REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-88298-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	03/12/2013
Reviewer:	Jane Lindsey	Date:	03/27/2013
Concurrence[1]:	Carol Lovett /Sarah Choyke	Date:	04/08/2013

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

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				occurs once per week per the client. A rinsate blank was not collected during the week of 03/11/2013. Blank contamination will be evaluated based on method blank results.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• CV1033A-CS (680-88298-10) and CV1033A-CSD (680-88298-9) • FM0020B-CS (680-88298-19) and FM0020B-CSD (680-88298-20)	
15. Was precision deemed acceptable as defined by the project plans?		✓		See **Attachment B**, Field Duplicate Evaluation.	J
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.	✓			• Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV: 02/22/2013 @ 14:06 • CCV: 03/20/2013 @ 10:36 • CCV: 03/21/2013 @ 11:50 • Initial Calibration: 02/22/2013, instrument BSMD5973 • ICV: 02/22/2013 @ 14:51 • CCV: 03/20/2013 @ 15:54	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-		✓		ICV of 02/22/2013 @ 14:06, instrument BSMC5973: • Chrysene @ -20.6%D (Lab: ≤35, Project: U20), 79.5%R • Benzo(a)pyrene @ -21.7%D (Lab: ≤35, Project: ≤20). 78.5%R Negative bias is indicated by the ICV percent	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥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				difference and the above-mentioned analytes were detected in associated samples[2]; therefore, J-flag chrysene and benzo(a)pyrene results.	
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)?	✓			• Prep Batch 135524: 680-88298-4 (CV0169B-CS-SP), MS/MSD • Prep Batch 135556: 680-88298-21 (Batch sample), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples 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		✓		CV0169B-CS-SP (680-88298-4): • Benzo(a)anthracene @ 183 & 99%R (40-130). Qualification of data is not required, because MSD %R is within acceptance criteria. • Benzo(a)pyrene @ 145 & 83%R (49-130). Qualification of data is not required, because MSD %R is within acceptance criteria. • Benzo(b)fluoranthene @ 204 & 101%R (37-130). Qualification of data is not required, because MSD %R is within acceptance criteria. • Chrysene @ 152 & 89%R (41-130). Qualification of data is not required, because MSD %R is within acceptance criteria. • Fluoranthene @ 348%R & 160%R (40-130). J Flag result. • Phenanthrene @ 363%R & 150%R (42-130). J	J

[2] 680-88298-1 through -7, -19, and -20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				Flag result. • Pyrene @ 296%R & 158%R (44-130). J Flag result.	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples 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		✓		• Benzo(a)anthracene @ 42%.RPD (≤40). J Flag result. • Benzo(b)fluoranthene @ 48%RPD (≤40). J Flag result. • Fluoranthene @ 55%RPD (≤40). J Flag result. • Phenanthrene @ 62%RPD (≤40). J Flag result. • Pyrene @ 45%RPD (≤40). J Flag result.	J
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88298-1	CV0150A-CS-SP	Solid	03/12/13 09:35	03/14/13 09:44
680-88298-2	CV0150B-CS-SP	Solid	03/12/13 09:47	03/14/13 09:44
680-88298-3	CV0169A-CS-SP	Solid	03/12/13 10:10	03/14/13 09:44
680-88298-4	CV0169B-CS-SP	Solid	03/12/13 10:22	03/14/13 09:44
680-88298-5	CV0227A-CS-SP	Solid	03/12/13 10:45	03/14/13 09:44
680-88298-6	CV0227B-CS-SP	Solid	03/12/13 11:00	03/14/13 09:44
680-88298-7	CV0614A-CS-SP	Solid	03/12/13 08:43	03/14/13 09:44
680-88298-8	CV0614B-CS-SP	Solid	03/12/13 08:55	03/14/13 09:44
680-88298-9	CV1033A-CSD	Solid	03/12/13 10:50	03/14/13 09:44
680-88298-10	CV1033A-CS	Solid	03/12/13 10:50	03/14/13 09:44
680-88298-11	CV1149A-CS	Solid	03/12/13 13:05	03/14/13 09:44
680-88298-12	CV1149B-CS	Solid	03/12/13 13:15	03/14/13 09:44
680-88298-13	CV1199A-CS	Solid	03/12/13 12:35	03/14/13 09:44
680-88298-14	CV1199B-CS	Solid	03/12/13 12:45	03/14/13 09:44
680-88298-15	CV1310A-CS	Solid	03/12/13 13:40	03/14/13 09:44
680-88298-16	CV1355A-CS	Solid	03/12/13 14:00	03/14/13 09:44
680-88298-17	CV1355B-CS	Solid	03/12/13 14:10	03/14/13 09:44
680-88298-18	FM0020A-CS	Solid	03/12/13 09:15	03/14/13 09:44
680-88298-19	FM0020B-CS	Solid	03/12/13 09:30	03/14/13 09:44
680-88298-20	FM0020B-CSD	Solid	03/12/13 09:30	03/14/13 09:44

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1033A-CS (680-88298-10)	RL	CV1033A-CSD (680-88298-9)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	570	140	410	530	µg/kg	1675	NA	160	670	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	170	54	150	210	µg/kg	660	NA	20	264	None, absolute difference ≤ 2x Avg RL
Anthracene	1100	11	780	45	µg/kg	140	**34**	NA	NA	None, RPD ≤ 50%
Benzo(a)anthracene	2600	11	2100	43	µg/kg	135	21	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	2200	14	1600	56	µg/kg	175	**32**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	3900	16	2700	65	µg/kg	202.5	**36**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	920	27	1100	110	µg/kg	342.5	18	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	1300	11	920	43	µg/kg	135	**34**	NA	NA	None, RPD ≤ 50%
Chrysene	2300	12	1900	48	µg/kg	150	19	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	300	27	350	110	µg/kg	342.5	NA	50	137	None, absolute difference ≤ 2x Avg RL
Fluoranthene	5000	110	4800	110	µg/kg	550	4	NA	NA	None, RPD ≤ 50%
Fluorene	490	27	340	110	µg/kg	342.5	NA	**150**	**137**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	960	27	1000	110	µg/kg	342.5	4	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	360	54	270	210	µg/kg	660	NA	90	264	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	360	54	240	210	µg/kg	660	NA	120	264	None, absolute difference ≤ 2x Avg RL
Naphthalene	470	54	300	210	µg/kg	660	NA	170	264	None, absolute difference ≤ 2x Avg RL
Phenanthrene	4400	11	3300	43	µg/kg	135	**29**	NA	NA	None, RPD ≤ 50%
Pyrene	4200	27	3400	110	µg/kg	342.5	21	NA	NA	None, RPD ≤ 50%

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

Analyte	FM0020B-CS (680-88298-19)	RL	FM0020B-CSD (680-88298-20)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Anthracene	6.7	13	13	12	µg/kg	62.5	NA	6.3	25	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	45	12	64	12	µg/kg	60	NA	19	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	40	16	61	15	µg/kg	77.5	NA	21	31	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	59	18	130	18	µg/kg	90	NA	**71**	**36**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(g,h,i)perylene	33	30	36	29	µg/kg	147.5	NA	3	59	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	28	12	27	12	µg/kg	60	NA	1	24	None, absolute difference ≤ 2x Avg RL
Chrysene	55	14	76	13	µg/kg	67.5	NA	21	27	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene	13	30	20	29	µg/kg	147.5	NA	7	59	None, absolute difference ≤ 2x Avg RL
Fluoranthene	61	30	100	29	µg/kg	147.5	NA	39	59	None, absolute difference ≤ 2x Avg RL
Fluorene	6.7	30	8.3	29	µg/kg	147.5	NA	1.6	59	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	25	30	33	29	µg/kg	147.5	NA	8	59	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	20	60	22	58	µg/kg	295	NA	2	118	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	28	60	29	58	µg/kg	295	NA	1	118	None, absolute difference ≤ 2x Avg RL
Naphthalene	44	60	33	58	µg/kg	295	NA	11	118	None, absolute difference ≤ 2x Avg RL
Phenanthrene	41	12	54	12	µg/kg	60	NA	13	24	None, absolute difference ≤ 2x Avg RL
Pyrene	56	30	93	29	µg/kg	147.5	NA	37	59	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
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: 680-88298-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88298-1

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 03/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0150A-CS-SP (680-88298-1), CV0150B-CS-SP (680-88298-2), CV0169A-CS-SP (680-88298-3), CV0169B-CS-SP (680-88298-4), CV0227A-CS-SP (680-88298-5), CV0227B-CS-SP (680-88298-6), CV0614A-CS-SP (680-88298-7), CV0614B-CS-SP (680-88298-8), CV1033A-CSD (680-88298-9), CV1033A-CS (680-88298-10), CV1149A-CS (680-88298-11), CV1149B-CS (680-88298-12), CV1199A-CS (680-88298-13), CV1199B-CS (680-88298-14), CV1310A-CS (680-88298-15), CV1355A-CS (680-88298-16), CV1355B-CS (680-88298-17), FM0020A-CS (680-88298-18), FM0020B-CS (680-88298-19) and FM0020B-CSD (680-88298-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/19/2013 and 03/20/2013 and analyzed on 03/20/2013 and 03/21/2013.

Samples CV0150A-CS-SP (680-88298-1)[4X], CV0169B-CS-SP (680-88298-4)[4X], CV0614A-CS-SP (680-88298-7)[4X], CV1033A-CSD (680-88298-9)[4X], CV1033A-CS (680-88298-10)[4X], CV1149A-CS (680-88298-11)[4X], CV1149B-CS (680-88298-12)[4X], CV1199B-CS (680-88298-14)[4X], CV1310A-CS (680-88298-15)[4X] and CV1355A-CS (680-88298-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0169B-CS-SP (680-88298-4) in batch 660-135624. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0150A-CS-SP

Lab Sample ID: 680-88298-1

Date Collected: 03/12/13 09:35
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Anthracene	**37**	**J**	44	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[a]anthracene	**180**		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[a]pyrene	**130**	J	54	27	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[b]fluoranthene	**260**		64	32	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[g,h,i]perylene	**110**		100	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[k]fluoranthene	**100**		42	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Chrysene	**200**	J	47	24	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Dibenz(a,h)anthracene	**57**	**J**	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Fluoranthene	**210**		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Fluorene	100	U	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Indeno[1,2,3-cd]pyrene	**100**		100	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
1-Methylnaphthalene	**150**	**J**	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
2-Methylnaphthalene	**230**		210	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Naphthalene	**180**	**J**	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Phenanthrene	**230**		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Pyrene	**190**		100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/19/13 08:27*	*03/20/13 19:49*	*4*

Client Sample ID: CV0150B-CS-SP

Lab Sample ID: 680-88298-2

Date Collected: 03/12/13 09:47
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Acenaphthylene	**42**	**J**	52	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Anthracene	**57**		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[a]anthracene	**190**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[a]pyrene	**210**	J	14	6.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[b]fluoranthene	**350**		16	8.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[g,h,i]perylene	**140**		26	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[k]fluoranthene	**130**		10	4.7	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Chrysene	**300**	J	12	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Dibenz(a,h)anthracene	**51**		26	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Fluoranthene	**370**		26	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Fluorene	**26**		26	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Indeno[1,2,3-cd]pyrene	**88**		26	9.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
1-Methylnaphthalene	**91**		52	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
2-Methylnaphthalene	**110**		52	9.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Naphthalene	**120**		52	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Phenanthrene	**280**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Pyrene	**340**		26	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:07*	*1*

Client Sample ID: CV0169A-CS-SP
Date Collected: 03/12/13 10:10
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-3
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Acenaphthylene	16	J	49	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Anthracene	36		10	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]anthracene	150		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]pyrene	110	J	13	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[b]fluoranthene	180		15	7.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[g,h,i]perylene	79		25	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[k]fluoranthene	83		9.8	4.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Chrysene	170	J	11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Dibenz(a,h)anthracene	25		25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluoranthene	220		25	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluorene	10	J	25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Indeno[1,2,3-cd]pyrene	77		25	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
1-Methylnaphthalene	120		49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
2-Methylnaphthalene	120		49	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Naphthalene	94		49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Phenanthrene	210		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Pyrene	230		25	4.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:25*	*1*

Client Sample ID: CV0169B-CS-SP
Date Collected: 03/12/13 10:22
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-4
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Acenaphthylene	55	J	210	26	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Anthracene	76		43	22	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[a]anthracene	500	F J	41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[a]pyrene	370	F J	54	27	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[b]fluoranthene	550	F J	63	32	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[g,h,i]perylene	290		100	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[k]fluoranthene	200		41	19	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Chrysene	570	F J	47	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Dibenz(a,h)anthracene	110		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Fluoranthene	760	F J	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Fluorene	55	J	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Indeno[1,2,3-cd]pyrene	180		100	37	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
1-Methylnaphthalene	440		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
2-Methylnaphthalene	320		210	37	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Naphthalene	290		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Phenanthrene	770	F J	41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Pyrene	710	F J	100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:44*	*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 Sample ID: CV0227A-CS-SP
Date Collected: 03/12/13 10:45
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-5
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Acenaphthylene	**35**	**J**	49	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Anthracene	**40**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[a]anthracene	**240**		9.7	4.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[a]pyrene	**260**	**J**	13	6.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[b]fluoranthene	**390**		15	7.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[g,h,i]perylene	**160**		24	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[k]fluoranthene	**170**		9.7	4.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Chrysene	**330**	**J**	11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Dibenz(a,h)anthracene	**53**		24	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Fluoranthene	**420**		24	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Fluorene	**17**	**J**	24	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Indeno[1,2,3-cd]pyrene	**160**		24	8.6	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
1-Methylnaphthalene	**110**		49	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
2-Methylnaphthalene	**110**		49	8.6	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Naphthalene	**96**		49	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Phenanthrene	**290**		9.7	4.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Pyrene	**400**		24	4.5	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*03/19/13 08:27*	*03/20/13 21:39*	*1*

Client Sample ID: CV0227B-CS-SP
Date Collected: 03/12/13 11:00
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-6
Matrix: Solid
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Acenaphthylene	**15**	**J**	52	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Anthracene	**30**		11	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[a]anthracene	**150**		10	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[a]pyrene	**170**	**J**	13	6.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[b]fluoranthene	**280**		16	7.9	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[g,h,i]perylene	**130**		26	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[k]fluoranthene	**69**		10	4.6	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Chrysene	**160**	**J**	12	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Dibenz(a,h)anthracene	**41**		26	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Fluoranthene	**250**		26	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Fluorene	**17**	**J**	26	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Indeno[1,2,3-cd]pyrene	**110**		26	9.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
1-Methylnaphthalene	**52**		52	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
2-Methylnaphthalene	**85**		52	9.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Naphthalene	**86**		52	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Phenanthrene	**160**		10	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Pyrene	**240**		26	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*03/19/13 08:27*	*03/20/13 21:57*	*1*

Client Sample ID: CV0614A-CS-SP
Date Collected: 03/12/13 08:43
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-7
Matrix: Solid
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Acenaphthylene	55	J	200	25	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Anthracene	71		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[a]anthracene	440		41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[a]pyrene	410	J	53	26	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[b]fluoranthene	580		62	31	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[g,h,i]perylene	260		100	22	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[k]fluoranthene	440		41	18	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Chrysene	500	J	46	23	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Dibenz(a,h)anthracene	110		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Fluoranthene	650		100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Fluorene	28	J	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Indeno[1,2,3-cd]pyrene	230		100	36	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
1-Methylnaphthalene	180	J	200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
2-Methylnaphthalene	260		200	36	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Naphthalene	180	J	200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Phenanthrene	520		41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Pyrene	640		100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/19/13 08:27*	*03/20/13 22:16*	*4*

Client Sample ID: CV0614B-CS-SP
Date Collected: 03/12/13 08:55
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-8
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Acenaphthylene	16	J	49	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Anthracene	26		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[a]anthracene	110		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[a]pyrene	110		13	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[b]fluoranthene	210		15	7.5	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[g,h,i]perylene	98		25	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[k]fluoranthene	68		9.8	4.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Chrysene	140		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Dibenz(a,h)anthracene	28		25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Fluoranthene	160		25	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Fluorene	5.0	J	25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Indeno[1,2,3-cd]pyrene	83		25	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
1-Methylnaphthalene	46	J	49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
2-Methylnaphthalene	60		49	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Naphthalene	49		49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Phenanthrene	97		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Pyrene	130		25	4.5	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/19/13 08:27*	*03/20/13 16:39*	*1*

Client Sample ID: CV1033A-CSD
Date Collected: 03/12/13 10:50
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-9
Matrix: Solid
Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	J	530	110	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Acenaphthylene	150	J	210	27	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Anthracene	780		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[a]anthracene	2100		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[a]pyrene	1600		56	28	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[b]fluoranthene	2700		65	33	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[g,h,i]perylene	1100		110	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[k]fluoranthene	920		43	19	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Chrysene	1900		48	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Dibenz(a,h)anthracene	350		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Fluoranthene	4800		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Fluorene	340	J	110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Indeno[1,2,3-cd]pyrene	1000		110	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
1-Methylnaphthalene	270		210	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
2-Methylnaphthalene	240		210	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Naphthalene	300		210	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Phenanthrene	3300		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Pyrene	3400		110	20	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*03/19/13 08:27*	*03/20/13 17:02*	*4*

Client Sample ID: CV1033A-CS
Date Collected: 03/12/13 10:50
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-10
Matrix: Solid
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570		140	27	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Acenaphthylene	170		54	6.8	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Anthracene	1100		11	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[a]anthracene	2600		11	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[a]pyrene	2200		14	7.0	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[b]fluoranthene	3900		16	8.2	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[g,h,i]perylene	920		27	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[k]fluoranthene	1300		11	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Chrysene	2300		12	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Dibenz(a,h)anthracene	300		27	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Fluorene	490	J	27	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Indeno[1,2,3-cd]pyrene	960		27	9.6	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
1-Methylnaphthalene	360		54	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
2-Methylnaphthalene	360		54	9.6	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Naphthalene	470		54	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Phenanthrene	4400		11	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Pyrene	4200		27	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*03/19/13 08:27*	*03/20/13 17:24*	*1*

Client Sample ID: CV1033A-CS
Lab Sample ID: 680-88298-10
Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**5000**		110	22	ug/Kg	☼	03/19/13 08:27	03/21/13 14:37	4

Client Sample ID: CV1149A-CS
Lab Sample ID: 680-88298-11
Date Collected: 03/12/13 13:05
Matrix: Solid
Date Received: 03/14/13 09:44
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	**120**	**J**	530	110	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Acenaphthylene	**120**	**J**	210	27	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Anthracene	**340**		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[a]anthracene	**1300**		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[a]pyrene	**1100**		55	28	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[b]fluoranthene	**1900**		65	32	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[g,h,i]perylene	**500**		110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[k]fluoranthene	**590**		43	19	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Chrysene	**1400**		48	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Dibenz(a,h)anthracene	**180**		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Fluoranthene	**2700**		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Fluorene	**120**		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Indeno[1,2,3-cd]pyrene	**500**		110	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
1-Methylnaphthalene	**270**		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
2-Methylnaphthalene	**310**		210	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Naphthalene	**260**		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Phenanthrene	**1800**		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Pyrene	**1900**		110	20	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*03/19/13 08:27*	*03/20/13 17:47*	*4*

Client Sample ID: CV1149B-CS
Lab Sample ID: 680-88298-12
Date Collected: 03/12/13 13:15
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Acenaphthylene	**30**	**J**	210	27	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Anthracene	**73**		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[a]anthracene	**310**		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[a]pyrene	**280**		55	28	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[b]fluoranthene	**540**		65	33	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[g,h,i]perylene	**180**		110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[k]fluoranthene	**170**		43	19	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Chrysene	**350**		48	24	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Dibenz(a,h)anthracene	**53**	**J**	110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Fluoranthene	**530**		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Fluorene	**29**	**J**	110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Indeno[1,2,3-cd]pyrene	**160**		110	38	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
1-Methylnaphthalene	**110**	**J**	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4

Client Sample ID: CV1149B-CS

Lab Sample ID: 680-88298-12

Date Collected: 03/12/13 13:15
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**160**	J	210	38	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Naphthalene	**120**	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Phenanthrene	**370**		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Pyrene	**410**		110	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:10*	*4*

Client Sample ID: CV1199A-CS

Lab Sample ID: 680-88298-13

Date Collected: 03/12/13 12:35
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 67.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Acenaphthylene	**65**		59	7.4	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Anthracene	**92**		12	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[a]anthracene	**470**		12	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[a]pyrene	**670**		15	7.7	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[b]fluoranthene	**1300**		18	9.0	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[g,h,i]perylene	**450**		30	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[k]fluoranthene	**420**		12	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Chrysene	**620**		13	6.7	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Dibenz(a,h)anthracene	**150**		30	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Fluoranthene	**680**		30	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Fluorene	**28**	J	30	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Indeno[1,2,3-cd]pyrene	**430**		30	11	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
1-Methylnaphthalene	**120**		59	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
2-Methylnaphthalene	**150**		59	11	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Naphthalene	**140**		59	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Phenanthrene	**390**		12	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Pyrene	**570**		30	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:32*	*1*

Client Sample ID: CV1199B-CS

Lab Sample ID: 680-88298-14

Date Collected: 03/12/13 12:45
Matrix: Solid
Date Received: 03/14/13 09:44
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	500	U	500	100	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Acenaphthylene	**66**	J	200	25	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Anthracene	**150**		42	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[a]anthracene	**1000**		40	19	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[a]pyrene	**1400**		52	26	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[b]fluoranthene	**3000**		61	30	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[g,h,i]perylene	**1200**		100	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[k]fluoranthene	**890**		40	18	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4

Client Sample ID: CV1199B-CS
Date Collected: 03/12/13 12:45
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-14
Matrix: Solid
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**1300**		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Dibenz(a,h)anthracene	**400**		100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Fluoranthene	**1200**		100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Fluorene	**40**	J	100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Indeno[1,2,3-cd]pyrene	**1100**		100	35	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
1-Methylnaphthalene	**220**		200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
2-Methylnaphthalene	**250**		200	35	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Naphthalene	**190**	J	200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Phenanthrene	**670**		40	19	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Pyrene	**1000**		100	18	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:55*	*4*

Client Sample ID: CV1310A-CS
Date Collected: 03/12/13 13:40
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-15
Matrix: Solid
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Acenaphthylene	**47**	J	210	26	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Anthracene	**60**		44	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[a]anthracene	**170**		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[a]pyrene	**160**		54	27	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[b]fluoranthene	**320**		63	32	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[g,h,i]perylene	**80**	J	100	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[k]fluoranthene	**110**		42	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Chrysene	**210**		47	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Dibenz(a,h)anthracene	**36**	J	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Fluoranthene	**200**		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Fluorene	100	U	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Indeno[1,2,3-cd]pyrene	**77**	J	100	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
1-Methylnaphthalene	**55**	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
2-Methylnaphthalene	**73**	J	210	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Naphthalene	**85**	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Phenanthrene	**110**		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Pyrene	**180**		100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*03/19/13 08:27*	*03/20/13 19:17*	*4*

Client Sample ID: CV1355A-CS
Date Collected: 03/12/13 14:00
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-16
Matrix: Solid
Percent Solids: 71.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Acenaphthylene	**59**	J	220	28	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4

Client Sample ID: CV1355A-CS
Date Collected: 03/12/13 14:00
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-16
Matrix: Solid
Percent Solids: 71.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	86		47	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[a]anthracene	330		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[a]pyrene	310		58	29	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[b]fluoranthene	580		68	34	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[g,h,i]perylene	160		110	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[k]fluoranthene	220		45	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Chrysene	450		50	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Dibenz(a,h)anthracene	55	J	110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Fluoranthene	580		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Fluorene	23	J	110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Indeno[1,2,3-cd]pyrene	160		110	40	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
1-Methylnaphthalene	140	J	220	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
2-Methylnaphthalene	190	J	220	40	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Naphthalene	140	J	220	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Phenanthrene	380		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Pyrene	480		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/19/13 08:27*	*03/20/13 19:40*	*4*

Client Sample ID: CV1355B-CS
Date Collected: 03/12/13 14:10
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-17
Matrix: Solid
Percent Solids: 70.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Acenaphthylene	25	J	56	7.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Anthracene	44		12	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[a]anthracene	130		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[a]pyrene	110		15	7.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[b]fluoranthene	250		17	8.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[g,h,i]perylene	61		28	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[k]fluoranthene	69		11	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Chrysene	180		13	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Dibenz(a,h)anthracene	21	J	28	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Fluoranthene	210		28	5.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Fluorene	9.5	J	28	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Indeno[1,2,3-cd]pyrene	56		28	10	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
1-Methylnaphthalene	89		56	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
2-Methylnaphthalene	120		56	10	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Naphthalene	90		56	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Phenanthrene	160		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Pyrene	170		28	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:02*	*1*

Client Sample ID: FM0020A-CS
Date Collected: 03/12/13 09:15
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-18
Matrix: Solid
Percent Solids: 63.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**34**	**J**	160	31	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Acenaphthylene	63	U	63	7.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Anthracene	**54**		13	6.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]anthracene	**230**		13	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]pyrene	**200**		16	8.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[b]fluoranthene	**350**		19	9.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[g,h,i]perylene	**82**		31	6.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[k]fluoranthene	**130**		13	5.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Chrysene	**240**		14	7.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Dibenz(a,h)anthracene	**29**	**J**	31	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluoranthene	**460**		31	6.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluorene	**23**	**J**	31	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Indeno[1,2,3-cd]pyrene	**91**		31	11	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
1-Methylnaphthalene	**38**	**J**	63	6.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
2-Methylnaphthalene	**50**	**J**	63	11	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Naphthalene	**53**	**J**	63	6.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Phenanthrene	**250**		13	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Pyrene	**340**		31	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:25*	*1*

Client Sample ID: FM0020B-CS
Date Collected: 03/12/13 09:30
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-19
Matrix: Solid
Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Acenaphthylene	60	U	60	7.5	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Anthracene	**6.7**	**J**	13	6.3	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[a]anthracene	**45**		12	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[a]pyrene	**40**	**J**	16	7.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[b]fluoranthene	**59**	**J**	18	9.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[g,h,i]perylene	**33**		30	6.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[k]fluoranthene	**28**		12	5.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Chrysene	**55**	**J**	14	6.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Dibenz(a,h)anthracene	**13**	**J**	30	6.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Fluoranthene	**61**		30	6.0	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Fluorene	**6.7**	**J**	30	6.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	30	11	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
1-Methylnaphthalene	**20**	**J**	60	6.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
2-Methylnaphthalene	**28**	**J**	60	11	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Naphthalene	**44**	**J**	60	6.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Phenanthrene	**41**		12	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Pyrene	**56**		30	5.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/20/13 08:31*	*03/21/13 21:04*	*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: 680-88298-1
SDG: 68088298-1

Client Sample ID: FM0020B-CSD
Date Collected: 03/12/13 09:30
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-20
Matrix: Solid
Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Acenaphthylene	58	U	58	7.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Anthracene	**13**		12	6.1	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[a]anthracene	**64**		12	5.7	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[a]pyrene	**61**	J	15	7.5	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[b]fluoranthene	**130**	J	18	8.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[g,h,i]perylene	**36**		29	6.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[k]fluoranthene	**27**		12	5.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Chrysene	**76**	J	13	6.5	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Dibenz(a,h)anthracene	**20**	J	29	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Fluoranthene	**100**		29	5.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Fluorene	**8.3**	J	29	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Indeno[1,2,3-cd]pyrene	**33**		29	10	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
1-Methylnaphthalene	**22**	J	58	6.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
2-Methylnaphthalene	**29**	J	58	10	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Naphthalene	**33**	J	58	6.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Phenanthrene	**54**		12	5.7	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Pyrene	**93**		29	5.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*03/20/13 08:31*	*03/21/13 21:22*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-88298-1

SDG Number: 68088298-1

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
3/26/2013 5:22 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/26/2013

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.

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NELAP ACCREDITED TNI LABORATORY

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88298-1

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 03/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0150A-CS-SP (680-88298-1), CV0150B-CS-SP (680-88298-2), CV0169A-CS-SP (680-88298-3), CV0169B-CS-SP (680-88298-4), CV0227A-CS-SP (680-88298-5), CV0227B-CS-SP (680-88298-6), CV0614A-CS-SP (680-88298-7), CV0614B-CS-SP (680-88298-8), CV1033A-CSD (680-88298-9), CV1033A-CS (680-88298-10), CV1149A-CS (680-88298-11), CV1149B-CS (680-88298-12), CV1199A-CS (680-88298-13), CV1199B-CS (680-88298-14), CV1310A-CS (680-88298-15), CV1355A-CS (680-88298-16), CV1355B-CS (680-88298-17), FM0020A-CS (680-88298-18), FM0020B-CS (680-88298-19) and FM0020B-CSD (680-88298-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/19/2013 and 03/20/2013 and analyzed on 03/20/2013 and 03/21/2013.

Samples CV0150A-CS-SP (680-88298-1)[4X], CV0169B-CS-SP (680-88298-4)[4X], CV0614A-CS-SP (680-88298-7)[4X], CV1033A-CSD (680-88298-9)[4X], CV1033A-CS (680-88298-10)[4X], CV1149A-CS (680-88298-11)[4X], CV1149B-CS (680-88298-12)[4X], CV1199B-CS (680-88298-14)[4X], CV1310A-CS (680-88298-15)[4X] and CV1355A-CS (680-88298-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0169B-CS-SP (680-88298-4) in batch 660-135624. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
Sdg Number: 68088298-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88298-1	CV0150A-CS-SP	Solid	03/12/2013 0935	03/14/2013 0944
680-88298-2	CV0150B-CS-SP	Solid	03/12/2013 0947	03/14/2013 0944
680-88298-3	CV0169A-CS-SP	Solid	03/12/2013 1010	03/14/2013 0944
680-88298-4	CV0169B-CS-SP	Solid	03/12/2013 1022	03/14/2013 0944
680-88298-4MS	CV0169B-CS-SP	Solid	03/12/2013 1022	03/14/2013 0944
680-88298-4MSD	CV0169B-CS-SP	Solid	03/12/2013 1022	03/14/2013 0944
680-88298-5	CV0227A-CS-SP	Solid	03/12/2013 1045	03/14/2013 0944
680-88298-6	CV0227B-CS-SP	Solid	03/12/2013 1100	03/14/2013 0944
680-88298-7	CV0614A-CS-SP	Solid	03/12/2013 0843	03/14/2013 0944
680-88298-8	CV0614B-CS-SP	Solid	03/12/2013 0855	03/14/2013 0944
680-88298-9	CV1033A-CSD	Solid	03/12/2013 1050	03/14/2013 0944
680-88298-10	CV1033A-CS	Solid	03/12/2013 1050	03/14/2013 0944
680-88298-11	CV1149A-CS	Solid	03/12/2013 1305	03/14/2013 0944
680-88298-12	CV1149B-CS	Solid	03/12/2013 1315	03/14/2013 0944
680-88298-13	CV1199A-CS	Solid	03/12/2013 1235	03/14/2013 0944
680-88298-14	CV1199B-CS	Solid	03/12/2013 1245	03/14/2013 0944
680-88298-15	CV1310A-CS	Solid	03/12/2013 1340	03/14/2013 0944
680-88298-16	CV1355A-CS	Solid	03/12/2013 1400	03/14/2013 0944
680-88298-17	CV1355B-CS	Solid	03/12/2013 1410	03/14/2013 0944
680-88298-18	FM0020A-CS	Solid	03/12/2013 0915	03/14/2013 0944
680-88298-19	FM0020B-CS	Solid	03/12/2013 0930	03/14/2013 0944
680-88298-20	FM0020B-CSD	Solid	03/12/2013 0930	03/14/2013 0944

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
Sdg Number: 68088298-1

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: 680-88298-1
Sdg Number: 68088298-1

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: 680-88298-1
Sdg Number: 68088298-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
Sdg Number: 68088298-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-135524					
LCS 660-135524/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135524/1-A	Method Blank	T	Solid	3546	
680-88298-1	CV0150A-CS-SP	T	Solid	3546	
680-88298-2	CV0150B-CS-SP	T	Solid	3546	
680-88298-3	CV0169A-CS-SP	T	Solid	3546	
680-88298-4	CV0169B-CS-SP	T	Solid	3546	
680-88298-4MS	Matrix Spike	T	Solid	3546	
680-88298-4MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88298-5	CV0227A-CS-SP	T	Solid	3546	
680-88298-6	CV0227B-CS-SP	T	Solid	3546	
680-88298-7	CV0614A-CS-SP	T	Solid	3546	
680-88298-8	CV0614B-CS-SP	T	Solid	3546	
680-88298-9	CV1033A-CSD	T	Solid	3546	
680-88298-10	CV1033A-CS	T	Solid	3546	
680-88298-10DL	CV1033A-CS	T	Solid	3546	
680-88298-11	CV1149A-CS	T	Solid	3546	
680-88298-12	CV1149B-CS	T	Solid	3546	
680-88298-13	CV1199A-CS	T	Solid	3546	
680-88298-14	CV1199B-CS	T	Solid	3546	
680-88298-15	CV1310A-CS	T	Solid	3546	
680-88298-16	CV1355A-CS	T	Solid	3546	
680-88298-17	CV1355B-CS	T	Solid	3546	
680-88298-18	FM0020A-CS	T	Solid	3546	
Prep Batch: 660-135556					
LCS 660-135556/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135556/1-A	Method Blank	T	Solid	3546	
680-88298-19	FM0020B-CS	T	Solid	3546	
680-88298-20	FM0020B-CSD	T	Solid	3546	
680-88298-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88298-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-135596					
680-88298-8	CV0614B-CS-SP	T	Solid	8270C LL	660-135524
680-88298-9	CV1033A-CSD	T	Solid	8270C LL	660-135524
680-88298-10	CV1033A-CS	T	Solid	8270C LL	660-135524
680-88298-11	CV1149A-CS	T	Solid	8270C LL	660-135524
680-88298-12	CV1149B-CS	T	Solid	8270C LL	660-135524
680-88298-13	CV1199A-CS	T	Solid	8270C LL	660-135524
680-88298-14	CV1199B-CS	T	Solid	8270C LL	660-135524
680-88298-15	CV1310A-CS	T	Solid	8270C LL	660-135524
680-88298-16	CV1355A-CS	T	Solid	8270C LL	660-135524
680-88298-17	CV1355B-CS	T	Solid	8270C LL	660-135524
680-88298-18	FM0020A-CS	T	Solid	8270C LL	660-135524

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
Sdg Number: 68088298-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135624					
LCS 660-135524/2-A	Lab Control Sample	T	Solid	8270C LL	660-135524
MB 660-135524/1-A	Method Blank	T	Solid	8270C LL	660-135524
680-88298-1	CV0150A-CS-SP	T	Solid	8270C LL	660-135524
680-88298-2	CV0150B-CS-SP	T	Solid	8270C LL	660-135524
680-88298-3	CV0169A-CS-SP	T	Solid	8270C LL	660-135524
680-88298-4	CV0169B-CS-SP	T	Solid	8270C LL	660-135524
680-88298-4MS	Matrix Spike	T	Solid	8270C LL	660-135524
680-88298-4MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135524
680-88298-5	CV0227A-CS-SP	T	Solid	8270C LL	660-135524
680-88298-6	CV0227B-CS-SP	T	Solid	8270C LL	660-135524
680-88298-7	CV0614A-CS-SP	T	Solid	8270C LL	660-135524
Analysis Batch:660-135643					
LCS 660-135556/2-A	Lab Control Sample	T	Solid	8270C LL	660-135556
MB 660-135556/1-A	Method Blank	T	Solid	8270C LL	660-135556
680-88298-10DL	CV1033A-CS	T	Solid	8270C LL	660-135524
680-88298-19	FM0020B-CS	T	Solid	8270C LL	660-135556
680-88298-20	FM0020B-CSD	T	Solid	8270C LL	660-135556
680-88298-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135556
680-88298-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135556

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
Sdg Number: 68088298-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135482					
MB 660-135482/1	Method Blank	T	Solid	Moisture	
680-88298-1	CV0150A-CS-SP	T	Solid	Moisture	
680-88298-2	CV0150B-CS-SP	T	Solid	Moisture	
680-88298-3	CV0169A-CS-SP	T	Solid	Moisture	
680-88298-4	CV0169B-CS-SP	T	Solid	Moisture	
680-88298-4MS	Matrix Spike	T	Solid	Moisture	
680-88298-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88298-5	CV0227A-CS-SP	T	Solid	Moisture	
680-88298-6	CV0227B-CS-SP	T	Solid	Moisture	
680-88298-7	CV0614A-CS-SP	T	Solid	Moisture	
680-88298-8	CV0614B-CS-SP	T	Solid	Moisture	
680-88298-9	CV1033A-CSD	T	Solid	Moisture	
680-88298-10	CV1033A-CS	T	Solid	Moisture	
680-88298-11	CV1149A-CS	T	Solid	Moisture	
680-88298-12	CV1149B-CS	T	Solid	Moisture	
680-88298-13	CV1199A-CS	T	Solid	Moisture	
680-88298-14	CV1199B-CS	T	Solid	Moisture	
680-88298-15	CV1310A-CS	T	Solid	Moisture	
680-88298-16	CV1355A-CS	T	Solid	Moisture	
680-88298-17	CV1355B-CS	T	Solid	Moisture	
680-88298-18	FM0020A-CS	T	Solid	Moisture	
680-88298-19	FM0020B-CS	T	Solid	Moisture	
680-88298-20	FM0020B-CSD	T	Solid	Moisture	
680-88298-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88298-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/3 Client Sample ID:

Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID:

Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID:

Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID:

Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID:

Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/8 Client Sample ID:

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID:

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID:

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 135624

Lab Sample ID: CCVIS 660-135624/3 Client Sample ID:

Date Analyzed: 03/20/13 10:36 Lab File ID: 1CC20003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/20/13 10:52

Lab Sample ID: LCS 660-135524/2-A Client Sample ID:

Date Analyzed: 03/20/13 18:54 Lab File ID: 1CC20030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 10:22

Lab Sample ID: 680-88298-1 Client Sample ID: CV0150A-CS-SP

Date Analyzed: 03/20/13 19:49 Lab File ID: 1CC20033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 11:48
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	03/21/13 11:48

Lab Sample ID: 680-88298-2 Client Sample ID: CV0150B-CS-SP

Date Analyzed: 03/20/13 20:07 Lab File ID: 1CC20034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 11:49
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/21/13 11:49
Indeno[1,2,3-cd]pyrene	10.07	Baseline Event	cantins	03/21/13 11:50
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	03/21/13 11:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 135624

Lab Sample ID: 680-88298-3 Client Sample ID: CV0169A-CS-SP

Date Analyzed: 03/20/13 20:25 Lab File ID: 1CC20035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 11:51

Lab Sample ID: 680-88298-4 Client Sample ID: CV0169B-CS-SP

Date Analyzed: 03/20/13 20:44 Lab File ID: 1CC20036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 11:51
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 11:51
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 11:52

Lab Sample ID: 680-88298-4 MS Client Sample ID: CV0169B-CS-SP MS

Date Analyzed: 03/20/13 21:02 Lab File ID: 1CC20037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 11:54

Lab Sample ID: 680-88298-4 MSD Client Sample ID: CV0169B-CS-SP MSD

Date Analyzed: 03/20/13 21:20 Lab File ID: 1CC20038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 11:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 135624

Lab Sample ID: 680-88298-5 Client Sample ID: CV0227A-CS-SP

Date Analyzed: 03/20/13 21:39 Lab File ID: 1CC20039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 11:56
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 11:56
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 11:56

Lab Sample ID: 680-88298-6 Client Sample ID: CV0227B-CS-SP

Date Analyzed: 03/20/13 21:57 Lab File ID: 1CC20040.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.58	Analyte Misidentified by the Data System	cantins	03/21/13 11:57
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/21/13 11:57

Lab Sample ID: 680-88298-7 Client Sample ID: CV0614A-CS-SP

Date Analyzed: 03/20/13 22:16 Lab File ID: 1CC20041.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 11:57
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 11:58
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 11:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 135643

Lab Sample ID: CCVIS 660-135643/4 Client Sample ID:

Date Analyzed: 03/21/13 11:50 Lab File ID: 1CC21004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 12:08

Lab Sample ID: LCS 660-135556/2-A Client Sample ID:

Date Analyzed: 03/21/13 20:46 Lab File ID: 1CC21033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:13

Lab Sample ID: 680-88298-19 Client Sample ID: FM0020B-CS

Date Analyzed: 03/21/13 21:04 Lab File ID: 1CC21034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 12:24
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 12:24
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:25
Dibenz(a,h)anthracene	10.08	Baseline Event	cantins	03/25/13 12:25
Benzo[g,h,i]perylene	10.42	Baseline Event	cantins	03/25/13 12:25

Lab Sample ID: 680-88298-20 Client Sample ID: FM0020B-CSD

Date Analyzed: 03/21/13 21:22 Lab File ID: 1CC21035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 12:26
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 12:26
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:26
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	03/25/13 12:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Analysis Batch Number: 135643

Lab Sample ID: 680-88298-A-21-B MS Client Sample ID:

Date Analyzed: 03/21/13 21:59 Lab File ID: 1CC21037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:28

Lab Sample ID: 680-88298-A-21-C MSD Client Sample ID:

Date Analyzed: 03/21/13 22:17 Lab File ID: 1CC21038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: IC 660-134781/3 Client Sample ID:

Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/13 14:57
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/13 14:57

Lab Sample ID: IC 660-134781/4 Client Sample ID:

Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/5 Client Sample ID:

Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/6 Client Sample ID:

Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:59

Lab Sample ID: IC 660-134781/9 Client Sample ID:

Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/13 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: ICV 660-134781/10 Client Sample ID:

Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.32	Baseline Event	cantins	02/22/13 15:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Analysis Batch Number: 135596

Lab Sample ID: CCVIS 660-135596/13 Client Sample ID:

Date Analyzed: 03/20/13 15:54 Lab File ID: 1DC20012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.90	Split Peak	cantins	03/20/13 16:18

Lab Sample ID: 680-88298-8 Client Sample ID: CV0614B-CS-SP

Date Analyzed: 03/20/13 16:39 Lab File ID: 1DC20014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.88	Split Peak	cantins	03/21/13 12:53

Lab Sample ID: 680-88298-9 Client Sample ID: CV1033A-CSD

Date Analyzed: 03/20/13 17:02 Lab File ID: 1DC20015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/21/13 12:54

Lab Sample ID: 680-88298-10 Client Sample ID: CV1033A-CS

Date Analyzed: 03/20/13 17:24 Lab File ID: 1DC20016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	03/21/13 12:55

Lab Sample ID: 680-88298-11 Client Sample ID: CV1149A-CS

Date Analyzed: 03/20/13 17:47 Lab File ID: 1DC20017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.90	Split Peak	cantins	03/21/13 13:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Analysis Batch Number: 135596

Lab Sample ID: 680-88298-12 Client Sample ID: CV1149B-CS

Date Analyzed: 03/20/13 18:10 Lab File ID: 1DC20018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/21/13 13:38

Lab Sample ID: 680-88298-13 Client Sample ID: CV1199A-CS

Date Analyzed: 03/20/13 18:32 Lab File ID: 1DC20019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.91	Split Peak	cantins	03/21/13 13:39

Lab Sample ID: 680-88298-14 Client Sample ID: CV1199B-CS

Date Analyzed: 03/20/13 18:55 Lab File ID: 1DC20020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.91	Split Peak	cantins	03/21/13 13:40

Lab Sample ID: 680-88298-15 Client Sample ID: CV1310A-CS

Date Analyzed: 03/20/13 19:17 Lab File ID: 1DC20021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/21/13 13:41

Lab Sample ID: 680-88298-16 Client Sample ID: CV1355A-CS

Date Analyzed: 03/20/13 19:40 Lab File ID: 1DC20022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/21/13 13:42

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Analysis Batch Number: 135596

Lab Sample ID: 680-88298-17 Client Sample ID: CV1355B-CS

Date Analyzed: 03/20/13 20:02 Lab File ID: 1DC20023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.90	Split Peak	cantins	03/21/13 13:42

Lab Sample ID: 680-88298-18 Client Sample ID: FM0020A-CS

Date Analyzed: 03/20/13 20:25 Lab File ID: 1DC20024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/21/13 13:43

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.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0150A-CS-SP	680-88298-1	71
CV0150B-CS-SP	680-88298-2	82
CV0169A-CS-SP	680-88298-3	75
CV0169B-CS-SP	680-88298-4	65
CV0227A-CS-SP	680-88298-5	55
CV0227B-CS-SP	680-88298-6	84
CV0614A-CS-SP	680-88298-7	64
CV0614B-CS-SP	680-88298-8	68
CV1033A-CSD	680-88298-9	48
CV1033A-CS	680-88298-10	58
CV1149A-CS	680-88298-11	87
CV1149B-CS	680-88298-12	74
CV1199A-CS	680-88298-13	65
CV1199B-CS	680-88298-14	63
CV1310A-CS	680-88298-15	70
CV1355A-CS	680-88298-16	71
CV1355B-CS	680-88298-17	43
FM0020A-CS	680-88298-18	61
FM0020B-CS	680-88298-19	71
FM0020B-CSD	680-88298-20	73
	MB 660-135524/1-A	78
	MB 660-135556/1-A	87
	LCS 660-135524/2-A	77
	LCS 660-135556/2-A	75
	680-88298-A-21-B MS	66
CV0169B-CS-SP MS	680-88298-4 MS	84
	680-88298-A-21-C MSD	63
CV0169B-CS-SP MSD	680-88298-4 MSD	74

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low Lab File ID: 1CC20030.D

Lab ID: LCS 660-135524/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	467	71	39-130	
Acenaphthylene	656	502	76	38-130	
Anthracene	656	487	74	37-130	
Benzo[a]anthracene	656	488	74	40-130	
Benzo[a]pyrene	656	493	75	49-130	
Benzo[b]fluoranthene	656	550	84	37-130	
Benzo[g,h,i]perylene	656	435	66	32-130	
Benzo[k]fluoranthene	656	505	77	32-130	
Chrysene	656	469	72	41-130	
Dibenz(a,h)anthracene	656	490	75	27-130	
Fluoranthene	656	489	75	40-130	
Fluorene	656	492	75	40-130	
Indeno[1,2,3-cd]pyrene	656	460	70	30-130	
1-Methylnaphthalene	656	536	82	31-130	
2-Methylnaphthalene	656	464	71	33-130	
Naphthalene	656	485	74	36-130	
Phenanthrene	656	483	74	42-130	
Pyrene	656	543	83	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.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low Lab File ID: 1CC21033.D

Lab ID: LCS 660-135556/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	456	69	39-130	
Acenaphthylene	664	518	78	38-130	
Anthracene	664	519	78	37-130	
Benzo[a]anthracene	664	537	81	40-130	
Benzo[a]pyrene	664	503	76	49-130	
Benzo[b]fluoranthene	664	555	84	37-130	
Benzo[g,h,i]perylene	664	382	58	32-130	
Benzo[k]fluoranthene	664	529	80	32-130	
Chrysene	664	510	77	41-130	
Dibenz(a,h)anthracene	664	458	69	27-130	
Fluoranthene	664	507	76	40-130	
Fluorene	664	501	75	40-130	
Indeno[1,2,3-cd]pyrene	664	445	67	30-130	
1-Methylnaphthalene	664	600	90	31-130	
2-Methylnaphthalene	664	543	82	33-130	
Naphthalene	664	558	84	36-130	
Phenanthrene	664	499	75	42-130	
Pyrene	664	572	86	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.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low Lab File ID: 1CC21037.D

Lab ID: 680-88298-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	964	140 U	647	67	39-130	
Acenaphthylene	964	58 U	672	70	38-130	
Anthracene	964	18	719	73	37-130	
Benzo[a]anthracene	964	86	740	68	40-130	
Benzo[a]pyrene	964	70	685	64	49-130	
Benzo[b]fluoranthene	964	110	847	76	37-130	
Benzo[g,h,i]perylene	964	36	533	52	32-130	
Benzo[k]fluoranthene	964	55	779	75	32-130	
Chrysene	964	86	745	68	41-130	
Dibenz(a,h)anthracene	964	18 J	599	60	27-130	
Fluoranthene	964	150	776	65	40-130	
Fluorene	964	12 J	655	67	40-130	
Indeno[1,2,3-cd]pyrene	964	35	561	55	30-130	
1-Methylnaphthalene	964	39 J	752	74	31-130	
2-Methylnaphthalene	964	60	692	66	33-130	
Naphthalene	964	83	683	62	36-130	
Phenanthrene	964	110	768	68	42-130	
Pyrene	964	140	856	74	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low Lab File ID: 1CC20037.D

Lab ID: 680-88298-4 MS Client ID: CV0169B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	864	520 U	817	95	39-130	
Acenaphthylene	864	55 J	715	76	38-130	
Anthracene	864	76	1200	130	37-130	
Benzo[a]anthracene	864	500	2080	183	40-130	F
Benzo[a]pyrene	864	370	1620	145	49-130	F
Benzo[b]fluoranthene	864	550	2320	204	37-130	F
Benzo[g,h,i]perylene	864	290	1070	91	32-130	
Benzo[k]fluoranthene	864	200	1290	126	32-130	
Chrysene	864	570	1880	152	41-130	F
Dibenz(a,h)anthracene	864	110	789	79	27-130	
Fluoranthene	864	760	3770	348	40-130	F
Fluorene	864	55 J	1080	119	40-130	
Indeno[1,2,3-cd]pyrene	864	180	834	76	30-130	
1-Methylnaphthalene	864	440	1360	106	31-130	
2-Methylnaphthalene	864	320	1340	118	33-130	
Naphthalene	864	290	1160	100	36-130	
Phenanthrene	864	770	3910	363	42-130	F
Pyrene	864	710	3270	296	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low Lab File ID: 1CC21038.D

Lab ID: 680-88298-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	965	559	58	15	40	39-130	
Acenaphthylene	965	608	63	10	40	38-130	
Anthracene	965	659	66	9	40	37-130	
Benzo[a]anthracene	965	771	71	4	40	40-130	
Benzo[a]pyrene	965	747	70	9	40	49-130	
Benzo[b]fluoranthene	965	879	80	4	40	37-130	
Benzo[g,h,i]perylene	965	555	54	4	40	32-130	
Benzo[k]fluoranthene	965	747	72	4	40	32-130	
Chrysene	965	751	69	1	40	41-130	
Dibenz(a,h)anthracene	965	551	55	8	40	27-130	
Fluoranthene	965	1000	88	25	40	40-130	
Fluorene	965	685	70	4	40	40-130	
Indeno[1,2,3-cd]pyrene	965	591	58	5	40	30-130	
1-Methylnaphthalene	965	718	70	5	40	31-130	
2-Methylnaphthalene	965	667	63	4	40	33-130	
Naphthalene	965	648	58	5	40	36-130	
Phenanthrene	965	918	84	18	40	42-130	
Pyrene	965	1020	91	18	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.: 680-88298-1

SDG No.: 68088298-1

Matrix: Solid Level: Low Lab File ID: 1CC20038.D

Lab ID: 680-88298-4 MSD Client ID: CV0169B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	862	580	67	34	40	39-130	
Acenaphthylene	862	724	78	1	40	38-130	
Anthracene	862	820	86	38	40	37-130	
Benzo[a]anthracene	862	1360	99	42	40	40-130	F
Benzo[a]pyrene	862	1090	83	40	40	49-130	
Benzo[b]fluoranthene	862	1420	101	48	40	37-130	F
Benzo[g,h,i]perylene	862	809	60	28	40	32-130	
Benzo[k]fluoranthene	862	1190	115	8	40	32-130	
Chrysene	862	1330	89	34	40	41-130	
Dibenz(a,h)anthracene	862	634	61	22	40	27-130	
Fluoranthene	862	2140	160	55	40	40-130	F
Fluorene	862	774	83	33	40	40-130	
Indeno[1,2,3-cd]pyrene	862	872	80	4	40	30-130	
1-Methylnaphthalene	862	1080	73	23	40	31-130	
2-Methylnaphthalene	862	953	73	34	40	33-130	
Naphthalene	862	1000	82	15	40	36-130	
Phenanthrene	862	2060	150	62	40	42-130	F
Pyrene	862	2070	158	45	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1CC20029.D Lab Sample ID: MB 660-135524/1-A

Matrix: Solid Date Extracted: 03/19/2013 08:27

Instrument ID: BSMC5973 Date Analyzed: 03/20/2013 18:35

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CV0614B-CS-SP	680-88298-8	1DC20014.D	03/20/2013 16:39
CV1033A-CSD	680-88298-9	1DC20015.D	03/20/2013 17:02
CV1033A-CS	680-88298-10	1DC20016.D	03/20/2013 17:24
CV1149A-CS	680-88298-11	1DC20017.D	03/20/2013 17:47
CV1149B-CS	680-88298-12	1DC20018.D	03/20/2013 18:10
CV1199A-CS	680-88298-13	1DC20019.D	03/20/2013 18:32
	LCS 660-135524/2-A	1CC20030.D	03/20/2013 18:54
CV1199B-CS	680-88298-14	1DC20020.D	03/20/2013 18:55
CV1310A-CS	680-88298-15	1DC20021.D	03/20/2013 19:17
CV1355A-CS	680-88298-16	1DC20022.D	03/20/2013 19:40
CV0150A-CS-SP	680-88298-1	1CC20033.D	03/20/2013 19:49
CV1355B-CS	680-88298-17	1DC20023.D	03/20/2013 20:02
CV0150B-CS-SP	680-88298-2	1CC20034.D	03/20/2013 20:07
CV0169A-CS-SP	680-88298-3	1CC20035.D	03/20/2013 20:25
FM0020A-CS	680-88298-18	1DC20024.D	03/20/2013 20:25
CV0169B-CS-SP	680-88298-4	1CC20036.D	03/20/2013 20:44
CV0169B-CS-SP MS	680-88298-4 MS	1CC20037.D	03/20/2013 21:02
CV0169B-CS-SP MSD	680-88298-4 MSD	1CC20038.D	03/20/2013 21:20
CV0227A-CS-SP	680-88298-5	1CC20039.D	03/20/2013 21:39
CV0227B-CS-SP	680-88298-6	1CC20040.D	03/20/2013 21:57
CV0614A-CS-SP	680-88298-7	1CC20041.D	03/20/2013 22:16
CV1033A-CS DL	680-88298-10 DL	1CC21013.D	03/21/2013 14:37

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1CC21032.D Lab Sample ID: MB 660-135556/1-A

Matrix: Solid Date Extracted: 03/20/2013 08:31

Instrument ID: BSMC5973 Date Analyzed: 03/21/2013 20:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135556/2-A	1CC21033.D	03/21/2013 20:46
FM0020B-CS	680-88298-19	1CC21034.D	03/21/2013 21:04
FM0020B-CSD	680-88298-20	1CC21035.D	03/21/2013 21:22
	680-88298-A-21-B MS	1CC21037.D	03/21/2013 21:59
	680-88298-A-21-C MSD	1CC21038.D	03/21/2013 22:17

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.3	
68	Less than 2.0 % of mass 69	0.6	(1.1)1
69	Mass 69 relative abundance	59.2	
70	Less than 2.0 % of mass 69	0.3	(0.4)1
127	10.0 - 80.0 % of mass 198	53.6	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	8.6	
275	10.0 - 60.0 % of mass 198	19.2	
365	Greater than 1.0 % of mass 198	2.0	
441	Present but less than mass 443	7.5	
442	Greater than 50.0 % of mass 198	52.1	
443	15.0 - 24.0 % of mass 442	8.7	(16.7)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
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1CC20002.D DFTPP Injection Date: 03/20/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:19

Analysis Batch No.: 135624

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.6	
68	Less than 2.0 % of mass 69	1.0	(1.9)1
69	Mass 69 relative abundance	53.3	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	53.3	
197	Less than 2.0 % of mass 198	1.2	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.4	
275	10.0 - 60.0 % of mass 198	17.8	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	7.3	
442	Greater than 50.0 % of mass 198	53.6	
443	15.0 - 24.0 % of mass 442	9.5	(17.7)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 660-135624/3	1CC20003.D	03/20/2013	10:36
	MB 660-135524/1-A	1CC20029.D	03/20/2013	18:35
	LCS 660-135524/2-A	1CC20030.D	03/20/2013	18:54
CV0150A-CS-SP	680-88298-1	1CC20033.D	03/20/2013	19:49
CV0150B-CS-SP	680-88298-2	1CC20034.D	03/20/2013	20:07
CV0169A-CS-SP	680-88298-3	1CC20035.D	03/20/2013	20:25
CV0169B-CS-SP	680-88298-4	1CC20036.D	03/20/2013	20:44
CV0169B-CS-SP MS	680-88298-4 MS	1CC20037.D	03/20/2013	21:02
CV0169B-CS-SP MSD	680-88298-4 MSD	1CC20038.D	03/20/2013	21:20
CV0227A-CS-SP	680-88298-5	1CC20039.D	03/20/2013	21:39
CV0227B-CS-SP	680-88298-6	1CC20040.D	03/20/2013	21:57
CV0614A-CS-SP	680-88298-7	1CC20041.D	03/20/2013	22:16

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1CC21003.D DFTPP Injection Date: 03/21/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:33

Analysis Batch No.: 135643

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	33.5	
68	Less than 2.0 % of mass 69	0.6	(1.3)1
69	Mass 69 relative abundance	46.1	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	10.0 - 80.0 % of mass 198	41.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.1	
275	10.0 - 60.0 % of mass 198	21.4	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	73.5	
443	15.0 - 24.0 % of mass 442	14.8	(20.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135643/4	1CC21004.D	03/21/2013	11:50
CV1033A-CS DL	680-88298-10 DL	1CC21013.D	03/21/2013	14:37
	MB 660-135556/1-A	1CC21032.D	03/21/2013	20:27
	LCS 660-135556/2-A	1CC21033.D	03/21/2013	20:46
FM0020B-CS	680-88298-19	1CC21034.D	03/21/2013	21:04
FM0020B-CSD	680-88298-20	1CC21035.D	03/21/2013	21:22
	680-88298-A-21-B MS	1CC21037.D	03/21/2013	21:59
	680-88298-A-21-C MSD	1CC21038.D	03/21/2013	22:17

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.6	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.9	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	64.5	
443	15.0 - 24.0 % of mass 442	13.2	(20.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab File ID: 1DC20002.D DFTPP Injection Date: 03/20/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:24

Analysis Batch No.: 135596

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	39.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.5	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	47.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	29.5	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	15.8	
442	Greater than 50.0 % of mass 198	99.7	
443	15.0 - 24.0 % of mass 442	19.2	(19.2)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135596/13	1DC20012.D	03/20/2013	15:54
CV0614B-CS-SP	680-88298-8	1DC20014.D	03/20/2013	16:39
CV1033A-CSD	680-88298-9	1DC20015.D	03/20/2013	17:02
CV1033A-CS	680-88298-10	1DC20016.D	03/20/2013	17:24
CV1149A-CS	680-88298-11	1DC20017.D	03/20/2013	17:47
CV1149B-CS	680-88298-12	1DC20018.D	03/20/2013	18:10
CV1199A-CS	680-88298-13	1DC20019.D	03/20/2013	18:32
CV1199B-CS	680-88298-14	1DC20020.D	03/20/2013	18:55
CV1310A-CS	680-88298-15	1DC20021.D	03/20/2013	19:17
CV1355A-CS	680-88298-16	1DC20022.D	03/20/2013	19:40
CV1355B-CS	680-88298-17	1DC20023.D	03/20/2013	20:02
FM0020A-CS	680-88298-18	1DC20024.D	03/20/2013	20:25

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

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

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT		2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT		607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		1383069	3.80	1075067	4.89	2141313	5.85

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

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

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2424157	7.80	2664188	9.02		
UPPER LIMIT		4848314	8.30	5328376	9.52		
LOWER LIMIT		1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		2766374	7.80	3034368	9.02		

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: CCVIS 660-135624/3 Date Analyzed: 03/20/2013 10:36

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

Lab File ID (Standard): 1CC20003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		962073	3.75	727466	4.83	1356725	5.78
UPPER LIMIT		1924146	4.25	1454932	5.33	2713450	6.28
LOWER LIMIT		481037	3.25	363733	4.33	678363	5.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135524/1-A		928862	3.75	753395	4.83	1441239	5.78
LCS 660-135524/2-A		967491	3.75	748909	4.83	1418270	5.78
680-88298-1	CV0150A-CS-SP	1013132	3.75	757027	4.83	1445899	5.78
680-88298-2	CV0150B-CS-SP	971098	3.75	761710	4.83	1399233	5.78
680-88298-3	CV0169A-CS-SP	960242	3.75	753852	4.83	1341634	5.78
680-88298-4	CV0169B-CS-SP	934634	3.75	725937	4.83	1339099	5.78
680-88298-4 MS	CV0169B-CS-SP MS	939529	3.75	748260	4.83	1331015	5.78
680-88298-4 MSD	CV0169B-CS-SP MSD	939866	3.75	736531	4.83	1336805	5.78
680-88298-5	CV0227A-CS-SP	973813	3.75	720399	4.83	1355150	5.78
680-88298-6	CV0227B-CS-SP	917807	3.75	707709	4.83	1350754	5.78
680-88298-7	CV0614A-CS-SP	920932	3.75	741148	4.83	1339806	5.78

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: CCVIS 660-135624/3 Date Analyzed: 03/20/2013 10:36

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

Lab File ID (Standard): 1CC20003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1690793	7.72	1664033	8.91		
UPPER LIMIT		3381586	8.22	3328066	9.41		
LOWER LIMIT		845397	7.22	832017	8.41		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135524/1-A		1511436	7.72	1436196	8.91		
LCS 660-135524/2-A		1580368	7.72	1426373	8.91		
680-88298-1	CV0150A-CS-SP	1489529	7.72	1399725	8.91		
680-88298-2	CV0150B-CS-SP	1464052	7.72	1366921	8.91		
680-88298-3	CV0169A-CS-SP	1431208	7.72	1390783	8.91		
680-88298-4	CV0169B-CS-SP	1455019	7.72	1351969	8.91		
680-88298-4 MS	CV0169B-CS-SP MS	1444709	7.72	1367105	8.91		
680-88298-4 MSD	CV0169B-CS-SP MSD	1436023	7.72	1374694	8.91		
680-88298-5	CV0227A-CS-SP	1389318	7.72	1345010	8.91		
680-88298-6	CV0227B-CS-SP	1387018	7.72	1350339	8.91		
680-88298-7	CV0614A-CS-SP	1420334	7.72	1344754	8.91		

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: CCVIS 660-135643/4 Date Analyzed: 03/21/2013 11:50

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

Lab File ID (Standard): 1CC21004.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		840044	3.74	651490	4.83	1219756	5.77
UPPER LIMIT		1680088	4.24	1302980	5.33	2439512	6.27
LOWER LIMIT		420022	3.24	325745	4.33	609878	5.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88298-10 DL	CV1033A-CS DL	1198173	3.74	933992	4.83	1760710	5.77
MB 660-135556/1-A		851567	3.74	663430	4.83	1242632	5.77
LCS 660-135556/2-A		931773	3.74	775277	4.83	1425754	5.77
680-88298-19	FM0020B-CS	927495	3.74	749296	4.83	1372231	5.77
680-88298-20	FM0020B-CSD	970949	3.74	773659	4.83	1371270	5.77
680-88298-A-21-B MS		984901	3.74	791260	4.83	1392985	5.77
680-88298-A-21-C MSD		969283	3.74	773955	4.83	1390983	5.77

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: CCVIS 660-135643/4 Date Analyzed: 03/21/2013 11:50

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

Lab File ID (Standard): 1CC21004.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1556594	7.72	1584646	8.90		
UPPER LIMIT		3113188	8.22	3169292	9.40		
LOWER LIMIT		778297	7.22	792323	8.40		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88298-10 DL	CV1033A-CS DL	1988295	7.72	1941475	8.90		
MB 660-135556/1-A		1292802	7.72	1269070	8.90		
LCS 660-135556/2-A		1511839	7.72	1425427	8.90		
680-88298-19	FM0020B-CS	1399354	7.72	1329026	8.90		
680-88298-20	FM0020B-CSD	1483310	7.72	1382648	8.90		
680-88298-A-21-B MS		1507020	7.72	1369916	8.90		
680-88298-A-21-C MSD		1480189	7.72	1390044	8.91		

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

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

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2851402	6.18	1685266	7.86	2758746	9.12
UPPER LIMIT		5702804	6.68	3370532	8.36	5517492	9.62
LOWER LIMIT		1425701	5.68	842633	7.36	1379373	8.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

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

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2741766	11.46	2903096	13.33		
UPPER LIMIT		5483532	11.96	5806192	13.83		
LOWER LIMIT		1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3262056	11.46	3389756	13.34		

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: CCVIS 660-135596/13 Date Analyzed: 03/20/2013 15:54

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

Lab File ID (Standard): 1DC20012.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3011179	6.13	1969002	7.81	3237717	9.07
UPPER LIMIT		6022358	6.63	3938004	8.31	6475434	9.57
LOWER LIMIT		1505590	5.63	984501	7.31	1618859	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88298-8	CV0614B-CS-SP	3194696	6.13	2128212	7.81	3513422	9.07
680-88298-9	CV1033A-CSD	3814104	6.14	2549874	7.81	4242021	9.07
680-88298-10	CV1033A-CS	3645418	6.13	2383529	7.81	3939532	9.08
680-88298-11	CV1149A-CS	3077427	6.14	1994073	7.81	3288895	9.08
680-88298-12	CV1149B-CS	3147404	6.14	2020540	7.81	3351855	9.07
680-88298-13	CV1199A-CS	3148011	6.14	2023365	7.81	3418567	9.07
680-88298-14	CV1199B-CS	3429848	6.14	2230806	7.81	3719913	9.08
680-88298-15	CV1310A-CS	3075227	6.14	1964013	7.81	3266292	9.07
680-88298-16	CV1355A-CS	3213373	6.14	2067452	7.81	3396885	9.08
680-88298-17	CV1355B-CS	3106112	6.14	1978729	7.81	3301452	9.08
680-88298-18	FM0020A-CS	3114229	6.14	1980774	7.81	3288383	9.08

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.: 680-88298-1

SDG No.: 68088298-1

Sample No.: CCVIS 660-135596/13 Date Analyzed: 03/20/2013 15:54

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

Lab File ID (Standard): 1DC20012.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3426351	11.41	3678477	13.28		
UPPER LIMIT		6852702	11.91	7356954	13.78		
LOWER LIMIT		1713176	10.91	1839239	12.78		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88298-8	CV0614B-CS-SP	3677948	11.41	3840604	13.29		
680-88298-9	CV1033A-CSD	4465434	11.42	4761433	13.30		
680-88298-10	CV1033A-CS	4158893	11.43	3543087	13.32		
680-88298-11	CV1149A-CS	3444310	11.42	3181709	13.29		
680-88298-12	CV1149B-CS	3450750	11.42	3228889	13.29		
680-88298-13	CV1199A-CS	3460644	11.42	3122002	13.30		
680-88298-14	CV1199B-CS	3832385	11.42	3336016	13.30		
680-88298-15	CV1310A-CS	3301503	11.42	2794959	13.29		
680-88298-16	CV1355A-CS	3533629	11.42	3017220	13.29		
680-88298-17	CV1355B-CS	3369562	11.42	2779750	13.29		
680-88298-18	FM0020A-CS	3328806	11.42	2766232	13.29		

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.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0150A-CS-SP | Lab Sample ID: 680-88298-1

Matrix: Solid | Lab File ID: 1CC20033.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 09:35

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.06(g) | Date Analyzed: 03/20/2013 19:49

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

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

% Moisture: 23.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	37	J	44	22
56-55-3	Benzo[a]anthracene	180		42	20
50-32-8	Benzo[a]pyrene	130		54	27
205-99-2	Benzo[b]fluoranthene	260		64	32
191-24-2	Benzo[g,h,i]perylene	110		100	23
207-08-9	Benzo[k]fluoranthene	100		42	19
218-01-9	Chrysene	200		47	24
53-70-3	Dibenz(a,h)anthracene	57	J	100	21
206-44-0	Fluoranthene	210		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	100		100	37
90-12-0	1-Methylnaphthalene	150	J	210	23
91-57-6	2-Methylnaphthalene	230		210	37
91-20-3	Naphthalene	180	J	210	23
85-01-8	Phenanthrene	230		42	20
129-00-0	Pyrene	190		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20033.D
Lab Smp Id: 680-88298-A-1-A Client Smp ID: CV0150A-CS-SP
Inj Date : 20-MAR-2013 19:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-1-a
Misc Info : 680-88298-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 33
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	23.831	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.745	3.745	(1.000)	1013132	40.0000	
*	6 Acenaphthene-d10	164	4.833	4.827	(1.000)	757027	40.0000	
*	10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1445899	40.0000	
$	14 o-Terphenyl	230	6.027	6.027	(1.043)	38829	1.77865	620.2196
*	18 Chrysene-d12	240	7.721	7.721	(1.000)	1489529	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	1399725	40.0000	
	2 Naphthalene	128	3.757	3.757	(1.003)	13299	0.50421	175.8210
	3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	11667	0.66313	231.2367
	4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	6723	0.41957	146.3040
	11 Phenanthrene	178	5.792	5.792	(1.002)	27341	0.65395	228.0340
	12 Anthracene	178	5.827	5.827	(1.008)	4342	0.10619	37.0287(Q)
	13 Carbazole	167	5.939	5.933	(1.027)	4014	0.11043	38.5087
	15 Fluoranthene	202	6.633	6.633	(1.148)	27269	0.59558	207.6789
	16 Pyrene	202	6.798	6.798	(0.880)	21961	0.54863	191.3079

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	22638	0.52658	183.6195
19 Chrysene	228	7.739	7.739	(1.002)	24923	0.57930	202.0017
20 Benzo(b)fluoranthene	252	8.557	8.562	(0.960)	27703	0.75733	264.0815
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	11054	0.29457	102.7186
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	13477	0.37930	132.2631
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	9941	0.29741	103.7090(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	5300	0.16211	56.5276(M)
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	10822	0.30951	107.9263

QC Flag Legend

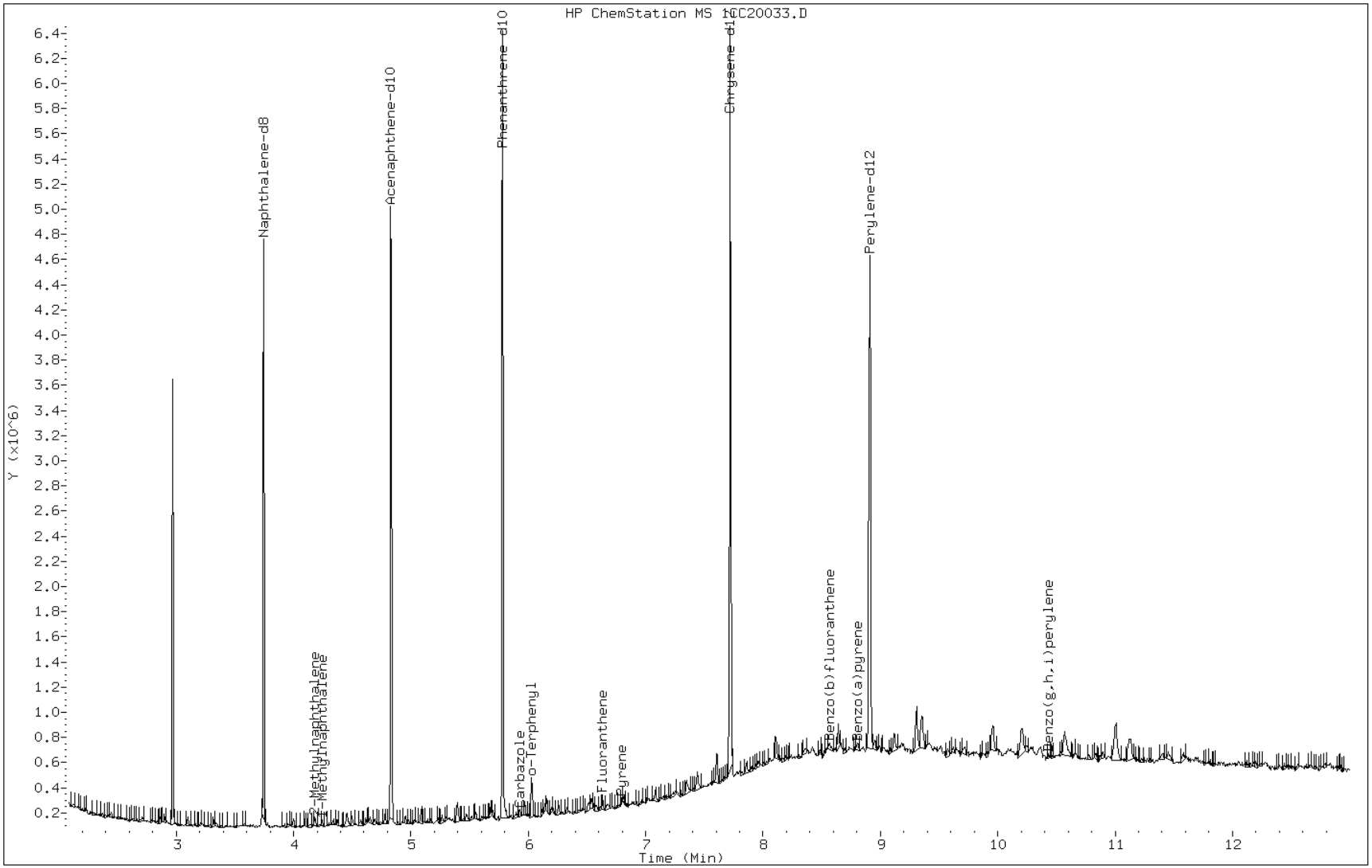
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC



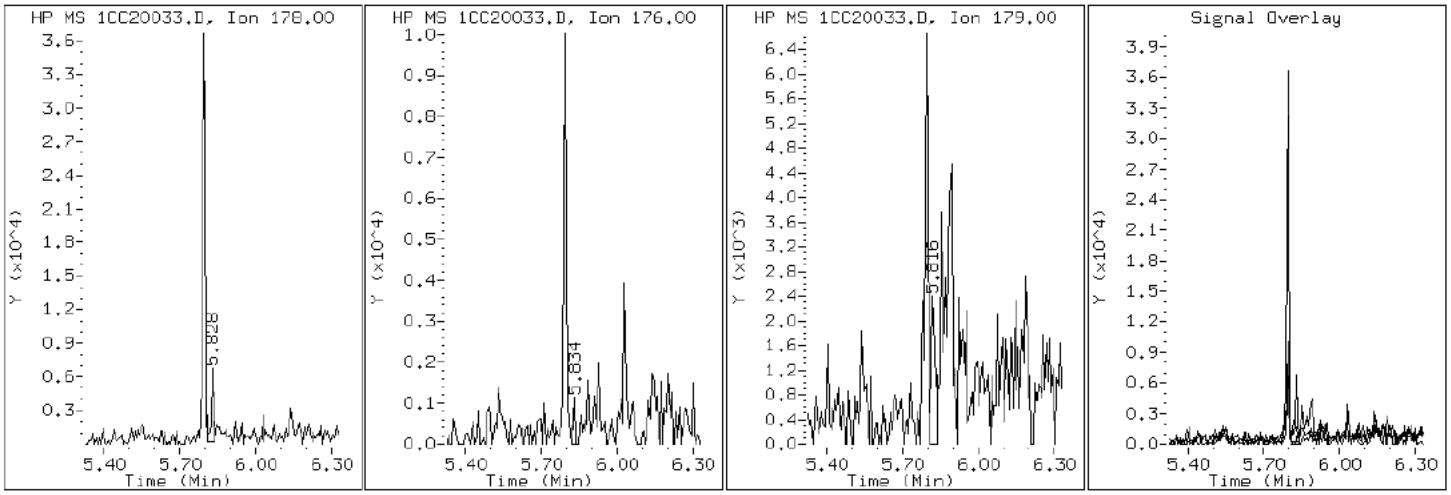
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

12 Anthracene



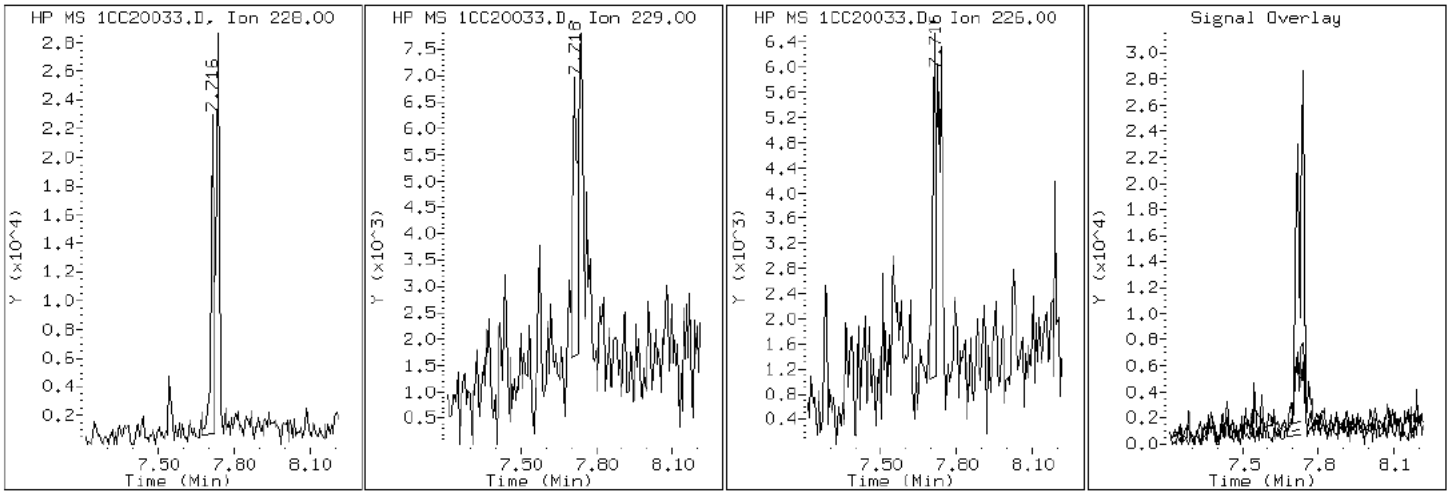
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

17 Benzo(a)anthracene



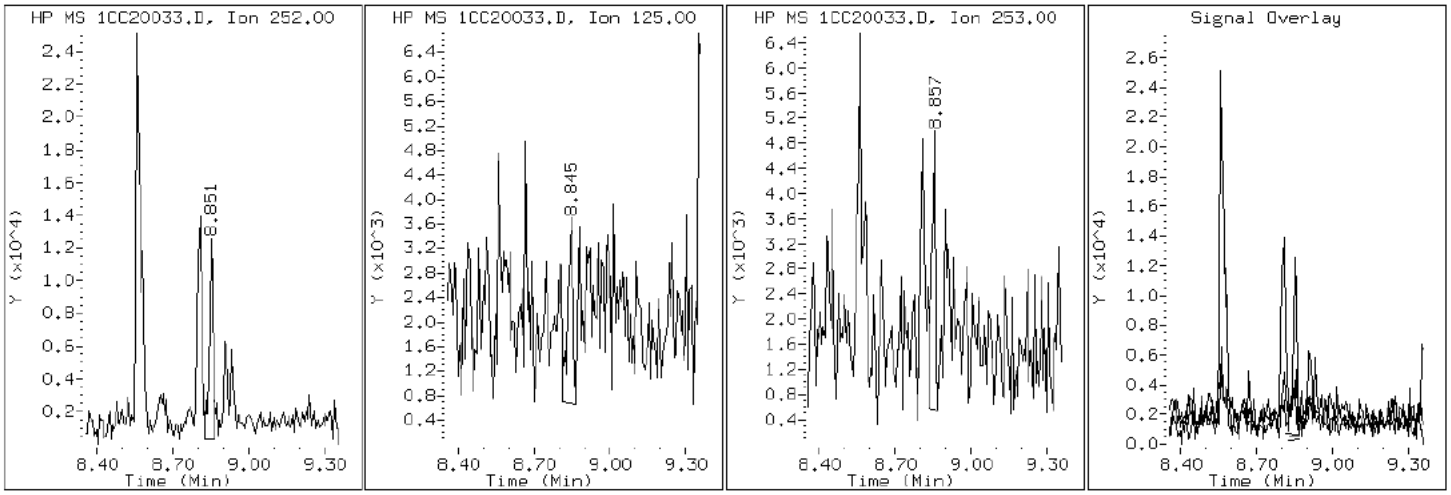
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

22 Benzo(a)pyrene



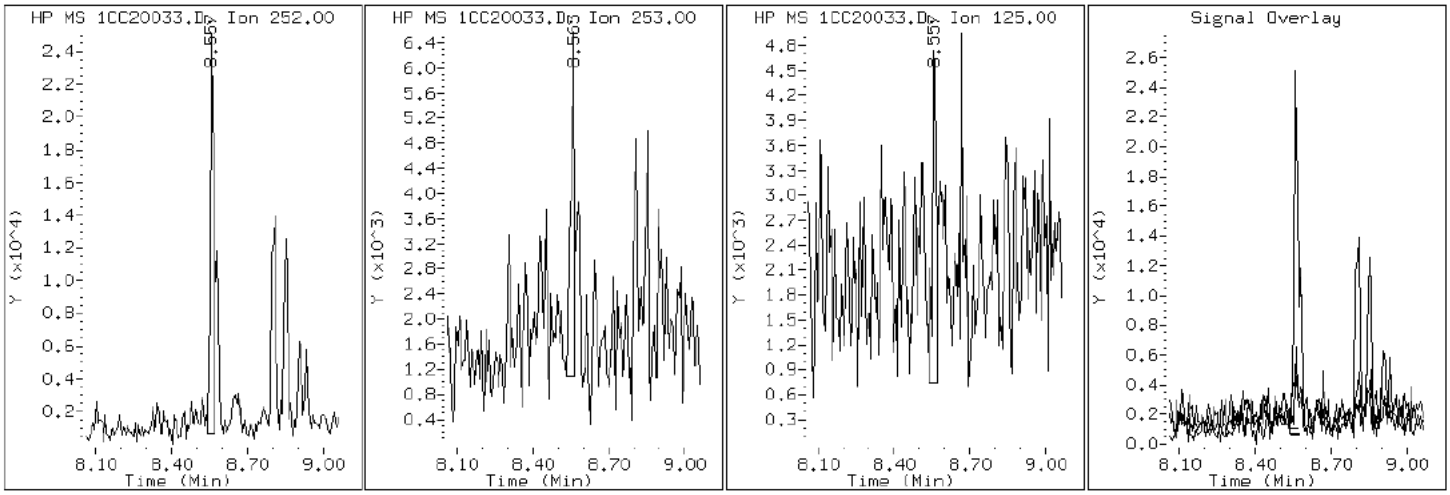
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



