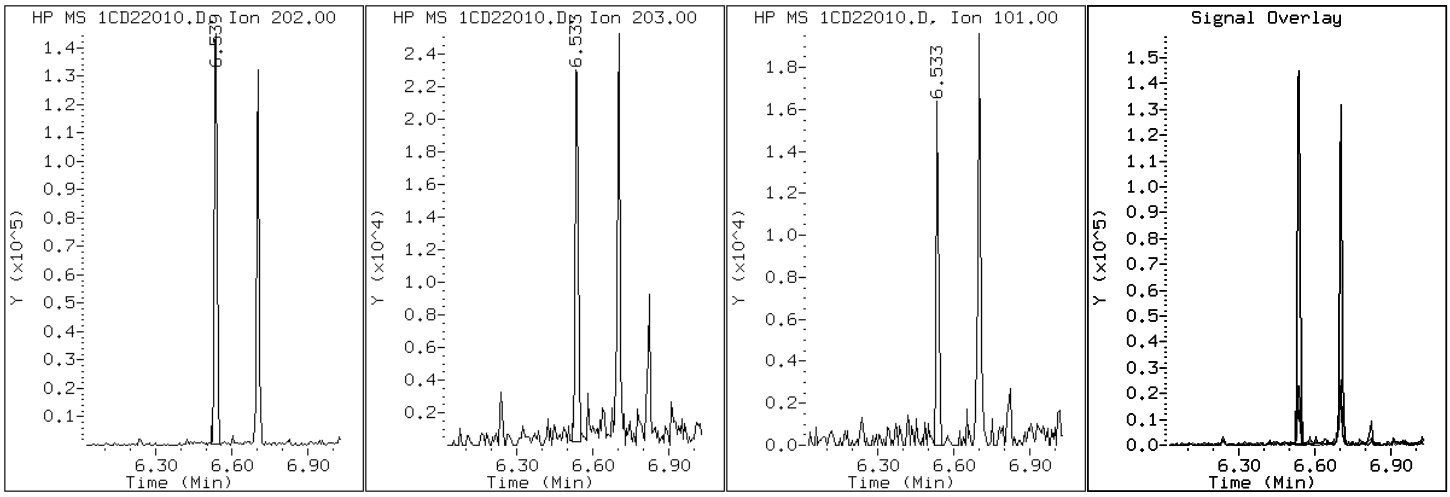
Data File: 1CD22010.D

Date: 22-APR-2013 14:33

Client ID: CV0401B-CS Instrument: BSMC5973.i

Sample Info: 680-89328-A-12-A Operator: SCC

15 Fluoranthene



Manual Integration Report

Data File: 1CD22010.D
Inj. Date and Time: 22-APR-2013 14:33
Instrument ID: BSMC5973.i
Client ID: CV0401B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

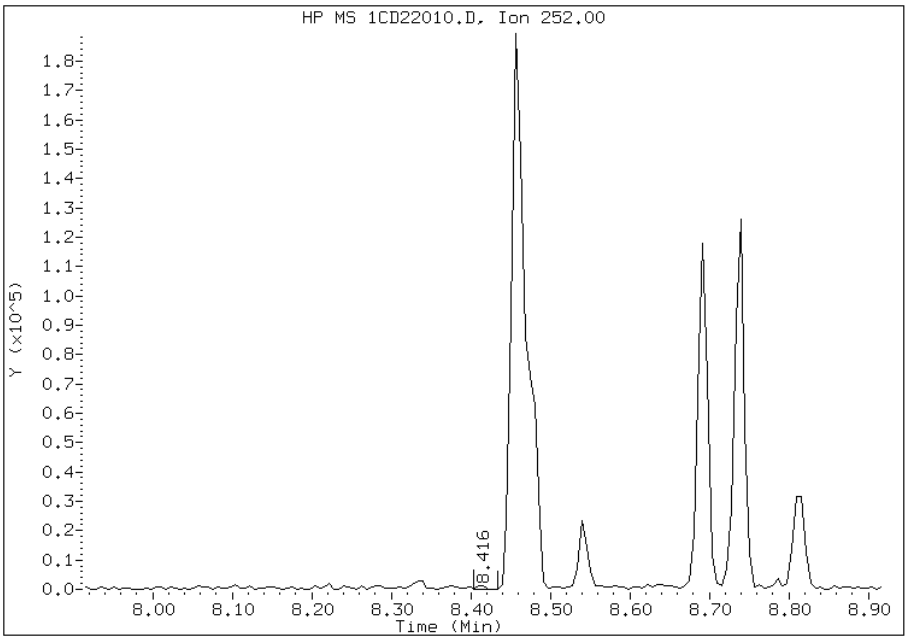
Processing Integration Results

RT: 8.42

Response: 1098

Amount: 0

Conc: 44



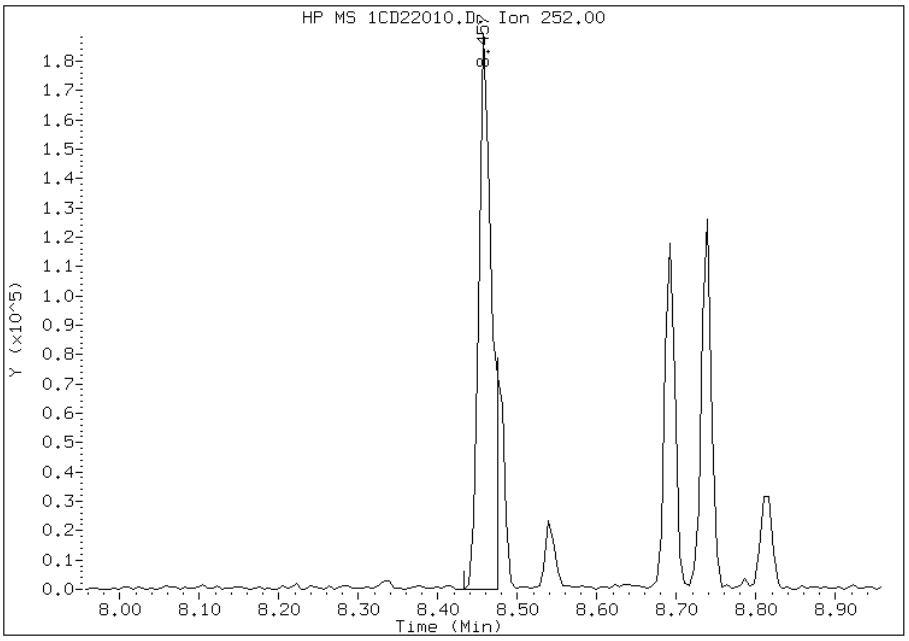
Manual Integration Results

RT: 8.46

Response: 216609

Amount: 25

Conc: 8729



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0405A-CS | Lab Sample ID: 680-89328-13

Matrix: Solid | Lab File ID: 1DD22010.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:16

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.19(g) | Date Analyzed: 04/22/2013 13:23

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

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

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

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	25	J	120	23
208-96-8	Acenaphthylene	25	J	47	5.8
120-12-7	Anthracene	79		9.8	4.9
56-55-3	Benzo[a]anthracene	370		9.3	4.6
50-32-8	Benzo[a]pyrene	420		12	6.1
205-99-2	Benzo[b]fluoranthene	700		14	7.1
191-24-2	Benzo[g,h,i]perylene	260		23	5.1
207-08-9	Benzo[k]fluoranthene	200		9.3	4.2
218-01-9	Chrysene	420		11	5.3
53-70-3	Dibenz(a,h)anthracene	87		23	4.8
206-44-0	Fluoranthene	630		23	4.7
86-73-7	Fluorene	20	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	230		23	8.3
90-12-0	1-Methylnaphthalene	37	J	47	5.1
91-57-6	2-Methylnaphthalene	48		47	8.3
91-20-3	Naphthalene	41	J	47	5.1
85-01-8	Phenanthrene	290		9.3	4.6
129-00-0	Pyrene	410		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22010.D
Lab Smp Id: 680-89328-A-13-A Client Smp ID: CV0405A-CS
Inj Date : 22-APR-2013 13:23
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-13-A
Misc Info : 680-89328-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	15.368	% 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	6.060	6.054	(1.000)	2001757	40.0000	
* 6	Acenaphthene-d10	164	7.740	7.734	(1.000)	1182774	40.0000	
* 9	Phenanthrene-d10	188	9.004	8.998	(1.000)	1978694	40.0000	
$ 13	o-Terphenyl	230	9.309	9.309	(1.034)	157579	5.28545	410
* 17	Chrysene-d12	240	11.319	11.307	(1.000)	2382475	40.0000	
* 22	Perylene-d12	264	13.163	13.122	(1.000)	2763186	40.0000	
2	Naphthalene	128	6.078	6.077	(1.003)	26247	0.52753	41
3	2-Methylnaphthalene	142	6.783	6.783	(1.119)	19731	0.61432	48
4	1-Methylnaphthalene	142	6.877	6.877	(1.135)	14467	0.47697	37
5	Acenaphthylene	152	7.611	7.611	(0.983)	15860	0.31682	25
7	Acenaphthene	154	7.764	7.764	(1.003)	10036	0.32478	25
8	Fluorene	166	8.210	8.204	(1.061)	9197	0.25134	20
10	Phenanthrene	178	9.015	9.015	(1.001)	204907	3.75959	290
11	Anthracene	178	9.056	9.056	(1.006)	54733	1.01179	79

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.197	9.197	(1.022)	33932	0.71113	55
14 Fluoranthene	202	10.002	10.002	(1.111)	450725	8.03636	620
15 Pyrene	202	10.190	10.184	(0.900)	375754	5.25196	410
16 Benzo(a)anthracene	228	11.307	11.289	(0.999)	328330	4.76655	370
18 Chrysene	228	11.342	11.330	(1.002)	344814	5.33876	420
19 Benzo(b)fluoranthene	252	12.611	12.582	(0.958)	617309	8.94326	700
20 Benzo(k)fluoranthene	252	12.640	12.623	(0.960)	191005	2.62665	200
21 Benzo(a)pyrene	252	13.064	13.034	(0.992)	373804	5.38979	420
23 Indeno(1,2,3-cd)pyrene	276	14.750	14.709	(1.121)	216468	2.92714	230(M)
24 Dibenzo(a,h)anthracene	278	14.767	14.732	(1.122)	77779	1.11688	87
25 Benzo(g,h,i)perylene	276	15.190	15.143	(1.154)	238783	3.35343	260

QC Flag Legend

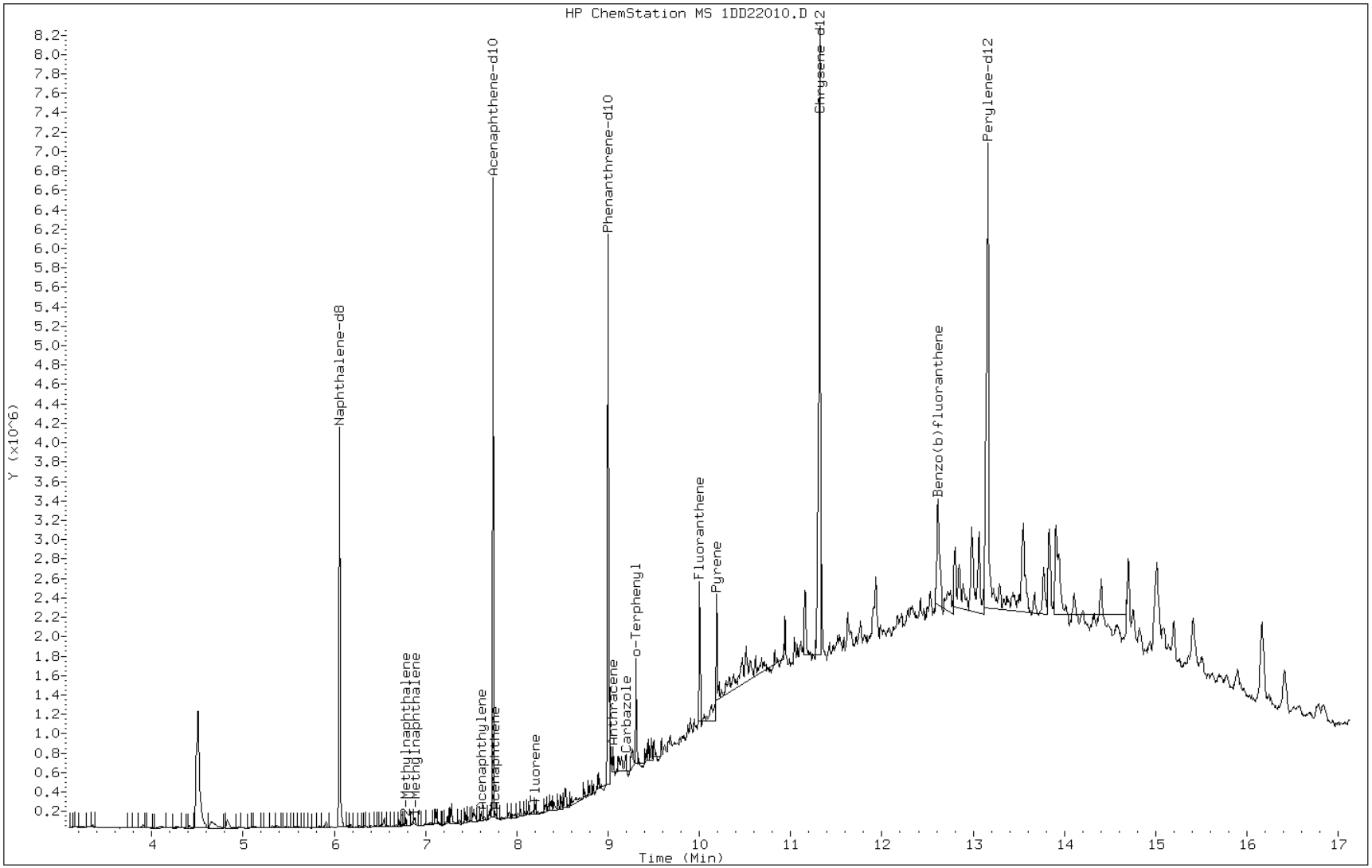
M - Compound response manually integrated.

Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC



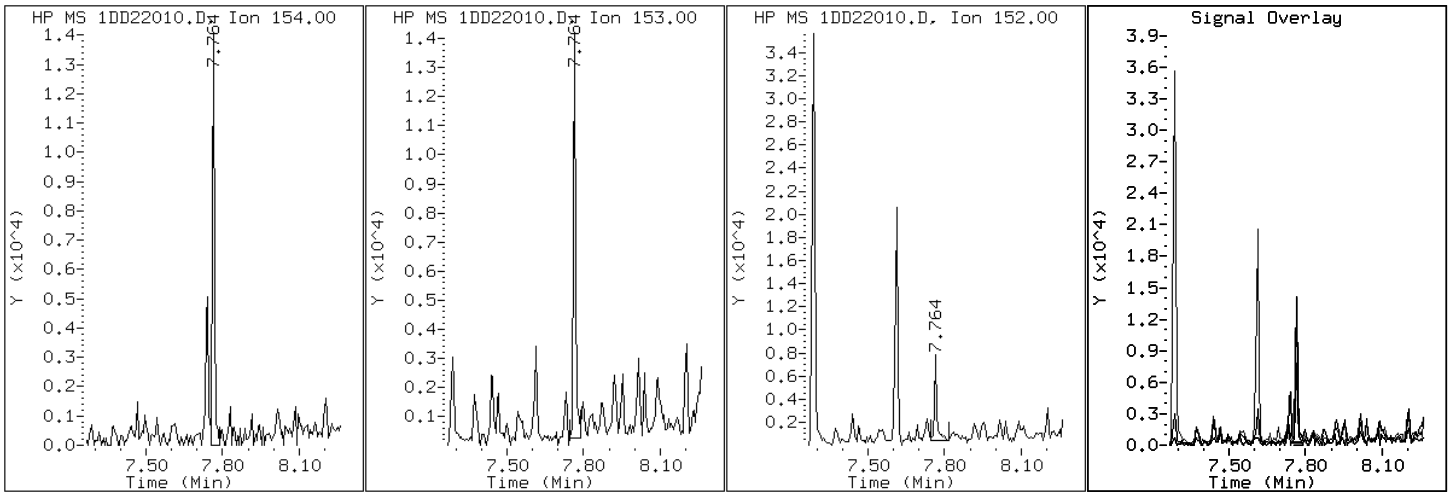
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

7 Acenaphthene



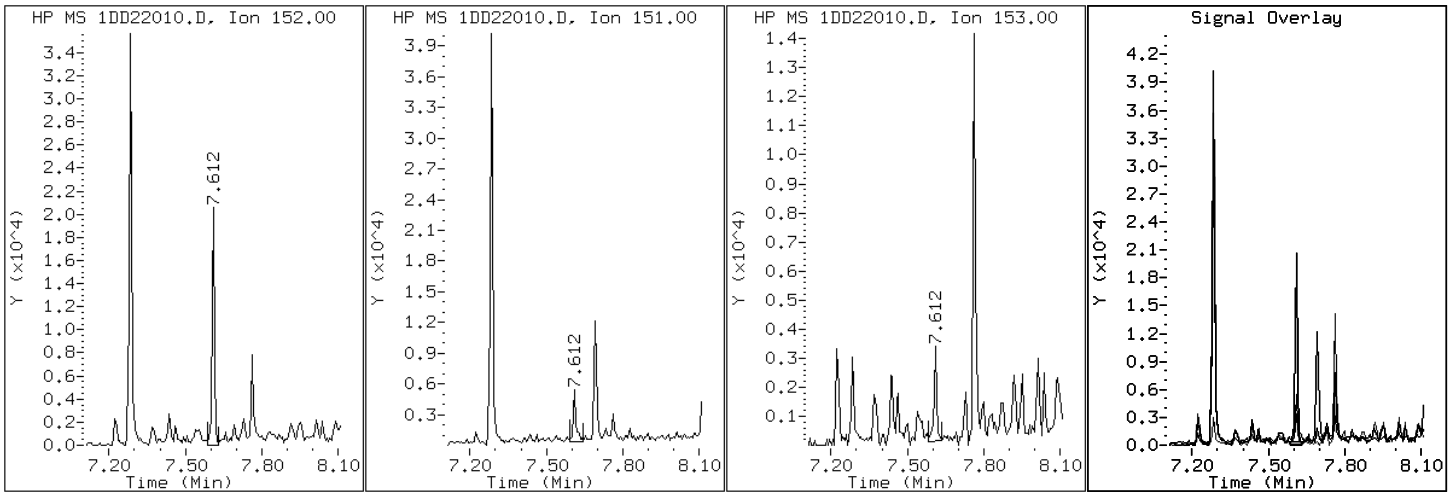
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

5 Acenaphthylene



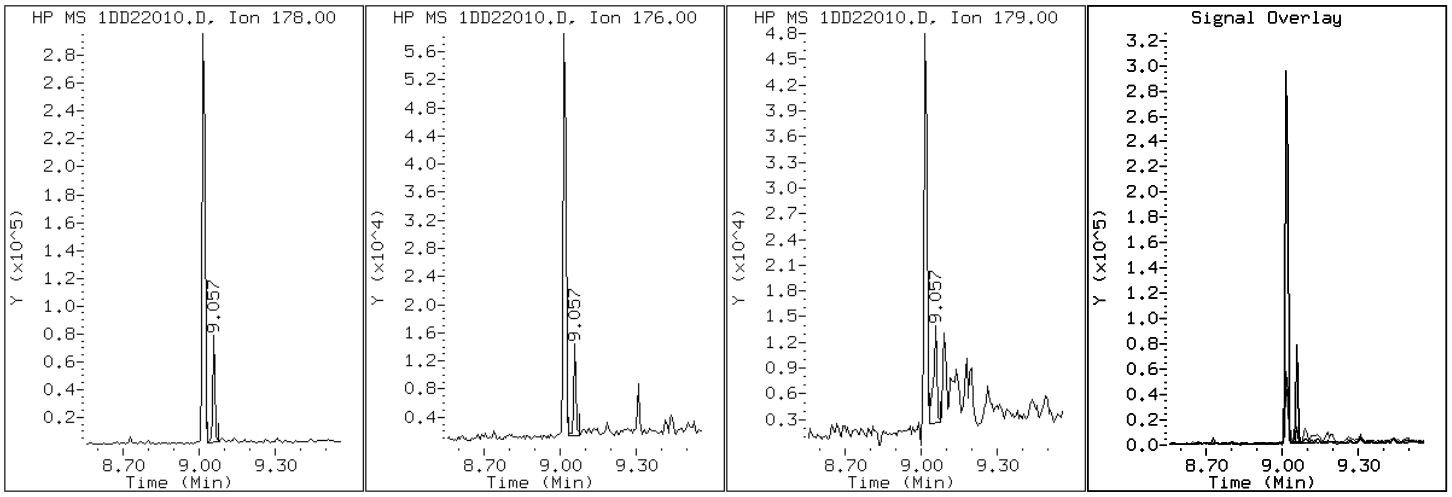
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

11 Anthracene



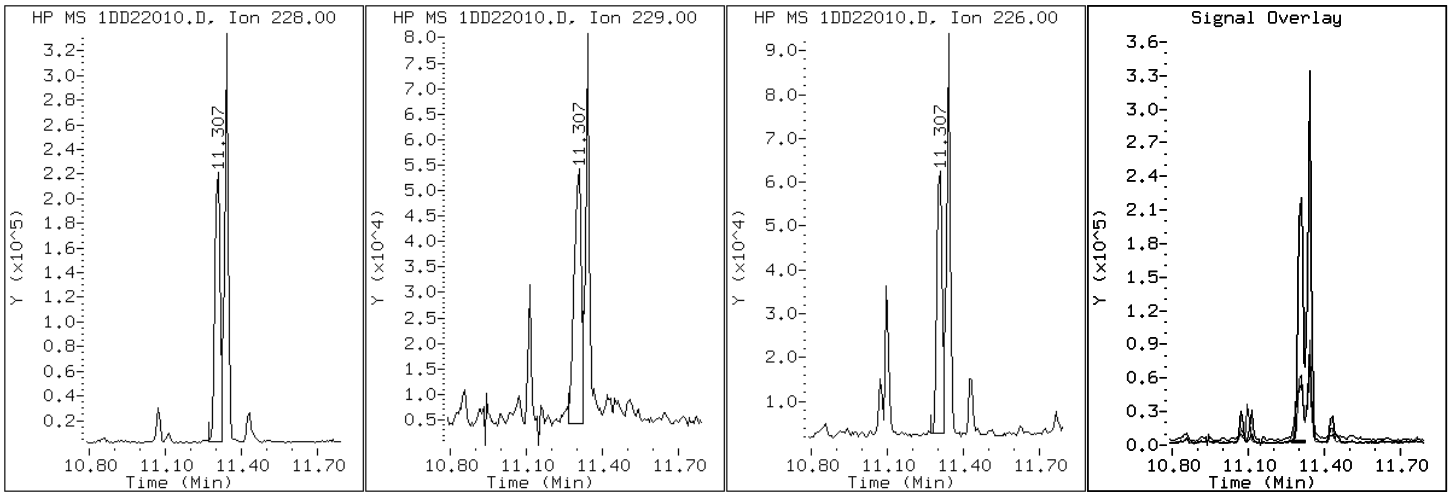
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

16 Benzo(a)anthracene



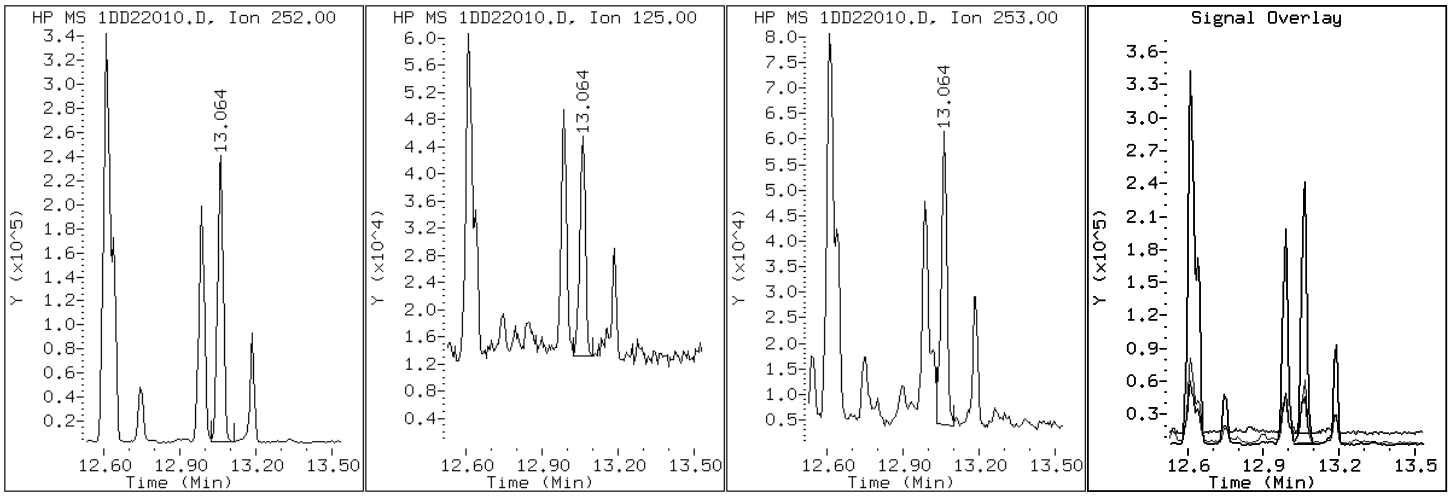
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

21 Benzo(a)pyrene



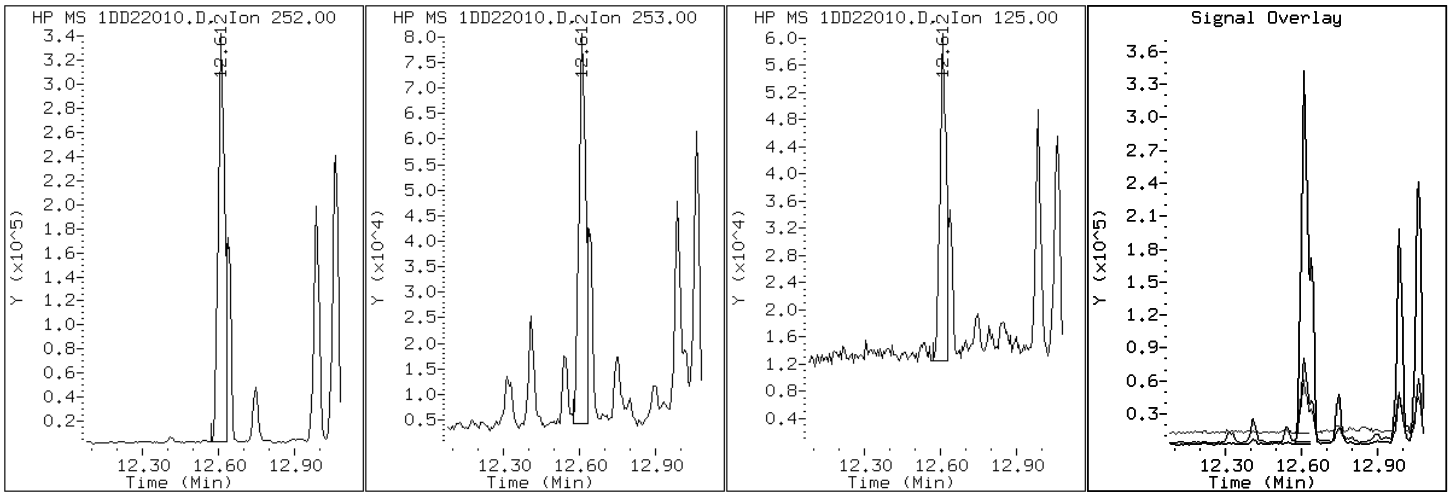
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

19 Benzo(b)fluoranthene



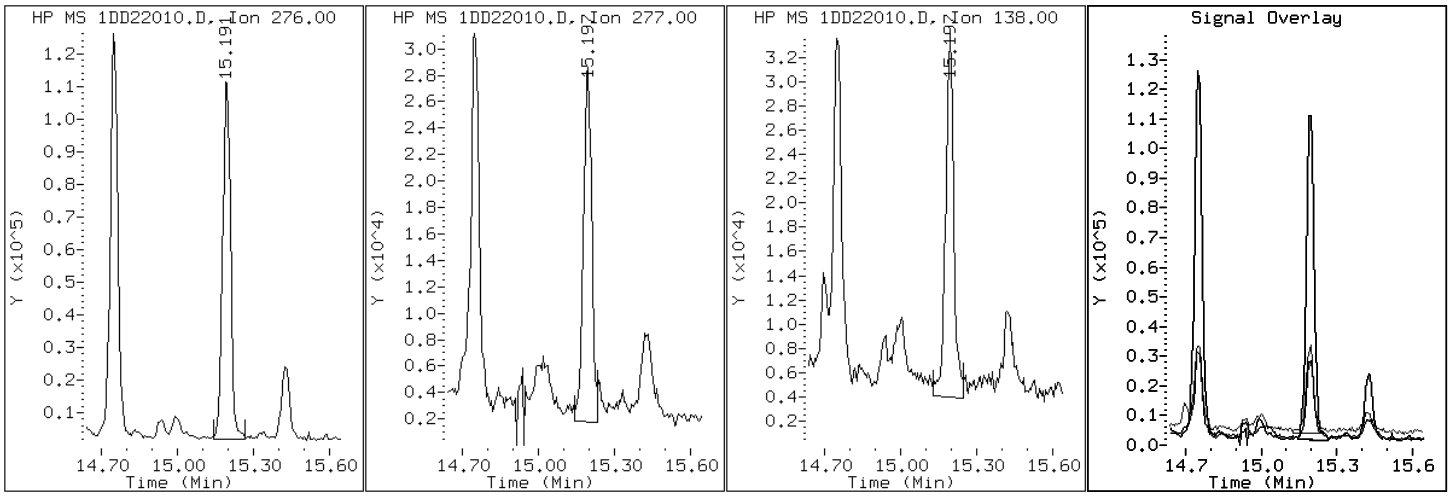
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

25 Benzo(g,h,i)perylene



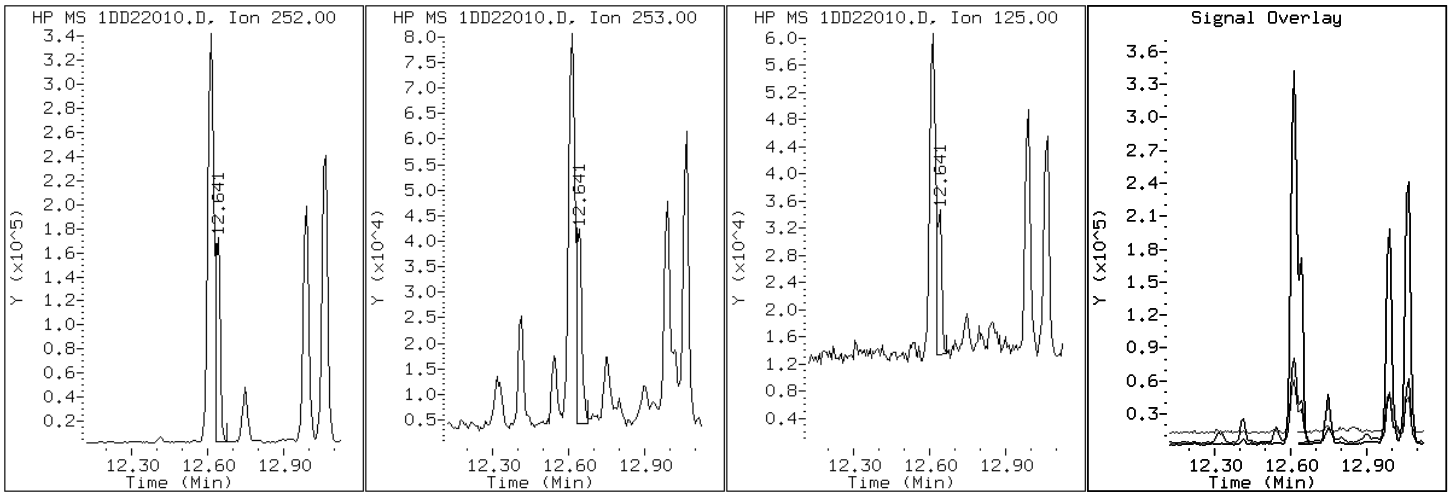
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

20 Benzo(k)fluoranthene



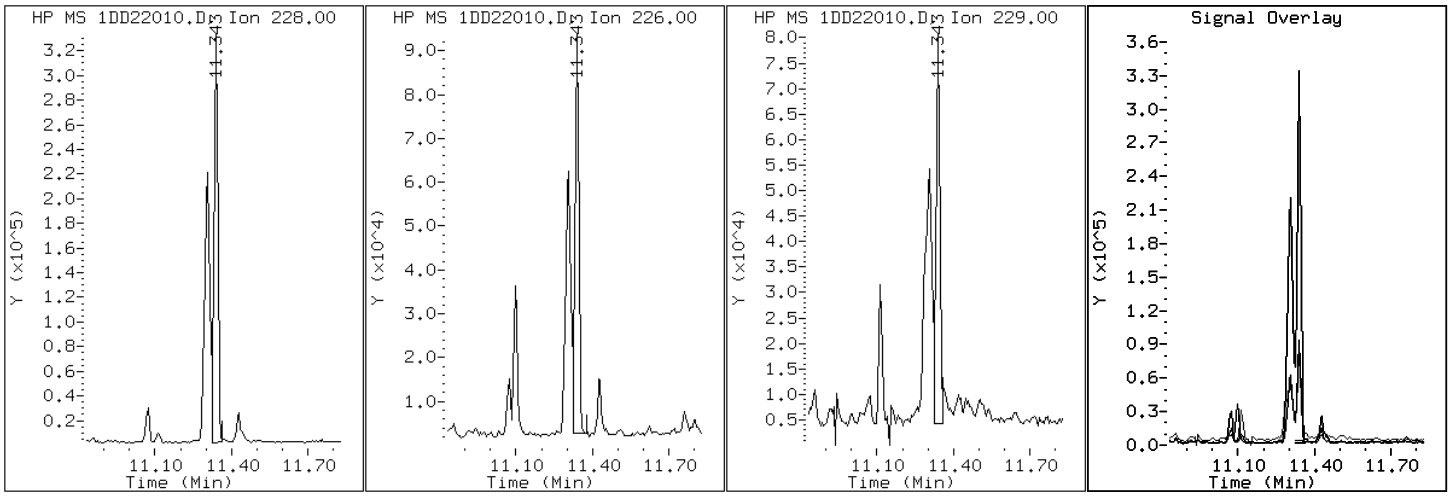
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

18 Chrysene



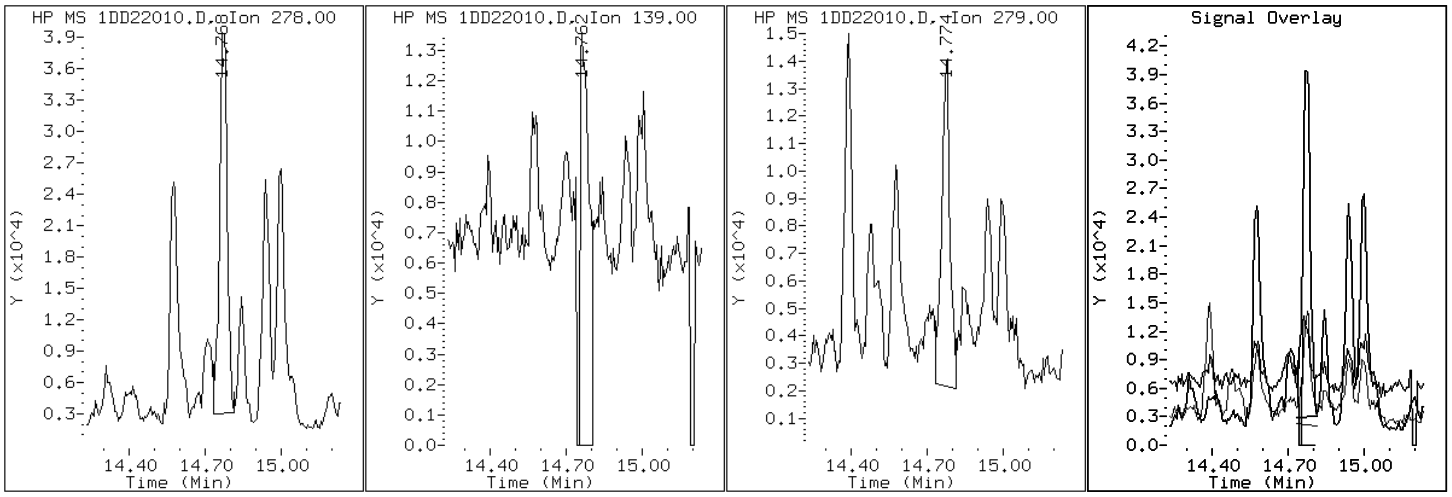
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

24 Dibenzo(a,h)anthracene



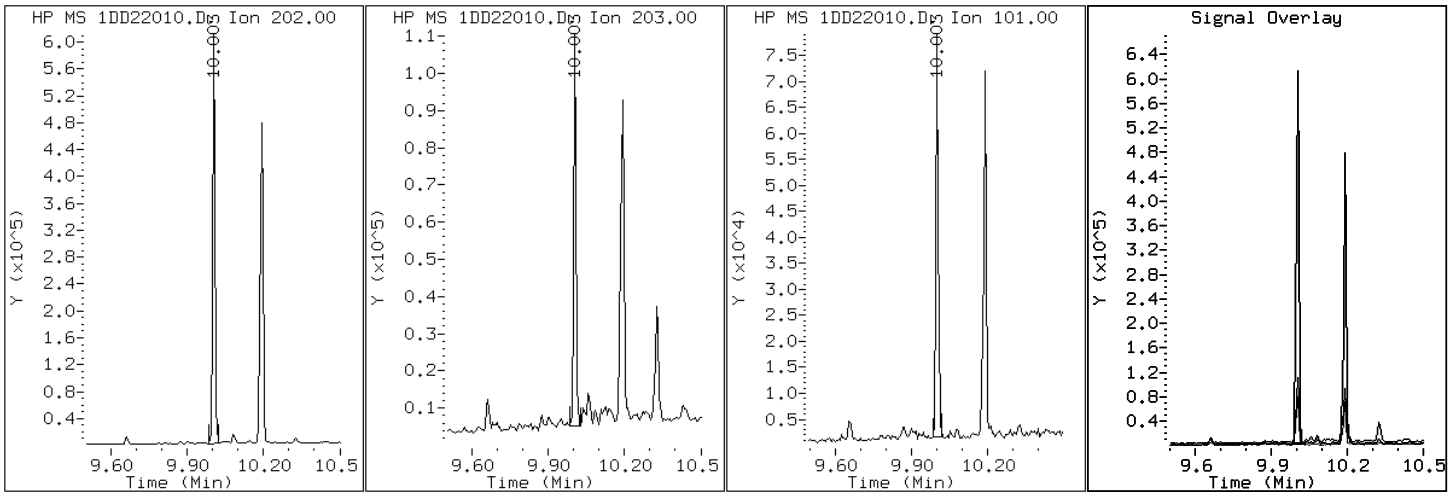
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

14 Fluoranthene



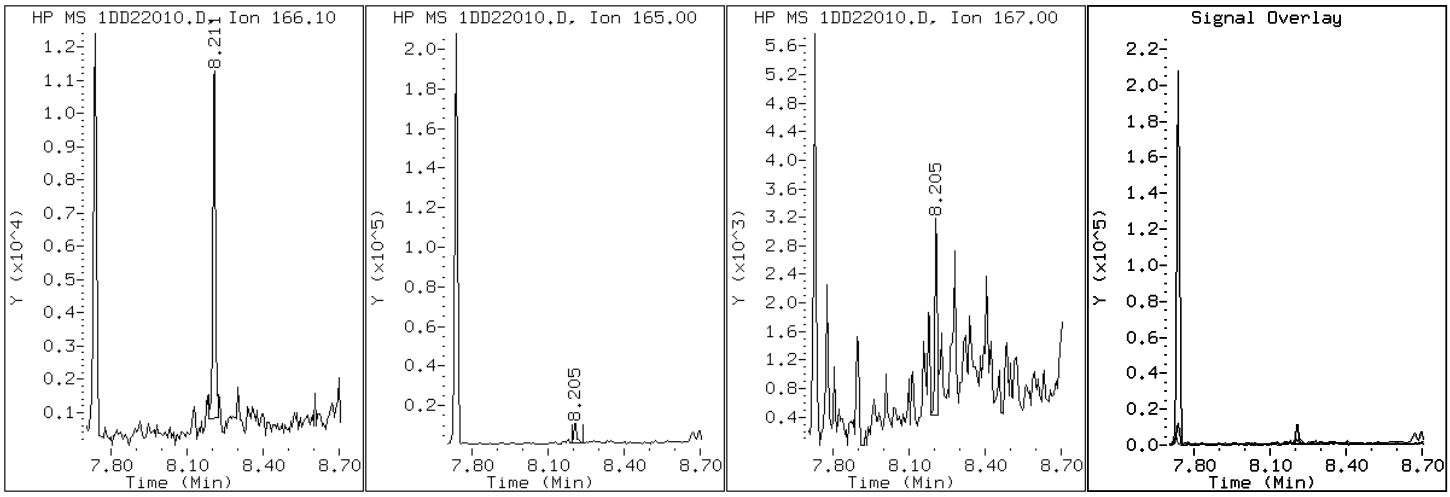
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

8 Fluorene



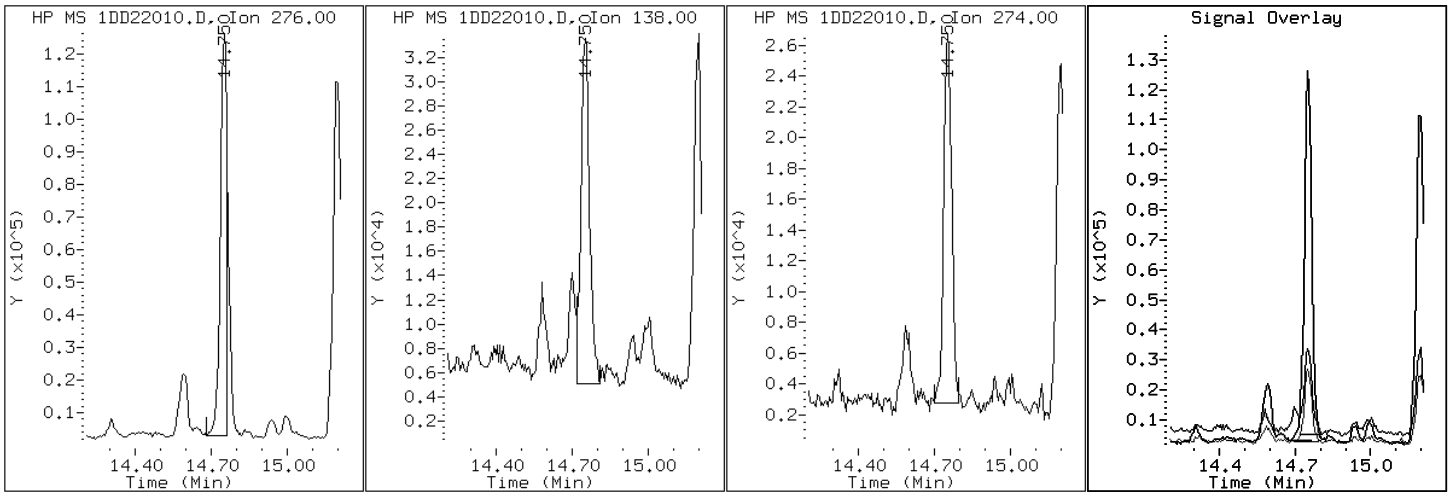
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

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



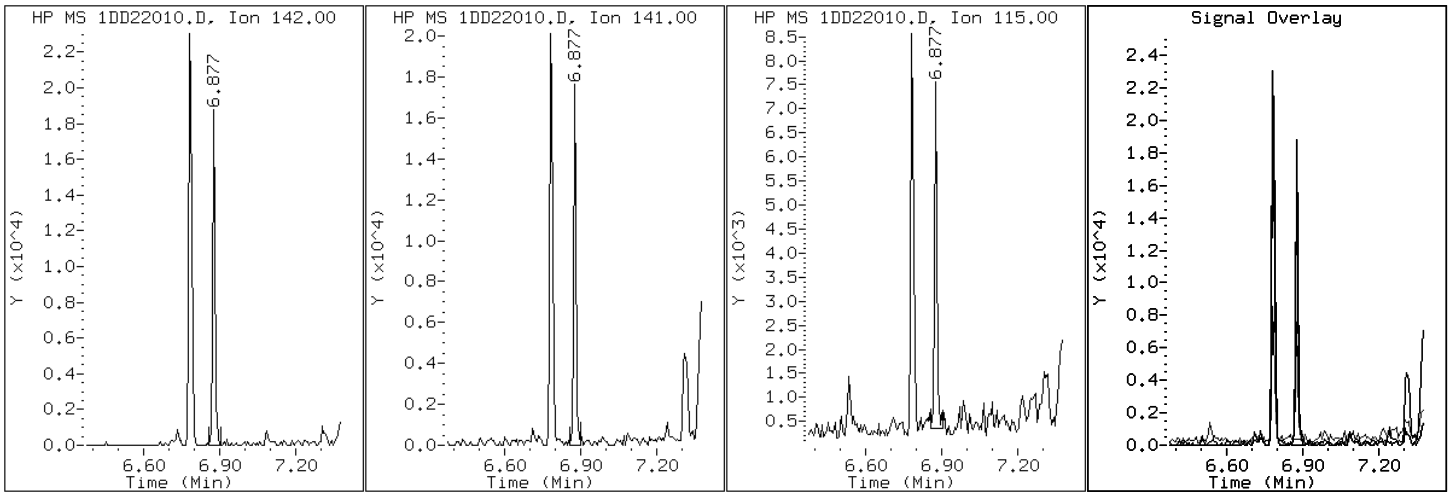
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

4 1-Methylnaphthalene



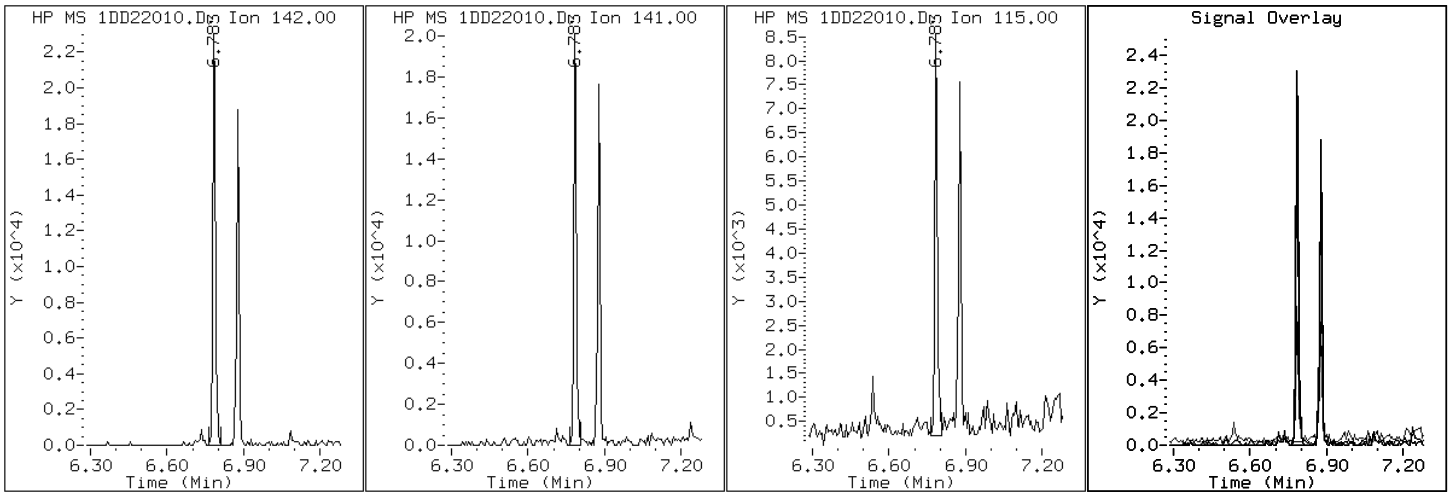
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

3 2-Methylnaphthalene



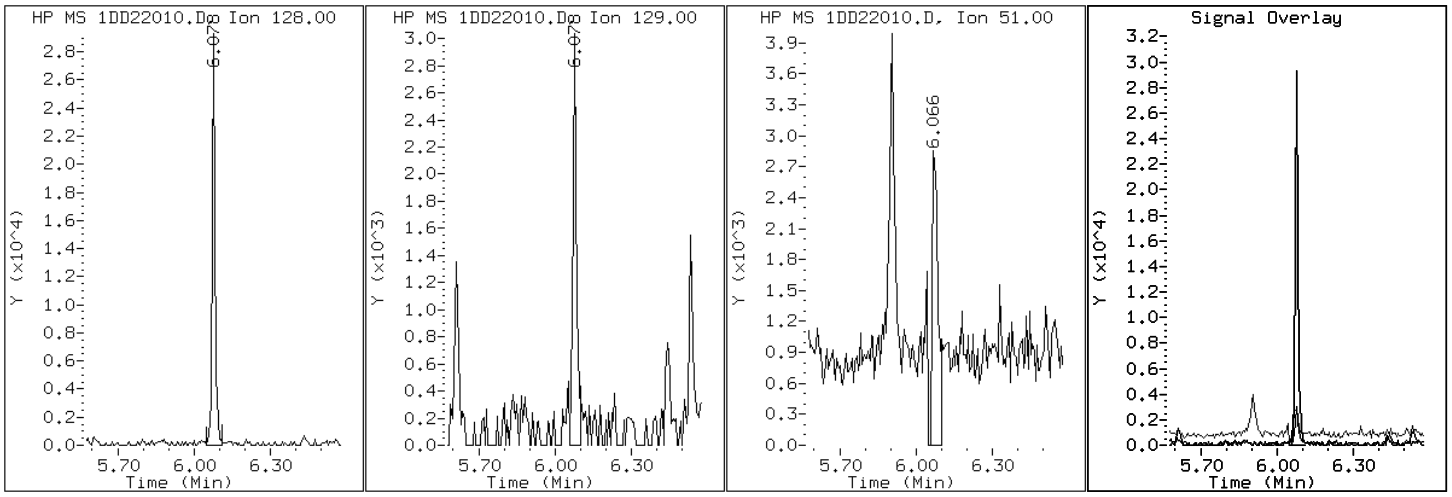
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

2 Naphthalene



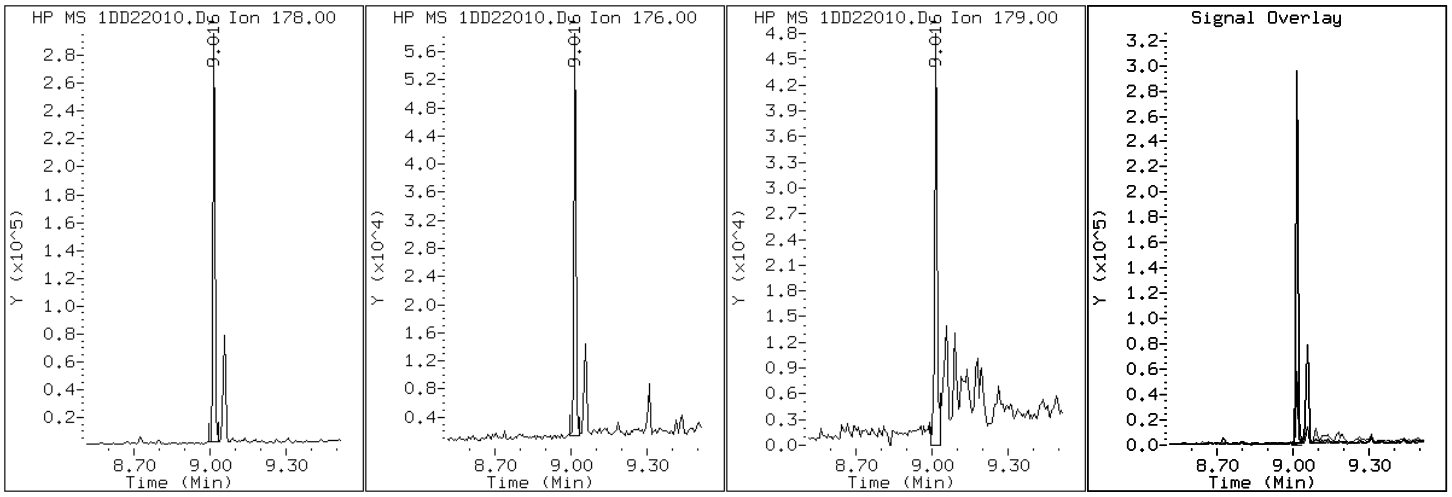
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

10 Phenanthrene



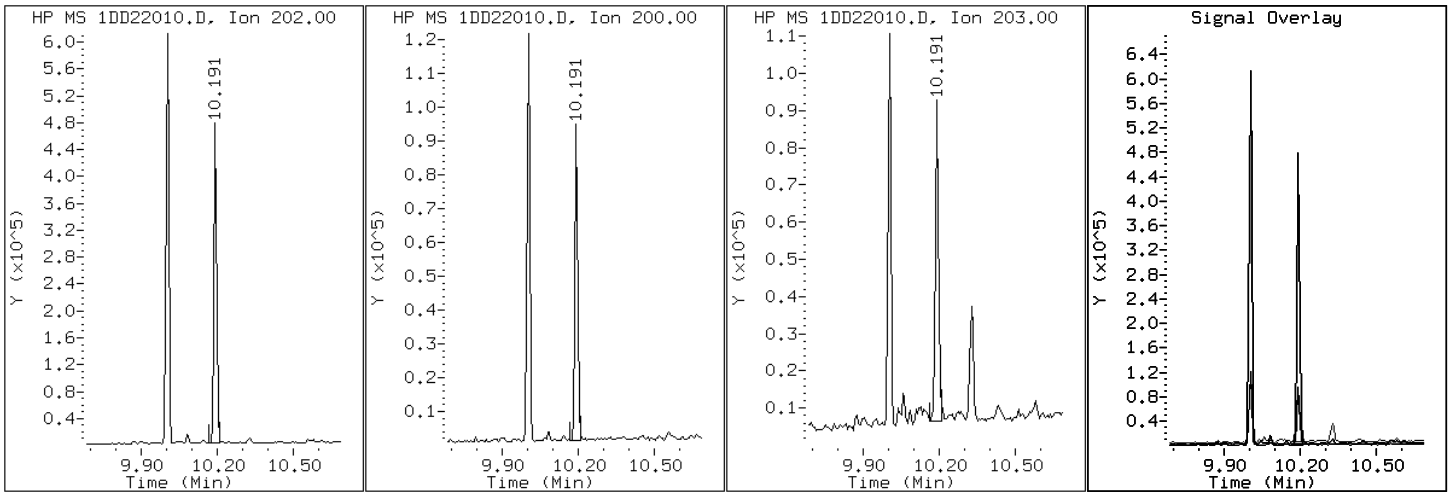
Data File: 1DD22010.D

Date: 22-APR-2013 13:23

Client ID: CV0405A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-13-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22010.D
Inj. Date and Time: 22-APR-2013 13:23
Instrument ID: BSMSD.i
Client ID: CV0405A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

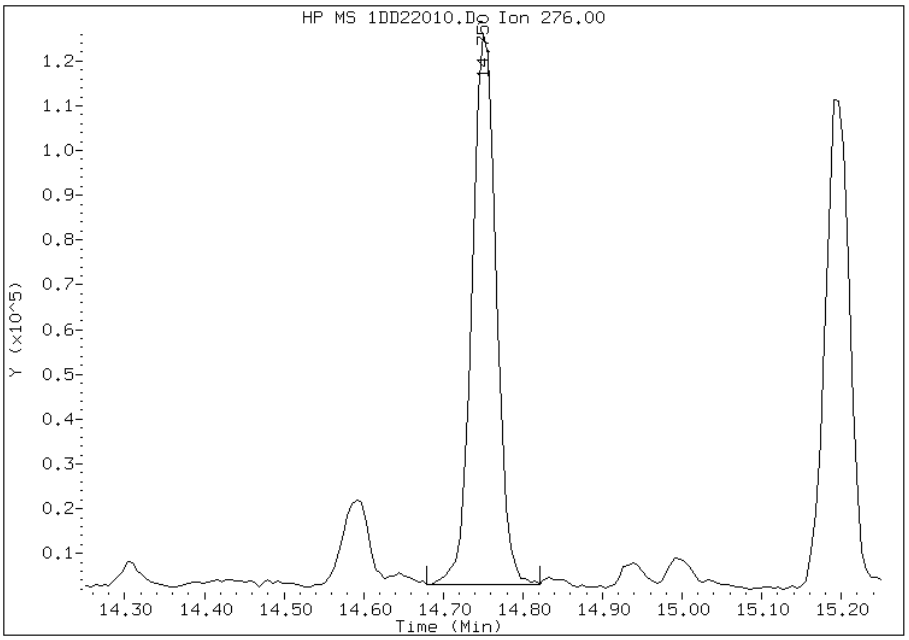
Processing Integration Results

RT: 14.75

Response: 260878

Amount: 4

Conc: 274



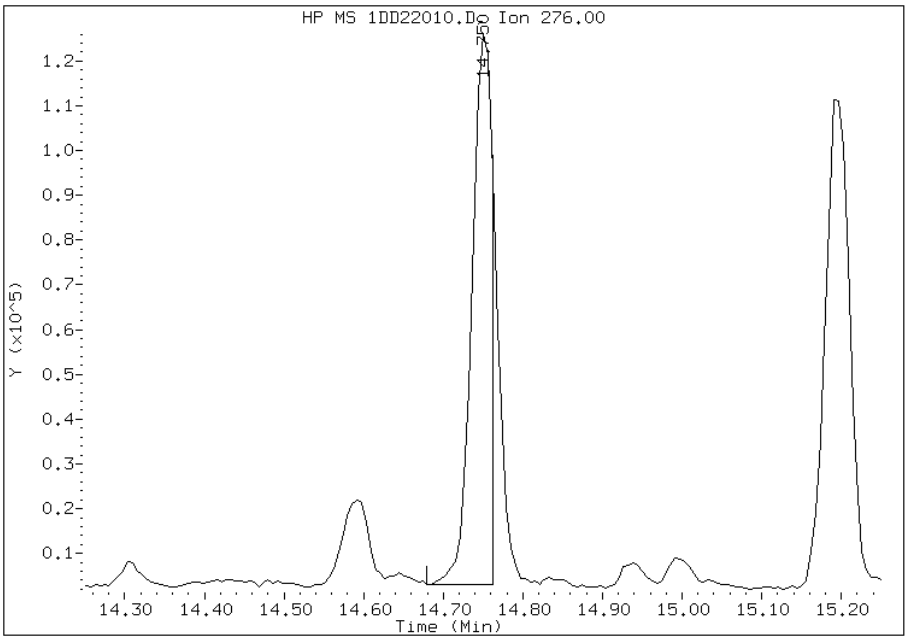
Manual Integration Results

RT: 14.75

Response: 216468

Amount: 3

Conc: 228



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0405B-CS | Lab Sample ID: 680-89328-14

Matrix: Solid | Lab File ID: 1DD22011.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:24

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.22(g) | Date Analyzed: 04/22/2013 13:46

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

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

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	51	U	51	6.3
120-12-7	Anthracene	11	U	11	5.3
56-55-3	Benzo[a]anthracene	10	U	10	4.9
50-32-8	Benzo[a]pyrene	13	U	13	6.6
205-99-2	Benzo[b]fluoranthene	15	U	15	7.7
191-24-2	Benzo[g,h,i]perylene	25	U	25	5.6
207-08-9	Benzo[k]fluoranthene	10	U	10	4.6
218-01-9	Chrysene	11	U	11	5.7
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.2
206-44-0	Fluoranthene	25	U	25	5.1
86-73-7	Fluorene	25	U	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	25	U	25	9.0
90-12-0	1-Methylnaphthalene	51	U	51	5.6
91-57-6	2-Methylnaphthalene	51	U	51	9.0
91-20-3	Naphthalene	51	U	51	5.6
85-01-8	Phenanthrene	10	U	10	4.9
129-00-0	Pyrene	25	U	25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22011.D
Lab Smp Id: 680-89328-A-14-A Client Smp ID: CV0405B-CS
Inj Date : 22-APR-2013 13:46
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-14-A
Misc Info : 680-89328-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 11
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	15.220	Weight Extracted
M	22.329	% 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	6.056	6.054	(1.000)	1926956	40.0000	
* 6 Acenaphthene-d10	164	7.742	7.734	(1.000)	1118788	40.0000	
* 9 Phenanthrene-d10	188	9.000	8.998	(1.000)	1854086	40.0000	
$ 13 o-Terphenyl	230	9.311	9.309	(1.035)	218539	7.82279	660
* 17 Chrysene-d12	240	11.315	11.307	(1.000)	1963314	40.0000	
* 22 Perylene-d12	264	13.142	13.122	(1.000)	2281881	40.0000	
10 Phenanthrene	178	9.017	9.015	(1.002)	1550	0.03035	2.6(Q)
14 Fluoranthene	202	10.004	10.002	(1.112)	2009	0.03823	3.2

QC Flag Legend

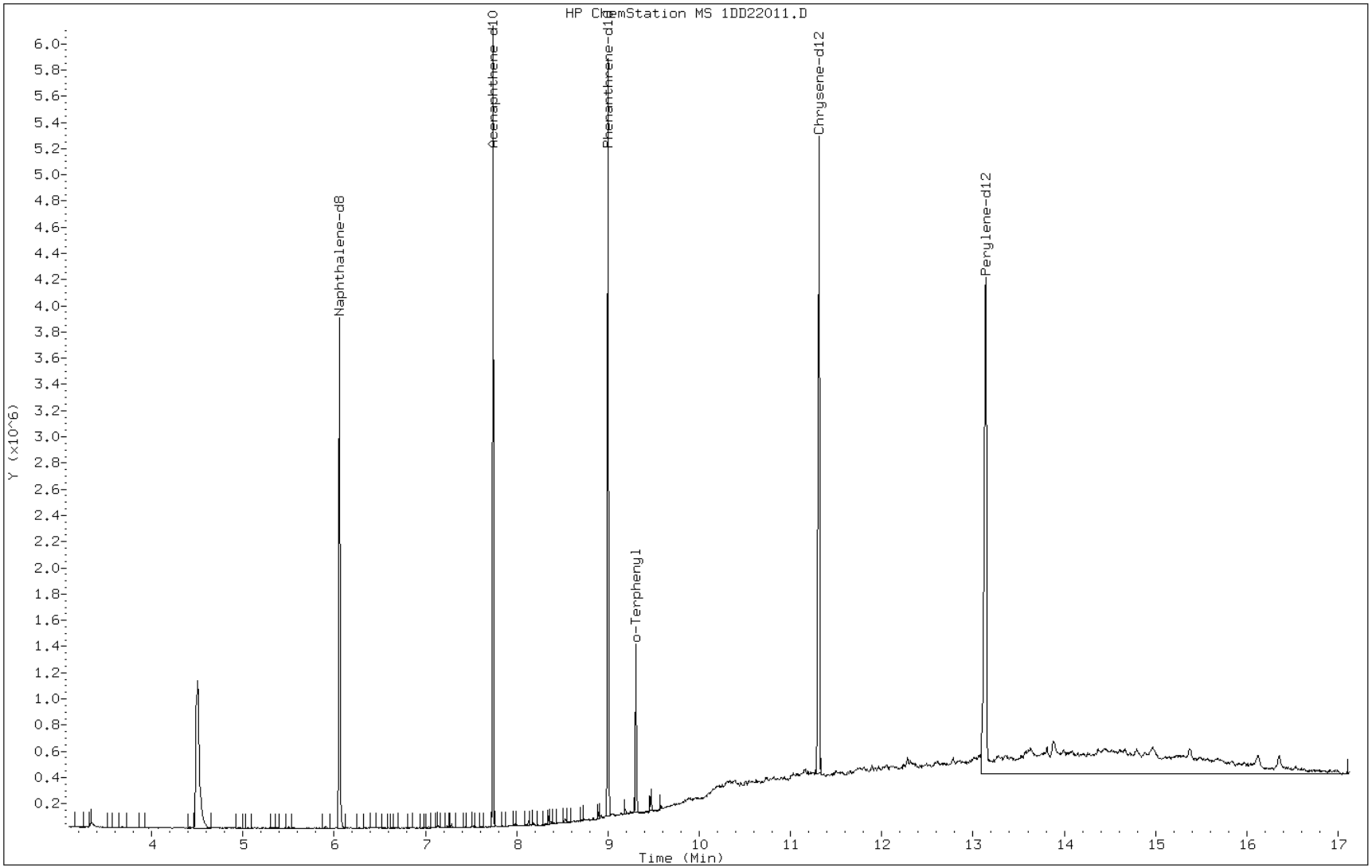
Q - Qualifier signal failed the ratio test.

Data File: 1DD22011.D

Date: 22-APR-2013 13:46

Client ID: CV0405B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-14-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0993A-CS | Lab Sample ID: 680-89328-15

Matrix: Solid | Lab File ID: 1DD22012.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:30

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.13(g) | Date Analyzed: 04/22/2013 14:08

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

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

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

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	11	J	47	5.8
120-12-7	Anthracene	32		9.8	4.9
56-55-3	Benzo[a]anthracene	140		9.3	4.5
50-32-8	Benzo[a]pyrene	120		12	6.1
205-99-2	Benzo[b]fluoranthene	230		14	7.1
191-24-2	Benzo[g,h,i]perylene	84		23	5.1
207-08-9	Benzo[k]fluoranthene	71		9.3	4.2
218-01-9	Chrysene	170		10	5.2
53-70-3	Dibenz(a,h)anthracene	29		23	4.8
206-44-0	Fluoranthene	260		23	4.7
86-73-7	Fluorene	8.7	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	78		23	8.3
90-12-0	1-Methylnaphthalene	45	J	47	5.1
91-57-6	2-Methylnaphthalene	62		47	8.3
91-20-3	Naphthalene	61		47	5.1
85-01-8	Phenanthrene	150		9.3	4.5
129-00-0	Pyrene	180		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22012.D
Lab Smp Id: 680-89328-A-15-A Client Smp ID: CV0993A-CS
Inj Date : 22-APR-2013 14:08
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-15-A
Misc Info : 680-89328-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	15.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.060	6.054	(1.000)	1937950	40.0000	
* 6 Acenaphthene-d10	164	7.740	7.734	(1.000)	1145541	40.0000	
* 9 Phenanthrene-d10	188	9.003	8.998	(1.000)	1877931	40.0000	
$ 13 o-Terphenyl	230	9.309	9.309	(1.034)	146268	5.16931	400
* 17 Chrysene-d12	240	11.312	11.307	(1.000)	2082461	40.0000	
* 22 Perylene-d12	264	13.145	13.122	(1.000)	2358121	40.0000	
2 Naphthalene	128	6.077	6.077	(1.003)	37738	0.78345	61
3 2-Methylnaphthalene	142	6.788	6.783	(1.120)	24632	0.79217	62
4 1-Methylnaphthalene	142	6.876	6.877	(1.135)	17049	0.58061	45
5 Acenaphthylene	152	7.611	7.611	(0.983)	7005	0.14448	11
8 Fluorene	166	8.210	8.204	(1.061)	3977	0.11222	8.7
10 Phenanthrene	178	9.015	9.015	(1.001)	100492	1.94274	150
11 Anthracene	178	9.056	9.056	(1.006)	21454	0.41788	32
12 Carbazole	167	9.203	9.197	(1.022)	12043	0.26593	21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.002	10.002	(1.111)	178754	3.35817	260
15 Pyrene	202	10.190	10.184	(0.901)	145884	2.33279	180
16 Benzo(a)anthracene	228	11.300	11.289	(0.999)	111241	1.84761	140
18 Chrysene	228	11.336	11.330	(1.002)	121074	2.14466	170
19 Benzo(b)fluoranthene	252	12.593	12.582	(0.958)	172669	2.93124	230
20 Benzo(k)fluoranthene	252	12.622	12.623	(0.960)	56479	0.91010	71(H)
21 Benzo(a)pyrene	252	13.040	13.034	(0.992)	93428	1.57852	120
23 Indeno(1,2,3-cd)pyrene	276	14.714	14.709	(1.119)	63059	0.99917	78(M)
24 Dibenzo(a,h)anthracene	278	14.743	14.732	(1.122)	22172	0.37307	29
25 Benzo(g,h,i)perylene	276	15.155	15.143	(1.153)	65421	1.07658	84(M)

QC Flag Legend

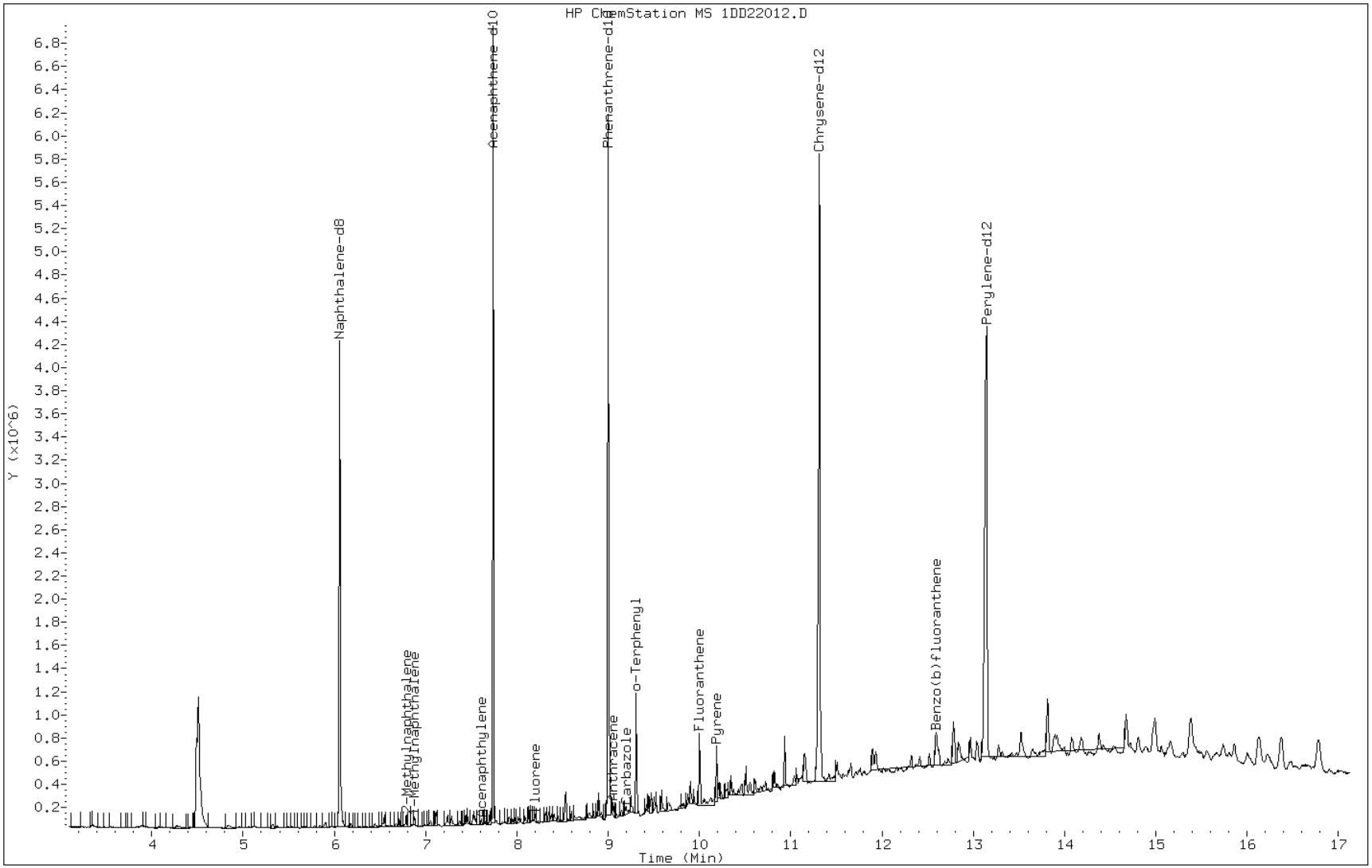
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC



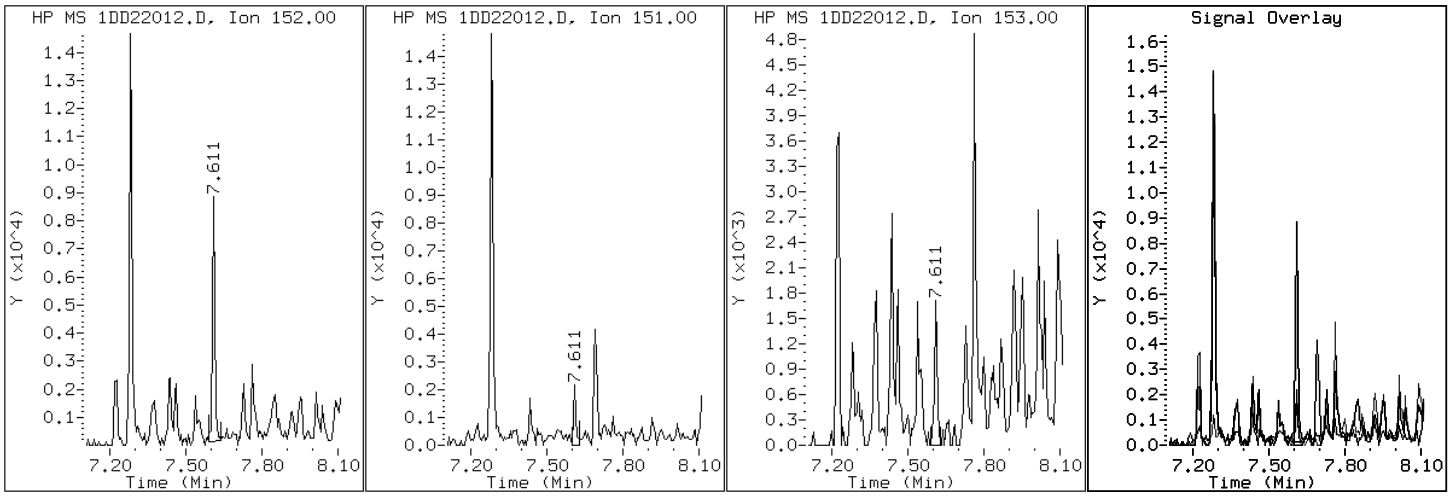
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

5 Acenaphthylene



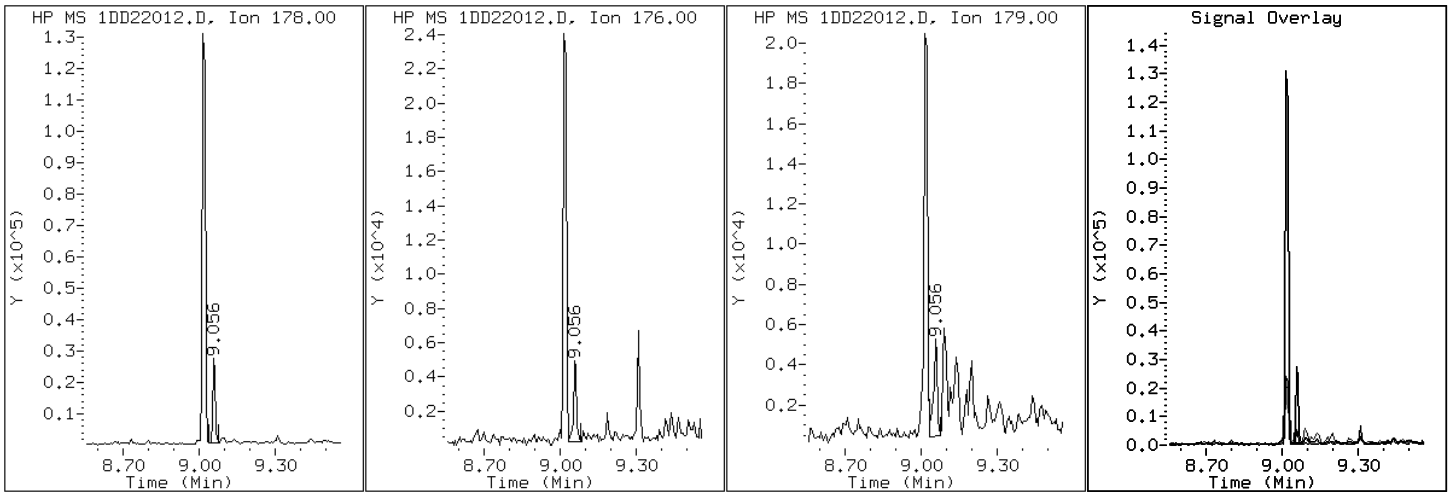
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

11 Anthracene



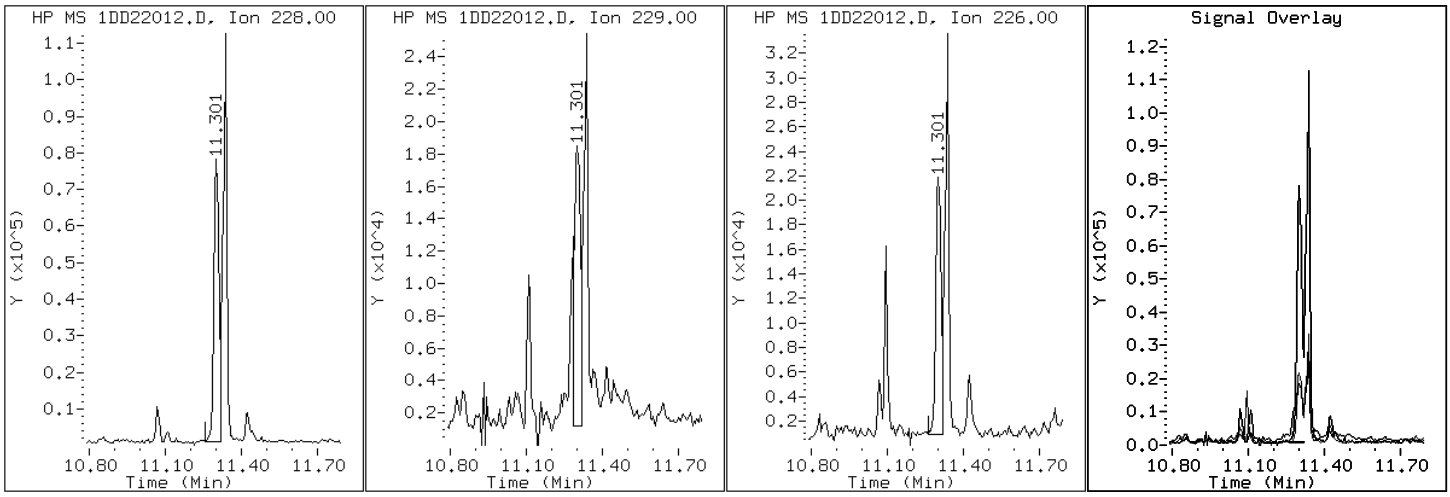
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

16 Benzo(a)anthracene



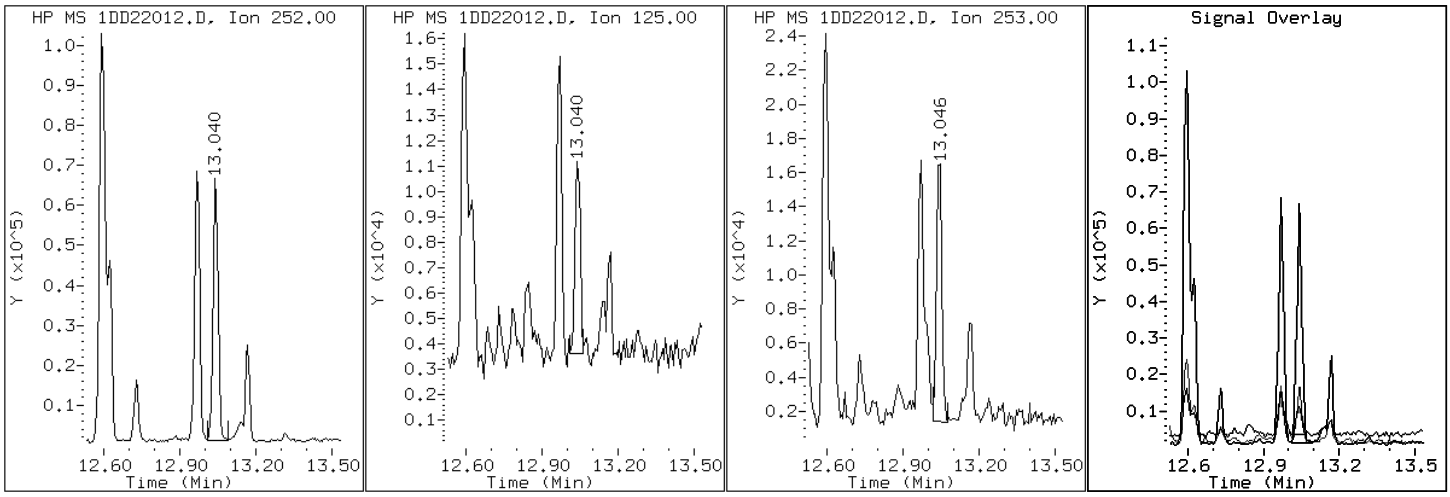
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

21 Benzo(a)pyrene



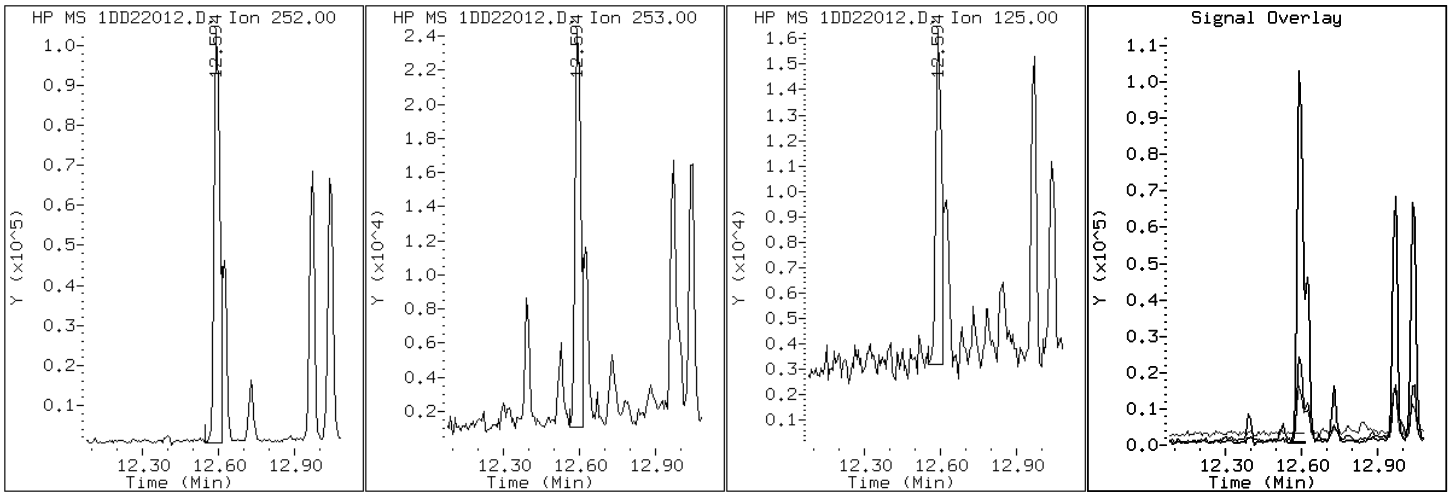
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

19 Benzo(b)fluoranthene



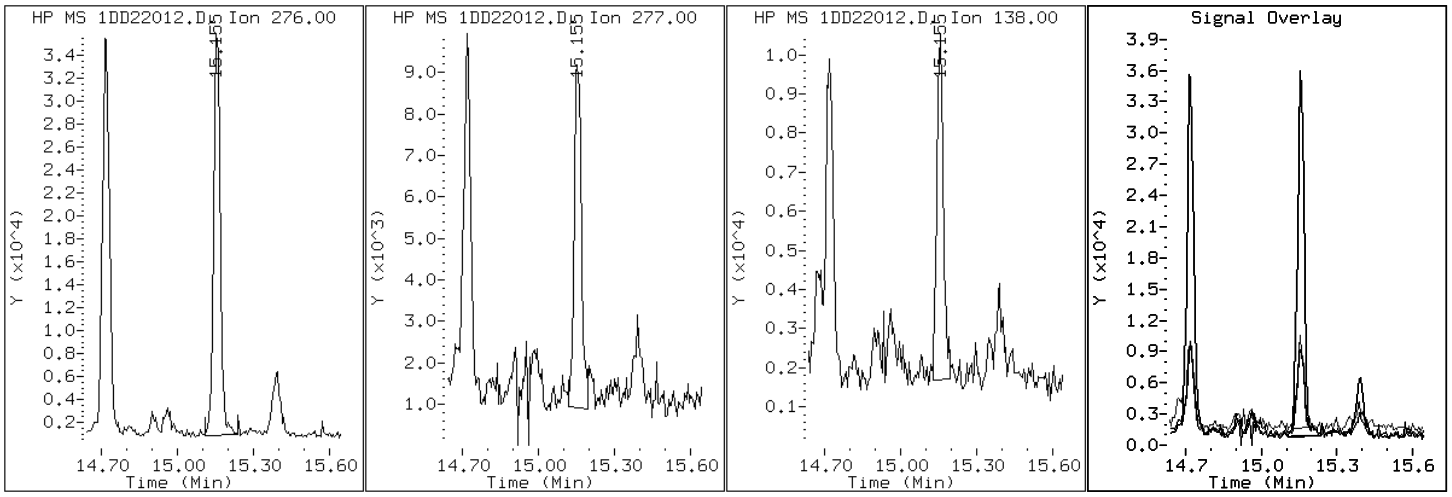
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

25 Benzo(g,h,i)perylene



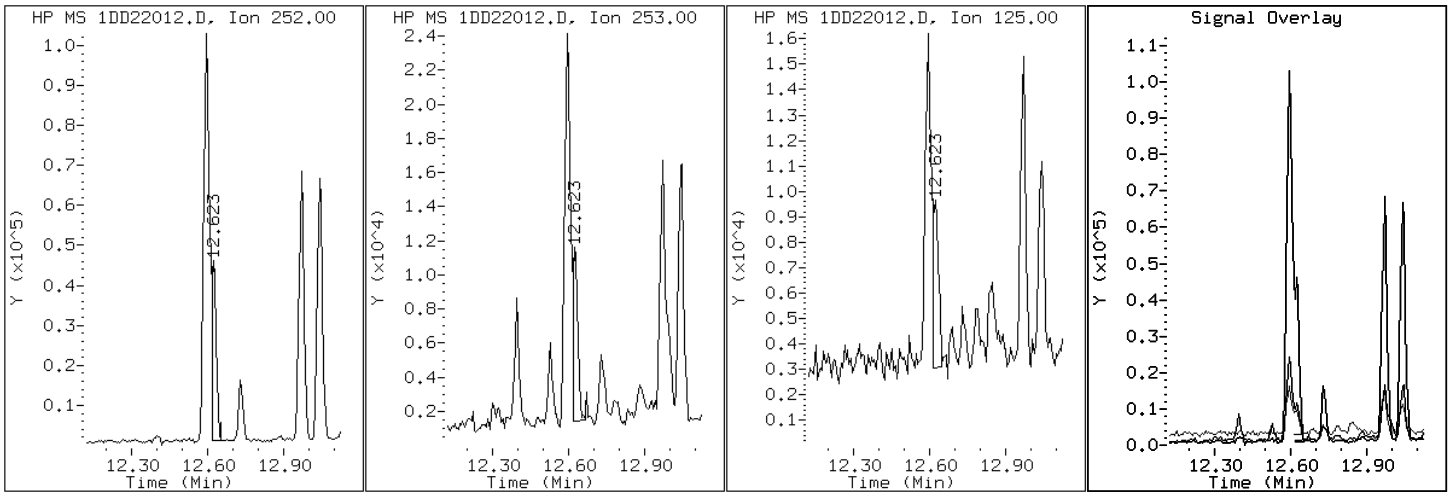
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

20 Benzo(k)fluoranthene



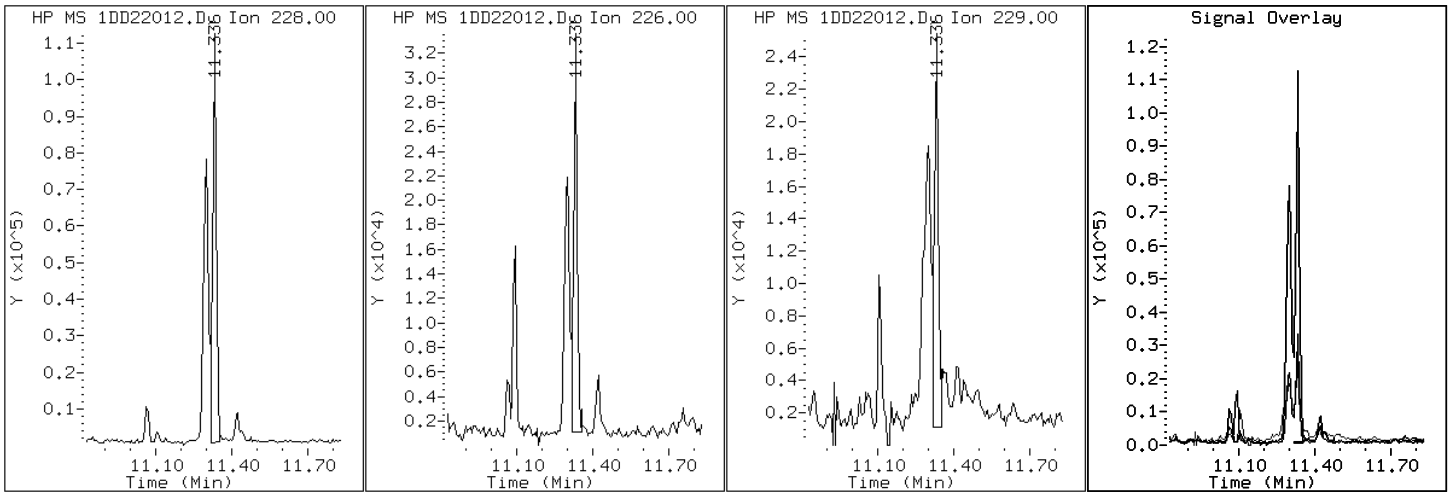
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

18 Chrysene



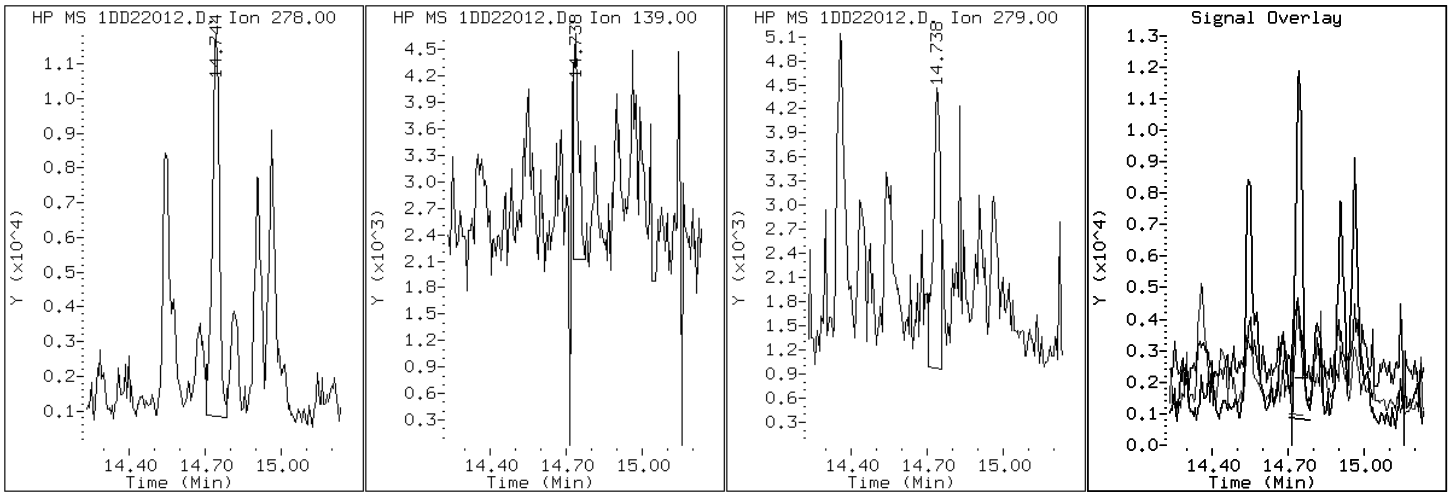
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

24 Dibenzo(a,h)anthracene



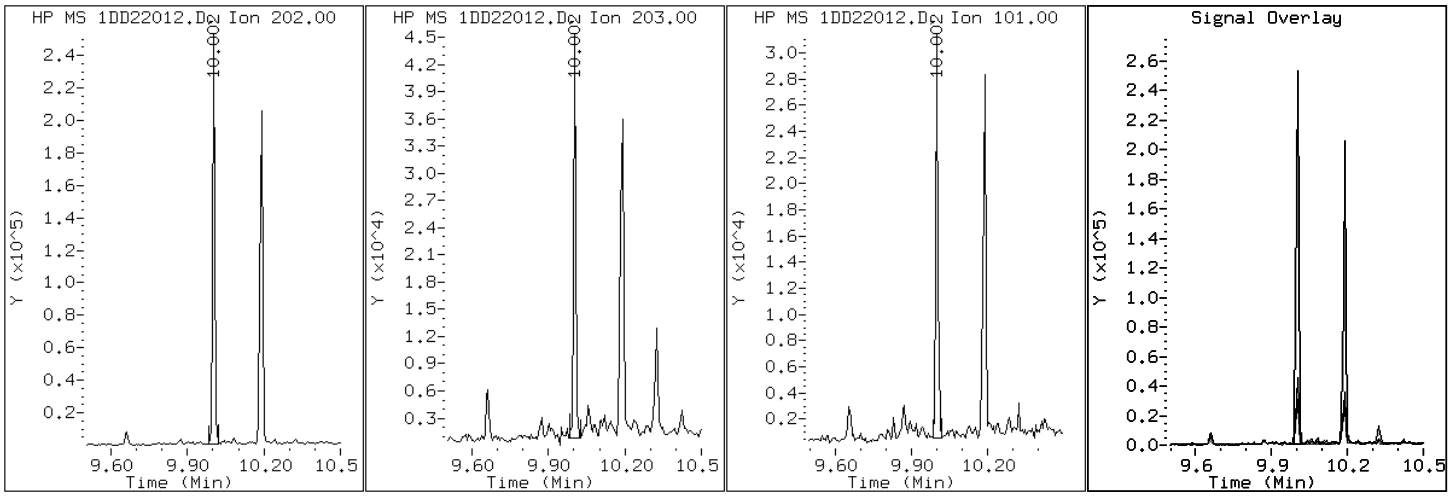
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

14 Fluoranthene



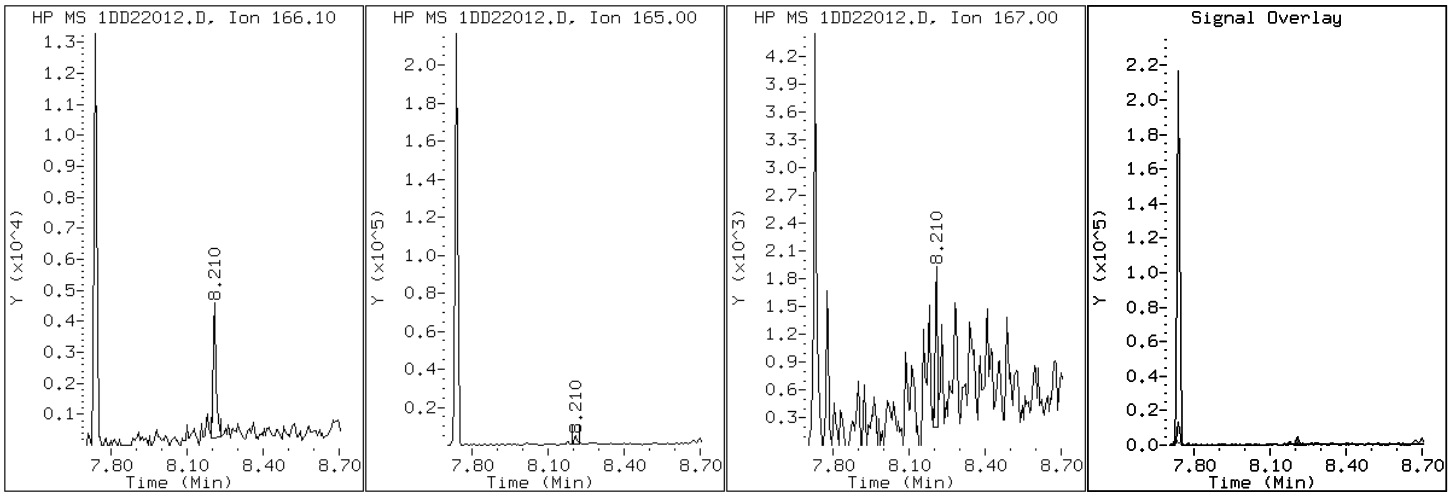
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

8 Fluorene



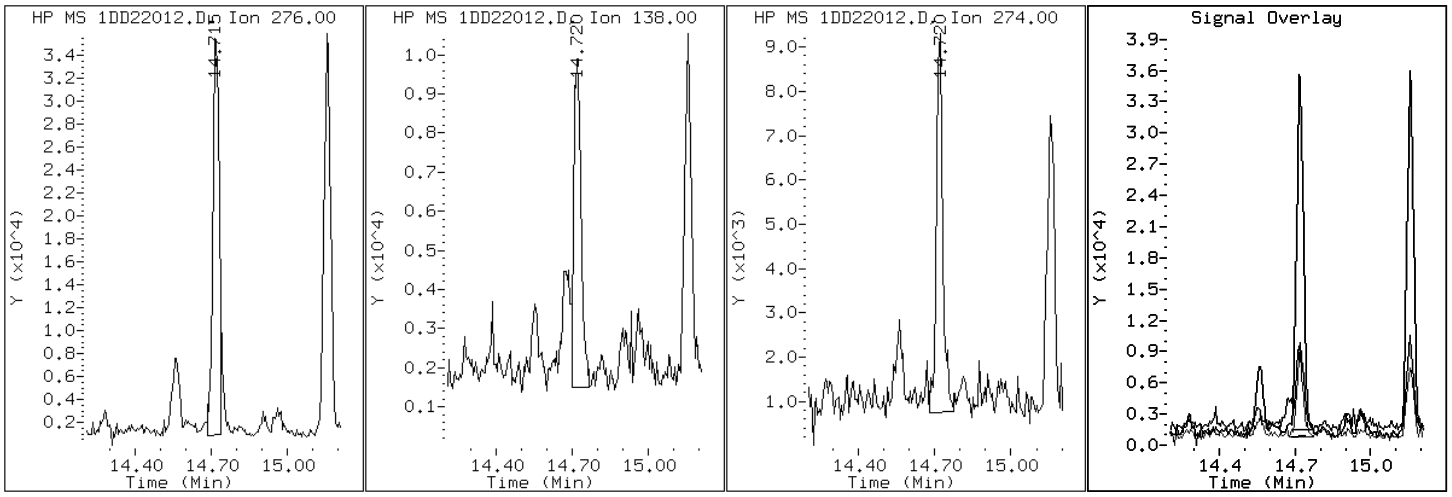
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

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



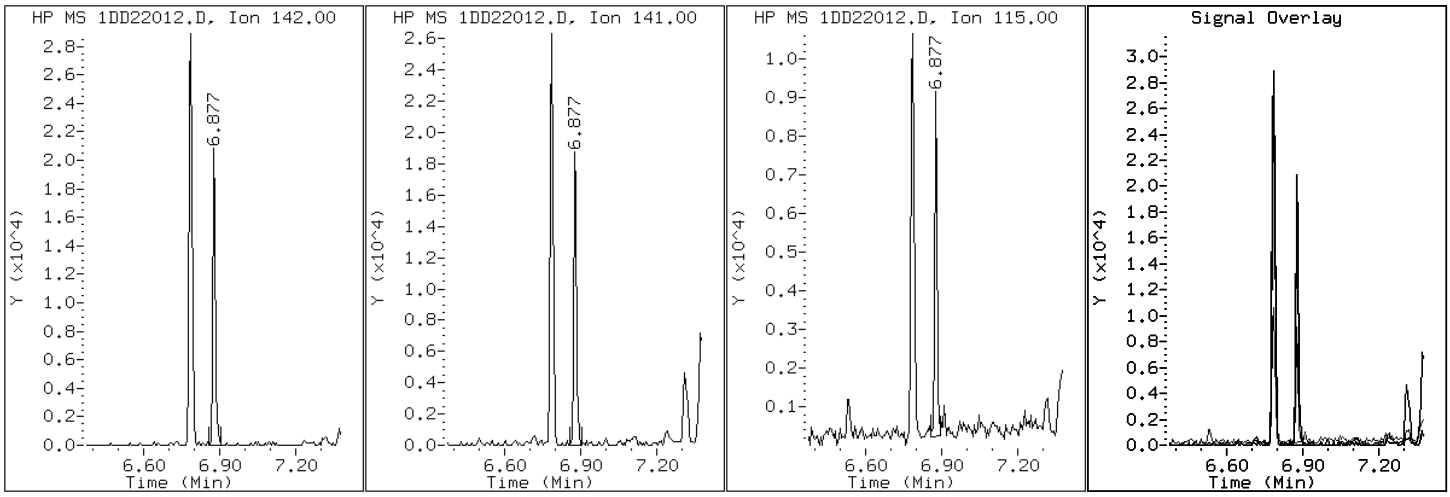
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

4 1-Methylnaphthalene



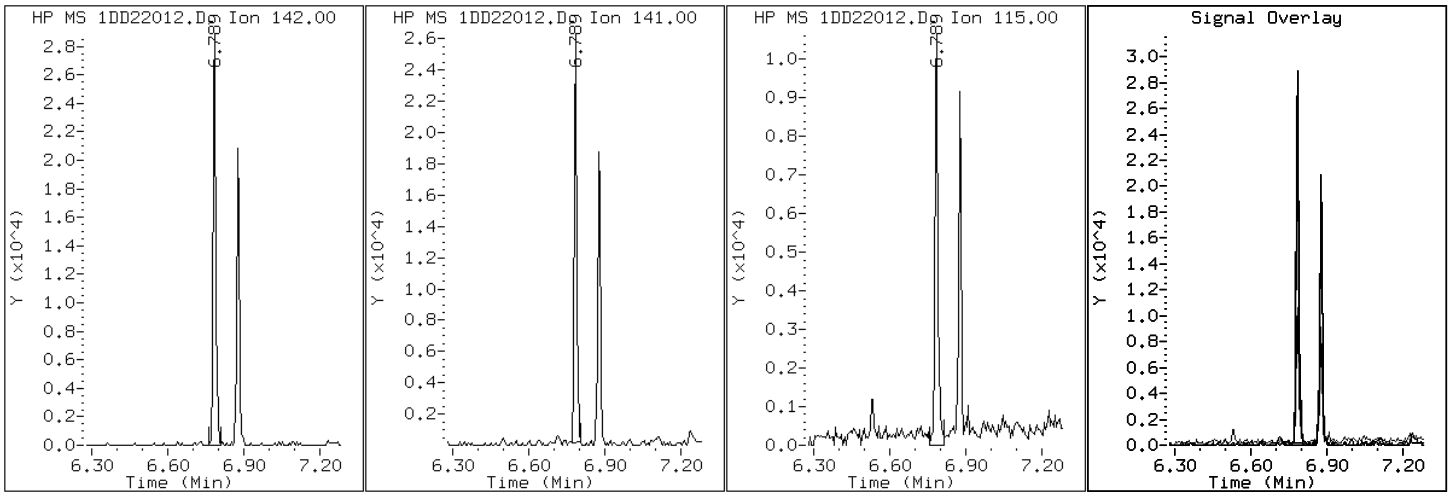
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

3 2-Methylnaphthalene



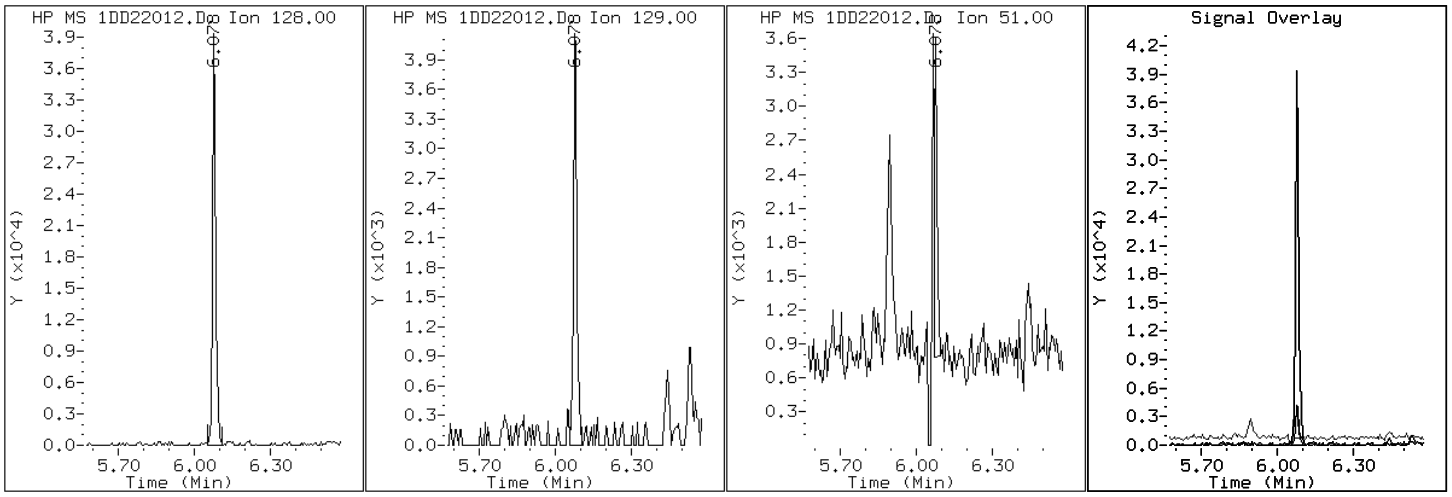
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

