REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-90723-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	05/23/2013
Reviewer:	Jenine Abbassi, URS Group, Inc.	Date:	06/24/2013
Concurrence[2]:	Martha Meyers-Lee, URS Group, Inc.	Date:	06/24/2013

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

[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
				once per week per the client. A rinsate blank, 680-90622-15 (052113-RB-Shovel) was collected during the week of 5/20/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-90622-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)		✓		Phenanthrene blank contamination action level (BCAL)[3] is 34.6 µg/Kg (6.92 µg/Kg x 5). Sample-specific BCALs were developed by multiplying the BCAL by sample dilution factors and dividing by percent solids. Detected sample results were significantly greater than that observed in the method blank; therefore, qualification of the data due to the presence of blank contamination is not required.	
14. Is a field duplicate associated with this Job?	✓			• CV0978A-CSD (680-90723-10) is a field duplicate of CV0978A-CS (680-90723-9). • CV0978B-CSD (680-90723-12) is a field duplicate of CV0978B-CS (680-90723-11).	
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: 05/22/2013 • ICV: 05/22/13 @ 18:24 • CCV: 06/04/13 @ 10:50 • Instrument ID: BSMD5973 • Initial Calibration: 05/23/2013 • ICV: 05/23/13 @ 15:41 • CCV: 06/03/13 @ 10:59	
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	✓				

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
$r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): ○ 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 ○ 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 $\geq$0.050 ($\geq$0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 137975: 680-90723-1 (CV1075A-CS), MS/MSD • Prep Batch 137991: 680-90723-24 (Batch sample), MS/MSD. Lab sample 680-90723-24 is a project-specific sample (CV1015A-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90723-2.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results.	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-90723-1
SDG: 68090723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90723-1	CV1075A-CS	Solid	05/23/13 10:05	05/25/13 09:45
680-90723-2	CV1113A-CS	Solid	05/23/13 09:30	05/25/13 09:45
680-90723-3	CV1113B-CS	Solid	05/23/13 09:45	05/25/13 09:45
680-90723-4	CV1163A-CS	Solid	05/23/13 10:34	05/25/13 09:45
680-90723-5	CV1163B-CS	Solid	05/23/13 10:42	05/25/13 09:45
680-90723-6	CV1347A-CS	Solid	05/23/13 08:40	05/25/13 09:45
680-90723-7	CV1347B-CS	Solid	05/23/13 08:46	05/25/13 09:45
680-90723-8	CV1347C-CS	Solid	05/23/13 08:50	05/25/13 09:45
680-90723-9	CV0978A-CS	Solid	05/23/13 09:45	05/25/13 09:45
680-90723-10	CV0978A-CSD	Solid	05/23/13 09:45	05/25/13 09:45
680-90723-11	CV0978B-CS	Solid	05/23/13 10:00	05/25/13 09:45
680-90723-12	CV0978B-CSD	Solid	05/23/13 10:00	05/25/13 09:45
680-90723-13	CV0978C-CS	Solid	05/23/13 10:15	05/25/13 09:45
680-90723-14	CV0978D-CS	Solid	05/23/13 10:30	05/25/13 09:45
680-90723-15	CV0978E-CS	Solid	05/23/13 10:45	05/25/13 09:45
680-90723-16	CV0978F-CS	Solid	05/23/13 11:00	05/25/13 09:45
680-90723-17	CV0978G-CS	Solid	05/23/13 11:15	05/25/13 09:45
680-90723-18	CV0978H-CS	Solid	05/23/13 11:30	05/25/13 09:45
680-90723-19	CV1008A-CS	Solid	05/23/13 14:43	05/25/13 09:45
680-90723-20	CV1008B-CS	Solid	05/23/13 15:00	05/25/13 09:45

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV0978A-CS 680-90723-9		RL	CV0978-CSD 680-90723-10		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	110	J	200	100	J	200	µg/kg	1000	NA	10	400	None, absolute difference ≤ 2x Avg RL
Anthracene	140		42	130		41	µg/kg	207.5	NA	10	83	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	770		40	670		39	µg/kg	197.5	14	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	810		52	730		51	µg/kg	257.5	10	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1500		61	1300		60	µg/kg	302.5	14	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	690		100	750		99	µg/kg	497.5	8	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	430		40	620		39	µg/kg	197.5	**36**	NA	NA	None, RPD ≤ 50%
Chrysene	1000		45	960		44	µg/kg	222.5	4	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	220		100	230		99	µg/kg	497.5	NA	10	199	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1300		100	1400		99	µg/kg	497.5	7	NA	NA	None, RPD ≤ 50%
Fluorene	44	J	100	49	J	99	µg/kg	497.5	NA	5	199	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	470		100	590		99	µg/kg	497.5	NA	120	199	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	220		200	200		200	µg/kg	1000	NA	20	400	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	270		200	240		200	µg/kg	1000	NA	30	400	None, absolute difference ≤ 2x Avg RL
Naphthalene	200		200	180	J	200	µg/kg	1000	NA	20	400	None, absolute difference ≤ 2x Avg RL
Phenanthrene	630		40	860		39	µg/kg	197.5	**31**	NA	NA	None, RPD ≤ 50%
Pyrene	1400		100	1300		99	µg/kg	497.5	7	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

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

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV0978B-CS 680-90723-11		RL	CV0978B-CSD 680-90723-12		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	67	J	200	83	J	200	µg/kg	1000	NA	16	400	None, absolute difference ≤ 2x Avg RL
Anthracene	190		42	140		43	µg/kg	212.5	NA	50	85	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	1100		40	1100		41	µg/kg	202.5	0	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	1000		52	1100		53	µg/kg	262.5	10	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1900		61	2000		62	µg/kg	307.5	5	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	820		100	810		100	µg/kg	500	1	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	610		40	670		41	µg/kg	202.5	9	NA	NA	None, RPD ≤ 50%
Chrysene	1300		45	1400		46	µg/kg	227.5	7	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	240		100	250		100	µg/kg	500	NA	10	200	None, absolute difference ≤ 2x Avg RL
Fluoranthene	2400		100	2200		100	µg/kg	500	9	NA	NA	None, RPD ≤ 50%
Fluorene	52	J	100	48	J	100	µg/kg	500	NA	4	200	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	630		100	670		100	µg/kg	500	6	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	82	J	200	110	J	200	µg/kg	1000	NA	28	400	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	130	J	200	150	J	200	µg/kg	1000	NA	20	400	None, absolute difference ≤ 2x Avg RL
Naphthalene	77	J	200	130	J	200	µg/kg	1000	NA	53	400	None, absolute difference ≤ 2x Avg RL
Phenanthrene	900		40	930		41	µg/kg	202.5	3	NA	NA	None, RPD ≤ 50%
Pyrene	2100		100	1900		100	µg/kg	500	10	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

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: 680-90723-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90723-1

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

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

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

RECEIPT

The samples were received on 05/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1075A-CS (680-90723-1), CV1113A-CS (680-90723-2), CV1113B-CS (680-90723-3), CV1163A-CS (680-90723-4), CV1163B-CS (680-90723-5), CV1347A-CS (680-90723-6), CV1347B-CS (680-90723-7), CV1347C-CS (680-90723-8), CV0978A-CS (680-90723-9), CV0978A-CSD (680-90723-10), CV0978B-CS (680-90723-11), CV0978B-CSD (680-90723-12), CV0978C-CS (680-90723-13), CV0978D-CS (680-90723-14), CV0978E-CS (680-90723-15), CV0978F-CS (680-90723-16), CV0978G-CS (680-90723 17), CV0978H CS (680 90723 18), CV1008A CS (680 90723 19) and CV1008B CS (680 90723 20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and analyzed on 06/03/2013 and 06/04/2013.

Samples CV1075A-CS (680-90723-1)[4X], CV1113A-CS (680-90723-2)[4X], CV1163B-CS (680-90723-5)[4X], CV1347B-CS (680-90723-7)[4X], CV1347C-CS (680-90723-8)[4X], CV0978A-CS (680-90723-9)[4X], CV0978A-CSD (680-90723-10)[4X], CV0978B-CS (680-90723-11)[4X], CV0978B-CSD (680-90723-12)[4X], CV0978C-CS (680-90723-13)[4X], CV0978D-CS (680-90723-14)[4X], CV0978E-CS (680-90723-15)[4X], CV0978F-CS (680-90723-16)[4X], CV0978G-CS (680-90723-17)[4X], CV0978H-CS (680-90723-18)[4X], CV1008A-CS (680-90723-19)[4X] and CV1008B-CS (680-90723-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-90723-24 in batch 660-138098.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV1075A-CS

Lab Sample ID: 680-90723-1

Date Collected: 05/23/13 10:05
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Acenaphthylene	**76**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Anthracene	**130**		42	21	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[a]anthracene	**370**		40	19	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[a]pyrene	**360**		51	26	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[b]fluoranthene	**610**		60	30	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[g,h,i]perylene	**250**		99	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[k]fluoranthene	**180**		40	18	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Chrysene	**480**		45	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Dibenz(a,h)anthracene	**94**	**J**	99	20	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Fluoranthene	**670**		99	20	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Fluorene	**33**	**J**	99	20	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Indeno[1,2,3-cd]pyrene	**260**		99	35	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
1-Methylnaphthalene	**220**		200	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
2-Methylnaphthalene	**240**		200	35	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Phenanthrene	**620**	**B**	40	19	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Pyrene	**580**		99	18	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*30 - 130*	*06/03/13 06:50*	*06/03/13 20:41*	*4*

Client Sample ID: CV1113A-CS

Lab Sample ID: 680-90723-2

Date Collected: 05/23/13 09:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Acenaphthylene	**33**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Anthracene	**41**		41	21	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[a]anthracene	**230**		39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[a]pyrene	**240**		51	26	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[b]fluoranthene	**410**		60	30	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[g,h,i]perylene	**250**		98	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[k]fluoranthene	**120**		39	18	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Chrysene	**260**		44	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Dibenz(a,h)anthracene	**34**	**J**	98	20	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Fluoranthene	**350**		98	20	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Fluorene	98	U	98	20	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Indeno[1,2,3-cd]pyrene	**200**		98	35	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
1-Methylnaphthalene	**89**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
2-Methylnaphthalene	**120**	**J**	200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Naphthalene	**78**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Phenanthrene	**240**	**B**	39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Pyrene	**330**		98	18	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*06/03/13 06:50*	*06/04/13 12:44*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV1113B-CS

Lab Sample ID: 680-90723-3
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 84.0

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	☼	06/03/13 06:50	06/04/13 13:03	1
Acenaphthylene	14	J	47	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Anthracene	23		9.8	4.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[a]anthracene	140		9.4	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[a]pyrene	130		12	6.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[b]fluoranthene	250		14	7.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[g,h,i]perylene	120		23	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[k]fluoranthene	67		9.4	4.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Chrysene	190		11	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Dibenz(a,h)anthracene	35		23	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Fluoranthene	210		23	4.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Fluorene	13	J	23	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Indeno[1,2,3-cd]pyrene	92		23	8.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
1-Methylnaphthalene	90		47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
2-Methylnaphthalene	110		47	8.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Naphthalene	68		47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Phenanthrene	170	B	9.4	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Pyrene	200		23	4.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:03*	*1*

Client Sample ID: CV1163A-CS

Lab Sample ID: 680-90723-4
Date Collected: 05/23/13 10:34
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 83.8

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	24	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Acenaphthylene	20	J	47	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Anthracene	30		9.9	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[a]anthracene	180		9.5	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[a]pyrene	170		12	6.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[b]fluoranthene	290		14	7.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[g,h,i]perylene	140		24	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[k]fluoranthene	82		9.5	4.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Chrysene	220		11	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Dibenz(a,h)anthracene	41		24	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Fluoranthene	300		24	4.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Fluorene	14	J	24	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Indeno[1,2,3-cd]pyrene	120		24	8.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
1-Methylnaphthalene	58		47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
2-Methylnaphthalene	55		47	8.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Naphthalene	46	J	47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Phenanthrene	180	B	9.5	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Pyrene	290		24	4.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:21*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV1163B-CS

Lab Sample ID: 680-90723-5
Date Collected: 05/23/13 10:42
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Acenaphthylene	**38**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Anthracene	**38**	**J**	42	21	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[a]anthracene	**330**		40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[a]pyrene	**310**		52	26	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[b]fluoranthene	**460**		61	30	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[g,h,i]perylene	**260**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[k]fluoranthene	**130**		40	18	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Chrysene	**400**		45	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Dibenz(a,h)anthracene	**80**	**J**	100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Fluoranthene	**390**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Fluorene	100	U	100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Indeno[1,2,3-cd]pyrene	**220**		100	35	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
1-Methylnaphthalene	**130**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
2-Methylnaphthalene	**160**	**J**	200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Naphthalene	**110**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Phenanthrene	**290**	**B**	40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Pyrene	**410**		100	18	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:39*	*4*

Client Sample ID: CV1347A-CS

Lab Sample ID: 680-90723-6
Date Collected: 05/23/13 08:40
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**140**		130	26	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Acenaphthylene	**150**		52	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Anthracene	**510**		11	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[a]anthracene	**1800**		10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[a]pyrene	**1500**		13	6.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[b]fluoranthene	**2500**		16	7.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[g,h,i]perylene	**950**		26	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[k]fluoranthene	**1000**		10	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Chrysene	**2100**		12	5.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Dibenz(a,h)anthracene	**360**		26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Fluoranthene	**3200**		26	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Fluorene	**140**		26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Indeno[1,2,3-cd]pyrene	**760**		26	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
1-Methylnaphthalene	**570**		52	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
2-Methylnaphthalene	**620**		52	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Naphthalene	**480**		52	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Phenanthrene	**2100**	**B**	10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Pyrene	**3100**		26	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:58*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV1347B-CS

Lab Sample ID: 680-90723-7

Date Collected: 05/23/13 08:46
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Acenaphthylene	**830**		200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Anthracene	**900**		43	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[a]anthracene	**1700**		41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[a]pyrene	**2100**		53	26	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[b]fluoranthene	**5800**		62	31	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[g,h,i]perylene	**2300**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[k]fluoranthene	**2000**		41	18	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Chrysene	**2800**		46	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Dibenz(a,h)anthracene	**680**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Fluoranthene	**2000**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Fluorene	**140**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Indeno[1,2,3-cd]pyrene	**1900**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
1-Methylnaphthalene	**1200**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
2-Methylnaphthalene	**1300**		200	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Naphthalene	**650**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Phenanthrene	**1600**	**B**	41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Pyrene	**2500**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*06/03/13 06:50*	*06/04/13 14:16*	*4*

Client Sample ID: CV1347C-CS

Lab Sample ID: 680-90723-8

Date Collected: 05/23/13 08:50
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Acenaphthylene	**1900**		210	26	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Anthracene	**1600**		43	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[a]anthracene	**4400**		41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[a]pyrene	**4700**		53	27	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[b]fluoranthene	**12000**		63	31	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[g,h,i]perylene	**3700**		100	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[k]fluoranthene	**4900**		41	18	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Chrysene	**5700**		46	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Dibenz(a,h)anthracene	**1100**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Fluoranthene	**3100**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Fluorene	**110**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Indeno[1,2,3-cd]pyrene	**3100**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
1-Methylnaphthalene	**280**		210	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
2-Methylnaphthalene	**280**		210	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Naphthalene	**310**		210	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Phenanthrene	**670**	**B**	41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Pyrene	**5000**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*06/03/13 06:50*	*06/04/13 14:34*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV0978A-CS

Lab Sample ID: 680-90723-9
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.2

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	100	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Acenaphthylene	**110**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Anthracene	**140**		42	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[a]anthracene	**770**		40	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[a]pyrene	**810**		52	26	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[b]fluoranthene	**1500**		61	31	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[g,h,i]perylene	**690**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[k]fluoranthene	**430**		40	18	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Chrysene	**1000**		45	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Dibenz(a,h)anthracene	**220**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Fluoranthene	**1300**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Fluorene	**44**	**J**	100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Indeno[1,2,3-cd]pyrene	**470**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
1-Methylnaphthalene	**220**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
2-Methylnaphthalene	**270**		200	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Naphthalene	**200**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Phenanthrene	**630**	**B**	40	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Pyrene	**1400**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*06/03/13 06:50*	*06/04/13 14:53*	*4*

Client Sample ID: CV0978A-CSD

Lab Sample ID: 680-90723-10
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Acenaphthylene	**100**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Anthracene	**130**		41	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[a]anthracene	**670**		39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[a]pyrene	**730**		51	26	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[b]fluoranthene	**1300**		60	30	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[g,h,i]perylene	**750**		99	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[k]fluoranthene	**620**		39	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Chrysene	**960**		44	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Dibenz(a,h)anthracene	**230**		99	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Fluoranthene	**1400**		99	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Fluorene	**49**	**J**	99	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Indeno[1,2,3-cd]pyrene	**590**		99	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
1-Methylnaphthalene	**200**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
2-Methylnaphthalene	**240**		200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Phenanthrene	**860**	**B**	39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Pyrene	**1300**		99	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*06/03/13 06:50*	*06/04/13 15:11*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV0978B-CS

Lab Sample ID: 680-90723-11

Date Collected: 05/23/13 10:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.7

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	100	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Acenaphthylene	**67**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Anthracene	**190**		42	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[a]anthracene	**1100**		40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[a]pyrene	**1000**		52	26	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[b]fluoranthene	**1900**		61	30	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[g,h,i]perylene	**820**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[k]fluoranthene	**610**		40	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Chrysene	**1300**		45	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Dibenz(a,h)anthracene	**240**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Fluoranthene	**2400**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Fluorene	**52**	**J**	100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Indeno[1,2,3-cd]pyrene	**630**		100	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
1-Methylnaphthalene	**82**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
2-Methylnaphthalene	**130**	**J**	200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Naphthalene	**77**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Phenanthrene	**900**	**B**	40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Pyrene	**2100**		100	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*06/03/13 06:50*	*06/04/13 15:29*	*4*

Client Sample ID: CV0978B-CSD

Lab Sample ID: 680-90723-12

Date Collected: 05/23/13 10:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Acenaphthylene	**83**	**J**	200	26	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Anthracene	**140**		43	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[a]anthracene	**1100**		41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[a]pyrene	**1100**		53	27	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[b]fluoranthene	**2000**		62	31	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[g,h,i]perylene	**810**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[k]fluoranthene	**670**		41	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Chrysene	**1400**		46	23	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Dibenz(a,h)anthracene	**250**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Fluoranthene	**2200**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Fluorene	**48**	**J**	100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Indeno[1,2,3-cd]pyrene	**670**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
1-Methylnaphthalene	**110**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
2-Methylnaphthalene	**150**	**J**	200	36	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Naphthalene	**130**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Phenanthrene	**930**	**B**	41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Pyrene	**1900**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*06/03/13 06:50*	*06/04/13 15:48*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV0978C-CS

Lab Sample ID: 680-90723-13

Date Collected: 05/23/13 10:15
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 71.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	550	110	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Acenaphthylene	95	J	220	27	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Anthracene	220		46	23	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[a]anthracene	1200		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[a]pyrene	1000		57	29	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[b]fluoranthene	1800		67	33	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[g,h,i]perylene	830		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[k]fluoranthene	590		44	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Chrysene	1500		49	25	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Dibenz(a,h)anthracene	190		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Fluoranthene	1900		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Fluorene	130		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Indeno[1,2,3-cd]pyrene	560		110	39	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
1-Methylnaphthalene	1300		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
2-Methylnaphthalene	1400		220	39	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Naphthalene	620		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Phenanthrene	1500		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Pyrene	1900		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:01*	*4*

Client Sample ID: CV0978D-CS

Lab Sample ID: 680-90723-14

Date Collected: 05/23/13 10:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 67.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Acenaphthylene	63	J	240	29	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Anthracene	140		50	25	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[a]anthracene	900		47	23	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[a]pyrene	880		61	31	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[b]fluoranthene	1600		72	36	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[g,h,i]perylene	710		120	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[k]fluoranthene	500		47	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Chrysene	1200		53	27	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Dibenz(a,h)anthracene	210		120	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Fluoranthene	1400		120	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Fluorene	68	J	120	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Indeno[1,2,3-cd]pyrene	490		120	42	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
1-Methylnaphthalene	430		240	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
2-Methylnaphthalene	510		240	42	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Naphthalene	390		240	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Phenanthrene	950		47	23	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Pyrene	1400		120	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:19*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV0978E-CS

Lab Sample ID: 680-90723-15

Date Collected: 05/23/13 10:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Acenaphthylene	**64**	**J**	210	27	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Anthracene	**200**		45	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[a]anthracene	**1300**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[a]pyrene	**1300**		56	28	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[b]fluoranthene	**2400**		65	33	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[g,h,i]perylene	**940**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[k]fluoranthene	**790**		43	19	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Chrysene	**1600**		48	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Dibenz(a,h)anthracene	**310**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Fluoranthene	**2600**		110	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Fluorene	**68**	**J**	110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Indeno[1,2,3-cd]pyrene	**800**		110	38	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
1-Methylnaphthalene	**200**	**J**	210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
2-Methylnaphthalene	**250**		210	38	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Naphthalene	**160**	**J**	210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Phenanthrene	**1200**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Pyrene	**2400**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:38*	*4*

Client Sample ID: CV0978F-CS

Lab Sample ID: 680-90723-16

Date Collected: 05/23/13 11:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Acenaphthylene	**75**	**J**	200	25	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Anthracene	**110**		42	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[a]anthracene	**690**		40	19	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[a]pyrene	**660**		52	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[b]fluoranthene	**1400**		61	30	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[g,h,i]perylene	**700**		99	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[k]fluoranthene	**300**		40	18	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Chrysene	**950**		45	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Dibenz(a,h)anthracene	**160**		99	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Fluoranthene	**1100**		99	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Fluorene	**50**	**J**	99	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Indeno[1,2,3-cd]pyrene	**510**		99	35	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
1-Methylnaphthalene	**390**		200	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
2-Methylnaphthalene	**460**		200	35	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Naphthalene	**320**		200	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Phenanthrene	**790**		40	19	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Pyrene	**1100**		99	18	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:56*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV0978G-CS

Lab Sample ID: 680-90723-17

Date Collected: 05/23/13 11:15
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 72.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Acenaphthylene	**64**	**J**	220	28	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Anthracene	**140**		46	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[a]anthracene	**890**		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[a]pyrene	**1000**		57	29	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[b]fluoranthene	**1800**		67	34	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[g,h,i]perylene	**1100**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[k]fluoranthene	**680**		44	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Chrysene	**1300**		50	25	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Dibenz(a,h)anthracene	**240**		110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Fluoranthene	**1500**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Fluorene	**83**	**J**	110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Indeno[1,2,3-cd]pyrene	**580**		110	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
1-Methylnaphthalene	**470**		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
2-Methylnaphthalene	**530**		220	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Naphthalene	**380**		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Phenanthrene	**920**		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Pyrene	**1600**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*30 - 130*	*06/03/13 10:11*	*06/04/13 18:14*	*4*

Client Sample ID: CV0978H-CS

Lab Sample ID: 680-90723-18

Date Collected: 05/23/13 11:30
Matrix: Solid
Date Received: 05/25/13 09:45
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	530	U	530	110	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Acenaphthylene	**52**	**J**	210	26	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Anthracene	**83**		44	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[a]anthracene	**580**		42	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[a]pyrene	**660**		55	28	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[b]fluoranthene	**1100**		65	32	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[g,h,i]perylene	**550**		110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[k]fluoranthene	**390**		42	19	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Chrysene	**800**		48	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Dibenz(a,h)anthracene	**160**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Fluoranthene	**870**		110	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Fluorene	**59**	**J**	110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Indeno[1,2,3-cd]pyrene	**420**		110	38	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
1-Methylnaphthalene	**280**		210	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
2-Methylnaphthalene	**350**		210	38	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Naphthalene	**200**	**J**	210	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Phenanthrene	**580**		42	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Pyrene	**890**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*06/03/13 10:11*	*06/04/13 18:33*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV1008A-CS

Lab Sample ID: 680-90723-19

Date Collected: 05/23/13 14:43
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Acenaphthylene	**57**	**J**	220	28	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Anthracene	**84**		46	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[a]anthracene	**710**		44	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[a]pyrene	**990**		57	29	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[b]fluoranthene	**930**		67	34	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[g,h,i]perylene	**950**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[k]fluoranthene	**250**		44	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Chrysene	**1200**		50	25	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Dibenz(a,h)anthracene	**180**		110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Fluoranthene	**610**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Fluorene	**39**	**J**	110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Indeno[1,2,3-cd]pyrene	**380**		110	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
1-Methylnaphthalene	**220**		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
2-Methylnaphthalene	**240**		220	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Naphthalene	**150**	**J**	220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Phenanthrene	**520**		44	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Pyrene	**890**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*06/03/13 10:11*	*06/04/13 18:51*	*4*

Client Sample ID: CV1008B-CS

Lab Sample ID: 680-90723-20

Date Collected: 05/23/13 15:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Acenaphthylene	**54**	**J**	210	27	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Anthracene	**59**		45	23	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[a]anthracene	**400**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[a]pyrene	**410**		56	28	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[b]fluoranthene	**640**		65	33	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[g,h,i]perylene	**330**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[k]fluoranthene	**180**		43	19	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Chrysene	**660**		48	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Dibenz(a,h)anthracene	**110**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Fluoranthene	**400**		110	21	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Fluorene	**48**	**J**	110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Indeno[1,2,3-cd]pyrene	**290**		110	38	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
1-Methylnaphthalene	**230**		210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
2-Methylnaphthalene	**340**		210	38	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Naphthalene	**180**	**J**	210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Phenanthrene	**460**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Pyrene	**440**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/04/13 19:09*	*4*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-90723-1

SDG Number: 68090723-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
6/7/2013 4:44 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
06/07/2013

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

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90723-1

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

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

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

RECEIPT

The samples were received on 05/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1075A-CS (680-90723-1), CV1113A-CS (680-90723-2), CV1113B-CS (680-90723-3), CV1163A-CS (680-90723-4), CV1163B-CS (680-90723-5), CV1347A-CS (680-90723-6), CV1347B-CS (680-90723-7), CV1347C-CS (680-90723-8), CV0978A-CS (680-90723-9), CV0978A-CSD (680-90723-10), CV0978B-CS (680-90723-11), CV0978B-CSD (680-90723-12), CV0978C-CS (680-90723-13), CV0978D-CS (680-90723-14), CV0978E-CS (680-90723-15), CV0978F-CS (680-90723-16), CV0978G-CS (680-90723-17), CV0978H-CS (680-90723-18), CV1008A-CS (680-90723-19) and CV1008B-CS (680-90723-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and analyzed on 06/03/2013 and 06/04/2013.

Samples CV1075A-CS (680-90723-1)[4X], CV1113A-CS (680-90723-2)[4X], CV1163B-CS (680-90723-5)[4X], CV1347B-CS (680-90723-7)[4X], CV1347C-CS (680-90723-8)[4X], CV0978A-CS (680-90723-9)[4X], CV0978A-CSD (680-90723-10)[4X], CV0978B-CS (680-90723-11)[4X], CV0978B-CSD (680-90723-12)[4X], CV0978C-CS (680-90723-13)[4X], CV0978D-CS (680-90723-14)[4X], CV0978E-CS (680-90723-15)[4X], CV0978F-CS (680-90723-16)[4X], CV0978G-CS (680-90723-17)[4X], CV0978H-CS (680-90723-18)[4X], CV1008A-CS (680-90723-19)[4X] and CV1008B-CS (680-90723-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-90723-24 in batch 660-138098.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
Sdg Number: 68090723-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90723-1	CV1075A-CS	Solid	05/23/2013 1005	05/25/2013 0945
680-90723-1MS	CV1075A-CS	Solid	05/23/2013 1005	05/25/2013 0945
680-90723-1MSD	CV1075A-CS	Solid	05/23/2013 1005	05/25/2013 0945
680-90723-2	CV1113A-CS	Solid	05/23/2013 0930	05/25/2013 0945
680-90723-3	CV1113B-CS	Solid	05/23/2013 0945	05/25/2013 0945
680-90723-4	CV1163A-CS	Solid	05/23/2013 1034	05/25/2013 0945
680-90723-5	CV1163B-CS	Solid	05/23/2013 1042	05/25/2013 0945
680-90723-6	CV1347A-CS	Solid	05/23/2013 0840	05/25/2013 0945
680-90723-7	CV1347B-CS	Solid	05/23/2013 0846	05/25/2013 0945
680-90723-8	CV1347C-CS	Solid	05/23/2013 0850	05/25/2013 0945
680-90723-9	CV0978A-CS	Solid	05/23/2013 0945	05/25/2013 0945
680-90723-10	CV0978A-CSD	Solid	05/23/2013 0945	05/25/2013 0945
680-90723-11	CV0978B-CS	Solid	05/23/2013 1000	05/25/2013 0945
680-90723-12	CV0978B-CSD	Solid	05/23/2013 1000	05/25/2013 0945
680-90723-13	CV0978C-CS	Solid	05/23/2013 1015	05/25/2013 0945
680-90723-14	CV0978D-CS	Solid	05/23/2013 1030	05/25/2013 0945
680-90723-15	CV0978E-CS	Solid	05/23/2013 1045	05/25/2013 0945
680-90723-16	CV0978F-CS	Solid	05/23/2013 1100	05/25/2013 0945
680-90723-17	CV0978G-CS	Solid	05/23/2013 1115	05/25/2013 0945
680-90723-18	CV0978H-CS	Solid	05/23/2013 1130	05/25/2013 0945
680-90723-19	CV1008A-CS	Solid	05/23/2013 1443	05/25/2013 0945
680-90723-20	CV1008B-CS	Solid	05/23/2013 1500	05/25/2013 0945

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
Sdg Number: 68090723-1

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: 680-90723-1
Sdg Number: 68090723-1

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: 680-90723-1
Sdg Number: 68090723-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
Sdg Number: 68090723-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-137975					
LCS 660-137975/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137975/1-A	Method Blank	T	Solid	3546	
680-90723-1	CV1075A-CS	T	Solid	3546	
680-90723-1MS	Matrix Spike	T	Solid	3546	
680-90723-1MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90723-2	CV1113A-CS	T	Solid	3546	
680-90723-3	CV1113B-CS	T	Solid	3546	
680-90723-4	CV1163A-CS	T	Solid	3546	
680-90723-5	CV1163B-CS	T	Solid	3546	
680-90723-6	CV1347A-CS	T	Solid	3546	
680-90723-7	CV1347B-CS	T	Solid	3546	
680-90723-8	CV1347C-CS	T	Solid	3546	
680-90723-9	CV0978A-CS	T	Solid	3546	
680-90723-10	CV0978A-CSD	T	Solid	3546	
680-90723-11	CV0978B-CS	T	Solid	3546	
680-90723-12	CV0978B-CSD	T	Solid	3546	
Prep Batch: 660-137991					
LCS 660-137991/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137991/1-A	Method Blank	T	Solid	3546	
680-90723-13	CV0978C-CS	T	Solid	3546	
680-90723-14	CV0978D-CS	T	Solid	3546	
680-90723-15	CV0978E-CS	T	Solid	3546	
680-90723-16	CV0978F-CS	T	Solid	3546	
680-90723-17	CV0978G-CS	T	Solid	3546	
680-90723-18	CV0978H-CS	T	Solid	3546	
680-90723-19	CV1008A-CS	T	Solid	3546	
680-90723-20	CV1008B-CS	T	Solid	3546	
680-90723-A-24-B MS	Matrix Spike	T	Solid	3546	
680-90723-A-24-D MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-138011					
LCS 660-137975/2-A	Lab Control Sample	T	Solid	8270C LL	660-137975
MB 660-137975/1-A	Method Blank	T	Solid	8270C LL	660-137975
680-90723-1	CV1075A-CS	T	Solid	8270C LL	660-137975
680-90723-1MS	Matrix Spike	T	Solid	8270C LL	660-137975
680-90723-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137975

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
Sdg Number: 68090723-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-138098					
LCS 660-137991/2-A	Lab Control Sample	T	Solid	8270C LL	660-137991
MB 660-137991/1-A	Method Blank	T	Solid	8270C LL	660-137991
680-90723-2	CV1113A-CS	T	Solid	8270C LL	660-137975
680-90723-3	CV1113B-CS	T	Solid	8270C LL	660-137975
680-90723-4	CV1163A-CS	T	Solid	8270C LL	660-137975
680-90723-5	CV1163B-CS	T	Solid	8270C LL	660-137975
680-90723-6	CV1347A-CS	T	Solid	8270C LL	660-137975
680-90723-7	CV1347B-CS	T	Solid	8270C LL	660-137975
680-90723-8	CV1347C-CS	T	Solid	8270C LL	660-137975
680-90723-9	CV0978A-CS	T	Solid	8270C LL	660-137975
680-90723-10	CV0978A-CSD	T	Solid	8270C LL	660-137975
680-90723-11	CV0978B-CS	T	Solid	8270C LL	660-137975
680-90723-12	CV0978B-CSD	T	Solid	8270C LL	660-137975
680-90723-13	CV0978C-CS	T	Solid	8270C LL	660-137991
680-90723-14	CV0978D-CS	T	Solid	8270C LL	660-137991
680-90723-15	CV0978E-CS	T	Solid	8270C LL	660-137991
680-90723-16	CV0978F-CS	T	Solid	8270C LL	660-137991
680-90723-17	CV0978G-CS	T	Solid	8270C LL	660-137991
680-90723-18	CV0978H-CS	T	Solid	8270C LL	660-137991
680-90723-19	CV1008A-CS	T	Solid	8270C LL	660-137991
680-90723-20	CV1008B-CS	T	Solid	8270C LL	660-137991
680-90723-A-24-B MS	Matrix Spike	T	Solid	8270C LL	660-137991
680-90723-A-24-D MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137991

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
Sdg Number: 68090723-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137846					
680-90723-1	CV1075A-CS	T	Solid	Moisture	
680-90723-1MS	Matrix Spike	T	Solid	Moisture	
680-90723-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90723-2	CV1113A-CS	T	Solid	Moisture	
680-90723-3	CV1113B-CS	T	Solid	Moisture	
680-90723-4	CV1163A-CS	T	Solid	Moisture	
680-90723-5	CV1163B-CS	T	Solid	Moisture	
680-90723-6	CV1347A-CS	T	Solid	Moisture	
680-90723-7	CV1347B-CS	T	Solid	Moisture	
680-90723-8	CV1347C-CS	T	Solid	Moisture	
680-90723-9	CV0978A-CS	T	Solid	Moisture	
680-90723-10	CV0978A-CSD	T	Solid	Moisture	
680-90723-11	CV0978B-CS	T	Solid	Moisture	
680-90723-12	CV0978B-CSD	T	Solid	Moisture	
680-90723-13	CV0978C-CS	T	Solid	Moisture	
680-90723-14	CV0978D-CS	T	Solid	Moisture	
680-90723-15	CV0978E-CS	T	Solid	Moisture	
680-90723-16	CV0978F-CS	T	Solid	Moisture	
680-90723-17	CV0978G-CS	T	Solid	Moisture	
680-90723-18	CV0978H-CS	T	Solid	Moisture	
680-90723-19	CV1008A-CS	T	Solid	Moisture	
680-90723-20	CV1008B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 137704

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 137704

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

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

Date Analyzed: 06/04/13 10:50 Lab File ID: 1CF04003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/04/13 11:09

Lab Sample ID: 680-90723-2 Client Sample ID: CV1113A-CS

Date Analyzed: 06/04/13 12:44 Lab File ID: 1CF04009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.78	Split Peak	cantins	06/05/13 11:26

Lab Sample ID: 680-90723-3 Client Sample ID: CV1113B-CS

Date Analyzed: 06/04/13 13:03 Lab File ID: 1CF04010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 11:27
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 11:27
Indeno[1,2,3-cd]pyrene	10.78	Split Peak	cantins	06/05/13 11:27

Lab Sample ID: 680-90723-4 Client Sample ID: CV1163A-CS

Date Analyzed: 06/04/13 13:21 Lab File ID: 1CF04011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.78	Split Peak	cantins	06/05/13 11:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-5 Client Sample ID: CV1163B-CS

Date Analyzed: 06/04/13 13:39 Lab File ID: 1CF04012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 11:29
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:29
Dibenz(a,h)anthracene	10.81	Baseline Event	cantins	06/05/13 11:29

Lab Sample ID: 680-90723-6 Client Sample ID: CV1347A-CS

Date Analyzed: 06/04/13 13:58 Lab File ID: 1CF04013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:30
Benzo[g,h,i]perylene	11.22	Baseline Event	cantins	06/05/13 11:30

Lab Sample ID: 680-90723-7 Client Sample ID: CV1347B-CS

Date Analyzed: 06/04/13 14:16 Lab File ID: 1CF04014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 11:33
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 11:33
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:33
Benzo[g,h,i]perylene	11.21	Baseline Event	cantins	06/05/13 11:33

Lab Sample ID: 680-90723-8 Client Sample ID: CV1347C-CS

Date Analyzed: 06/04/13 14:34 Lab File ID: 1CF04015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-9 Client Sample ID: CV0978A-CS

Date Analyzed: 06/04/13 14:53 Lab File ID: 1CF04016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 11:34
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 11:34
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:35

Lab Sample ID: 680-90723-10 Client Sample ID: CV0978A-CSD

Date Analyzed: 06/04/13 15:11 Lab File ID: 1CF04017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 11:35
Benzo[k]fluoranthene	9.01	Baseline Event	cantins	06/05/13 11:35
Indeno[1,2,3-cd]pyrene	10.78	Split Peak	cantins	06/05/13 11:36
Dibenz(a,h)anthracene	10.80	Baseline Event	cantins	06/05/13 11:35
Benzo[g,h,i]perylene	11.20	Baseline Event	cantins	06/05/13 11:36

Lab Sample ID: 680-90723-11 Client Sample ID: CV0978B-CS

Date Analyzed: 06/04/13 15:29 Lab File ID: 1CF04018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 11:36
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 11:36
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:37
Benzo[g,h,i]perylene	11.21	Baseline Event	cantins	06/05/13 11:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-12 Client Sample ID: CV0978B-CSD

Date Analyzed: 06/04/13 15:48 Lab File ID: 1CF04019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 11:38
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 11:38

Lab Sample ID: LCS 660-137991/2-A Client Sample ID:

Date Analyzed: 06/04/13 16:24 Lab File ID: 1CF04021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 13:37
Dibenz(a,h)anthracene	10.81	Baseline Event	cantins	06/05/13 13:37
Benzo[g,h,i]perylene	11.20	Baseline Event	cantins	06/05/13 13:37

Lab Sample ID: 680-90723-13 Client Sample ID: CV0978C-CS

Date Analyzed: 06/04/13 17:01 Lab File ID: 1CF04023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 14:48
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 14:48
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 14:49
Benzo[g,h,i]perylene	11.20	Baseline Event	cantins	06/05/13 14:48

Lab Sample ID: 680-90723-14 Client Sample ID: CV0978D-CS

Date Analyzed: 06/04/13 17:19 Lab File ID: 1CF04024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 14:50
Benzo[g,h,i]perylene	11.20	Baseline Event	cantins	06/05/13 14:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-15 Client Sample ID: CV0978E-CS

Date Analyzed: 06/04/13 17:38 Lab File ID: 1CF04025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 14:51
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 14:51
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 14:51

Lab Sample ID: 680-90723-16 Client Sample ID: CV0978F-CS

Date Analyzed: 06/04/13 17:56 Lab File ID: 1CF04026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 14:52
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 14:54
Dibenz(a,h)anthracene	10.82	Baseline Event	cantins	06/05/13 14:54

Lab Sample ID: 680-90723-17 Client Sample ID: CV0978G-CS

Date Analyzed: 06/04/13 18:14 Lab File ID: 1CF04027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 14:55
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 14:55
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:07
Benzo[g,h,i]perylene	11.22	Baseline Event	cantins	06/05/13 15:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-18 Client Sample ID: CV0978H-CS

Date Analyzed: 06/04/13 18:33 Lab File ID: 1CF04028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.00	Split Peak	cantins	06/05/13 15:08
Benzo[k]fluoranthene	9.02	Baseline Event	cantins	06/05/13 15:08
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:08
Dibenz(a,h)anthracene	10.80	Baseline Event	cantins	06/05/13 15:08

Lab Sample ID: 680-90723-19 Client Sample ID: CV1008A-CS

Date Analyzed: 06/04/13 18:51 Lab File ID: 1CF04029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:09

Lab Sample ID: 680-90723-20 Client Sample ID: CV1008B-CS

Date Analyzed: 06/04/13 19:09 Lab File ID: 1CF04030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:10
Dibenz(a,h)anthracene	10.81	Baseline Event	cantins	06/05/13 15:10

Lab Sample ID: 680-90723-A-24-B MS Client Sample ID:

Date Analyzed: 06/04/13 20:41 Lab File ID: 1CF04035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Analysis Batch Number: 138098

Lab Sample ID: 680-90723-A-24-D MSD Client Sample ID:

Date Analyzed: 06/04/13 20:59 Lab File ID: 1CF04036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.79	Split Peak	cantins	06/05/13 15:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMD5973 Analysis Batch Number: 137830

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMD5973 Analysis Batch Number: 138011

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

Date Analyzed: 06/03/13 18:26 Lab File ID: 1DF03017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	6.30	Baseline Event	cantins	06/04/13 12:05

Lab Sample ID: 680-90723-1 Client Sample ID: CV1075A-CS

Date Analyzed: 06/03/13 20:41 Lab File ID: 1DF03023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/04/13 12:09

Lab Sample ID: 680-90723-1 MS Client Sample ID: CV1075A-CS MS

Date Analyzed: 06/03/13 21:04 Lab File ID: 1DF03024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/04/13 12:09

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.: 680-90723-1

SDG No.: 68090723-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1075A-CS	680-90723-1	103
CV1113A-CS	680-90723-2	95
CV1113B-CS	680-90723-3	83
CV1163A-CS	680-90723-4	76
CV1163B-CS	680-90723-5	68
CV1347A-CS	680-90723-6	73
CV1347B-CS	680-90723-7	87
CV1347C-CS	680-90723-8	89
CV0978A-CS	680-90723-9	82
CV0978A-CSD	680-90723-10	85
CV0978B-CS	680-90723-11	85
CV0978B-CSD	680-90723-12	88
CV0978C-CS	680-90723-13	75
CV0978D-CS	680-90723-14	69
CV0978E-CS	680-90723-15	75
CV0978F-CS	680-90723-16	72
CV0978G-CS	680-90723-17	100
CV0978H-CS	680-90723-18	87
CV1008A-CS	680-90723-19	77
CV1008B-CS	680-90723-20	75
	MB 660-137975/1-A	91
	MB 660-137991/1-A	86
	LCS 660-137975/2-A	97
	LCS 660-137991/2-A	86
	680-90723-A-24-B MS	37
CV1075A-CS MS	680-90723-1 MS	89
	680-90723-A-24-D MSD	42
CV1075A-CS MSD	680-90723-1 MSD	88

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	648	608	94	39-130	
Acenaphthylene	648	654	101	38-130	
Anthracene	648	676	104	37-130	
Benzo[a]anthracene	648	622	96	40-130	
Benzo[a]pyrene	648	602	93	49-130	
Benzo[b]fluoranthene	648	684	105	37-130	
Benzo[g,h,i]perylene	648	599	92	32-130	
Benzo[k]fluoranthene	648	629	97	32-130	
Chrysene	648	642	99	41-130	
Dibenz(a,h)anthracene	648	617	95	27-130	
Fluoranthene	648	659	102	40-130	
Fluorene	648	656	101	40-130	
Indeno[1,2,3-cd]pyrene	648	574	89	30-130	
1-Methylnaphthalene	648	569	88	31-130	
2-Methylnaphthalene	648	610	94	33-130	
Naphthalene	648	588	91	36-130	
Phenanthrene	648	660	102	42-130	
Pyrene	648	681	105	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Matrix: Solid Level: Low Lab File ID: 1CF04021.D

Lab ID: LCS 660-137991/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	584	88	39-130	
Acenaphthylene	664	628	95	38-130	
Anthracene	664	592	89	37-130	
Benzo[a]anthracene	664	612	92	40-130	
Benzo[a]pyrene	664	583	88	49-130	
Benzo[b]fluoranthene	664	680	102	37-130	
Benzo[g,h,i]perylene	664	561	85	32-130	
Benzo[k]fluoranthene	664	597	90	32-130	
Chrysene	664	572	86	41-130	
Dibenz(a,h)anthracene	664	689	104	27-130	
Fluoranthene	664	594	90	40-130	
Fluorene	664	617	93	40-130	
Indeno[1,2,3-cd]pyrene	664	533	80	30-130	
1-Methylnaphthalene	664	590	89	31-130	
2-Methylnaphthalene	664	576	87	33-130	
Naphthalene	664	499	75	36-130	
Phenanthrene	664	543	82	42-130	
Pyrene	664	662	100	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.: 680-90723-1

SDG No.: 68090723-1

Matrix: Solid Level: Low Lab File ID: 1CF04035.D

Lab ID: 680-90723-A-24-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	885	130 U	374	42	39-130	
Acenaphthylene	885	38 J	300	30	38-130	F
Anthracene	885	54	338	32	37-130	F
Benzo[a]anthracene	885	270	596	36	40-130	F
Benzo[a]pyrene	885	240	467	26	49-130	F
Benzo[b]fluoranthene	885	480	734	29	37-130	F
Benzo[g,h,i]perylene	885	180	380	22	32-130	F
Benzo[k]fluoranthene	885	170	437	30	32-130	F
Chrysene	885	410	623	24	41-130	F
Dibenz(a,h)anthracene	885	49	367	36	27-130	
Fluoranthene	885	460	646	21	40-130	F
Fluorene	885	19 J	378	41	40-130	
Indeno[1,2,3-cd]pyrene	885	140	335	23	30-130	F
1-Methylnaphthalene	885	95	446	40	31-130	
2-Methylnaphthalene	885	110	469	40	33-130	
Naphthalene	885	110	430	36	36-130	
Phenanthrene	885	310	589	32	42-130	F
Pyrene	885	420	673	28	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.: 680-90723-1

SDG No.: 68090723-1

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

Lab ID: 680-90723-1 MS Client ID: CV1075A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	824	490 U	756	92	39-130	
Acenaphthylene	824	76 J	877	97	38-130	
Anthracene	824	130	917	96	37-130	
Benzo[a]anthracene	824	370	984	75	40-130	
Benzo[a]pyrene	824	360	939	70	49-130	
Benzo[b]fluoranthene	824	610	1240	76	37-130	
Benzo[g,h,i]perylene	824	250	780	64	32-130	
Benzo[k]fluoranthene	824	180	911	89	32-130	
Chrysene	824	480	1140	80	41-130	
Dibenz(a,h)anthracene	824	94 J	721	76	27-130	
Fluoranthene	824	670	1220	67	40-130	
Fluorene	824	33 J	813	95	40-130	
Indeno[1,2,3-cd]pyrene	824	260	798	66	30-130	
1-Methylnaphthalene	824	220	839	75	31-130	
2-Methylnaphthalene	824	240	904	81	33-130	
Naphthalene	824	180 J	820	78	36-130	
Phenanthrene	824	620	1160	65	42-130	
Pyrene	824	580	1190	74	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Matrix: Solid Level: Low Lab File ID: 1CF04036.D

Lab ID: 680-90723-A-24-D MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	885	387	44	3	40	39-130	
Acenaphthylene	885	376	38	22	40	38-130	
Anthracene	885	399	39	16	40	37-130	
Benzo[a]anthracene	885	678	46	13	40	40-130	
Benzo[a]pyrene	885	534	33	13	40	49-130	F
Benzo[b]fluoranthene	885	862	43	16	40	37-130	
Benzo[g,h,i]perylene	885	399	25	5	40	32-130	F
Benzo[k]fluoranthene	885	511	38	16	40	32-130	
Chrysene	885	740	37	17	40	41-130	F
Dibenz(a,h)anthracene	885	360	35	2	40	27-130	
Fluoranthene	885	865	46	29	40	40-130	
Fluorene	885	416	45	10	40	40-130	
Indeno[1,2,3-cd]pyrene	885	376	27	12	40	30-130	F
1-Methylnaphthalene	885	485	44	8	40	31-130	
2-Methylnaphthalene	885	527	47	12	40	33-130	
Naphthalene	885	494	43	14	40	36-130	
Phenanthrene	885	686	43	15	40	42-130	
Pyrene	885	874	51	26	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.: 680-90723-1

SDG No.: 68090723-1

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

Lab ID: 680-90723-1 MSD Client ID: CV1075A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	824	767	93	1	40	39-130	
Acenaphthylene	824	869	96	1	40	38-130	
Anthracene	824	910	95	1	40	37-130	
Benzo[a]anthracene	824	964	72	2	40	40-130	
Benzo[a]pyrene	824	942	71	0	40	49-130	
Benzo[b]fluoranthene	824	1190	71	3	40	37-130	
Benzo[g,h,i]perylene	824	792	66	2	40	32-130	
Benzo[k]fluoranthene	824	907	88	0	40	32-130	
Chrysene	824	1090	74	4	40	41-130	
Dibenz(a,h)anthracene	824	729	77	1	40	27-130	
Fluoranthene	824	1130	56	8	40	40-130	
Fluorene	824	812	94	0	40	40-130	
Indeno[1,2,3-cd]pyrene	824	801	66	0	40	30-130	
1-Methylnaphthalene	824	840	75	0	40	31-130	
2-Methylnaphthalene	824	899	80	1	40	33-130	
Naphthalene	824	810	77	1	40	36-130	
Phenanthrene	824	1080	56	7	40	42-130	
Pyrene	824	1090	62	9	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137975/2-A	1DF03018.D	06/03/2013 18:48
CV1075A-CS	680-90723-1	1DF03023.D	06/03/2013 20:41
CV1075A-CS MS	680-90723-1 MS	1DF03024.D	06/03/2013 21:04
CV1075A-CS MSD	680-90723-1 MSD	1DF03025.D	06/03/2013 21:26
CV1113A-CS	680-90723-2	1CF04009.D	06/04/2013 12:44
CV1113B-CS	680-90723-3	1CF04010.D	06/04/2013 13:03
CV1163A-CS	680-90723-4	1CF04011.D	06/04/2013 13:21
CV1163B-CS	680-90723-5	1CF04012.D	06/04/2013 13:39
CV1347A-CS	680-90723-6	1CF04013.D	06/04/2013 13:58
CV1347B-CS	680-90723-7	1CF04014.D	06/04/2013 14:16
CV1347C-CS	680-90723-8	1CF04015.D	06/04/2013 14:34
CV0978A-CS	680-90723-9	1CF04016.D	06/04/2013 14:53
CV0978A-CSD	680-90723-10	1CF04017.D	06/04/2013 15:11
CV0978B-CS	680-90723-11	1CF04018.D	06/04/2013 15:29
CV0978B-CSD	680-90723-12	1CF04019.D	06/04/2013 15:48

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Lab File ID: 1CF04020.D Lab Sample ID: MB 660-137991/1-A

Matrix: Solid Date Extracted: 06/03/2013 10:11

Instrument ID: BSMC5973 Date Analyzed: 06/04/2013 16:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137991/2-A	1CF04021.D	06/04/2013 16:24
CV0978C-CS	680-90723-13	1CF04023.D	06/04/2013 17:01
CV0978D-CS	680-90723-14	1CF04024.D	06/04/2013 17:19
CV0978E-CS	680-90723-15	1CF04025.D	06/04/2013 17:38
CV0978F-CS	680-90723-16	1CF04026.D	06/04/2013 17:56
CV0978G-CS	680-90723-17	1CF04027.D	06/04/2013 18:14
CV0978H-CS	680-90723-18	1CF04028.D	06/04/2013 18:33
CV1008A-CS	680-90723-19	1CF04029.D	06/04/2013 18:51
CV1008B-CS	680-90723-20	1CF04030.D	06/04/2013 19:09
	680-90723-A-24-B MS	1CF04035.D	06/04/2013 20:41
	680-90723-A-24-D MSD	1CF04036.D	06/04/2013 20:59

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

Instrument ID: BSMC5973 DFTPP Injection Time: 10:24

Analysis Batch No.: 137704

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

Instrument ID: BSMC5973 DFTPP Injection Time: 10:20

Analysis Batch No.: 138098

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.7	
68	Less than 2.0 % of mass 69	0.7	(1.3)1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	49.8	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.6	
442	Greater than 50.0 % of mass 198	71.6	
443	15.0 - 24.0 % of mass 442	13.6	(19.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138098/3	1CF04003.D	06/04/2013	10:50
CV1113A-CS	680-90723-2	1CF04009.D	06/04/2013	12:44
CV1113B-CS	680-90723-3	1CF04010.D	06/04/2013	13:03
CV1163A-CS	680-90723-4	1CF04011.D	06/04/2013	13:21
CV1163B-CS	680-90723-5	1CF04012.D	06/04/2013	13:39
CV1347A-CS	680-90723-6	1CF04013.D	06/04/2013	13:58
CV1347B-CS	680-90723-7	1CF04014.D	06/04/2013	14:16
CV1347C-CS	680-90723-8	1CF04015.D	06/04/2013	14:34
CV0978A-CS	680-90723-9	1CF04016.D	06/04/2013	14:53
CV0978A-CSD	680-90723-10	1CF04017.D	06/04/2013	15:11
CV0978B-CS	680-90723-11	1CF04018.D	06/04/2013	15:29
CV0978B-CSD	680-90723-12	1CF04019.D	06/04/2013	15:48
	MB 660-137991/1-A	1CF04020.D	06/04/2013	16:06
	LCS 660-137991/2-A	1CF04021.D	06/04/2013	16:24
CV0978C-CS	680-90723-13	1CF04023.D	06/04/2013	17:01
CV0978D-CS	680-90723-14	1CF04024.D	06/04/2013	17:19
CV0978E-CS	680-90723-15	1CF04025.D	06/04/2013	17:38
CV0978F-CS	680-90723-16	1CF04026.D	06/04/2013	17:56
CV0978G-CS	680-90723-17	1CF04027.D	06/04/2013	18:14
CV0978H-CS	680-90723-18	1CF04028.D	06/04/2013	18:33
CV1008A-CS	680-90723-19	1CF04029.D	06/04/2013	18:51
CV1008B-CS	680-90723-20	1CF04030.D	06/04/2013	19:09
	680-90723-A-24-B MS	1CF04035.D	06/04/2013	20:41

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

Instrument ID: BSMC5973 DFTPP Injection Time: 10:20

Analysis Batch No.: 138098

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.7	
68	Less than 2.0 % of mass 69	0.7	(1.3)1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	49.8	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.6	
442	Greater than 50.0 % of mass 198	71.6	
443	15.0 - 24.0 % of mass 442	13.6	(19.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	680-90723-A-24-D MSD	1CF04036.D	06/04/2013	20:59

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

Instrument ID: BSMD5973 DFTPP Injection Time: 11:20

Analysis Batch No.: 137830

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

Instrument ID: BSMD5973 DFTPP Injection Time: 10:41

Analysis Batch No.: 138011

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.7	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	52.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.0	
275	10.0 - 60.0 % of mass 198	25.8	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	8.3	
442	Greater than 50.0 % of mass 198	57.6	
443	15.0 - 24.0 % of mass 442	10.8	(18.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138011/3	1DF03003.D	06/03/2013	10:59
	MB 660-137975/1-A	1DF03017.D	06/03/2013	18:26
	LCS 660-137975/2-A	1DF03018.D	06/03/2013	18:48
CV1075A-CS	680-90723-1	1DF03023.D	06/03/2013	20:41
CV1075A-CS MS	680-90723-1 MS	1DF03024.D	06/03/2013	21:04
CV1075A-CS MSD	680-90723-1 MSD	1DF03025.D	06/03/2013	21:26

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2979

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2979

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2979

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3174307	4.05	2209321	5.13	4430348	6.10
UPPER LIMIT		6348614	4.55	4418642	5.63	8860696	6.60
LOWER LIMIT		1587154	3.55	1104661	4.63	2215174	5.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90723-2	CV1113A-CS	2609086	4.05	1835295	5.13	3170653	6.10
680-90723-3	CV1113B-CS	2556773	4.05	1790056	5.13	3270583	6.10
680-90723-4	CV1163A-CS	2719505	4.05	1837666	5.13	3354932	6.10
680-90723-5	CV1163B-CS	2810902	4.05	1914724	5.13	3364160	6.10
680-90723-6	CV1347A-CS	2679410	4.05	1854172	5.13	3251302	6.10
680-90723-7	CV1347B-CS	2666805	4.05	1728366	5.13	3171805	6.10
680-90723-8	CV1347C-CS	2489127	4.05	1721008	5.13	3116045	6.10
680-90723-9	CV0978A-CS	2677338	4.05	1873379	5.13	3301172	6.10
680-90723-10	CV0978A-CSD	2658125	4.05	1786610	5.13	3173831	6.10
680-90723-11	CV0978B-CS	2538682	4.05	1739163	5.13	3084360	6.10
680-90723-12	CV0978B-CSD	2566229	4.05	1774331	5.13	3066249	6.10
MB 660-137991/1-A		2538180	4.05	1800811	5.13	3242505	6.10
LCS 660-137991/2-A		2633436	4.05	1783286	5.13	3441118	6.10
680-90723-13	CV0978C-CS	2601366	4.05	1814974	5.13	3202438	6.10
680-90723-14	CV0978D-CS	2484828	4.05	1709888	5.13	2886932	6.10
680-90723-15	CV0978E-CS	2845188	4.05	1969582	5.13	3369115	6.10
680-90723-16	CV0978F-CS	2763263	4.05	1873325	5.13	3302010	6.10
680-90723-17	CV0978G-CS	2787386	4.05	1874725	5.13	3304621	6.10
680-90723-18	CV0978H-CS	2668683	4.05	1794797	5.13	3195384	6.10
680-90723-19	CV1008A-CS	2656851	4.05	1841686	5.13	3182102	6.10
680-90723-20	CV1008B-CS	2539161	4.05	1671166	5.13	2956908	6.10
680-90723-A-24-B MS		2586644	4.05	1766691	5.13	3154823	6.10
680-90723-A-24-D MSD		2605247	4.05	1722476	5.13	2880956	6.10

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2979

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5836553	8.07	5791367	9.41		
UPPER LIMIT		11673106	8.57	11582734	9.91		
LOWER LIMIT		2918277	7.57	2895684	8.91		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90723-2	CV1113A-CS	3337439	8.06	3149409	9.40		
680-90723-3	CV1113B-CS	3241027	8.06	3156087	9.40		
680-90723-4	CV1163A-CS	3422498	8.06	3291206	9.40		
680-90723-5	CV1163B-CS	3408765	8.06	3270923	9.40		
680-90723-6	CV1347A-CS	3437656	8.07	3292064	9.40		
680-90723-7	CV1347B-CS	3181561	8.07	3025133	9.40		
680-90723-8	CV1347C-CS	3120868	8.07	3155720	9.40		
680-90723-9	CV0978A-CS	3237758	8.07	3244568	9.40		
680-90723-10	CV0978A-CSD	3261458	8.06	3278492	9.40		
680-90723-11	CV0978B-CS	3148924	8.06	3141823	9.40		
680-90723-12	CV0978B-CSD	3154637	8.07	3142183	9.40		
MB 660-137991/1-A		3347505	8.06	3307771	9.40		
LCS 660-137991/2-A		3508337	8.06	3331650	9.40		
680-90723-13	CV0978C-CS	3303334	8.06	3349506	9.40		
680-90723-14	CV0978D-CS	2944708	8.06	3076887	9.40		
680-90723-15	CV0978E-CS	3325454	8.07	3111459	9.40		
680-90723-16	CV0978F-CS	3341571	8.07	3325187	9.41		
680-90723-17	CV0978G-CS	3332199	8.07	3375861	9.41		
680-90723-18	CV0978H-CS	3081128	8.07	3104861	9.40		
680-90723-19	CV1008A-CS	3180651	8.07	3086150	9.40		
680-90723-20	CV1008B-CS	3095636	8.07	3047008	9.40		
680-90723-A-24-B MS		3223545	8.07	3044054	9.41		
680-90723-A-24-D MSD		2967941	8.07	3072963	9.40		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2984

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2984

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3550475	6.28	1958003	7.95	3275219	9.20
UPPER LIMIT		7100950	6.78	3916006	8.45	6550438	9.70
LOWER LIMIT		1775238	5.78	979002	7.45	1637610	8.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137975/1-A		3456782	6.27	1935400	7.95	3051369	9.20
LCS 660-137975/2-A		3727808	6.28	2062640	7.94	3267982	9.20
680-90723-1	CV1075A-CS	3346994	6.28	1819729	7.95	2932150	9.20
680-90723-1 MS	CV1075A-CS MS	3329719	6.28	1830171	7.94	2906466	9.20
680-90723-1 MSD	CV1075A-CS MSD	3354388	6.28	1866655	7.94	2984919	9.20

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

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

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

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

Calibration ID: 2984

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3125523	11.57	3123612	13.47		
UPPER LIMIT		6251046	12.07	6247224	13.97		
LOWER LIMIT		1562762	11.07	1561806	12.97		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137975/1-A		2809734	11.56	3127100	13.47		
LCS 660-137975/2-A		2981539	11.56	3229027	13.47		
680-90723-1	CV1075A-CS	2645158	11.57	2947739	13.48		
680-90723-1 MS	CV1075A-CS MS	2640914	11.57	2937416	13.48		
680-90723-1 MSD	CV1075A-CS MSD	2748534	11.57	2860803	13.48		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1075A-CS | Lab Sample ID: 680-90723-1

Matrix: Solid | Lab File ID: 1DF03023.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:05

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

Sample wt/vol: 15.04(g) | Date Analyzed: 06/03/2013 20:41

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	76	J	200	25
120-12-7	Anthracene	130		42	21
56-55-3	Benzo[a]anthracene	370		40	19
50-32-8	Benzo[a]pyrene	360		51	26
205-99-2	Benzo[b]fluoranthene	610		60	30
191-24-2	Benzo[g,h,i]perylene	250		99	22
207-08-9	Benzo[k]fluoranthene	180		40	18
218-01-9	Chrysene	480		45	22
53-70-3	Dibenz(a,h)anthracene	94	J	99	20
206-44-0	Fluoranthene	670		99	20
86-73-7	Fluorene	33	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	260		99	35
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	240		200	35
91-20-3	Naphthalene	180	J	200	22
85-01-8	Phenanthrene	620	B	40	19
129-00-0	Pyrene	580		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	103		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03023.D
Lab Smp Id: 680-90723-A-1-A Client Smp ID: CV1075A-CS
Inj Date : 03-JUN-2013 20:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90723-a-1-a
Misc Info : 680-90723-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	19.335	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.277	6.278	(1.000)	3346994	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1819729	40.0000	
*	11 Phenanthrene-d10	188	9.203	9.204	(1.000)	2932150	40.0000	
$	15 o-Terphenyl	230	9.509	9.509	(1.033)	110882	2.58125	850
*	19 Chrysene-d12	240	11.565	11.566	(1.000)	2645158	40.0000	
*	24 Perylene-d12	264	13.475	13.469	(1.000)	2947739	40.0000	
	2 Naphthalene	128	6.295	6.295	(1.003)	44015	0.53327	180
	3 2-Methylnaphthalene	142	6.994	6.995	(1.114)	38011	0.72328	240
	4 1-Methylnaphthalene	142	7.088	7.089	(1.129)	36220	0.66946	220
	5 1,1'-Biphenyl	154	7.429	7.429	(0.935)	7253	0.11797	39
	6 Acenaphthylene	152	7.816	7.817	(0.984)	17341	0.22984	76
	9 Dibenzofuran	168	8.116	8.117	(1.021)	21080	0.31942	100
	10 Fluorene	166	8.410	8.411	(1.058)	5460	0.10082	33
	12 Phenanthrene	178	9.215	9.221	(1.001)	149928	1.88797	620

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.256	9.263	(1.006)	29539	0.38337	130
16 Fluoranthene	202	10.202	10.203	(1.109)	165079	2.03195	670
17 Pyrene	202	10.390	10.391	(0.898)	136856	1.76716	580
18 Benzo(a)anthracene	228	11.547	11.548	(0.998)	87636	1.11635	370
20 Chrysene	228	11.589	11.595	(1.002)	102460	1.44943	480
21 Benzo(b)fluoranthene	252	12.905	12.911	(0.958)	135817	1.83916	610
22 Benzo(k)fluoranthene	252	12.934	12.946	(0.960)	41703	0.53927	180
23 Benzo(a)pyrene	252	13.369	13.375	(0.992)	72831	1.09468	360
25 Indeno(1,2,3-cd)pyrene	276	15.108	15.120	(1.121)	48051	0.77517	260(M)
26 Dibenzo(a,h)anthracene	278	15.137	15.162	(1.123)	14917	0.28371	94
27 Benzo(g,h,i)perylene	276	15.584	15.602	(1.157)	50674	0.75709	250(H)

QC Flag Legend

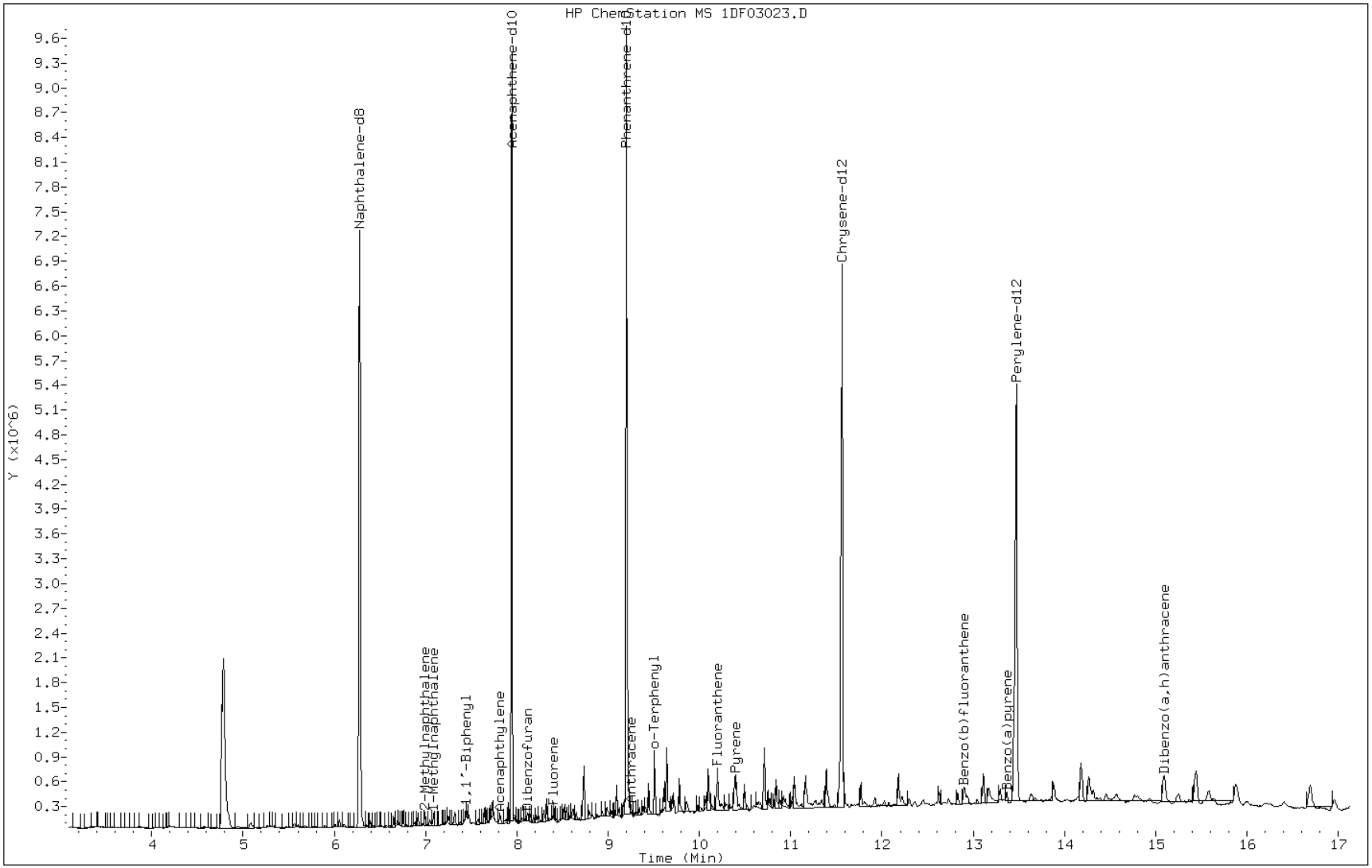
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC



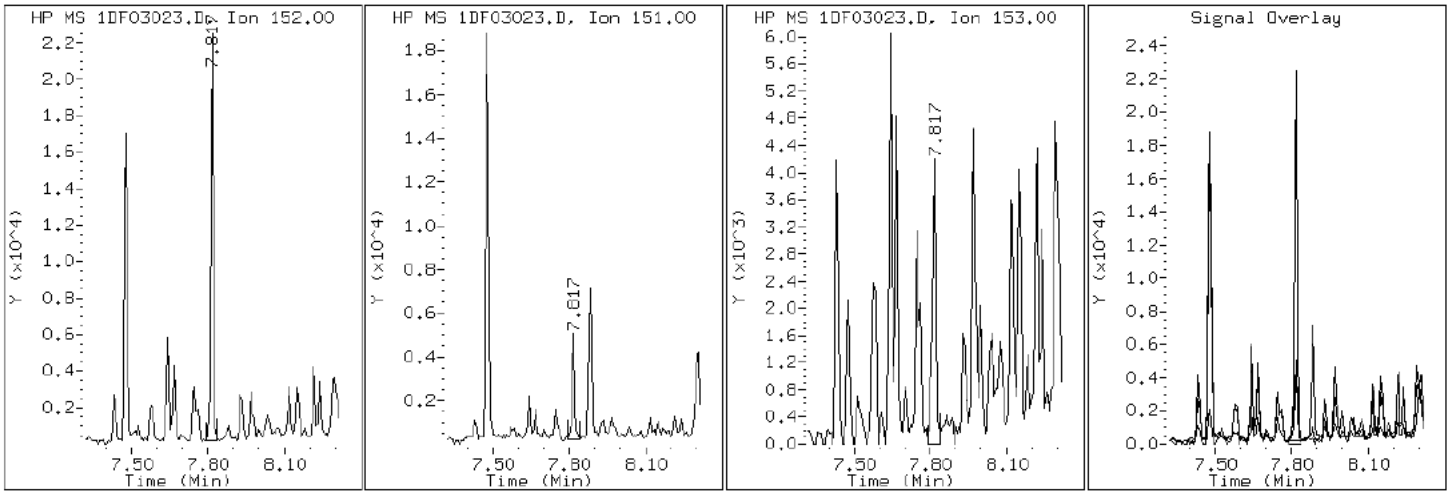
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

6 Acenaphthylene



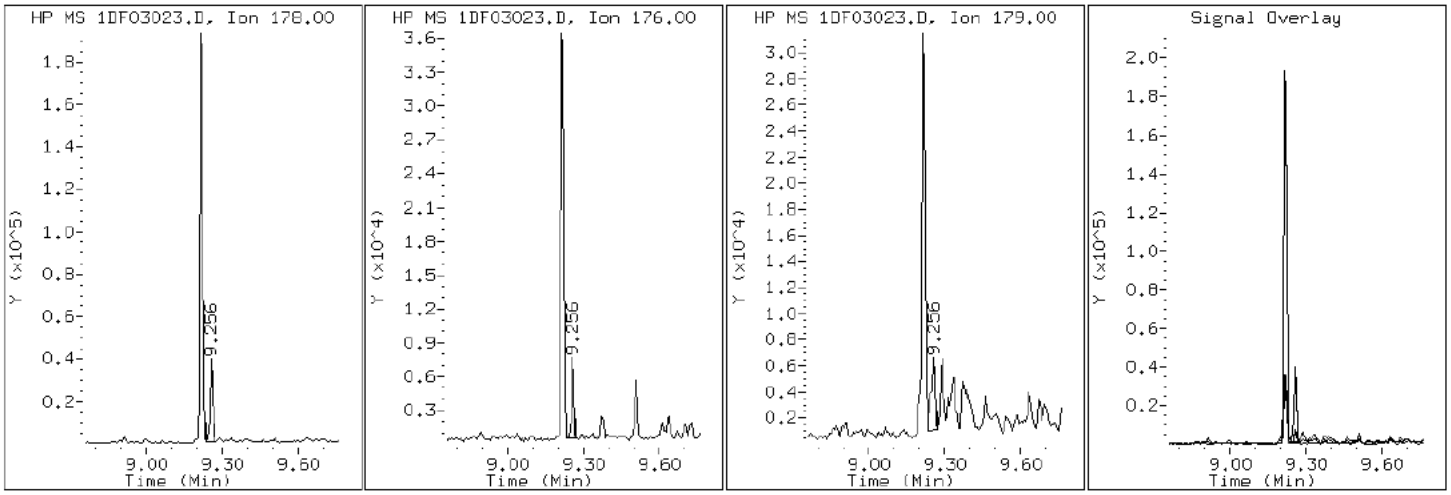
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

13 Anthracene



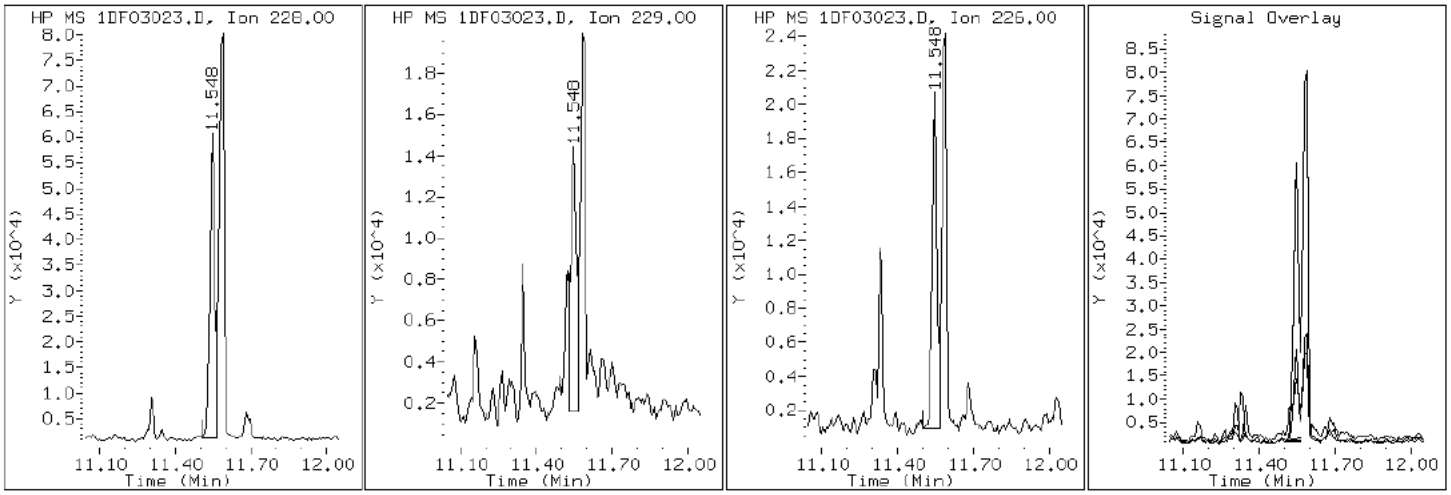
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

18 Benzo(a)anthracene



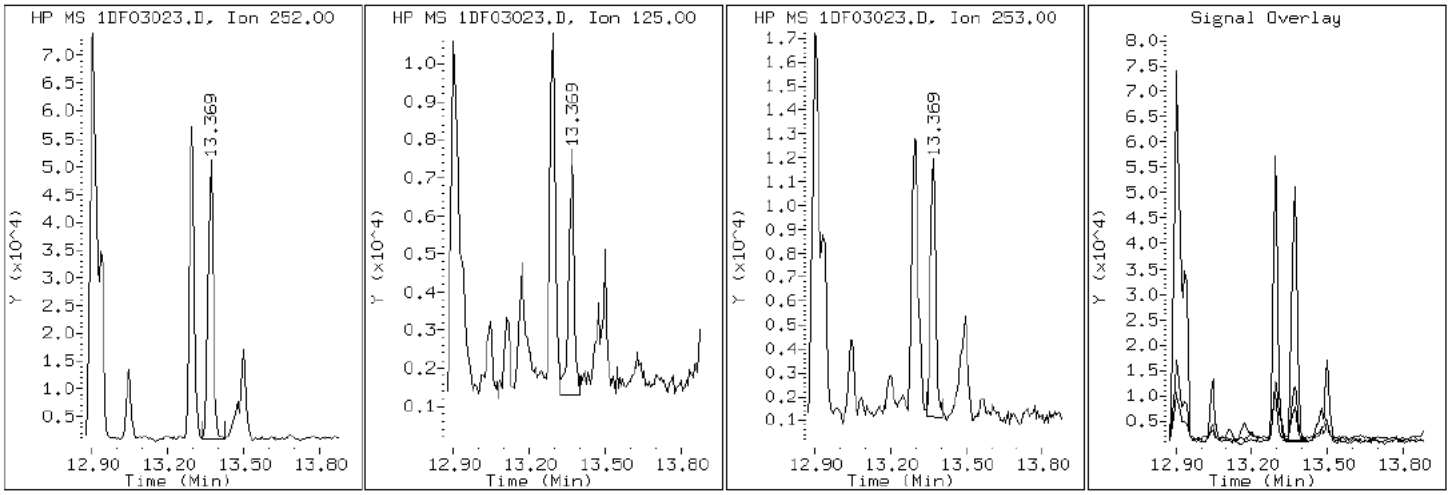
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

23 Benzo(a)pyrene



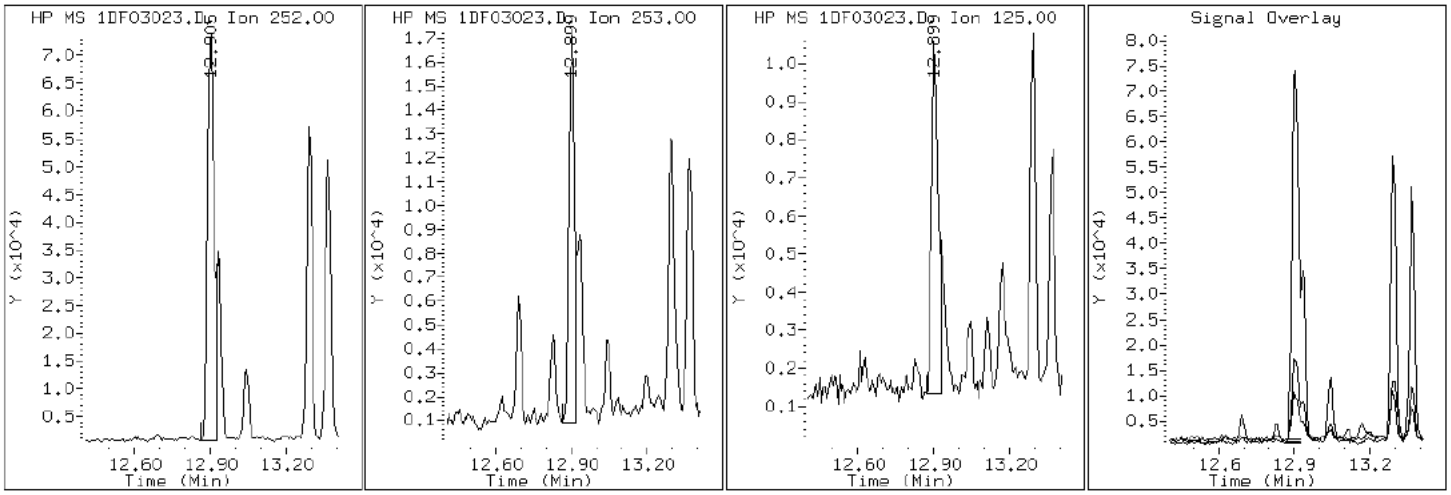
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

21 Benzo(b)fluoranthene



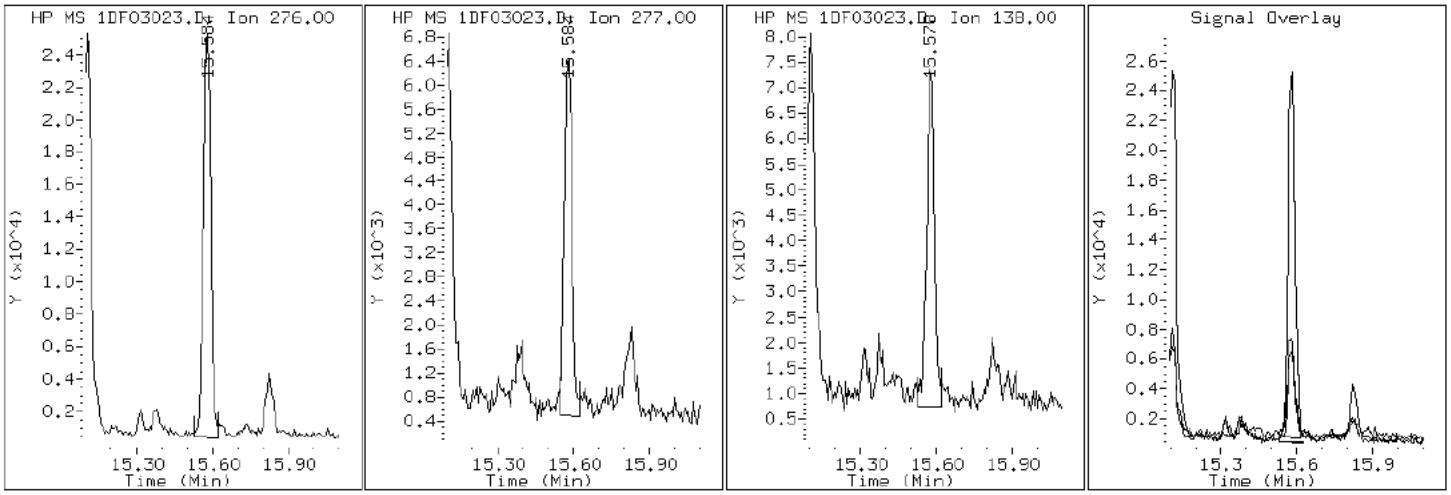
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

27 Benzo(g,h,i)perylene



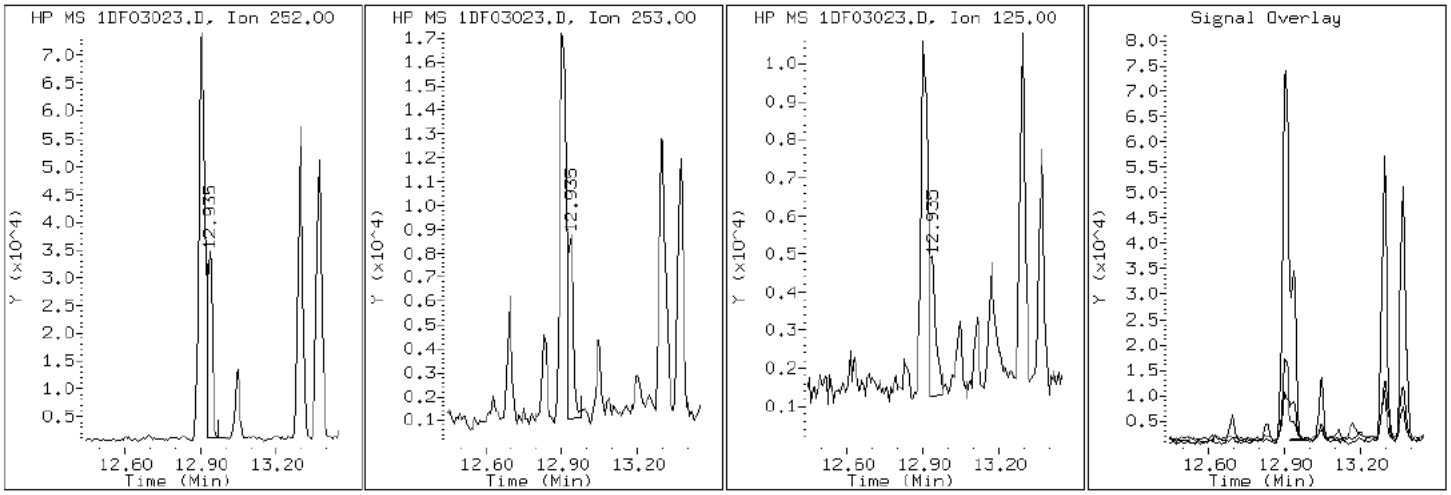
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

22 Benzo(k)fluoranthene



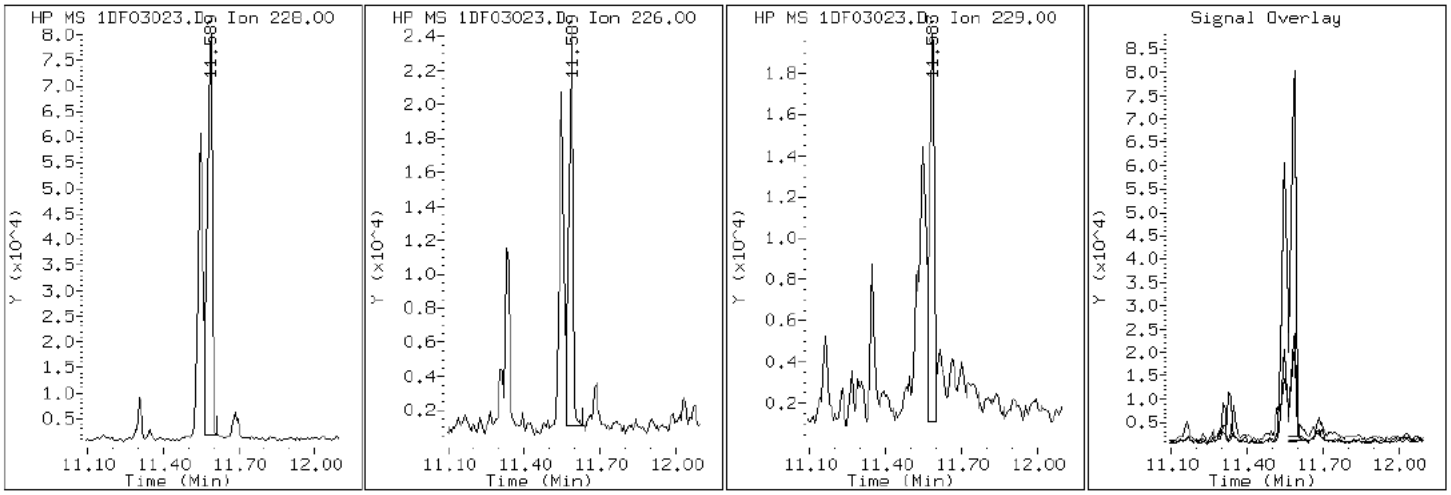
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

20 Chrysene



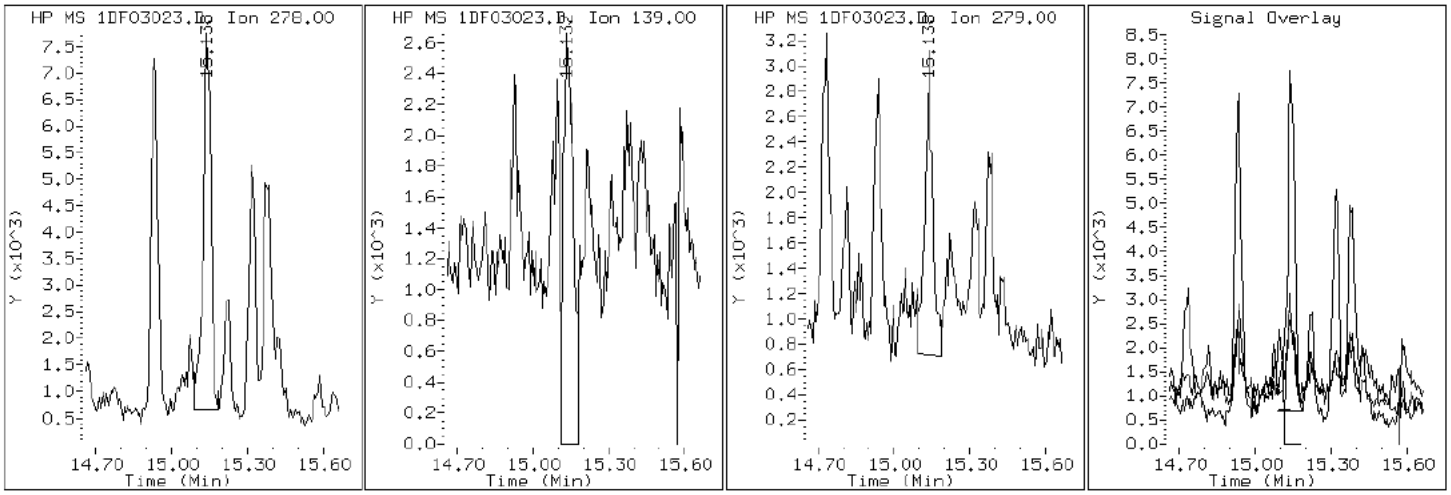
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

26 Dibenzo(a,h)anthracene



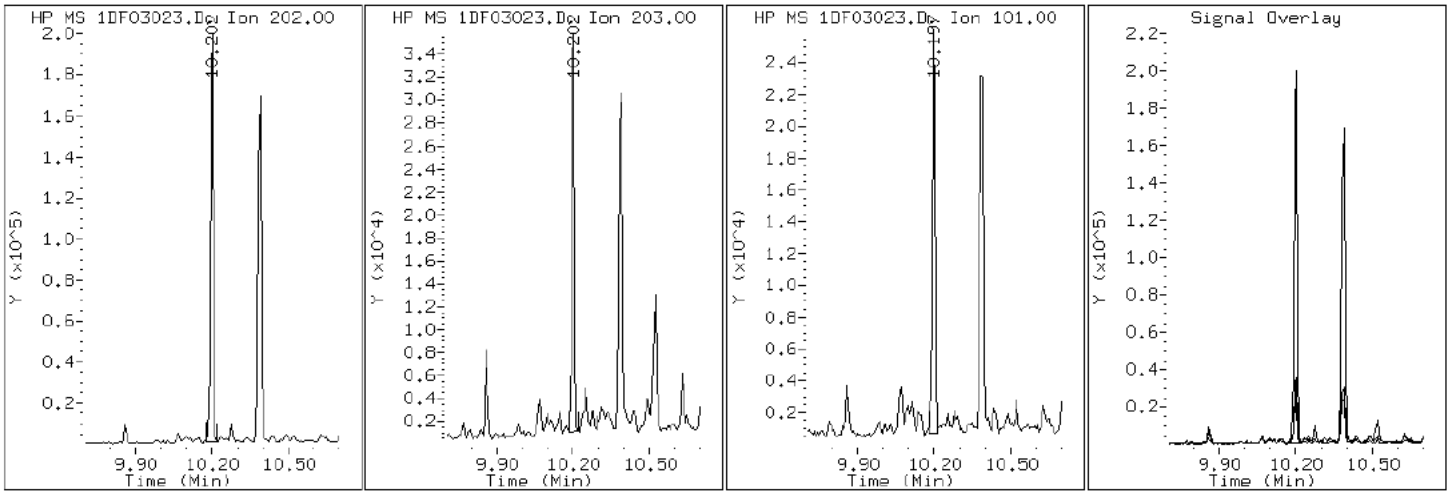
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

16 Fluoranthene



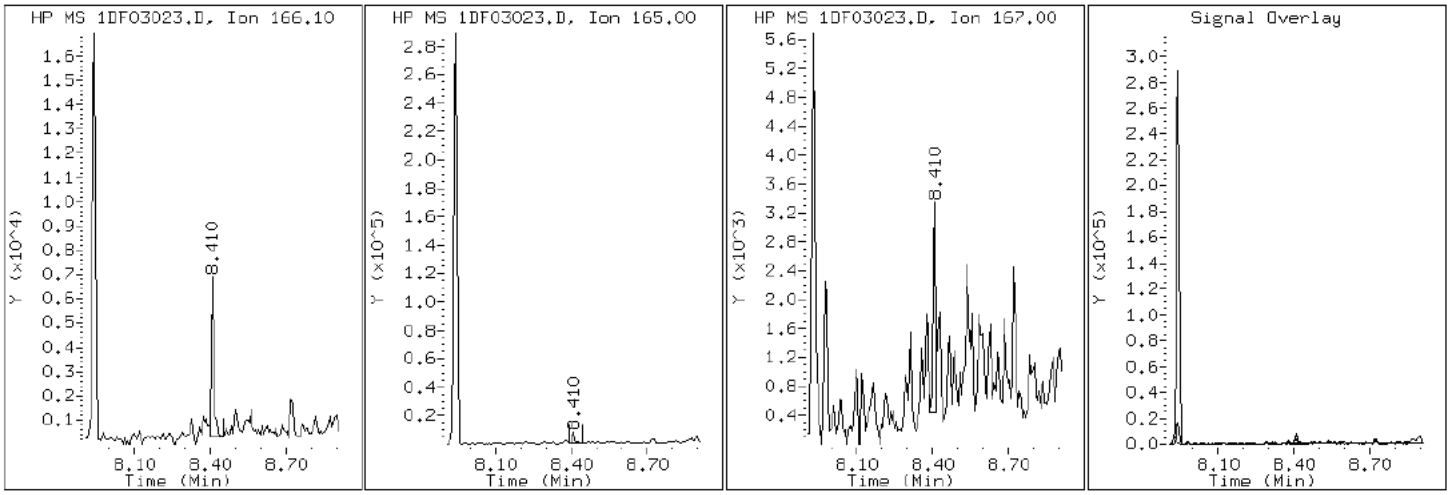
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

10 Fluorene



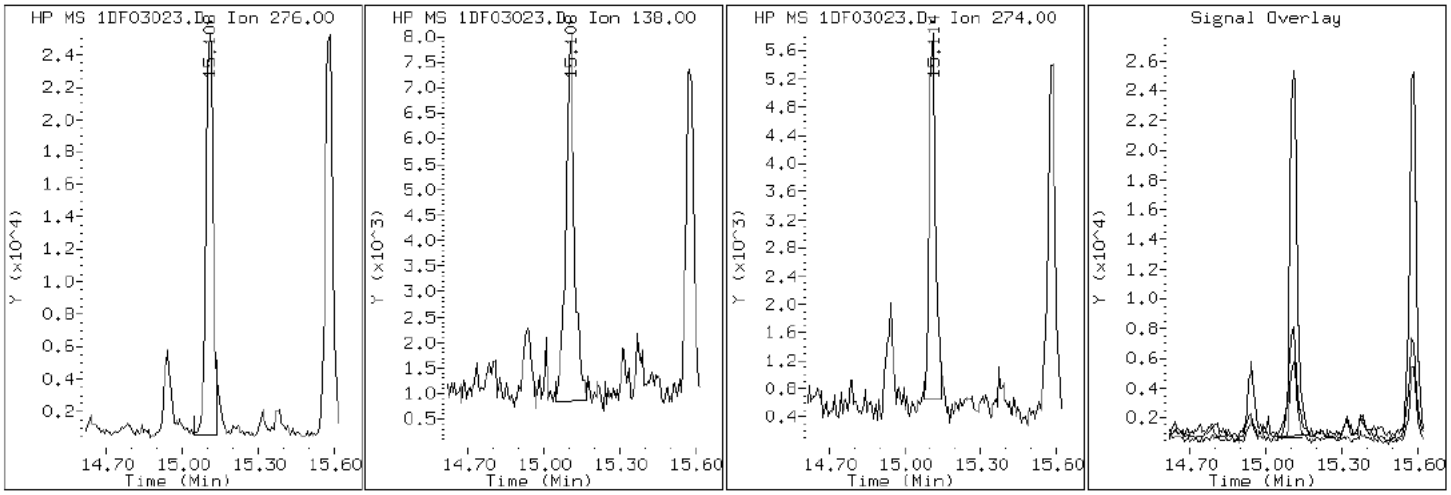
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

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



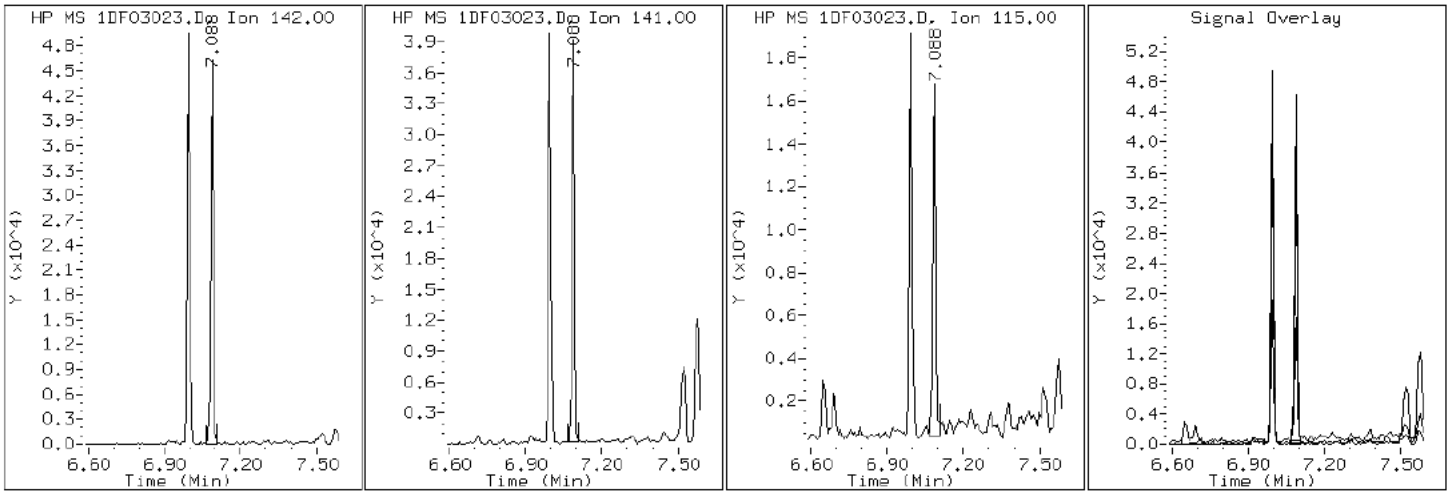
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

4 1-Methylnaphthalene



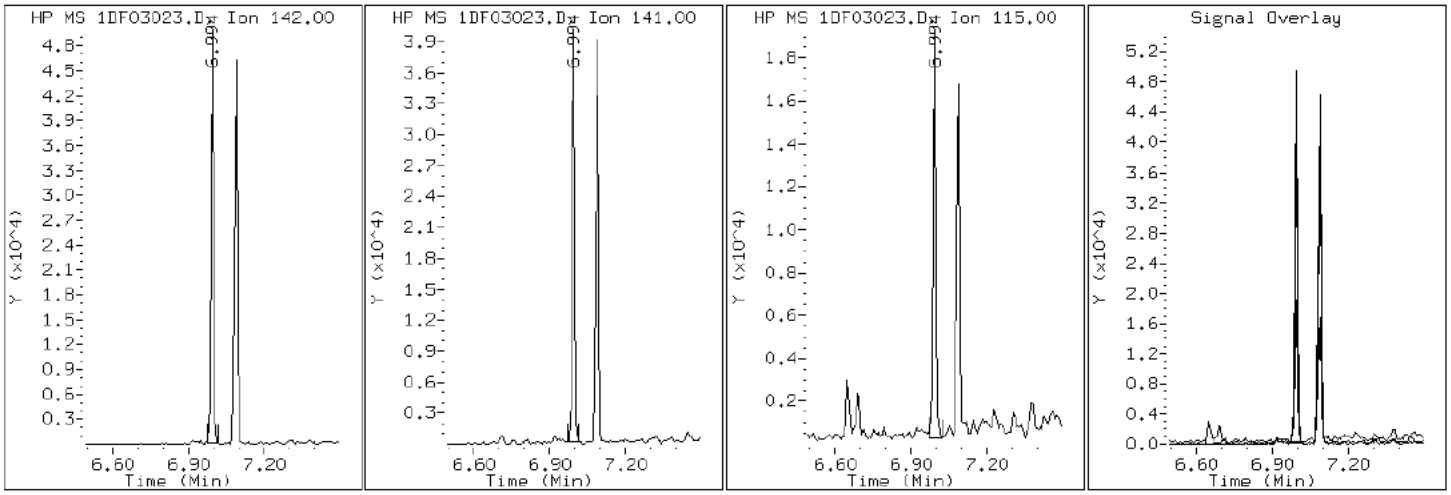
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

3 2-Methylnaphthalene



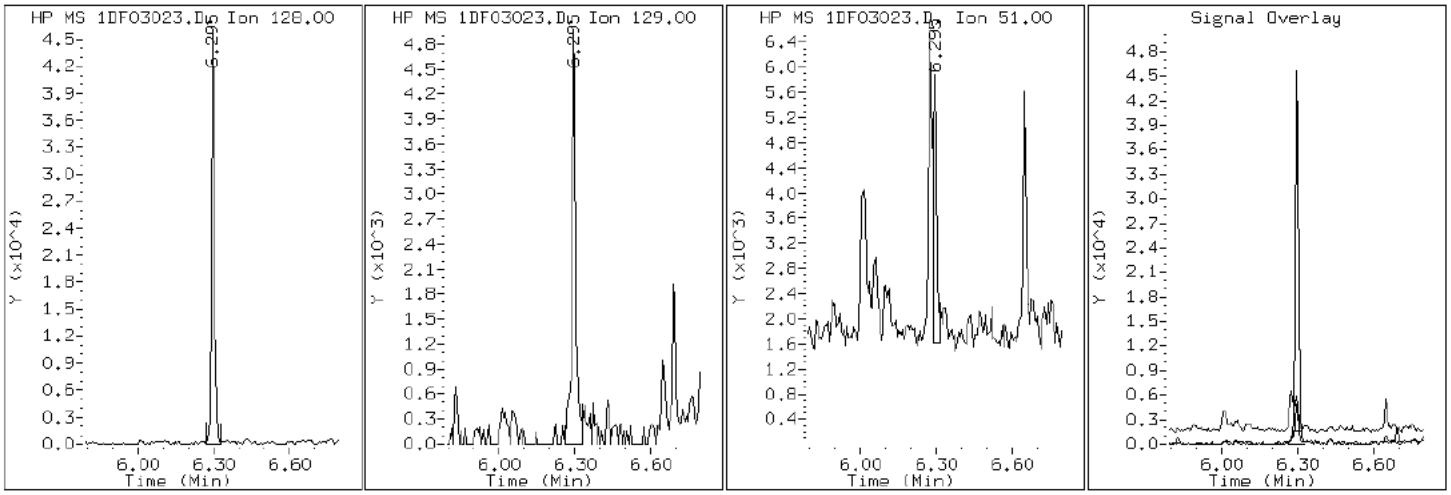
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

2 Naphthalene



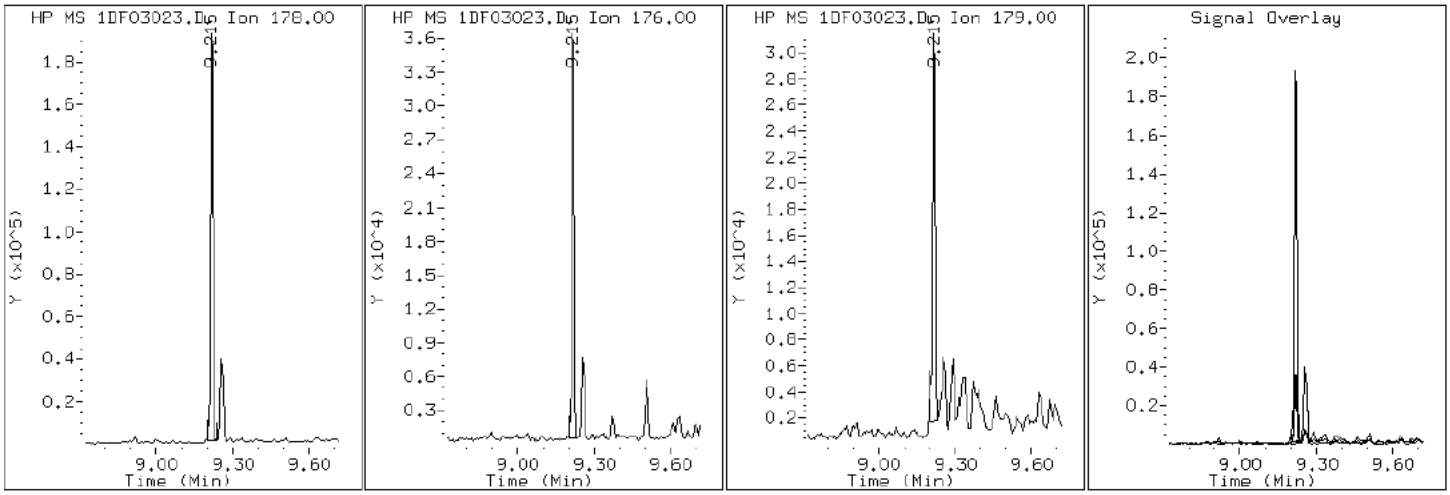
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

12 Phenanthrene



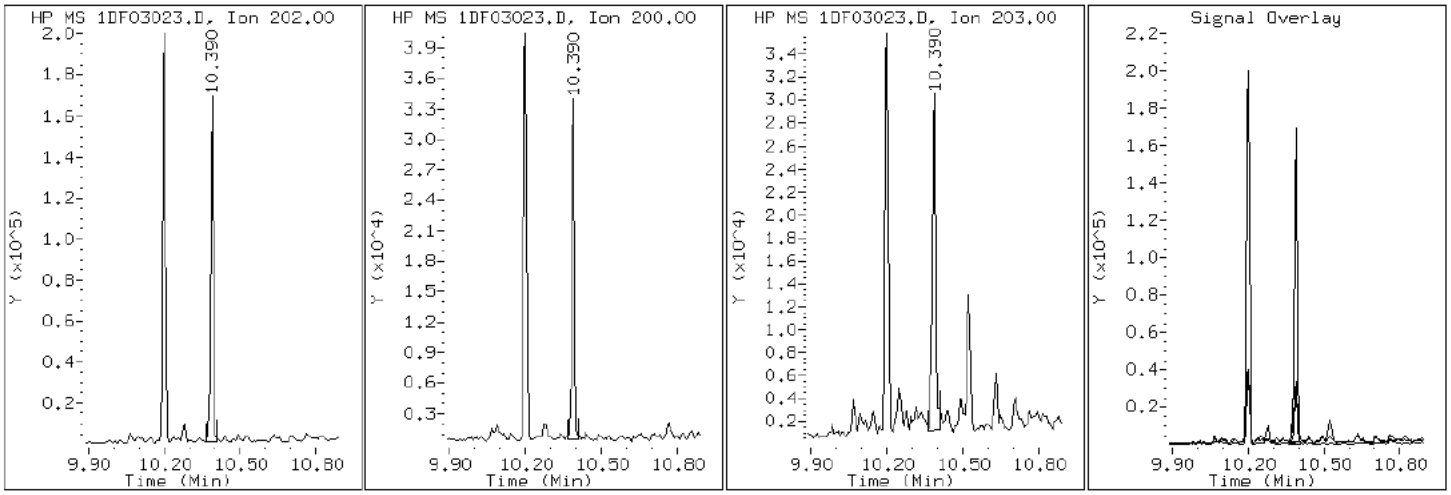
Data File: 1DF03023.D

Date: 03-JUN-2013 20:41

Client ID: CV1075A-CS Instrument: BSMSD.i

Sample Info: 680-90723-a-1-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1DF03023.D
Inj. Date and Time: 03-JUN-2013 20:41
Instrument ID: BSMSD.i
Client ID: CV1075A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

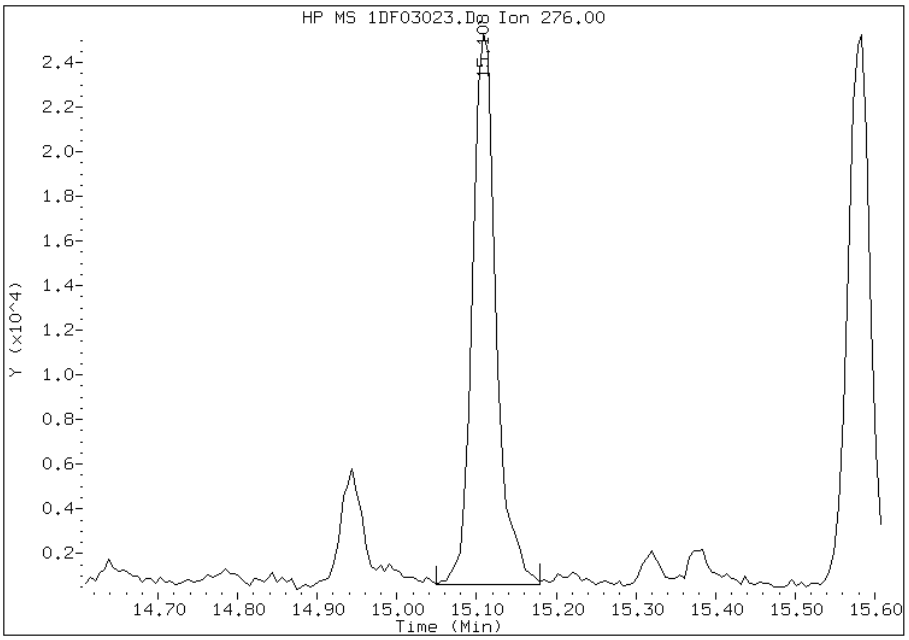
Processing Integration Results

RT: 15.11

Response: 50850

Amount: 1

Conc: 268



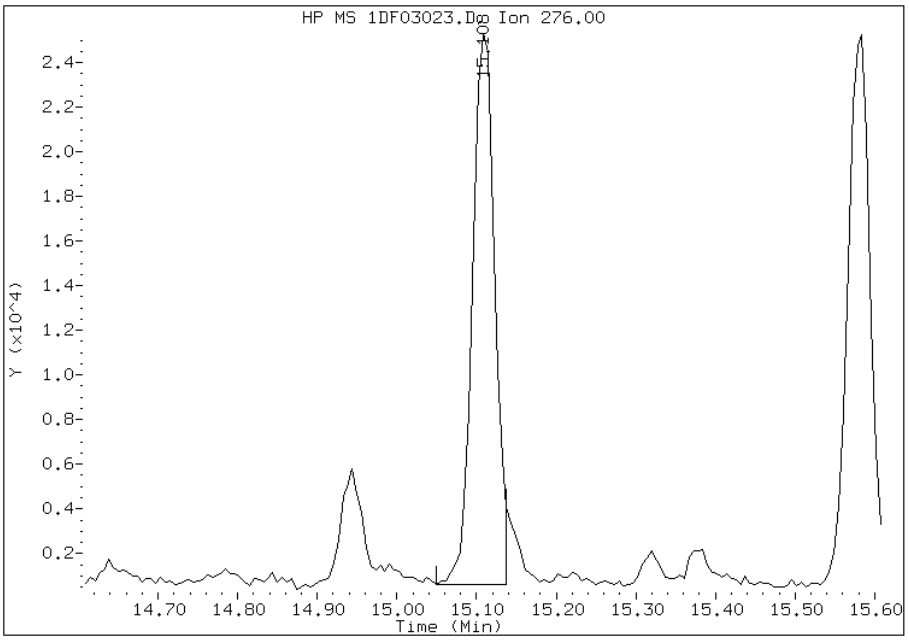
Manual Integration Results

RT: 15.11

Response: 48051

Amount: 1

Conc: 256



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1113A-CS | Lab Sample ID: 680-90723-2

Matrix: Solid | Lab File ID: 1CF04009.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 09:30

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

Sample wt/vol: 15.43(g) | Date Analyzed: 06/04/2013 12:44

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

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

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	33	J	200	25
120-12-7	Anthracene	41		41	21
56-55-3	Benzo[a]anthracene	230		39	19
50-32-8	Benzo[a]pyrene	240		51	26
205-99-2	Benzo[b]fluoranthene	410		60	30
191-24-2	Benzo[g,h,i]perylene	250		98	22
207-08-9	Benzo[k]fluoranthene	120		39	18
218-01-9	Chrysene	260		44	22
53-70-3	Dibenz(a,h)anthracene	34	J	98	20
206-44-0	Fluoranthene	350		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	200		98	35
90-12-0	1-Methylnaphthalene	89	J	200	22
91-57-6	2-Methylnaphthalene	120	J	200	35
91-20-3	Naphthalene	78	J	200	22
85-01-8	Phenanthrene	240	B	39	19
129-00-0	Pyrene	330		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04009.D
Lab Smp Id: 680-90723-A-2-A Client Smp ID: CV1113A-CS
Inj Date : 04-JUN-2013 12:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-2-a
Misc Info : 680-90723-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 9
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.430	Weight Extracted
M	21.041	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2609086	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1835295	40.0000	
*	10 Phenanthrene-d10	188	6.098	6.104	(1.000)	3170653	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.041)	117176	2.37243	778.9096
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3337439	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3149409	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	17539	0.23821	78.2086
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	14531	0.35581	116.8183
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	10895	0.27115	89.0236
	5 Acenaphthylene	152	5.045	5.045	(0.983)	7004	0.09955	32.6836
	9 Fluorene	166	5.474	5.480	(1.066)	2720	0.04832	15.8628(Q)
	11 Phenanthrene	178	6.116	6.121	(1.003)	69863	0.74581	244.8609
	12 Anthracene	178	6.151	6.157	(1.009)	10910	0.12572	41.2744
	13 Carbazole	167	6.257	6.257	(1.026)	7739	0.21032	69.0502

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.143)	102816	1.07382	352.5527
16 Pyrene	202	7.139	7.145	(0.885)	91645	1.01691	333.8682
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	63174	0.68646	225.3778
19 Chrysene	228	8.080	8.092	(1.002)	74408	0.80306	263.6578
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	96009	1.24076	407.3617
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	30458	0.35242	115.7065
22 Benzo(a)pyrene	252	9.333	9.345	(0.992)	49139	0.72172	236.9527
24 Indeno(1,2,3-cd)pyrene	276	10.780	10.792	(1.146)	38235	0.61236	201.0473(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	6996	0.10407	34.1694
26 Benzo(g,h,i)perylene	276	11.198	11.215	(1.191)	56176	0.76779	252.0792

QC Flag Legend

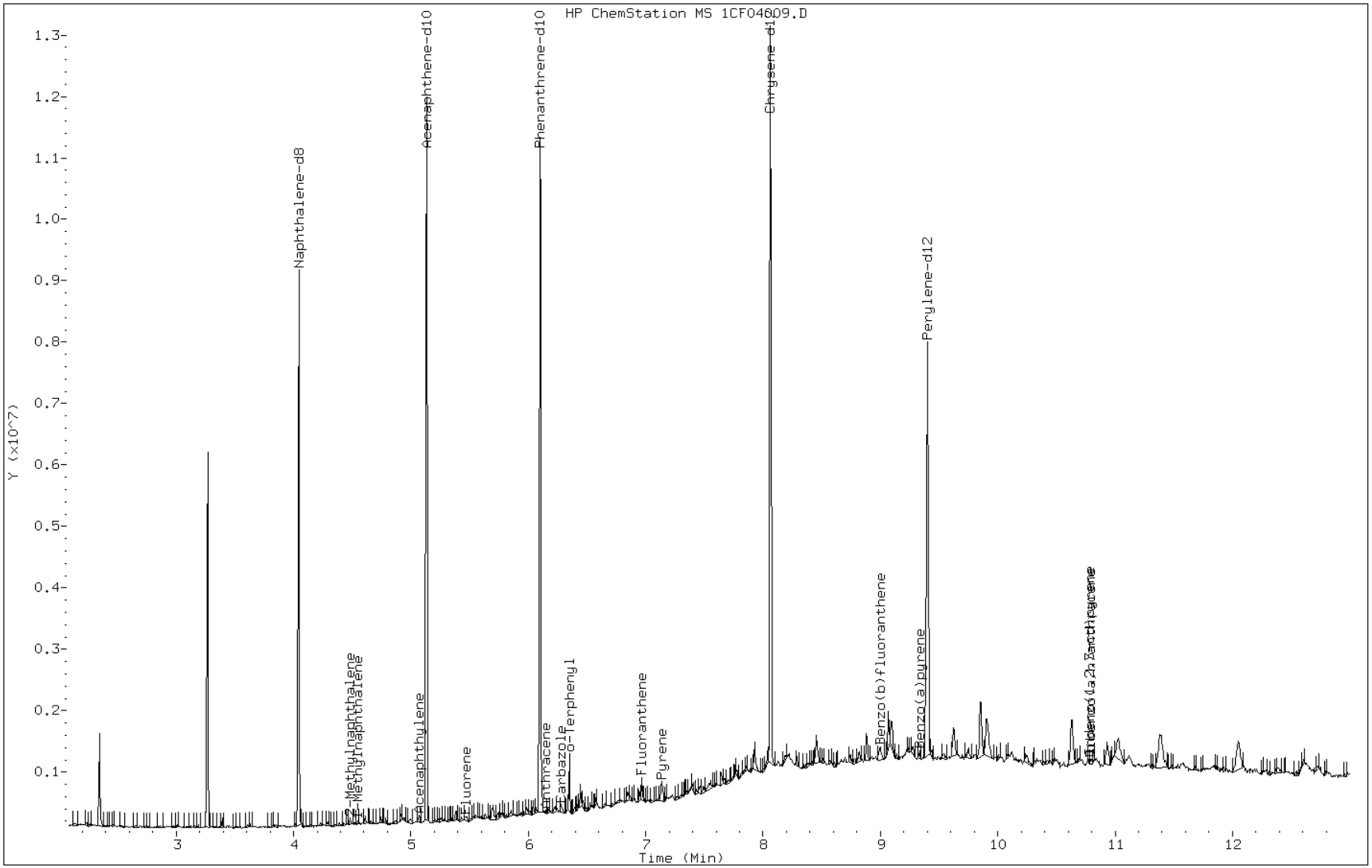
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC



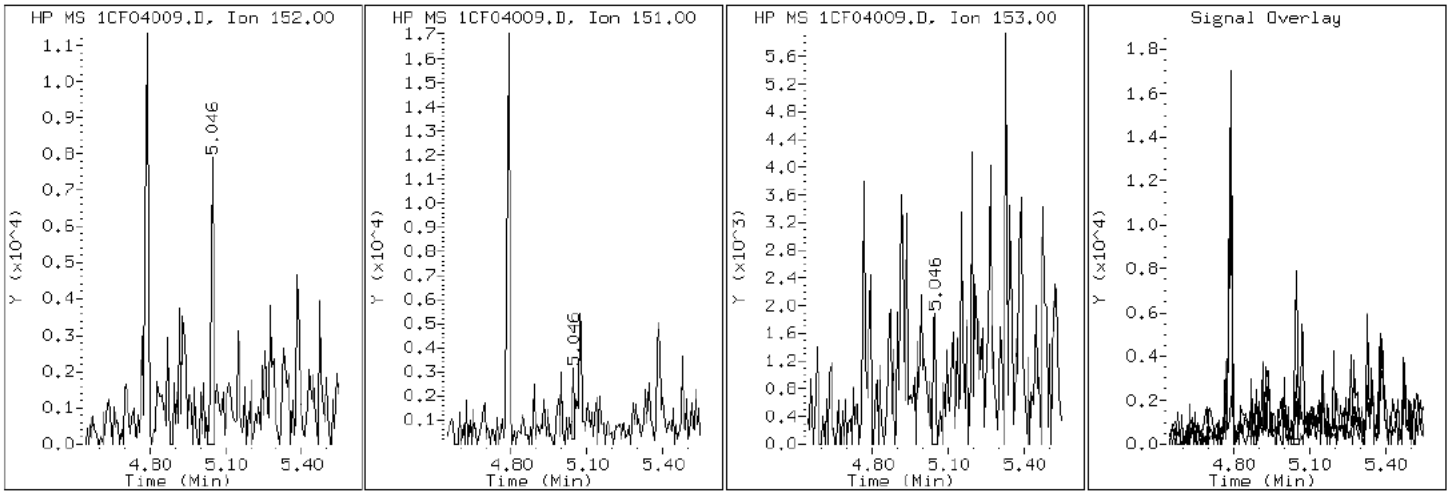
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

5 Acenaphthylene



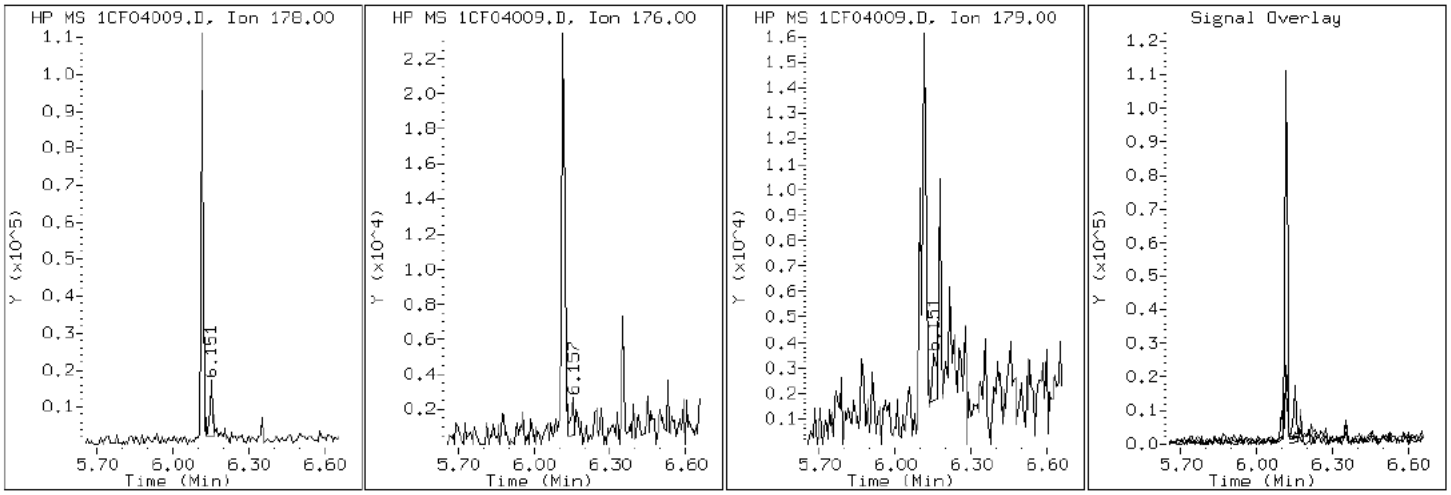
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

12 Anthracene



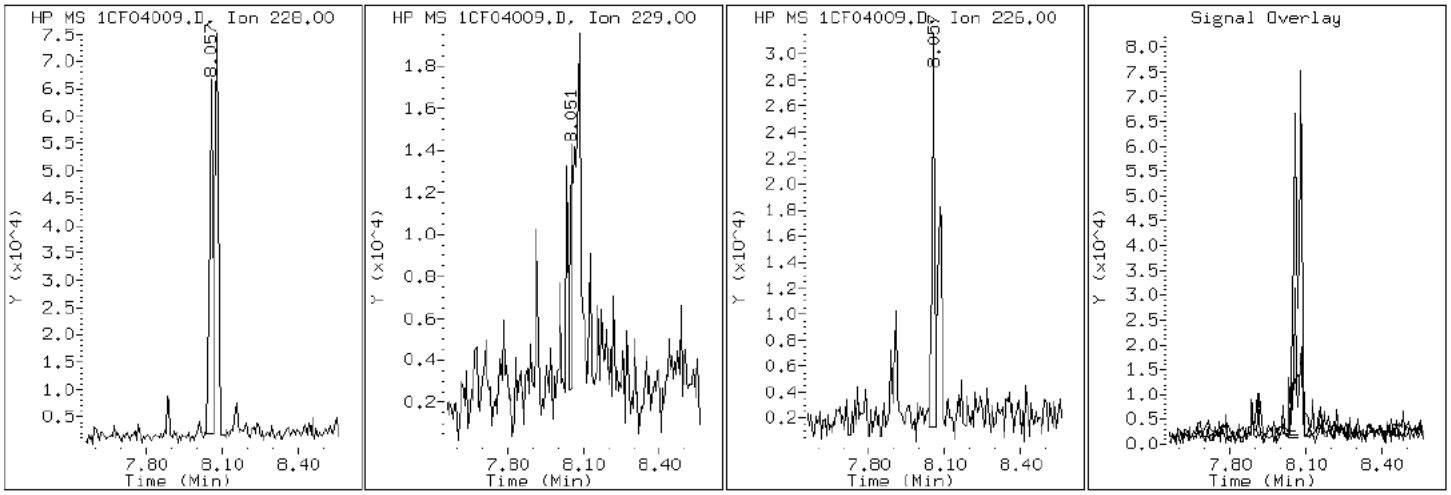
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

17 Benzo(a)anthracene



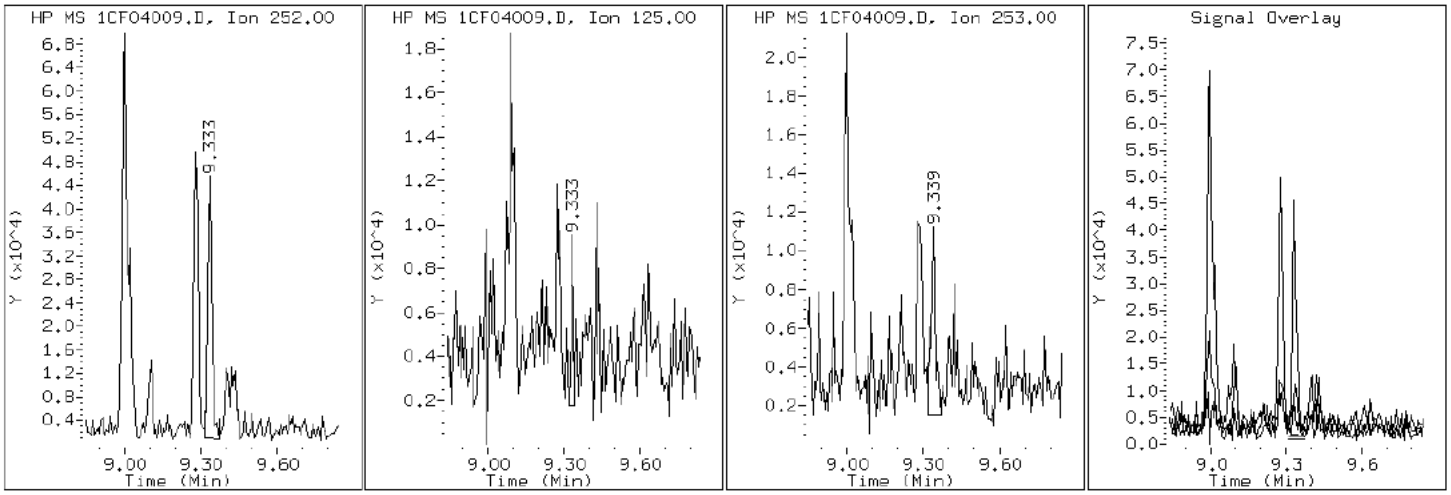
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

22 Benzo(a)pyrene



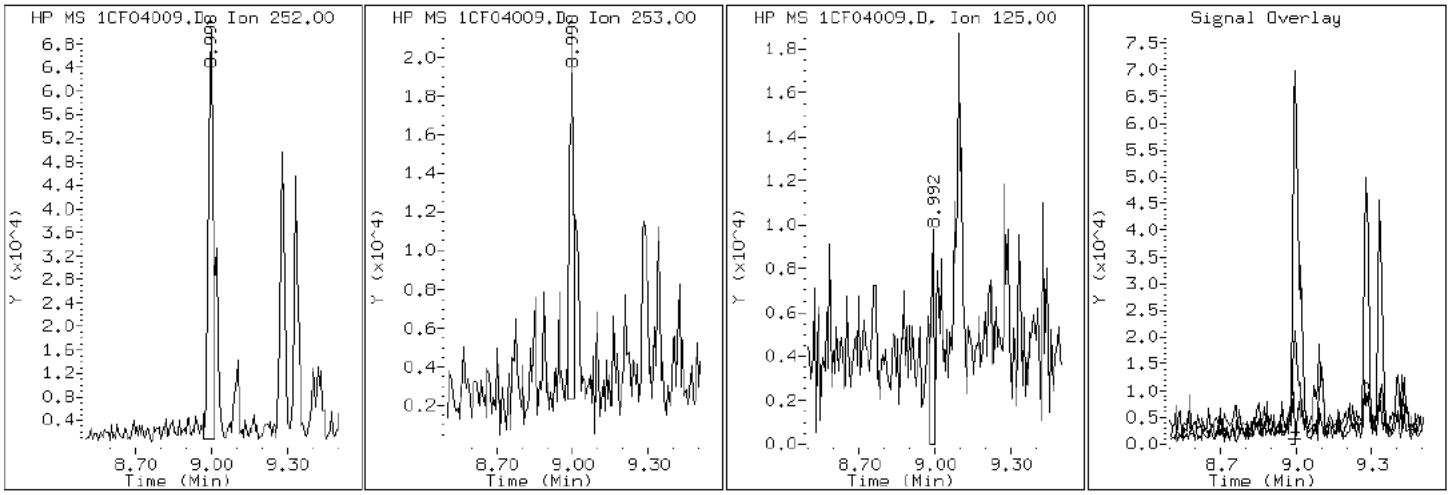
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



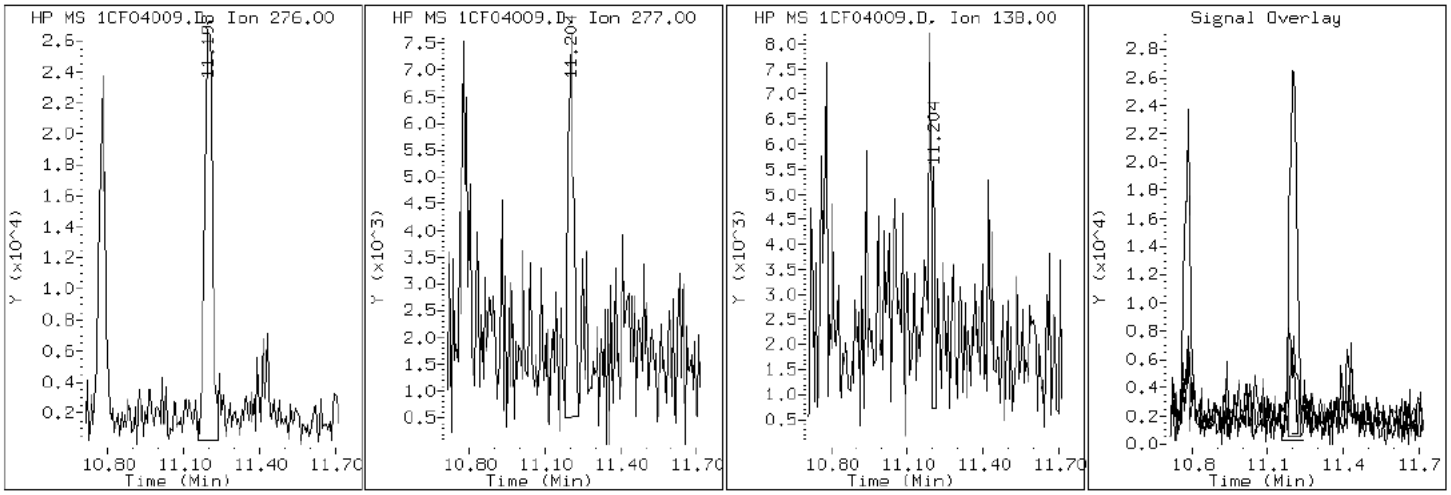
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



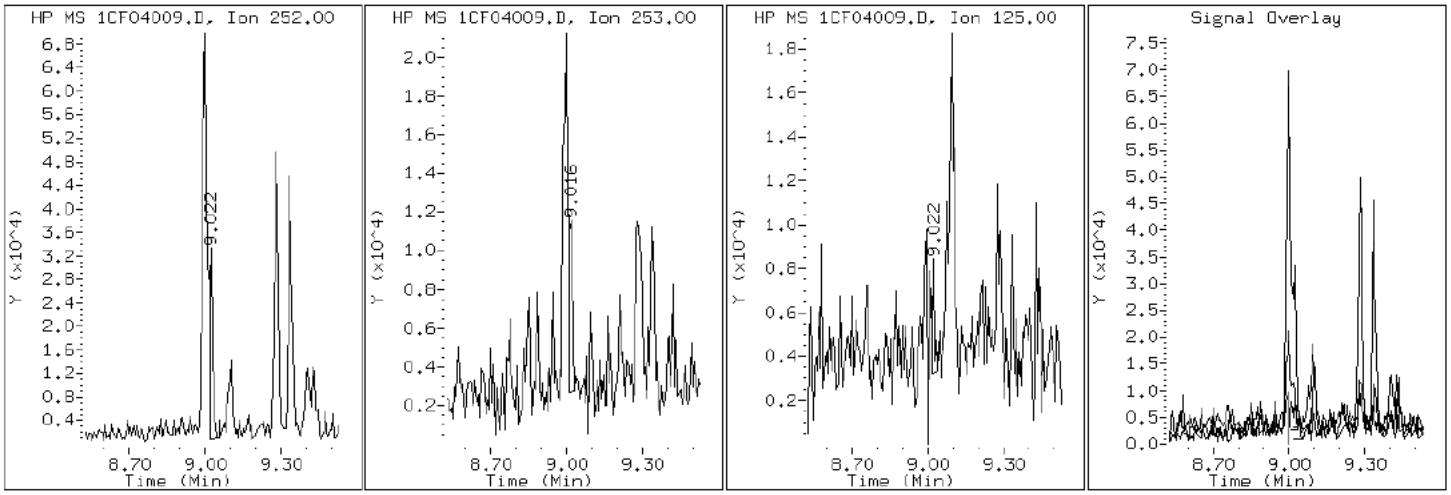
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



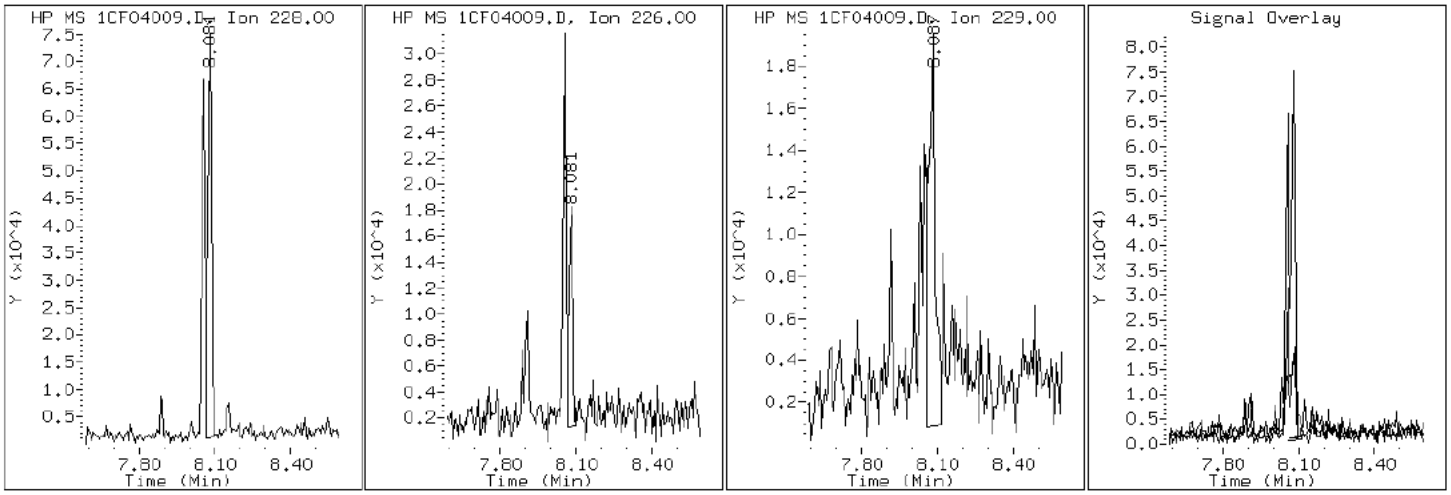
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

19 Chrysene



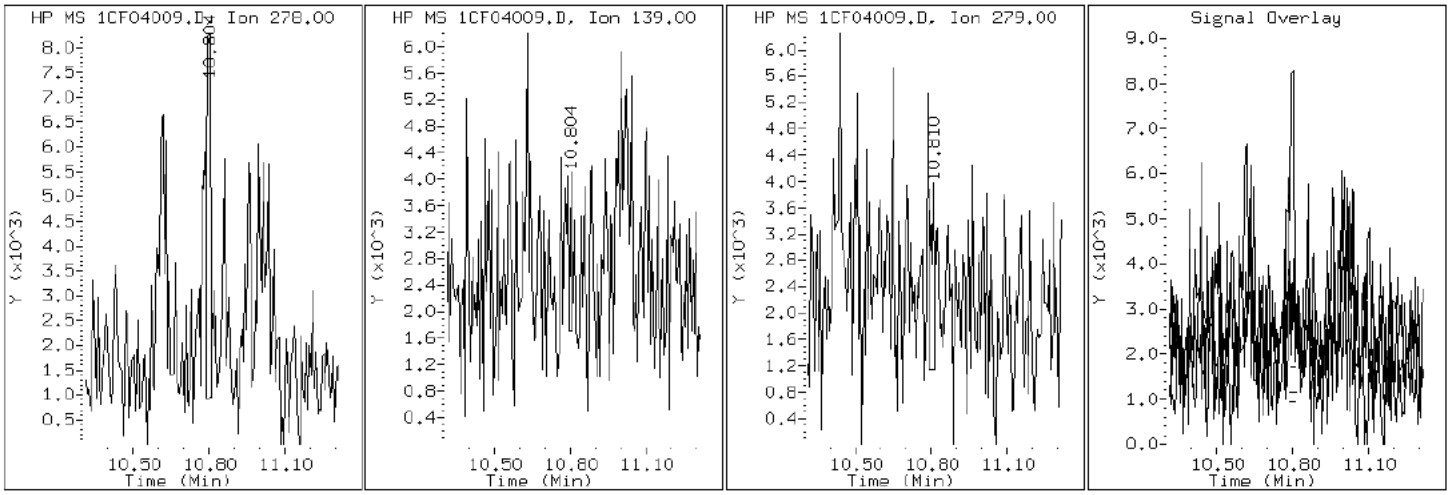
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



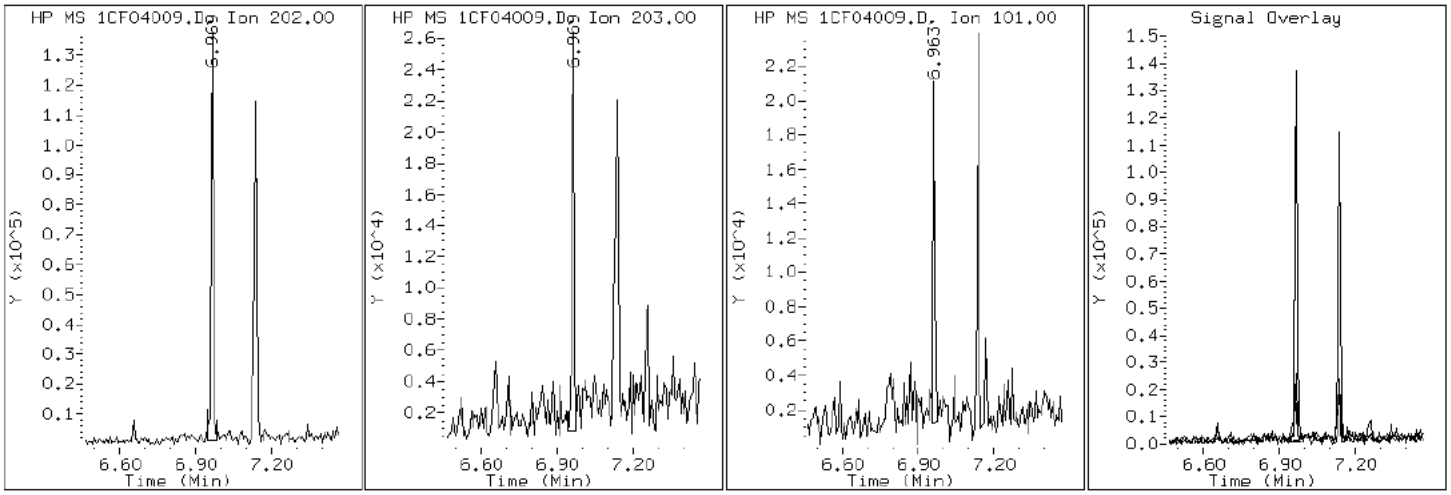
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

15 Fluoranthene



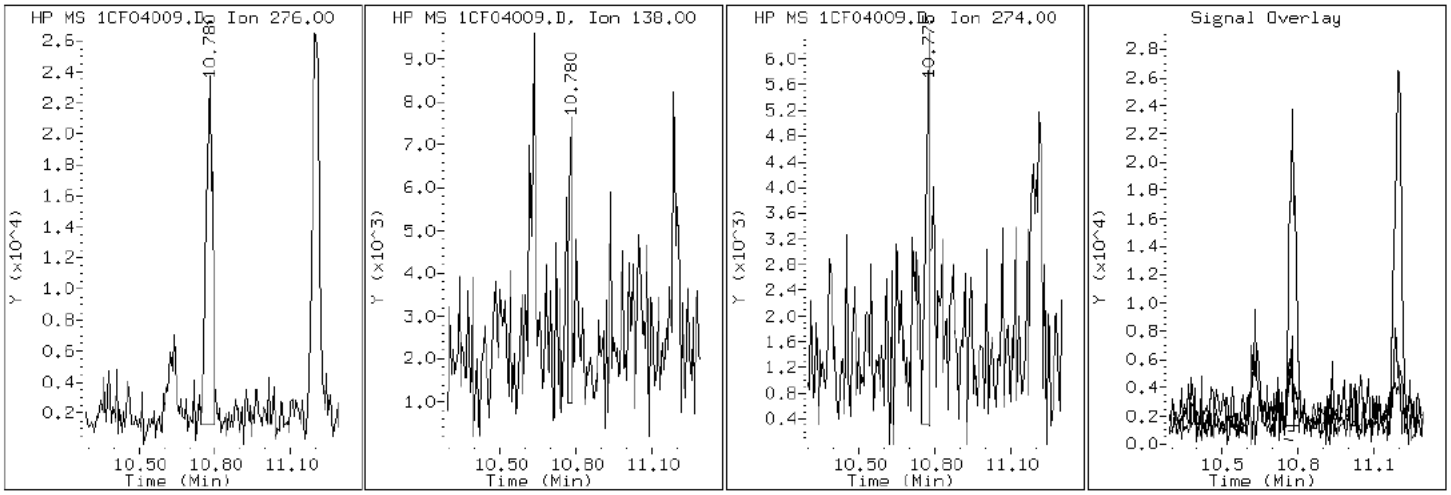
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

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



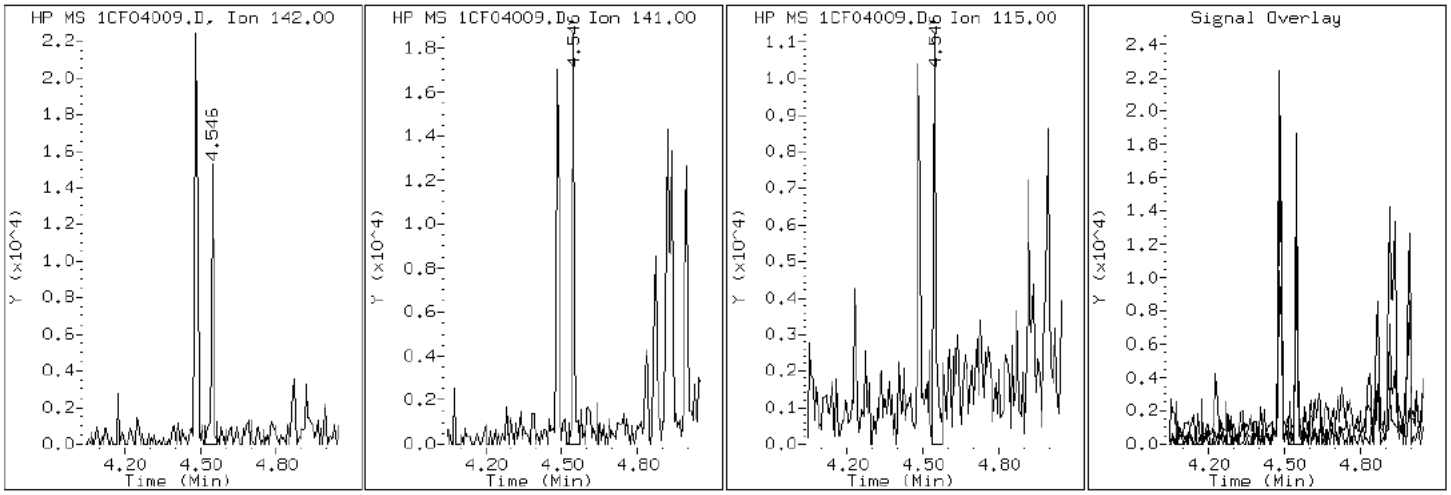
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

4 1-Methylnaphthalene



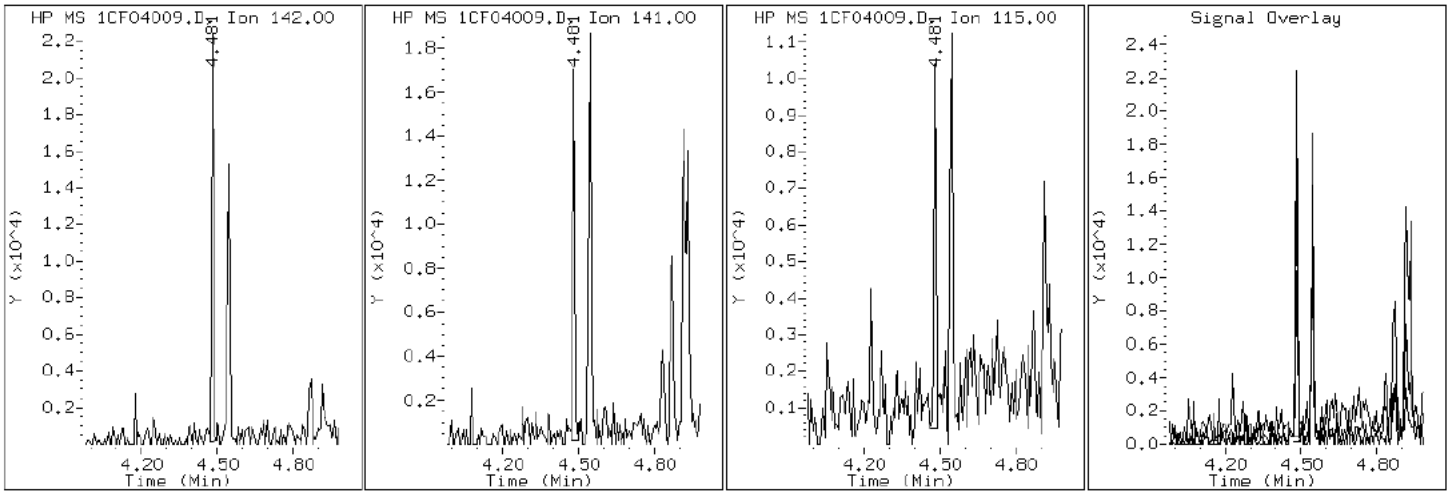
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

3 2-Methylnaphthalene



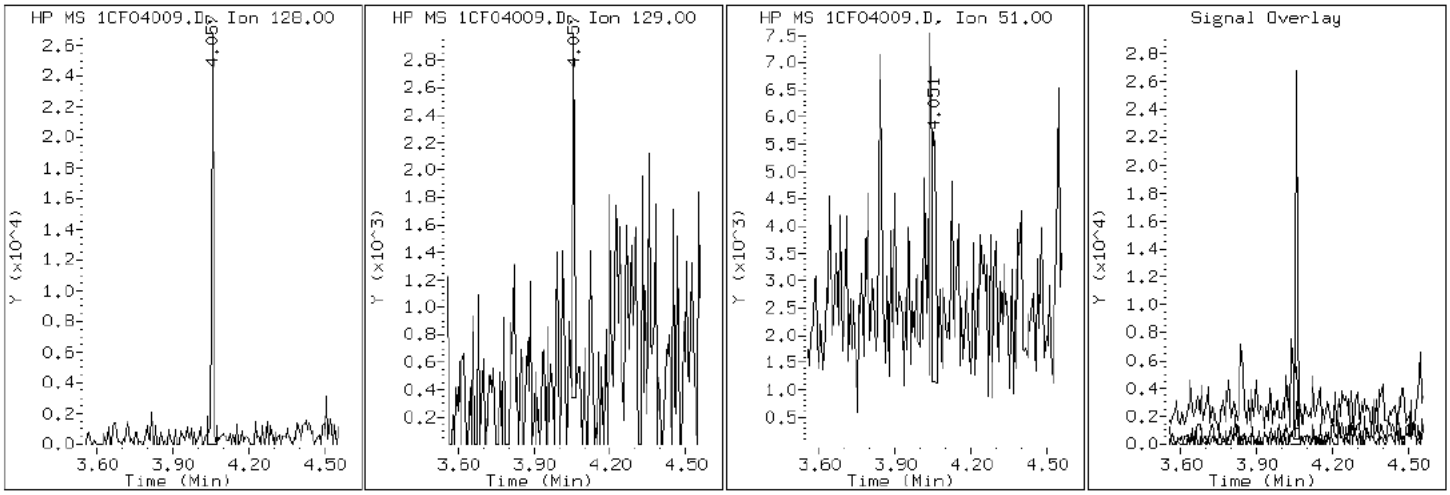
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

2 Naphthalene



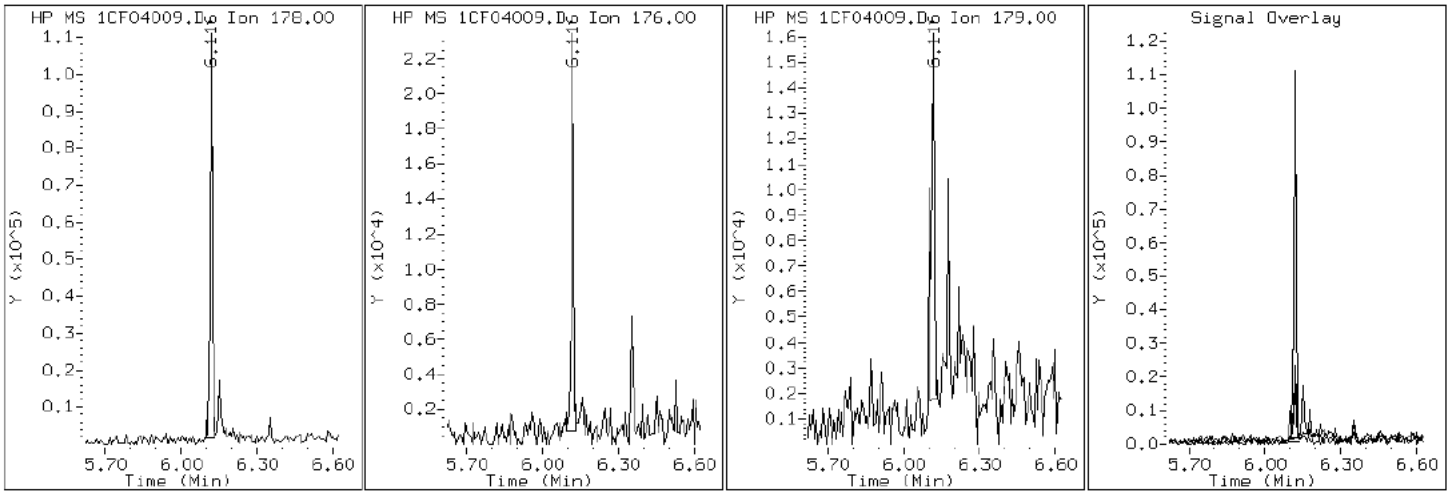
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

11 Phenanthrene



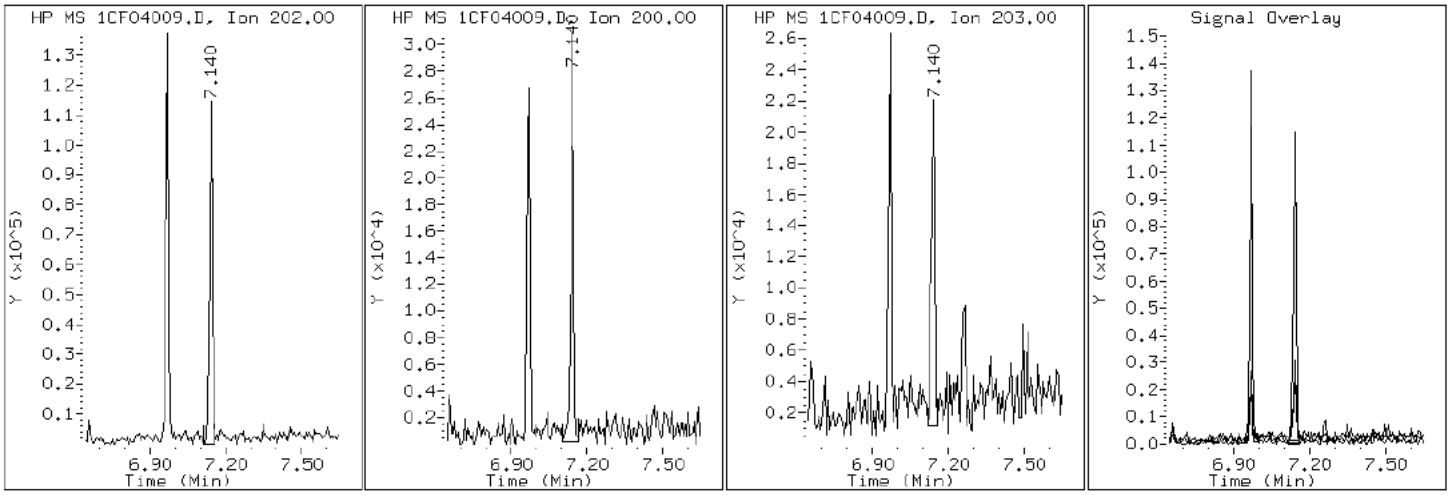
Data File: 1CF04009.D

Date: 04-JUN-2013 12:44

Client ID: CV1113A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04009.D
Inj. Date and Time: 04-JUN-2013 12:44
Instrument ID: BSMC5973.i
Client ID: CV1113A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

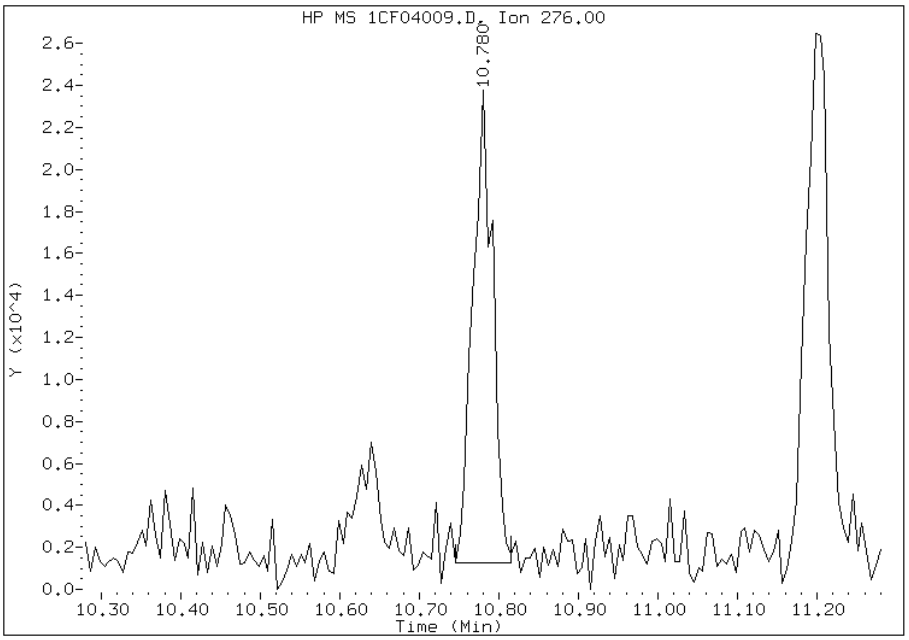
Processing Integration Results

RT: 10.78

Response: 38708

Amount: 1

Conc: 203



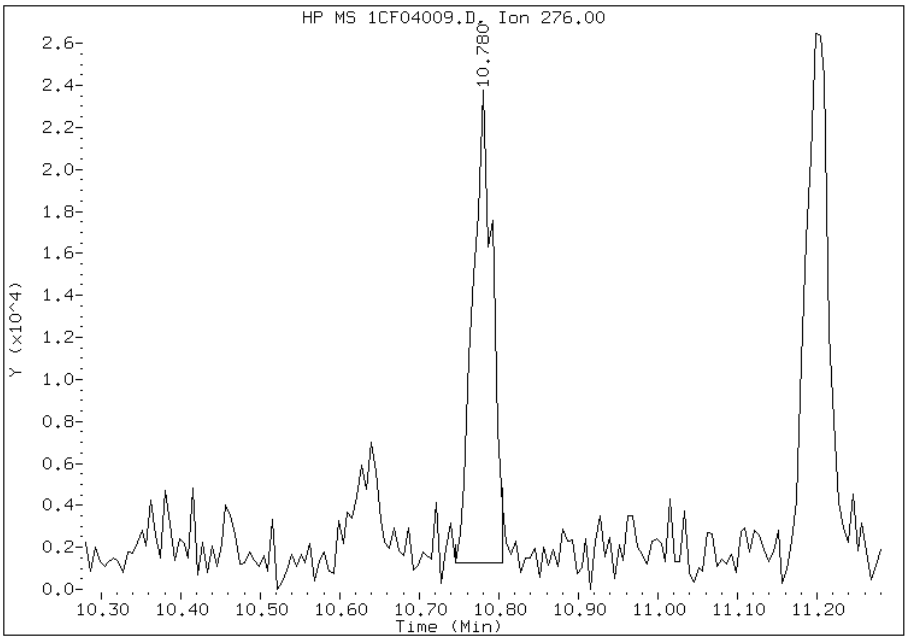
Manual Integration Results

RT: 10.78

Response: 38235

Amount: 1

Conc: 201



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1113B-CS | Lab Sample ID: 680-90723-3

Matrix: Solid | Lab File ID: 1CF04010.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 09:45

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

Sample wt/vol: 15.26(g) | Date Analyzed: 06/04/2013 13:03

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

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

% Moisture: 16.0 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	14	J	47	5.9
120-12-7	Anthracene	23		9.8	4.9
56-55-3	Benzo[a]anthracene	140		9.4	4.6
50-32-8	Benzo[a]pyrene	130		12	6.1
205-99-2	Benzo[b]fluoranthene	250		14	7.1
191-24-2	Benzo[g,h,i]perylene	120		23	5.2
207-08-9	Benzo[k]fluoranthene	67		9.4	4.2
218-01-9	Chrysene	190		11	5.3
53-70-3	Dibenz(a,h)anthracene	35		23	4.8
206-44-0	Fluoranthene	210		23	4.7
86-73-7	Fluorene	13	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	92		23	8.3
90-12-0	1-Methylnaphthalene	90		47	5.2
91-57-6	2-Methylnaphthalene	110		47	8.3
91-20-3	Naphthalene	68		47	5.2
85-01-8	Phenanthrene	170	B	9.4	4.6
129-00-0	Pyrene	200		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04010.D
Lab Smp Id: 680-90723-A-3-A Client Smp ID: CV1113B-CS
Inj Date : 04-JUN-2013 13:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-3-a
Misc Info : 680-90723-A-3-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 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	15.260	Weight Extracted
M	16.026	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2556773	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1790056	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3270583	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	421287	8.26907	645.2903
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3241027	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3156087	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	63183	0.87569	68.3363
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	56316	1.40718	109.8117
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	45231	1.14873	89.6428
	5 Acenaphthylene	152	5.045	5.045	(0.983)	12071	0.17590	13.7268
	7 Acenaphthene	154	5.151	5.151	(1.003)	6705	0.15581	12.1588(Q)
	9 Fluorene	166	5.474	5.480	(1.066)	9246	0.16839	13.1404
	11 Phenanthrene	178	6.115	6.121	(1.002)	205414	2.12585	165.8941
	12 Anthracene	178	6.151	6.157	(1.008)	26805	0.29943	23.3668

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	24297	0.40544	31.6392
15 Fluoranthene	202	6.968	6.968	(1.142)	267793	2.71139	211.5881
16 Pyrene	202	7.139	7.145	(0.885)	228043	2.60567	203.3382
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	159576	1.78557	139.3401
19 Chrysene	228	8.086	8.092	(1.003)	216388	2.40487	187.6679
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	245615	3.16745	247.1772(M)
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.959)	74090	0.85547	66.7577(QM)
22 Benzo(a)pyrene	252	9.333	9.345	(0.992)	125339	1.68128	131.2013
24 Indeno(1,2,3-cd)pyrene	276	10.780	10.792	(1.146)	86169	1.17926	92.0254(M)
25 Dibenzo(a,h)anthracene	278	10.797	10.815	(1.148)	30169	0.44785	34.9489
26 Benzo(g,h,i)perylene	276	11.209	11.215	(1.192)	108145	1.47496	115.1006

QC Flag Legend

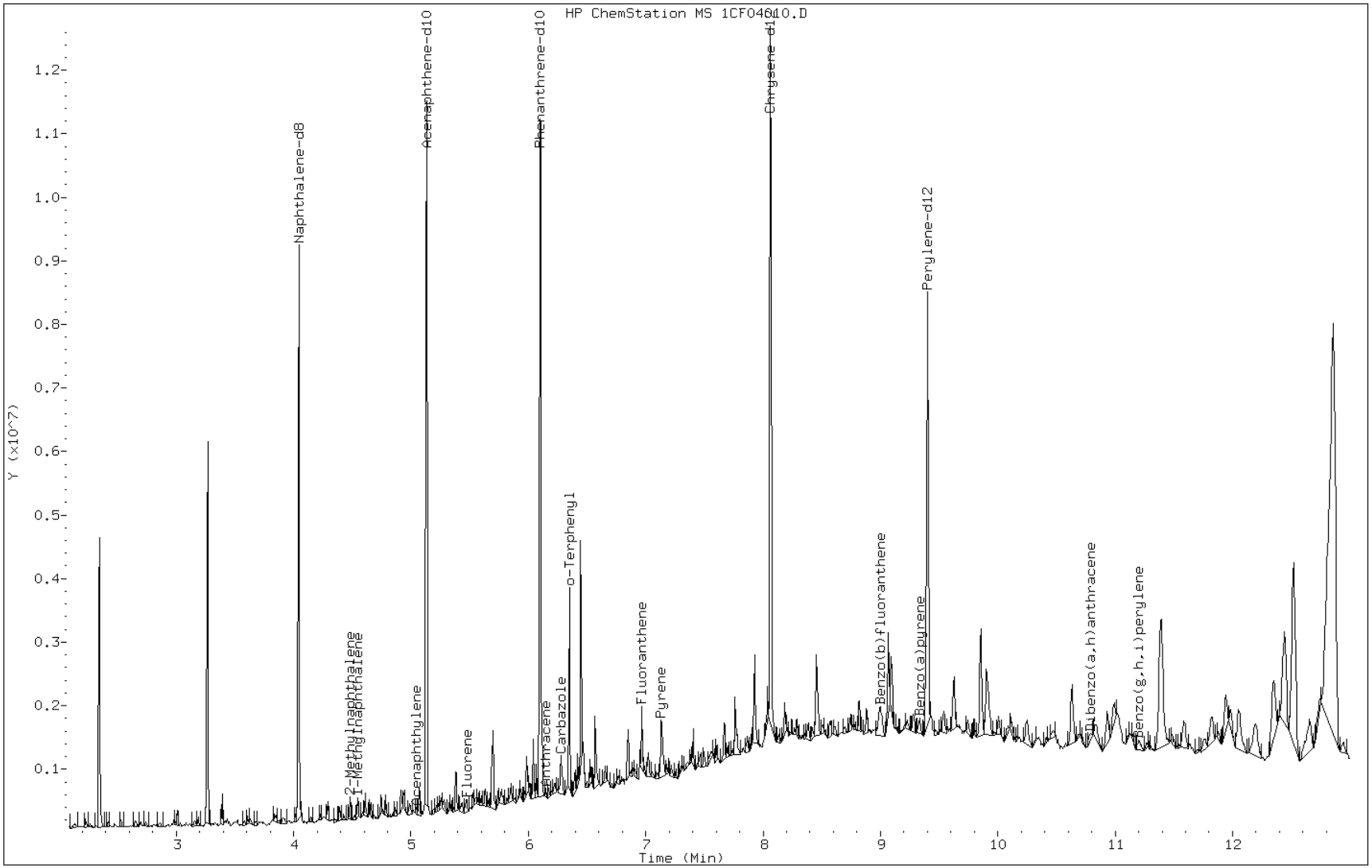
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC



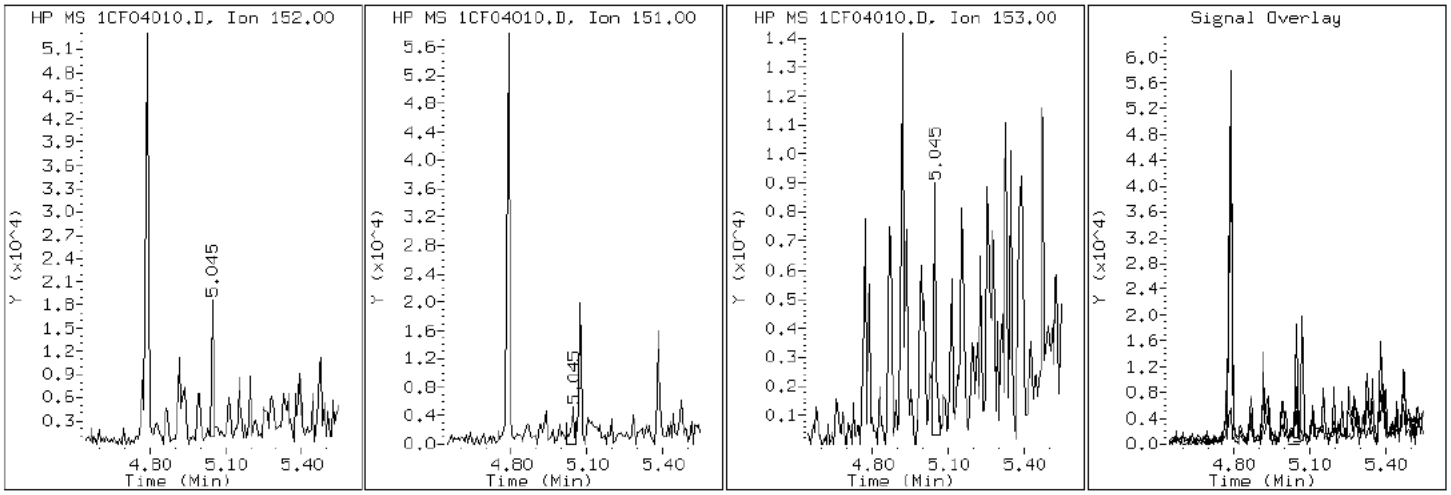
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

5 Acenaphthylene



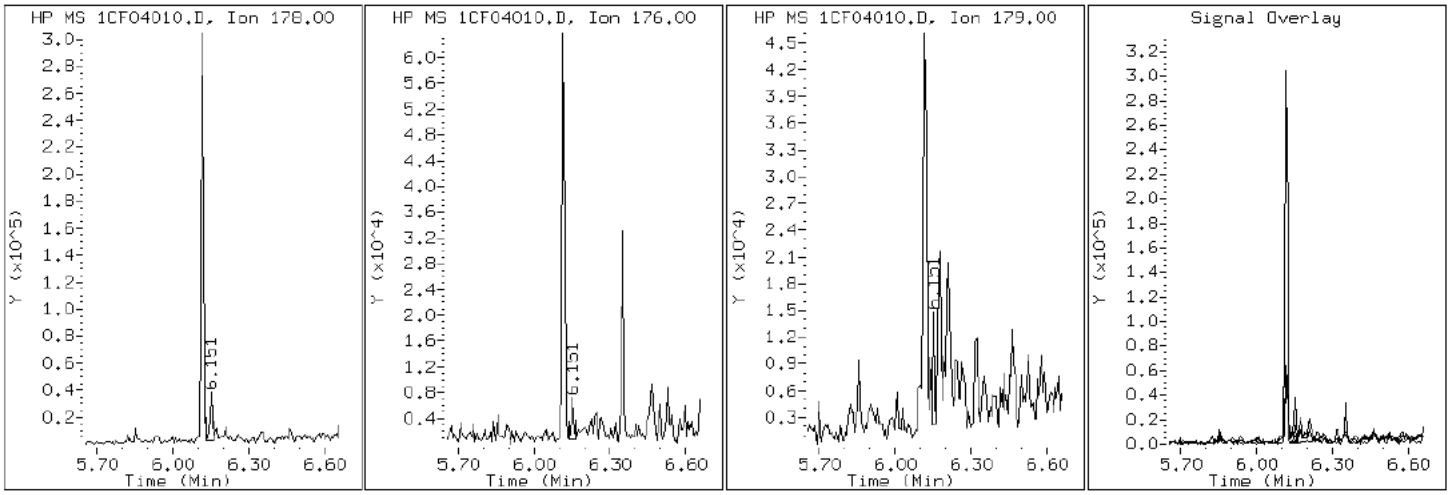
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

12 Anthracene



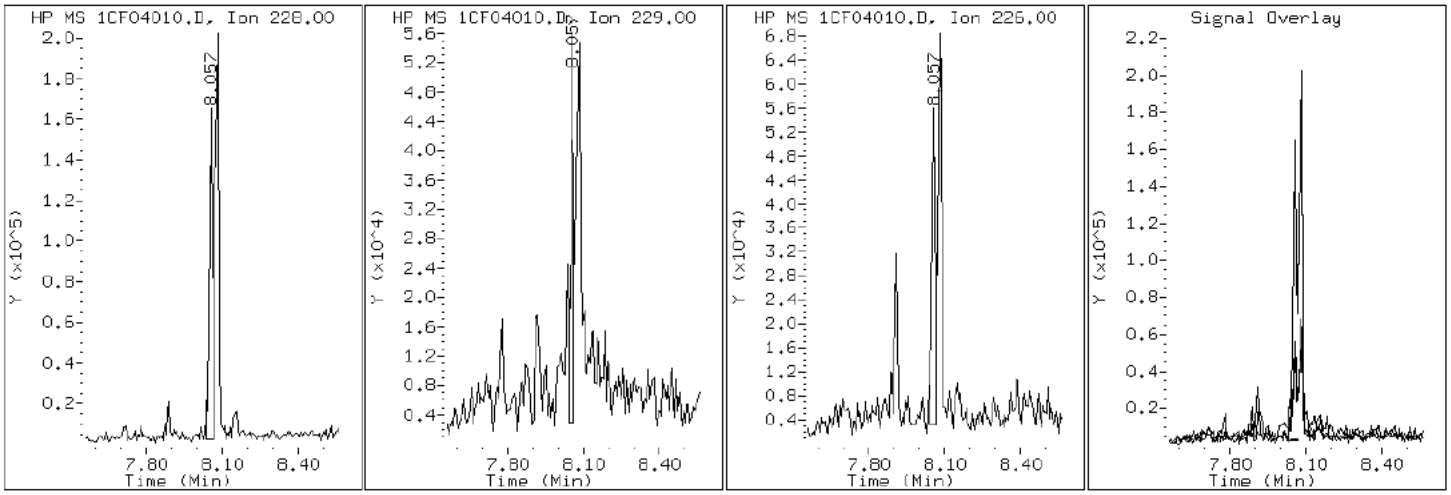
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

17 Benzo(a)anthracene



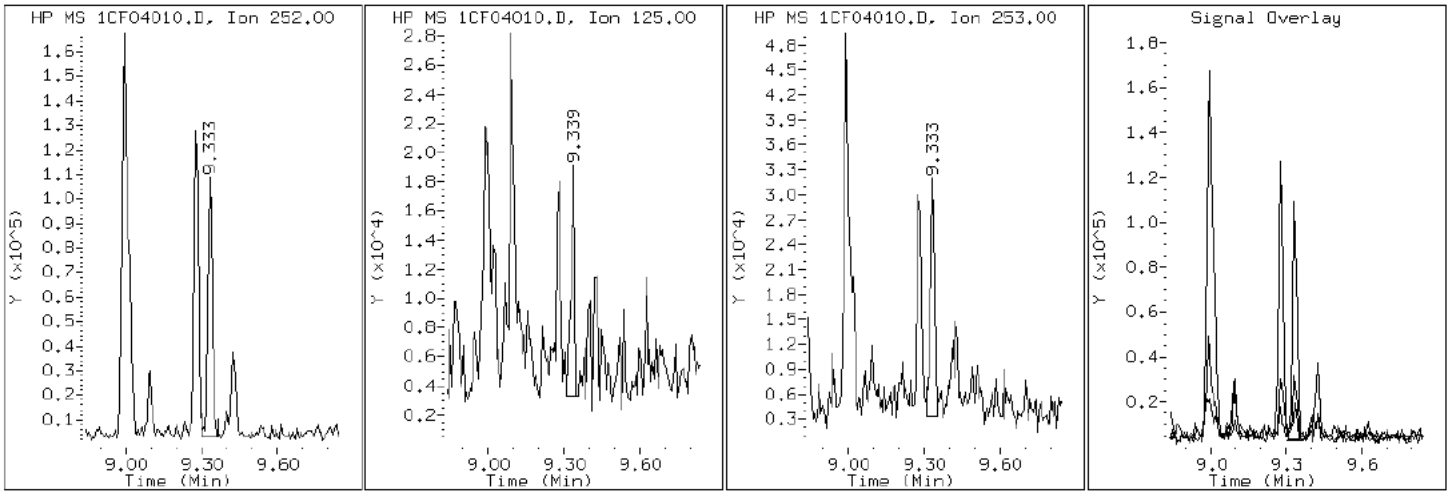
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

22 Benzo(a)pyrene



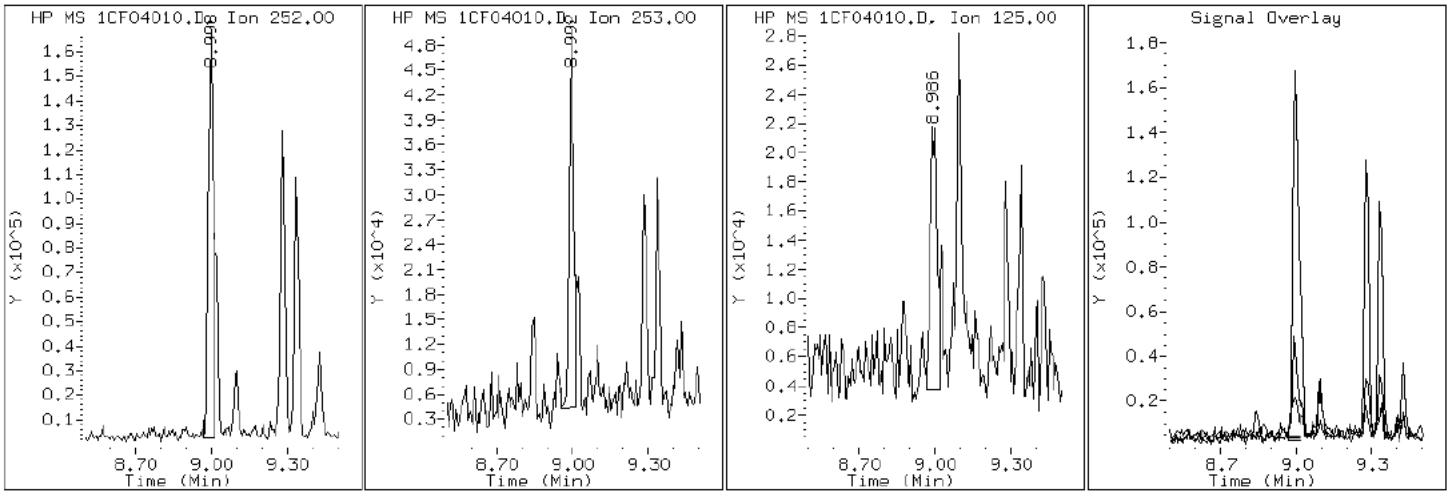
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



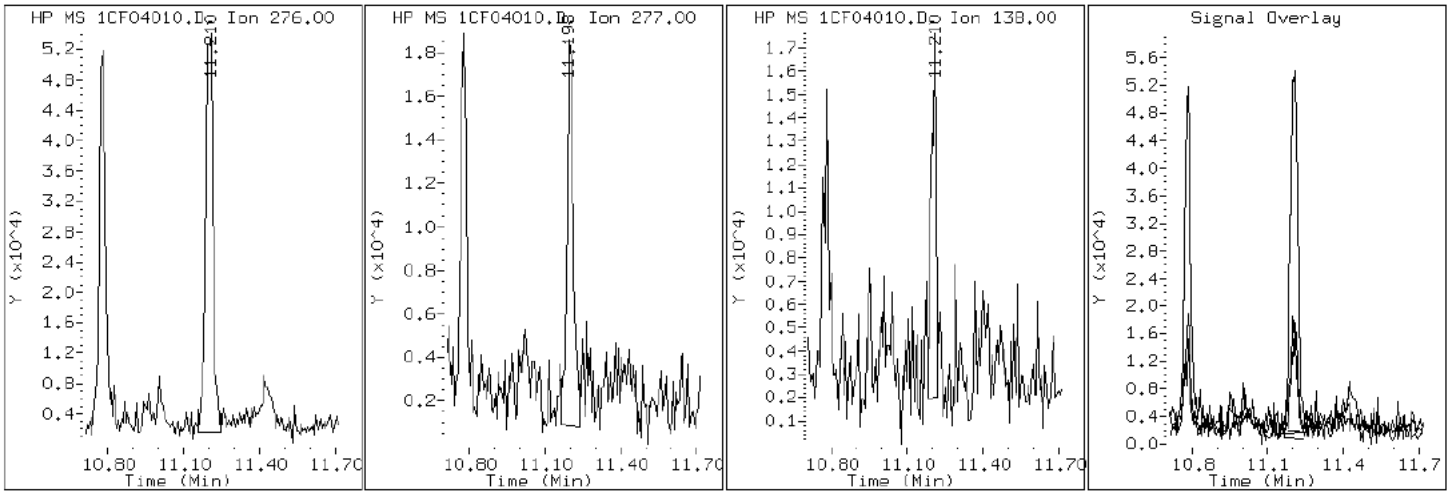
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



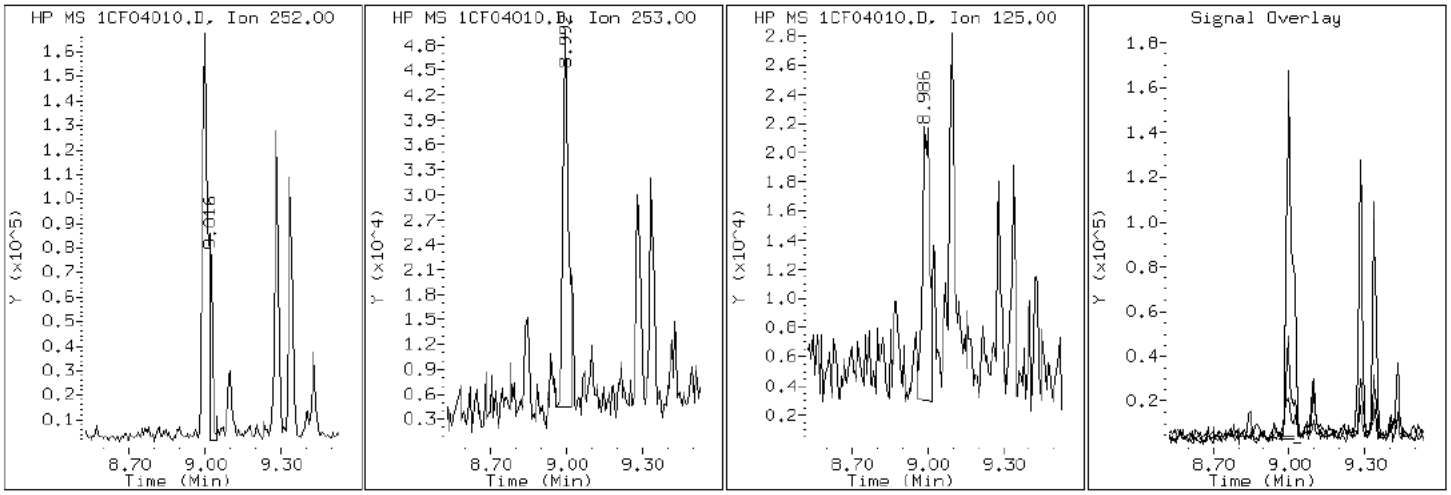
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



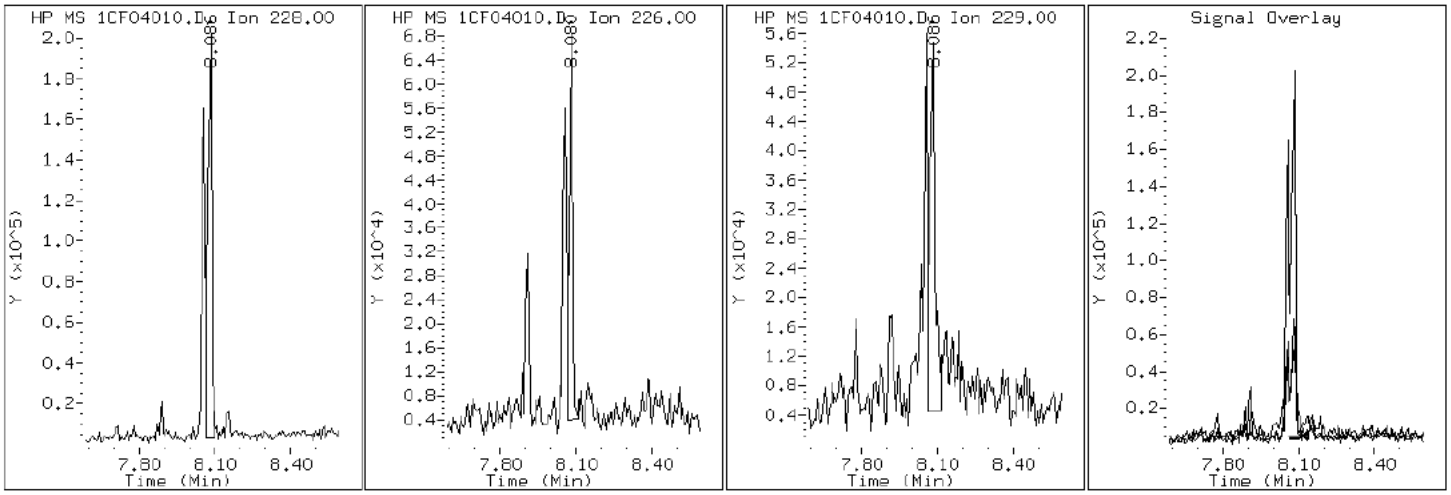
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

19 Chrysene



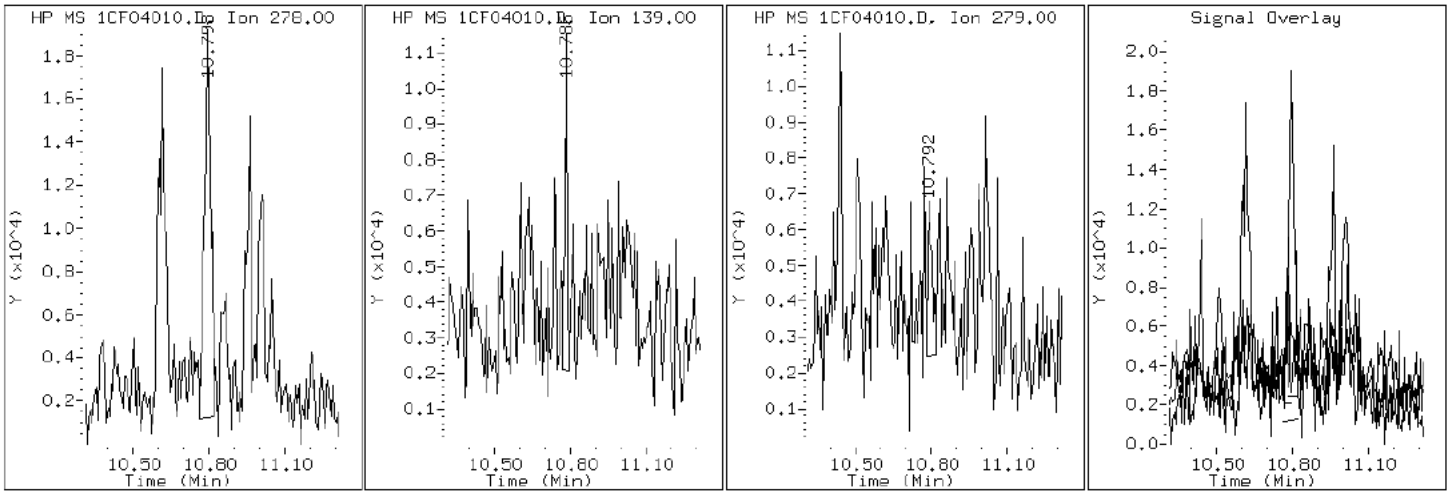
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



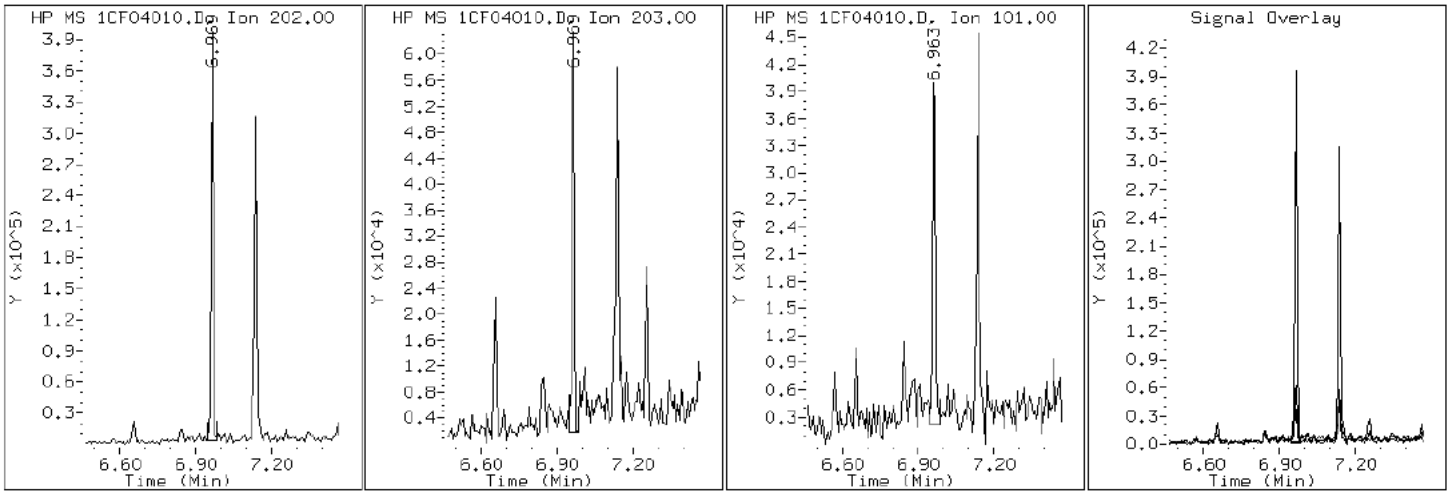
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

15 Fluoranthene



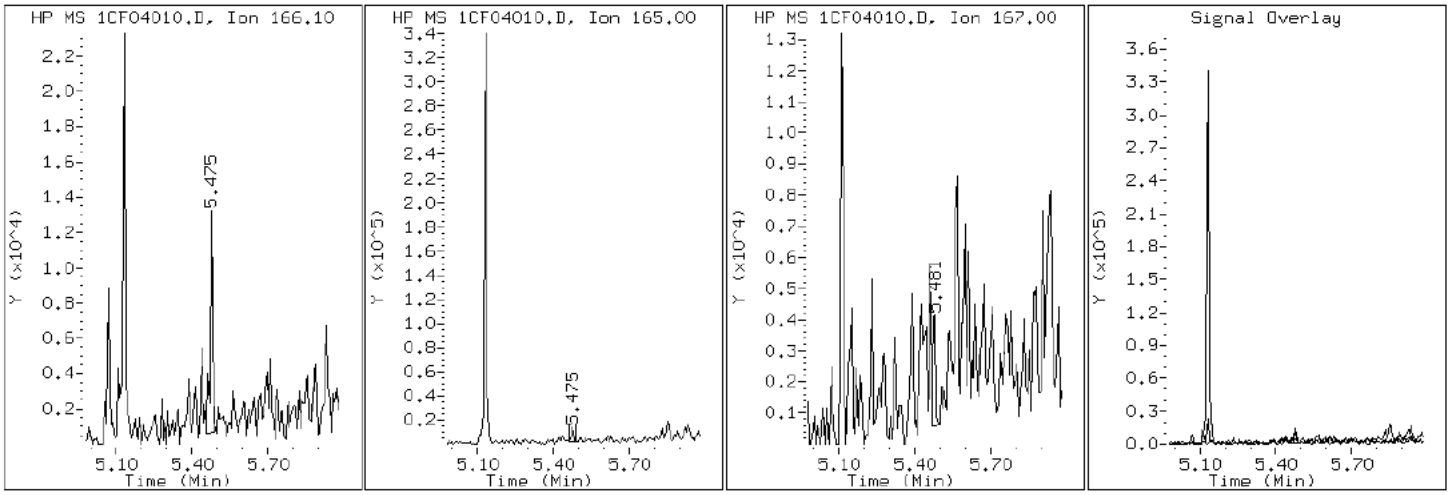
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

9 Fluorene



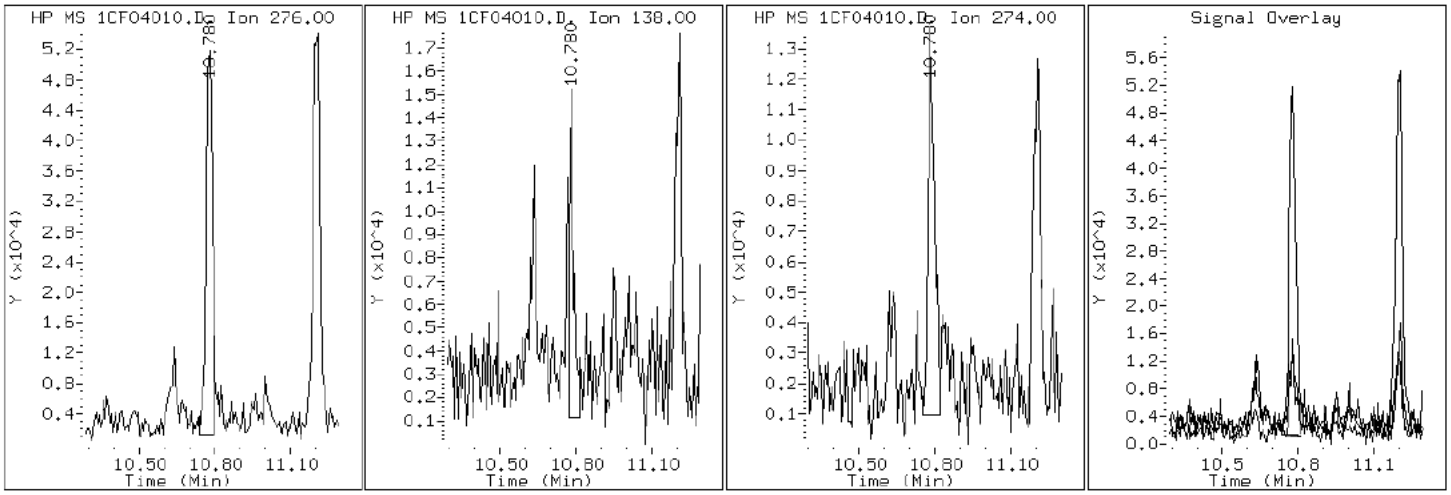
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