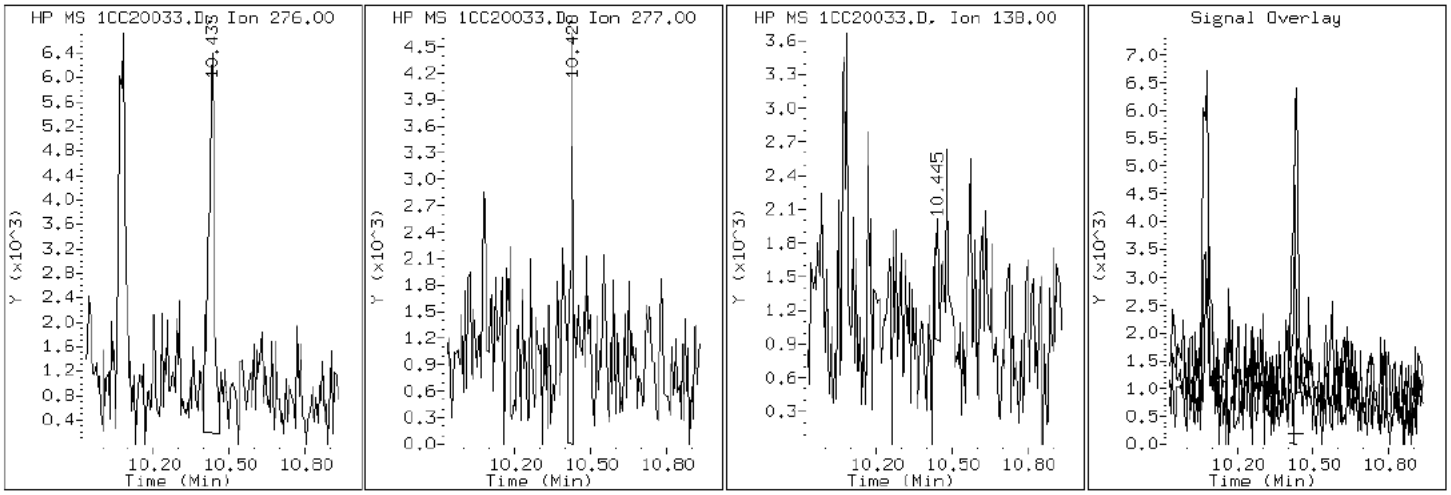
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



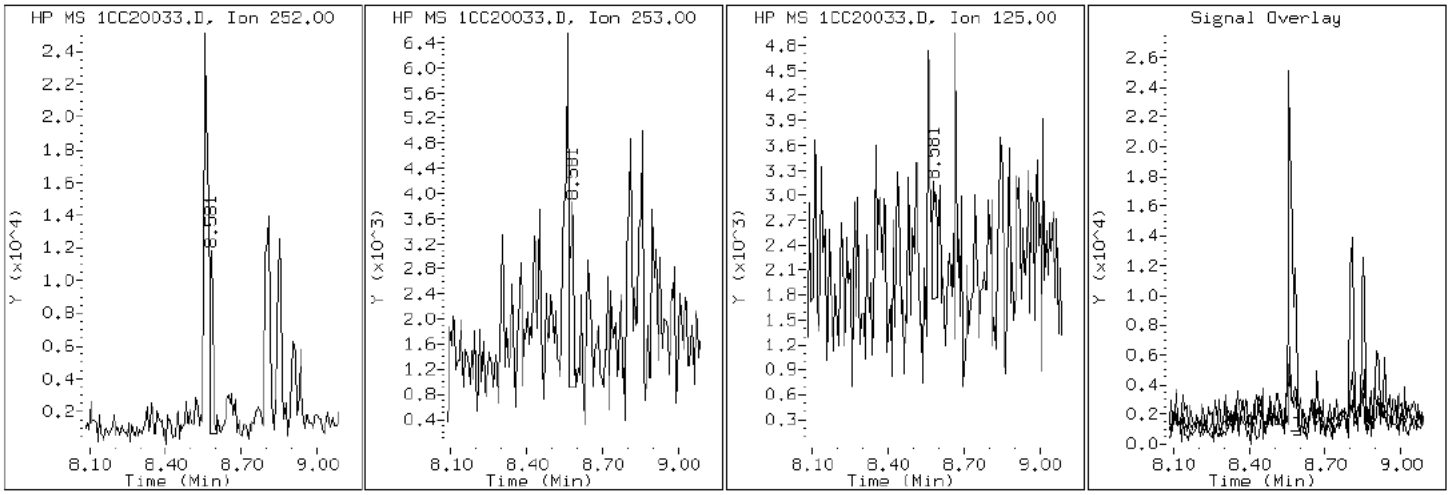
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



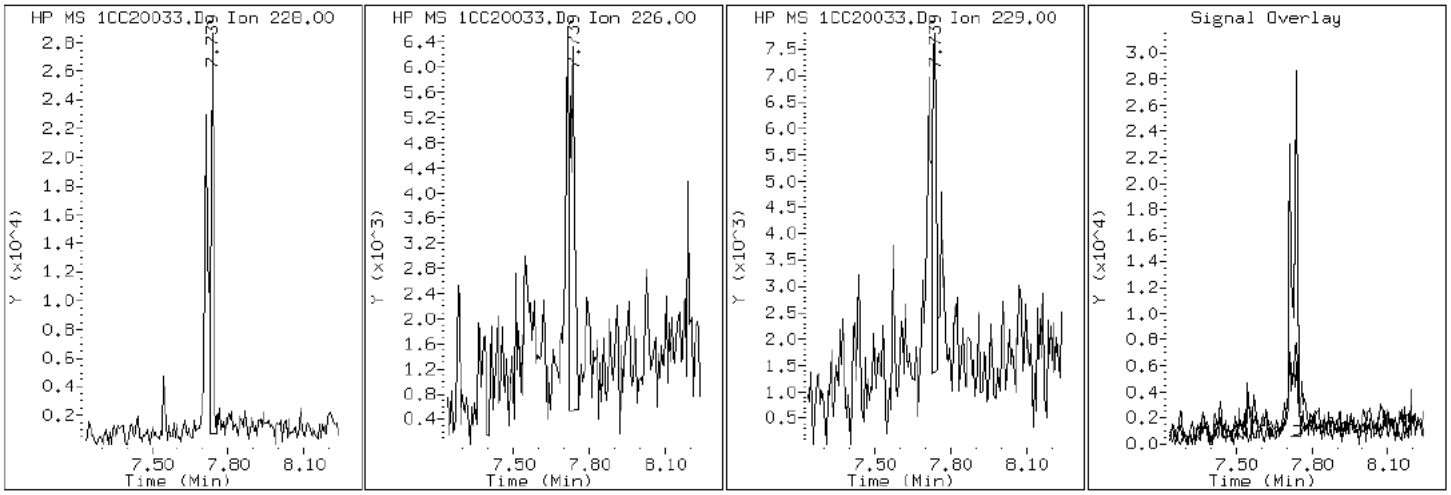
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

19 Chrysene



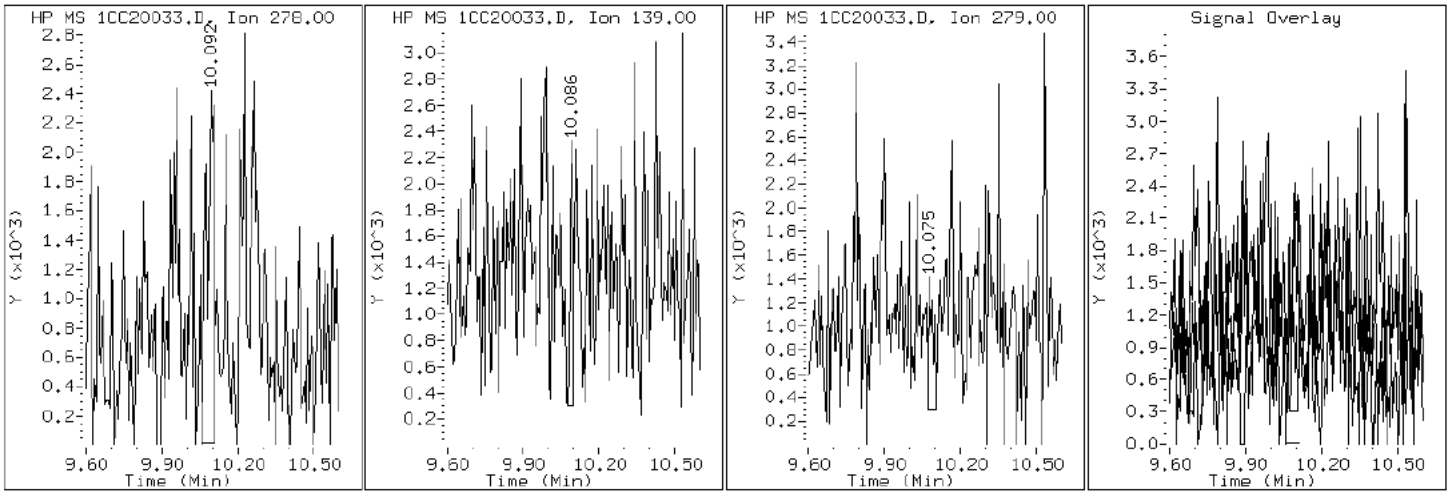
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



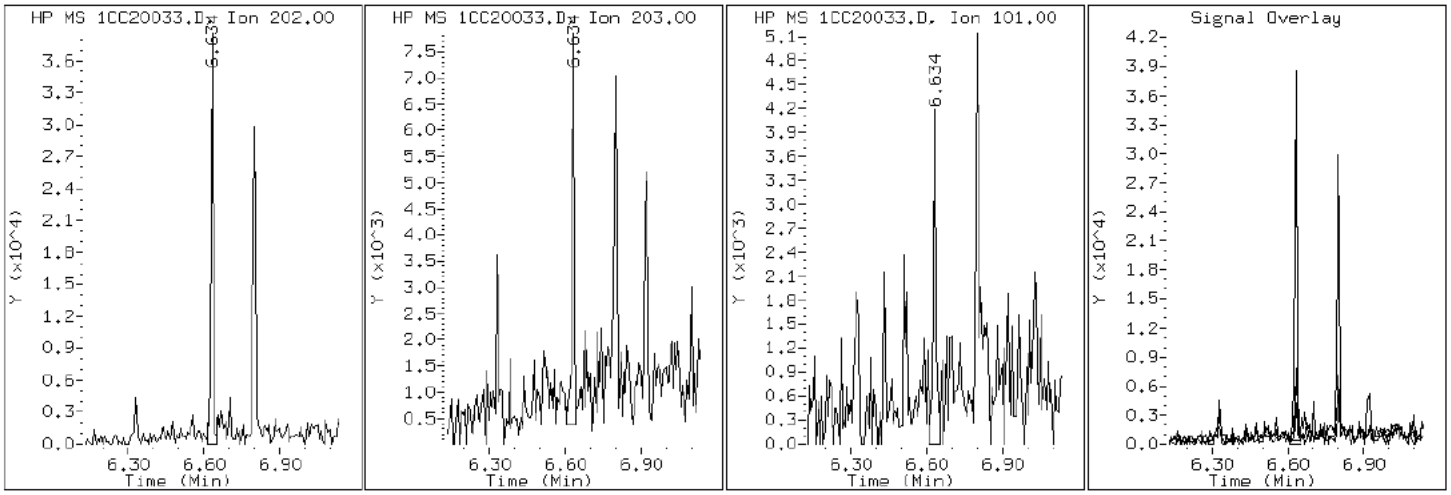
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

15 Fluoranthene



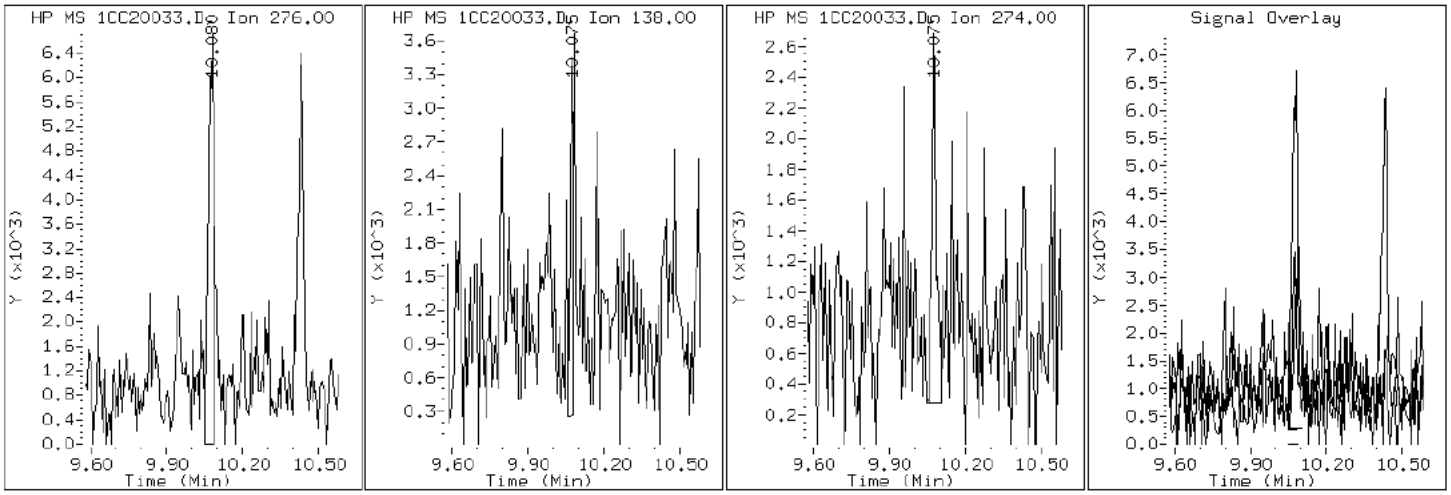
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

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



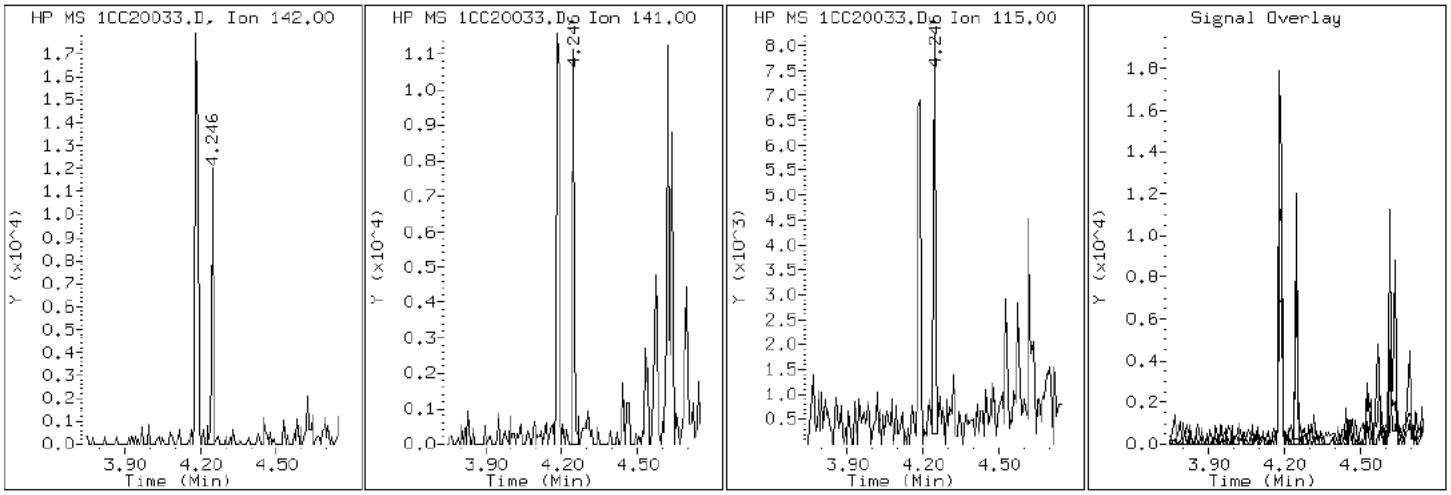
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

4 1-Methylnaphthalene



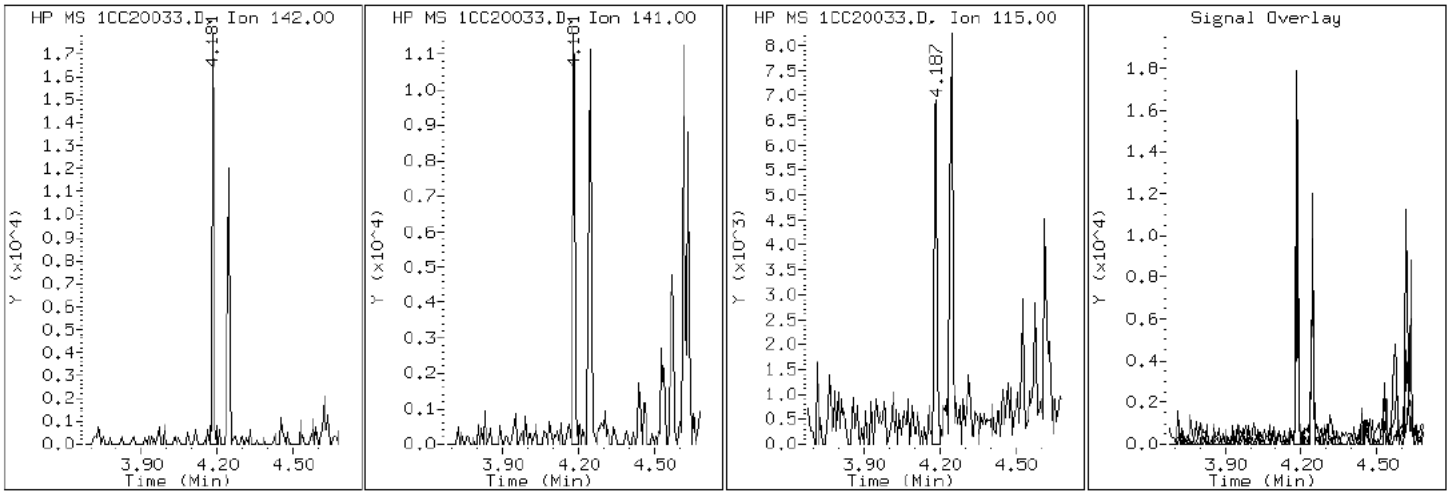
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

3 2-Methylnaphthalene



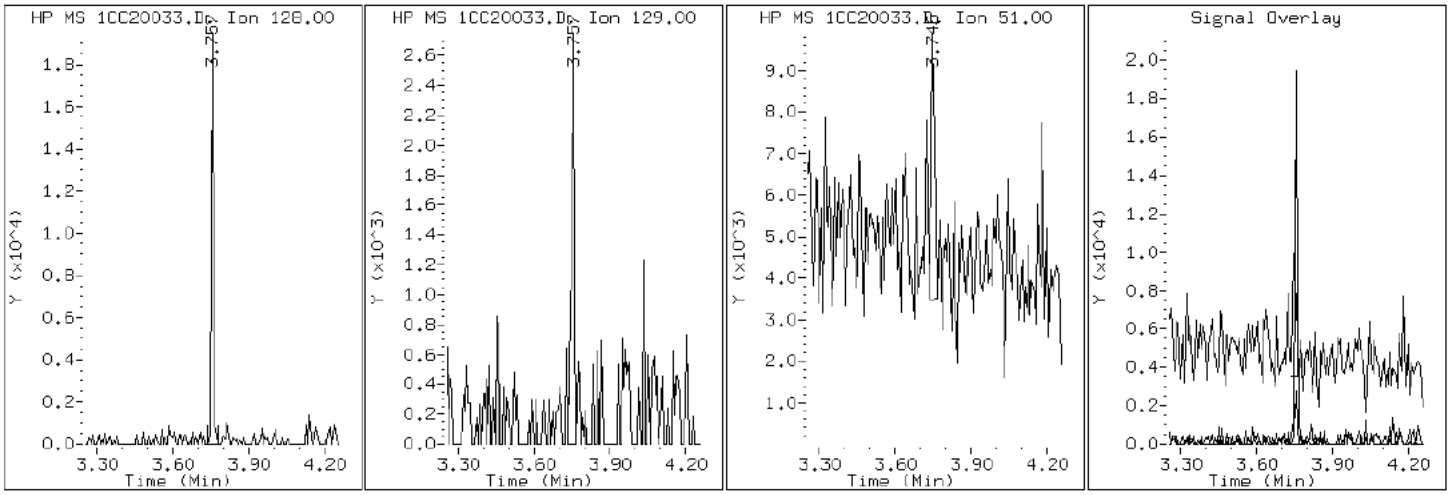
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

2 Naphthalene



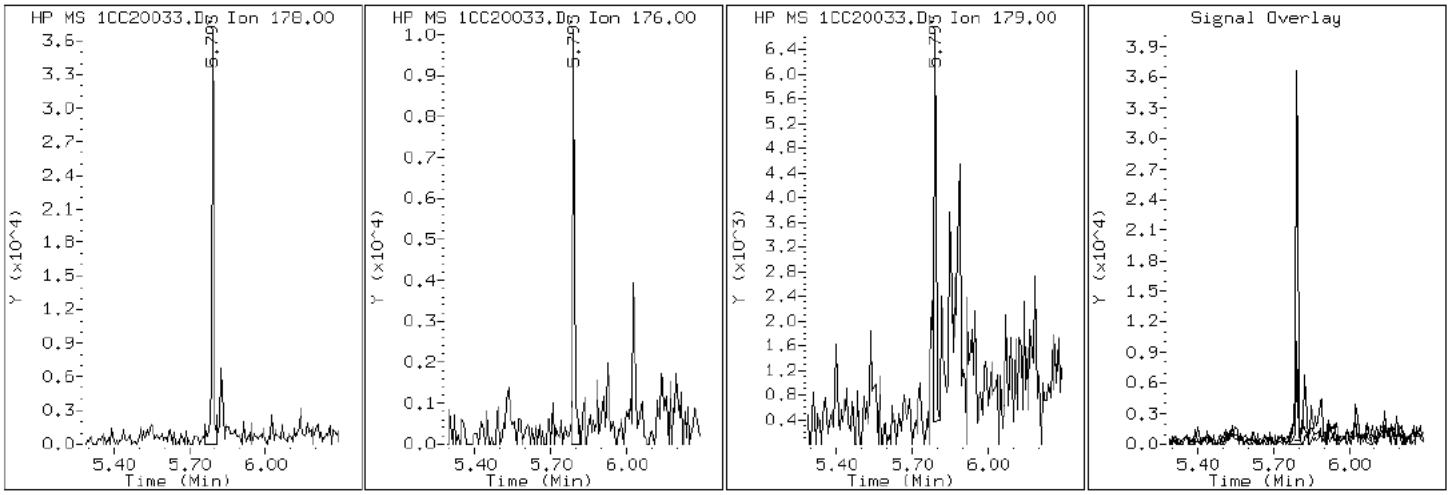
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

11 Phenanthrene



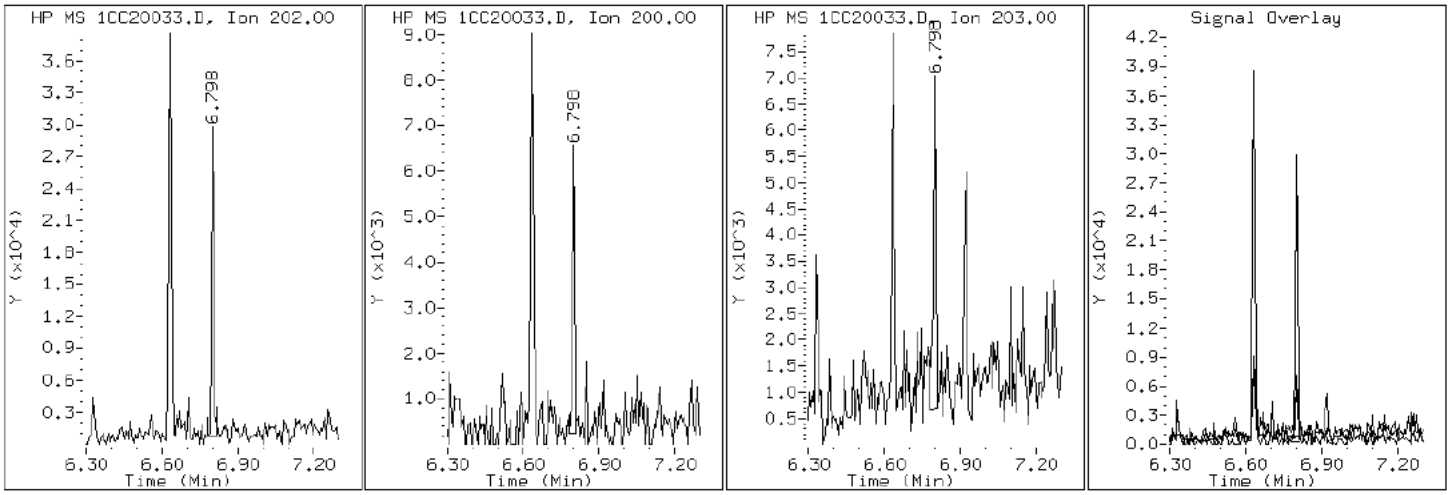
Data File: 1CC20033.D

Date: 20-MAR-2013 19:49

Client ID: CV0150A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20033.D
Inj. Date and Time: 20-MAR-2013 19:49
Instrument ID: BSMC5973.i
Client ID: CV0150A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/21/2013

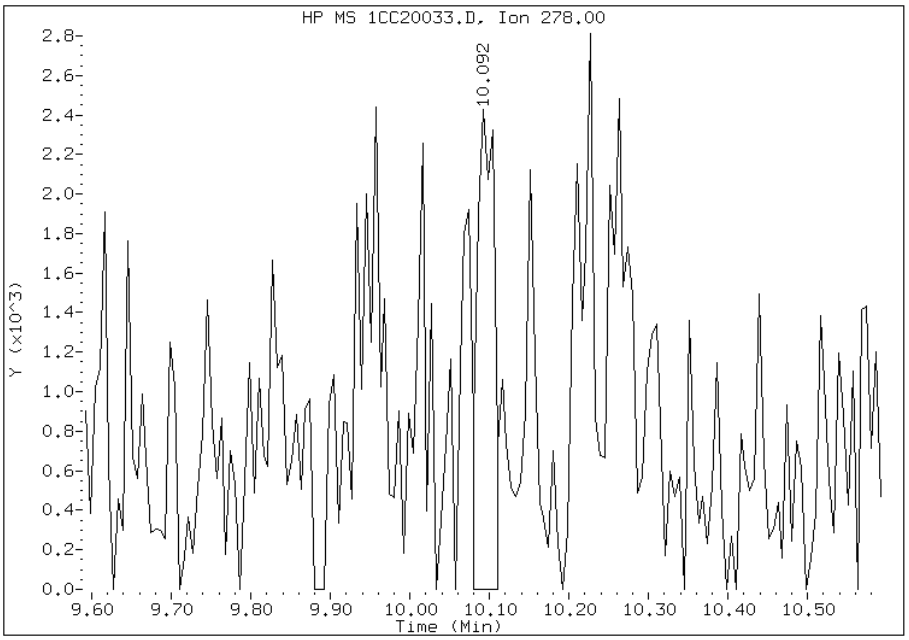
Processing Integration Results

RT: 10.09

Response: 3639

Amount: 0

Conc: 39



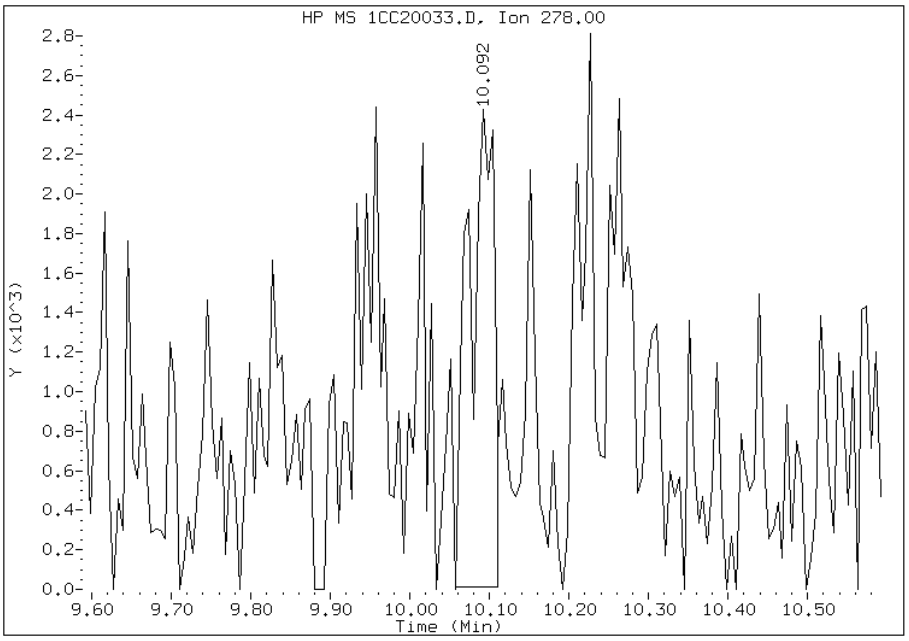
Manual Integration Results

RT: 10.09

Response: 5300

Amount: 0

Conc: 57



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20033.D
Inj. Date and Time: 20-MAR-2013 19:49
Instrument ID: BSMC5973.i
Client ID: CV0150A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

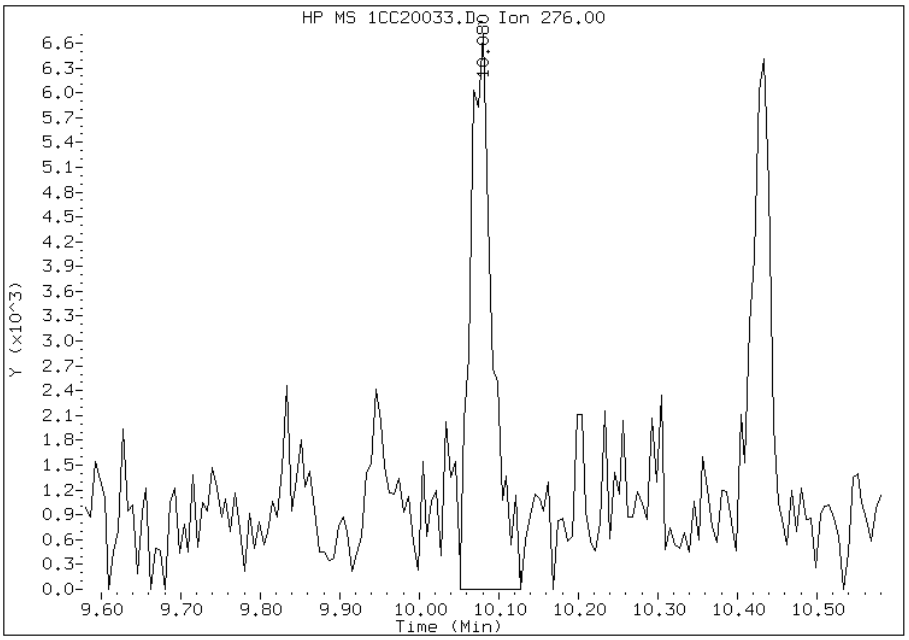
Processing Integration Results

RT: 10.08

Response: 13223

Amount: 0

Conc: 138



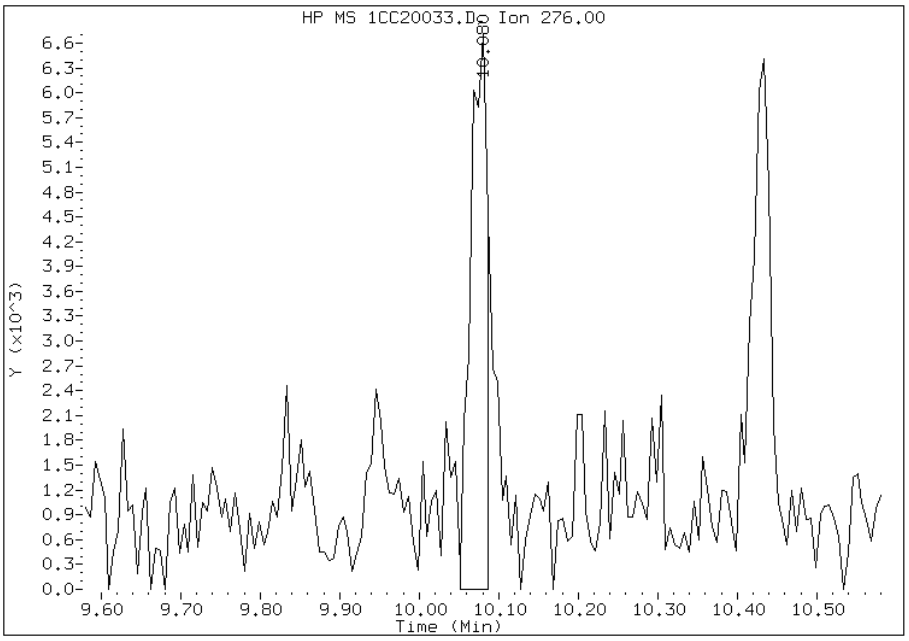
Manual Integration Results

RT: 10.08

Response: 9941

Amount: 0

Conc: 104



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0150B-CS-SP | Lab Sample ID: 680-88298-2

Matrix: Solid | Lab File ID: 1CC20034.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 09:47

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.04(g) | Date Analyzed: 03/20/2013 20:07

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

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

% Moisture: 23.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	42	J	52	6.5
120-12-7	Anthracene	57		11	5.5
56-55-3	Benzo[a]anthracene	190		10	5.1
50-32-8	Benzo[a]pyrene	210		14	6.8
205-99-2	Benzo[b]fluoranthene	350		16	8.0
191-24-2	Benzo[g,h,i]perylene	140		26	5.8
207-08-9	Benzo[k]fluoranthene	130		10	4.7
218-01-9	Chrysene	300		12	5.9
53-70-3	Dibenz(a,h)anthracene	51		26	5.4
206-44-0	Fluoranthene	370		26	5.2
86-73-7	Fluorene	26		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	88		26	9.3
90-12-0	1-Methylnaphthalene	91		52	5.8
91-57-6	2-Methylnaphthalene	110		52	9.3
91-20-3	Naphthalene	120		52	5.8
85-01-8	Phenanthrene	280		10	5.1
129-00-0	Pyrene	340		26	4.8

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\1C032013.b\1CC20034.D
Lab Smp Id: 680-88298-A-2-A Client Smp ID: CV0150B-CS-SP
Inj Date : 20-MAR-2013 20:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-2-a
Misc Info : 680-88298-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	23.780	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	971098	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	761710	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1399233	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	173042	8.19094	714.5285
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1464052	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1366921	40.0000	
2 Naphthalene	128	3.757	3.757	(1.003)	35057	1.38667	120.9652
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	20787	1.23264	107.5283
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	15982	1.04057	90.7733
5 Acenaphthylene	152	4.745	4.745	(0.983)	14789	0.48157	42.0095
9 Fluorene	166	5.168	5.169	(1.071)	7137	0.29565	25.7907(Q)
11 Phenanthrene	178	5.792	5.792	(1.002)	129880	3.21011	280.0311
12 Anthracene	178	5.827	5.827	(1.008)	25906	0.65470	57.1121
13 Carbazole	167	5.933	5.933	(1.026)	19460	0.55324	48.2617

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	190044	4.28914	374.1589
16 Pyrene	202	6.798	6.798	(0.880)	154588	3.92911	342.7520
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	93996	2.22447	194.0499
19 Chrysene	228	7.739	7.739	(1.002)	147477	3.48752	304.2301
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	142879	3.99967	348.9071(M)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	53925	1.47151	128.3659(QM)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	82709	2.38365	207.9354
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.080	(1.131)	33009	1.01126	88.2163(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.098	(1.132)	18690	0.58538	51.0651(M)
26 Benzo(g,h,i)perylene	276	10.439	10.433	(1.172)	53126	1.55586	135.7242

QC Flag Legend

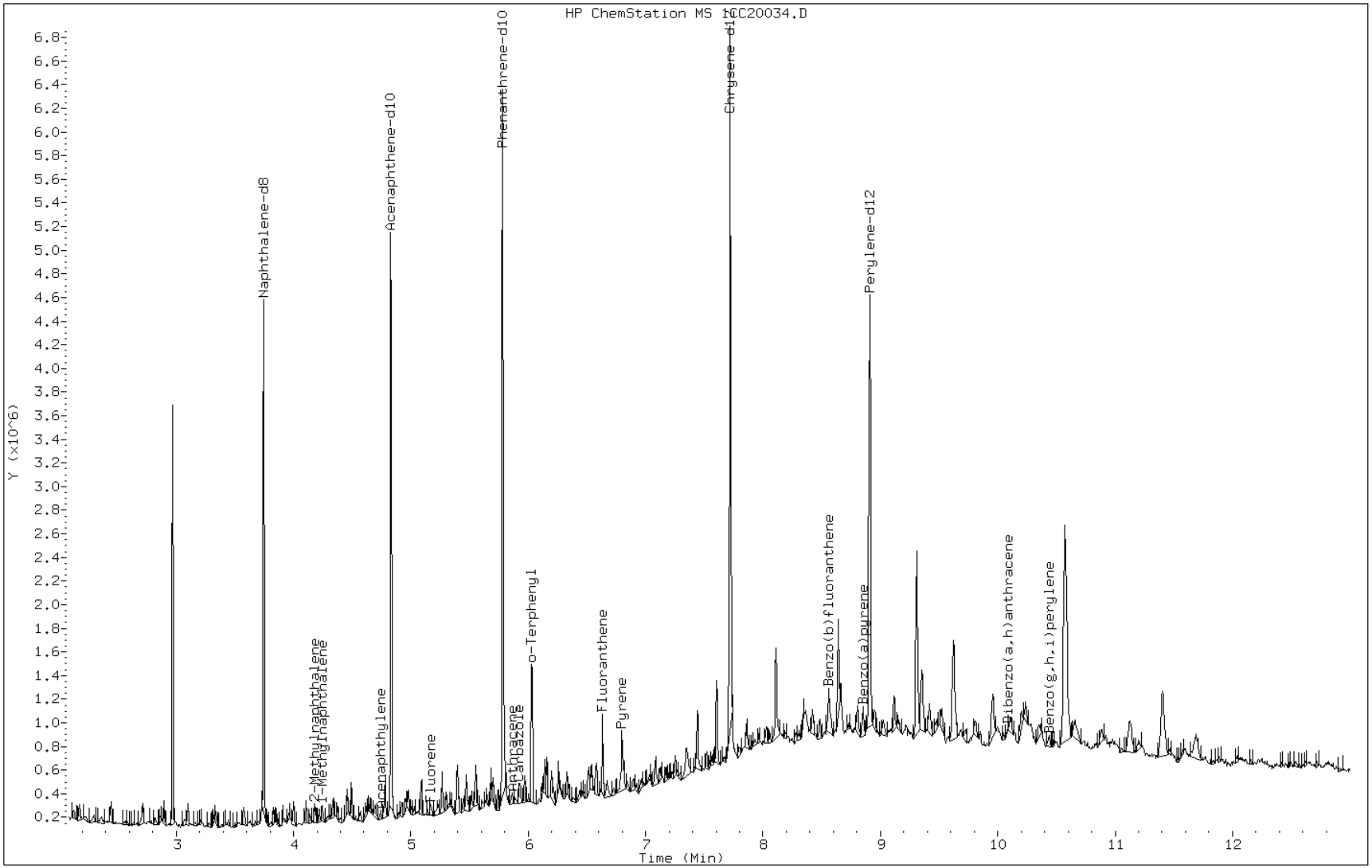
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC



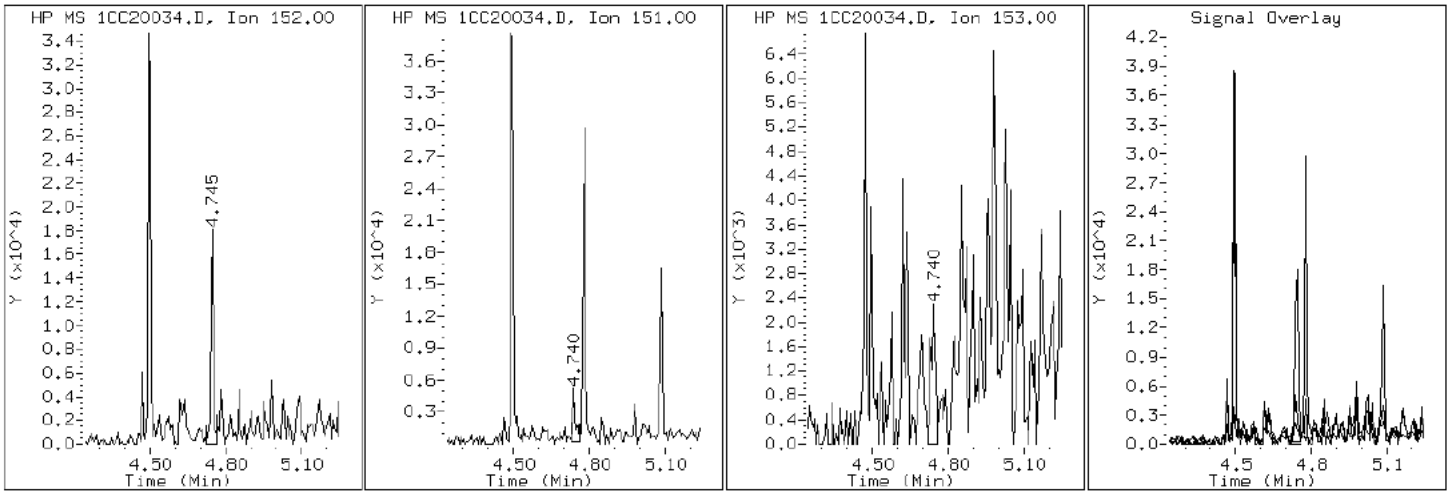
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