2 Naphthalene



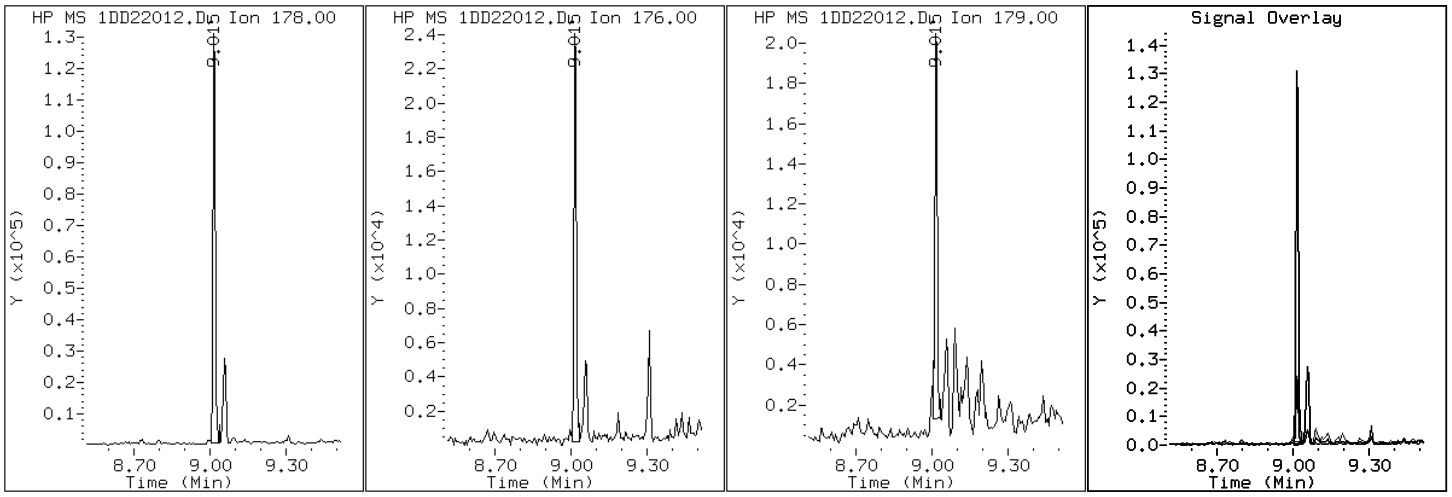
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

10 Phenanthrene



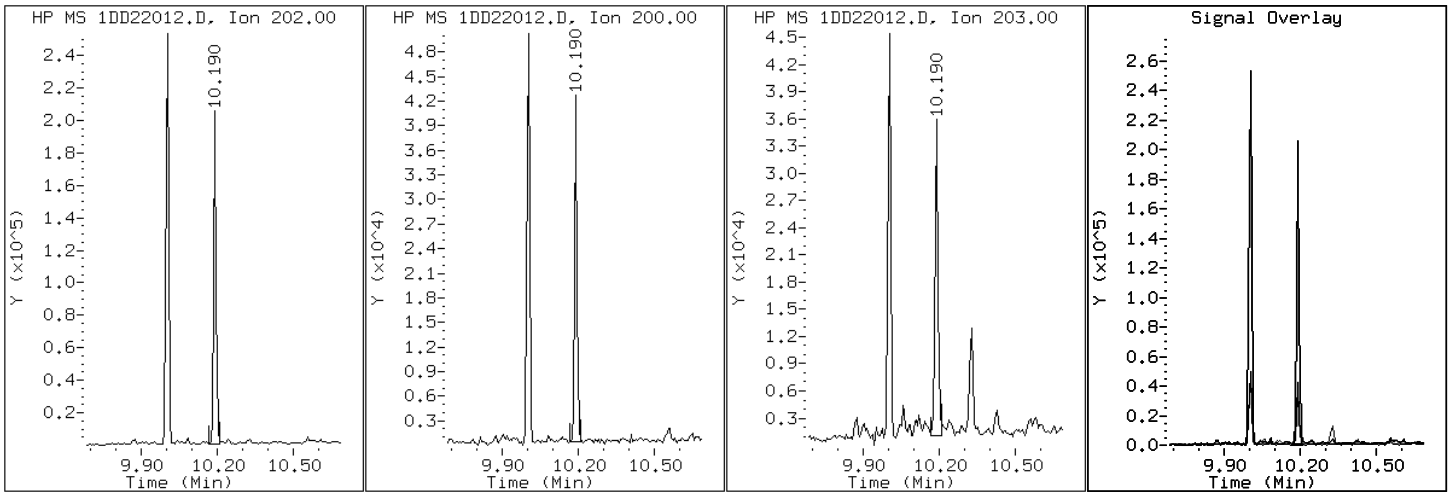
Data File: 1DD22012.D

Date: 22-APR-2013 14:08

Client ID: CV0993A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-15-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22012.D
Inj. Date and Time: 22-APR-2013 14:08
Instrument ID: BSMSD.i
Client ID: CV0993A-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/23/2013

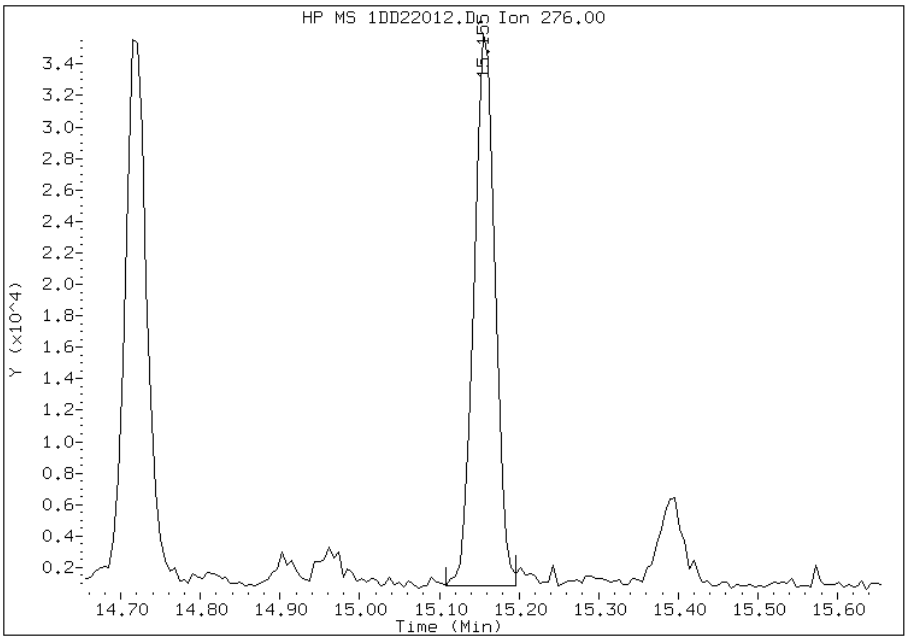
Processing Integration Results

RT: 15.16

Response: 64475

Amount: 1

Conc: 83



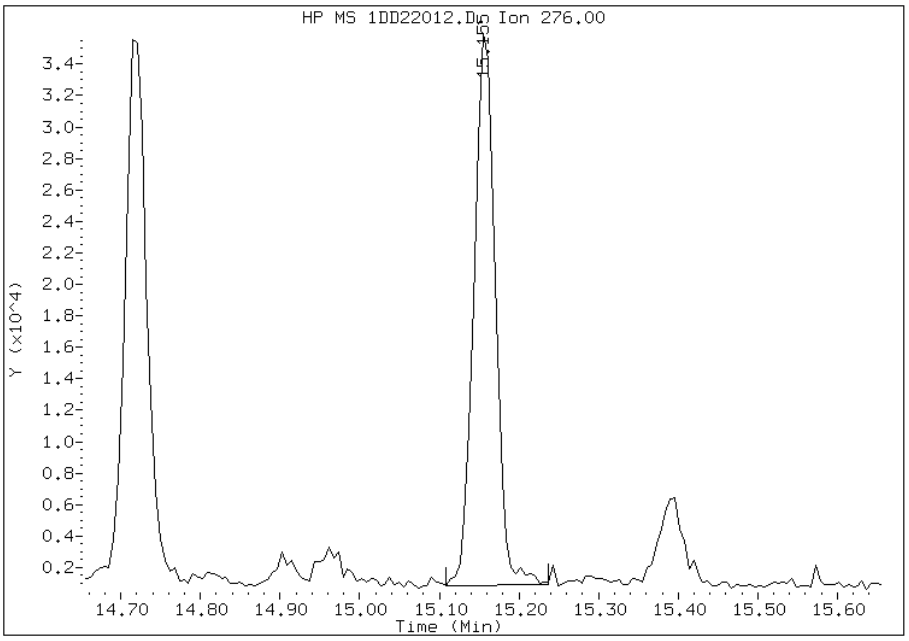
Manual Integration Results

RT: 15.16

Response: 65421

Amount: 1

Conc: 84



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD22012.D
Inj. Date and Time: 22-APR-2013 14:08
Instrument ID: BSMSD.i
Client ID: CV0993A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

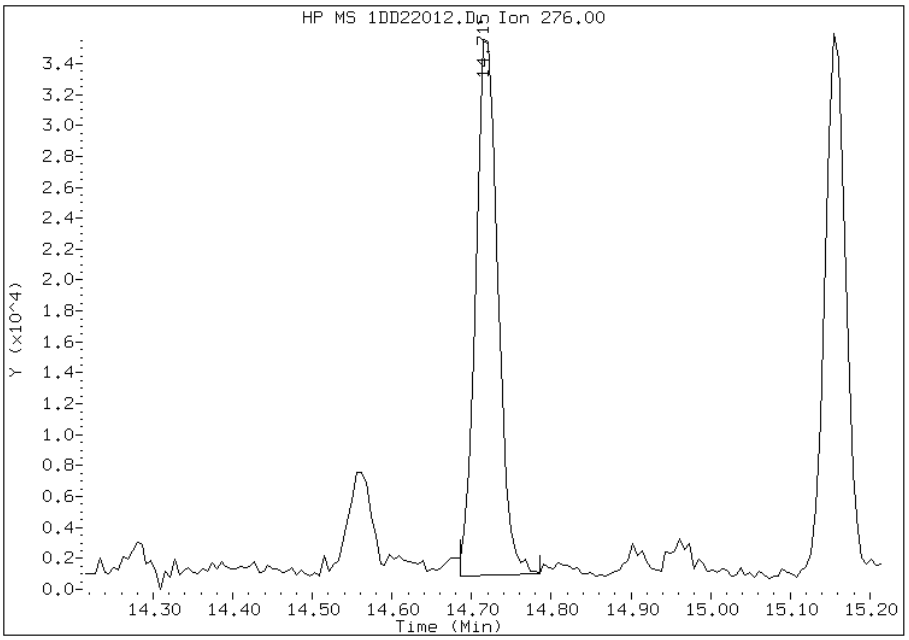
Processing Integration Results

RT: 14.71

Response: 67467

Amount: 1

Conc: 83



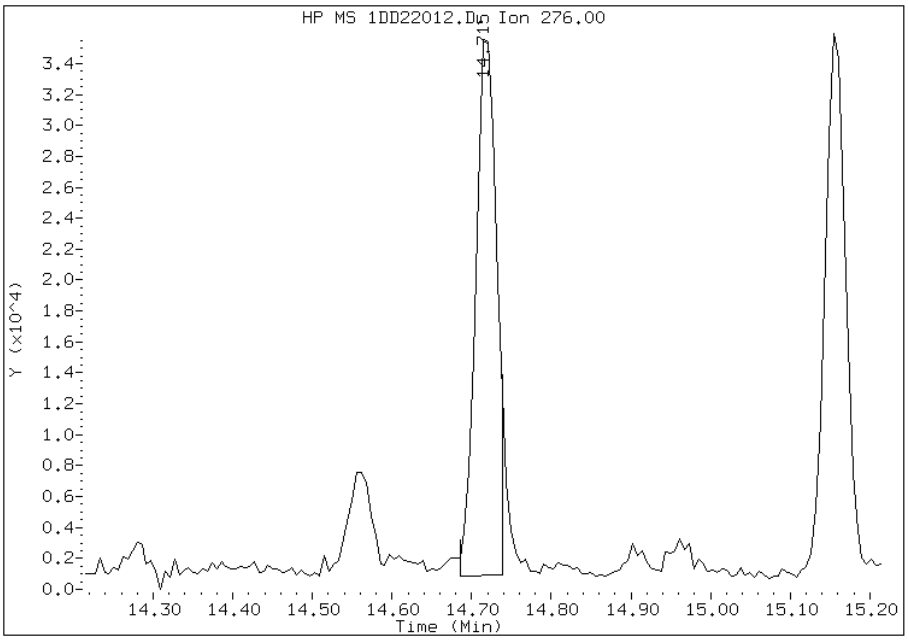
Manual Integration Results

RT: 14.71

Response: 63059

Amount: 1

Conc: 78



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0993B-CS | Lab Sample ID: 680-89328-16

Matrix: Solid | Lab File ID: 1DD22013.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:40

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 14.93(g) | Date Analyzed: 04/22/2013 14:31

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

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

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

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	630		120	24
208-96-8	Acenaphthylene	51		47	5.9
120-12-7	Anthracene	1300		9.9	5.0
56-55-3	Benzo[a]anthracene	3200		9.5	4.6
50-32-8	Benzo[a]pyrene	3000		12	6.1
191-24-2	Benzo[g,h,i]perylene	1400		24	5.2
207-08-9	Benzo[k]fluoranthene	1400		9.5	4.3
218-01-9	Chrysene	3100		11	5.3
53-70-3	Dibenz(a,h)anthracene	450		24	4.8
86-73-7	Fluorene	510		24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	1400		24	8.4
90-12-0	1-Methylnaphthalene	130		47	5.2
91-57-6	2-Methylnaphthalene	170		47	8.4
91-20-3	Naphthalene	310		47	5.2

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22013.D
Lab Smp Id: 680-89328-A-16-A Client Smp ID: CV0993B-CS
Inj Date : 22-APR-2013 14:31
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-16-A
Misc Info : 680-89328-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	15.046	% 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	6.060	6.054	(1.000)	2024258	40.0000	
* 6	Acenaphthene-d10	164	7.741	7.734	(1.000)	1178284	40.0000	
* 9	Phenanthrene-d10	188	9.004	8.998	(1.000)	1938743	40.0000	
$ 13	o-Terphenyl	230	9.310	9.309	(1.034)	174430	5.97123	470
* 17	Chrysene-d12	240	11.331	11.307	(1.000)	2400646	40.0000	
* 22	Perylene-d12	264	13.164	13.122	(1.000)	2456919	40.0000	
2	Naphthalene	128	6.078	6.077	(1.003)	194829	3.87226	300
3	2-Methylnaphthalene	142	6.789	6.783	(1.120)	71117	2.18961	170
4	1-Methylnaphthalene	142	6.877	6.877	(1.135)	52474	1.71083	130
5	Acenaphthylene	152	7.612	7.611	(0.983)	32222	0.64612	51
7	Acenaphthene	154	7.764	7.764	(1.003)	245252	7.96709	630
8	Fluorene	166	8.211	8.204	(1.061)	234367	6.42921	510
10	Phenanthrene	178	9.028	9.015	(1.003)	4087078	76.5341	6000(A)
11	Anthracene	178	9.063	9.056	(1.007)	896055	16.9057	1300

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.204	9.197	(1.022)	584129	12.4942	980
14 Fluoranthene	202	10.020	10.002	(1.113)	6330418	115.196	9100(A)
15 Pyrene	202	10.208	10.184	(0.901)	5092359	70.6377	5600(A)
16 Benzo(a)anthracene	228	11.319	11.289	(0.999)	2786570	40.1480	3200
18 Chrysene	228	11.354	11.330	(1.002)	2573370	39.5419	3100
19 Benzo(b)fluoranthene	252	12.635	12.582	(0.960)	3952065	64.3927	5100(A)
20 Benzo(k)fluoranthene	252	12.659	12.623	(0.962)	1178152	18.2212	1400
21 Benzo(a)pyrene	252	13.082	13.034	(0.994)	2311491	37.4834	3000
23 Indeno(1,2,3-cd)pyrene	276	14.768	14.709	(1.122)	1207916	18.3699	1400(M)
24 Dibenzo(a,h)anthracene	278	14.780	14.732	(1.123)	349855	5.65004	440
25 Benzo(g,h,i)perylene	276	15.209	15.143	(1.155)	1141898	18.0357	1400

QC Flag Legend

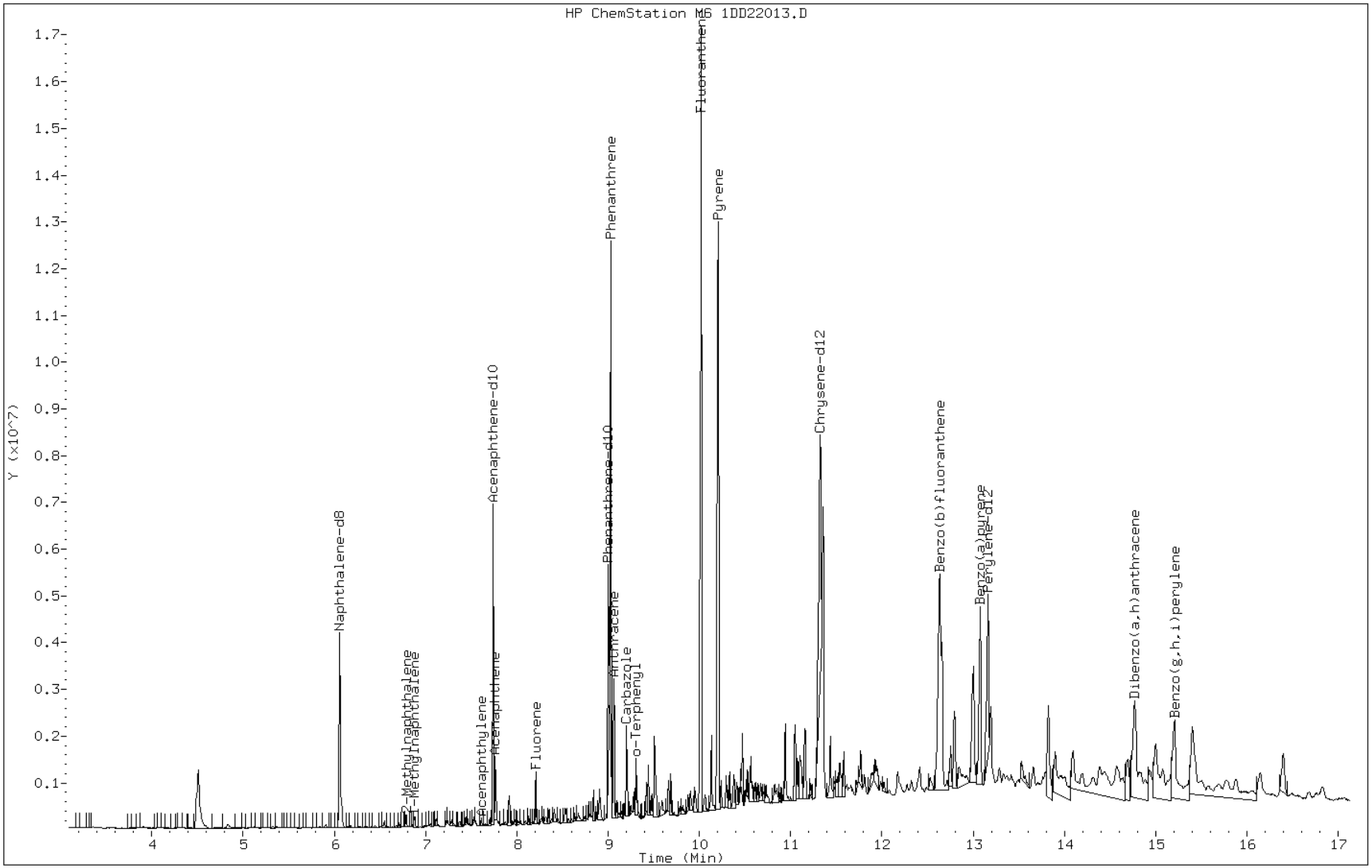
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC



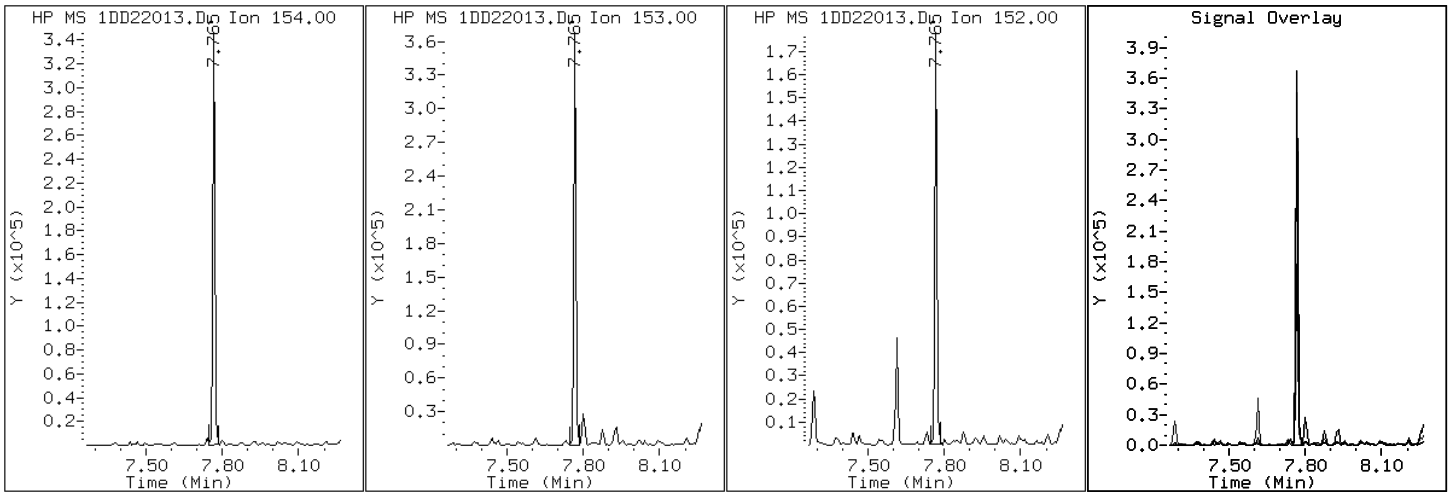
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

7 Acenaphthene



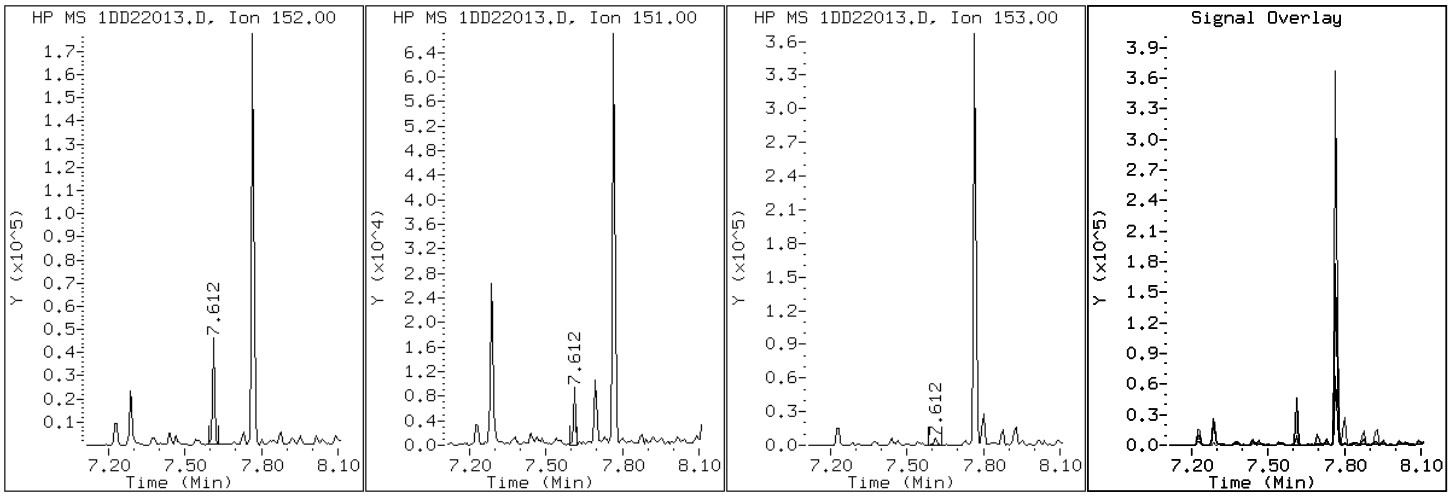
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

5 Acenaphthylene



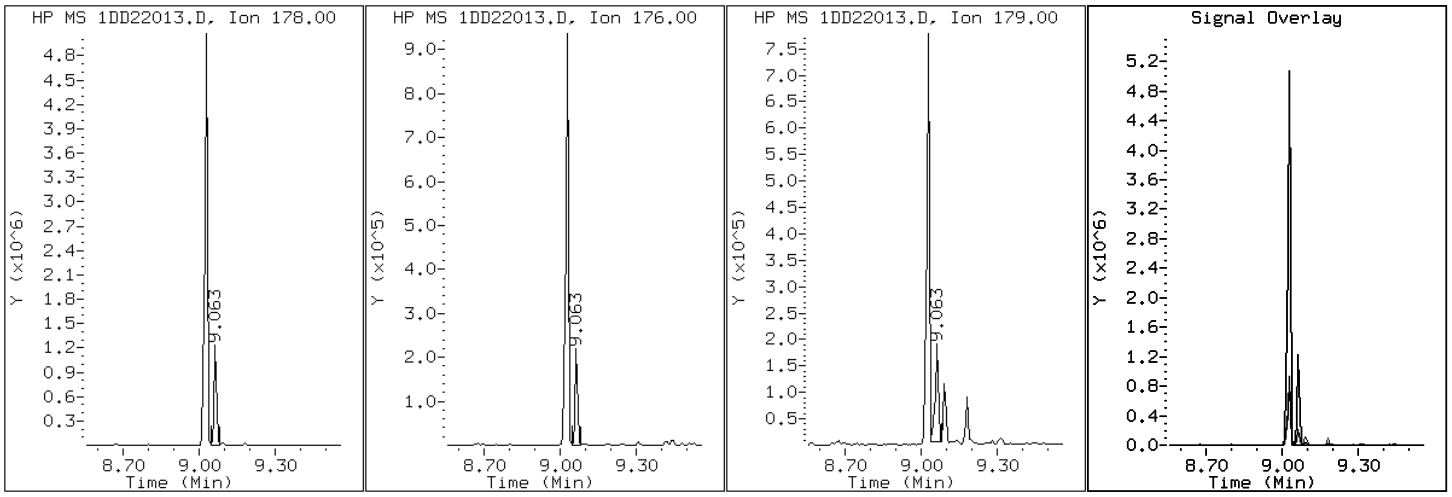
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

11 Anthracene



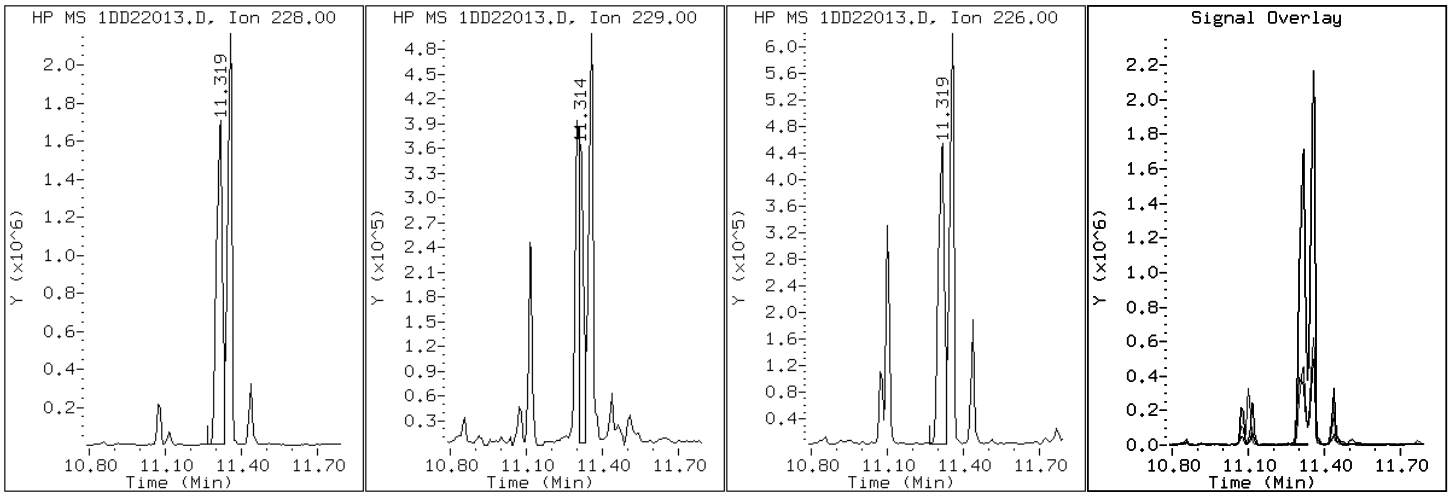
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

16 Benzo(a)anthracene



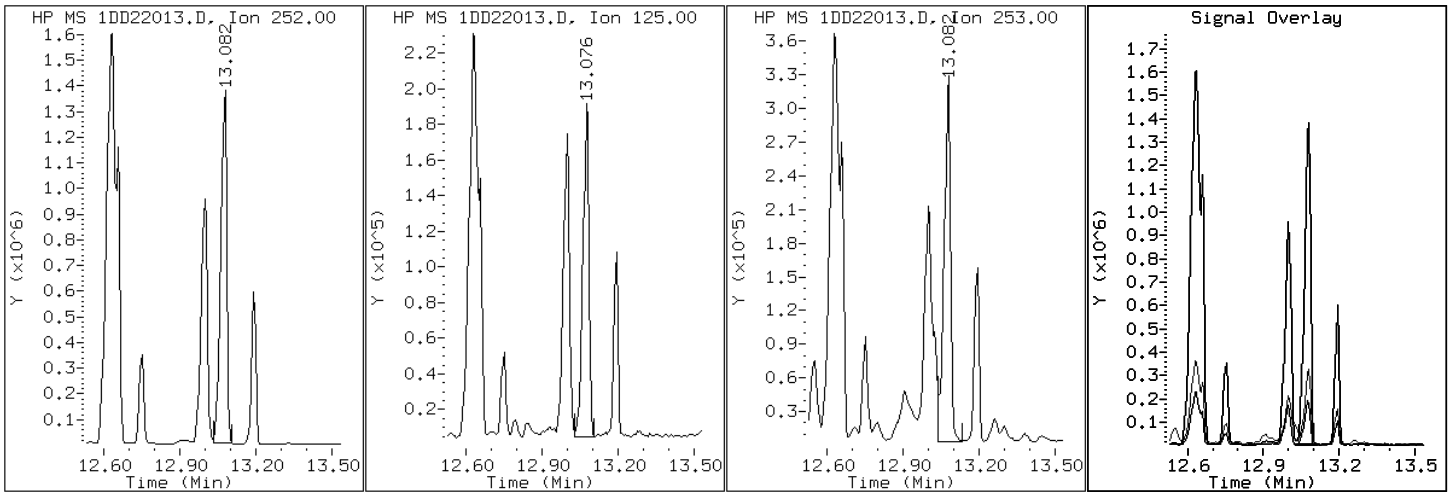
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

21 Benzo(a)pyrene



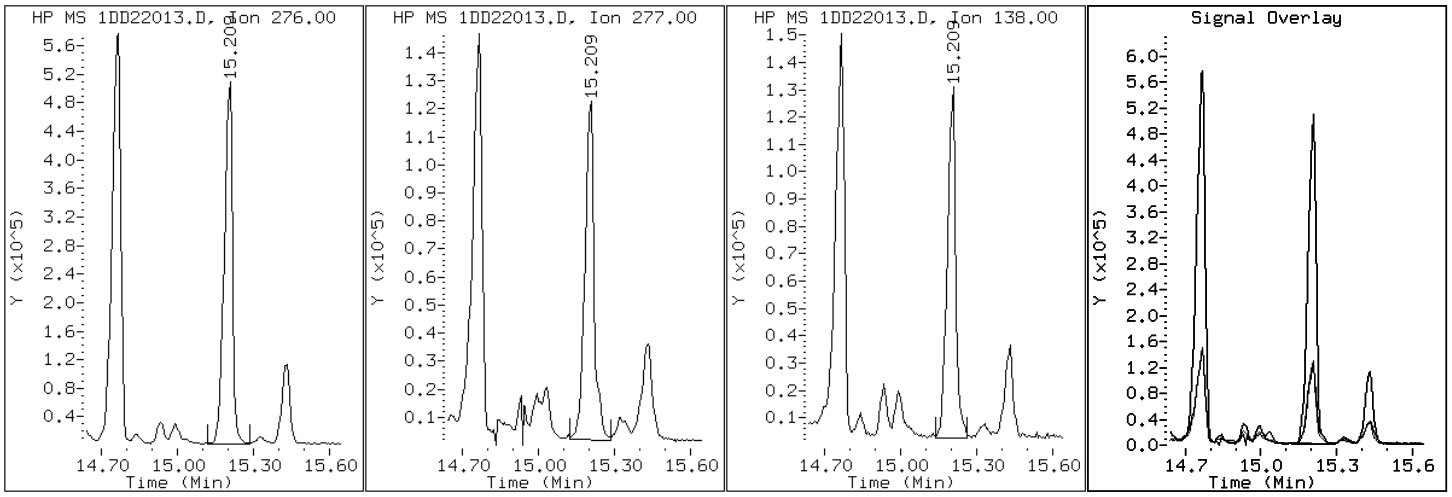
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

25 Benzo(g,h,i)perylene



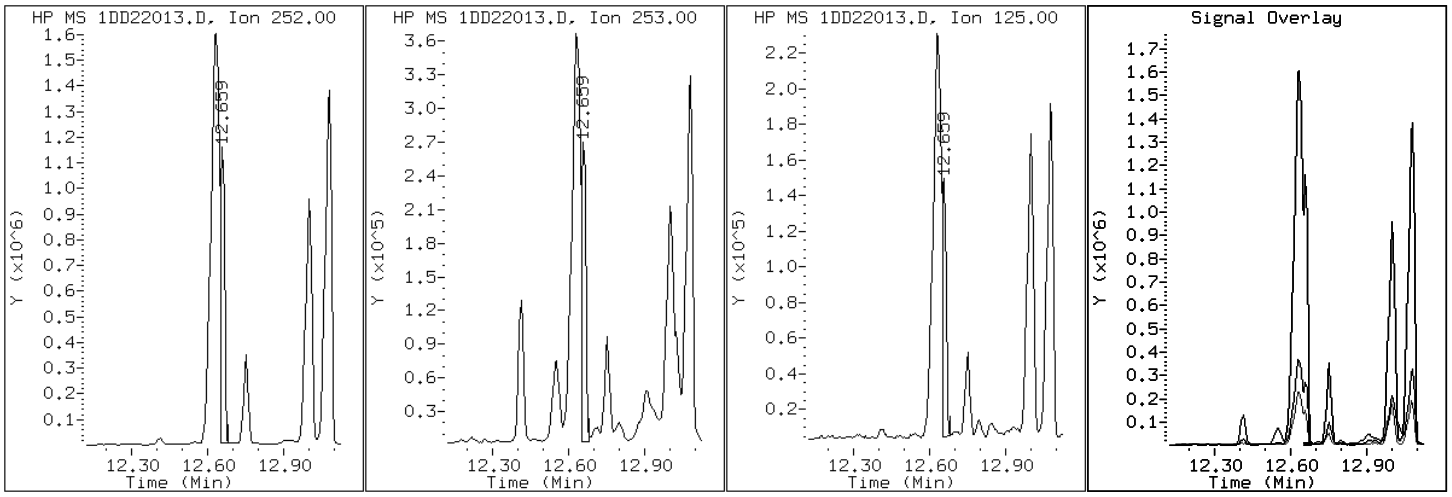
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

20 Benzo(k)fluoranthene



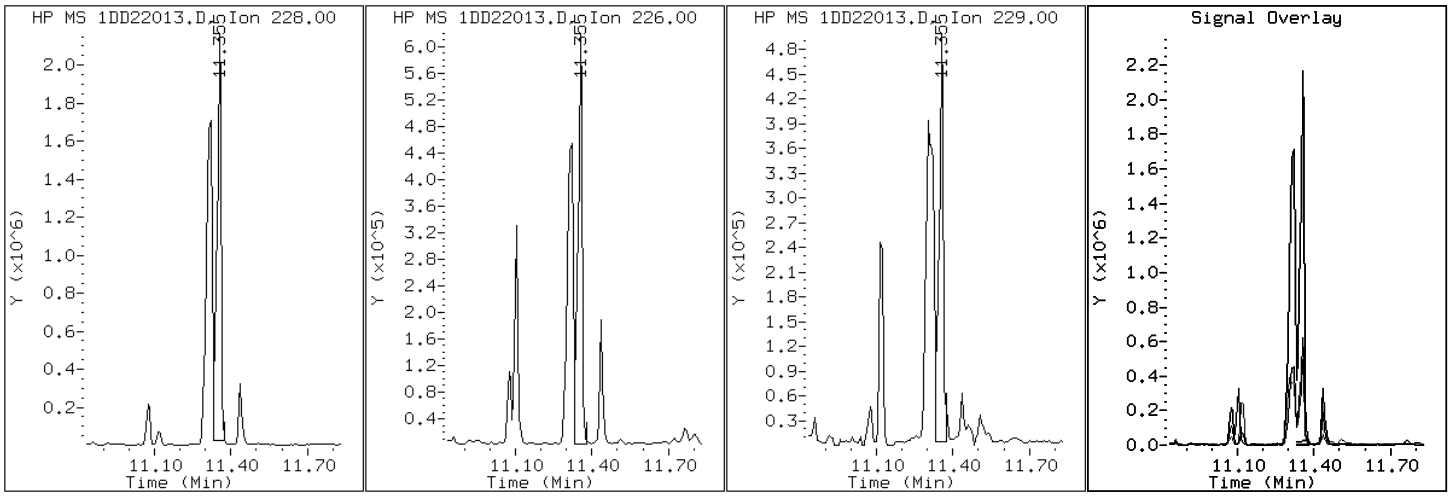
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

18 Chrysene



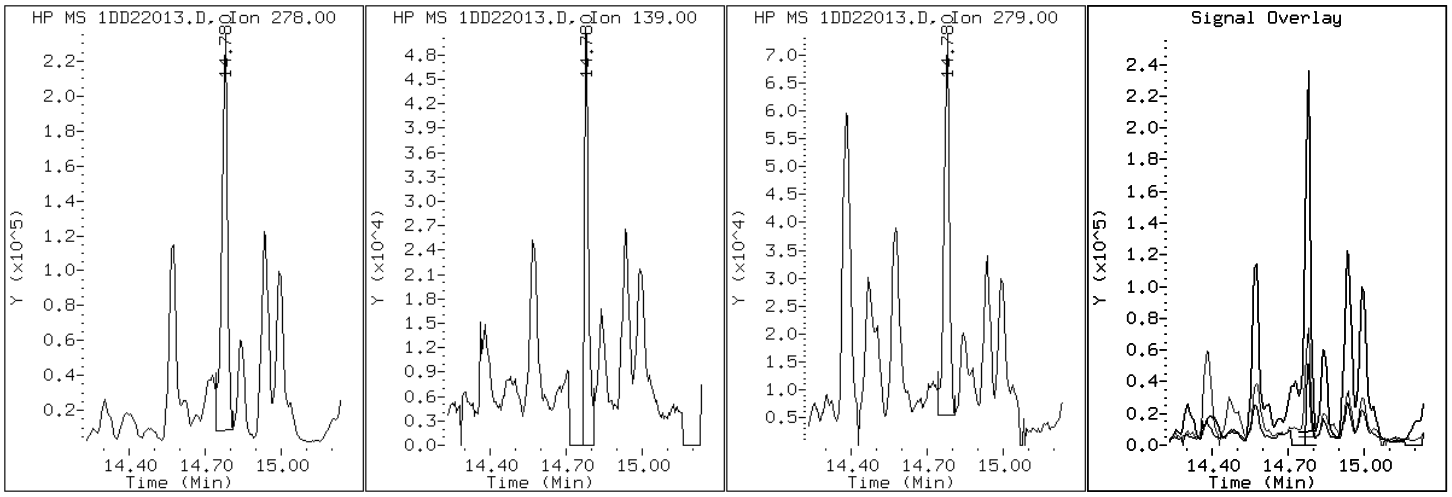
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

24 Dibenzo(a,h)anthracene



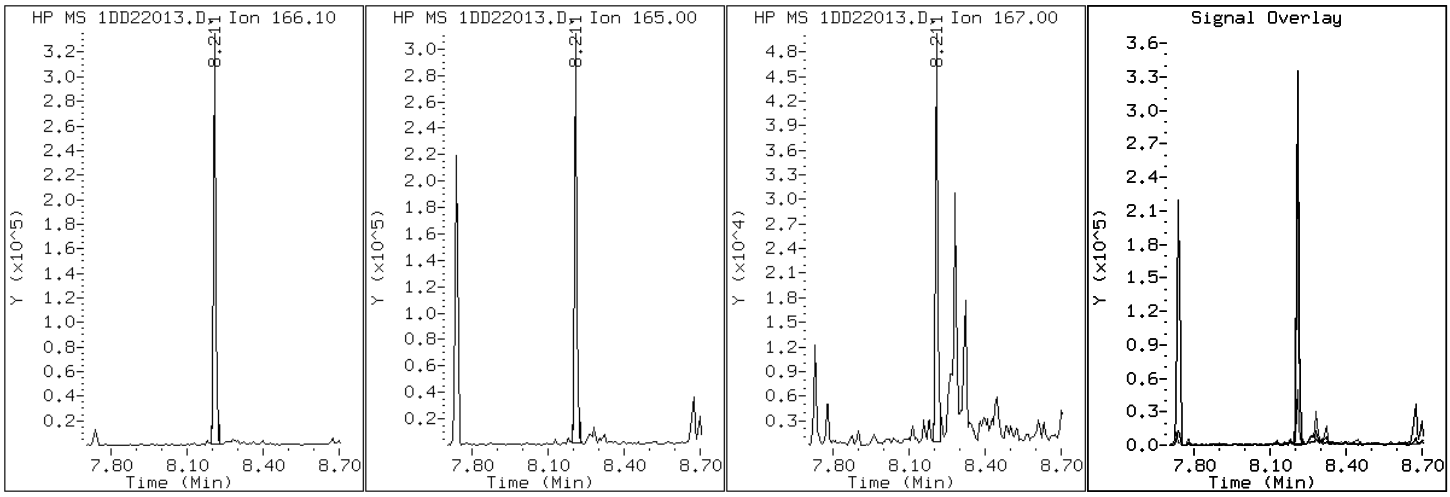
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

8 Fluorene



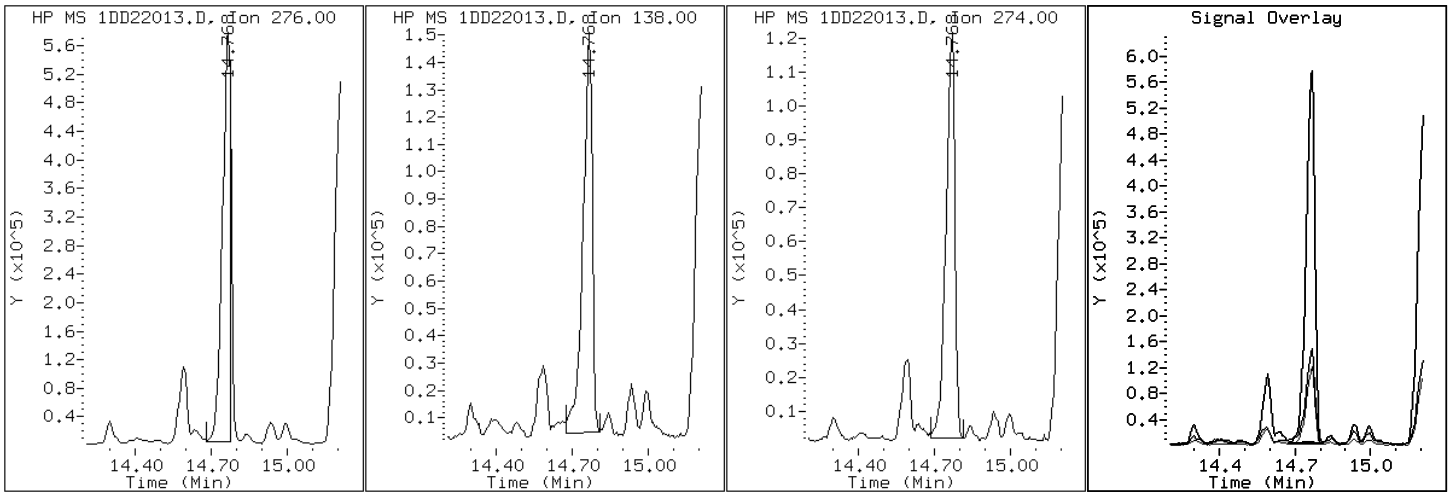
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

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



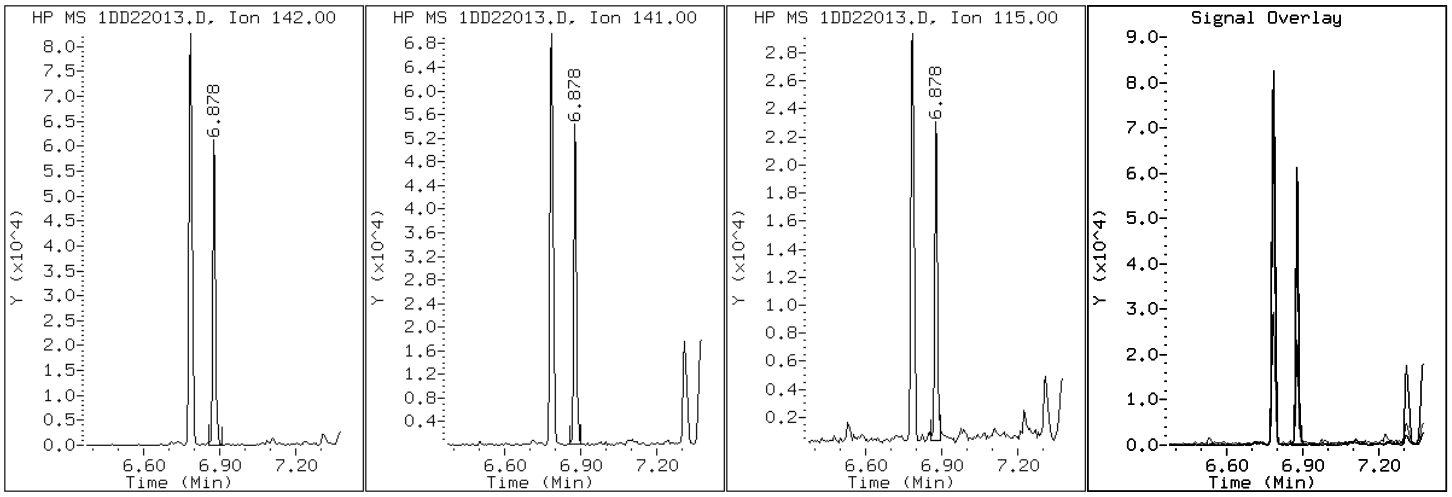
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

4 1-Methylnaphthalene



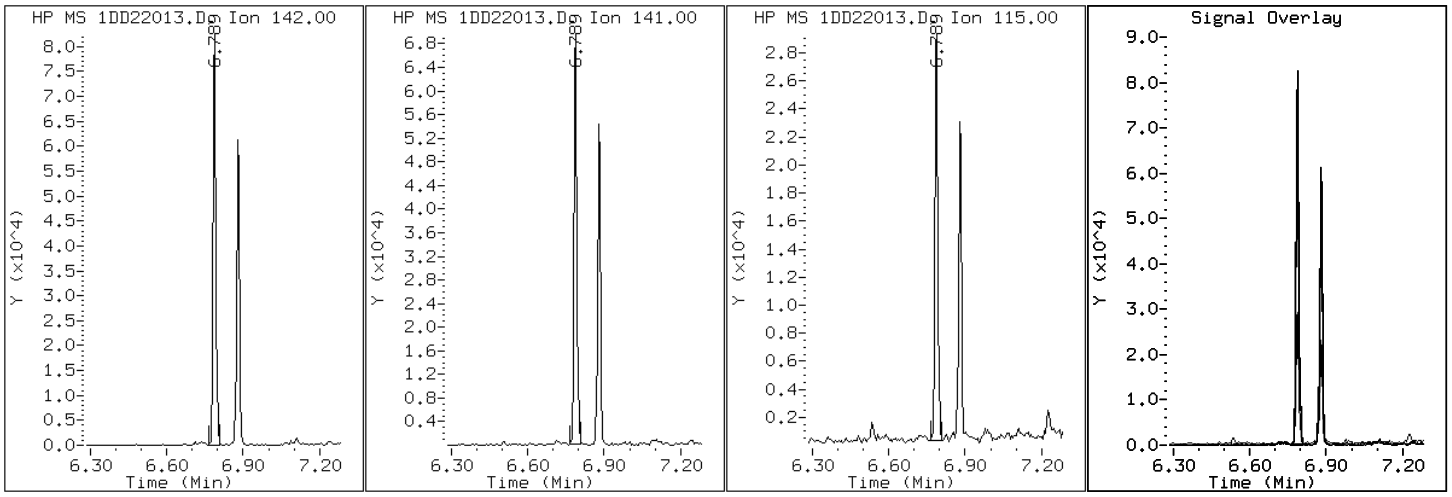
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

3 2-Methylnaphthalene



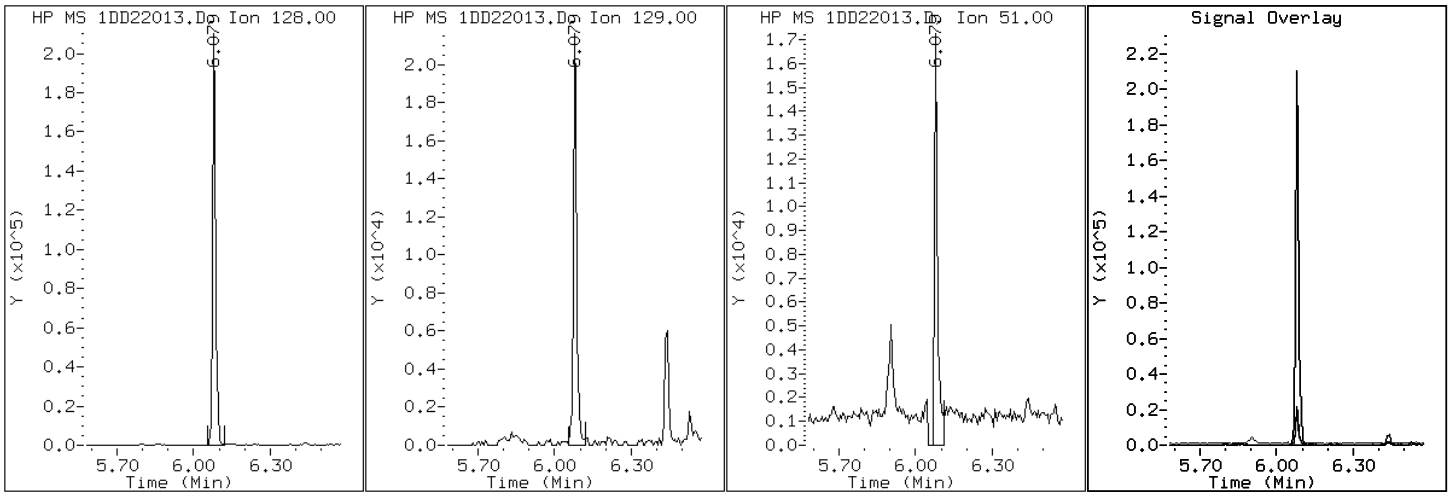
Data File: 1DD22013.D

Date: 22-APR-2013 14:31

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

2 Naphthalene



Manual Integration Report

Data File: 1DD22013.D
Inj. Date and Time: 22-APR-2013 14:31
Instrument ID: BSMSD.i
Client ID: CV0993B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

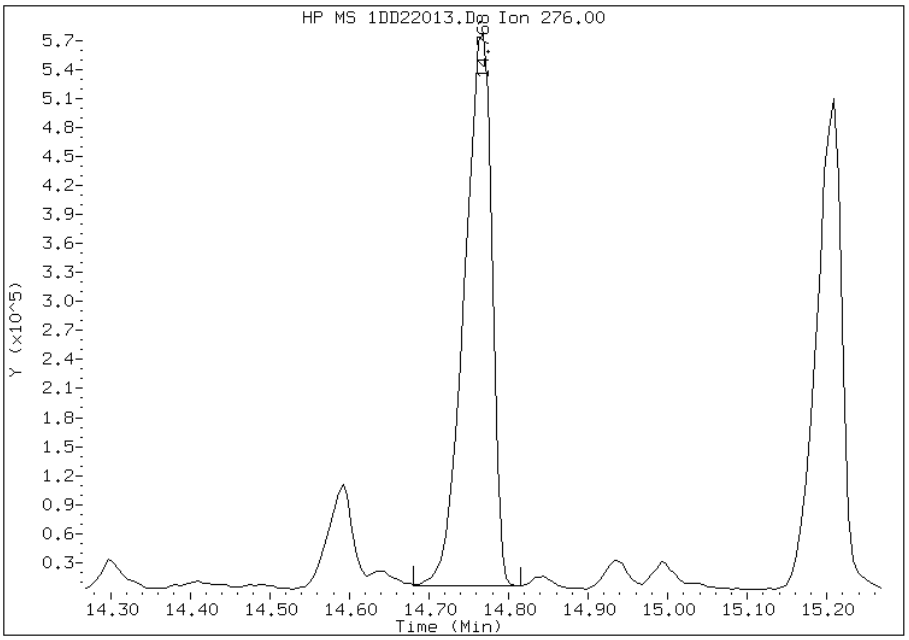
Processing Integration Results

RT: 14.77

Response: 1378102

Amount: 21

Conc: 1652



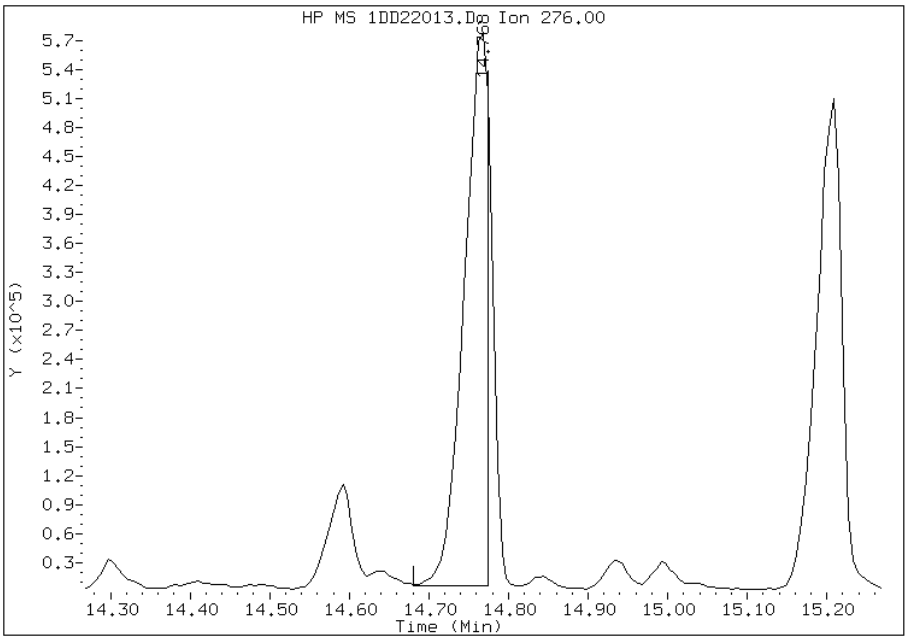
Manual Integration Results

RT: 14.77

Response: 1207916

Amount: 18

Conc: 1448



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV0993B-CS DL | Lab Sample ID: 680-89328-16 DL

Matrix: Solid | Lab File ID: 1DD23006.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 09:40

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 14.93(g) | Date Analyzed: 04/23/2013 14:52

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.: 136756 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	3900		58	29
206-44-0	Fluoranthene	6900		95	19
85-01-8	Phenanthrene	4800		38	18
129-00-0	Pyrene	5300		95	18

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23006.D
Lab Smp Id: 680-89328-A-16-A Client Smp ID: CV0993B-CS
Inj Date : 23-APR-2013 14:52
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-16-A
Misc Info : 680-89328-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	14.930	Weight Extracted
M	15.046	% 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	6.057	6.051	(1.000)	1793824	40.0000	
* 6	Acenaphthene-d10	164	7.737	7.732	(1.000)	1032949	40.0000	
* 9	Phenanthrene-d10	188	9.000	8.995	(1.000)	1672930	40.0000	
$ 13	o-Terphenyl	230	9.306	9.306	(1.034)	31404	1.24586	390
* 17	Chrysene-d12	240	11.309	11.304	(1.000)	1574674	40.0000	
* 22	Perylene-d12	264	13.131	13.120	(1.000)	1668112	40.0000	
2	Naphthalene	128	6.074	6.075	(1.003)	38489	0.86325	270
3	2-Methylnaphthalene	142	6.785	6.780	(1.120)	14232	0.49448	160
4	1-Methylnaphthalene	142	6.873	6.874	(1.135)	9901	0.36427	110
5	Acenaphthylene	152	7.608	7.608	(0.983)	4604	0.10531	33
7	Acenaphthene	154	7.760	7.761	(1.003)	45350	1.68049	530
8	Fluorene	166	8.207	8.208	(1.061)	44259	1.38495	440
10	Phenanthrene	178	9.018	9.013	(1.002)	697580	15.1384	4800
11	Anthracene	178	9.059	9.054	(1.007)	155240	3.39426	1100

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.200	9.195	(1.022)	106466	2.63908	830
14 Fluoranthene	202	10.005	10.000	(1.112)	1041289	21.9594	6900
15 Pyrene	202	10.193	10.188	(0.901)	789184	16.6891	5300
16 Benzo(a)anthracene	228	11.292	11.287	(0.998)	423075	9.29284	2900
18 Chrysene	228	11.333	11.328	(1.002)	366191	8.57829	2700
19 Benzo(b)fluoranthene	252	12.590	12.585	(0.959)	512111	12.2897	3900
20 Benzo(k)fluoranthene	252	12.619	12.620	(0.961)	187901	4.28027	1300
21 Benzo(a)pyrene	252	13.037	13.032	(0.993)	335669	8.01723	2500
23 Indeno(1,2,3-cd)pyrene	276	14.711	14.706	(1.120)	273812	6.13321	1900(M)
24 Dibenzo(a,h)anthracene	278	14.729	14.735	(1.122)	75017	1.78439	560
25 Benzo(g,h,i)perylene	276	15.146	15.141	(1.153)	292196	6.79744	2100

QC Flag Legend

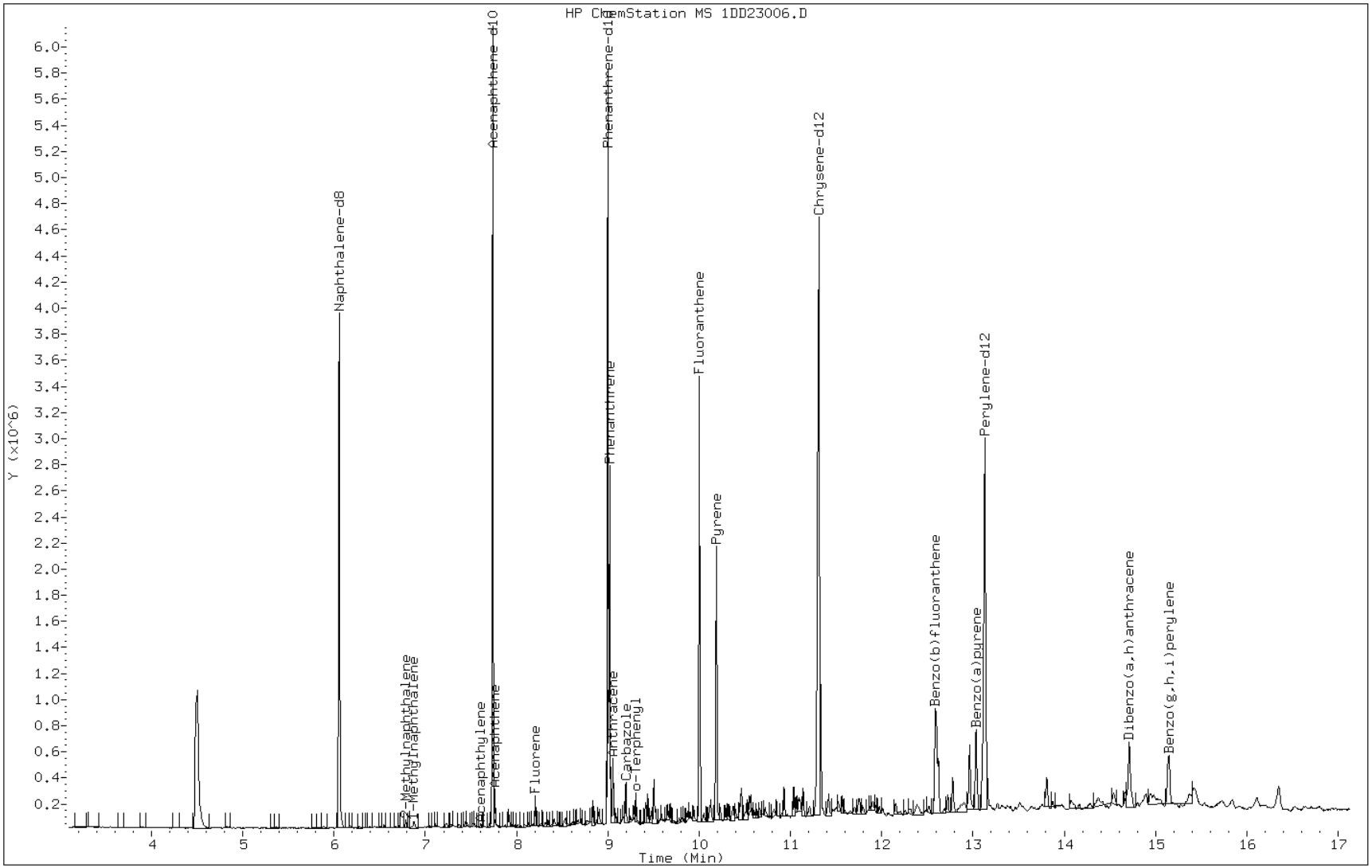
M - Compound response manually integrated.

Data File: 1DD23006.D

Date: 23-APR-2013 14:52

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC



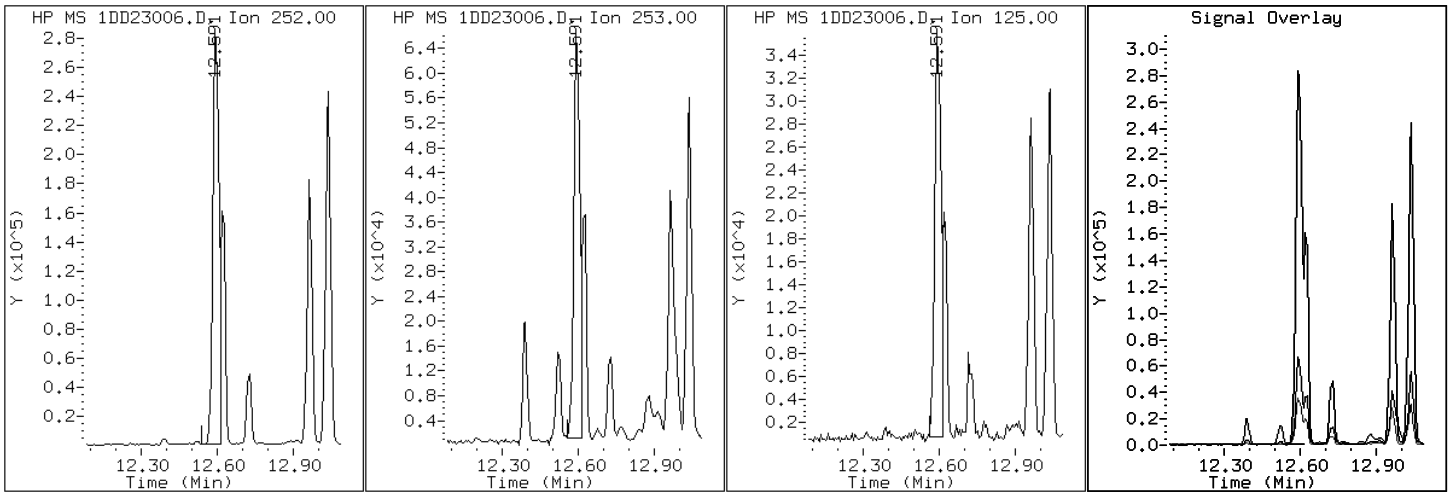
Data File: 1DD23006.D

Date: 23-APR-2013 14:52

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

19 Benzo(b)fluoranthene



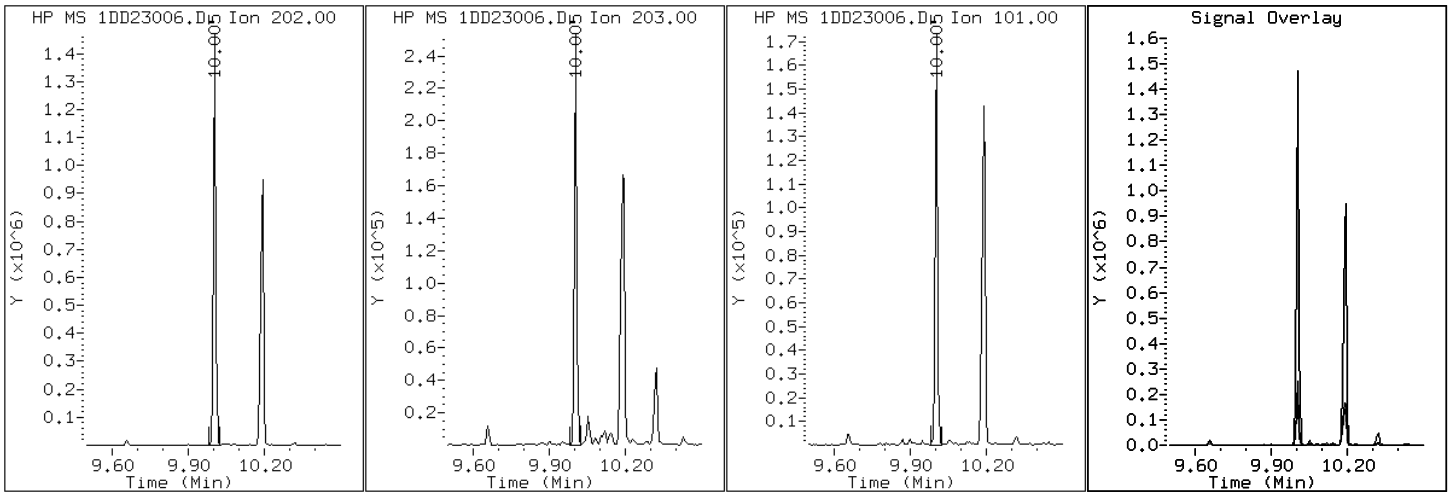
Data File: 1DD23006.D

Date: 23-APR-2013 14:52

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

14 Fluoranthene



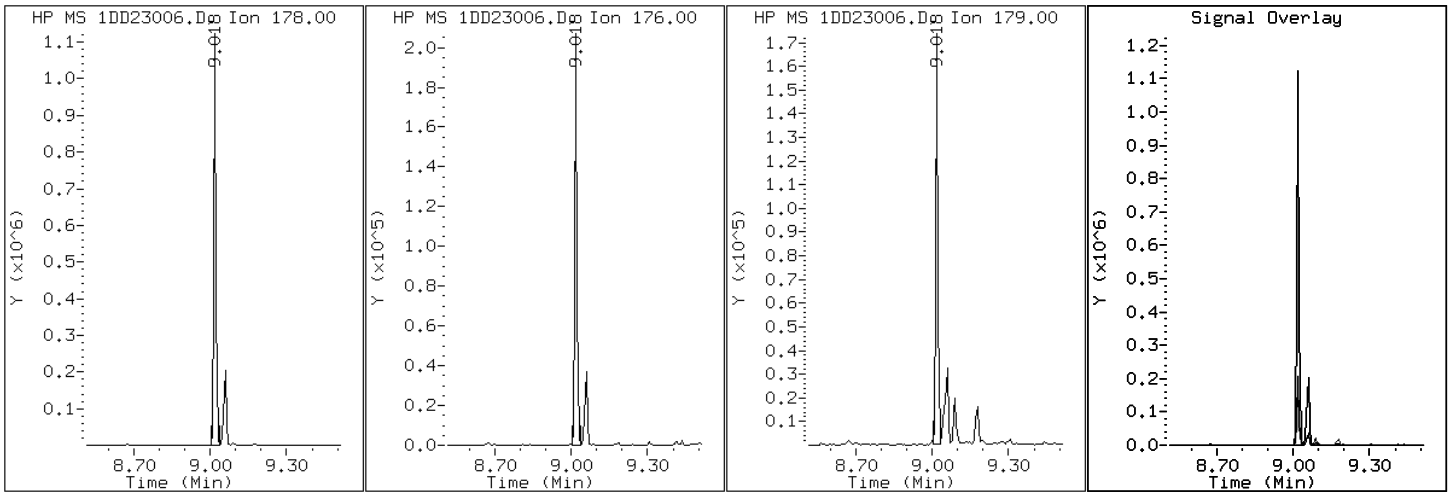
Data File: 1DD23006.D

Date: 23-APR-2013 14:52

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

10 Phenanthrene



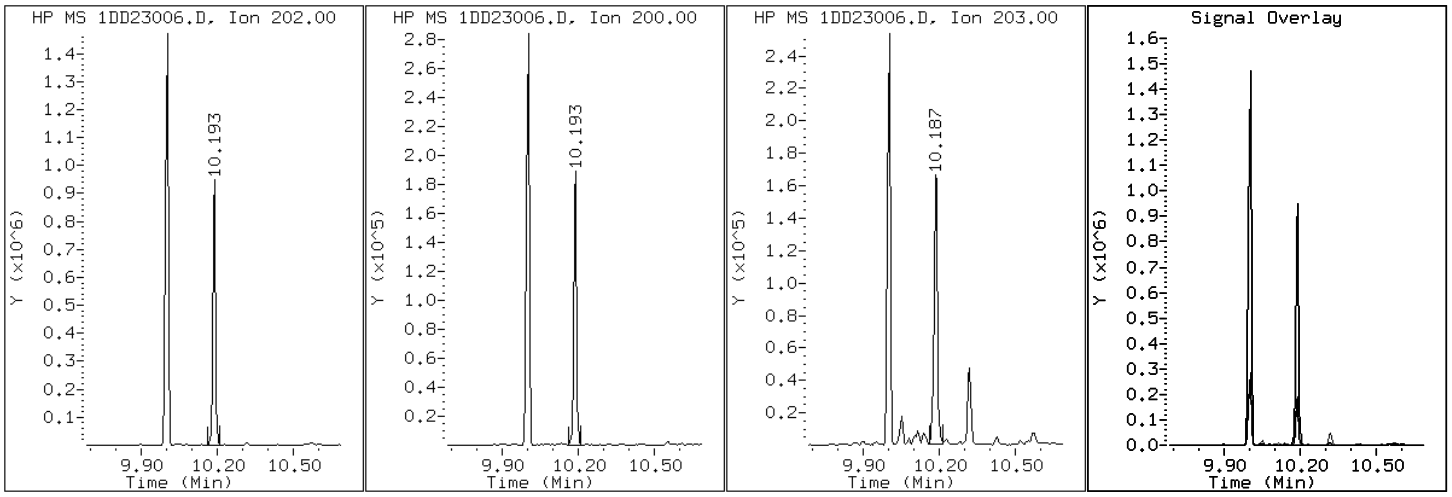
Data File: 1DD23006.D

Date: 23-APR-2013 14:52

Client ID: CV0993B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-16-A Operator: SCC

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV1290A-CS | Lab Sample ID: 680-89328-17

Matrix: Solid | Lab File ID: 1DD22014.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 10:30

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 14.90(g) | Date Analyzed: 04/22/2013 14:53

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

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

% Moisture: 42.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	94	J	180	35
208-96-8	Acenaphthylene	36	J	70	8.8
120-12-7	Anthracene	260		15	7.4
56-55-3	Benzo[a]anthracene	3300		14	6.8
50-32-8	Benzo[a]pyrene	4700		18	9.1
191-24-2	Benzo[g,h,i]perylene	2700		35	7.7
207-08-9	Benzo[k]fluoranthene	2500		14	6.3
218-01-9	Chrysene	4300		16	7.9
53-70-3	Dibenz(a,h)anthracene	1100		35	7.2
206-44-0	Fluoranthene	4700		35	7.0
86-73-7	Fluorene	87		35	7.2
193-39-5	Indeno[1,2,3-cd]pyrene	2400		35	12
90-12-0	1-Methylnaphthalene	410		70	7.7
91-57-6	2-Methylnaphthalene	520		70	12
91-20-3	Naphthalene	420		70	7.7
85-01-8	Phenanthrene	1700		14	6.8
129-00-0	Pyrene	2800		35	6.5

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22014.D
Lab Smp Id: 680-89328-A-17-A Client Smp ID: CV1290A-CS
Inj Date : 22-APR-2013 14:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-17-A
Misc Info : 680-89328-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	42.623	% 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	6.059	6.054	(1.000)	1925384	40.0000	
* 6	Acenaphthene-d10	164	7.740	7.734	(1.000)	1142740	40.0000	
* 9	Phenanthrene-d10	188	9.003	8.998	(1.000)	1883970	40.0000	
$ 13	o-Terphenyl	230	9.308	9.309	(1.034)	201878	7.11177	830
* 17	Chrysene-d12	240	11.330	11.307	(1.000)	2946842	40.0000	
* 22	Perylene-d12	264	13.169	13.122	(1.000)	2210621	40.0000	
2	Naphthalene	128	6.083	6.077	(1.004)	171039	3.57400	420
3	2-Methylnaphthalene	142	6.788	6.783	(1.120)	137365	4.44650	520
4	1-Methylnaphthalene	142	6.882	6.877	(1.136)	103443	3.54578	410
5	Acenaphthylene	152	7.610	7.611	(0.983)	14763	0.30524	36
7	Acenaphthene	154	7.763	7.764	(1.003)	23972	0.80296	94
8	Fluorene	166	8.210	8.204	(1.061)	26319	0.74445	87
10	Phenanthrene	178	9.021	9.015	(1.002)	756721	14.5822	1700
11	Anthracene	178	9.062	9.056	(1.007)	113684	2.20722	260

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.203	9.197	(1.022)	79896	1.75861	200
14 Fluoranthene	202	10.013	10.002	(1.112)	2135359	39.9874	4700
15 Pyrene	202	10.201	10.184	(0.900)	2101425	23.7467	2800
16 Benzo(a)anthracene	228	11.312	11.289	(0.998)	2401811	28.1906	3300
18 Chrysene	228	11.359	11.330	(1.003)	2962263	37.0809	4300
19 Benzo(b)fluoranthene	252	12.640	12.582	(0.960)	5297384	95.9291	11000(A)
20 Benzo(k)fluoranthene	252	12.669	12.623	(0.962)	1263492	21.7183	2500
21 Benzo(a)pyrene	252	13.086	13.034	(0.994)	2246780	40.4934	4700
23 Indeno(1,2,3-cd)pyrene	276	14.778	14.709	(1.122)	1220313	20.6261	2400(M)
24 Dibenzo(a,h)anthracene	278	14.790	14.732	(1.123)	536516	9.62993	1100
25 Benzo(g,h,i)perylene	276	15.225	15.143	(1.156)	1316006	23.1015	2700

QC Flag Legend

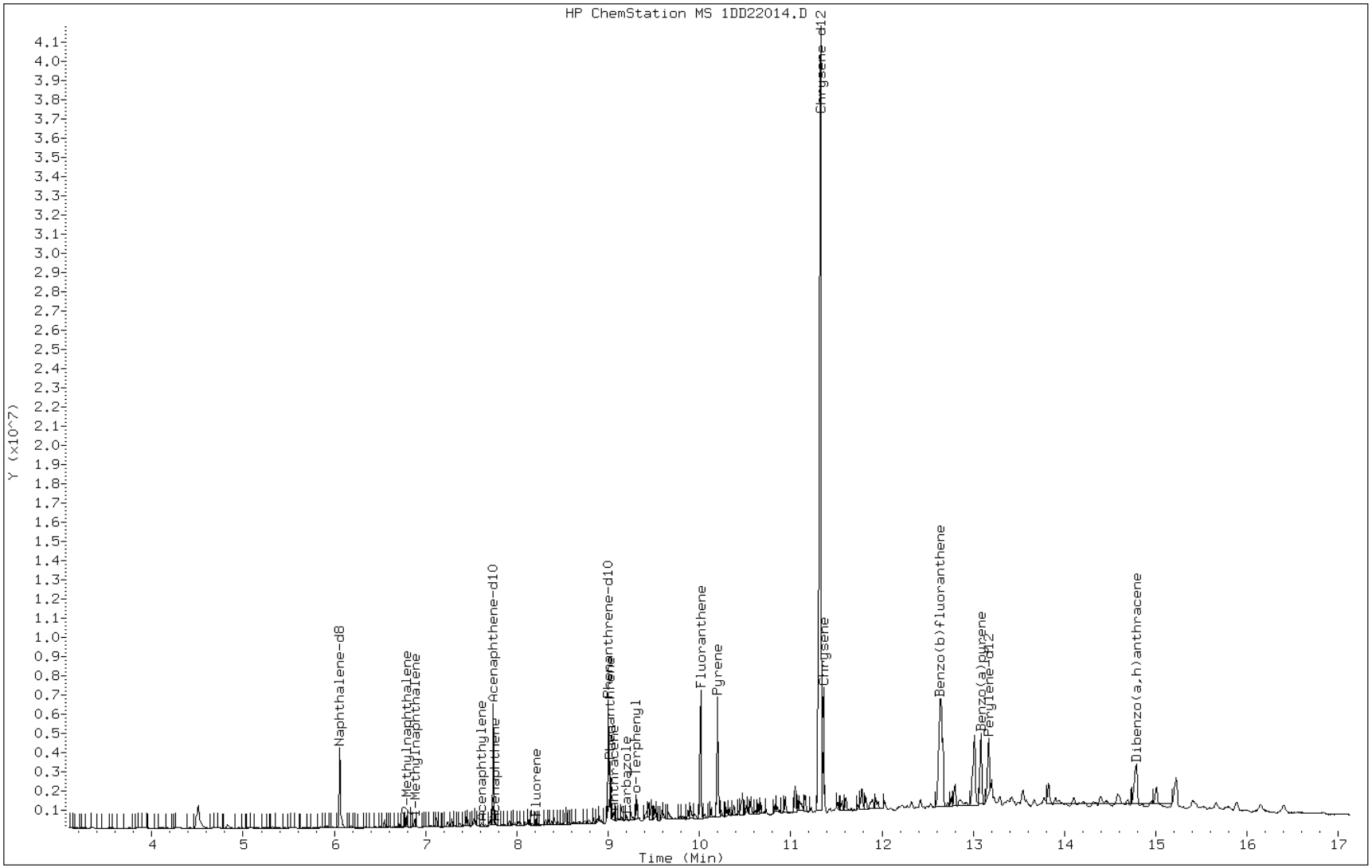
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC



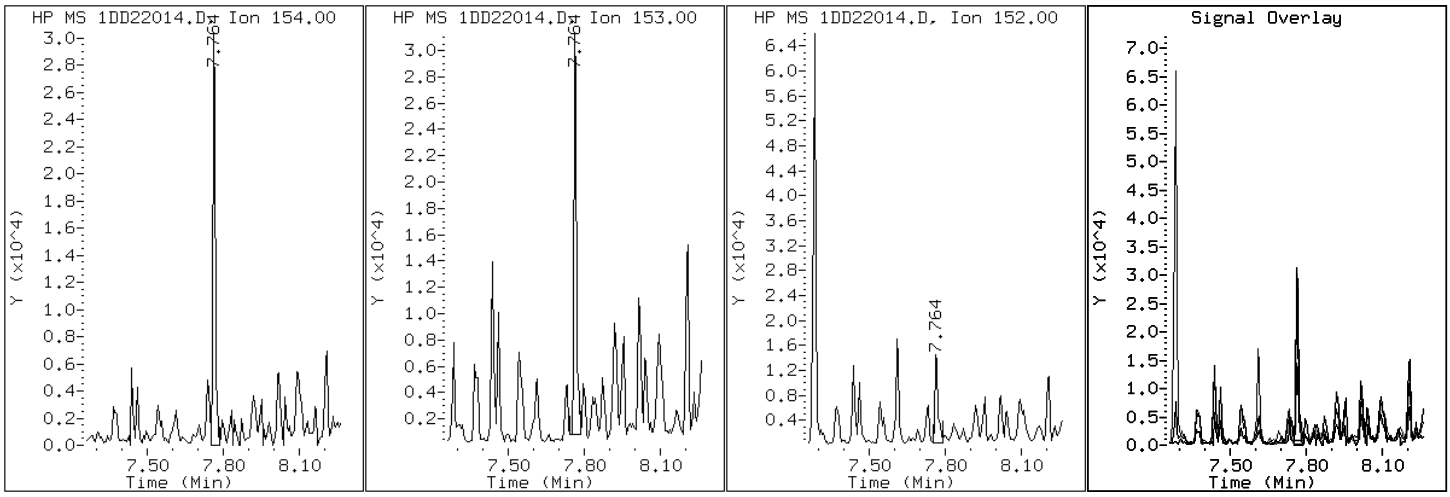
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

7 Acenaphthene



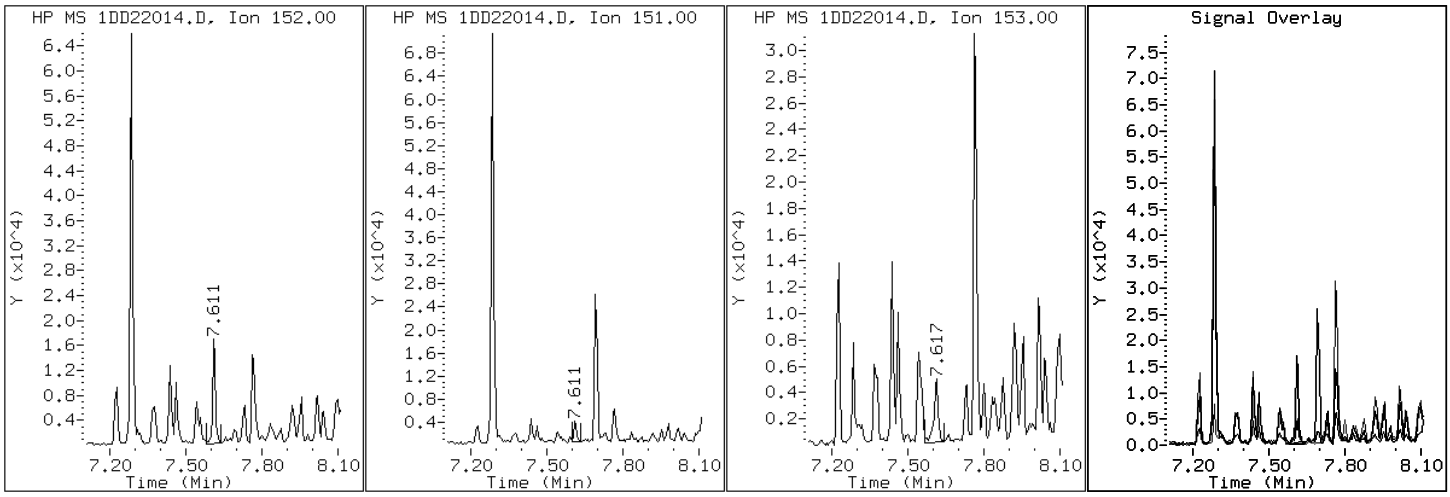
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

5 Acenaphthylene



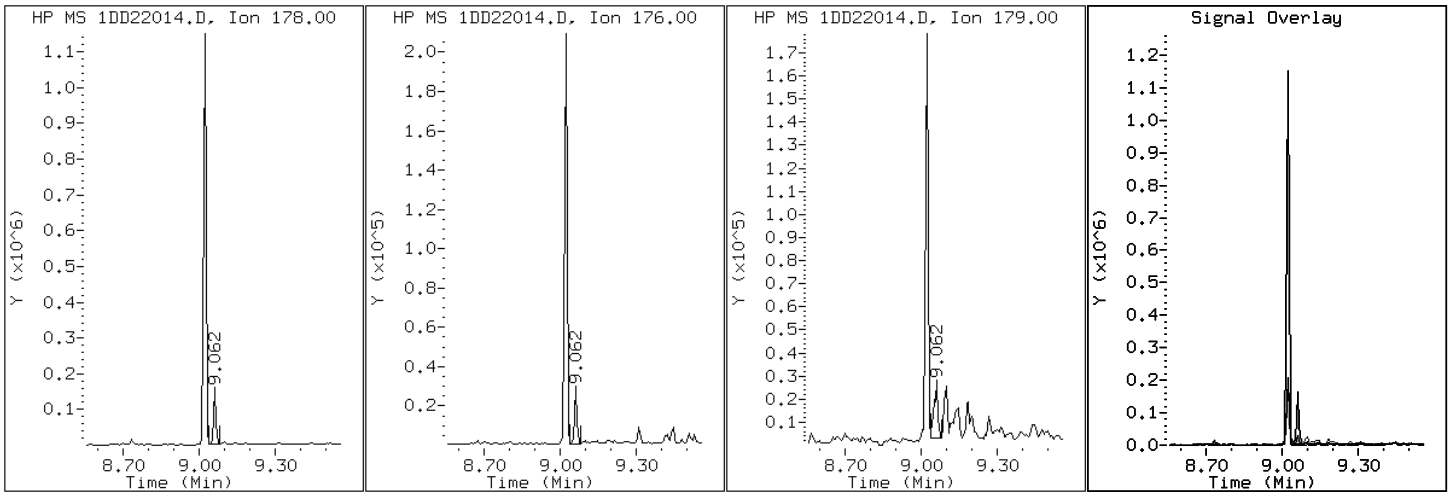
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

11 Anthracene



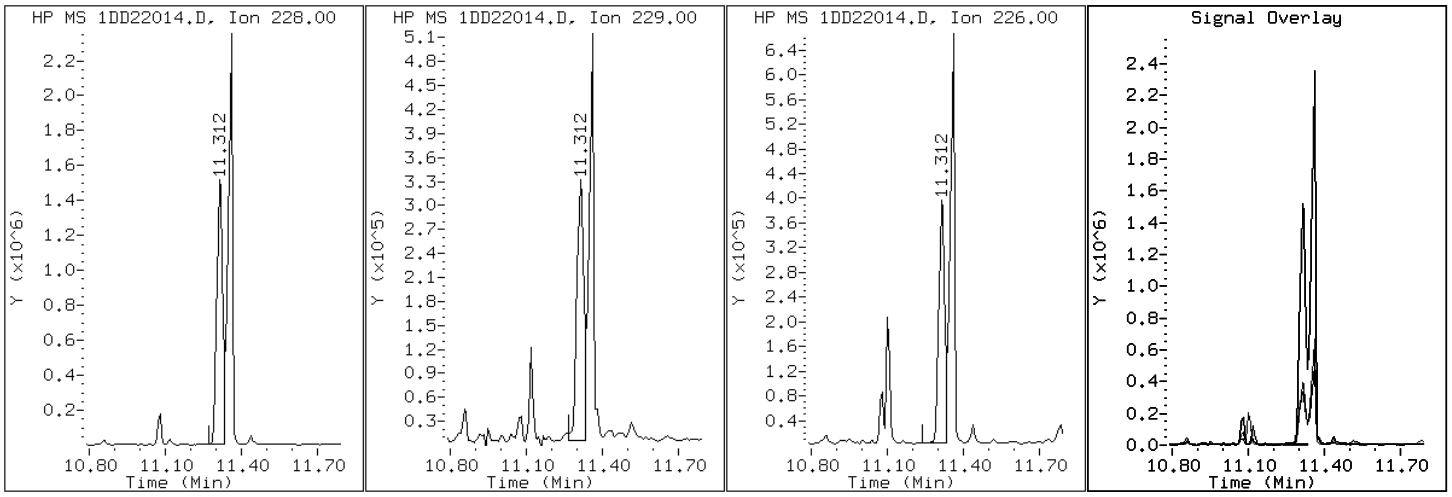
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

16 Benzo(a)anthracene



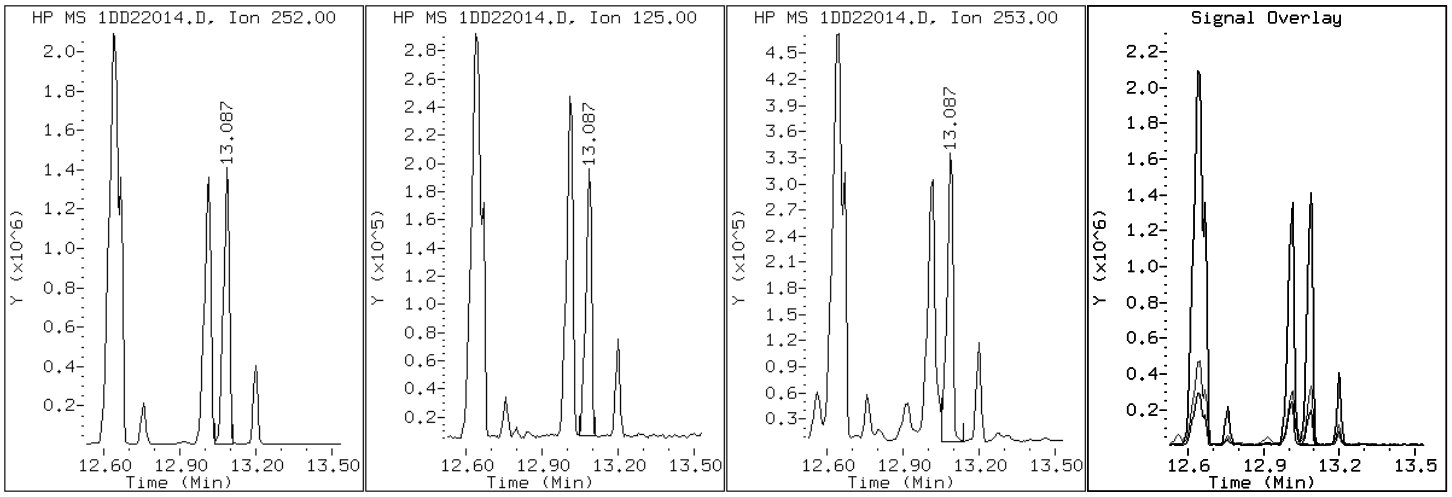
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

21 Benzo(a)pyrene



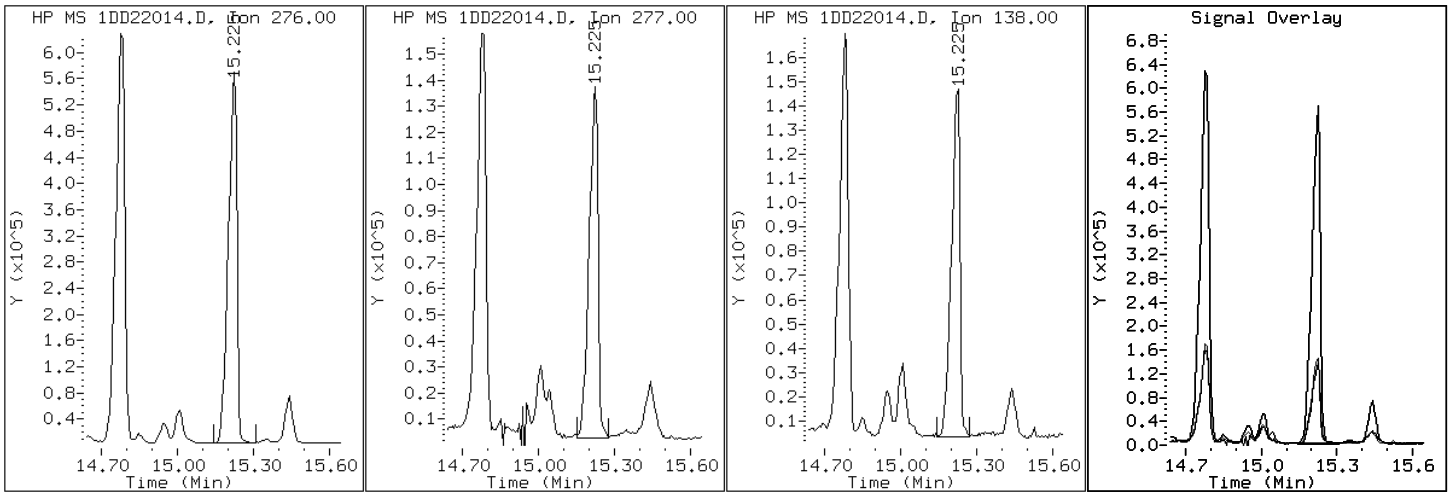
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

25 Benzo(g,h,i)perylene



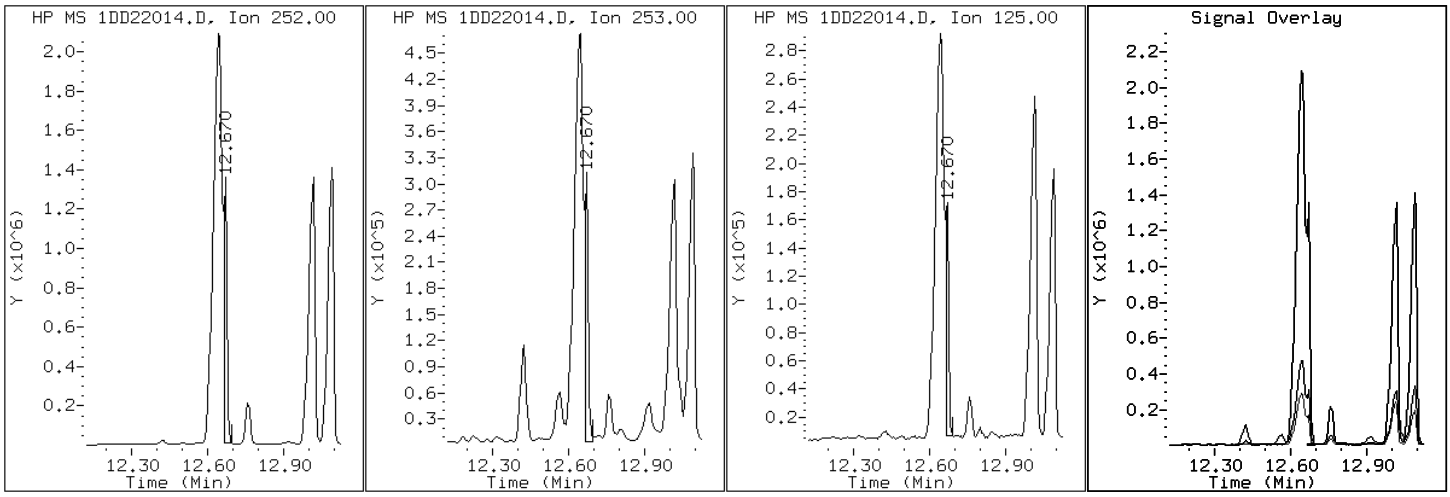
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

20 Benzo(k)fluoranthene



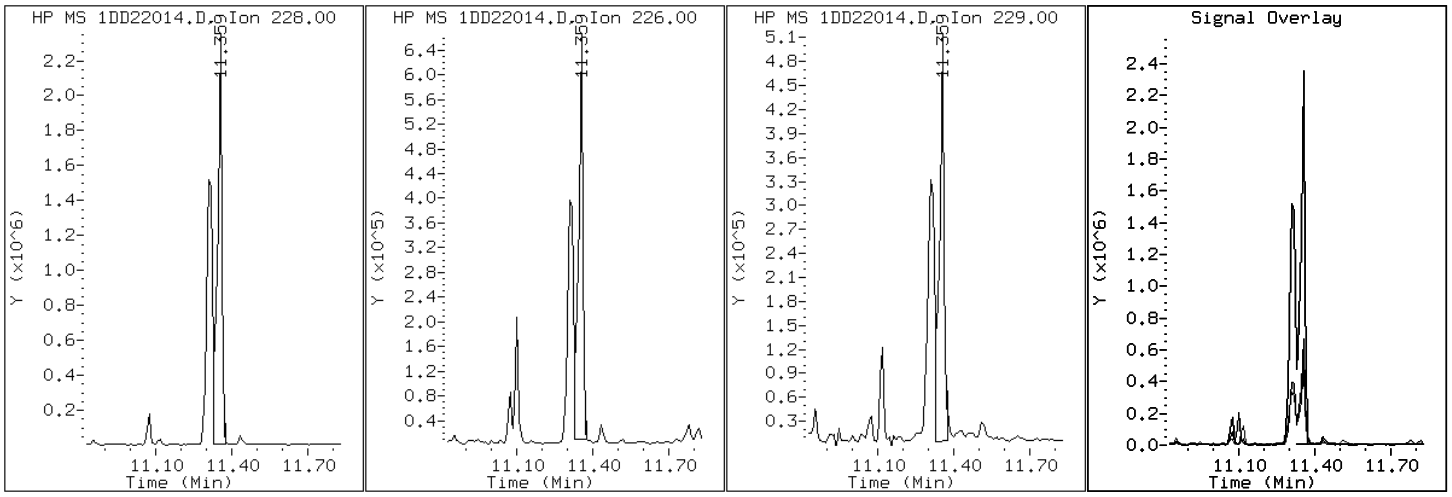
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

18 Chrysene



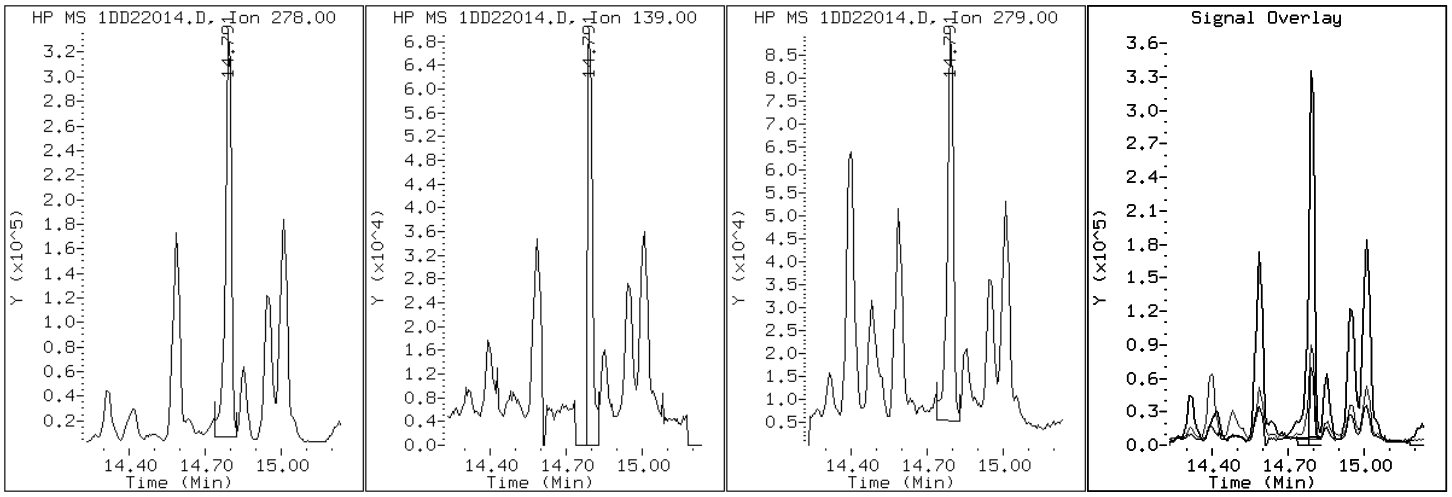
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

24 Dibenzo(a,h)anthracene



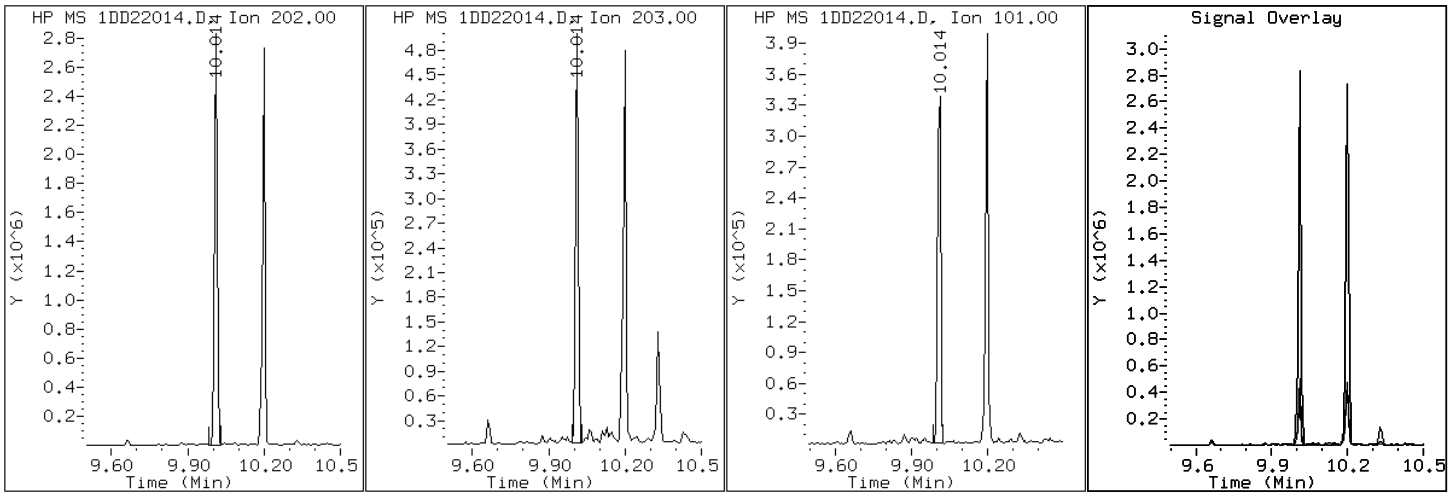
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

14 Fluoranthene



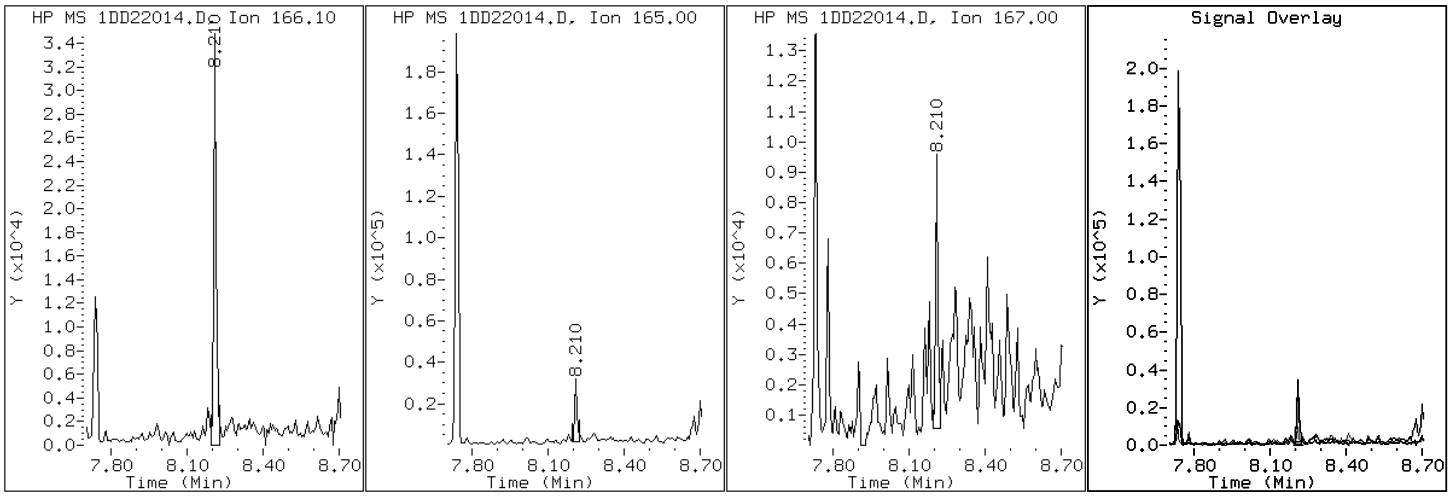
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