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



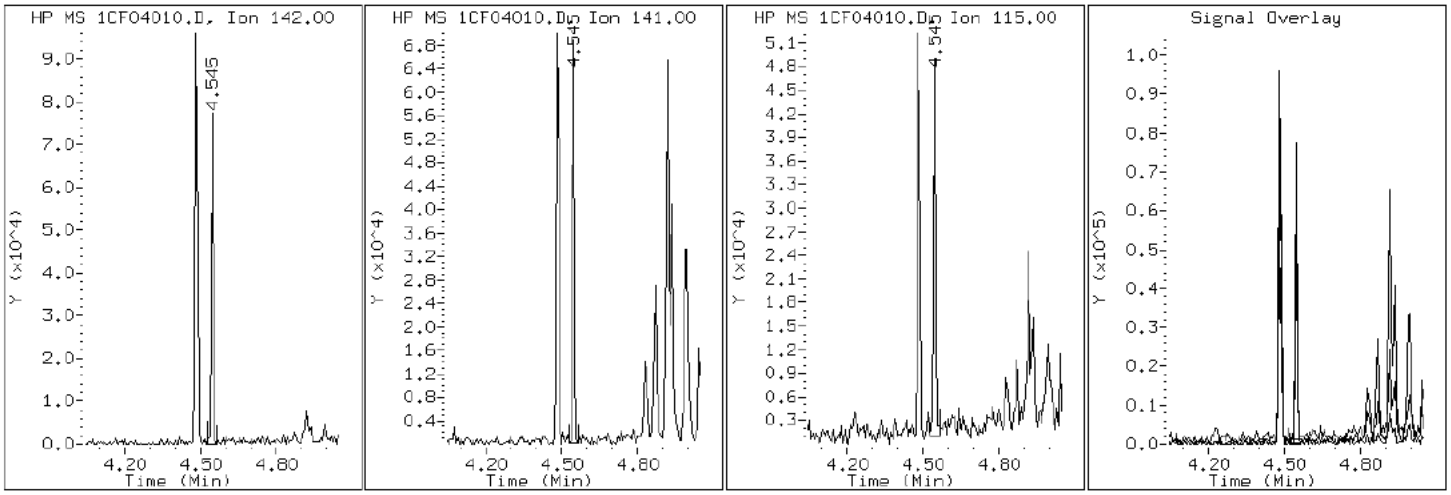
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

4 1-Methylnaphthalene



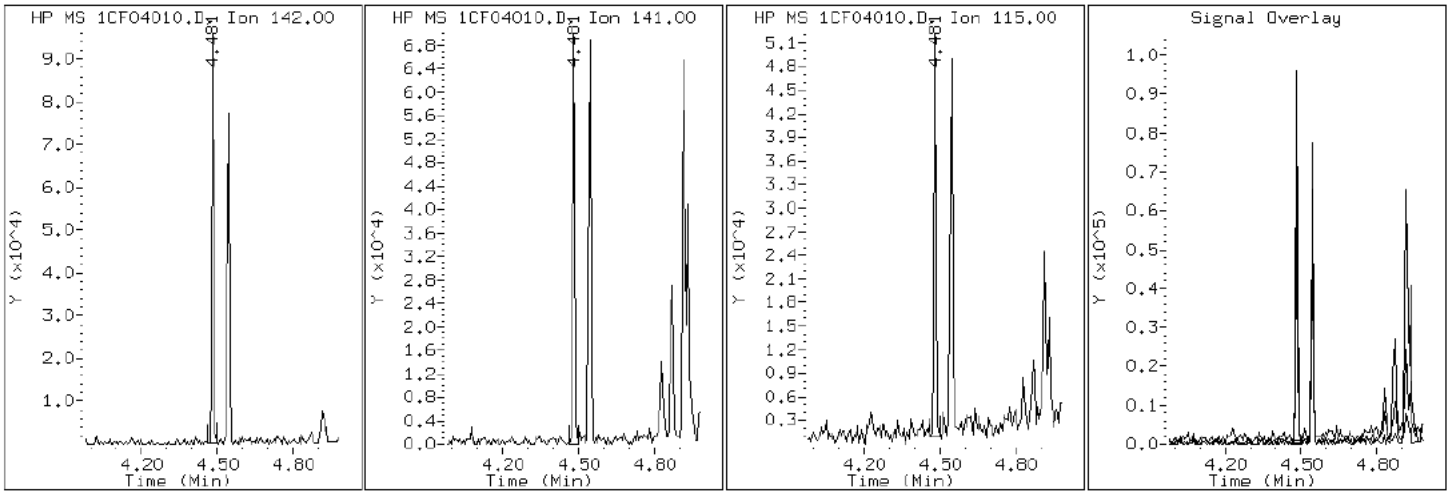
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

3 2-Methylnaphthalene



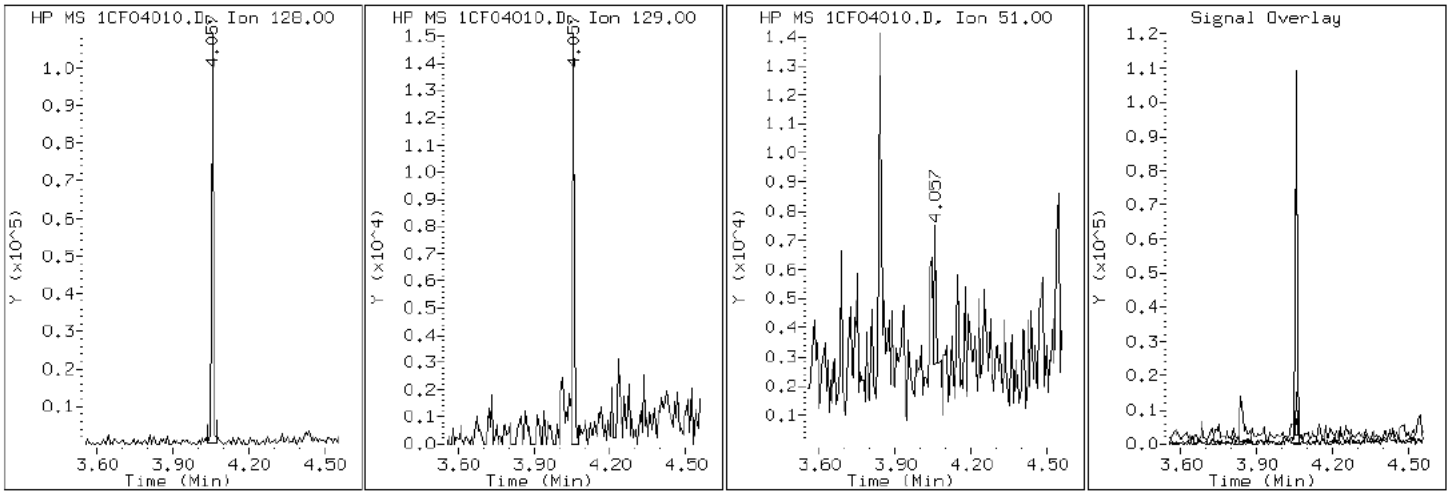
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

2 Naphthalene



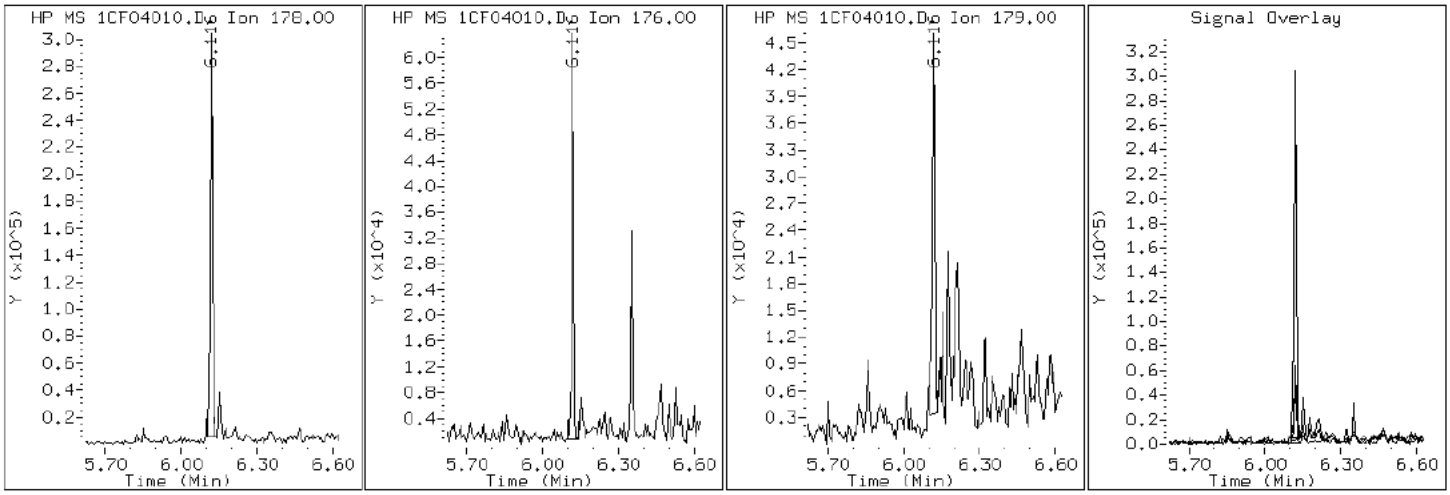
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

11 Phenanthrene



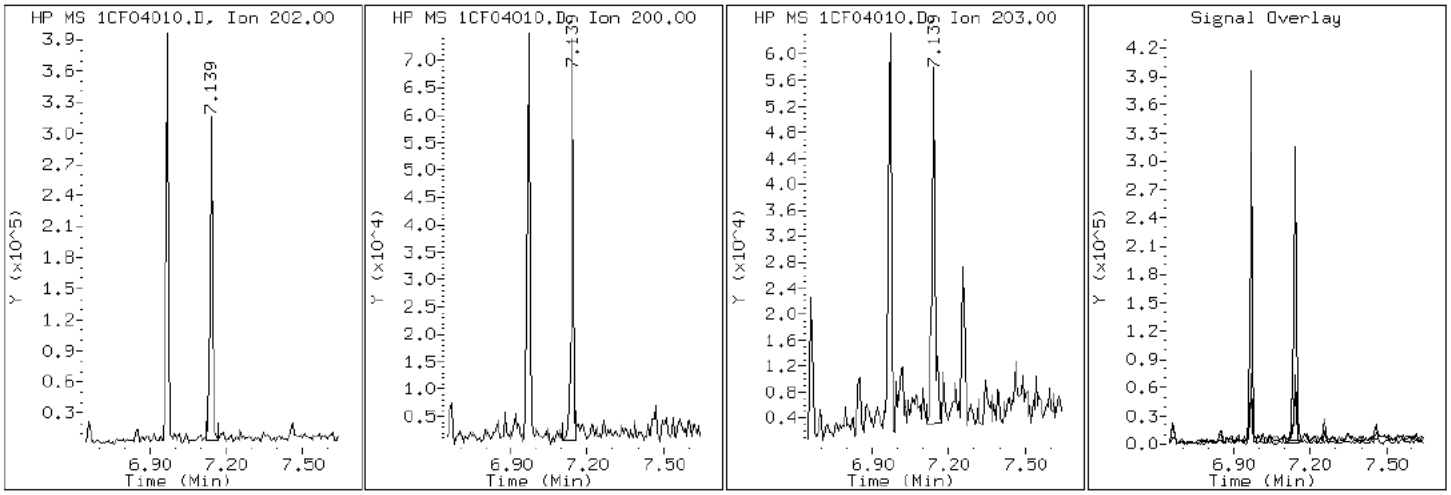
Data File: 1CF04010.D

Date: 04-JUN-2013 13:03

Client ID: CV1113B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04010.D
Inj. Date and Time: 04-JUN-2013 13:03
Instrument ID: BSMC5973.i
Client ID: CV1113B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

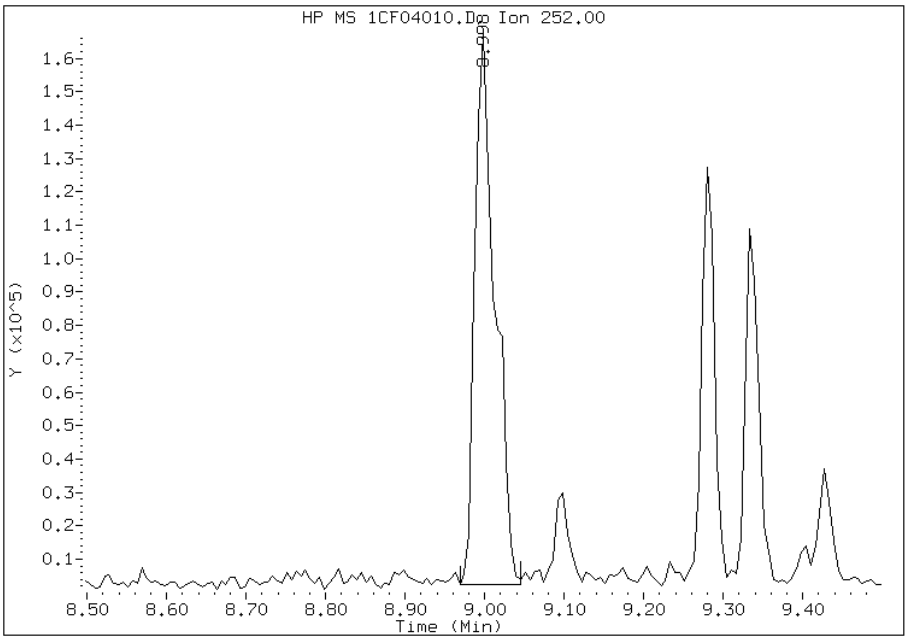
Processing Integration Results

RT: 9.00

Response: 290470

Amount: 4

Conc: 292



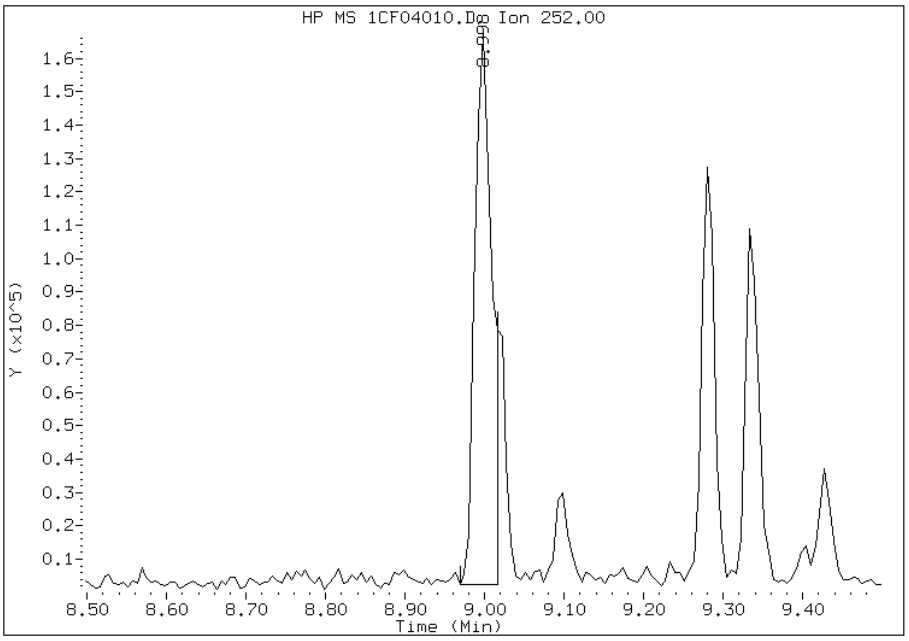
Manual Integration Results

RT: 9.00

Response: 245615

Amount: 3

Conc: 247



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04010.D
Inj. Date and Time: 04-JUN-2013 13:03
Instrument ID: BSMC5973.i
Client ID: CV1113B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

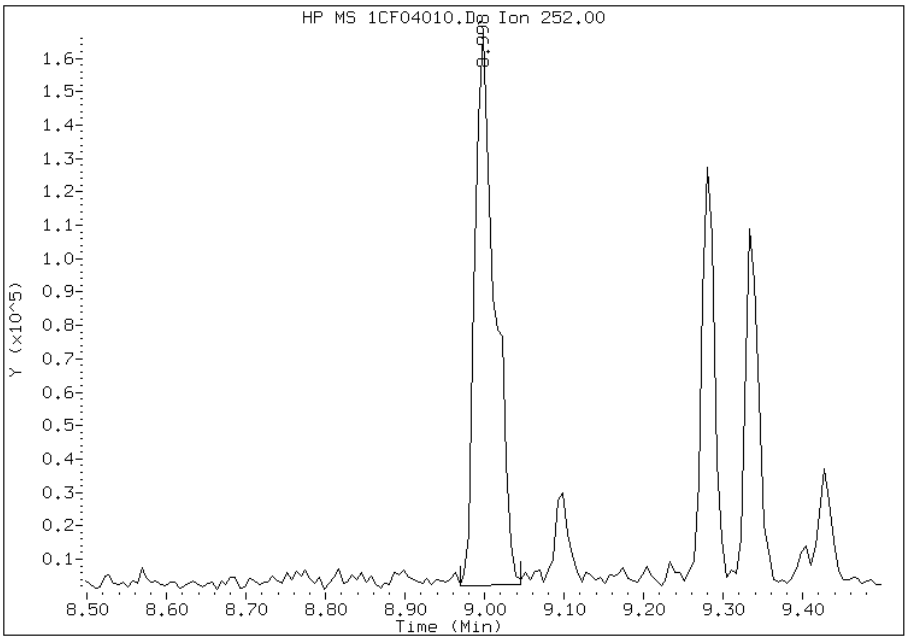
Processing Integration Results

RT: 9.00

Response: 291501

Amount: 3

Conc: 263



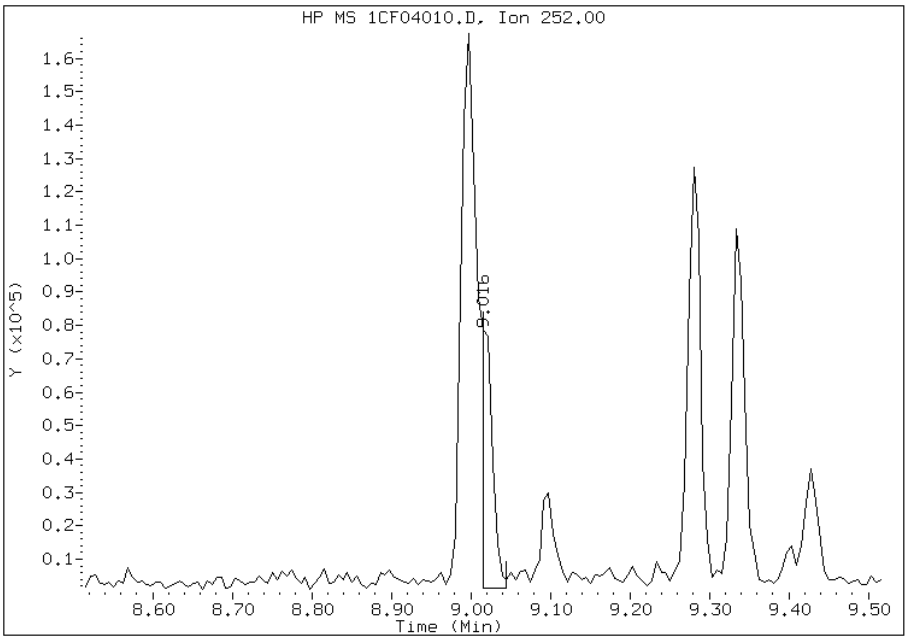
Manual Integration Results

RT: 9.02

Response: 74090

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04010.D
Inj. Date and Time: 04-JUN-2013 13:03
Instrument ID: BSMC5973.i
Client ID: CV1113B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

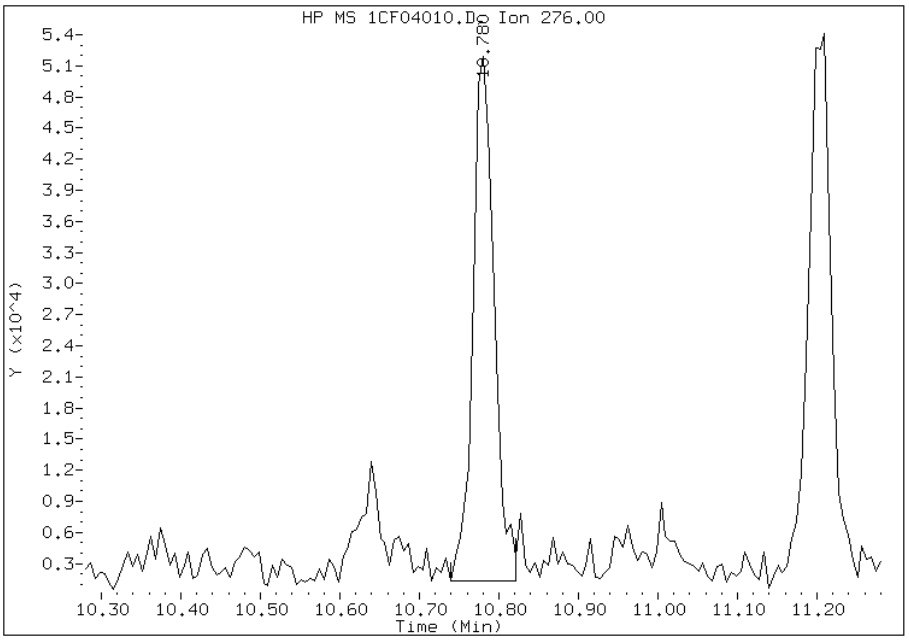
Processing Integration Results

RT: 10.78

Response: 93238

Amount: 1

Conc: 99



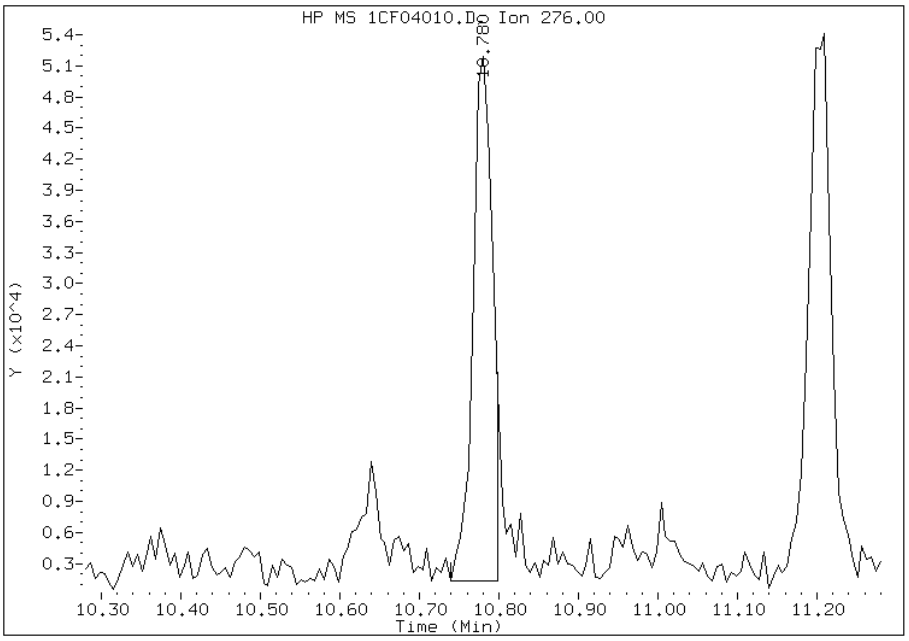
Manual Integration Results

RT: 10.78

Response: 86169

Amount: 1

Conc: 92



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1163A-CS | Lab Sample ID: 680-90723-4

Matrix: Solid | Lab File ID: 1CF04011.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:34

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

Sample wt/vol: 15.14(g) | Date Analyzed: 06/04/2013 13:21

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

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

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	20	J	47	5.9
120-12-7	Anthracene	30		9.9	5.0
56-55-3	Benzo[a]anthracene	180		9.5	4.6
50-32-8	Benzo[a]pyrene	170		12	6.1
205-99-2	Benzo[b]fluoranthene	290		14	7.2
191-24-2	Benzo[g,h,i]perylene	140		24	5.2
207-08-9	Benzo[k]fluoranthene	82		9.5	4.3
218-01-9	Chrysene	220		11	5.3
53-70-3	Dibenz(a,h)anthracene	41		24	4.8
206-44-0	Fluoranthene	300		24	4.7
86-73-7	Fluorene	14	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	120		24	8.4
90-12-0	1-Methylnaphthalene	58		47	5.2
91-57-6	2-Methylnaphthalene	55		47	8.4
91-20-3	Naphthalene	46	J	47	5.2
85-01-8	Phenanthrene	180	B	9.5	4.6
129-00-0	Pyrene	290		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04011.D
Lab Smp Id: 680-90723-A-4-A Client Smp ID: CV1163A-CS
Inj Date : 04-JUN-2013 13:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-4-a
Misc Info : 680-90723-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 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	15.140	Weight Extracted
M	16.157	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2719505	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1837666	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3354932	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	399190	7.63835	601.7386
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3422498	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3291206	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	44997	0.58633	46.1898
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	29500	0.69301	54.5947
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	30791	0.73520	57.9182
	5 Acenaphthylene	152	5.045	5.045	(0.983)	17978	0.25519	20.1038
	7 Acenaphthene	154	5.151	5.151	(1.003)	8223	0.18613	14.6633(Q)
	9 Fluorene	166	5.474	5.480	(1.066)	9922	0.17602	13.8664(Q)
	11 Phenanthrene	178	6.115	6.121	(1.002)	226588	2.28602	180.0897
	12 Anthracene	178	6.151	6.157	(1.008)	35106	0.38230	30.1174

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	28523	0.44741	35.2462
15 Fluoranthene	202	6.968	6.968	(1.142)	391375	3.86303	304.3240
16 Pyrene	202	7.139	7.145	(0.885)	338690	3.66476	288.7046
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	219540	2.32629	183.2615
19 Chrysene	228	8.086	8.092	(1.003)	264071	2.77919	218.9408
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	293467	3.62918	285.9014
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	94481	1.04612	82.4118(Q)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	172275	2.18395	172.0486
24 Indeno(1,2,3-cd)pyrene	276	10.780	10.792	(1.146)	121815	1.54230	121.5004(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	36289	0.51659	40.6959
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	132641	1.73478	136.6635

QC Flag Legend

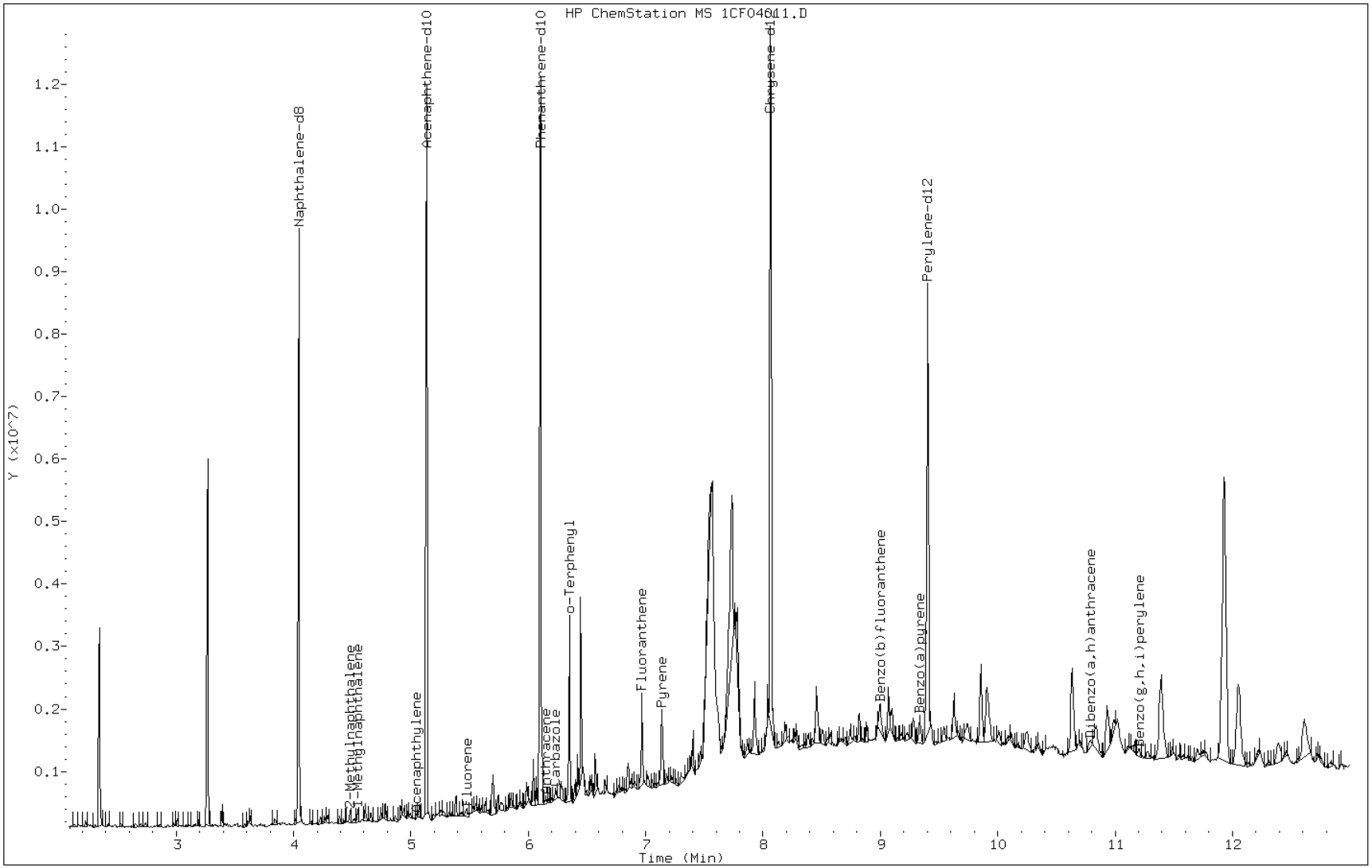
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC



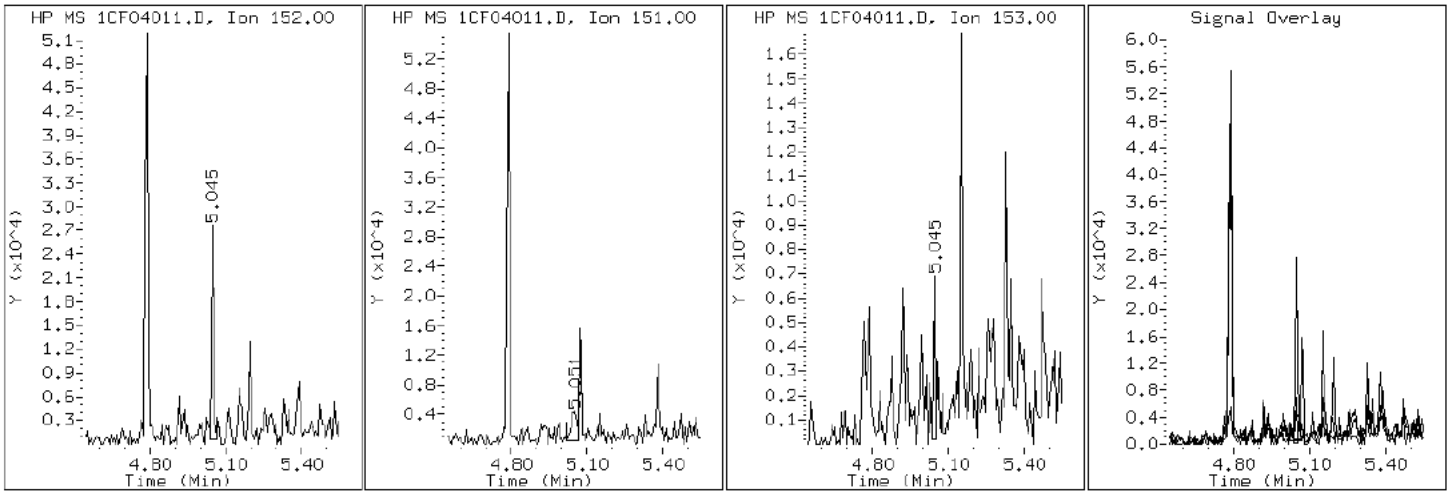
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

5 Acenaphthylene



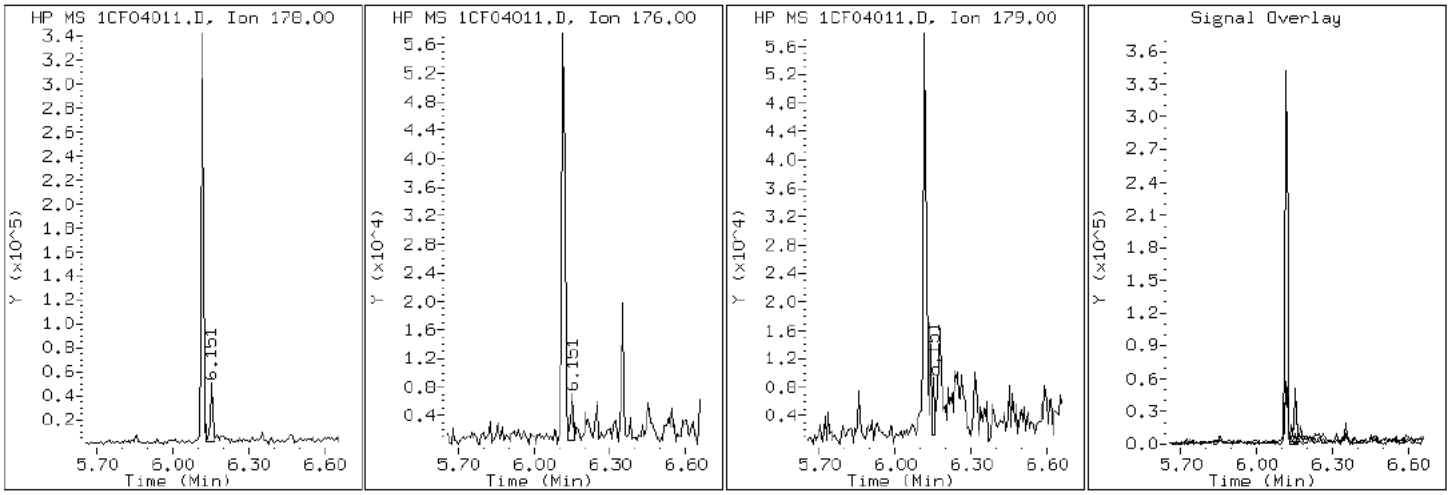
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

12 Anthracene



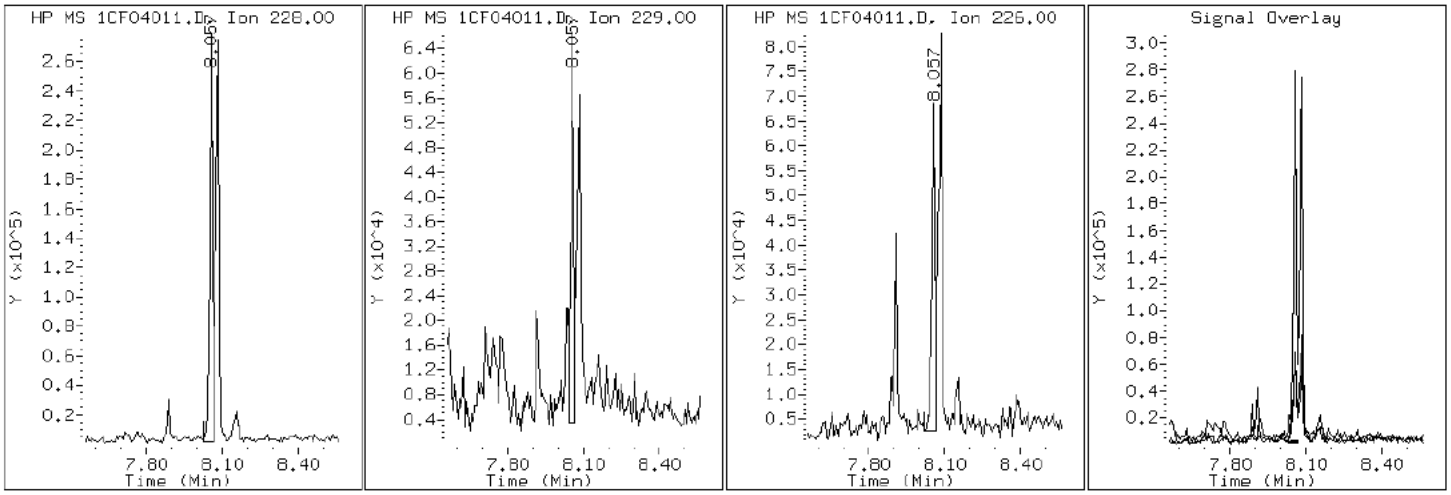
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

17 Benzo(a)anthracene



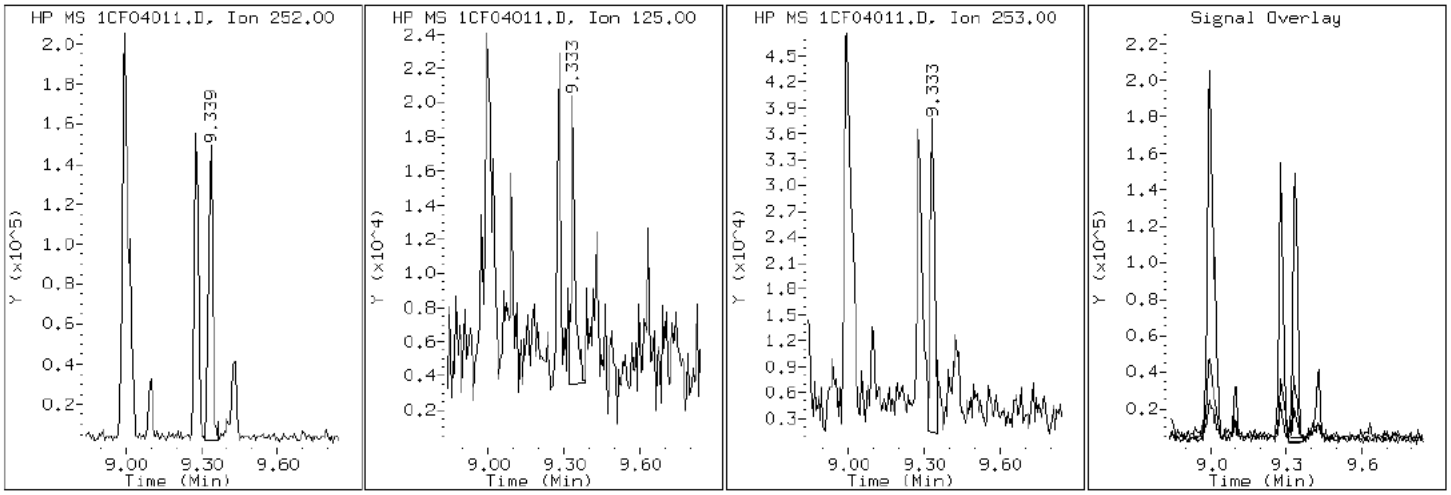
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

22 Benzo(a)pyrene



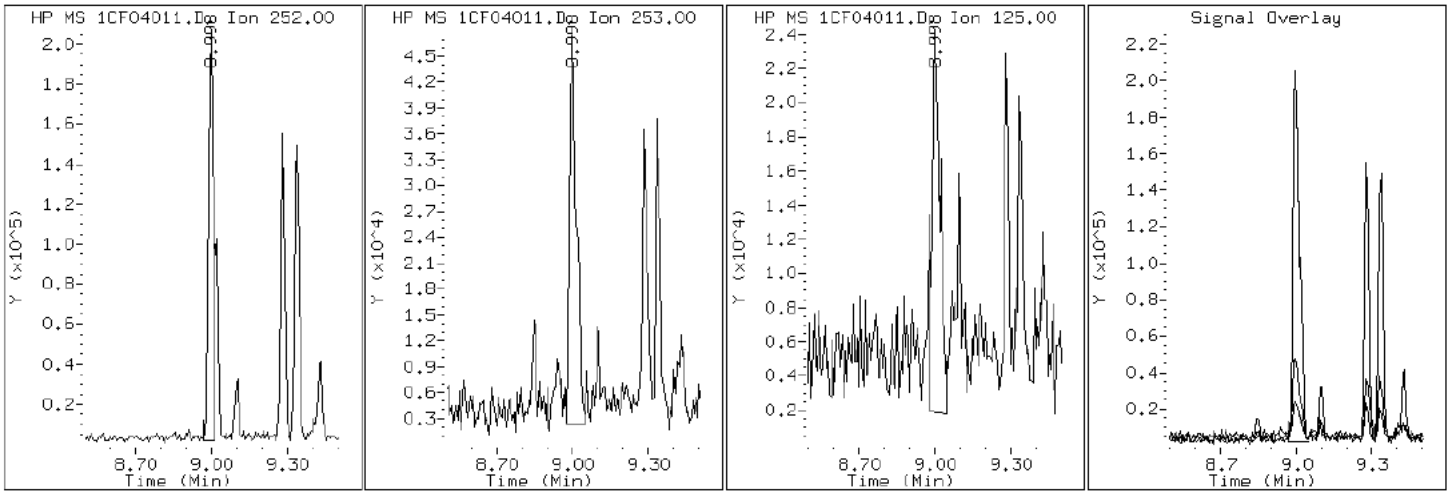
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



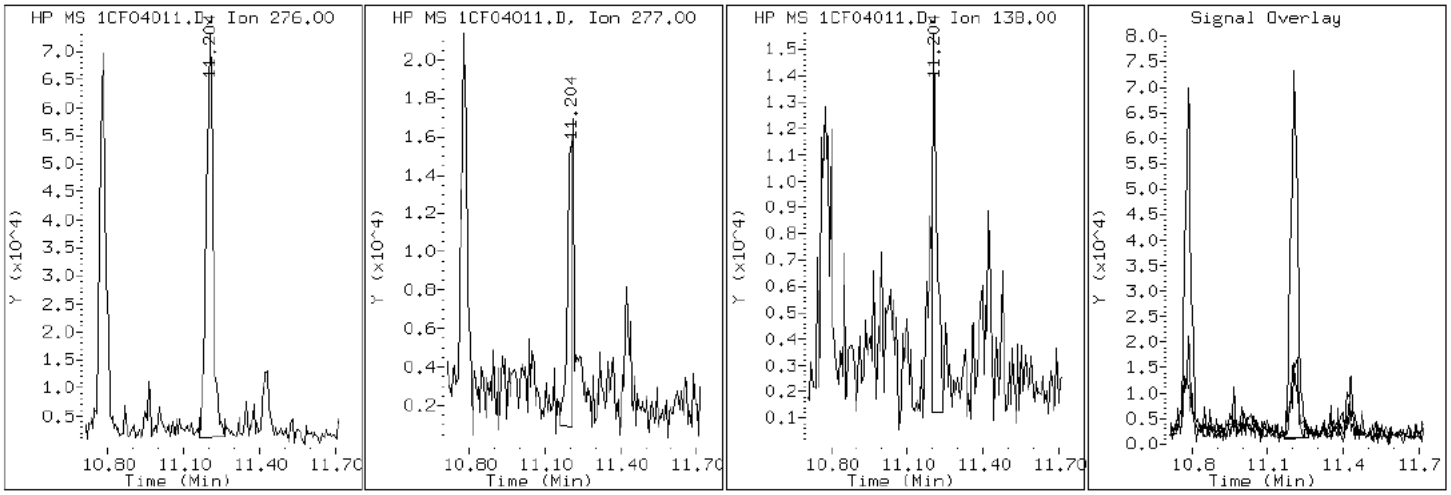
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



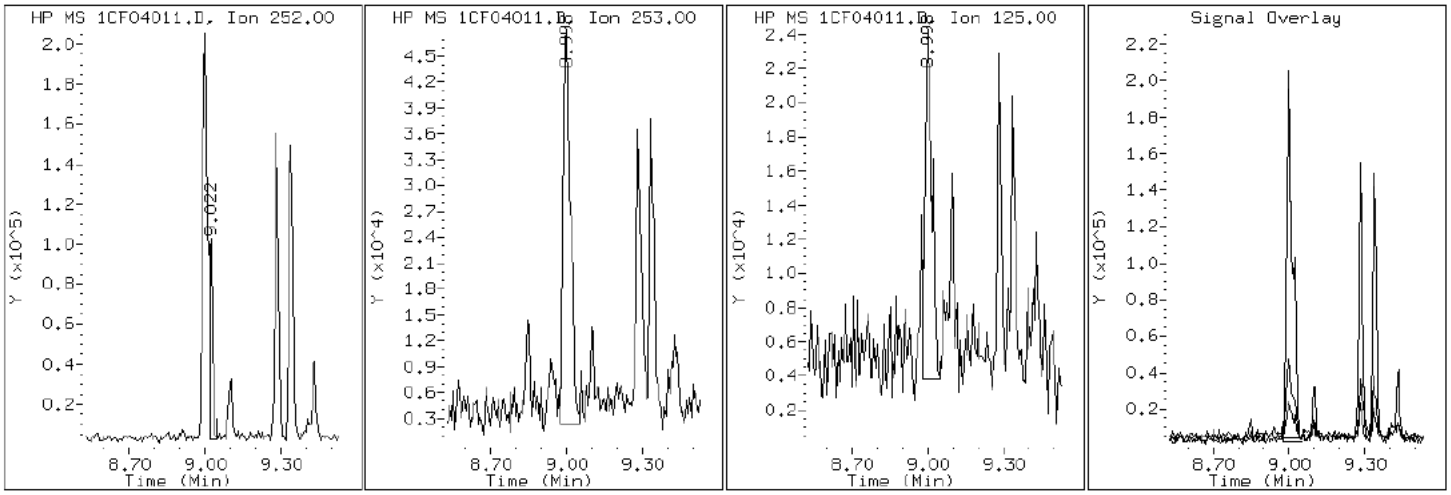
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



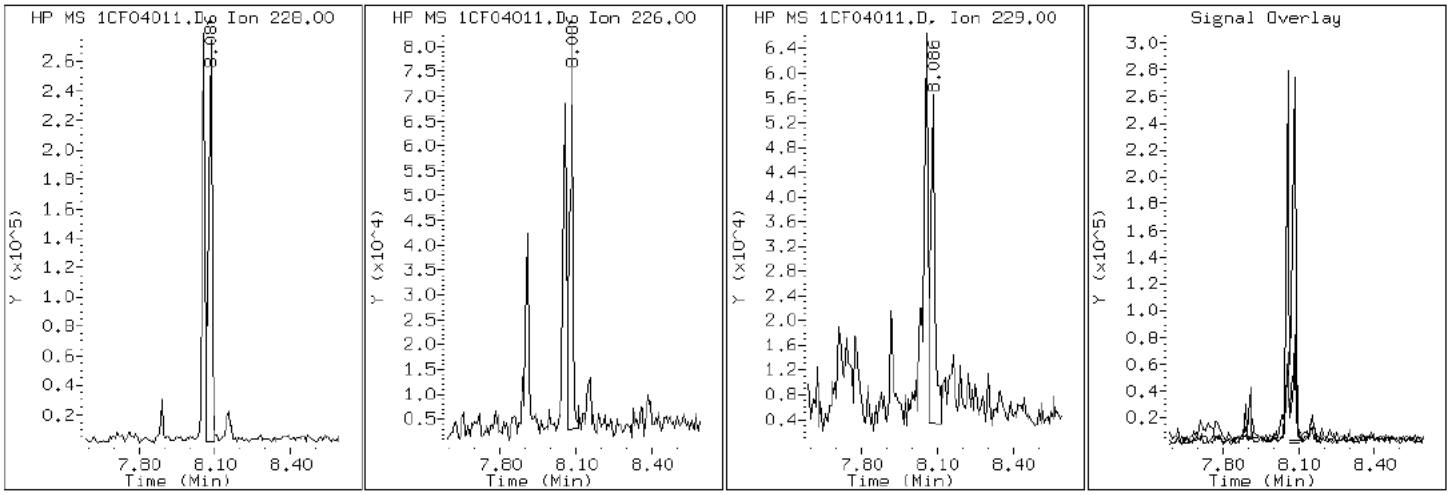
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

19 Chrysene



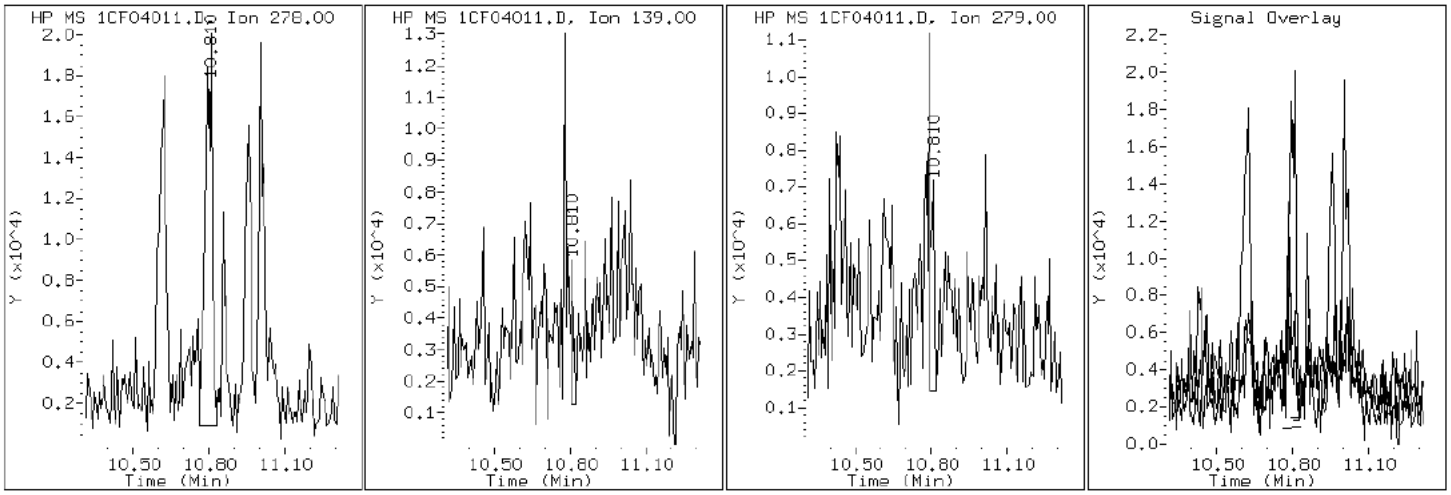
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

25 Dibenzo(a,h)anthracene



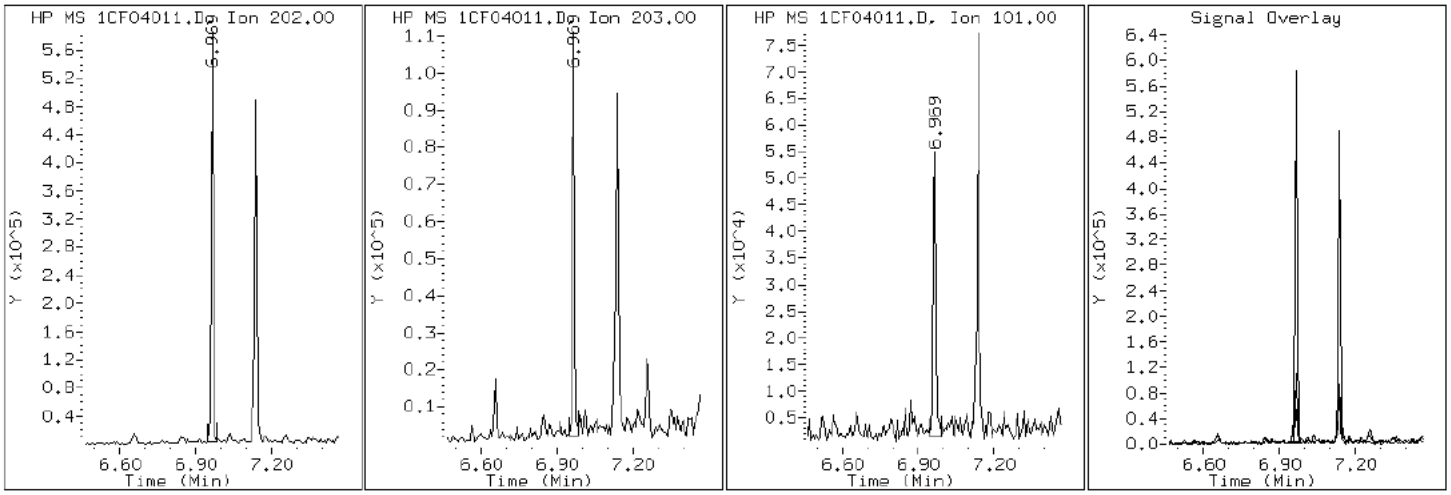
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

15 Fluoranthene



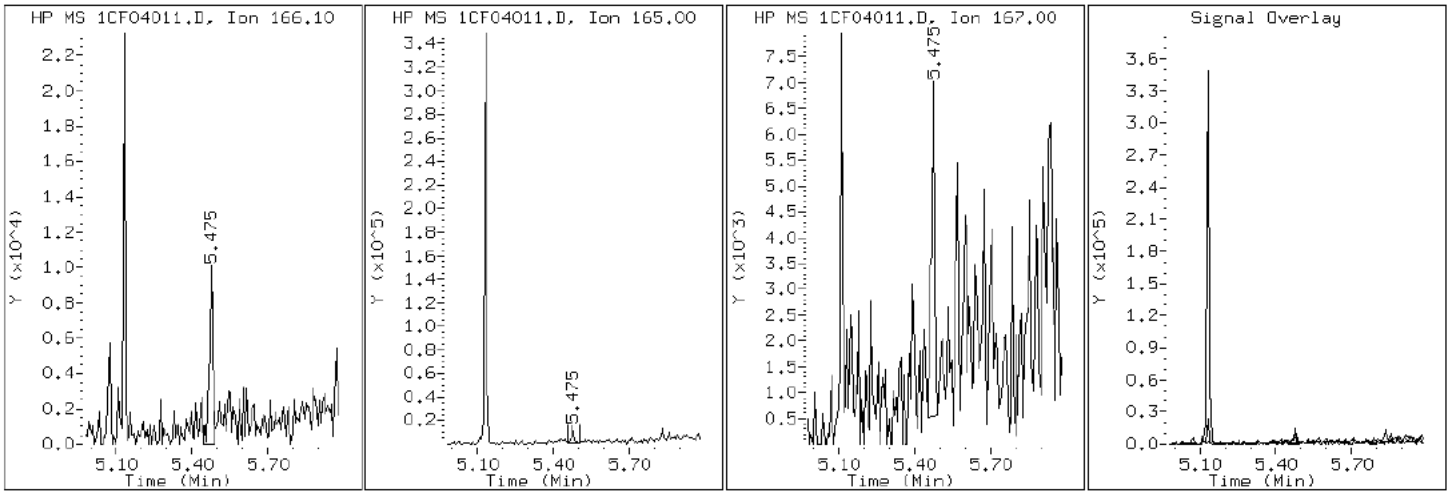
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

9 Fluorene



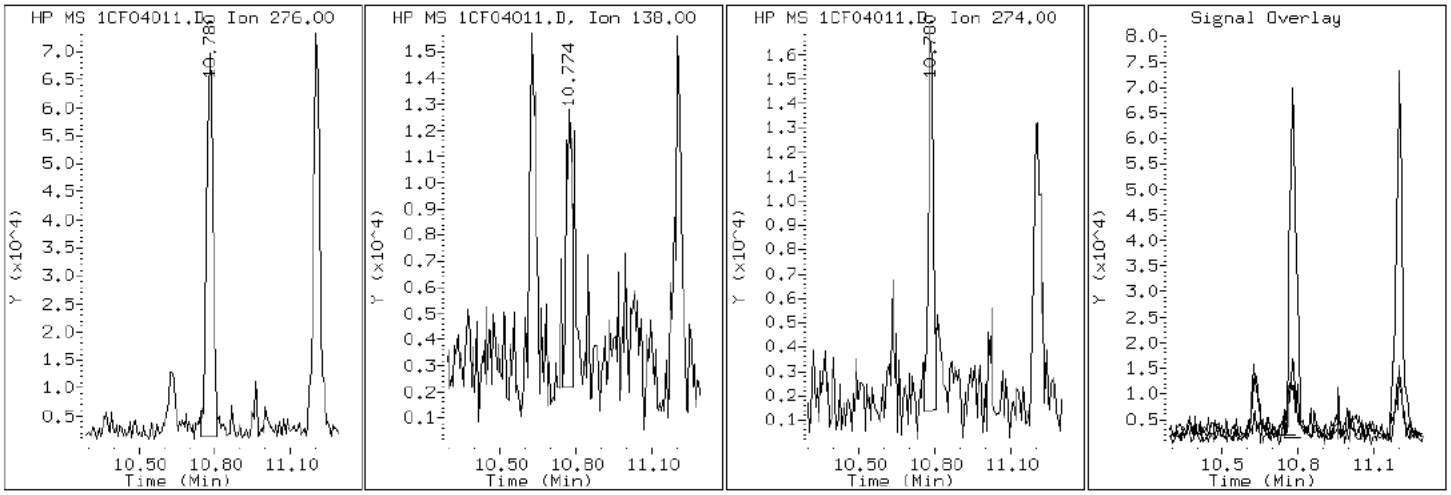
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

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



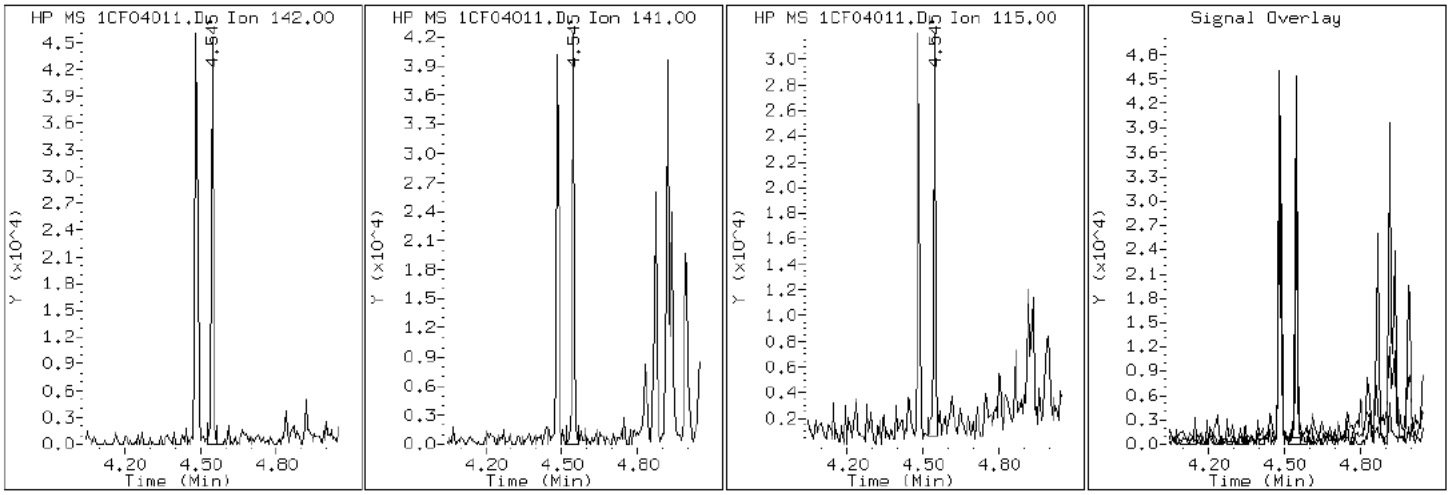
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

4 1-Methylnaphthalene



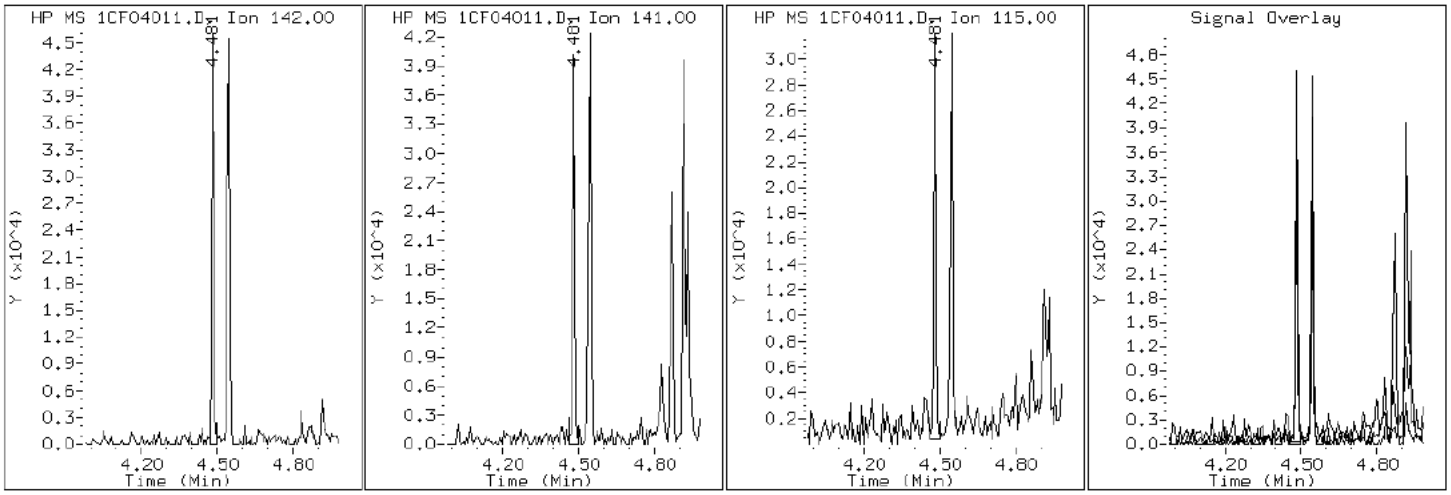
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

3 2-Methylnaphthalene



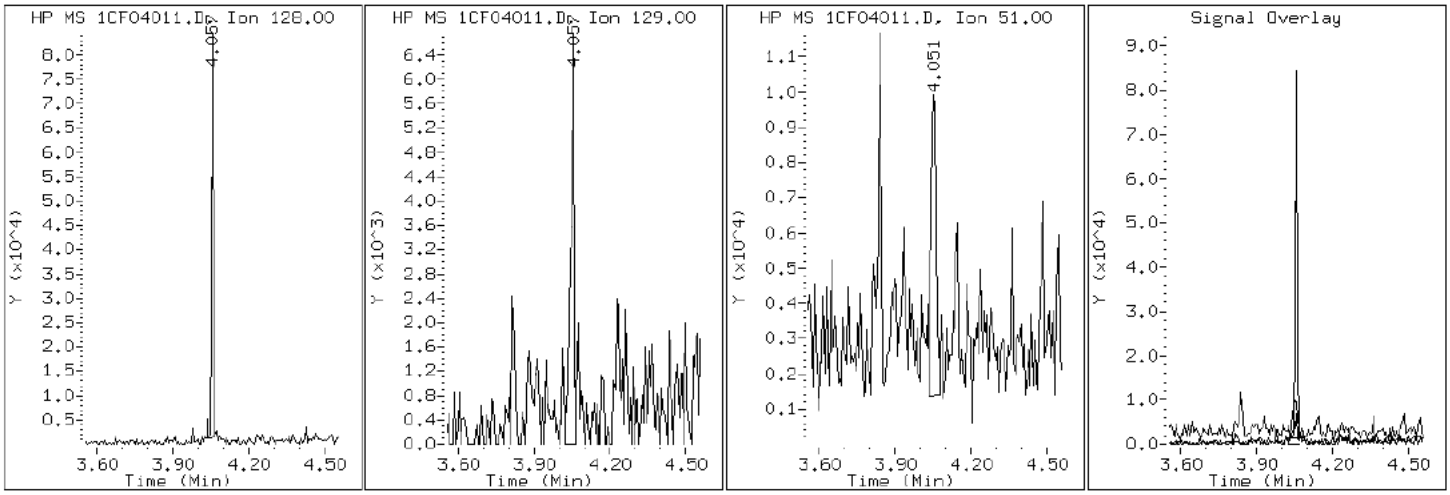
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

2 Naphthalene



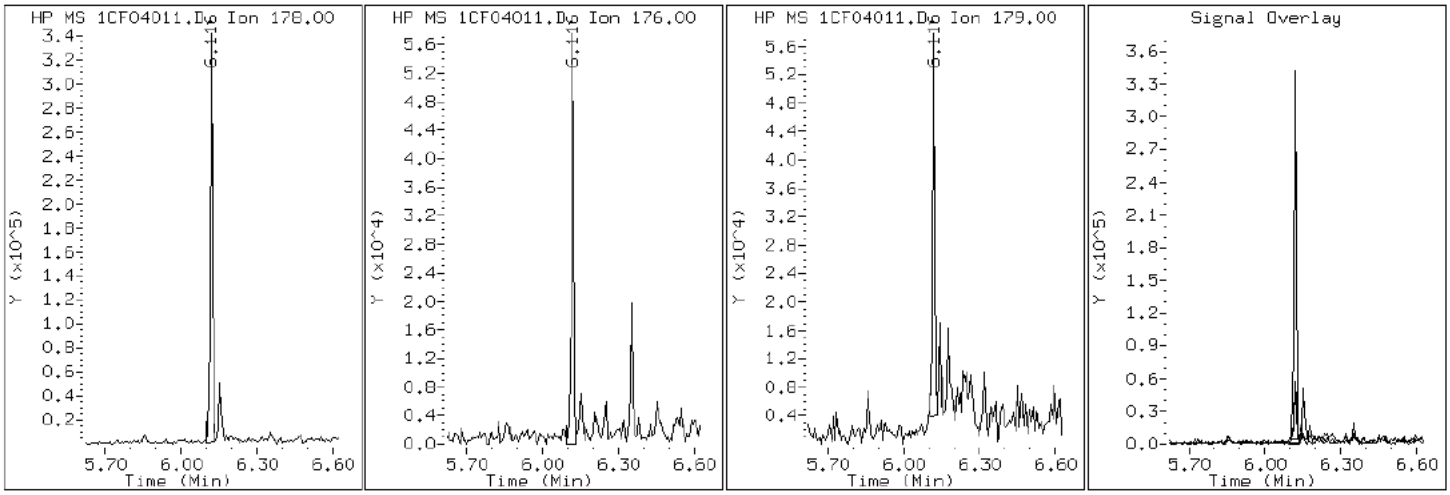
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

11 Phenanthrene



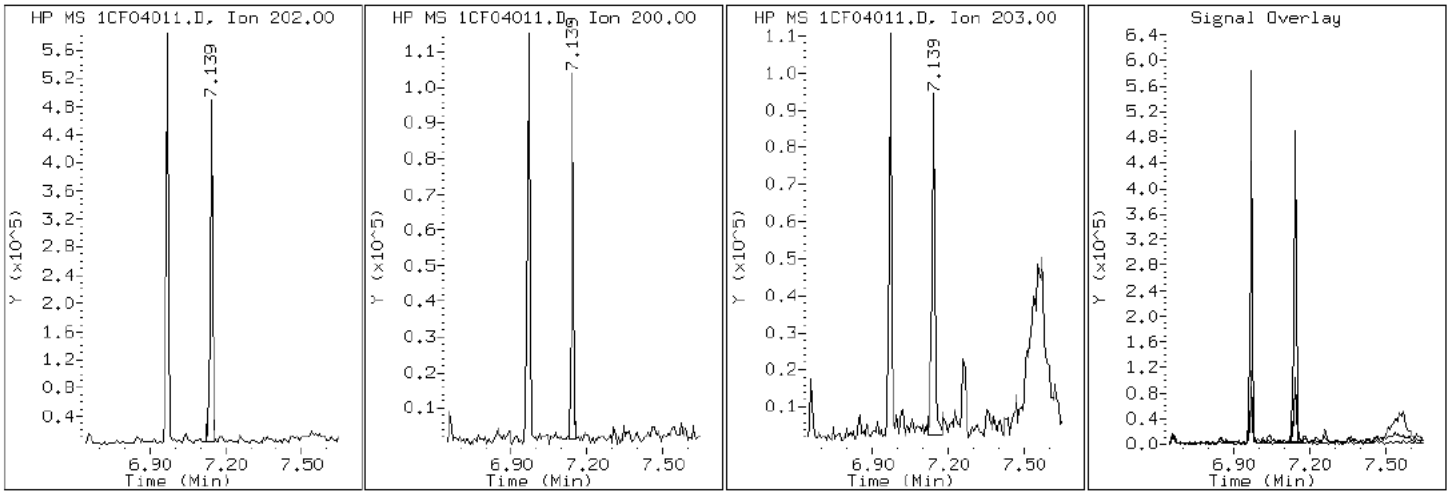
Data File: 1CF04011.D

Date: 04-JUN-2013 13:21

Client ID: CV1163A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04011.D
Inj. Date and Time: 04-JUN-2013 13:21
Instrument ID: BSMC5973.i
Client ID: CV1163A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

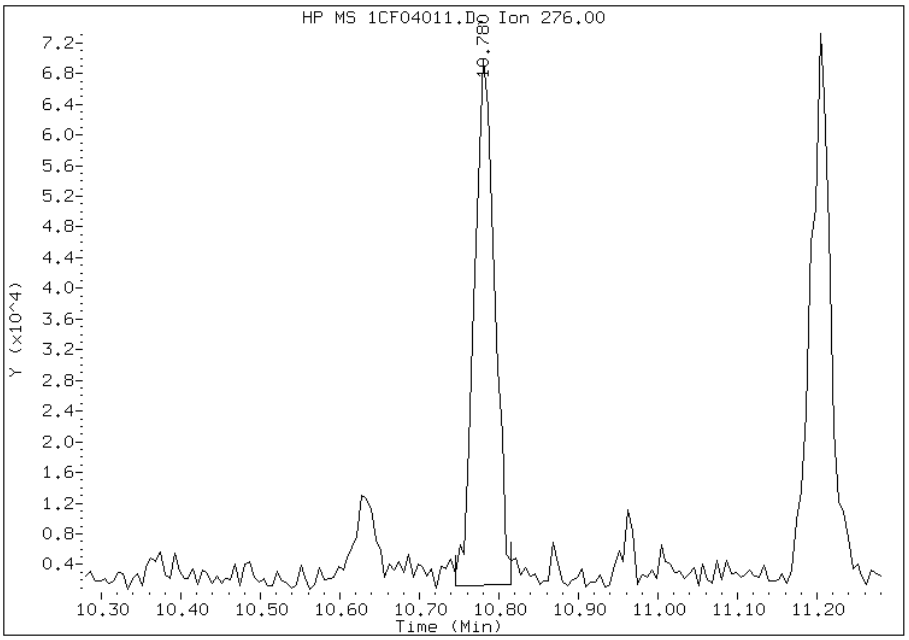
Processing Integration Results

RT: 10.78

Response: 122935

Amount: 2

Conc: 123



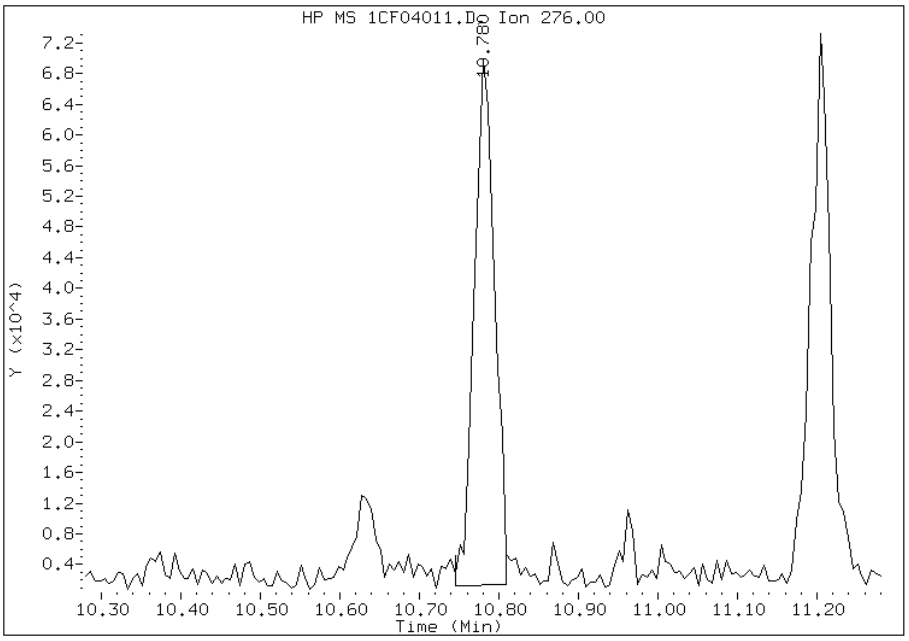
Manual Integration Results

RT: 10.78

Response: 121815

Amount: 2

Conc: 122



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1163B-CS | Lab Sample ID: 680-90723-5

Matrix: Solid | Lab File ID: 1CF04012.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:42

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

Sample wt/vol: 15.04(g) | Date Analyzed: 06/04/2013 13:39

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	38	J	200	25
120-12-7	Anthracene	38	J	42	21
56-55-3	Benzo[a]anthracene	330		40	19
50-32-8	Benzo[a]pyrene	310		52	26
205-99-2	Benzo[b]fluoranthene	460		61	30
191-24-2	Benzo[g,h,i]perylene	260		100	22
207-08-9	Benzo[k]fluoranthene	130		40	18
218-01-9	Chrysene	400		45	22
53-70-3	Dibenz(a,h)anthracene	80	J	100	20
206-44-0	Fluoranthene	390		100	20
86-73-7	Fluorene	100	U	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	220		100	35
90-12-0	1-Methylnaphthalene	130	J	200	22
91-57-6	2-Methylnaphthalene	160	J	200	35
91-20-3	Naphthalene	110	J	200	22
85-01-8	Phenanthrene	290	B	40	19
129-00-0	Pyrene	410		100	18

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\1C060413.b\1CF04012.D
Lab Smp Id: 680-90723-A-5-A Client Smp ID: CV1163B-CS
Inj Date : 04-JUN-2013 13:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-5-a
Misc Info : 680-90723-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	20.141	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2810902	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1914724	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3364160	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	88904	1.69648	564.9810
* 18 Chrysene-d12	240	8.062	8.068	(1.000)	3408765	40.0000	
* 23 Perylene-d12	264	9.403	9.409	(1.000)	3270923	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	25946	0.32709	108.9319
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	21664	0.49238	163.9792
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	16785	0.38775	129.1321
5 Acenaphthylene	152	5.045	5.045	(0.983)	8331	0.11350	37.7984
7 Acenaphthene	154	5.127	5.151	(0.999)	8571	0.18620	62.0116(Q)
9 Fluorene	166	5.474	5.480	(1.066)	2610	0.04444	14.7994(Q)
11 Phenanthrene	178	6.115	6.121	(1.002)	86393	0.86922	289.4776
12 Anthracene	178	6.151	6.157	(1.008)	10602	0.11514	38.3449

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.251	6.257	(1.024)	11264	0.24581	81.8631(Q)
15 Fluoranthene	202	6.968	6.968	(1.142)	118367	1.16513	388.0236
16 Pyrene	202	7.139	7.145	(0.885)	112124	1.21811	405.6704
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	94253	1.00275	333.9460
19 Chrysene	228	8.086	8.092	(1.003)	113350	1.19775	398.8880
20 Benzo(b)fluoranthene	252	8.997	9.004	(0.957)	110326	1.37281	457.1902
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.959)	35376	0.39412	131.2550(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	68309	0.93190	310.3508
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	43413	0.65468	218.0301(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	16800	0.24064	80.1397(M)
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	58390	0.76840	255.9031

QC Flag Legend

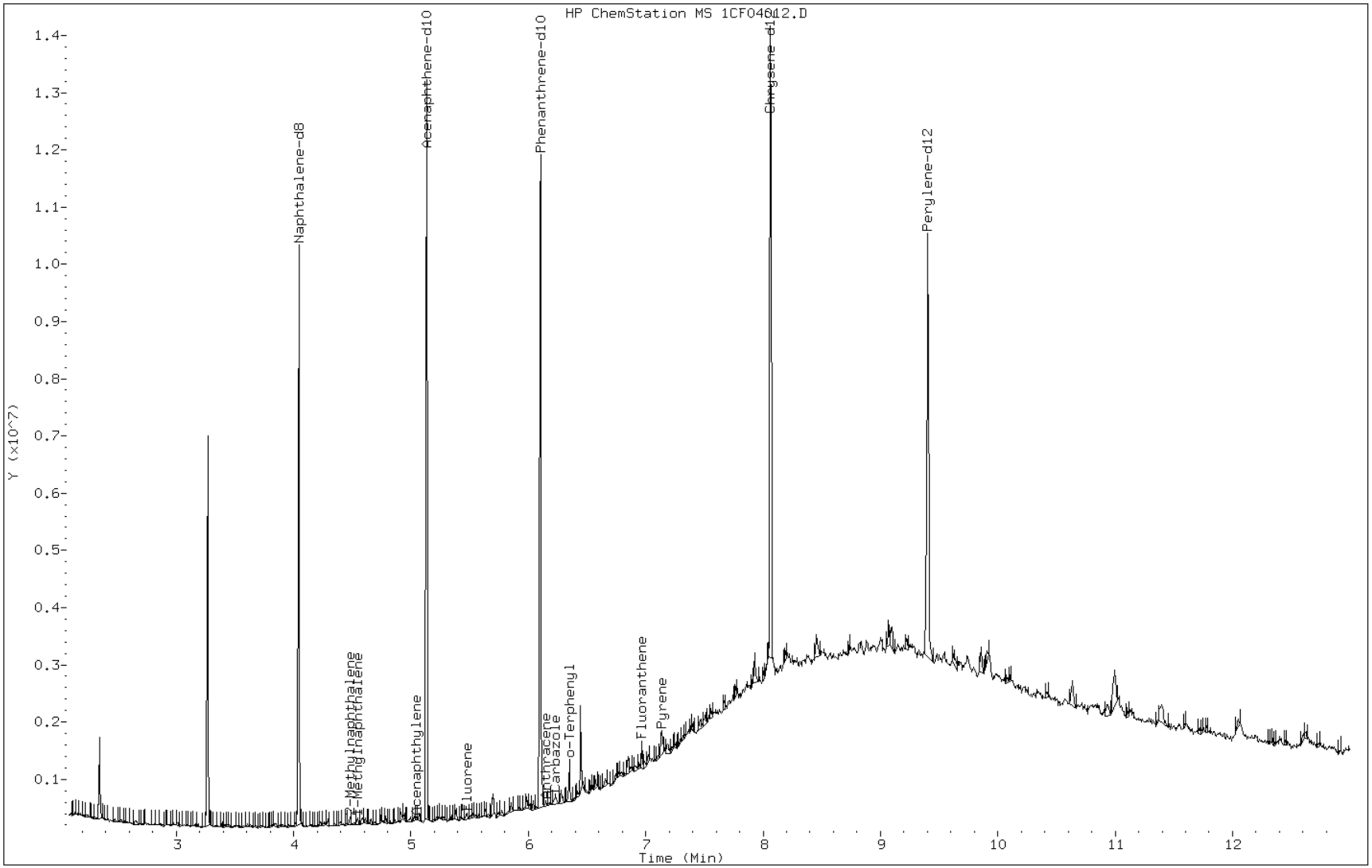
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC



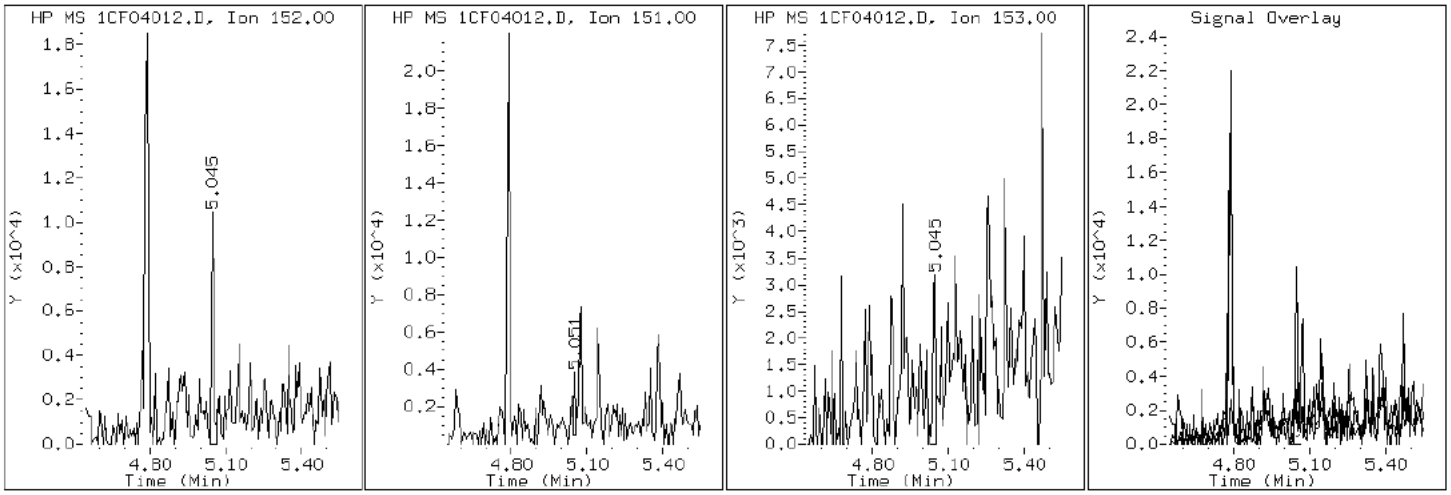
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

5 Acenaphthylene



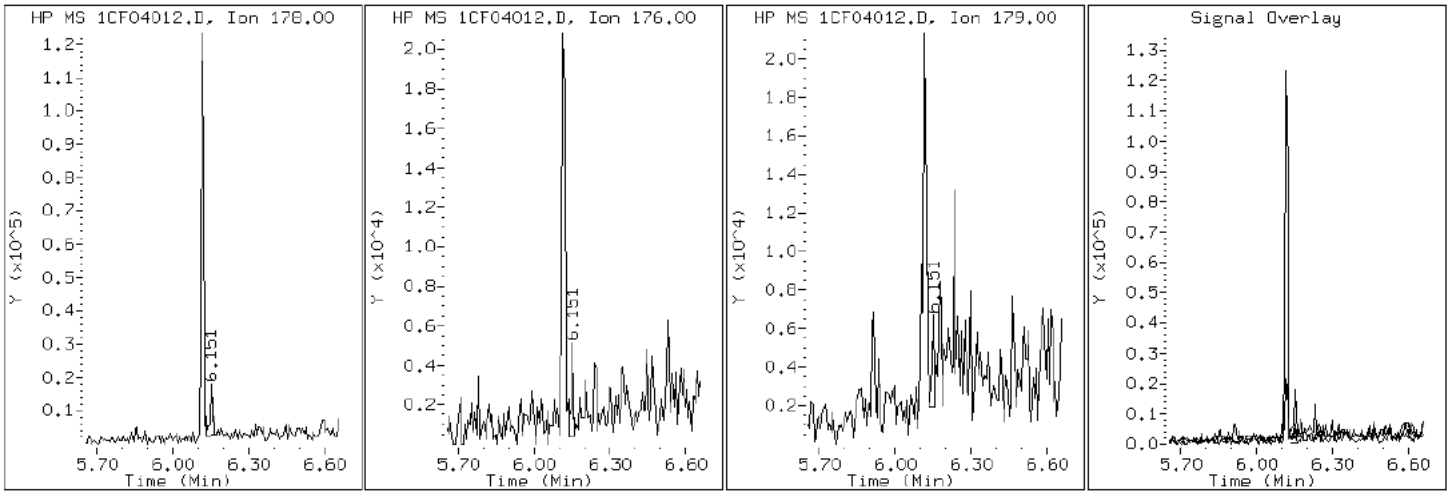
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

12 Anthracene



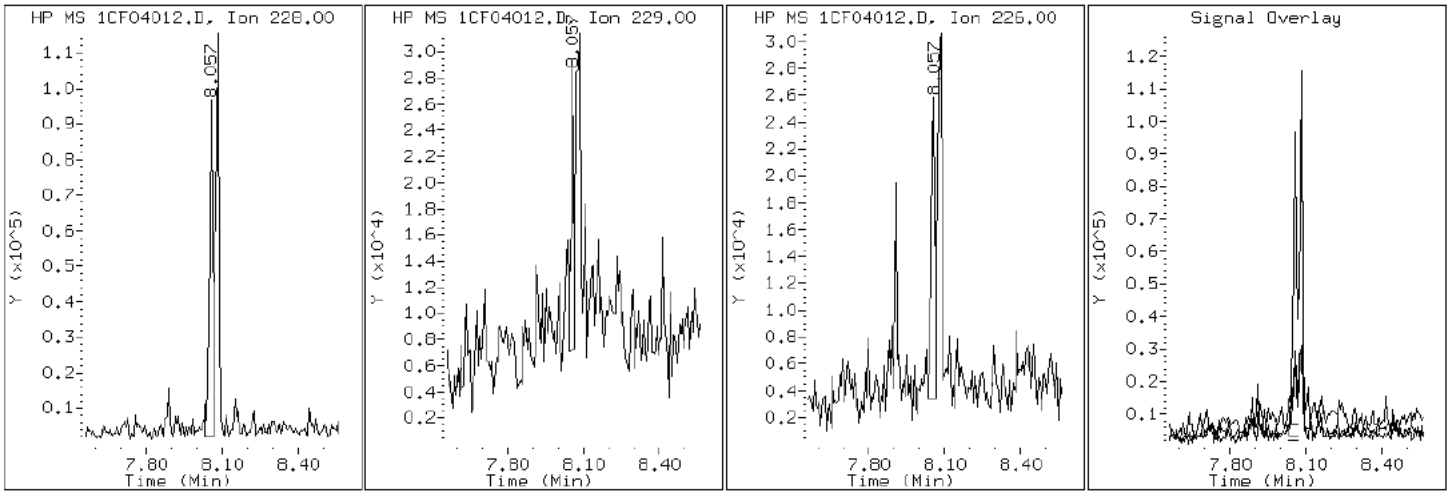
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

17 Benzo(a)anthracene



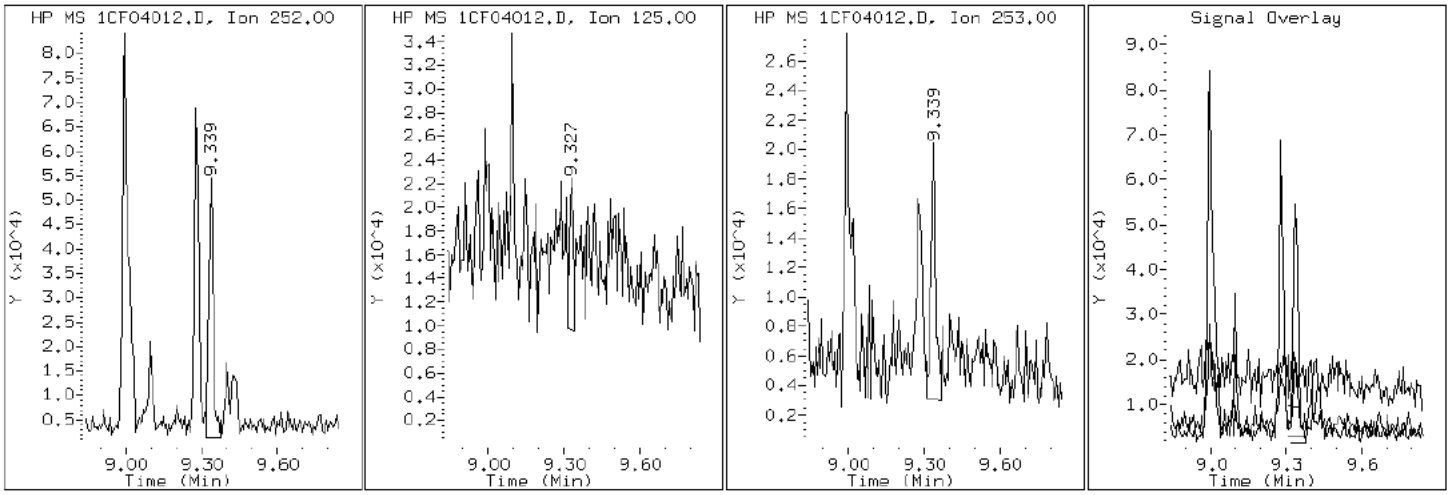
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

22 Benzo(a)pyrene



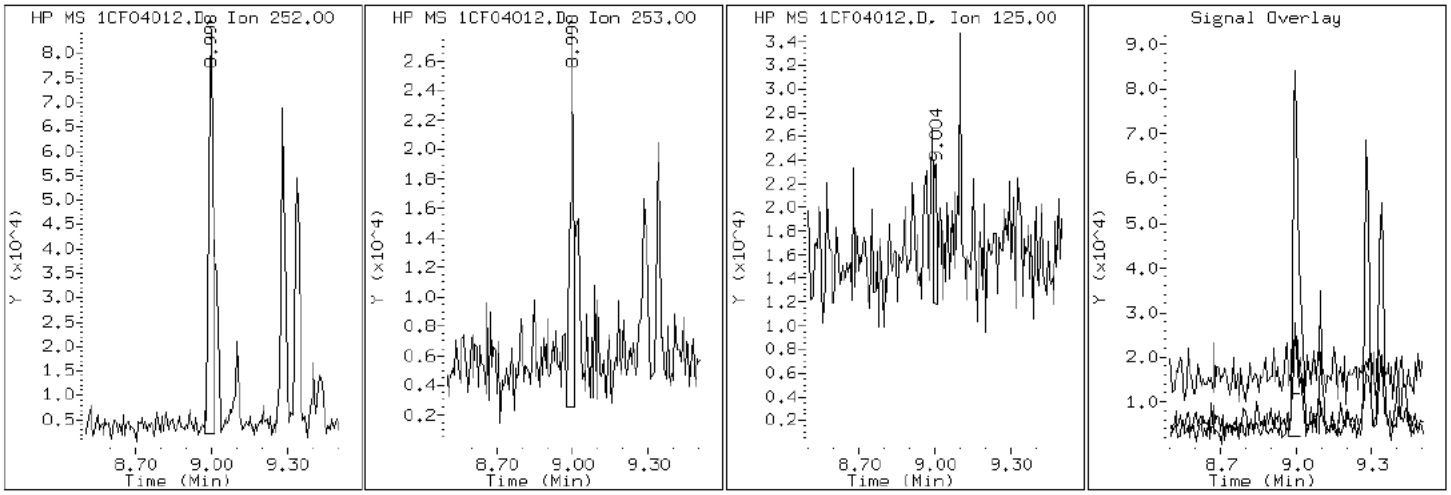
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



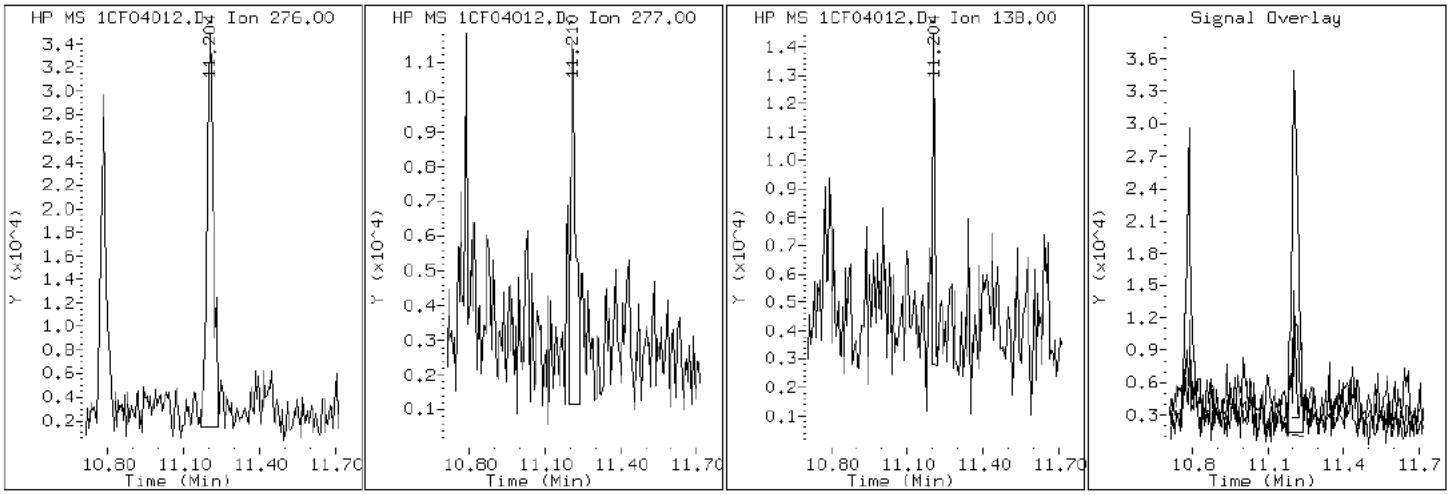
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



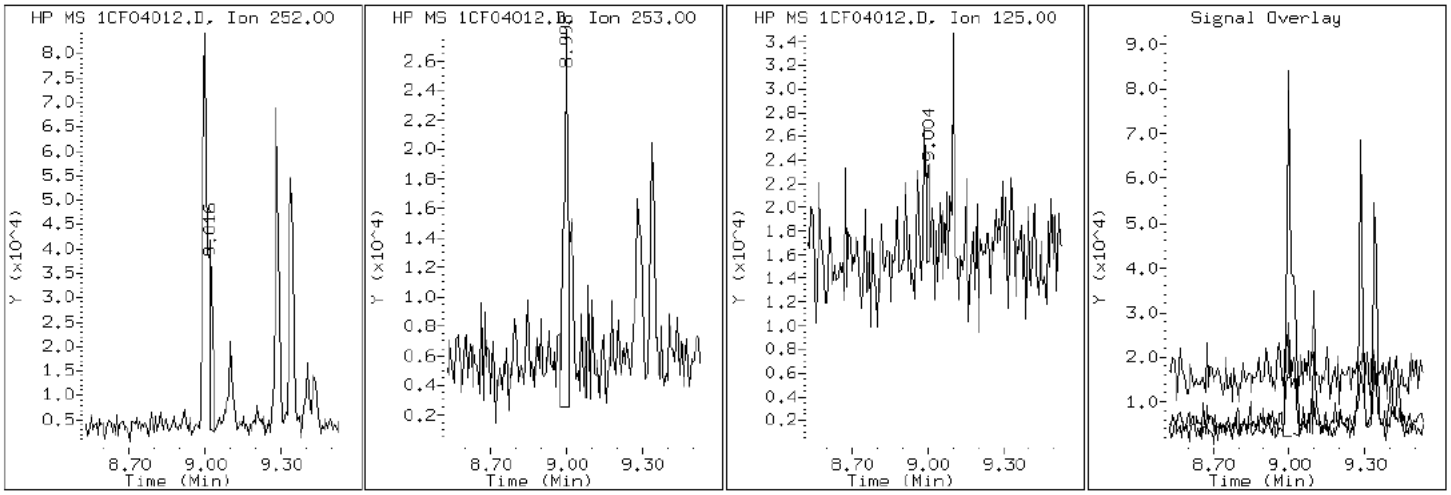
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



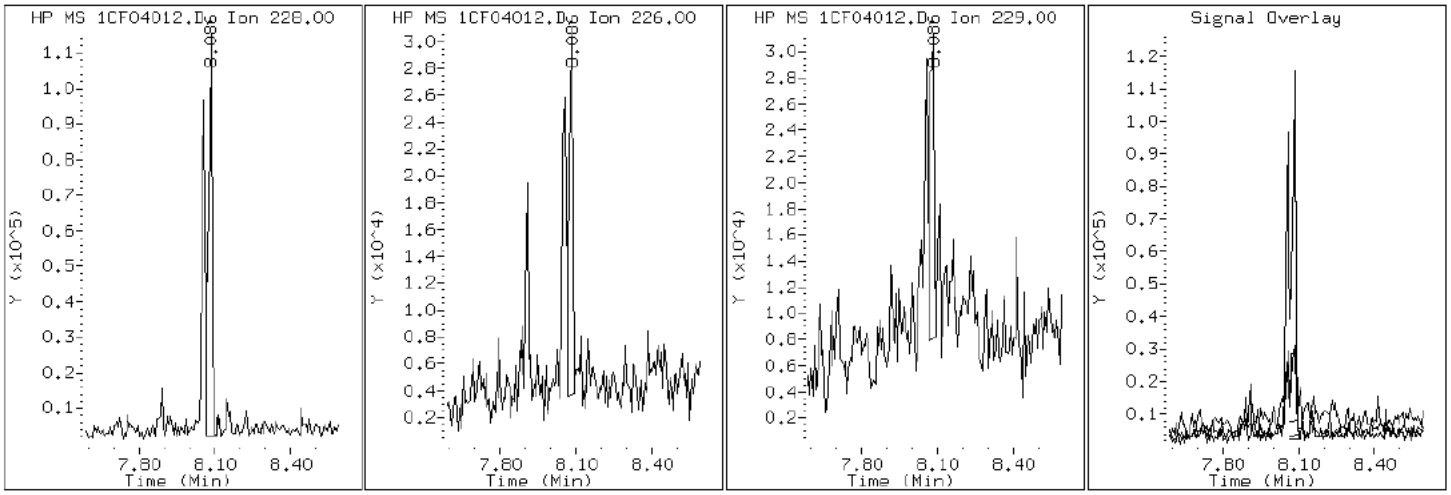
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

19 Chrysene



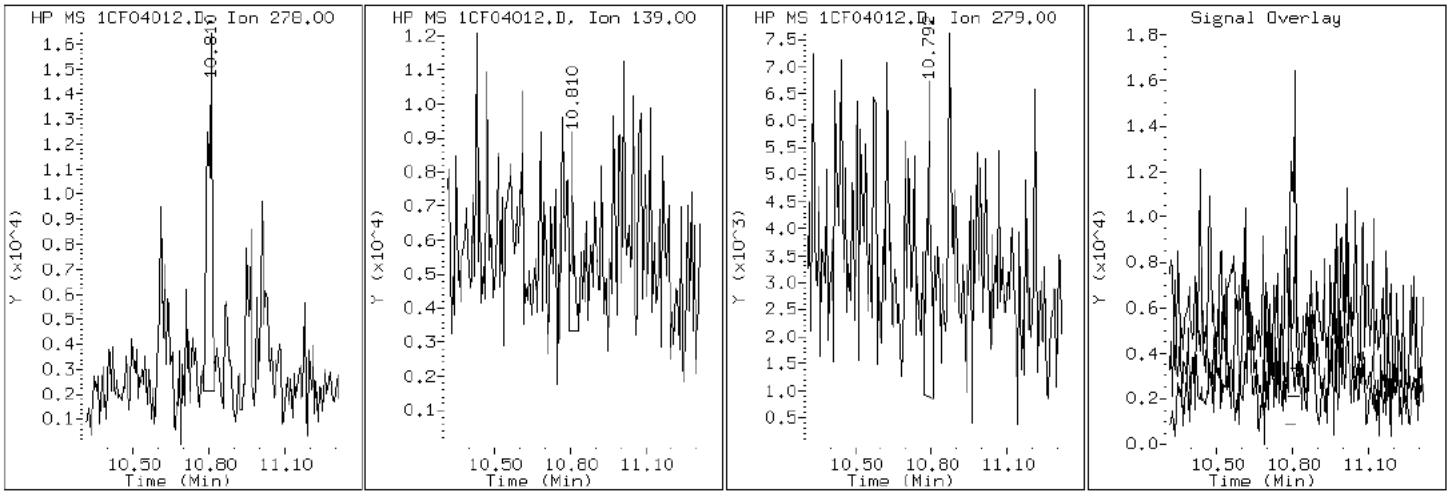
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



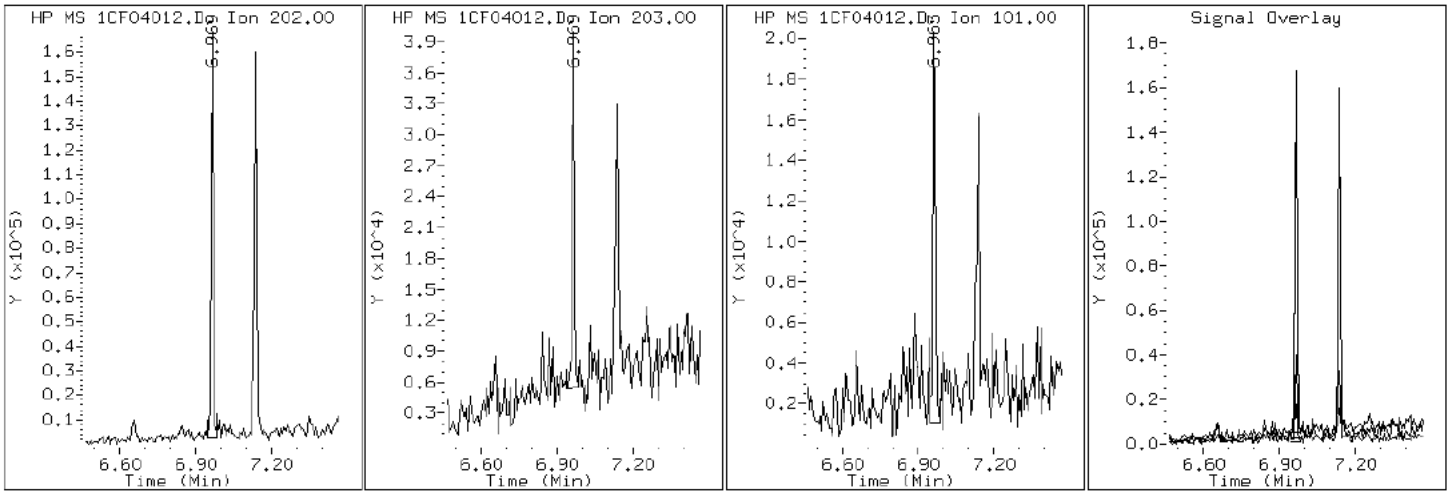
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

15 Fluoranthene



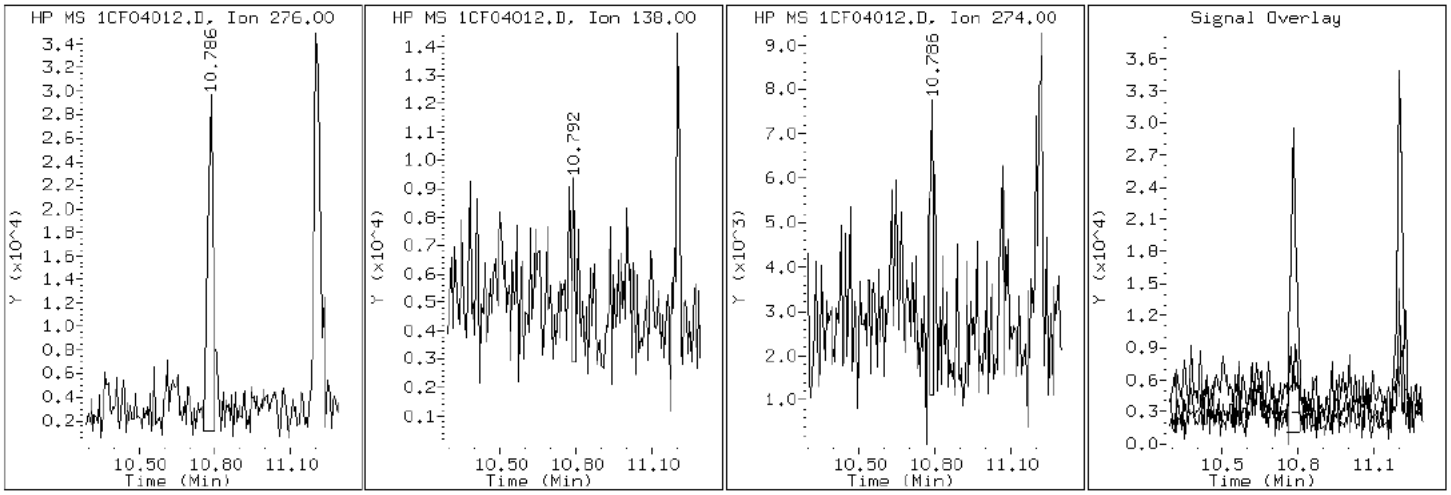
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

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



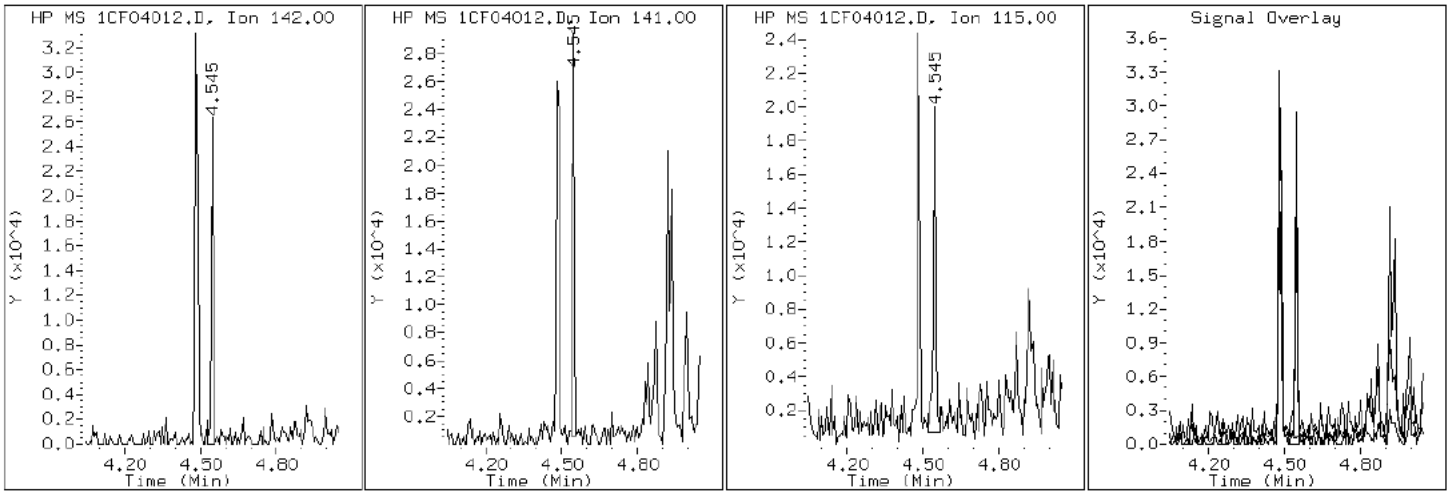
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

4 1-Methylnaphthalene



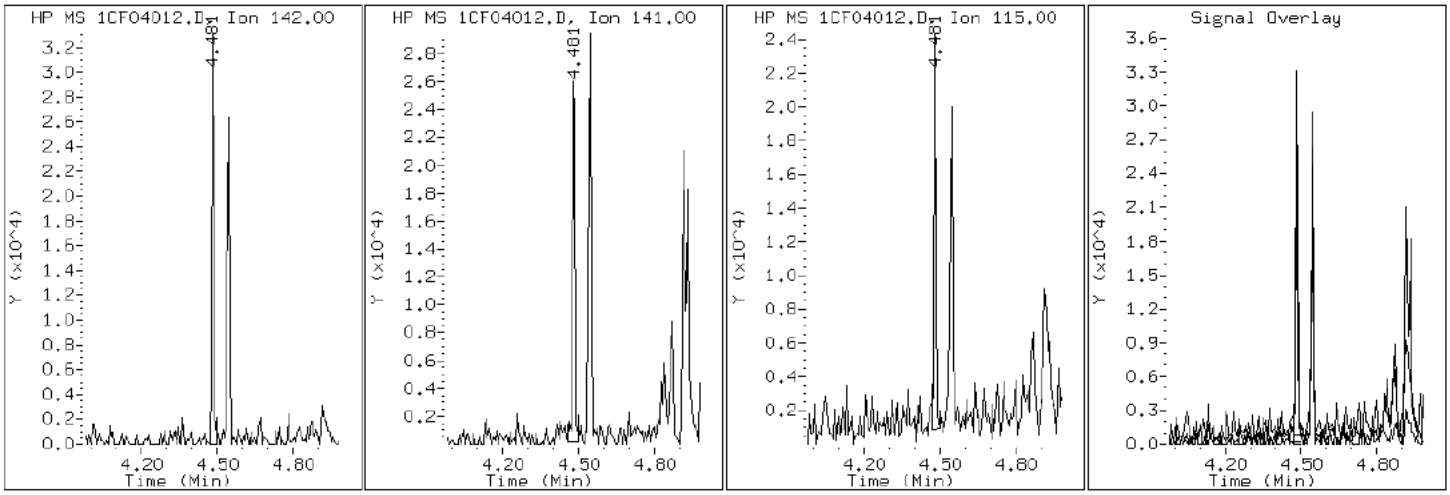
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

3 2-Methylnaphthalene



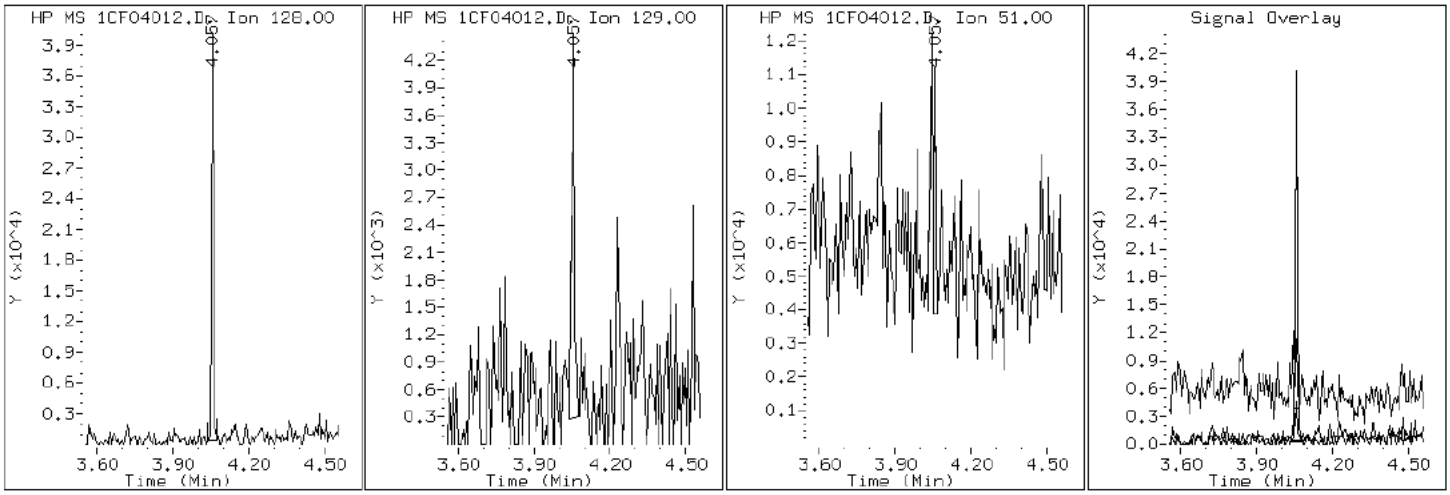
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

2 Naphthalene



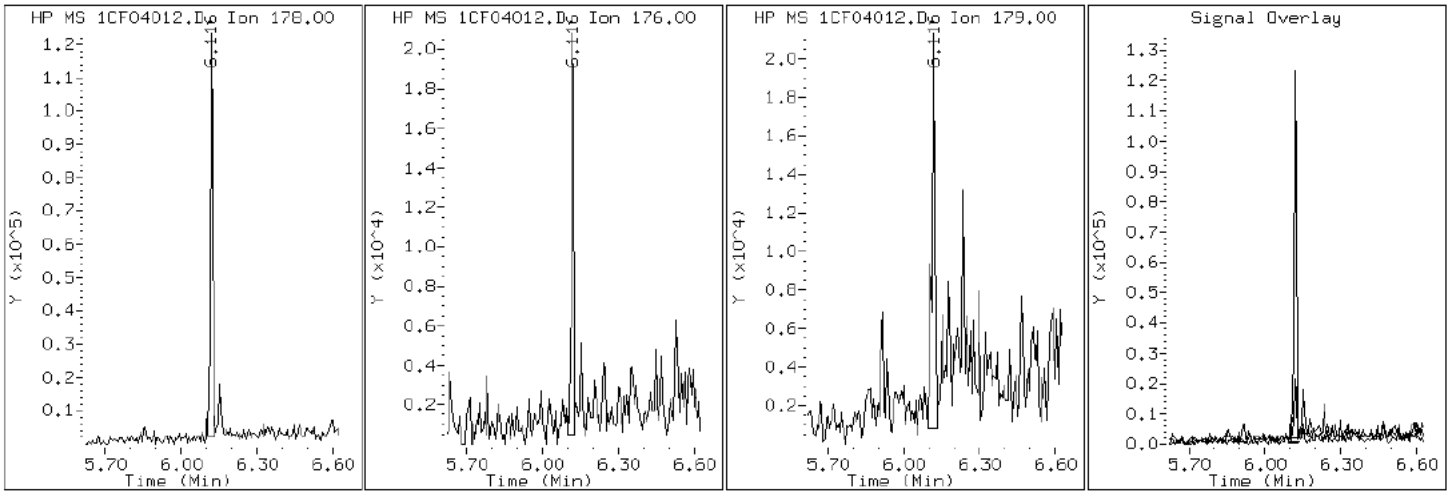
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

11 Phenanthrene



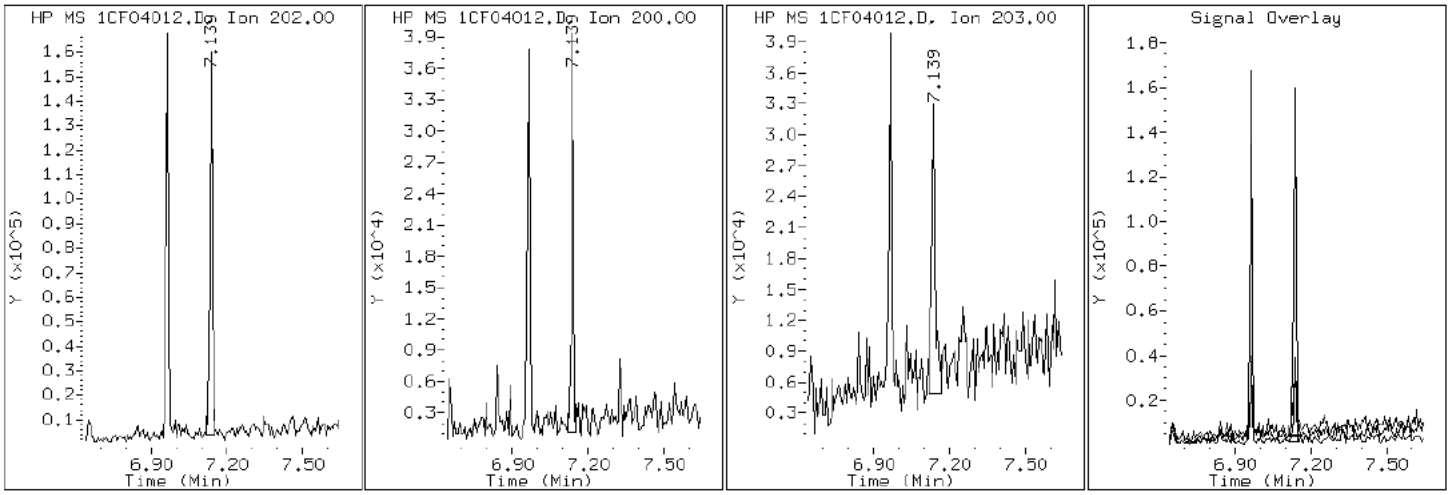
Data File: 1CF04012.D

Date: 04-JUN-2013 13:39

Client ID: CV1163B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04012.D
Inj. Date and Time: 04-JUN-2013 13:39
Instrument ID: BSMC5973.i
Client ID: CV1163B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

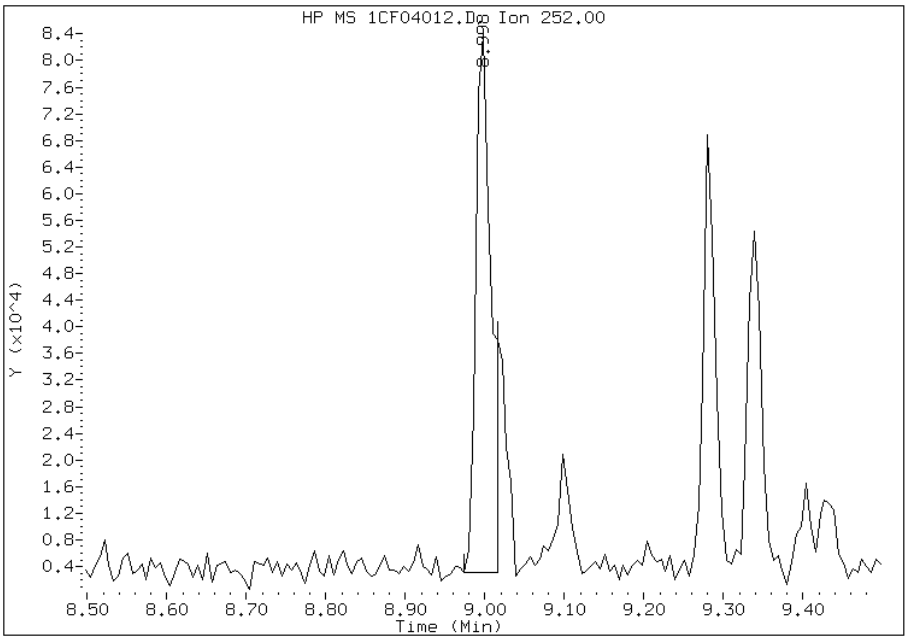
Processing Integration Results

RT: 9.00

Response: 107810

Amount: 1

Conc: 400



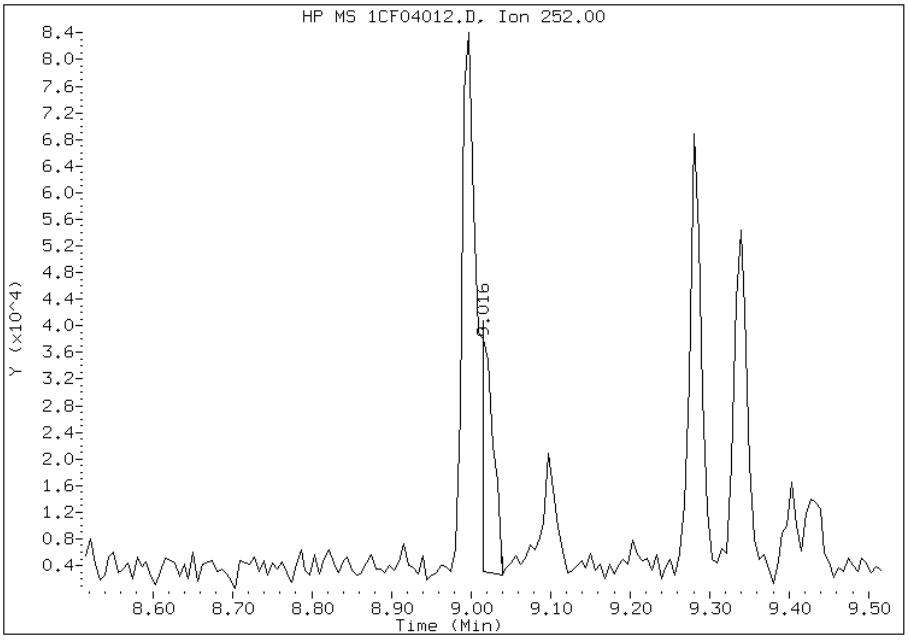
Manual Integration Results

RT: 9.02

Response: 35376

Amount: 0

Conc: 131



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04012.D
Inj. Date and Time: 04-JUN-2013 13:39
Instrument ID: BSMC5973.i
Client ID: CV1163B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

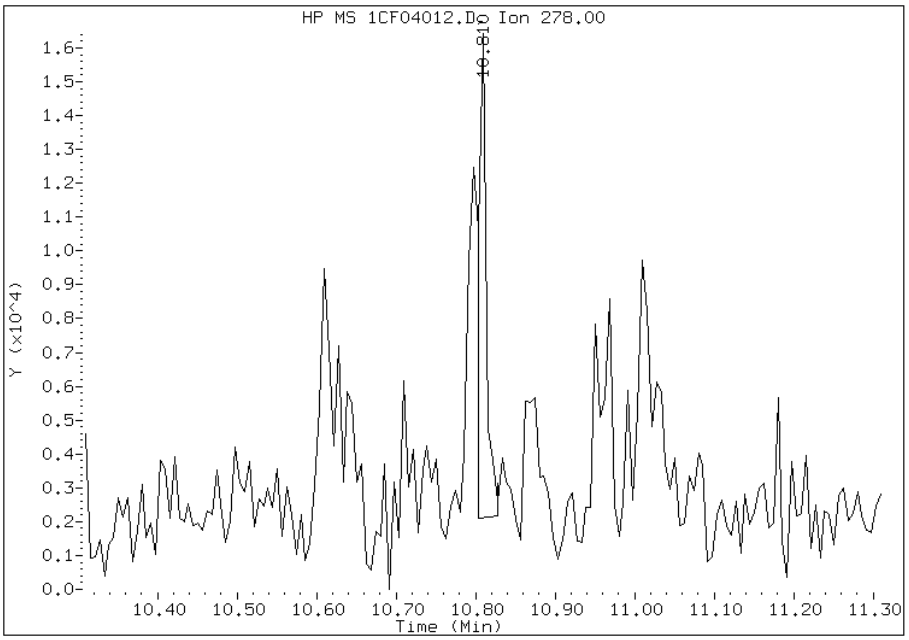
Processing Integration Results

RT: 10.81

Response: 9694

Amount: 0

Conc: 46



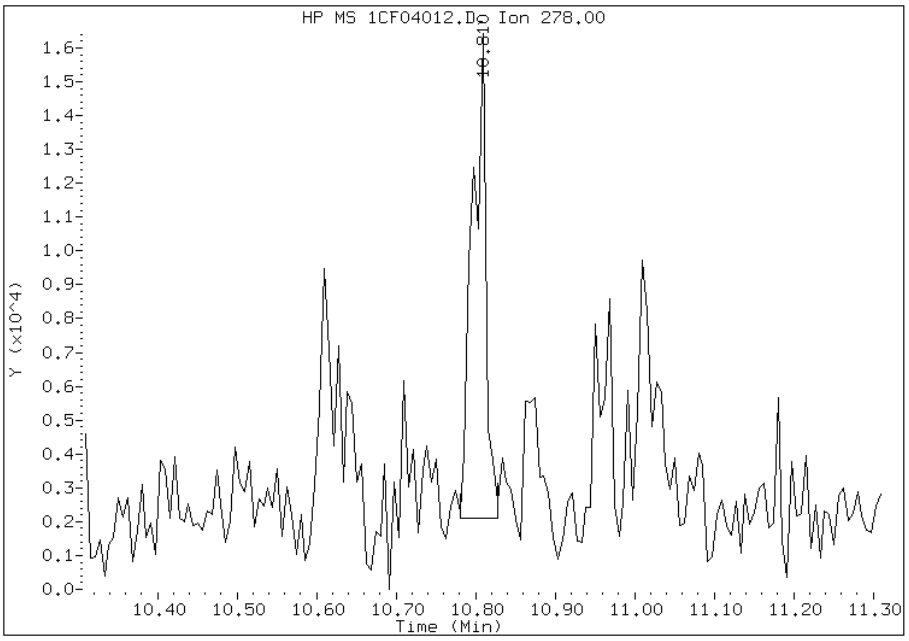
Manual Integration Results

RT: 10.81

Response: 16800

Amount: 0

Conc: 80



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04012.D
Inj. Date and Time: 04-JUN-2013 13:39
Instrument ID: BSMC5973.i
Client ID: CV1163B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

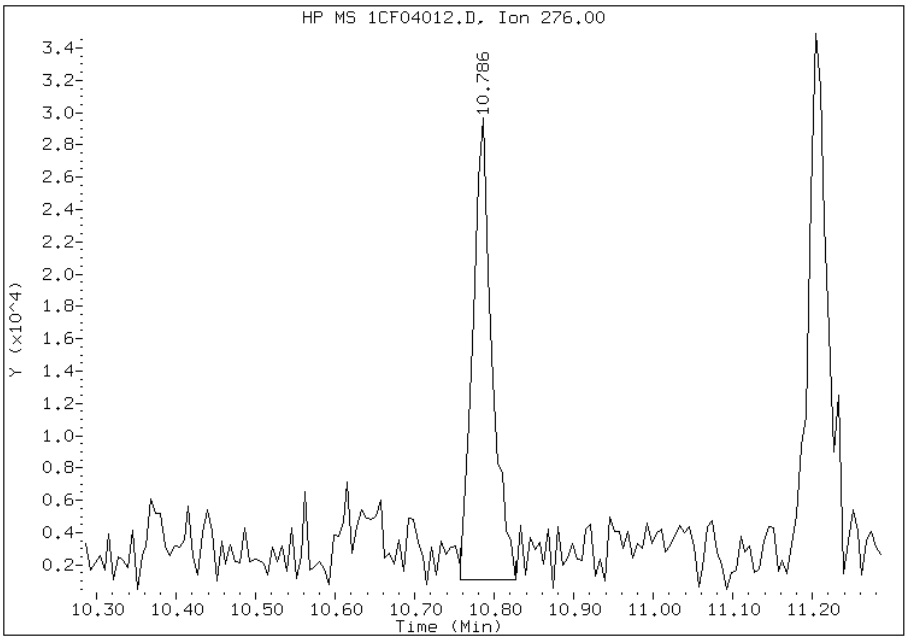
Processing Integration Results

RT: 10.79

Response: 47644

Amount: 1

Conc: 234



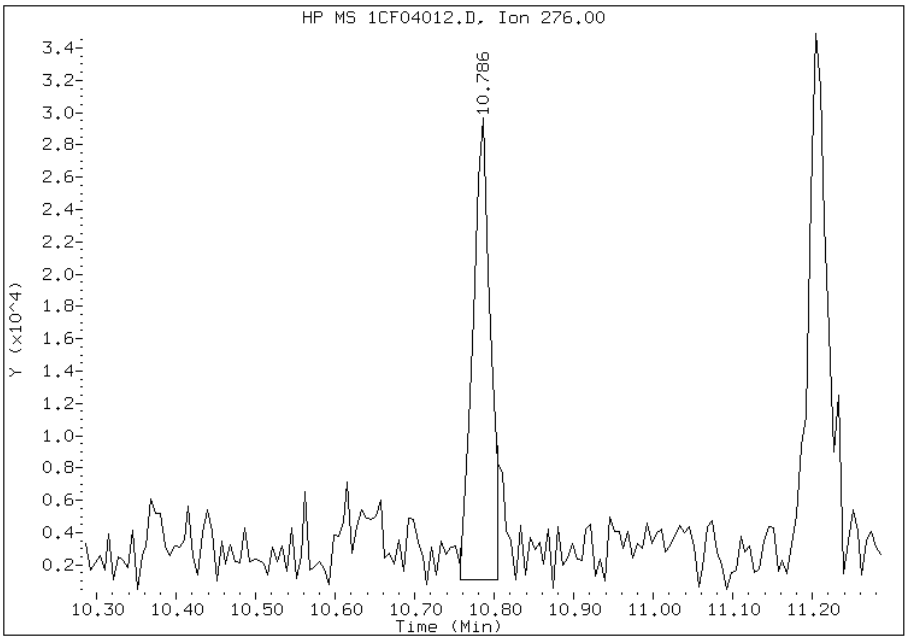
Manual Integration Results

RT: 10.79

Response: 43413

Amount: 1

Conc: 218



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1347A-CS | Lab Sample ID: 680-90723-6

Matrix: Solid | Lab File ID: 1CF04013.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 08:40

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

Sample wt/vol: 15.15(g) | Date Analyzed: 06/04/2013 13:58

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

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

% Moisture: 23.1 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140		130	26
208-96-8	Acenaphthylene	150		52	6.4
120-12-7	Anthracene	510		11	5.4
56-55-3	Benzo[a]anthracene	1800		10	5.0
50-32-8	Benzo[a]pyrene	1500		13	6.7
205-99-2	Benzo[b]fluoranthene	2500		16	7.9
191-24-2	Benzo[g,h,i]perylene	950		26	5.7
207-08-9	Benzo[k]fluoranthene	1000		10	4.6
218-01-9	Chrysene	2100		12	5.8
53-70-3	Dibenz(a,h)anthracene	360		26	5.3
206-44-0	Fluoranthene	3200		26	5.2
86-73-7	Fluorene	140		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	760		26	9.1
90-12-0	1-Methylnaphthalene	570		52	5.7
91-57-6	2-Methylnaphthalene	620		52	9.1
91-20-3	Naphthalene	480		52	5.7
85-01-8	Phenanthrene	2100	B	10	5.0
129-00-0	Pyrene	3100		26	4.8

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\1C060413.b\1CF04013.D
Lab Smp Id: 680-90723-A-6-A Client Smp ID: CV1347A-CS
Inj Date : 04-JUN-2013 13:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-6-a
Misc Info : 680-90723-A-6-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	23.131	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2679410	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1854172	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3251302	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	367999	7.26596	623.9188
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	3437656	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3292064	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	418334	5.53259	475.0770
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	304764	7.26666	623.9791
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	272649	6.60751	567.3787
	5 Acenaphthylene	152	5.045	5.045	(0.983)	120174	1.69066	145.1752
	7 Acenaphthene	154	5.151	5.151	(1.003)	75046	1.68360	144.5688
	9 Fluorene	166	5.474	5.480	(1.066)	92179	1.62072	139.1689
	11 Phenanthrene	178	6.116	6.121	(1.002)	2348930	24.4535	2099.7881
	12 Anthracene	178	6.151	6.157	(1.008)	528384	5.93750	509.8460

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	216262	2.71678	233.2866
15 Fluoranthene	202	6.968	6.968	(1.142)	3708509	37.7712	3243.3649
16 Pyrene	202	7.145	7.145	(0.886)	3304680	35.6003	3056.9502
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	2004619	21.1476	1815.9220
19 Chrysene	228	8.086	8.092	(1.002)	2309665	24.2007	2078.0821
20 Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	2345875	29.0028	2490.4371
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	1101421	12.1921	1046.9172(Q)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	1428862	17.3743	1491.9132
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.148)	762225	8.81535	756.9634(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	297882	4.23935	364.0278
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.193)	850250	11.1173	954.6305(M)

QC Flag Legend

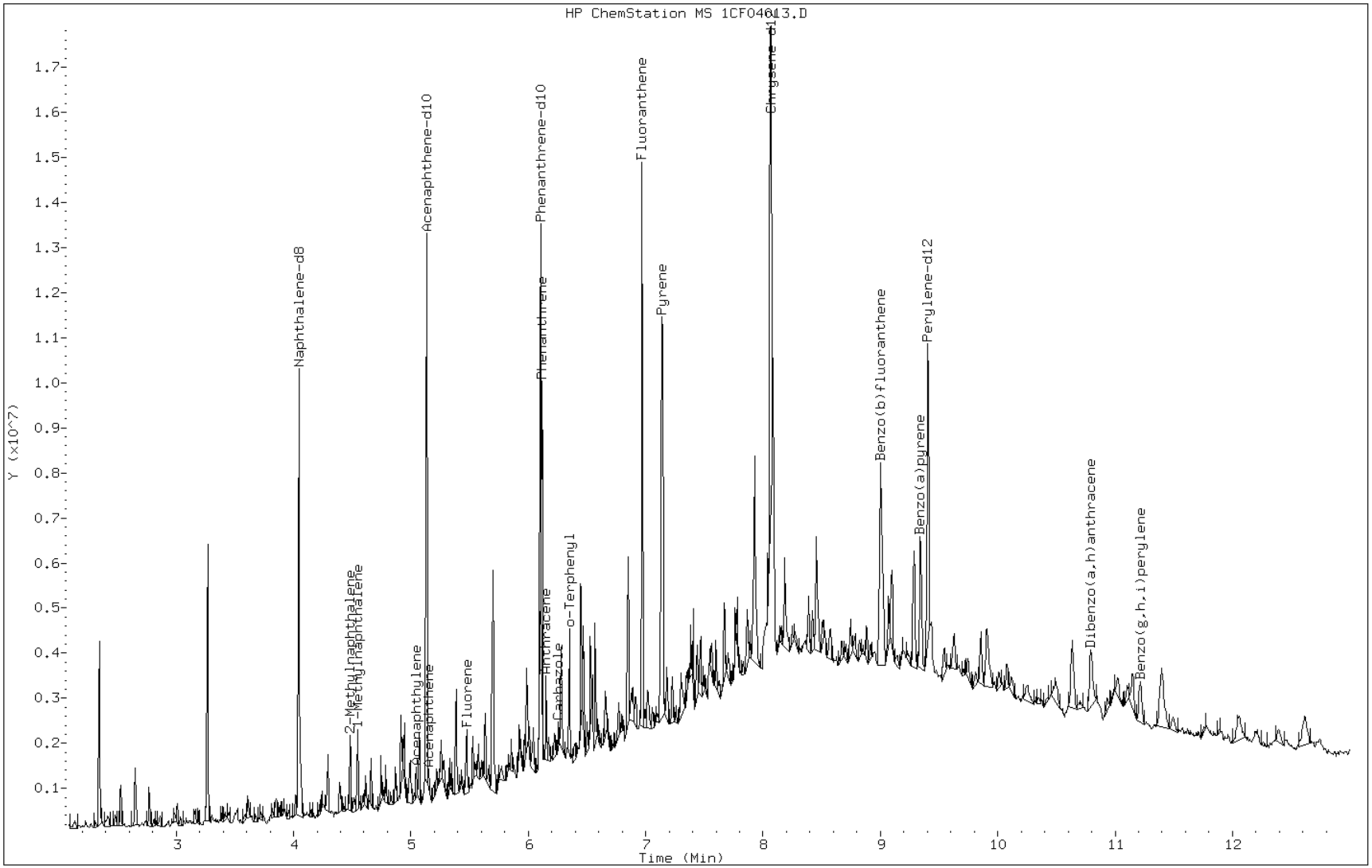
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC



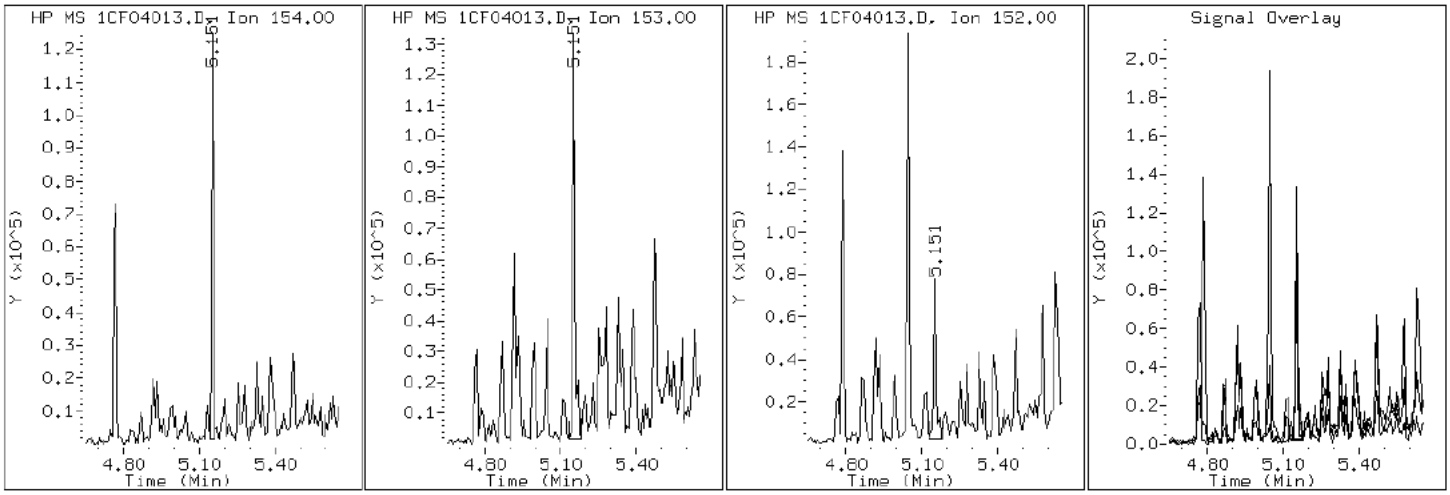
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

7 Acenaphthene



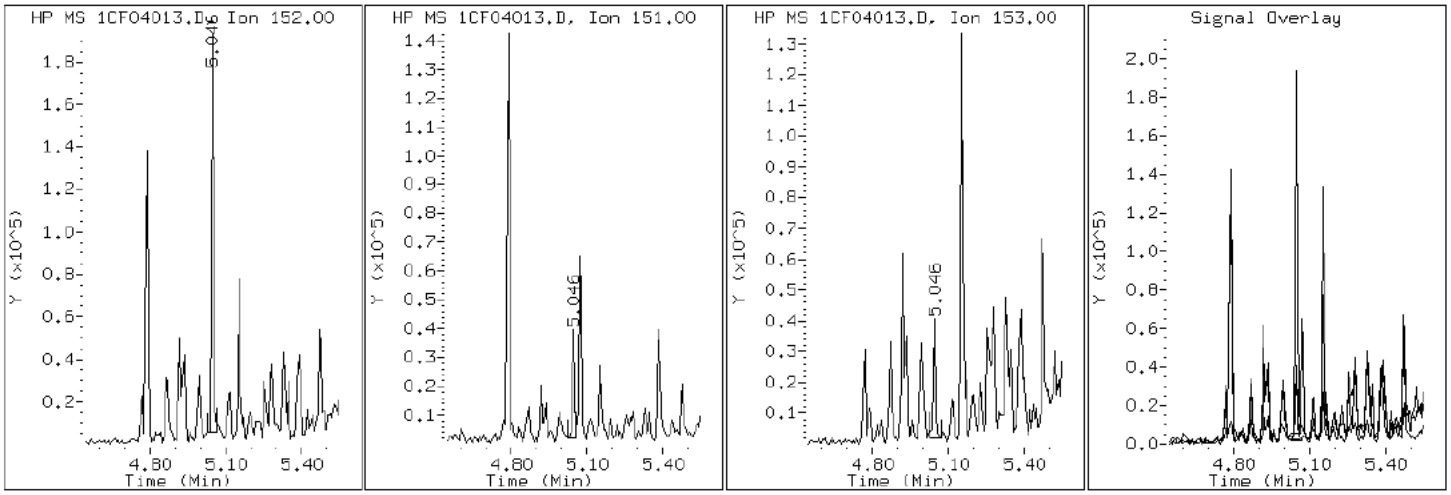
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

5 Acenaphthylene



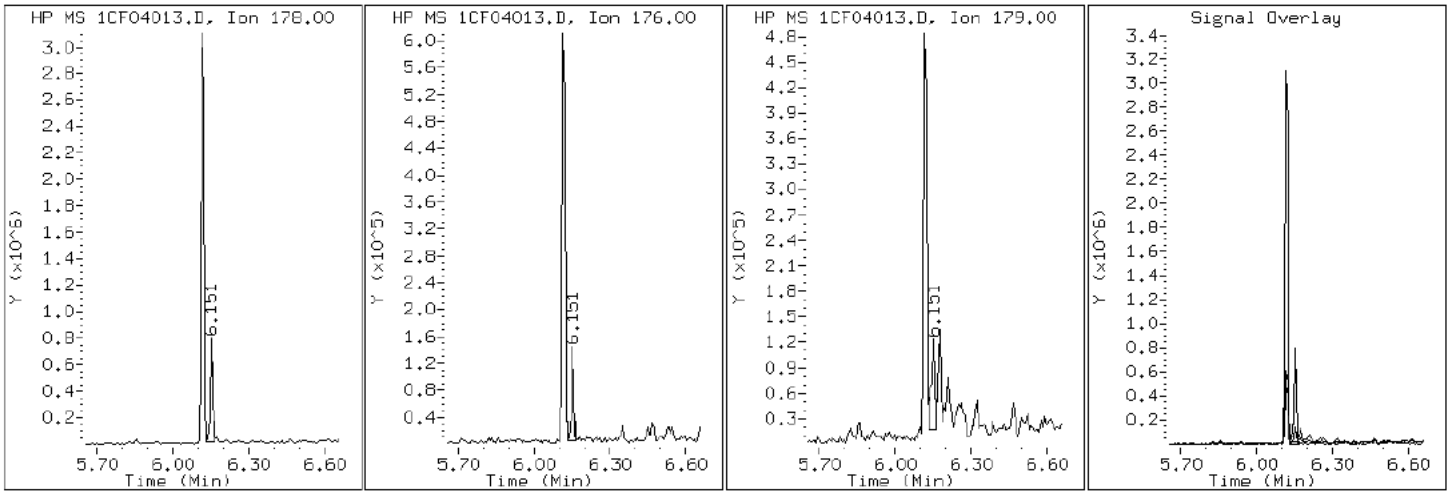
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

12 Anthracene



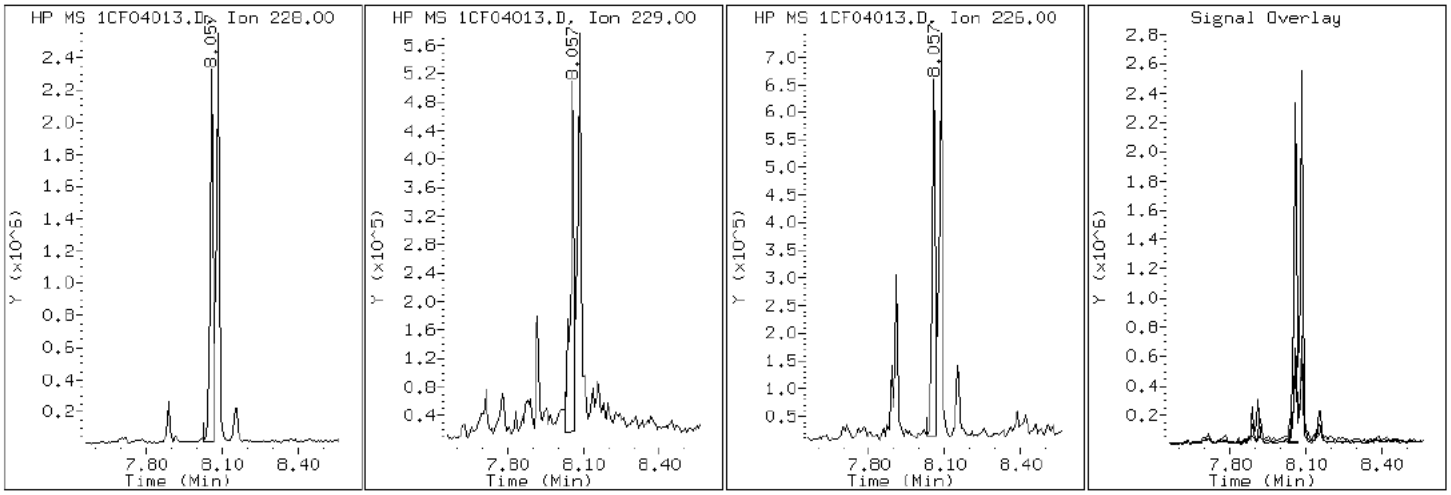
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

17 Benzo(a)anthracene



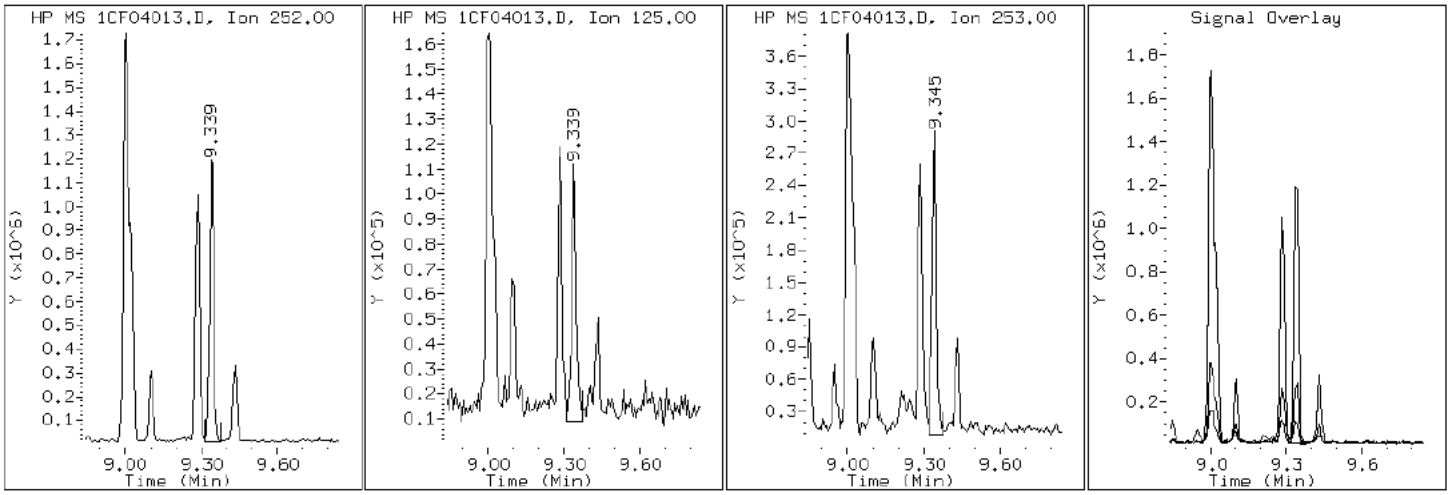
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

22 Benzo(a)pyrene



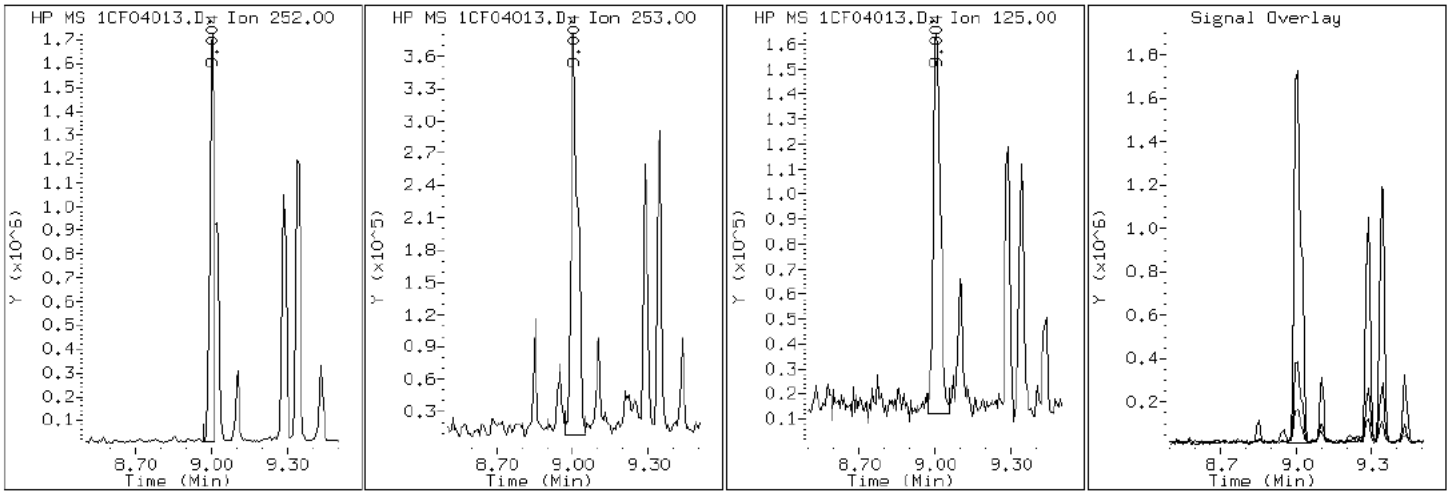
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



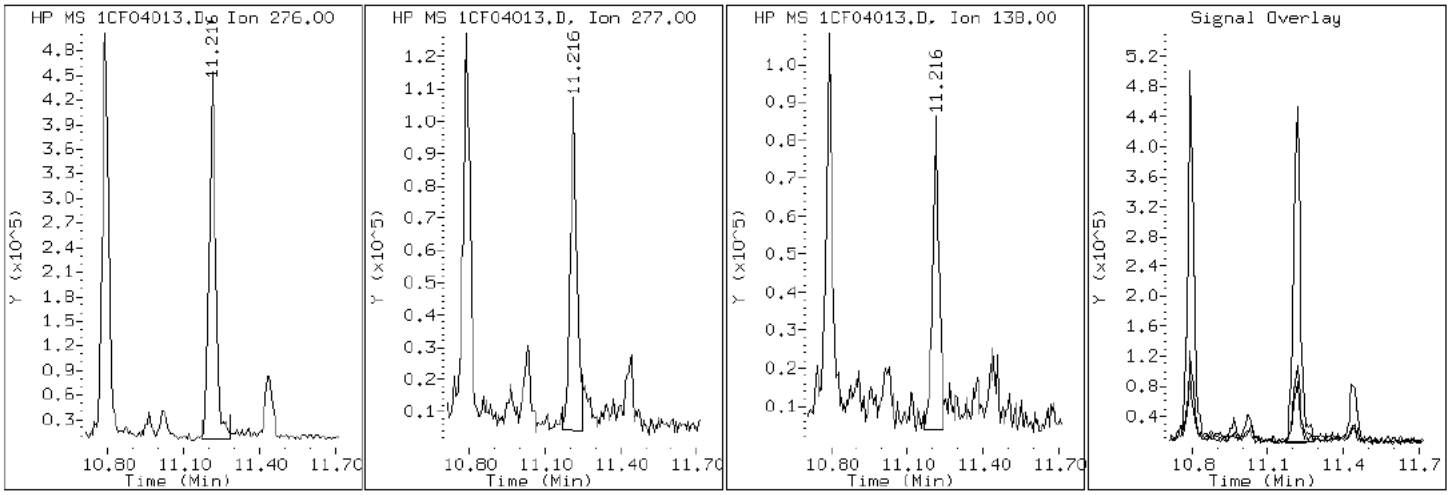
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



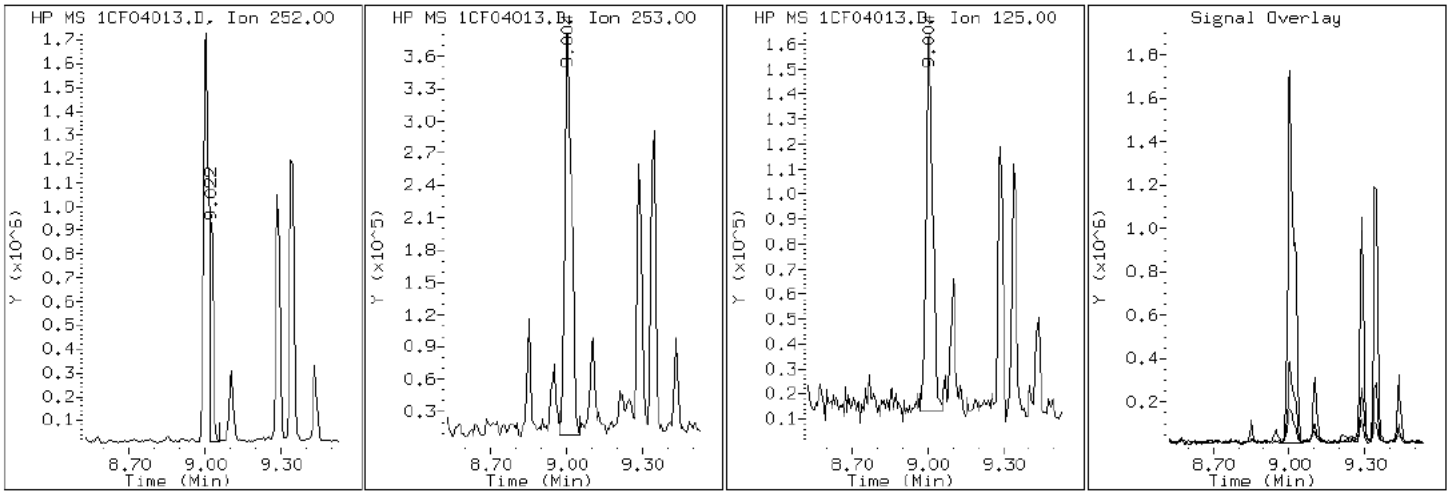
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



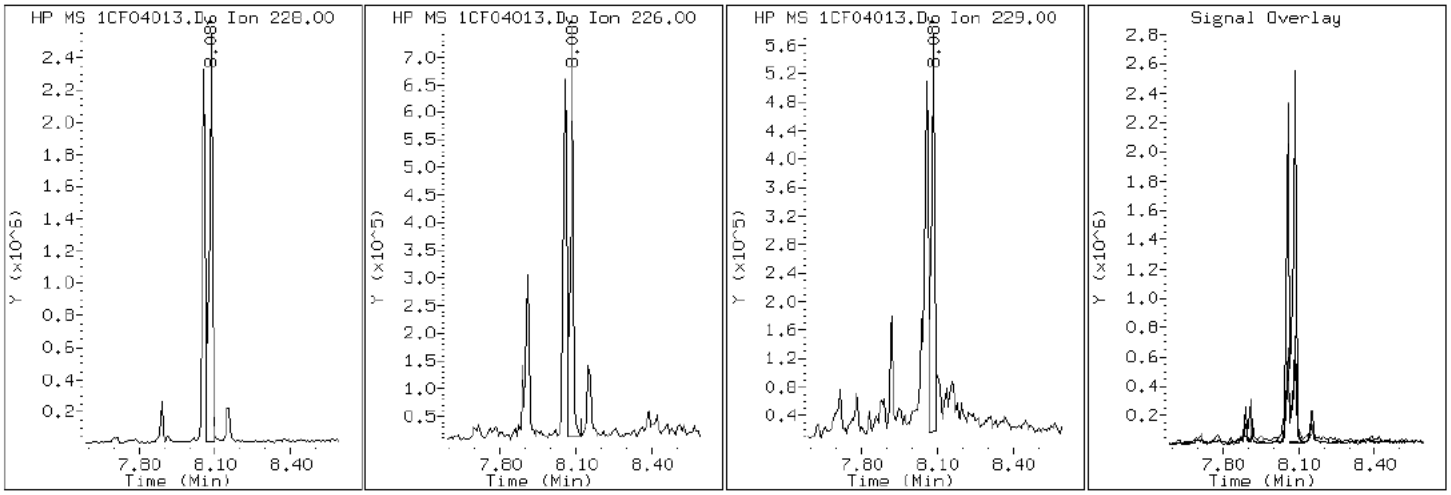
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

19 Chrysene



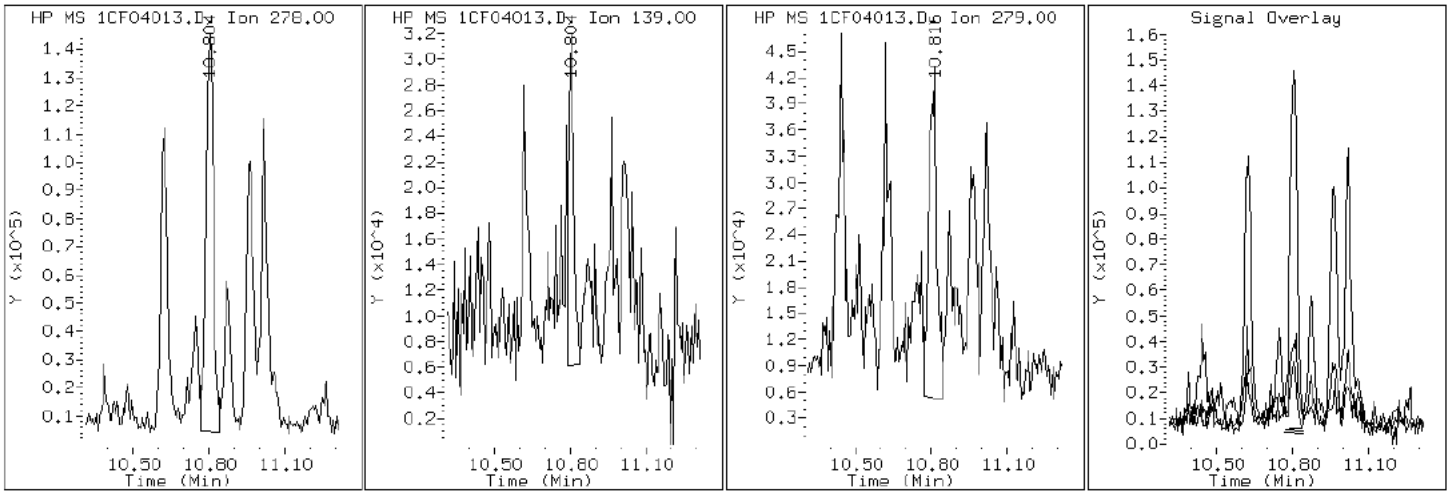
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



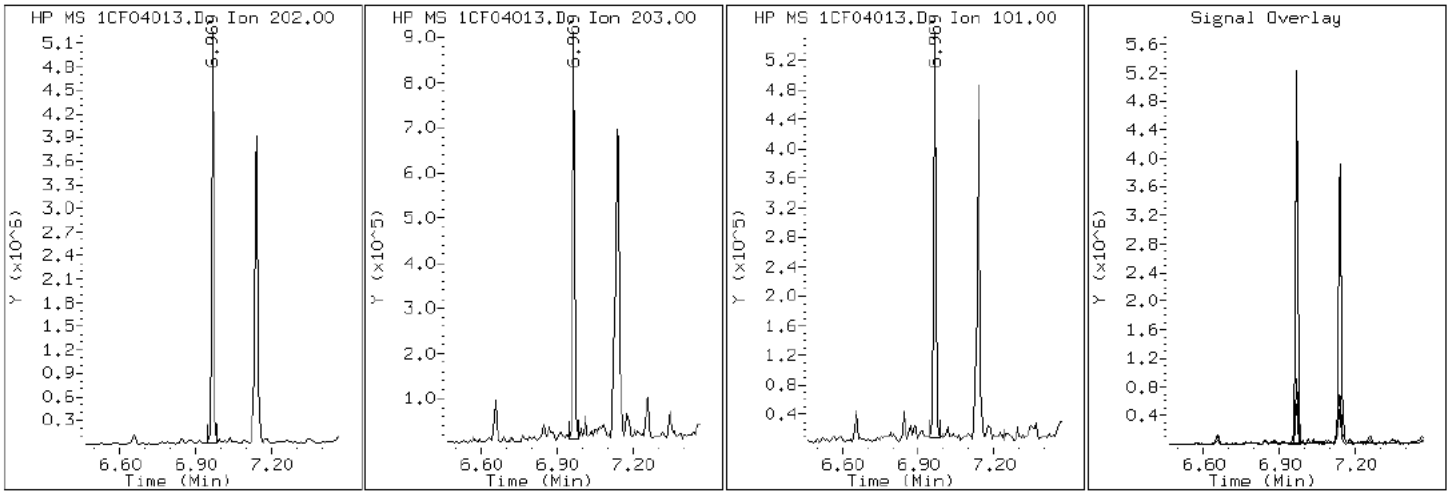
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

15 Fluoranthene



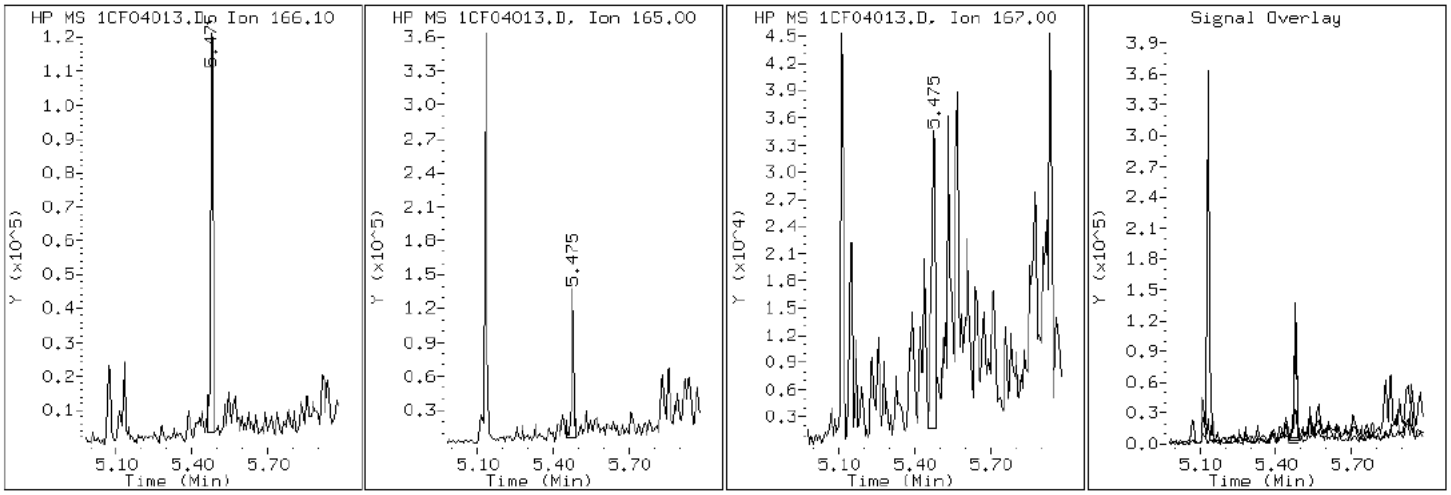
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

9 Fluorene



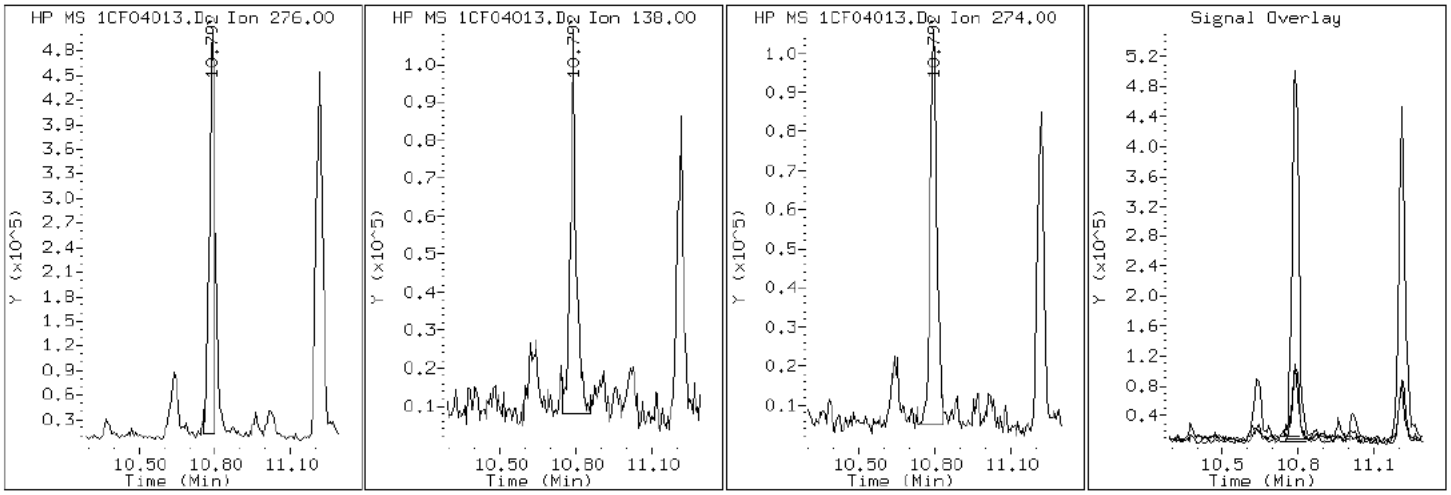
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

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



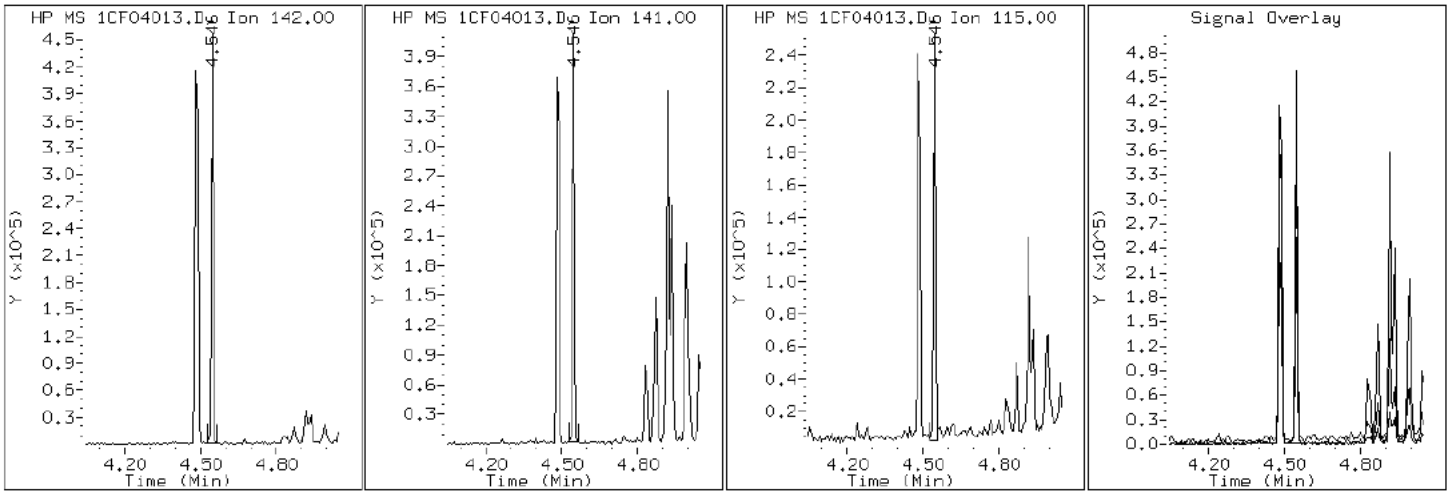
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

4 1-Methylnaphthalene



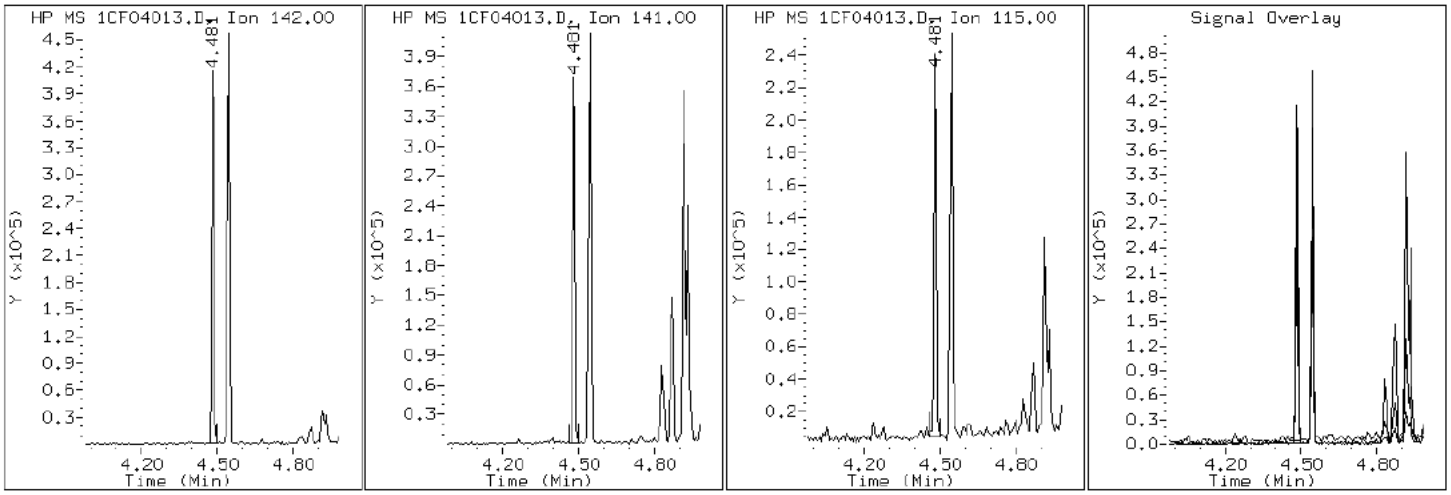
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

3 2-Methylnaphthalene



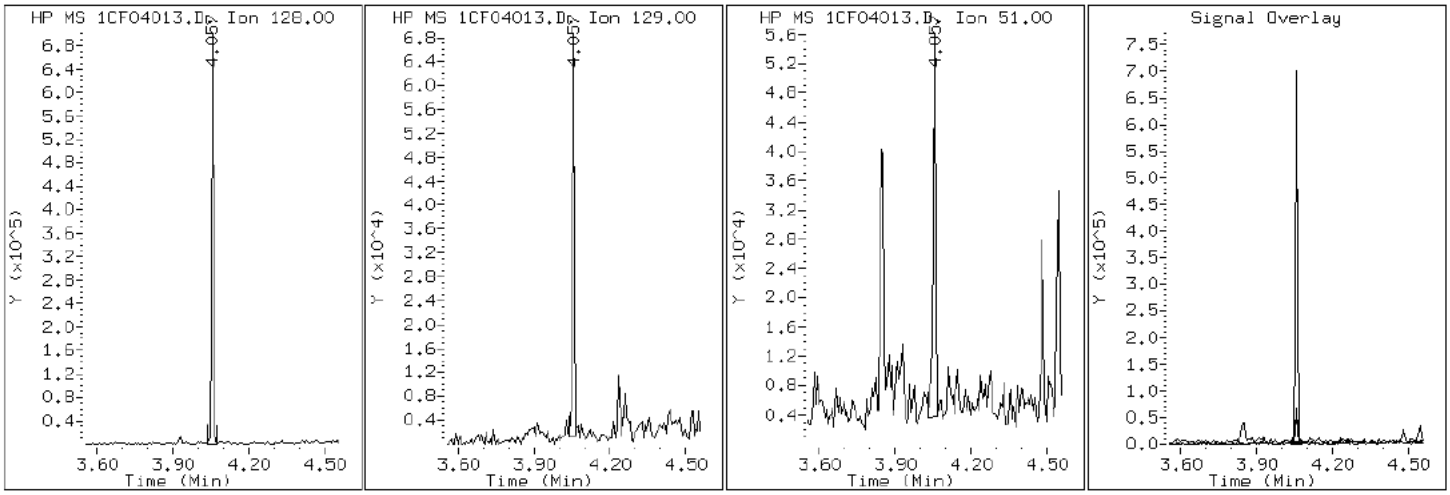
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

2 Naphthalene



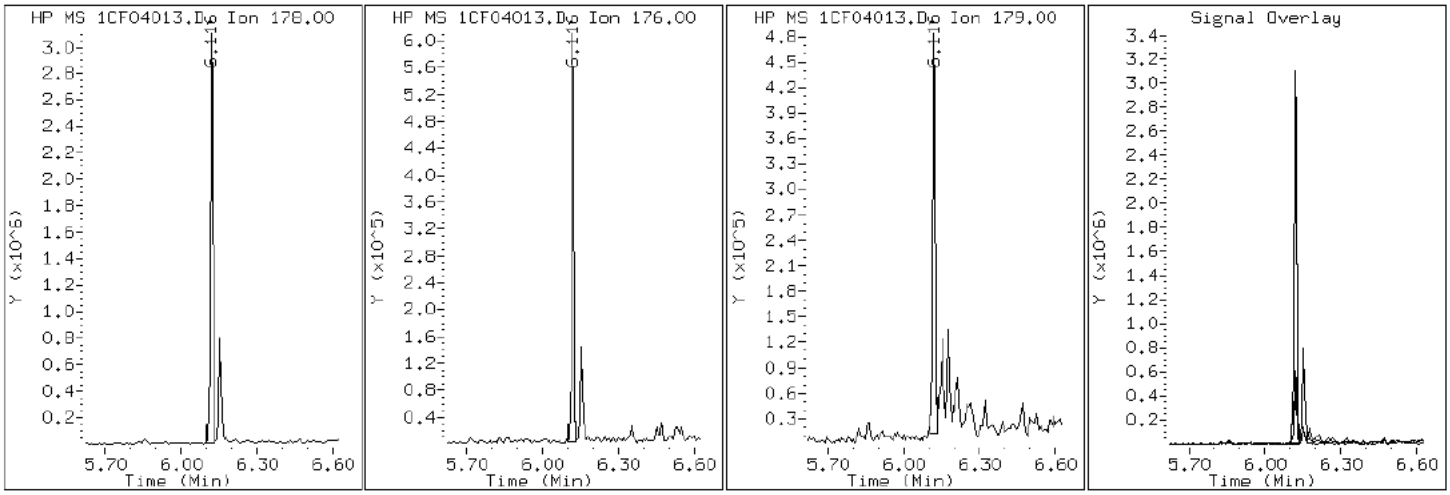
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

11 Phenanthrene



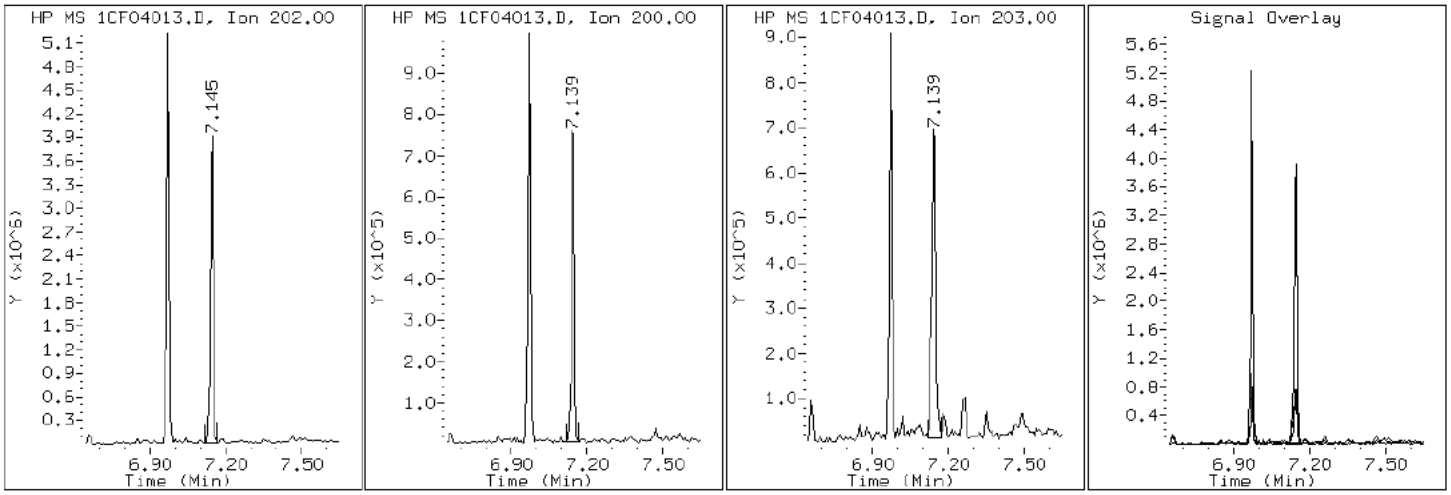
Data File: 1CF04013.D

Date: 04-JUN-2013 13:58

Client ID: CV1347A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04013.D
Inj. Date and Time: 04-JUN-2013 13:58
Instrument ID: BSMC5973.i
Client ID: CV1347A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

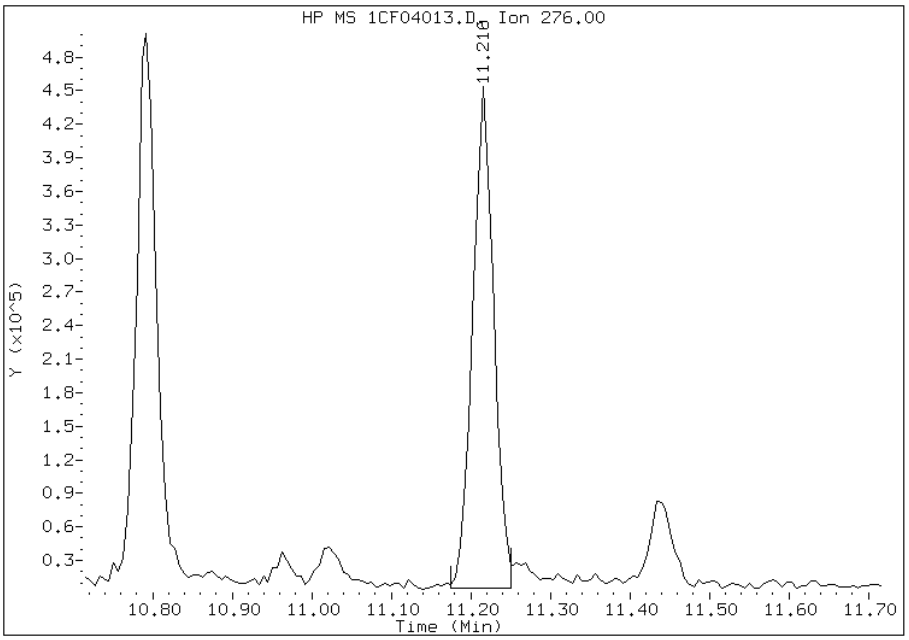
Processing Integration Results

RT: 11.22

Response: 815707

Amount: 11

Conc: 916



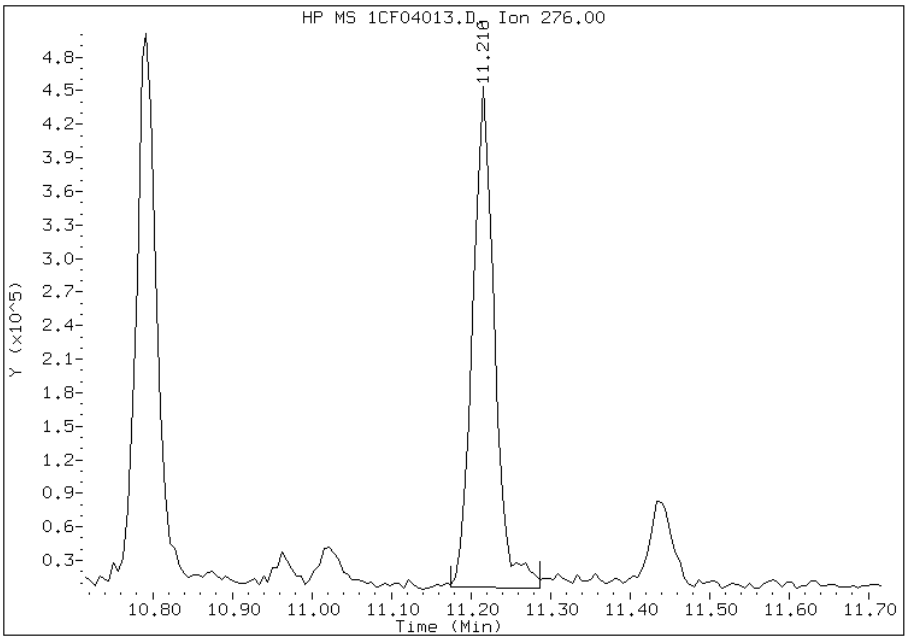
Manual Integration Results

RT: 11.22

Response: 850250

Amount: 11

Conc: 955



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04013.D
Inj. Date and Time: 04-JUN-2013 13:58
Instrument ID: BSMC5973.i
Client ID: CV1347A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

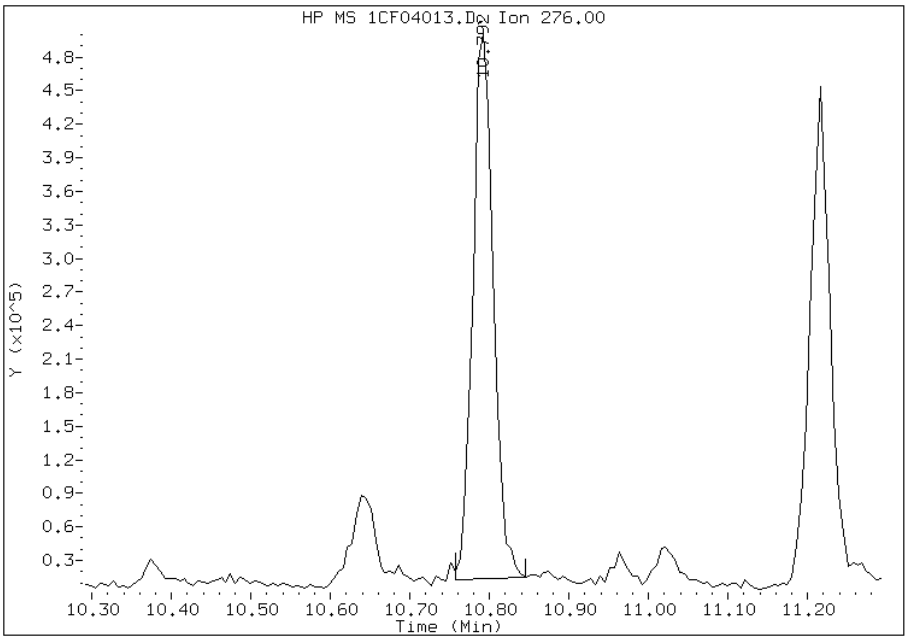
Processing Integration Results

RT: 10.79

Response: 867592

Amount: 10

Conc: 860



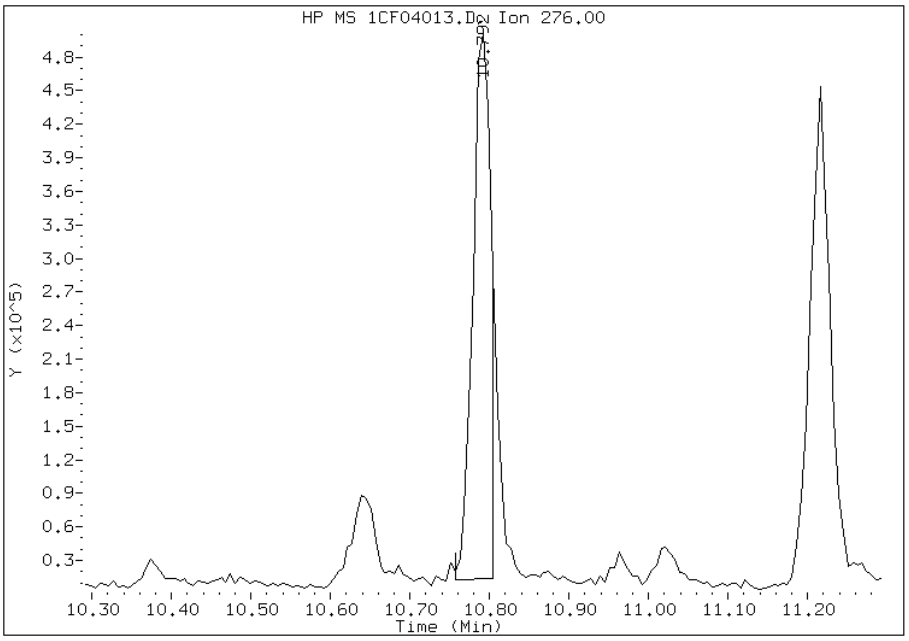
Manual Integration Results

RT: 10.79

Response: 762225

Amount: 9

Conc: 757



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1347B-CS | Lab Sample ID: 680-90723-7

Matrix: Solid | Lab File ID: 1CF04014.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 08:46

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

Sample wt/vol: 15.03(g) | Date Analyzed: 06/04/2013 14:16

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

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

% Moisture: 21.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	830		200	25
120-12-7	Anthracene	900		43	21
56-55-3	Benzo[a]anthracene	1700		41	20
50-32-8	Benzo[a]pyrene	2100		53	26
205-99-2	Benzo[b]fluoranthene	5800		62	31
191-24-2	Benzo[g,h,i]perylene	2300		100	22
207-08-9	Benzo[k]fluoranthene	2000		41	18
218-01-9	Chrysene	2800		46	23
53-70-3	Dibenz(a,h)anthracene	680		100	21
206-44-0	Fluoranthene	2000		100	20
86-73-7	Fluorene	140		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1900		100	36
90-12-0	1-Methylnaphthalene	1200		200	22
91-57-6	2-Methylnaphthalene	1300		200	36
91-20-3	Naphthalene	650		200	22
85-01-8	Phenanthrene	1600	B	41	20
129-00-0	Pyrene	2500		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04014.D
Lab Smp Id: 680-90723-A-7-A Client Smp ID: CV1347B-CS
Inj Date : 04-JUN-2013 14:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-7-a
Misc Info : 680-90723-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	21.654	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	4.045	4.045	(1.000)	2666805	40.0000	
* 6	Acenaphthene-d10	164	5.133	5.133	(1.000)	1728366	40.0000	
* 10	Phenanthrene-d10	188	6.104	6.104	(1.000)	3171805	40.0000	
$ 14	o-Terphenyl	230	6.351	6.351	(1.040)	107668	2.17913	740.2368
* 18	Chrysene-d12	240	8.068	8.068	(1.000)	3181561	40.0000	
* 23	Perylene-d12	264	9.403	9.409	(1.000)	3025133	40.0000	
2	Naphthalene	128	4.057	4.057	(1.003)	143100	1.90149	645.9220
3	2-Methylnaphthalene	142	4.480	4.480	(1.108)	156253	3.74324	1271.5527
4	1-Methylnaphthalene	142	4.545	4.545	(1.124)	139582	3.39869	1154.5112
5	Acenaphthylene	152	5.045	5.045	(0.983)	161362	2.43536	827.2742
7	Acenaphthene	154	5.157	5.151	(1.005)	9799	0.23583	80.1115(Q)
9	Fluorene	166	5.480	5.480	(1.068)	21267	0.40114	136.2644(Q)
11	Phenanthrene	178	6.115	6.121	(1.002)	441655	4.71307	1600.9991
12	Anthracene	178	6.151	6.157	(1.008)	229243	2.64059	896.9908

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	67781	0.95078	322.9732
15 Fluoranthene	202	6.968	6.968	(1.142)	574131	5.99409	2036.1512
16 Pyrene	202	7.139	7.145	(0.885)	624073	7.26409	2467.5628
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	449370	5.12220	1739.9762
19 Chrysene	228	8.086	8.092	(1.002)	739047	8.36706	2842.2328
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	1272111	17.1153	5813.9494(M)
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	483408	5.82320	1978.1004(M)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	464788	6.21540	2111.3309
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	448390	5.70035	1936.3704(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	129512	2.00581	681.3587
26 Benzo(g,h,i)perylene	276	11.209	11.215	(1.192)	466201	6.63362	2253.3953(M)

QC Flag Legend

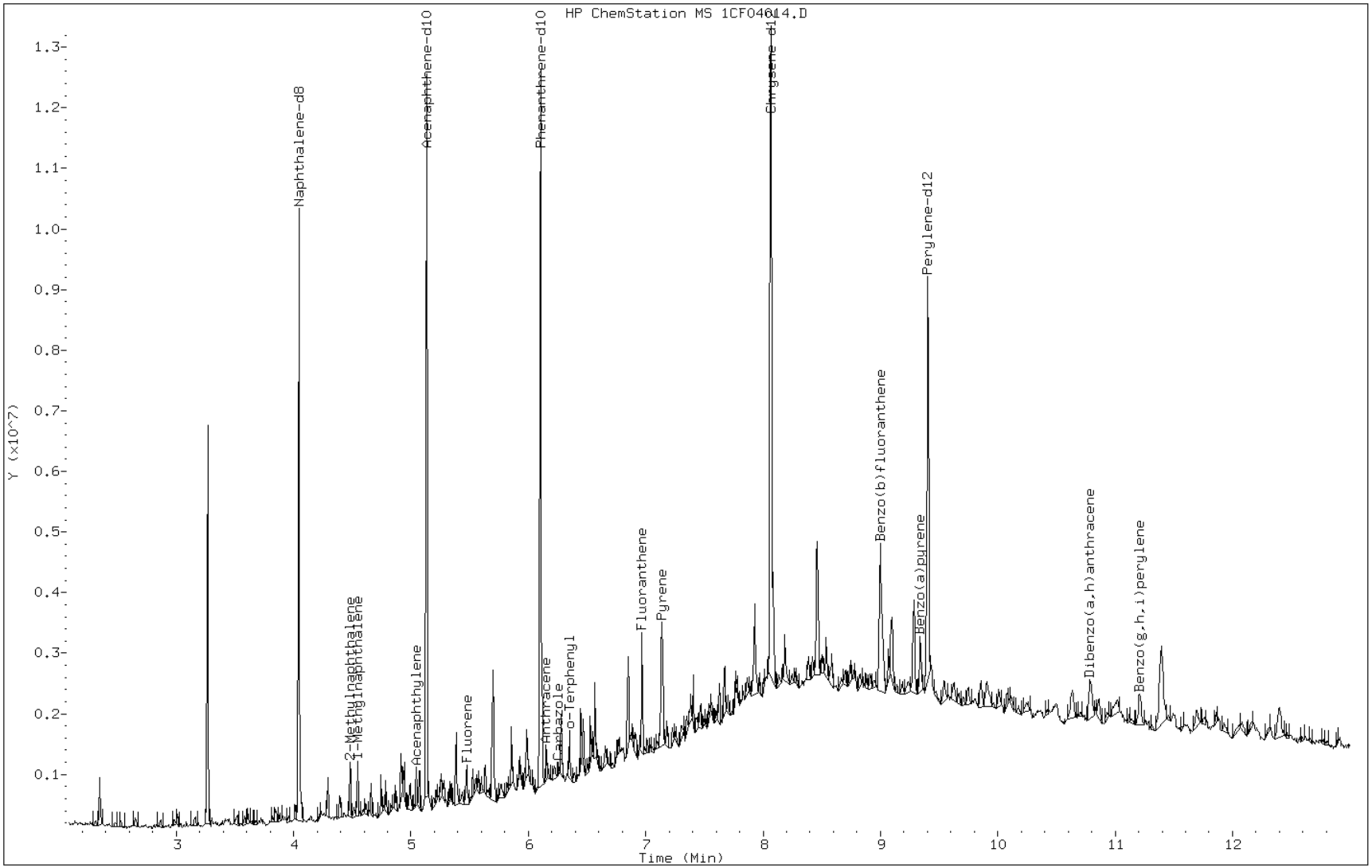
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC



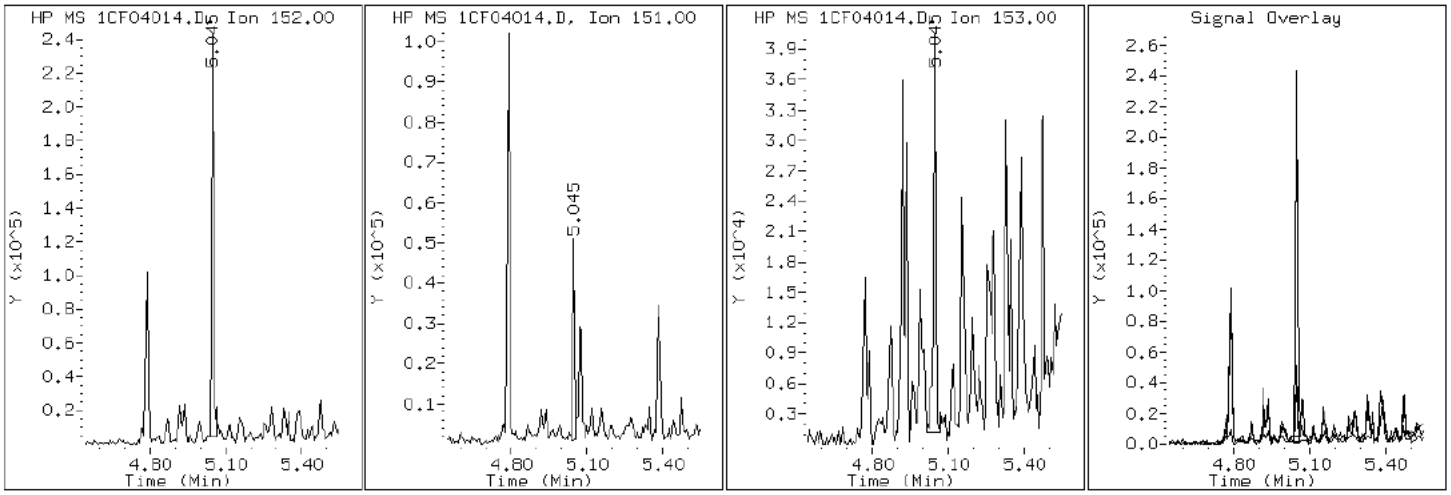
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