5 Acenaphthylene



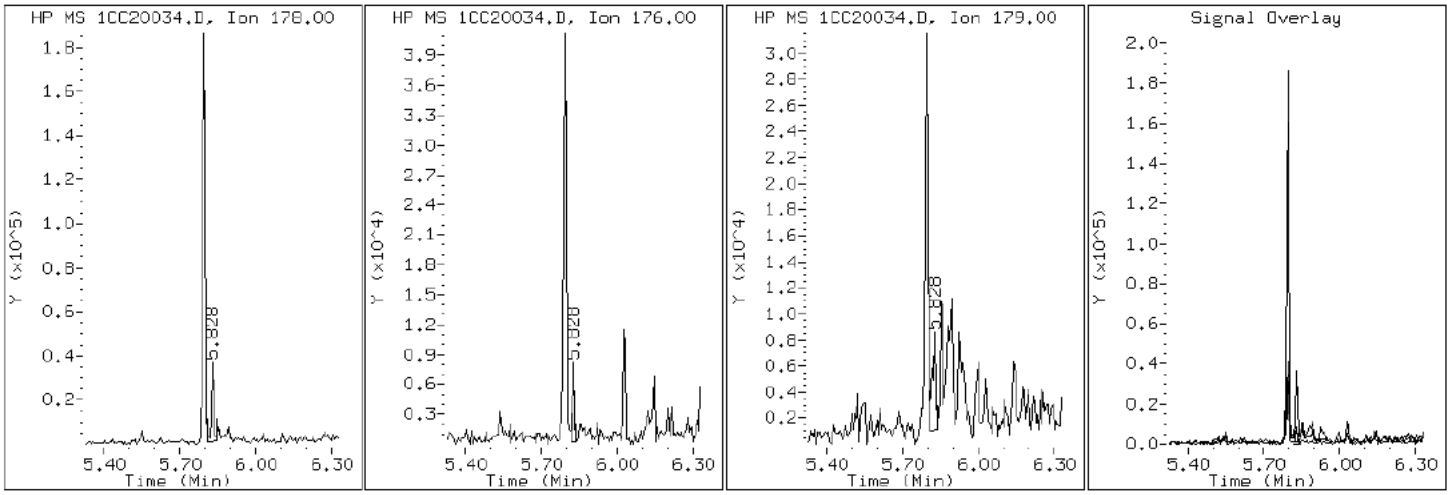
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

12 Anthracene



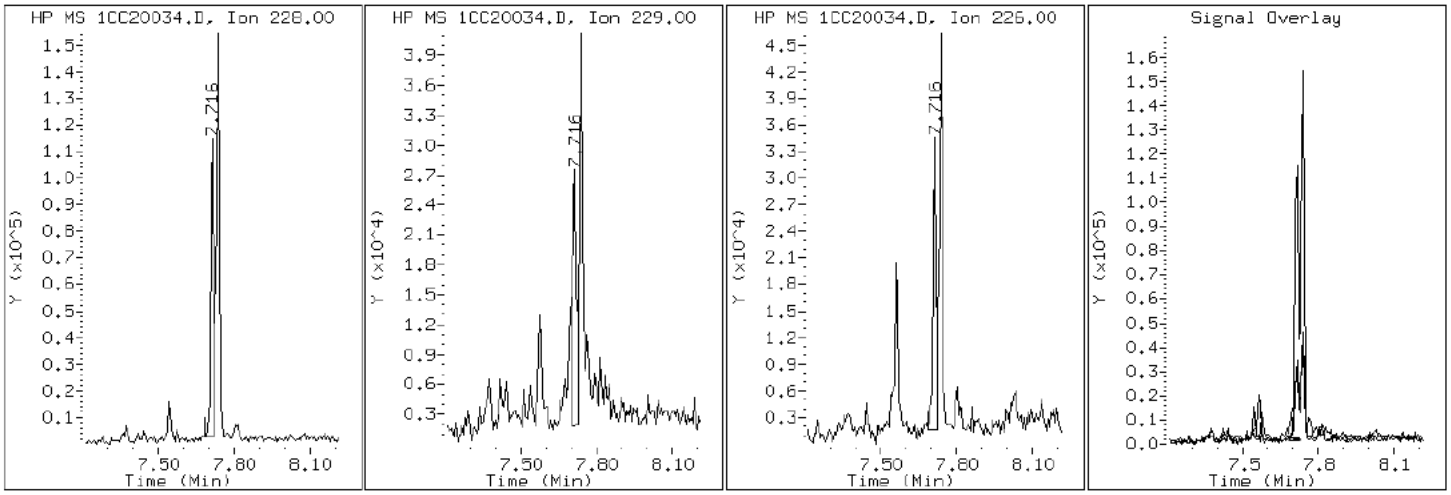
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

17 Benzo(a)anthracene



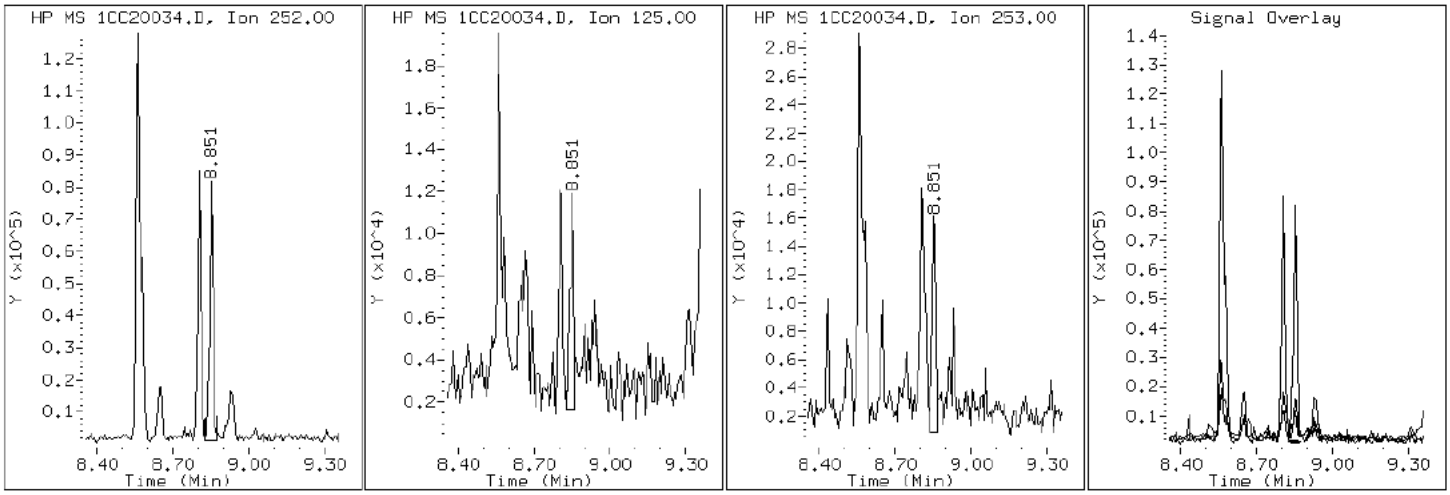
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

22 Benzo(a)pyrene



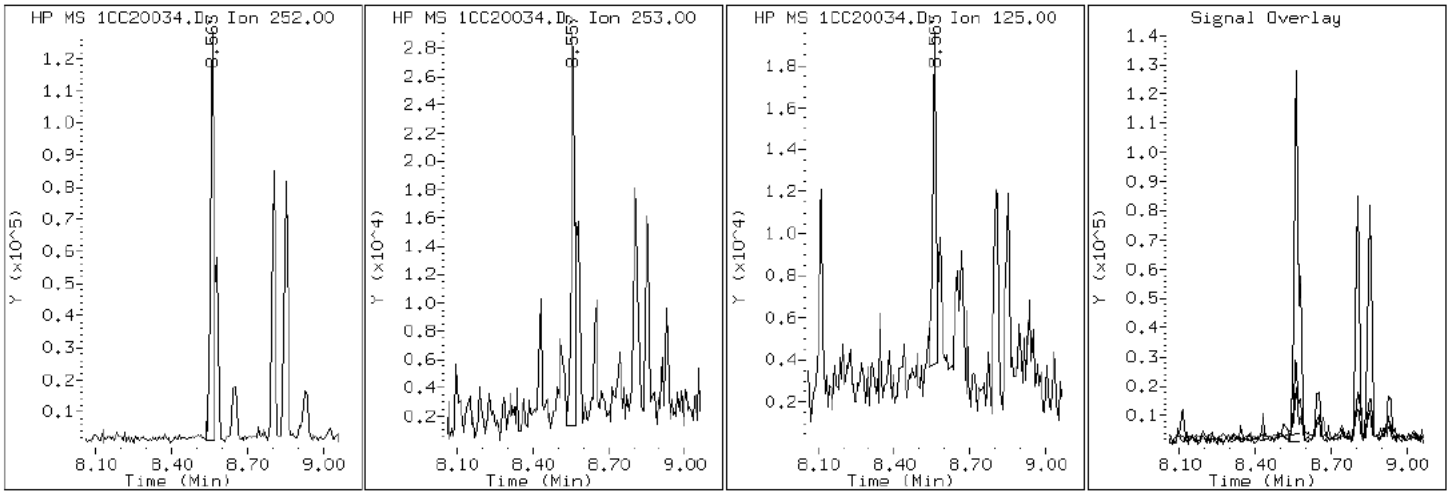
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



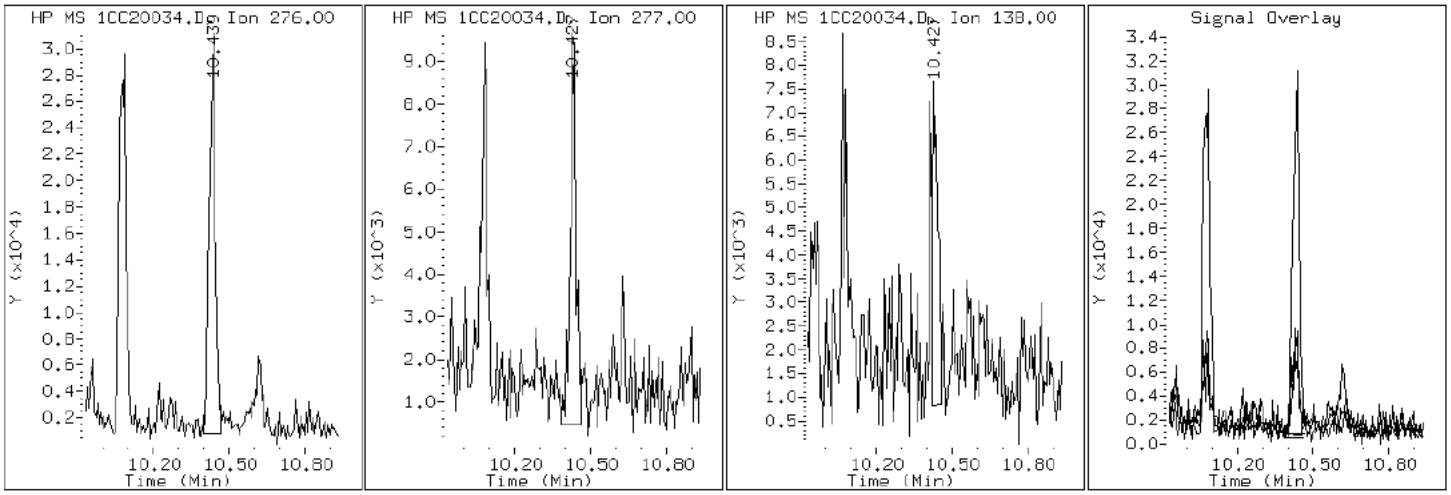
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



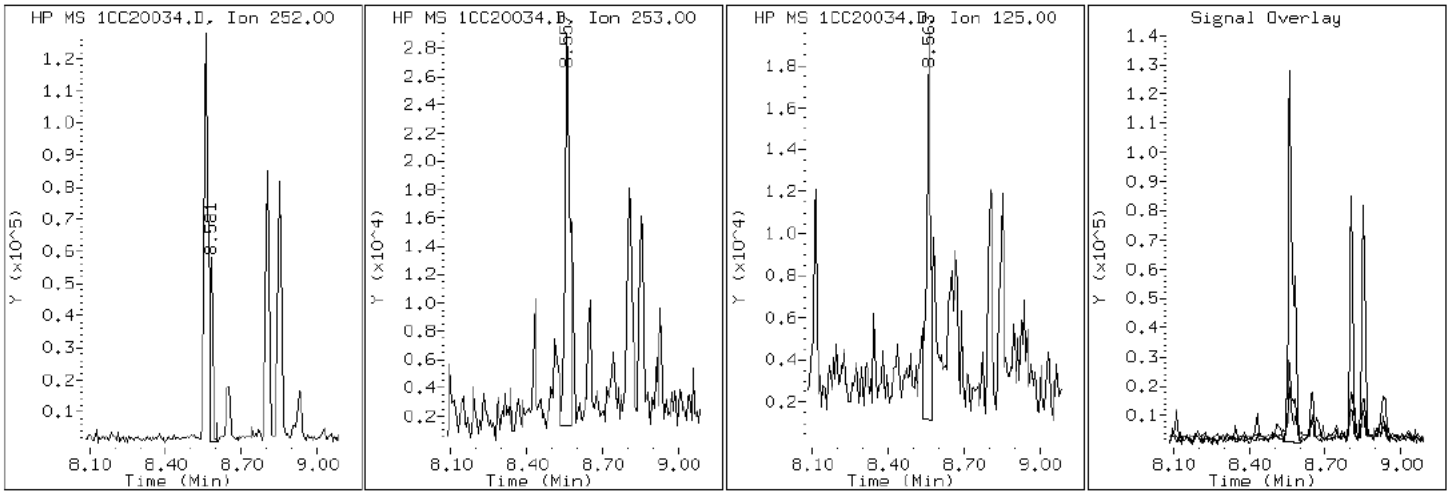
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



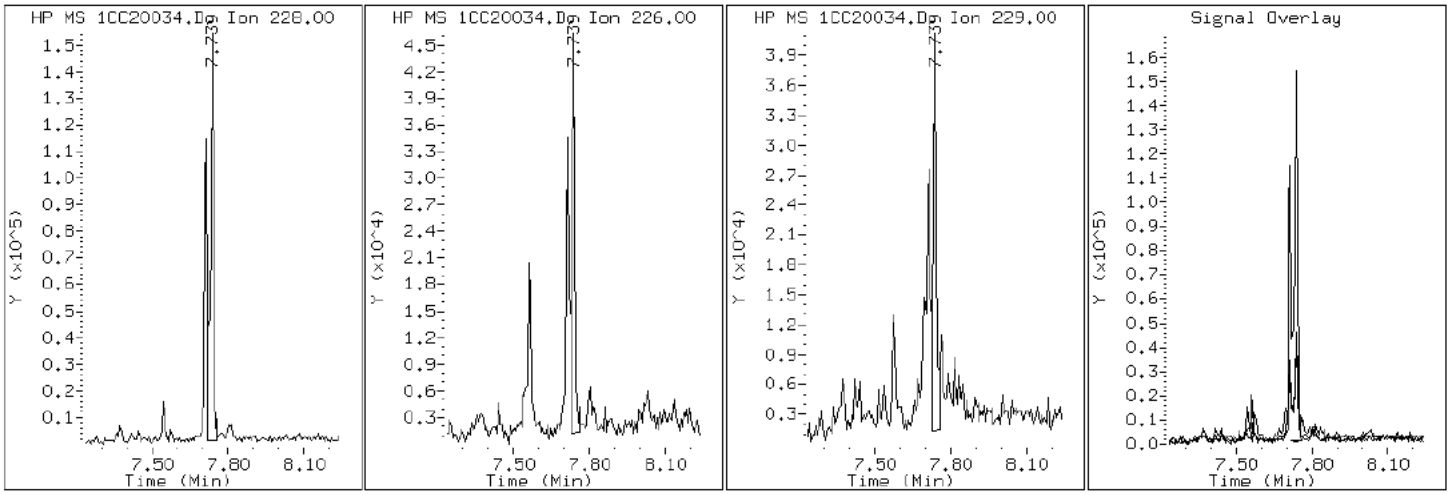
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

19 Chrysene



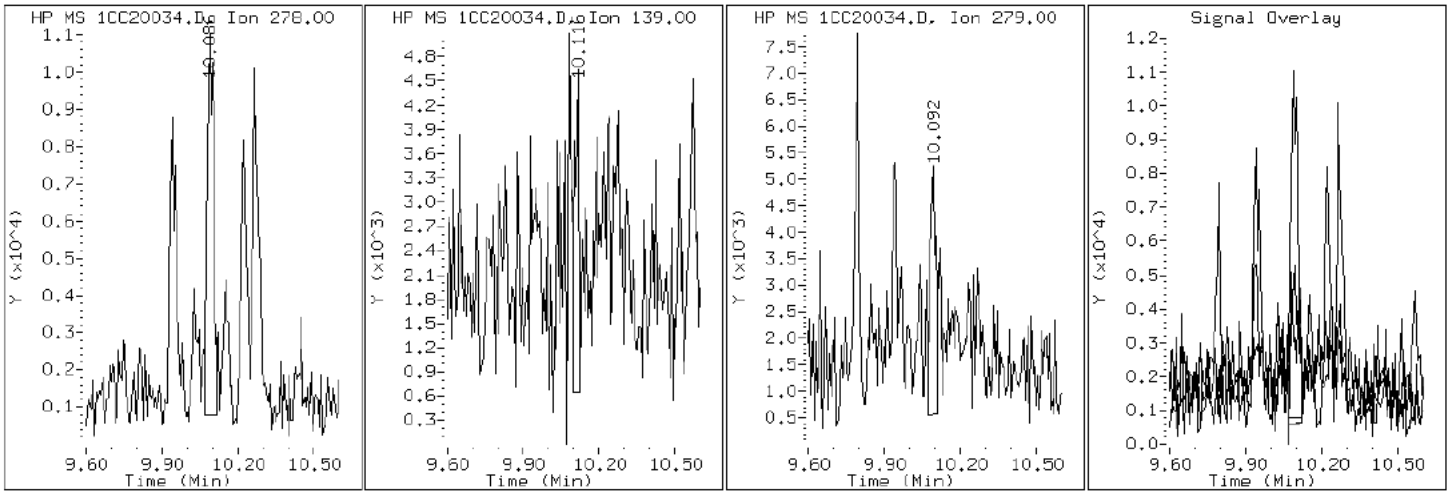
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



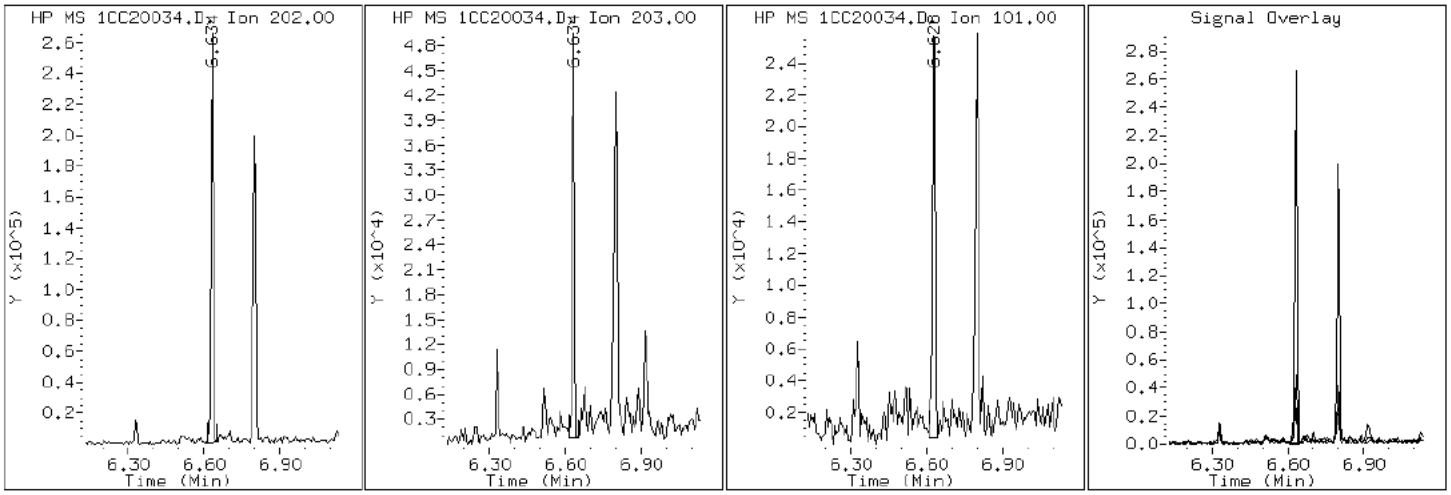
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

15 Fluoranthene



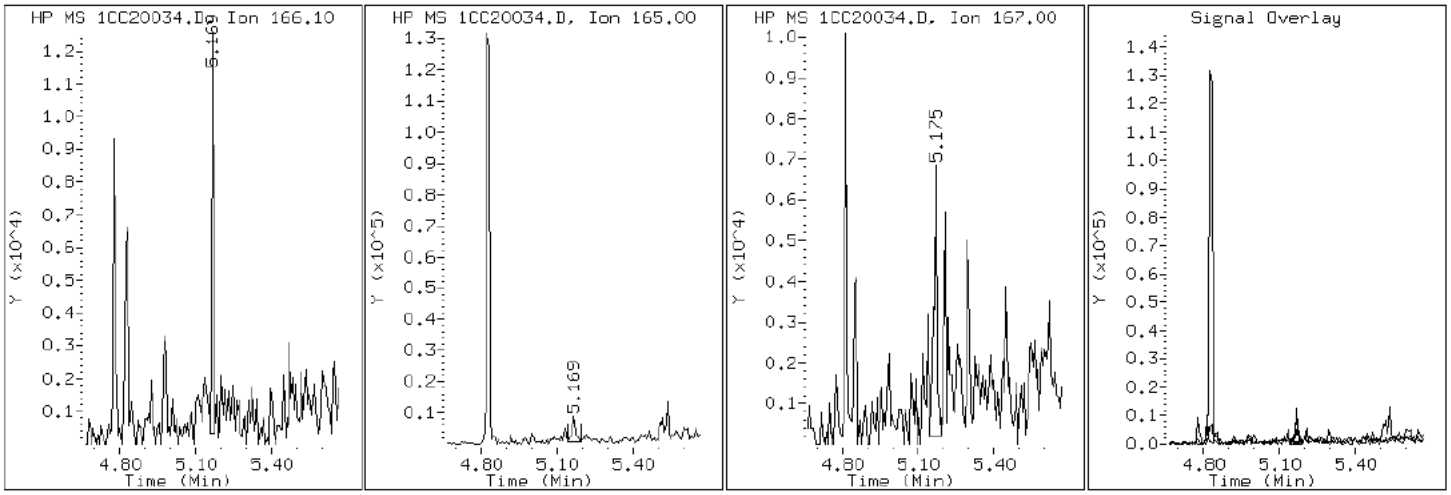
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

9 Fluorene



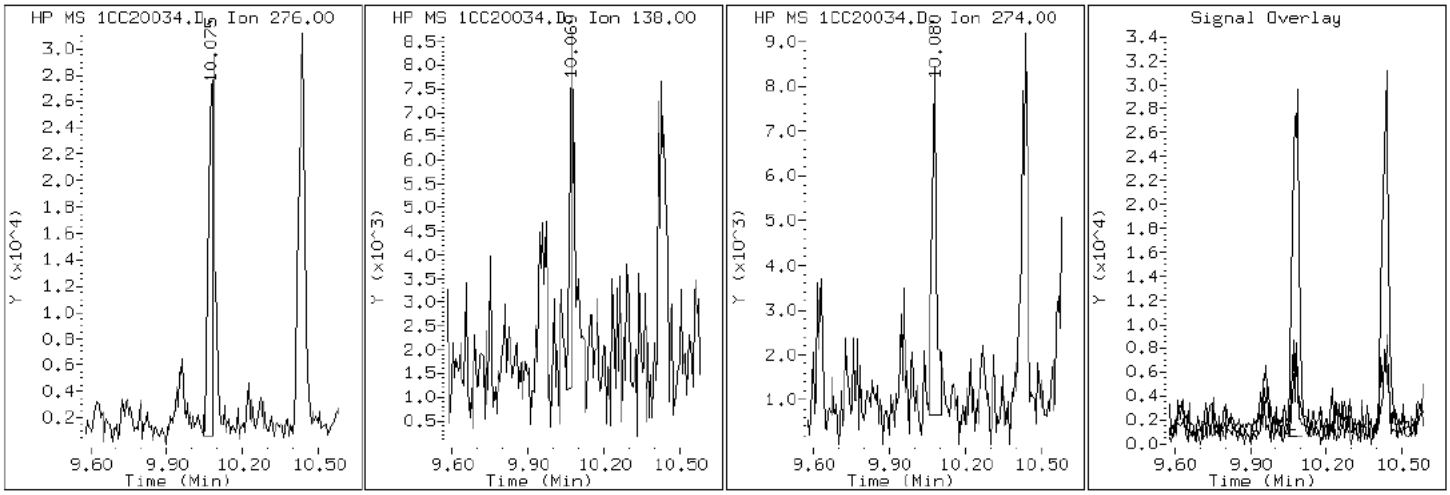
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

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



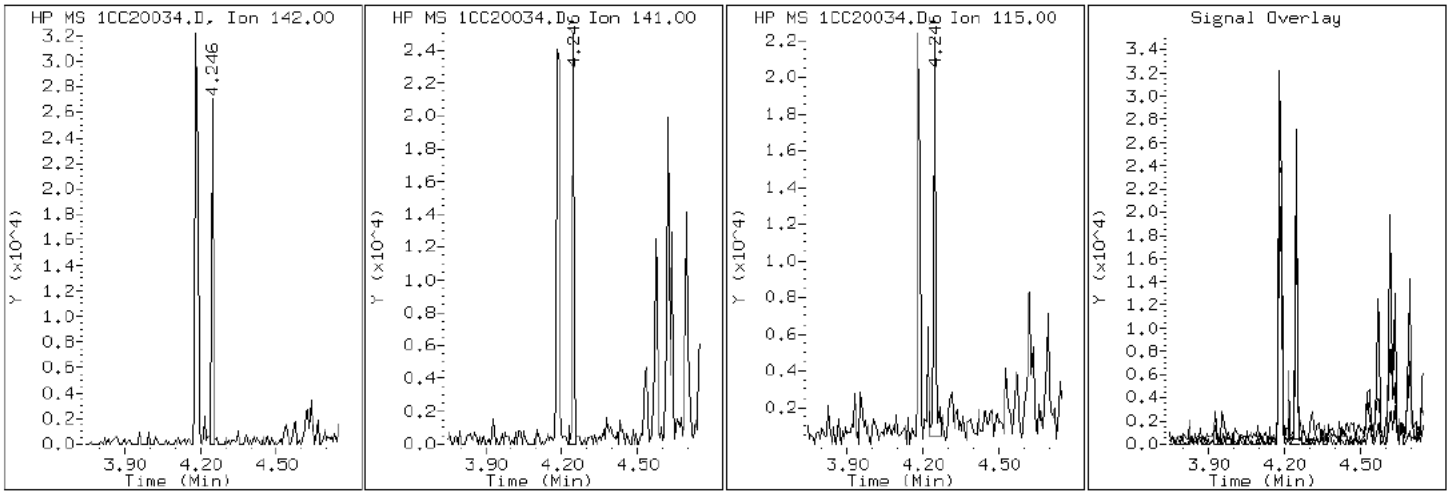
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

4 1-Methylnaphthalene



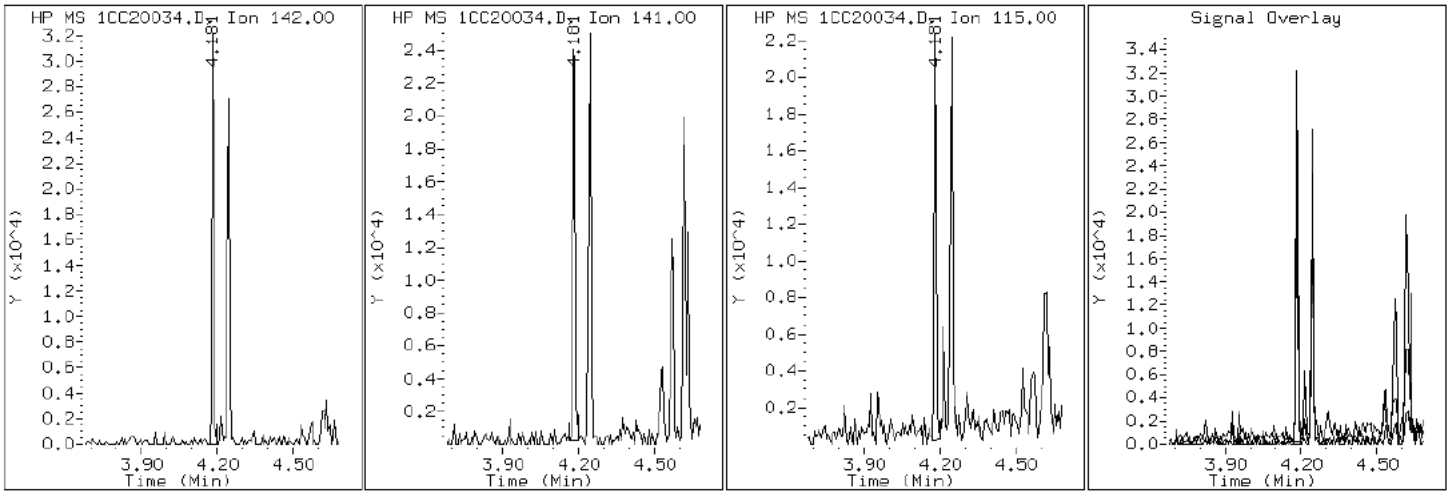
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

3 2-Methylnaphthalene



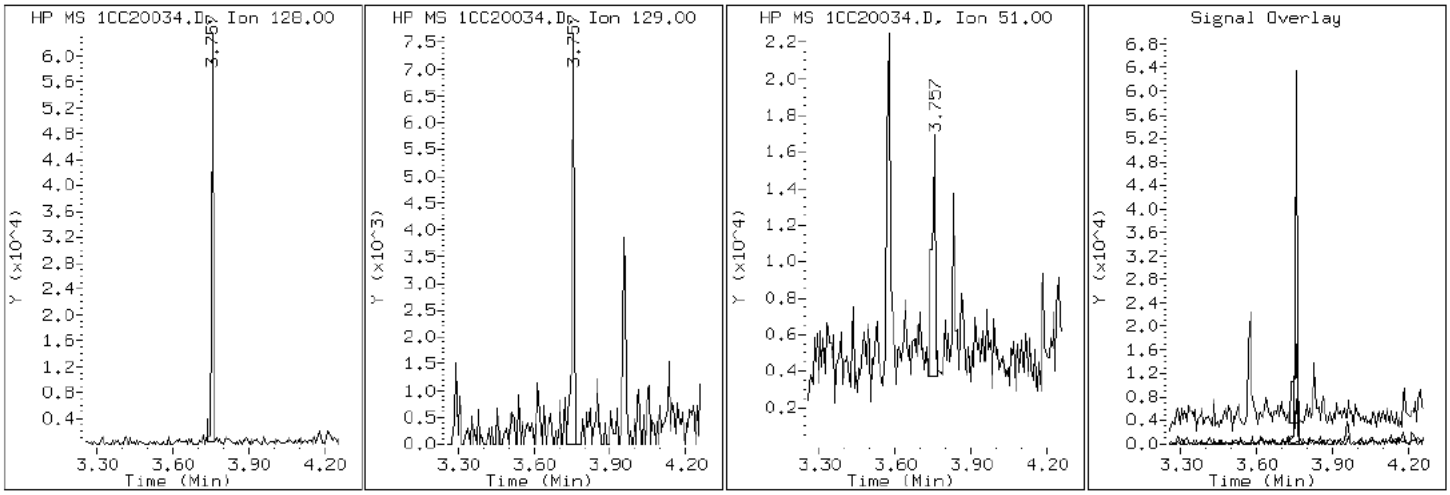
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

2 Naphthalene



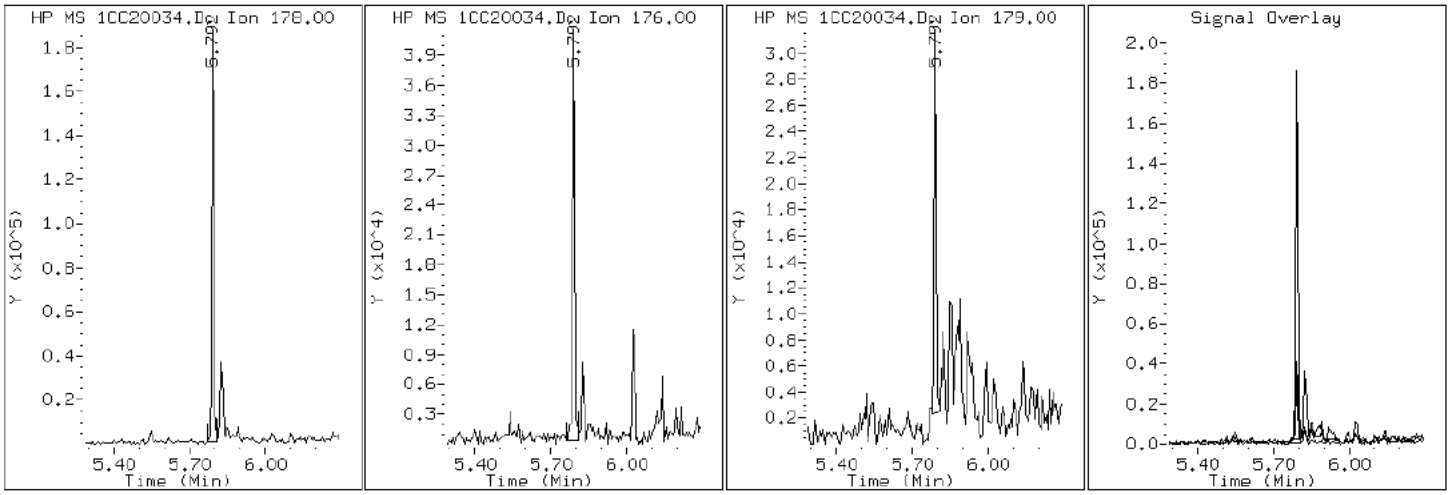
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

11 Phenanthrene



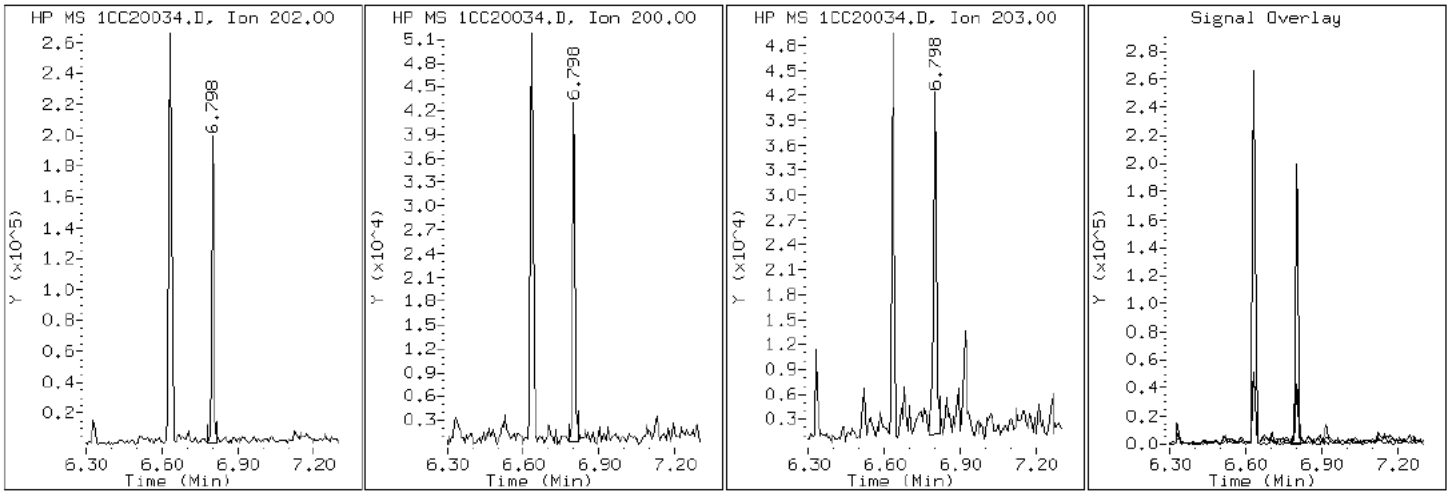
Data File: 1CC20034.D

Date: 20-MAR-2013 20:07

Client ID: CV0150B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20034.D
Inj. Date and Time: 20-MAR-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0150B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

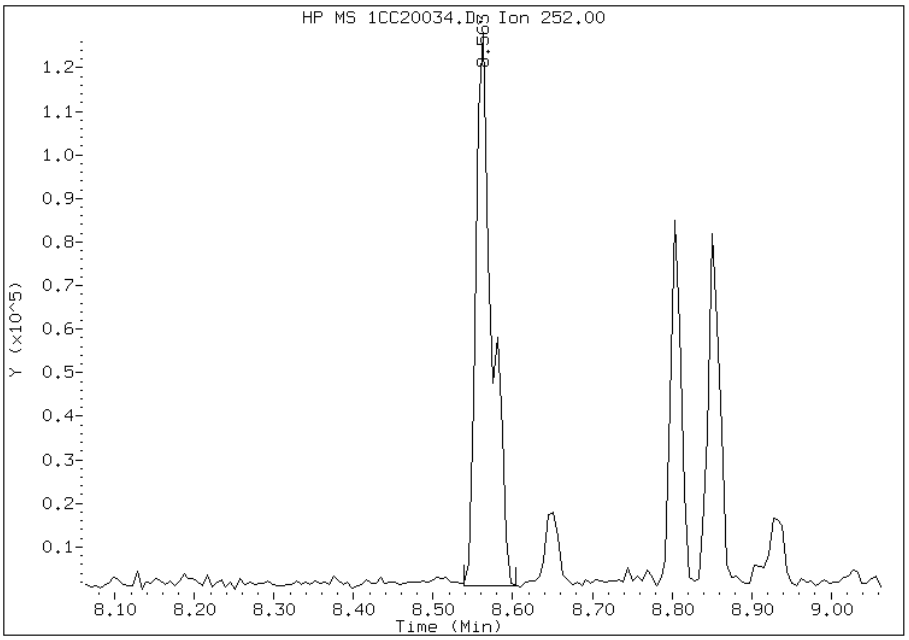
Processing Integration Results

RT: 8.56

Response: 179447

Amount: 5

Conc: 438



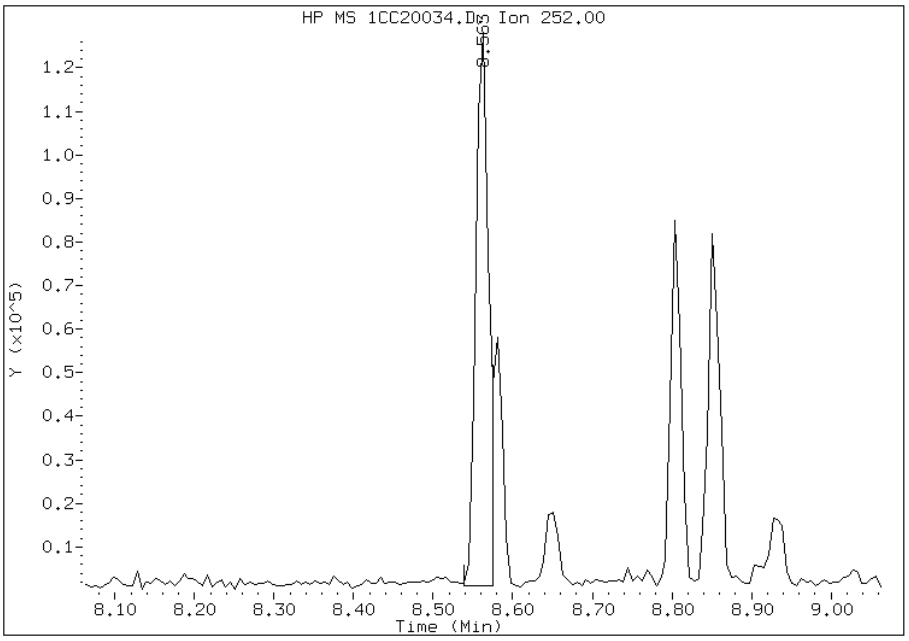
Manual Integration Results

RT: 8.56

Response: 142879

Amount: 4

Conc: 349



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20034.D
Inj. Date and Time: 20-MAR-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0150B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