8 Fluorene



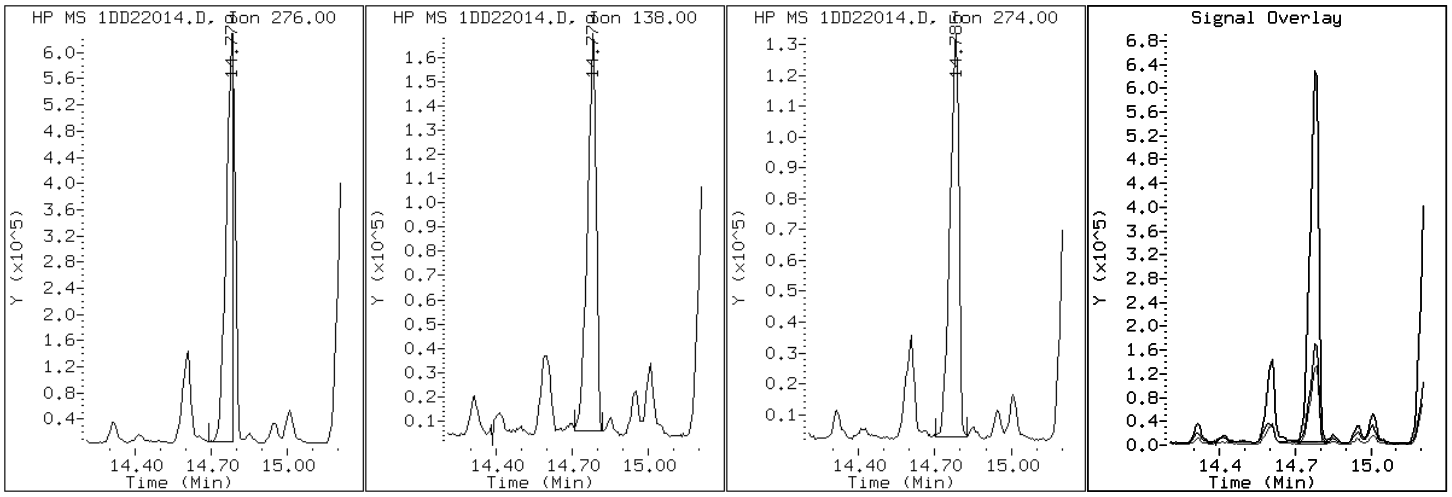
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

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



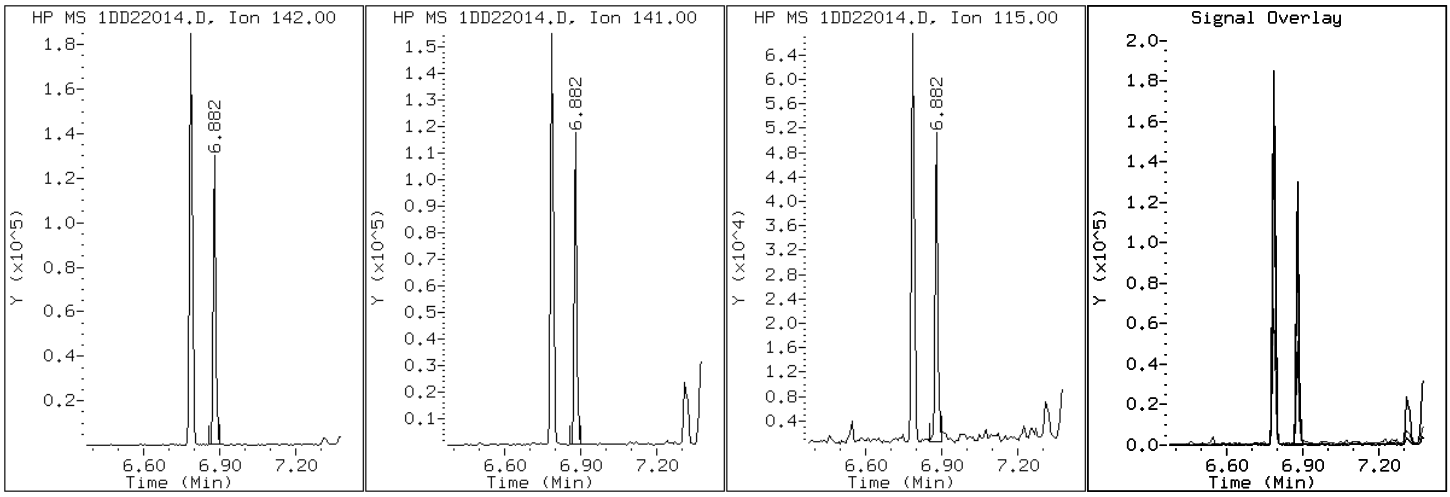
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

4 1-Methylnaphthalene



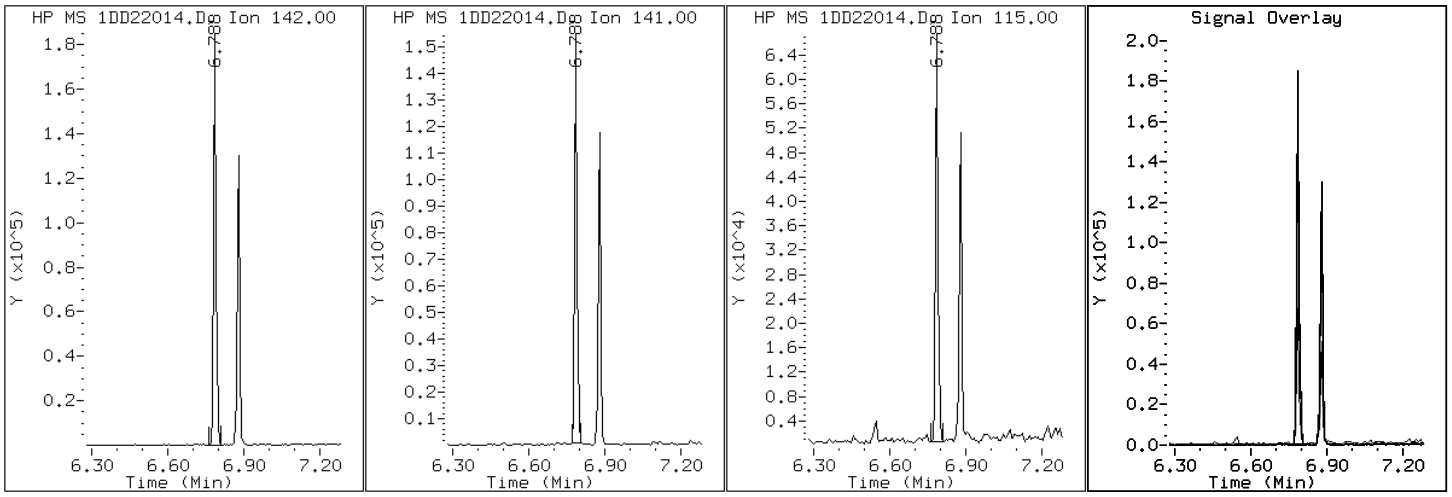
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

3 2-Methylnaphthalene



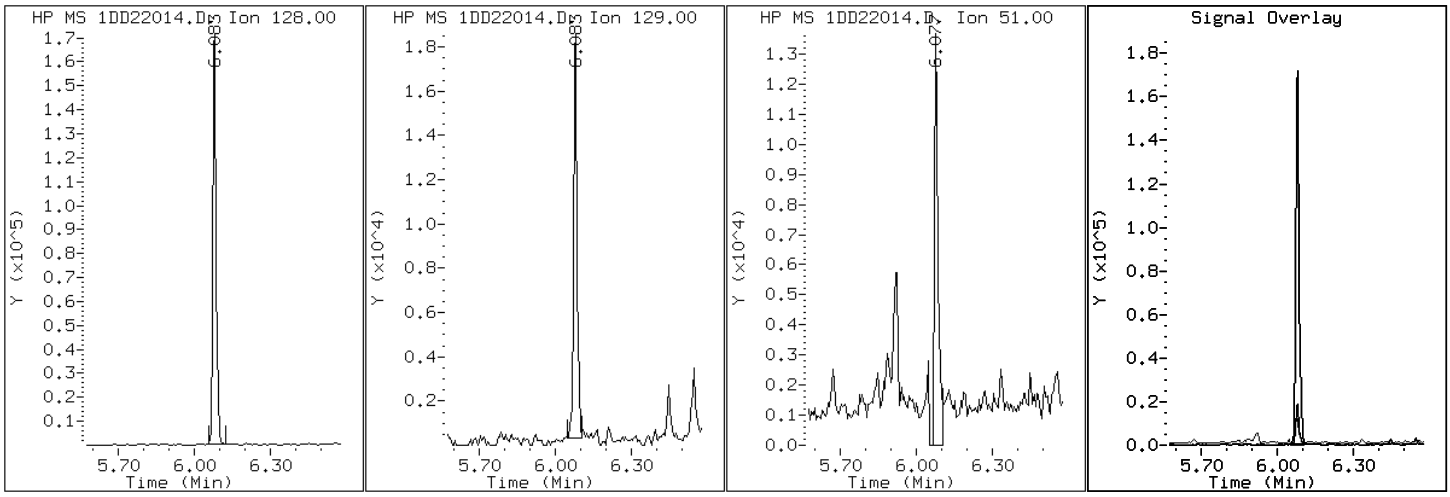
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

2 Naphthalene



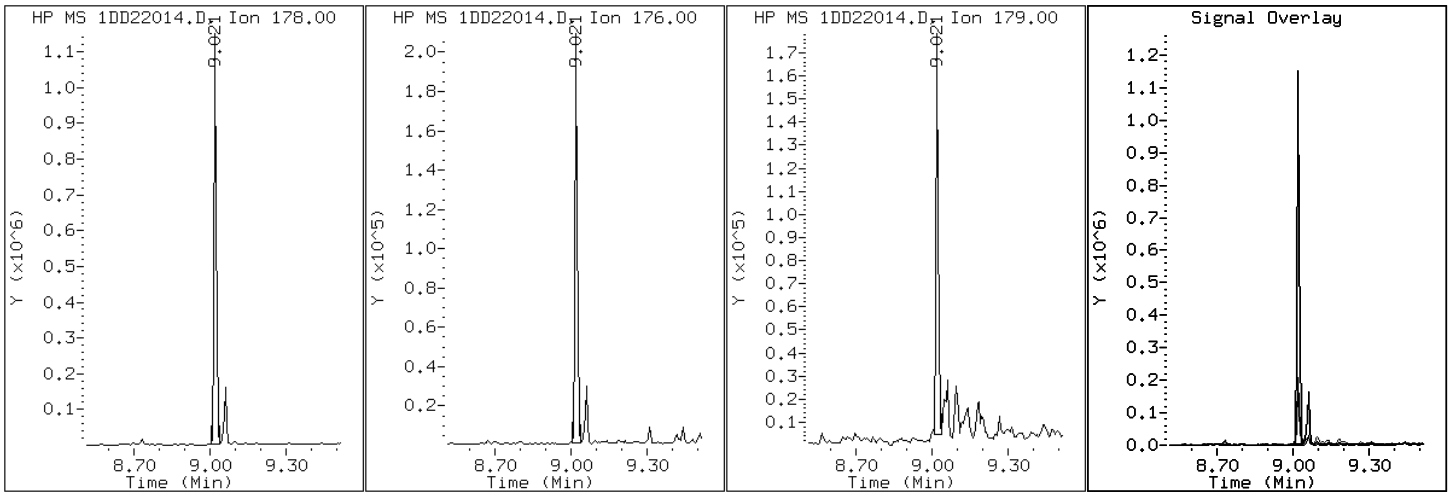
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

10 Phenanthrene



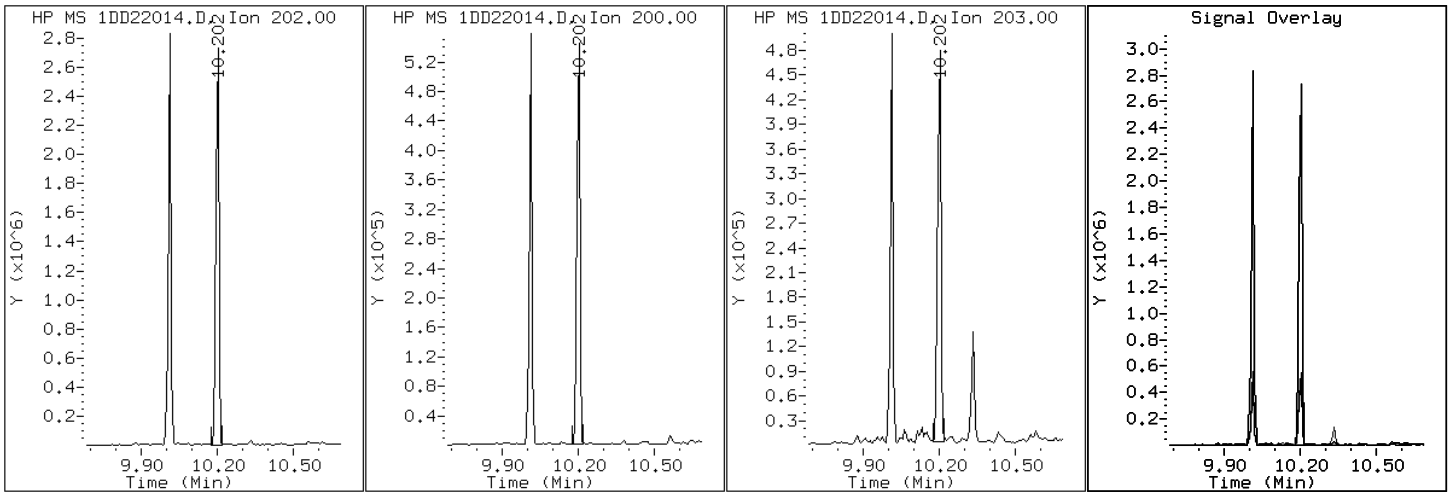
Data File: 1DD22014.D

Date: 22-APR-2013 14:53

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22014.D
Inj. Date and Time: 22-APR-2013 14:53
Instrument ID: BSMSD.i
Client ID: CV1290A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

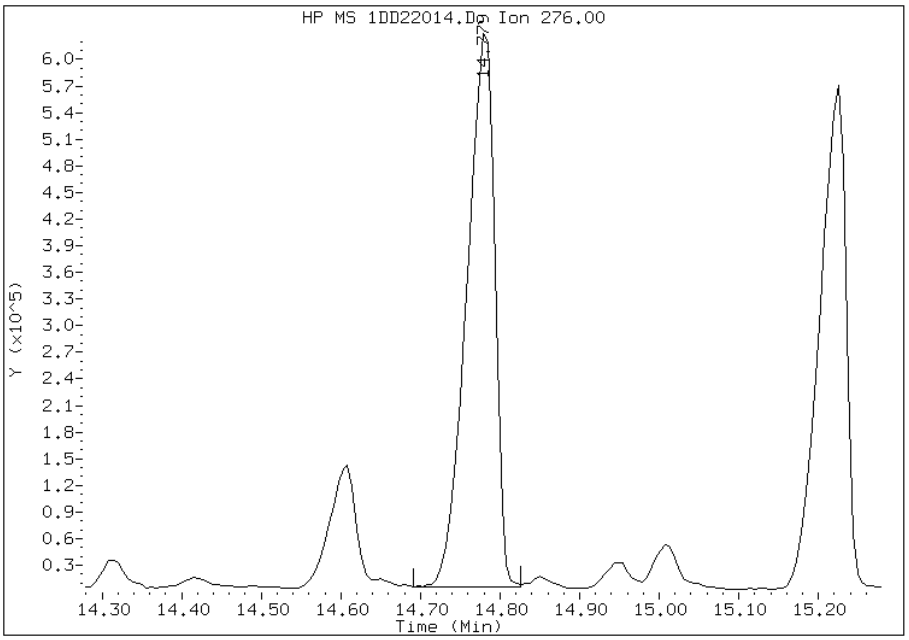
Processing Integration Results

RT: 14.78

Response: 1520117

Amount: 26

Conc: 3005



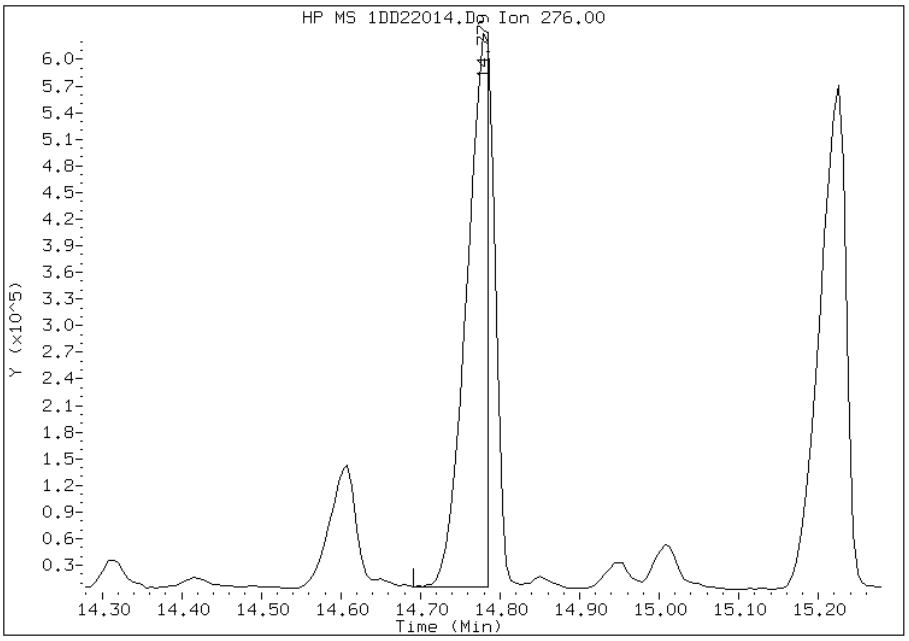
Manual Integration Results

RT: 14.78

Response: 1220313

Amount: 21

Conc: 2413



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV1290A-CS DL | Lab Sample ID: 680-89328-17 DL

Matrix: Solid | Lab File ID: 1DD23007.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 10:30

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 14.90(g) | Date Analyzed: 04/23/2013 15:14

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

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

% Moisture: 42.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136756 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	7800		86	43

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23007.D
Lab Smp Id: 680-89328-A-17-A Client Smp ID: CV1290A-CS
Inj Date : 23-APR-2013 15:14
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-17-A
Misc Info : 680-89328-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6
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	14.900	Weight Extracted
M	42.623	% 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	6.055	6.051	(1.000)	1743866	40.0000	
* 6	Acenaphthene-d10	164	7.736	7.732	(1.000)	992653	40.0000	
* 9	Phenanthrene-d10	188	8.993	8.995	(1.000)	1626280	40.0000	
$ 13	o-Terphenyl	230	9.304	9.306	(1.035)	38457	1.56943	730
* 17	Chrysene-d12	240	11.302	11.304	(1.000)	1688966	40.0000	
* 22	Perylene-d12	264	13.124	13.120	(1.000)	1721467	40.0000	
2	Naphthalene	128	6.073	6.075	(1.003)	35078	0.80928	380
3	2-Methylnaphthalene	142	6.778	6.780	(1.119)	27054	0.96689	450
4	1-Methylnaphthalene	142	6.872	6.874	(1.135)	20190	0.76410	360
5	Acenaphthylene	152	7.606	7.608	(0.983)	2605	0.06200	29
7	Acenaphthene	154	7.759	7.761	(1.003)	4804	0.18524	87
8	Fluorene	166	8.200	8.208	(1.060)	4349	0.14161	66(H)
10	Phenanthrene	178	9.011	9.013	(1.002)	137966	3.07992	1400
11	Anthracene	178	9.052	9.054	(1.007)	19966	0.44907	210

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.193	9.195	(1.022)	15158	0.38651	180
14 Fluoranthene	202	9.998	10.000	(1.112)	348278	7.55540	3500
15 Pyrene	202	10.186	10.188	(0.901)	339956	6.70267	3100
16 Benzo(a)anthracene	228	11.290	11.287	(0.999)	332551	6.81019	3200
18 Chrysene	228	11.326	11.328	(1.002)	395335	8.63431	4000
19 Benzo(b)fluoranthene	252	12.589	12.585	(0.959)	718037	16.6975	7800
20 Benzo(k)fluoranthene	252	12.618	12.620	(0.961)	253574	5.59723	2600
21 Benzo(a)pyrene	252	13.029	13.032	(0.993)	369700	8.55636	4000
23 Indeno(1,2,3-cd)pyrene	276	14.710	14.706	(1.121)	386521	8.38947	3900(M)
24 Dibenzo(a,h)anthracene	278	14.728	14.735	(1.122)	143208	3.30083	1500
25 Benzo(g,h,i)perylene	276	15.151	15.141	(1.154)	436496	9.83961	4600

QC Flag Legend

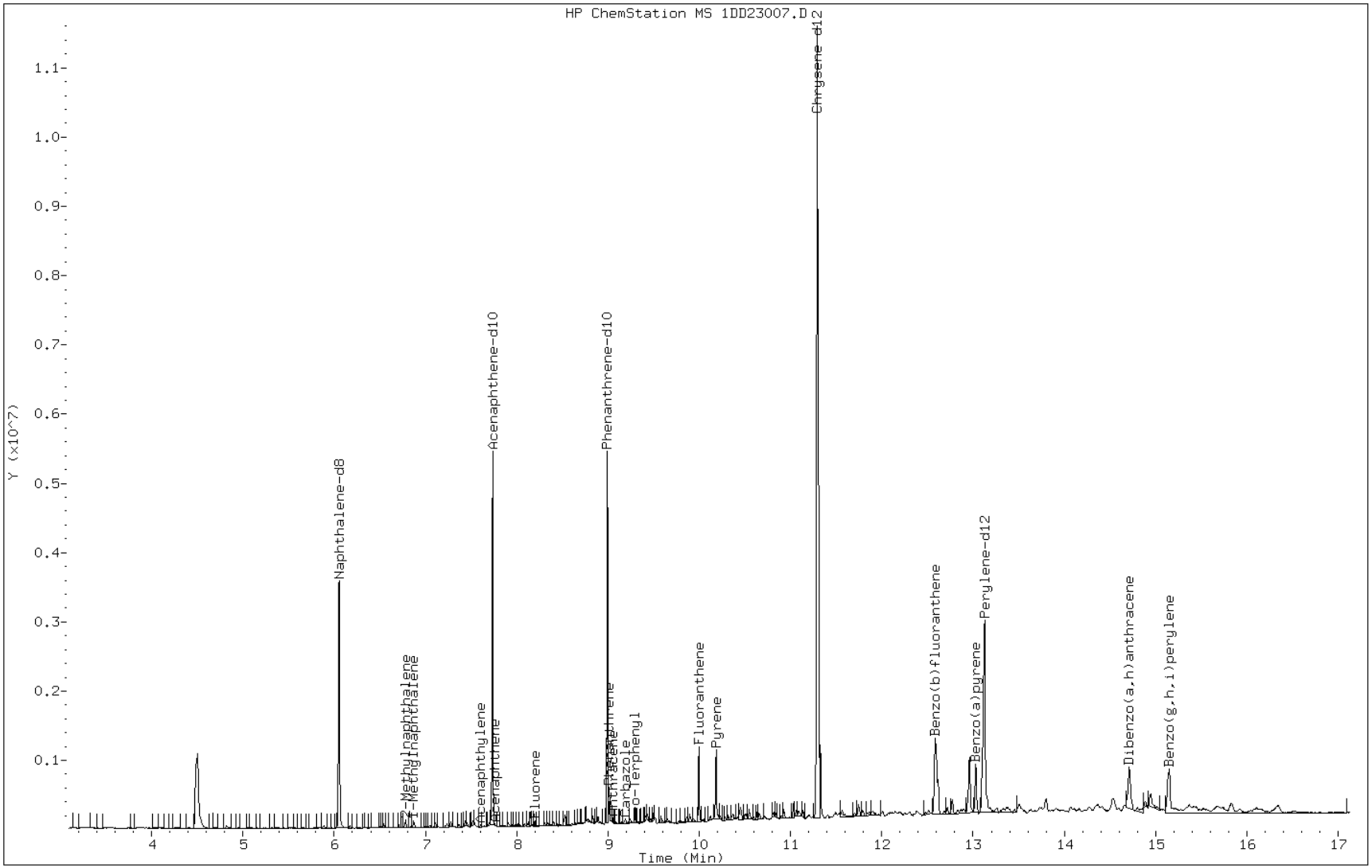
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD23007.D

Date: 23-APR-2013 15:14

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC



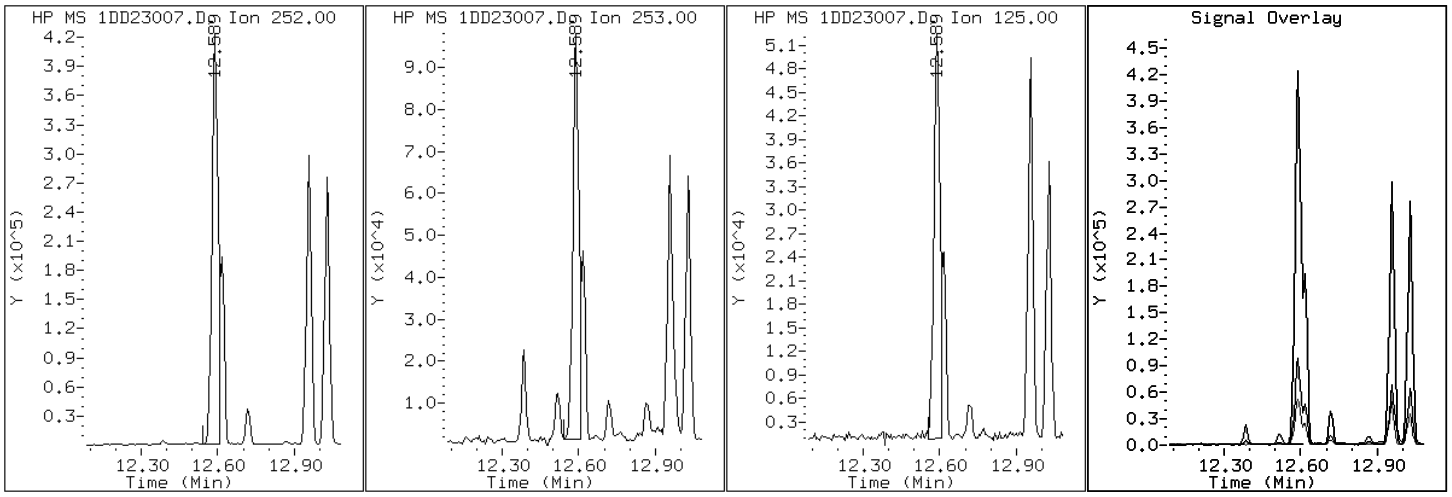
Data File: 1DD23007.D

Date: 23-APR-2013 15:14

Client ID: CV1290A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-17-A Operator: SCC

19 Benzo(b)fluoranthene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV1117A-CS | Lab Sample ID: 680-89328-18

Matrix: Solid | Lab File ID: 1DD22015.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 14:50

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 14.94(g) | Date Analyzed: 04/22/2013 15:16

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

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

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	57		53	6.6
120-12-7	Anthracene	93		11	5.6
56-55-3	Benzo[a]anthracene	170		11	5.2
50-32-8	Benzo[a]pyrene	210		14	6.9
205-99-2	Benzo[b]fluoranthene	480		16	8.1
191-24-2	Benzo[g,h,i]perylene	110		26	5.8
207-08-9	Benzo[k]fluoranthene	150		11	4.8
218-01-9	Chrysene	240		12	6.0
53-70-3	Dibenz(a,h)anthracene	40		26	5.4
206-44-0	Fluoranthene	260		26	5.3
86-73-7	Fluorene	12	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	120		26	9.4
90-12-0	1-Methylnaphthalene	37	J	53	5.8
91-57-6	2-Methylnaphthalene	48	J	53	9.4
91-20-3	Naphthalene	44	J	53	5.8
85-01-8	Phenanthrene	110		11	5.2
129-00-0	Pyrene	190		26	4.9

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\1D042213.b\1DD22015.D
Lab Smp Id: 680-89328-A-18-A Client Smp ID: CV1117A-CS
Inj Date : 22-APR-2013 15:16
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-18-A
Misc Info : 680-89328-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	24.194	% 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	6.063	6.054	(1.000)	1906972	40.0000	
* 6	Acenaphthene-d10	164	7.743	7.734	(1.000)	1123736	40.0000	
* 9	Phenanthrene-d10	188	9.007	8.998	(1.000)	1858995	40.0000	
$ 13	o-Terphenyl	230	9.312	9.309	(1.034)	233917	8.35115	740
* 17	Chrysene-d12	240	11.322	11.307	(1.000)	2210416	40.0000	
* 22	Perylene-d12	264	13.149	13.122	(1.000)	2112821	40.0000	
2	Naphthalene	128	6.081	6.077	(1.003)	23444	0.49461	44
3	2-Methylnaphthalene	142	6.786	6.783	(1.119)	16621	0.54322	48
4	1-Methylnaphthalene	142	6.880	6.877	(1.135)	12144	0.42029	37
5	Acenaphthylene	152	7.614	7.611	(0.983)	30666	0.64477	57
8	Fluorene	166	8.214	8.204	(1.061)	4643	0.13355	12
10	Phenanthrene	178	9.018	9.015	(1.001)	65057	1.27051	110
11	Anthracene	178	9.060	9.056	(1.006)	53370	1.05012	93
12	Carbazole	167	9.206	9.197	(1.022)	16587	0.37001	33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.006	10.002	(1.111)	154534	2.93273	260
15 Pyrene	202	10.194	10.184	(0.900)	145300	2.18896	190
16 Benzo(a)anthracene	228	11.304	11.289	(0.998)	124347	1.94573	170
18 Chrysene	228	11.339	11.330	(1.002)	161762	2.69952	240
19 Benzo(b)fluoranthene	252	12.602	12.582	(0.958)	284607	5.39245	480
20 Benzo(k)fluoranthene	252	12.632	12.623	(0.961)	93292	1.67783	150
21 Benzo(a)pyrene	252	13.049	13.034	(0.992)	123960	2.33753	210
23 Indeno(1,2,3-cd)pyrene	276	14.729	14.709	(1.120)	74548	1.31836	120(M)
24 Dibenzo(a,h)anthracene	278	14.753	14.732	(1.122)	24248	0.45537	40
25 Benzo(g,h,i)perylene	276	15.170	15.143	(1.154)	70131	1.28808	110

QC Flag Legend

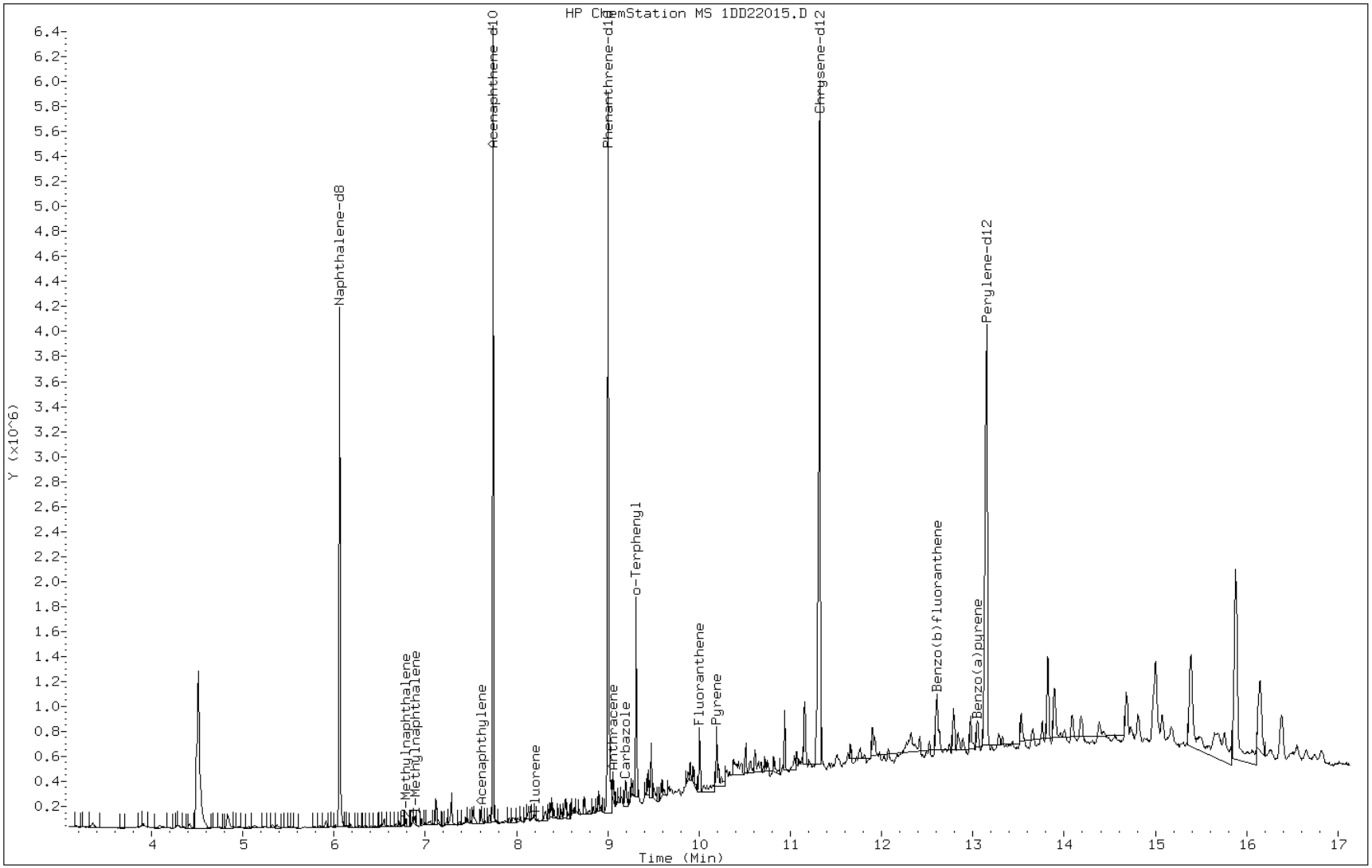
M - Compound response manually integrated.

Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC



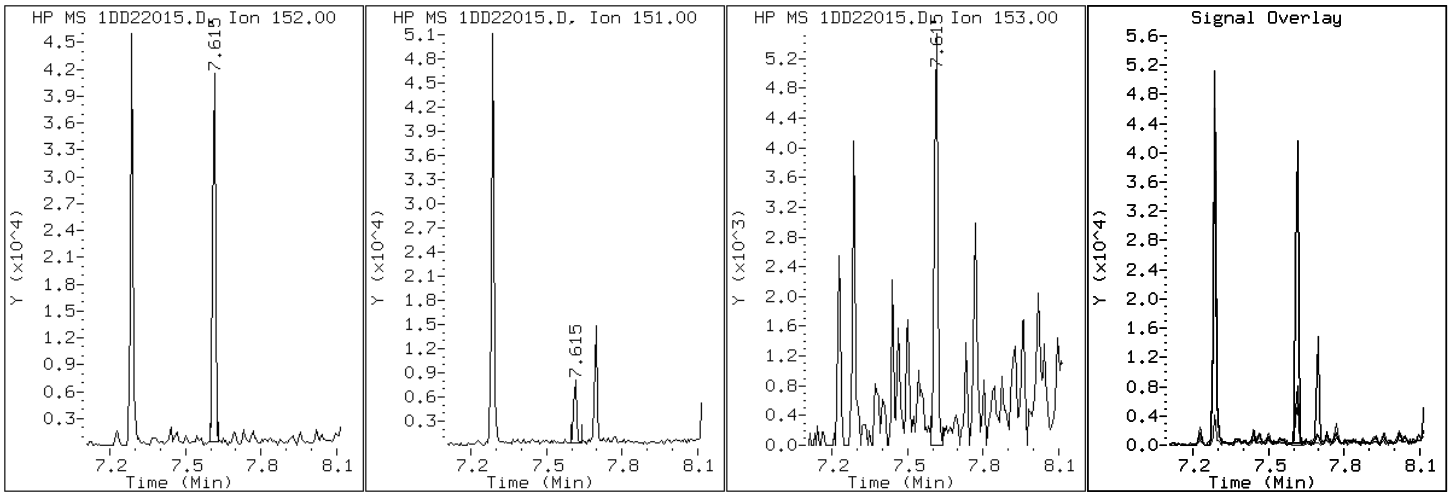
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

5 Acenaphthylene



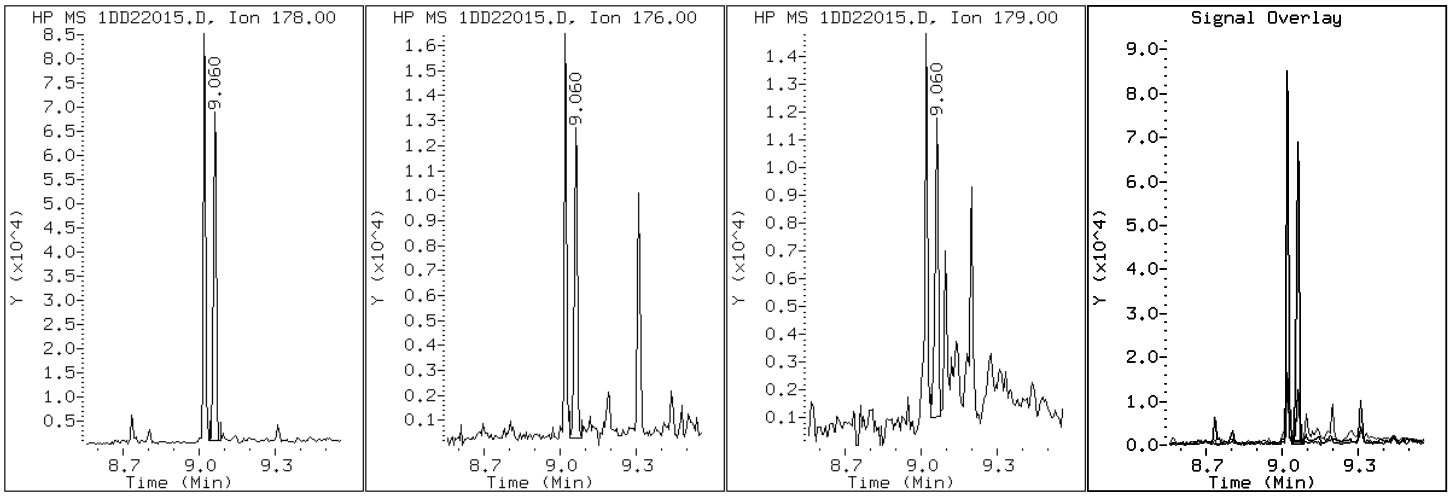
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

11 Anthracene



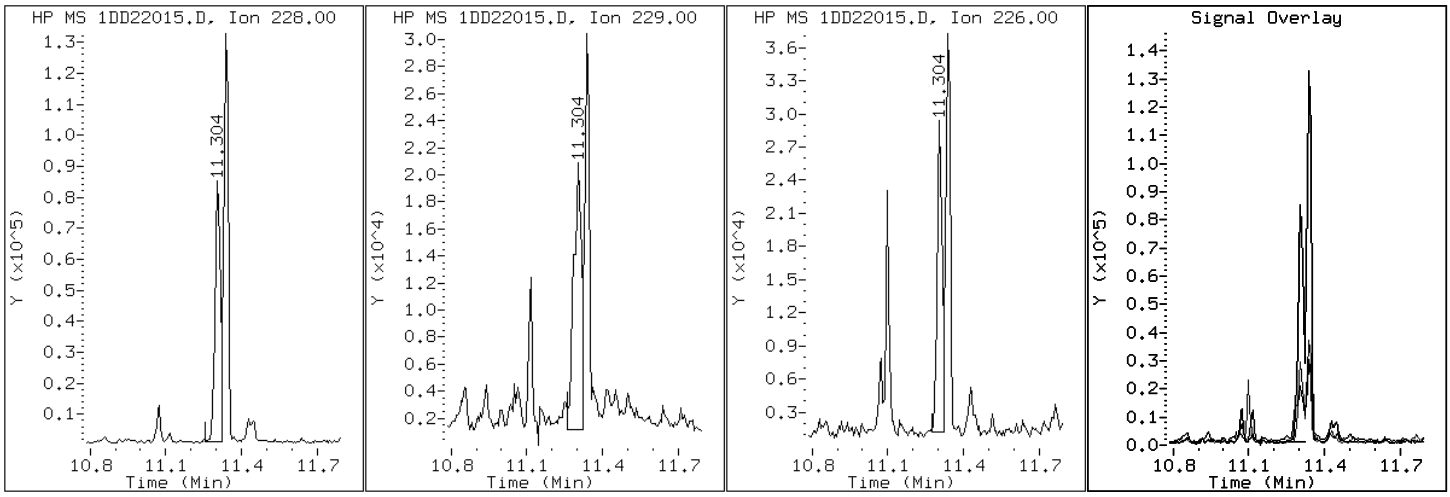
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

16 Benzo(a)anthracene



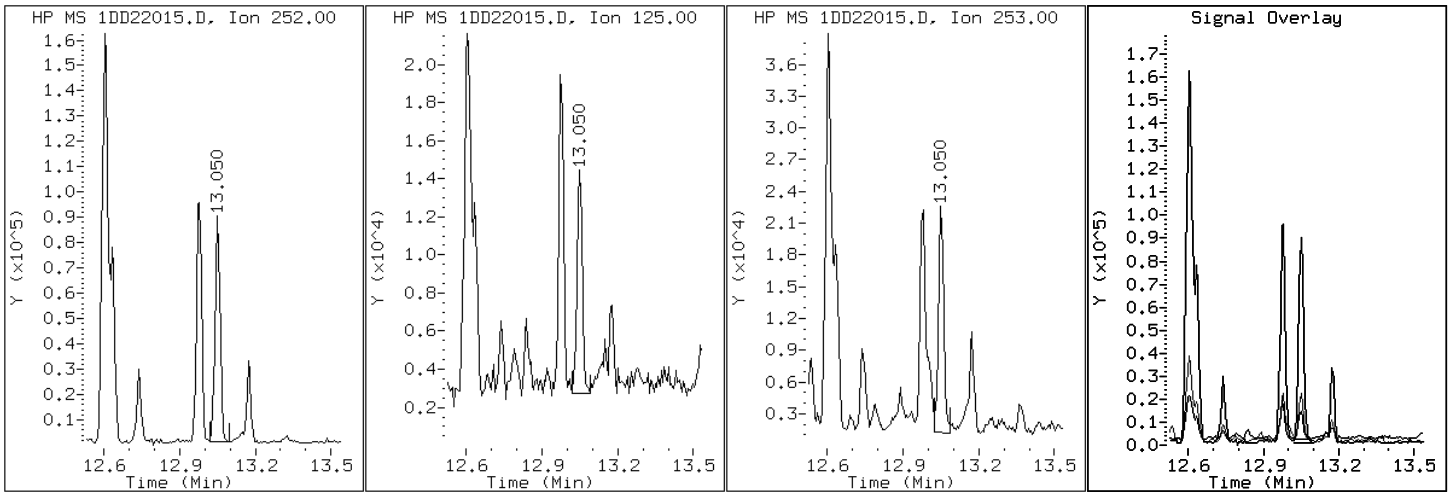
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

21 Benzo(a)pyrene



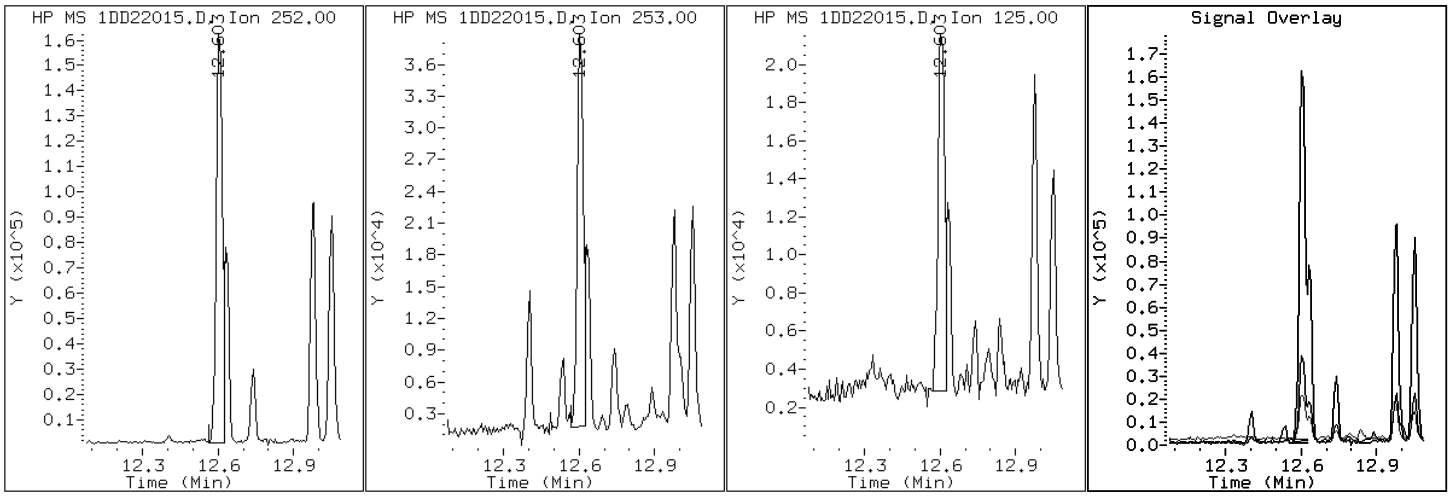
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

19 Benzo(b)fluoranthene



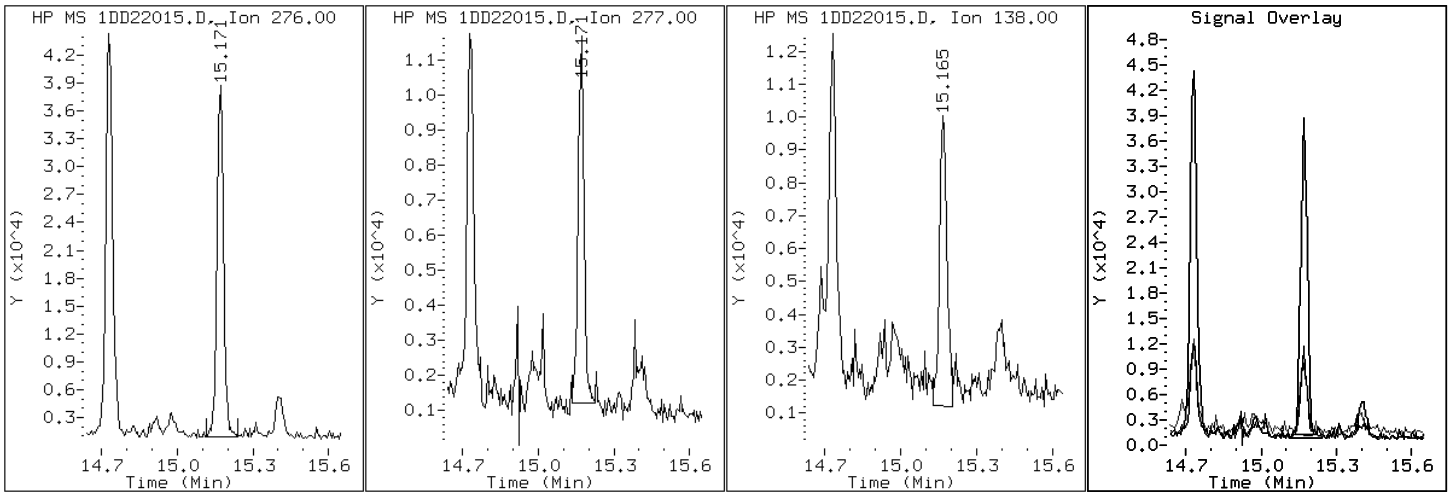
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

25 Benzo(g,h,i)perylene



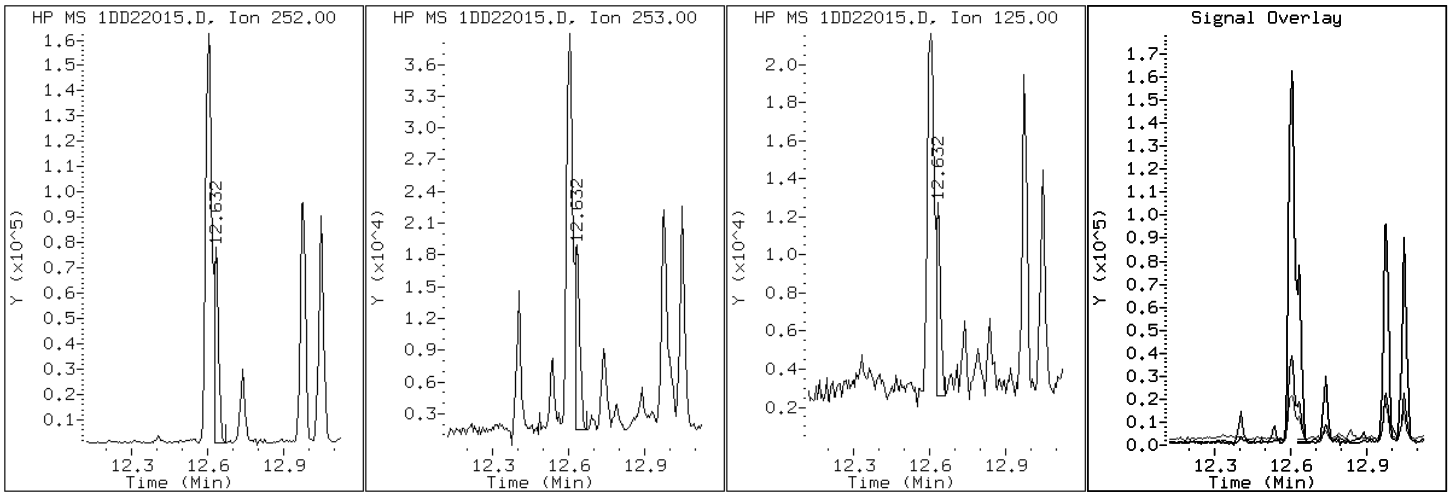
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

20 Benzo(k)fluoranthene



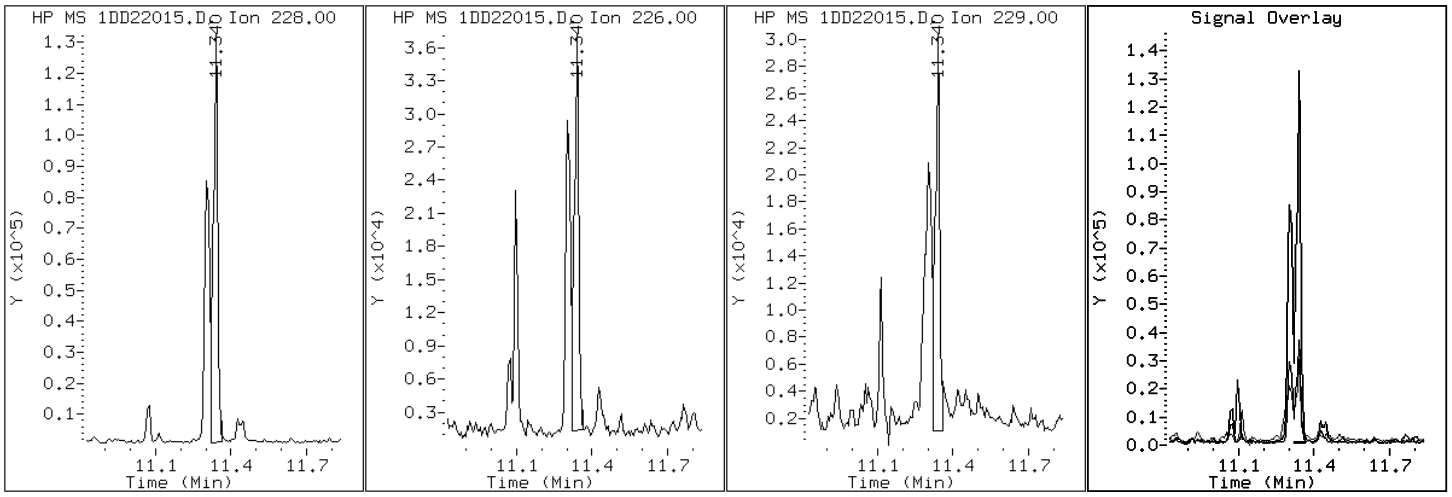
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

18 Chrysene



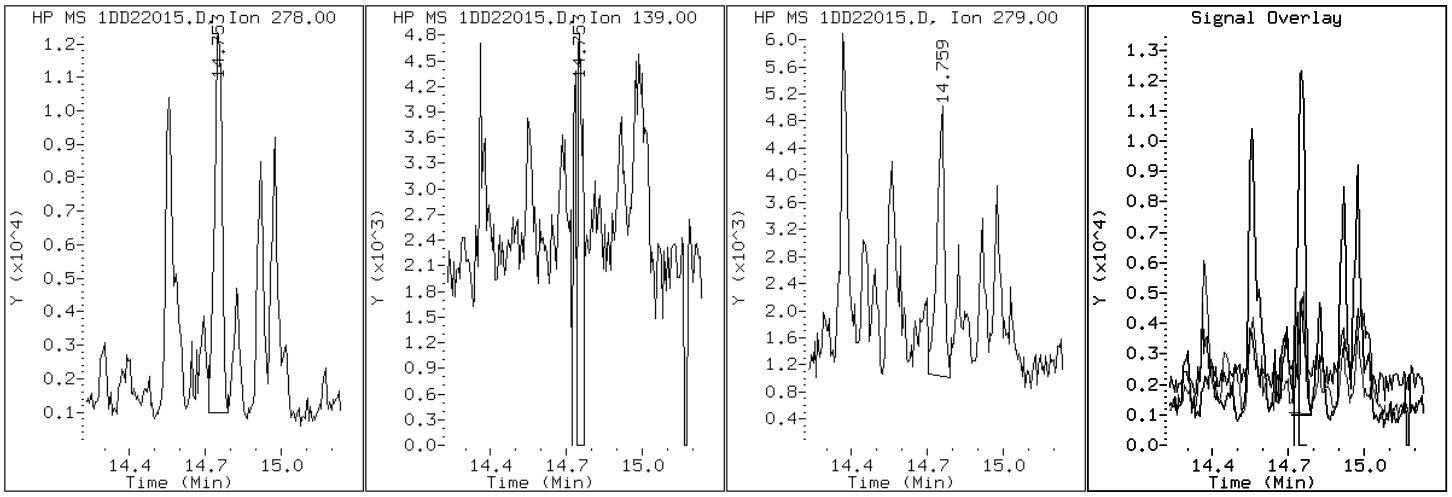
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

24 Dibenzo(a,h)anthracene



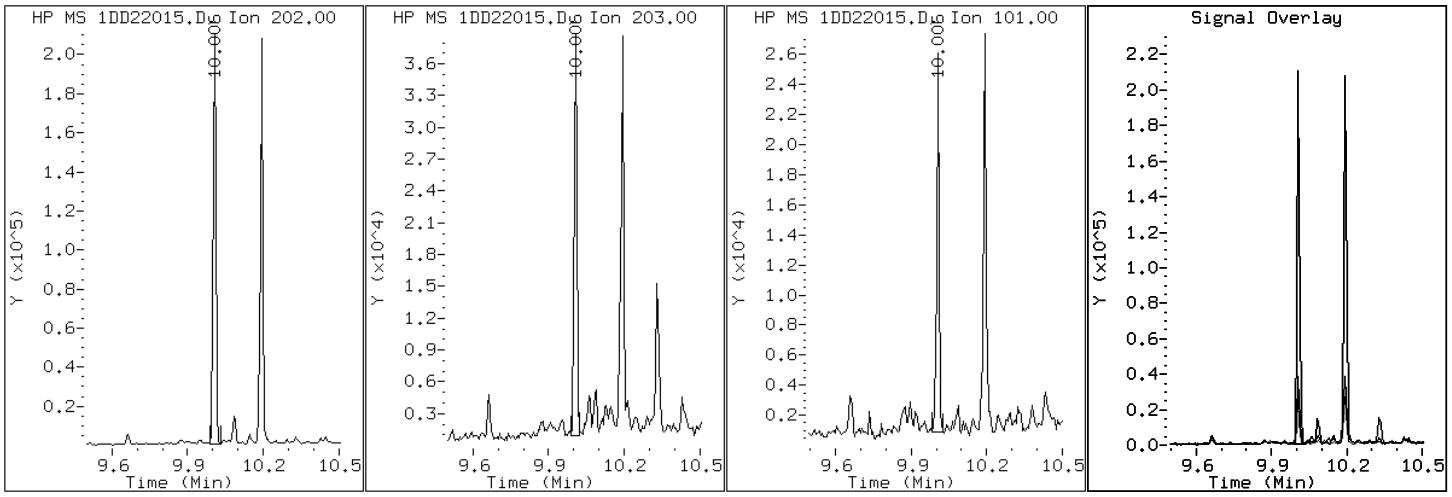
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

14 Fluoranthene



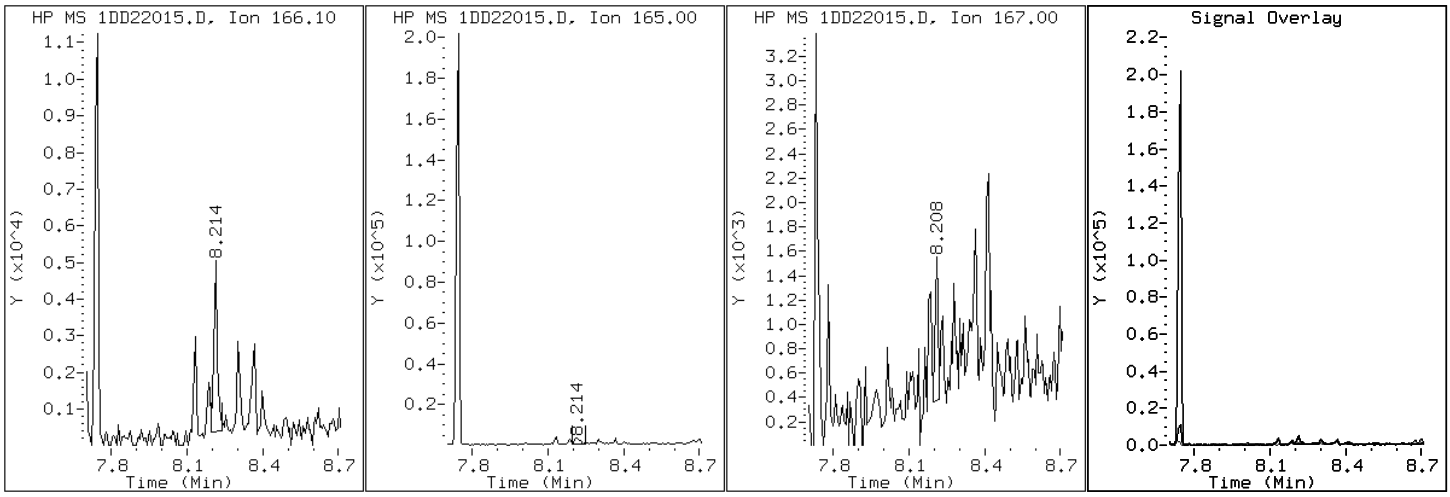
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

8 Fluorene



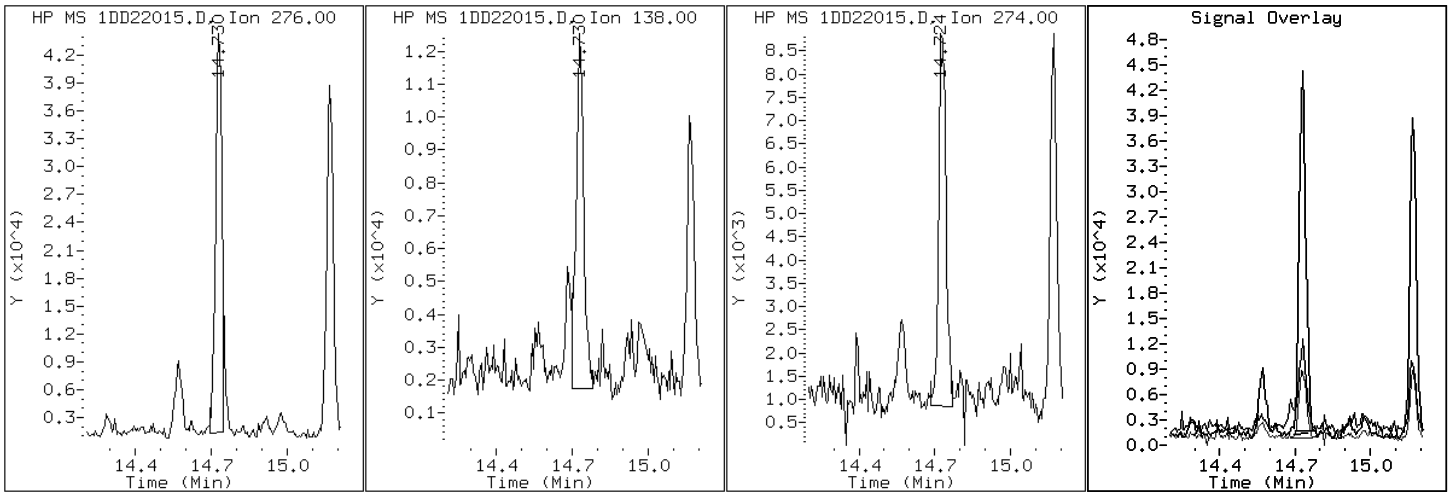
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

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



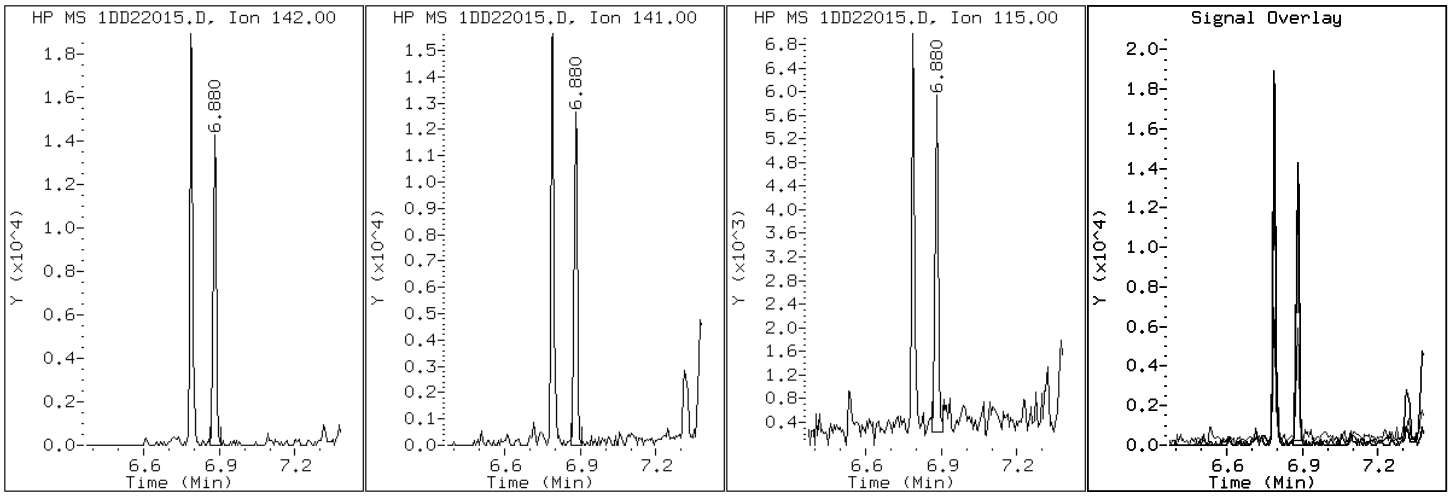
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

4 1-Methylnaphthalene



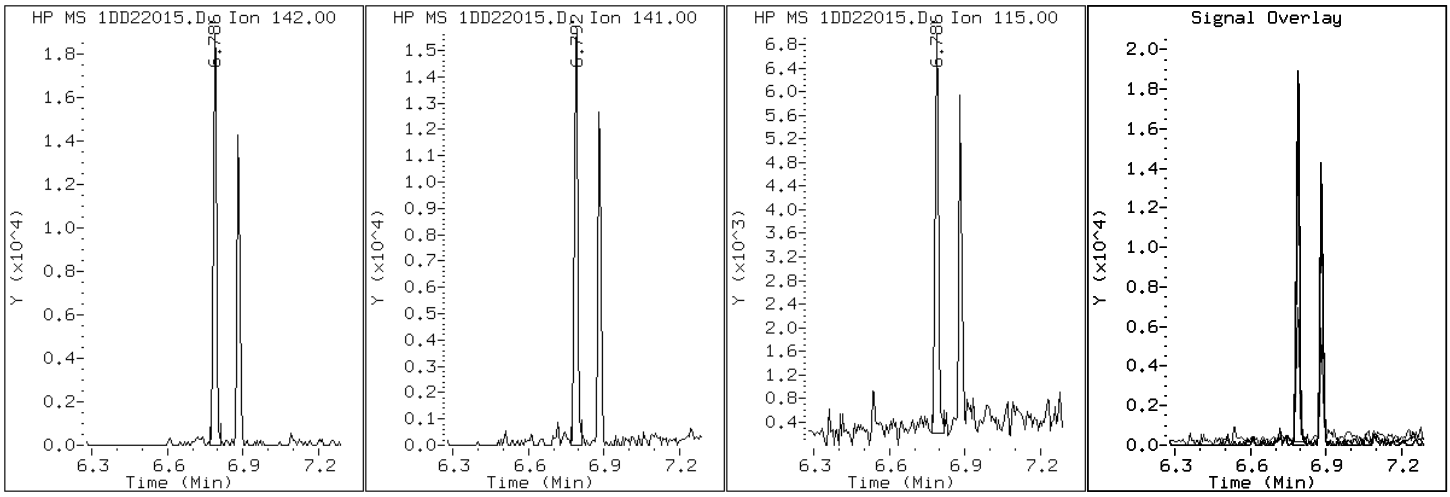
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

3 2-Methylnaphthalene



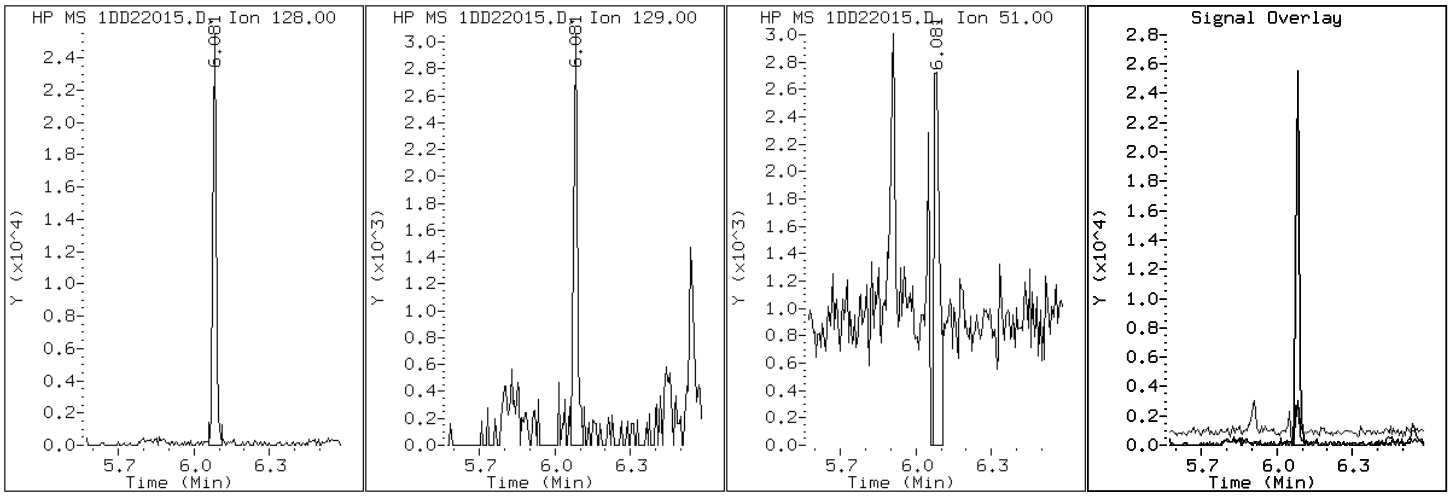
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

2 Naphthalene



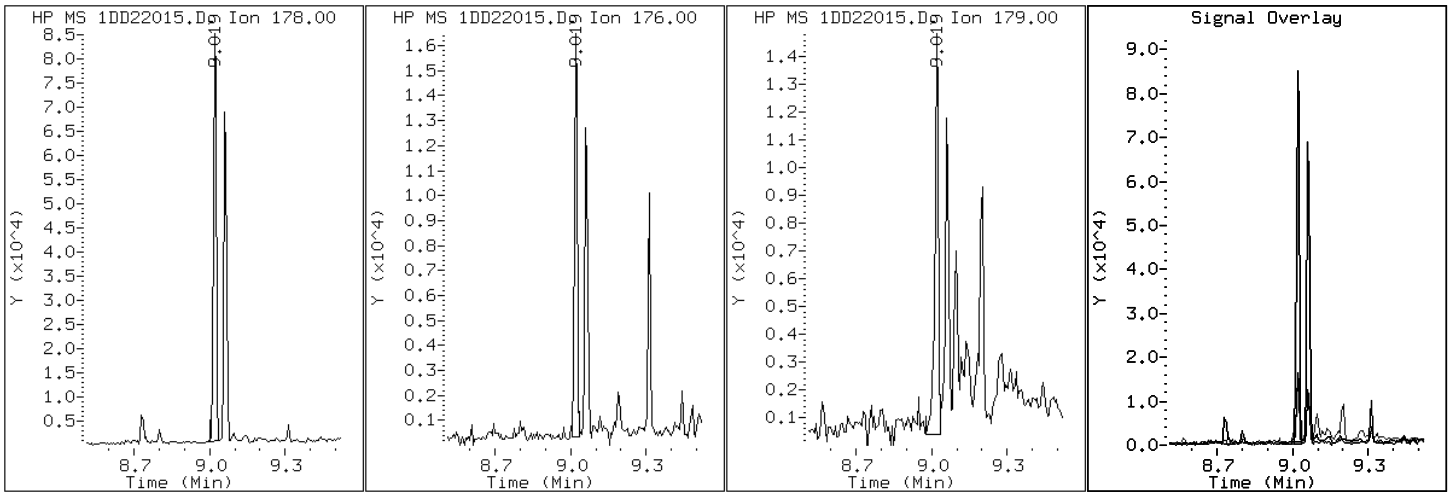
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

10 Phenanthrene



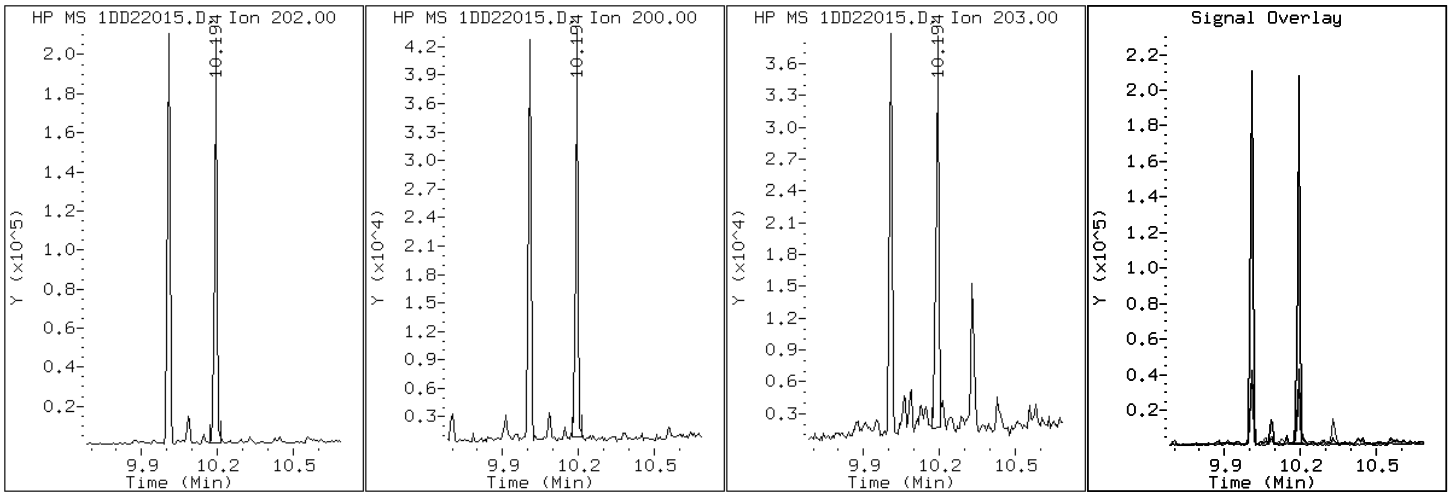
Data File: 1DD22015.D

Date: 22-APR-2013 15:16

Client ID: CV1117A-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-18-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22015.D
Inj. Date and Time: 22-APR-2013 15:16
Instrument ID: BSMSD.i
Client ID: CV1117A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

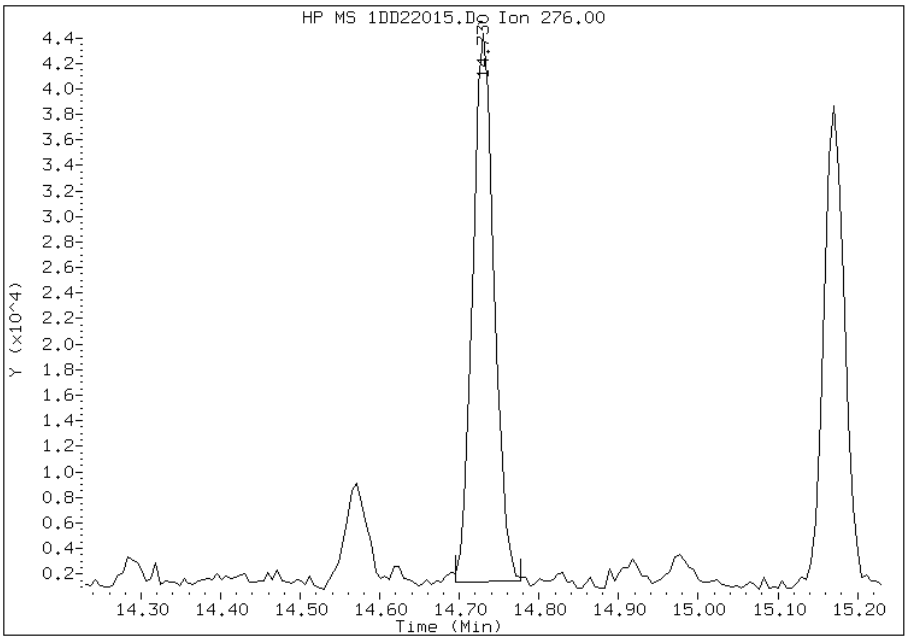
Processing Integration Results

RT: 14.73

Response: 80483

Amount: 1

Conc: 126



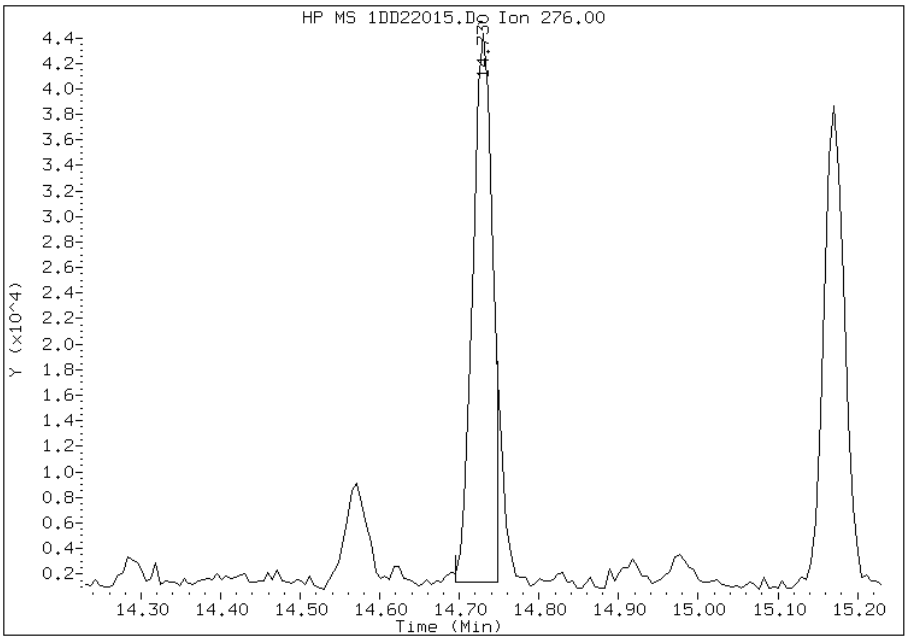
Manual Integration Results

RT: 14.73

Response: 74548

Amount: 1

Conc: 116



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV1117B-CS | Lab Sample ID: 680-89328-19

Matrix: Solid | Lab File ID: 1DD22016.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 15:00

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.00(g) | Date Analyzed: 04/22/2013 15:38

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

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

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	47	J	54	6.7
120-12-7	Anthracene	87		11	5.6
56-55-3	Benzo[a]anthracene	210		11	5.2
50-32-8	Benzo[a]pyrene	200		14	7.0
205-99-2	Benzo[b]fluoranthene	420		16	8.2
191-24-2	Benzo[g,h,i]perylene	110		27	5.9
207-08-9	Benzo[k]fluoranthene	110		11	4.8
218-01-9	Chrysene	280		12	6.0
53-70-3	Dibenz(a,h)anthracene	38		27	5.5
206-44-0	Fluoranthene	400		27	5.4
86-73-7	Fluorene	14	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	110		27	9.5
90-12-0	1-Methylnaphthalene	71		54	5.9
91-57-6	2-Methylnaphthalene	90		54	9.5
91-20-3	Naphthalene	68		54	5.9
85-01-8	Phenanthrene	210		11	5.2
129-00-0	Pyrene	280		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22016.D
Lab Smp Id: 680-89328-A-19-A Client Smp ID: CV1117B-CS
Inj Date : 22-APR-2013 15:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-19-A
Misc Info : 680-89328-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	25.427	% 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	6.060	6.054	(1.000)	1936683	40.0000	
* 6 Acenaphthene-d10	164	7.740	7.734	(1.000)	1130935	40.0000	
* 9 Phenanthrene-d10	188	9.004	8.998	(1.000)	1861790	40.0000	
$ 13 o-Terphenyl	230	9.309	9.309	(1.034)	189020	6.73813	600
* 17 Chrysene-d12	240	11.324	11.307	(1.000)	2200049	40.0000	
* 22 Perylene-d12	264	13.152	13.122	(1.000)	2117933	40.0000	
2 Naphthalene	128	6.084	6.077	(1.004)	36869	0.76591	68
3 2-Methylnaphthalene	142	6.789	6.783	(1.120)	31310	1.00759	90
4 1-Methylnaphthalene	142	6.883	6.877	(1.136)	23293	0.79377	71
5 Acenaphthylene	152	7.611	7.611	(0.983)	24964	0.52154	47
8 Fluorene	166	8.210	8.204	(1.061)	5602	0.16011	14
10 Phenanthrene	178	9.021	9.015	(1.002)	122961	2.39772	210
11 Anthracene	178	9.062	9.056	(1.007)	49565	0.97379	87
12 Carbazole	167	9.203	9.197	(1.022)	15185	0.33822	30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.008	10.002	(1.112)	235773	4.46776	400
15 Pyrene	202	10.196	10.184	(0.900)	209441	3.17012	280
16 Benzo(a)anthracene	228	11.307	11.289	(0.998)	150195	2.36127	210
18 Chrysene	228	11.342	11.330	(1.002)	187629	3.14594	280
19 Benzo(b)fluoranthene	252	12.605	12.582	(0.958)	246458	4.65837	420
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	69207	1.24167	110
21 Benzo(a)pyrene	252	13.052	13.034	(0.992)	116641	2.19420	200
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.709	(1.120)	67984	1.19937	110(M)
24 Dibenzo(a,h)anthracene	278	14.756	14.732	(1.122)	22972	0.43037	38
25 Benzo(g,h,i)perylene	276	15.173	15.143	(1.154)	64800	1.18730	110

QC Flag Legend

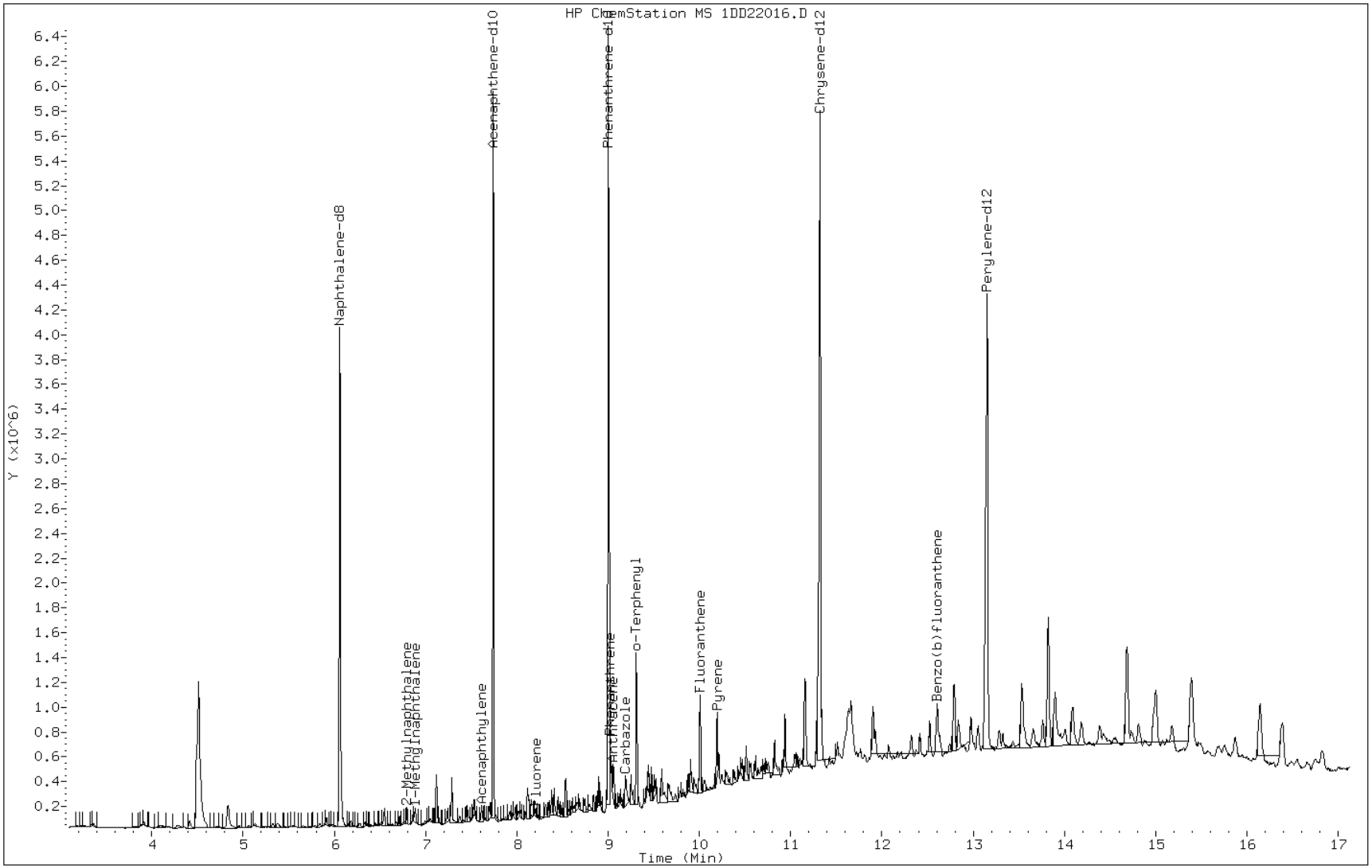
M - Compound response manually integrated.

Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC



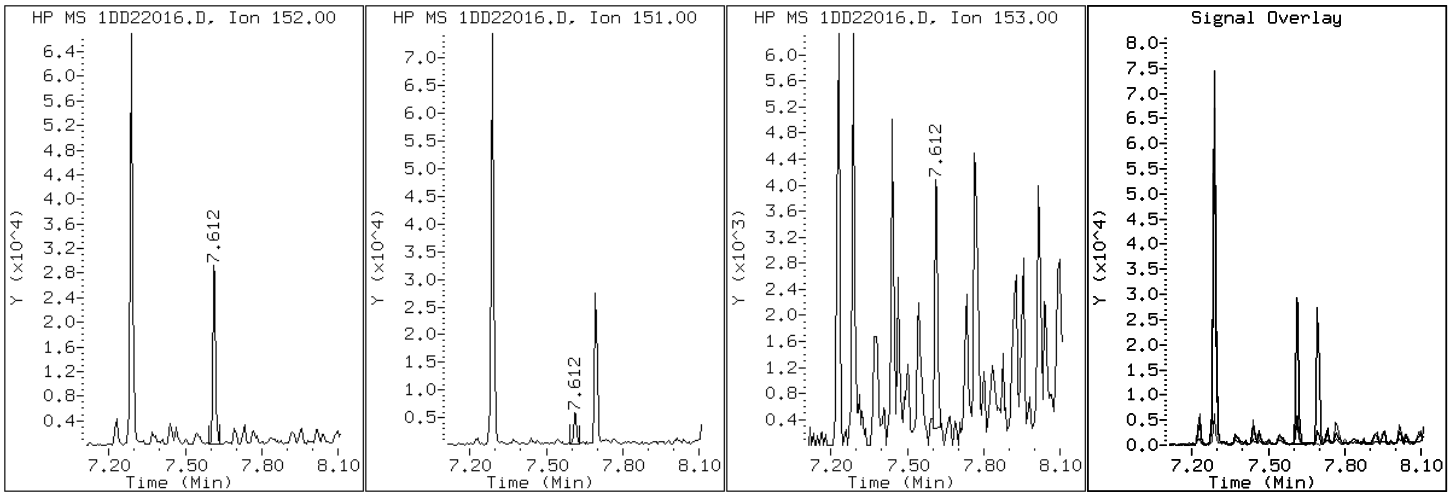
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

5 Acenaphthylene



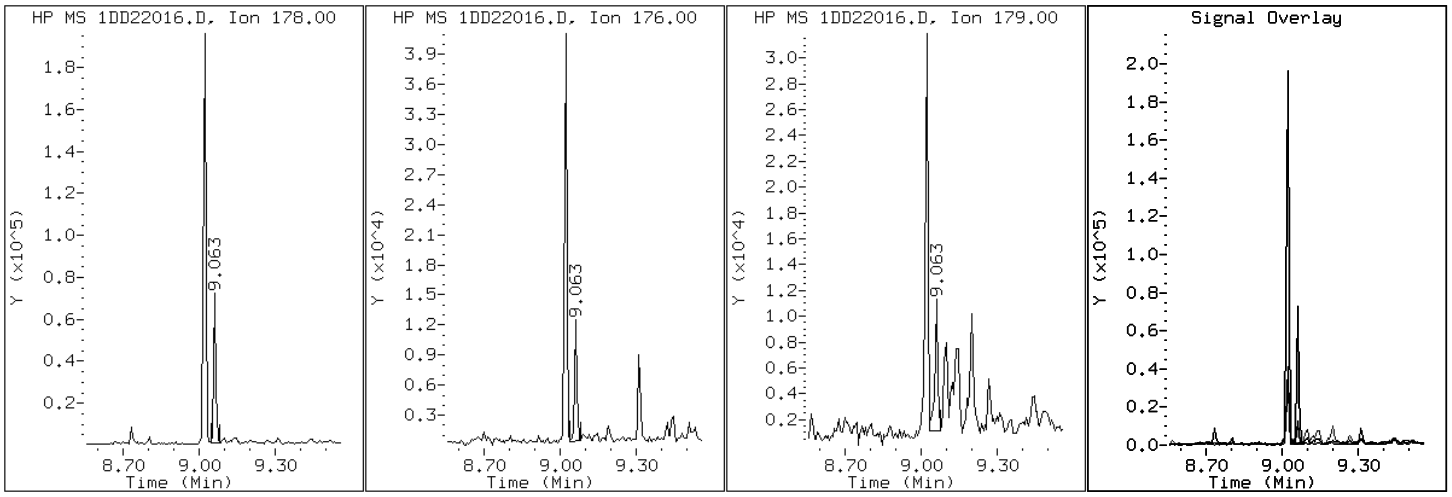
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

11 Anthracene



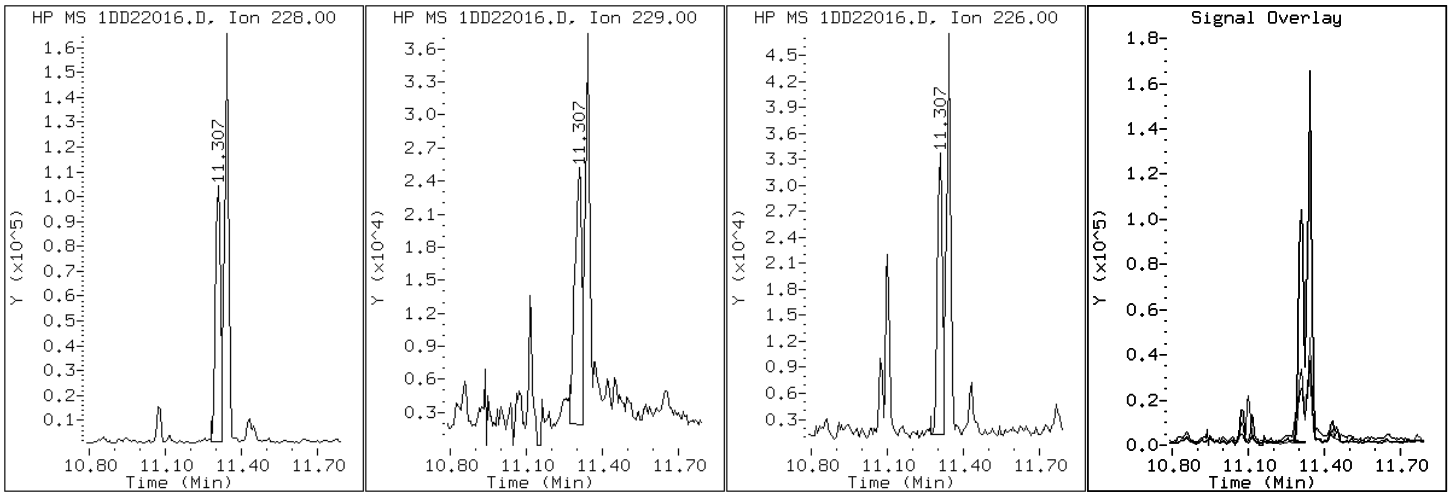
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

16 Benzo(a)anthracene



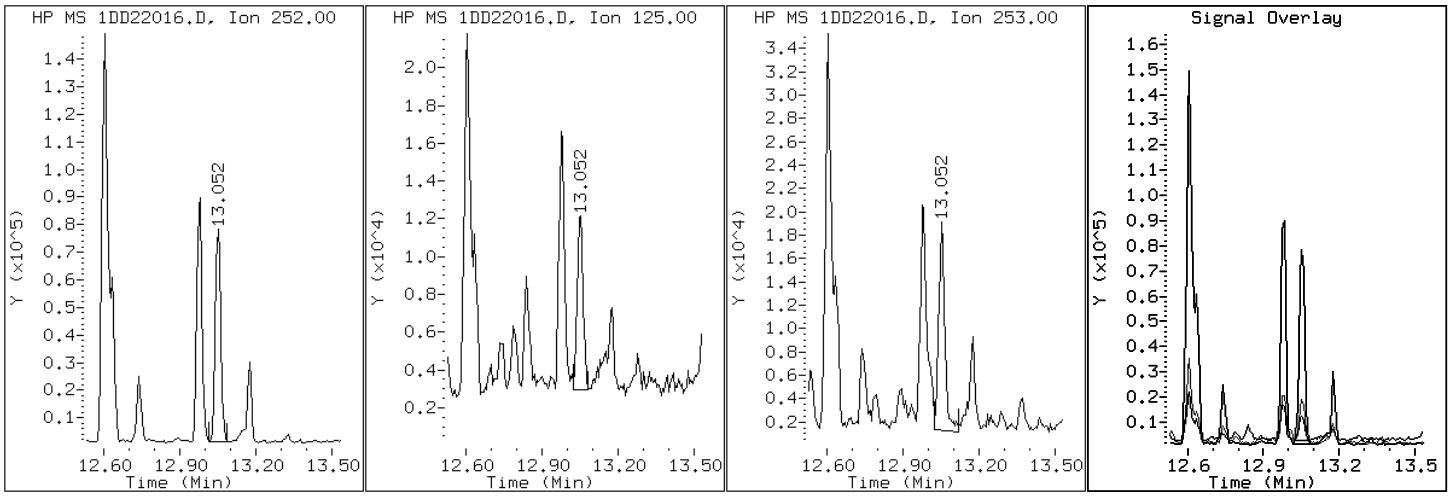
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

21 Benzo(a)pyrene



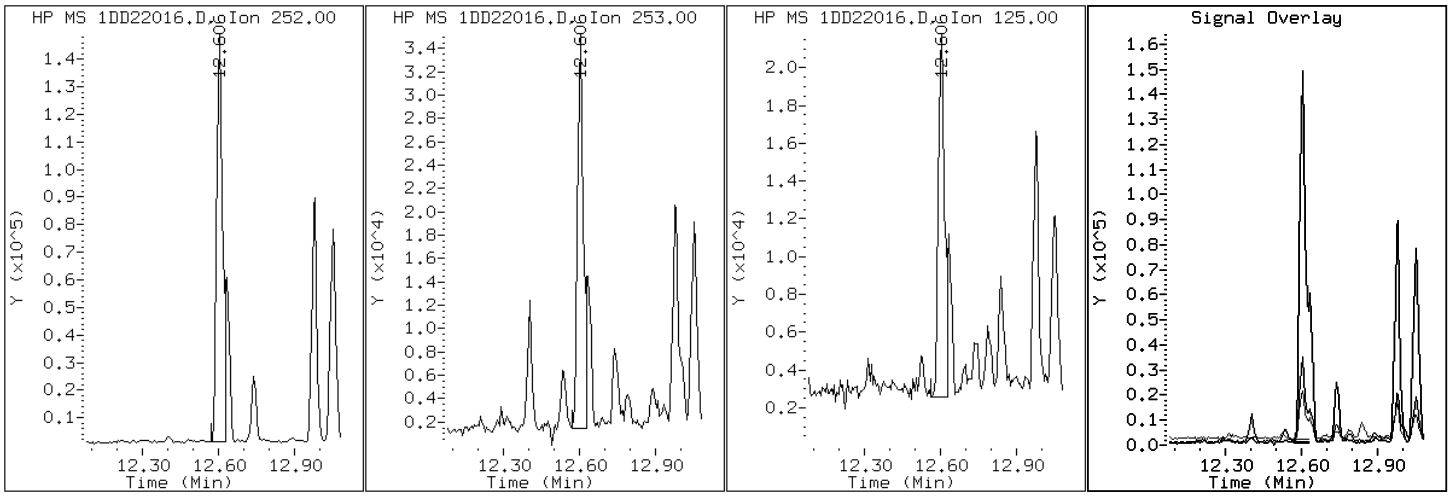
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

19 Benzo(b)fluoranthene



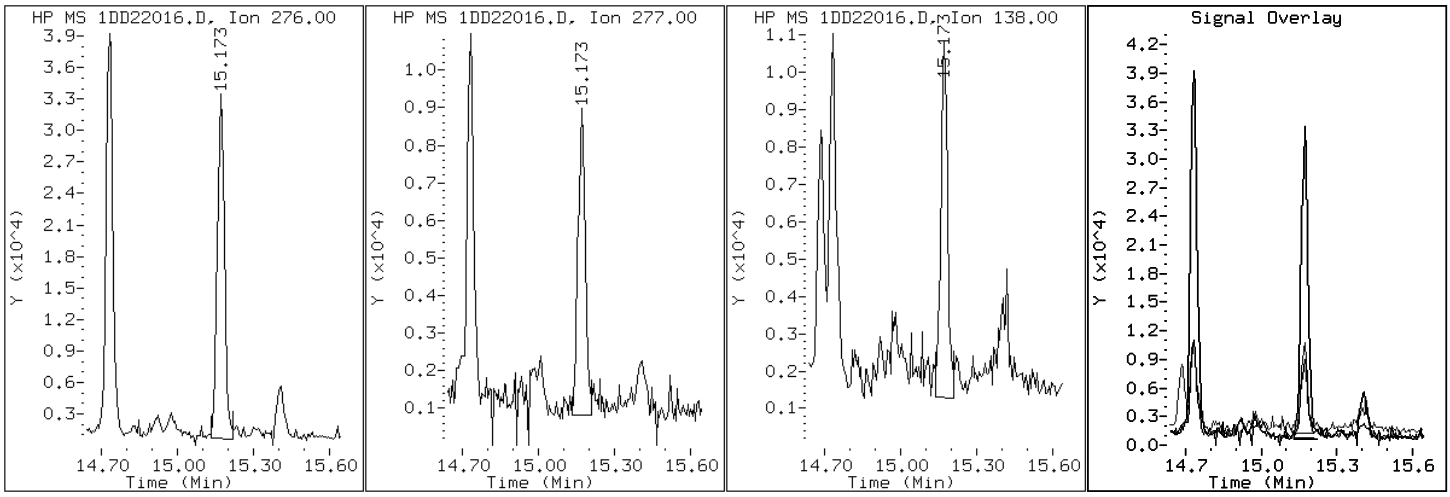
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

25 Benzo(g,h,i)perylene



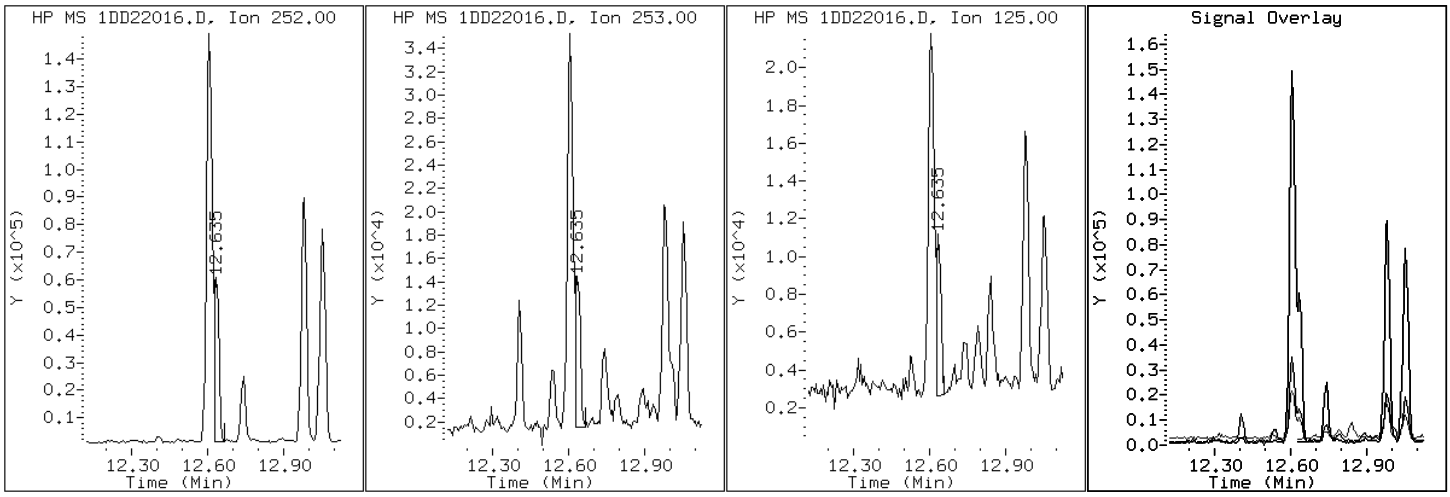
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

20 Benzo(k)fluoranthene



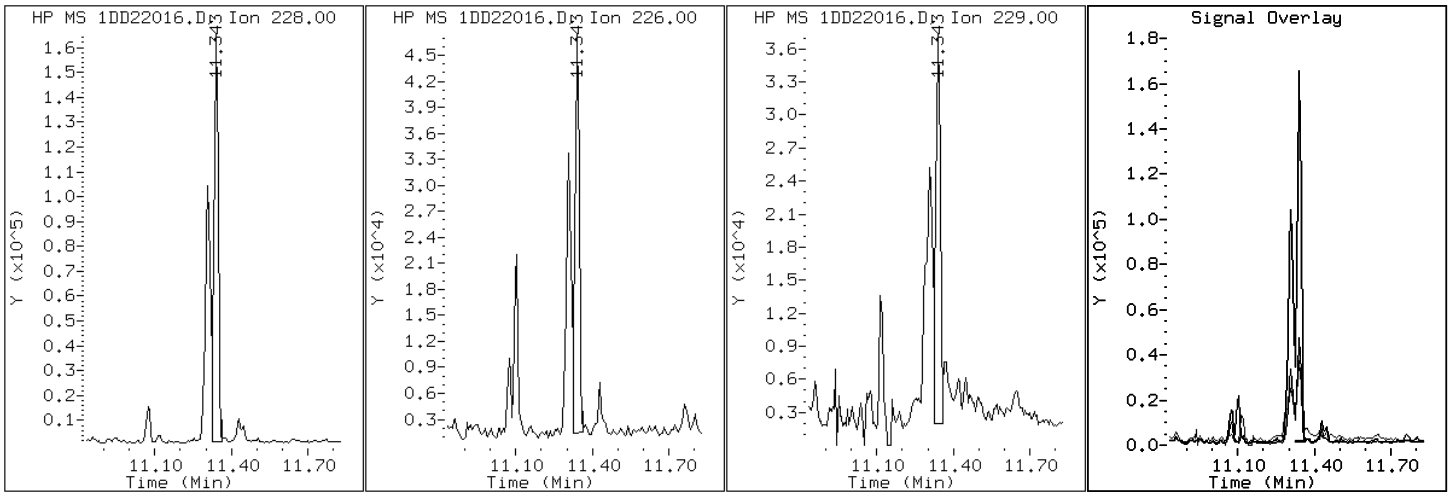
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

18 Chrysene



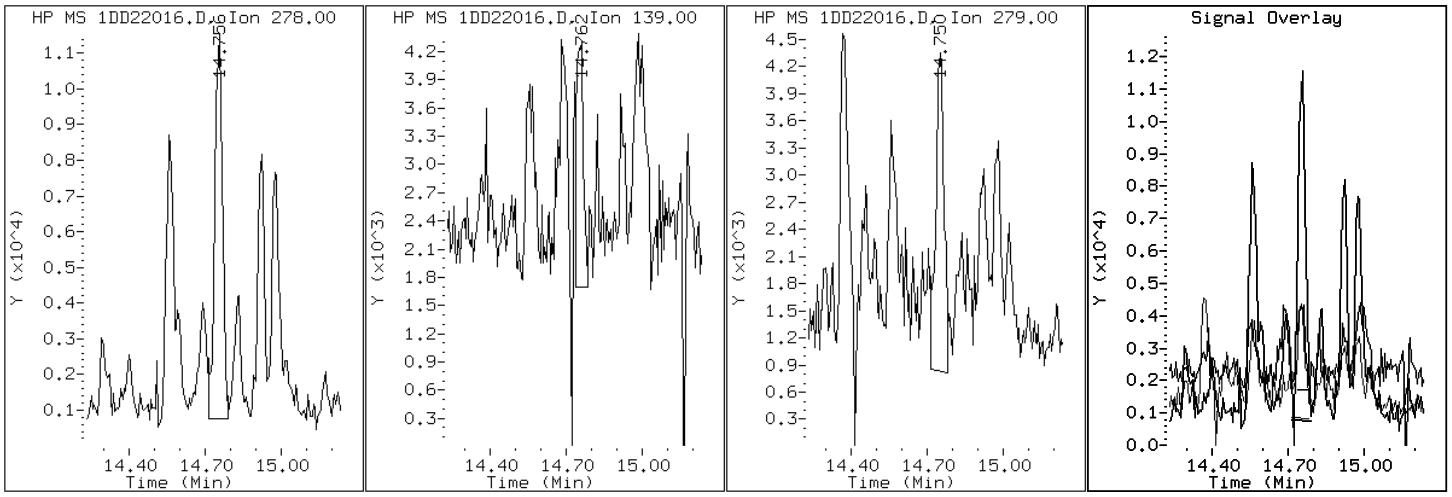
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