5 Acenaphthylene



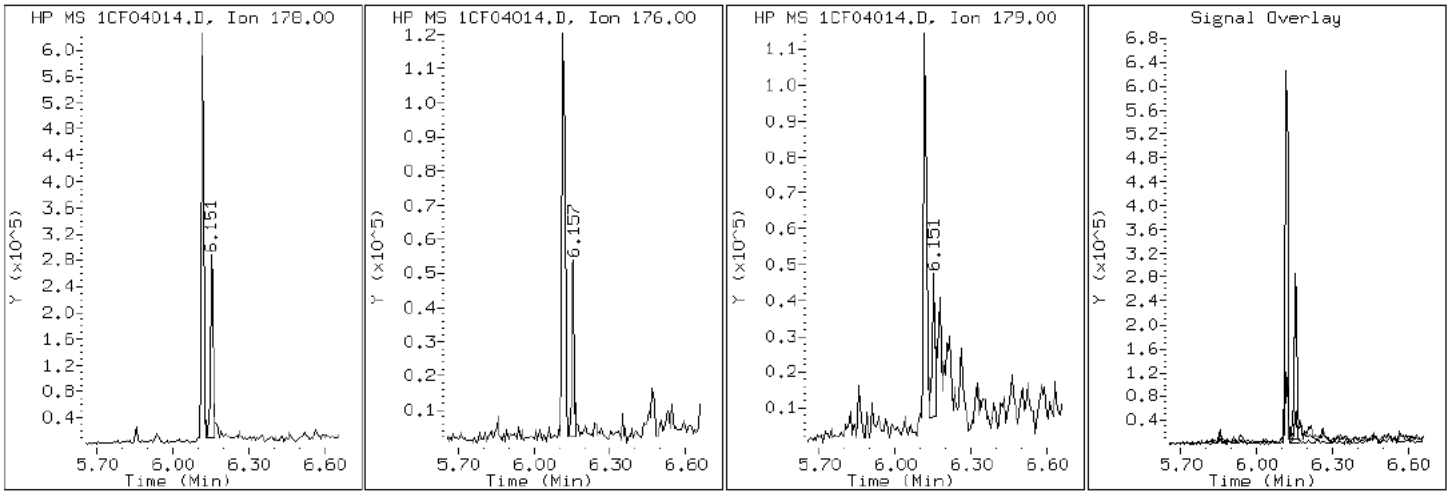
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

12 Anthracene



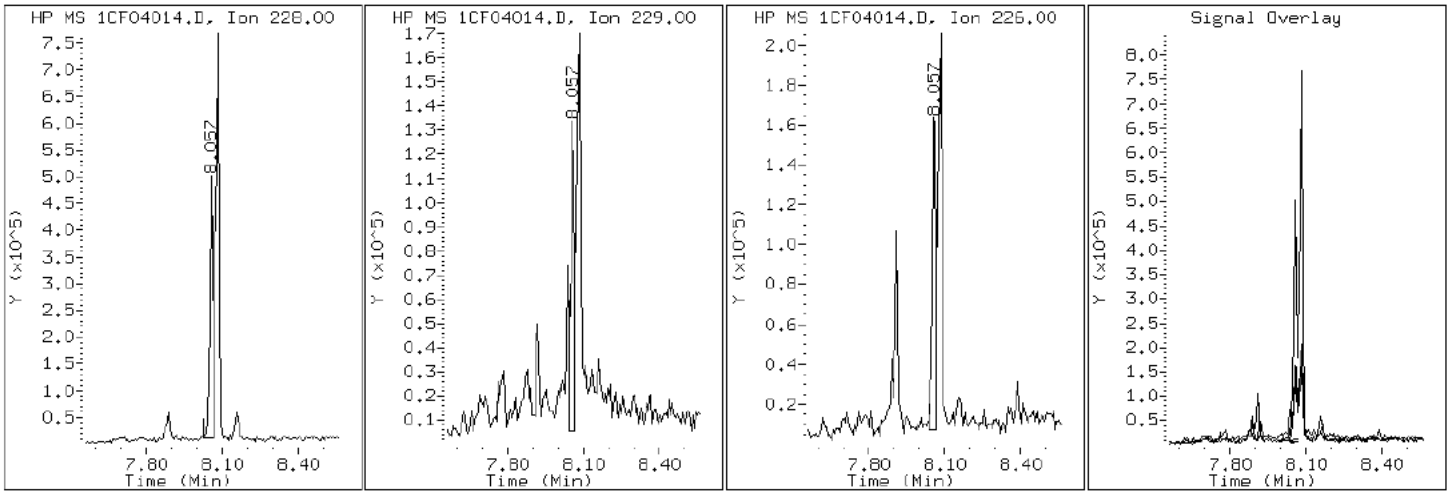
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

17 Benzo(a)anthracene



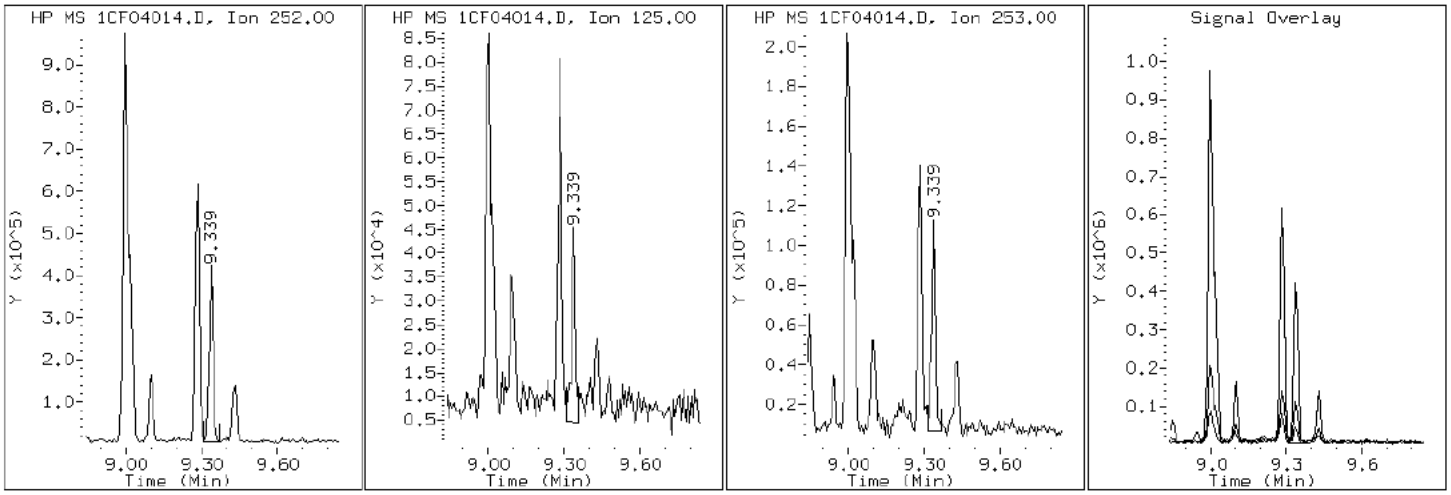
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

22 Benzo(a)pyrene



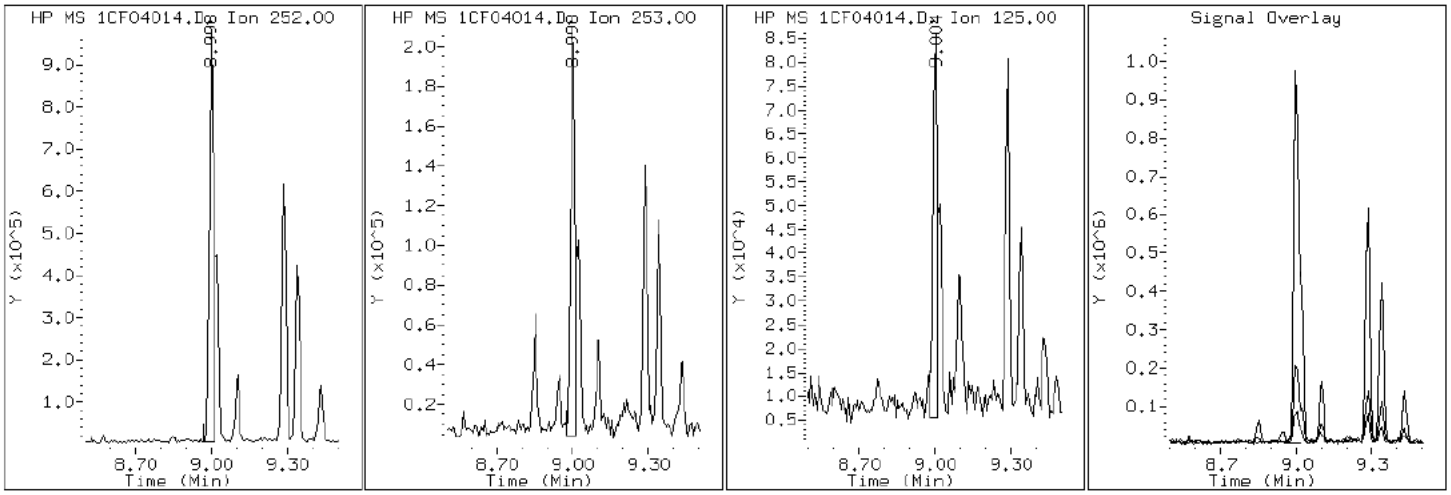
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



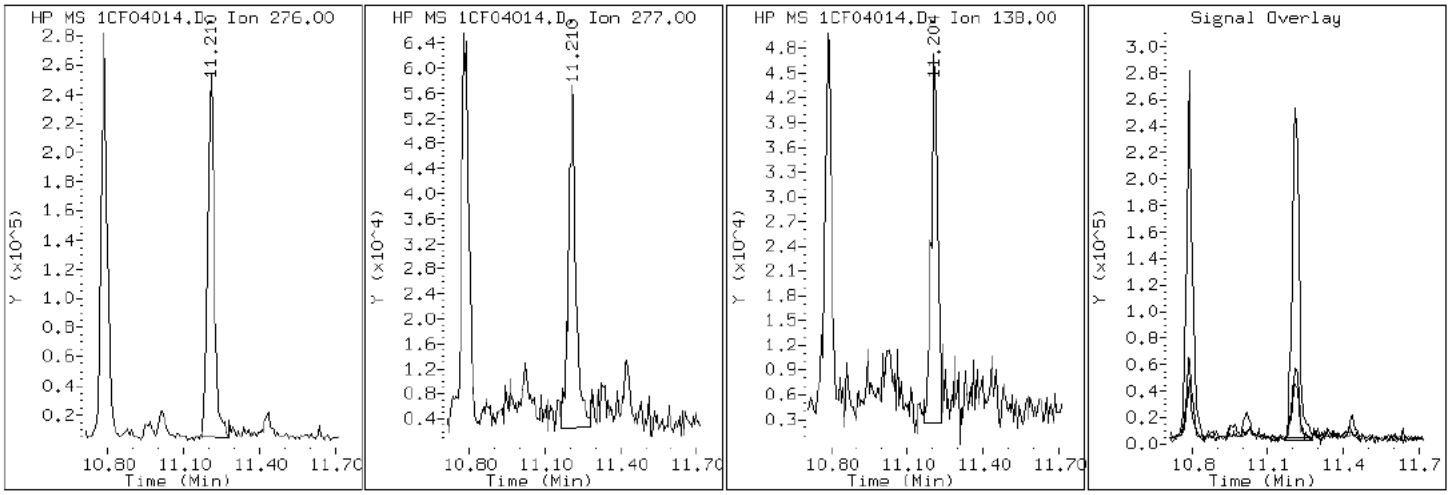
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



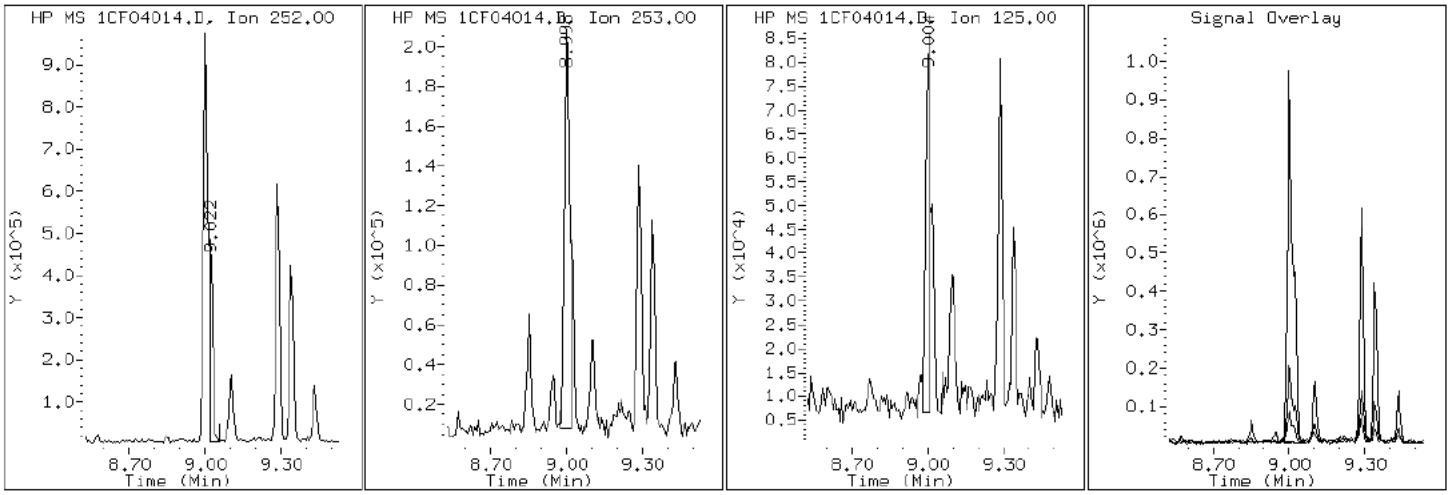
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



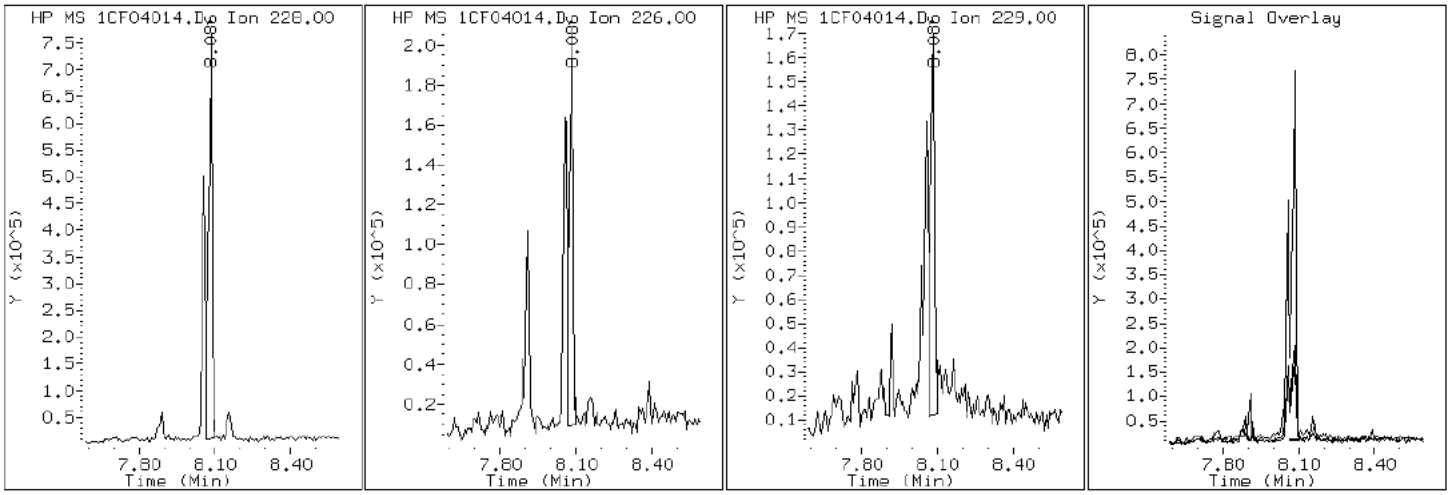
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

19 Chrysene



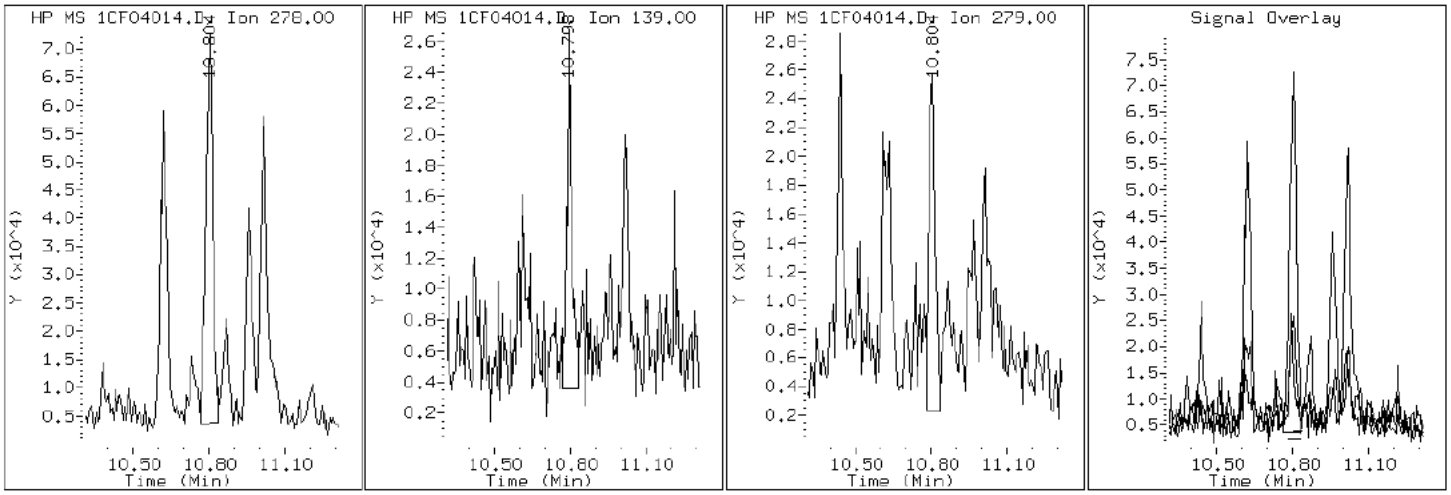
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



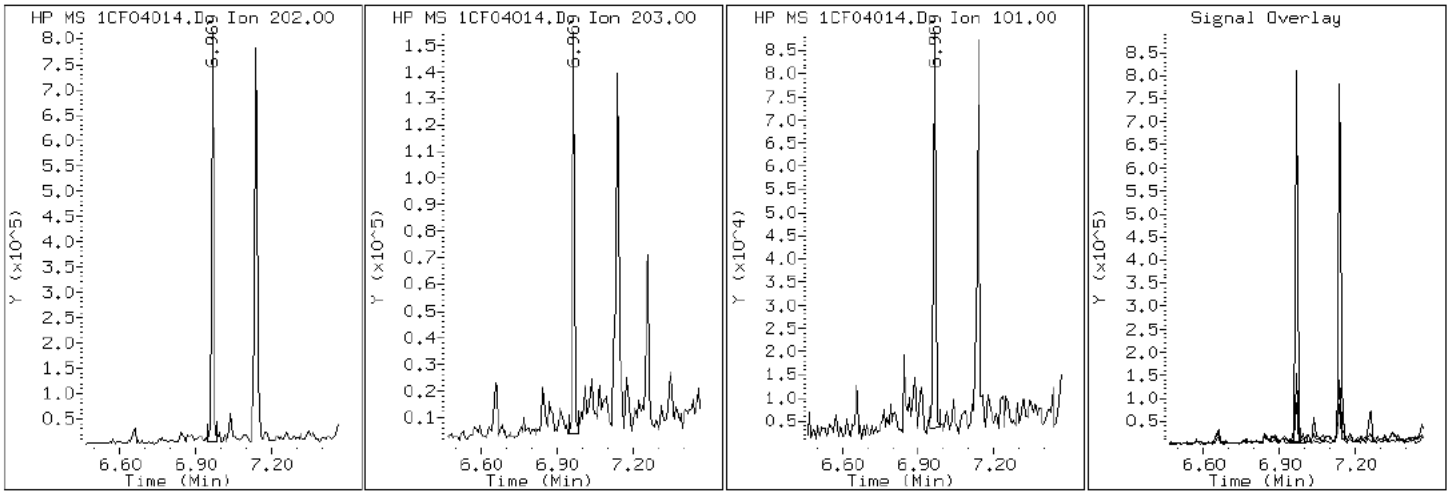
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

15 Fluoranthene



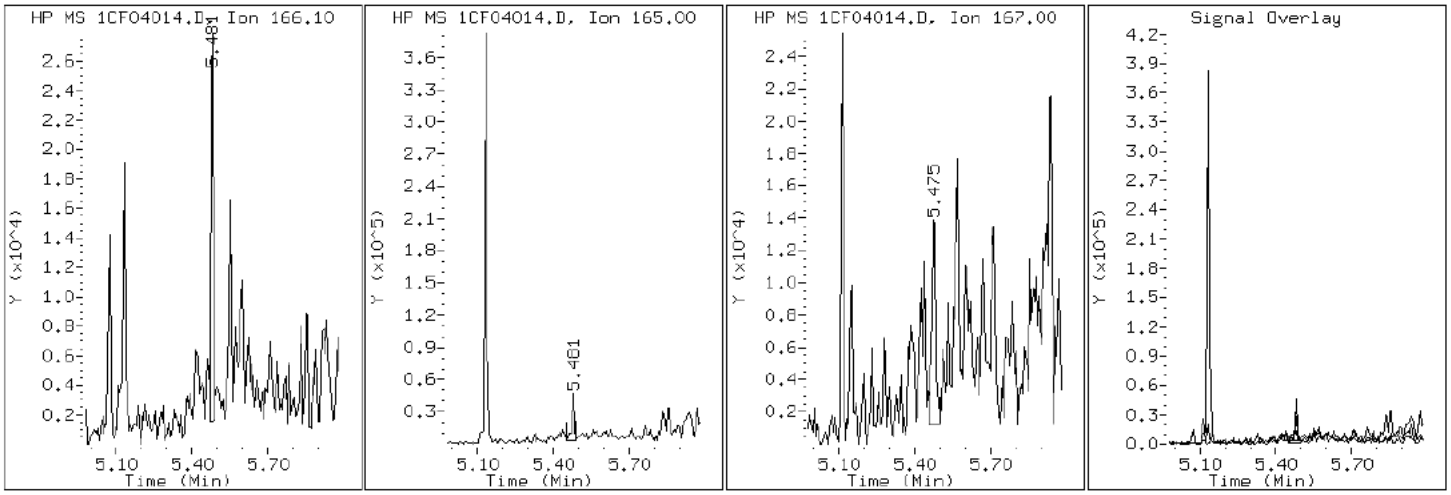
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

9 Fluorene



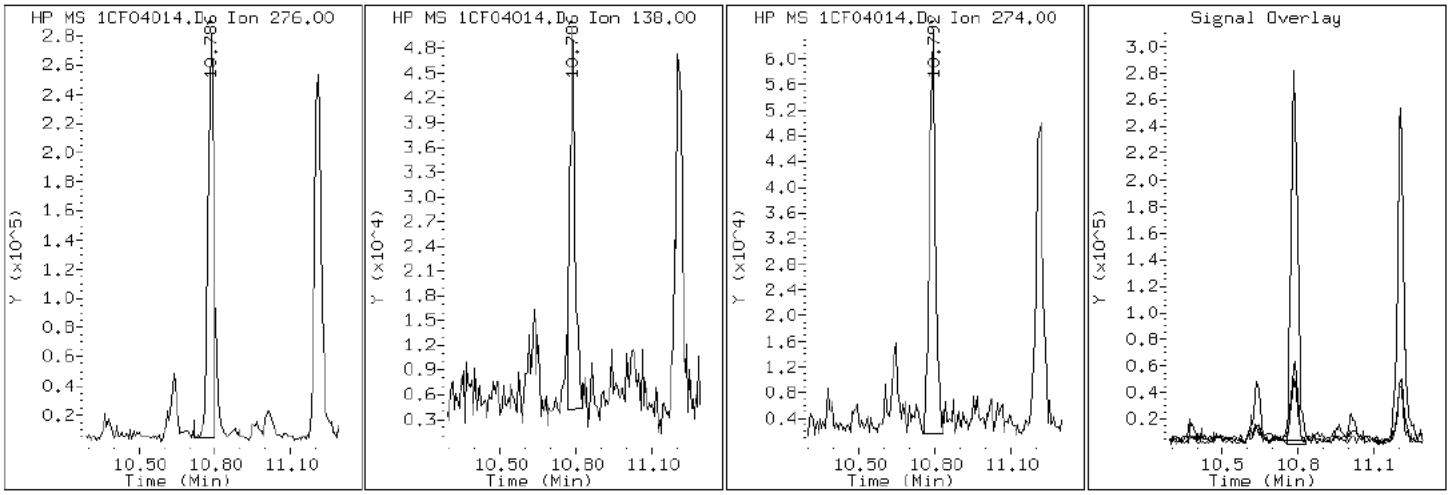
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

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



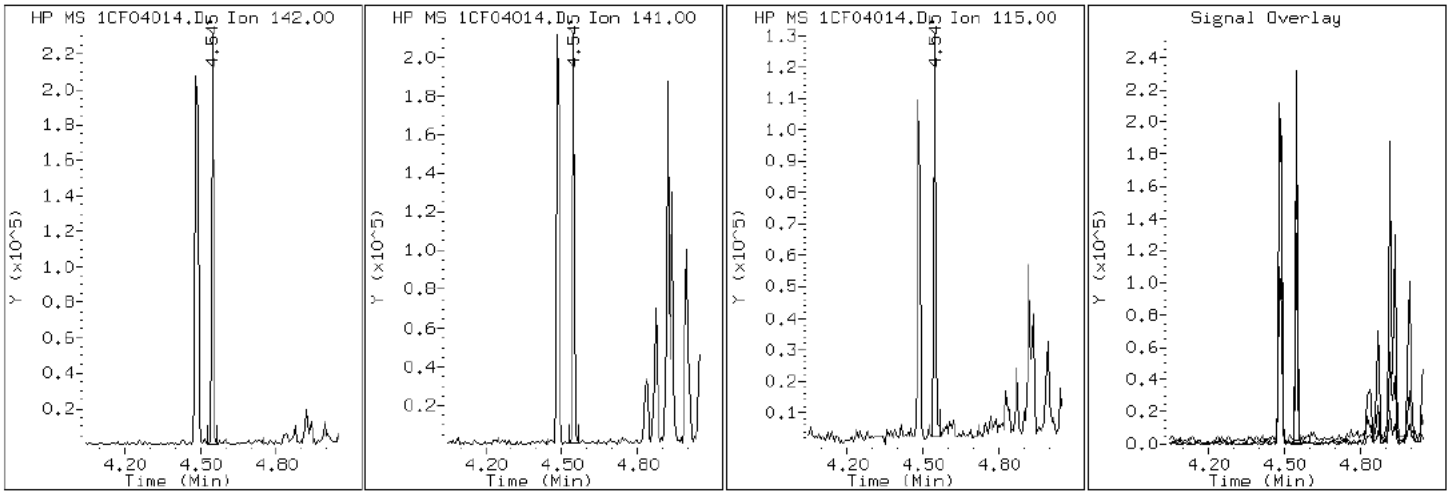
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

4 1-Methylnaphthalene



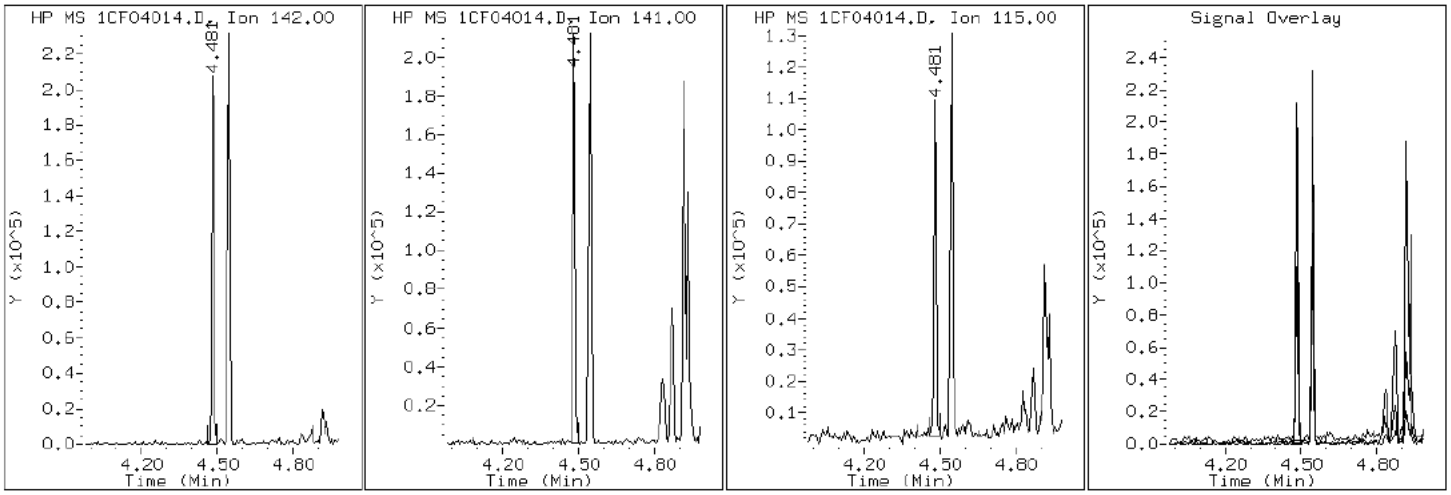
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

3 2-Methylnaphthalene



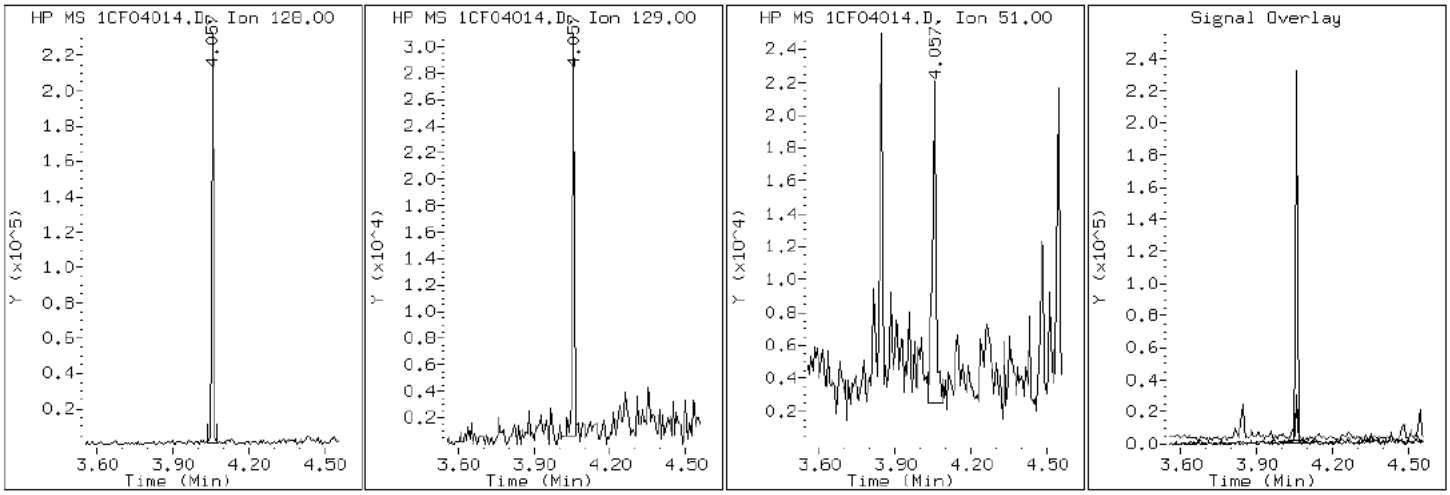
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

2 Naphthalene



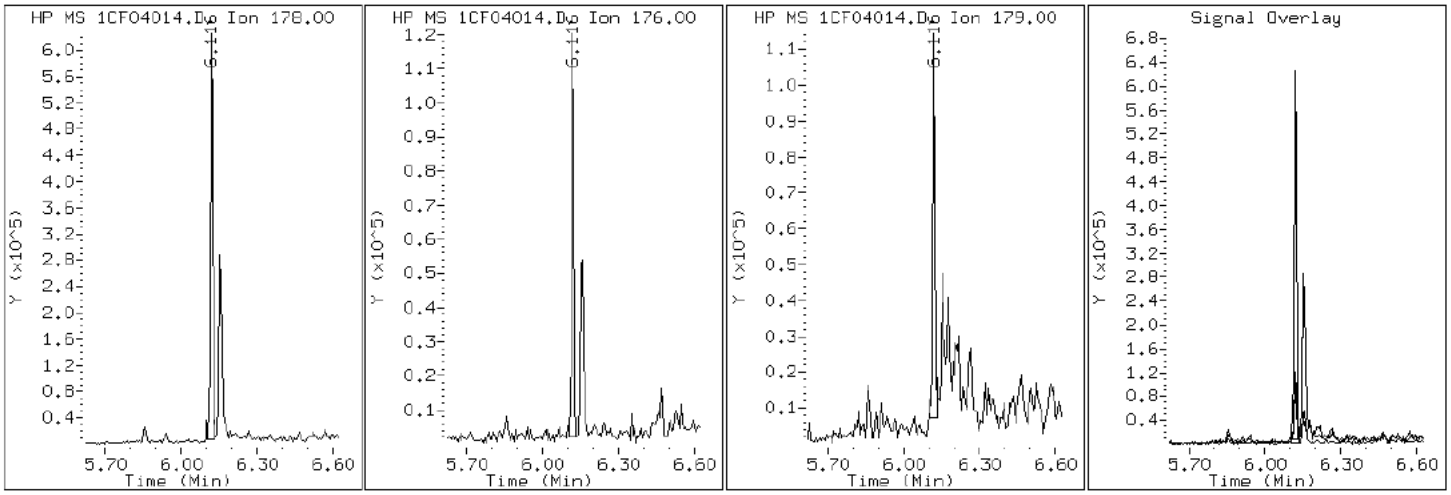
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

11 Phenanthrene



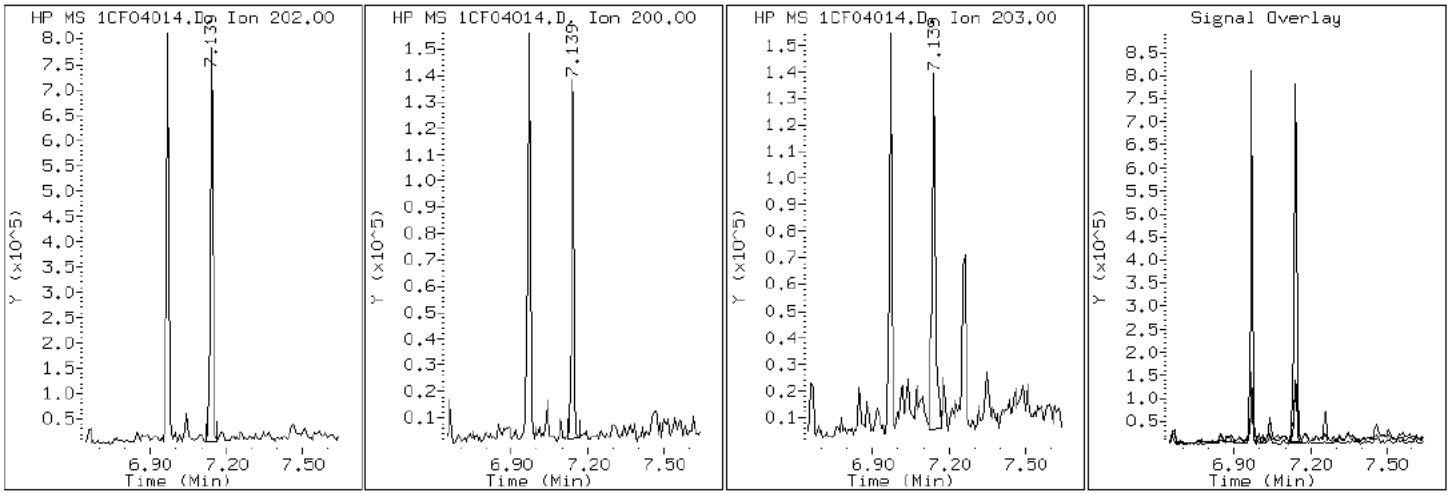
Data File: 1CF04014.D

Date: 04-JUN-2013 14:16

Client ID: CV1347B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04014.D
Inj. Date and Time: 04-JUN-2013 14:16
Instrument ID: BSMC5973.i
Client ID: CV1347B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

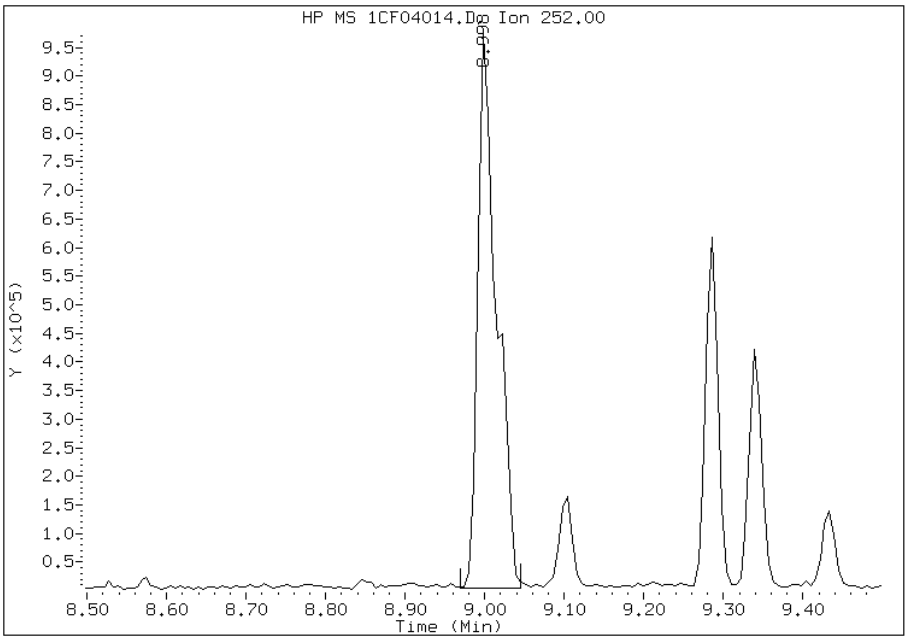
Processing Integration Results

RT: 9.00

Response: 1602557

Amount: 22

Conc: 7324



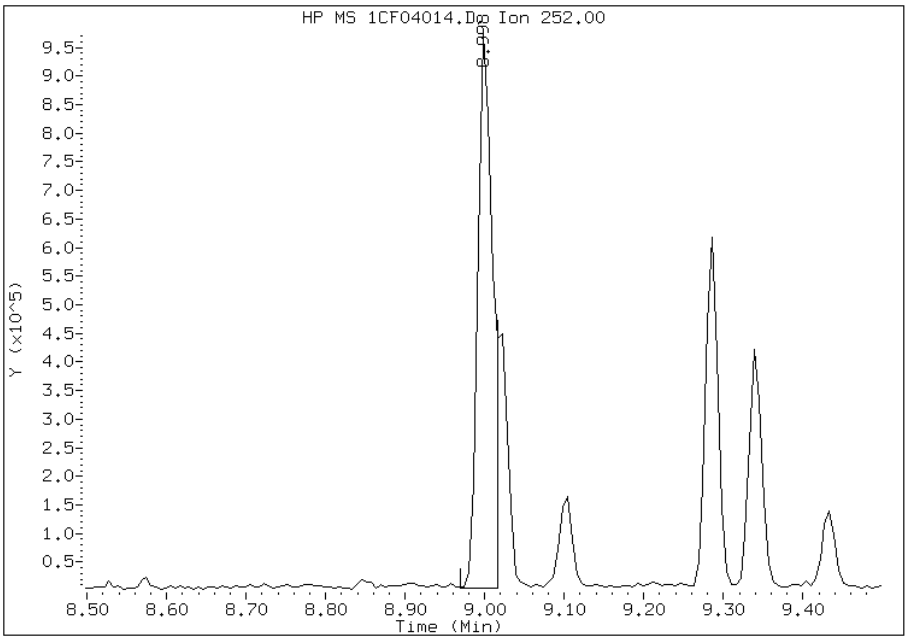
Manual Integration Results

RT: 9.00

Response: 1272111

Amount: 17

Conc: 5814



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04014.D
Inj. Date and Time: 04-JUN-2013 14:16
Instrument ID: BSMC5973.i
Client ID: CV1347B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

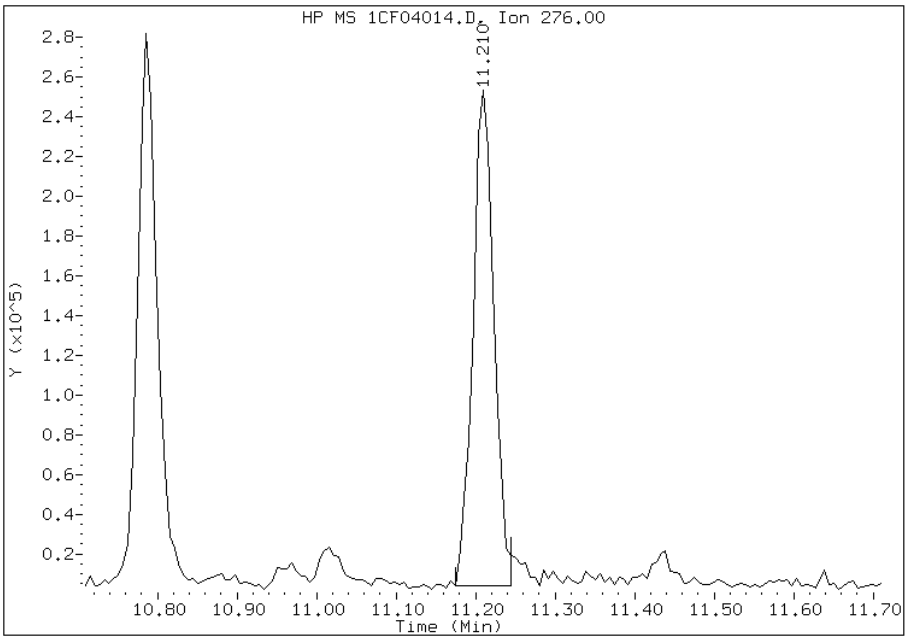
Processing Integration Results

RT: 11.21

Response: 451909

Amount: 6

Conc: 2184



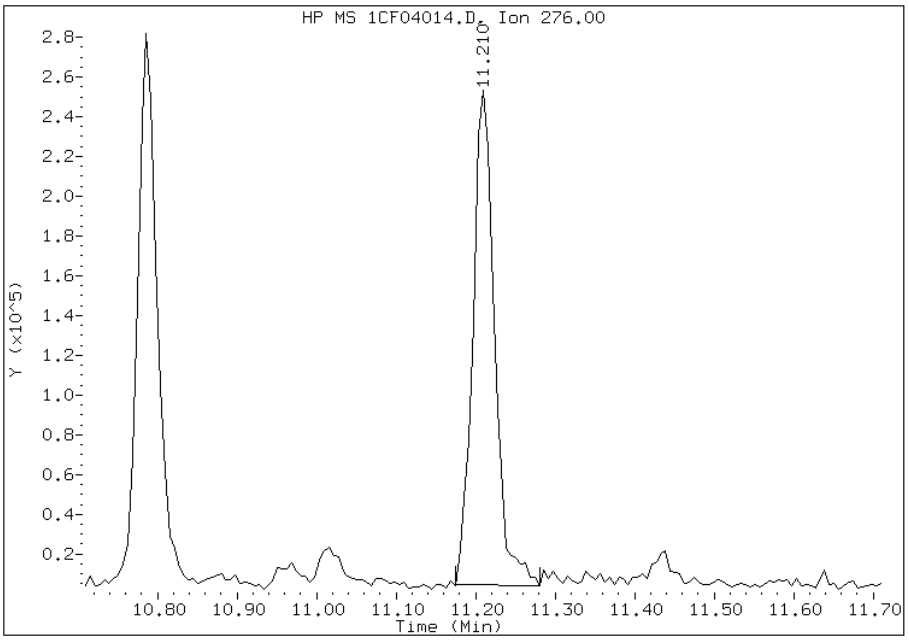
Manual Integration Results

RT: 11.21

Response: 466201

Amount: 7

Conc: 2253



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04014.D
Inj. Date and Time: 04-JUN-2013 14:16
Instrument ID: BSMC5973.i
Client ID: CV1347B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

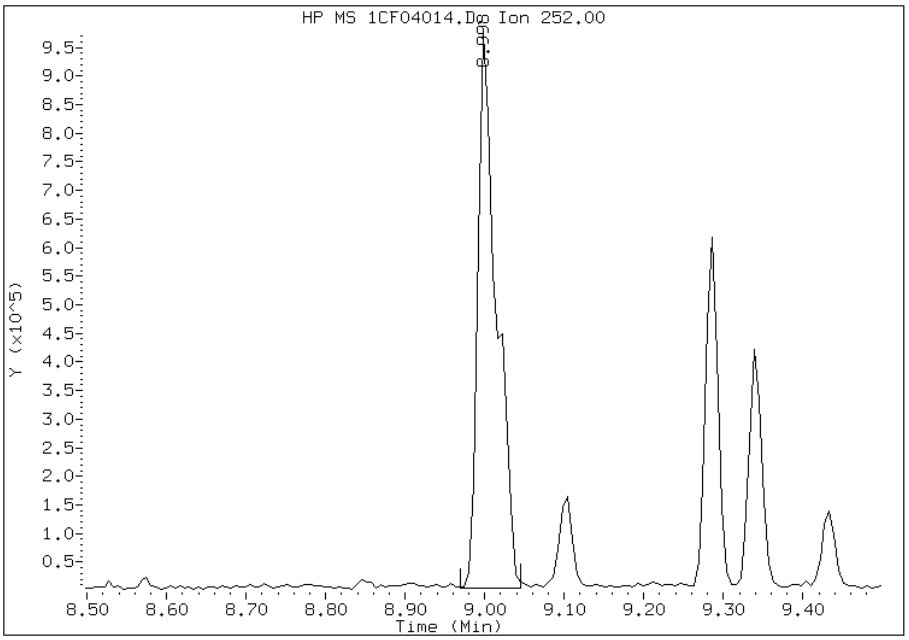
Processing Integration Results

RT: 9.00

Response: 1602268

Amount: 19

Conc: 6556



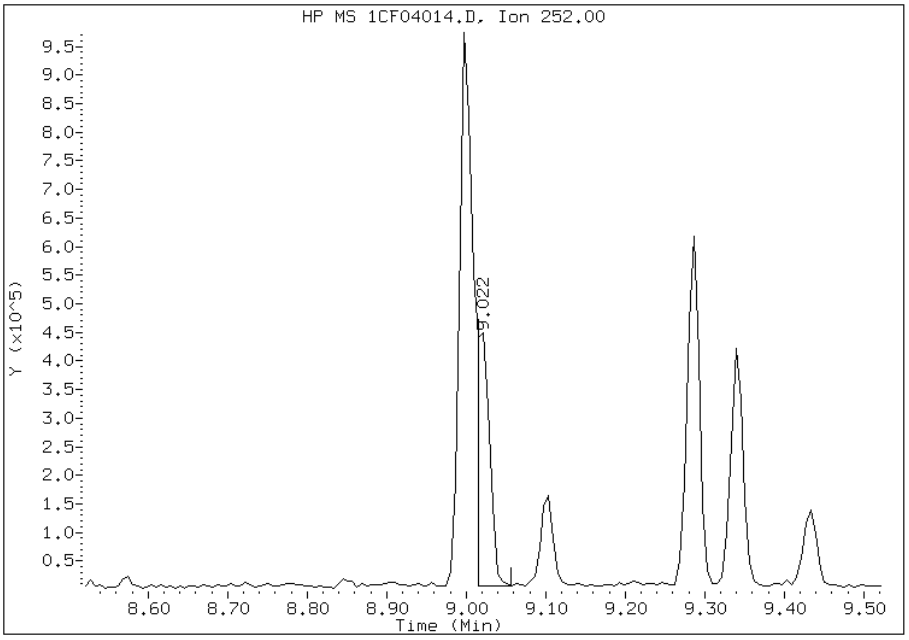
Manual Integration Results

RT: 9.02

Response: 483408

Amount: 6

Conc: 1978



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04014.D
Inj. Date and Time: 04-JUN-2013 14:16
Instrument ID: BSMC5973.i
Client ID: CV1347B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

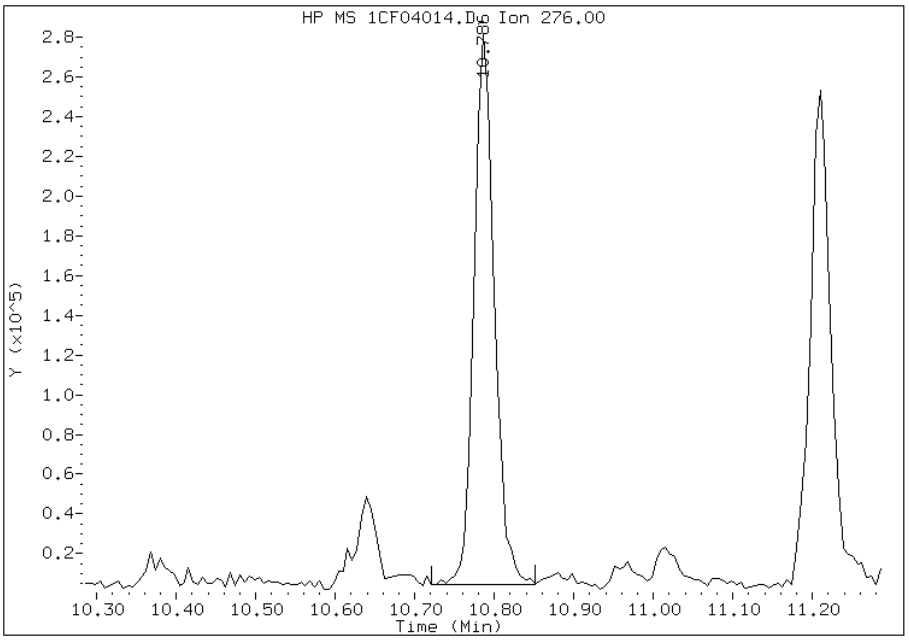
Processing Integration Results

RT: 10.79

Response: 491256

Amount: 6

Conc: 2116



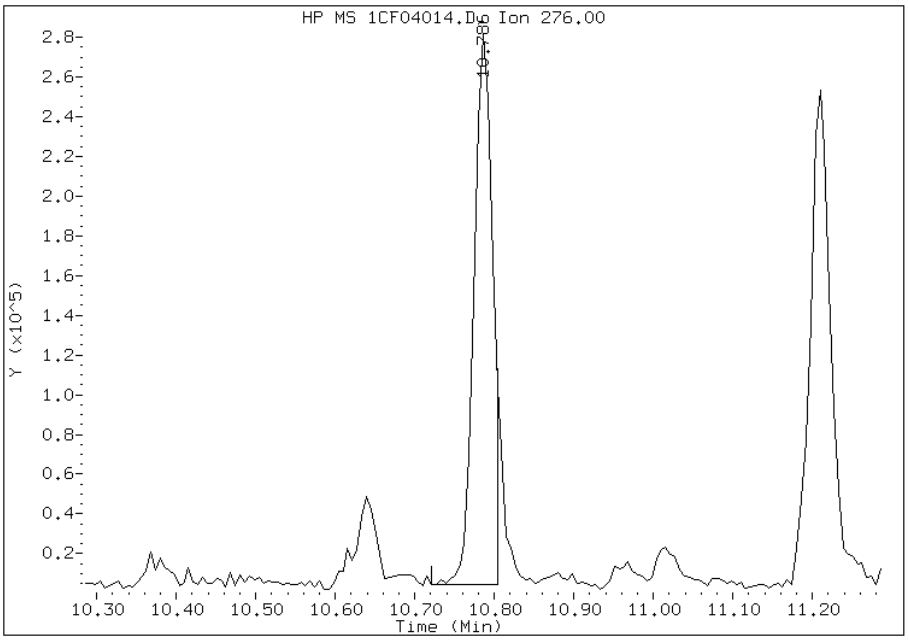
Manual Integration Results

RT: 10.79

Response: 448390

Amount: 6

Conc: 1936



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1347C-CS | Lab Sample ID: 680-90723-8

Matrix: Solid | Lab File ID: 1CF04015.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 08:50

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

Sample wt/vol: 14.96(g) | Date Analyzed: 06/04/2013 14:34

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

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

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	1900		210	26
120-12-7	Anthracene	1600		43	22
56-55-3	Benzo[a]anthracene	4400		41	20
50-32-8	Benzo[a]pyrene	4700		53	27
205-99-2	Benzo[b]fluoranthene	12000		63	31
191-24-2	Benzo[g,h,i]perylene	3700		100	23
207-08-9	Benzo[k]fluoranthene	4900		41	18
218-01-9	Chrysene	5700		46	23
53-70-3	Dibenz(a,h)anthracene	1100		100	21
206-44-0	Fluoranthene	3100		100	21
86-73-7	Fluorene	110		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	3100		100	36
90-12-0	1-Methylnaphthalene	280		210	23
91-57-6	2-Methylnaphthalene	280		210	36
91-20-3	Naphthalene	310		210	23
85-01-8	Phenanthrene	670	B	41	20
129-00-0	Pyrene	5000		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04015.D
Lab Smp Id: 680-90723-A-8-A Client Smp ID: CV1347C-CS
Inj Date : 04-JUN-2013 14:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-8-a
Misc Info : 680-90723-A-8-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	21.847	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2489127	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1721008	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3116045	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	107520	2.21508	757.8286
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	3120868	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3155720	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	62719	0.89289	305.4771
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	32311	0.82930	283.7236
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	31301	0.81655	279.3612
	5 Acenaphthylene	152	5.045	5.045	(0.983)	372220	5.64175	1930.1706
	7 Acenaphthene	154	5.151	5.151	(1.003)	8492	0.20525	70.2216(Q)
	9 Fluorene	166	5.480	5.480	(1.068)	17323	0.32814	112.2657
	11 Phenanthrene	178	6.116	6.121	(1.002)	180203	1.95743	669.6805
	12 Anthracene	178	6.151	6.157	(1.008)	400608	4.69707	1606.9755

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	73106	1.03259	353.2711
15 Fluoranthene	202	6.968	6.968	(1.142)	852602	9.06069	3099.8672
16 Pyrene	202	7.139	7.145	(0.885)	1238625	14.6977	5028.4309
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	1110327	12.9023	4414.1792
19 Chrysene	228	8.086	8.092	(1.002)	1436552	16.5801	5672.4249
20 Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	2625175	33.8582	11583.6511
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	1245791	14.3860	4921.7626
22 Benzo(a)pyrene	252	9.345	9.345	(0.994)	1089311	13.8385	4734.4496
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.148)	758329	9.14322	3128.1022(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	221369	3.28656	1124.4072
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.193)	789885	10.7743	3686.1163

QC Flag Legend

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

Data File: 1CF04015.D

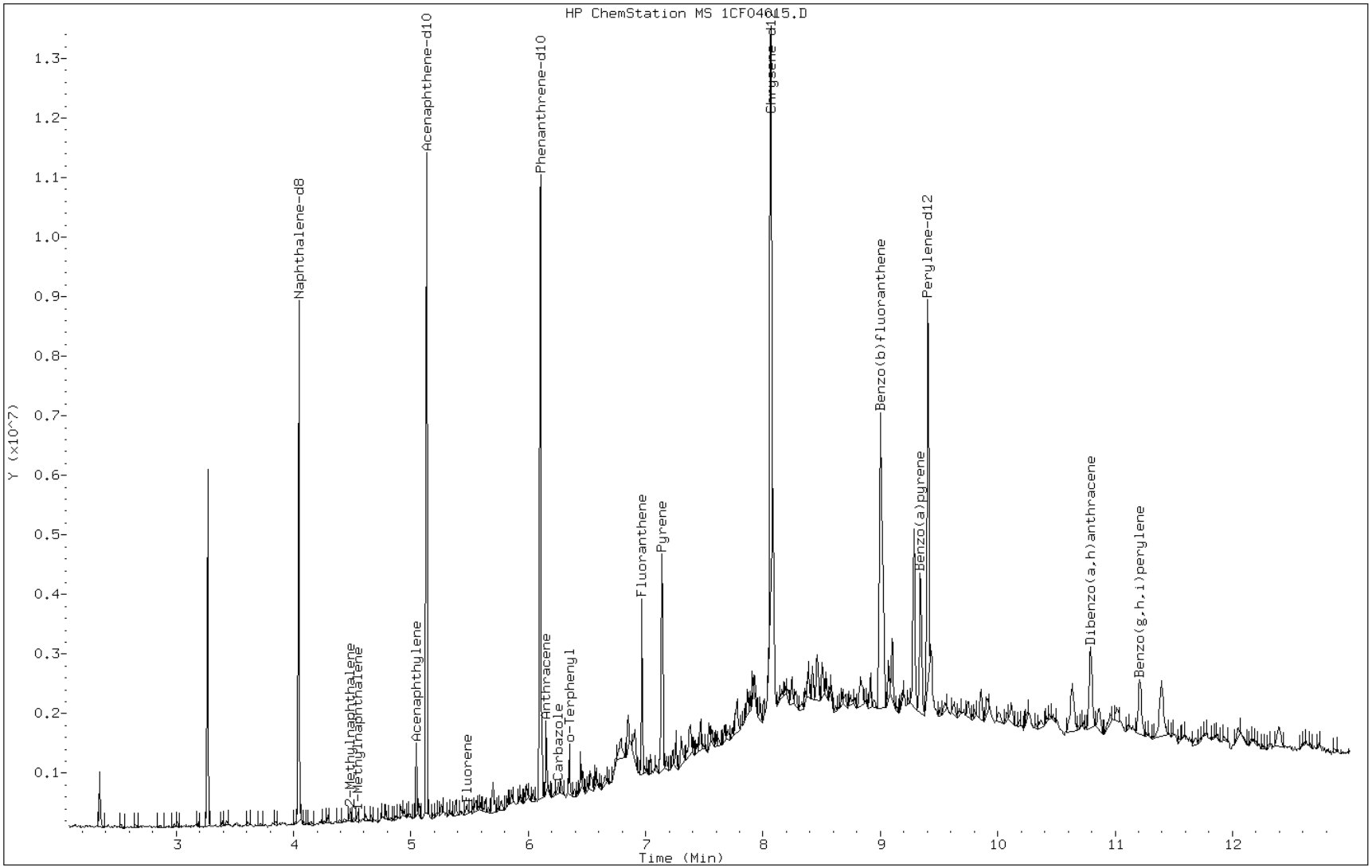
Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS

Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a

Operator: SCC



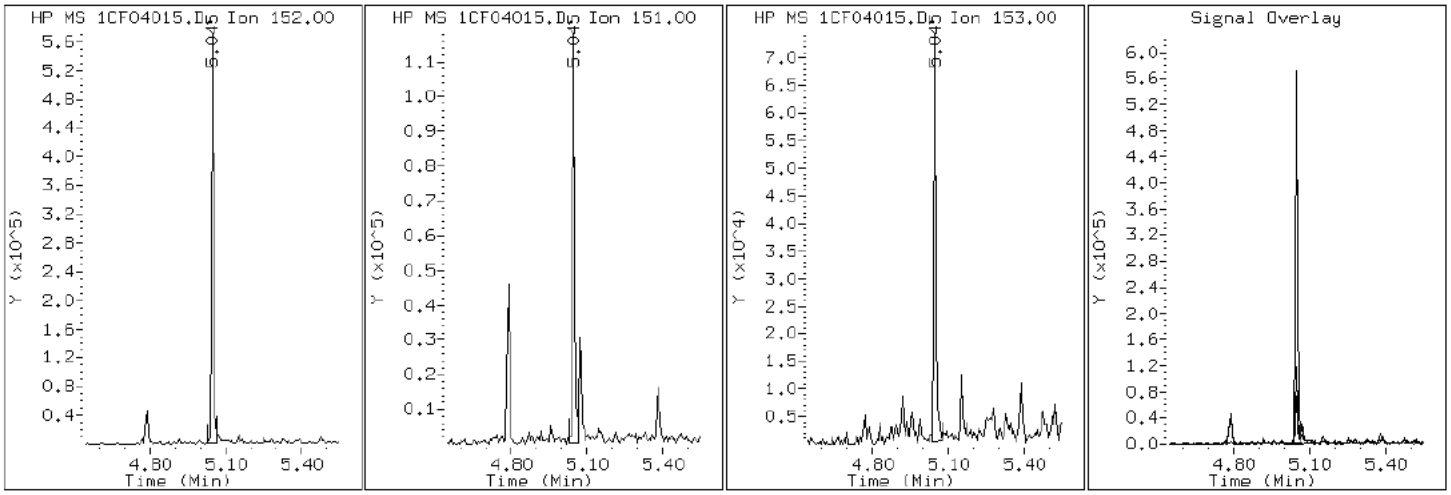
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

5 Acenaphthylene



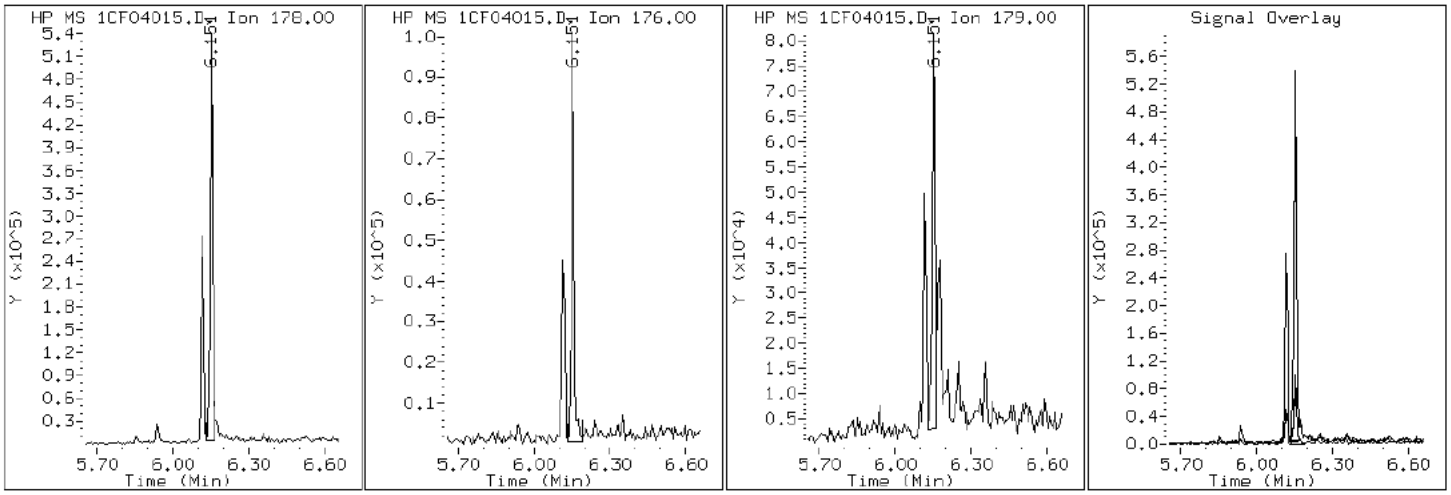
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

12 Anthracene



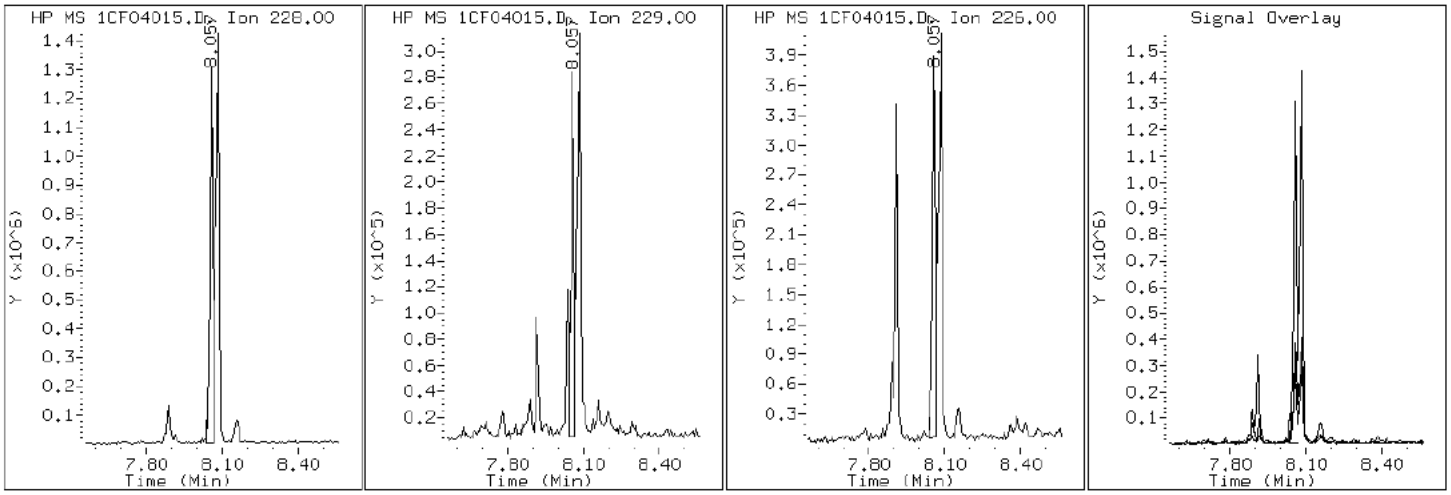
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

17 Benzo(a)anthracene



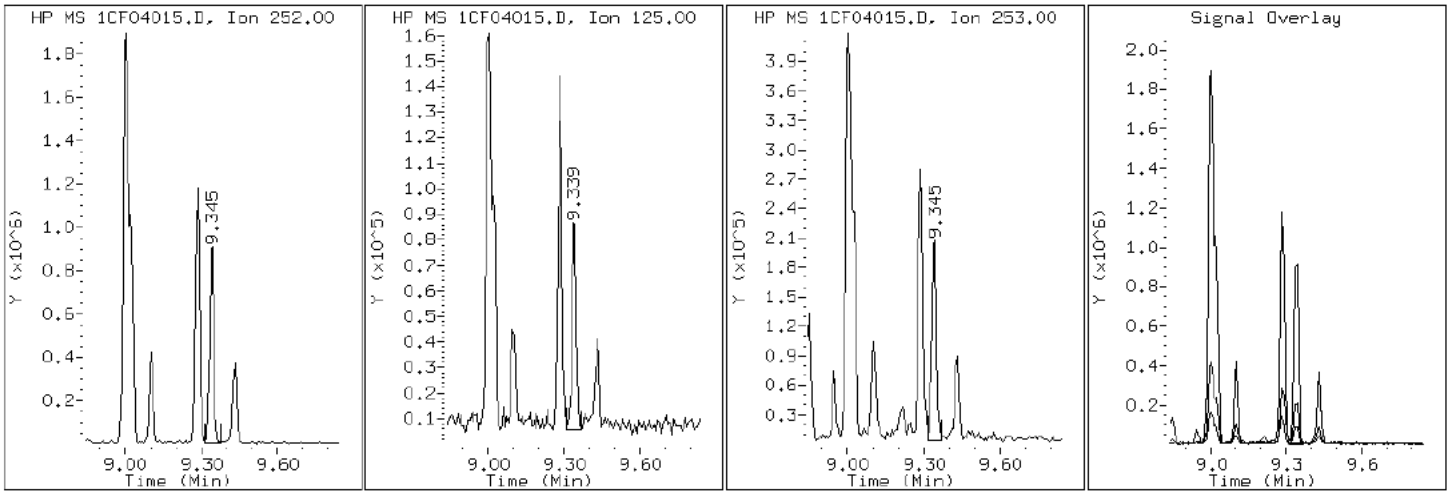
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

22 Benzo(a)pyrene



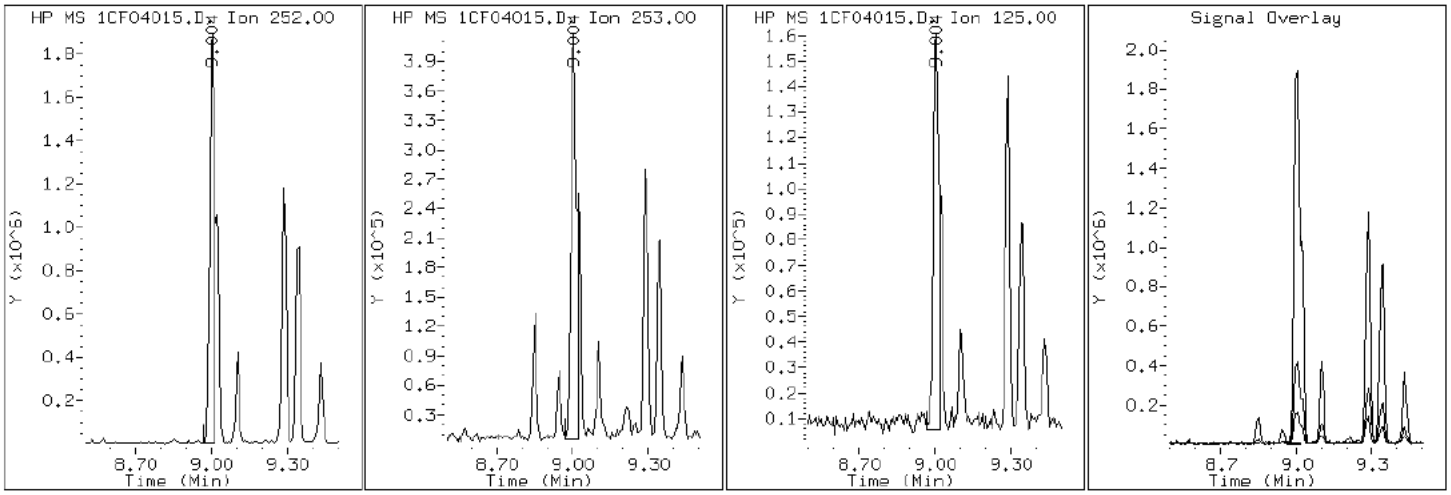
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



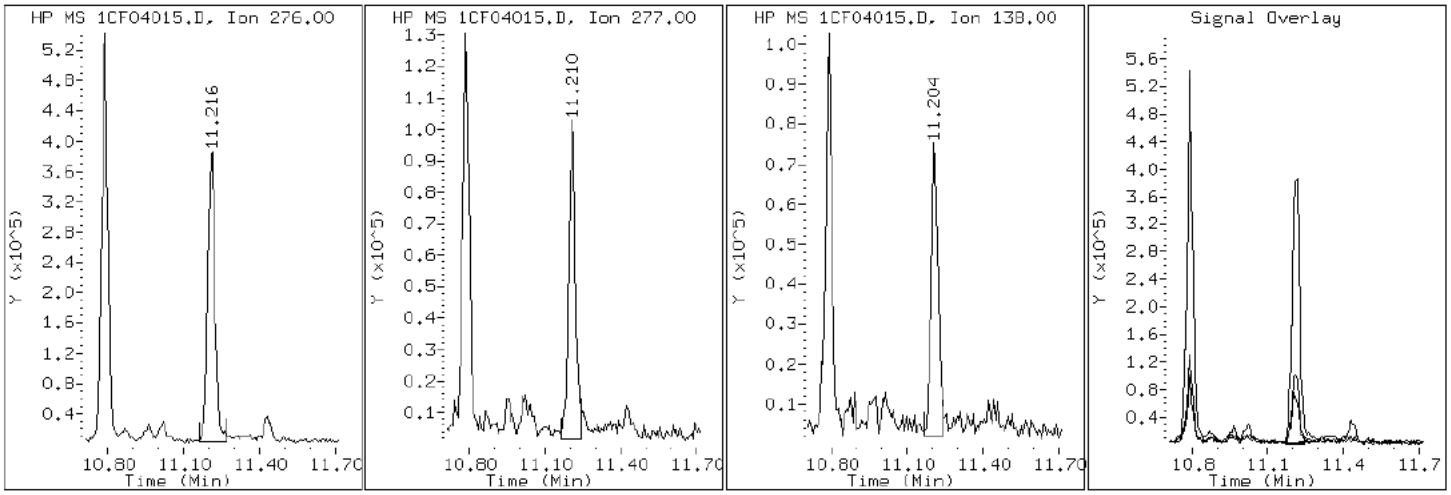
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



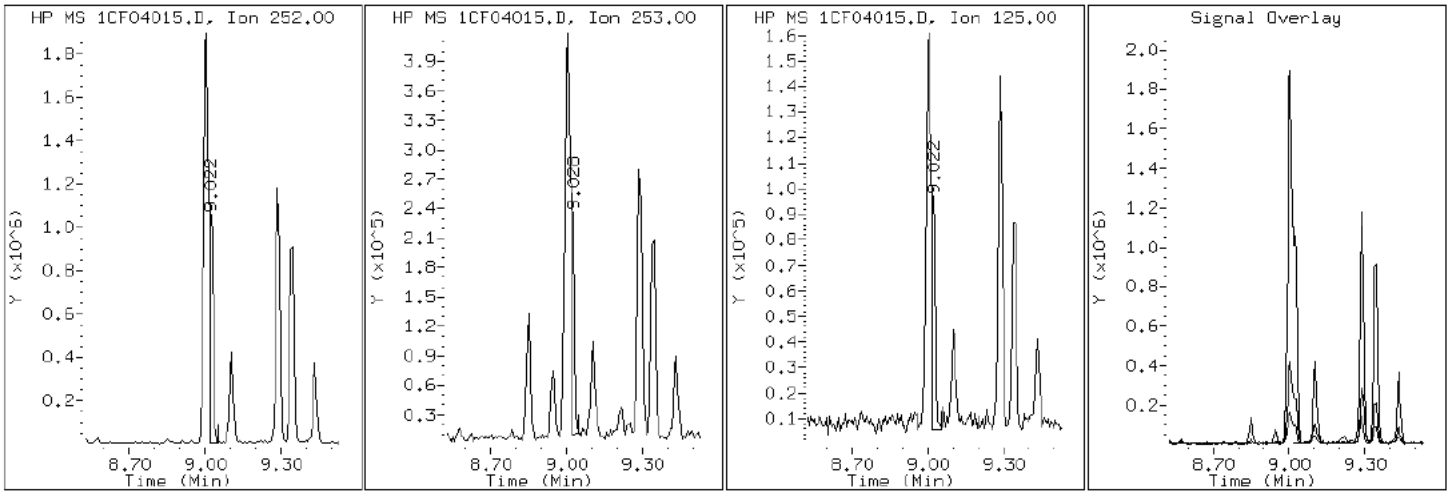
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



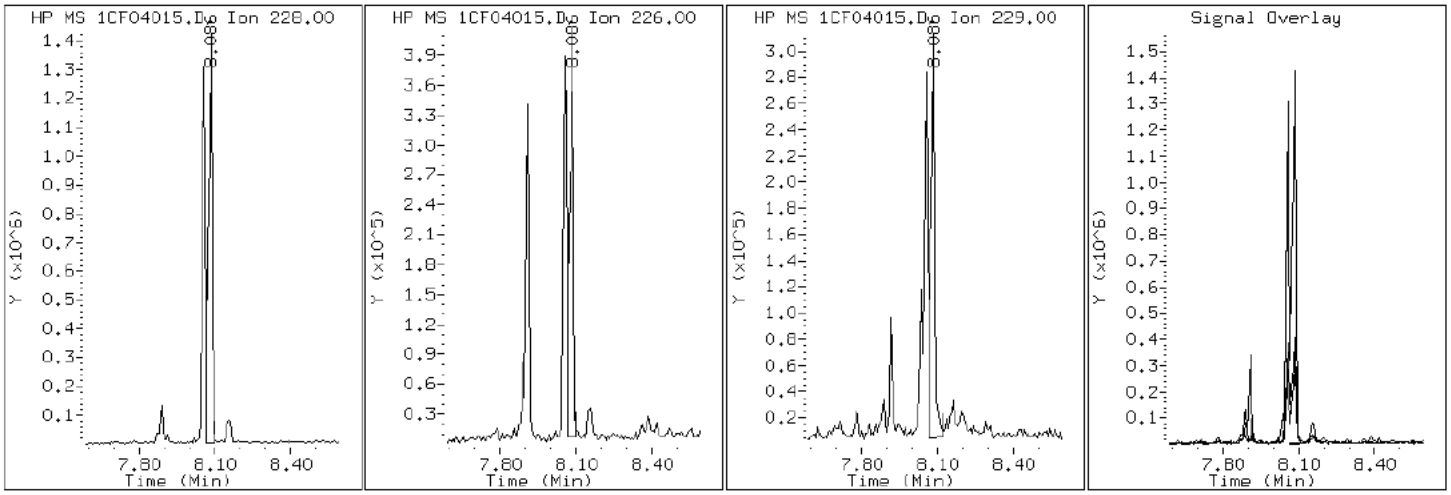
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

19 Chrysene



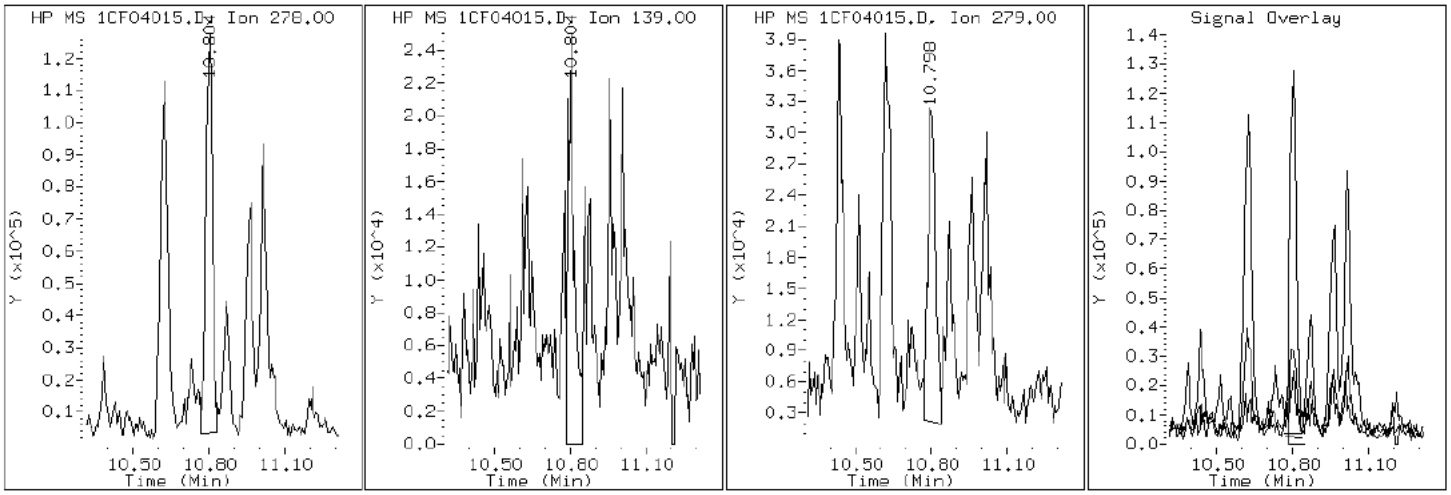
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



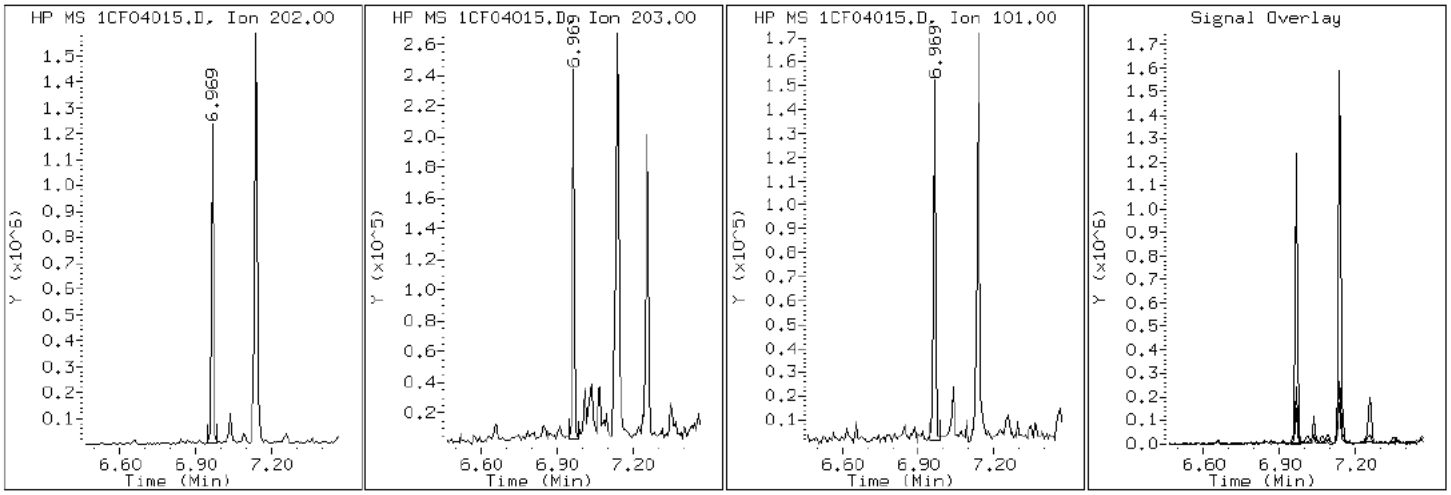
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

15 Fluoranthene



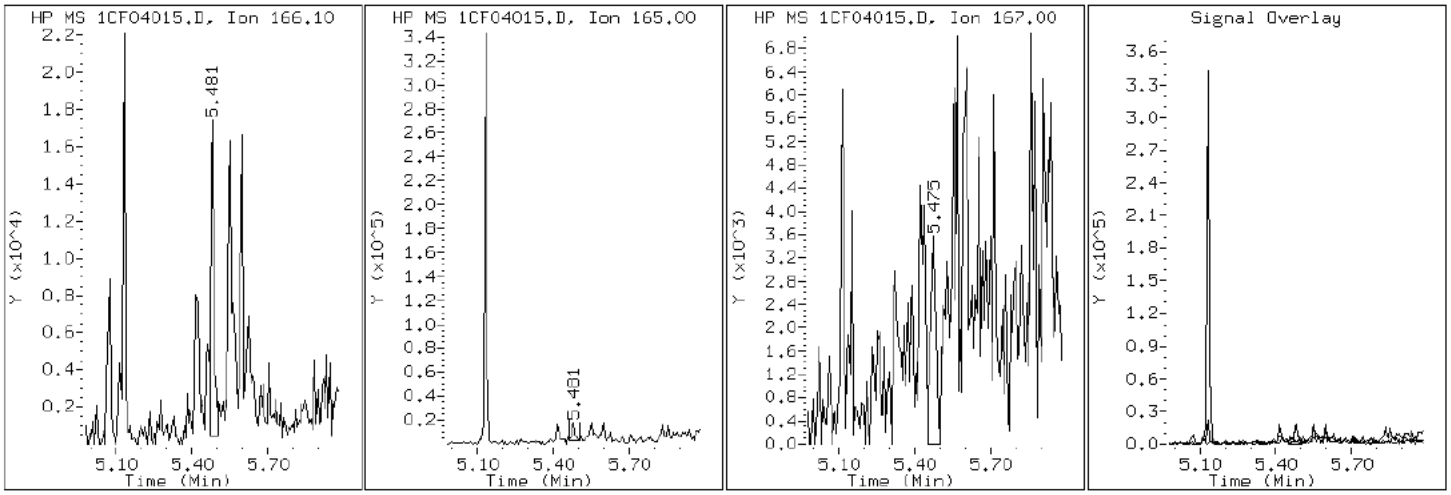
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

9 Fluorene



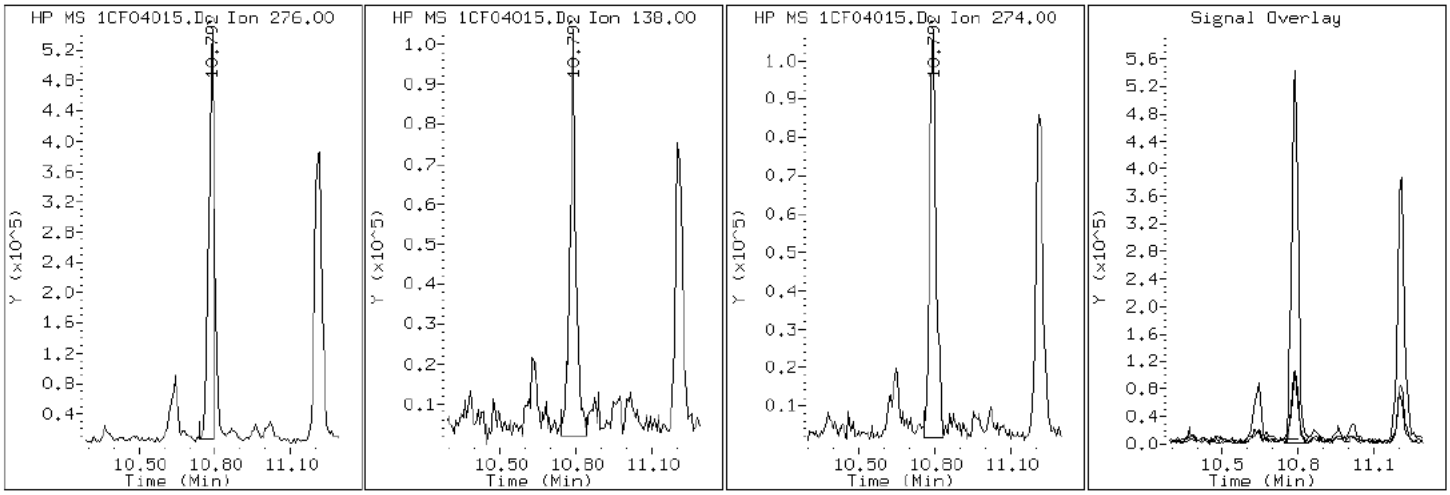
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

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



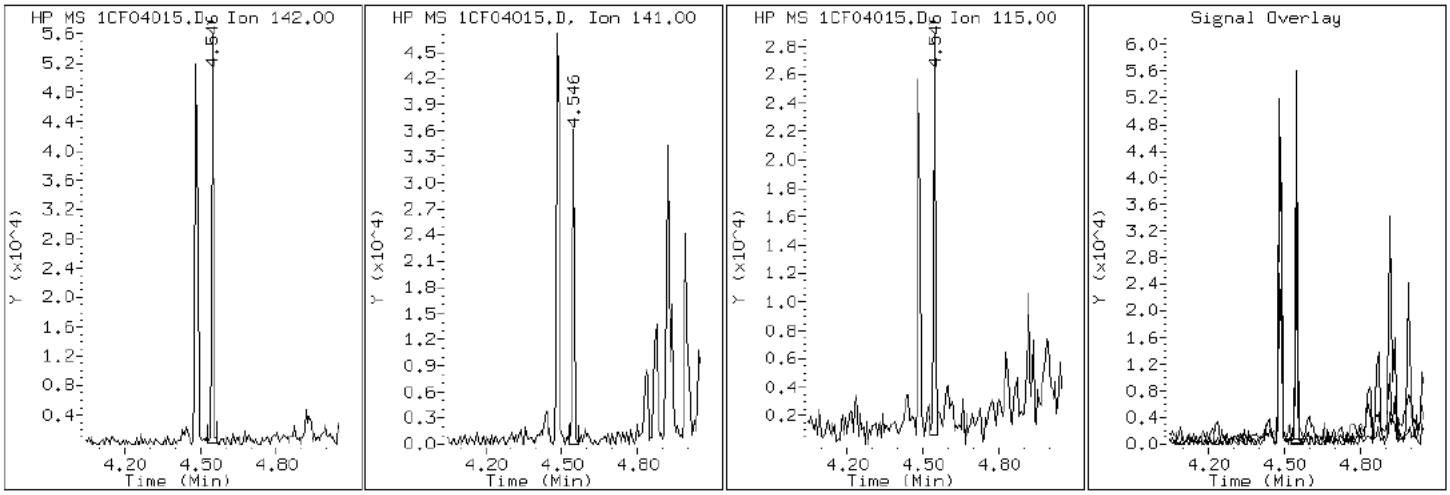
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

4 1-Methylnaphthalene



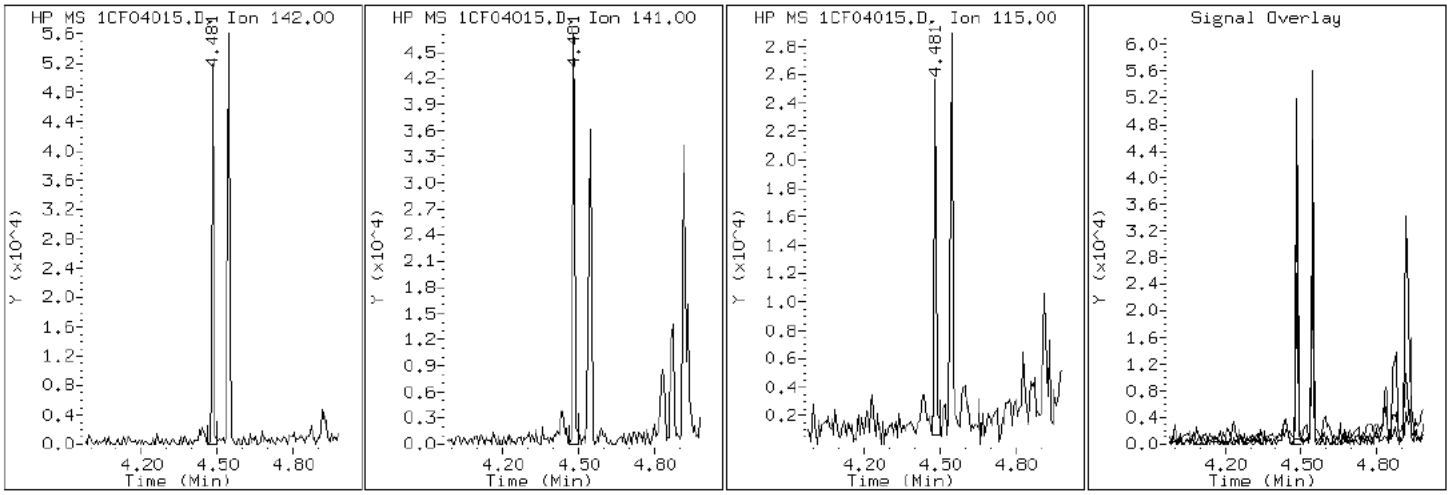
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

3 2-Methylnaphthalene



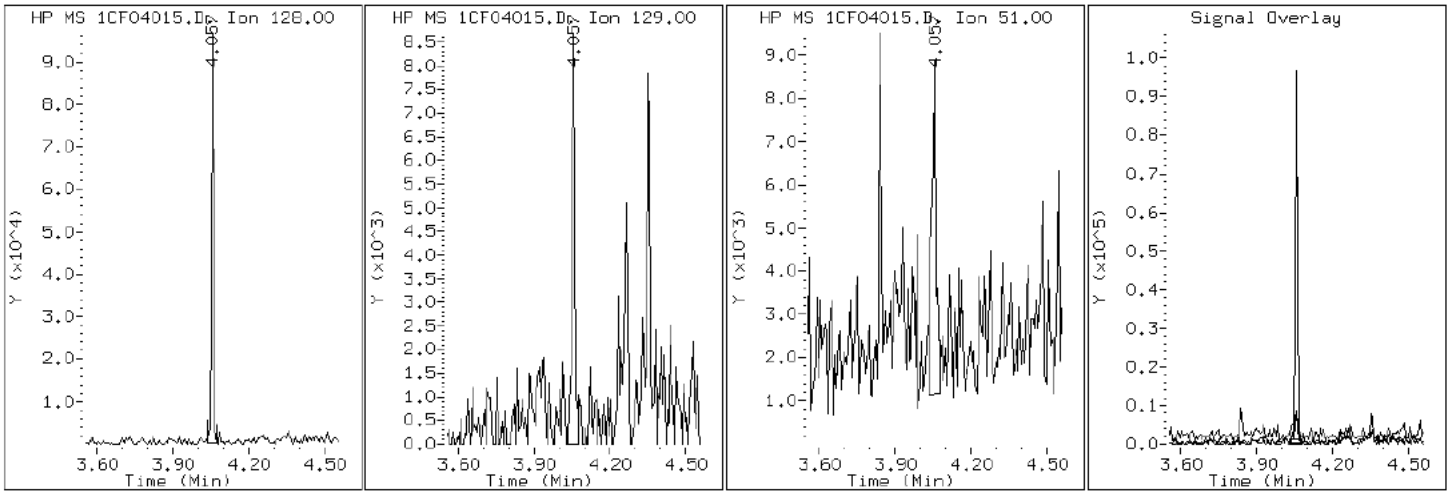
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

2 Naphthalene



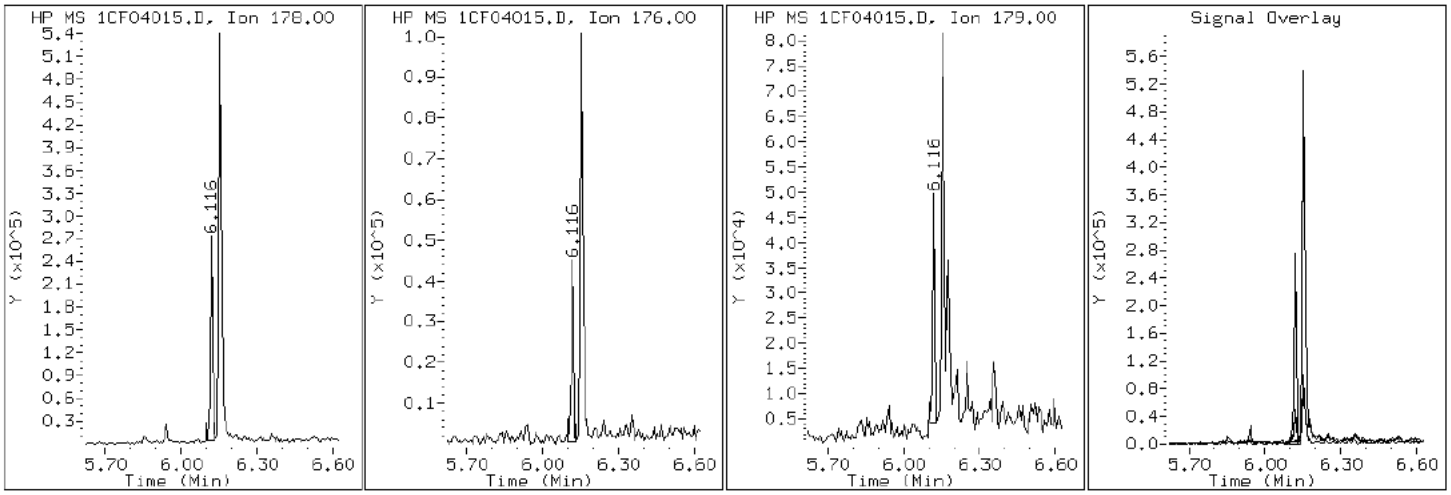
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

11 Phenanthrene



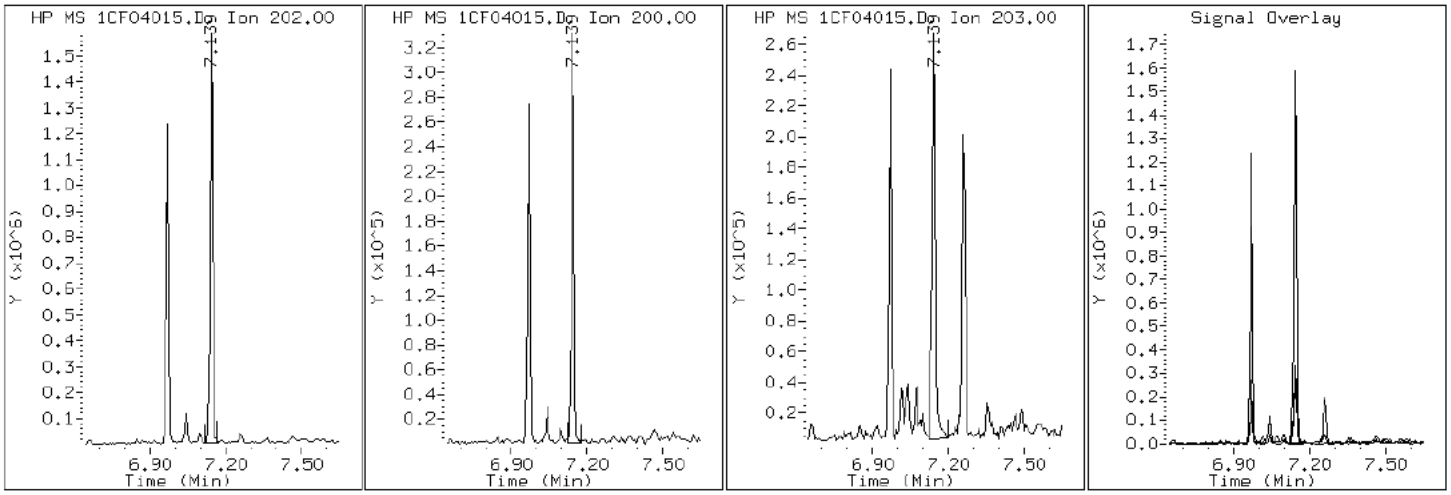
Data File: 1CF04015.D

Date: 04-JUN-2013 14:34

Client ID: CV1347C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04015.D
Inj. Date and Time: 04-JUN-2013 14:34
Instrument ID: BSMC5973.i
Client ID: CV1347C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

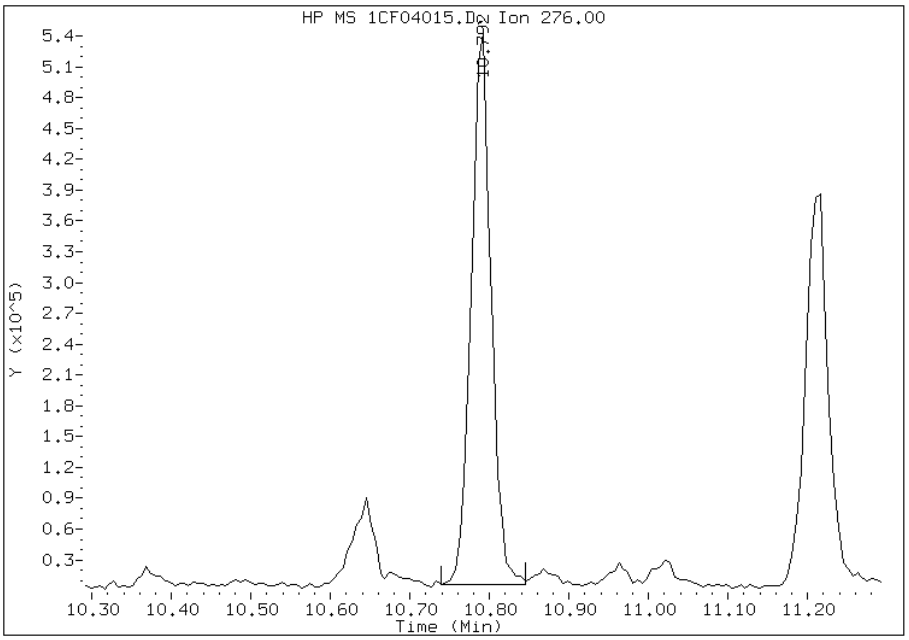
Processing Integration Results

RT: 10.79

Response: 924588

Amount: 11

Conc: 951



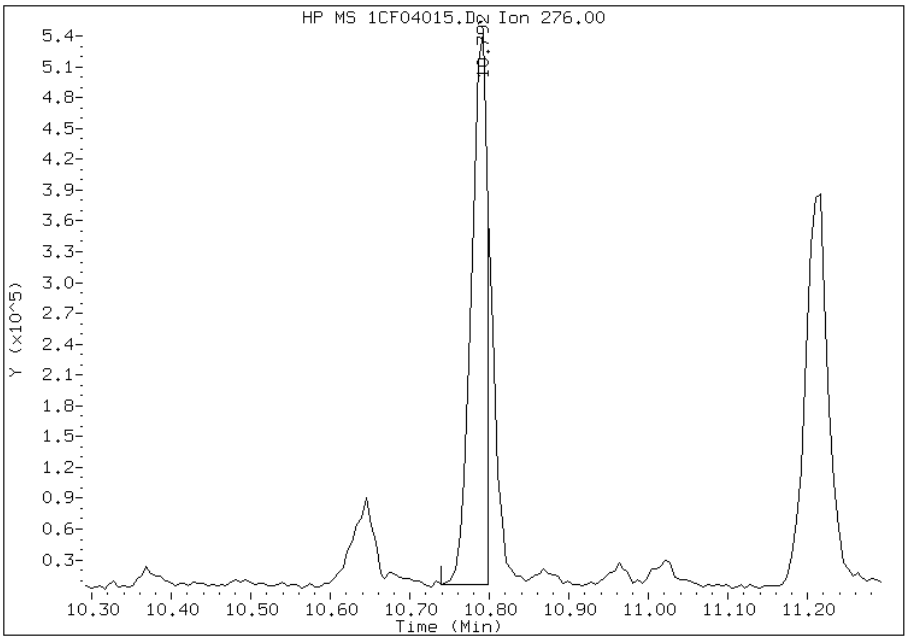
Manual Integration Results

RT: 10.79

Response: 758329

Amount: 9

Conc: 3128



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978A-CS | Lab Sample ID: 680-90723-9

Matrix: Solid | Lab File ID: 1CF04016.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 09:45

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

Sample wt/vol: 15.43(g) | Date Analyzed: 06/04/2013 14:53

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

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

% Moisture: 22.8 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	110	J	200	25
120-12-7	Anthracene	140		42	21
56-55-3	Benzo[a]anthracene	770		40	20
50-32-8	Benzo[a]pyrene	810		52	26
205-99-2	Benzo[b]fluoranthene	1500		61	31
191-24-2	Benzo[g,h,i]perylene	690		100	22
207-08-9	Benzo[k]fluoranthene	430		40	18
218-01-9	Chrysene	1000		45	23
53-70-3	Dibenz(a,h)anthracene	220		100	21
206-44-0	Fluoranthene	1300		100	20
86-73-7	Fluorene	44	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	470		100	36
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	270		200	36
91-20-3	Naphthalene	200		200	22
85-01-8	Phenanthrene	630	B	40	20
129-00-0	Pyrene	1400		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04016.D
Lab Smp Id: 680-90723-A-9-A Client Smp ID: CV0978A-CS
Inj Date : 04-JUN-2013 14:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-9-a
Misc Info : 680-90723-A-9-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.430	Weight Extracted
M	22.779	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2677338	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1873379	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3301172	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	105950	2.06033	691.6640
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3237758	40.0000	
* 23 Perylene-d12	264	9.403	9.409	(1.000)	3244568	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	45351	0.60024	201.5056
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	33831	0.80728	271.0072
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	26930	0.65314	219.2628
5 Acenaphthylene	152	5.045	5.045	(0.983)	23317	0.32467	108.9940
9 Fluorene	166	5.474	5.480	(1.066)	7469	0.12998	43.6335(Q)
11 Phenanthrene	178	6.115	6.121	(1.002)	182081	1.86691	626.7333
12 Anthracene	178	6.151	6.157	(1.008)	38658	0.42784	143.6288
13 Carbazole	167	6.257	6.257	(1.025)	24837	0.40915	137.3529

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	381685	3.82874	1285.3291
16 Pyrene	202	7.139	7.145	(0.885)	352132	4.02761	1352.0916
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	204740	2.29325	769.8564
19 Chrysene	228	8.086	8.092	(1.002)	266732	2.96737	996.1632
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	348939	4.37720	1469.4515(M)
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.959)	113833	1.27851	429.2024(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	187700	2.40310	806.7339
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	108100	1.40415	471.3801(M)
25 Dibenzo(a,h)anthracene	278	10.797	10.815	(1.148)	44537	0.64311	215.8968
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	153868	2.04133	685.2862

QC Flag Legend

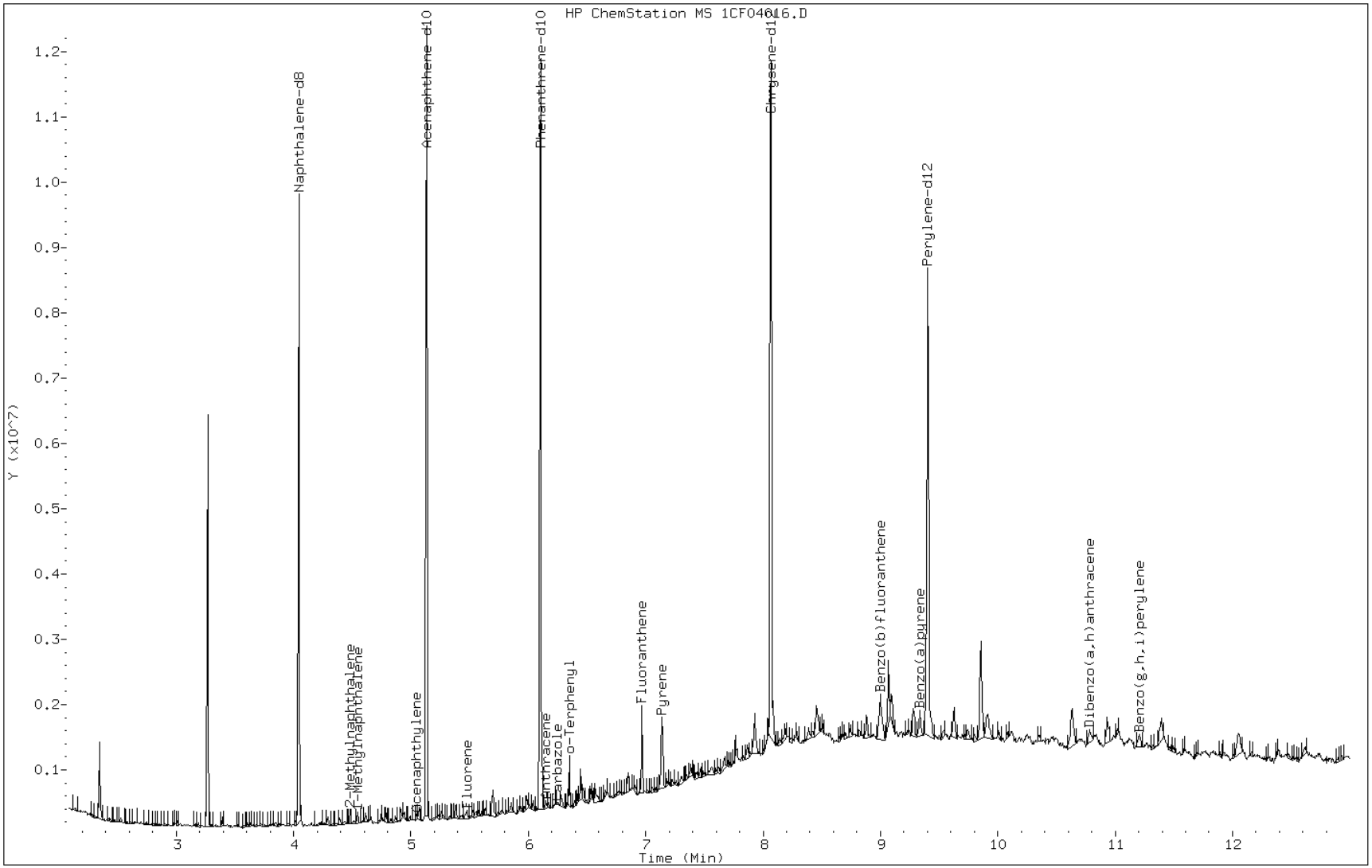
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC



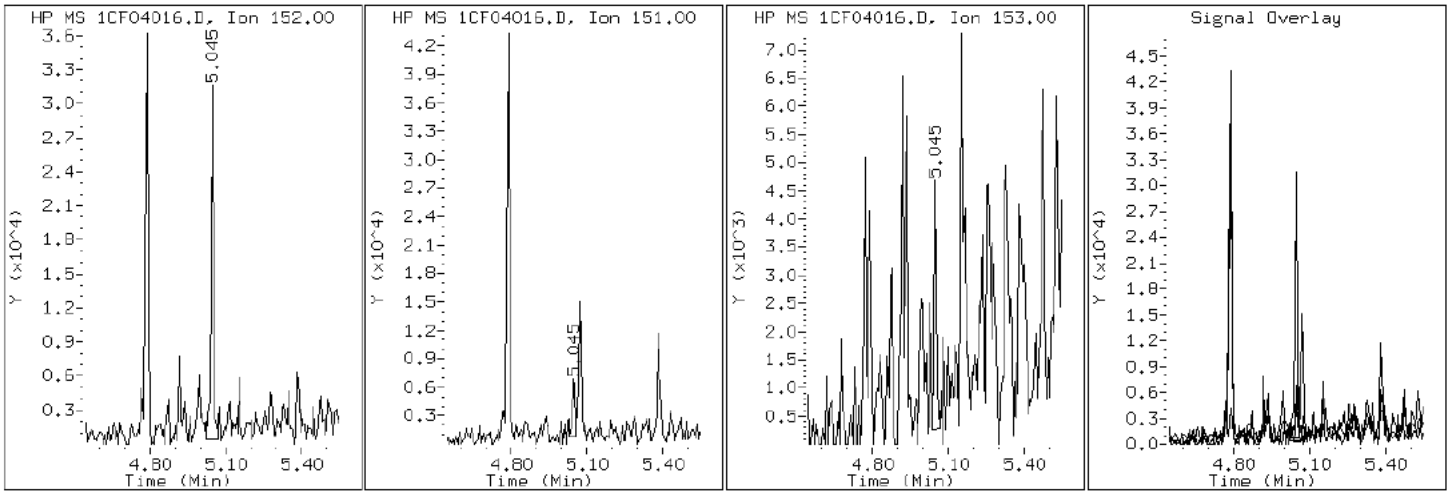
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

5 Acenaphthylene



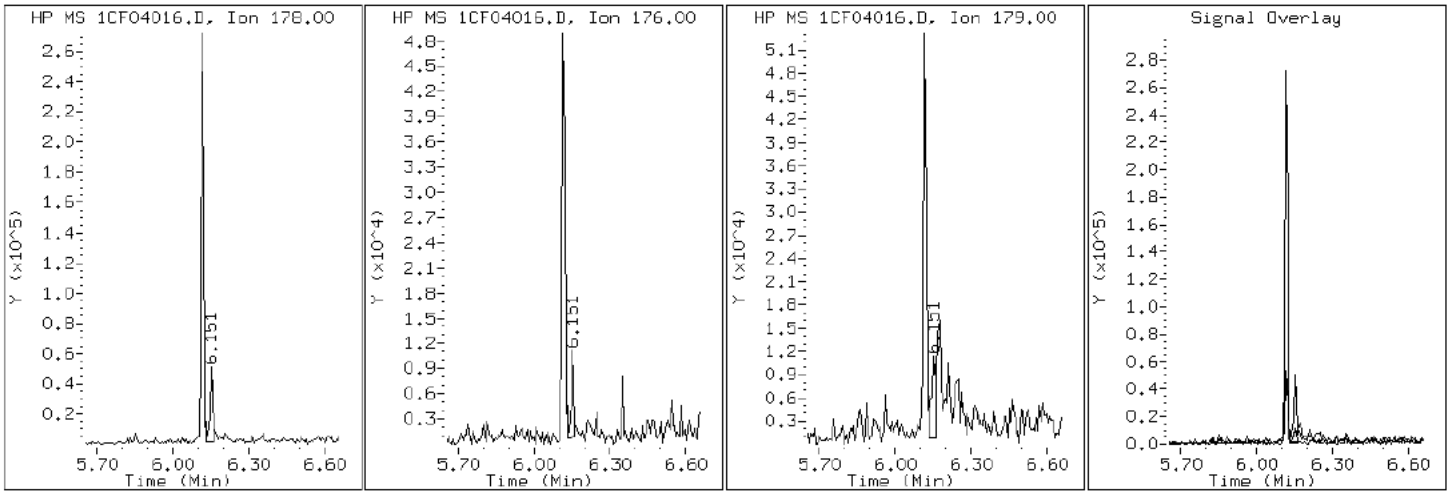
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

12 Anthracene



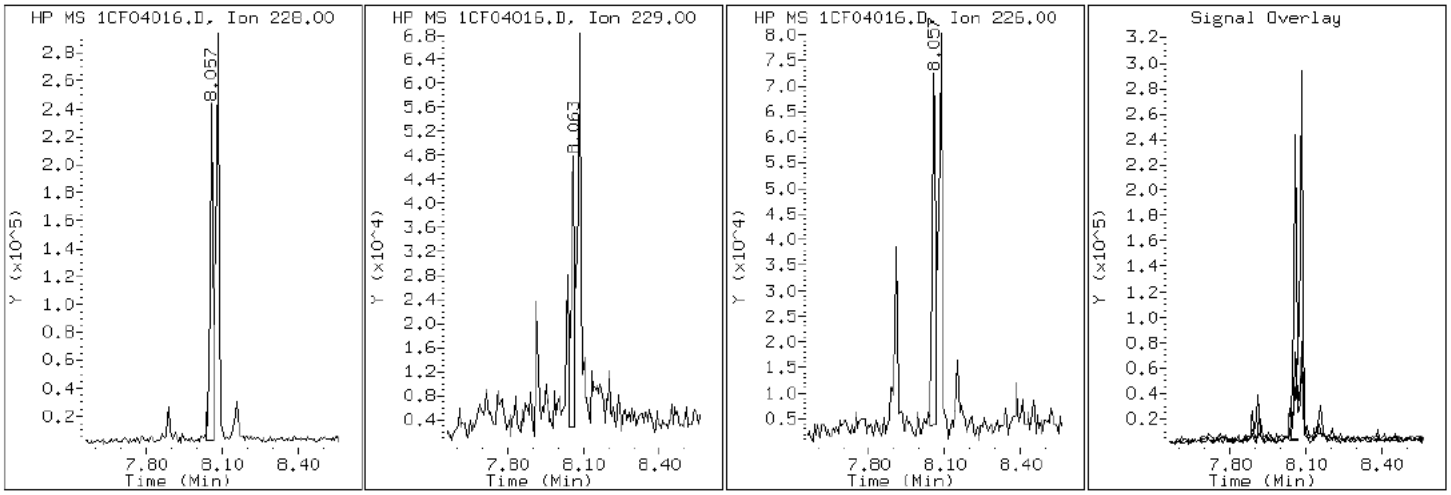
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

17 Benzo(a)anthracene



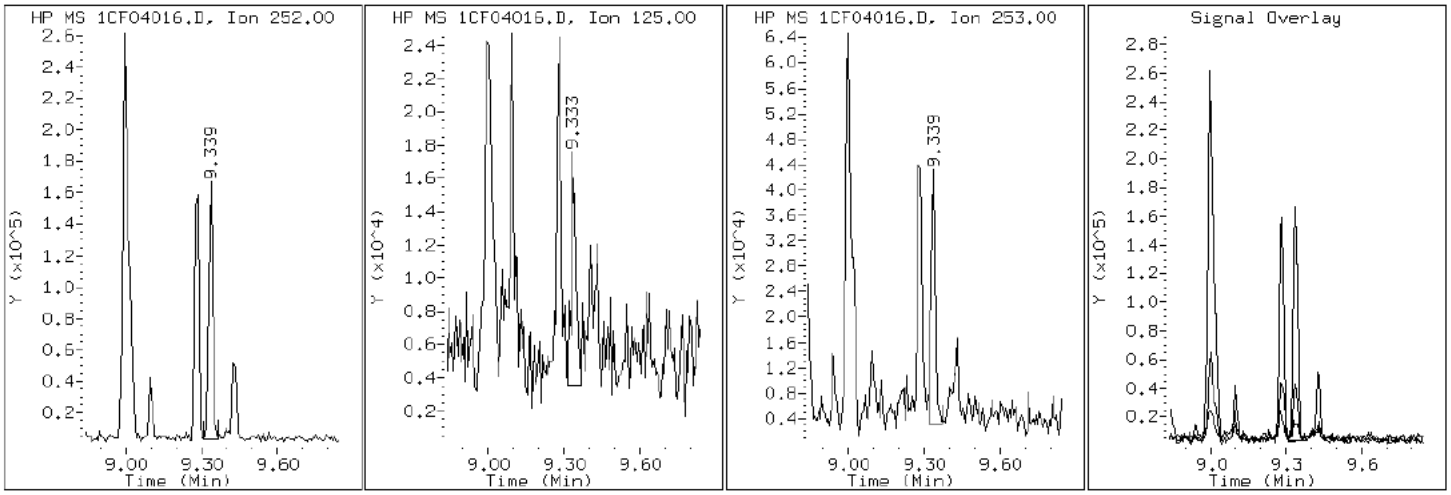
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

22 Benzo(a)pyrene



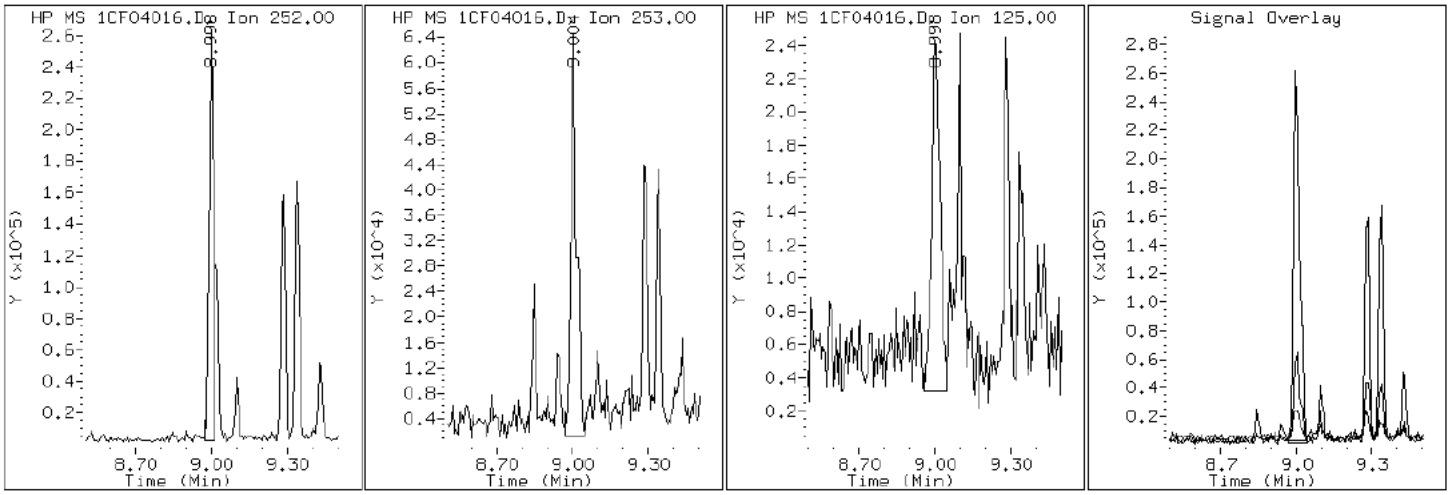
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



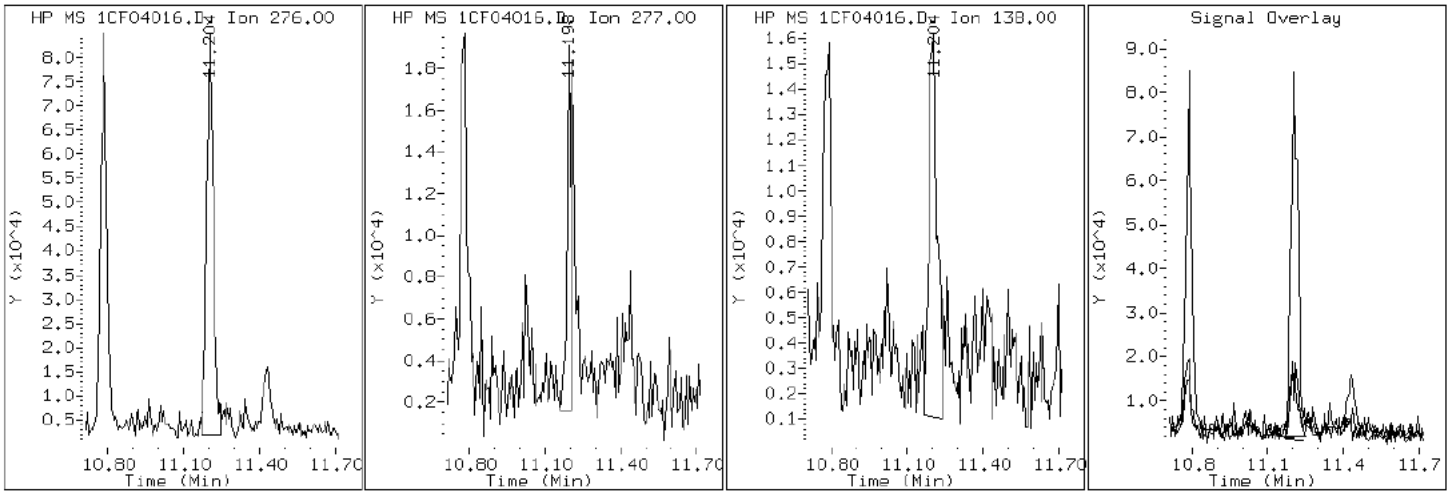
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



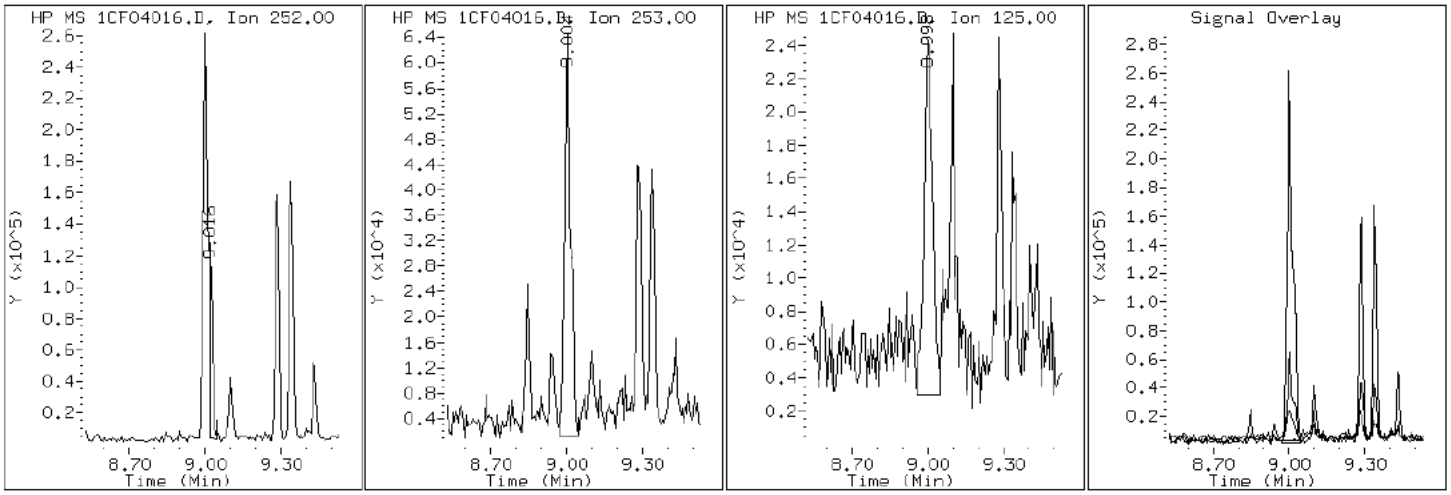
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



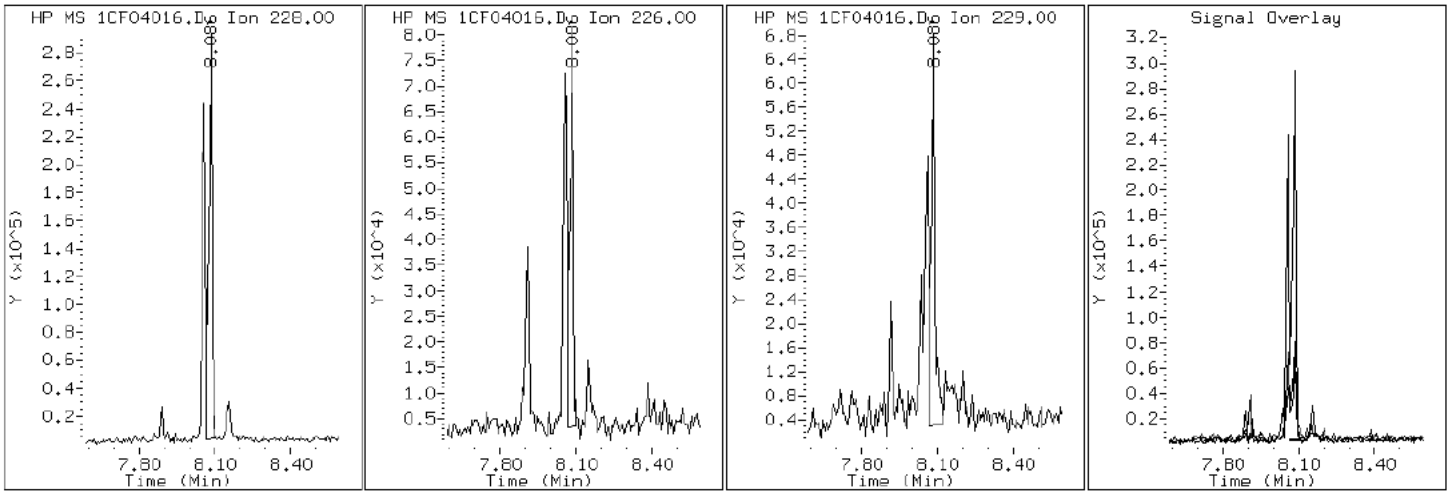
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

19 Chrysene



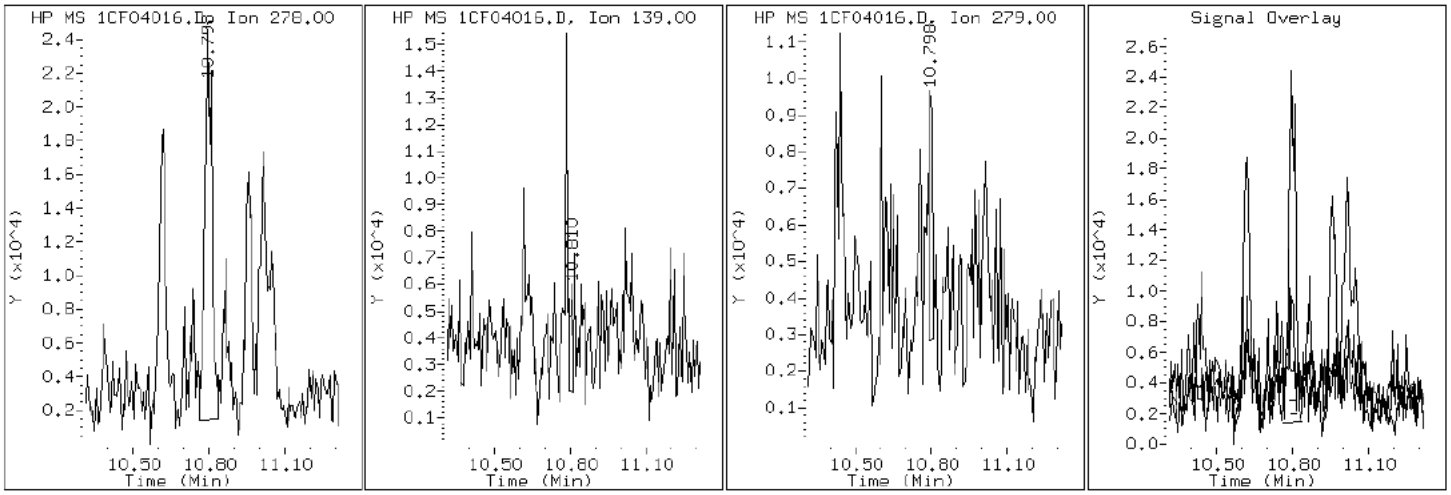
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

25 Dibenzo(a,h)anthracene



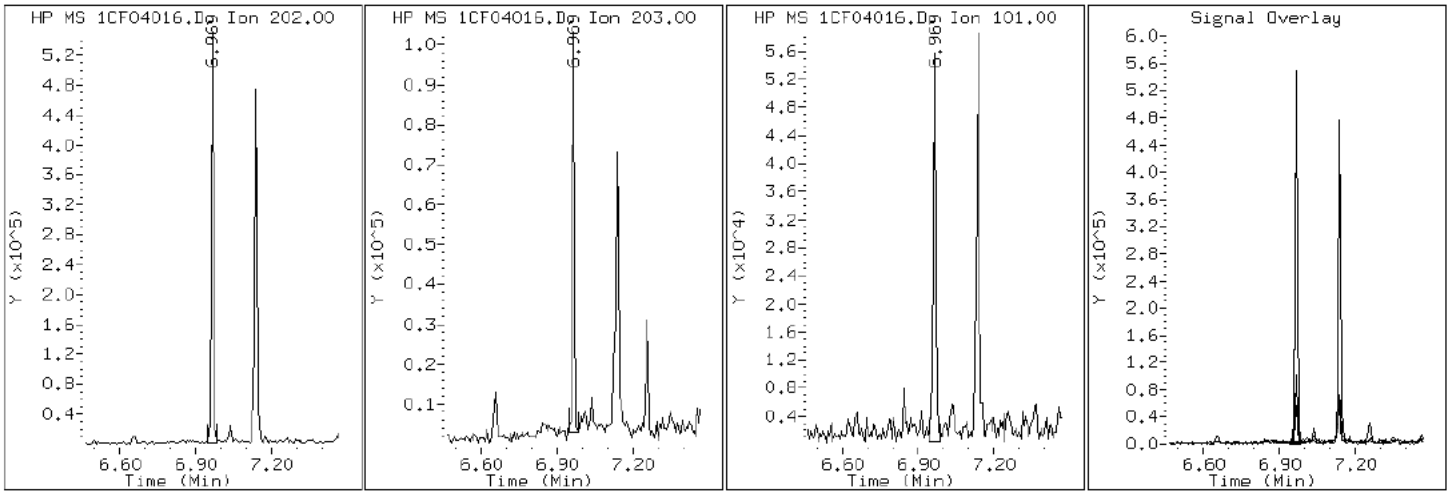
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

15 Fluoranthene



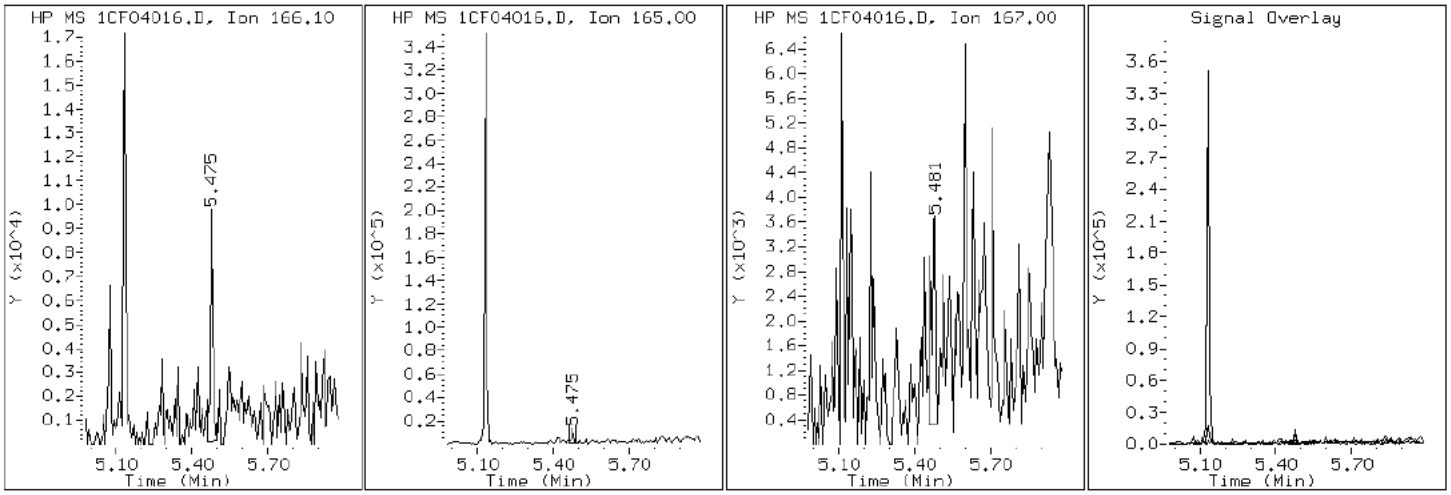
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

9 Fluorene



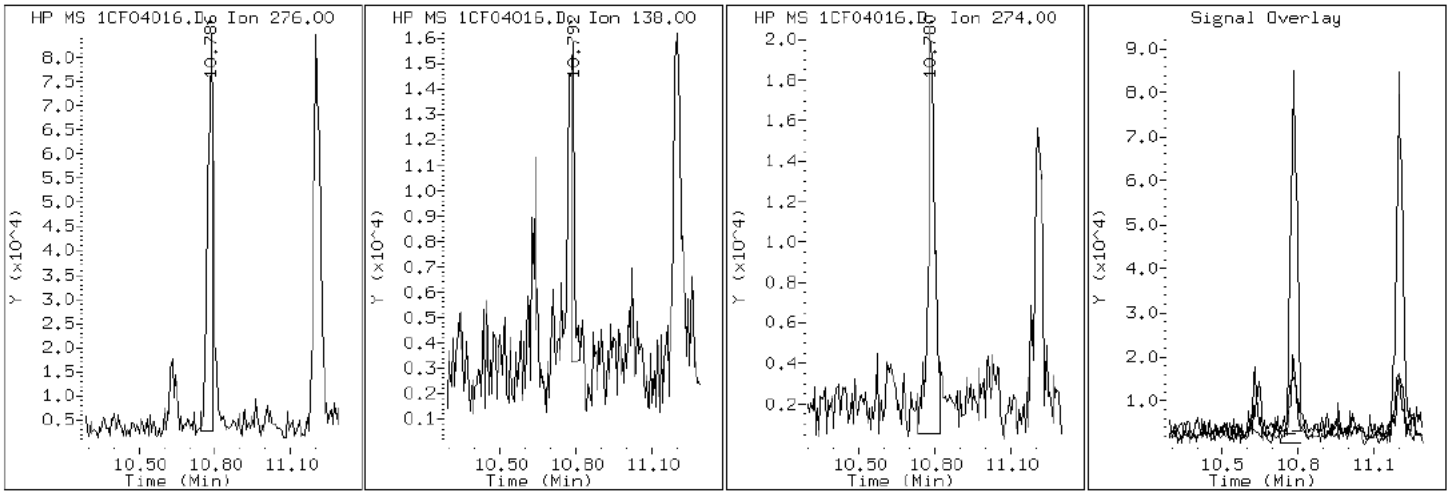
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

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



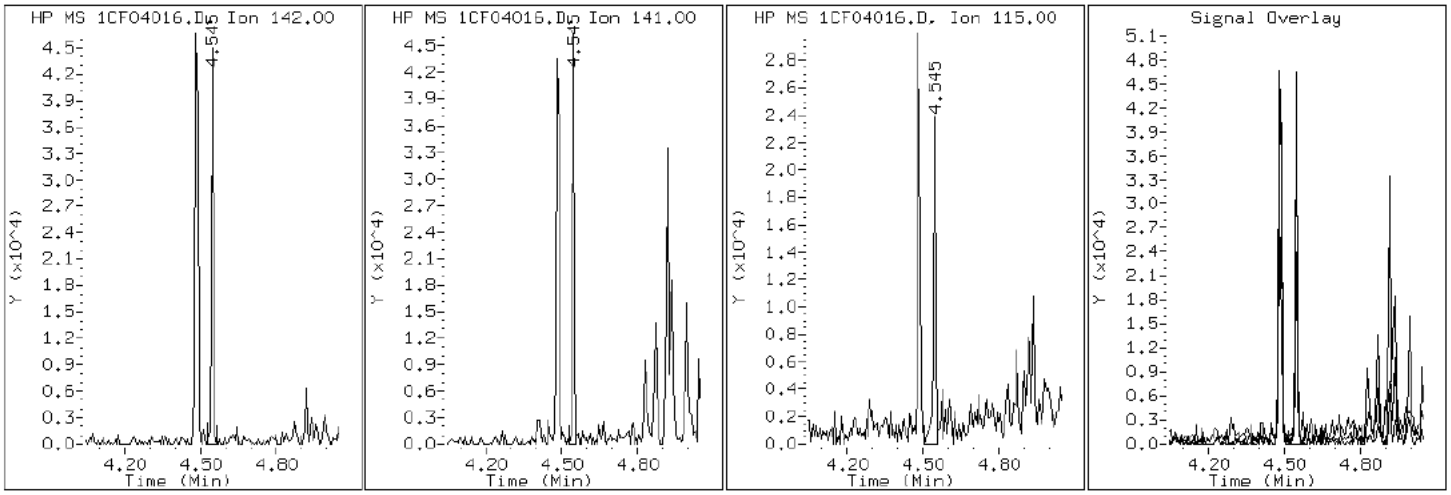
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

4 1-Methylnaphthalene



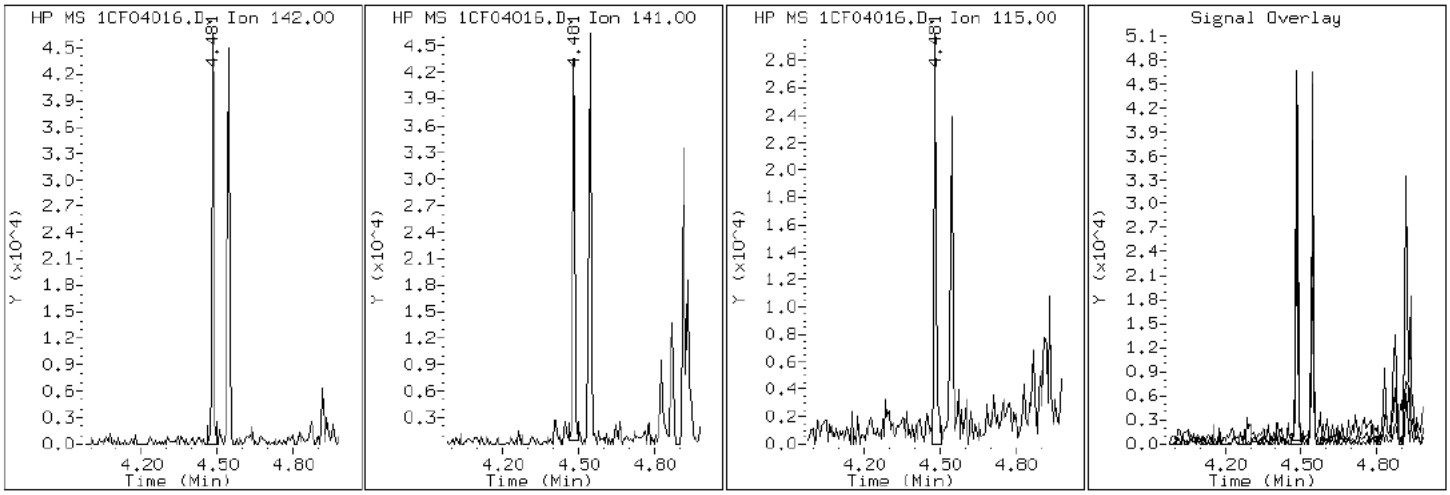
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

3 2-Methylnaphthalene



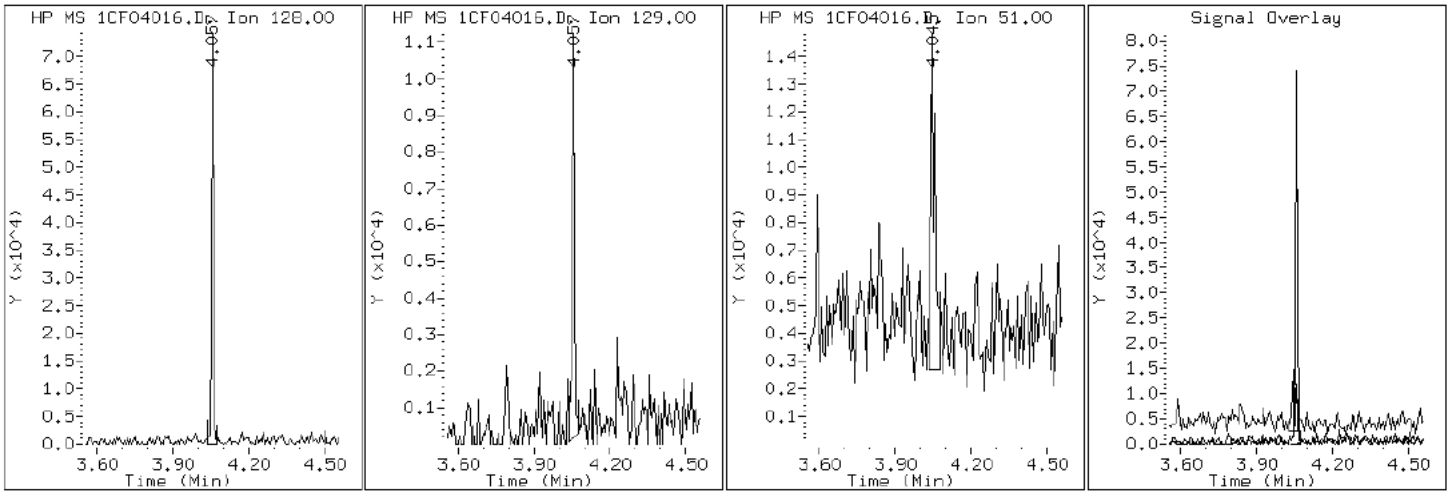
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

2 Naphthalene



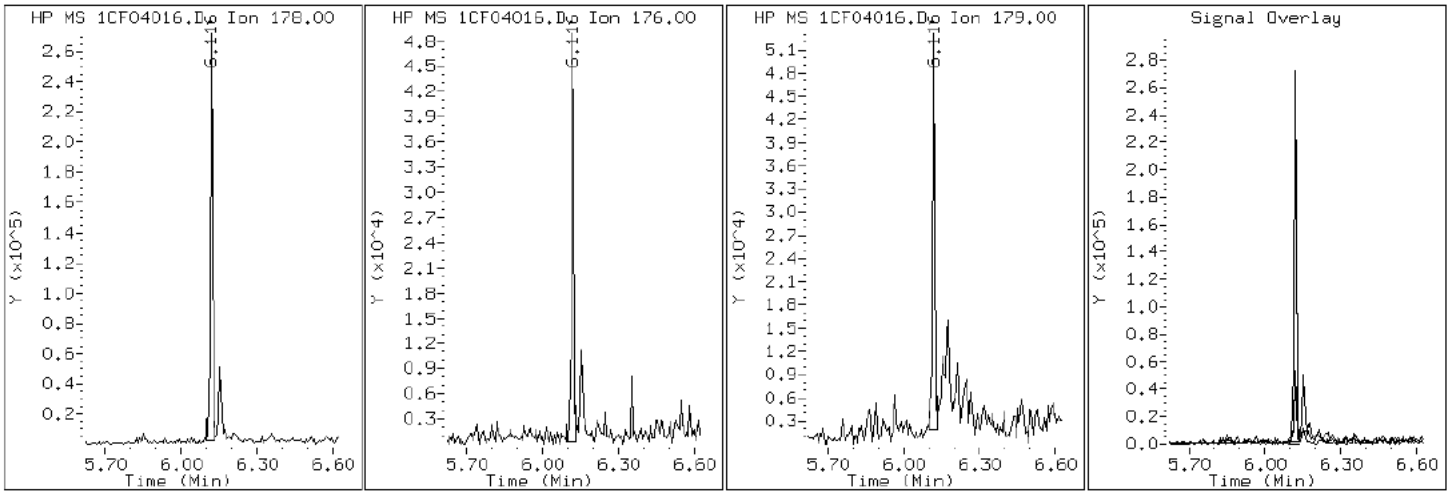
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

11 Phenanthrene



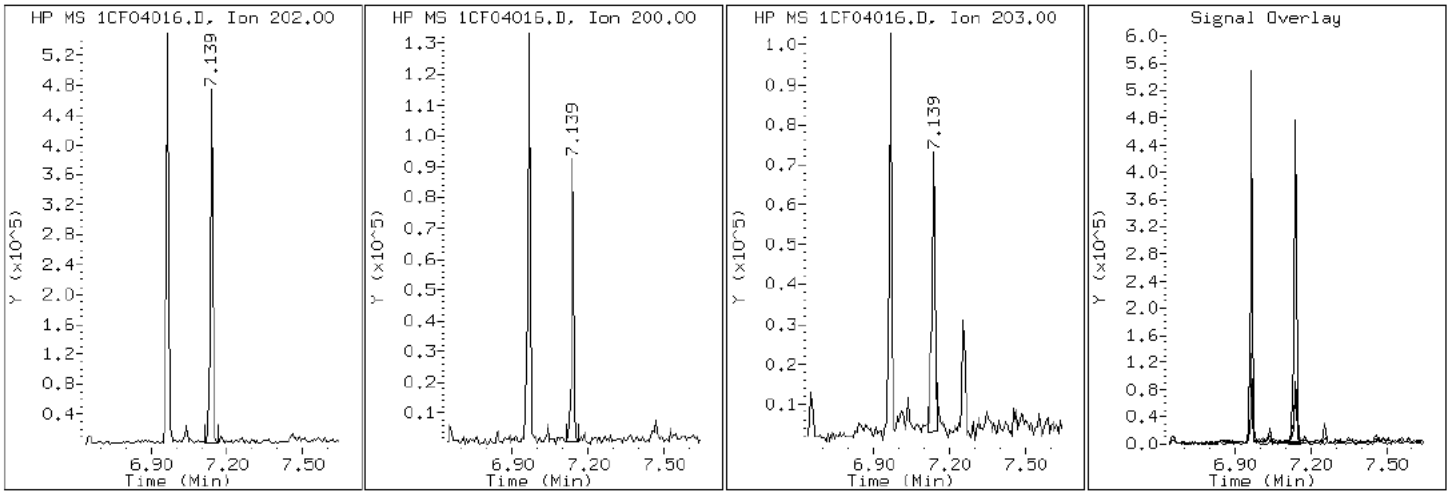
Data File: 1CF04016.D

Date: 04-JUN-2013 14:53

Client ID: CV0978A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04016.D
Inj. Date and Time: 04-JUN-2013 14:53
Instrument ID: BSMC5973.i
Client ID: CV0978A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

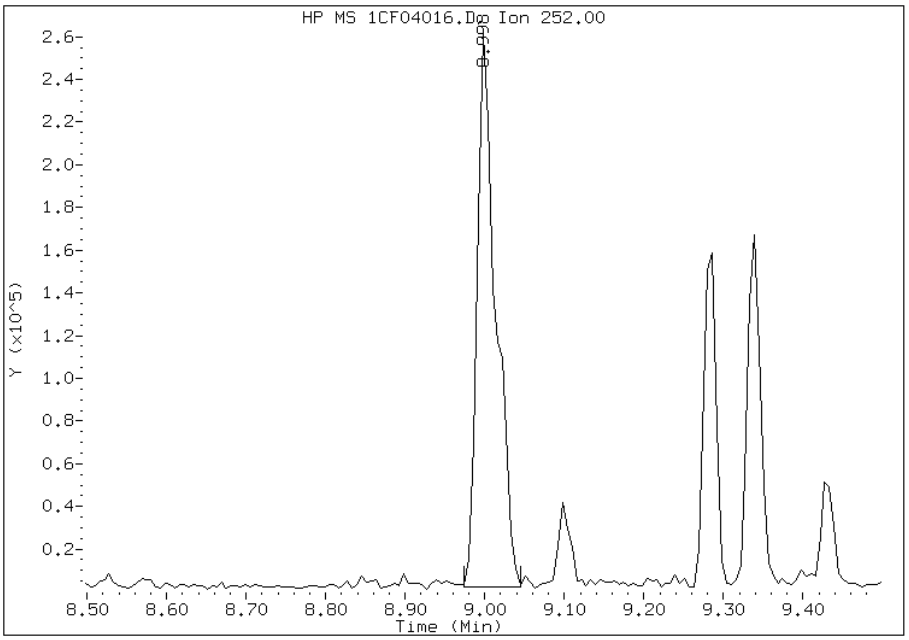
Processing Integration Results

RT: 9.00

Response: 425205

Amount: 5

Conc: 1791



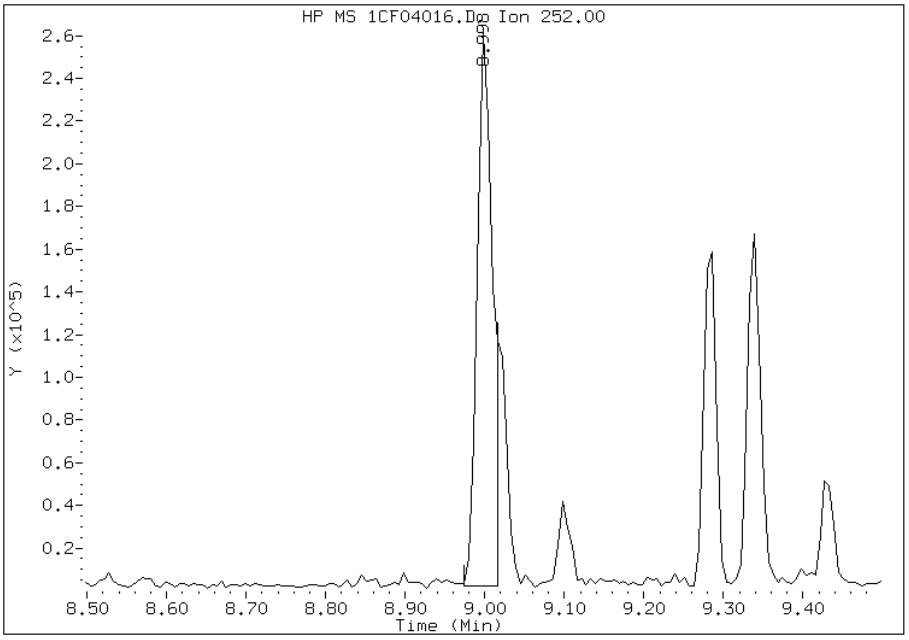
Manual Integration Results

RT: 9.00

Response: 348939

Amount: 4

Conc: 1469



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04016.D
Inj. Date and Time: 04-JUN-2013 14:53
Instrument ID: BSMC5973.i
Client ID: CV0978A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

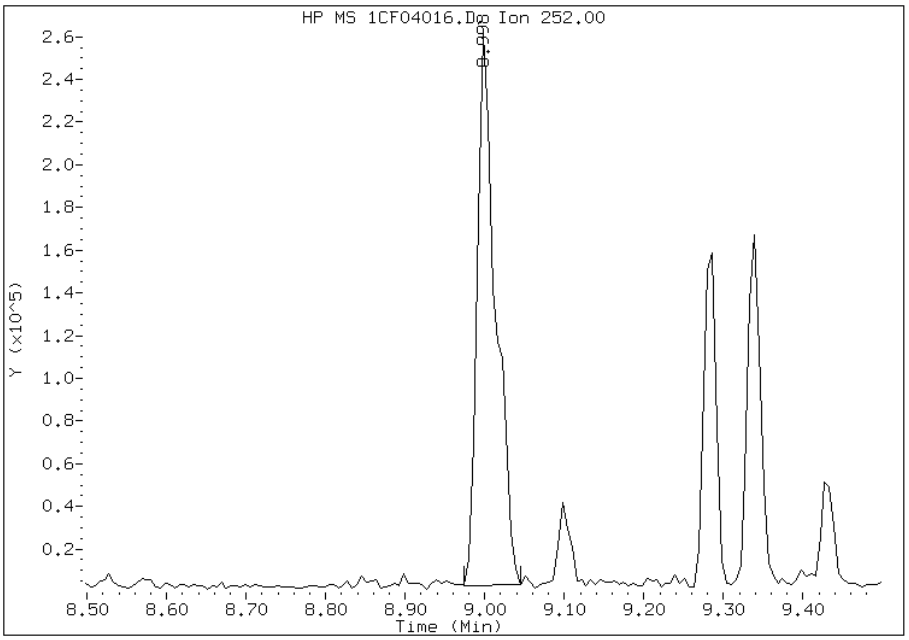
Processing Integration Results

RT: 9.00

Response: 420149

Amount: 5

Conc: 1584



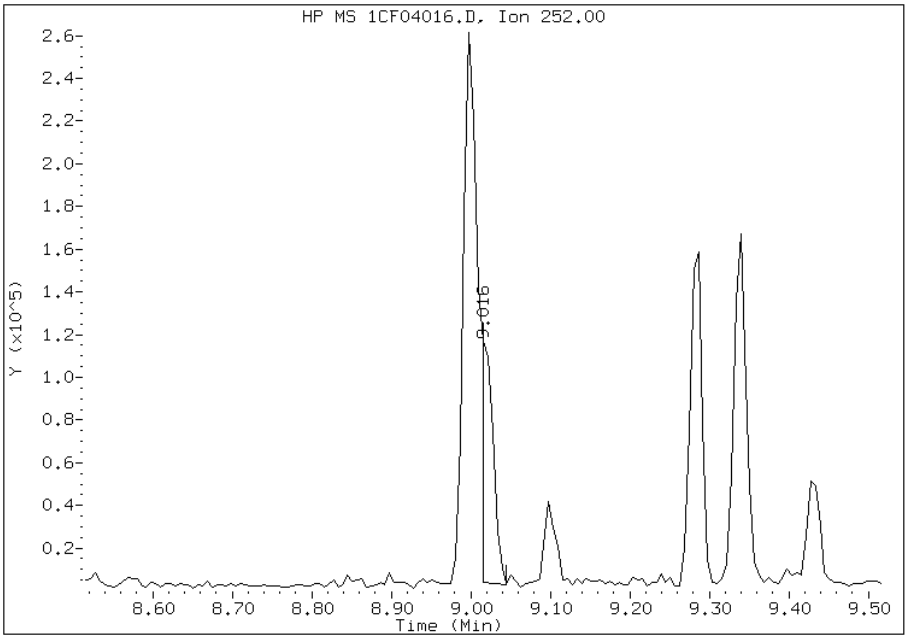
Manual Integration Results

RT: 9.02

Response: 113833

Amount: 1

Conc: 429



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04016.D
Inj. Date and Time: 04-JUN-2013 14:53
Instrument ID: BSMC5973.i
Client ID: CV0978A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

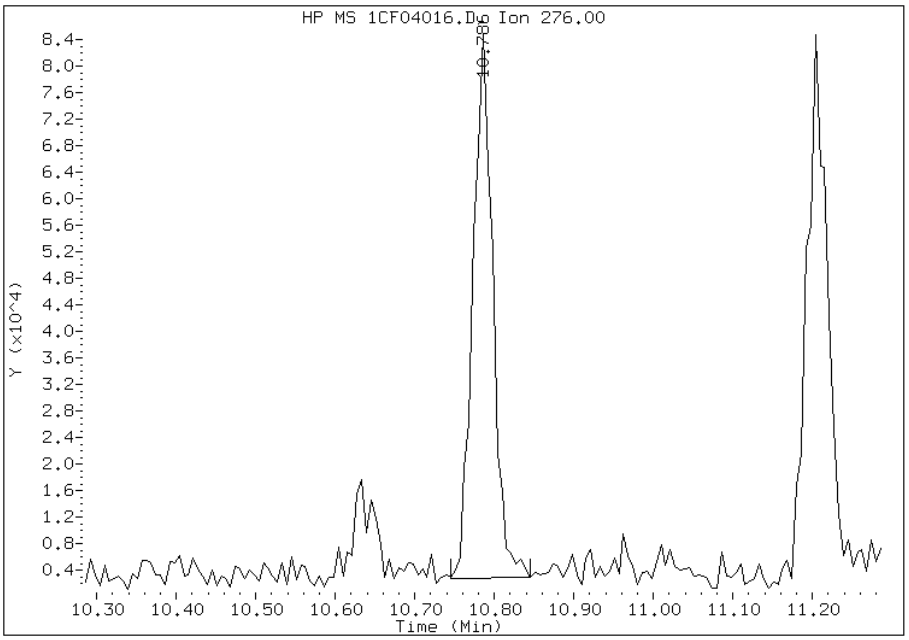
Processing Integration Results

RT: 10.79

Response: 141943

Amount: 2

Conc: 602



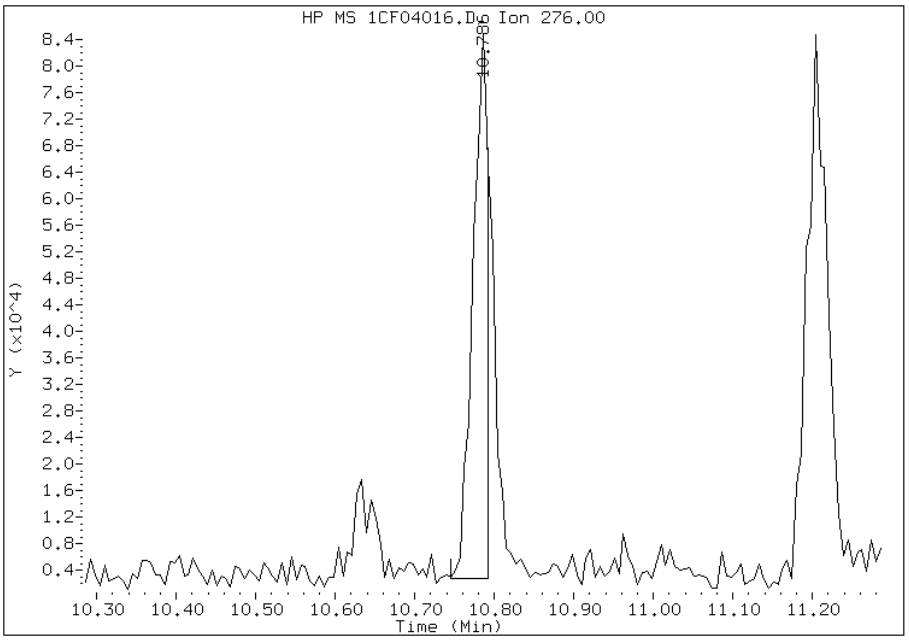
Manual Integration Results

RT: 10.79

Response: 108100

Amount: 1

Conc: 471



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978A-CSD | Lab Sample ID: 680-90723-10

Matrix: Solid | Lab File ID: 1CF04017.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 09:45

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

Sample wt/vol: 15.35(g) | Date Analyzed: 06/04/2013 15:11

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

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

% Moisture: 20.8 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	100	J	200	25
120-12-7	Anthracene	130		41	21
56-55-3	Benzo[a]anthracene	670		39	19
50-32-8	Benzo[a]pyrene	730		51	26
205-99-2	Benzo[b]fluoranthene	1300		60	30
191-24-2	Benzo[g,h,i]perylene	750		99	22
207-08-9	Benzo[k]fluoranthene	620		39	18
218-01-9	Chrysene	960		44	22
53-70-3	Dibenz(a,h)anthracene	230		99	20
206-44-0	Fluoranthene	1400		99	20
86-73-7	Fluorene	49	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	590		99	35
90-12-0	1-Methylnaphthalene	200		200	22
91-57-6	2-Methylnaphthalene	240		200	35
91-20-3	Naphthalene	180	J	200	22
85-01-8	Phenanthrene	860	B	39	19
129-00-0	Pyrene	1300		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04017.D
Lab Smp Id: 680-90723-A-10-A Client Smp ID: CV0978A-CSD
Inj Date : 04-JUN-2013 15:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-10-a
Misc Info : 680-90723-A-10-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 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	15.350	Weight Extracted
M	20.771	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2658125	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1786610	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3173831	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	105562	2.13514	702.2538
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3261458	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3278492	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	40123	0.53489	175.9258
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	29823	0.71678	235.7507
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	24754	0.60470	198.8885
	5 Acenaphthylene	152	5.045	5.045	(0.983)	21807	0.31839	104.7200
	9 Fluorene	166	5.480	5.480	(1.068)	8159	0.14888	48.9665
	11 Phenanthrene	178	6.115	6.121	(1.002)	243891	2.60099	855.4728
	12 Anthracene	178	6.151	6.157	(1.008)	34822	0.40085	131.8402
	13 Carbazole	167	6.257	6.257	(1.025)	37440	0.57629	189.5426

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	409844	4.27615	1406.4364
16 Pyrene	202	7.139	7.145	(0.885)	339891	3.85935	1269.3482
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	182220	2.02617	666.4131
19 Chrysene	228	8.086	8.092	(1.003)	265442	2.93156	964.1964
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	323716	4.01878	1321.7842(M)
21 Benzo(k)fluoranthene	252	9.009	9.027	(0.958)	170412	1.89417	622.9954(M)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	173724	2.20962	726.7485
24 Indeno(1,2,3-cd)pyrene	276	10.780	10.792	(1.146)	142562	1.78428	586.8524(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	48451	0.69239	227.7292(M)
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	174427	2.29014	753.2308(M)

QC Flag Legend

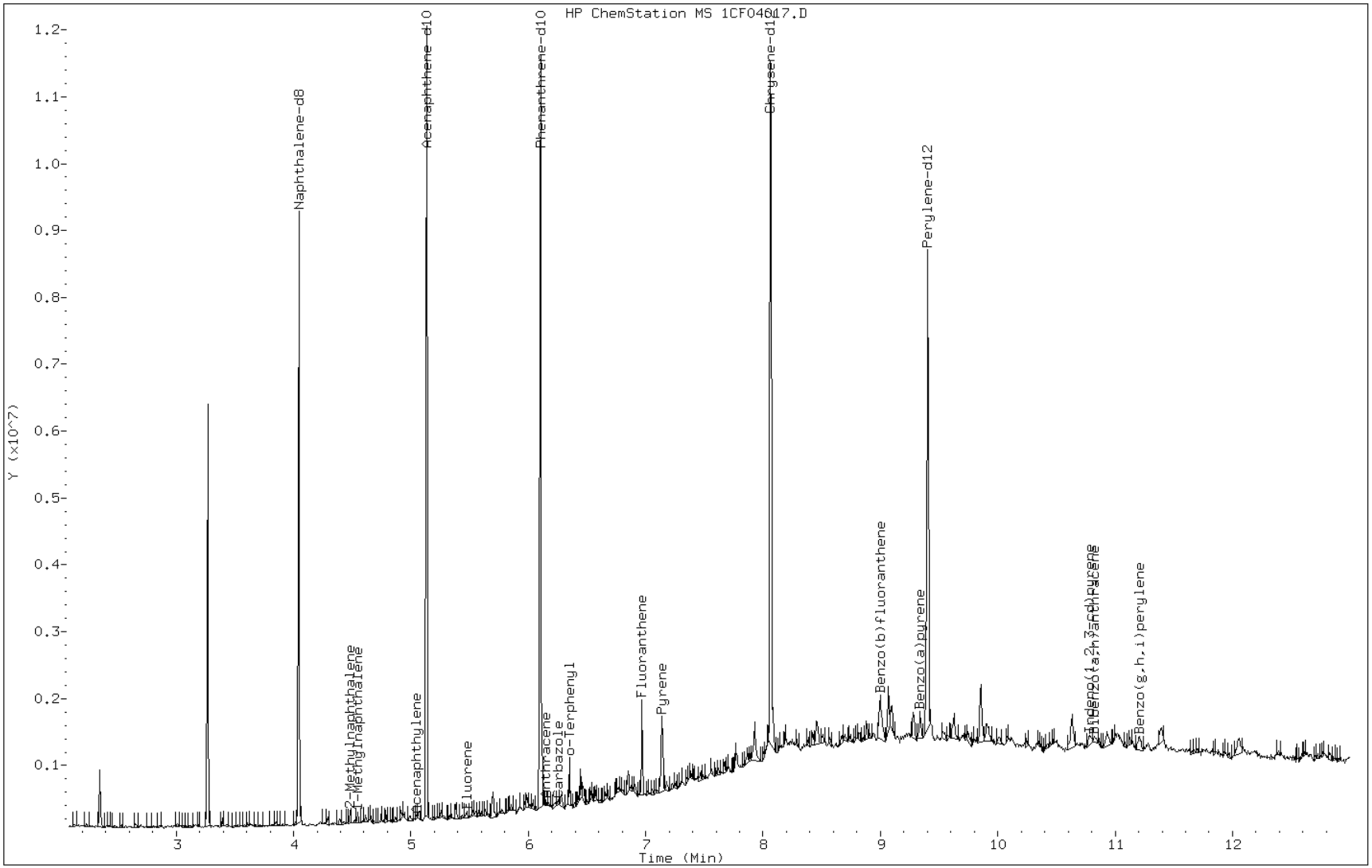
M - Compound response manually integrated.

Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC



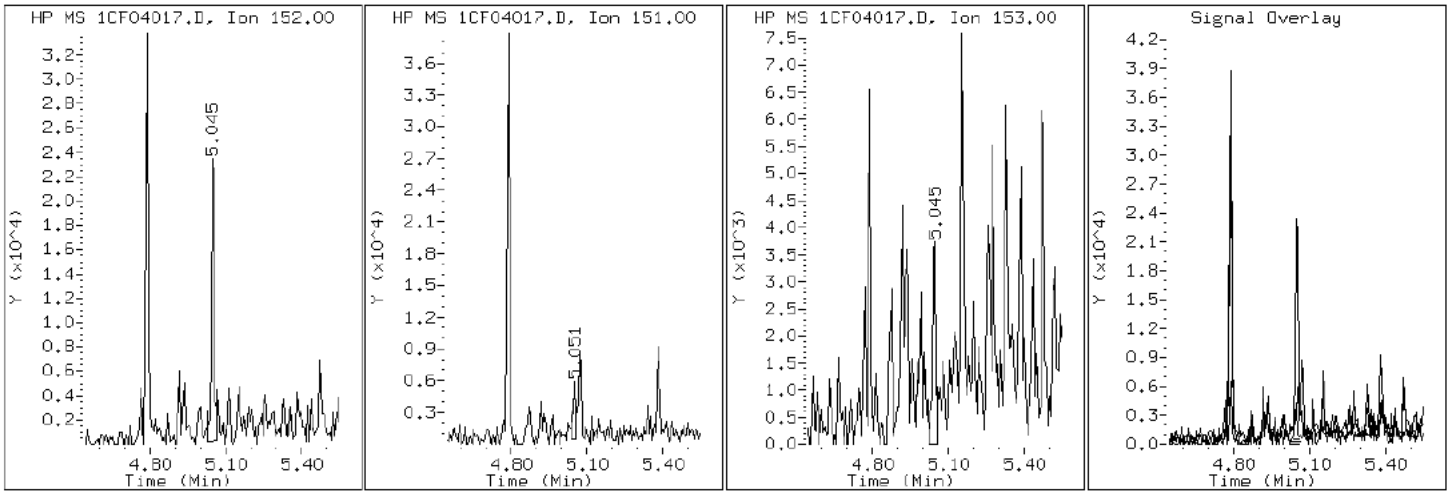
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

5 Acenaphthylene



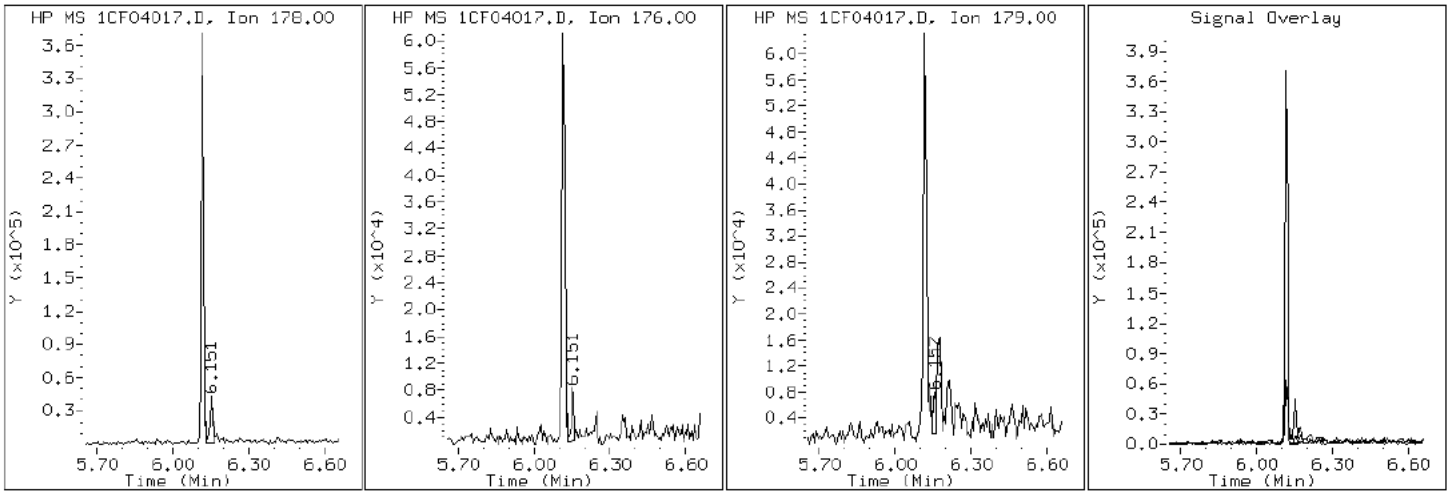
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

12 Anthracene



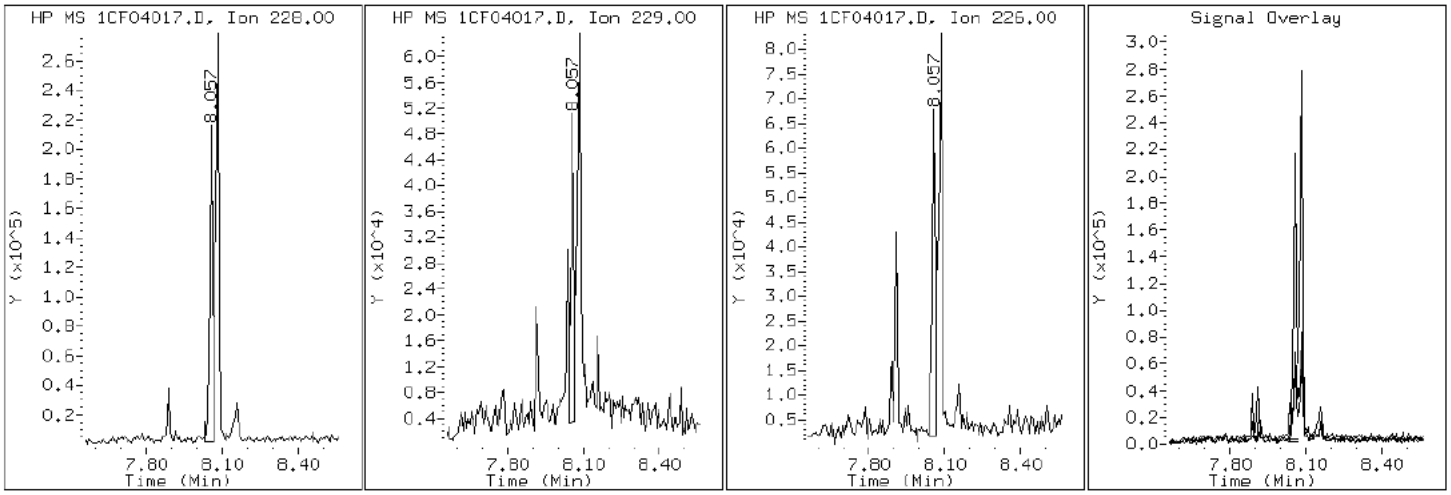
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

17 Benzo(a)anthracene



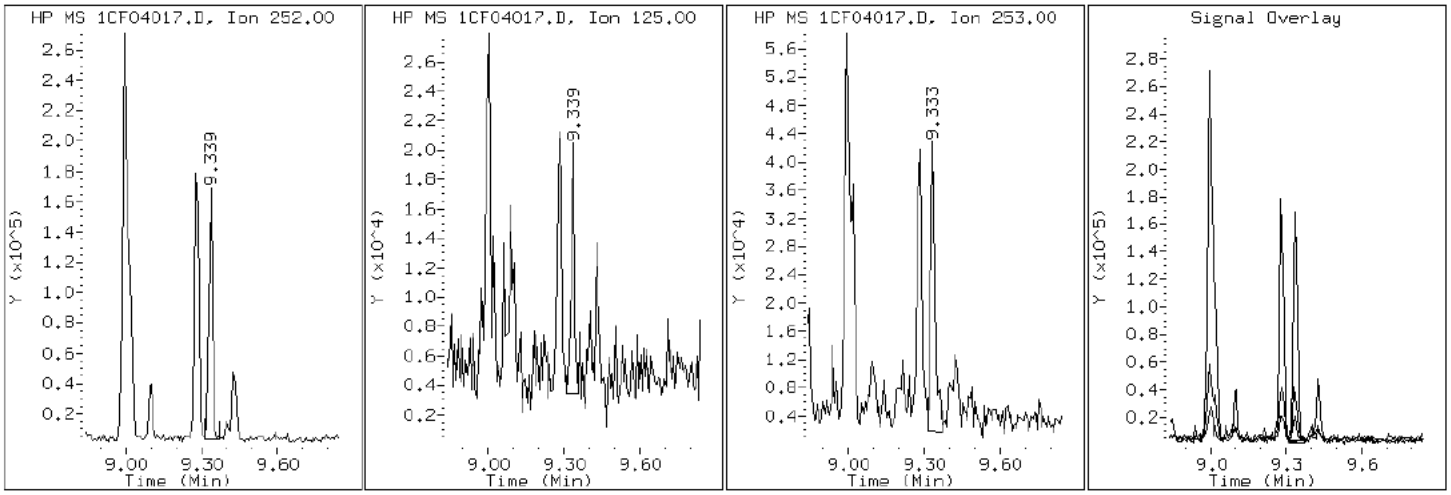
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

22 Benzo(a)pyrene



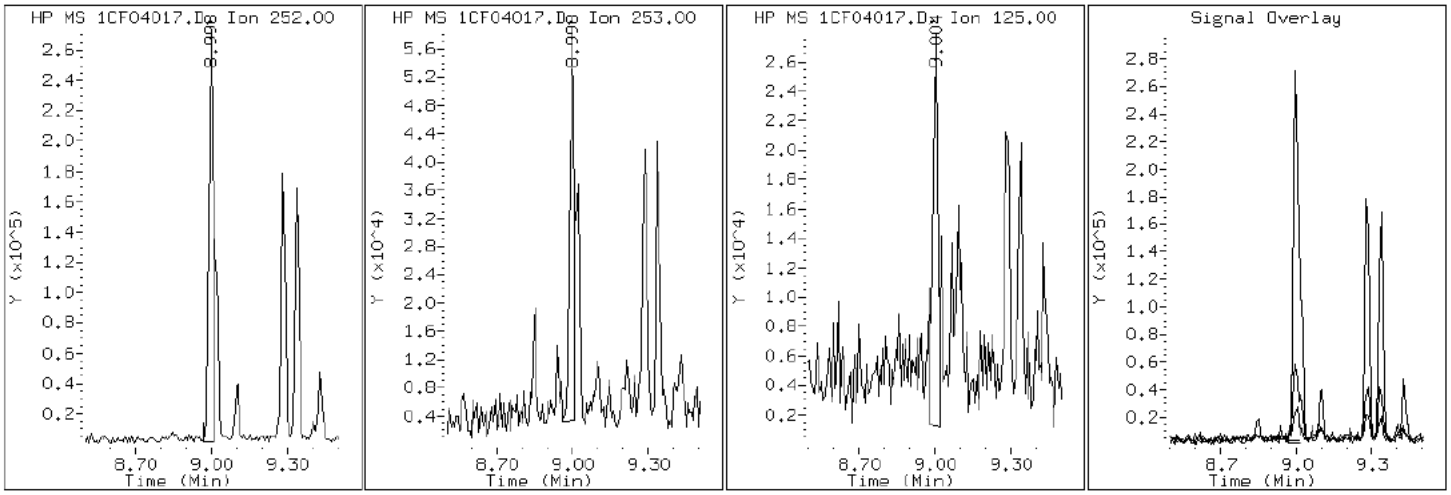
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



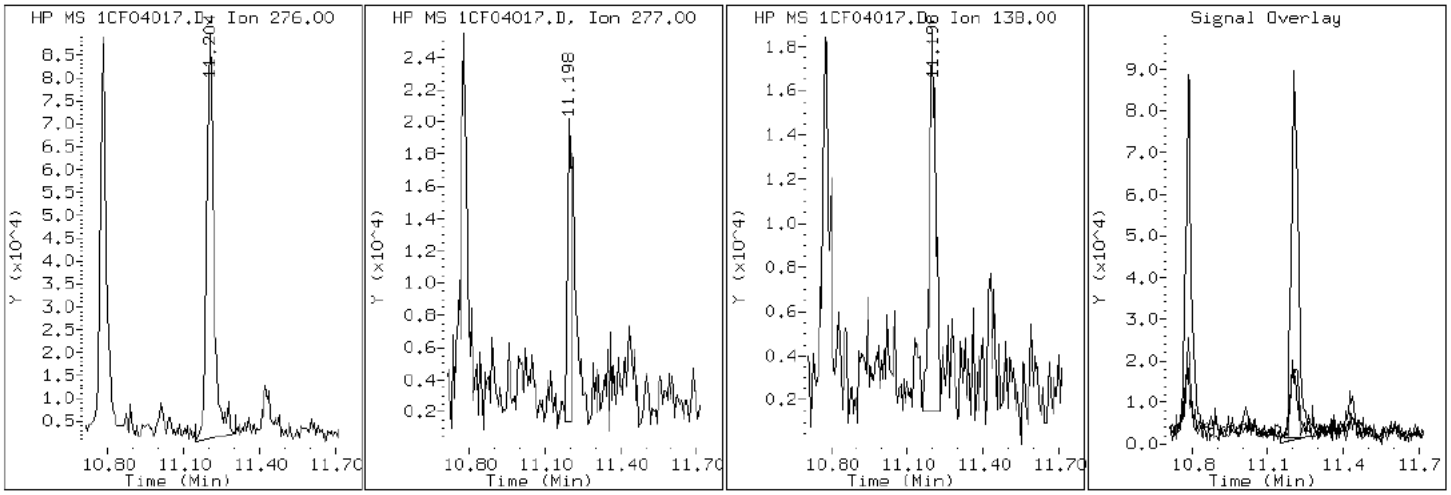
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



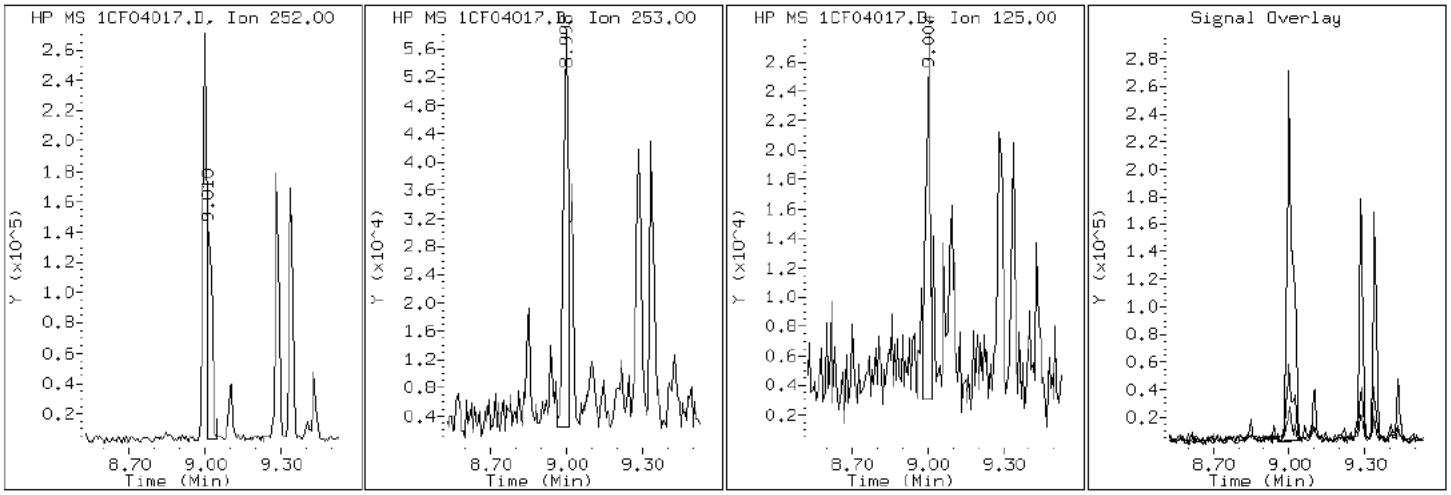
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



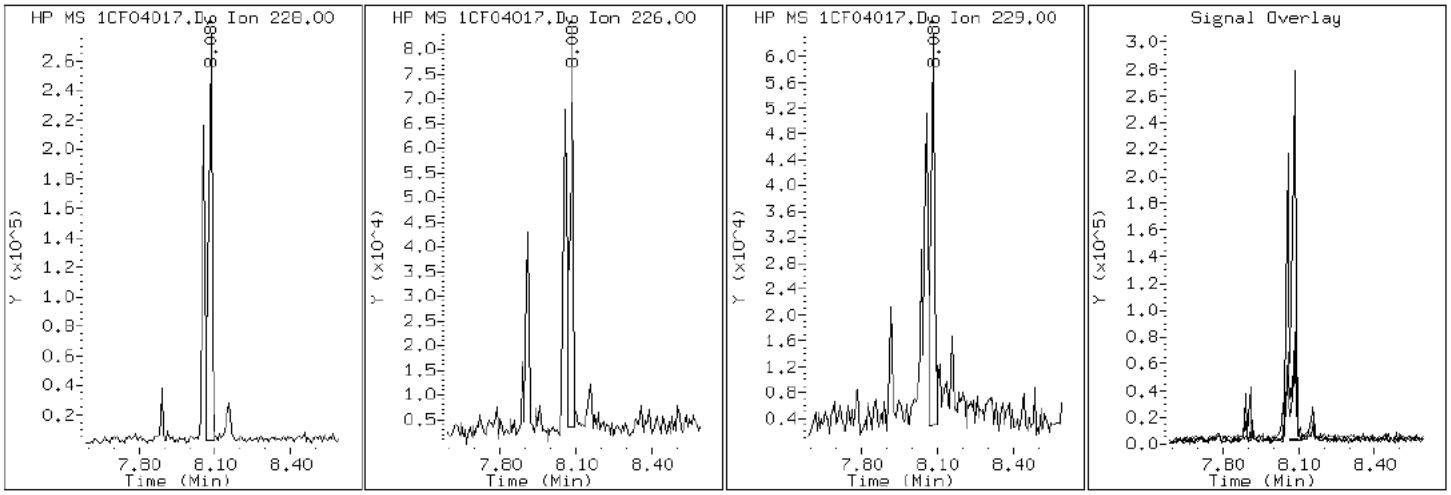
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

19 Chrysene



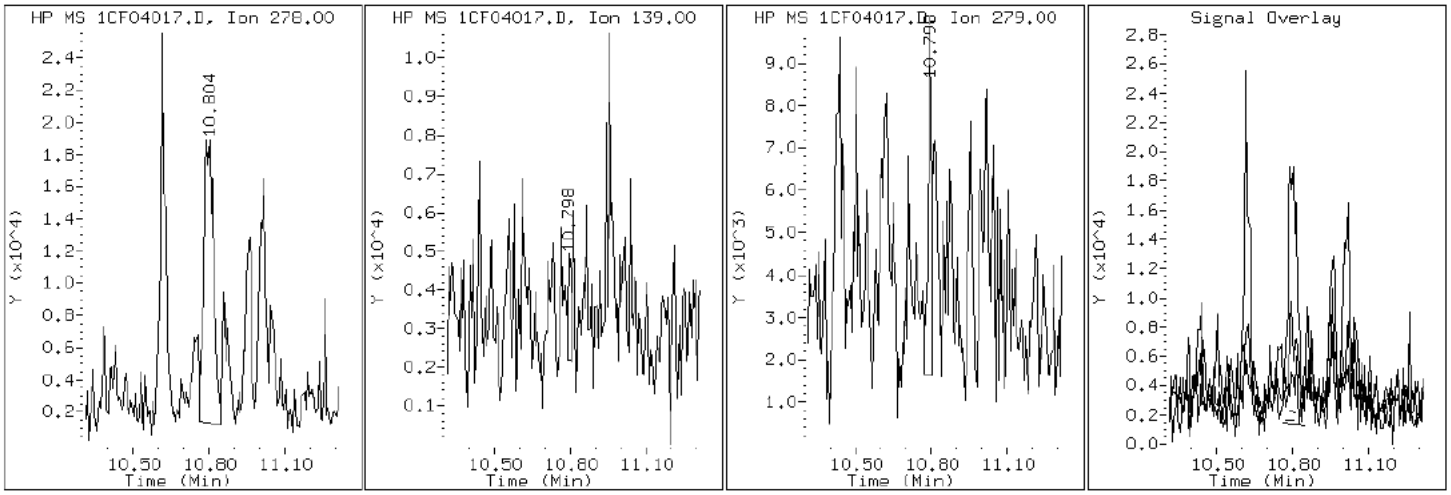
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



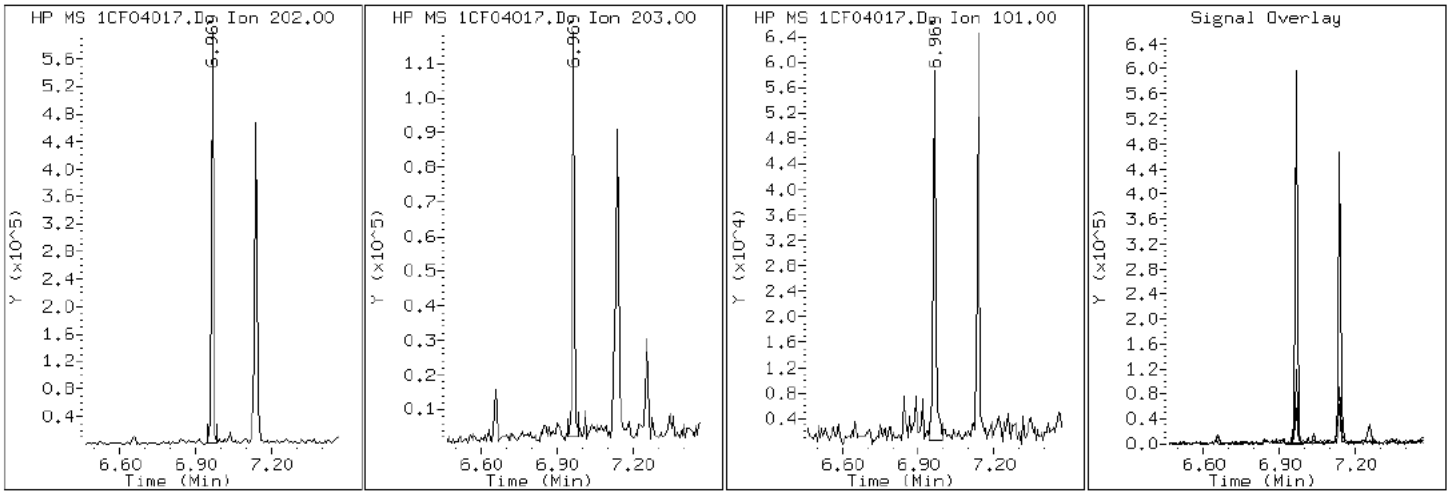
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

15 Fluoranthene



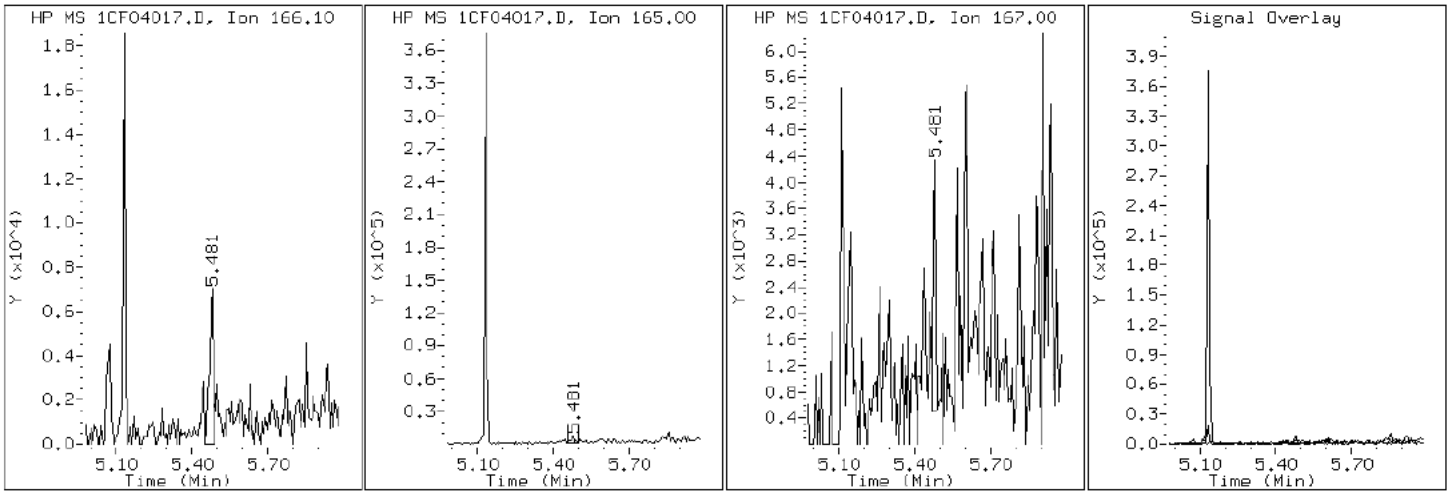
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

9 Fluorene



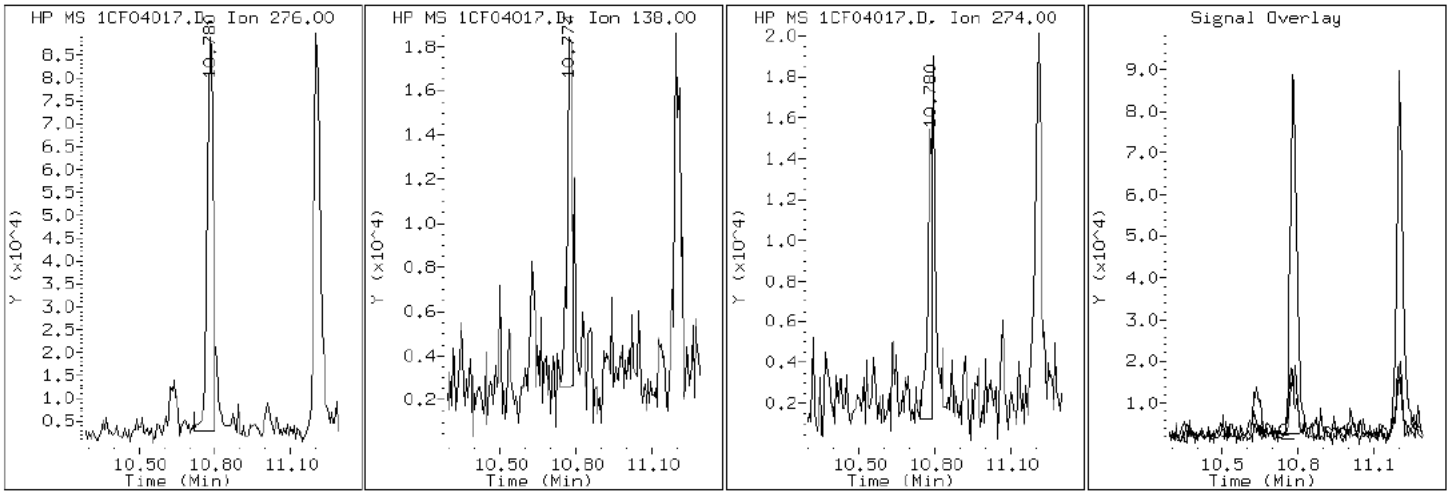
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

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



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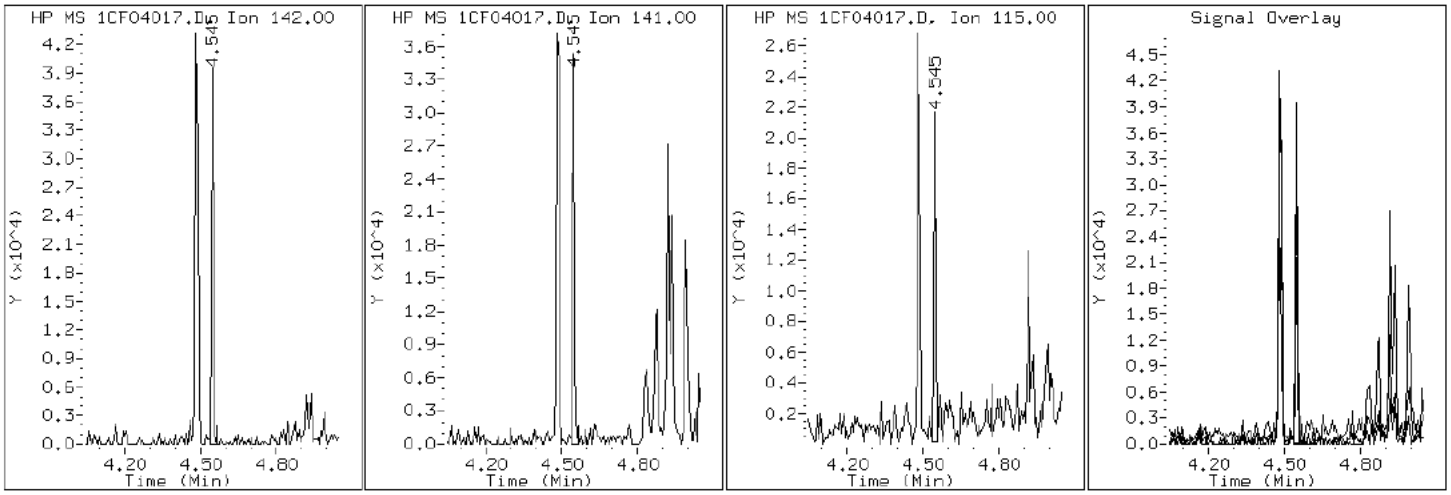
Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

4 1-Methylnaphthalene



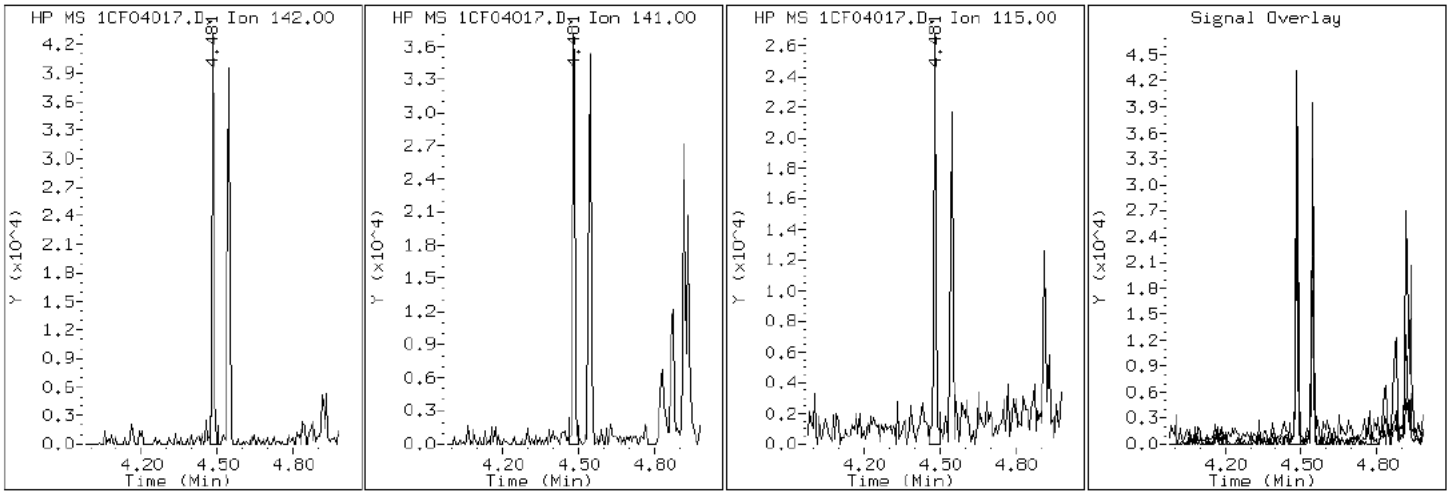
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

3 2-Methylnaphthalene



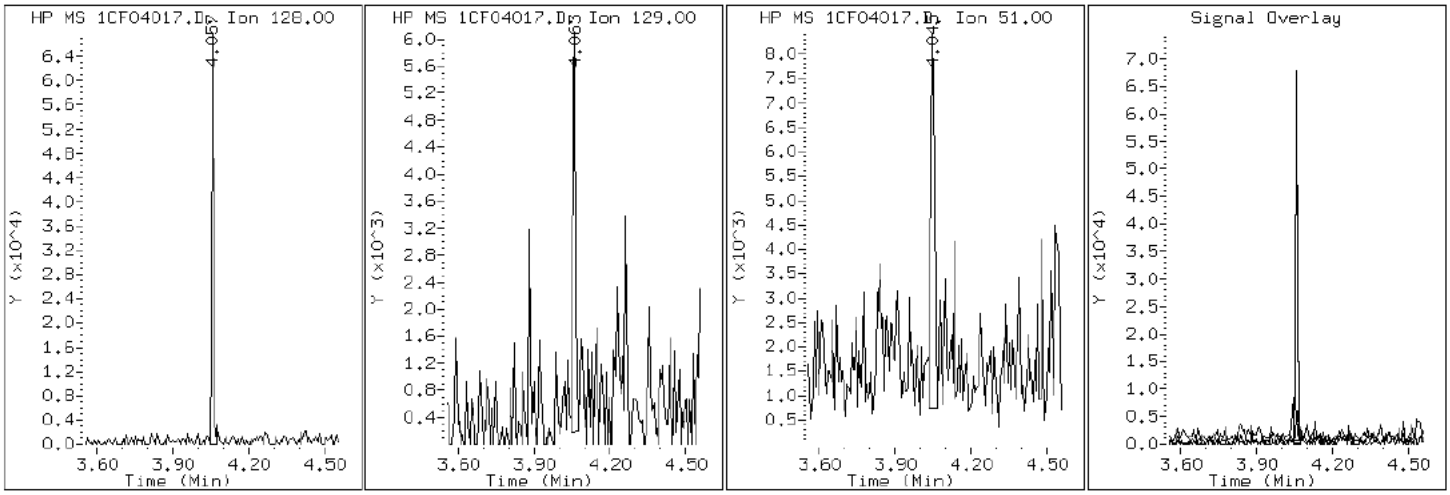
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

2 Naphthalene



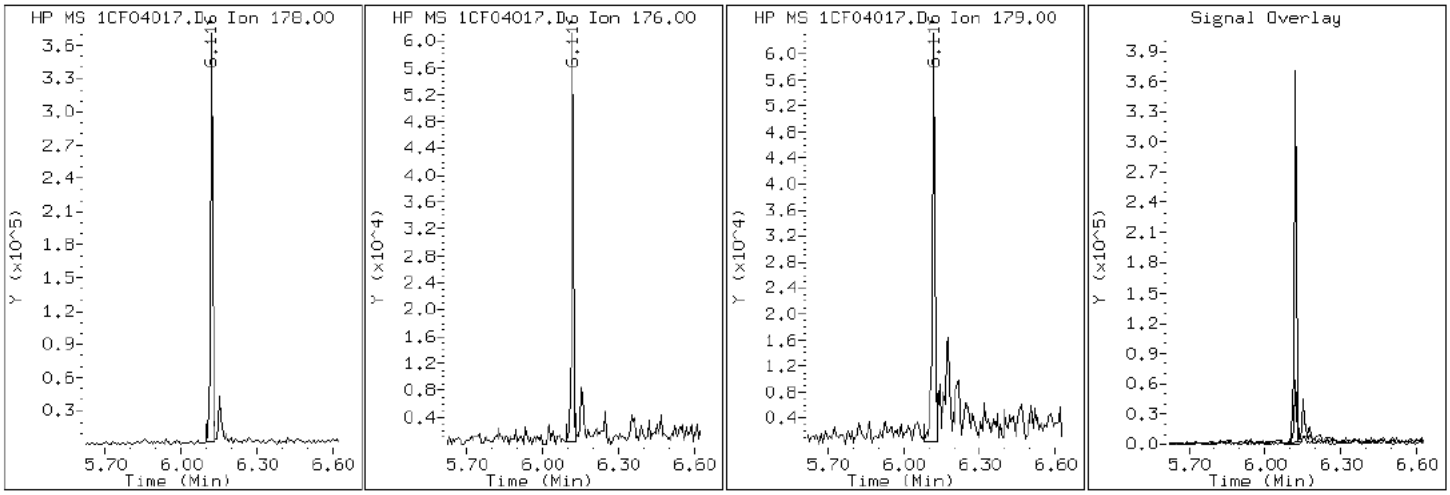
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

11 Phenanthrene



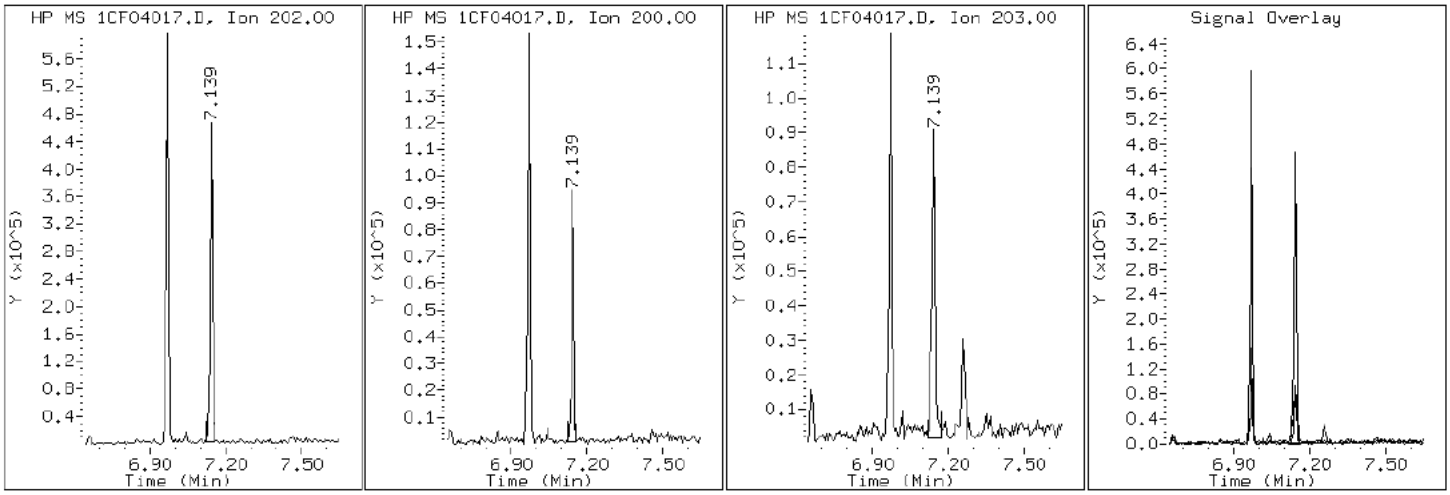
Data File: 1CF04017.D

Date: 04-JUN-2013 15:11

Client ID: CV0978A-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04017.D
Inj. Date and Time: 04-JUN-2013 15:11
Instrument ID: BSMC5973.i
Client ID: CV0978A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

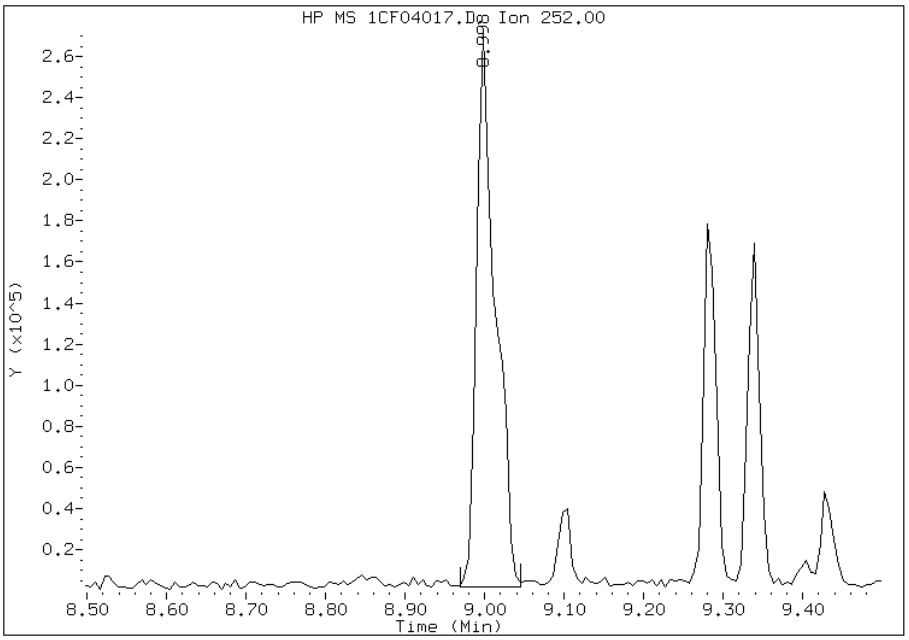
Processing Integration Results

RT: 9.00

Response: 446827

Amount: 6

Conc: 1824



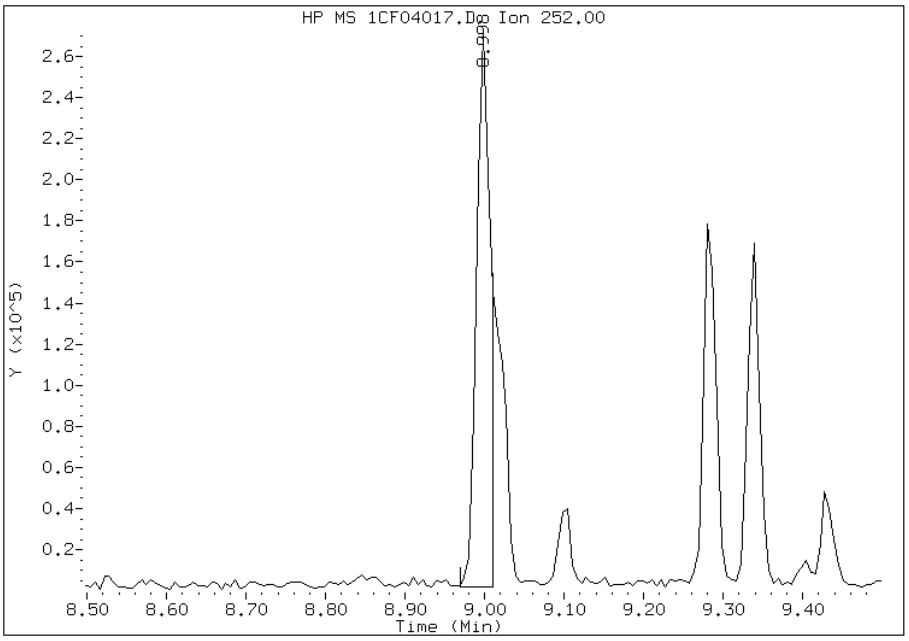
Manual Integration Results

RT: 9.00

Response: 323716

Amount: 4

Conc: 1322



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04017.D
Inj. Date and Time: 04-JUN-2013 15:11
Instrument ID: BSMC5973.i
Client ID: CV0978A-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

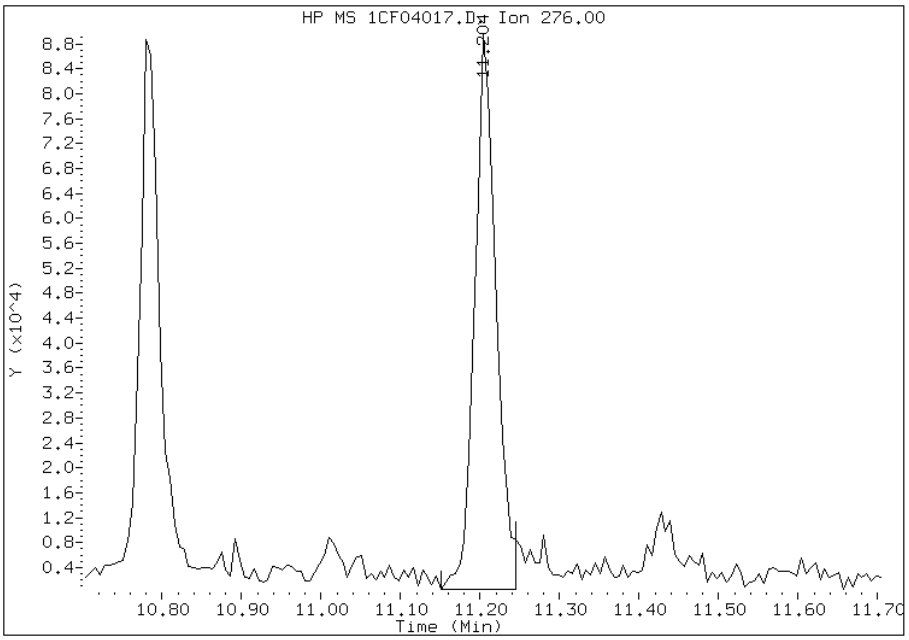
Processing Integration Results

RT: 11.20

Response: 166591

Amount: 2

Conc: 719



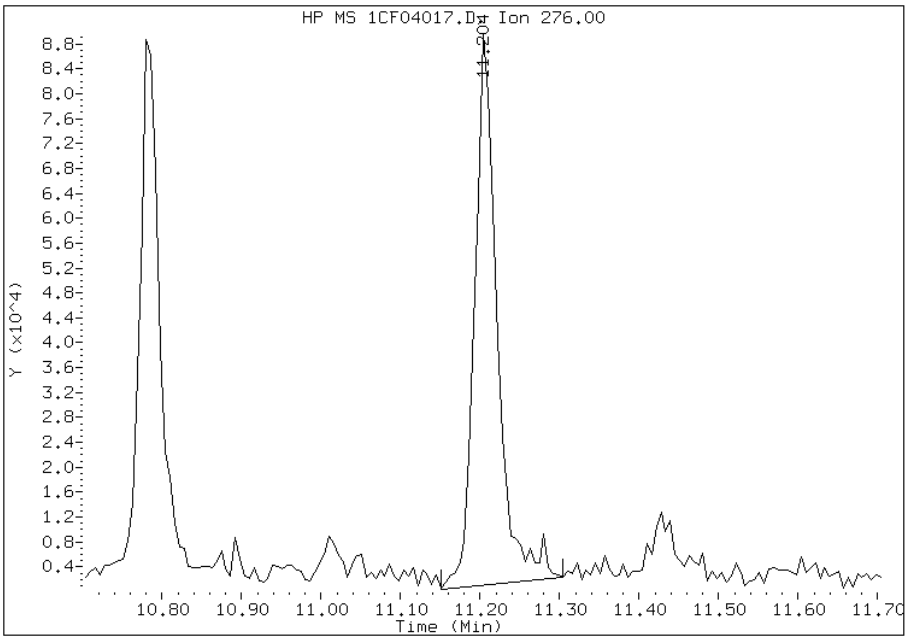
Manual Integration Results

RT: 11.20

Response: 174427

Amount: 2

Conc: 753



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04017.D
Inj. Date and Time: 04-JUN-2013 15:11
Instrument ID: BSMC5973.i
Client ID: CV0978A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

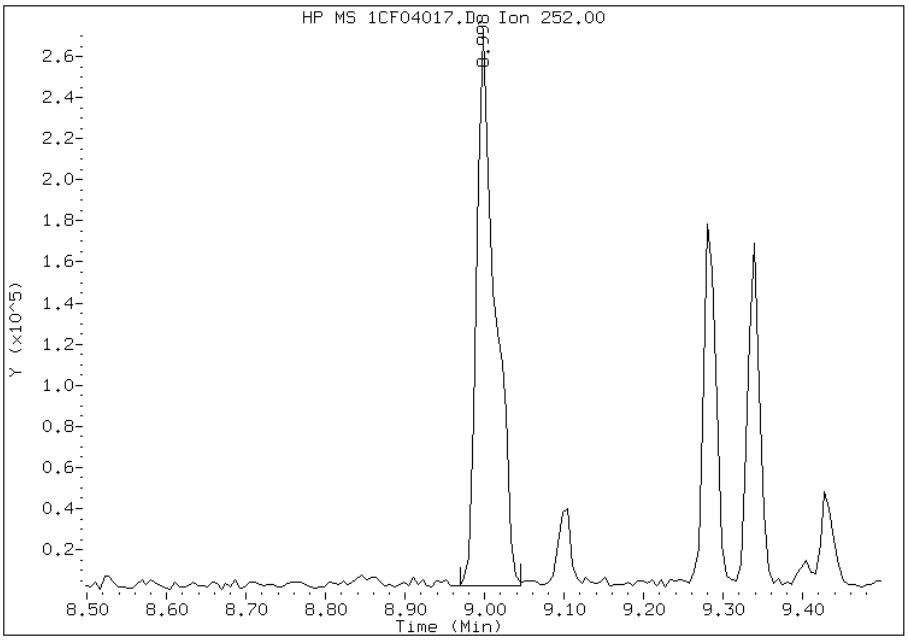
Processing Integration Results

RT: 9.00

Response: 444776

Amount: 5

Conc: 1626



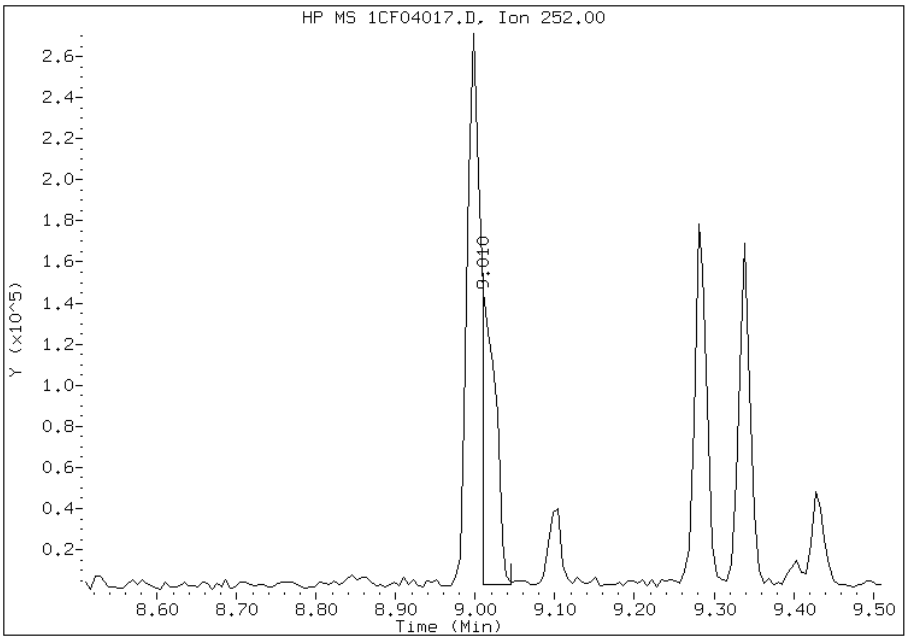
Manual Integration Results

RT: 9.01

Response: 170412

Amount: 2

Conc: 623



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04017.D
Inj. Date and Time: 04-JUN-2013 15:11
Instrument ID: BSMC5973.i
Client ID: CV0978A-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

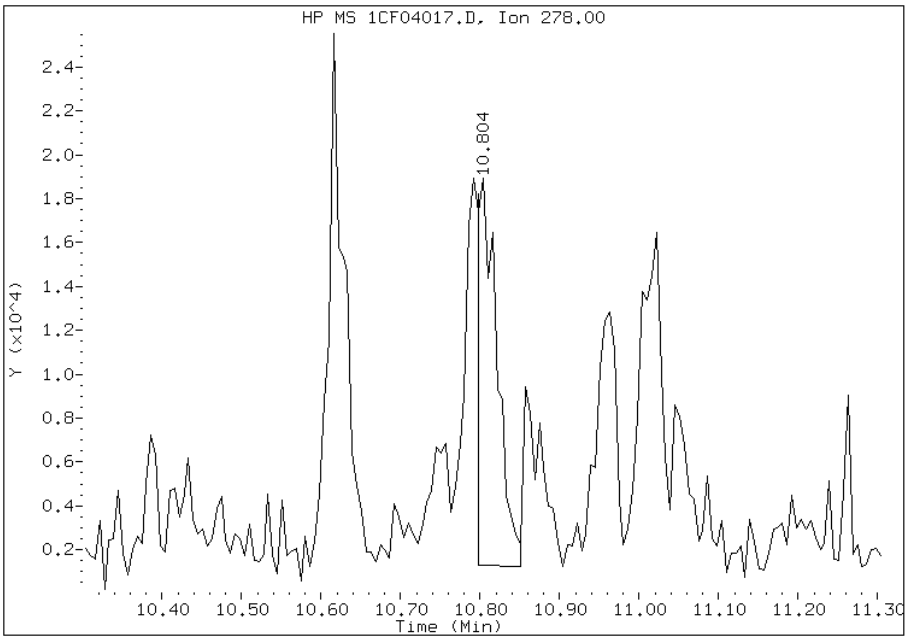
Processing Integration Results

RT: 10.80

Response: 30220

Amount: 0

Conc: 142



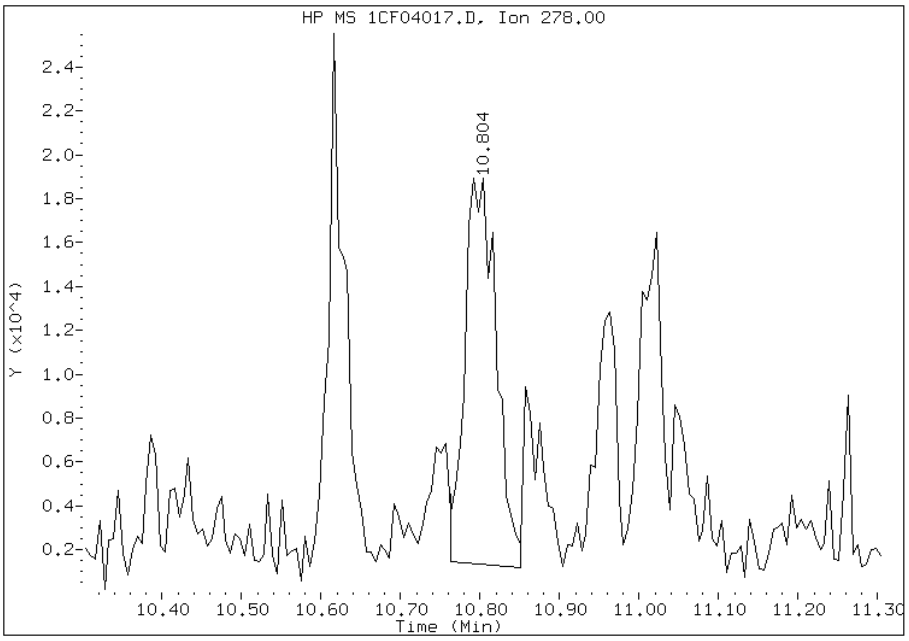
Manual Integration Results

RT: 10.80

Response: 48451

Amount: 1

Conc: 228



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04017.D
Inj. Date and Time: 04-JUN-2013 15:11
Instrument ID: BSMC5973.i
Client ID: CV0978A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

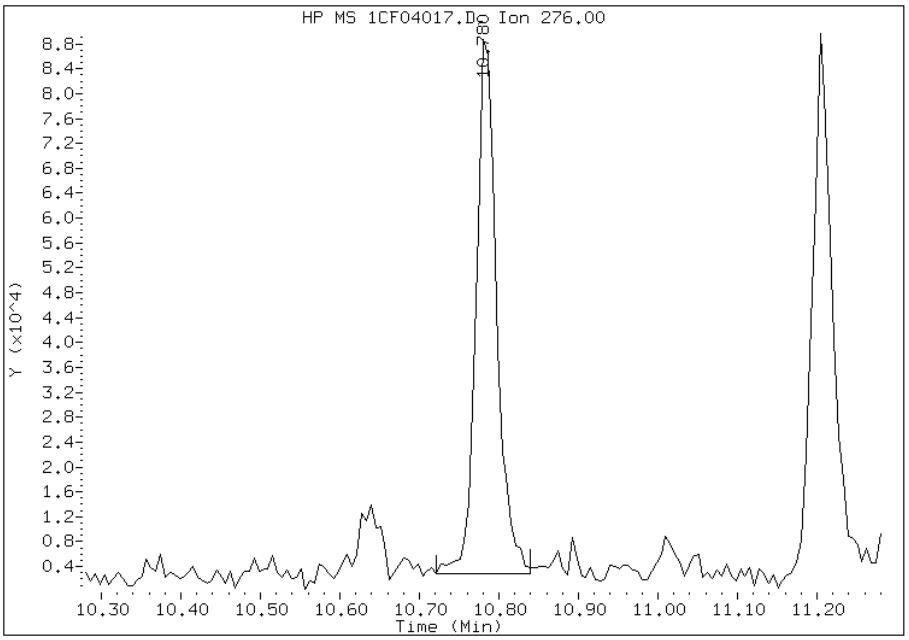
Processing Integration Results

RT: 10.78

Response: 154877

Amount: 2

Conc: 633



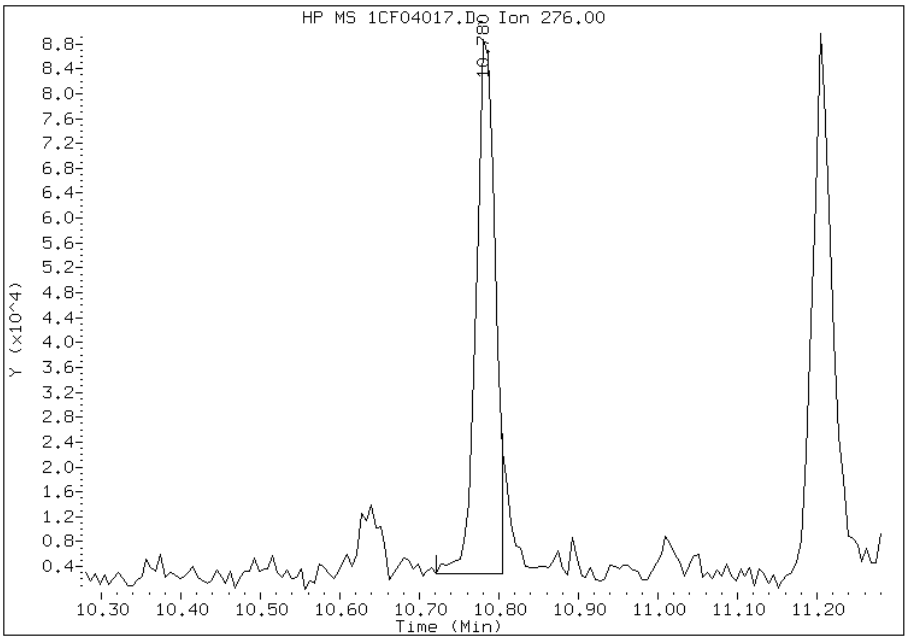
Manual Integration Results

RT: 10.78

Response: 142562

Amount: 2

Conc: 587



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978B-CS | Lab Sample ID: 680-90723-11

Matrix: Solid | Lab File ID: 1CF04018.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:00

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

Sample wt/vol: 15.07(g) | Date Analyzed: 06/04/2013 15:29

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

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

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	67	J	200	25
120-12-7	Anthracene	190		42	21
56-55-3	Benzo[a]anthracene	1100		40	19
50-32-8	Benzo[a]pyrene	1000		52	26
205-99-2	Benzo[b]fluoranthene	1900		61	30
191-24-2	Benzo[g,h,i]perylene	820		100	22
207-08-9	Benzo[k]fluoranthene	610		40	18
218-01-9	Chrysene	1300		45	22
53-70-3	Dibenz(a,h)anthracene	240		100	20
206-44-0	Fluoranthene	2400		100	20
86-73-7	Fluorene	52	J	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	630		100	35
90-12-0	1-Methylnaphthalene	82	J	200	22
91-57-6	2-Methylnaphthalene	130	J	200	35
91-20-3	Naphthalene	77	J	200	22
85-01-8	Phenanthrene	900	B	40	19
129-00-0	Pyrene	2100		100	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04018.D
Lab Smp Id: 680-90723-A-11-A Client Smp ID: CV0978B-CS
Inj Date : 04-JUN-2013 15:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-11-a
Misc Info : 680-90723-A-11-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	20.264	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2538682	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1739163	40.0000	
*	10 Phenanthrene-d10	188	6.103	6.104	(1.000)	3084360	40.0000	
$	14 o-Terphenyl	230	6.350	6.351	(1.040)	101551	2.11360	703.5852
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3148924	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3141823	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	16652	0.23244	77.3743
	3 2-Methylnaphthalene	142	4.486	4.480	(1.109)	15138	0.38095	126.8132
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	9602	0.24560	81.7561
	5 Acenaphthylene	152	5.045	5.045	(0.983)	13476	0.20212	67.2839
	7 Acenaphthene	154	5.151	5.151	(1.003)	6402	0.15312	50.9719
	9 Fluorene	166	5.480	5.480	(1.068)	8397	0.15740	52.3966
	11 Phenanthrene	178	6.115	6.121	(1.002)	247323	2.71411	903.4850
	12 Anthracene	178	6.151	6.157	(1.008)	48553	0.57513	191.4504

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.256	6.257	(1.025)	40518	0.62871	209.2886
15 Fluoranthene	202	6.968	6.968	(1.142)	658671	7.07167	2354.0521
16 Pyrene	202	7.139	7.145	(0.885)	530170	6.23504	2075.5497
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	290874	3.34993	1115.1397
19 Chrysene	228	8.086	8.092	(1.003)	347876	3.97927	1324.6380
20 Benzo(b)fluoranthene	252	8.997	9.004	(0.957)	429804	5.56791	1853.4741(M)
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	157610	1.82808	608.5385(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	240669	3.14936	1048.3726
24 Indeno(1,2,3-cd)pyrene	276	10.785	10.792	(1.147)	146508	1.90196	633.1336(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	47466	0.70782	235.6233
26 Benzo(g,h,i)perylene	276	11.209	11.215	(1.192)	179118	2.45403	816.9082(M)

QC Flag Legend

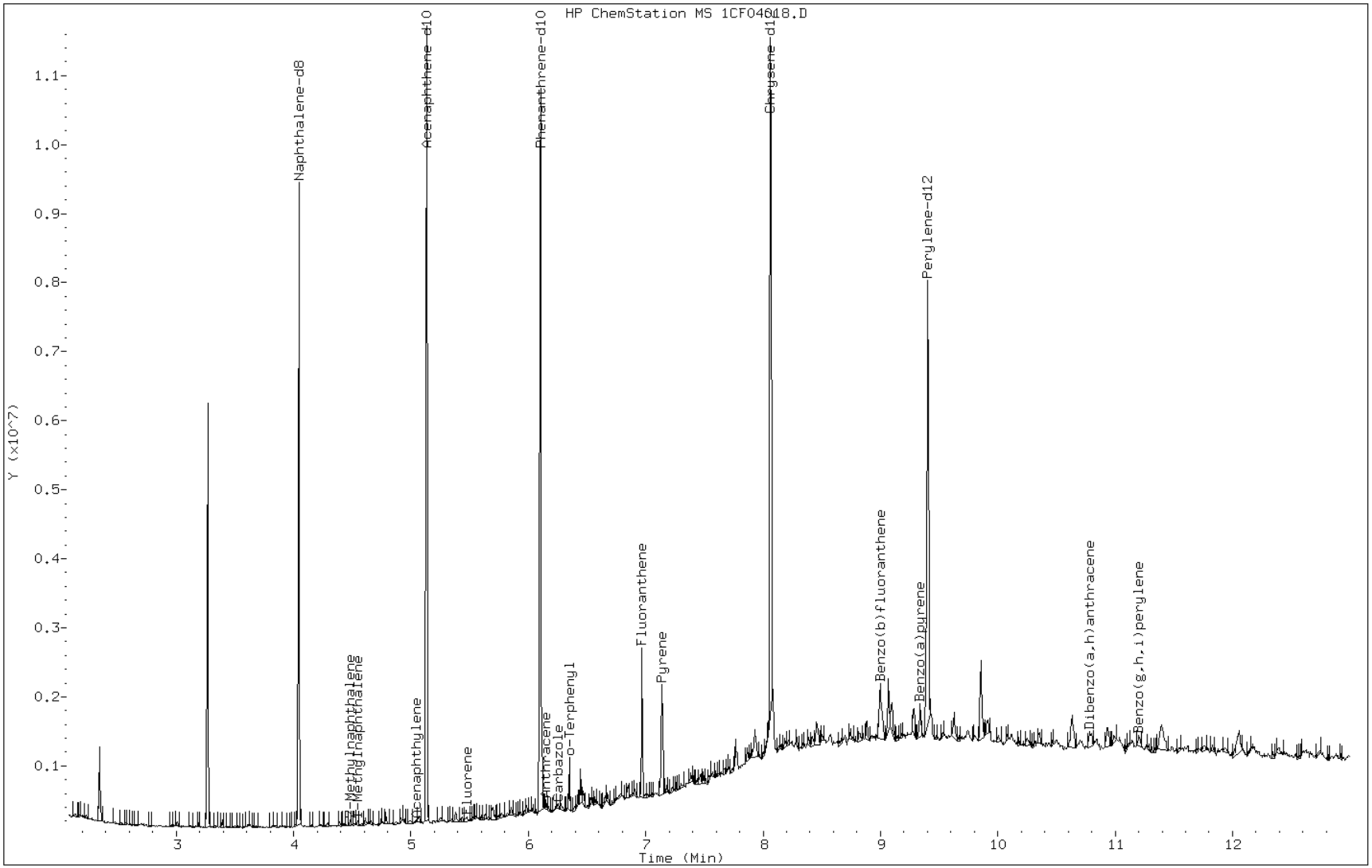
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC



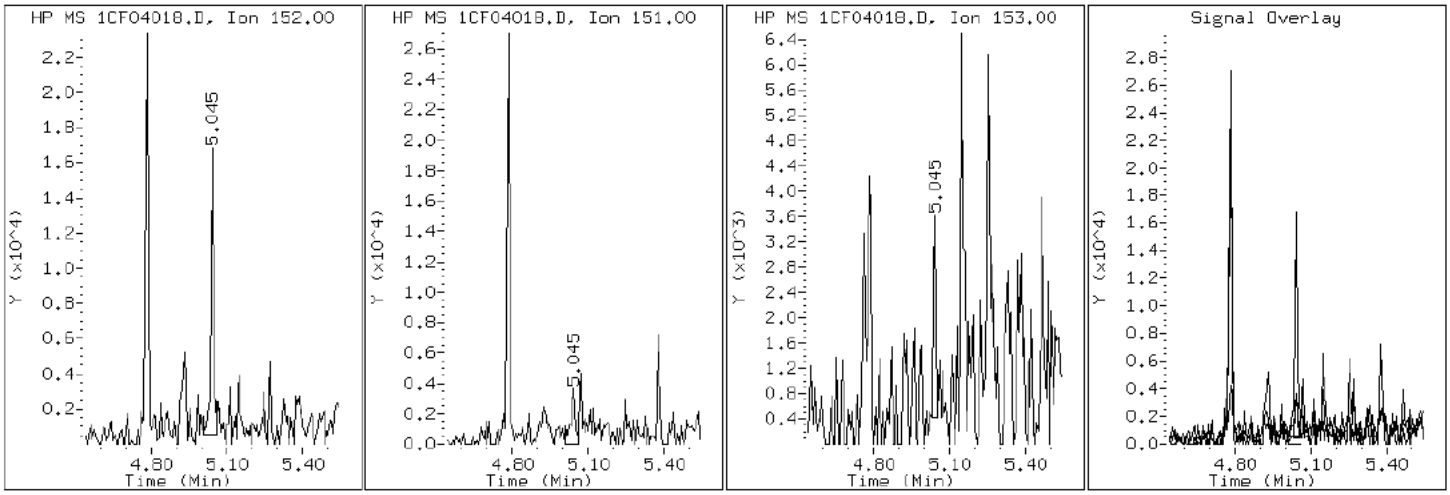
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

5 Acenaphthylene



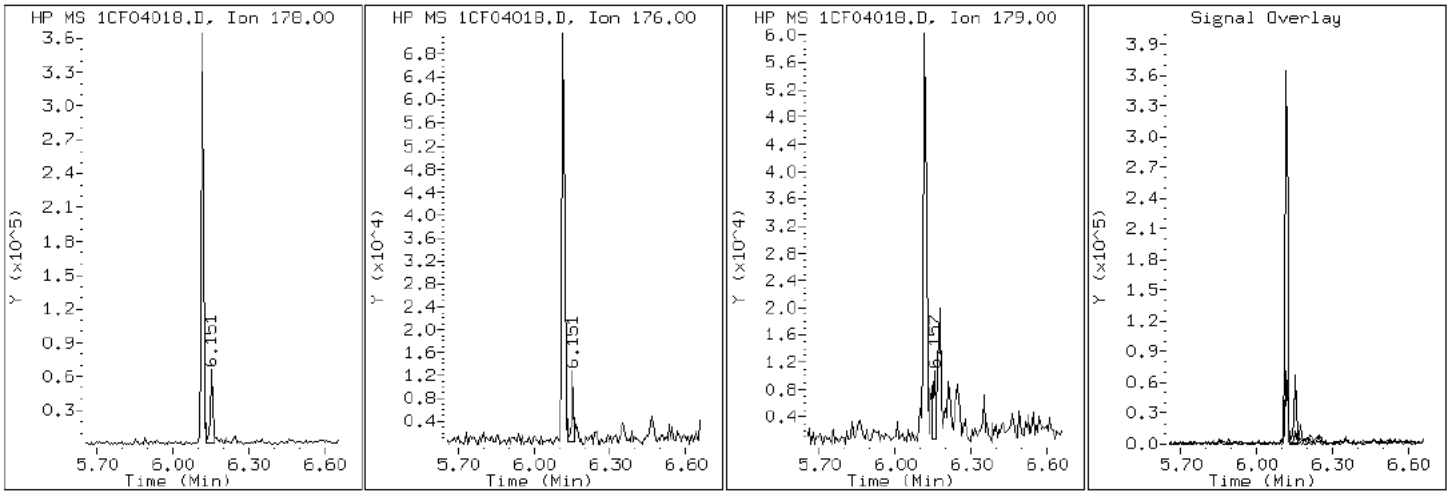
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

12 Anthracene



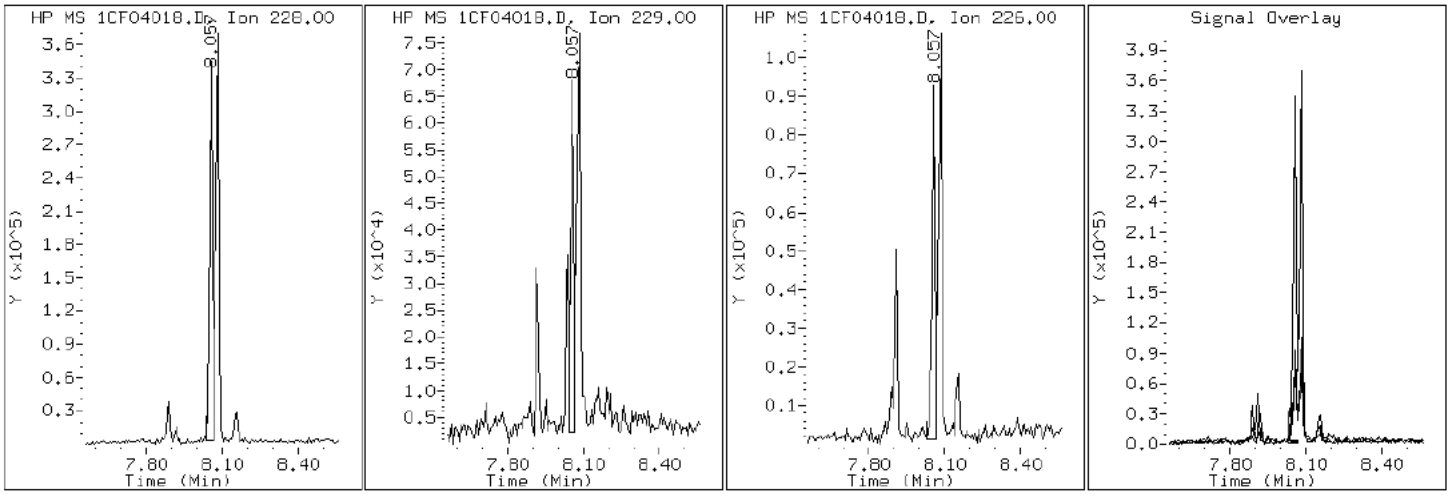
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

17 Benzo(a)anthracene



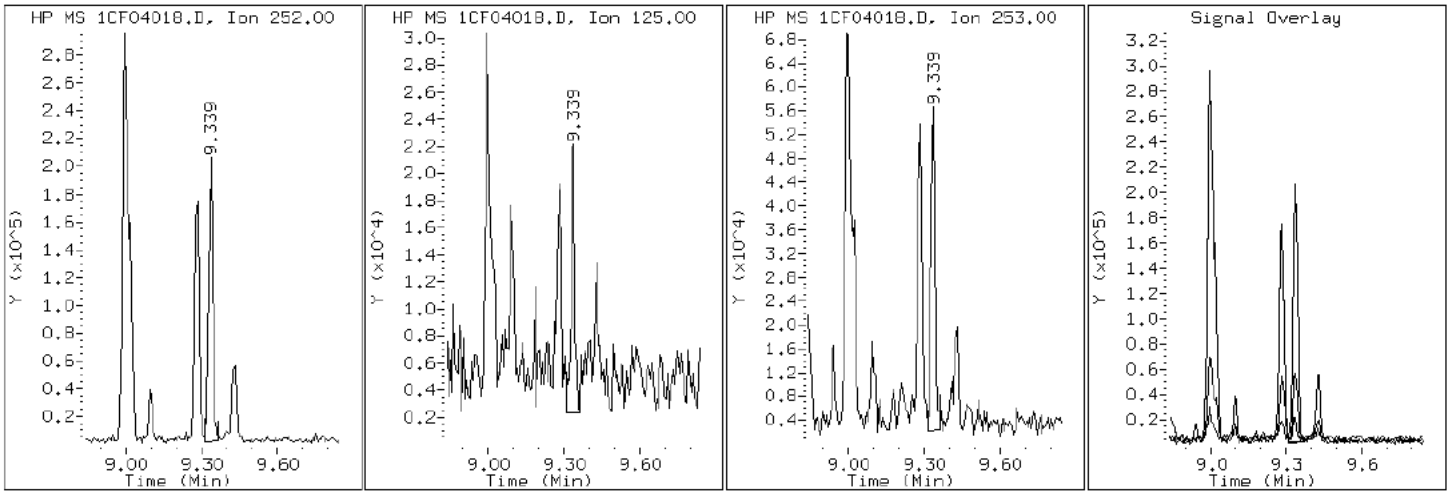
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

22 Benzo(a)pyrene



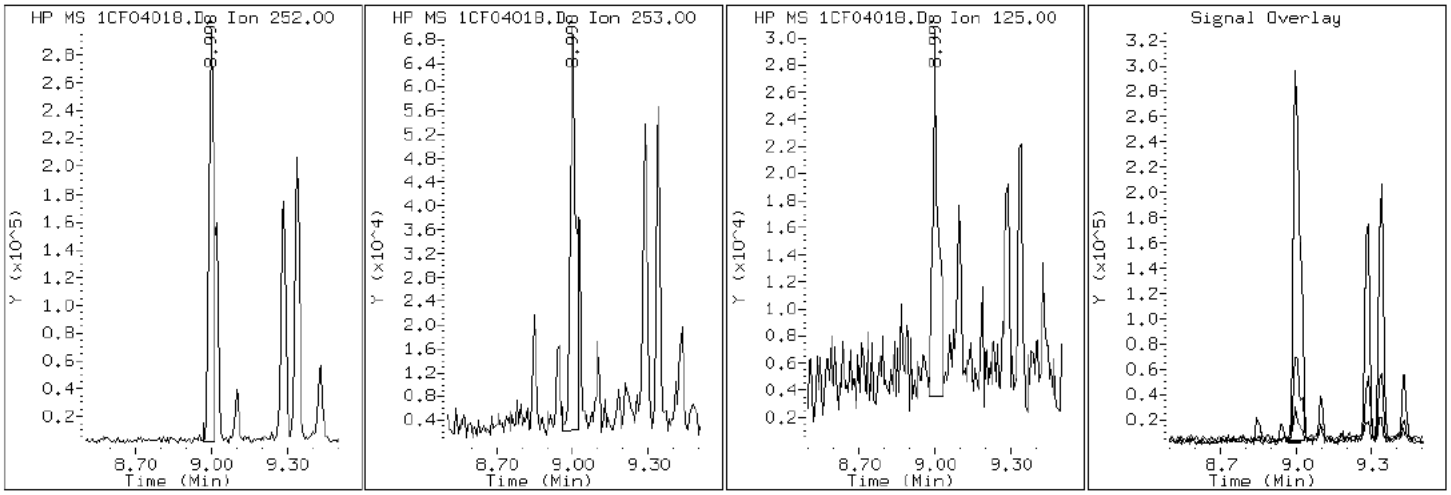
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



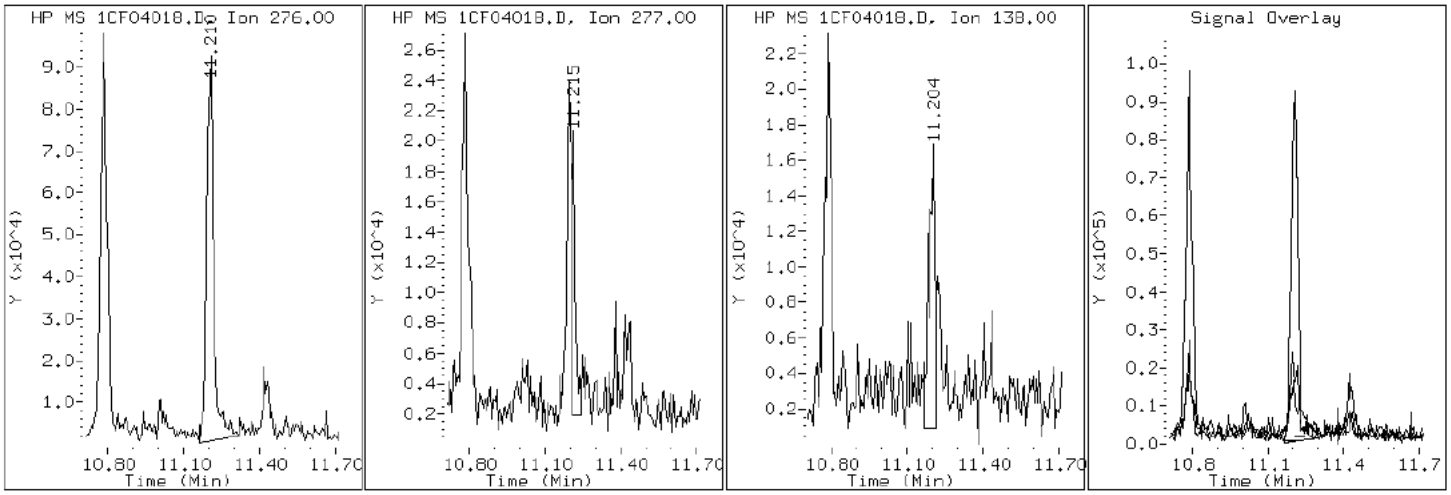
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



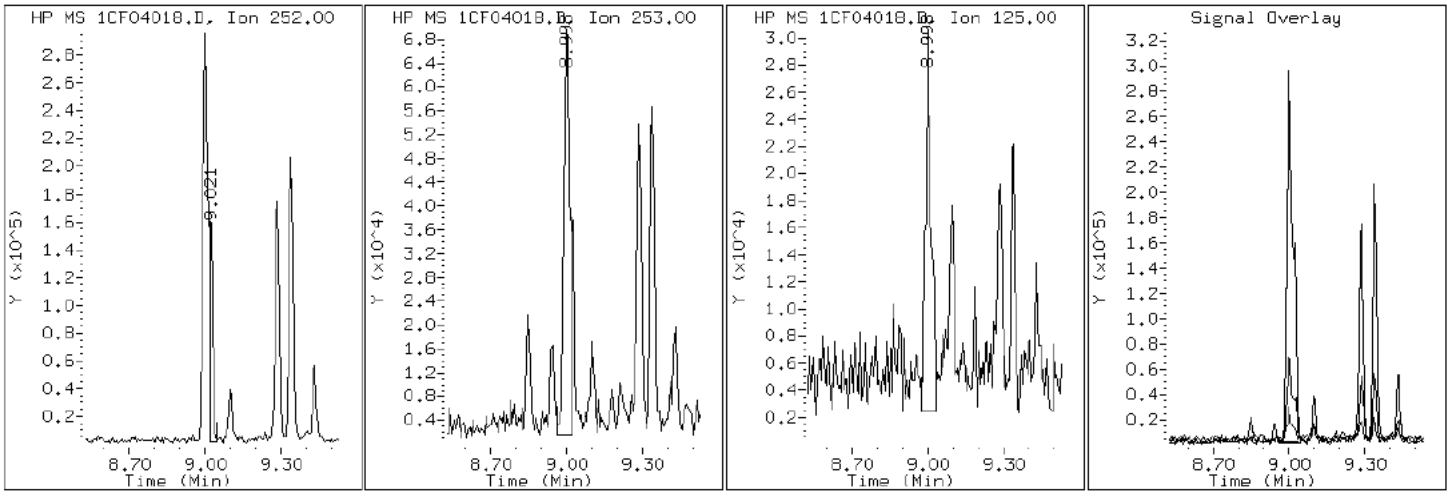
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



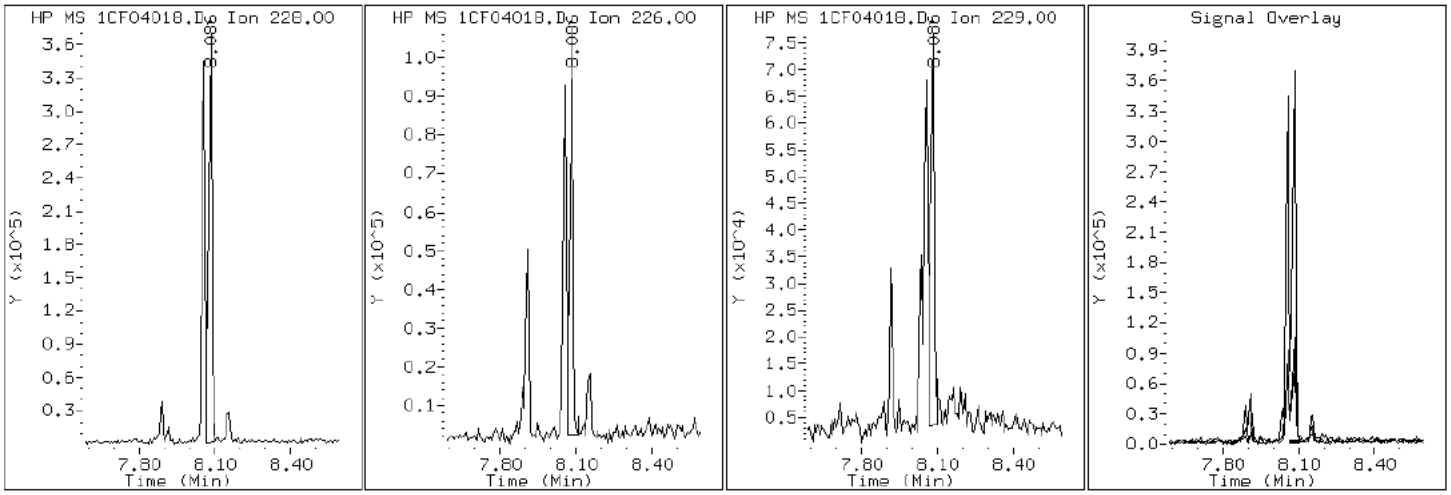
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

19 Chrysene



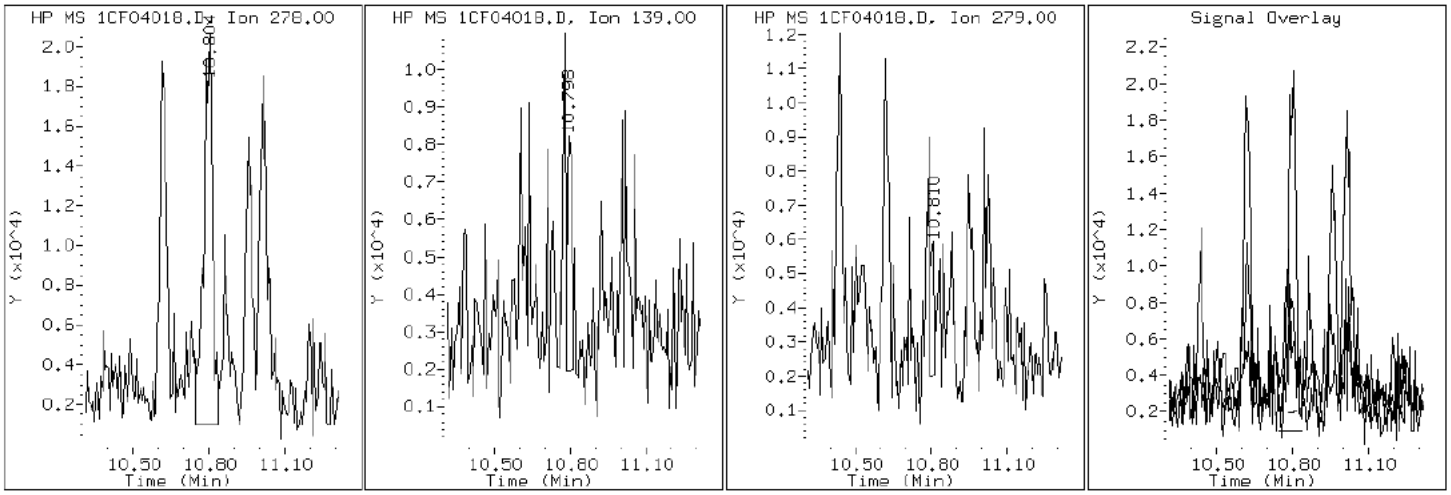
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



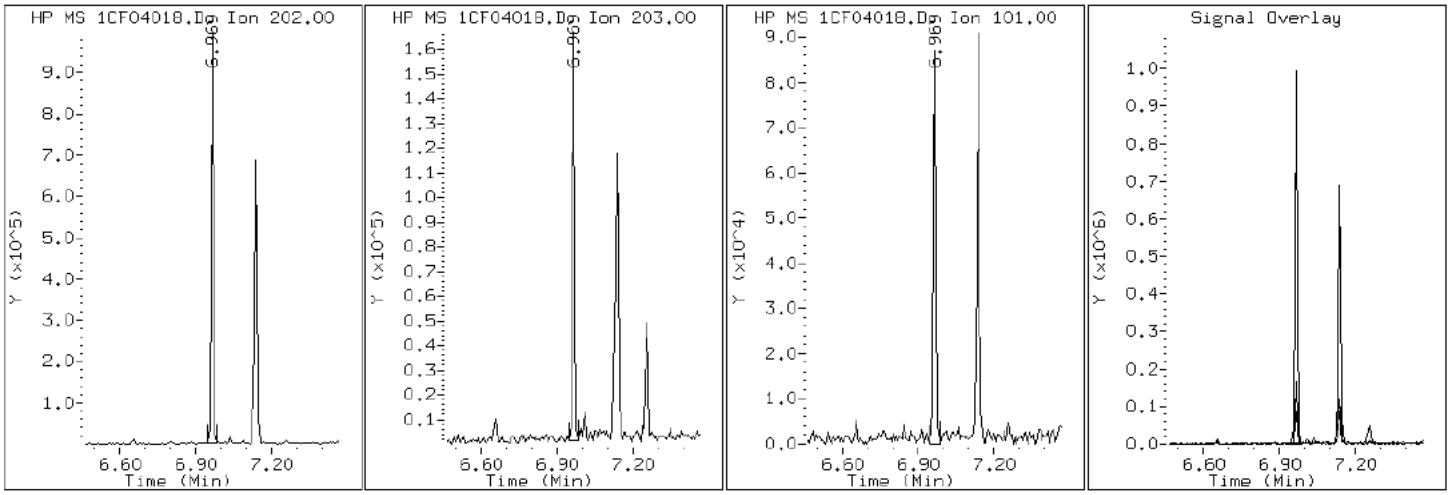
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

15 Fluoranthene



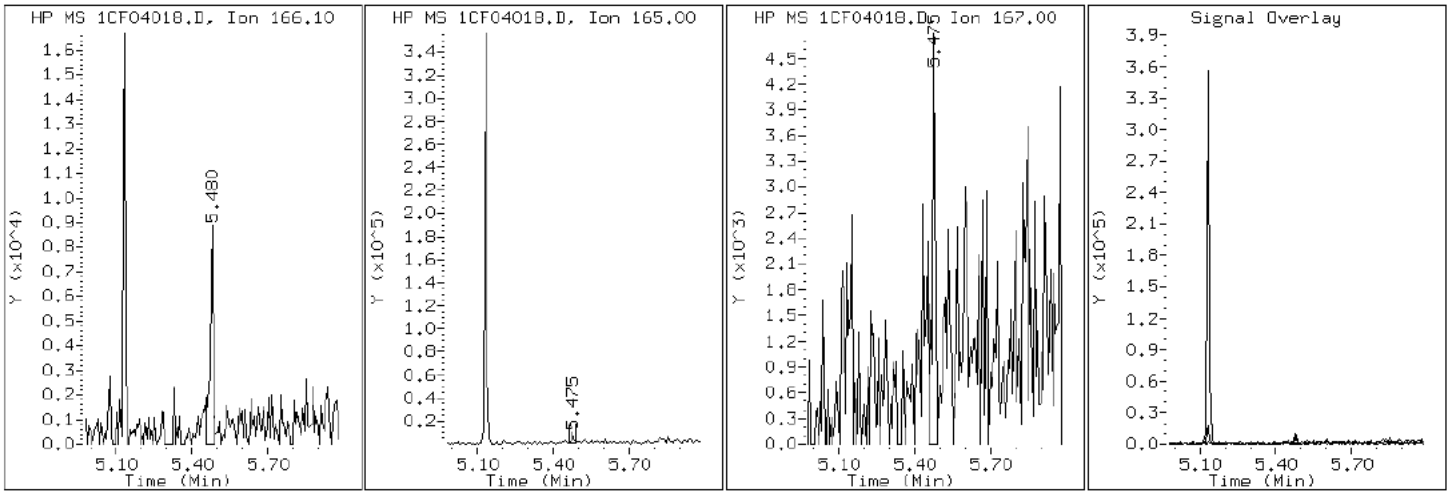
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

9 Fluorene



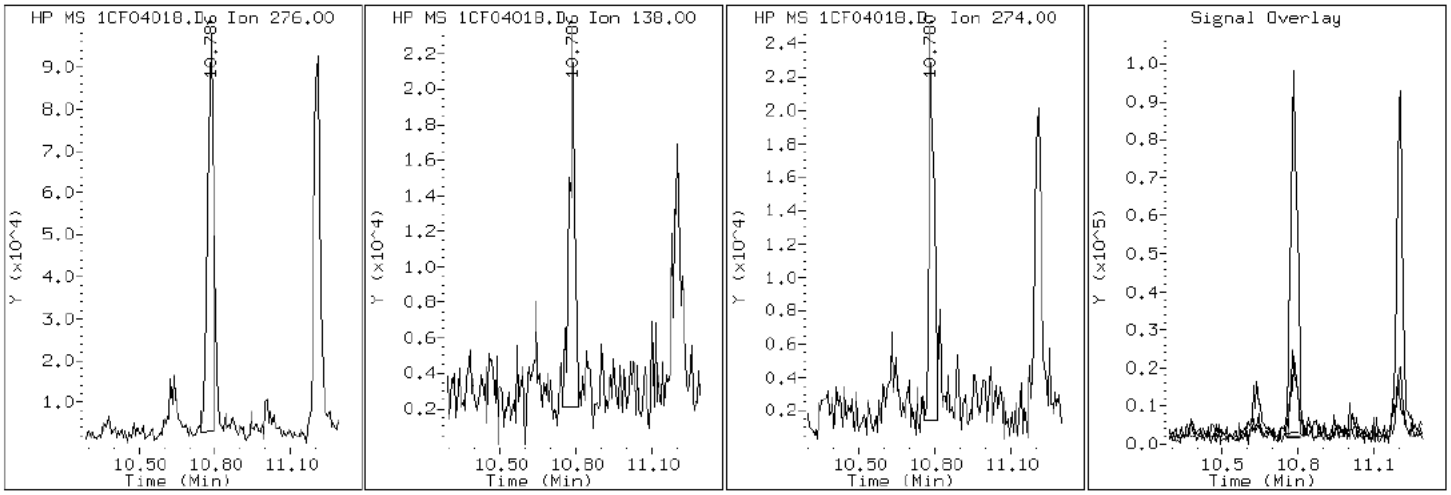
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

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



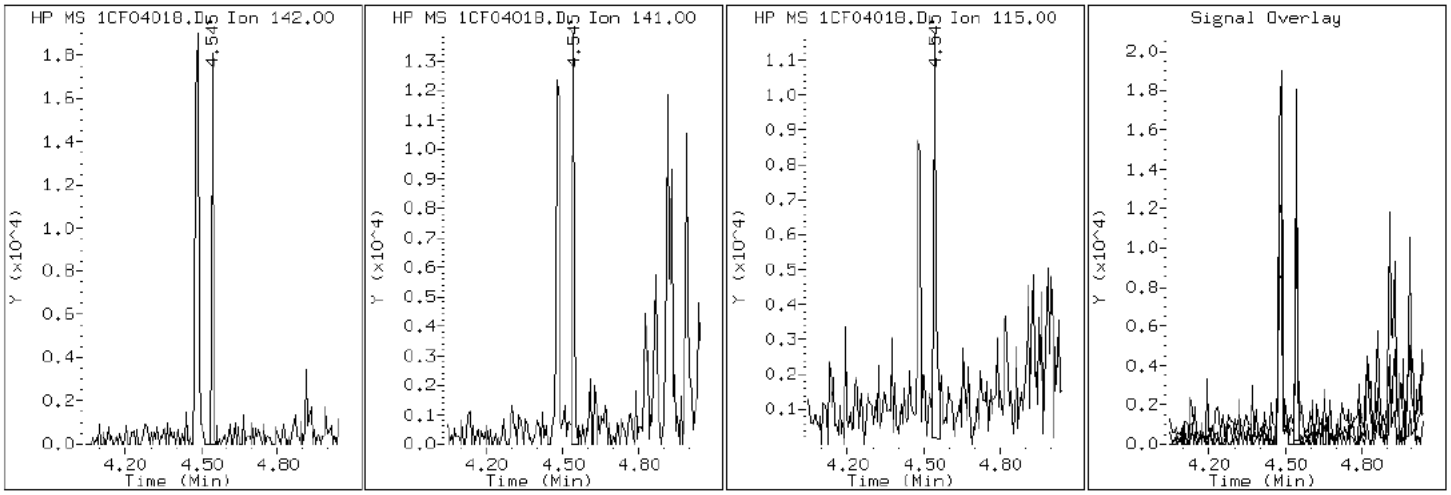
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

4 1-Methylnaphthalene



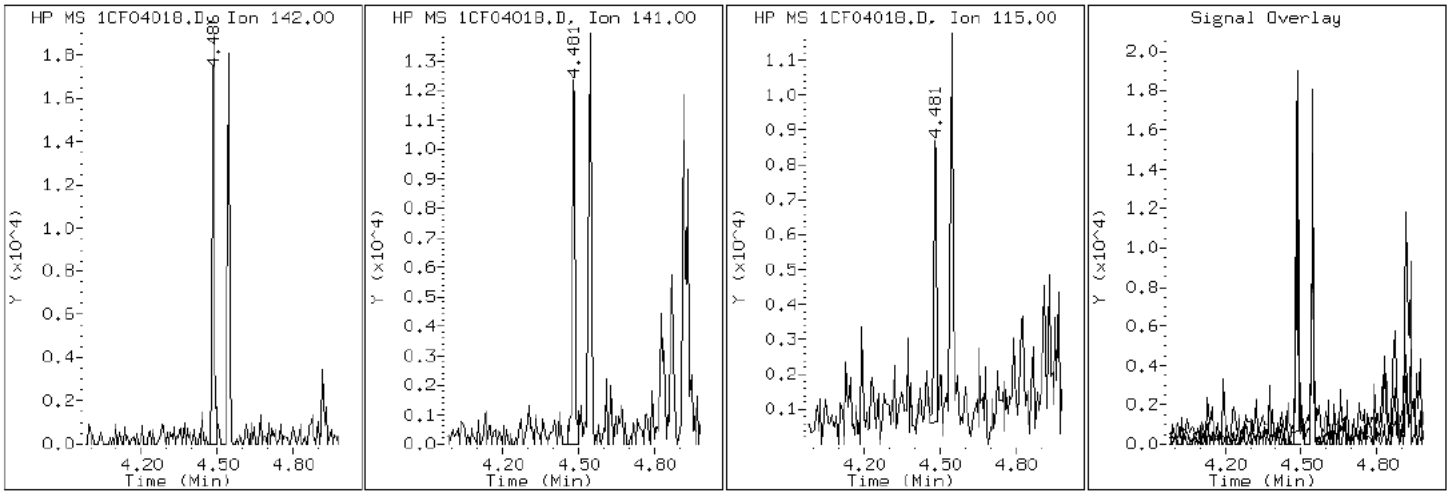
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

3 2-Methylnaphthalene



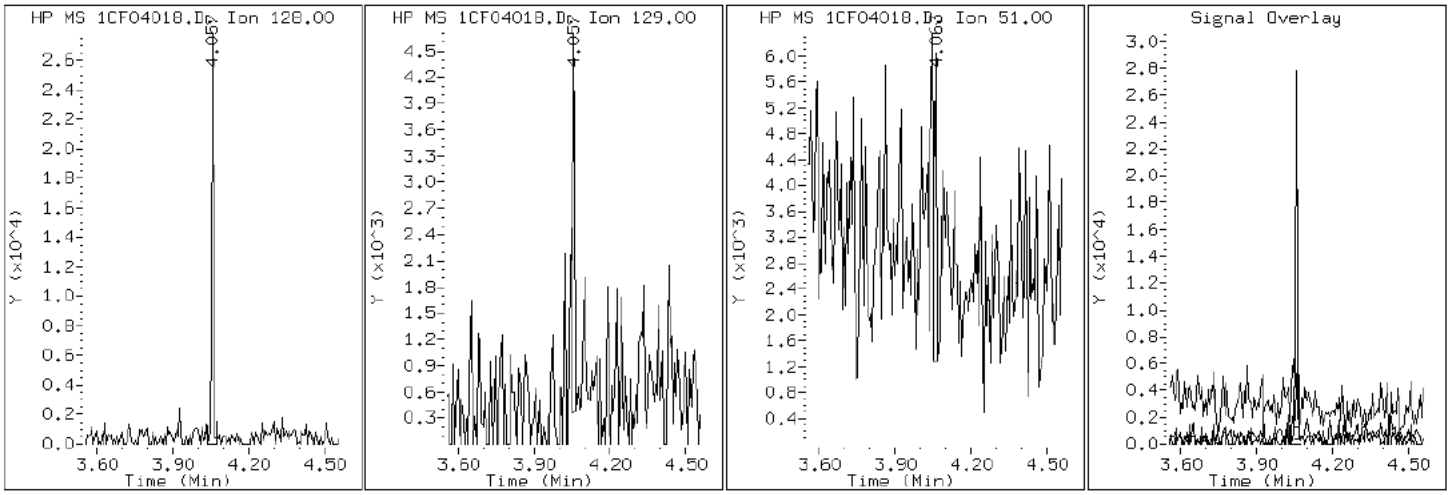
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

2 Naphthalene



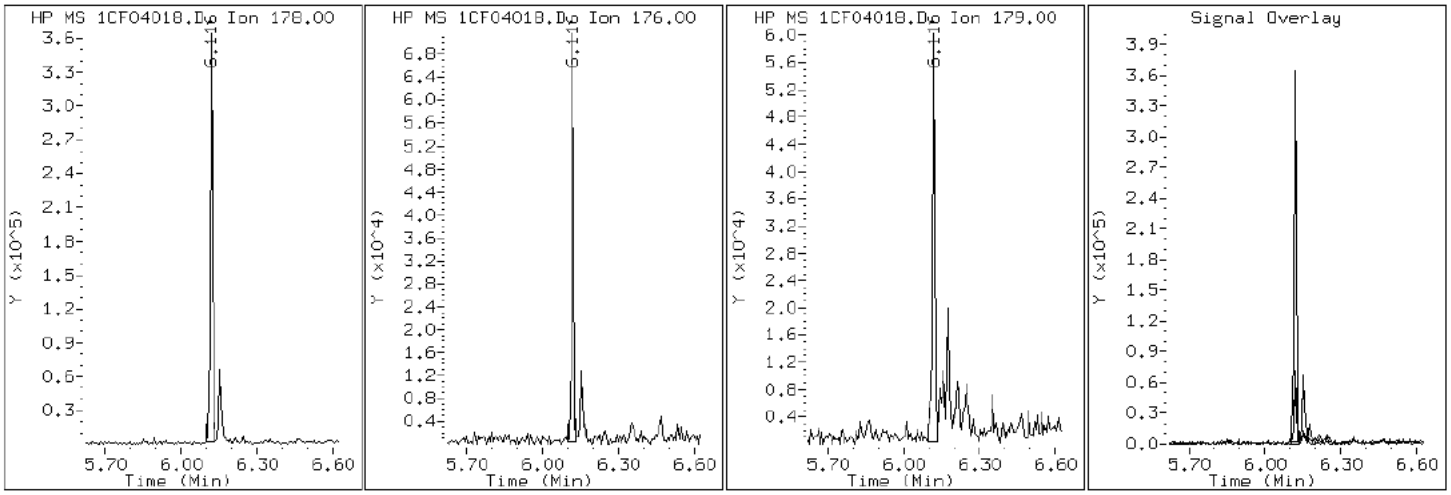
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

11 Phenanthrene



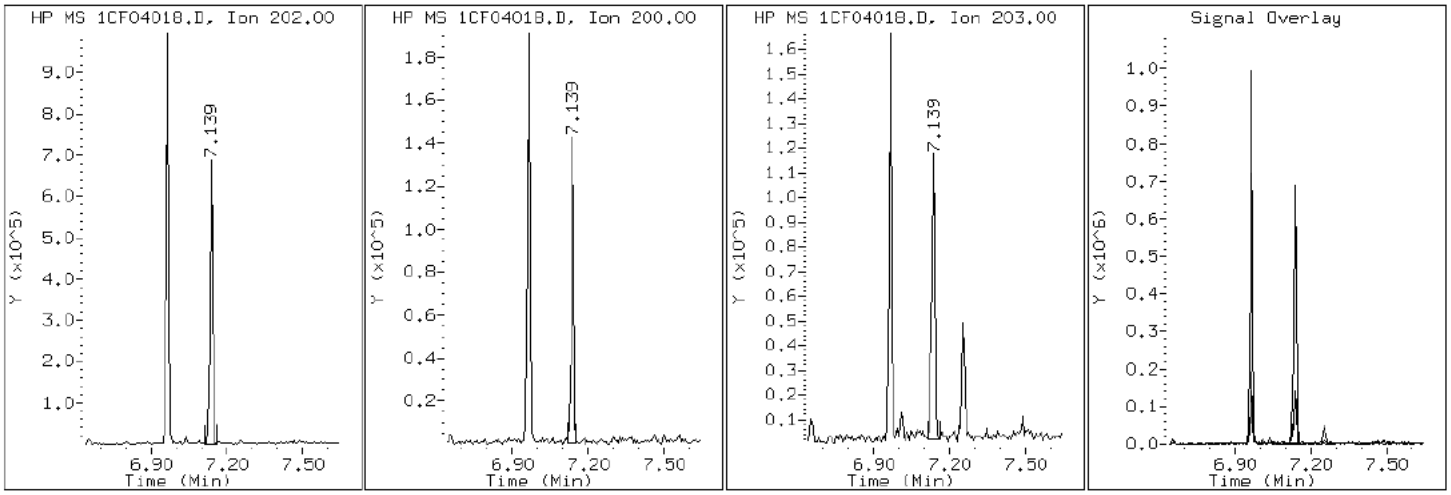
Data File: 1CF04018.D

Date: 04-JUN-2013 15:29

Client ID: CV0978B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04018.D
Inj. Date and Time: 04-JUN-2013 15:29
Instrument ID: BSMC5973.i
Client ID: CV0978B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

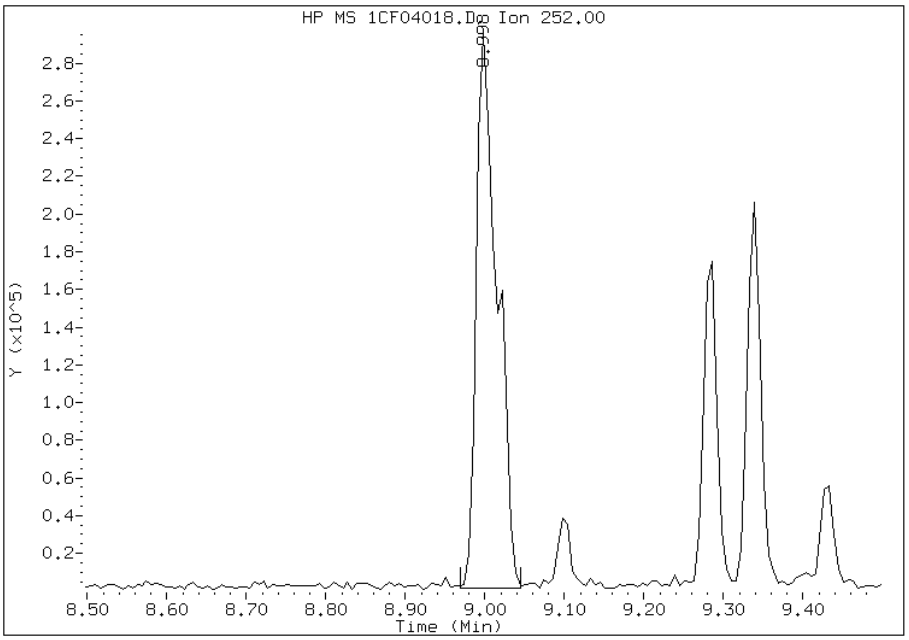
Processing Integration Results

RT: 9.00

Response: 537172

Amount: 7

Conc: 2316



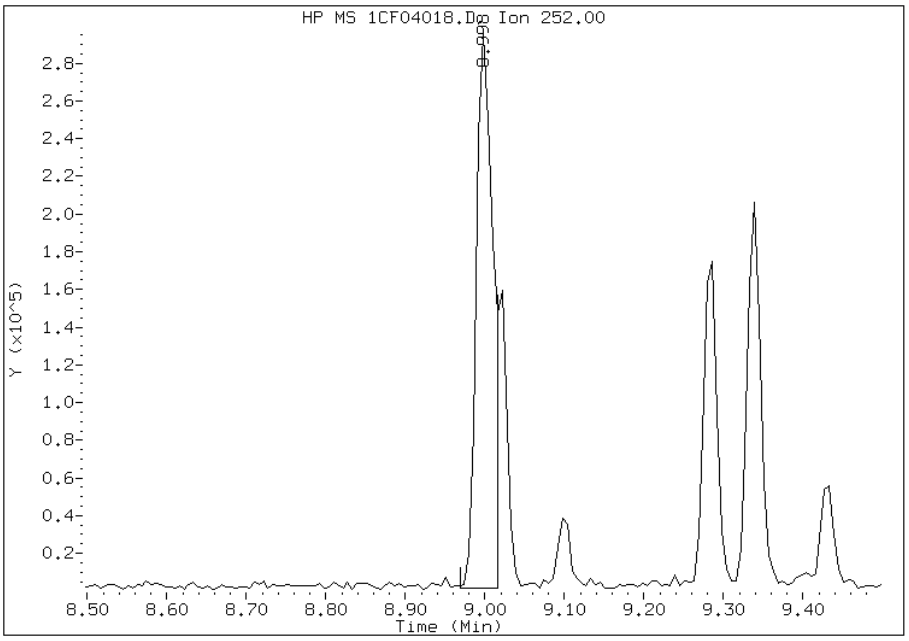
Manual Integration Results

RT: 9.00

Response: 429804

Amount: 6

Conc: 1853



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04018.D
Inj. Date and Time: 04-JUN-2013 15:29
Instrument ID: BSMC5973.i
Client ID: CV0978B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

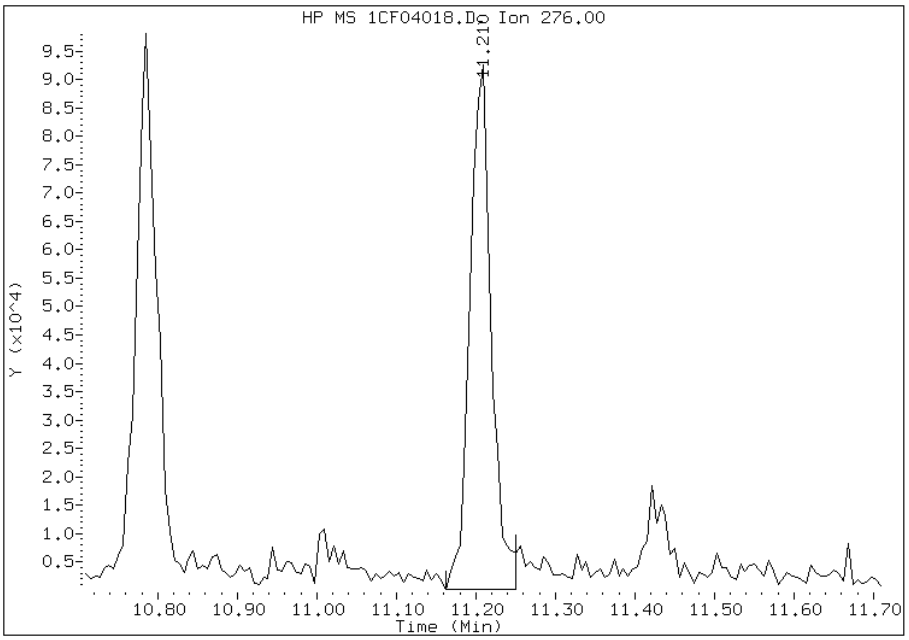
Processing Integration Results

RT: 11.21

Response: 172244

Amount: 2

Conc: 786



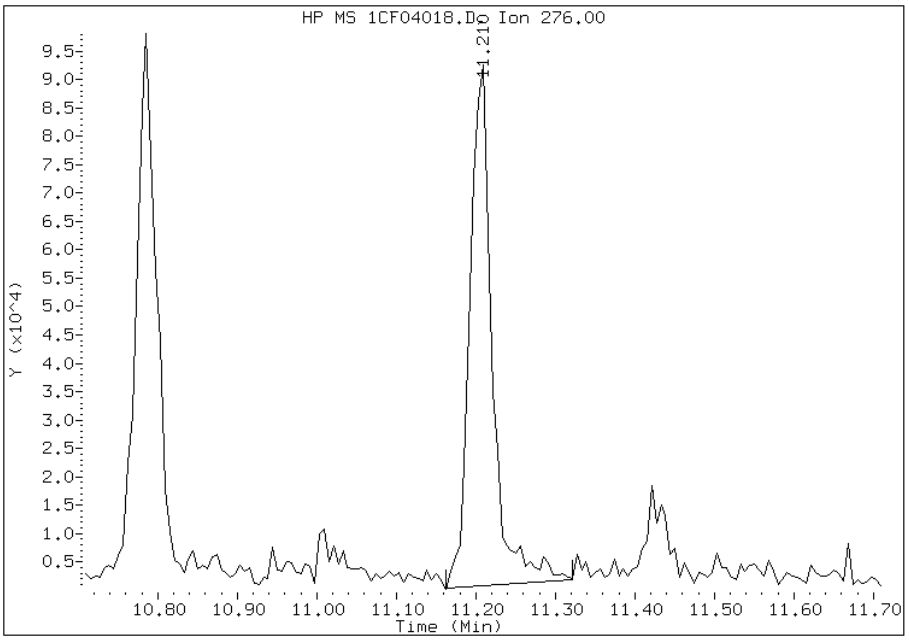
Manual Integration Results

RT: 11.21

Response: 179118

Amount: 2

Conc: 817



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04018.D
Inj. Date and Time: 04-JUN-2013 15:29
Instrument ID: BSMC5973.i
Client ID: CV0978B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

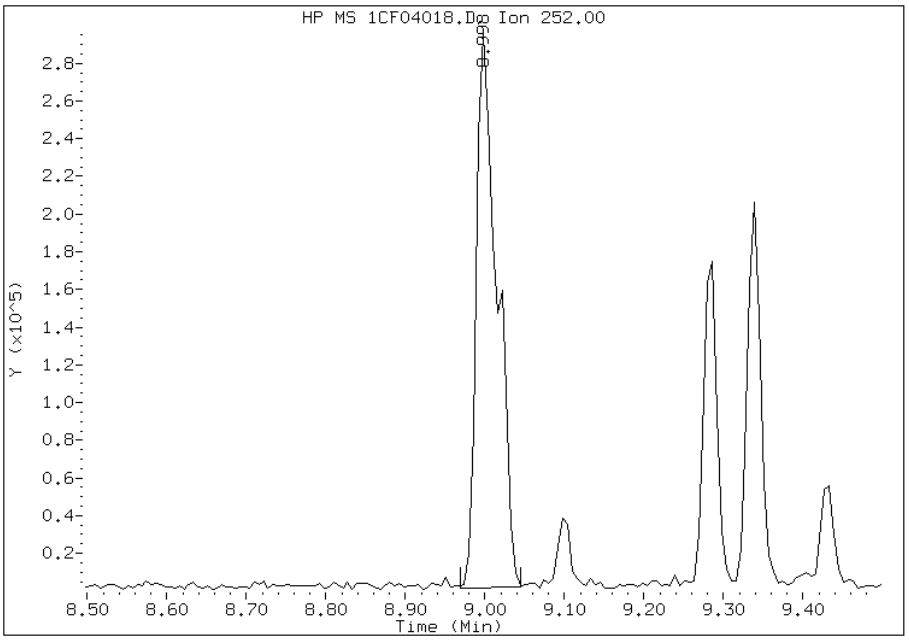
Processing Integration Results

RT: 9.00

Response: 535277

Amount: 6

Conc: 2067



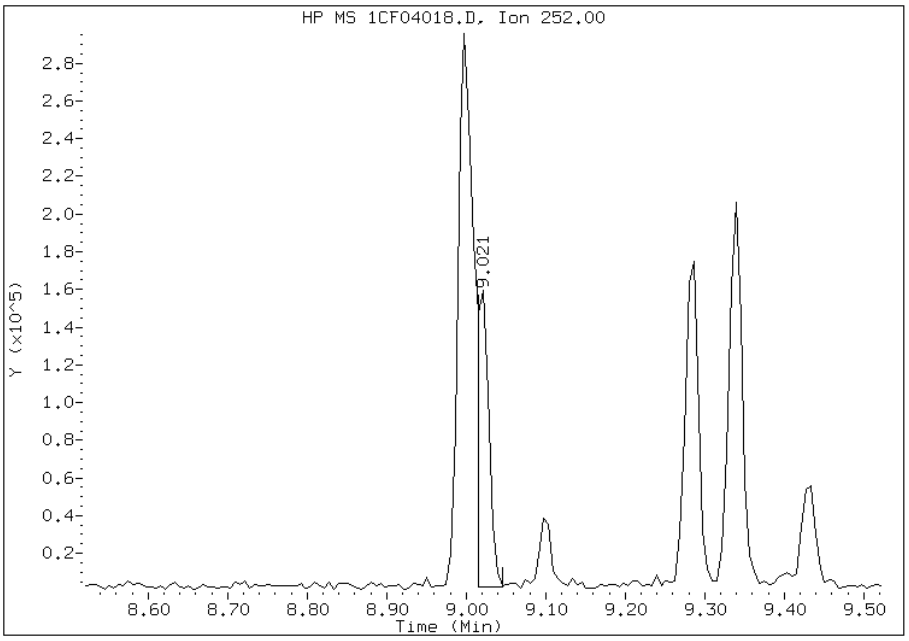
Manual Integration Results

RT: 9.02

Response: 157610

Amount: 2

Conc: 609



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04018.D
Inj. Date and Time: 04-JUN-2013 15:29
Instrument ID: BSMC5973.i
Client ID: CV0978B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

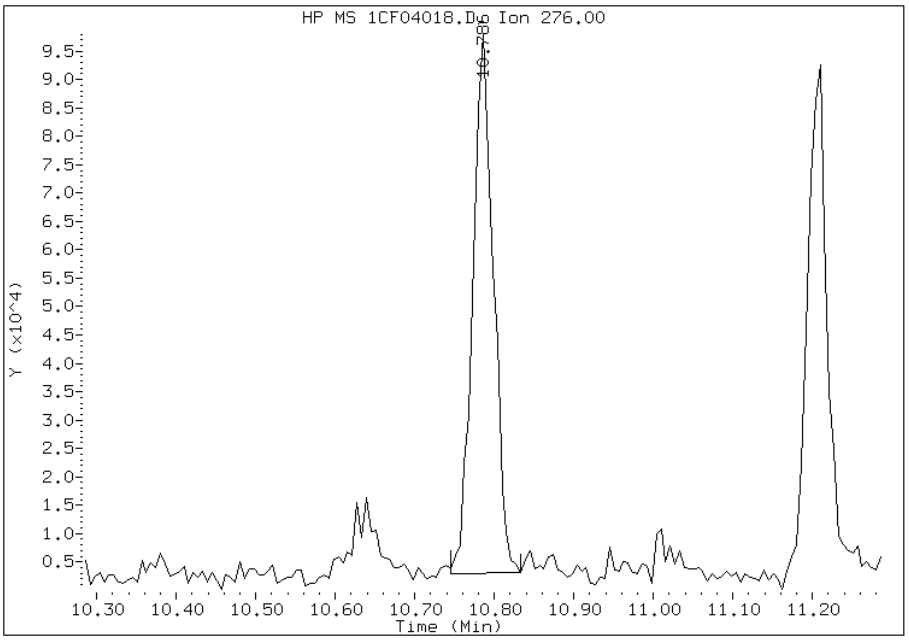
Processing Integration Results

RT: 10.79

Response: 169870

Amount: 2

Conc: 726



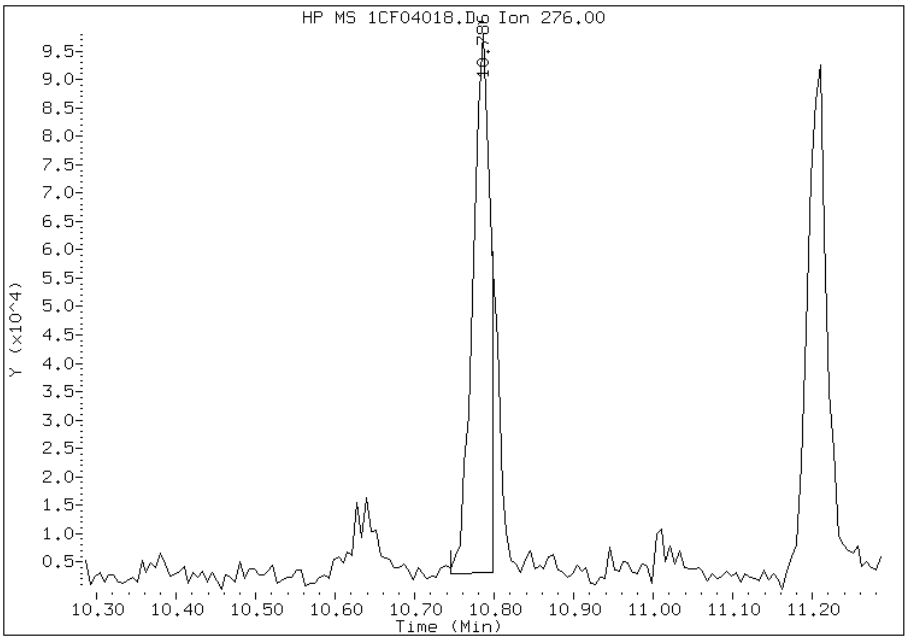
Manual Integration Results

RT: 10.79

Response: 146508

Amount: 2

Conc: 633



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978B-CSD | Lab Sample ID: 680-90723-12

Matrix: Solid | Lab File ID: 1CF04019.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:00

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

Sample wt/vol: 15.06(g) | Date Analyzed: 06/04/2013 15:48

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

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

% Moisture: 22.0 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	83	J	200	26
120-12-7	Anthracene	140		43	21
56-55-3	Benzo[a]anthracene	1100		41	20
50-32-8	Benzo[a]pyrene	1100		53	27
205-99-2	Benzo[b]fluoranthene	2000		62	31
191-24-2	Benzo[g,h,i]perylene	810		100	22
207-08-9	Benzo[k]fluoranthene	670		41	18
218-01-9	Chrysene	1400		46	23
53-70-3	Dibenz(a,h)anthracene	250		100	21
206-44-0	Fluoranthene	2200		100	20
86-73-7	Fluorene	48	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	670		100	36
90-12-0	1-Methylnaphthalene	110	J	200	22
91-57-6	2-Methylnaphthalene	150	J	200	36
91-20-3	Naphthalene	130	J	200	22
85-01-8	Phenanthrene	930	B	41	20
129-00-0	Pyrene	1900		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04019.D
Lab Smp Id: 680-90723-A-12-A Client Smp ID: CV0978B-CSD
Inj Date : 04-JUN-2013 15:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-12-a
Misc Info : 680-90723-A-12-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 19
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	15.060	Weight Extracted
M	21.951	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2566229	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1774331	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3066249	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	105383	2.20631	750.8195
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	3154637	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3142183	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	28081	0.38776	131.9565
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	18061	0.44963	153.0120
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	12822	0.32444	110.4084
	5 Acenaphthylene	152	5.045	5.045	(0.983)	16644	0.24469	83.2700
	9 Fluorene	166	5.474	5.480	(1.066)	7700	0.14148	48.1448(Q)
	11 Phenanthrene	178	6.115	6.121	(1.002)	247047	2.72709	928.0439
	12 Anthracene	178	6.151	6.157	(1.008)	35493	0.42291	143.9181
	13 Carbazole	167	6.257	6.257	(1.025)	41407	0.64309	218.8464

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	589582	6.36730	2166.8270
16 Pyrene	202	7.139	7.145	(0.885)	474835	5.57416	1896.9171
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	270068	3.10468	1056.5381
19 Chrysene	228	8.086	8.092	(1.002)	360683	4.11829	1401.4773
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	464650	6.01864	2048.1753
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.959)	169403	1.96463	668.5756(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	249621	3.26239	1110.2087
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	151972	1.96678	669.3050(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	49929	0.74447	253.3457
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	173956	2.38303	810.9583

QC Flag Legend

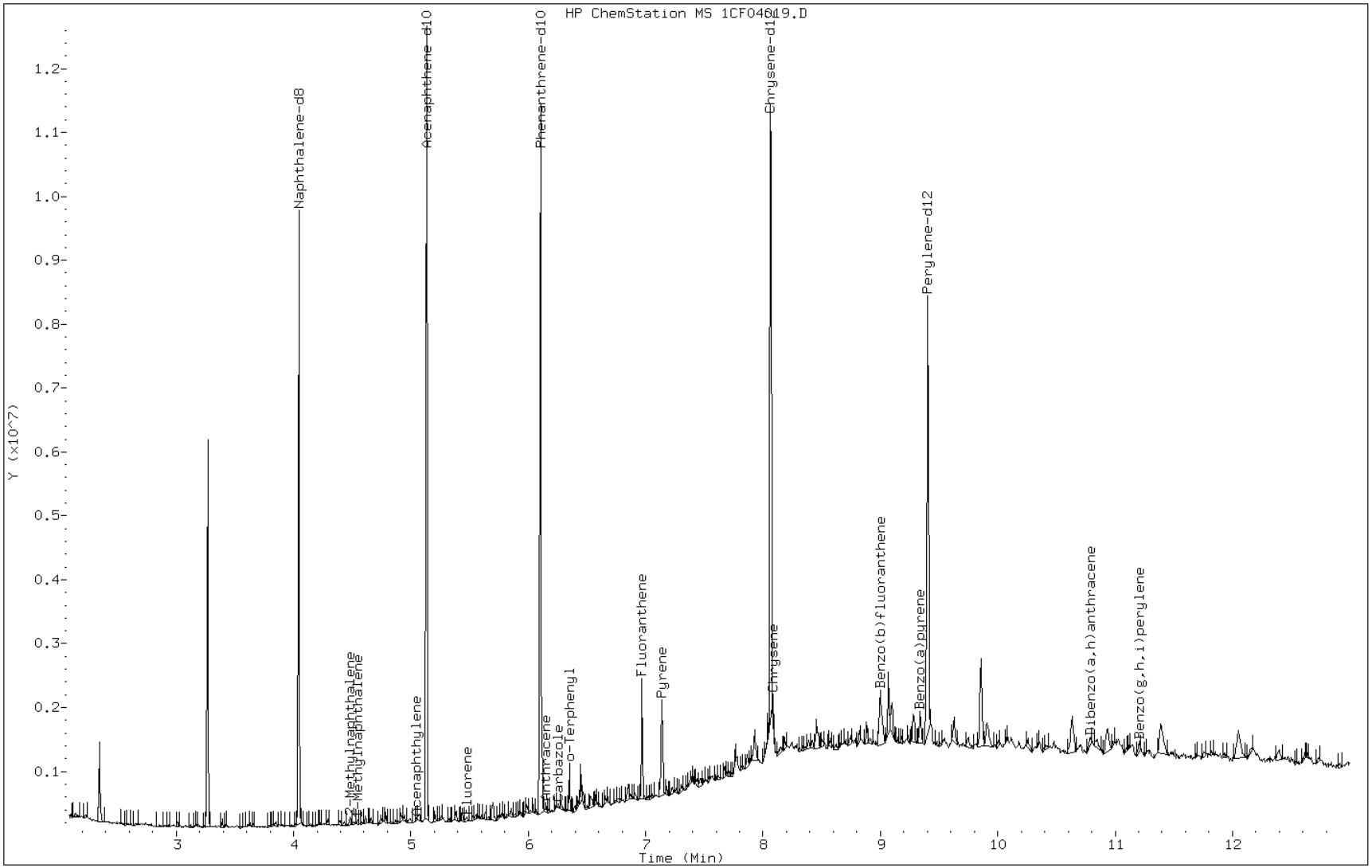
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC



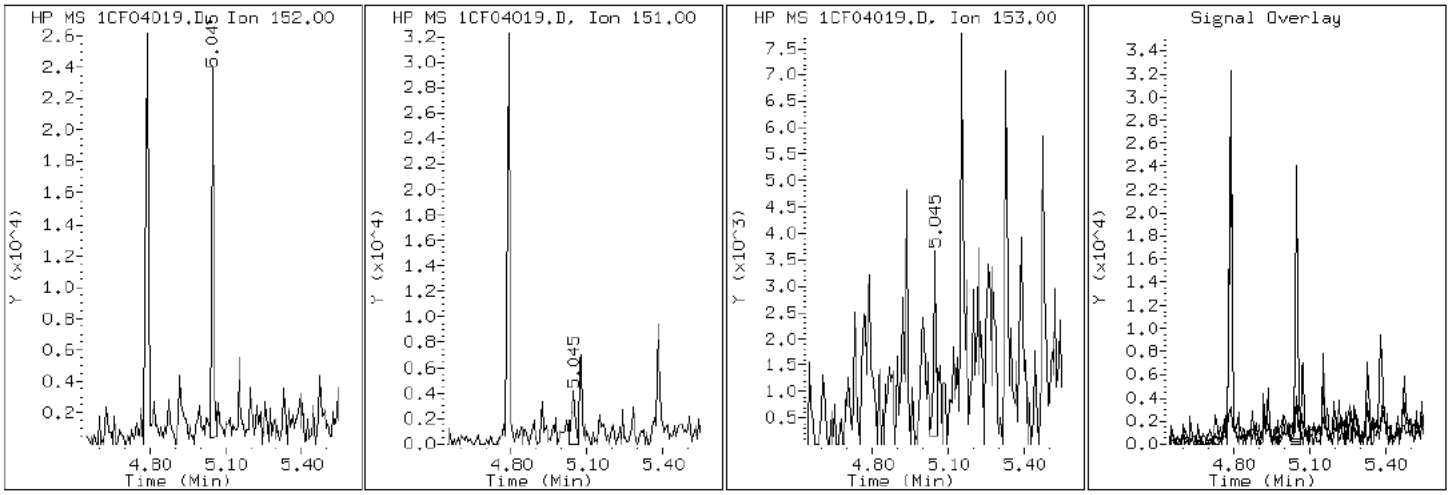
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

5 Acenaphthylene



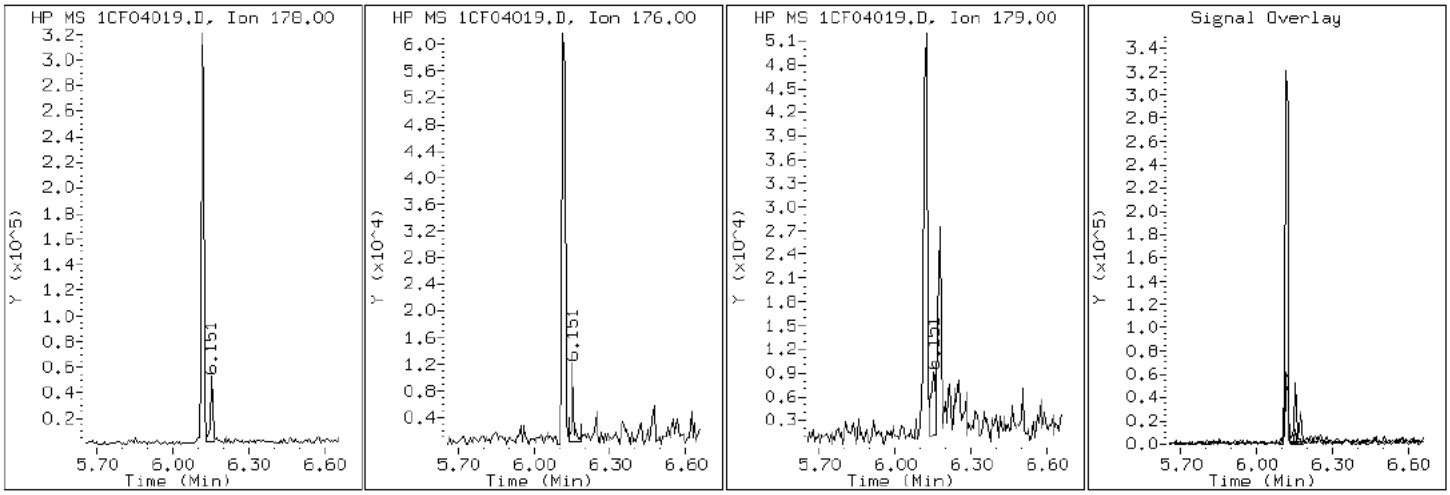
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

12 Anthracene



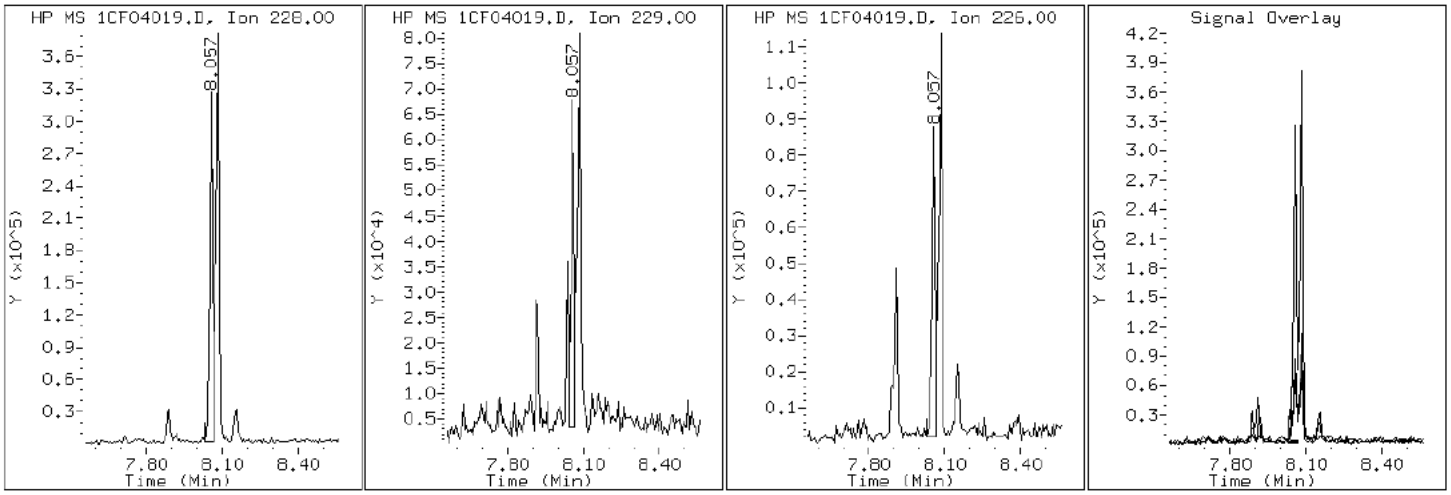
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

17 Benzo(a)anthracene



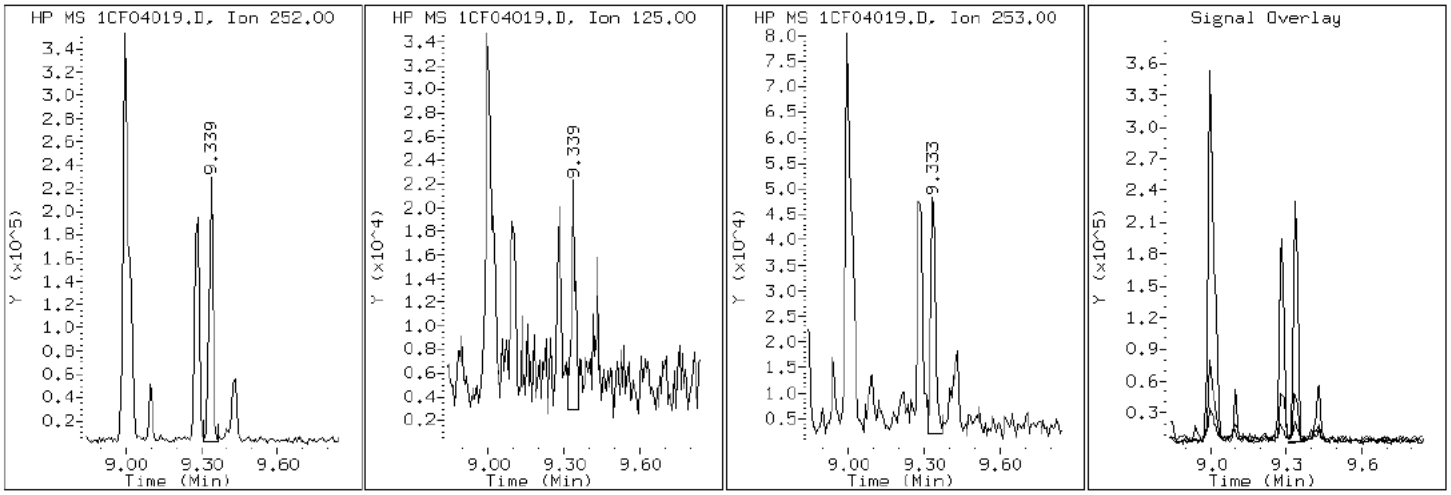
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

22 Benzo(a)pyrene



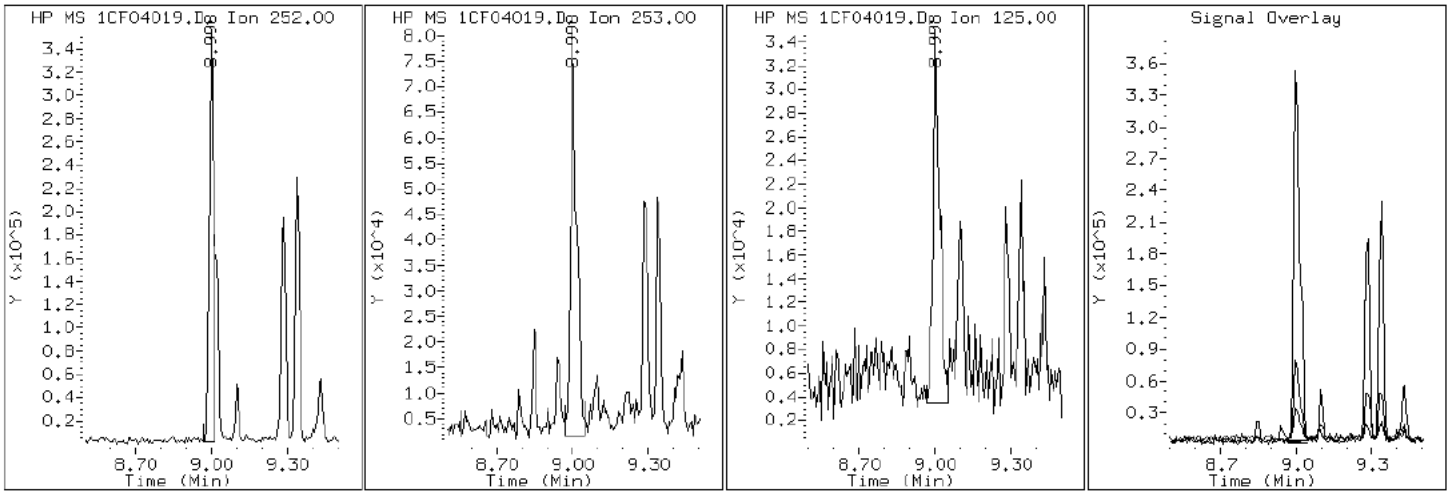
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



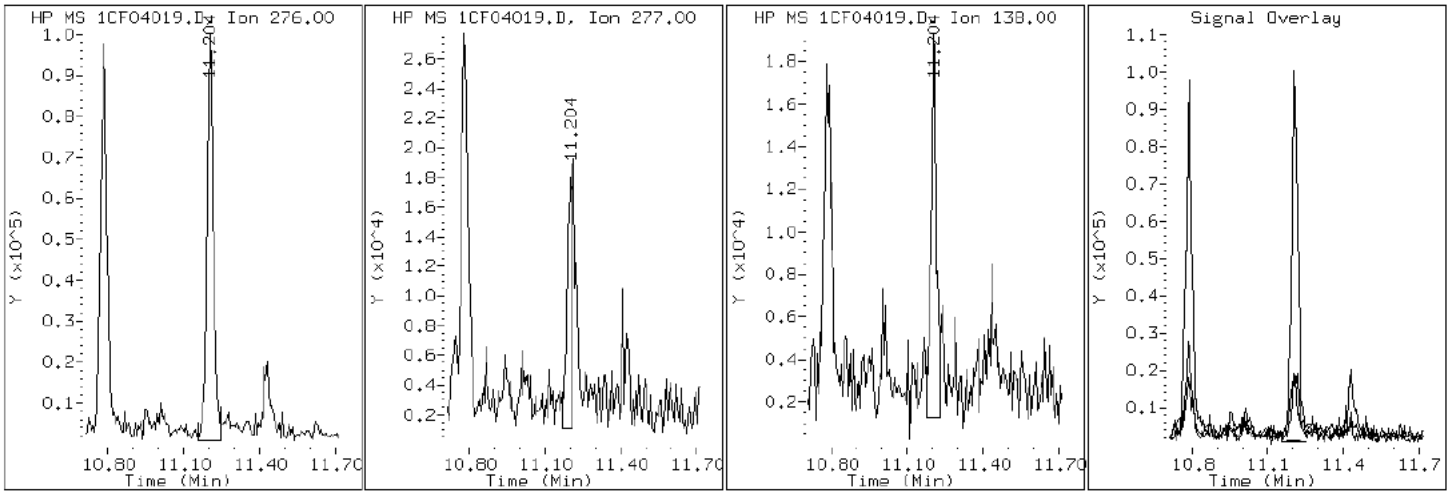
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



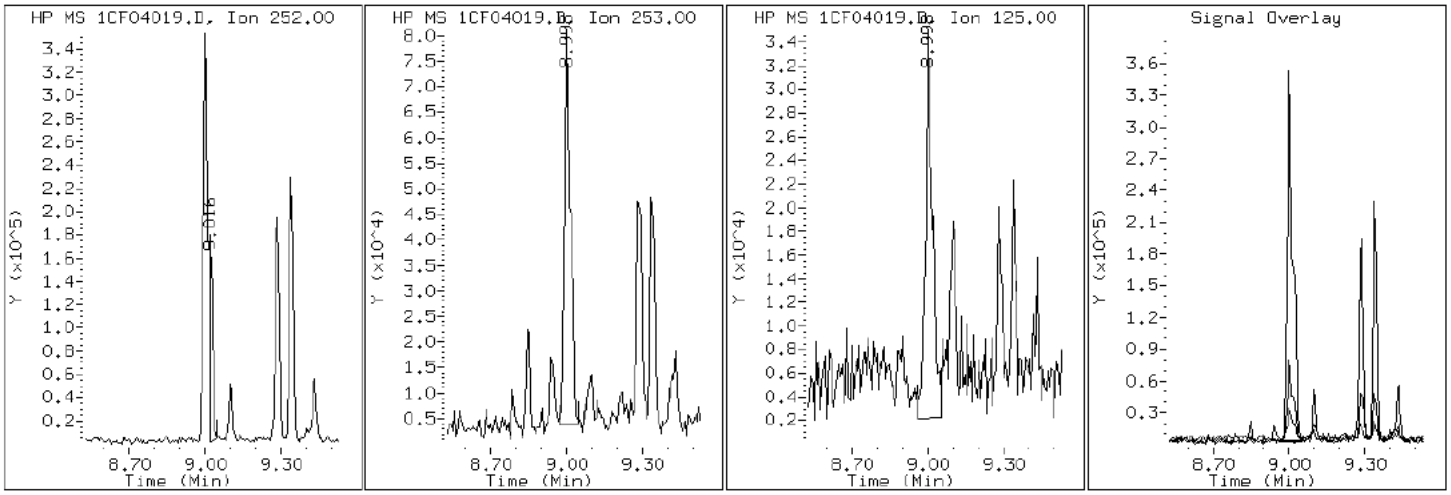
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



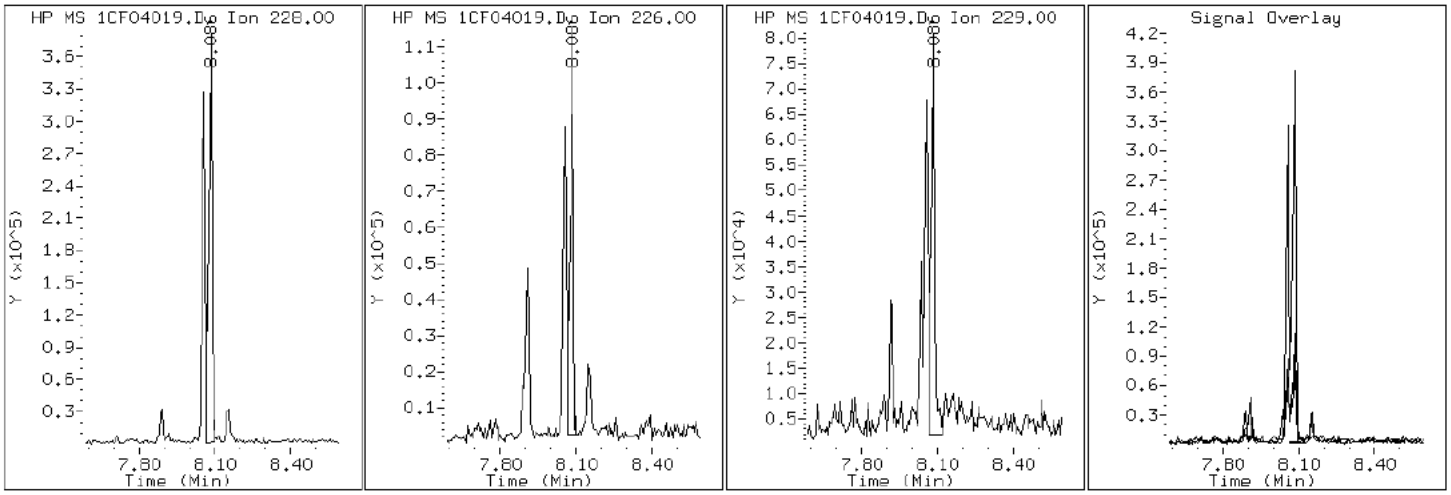
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

19 Chrysene



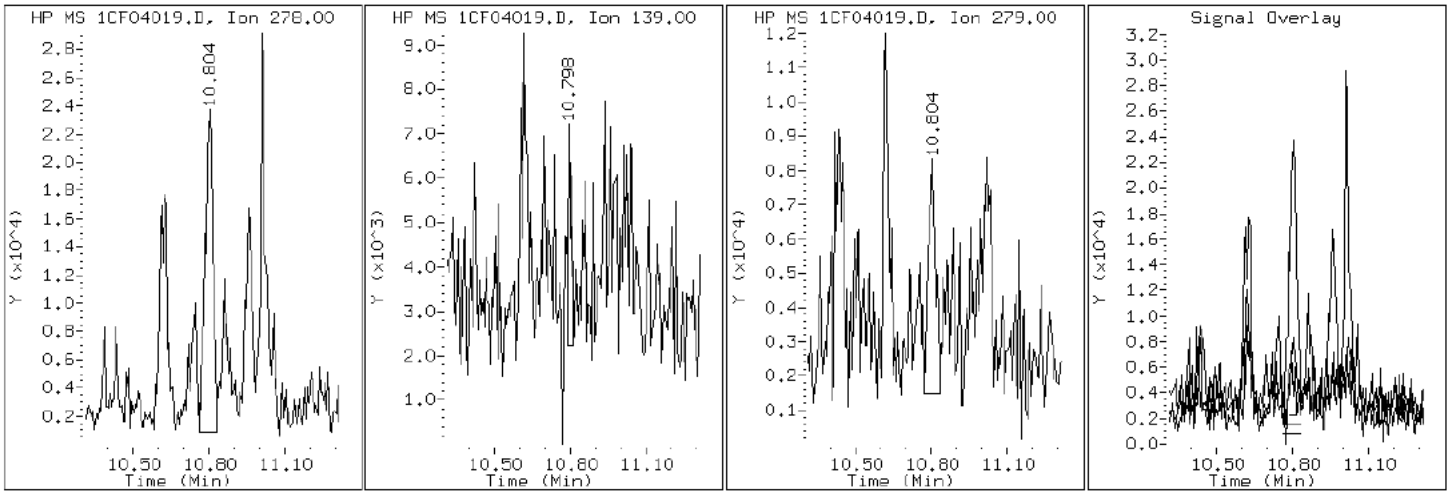
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



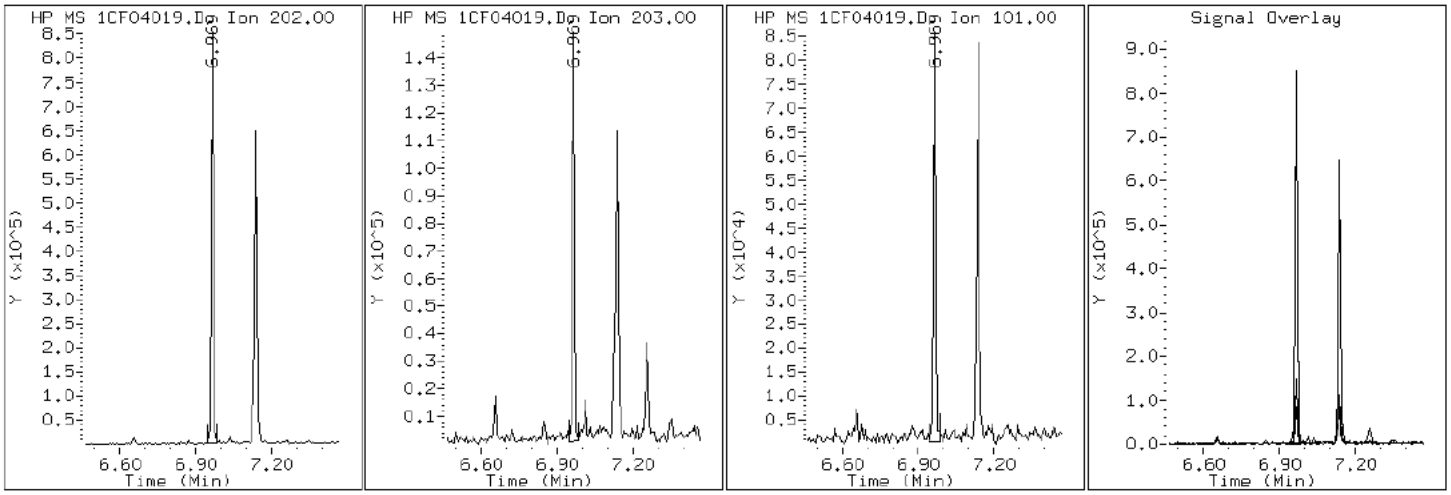
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

15 Fluoranthene



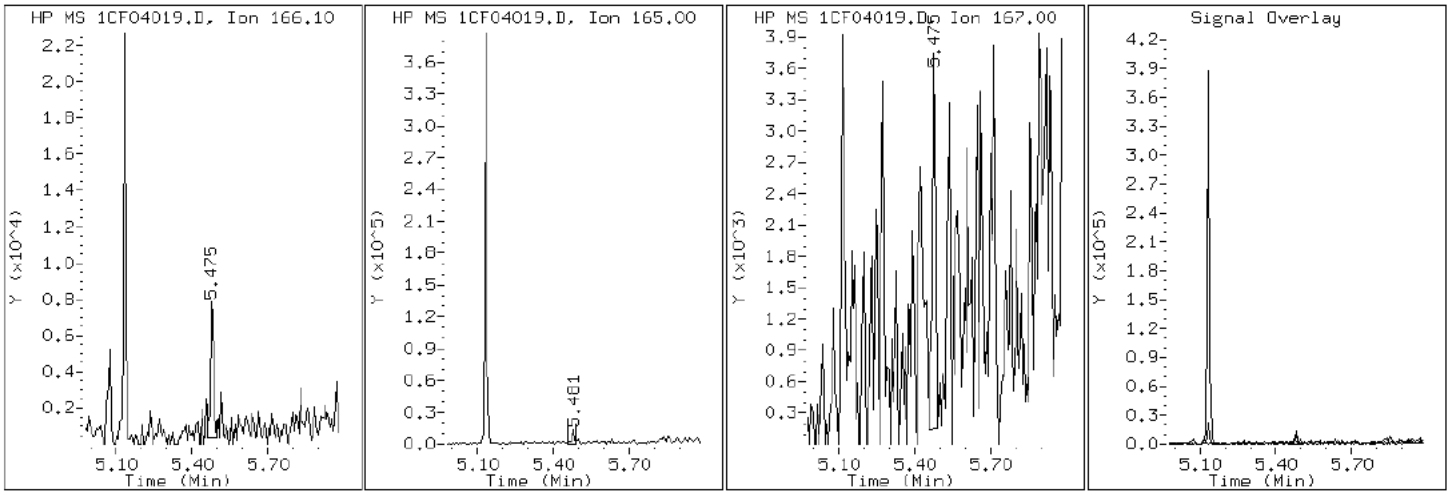
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

9 Fluorene



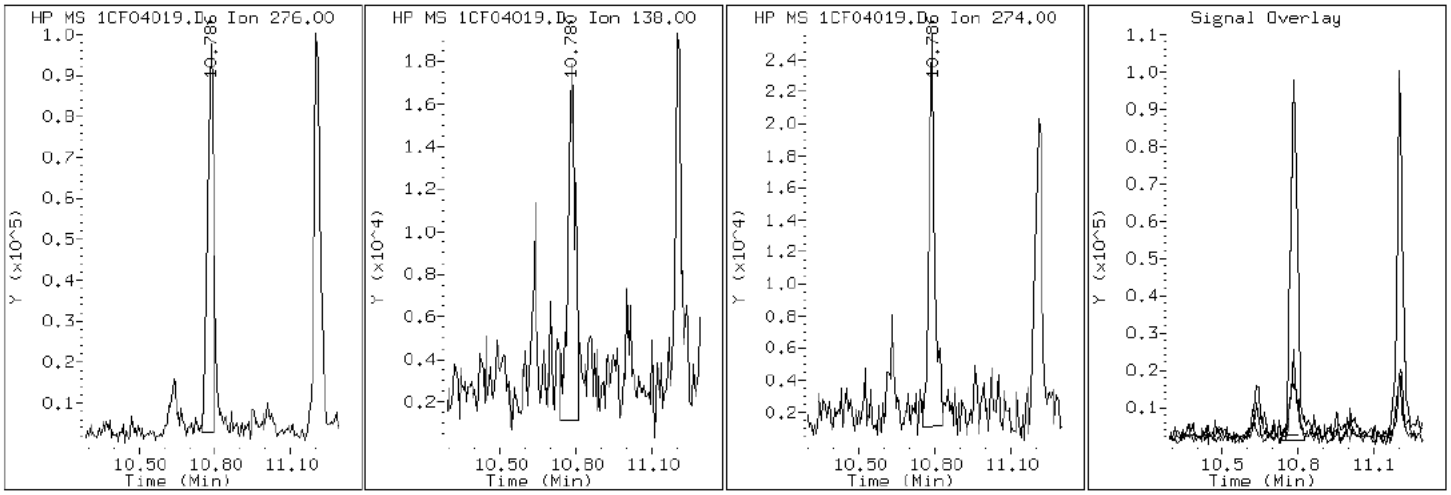
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

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



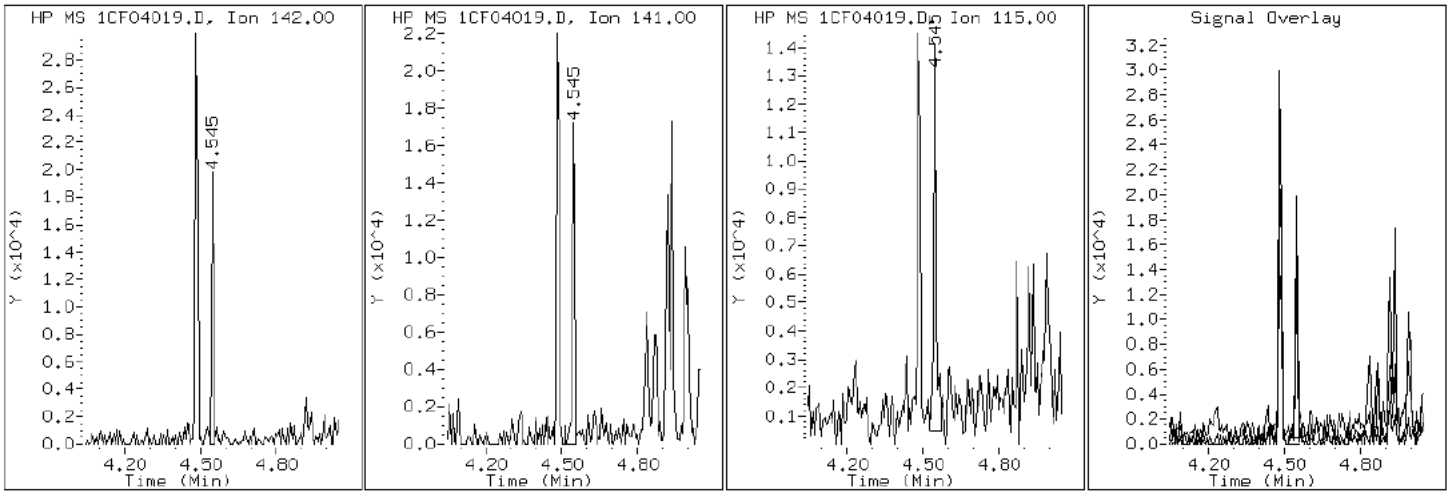
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

4 1-Methylnaphthalene



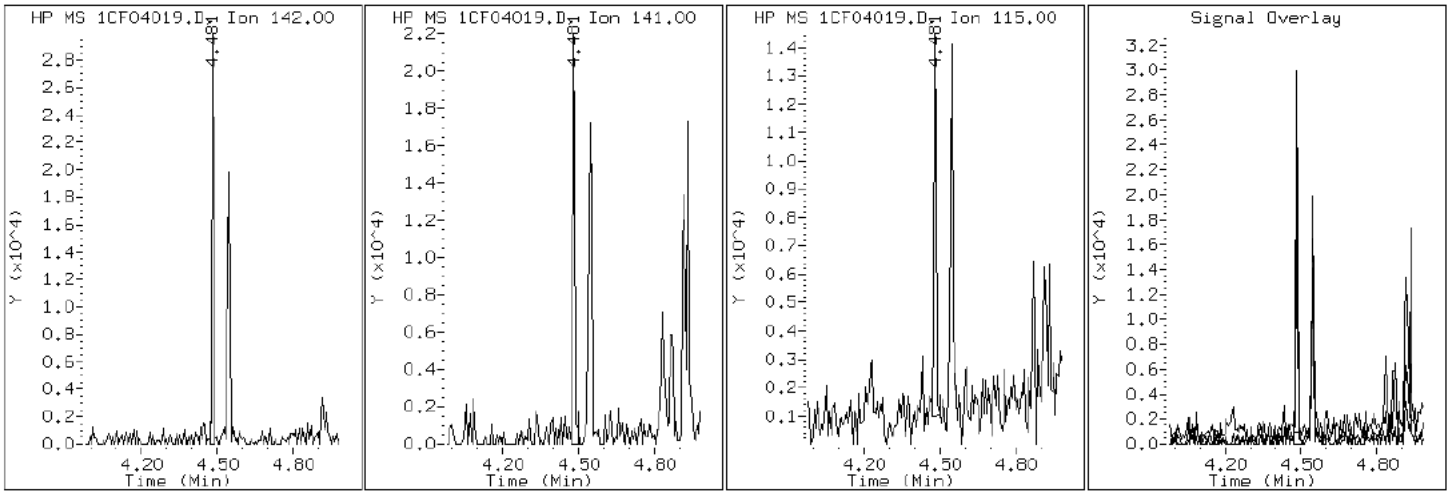
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

3 2-Methylnaphthalene



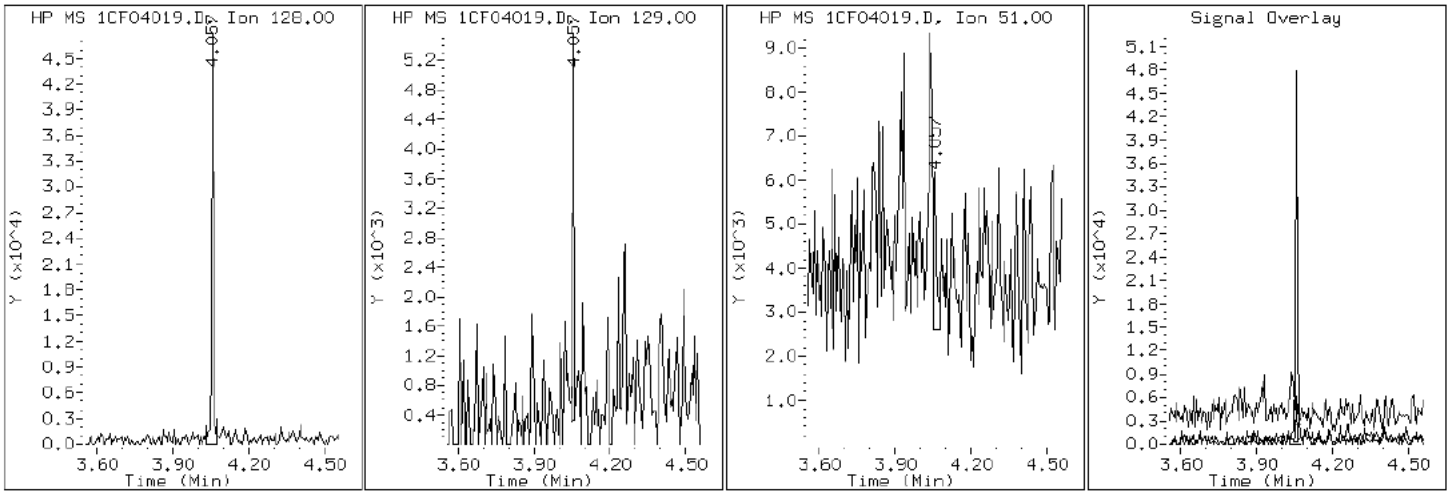
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

2 Naphthalene



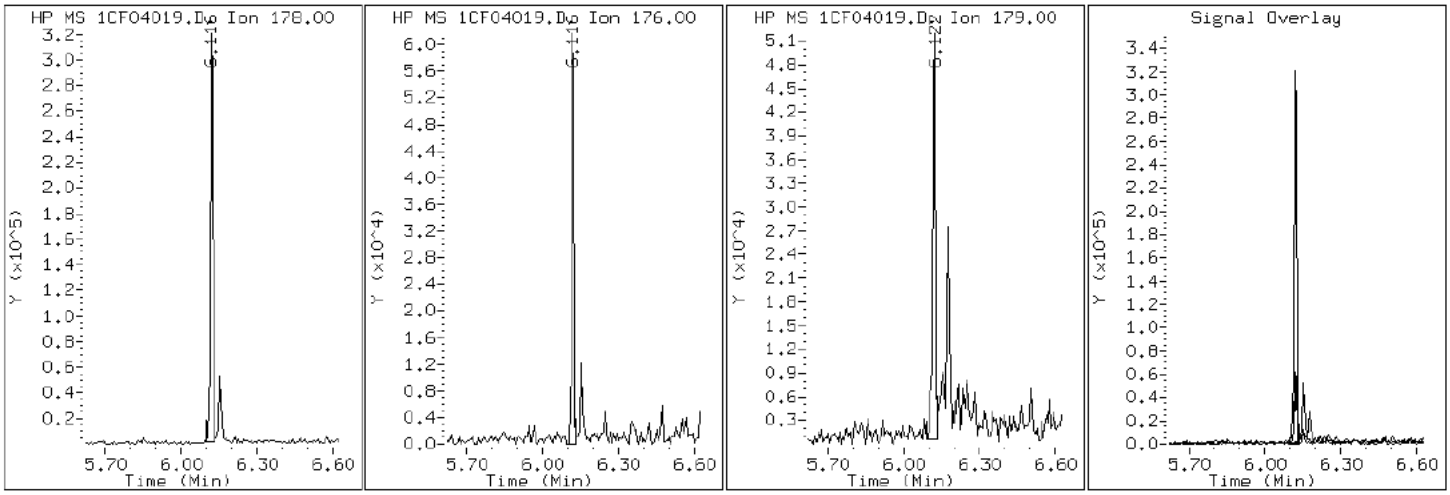
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

11 Phenanthrene



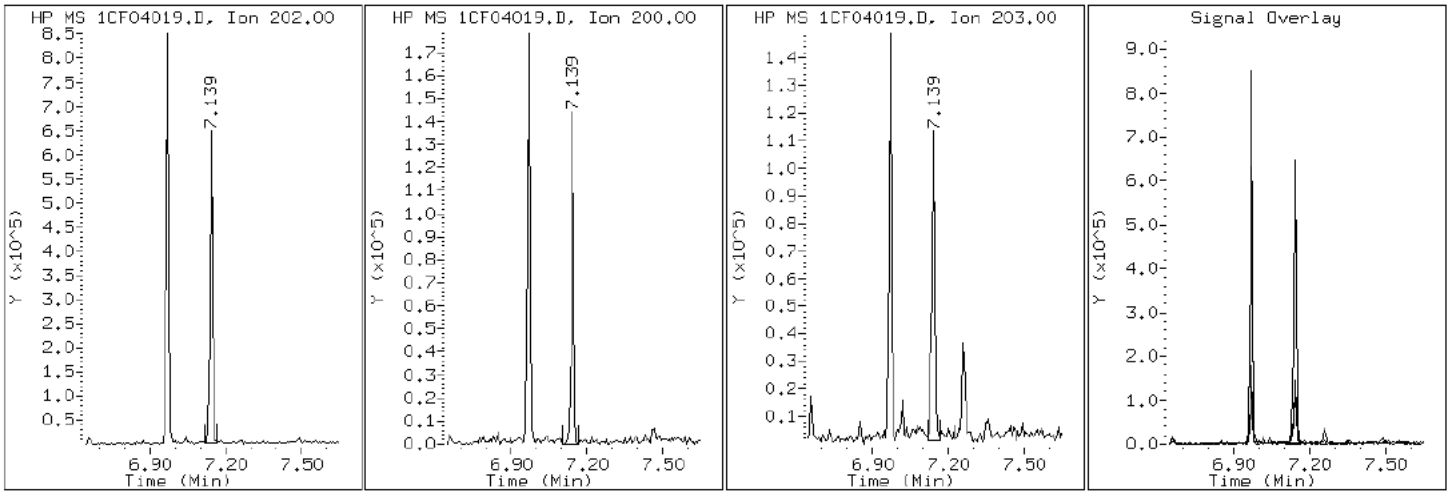
Data File: 1CF04019.D

Date: 04-JUN-2013 15:48

Client ID: CV0978B-CSD Instrument: BSMC5973.i

Sample Info: 680-90723-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04019.D
Inj. Date and Time: 04-JUN-2013 15:48
Instrument ID: BSMC5973.i
Client ID: CV0978B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

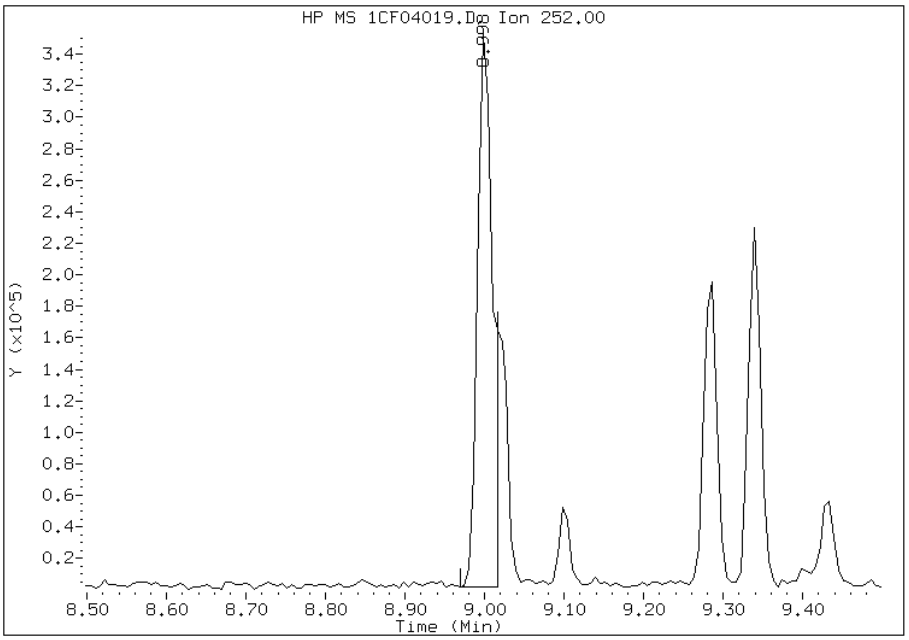
Processing Integration Results

RT: 9.00

Response: 464650

Amount: 5

Conc: 1834



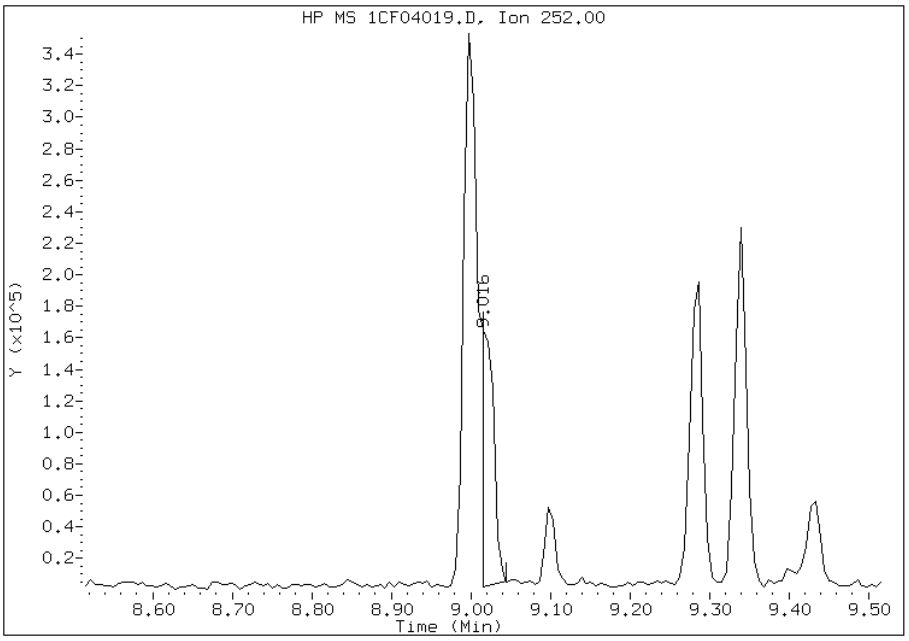
Manual Integration Results

RT: 9.02

Response: 169403

Amount: 2

Conc: 669



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04019.D
Inj. Date and Time: 04-JUN-2013 15:48
Instrument ID: BSMC5973.i
Client ID: CV0978B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

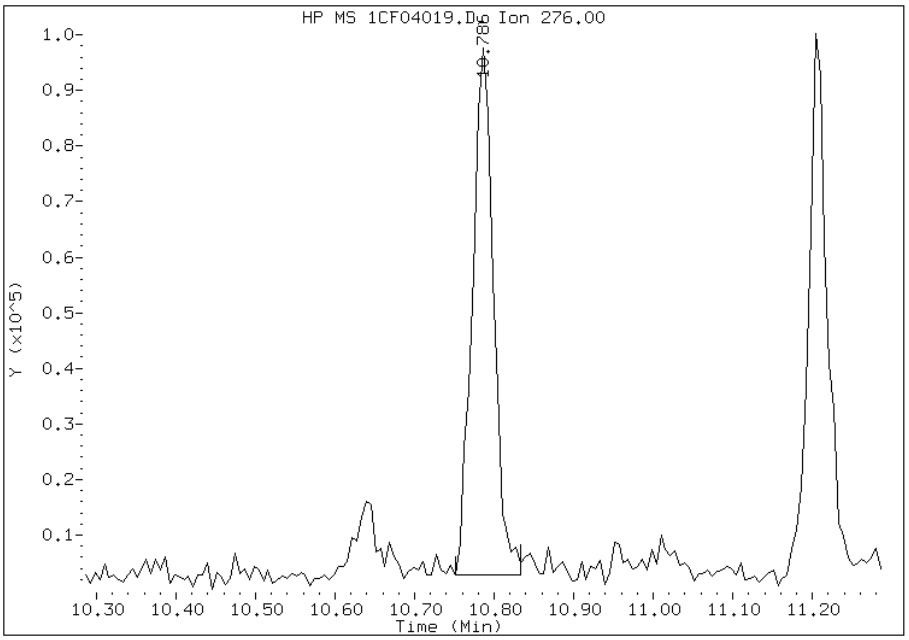
Processing Integration Results

RT: 10.79

Response: 174639

Amount: 2

Conc: 761



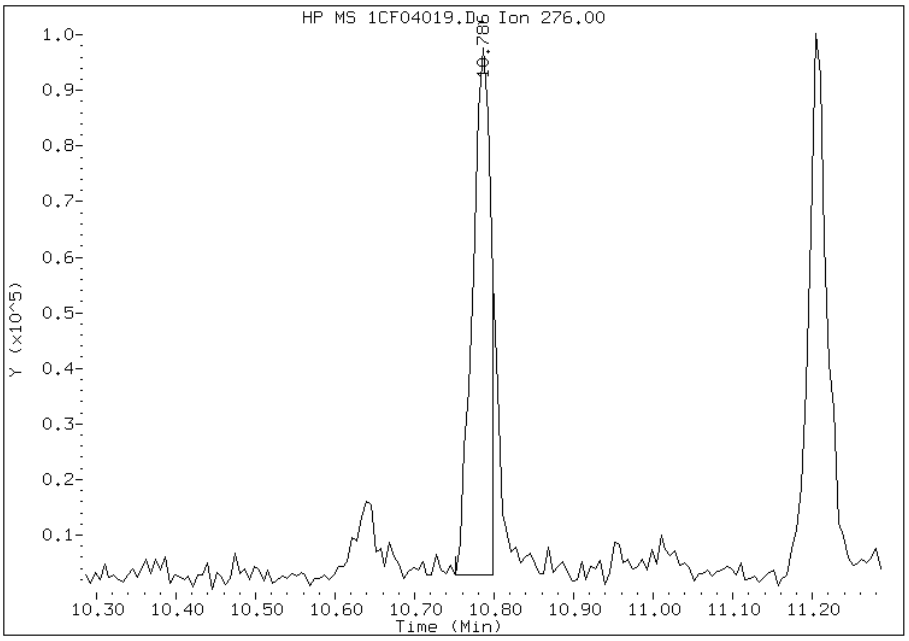
Manual Integration Results

RT: 10.79

Response: 151972

Amount: 2

Conc: 669



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 11:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978C-CS | Lab Sample ID: 680-90723-13

Matrix: Solid | Lab File ID: 1CF04023.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:15

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.40(g) | Date Analyzed: 06/04/2013 17:01

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

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

% Moisture: 28.9 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	J	550	110
208-96-8	Acenaphthylene	95	J	220	27
120-12-7	Anthracene	220		46	23
56-55-3	Benzo[a]anthracene	1200		44	21
50-32-8	Benzo[a]pyrene	1000		57	29
205-99-2	Benzo[b]fluoranthene	1800		67	33
191-24-2	Benzo[g,h,i]perylene	830		110	24
207-08-9	Benzo[k]fluoranthene	590		44	20
218-01-9	Chrysene	1500		49	25
53-70-3	Dibenz(a,h)anthracene	190		110	22
206-44-0	Fluoranthene	1900		110	22
86-73-7	Fluorene	130		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	560		110	39
90-12-0	1-Methylnaphthalene	1300		220	24
91-57-6	2-Methylnaphthalene	1400		220	39
91-20-3	Naphthalene	620		220	24
85-01-8	Phenanthrene	1500		44	21
129-00-0	Pyrene	1900		110	20

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\1C060413.b\1CF04023.D
Lab Smp Id: 680-90723-A-13-A Client Smp ID: CV0978C-CS
Inj Date : 04-JUN-2013 17:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-13-a
Misc Info : 680-90723-A-13-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 23
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	15.400	Weight Extracted
M	28.941	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2601366	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1814974	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3202438	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	93577	1.87582	685.6669
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3303334	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3349506	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	124767	1.69959	621.2470
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	161044	3.95506	1445.6883
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	138260	3.45118	1261.5062
	5 Acenaphthylene	152	5.045	5.045	(0.983)	18010	0.25885	94.6153
	7 Acenaphthene	154	5.151	5.151	(1.003)	13284	0.30445	111.2863(Q)
	9 Fluorene	166	5.480	5.480	(1.068)	19416	0.34875	127.4781
	11 Phenanthrene	178	6.116	6.121	(1.002)	382748	4.04538	1478.7029
	12 Anthracene	178	6.151	6.157	(1.008)	53924	0.61520	224.8713

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	47988	0.70101	256.2393
15 Fluoranthene	202	6.968	6.968	(1.142)	508533	5.25844	1922.1099
16 Pyrene	202	7.139	7.145	(0.885)	475163	5.32692	1947.1415
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	288427	3.16647	1157.4366
19 Chrysene	228	8.086	8.092	(1.003)	366455	3.99585	1460.5967
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	414985	5.04261	1843.2178(M)
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	149578	1.62734	594.8401(M)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	222603	2.74568	1003.6225
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	121932	1.51952	555.4282(M)
25 Dibenzo(a,h)anthracene	278	10.798	10.815	(1.148)	36924	0.51648	188.7872
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	176308	2.26576	828.1981(M)

QC Flag Legend

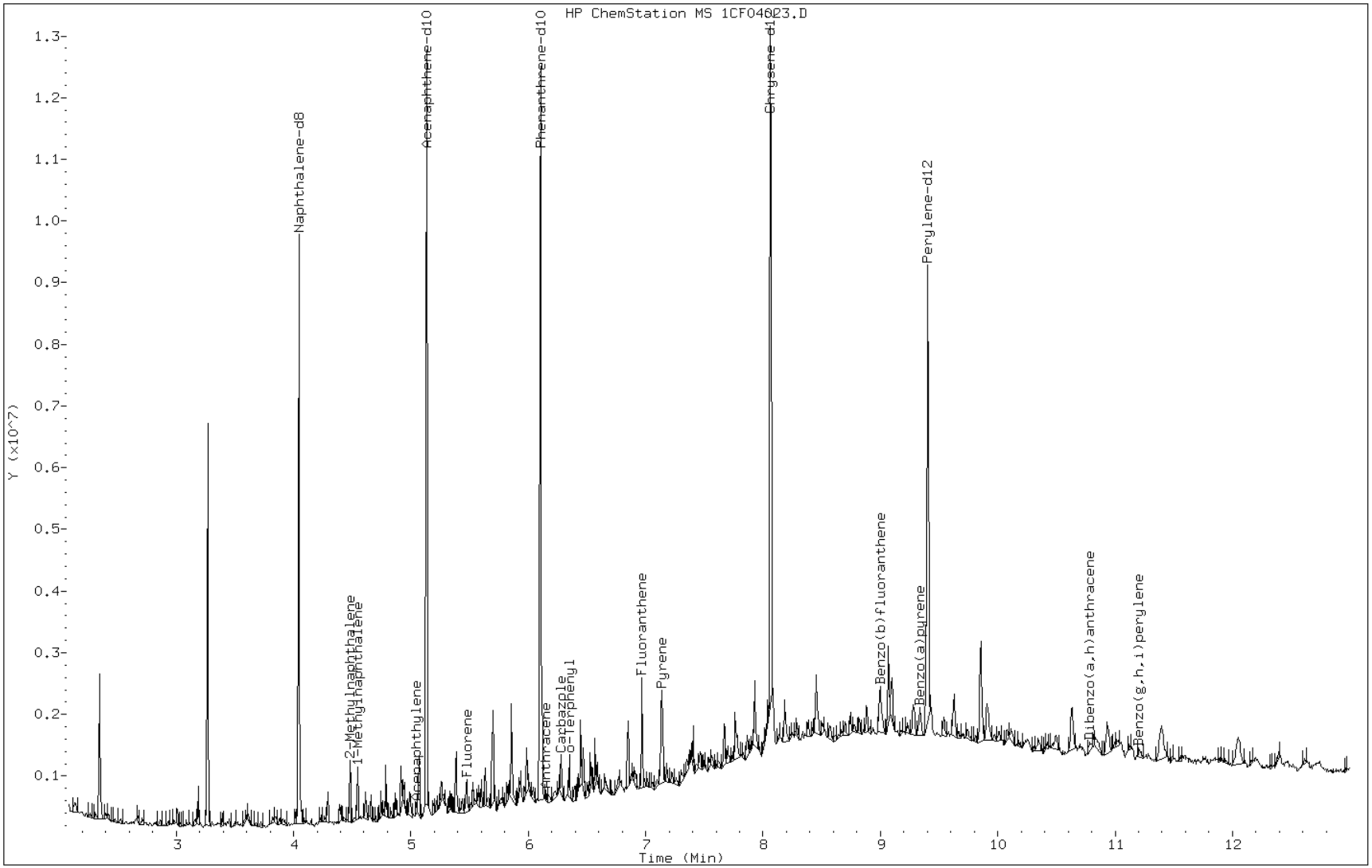
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC



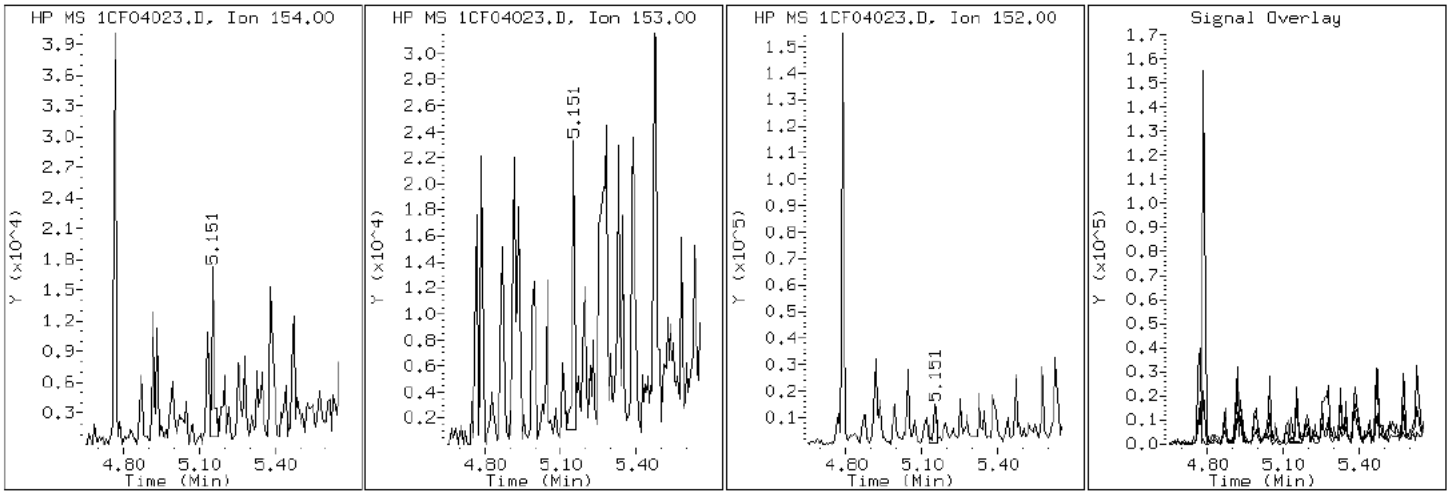
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

7 Acenaphthene



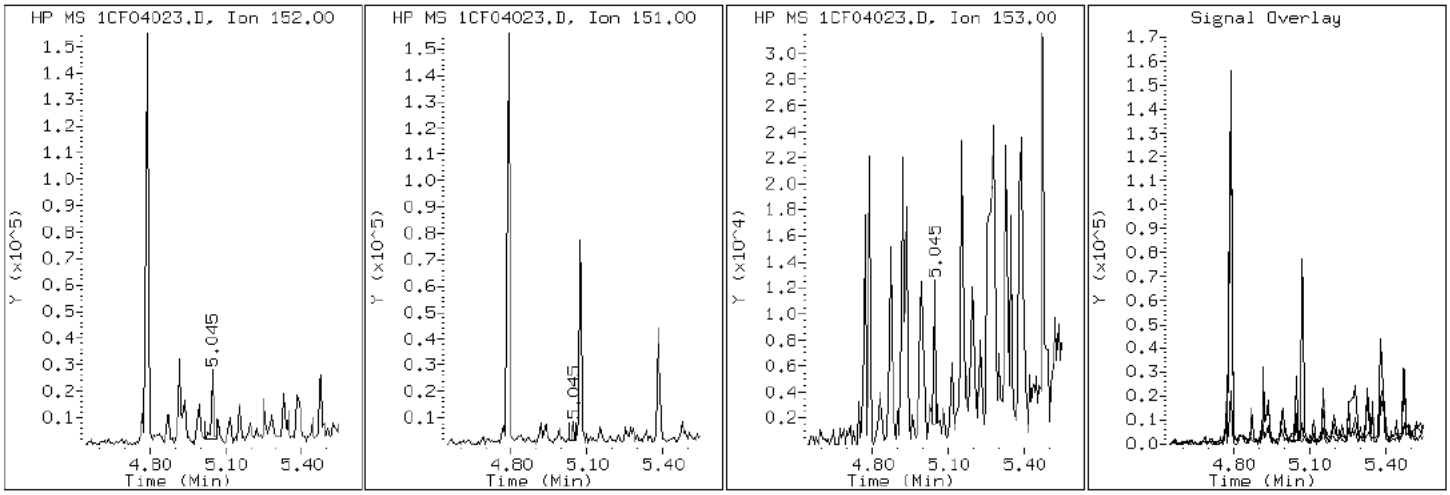
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

5 Acenaphthylene



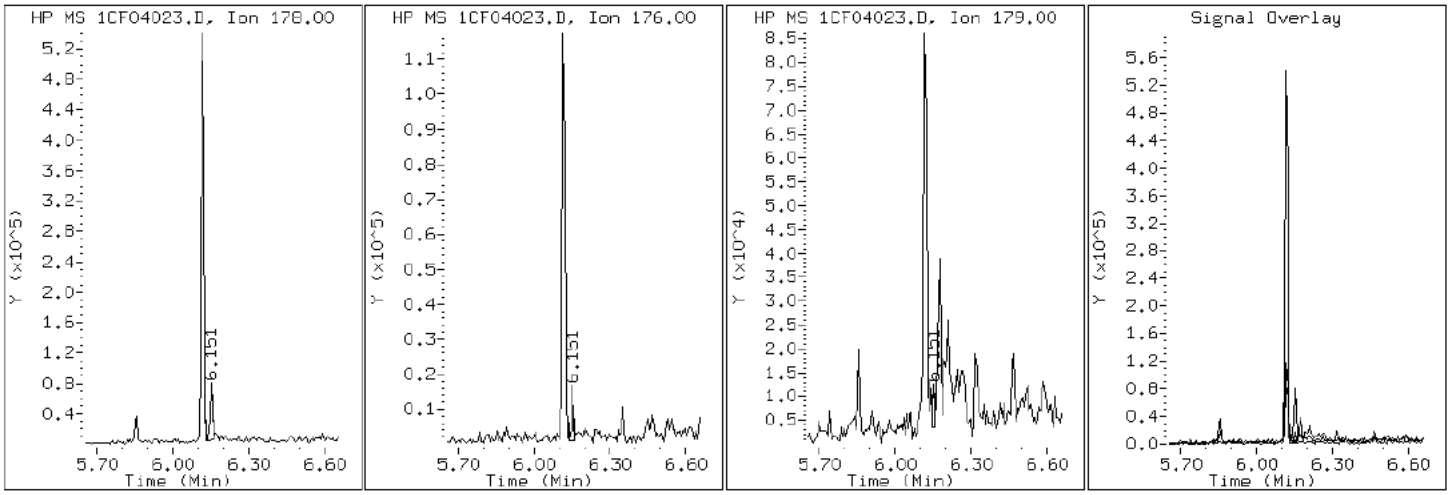
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

12 Anthracene



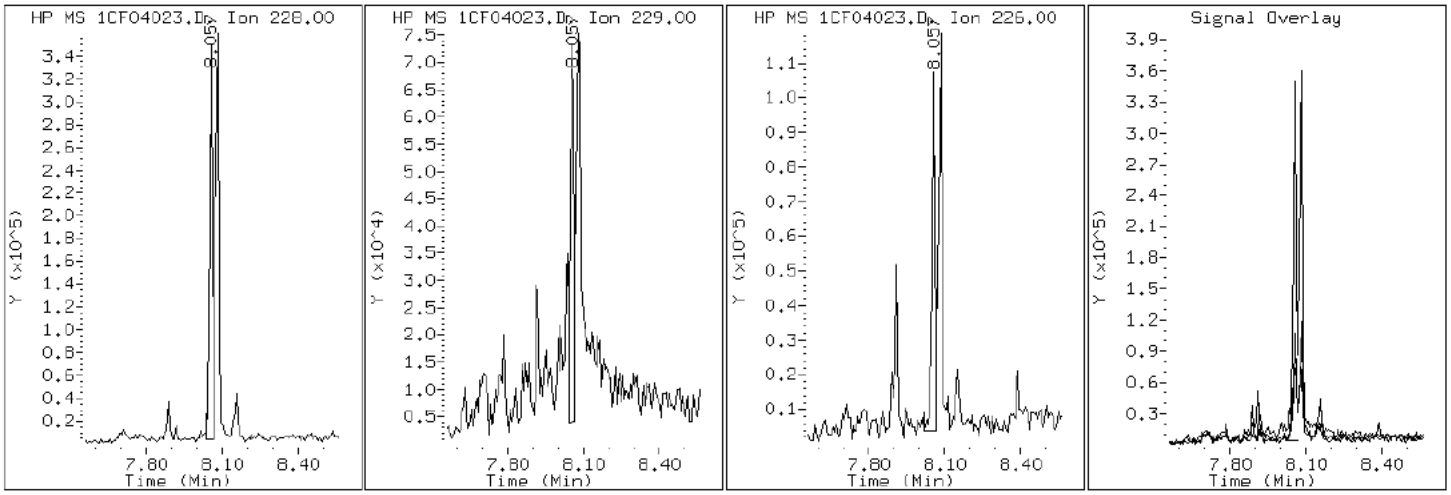
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

17 Benzo(a)anthracene



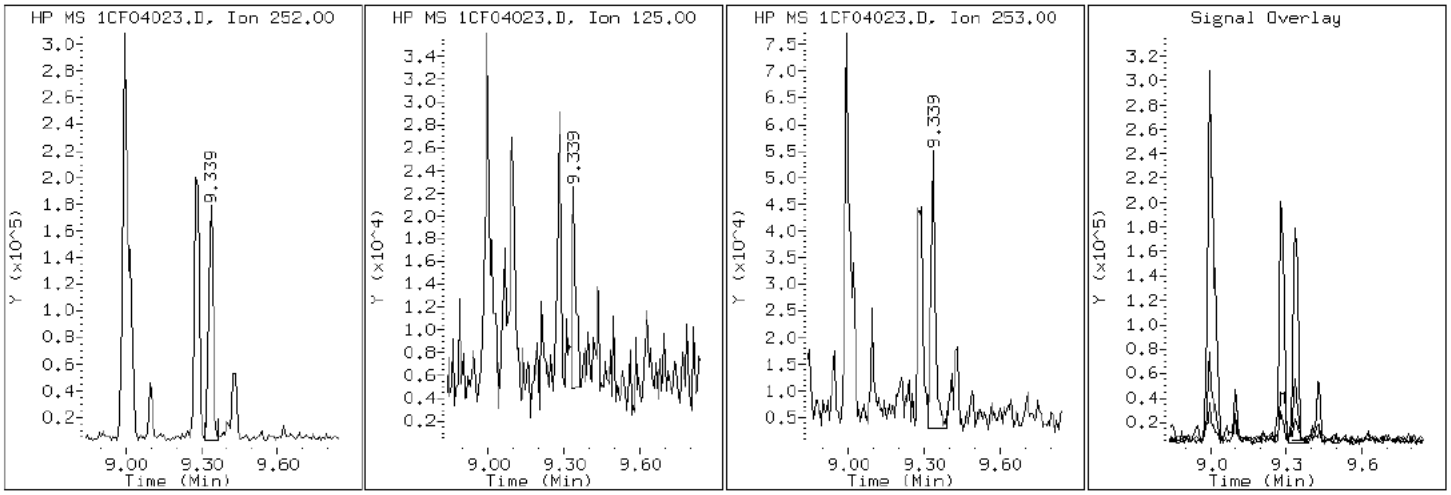
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

22 Benzo(a)pyrene



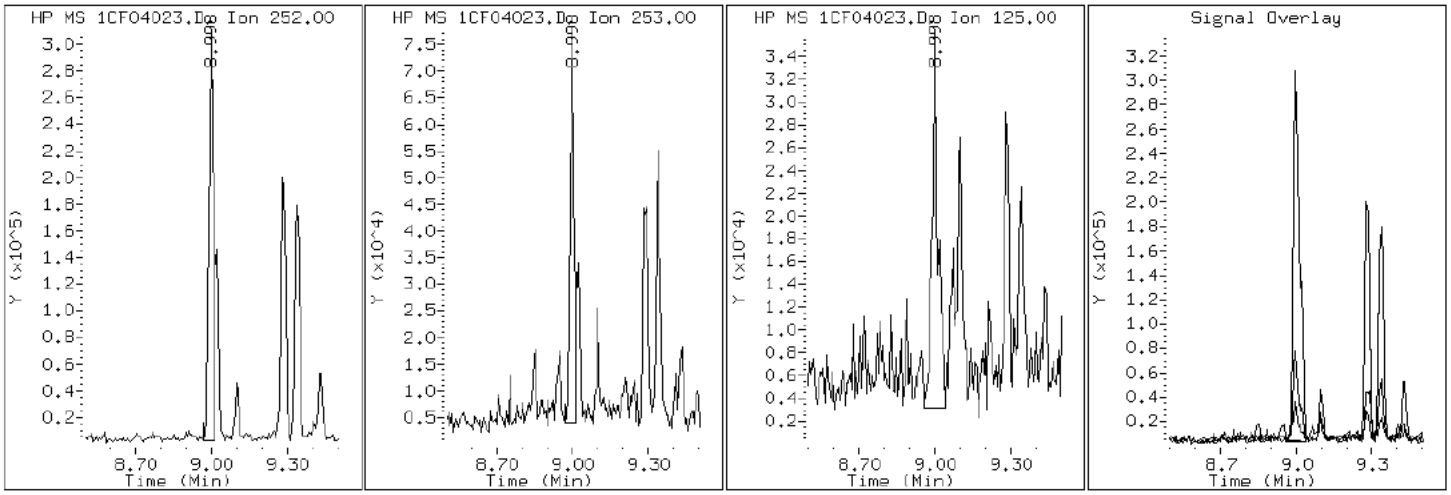
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



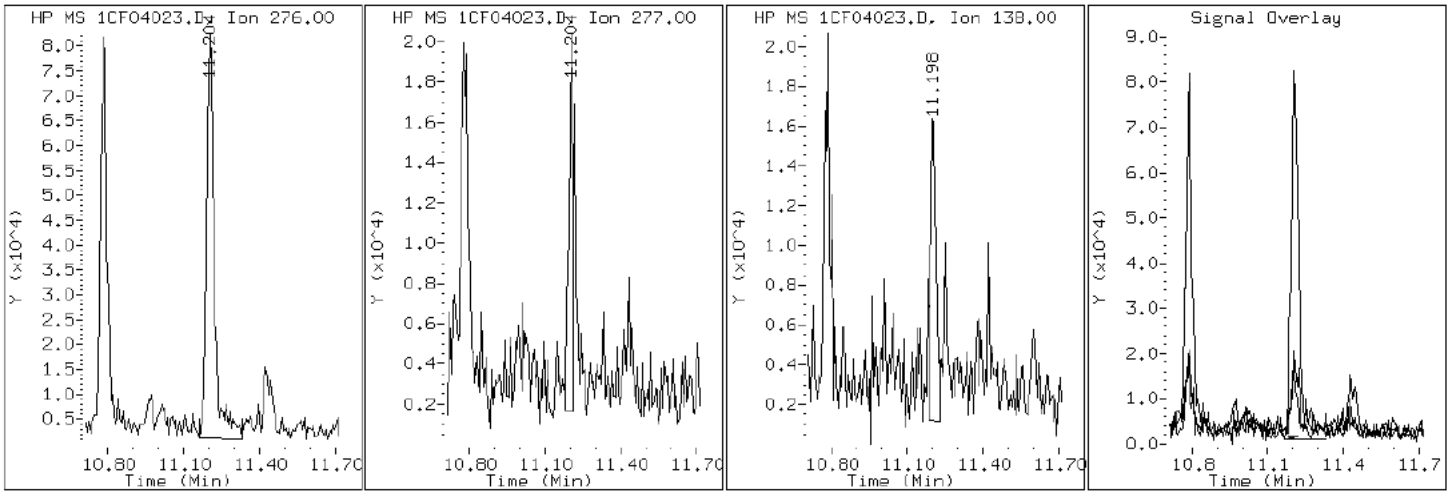
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



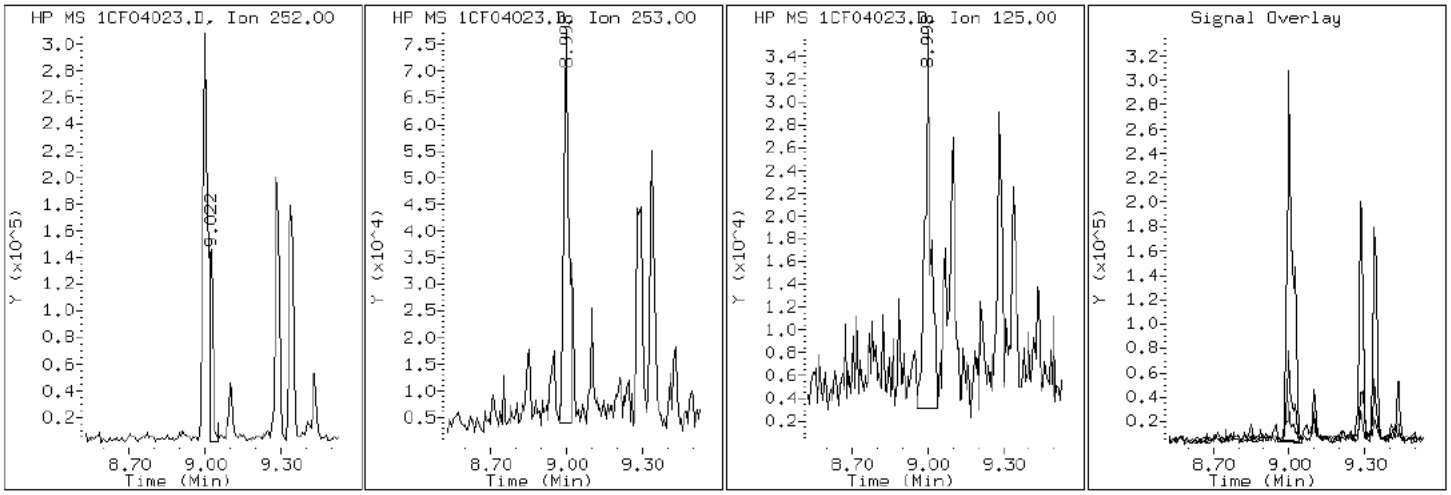
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



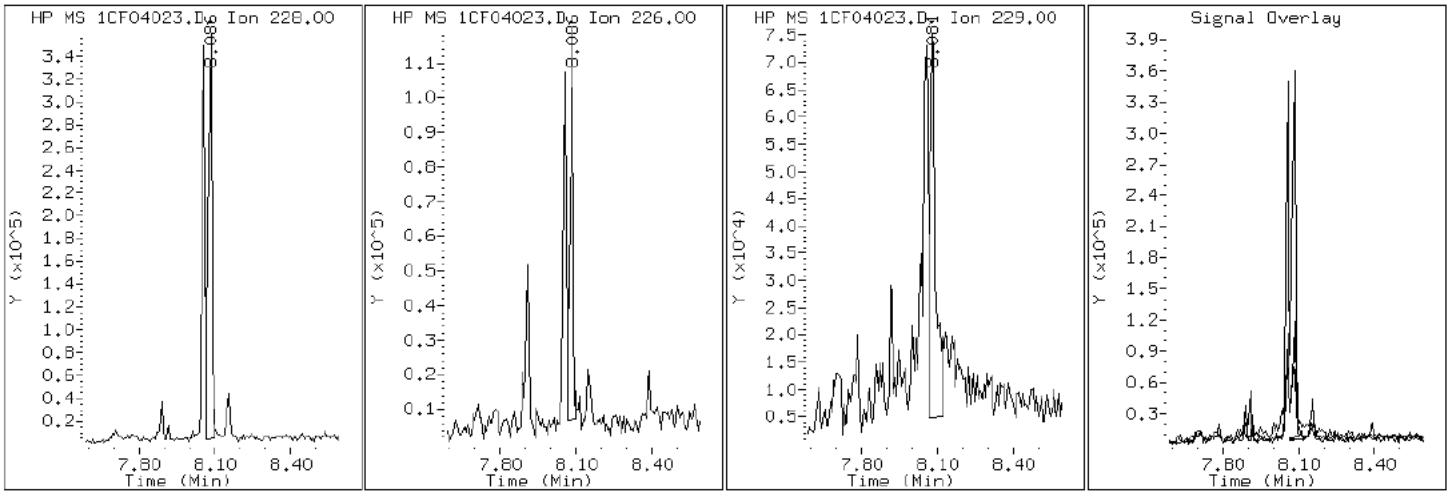
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

19 Chrysene



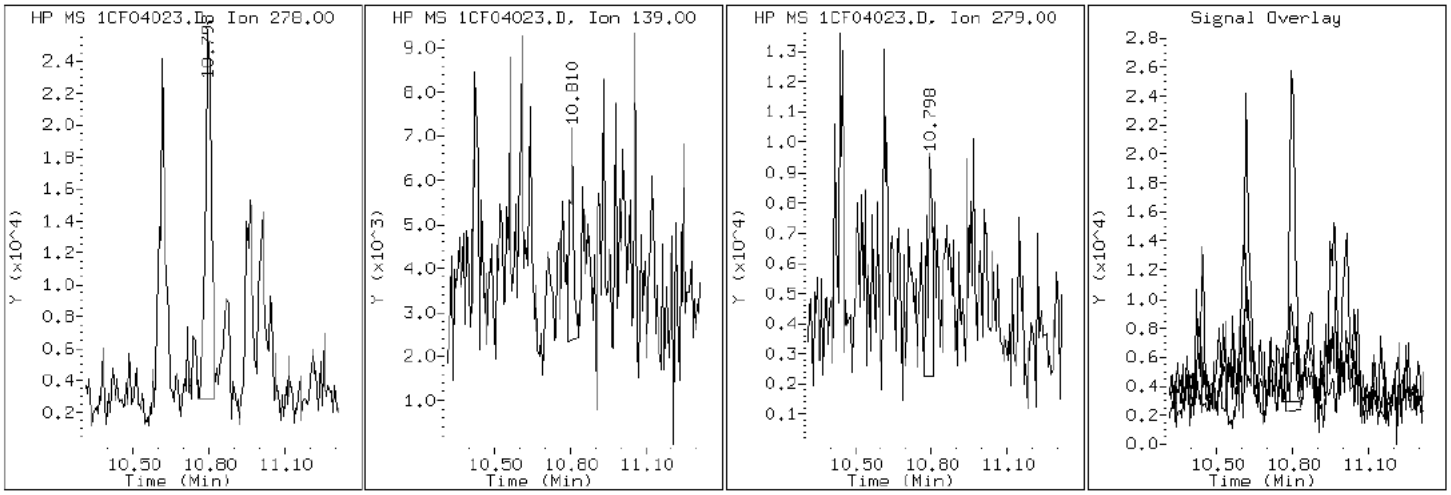
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



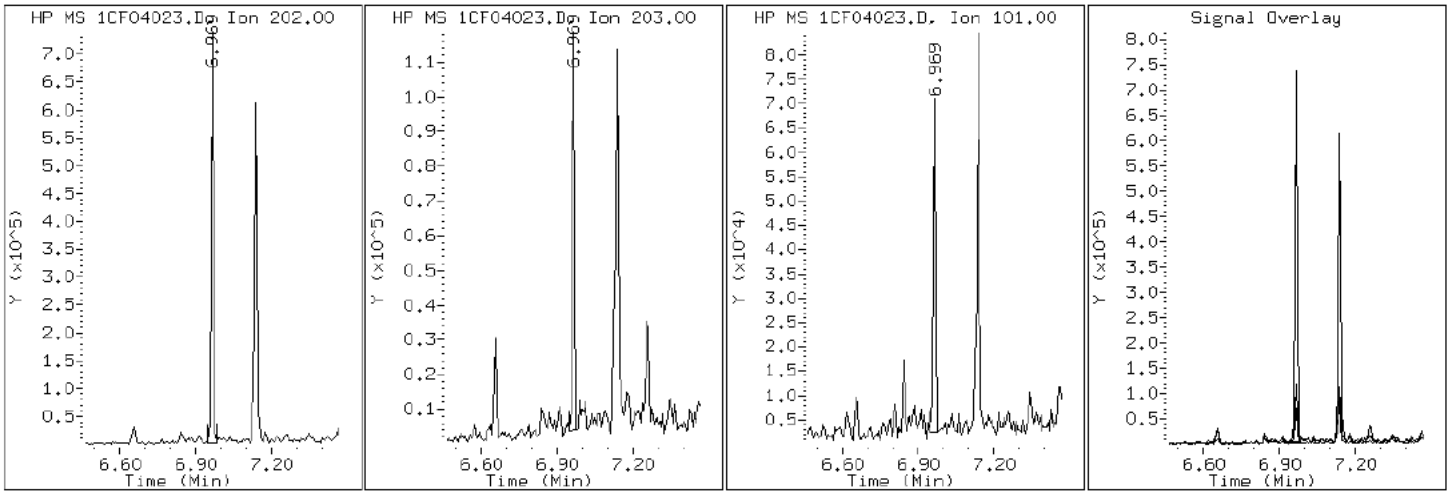
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

15 Fluoranthene



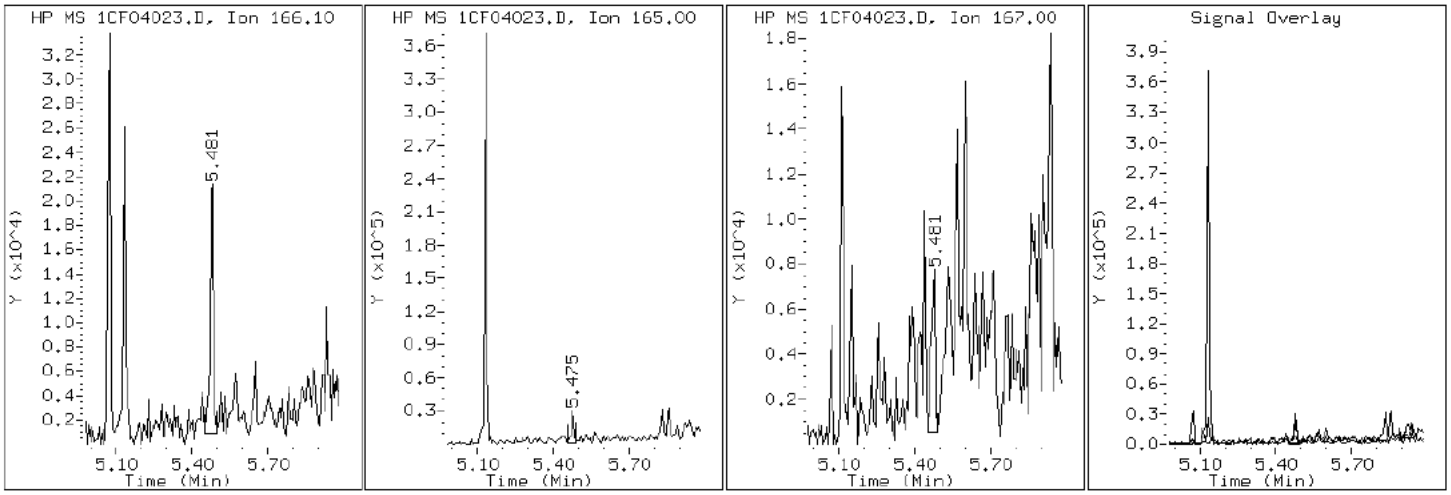
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

9 Fluorene



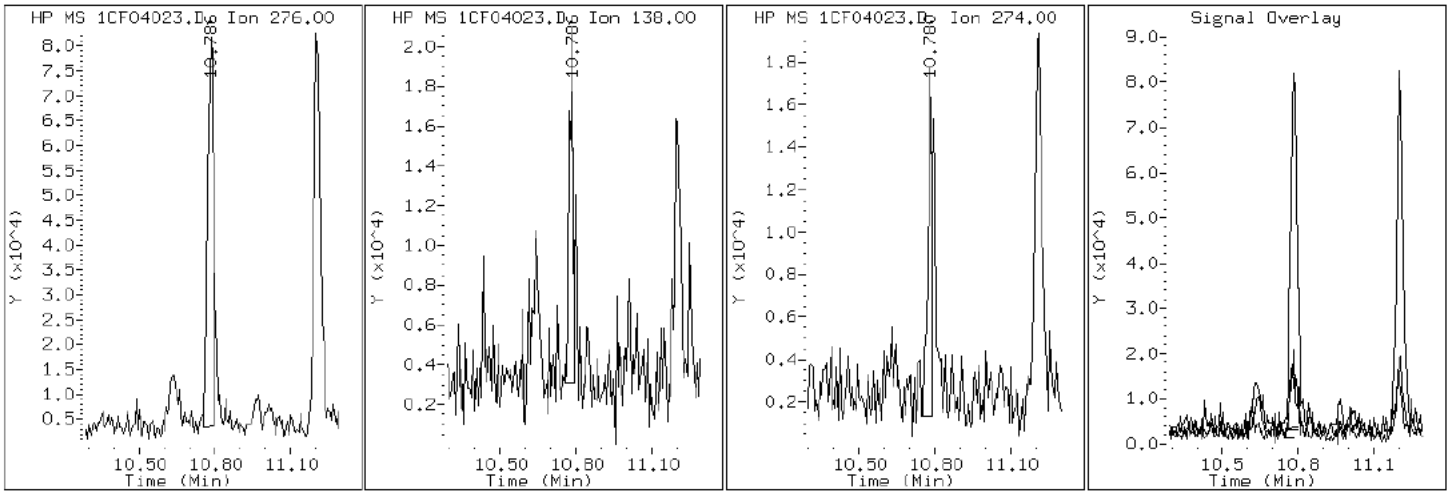
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

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



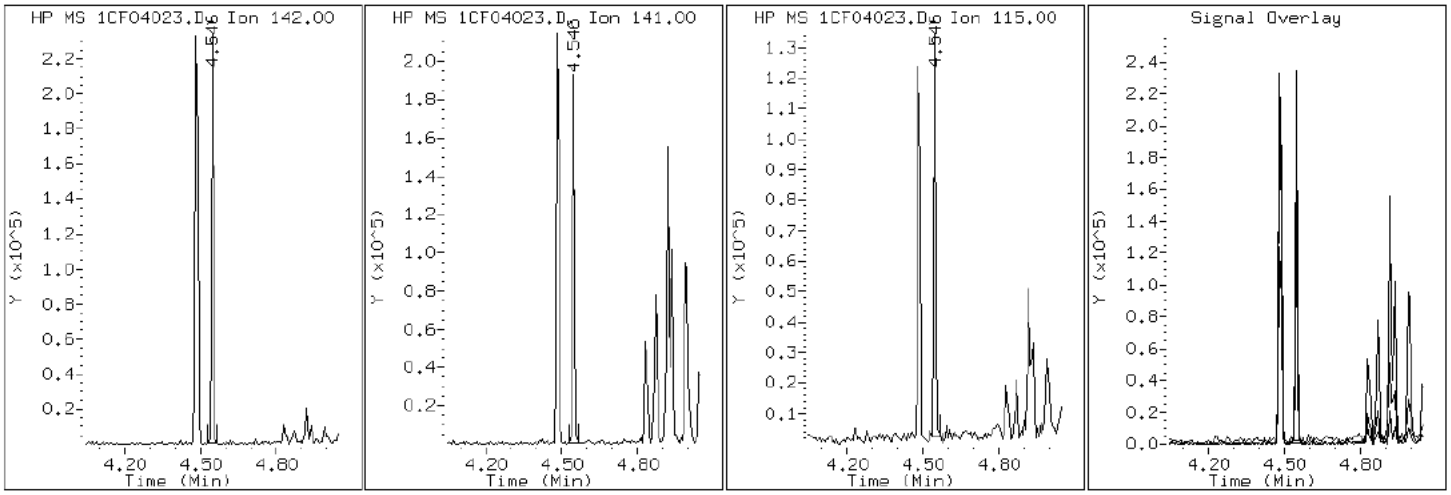
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

4 1-Methylnaphthalene



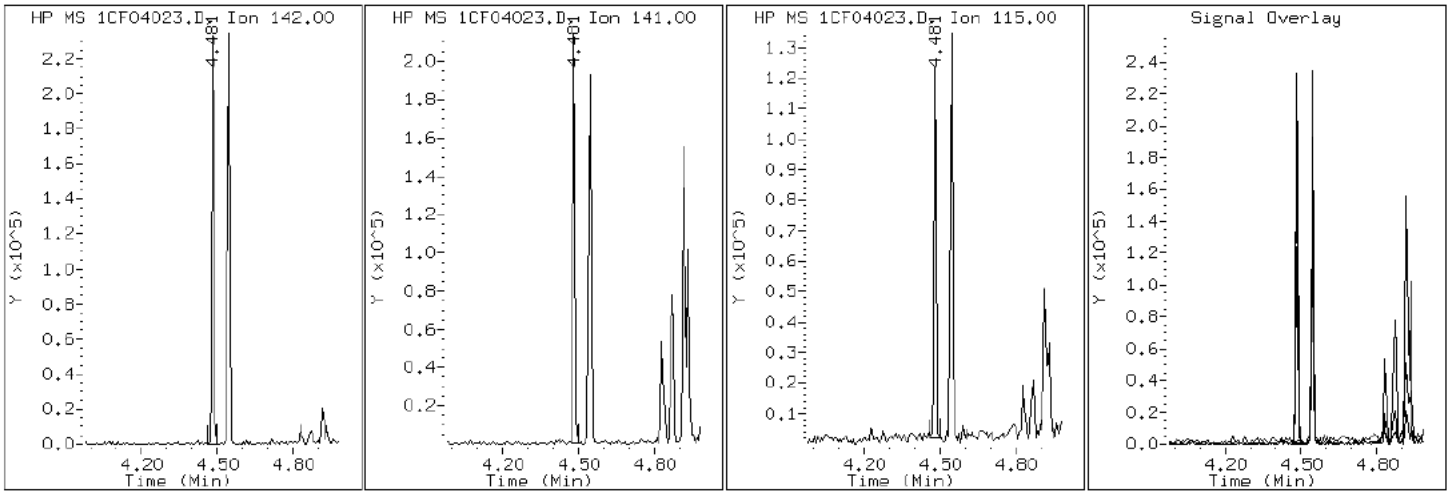
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

3 2-Methylnaphthalene



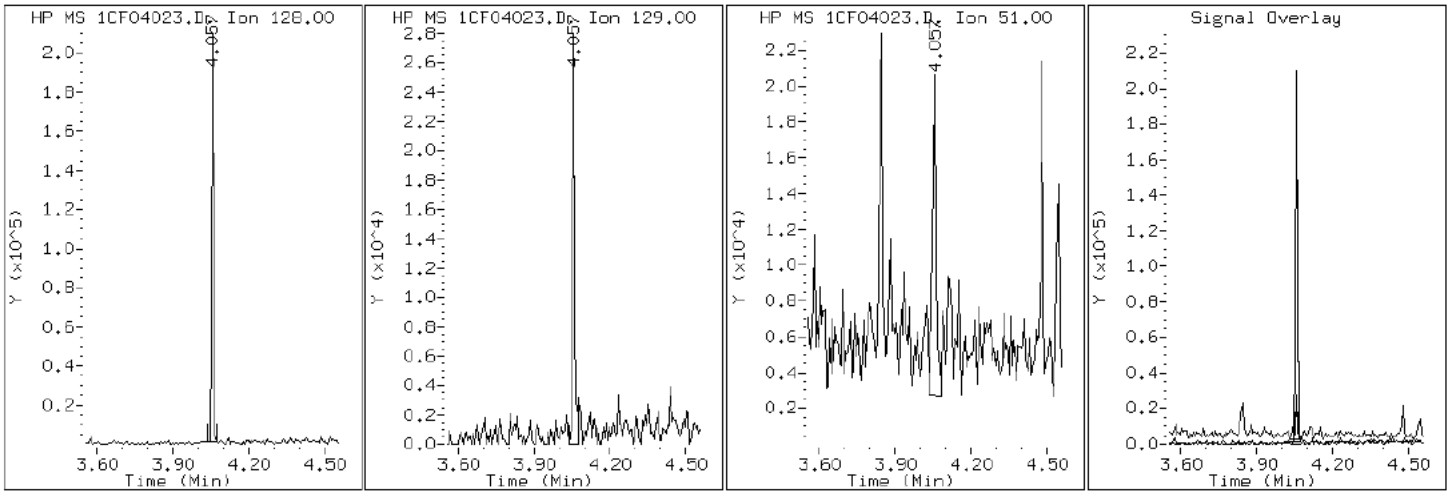
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

2 Naphthalene



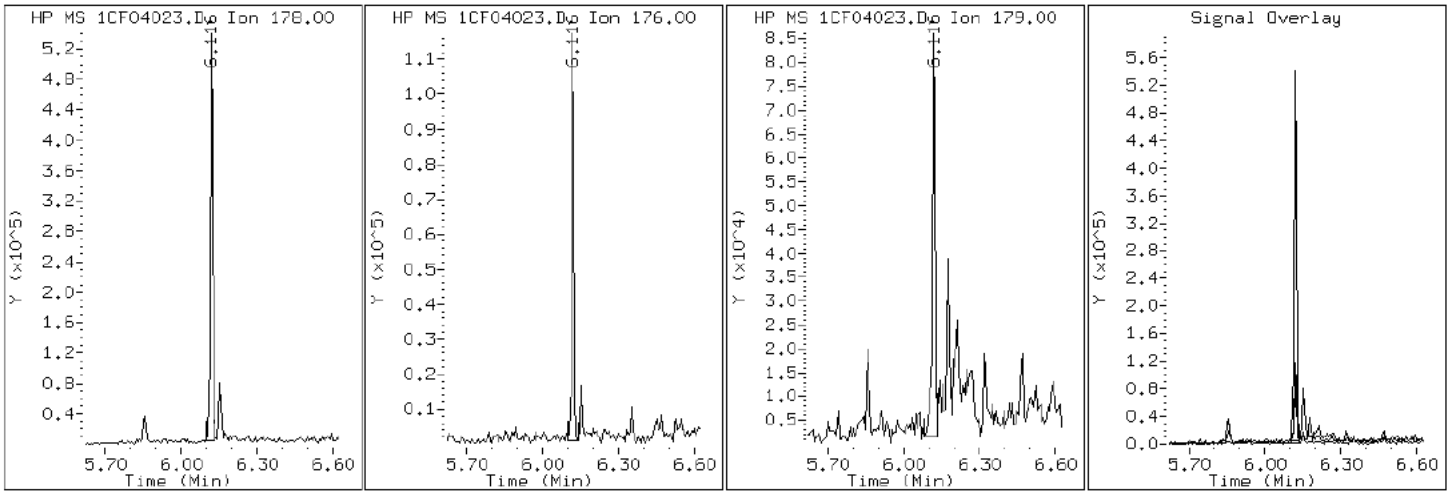
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