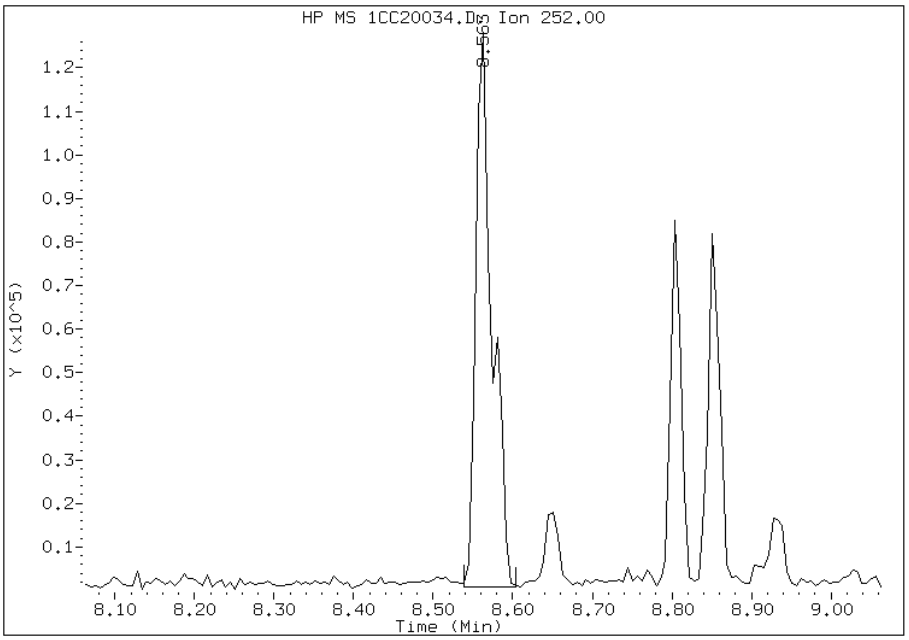
Processing Integration Results

RT: 8.56

Response: 180927

Amount: 5

Conc: 431



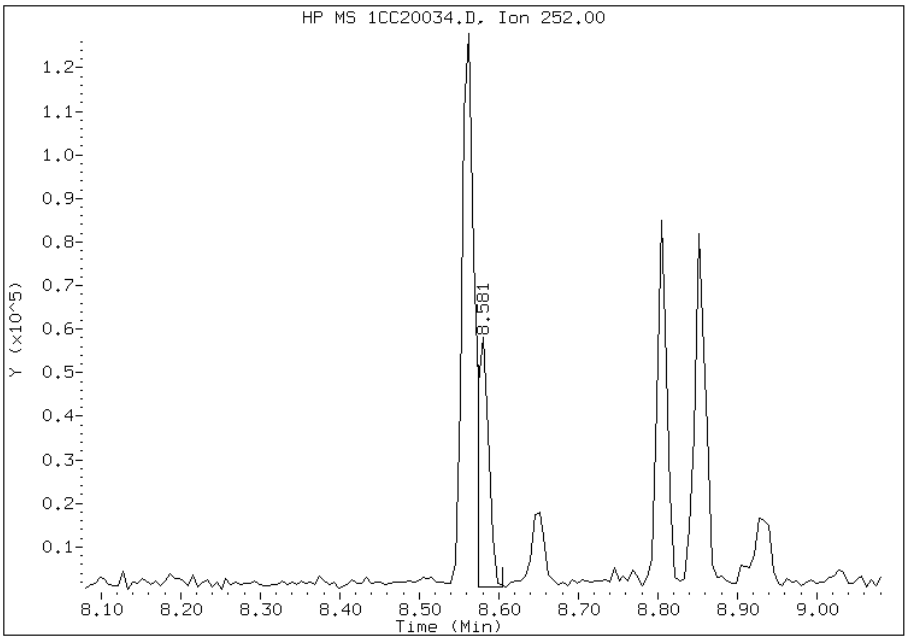
Manual Integration Results

RT: 8.58

Response: 53925

Amount: 1

Conc: 128



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20034.D
Inj. Date and Time: 20-MAR-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0150B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/21/2013

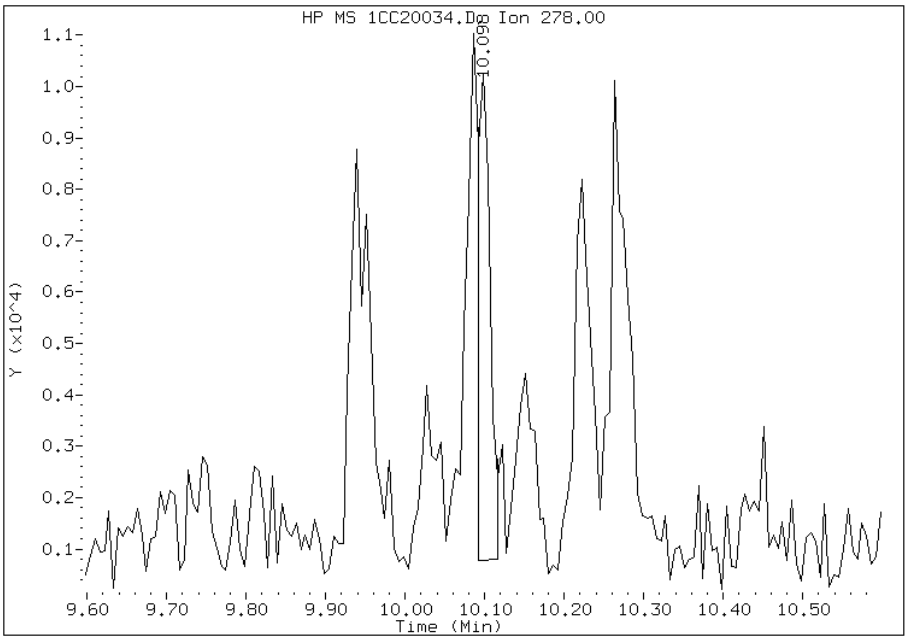
Processing Integration Results

RT: 10.10

Response: 10387

Amount: 0

Conc: 28



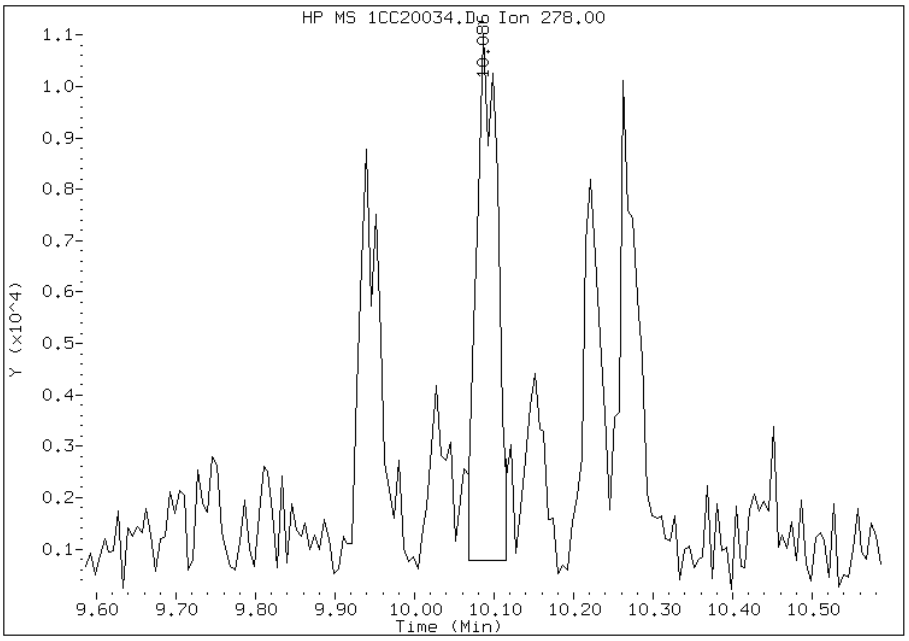
Manual Integration Results

RT: 10.09

Response: 18690

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20034.D
Inj. Date and Time: 20-MAR-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0150B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

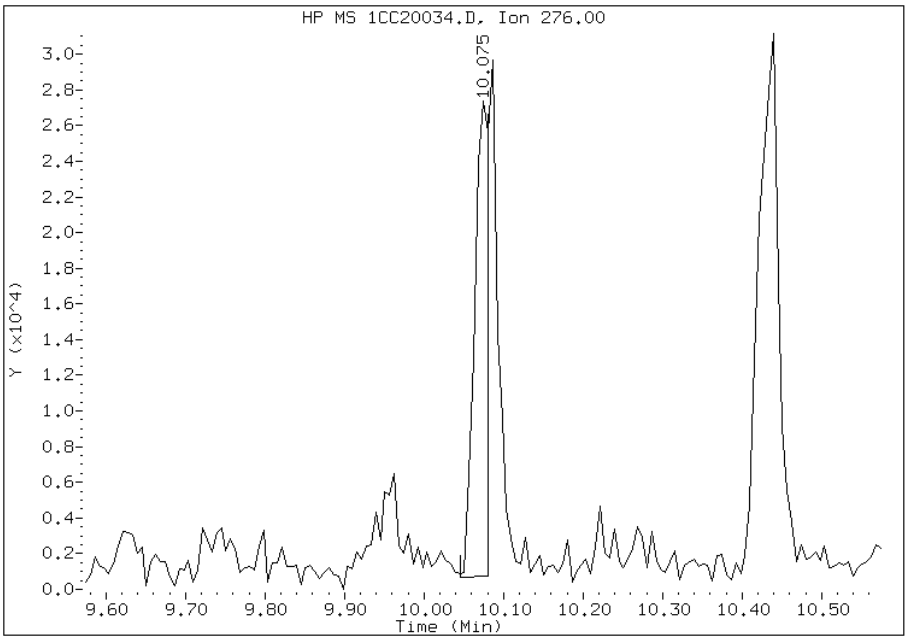
Processing Integration Results

RT: 10.07

Response: 32879

Amount: 1

Conc: 88



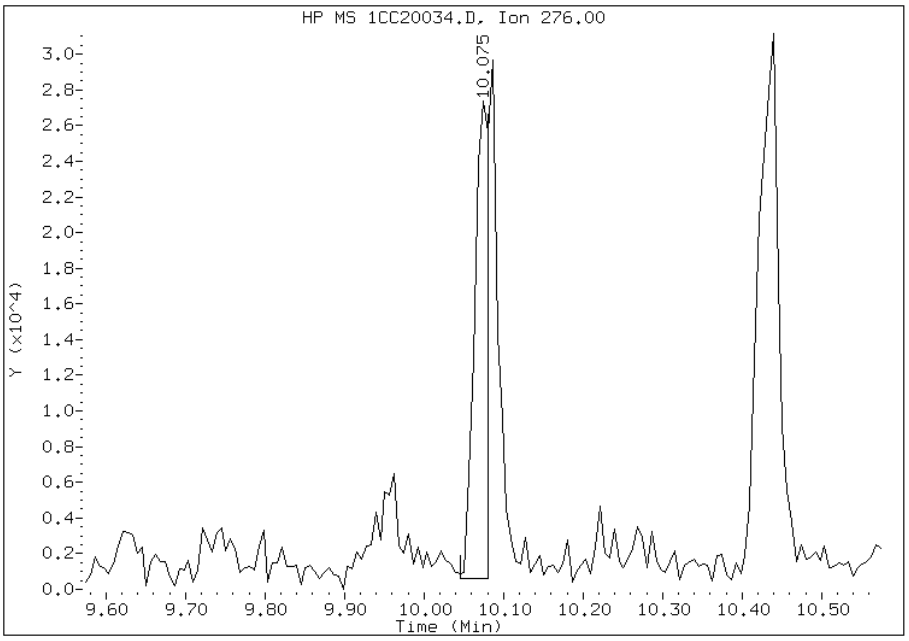
Manual Integration Results

RT: 10.07

Response: 33009

Amount: 1

Conc: 88



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:50
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0169A-CS-SP | Lab Sample ID: 680-88298-3

Matrix: Solid | Lab File ID: 1CC20035.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:10

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.27(g) | Date Analyzed: 03/20/2013 20:25

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

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

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

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	16	J	49	6.1
120-12-7	Anthracene	36		10	5.2
56-55-3	Benzo[a]anthracene	150		9.8	4.8
50-32-8	Benzo[a]pyrene	110		13	6.4
205-99-2	Benzo[b]fluoranthene	180		15	7.5
191-24-2	Benzo[g,h,i]perylene	79		25	5.4
207-08-9	Benzo[k]fluoranthene	83		9.8	4.4
218-01-9	Chrysene	170		11	5.5
53-70-3	Dibenz(a,h)anthracene	25		25	5.0
206-44-0	Fluoranthene	220		25	4.9
86-73-7	Fluorene	10	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	77		25	8.7
90-12-0	1-Methylnaphthalene	120		49	5.4
91-57-6	2-Methylnaphthalene	120		49	8.7
91-20-3	Naphthalene	94		49	5.4
85-01-8	Phenanthrene	210		9.8	4.8
129-00-0	Pyrene	230		25	4.6

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\1C032013.b\1CC20035.D
Lab Smp Id: 680-88298-A-3-A Client Smp ID: CV0169A-CS-SP
Inj Date : 20-MAR-2013 20:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-3-a
Misc Info : 680-88298-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	20.134	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	960242	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	753852	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1341634	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	152838	7.54518	618.6850
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1431208	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1390783	40.0000	
2 Naphthalene	128	3.757	3.757	(1.003)	28630	1.14526	93.9082
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	24991	1.49869	122.8886
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	22300	1.46835	120.4005
5 Acenaphthylene	152	4.745	4.745	(0.983)	6046	0.19893	16.3115
9 Fluorene	166	5.168	5.169	(1.071)	2923	0.12235	10.0321(Q)
11 Phenanthrene	178	5.792	5.792	(1.002)	97917	2.52402	206.9628
12 Anthracene	178	5.827	5.827	(1.008)	16845	0.44399	36.4056
13 Carbazole	167	5.939	5.933	(1.027)	8432	0.25001	20.5003

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	112186	2.64065	216.5264
16 Pyrene	202	6.798	6.798	(0.880)	107098	2.78454	228.3250
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	73743	1.78522	146.3837
19 Chrysene	228	7.739	7.739	(1.002)	83422	2.01802	165.4728
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	78980	2.17298	178.1791
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	37568	1.00757	82.6182
22 Benzo(a)pyrene	252	8.850	8.857	(0.993)	48806	1.38244	113.3567
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	31096	0.93631	76.7749(M)
25 Dibenzo(a,h)anthracene	278	10.097	10.098	(1.133)	9862	0.30358	24.8930
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	33629	0.96797	79.3711

QC Flag Legend

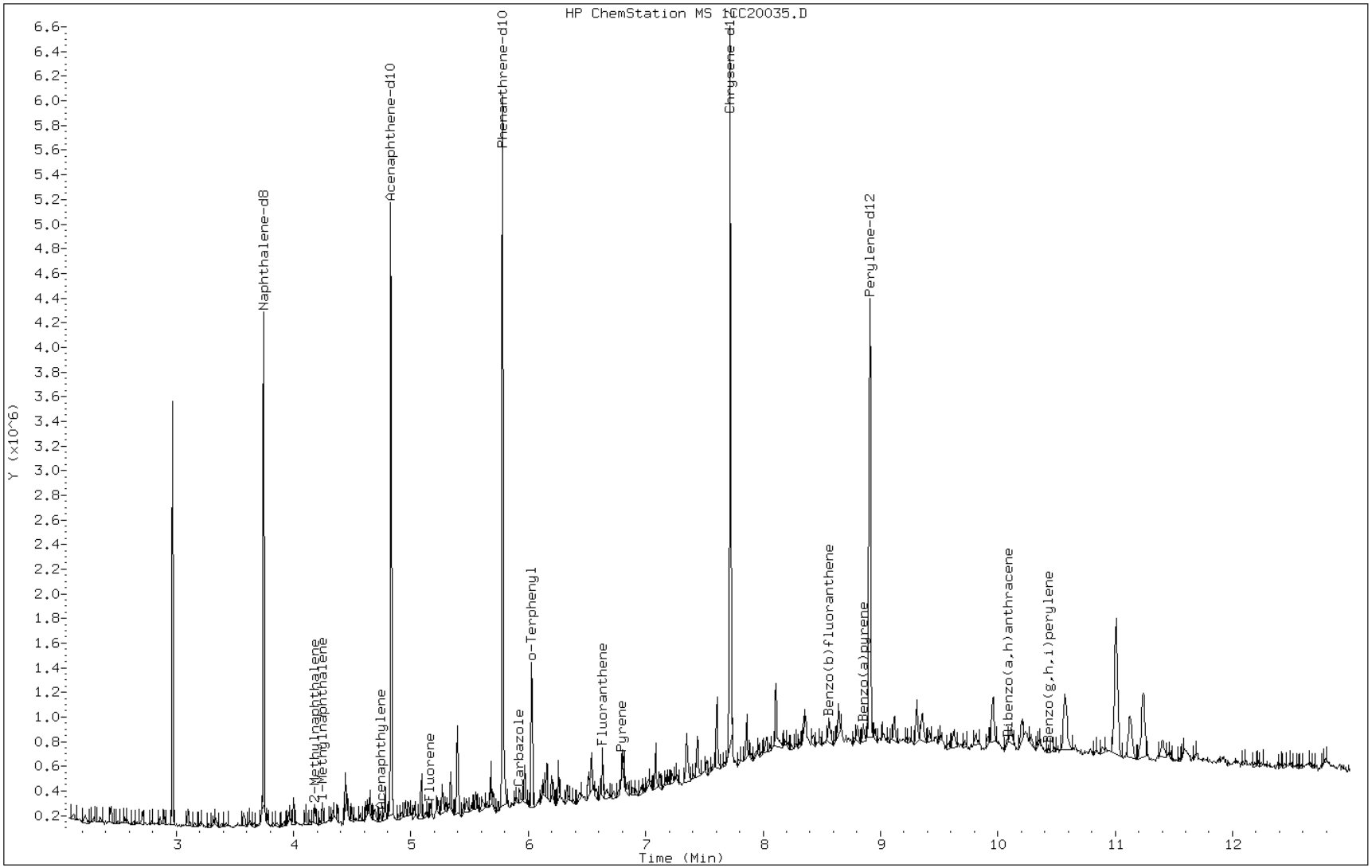
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC



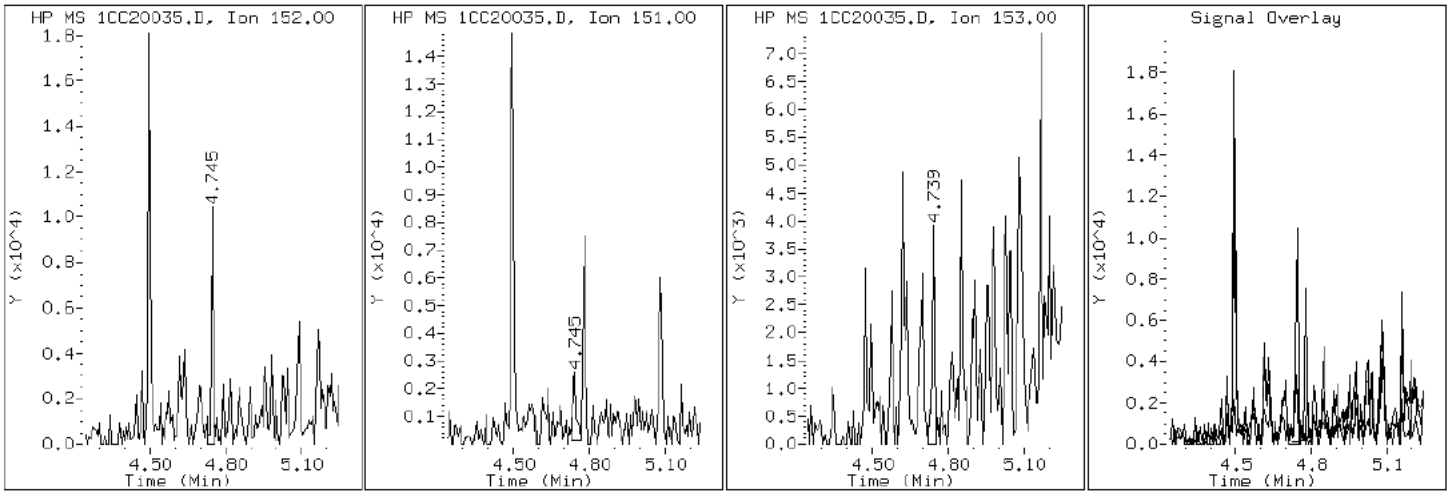
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

5 Acenaphthylene



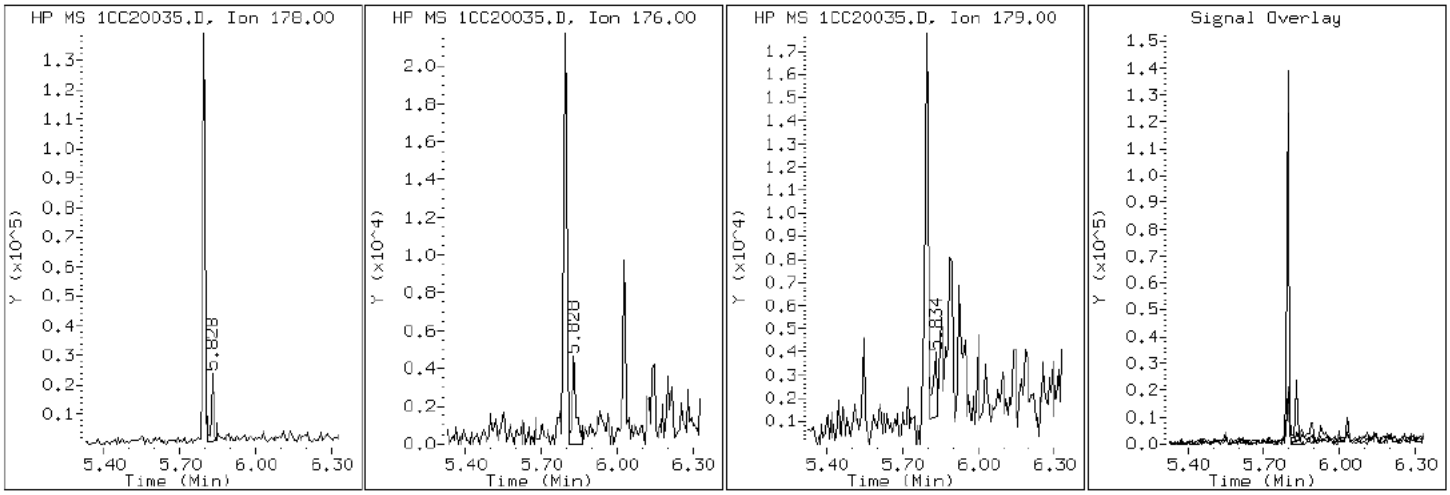
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

12 Anthracene



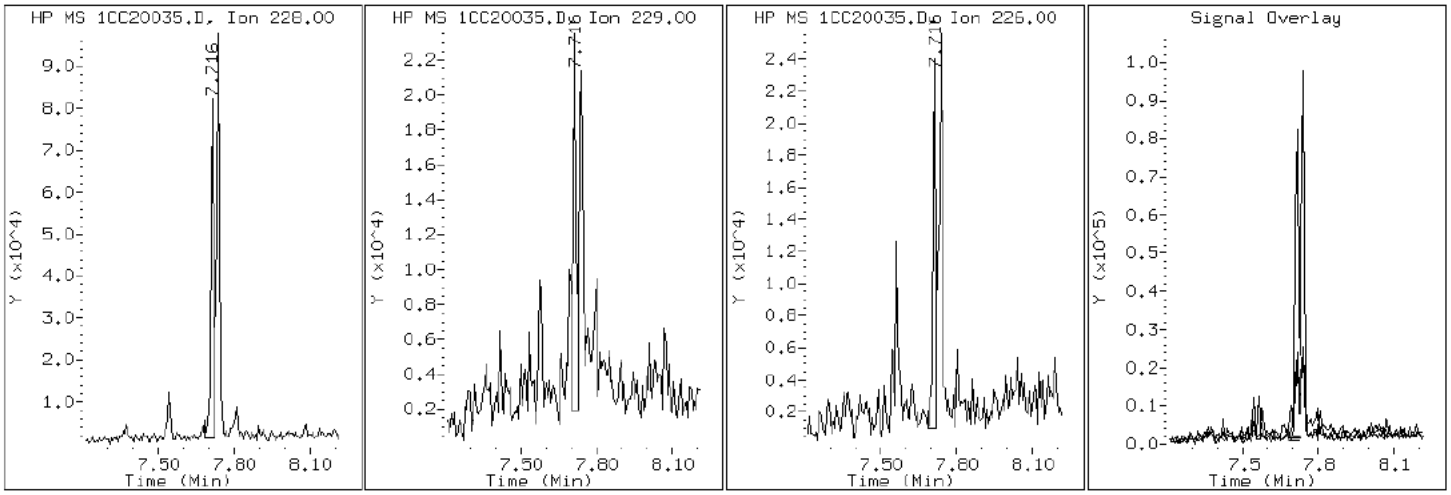
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

17 Benzo(a)anthracene



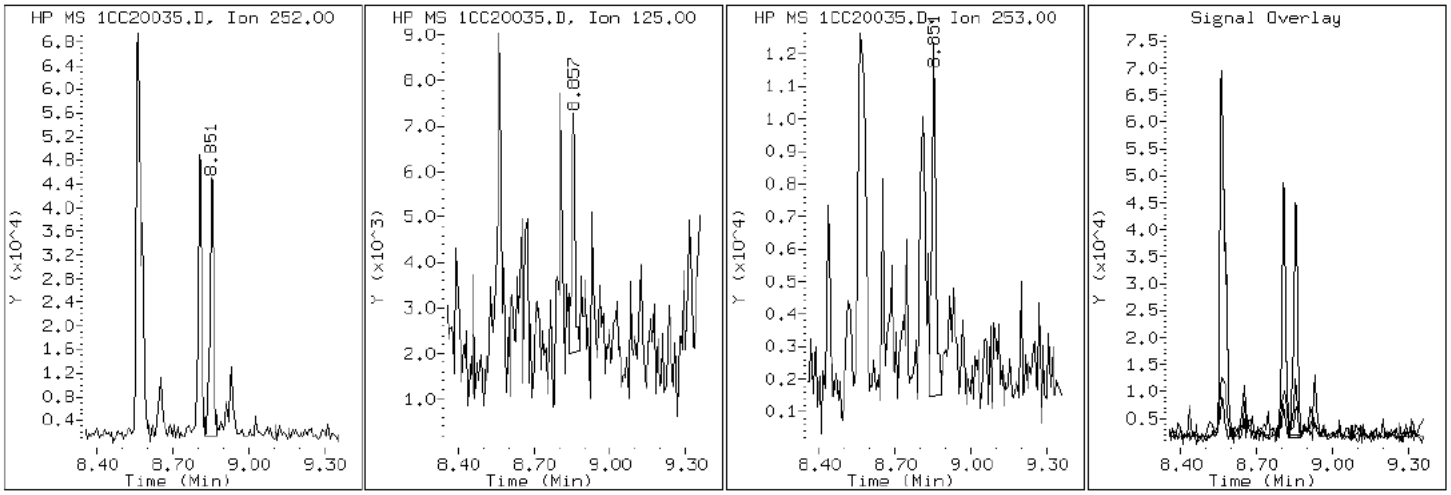
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

22 Benzo(a)pyrene



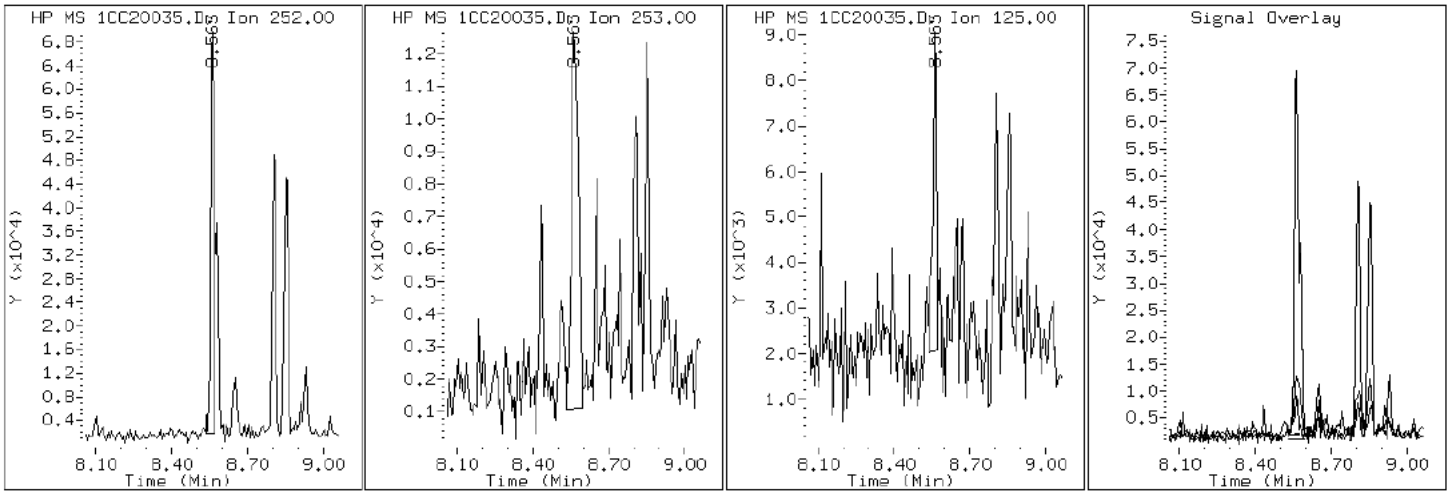
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



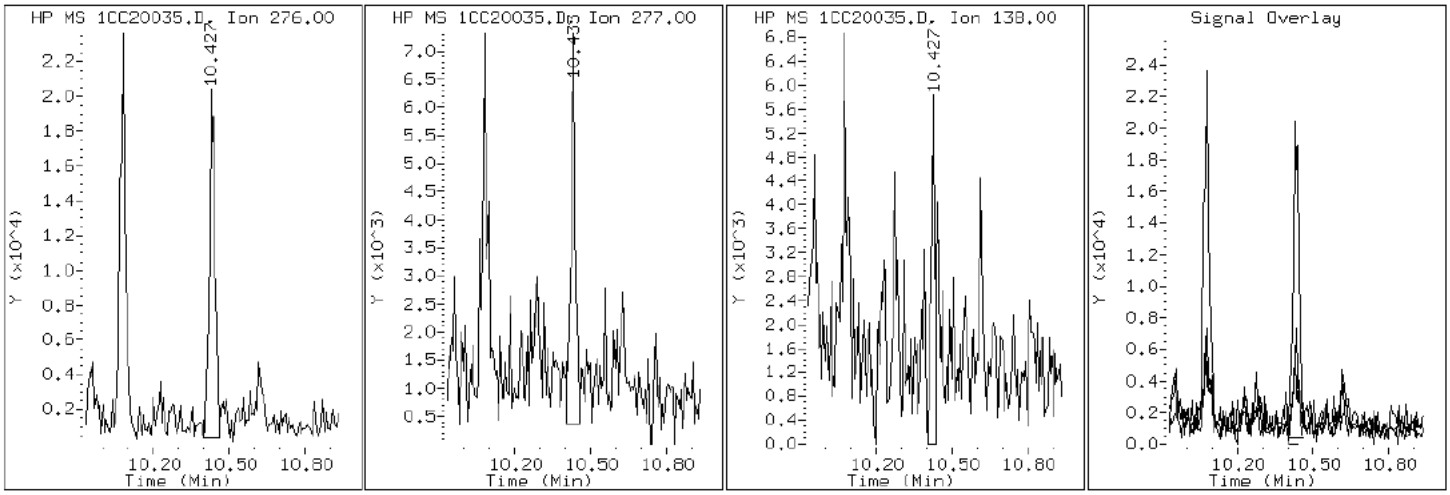
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



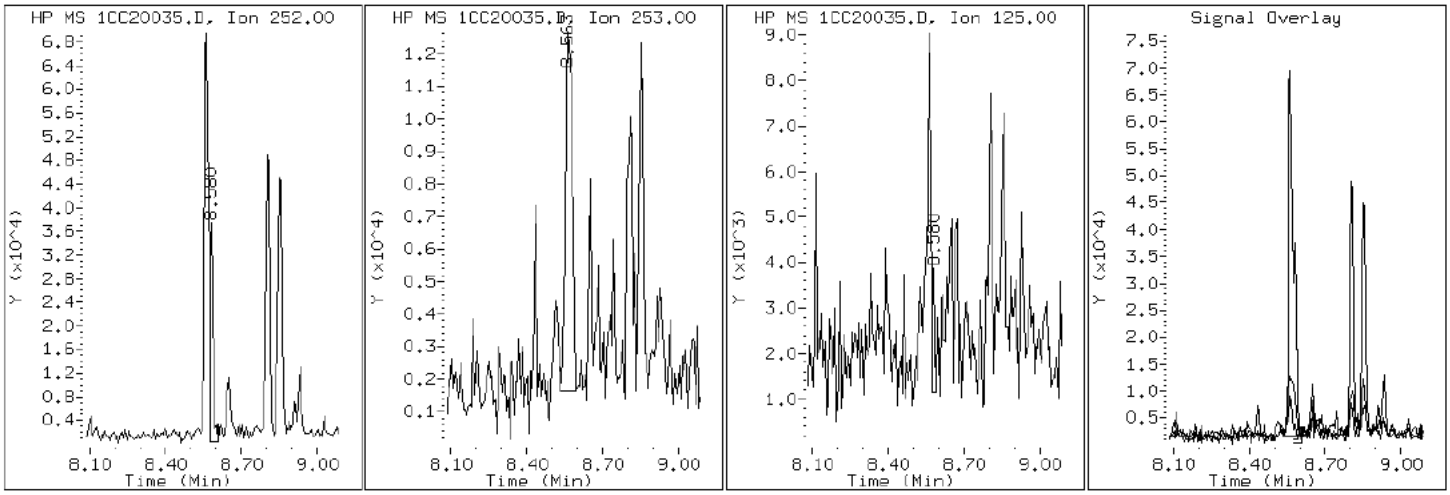
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



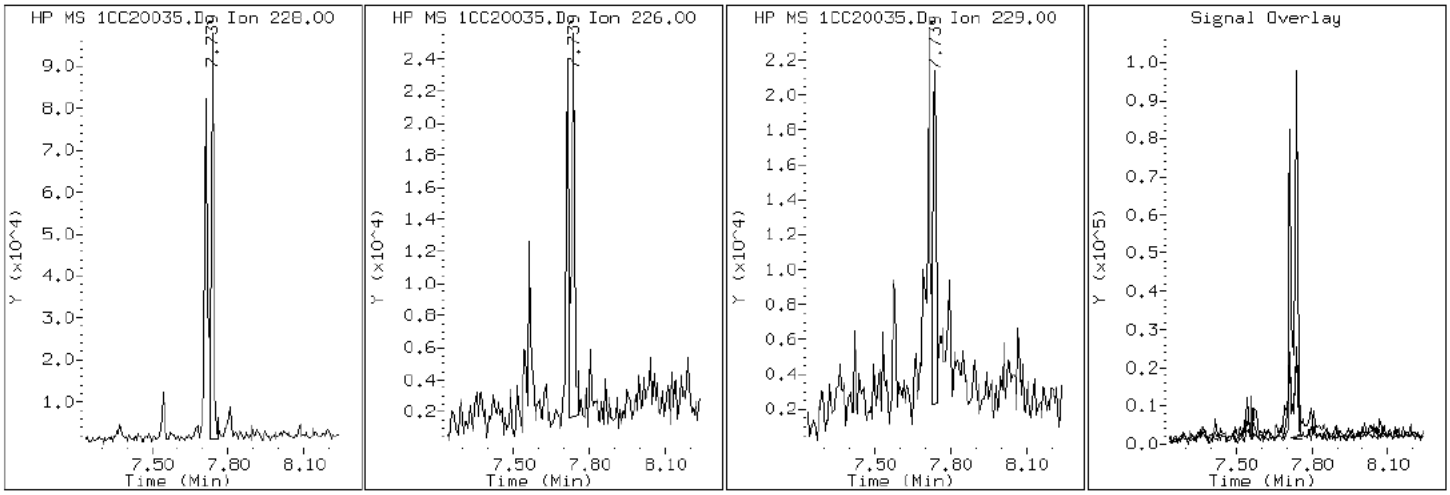
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

19 Chrysene



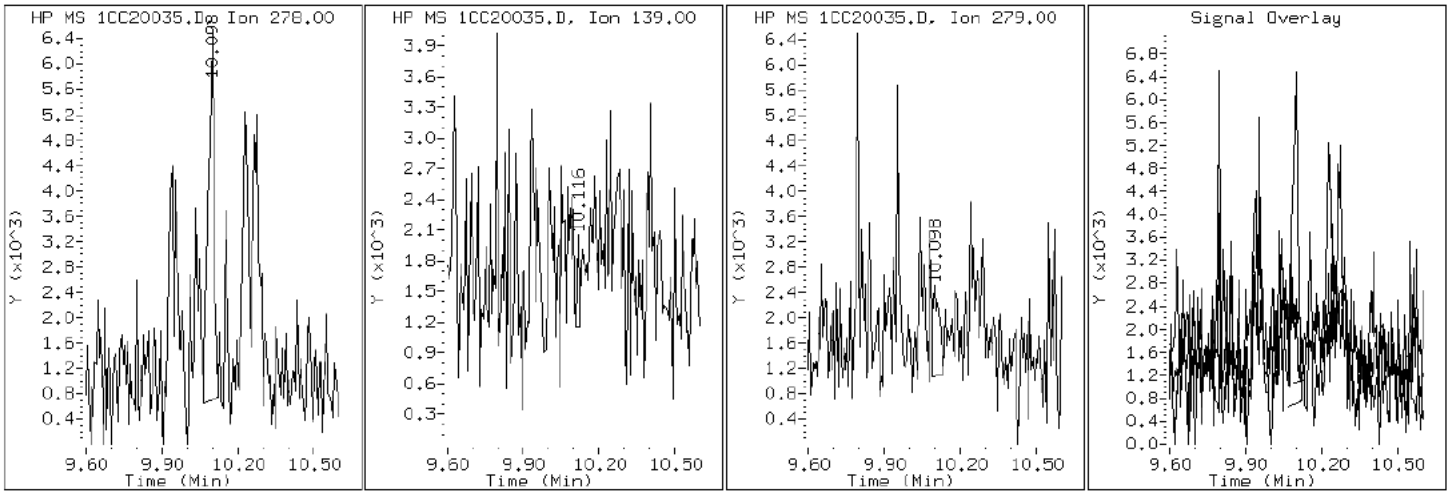
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



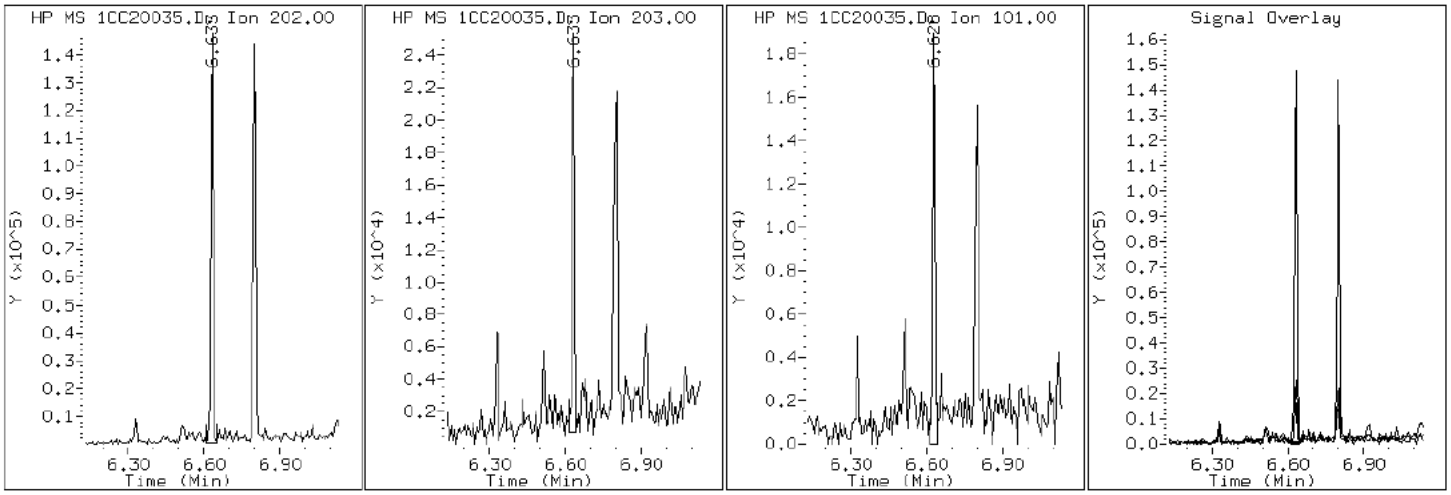
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