24 Dibenzo(a,h)anthracene



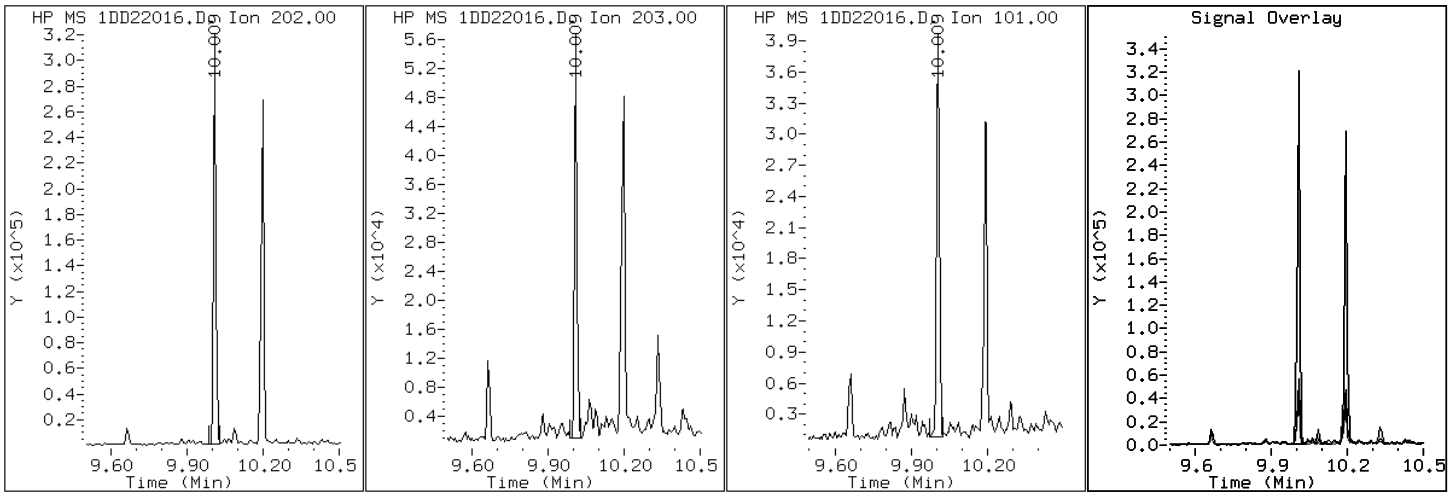
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

14 Fluoranthene



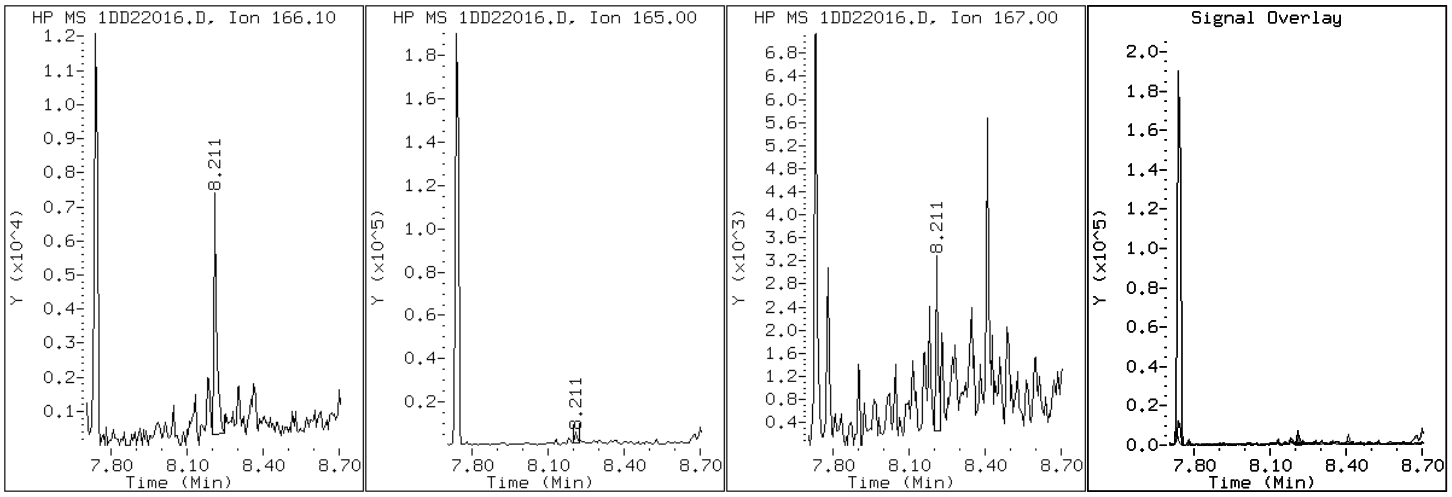
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

8 Fluorene



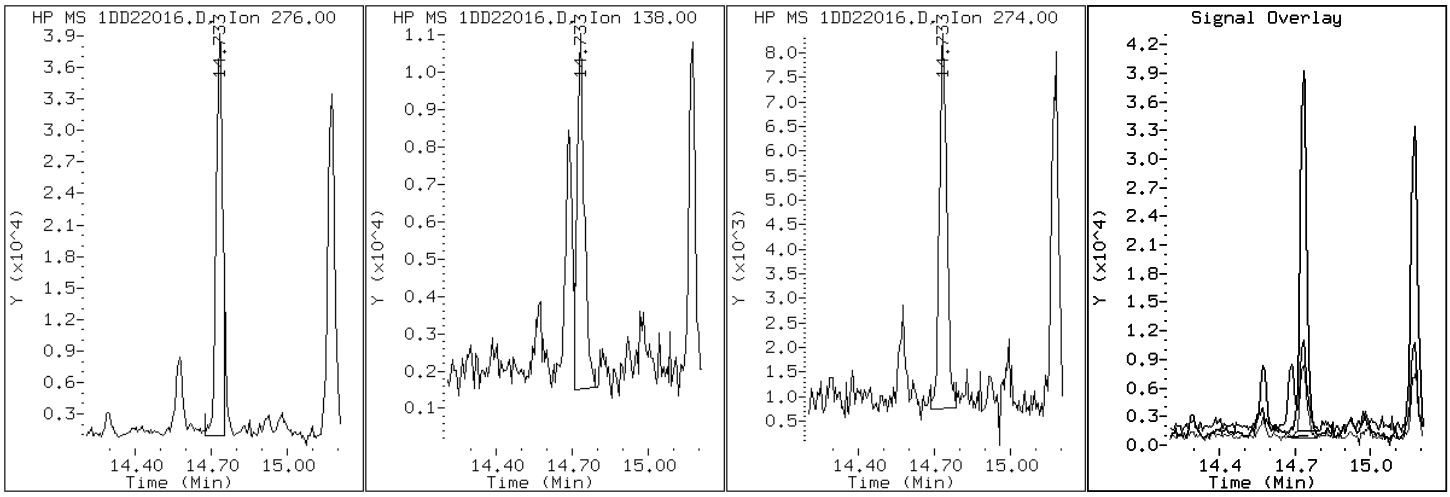
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

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



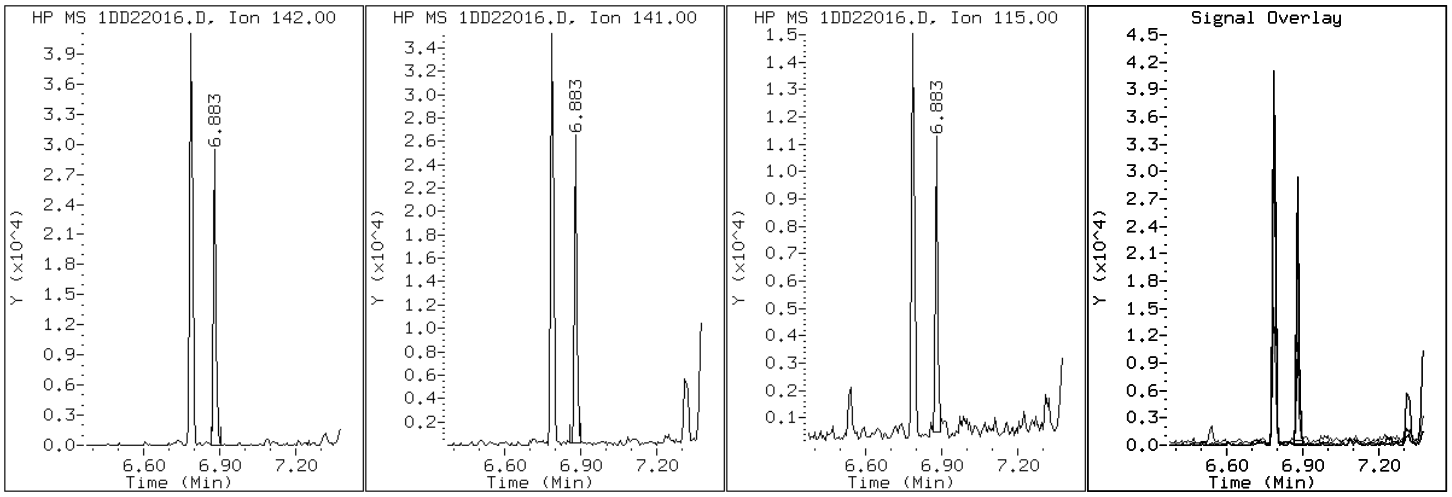
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

4 1-Methylnaphthalene



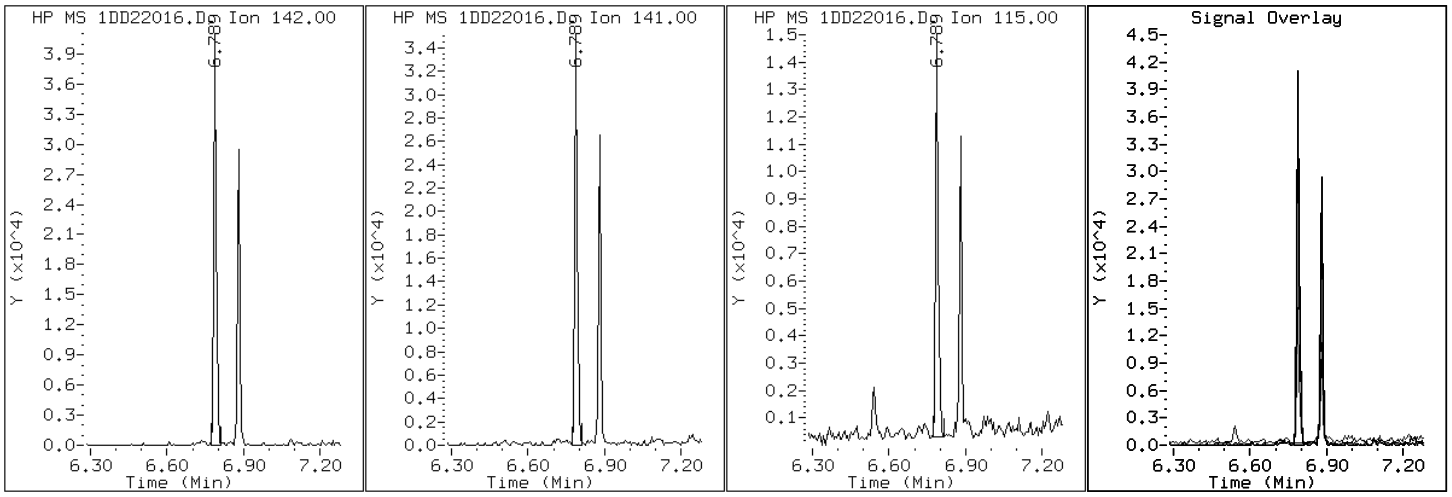
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

3 2-Methylnaphthalene



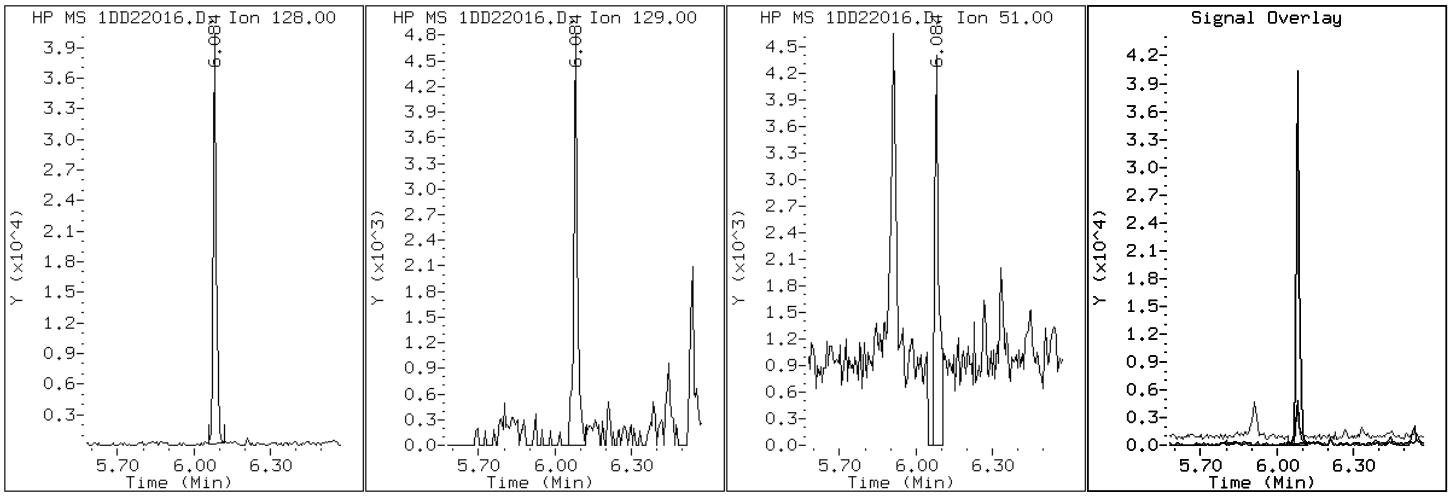
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

2 Naphthalene



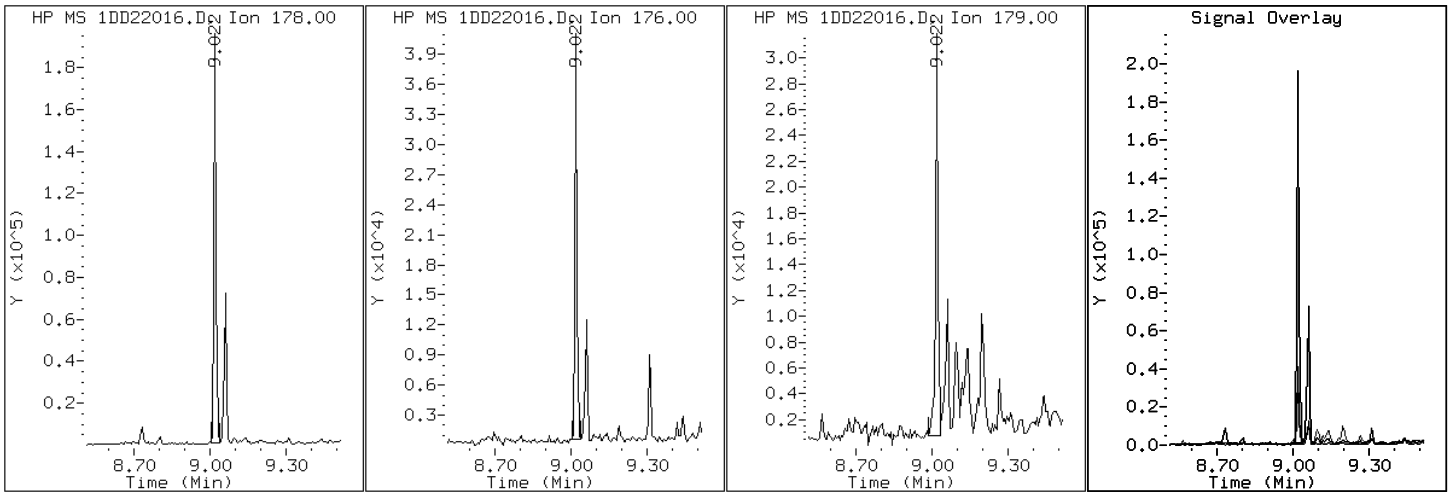
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

10 Phenanthrene



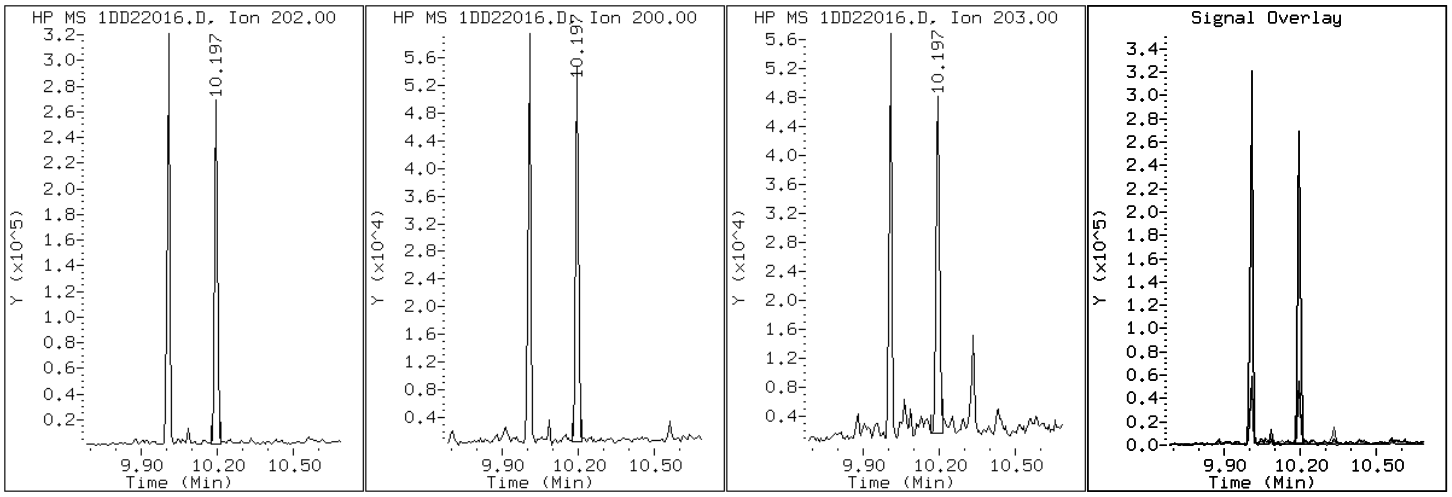
Data File: 1DD22016.D

Date: 22-APR-2013 15:38

Client ID: CV1117B-CS Instrument: BSMSD.i

Sample Info: 680-89328-A-19-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22016.D
Inj. Date and Time: 22-APR-2013 15:38
Instrument ID: BSMSD.i
Client ID: CV1117B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

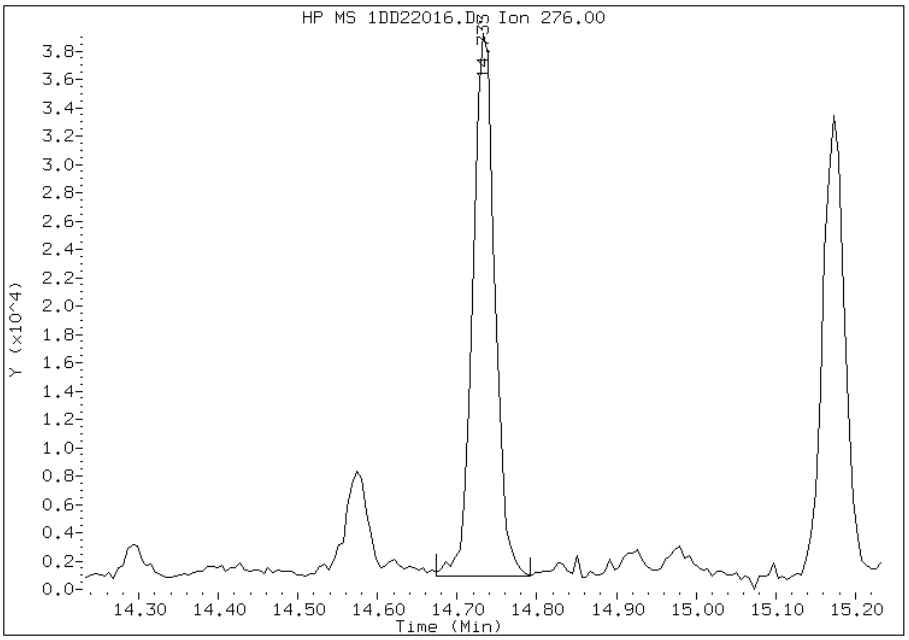
Processing Integration Results

RT: 14.73

Response: 73278

Amount: 1

Conc: 116



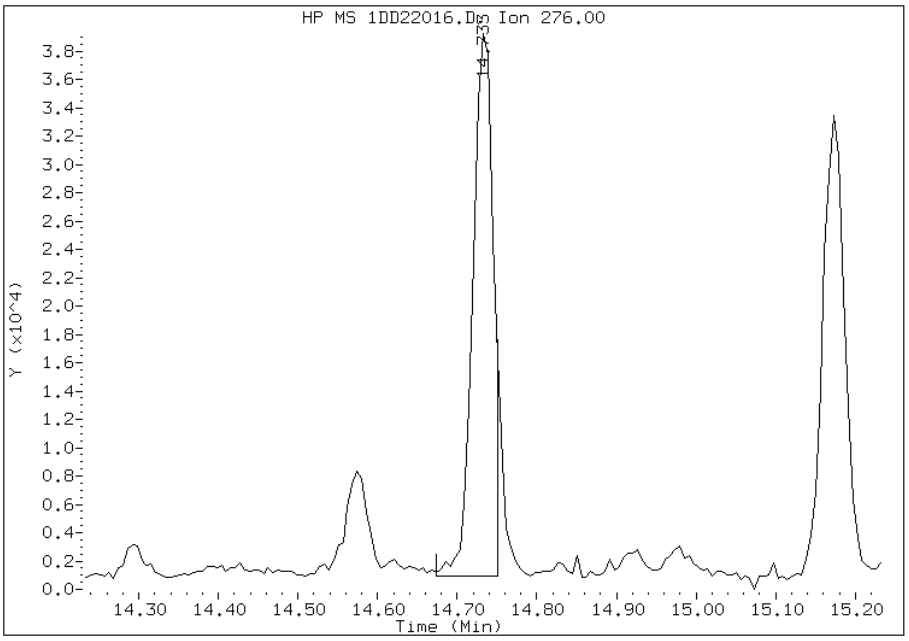
Manual Integration Results

RT: 14.73

Response: 67984

Amount: 1

Conc: 107



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: CV1117C-GS | Lab Sample ID: 680-89328-20

Matrix: Solid | Lab File ID: 1DD22017.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 15:10

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.01(g) | Date Analyzed: 04/22/2013 16:01

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

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

% Moisture: 31.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	69	J	230	29
120-12-7	Anthracene	73		49	25
56-55-3	Benzo[a]anthracene	210		47	23
50-32-8	Benzo[a]pyrene	200		61	30
205-99-2	Benzo[b]fluoranthene	480		71	36
191-24-2	Benzo[g,h,i]perylene	170		120	26
207-08-9	Benzo[k]fluoranthene	120		47	21
218-01-9	Chrysene	380		53	26
53-70-3	Dibenz(a,h)anthracene	55	J	120	24
206-44-0	Fluoranthene	300		120	23
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	130		120	42
90-12-0	1-Methylnaphthalene	150	J	230	26
91-57-6	2-Methylnaphthalene	180	J	230	42
91-20-3	Naphthalene	110	J	230	26
85-01-8	Phenanthrene	310		47	23
129-00-0	Pyrene	220		120	22

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22017.D
Lab Smp Id: 680-89328-A-20-A Client Smp ID: CV1117C-GS
Inj Date : 22-APR-2013 16:01
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-20-A
Misc Info : 680-89328-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	31.681	% 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	6.063	6.054	(1.000)	2054922	40.0000	
* 6 Acenaphthene-d10	164	7.744	7.734	(1.000)	1198128	40.0000	
* 9 Phenanthrene-d10	188	9.007	8.998	(1.000)	2004536	40.0000	
$ 13 o-Terphenyl	230	9.312	9.309	(1.034)	45118	1.49382	580
* 17 Chrysene-d12	240	11.322	11.307	(1.000)	2343515	40.0000	
* 22 Perylene-d12	264	13.149	13.122	(1.000)	2224693	40.0000	
2 Naphthalene	128	6.081	6.077	(1.003)	14157	0.27717	110
3 2-Methylnaphthalene	142	6.792	6.783	(1.120)	15533	0.47111	180
4 1-Methylnaphthalene	142	6.880	6.877	(1.135)	11911	0.38254	150
5 Acenaphthylene	152	7.614	7.611	(0.983)	8949	0.17647	69
8 Fluorene	166	8.214	8.204	(1.061)	1790	0.04829	19(Q)
10 Phenanthrene	178	9.018	9.015	(1.001)	44353	0.80329	310
11 Anthracene	178	9.060	9.056	(1.006)	10235	0.18676	73
12 Carbazole	167	9.207	9.197	(1.022)	6375	0.13188	51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.006	10.002	(1.111)	43184	0.76004	300
15 Pyrene	202	10.194	10.184	(0.900)	38917	0.55299	220
16 Benzo(a)anthracene	228	11.304	11.289	(0.998)	36500	0.53870	210
18 Chrysene	228	11.339	11.330	(1.002)	62192	0.97893	380
19 Benzo(b)fluoranthene	252	12.603	12.582	(0.958)	67880	1.22145	480
20 Benzo(k)fluoranthene	252	12.632	12.623	(0.961)	17827	0.30449	120
21 Benzo(a)pyrene	252	13.049	13.034	(0.992)	28773	0.51529	200
23 Indeno(1,2,3-cd)pyrene	276	14.724	14.709	(1.120)	19244	0.32321	130(M)
24 Dibenzo(a,h)anthracene	278	14.753	14.732	(1.122)	7933	0.14149	55
25 Benzo(g,h,i)perylene	276	15.164	15.143	(1.153)	25176	0.43915	170(M)

QC Flag Legend

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

Data File: 1DD22017.D

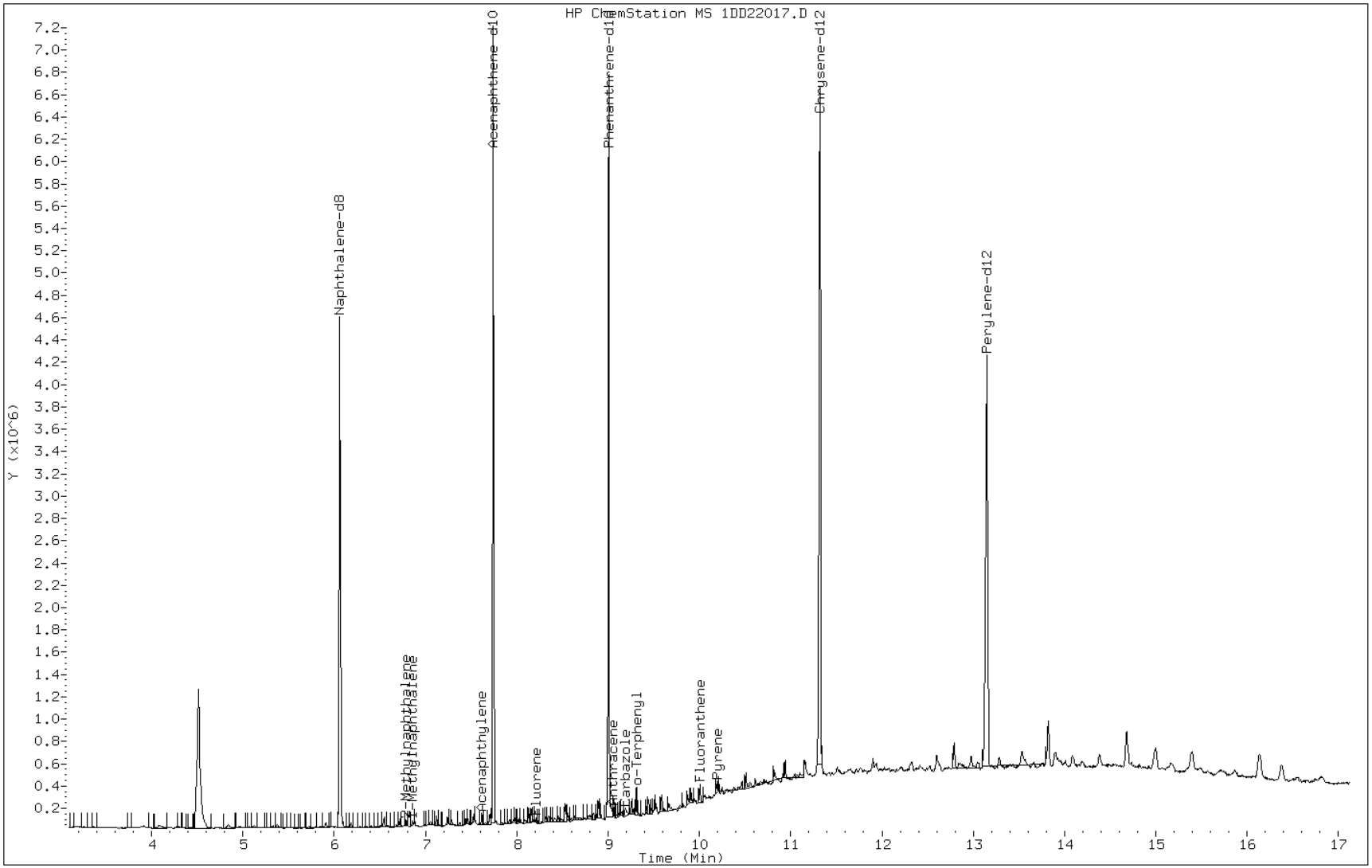
Date: 22-APR-2013 16:01

Client ID: CV1117C-GS

Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A

Operator: SCC



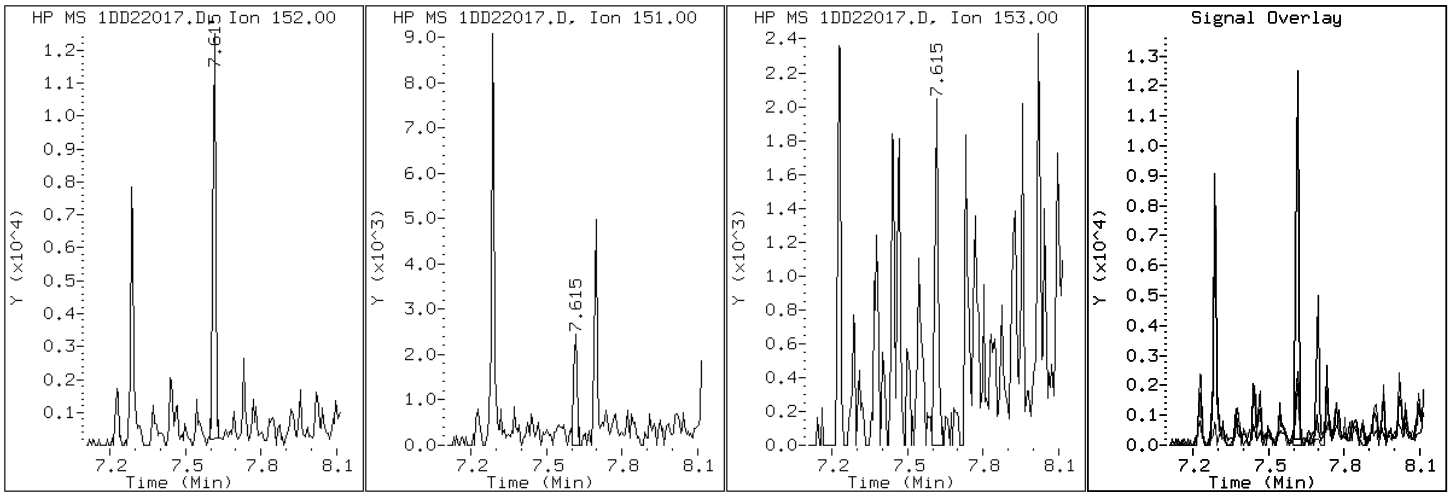
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

5 Acenaphthylene



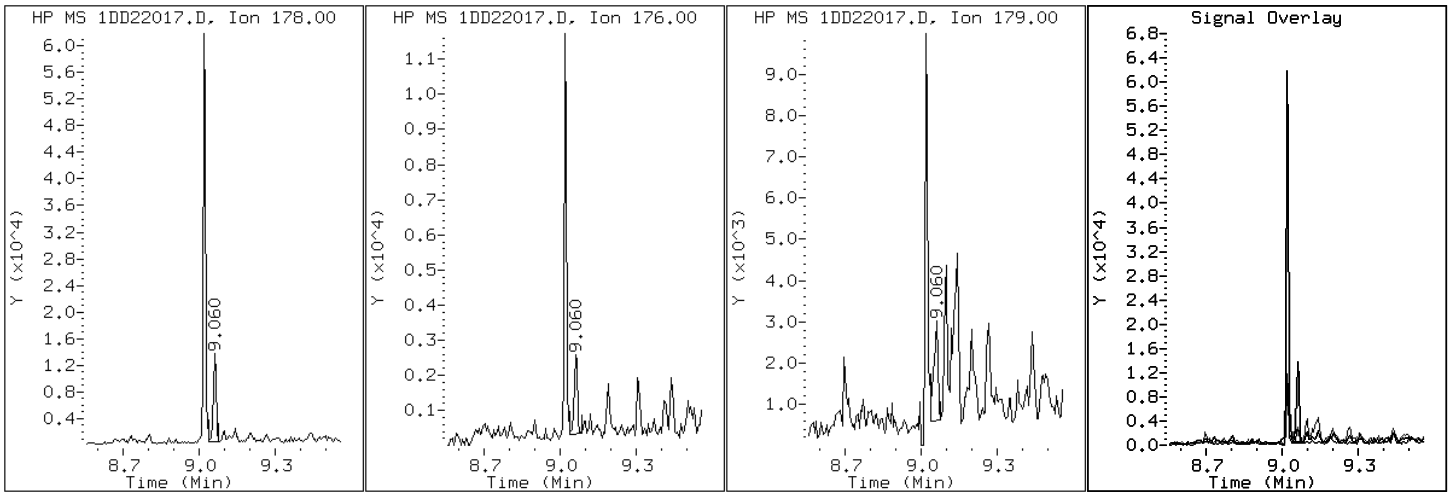
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

11 Anthracene



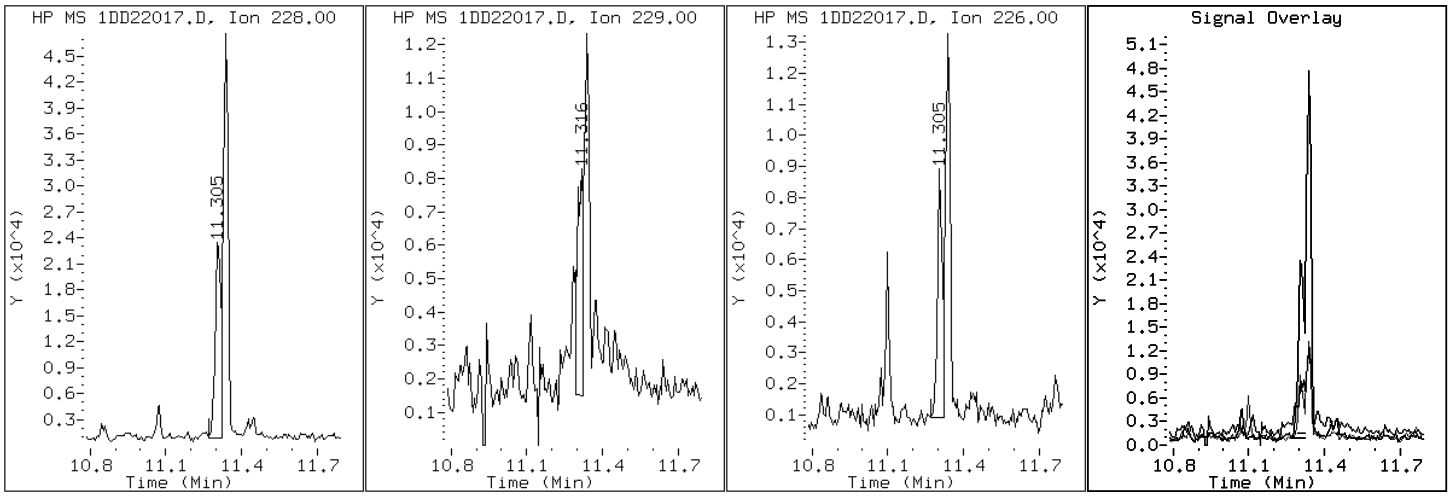
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

16 Benzo(a)anthracene



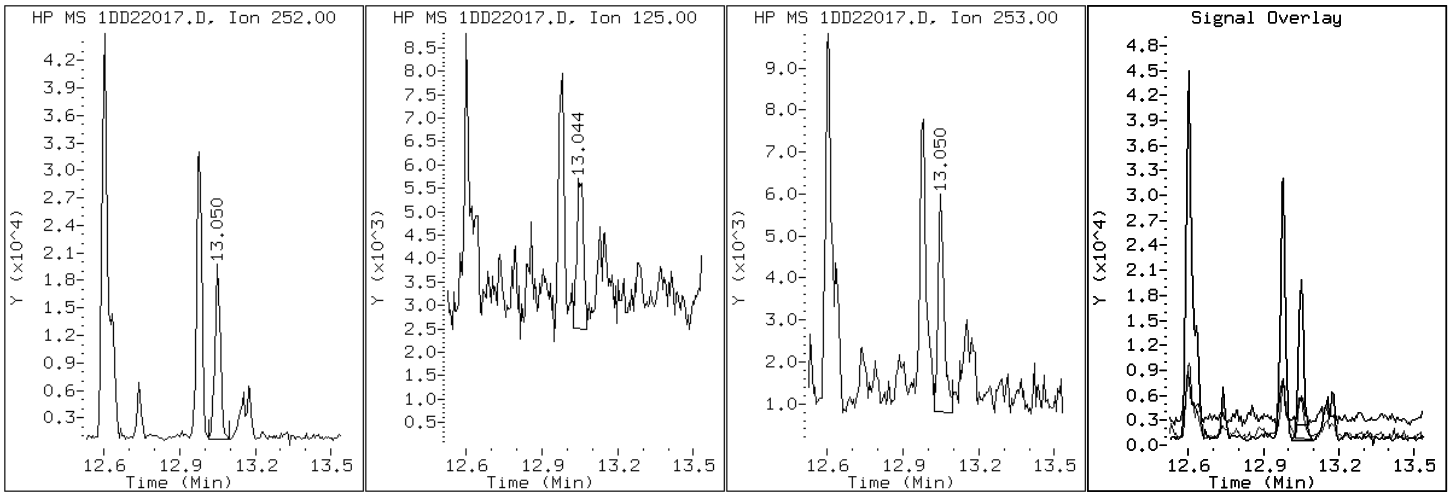
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

21 Benzo(a)pyrene



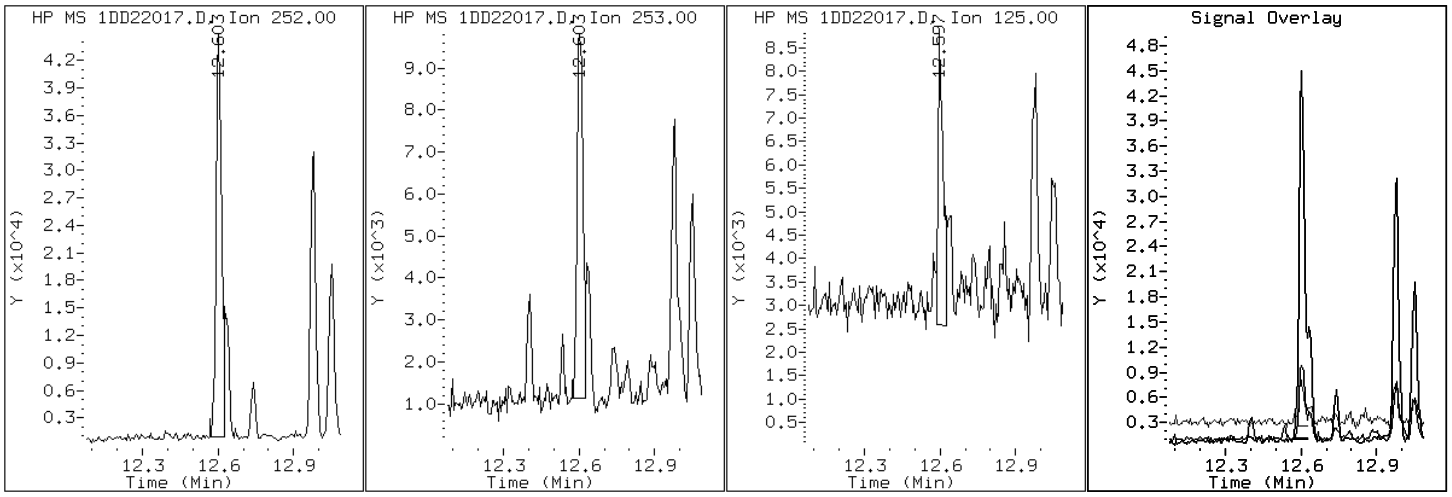
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

19 Benzo(b)fluoranthene



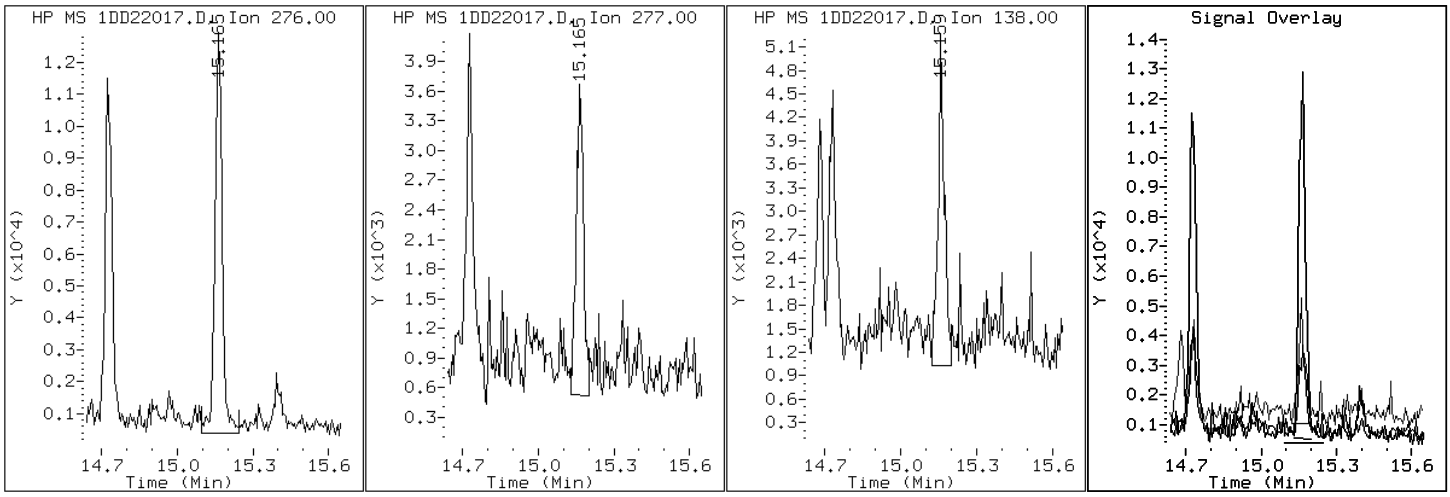
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

25 Benzo(g,h,i)perylene



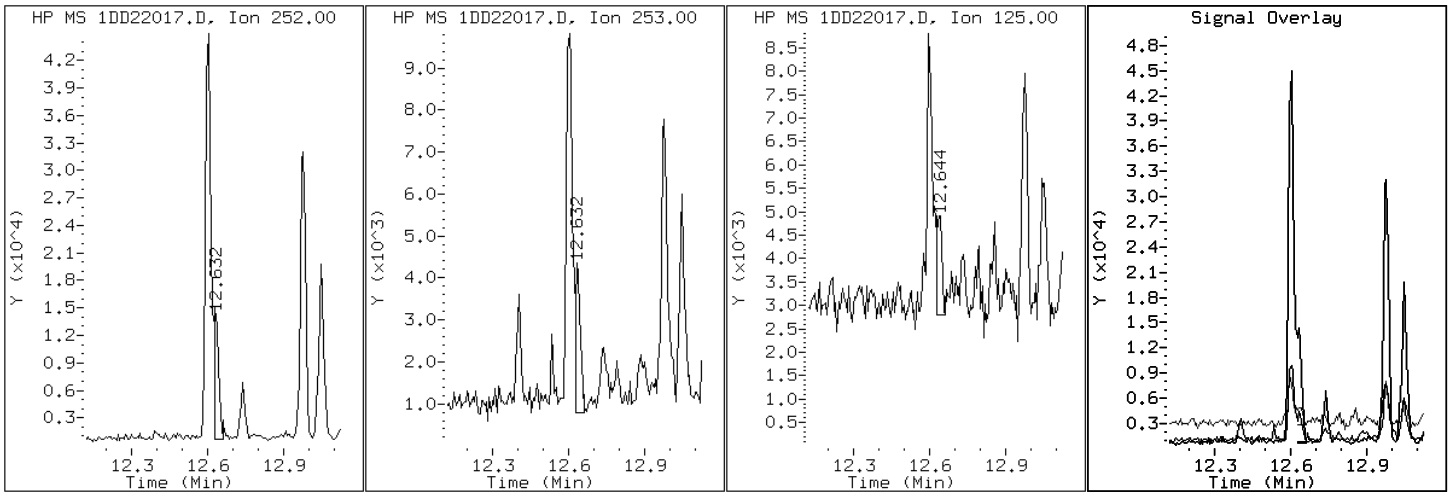
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

20 Benzo(k)fluoranthene



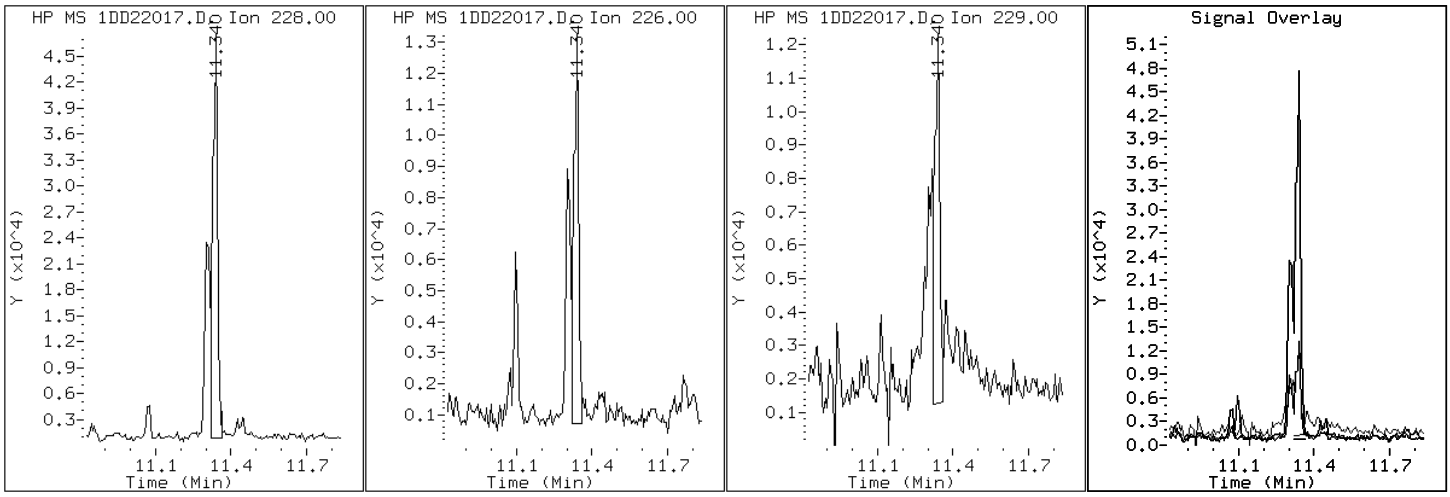
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

18 Chrysene



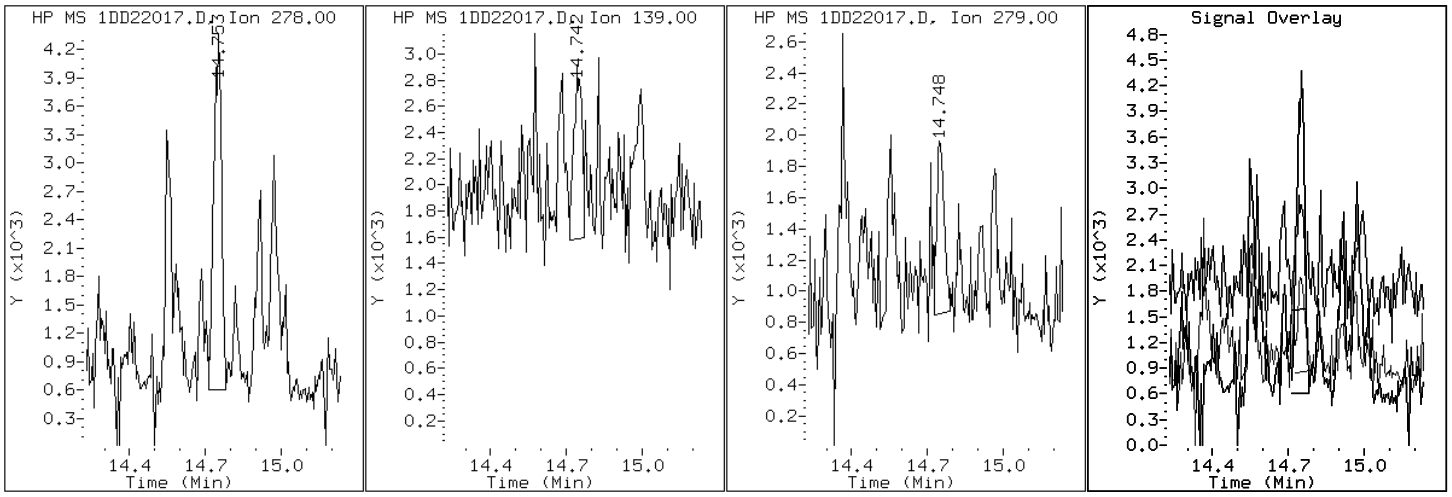
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

24 Dibenzo(a,h)anthracene



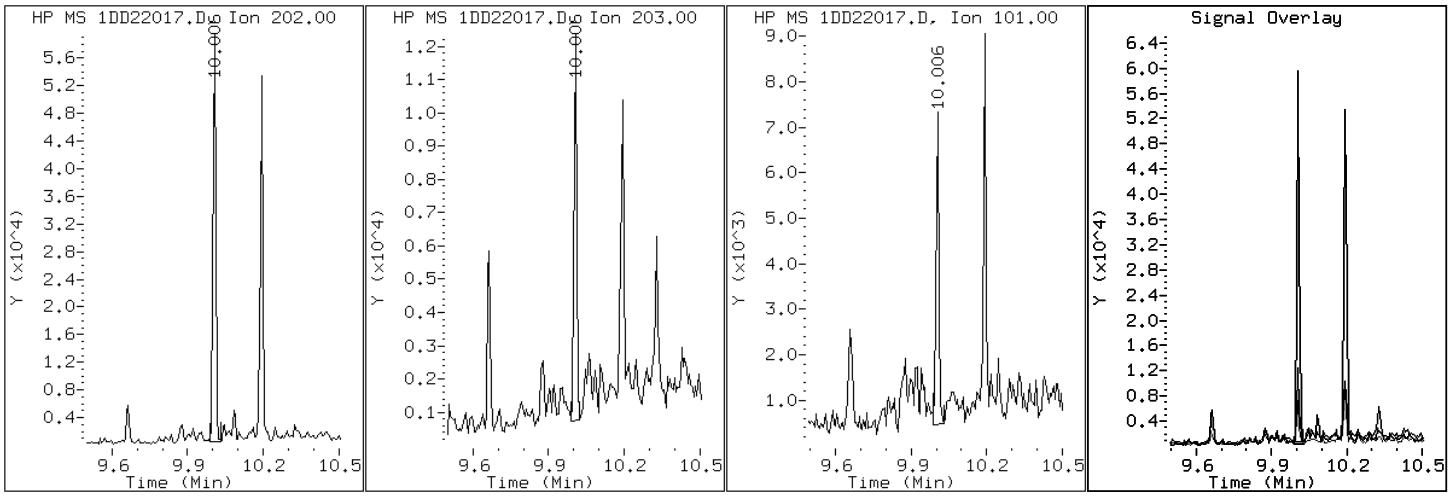
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

14 Fluoranthene



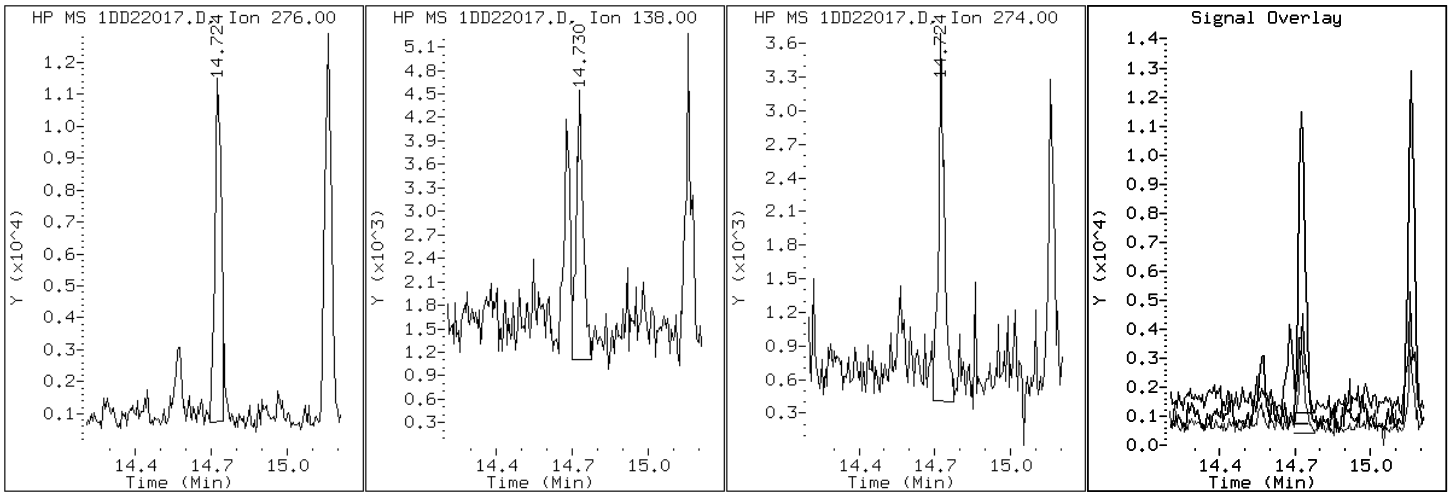
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

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



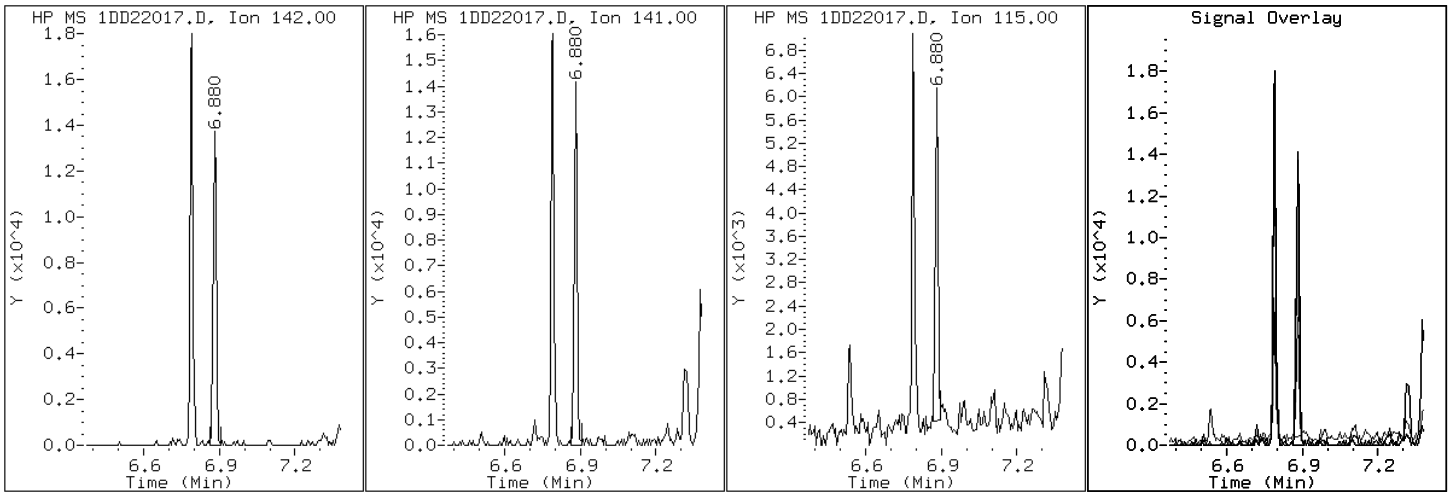
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

4 1-Methylnaphthalene



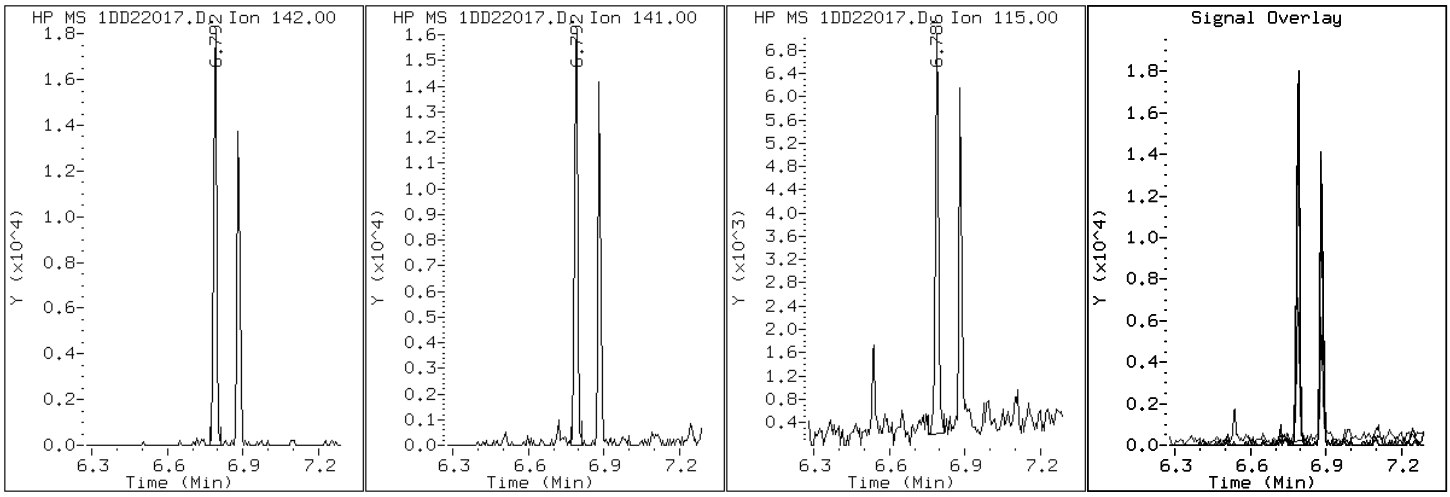
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

3 2-Methylnaphthalene



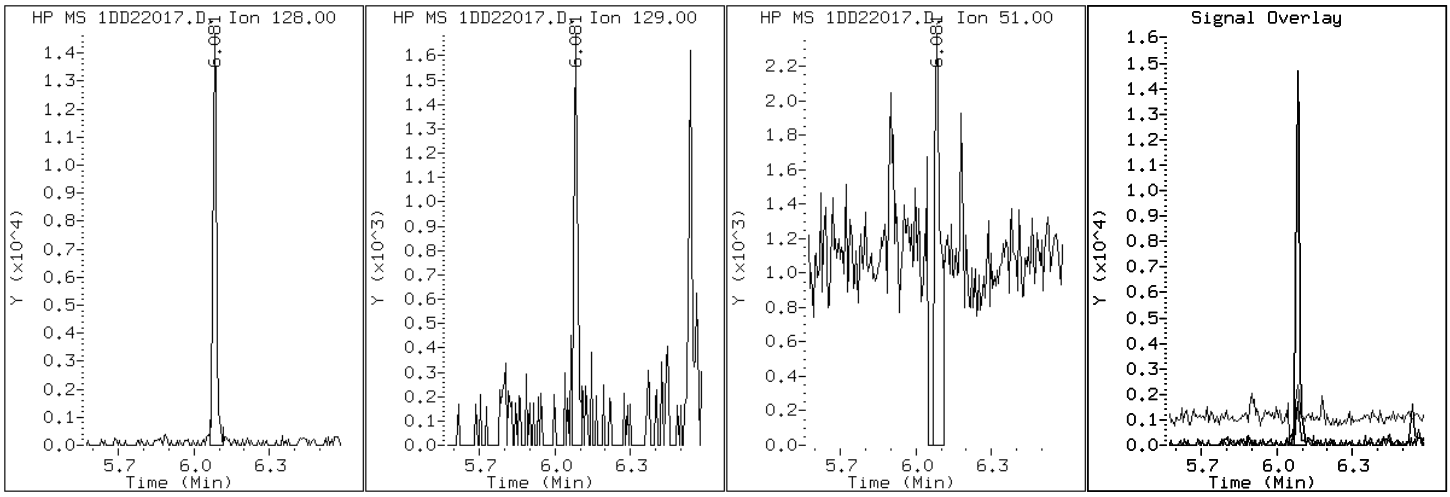
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

2 Naphthalene



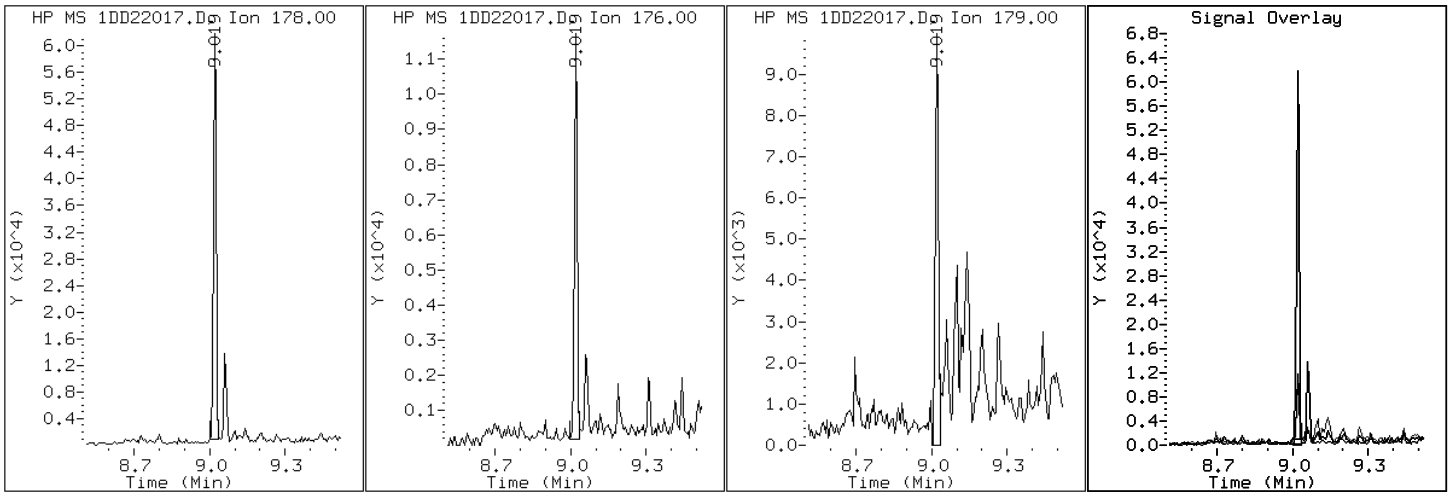
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

10 Phenanthrene



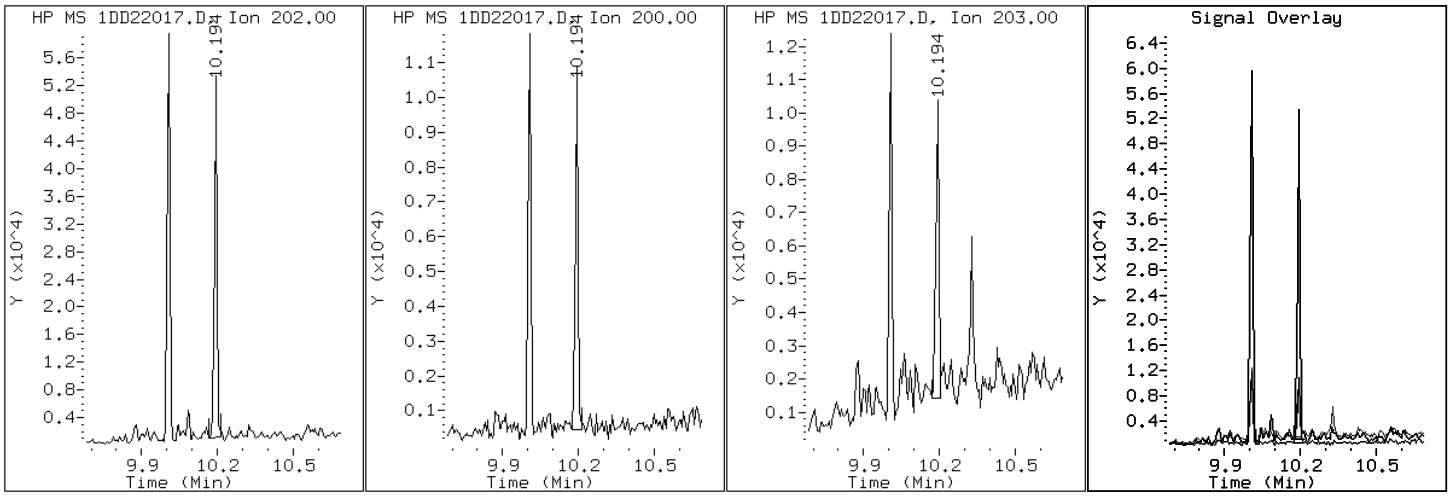
Data File: 1DD22017.D

Date: 22-APR-2013 16:01

Client ID: CV1117C-GS Instrument: BSMSD.i

Sample Info: 680-89328-A-20-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22017.D
Inj. Date and Time: 22-APR-2013 16:01
Instrument ID: BSMSD.i
Client ID: CV1117C-GS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/23/2013

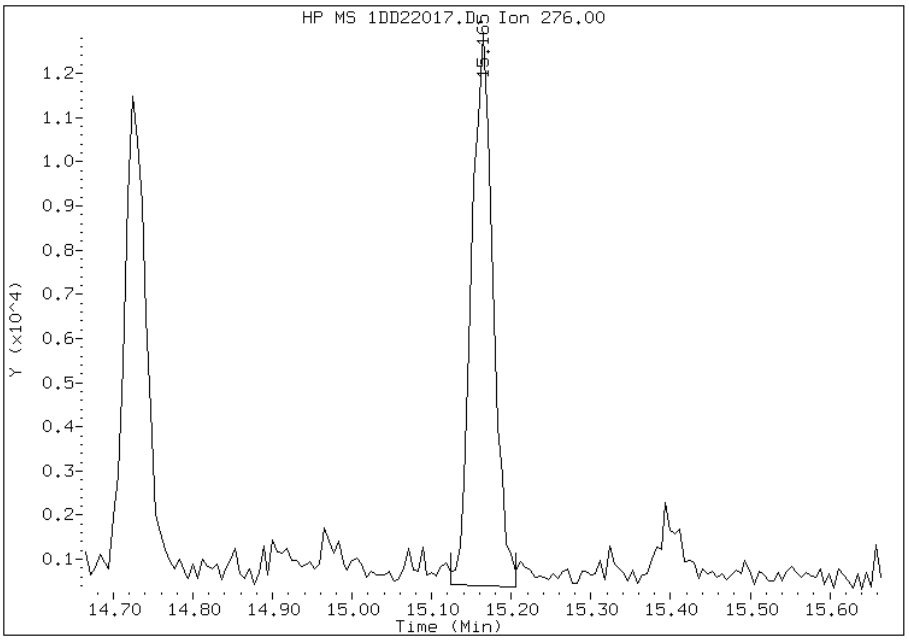
Processing Integration Results

RT: 15.16

Response: 23513

Amount: 0

Conc: 160



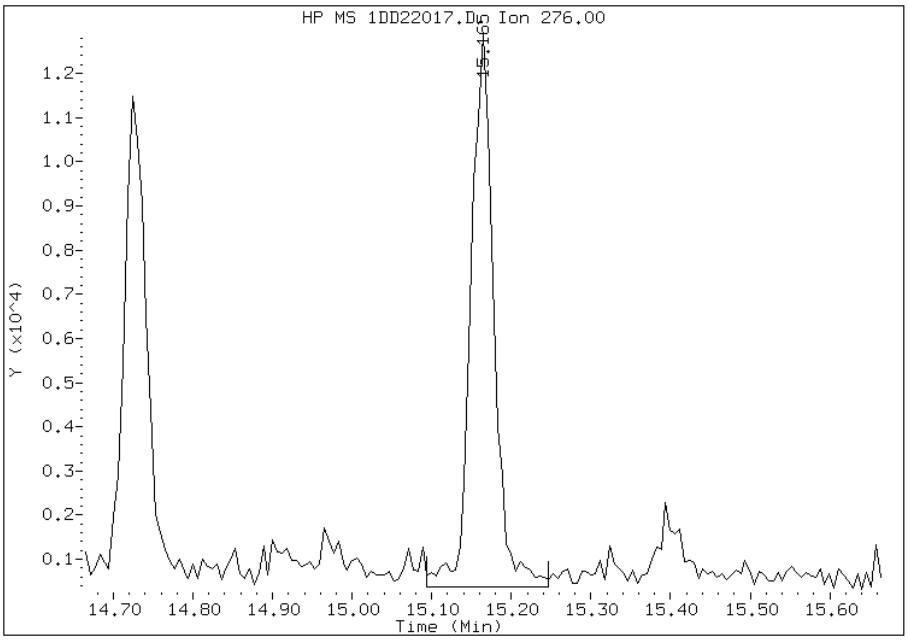
Manual Integration Results

RT: 15.16

Response: 25176

Amount: 0

Conc: 171



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD22017.D
Inj. Date and Time: 22-APR-2013 16:01
Instrument ID: BSMSD.i
Client ID: CV1117C-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

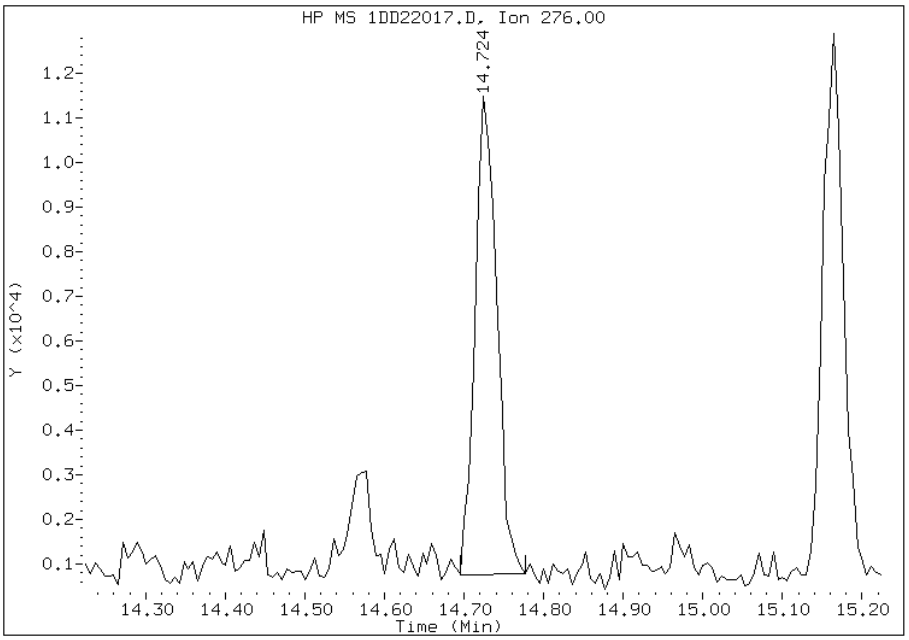
Processing Integration Results

RT: 14.72

Response: 20193

Amount: 0

Conc: 132



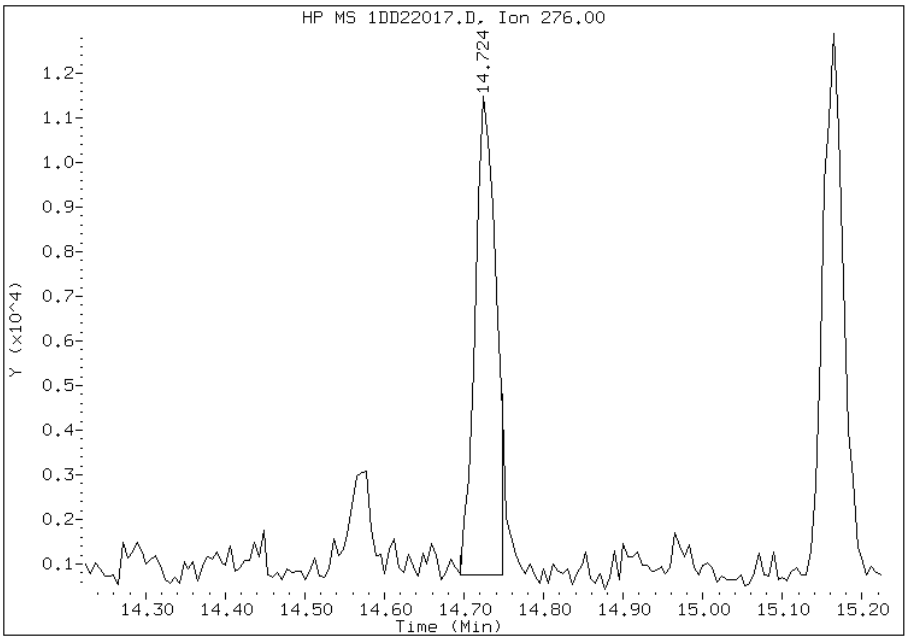
Manual Integration Results

RT: 14.72

Response: 19244

Amount: 0

Conc: 126



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:00
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1 Analy Batch No.: 136370

SDG No.: 68089328-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.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	1.0403 1.0845	1.1154 1.0398	1.1255	1.0833	1.0799	Ave		1.0813			0.0000	3.1		15.0			
2-Methylnaphthalene	0.4518 0.7139	0.7915 0.7215	0.6274	0.6964	0.7086	Lin	0.0068	0.7231			0.0000				0.9998		0.9900
1-Methylnaphthalene	0.8501 0.6677	0.6263 0.6578	0.7166	0.6190	0.6973	Ave		0.6907			0.0000	11.4		15.0			
Acenaphthylene	1.6419 1.8703	1.3506 1.6568	1.8874	1.7159	1.7417	Ave		1.6949			0.0000	10.6		15.0			
Acenaphthene	0.9825 1.0658	0.8838 1.0336	1.0463	1.1258	1.0124	Ave		1.0214			0.0000	7.4		15.0			
Fluorene	1.4896 1.3834	0.9662 1.2871	1.3197	1.3886	1.2644	Ave		1.2999			0.0000	12.7		15.0			
Phenanthrene	2.1565 1.1836	1.0586 1.1536	1.1958	1.1594	1.1404	Qua	0.0002	0.8500	0.0102		0.0000				0.9997		0.9900
Anthracene	1.0455 1.1188	1.2005 1.2175	1.1643	1.1719	1.2102	Ave		1.1612			0.0000	5.3		15.0			
Carbazole	1.3254 1.0648	0.9055 1.0829	1.1357	1.0658	0.9905	Ave		1.0815			0.0000	12.1		15.0			
Fluoranthene	1.1179 1.2730	1.3921 1.3602	1.2694	1.3341	1.3364	Ave		1.2976			0.0000	7.0		15.0			
Pyrene	1.2897 1.1555	0.9972 1.1333	1.1447	1.1276	1.1177	Ave		1.1380			0.0000	7.5		15.0			
Benzo[a]anthracene	1.8552 1.1480	1.4389 1.1253	1.1508	1.0977	1.1349	LinF		1.1311			0.0000				0.9998		0.9900
Chrysene	1.1739 1.1646	0.9735 1.1563	1.1877	1.0757	1.1010	Ave		1.1190			0.0000	6.8		15.0			
Benzo[b]fluoranthene	0.7438 1.0730	0.9477 1.0842	1.1078	1.0038	1.1118	Ave		1.0103			0.0000	13.0		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.: 680-89328-1 Analy Batch No.: 136370

SDG No.: 68089328-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0957 1.1960	1.0347 1.3382	1.1426	1.1475	1.0478	Ave		1.1432			0.0000	9.0		15.0			
Benzo[a]pyrene	1.0857 1.0737	0.9221 1.1530	1.0427	1.0583	0.9747	Ave		1.0443			0.0000	7.2		15.0			
Indeno[1,2,3-cd]pyrene	1.4093 0.9346	0.8576 1.0494	0.9853	0.8955	1.0192	Lin	0.0160	1.0375			0.0000				0.9958		0.9900
Dibenz(a,h)anthracene	1.3482 0.9834	0.8948 1.0265	0.9138	0.9357	0.9949	Lin	0.0112	1.0243			0.0000				0.9993		0.9900
Benzo[g,h,i]perylene	0.7587 0.9881	1.0764 1.0165	0.9898	1.0387	0.9838	Ave		0.9789			0.0000	10.5		15.0			
o-Terphenyl	0.2006 0.5933	0.7698 0.6744	0.6516	0.6045	0.6070	Lin	0.0172	0.6624			0.0000				0.9945		0.9900

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.: 680-89328-1 Analy B

SDG No.: 68089328-1

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

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.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	1285 178326	6408 318955	33340	66803	132678	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Lin	558 117387	4547 221322	18585	42945	87061	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	1050 109784	3598 201768	21228	38170	85663	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	1337 212811	5176 370532	39114	69442	156488	0.200 30.0	1. 50
Acenaphthene	ANT	Ave	800 121274	3387 231163	21682	45560	90964	0.200 30.0	1. 50
Fluorene	ANT	Ave	1213 157410	3703 287857	27348	56195	113606	0.200 30.0	1. 50
Phenanthrene	PHN	Qua	3451 259782	7274 472306	47149	85752	182675	0.200 30.0	1. 50
Anthracene	PHN	Ave	1673 245548	8249 498469	45907	86681	193854	0.200 30.0	1. 50
Carbazole	PHN	Ave	2121 233698	6222 443362	44777	78836	158666	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	1789 279401	9565 556889	50052	98679	214080	0.200 30.0	1. 50
Pyrene	CRY	Ave	2372 307735	8697 619923	55349	104590	229647	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	LinF	3412 305726	12549 615507	55643	101817	233188	0.200 30.0	1. 50
Chrysene	CRY	Ave	2159 310162	8490 632502	57430	99776	226221	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	1499 299492	9159 576085	56470	93677	243941	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	2208 333825	10000 711099	58242	107089	229890	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	2188 299708	8912 612644	53152	98767	213852	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Lin	2840 260884	8288 557635	50225	83577	223617	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Lin	2717 274497	8648 545458	46577	87325	218275	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	1529 275805	10403 540151	50451	96936	215845	0.200 30.0	1. 50
o-Terphenyl	PHN	Lin	321 130217	5289 276100	25692	44711	97236	0.200 30.0	1. 50

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
LinF = Linear ISTD forced zero
Qua = Quadratic ISTD

136370

N

2882

	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
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	5.00	10.0	20.0
	5.00	10.0	20.0
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	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\1C041113.b\1CD11003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 11-APR-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.675	3.675	(1.000)	245713	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	179699	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	320372	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	97236	20.0000	19.0180
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	410945	40.0000	
*	23 Perylene-d12	264	8.804	8.804	(1.000)	438804	40.0000	
	2 Naphthalene	128	3.686	3.686	(1.003)	132678	20.0000	19.9755
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	87061	20.0000	21.0586
	4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	85663	20.0000	20.1908
	5 Acenaphthylene	152	4.674	4.674	(0.981)	156488	20.0000	20.5512
	7 Acenaphthene	154	4.780	4.780	(1.004)	90964	20.0000	19.3885
	9 Fluorene	166	5.104	5.104	(1.072)	113606	20.0000	19.4543
	11 Phenanthrene	178	5.721	5.721	(1.003)	182675	20.0000	17.6453
	12 Anthracene	178	5.757	5.757	(1.009)	193854	20.0000	20.8428
	13 Carbazole	167	5.863	5.863	(1.028)	158666	20.0000	18.3169
	15 Fluoranthene	202	6.557	6.557	(1.150)	214080	20.0000	20.5986
	16 Pyrene	202	6.721	6.721	(0.879)	229647	20.0000	19.6431
	17 Benzo(a)anthracene	228	7.633	7.633	(0.998)	233188	20.0000	20.0156
	19 Chrysene	228	7.663	7.663	(1.002)	226221	20.0000	19.6785
	20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	243941	20.0000	22.0102
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	229890	20.0000	18.3309
	22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	213852	20.0000	18.6665
	24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	223617	20.0000	19.9538(M)
	25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	218275	20.0000	19.6244
	26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	215845	20.0000	20.1007

QC Flag Legend

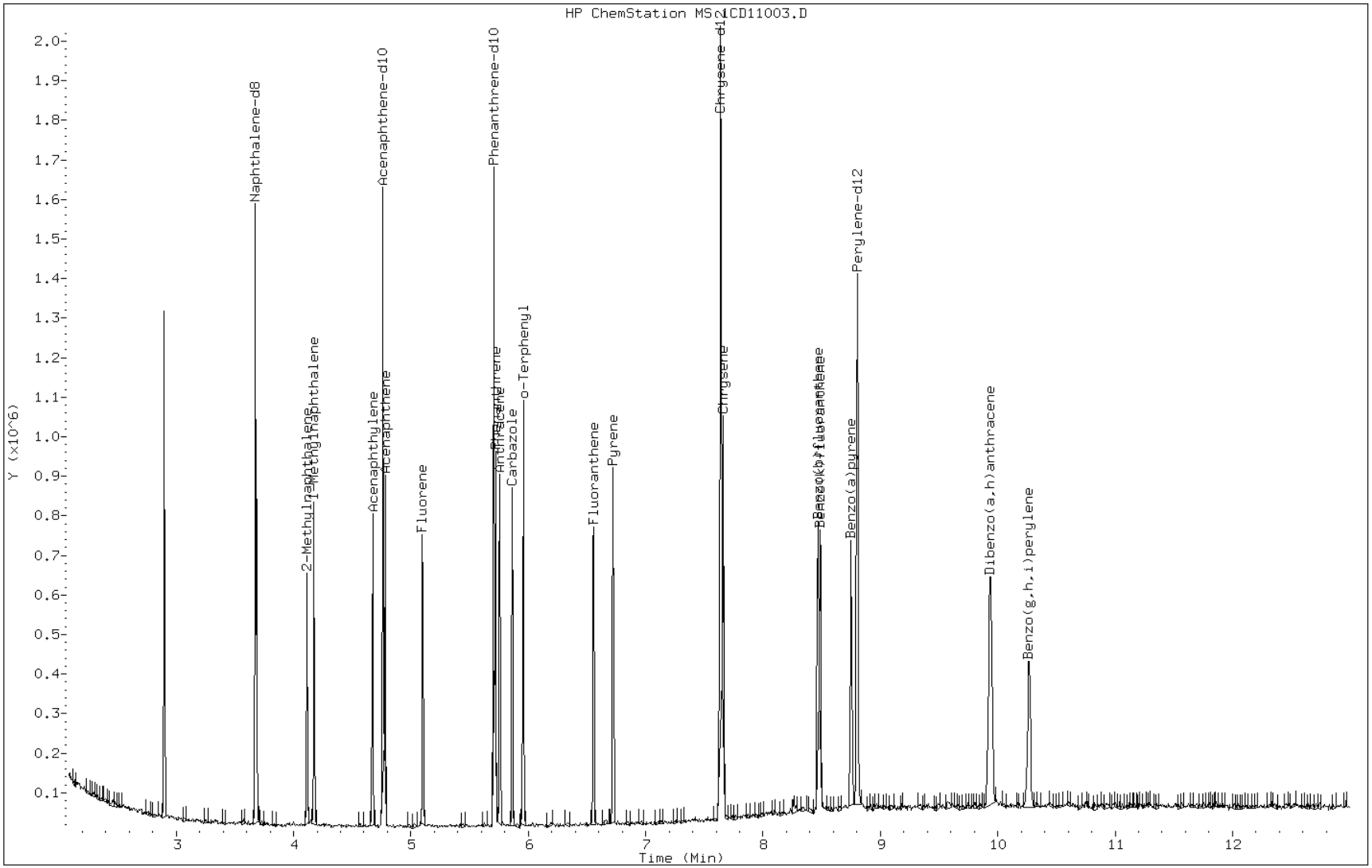
M - Compound response manually integrated.

Data File: 1CD11003.D

Date: 11-APR-2013 11:56

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD11003.D
Inj. Date and Time: 11-APR-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

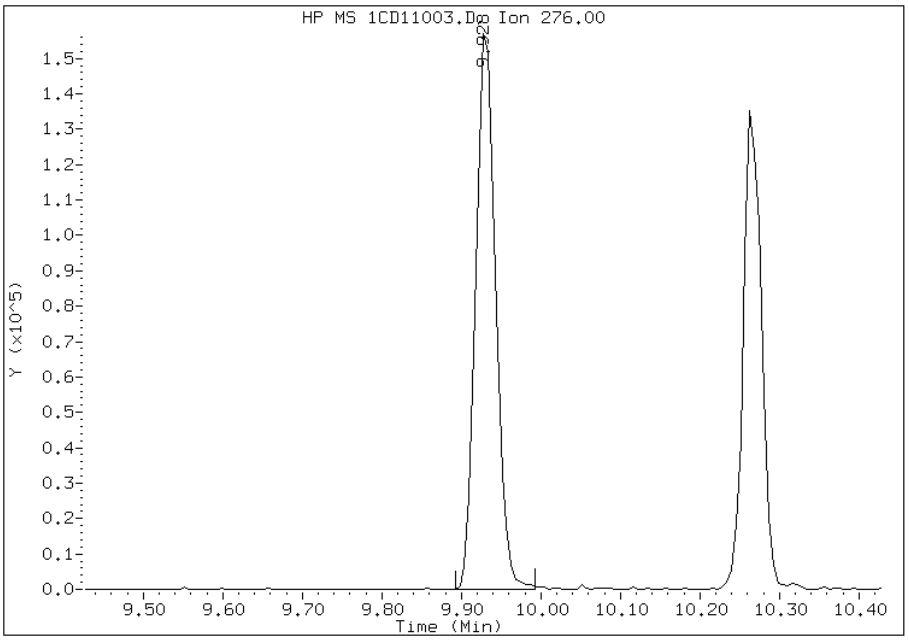
Processing Integration Results

RT: 9.93

Response: 271031

Amount: 23

Conc: 23



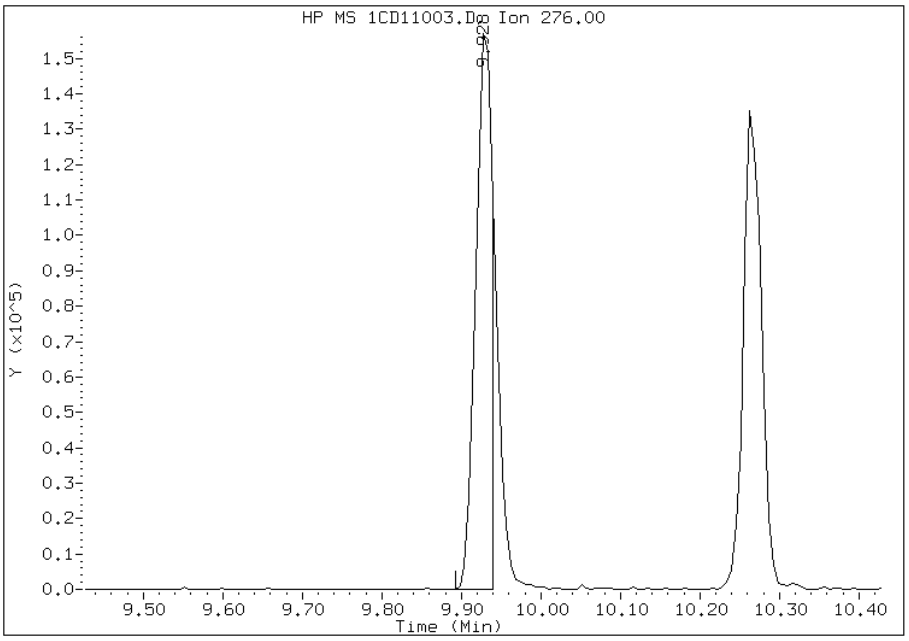
Manual Integration Results

RT: 9.93

Response: 223617

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 12:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11004.D
Lab Smp Id: IC-1531396
Inj Date : 11-APR-2013 12:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 11:56 Cal File: 1CD11003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000)	247033	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	162858	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	320053	40.0000	(H)
$	14 o-Terphenyl	230	5.980	5.980	(1.045)	321	0.20000	0.7502(Q)
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	367836	40.0000	
*	23 Perylene-d12	264	8.827	8.827	(1.000)	403046	40.0000	
	2 Naphthalene	128	3.686	3.686	(1.003)	1285	0.20000	0.1924(Q)
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	558	0.20000	0.1342(Q)
	4 1-Methylnaphthalene	142	4.180	4.180	(1.138)	1050	0.20000	0.2461(Q)
	5 Acenaphthylene	152	4.680	4.680	(0.983)	1337	0.20000	0.1937
	7 Acenaphthene	154	4.786	4.786	(1.005)	800	0.20000	0.0720
	9 Fluorene	166	5.110	5.110	(1.073)	1213	0.20000	0.2291
	11 Phenanthrene	178	5.733	5.733	(1.002)	3451	0.20000	0.3336
	12 Anthracene	178	5.768	5.768	(1.008)	1673	0.20000	0.1800(H)
	13 Carbazole	167	5.880	5.880	(1.028)	2121	0.20000	0.2450
	15 Fluoranthene	202	6.562	6.562	(1.147)	1789	0.20000	0.1723
	16 Pyrene	202	6.733	6.733	(0.879)	2372	0.20000	0.2266
	17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	3412	0.20000	0.2031
	19 Chrysene	228	7.674	7.674	(1.002)	2159	0.20000	0.2098
	20 Benzo(b)fluoranthene	252	8.498	8.498	(0.963)	1499	0.20000	0.1472
	21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	2208	0.20000	0.1916
	22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	2188	0.20000	0.2079
	24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	2840	0.20000	0.2759
	25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	2717	0.20000	0.2659
	26 Benzo(g,h,i)perylene	276	10.286	10.286	(1.165)	1529	0.20000	0.1550(M)

QC Flag Legend

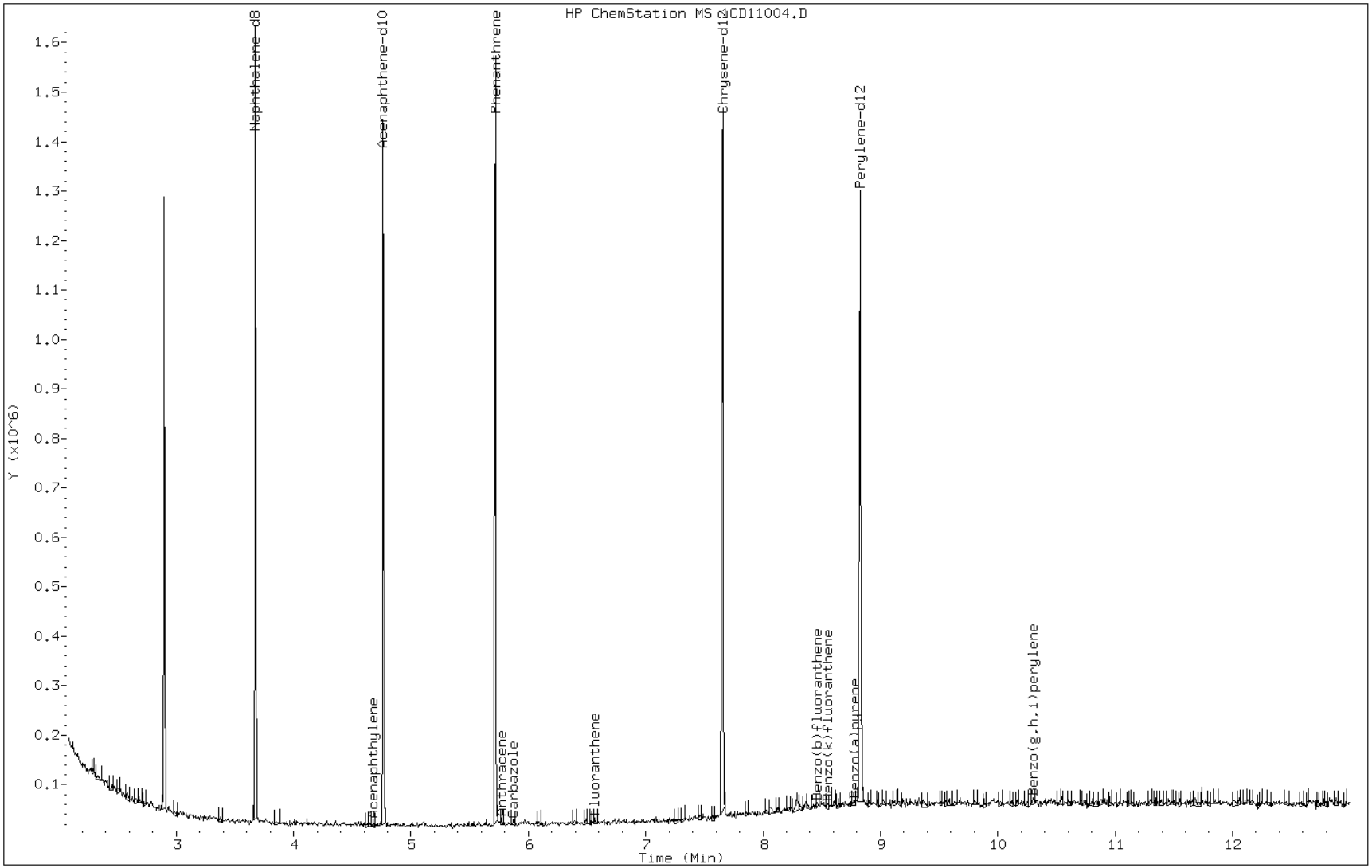
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11004.D

Date: 11-APR-2013 12:35

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1CD11004.D
Inj. Date and Time: 11-APR-2013 12:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

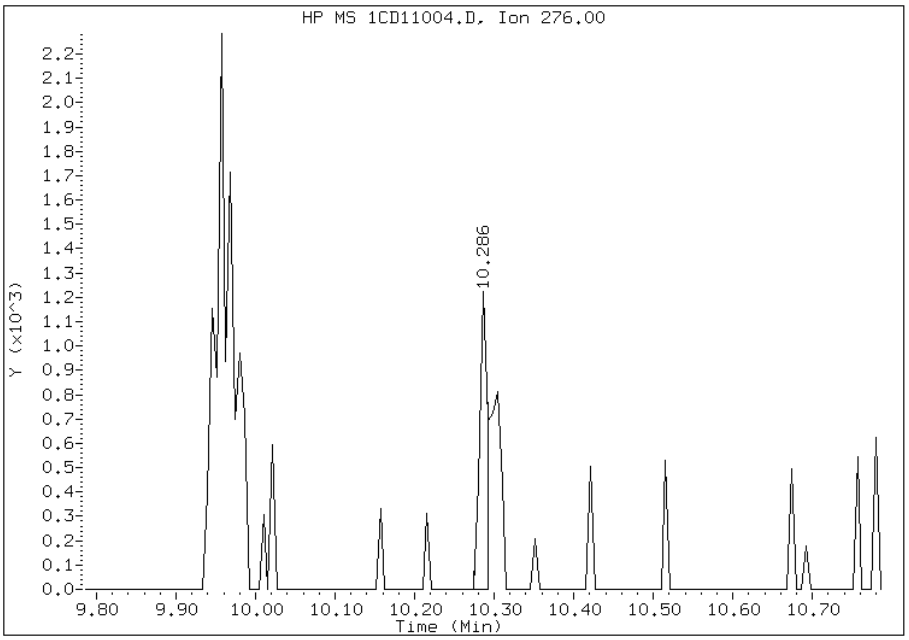
Processing Integration Results

RT: 10.29

Response: 832

Amount: 0

Conc: 0



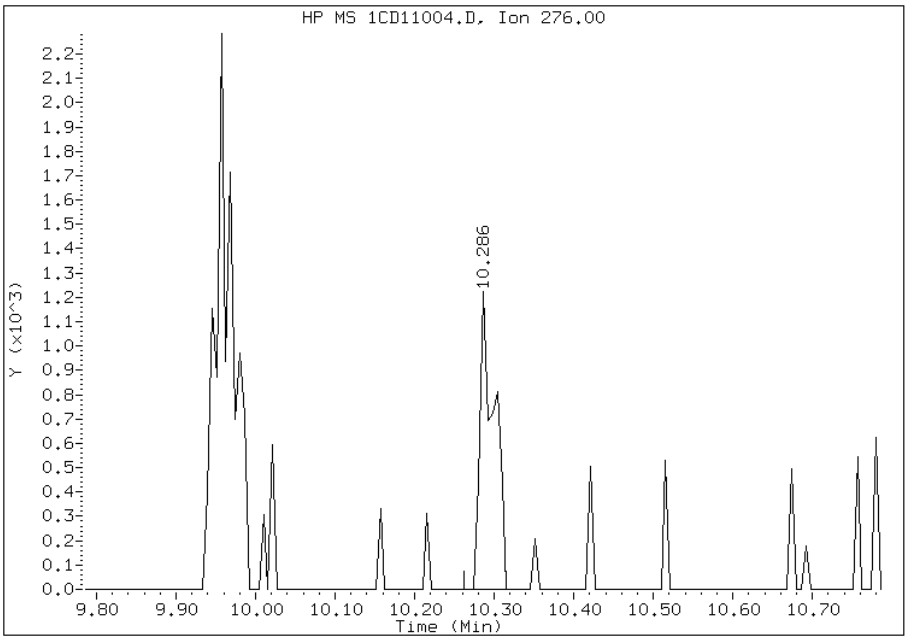
Manual Integration Results

RT: 10.29

Response: 1529

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11005.D
Lab Smp Id: IC-1531398
Inj Date : 11-APR-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:35 Cal File: 1CD11004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	229800	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	153294	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	274841	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	5289	1.00000	1.8517(Q)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	348851	40.0000	
* 23 Perylene-d12	264	8.803	8.803	(1.000)	386589	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	6408	1.00000	1.0315(Q)
3 2-Methylnaphthalene	142	4.110	4.110	(1.118)	4547	1.00000	1.1760(Q)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	3598	1.00000	0.9067
5 Acenaphthylene	152	4.674	4.674	(0.981)	5176	1.00000	0.7968
7 Acenaphthene	154	4.780	4.780	(1.004)	3387	1.00000	0.7341
9 Fluorene	166	5.104	5.104	(1.072)	3703	1.00000	0.7433(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	7274	1.00000	0.8190(H)
12 Anthracene	178	5.757	5.757	(1.009)	8249	1.00000	1.0338
13 Carbazole	167	5.862	5.862	(1.028)	6222	1.00000	0.8372
15 Fluoranthene	202	6.556	6.556	(1.150)	9565	1.00000	1.0728
16 Pyrene	202	6.721	6.721	(0.880)	8697	1.00000	0.8763
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	12549	1.00000	1.1507
19 Chrysene	228	7.656	7.656	(1.002)	8490	1.00000	0.8699
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	9159	1.00000	0.9380(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	10000	1.00000	0.9050(H)
22 Benzo(a)pyrene	252	8.750	8.750	(0.994)	8912	1.00000	0.8829(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.127)	8288	1.00000	0.8394(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.129)	8648	1.00000	0.8825(MH)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	10403	1.00000	1.0996

QC Flag Legend

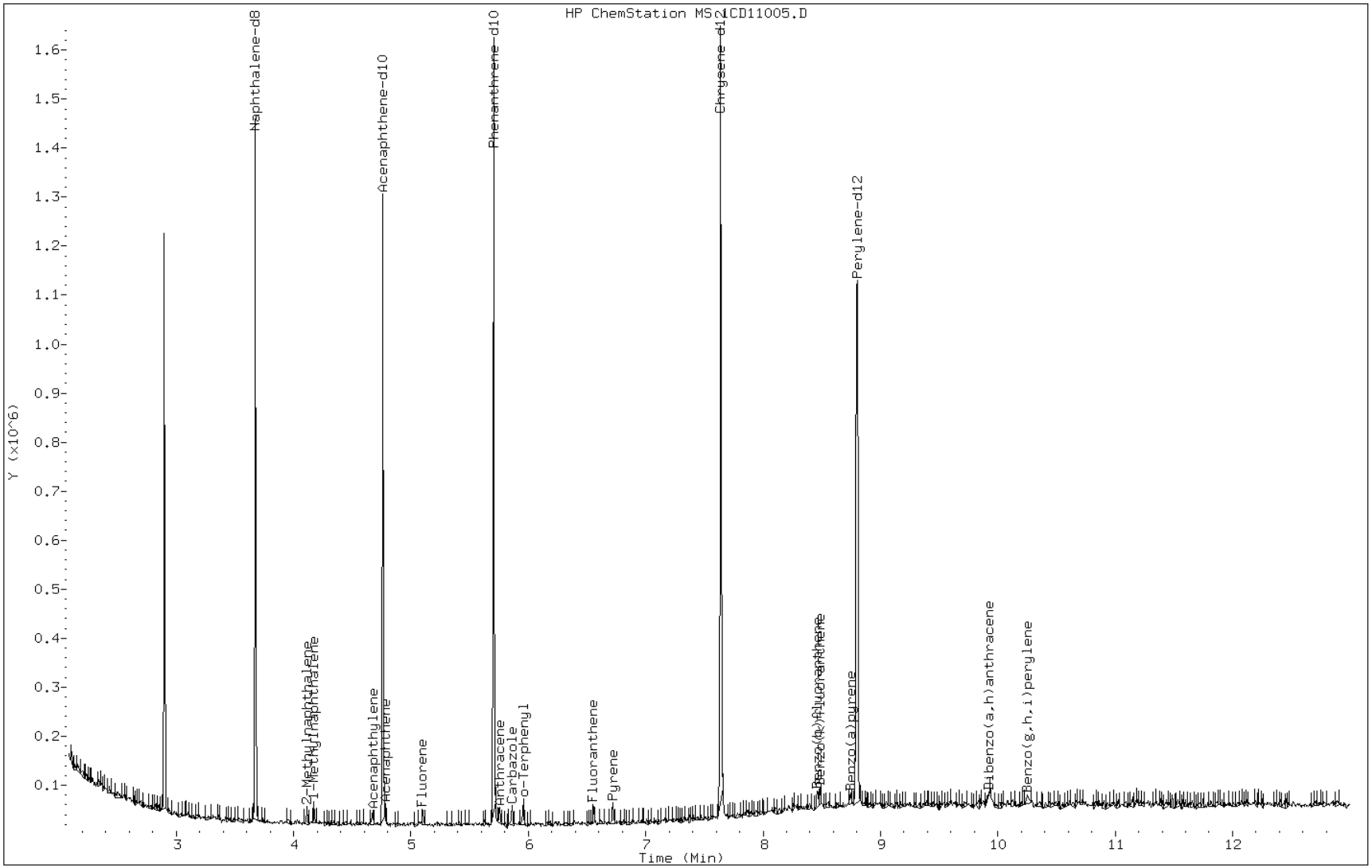
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11005.D