11 Phenanthrene



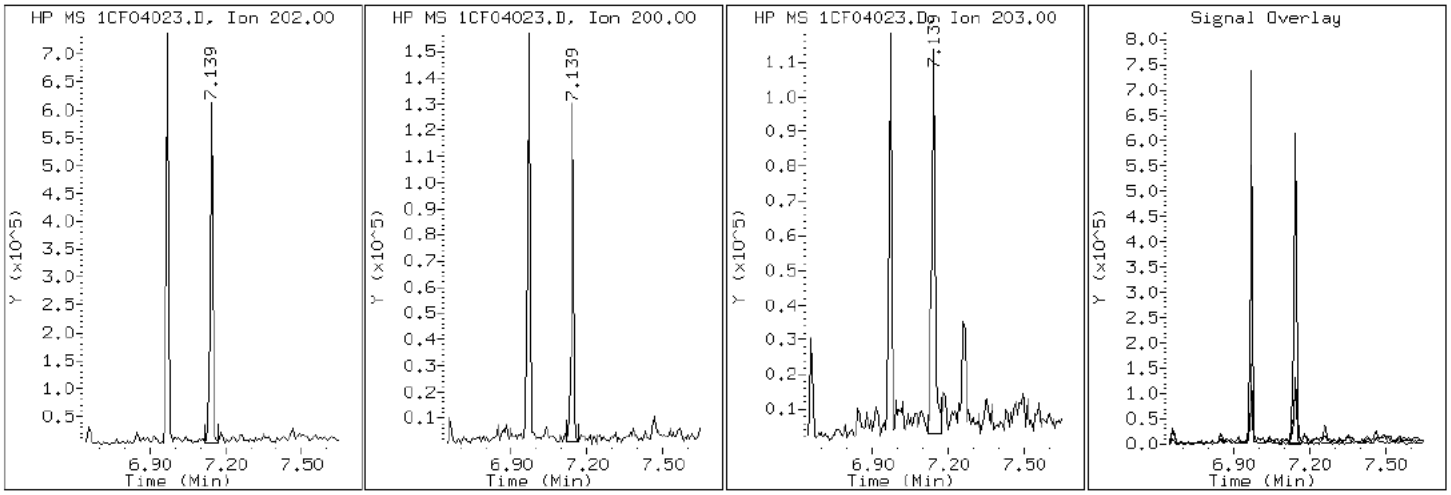
Data File: 1CF04023.D

Date: 04-JUN-2013 17:01

Client ID: CV0978C-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04023.D
Inj. Date and Time: 04-JUN-2013 17:01
Instrument ID: BSMC5973.i
Client ID: CV0978C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

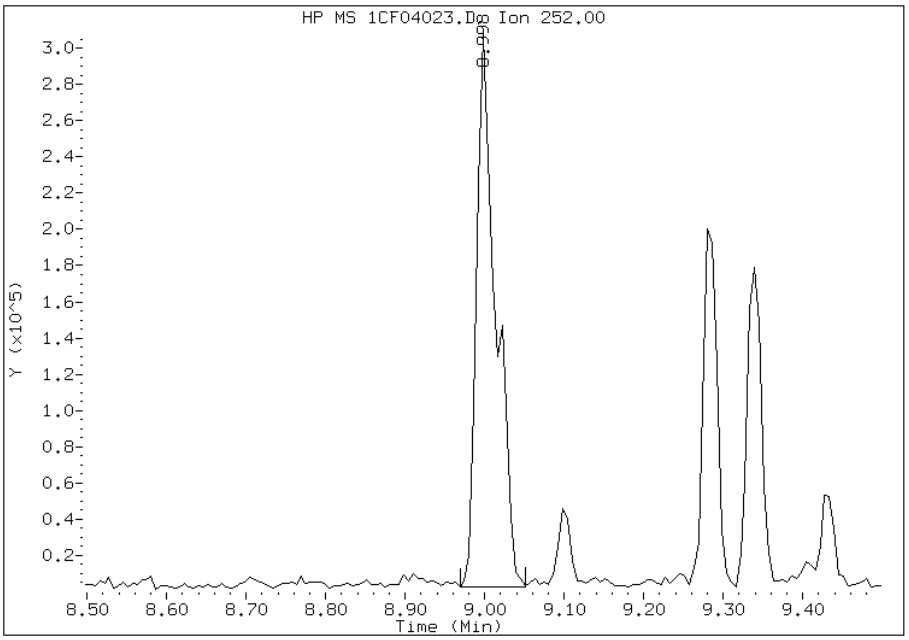
Processing Integration Results

RT: 9.00

Response: 518209

Amount: 6

Conc: 2302



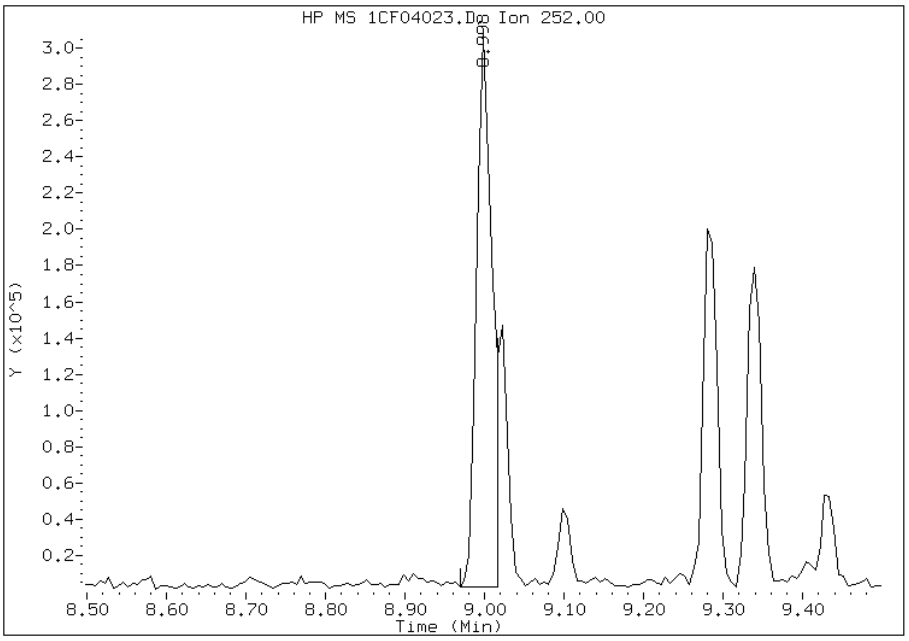
Manual Integration Results

RT: 9.00

Response: 414985

Amount: 5

Conc: 1843



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04023.D
Inj. Date and Time: 04-JUN-2013 17:01
Instrument ID: BSMC5973.i
Client ID: CV0978C-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

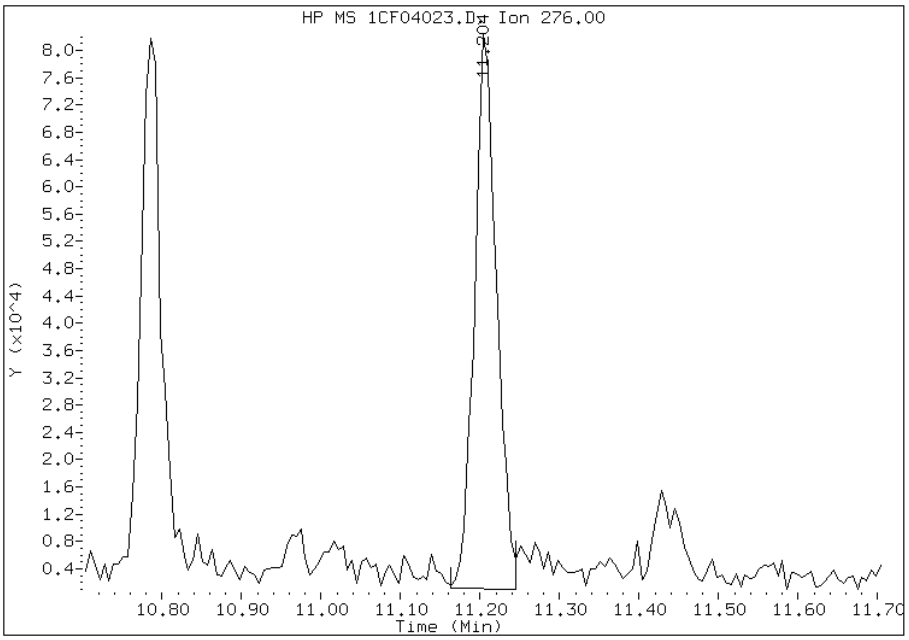
Processing Integration Results

RT: 11.20

Response: 156849

Amount: 2

Conc: 737



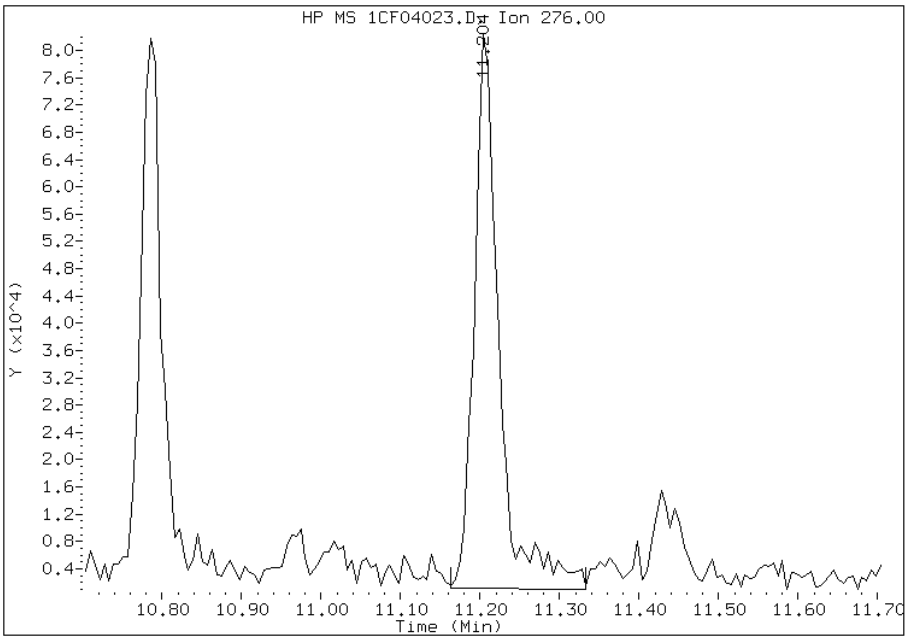
Manual Integration Results

RT: 11.20

Response: 176308

Amount: 2

Conc: 828



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04023.D
Inj. Date and Time: 04-JUN-2013 17:01
Instrument ID: BSMC5973.i
Client ID: CV0978C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

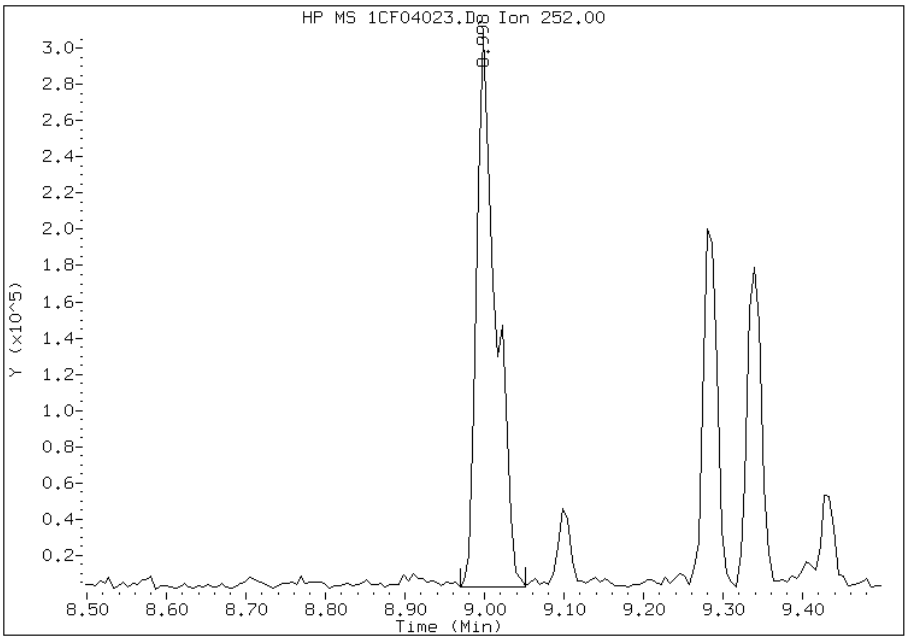
Processing Integration Results

RT: 9.00

Response: 519694

Amount: 6

Conc: 2067



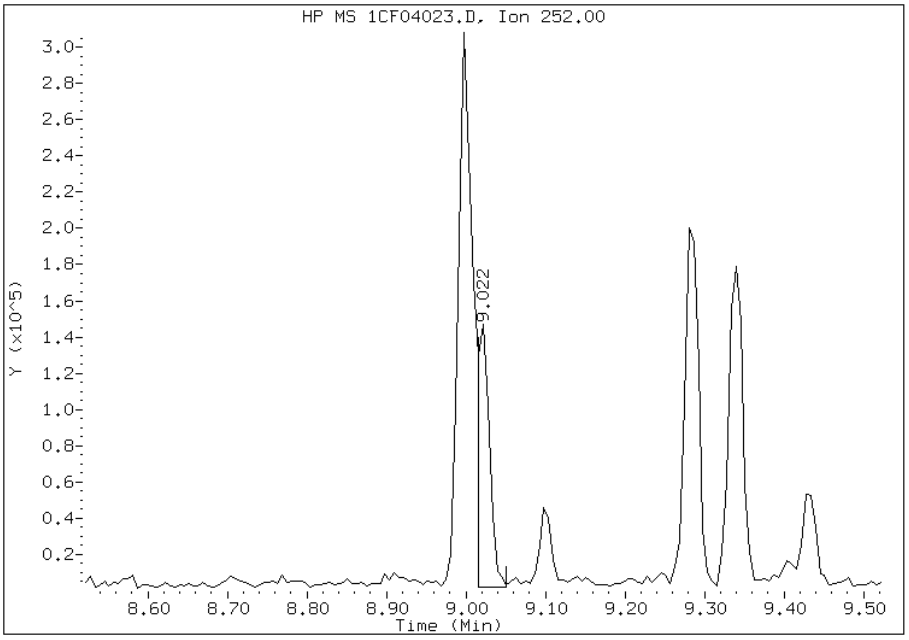
Manual Integration Results

RT: 9.02

Response: 149578

Amount: 2

Conc: 595



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04023.D
Inj. Date and Time: 04-JUN-2013 17:01
Instrument ID: BSMC5973.i
Client ID: CV0978C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

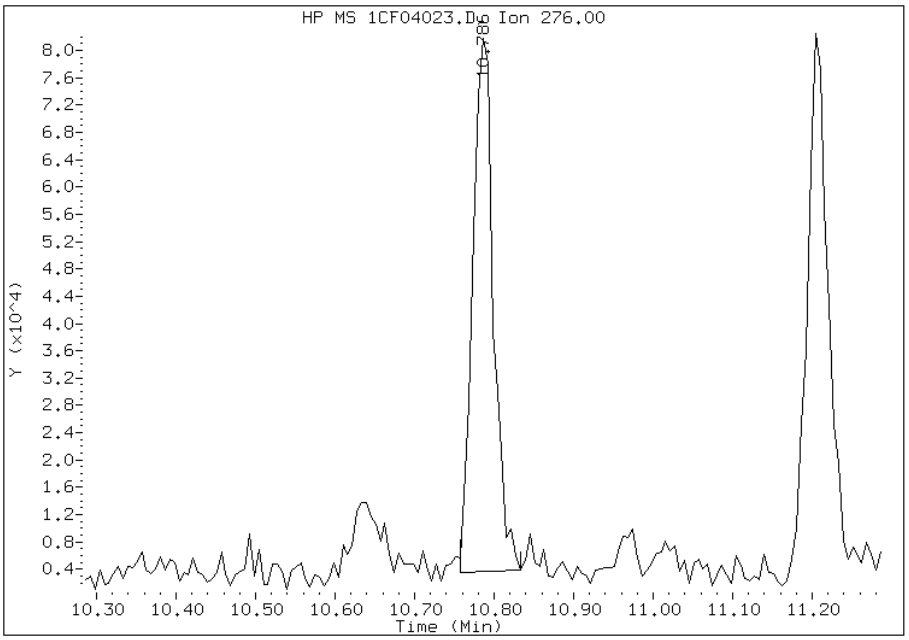
Processing Integration Results

RT: 10.79

Response: 140923

Amount: 2

Conc: 633



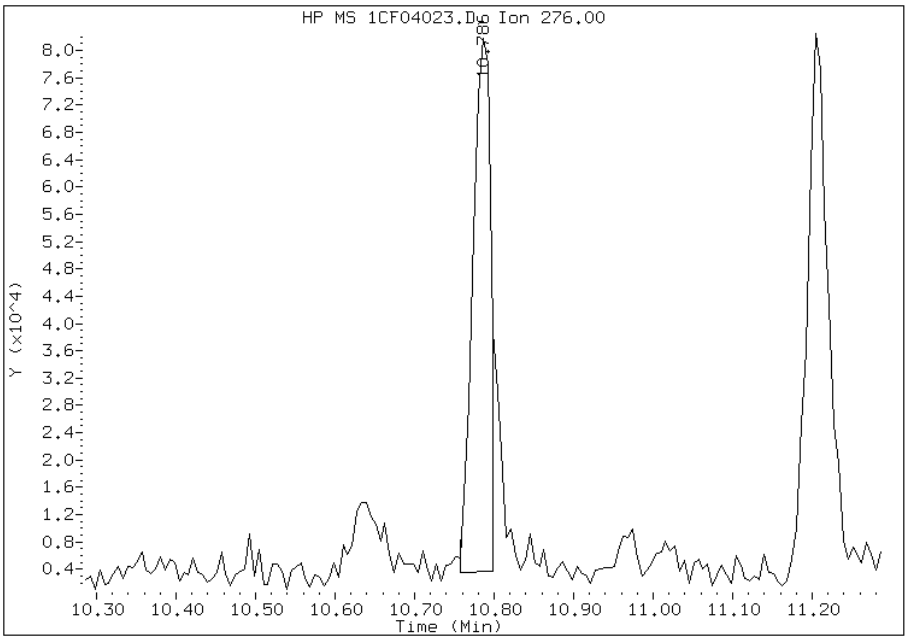
Manual Integration Results

RT: 10.79

Response: 121932

Amount: 2

Conc: 555



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978D-CS | Lab Sample ID: 680-90723-14

Matrix: Solid | Lab File ID: 1CF04024.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:30

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.98(g) | Date Analyzed: 06/04/2013 17:19

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	63	J	240	29
120-12-7	Anthracene	140		50	25
56-55-3	Benzo[a]anthracene	900		47	23
50-32-8	Benzo[a]pyrene	880		61	31
205-99-2	Benzo[b]fluoranthene	1600		72	36
191-24-2	Benzo[g,h,i]perylene	710		120	26
207-08-9	Benzo[k]fluoranthene	500		47	21
218-01-9	Chrysene	1200		53	27
53-70-3	Dibenz(a,h)anthracene	210		120	24
206-44-0	Fluoranthene	1400		120	24
86-73-7	Fluorene	68	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	490		120	42
90-12-0	1-Methylnaphthalene	430		240	26
91-57-6	2-Methylnaphthalene	510		240	42
91-20-3	Naphthalene	390		240	26
85-01-8	Phenanthrene	950		47	23
129-00-0	Pyrene	1400		120	22

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\1C060413.b\1CF04024.D
Lab Smp Id: 680-90723-A-14-A Client Smp ID: CV0978D-CS
Inj Date : 04-JUN-2013 17:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-14-a
Misc Info : 680-90723-A-14-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 24
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	32.093	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2484828	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1709888	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	2886932	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	77566	1.72480	678.2224
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	2944708	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3076887	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	69978	0.99795	392.4133
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	50620	1.30148	511.7642
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	41841	1.09340	429.9446
	5 Acenaphthylene	152	5.045	5.045	(0.983)	10453	0.15947	62.7052
	9 Fluorene	166	5.474	5.480	(1.066)	9090	0.17331	68.1483(Q)
	11 Phenanthrene	178	6.115	6.121	(1.002)	205215	2.40602	946.0929
	12 Anthracene	178	6.151	6.157	(1.008)	27311	0.34563	135.9083
	13 Carbazole	167	6.257	6.257	(1.025)	26891	0.47921	188.4335

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	309270	3.54748	1394.9337
16 Pyrene	202	7.139	7.145	(0.885)	281209	3.53650	1390.6149
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	186143	2.29243	901.4275
19 Chrysene	228	8.086	8.092	(1.003)	255577	3.12623	1229.2896
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	309532	4.09447	1610.0210
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	108245	1.28200	504.1062
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	164477	2.22819	876.1655
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	88834	1.23792	486.7726(M)
25 Dibenzo(a,h)anthracene	278	10.798	10.815	(1.148)	34949	0.53217	209.2571
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	128310	1.79503	705.8370(M)

QC Flag Legend

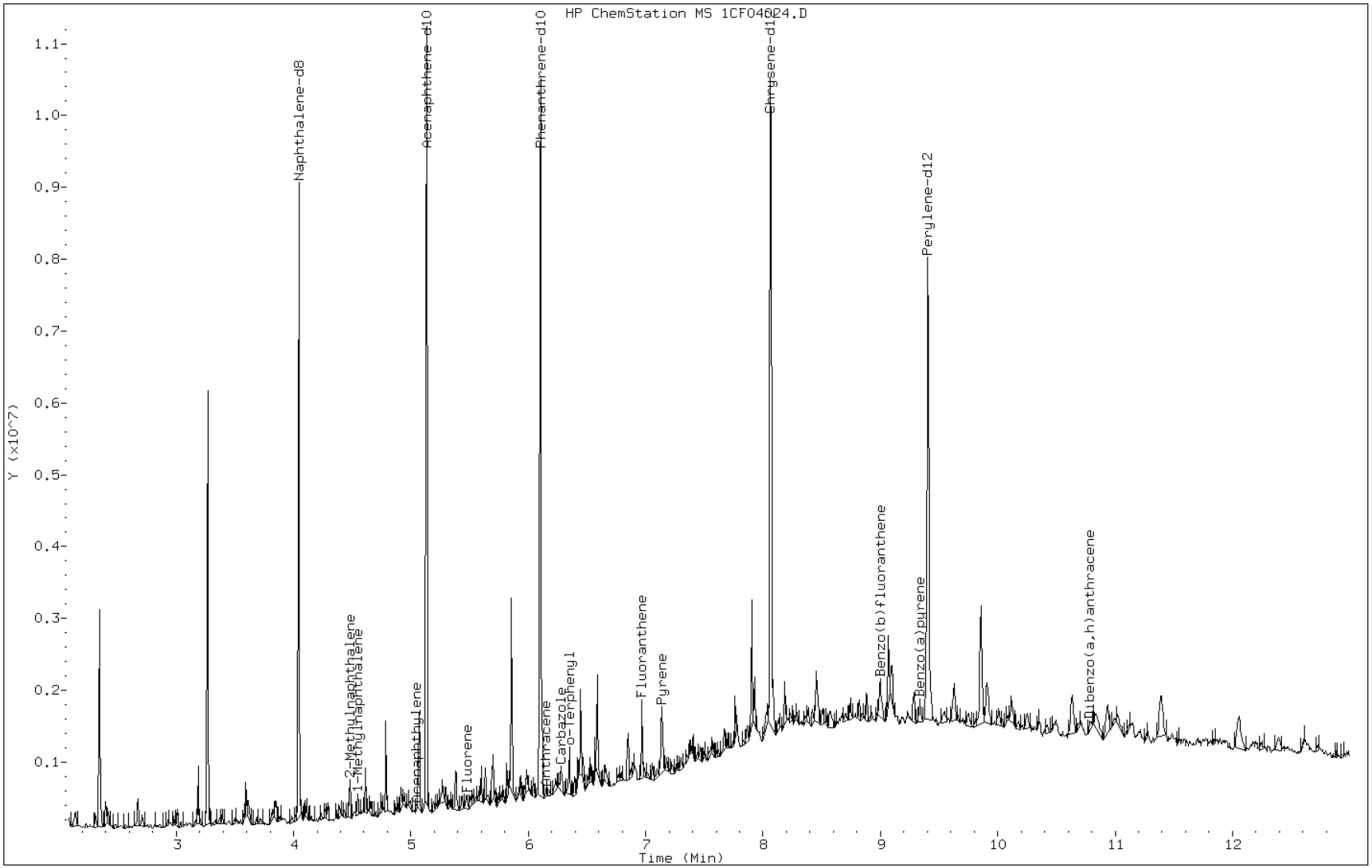
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC



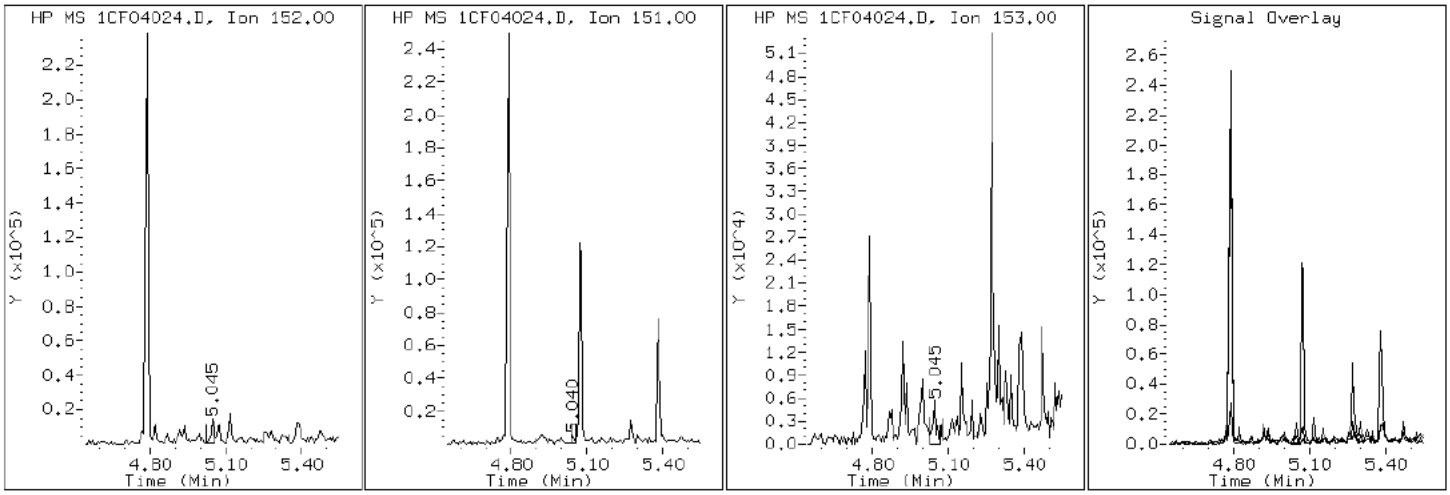
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

5 Acenaphthylene



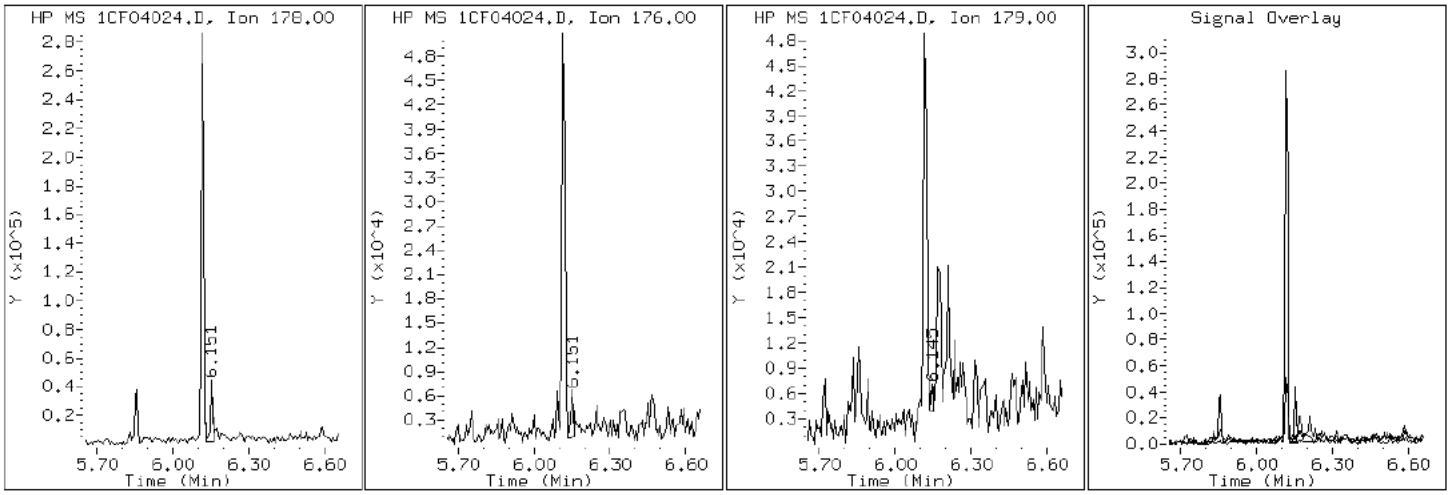
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

12 Anthracene



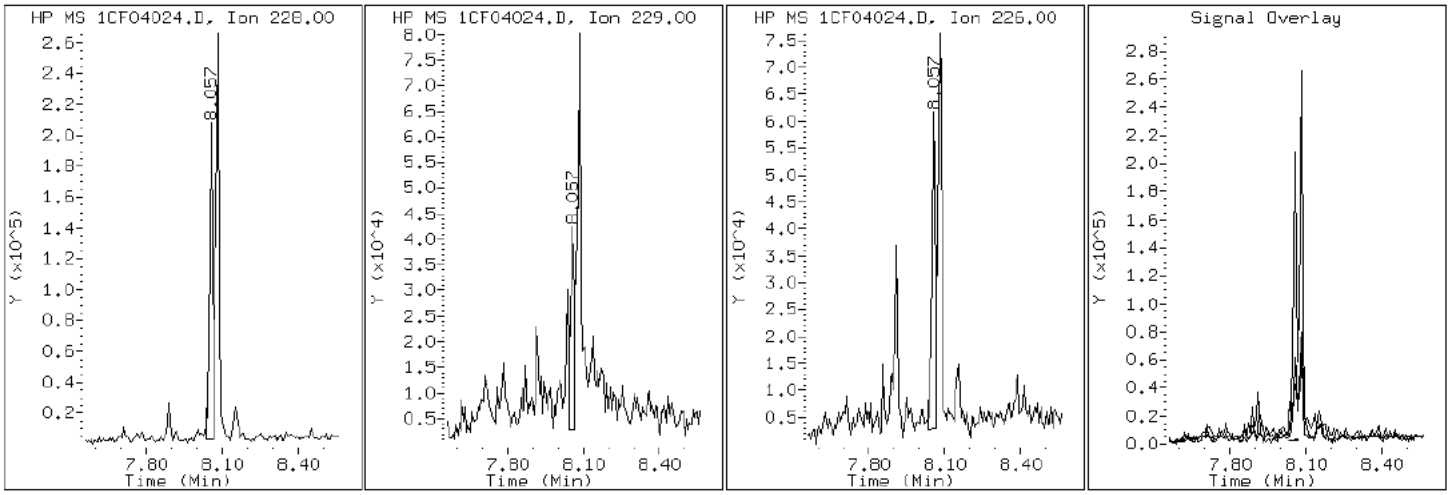
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

17 Benzo(a)anthracene



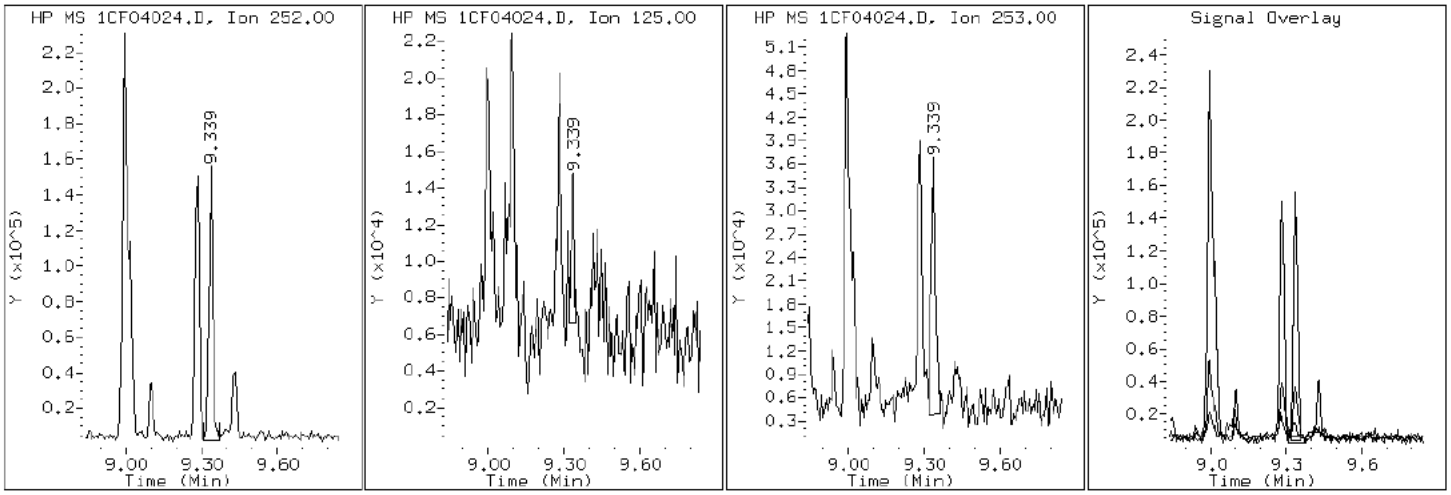
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

22 Benzo(a)pyrene



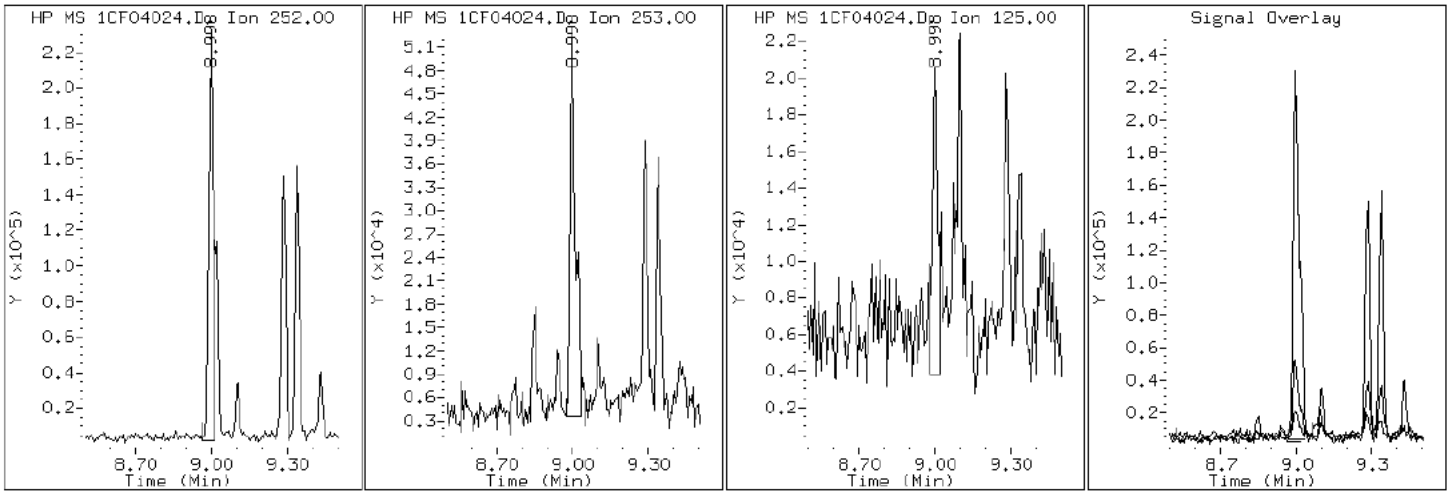
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



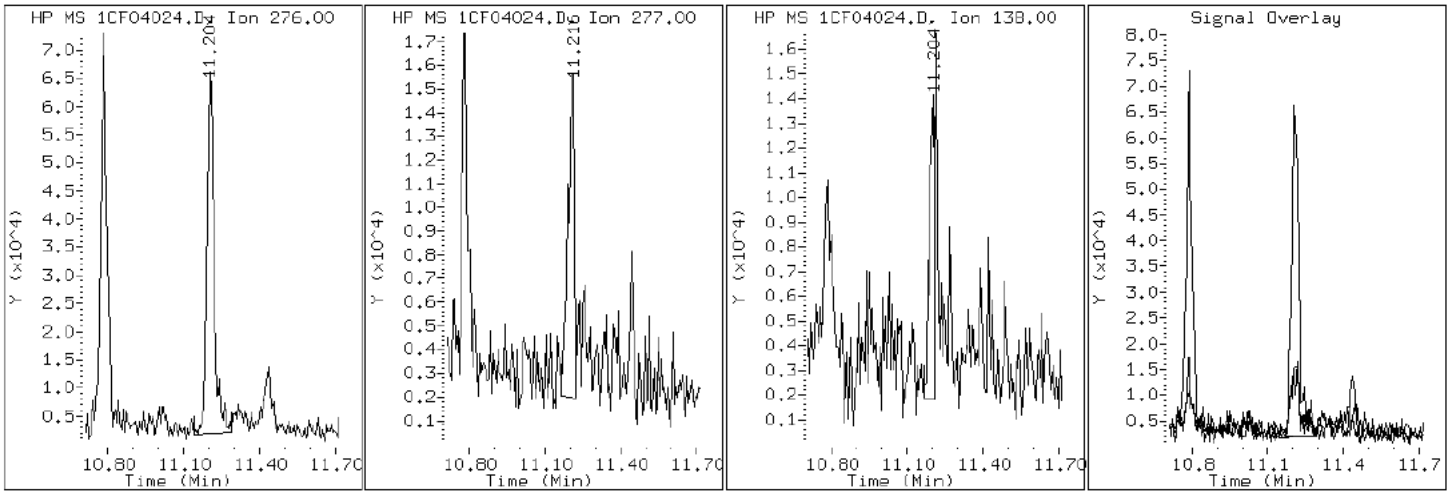
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



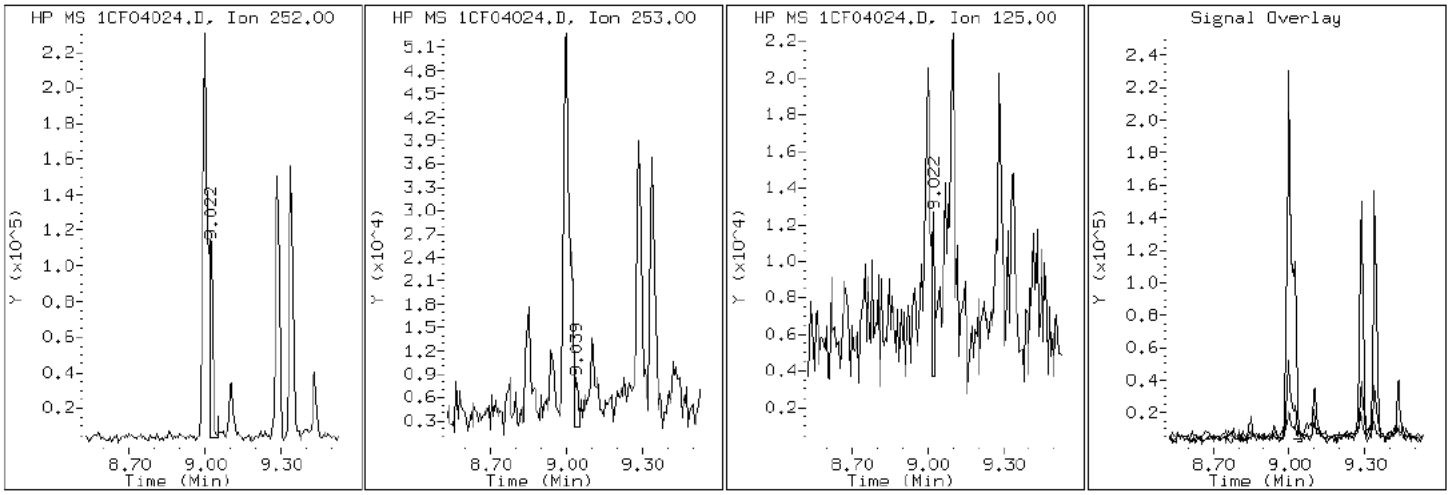
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



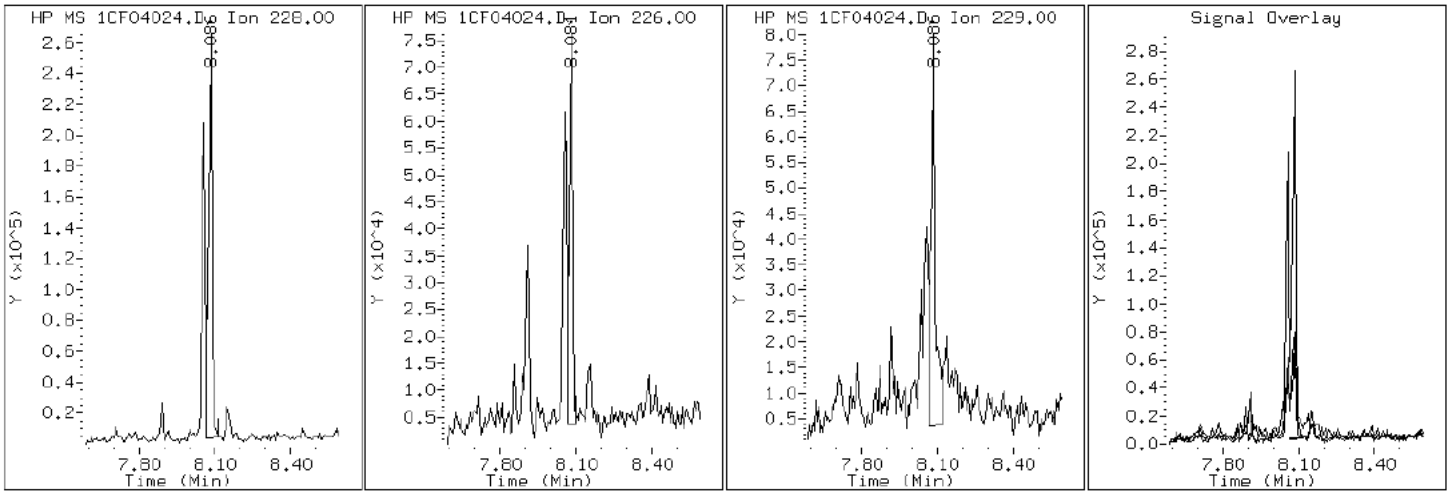
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

19 Chrysene



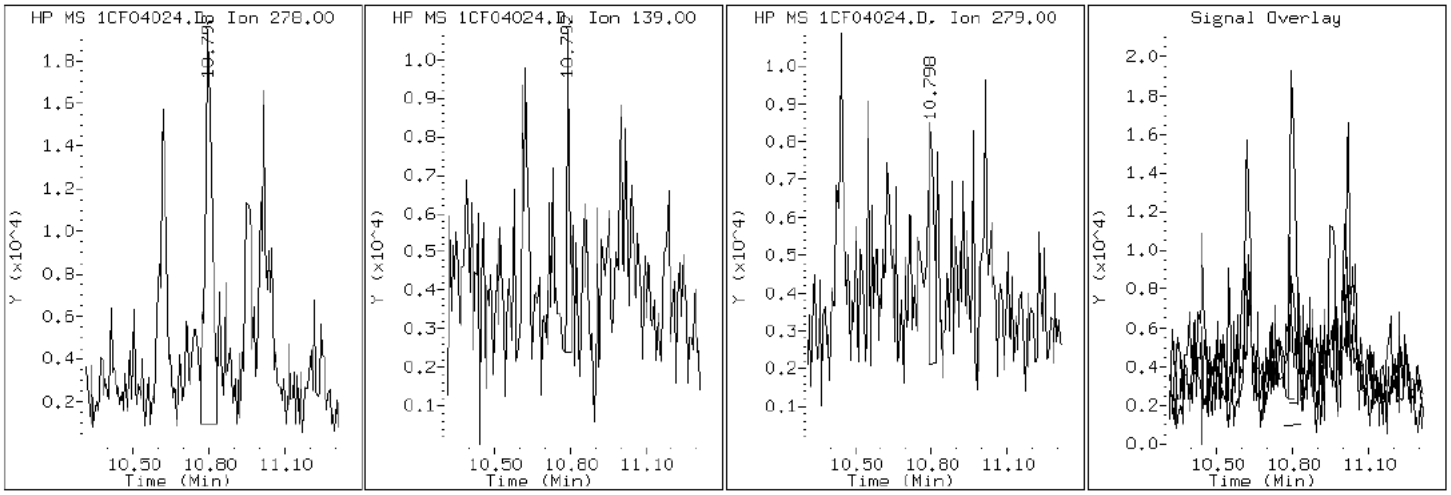
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



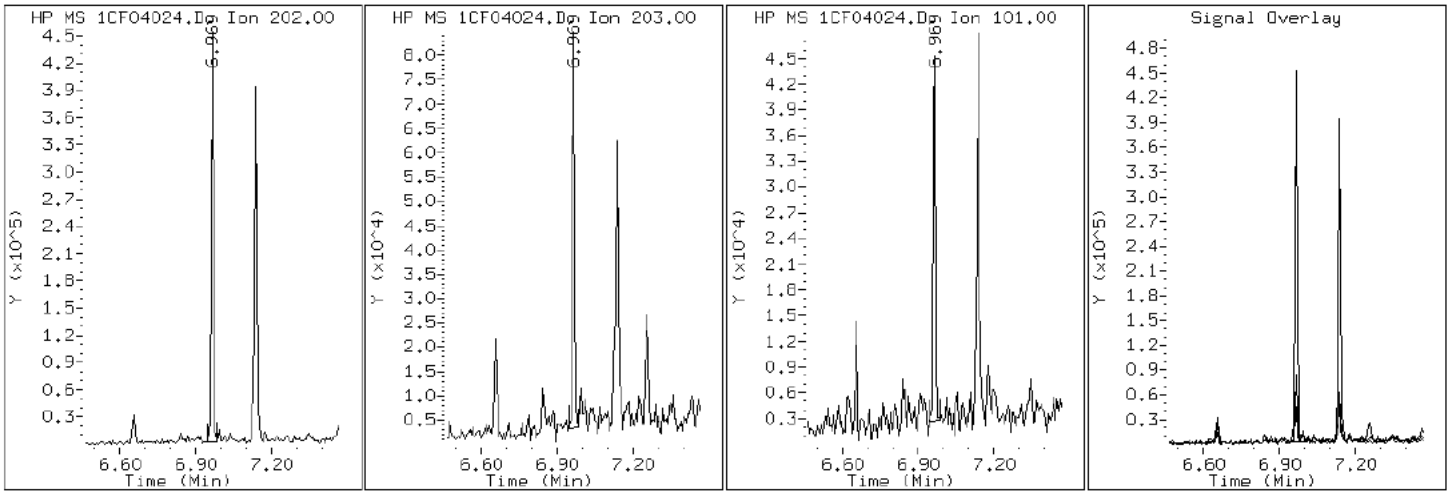
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

15 Fluoranthene



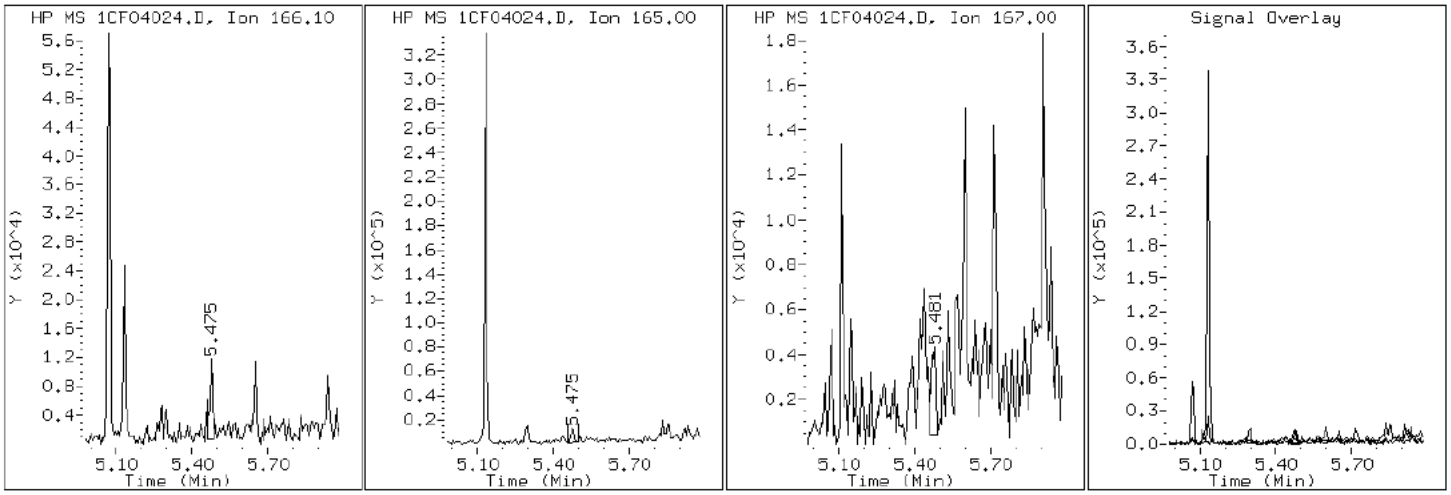
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

9 Fluorene



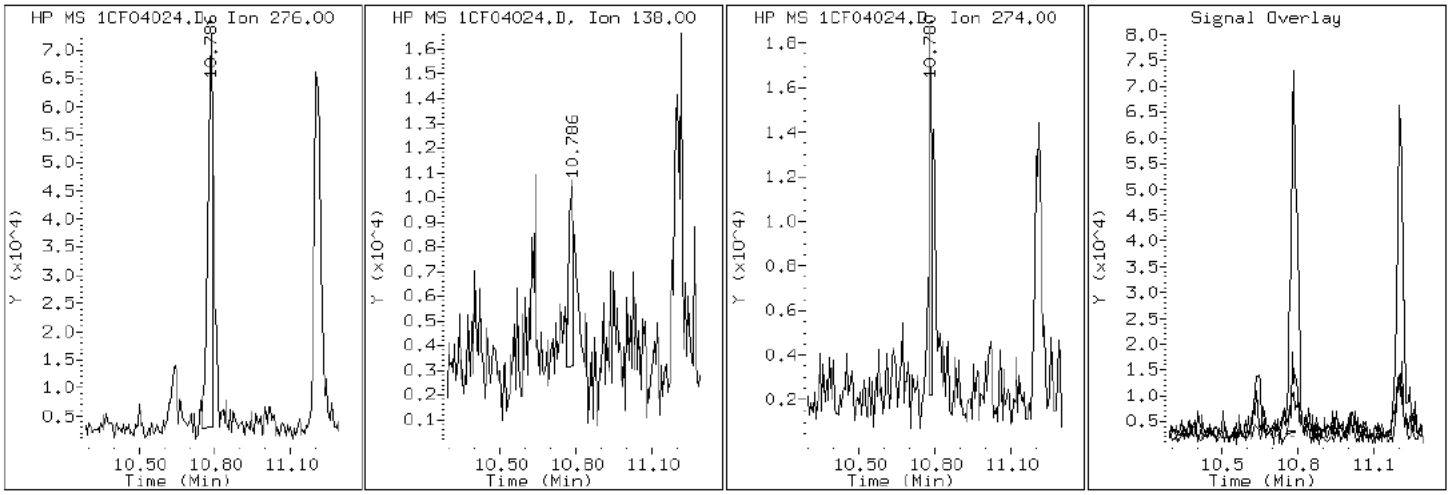
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

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



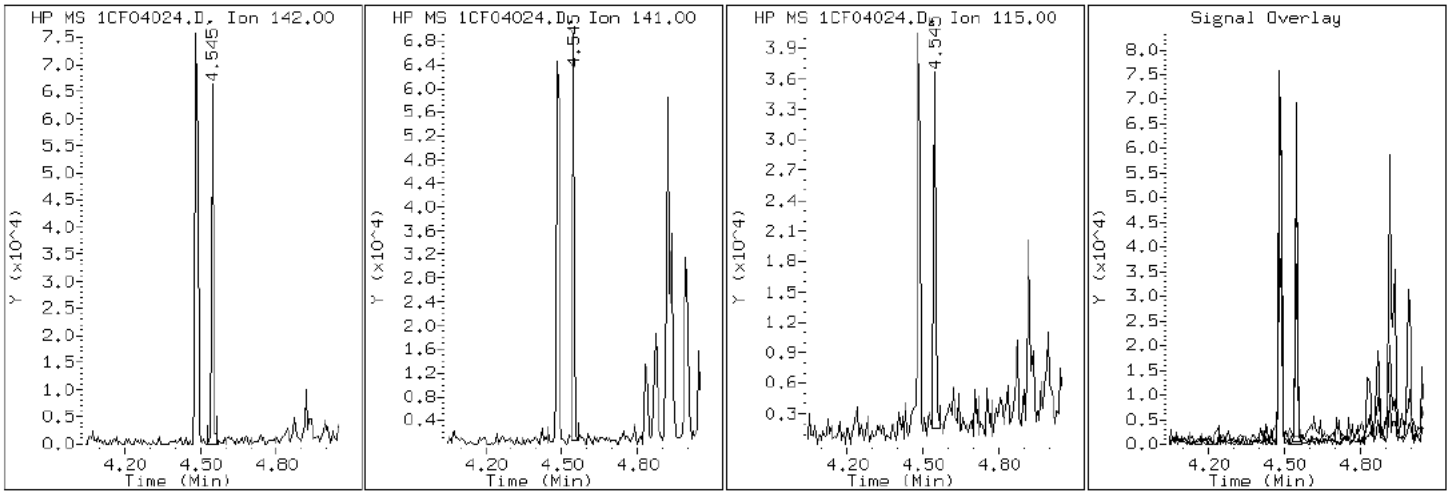
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

4 1-Methylnaphthalene



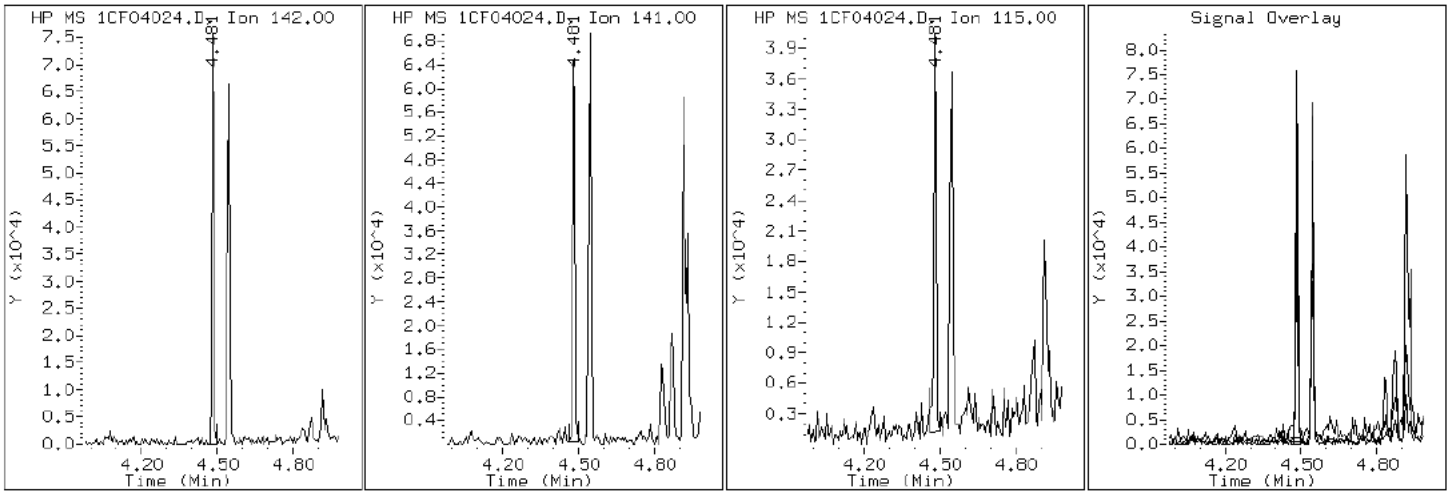
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

3 2-Methylnaphthalene



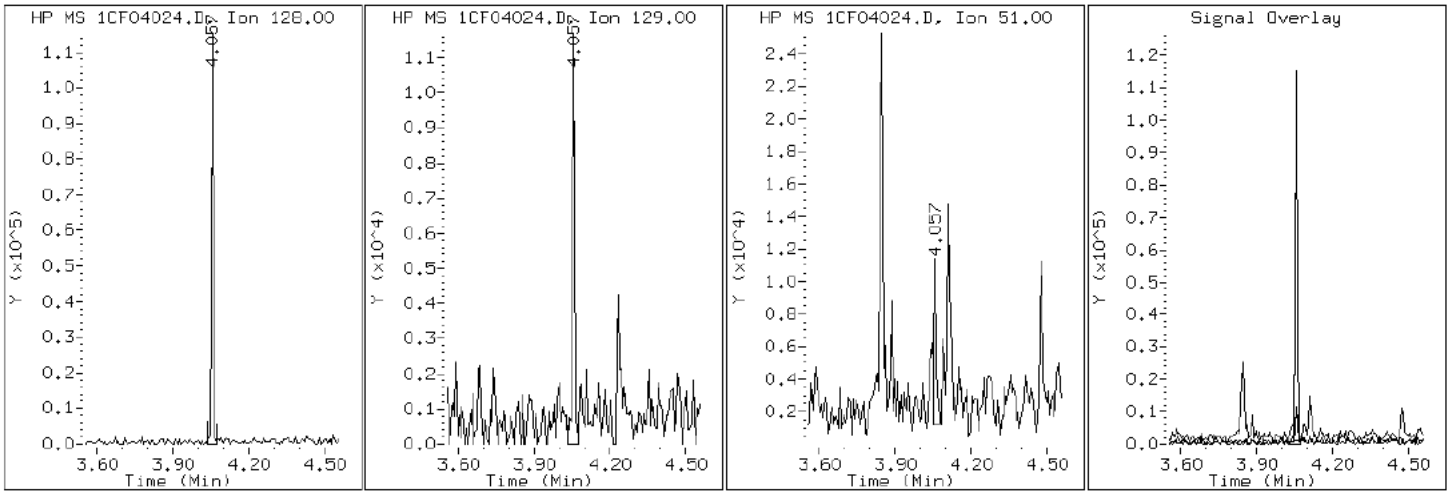
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

2 Naphthalene



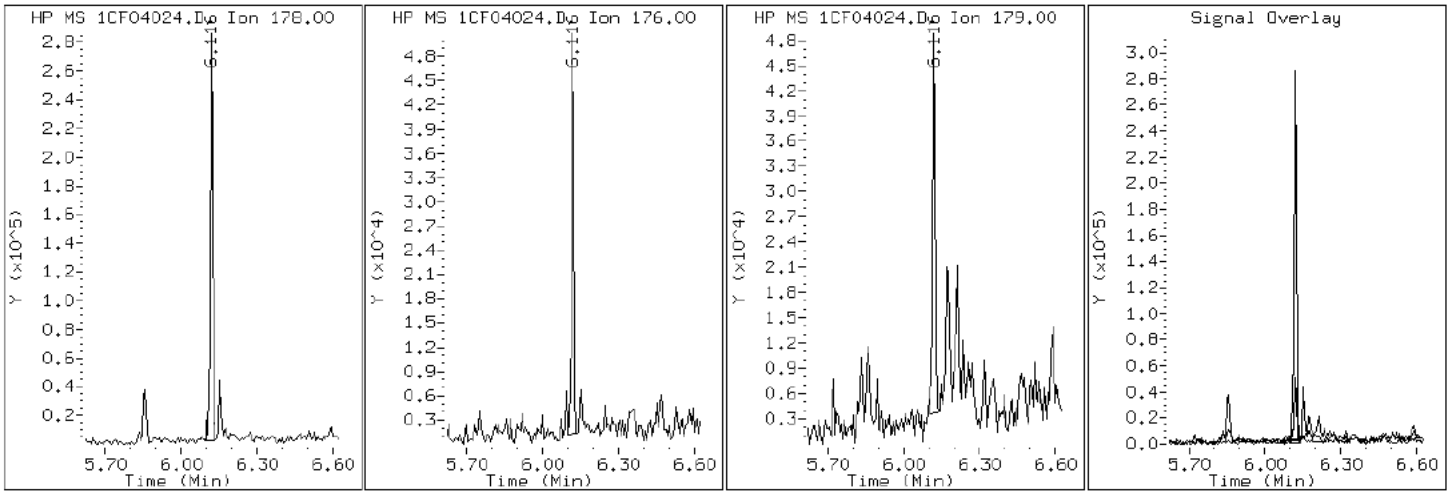
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

11 Phenanthrene



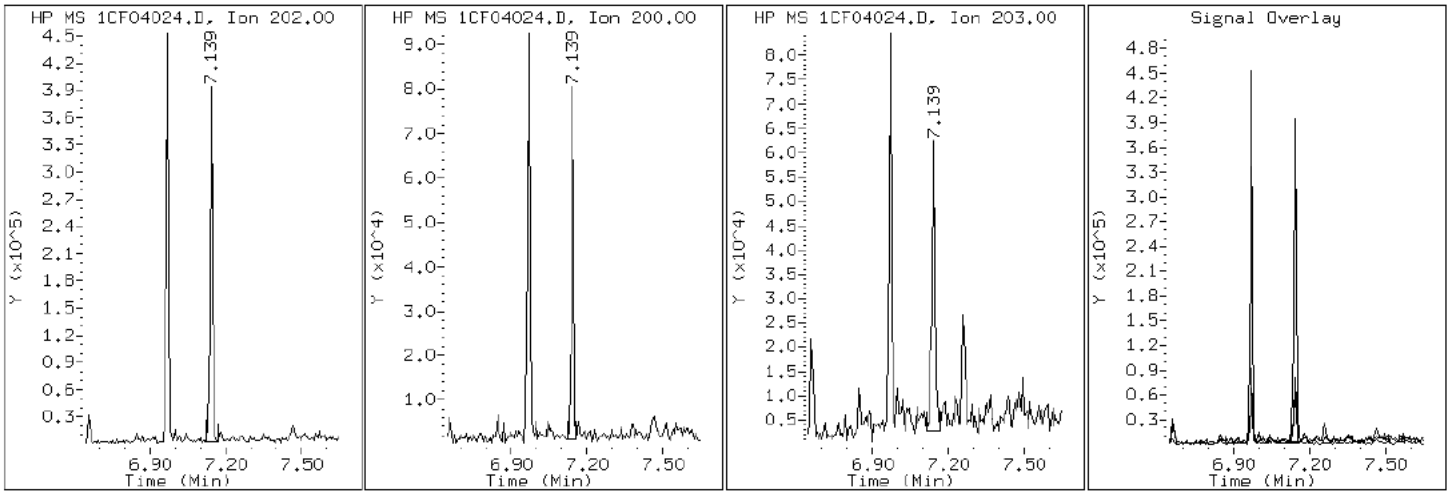
Data File: 1CF04024.D

Date: 04-JUN-2013 17:19

Client ID: CV0978D-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04024.D
Inj. Date and Time: 04-JUN-2013 17:19
Instrument ID: BSMC5973.i
Client ID: CV0978D-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

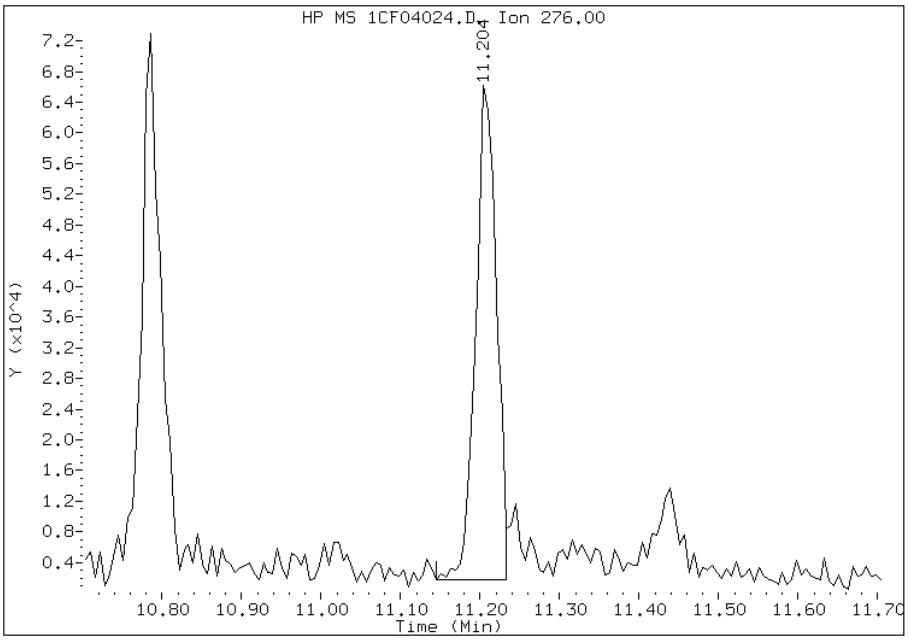
Processing Integration Results

RT: 11.20

Response: 116638

Amount: 2

Conc: 642



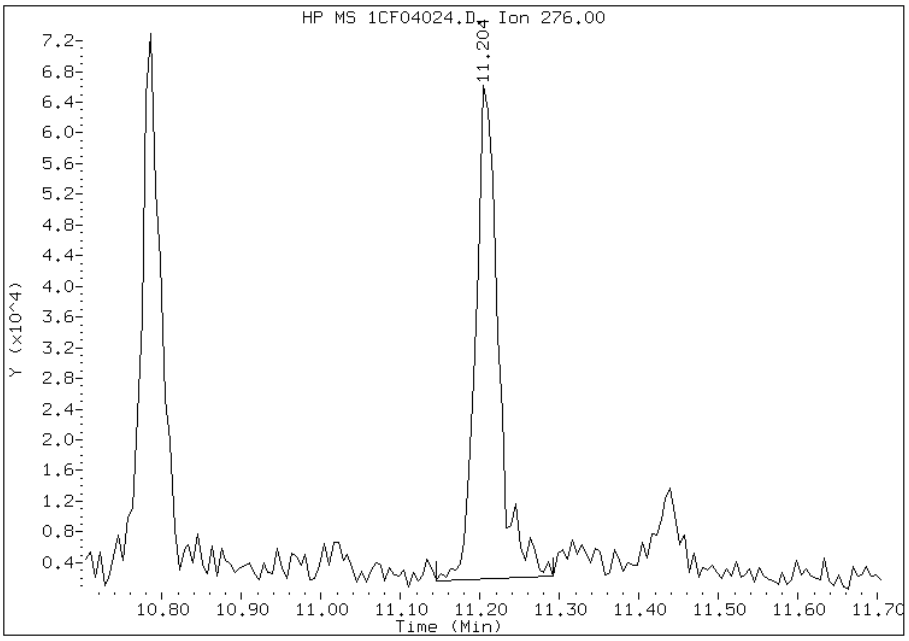
Manual Integration Results

RT: 11.20

Response: 128310

Amount: 2

Conc: 706



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04024.D
Inj. Date and Time: 04-JUN-2013 17:19
Instrument ID: BSMC5973.i
Client ID: CV0978D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

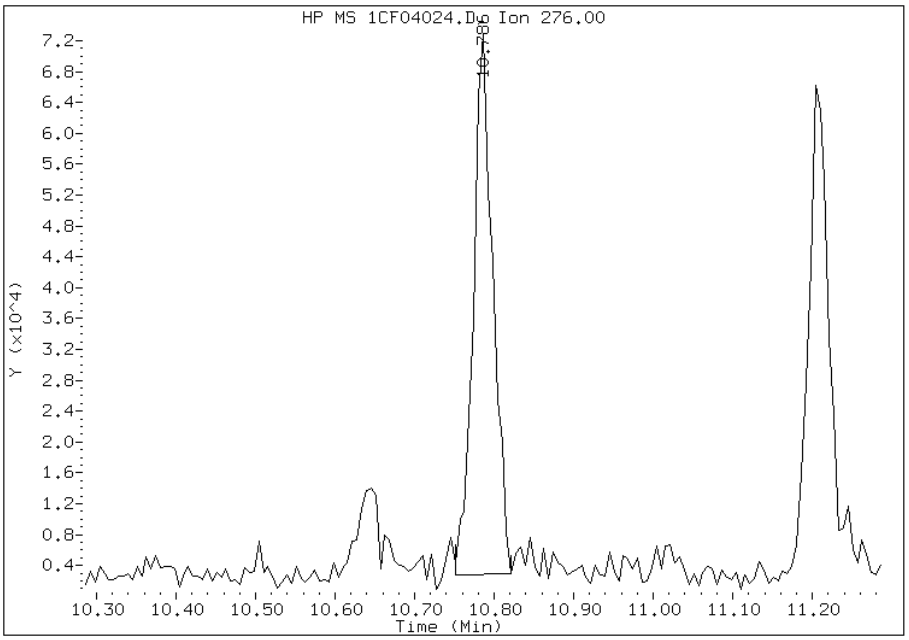
Processing Integration Results

RT: 10.79

Response: 118918

Amount: 2

Conc: 631



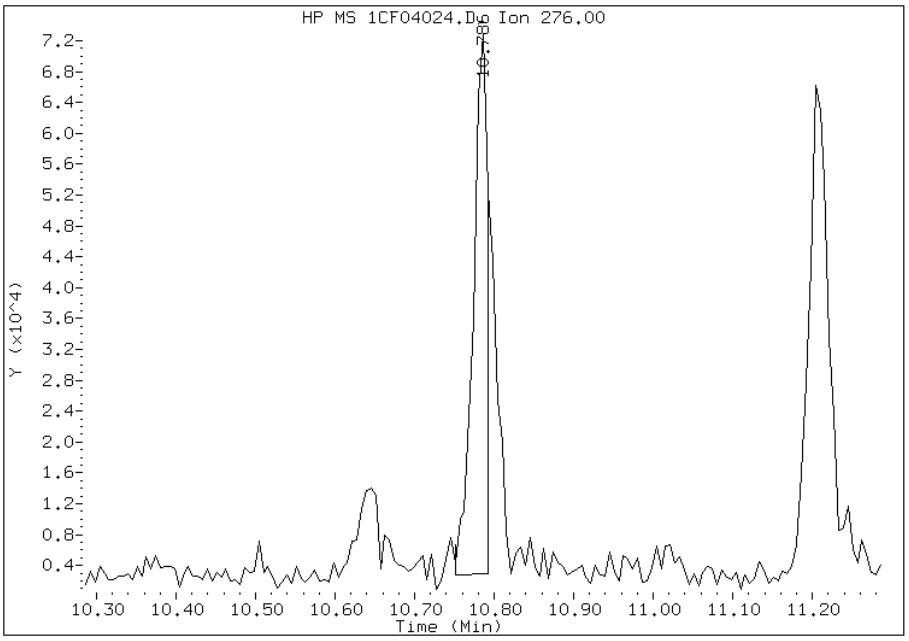
Manual Integration Results

RT: 10.79

Response: 88834

Amount: 1

Conc: 487



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978E-CS | Lab Sample ID: 680-90723-15

Matrix: Solid | Lab File ID: 1CF04025.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:45

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.19(g) | Date Analyzed: 06/04/2013 17:38

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

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

% Moisture: 26.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	64	J	210	27
120-12-7	Anthracene	200		45	22
56-55-3	Benzo[a]anthracene	1300		43	21
50-32-8	Benzo[a]pyrene	1300		56	28
205-99-2	Benzo[b]fluoranthene	2400		65	33
191-24-2	Benzo[g,h,i]perylene	940		110	24
207-08-9	Benzo[k]fluoranthene	790		43	19
218-01-9	Chrysene	1600		48	24
53-70-3	Dibenz(a,h)anthracene	310		110	22
206-44-0	Fluoranthene	2600		110	21
86-73-7	Fluorene	68	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	800		110	38
90-12-0	1-Methylnaphthalene	200	J	210	24
91-57-6	2-Methylnaphthalene	250		210	38
91-20-3	Naphthalene	160	J	210	24
85-01-8	Phenanthrene	1200		43	21
129-00-0	Pyrene	2400		110	20

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\1C060413.b\1CF04025.D
Lab Smp Id: 680-90723-A-15-A Client Smp ID: CV0978E-CS
Inj Date : 04-JUN-2013 17:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-15-a
Misc Info : 680-90723-A-15-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 25
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	26.196	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2845188	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1969582	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3369115	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	97957	1.86648	665.9550
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3325454	40.0000	
* 23 Perylene-d12	264	9.403	9.409	(1.000)	3111459	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	35793	0.44579	159.0573
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	31183	0.70019	249.8267
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	24975	0.56999	203.3711
5 Acenaphthylene	152	5.045	5.045	(0.983)	13554	0.17951	64.0489
7 Acenaphthene	154	5.151	5.151	(1.003)	8051	0.17003	60.6679
9 Fluorene	166	5.474	5.480	(1.066)	11479	0.19000	67.7917(Q)
11 Phenanthrene	178	6.115	6.121	(1.002)	344819	3.46420	1236.0173
12 Anthracene	178	6.151	6.157	(1.008)	50484	0.54746	195.3309

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.256	6.257	(1.025)	50584	0.70215	250.5263
15 Fluoranthene	202	6.968	6.968	(1.142)	737639	7.25014	2586.8325
16 Pyrene	202	7.139	7.145	(0.885)	591902	6.59151	2351.8343
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	324059	3.53399	1260.9196
19 Chrysene	228	8.086	8.092	(1.002)	426160	4.61597	1646.9649
20 Benzo(b)fluoranthene	252	8.997	9.004	(0.957)	504443	6.59860	2354.3634(M)
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	188338	2.20580	787.0233(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	286717	3.76809	1344.4463
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	174214	2.25191	803.4752(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	57034	0.85880	306.4184
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	190898	2.64094	942.2816

QC Flag Legend

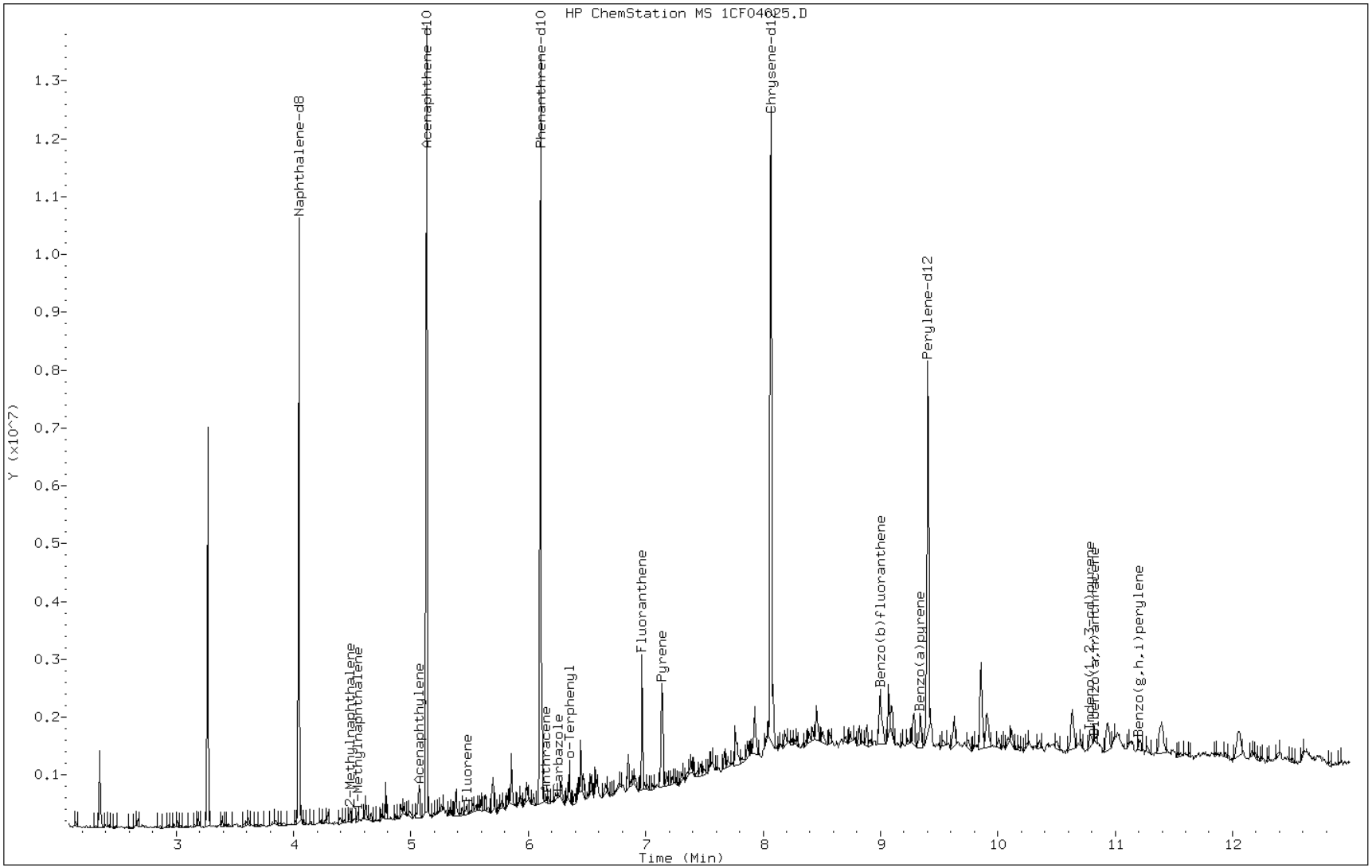
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC



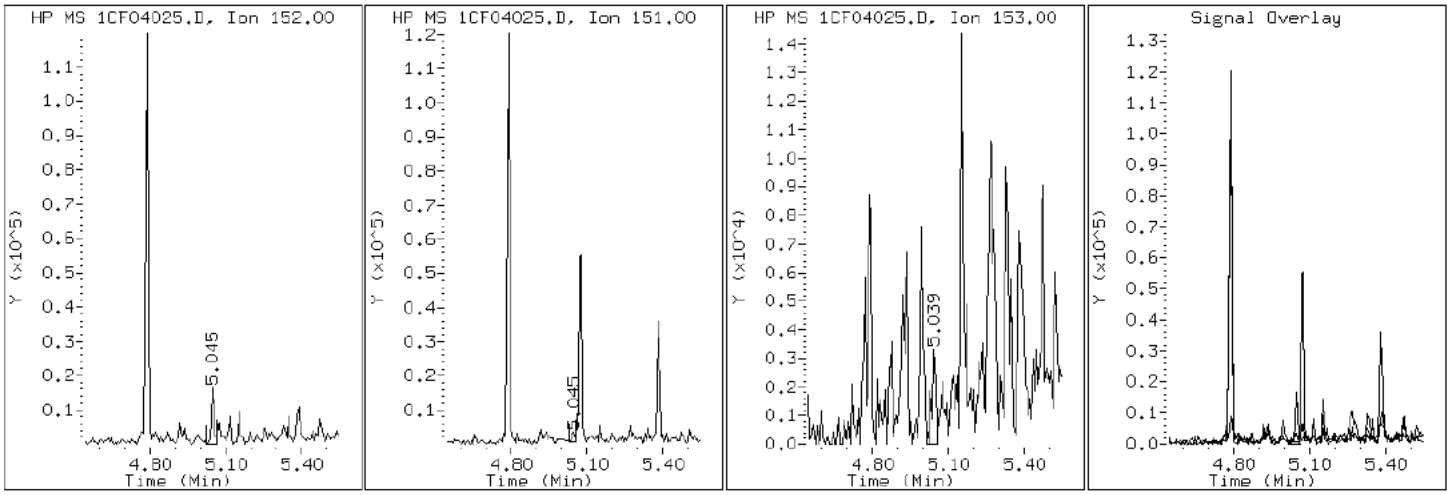
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

5 Acenaphthylene



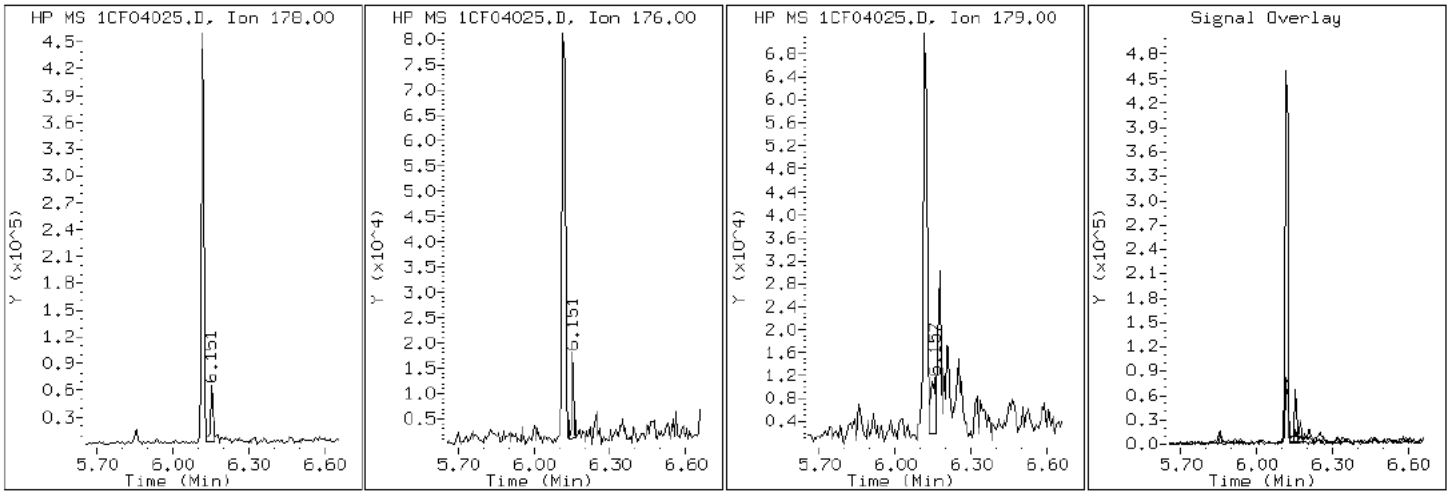
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

12 Anthracene



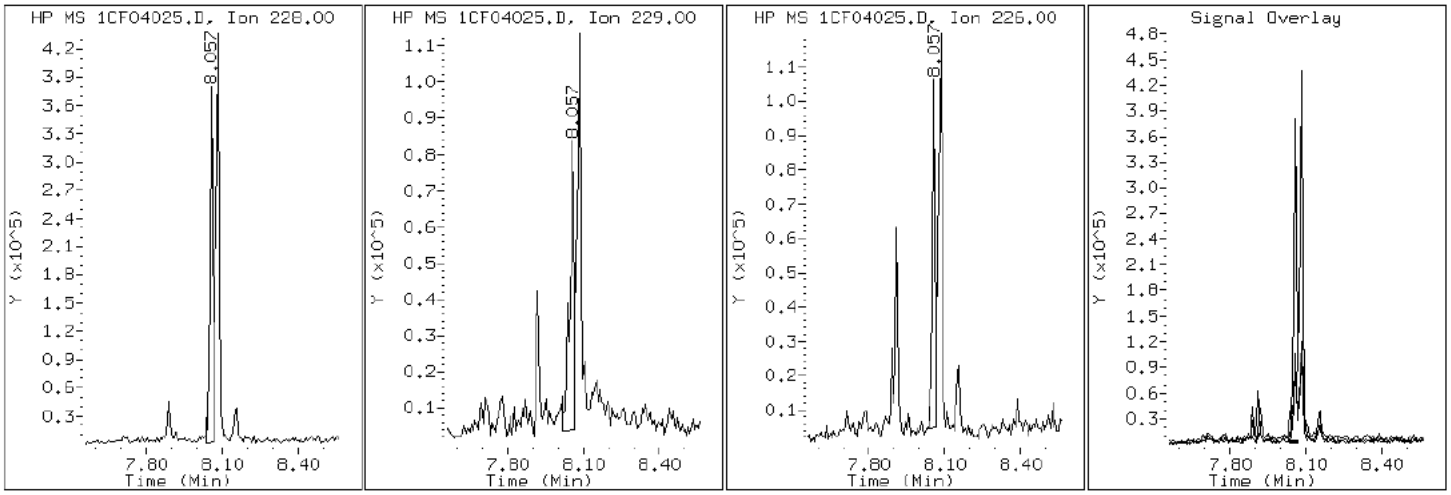
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

17 Benzo(a)anthracene



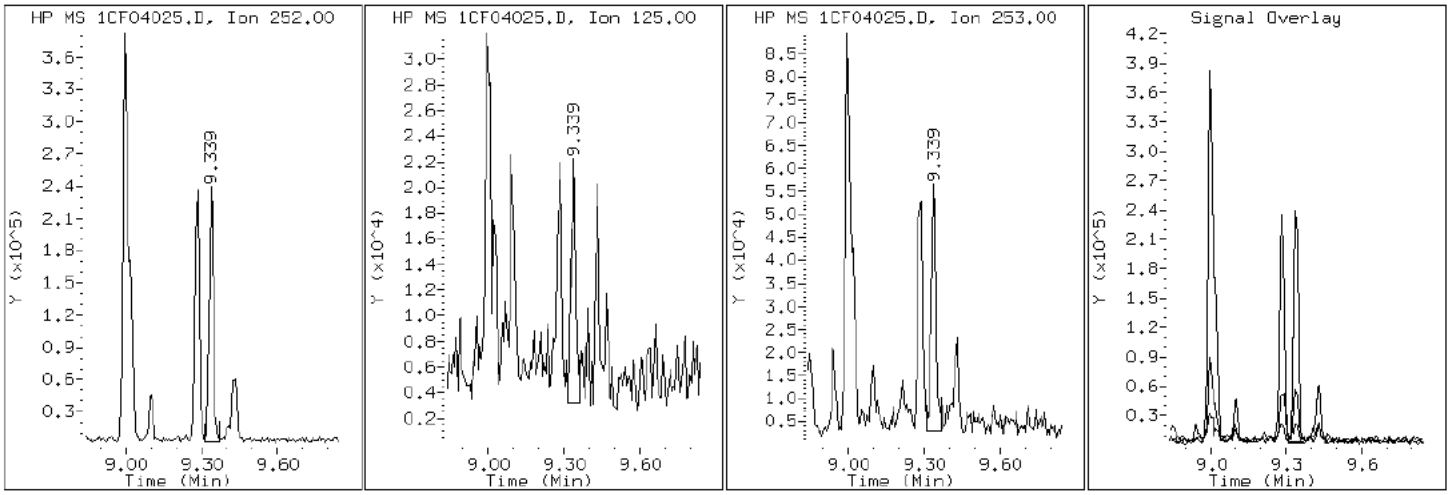
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

22 Benzo(a)pyrene



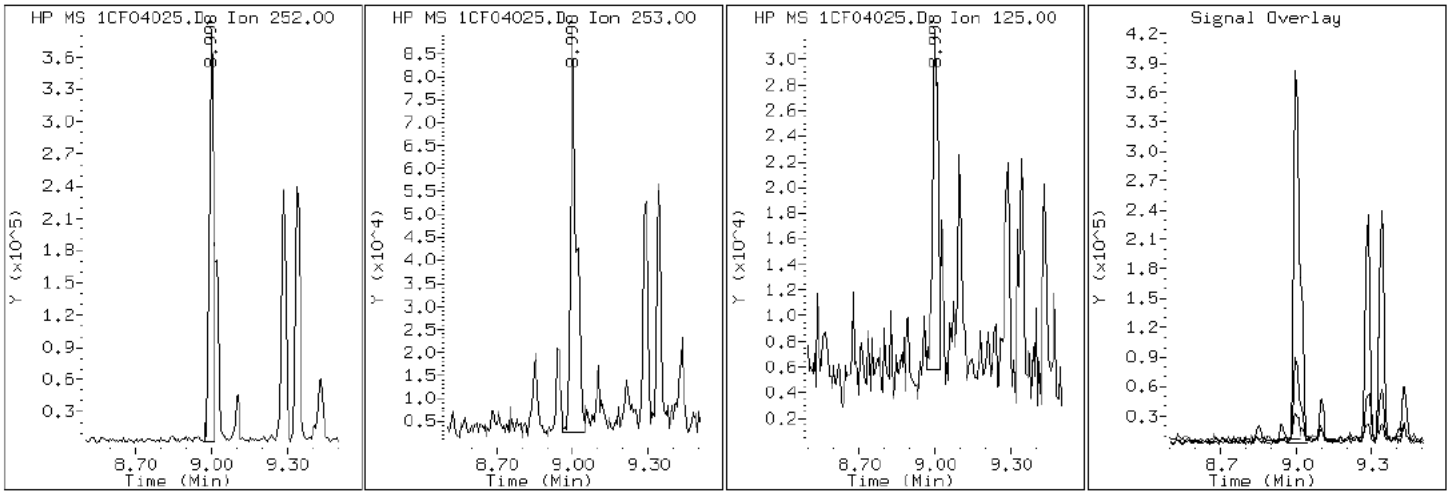
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



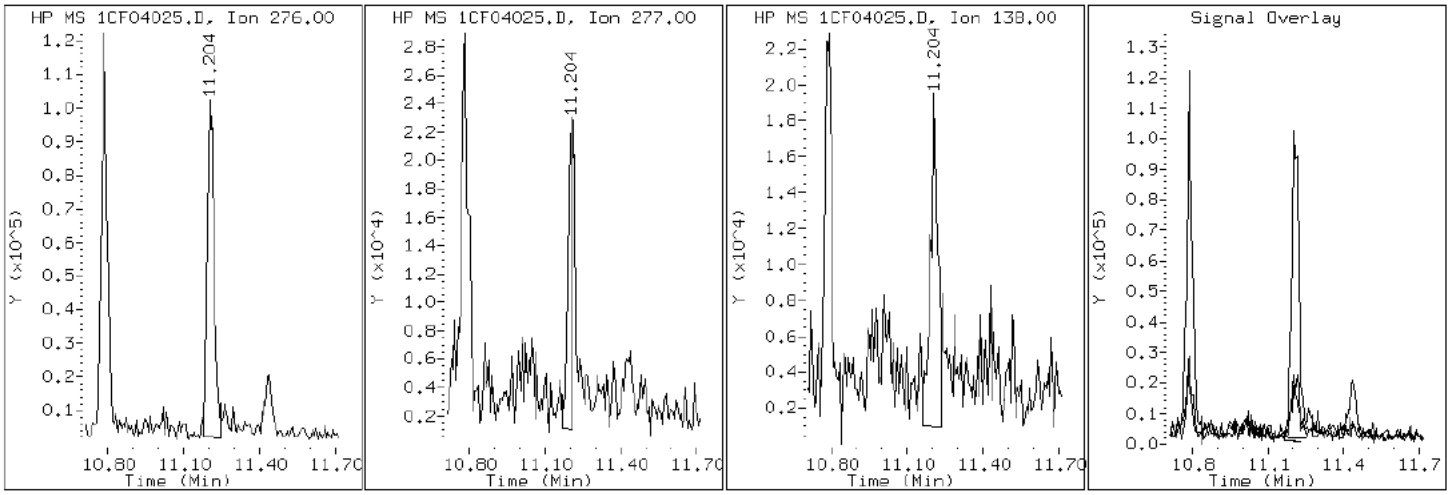
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



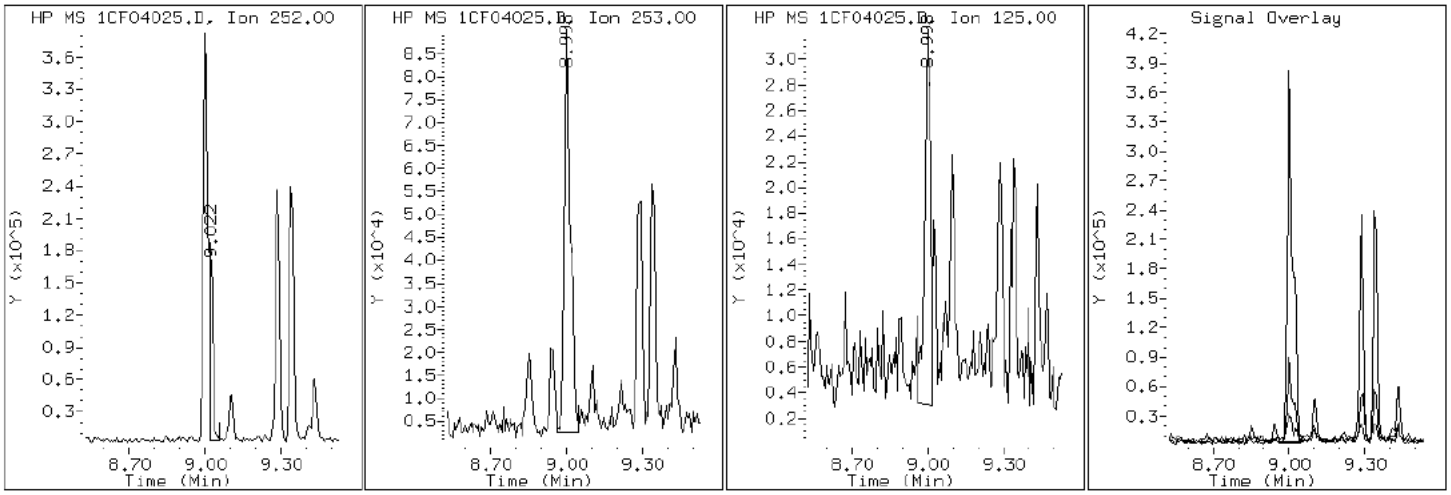
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



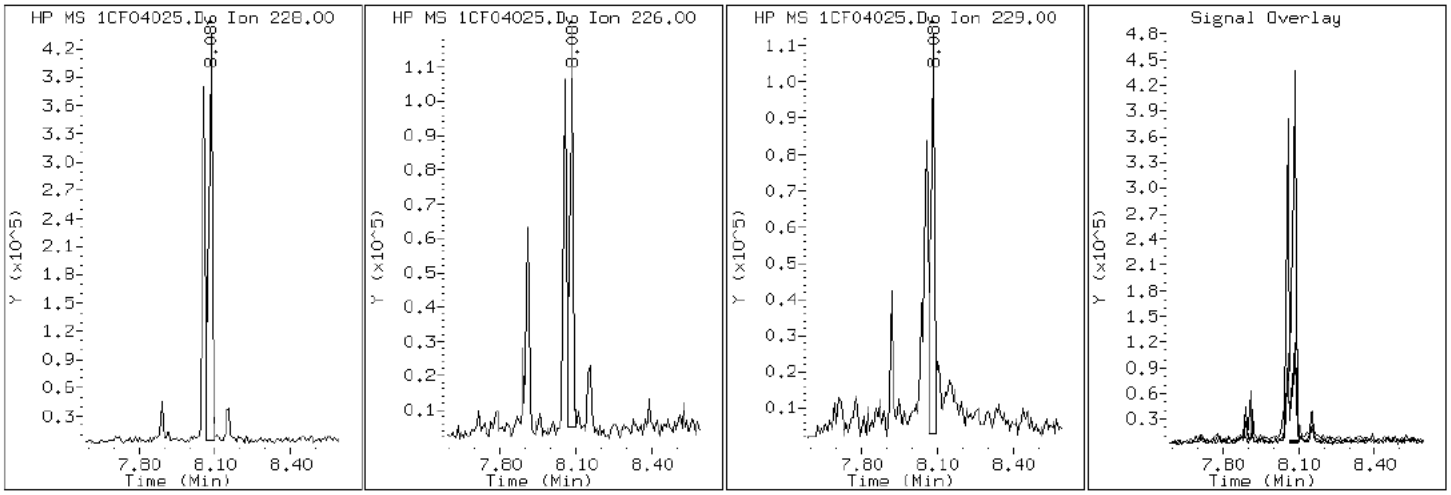
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

19 Chrysene



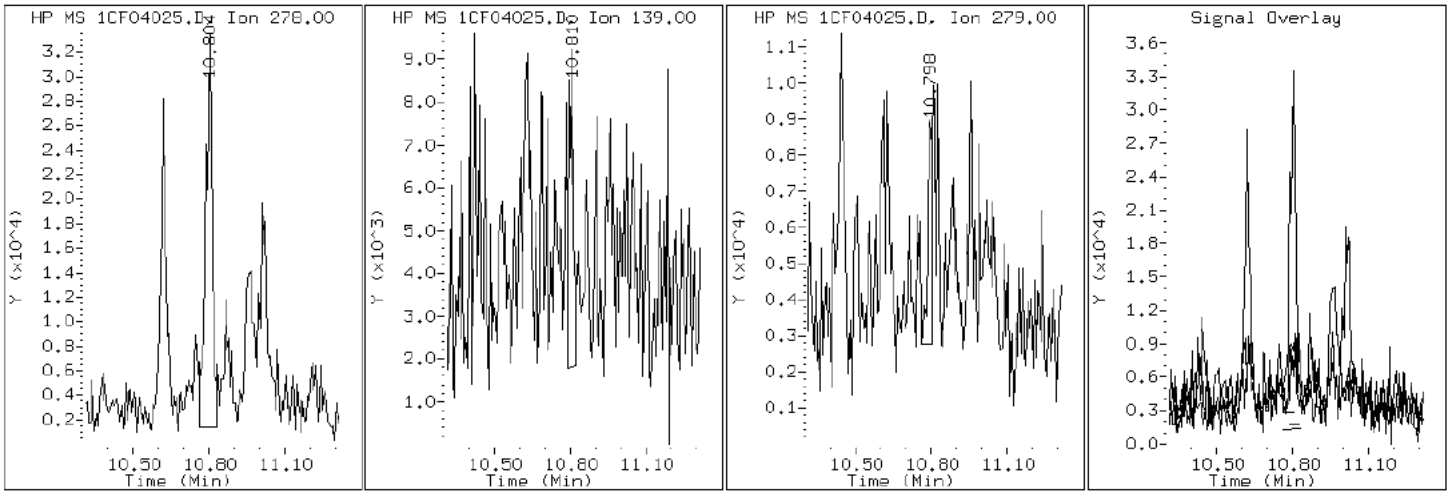
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



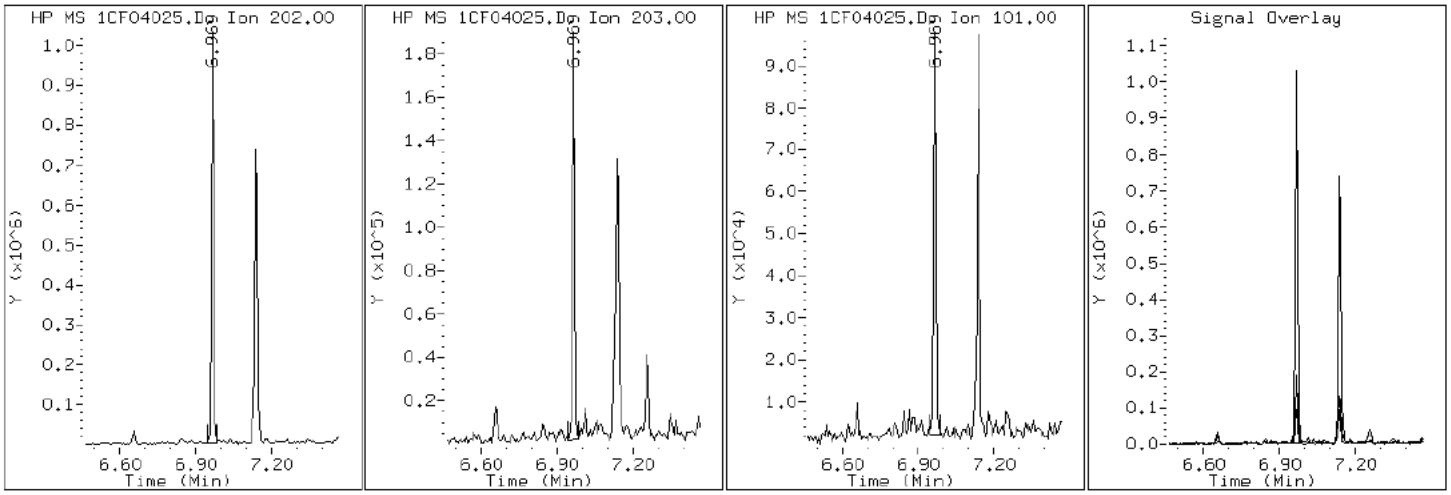
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

15 Fluoranthene



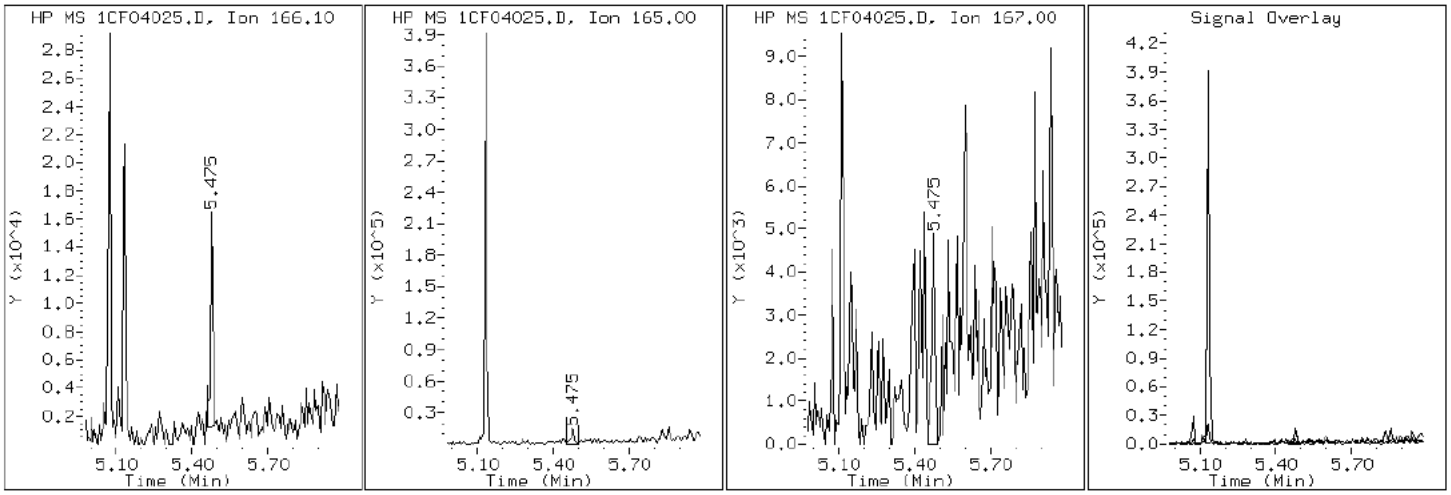
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

9 Fluorene



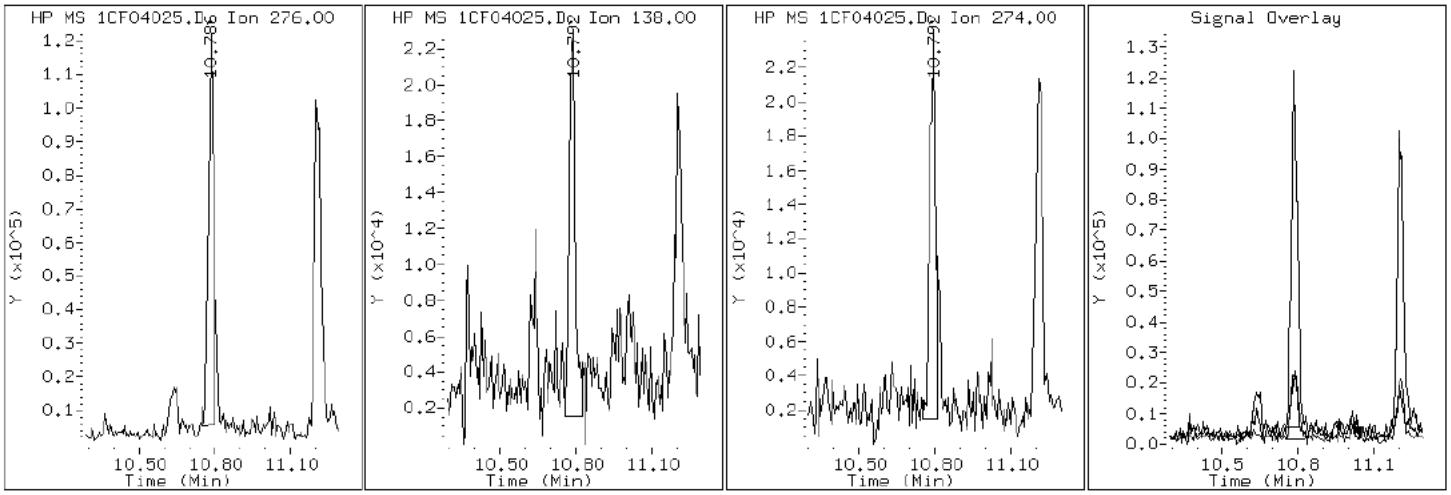
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

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



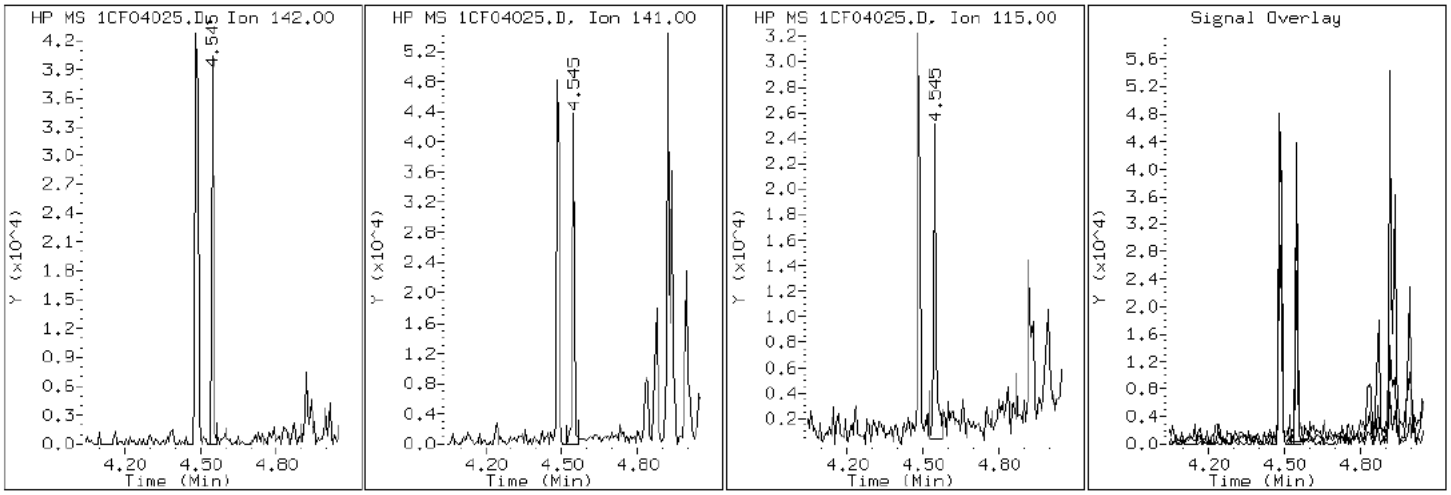
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

4 1-Methylnaphthalene



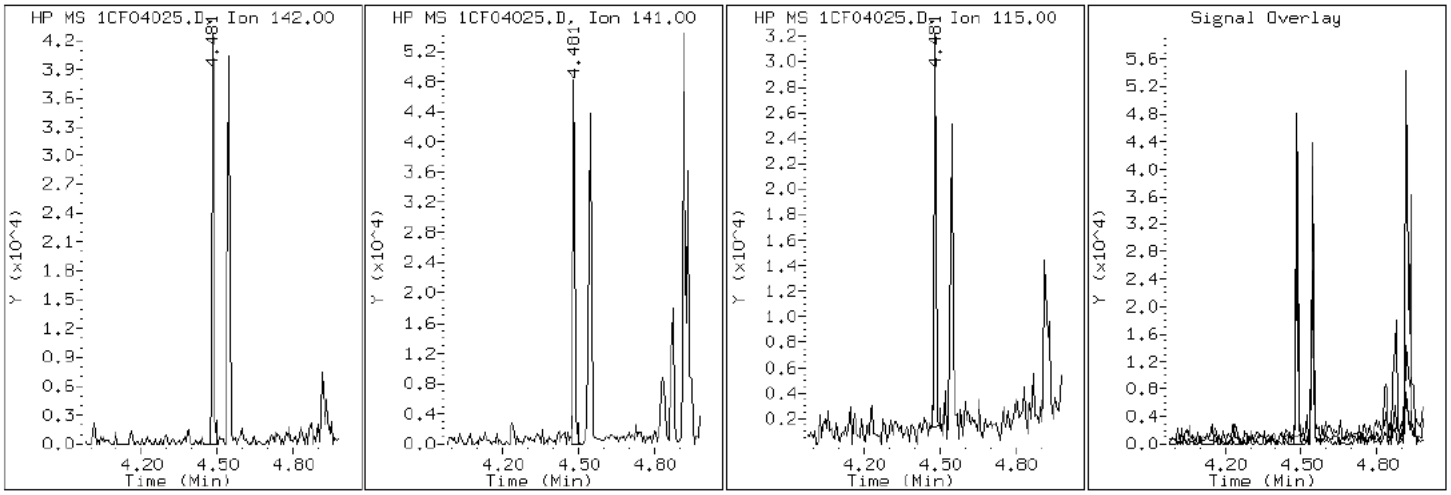
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

3 2-Methylnaphthalene



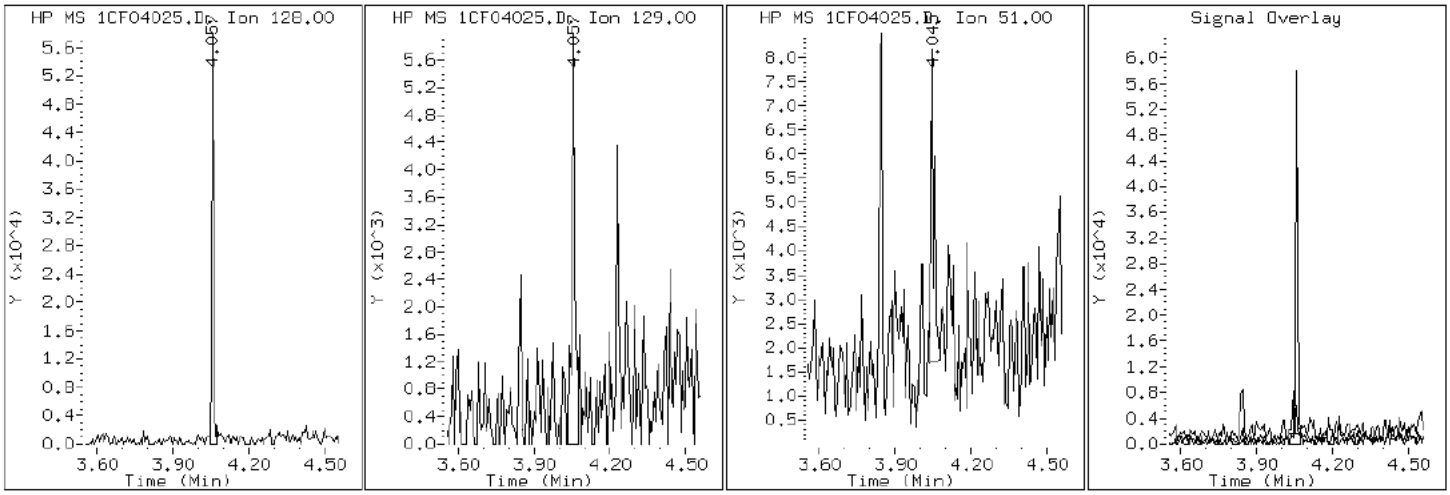
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

2 Naphthalene



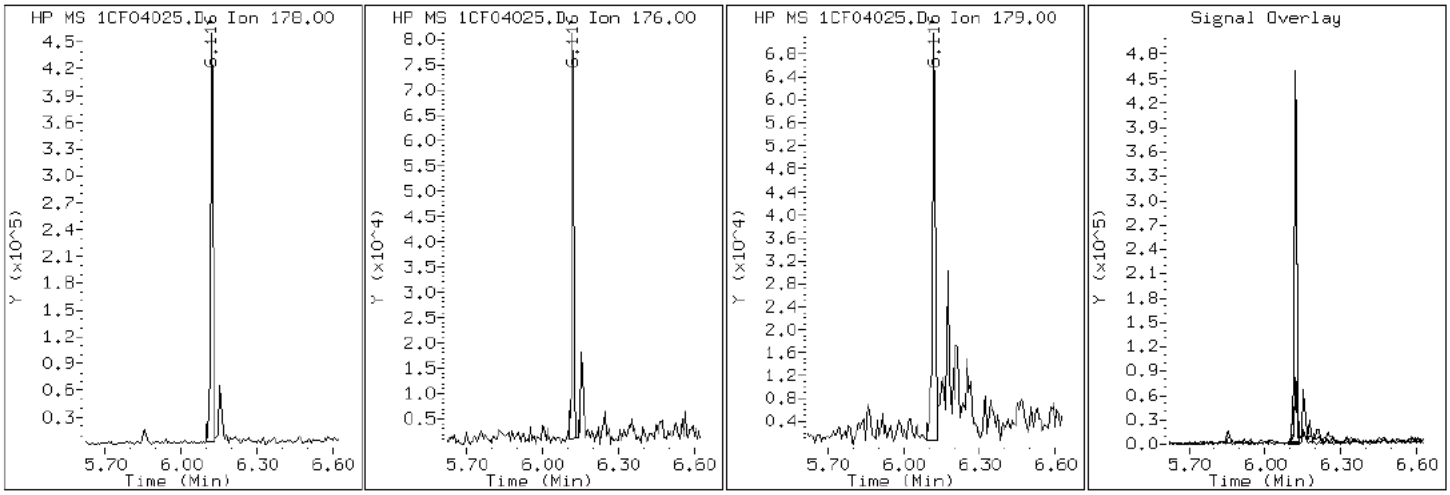
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

11 Phenanthrene



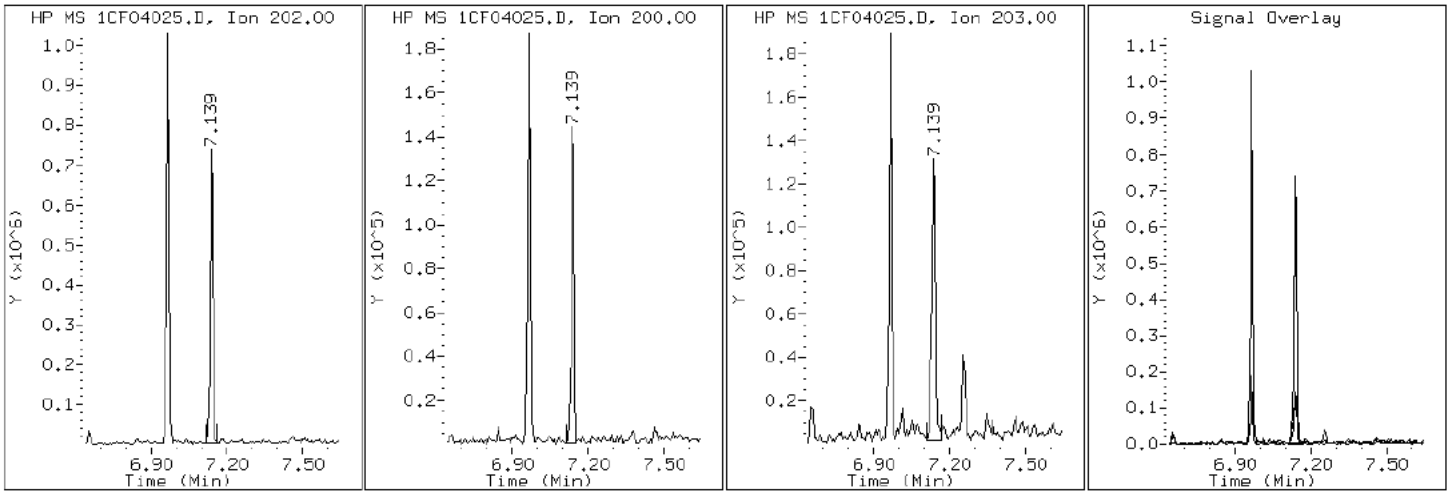
Data File: 1CF04025.D

Date: 04-JUN-2013 17:38

Client ID: CV0978E-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04025.D
Inj. Date and Time: 04-JUN-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0978E-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

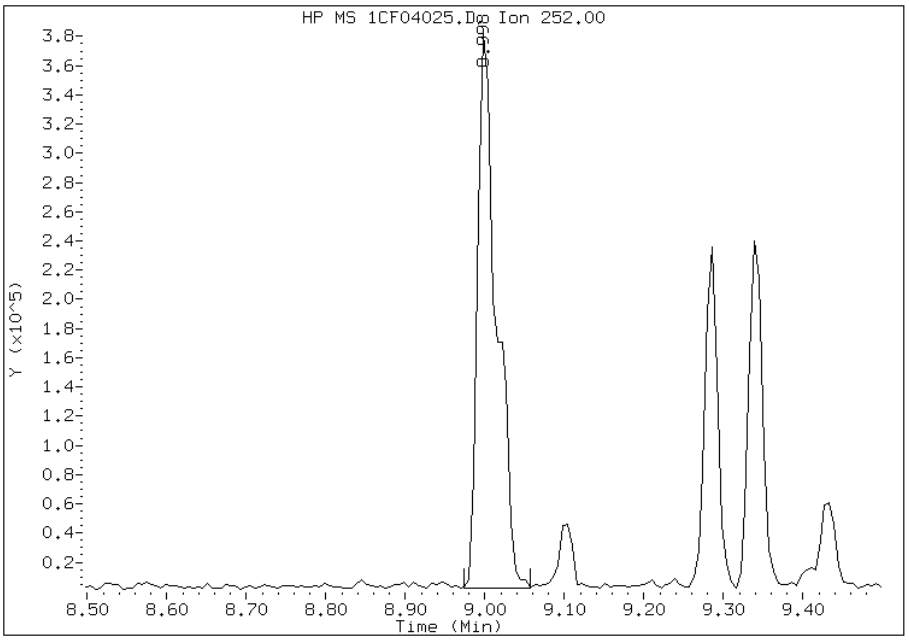
Processing Integration Results

RT: 9.00

Response: 636969

Amount: 8

Conc: 2973



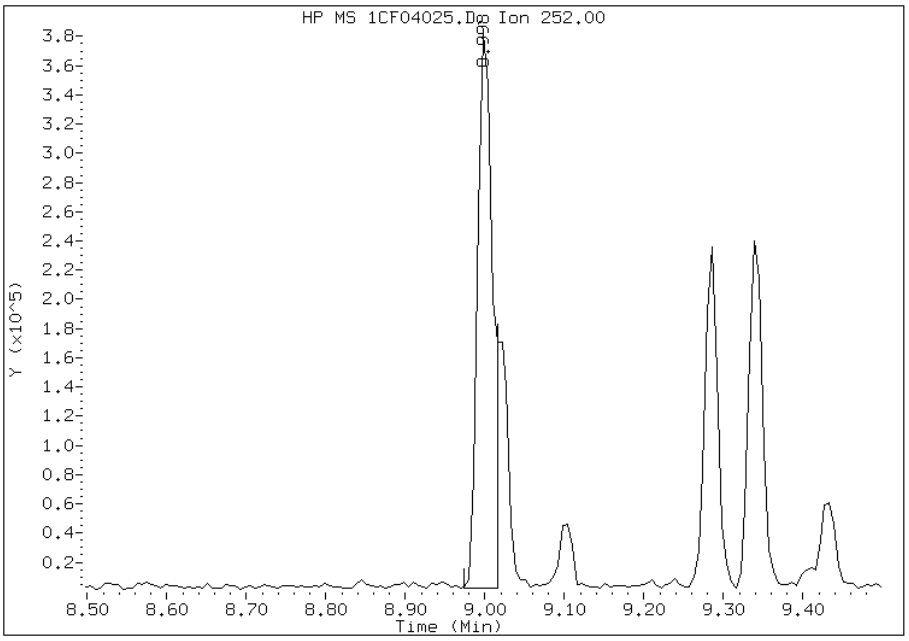
Manual Integration Results

RT: 9.00

Response: 504443

Amount: 7

Conc: 2354



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04025.D
Inj. Date and Time: 04-JUN-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0978E-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

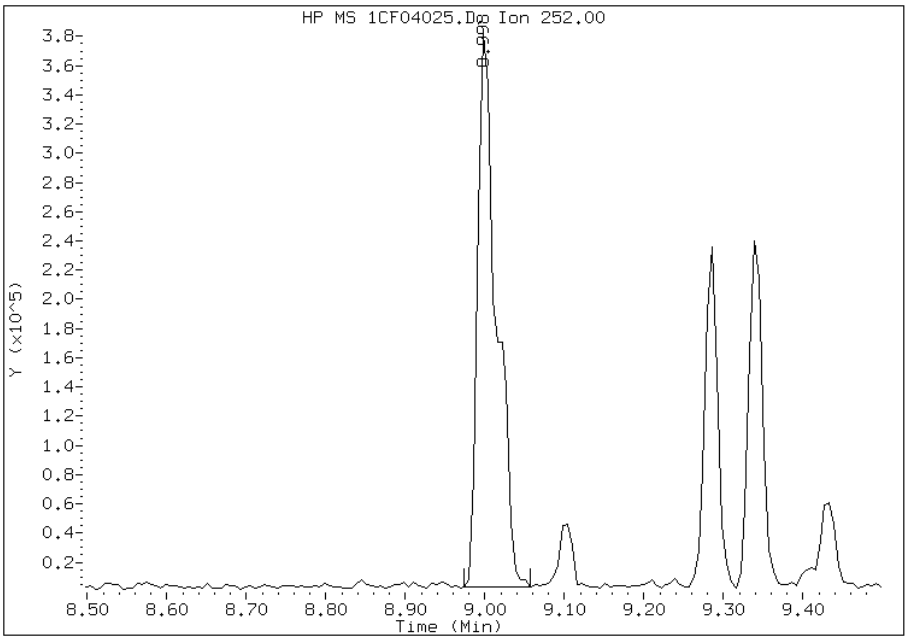
Processing Integration Results

RT: 9.00

Response: 633687

Amount: 7

Conc: 2648



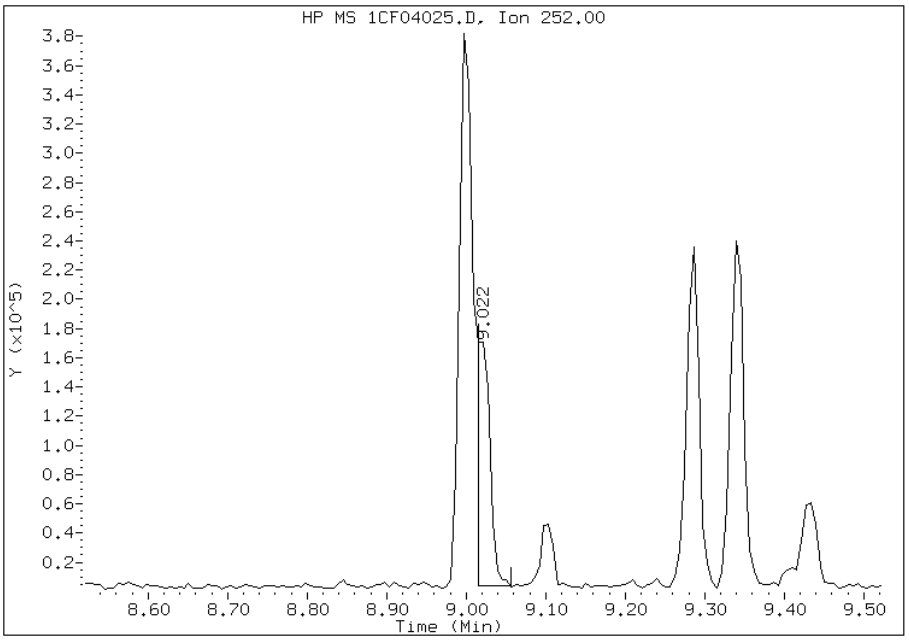
Manual Integration Results

RT: 9.02

Response: 188338

Amount: 2

Conc: 787



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04025.D
Inj. Date and Time: 04-JUN-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0978E-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

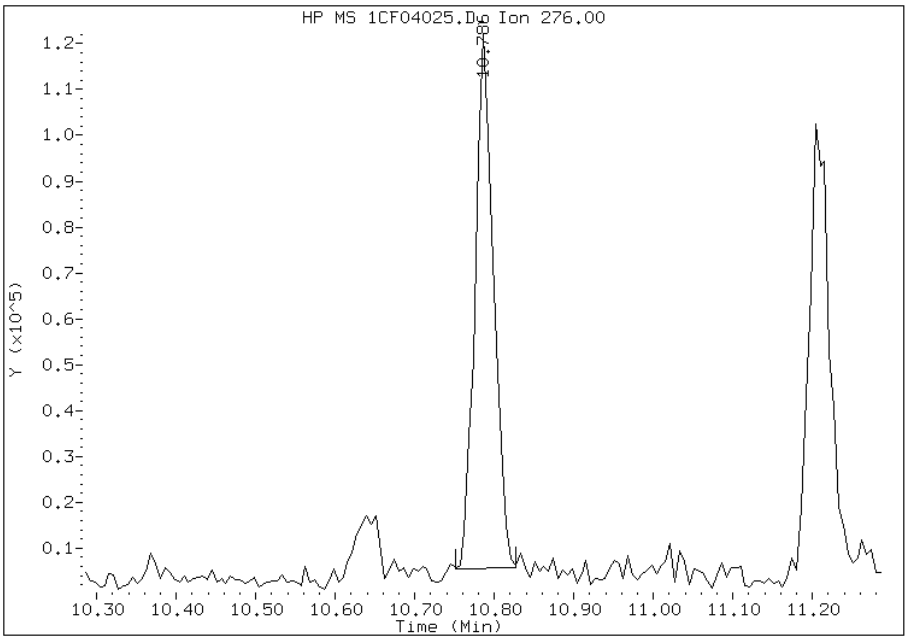
Processing Integration Results

RT: 10.79

Response: 186046

Amount: 2

Conc: 854



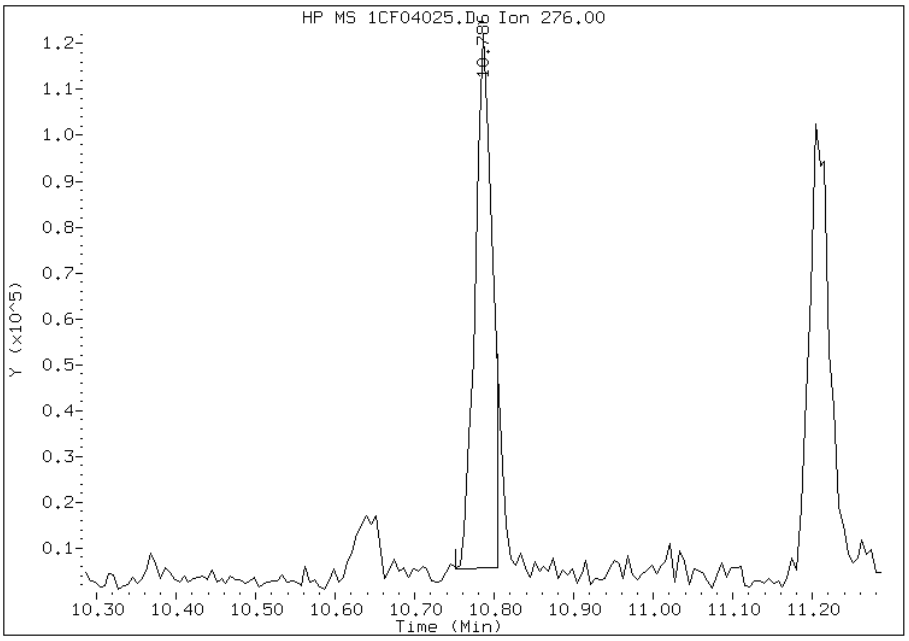
Manual Integration Results

RT: 10.79

Response: 174214

Amount: 2

Conc: 803



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978F-CS | Lab Sample ID: 680-90723-16

Matrix: Solid | Lab File ID: 1CF04026.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 11:00

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.44(g) | Date Analyzed: 06/04/2013 17:56

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

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

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	75	J	200	25
120-12-7	Anthracene	110		42	21
56-55-3	Benzo[a]anthracene	690		40	19
50-32-8	Benzo[a]pyrene	660		52	26
205-99-2	Benzo[b]fluoranthene	1400		61	30
191-24-2	Benzo[g,h,i]perylene	700		99	22
207-08-9	Benzo[k]fluoranthene	300		40	18
218-01-9	Chrysene	950		45	22
53-70-3	Dibenz(a,h)anthracene	160		99	20
206-44-0	Fluoranthene	1100		99	20
86-73-7	Fluorene	50	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	510		99	35
90-12-0	1-Methylnaphthalene	390		200	22
91-57-6	2-Methylnaphthalene	460		200	35
91-20-3	Naphthalene	320		200	22
85-01-8	Phenanthrene	790		40	19
129-00-0	Pyrene	1100		99	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04026.D
Lab Smp Id: 680-90723-A-16-A Client Smp ID: CV0978F-CS
Inj Date : 04-JUN-2013 17:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-16-a
Misc Info : 680-90723-A-16-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.440	Weight Extracted
M	21.643	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2763263	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1873325	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3302010	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	92407	1.79651	593.9727
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	3341571	40.0000	
*	23 Perylene-d12	264	9.409	9.409	(1.000)	3325187	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	76449	0.98038	324.1386
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	60393	1.39629	461.6482
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	49588	1.16527	385.2688
	5 Acenaphthylene	152	5.045	5.045	(0.983)	16301	0.22699	75.0472
	9 Fluorene	166	5.474	5.480	(1.066)	8717	0.15170	50.1551(Q)
	11 Phenanthrene	178	6.116	6.121	(1.002)	233200	2.39044	790.3402
	12 Anthracene	178	6.151	6.157	(1.008)	30518	0.33767	111.6414
	13 Carbazole	167	6.257	6.257	(1.025)	28695	0.45478	150.3607

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	324797	3.25726	1076.9329
16 Pyrene	202	7.139	7.145	(0.885)	297602	3.29816	1090.4550
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	191776	2.08131	688.1333
19 Chrysene	228	8.086	8.092	(1.002)	267957	2.88839	954.9745
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.956)	351695	4.30481	1423.2800
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	83209	0.91190	301.4968(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.992)	158970	2.00342	662.3818
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	121813	1.52814	505.2413(M)
25 Dibenzo(a,h)anthracene	278	10.821	10.815	(1.150)	33955	0.47842	158.1785(M)
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	164092	2.12419	702.3111

QC Flag Legend

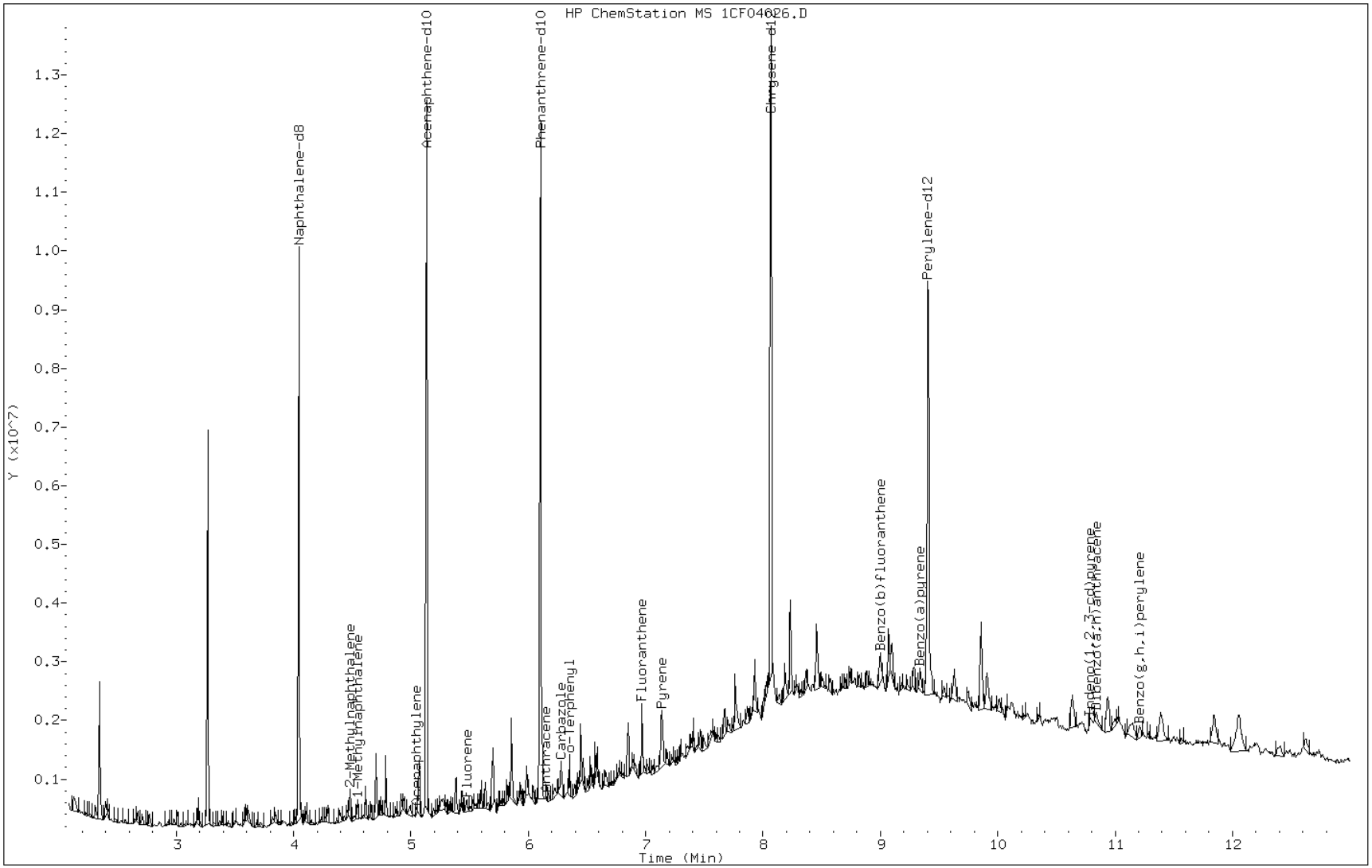
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC



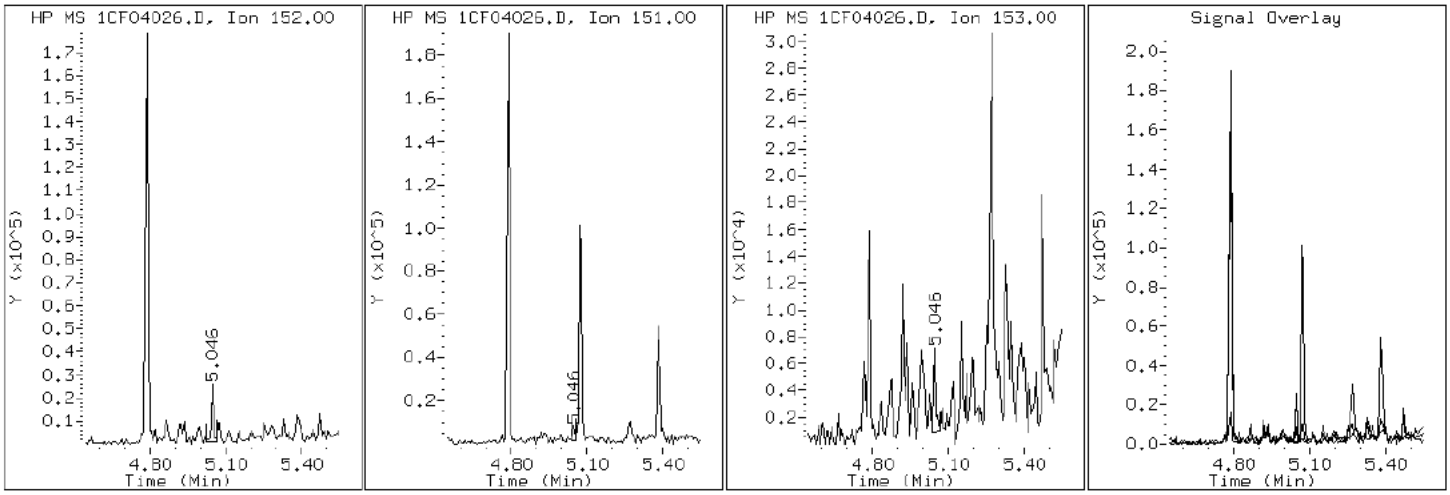
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

5 Acenaphthylene



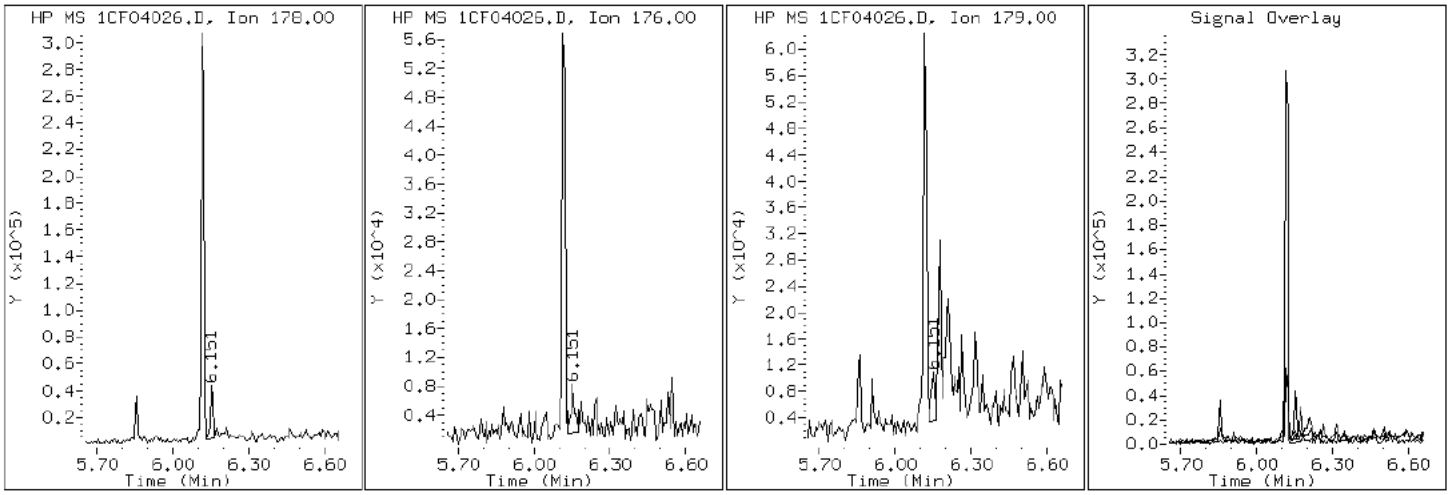
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

12 Anthracene



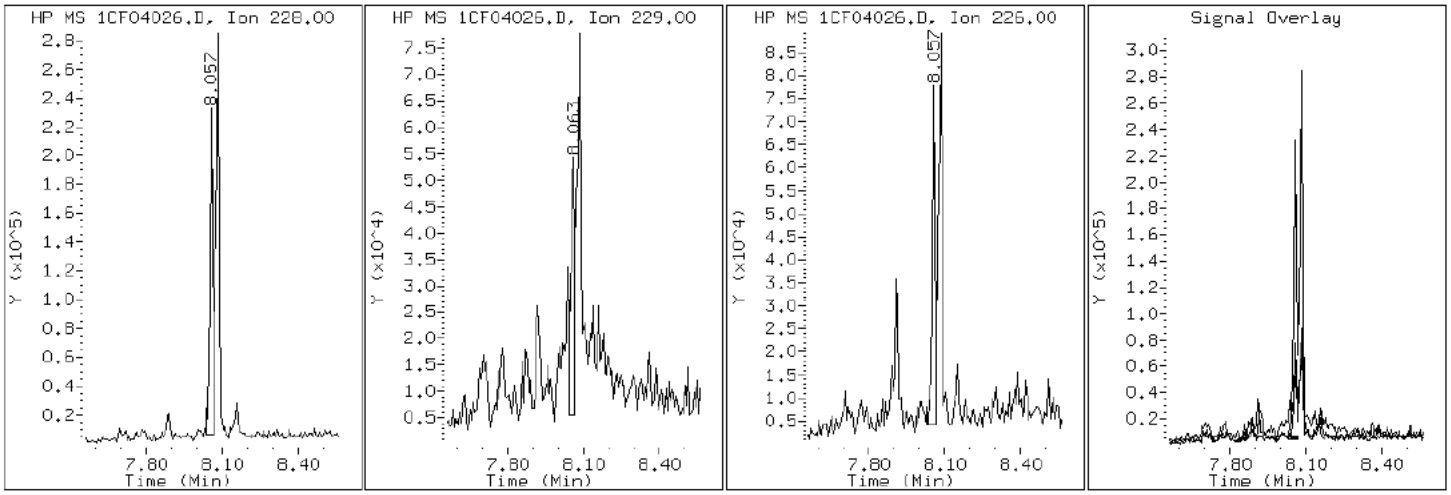
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

17 Benzo(a)anthracene



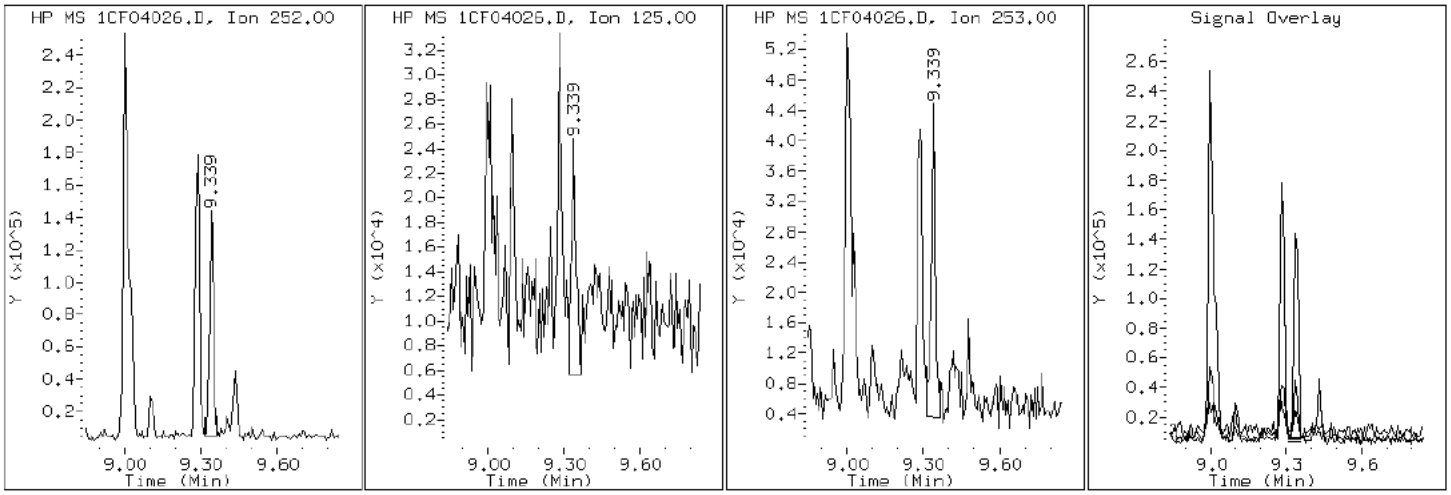
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

22 Benzo(a)pyrene



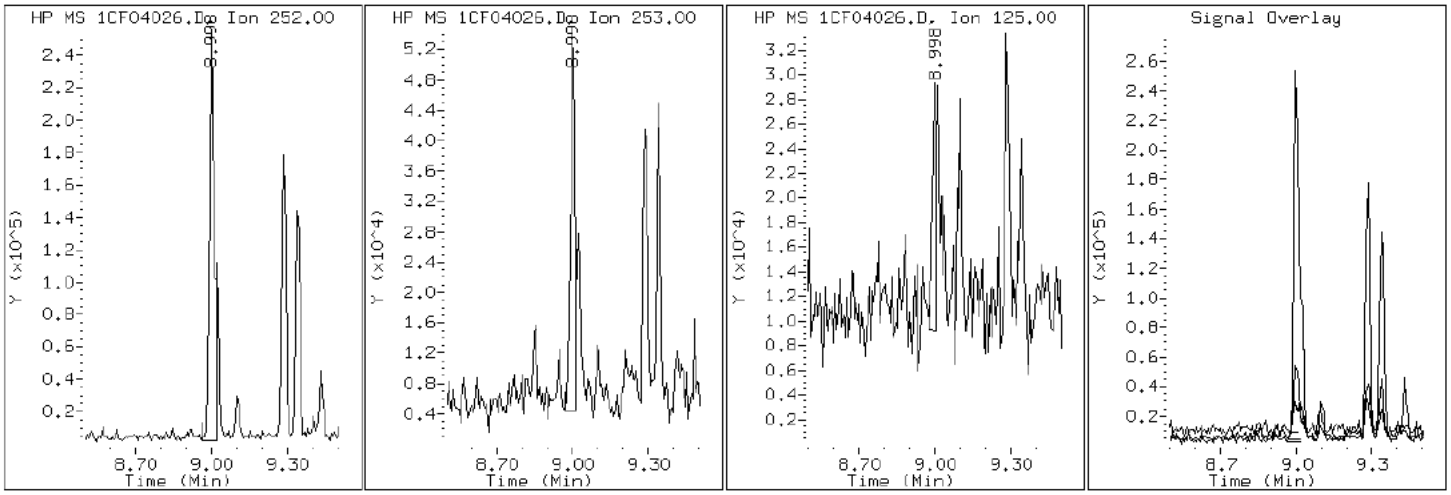
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



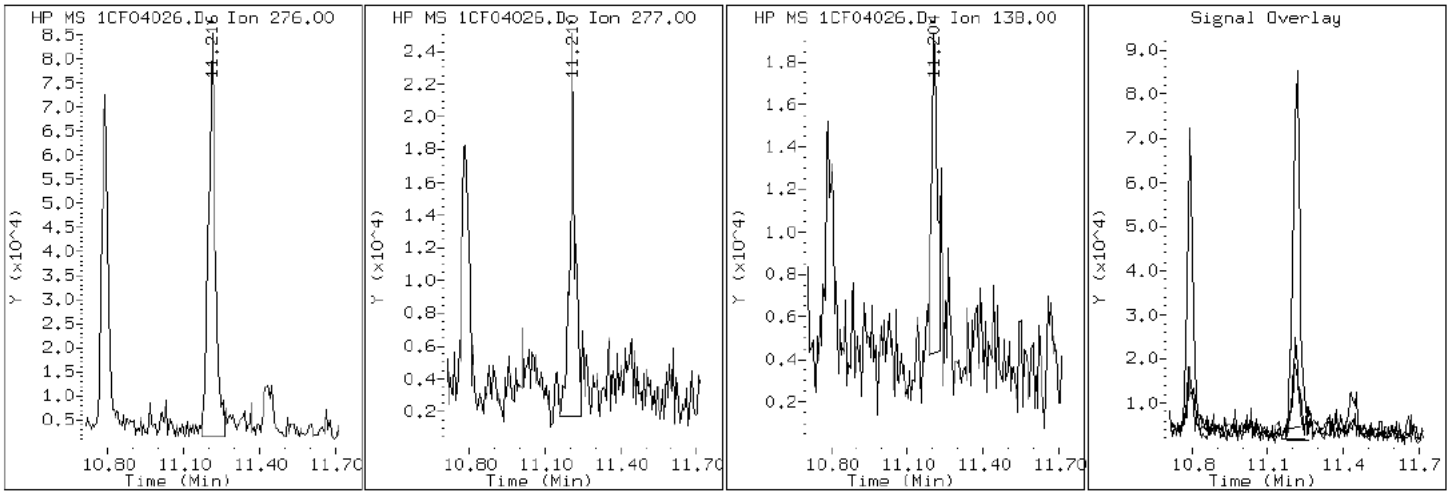
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



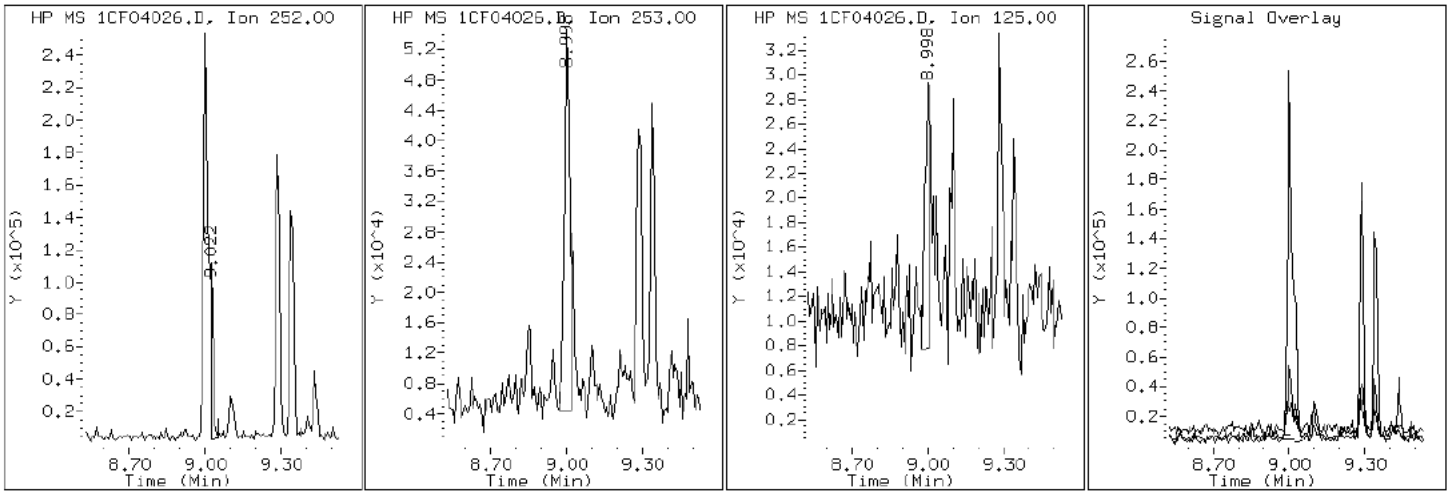
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



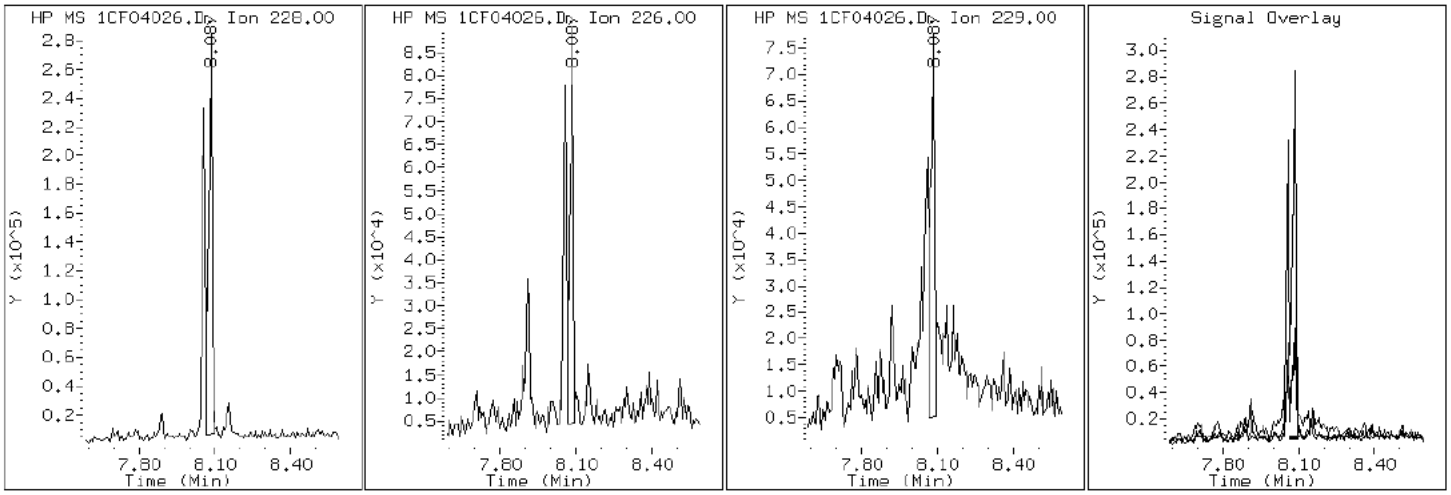
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

19 Chrysene



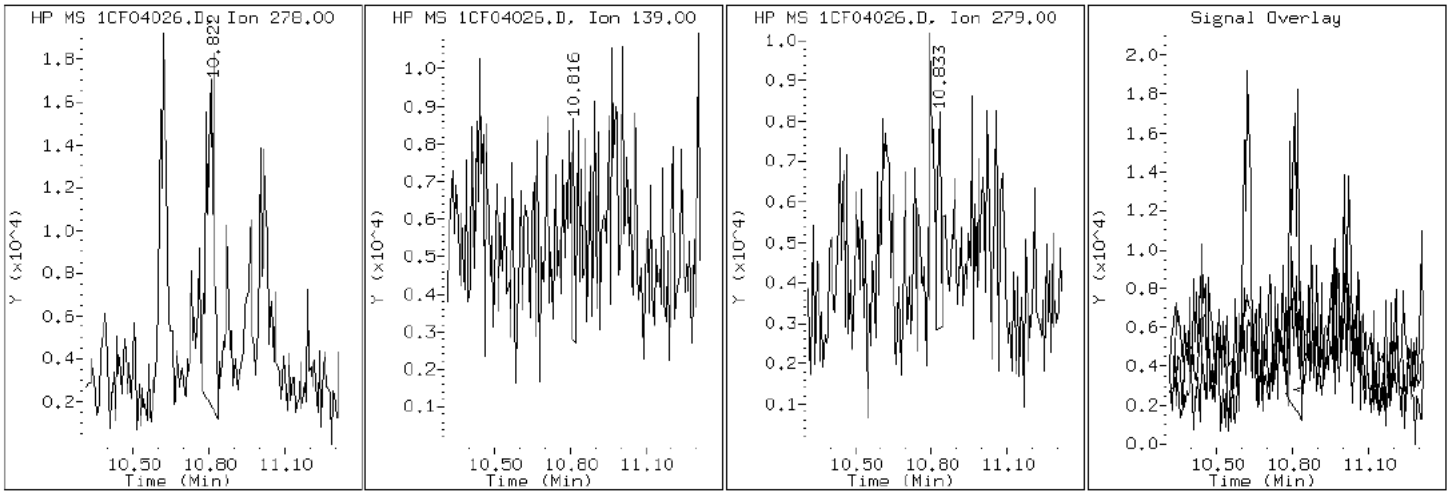
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



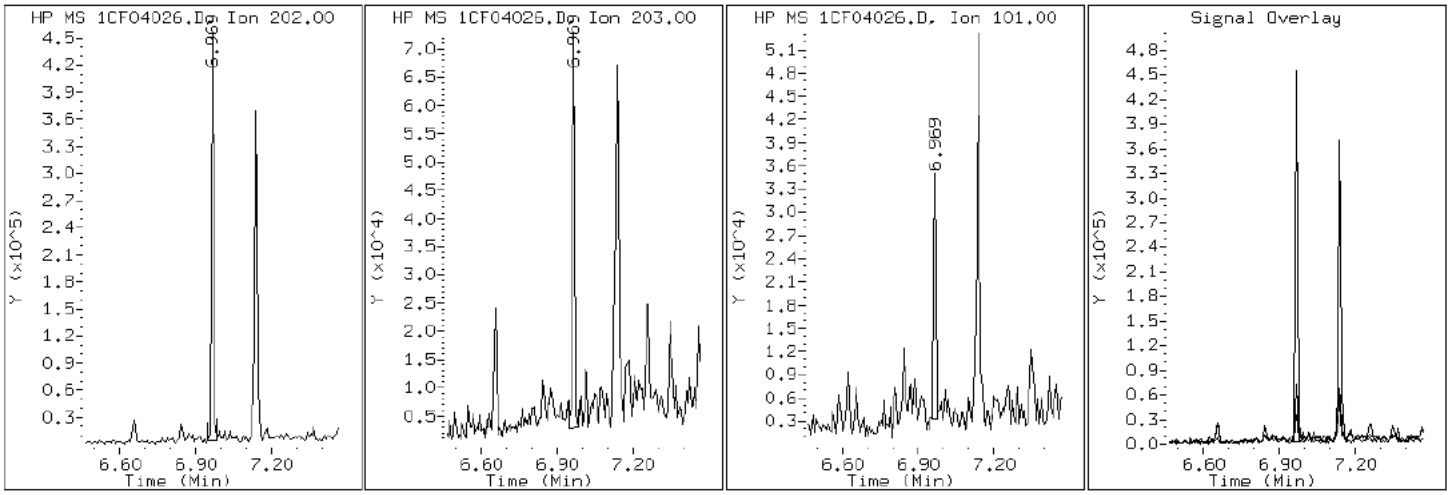
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

15 Fluoranthene



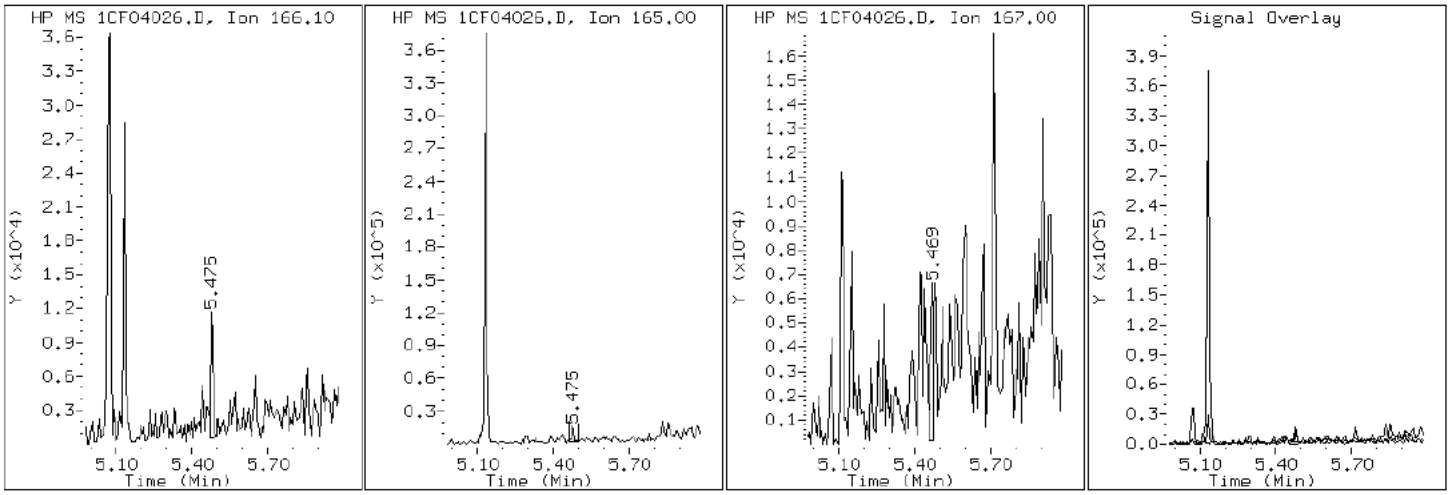
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

9 Fluorene



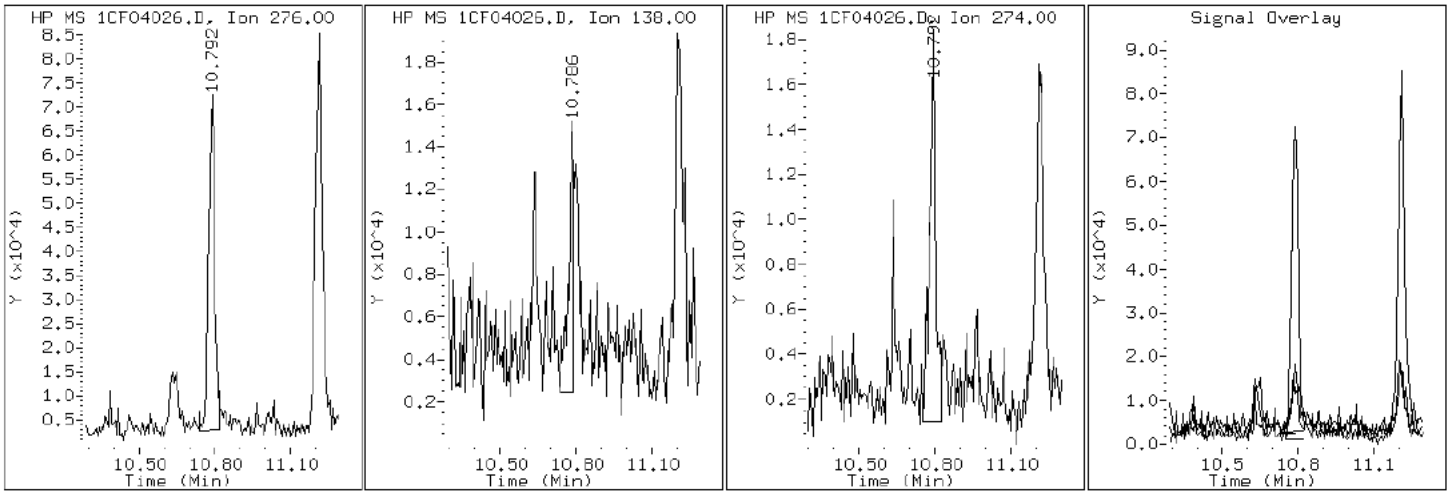
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

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



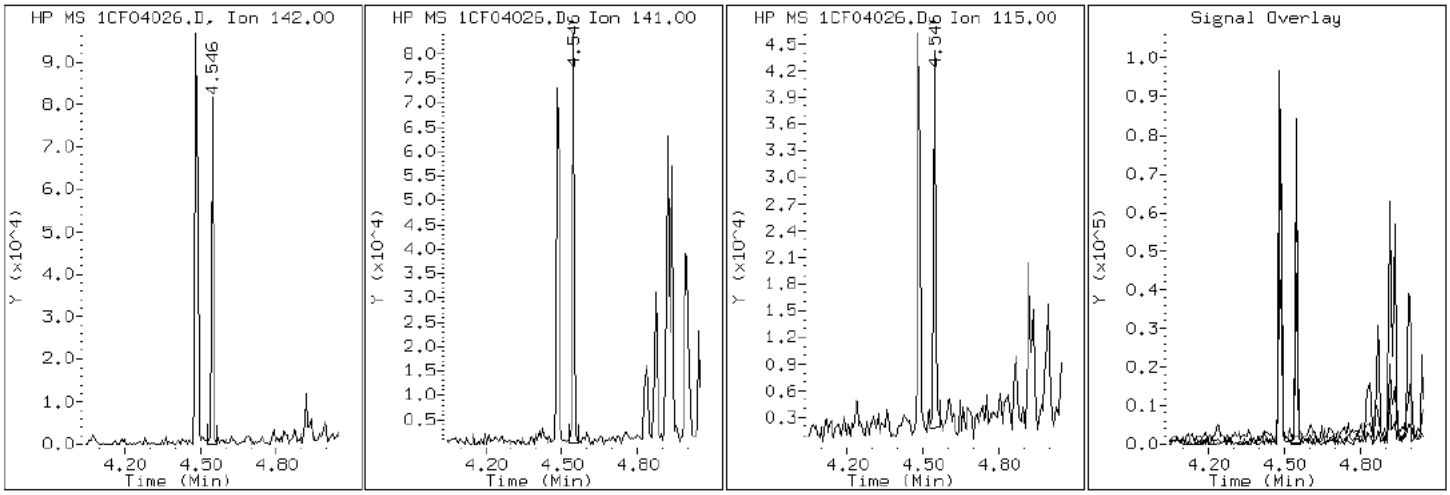
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

4 1-Methylnaphthalene



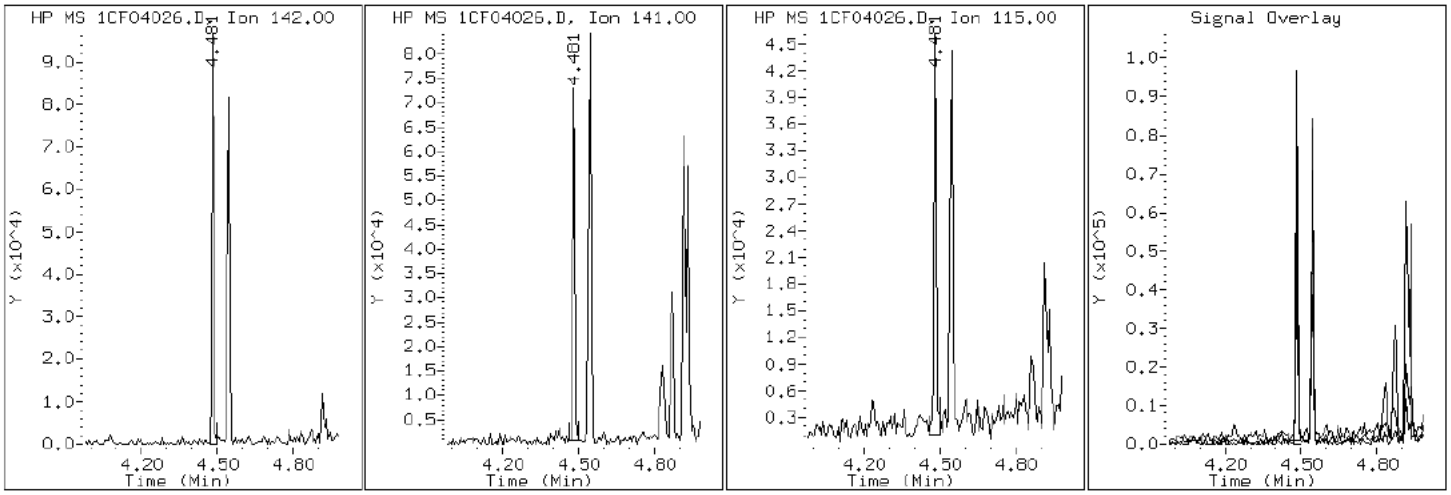
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

3 2-Methylnaphthalene



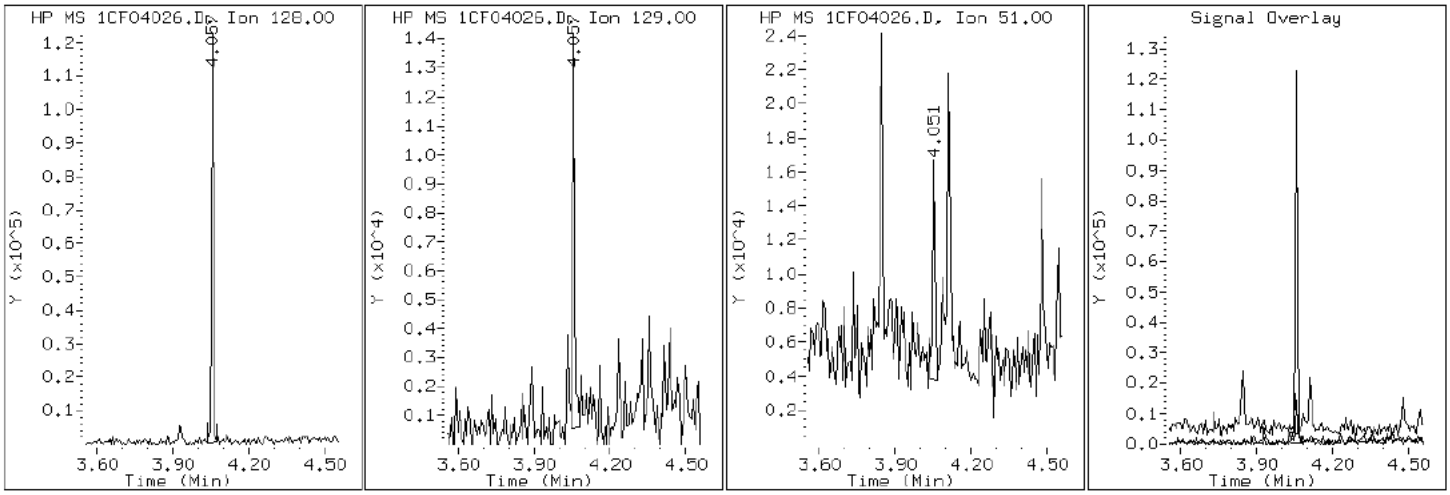
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

2 Naphthalene



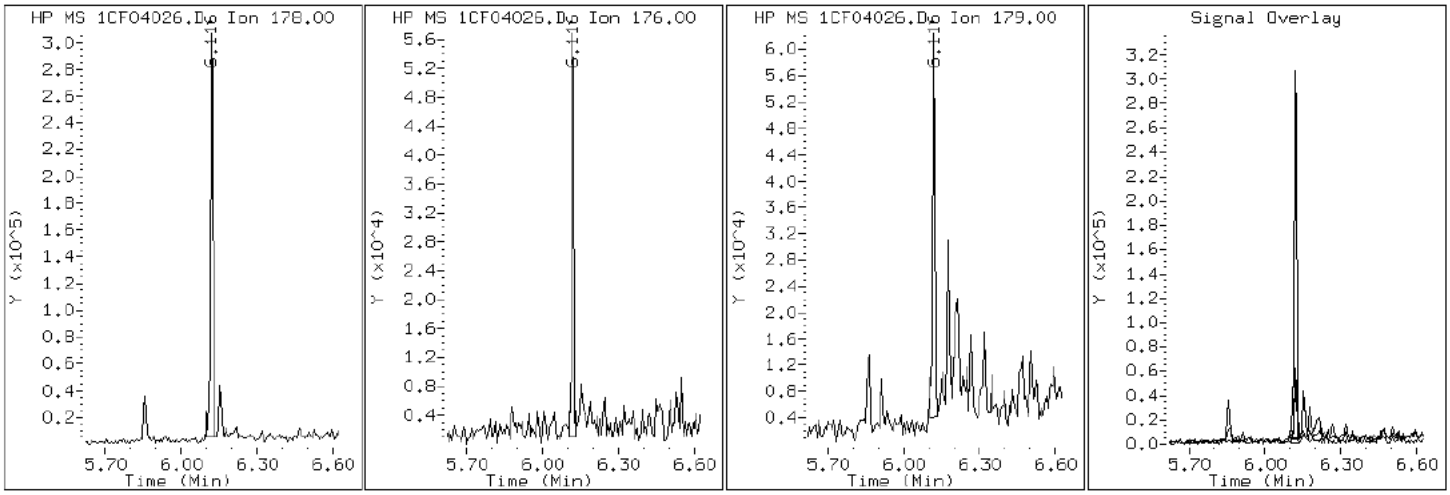
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

11 Phenanthrene



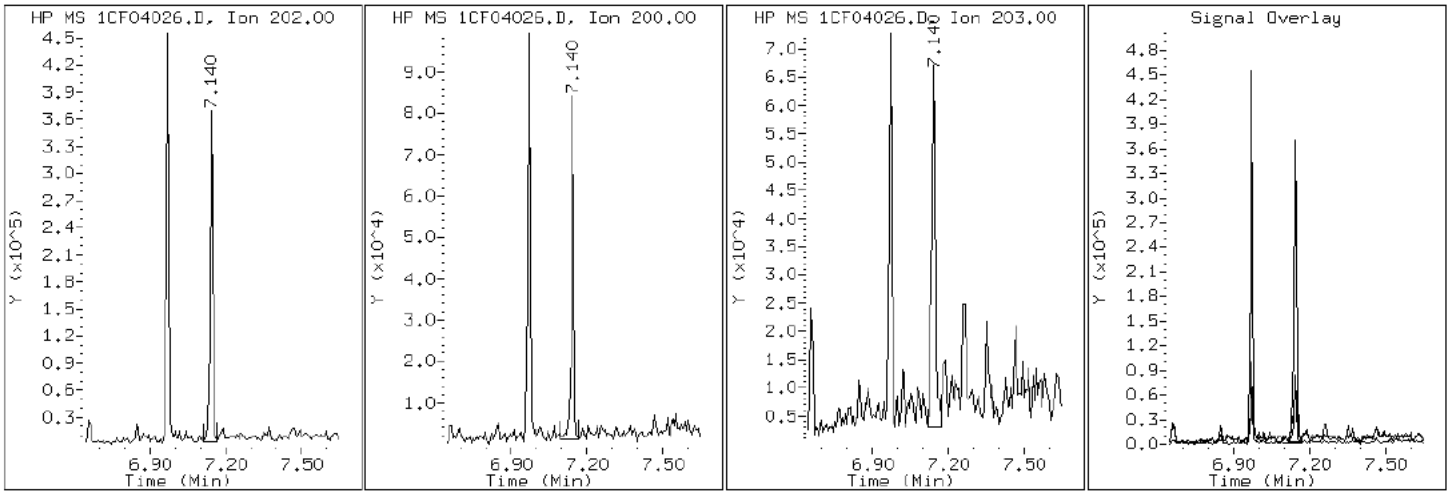
Data File: 1CF04026.D

Date: 04-JUN-2013 17:56

Client ID: CV0978F-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04026.D
Inj. Date and Time: 04-JUN-2013 17:56
Instrument ID: BSMC5973.i
Client ID: CV0978F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

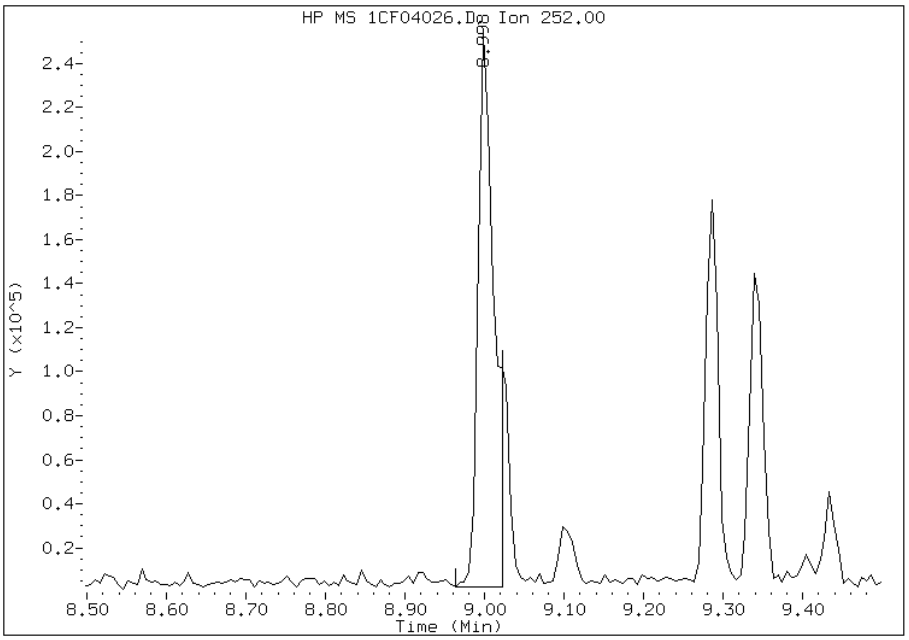
Processing Integration Results

RT: 9.00

Response: 351695

Amount: 4

Conc: 1274



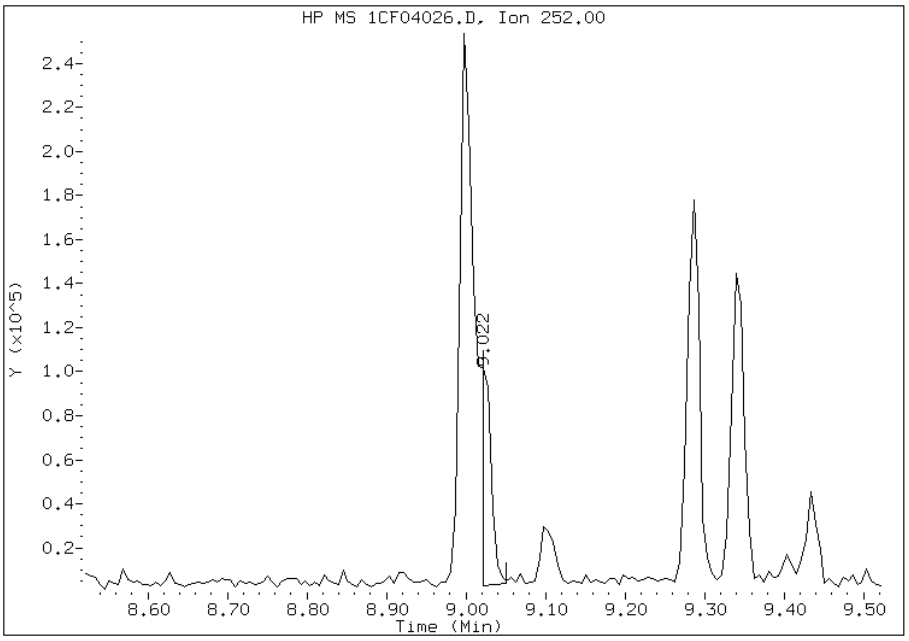
Manual Integration Results

RT: 9.02

Response: 83209

Amount: 1

Conc: 301



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04026.D
Inj. Date and Time: 04-JUN-2013 17:56
Instrument ID: BSMC5973.i
Client ID: CV0978F-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

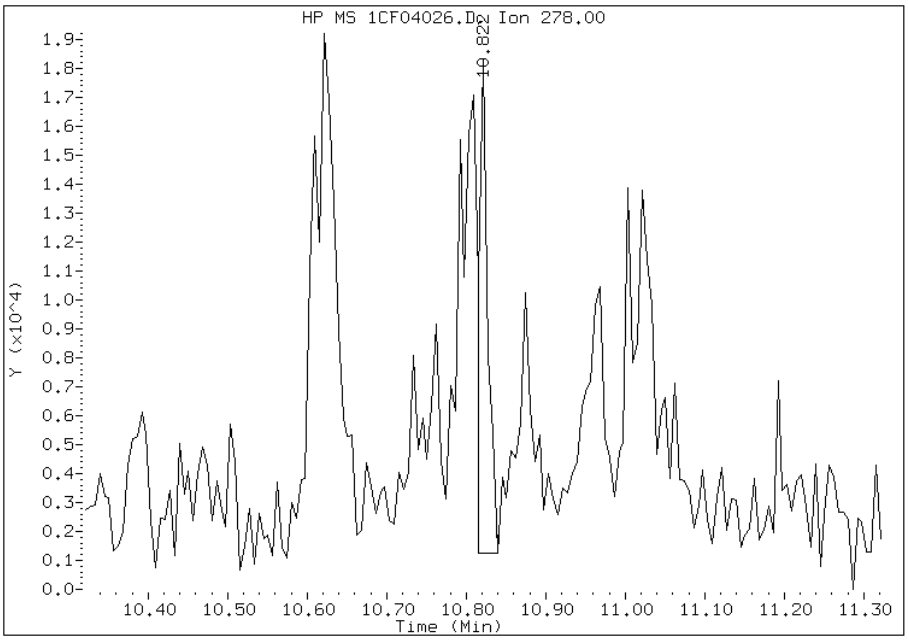
Processing Integration Results

RT: 10.82

Response: 13260

Amount: 0

Conc: 62



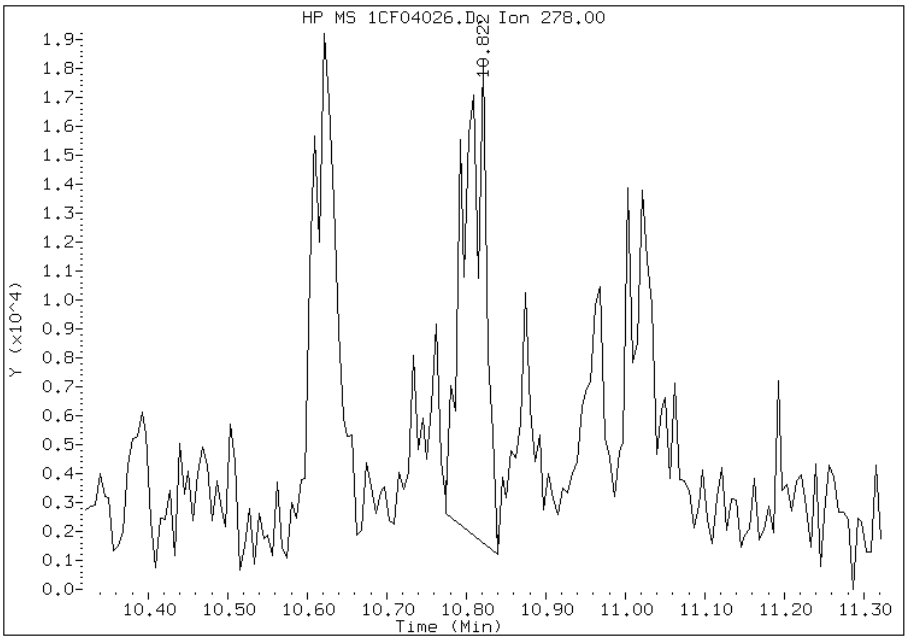
Manual Integration Results

RT: 10.82

Response: 33955

Amount: 0

Conc: 158



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04026.D
Inj. Date and Time: 04-JUN-2013 17:56
Instrument ID: BSMC5973.i
Client ID: CV0978F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

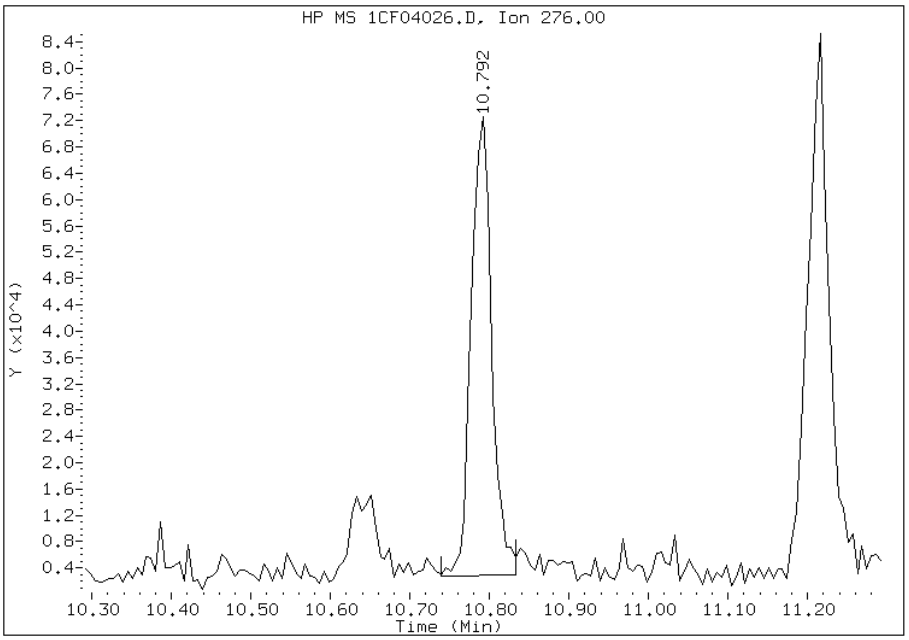
Processing Integration Results

RT: 10.79

Response: 124276

Amount: 2

Conc: 514



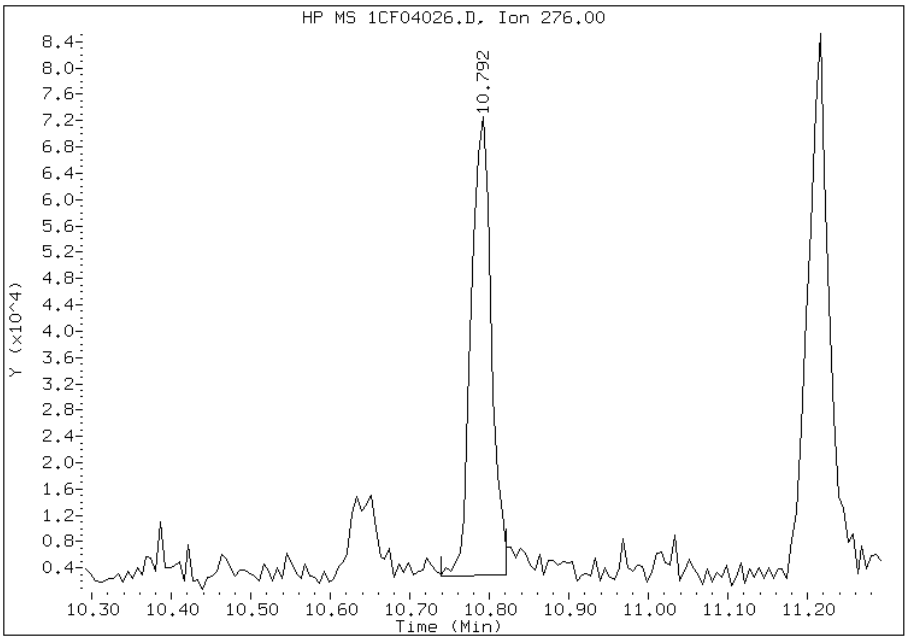
Manual Integration Results

RT: 10.79

Response: 121813

Amount: 2

Conc: 505



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978G-CS | Lab Sample ID: 680-90723-17

Matrix: Solid | Lab File ID: 1CF04027.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 11:15

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.95(g) | Date Analyzed: 06/04/2013 18:14

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

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

% Moisture: 27.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	64	J	220	28
120-12-7	Anthracene	140		46	23
56-55-3	Benzo[a]anthracene	890		44	21
50-32-8	Benzo[a]pyrene	1000		57	29
205-99-2	Benzo[b]fluoranthene	1800		67	34
191-24-2	Benzo[g,h,i]perylene	1100		110	24
207-08-9	Benzo[k]fluoranthene	680		44	20
218-01-9	Chrysene	1300		50	25
53-70-3	Dibenz(a,h)anthracene	240		110	23
206-44-0	Fluoranthene	1500		110	22
86-73-7	Fluorene	83	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	580		110	39
90-12-0	1-Methylnaphthalene	470		220	24
91-57-6	2-Methylnaphthalene	530		220	39
91-20-3	Naphthalene	380		220	24
85-01-8	Phenanthrene	920		44	21
129-00-0	Pyrene	1600		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04027.D
Lab Smp Id: 680-90723-A-17-A Client Smp ID: CV0978G-CS
Inj Date : 04-JUN-2013 18:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-17-a
Misc Info : 680-90723-A-17-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 27
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	27.160	% 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	4.045	4.045	(1.000)	2787386	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1874725	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3304621	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	129253	2.51086	922.3045
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3332199	40.0000	
* 23 Perylene-d12	264	9.409	9.409	(1.000)	3375861	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	81864	1.04074	382.2895
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	62934	1.44244	529.8468
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	55377	1.29005	473.8677
5 Acenaphthylene	152	5.045	5.045	(0.983)	12542	0.17451	64.1029(Q)
7 Acenaphthene	154	5.151	5.151	(1.003)	7236	0.16055	58.9759
9 Fluorene	166	5.474	5.480	(1.066)	12950	0.22519	82.7197
11 Phenanthrene	178	6.115	6.121	(1.002)	245103	2.51047	922.1599
12 Anthracene	178	6.151	6.157	(1.008)	33498	0.37035	136.0380

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.256	6.257	(1.025)	32539	0.50001	183.6669
15 Fluoranthene	202	6.968	6.968	(1.142)	405071	4.05908	1491.0076
16 Pyrene	202	7.139	7.145	(0.885)	383538	4.26249	1565.7247
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	222100	2.41719	887.8957
19 Chrysene	228	8.086	8.092	(1.002)	323688	3.49894	1285.2522
20 Benzo(b)fluoranthene	252	9.003	9.004	(0.957)	406986	4.90680	1802.3971(M)
21 Benzo(k)fluoranthene	252	9.015	9.027	(0.958)	172184	1.85866	682.7348(M)
22 Benzo(a)pyrene	252	9.339	9.345	(0.992)	221391	2.71074	995.7249
24 Indeno(1,2,3-cd)pyrene	276	10.791	10.792	(1.147)	129174	1.58910	583.7193(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	46777	0.64919	238.4640
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	226917	2.89337	1062.8109(M)

QC Flag Legend

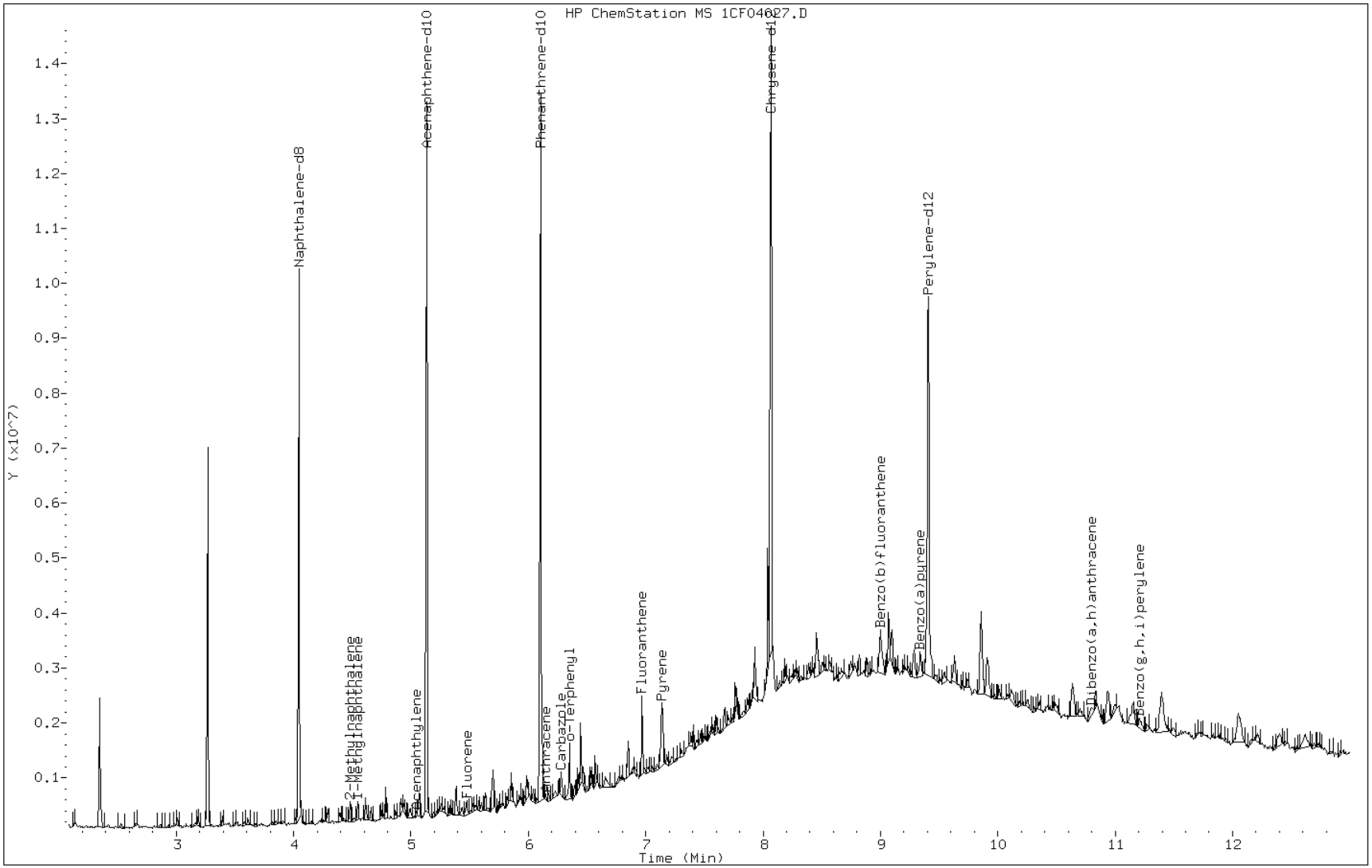
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC



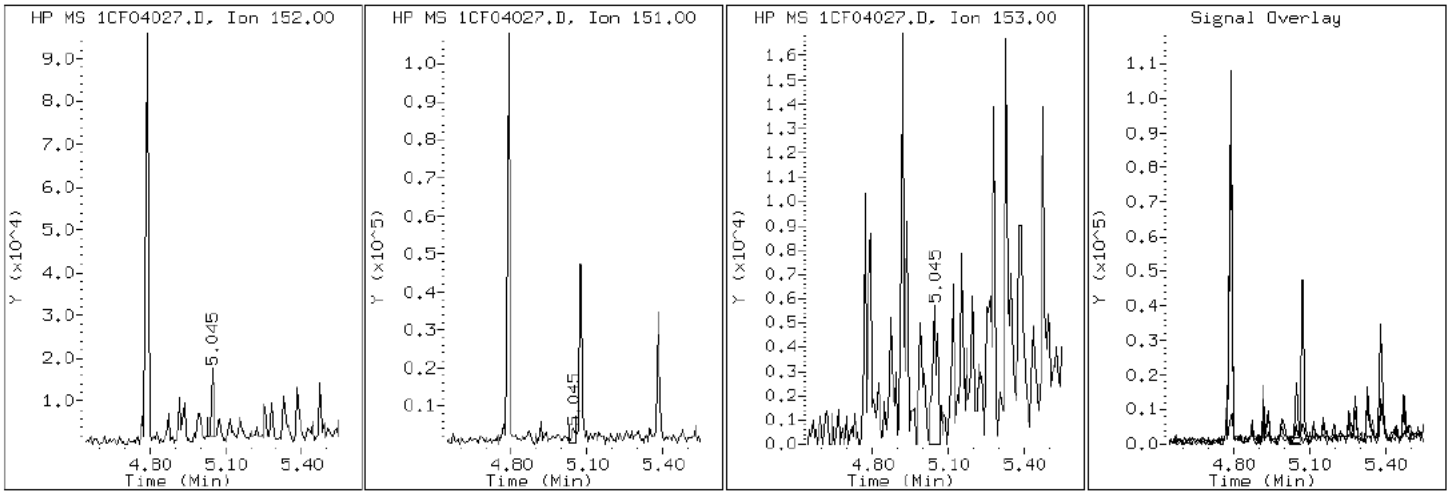
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

5 Acenaphthylene



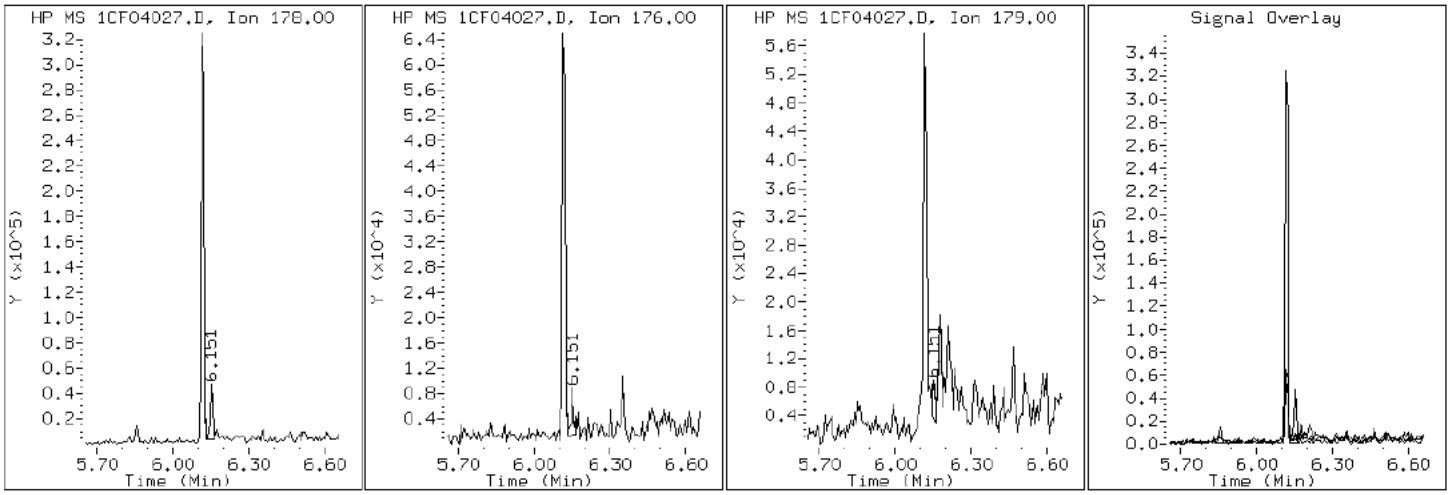
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

12 Anthracene



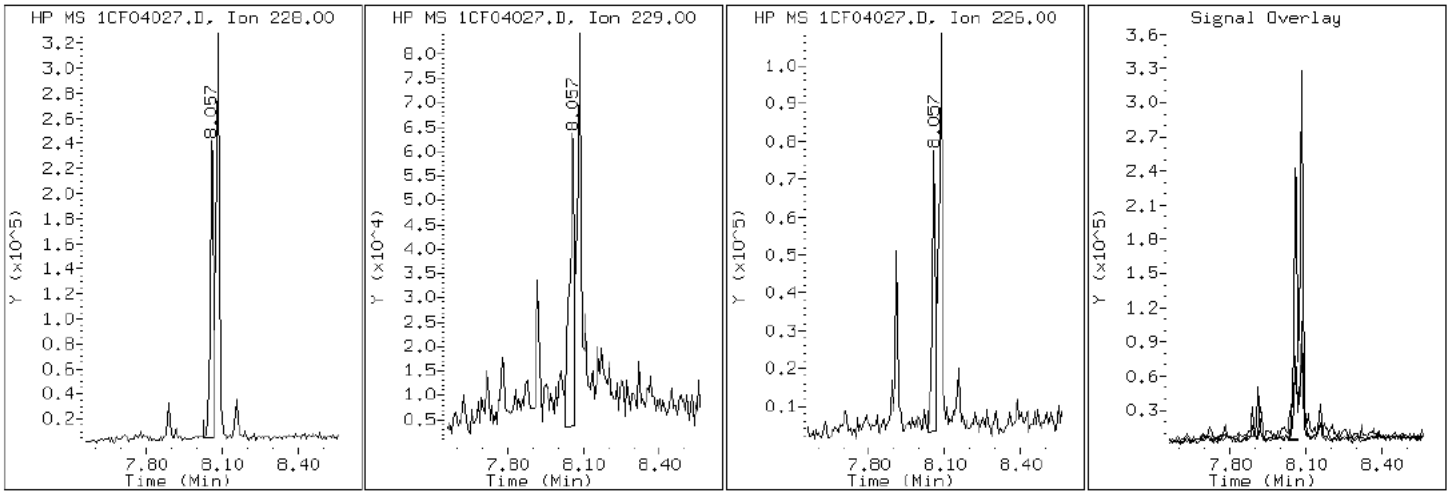
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

17 Benzo(a)anthracene



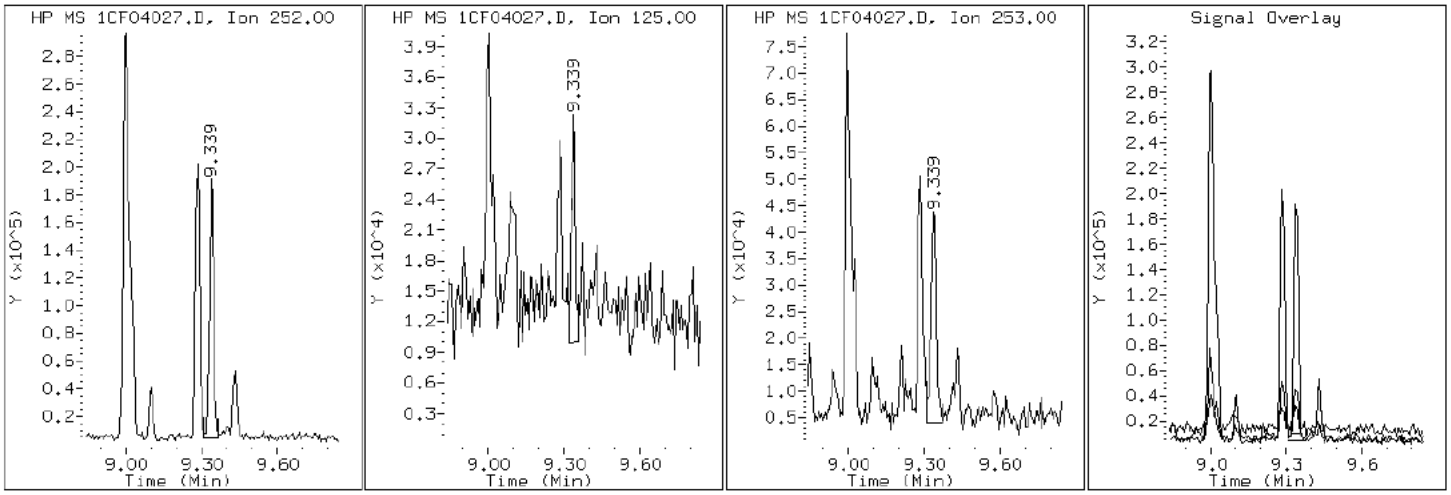
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

22 Benzo(a)pyrene



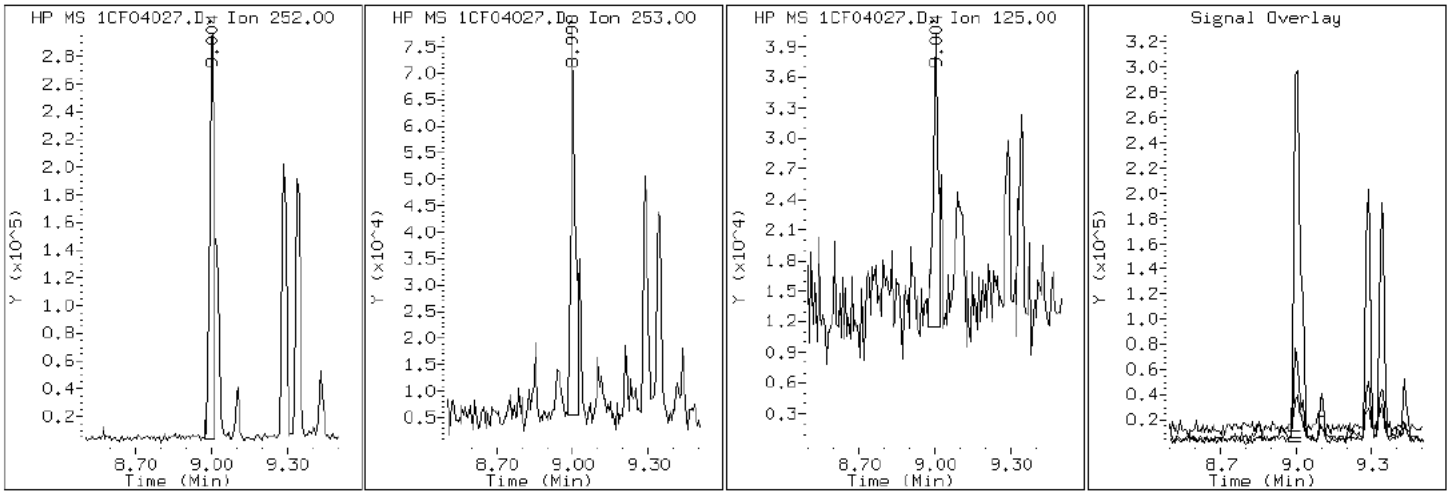
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



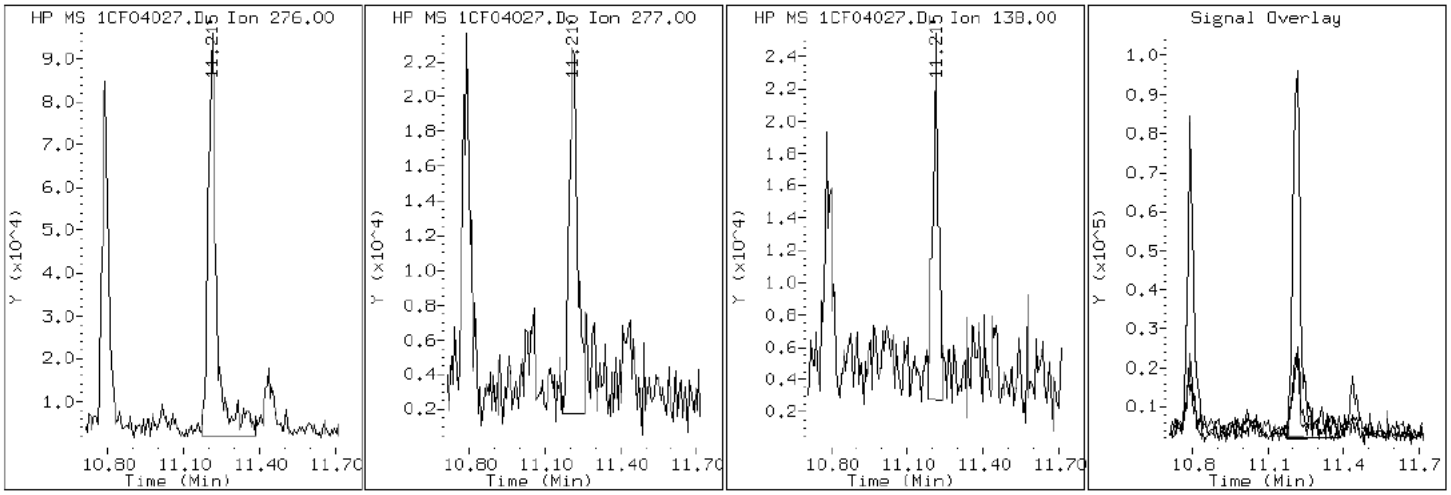
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



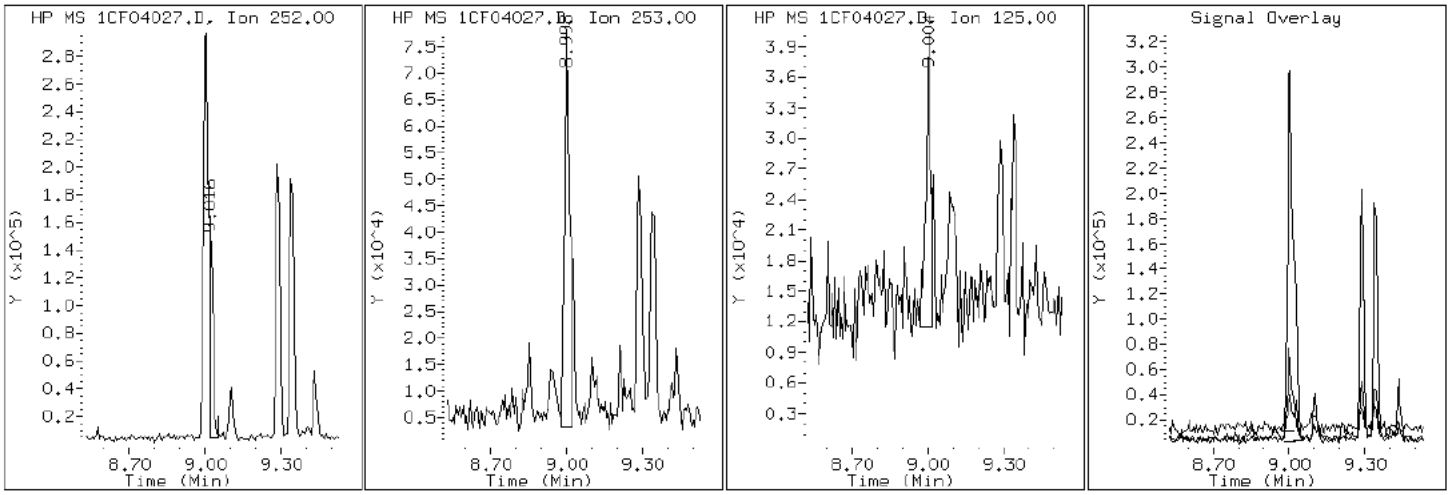
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



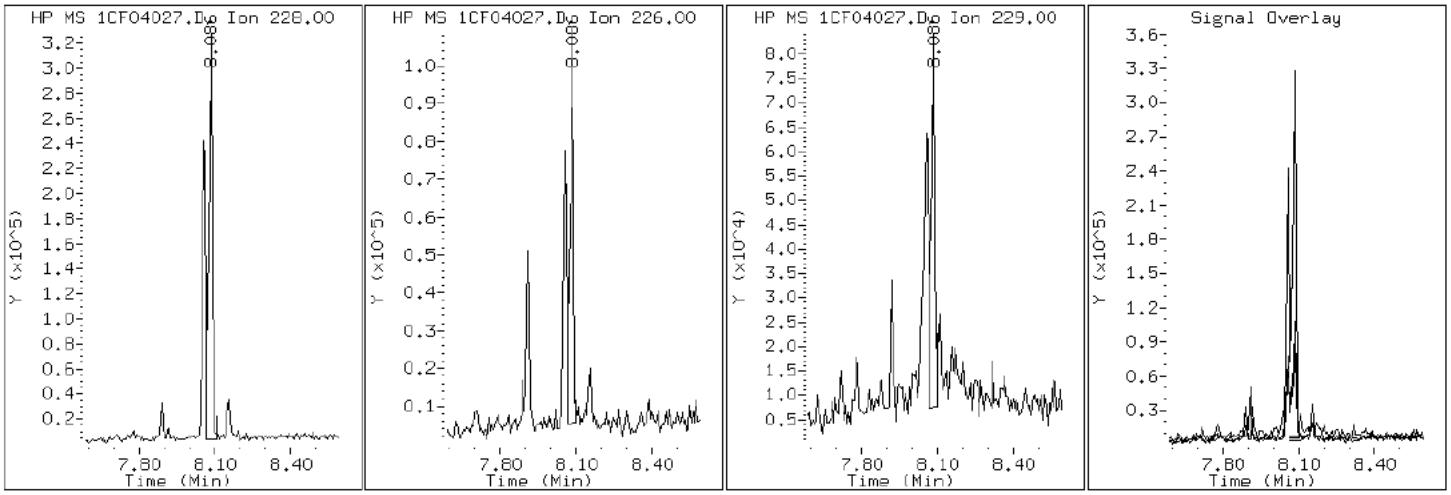
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

19 Chrysene



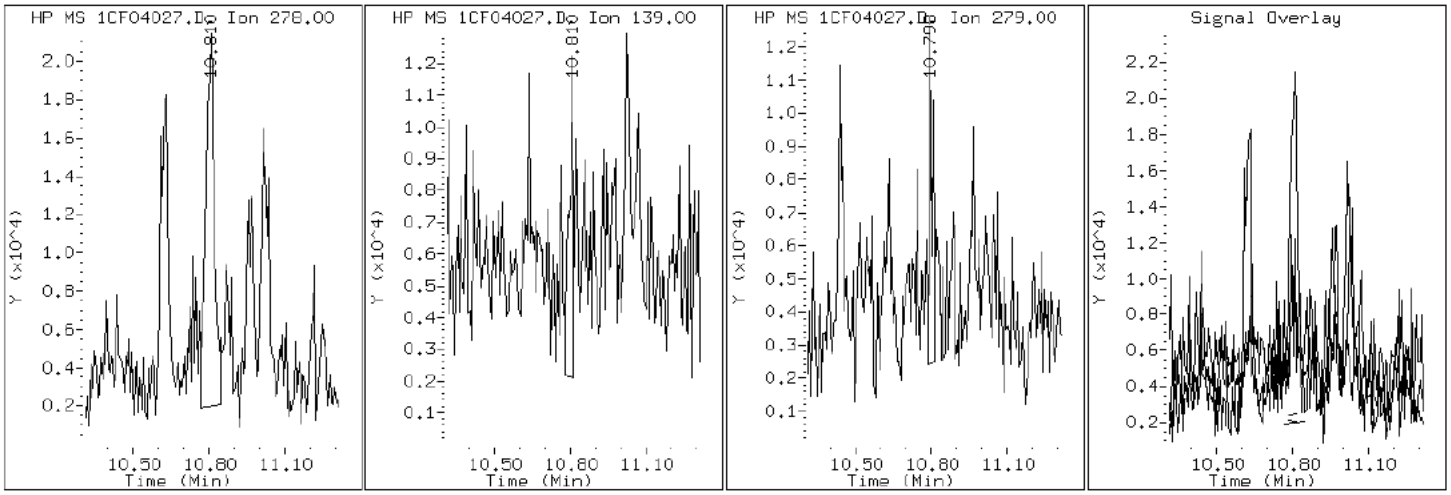
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



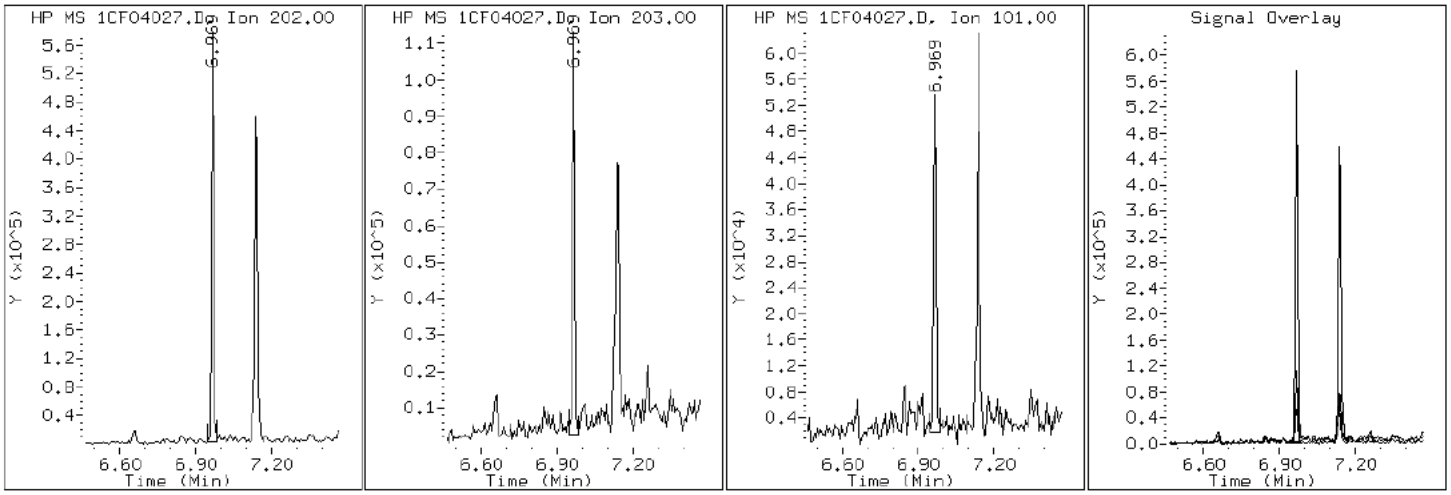
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

15 Fluoranthene



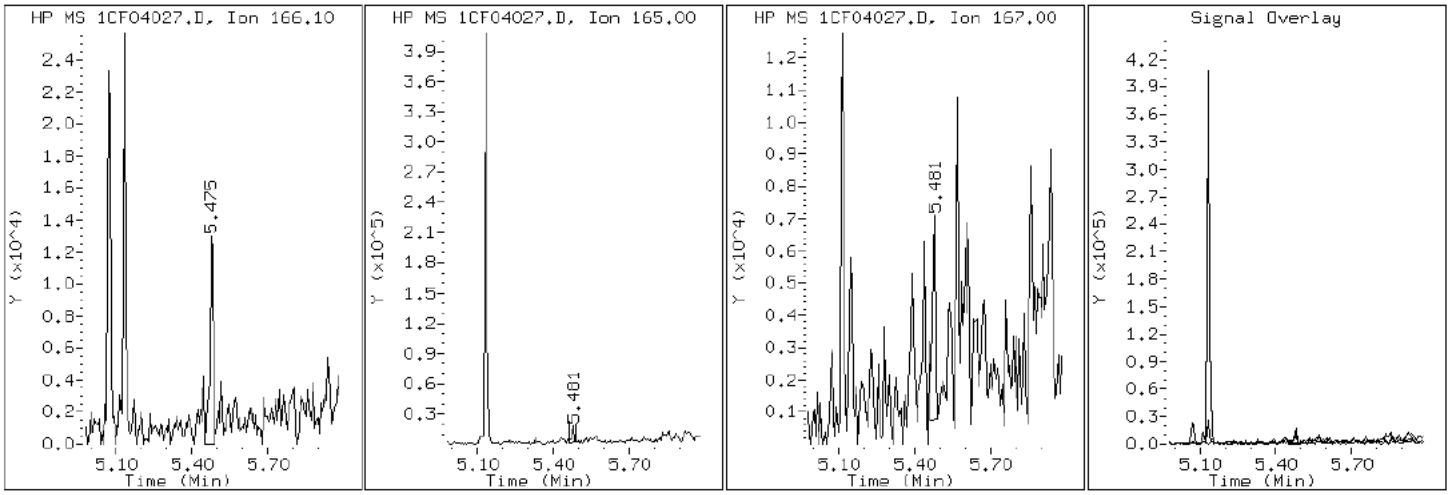
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

9 Fluorene



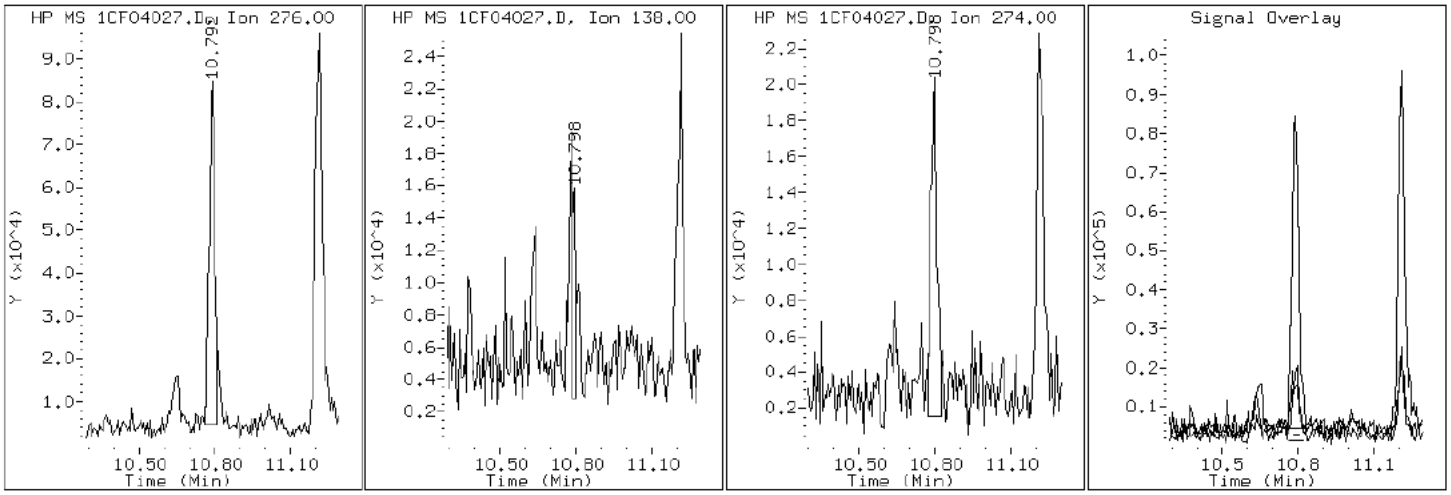
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

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



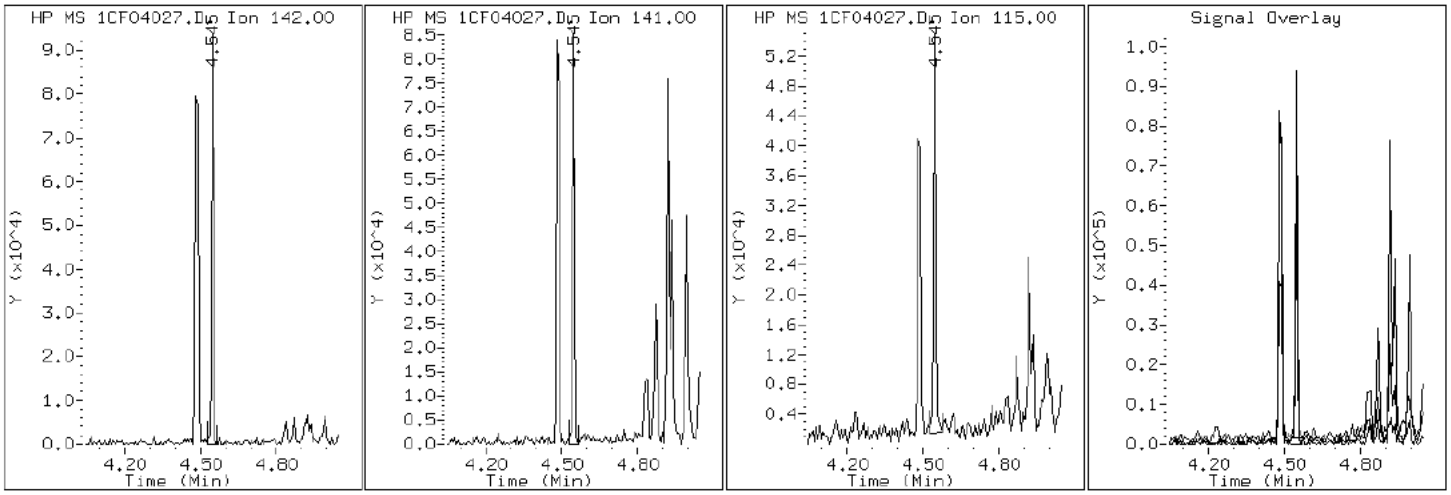
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

4 1-Methylnaphthalene



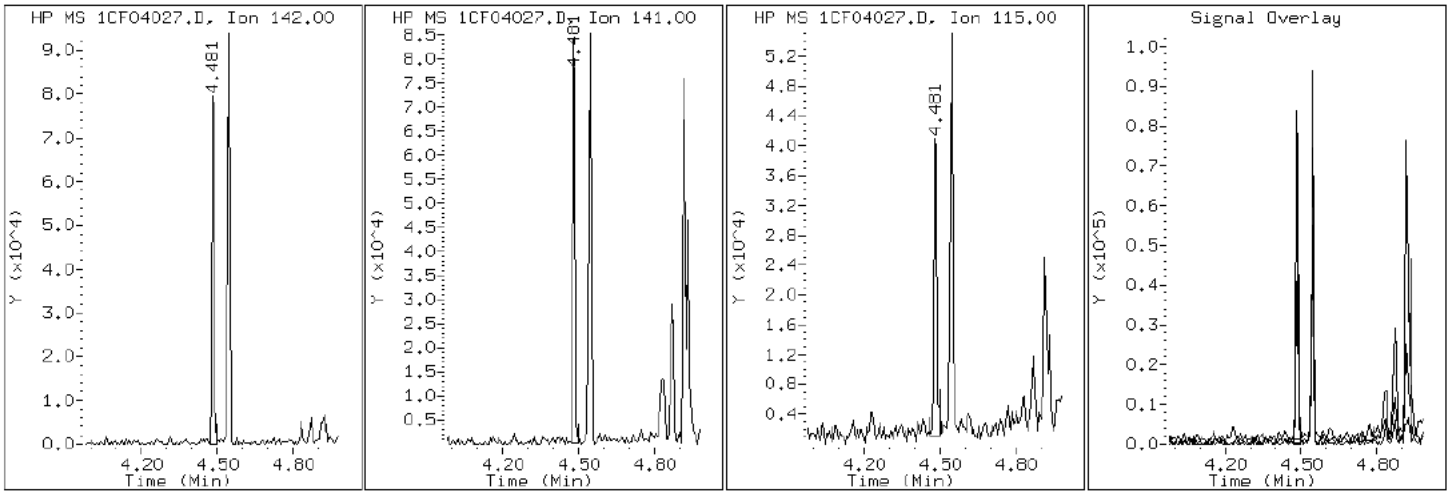
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

3 2-Methylnaphthalene



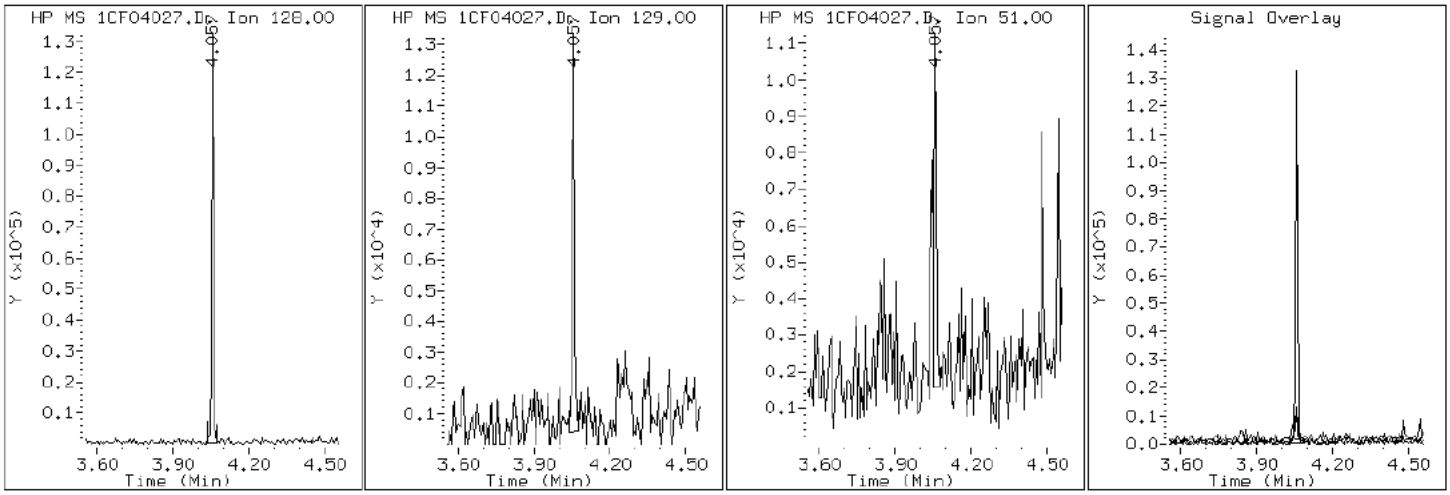
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

2 Naphthalene



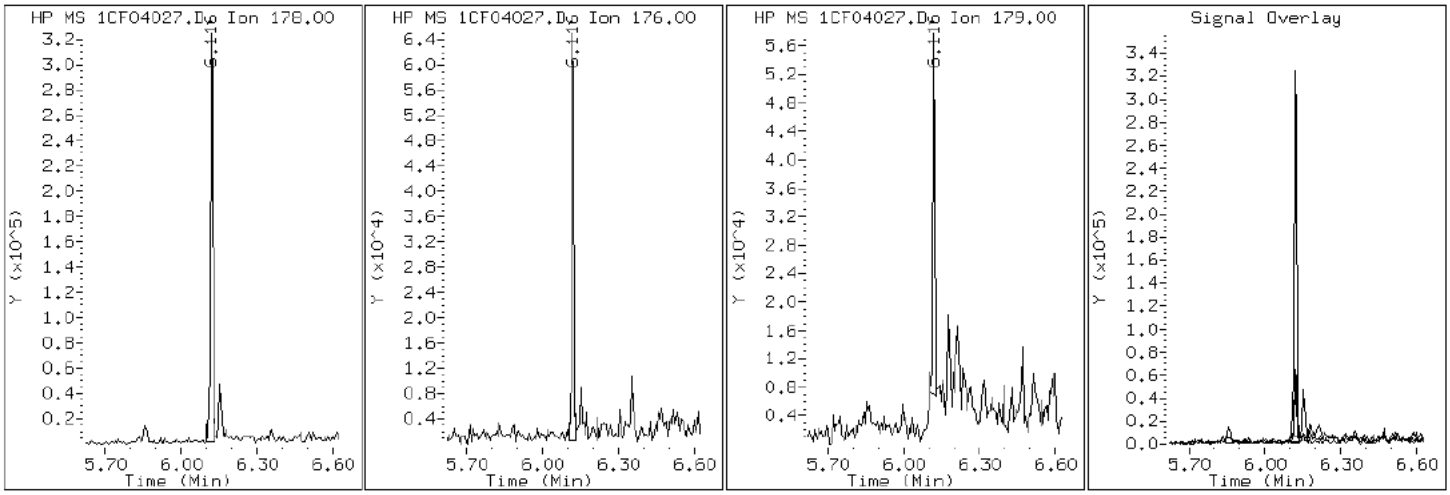
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

11 Phenanthrene



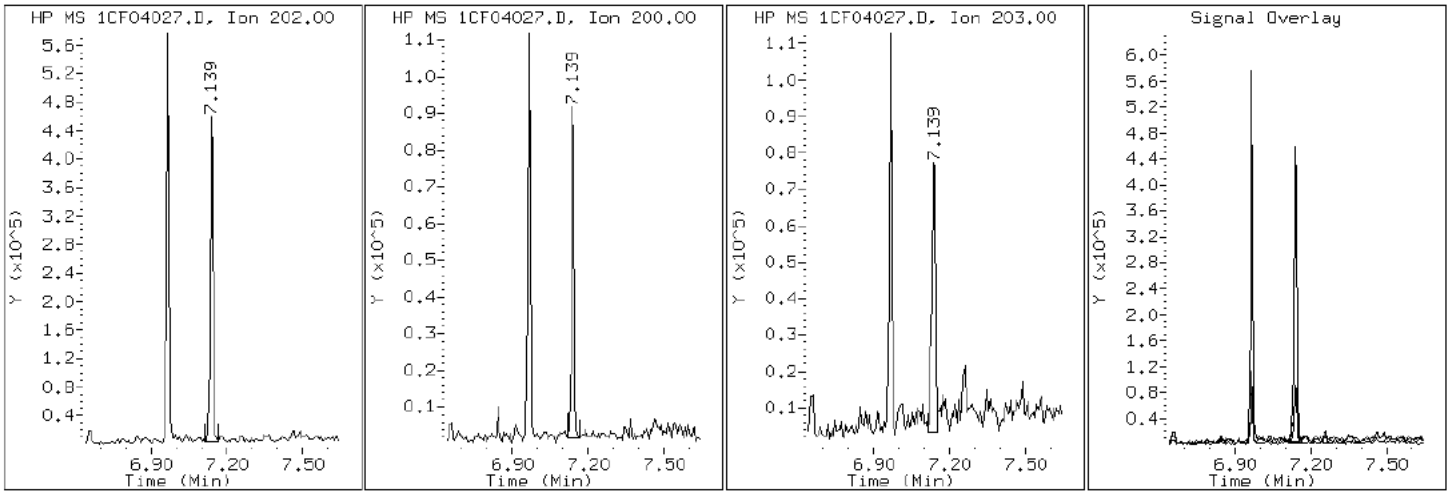
Data File: 1CF04027.D

Date: 04-JUN-2013 18:14

Client ID: CV0978G-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04027.D
Inj. Date and Time: 04-JUN-2013 18:14
Instrument ID: BSMC5973.i
Client ID: CV0978G-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

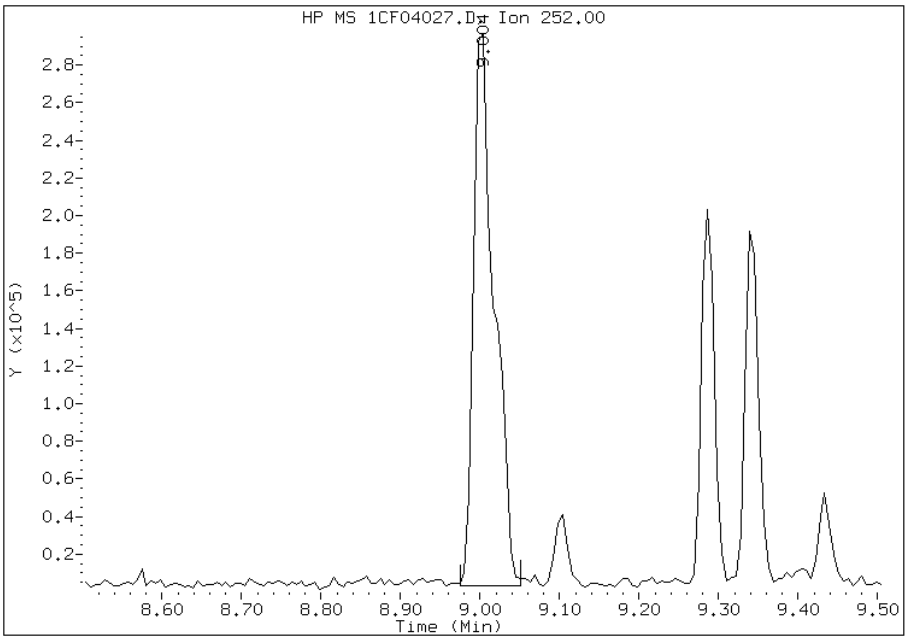
Processing Integration Results

RT: 9.00

Response: 529472

Amount: 6

Conc: 2345



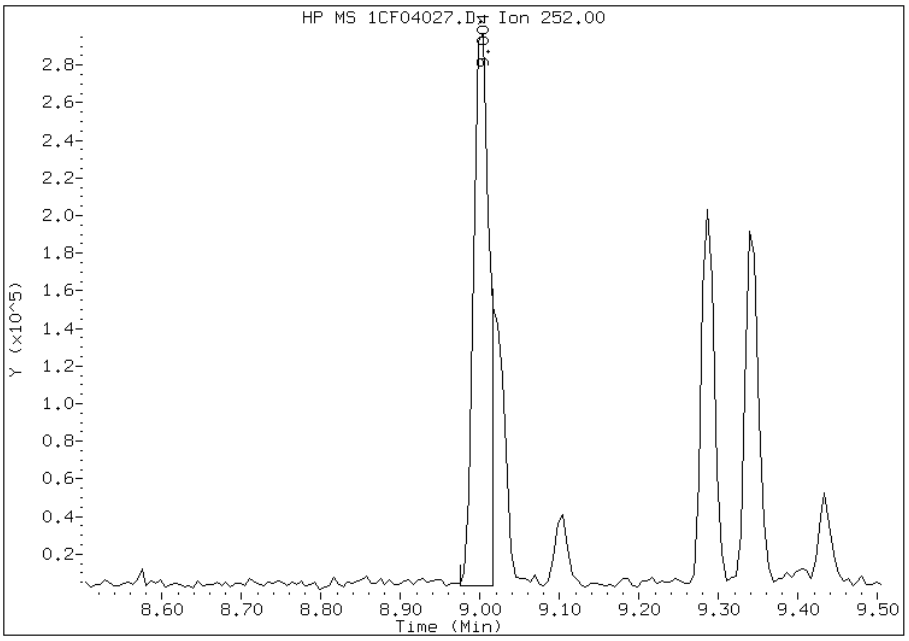
Manual Integration Results

RT: 9.00

Response: 406986

Amount: 5

Conc: 1802



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04027.D
Inj. Date and Time: 04-JUN-2013 18:14
Instrument ID: BSMC5973.i
Client ID: CV0978G-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

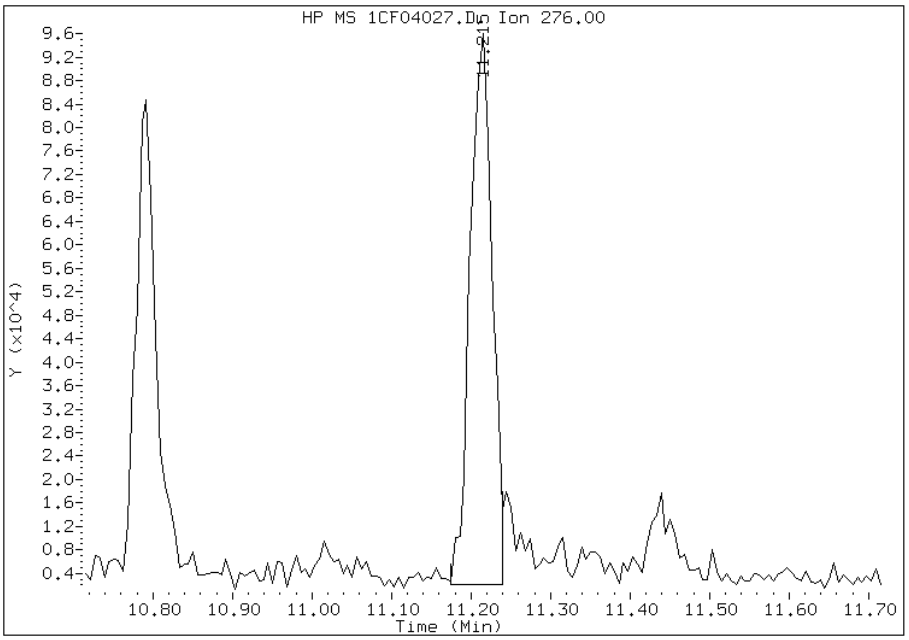
Processing Integration Results

RT: 11.22

Response: 180233

Amount: 2

Conc: 844



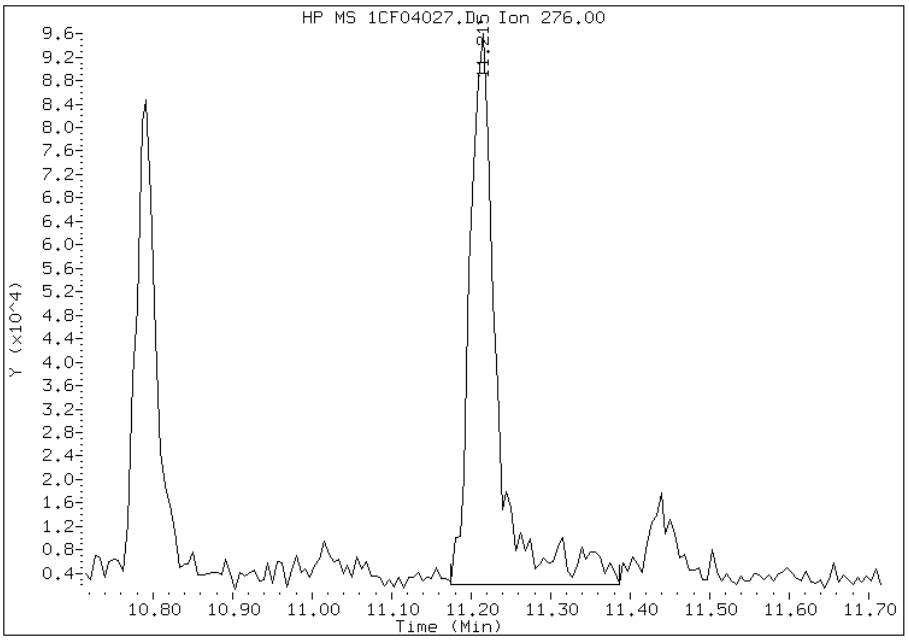
Manual Integration Results

RT: 11.22

Response: 226917

Amount: 3

Conc: 1063



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04027.D
Inj. Date and Time: 04-JUN-2013 18:14
Instrument ID: BSMC5973.i
Client ID: CV0978G-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

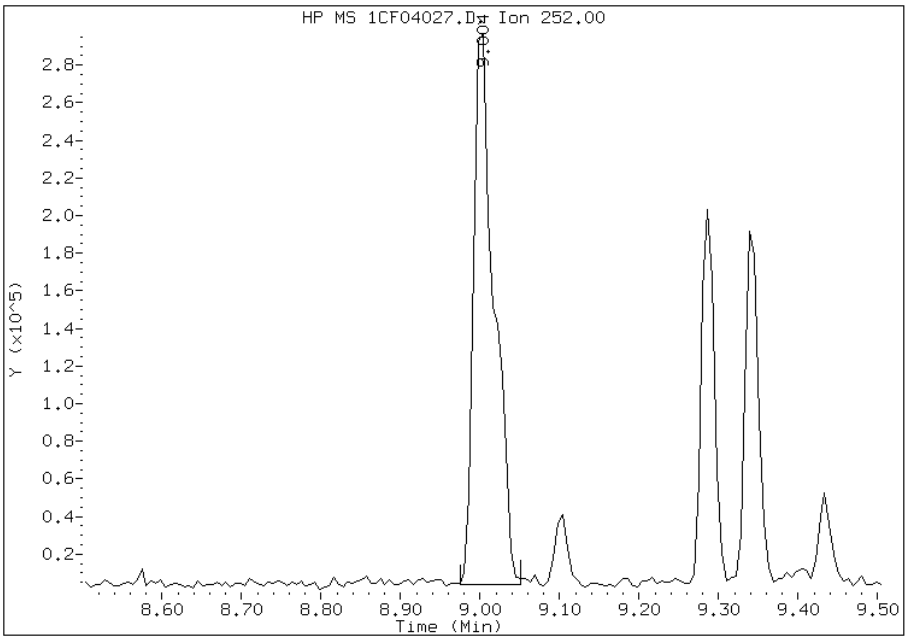
Processing Integration Results

RT: 9.00

Response: 527246

Amount: 6

Conc: 2091



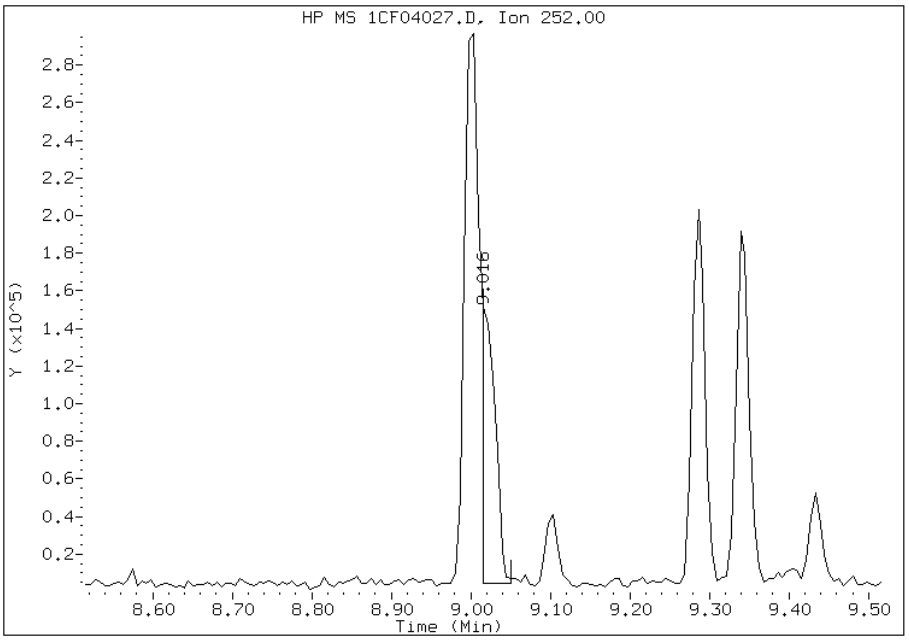
Manual Integration Results

RT: 9.02

Response: 172184

Amount: 2

Conc: 683



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 14:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04027.D
Inj. Date and Time: 04-JUN-2013 18:14
Instrument ID: BSMC5973.i
Client ID: CV0978G-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

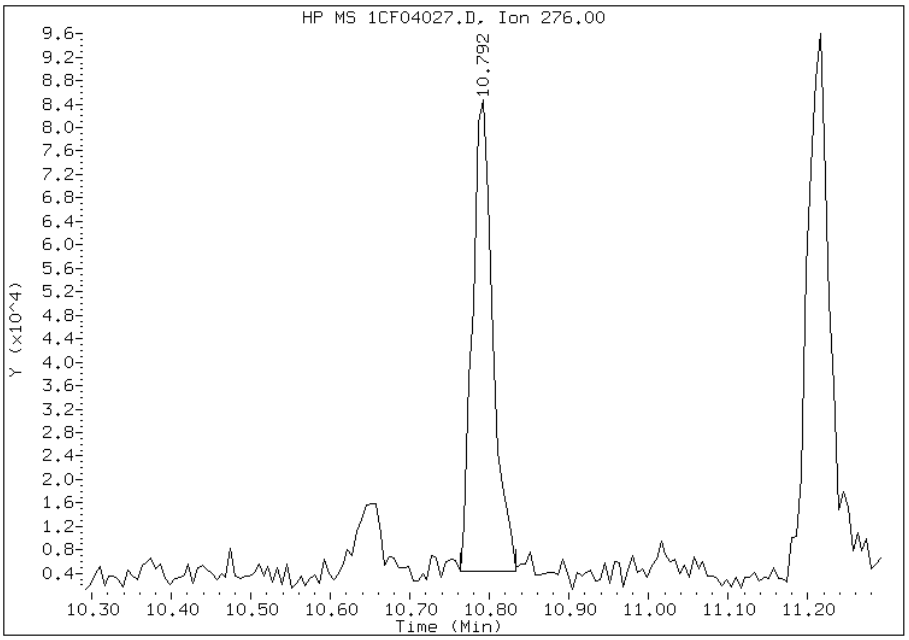
Processing Integration Results

RT: 10.79

Response: 140813

Amount: 2

Conc: 631



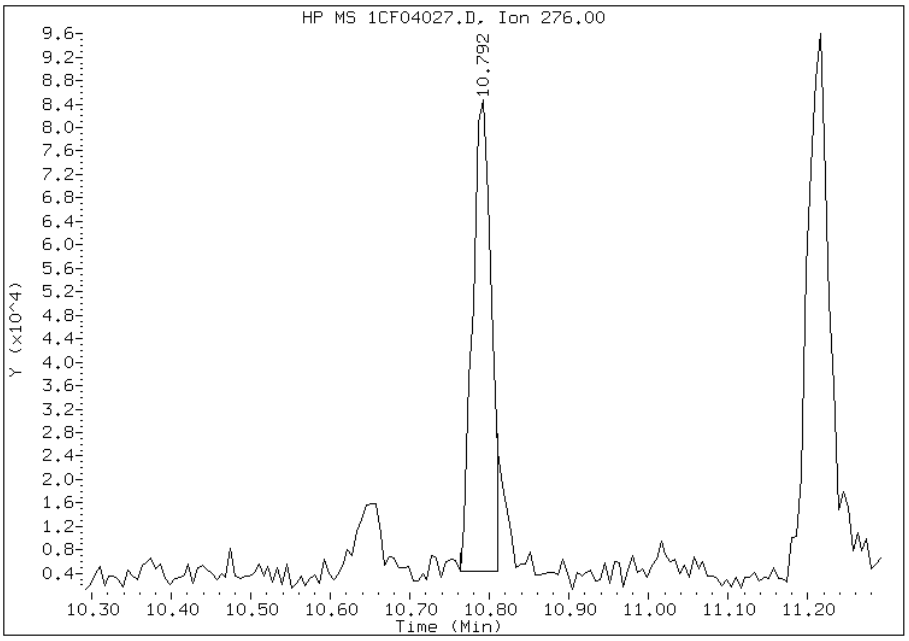
Manual Integration Results

RT: 10.79

Response: 129174

Amount: 2

Conc: 584



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV0978H-CS | Lab Sample ID: 680-90723-18

Matrix: Solid | Lab File ID: 1CF04028.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 11:30

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.16(g) | Date Analyzed: 06/04/2013 18:33

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.: 138098 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	52	J	210	26
120-12-7	Anthracene	83		44	22
56-55-3	Benzo[a]anthracene	580		42	21
50-32-8	Benzo[a]pyrene	660		55	28
205-99-2	Benzo[b]fluoranthene	1100		65	32
191-24-2	Benzo[g,h,i]perylene	550		110	23
207-08-9	Benzo[k]fluoranthene	390		42	19
218-01-9	Chrysene	800		48	24
53-70-3	Dibenz(a,h)anthracene	160		110	22
206-44-0	Fluoranthene	870		110	21
86-73-7	Fluorene	59	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	420		110	38
90-12-0	1-Methylnaphthalene	280		210	23
91-57-6	2-Methylnaphthalene	350		210	38
91-20-3	Naphthalene	200	J	210	23
85-01-8	Phenanthrene	580		42	21
129-00-0	Pyrene	890		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04028.D
Lab Smp Id: 680-90723-A-18-A Client Smp ID: CV0978H-CS
Inj Date : 04-JUN-2013 18:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-18-a
Misc Info : 680-90723-A-18-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 28
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	15.160	Weight Extracted
M	25.259	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2668683	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1794797	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3195384	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	108403	2.17782	768.8161
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	3081128	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3104861	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	43530	0.57801	204.0502
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	41125	0.98451	347.5521
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	32109	0.78127	275.8059
	5 Acenaphthylene	152	5.045	5.045	(0.983)	10113	0.14698	51.8874
	9 Fluorene	166	5.474	5.480	(1.066)	9182	0.16678	58.8773
	11 Phenanthrene	178	6.115	6.121	(1.002)	156020	1.65266	583.4255
	12 Anthracene	178	6.151	6.157	(1.008)	20519	0.23461	82.8219
	13 Carbazole	167	6.257	6.257	(1.025)	27235	0.44825	158.2405
	15 Fluoranthene	202	6.968	6.968	(1.142)	236710	2.45308	865.9898

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	7.139	7.145	(0.885)	208823	2.50989	886.0443
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	140758	1.65675	584.8663
19 Chrysene	228	8.086	8.092	(1.002)	194026	2.26825	800.7405
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	246642	3.23317	1141.3776(M)
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	94380	1.10772	391.0484(QM)
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	137090	1.85798	655.9056
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	85038	1.18248	417.4409(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	29191	0.44048	155.5001(M)
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	111554	1.54655	545.9657

QC Flag Legend

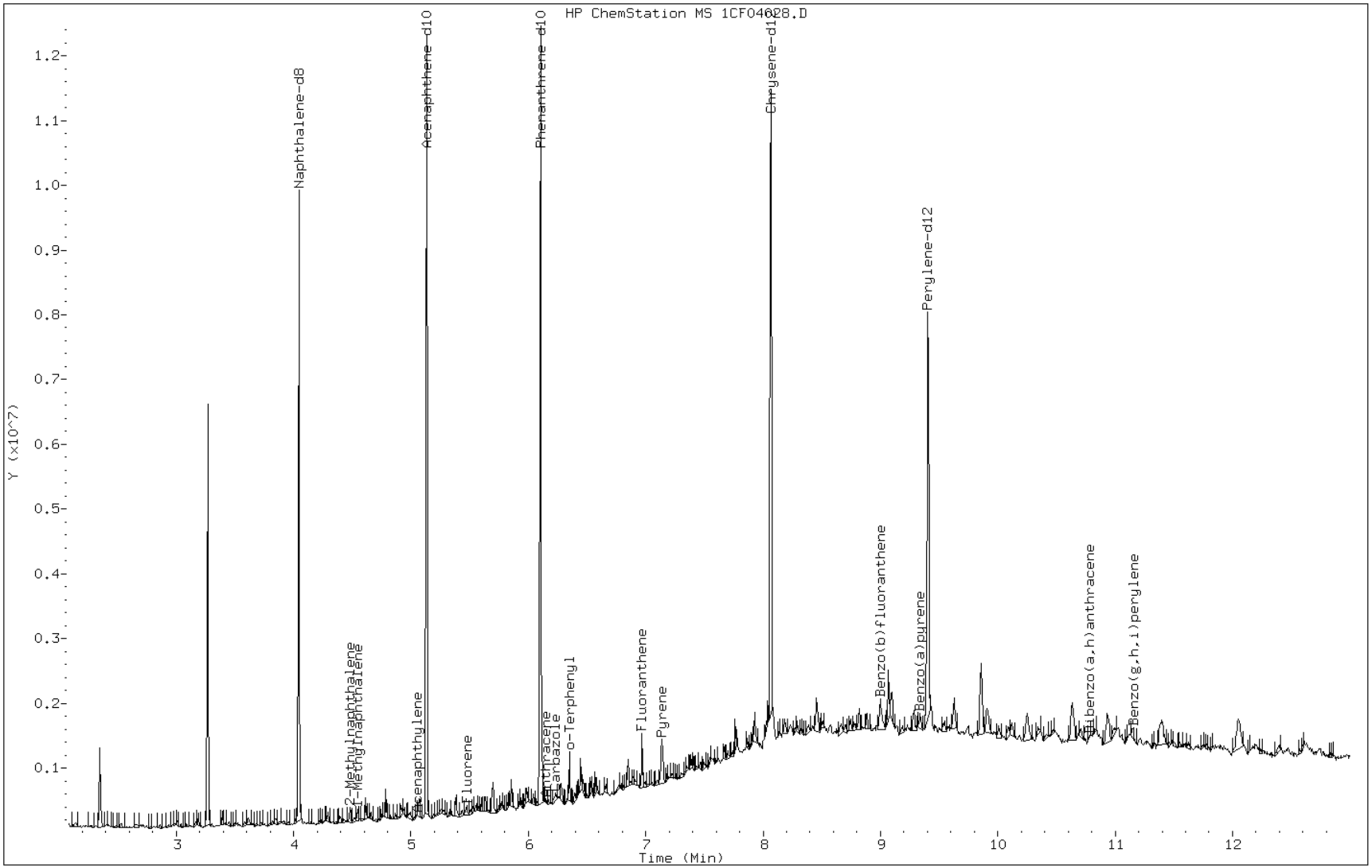
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC



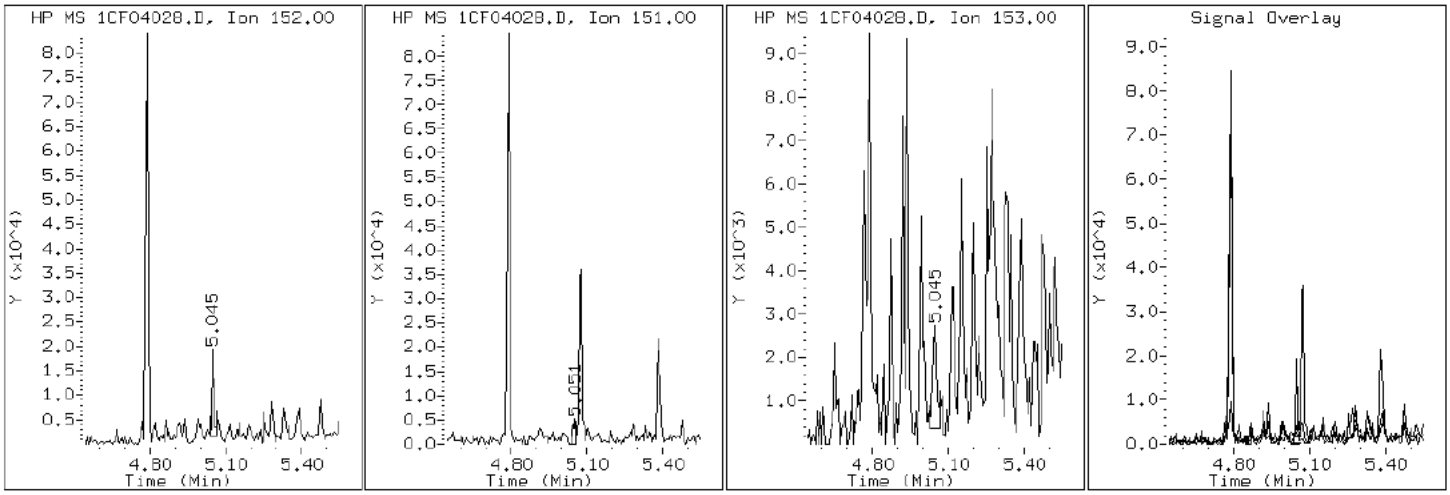
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

5 Acenaphthylene



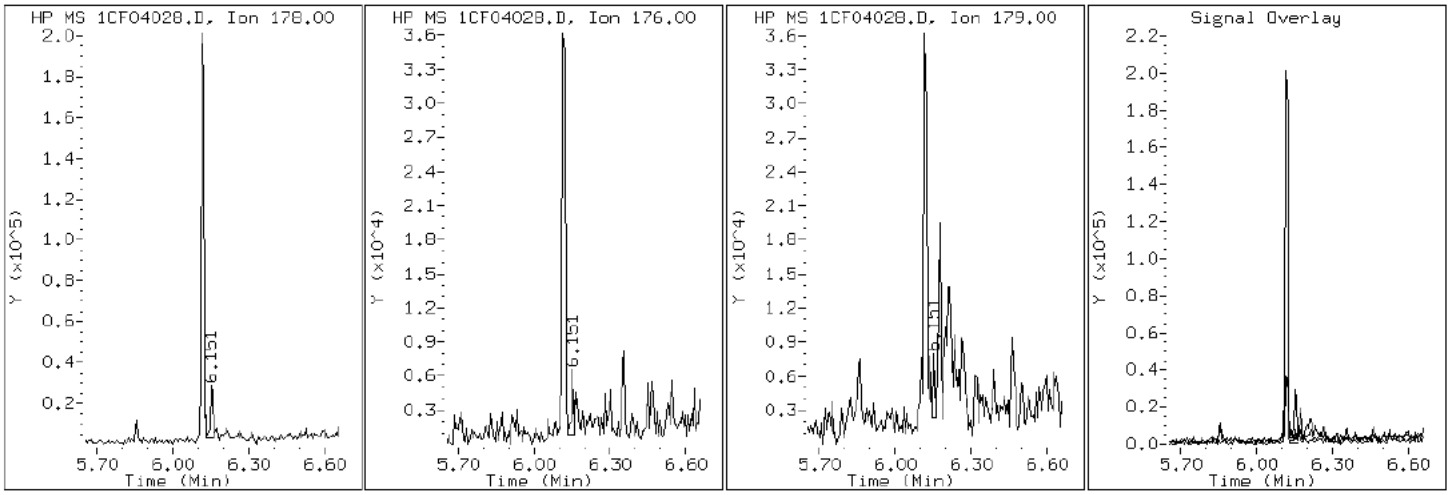
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

12 Anthracene



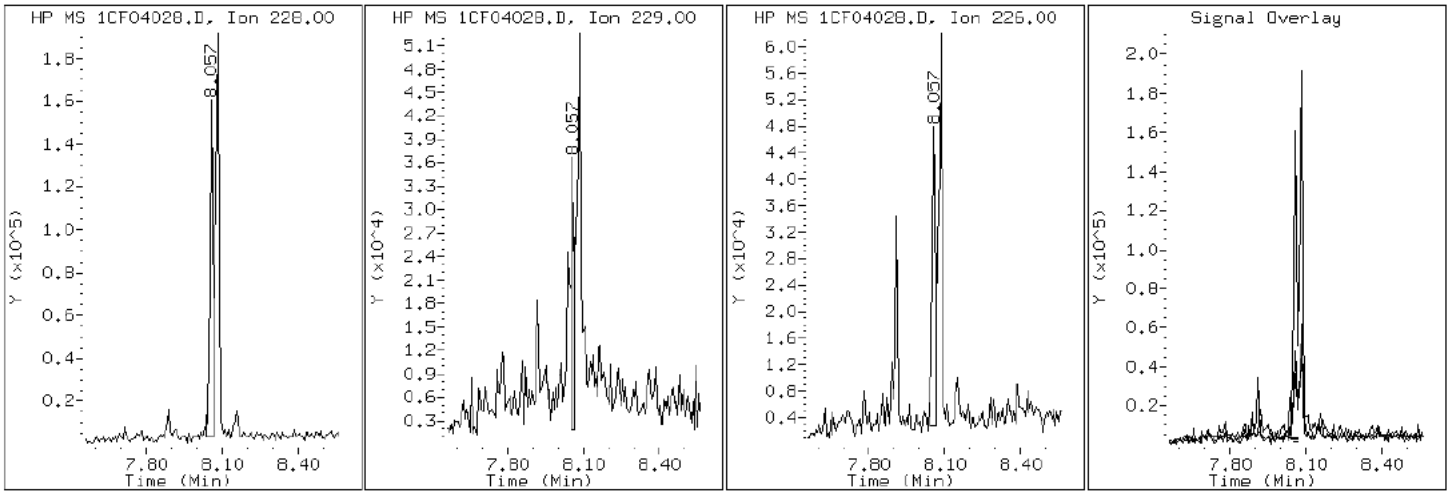
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

17 Benzo(a)anthracene



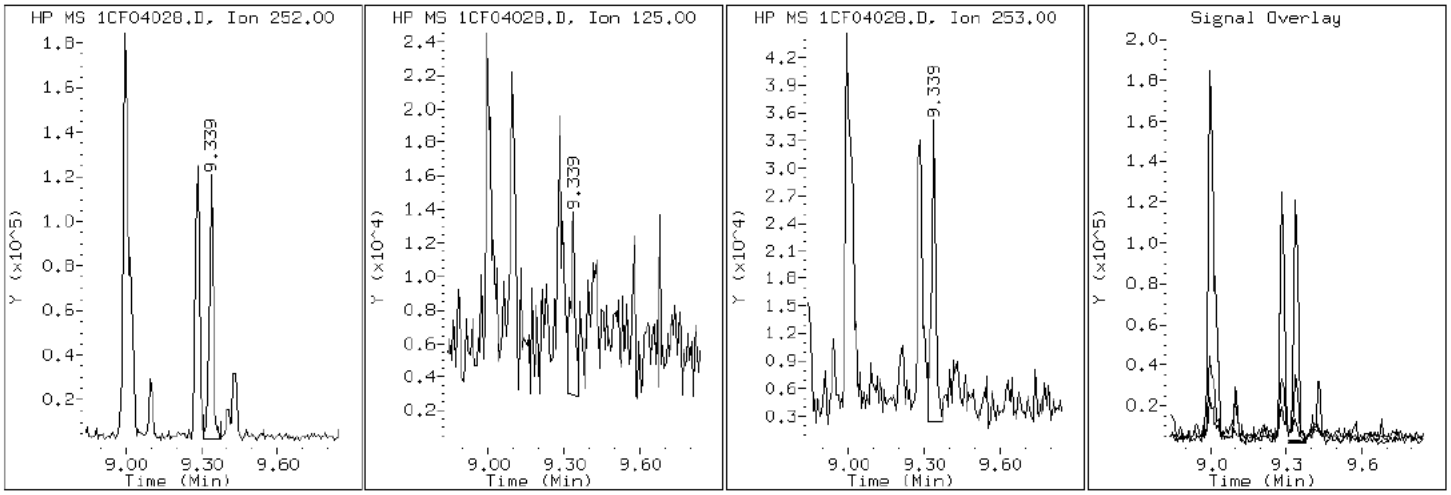
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

22 Benzo(a)pyrene



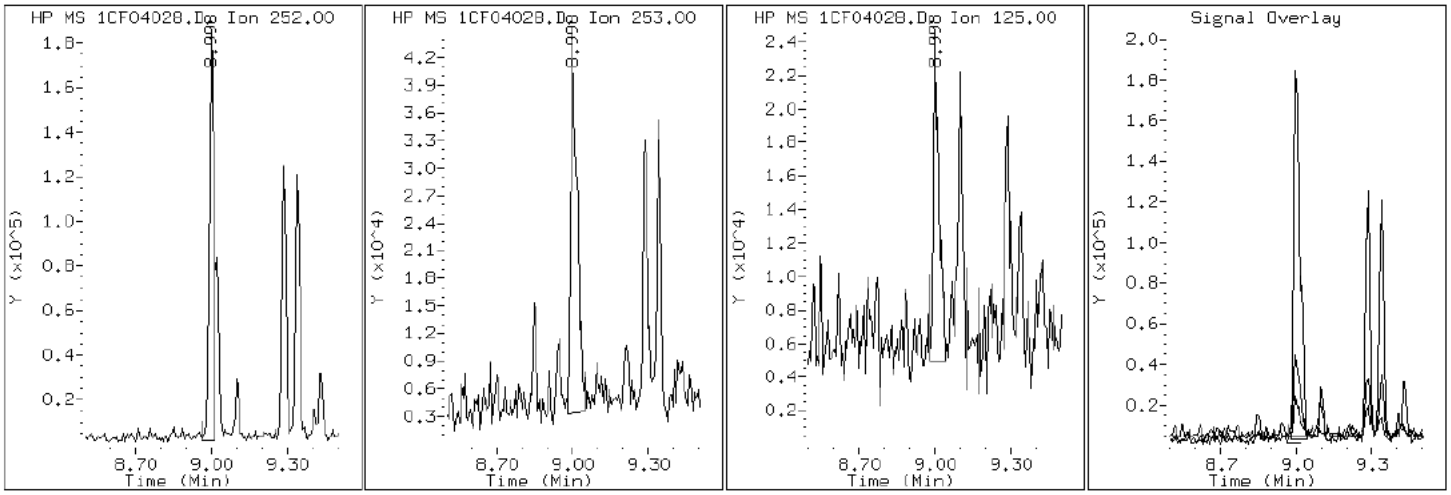
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



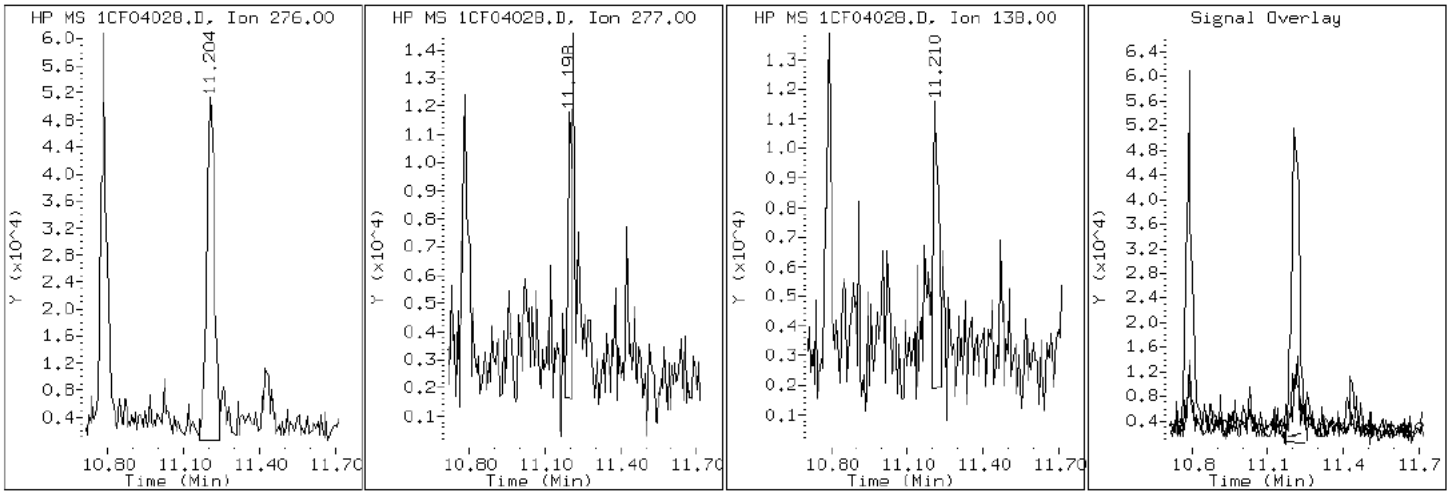
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



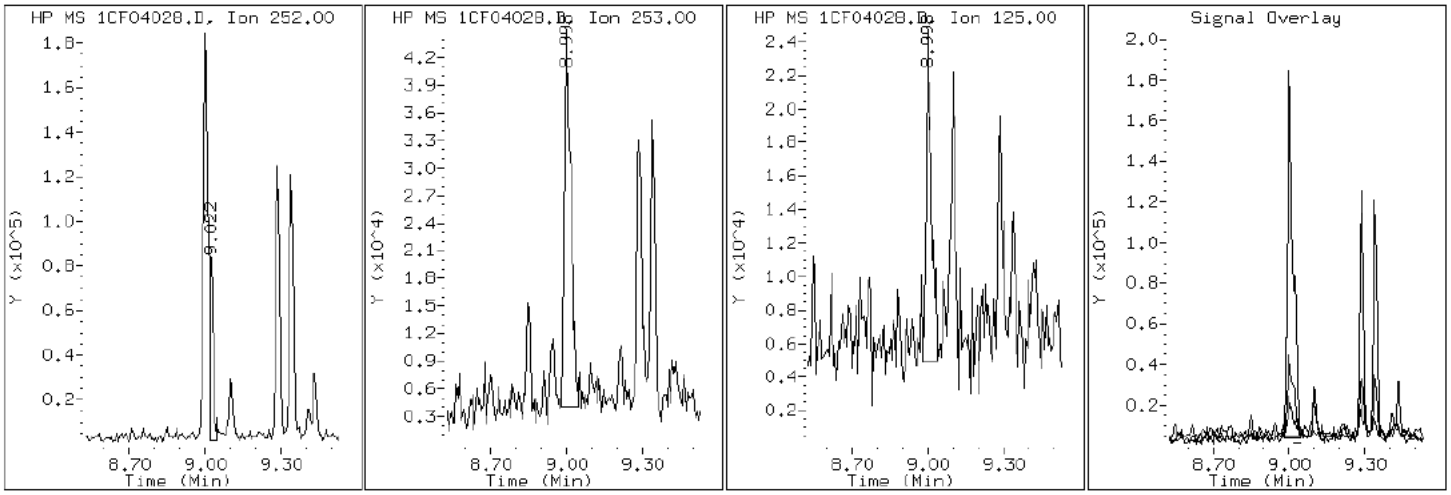
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



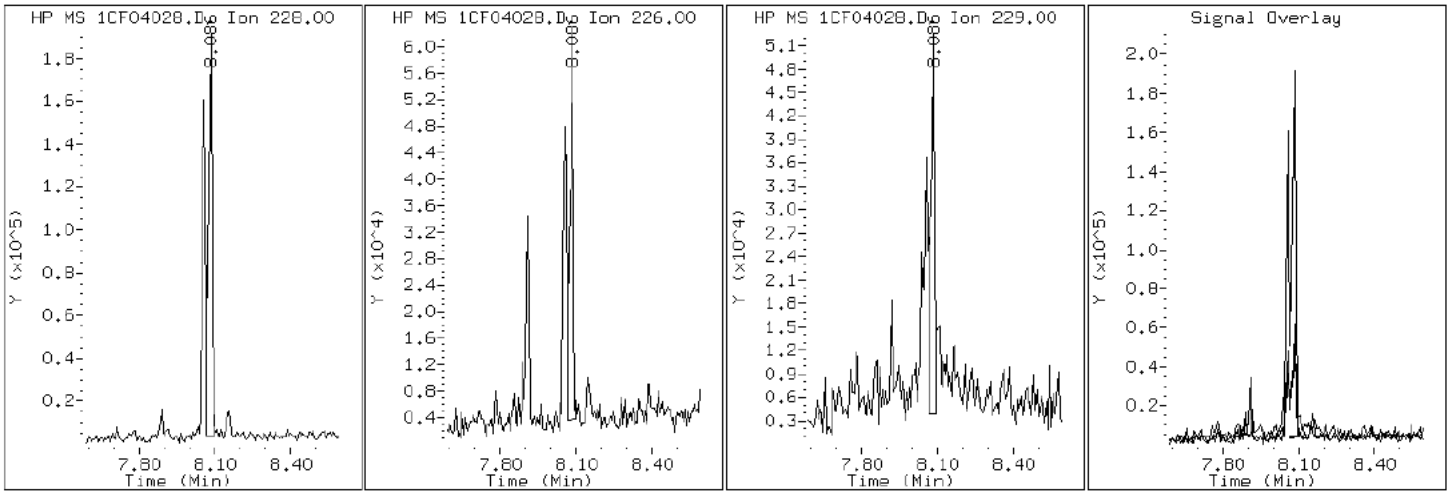
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

19 Chrysene



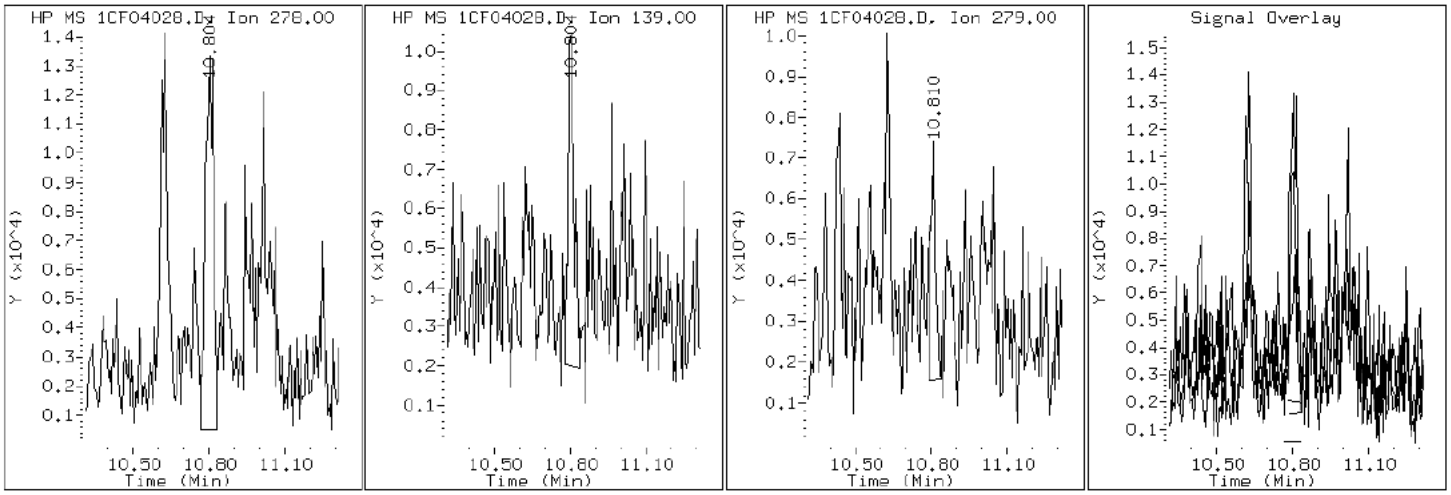
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



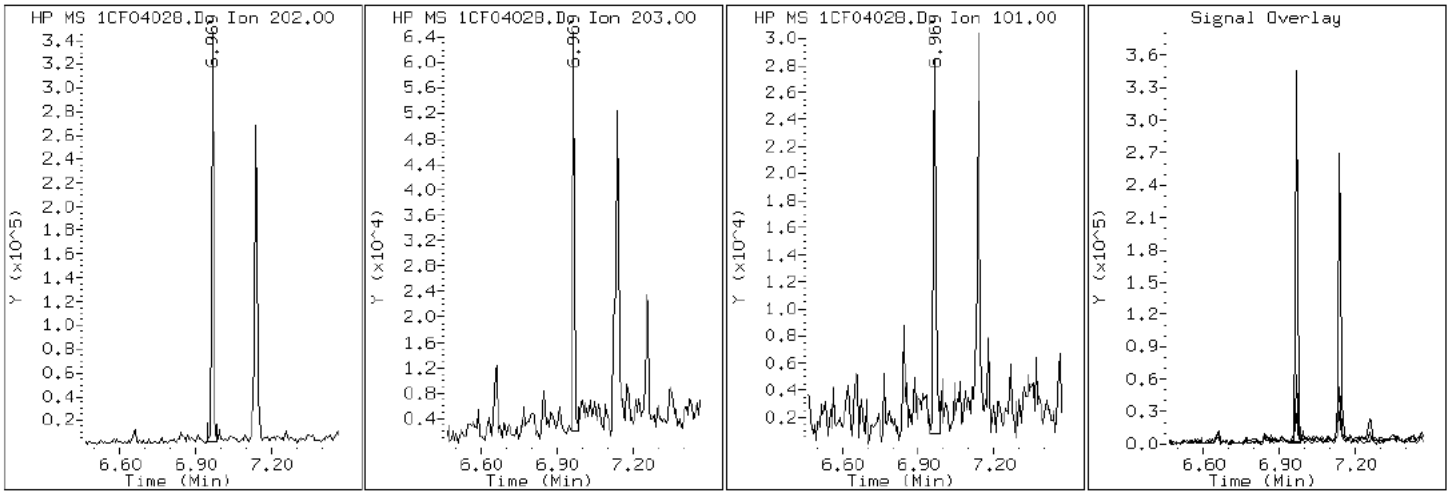
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

15 Fluoranthene



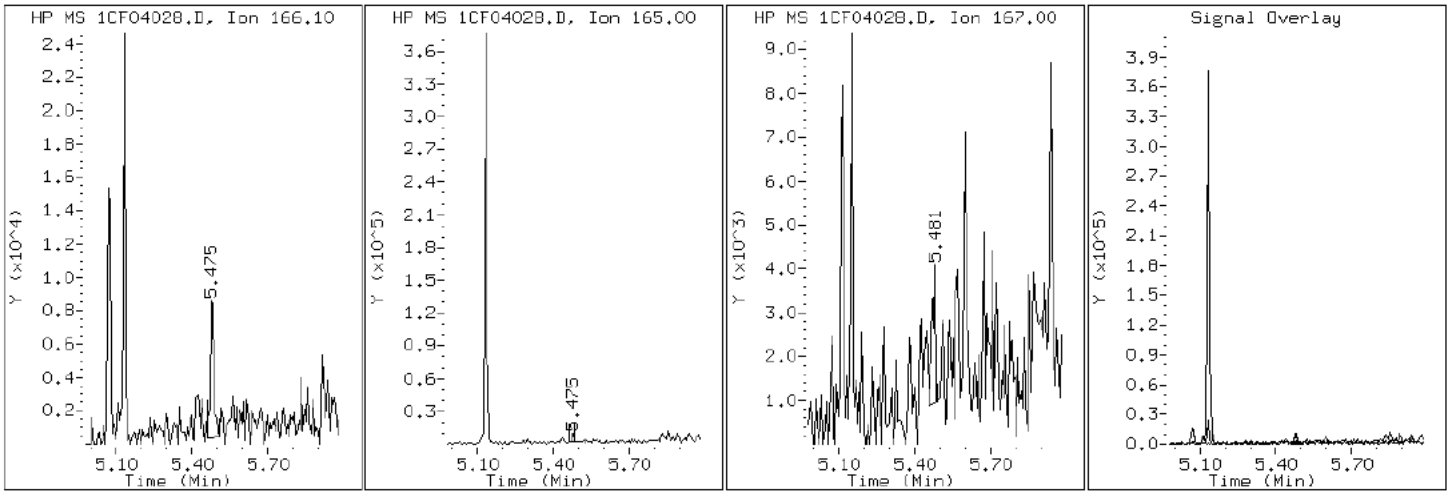
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

9 Fluorene



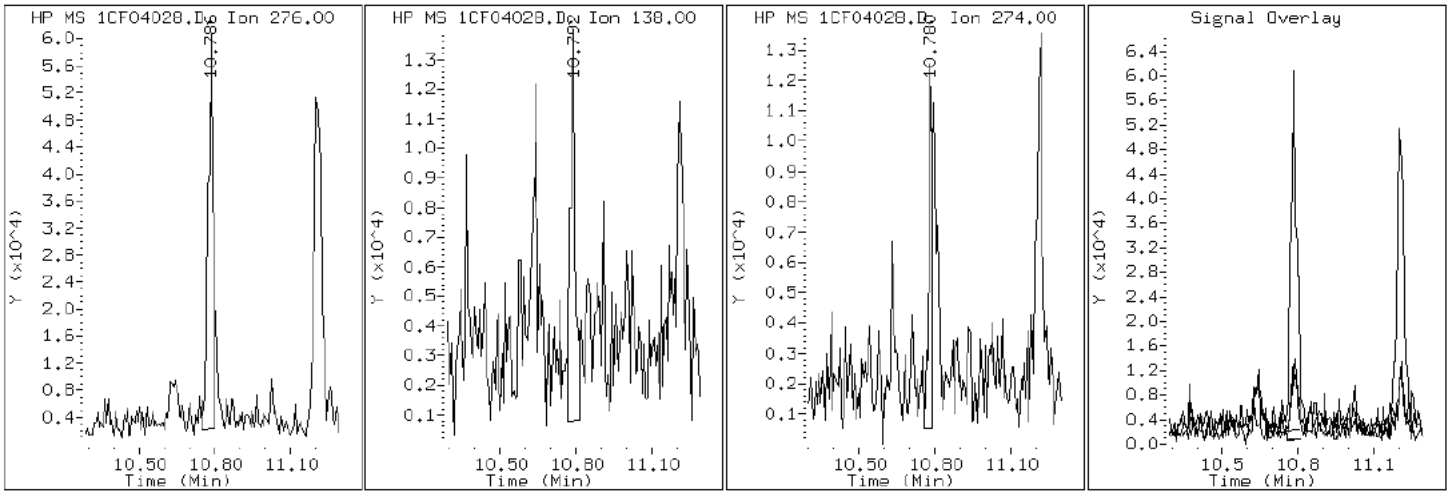
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

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



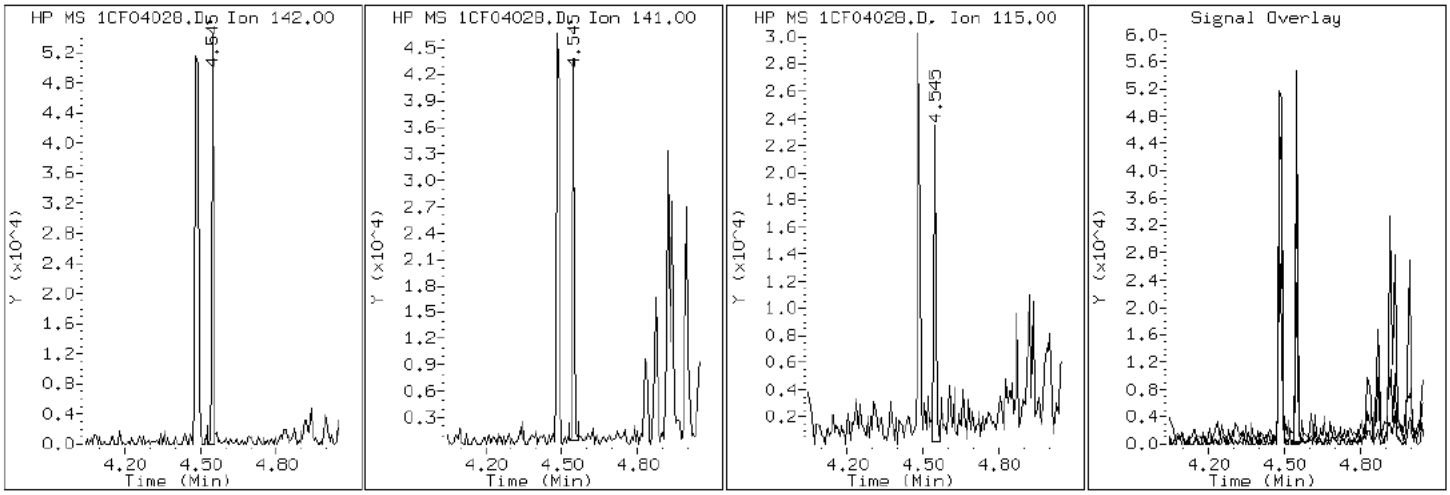
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

4 1-Methylnaphthalene



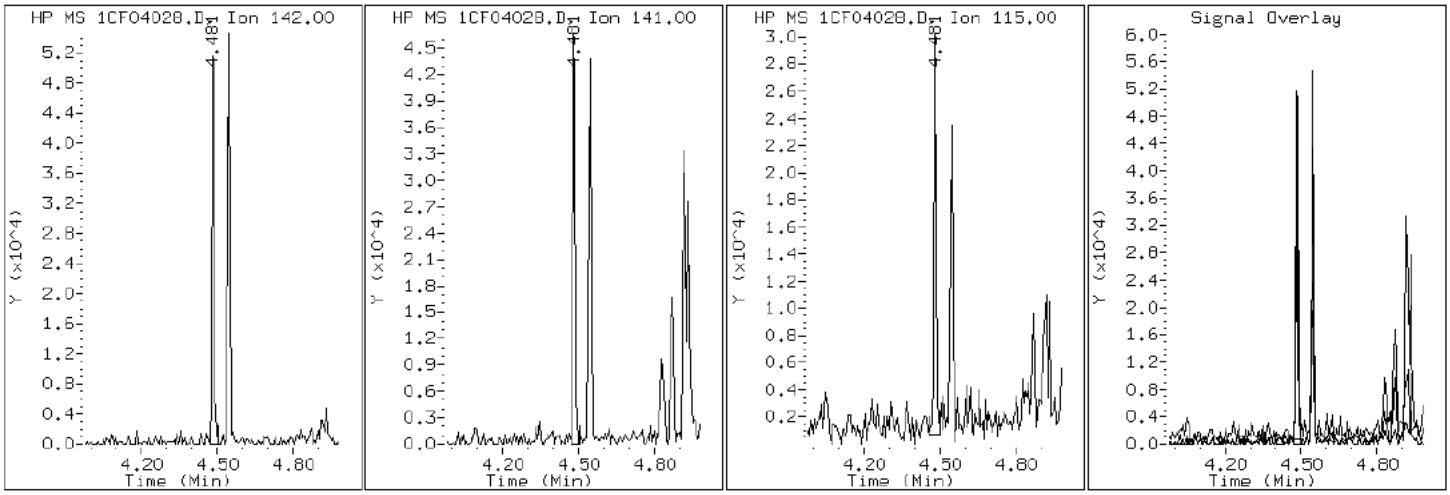
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

3 2-Methylnaphthalene



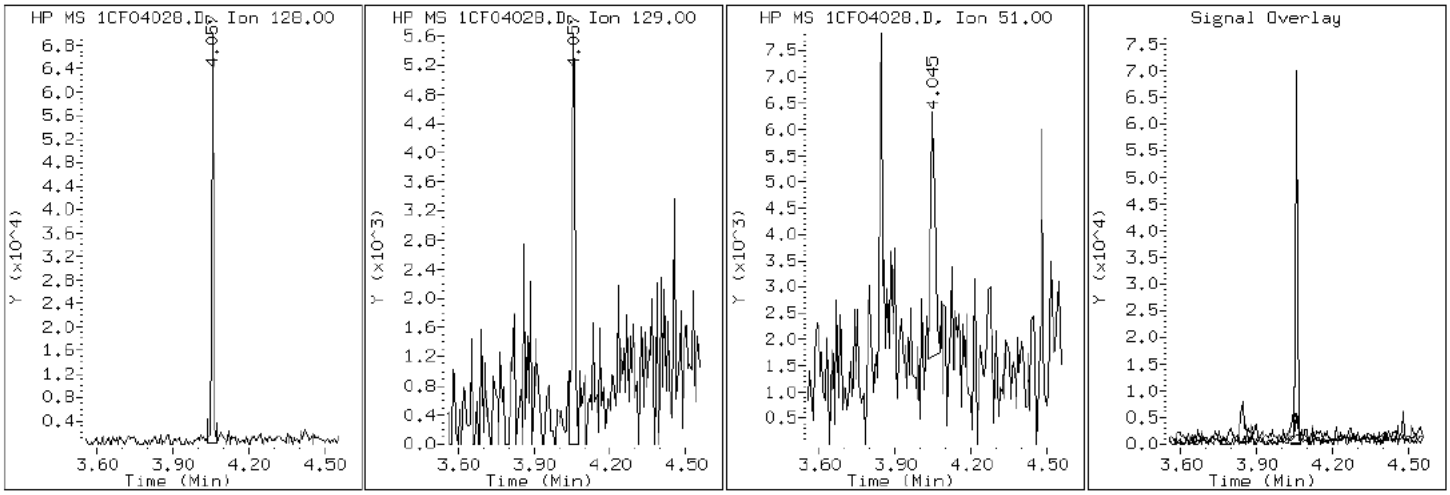
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

2 Naphthalene



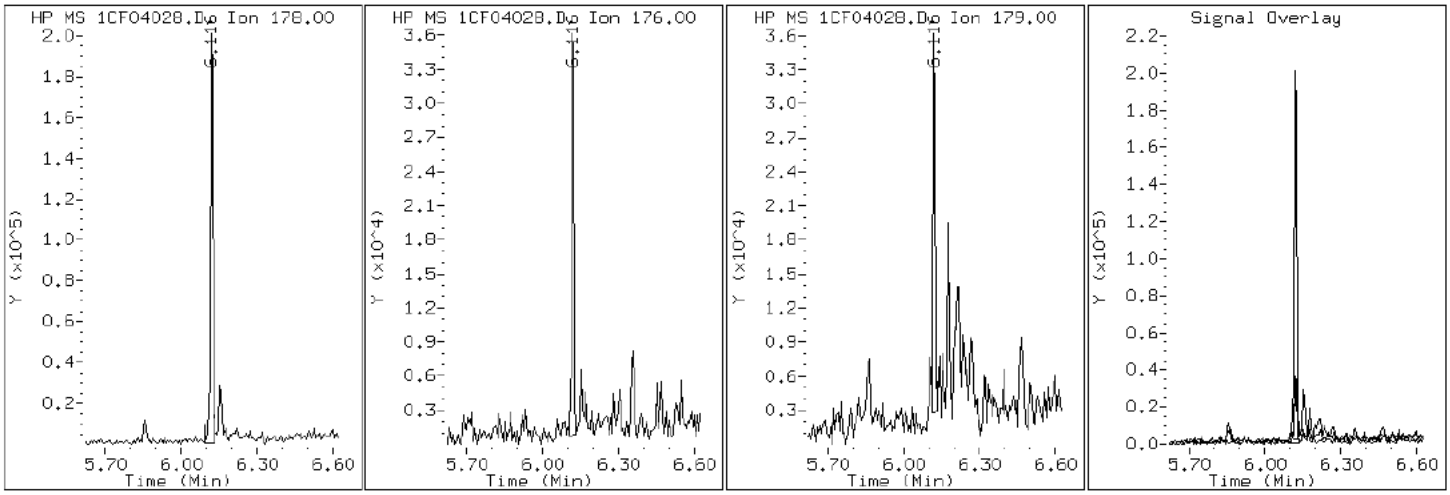
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

11 Phenanthrene



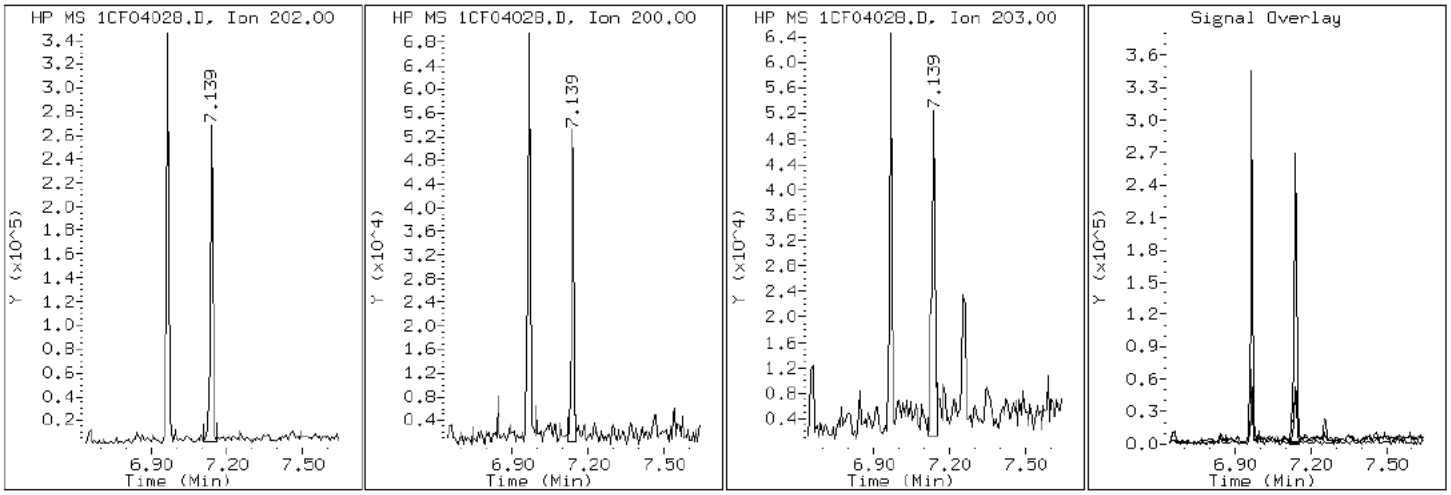
Data File: 1CF04028.D

Date: 04-JUN-2013 18:33

Client ID: CV0978H-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04028.D
Inj. Date and Time: 04-JUN-2013 18:33
Instrument ID: BSMC5973.i
Client ID: CV0978H-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/05/2013

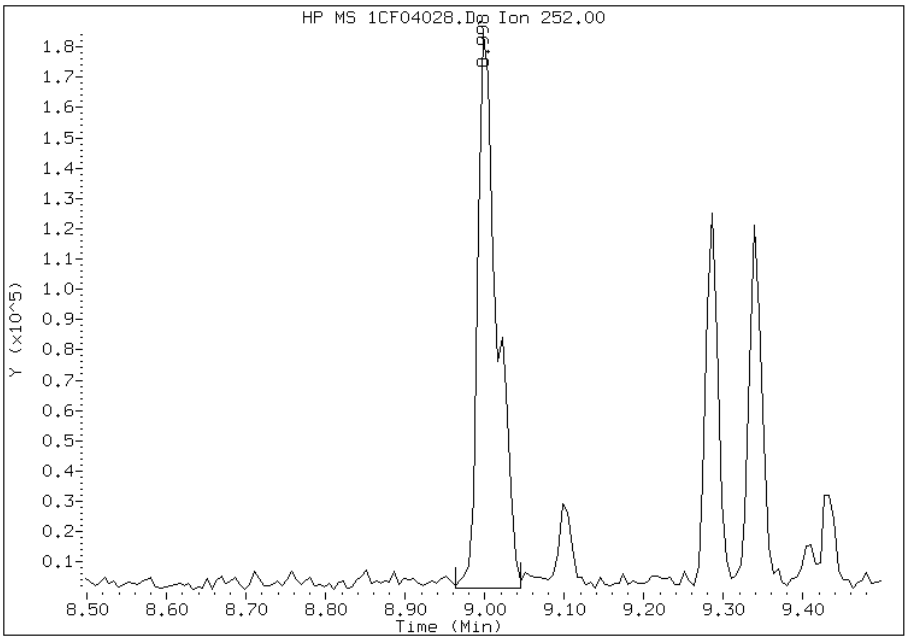
Processing Integration Results

RT: 9.00

Response: 314340

Amount: 4

Conc: 1455



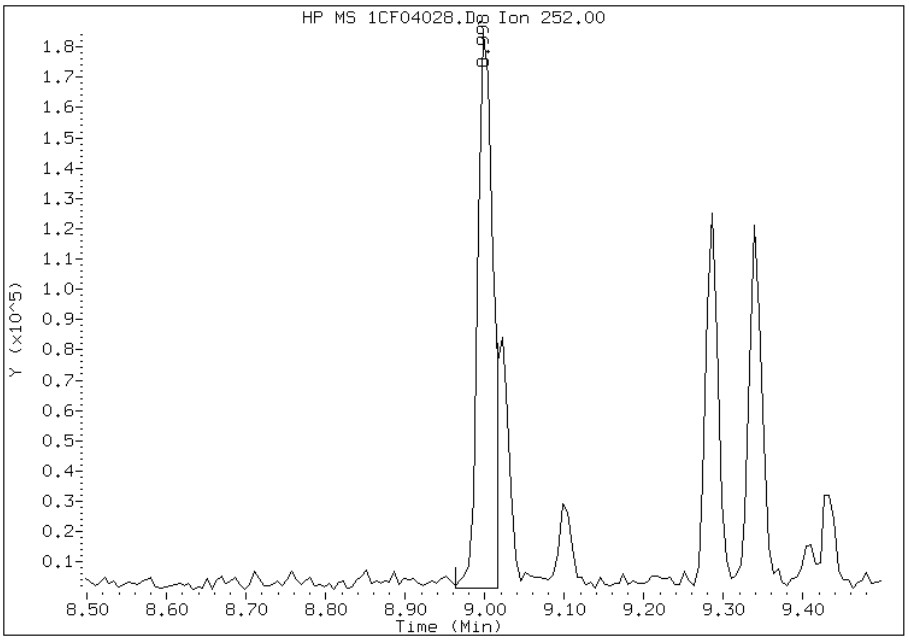
Manual Integration Results

RT: 9.00

Response: 246642

Amount: 3

Conc: 1141



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CF04028.D
Inj. Date and Time: 04-JUN-2013 18:33
Instrument ID: BSMC5973.i
Client ID: CV0978H-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/05/2013

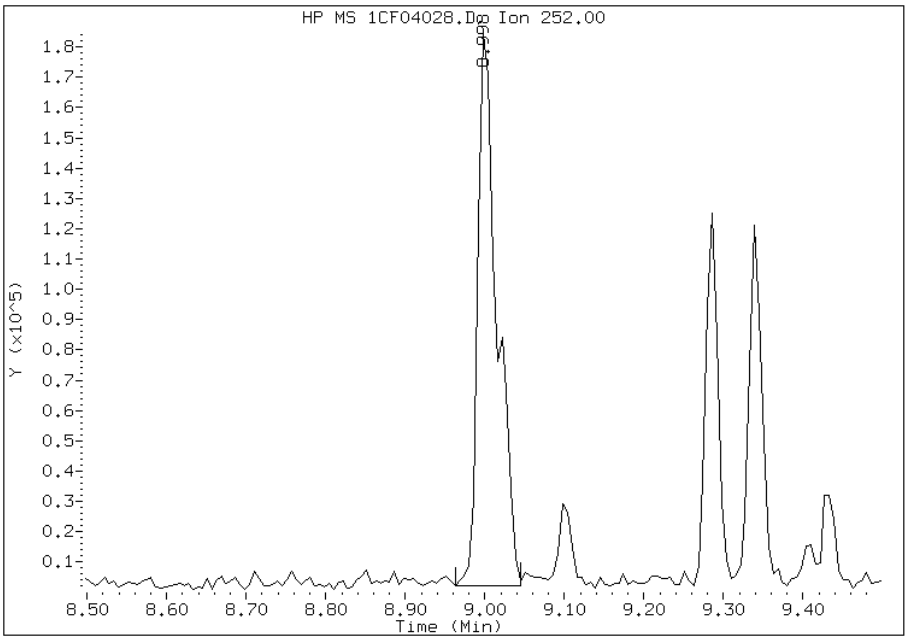
Processing Integration Results

RT: 9.00

Response: 310375

Amount: 4

Conc: 1286



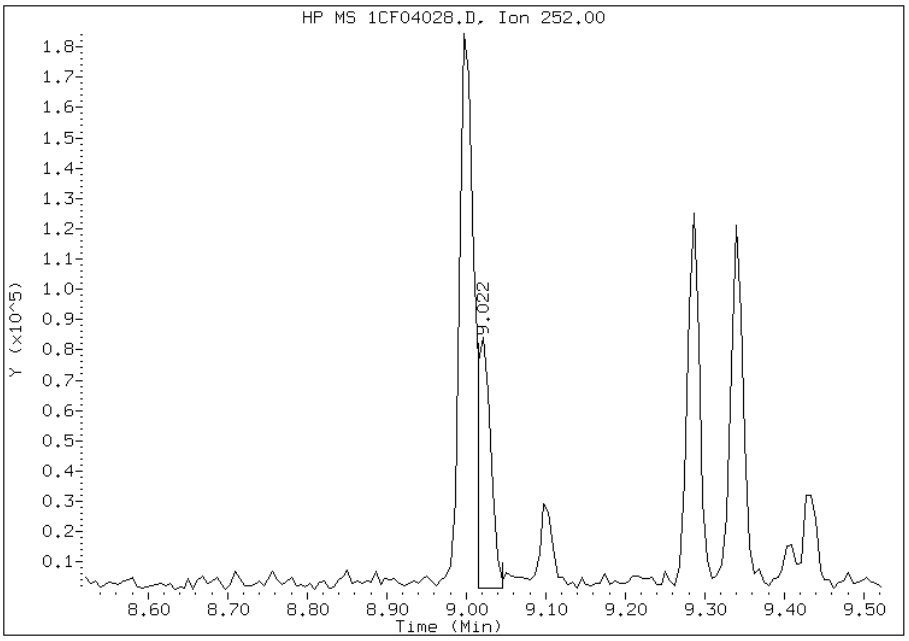
Manual Integration Results

RT: 9.02

Response: 94380

Amount: 1

Conc: 391



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04028.D
Inj. Date and Time: 04-JUN-2013 18:33
Instrument ID: BSMC5973.i
Client ID: CV0978H-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

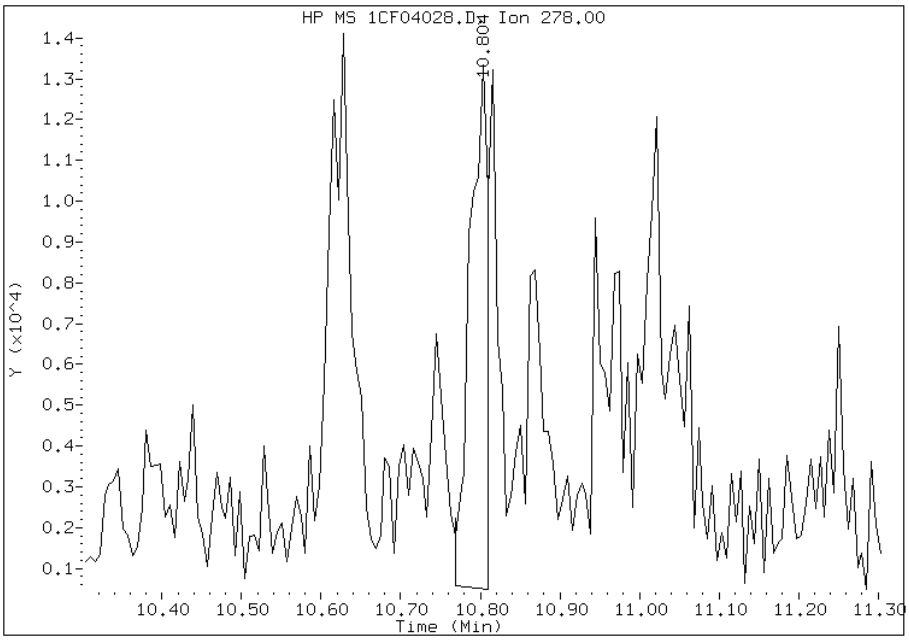
Processing Integration Results

RT: 10.80

Response: 20180

Amount: 0

Conc: 107



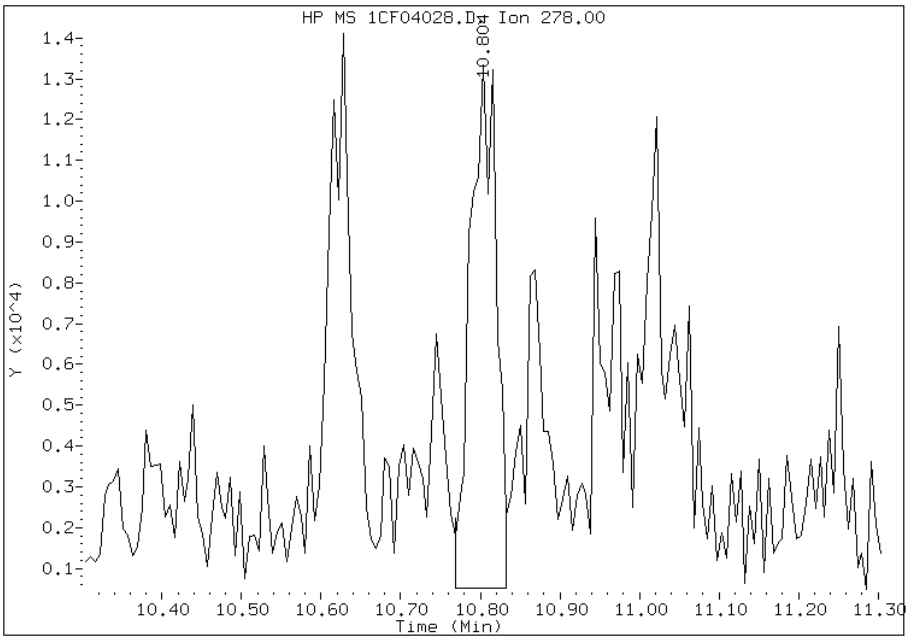
Manual Integration Results

RT: 10.80

Response: 29191

Amount: 0

Conc: 156



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04028.D
Inj. Date and Time: 04-JUN-2013 18:33
Instrument ID: BSMC5973.i
Client ID: CV0978H-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

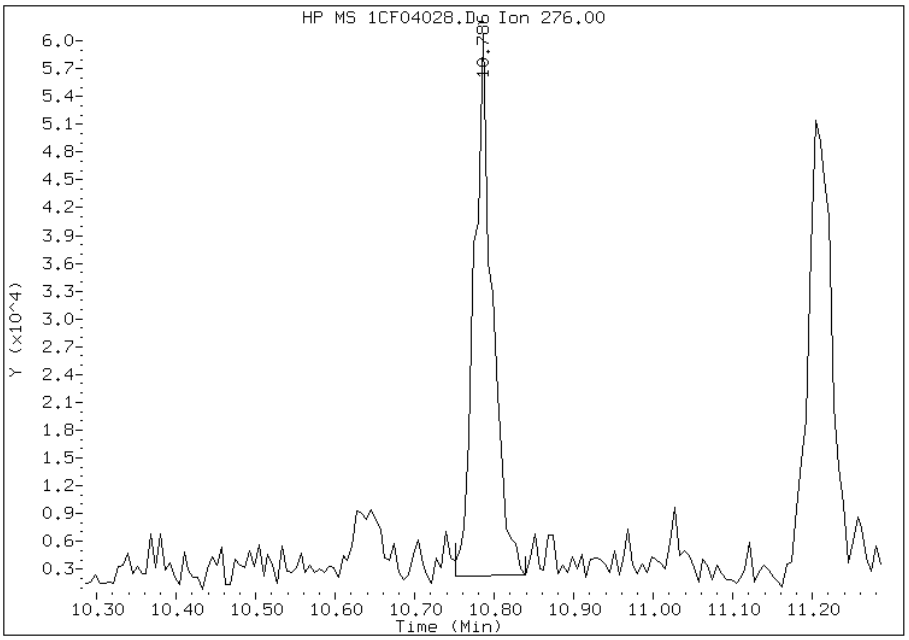
Processing Integration Results

RT: 10.79

Response: 93746

Amount: 1

Conc: 454



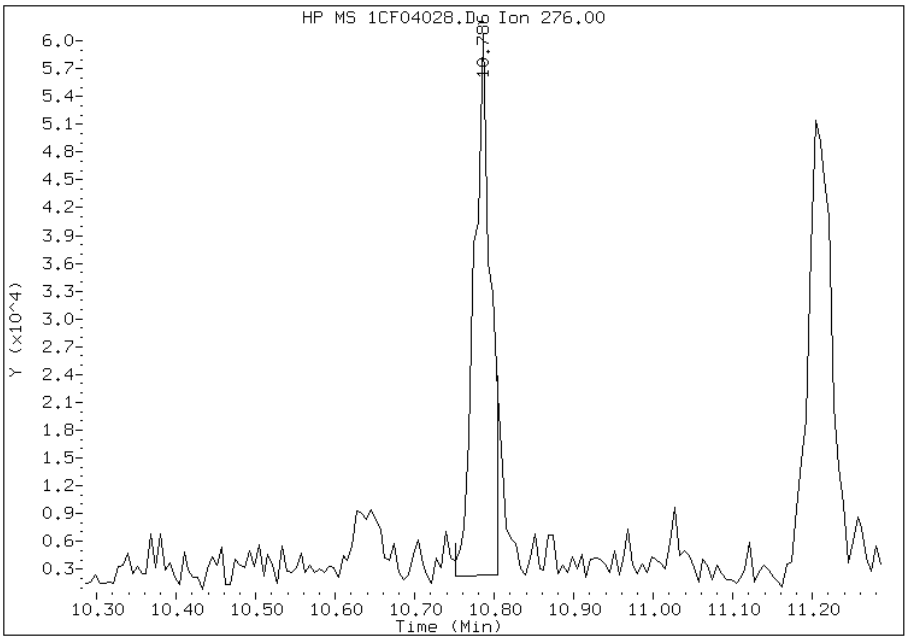
Manual Integration Results

RT: 10.79

Response: 85038

Amount: 1

Conc: 417



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1008A-CS | Lab Sample ID: 680-90723-19

Matrix: Solid | Lab File ID: 1CF04029.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 14:43

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.93(g) | Date Analyzed: 06/04/2013 18:51

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

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

% Moisture: 27.3 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	57	J	220	28
120-12-7	Anthracene	84		46	23
56-55-3	Benzo[a]anthracene	710		44	22
50-32-8	Benzo[a]pyrene	990		57	29
205-99-2	Benzo[b]fluoranthene	930		67	34
191-24-2	Benzo[g,h,i]perylene	950		110	24
207-08-9	Benzo[k]fluoranthene	250		44	20
218-01-9	Chrysene	1200		50	25
53-70-3	Dibenz(a,h)anthracene	180		110	23
206-44-0	Fluoranthene	610		110	22
86-73-7	Fluorene	39	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	380		110	39
90-12-0	1-Methylnaphthalene	220		220	24
91-57-6	2-Methylnaphthalene	240		220	39
91-20-3	Naphthalene	150	J	220	24
85-01-8	Phenanthrene	520		44	22
129-00-0	Pyrene	890		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04029.D
Lab Smp Id: 680-90723-A-19-A Client Smp ID: CV1008A-CS
Inj Date : 04-JUN-2013 18:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-19-A
Misc Info : 680-90723-A-19-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 29
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	27.254	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2656851	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1841686	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3182102	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	94991	1.91634	705.7706
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3180651	40.0000	
* 23 Perylene-d12	264	9.404	9.409	(1.000)	3086150	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	31384	0.41859	154.1620
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	27283	0.65605	241.6166
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	23991	0.58635	215.9463
5 Acenaphthylene	152	5.045	5.045	(0.983)	11005	0.15587	57.4067
9 Fluorene	166	5.474	5.480	(1.066)	5954	0.10539	38.8159(Q)
11 Phenanthrene	178	6.116	6.121	(1.002)	132135	1.40550	517.6341
12 Anthracene	178	6.151	6.157	(1.008)	19981	0.22941	84.4901
13 Carbazole	167	6.257	6.257	(1.025)	21033	0.37340	137.5187

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	160161	1.66671	613.8367
16 Pyrene	202	7.139	7.145	(0.885)	207896	2.42056	891.4724
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	169924	1.93745	713.5475
19 Chrysene	228	8.086	8.092	(1.002)	280245	3.17368	1168.8382
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	191747	2.52880	931.3372
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	57707	0.68140	250.9545
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	200668	2.68851	990.1559
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.148)	71877	1.02924	379.0608(M)
25 Dibenzo(a,h)anthracene	278	10.803	10.815	(1.149)	32023	0.48615	179.0441
26 Benzo(g,h,i)perylene	276	11.209	11.215	(1.192)	184271	2.57017	946.5713

QC Flag Legend

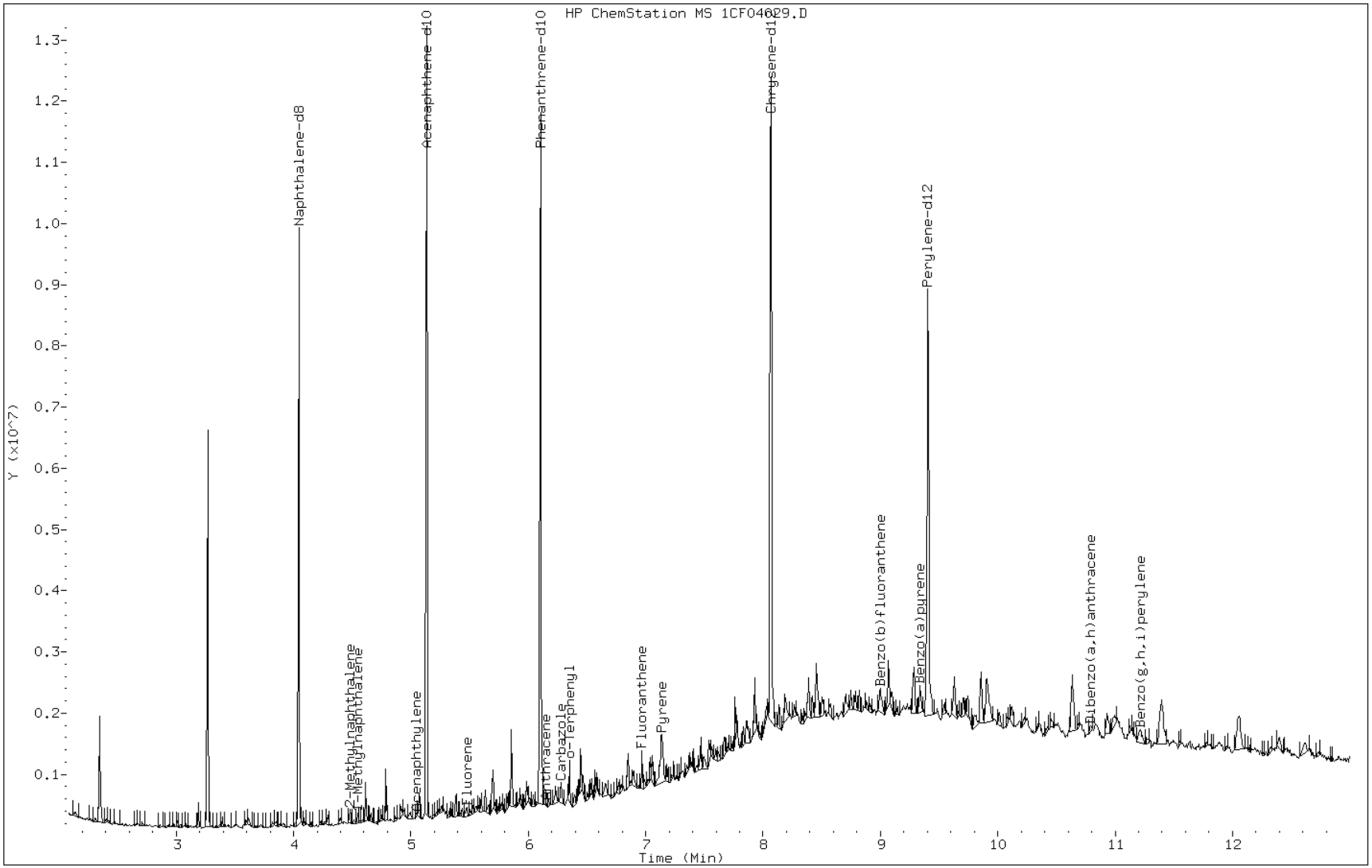
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC



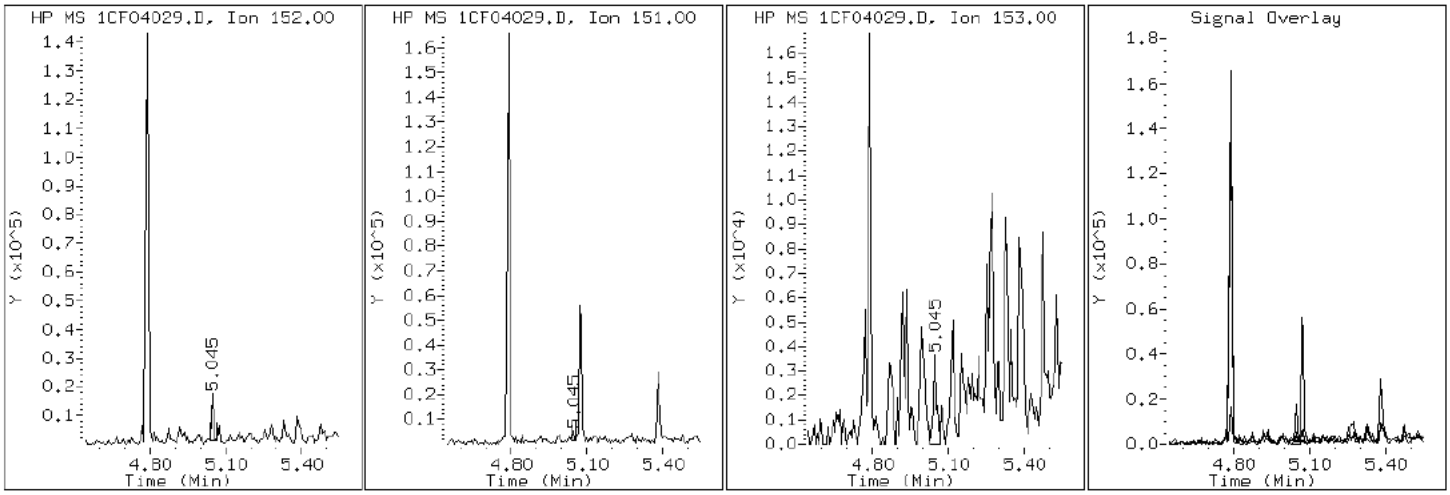
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

5 Acenaphthylene



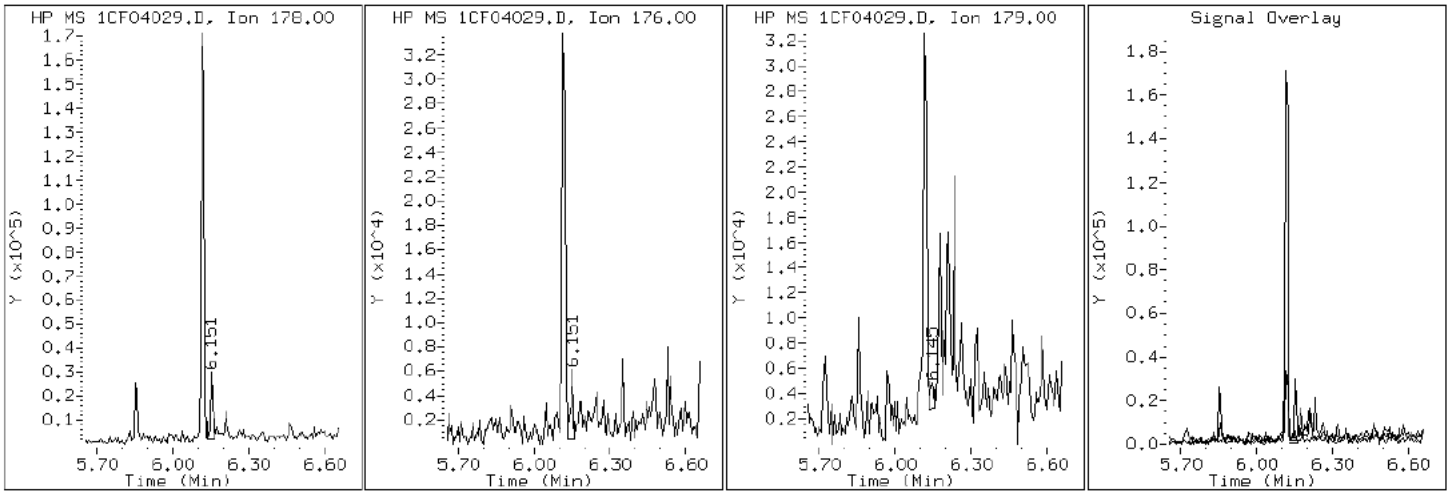
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

12 Anthracene



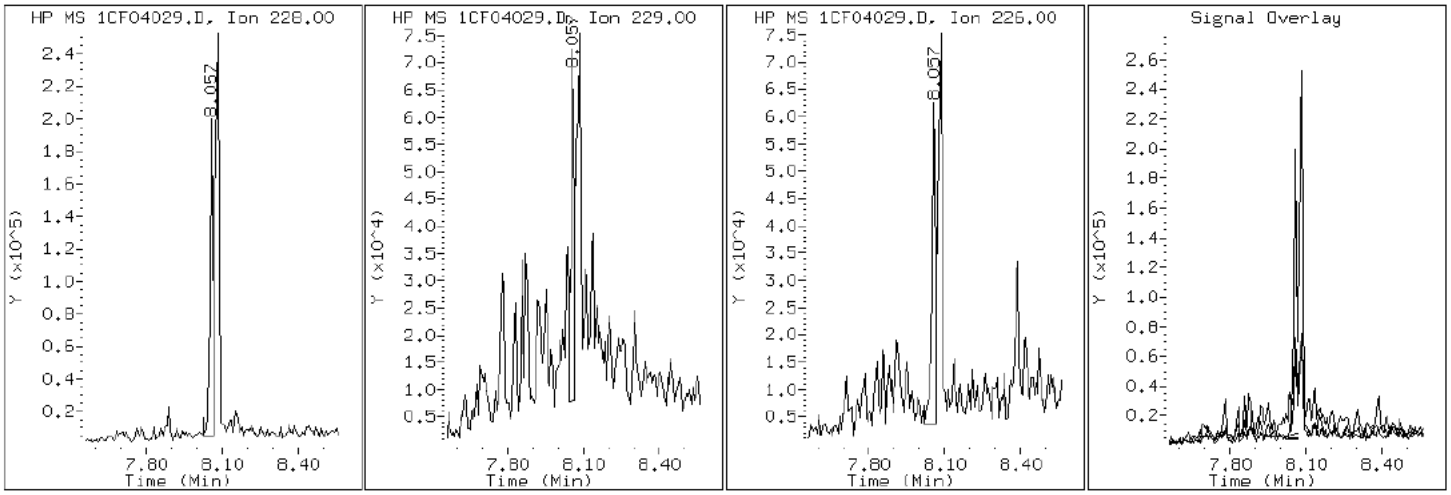
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

17 Benzo(a)anthracene



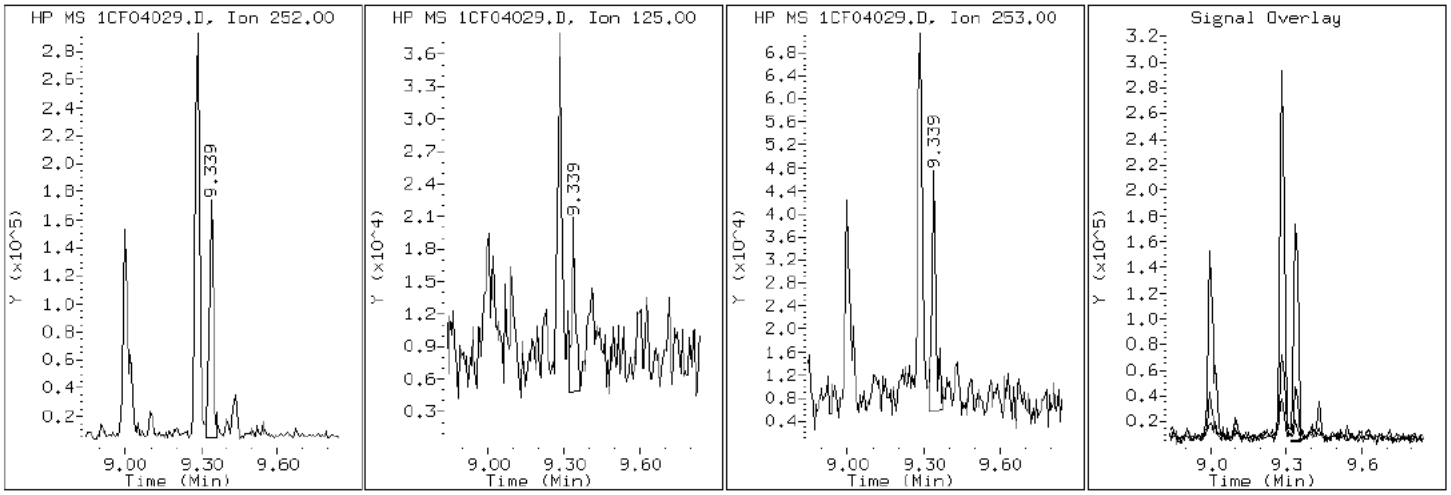
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

22 Benzo(a)pyrene



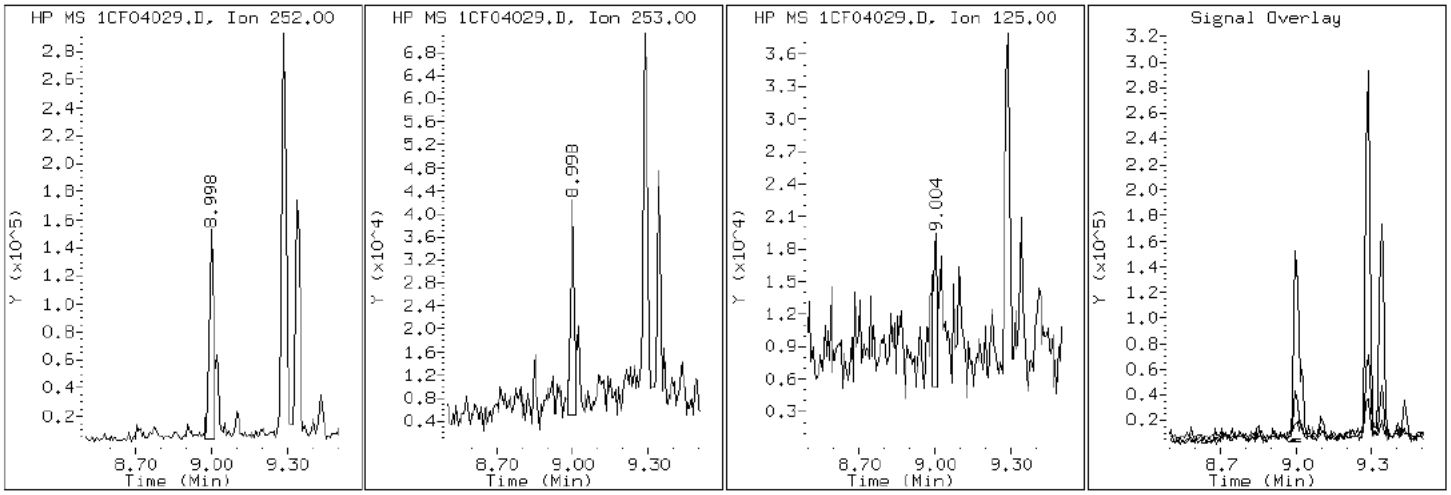
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

20 Benzo(b)fluoranthene



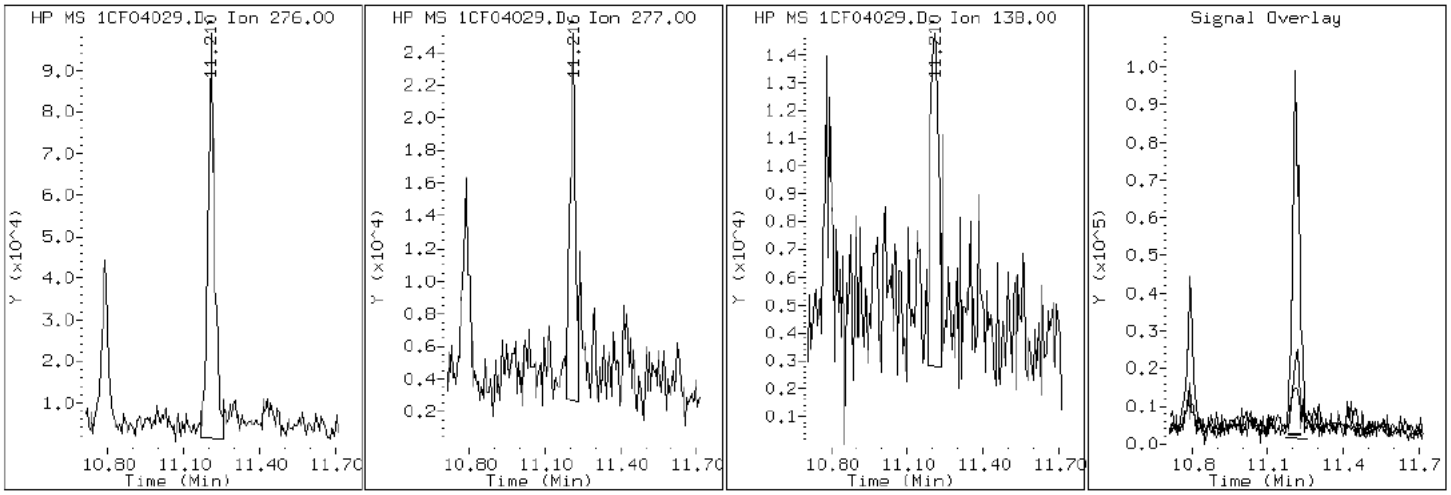
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

26 Benzo(g,h,i)perylene



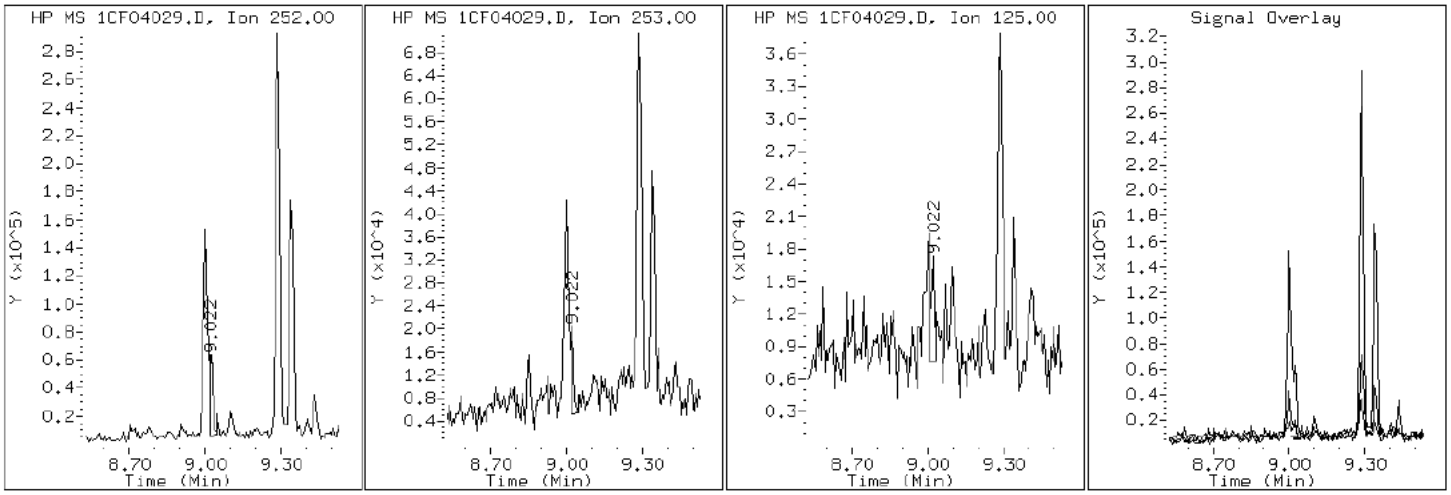
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

21 Benzo(k)fluoranthene



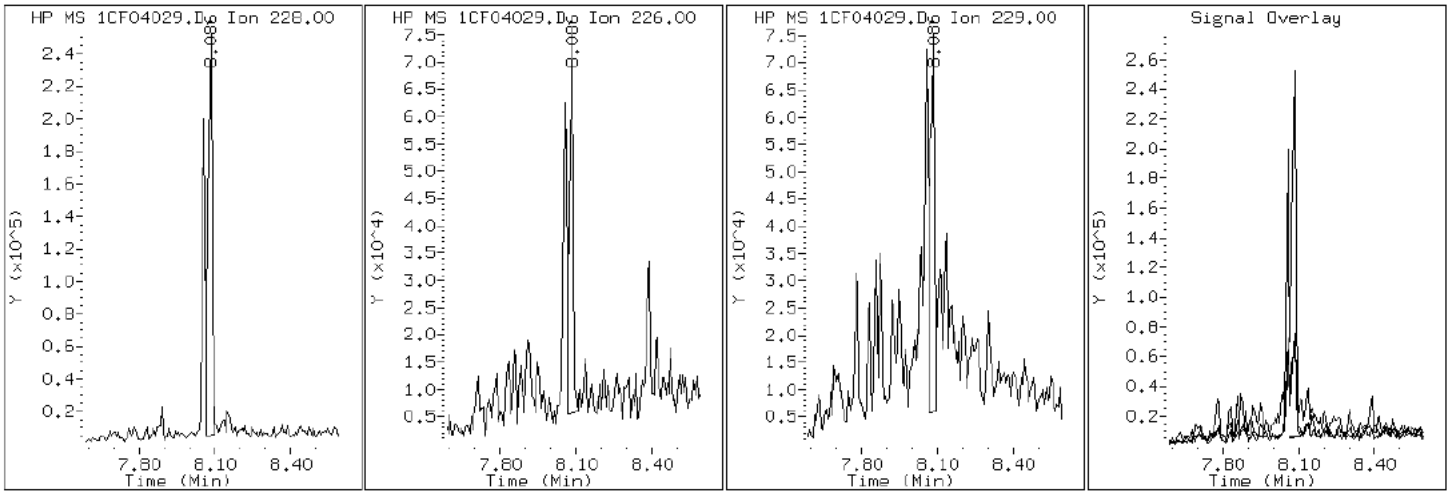
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

19 Chrysene



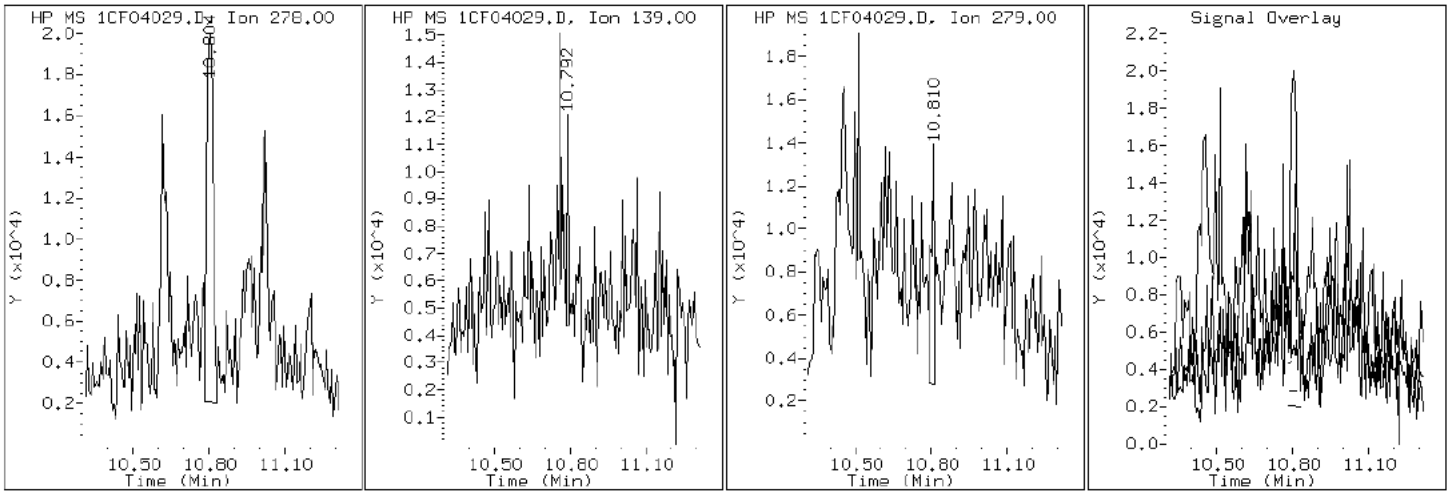
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

25 Dibenzo(a,h)anthracene



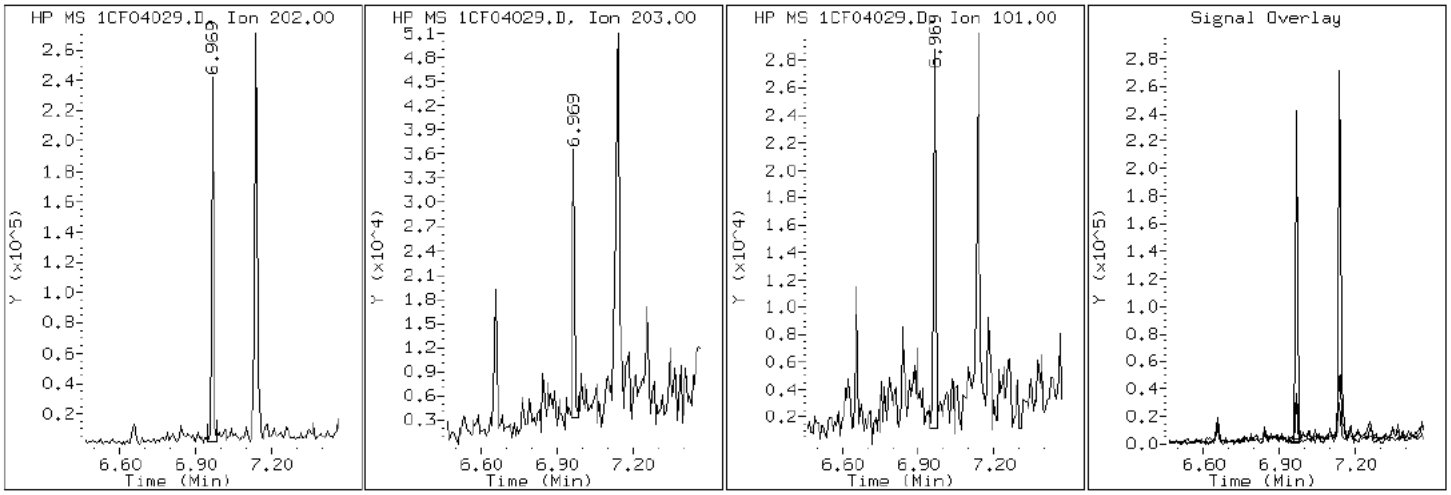
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

15 Fluoranthene



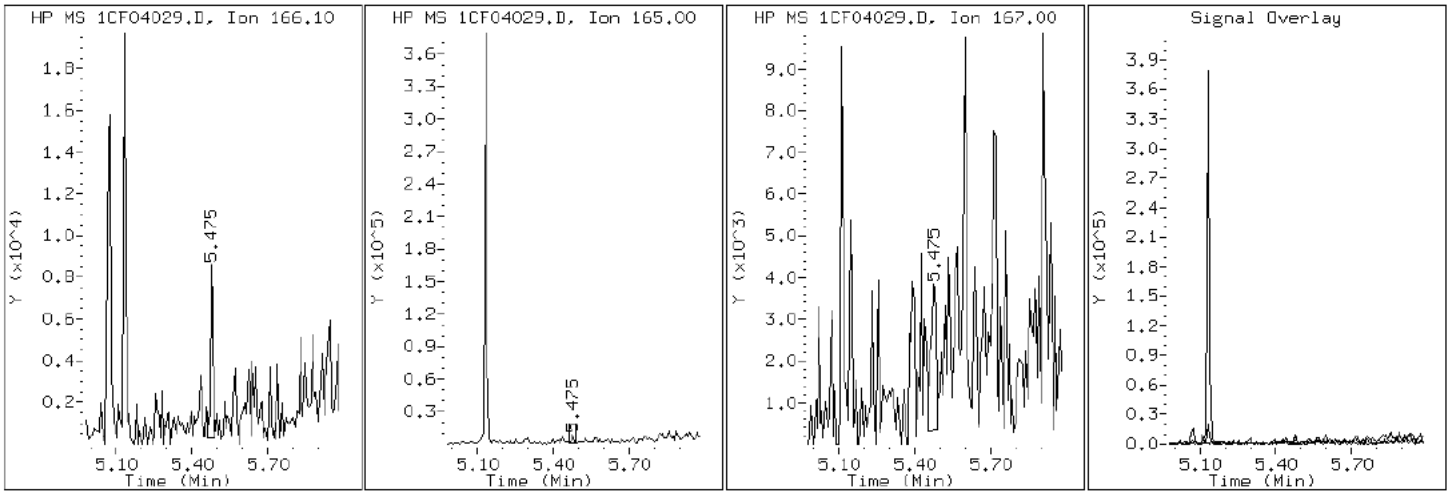
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

9 Fluorene



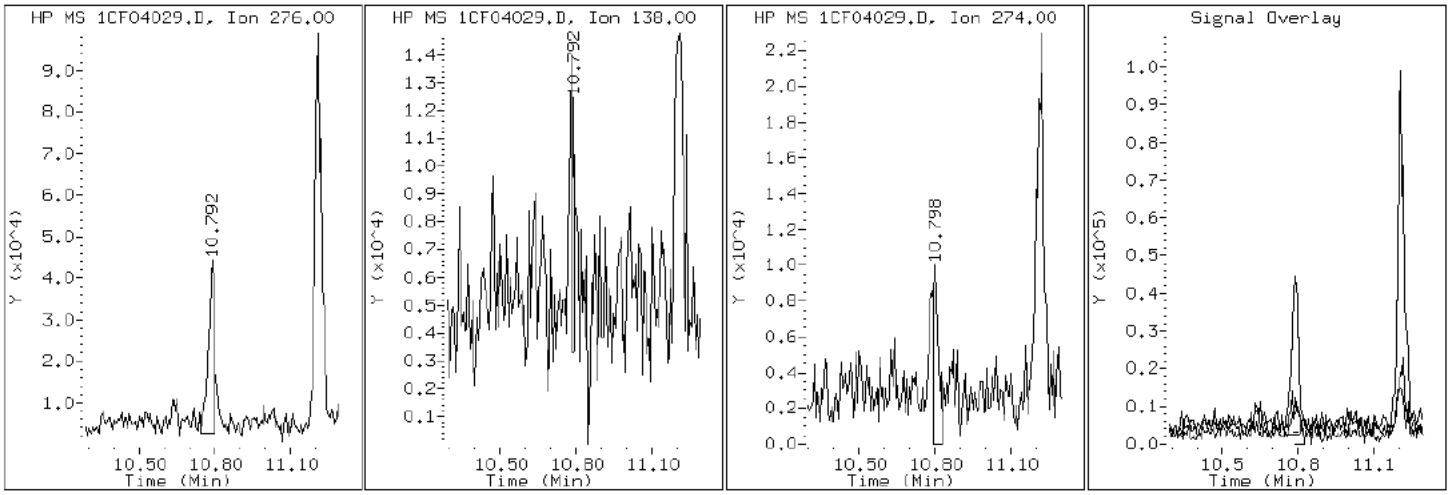
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

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



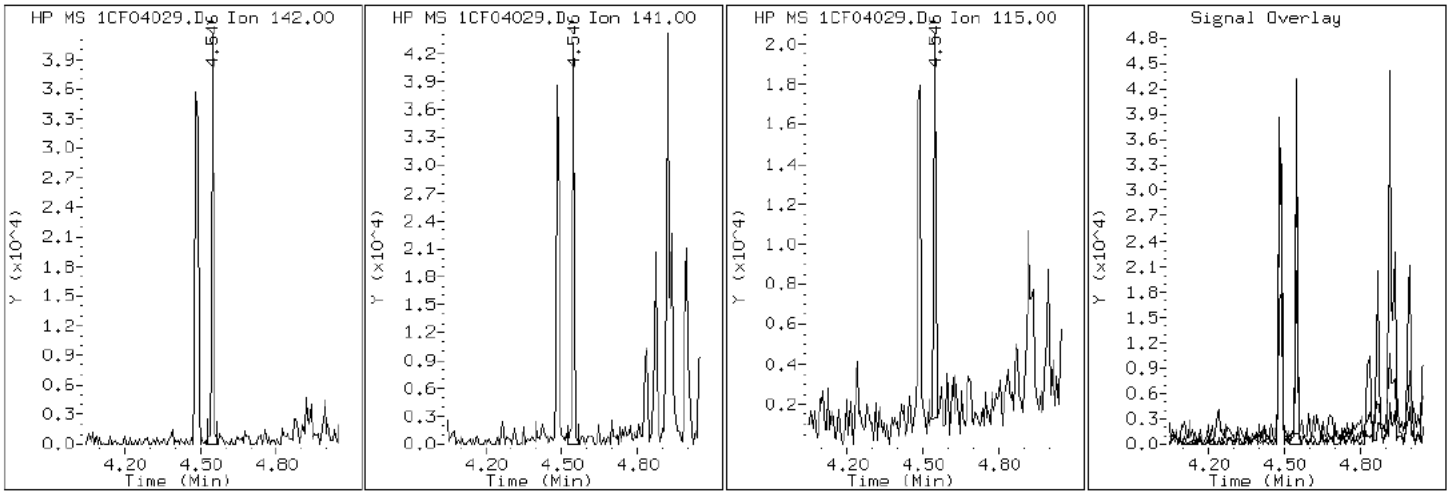
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

4 1-Methylnaphthalene



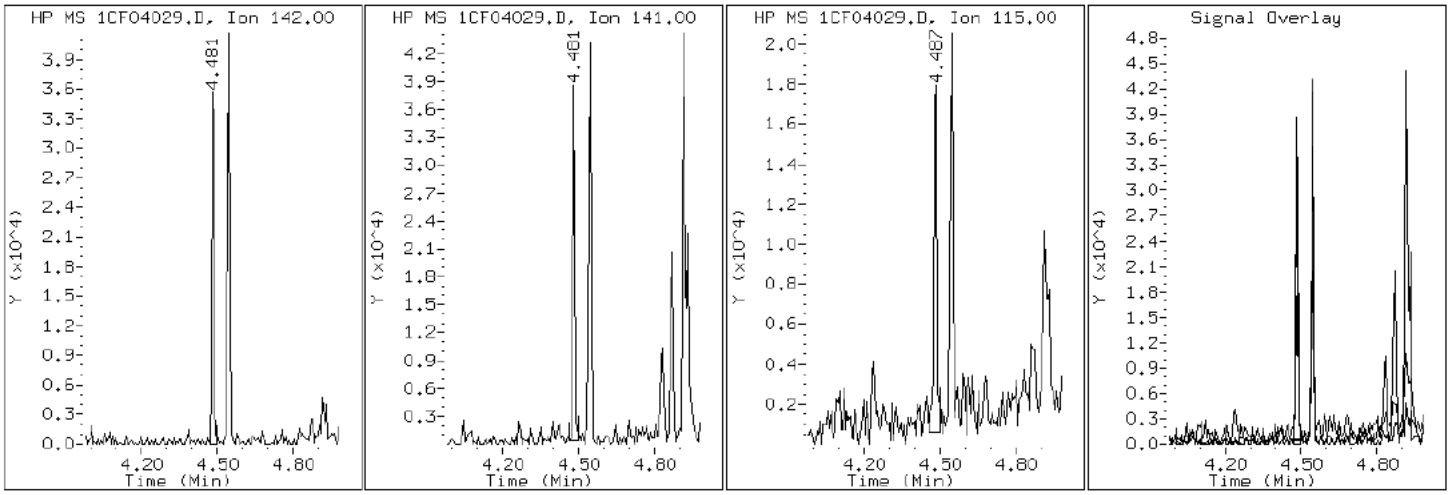
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

3 2-Methylnaphthalene



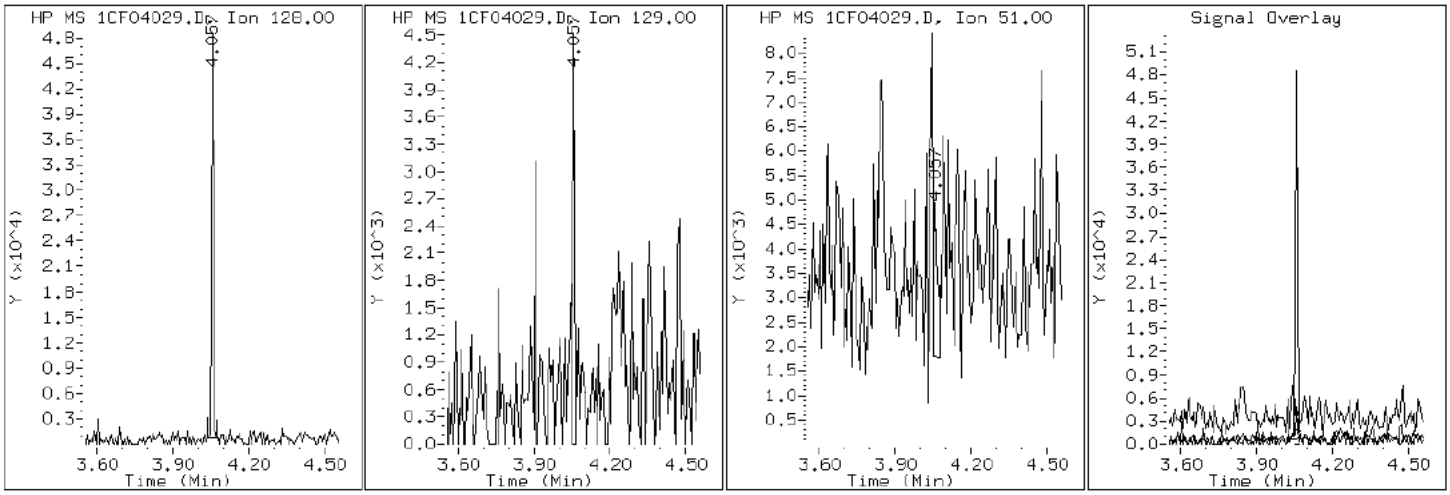
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

2 Naphthalene



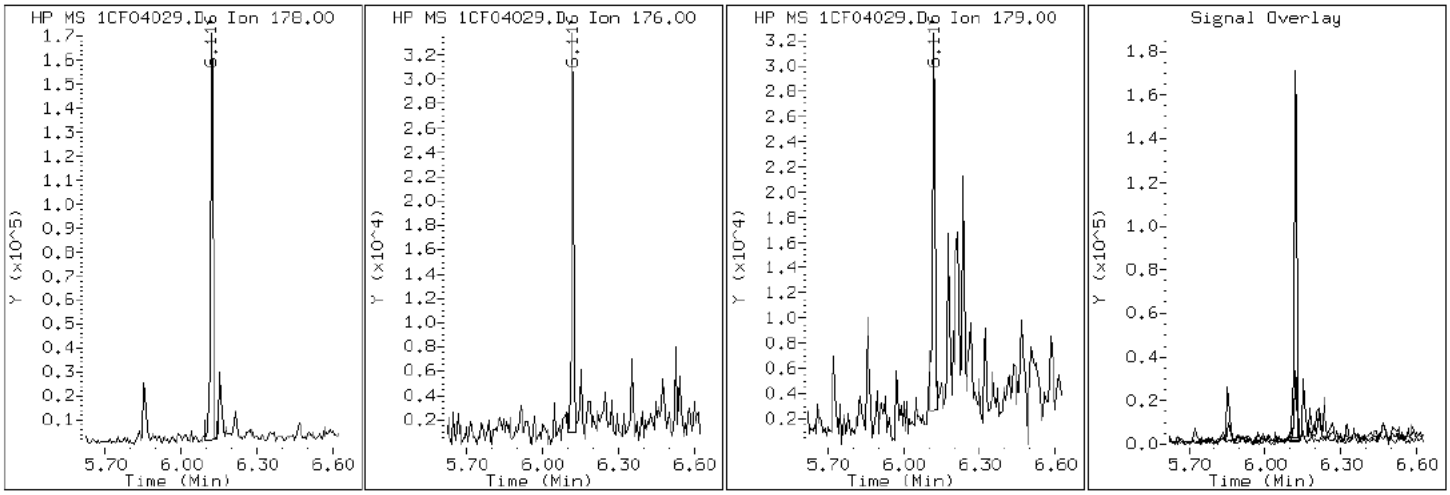
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

11 Phenanthrene



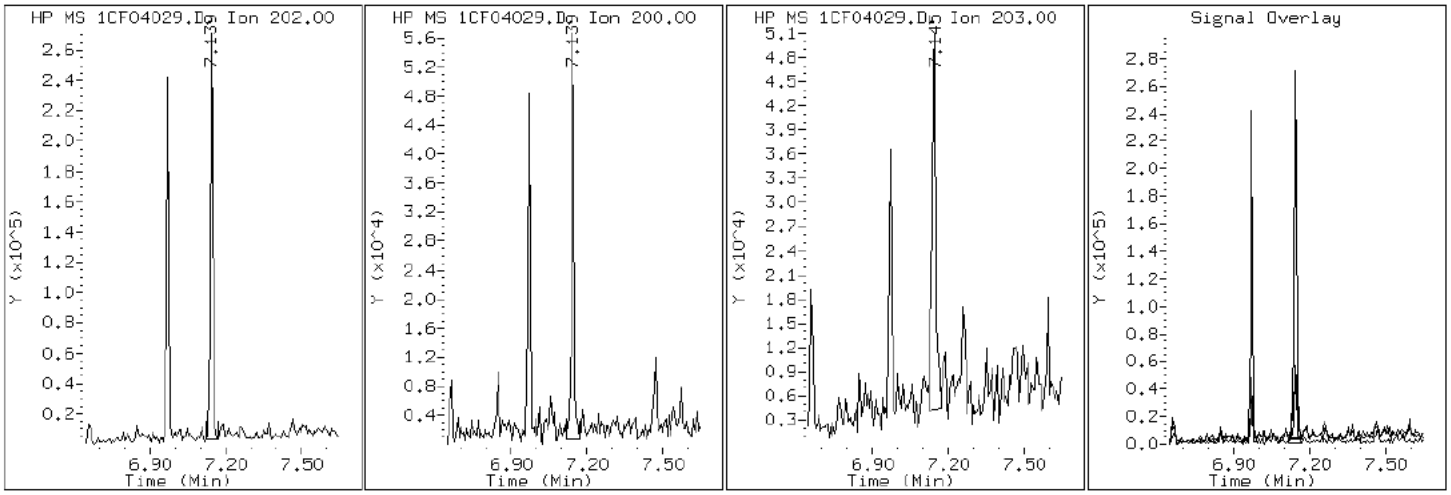
Data File: 1CF04029.D

Date: 04-JUN-2013 18:51

Client ID: CV1008A-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-19-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04029.D
Inj. Date and Time: 04-JUN-2013 18:51
Instrument ID: BSMC5973.i
Client ID: CV1008A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

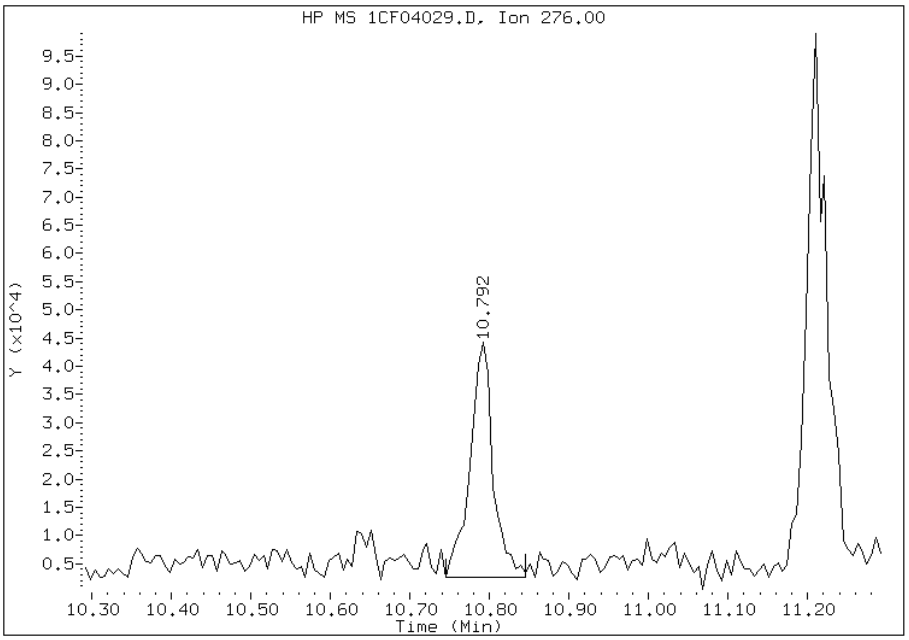
Processing Integration Results

RT: 10.79

Response: 83129

Amount: 1

Conc: 429



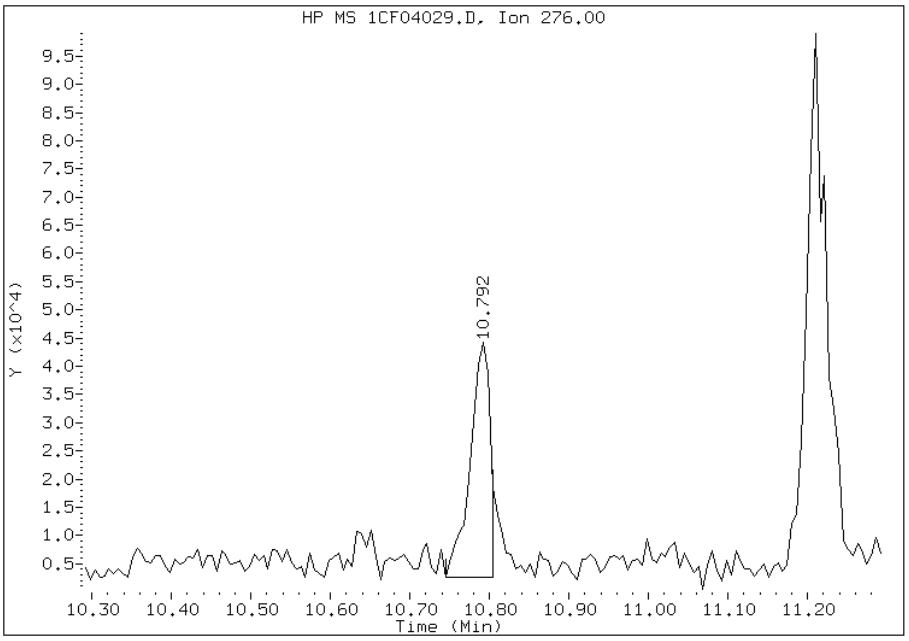
Manual Integration Results

RT: 10.79

Response: 71877

Amount: 1

Conc: 379



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1008B-CS | Lab Sample ID: 680-90723-20

Matrix: Solid | Lab File ID: 1CF04030.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 15:00

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 14.93(g) | Date Analyzed: 06/04/2013 19:09

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	54	J	210	27
120-12-7	Anthracene	59		45	23
56-55-3	Benzo[a]anthracene	400		43	21
50-32-8	Benzo[a]pyrene	410		56	28
205-99-2	Benzo[b]fluoranthene	640		65	33
191-24-2	Benzo[g,h,i]perylene	330		110	24
207-08-9	Benzo[k]fluoranthene	180		43	19
218-01-9	Chrysene	660		48	24
53-70-3	Dibenz(a,h)anthracene	110		110	22
206-44-0	Fluoranthene	400		110	21
86-73-7	Fluorene	48	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	290		110	38
90-12-0	1-Methylnaphthalene	230		210	24
91-57-6	2-Methylnaphthalene	340		210	38
91-20-3	Naphthalene	180	J	210	24
85-01-8	Phenanthrene	460		43	21
129-00-0	Pyrene	440		110	20

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\1C060413.b\1CF04030.D
Lab Smp Id: 680-90723-A-20-A Client Smp ID: CV1008B-CS
Inj Date : 04-JUN-2013 19:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-20-A
Misc Info : 680-90723-A-20-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 30
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	25.113	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2539161	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1671166	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	2956908	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	86718	1.88267	673.5494
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3095636	40.0000	
* 23 Perylene-d12	264	9.403	9.409	(1.000)	3047008	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	36178	0.50489	180.6315
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	37663	0.94762	339.0232
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	25606	0.65482	234.2712
5 Acenaphthylene	152	5.045	5.045	(0.983)	9675	0.15102	54.0284
9 Fluorene	166	5.480	5.480	(1.068)	6922	0.13503	48.3094(Q)
11 Phenanthrene	178	6.115	6.121	(1.002)	111793	1.27969	457.8241
12 Anthracene	178	6.151	6.157	(1.008)	13297	0.16430	58.7789
13 Carbazole	167	6.257	6.257	(1.025)	17128	0.34143	122.1499

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.968	6.968	(1.142)	100820	1.12909	403.9446
16 Pyrene	202	7.139	7.145	(0.885)	102156	1.22208	437.2145
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	95637	1.12039	400.8326
19 Chrysene	228	8.086	8.092	(1.002)	157544	1.83313	655.8240
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	134068	1.79083	640.6926
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	42158	0.50419	180.3818
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	78998	1.13258	405.1961
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.148)	52461	0.80218	286.9886(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	20665	0.31775	113.6788(M)
26 Benzo(g,h,i)perylene	276	11.209	11.215	(1.192)	65436	0.92441	330.7191

QC Flag Legend

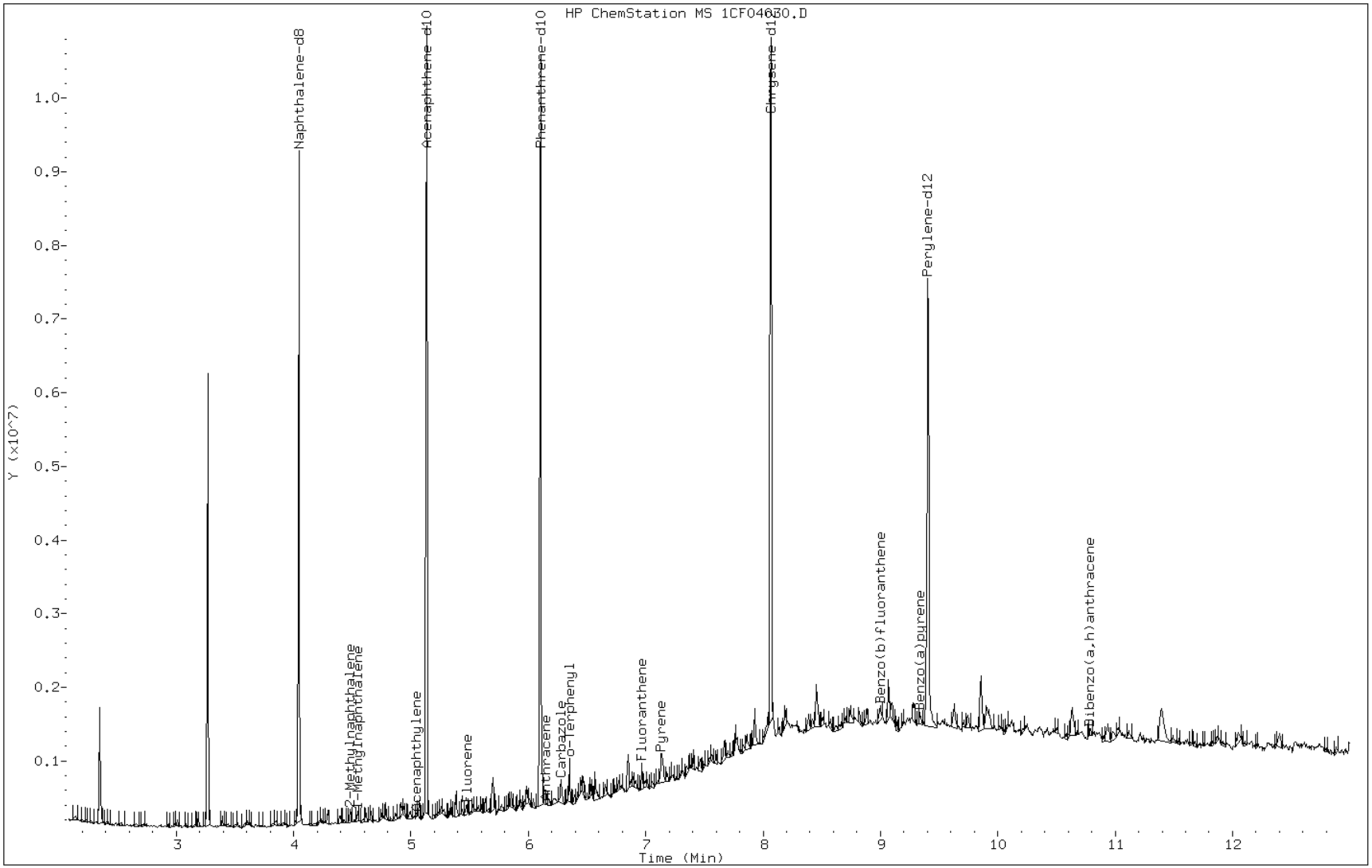
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC



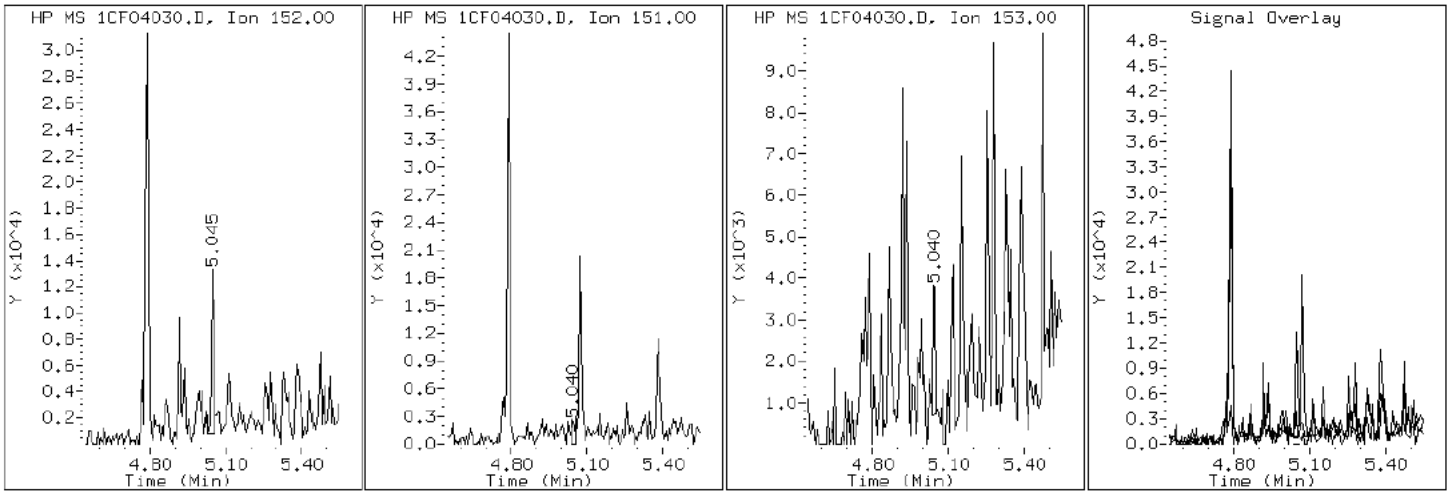
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

5 Acenaphthylene



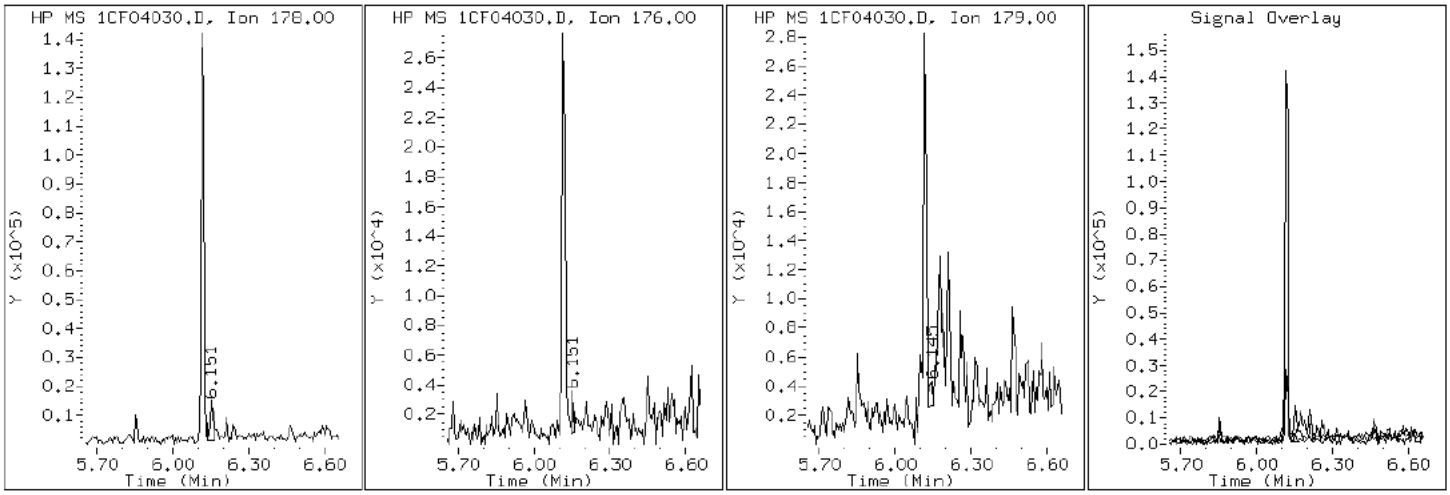
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

12 Anthracene



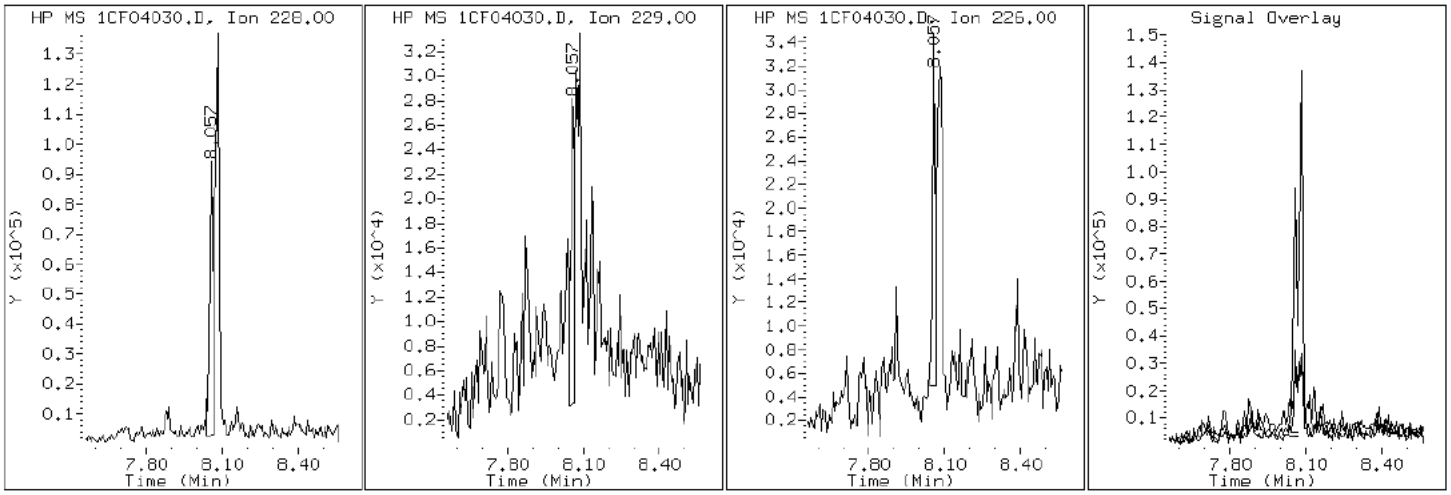
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

17 Benzo(a)anthracene



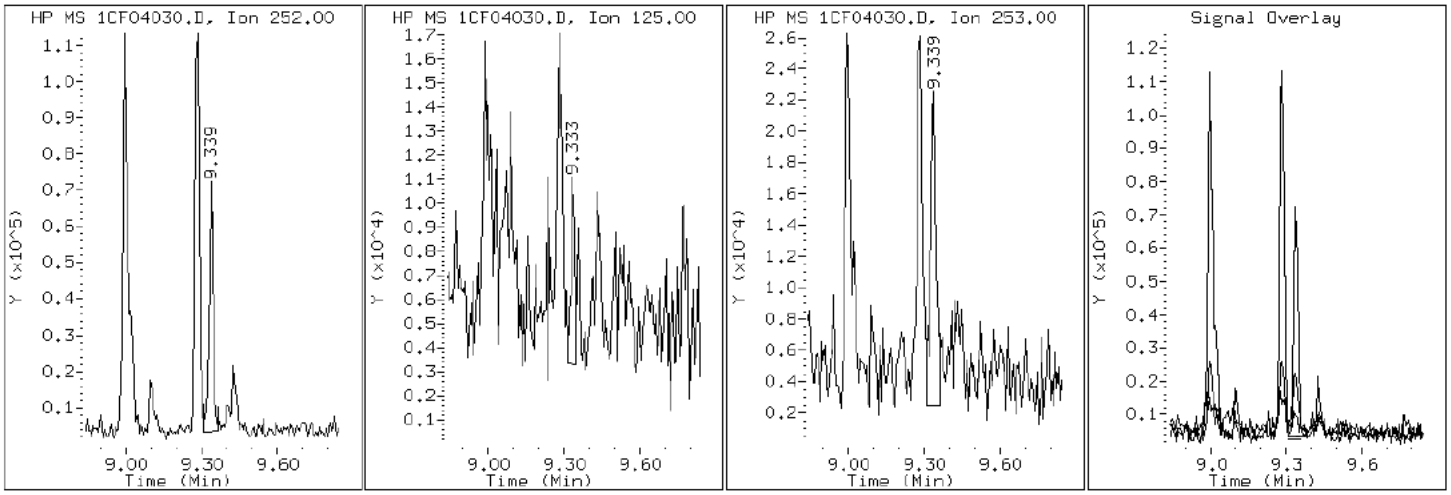
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

22 Benzo(a)pyrene



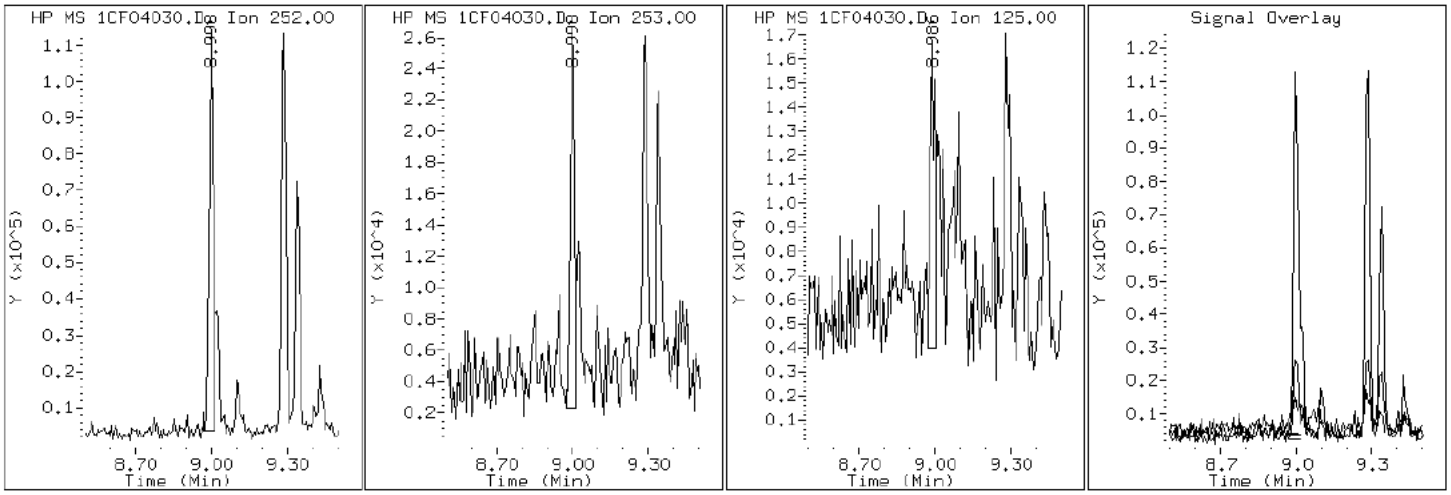
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

20 Benzo(b)fluoranthene



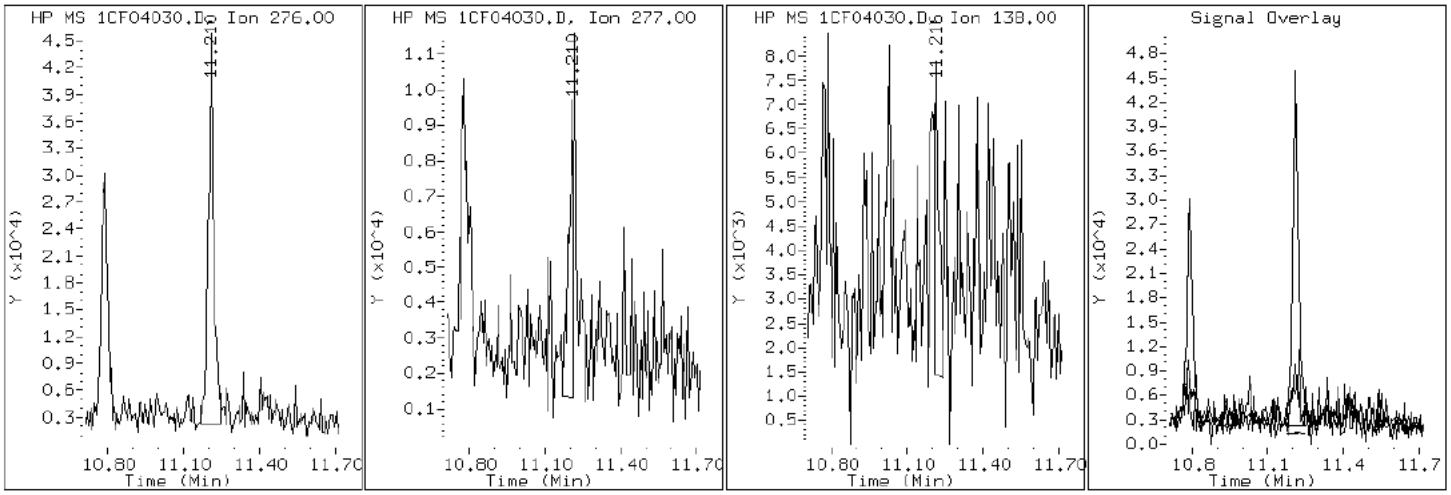
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

26 Benzo(g,h,i)perylene



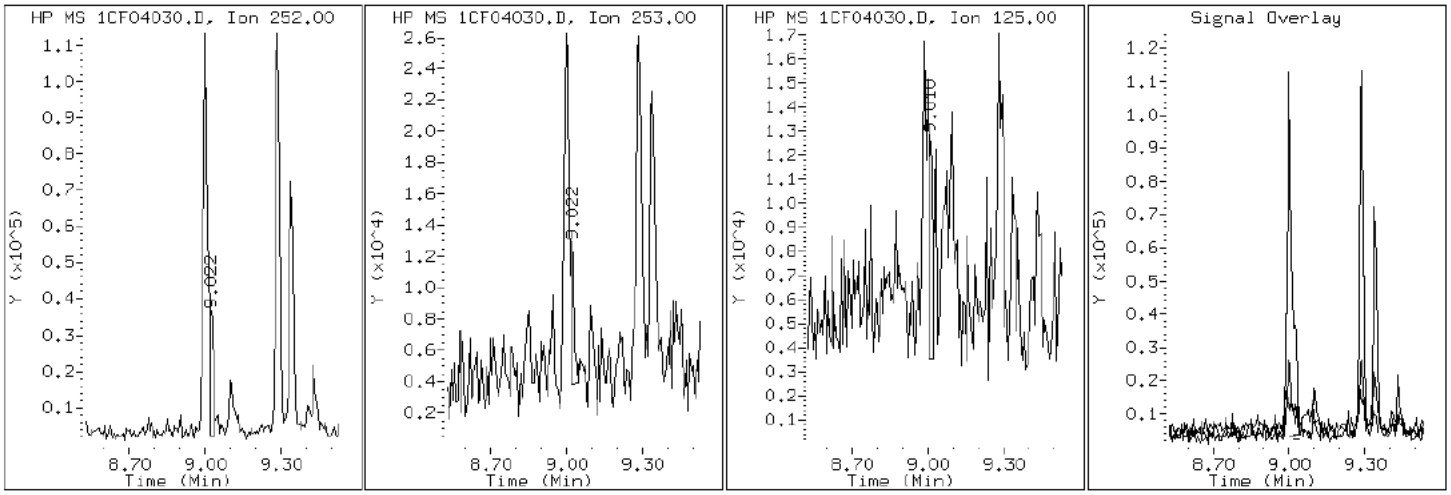
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

21 Benzo(k)fluoranthene



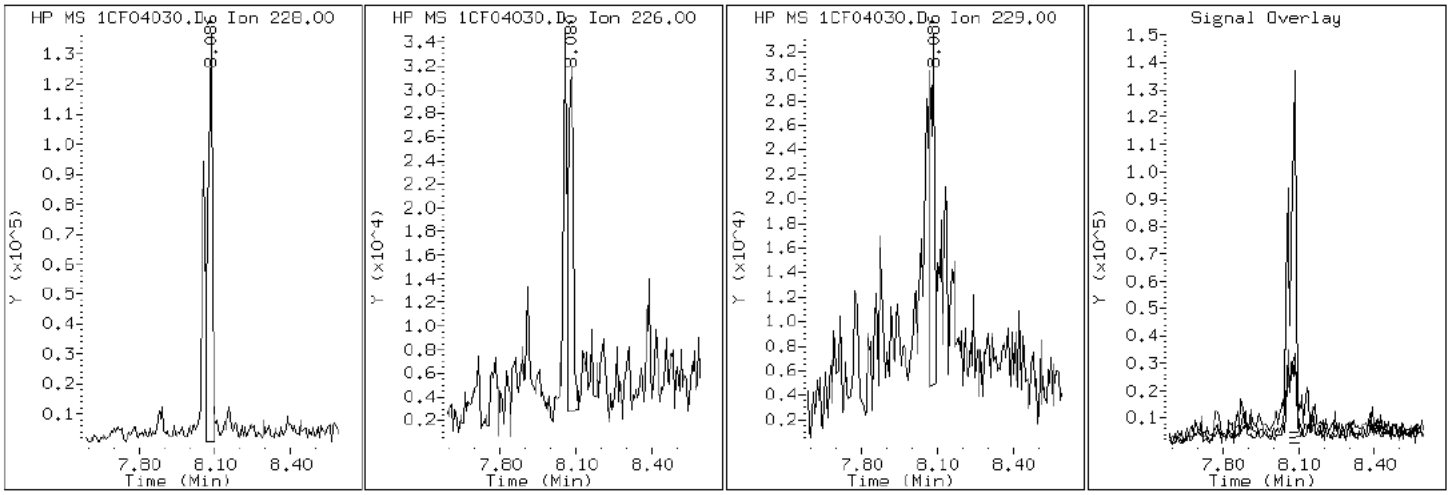
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

19 Chrysene



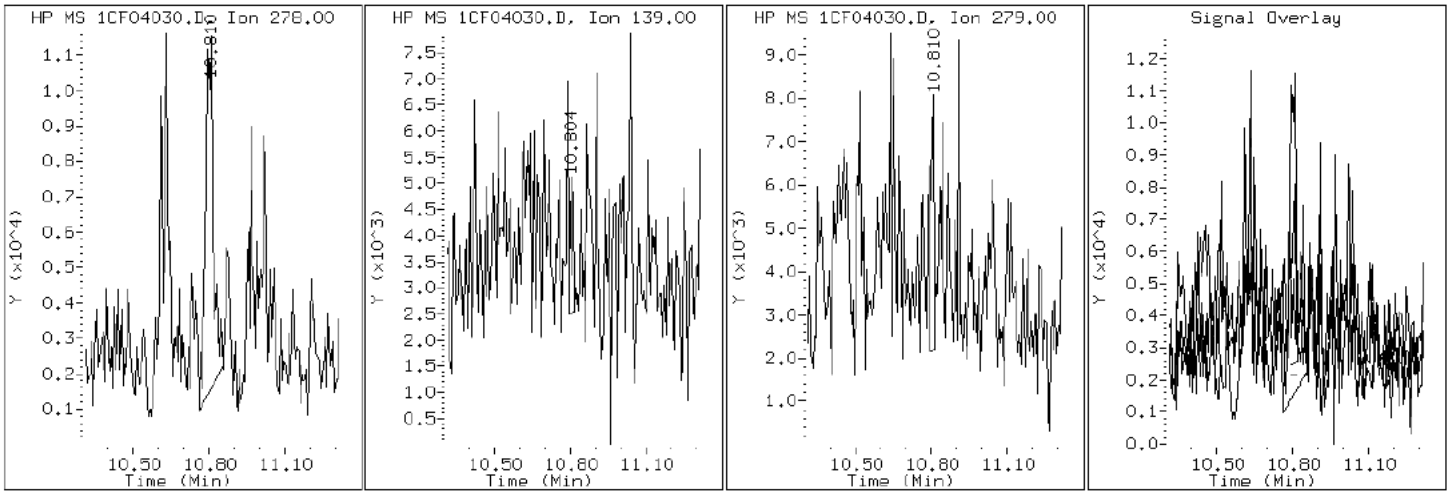
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