15 Fluoranthene



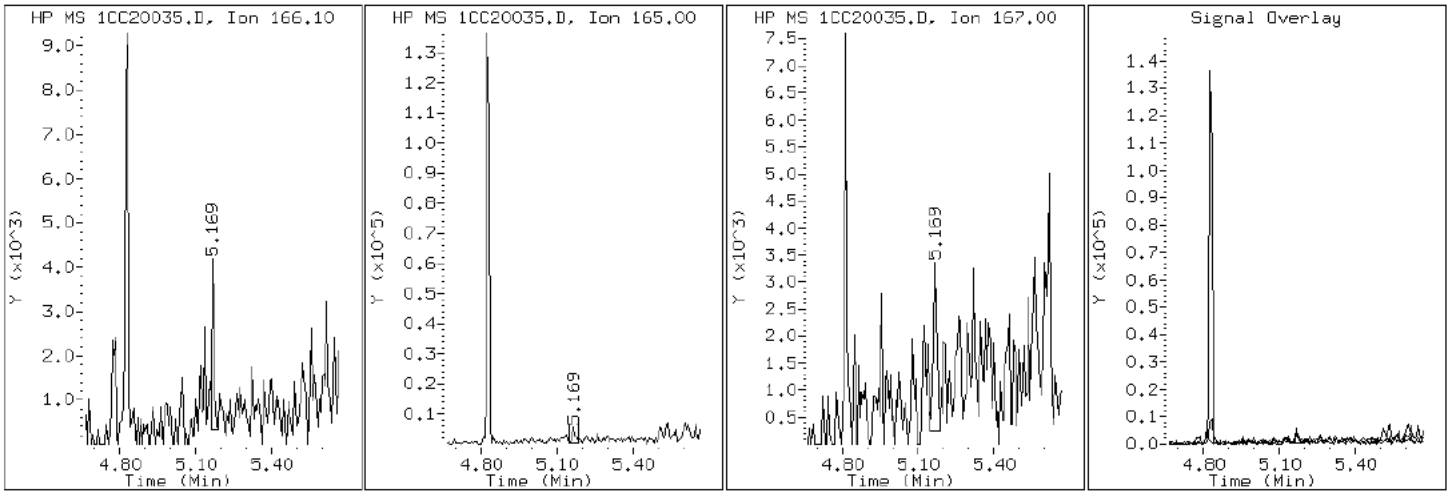
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

9 Fluorene



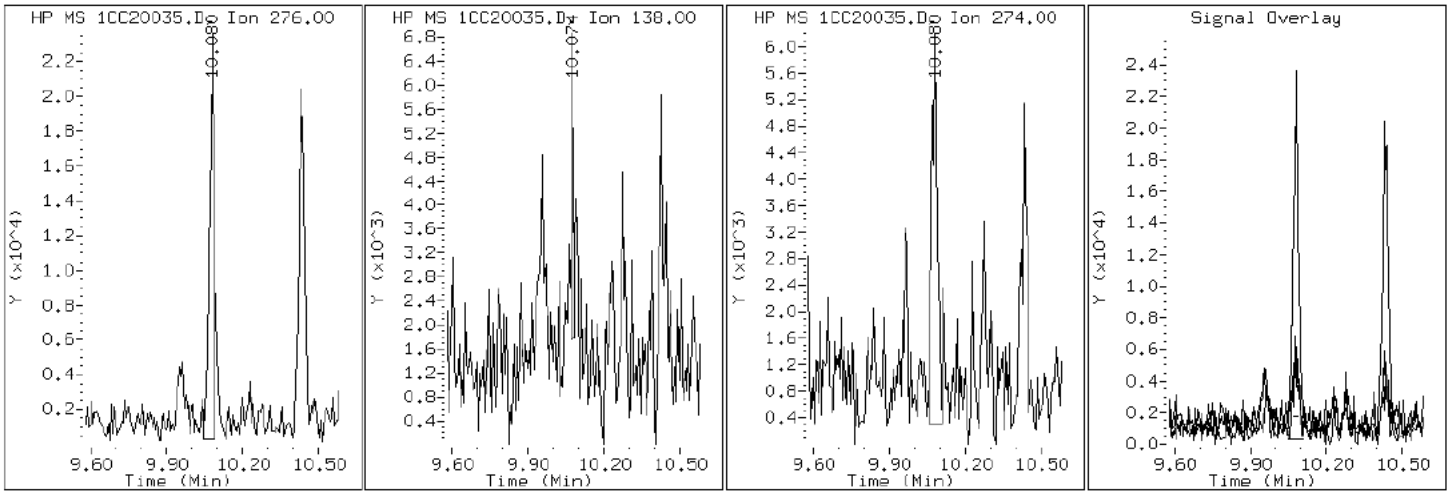
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

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



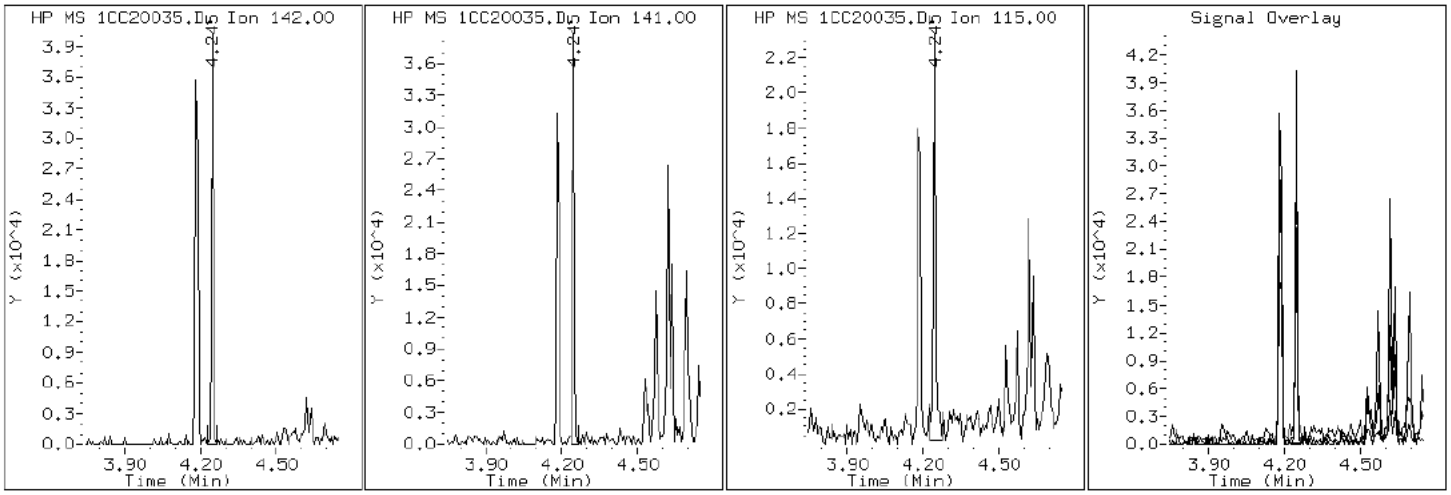
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

4 1-Methylnaphthalene



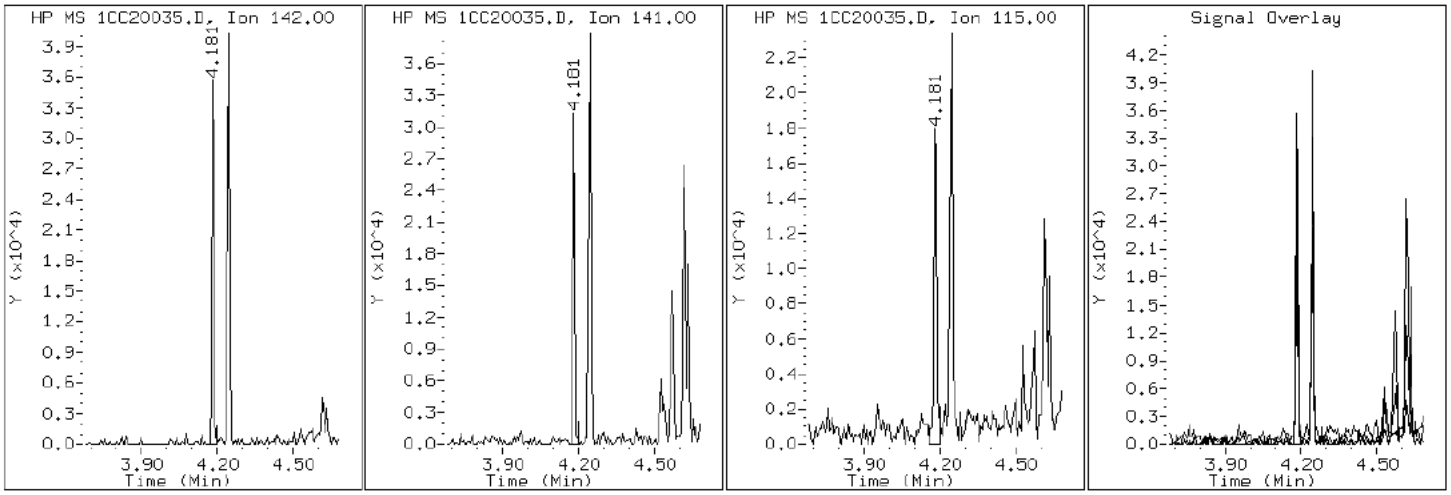
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

3 2-Methylnaphthalene



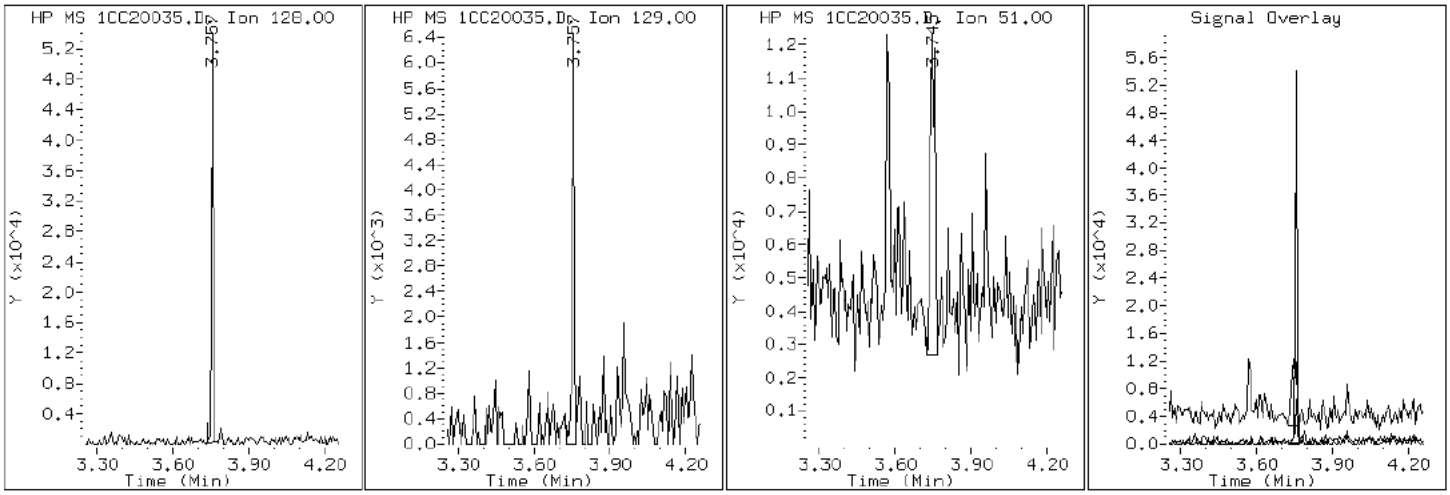
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

2 Naphthalene



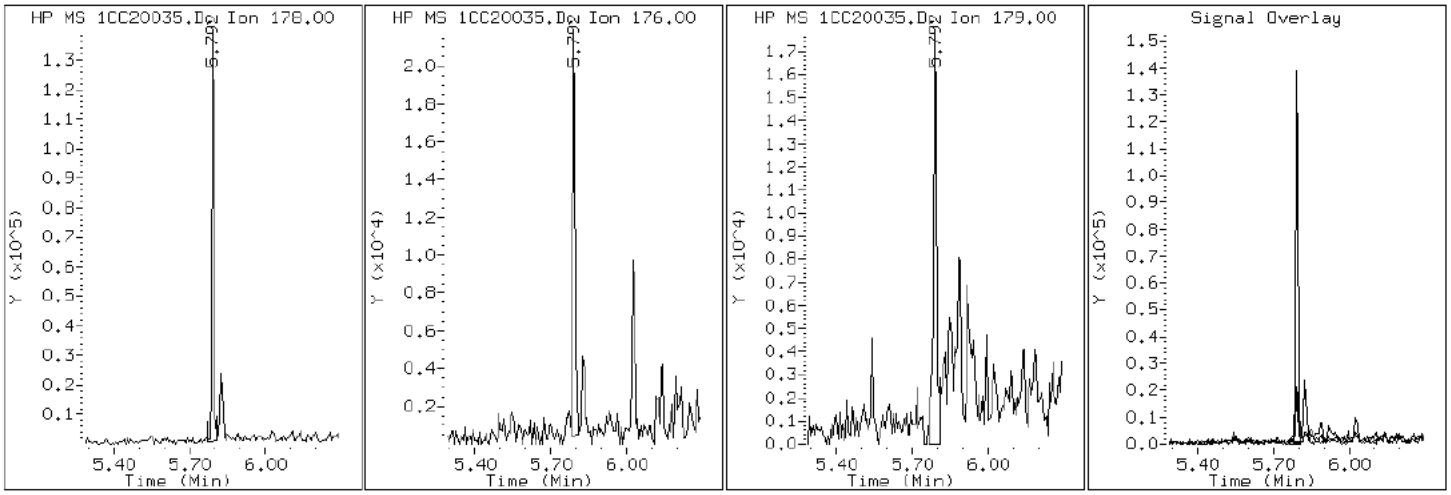
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

11 Phenanthrene



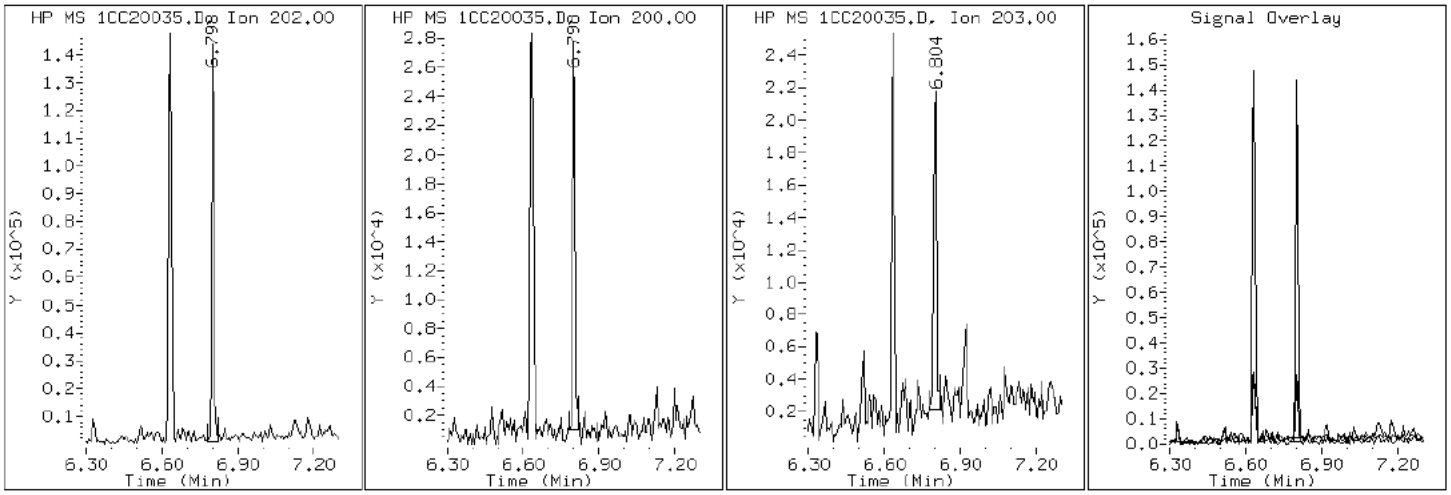
Data File: 1CC20035.D

Date: 20-MAR-2013 20:25

Client ID: CV0169A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20035.D
Inj. Date and Time: 20-MAR-2013 20:25
Instrument ID: BSMC5973.i
Client ID: CV0169A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

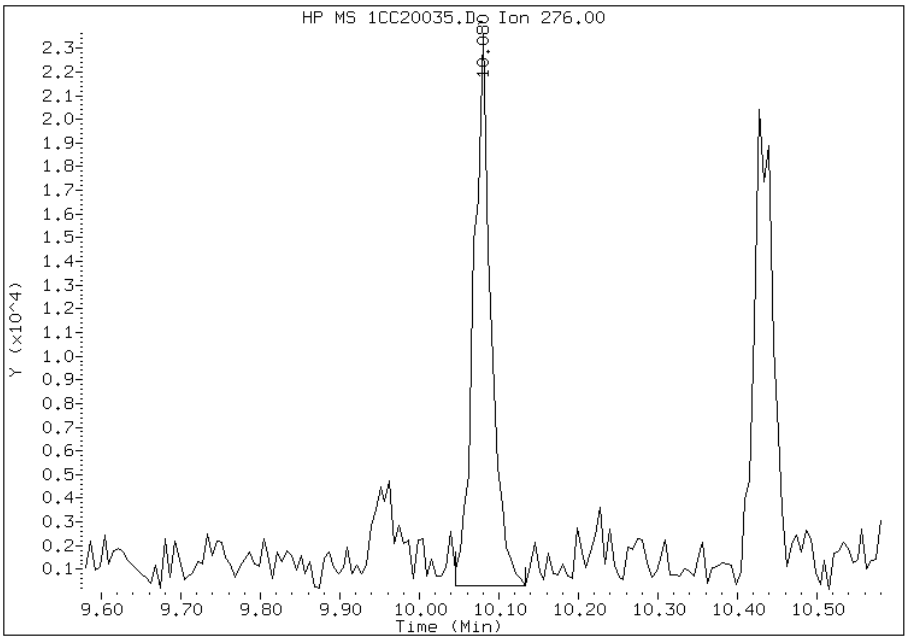
Processing Integration Results

RT: 10.08

Response: 35392

Amount: 1

Conc: 87



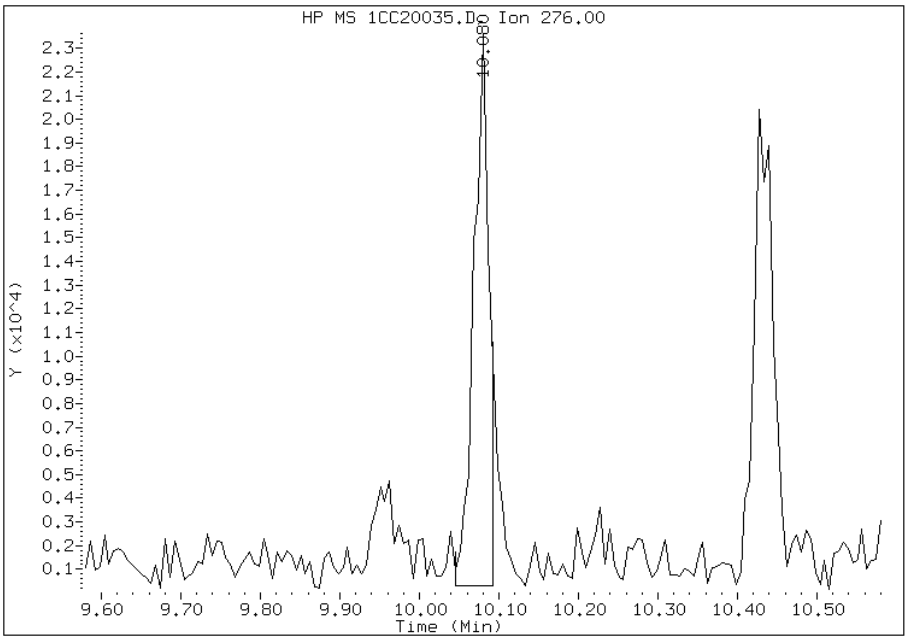
Manual Integration Results

RT: 10.08

Response: 31096

Amount: 1

Conc: 77



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0169B-CS-SP | Lab Sample ID: 680-88298-4

Matrix: Solid | Lab File ID: 1CC20036.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:22

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.28(g) | Date Analyzed: 03/20/2013 20:44

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

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

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	55	J	210	26
120-12-7	Anthracene	76		43	22
56-55-3	Benzo[a]anthracene	500	F	41	20
50-32-8	Benzo[a]pyrene	370	F	54	27
205-99-2	Benzo[b]fluoranthene	550	F	63	32
191-24-2	Benzo[g,h,i]perylene	290		100	23
207-08-9	Benzo[k]fluoranthene	200		41	19
218-01-9	Chrysene	570	F	47	23
53-70-3	Dibenz(a,h)anthracene	110		100	21
206-44-0	Fluoranthene	760	F	100	21
86-73-7	Fluorene	55	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	180		100	37
90-12-0	1-Methylnaphthalene	440		210	23
91-57-6	2-Methylnaphthalene	320		210	37
91-20-3	Naphthalene	290		210	23
85-01-8	Phenanthrene	770	F	41	20
129-00-0	Pyrene	710	F	100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20036.D
Lab Smp Id: 680-88298-A-4-A Client Smp ID: CV0169B-CS-SP
Inj Date : 20-MAR-2013 20:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-4-a
Misc Info : 680-88298-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 36
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	24.091	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.745	3.745	(1.000)	934634	40.0000	
*	6 Acenaphthene-d10	164	4.833	4.827	(1.000)	725937	40.0000	
*	10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1339099	40.0000	
$	14 o-Terphenyl	230	6.033	6.027	(1.044)	32607	1.61276	556.1770
*	18 Chrysene-d12	240	7.721	7.721	(1.000)	1455019	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	1351969	40.0000	
	2 Naphthalene	128	3.757	3.757	(1.003)	20802	0.85492	294.8282
	3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	15054	0.92751	319.8612
	4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	19009	1.28594	443.4704
	5 Acenaphthylene	152	4.745	4.745	(0.982)	4667	0.15946	54.9914
	9 Fluorene	166	5.168	5.169	(1.069)	3670	0.15952	55.0125
	11 Phenanthrene	178	5.792	5.792	(1.002)	86497	2.23386	770.3698
	12 Anthracene	178	5.827	5.827	(1.008)	8338	0.22018	75.9318
	13 Carbazole	167	5.939	5.933	(1.027)	5868	0.17432	60.1152

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	94049	2.21793	764.8748
16 Pyrene	202	6.798	6.798	(0.880)	80393	2.05601	709.0341
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	60604	1.44314	497.6798
19 Chrysene	228	7.739	7.739	(1.002)	69070	1.64350	566.7768
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	56663	1.60373	553.0628(M)
21 Benzo(k)fluoranthene	252	8.574	8.586	(0.962)	21002	0.57944	199.8268(QM)
22 Benzo(a)pyrene	252	8.856	8.857	(0.994)	37043	1.07938	372.2334
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	16961	0.52536	181.1764(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	10118	0.32041	110.4952
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	28501	0.84392	291.0340

QC Flag Legend

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

Data File: 1CC20036.D

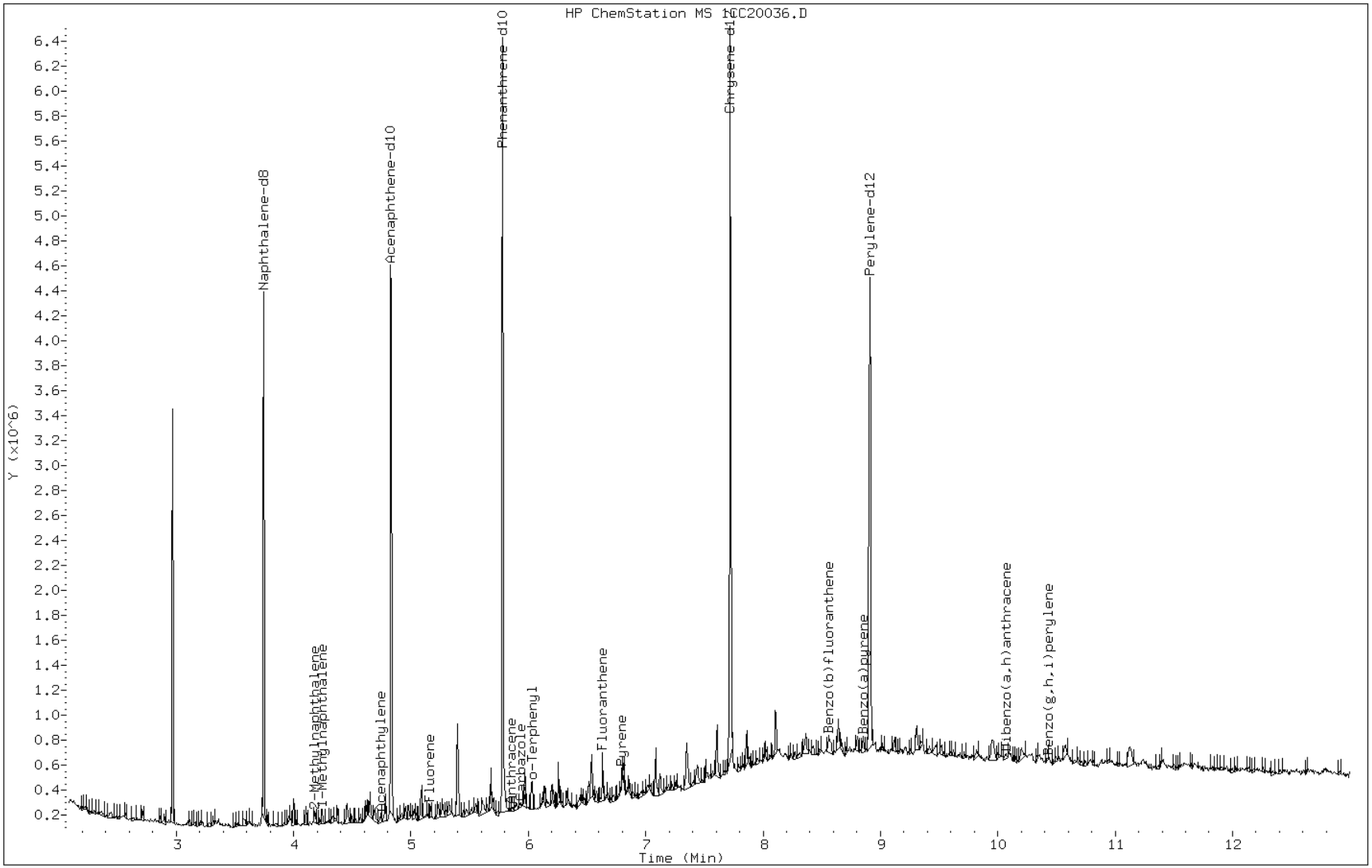
Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a

Operator: SCC



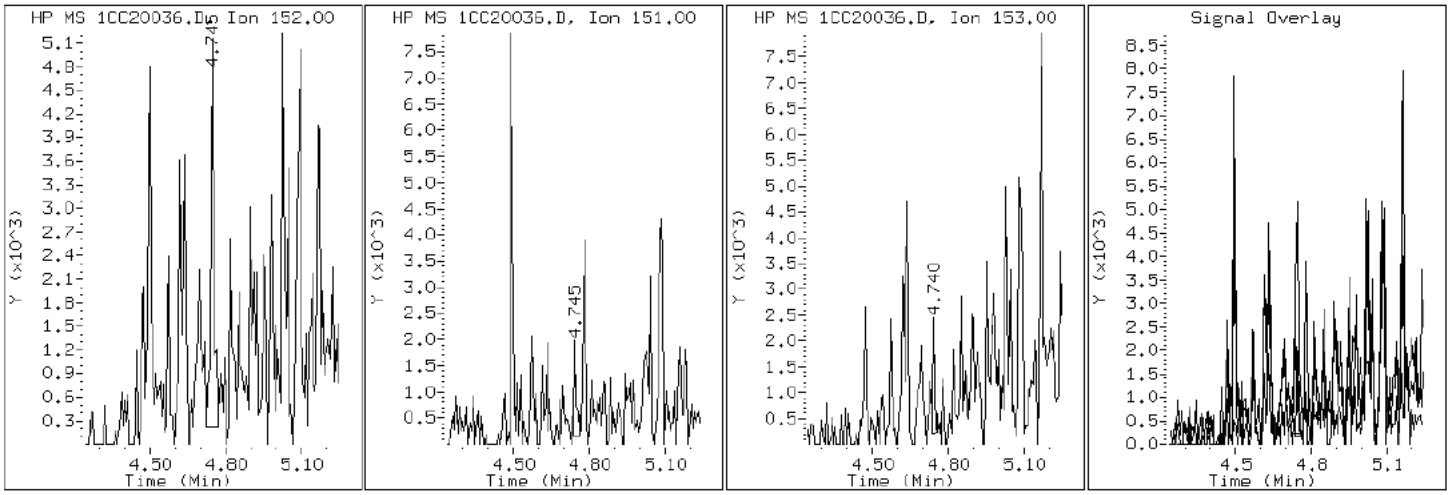
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

5 Acenaphthylene



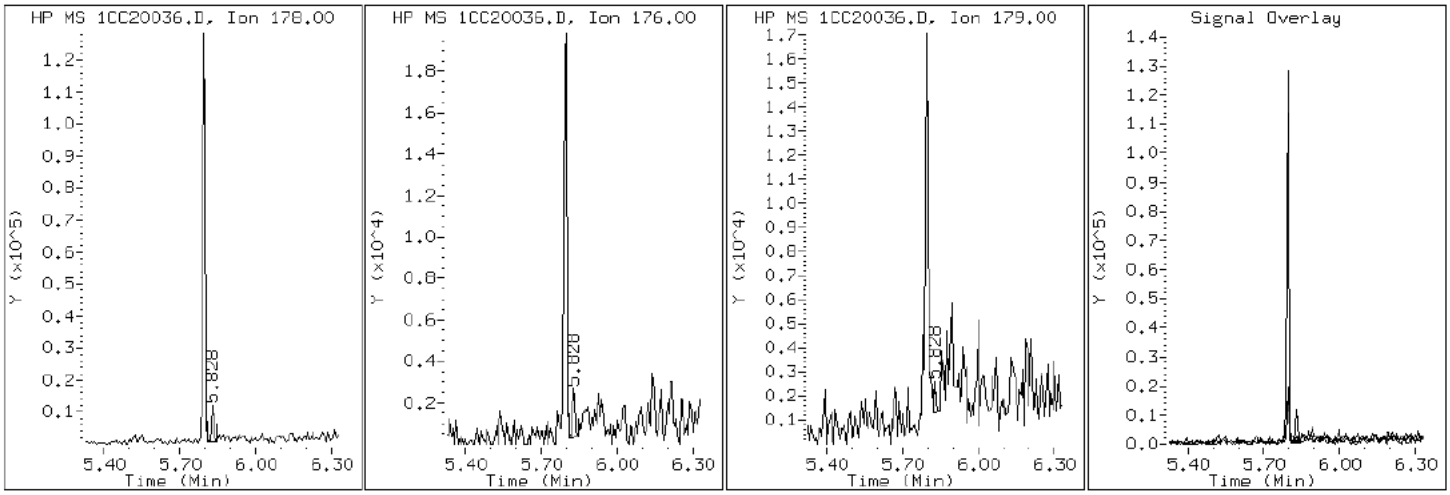
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

12 Anthracene



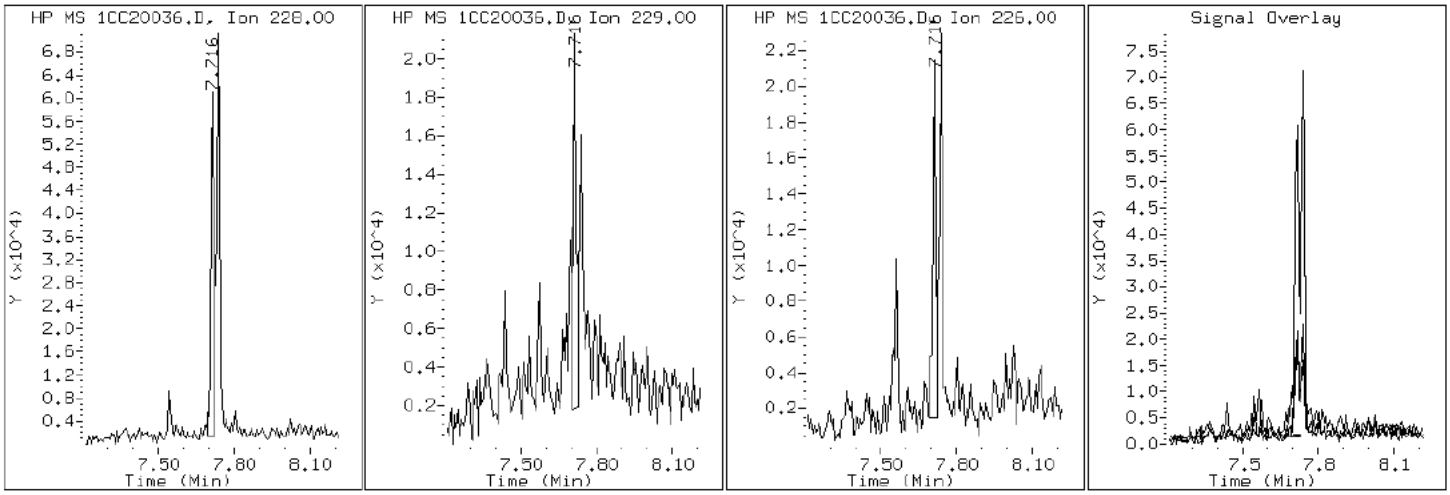
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

17 Benzo(a)anthracene



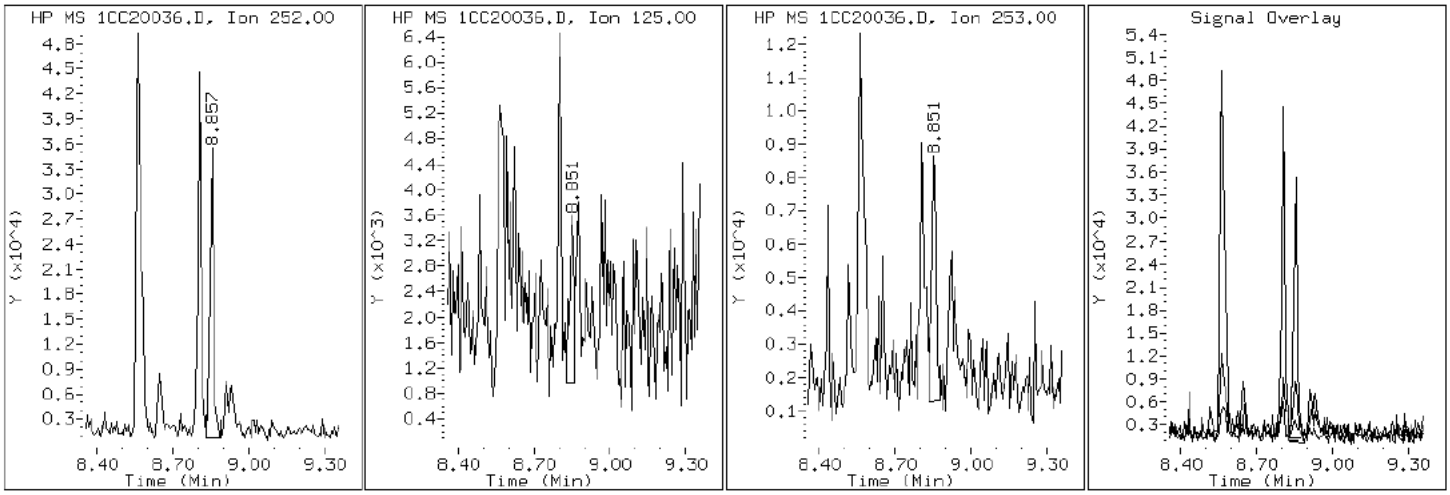
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

22 Benzo(a)pyrene



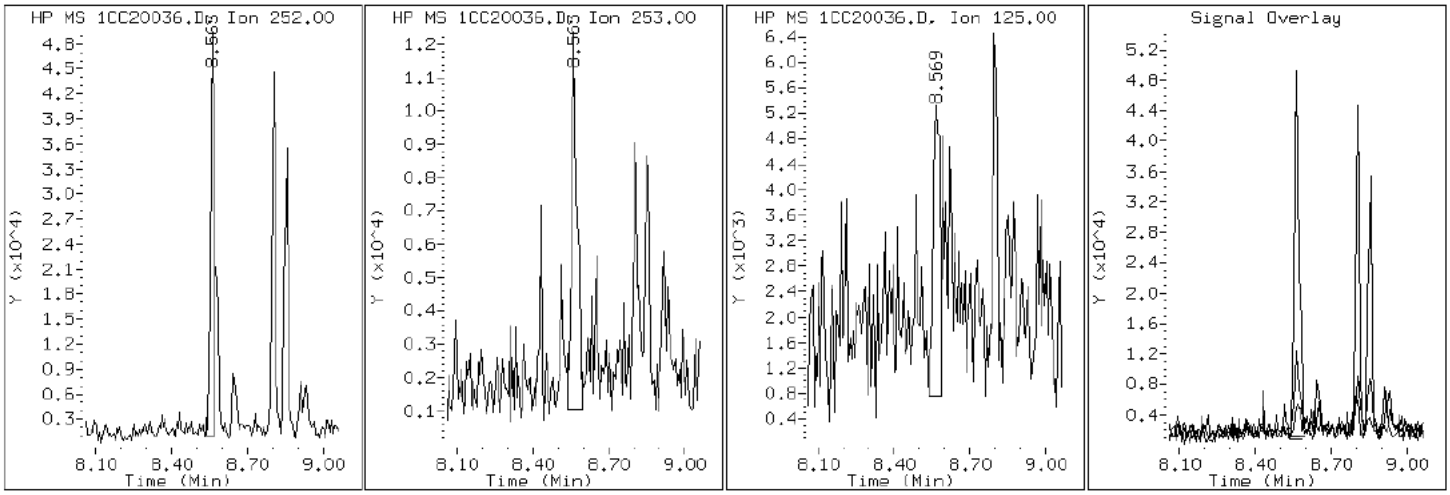
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



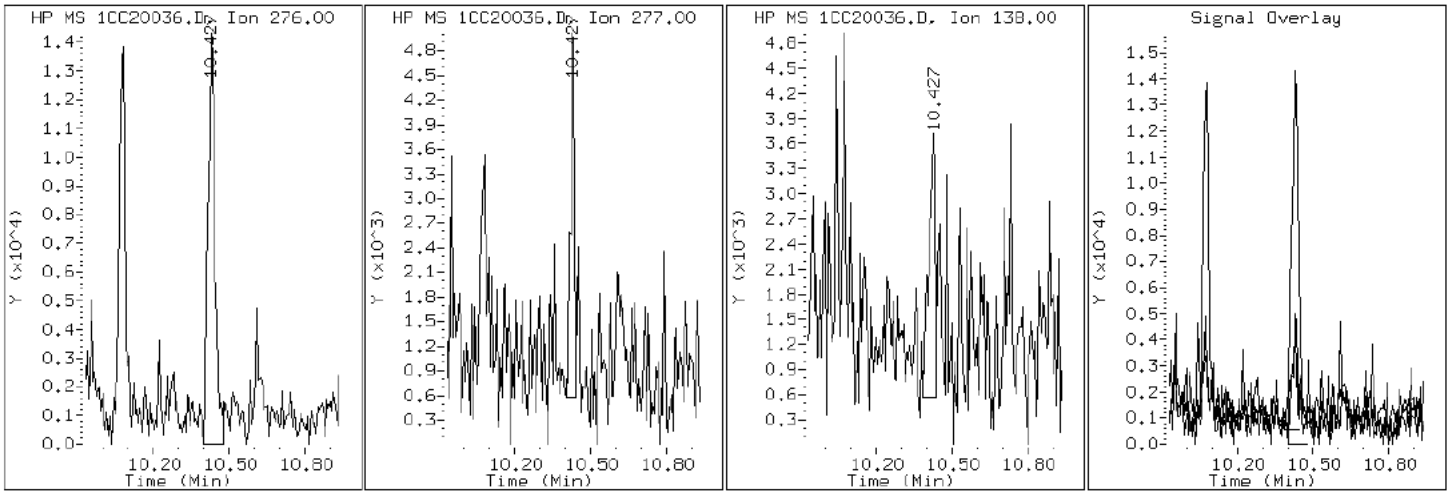
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