Date: 11-APR-2013 12:53

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

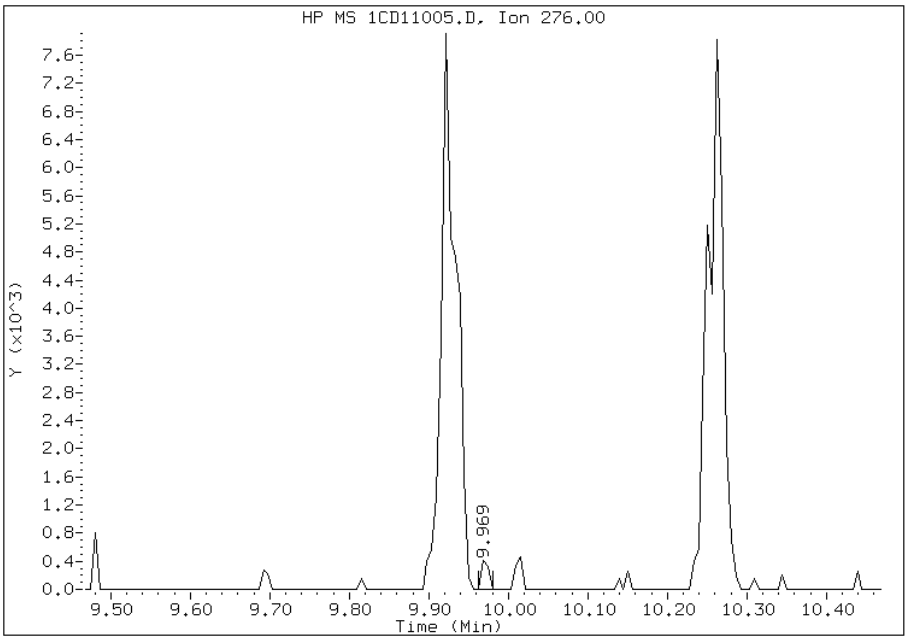
Processing Integration Results

RT: 9.97

Response: 260

Amount: 0

Conc: 0



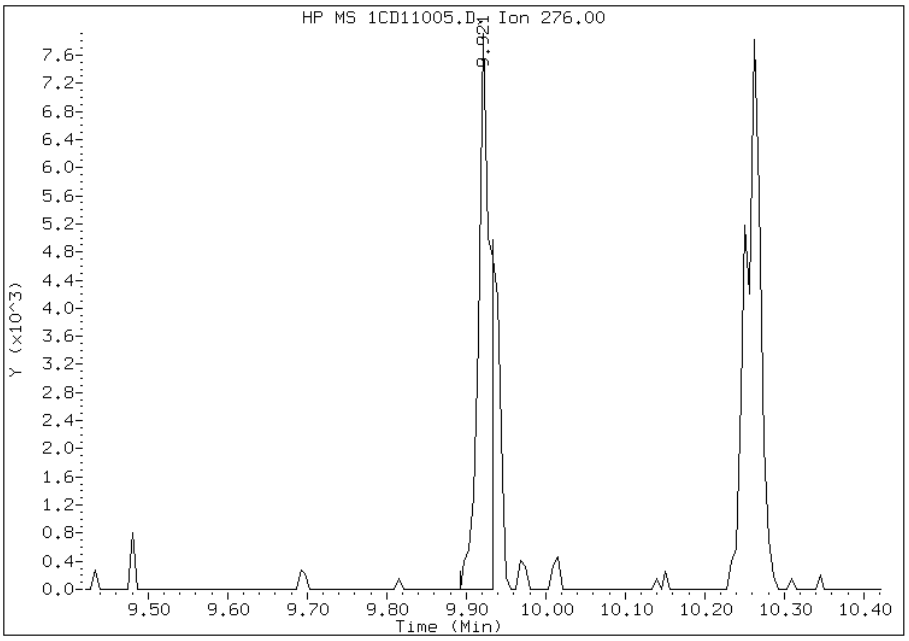
Manual Integration Results

RT: 9.92

Response: 8288

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

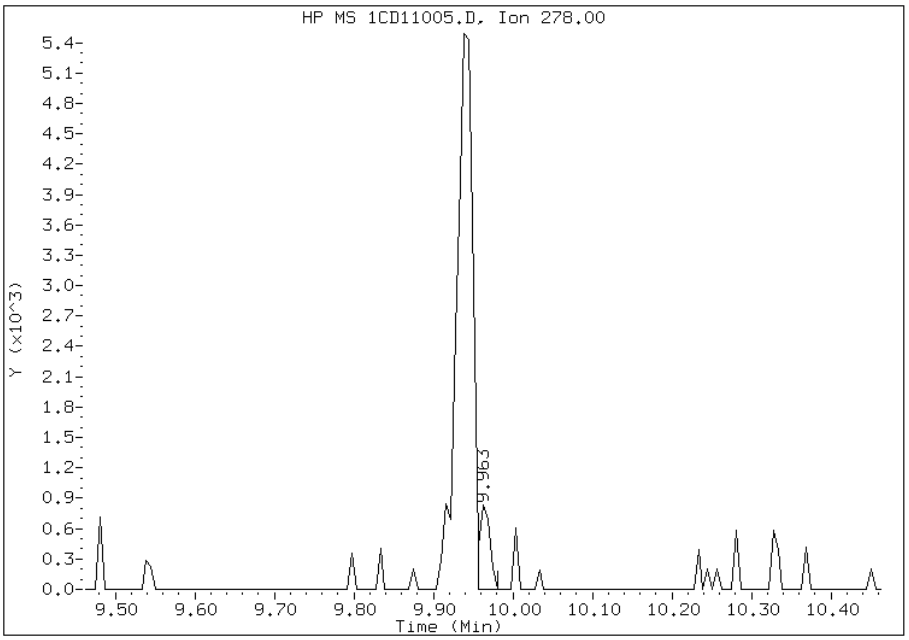
Processing Integration Results

RT: 9.96

Response: 764

Amount: 0

Conc: 0



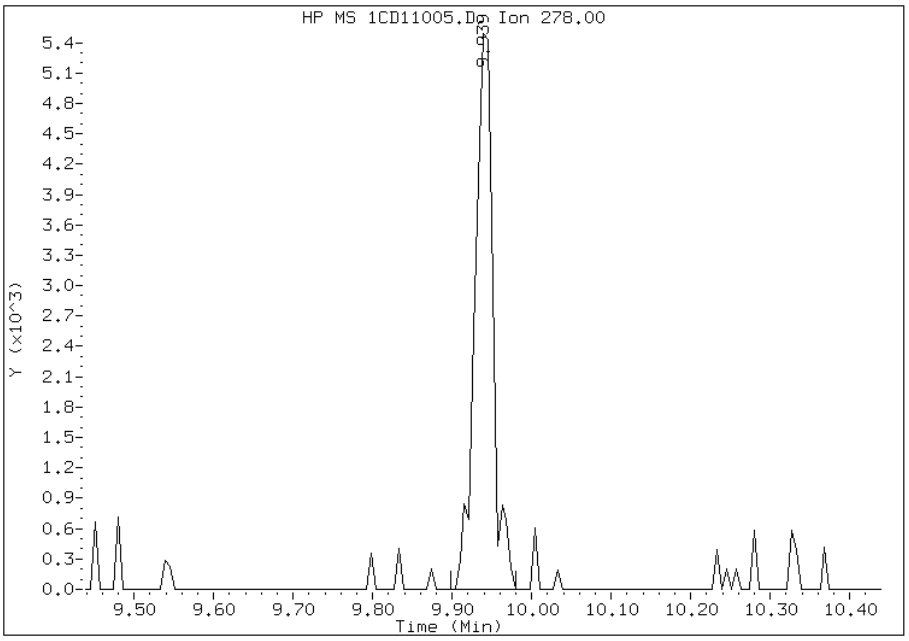
Manual Integration Results

RT: 9.94

Response: 8648

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11006.D
Lab Smp Id: IC-1531399
Inj Date : 11-APR-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:53 Cal File: 1CD11005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.675	3.675	(1.000)	236973	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	165788	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	315427	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	25692	5.00000	5.6083
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	386829	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	407786	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003)	33340	5.00000	5.2046
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	18585	5.00000	4.6612
	4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	21228	5.00000	5.1880
	5 Acenaphthylene	152	4.674	4.674	(0.981)	39114	5.00000	5.5677
	7 Acenaphthene	154	4.780	4.780	(1.004)	21682	5.00000	4.9222
	9 Fluorene	166	5.098	5.098	(1.070)	27348	5.00000	5.0761(Q)
	11 Phenanthrene	178	5.721	5.721	(1.003)	47149	5.00000	4.6257(H)
	12 Anthracene	178	5.757	5.757	(1.009)	45907	5.00000	5.0132
	13 Carbazole	167	5.863	5.863	(1.028)	44777	5.00000	5.2502
	15 Fluoranthene	202	6.551	6.551	(1.148)	50052	5.00000	4.8914
	16 Pyrene	202	6.721	6.721	(0.880)	55349	5.00000	5.0294
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	55643	5.00000	4.9797
	19 Chrysene	228	7.657	7.657	(1.002)	57430	5.00000	5.3071
	20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	56470	5.00000	5.4827(H)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	58242	5.00000	4.9973(H)
	22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	53152	5.00000	4.9924(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.128)	50225	5.00000	4.8225(MH)
	25 Dibenzo(a,h)anthracene	278	9.927	9.927	(1.128)	46577	5.00000	4.5061(H)
	26 Benzo(g,h,i)perylene	276	10.251	10.251	(1.165)	50451	5.00000	5.0556(H)

QC Flag Legend

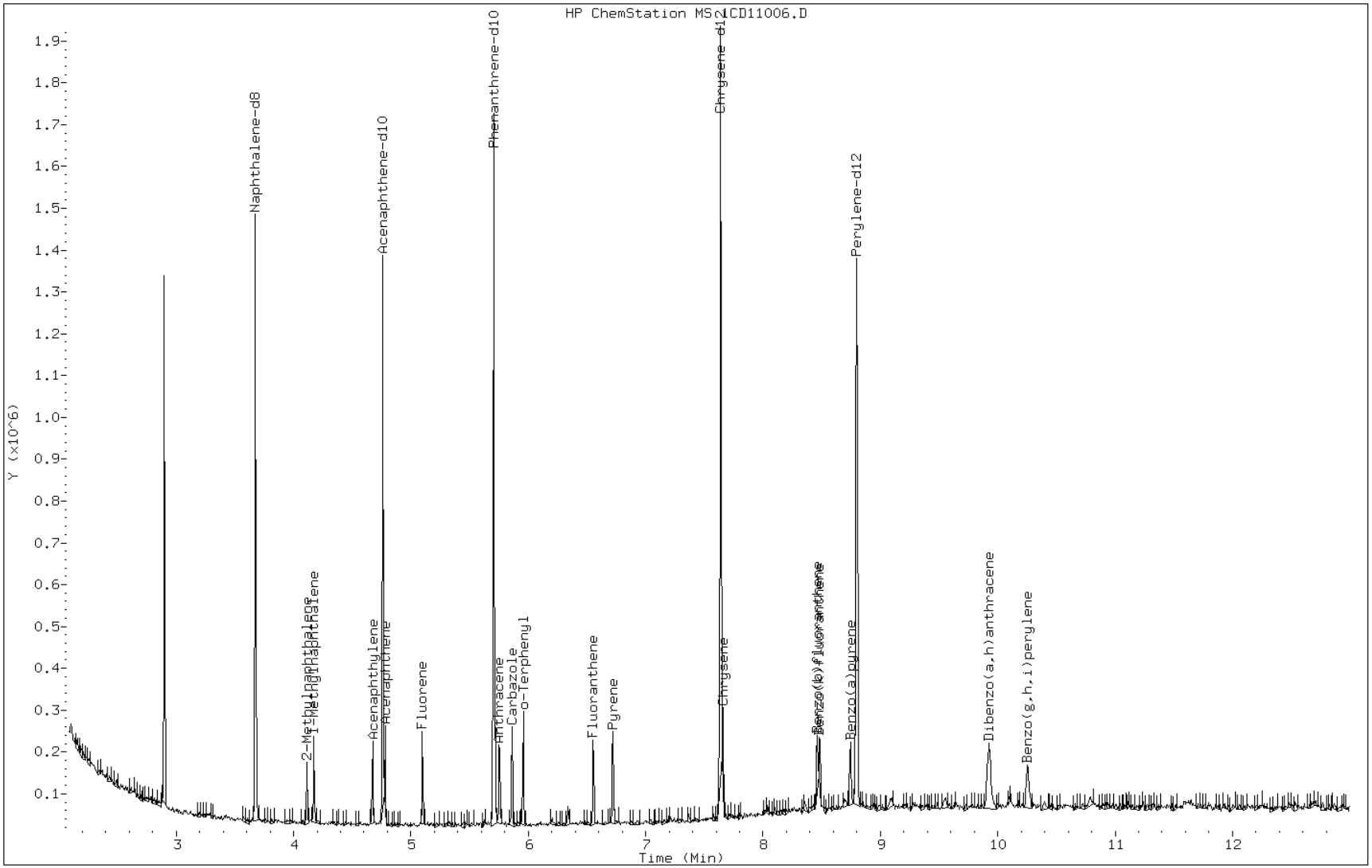
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11006.D

Date: 11-APR-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1CD11006.D
Inj. Date and Time: 11-APR-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

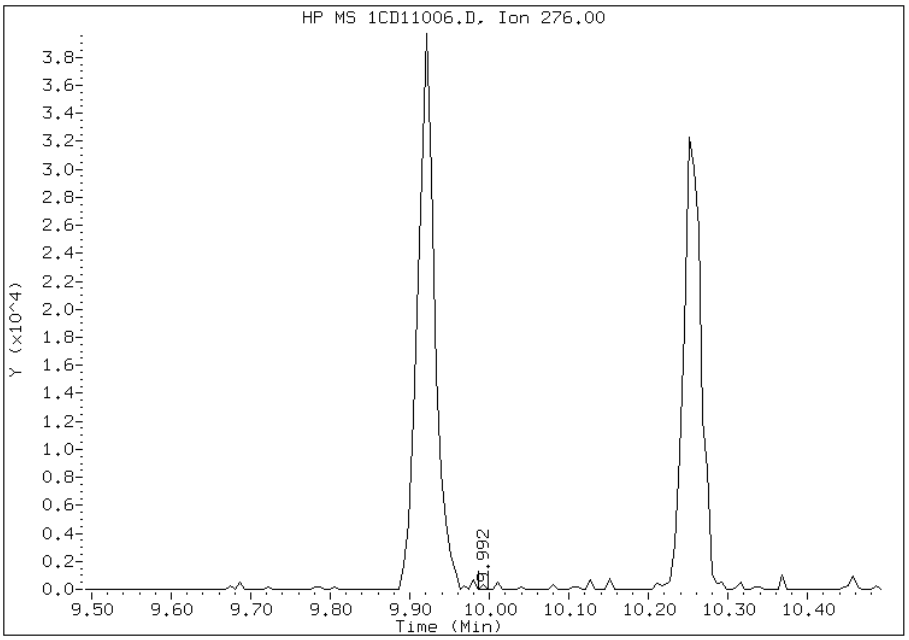
Processing Integration Results

RT: 9.99

Response: 108

Amount: 0

Conc: 0



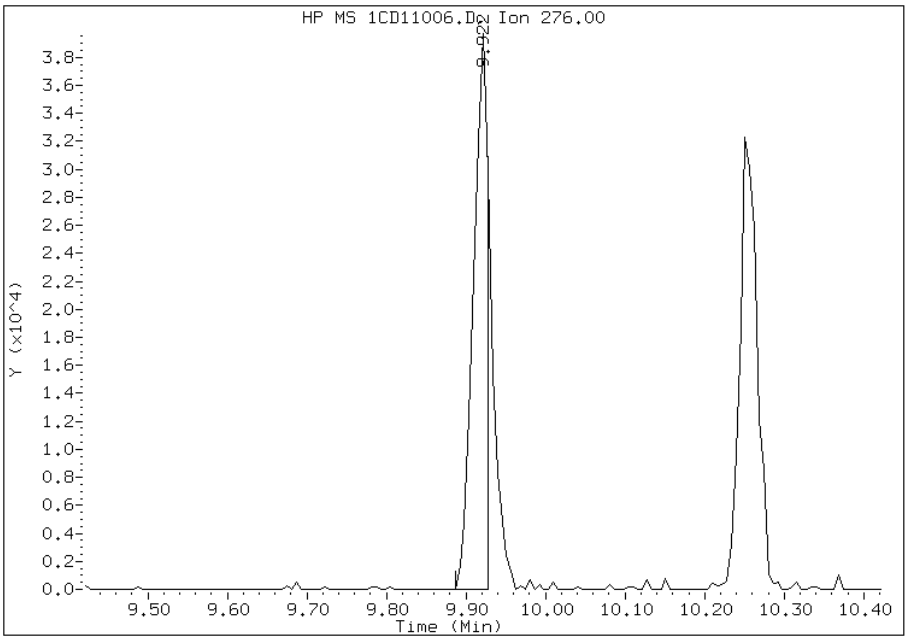
Manual Integration Results

RT: 9.92

Response: 50225

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:35
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11007.D
Lab Smp Id: IC-1531400
Inj Date : 11-APR-2013 13:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:11 Cal File: 1CD11006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000)	246668	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	161880	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	295862	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	44711	10.0000	9.8155
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	371008	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	373300	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003)	66803	10.0000	10.0187
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	42945	10.0000	10.3474
	4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	38170	10.0000	8.9618
	5 Acenaphthylene	152	4.674	4.674	(0.981)	69442	10.0000	10.1235
	7 Acenaphthene	154	4.780	4.780	(1.004)	45560	10.0000	10.7277
	9 Fluorene	166	5.098	5.098	(1.070)	56195	10.0000	10.6823
	11 Phenanthrene	178	5.721	5.721	(1.003)	85752	10.0000	8.9693(H)
	12 Anthracene	178	5.757	5.757	(1.009)	86681	10.0000	10.0918
	13 Carbazole	167	5.863	5.863	(1.028)	78836	10.0000	9.8550
	15 Fluoranthene	202	6.551	6.551	(1.148)	98679	10.0000	10.2813
	16 Pyrene	202	6.721	6.721	(0.880)	104590	10.0000	9.9092
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	101817	10.0000	9.6151
	19 Chrysene	228	7.657	7.657	(1.002)	99776	10.0000	9.6136
	20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	93677	10.0000	9.9354(H)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	107089	10.0000	10.0374(H)
	22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	98767	10.0000	10.1338(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	83577	10.0000	8.7663(MH)
	25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	87325	10.0000	9.2288(H)
	26 Benzo(g,h,i)perylene	276	10.256	10.256	(1.166)	96936	10.0000	10.6113(H)

QC Flag Legend

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

Data File: 1CD11007.D

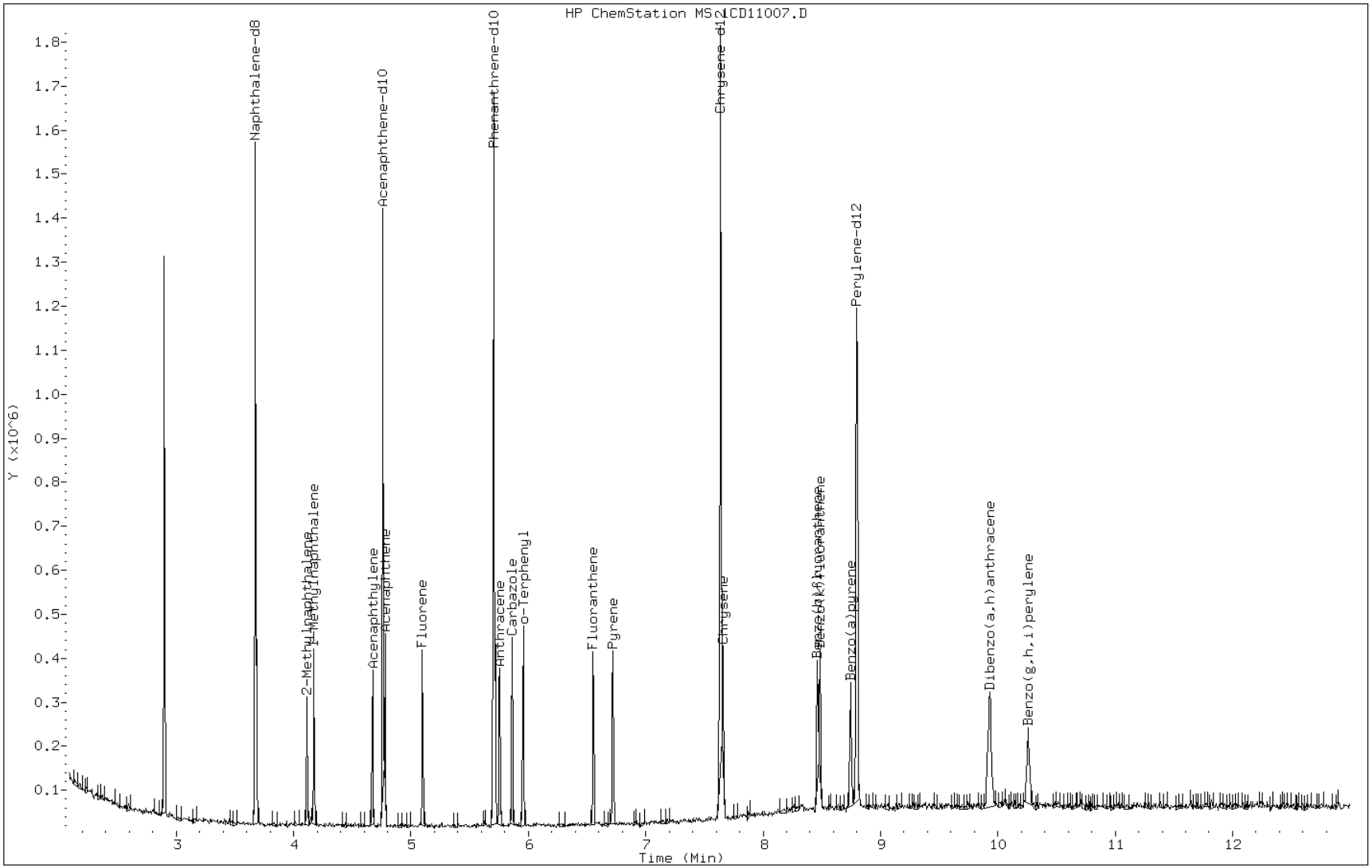
Date: 11-APR-2013 13:30

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1CD11007.D
Inj. Date and Time: 11-APR-2013 13:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

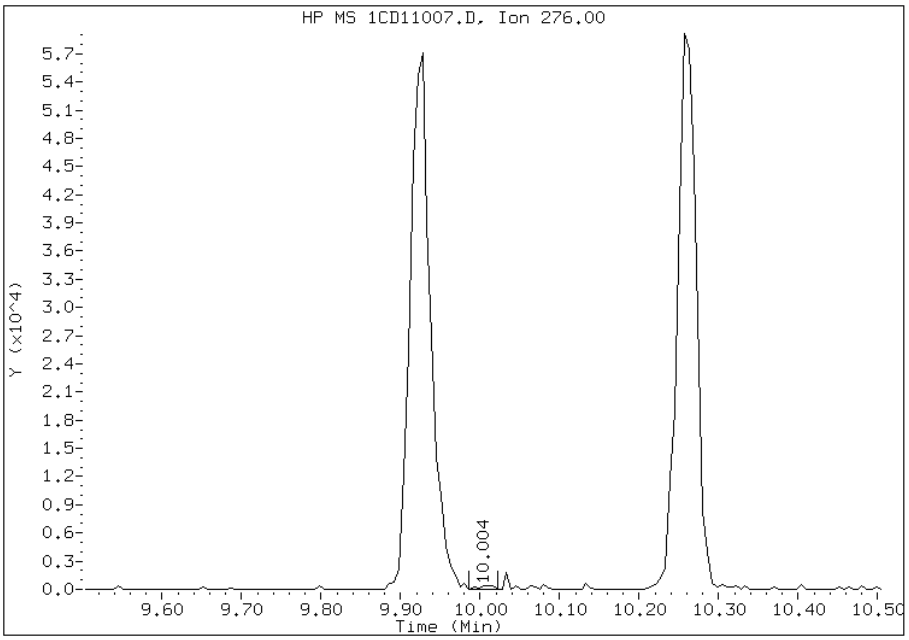
Processing Integration Results

RT: 10.00

Response: 600

Amount: 0

Conc: 0



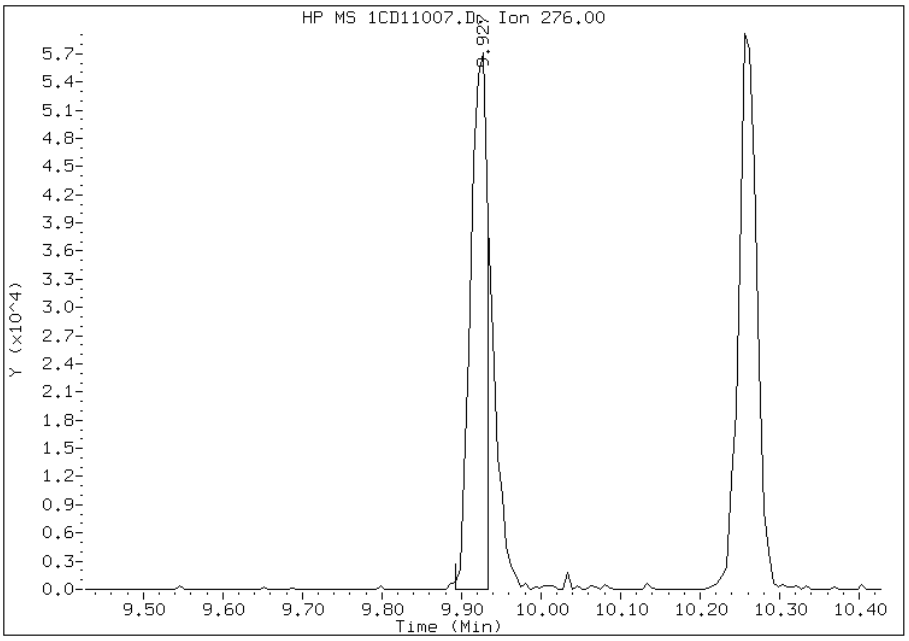
Manual Integration Results

RT: 9.93

Response: 83577

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11008.D
Lab Smp Id: IC-1531402
Inj Date : 11-APR-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:30 Cal File: 1CD11007.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

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000)	219235	40.0000	
*	6 Acenaphthene-d10	164	4.762	4.762	(1.000)	151711	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	292639	40.0000	
$	14 o-Terphenyl	230	5.956	5.956	(1.044)	130217	30.0000	27.5608
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	355096	40.0000	
*	23 Perylene-d12	264	8.797	8.797	(1.000)	372168	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003)	178326	30.0000	30.0907
	3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	117387	30.0000	31.8232
	4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	109784	30.0000	29.0014
	5 Acenaphthylene	152	4.674	4.674	(0.981)	212811	30.0000	33.1039
	7 Acenaphthene	154	4.780	4.780	(1.004)	121274	30.0000	30.6855
	9 Fluorene	166	5.098	5.098	(1.070)	157410	30.0000	31.9283
	11 Phenanthrene	178	5.721	5.721	(1.003)	259782	30.0000	27.4715(H)
	12 Anthracene	178	5.756	5.756	(1.009)	245548	30.0000	28.9028
	13 Carbazole	167	5.862	5.862	(1.028)	233698	30.0000	29.5356
	15 Fluoranthene	202	6.556	6.556	(1.150)	279401	30.0000	29.4314
	16 Pyrene	202	6.721	6.721	(0.880)	307735	30.0000	30.4624
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	305726	30.0000	30.4344
	19 Chrysene	228	7.662	7.662	(1.003)	310162	30.0000	31.2239
	20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	299492	30.0000	31.8608(H)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	333825	30.0000	31.3844(H)
	22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	299708	30.0000	30.8447(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	260884	30.0000	27.4473(MH)
	25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	274497	30.0000	29.0980(H)
	26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	275805	30.0000	30.2834(H)

QC Flag Legend

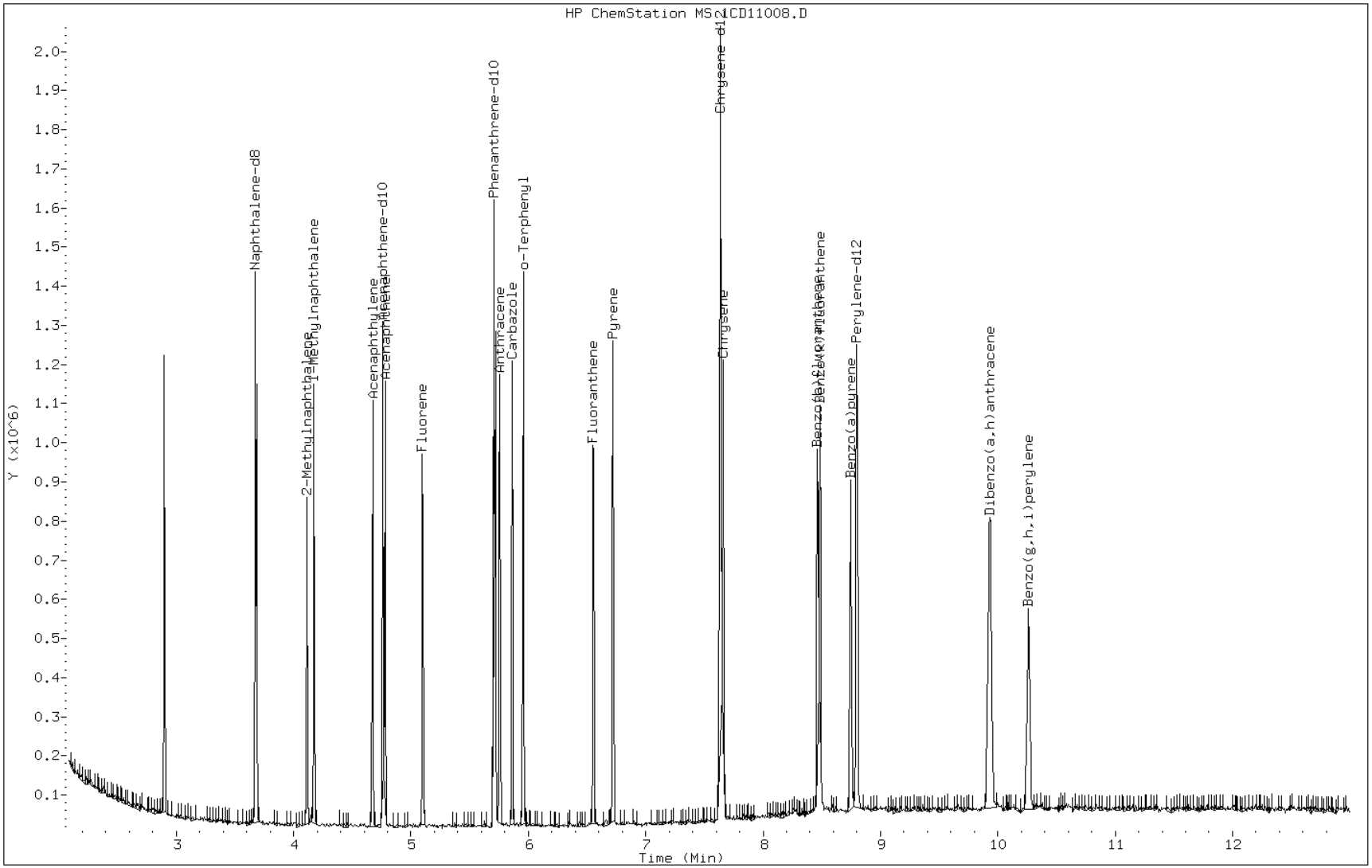
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11008.D

Date: 11-APR-2013 13:48

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1CD11008.D
Inj. Date and Time: 11-APR-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

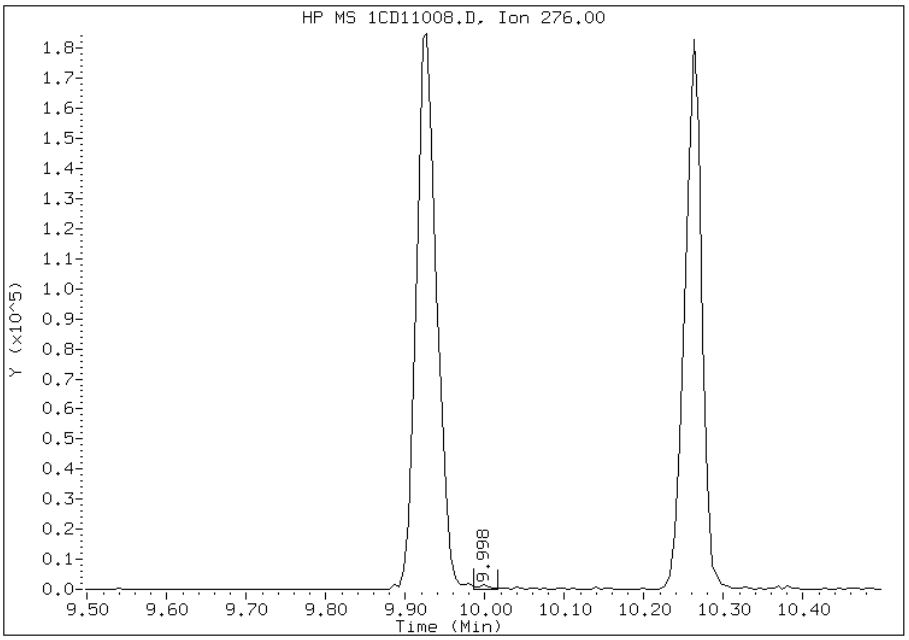
Processing Integration Results

RT: 10.00

Response: 1705

Amount: 0

Conc: 0



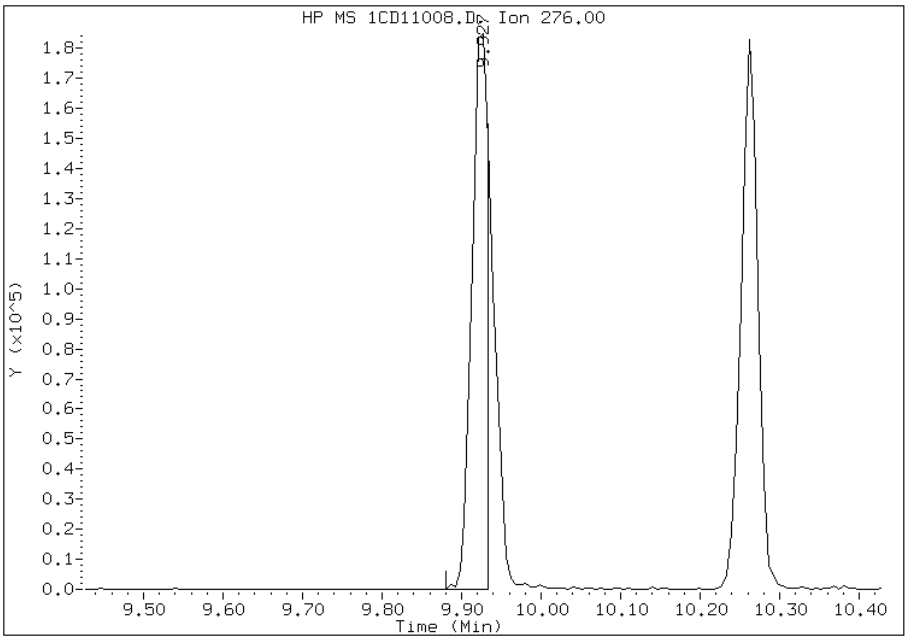
Manual Integration Results

RT: 9.93

Response: 260884

Amount: 27

Conc: 27



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11009.D
Lab Smp Id: IC-1531403
Inj Date : 11-APR-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:48 Cal File: 1CD11008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000) 245399	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000) 178913	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000) 327530	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044) 276100	50.0000	51.5953(A)
*	18 Chrysene-d12	240	7.639	7.639	(1.000) 437594	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000) 425092	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003) 318955	50.0000	48.0823
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120) 221322	50.0000	53.6026(A)
	4 1-Methylnaphthalene	142	4.174	4.174	(1.136) 201768	50.0000	47.6178
	5 Acenaphthylene	152	4.674	4.674	(0.981) 370532	50.0000	48.8750
	7 Acenaphthene	154	4.780	4.780	(1.004) 231163	50.0000	49.6697
	9 Fluorene	166	5.104	5.104	(1.072) 287857	50.0000	49.5103
	11 Phenanthrene	178	5.721	5.721	(1.003) 472306	50.0000	44.6250(H)
	12 Anthracene	178	5.757	5.757	(1.009) 498469	50.0000	52.4232(A)
	13 Carbazole	167	5.863	5.863	(1.028) 443362	50.0000	50.0646(A)
	15 Fluoranthene	202	6.557	6.557	(1.150) 556889	50.0000	52.4123(A)
	16 Pyrene	202	6.721	6.721	(0.880) 619923	50.0000	49.7966
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999) 615507	50.0000	49.8010
	19 Chrysene	228	7.662	7.662	(1.003) 632502	50.0000	51.6696(A)
	20 Benzo(b)fluoranthene	252	8.468	8.468	(0.963) 576085	50.0000	53.6554(AH)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965) 711099	50.0000	58.5305(AH)
	22 Benzo(a)pyrene	252	8.751	8.751	(0.995) 612644	50.0000	55.2010(AH)
	24 Indeno(1,2,3-cd)pyrene	276	9.933	9.933	(1.129) 557635	50.0000	51.3640(AMH)
	25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130) 545458	50.0000	50.6224(AH)
	26 Benzo(g,h,i)perylene	276	10.268	10.268	(1.167) 540151	50.0000	51.9247(AH)

QC Flag Legend

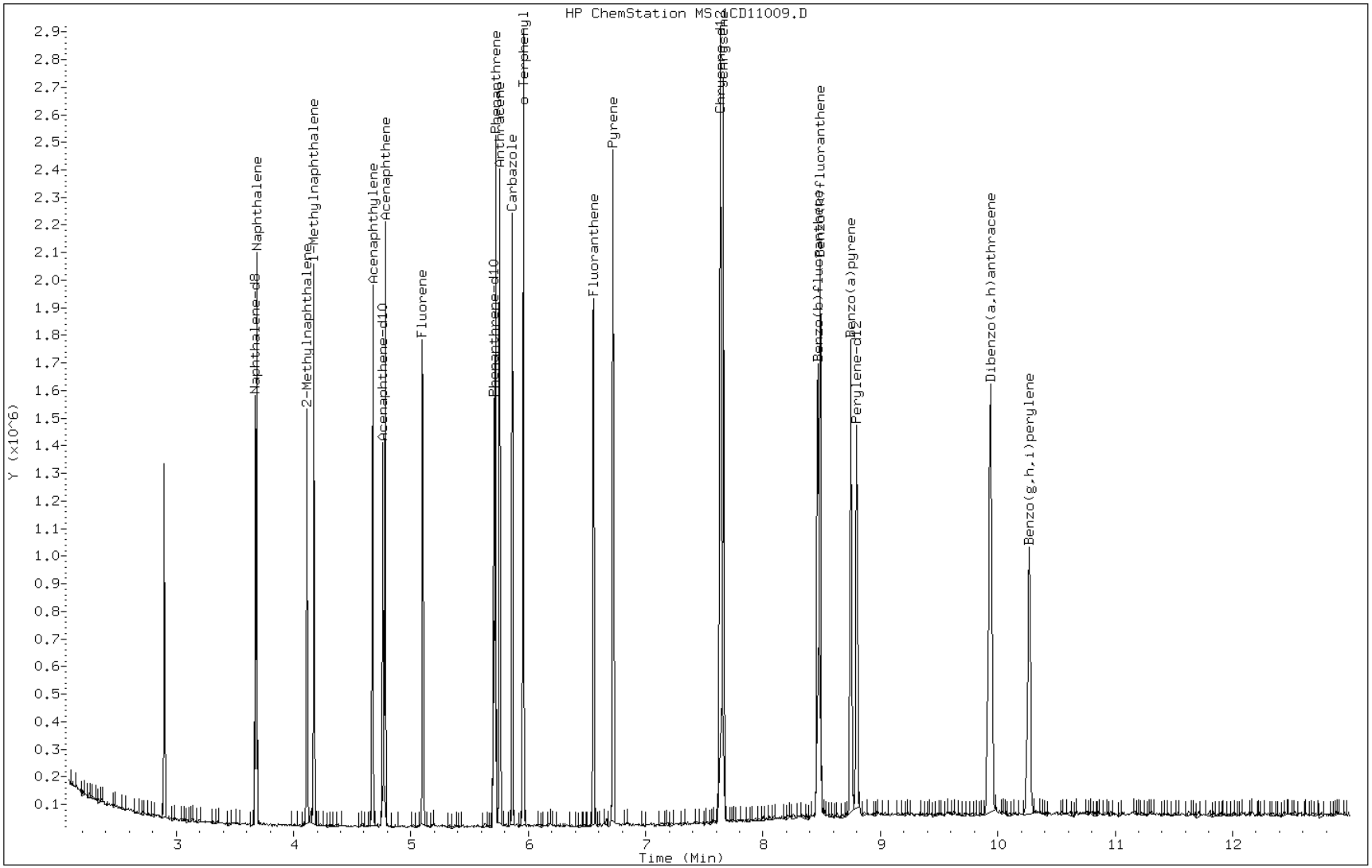
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11009.D

Date: 11-APR-2013 14:06

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1CD11009.D
Inj. Date and Time: 11-APR-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

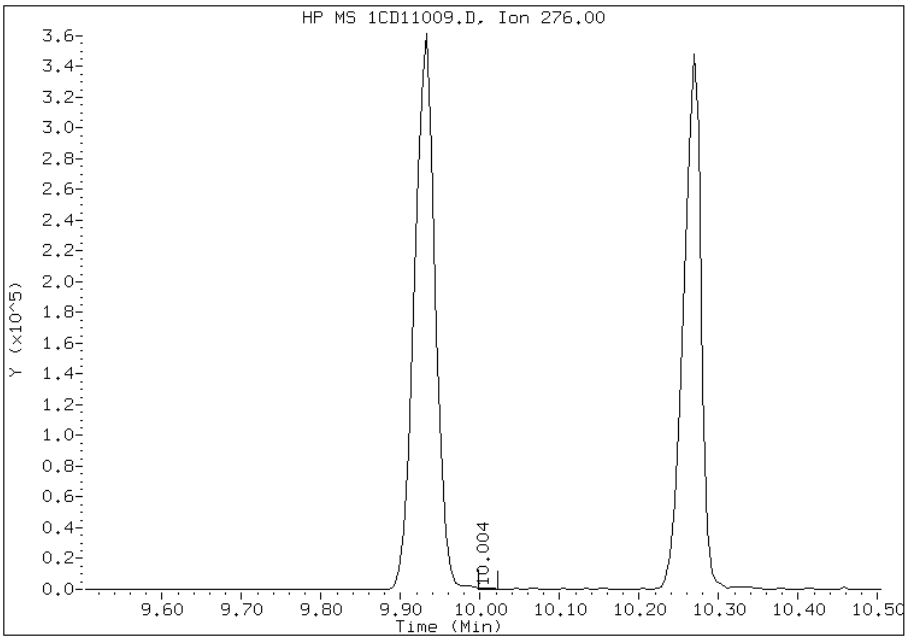
Processing Integration Results

RT: 10.00

Response: 955

Amount: 0

Conc: 0



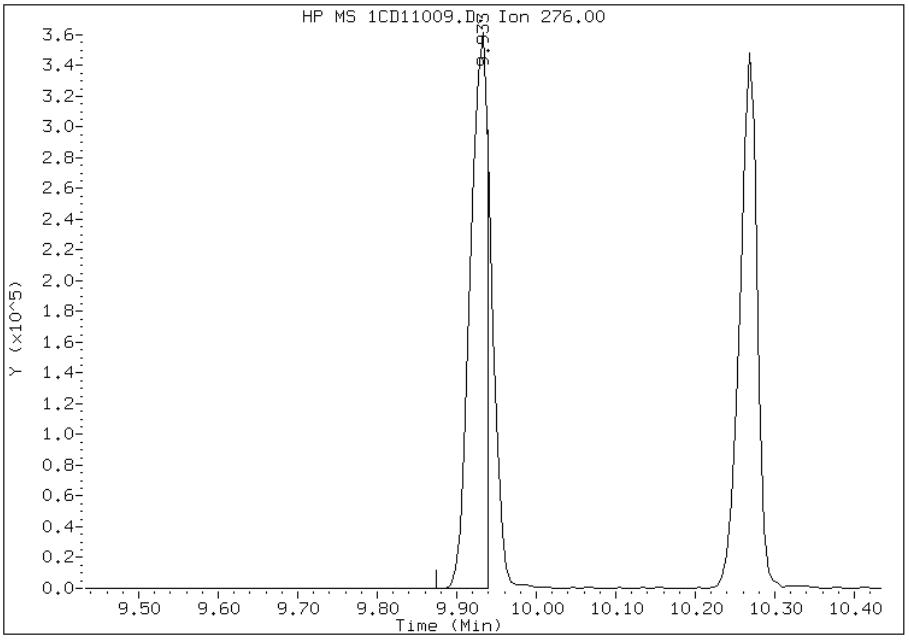
Manual Integration Results

RT: 9.93

Response: 557635

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:37
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1 Analy Batch No.: 136164

SDG No.: 68089328-1

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

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

Calibration Files:

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1 Analy Batch No.: 136164

SDG No.: 68089328-1

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-1 Analy B

SDG No.: 68089328-1

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibra

Calibration Files:

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					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	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1. 50
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1. 50
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1. 50
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1. 50
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1. 50
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1. 50
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1. 50
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1. 50
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1. 50

Curve Type Legend:
Ave = Average ISTD

136164

N

2874

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

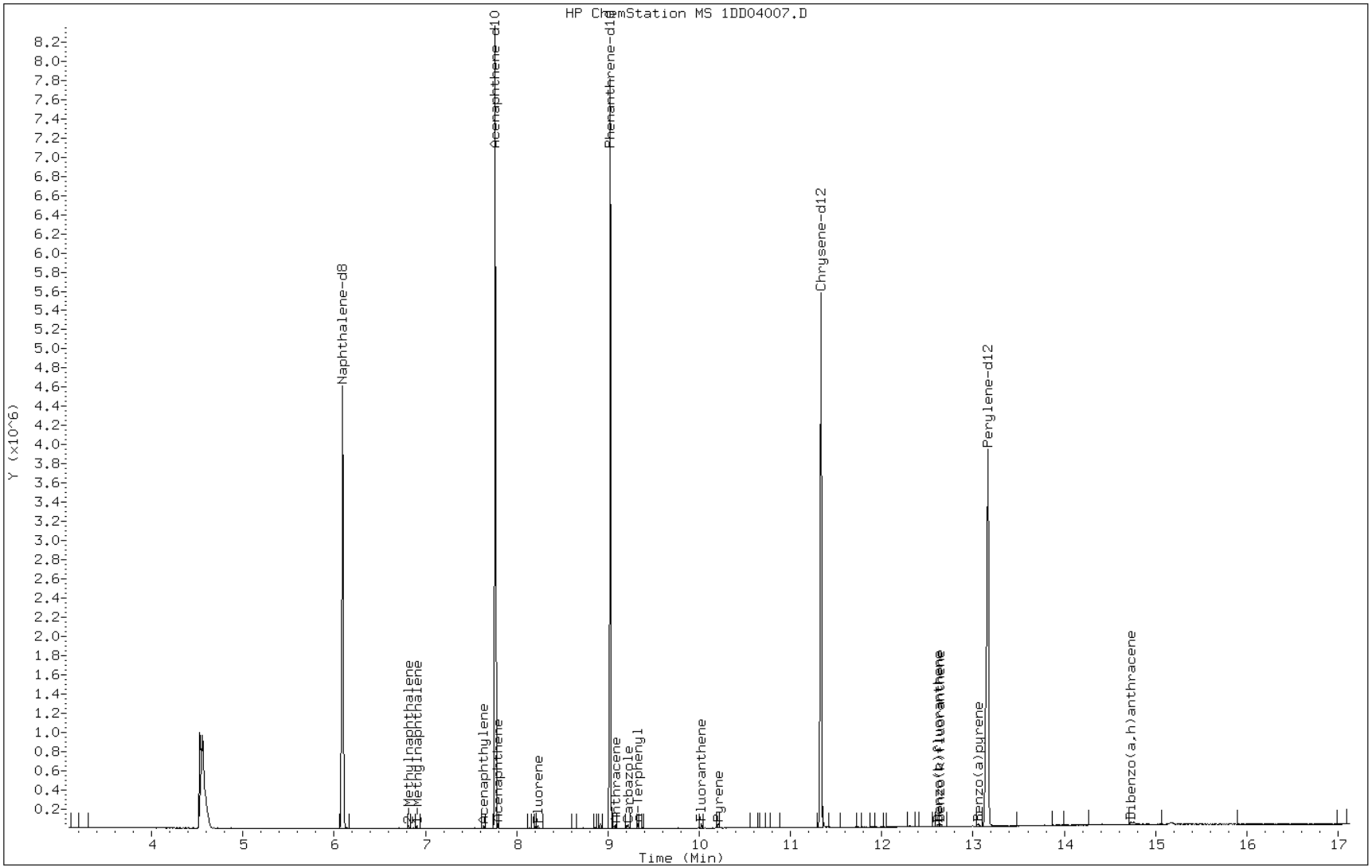
M - Compound response manually integrated.

Data File: 1DD04007.D

Date: 04-APR-2013 13:49

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

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

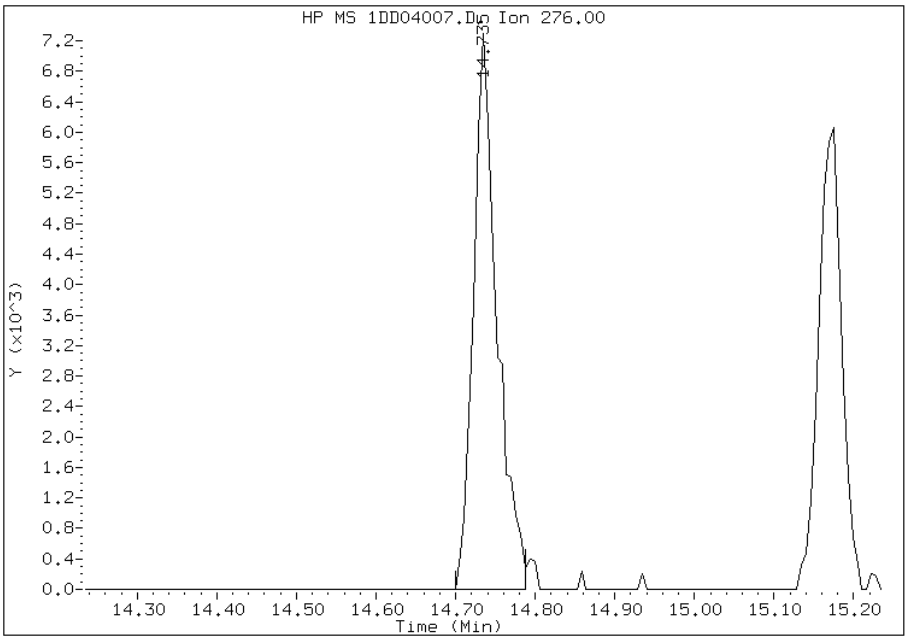
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



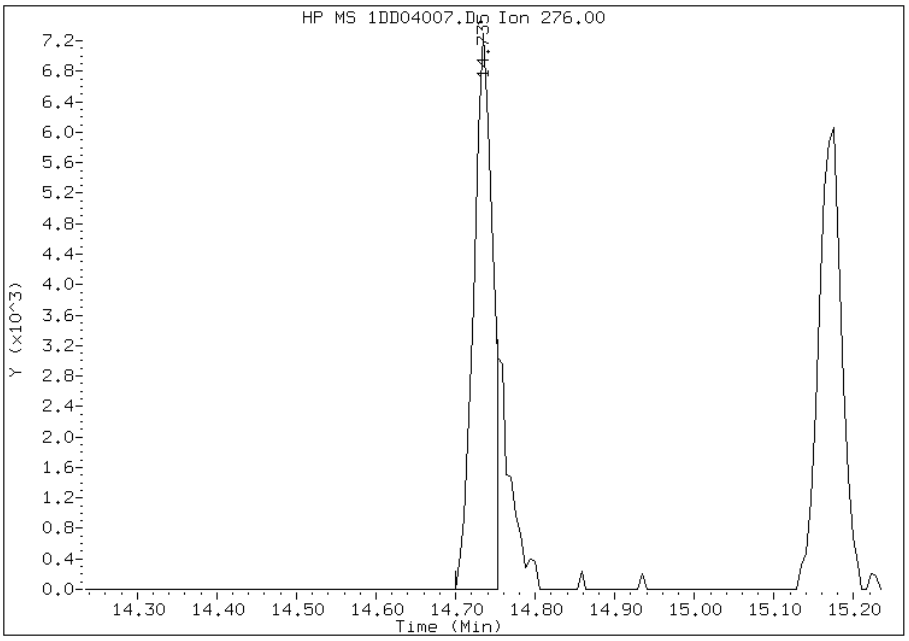
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



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

Manual Integration Report

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

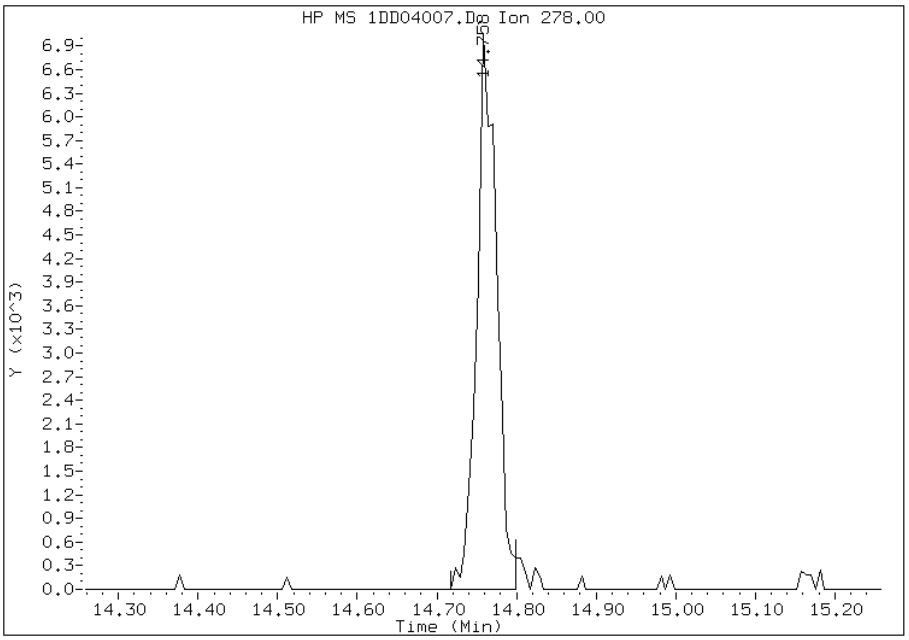
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



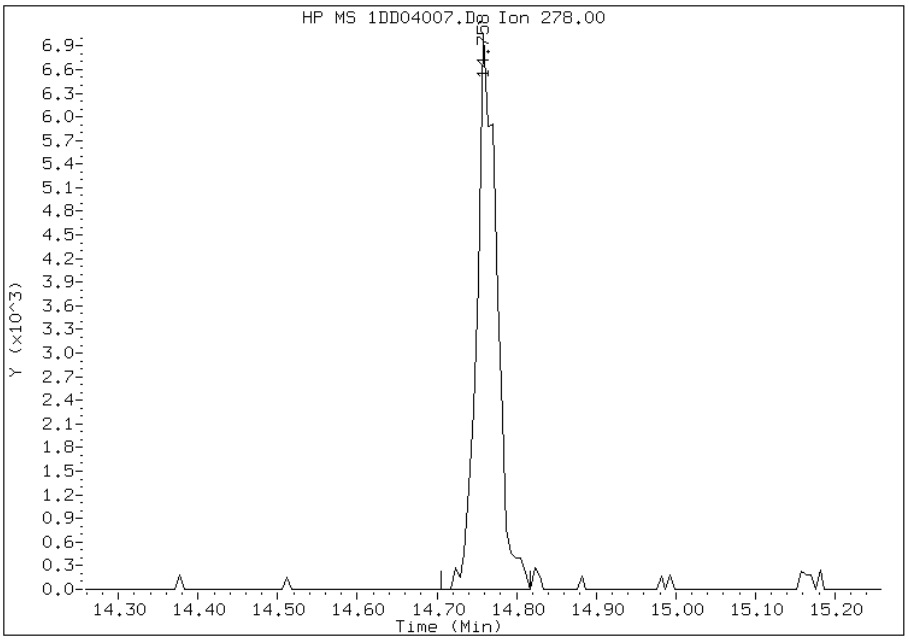
Manual Integration Results

RT: 14.76

Response: 12466

Amount: 0

Conc: 0



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

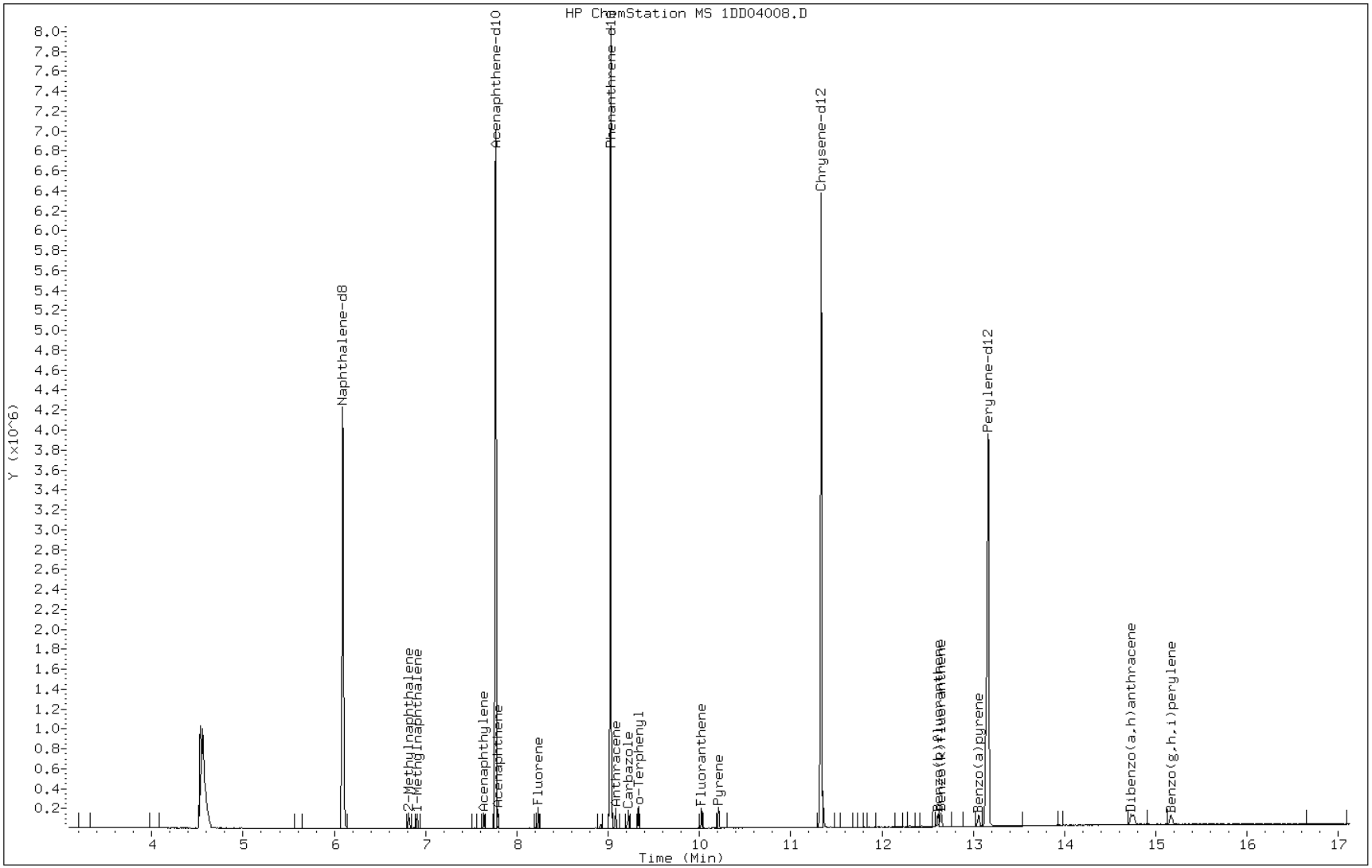
M - Compound response manually integrated.

Data File: 1DD04008.D

Date: 04-APR-2013 14:11

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

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

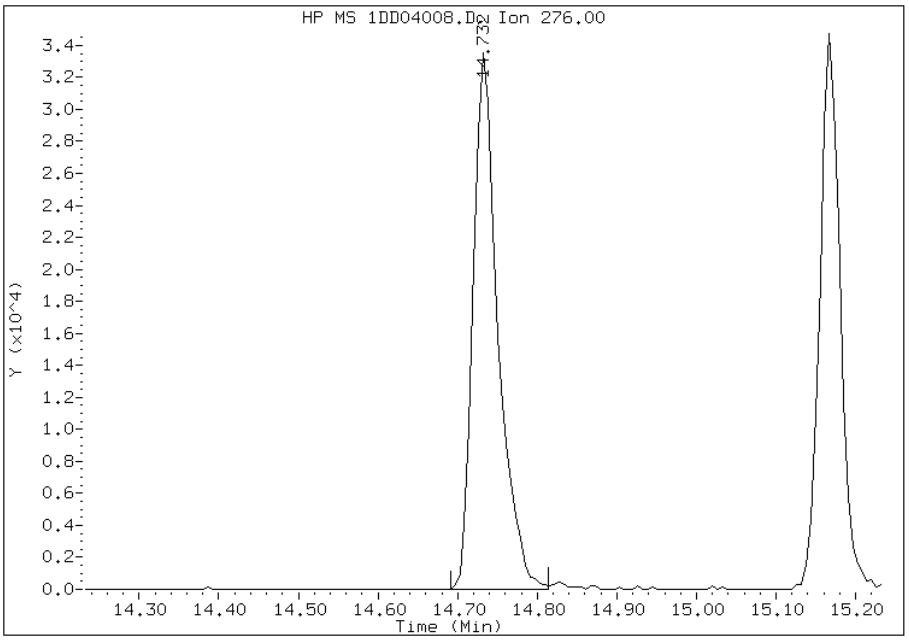
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



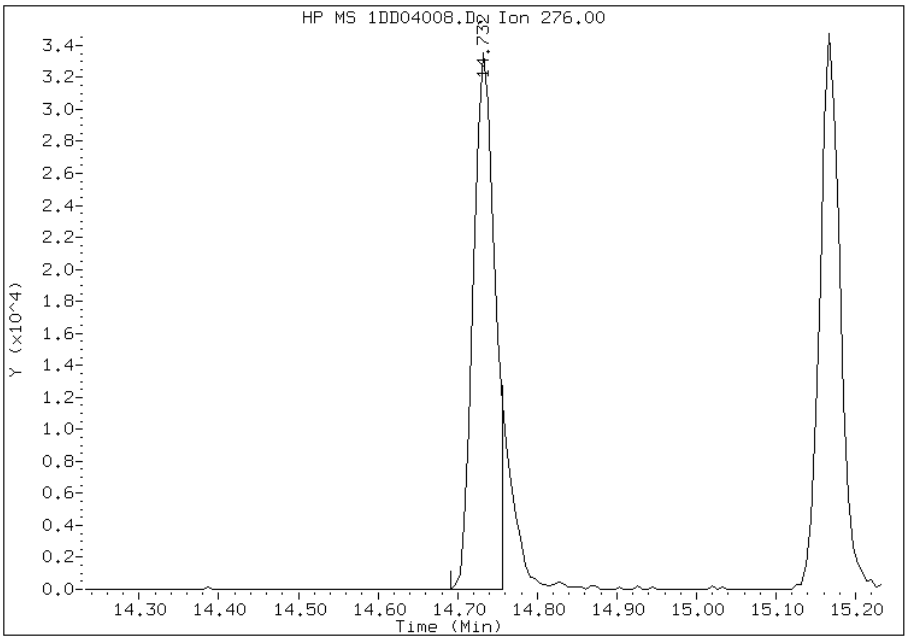
Manual Integration Results

RT: 14.73

Response: 62840

Amount: 1

Conc: 1



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

Manual Integration Report

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

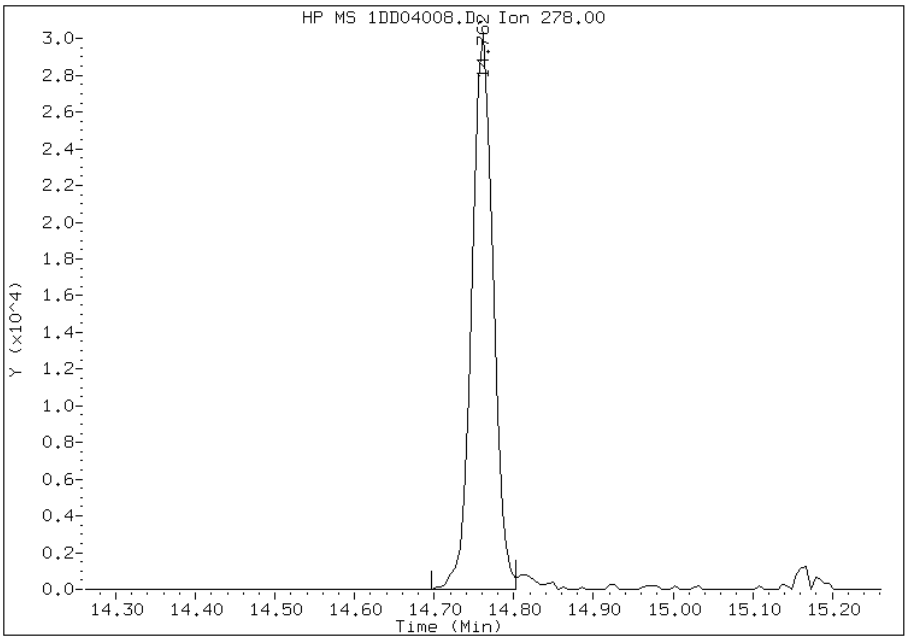
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



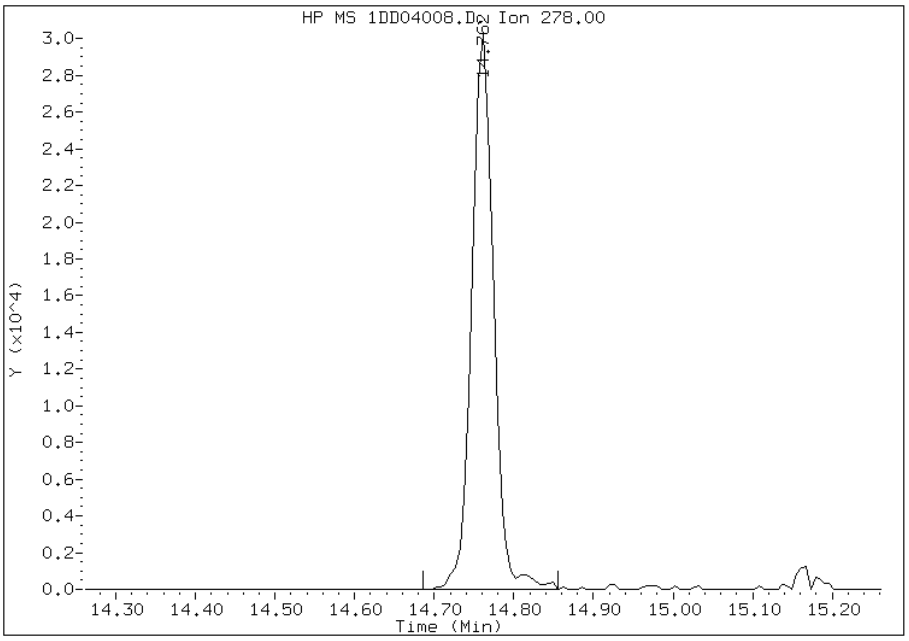
Manual Integration Results

RT: 14.76

Response: 57541

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

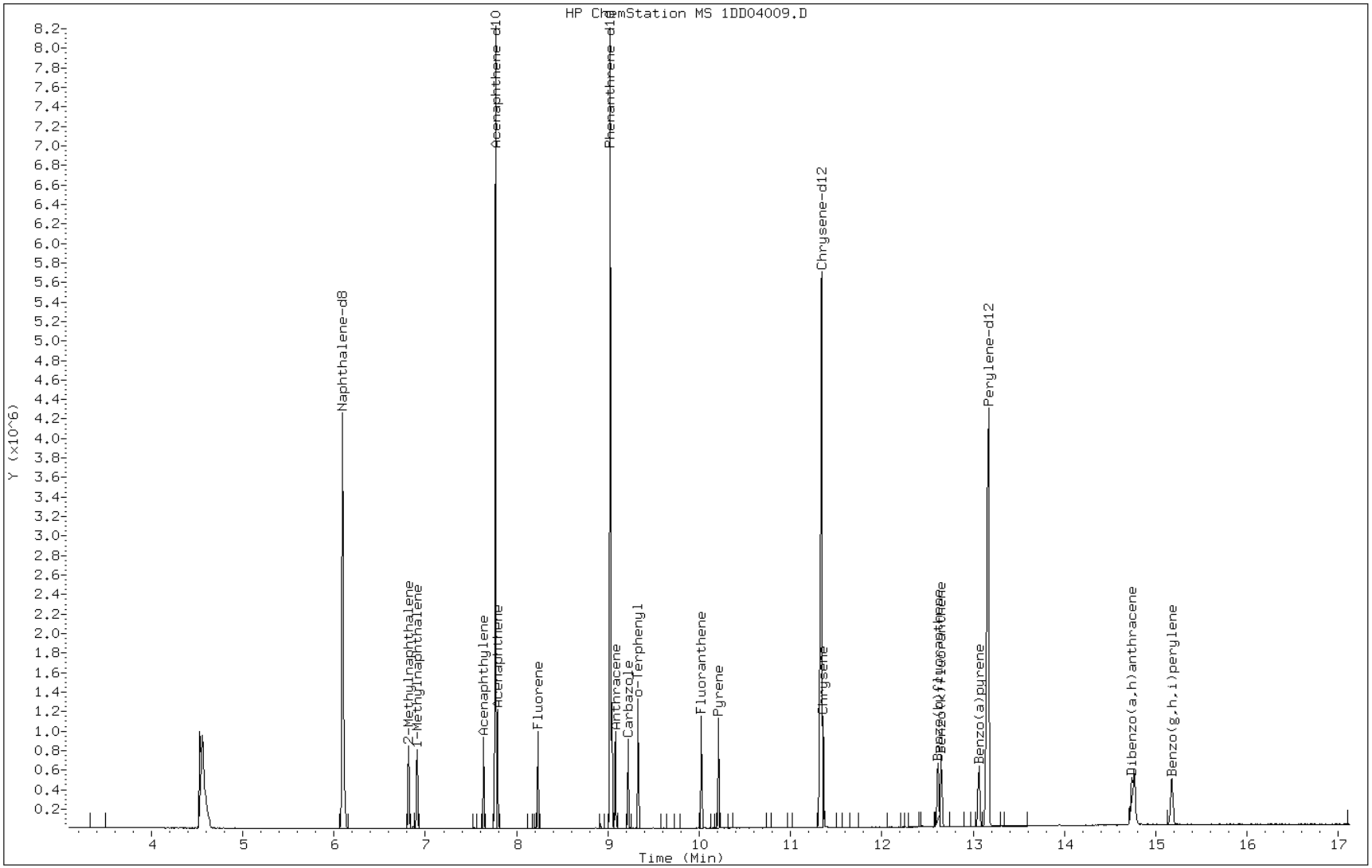
M - Compound response manually integrated.

Data File: 1DD04009.D

Date: 04-APR-2013 14:34

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

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

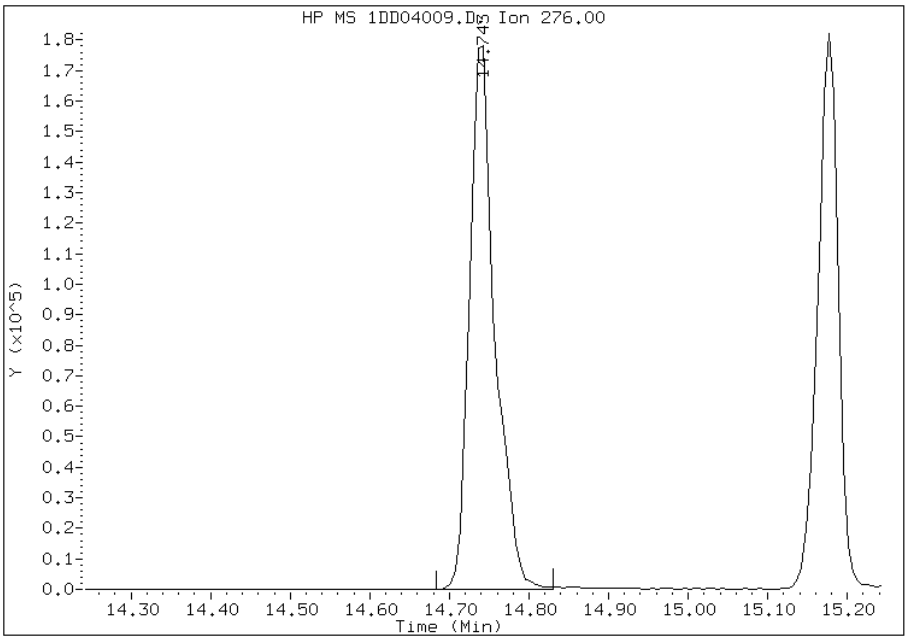
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



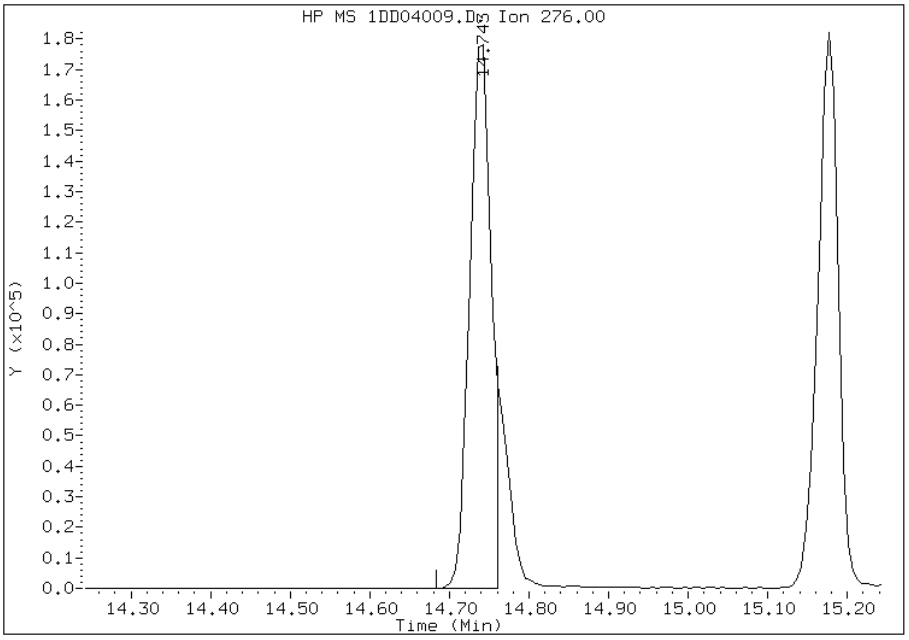
Manual Integration Results

RT: 14.74

Response: 336963

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

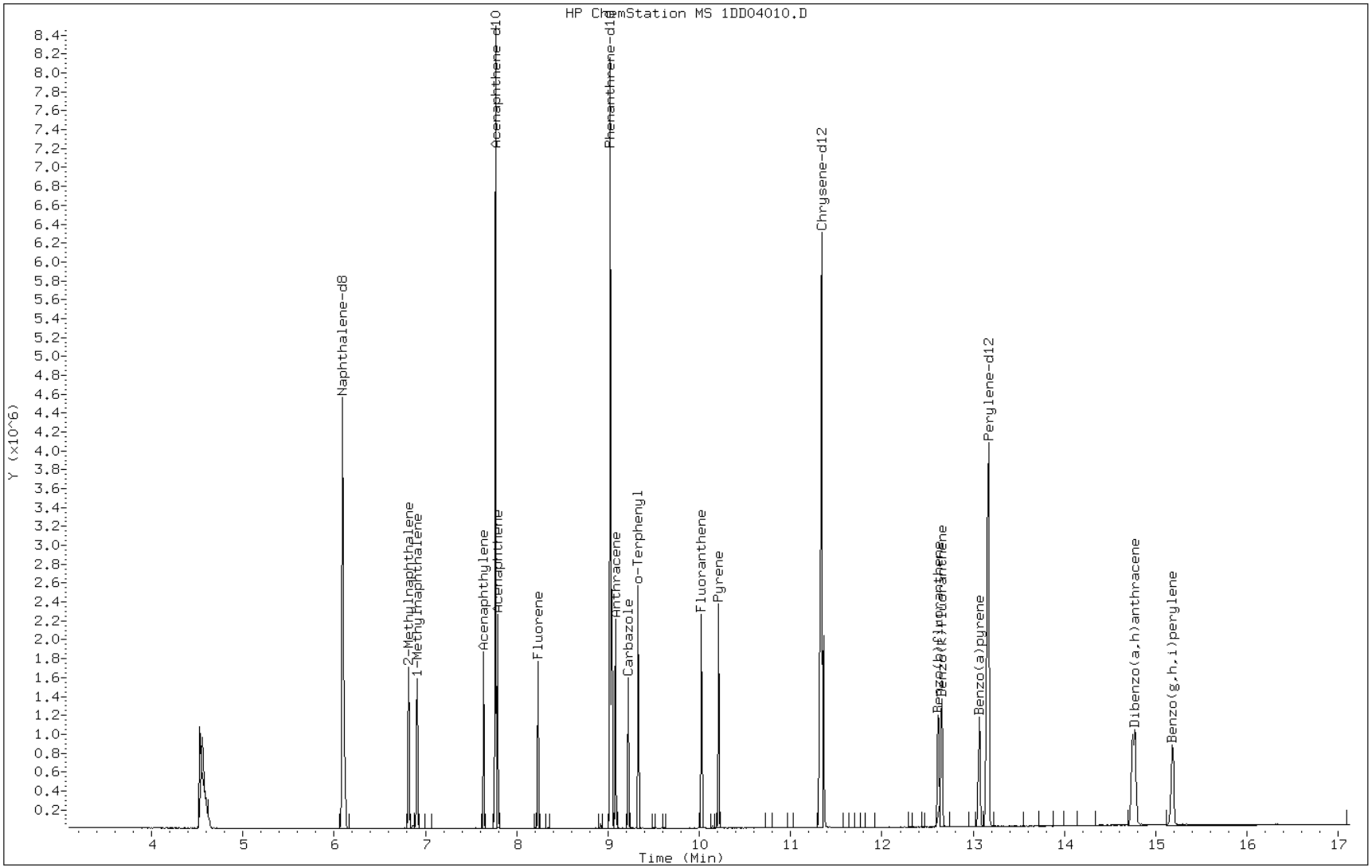
M - Compound response manually integrated.

Data File: 1DD04010.D

Date: 04-APR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

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

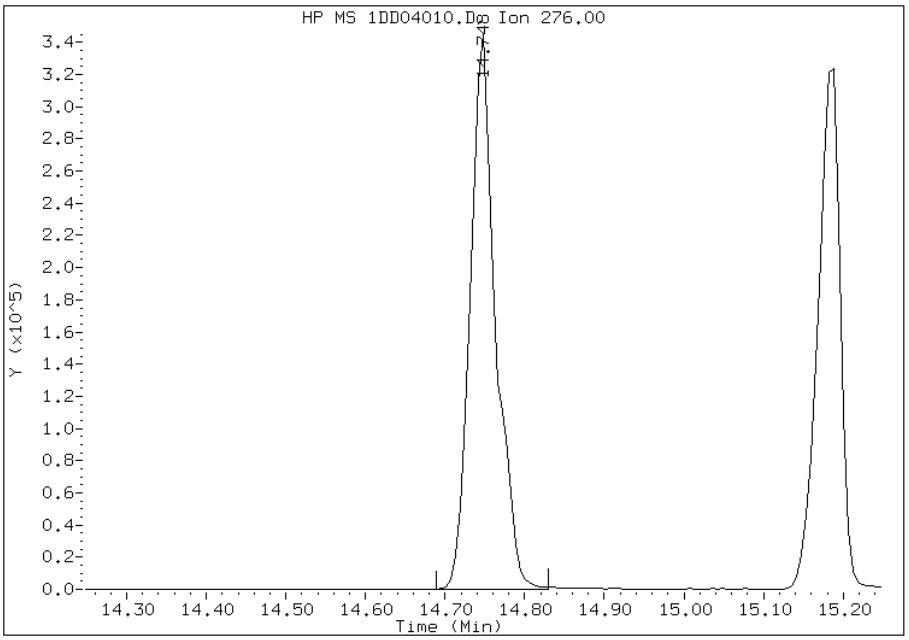
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



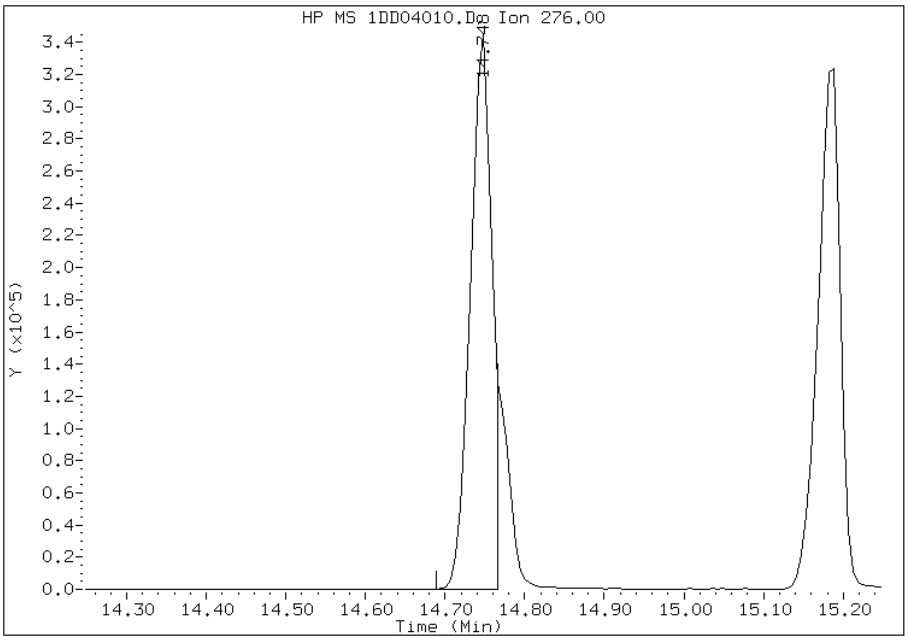
Manual Integration Results

RT: 14.75

Response: 647015

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

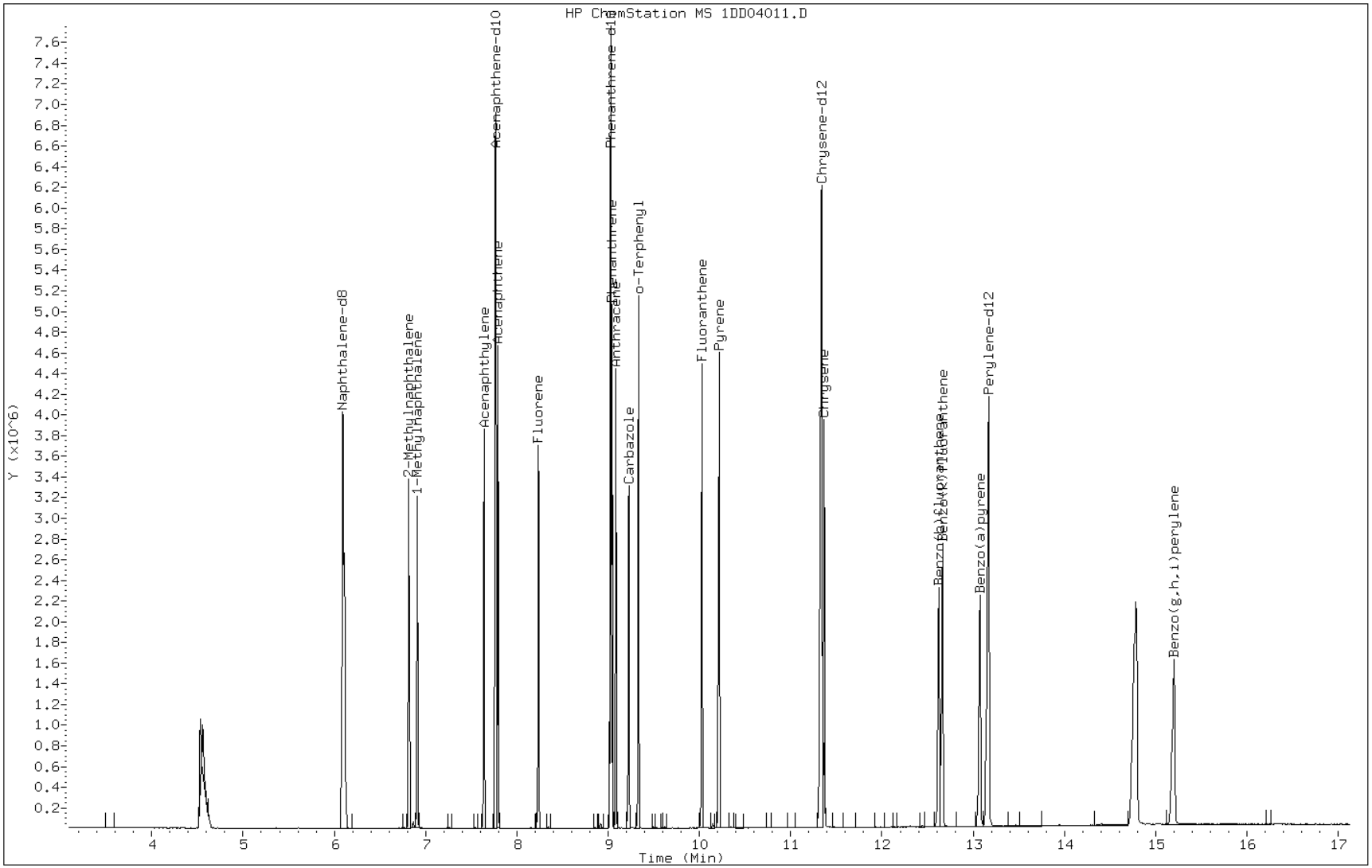
M - Compound response manually integrated.

Data File: 1DD04011.D

Date: 04-APR-2013 15:19

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

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

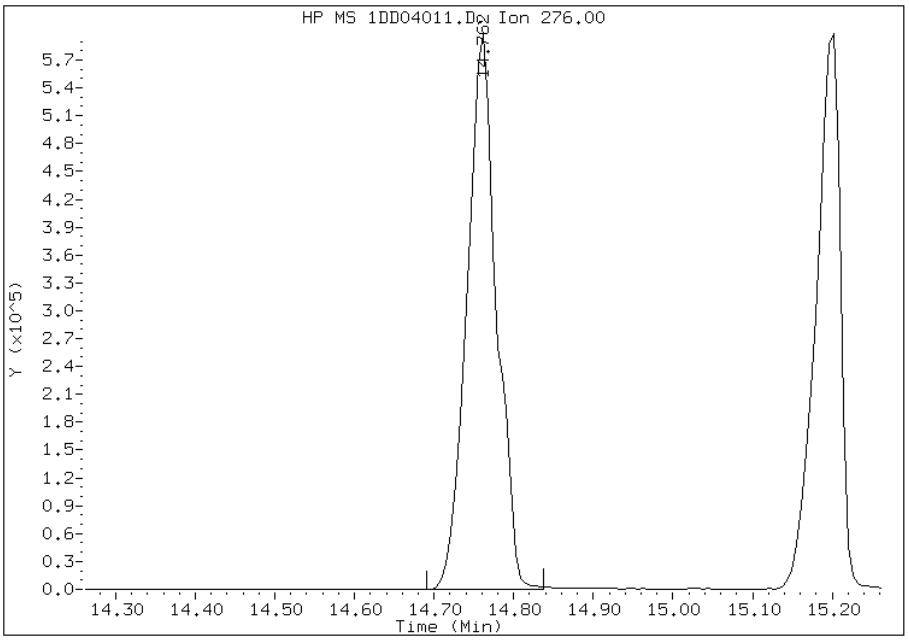
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



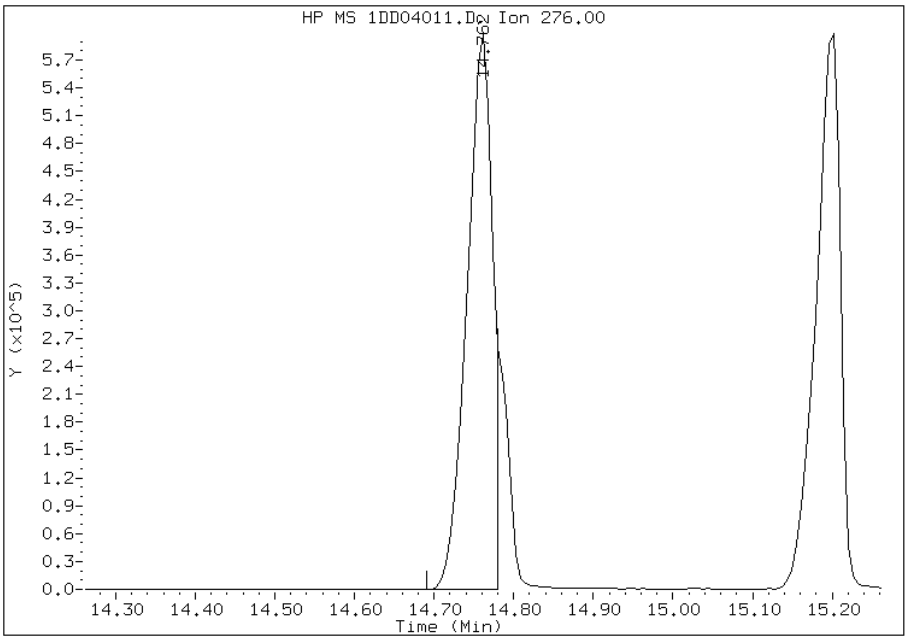
Manual Integration Results

RT: 14.76

Response: 1333044

Amount: 20

Conc: 20



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

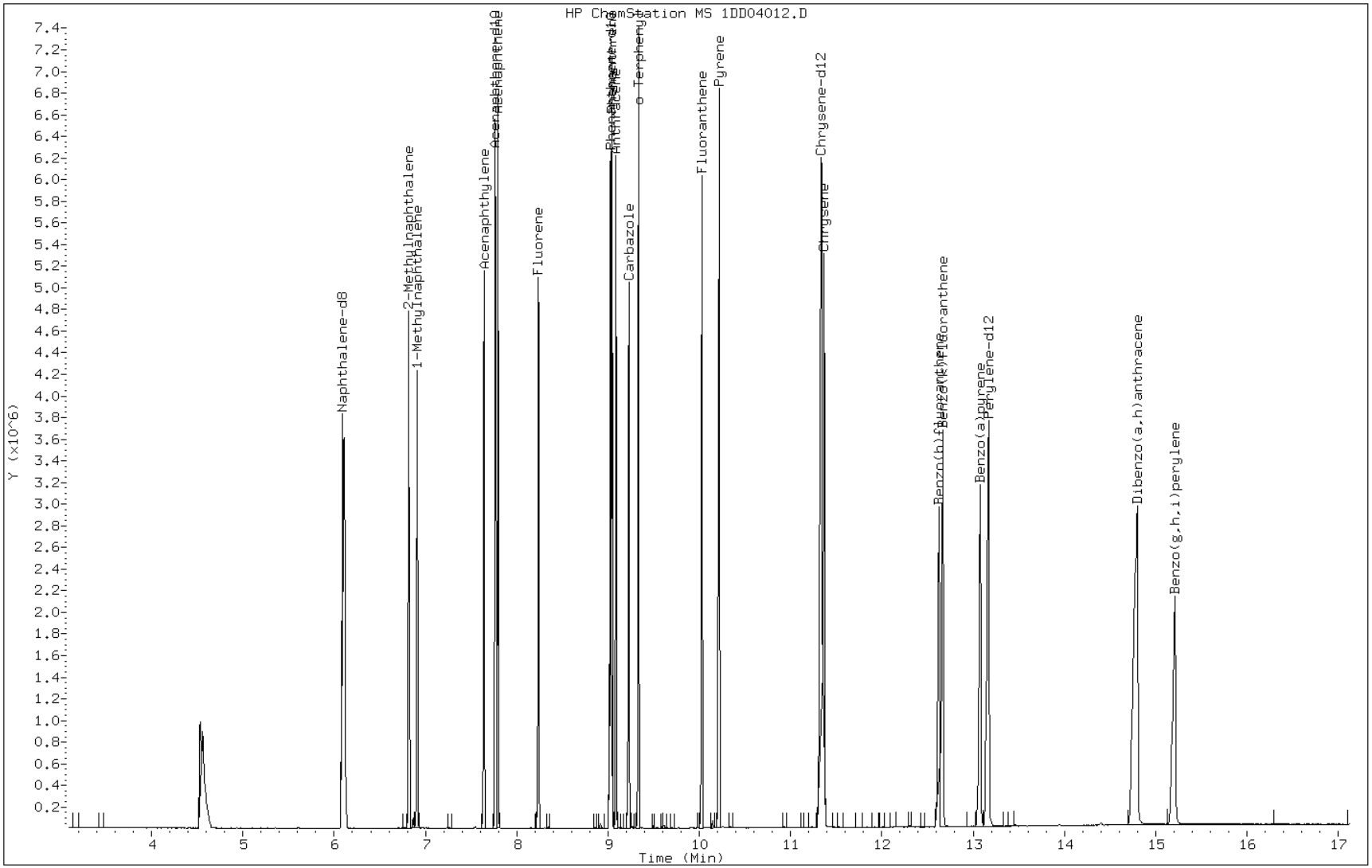
M - Compound response manually integrated.