25 Dibenzo(a,h)anthracene



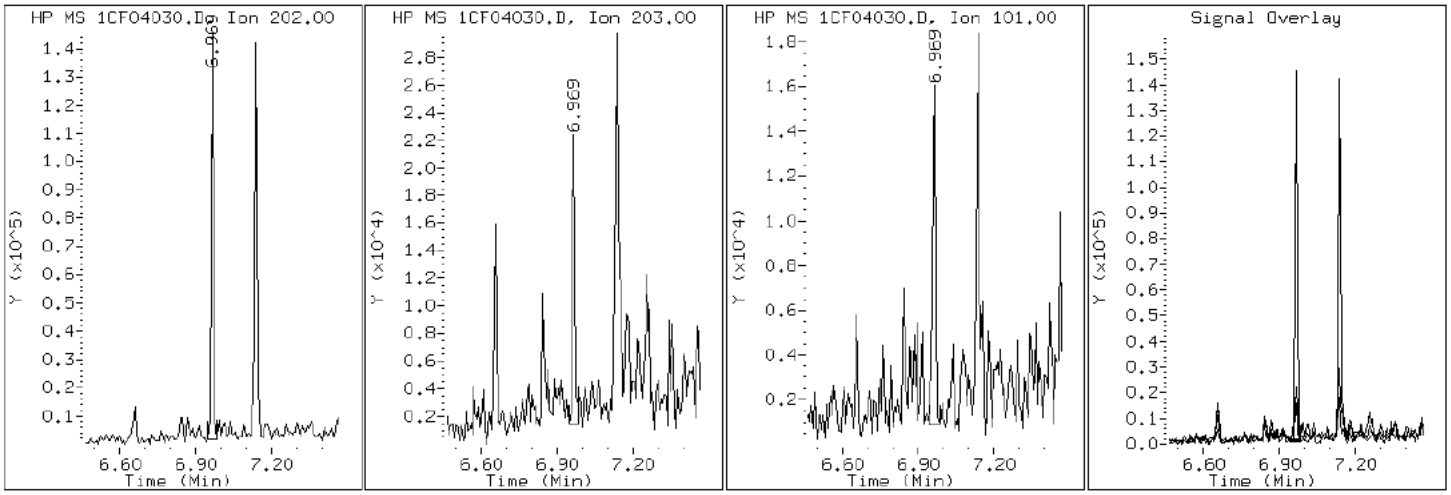
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

15 Fluoranthene



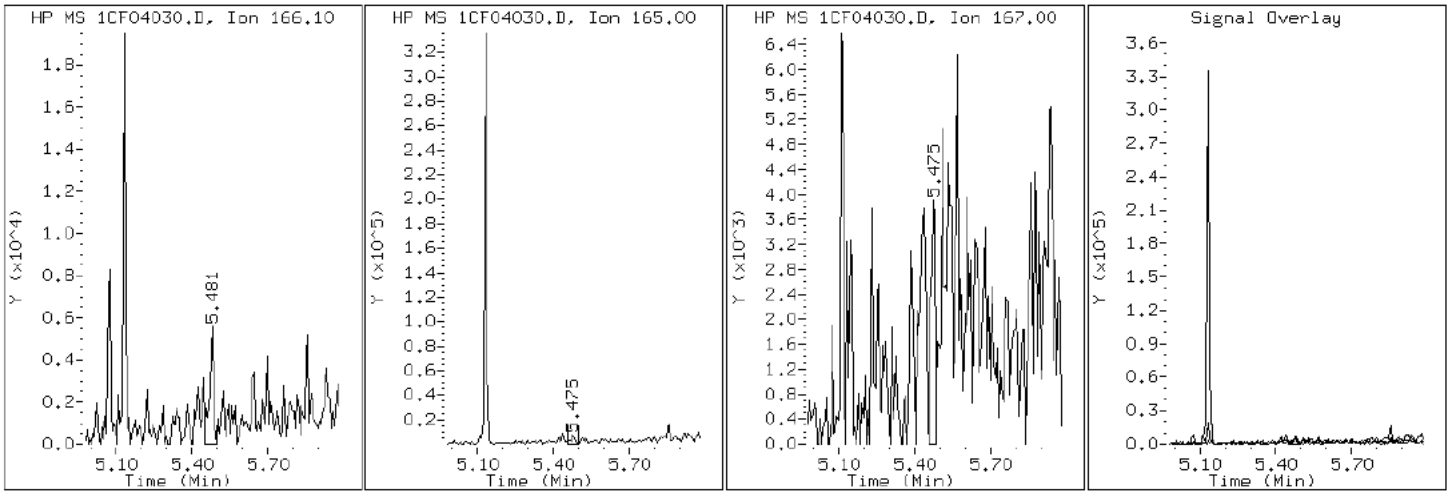
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

9 Fluorene



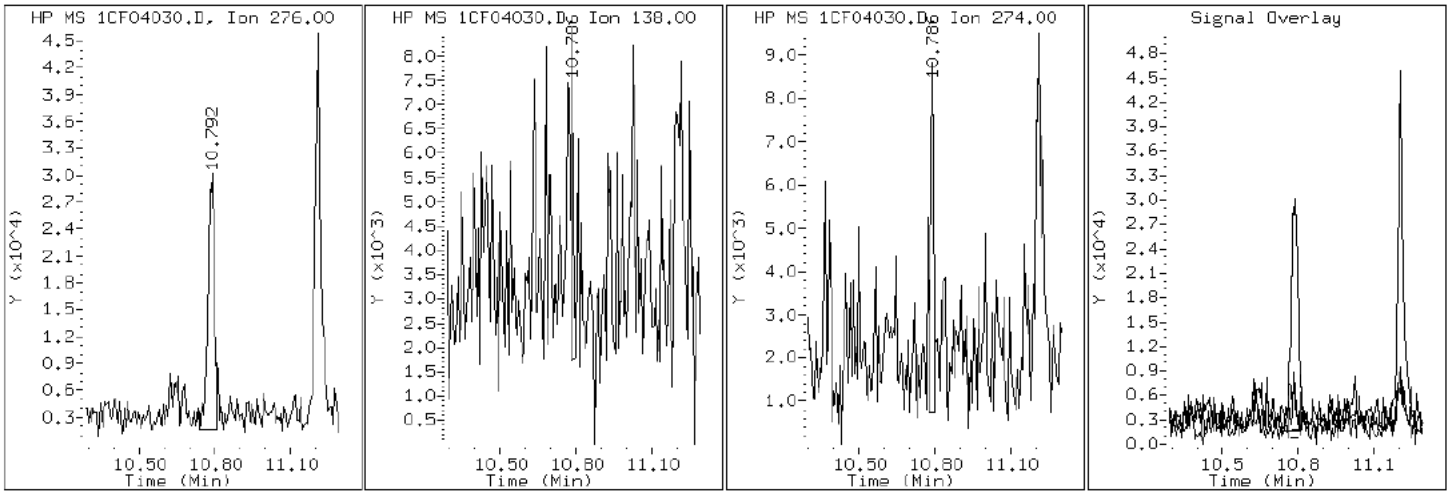
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

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



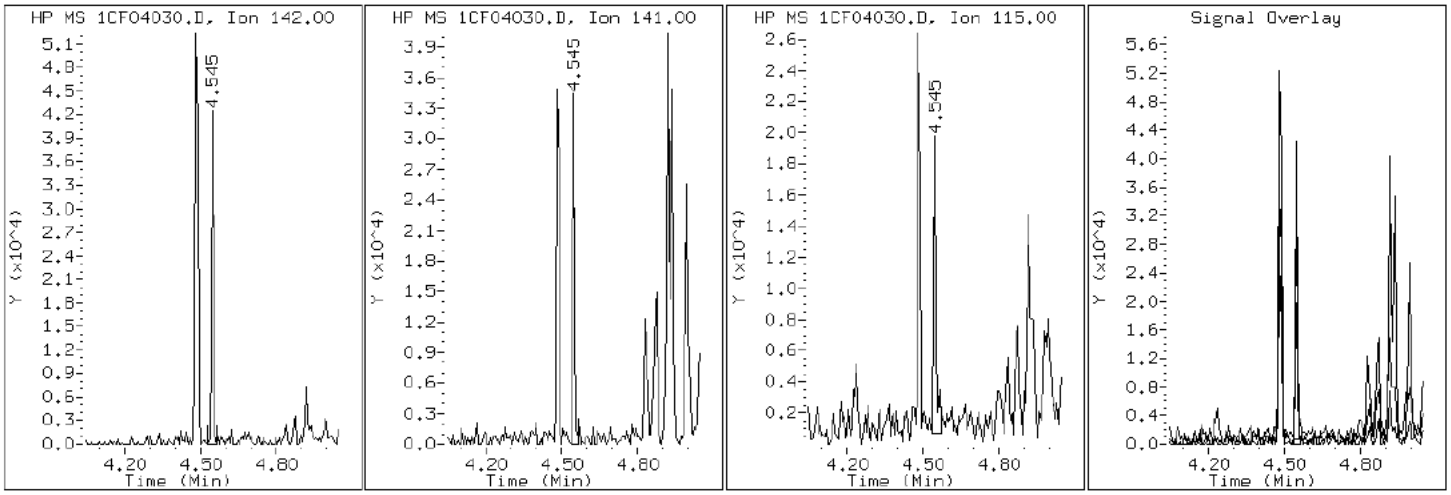
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

4 1-Methylnaphthalene



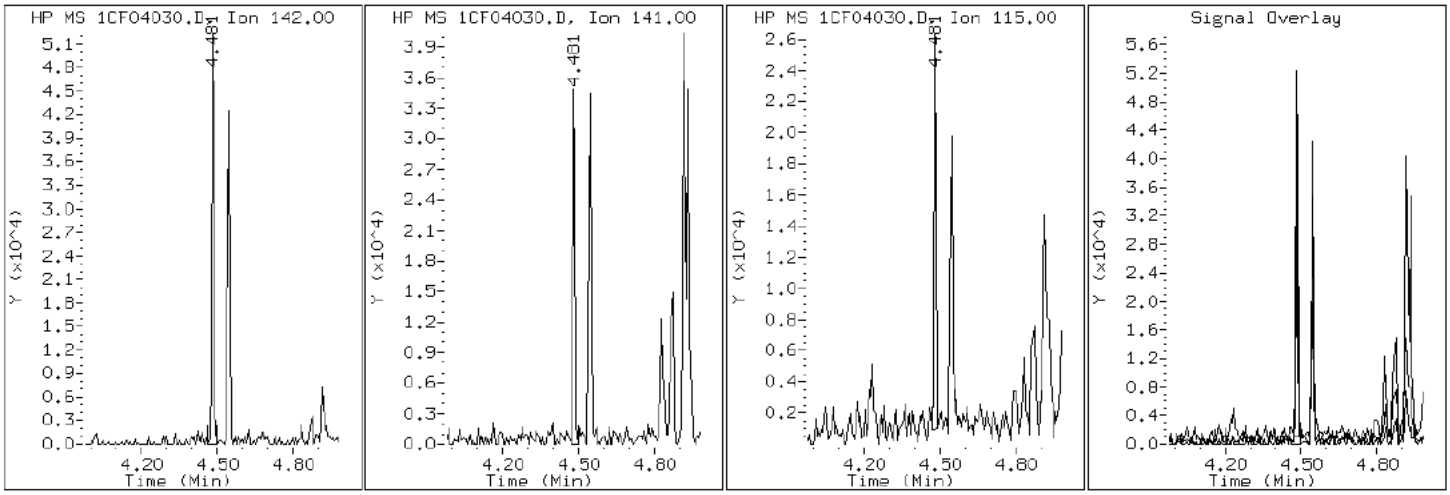
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

3 2-Methylnaphthalene



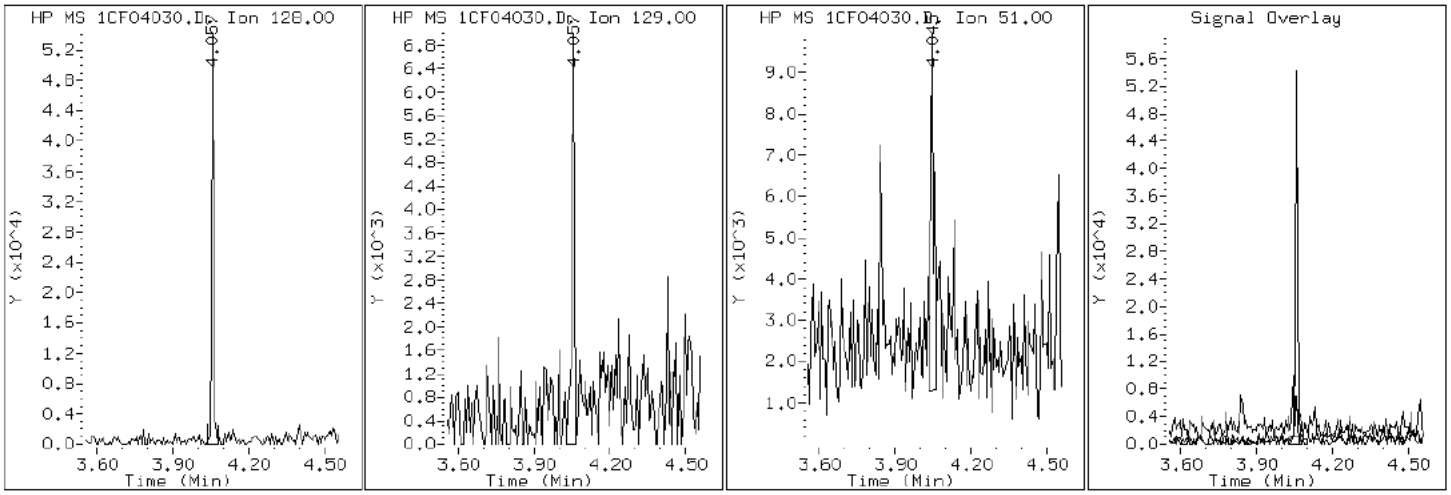
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

2 Naphthalene



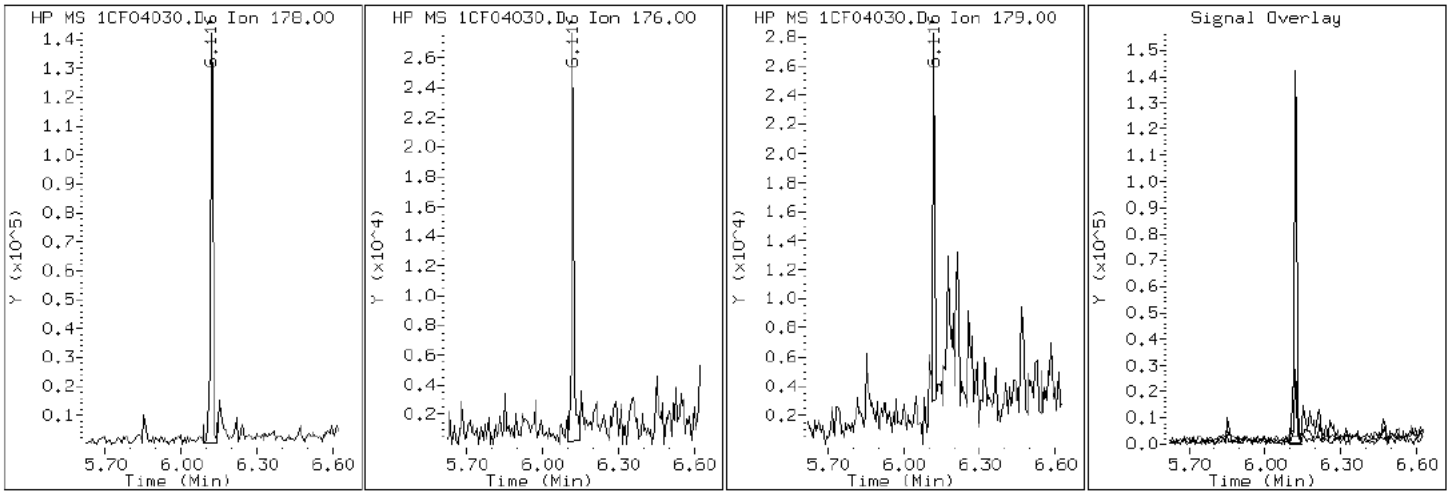
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

11 Phenanthrene



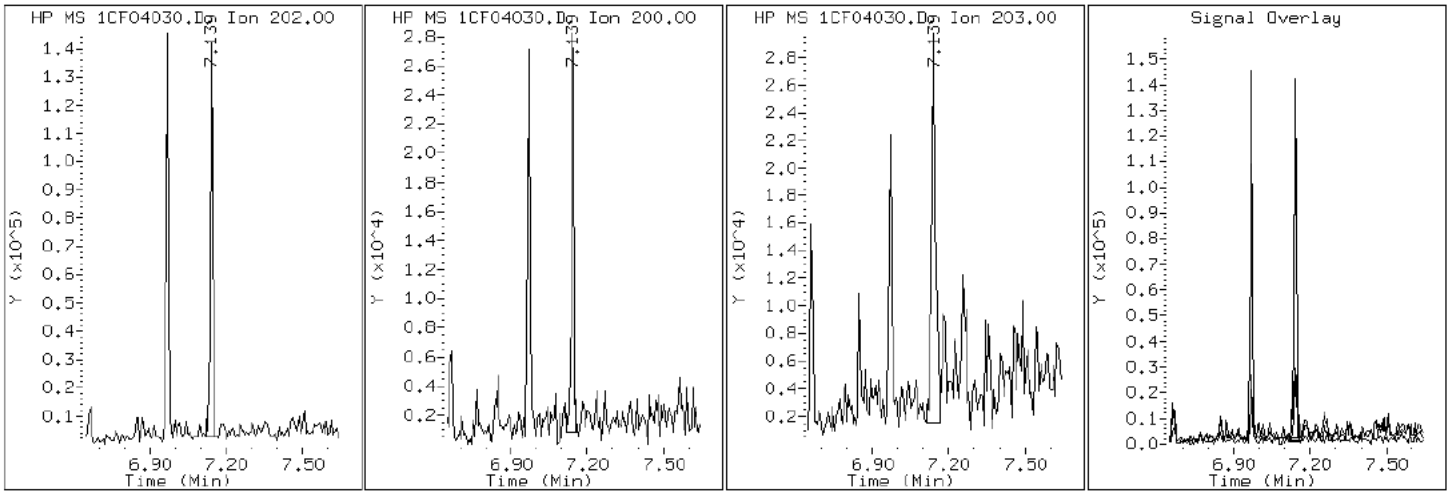
Data File: 1CF04030.D

Date: 04-JUN-2013 19:09

Client ID: CV1008B-CS Instrument: BSMC5973.i

Sample Info: 680-90723-a-20-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CF04030.D
Inj. Date and Time: 04-JUN-2013 19:09
Instrument ID: BSMC5973.i
Client ID: CV1008B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

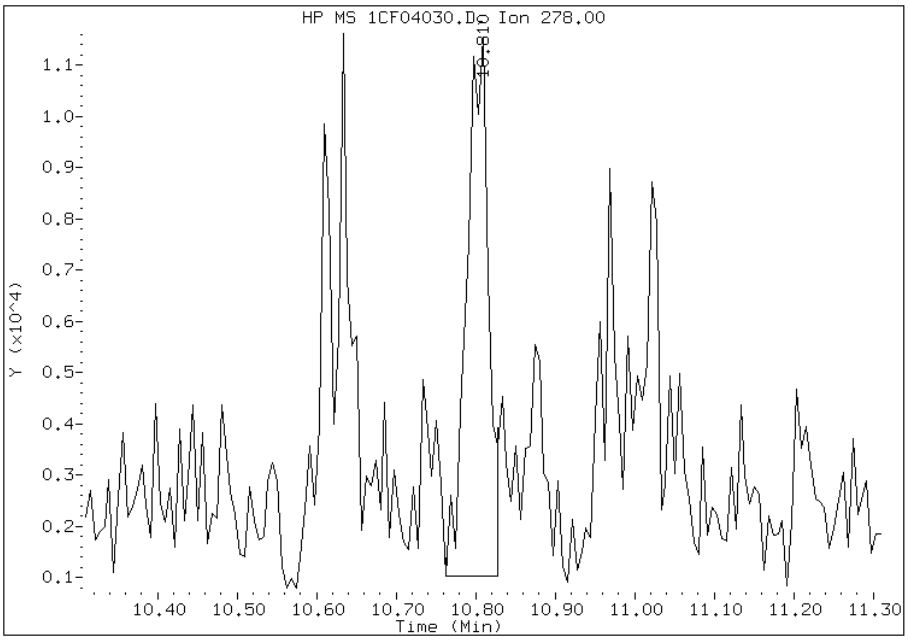
Processing Integration Results

RT: 10.81

Response: 20259

Amount: 0

Conc: 111



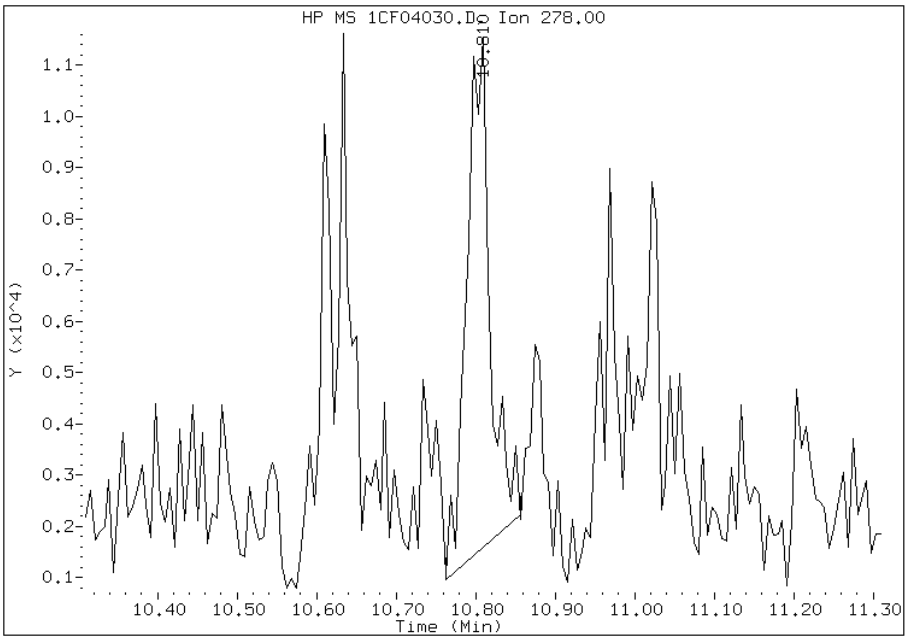
Manual Integration Results

RT: 10.81

Response: 20665

Amount: 0

Conc: 114



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04030.D
Inj. Date and Time: 04-JUN-2013 19:09
Instrument ID: BSMC5973.i
Client ID: CV1008B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

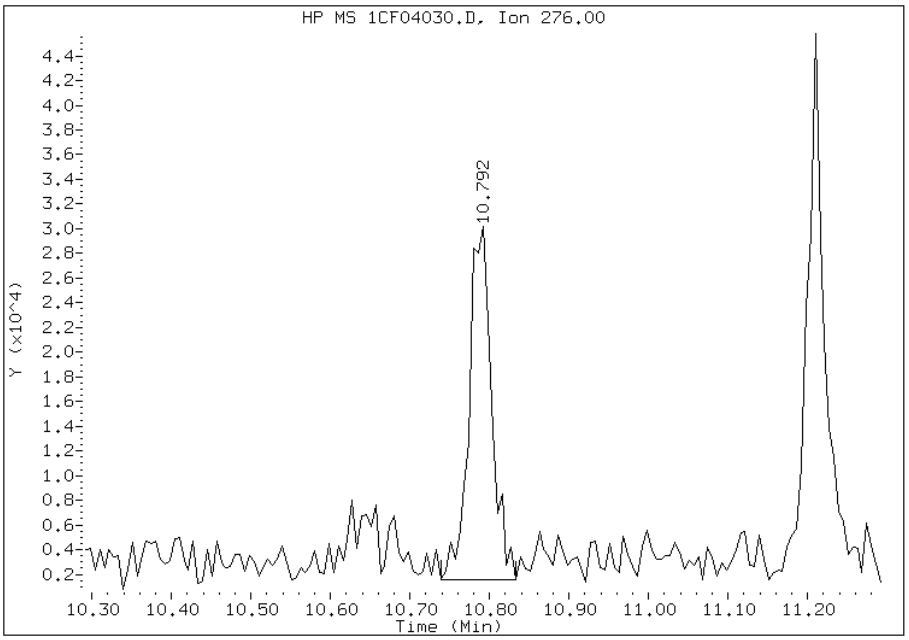
Processing Integration Results

RT: 10.79

Response: 56239

Amount: 1

Conc: 304



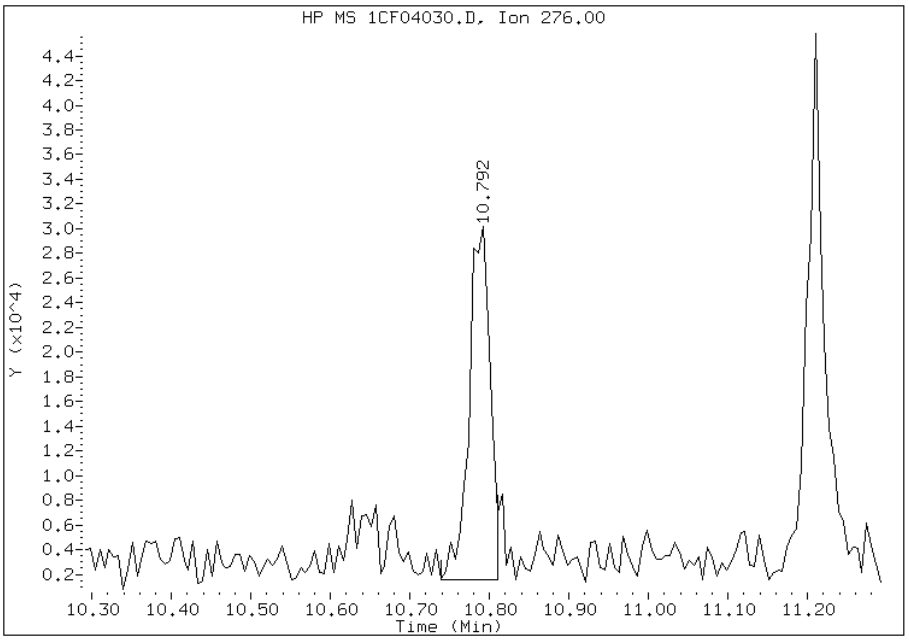
Manual Integration Results

RT: 10.79

Response: 52461

Amount: 1

Conc: 287



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:10
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137704

SDG No.: 68090723-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9182 0.9509	0.9422 1.0286	1.0667	0.9369	0.9568	Ave		1.1288			0.0000	5.6		15.0			
2-Methylnaphthalene	0.6242 0.6258	0.5686 0.6710	0.6225	0.6315	0.6391	Ave		0.6261			0.0000	4.9		15.0			
1-Methylnaphthalene	0.7438 0.6277	0.4975 0.6372	0.5963	0.6068	0.6028	Ave		0.6160			0.0000	11.8		15.0			
Acenaphthylene	1.2563 1.6292	1.4148 1.6925	1.5322	1.5773	1.6316	Ave		1.5334			0.0000	9.9		15.0			
Acenaphthene	0.7430 0.9987	0.8575 1.0497	1.0996	0.9725	1.0102	Ave		0.9616			0.0000	12.7		15.0			
Fluorene	0.9904 1.3220	1.0977 1.3921	1.2331	1.2548	1.2987	Ave		1.2270			0.0000	11.3		15.0			
Phenanthrene	1.4131 1.1675	1.0733 1.2047	1.2101	1.0895	1.1143	Ave		1.1818			0.0000	9.8		15.0			
Anthracene	0.8123 1.1883	1.1171 1.2099	1.1168	1.0984	1.1211	Ave		1.0948			0.0000	12.0		15.0			
Fluoranthene	1.0490 1.3113	1.0871 1.3420	1.2157	1.1933	1.2571	Ave		1.2079			0.0000	9.0		15.0			
Pyrene	1.0885 1.1391	0.9218 1.1459	1.0775	1.0624	1.1258	Ave		1.0801			0.0000	7.1		15.0			
Benzo[a]anthracene	1.3846 1.1143	0.9995 1.1132	1.0089	1.0134	1.0870	Ave		1.1030			0.0000	12.1		15.0			
Chrysene	0.9124 1.1117	1.1529 1.1361	1.2178	1.1306	1.1120	Ave		1.1105			0.0000	8.5		15.0			
Benzo[b]fluoranthene	0.9101 1.0977	0.8395 1.1170	0.9076	0.9393	1.0683	Ave		0.9828			0.0000	11.1		15.0			
Benzo[k]fluoranthene	0.9706 1.1302	0.9697 1.2215	1.1208	1.1676	1.1031	Ave		1.0977			0.0000	8.7		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137704

SDG No.: 68090723-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	0.5319 1.0385	0.7463 1.1113	0.9316	0.9755	1.0099	Lin2	0.0025	1.0051							0.9923		
Indeno[1,2,3-cd]pyrene	0.5693 1.0544	0.7359 1.1402	0.8970	0.9571	0.9660	None	0.0040	1.0698							0.9942		
Dibenz(a,h)anthracene	0.7117 0.9449	0.7154 0.9858	0.8240	0.8860	0.9085	Ave		0.8538			0.0000	12.6		15.0			
Benzo[g,h,i]perylene	0.8170 0.9805	0.7856 1.0513	0.9373	0.9390	0.9942	Ave		0.9293			0.0000	10.3		15.0			
o-Terphenyl	0.5070 0.6731	0.6108 0.6782	0.6532	0.6025	0.6369	Ave		0.6231			0.0000	9.4		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137704

SDG No.: 68090723-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	10788 1475133	43167 2829693	277572	502511	1290268	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7334 970702	26053 1846051	161984	338697	861867	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8739 973704	22793 1753070	155163	325468	812801	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10091 1744024	43693 3262336	272410	595358	1503680	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5968 1069111	26483 2023281	195498	367076	930965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7955 1415229	33899 2683311	219224	473626	1196881	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22296 2310027	62422 4422781	404697	781016	2021508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12816 2351205	64974 4441751	373497	787403	2033868	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16551 2594572	63229 4926903	406556	855481	2280567	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	20607 2821005	64768 5350270	445351	946073	2585241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	26214 2759615	70230 5197458	417004	902407	2496189	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	17274 2753228	81010 5304178	503367	1006797	2553612	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	17929 2780406	62459 5119876	393956	813573	2511123	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	19122 2862522	72150 5598875	486517	1011311	2593145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	10479 2630366	55523 5093564	404398	844912	2373859	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137704

SDG No.: 68090723-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	PRY	None	11215 2670728	54750 5226444	389350	828947	2270654	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	14021 2393229	53230 4518350	357696	767380	2135605	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	16095 2483401	58451 4818870	406852	813279	2336946	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7999 1331814	35524 2489982	218457	431889	1155503	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

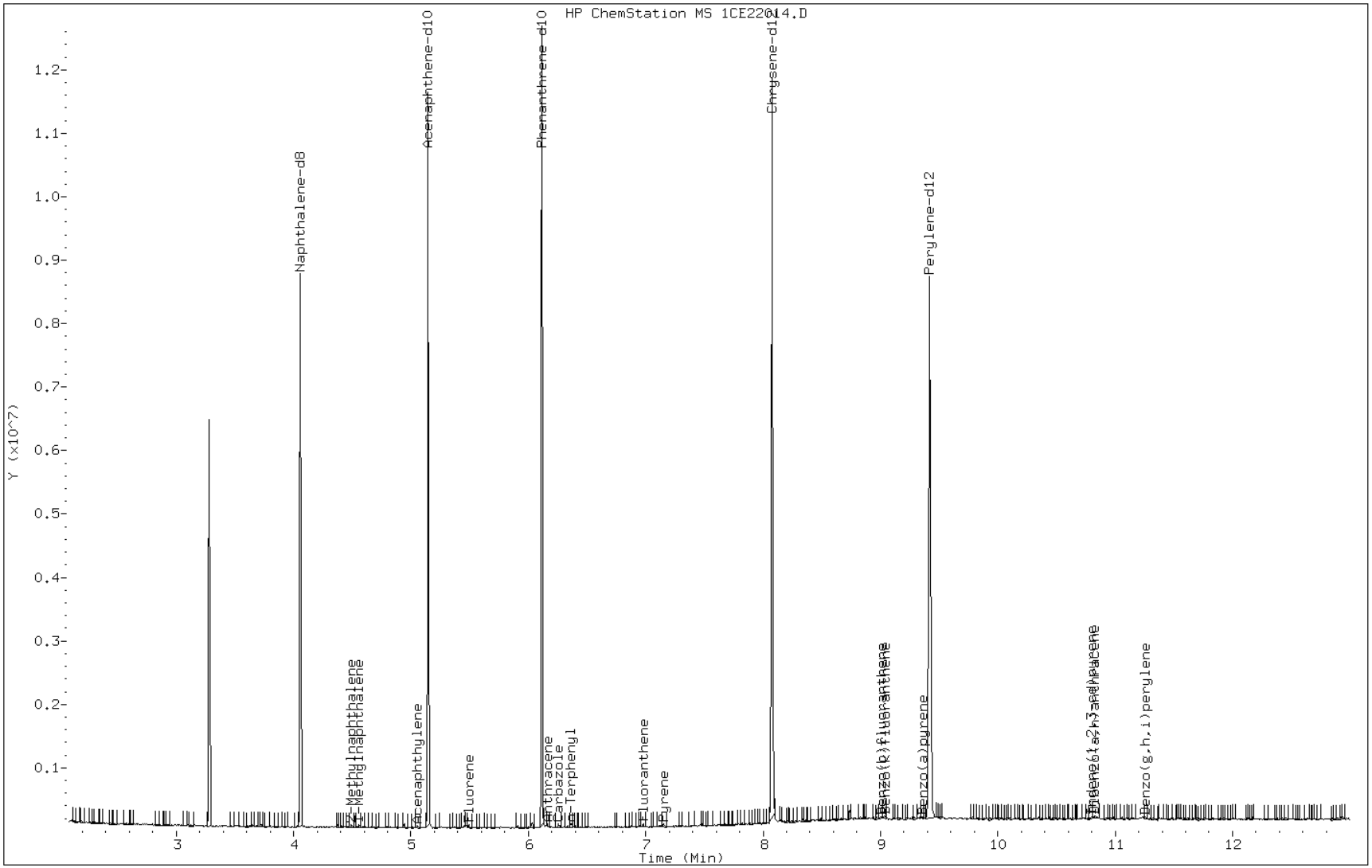
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22014.D

Date: 22-MAY-2013 16:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

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

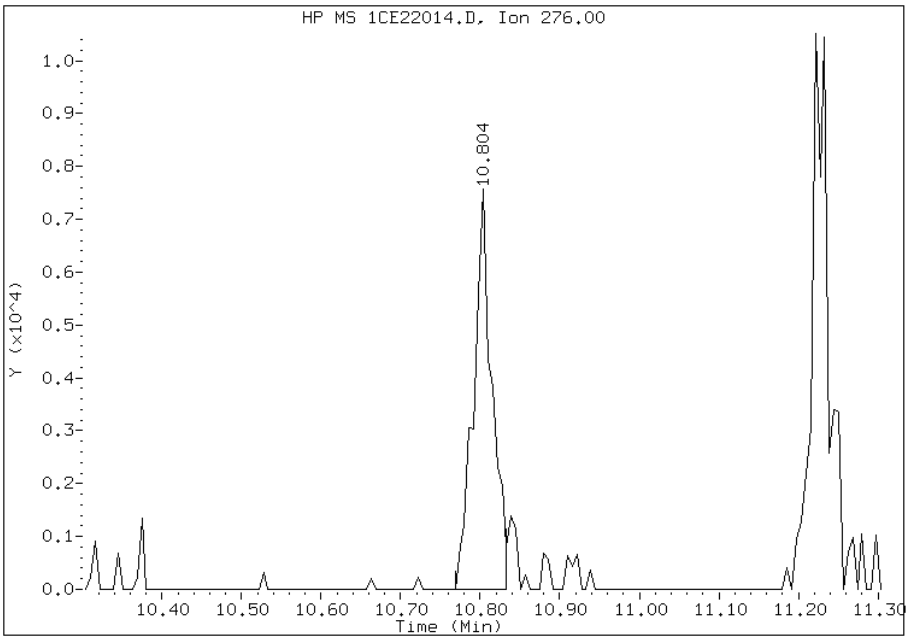
Processing Integration Results

RT: 10.80

Response: 12188

Amount: 1

Conc: 1



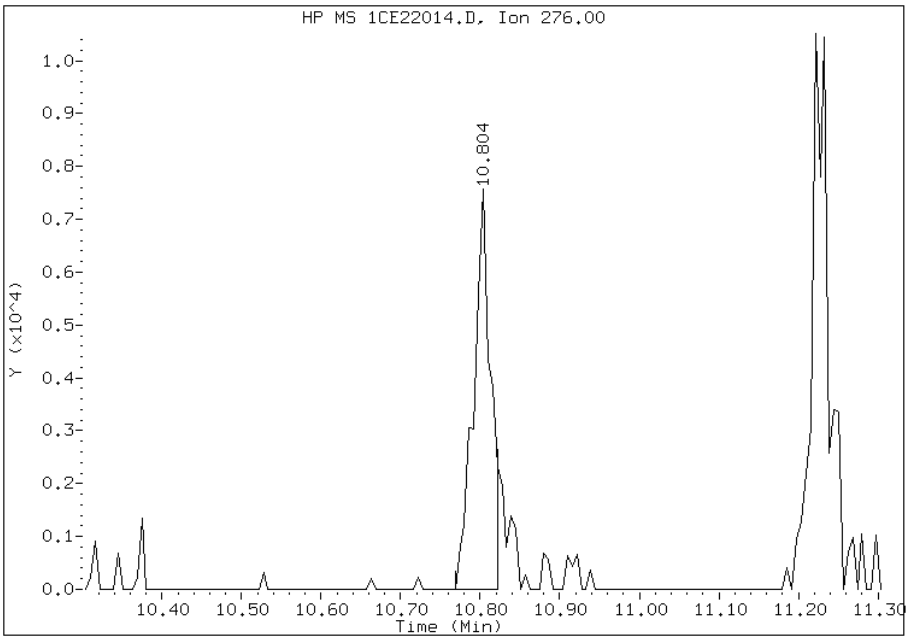
Manual Integration Results

RT: 10.80

Response: 11215

Amount: 1

Conc: 1



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

Manual Integration Report

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

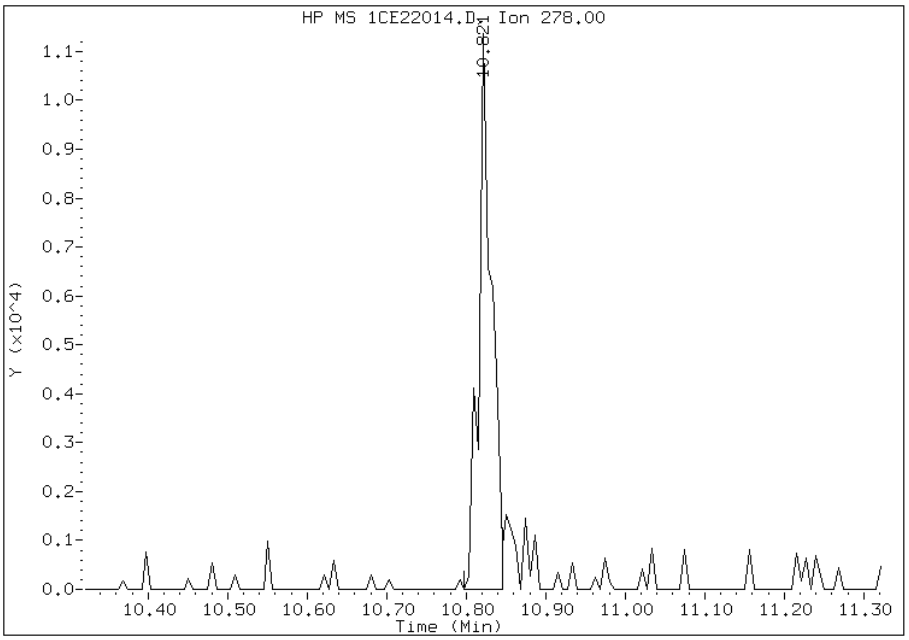
Processing Integration Results

RT: 10.82

Response: 12738

Amount: 0

Conc: 0



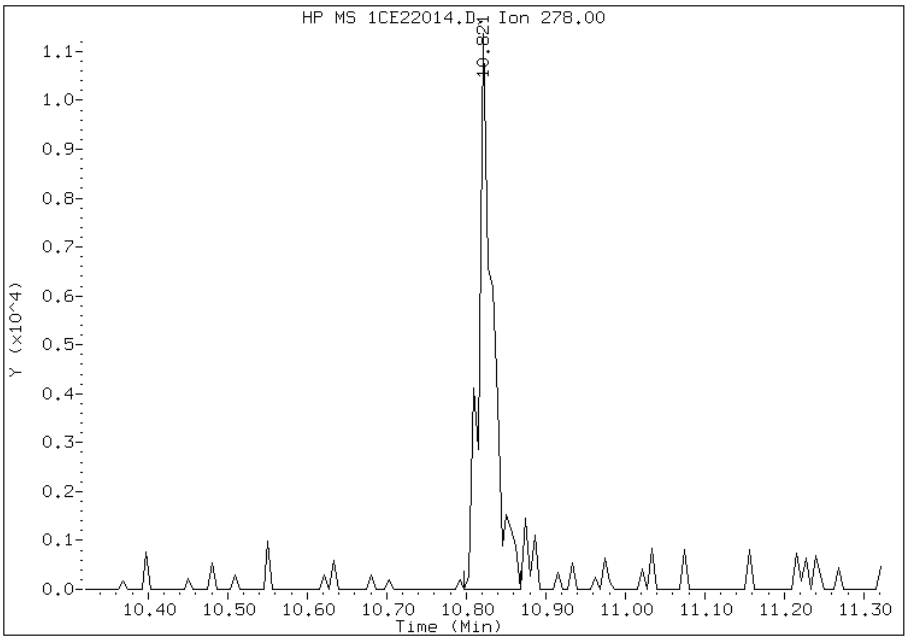
Manual Integration Results

RT: 10.82

Response: 14021

Amount: 0

Conc: 0



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

Manual Integration Report

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

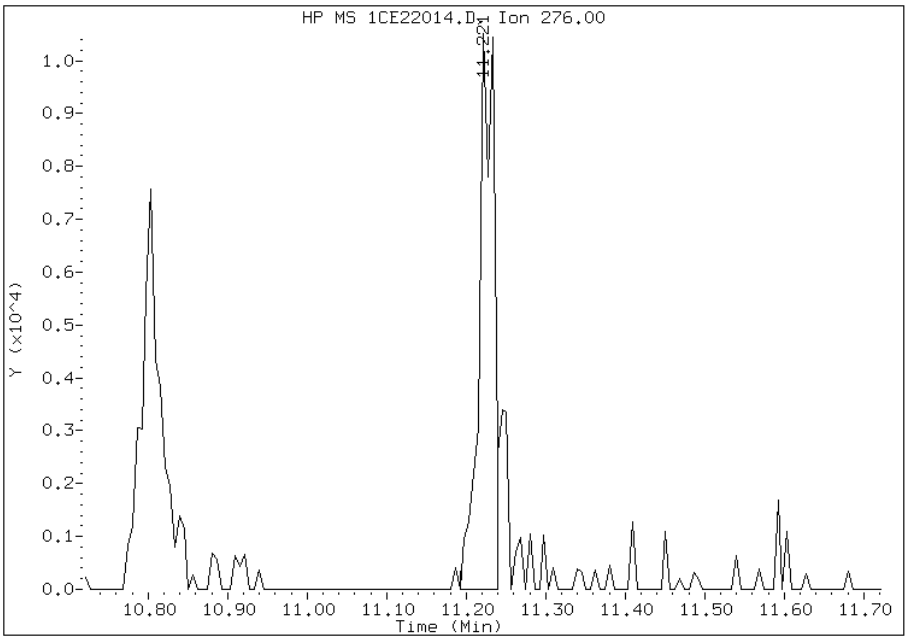
Processing Integration Results

RT: 11.22

Response: 13709

Amount: 0

Conc: 0



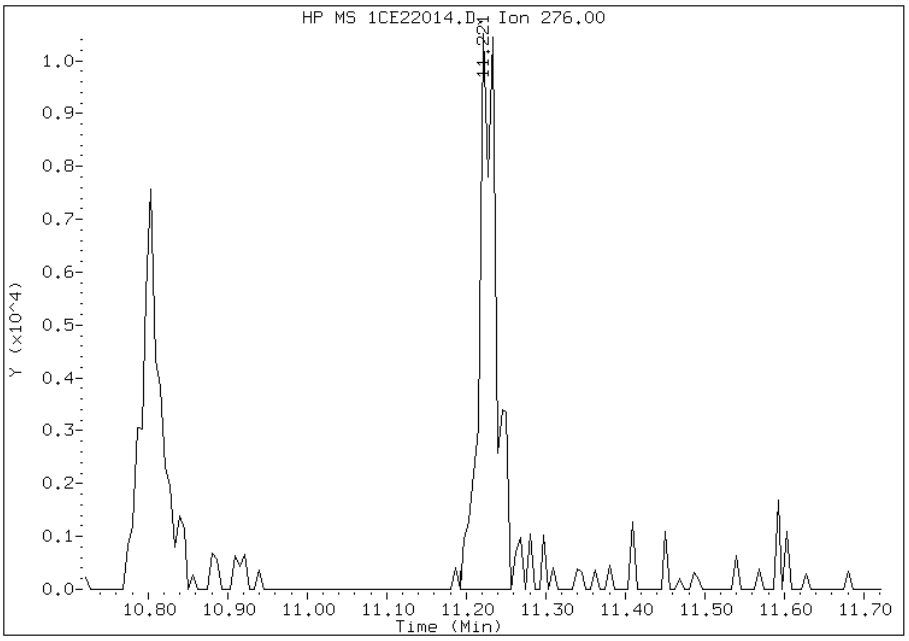
Manual Integration Results

RT: 11.22

Response: 16095

Amount: 0

Conc: 0



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

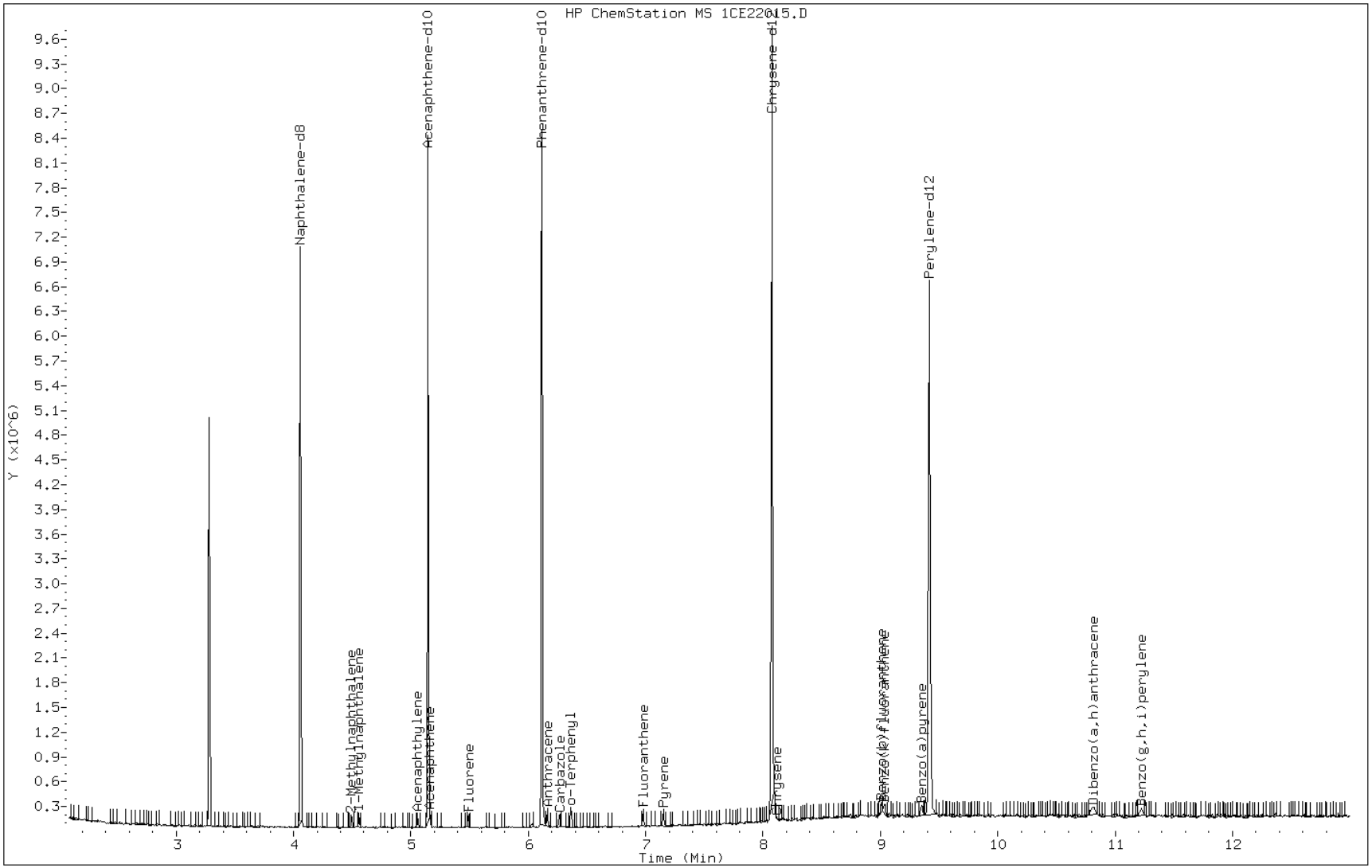
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CE22015.D

Date: 22-MAY-2013 16:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

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

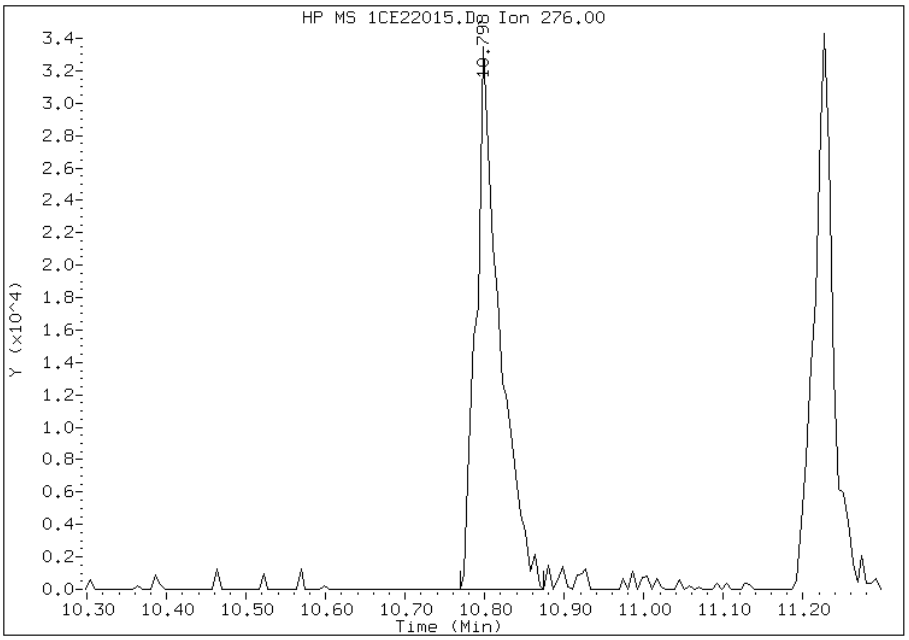
Processing Integration Results

RT: 10.80

Response: 69013

Amount: 1

Conc: 1



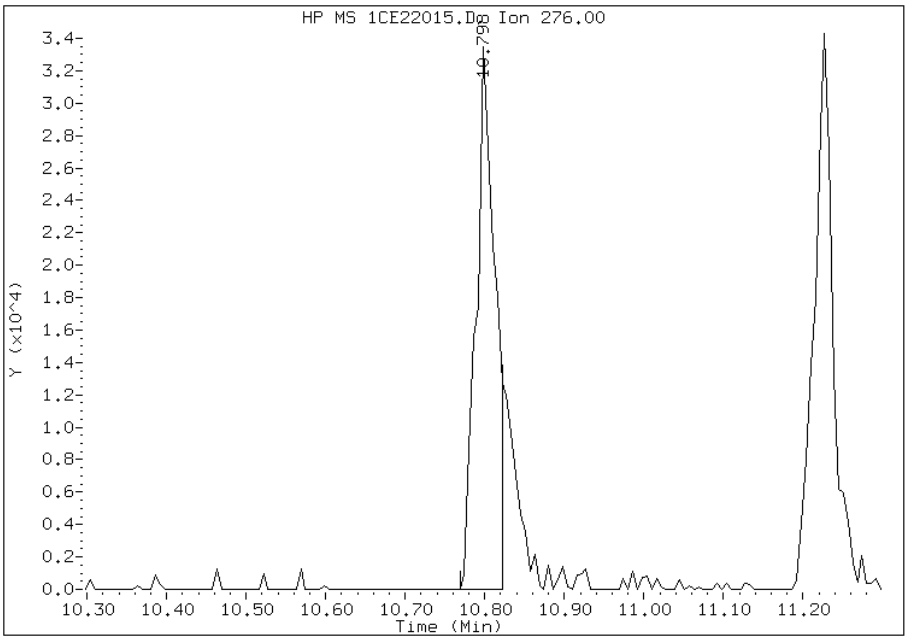
Manual Integration Results

RT: 10.80

Response: 54750

Amount: 2

Conc: 2



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

Manual Integration Report

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

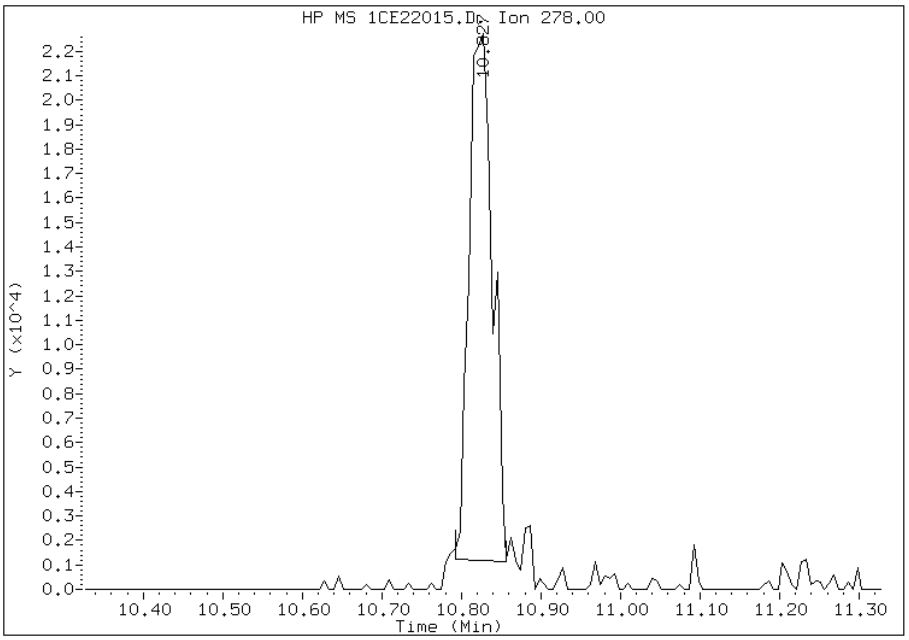
Processing Integration Results

RT: 10.83

Response: 43916

Amount: 1

Conc: 1



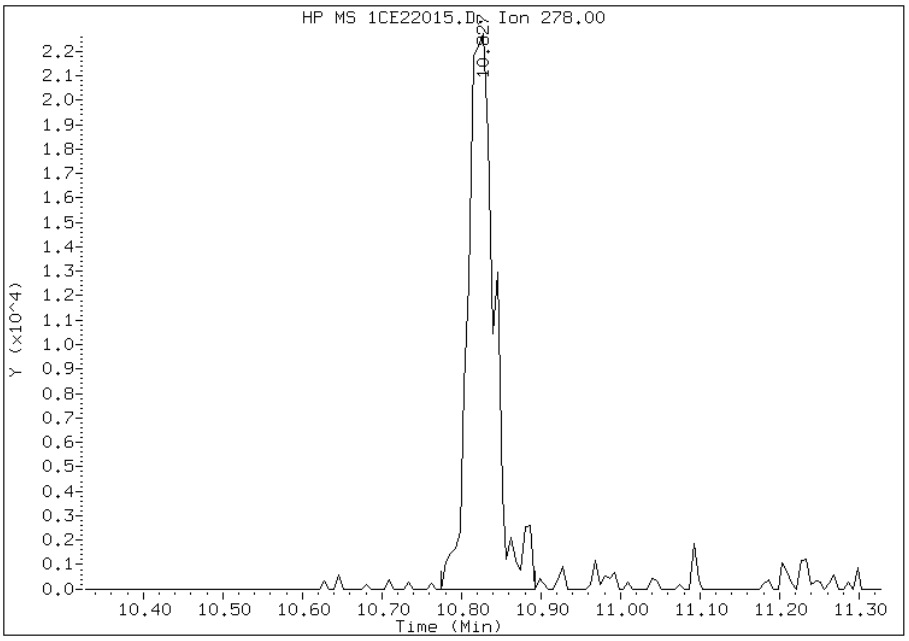
Manual Integration Results

RT: 10.83

Response: 53230

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22016.D

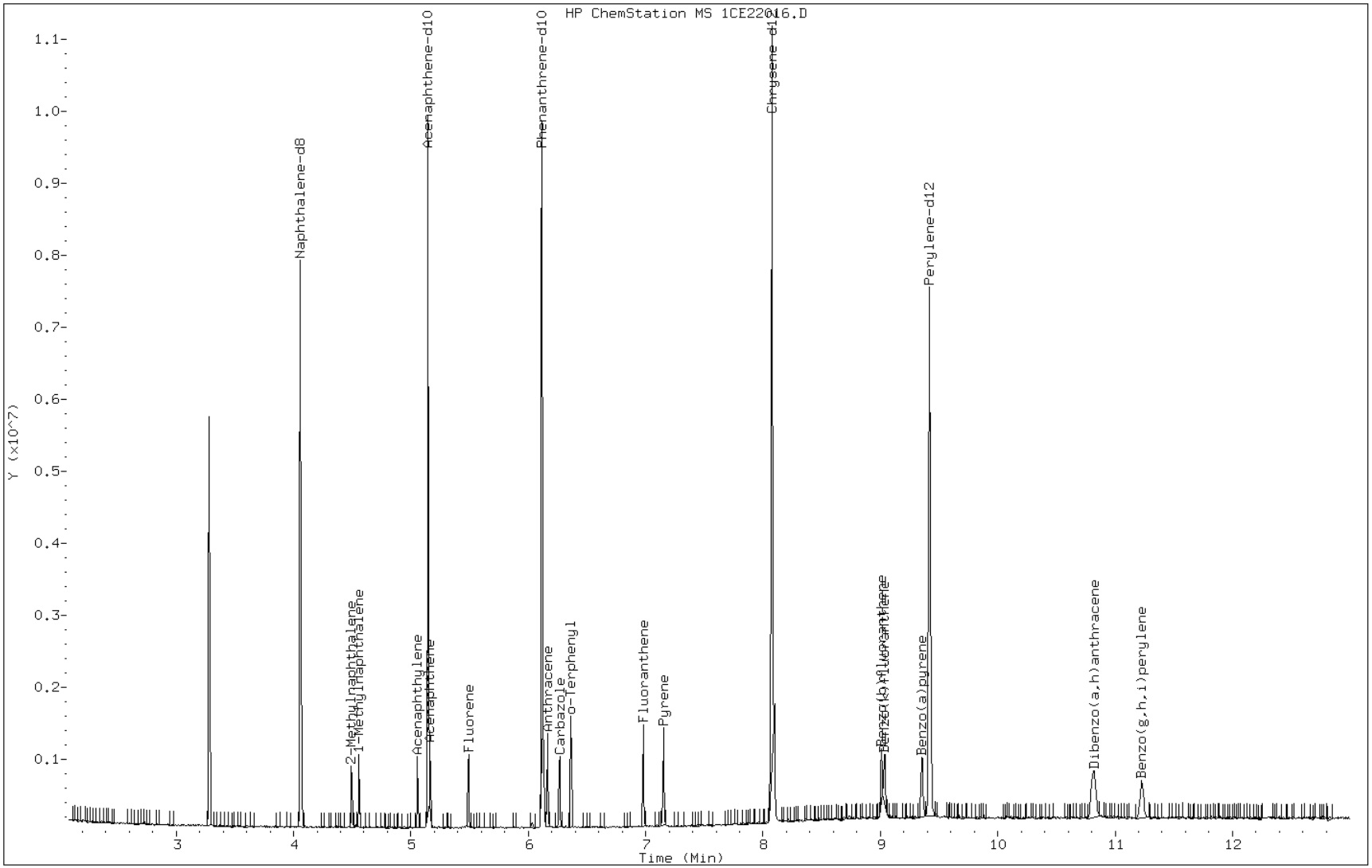
Date: 22-MAY-2013 16:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC



Manual Integration Report

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

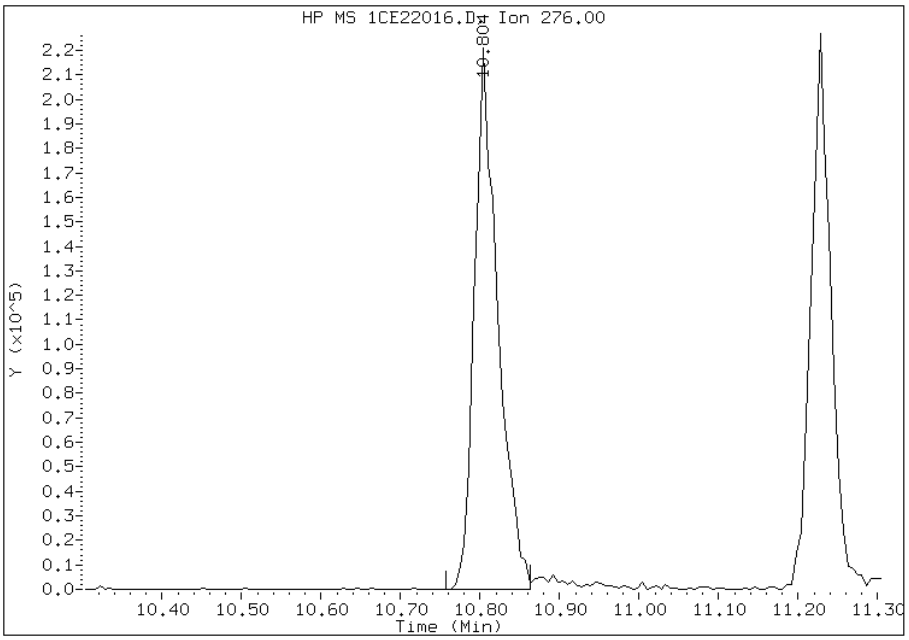
Processing Integration Results

RT: 10.80

Response: 449154

Amount: 5

Conc: 5



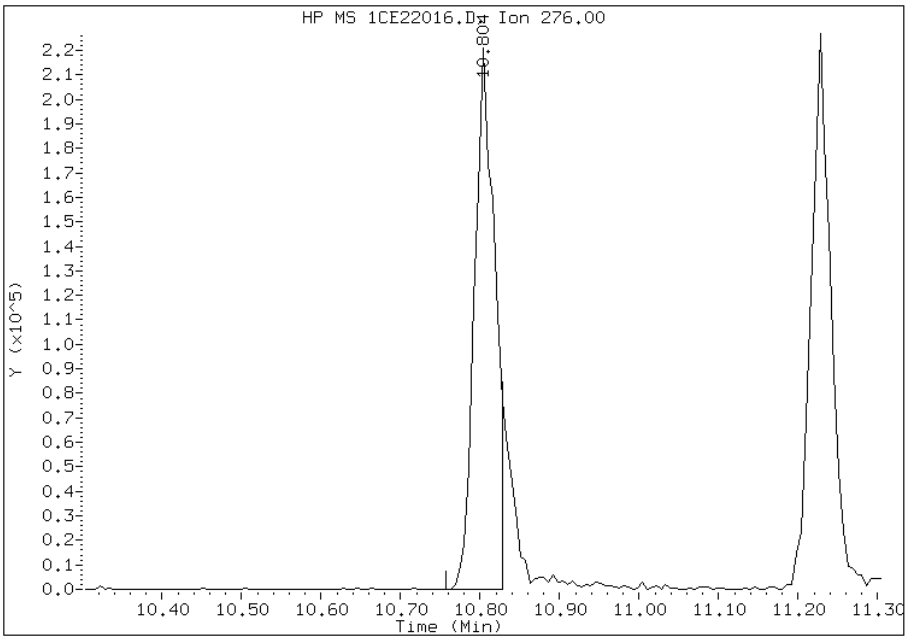
Manual Integration Results

RT: 10.80

Response: 389350

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22017.D

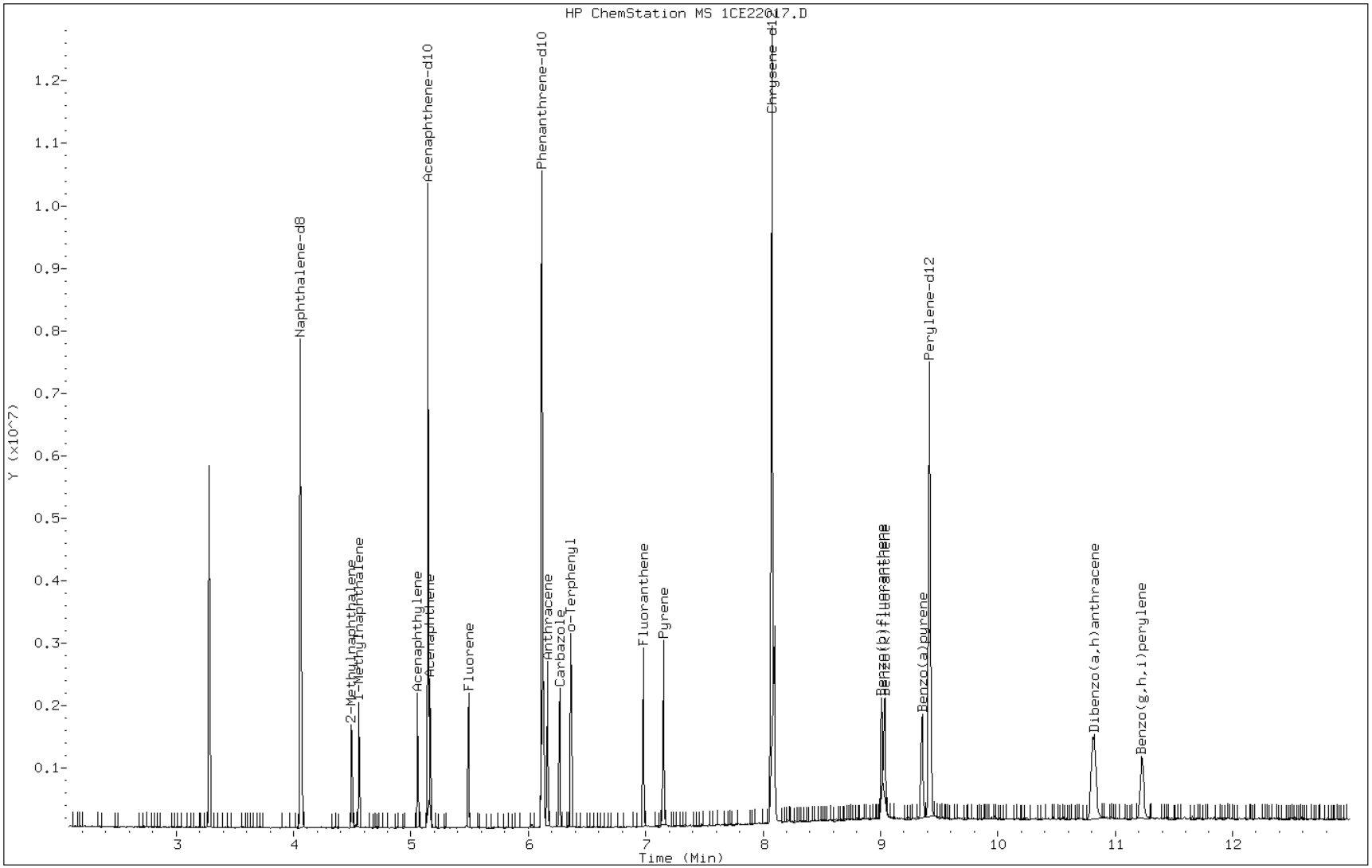
Date: 22-MAY-2013 17:10

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

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

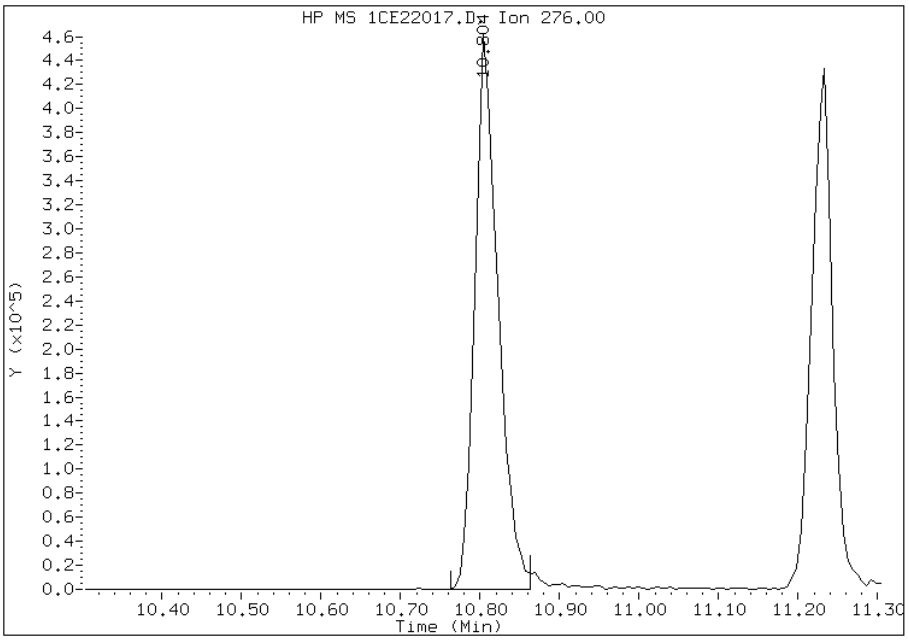
Processing Integration Results

RT: 10.80

Response: 934640

Amount: 10

Conc: 10



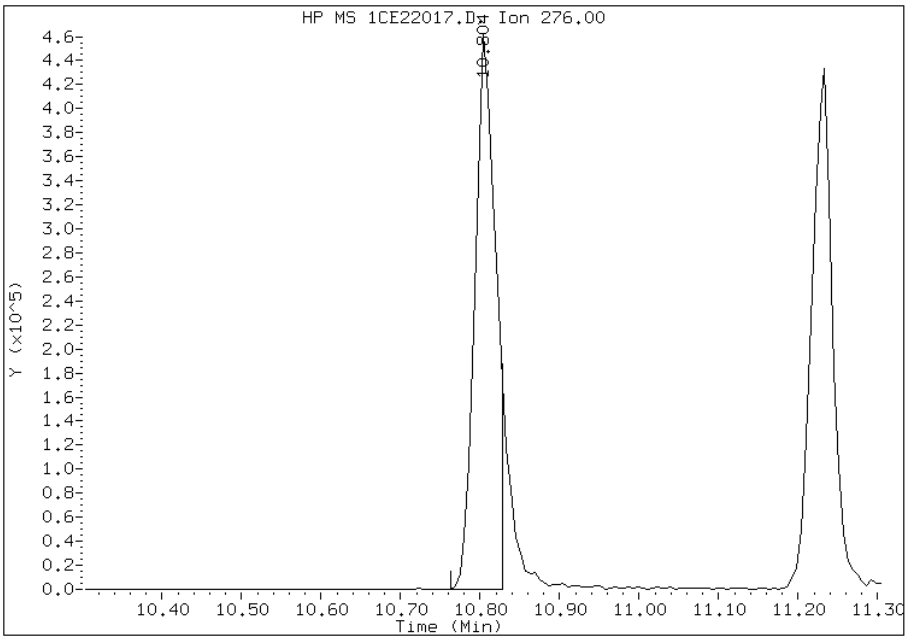
Manual Integration Results

RT: 10.80

Response: 828947

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2696939	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1843203	40.0000	
* 10 Phenanthrene-d10	188	6.116	6.116	(1.000)	3628372	40.0000	
$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	1155503	20.0000	20.4438
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	4592658	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	4701347	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	1290268	20.0000	20.2392
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	861867	20.0000	20.4173
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	812801	20.0000	19.6680
5 Acenaphthylene	152	5.057	5.057	(0.983)	1503680	20.0000	20.2242
7 Acenaphthene	154	5.163	5.163	(1.003)	930965	20.0000	19.6899
9 Fluorene	166	5.492	5.492	(1.067)	1196881	20.0000	19.3332
11 Phenanthrene	178	6.133	6.133	(1.003)	2021508	20.0000	18.8578
12 Anthracene	178	6.163	6.163	(1.008)	2033868	20.0000	19.0224
13 Carbazole	167	6.268	6.268	(1.025)	1771988	20.0000	21.4818
15 Fluoranthene	202	6.980	6.980	(1.141)	2280567	20.0000	19.2658
16 Pyrene	202	7.151	7.151	(0.885)	2585241	20.0000	20.8460
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2496189	20.0000	19.9640
19 Chrysene	228	8.098	8.098	(1.002)	2553612	20.0000	20.0277
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.956)	2511123	20.0000	21.7394
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2593145	20.0000	20.1000
22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2373859	20.0000	19.0736
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2270654	20.0000	18.1509(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.149)	2135605	20.0000	21.2824
26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2336946	20.0000	21.3967

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22018.D

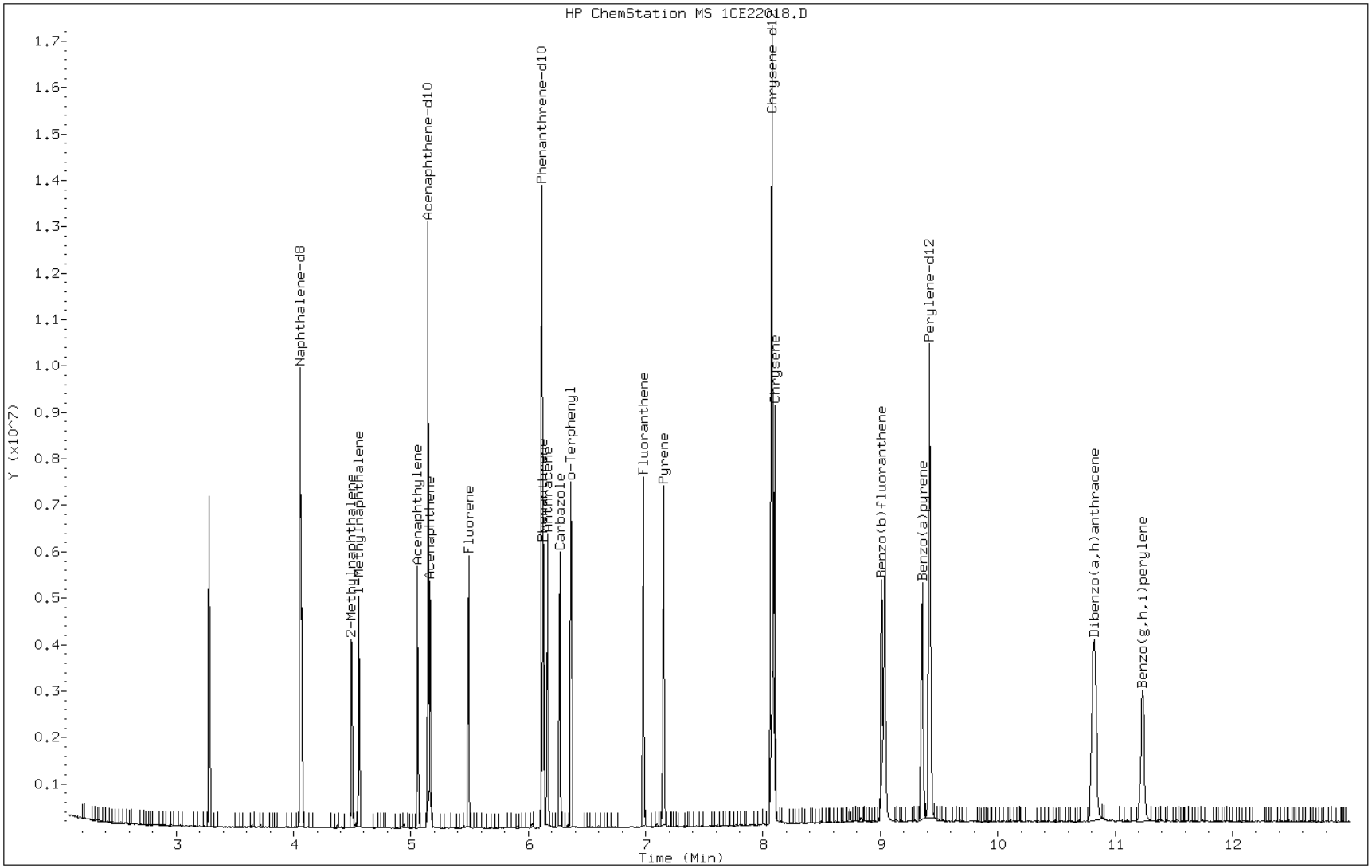
Date: 22-MAY-2013 17:29

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CE22018.D
Inj. Date and Time: 22-MAY-2013 17:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

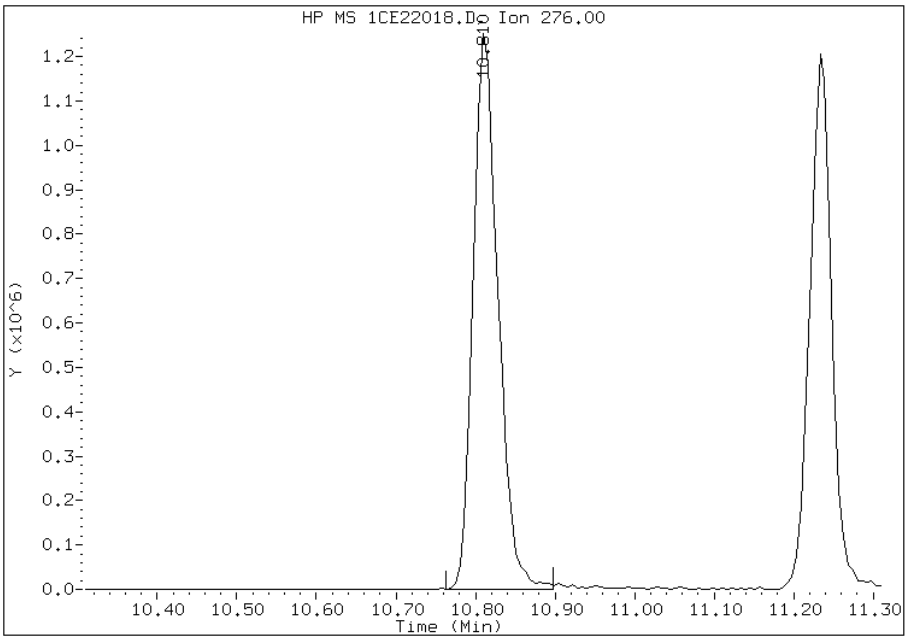
Processing Integration Results

RT: 10.81

Response: 2702405

Amount: 21

Conc: 21



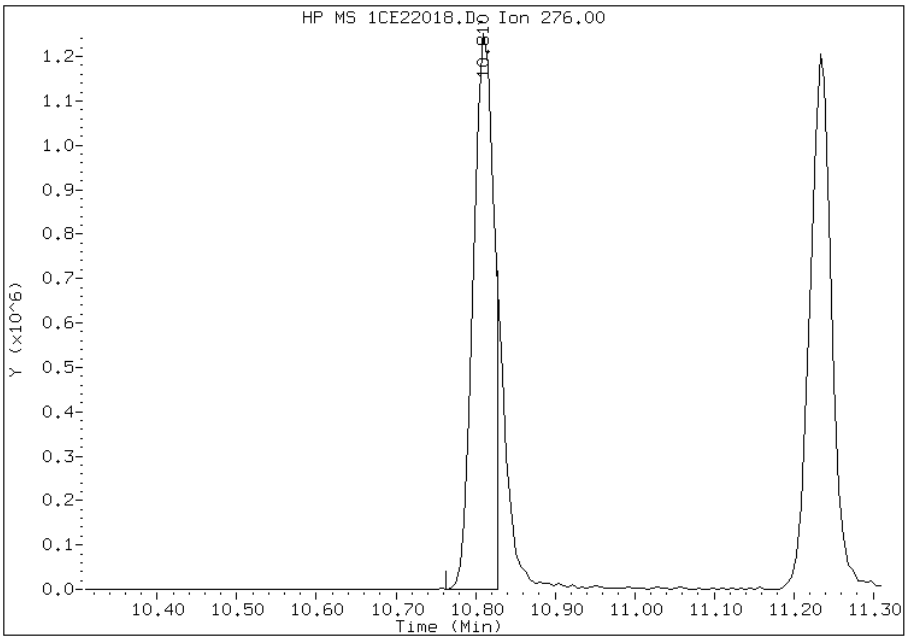
Manual Integration Results

RT: 10.81

Response: 2270654

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-May-2013 18:03
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22019.D
Lab Smp Id: IC-1531402
Inj Date : 22-MAY-2013 17:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD
Cal Date : 22-MAY-2013 17:29 Cal File: 1CE22018.D
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

QC Flag Legend

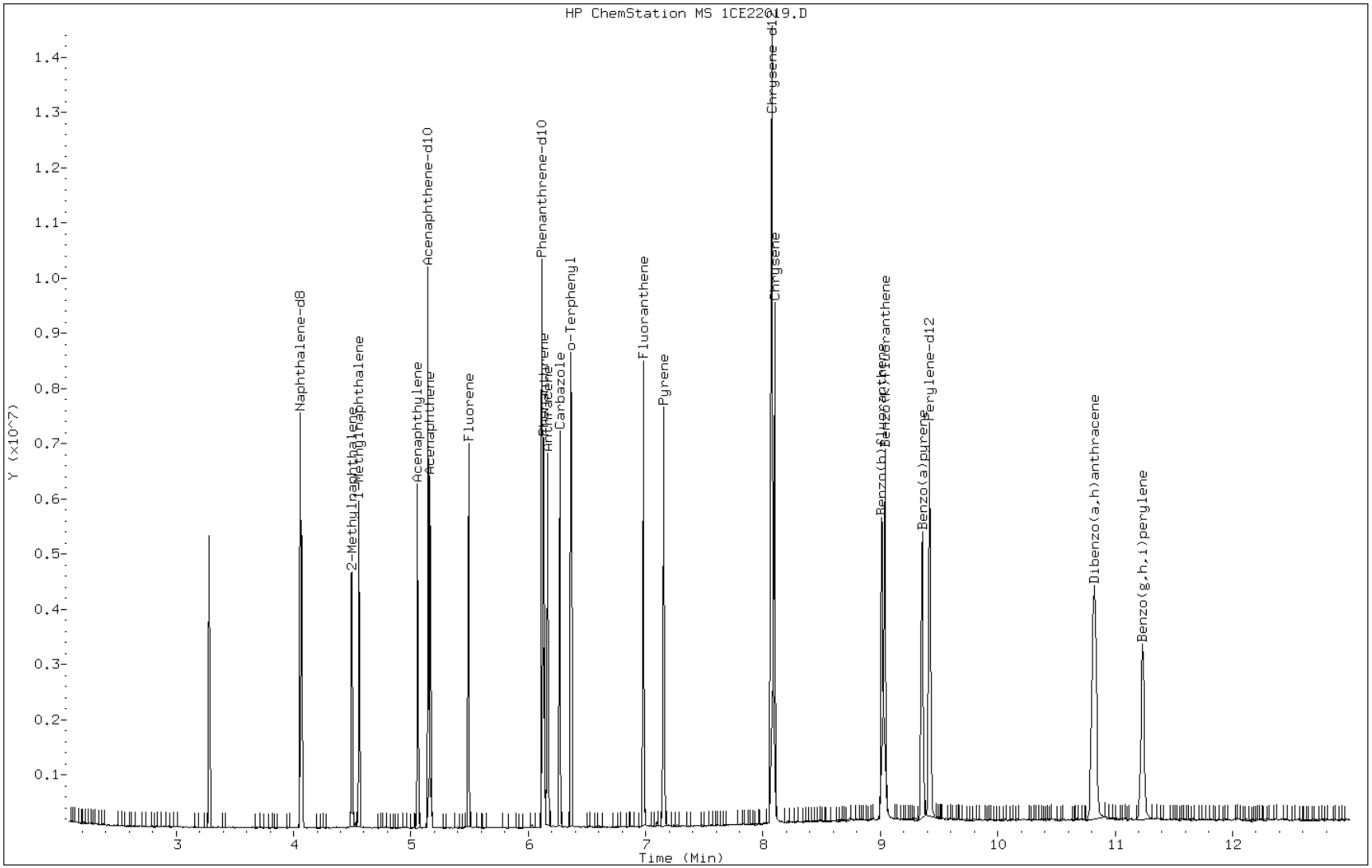
M - Compound response manually integrated.

Data File: 1CE22019.D

Date: 22-MAY-2013 17:47

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

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

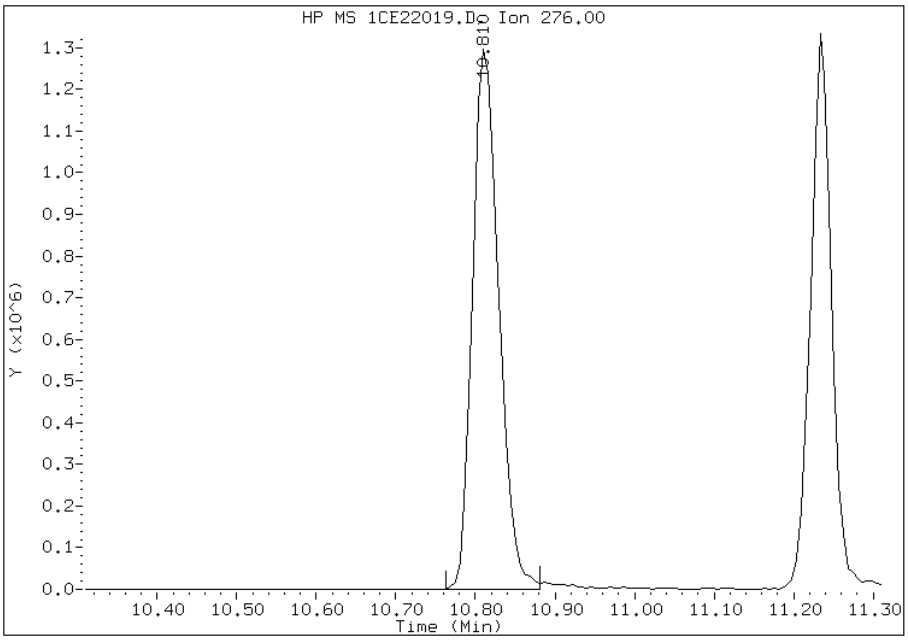
Processing Integration Results

RT: 10.81

Response: 2965644

Amount: 32

Conc: 32



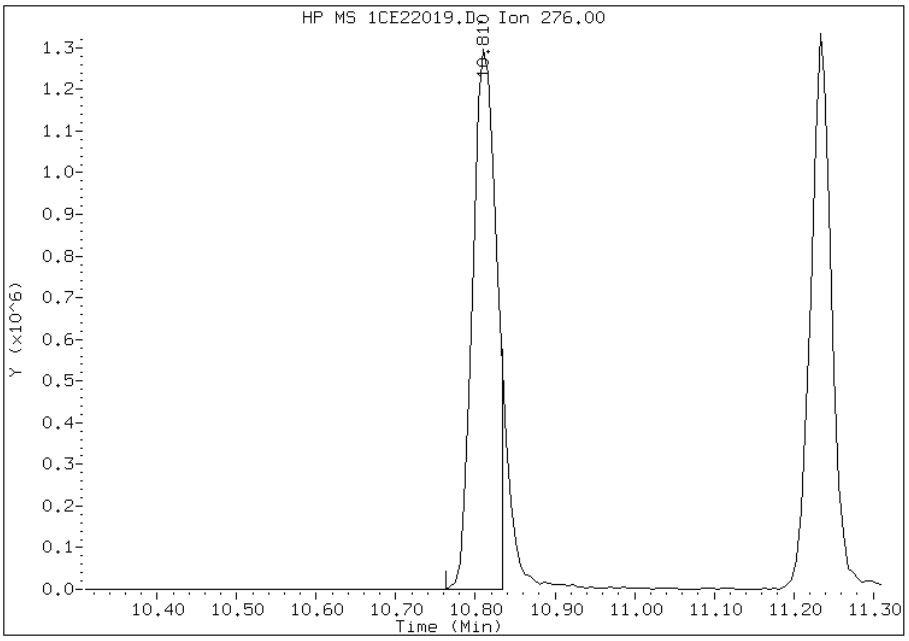
Manual Integration Results

RT: 10.81

Response: 2670728

Amount: 29

Conc: 29



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	2200854	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1541984	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2936983	40.0000	
$	14 o-Terphenyl	230	6.368	6.368	(1.041)	2489982	50.0000	54.4249(A)
*	18 Chrysene-d12	240	8.080	8.080	(1.000)	3735164	40.0000	
*	23 Perylene-d12	264	9.421	9.421	(1.000)	3666876	40.0000	
	2 Naphthalene	128	4.068	4.068	(1.003)	2829693	50.0000	50.0994(A)
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	1846051	50.0000	50.1042(A)
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	1753070	50.0000	49.9439
	5 Acenaphthylene	152	5.057	5.057	(0.983)	3262336	50.0000	50.0238(A)
	7 Acenaphthene	154	5.168	5.168	(1.005)	2023281	50.0000	50.6638(A)
	9 Fluorene	166	5.492	5.492	(1.067)	2683311	50.0000	50.7564(A)
	11 Phenanthrene	178	6.133	6.133	(1.003)	4422781	50.0000	50.9708(A)
	12 Anthracene	178	6.168	6.168	(1.009)	4441751	50.0000	50.4523(A)
	13 Carbazole	167	6.268	6.268	(1.025)	3814591	50.0000	57.1306(A)
	15 Fluoranthene	202	6.980	6.980	(1.141)	4926903	50.0000	50.4621(A)
	16 Pyrene	202	7.157	7.157	(0.886)	5350270	50.0000	53.0459(A)
	17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	5197458	50.0000	49.8822
	19 Chrysene	228	8.098	8.098	(1.002)	5304178	50.0000	51.1504(A)
	20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	5119876	50.0000	56.8286(A)
	21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	5598875	50.0000	55.6412(A)
	22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	5093564	50.0000	50.9688(A)
	24 Indeno(1,2,3-cd)pyrene	276	10.815	10.815	(1.148)	5226444	50.0000	51.2476(AM)
	25 Dibenzo(a,h)anthracene	278	10.839	10.839	(1.150)	4518350	50.0000	57.7307(A)
	26 Benzo(g,h,i)perylene	276	11.244	11.244	(1.194)	4818870	50.0000	56.5679(A)

QC Flag Legend

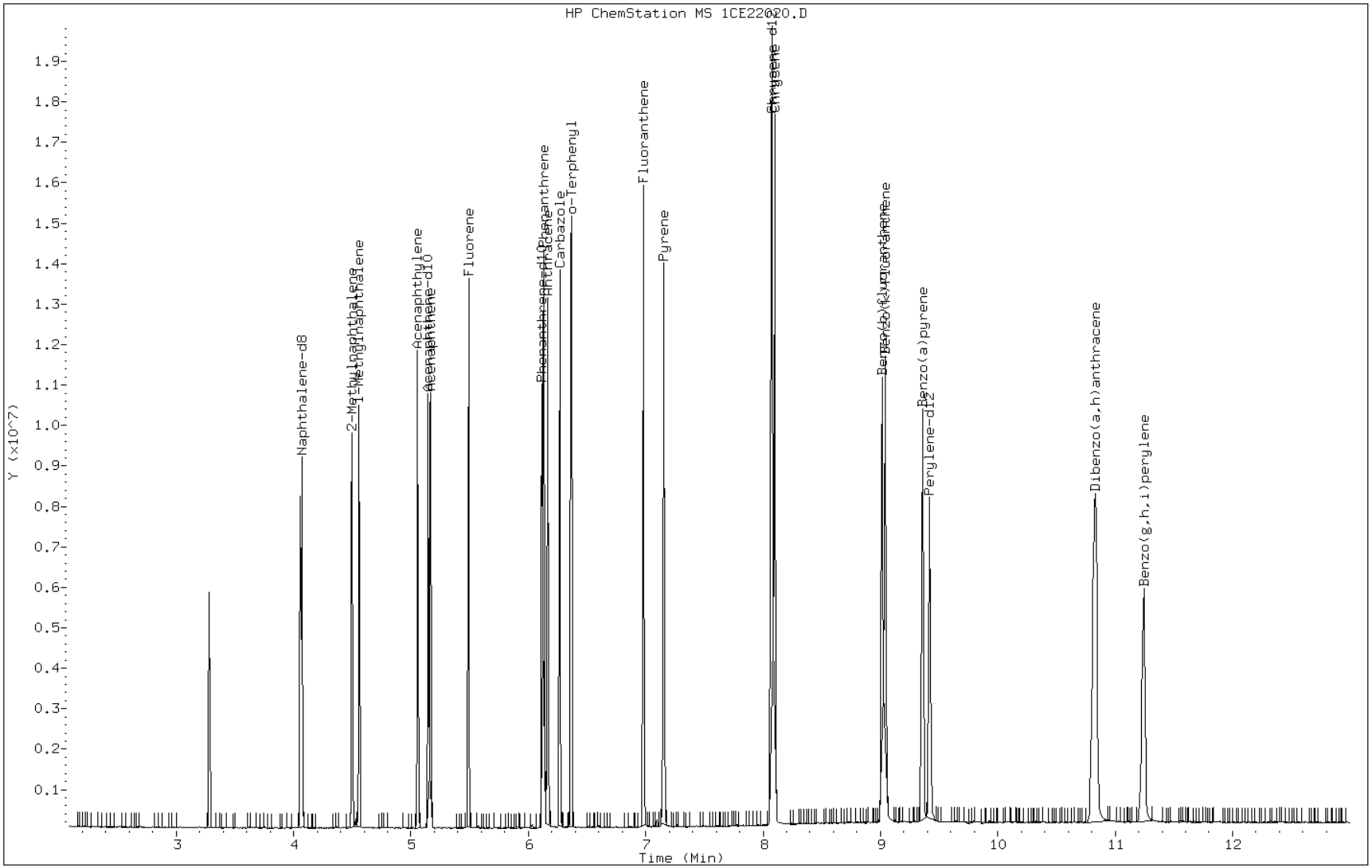
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CE22020.D

Date: 22-MAY-2013 18:05

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1CE22020.D
Inj. Date and Time: 22-MAY-2013 18:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

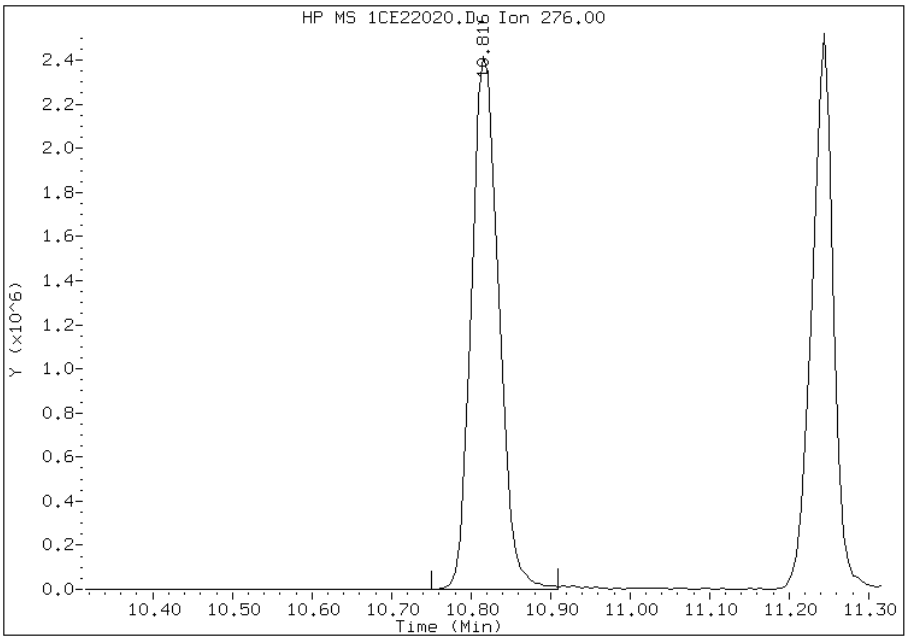
Processing Integration Results

RT: 10.82

Response: 5750303

Amount: 52

Conc: 52



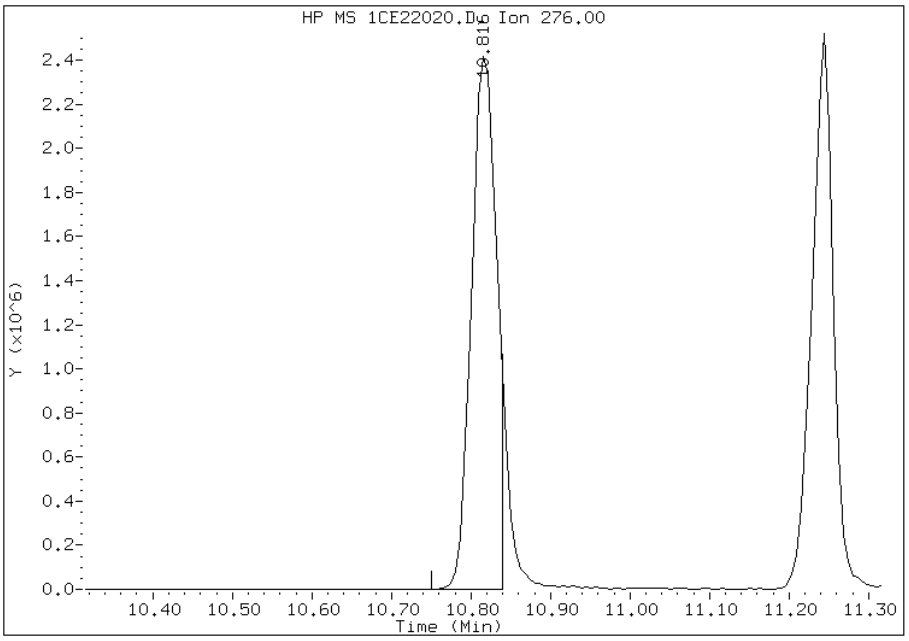
Manual Integration Results

RT: 10.82

Response: 5226444

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:09
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137830

SDG No.: 68090723-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0062 0.9726	0.9995 0.9719	0.9558	1.0008	0.9980	Ave		0.9864			0.0000	2.0		15.0			
2-Methylnaphthalene	0.5749 0.6384	0.6206 0.6316	0.6261	0.6587	0.6461	Ave		0.6281			0.0000	4.2		15.0			
1-Methylnaphthalene	0.6241 0.6428	0.6597 0.6342	0.6383	0.6735	0.6535	Ave		0.6466			0.0000	2.6		15.0			
1,1'-Biphenyl	1.2558 1.3810	1.3151 1.3708	1.3286	1.4157	1.3930	Ave		1.3514				4.1					
Acenaphthylene	1.3107 1.7873	1.5063 1.7667	1.6358	1.8042	1.7982	Ave		1.6585			0.0000	11.4		15.0			
Acenaphthene	1.0464 1.0507	1.0487 1.0375	1.0260	1.0949	1.0603	Ave		1.0521			0.0000	2.1		15.0			
Dibenzofuran	1.3261 1.4810	1.4516 1.4633	1.4312	1.5056	1.4959	Ave		1.4507				4.2					
Fluorene	1.0233 1.2432	1.1470 1.2316	1.1838	1.2557	1.2481	Ave		1.1904			0.0000	7.0		15.0			
Phenanthrene	1.0916 1.0740	1.0736 1.0745	1.0516	1.1171	1.1008	Ave		1.0833			0.0000	2.0		15.0			
Anthracene	0.9060 1.1005	0.9896 1.0935	1.0526	1.1103	1.1055	Ave		1.0511			0.0000	7.3		15.0			
Fluoranthene	0.9193 1.1786	1.0180 1.1788	1.1083	1.1809	1.1741	Ave		1.1083			0.0000	9.3		15.0			
Pyrene	1.0361 1.2269	1.1042 1.2137	1.1521	1.2414	1.2233	Ave		1.1711			0.0000	6.6		15.0			
Benzo[a]anthracene	1.5197 1.1551	1.1050 1.1845	1.0486	1.1333	1.1636	Ave		1.1871			0.0000	12.9		15.0			
Chrysene	1.2142 1.0365	1.0662 1.0434	1.0077	1.0774	1.0375	Ave		1.0690			0.0000	6.3		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137830

SDG No.: 68090723-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.7633 1.0884	0.8861 1.1593	0.9510	1.0666	1.0998	Ave		1.0021			0.0000	14.1		15.0			
Benzo[k]fluoranthene	0.8692 1.1506	0.9589 1.1556	1.0109	1.0979	1.1026	Ave		1.0494			0.0000	10.2		15.0			
Benzo[a]pyrene	0.5413 1.0390	0.7183 1.0772	0.8802	0.9909	1.0194	Lin2	0.0025	0.9921							0.9902		
Indeno[1,2,3-cd]pyrene	0.5529 1.0098	0.6923 1.1024	0.8483	0.9795	0.9683	None	0.0037	1.0397							0.9951		
Dibenz(a,h)anthracene	0.6360 0.9847	0.7785 1.0376	0.8706	0.9418	0.9751	Lin2	0.0018	0.9560							0.9948		
Benzo[g,h,i]perylene	0.7013 0.9827	0.8003 1.0289	0.8929	0.9688	0.9829	Ave		0.9083			0.0000	13.0		15.0			
o-Terphenyl	0.5334 0.6060	0.5610 0.6203	0.5678	0.6036	0.6100	Ave		0.5860			0.0000	5.5		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137830

SDG No.: 68090723-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	14052 2454439	67892 3854620	342402	771801	1601823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8029 1611089	42157 2505140	224268	507950	1036995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8716 1622169	44810 2515238	228660	519415	1048787	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	ANT	Ave	10365 1954075	52741 3029358	276490	620318	1271034	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10818 2528965	60413 3904072	340416	790555	1640830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8637 1486714	42059 2292684	213507	479776	967502	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	10945 2095529	58216 3233580	297831	659738	1364999	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8446 1759028	46002 2721626	246360	550212	1138861	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14705 2572622	71492 3974751	366377	818249	1690403	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12204 2636003	65898 4044900	366727	813240	1697570	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12384 2822979	67793 4360425	386131	864953	1802958	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13459 2878307	72384 4398475	400281	887682	1840728	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19741 2709801	72436 4292530	364317	810407	1750909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15772 2431700	69888 3781128	350103	770411	1561209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	10089 2543308	60091 4185749	340701	782118	1676574	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-90723-1 Analy Batch No.: 137830

SDG No.: 68090723-1

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	11489 2688538	65030 4172175	362152	805050	1680826	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	7155 2427727	48714 3889042	315324	726611	1554051	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	None	7308 2359651	46950 3980252	303899	718264	1476159	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin2	8406 2300940	52791 3746128	311908	690573	1486524	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	9269 2296193	54271 3714851	319890	710395	1498391	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7185 1451630	37357 2294445	197816	442134	936684	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23003.D
Lab Smp Id: IC1
Inj Date : 23-MAY-2013 13:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
* 1 Naphthalene-d8	136	6.283	6.283	(1.000)	2793016	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1650729	40.0000	
* 11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2694117	40.0000	
$ 15 o-Terphenyl	230	9.520	9.520	(1.034)	7185	0.20000	0.18
* 19 Chrysene-d12	240	11.571	11.571	(1.000)	2598008	40.0000	
* 24 Perylene-d12	264	13.480	13.480	(1.000)	2643475	40.0000	
2 Naphthalene	128	6.307	6.307	(1.004)	14052	0.20000	0.20
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	8029	0.20000	0.18
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	8716	0.20000	0.19
5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	10365	0.20000	0.32
6 Acenaphthylene	152	7.822	7.822	(0.984)	10818	0.20000	0.16
8 Acenaphthene	154	7.975	7.975	(1.003)	8637	0.20000	0.20
9 Dibenzofuran	168	8.128	8.128	(1.022)	10945	0.20000	0.18
10 Fluorene	166	8.416	8.416	(1.058)	8446	0.20000	0.17
12 Phenanthrene	178	9.227	9.227	(1.002)	14705	0.20000	0.20
13 Anthracene	178	9.268	9.268	(1.006)	12204	0.20000	0.17
16 Fluoranthene	202	10.208	10.208	(1.108)	12384	0.20000	0.16
17 Pyrene	202	10.396	10.396	(0.898)	13459	0.20000	0.18
18 Benzo(a)anthracene	228	11.559	11.559	(0.999)	19741	0.20000	0.26
20 Chrysene	228	11.594	11.594	(1.002)	15772	0.20000	0.23
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.957)	10089	0.20000	0.15
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.960)	11489	0.20000	0.16
23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	7155	0.20000	0.21
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.120)	7308	0.20000	0.25(H)
26 Dibenzo(a,h)anthracene	278	15.149	15.149	(1.124)	8406	0.20000	0.20(M)
27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.155)	9269	0.20000	0.15(MH)

QC Flag Legend

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

Data File: 1DE23003.D

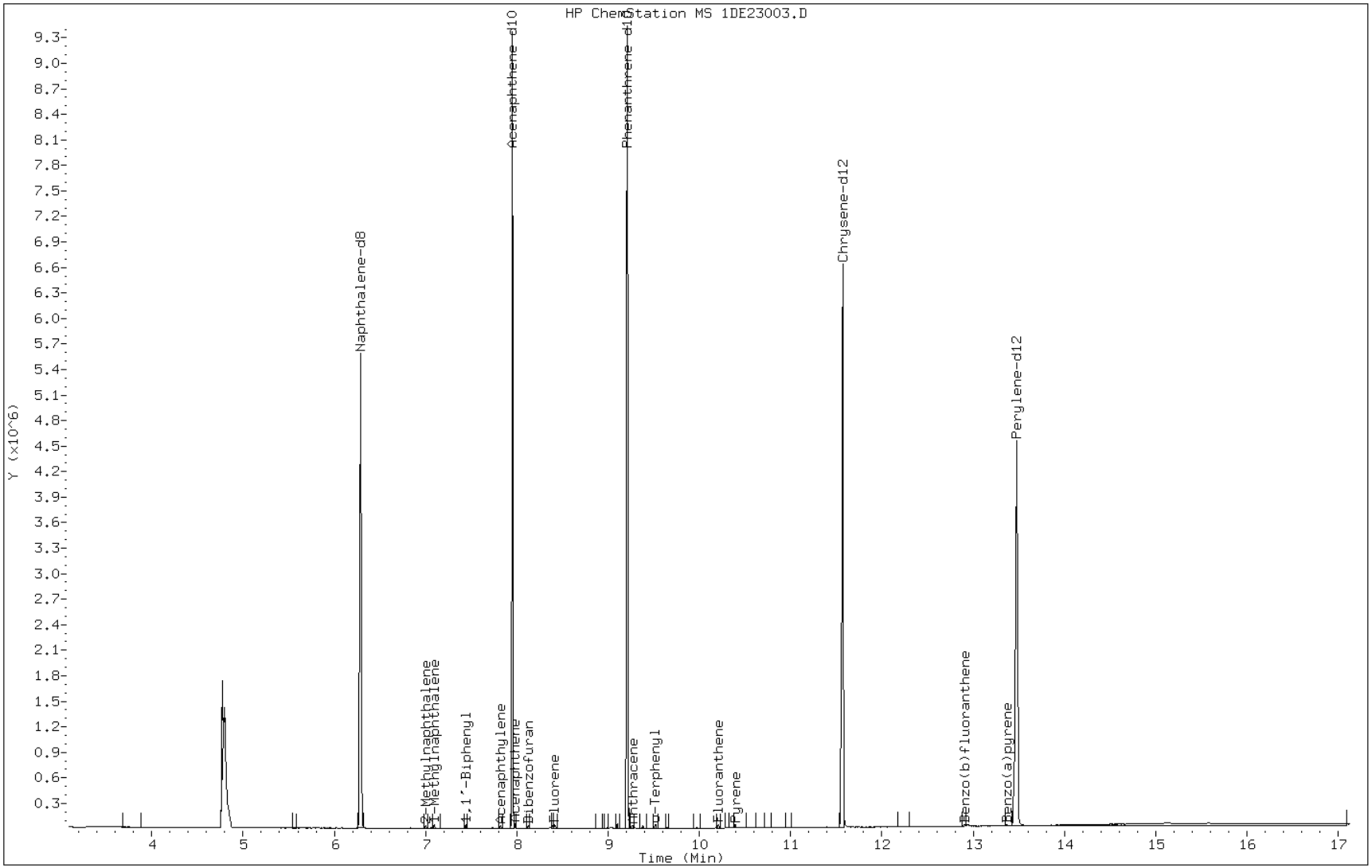
Date: 23-MAY-2013 13:03

Client ID:

Instrument: BSMSD.i

Sample Info: IC1

Operator: SCC



Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMSD.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/28/2013

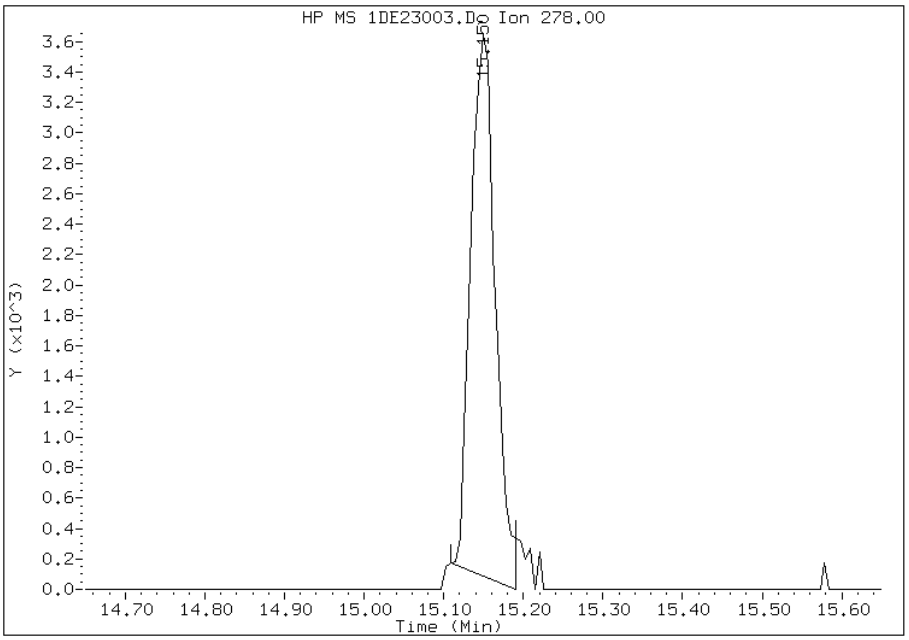
Processing Integration Results

RT: 15.15

Response: 7611

Amount: 0

Conc: 0



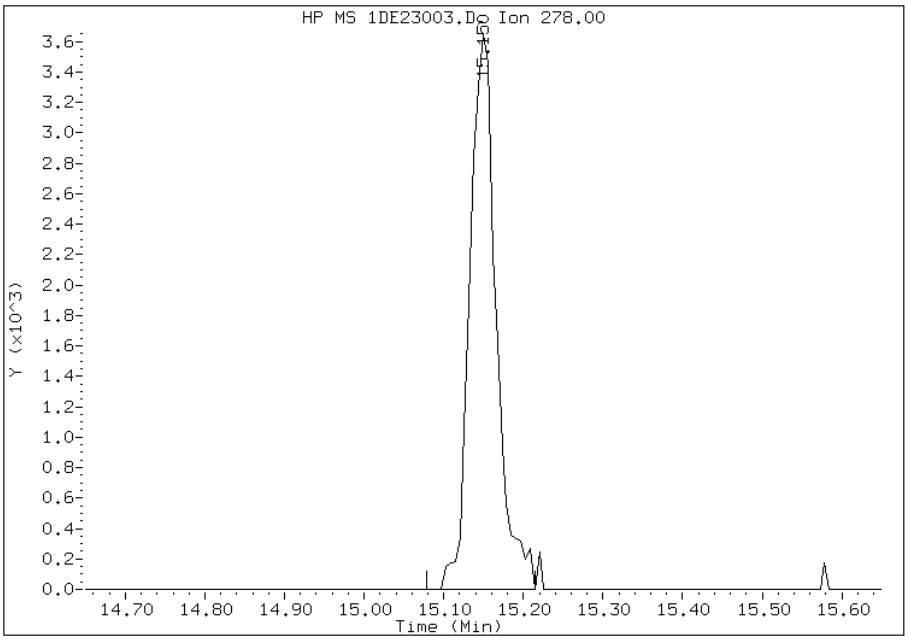
Manual Integration Results

RT: 15.15

Response: 8406

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 28-May-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMSD.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/28/2013

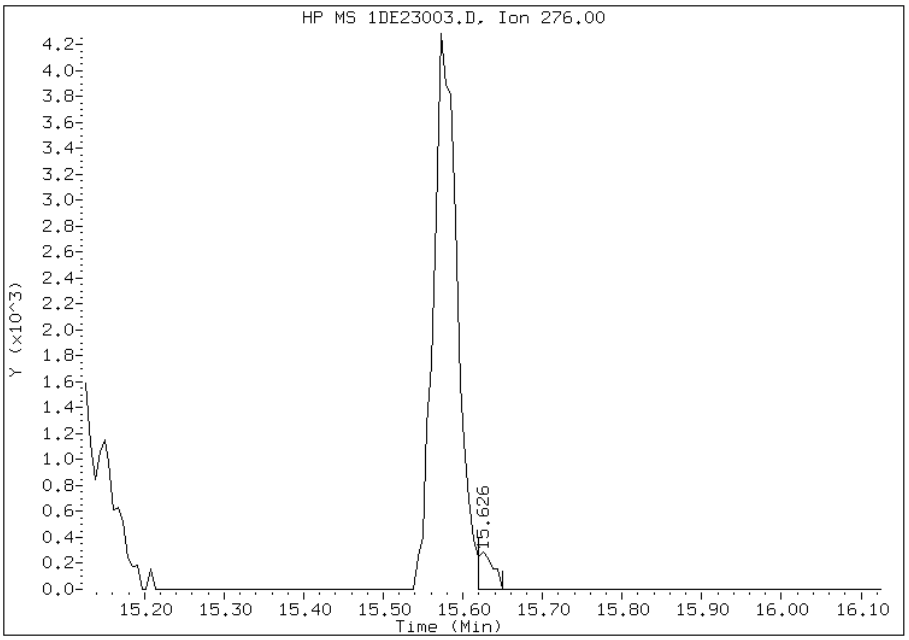
Processing Integration Results

RT: 15.63

Response: 387

Amount: 0

Conc: 0



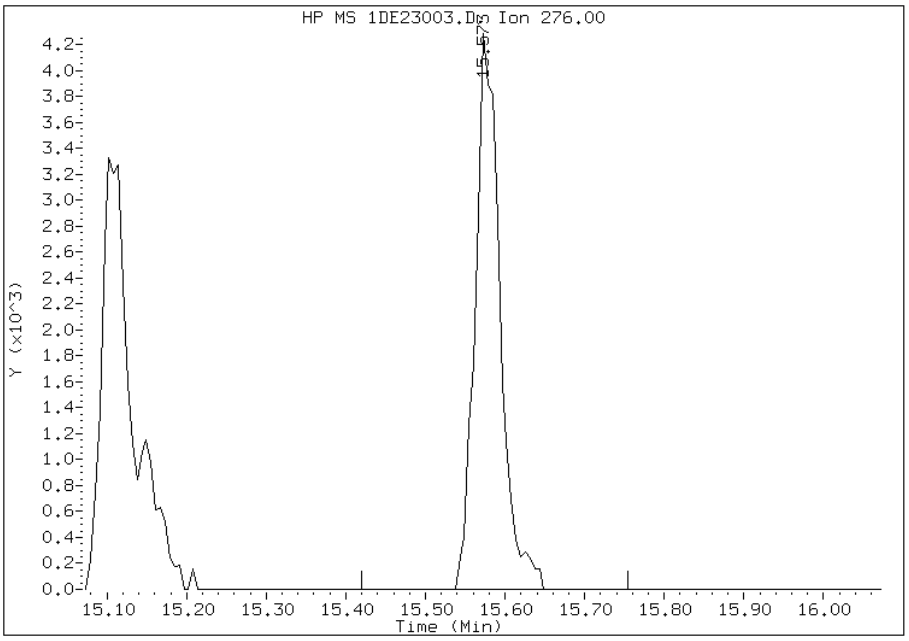
Manual Integration Results

RT: 15.57

Response: 9269

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 28-May-2013 11:37
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23004.D
Lab Smp Id: IC2
Inj Date : 23-MAY-2013 13:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:03 Cal File: 1DE23003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.283	6.283	(1.000)	2717054	40.0000	
*	7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1604224	40.0000	
*	11 Phenanthrene-d10	188	9.203	9.203	(1.000)	2663694	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	37357	1.00000	0.96
*	19 Chrysene-d12	240	11.565	11.565	(1.000)	2622056	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	2712615	40.0000	
	2 Naphthalene	128	6.301	6.301	(1.003)	67892	1.00000	1.0
	3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	42157	1.00000	0.99
	4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	44810	1.00000	1.0
	5 1,1'-Biphenyl	154	7.435	7.435	(0.935)	52741	1.00000	1.6
	6 Acenaphthylene	152	7.817	7.817	(0.983)	60413	1.00000	0.91
	8 Acenaphthene	154	7.975	7.975	(1.003)	42059	1.00000	1.00
	9 Dibenzofuran	168	8.122	8.122	(1.021)	58216	1.00000	1.0
	10 Fluorene	166	8.416	8.416	(1.058)	46002	1.00000	0.96
	12 Phenanthrene	178	9.221	9.221	(1.002)	71492	1.00000	0.99
	13 Anthracene	178	9.262	9.262	(1.006)	65898	1.00000	0.94
	16 Fluoranthene	202	10.202	10.202	(1.109)	67793	1.00000	0.92
	17 Pyrene	202	10.390	10.390	(0.898)	72384	1.00000	0.94
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	72436	1.00000	0.93
	20 Chrysene	228	11.589	11.589	(1.002)	69888	1.00000	1.00
	21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	60091	1.00000	0.88
	22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	65030	1.00000	0.91
	23 Benzo(a)pyrene	252	13.363	13.363	(0.992)	48714	1.00000	0.82
	25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.121)	46950	1.00000	0.81(H)
	26 Dibenzo(a,h)anthracene	278	15.138	15.138	(1.124)	52791	1.00000	0.89
	27 Benzo(g,h,i)perylene	276	15.567	15.567	(1.156)	54271	1.00000	0.88

QC Flag Legend

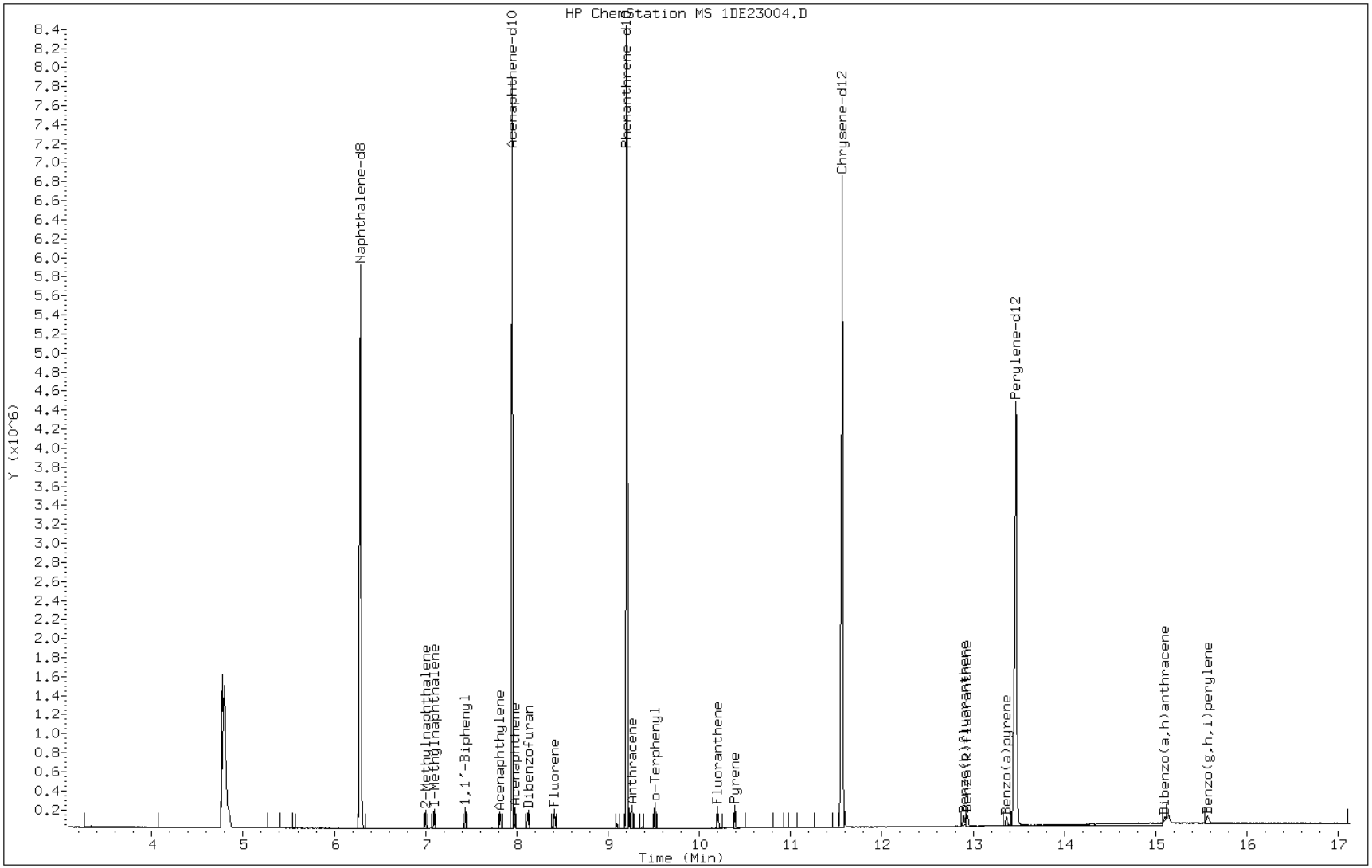
H - Operator selected an alternate compound hit.

Data File: 1DE23004.D

Date: 23-MAY-2013 13:26

Client ID: Instrument: BSMSD.i

Sample Info: IC2 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23005.D
Lab Smp Id: IC3
Inj Date : 23-MAY-2013 13:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:26 Cal File: 1DE23004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.280	6.280	(1.000)	2865774	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1664831	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000)	2787264	40.0000	
$	15 o-Terphenyl	230	9.512	9.512	(1.033)	197816	5.00000	4.8
*	19 Chrysene-d12	240	11.568	11.568	(1.000)	2779548	40.0000	
*	24 Perylene-d12	264	13.472	13.472	(1.000)	2866015	40.0000	
	2 Naphthalene	128	6.304	6.304	(1.004)	342402	5.00000	4.8
	3 2-Methylnaphthalene	142	6.997	6.997	(1.114)	224268	5.00000	5.0
	4 1-Methylnaphthalene	142	7.091	7.091	(1.129)	228660	5.00000	4.9
	5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	276490	5.00000	7.2
	6 Acenaphthylene	152	7.820	7.820	(0.984)	340416	5.00000	4.9
	8 Acenaphthene	154	7.973	7.973	(1.003)	213507	5.00000	4.9
	9 Dibenzofuran	168	8.119	8.119	(1.021)	297831	5.00000	4.9
	10 Fluorene	166	8.413	8.413	(1.058)	246360	5.00000	5.0
	12 Phenanthrene	178	9.224	9.224	(1.002)	366377	5.00000	4.8
	13 Anthracene	178	9.265	9.265	(1.006)	366727	5.00000	5.0
	16 Fluoranthene	202	10.205	10.205	(1.108)	386131	5.00000	5.0
	17 Pyrene	202	10.393	10.393	(0.898)	400281	5.00000	4.9
	18 Benzo(a)anthracene	228	11.551	11.551	(0.998)	364317	5.00000	4.4
	20 Chrysene	228	11.592	11.592	(1.002)	350103	5.00000	4.7
	21 Benzo(b)fluoranthene	252	12.902	12.902	(0.958)	340701	5.00000	4.7
	22 Benzo(k)fluoranthene	252	12.937	12.937	(0.960)	362152	5.00000	4.8
	23 Benzo(a)pyrene	252	13.366	13.366	(0.992)	315324	5.00000	4.5
	25 Indeno(1,2,3-cd)pyrene	276	15.105	15.105	(1.121)	303899	5.00000	4.2(H)
	26 Dibenzo(a,h)anthracene	278	15.146	15.146	(1.124)	311908	5.00000	4.6
	27 Benzo(g,h,i)perylene	276	15.575	15.575	(1.156)	319890	5.00000	4.9

QC Flag Legend

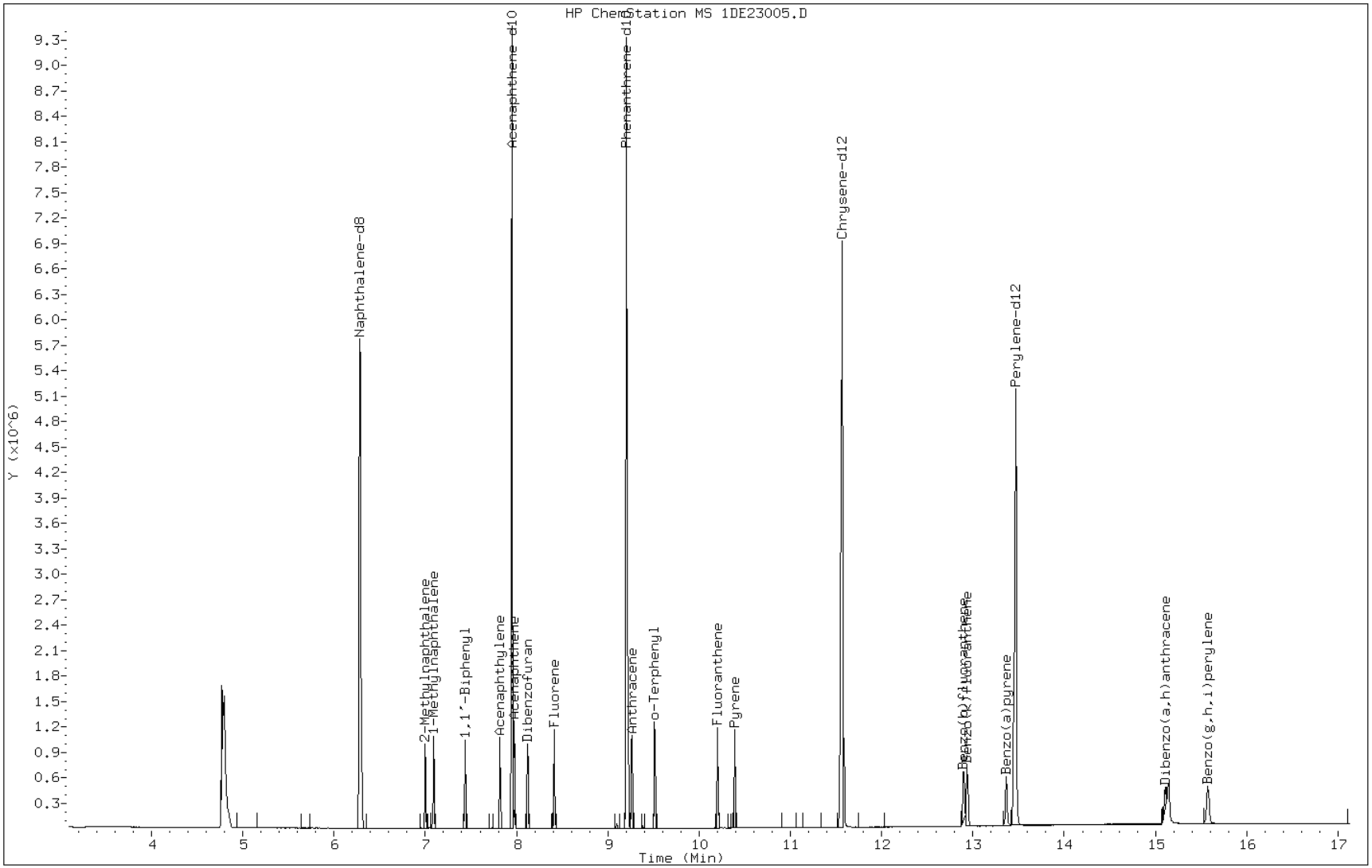
H - Operator selected an alternate compound hit.

Data File: 1DE23005.D

Date: 23-MAY-2013 13:48

Client ID: Instrument: BSMSD.i

Sample Info: IC3 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23006.D
Lab Smp Id: IC4
Inj Date : 23-MAY-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 13:48 Cal File: 1DE23005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

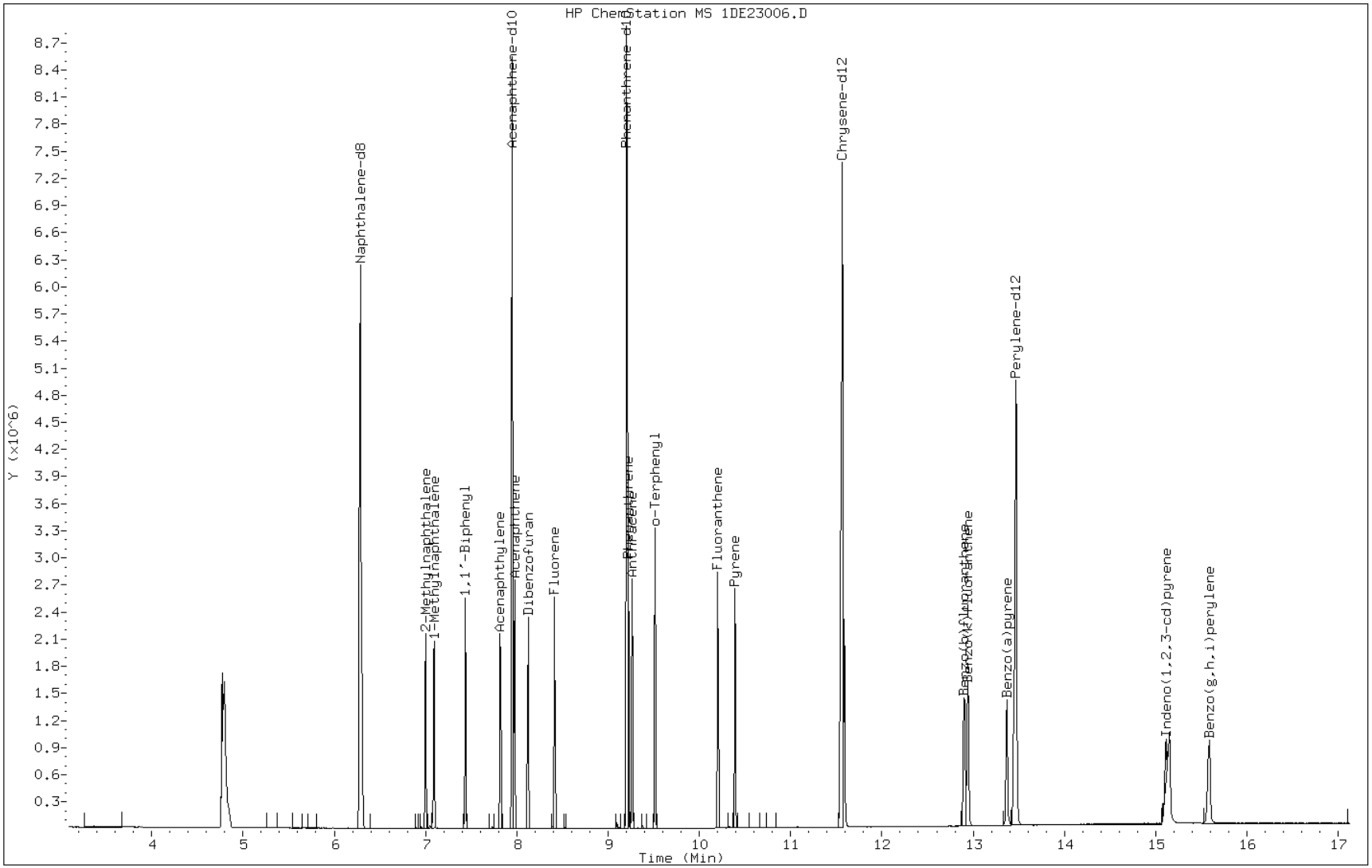
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.284	6.284	(1.000)	3084725	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	442134	10.0000	10
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	2860263	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	2933068	40.0000	
	2 Naphthalene	128	6.301	6.301	(1.003)	771801	10.0000	10
	3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	507950	10.0000	10
	4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	519415	10.0000	10
	5 1,1'-Biphenyl	154	7.435	7.435	(0.936)	620318	10.0000	14
	6 Acenaphthylene	152	7.817	7.817	(0.984)	790555	10.0000	11
	8 Acenaphthene	154	7.976	7.976	(1.004)	479776	10.0000	10
	9 Dibenzofuran	168	8.123	8.123	(1.022)	659738	10.0000	10
	10 Fluorene	166	8.416	8.416	(1.059)	550212	10.0000	10
	12 Phenanthrene	178	9.221	9.221	(1.002)	818249	10.0000	10
	13 Anthracene	178	9.263	9.263	(1.006)	813240	10.0000	10
	16 Fluoranthene	202	10.203	10.203	(1.109)	864953	10.0000	11
	17 Pyrene	202	10.391	10.391	(0.898)	887682	10.0000	11
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	810407	10.0000	9.5
	20 Chrysene	228	11.589	11.589	(1.002)	770411	10.0000	10
	21 Benzo(b)fluoranthene	252	12.905	12.905	(0.958)	782118	10.0000	11
	22 Benzo(k)fluoranthene	252	12.941	12.941	(0.961)	805050	10.0000	10
	23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	726611	10.0000	10
	25 Indeno(1,2,3-cd)pyrene	276	15.114	15.114	(1.122)	718264	10.0000	9.6
	26 Dibenzo(a,h)anthracene	278	15.150	15.150	(1.125)	690573	10.0000	9.9
	27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.157)	710395	10.0000	11

Data File: 1DE23006.D

Date: 23-MAY-2013 14:11

Client ID: Instrument: BSMSD.i

Sample Info: IC4 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23007.D
Lab Smp Id: ICIS
Inj Date : 23-MAY-2013 14:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:11 Cal File: 1DE23006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.284	6.284	(1.000)	3209942	40.0000	
*	7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
$	15 o-Terphenyl	230	9.515	9.515	(1.034)	936684	20.0000	21
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	3009447	40.0000	
*	24 Perylene-d12	264	13.476	13.476	(1.000)	3048824	40.0000	
	2 Naphthalene	128	6.302	6.302	(1.003)	1601823	20.0000	20
	3 2-Methylnaphthalene	142	7.001	7.001	(1.114)	1036995	20.0000	20
	4 1-Methylnaphthalene	142	7.095	7.095	(1.129)	1048787	20.0000	20
	5 1,1'-Biphenyl	154	7.436	7.436	(0.936)	1271034	20.0000	26
	6 Acenaphthylene	152	7.817	7.817	(0.984)	1640830	20.0000	22
	8 Acenaphthene	154	7.976	7.976	(1.004)	967502	20.0000	20
	9 Dibenzofuran	168	8.123	8.123	(1.022)	1364999	20.0000	21
	10 Fluorene	166	8.417	8.417	(1.059)	1138861	20.0000	21
	12 Phenanthrene	178	9.228	9.228	(1.003)	1690403	20.0000	20
	13 Anthracene	178	9.263	9.263	(1.006)	1697570	20.0000	21
	16 Fluoranthene	202	10.203	10.203	(1.109)	1802958	20.0000	21
	17 Pyrene	202	10.397	10.397	(0.899)	1840728	20.0000	21
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1750909	20.0000	20
	20 Chrysene	228	11.595	11.595	(1.003)	1561209	20.0000	19
	21 Benzo(b)fluoranthene	252	12.912	12.912	(0.958)	1676574	20.0000	22
	22 Benzo(k)fluoranthene	252	12.953	12.953	(0.961)	1680826	20.0000	21
	23 Benzo(a)pyrene	252	13.376	13.376	(0.993)	1554051	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.127	15.127	(1.123)	1476159	20.0000	19
	26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.125)	1486524	20.0000	20
	27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1498391	20.0000	22

Data File: 1DE23007.D

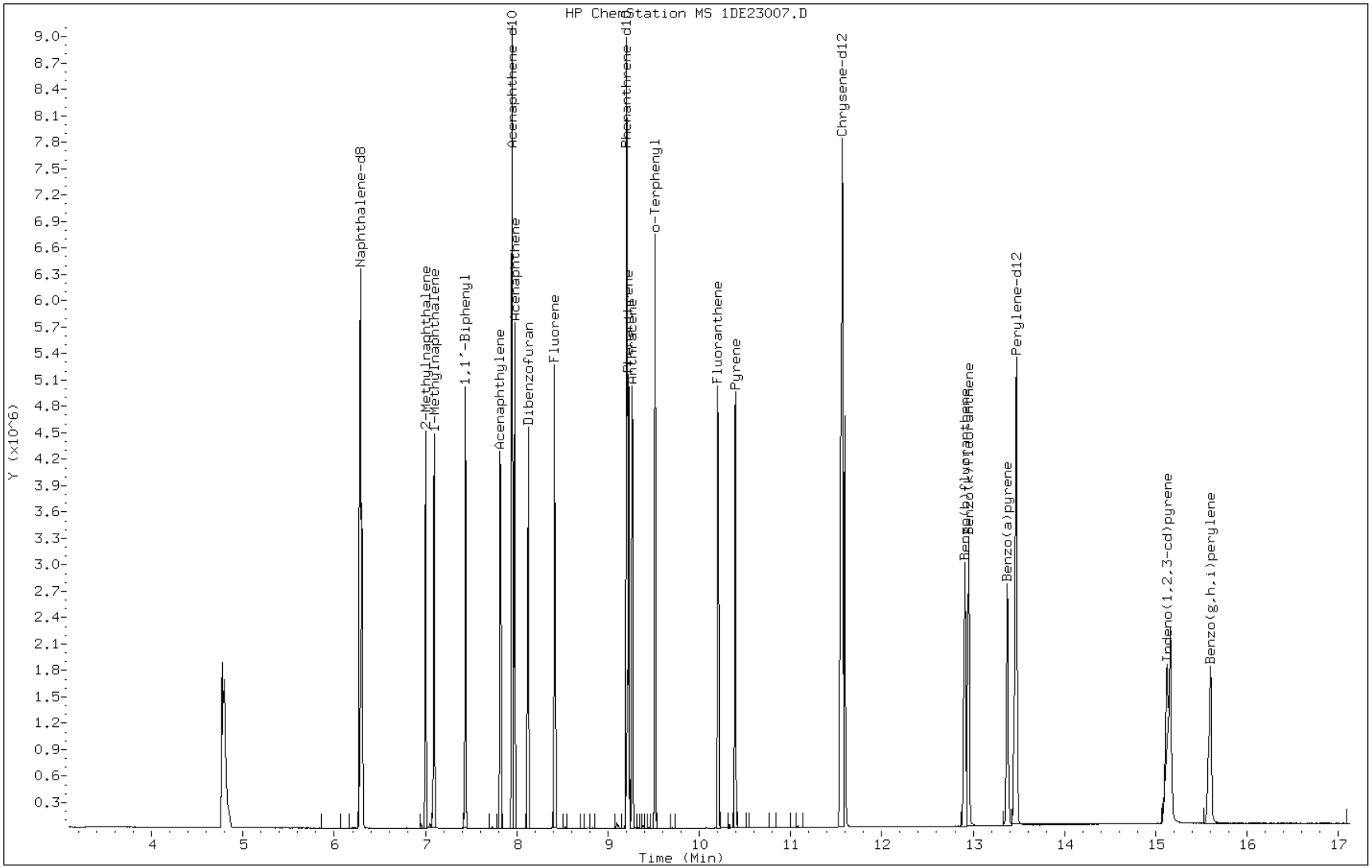
Date: 23-MAY-2013 14:33

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23008.D
Lab Smp Id: IC6
Inj Date : 23-MAY-2013 14:56
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:33 Cal File: 1DE23007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

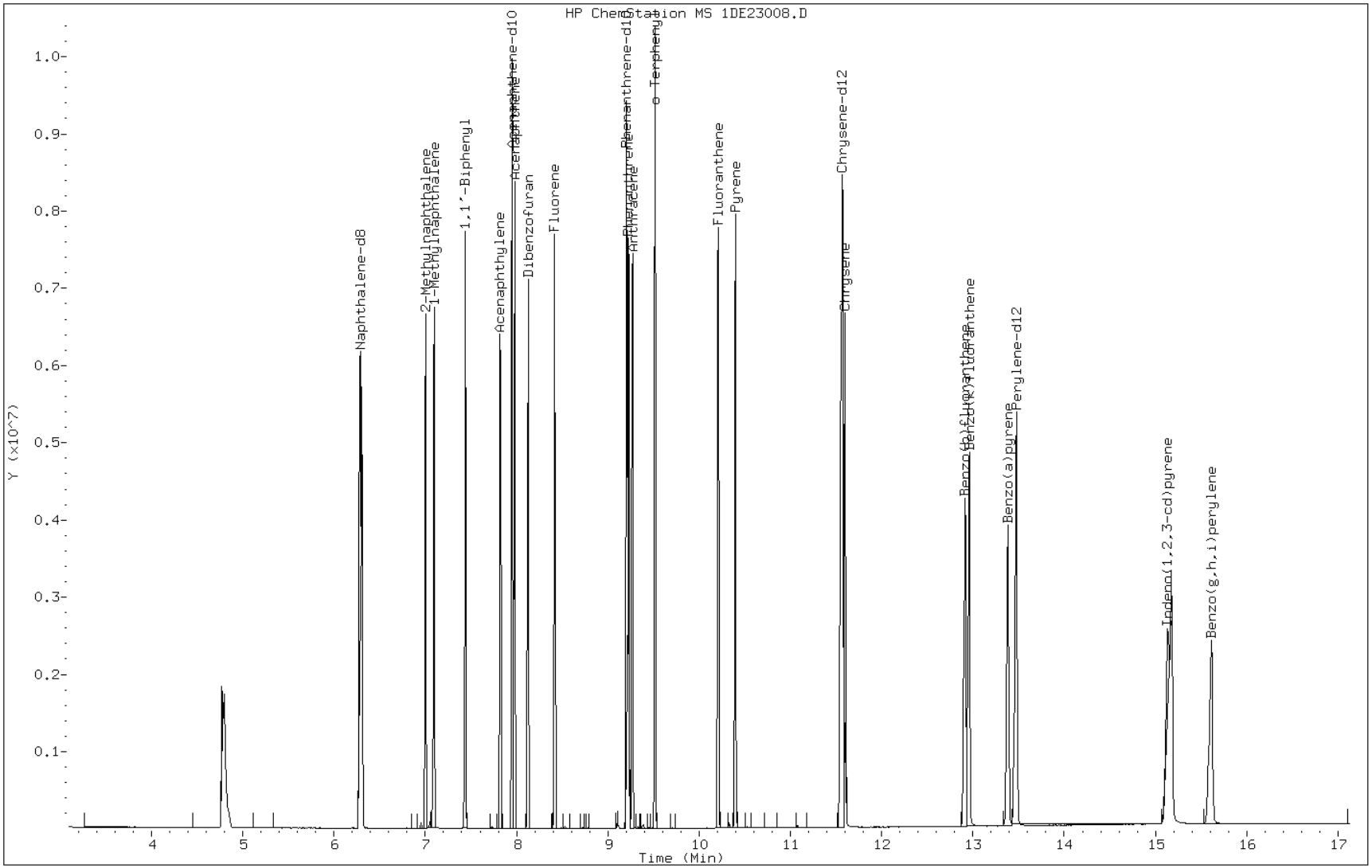
		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
*	11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
$	15 o-Terphenyl	230	9.518	9.518	(1.034)	1451630	30.0000	31
*	19 Chrysene-d12	240	11.574	11.574	(1.000)	3127987	40.0000	
*	24 Perylene-d12	264	13.478	13.478	(1.000)	3115576	40.0000	
	2 Naphthalene	128	6.304	6.304	(1.003)	2454439	30.0000	30
	3 2-Methylnaphthalene	142	7.003	7.003	(1.114)	1611089	30.0000	30
	4 1-Methylnaphthalene	142	7.097	7.097	(1.129)	1622169	30.0000	30
	5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	1954075	30.0000	35
	6 Acenaphthylene	152	7.820	7.820	(0.984)	2528965	30.0000	32
	8 Acenaphthene	154	7.978	7.978	(1.004)	1486714	30.0000	30
	9 Dibenzofuran	168	8.125	8.125	(1.022)	2095529	30.0000	31
	10 Fluorene	166	8.419	8.419	(1.059)	1759028	30.0000	31
	12 Phenanthrene	178	9.230	9.230	(1.003)	2572622	30.0000	30
	13 Anthracene	178	9.271	9.271	(1.007)	2636003	30.0000	31
	16 Fluoranthene	202	10.211	10.211	(1.109)	2822979	30.0000	32
	17 Pyrene	202	10.399	10.399	(0.898)	2878307	30.0000	31
	18 Benzo(a)anthracene	228	11.557	11.557	(0.998)	2709801	30.0000	29
	20 Chrysene	228	11.598	11.598	(1.002)	2431700	30.0000	29
	21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958)	2543308	30.0000	32
	22 Benzo(k)fluoranthene	252	12.961	12.961	(0.962)	2688538	30.0000	33
	23 Benzo(a)pyrene	252	13.384	13.384	(0.993)	2427727	30.0000	32
	25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123)	2359651	30.0000	29
	26 Dibenzo(a,h)anthracene	278	15.176	15.176	(1.126)	2300940	30.0000	31
	27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159)	2296193	30.0000	32

Data File: 1DE23008.D

Date: 23-MAY-2013 14:56

Client ID: Instrument: BSMSD.i

Sample Info: IC6 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23009.D
Lab Smp Id: IC7
Inj Date : 23-MAY-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 14:56 Cal File: 1DE23008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.283	6.283	(1.000)	3172868	40.0000	
*	7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1767883	40.0000	
*	11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2959275	40.0000	
$	15 o-Terphenyl	230	9.521	9.521	(1.034)	2294445	50.0000	53(A)
*	19 Chrysene-d12	240	11.577	11.577	(1.000)	2899179	40.0000	
*	24 Perylene-d12	264	13.481	13.481	(1.000)	2888367	40.0000	
	2 Naphthalene	128	6.307	6.307	(1.004)	3854620	50.0000	49
	3 2-Methylnaphthalene	142	7.006	7.006	(1.115)	2505140	50.0000	50(A)
	4 1-Methylnaphthalene	142	7.100	7.100	(1.130)	2515238	50.0000	49
	5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	3029358	50.0000	54(A)
	6 Acenaphthylene	152	7.823	7.823	(0.984)	3904072	50.0000	53(A)
	8 Acenaphthene	154	7.981	7.981	(1.004)	2292684	50.0000	49
	9 Dibenzofuran	168	8.128	8.128	(1.022)	3233580	50.0000	50(A)
	10 Fluorene	166	8.422	8.422	(1.059)	2721626	50.0000	52(A)
	12 Phenanthrene	178	9.227	9.227	(1.002)	3974751	50.0000	50
	13 Anthracene	178	9.268	9.268	(1.006)	4044900	50.0000	52(A)
	16 Fluoranthene	202	10.214	10.214	(1.109)	4360425	50.0000	53(A)
	17 Pyrene	202	10.402	10.402	(0.899)	4398475	50.0000	52(A)
	18 Benzo(a)anthracene	228	11.559	11.559	(0.998)	4292530	50.0000	50
	20 Chrysene	228	11.606	11.606	(1.003)	3781128	50.0000	49
	21 Benzo(b)fluoranthene	252	12.923	12.923	(0.959)	4185749	50.0000	58(A)
	22 Benzo(k)fluoranthene	252	12.970	12.970	(0.962)	4172175	50.0000	55(A)
	23 Benzo(a)pyrene	252	13.393	13.393	(0.993)	3889042	50.0000	54(A)
	25 Indeno(1,2,3-cd)pyrene	276	15.149	15.149	(1.124)	3980252	50.0000	53(A)
	26 Dibenzo(a,h)anthracene	278	15.196	15.196	(1.127)	3746128	50.0000	54(A)
	27 Benzo(g,h,i)perylene	276	15.637	15.637	(1.160)	3714851	50.0000	57(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1DE23009.D

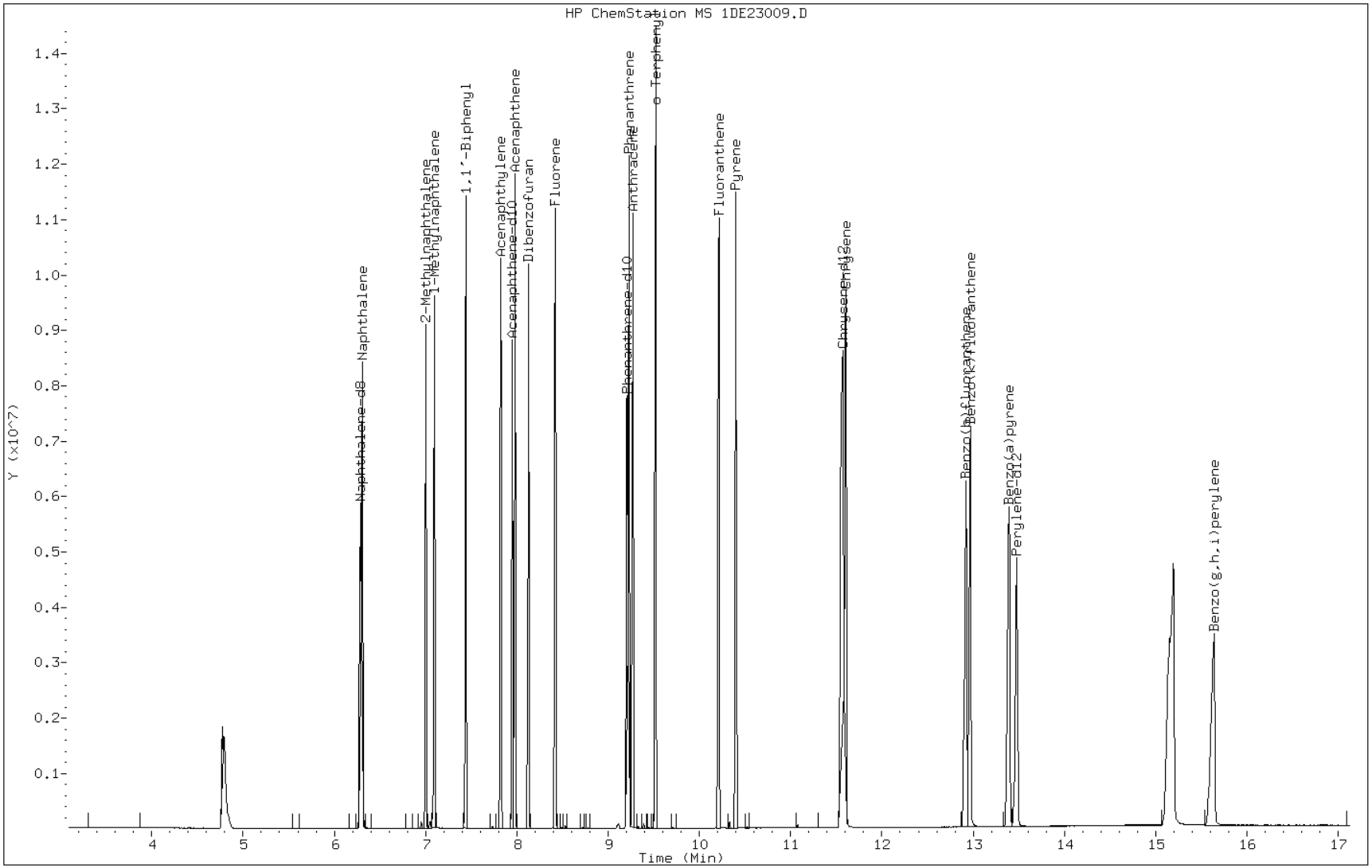
Date: 23-MAY-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: IC7

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Lab Sample ID: ICV 660-137704/22 Calibration Date: 05/22/2013 18:24

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CE22021.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9301	0.0000	16500	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6261	0.6170	0.0000	19700	20000	-1.5	35.0
1-Methylnaphthalene	Ave	0.6160	0.5991	0.0000	19400	20000	-2.7	35.0
Acenaphthylene	Ave	1.533	1.564	0.0000	20400	20000	2.0	35.0
Acenaphthene	Ave	0.9616	1.032	0.0000	21500	20000	7.3	35.0
Fluorene	Ave	1.227	1.251	0.0000	20400	20000	2.0	35.0
Phenanthrene	Ave	1.182	1.066	0.0000	18000	20000	-9.8	35.0
Anthracene	Ave	1.095	1.062	0.0000	19400	20000	-3.0	35.0
Carbazole	None		0.9704	0.0000	19100	20000	-4.5	35.0
Fluoranthene	Ave	1.208	1.218	0.0000	20200	20000	0.8	35.0
Pyrene	Ave	1.080	1.007	0.0000	18600	20000	-6.8	35.0
Benzo[a]anthracene	Ave	1.103	1.086	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.111	0.9873	0.0000	17800	20000	-11.1	35.0
Benzo[b]fluoranthene	Ave	0.9828	1.049	0.0000	21400	20000	6.8	35.0
Benzo[k]fluoranthene	Ave	1.098	1.039	0.0000	18900	20000	-5.4	35.0
Benzo[a]pyrene	Lin2	0.9064	0.8617	0.0000	17200	20000	-13.8	35.0
Indeno[1,2,3-cd]pyrene	None		0.8942	0.0000	16900	20000	-15.6	35.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9488	0.0000	22200	20000	11.1	35.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9372	0.0000	20200	20000	0.9	35.0
o-Terphenyl	Ave	0.6231	0.5760	0.0000	18500	20000	-7.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22021.D
Lab Smp Id: ICV-1448440
Inj Date : 22-MAY-2013 18:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m
Meth Date : 23-May-2013 10:16 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 21 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	4.057	4.057	(1.000)	3002271	40.0000	
*	6 Acenaphthene-d10	164	5.145	5.145	(1.000)	2105599	40.0000	
*	10 Phenanthrene-d10	188	6.115	6.116	(1.000)	3933786	40.0000	
$	14 o-Terphenyl	230	6.368	6.369	(1.041)	1132912	18.4880	18.4879
*	18 Chrysene-d12	240	8.080	8.080	(1.000)	4897113	40.0000	
*	23 Perylene-d12	264	9.421	9.422	(1.000)	5001508	40.0000	
	2 Naphthalene	128	4.068	4.069	(1.003)	1396179	16.4792	16.4791
	3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	926205	19.7091	19.7091
	4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	899280	19.4499	19.4499
	5 Acenaphthylene	152	5.057	5.057	(0.983)	1647037	20.4044	20.4044
	7 Acenaphthene	154	5.168	5.169	(1.005)	1085991	21.4542	21.4542
	9 Fluorene	166	5.492	5.492	(1.067)	1317395	20.3970	20.3969
	11 Phenanthrene	178	6.133	6.134	(1.003)	2097305	18.0459	18.0458
	12 Anthracene	178	6.162	6.169	(1.008)	2089618	19.4074	19.4074
	13 Carbazole	167	6.268	6.269	(1.025)	1908718	19.0953	19.0952
	15 Fluoranthene	202	6.980	6.981	(1.141)	2395060	20.1616	20.1615
	16 Pyrene	202	7.151	7.157	(0.885)	2466023	18.6485	18.6484

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	8.068	8.069	(0.999)	2658526	19.6876	19.6876
19 Chrysene	228	8.098	8.098	(1.002)	2417569	17.7820	17.7819
20 Benzo(b)fluoranthene	252	9.009	9.016	(0.956)	2624437	21.3569	21.3569
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2597310	18.9241	18.9240
22 Benzo(a)pyrene	252	9.356	9.357	(0.993)	2154856	17.2473	17.2473
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.816	(1.147)	2236055	16.8743	16.8743(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.839	(1.149)	2372617	22.2254	22.2254
26 Benzo(g,h,i)perylene	276	11.233	11.245	(1.192)	2343662	20.1705	20.1704

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22021.D

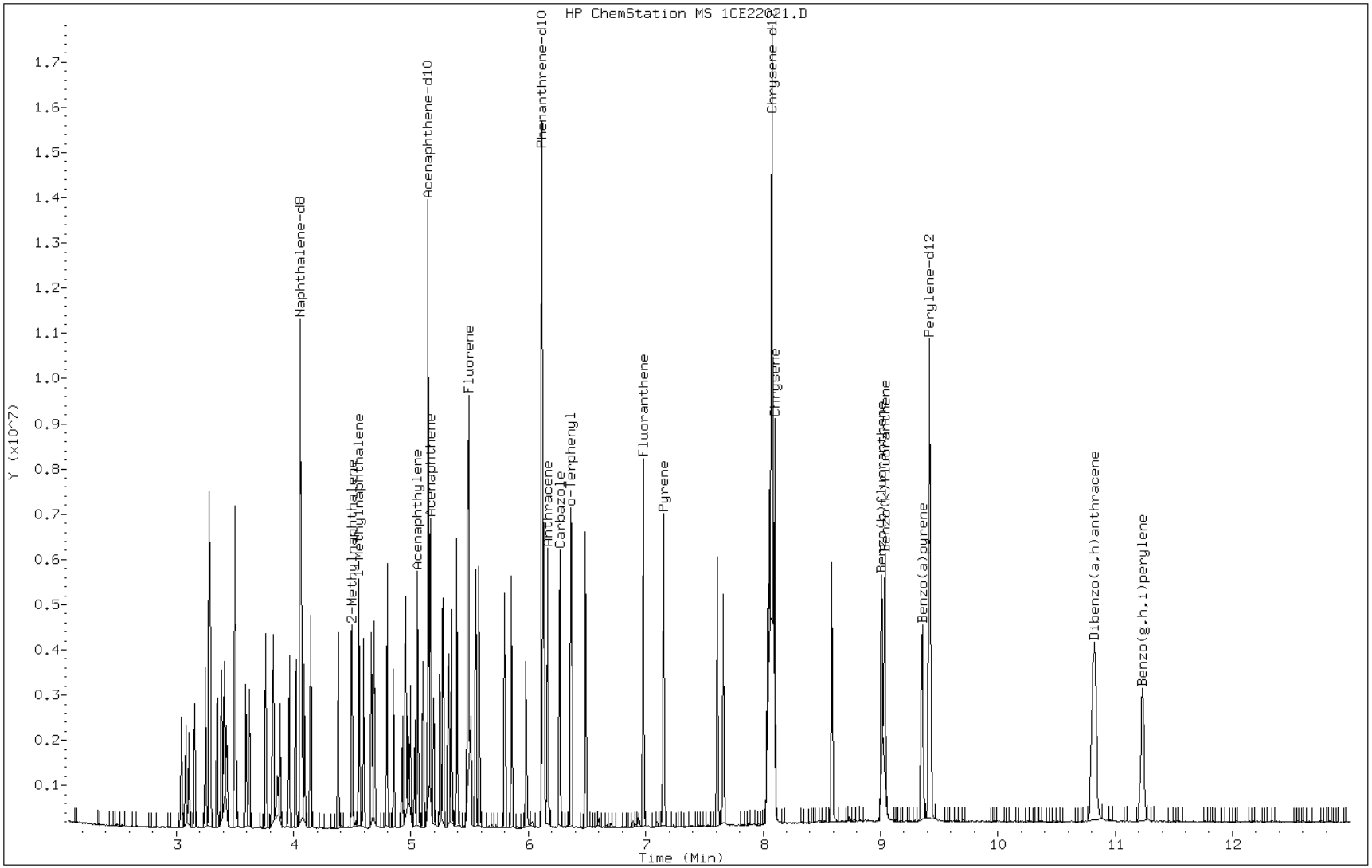
Date: 22-MAY-2013 18:24

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CE22021.D
Inj. Date and Time: 22-MAY-2013 18:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

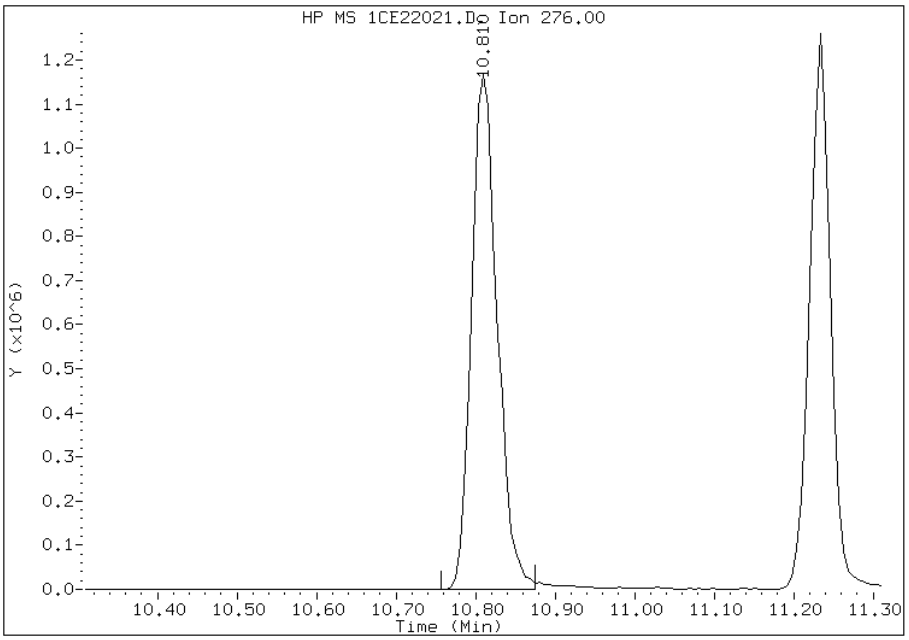
Processing Integration Results

RT: 10.81

Response: 2607256

Amount: 20

Conc: 20



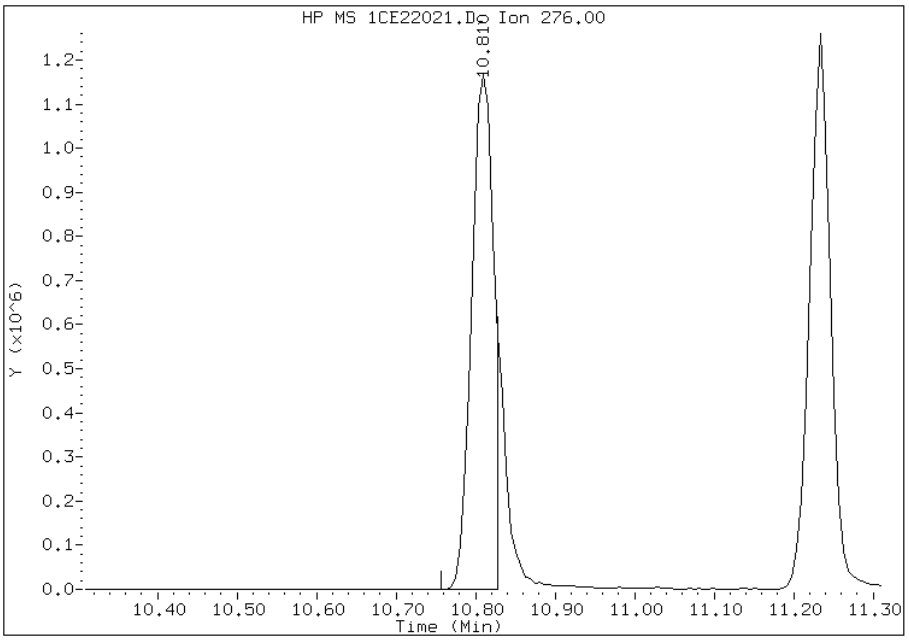
Manual Integration Results

RT: 10.81

Response: 2236055

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 23-May-2013 10:17
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Lab Sample ID: CCVIS 660-138098/3 Calibration Date: 06/04/2013 10:50

Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/22/2013 18:05

Lab File ID: 1CF04003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9705	0.0000	17200	20000	-0.1	20.0
2-Methylnaphthalene	Ave	0.6261	0.6625	0.0000	21200	20000	5.8	20.0
1-Methylnaphthalene	Ave	0.6160	0.6096	0.0000	19800	20000	-1.0	20.0
Acenaphthylene	Ave	1.533	1.658	0.0000	21600	20000	8.2	20.0
Acenaphthene	Ave	0.9616	1.013	0.0000	21100	20000	5.4	20.0
Fluorene	Ave	1.227	1.369	0.0000	22300	20000	11.6	20.0
Phenanthrene	Ave	1.182	1.139	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.095	1.151	0.0000	21000	20000	5.1	20.0
Carbazole	None		0.999	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.208	1.300	0.0000	21500	20000	7.7	20.0
Pyrene	Ave	1.080	1.088	0.0000	20100	20000	0.7	20.0
Benzo[a]anthracene	Ave	1.103	1.110	0.0000	20100	20000	0.6	20.0
Chrysene	Ave	1.111	1.114	0.0000	20100	20000	0.3	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.109	0.0000	22600	20000	12.8	20.0
Benzo[k]fluoranthene	Ave	1.098	1.110	0.0000	20200	20000	1.1	20.0
Benzo[a]pyrene	Lin2	0.9064	1.053	0.0000	21100	20000	5.3	20.0
Indeno[1,2,3-cd]pyrene	None		1.067	0.0000	20100	20000	0.5	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9387	0.0000	22000	20000	9.9	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9640	0.0000	20700	20000	3.7	20.0
o-Terphenyl	Ave	0.6231	0.6657	0.0000	21400	20000	6.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 04-JUN-2013 10:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	3174307	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	2209321	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	4430348	40.0000	(H)
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	1474592	20.0000	21.3667(H)
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	5836553	40.0000	
*	23 Perylene-d12	264	9.409	9.409	(1.000)	5791367	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	1540349	20.0000	17.1955
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	1051406	20.0000	21.1607
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	967473	20.0000	19.7907
	5 Acenaphthylene	152	5.045	5.045	(0.983)	1831974	20.0000	21.6300
	7 Acenaphthene	154	5.151	5.151	(1.003)	1119313	20.0000	21.0743
	9 Fluorene	166	5.480	5.480	(1.068)	1512281	20.0000	22.3151
	11 Phenanthrene	178	6.121	6.121	(1.003)	2524084	20.0000	19.2838(H)
	12 Anthracene	178	6.157	6.157	(1.009)	2548864	20.0000	21.0193(H)
	13 Carbazole	167	6.257	6.257	(1.025)	2213469	20.0000	19.6587
	15 Fluoranthene	202	6.968	6.968	(1.142)	2880724	20.0000	21.5319(H)
	16 Pyrene	202	7.145	7.145	(0.886)	3174373	20.0000	20.1413
	17 Benzo(a)anthracene	228	8.062	8.062	(0.999)	3238158	20.0000	20.1202
	19 Chrysene	228	8.092	8.092	(1.003)	3251977	20.0000	20.0692
	20 Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	3211227	20.0000	22.5680
	21 Benzo(k)fluoranthene	252	9.027	9.027	(0.959)	3213559	20.0000	20.2207
	22 Benzo(a)pyrene	252	9.345	9.345	(0.993)	3049476	20.0000	21.0565
	24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	3088449	20.0000	20.0976(M)
	25 Dibenzo(a,h)anthracene	278	10.815	10.815	(1.149)	2718124	20.0000	21.9893
	26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	2791548	20.0000	20.7484

QC Flag Legend

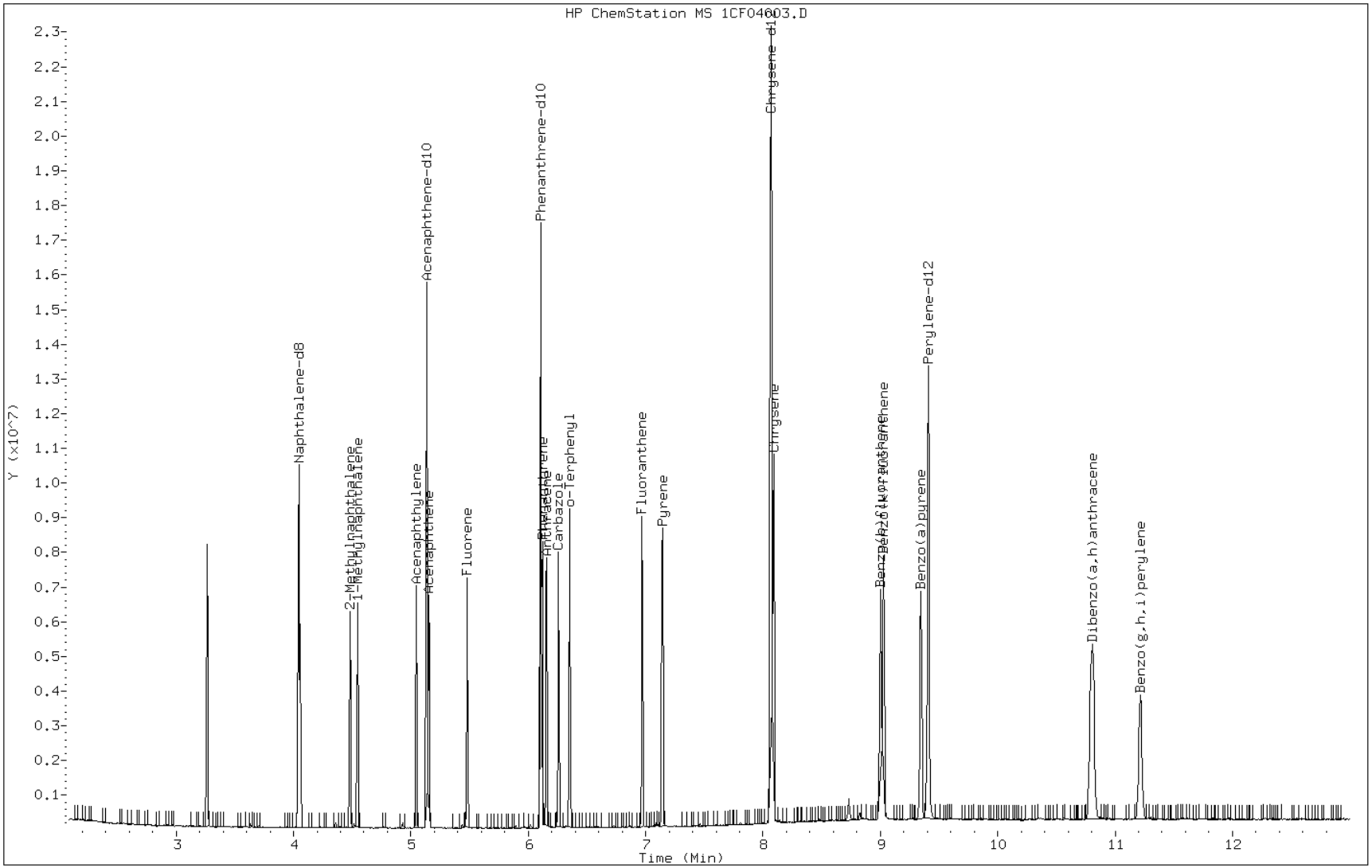
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CF04003.D

Date: 04-JUN-2013 10:50

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CF04003.D
Inj. Date and Time: 04-JUN-2013 10:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

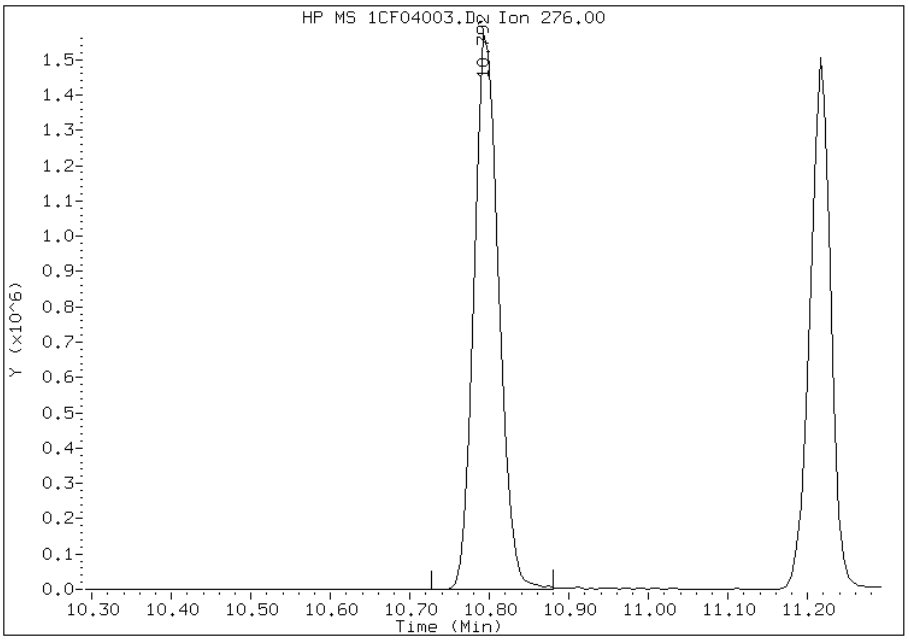
Processing Integration Results

RT: 10.79

Response: 3383362

Amount: 22

Conc: 22



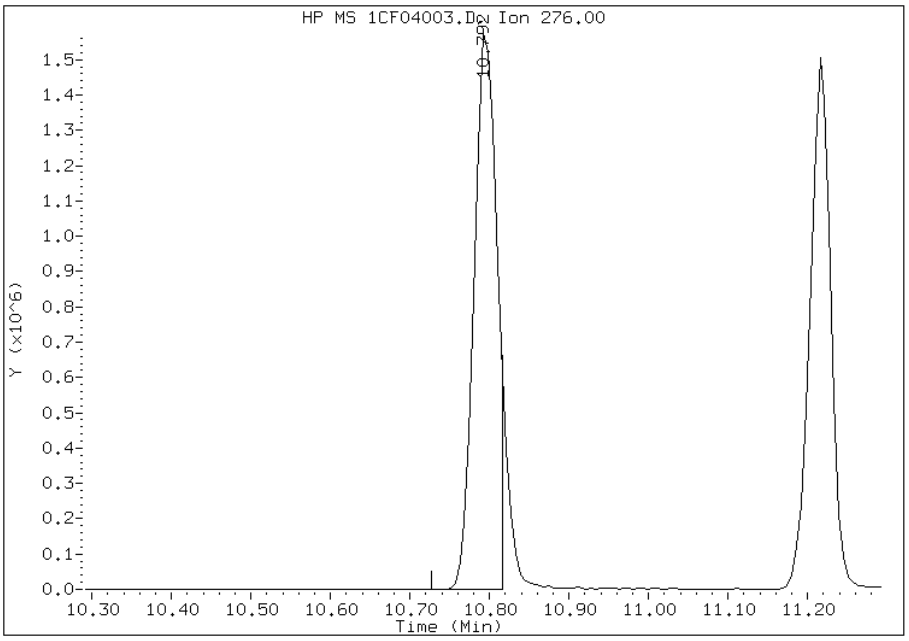
Manual Integration Results

RT: 10.79

Response: 3088449

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 11:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Lab Sample ID: ICV 660-137830/10 Calibration Date: 05/23/2013 15:41

Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 15:19

Lab File ID: 1DE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.062	0.0000	21500	20000	7.7	35.0
2-Methylnaphthalene	Ave	0.6281	0.7030	0.0000	22400	20000	11.9	35.0
1-Methylnaphthalene	Ave	0.6466	0.6720	0.0000	20800	20000	3.9	35.0
Acenaphthylene	Ave	1.658	1.929	0.0000	23300	20000	16.3	35.0
Acenaphthene	Ave	1.052	1.163	0.0000	22100	20000	10.6	35.0
Dibenzofuran	Ave	1.451	1.520		21000	20000	4.8	
Fluorene	Ave	1.190	1.367	0.0000	23000	20000	14.8	35.0
Phenanthrene	Ave	1.083	1.170	0.0000	21600	20000	8.0	35.0
Anthracene	Ave	1.051	1.180	0.0000	22500	20000	12.3	35.0
Fluoranthene	Ave	1.108	1.253	0.0000	22600	20000	13.0	35.0
Pyrene	Ave	1.171	1.309	0.0000	22400	20000	11.8	35.0
Benzo[a]anthracene	Ave	1.187	1.227	0.0000	20700	20000	3.4	35.0
Chrysene	Ave	1.069	1.150	0.0000	21500	20000	7.6	35.0
Benzo[b]fluoranthene	Ave	1.002	1.129	0.0000	22500	20000	12.7	35.0
Benzo[k]fluoranthene	Ave	1.049	1.202	0.0000	22900	20000	14.5	35.0
Benzo[a]pyrene	Lin2	0.8952	1.064	0.0000	21500	20000	7.7	35.0
Indeno[1,2,3-cd]pyrene	None		1.009	0.0000	19600	20000	-2.2	35.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.023	0.0000	21500	20000	7.4	35.0
Benzo[g,h,i]perylene	Ave	0.9083	1.031	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5860	0.6262	0.0000	21400	20000	6.9	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23010.D
Lab Smp Id: ICV-1558374
Inj Date : 23-MAY-2013 15:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1558374
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Naphthalene-d8	136	6.281	6.283	(1.000)	3254661	40.0000	
*	7 Acenaphthene-d10	164	7.949	7.952	(1.000)	1828493	40.0000	
*	11 Phenanthrene-d10	188	9.207	9.209	(1.000)	3056039	40.0000	
$	15 o-Terphenyl	230	9.518	9.521	(1.034)	956788	21.3703	21
*	19 Chrysene-d12	240	11.569	11.577	(1.000)	2992199	40.0000	
*	24 Perylene-d12	264	13.472	13.481	(1.000)	3010942	40.0000	
	2 Naphthalene	128	6.304	6.307	(1.004)	1728141	21.5314	22
	3 2-Methylnaphthalene	142	7.003	7.006	(1.115)	1144034	22.3865	22
	4 1-Methylnaphthalene	142	7.092	7.100	(1.129)	1093612	20.7868	21
	5 1,1'-Biphenyl	154	7.438	7.441	(0.936)	1286663	20.8277	21
	6 Acenaphthylene	152	7.820	7.823	(0.984)	1763872	23.2664	23
	8 Acenaphthene	154	7.979	7.981	(1.004)	1063560	22.1147	22
	9 Dibenzofuran	168	8.126	8.128	(1.022)	1389403	20.9522	21
	10 Fluorene	166	8.419	8.422	(1.059)	1249621	22.9645	23
	12 Phenanthrene	178	9.224	9.227	(1.002)	1787673	21.5987	22
	13 Anthracene	178	9.266	9.268	(1.006)	1803785	22.4610	22
	16 Fluoranthene	202	10.206	10.214	(1.108)	1914304	22.6079	23

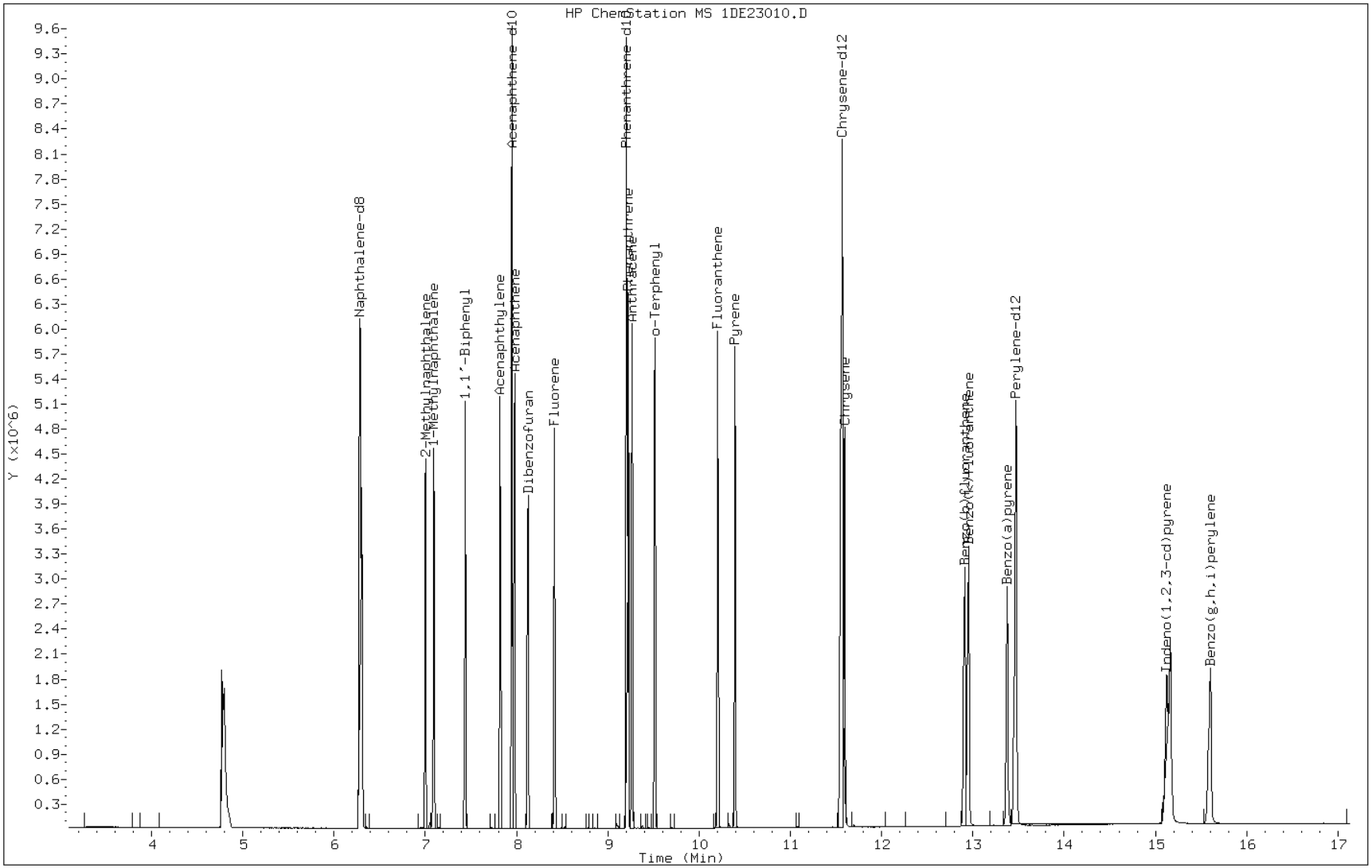
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	12.908	12.923	(0.958)	1699838	22.5351	22
22 Benzo(k)fluoranthene	252	12.949	12.970	(0.961)	1809098	22.9026	23
23 Benzo(a)pyrene	252	13.378	13.393	(0.993)	1601318	21.5420	22
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.149	(1.123)	1519348	19.5614	20
26 Dibenzo(a,h)anthracene	278	15.165	15.196	(1.126)	1540208	21.4753	21
27 Benzo(g,h,i)perylene	276	15.605	15.637	(1.158)	1552255	22.7045	23

Data File: 1DE23010.D

Date: 23-MAY-2013 15:41

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1558374 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Lab Sample ID: CCVIS 660-138011/3 Calibration Date: 06/03/2013 10:59

Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/23/2013 15:19

Lab File ID: 1DF03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9896	0.0000	20100	20000	0.3	20.0
2-Methylnaphthalene	Ave	0.6281	0.6476	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6466	0.6446	0.0000	19900	20000	-0.3	20.0
Acenaphthylene	Ave	1.658	1.836	0.0000	22100	20000	10.7	20.0
Acenaphthene	Ave	1.052	1.069	0.0000	20300	20000	1.6	20.0
Dibenzofuran	Ave	1.451	1.528		21100	20000	5.3	
Fluorene	Ave	1.190	1.273	0.0000	21400	20000	6.9	20.0
Phenanthrene	Ave	1.083	1.108	0.0000	20500	20000	2.3	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.2	20.0
Fluoranthene	Ave	1.108	1.173	0.0000	21200	20000	5.8	20.0
Pyrene	Ave	1.171	1.256	0.0000	21500	20000	7.3	20.0
Benzo[a]anthracene	Ave	1.187	1.165	0.0000	19600	20000	-1.9	20.0
Chrysene	Ave	1.069	1.047	0.0000	19600	20000	-2.1	20.0
Benzo[b]fluoranthene	Ave	1.002	1.131	0.0000	22600	20000	12.9	20.0
Benzo[k]fluoranthene	Ave	1.049	1.115	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Lin2	0.8952	1.035	0.0000	21000	20000	4.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.027	0.0000	19900	20000	-0.5	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9781	0.0000	20500	20000	2.7	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9832	0.0000	21700	20000	8.3	20.0
o-Terphenyl	Ave	0.5860	0.6180	0.0000	21100	20000	5.5	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 03-JUN-2013 10:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

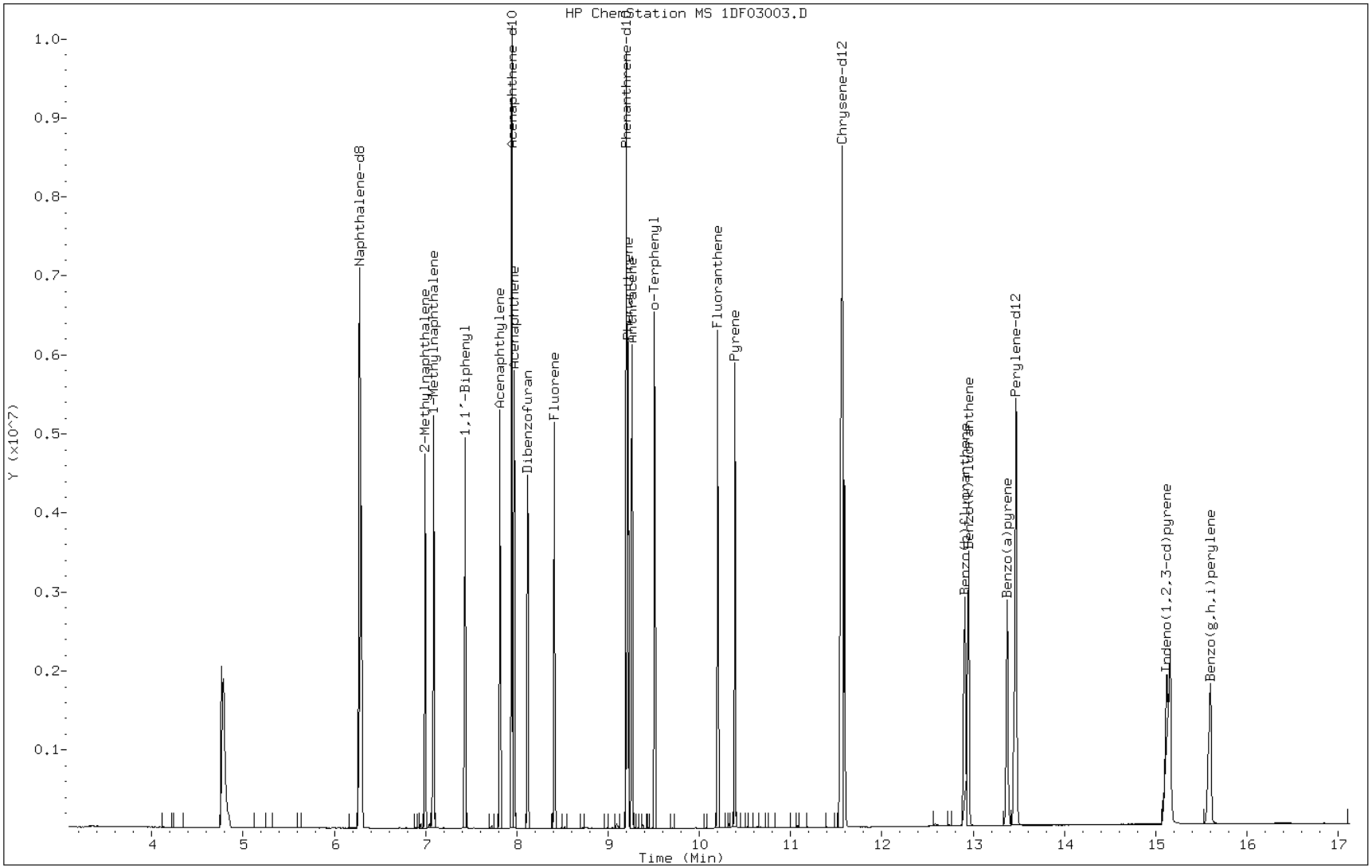
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.278	6.278	(1.000)	3550475	40.0000	
*	7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1958003	40.0000	
*	11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3275219	40.0000	
$	15 o-Terphenyl	230	9.509	9.509	(1.033)	1012028	20.0000	21
*	19 Chrysene-d12	240	11.566	11.566	(1.000)	3125523	40.0000	
*	24 Perylene-d12	264	13.469	13.469	(1.000)	3123612	40.0000	
	2 Naphthalene	128	6.295	6.295	(1.003)	1756746	20.0000	20
	3 2-Methylnaphthalene	142	6.995	6.995	(1.114)	1149704	20.0000	21
	4 1-Methylnaphthalene	142	7.089	7.089	(1.129)	1144342	20.0000	20
	5 1,1'-Biphenyl	154	7.429	7.429	(0.935)	1398131	20.0000	21
	6 Acenaphthylene	152	7.817	7.817	(0.984)	1797375	20.0000	22
	8 Acenaphthene	154	7.970	7.970	(1.003)	1046125	20.0000	20
	9 Dibenzofuran	168	8.117	8.117	(1.021)	1495544	20.0000	21
	10 Fluorene	166	8.411	8.411	(1.058)	1246319	20.0000	21
	12 Phenanthrene	178	9.221	9.221	(1.002)	1814705	20.0000	20
	13 Anthracene	178	9.263	9.263	(1.006)	1844637	20.0000	21
	16 Fluoranthene	202	10.203	10.203	(1.109)	1920264	20.0000	21
	17 Pyrene	202	10.391	10.391	(0.898)	1962899	20.0000	21
	18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1820097	20.0000	20
	20 Chrysene	228	11.595	11.595	(1.003)	1635839	20.0000	20
	21 Benzo(b)fluoranthene	252	12.911	12.911	(0.959)	1766694	20.0000	22
	22 Benzo(k)fluoranthene	252	12.946	12.946	(0.961)	1742124	20.0000	21
	23 Benzo(a)pyrene	252	13.375	13.375	(0.993)	1617162	20.0000	21
	25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.123)	1603622	20.0000	20
	26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.126)	1527551	20.0000	20
	27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1535565	20.0000	22

Data File: 1DF03003.D

Date: 03-JUN-2013 10:59

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1559459 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-MAY-2013 10:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