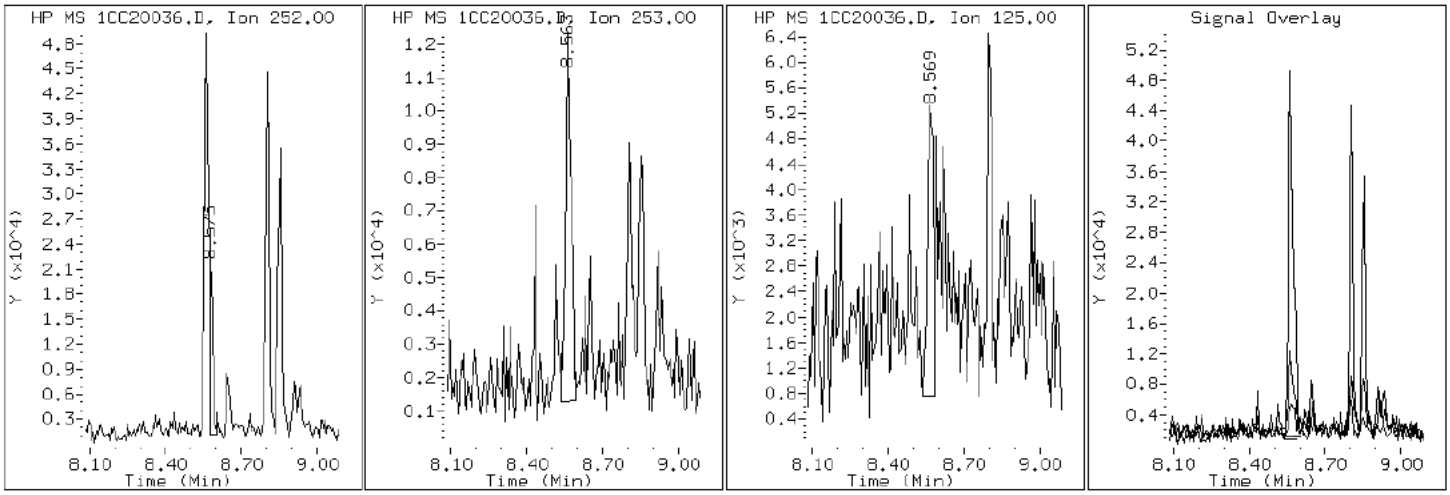
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



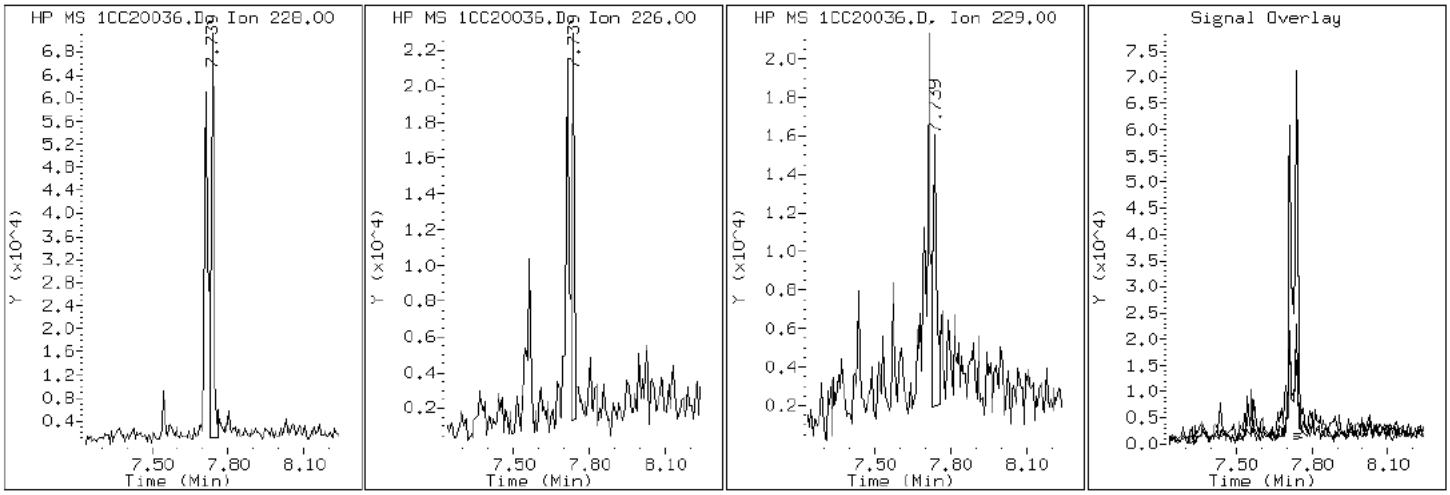
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

19 Chrysene



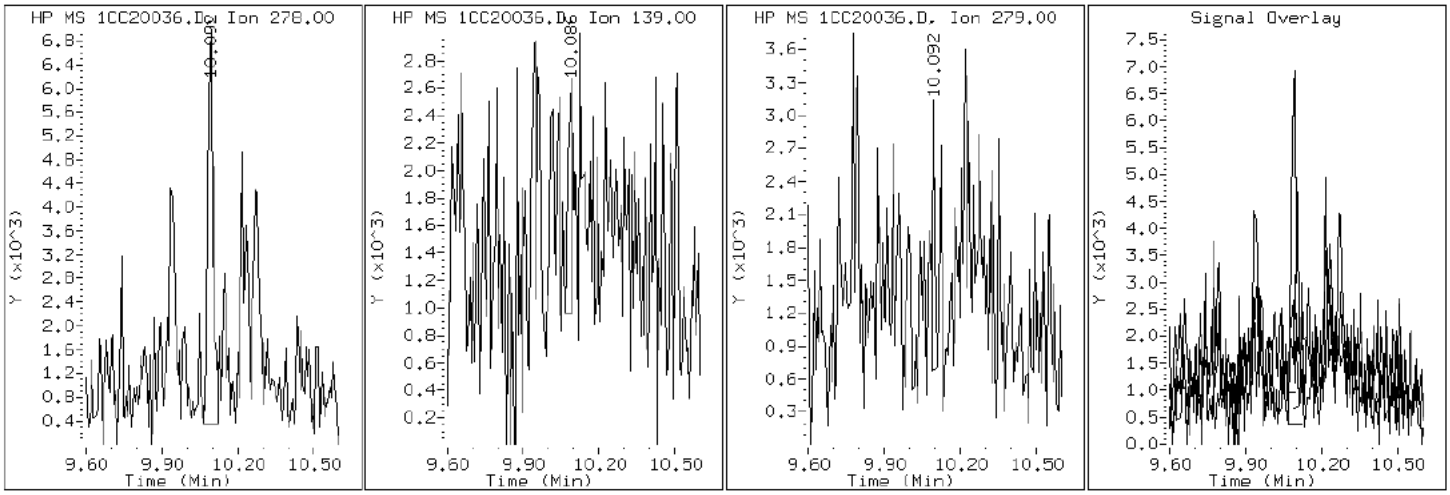
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

25 Dibenzo(a,h)anthracene



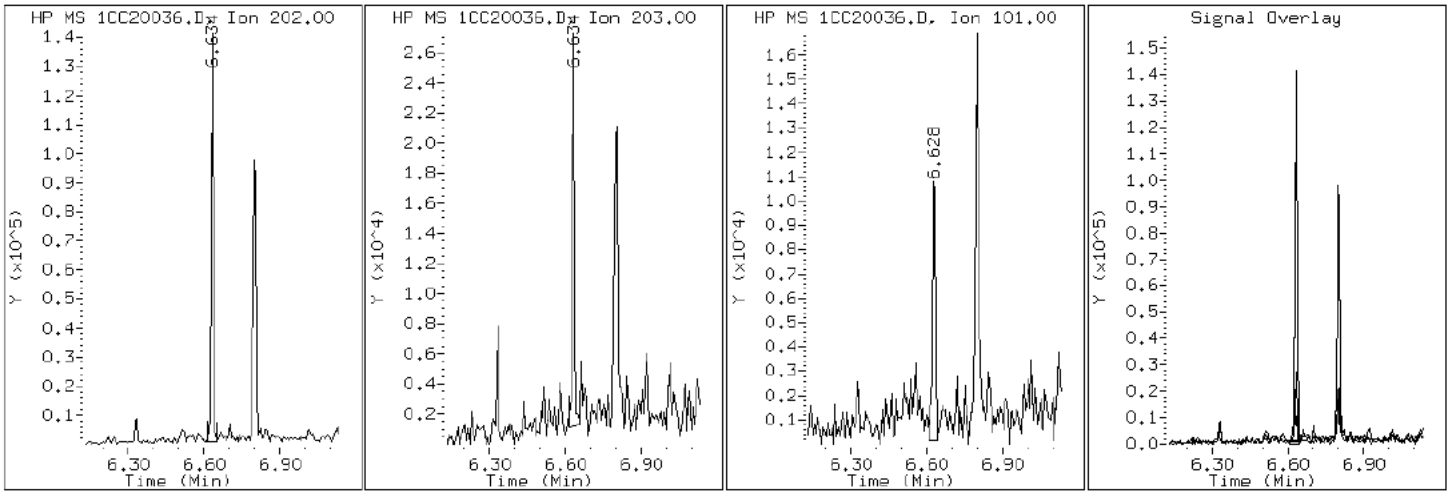
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

15 Fluoranthene



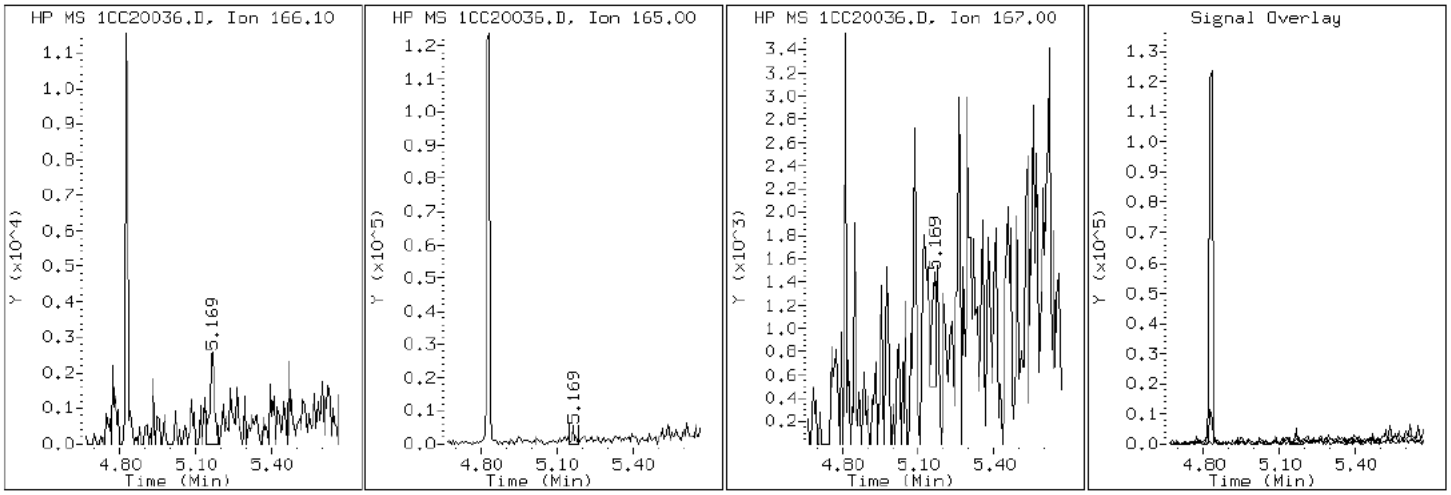
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

9 Fluorene



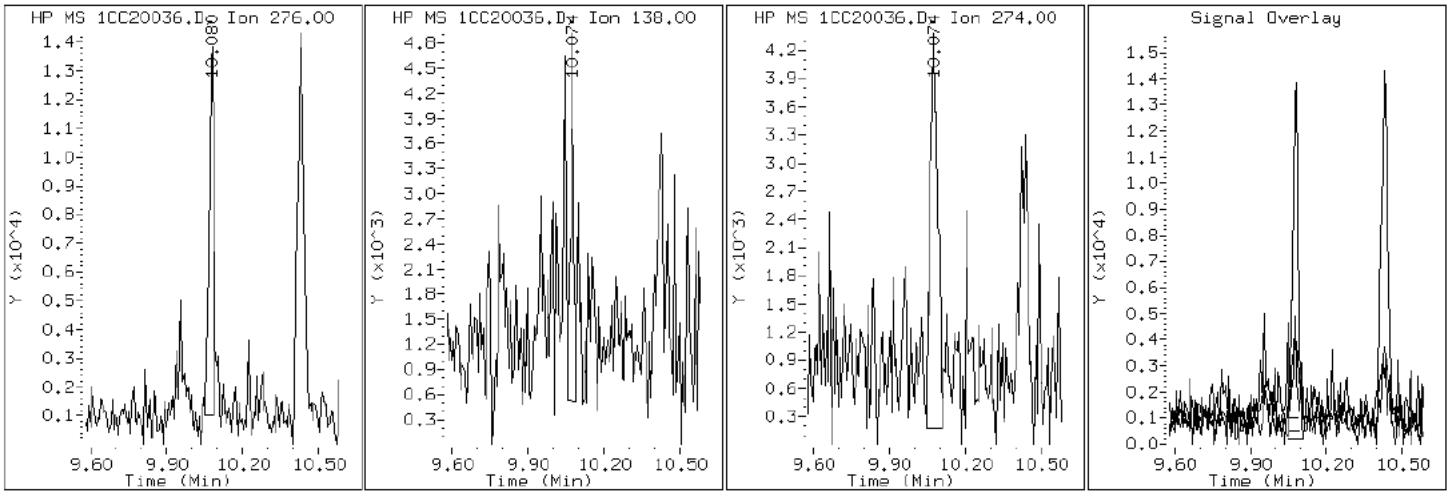
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

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



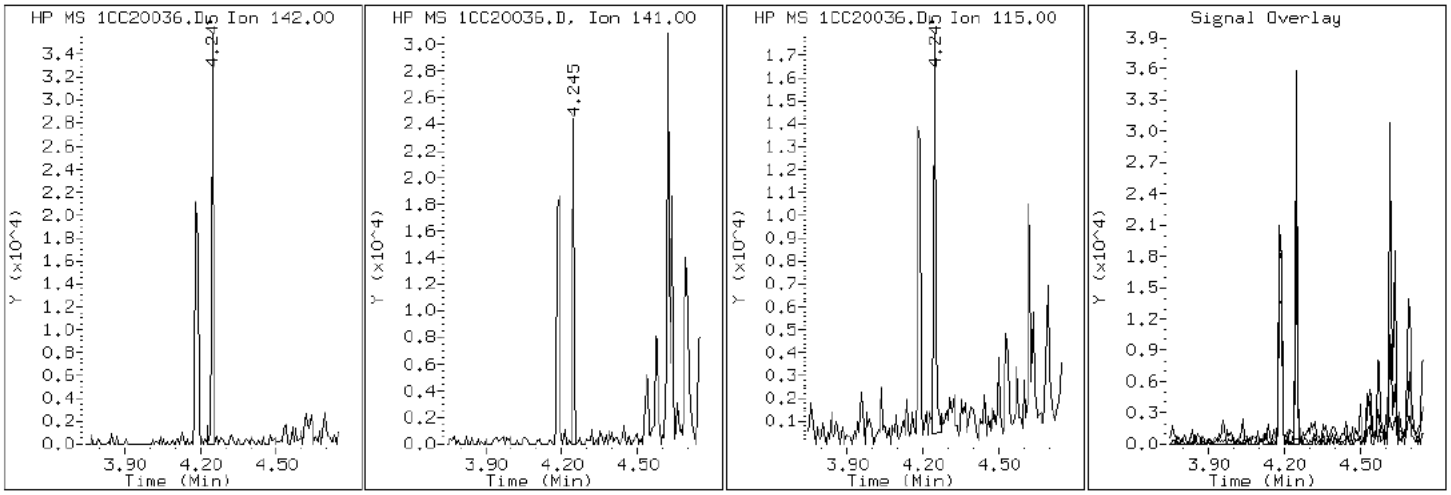
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

4 1-Methylnaphthalene



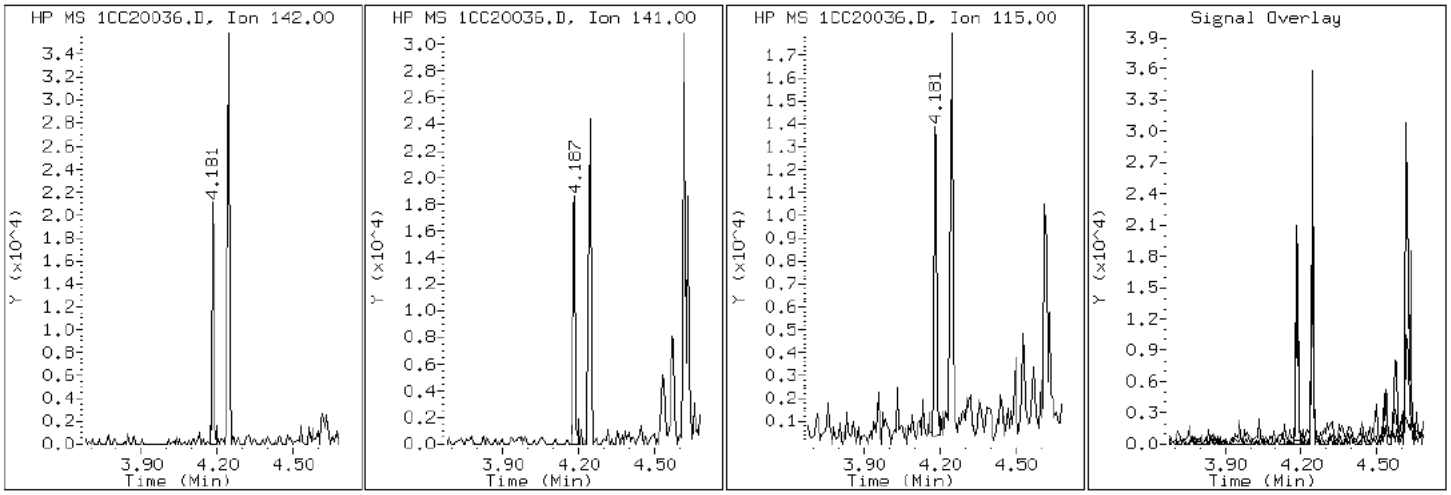
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

3 2-Methylnaphthalene



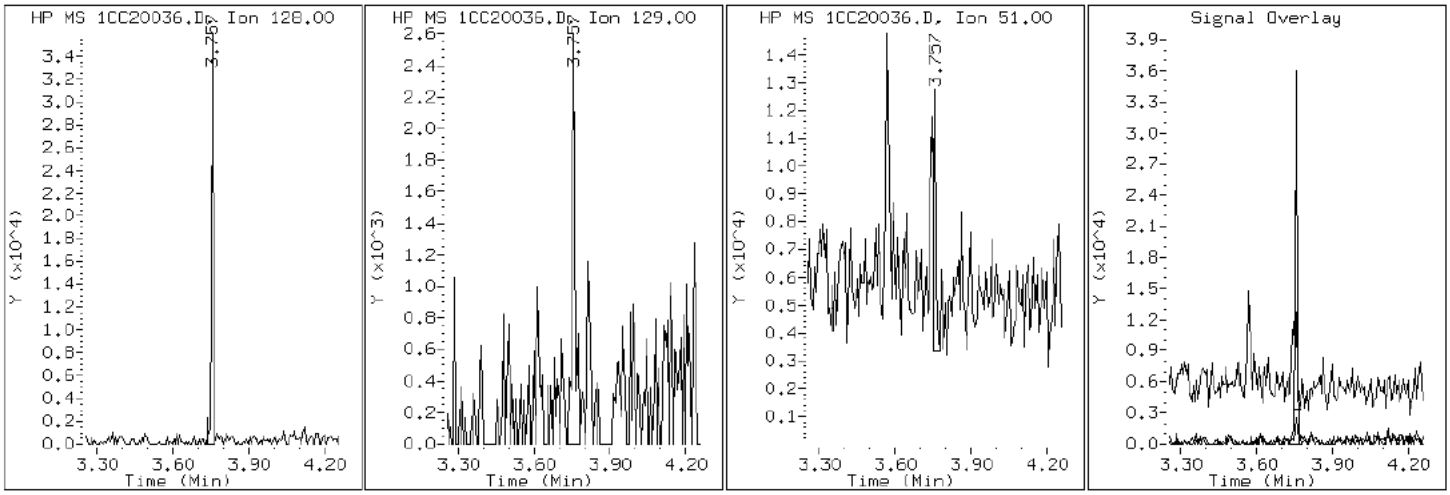
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

2 Naphthalene



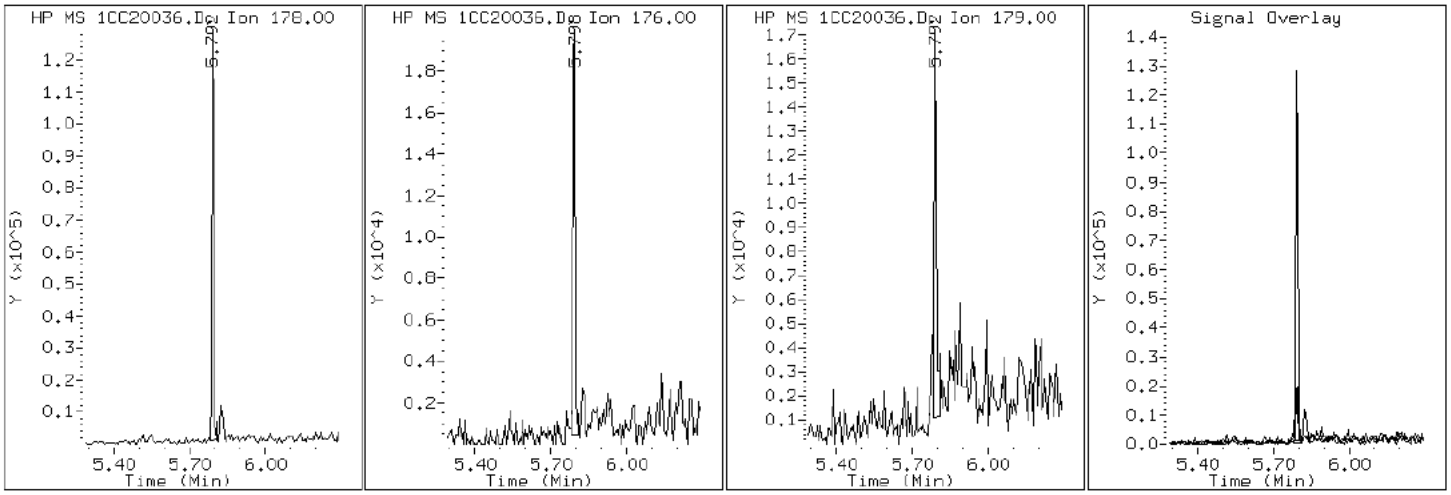
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

11 Phenanthrene



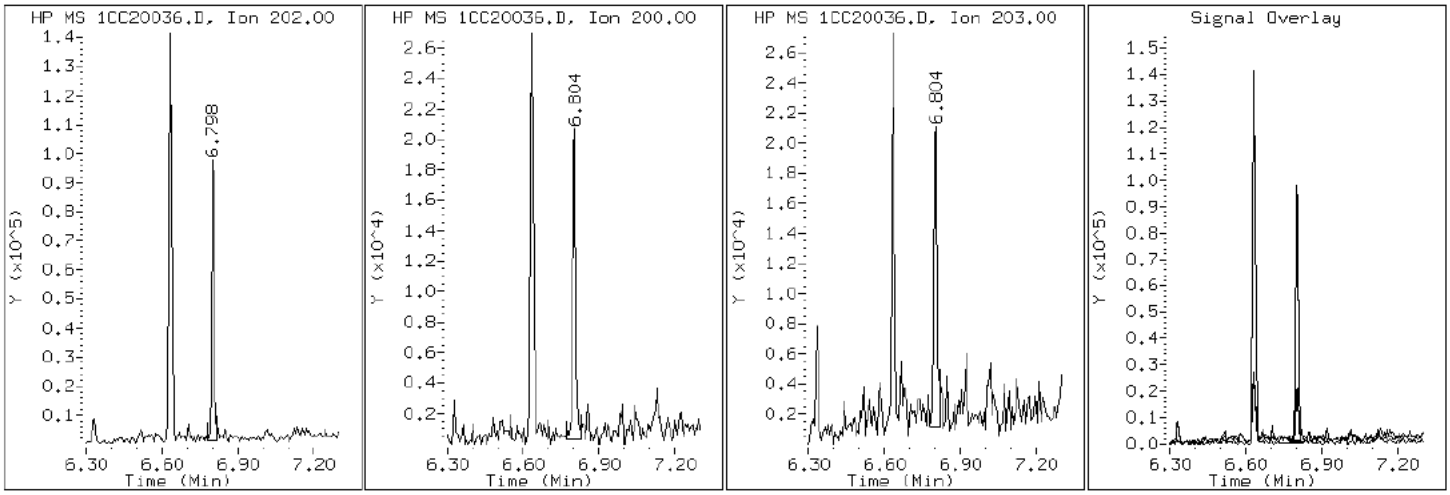
Data File: 1CC20036.D

Date: 20-MAR-2013 20:44

Client ID: CV0169B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20036.D
Inj. Date and Time: 20-MAR-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV0169B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

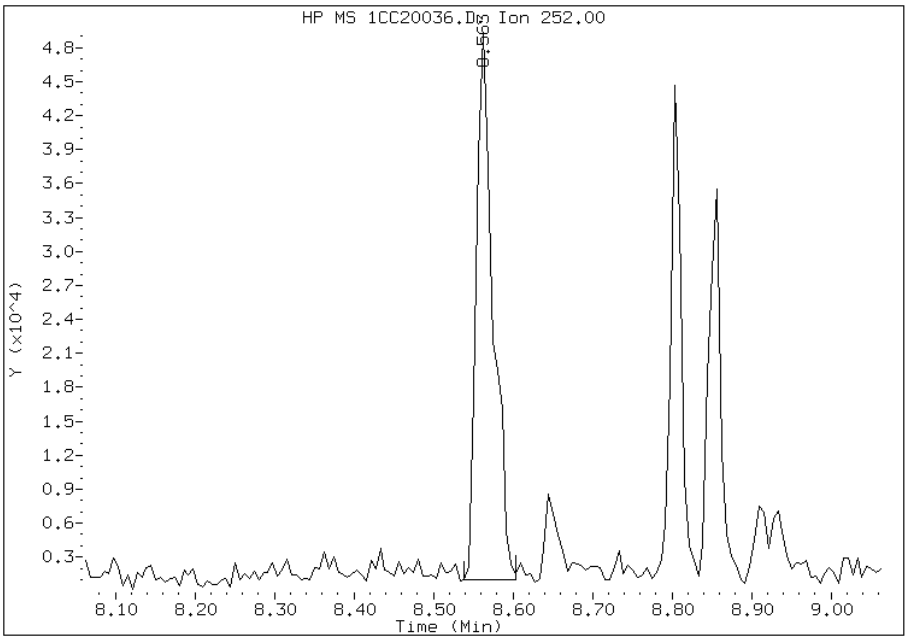
Processing Integration Results

RT: 8.56

Response: 70685

Amount: 2

Conc: 690



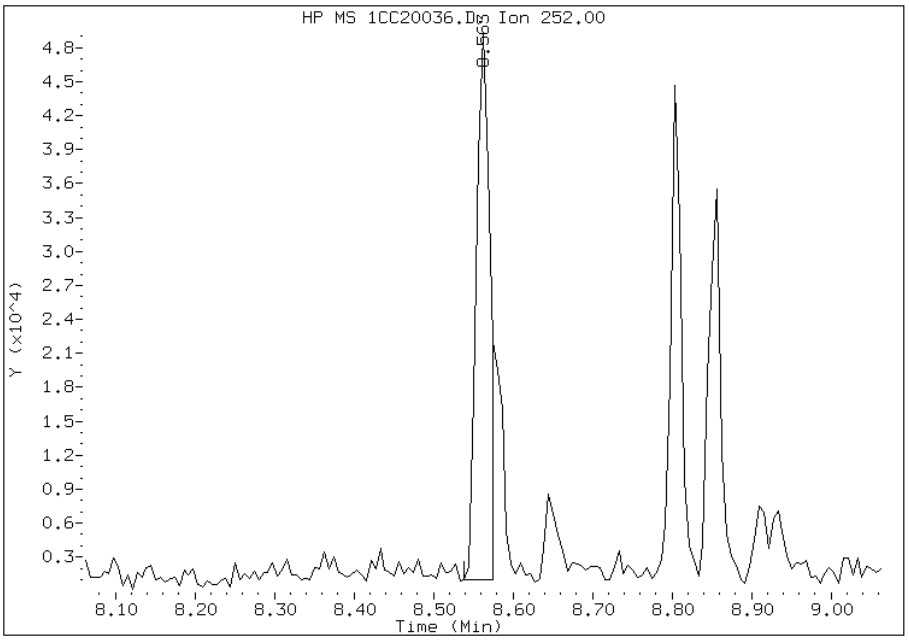
Manual Integration Results

RT: 8.56

Response: 56663

Amount: 2

Conc: 553



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20036.D
Inj. Date and Time: 20-MAR-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV0169B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

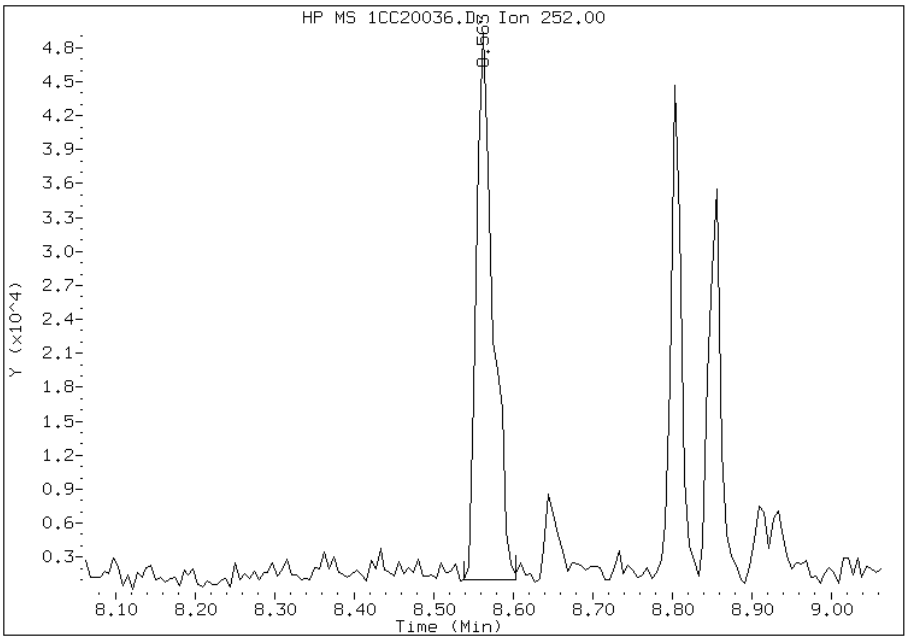
Processing Integration Results

RT: 8.56

Response: 70685

Amount: 2

Conc: 673



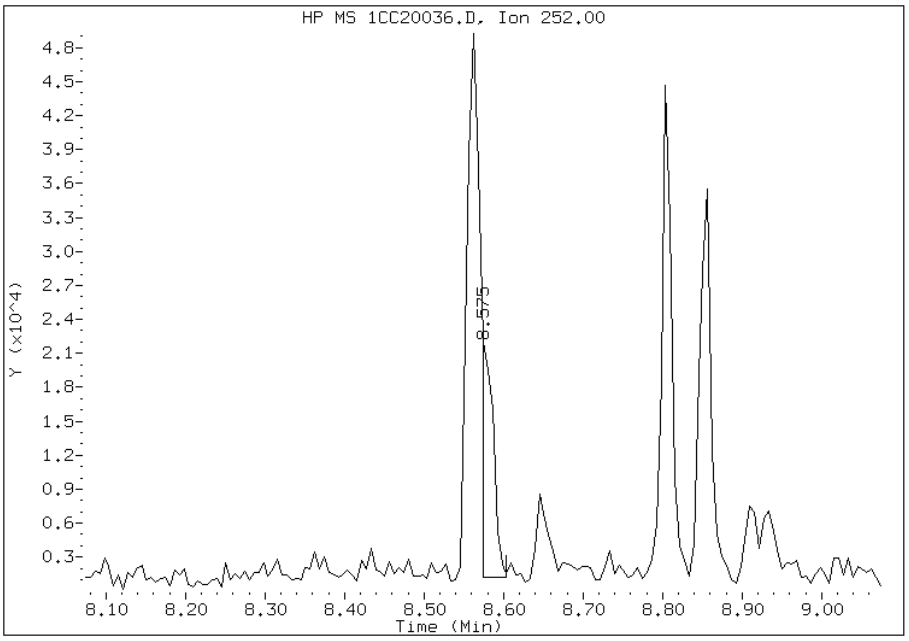
Manual Integration Results

RT: 8.57

Response: 21002

Amount: 1

Conc: 200



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20036.D
Inj. Date and Time: 20-MAR-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV0169B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

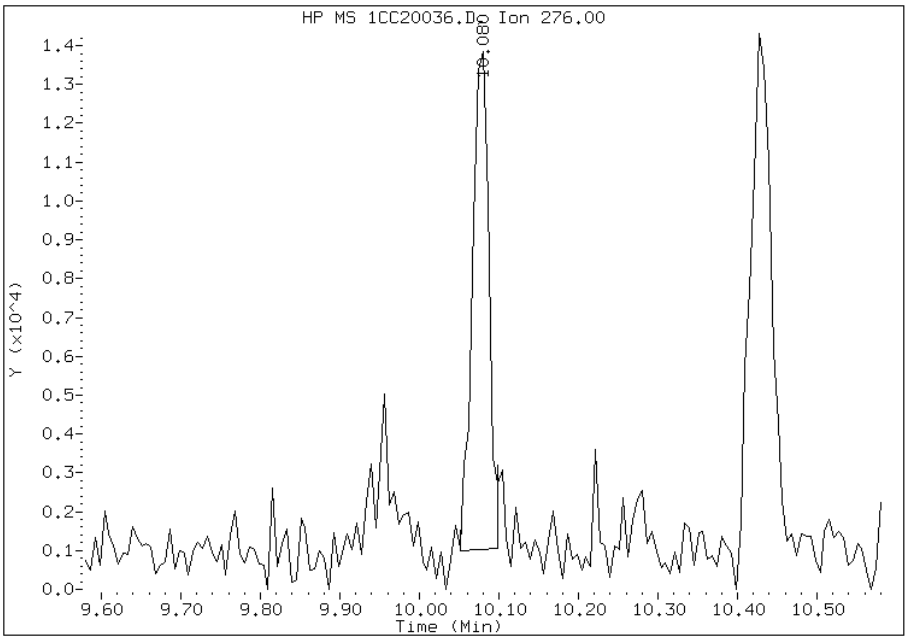
Processing Integration Results

RT: 10.08

Response: 18377

Amount: 1

Conc: 196



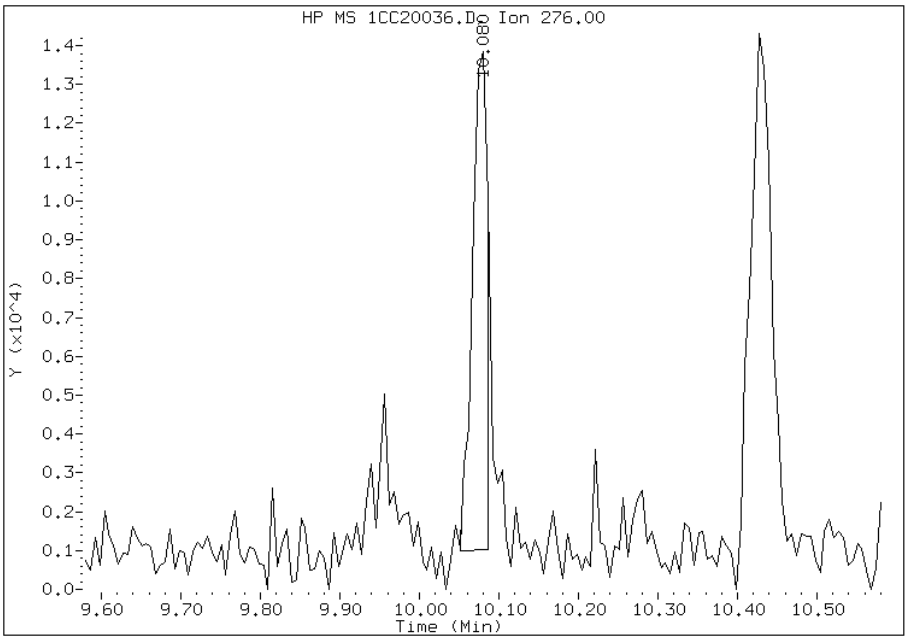
Manual Integration Results

RT: 10.08

Response: 16961

Amount: 1

Conc: 181



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0227A-CS-SP | Lab Sample ID: 680-88298-5

Matrix: Solid | Lab File ID: 1CC20039.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:45

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.07(g) | Date Analyzed: 03/20/2013 21:39

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

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

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	35	J	49	6.1
120-12-7	Anthracene	40		10	5.1
56-55-3	Benzo[a]anthracene	240		9.7	4.7
50-32-8	Benzo[a]pyrene	260		13	6.3
205-99-2	Benzo[b]fluoranthene	390		15	7.4
191-24-2	Benzo[g,h,i]perylene	160		24	5.3
207-08-9	Benzo[k]fluoranthene	170		9.7	4.4
218-01-9	Chrysene	330		11	5.5
53-70-3	Dibenz(a,h)anthracene	53		24	5.0
206-44-0	Fluoranthene	420		24	4.9
86-73-7	Fluorene	17	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	160		24	8.6
90-12-0	1-Methylnaphthalene	110		49	5.3
91-57-6	2-Methylnaphthalene	110		49	8.6
91-20-3	Naphthalene	96		49	5.3
85-01-8	Phenanthrene	290		9.7	4.7
129-00-0	Pyrene	400		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20039.D
Lab Smp Id: 680-88298-A-5-A Client Smp ID: CV0227A-CS-SP
Inj Date : 20-MAR-2013 21:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-5-a
Misc Info : 680-88298-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	18.035	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.745	3.745	(1.000)	973813	40.0000	
*	6 Acenaphthene-d10	164	4.833	4.827	(1.000)	720399	40.0000	
*	10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1355150	40.0000	
$	14 o-Terphenyl	230	6.027	6.027	(1.043)	113231	5.53414	448.0336
*	18 Chrysene-d12	240	7.721	7.721	(1.000)	1389318	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	1345010	40.0000	
	2 Naphthalene	128	3.757	3.757	(1.003)	29975	1.18235	95.7209
	3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	23328	1.37946	111.6788
	4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	20485	1.33004	107.6775
	5 Acenaphthylene	152	4.745	4.745	(0.982)	12407	0.42718	34.5833
	9 Fluorene	166	5.168	5.169	(1.069)	4713	0.20643	16.7123(Q)
	11 Phenanthrene	178	5.792	5.792	(1.002)	138802	3.54223	286.7721
	12 Anthracene	178	5.827	5.827	(1.008)	18743	0.48908	39.5953
	13 Carbazole	167	5.939	5.933	(1.027)	19123	0.56135	45.4457

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	220495	5.13828	415.9852
16 Pyrene	202	6.804	6.798	(0.881)	185885	4.97872	403.0677
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	116865	2.91446	235.9489
19 Chrysene	228	7.739	7.739	(1.002)	163987	4.08654	330.8391
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	169499	4.82215	390.3921(M)
21 Benzo(k)fluoranthene	252	8.574	8.586	(0.962)	74211	2.05807	166.6174(QM)
22 Benzo(a)pyrene	252	8.856	8.857	(0.994)	111596	3.26856	264.6164
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.080	(1.131)	62755	1.95388	158.1821(M)
25 Dibenzo(a,h)anthracene	278	10.097	10.098	(1.133)	20745	0.66033	53.4590
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	67483	2.00852	162.6061