Data File: 1DD04012.D

Date: 04-APR-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

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

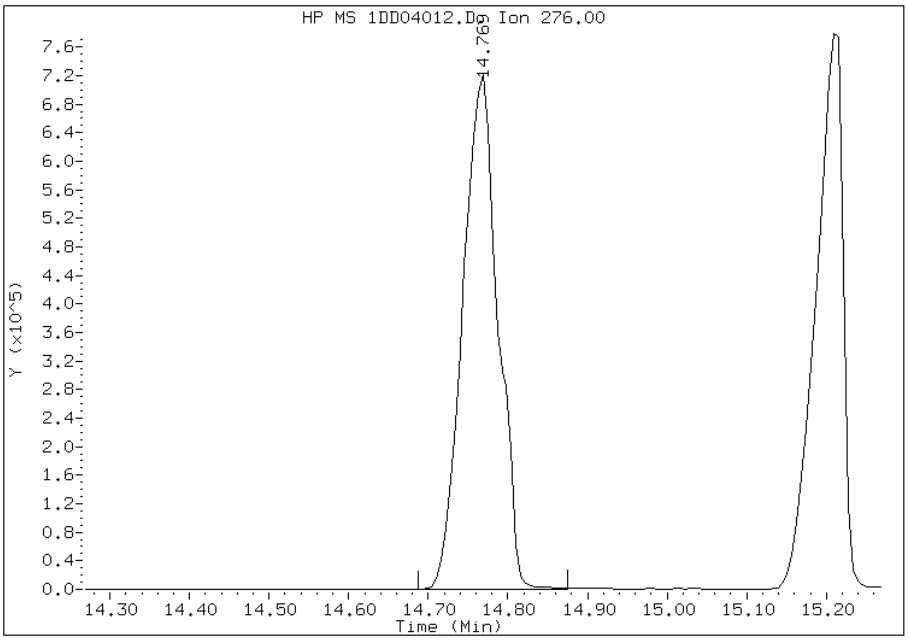
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



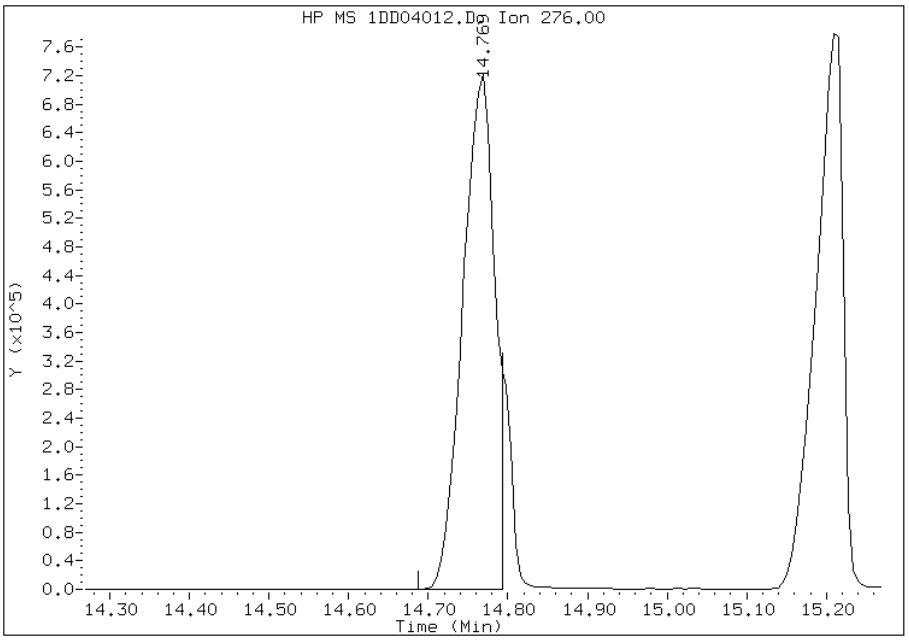
Manual Integration Results

RT: 14.77

Response: 2011375

Amount: 32

Conc: 32



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

QC Flag Legend

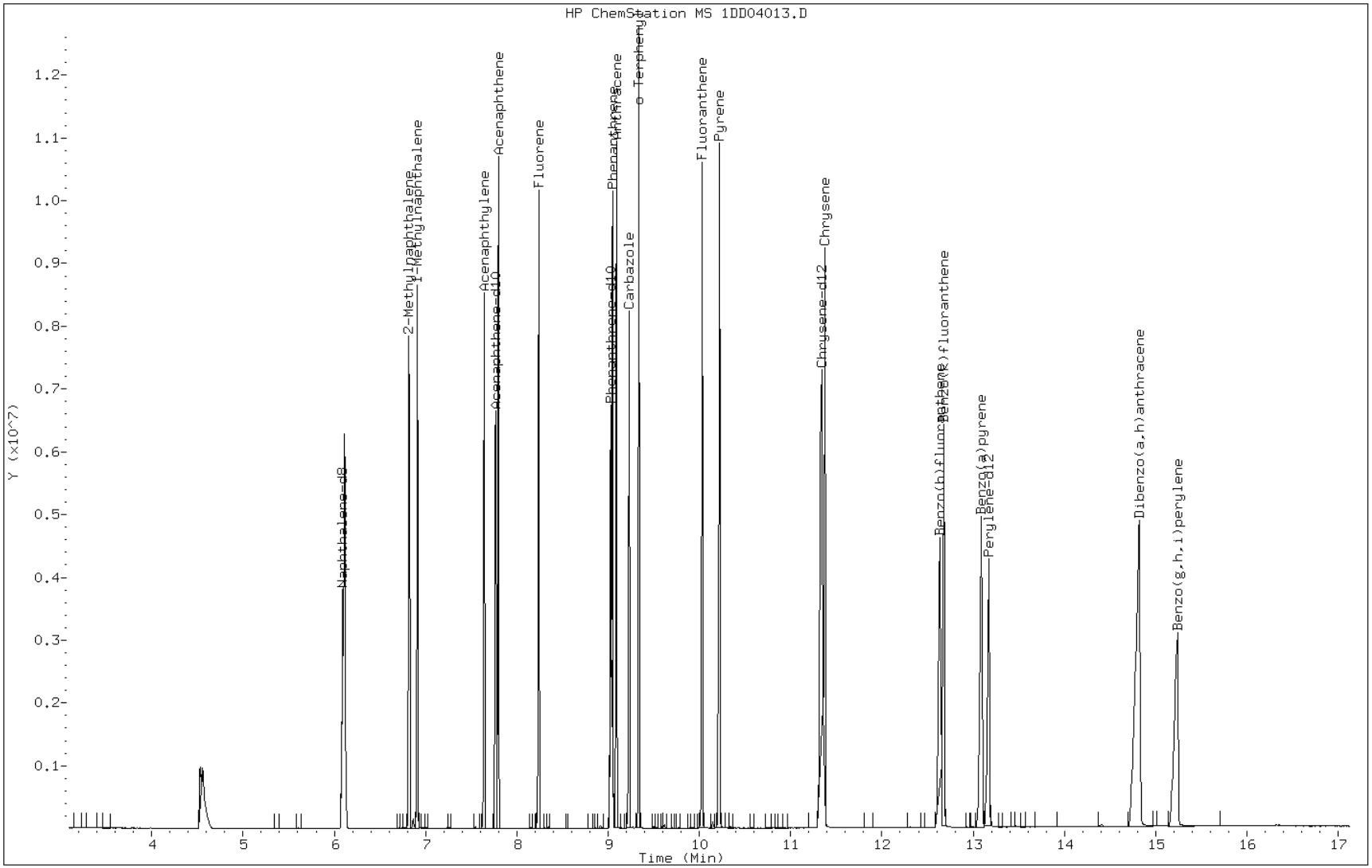
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

Date: 04-APR-2013 16:04

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

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

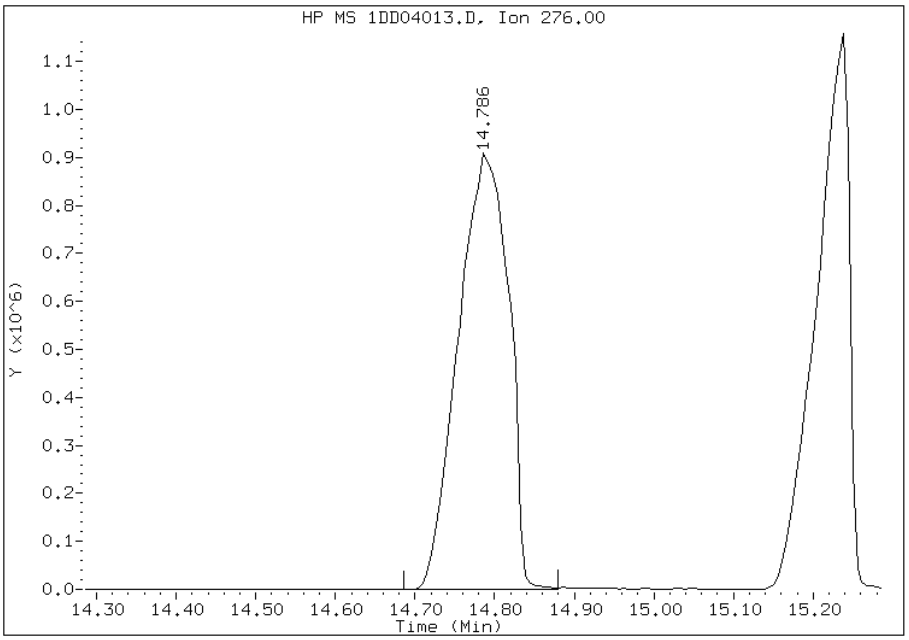
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



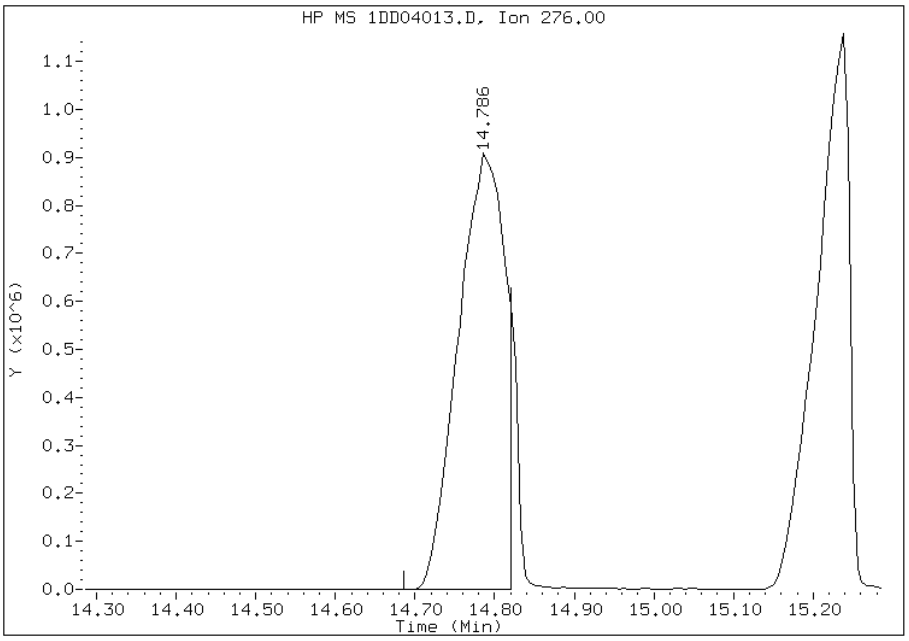
Manual Integration Results

RT: 14.79

Response: 3754268

Amount: 57

Conc: 57



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab Sample ID: ICV 660-136370/10 Calibration Date: 04/11/2013 14:25

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD11010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	0.9667	0.0000	17900	20000	-10.6	35.0
2-Methylnaphthalene	Lin	0.6730	0.7057	0.0000	19800	20000	-1.1	35.0
1-Methylnaphthalene	Ave	0.6907	0.6750	0.0000	19500	20000	-2.3	35.0
Acenaphthylene	Ave	1.695	1.600	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Ave	1.021	0.9034	0.0000	17700	20000	-11.6	35.0
Fluorene	Ave	1.300	1.293	0.0000	19900	20000	-0.6	35.0
Phenanthrene	Qua	1.293	1.058	0.0000	18100	20000	-9.4	35.0
Anthracene	Ave	1.161	1.108	0.0000	19100	20000	-4.6	35.0
Carbazole	Ave	1.082	1.002	0.0000	18500	20000	-7.3	35.0
Fluoranthene	Ave	1.298	1.281	0.0000	19700	20000	-1.3	35.0
Pyrene	Ave	1.138	0.9796	0.0000	17200	20000	-13.9	35.0
Benzo[a]anthracene	LinF	1.279	1.089	0.0000	19300	20000	-3.7	35.0
Chrysene	Ave	1.119	0.9569	0.0000	17100	20000	-14.5	35.0
Benzo[b]fluoranthene	Ave	1.010	0.9917	0.0000	19600	20000	-1.8	35.0
Benzo[k]fluoranthene	Ave	1.143	1.000	0.0000	17500	20000	-12.5	35.0
Benzo[a]pyrene	Ave	1.044	0.8988	0.0000	17200	20000	-13.9	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8637	0.0000	17300	20000	-13.6	35.0
Dibenz(a,h)anthracene	Lin	1.014	0.9353	0.0000	18700	20000	-6.5	35.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9212	0.0000	18800	20000	-5.9	35.0
o-Terphenyl	Lin	0.5859	0.5690	0.0000	17900	20000	-10.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11010.D
Lab Smp Id: ICV-1448440
Inj Date : 11-APR-2013 14:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	273342	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	204687	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	380421	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	108232	17.8704	17.8703
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	501991	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	491170	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	132124	17.8815	17.8815
	3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	96442	19.7889	19.7889
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	92254	19.5465	19.5464
	5 Acenaphthylene	152	4.674	4.675	(0.981)	163781	18.8832	18.8832
	7 Acenaphthene	154	4.780	4.781	(1.004)	92455	17.6882	17.6882
	9 Fluorene	166	5.098	5.104	(1.070)	132282	19.8871	19.8871
	11 Phenanthrene	178	5.721	5.722	(1.003)	201336	18.1160	18.1159
	12 Anthracene	178	5.757	5.757	(1.009)	210753	19.0830	19.0829
	13 Carbazole	167	5.863	5.863	(1.028)	190681	18.5382	18.5381
	15 Fluoranthene	202	6.551	6.557	(1.148)	243606	19.7397	19.7396
	16 Pyrene	202	6.721	6.722	(0.880)	245865	17.2161	17.2160

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	273405	19.2602	19.2602
19 Chrysene	228	7.662	7.663	(1.003)	240185	17.1039	17.1038
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	243541	19.6314	19.6313
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	245569	17.4935	17.4935
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	220738	17.2134	17.2134
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	212104	17.2880	17.2879(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.130)	229693	18.7094	18.7094
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	226235	18.8222	18.8221

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11010.D

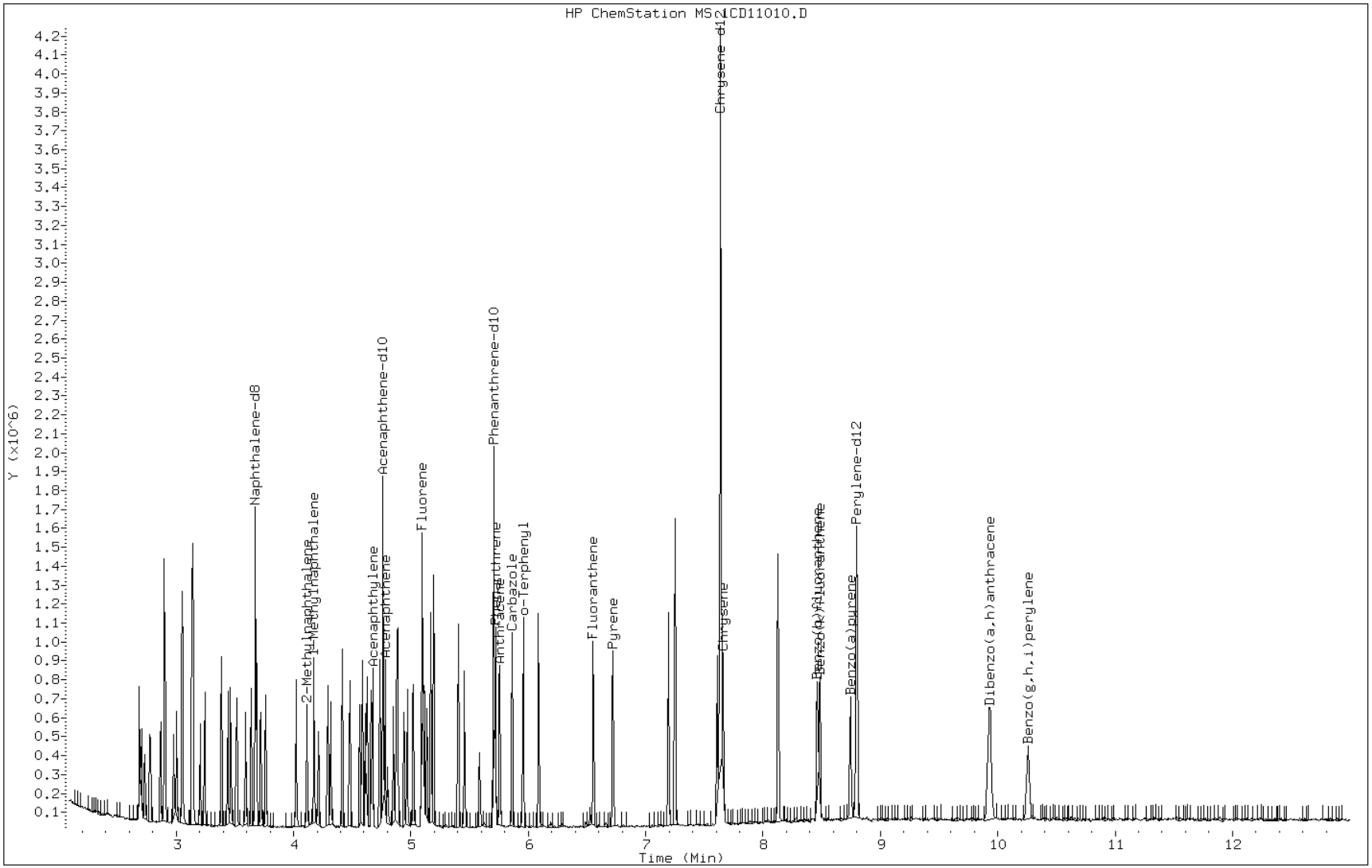
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CD11010.D
Inj. Date and Time: 11-APR-2013 14:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

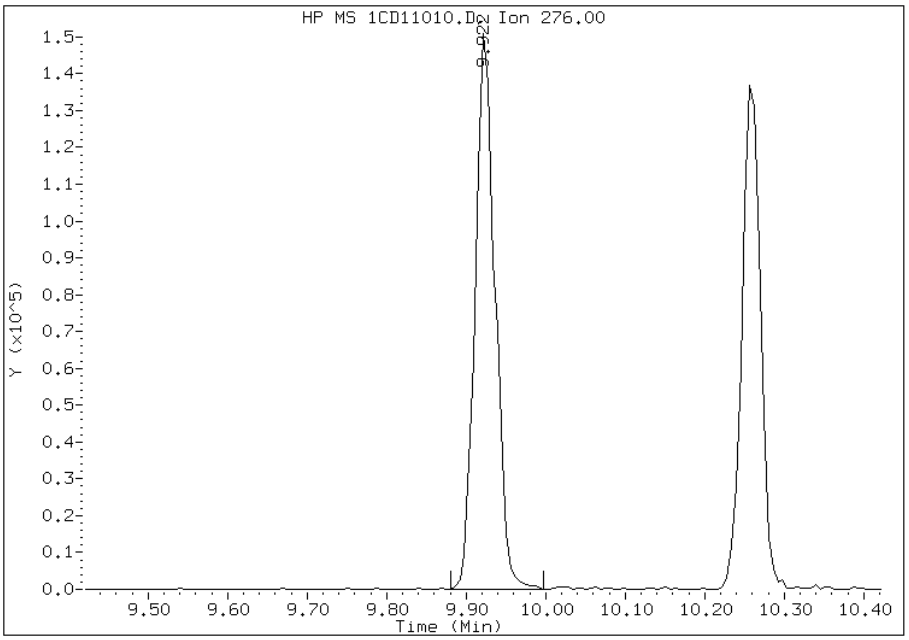
Processing Integration Results

RT: 9.92

Response: 260276

Amount: 21

Conc: 21



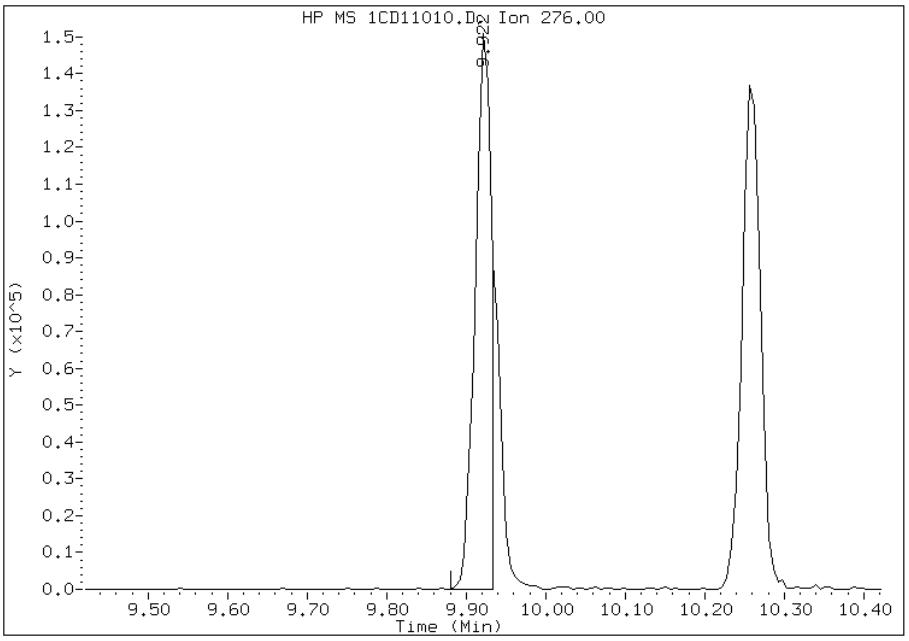
Manual Integration Results

RT: 9.92

Response: 212104

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:46
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab Sample ID: CCVIS 660-136655/3 Calibration Date: 04/19/2013 11:24

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.069	0.0000	19800	20000	-1.1	20.0
2-Methylnaphthalene	Lin	0.6730	0.6717	0.0000	18800	20000	-5.8	20.0
1-Methylnaphthalene	Ave	0.6907	0.6224	0.0000	18000	20000	-9.9	20.0
Acenaphthylene	Ave	1.695	1.755	0.0000	20700	20000	3.5	20.0
Acenaphthene	Ave	1.021	1.005	0.0000	19700	20000	-1.6	20.0
Fluorene	Ave	1.300	1.334	0.0000	20500	20000	2.6	20.0
Phenanthrene	Qua	1.293	1.138	0.0000	19500	20000	-2.6	20.0
Anthracene	Ave	1.161	1.248	0.0000	21500	20000	7.5	20.0
Carbazole	Ave	1.082	1.004	0.0000	18600	20000	-7.1	20.0
Fluoranthene	Ave	1.298	1.258	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.138	1.062	0.0000	18700	20000	-6.7	20.0
Benzo[a]anthracene	LinF	1.279	1.069	0.0000	18900	20000	-5.5	20.0
Chrysene	Ave	1.119	1.051	0.0000	18800	20000	-6.1	20.0
Benzo[b]fluoranthene	Ave	1.010	0.9738	0.0000	19300	20000	-3.6	20.0
Benzo[k]fluoranthene	Ave	1.143	1.137	0.0000	19900	20000	-0.6	20.0
Benzo[a]pyrene	Ave	1.044	1.046	0.0000	20000	20000	0.1	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8495	0.0000	17000	20000	-14.9	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9157	0.0000	18300	20000	-8.4	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9483	0.0000	19400	20000	-3.1	20.0
o-Terphenyl	Lin	0.5859	0.5853	0.0000	18400	20000	-8.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 19-APR-2013 11:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.657	3.657	(1.000) 187771	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000) 127904	40.0000	(H)
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000) 242114	40.0000	(H)
$	14 o-Terphenyl	230	5.933	5.933	(1.043) 70849	20.0000	18.3607(H)
*	18 Chrysene-d12	240	7.615	7.615	(1.000) 311596	40.0000	
*	23 Perylene-d12	264	8.768	8.768	(1.000) 321703	40.0000	(H)
	2 Naphthalene	128	3.669	3.669	(1.003) 100389	20.0000	19.7781
	3 2-Methylnaphthalene	142	4.092	4.092	(1.119) 63061	20.0000	18.8494
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137) 58434	20.0000	18.0229
	5 Acenaphthylene	152	4.657	4.657	(0.983) 112223	20.0000	20.7062
	7 Acenaphthene	154	4.763	4.763	(1.005) 64288	20.0000	19.6829
	9 Fluorene	166	5.080	5.080	(1.072) 85320	20.0000	20.5271(H)
	11 Phenanthrene	178	5.698	5.698	(1.002) 137719	20.0000	19.4791(H)
	12 Anthracene	178	5.733	5.733	(1.008) 151071	20.0000	21.4930(H)
	13 Carbazole	167	5.845	5.845	(1.028) 121573	20.0000	18.5712(H)
	15 Fluoranthene	202	6.533	6.533	(1.149) 152330	20.0000	19.3946(H)
	16 Pyrene	202	6.698	6.698	(0.880) 165409	20.0000	18.6595
	17 Benzo(a)anthracene	228	7.610	7.610	(0.999) 166545	20.0000	18.9012
	19 Chrysene	228	7.639	7.639	(1.003) 163694	20.0000	18.7795
	20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962) 156644	20.0000	19.2783(H)
	21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964) 182853	20.0000	19.8875(H)
	22 Benzo(a)pyrene	252	8.715	8.715	(0.994) 168183	20.0000	20.0239(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127) 136650	20.0000	17.0156(MH)
	25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128) 147283	20.0000	18.3258(H)
	26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.164) 152540	20.0000	19.3762(H)

QC Flag Legend

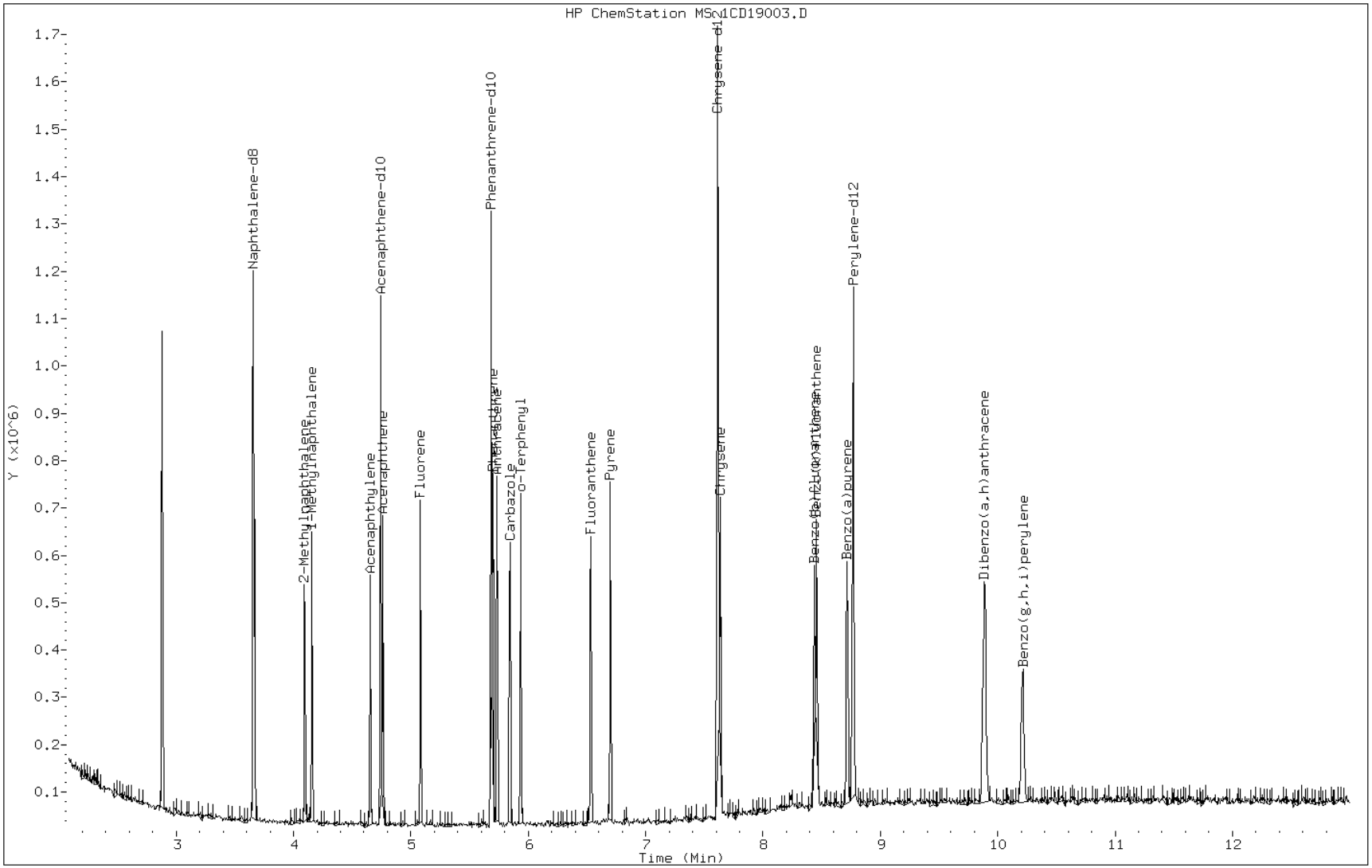
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD19003.D

Date: 19-APR-2013 11:24

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD19003.D
Inj. Date and Time: 19-APR-2013 11:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

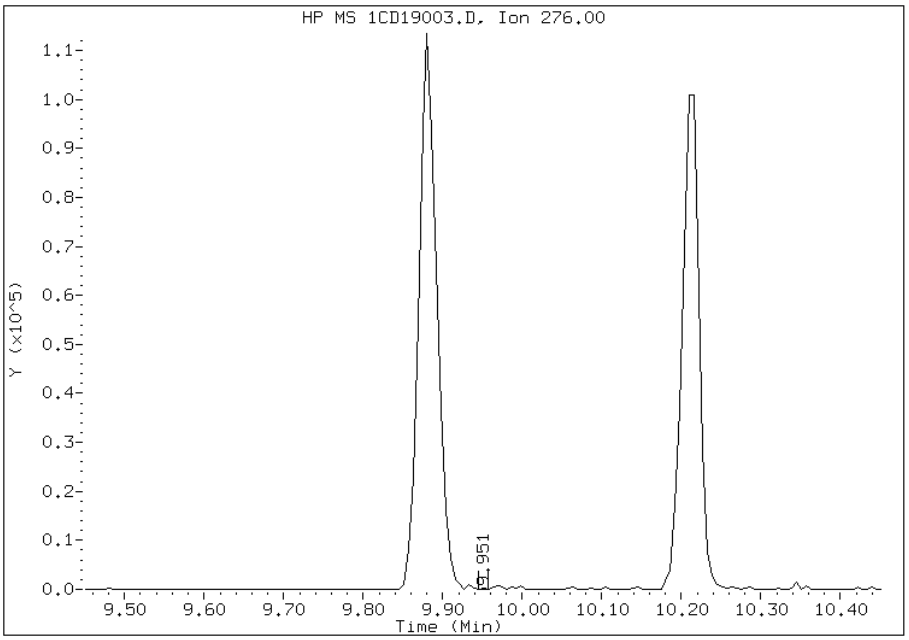
Processing Integration Results

RT: 9.95

Response: 122

Amount: 1

Conc: 1



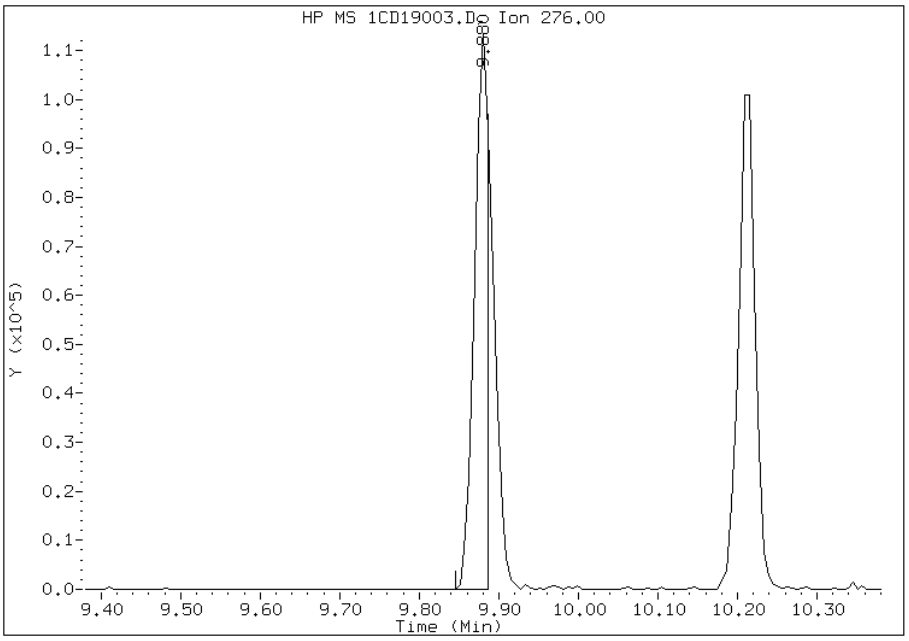
Manual Integration Results

RT: 9.88

Response: 136650

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 11:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab Sample ID: CCVIS 660-136698/3 Calibration Date: 04/22/2013 11:50

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.007	0.0000	18600	20000	-6.9	20.0
2-Methylnaphthalene	Lin	0.6730	0.6342	0.0000	17800	20000	-10.9	20.0
1-Methylnaphthalene	Ave	0.6907	0.6422	0.0000	18600	20000	-7.0	20.0
Acenaphthylene	Ave	1.695	1.674	0.0000	19800	20000	-1.2	20.0
Acenaphthene	Ave	1.021	1.163	0.0000	22800	20000	13.9	20.0
Fluorene	Ave	1.300	1.393	0.0000	21400	20000	7.2	20.0
Phenanthrene	Qua	1.293	1.146	0.0000	19600	20000	-1.9	20.0
Anthracene	Ave	1.161	1.220	0.0000	21000	20000	5.1	20.0
Carbazole	Ave	1.082	1.078	0.0000	19900	20000	-0.3	20.0
Fluoranthene	Ave	1.298	1.216	0.0000	18700	20000	-6.3	20.0
Pyrene	Ave	1.138	1.108	0.0000	19500	20000	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.135	0.0000	20100	20000	0.4	20.0
Chrysene	Ave	1.119	1.052	0.0000	18800	20000	-6.0	20.0
Benzo[b]fluoranthene	Ave	1.010	1.133	0.0000	22400	20000	12.1	20.0
Benzo[k]fluoranthene	Ave	1.143	1.026	0.0000	17900	20000	-10.3	20.0
Benzo[a]pyrene	Ave	1.044	1.083	0.0000	20700	20000	3.7	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9053	0.0000	18100	20000	-9.6	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9399	0.0000	18800	20000	-6.0	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9293	0.0000	19000	20000	-5.1	20.0
o-Terphenyl	Lin	0.5859	0.5783	0.0000	18200	20000	-9.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 22-APR-2013 11:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	3.651	3.651	(1.000)	177233	40.0000	(H)
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	115325	40.0000	
* 10	Phenanthrene-d10	188	5.680	5.680	(1.000)	215585	40.0000	(H)
$ 14	o-Terphenyl	230	5.933	5.933	(1.045)	62335	20.0000	18.1504
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	268224	40.0000	(H)
* 23	Perylene-d12	264	8.762	8.762	(1.000)	275000	40.0000	(H)
2	Naphthalene	128	3.663	3.663	(1.003)	89200	20.0000	18.6186
3	2-Methylnaphthalene	142	4.092	4.092	(1.121)	56201	20.0000	17.8129(H)
4	1-Methylnaphthalene	142	4.151	4.151	(1.137)	56906	20.0000	18.5953(H)
5	Acenaphthylene	152	4.651	4.651	(0.981)	96546	20.0000	19.7566
7	Acenaphthene	154	4.757	4.757	(1.004)	67059	20.0000	22.7707
9	Fluorene	166	5.080	5.080	(1.072)	80335	20.0000	21.4359
11	Phenanthrene	178	5.698	5.698	(1.003)	123552	20.0000	19.6267(H)
12	Anthracene	178	5.733	5.733	(1.009)	131526	20.0000	21.0150(H)
13	Carbazole	167	5.839	5.839	(1.028)	116223	20.0000	19.9387(H)
15	Fluoranthene	202	6.527	6.527	(1.149)	131029	20.0000	18.7354(H)
16	Pyrene	202	6.692	6.692	(0.879)	148578	20.0000	19.4711(H)
17	Benzo(a)anthracene	228	7.603	7.603	(0.998)	152236	20.0000	20.0710(H)
19	Chrysene	228	7.633	7.633	(1.002)	141105	20.0000	18.8057
20	Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	155786	20.0000	22.4288(H)
21	Benzo(k)fluoranthene	252	8.456	8.456	(0.965)	141020	20.0000	17.9425(H)
22	Benzo(a)pyrene	252	8.709	8.709	(0.994)	148881	20.0000	20.7361(H)
24	Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	124473	20.0000	18.0896(MH)
25	Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	129235	20.0000	18.7992(H)
26	Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	127780	20.0000	18.9876(H)

QC Flag Legend

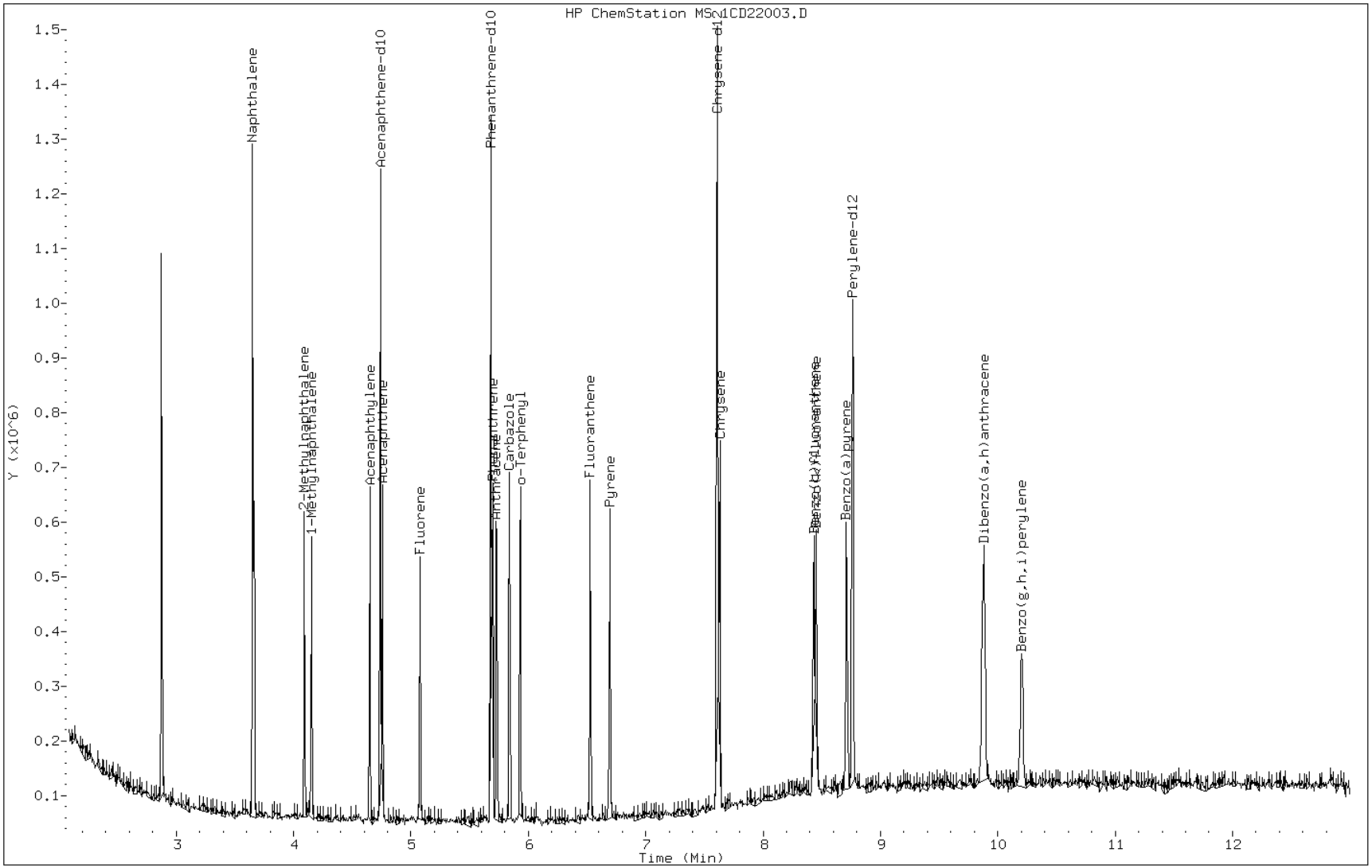
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22003.D

Date: 22-APR-2013 11:50

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD22003.D
Inj. Date and Time: 22-APR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

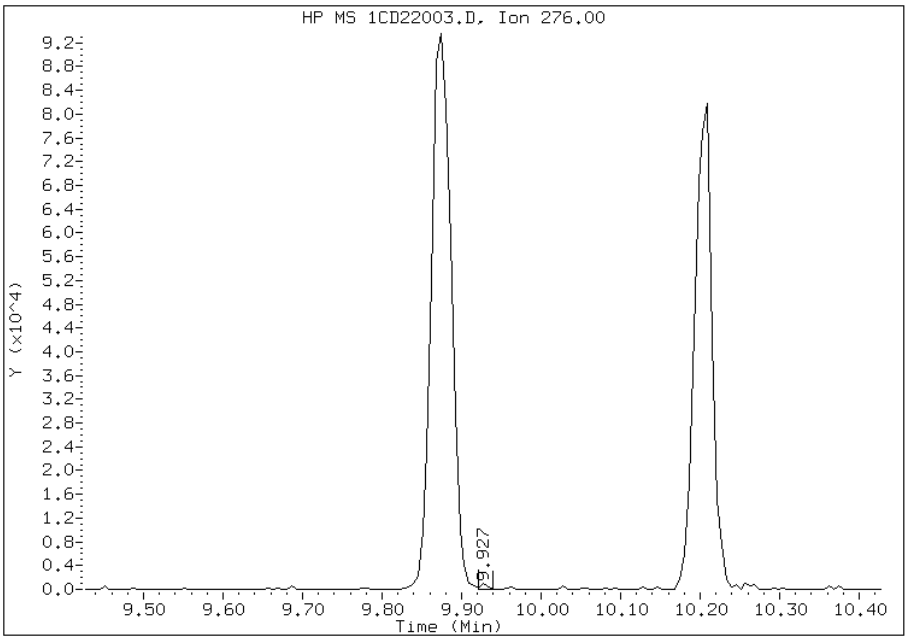
Processing Integration Results

RT: 9.93

Response: 617

Amount: 1

Conc: 1



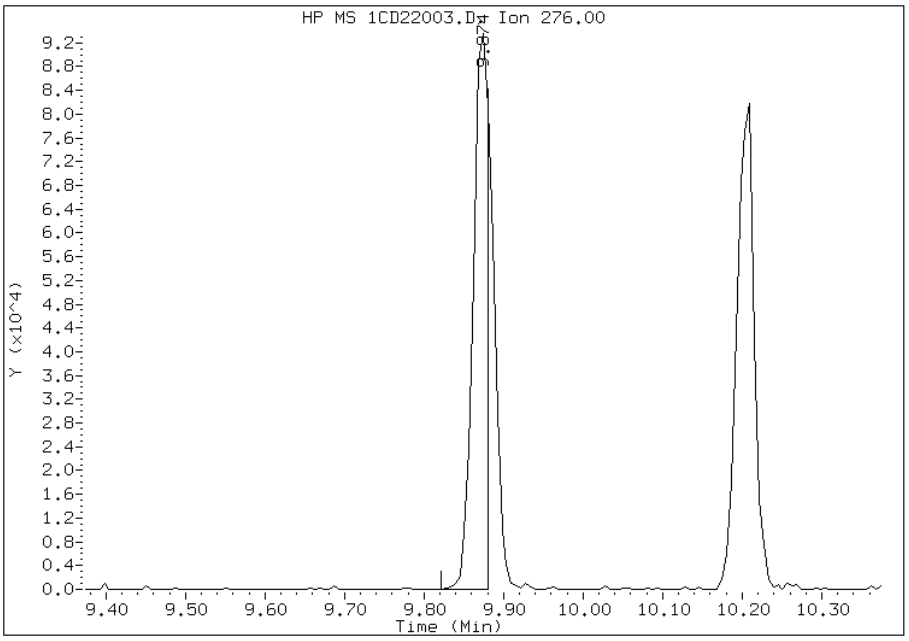
Manual Integration Results

RT: 9.87

Response: 124473

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

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

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

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

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

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

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

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

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

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

QC Flag Legend

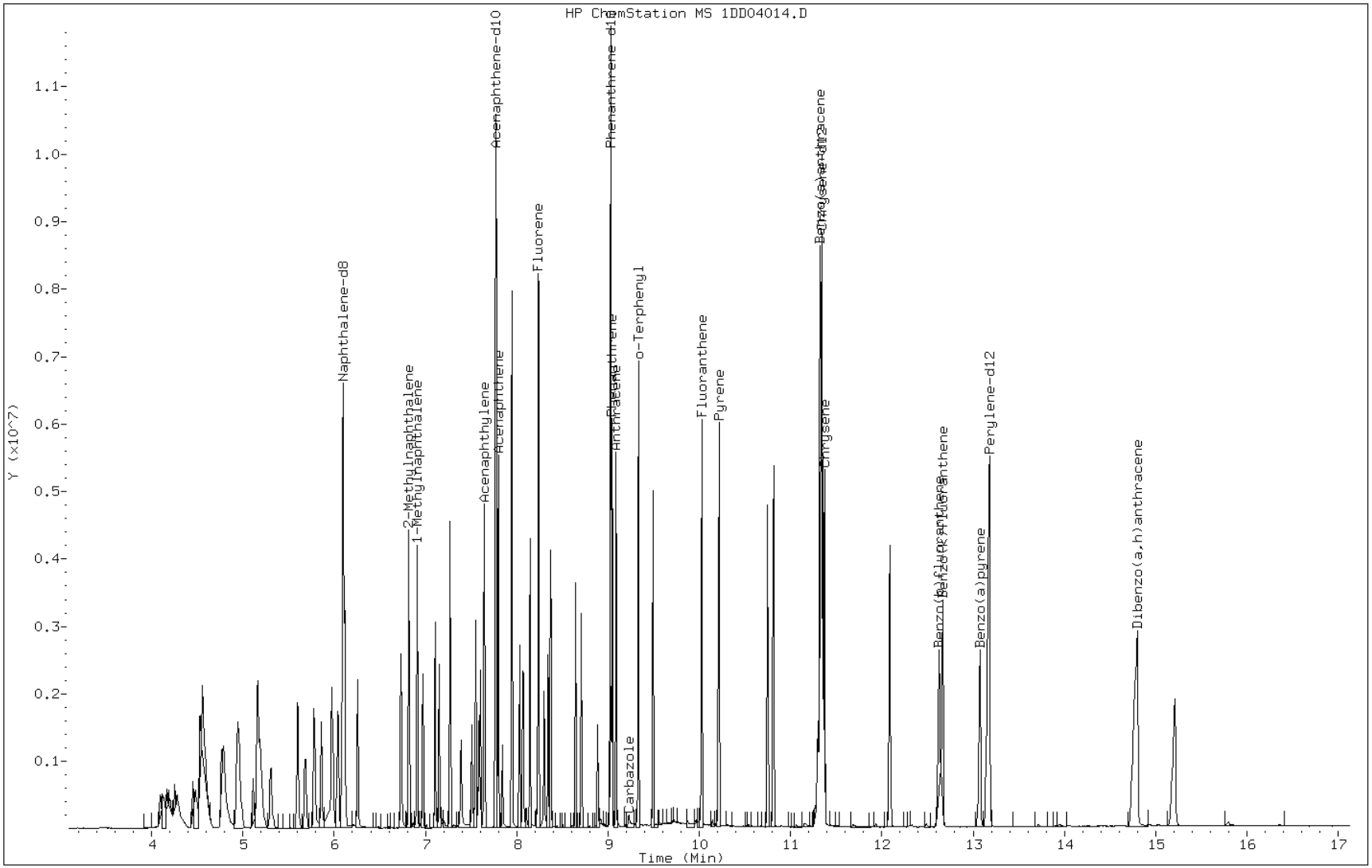
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04014.D

Date: 04-APR-2013 16:27

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

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

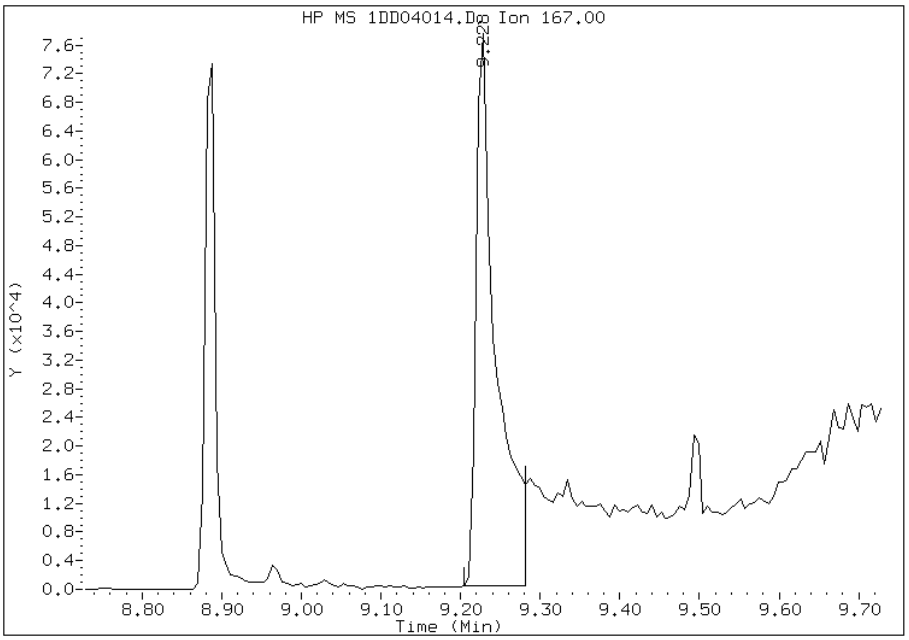
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



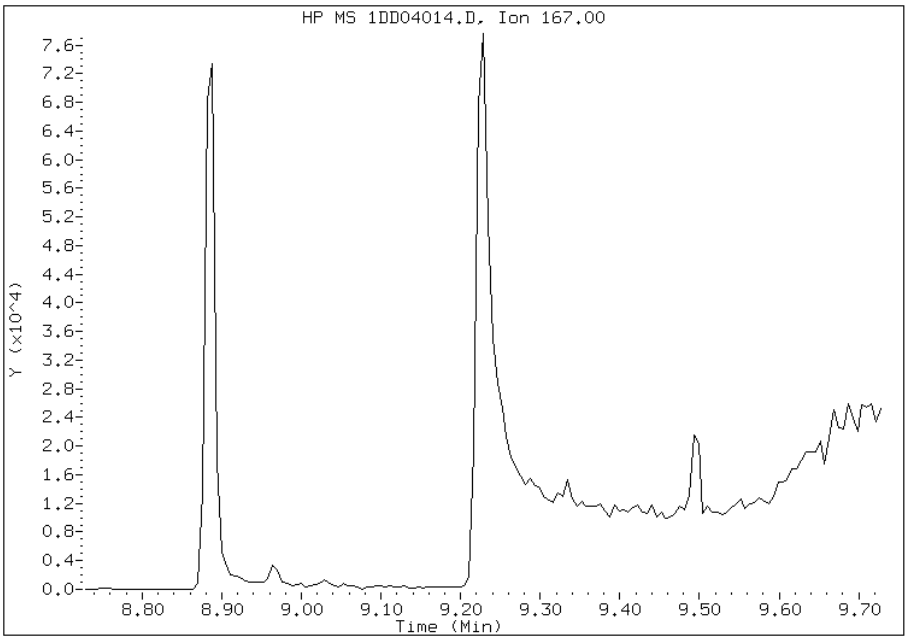
Manual Integration Results

RT: 9.23

Response: 1319041

Amount: 14

Conc: 14



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

Manual Integration Report

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

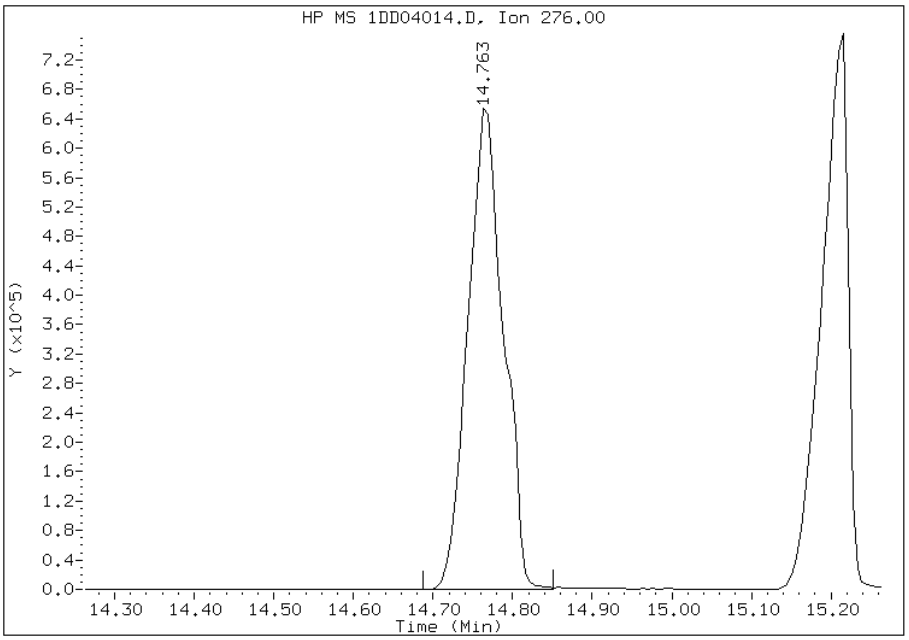
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



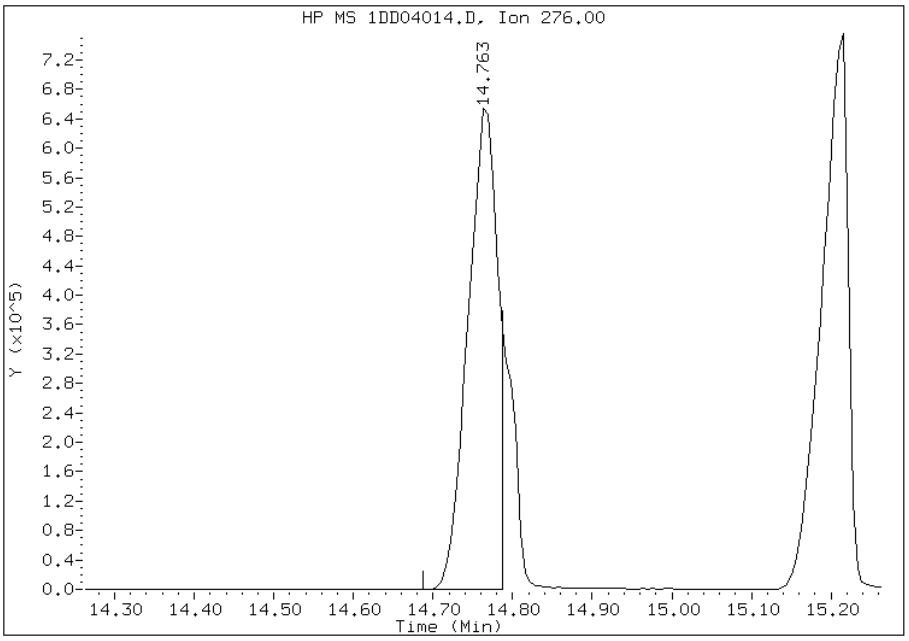
Manual Integration Results

RT: 14.76

Response: 1694283

Amount: 16

Conc: 16



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab Sample ID: CCVIS 660-136733/3 Calibration Date: 04/22/2013 10:43

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

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

Lab File ID: 1DD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9705	0.0000	19500	20000	-2.4	20.0
2-Methylnaphthalene	Ave	0.6418	0.6424	0.0000	20000	20000	0.1	20.0
1-Methylnaphthalene	Ave	0.6061	0.6008	0.0000	19800	20000	-0.9	20.0
Acenaphthylene	Ave	1.693	1.723	0.0000	20400	20000	1.8	20.0
Acenaphthene	Ave	1.045	1.062	0.0000	20300	20000	1.6	20.0
Fluorene	Ave	1.238	1.243	0.0000	20100	20000	0.5	20.0
Phenanthrene	Ave	1.102	1.077	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.094	1.103	0.0000	20200	20000	0.9	20.0
Carbazole	Ave	0.9646	0.9675	0.0000	20100	20000	0.3	20.0
Fluoranthene	Ave	1.134	1.139	0.0000	20100	20000	0.5	20.0
Pyrene	Ave	1.201	1.204	0.0000	20000	20000	0.2	20.0
Benzo[a]anthracene	Ave	1.156	1.052	0.0000	18200	20000	-9.0	20.0
Chrysene	Ave	1.084	1.059	0.0000	19500	20000	-2.3	20.0
Benzo[b]fluoranthene	Ave	0.999	0.9937	0.0000	19900	20000	-0.6	20.0
Benzo[k]fluoranthene	Ave	1.053	1.039	0.0000	19700	20000	-1.3	20.0
Benzo[a]pyrene	Ave	1.004	1.016	0.0000	20200	20000	1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.096	0.0000	20500	20000	2.4	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.018	0.0000	20200	20000	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.033	0.0000	20000	20000	0.2	20.0
o-Terphenyl	Ave	0.6027	0.6226	0.0000	20700	20000	3.3	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22003.D
Lab Smp Id: CCV-1531401
Inj Date : 22-APR-2013 10:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.054	6.054	(1.000)	1796455	40.0000	
*	6 Acenaphthene-d10	164	7.734	7.734	(1.000)	1037513	40.0000	
*	9 Phenanthrene-d10	188	8.998	8.998	(1.000)	1775352	40.0000	(H)
$	13 o-Terphenyl	230	9.309	9.309	(1.035)	552688	20.0000	21(H)
*	17 Chrysene-d12	240	11.307	11.307	(1.000)	1817611	40.0000	(H)
*	22 Perylene-d12	264	13.122	13.122	(1.000)	1852984	40.0000	(H)
	2 Naphthalene	128	6.077	6.077	(1.004)	871717	20.0000	20
	3 2-Methylnaphthalene	142	6.783	6.783	(1.120)	577049	20.0000	20
	4 1-Methylnaphthalene	142	6.877	6.877	(1.136)	539630	20.0000	20
	5 Acenaphthylene	152	7.611	7.611	(0.984)	893717	20.0000	20
	7 Acenaphthene	154	7.764	7.764	(1.004)	551018	20.0000	20
	8 Fluorene	166	8.204	8.204	(1.061)	644885	20.0000	20
	10 Phenanthrene	178	9.015	9.015	(1.002)	956353	20.0000	20(H)
	11 Anthracene	178	9.056	9.056	(1.007)	979308	20.0000	20(H)
	12 Carbazole	167	9.197	9.197	(1.022)	858844	20.0000	20(H)
	14 Fluoranthene	202	10.002	10.002	(1.112)	1011014	20.0000	20(H)
	15 Pyrene	202	10.184	10.184	(0.901)	1093873	20.0000	20(H)
	16 Benzo(a)anthracene	228	11.289	11.289	(0.998)	955977	20.0000	18(H)
	18 Chrysene	228	11.330	11.330	(1.002)	962817	20.0000	20(H)
	19 Benzo(b)fluoranthene	252	12.582	12.582	(0.959)	920620	20.0000	20(H)
	20 Benzo(k)fluoranthene	252	12.623	12.623	(0.962)	962751	20.0000	20(H)
	21 Benzo(a)pyrene	252	13.034	13.034	(0.993)	941426	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.709	14.709	(1.121)	1015743	20.0000	20(MH)
	24 Dibenzo(a,h)anthracene	278	14.732	14.732	(1.123)	942978	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.143	15.143	(1.154)	957388	20.0000	20(H)

QC Flag Legend

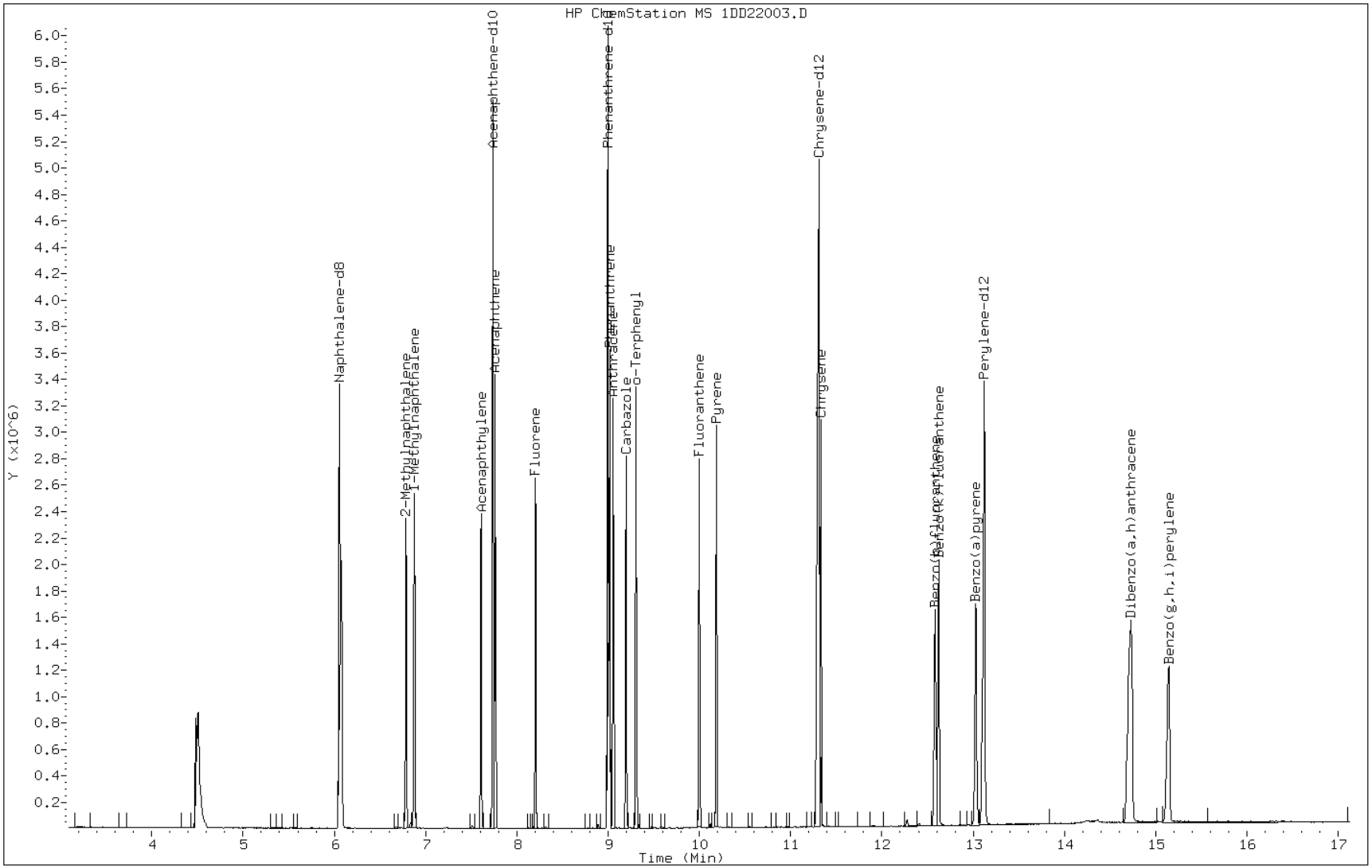
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD22003.D

Date: 22-APR-2013 10:43

Client ID: Instrument: BSMSD.i

Sample Info: CCV-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD22003.D
Inj. Date and Time: 22-APR-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

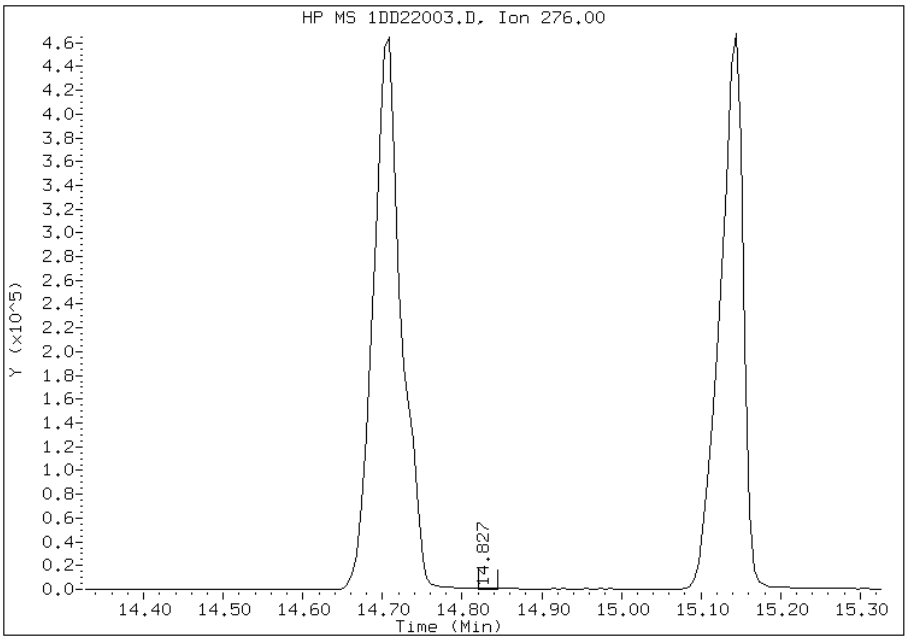
Processing Integration Results

RT: 14.83

Response: 538

Amount: 0

Conc: 0



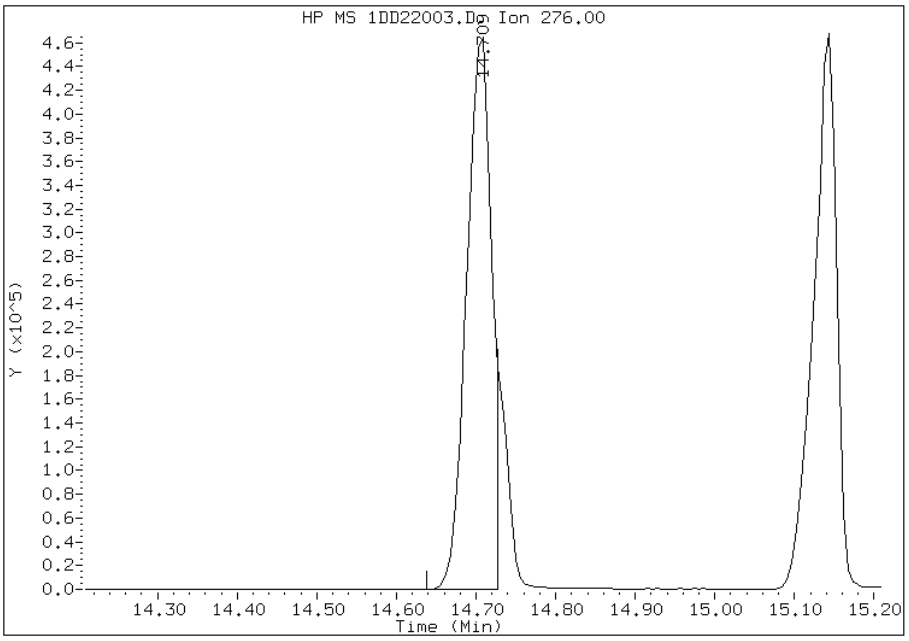
Manual Integration Results

RT: 14.71

Response: 1015743

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 11:05
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Lab Sample ID: CCV 660-136756/4 Calibration Date: 04/23/2013 13:06

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

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

Lab File ID: 1DD23004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9852	0.0000	19800	20000	-0.9	20.0
2-Methylnaphthalene	Ave	0.6418	0.6398	0.0000	19900	20000	-0.3	20.0
1-Methylnaphthalene	Ave	0.6061	0.5888	0.0000	19400	20000	-2.9	20.0
Acenaphthylene	Ave	1.693	1.721	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	1.045	1.023	0.0000	19600	20000	-2.1	20.0
Fluorene	Ave	1.238	1.213	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.102	1.077	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.094	1.096	0.0000	20000	20000	0.2	20.0
Carbazole	Ave	0.9646	0.9490	0.0000	19700	20000	-1.6	20.0
Fluoranthene	Ave	1.134	1.100	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.201	1.259	0.0000	21000	20000	4.8	20.0
Benzo[a]anthracene	Ave	1.156	1.064	0.0000	18400	20000	-8.0	20.0
Chrysene	Ave	1.084	1.075	0.0000	19800	20000	-0.8	20.0
Benzo[b]fluoranthene	Ave	0.999	1.045	0.0000	20900	20000	4.6	20.0
Benzo[k]fluoranthene	Ave	1.053	1.028	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.004	1.021	0.0000	20300	20000	1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.125	0.0000	21000	20000	5.1	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.019	0.0000	20200	20000	1.1	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.053	0.0000	20400	20000	2.2	20.0
o-Terphenyl	Ave	0.6027	0.5900	0.0000	19600	20000	-2.1	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23004.D
Lab Smp Id: CCV-1531401
Inj Date : 23-APR-2013 13:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.051	6.051	(1.000)	1580617	40.0000	(H)
*	6 Acenaphthene-d10	164	7.732	7.732	(1.000)	898769	40.0000	
*	9 Phenanthrene-d10	188	8.995	8.995	(1.000)	1440899	40.0000	(H)
$	13 o-Terphenyl	230	9.306	9.306	(1.035)	425079	20.0000	20
*	17 Chrysene-d12	240	11.304	11.304	(1.000)	1347354	40.0000	(H)
*	22 Perylene-d12	264	13.120	13.120	(1.000)	1365132	40.0000	(H)
	2 Naphthalene	128	6.075	6.075	(1.004)	778635	20.0000	20(H)
	3 2-Methylnaphthalene	142	6.780	6.780	(1.120)	505626	20.0000	20(H)
	4 1-Methylnaphthalene	142	6.874	6.874	(1.136)	465341	20.0000	19(H)
	5 Acenaphthylene	152	7.608	7.608	(0.984)	773280	20.0000	20
	7 Acenaphthene	154	7.761	7.761	(1.004)	459843	20.0000	20
	8 Fluorene	166	8.208	8.208	(1.062)	545091	20.0000	20
	10 Phenanthrene	178	9.013	9.013	(1.002)	776039	20.0000	20(H)
	11 Anthracene	178	9.054	9.054	(1.007)	789282	20.0000	20(H)
	12 Carbazole	167	9.195	9.195	(1.022)	683717	20.0000	20(H)
	14 Fluoranthene	202	10.000	10.000	(1.112)	792537	20.0000	19(H)
	15 Pyrene	202	10.188	10.188	(0.901)	848028	20.0000	21(H)
	16 Benzo(a)anthracene	228	11.287	11.287	(0.998)	716524	20.0000	18(H)
	18 Chrysene	228	11.328	11.328	(1.002)	724359	20.0000	20(H)
	19 Benzo(b)fluoranthene	252	12.585	12.585	(0.959)	713274	20.0000	21(H)
	20 Benzo(k)fluoranthene	252	12.620	12.620	(0.962)	701401	20.0000	20(H)
	21 Benzo(a)pyrene	252	13.032	13.032	(0.993)	696714	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.706	14.706	(1.121)	768192	20.0000	21(MH)
	24 Dibenzo(a,h)anthracene	278	14.735	14.735	(1.123)	695736	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.141	15.141	(1.154)	718929	20.0000	20(H)

QC Flag Legend

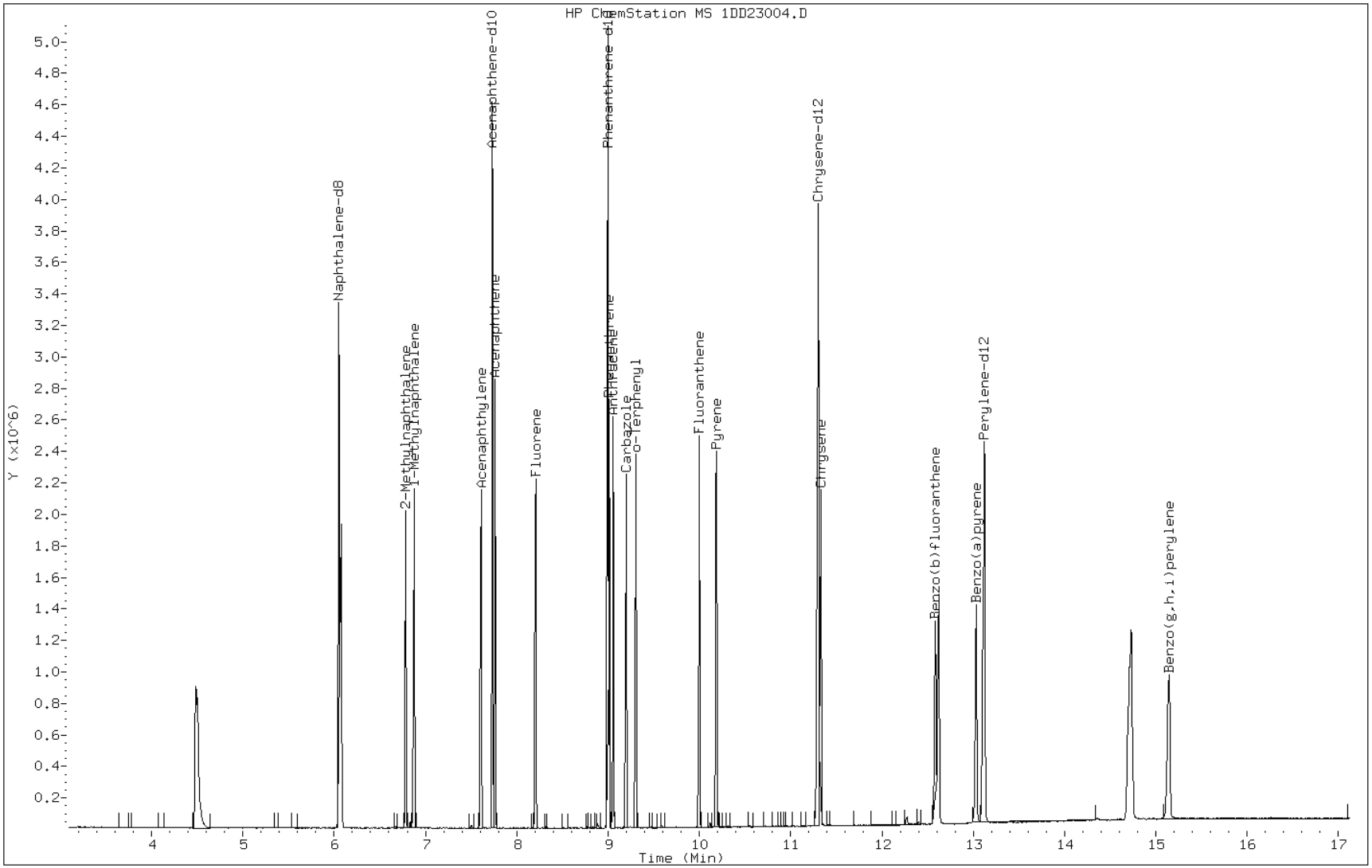
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD23004.D

Date: 23-APR-2013 13:06

Client ID: Instrument: BSMSD.i

Sample Info: CCV-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD23004.D
Inj. Date and Time: 23-APR-2013 13:06
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

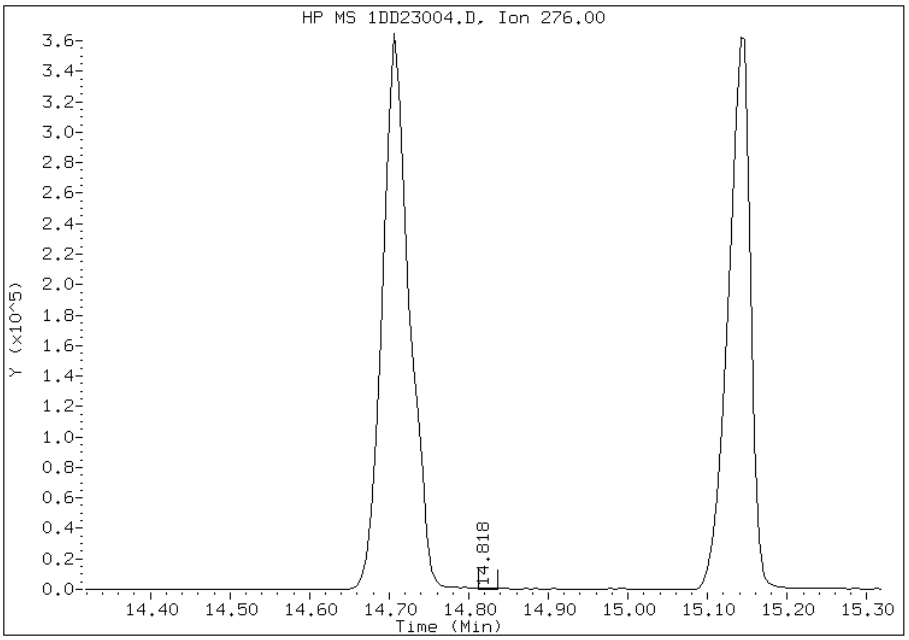
Processing Integration Results

RT: 14.82

Response: 582

Amount: 0

Conc: 0



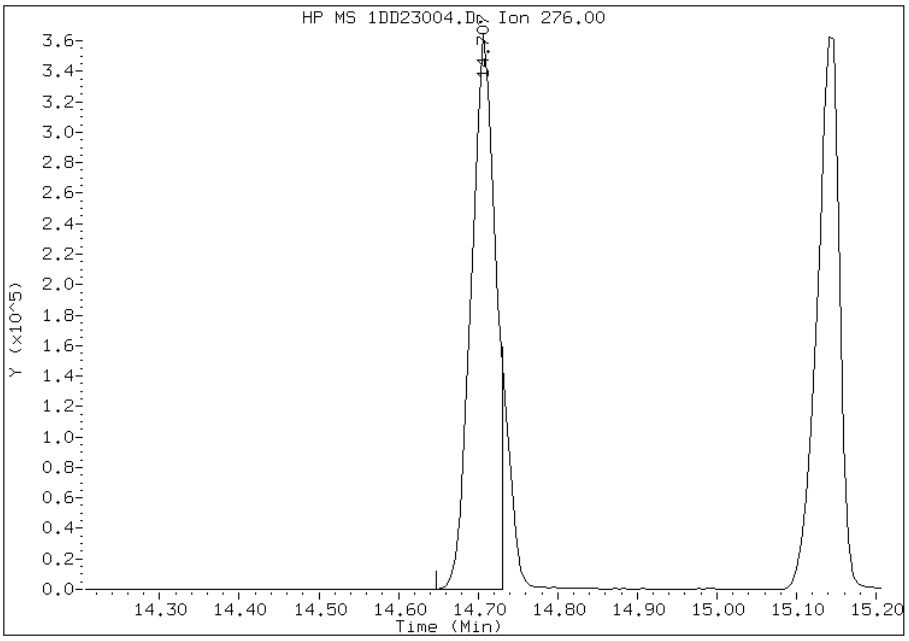
Manual Integration Results

RT: 14.71

Response: 768192

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 14:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 11-APR-2013 11:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

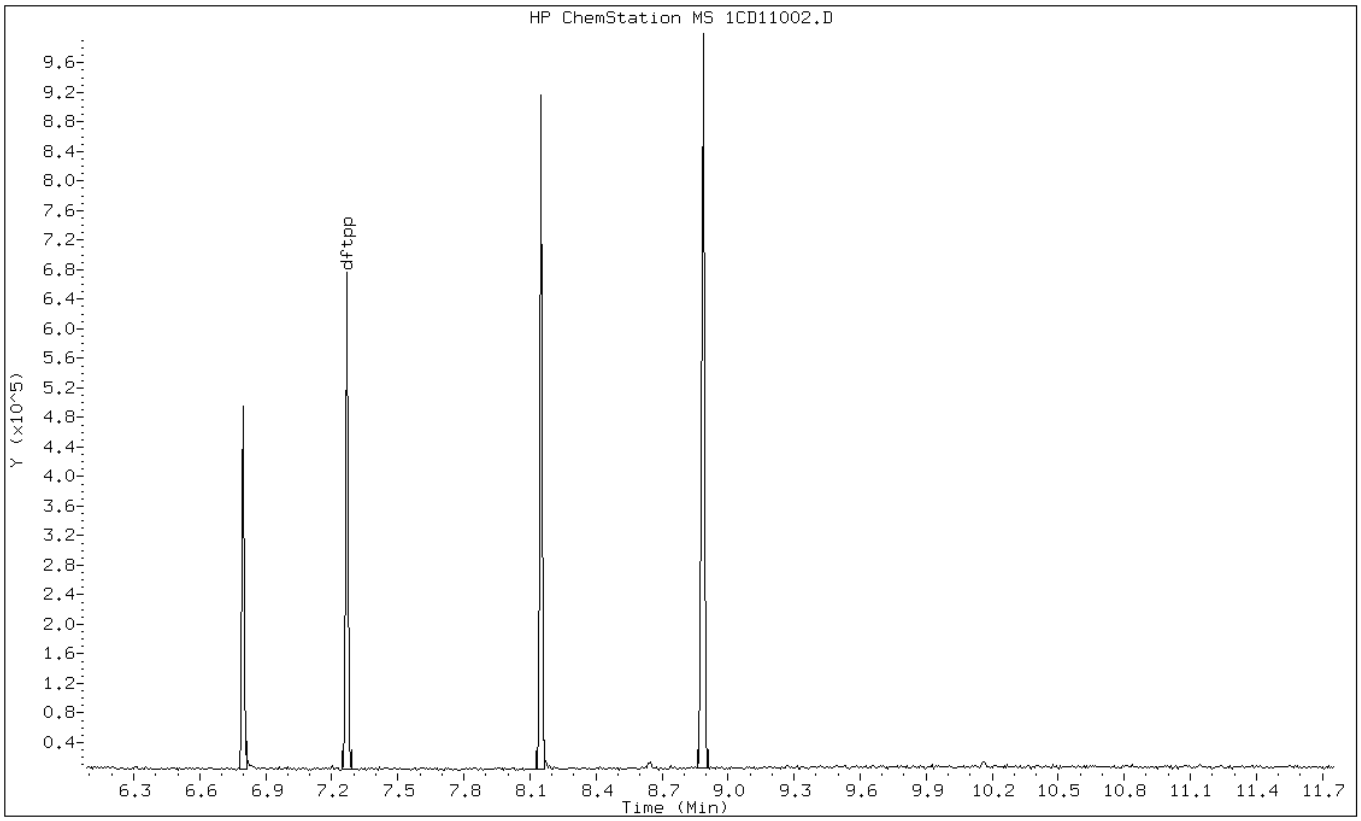
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.269	7.469	-0.200	198	54472			50.00- 0.00	100.00
7.269	7.469	-0.200	51	21074			10.00- 80.00	38.69
7.269	7.469	-0.200	68	353			0.00- 2.00	1.33
7.269	7.469	-0.200	69	26600			0.00- 0.00	48.83
7.269	7.469	-0.200	70	132			0.00- 2.00	0.50
7.269	7.469	-0.200	127	25024			10.00- 80.00	45.94
7.269	7.469	-0.200	197	448			0.00- 2.00	0.82
7.269	7.469	-0.200	442	41796			50.00- 0.00	76.73
7.269	7.469	-0.200	199	3165			5.00- 9.00	5.81
7.269	7.469	-0.200	275	11356			10.00- 60.00	20.85
7.269	7.469	-0.200	365	2771			1.00- 0.00	5.09
7.269	7.469	-0.200	441	5680			0.01- 99.99	64.97
7.269	7.469	-0.200	443	8743			15.00- 24.00	20.92

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



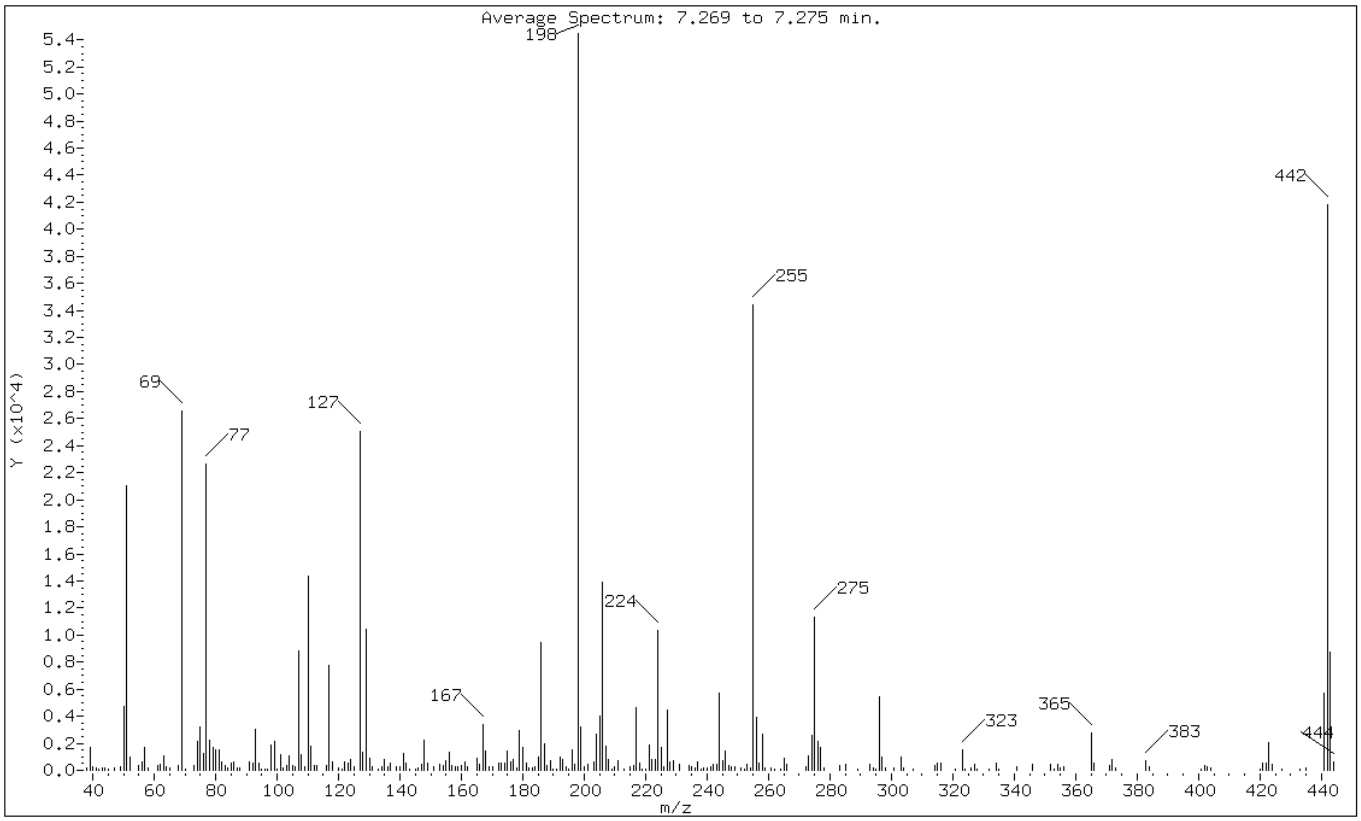
Data File: 1CD11002.D

Date: 11-APR-2013 11:38

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	38.69
68	Less than 2.00% of mass 69	0.65 (1.33)
69	Mass 69 relative abundance	48.83
70	Less than 2.00% of mass 69	0.24 (0.50)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.82
442	Greater than 50.00% of mass 198	76.73
199	5.00 - 9.00% of mass 198	5.81
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.43
443	15.00 - 24.00% of mass 442	16.05 (20.92)

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Spectrum: Average Spectrum: 7.269 to 7.275 min.
Location of Maximum: 198.00
Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	141	117.00	7792	192.00	941	266.00	463
39.00	1700	118.00	633	193.00	768	272.00	261
40.00	309	120.00	172	194.00	248	273.00	1086
41.00	212	121.00	81	195.00	118	274.00	2545
42.00	101	122.00	618	196.00	1486	275.00	11356
43.00	189	123.00	527	197.00	448	276.00	2162
44.00	218	124.00	760	198.00	54472	277.00	1668
45.00	75	125.00	297	199.00	3165	278.00	173
47.00	138	127.00	25024	200.00	261	283.00	397
49.00	296	128.00	1379	201.00	429	285.00	405
50.00	4728	129.00	10387	203.00	647	289.00	86
51.00	21072	130.00	905	204.00	2694	293.00	463
52.00	978	131.00	241	205.00	4012	294.00	163
55.00	372	133.00	76	206.00	13898	295.00	117
56.00	660	134.00	248	207.00	1801	296.00	5458
57.00	1715	135.00	839	208.00	802	297.00	985
58.00	143	136.00	263	209.00	108	298.00	186
61.00	354	137.00	547	210.00	311	301.00	140
62.00	440	139.00	248	211.00	692	303.00	973
63.00	1027	140.00	294	213.00	120	304.00	144
64.00	238	141.00	1264	215.00	302	307.00	75
65.00	219	142.00	522	216.00	382	314.00	371
68.00	353	143.00	119	217.00	4620	315.00	576
69.00	26600	145.00	86	218.00	501	316.00	571
70.00	132	146.00	154	219.00	78	321.00	122
73.00	387	147.00	484	220.00	83	323.00	1548
74.00	2154	148.00	2234	221.00	1909	324.00	106
75.00	3222	149.00	536	222.00	834	326.00	171
76.00	1231	151.00	277	223.00	833	327.00	475
77.00	22680	153.00	451	224.00	10305	328.00	129
78.00	2251	154.00	375	225.00	1699	332.00	90
79.00	1660	155.00	715	226.00	238	334.00	515
80.00	1523	156.00	1323	227.00	4427	335.00	88
81.00	1506	157.00	341	228.00	659	341.00	287
82.00	620	158.00	298	229.00	722	346.00	477
83.00	331	159.00	250	231.00	478	352.00	473
84.00	218	160.00	328	234.00	330	353.00	129
85.00	517	161.00	632	235.00	268	354.00	476
86.00	662	162.00	296	236.00	196	355.00	177
87.00	149	165.00	863	237.00	643	356.00	231

88.00	168	166.00	456	238.00	130	365.00	2771
91.00	638	167.00	3403	239.00	186	366.00	577
92.00	550	168.00	1471	240.00	203	371.00	326
93.00	3050	169.00	283	241.00	259	372.00	767
94.00	543	170.00	226	242.00	421	373.00	136
95.00	78	172.00	552	243.00	420	383.00	710
96.00	80	173.00	512	244.00	5690	384.00	290
97.00	97	174.00	492	245.00	728	401.00	123
98.00	1840	175.00	1453	246.00	1454	402.00	322
99.00	2133	176.00	612	247.00	328	403.00	283
100.00	97	177.00	818	248.00	255	404.00	187
101.00	1184	178.00	192	249.00	296	420.00	101
102.00	161	179.00	2908	251.00	152	421.00	556
103.00	325	180.00	1670	252.00	78	422.00	509
104.00	1088	181.00	547	253.00	422	423.00	2034
105.00	339	182.00	219	254.00	220	424.00	428
106.00	305	183.00	208	255.00	34392	427.00	77
107.00	8863	184.00	269	256.00	3905	433.00	77
108.00	1145	185.00	954	257.00	538	435.00	142
109.00	309	186.00	9451	258.00	2671	441.00	5680
110.00	14323	187.00	1971	259.00	192	442.00	41792
111.00	1814	188.00	326	261.00	196	443.00	8743
112.00	372	189.00	673	262.00	109	444.00	645
113.00	319	190.00	129	264.00	98		
116.00	324	191.00	101	265.00	936		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-APR-2013 11:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

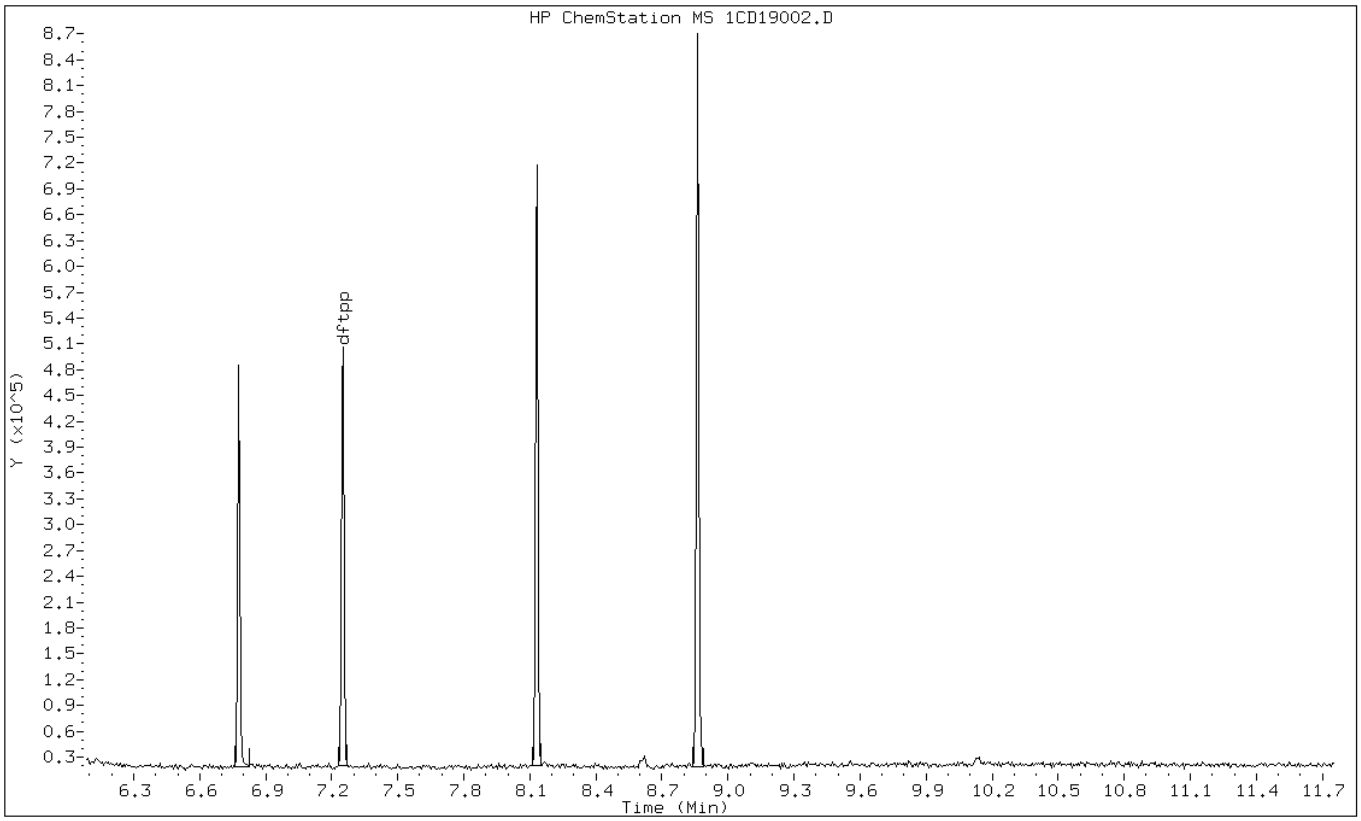
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.251	7.469	-0.218	198	49952			50.00- 0.00	100.00
7.251	7.469	-0.218	51	22360			10.00- 80.00	44.76
7.251	7.469	-0.218	68	446			0.00- 2.00	1.94
7.251	7.469	-0.218	69	22992			0.00- 0.00	46.03
7.251	7.469	-0.218	70	236			0.00- 2.00	1.03
7.251	7.469	-0.218	127	23776			10.00- 80.00	47.60
7.251	7.469	-0.218	197	612			0.00- 2.00	1.23
7.251	7.469	-0.218	442	36928			50.00- 0.00	73.93
7.251	7.469	-0.218	199	2769			5.00- 9.00	5.54
7.251	7.469	-0.218	275	11275			10.00- 60.00	22.57
7.251	7.469	-0.218	365	3284			1.00- 0.00	6.57
7.251	7.469	-0.218	441	6054			0.01- 99.99	87.03
7.251	7.469	-0.218	443	6956			15.00- 24.00	18.84

Data File: 1CD19002.D

Date: 19-APR-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



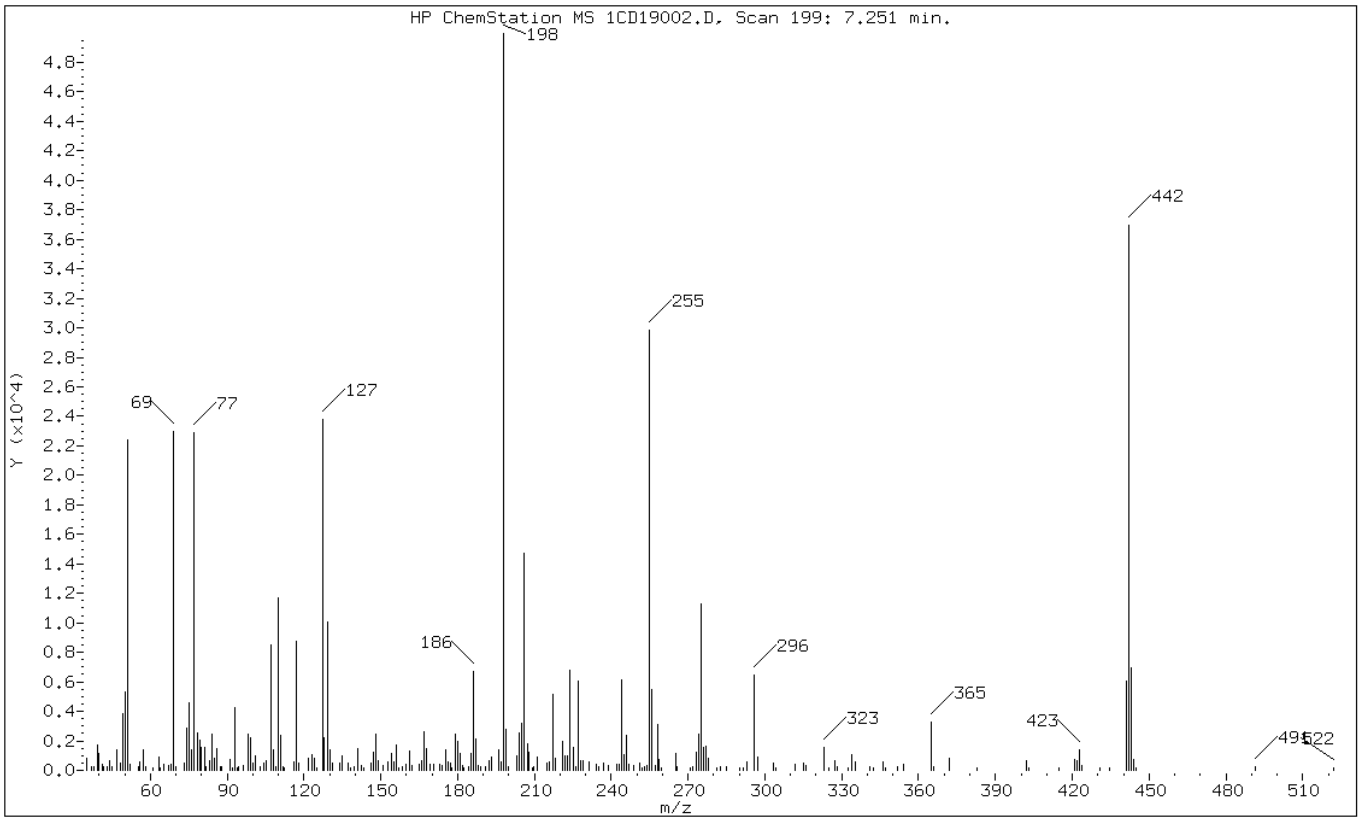
Data File: 1CD19002.D

Date: 19-APR-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	44.76
68	Less than 2.00% of mass 69	0.89 (1.94)
69	Mass 69 relative abundance	46.03
70	Less than 2.00% of mass 69	0.47 (1.03)
127	10.00 - 80.00% of mass 198	47.60
197	Less than 2.00% of mass 198	1.23
442	Greater than 50.00% of mass 198	73.93
199	5.00 - 9.00% of mass 198	5.54
275	10.00 - 60.00% of mass 198	22.57
365	Greater than 1.00% of mass 198	6.57
441	Present, but less than mass 443	12.12
443	15.00 - 24.00% of mass 442	13.93 (18.84)

Data File: 1CD19002.D

Date: 19-APR-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19002.D
Spectrum: HP ChemStation MS 1CD19002.D, Scan 199: 7.251 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	815	108.00	1401	185.00	1137	265.80	284
37.10	283	108.90	237	186.00	6671	270.80	168
38.00	236	110.00	11697	186.90	2118	271.80	231
39.10	1711	110.90	2348	188.00	328	273.00	1200
39.90	1148	112.00	222	188.90	282	273.90	2458
41.00	388	112.40	153	191.00	284	275.00	11275
41.90	231	115.90	602	192.10	658	275.90	1561
43.30	267	117.00	8736	193.10	907	277.00	1617
44.00	630	117.90	511	195.90	1391	278.00	823
45.00	267	121.90	840	197.10	612	281.00	152
46.90	1397	122.90	1062	198.00	49952	282.80	226
48.10	490	124.00	793	199.00	2769	284.80	219
49.00	3810	124.90	184	200.00	263	289.90	183
50.10	5349	127.10	23776	202.90	942	291.70	193
51.10	22360	127.90	2181	204.10	2558	293.10	601
52.00	417	129.00	10091	205.10	3156	296.00	6449
55.10	211	130.00	1364	206.10	14748	297.00	922
56.00	553	131.20	480	207.10	1806	303.10	470
57.00	1396	134.00	484	208.00	1264	304.10	154
58.10	216	134.90	942	209.20	204	312.00	439
61.20	182	137.00	513	209.90	255	314.90	511
63.10	882	138.10	190	211.20	876	316.00	349
64.00	170	139.70	282	214.90	450	322.90	1537
65.00	447	141.10	1468	216.00	545	324.80	164
66.90	303	142.30	350	217.00	5151	327.10	614
68.00	446	143.20	169	218.00	844	328.20	276
69.00	22992	146.00	455	220.90	1970	332.40	158
69.90	236	147.10	1265	221.70	1006	333.90	1050
73.30	455	148.00	2448	223.00	953	335.10	568
74.10	2873	148.90	646	224.00	6773	341.00	226
75.00	4567	151.00	299	225.10	1563	342.20	184
75.90	1369	152.80	545	226.20	231	346.10	553
77.10	22888	154.10	1146	227.10	6011	347.10	200
78.20	2549	155.20	544	227.90	628	351.70	258
79.10	2048	156.10	1745	228.90	661	353.90	384
80.00	1578	156.80	203	231.10	556	364.90	3284
81.00	1588	158.20	239	234.00	422	365.70	282
81.90	243	159.90	394	235.10	284	371.90	812
82.90	676	161.00	1323	236.80	511	383.00	200
84.00	2434	162.00	318	238.90	341	402.00	621

85.00	834	164.90	449	242.10	391	402.90	174
86.00	1437	165.90	665	243.10	395	415.00	204
87.10	278	167.00	2579	244.00	6138	421.10	740
87.90	222	168.00	1444	245.00	1028	422.00	683
90.90	766	169.00	384	246.00	2356	423.00	1388
91.90	169	170.70	391	246.90	427	423.80	303
93.00	4234	172.90	425	248.90	305	430.70	172
93.80	152	174.10	352	251.00	531	434.80	161
94.20	217	175.10	1358	252.20	166	441.00	6054
96.10	292	176.20	608	252.80	235	442.00	36928
98.00	2412	177.00	521	253.70	359	443.00	6956
99.00	2178	177.80	153	255.00	29848	444.00	740
100.00	487	179.00	2423	256.00	5486	444.90	181
101.00	943	180.00	1934	257.00	348	491.40	221
103.00	273	181.00	1159	258.00	3075	522.10	169
104.10	484	181.70	309	258.80	701		
105.10	647	182.60	185	259.70	179		
107.00	8495	184.10	229	265.00	1132		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-APR-2013 11:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

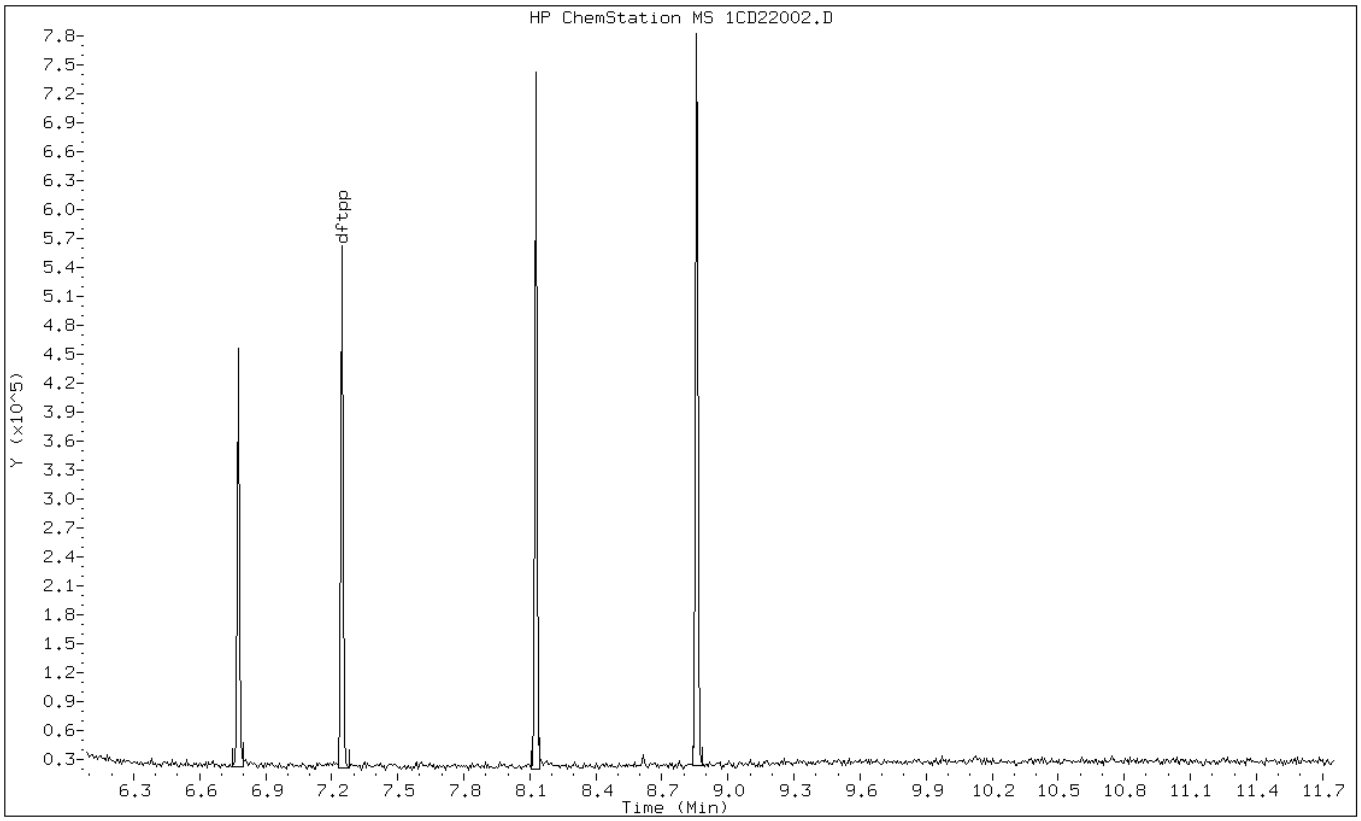
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.245	7.469	-0.224	198	33172			50.00- 0.00	100.00
7.245	7.469	-0.224	51	19866			10.00- 80.00	59.89
7.245	7.469	-0.224	68	380			0.00- 2.00	1.88
7.245	7.469	-0.224	69	20205			0.00- 0.00	60.91
7.245	7.469	-0.224	70	229			0.00- 2.00	1.13
7.245	7.469	-0.224	127	18677			10.00- 80.00	56.30
7.245	7.469	-0.224	197	232			0.00- 2.00	0.70
7.245	7.469	-0.224	442	24156			50.00- 0.00	72.82
7.245	7.469	-0.224	199	2591			5.00- 9.00	7.81
7.245	7.469	-0.224	275	9466			10.00- 60.00	28.54
7.245	7.469	-0.224	365	2299			1.00- 0.00	6.93
7.245	7.469	-0.224	441	3919			0.01- 99.99	77.97
7.245	7.469	-0.224	443	5026			15.00- 24.00	20.81

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



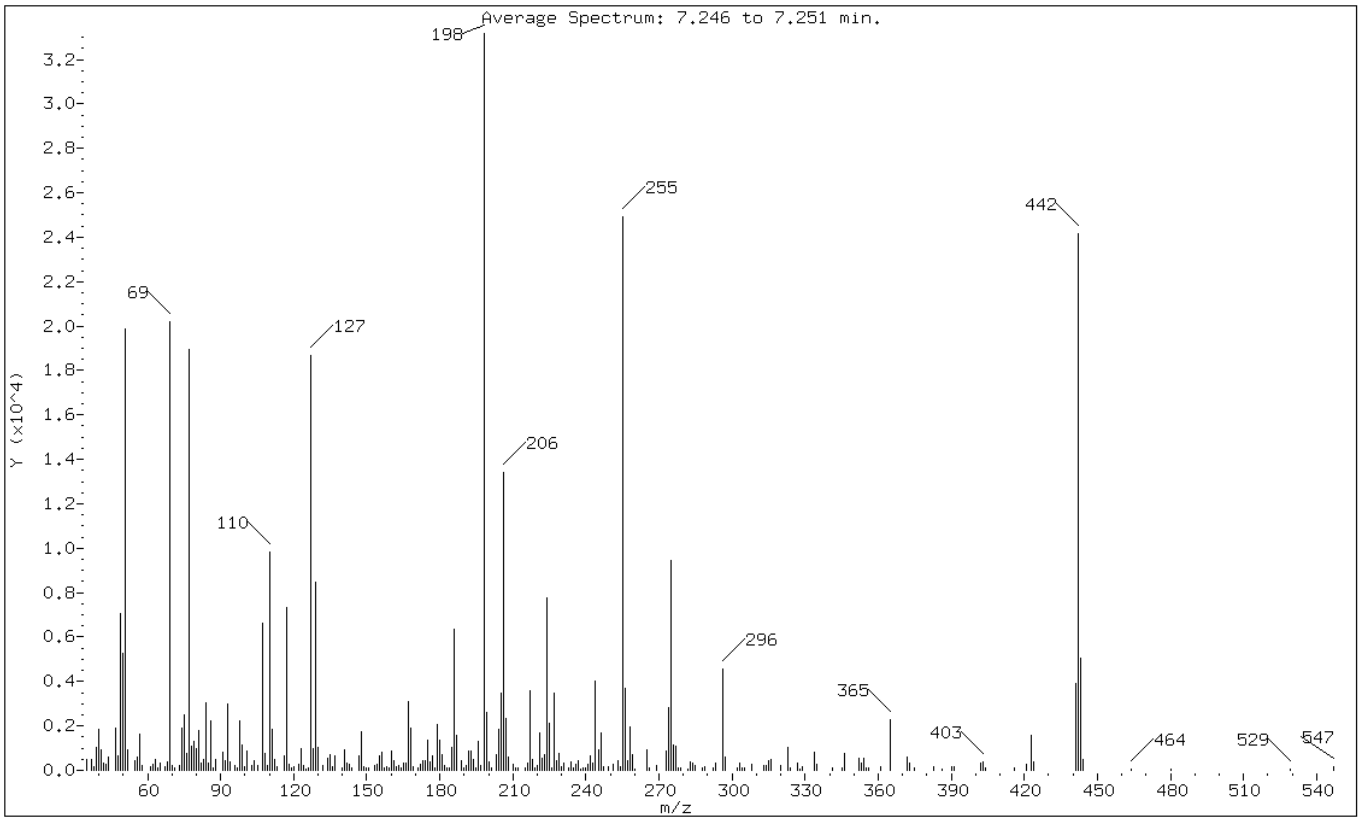
Data File: 1CD22002.D

Date: 22-APR-2013 11:33

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	59.89
68	Less than 2.00% of mass 69	1.15 (1.88)
69	Mass 69 relative abundance	60.91
70	Less than 2.00% of mass 69	0.69 (1.13)
127	10.00 - 80.00% of mass 198	56.30
197	Less than 2.00% of mass 198	0.70
442	Greater than 50.00% of mass 198	72.82
199	5.00 - 9.00% of mass 198	7.81
275	10.00 - 60.00% of mass 198	28.54
365	Greater than 1.00% of mass 198	6.93
441	Present, but less than mass 443	11.81
443	15.00 - 24.00% of mass 442	15.15 (20.81)

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Spectrum: Average Spectrum: 7.246 to 7.251 min.
Location of Maximum: 198.00
Number of points: 261

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	469	117.00	7316	193.00	851	276.00	1162
37.00	479	118.00	245	194.00	470	277.00	1088
38.00	188	119.00	89	195.00	85	278.00	105
39.00	1036	120.00	185	196.00	1312	279.00	130
40.00	1832	122.00	288	197.00	232	282.00	81
41.00	936	123.00	966	198.00	33168	283.00	374
42.00	316	124.00	227	199.00	2591	284.00	311
43.00	255	125.00	78	200.00	394	285.00	236
44.00	618	126.00	98	201.00	85	288.00	87
47.00	1901	127.00	18672	203.00	727	289.00	150
48.00	625	128.00	974	204.00	1864	292.00	100
49.00	7041	129.00	8478	205.00	3481	293.00	347
50.00	5261	130.00	1029	206.00	13415	296.00	4587
51.00	19864	132.00	234	207.00	2317	297.00	620
52.00	897	134.00	529	208.00	619	302.00	102
55.00	441	135.00	693	210.00	285	303.00	337
56.00	597	136.00	173	211.00	121	304.00	100
57.00	1643	137.00	636	212.00	115	305.00	97
58.00	203	140.00	100	215.00	128	308.00	295
61.00	146	141.00	899	216.00	335	313.00	206
62.00	255	142.00	347	217.00	3591	314.00	232
63.00	464	143.00	274	218.00	504	315.00	446
64.00	119	144.00	97	219.00	107	316.00	477
65.00	351	147.00	632	220.00	195	320.00	203
67.00	178	148.00	1726	221.00	1701	323.00	1018
68.00	380	149.00	148	222.00	521	324.00	96
69.00	20200	150.00	121	223.00	702	327.00	311
70.00	229	151.00	104	224.00	7764	328.00	81
71.00	100	153.00	201	225.00	2090	329.00	152
73.00	203	154.00	251	226.00	118	334.00	809
74.00	1880	155.00	636	227.00	3490	335.00	277
75.00	2480	156.00	811	228.00	432	341.00	123
76.00	736	157.00	91	229.00	739	345.00	113
77.00	18968	158.00	186	230.00	168	346.00	747
78.00	1112	159.00	115	231.00	352	352.00	567
79.00	1312	160.00	856	233.00	128	353.00	314
80.00	996	161.00	419	234.00	374	354.00	560
81.00	1794	162.00	184	235.00	130	355.00	131
82.00	341	163.00	234	236.00	276	356.00	84
83.00	502	164.00	89	237.00	448	361.00	154

84.00	3064	165.00	326	238.00	81	365.00	2299
85.00	318	166.00	318	239.00	114	372.00	592
86.00	2231	167.00	3095	240.00	104	373.00	328
87.00	99	168.00	1907	241.00	263	375.00	95
88.00	467	169.00	167	242.00	649	383.00	189
91.00	831	171.00	106	243.00	351	386.00	79
92.00	450	172.00	266	244.00	4039	390.00	156
93.00	2990	173.00	434	245.00	912	391.00	155
94.00	357	174.00	424	246.00	1698	402.00	335
96.00	204	175.00	1361	247.00	140	403.00	353
97.00	107	176.00	371	249.00	155	404.00	103
98.00	2227	177.00	671	251.00	266	416.00	131
99.00	1162	178.00	90	253.00	412	421.00	256
100.00	153	179.00	2062	254.00	173	423.00	1565
101.00	853	180.00	1344	255.00	24904	424.00	366
103.00	232	181.00	687	256.00	3709	441.00	3919
104.00	418	182.00	243	257.00	425	442.00	24152
105.00	203	183.00	94	258.00	1932	443.00	5026
107.00	6626	184.00	98	259.00	702	444.00	508
108.00	767	185.00	1008	260.00	75	464.00	80
109.00	226	186.00	6340	265.00	927	480.00	76
110.00	9851	187.00	1588	266.00	125	529.00	79
111.00	1842	189.00	426	269.00	191	547.00	169
112.00	462	190.00	88	273.00	869		
113.00	139	191.00	233	274.00	2838		
116.00	657	192.00	885	275.00	9466		