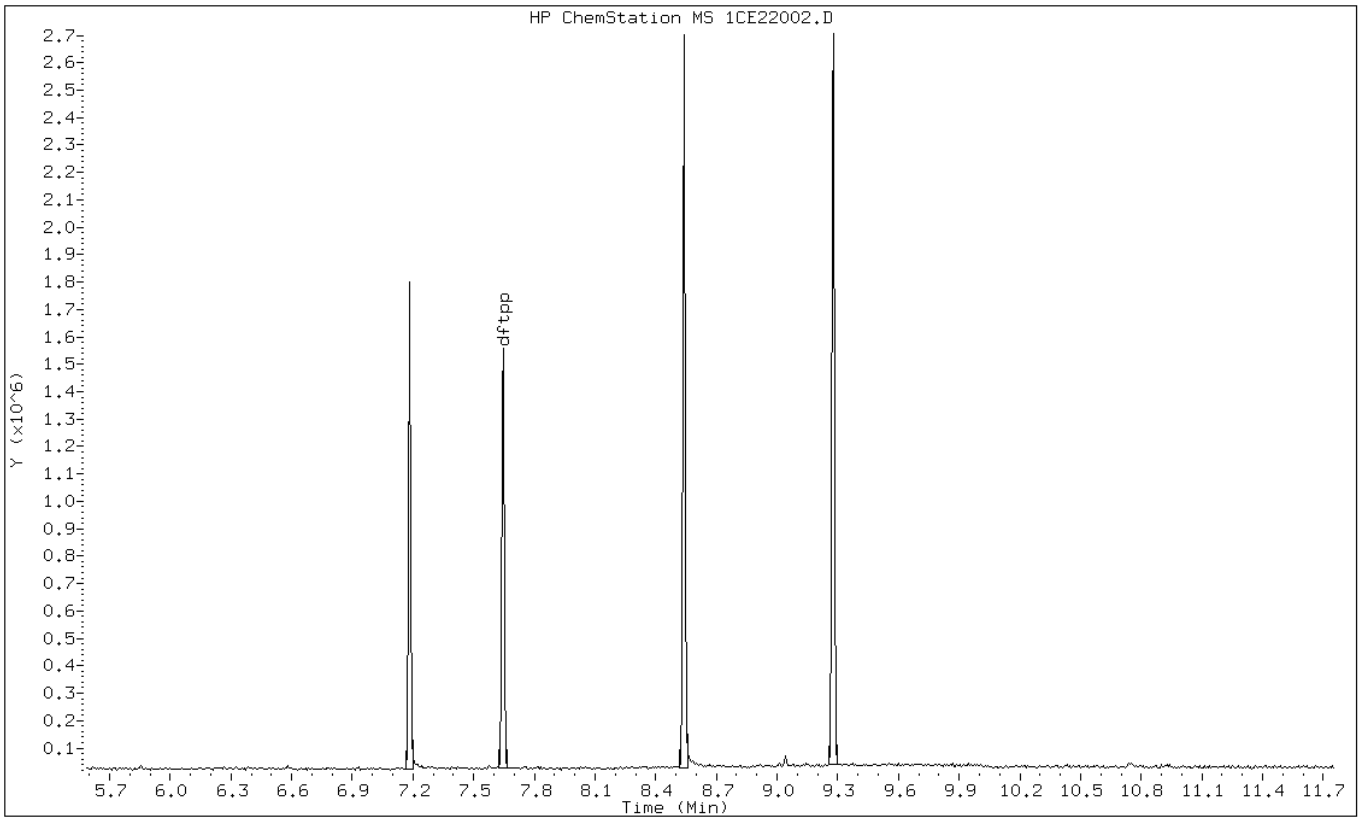
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.645	7.669	-0.024	198	167424			50.00- 0.00	100.00
7.645	7.669	-0.024	51	44984			10.00- 80.00	26.87
7.645	7.669	-0.024	68	1129			0.00- 2.00	1.61
7.645	7.669	-0.024	69	70064			0.00- 0.00	41.85
7.645	7.669	-0.024	70	616			0.00- 2.00	0.88
7.645	7.669	-0.024	127	82884			10.00- 80.00	49.51
7.645	7.669	-0.024	197	472			0.00- 2.00	0.28
7.645	7.669	-0.024	442	146592			50.00- 0.00	87.56
7.645	7.669	-0.024	199	11155			5.00- 9.00	6.66
7.645	7.669	-0.024	275	42468			10.00- 60.00	25.37
7.645	7.669	-0.024	365	4440			1.00- 0.00	2.65
7.645	7.669	-0.024	441	23620			0.01- 99.99	89.69
7.645	7.669	-0.024	443	26335			15.00- 24.00	17.96

Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



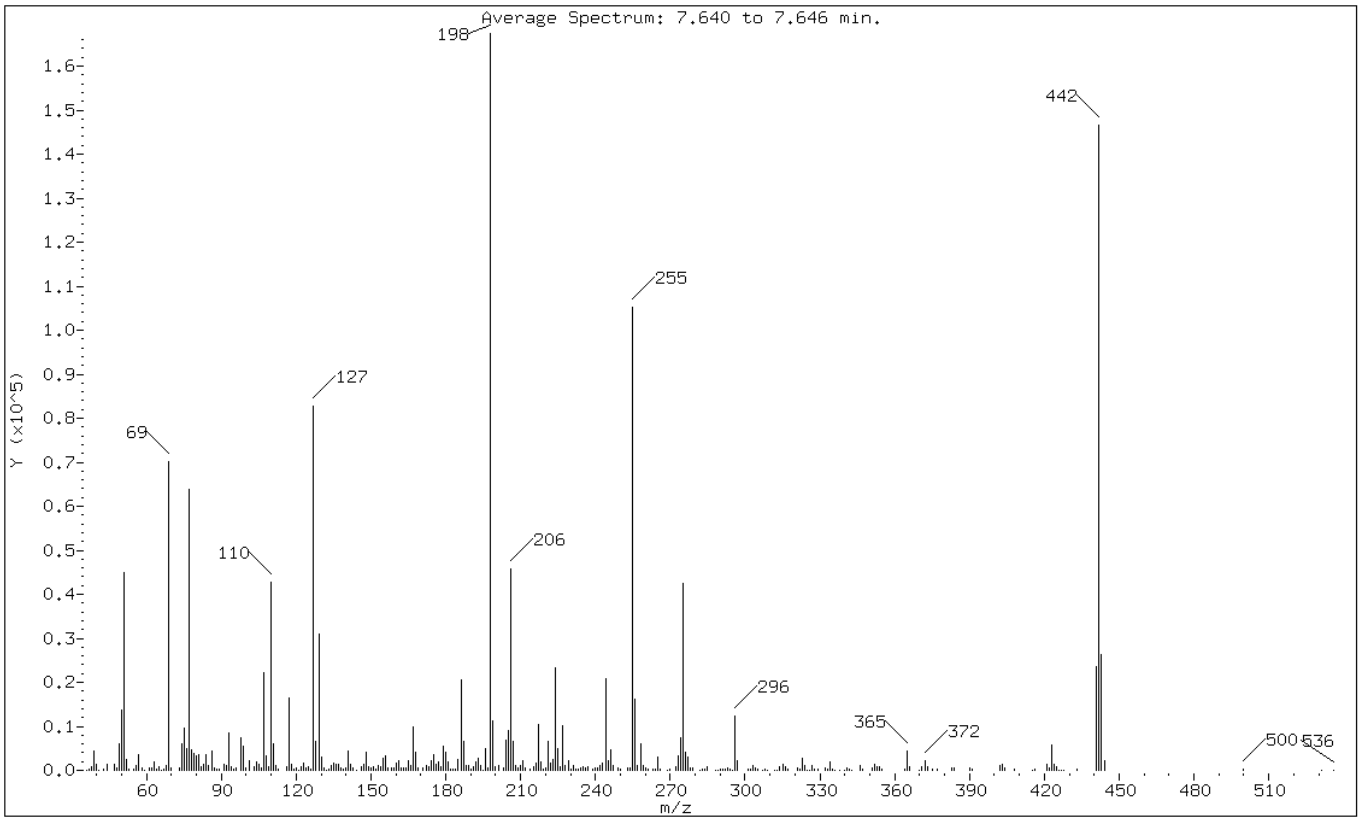
Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	26.87
68	Less than 2.00% of mass 69	0.67 (1.61)
69	Mass 69 relative abundance	41.85
70	Less than 2.00% of mass 69	0.37 (0.88)
127	10.00 - 80.00% of mass 198	49.51
197	Less than 2.00% of mass 198	0.28
442	Greater than 50.00% of mass 198	87.56
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	25.37
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	14.11
443	15.00 - 24.00% of mass 442	15.73 (17.96)

Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D
Spectrum: Average Spectrum: 7.640 to 7.646 min.
Location of Maximum: 198.00
Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	75	126.00	393	207.00	6605	301.00	380
37.00	396	127.00	82880	208.00	1162	302.00	376
38.00	719	128.00	6577	209.00	669	303.00	1097
39.00	4378	129.00	30872	210.00	1181	304.00	637
40.00	1473	130.00	2981	211.00	2206	305.00	342
41.00	114	131.00	437	212.00	530	307.00	79
43.00	174	132.00	132	214.00	245	308.00	199
44.00	1252	133.00	325	215.00	710	309.00	123
47.00	1437	134.00	1203	216.00	1569	312.00	136
48.00	452	135.00	1681	217.00	10494	313.00	85
49.00	6079	136.00	1336	218.00	1851	314.00	777
50.00	13820	137.00	1477	219.00	226	315.00	1253
51.00	44984	138.00	461	220.00	657	316.00	780
52.00	2340	139.00	168	221.00	6686	317.00	370
53.00	192	140.00	413	222.00	1781	321.00	516
55.00	403	141.00	4386	223.00	2470	322.00	257
56.00	1043	142.00	1297	224.00	23312	323.00	2758
57.00	3552	143.00	665	225.00	4963	324.00	1025
58.00	422	144.00	85	226.00	702	325.00	85
59.00	131	146.00	705	227.00	10024	326.00	125
61.00	561	147.00	1240	228.00	1137	327.00	1069
62.00	681	148.00	4136	229.00	2177	328.00	289
63.00	1840	149.00	844	230.00	219	329.00	227
64.00	304	150.00	489	231.00	1142	332.00	630
65.00	836	151.00	750	232.00	188	333.00	403
66.00	106	152.00	217	233.00	381	334.00	1854
67.00	213	153.00	1121	234.00	484	335.00	183
68.00	1129	154.00	817	235.00	929	336.00	134
69.00	70064	155.00	2696	236.00	618	338.00	114
70.00	616	156.00	3398	237.00	862	340.00	101
73.00	676	157.00	466	239.00	292	341.00	440
74.00	5926	158.00	586	240.00	524	342.00	223
75.00	9677	159.00	492	241.00	591	343.00	116
76.00	4823	160.00	1675	242.00	1095	346.00	1228
77.00	63808	161.00	2069	243.00	1560	347.00	386
78.00	4538	162.00	598	244.00	20856	351.00	453
79.00	3939	163.00	451	245.00	2099	352.00	1295
80.00	3344	164.00	474	246.00	4563	353.00	878
81.00	3657	165.00	2092	247.00	1035	354.00	778
82.00	832	166.00	1212	249.00	443	355.00	278

83.00	1382	167.00	9811	250.00	265	364.00	181
84.00	3471	168.00	4152	253.00	480	365.00	4440
85.00	1143	169.00	642	254.00	420	366.00	867
86.00	4504	171.00	542	255.00	105248	370.00	122
87.00	435	172.00	1124	256.00	16038	371.00	896
88.00	304	173.00	931	257.00	1209	372.00	2247
89.00	158	174.00	2310	258.00	6097	373.00	712
91.00	1340	175.00	3588	259.00	1063	375.00	159
92.00	1173	176.00	1243	260.00	641	377.00	196
93.00	8603	177.00	2037	261.00	219	383.00	625
94.00	795	178.00	771	263.00	285	384.00	629
95.00	168	179.00	5366	264.00	155	390.00	598
96.00	472	180.00	4120	265.00	2894	391.00	308
98.00	7464	181.00	1914	266.00	303	402.00	1094
99.00	5409	182.00	311	269.00	114	403.00	1503
100.00	430	183.00	282	270.00	179	404.00	678
101.00	2086	184.00	357	272.00	721	408.00	173
103.00	932	185.00	2430	273.00	3287	415.00	107
104.00	1995	186.00	20656	274.00	7399	416.00	325
105.00	1494	187.00	6442	275.00	42464	421.00	1302
106.00	657	188.00	1022	276.00	4079	422.00	469
107.00	22184	189.00	1106	277.00	3072	423.00	5654
108.00	3320	190.00	211	278.00	475	424.00	1440
109.00	718	191.00	821	279.00	478	425.00	768
110.00	42776	192.00	1902	282.00	81	426.00	103
111.00	6070	193.00	2686	283.00	330	427.00	133
112.00	1110	194.00	981	284.00	301	428.00	129
113.00	176	195.00	124	285.00	751	433.00	276
116.00	911	196.00	4948	288.00	79	441.00	23616
117.00	16448	197.00	472	289.00	98	442.00	146560
118.00	1346	198.00	167424	290.00	260	443.00	26328
119.00	365	199.00	11155	291.00	144	444.00	2240
120.00	505	200.00	725	292.00	185	500.00	141
121.00	127	201.00	1208	293.00	539	531.00	80
122.00	896	203.00	671	294.00	169	536.00	109
123.00	1534	204.00	6791	295.00	85		
124.00	533	205.00	8931	296.00	12373		
125.00	886	206.00	45888	297.00	2115		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-JUN-2013 10:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\c-dftpp198.m
Meth Date : 02-May-2013 11:12 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

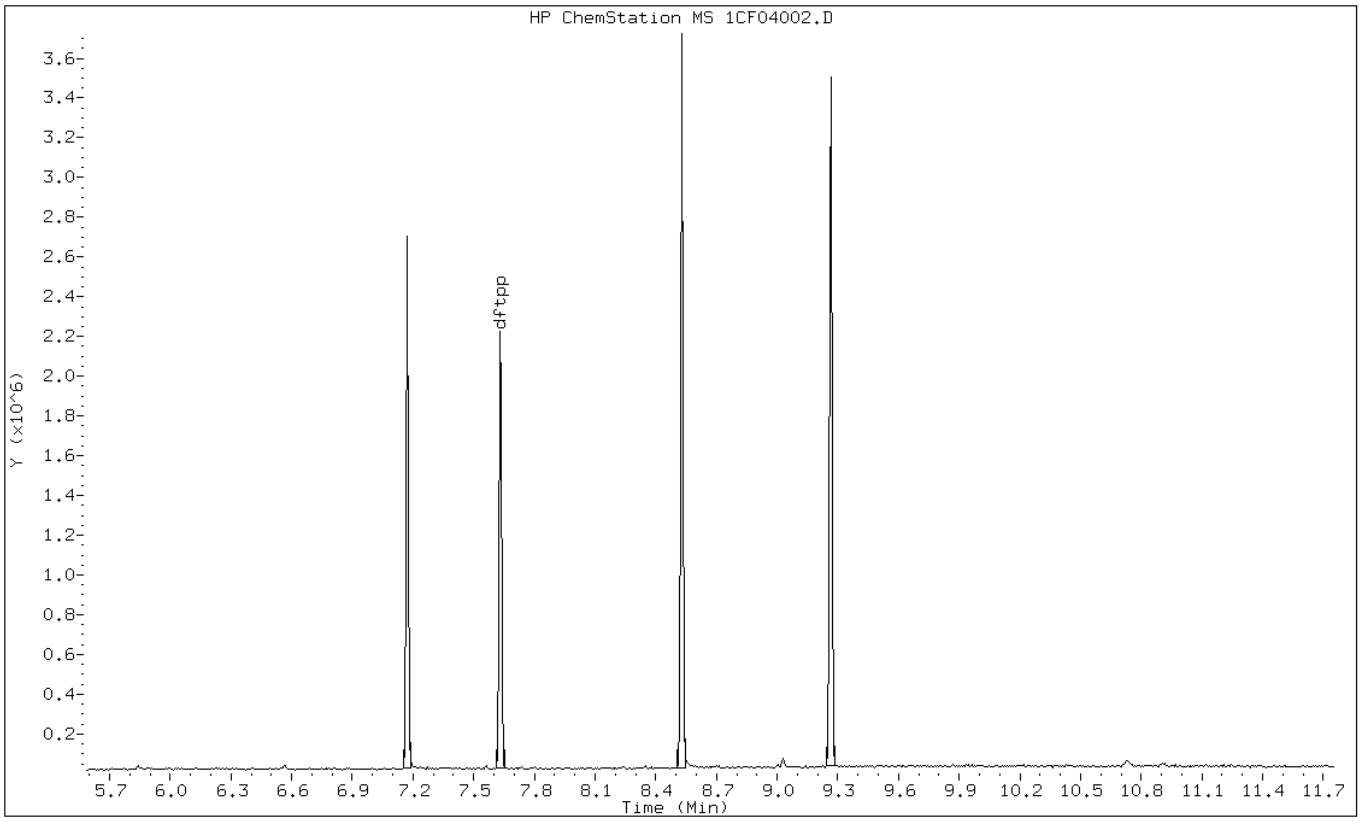
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.627	7.669	-0.042	198	256000			50.00- 0.00	100.00
7.627	7.669	-0.042	51	78672			10.00- 80.00	30.73
7.627	7.669	-0.042	68	1717			0.00- 2.00	1.33
7.627	7.669	-0.042	69	128912			0.00- 0.00	50.36
7.627	7.669	-0.042	70	625			0.00- 2.00	0.48
7.627	7.669	-0.042	127	127400			10.00- 80.00	49.77
7.627	7.669	-0.042	197	1961			0.00- 2.00	0.77
7.627	7.669	-0.042	442	183232			50.00- 0.00	71.58
7.627	7.669	-0.042	199	16198			5.00- 9.00	6.33
7.627	7.669	-0.042	275	54968			10.00- 60.00	21.47
7.627	7.669	-0.042	365	9717			1.00- 0.00	3.80
7.627	7.669	-0.042	441	27088			0.01- 99.99	77.61
7.627	7.669	-0.042	443	34904			15.00- 24.00	19.05

Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



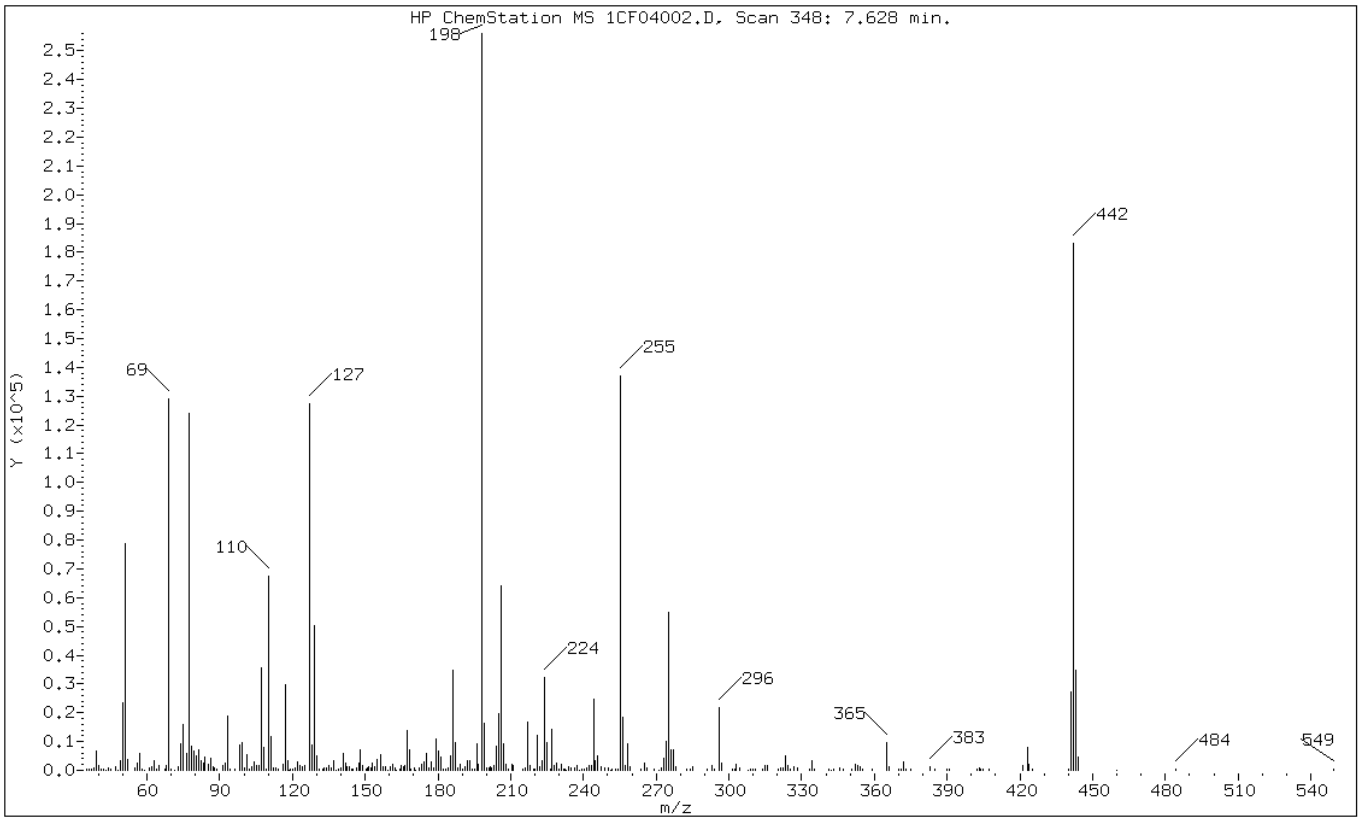
Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	30.73
68	Less than 2.00% of mass 69	0.67 (1.33)
69	Mass 69 relative abundance	50.36
70	Less than 2.00% of mass 69	0.24 (0.48)
127	10.00 - 80.00% of mass 198	49.77
197	Less than 2.00% of mass 198	0.77
442	Greater than 50.00% of mass 198	71.58
199	5.00 - 9.00% of mass 198	6.33
275	10.00 - 60.00% of mass 198	21.47
365	Greater than 1.00% of mass 198	3.80
441	Present, but less than mass 443	10.58
443	15.00 - 24.00% of mass 442	13.63 (19.05)

Data File: 1CF04002.D

Date: 04-JUN-2013 10:20

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04002.D
Spectrum: HP ChemStation MS 1CF04002.D, Scan 348: 7.628 min.
Location of Maximum: 198.10
Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	361	119.20	266	192.10	3268	275.10	54968
36.30	420	120.20	510	193.00	3551	276.10	7185
37.20	539	121.00	767	194.10	435	277.00	7050
38.10	677	122.20	3042	195.10	571	278.10	1108
39.10	6590	123.10	1788	196.10	9347	282.80	542
40.00	1620	124.00	1071	196.80	1961	284.10	562
41.10	364	125.10	1819	198.10	256000	285.10	1280
42.00	374	127.10	127400	199.00	16198	290.80	226
43.10	200	128.10	8681	200.00	808	293.20	1532
44.00	999	129.10	50336	200.90	1004	294.00	266
45.20	342	130.00	4850	201.50	1343	296.10	21696
47.00	1240	131.00	370	202.10	957	297.10	2454
48.10	201	132.50	366	203.10	1820	301.20	517
49.00	3250	133.10	1002	204.20	8332	302.20	286
50.10	23496	134.10	879	205.10	19736	303.00	2107
51.20	78672	135.20	1835	206.10	64192	304.20	766
52.20	3689	136.10	956	207.10	9273	308.10	185
55.10	675	137.20	3165	208.00	2179	308.80	251
56.10	2394	138.20	207	209.20	528	310.10	439
57.10	5931	138.90	349	210.30	1886	311.10	545
58.00	617	140.10	683	211.10	1777	314.10	502
59.00	181	141.10	5709	215.00	455	315.00	1767
61.00	642	141.90	2333	216.10	758	316.00	1519
62.10	1441	142.60	1084	217.10	16816	320.20	389
63.10	3378	143.20	1110	218.10	1652	321.20	686
64.00	488	144.20	295	219.30	263	322.10	668
65.10	1646	145.10	375	219.90	331	323.10	4956
67.20	605	146.20	754	221.00	11961	324.10	1696
68.10	1717	147.20	2445	222.10	1055	325.20	454
69.10	128912	148.10	7272	223.10	3492	326.90	1242
70.10	625	149.00	1756	224.10	32128	328.20	640
71.20	162	150.40	443	225.10	9624	333.00	519
73.10	1100	151.10	999	226.20	624	334.10	3207
74.10	9010	151.50	1204	227.10	14278	335.20	485
75.10	15759	152.20	972	228.00	1639	341.10	383
76.10	5717	152.90	2374	229.10	2389	342.10	177
77.20	124048	154.10	1158	229.70	593	343.10	344
78.10	8259	155.10	3879	230.10	536	345.90	858
79.10	6776	156.10	5256	231.00	1903	347.10	388
80.10	4923	157.20	1182	231.90	278	350.80	264

81.10	7056	158.10	1340	232.40	361	352.10	1924
82.10	3184	159.10	198	233.00	152	353.20	1803
83.10	2646	160.10	1386	234.10	1442	354.10	1458
84.00	4629	161.20	2007	235.10	638	355.10	518
85.20	1976	162.10	746	236.10	1024	358.90	513
86.10	4093	163.00	158	237.20	1552	365.00	9717
87.10	1332	164.10	222	238.10	172	365.90	1091
88.00	811	165.00	1614	239.10	330	370.10	418
88.90	379	165.90	1249	240.10	309	371.20	364
91.20	1835	166.30	1549	241.10	764	372.10	2730
92.10	2315	167.10	13720	242.10	1593	373.20	563
93.10	18896	168.10	7099	243.10	1683	375.20	240
94.10	455	168.90	376	244.10	24888	382.90	1139
96.30	347	170.10	745	245.00	3423	384.70	237
98.10	8775	171.00	178	246.00	5098	389.70	304
99.10	9529	172.10	818	247.10	1461	391.00	445
100.10	1024	173.00	2072	249.00	815	402.10	443
101.10	5626	174.00	2967	250.20	800	403.20	731
102.00	296	175.10	5770	251.30	163	404.00	276
103.10	1404	176.20	1025	252.00	349	405.00	260
104.00	2862	177.10	2729	253.10	319	407.20	309
105.20	1779	178.20	724	254.10	468	421.00	1780
106.10	1484	179.00	10817	255.10	137088	423.10	7799
107.10	35728	180.20	6560	256.10	18424	423.90	2081
108.10	7786	181.20	4747	257.10	1601	425.10	260
109.00	584	182.10	566	258.00	9013	440.20	509
110.10	67632	183.00	355	259.00	1248	441.10	27088
111.10	11919	184.10	881	263.80	419	442.10	183232
111.90	878	185.20	5157	265.10	2521	443.10	34904
113.10	923	186.10	34784	266.10	715	444.10	4705
114.20	213	187.10	9755	269.10	228	460.00	161
116.10	2048	188.20	656	271.10	193	484.40	253
117.10	29592	189.10	1904	271.90	980	549.40	331
118.00	3396	190.00	388	273.00	4327		
118.80	168	191.00	1296	274.10	10261		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-MAY-2013 11:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

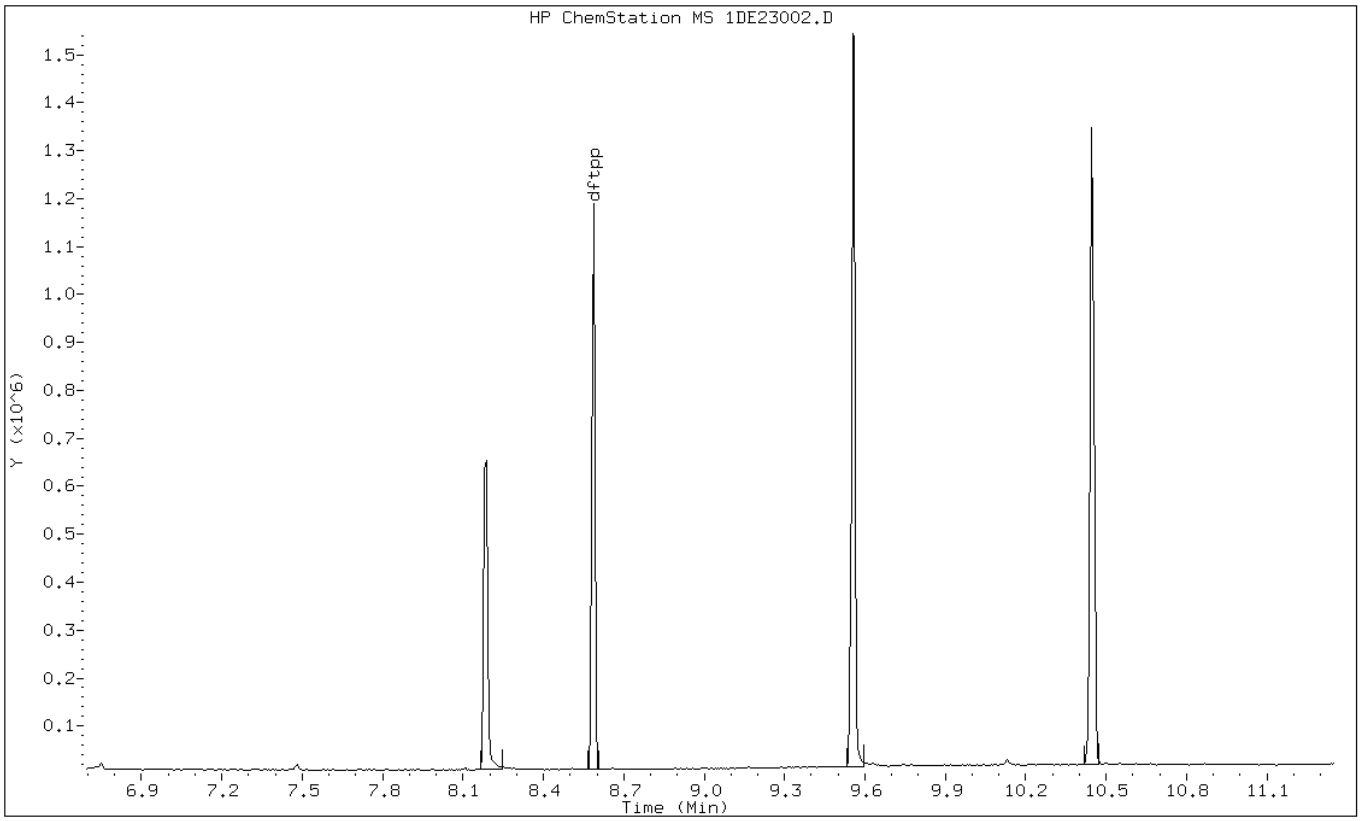
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.587	8.532	0.055	198	121784			50.00- 0.00	100.00
8.587	8.532	0.055	51	67440			10.00- 80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	69	65104			0.00- 0.00	53.46
8.587	8.532	0.055	70	565			0.00- 2.00	0.87
8.587	8.532	0.055	127	68776			10.00- 80.00	56.47
8.587	8.532	0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.587	8.532	0.055	442	65752			50.00- 0.00	53.99
8.587	8.532	0.055	199	8068			5.00- 9.00	6.62
8.587	8.532	0.055	275	31712			10.00- 60.00	26.04
8.587	8.532	0.055	365	4846			1.00- 0.00	3.98
8.587	8.532	0.055	441	9492			0.01- 99.99	78.47
8.587	8.532	0.055	443	12096			15.00- 24.00	18.40

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



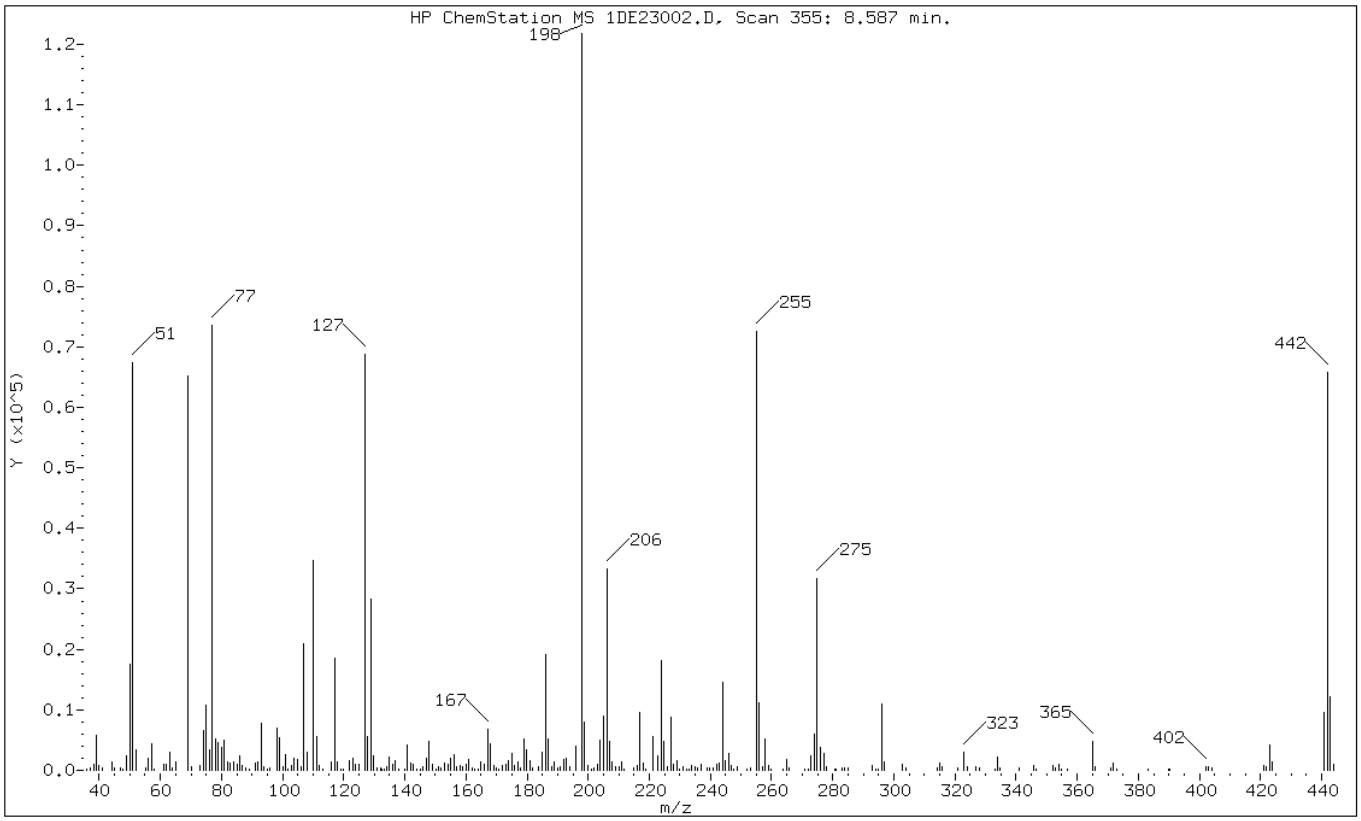
Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.46
70	Less than 2.00% of mass 69	0.46 (0.87)
127	10.00 - 80.00% of mass 198	56.47
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.99
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	26.04
365	Greater than 1.00% of mass 198	3.98
441	Present, but less than mass 443	7.79
443	15.00 - 24.00% of mass 442	9.93 (18.40)

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052313_pahIC.b\1DE23002.D
Spectrum: HP ChemStation MS 1DE23002.D, Scan 355: 8.587 min.
Location of Maximum: 197.90
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	249	117.90	1357	186.00	19144	263.70	171
37.10	370	118.90	263	186.90	5217	264.90	1873
38.10	973	120.00	223	187.90	612	265.80	383
39.00	5723	121.90	1665	188.90	1329	271.00	186
40.00	747	122.90	2073	189.90	307	271.90	293
41.00	364	124.00	1000	191.00	596	272.90	2302
44.00	1452	125.00	929	191.90	1822	273.90	5948
45.10	334	127.00	68776	192.90	2065	274.90	31712
46.90	480	127.90	5565	194.00	565	275.90	3785
47.80	238	128.90	28208	195.90	3944	277.00	2800
49.00	2358	129.90	2448	197.90	121784	277.90	659
50.00	17600	131.10	380	198.90	8068	280.80	191
51.00	67440	132.00	342	199.90	824	281.10	192
52.00	3328	132.60	152	201.10	276	283.00	400
55.10	409	133.10	215	201.70	467	283.90	307
56.00	2025	133.90	654	203.00	968	284.90	387
57.00	4381	134.90	2109	203.90	5020	293.00	825
58.00	217	136.00	922	205.00	9032	294.00	151
61.00	1013	136.90	1647	206.00	33240	294.90	243
62.00	913	138.00	265	207.00	4794	295.90	11046
63.00	2951	139.90	239	207.90	1427	296.90	1346
64.00	397	140.90	4179	208.80	681	302.90	926
65.00	1343	141.90	1118	210.00	552	304.00	330
69.00	65104	142.90	1031	210.90	1454	314.10	375
70.00	565	144.00	240	211.80	223	314.90	1098
73.00	790	145.10	221	214.90	414	315.90	571
74.00	6651	145.90	520	216.00	838	320.90	352
75.00	10782	147.00	2016	216.90	9622	323.00	2997
76.00	3422	148.00	4753	217.90	1129	323.90	666
77.00	73512	148.90	1096	218.80	154	326.80	600
78.00	5136	150.10	273	221.00	5672	328.00	304
79.00	4645	150.90	581	222.90	2421	333.00	236
80.00	3799	151.70	317	224.00	18232	333.90	2273
81.00	4928	152.90	1222	224.90	4829	334.90	490
82.00	1382	154.00	956	226.00	615	341.00	350
82.90	1163	155.00	1904	226.90	8729	345.80	800
83.90	1444	156.00	2641	227.90	1012	346.70	161
85.00	909	157.00	572	228.90	1680	351.90	800
85.90	2381	158.00	809	229.80	268	352.80	433
86.90	728	159.00	666	230.90	693	354.00	1029

87.90	331	160.00	933	232.10	157	354.90	170
89.00	285	160.90	1756	233.00	179	356.90	162
91.00	1150	162.00	462	233.90	756	365.00	4846
91.90	1474	162.80	203	235.00	558	365.90	560
92.90	7822	164.10	158	235.90	487	371.10	322
93.90	567	164.90	1406	236.90	950	371.90	1258
94.90	179	166.00	940	238.90	325	372.80	192
96.00	396	167.00	6772	239.80	300	373.10	180
98.00	6996	167.90	4389	241.00	416	383.10	221
98.90	5360	169.00	764	242.00	904	390.00	192
100.00	551	170.00	342	242.90	1190	390.30	165
100.90	2607	170.80	216	244.00	14621	402.00	625
101.90	286	171.90	754	244.90	1630	402.80	604
102.90	815	172.90	903	245.90	2736	403.90	416
103.90	1983	174.00	1510	246.90	832	420.90	877
105.00	1804	175.00	2756	247.70	160	422.00	504
106.00	509	175.90	753	248.90	508	422.90	4151
107.00	20912	177.00	1365	252.10	158	423.90	1358
107.90	2991	177.90	464	253.00	393	440.90	9492
109.90	34672	178.90	5168	254.90	72544	441.90	65752
111.00	5529	179.90	3472	255.90	11148	442.90	12096
111.90	765	180.90	1571	257.00	697	443.90	1083
113.00	248	181.90	303	257.90	5230		
116.00	1418	183.90	514	258.90	884		
117.00	18560	185.00	2991	260.00	157		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUN-2013 10:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.578	8.532	0.046	198	232960			50.00- 0.00	100.00
8.578	8.532	0.046	51	107192			10.00- 80.00	46.01
8.578	8.532	0.046	68	0	0.0	0.0	0.00- 2.00	0.00
8.578	8.532	0.046	69	108736			0.00- 0.00	46.68
8.578	8.532	0.046	70	529			0.00- 2.00	0.49
8.578	8.532	0.046	127	122064			10.00- 80.00	52.40
8.578	8.532	0.046	197	0	0.0	0.0	0.00- 2.00	0.00
8.578	8.532	0.046	442	134144			50.00- 0.00	57.58
8.578	8.532	0.046	199	16209			5.00- 9.00	6.96
8.578	8.532	0.046	275	60000			10.00- 60.00	25.76
8.578	8.532	0.046	365	8034			1.00- 0.00	3.45
8.578	8.532	0.046	441	19392			0.01- 99.99	77.27
8.578	8.532	0.046	443	25096			15.00- 24.00	18.71

Data File: 1DF03002.D

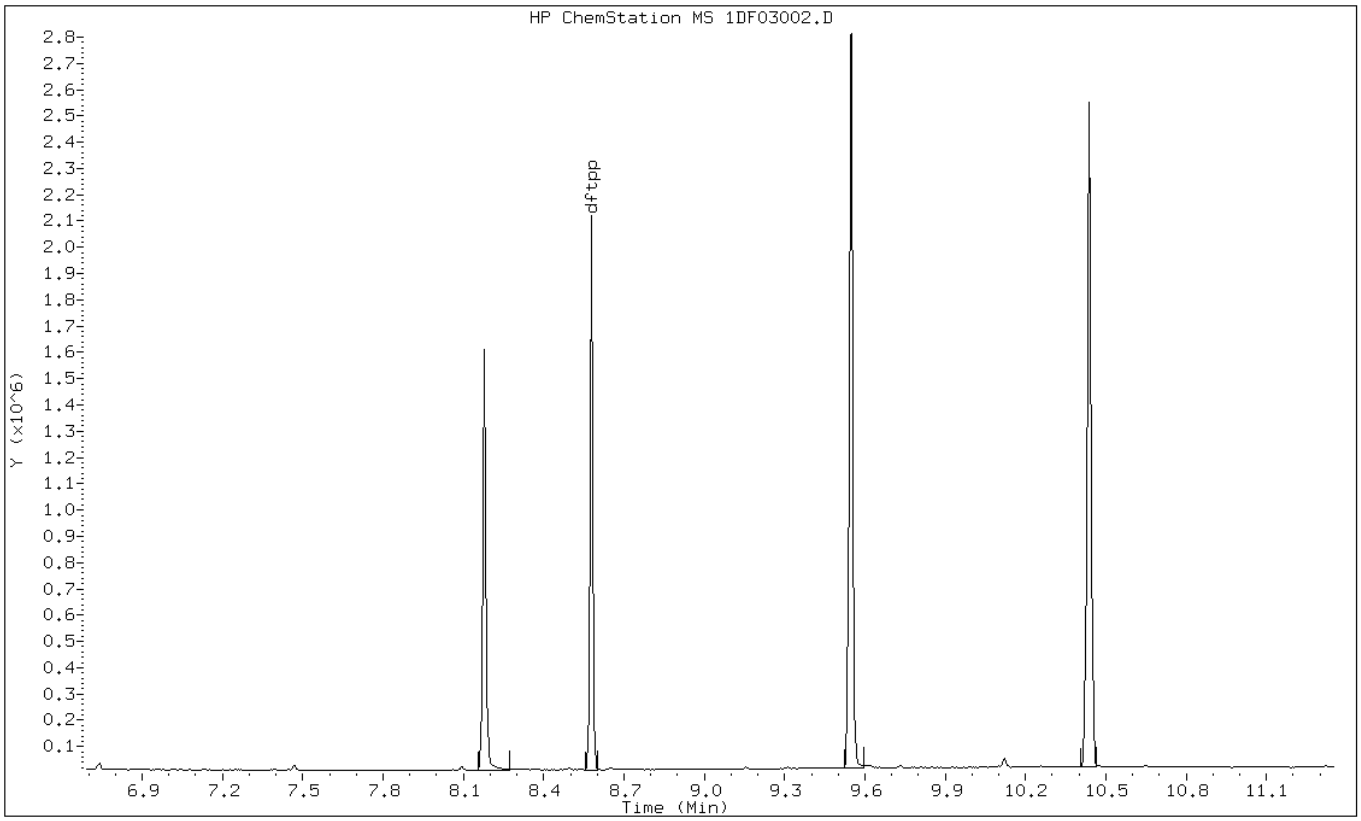
Date: 03-JUN-2013 10:41

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



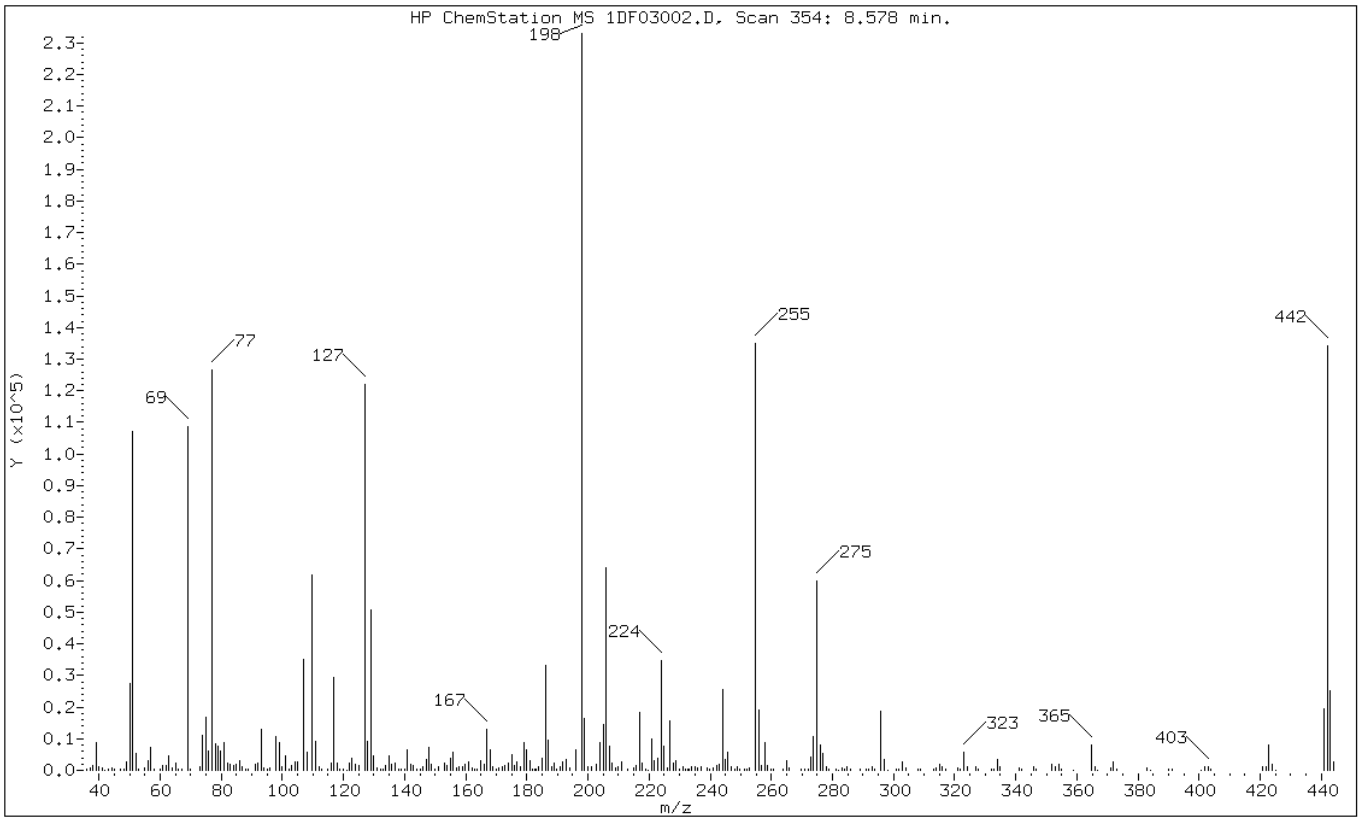
Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.68
70	Less than 2.00% of mass 69	0.23 (0.49)
127	10.00 - 80.00% of mass 198	52.40
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	57.58
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 60.00% of mass 198	25.76
365	Greater than 1.00% of mass 198	3.45
441	Present, but less than mass 443	8.32
443	15.00 - 24.00% of mass 442	10.77 (18.71)

Data File: 1DF03002.D

Date: 03-JUN-2013 10:41

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03002.D
Spectrum: HP ChemStation MS 1DF03002.D, Scan 354: 8.578 min.
Location of Maximum: 197.90
Number of points: 288

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	338	119.90	546	194.00	801	278.00	1001
37.00	595	121.00	167	195.90	6555	278.90	219
38.10	1381	121.90	2292	197.90	232960	281.00	302
39.10	8734	122.90	3670	198.90	16209	282.00	189
40.00	1317	123.90	1777	199.90	1311	283.00	697
41.10	772	124.90	1670	201.30	1054	283.90	449
42.00	178	127.00	122064	202.90	1932	284.90	1034
42.90	394	127.90	9091	203.90	8682	285.80	192
44.10	657	128.90	50808	205.00	14417	288.90	201
45.10	380	129.90	4445	206.00	63872	290.90	204
47.00	402	131.00	865	207.00	7690	291.80	203
48.10	263	132.00	536	207.90	2159	292.90	1020
49.00	2641	133.00	280	208.90	791	294.00	311
50.00	27416	133.90	1499	210.00	1071	295.90	18528
51.00	107192	134.90	4592	211.00	2631	296.90	3258
52.00	5277	135.90	1757	213.10	193	298.00	189
53.00	317	137.00	2315	214.90	812	300.90	272
55.10	675	138.00	376	215.90	1448	301.80	196
56.00	3234	139.00	272	216.90	18128	303.00	2532
57.00	7402	139.90	537	217.90	2285	303.90	654
58.00	371	140.90	6472	218.80	228	308.00	420
60.10	194	142.00	2072	219.60	157	308.80	235
61.00	1552	142.90	1449	220.90	10097	313.00	191
62.00	1652	143.90	512	221.80	2982	313.90	853
63.00	4547	145.00	411	222.90	3901	315.00	2020
64.00	743	146.00	1165	224.00	34824	315.90	1204
65.00	2284	147.00	3289	225.00	7780	317.10	195
66.00	298	147.90	7297	225.90	931	320.90	639
67.10	316	148.90	1730	226.90	15453	321.90	293
69.00	108736	150.00	415	227.90	2341	323.00	5835
70.00	529	151.00	1111	228.90	3194	324.00	1115
73.00	1209	152.90	2120	229.90	341	326.90	1107
74.00	11231	153.90	1483	231.00	1110	327.90	437
75.00	16896	154.90	3934	232.10	197	331.90	418
76.00	6130	155.90	5890	232.80	295	333.00	568
77.00	126472	156.90	864	233.10	285	334.00	3470
78.00	8371	157.90	1064	233.80	988	335.00	1085
79.00	7744	158.90	962	234.90	1085	341.00	813
79.90	6278	159.90	1749	235.90	876	342.00	260
81.00	8814	161.00	2685	236.90	1149	345.90	1258

82.00	2327	162.00	846	238.90	780	346.80	250
83.10	1991	162.90	373	239.80	467	351.90	1859
83.90	1533	163.80	555	240.90	745	352.90	987
84.90	1737	164.80	2866	242.00	1620	354.00	1888
85.90	3110	166.00	1876	243.00	1788	354.90	299
87.00	1203	166.90	13062	244.00	25576	359.00	171
87.90	549	167.90	6318	244.90	3357	364.90	8034
89.00	283	168.90	1169	245.90	5899	365.80	1000
91.00	1911	170.00	412	247.00	1147	366.90	188
91.90	2383	171.00	664	248.00	195	371.00	622
93.00	12969	171.90	1098	248.90	1159	371.90	2695
94.00	865	172.90	1522	249.80	197	372.90	421
95.00	235	174.00	2437	251.10	210	382.90	609
95.90	860	175.00	4845	252.00	414	383.90	166
98.00	10585	175.90	1393	252.90	770	389.90	321
99.00	8695	176.90	2616	254.90	135040	391.00	416
99.90	961	177.90	1080	255.90	19064	400.80	170
101.00	4504	178.90	8740	256.90	1369	401.90	1159
102.10	250	179.90	6425	257.90	8849	402.90	1176
102.90	1439	180.90	3118	258.90	1681	403.90	370
104.00	2789	182.00	370	259.90	258	420.90	1048
105.00	2785	182.70	285	260.80	228	421.90	1053
107.00	35112	183.00	254	263.70	299	422.90	8010
108.00	5730	183.90	1035	265.00	3044	423.90	1859
109.90	61720	185.00	3909	265.90	755	424.90	186
110.90	9299	186.00	33120	269.80	295	440.90	19392
112.00	1242	187.00	9679	270.90	334	441.90	134144
112.90	434	188.00	1154	272.00	414	442.90	25096
114.90	303	188.90	2392	272.90	4126	444.00	2546
115.90	2110	189.80	390	273.90	10792		
116.90	29392	191.00	1137	274.90	60000		
117.90	2309	191.90	2757	275.90	7922		
118.90	396	193.00	3312	276.90	5498		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

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

Matrix: Solid | Lab File ID: 1DF03017.D

Analysis Method: 8270C LL | Date Collected:

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

Sample wt/vol: 14.99(g) | Date Analyzed: 06/03/2013 18:26

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

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

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

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	6.92	J	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03017.D
Lab Smp Id: mb 660-137975/1-a
Inj Date : 03-JUN-2013 18:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-137975/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.272	6.278	(1.000)	3456782	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1935400	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3051369	40.0000	
$ 15 o-Terphenyl	230	9.509	9.509	(1.033)	405243	9.06515	600
* 19 Chrysene-d12	240	11.560	11.566	(1.000)	2809734	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	3127100	40.0000	
2 Naphthalene	128	6.295	6.295	(1.004)	3612	0.04237	2.8(QM)
12 Phenanthrene	178	9.216	9.221	(1.001)	8577	0.10379	6.9
16 Fluoranthene	202	10.197	10.203	(1.108)	2898	0.03428	2.3

QC Flag Legend

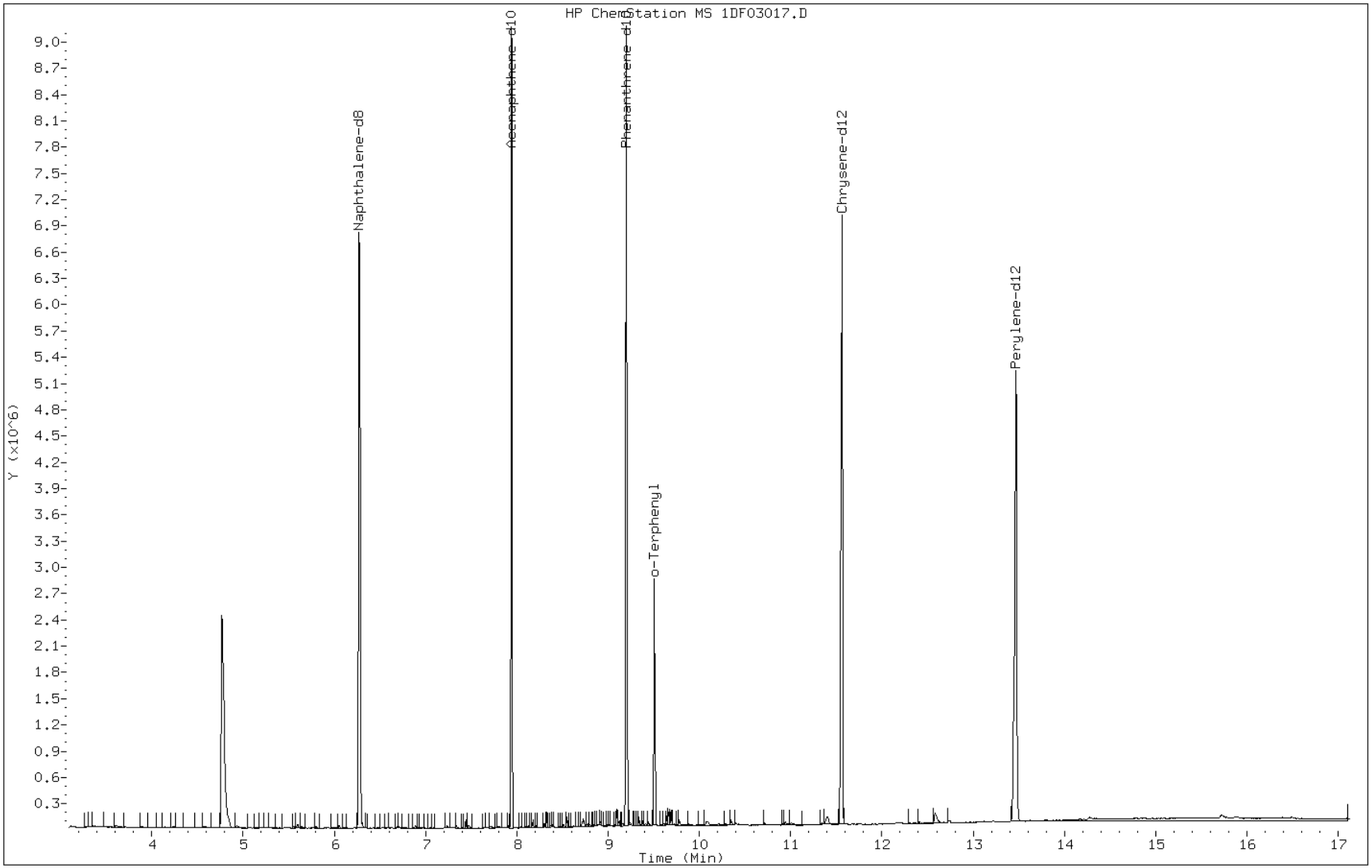
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DF03017.D

Date: 03-JUN-2013 18:26

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-137975/1-a Operator: SCC



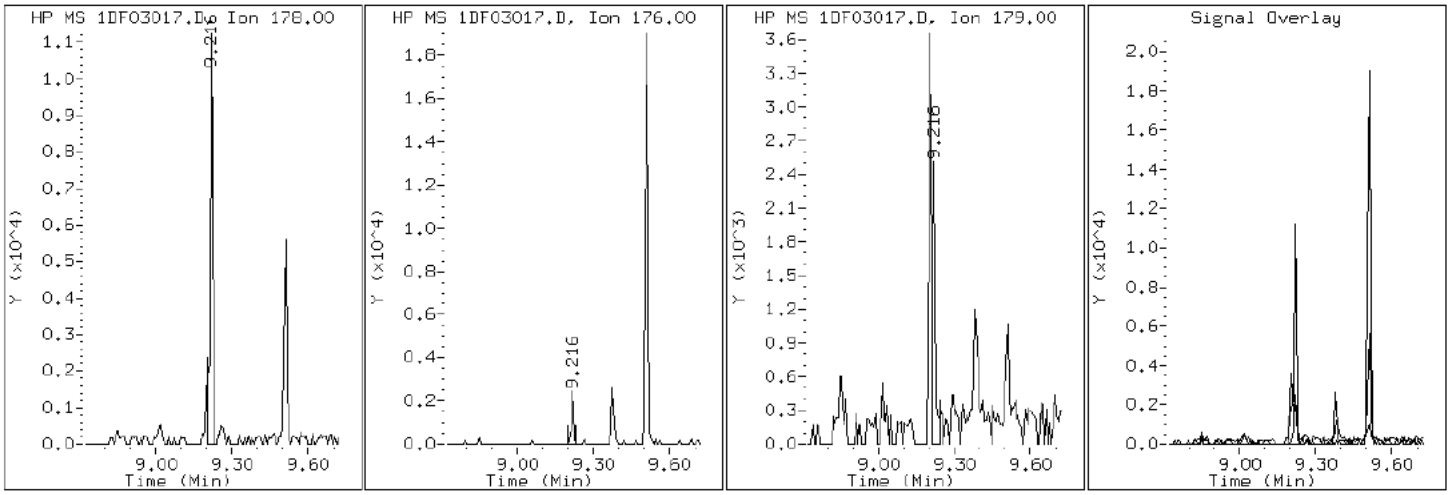
Data File: 1DF03017.D

Date: 03-JUN-2013 18:26

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-137975/1-a Operator: SCC

12 Phenanthrene



Manual Integration Report

Data File: 1DF03017.D
Inj. Date and Time: 03-JUN-2013 18:26
Instrument ID: BSMSD.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 06/04/2013

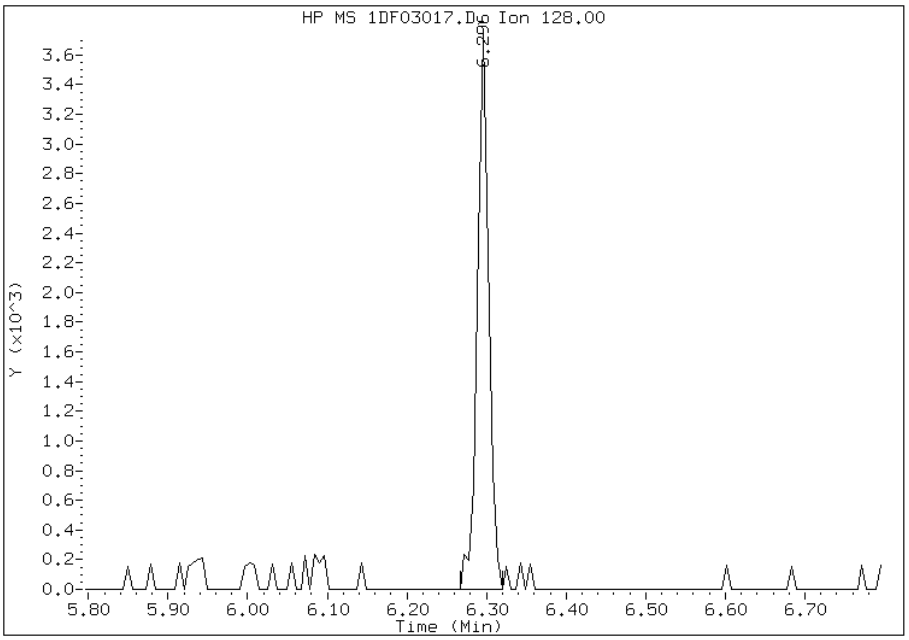
Processing Integration Results

RT: 6.30

Response: 3694

Amount: 0

Conc: 3



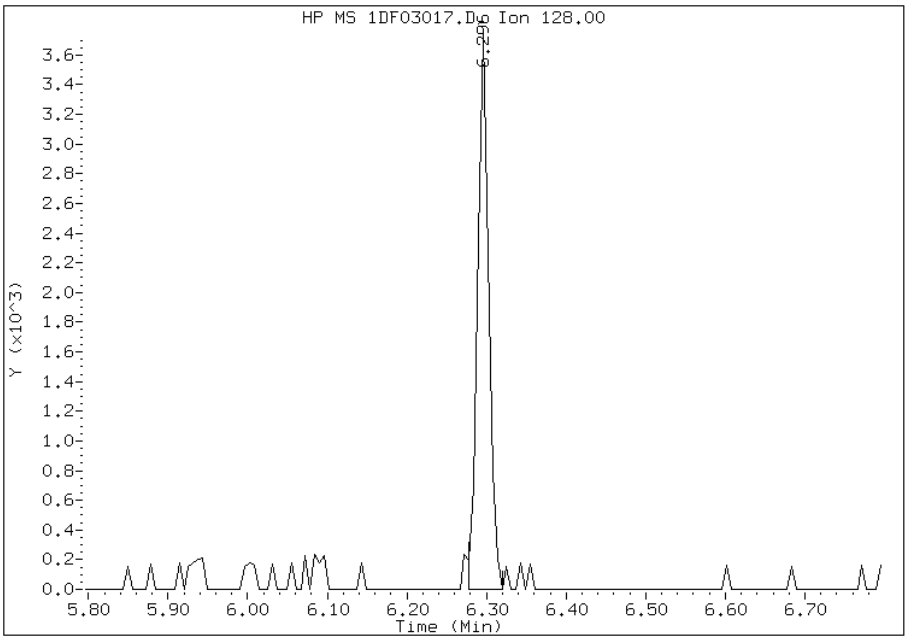
Manual Integration Results

RT: 6.30

Response: 3612

Amount: 0

Conc: 3



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 12:05
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: | Lab Sample ID: MB 660-137991/1-A

Matrix: Solid | Lab File ID: 1CF04020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.01(g) | Date Analyzed: 06/04/2013 16:06

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.: 138098 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04020.D
Lab Smp Id: mb 660-137991/1-a
Inj Date : 04-JUN-2013 16:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-137991/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 20 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

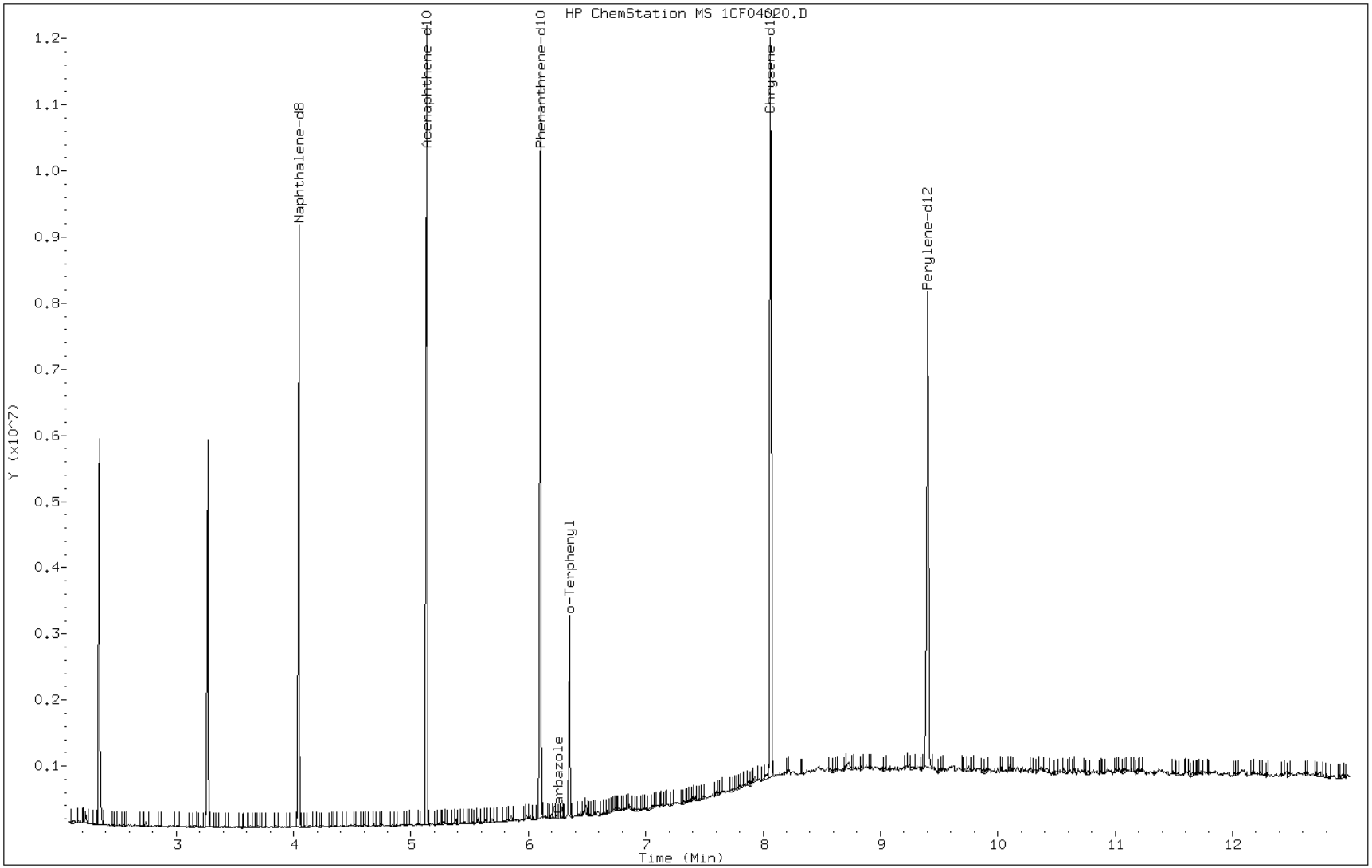
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2538180	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1800811	40.0000	
*	10 Phenanthrene-d10	188	6.103	6.104	(1.000)	3242505	40.0000	
$	14 o-Terphenyl	230	6.350	6.351	(1.040)	434966	8.61149	573.7167
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3347505	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3307771	40.0000	
	13 Carbazole	167	6.262	6.257	(1.026)	2702	0.14743	9.8223

Data File: 1CF04020.D

Date: 04-JUN-2013 16:06

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-137991/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

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

Matrix: Solid | Lab File ID: 1DF03018.D

Analysis Method: 8270C LL | Date Collected:

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

Sample wt/vol: 15.43(g) | Date Analyzed: 06/03/2013 18:48

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

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

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

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	608		97	19
208-96-8	Acenaphthylene	654		39	4.9
120-12-7	Anthracene	676		8.2	4.1
56-55-3	Benzo[a]anthracene	622		7.8	3.8
50-32-8	Benzo[a]pyrene	602		10	5.1
205-99-2	Benzo[b]fluoranthene	684		12	5.9
191-24-2	Benzo[g,h,i]perylene	599		19	4.3
207-08-9	Benzo[k]fluoranthene	629		7.8	3.5
218-01-9	Chrysene	642		8.7	4.4
53-70-3	Dibenz(a,h)anthracene	617		19	4.0
206-44-0	Fluoranthene	659		19	3.9
86-73-7	Fluorene	656		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	574		19	6.9
90-12-0	1-Methylnaphthalene	569		39	4.3
91-57-6	2-Methylnaphthalene	610		39	6.9
91-20-3	Naphthalene	588		39	4.3
85-01-8	Phenanthrene	660		7.8	3.8
129-00-0	Pyrene	681		19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03018.D
Lab Smp Id: lcs 660-137975/2-a
Inj Date : 03-JUN-2013 18:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-137975/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.430	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.275	6.278	(1.000)	3727808	40.0000	
* 7	Acenaphthene-d10	164	7.944	7.946	(1.000)	2062640	40.0000	
* 11	Phenanthrene-d10	188	9.201	9.204	(1.000)	3267982	40.0000	
$ 15	o-Terphenyl	230	9.507	9.509	(1.033)	463261	9.67610	630
* 19	Chrysene-d12	240	11.563	11.566	(1.000)	2981539	40.0000	
* 24	Perylene-d12	264	13.473	13.469	(1.000)	3229027	40.0000	
2	Naphthalene	128	6.293	6.295	(1.003)	834733	9.08013	590
3	2-Methylnaphthalene	142	6.992	6.995	(1.114)	550731	9.40889	610
4	1-Methylnaphthalene	142	7.086	7.089	(1.129)	529205	8.78213	570
5	1,1'-Biphenyl	154	7.427	7.429	(0.935)	1037	0.01488	0.96(aR)
6	Acenaphthylene	152	7.815	7.817	(0.984)	862632	10.0869	650
8	Acenaphthene	154	7.973	7.970	(1.004)	509197	9.38587	610
9	Dibenzofuran	168	8.120	8.117	(1.022)	741278	9.90951	640
10	Fluorene	166	8.414	8.411	(1.059)	621443	10.1240	660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
12 Phenanthrene	178	9.219	9.221	(1.002)	901096	10.1810	660
13 Anthracene	178	9.260	9.263	(1.006)	895968	10.4332	680
16 Fluoranthene	202	10.200	10.203	(1.109)	921008	10.1716	660
17 Pyrene	202	10.388	10.391	(0.898)	917433	10.5099	680
18 Benzo(a)anthracene	228	11.545	11.548	(0.998)	849474	9.60014	620
20 Chrysene	228	11.592	11.595	(1.003)	789506	9.90851	640
21 Benzo(b)fluoranthene	252	12.903	12.911	(0.958)	853249	10.5477	680
22 Benzo(k)fluoranthene	252	12.944	12.946	(0.961)	821606	9.69876	630
23 Benzo(a)pyrene	252	13.373	13.375	(0.993)	735923	9.28775	600
25 Indeno(1,2,3-cd)pyrene	276	15.118	15.120	(1.122)	731178	8.85965	570
26 Dibenzo(a,h)anthracene	278	15.153	15.162	(1.125)	729336	9.52260	620
27 Benzo(g,h,i)perylene	276	15.588	15.602	(1.157)	678106	9.24863	600

QC Flag Legend

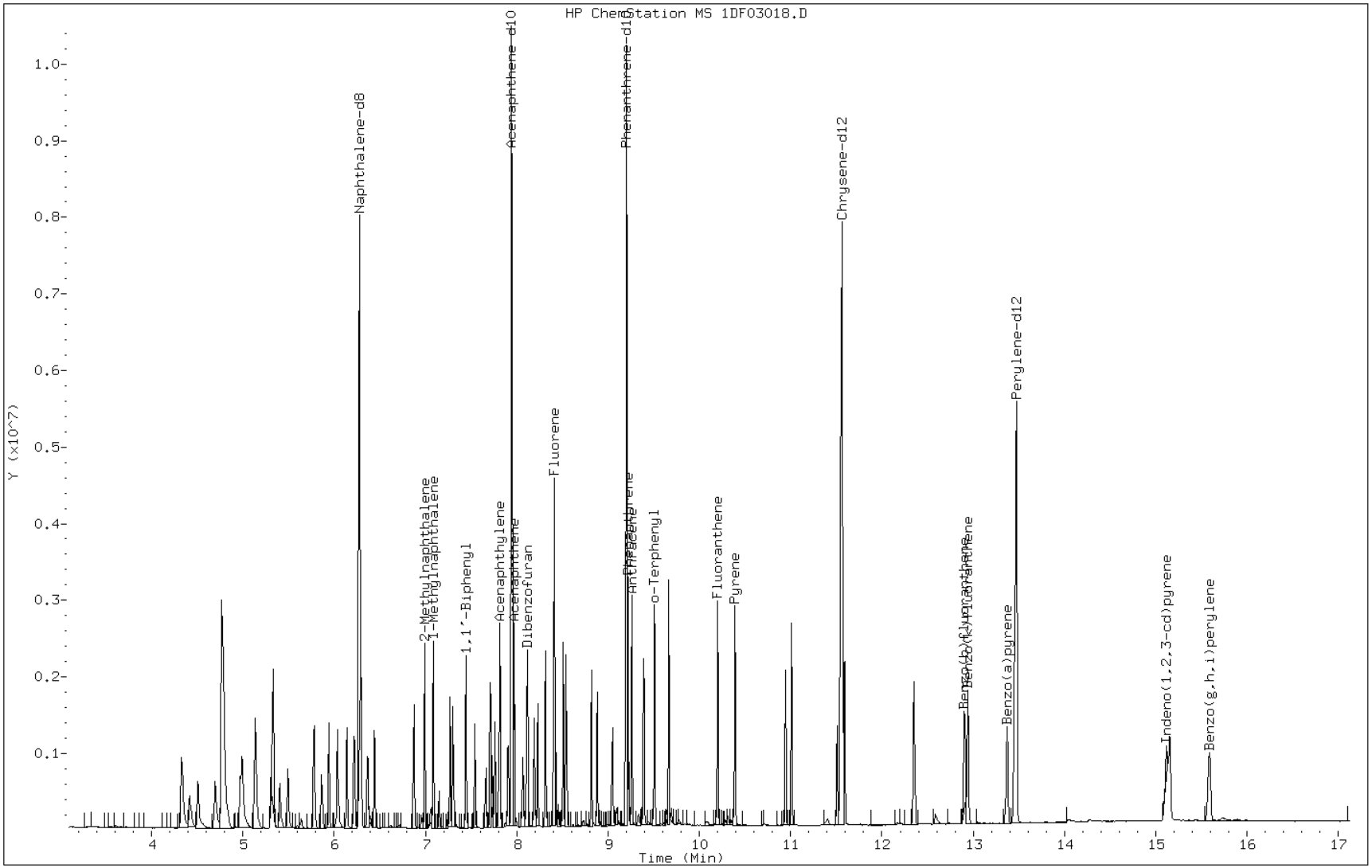
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: 1DF03018.D

Date: 03-JUN-2013 18:48

Client ID: Instrument: BSMSD.i

Sample Info: lcs 660-137975/2-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: | Lab Sample ID: LCS 660-137991/2-A

Matrix: Solid | Lab File ID: 1CF04021.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.06(g) | Date Analyzed: 06/04/2013 16:24

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	584		100	20
208-96-8	Acenaphthylene	628		40	5.0
120-12-7	Anthracene	592		8.4	4.2
56-55-3	Benzo[a]anthracene	612		8.0	3.9
50-32-8	Benzo[a]pyrene	583		10	5.2
205-99-2	Benzo[b]fluoranthene	680		12	6.1
191-24-2	Benzo[g,h,i]perylene	561		20	4.4
207-08-9	Benzo[k]fluoranthene	597		8.0	3.6
218-01-9	Chrysene	572		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	689		20	4.1
206-44-0	Fluoranthene	594		20	4.0
86-73-7	Fluorene	617		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	533		20	7.1
90-12-0	1-Methylnaphthalene	590		40	4.4
91-57-6	2-Methylnaphthalene	576		40	7.1
91-20-3	Naphthalene	499		40	4.4
85-01-8	Phenanthrene	543		8.0	3.9
129-00-0	Pyrene	662		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04021.D
Lab Smp Id: lcs 660-137991/2-a
Inj Date : 04-JUN-2013 16:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-137991/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 21 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.430	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2633436	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1783286	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3441118	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	462781	8.63335	559.5173
*	18 Chrysene-d12	240	8.062	8.068	(1.000)	3508337	40.0000	
*	23 Perylene-d12	264	9.404	9.409	(1.000)	3331650	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	558232	7.51167	486.8227
	3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	357696	8.67764	562.3875
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	360547	8.89021	576.1641
	5 Acenaphthylene	152	5.045	5.045	(0.983)	646814	9.46140	613.1821
	7 Acenaphthene	154	5.151	5.151	(1.003)	376903	8.79166	569.7767
	9 Fluorene	166	5.480	5.480	(1.068)	508007	9.28697	601.8773
	11 Phenanthrene	178	6.116	6.121	(1.002)	830924	8.17315	529.6918
	12 Anthracene	178	6.151	6.157	(1.008)	839239	8.91041	577.4729

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	737180	8.49493	550.5466
15 Fluoranthene	202	6.968	6.968	(1.142)	930224	8.95172	580.1504
16 Pyrene	202	7.139	7.145	(0.885)	944104	9.96563	645.8605
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	891584	9.21623	597.2932
19 Chrysene	228	8.086	8.092	(1.003)	838900	8.61291	558.1923
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	838792	10.2470	664.0988
21 Benzo(k)fluoranthene	252	9.021	9.027	(0.959)	821823	8.98899	582.5658
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	726519	8.77933	568.9779
24 Indeno(1,2,3-cd)pyrene	276	10.786	10.792	(1.147)	701050	8.02596	520.1527(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	738288	10.3822	672.8587(M)
26 Benzo(g,h,i)perylene	276	11.203	11.215	(1.191)	654242	8.45280	547.8161(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CF04021.D

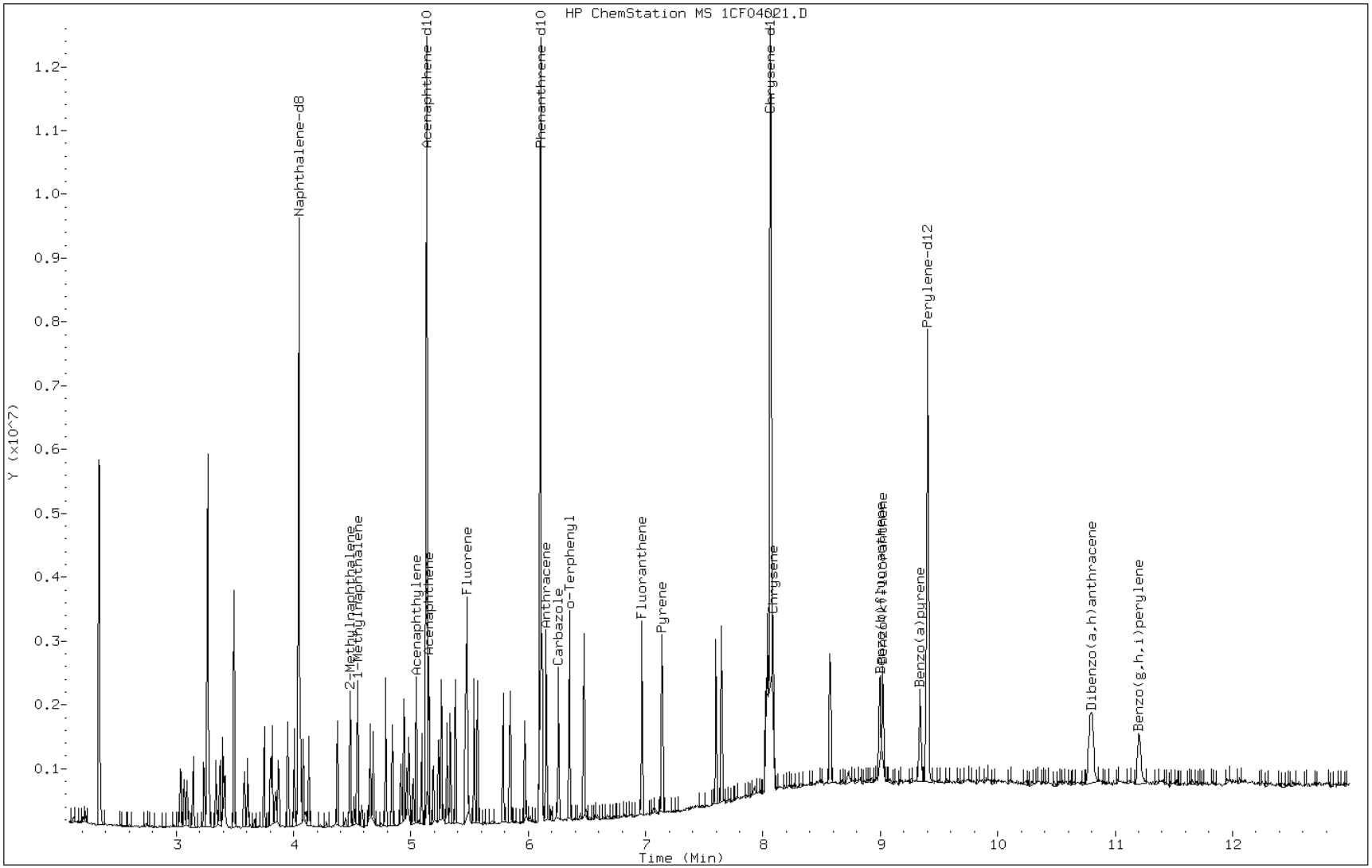
Date: 04-JUN-2013 16:24

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-137991/2-a

Operator: SCC



Manual Integration Report

Data File: 1CF04021.D
Inj. Date and Time: 04-JUN-2013 16:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/05/2013

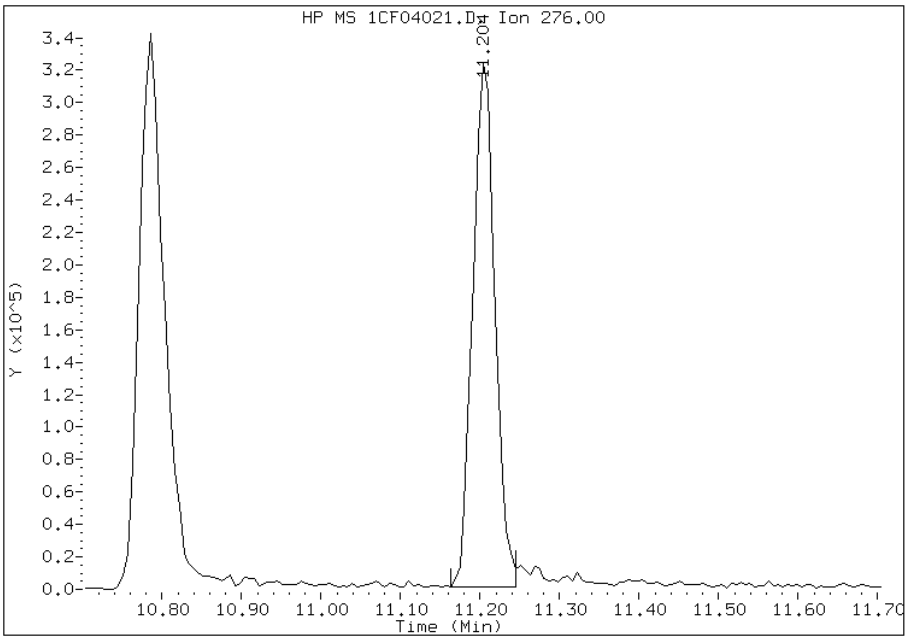
Processing Integration Results

RT: 11.20

Response: 618476

Amount: 8

Conc: 518



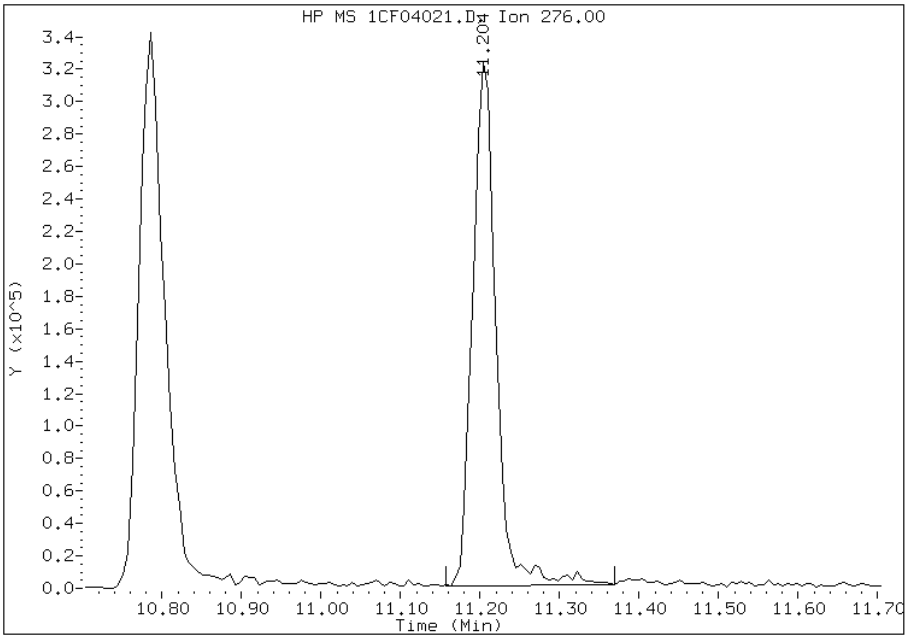
Manual Integration Results

RT: 11.20

Response: 654242

Amount: 8

Conc: 548



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04021.D
Inj. Date and Time: 04-JUN-2013 16:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/05/2013

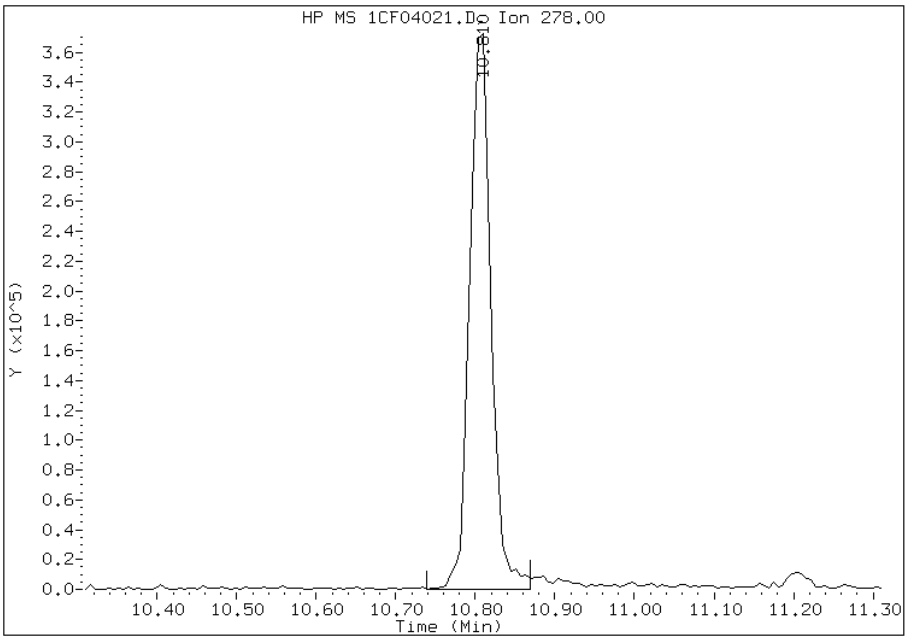
Processing Integration Results

RT: 10.81

Response: 691357

Amount: 10

Conc: 630



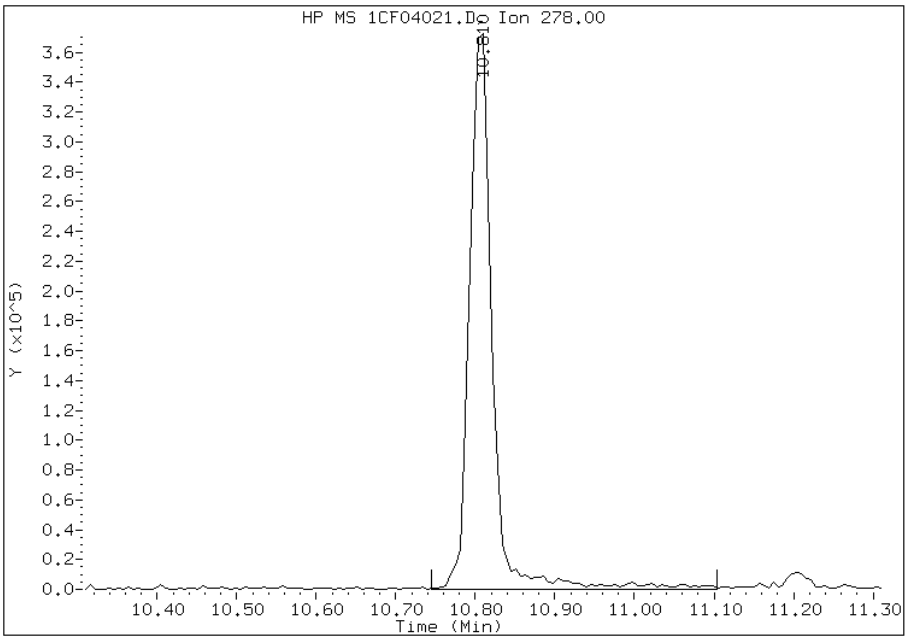
Manual Integration Results

RT: 10.81

Response: 738288

Amount: 10

Conc: 673



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CF04021.D
Inj. Date and Time: 04-JUN-2013 16:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

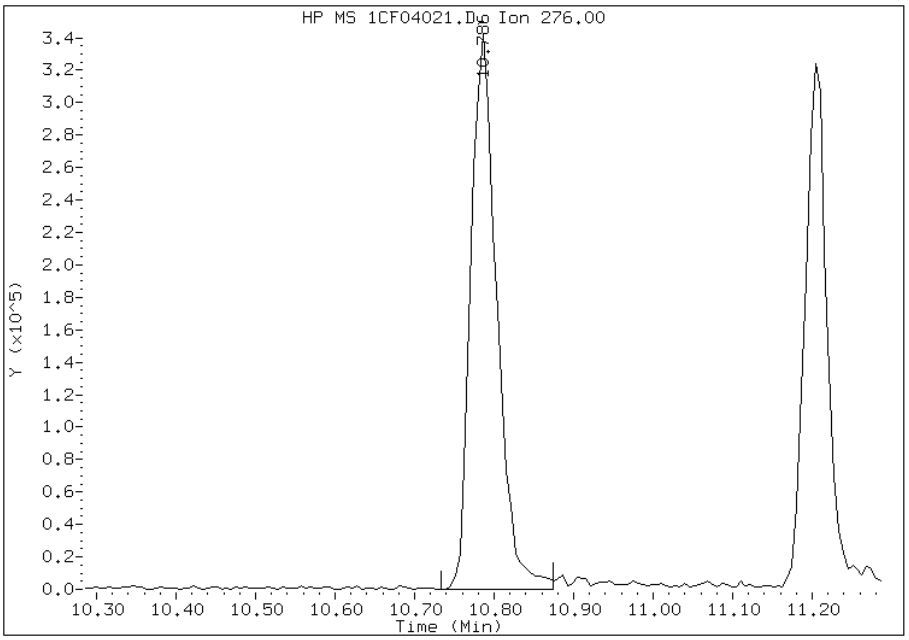
Processing Integration Results

RT: 10.79

Response: 779320

Amount: 9

Conc: 577



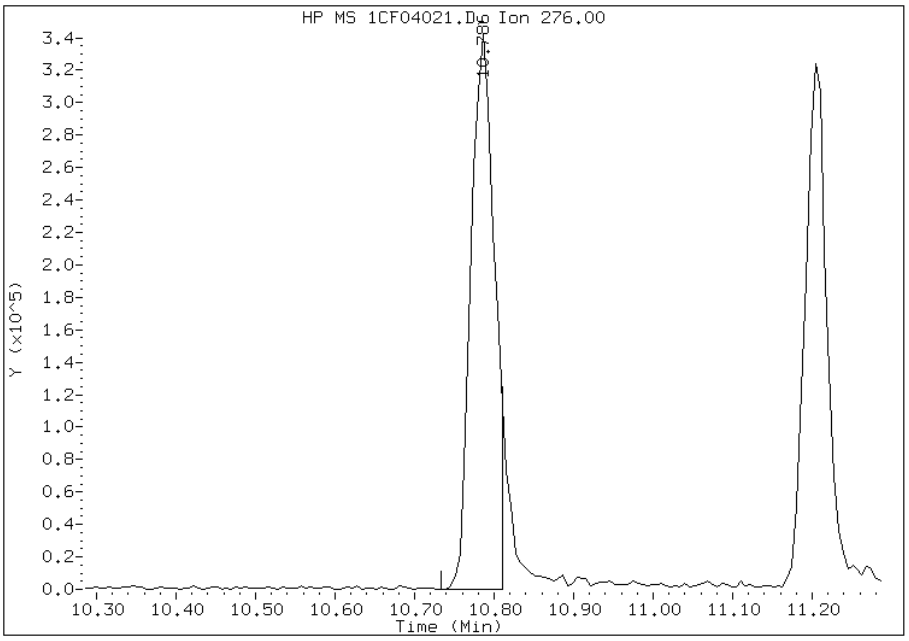
Manual Integration Results

RT: 10.79

Response: 701050

Amount: 8

Conc: 520



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 13:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: | Lab Sample ID: 680-90723-A-24-B MS

Matrix: Solid | Lab File ID: 1CF04035.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.35(g) | Date Analyzed: 06/04/2013 20:41

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

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	374		130	27
208-96-8	Acenaphthylene	300		53	6.6
120-12-7	Anthracene	338		11	5.6
56-55-3	Benzo[a]anthracene	596		11	5.2
50-32-8	Benzo[a]pyrene	467		14	6.9
205-99-2	Benzo[b]fluoranthene	734		16	8.1
191-24-2	Benzo[g,h,i]perylene	380		27	5.8
207-08-9	Benzo[k]fluoranthene	437		11	4.8
218-01-9	Chrysene	623		12	6.0
53-70-3	Dibenz(a,h)anthracene	367		27	5.4
206-44-0	Fluoranthene	646		27	5.3
86-73-7	Fluorene	378		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	335		27	9.4
90-12-0	1-Methylnaphthalene	446		53	5.8
91-57-6	2-Methylnaphthalene	469		53	9.4
91-20-3	Naphthalene	430		53	5.8
85-01-8	Phenanthrene	589		11	5.2
129-00-0	Pyrene	673		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	37		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04035.D
Lab Smp Id: 680-90723-a-24-b ms
Inj Date : 04-JUN-2013 20:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-24-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 35 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	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.045	4.045	(1.000)	2586644	40.0000	
* 6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1766691	40.0000	
* 10 Phenanthrene-d10	188	6.104	6.104	(1.000)	3154823	40.0000	
$ 14 o-Terphenyl	230	6.351	6.351	(1.040)	180645	3.67582	244.4030
* 18 Chrysene-d12	240	8.068	8.068	(1.000)	3223545	40.0000	
* 23 Perylene-d12	264	9.409	9.409	(1.000)	3044054	40.0000	
2 Naphthalene	128	4.057	4.057	(1.003)	354747	4.85989	323.1312
3 2-Methylnaphthalene	142	4.480	4.480	(1.108)	214629	5.30105	352.4635
4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	200594	5.03564	334.8162
5 Acenaphthylene	152	5.045	5.045	(0.983)	229804	3.39308	225.6036(R)
7 Acenaphthene	154	5.151	5.151	(1.003)	179497	4.22628	281.0029
9 Fluorene	166	5.480	5.480	(1.068)	231410	4.27019	283.9219
11 Phenanthrene	178	6.121	6.121	(1.003)	620672	6.65909	442.7583
12 Anthracene	178	6.151	6.157	(1.008)	329939	3.82094	254.0517

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	323405	4.12486	274.2592(R)
15 Fluoranthene	202	6.968	6.968	(1.142)	695303	7.29823	485.2547
16 Pyrene	202	7.145	7.145	(0.886)	661671	7.60142	505.4132
17 Benzo(a)anthracene	228	8.057	8.062	(0.999)	598317	6.73116	447.5507
19 Chrysene	228	8.086	8.092	(1.002)	630285	7.04278	468.2699
20 Benzo(b)fluoranthene	252	9.004	9.004	(0.957)	620423	8.29544	551.5583
21 Benzo(k)fluoranthene	252	9.027	9.027	(0.959)	412533	4.93854	328.3602
22 Benzo(a)pyrene	252	9.345	9.345	(0.993)	395983	5.27784	350.9203
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.147)	295484	3.78779	251.8480(M)
25 Dibenzo(a,h)anthracene	278	10.809	10.815	(1.149)	269320	4.14514	275.6079
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.192)	303621	4.29340	285.4653

QC Flag Legend

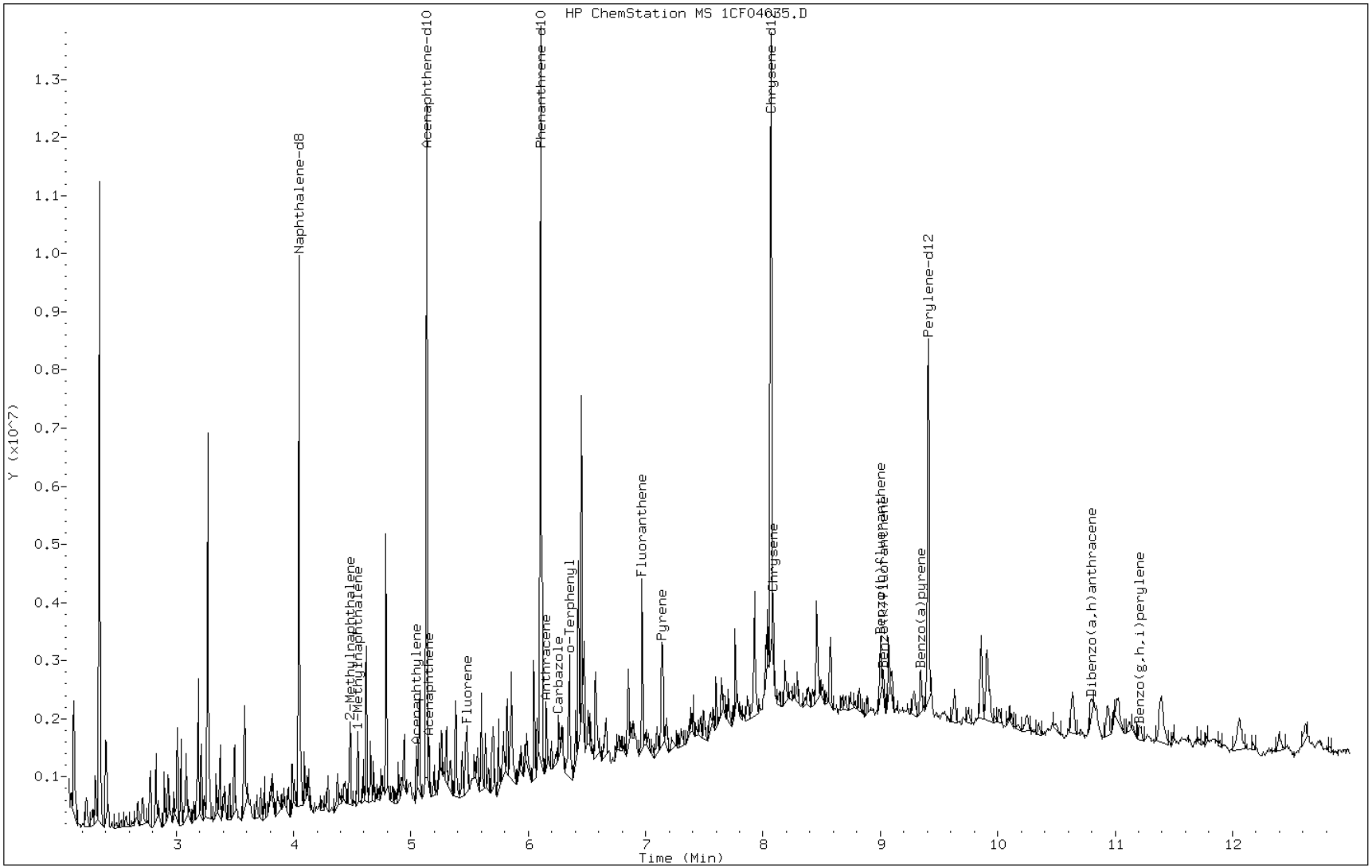
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CF04035.D

Date: 04-JUN-2013 20:41

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-b ms Operator: SCC



Manual Integration Report

Data File: 1CF04035.D
Inj. Date and Time: 04-JUN-2013 20:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

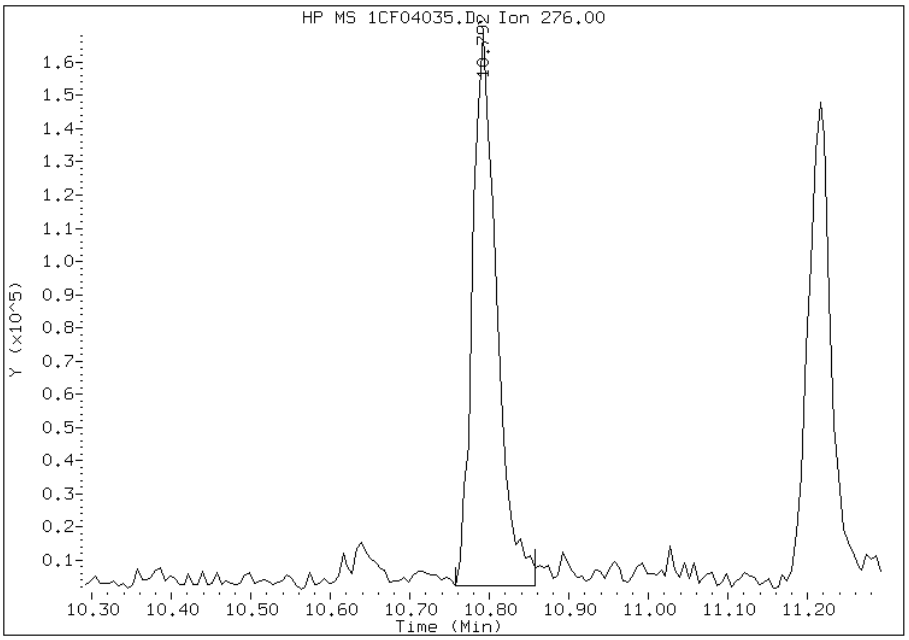
Processing Integration Results

RT: 10.79

Response: 349674

Amount: 4

Conc: 296



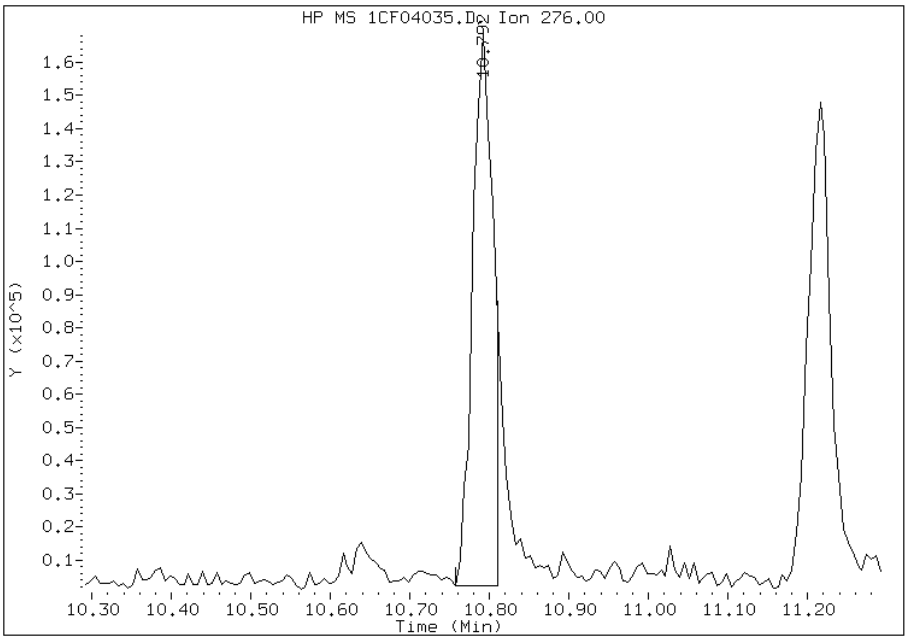
Manual Integration Results

RT: 10.79

Response: 295484

Amount: 4

Conc: 252



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1075A-CS MS | Lab Sample ID: 680-90723-1 MS

Matrix: Solid | Lab File ID: 1DF03024.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:05

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

Sample wt/vol: 15.04(g) | Date Analyzed: 06/03/2013 21:04

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	756		490	99
208-96-8	Acenaphthylene	877		200	25
120-12-7	Anthracene	917		42	21
56-55-3	Benzo[a]anthracene	984		40	19
50-32-8	Benzo[a]pyrene	939		51	26
205-99-2	Benzo[b]fluoranthene	1240		60	30
191-24-2	Benzo[g,h,i]perylene	780		99	22
207-08-9	Benzo[k]fluoranthene	911		40	18
218-01-9	Chrysene	1140		45	22
53-70-3	Dibenz(a,h)anthracene	721		99	20
206-44-0	Fluoranthene	1220		99	20
86-73-7	Fluorene	813		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	798		99	35
90-12-0	1-Methylnaphthalene	839		200	22
91-57-6	2-Methylnaphthalene	904		200	35
91-20-3	Naphthalene	820		200	22
85-01-8	Phenanthrene	1160		40	19
129-00-0	Pyrene	1190		99	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03024.D
Lab Smp Id: 680-90723-a-1-b ms
Inj Date : 03-JUN-2013 21:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90723-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 23 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.279	6.278	(1.000)	3329719	40.0000	
* 7	Acenaphthene-d10	164	7.941	7.946	(1.000)	1830171	40.0000	
* 11	Phenanthrene-d10	188	9.199	9.204	(1.000)	2906466	40.0000	
$ 15	o-Terphenyl	230	9.510	9.509	(1.034)	95110	2.23365	590
* 19	Chrysene-d12	240	11.567	11.566	(1.000)	2640914	40.0000	
* 24	Perylene-d12	264	13.476	13.469	(1.000)	2937416	40.0000	
2	Naphthalene	128	6.296	6.295	(1.003)	204259	2.48755	660
3	2-Methylnaphthalene	142	6.995	6.995	(1.114)	143309	2.74106	730
4	1-Methylnaphthalene	142	7.084	7.089	(1.128)	137016	2.54562	680
5	1,1'-Biphenyl	154	7.430	7.429	(0.936)	5684	0.09192	24(R)
6	Acenaphthylene	152	7.812	7.817	(0.984)	201882	2.66049	710
8	Acenaphthene	154	7.971	7.970	(1.004)	110406	2.29358	610
9	Dibenzofuran	168	8.118	8.117	(1.022)	170217	2.56452	680
10	Fluorene	166	8.411	8.411	(1.059)	134230	2.46451	660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.216	9.221	(1.002)	276086	3.50734	930(R)
13 Anthracene	178	9.258	9.263	(1.006)	212440	2.78147	740
16 Fluoranthene	202	10.198	10.203	(1.109)	297924	3.69954	980(R)
17 Pyrene	202	10.386	10.391	(0.898)	279399	3.61356	960(R)
18 Benzo(a)anthracene	228	11.549	11.548	(0.998)	234028	2.98594	790
20 Chrysene	228	11.590	11.595	(1.002)	243985	3.45702	920(R)
21 Benzo(b)fluoranthene	252	12.906	12.911	(0.958)	275662	3.74598	1000(R)
22 Benzo(k)fluoranthene	252	12.941	12.946	(0.960)	212841	2.76194	730
23 Benzo(a)pyrene	252	13.370	13.375	(0.992)	200256	2.84726	760
25 Indeno(1,2,3-cd)pyrene	276	15.115	15.120	(1.122)	173507	2.42051	640(M)
26 Dibenzo(a,h)anthracene	278	15.151	15.162	(1.124)	148533	2.18771	580
27 Benzo(g,h,i)perylene	276	15.585	15.602	(1.157)	157733	2.36488	630

QC Flag Legend

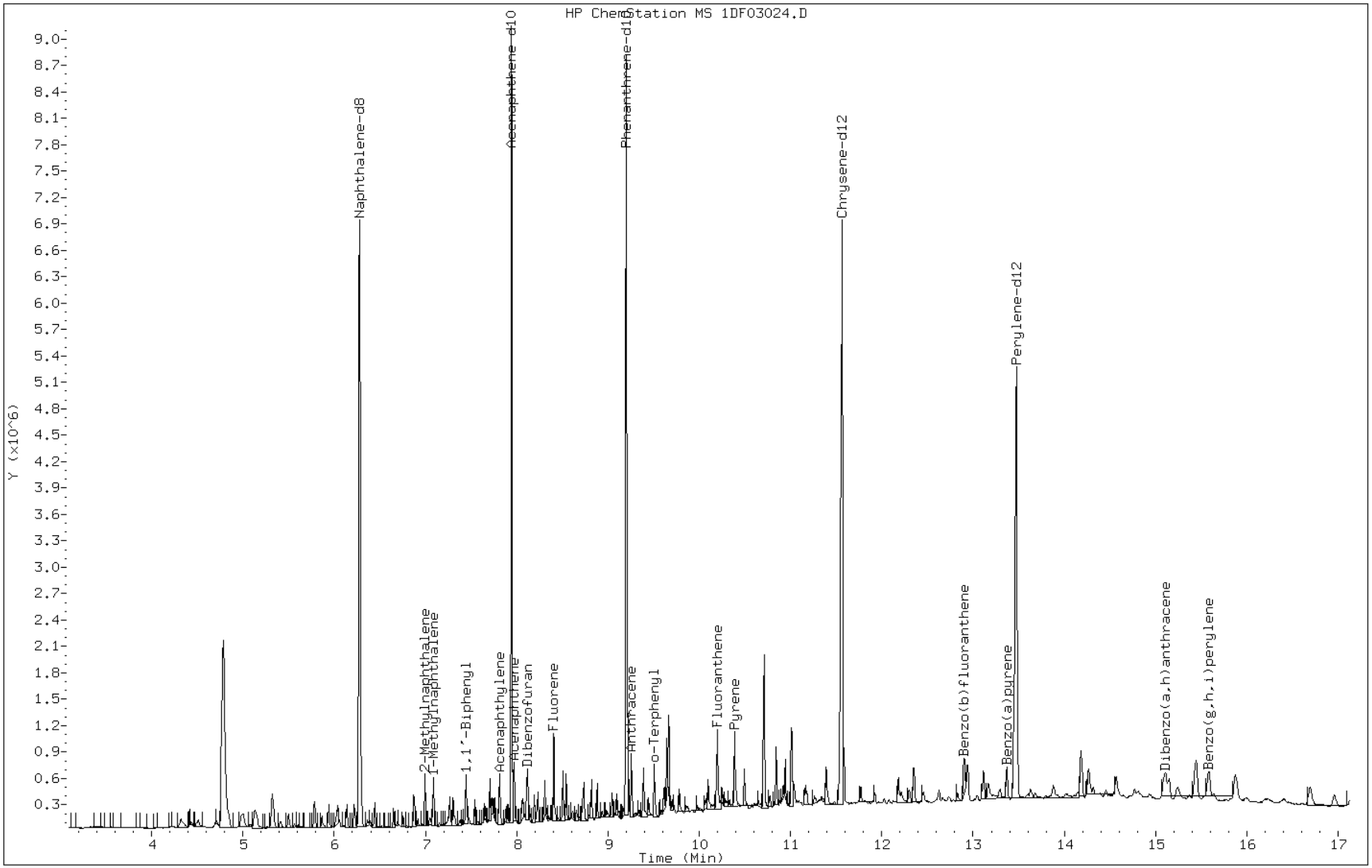
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DF03024.D

Date: 03-JUN-2013 21:04

Client ID: Instrument: BSMSD.i

Sample Info: 680-90723-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1DF03024.D
Inj. Date and Time: 03-JUN-2013 21:04
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

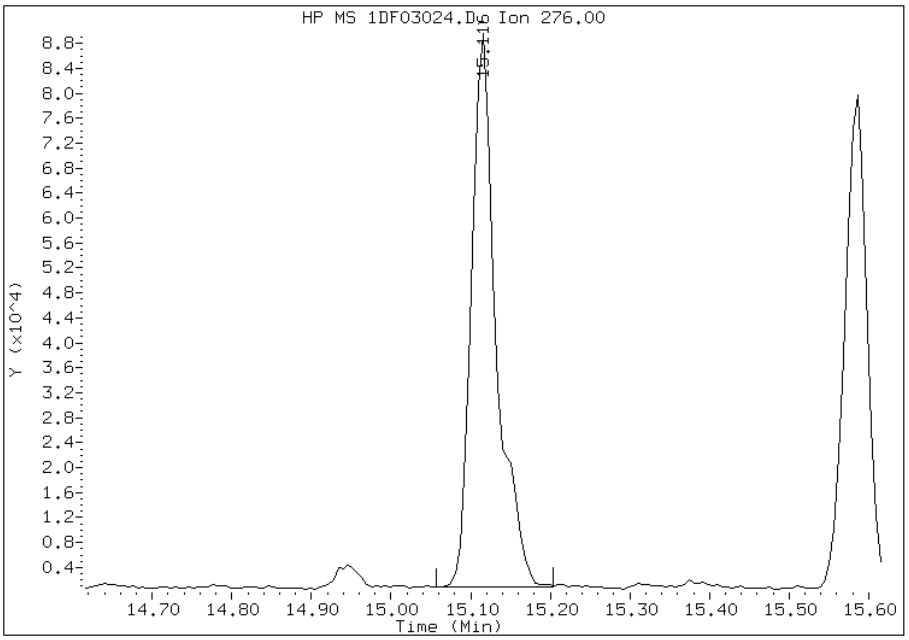
Processing Integration Results

RT: 15.12

Response: 192072

Amount: 3

Conc: 708



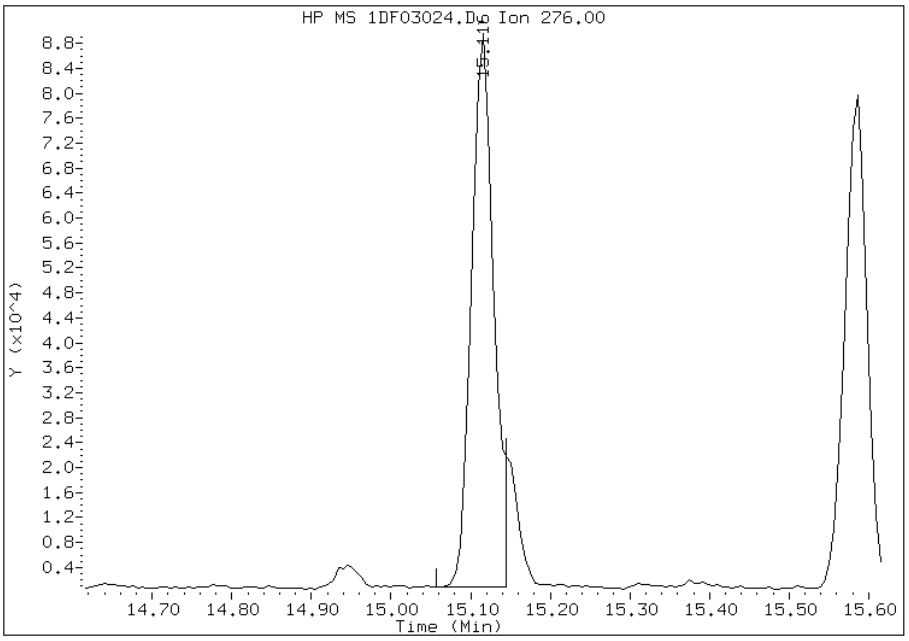
Manual Integration Results

RT: 15.12

Response: 173507

Amount: 2

Conc: 644



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: | Lab Sample ID: 680-90723-A-24-D MSD

Matrix: Solid | Lab File ID: 1CF04036.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 06/03/2013 10:11

Sample wt/vol: 15.35(g) | Date Analyzed: 06/04/2013 20:59

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

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	387		130	27
208-96-8	Acenaphthylene	376		53	6.6
120-12-7	Anthracene	399		11	5.6
56-55-3	Benzo[a]anthracene	678		11	5.2
50-32-8	Benzo[a]pyrene	534		14	6.9
205-99-2	Benzo[b]fluoranthene	862		16	8.1
191-24-2	Benzo[g,h,i]perylene	399		27	5.8
207-08-9	Benzo[k]fluoranthene	511		11	4.8
218-01-9	Chrysene	740		12	6.0
53-70-3	Dibenz(a,h)anthracene	360		27	5.4
206-44-0	Fluoranthene	865		27	5.3
86-73-7	Fluorene	416		27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	376		27	9.4
90-12-0	1-Methylnaphthalene	485		53	5.8
91-57-6	2-Methylnaphthalene	527		53	9.4
91-20-3	Naphthalene	494		53	5.8
85-01-8	Phenanthrene	686		11	5.2
129-00-0	Pyrene	874		27	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\1CF04036.D
Lab Smp Id: 680-90723-a-24-d ms
Inj Date : 04-JUN-2013 20:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-90723-a-24-d msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060413.b\a-bFASTPAHi-m.m
Meth Date : 04-Jun-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D
Als bottle: 36 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	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	4.045	4.045	(1.000)	2605247	40.0000	
*	6 Acenaphthene-d10	164	5.133	5.133	(1.000)	1722476	40.0000	
*	10 Phenanthrene-d10	188	6.104	6.104	(1.000)	2880956	40.0000	
$	14 o-Terphenyl	230	6.351	6.351	(1.040)	189332	4.21882	280.5066
*	18 Chrysene-d12	240	8.068	8.068	(1.000)	2967941	40.0000	
*	23 Perylene-d12	264	9.403	9.409	(1.000)	3072963	40.0000	
	2 Naphthalene	128	4.057	4.057	(1.003)	410114	5.57828	370.8964
	3 2-Methylnaphthalene	142	4.486	4.480	(1.109)	242560	5.94813	395.4875
	4 1-Methylnaphthalene	142	4.545	4.545	(1.124)	219609	5.47362	363.9372
	5 Acenaphthylene	152	5.045	5.045	(0.983)	280727	4.25136	282.6702
	7 Acenaphthene	154	5.151	5.151	(1.003)	180861	4.36771	290.4062
	9 Fluorene	166	5.480	5.480	(1.068)	248487	4.70301	312.7000
	11 Phenanthrene	178	6.121	6.121	(1.003)	659555	7.74893	515.2215
	12 Anthracene	178	6.151	6.157	(1.008)	355162	4.50403	299.4701

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.257	6.257	(1.025)	326074	4.54230	302.0143(R)
15 Fluoranthene	202	6.968	6.968	(1.142)	850155	9.77192	649.7289
16 Pyrene	202	7.145	7.145	(0.886)	791015	9.86996	656.2476
17 Benzo(a)anthracene	228	8.056	8.062	(0.999)	626491	7.65512	508.9841
19 Chrysene	228	8.086	8.092	(1.002)	688351	8.35402	555.4535
20 Benzo(b)fluoranthene	252	8.998	9.004	(0.957)	735384	9.74004	647.6088
21 Benzo(k)fluoranthene	252	9.027	9.027	(0.960)	487138	5.77679	384.0951
22 Benzo(a)pyrene	252	9.339	9.345	(0.993)	457750	6.02908	400.8698
24 Indeno(1,2,3-cd)pyrene	276	10.792	10.792	(1.148)	336453	4.25213	282.7214(M)
25 Dibenzo(a,h)anthracene	278	10.815	10.815	(1.150)	266936	4.06980	270.5984
26 Benzo(g,h,i)perylene	276	11.215	11.215	(1.193)	322109	4.51198	299.9987

QC Flag Legend

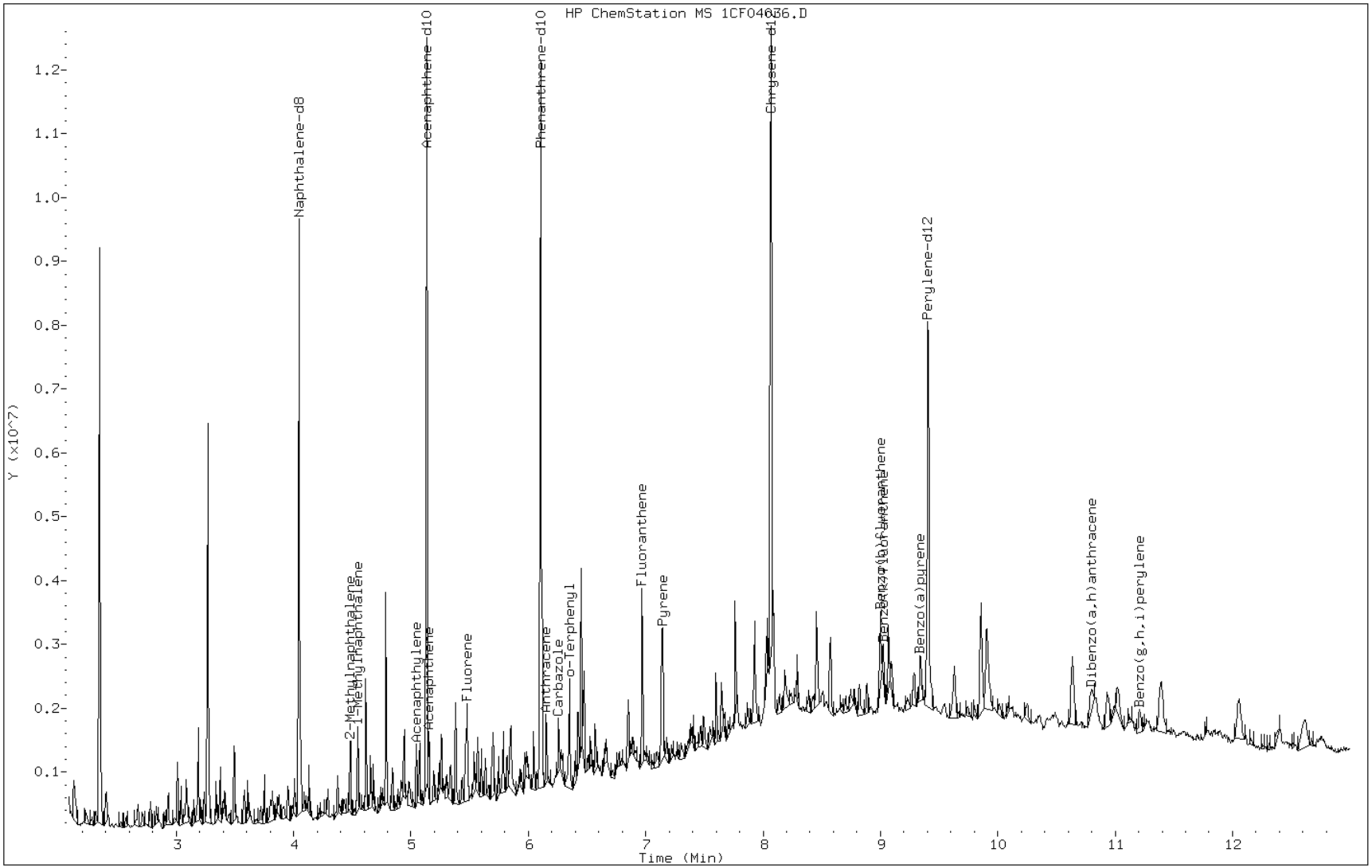
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CF04036.D

Date: 04-JUN-2013 20:59

Client ID: Instrument: BSMC5973.i

Sample Info: 680-90723-a-24-d msd Operator: SCC



Manual Integration Report

Data File: 1CF04036.D
Inj. Date and Time: 04-JUN-2013 20:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

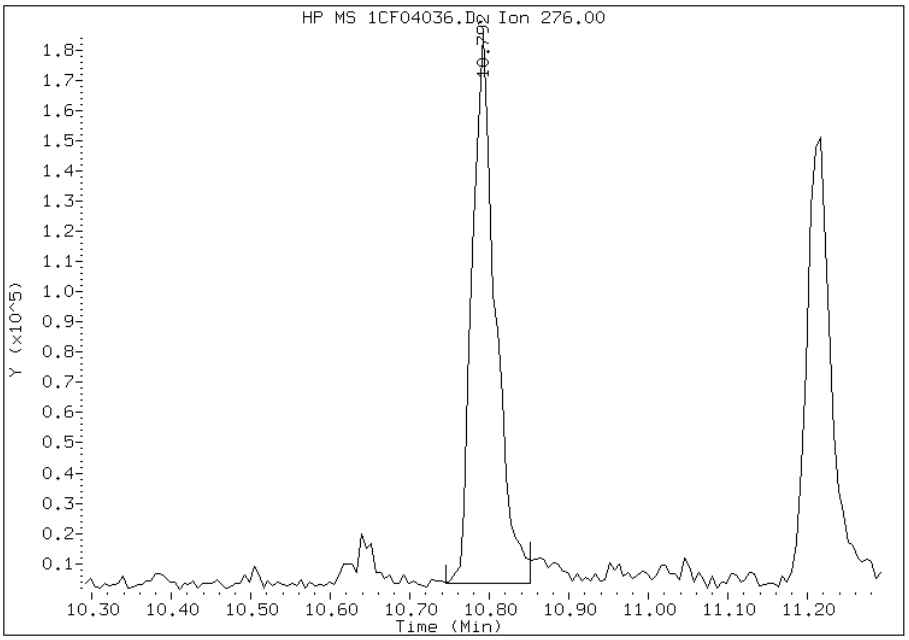
Processing Integration Results

RT: 10.79

Response: 371358

Amount: 5

Conc: 311



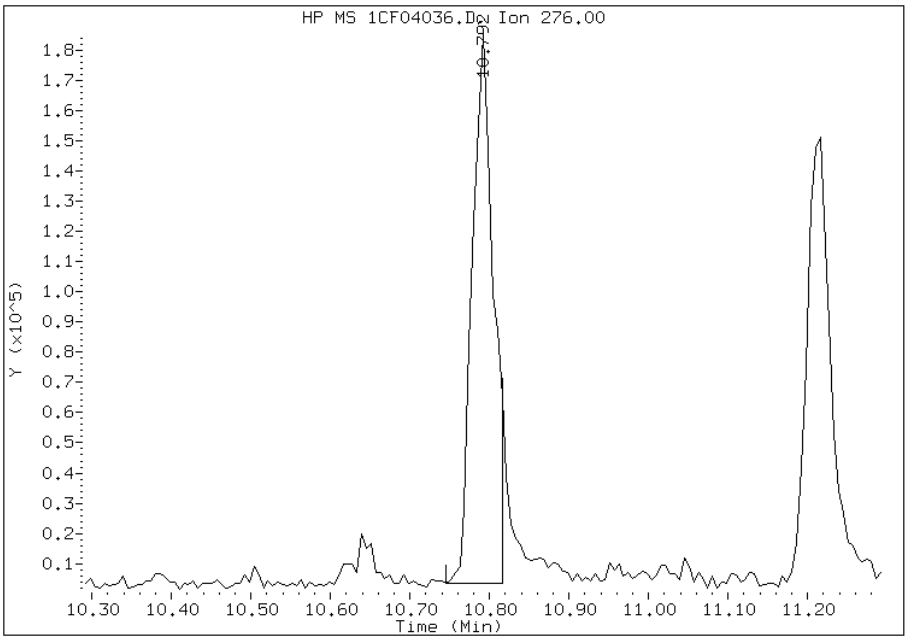
Manual Integration Results

RT: 10.79

Response: 336453

Amount: 4

Conc: 283



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 15:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-90723-1

SDG No.: 68090723-1

Client Sample ID: CV1075A-CS MSD | Lab Sample ID: 680-90723-1 MSD

Matrix: Solid | Lab File ID: 1DF03025.D

Analysis Method: 8270C LL | Date Collected: 05/23/2013 10:05

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

Sample wt/vol: 15.04(g) | Date Analyzed: 06/03/2013 21:26

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

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

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 138011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	767		490	99
208-96-8	Acenaphthylene	869		200	25
120-12-7	Anthracene	910		42	21
56-55-3	Benzo[a]anthracene	964		40	19
50-32-8	Benzo[a]pyrene	942		51	26
205-99-2	Benzo[b]fluoranthene	1190		60	30
191-24-2	Benzo[g,h,i]perylene	792		99	22
207-08-9	Benzo[k]fluoranthene	907		40	18
218-01-9	Chrysene	1090		45	22
53-70-3	Dibenz(a,h)anthracene	729		99	20
206-44-0	Fluoranthene	1130		99	20
86-73-7	Fluorene	812		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	801		99	35
90-12-0	1-Methylnaphthalene	840		200	22
91-57-6	2-Methylnaphthalene	899		200	35
91-20-3	Naphthalene	810		200	22
85-01-8	Phenanthrene	1080		40	19
129-00-0	Pyrene	1090		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\1DF03025.D
Lab Smp Id: 680-90723-a-1-c msd
Inj Date : 03-JUN-2013 21:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90723-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060313.b\dFASTPAHi.m
Meth Date : 03-Jun-2013 11:25 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 24 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.279	6.278	(1.000)	3354388	40.0000	
* 7	Acenaphthene-d10	164	7.942	7.946	(1.000)	1866655	40.0000	
* 11	Phenanthrene-d10	188	9.200	9.204	(1.000)	2984919	40.0000	
$ 15	o-Terphenyl	230	9.511	9.509	(1.034)	96700	2.21130	590
* 19	Chrysene-d12	240	11.567	11.566	(1.000)	2748534	40.0000	
* 24	Perylene-d12	264	13.477	13.469	(1.000)	2860803	40.0000	
2	Naphthalene	128	6.297	6.295	(1.003)	203185	2.45627	650
3	2-Methylnaphthalene	142	6.996	6.995	(1.114)	143610	2.72662	720
4	1-Methylnaphthalene	142	7.084	7.089	(1.128)	138094	2.54678	680
5	1,1'-Biphenyl	154	7.431	7.429	(0.936)	5976	0.09476	25(R)
6	Acenaphthylene	152	7.813	7.817	(0.984)	204039	2.63636	700
8	Acenaphthene	154	7.972	7.970	(1.004)	114177	2.32555	620
9	Dibenzofuran	168	8.119	8.117	(1.022)	174048	2.57098	680
10	Fluorene	166	8.412	8.411	(1.059)	136771	2.46208	650

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.217	9.221	(1.002)	265428	3.28332	870(R)
13 Anthracene	178	9.258	9.263	(1.006)	216458	2.75959	730
16 Fluoranthene	202	10.198	10.203	(1.109)	283020	3.42209	910(R)
17 Pyrene	202	10.386	10.391	(0.898)	267069	3.31884	880(R)
18 Benzo(a)anthracene	228	11.550	11.548	(0.998)	238471	2.92349	780
20 Chrysene	228	11.591	11.595	(1.002)	242849	3.30620	880(R)
21 Benzo(b)fluoranthene	252	12.901	12.911	(0.957)	259355	3.61876	960(R)
22 Benzo(k)fluoranthene	252	12.942	12.946	(0.960)	206458	2.75086	730
23 Benzo(a)pyrene	252	13.371	13.375	(0.992)	195753	2.85740	760
25 Indeno(1,2,3-cd)pyrene	276	15.110	15.120	(1.121)	169661	2.42964	650
26 Dibenzo(a,h)anthracene	278	15.151	15.162	(1.124)	146351	2.21245	590
27 Benzo(g,h,i)perylene	276	15.586	15.602	(1.157)	156068	2.40258	640

QC Flag Legend

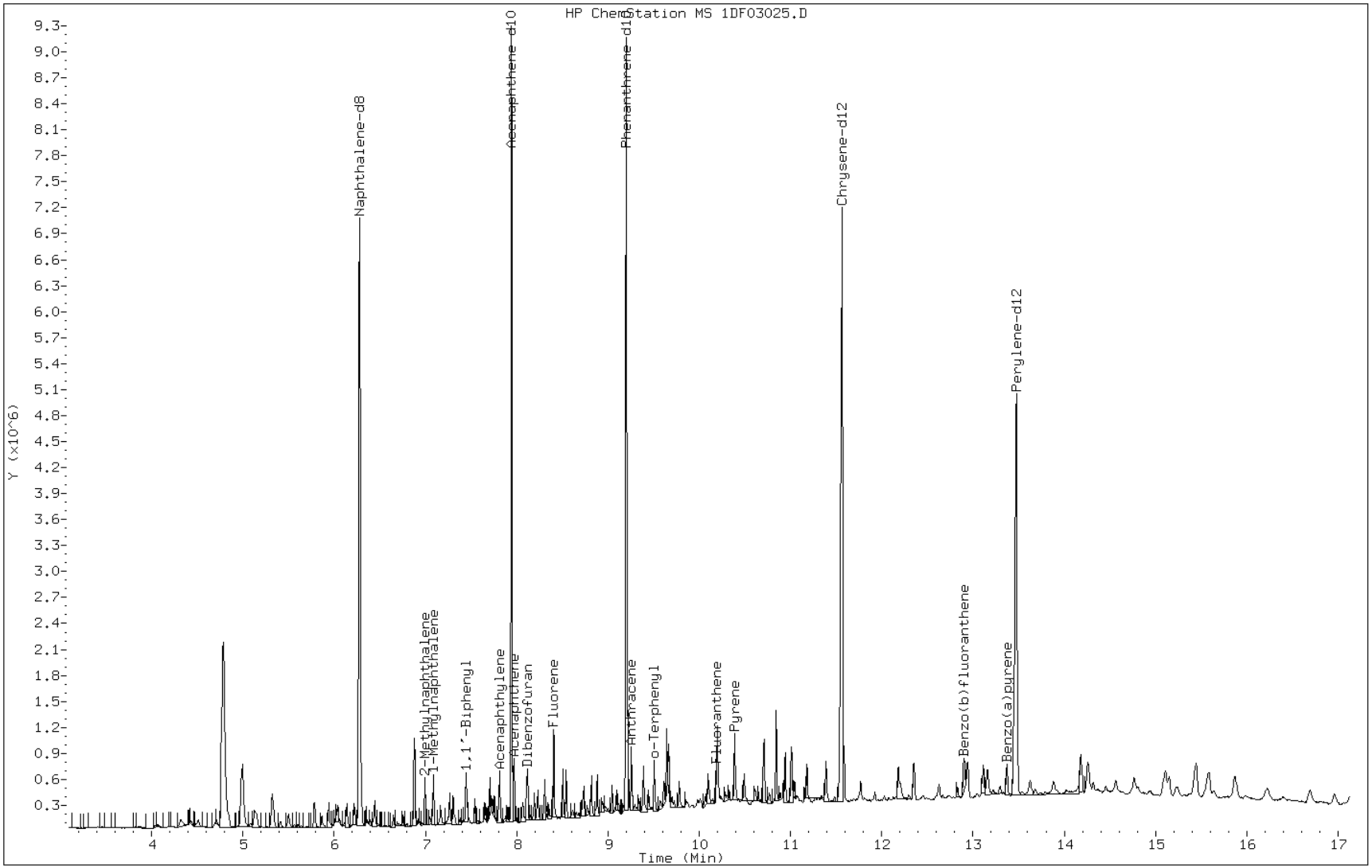
R - Spike/Surrogate failed recovery limits.

Data File: 1DF03025.D

Date: 03-JUN-2013 21:26

Client ID: Instrument: BSMSD.i

Sample Info: 680-90723-a-1-c msd Operator: SCC



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Start Date: 05/22/2013 09:37

Analysis Batch Number: 137704 End Date: 05/22/2013 22:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/22/2013 09:37	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 10:04	1		DB-5MS 250(um)
DFTPP 660-137704/2		05/22/2013 10:24	1	1CE22002.D	DB-5MS 250(um)
CCVIS 660-137704/3		05/22/2013 10:41	1		DB-5MS 250(um)
CCV 660-137704/4		05/22/2013 11:07	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 11:28	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 11:49	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:09	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:30	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 12:51	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:11	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:32	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 15:57	1		DB-5MS 250(um)
IC 660-137704/15		05/22/2013 16:16	1	1CE22014.D	DB-5MS 250(um)
IC 660-137704/16		05/22/2013 16:34	1	1CE22015.D	DB-5MS 250(um)
IC 660-137704/17		05/22/2013 16:52	1	1CE22016.D	DB-5MS 250(um)
IC 660-137704/18		05/22/2013 17:10	1	1CE22017.D	DB-5MS 250(um)
ICIS 660-137704/19		05/22/2013 17:29	1	1CE22018.D	DB-5MS 250(um)
IC 660-137704/20		05/22/2013 17:47	1	1CE22019.D	DB-5MS 250(um)
IC 660-137704/21		05/22/2013 18:05	1	1CE22020.D	DB-5MS 250(um)
ICV 660-137704/22		05/22/2013 18:24	1	1CE22021.D	DB-5MS 250(um)
ZZZZZ		05/22/2013 18:42	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:37	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:32	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 20:50	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:08	4		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:27	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 21:45	1		DB-5MS 250(um)
ZZZZZ		05/22/2013 22:03	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMC5973 Start Date: 06/04/2013 09:41

Analysis Batch Number: 138098 End Date: 06/04/2013 20:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/04/2013 09:41	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 10:02	1		DB-5MS 250(um)
DFTPP 660-138098/2		06/04/2013 10:20	1	1CF04002.D	DB-5MS 250(um)
CCVIS 660-138098/3		06/04/2013 10:50	1	1CF04003.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 11:13	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 11:31	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 11:50	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 12:08	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 12:26	1		DB-5MS 250(um)
680-90723-2	CV1113A-CS	06/04/2013 12:44	4	1CF04009.D	DB-5MS 250(um)
680-90723-3	CV1113B-CS	06/04/2013 13:03	1	1CF04010.D	DB-5MS 250(um)
680-90723-4	CV1163A-CS	06/04/2013 13:21	1	1CF04011.D	DB-5MS 250(um)
680-90723-5	CV1163B-CS	06/04/2013 13:39	4	1CF04012.D	DB-5MS 250(um)
680-90723-6	CV1347A-CS	06/04/2013 13:58	1	1CF04013.D	DB-5MS 250(um)
680-90723-7	CV1347B-CS	06/04/2013 14:16	4	1CF04014.D	DB-5MS 250(um)
680-90723-8	CV1347C-CS	06/04/2013 14:34	4	1CF04015.D	DB-5MS 250(um)
680-90723-9	CV0978A-CS	06/04/2013 14:53	4	1CF04016.D	DB-5MS 250(um)
680-90723-10	CV0978A-CSD	06/04/2013 15:11	4	1CF04017.D	DB-5MS 250(um)
680-90723-11	CV0978B-CS	06/04/2013 15:29	4	1CF04018.D	DB-5MS 250(um)
680-90723-12	CV0978B-CSD	06/04/2013 15:48	4	1CF04019.D	DB-5MS 250(um)
MB 660-137991/1-A		06/04/2013 16:06	1	1CF04020.D	DB-5MS 250(um)
LCS 660-137991/2-A		06/04/2013 16:24	1	1CF04021.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 16:43	1		DB-5MS 250(um)
680-90723-13	CV0978C-CS	06/04/2013 17:01	4	1CF04023.D	DB-5MS 250(um)
680-90723-14	CV0978D-CS	06/04/2013 17:19	4	1CF04024.D	DB-5MS 250(um)
680-90723-15	CV0978E-CS	06/04/2013 17:38	4	1CF04025.D	DB-5MS 250(um)
680-90723-16	CV0978F-CS	06/04/2013 17:56	4	1CF04026.D	DB-5MS 250(um)
680-90723-17	CV0978G-CS	06/04/2013 18:14	4	1CF04027.D	DB-5MS 250(um)
680-90723-18	CV0978H-CS	06/04/2013 18:33	4	1CF04028.D	DB-5MS 250(um)
680-90723-19	CV1008A-CS	06/04/2013 18:51	4	1CF04029.D	DB-5MS 250(um)
680-90723-20	CV1008B-CS	06/04/2013 19:09	4	1CF04030.D	DB-5MS 250(um)
ZZZZZ		06/04/2013 19:27	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 19:46	1		DB-5MS 250(um)
ZZZZZ		06/04/2013 20:04	4		DB-5MS 250(um)
ZZZZZ		06/04/2013 20:22	1		DB-5MS 250(um)
680-90723-A-24-B MS		06/04/2013 20:41	1	1CF04035.D	DB-5MS 250(um)
680-90723-A-24-D MSD		06/04/2013 20:59	1	1CF04036.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMD5973 Start Date: 05/23/2013 10:28

Analysis Batch Number: 137830 End Date: 05/23/2013 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 10:28	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 10:50	1		DB-5MS 250(um)
DFTPP 660-137830/2		05/23/2013 11:20	1	1DE23002.D	DB-5MS 250(um)
IC 660-137830/3		05/23/2013 13:03	1	1DE23003.D	DB-5MS 250(um)
IC 660-137830/4		05/23/2013 13:26	1	1DE23004.D	DB-5MS 250(um)
IC 660-137830/5		05/23/2013 13:48	1	1DE23005.D	DB-5MS 250(um)
IC 660-137830/6		05/23/2013 14:11	1	1DE23006.D	DB-5MS 250(um)
ICIS 660-137830/7		05/23/2013 14:33	1	1DE23007.D	DB-5MS 250(um)
IC 660-137830/8		05/23/2013 14:56	1	1DE23008.D	DB-5MS 250(um)
IC 660-137830/9		05/23/2013 15:19	1	1DE23009.D	DB-5MS 250(um)
ICV 660-137830/10		05/23/2013 15:41	1	1DE23010.D	DB-5MS 250(um)
CCVIS 660-137830/12		05/23/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 19:34	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 20:41	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 21:27	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 22:12	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 22:34	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 22:57	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 23:19	1		DB-5MS 250(um)
ZZZZZ		05/23/2013 23:42	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: BSMD5973 Start Date: 06/03/2013 09:54

Analysis Batch Number: 138011 End Date: 06/03/2013 21:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/03/2013 09:54	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 10:16	1		DB-5MS 250(um)
DFTPP 660-138011/2		06/03/2013 10:41	1	1DF03002.D	DB-5MS 250(um)
CCVIS 660-138011/3		06/03/2013 10:59	1	1DF03003.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 11:29	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 11:59	10		DB-5MS 250(um)
ZZZZZ		06/03/2013 12:21	10		DB-5MS 250(um)
ZZZZZ		06/03/2013 14:40	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:03	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:25	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 15:48	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:10	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:33	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 16:56	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 17:18	20		DB-5MS 250(um)
ZZZZZ		06/03/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 18:03	1		DB-5MS 250(um)
MB 660-137975/1-A		06/03/2013 18:26	1	1DF03017.D	DB-5MS 250(um)
LCS 660-137975/2-A		06/03/2013 18:48	1	1DF03018.D	DB-5MS 250(um)
ZZZZZ		06/03/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:33	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		06/03/2013 20:18	1		DB-5MS 250(um)
680-90723-1	CV1075A-CS	06/03/2013 20:41	4	1DF03023.D	DB-5MS 250(um)
680-90723-1 MS	CV1075A-CS MS	06/03/2013 21:04	4	1DF03024.D	DB-5MS 250(um)
680-90723-1 MSD	CV1075A-CS MSD	06/03/2013 21:26	4	1DF03025.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Batch Number: 137975 Batch Start Date: 06/03/13 06:50 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 06/03/13 13:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182		
MB 660-137975/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-137975/2		3546, 8270C LL		15.43 g	1 mL	1 mL	1 mL		
680-90723-A-1	CV1075A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-90723-A-1 MS	CV1075A-CS	3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL		
680-90723-A-1 MSD	CV1075A-CS	3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL		
680-90723-A-2	CV1113A-CS	3546, 8270C LL	T	15.43 g	1 mL		1 mL		
680-90723-A-3	CV1113B-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-90723-A-4	CV1163A-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-90723-A-5	CV1163B-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-90723-A-6	CV1347A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-90723-A-7	CV1347B-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-90723-A-8	CV1347C-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-90723-A-9	CV0978A-CS	3546, 8270C LL	T	15.43 g	1 mL		1 mL		
680-90723-A-10	CV0978A-CSD	3546, 8270C LL	T	15.35 g	1 mL		1 mL		
680-90723-A-11	CV0978B-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-90723-A-12	CV0978B-CSD	3546, 8270C LL	T	15.06 g	1 mL		1 mL		

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Batch Number: 137975 Batch Start Date: 06/03/13 06:50 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 06/03/13 13:35

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	DCM ACETON __82
Microwave Start Time	8.40/6/3/13
Microwave Stop Time	9.15/6/3/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 19
Person's name who did the prep	AG
SOP Number	TP-EX014
Person who witnessed spiking	THOMAS
Surrogate Lot Number	EXLLSURINT 182
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Batch Number: 137991 Batch Start Date: 06/03/13 10:11 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/03/13 16:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182		
MB 660-137991/1		3546, 8270C LL		15.01 g	1 mL		1 mL		
LCS 660-137991/2		3546, 8270C LL		15.06 g	1 mL	1 mL	1 mL		
680-90723-A-13	CV0978C-CS	3546, 8270C LL	T	15.40 g	1 mL		1 mL		
680-90723-A-14	CV0978D-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-90723-A-15	CV0978E-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-90723-A-16	CV0978F-CS	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-90723-A-17	CV0978G-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-90723-A-18	CV0978H-CS	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-90723-A-19	CV1008A-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-90723-A-20	CV1008B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-90723-A-24 MS		3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		
680-90723-A-24 MSD		3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Batch Number: 137991 Batch Start Date: 06/03/13 10:11 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 06/03/13 16:25

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	Saurel
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	dcm/aceton 84
Microwave Start Time	11:45 6/3/13
Microwave Stop Time	12:20 6/3/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 19
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 182
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90723-1

SDG No.: 68090723-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1075A-CS	680-90723-1
CV1113A-CS	680-90723-2
CV1113B-CS	680-90723-3
CV1163A-CS	680-90723-4
CV1163B-CS	680-90723-5
CV1347A-CS	680-90723-6
CV1347B-CS	680-90723-7
CV1347C-CS	680-90723-8
CV0978A-CS	680-90723-9
CV0978A-CSD	680-90723-10
CV0978B-CS	680-90723-11
CV0978B-CSD	680-90723-12
CV0978C-CS	680-90723-13
CV0978D-CS	680-90723-14
CV0978E-CS	680-90723-15
CV0978F-CS	680-90723-16
CV0978G-CS	680-90723-17
CV0978H-CS	680-90723-18
CV1008A-CS	680-90723-19
CV1008B-CS	680-90723-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90723-1

SDG Number: 68090723-1

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: 680-90723-1

SDG Number: 68090723-1

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.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/29/2013 06:47 End Date: 05/29/2013 06:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
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ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
680-90723-1	1	T	06:47	X																			
680-90723-1 MS	1	T	06:47	X																			
680-90723-1 MSD	1	T	06:47	X																			
680-90723-2	1	T	06:47	X																			
680-90723-3	1	T	06:47	X																			
680-90723-4	1	T	06:47	X																			
680-90723-5	1	T	06:47	X																			
680-90723-6	1	T	06:47	X																			
680-90723-7	1	T	06:47	X																			
680-90723-8	1	T	06:47	X																			
680-90723-9	1	T	06:47	X																			
680-90723-10	1	T	06:47	X																			
680-90723-11	1	T	06:47	X																			
680-90723-12	1	T	06:47	X																			
680-90723-13	1	T	06:47	X																			
680-90723-14	1	T	06:47	X																			
680-90723-15	1	T	06:47	X																			
680-90723-16	1	T	06:47	X																			
680-90723-17	1	T	06:47	X																			
680-90723-18	1	T	06:47	X																			
680-90723-19	1	T	06:47	X																			
680-90723-20	1	T	06:47	X																			
ZZZZZZ			06:47																				
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ZZZZZZ			06:47																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/29/2013 06:47 End Date: 05/29/2013 06:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
ZZZZZZ			06:47																				
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ZZZZZZ			06:47																				
ZZZZZZ			06:47																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90723-1

SDG No.: 68090723-1

Batch Number: 137846 Batch Start Date: 05/29/13 06:47 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-90723-A-1	CV1075A-CS	Moisture	T	12	0 g	4.81 g	3.88 g		
680-90723-A-1 MS	CV1075A-CS	Moisture	T	12	0 g	4.81 g	3.88 g		
680-90723-A-1 MSD	CV1075A-CS	Moisture	T	12	0 g	4.81 g	3.88 g		
680-90723-A-2	CV1113A-CS	Moisture	T	13	0 g	4.61 g	3.64 g		
680-90723-A-3	CV1113B-CS	Moisture	T	14	0 g	4.68 g	3.93 g		
680-90723-A-4	CV1163A-CS	Moisture	T	15	0 g	4.58 g	3.84 g		
680-90723-A-5	CV1163B-CS	Moisture	T	16	0 g	4.27 g	3.41 g		
680-90723-A-6	CV1347A-CS	Moisture	T	17	0 g	4.28 g	3.29 g		
680-90723-A-7	CV1347B-CS	Moisture	T	18	0 g	4.11 g	3.22 g		
680-90723-A-8	CV1347C-CS	Moisture	T	19	0 g	4.44 g	3.47 g		
680-90723-A-9	CV0978A-CS	Moisture	T	20	0 g	4.39 g	3.39 g		
680-90723-A-10	CV0978A-CSD	Moisture	T	21	0 g	4.67 g	3.70 g		
680-90723-A-11	CV0978B-CS	Moisture	T	22	0 g	4.54 g	3.62 g		
680-90723-A-12	CV0978B-CSD	Moisture	T	23	0 g	4.51 g	3.52 g		
680-90723-A-13	CV0978C-CS	Moisture	T	24	0 g	4.25 g	3.02 g		
680-90723-A-14	CV0978D-CS	Moisture	T	25	0 g	4.30 g	2.92 g		
680-90723-A-15	CV0978E-CS	Moisture	T	26	0 g	4.39 g	3.24 g		
680-90723-A-16	CV0978F-CS	Moisture	T	27	0 g	4.99 g	3.91 g		
680-90723-A-17	CV0978G-CS	Moisture	T	28	0 g	4.86 g	3.54 g		
680-90723-A-18	CV0978H-CS	Moisture	T	29	0 g	4.83 g	3.61 g		
680-90723-A-19	CV1008A-CS	Moisture	T	30	0 g	4.88 g	3.55 g		
680-90723-A-20	CV1008B-CS	Moisture	T	31	0 g	4.42 g	3.31 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	5.29.13

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

Serial Number 64256

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: Tampa

Phone: 680-90723
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005148-1356	AL	1	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ◯ DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯ DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS — PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	RCRA 8 Metals								REMARKS
5-23-13	1005	CV 1075A-CS	C		X			X	X								
	0930	CV 1113A-CS	C		X			X									
	0945	CV 1113B-CS	C		X			X									
	1034	CV 1163A-CS	C		X			X									
	1042	CV 1163B-CS	C		X			X									
	0840	CV 1347A-CS	C		X			X									
	0846	CV 1347B-CS	C		X			X	X								
	0850	CV 1347C-CS	C		X			X									
	0945	CV 0978A-CS	C		X			X									
	0945	CV 0978A-CSD	C		X			X									
	1000	CV 0978B-CS	C		X			X									
	1000	CV 0978B-CSD	C		X			X									

680-90723-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Anglin	5-24-13	1100						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
						[signature]	5/29/13	0745

LABORATORY USE ONLY — 2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ◯ NO ◯		680-90723	3.6 C CV-07

Rel Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Serial Number 64257

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am Tampa
Phone:
Fax: 680-90723

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200518-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney		

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

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

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED: LL0944	RUSH 8 Metals	PRESERVATIVE	REMARKS
5-23-13	1015	CV0978C-CS	C		X			X			
	1030	CV0978D-CS	C		X			X			
	1045	CV0978E-CS	C		X			X			
	1100	CV0978F-CS	C		X			X			
	1115	CV0978G-CS	C		X			X	X		
	1130	CV0978H-CS	C		X			X			
	1443	CV1008A-CS	C		X			X			
	1500	CV1008B-CS	C		X			X			
	1323	CV1014A-CS	C		X			X			
	1323	CV1014-A-CSD	C		X			X			
	1334	CV1014B-CS	C		X			X			
	1345	CV1015A-CS	C		X			X			

680-90723-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-24-13	1100						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
							5/29/13	0745

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	5/25/13	945	YES ○ NO ○		680-90723	2.0°C

Rel Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
SDG Number: 68090723-1

Login Number: 90723
List Source: TestAmerica Savannah
List Number: 1
Creator: Snead, Joshua

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
SDG Number: 68090723-1

Login Number: 90723
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/28/13 02:03 PM

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

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

TestAmerica Job ID: 680-90723-1
TestAmerica Sample Delivery Group: 68090723-1
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
6/6/2013 9:53:46 PM
Bernard Kirkland, Project Manager I
(912)354-7858 e.3238
bernard.kirkland@testamericainc.com

Designee for

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

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Job ID: 680-90723-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90723-1

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

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

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

RECEIPT

The samples were received on 05/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1075A-CS (680-90723-1), CV1113A-CS (680-90723-2), CV1113B-CS (680-90723-3), CV1163A-CS (680-90723-4), CV1163B-CS (680-90723-5), CV1347A-CS (680-90723-6), CV1347B-CS (680-90723-7), CV1347C-CS (680-90723-8), CV0978A-CS (680-90723-9), CV0978A-CSD (680-90723-10), CV0978B-CS (680-90723-11), CV0978B-CSD (680-90723-12), CV0978C-CS (680-90723-13), CV0978D-CS (680-90723-14), CV0978E-CS (680-90723-15), CV0978F-CS (680-90723-16), CV0978G-CS (680-90723 17), CV0978H CS (680 90723 18), CV1008A CS (680 90723 19) and CV1008B CS (680 90723 20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and analyzed on 06/03/2013 and 06/04/2013.

Samples CV1075A-CS (680-90723-1)[4X], CV1113A-CS (680-90723-2)[4X], CV1163B-CS (680-90723-5)[4X], CV1347B-CS (680-90723-7)[4X], CV1347C-CS (680-90723-8)[4X], CV0978A-CS (680-90723-9)[4X], CV0978A-CSD (680-90723-10)[4X], CV0978B-CS (680-90723-11)[4X], CV0978B-CSD (680-90723-12)[4X], CV0978C-CS (680-90723-13)[4X], CV0978D-CS (680-90723-14)[4X], CV0978E-CS (680-90723-15)[4X], CV0978F-CS (680-90723-16)[4X], CV0978G-CS (680-90723-17)[4X], CV0978H-CS (680-90723-18)[4X], CV1008A-CS (680-90723-19)[4X] and CV1008B-CS (680-90723-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-90723-24 in batch 660-138098.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90723-1	CV1075A-CS	Solid	05/23/13 10:05	05/25/13 09:45
680-90723-2	CV1113A-CS	Solid	05/23/13 09:30	05/25/13 09:45
680-90723-3	CV1113B-CS	Solid	05/23/13 09:45	05/25/13 09:45
680-90723-4	CV1163A-CS	Solid	05/23/13 10:34	05/25/13 09:45
680-90723-5	CV1163B-CS	Solid	05/23/13 10:42	05/25/13 09:45
680-90723-6	CV1347A-CS	Solid	05/23/13 08:40	05/25/13 09:45
680-90723-7	CV1347B-CS	Solid	05/23/13 08:46	05/25/13 09:45
680-90723-8	CV1347C-CS	Solid	05/23/13 08:50	05/25/13 09:45
680-90723-9	CV0978A-CS	Solid	05/23/13 09:45	05/25/13 09:45
680-90723-10	CV0978A-CSD	Solid	05/23/13 09:45	05/25/13 09:45
680-90723-11	CV0978B-CS	Solid	05/23/13 10:00	05/25/13 09:45
680-90723-12	CV0978B-CSD	Solid	05/23/13 10:00	05/25/13 09:45
680-90723-13	CV0978C-CS	Solid	05/23/13 10:15	05/25/13 09:45
680-90723-14	CV0978D-CS	Solid	05/23/13 10:30	05/25/13 09:45
680-90723-15	CV0978E-CS	Solid	05/23/13 10:45	05/25/13 09:45
680-90723-16	CV0978F-CS	Solid	05/23/13 11:00	05/25/13 09:45
680-90723-17	CV0978G-CS	Solid	05/23/13 11:15	05/25/13 09:45
680-90723-18	CV0978H-CS	Solid	05/23/13 11:30	05/25/13 09:45
680-90723-19	CV1008A-CS	Solid	05/23/13 14:43	05/25/13 09:45
680-90723-20	CV1008B-CS	Solid	05/23/13 15:00	05/25/13 09:45

Method Summary

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

Client Sample ID: CV1075A-CS

Lab Sample ID: 680-90723-1

Date Collected: 05/23/13 10:05
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Acenaphthylene	**76**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Anthracene	**130**		42	21	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[a]anthracene	**370**		40	19	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[a]pyrene	**360**		51	26	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[b]fluoranthene	**610**		60	30	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[g,h,i]perylene	**250**		99	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Benzo[k]fluoranthene	**180**		40	18	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Chrysene	**480**		45	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Dibenz(a,h)anthracene	**94**	**J**	99	20	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Fluoranthene	**670**		99	20	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Fluorene	**33**	**J**	99	20	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Indeno[1,2,3-cd]pyrene	**260**		99	35	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
1-Methylnaphthalene	**220**		200	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
2-Methylnaphthalene	**240**		200	35	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Phenanthrene	**620**	**B**	40	19	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4
Pyrene	**580**		99	18	ug/Kg	☼	06/03/13 06:50	06/03/13 20:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*30 - 130*	*06/03/13 06:50*	*06/03/13 20:41*	*4*

Client Sample ID: CV1113A-CS

Lab Sample ID: 680-90723-2

Date Collected: 05/23/13 09:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Acenaphthylene	**33**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Anthracene	**41**		41	21	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[a]anthracene	**230**		39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[a]pyrene	**240**		51	26	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[b]fluoranthene	**410**		60	30	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[g,h,i]perylene	**250**		98	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Benzo[k]fluoranthene	**120**		39	18	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Chrysene	**260**		44	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Dibenz(a,h)anthracene	**34**	**J**	98	20	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Fluoranthene	**350**		98	20	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Fluorene	98	U	98	20	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Indeno[1,2,3-cd]pyrene	**200**		98	35	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
1-Methylnaphthalene	**89**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
2-Methylnaphthalene	**120**	**J**	200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Naphthalene	**78**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Phenanthrene	**240**	**B**	39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4
Pyrene	**330**		98	18	ug/Kg	☼	06/03/13 06:50	06/04/13 12:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*06/03/13 06:50*	*06/04/13 12:44*	*4*

Client Sample ID: CV1113B-CS

Lab Sample ID: 680-90723-3

Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 84.0

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	☼	06/03/13 06:50	06/04/13 13:03	1
Acenaphthylene	**14**	**J**	47	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Anthracene	**23**		9.8	4.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[a]anthracene	**140**		9.4	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[a]pyrene	**130**		12	6.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[b]fluoranthene	**250**		14	7.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[g,h,i]perylene	**120**		23	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Benzo[k]fluoranthene	**67**		9.4	4.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Chrysene	**190**		11	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Dibenz(a,h)anthracene	**35**		23	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Fluoranthene	**210**		23	4.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Fluorene	**13**	**J**	23	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Indeno[1,2,3-cd]pyrene	**92**		23	8.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
1-Methylnaphthalene	**90**		47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
2-Methylnaphthalene	**110**		47	8.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Naphthalene	**68**		47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Phenanthrene	**170**	**B**	9.4	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1
Pyrene	**200**		23	4.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:03*	*1*

Client Sample ID: CV1163A-CS

Lab Sample ID: 680-90723-4

Date Collected: 05/23/13 10:34
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 83.8

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	24	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Acenaphthylene	**20**	**J**	47	5.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Anthracene	**30**		9.9	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[a]anthracene	**180**		9.5	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[a]pyrene	**170**		12	6.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[b]fluoranthene	**290**		14	7.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[g,h,i]perylene	**140**		24	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Benzo[k]fluoranthene	**82**		9.5	4.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Chrysene	**220**		11	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Dibenz(a,h)anthracene	**41**		24	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Fluoranthene	**300**		24	4.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Fluorene	**14**	**J**	24	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Indeno[1,2,3-cd]pyrene	**120**		24	8.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
1-Methylnaphthalene	**58**		47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
2-Methylnaphthalene	**55**		47	8.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Naphthalene	**46**	**J**	47	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Phenanthrene	**180**	**B**	9.5	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1
Pyrene	**290**		24	4.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:21*	*1*

Client Sample ID: CV1163B-CS

Lab Sample ID: 680-90723-5

Date Collected: 05/23/13 10:42
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Acenaphthylene	**38**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Anthracene	**38**	**J**	42	21	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[a]anthracene	**330**		40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[a]pyrene	**310**		52	26	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[b]fluoranthene	**460**		61	30	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[g,h,i]perylene	**260**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Benzo[k]fluoranthene	**130**		40	18	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Chrysene	**400**		45	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Dibenz(a,h)anthracene	**80**	**J**	100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Fluoranthene	**390**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Fluorene	100	U	100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Indeno[1,2,3-cd]pyrene	**220**		100	35	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
1-Methylnaphthalene	**130**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
2-Methylnaphthalene	**160**	**J**	200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Naphthalene	**110**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Phenanthrene	**290**	**B**	40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4
Pyrene	**410**		100	18	ug/Kg	☼	06/03/13 06:50	06/04/13 13:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:39*	*4*

Client Sample ID: CV1347A-CS

Lab Sample ID: 680-90723-6

Date Collected: 05/23/13 08:40
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**140**		130	26	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Acenaphthylene	**150**		52	6.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Anthracene	**510**		11	5.4	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[a]anthracene	**1800**		10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[a]pyrene	**1500**		13	6.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[b]fluoranthene	**2500**		16	7.9	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[g,h,i]perylene	**950**		26	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Benzo[k]fluoranthene	**1000**		10	4.6	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Chrysene	**2100**		12	5.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Dibenz(a,h)anthracene	**360**		26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Fluoranthene	**3200**		26	5.2	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Fluorene	**140**		26	5.3	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Indeno[1,2,3-cd]pyrene	**760**		26	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
1-Methylnaphthalene	**570**		52	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
2-Methylnaphthalene	**620**		52	9.1	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Naphthalene	**480**		52	5.7	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Phenanthrene	**2100**	**B**	10	5.0	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1
Pyrene	**3100**		26	4.8	ug/Kg	☼	06/03/13 06:50	06/04/13 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*06/03/13 06:50*	*06/04/13 13:58*	*1*

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV1347B-CS

Lab Sample ID: 680-90723-7
Date Collected: 05/23/13 08:46
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Acenaphthylene	**830**		200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Anthracene	**900**		43	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[a]anthracene	**1700**		41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[a]pyrene	**2100**		53	26	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[b]fluoranthene	**5800**		62	31	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[g,h,i]perylene	**2300**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Benzo[k]fluoranthene	**2000**		41	18	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Chrysene	**2800**		46	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Dibenz(a,h)anthracene	**680**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Fluoranthene	**2000**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Fluorene	**140**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Indeno[1,2,3-cd]pyrene	**1900**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
1-Methylnaphthalene	**1200**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
2-Methylnaphthalene	**1300**		200	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Naphthalene	**650**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Phenanthrene	**1600**	**B**	41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4
Pyrene	**2500**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 14:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*06/03/13 06:50*	*06/04/13 14:16*	*4*

Client Sample ID: CV1347C-CS

Lab Sample ID: 680-90723-8
Date Collected: 05/23/13 08:50
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Acenaphthylene	**1900**		210	26	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Anthracene	**1600**		43	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[a]anthracene	**4400**		41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[a]pyrene	**4700**		53	27	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[b]fluoranthene	**12000**		63	31	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[g,h,i]perylene	**3700**		100	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Benzo[k]fluoranthene	**4900**		41	18	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Chrysene	**5700**		46	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Dibenz(a,h)anthracene	**1100**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Fluoranthene	**3100**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Fluorene	**110**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Indeno[1,2,3-cd]pyrene	**3100**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
1-Methylnaphthalene	**280**		210	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
2-Methylnaphthalene	**280**		210	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Naphthalene	**310**		210	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Phenanthrene	**670**	**B**	41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4
Pyrene	**5000**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 14:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*30 - 130*	*06/03/13 06:50*	*06/04/13 14:34*	*4*

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV0978A-CS

Lab Sample ID: 680-90723-9
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.2

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	100	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Acenaphthylene	**110**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Anthracene	**140**		42	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[a]anthracene	**770**		40	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[a]pyrene	**810**		52	26	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[b]fluoranthene	**1500**		61	31	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[g,h,i]perylene	**690**		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Benzo[k]fluoranthene	**430**		40	18	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Chrysene	**1000**		45	23	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Dibenz(a,h)anthracene	**220**		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Fluoranthene	**1300**		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Fluorene	**44**	**J**	100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Indeno[1,2,3-cd]pyrene	**470**		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
1-Methylnaphthalene	**220**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
2-Methylnaphthalene	**270**		200	36	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Naphthalene	**200**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Phenanthrene	**630**	**B**	40	20	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4
Pyrene	**1400**		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 14:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*06/03/13 06:50*	*06/04/13 14:53*	*4*

Client Sample ID: CV0978A-CSD

Lab Sample ID: 680-90723-10
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Acenaphthylene	**100**	**J**	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Anthracene	**130**		41	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[a]anthracene	**670**		39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[a]pyrene	**730**		51	26	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[b]fluoranthene	**1300**		60	30	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[g,h,i]perylene	**750**		99	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Benzo[k]fluoranthene	**620**		39	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Chrysene	**960**		44	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Dibenz(a,h)anthracene	**230**		99	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Fluoranthene	**1400**		99	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Fluorene	**49**	**J**	99	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Indeno[1,2,3-cd]pyrene	**590**		99	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
1-Methylnaphthalene	**200**		200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
2-Methylnaphthalene	**240**		200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Phenanthrene	**860**	**B**	39	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4
Pyrene	**1300**		99	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*06/03/13 06:50*	*06/04/13 15:11*	*4*

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV0978B-CS

Lab Sample ID: 680-90723-11
Date Collected: 05/23/13 10:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.7

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	100	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Acenaphthylene	67	J	200	25	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Anthracene	190		42	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[a]anthracene	1100		40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[a]pyrene	1000		52	26	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[b]fluoranthene	1900		61	30	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[g,h,i]perylene	820		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Benzo[k]fluoranthene	610		40	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Chrysene	1300		45	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Dibenz(a,h)anthracene	240		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Fluoranthene	2400		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Fluorene	52	J	100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Indeno[1,2,3-cd]pyrene	630		100	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
1-Methylnaphthalene	82	J	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
2-Methylnaphthalene	130	J	200	35	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Naphthalene	77	J	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Phenanthrene	900	B	40	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4
Pyrene	2100		100	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:29	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*06/03/13 06:50*	*06/04/13 15:29*	*4*

Client Sample ID: CV0978B-CSD

Lab Sample ID: 680-90723-12
Date Collected: 05/23/13 10:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Acenaphthylene	83	J	200	26	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Anthracene	140		43	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[a]anthracene	1100		41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[a]pyrene	1100		53	27	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[b]fluoranthene	2000		62	31	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[g,h,i]perylene	810		100	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Benzo[k]fluoranthene	670		41	18	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Chrysene	1400		46	23	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Dibenz(a,h)anthracene	250		100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Fluoranthene	2200		100	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Fluorene	48	J	100	21	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Indeno[1,2,3-cd]pyrene	670		100	36	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
2-Methylnaphthalene	150	J	200	36	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Naphthalene	130	J	200	22	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Phenanthrene	930	B	41	20	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4
Pyrene	1900		100	19	ug/Kg	☼	06/03/13 06:50	06/04/13 15:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*06/03/13 06:50*	*06/04/13 15:48*	*4*

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV0978C-CS

Lab Sample ID: 680-90723-13
Date Collected: 05/23/13 10:15
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 71.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	550	110	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Acenaphthylene	95	J	220	27	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Anthracene	220		46	23	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[a]anthracene	1200		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[a]pyrene	1000		57	29	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[b]fluoranthene	1800		67	33	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[g,h,i]perylene	830		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Benzo[k]fluoranthene	590		44	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Chrysene	1500		49	25	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Dibenz(a,h)anthracene	190		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Fluoranthene	1900		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Fluorene	130		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Indeno[1,2,3-cd]pyrene	560		110	39	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
1-Methylnaphthalene	1300		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
2-Methylnaphthalene	1400		220	39	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Naphthalene	620		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Phenanthrene	1500		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4
Pyrene	1900		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:01	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:01*	*4*

Client Sample ID: CV0978D-CS

Lab Sample ID: 680-90723-14
Date Collected: 05/23/13 10:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 67.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Acenaphthylene	63	J	240	29	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Anthracene	140		50	25	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[a]anthracene	900		47	23	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[a]pyrene	880		61	31	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[b]fluoranthene	1600		72	36	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[g,h,i]perylene	710		120	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Benzo[k]fluoranthene	500		47	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Chrysene	1200		53	27	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Dibenz(a,h)anthracene	210		120	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Fluoranthene	1400		120	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Fluorene	68	J	120	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Indeno[1,2,3-cd]pyrene	490		120	42	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
1-Methylnaphthalene	430		240	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
2-Methylnaphthalene	510		240	42	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Naphthalene	390		240	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Phenanthrene	950		47	23	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4
Pyrene	1400		120	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:19*	*4*

Client Sample ID: CV0978E-CS

Lab Sample ID: 680-90723-15

Date Collected: 05/23/13 10:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 73.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Acenaphthylene	**64**	**J**	210	27	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Anthracene	**200**		45	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[a]anthracene	**1300**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[a]pyrene	**1300**		56	28	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[b]fluoranthene	**2400**		65	33	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[g,h,i]perylene	**940**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Benzo[k]fluoranthene	**790**		43	19	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Chrysene	**1600**		48	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Dibenz(a,h)anthracene	**310**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Fluoranthene	**2600**		110	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Fluorene	**68**	**J**	110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Indeno[1,2,3-cd]pyrene	**800**		110	38	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
1-Methylnaphthalene	**200**	**J**	210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
2-Methylnaphthalene	**250**		210	38	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Naphthalene	**160**	**J**	210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Phenanthrene	**1200**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4
Pyrene	**2400**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:38*	*4*

Client Sample ID: CV0978F-CS

Lab Sample ID: 680-90723-16

Date Collected: 05/23/13 11:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Acenaphthylene	**75**	**J**	200	25	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Anthracene	**110**		42	21	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[a]anthracene	**690**		40	19	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[a]pyrene	**660**		52	26	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[b]fluoranthene	**1400**		61	30	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[g,h,i]perylene	**700**		99	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Benzo[k]fluoranthene	**300**		40	18	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Chrysene	**950**		45	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Dibenz(a,h)anthracene	**160**		99	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Fluoranthene	**1100**		99	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Fluorene	**50**	**J**	99	20	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Indeno[1,2,3-cd]pyrene	**510**		99	35	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
1-Methylnaphthalene	**390**		200	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
2-Methylnaphthalene	**460**		200	35	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Naphthalene	**320**		200	22	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Phenanthrene	**790**		40	19	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4
Pyrene	**1100**		99	18	ug/Kg	☼	06/03/13 10:11	06/04/13 17:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*06/03/13 10:11*	*06/04/13 17:56*	*4*

Client Sample ID: CV0978G-CS

Lab Sample ID: 680-90723-17

Date Collected: 05/23/13 11:15
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 72.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Acenaphthylene	**64**	**J**	220	28	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Anthracene	**140**		46	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[a]anthracene	**890**		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[a]pyrene	**1000**		57	29	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[b]fluoranthene	**1800**		67	34	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[g,h,i]perylene	**1100**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Benzo[k]fluoranthene	**680**		44	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Chrysene	**1300**		50	25	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Dibenz(a,h)anthracene	**240**		110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Fluoranthene	**1500**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Fluorene	**83**	**J**	110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Indeno[1,2,3-cd]pyrene	**580**		110	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
1-Methylnaphthalene	**470**		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
2-Methylnaphthalene	**530**		220	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Naphthalene	**380**		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Phenanthrene	**920**		44	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4
Pyrene	**1600**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:14	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*30 - 130*	*06/03/13 10:11*	*06/04/13 18:14*	*4*

Client Sample ID: CV0978H-CS

Lab Sample ID: 680-90723-18

Date Collected: 05/23/13 11:30
Matrix: Solid
Date Received: 05/25/13 09:45
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	530	U	530	110	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Acenaphthylene	**52**	**J**	210	26	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Anthracene	**83**		44	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[a]anthracene	**580**		42	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[a]pyrene	**660**		55	28	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[b]fluoranthene	**1100**		65	32	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[g,h,i]perylene	**550**		110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Benzo[k]fluoranthene	**390**		42	19	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Chrysene	**800**		48	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Dibenz(a,h)anthracene	**160**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Fluoranthene	**870**		110	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Fluorene	**59**	**J**	110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Indeno[1,2,3-cd]pyrene	**420**		110	38	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
1-Methylnaphthalene	**280**		210	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
2-Methylnaphthalene	**350**		210	38	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Naphthalene	**200**	**J**	210	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Phenanthrene	**580**		42	21	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4
Pyrene	**890**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*06/03/13 10:11*	*06/04/13 18:33*	*4*

Client Sample ID: CV1008A-CS

Lab Sample ID: 680-90723-19

Date Collected: 05/23/13 14:43
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Acenaphthylene	**57**	**J**	220	28	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Anthracene	**84**		46	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[a]anthracene	**710**		44	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[a]pyrene	**990**		57	29	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[b]fluoranthene	**930**		67	34	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[g,h,i]perylene	**950**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Benzo[k]fluoranthene	**250**		44	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Chrysene	**1200**		50	25	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Dibenz(a,h)anthracene	**180**		110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Fluoranthene	**610**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Fluorene	**39**	**J**	110	23	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Indeno[1,2,3-cd]pyrene	**380**		110	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
1-Methylnaphthalene	**220**		220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
2-Methylnaphthalene	**240**		220	39	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Naphthalene	**150**	**J**	220	24	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Phenanthrene	**520**		44	22	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4
Pyrene	**890**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 18:51	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*06/03/13 10:11*	*06/04/13 18:51*	*4*

Client Sample ID: CV1008B-CS

Lab Sample ID: 680-90723-20

Date Collected: 05/23/13 15:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Acenaphthylene	**54**	**J**	210	27	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Anthracene	**59**		45	23	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[a]anthracene	**400**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[a]pyrene	**410**		56	28	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[b]fluoranthene	**640**		65	33	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[g,h,i]perylene	**330**		110	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Benzo[k]fluoranthene	**180**		43	19	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Chrysene	**660**		48	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Dibenz(a,h)anthracene	**110**		110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Fluoranthene	**400**		110	21	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Fluorene	**48**	**J**	110	22	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Indeno[1,2,3-cd]pyrene	**290**		110	38	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
1-Methylnaphthalene	**230**		210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
2-Methylnaphthalene	**340**		210	38	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Naphthalene	**180**	**J**	210	24	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Phenanthrene	**460**		43	21	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4
Pyrene	**440**		110	20	ug/Kg	☼	06/03/13 10:11	06/04/13 19:09	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*06/03/13 10:11*	*06/04/13 19:09*	*4*

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

Lab Sample ID: MB 660-137975/1-A
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Fluorene	20	U	20	4.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Naphthalene	40	U	40	4.4	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Phenanthrene	6.92	J	8.0	3.9	ug/Kg		06/03/13 06:50	06/03/13 18:26	1
Pyrene	20	U	20	3.7	ug/Kg		06/03/13 06:50	06/03/13 18:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*30 - 130*	*06/03/13 06:50*	*06/03/13 18:26*	*1*

Lab Sample ID: LCS 660-137975/2-A
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	648	608		ug/Kg		94	39 - 130
Acenaphthylene	648	654		ug/Kg		101	38 - 130
Anthracene	648	676		ug/Kg		104	37 - 130
Benzo[a]anthracene	648	622		ug/Kg		96	40 - 130
Benzo[a]pyrene	648	602		ug/Kg		93	49 - 130
Benzo[b]fluoranthene	648	684		ug/Kg		105	37 - 130
Benzo[g,h,i]perylene	648	599		ug/Kg		92	32 - 130
Benzo[k]fluoranthene	648	629		ug/Kg		97	32 - 130
Chrysene	648	642		ug/Kg		99	41 - 130
Dibenz(a,h)an hracene	648	617		ug/Kg		95	27 - 130
Fluoranthene	648	659		ug/Kg		102	40 - 130
Fluorene	648	656		ug/Kg		101	40 - 130
Indeno[1,2,3-cd]pyrene	648	574		ug/Kg		89	30 - 130
1-Methylnaphthalene	648	569		ug/Kg		88	31 - 130
2-Methylnaphthalene	648	610		ug/Kg		94	33 - 130
Naphthalene	648	588		ug/Kg		91	36 - 130
Phenanthrene	648	660		ug/Kg		102	42 - 130
Pyrene	648	681		ug/Kg		105	44 - 130

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

Lab Sample ID: LCS 660-137975/2-A
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137975

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	97		30 - 130

Lab Sample ID: 680-90723-1 MS
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: CV1075A-CS
Prep Type: Total/NA
Prep Batch: 137975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	490	U	824	756		ug/Kg	☼	92	39 - 130
Acenaphthylene	76	J	824	877		ug/Kg	☼	97	38 - 130
Anthracene	130		824	917		ug/Kg	☼	96	37 - 130
Benzo[a]anthracene	370		824	984		ug/Kg	☼	75	40 - 130
Benzo[a]pyrene	360		824	939		ug/Kg	☼	70	49 - 130
Benzo[b]fluoranthene	610		824	1240		ug/Kg	☼	76	37 - 130
Benzo[g,h,i]perylene	250		824	780		ug/Kg	☼	64	32 - 130
Benzo[k]fluoranthene	180		824	911		ug/Kg	☼	89	32 - 130
Chrysene	480		824	1140		ug/Kg	☼	80	41 - 130
Dibenz(a,h)an hracene	94	J	824	721		ug/Kg	☼	76	27 - 130
Fluoranthene	670		824	1220		ug/Kg	☼	67	40 - 130
Fluorene	33	J	824	813		ug/Kg	☼	95	40 - 130
Indeno[1,2,3-cd]pyrene	260		824	798		ug/Kg	☼	66	30 - 130
1-Methylnaphthalene	220		824	839		ug/Kg	☼	75	31 - 130
2-Methylnaphthalene	240		824	904		ug/Kg	☼	81	33 - 130
Naphthalene	180	J	824	820		ug/Kg	☼	78	36 - 130
Phenanthrene	620	B	824	1160		ug/Kg	☼	65	42 - 130
Pyrene	580		824	1190		ug/Kg	☼	74	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	89		30 - 130

Lab Sample ID: 680-90723-1 MSD
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: CV1075A-CS
Prep Type: Total/NA
Prep Batch: 137975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	490	U	824	767		ug/Kg	☼	93	39 - 130	1	40
Acenaphthylene	76	J	824	869		ug/Kg	☼	96	38 - 130	1	40
Anthracene	130		824	910		ug/Kg	☼	95	37 - 130	1	40
Benzo[a]anthracene	370		824	964		ug/Kg	☼	72	40 - 130	2	40
Benzo[a]pyrene	360		824	942		ug/Kg	☼	71	49 - 130	0	40
Benzo[b]fluoranthene	610		824	1190		ug/Kg	☼	71	37 - 130	3	40
Benzo[g,h,i]perylene	250		824	792		ug/Kg	☼	66	32 - 130	2	40
Benzo[k]fluoranthene	180		824	907		ug/Kg	☼	88	32 - 130	0	40
Chrysene	480		824	1090		ug/Kg	☼	74	41 - 130	4	40
Dibenz(a,h)an hracene	94	J	824	729		ug/Kg	☼	77	27 - 130	1	40
Fluoranthene	670		824	1130		ug/Kg	☼	56	40 - 130	8	40
Fluorene	33	J	824	812		ug/Kg	☼	94	40 - 130	0	40
Indeno[1,2,3-cd]pyrene	260		824	801		ug/Kg	☼	66	30 - 130	0	40
1-Methylnaphthalene	220		824	840		ug/Kg	☼	75	31 - 130	0	40

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

Lab Sample ID: 680-90723-1 MSD
Matrix: Solid
Analysis Batch: 138011

Client Sample ID: CV1075A-CS
Prep Type: Total/NA
Prep Batch: 137975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	240		824	899		ug/Kg	☼	80	33 - 130	1	40
Naphthalene	180	J	824	810		ug/Kg	☼	77	36 - 130	1	40
Phenanthrene	620	B	824	1080		ug/Kg	☼	56	42 - 130	7	40
Pyrene	580		824	1090		ug/Kg	☼	62	44 - 130	9	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*88*		*30 - 130*

Lab Sample ID: MB 660-137991/1-A
Matrix: Solid
Analysis Batch: 138098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Fluorene	20	U	20	4.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Naphthalene	40	U	40	4.4	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		06/03/13 10:11	06/04/13 16:06	1
Pyrene	20	U	20	3.7	ug/Kg		06/03/13 10:11	06/04/13 16:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*30 - 130*	*06/03/13 10:11*	*06/04/13 16:06*	*1*

Lab Sample ID: LCS 660-137991/2-A
Matrix: Solid
Analysis Batch: 138098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	584		ug/Kg		88	39 - 130
Acenaphthylene	664	628		ug/Kg		95	38 - 130
Anthracene	664	592		ug/Kg		89	37 - 130
Benzo[a]anthracene	664	612		ug/Kg		92	40 - 130
Benzo[a]pyrene	664	583		ug/Kg		88	49 - 130
Benzo[b]fluoranthene	664	680		ug/Kg		102	37 - 130
Benzo[g,h,i]perylene	664	561		ug/Kg		85	32 - 130
Benzo[k]fluoranthene	664	597		ug/Kg		90	32 - 130

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

Lab Sample ID: LCS 660-137991/2-A
Matrix: Solid
Analysis Batch: 138098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	664	572		ug/Kg		86	41 - 130
Dibenz(a,h)an hracene	664	689		ug/Kg		104	27 - 130
Fluoranthene	664	594		ug/Kg		90	40 - 130
Fluorene	664	617		ug/Kg		93	40 - 130
Indeno[1,2,3-cd]pyrene	664	533		ug/Kg		80	30 - 130
1-Methylnaphthalene	664	590		ug/Kg		89	31 - 130
2-Methylnaphthalene	664	576		ug/Kg		87	33 - 130
Naphthalene	664	499		ug/Kg		75	36 - 130
Phenanthrene	664	543		ug/Kg		82	42 - 130
Pyrene	664	662		ug/Kg		100	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*86*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 137975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-1	CV1075A-CS	Total/NA	Solid	3546	
680-90723-1 MS	CV1075A-CS	Total/NA	Solid	3546	
680-90723-1 MSD	CV1075A-CS	Total/NA	Solid	3546	
680-90723-2	CV1113A-CS	Total/NA	Solid	3546	
680-90723-3	CV1113B-CS	Total/NA	Solid	3546	
680-90723-4	CV1163A-CS	Total/NA	Solid	3546	
680-90723-5	CV1163B-CS	Total/NA	Solid	3546	
680-90723-6	CV1347A-CS	Total/NA	Solid	3546	
680-90723-7	CV1347B-CS	Total/NA	Solid	3546	
680-90723-8	CV1347C-CS	Total/NA	Solid	3546	
680-90723-9	CV0978A-CS	Total/NA	Solid	3546	
680-90723-10	CV0978A-CSD	Total/NA	Solid	3546	
680-90723-11	CV0978B-CS	Total/NA	Solid	3546	
680-90723-12	CV0978B-CSD	Total/NA	Solid	3546	
LCS 660-137975/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137975/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 137991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-13	CV0978C-CS	Total/NA	Solid	3546	
680-90723-14	CV0978D-CS	Total/NA	Solid	3546	
680-90723-15	CV0978E-CS	Total/NA	Solid	3546	
680-90723-16	CV0978F-CS	Total/NA	Solid	3546	
680-90723-17	CV0978G-CS	Total/NA	Solid	3546	
680-90723-18	CV0978H-CS	Total/NA	Solid	3546	
680-90723-19	CV1008A-CS	Total/NA	Solid	3546	
680-90723-20	CV1008B-CS	Total/NA	Solid	3546	
LCS 660-137991/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137991/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-1	CV1075A-CS	Total/NA	Solid	8270C LL	137975
680-90723-1 MS	CV1075A-CS	Total/NA	Solid	8270C LL	137975
680-90723-1 MSD	CV1075A-CS	Total/NA	Solid	8270C LL	137975
LCS 660-137975/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137975
MB 660-137975/1-A	Method Blank	Total/NA	Solid	8270C LL	137975

Analysis Batch: 138098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-2	CV1113A-CS	Total/NA	Solid	8270C LL	137975
680-90723-3	CV1113B-CS	Total/NA	Solid	8270C LL	137975
680-90723-4	CV1163A-CS	Total/NA	Solid	8270C LL	137975
680-90723-5	CV1163B-CS	Total/NA	Solid	8270C LL	137975
680-90723-6	CV1347A-CS	Total/NA	Solid	8270C LL	137975
680-90723-7	CV1347B-CS	Total/NA	Solid	8270C LL	137975
680-90723-8	CV1347C-CS	Total/NA	Solid	8270C LL	137975
680-90723-9	CV0978A-CS	Total/NA	Solid	8270C LL	137975
680-90723-10	CV0978A-CSD	Total/NA	Solid	8270C LL	137975
680-90723-11	CV0978B-CS	Total/NA	Solid	8270C LL	137975
680-90723-12	CV0978B-CSD	Total/NA	Solid	8270C LL	137975

GC/MS Semi VOA (Continued)

Analysis Batch: 138098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-13	CV0978C-CS	Total/NA	Solid	8270C LL	137991
680-90723-14	CV0978D-CS	Total/NA	Solid	8270C LL	137991
680-90723-15	CV0978E-CS	Total/NA	Solid	8270C LL	137991
680-90723-16	CV0978F-CS	Total/NA	Solid	8270C LL	137991
680-90723-17	CV0978G-CS	Total/NA	Solid	8270C LL	137991
680-90723-18	CV0978H-CS	Total/NA	Solid	8270C LL	137991
680-90723-19	CV1008A-CS	Total/NA	Solid	8270C LL	137991
680-90723-20	CV1008B-CS	Total/NA	Solid	8270C LL	137991
LCS 660-137991/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137991
MB 660-137991/1-A	Method Blank	Total/NA	Solid	8270C LL	137991

General Chemistry

Analysis Batch: 137846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90723-1	CV1075A-CS	Total/NA	Solid	Moisture	
680-90723-1 MS	CV1075A-CS	Total/NA	Solid	Moisture	
680-90723-1 MSD	CV1075A-CS	Total/NA	Solid	Moisture	
680-90723-2	CV1113A-CS	Total/NA	Solid	Moisture	
680-90723-3	CV1113B-CS	Total/NA	Solid	Moisture	
680-90723-4	CV1163A-CS	Total/NA	Solid	Moisture	
680-90723-5	CV1163B-CS	Total/NA	Solid	Moisture	
680-90723-6	CV1347A-CS	Total/NA	Solid	Moisture	
680-90723-7	CV1347B-CS	Total/NA	Solid	Moisture	
680-90723-8	CV1347C-CS	Total/NA	Solid	Moisture	
680-90723-9	CV0978A-CS	Total/NA	Solid	Moisture	
680-90723-10	CV0978A-CSD	Total/NA	Solid	Moisture	
680-90723-11	CV0978B-CS	Total/NA	Solid	Moisture	
680-90723-12	CV0978B-CSD	Total/NA	Solid	Moisture	
680-90723-13	CV0978C-CS	Total/NA	Solid	Moisture	
680-90723-14	CV0978D-CS	Total/NA	Solid	Moisture	
680-90723-15	CV0978E-CS	Total/NA	Solid	Moisture	
680-90723-16	CV0978F-CS	Total/NA	Solid	Moisture	
680-90723-17	CV0978G-CS	Total/NA	Solid	Moisture	
680-90723-18	CV0978H-CS	Total/NA	Solid	Moisture	
680-90723-19	CV1008A-CS	Total/NA	Solid	Moisture	
680-90723-20	CV1008B-CS	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV1075A-CS

Lab Sample ID: 680-90723-1
Date Collected: 05/23/13 10:05
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138011	06/03/13 20:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1113A-CS

Lab Sample ID: 680-90723-2
Date Collected: 05/23/13 09:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 12:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1113B-CS

Lab Sample ID: 680-90723-3
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 13:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1163A-CS

Lab Sample ID: 680-90723-4
Date Collected: 05/23/13 10:34
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 13:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1163B-CS

Lab Sample ID: 680-90723-5
Date Collected: 05/23/13 10:42
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 13:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV1347A-CS

Lab Sample ID: 680-90723-6
Date Collected: 05/23/13 08:40
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138098	06/04/13 13:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1347B-CS

Lab Sample ID: 680-90723-7
Date Collected: 05/23/13 08:46
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 14:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1347C-CS

Lab Sample ID: 680-90723-8
Date Collected: 05/23/13 08:50
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 14:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978A-CS

Lab Sample ID: 680-90723-9
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 14:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978A-CSD

Lab Sample ID: 680-90723-10
Date Collected: 05/23/13 09:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 15:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978B-CS

Lab Sample ID: 680-90723-11
Date Collected: 05/23/13 10:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 15:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978B-CSD

Lab Sample ID: 680-90723-12
Date Collected: 05/23/13 10:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137975	06/03/13 06:50	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 15:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978C-CS

Lab Sample ID: 680-90723-13
Date Collected: 05/23/13 10:15
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 71.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 17:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978D-CS

Lab Sample ID: 680-90723-14
Date Collected: 05/23/13 10:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 67.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 17:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978E-CS

Lab Sample ID: 680-90723-15
Date Collected: 05/23/13 10:45
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 17:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Client Sample ID: CV0978F-CS

Lab Sample ID: 680-90723-16
Date Collected: 05/23/13 11:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 17:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978G-CS

Lab Sample ID: 680-90723-17
Date Collected: 05/23/13 11:15
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 18:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV0978H-CS

Lab Sample ID: 680-90723-18
Date Collected: 05/23/13 11:30
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 18:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1008A-CS

Lab Sample ID: 680-90723-19
Date Collected: 05/23/13 14:43
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 18:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Client Sample ID: CV1008B-CS

Lab Sample ID: 680-90723-20
Date Collected: 05/23/13 15:00
Matrix: Solid
Date Received: 05/25/13 09:45
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137991	06/03/13 10:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138098	06/04/13 19:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137846	05/29/13 06:47	AG	TAL TAM

Laboratory References:

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

Serial Number 64256

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: Tampa

Phone: 680-90723
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005148-1356	AL	1	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

STANDARD REPORT DELIVERY ○ DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

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: LL PAH; RCRA 8 Metals

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8 Metals	REMARKS
5-23-13	1005	CV 1075A-CS	C		X			X	X	
	0930	CV 1113A-CS	C		X			X		
	0945	CV 1113B-CS	C		X			X		
	1034	CV 1163A-CS	C		X			X		
	1042	CV 1163B-CS	C		X			X		
	0840	CV 1347A-CS	C		X			X		
	0846	CV 1347B-CS	C		X			X	X	
	0850	CV 1347C-CS	C		X			X		
	0945	CV 0978A-CS	C		X			X		
	0945	CV 0978A-CSD	C		X			X		
	1000	CV 0978B-CS	C		X			X		
	1000	CV 0978B-CSD	C		X			X		

680-90723-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Anglin	5-24-13	1100						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
						[signature]	5/29/13	0745

LABORATORY USE ONLY 2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	3.6 C CV-07

Rel Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

6/6/2013

Serial Number 64257

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Alternate Laboratory Name/Location: Test Am Tampa
Phone: 680-90723
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 2 OF 4
35th Ave Removal	2005198-1356	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
Lisa Harvey			

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

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

REQUIRED ANALYSIS — PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA8 Metals								REMARKS
5-23-13	1015	CV0978C-CS	C		X			X									
	1030	CV0978D-CS	C		X			X									
	1045	CV0978E-CS	C		X			X									
	1100	CV0978F-CS	C		X			X									
	1115	CV0978G-CS	C		X			X	X								
	1130	CV0978H-CS	C		X			X									
	1443	CV1008A-CS	C		X			X									
	1500	CV1008B-CS	C		X			X									
	1323	CV1014A-CS	C		X			X									
	1323	CV1014-A-CSD	C		X			X									
	1334	CV1014B-CS	C		X			X									
	1345	CV1015A-CS	C		X			X									

680-90723-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	5-24-13	1100						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						[signature]	5/29/13	0745

LABORATORY USE ONLY 2.0°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	5/25/13	945	YES ○ NO ○		680-90723	

Rel Carol McNulty 5/28/13 1500

TAL8240-680 (1008)

6/6/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
SDG Number: 68090723-1

Login Number: 90723
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90723-1
SDG Number: 68090723-1

Login Number: 90723
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 05/28/13 02:03 PM

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

Certification Summary

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Laboratory: TestAmerica Savannah

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		399.01	07-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Ilinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13

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

Certification Summary

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

TestAmerica Job ID: 680-90723-1
SDG: 68090723-1

Laboratory: TestAmerica Tampa (Continued)

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14