TestAmerica Laboratories

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

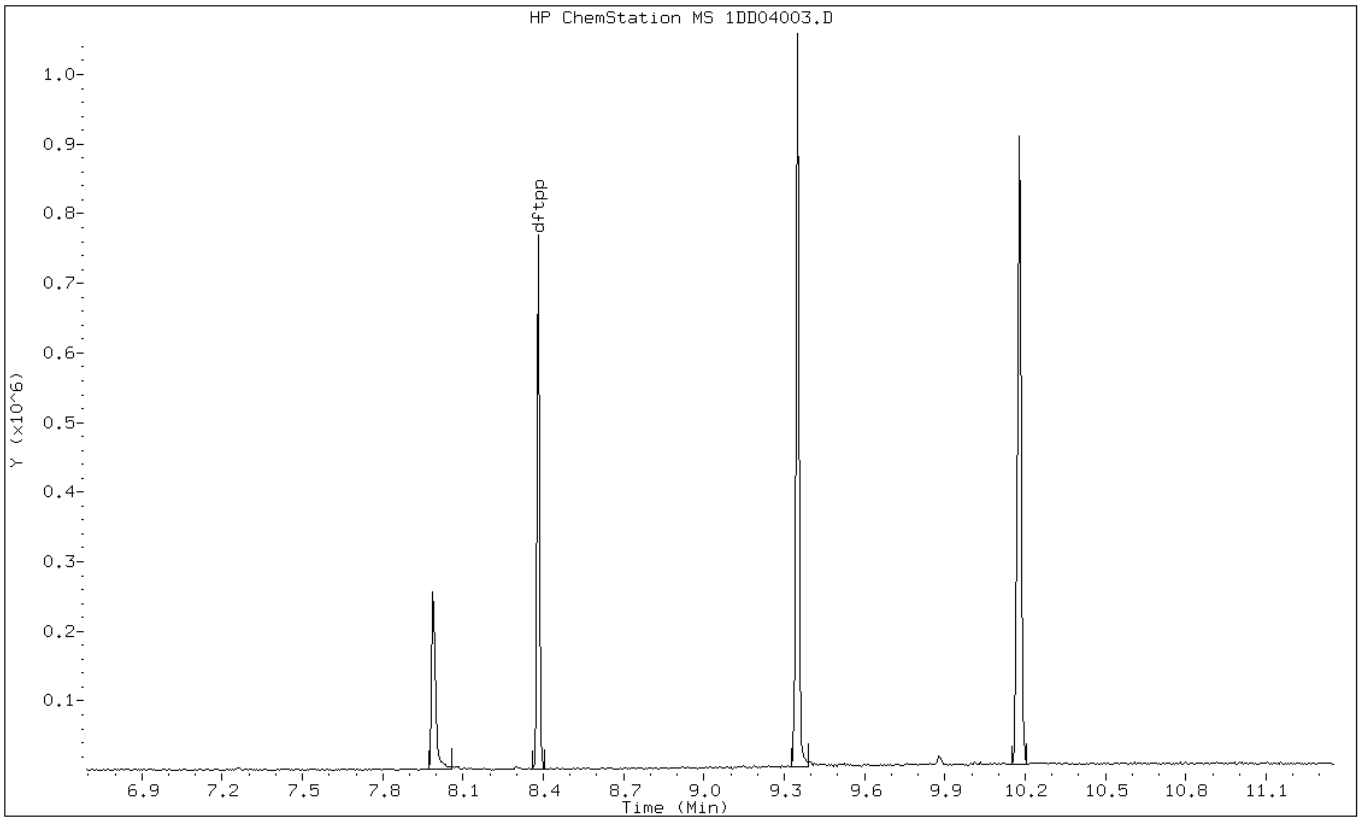
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.382	8.532	-0.150	198	72572			50.00- 0.00	100.00
8.382	8.532	-0.150	51	32556			10.00- 80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150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

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



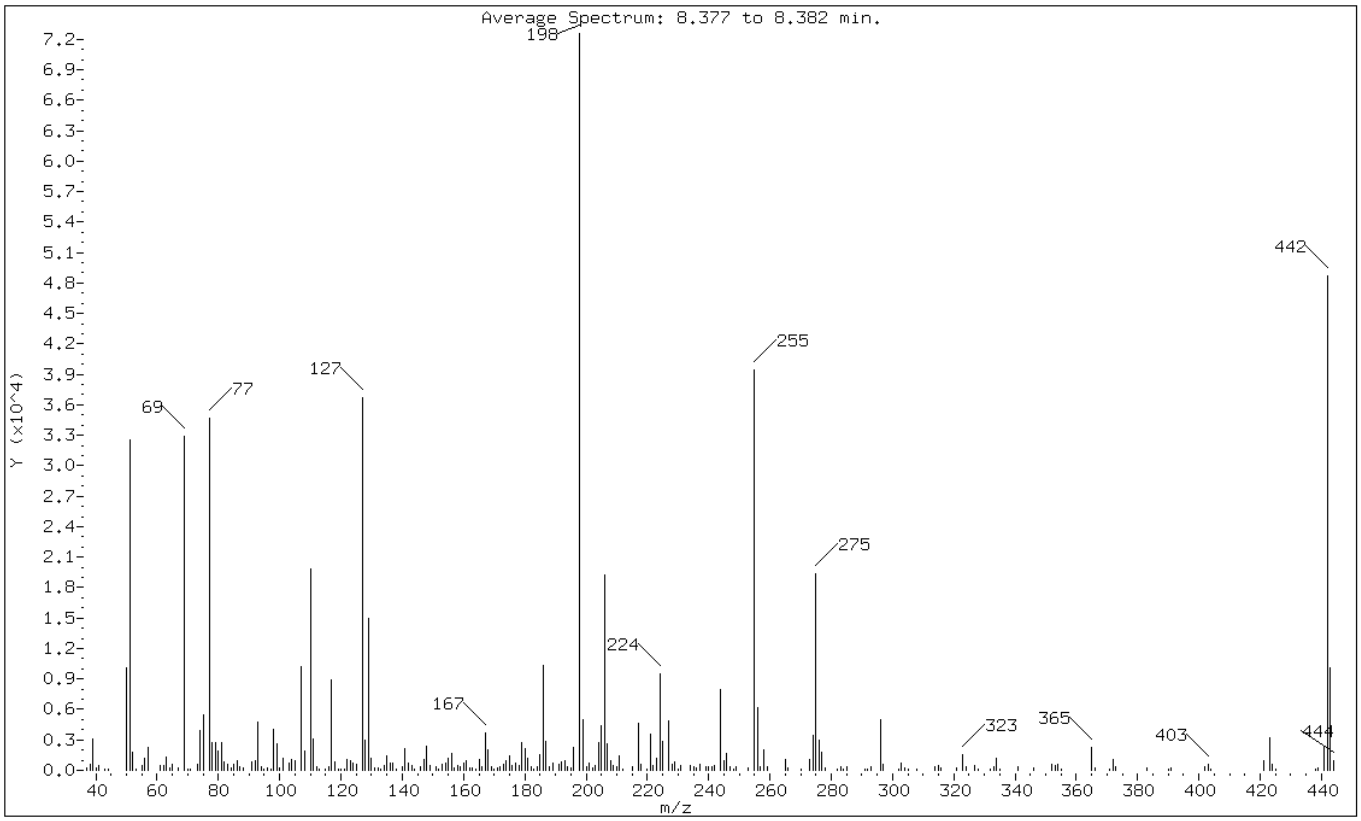
Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

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

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

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

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-APR-2013 10:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.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		
8.349	8.532	-0.183	198	53672			50.00- 0.00	100.00
8.349	8.532	-0.183	51	25210			10.00- 80.00	46.97
8.349	8.532	-0.183	68	106			0.00- 2.00	0.43
8.349	8.532	-0.183	69	24404			0.00- 0.00	45.47
8.349	8.532	-0.183	70	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	127	26678			10.00- 80.00	49.71
8.349	8.532	-0.183	197	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	442	39710			50.00- 0.00	73.99
8.349	8.532	-0.183	199	3206			5.00- 9.00	5.97
8.349	8.532	-0.183	275	14384			10.00- 60.00	26.80
8.349	8.532	-0.183	365	2044			1.00- 0.00	3.81
8.349	8.532	-0.183	441	375			0.01- 99.99	4.64
8.349	8.532	-0.183	443	8077			15.00- 24.00	20.34

Data File: 1DD22002.D

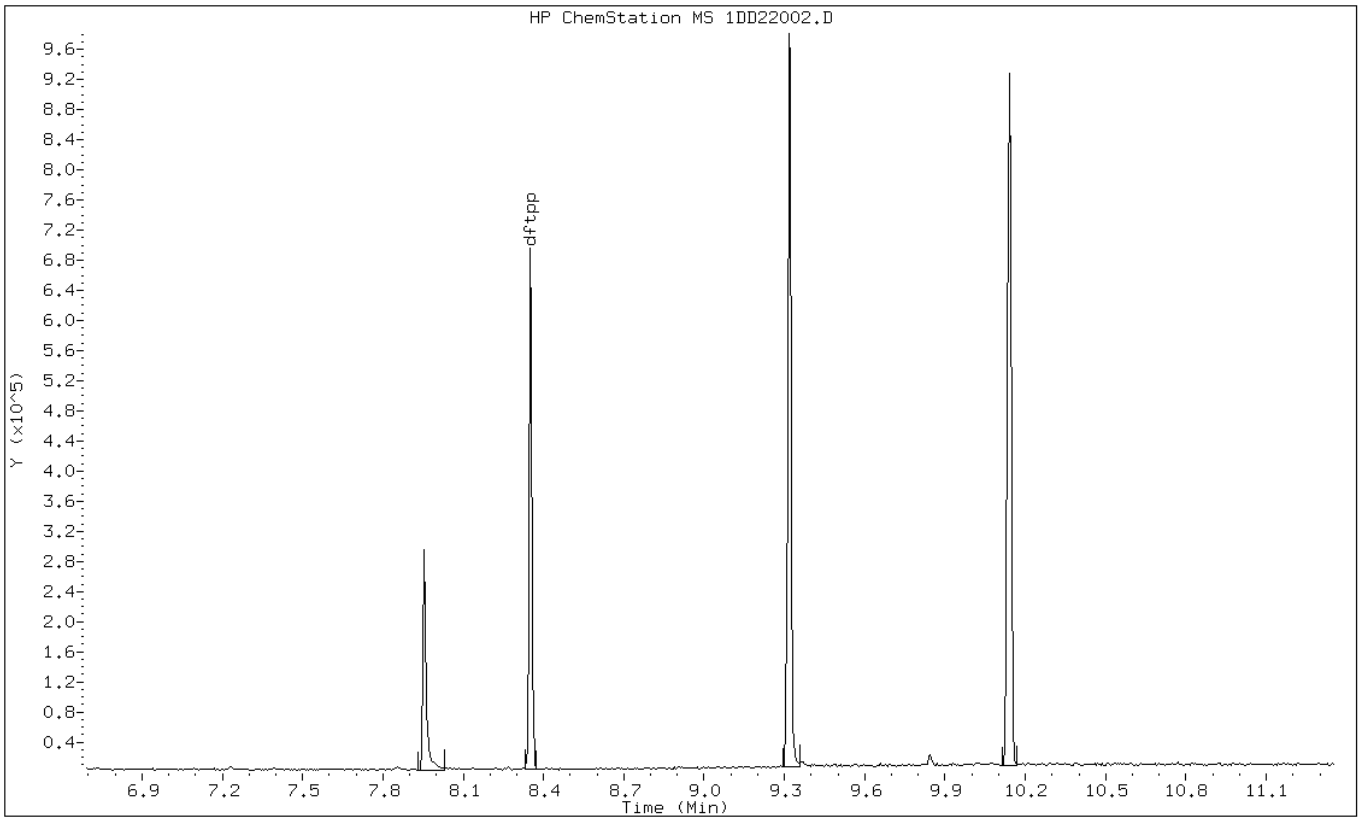
Date: 22-APR-2013 10:26

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



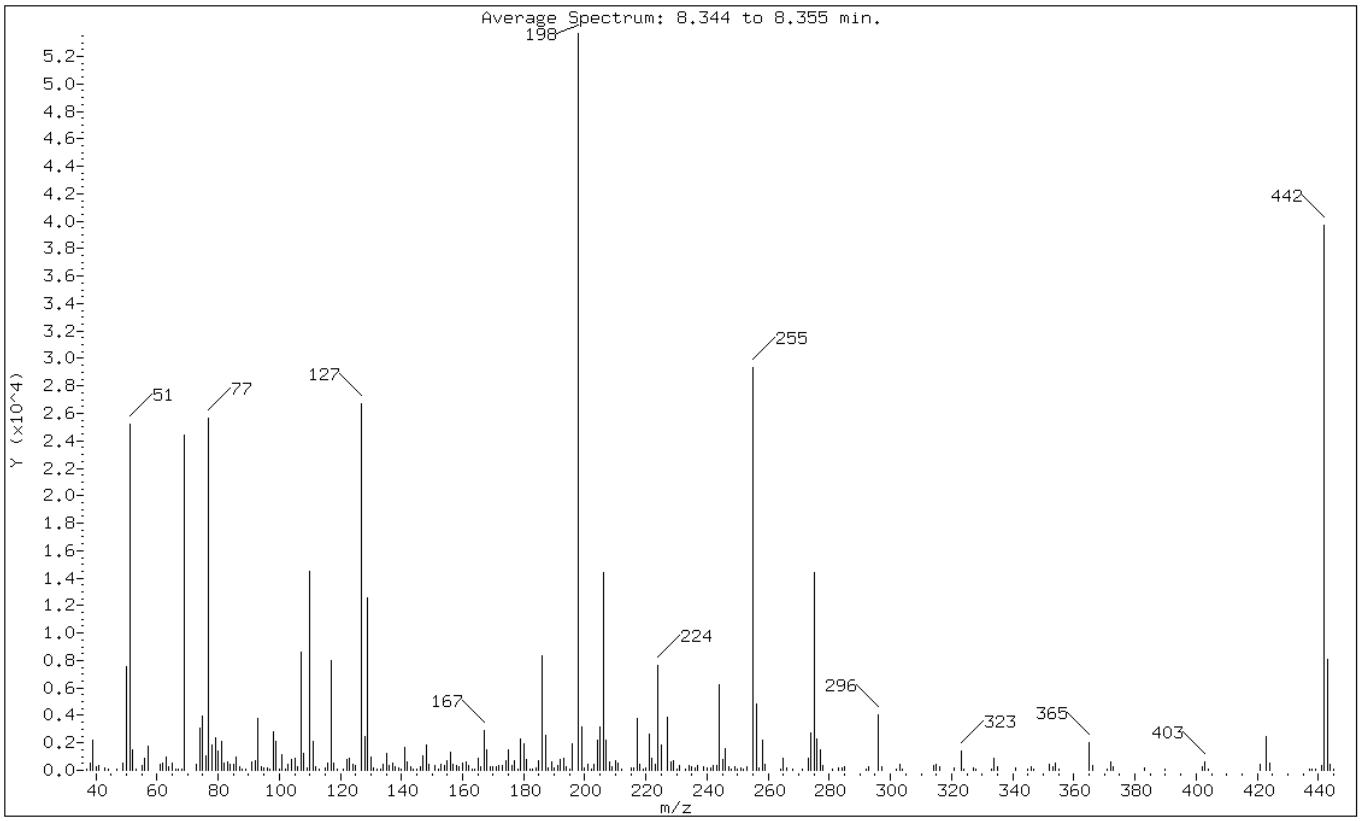
Data File: 1DD22002.D

Date: 22-APR-2013 10:26

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	46.97
68	Less than 2.00% of mass 69	0.20 (0.43)
69	Mass 69 relative abundance	45.47
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.71
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.99
199	5.00 - 9.00% of mass 198	5.97
275	10.00 - 60.00% of mass 198	26.80
365	Greater than 1.00% of mass 198	3.81
441	Present, but less than mass 443	0.70
443	15.00 - 24.00% of mass 442	15.05 (20.34)

Data File: 1DD22002.D

Date: 22-APR-2013 10:26

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22002.D
Spectrum: Average Spectrum: 8.344 to 8.355 min.
Location of Maximum: 198.00
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	109	116.00	484	185.00	745	258.00	2158
38.00	570	117.00	7971	186.00	8314	259.00	399
39.00	2226	118.00	544	187.00	2575	264.00	82
40.00	274	119.00	69	188.00	144	265.00	905
41.00	388	121.00	81	189.00	649	266.00	183
43.00	199	122.00	786	190.00	171	268.00	61
44.00	86	123.00	893	191.00	324	271.00	86
47.00	82	124.00	483	192.00	814	273.00	868
49.00	532	125.00	363	193.00	843	274.00	2751
50.00	7580	127.00	26672	194.00	252	275.00	14384
51.00	25208	128.00	2438	195.00	55	276.00	2240
52.00	1456	129.00	12578	196.00	1918	277.00	1463
53.00	63	130.00	1000	198.00	53672	278.00	334
55.00	389	131.00	189	199.00	3206	281.00	61
56.00	892	132.00	59	200.00	206	283.00	187
57.00	1727	133.00	128	201.00	404	284.00	166
61.00	417	134.00	434	202.00	60	285.00	264
62.00	503	135.00	1270	203.00	482	292.00	86
63.00	984	136.00	315	204.00	2171	293.00	229
64.00	229	137.00	529	205.00	3186	296.00	4044
65.00	499	138.00	233	206.00	14377	297.00	306
66.00	52	139.00	132	207.00	2169	302.00	63
67.00	60	140.00	78	208.00	637	303.00	469
68.00	106	141.00	1656	209.00	279	304.00	125
69.00	24400	142.00	617	210.00	665	314.00	315
73.00	427	143.00	306	211.00	518	315.00	450
74.00	3093	144.00	79	212.00	63	316.00	238
75.00	3982	145.00	108	215.00	206	321.00	151
76.00	1092	146.00	292	216.00	152	323.00	1387
77.00	25688	147.00	1069	217.00	3796	324.00	124
78.00	1864	148.00	1843	218.00	477	327.00	198
79.00	2335	149.00	446	219.00	131	328.00	72
80.00	1433	151.00	312	220.00	193	333.00	70
81.00	2092	152.00	99	221.00	2609	334.00	902
82.00	553	153.00	426	222.00	903	335.00	269
83.00	584	154.00	353	223.00	424	341.00	164
84.00	421	155.00	744	224.00	7604	345.00	50
85.00	413	156.00	1278	225.00	1802	346.00	293
86.00	991	157.00	429	227.00	3831	347.00	73
87.00	292	158.00	365	228.00	606	352.00	405

88.00	64	159.00	281	229.00	742	353.00	267
89.00	57	160.00	556	230.00	50	354.00	508
91.00	645	161.00	656	231.00	313	355.00	68
92.00	676	162.00	355	233.00	122	365.00	2044
93.00	3783	163.00	50	234.00	312	366.00	365
94.00	267	164.00	52	235.00	292	371.00	69
95.00	156	165.00	850	236.00	213	372.00	656
96.00	143	166.00	274	237.00	346	373.00	291
97.00	61	167.00	2902	239.00	229	383.00	201
98.00	2808	168.00	1455	240.00	156	390.00	85
99.00	2077	169.00	290	241.00	206	402.00	288
100.00	55	170.00	247	242.00	375	403.00	576
101.00	1119	171.00	286	243.00	380	404.00	65
102.00	69	172.00	364	244.00	6230	421.00	465
103.00	444	173.00	378	245.00	772	423.00	2495
104.00	800	174.00	662	246.00	1570	424.00	547
105.00	836	175.00	1463	247.00	227	437.00	55
106.00	272	176.00	392	248.00	109	438.00	54
107.00	8643	177.00	721	249.00	264	439.00	59
108.00	1228	178.00	58	250.00	56	441.00	375
109.00	133	179.00	2275	251.00	140	442.00	39704
110.00	14467	180.00	1926	252.00	50	443.00	8077
111.00	2126	181.00	752	253.00	220	444.00	442
112.00	246	182.00	107	255.00	29336	445.00	60
113.00	88	183.00	63	256.00	4832		
115.00	190	184.00	186	257.00	159		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-APR-2013 12:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.349	8.532	-0.183	198	62708			50.00- 0.00	100.00
8.349	8.532	-0.183	51	26699			10.00- 80.00	42.58
8.349	8.532	-0.183	68	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	69	26024			0.00- 0.00	41.50
8.349	8.532	-0.183	70	130			0.00- 2.00	0.50
8.349	8.532	-0.183	127	31676			10.00- 80.00	50.51
8.349	8.532	-0.183	197	421			0.00- 2.00	0.67
8.349	8.532	-0.183	442	59344			50.00- 0.00	94.64
8.349	8.532	-0.183	199	4475			5.00- 9.00	7.14
8.349	8.532	-0.183	275	18977			10.00- 60.00	30.26
8.349	8.532	-0.183	365	2543			1.00- 0.00	4.06
8.349	8.532	-0.183	441	4731			0.01- 99.99	40.74
8.349	8.532	-0.183	443	11614			15.00- 24.00	19.57

Data File: 1DD23003.D

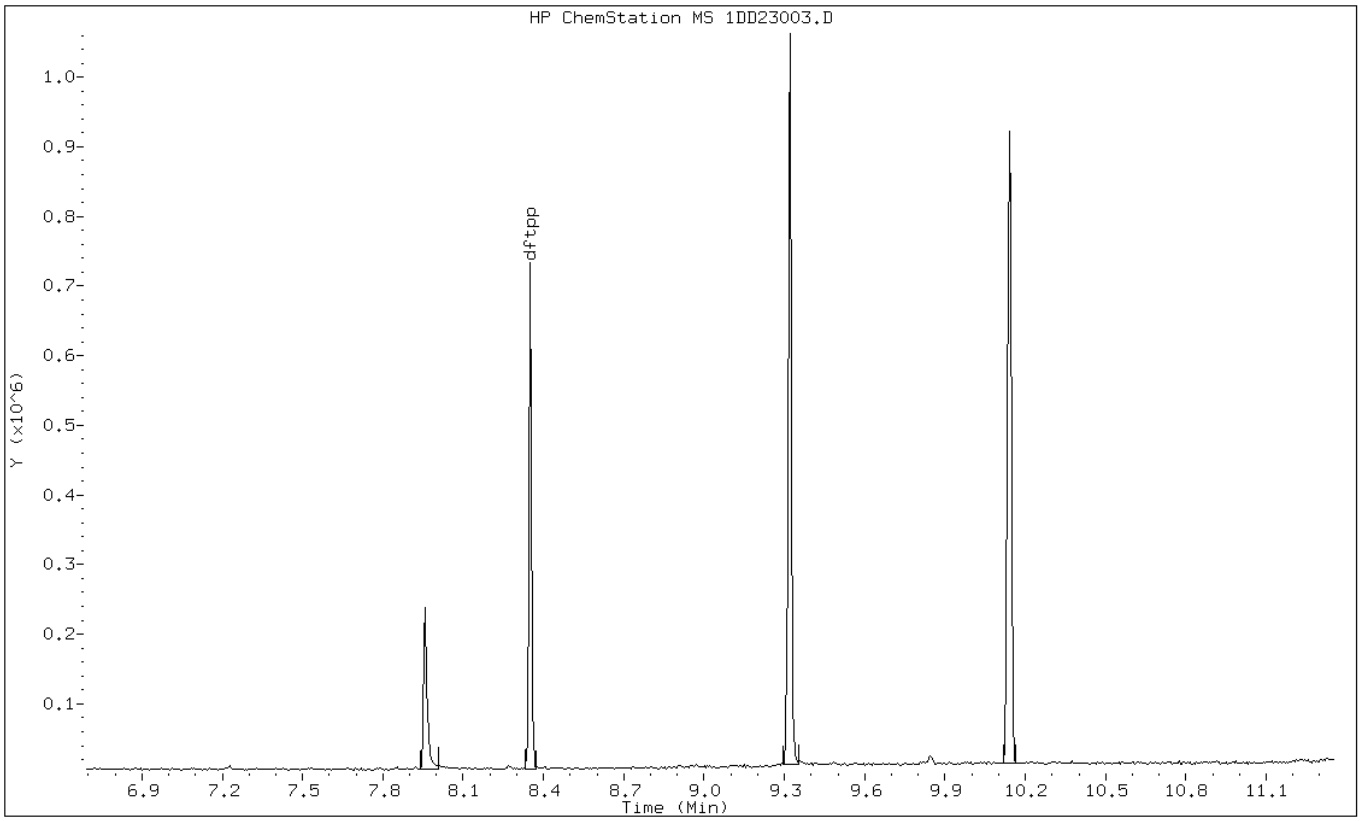
Date: 23-APR-2013 12:50

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



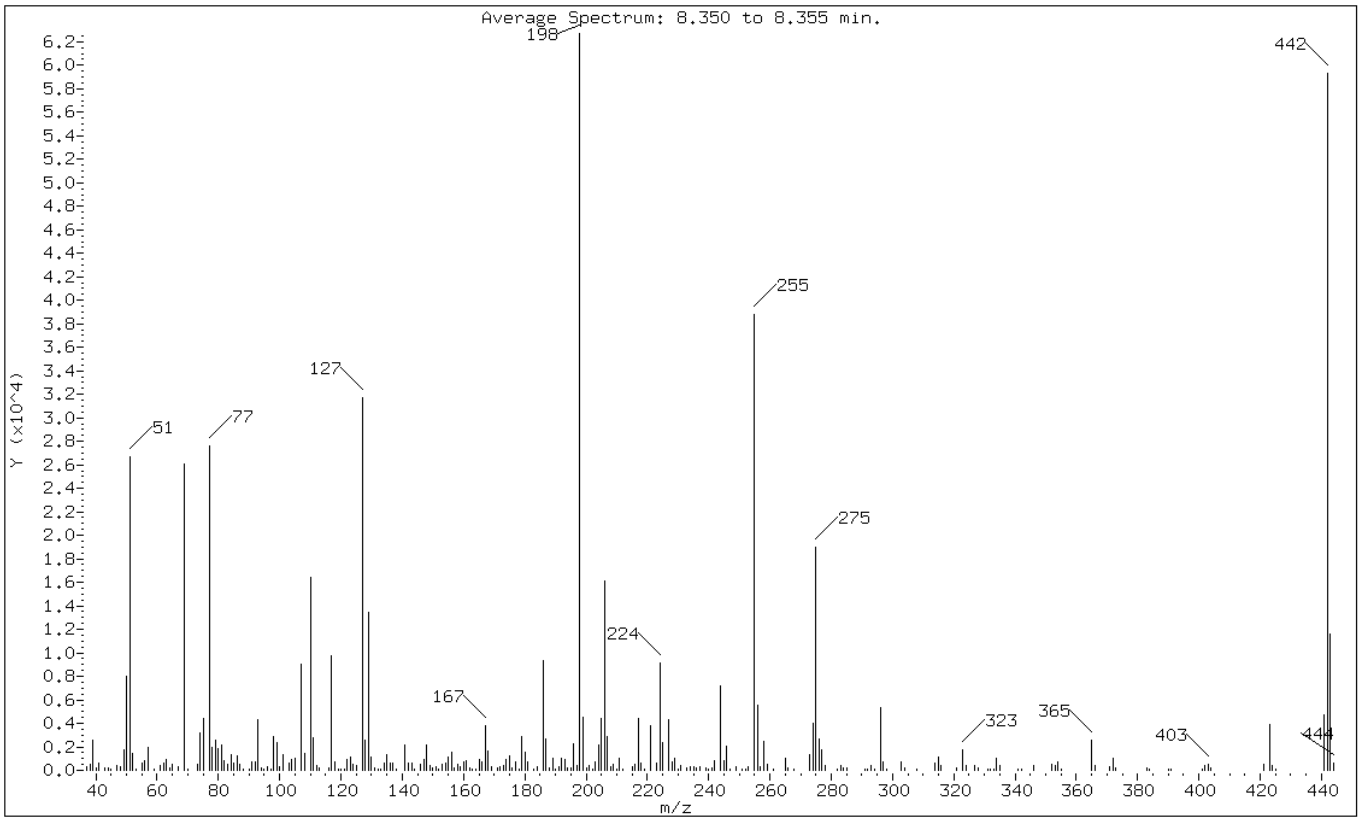
Data File: 1DD23003.D

Date: 23-APR-2013 12:50

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	42.58
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.50
70	Less than 2.00% of mass 69	0.21 (0.50)
127	10.00 - 80.00% of mass 198	50.51
197	Less than 2.00% of mass 198	0.67
442	Greater than 50.00% of mass 198	94.64
199	5.00 - 9.00% of mass 198	7.14
275	10.00 - 60.00% of mass 198	30.26
365	Greater than 1.00% of mass 198	4.06
441	Present, but less than mass 443	7.54
443	15.00 - 24.00% of mass 442	18.52 (19.57)

Data File: 1DD23003.D

Date: 23-APR-2013 12:50

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23003.D
Spectrum: Average Spectrum: 8.350 to 8.355 min.
Location of Maximum: 198.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	257	117.00	9760	188.00	191	268.00	75
38.00	552	118.00	756	189.00	1034	273.00	1309
39.00	2568	119.00	149	190.00	132	274.00	3966
40.00	169	120.00	104	191.00	344	275.00	18976
41.00	645	121.00	83	192.00	978	276.00	2621
43.00	231	122.00	944	193.00	946	277.00	1750
44.00	240	123.00	1176	194.00	249	278.00	364
45.00	102	124.00	469	195.00	173	282.00	84
47.00	367	125.00	373	196.00	2266	283.00	394
48.00	275	127.00	31672	197.00	421	284.00	177
49.00	1726	128.00	2594	198.00	62704	285.00	193
50.00	8047	129.00	13446	199.00	4475	291.00	96
51.00	26696	130.00	1080	200.00	191	292.00	85
52.00	1399	131.00	181	201.00	436	293.00	441
53.00	82	132.00	76	202.00	123	294.00	136
55.00	608	133.00	89	203.00	685	296.00	5382
56.00	872	134.00	581	204.00	2173	297.00	741
57.00	1951	135.00	1335	205.00	4445	298.00	84
59.00	107	136.00	567	206.00	16157	303.00	671
61.00	377	137.00	591	207.00	2829	304.00	255
62.00	614	138.00	95	208.00	313	308.00	83
63.00	912	141.00	2105	209.00	556	314.00	600
64.00	241	142.00	615	210.00	124	315.00	1180
65.00	548	143.00	624	211.00	1011	316.00	360
67.00	305	144.00	84	212.00	103	321.00	214
69.00	26024	146.00	464	215.00	353	323.00	1717
70.00	130	147.00	950	216.00	504	324.00	437
73.00	467	148.00	2205	217.00	4408	327.00	426
74.00	3147	149.00	445	218.00	582	328.00	167
75.00	4443	150.00	245	219.00	86	331.00	92
77.00	27584	151.00	264	221.00	3749	332.00	131
78.00	1920	152.00	114	223.00	640	333.00	144
79.00	2523	153.00	511	224.00	9147	334.00	1049
80.00	1825	154.00	632	225.00	2392	335.00	387
81.00	2155	155.00	1167	227.00	4280	341.00	116
82.00	804	156.00	1522	228.00	743	342.00	89
83.00	507	157.00	169	229.00	998	346.00	393
84.00	1321	158.00	484	230.00	87	352.00	564
85.00	617	159.00	349	231.00	433	353.00	423
86.00	1252	160.00	760	233.00	190	354.00	760

87.00	477	161.00	842	234.00	258	355.00	83
88.00	124	162.00	226	235.00	352	365.00	2543
90.00	81	163.00	94	236.00	158	366.00	410
91.00	717	164.00	89	237.00	345	371.00	290
92.00	671	165.00	899	239.00	197	372.00	975
93.00	4319	166.00	728	240.00	99	373.00	188
94.00	207	167.00	3816	241.00	221	383.00	168
95.00	127	168.00	1626	242.00	841	384.00	81
96.00	299	169.00	278	244.00	7218	390.00	149
97.00	106	171.00	244	245.00	864	391.00	81
98.00	2884	172.00	326	246.00	2070	401.00	85
99.00	2385	173.00	391	247.00	127	402.00	429
100.00	322	174.00	886	249.00	278	403.00	558
101.00	1371	175.00	1228	251.00	89	404.00	249
103.00	594	176.00	178	252.00	89	421.00	481
104.00	952	177.00	727	253.00	349	423.00	3883
105.00	984	178.00	75	255.00	38752	424.00	458
107.00	9051	179.00	2835	256.00	5568	425.00	83
108.00	1386	180.00	1570	257.00	270	441.00	4731
110.00	16384	181.00	722	258.00	2427	442.00	59344
111.00	2756	183.00	81	259.00	479	443.00	11614
112.00	445	184.00	309	261.00	76	444.00	590
113.00	163	186.00	9379	265.00	1003		
116.00	192	187.00	2701	266.00	221		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: MB 660-136551/1-A

Matrix: Solid | Lab File ID: 1CD19012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.12(g) | Date Analyzed: 04/19/2013 14:23

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

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

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

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	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	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	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	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19012.D
Lab Smp Id: MB 660-136551/1-A
Inj Date : 19-APR-2013 14:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : MB 660-136551/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 12 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	15.120	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

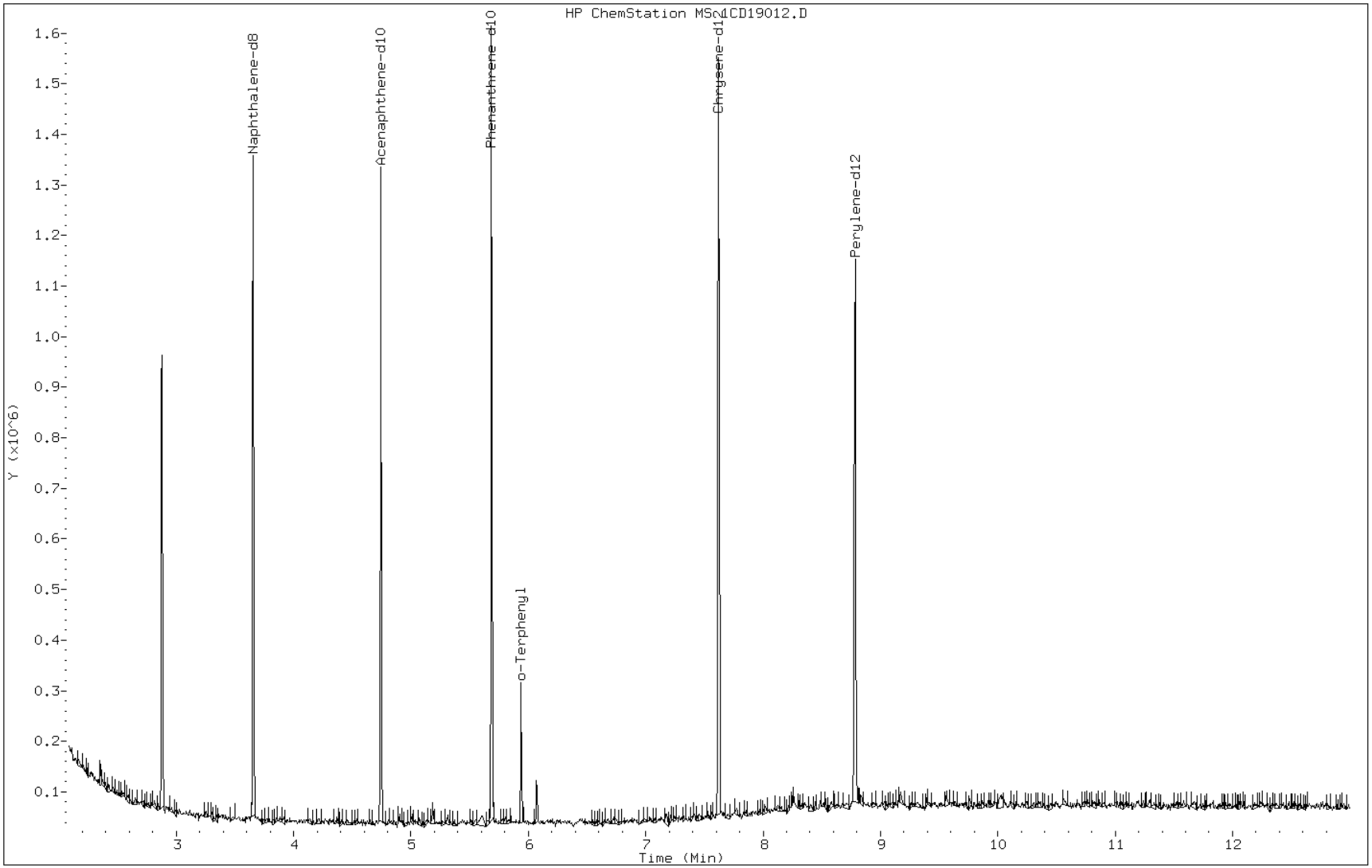
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.657	3.657	(1.000)	211094	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	141041	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	261212	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	21794	5.72808	378.8411
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	295504	40.0000	
*	23 Perylene-d12	264	8.786	8.768	(1.000)	333814	40.0000	

Data File: 1CD19012.D

Date: 19-APR-2013 14:23

Client ID: Instrument: BSMC5973.i

Sample Info: MB 660-136551/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: MB 660-136604/1-A

Matrix: Solid | Lab File ID: 1DD22005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.38(g) | Date Analyzed: 04/22/2013 11:30

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.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22005.D
Lab Smp Id: MB 660-136604/1-A
Inj Date : 22-APR-2013 11:30
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-136604/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	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

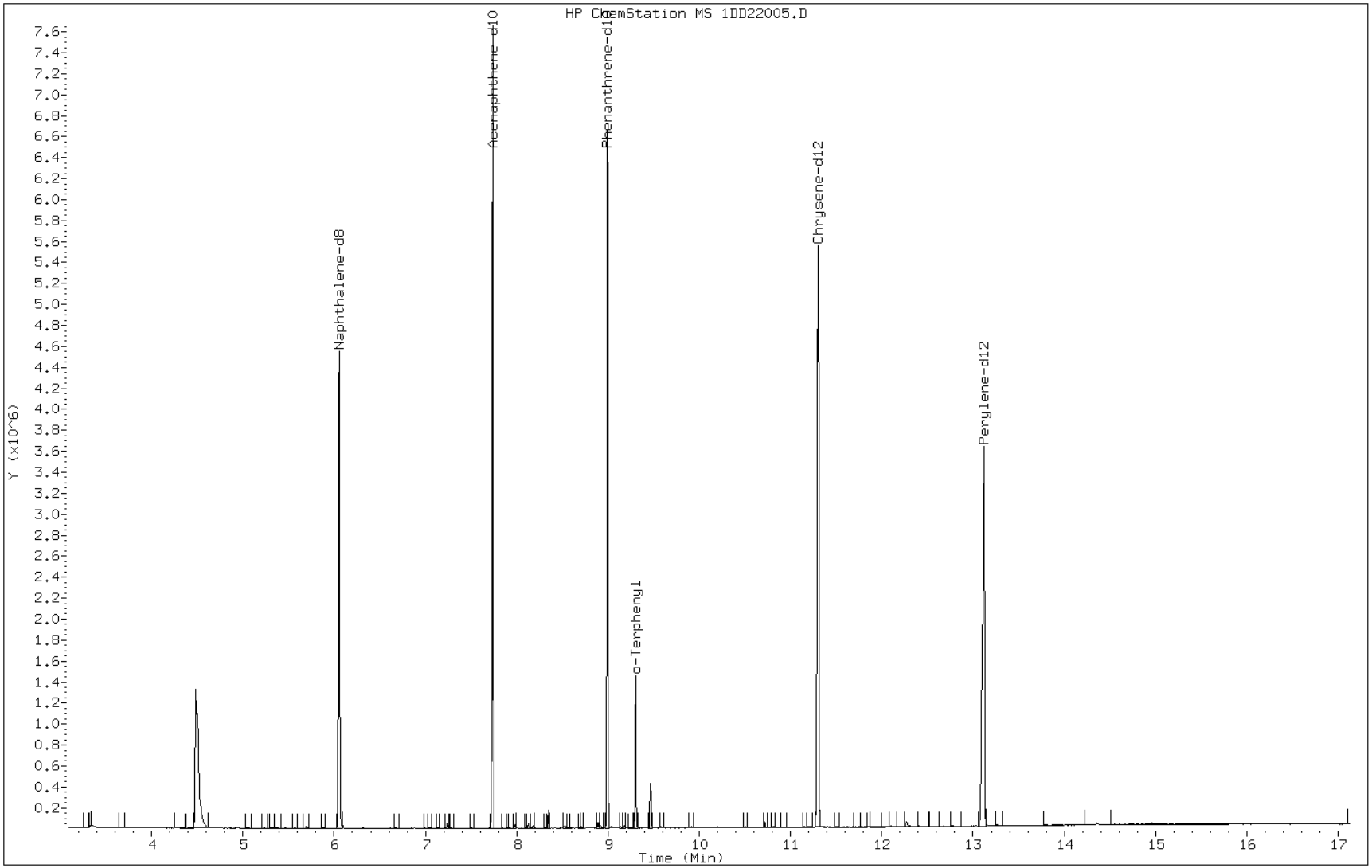
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.055	6.054	(1.000)	2232943	40.0000	
*	6 Acenaphthene-d10	164	7.736	7.734	(1.000)	1323504	40.0000	
*	9 Phenanthrene-d10	188	8.993	8.998	(1.000)	2206229	40.0000	
$	13 o-Terphenyl	230	9.304	9.309	(1.035)	208113	6.26053	410
*	17 Chrysene-d12	240	11.302	11.307	(1.000)	2159386	40.0000	
*	22 Perylene-d12	264	13.118	13.122	(1.000)	2217702	40.0000	

Data File: 1DD22005.D

Date: 22-APR-2013 11:30

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-136604/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: MB 660-136637/1-A

Matrix: Solid | Lab File ID: 1CD22012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.41(g) | Date Analyzed: 04/22/2013 15:20

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.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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\1C042213.b\1CD22012.D
Lab Smp Id: MB 660-136637/1-A
Inj Date : 22-APR-2013 15:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : MB 660-136637/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 12 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	15.410	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

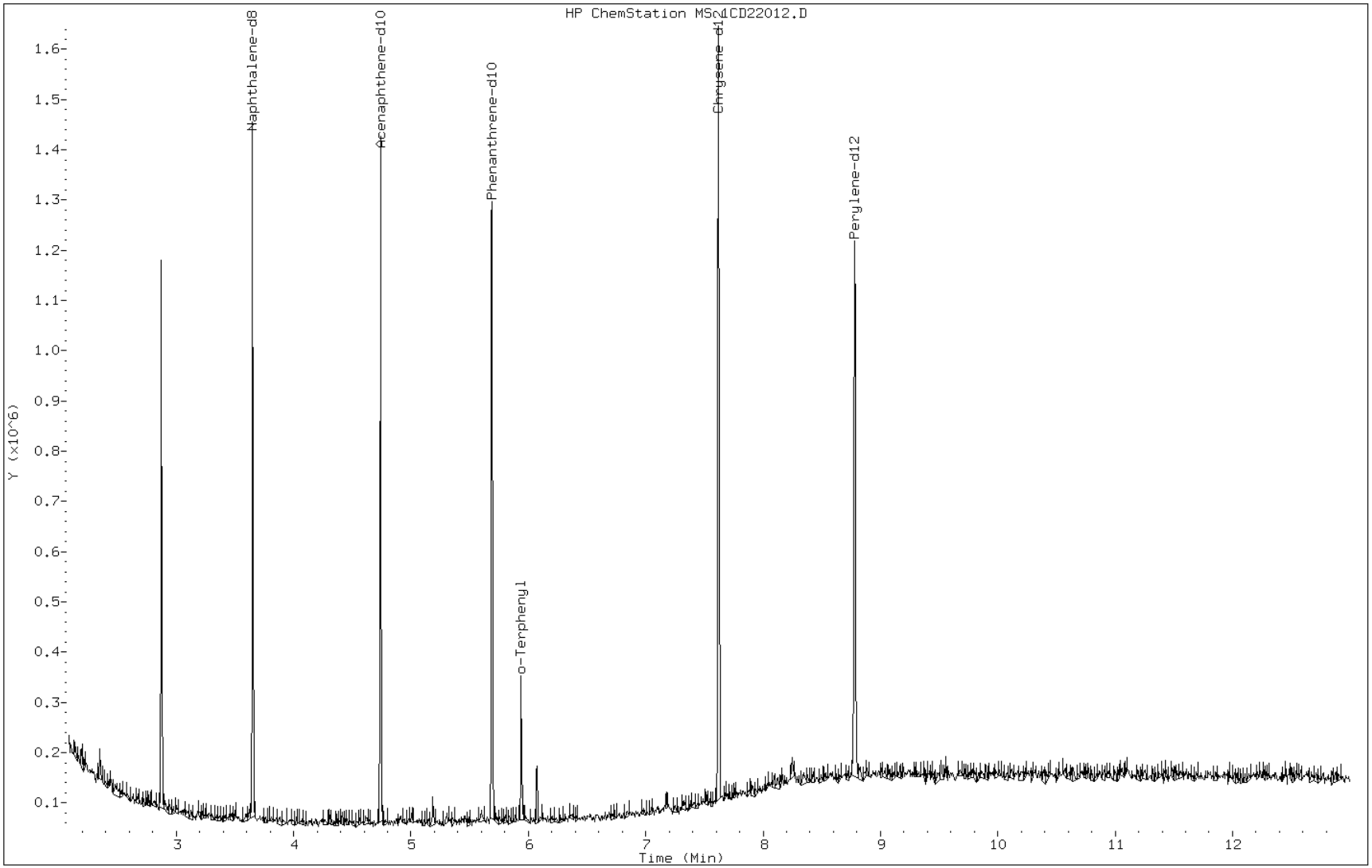
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.651	3.651	(1.000)	198118	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	144074	40.0000	
*	10 Phenanthrene-d10	188	5.692	5.680	(1.000)	250592	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.043)	24759	6.65611	431.9347
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	308173	40.0000	
*	23 Perylene-d12	264	8.780	8.762	(1.000)	325429	40.0000	

Data File: 1CD22012.D

Date: 22-APR-2013 15:20

Client ID: Instrument: BSMC5973.i

Sample Info: MB 660-136637/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: LCS 660-136551/2-A

Matrix: Solid | Lab File ID: 1CD19013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.08(g) | Date Analyzed: 04/19/2013 14:42

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.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	524		99	20
208-96-8	Acenaphthylene	490		40	5.0
120-12-7	Anthracene	540		8.4	4.2
56-55-3	Benzo[a]anthracene	569		8.0	3.9
50-32-8	Benzo[a]pyrene	435		10	5.2
205-99-2	Benzo[b]fluoranthene	519		12	6.1
191-24-2	Benzo[g,h,i]perylene	483		20	4.4
207-08-9	Benzo[k]fluoranthene	563		8.0	3.6
218-01-9	Chrysene	567		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	544		20	4.1
206-44-0	Fluoranthene	525		20	4.0
86-73-7	Fluorene	494		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	536		20	7.1
90-12-0	1-Methylnaphthalene	461		40	4.4
91-57-6	2-Methylnaphthalene	473		40	7.1
91-20-3	Naphthalene	495		40	4.4
85-01-8	Phenanthrene	505		8.0	3.9
129-00-0	Pyrene	495		20	3.7

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\1C041913.b\1CD19013.D
Lab Smp Id: LCS 660-136551/2-A
Inj Date : 19-APR-2013 14:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : LCS 660-136551/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 13 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	15.080	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	3.657	3.657	(1.000)	191532	40.0000	
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	127190	40.0000	
* 10	Phenanthrene-d10	188	5.686	5.686	(1.000)	236731	40.0000	
$ 14	o-Terphenyl	230	5.933	5.933	(1.043)	26335	7.40748	491.2124
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	297661	40.0000	
* 23	Perylene-d12	264	8.768	8.768	(1.000)	312222	40.0000	
2	Naphthalene	128	3.669	3.669	(1.003)	38667	7.46841	495.2525
3	2-Methylnaphthalene	142	4.092	4.092	(1.119)	23736	7.12763	472.6545
4	1-Methylnaphthalene	142	4.157	4.157	(1.137)	23006	6.95648	461.3052
5	Acenaphthylene	152	4.651	4.657	(0.981)	39807	7.38601	489.7884
7	Acenaphthene	154	4.763	4.763	(1.005)	25670	7.90345	524.1012
9	Fluorene	166	5.080	5.080	(1.072)	30782	7.44740	493.8596
11	Phenanthrene	178	5.698	5.698	(1.002)	52858	7.61979	505.2912
12	Anthracene	178	5.733	5.733	(1.008)	56005	8.14908	540.3896

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	53776	8.40151	557.1291
15 Fluoranthene	202	6.533	6.533	(1.149)	60806	7.91786	525.0567
16 Pyrene	202	6.698	6.698	(0.880)	63182	7.46114	494.7705
17 Benzo(a)anthracene	228	7.610	7.610	(0.999)	72269	8.58580	569.3502
19 Chrysene	228	7.633	7.639	(1.002)	71229	8.55421	567.2551
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	61761	7.83180	519.3498
21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964)	75793	8.49377	563.2476
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	53416	6.55285	434.5391
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127)	60307	8.08612	536.2145(M)
25 Dibenzo(a,h)anthracene	278	9.898	9.892	(1.129)	62001	8.20193	543.8945
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.165)	55607	7.27793	482.6211

QC Flag Legend

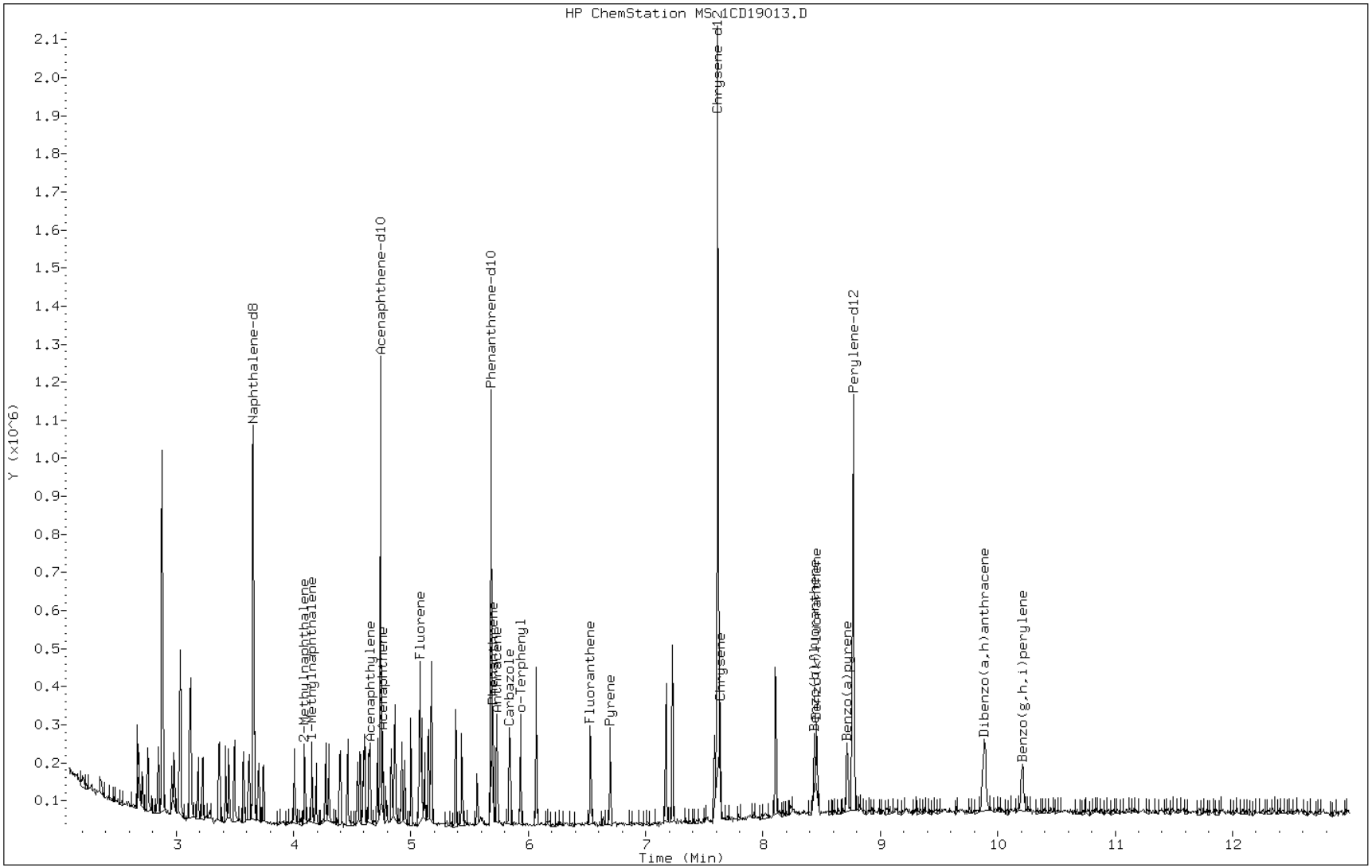
M - Compound response manually integrated.

Data File: 1CD19013.D

Date: 19-APR-2013 14:42

Client ID: Instrument: BSMC5973.i

Sample Info: LCS 660-136551/2-A Operator: SCC



Manual Integration Report

Data File: 1CD19013.D
Inj. Date and Time: 19-APR-2013 14:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

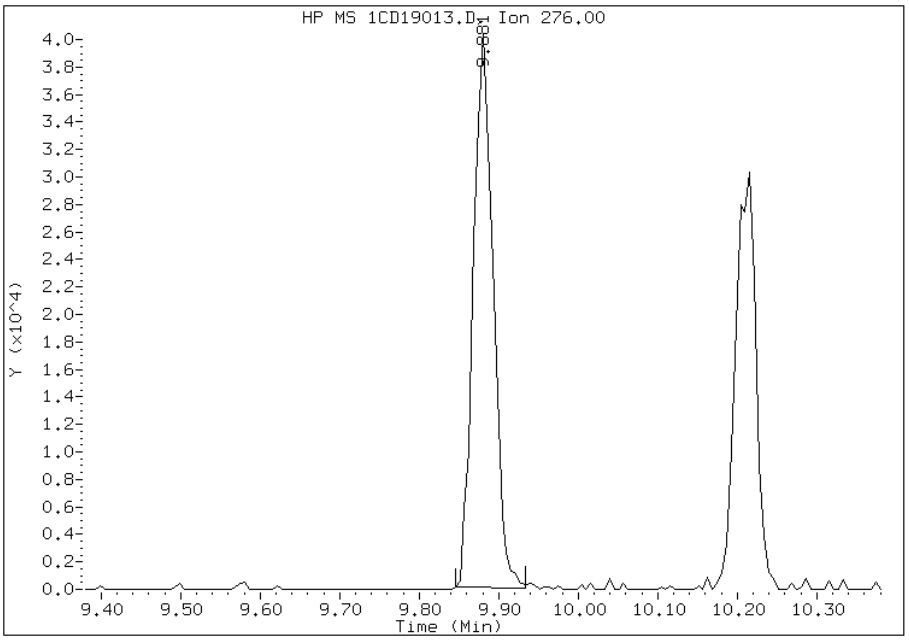
Processing Integration Results

RT: 9.88

Response: 69015

Amount: 9

Conc: 608



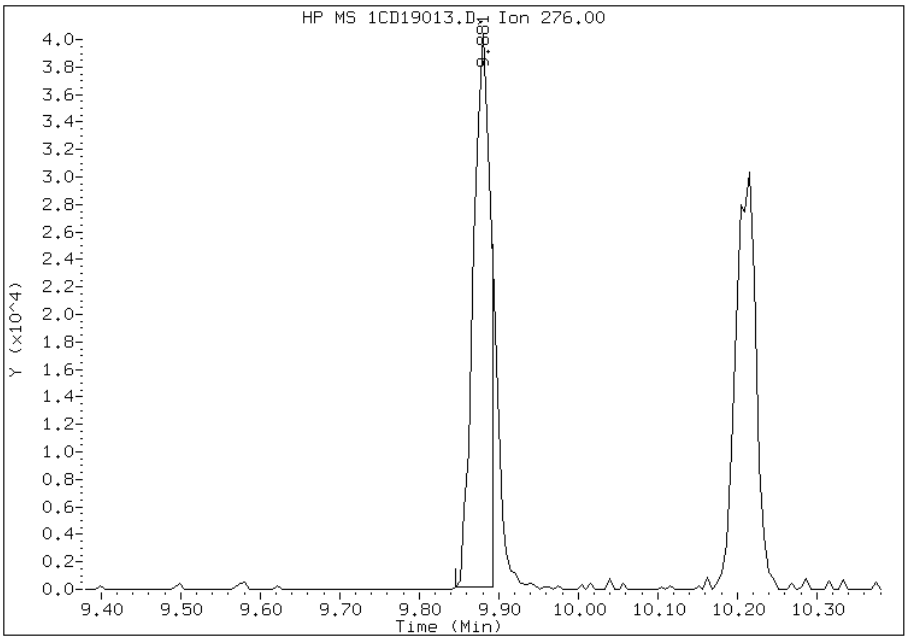
Manual Integration Results

RT: 9.88

Response: 60307

Amount: 8

Conc: 536



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: LCS 660-136604/2-A

Matrix: Solid | Lab File ID: 1DD22006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.16(g) | Date Analyzed: 04/22/2013 11:53

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.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450		99	20
208-96-8	Acenaphthylene	469		40	4.9
120-12-7	Anthracene	453		8.3	4.2
56-55-3	Benzo[a]anthracene	476		7.9	3.9
50-32-8	Benzo[a]pyrene	427		10	5.1
205-99-2	Benzo[b]fluoranthene	482		12	6.0
191-24-2	Benzo[g,h,i]perylene	480		20	4.4
207-08-9	Benzo[k]fluoranthene	482		7.9	3.6
218-01-9	Chrysene	459		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	501		20	4.1
206-44-0	Fluoranthene	479		20	4.0
86-73-7	Fluorene	481		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	481		20	7.0
90-12-0	1-Methylnaphthalene	467		40	4.4
91-57-6	2-Methylnaphthalene	455		40	7.0
91-20-3	Naphthalene	440		40	4.4
85-01-8	Phenanthrene	444		7.9	3.9
129-00-0	Pyrene	448		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22006.D
Lab Smp Id: LCS 660-136604/2-A
Inj Date : 22-APR-2013 11:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136604/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	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	6.051	6.054	(1.000)	1931895	40.0000	
* 6	Acenaphthene-d10	164	7.737	7.734	(1.000)	1141255	40.0000	
* 9	Phenanthrene-d10	188	8.994	8.998	(1.000)	1907584	40.0000	
$ 13	o-Terphenyl	230	9.306	9.309	(1.035)	198982	6.92297	460
* 17	Chrysene-d12	240	11.303	11.307	(1.000)	1920971	40.0000	
* 22	Perylene-d12	264	13.119	13.122	(1.000)	1914100	40.0000	
2	Naphthalene	128	6.074	6.077	(1.004)	320453	6.67357	440
3	2-Methylnaphthalene	142	6.779	6.783	(1.120)	213795	6.89722	450
4	1-Methylnaphthalene	142	6.873	6.877	(1.136)	207428	7.08617	470
5	Acenaphthylene	152	7.608	7.611	(0.983)	343399	7.10929	470
7	Acenaphthene	154	7.760	7.764	(1.003)	203580	6.82793	450
8	Fluorene	166	8.201	8.204	(1.060)	257419	7.29070	480
10	Phenanthrene	178	9.012	9.015	(1.002)	353481	6.72736	440
11	Anthracene	178	9.053	9.056	(1.007)	358478	6.87382	450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.194	9.197	(1.022)	290517	6.31550	420
14 Fluoranthene	202	9.993	10.002	(1.111)	392320	7.25577	480
15 Pyrene	202	10.181	10.184	(0.901)	391971	6.79483	450
16 Benzo(a)anthracene	228	11.286	11.289	(0.998)	400828	7.21704	480
18 Chrysene	228	11.327	11.330	(1.002)	362453	6.96008	460
19 Benzo(b)fluoranthene	252	12.572	12.582	(0.958)	349587	7.31129	480
20 Benzo(k)fluoranthene	252	12.608	12.623	(0.961)	368258	7.31063	480
21 Benzo(a)pyrene	252	13.019	13.034	(0.992)	310643	6.46599	430
23 Indeno(1,2,3-cd)pyrene	276	14.688	14.709	(1.120)	373399	7.28901	480(M)
24 Dibenzo(a,h)anthracene	278	14.717	14.732	(1.122)	366455	7.59645	500
25 Benzo(g,h,i)perylene	276	15.116	15.143	(1.152)	358749	7.27315	480

QC Flag Legend

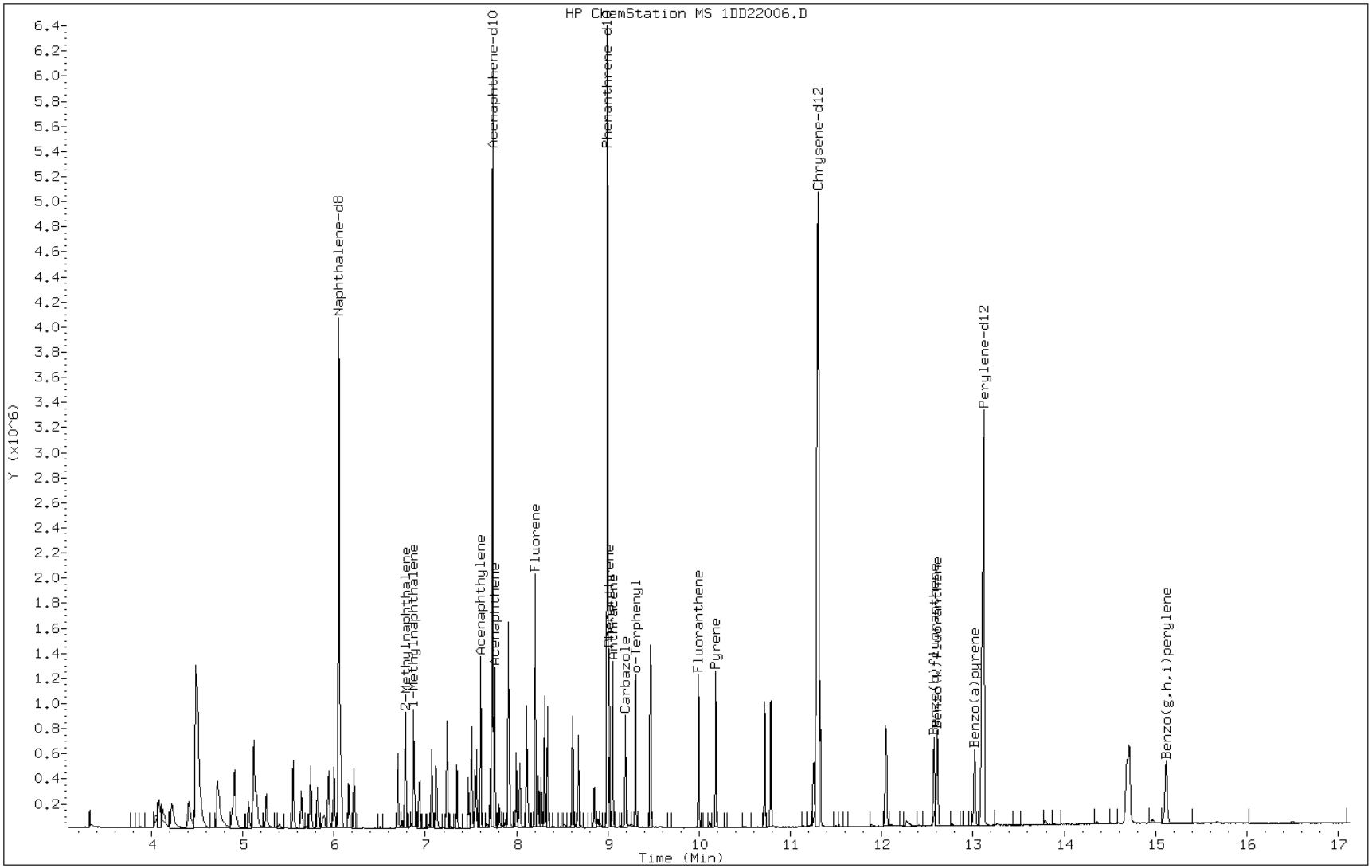
M - Compound response manually integrated.

Data File: 1DD22006.D

Date: 22-APR-2013 11:53

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-136604/2-A Operator: SCC



Manual Integration Report

Data File: 1DD22006.D
Inj. Date and Time: 22-APR-2013 11:53
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

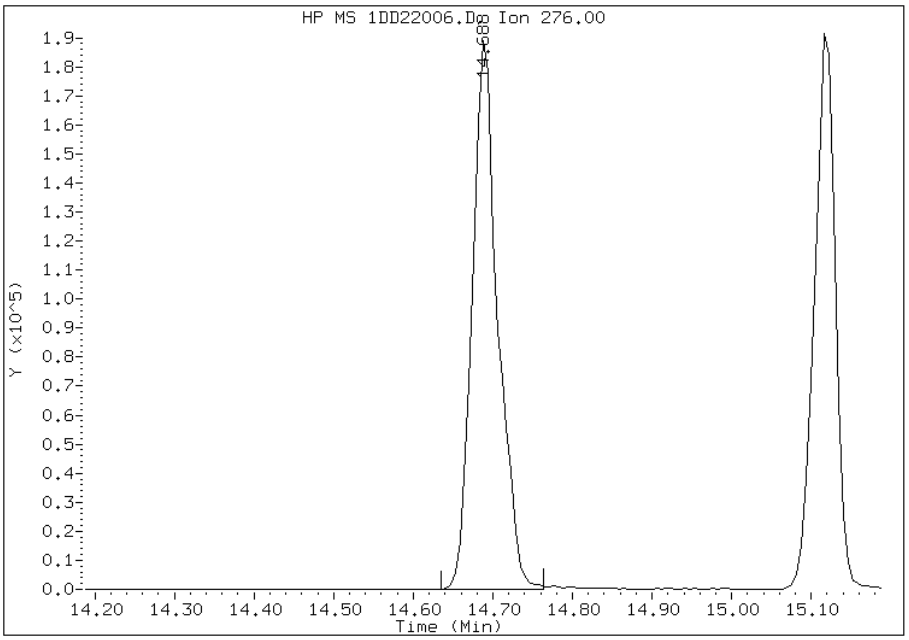
Processing Integration Results

RT: 14.69

Response: 420841

Amount: 8

Conc: 542



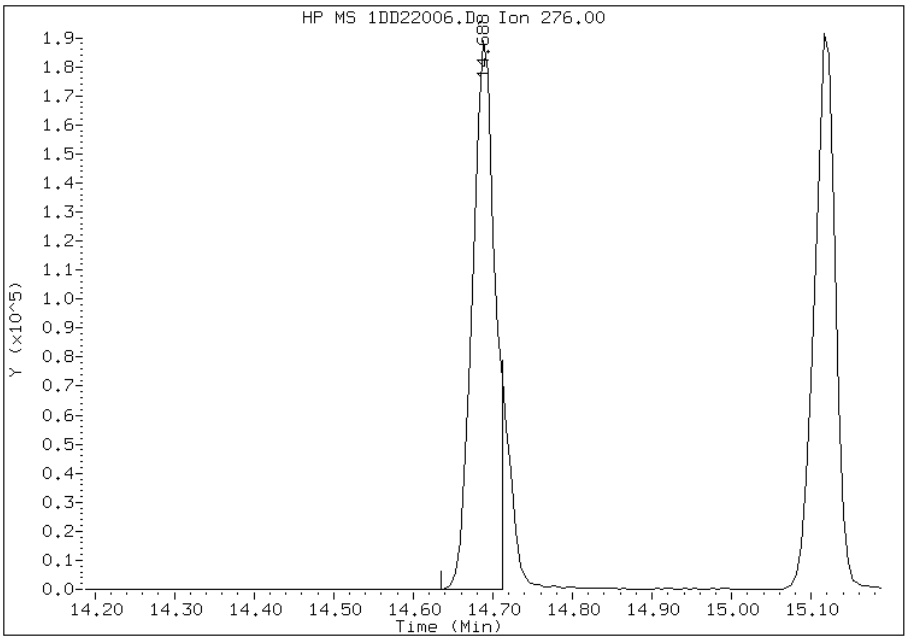
Manual Integration Results

RT: 14.69

Response: 373399

Amount: 7

Conc: 481



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: LCS 660-136637/2-A

Matrix: Solid | Lab File ID: 1CD22013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.15(g) | Date Analyzed: 04/22/2013 15:38

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.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	537		99	20
208-96-8	Acenaphthylene	492		40	5.0
120-12-7	Anthracene	528		8.3	4.2
56-55-3	Benzo[a]anthracene	579		7.9	3.9
50-32-8	Benzo[a]pyrene	446		10	5.1
205-99-2	Benzo[b]fluoranthene	556		12	6.0
191-24-2	Benzo[g,h,i]perylene	468		20	4.4
207-08-9	Benzo[k]fluoranthene	589		7.9	3.6
218-01-9	Chrysene	465		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	553		20	4.1
206-44-0	Fluoranthene	538		20	4.0
86-73-7	Fluorene	534		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	400		20	7.0
90-12-0	1-Methylnaphthalene	423		40	4.4
91-57-6	2-Methylnaphthalene	435		40	7.0
91-20-3	Naphthalene	472		40	4.4
85-01-8	Phenanthrene	534		7.9	3.9
129-00-0	Pyrene	479		20	3.7

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\1C042213.b\1CD22013.D
Lab Smp Id: lcs 660-136637/2-a
Inj Date : 22-APR-2013 15:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136637/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 13 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	15.150	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	3.651	3.651	(1.000)	194740	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	124944	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	229447	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.045)	25400	7.37467	486.7765
*	18 Chrysene-d12	240	7.615	7.615	(1.000)	303066	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	303188	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	37627	7.14782	471.8029
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	22222	6.58467	434.6317
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	21545	6.40739	422.9301
	5 Acenaphthylene	152	4.651	4.651	(0.981)	39427	7.44701	491.5516
	7 Acenaphthene	154	4.757	4.757	(1.004)	25974	8.14080	537.3465
	9 Fluorene	166	5.074	5.080	(1.071)	32833	8.08642	533.7569
	11 Phenanthrene	178	5.698	5.698	(1.003)	54408	8.09306	534.1951
	12 Anthracene	178	5.727	5.733	(1.008)	53288	7.99988	528.0452

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	54248	8.74430	577.1817
15 Fluoranthene	202	6.527	6.527	(1.149)	60632	8.14584	537.6791
16 Pyrene	202	6.692	6.692	(0.879)	62591	7.25953	479.1767
17 Benzo(a)anthracene	228	7.604	7.603	(0.998)	75189	8.77340	579.1021
19 Chrysene	228	7.633	7.633	(1.002)	59731	7.04543	465.0448
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	64478	8.41996	555.7730
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	77359	8.92758	589.2795
22 Benzo(a)pyrene	252	8.715	8.709	(0.995)	53452	6.75265	445.7195
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	42679	6.06644	400.4251(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	61593	8.38045	553.1649
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	52584	7.08734	467.8113

QC Flag Legend

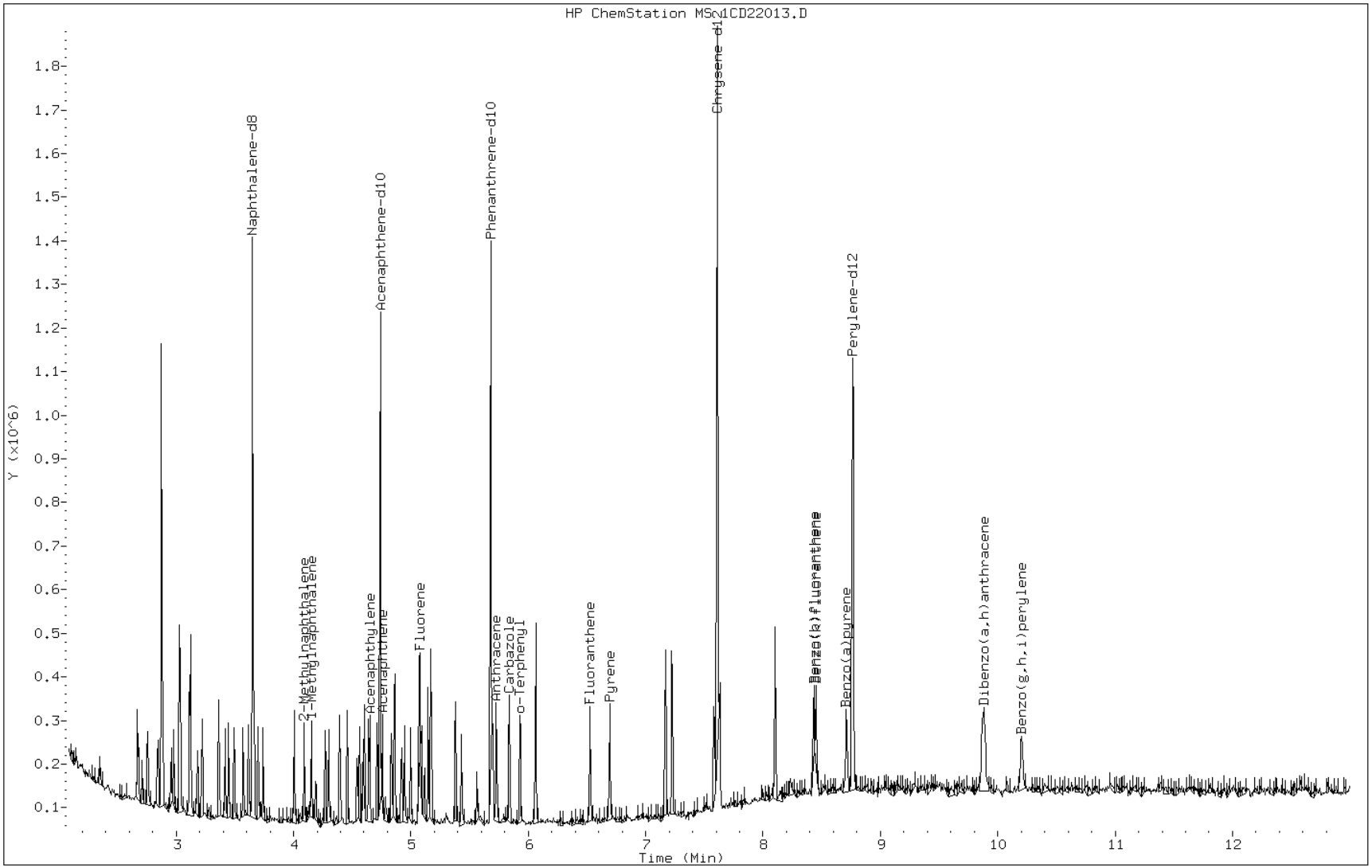
M - Compound response manually integrated.

Data File: 1CD22013.D

Date: 22-APR-2013 15:38

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136637/2-a Operator: SCC



Manual Integration Report

Data File: 1CD22013.D
Inj. Date and Time: 22-APR-2013 15:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

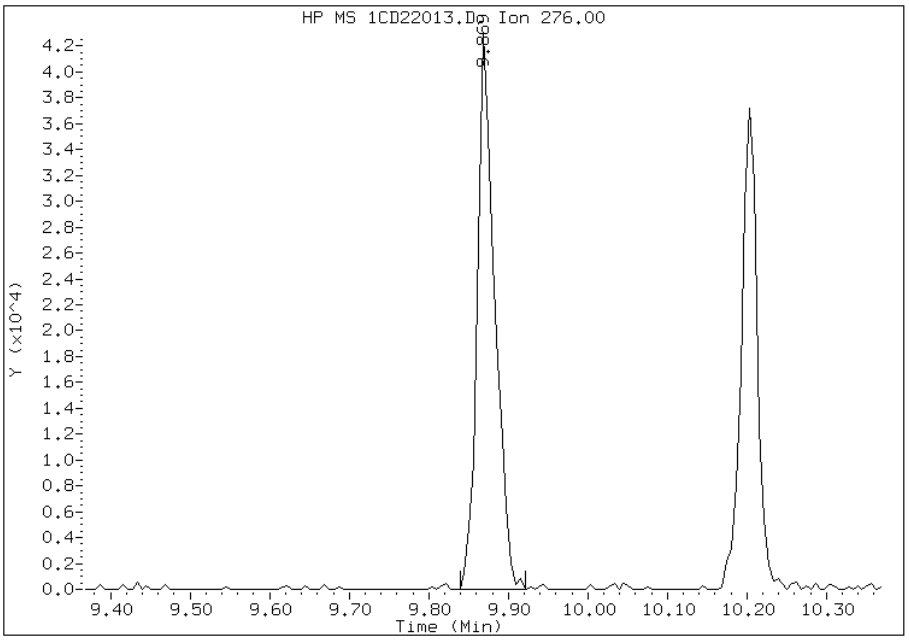
Processing Integration Results

RT: 9.87

Response: 65345

Amount: 9

Conc: 591



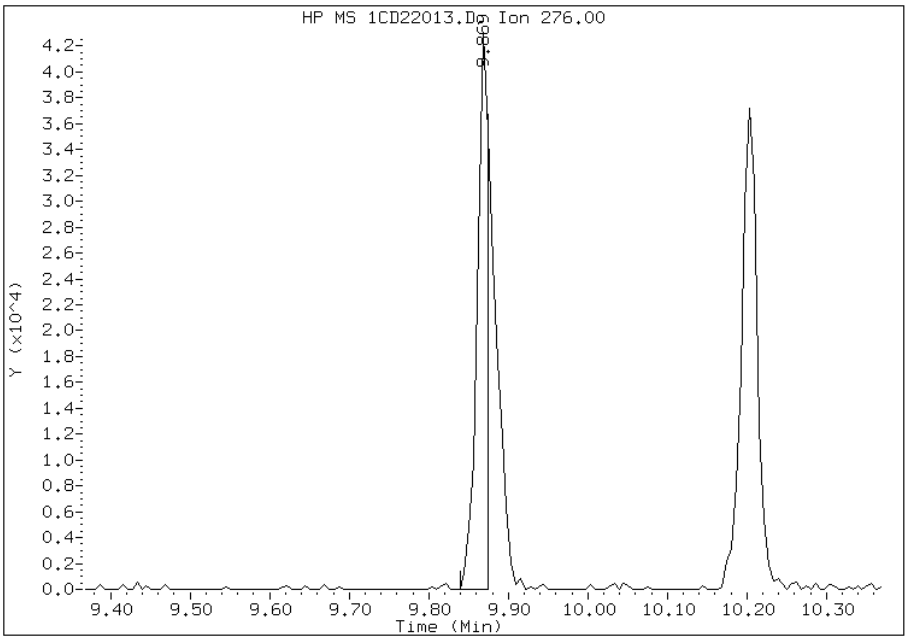
Manual Integration Results

RT: 9.87

Response: 42679

Amount: 6

Conc: 400



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: 680-89220-A-41-B MS

Matrix: Solid | Lab File ID: 1CD19019.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 14.95(g) | Date Analyzed: 04/19/2013 16:39

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

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

% Moisture: 39.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	755		170	33
208-96-8	Acenaphthylene	765		67	8.3
120-12-7	Anthracene	845		14	7.0
56-55-3	Benzo[a]anthracene	880		13	6.5
50-32-8	Benzo[a]pyrene	795		17	8.7
205-99-2	Benzo[b]fluoranthene	1160		20	10
191-24-2	Benzo[g,h,i]perylene	729		33	7.3
207-08-9	Benzo[k]fluoranthene	893		13	6.0
218-01-9	Chrysene	894		15	7.5
53-70-3	Dibenz(a,h)anthracene	610		33	6.8
206-44-0	Fluoranthene	1080		33	6.7
86-73-7	Fluorene	847		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	690		33	12
90-12-0	1-Methylnaphthalene	810		67	7.3
91-57-6	2-Methylnaphthalene	942		67	12
91-20-3	Naphthalene	899		67	7.3
85-01-8	Phenanthrene	999		13	6.5
129-00-0	Pyrene	941		33	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19019.D
Lab Smp Id: 680-89220-a-41-b ms
Inj Date : 19-APR-2013 16:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89220-a-41-b ms
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.657	3.657	(1.000)	214315	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	156773	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	278425	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.043)	28002	6.76305	452.3779
*	18 Chrysene-d12	240	7.615	7.615	(1.000)	345195	40.0000	
*	23 Perylene-d12	264	8.768	8.768	(1.000)	316003	40.0000	
	2 Naphthalene	128	3.669	3.669	(1.003)	46855	8.08783	540.9922
	3 2-Methylnaphthalene	142	4.098	4.092	(1.121)	31770	8.47246	566.7200
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	26965	7.28682	487.4124
	5 Acenaphthylene	152	4.657	4.657	(0.983)	45684	6.87696	459.9971
	7 Acenaphthene	154	4.763	4.763	(1.005)	27168	6.78625	453.9299
	9 Fluorene	166	5.080	5.080	(1.072)	38800	7.61590	509.4250
	11 Phenanthrene	178	5.698	5.698	(1.002)	73307	8.98797	601.2020
	12 Anthracene	178	5.733	5.733	(1.008)	61427	7.59955	508.3309

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	54308	7.21406	482.5454
15 Fluoranthene	202	6.533	6.533	(1.149)	87760	9.71638	649.9253
16 Pyrene	202	6.698	6.698	(0.880)	83105	8.46246	566.0505
17 Benzo(a)anthracene	228	7.609	7.610	(0.999)	77226	7.91133	529.1862
19 Chrysene	228	7.639	7.639	(1.003)	77651	8.04132	537.8810
20 Benzo(b)fluoranthene	252	8.433	8.439	(0.962)	83338	10.4415	698.4272
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.964)	72500	8.02753	536.9585
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	58998	7.15103	478.3296
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.880	(1.126)	45656	6.20956	415.3550(M)
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128)	40783	5.48701	367.0240
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.165)	50709	6.55746	438.6260

QC Flag Legend

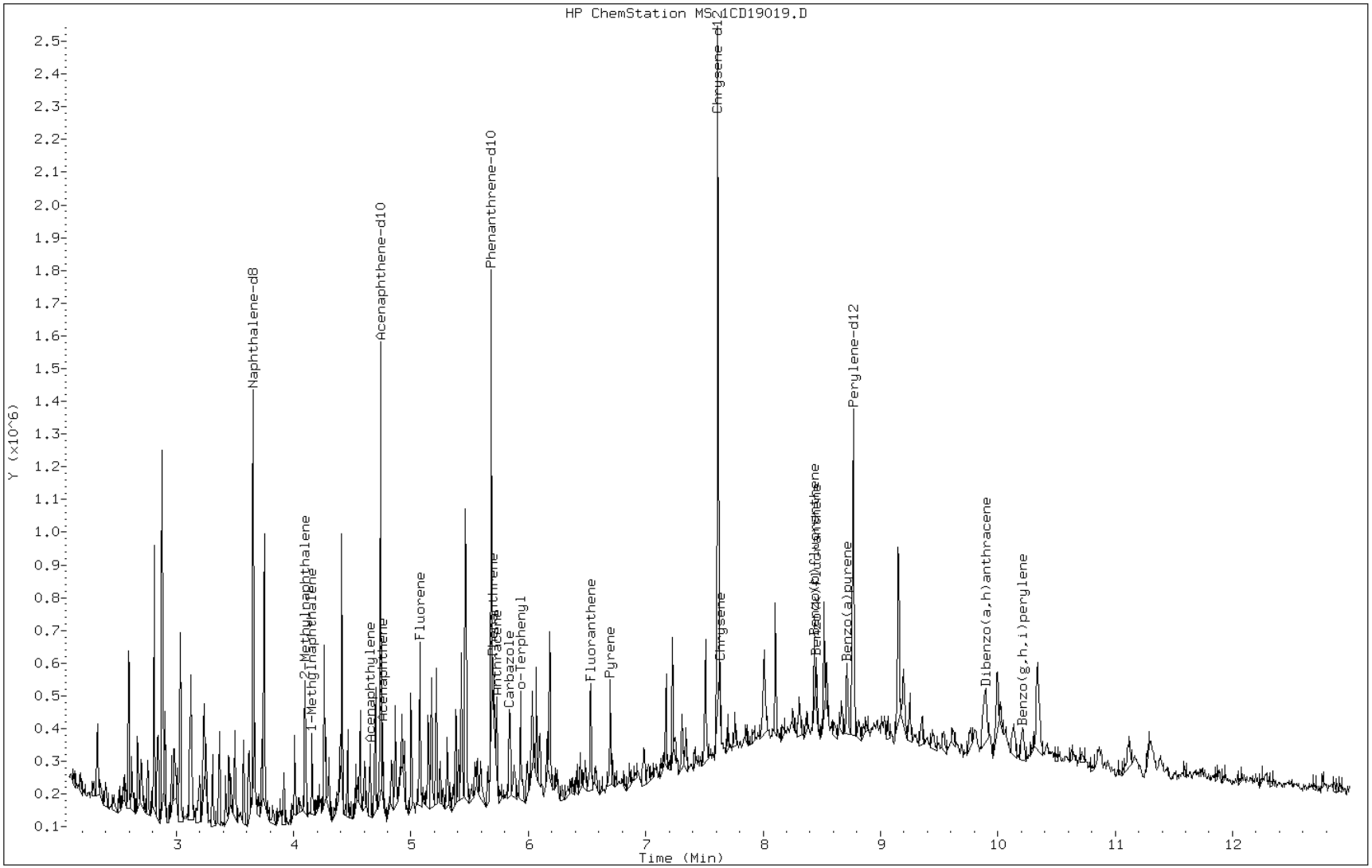
M - Compound response manually integrated.

Data File: 1CD19019.D

Date: 19-APR-2013 16:39

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89220-a-41-b ms Operator: SCC



Manual Integration Report

Data File: 1CD19019.D
Inj. Date and Time: 19-APR-2013 16:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

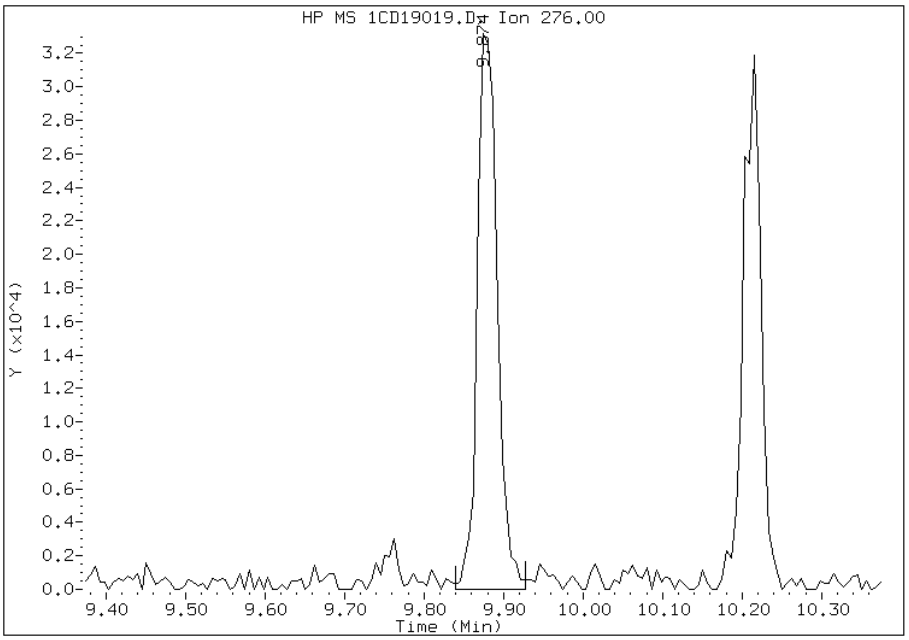
Processing Integration Results

RT: 9.87

Response: 57857

Amount: 8

Conc: 515



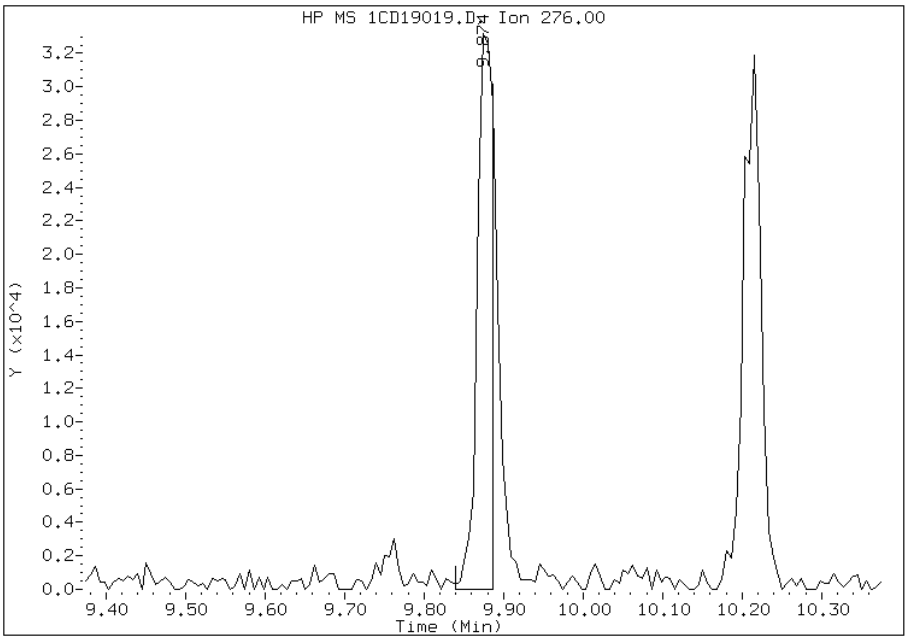
Manual Integration Results

RT: 9.87

Response: 45656

Amount: 6

Conc: 415



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: 680-89275-A-21-B MS

Matrix: Solid | Lab File ID: 1DD22008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.39(g) | Date Analyzed: 04/22/2013 12:38

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	478		130	26
208-96-8	Acenaphthylene	865		52	6.5
120-12-7	Anthracene	754		11	5.5
56-55-3	Benzo[a]anthracene	1430		10	5.1
50-32-8	Benzo[a]pyrene	1360		14	6.8
205-99-2	Benzo[b]fluoranthene	2150		16	7.9
191-24-2	Benzo[g,h,i]perylene	1150		26	5.7
207-08-9	Benzo[k]fluoranthene	1060		10	4.7
218-01-9	Chrysene	1470		12	5.9
53-70-3	Dibenz(a,h)anthracene	765		26	5.3
206-44-0	Fluoranthene	2060		26	5.2
86-73-7	Fluorene	512		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1150		26	9.2
90-12-0	1-Methylnaphthalene	603		52	5.7
91-57-6	2-Methylnaphthalene	659		52	9.2
91-20-3	Naphthalene	832		52	5.7
85-01-8	Phenanthrene	1090		10	5.1
129-00-0	Pyrene	1510		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22008.D
Lab Smp Id: 680-89275-A-21-B MS
Inj Date : 22-APR-2013 12:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-21-B MS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	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	6.054	6.054	(1.000)	2093932	40.0000	
* 6	Acenaphthene-d10	164	7.740	7.734	(1.000)	1246507	40.0000	
* 9	Phenanthrene-d10	188	8.998	8.998	(1.000)	2071815	40.0000	
$ 13	o-Terphenyl	230	9.303	9.309	(1.034)	167283	5.35875	350
* 17	Chrysene-d12	240	11.313	11.307	(1.000)	2259125	40.0000	
* 22	Perylene-d12	264	13.146	13.122	(1.000)	2571607	40.0000	
2	Naphthalene	128	6.078	6.077	(1.004)	498993	9.58758	620
3	2-Methylnaphthalene	142	6.783	6.783	(1.120)	255054	7.59153	490
4	1-Methylnaphthalene	142	6.877	6.877	(1.136)	220606	6.95317	450
5	Acenaphthylene	152	7.611	7.611	(0.983)	526149	9.97296	650
7	Acenaphthene	154	7.764	7.764	(1.003)	179295	5.50567	360
8	Fluorene	166	8.205	8.204	(1.060)	227494	5.89911	380
10	Phenanthrene	178	9.015	9.015	(1.002)	714932	12.5278	810
11	Anthracene	178	9.057	9.056	(1.007)	492088	8.68783	560

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.197	(1.022)	318037	6.36570	410
14 Fluoranthene	202	10.003	10.002	(1.112)	1397459	23.7966	1500(R)
15 Pyrene	202	10.191	10.184	(0.901)	1180551	17.4016	1100(R)
16 Benzo(a)anthracene	228	11.301	11.289	(0.999)	1076374	16.4795	1100(R)
18 Chrysene	228	11.336	11.330	(1.002)	1040248	16.9856	1100(R)
19 Benzo(b)fluoranthene	252	12.605	12.582	(0.959)	1590586	24.7603	1600(R)
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	829787	12.2611	800
21 Benzo(a)pyrene	252	13.052	13.034	(0.993)	1009299	15.6370	1000(R)
23 Indeno(1,2,3-cd)pyrene	276	14.744	14.709	(1.122)	909071	13.2085	860(RM)
24 Dibenzo(a,h)anthracene	278	14.762	14.732	(1.123)	571257	8.81417	570
25 Benzo(g,h,i)perylene	276	15.185	15.143	(1.155)	881863	13.3074	860(R)

QC Flag Legend

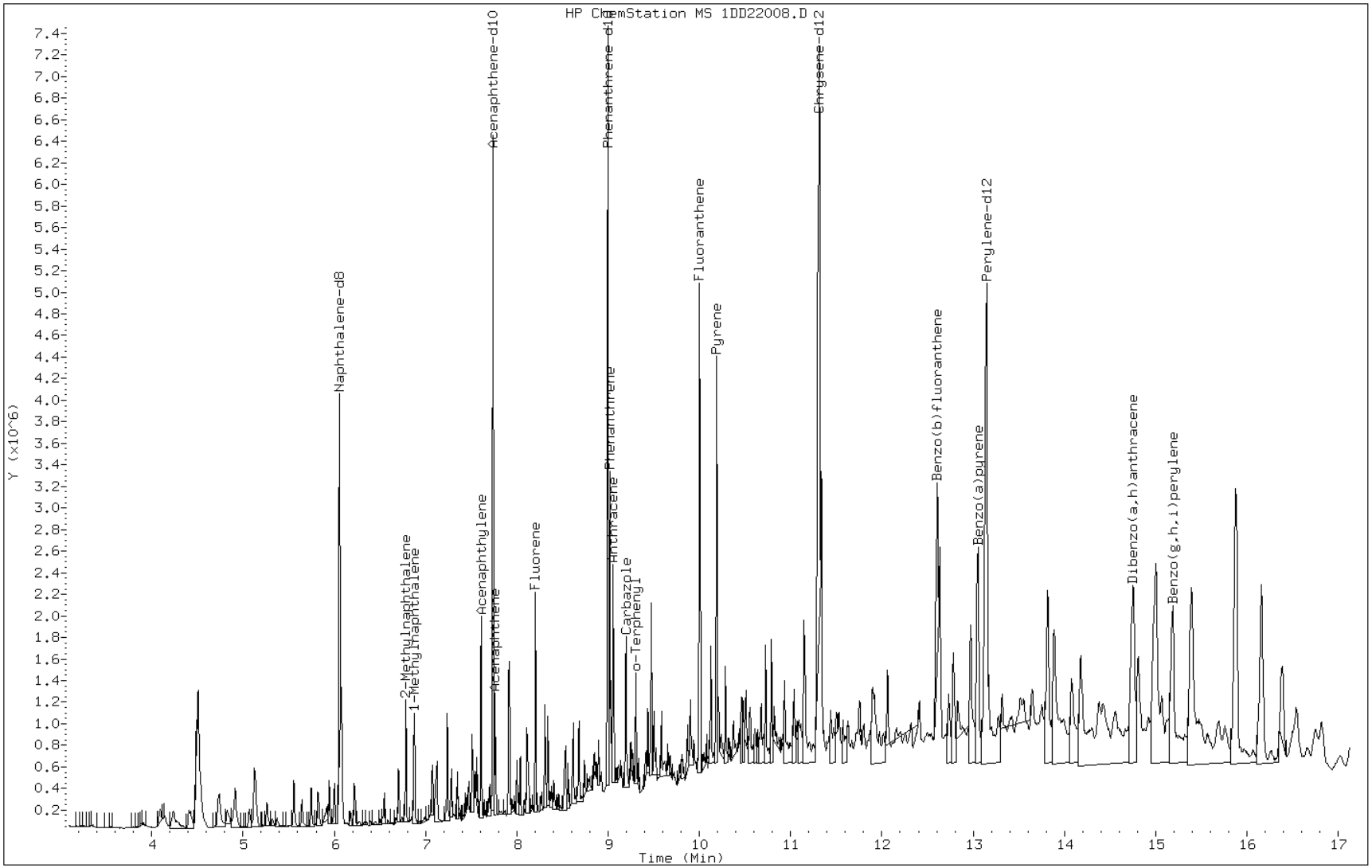
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD22008.D

Date: 22-APR-2013 12:38

Client ID: Instrument: BSMSD.i

Sample Info: 680-89275-A-21-B MS Operator: SCC



Manual Integration Report

Data File: 1DD22008.D
Inj. Date and Time: 22-APR-2013 12:38
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

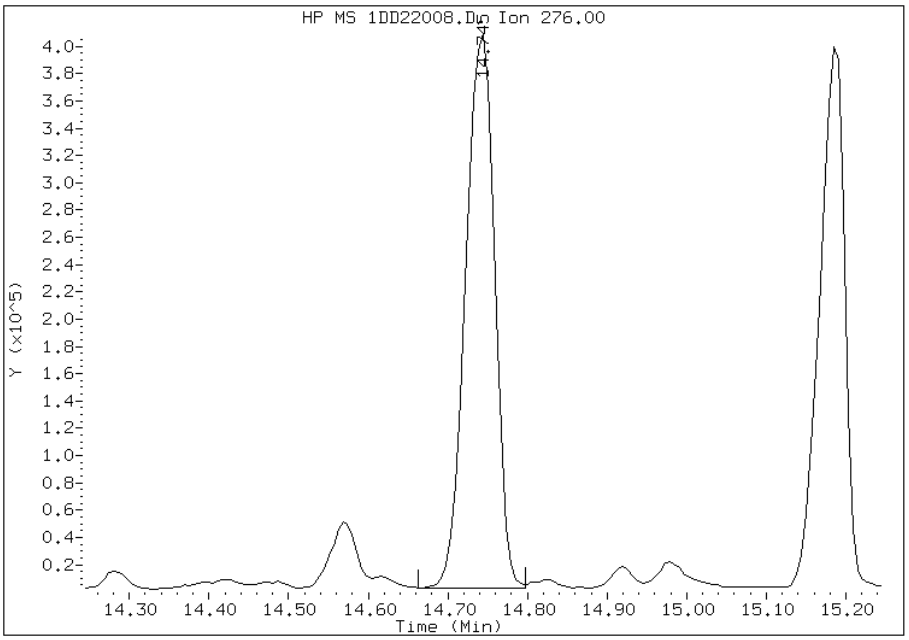
Processing Integration Results

RT: 14.74

Response: 1031008

Amount: 15

Conc: 973



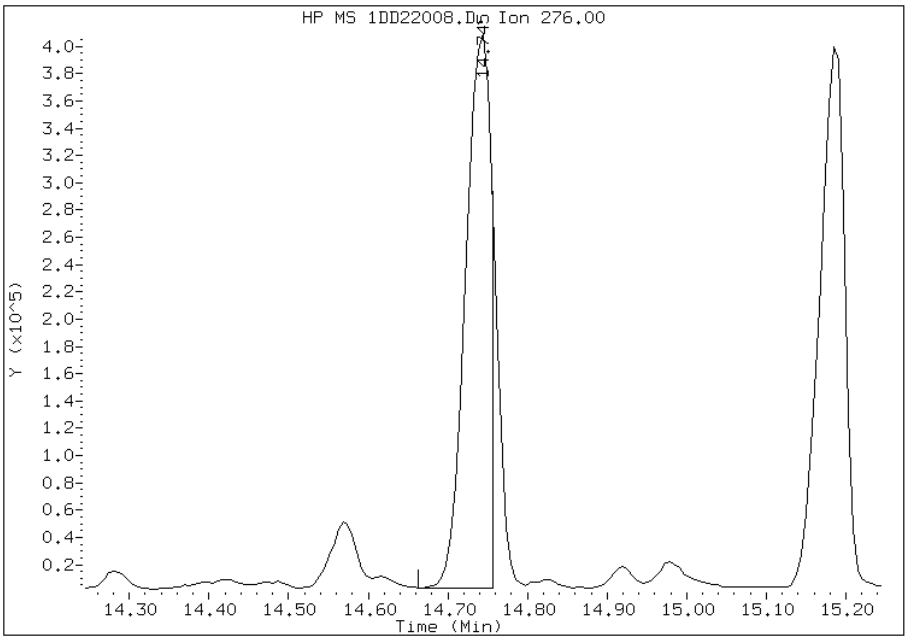
Manual Integration Results

RT: 14.74

Response: 909071

Amount: 13

Conc: 858



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0202C-CS-SP MS | Lab Sample ID: 680-89328-8 MS

Matrix: Solid | Lab File ID: 1CD22017.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 11:16

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.96(g) | Date Analyzed: 04/22/2013 16:51

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	654		500	99
208-96-8	Acenaphthylene	680		200	25
120-12-7	Anthracene	501		42	21
56-55-3	Benzo[a]anthracene	927		40	19
50-32-8	Benzo[a]pyrene	690		52	26
205-99-2	Benzo[b]fluoranthene	964		60	30
191-24-2	Benzo[g,h,i]perylene	816		99	22
207-08-9	Benzo[k]fluoranthene	744		40	18
218-01-9	Chrysene	777		45	22
53-70-3	Dibenz(a,h)anthracene	596		99	20
206-44-0	Fluoranthene	980		99	20
86-73-7	Fluorene	528		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	810		99	35
90-12-0	1-Methylnaphthalene	556		200	22
91-57-6	2-Methylnaphthalene	682		200	35
91-20-3	Naphthalene	483		200	22
85-01-8	Phenanthrene	833		40	19
129-00-0	Pyrene	890		99	18

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\1C042213.b\1CD22017.D
Lab Smp Id: 680-89328-a-8-b ms
Inj Date : 22-APR-2013 16:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-8-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 17 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.651	3.651	(1.000)	207649	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	130313	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	251724	40.0000	
$	14 o-Terphenyl	230	5.927	5.933	(1.043)	5498	2.00861	537.0624
*	18 Chrysene-d12	240	7.609	7.615	(1.000)	309063	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	299307	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	8195	1.45998	390.3699(Q)
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	6721	2.06307	551.6241
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	6029	1.68153	449.6077
	5 Acenaphthylene	152	4.651	4.651	(0.981)	11366	2.05837	550.3661
	7 Acenaphthene	154	4.757	4.757	(1.004)	6584	1.97854	529.0224
	9 Fluorene	166	5.074	5.080	(1.071)	6762	1.59679	426.9498
	11 Phenanthrene	178	5.692	5.698	(1.002)	18593	2.52162	674.2307
	12 Anthracene	178	5.727	5.733	(1.008)	11078	1.51591	405.3235

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	11749	1.72624	461.5604
15 Fluoranthene	202	6.527	6.527	(1.149)	24218	2.96572	792.9729
16 Pyrene	202	6.692	6.692	(0.879)	23685	2.69377	720.2586
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	24515	2.80502	750.0047
19 Chrysene	228	7.627	7.633	(1.002)	20314	2.34960	628.2343
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	22050	2.91677	779.8851
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	19251	2.25046	601.7276
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	16325	2.08910	558.5821
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	14062	2.45071	655.2710(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	10405	1.80461	482.5153
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	18085	2.46913	660.1943(M)

QC Flag Legend

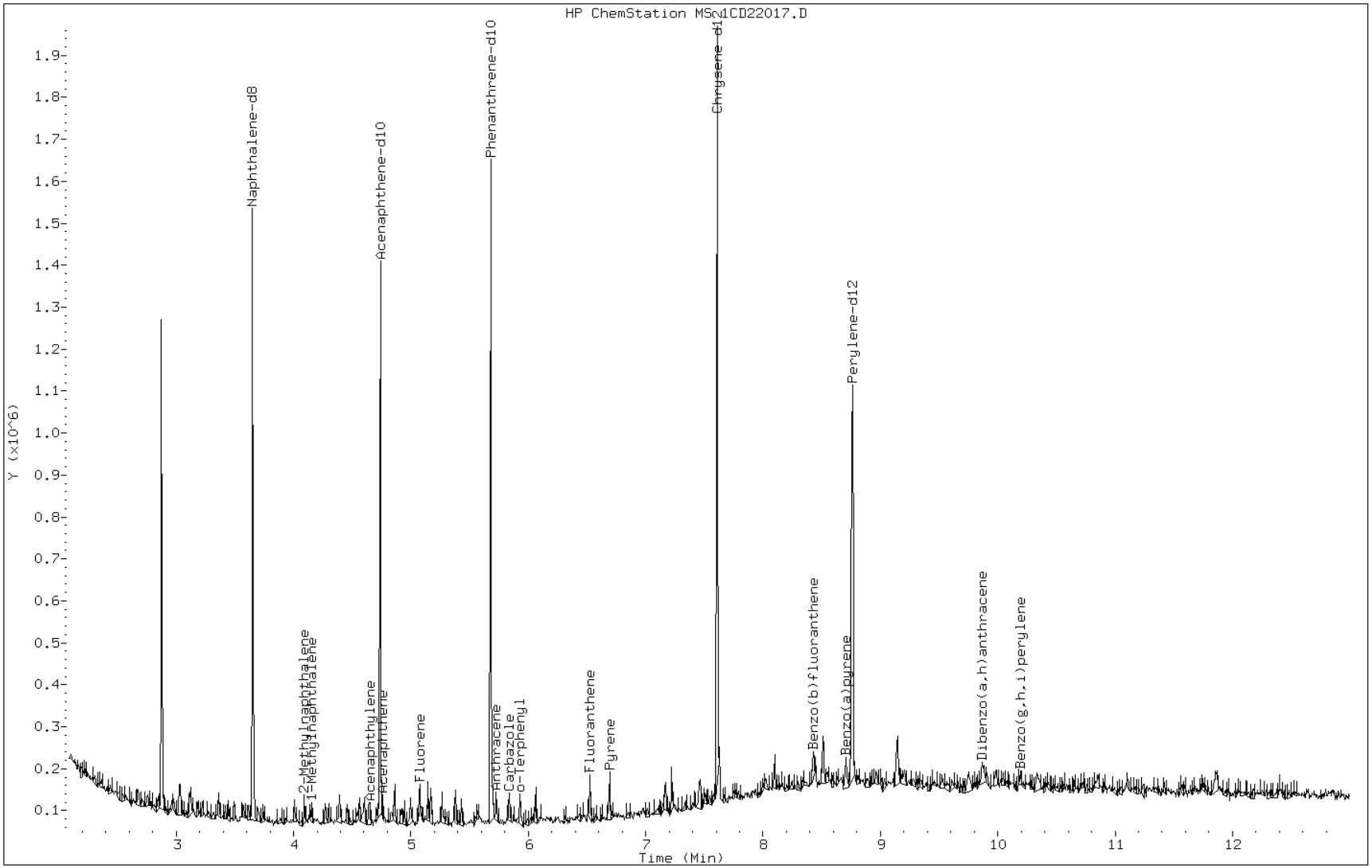
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD22017.D

Date: 22-APR-2013 16:51

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-b ms Operator: SCC



Manual Integration Report

Data File: 1CD22017.D
Inj. Date and Time: 22-APR-2013 16:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/23/2013

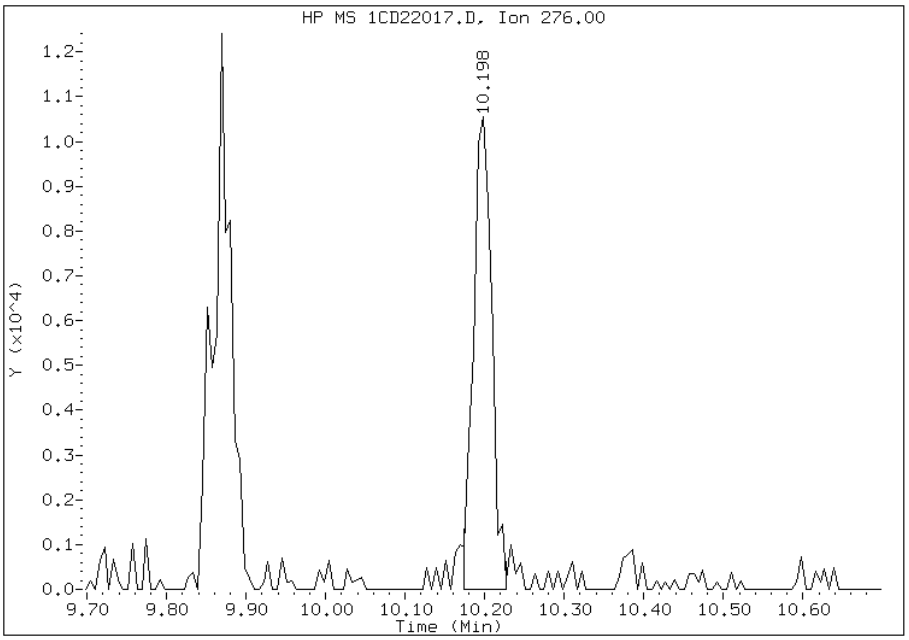
Processing Integration Results

RT: 10.20

Response: 16753

Amount: 2

Conc: 612



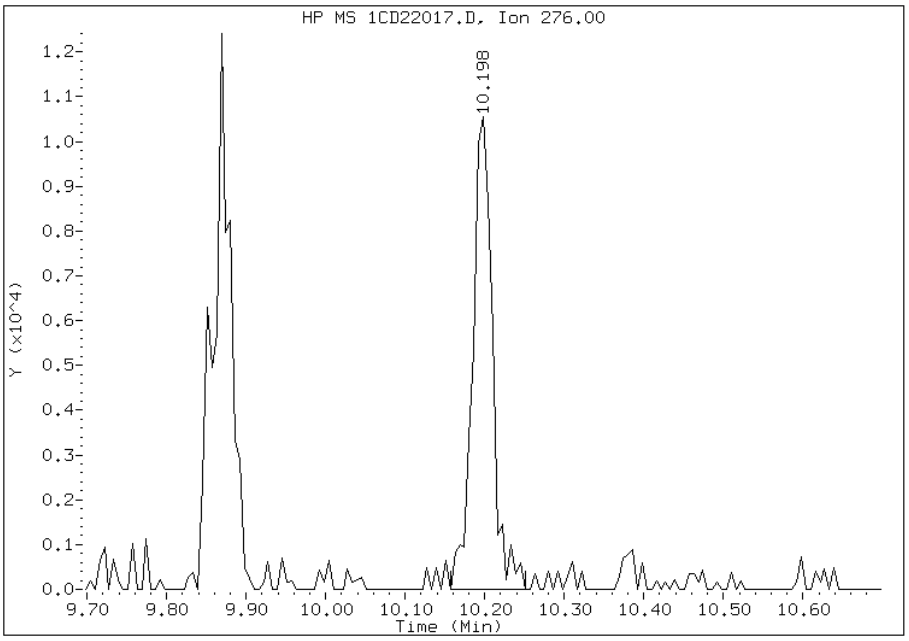
Manual Integration Results

RT: 10.20

Response: 18085

Amount: 2

Conc: 660



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22017.D
Inj. Date and Time: 22-APR-2013 16:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

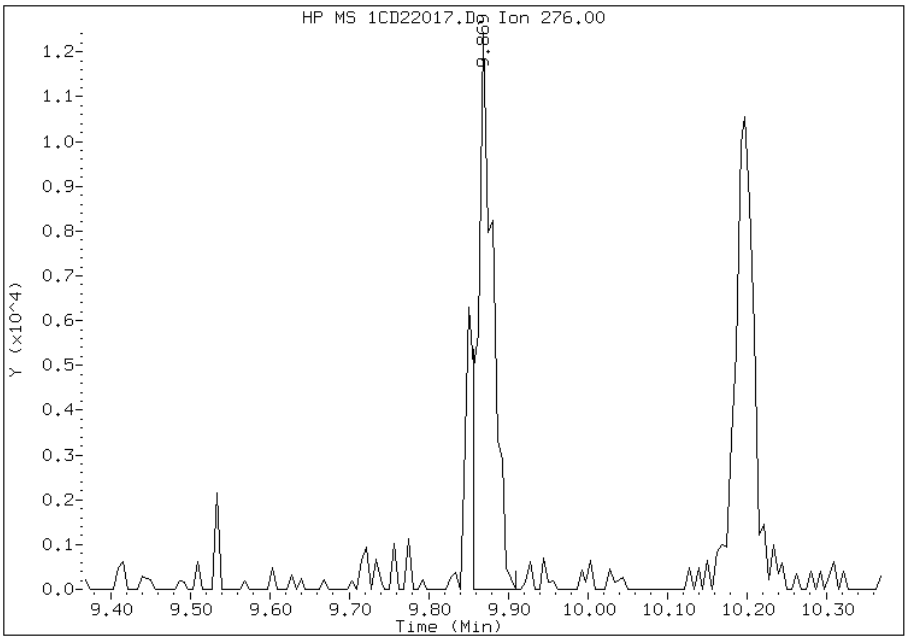
Processing Integration Results

RT: 9.87

Response: 16294

Amount: 3

Conc: 732



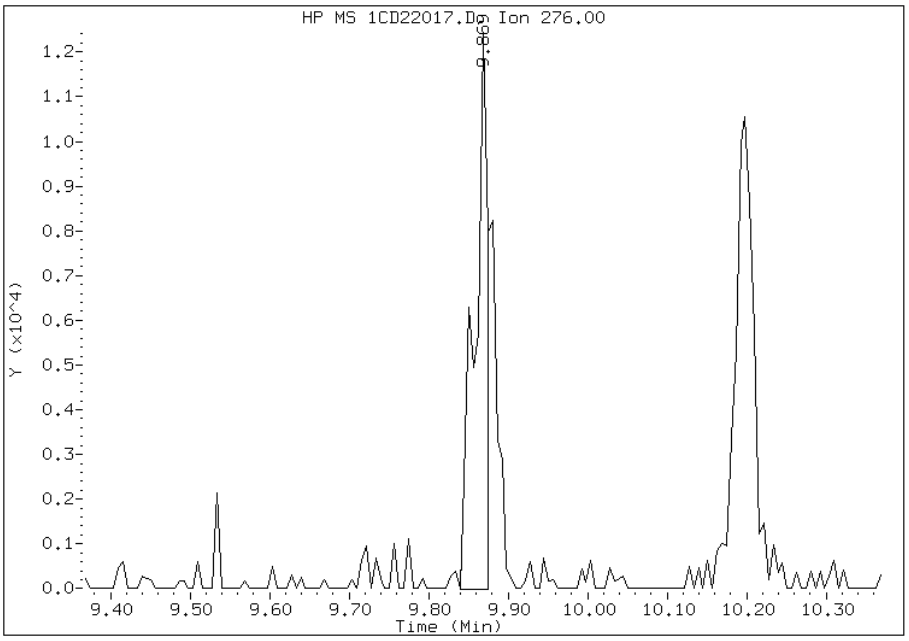
Manual Integration Results

RT: 9.87

Response: 14062

Amount: 2

Conc: 655



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:20
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: 680-89220-A-41-C MSD

Matrix: Solid | Lab File ID: 1CD19020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 14.96(g) | Date Analyzed: 04/19/2013 16:57

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

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

% Moisture: 39.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	720		170	33
208-96-8	Acenaphthylene	829		67	8.3
120-12-7	Anthracene	752		14	7.0
56-55-3	Benzo[a]anthracene	924		13	6.5
50-32-8	Benzo[a]pyrene	812		17	8.7
205-99-2	Benzo[b]fluoranthene	1340		20	10
191-24-2	Benzo[g,h,i]perylene	693		33	7.3
207-08-9	Benzo[k]fluoranthene	728		13	6.0
218-01-9	Chrysene	951		15	7.5
53-70-3	Dibenz(a,h)anthracene	686		33	6.8
206-44-0	Fluoranthene	976		33	6.7
86-73-7	Fluorene	777		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	688		33	12
90-12-0	1-Methylnaphthalene	978		67	7.3
91-57-6	2-Methylnaphthalene	853		67	12
91-20-3	Naphthalene	867		67	7.3
85-01-8	Phenanthrene	919		13	6.5
129-00-0	Pyrene	1010		33	6.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19020.D
Lab Smp Id: 680-89220-a-41-c ms
Inj Date : 19-APR-2013 16:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89220-a-41-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.657	3.657	(1.000)	234812	40.0000	
* 6	Acenaphthene-d10	164	4.745	4.739	(1.000)	166333	40.0000	
* 10	Phenanthrene-d10	188	5.686	5.686	(1.000)	324473	40.0000	
$ 14	o-Terphenyl	230	5.933	5.933	(1.043)	28312	5.95883	398.3176
* 18	Chrysene-d12	240	7.621	7.615	(1.000)	375136	40.0000	
* 23	Perylene-d12	264	8.768	8.768	(1.000)	361282	40.0000	
2	Naphthalene	128	3.669	3.669	(1.003)	49524	7.80233	521.5461
3	2-Methylnaphthalene	142	4.092	4.092	(1.119)	31427	7.67590	513.0949
4	1-Methylnaphthalene	142	4.157	4.157	(1.137)	35678	8.79975	588.2183
5	Acenaphthylene	152	4.657	4.657	(0.981)	52567	7.45827	498.5475
7	Acenaphthene	154	4.763	4.763	(1.004)	27516	6.47814	433.0309
9	Fluorene	166	5.080	5.080	(1.071)	37805	6.99410	467.5200
11	Phenanthrene	178	5.698	5.698	(1.002)	78628	8.27082	552.8621
12	Anthracene	178	5.733	5.733	(1.008)	63750	6.76766	452.3834

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	55839	6.36477	425.4527
15 Fluoranthene	202	6.533	6.533	(1.149)	92434	8.78152	586.9997
16 Pyrene	202	6.698	6.698	(0.879)	96912	9.08077	607.0031
17 Benzo(a)anthracene	228	7.610	7.610	(0.998)	88183	8.31279	555.6678
19 Chrysene	228	7.639	7.639	(1.002)	89819	8.55903	572.1273
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	110216	12.0784	807.3786
21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964)	67619	6.54874	437.7498
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	68906	7.30522	488.3166
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127)	52017	6.19025	413.7870(M)
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128)	52999	6.17581	412.8216
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.165)	55114	6.23386	416.7021

QC Flag Legend

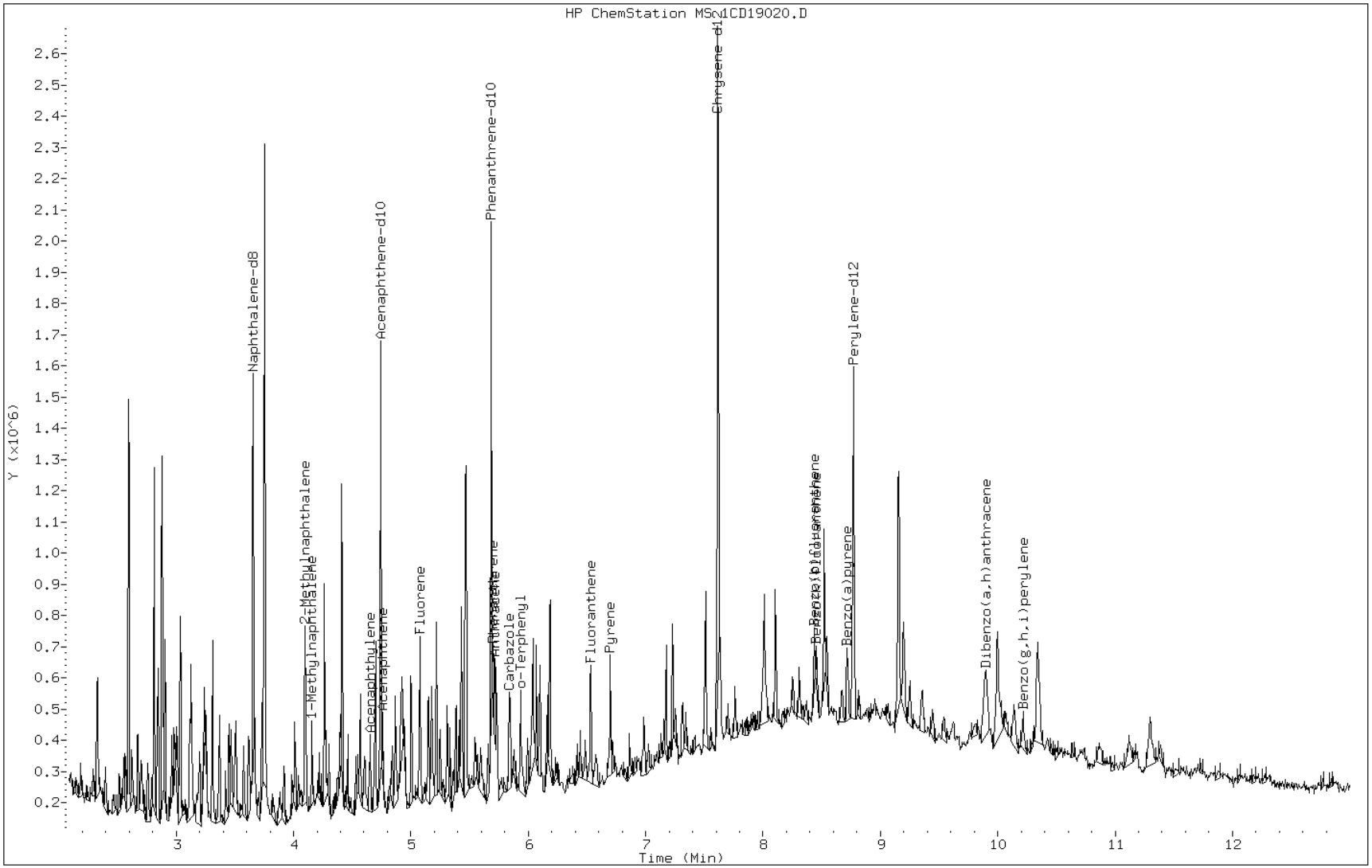
M - Compound response manually integrated.

Data File: 1CD19020.D

Date: 19-APR-2013 16:57

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89220-a-41-c msd Operator: SCC



Manual Integration Report

Data File: 1CD19020.D
Inj. Date and Time: 19-APR-2013 16:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

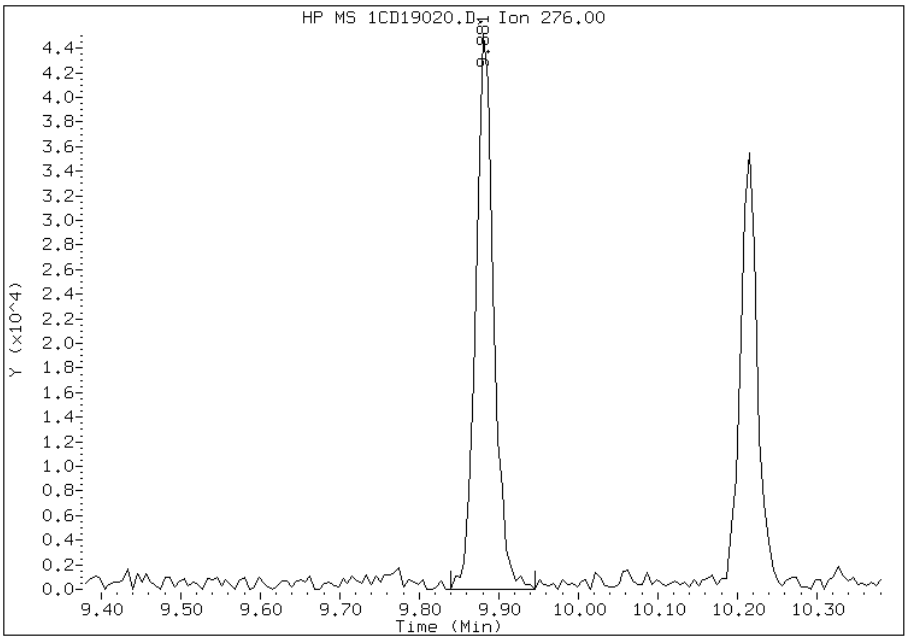
Processing Integration Results

RT: 9.88

Response: 70540

Amount: 8

Conc: 546



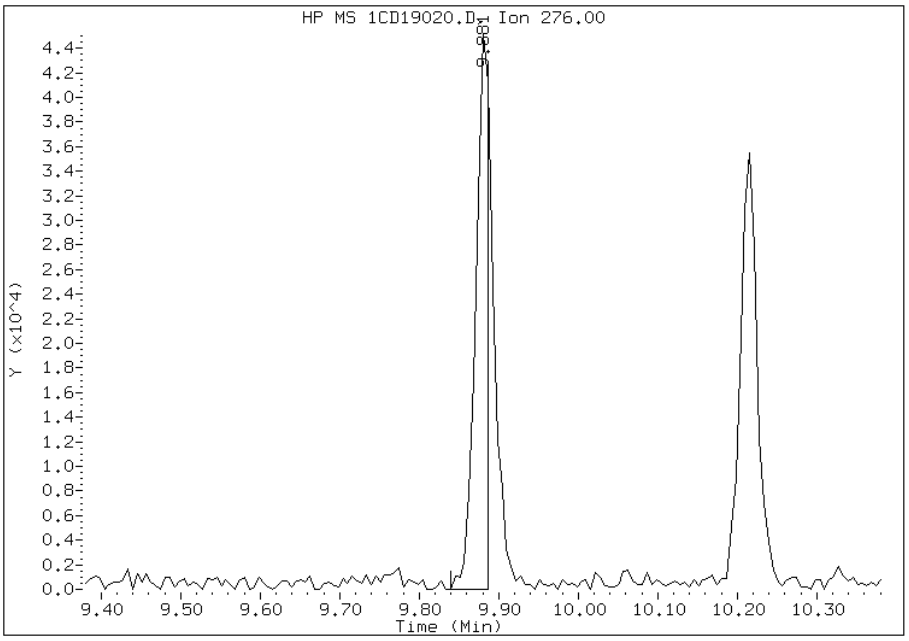
Manual Integration Results

RT: 9.88

Response: 52017

Amount: 6

Conc: 414



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: | Lab Sample ID: 680-89275-A-21-C MSD

Matrix: Solid | Lab File ID: 1DD22009.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.39(g) | Date Analyzed: 04/22/2013 13:00

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	571		130	26
208-96-8	Acenaphthylene	1010		52	6.5
120-12-7	Anthracene	957		11	5.5
56-55-3	Benzo[a]anthracene	1750		10	5.1
50-32-8	Benzo[a]pyrene	1700		14	6.8
205-99-2	Benzo[b]fluoranthene	2660		16	7.9
191-24-2	Benzo[g,h,i]perylene	1270		26	5.7
207-08-9	Benzo[k]fluoranthene	1260		10	4.7
218-01-9	Chrysene	1870		12	5.9
53-70-3	Dibenz(a,h)anthracene	865		26	5.3
206-44-0	Fluoranthene	2660		26	5.2
86-73-7	Fluorene	641		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1290		26	9.2
90-12-0	1-Methylnaphthalene	722		52	5.7
91-57-6	2-Methylnaphthalene	778		52	9.2
91-20-3	Naphthalene	973		52	5.7
85-01-8	Phenanthrene	1420		10	5.1
129-00-0	Pyrene	1850		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22009.D
Lab Smp Id: 680-89275-A-21-C MS
Inj Date : 22-APR-2013 13:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-21-C MSD
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 9 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	15.390	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	6.055	6.054	(1.000)	1863685	40.0000	
* 6 Acenaphthene-d10	164	7.741	7.734	(1.000)	1105330	40.0000	
* 9 Phenanthrene-d10	188	8.999	8.998	(1.000)	1822597	40.0000	
$ 13 o-Terphenyl	230	9.304	9.309	(1.034)	178395	6.49613	420
* 17 Chrysene-d12	240	11.319	11.307	(1.000)	2040070	40.0000	
* 22 Perylene-d12	264	13.147	13.122	(1.000)	2299548	40.0000	
2 Naphthalene	128	6.079	6.077	(1.004)	519360	11.2117	730
3 2-Methylnaphthalene	142	6.784	6.783	(1.120)	268040	8.96369	580
4 1-Methylnaphthalene	142	6.878	6.877	(1.136)	234965	8.32068	540
5 Acenaphthylene	152	7.612	7.611	(0.983)	544974	11.6491	760
7 Acenaphthene	154	7.765	7.764	(1.003)	190031	6.58066	430
8 Fluorene	166	8.205	8.204	(1.060)	252708	7.38990	480
10 Phenanthrene	178	9.016	9.015	(1.002)	821216	16.3580	1100(R)
11 Anthracene	178	9.057	9.056	(1.007)	549489	11.0278	720

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.197	(1.022)	341909	7.77928	500
14 Fluoranthene	202	10.003	10.002	(1.112)	1581341	30.6099	2000(R)
15 Pyrene	202	10.191	10.184	(0.900)	1303222	21.2725	1400(R)
16 Benzo(a)anthracene	228	11.302	11.289	(0.998)	1192368	20.2156	1300(R)
18 Chrysene	228	11.343	11.330	(1.002)	1190647	21.5289	1400(R)
19 Benzo(b)fluoranthene	252	12.612	12.582	(0.959)	1758451	30.6120	2000(R)
20 Benzo(k)fluoranthene	252	12.641	12.623	(0.962)	877480	14.4998	940(R)
21 Benzo(a)pyrene	252	13.059	13.034	(0.993)	1129163	19.5638	1300(R)
23 Indeno(1,2,3-cd)pyrene	276	14.751	14.709	(1.122)	914361	14.8572	960(RM)
24 Dibenzo(a,h)anthracene	278	14.768	14.732	(1.123)	577847	9.97068	650
25 Benzo(g,h,i)perylene	276	15.197	15.143	(1.156)	864547	14.5896	950(R)

QC Flag Legend

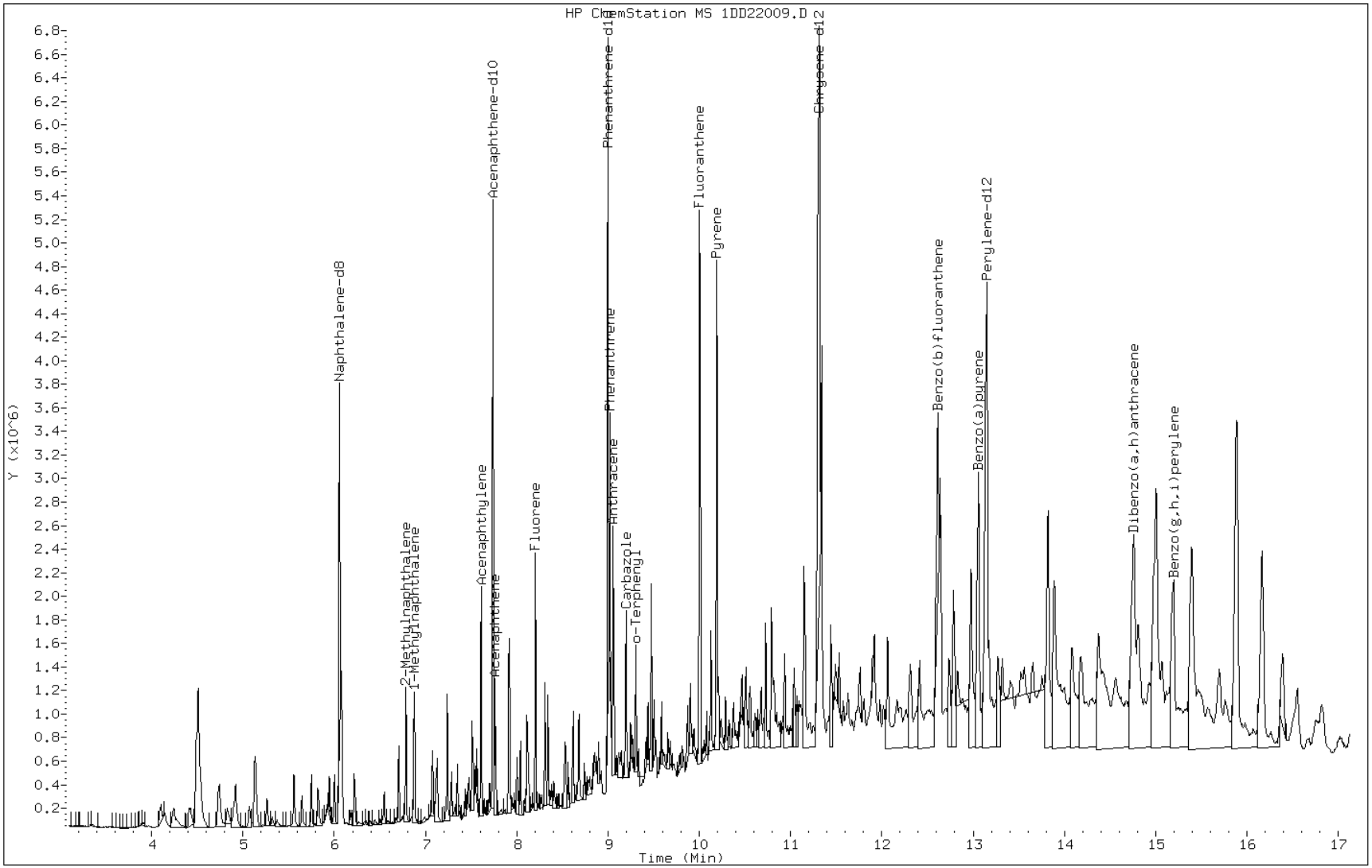
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD22009.D

Date: 22-APR-2013 13:00

Client ID: Instrument: BSMSD.i

Sample Info: 680-89275-A-21-C MSD Operator: SCC



Manual Integration Report

Data File: 1DD22009.D
Inj. Date and Time: 22-APR-2013 13:00
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

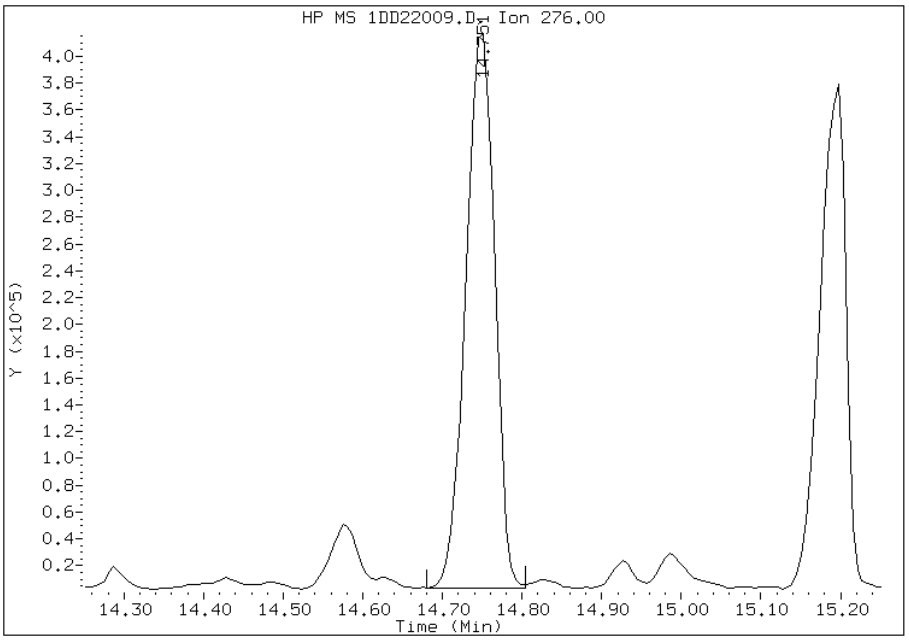
Processing Integration Results

RT: 14.75

Response: 1042444

Amount: 17

Conc: 1101



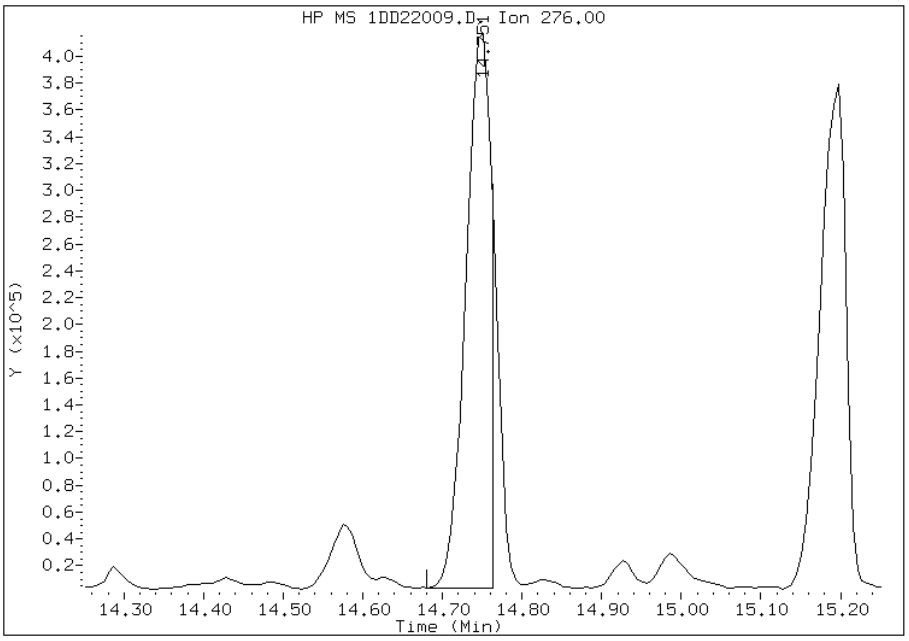
Manual Integration Results

RT: 14.75

Response: 914361

Amount: 15

Conc: 965



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89328-1

SDG No.: 68089328-1

Client Sample ID: HP0202C-CS-SP MSD | Lab Sample ID: 680-89328-8 MSD

Matrix: Solid | Lab File ID: 1CD22018.D

Analysis Method: 8270C LL | Date Collected: 04/11/2013 11:16

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.96(g) | Date Analyzed: 04/22/2013 17:10

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	551		500	99
208-96-8	Acenaphthylene	580		200	25
120-12-7	Anthracene	661		42	21
56-55-3	Benzo[a]anthracene	1190		40	19
50-32-8	Benzo[a]pyrene	1060		52	26
205-99-2	Benzo[b]fluoranthene	1300		60	30
191-24-2	Benzo[g,h,i]perylene	868		99	22
207-08-9	Benzo[k]fluoranthene	840		40	18
218-01-9	Chrysene	1240		45	22
53-70-3	Dibenz(a,h)anthracene	611		99	20
206-44-0	Fluoranthene	1860		99	20
86-73-7	Fluorene	601		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	1030		99	35
90-12-0	1-Methylnaphthalene	439		200	22
91-57-6	2-Methylnaphthalene	528		200	35
91-20-3	Naphthalene	476		200	22
85-01-8	Phenanthrene	1250		40	19
129-00-0	Pyrene	1680		99	18

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\1C042213.b\1CD22018.D
Lab Smp Id: 680-89328-a-8-c msd
Inj Date : 22-APR-2013 17:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-8-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 18 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.651	3.651	(1.000)	215035	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	137990	40.0000	
* 10 Phenanthrene-d10	188	5.680	5.680	(1.000)	254165	40.0000	
$ 14 o-Terphenyl	230	5.927	5.933	(1.043)	5608	2.02208	540.6635
* 18 Chrysene-d12	240	7.609	7.615	(1.000)	301869	40.0000	
* 23 Perylene-d12	264	8.762	8.762	(1.000)	310059	40.0000	
2 Naphthalene	128	3.663	3.663	(1.003)	8368	1.43960	384.9194
3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	5153	1.59824	427.3363
4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	4933	1.32859	355.2387
5 Acenaphthylene	152	4.651	4.651	(0.981)	10268	1.75607	469.5372
7 Acenaphthene	154	4.757	4.757	(1.004)	5874	1.66698	445.7161
9 Fluorene	166	5.074	5.080	(1.071)	8150	1.81749	485.9587
11 Phenanthrene	178	5.698	5.698	(1.003)	28232	3.78967	1013.2819(R)
12 Anthracene	178	5.727	5.733	(1.008)	14751	1.99914	534.5284

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	13379	1.94685	520.5472
15 Fluoranthene	202	6.527	6.527	(1.149)	46309	5.61650	1501.7386(R)
16 Pyrene	202	6.692	6.692	(0.879)	43747	5.09405	1362.0463(R)
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	30718	3.59853	962.1738(R)
19 Chrysene	228	7.633	7.633	(1.003)	31586	3.74043	1000.1137(R)
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	30772	3.92936	1050.6312(R)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	22532	2.54267	679.8591
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	25963	3.20725	857.5536
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	19971	3.12264	834.9292(M)
25 Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	11139	1.84998	494.6463
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	19927	2.62627	702.2111

QC Flag Legend

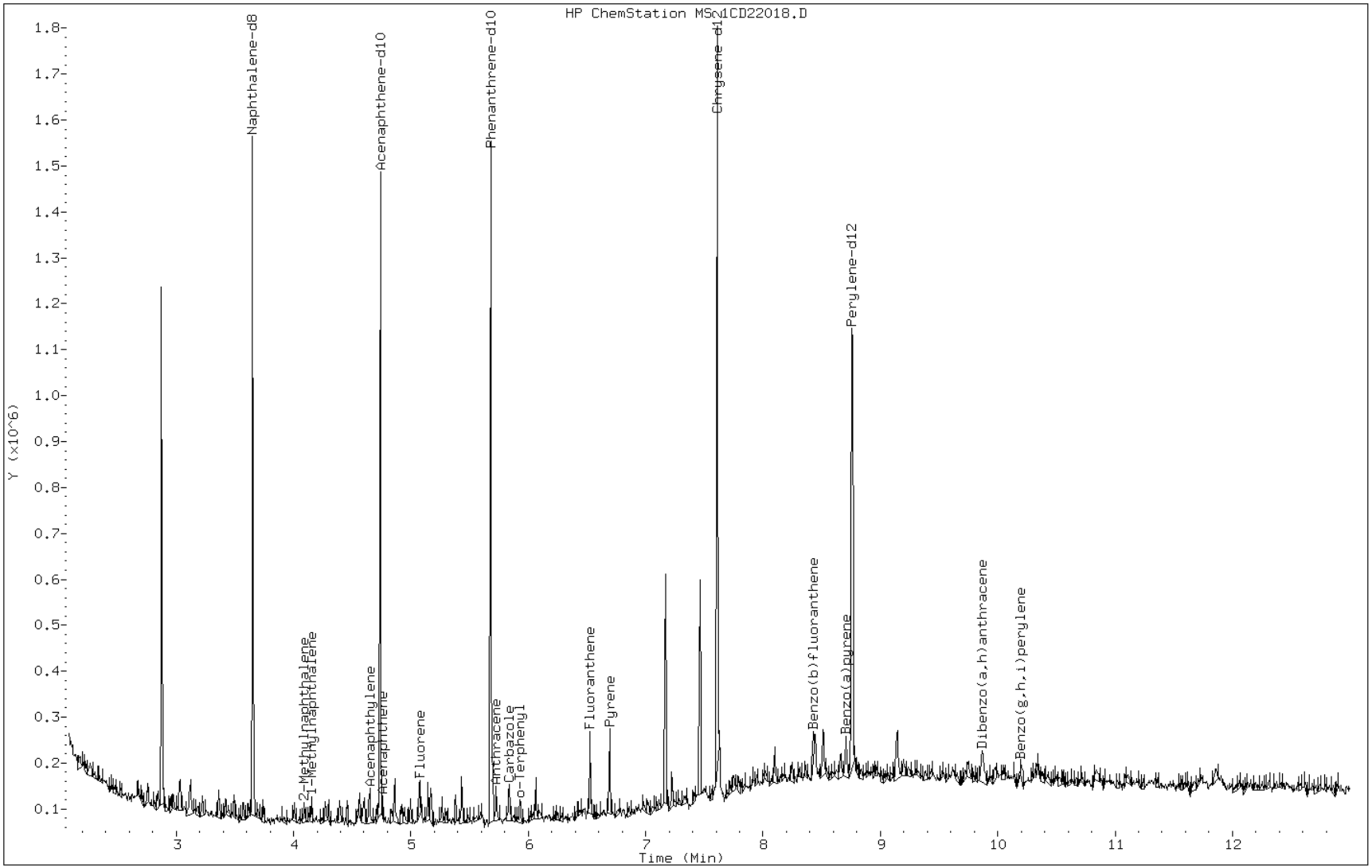
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD22018.D

Date: 22-APR-2013 17:10

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-c msd Operator: SCC



Manual Integration Report

Data File: 1CD22018.D
Inj. Date and Time: 22-APR-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

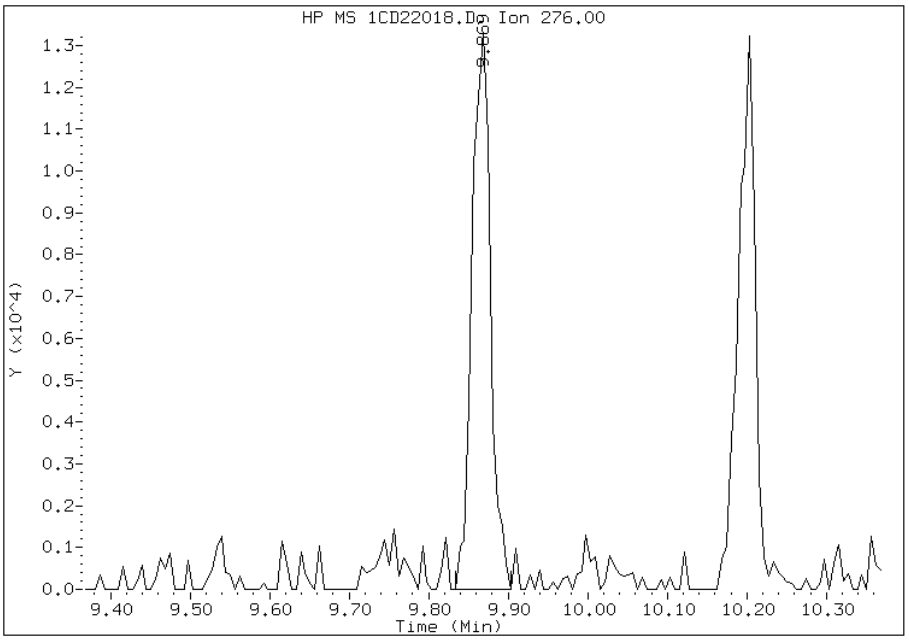
Processing Integration Results

RT: 9.87

Response: 21422

Amount: 3

Conc: 883



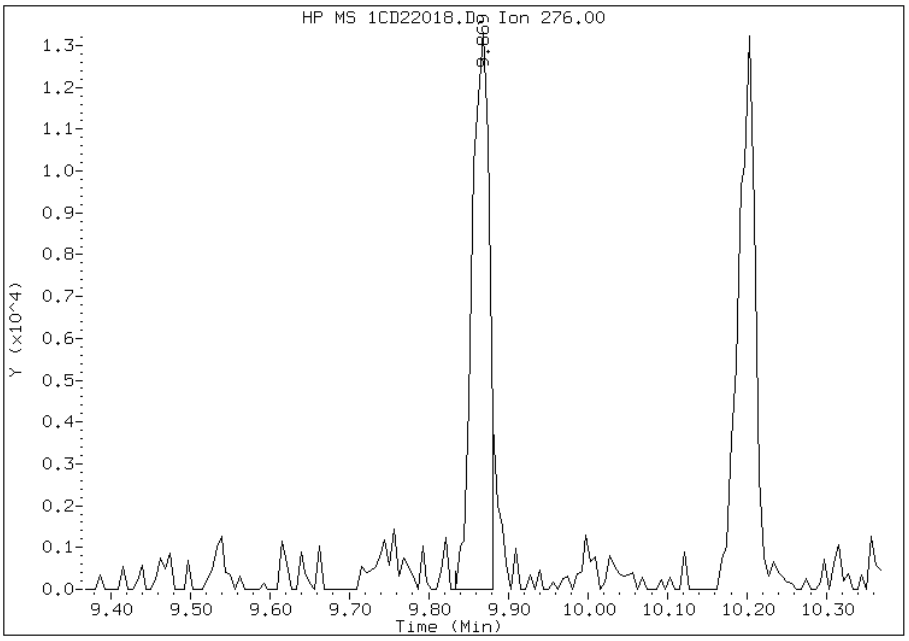
Manual Integration Results

RT: 9.87

Response: 19971

Amount: 3

Conc: 835



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:19
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Start Date: 04/11/2013 11:01

Analysis Batch Number: 136370 End Date: 04/11/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 11:01	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 11:20	1		DB-5MS 250(um)
DFTPP 660-136370/2		04/11/2013 11:38	1	1CD11002.D	DB-5MS 250(um)
ICIS 660-136370/3		04/11/2013 11:56	1	1CD11003.D	DB-5MS 250(um)
IC 660-136370/4		04/11/2013 12:35	1	1CD11004.D	DB-5MS 250(um)
IC 660-136370/5		04/11/2013 12:53	1	1CD11005.D	DB-5MS 250(um)
IC 660-136370/6		04/11/2013 13:11	1	1CD11006.D	DB-5MS 250(um)
IC 660-136370/7		04/11/2013 13:30	1	1CD11007.D	DB-5MS 250(um)
IC 660-136370/8		04/11/2013 13:48	1	1CD11008.D	DB-5MS 250(um)
IC 660-136370/9		04/11/2013 14:06	1	1CD11009.D	DB-5MS 250(um)
ICV 660-136370/10		04/11/2013 14:25	1	1CD11010.D	DB-5MS 250(um)
ZZZZZ		04/11/2013 14:51	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:10	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:05	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:41	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:26	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:44	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:03	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:21	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:39	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:58	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:53	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Start Date: 04/19/2013 10:31

Analysis Batch Number: 136655 End Date: 04/19/2013 21:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/19/2013 10:31	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 10:49	1		DB-5MS 250(um)
DFTPP 660-136655/2		04/19/2013 11:08	1	1CD19002.D	DB-5MS 250(um)
CCVIS 660-136655/3		04/19/2013 11:24	1	1CD19003.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 11:45	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:04	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:22	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:40	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:58	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 13:17	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 13:35	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 13:53	1		DB-5MS 250(um)
MB 660-136551/1-A		04/19/2013 14:23	1	1CD19012.D	DB-5MS 250(um)
LCS 660-136551/2-A		04/19/2013 14:42	1	1CD19013.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 15:08	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 15:26	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 15:44	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 16:02	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 16:21	1		DB-5MS 250(um)
680-89220-A-41-B MS		04/19/2013 16:39	1	1CD19019.D	DB-5MS 250(um)
680-89220-A-41-C MSD		04/19/2013 16:57	1	1CD19020.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 17:16	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 17:34	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 17:52	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 18:10	1		DB-5MS 250(um)
680-89328-1	HP0040A-CS	04/19/2013 18:29	1	1CD19025.D	DB-5MS 250(um)
680-89328-2	HP0040A-CSD	04/19/2013 18:47	1	1CD19026.D	DB-5MS 250(um)
680-89328-3	HP0040B-CS	04/19/2013 19:05	1	1CD19027.D	DB-5MS 250(um)
680-89328-4	HP0083A-CS-SP	04/19/2013 19:23	1	1CD19028.D	DB-5MS 250(um)
680-89328-5	HP0083B-CS-SP	04/19/2013 19:42	1	1CD19029.D	DB-5MS 250(um)
680-89328-6	HP0202A-CS-SP	04/19/2013 20:00	1	1CD19030.D	DB-5MS 250(um)
680-89328-7	HP0202B-CS-SP	04/19/2013 20:18	1	1CD19031.D	DB-5MS 250(um)
680-89328-9	CV0224A-CS	04/19/2013 20:37	1	1CD19032.D	DB-5MS 250(um)
680-89328-10	CV0224B-CS	04/19/2013 20:55	1	1CD19033.D	DB-5MS 250(um)
680-89328-11	CV0401A-CS	04/19/2013 21:13	1	1CD19034.D	DB-5MS 250(um)
680-89328-12	CV0401B-CS	04/19/2013 21:32	1	1CD19035.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 21:50	20		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMC5973 Start Date: 04/22/2013 10:57

Analysis Batch Number: 136698 End Date: 04/22/2013 22:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 10:57	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 11:15	1		DB-5MS 250(um)
DFTPP 660-136698/2		04/22/2013 11:33	1	1CD22002.D	DB-5MS 250(um)
CCVIS 660-136698/3		04/22/2013 11:50	1	1CD22003.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 12:12	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 12:30	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 12:48	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:07	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:26	10		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:05	10		DB-5MS 250(um)
680-89328-12 DL	CV0401B-CS DL	04/22/2013 14:33	4	1CD22010.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 14:51	25		DB-5MS 250(um)
MB 660-136637/1-A		04/22/2013 15:20	1	1CD22012.D	DB-5MS 250(um)
LCS 660-136637/2-A		04/22/2013 15:38	1	1CD22013.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:15	1		DB-5MS 250(um)
680-89328-8	HP0202C-CS-SP	04/22/2013 16:33	4	1CD22016.D	DB-5MS 250(um)
680-89328-8 MS	HP0202C-CS-SP MS	04/22/2013 16:51	4	1CD22017.D	DB-5MS 250(um)
680-89328-8 MSD	HP0202C-CS-SP MSD	04/22/2013 17:10	4	1CD22018.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 17:28	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:05	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:23	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:18	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:36	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:31	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:50	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:08	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:26	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:45	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 22:03	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 22:22	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

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

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

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

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Start Date: 04/22/2013 09:39

Analysis Batch Number: 136733 End Date: 04/22/2013 20:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 09:39	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 10:02	1		DB-5MS 250(um)
DFTPP 660-136733/2		04/22/2013 10:26	1	1DD22002.D	DB-5MS 250(um)
CCVIS 660-136733/3		04/22/2013 10:43	1	1DD22003.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 11:07	1		DB-5MS 250(um)
MB 660-136604/1-A		04/22/2013 11:30	1	1DD22005.D	DB-5MS 250(um)
LCS 660-136604/2-A		04/22/2013 11:53	1	1DD22006.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 12:15	1		DB-5MS 250(um)
680-89275-A-21-B MS		04/22/2013 12:38	1	1DD22008.D	DB-5MS 250(um)
680-89275-A-21-C MSD		04/22/2013 13:00	1	1DD22009.D	DB-5MS 250(um)
680-89328-13	CV0405A-CS	04/22/2013 13:23	1	1DD22010.D	DB-5MS 250(um)
680-89328-14	CV0405B-CS	04/22/2013 13:46	1	1DD22011.D	DB-5MS 250(um)
680-89328-15	CV0993A-CS	04/22/2013 14:08	1	1DD22012.D	DB-5MS 250(um)
680-89328-16	CV0993B-CS	04/22/2013 14:31	1	1DD22013.D	DB-5MS 250(um)
680-89328-17	CV1290A-CS	04/22/2013 14:53	1	1DD22014.D	DB-5MS 250(um)
680-89328-18	CV1117A-CS	04/22/2013 15:16	1	1DD22015.D	DB-5MS 250(um)
680-89328-19	CV1117B-CS	04/22/2013 15:38	1	1DD22016.D	DB-5MS 250(um)
680-89328-20	CV1117C-GS	04/22/2013 16:01	4	1DD22017.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:09	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:31	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:16	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:39	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:09	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: BSMD5973 Start Date: 04/23/2013 11:41

Analysis Batch Number: 136756 End Date: 04/24/2013 00:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/23/2013 11:41	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 12:03	1		DB-5MS 250(um)
DFTPP 660-136756/2		04/23/2013 12:28	1		DB-5MS 250(um)
DFTPP 660-136756/3		04/23/2013 12:50	1	1DD23003.D	DB-5MS 250(um)
CCV 660-136756/4		04/23/2013 13:06	1	1DD23004.D	DB-5MS 250(um)
ZZZZZ		04/23/2013 13:29	1		DB-5MS 250(um)
680-89328-16 DL	CV0993B-CS DL	04/23/2013 14:52	4	1DD23006.D	DB-5MS 250(um)
680-89328-17 DL	CV1290A-CS DL	04/23/2013 15:14	4	1DD23007.D	DB-5MS 250(um)
ZZZZZ		04/23/2013 15:37	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 15:59	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 16:22	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 16:44	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 17:07	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 17:52	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 18:14	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 18:37	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 19:00	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 19:22	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 19:45	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 20:07	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 20:30	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 20:52	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 21:15	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 21:38	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 22:00	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 22:23	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 22:45	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 23:08	1		DB-5MS 250(um)
ZZZZZ		04/23/2013 23:30	4		DB-5MS 250(um)
ZZZZZ		04/23/2013 23:53	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 00:16	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Batch Number: 136551 Batch Start Date: 04/17/13 16:34 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/18/13 15:10

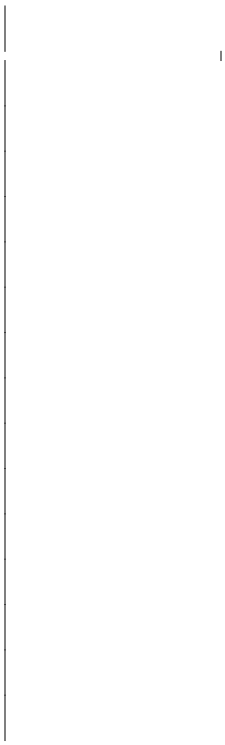
Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136551/1		3546, 8270C LL		15.12 g	1 mL		1 mL
LCS 660-136551/2		3546, 8270C LL		15.08 g	1 mL	1 mL	1 mL
680-89220-A-41 MS		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL
680-89220-A-41 MSD		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL
680-89328-A-1	HP0040A-CS	3546, 8270C LL	T	15.42 g	1 mL		1 mL
680-89328-A-2	HP0040A-CSD	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-89328-A-3	HP0040B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL
680-89328-A-4	HP0083A-CS-SP	3546, 8270C LL	T	15.21 g	1 mL		1 mL
680-89328-A-5	HP0083B-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL
680-89328-A-6	HP0202A-CS-SP	3546, 8270C LL	T	15.24 g	1 mL		1 mL
680-89328-A-7	HP0202B-CS-SP	3546, 8270C LL	T	15.38 g	1 mL		1 mL
680-89328-A-9	CV0224A-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL
680-89328-A-10	CV0224B-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-89328-A-11	CV0401A-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL
680-89328-A-12	CV0401B-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL55
MeCl2/Acetone Lot #	DCM/ACETON 68/69
Microwave Start Time	10:00 4/18/13
Microwave Stop Time	10:35 4/18/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE_OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_179
Water Bath ID	TURBOVAP2 #3/4
Water Bath Temperature	40

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

8270C LL

Cerome, Saurel



GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Batch Number: 136551 Batch Start Date: 04/17/13 16:34 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/18/13 15:10

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Batch Number: 136604 Batch Start Date: 04/18/13 15:43 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/19/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136604/1		3546, 8270C LL		15.38 g	1 mL		1 mL
LCS 660-136604/2		3546, 8270C LL		15.16 g	1 mL	1 mL	1 mL
680-89275-A-21 MS		3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL
680-89275-A-21 MSD		3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL
680-89328-A-13	CV0405A-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL
680-89328-A-14	CV0405B-CS	3546, 8270C LL	T	15.22 g	1 mL		1 mL
680-89328-A-15	CV0993A-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL
680-89328-A-16	CV0993B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL
680-89328-A-17	CV1290A-CS	3546, 8270C LL	T	14.90 g	1 mL		1 mL
680-89328-A-18	CV1117A-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL
680-89328-A-19	CV1117B-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL
680-89328-A-20	CV1117C-GS	3546, 8270C LL	T	15.01 g	1 mL		1 mL

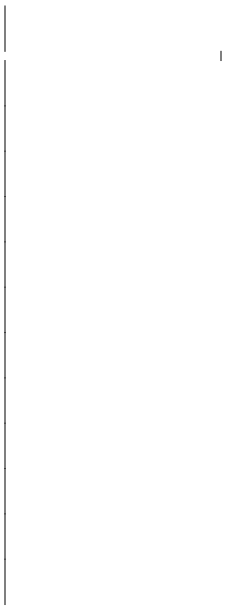
Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 69
Microwave Start Time	17:20 4/18/13
Microwave Stop Time	17:55 4/18/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Cerome, Saurel



GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Batch Number: 136637 Batch Start Date: 04/19/13 11:14 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/19/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136637/1		3546, 8270C LL		15.41 g	1 mL		1 mL
LCS 660-136637/2		3546, 8270C LL		15.15 g	1 mL	1 mL	1 mL
680-89328-A-8	HP0202C-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-89328-A-8 MS	HP0202C-CS-SP	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL
680-89328-A-8 MSD	HP0202C-CS-SP	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 70
Microwave Start Time	13:00 4/19/13
Microwave Stop Time	13:35 4/19/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT_179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Cerome, Saurel

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-1

SDG No.: 68089328-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
HP0040A-CS	680-89328-1
HP0040A-CSD	680-89328-2
HP0040B-CS	680-89328-3
HP0083A-CS-SP	680-89328-4
HP0083B-CS-SP	680-89328-5
HP0202A-CS-SP	680-89328-6
HP0202B-CS-SP	680-89328-7
HP0202C-CS-SP	680-89328-8
CV0224A-CS	680-89328-9
CV0224B-CS	680-89328-10
CV0401A-CS	680-89328-11
CV0401B-CS	680-89328-12
CV0405A-CS	680-89328-13
CV0405B-CS	680-89328-14
CV0993A-CS	680-89328-15
CV0993B-CS	680-89328-16
CV1290A-CS	680-89328-17
CV1117A-CS	680-89328-18
CV1117B-CS	680-89328-19
CV1117C-GS	680-89328-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-1

SDG Number: 68089328-1

Matrix: Solid Instrument ID: Moisture

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

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-1

SDG Number: 68089328-1

Matrix: Solid Instrument ID: Moisture

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

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-1

SDG Number: 68089328-1

Matrix: Solid Instrument ID: NOEQUIP

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

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-1

SDG Number: 68089328-1

Matrix: Solid Instrument ID: NOEQUIP

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

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: Moisture Method: Moisture

Start Date: 04/18/2013 06:32 End Date: 04/18/2013 09:44

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
LCS 660-136569/1	1	T	06:32	X																			
ZZZZZZ			06:43																				
ZZZZZZ			07:04																				
680-89328-4	1	T	07:34	X																			
680-89328-2	1	T	07:58	X																			
680-89328-1	1	T	08:31	X																			
680-89328-3	1	T	08:43	X																			
680-89328-5	1	T	09:08	X																			
680-89328-7	1	T	09:44	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/18/2013 09:02 End Date: 04/18/2013 09:02

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
680-89328-8	1	T	09:02	X																				
680-89328-8 MS	1	T	09:02	X																				
680-89328-8 MSD	1	T	09:02	X																				
ZZZZZZ			09:02																					
680-89328-A-25 MS	1	T	09:02	X																				
680-89328-A-25 MSD	1	T	09:02	X																				
ZZZZZZ			09:02																					
680-89328-14	1	T	09:02	X																				
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
680-89328-13	1	T	09:02	X																				
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
680-89328-18	1	T	09:02	X																				
680-89328-16	1	T	09:02	X																				
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
680-89328-17	1	T	09:02	X																				
680-89328-20	1	T	09:02	X																				
680-89328-10	1	T	09:02	X																				
680-89328-12	1	T	09:02	X																				
680-89328-9	1	T	09:02	X																				
680-89328-11	1	T	09:02	X																				
680-89328-6	1	T	09:02	X																				
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
680-89328-19	1	T	09:02	X																				
680-89328-15	1	T	09:02	X																				
ZZZZZZ			09:02																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Batch Number: 136561 Batch Start Date: 04/18/13 09:02 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-89328-A-8	HP0202C-CS-SP	Moisture	T	1	0 g	4.45 g	3.60 g
680-89328-A-8 MS	HP0202C-CS-SP	Moisture	T	1	0 g	4.45 g	3.60 g
680-89328-A-8 MSD	HP0202C-CS-SP	Moisture	T	1	0 g	4.45 g	3.60 g
680-89328-A-25 MS		Moisture	T	2	0 g	4.56 g	3.52 g
680-89328-A-25 MSD		Moisture	T	2	0 g	4.56 g	3.52 g
680-89328-A-14	CV0405B-CS	Moisture	T	4	0 g	6.27 g	4.87 g
680-89328-A-13	CV0405A-CS	Moisture	T	7	0 g	4.62 g	3.91 g
680-89328-A-18	CV1117A-CS	Moisture	T	11	0 g	4.34 g	3.29 g
680-89328-A-16	CV0993B-CS	Moisture	T	12	0 g	4.32 g	3.67 g
680-89328-A-17	CV1290A-CS	Moisture	T	15	0 g	4.27 g	2.45 g
680-89328-A-20	CV1117C-GS	Moisture	T	16	0 g	4.64 g	3.17 g
680-89328-A-10	CV0224B-CS	Moisture	T	17	0 g	4.67 g	4.00 g
680-89328-A-12	CV0401B-CS	Moisture	T	18	0 g	4.51 g	3.37 g
680-89328-A-9	CV0224A-CS	Moisture	T	19	0 g	4.89 g	3.75 g
680-89328-A-11	CV0401A-CS	Moisture	T	20	0 g	4.42 g	3.55 g
680-89328-A-6	HP0202A-CS-SP	Moisture	T	21	0 g	5.16 g	3.83 g
680-89328-A-19	CV1117B-CS	Moisture	T	24	0 g	4.68 g	3.49 g
680-89328-A-15	CV0993A-CS	Moisture	T	25	0 g	4.40 g	3.74 g

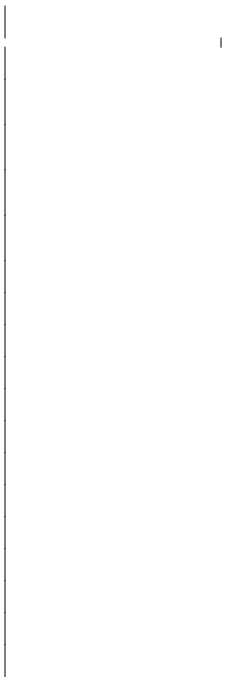
Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.18.13
Date samples were removed from oven	4.19.13

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



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-1

SDG No.: 68089328-1

Batch Number: 136569 Batch Start Date: 04/18/13 06:32 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	
LCS 660-136569/1		Moisture		0 g	10.026 g	9.024 g	
680-89328-A-4	HP0083A-CS-SP	Moisture	T	0 g	4.323 g	2.994 g	
680-89328-A-2	HP0040A-CSD	Moisture	T	0 g	4.646 g	3.7 g	
680-89328-A-1	HP0040A-CS	Moisture	T	0 g	4.196 g	3.539 g	
680-89328-A-3	HP0040B-CS	Moisture	T	0 g	4.24 g	3.682 g	
680-89328-A-5	HP0083B-CS-SP	Moisture	T	0 g	4.413 g	3.327 g	
680-89328-A-7	HP0202B-CS-SP	Moisture	T	0 g	4.52 g	3.641 g	

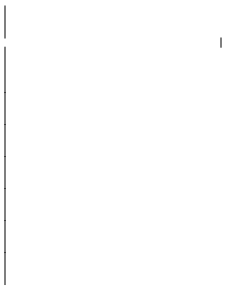
Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

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

Moisture

Galio, Andrew



Shipping and Receiving Documents

Serial Number 59206

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200548-1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 2

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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

REQUIRED ANALYSIS: 21 PAH; PAH SIMS; PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C	AQ	SOL	AIR	NAQ	21 PAH	PAH SIMS	REMARKS
4-11-13	0850	HP0040A-CS	C		X			X		
	0850	HP0040A-CSD	C		X			X		
	0900	HP0040B-CS	C		X			X		
	0953	HP0083A-CS-SP	C		X			X		
	0959	HP0083B-CS-SP	C		X			X		
	1052	HP0202A-CS-SP	C		X			X		
	1107	HP0202B-CS-SP	C		X			X		
	1116	HP0202C-CS-SP	C		X			X	X	
	1325	CV0224A-CS	C		X			X		
	1333	CV0224B-CS	C		X			X	X	
	0840	CV0401A-CS	C		X			X		
	0851	CV0401B-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-12-13	1300						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/13/13	0927	YES ○ NO ○		680-89328	2.4°C

Serial Number 59207

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005198-1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

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

REQUIRED ANALYSIS: 4 PAH | RCRA 8 Metals

PRESERVATIVE

PAGE 2 OF 3

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

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-11-13	0916	CV0405A-CS	C / SOLID	4 PAH	
	0924	CV0405B-CS	C / SOLID	4 PAH	
	0930	CV0993A-CS	C / SOLID	4 PAH, RCRA 8 Metals	
	0940	CV0993B-CS	C / SOLID	4 PAH	
	1030	CV1290A-CS	C / SOLID	4 PAH	
	1450	CV1117A-CS	C / SOLID	4 PAH	
	1500	CV1117B-CS	C / SOLID	4 PAH	
	1510	CV1117C-GS	G / SOLID	4 PAH	
	1310	CV1216A-CS	SOLID	4 PAH	
	1320	CV1216B-CS	SOLID	4 PAH	
	1340	CV1335A-CS	SOLID	4 PAH	
	1350	CV1335B-CS	SOLID	4 PAH	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-12-13	1300						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/13/13	0927	YES ○ NO ○		680-89328	2.4°C

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
SDG Number: 68089328-1

Login Number: 89328
List Source: TestAmerica Savannah
List Number: 1
Creator: Conner, Keaton

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").	True	
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: 680-89328-1
SDG Number: 68089328-1

Login Number: 89328
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/16/13 11:53 AM

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 680-89328-1
TestAmerica Sample Delivery Group: 68089328-1
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
4/24/2013 8:29:33 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

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

Job ID: 680-89328-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89328-1

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

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

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

RECEIPT

The samples were received on 04/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0040A-CS (680-89328-1), HP0040A-CSD (680-89328-2), HP0040B-CS (680-89328-3), HP0083A-CS-SP (680-89328-4), HP0083B-CS-SP (680-89328-5), HP0202A-CS-SP (680-89328-6), HP0202B-CS-SP (680-89328-7), HP0202C-CS-SP (680-89328-8), CV0224A-CS (680-89328-9), CV0224B-CS (680-89328-10), CV0401A-CS (680-89328-11), CV0401B-CS (680-89328-12), CV0405A-CS (680-89328-13), CV0405B-CS (680-89328-14), CV0993A-CS (680-89328-15), CV0993B-CS (680-89328-16), CV1290A-CS (680-89328-17), CV1117A-CS (680-89328-18), CV1117B-CS (680-89328-19) and CV1117C-GS (680-89328-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013, 04/18/2013 and 04/19/2013 and analyzed on 04/19/2013, 04/22/2013 and 04/23/2013.

Samples HP0202C-CS-SP (680-89328-8)[4X], CV0401B-CS (680-89328-12)[4X], CV0993B-CS (680-89328-16)[4X], CV1290A-CS (680-89328-17)[4X] and CV1117C-GS (680-89328-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89220-41 in batch 660-136655.

Fluoranthene recovered outside the recovery criteria for the MSD of sample 680-89275-21 in batch 660-136733.

Several analytes recovered outside the recovery criteria for the MSD of sample HP0202C-CS-SP (680-89328-8) in batch 660-136698. Also, Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

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: 680-89328-1
SDG: 68089328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89328-1	HP0040A-CS	Solid	04/11/13 08:50	04/13/13 09:27
680-89328-2	HP0040A-CSD	Solid	04/11/13 08:50	04/13/13 09:27
680-89328-3	HP0040B-CS	Solid	04/11/13 09:00	04/13/13 09:27
680-89328-4	HP0083A-CS-SP	Solid	04/11/13 09:53	04/13/13 09:27
680-89328-5	HP0083B-CS-SP	Solid	04/11/13 09:59	04/13/13 09:27
680-89328-6	HP0202A-CS-SP	Solid	04/11/13 10:52	04/13/13 09:27
680-89328-7	HP0202B-CS-SP	Solid	04/11/13 11:07	04/13/13 09:27
680-89328-8	HP0202C-CS-SP	Solid	04/11/13 11:16	04/13/13 09:27
680-89328-9	CV0224A-CS	Solid	04/11/13 13:25	04/13/13 09:27
680-89328-10	CV0224B-CS	Solid	04/11/13 13:33	04/13/13 09:27
680-89328-11	CV0401A-CS	Solid	04/11/13 08:40	04/13/13 09:27
680-89328-12	CV0401B-CS	Solid	04/11/13 08:51	04/13/13 09:27
680-89328-13	CV0405A-CS	Solid	04/11/13 09:16	04/13/13 09:27
680-89328-14	CV0405B-CS	Solid	04/11/13 09:24	04/13/13 09:27
680-89328-15	CV0993A-CS	Solid	04/11/13 09:30	04/13/13 09:27
680-89328-16	CV0993B-CS	Solid	04/11/13 09:40	04/13/13 09:27
680-89328-17	CV1290A-CS	Solid	04/11/13 10:30	04/13/13 09:27
680-89328-18	CV1117A-CS	Solid	04/11/13 14:50	04/13/13 09:27
680-89328-19	CV1117B-CS	Solid	04/11/13 15:00	04/13/13 09:27
680-89328-20	CV1117C-GS	Solid	04/11/13 15:10	04/13/13 09:27

Method Summary

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

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

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: HP0040A-CS

Lab Sample ID: 680-89328-1
Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Acenaphthylene	**43**	**J**	46	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Anthracene	**35**		9.7	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[a]anthracene	**150**		9.2	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[a]pyrene	**150**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[b]fluoranthene	**210**		14	7.0	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[g,h,i]perylene	**140**		23	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Benzo[k]fluoranthene	**100**		9.2	4.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Chrysene	**210**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Dibenz(a,h)anthracene	**90**		23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Fluoranthene	**250**		23	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Fluorene	**31**		23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Indeno[1,2,3-cd]pyrene	**160**		23	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
1-Methylnaphthalene	**95**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
2-Methylnaphthalene	**130**		46	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Naphthalene	**100**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Phenanthrene	**220**		9.2	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1
Pyrene	**200**		23	4.3	ug/Kg	☼	04/17/13 16:34	04/19/13 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/17/13 16:34*	*04/19/13 18:29*	*1*

Client Sample ID: HP0040A-CSD

Lab Sample ID: 680-89328-2
Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Acenaphthylene	**36**	**J**	50	6.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Anthracene	**27**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[a]anthracene	**160**		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[a]pyrene	**150**		13	6.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[b]fluoranthene	**210**		15	7.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[g,h,i]perylene	**150**		25	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Benzo[k]fluoranthene	**120**		10	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Chrysene	**200**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Dibenz(a,h)anthracene	**85**		25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Fluoranthene	**250**		25	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Fluorene	**15**	**J**	25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Indeno[1,2,3-cd]pyrene	**160**		25	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
1-Methylnaphthalene	**63**		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
2-Methylnaphthalene	**150**		50	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Naphthalene	**130**		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Phenanthrene	**190**		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1
Pyrene	**240**		25	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 16:34*	*04/19/13 18:47*	*1*

Client Sample ID: HP0040B-CS

Lab Sample ID: 680-89328-3

Date Collected: 04/11/13 09:00
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Acenaphthylene	**26**	**J**	46	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Anthracene	**13**		9.7	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[a]anthracene	**96**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[a]pyrene	**90**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[b]fluoranthene	**160**		14	7.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[g,h,i]perylene	**90**		23	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Benzo[k]fluoranthene	**75**		9.3	4.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Chrysene	**110**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Dibenz(a,h)anthracene	**81**		23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Fluoranthene	**100**		23	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Fluorene	**15**	**J**	23	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Indeno[1,2,3-cd]pyrene	**100**		23	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
1-Methylnaphthalene	**39**	**J**	46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
2-Methylnaphthalene	**76**		46	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Naphthalene	**68**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Phenanthrene	**97**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1
Pyrene	**130**		23	4.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/17/13 16:34*	*04/19/13 19:05*	*1*

Client Sample ID: HP0083A-CS-SP

Lab Sample ID: 680-89328-4

Date Collected: 04/11/13 09:53
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 69.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Acenaphthylene	**36**	**J**	57	7.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Anthracene	**83**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[a]anthracene	**210**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[a]pyrene	**180**		15	7.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[b]fluoranthene	**390**		17	8.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[g,h,i]perylene	**190**		28	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Benzo[k]fluoranthene	**180**		11	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Chrysene	**300**		13	6.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Dibenz(a,h)anthracene	**91**		28	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Fluoranthene	**380**		28	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Fluorene	**30**		28	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Indeno[1,2,3-cd]pyrene	**230**		28	10	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
1-Methylnaphthalene	**150**		57	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
2-Methylnaphthalene	**170**		57	10	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Naphthalene	**170**		57	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Phenanthrene	**340**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1
Pyrene	**320**		28	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/17/13 16:34*	*04/19/13 19:23*	*1*

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: HP0083B-CS-SP

Lab Sample ID: 680-89328-5

Date Collected: 04/11/13 09:59
Date Received: 04/13/13 09:27

Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Acenaphthylene	**7.4**	**J**	53	6.6	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Anthracene	**17**		11	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[a]anthracene	**56**		11	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[a]pyrene	**40**		14	6.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[b]fluoranthene	**100**		16	8.0	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[g,h,i]perylene	**66**		26	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Benzo[k]fluoranthene	**22**		11	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Chrysene	**73**		12	5.9	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Dibenz(a,h)anthracene	26	U	26	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Fluoranthene	**89**		26	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Fluorene	**25**	**J**	26	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Indeno[1,2,3-cd]pyrene	**97**		26	9.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
1-Methylnaphthalene	**29**	**J**	53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
2-Methylnaphthalene	**73**		53	9.3	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Naphthalene	**73**		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Phenanthrene	**120**		11	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1
Pyrene	**64**		26	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/17/13 16:34*	*04/19/13 19:42*	*1*

Client Sample ID: HP0202A-CS-SP

Lab Sample ID: 680-89328-6

Date Collected: 04/11/13 10:52
Date Received: 04/13/13 09:27

Matrix: Solid
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**40**	**J**	130	27	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Acenaphthylene	**29**	**J**	53	6.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Anthracene	**75**		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[a]anthracene	**380**		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[a]pyrene	**350**		14	6.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[b]fluoranthene	**700**		16	8.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[g,h,i]perylene	**270**		27	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Benzo[k]fluoranthene	**190**		11	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Chrysene	**510**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Dibenz(a,h)anthracene	**110**		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Fluoranthene	**830**		27	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Fluorene	**45**		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Indeno[1,2,3-cd]pyrene	**280**		27	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
1-Methylnaphthalene	**180**		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
2-Methylnaphthalene	**260**		53	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Naphthalene	**190**		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Phenanthrene	**610**		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1
Pyrene	**700**		27	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:00*	*1*

Client Sample ID: HP0202B-CS-SP

Lab Sample ID: 680-89328-7

Date Collected: 04/11/13 11:07
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	120	24	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Acenaphthylene	53		48	6.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Anthracene	200		10	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[a]anthracene	670		9.7	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[a]pyrene	500		13	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[b]fluoranthene	900		15	7.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[g,h,i]perylene	400		24	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Benzo[k]fluoranthene	380		9.7	4.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Chrysene	640		11	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Dibenz(a,h)anthracene	150		24	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Fluoranthene	1300		24	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Fluorene	130		24	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Indeno[1,2,3-cd]pyrene	340		24	8.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
1-Methylnaphthalene	49		48	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
2-Methylnaphthalene	110		48	8.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Naphthalene	140		48	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Phenanthrene	1000		9.7	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1
Pyrene	1100		24	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:18*	*1*

Client Sample ID: HP0202C-CS-SP

Lab Sample ID: 680-89328-8

Date Collected: 04/11/13 11:16
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.9

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	☼	04/19/13 11:14	04/22/13 16:33	4
Acenaphthylene	71	J	200	25	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Anthracene	46		42	21	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[a]anthracene	210		40	19	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[a]pyrene	260	F	52	26	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[b]fluoranthene	370		60	30	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[g,h,i]perylene	230		99	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Benzo[k]fluoranthene	110		40	18	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Chrysene	330	F	45	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Dibenz(a,h)anthracene	99	U	99	20	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Fluoranthene	300	F	99	20	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Fluorene	99	U	99	20	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Indeno[1,2,3-cd]pyrene	380		99	35	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
1-Methylnaphthalene	190	J F	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
2-Methylnaphthalene	270	F	200	35	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Phenanthrene	200		40	19	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4
Pyrene	380	F	99	18	ug/Kg	☼	04/19/13 11:14	04/22/13 16:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/19/13 11:14*	*04/22/13 16:33*	*4*

Client Sample ID: CV0224A-CS

Lab Sample ID: 680-89328-9

Date Collected: 04/11/13 13:25
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Acenaphthylene	**18**	**J**	52	6.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Anthracene	**37**		11	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[a]anthracene	**200**		10	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[a]pyrene	**160**		13	6.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[b]fluoranthene	**270**		16	7.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[g,h,i]perylene	**160**		26	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Benzo[k]fluoranthene	**89**		10	4.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Chrysene	**310**		12	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Dibenz(a,h)anthracene	**110**		26	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Fluoranthene	**260**		26	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Fluorene	**40**		26	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Indeno[1,2,3-cd]pyrene	**110**		26	9.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
1-Methylnaphthalene	**230**		52	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
2-Methylnaphthalene	**250**		52	9.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Naphthalene	**170**		52	5.7	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Phenanthrene	**340**		10	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1
Pyrene	**230**		26	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:37*	*1*

Client Sample ID: CV0224B-CS

Lab Sample ID: 680-89328-10

Date Collected: 04/11/13 13:33
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**26**	**J**	120	23	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Acenaphthylene	**23**	**J**	46	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Anthracene	**27**		9.8	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[a]anthracene	**220**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[a]pyrene	**140**		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[b]fluoranthene	**370**		14	7.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[g,h,i]perylene	**200**		23	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Benzo[k]fluoranthene	**78**		9.3	4.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Chrysene	**440**		10	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Dibenz(a,h)anthracene	**120**		23	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Fluoranthene	**250**		23	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Fluorene	**48**		23	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Indeno[1,2,3-cd]pyrene	**110**		23	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
1-Methylnaphthalene	**450**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
2-Methylnaphthalene	**700**		46	8.2	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Naphthalene	**440**		46	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Phenanthrene	**640**		9.3	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1
Pyrene	**300**		23	4.3	ug/Kg	☼	04/17/13 16:34	04/19/13 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/17/13 16:34*	*04/19/13 20:55*	*1*

Client Sample ID: CV0401A-CS

Lab Sample ID: 680-89328-11

Date Collected: 04/11/13 08:40
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	43	J	130	25	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Acenaphthylene	58		50	6.3	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Anthracene	160		11	5.3	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[a]anthracene	780		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[a]pyrene	710		13	6.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[b]fluoranthene	1300		15	7.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[g,h,i]perylene	560		25	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Benzo[k]fluoranthene	430		10	4.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Chrysene	830		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Dibenz(a,h)anthracene	220		25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Fluoranthene	1400		25	5.0	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Fluorene	48		25	5.1	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Indeno[1,2,3-cd]pyrene	450		25	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
1-Methylnaphthalene	87		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
2-Methylnaphthalene	190		50	8.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Naphthalene	120		50	5.5	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Phenanthrene	810		10	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1
Pyrene	1200		25	4.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/17/13 16:34*	*04/19/13 21:13*	*1*

Client Sample ID: CV0401B-CS

Lab Sample ID: 680-89328-12

Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160		130	27	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Acenaphthylene	180		53	6.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Anthracene	490		11	5.6	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Benzo[a]anthracene	3600		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Benzo[k]fluoranthene	3300		11	4.8	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Chrysene	3600		12	6.0	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Dibenz(a,h)anthracene	1400		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Fluorene	160		27	5.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Indeno[1,2,3-cd]pyrene	3900		27	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
1-Methylnaphthalene	240		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
2-Methylnaphthalene	350		53	9.4	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Naphthalene	220		53	5.8	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Phenanthrene	2400		11	5.2	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1
Pyrene	3700		27	4.9	ug/Kg	☼	04/17/13 16:34	04/19/13 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/17/13 16:34*	*04/19/13 21:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	4400		55	28	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4
Benzo[b]fluoranthene	8700		65	32	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4

Client Sample ID: CV0401B-CS

Lab Sample ID: 680-89328-12
Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	5300		110	23	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4
Fluoranthene	4000		110	21	ug/Kg	☼	04/17/13 16:34	04/22/13 14:33	4

Client Sample ID: CV0405A-CS

Lab Sample ID: 680-89328-13
Date Collected: 04/11/13 09:16
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	120	23	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Acenaphthylene	25	J	47	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Anthracene	79		9.8	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[a]anthracene	370		9.3	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[a]pyrene	420		12	6.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[b]fluoranthene	700		14	7.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[g,h,i]perylene	260		23	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Benzo[k]fluoranthene	200		9.3	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Chrysene	420		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Dibenz(a,h)anthracene	87		23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Fluoranthene	630		23	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Fluorene	20	J	23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Indeno[1,2,3-cd]pyrene	230		23	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
1-Methylnaphthalene	37	J	47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
2-Methylnaphthalene	48		47	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Naphthalene	41	J	47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Phenanthrene	290		9.3	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1
Pyrene	410		23	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*04/18/13 15:43*	*04/22/13 13:23*	*1*

Client Sample ID: CV0405B-CS

Lab Sample ID: 680-89328-14
Date Collected: 04/11/13 09:24
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Acenaphthylene	51	U	51	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Anthracene	11	U	11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[a]anthracene	10	U	10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[a]pyrene	13	U	13	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[b]fluoranthene	15	U	15	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[g,h,i]perylene	25	U	25	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Benzo[k]fluoranthene	10	U	10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Chrysene	11	U	11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Dibenz(a,h)anthracene	25	U	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Fluoranthene	25	U	25	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Fluorene	25	U	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Indeno[1,2,3-cd]pyrene	25	U	25	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1

Client Sample ID: CV0405B-CS

Lab Sample ID: 680-89328-14
Date Collected: 04/11/13 09:24
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	51	U	51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
2-Methylnaphthalene	51	U	51	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Naphthalene	51	U	51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Phenanthrene	10	U	10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1
Pyrene	25	U	25	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*04/18/13 15:43*	*04/22/13 13:46*	*1*

Client Sample ID: CV0993A-CS

Lab Sample ID: 680-89328-15
Date Collected: 04/11/13 09:30
Matrix: Solid
Date Received: 04/13/13 09:27
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	120	U	120	23	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Acenaphthylene	**11**	**J**	47	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Anthracene	**32**		9.8	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[a]anthracene	**140**		9.3	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[a]pyrene	**120**		12	6.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[b]fluoranthene	**230**		14	7.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[g,h,i]perylene	**84**		23	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Benzo[k]fluoranthene	**71**		9.3	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Chrysene	**170**		10	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Dibenz(a,h)anthracene	**29**		23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Fluoranthene	**260**		23	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Fluorene	**8.7**	**J**	23	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Indeno[1,2,3-cd]pyrene	**78**		23	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
1-Methylnaphthalene	**45**	**J**	47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
2-Methylnaphthalene	**62**		47	8.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Naphthalene	**61**		47	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Phenanthrene	**150**		9.3	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1
Pyrene	**180**		23	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*04/18/13 15:43*	*04/22/13 14:08*	*1*

Client Sample ID: CV0993B-CS

Lab Sample ID: 680-89328-16
Date Collected: 04/11/13 09:40
Matrix: Solid
Date Received: 04/13/13 09:27
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	**630**		120	24	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Acenaphthylene	**51**		47	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Anthracene	**1300**		9.9	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[a]anthracene	**3200**		9.5	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[a]pyrene	**3000**		12	6.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[g,h,i]perylene	**1400**		24	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Benzo[k]fluoranthene	**1400**		9.5	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1

Client Sample ID: CV0993B-CS

Lab Sample ID: 680-89328-16
Date Collected: 04/11/13 09:40
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	3100		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Dibenz(a,h)anthracene	450		24	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Fluorene	510		24	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Indeno[1,2,3-cd]pyrene	1400		24	8.4	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
1-Methylnaphthalene	130		47	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
2-Methylnaphthalene	170		47	8.4	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1
Naphthalene	310		47	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/18/13 15:43*	*04/22/13 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3900		58	29	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4
Fluoranthene	6900		95	19	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4
Phenanthrene	4800		38	18	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4
Pyrene	5300		95	18	ug/Kg	☼	04/18/13 15:43	04/23/13 14:52	4

Client Sample ID: CV1290A-CS

Lab Sample ID: 680-89328-17
Date Collected: 04/11/13 10:30
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 57.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	94	J	180	35	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Acenaphthylene	36	J	70	8.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Anthracene	260		15	7.4	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[a]anthracene	3300		14	6.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[a]pyrene	4700		18	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[g,h,i]perylene	2700		35	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Benzo[k]fluoranthene	2500		14	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Chrysene	4300		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Dibenz(a,h)anthracene	1100		35	7.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Fluoranthene	4700		35	7.0	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Fluorene	87		35	7.2	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Indeno[1,2,3-cd]pyrene	2400		35	12	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
1-Methylnaphthalene	410		70	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
2-Methylnaphthalene	520		70	12	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Naphthalene	420		70	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Phenanthrene	1700		14	6.8	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1
Pyrene	2800		35	6.5	ug/Kg	☼	04/18/13 15:43	04/22/13 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*04/18/13 15:43*	*04/22/13 14:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	7800		86	43	ug/Kg	☼	04/18/13 15:43	04/23/13 15:14	4

Client Sample ID: CV1117A-CS

Lab Sample ID: 680-89328-18

Date Collected: 04/11/13 14:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Acenaphthylene	**57**		53	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Anthracene	**93**		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[a]anthracene	**170**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[a]pyrene	**210**		14	6.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[b]fluoranthene	**480**		16	8.1	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[g,h,i]perylene	**110**		26	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Benzo[k]fluoranthene	**150**		11	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Chrysene	**240**		12	6.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Dibenz(a,h)anthracene	**40**		26	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Fluoranthene	**260**		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Fluorene	**12**	**J**	26	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Indeno[1,2,3-cd]pyrene	**120**		26	9.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
1-Methylnaphthalene	**37**	**J**	53	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
2-Methylnaphthalene	**48**	**J**	53	9.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Naphthalene	**44**	**J**	53	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Phenanthrene	**110**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1
Pyrene	**190**		26	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/18/13 15:43*	*04/22/13 15:16*	*1*

Client Sample ID: CV1117B-CS

Lab Sample ID: 680-89328-19

Date Collected: 04/11/13 15:00
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.6

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	27	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Acenaphthylene	**47**	**J**	54	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Anthracene	**87**		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[a]anthracene	**210**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[a]pyrene	**200**		14	7.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[b]fluoranthene	**420**		16	8.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[g,h,i]perylene	**110**		27	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Benzo[k]fluoranthene	**110**		11	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Chrysene	**280**		12	6.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Dibenz(a,h)anthracene	**38**		27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Fluoranthene	**400**		27	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Fluorene	**14**	**J**	27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Indeno[1,2,3-cd]pyrene	**110**		27	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
1-Methylnaphthalene	**71**		54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
2-Methylnaphthalene	**90**		54	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Naphthalene	**68**		54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Phenanthrene	**210**		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1
Pyrene	**280**		27	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/18/13 15:43*	*04/22/13 15:38*	*1*

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: CV1117C-GS
Date Collected: 04/11/13 15:10
Date Received: 04/13/13 09:27

Lab Sample ID: 680-89328-20
Matrix: Solid
Percent Solids: 68.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Acenaphthylene	**69**	**J**	230	29	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Anthracene	**73**		49	25	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[a]anthracene	**210**		47	23	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[a]pyrene	**200**		61	30	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[b]fluoranthene	**480**		71	36	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[g,h,i]perylene	**170**		120	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Benzo[k]fluoranthene	**120**		47	21	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Chrysene	**380**		53	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Dibenz(a,h)anthracene	**55**	**J**	120	24	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Fluoranthene	**300**		120	23	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Fluorene	120	U	120	24	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Indeno[1,2,3-cd]pyrene	**130**		120	42	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
1-Methylnaphthalene	**150**	**J**	230	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
2-Methylnaphthalene	**180**	**J**	230	42	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Naphthalene	**110**	**J**	230	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Phenanthrene	**310**		47	23	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4
Pyrene	**220**		120	22	ug/Kg	☼	04/18/13 15:43	04/22/13 16:01	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/18/13 15:43*	*04/22/13 16:01*	*4*

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

Lab Sample ID: MB 660-136551/1-A
Matrix: Solid
Analysis Batch: 136655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Fluorene	20	U	20	4.1	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Naphthalene	40	U	40	4.4	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Pyrene	20	U	20	3.7	ug/Kg		04/17/13 16:34	04/19/13 14:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/17/13 16:34*	*04/19/13 14:23*	*1*

Lab Sample ID: LCS 660-136551/2-A
Matrix: Solid
Analysis Batch: 136655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	663	524		ug/Kg		79	39 - 130
Acenaphthylene	663	490		ug/Kg		74	38 - 130
Anthracene	663	540		ug/Kg		81	37 - 130
Benzo[a]anthracene	663	569		ug/Kg		86	40 - 130
Benzo[a]pyrene	663	435		ug/Kg		66	49 - 130
Benzo[b]fluoranthene	663	519		ug/Kg		78	37 - 130
Benzo[g,h,i]perylene	663	483		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	663	563		ug/Kg		85	32 - 130
Chrysene	663	567		ug/Kg		86	41 - 130
Dibenz(a,h)anthracene	663	544		ug/Kg		82	27 - 130
Fluoranthene	663	525		ug/Kg		79	40 - 130
Fluorene	663	494		ug/Kg		74	40 - 130
Indeno[1,2,3-cd]pyrene	663	536		ug/Kg		81	30 - 130
1-Methylnaphthalene	663	461		ug/Kg		70	31 - 130
2-Methylnaphthalene	663	473		ug/Kg		71	33 - 130
Naphthalene	663	495		ug/Kg		75	36 - 130
Phenanthrene	663	505		ug/Kg		76	42 - 130
Pyrene	663	495		ug/Kg		75	44 - 130

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

Lab Sample ID: LCS 660-136551/2-A
Matrix: Solid
Analysis Batch: 136655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136551

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	74		30 - 130

Lab Sample ID: MB 660-136604/1-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Fluorene	20	U	20	4.0	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Indeno[1,2,3-cd]pyrene	20	U	20	6.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Naphthalene	39	U	39	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Pyrene	20	U	20	3.6	ug/Kg		04/18/13 15:43	04/22/13 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	63		30 - 130	04/18/13 15:43	04/22/13 11:30	1

Lab Sample ID: LCS 660-136604/2-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	450		ug/Kg		68	39 - 130
Acenaphthylene	660	469		ug/Kg		71	38 - 130
Anthracene	660	453		ug/Kg		69	37 - 130
Benzo[a]anthracene	660	476		ug/Kg		72	40 - 130
Benzo[a]pyrene	660	427		ug/Kg		65	49 - 130
Benzo[b]fluoranthene	660	482		ug/Kg		73	37 - 130
Benzo[g,h,i]perylene	660	480		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	660	482		ug/Kg		73	32 - 130
Chrysene	660	459		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	660	501		ug/Kg		76	27 - 130
Fluoranthene	660	479		ug/Kg		73	40 - 130
Fluorene	660	481		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	660	481		ug/Kg		73	30 - 130
1-Methylnaphthalene	660	467		ug/Kg		71	31 - 130

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

Lab Sample ID: LCS 660-136604/2-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	660	455		ug/Kg		69	33 - 130
Naphthalene	660	440		ug/Kg		67	36 - 130
Phenanthrene	660	444		ug/Kg		67	42 - 130
Pyrene	660	448		ug/Kg		68	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*69*		*30 - 130*

Lab Sample ID: MB 660-136637/1-A
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Fluoranthene	19	U	19	3.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Fluorene	19	U	19	4.0	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Naphthalene	39	U	39	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Pyrene	19	U	19	3.6	ug/Kg		04/19/13 11:14	04/22/13 15:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/19/13 11:14*	*04/22/13 15:20*	*1*

Lab Sample ID: LCS 660-136637/2-A
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	537		ug/Kg		81	39 - 130
Acenaphthylene	660	492		ug/Kg		74	38 - 130
Anthracene	660	528		ug/Kg		80	37 - 130
Benzo[a]anthracene	660	579		ug/Kg		88	40 - 130
Benzo[a]pyrene	660	446		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	660	556		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	660	468		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	660	589		ug/Kg		89	32 - 130

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

Lab Sample ID: LCS 660-136637/2-A
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	660	465		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	660	553		ug/Kg		84	27 - 130
Fluoranthene	660	538		ug/Kg		81	40 - 130
Fluorene	660	534		ug/Kg		81	40 - 130
Indeno[1,2,3-cd]pyrene	660	400		ug/Kg		61	30 - 130
1-Methylnaphthalene	660	423		ug/Kg		64	31 - 130
2-Methylnaphthalene	660	435		ug/Kg		66	33 - 130
Naphthalene	660	472		ug/Kg		71	36 - 130
Phenanthrene	660	534		ug/Kg		81	42 - 130
Pyrene	660	479		ug/Kg		73	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*30 - 130*

Lab Sample ID: 680-89328-8 MS
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: HP0202C-CS-SP
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	500	U	826	654		ug/Kg	☼	79	39 - 130
Acenaphthylene	71	J	826	680		ug/Kg	☼	74	38 - 130
Anthracene	46		826	501		ug/Kg	☼	55	37 - 130
Benzo[a]anthracene	210		826	927		ug/Kg	☼	87	40 - 130
Benzo[a]pyrene	260	F	826	690		ug/Kg	☼	52	49 - 130
Benzo[b]fluoranthene	370		826	964		ug/Kg	☼	72	37 - 130
Benzo[g,h,i]perylene	230		826	816		ug/Kg	☼	71	32 - 130
Benzo[k]fluoranthene	110		826	744		ug/Kg	☼	77	32 - 130
Chrysene	330	F	826	777		ug/Kg	☼	54	41 - 130
Dibenz(a,h)anthracene	99	U	826	596		ug/Kg	☼	72	27 - 130
Fluoranthene	300	F	826	980		ug/Kg	☼	82	40 - 130
Fluorene	99	U	826	528		ug/Kg	☼	64	40 - 130
Indeno[1,2,3-cd]pyrene	380		826	810		ug/Kg	☼	52	30 - 130
1-Methylnaphthalene	190	J F	826	556		ug/Kg	☼	45	31 - 130
2-Methylnaphthalene	270	F	826	682		ug/Kg	☼	50	33 - 130
Naphthalene	130	J	826	483		ug/Kg	☼	43	36 - 130
Phenanthrene	200		826	833		ug/Kg	☼	76	42 - 130
Pyrene	380	F	826	890		ug/Kg	☼	62	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*80*		*30 - 130*

Lab Sample ID: 680-89328-8 MSD
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: HP0202C-CS-SP
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	500	U	826	551		ug/Kg	☼	67	39 - 130	17	40
Acenaphthylene	71	J	826	580		ug/Kg	☼	62	38 - 130	16	40

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

Lab Sample ID: 680-89328-8 MSD
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: HP0202C-CS-SP
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	46		826	661		ug/Kg	☼	74	37 - 130	27	40
Benzo[a]anthracene	210		826	1190		ug/Kg	☼	119	40 - 130	25	40
Benzo[a]pyrene	260	F	826	1060	F	ug/Kg	☼	97	49 - 130	42	40
Benzo[b]fluoranthene	370		826	1300		ug/Kg	☼	112	37 - 130	30	40
Benzo[g,h,i]perylene	230		826	868		ug/Kg	☼	77	32 - 130	6	40
Benzo[k]fluoranthene	110		826	840		ug/Kg	☼	89	32 - 130	12	40
Chrysene	330	F	826	1240	F	ug/Kg	☼	110	41 - 130	46	40
Dibenz(a,h)anthracene	99	U	826	611		ug/Kg	☼	74	27 - 130	2	40
Fluoranthene	300	F	826	1860	F	ug/Kg	☼	188	40 - 130	62	40
Fluorene	99	U	826	601		ug/Kg	☼	73	40 - 130	13	40
Indeno[1,2,3-cd]pyrene	380		826	1030		ug/Kg	☼	79	30 - 130	24	40
1-Methylnaphthalene	190	J F	826	439	F	ug/Kg	☼	30	31 - 130	23	40
2-Methylnaphthalene	270	F	826	528	F	ug/Kg	☼	32	33 - 130	25	40
Naphthalene	130	J	826	476		ug/Kg	☼	42	36 - 130	1	40
Phenanthrene	200		826	1250		ug/Kg	☼	127	42 - 130	40	40
Pyrene	380	F	826	1680	F	ug/Kg	☼	158	44 - 130	62	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*81*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-1	HP0040A-CS	Total/NA	Solid	3546	
680-89328-2	HP0040A-CSD	Total/NA	Solid	3546	
680-89328-3	HP0040B-CS	Total/NA	Solid	3546	
680-89328-4	HP0083A-CS-SP	Total/NA	Solid	3546	
680-89328-5	HP0083B-CS-SP	Total/NA	Solid	3546	
680-89328-6	HP0202A-CS-SP	Total/NA	Solid	3546	
680-89328-7	HP0202B-CS-SP	Total/NA	Solid	3546	
680-89328-9	CV0224A-CS	Total/NA	Solid	3546	
680-89328-10	CV0224B-CS	Total/NA	Solid	3546	
680-89328-11	CV0401A-CS	Total/NA	Solid	3546	
680-89328-12	CV0401B-CS	Total/NA	Solid	3546	
680-89328-12 - DL	CV0401B-CS	Total/NA	Solid	3546	
LCS 660-136551/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136551/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-13	CV0405A-CS	Total/NA	Solid	3546	
680-89328-14	CV0405B-CS	Total/NA	Solid	3546	
680-89328-15	CV0993A-CS	Total/NA	Solid	3546	
680-89328-16	CV0993B-CS	Total/NA	Solid	3546	
680-89328-16 - DL	CV0993B-CS	Total/NA	Solid	3546	
680-89328-17	CV1290A-CS	Total/NA	Solid	3546	
680-89328-17 - DL	CV1290A-CS	Total/NA	Solid	3546	
680-89328-18	CV1117A-CS	Total/NA	Solid	3546	
680-89328-19	CV1117B-CS	Total/NA	Solid	3546	
680-89328-20	CV1117C-GS	Total/NA	Solid	3546	
LCS 660-136604/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136604/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-8	HP0202C-CS-SP	Total/NA	Solid	3546	
680-89328-8 MS	HP0202C-CS-SP	Total/NA	Solid	3546	
680-89328-8 MSD	HP0202C-CS-SP	Total/NA	Solid	3546	
LCS 660-136637/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136637/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-1	HP0040A-CS	Total/NA	Solid	8270C LL	136551
680-89328-2	HP0040A-CSD	Total/NA	Solid	8270C LL	136551
680-89328-3	HP0040B-CS	Total/NA	Solid	8270C LL	136551
680-89328-4	HP0083A-CS-SP	Total/NA	Solid	8270C LL	136551
680-89328-5	HP0083B-CS-SP	Total/NA	Solid	8270C LL	136551
680-89328-6	HP0202A-CS-SP	Total/NA	Solid	8270C LL	136551
680-89328-7	HP0202B-CS-SP	Total/NA	Solid	8270C LL	136551
680-89328-9	CV0224A-CS	Total/NA	Solid	8270C LL	136551
680-89328-10	CV0224B-CS	Total/NA	Solid	8270C LL	136551
680-89328-11	CV0401A-CS	Total/NA	Solid	8270C LL	136551
680-89328-12	CV0401B-CS	Total/NA	Solid	8270C LL	136551

GC/MS Semi VOA (Continued)

Analysis Batch: 136655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-136551/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136551
MB 660-136551/1-A	Method Blank	Total/NA	Solid	8270C LL	136551

Analysis Batch: 136698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-8	HP0202C-CS-SP	Total/NA	Solid	8270C LL	136637
680-89328-8 MS	HP0202C-CS-SP	Total/NA	Solid	8270C LL	136637
680-89328-8 MSD	HP0202C-CS-SP	Total/NA	Solid	8270C LL	136637
680-89328-12 - DL	CV0401B-CS	Total/NA	Solid	8270C LL	136551
LCS 660-136637/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136637
MB 660-136637/1-A	Method Blank	Total/NA	Solid	8270C LL	136637

Analysis Batch: 136733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-13	CV0405A-CS	Total/NA	Solid	8270C LL	136604
680-89328-14	CV0405B-CS	Total/NA	Solid	8270C LL	136604
680-89328-15	CV0993A-CS	Total/NA	Solid	8270C LL	136604
680-89328-16	CV0993B-CS	Total/NA	Solid	8270C LL	136604
680-89328-17	CV1290A-CS	Total/NA	Solid	8270C LL	136604
680-89328-18	CV1117A-CS	Total/NA	Solid	8270C LL	136604
680-89328-19	CV1117B-CS	Total/NA	Solid	8270C LL	136604
680-89328-20	CV1117C-GS	Total/NA	Solid	8270C LL	136604
LCS 660-136604/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136604
MB 660-136604/1-A	Method Blank	Total/NA	Solid	8270C LL	136604

Analysis Batch: 136756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-16 - DL	CV0993B-CS	Total/NA	Solid	8270C LL	136604
680-89328-17 - DL	CV1290A-CS	Total/NA	Solid	8270C LL	136604

General Chemistry

Analysis Batch: 136561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-6	HP0202A-CS-SP	Total/NA	Solid	Moisture	
680-89328-8	HP0202C-CS-SP	Total/NA	Solid	Moisture	
680-89328-8 MS	HP0202C-CS-SP	Total/NA	Solid	Moisture	
680-89328-8 MSD	HP0202C-CS-SP	Total/NA	Solid	Moisture	
680-89328-9	CV0224A-CS	Total/NA	Solid	Moisture	
680-89328-10	CV0224B-CS	Total/NA	Solid	Moisture	
680-89328-11	CV0401A-CS	Total/NA	Solid	Moisture	
680-89328-12	CV0401B-CS	Total/NA	Solid	Moisture	
680-89328-13	CV0405A-CS	Total/NA	Solid	Moisture	
680-89328-14	CV0405B-CS	Total/NA	Solid	Moisture	
680-89328-15	CV0993A-CS	Total/NA	Solid	Moisture	
680-89328-16	CV0993B-CS	Total/NA	Solid	Moisture	
680-89328-17	CV1290A-CS	Total/NA	Solid	Moisture	
680-89328-18	CV1117A-CS	Total/NA	Solid	Moisture	
680-89328-19	CV1117B-CS	Total/NA	Solid	Moisture	
680-89328-20	CV1117C-GS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 136569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-1	HP0040A-CS	Total/NA	Solid	Moisture	
680-89328-2	HP0040A-CSD	Total/NA	Solid	Moisture	
680-89328-3	HP0040B-CS	Total/NA	Solid	Moisture	
680-89328-4	HP0083A-CS-SP	Total/NA	Solid	Moisture	
680-89328-5	HP0083B-CS-SP	Total/NA	Solid	Moisture	
680-89328-7	HP0202B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-136569/1	Lab Control Sample	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: HP0040A-CS

Lab Sample ID: 680-89328-1
Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 18:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 08:31	AG	TAL TAM

Client Sample ID: HP0040A-CSD

Lab Sample ID: 680-89328-2
Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 18:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 07:58	AG	TAL TAM

Client Sample ID: HP0040B-CS

Lab Sample ID: 680-89328-3
Date Collected: 04/11/13 09:00
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 19:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 08:43	AG	TAL TAM

Client Sample ID: HP0083A-CS-SP

Lab Sample ID: 680-89328-4
Date Collected: 04/11/13 09:53
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 69.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 19:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 07:34	AG	TAL TAM

Client Sample ID: HP0083B-CS-SP

Lab Sample ID: 680-89328-5
Date Collected: 04/11/13 09:59
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 19:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 09:08	AG	TAL TAM

Client Sample ID: HP0202A-CS-SP

Lab Sample ID: 680-89328-6

Date Collected: 04/11/13 10:52
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 20:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: HP0202B-CS-SP

Lab Sample ID: 680-89328-7

Date Collected: 04/11/13 11:07
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 20:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 09:44	AG	TAL TAM

Client Sample ID: HP0202C-CS-SP

Lab Sample ID: 680-89328-8

Date Collected: 04/11/13 11:16
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136698	04/22/13 16:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0224A-CS

Lab Sample ID: 680-89328-9

Date Collected: 04/11/13 13:25
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 20:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0224B-CS

Lab Sample ID: 680-89328-10

Date Collected: 04/11/13 13:33
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 20:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0401A-CS

Lab Sample ID: 680-89328-11
Date Collected: 04/11/13 08:40
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 21:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0401B-CS

Lab Sample ID: 680-89328-12
Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136655	04/19/13 21:32	SCC	TAL TAM
Total/NA	Prep	3546	DL		136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136698	04/22/13 14:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0405A-CS

Lab Sample ID: 680-89328-13
Date Collected: 04/11/13 09:16
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 13:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0405B-CS

Lab Sample ID: 680-89328-14
Date Collected: 04/11/13 09:24
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 13:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0993A-CS

Lab Sample ID: 680-89328-15
Date Collected: 04/11/13 09:30
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 14:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0993B-CS

Lab Sample ID: 680-89328-16

Date Collected: 04/11/13 09:40
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 14:31	SCC	TAL TAM
Total/NA	Prep	3546	DL		136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136756	04/23/13 14:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1290A-CS

Lab Sample ID: 680-89328-17

Date Collected: 04/11/13 10:30
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 14:53	SCC	TAL TAM
Total/NA	Prep	3546	DL		136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136756	04/23/13 15:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1117A-CS

Lab Sample ID: 680-89328-18

Date Collected: 04/11/13 14:50
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 15:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1117B-CS

Lab Sample ID: 680-89328-19

Date Collected: 04/11/13 15:00
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 15:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1117C-GS

Lab Sample ID: 680-89328-20

Date Collected: 04/11/13 15:10
Matrix: Solid
Date Received: 04/13/13 09:27
Percent Solids: 68.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136733	04/22/13 16:01	SCC	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Client Sample ID: CV1117C-GS
Date Collected: 04/11/13 15:10
Date Received: 04/13/13 09:27

Lab Sample ID: 680-89328-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Laboratory References:

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

Serial Number 59206

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200548-1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 2

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: 22 PAH	REQUIRED ANALYSIS: PAH SIMS	REMARKS
		PRESERVATIVE								
4-11-13	0850	HP0040A-CS	C		X			X		
	0850	HP0040A-CSD	C		X			X		
	0900	HP0040B-CS	C		X			X		
	0953	HP0083A-CS-SP	C		X			X		
	0959	HP0083B-CS-SP	C		X			X		
	1052	HP0202A-CS-SP	C		X			X		
	1107	HP0202B-CS-SP	C		X			X		
	1116	HP0202C-CS-SP	C		X			X	X	
	1325	CV0224A-CS	C		X			X		
	1333	CV0224B-CS	C		X			X	X	
	0840	CV0401A-CS	C		X			X		
	0851	CV0401B-CS	C		X			X		

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-12-13	1300						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/13/13	0927	YES ○ NO ○		680-89328	2.4°C

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4/24/2013

TAL8240-680 (1008)

Serial Number 59207 .

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005498-1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 3

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 4 PAH; RCRA 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-11-13	0916	CV0405A-CS	C		X			X			
	0924	CV0405B-CS	C		X			X			
	0930	CV0993A-CS	C		X			X	X		
	0940	CV0993B-CS	C		X			X			
	1030	CV1290A-CS	C		X			X			
	1450	CV1117A-CS	C		X			X			
	1500	CV1117B-CS	C		X			X			
	1510	CV1117C-GS	G		X			X			
	1310	CV1216A-CS			X			X			
	1320	CV1216B-CS			X			X			
	1340	CV1335A-CS			X			X			
	1350	CV1335B-CS			X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-12-13	1300						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/8/13	0927	YES ○ NO ○		680-89328	2.4°C

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4/22/2013

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-1
SDG Number: 68089328-1

Login Number: 89328
List Number: 1
Creator: Conner, Keaton

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").	True	
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: 680-89328-1
SDG Number: 68089328-1

Login Number: 89328
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/16/13 11:53 AM

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

Certification Summary

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Laboratory: TestAmerica Savannah

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

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

Laboratory: TestAmerica Tampa

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

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

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

Certification Summary

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

TestAmerica Job ID: 680-89328-1
SDG: 68089328-1

Laboratory: TestAmerica Tampa (Continued)

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

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