QC Flag Legend

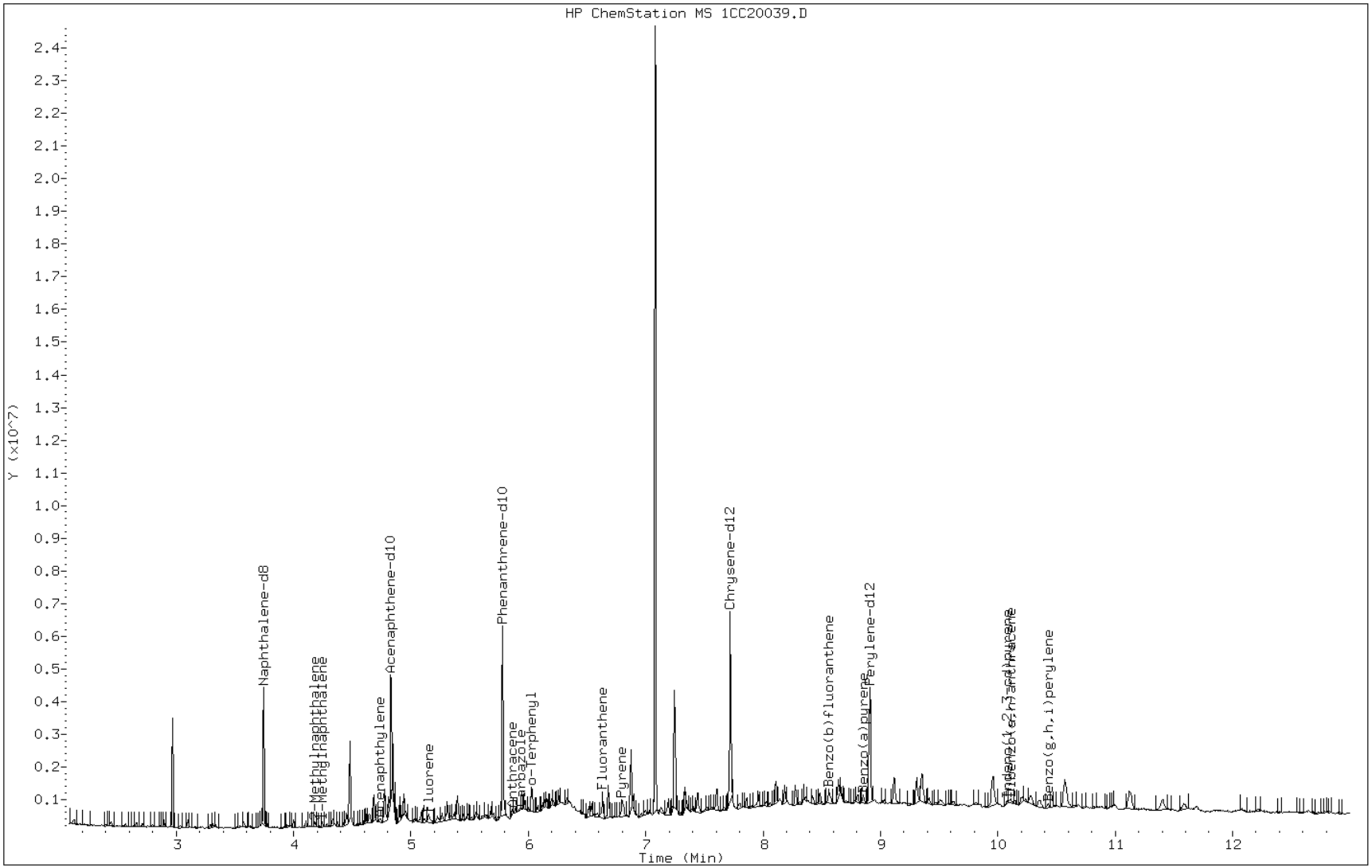
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC



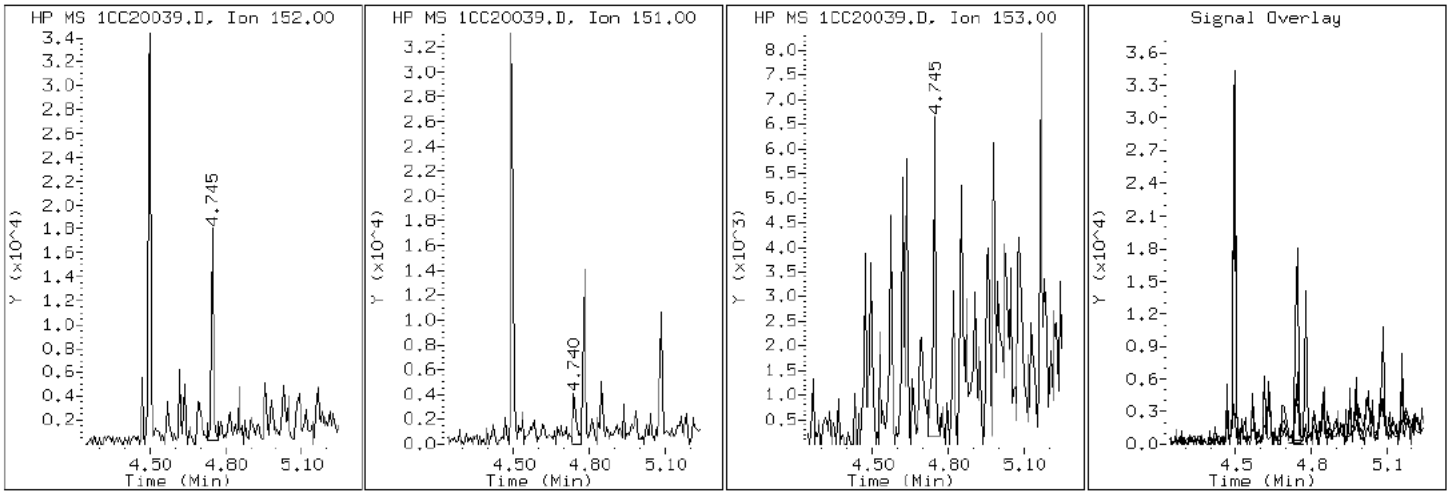
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

5 Acenaphthylene



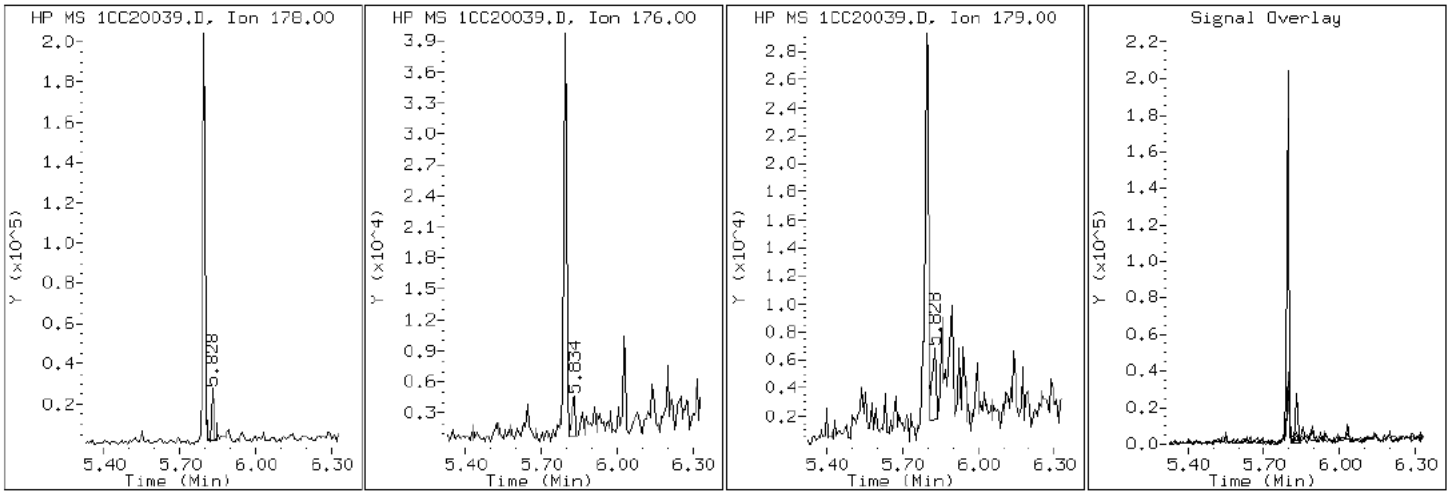
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

12 Anthracene



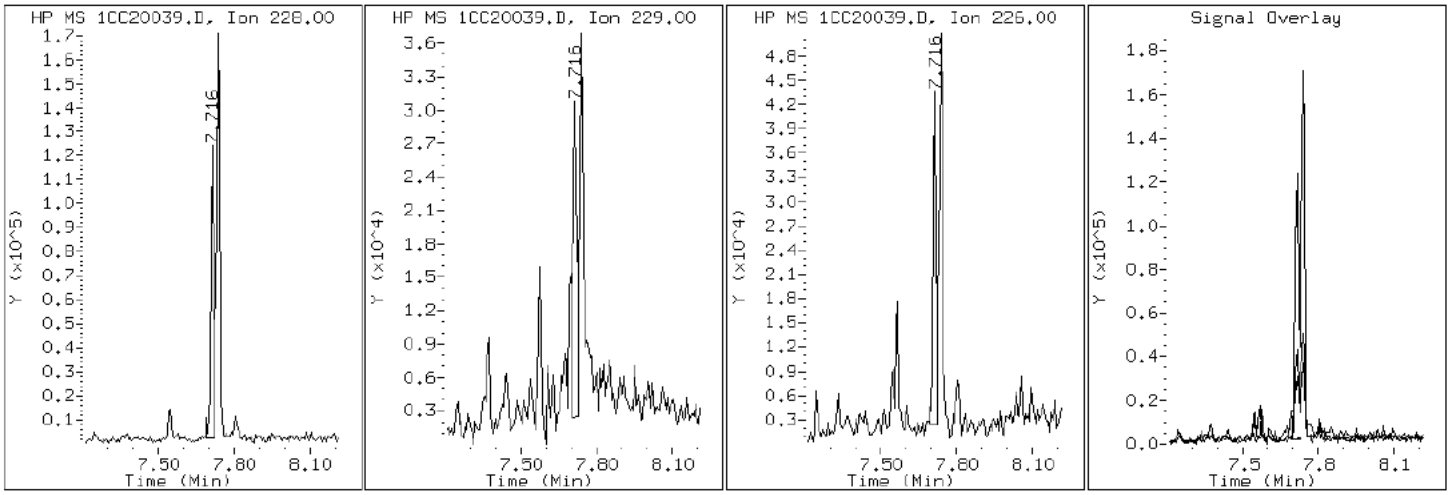
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

17 Benzo(a)anthracene



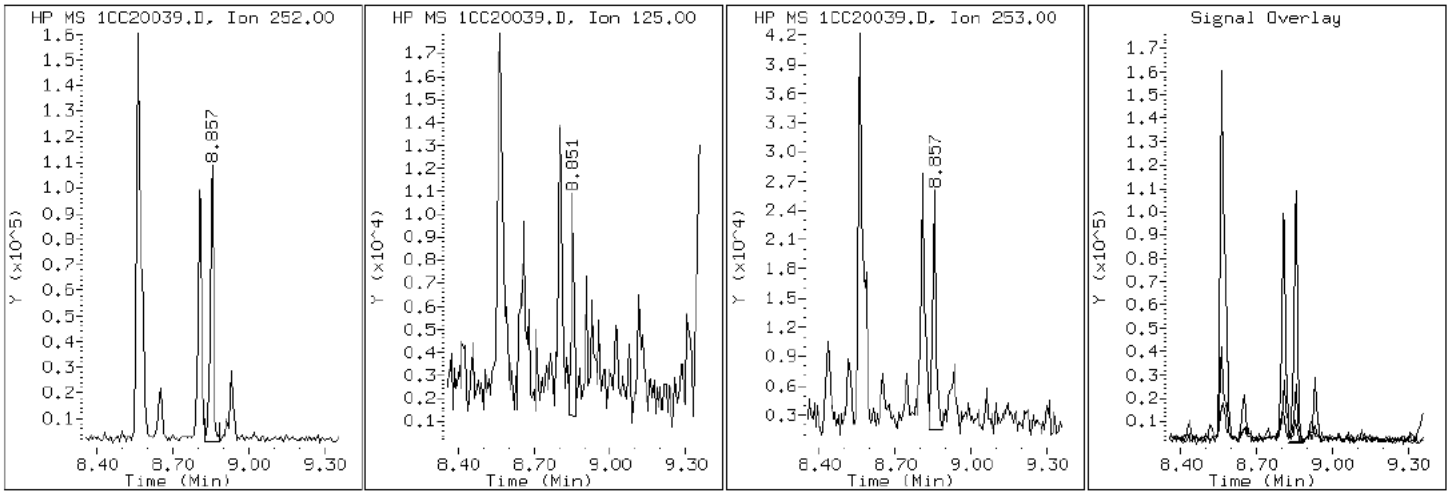
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

22 Benzo(a)pyrene



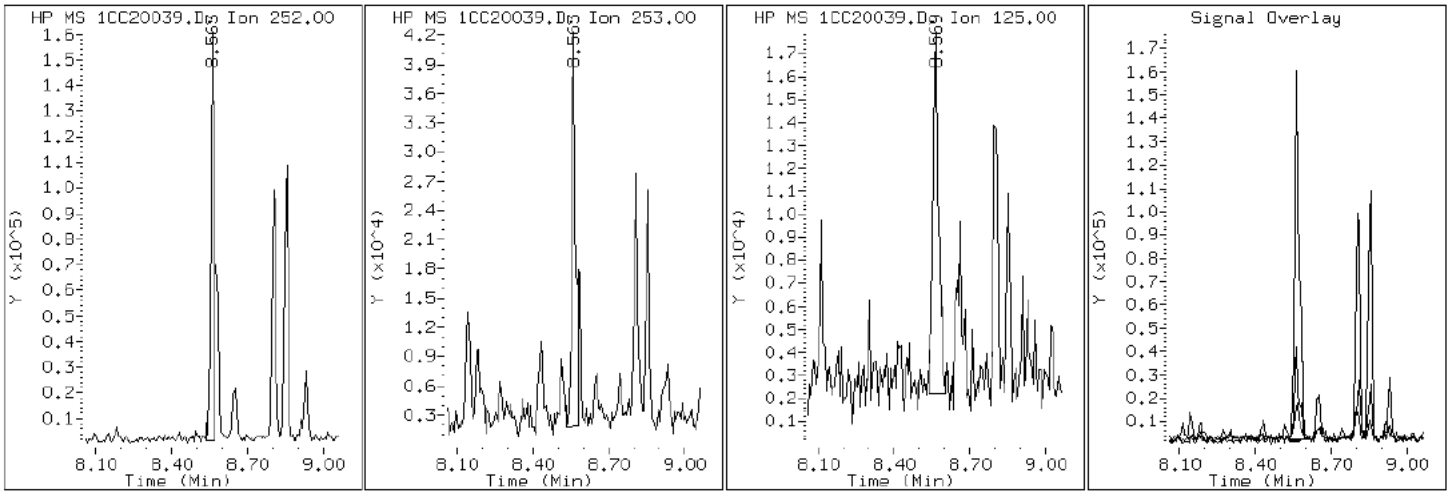
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



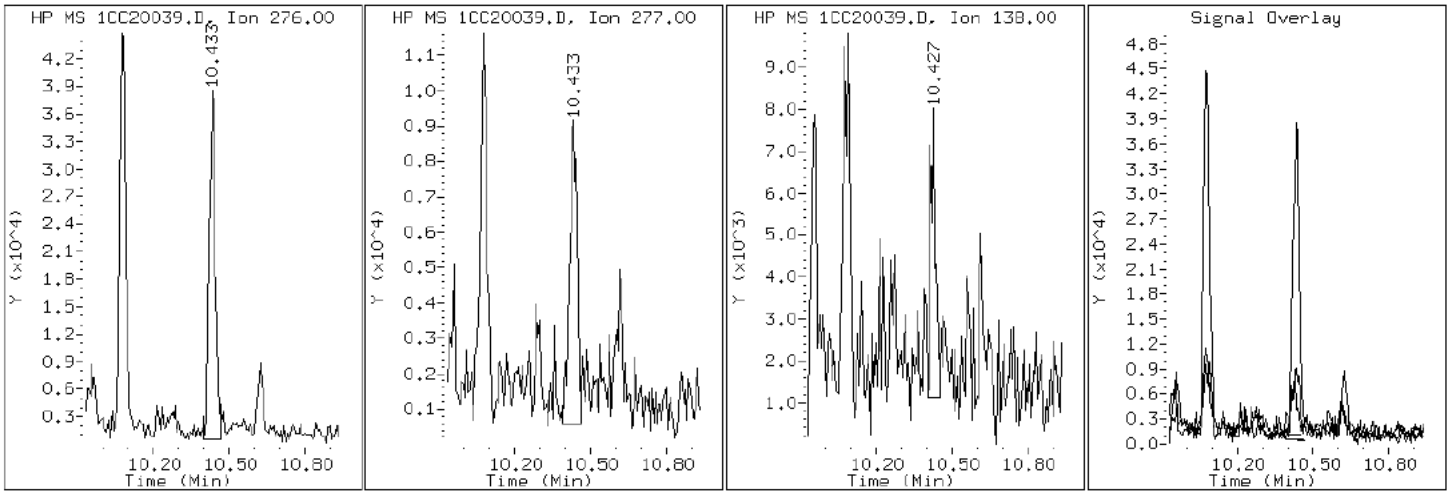
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



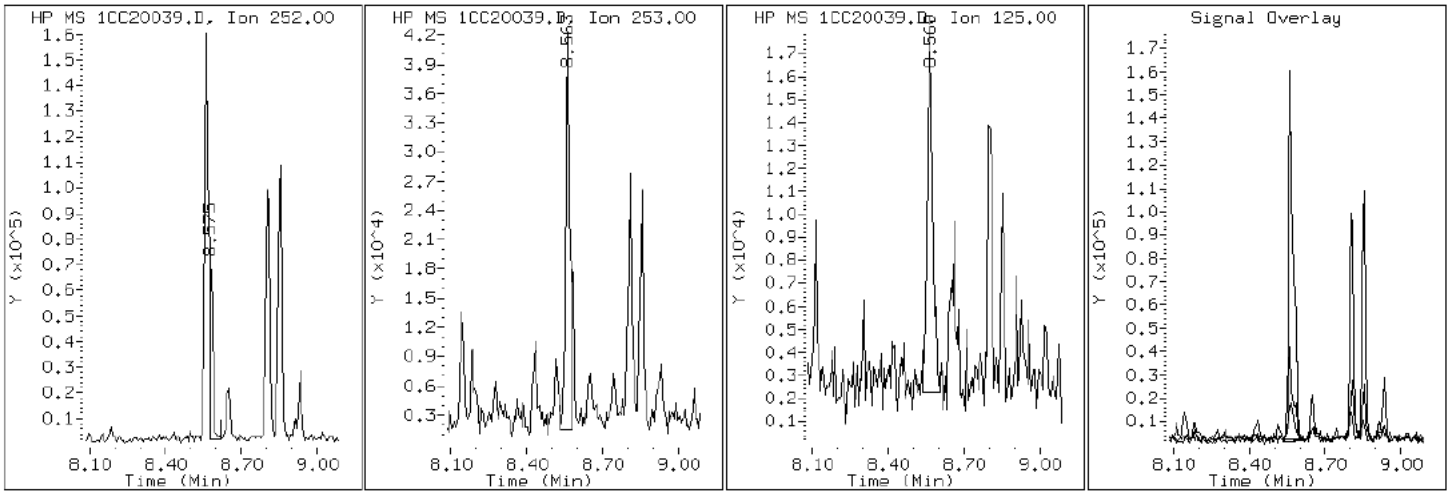
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



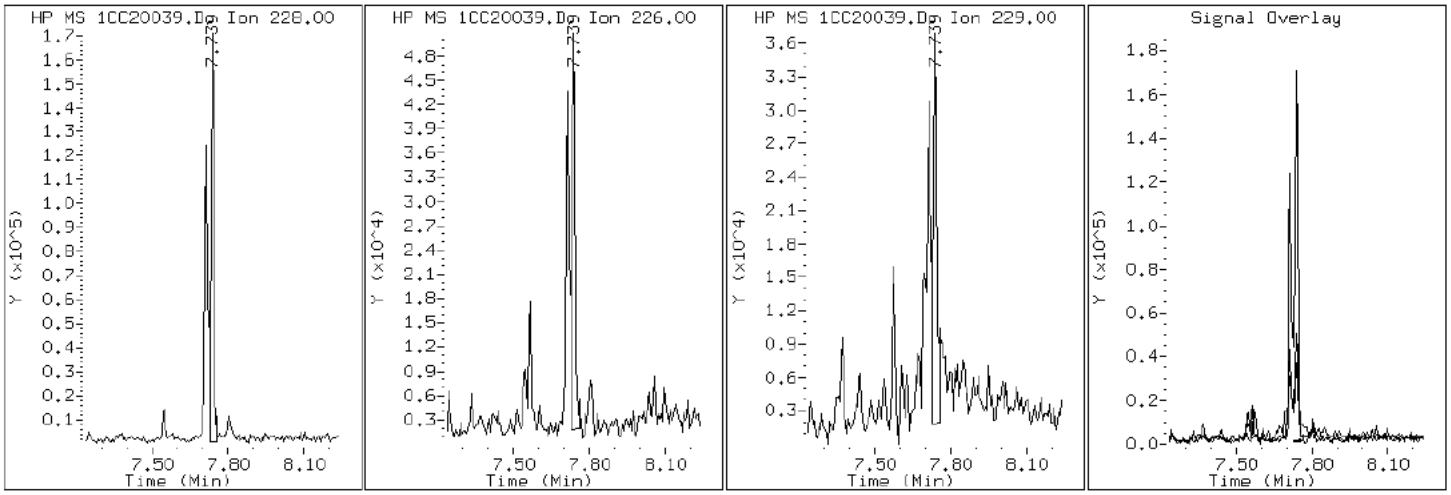
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

19 Chrysene



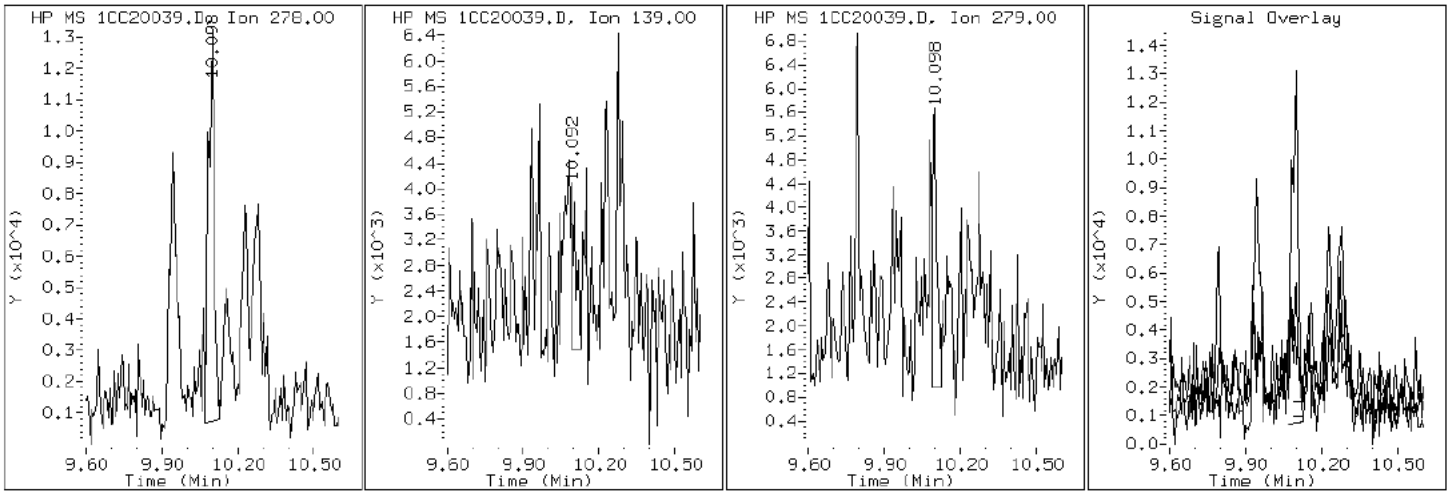
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



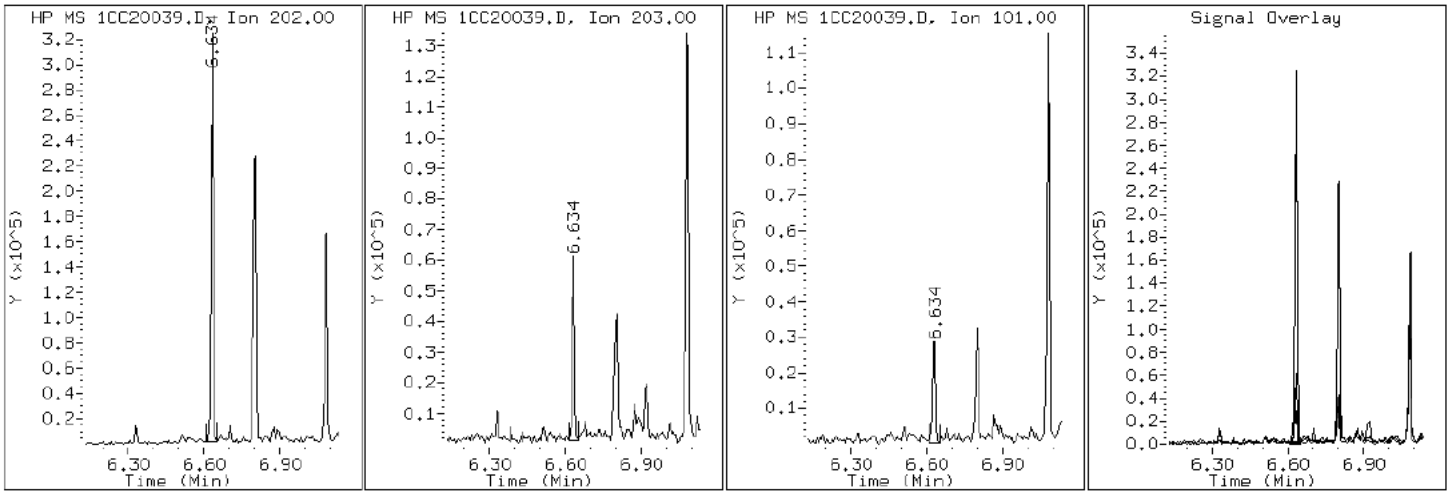
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

15 Fluoranthene



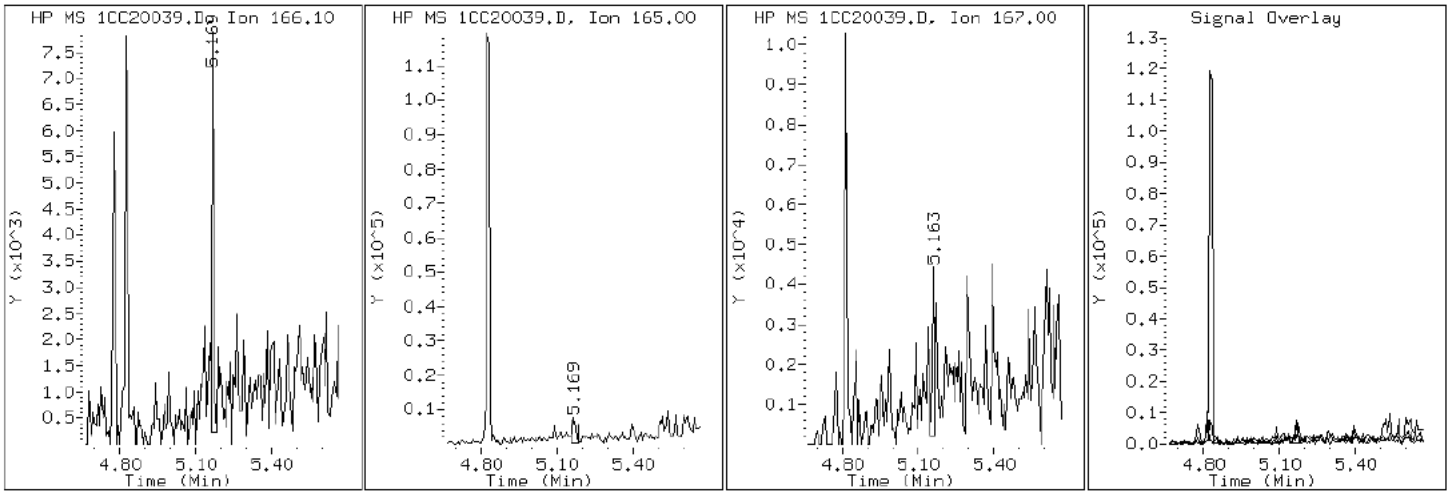
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

9 Fluorene



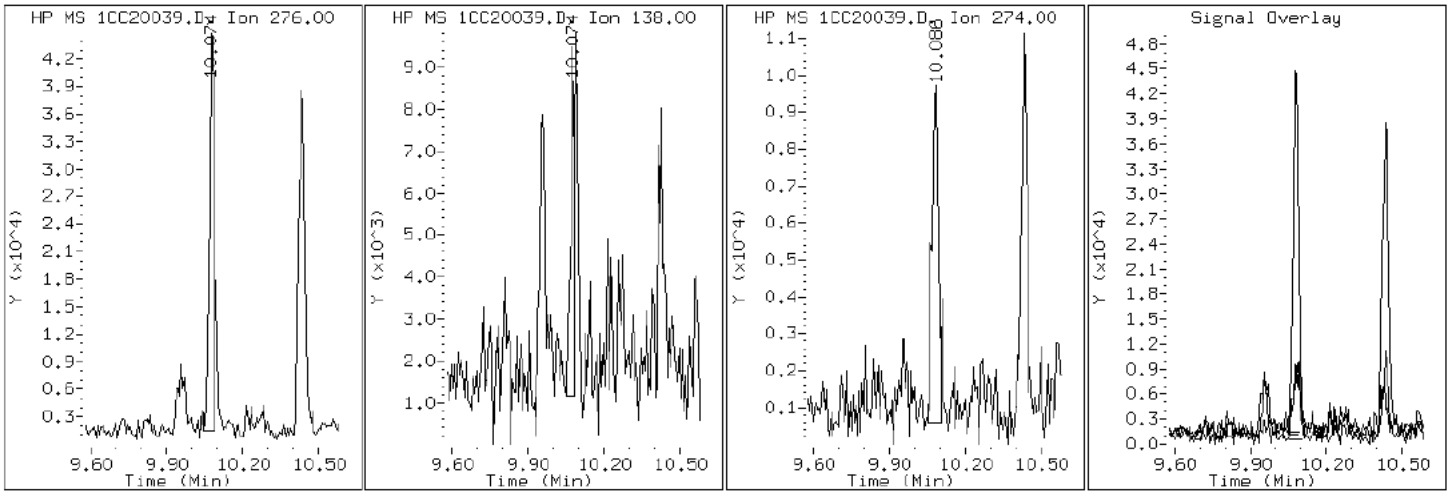
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

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



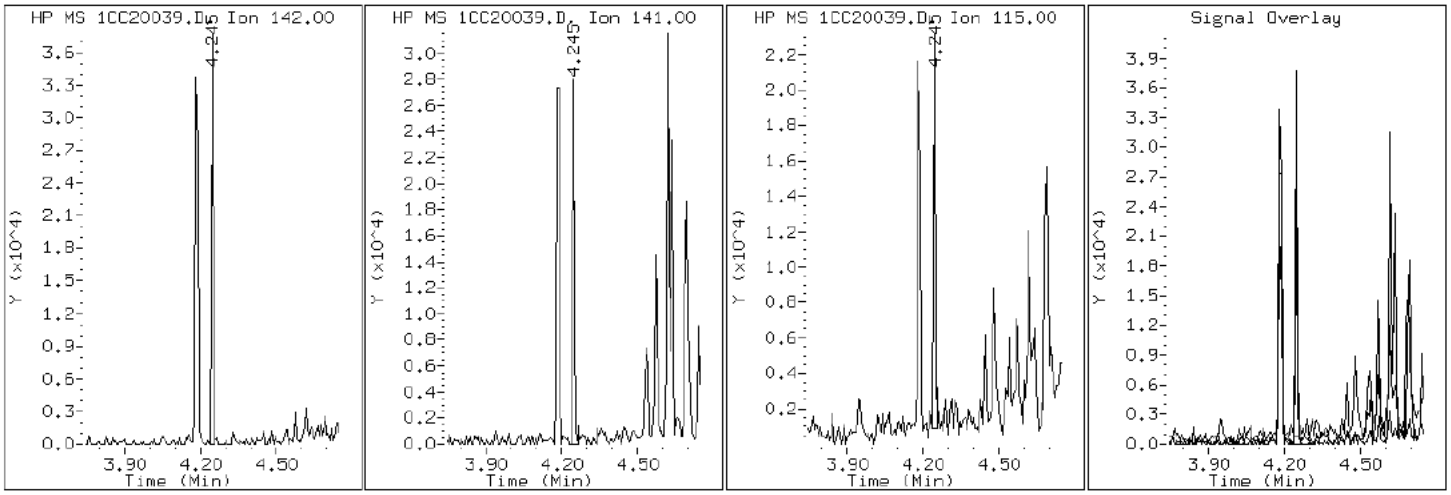
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

4 1-Methylnaphthalene



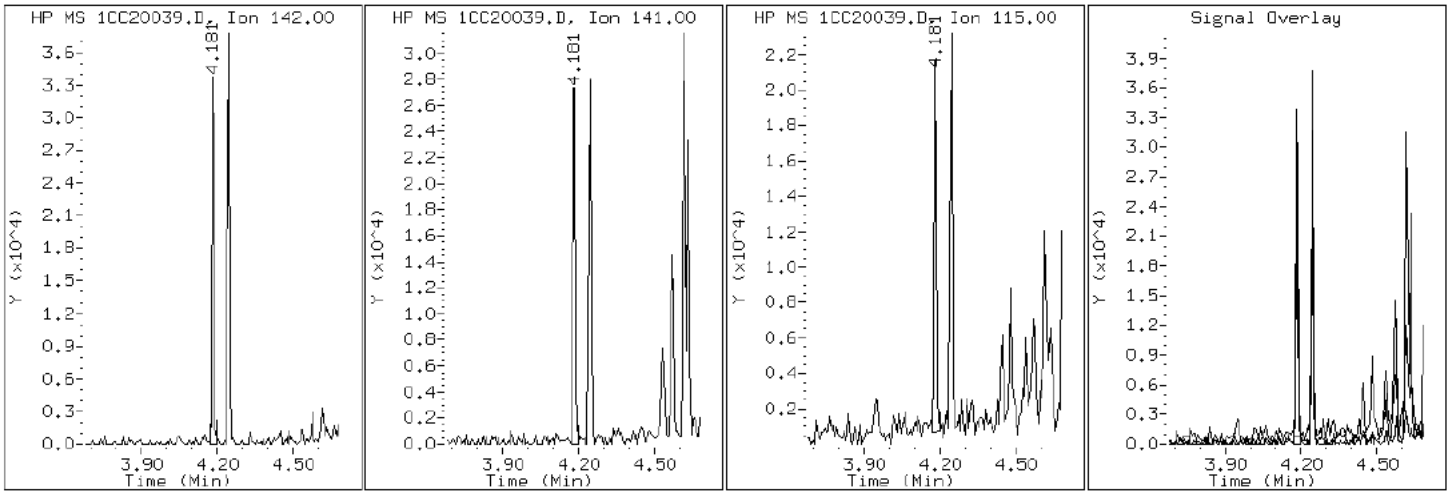
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

3 2-Methylnaphthalene



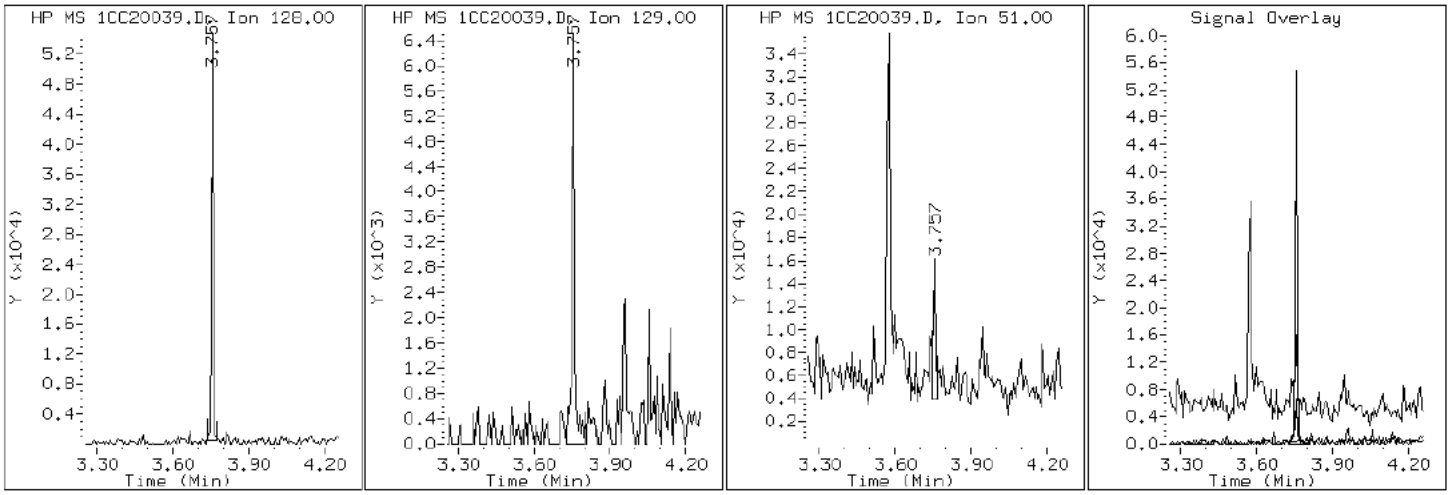
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

2 Naphthalene



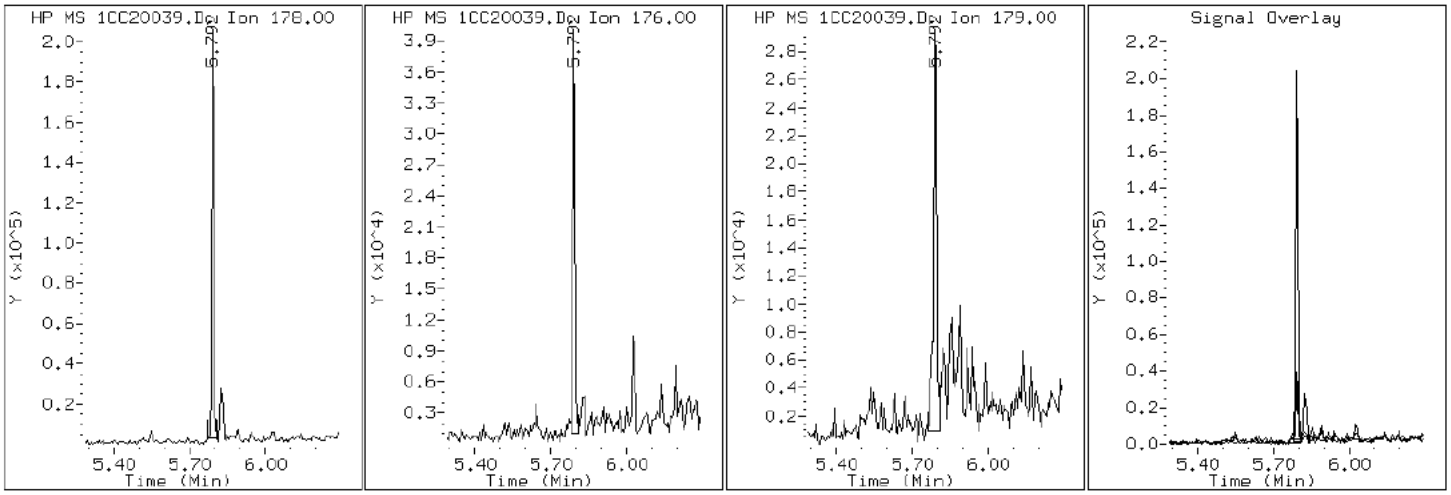
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

11 Phenanthrene



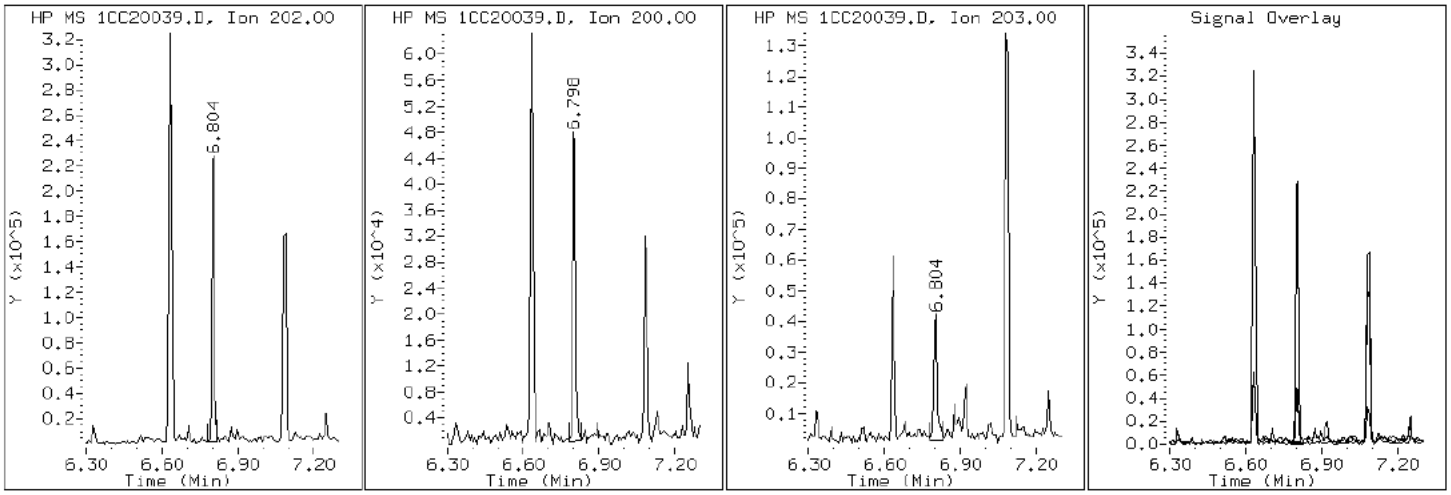
Data File: 1CC20039.D

Date: 20-MAR-2013 21:39

Client ID: CV0227A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20039.D
Inj. Date and Time: 20-MAR-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV0227A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

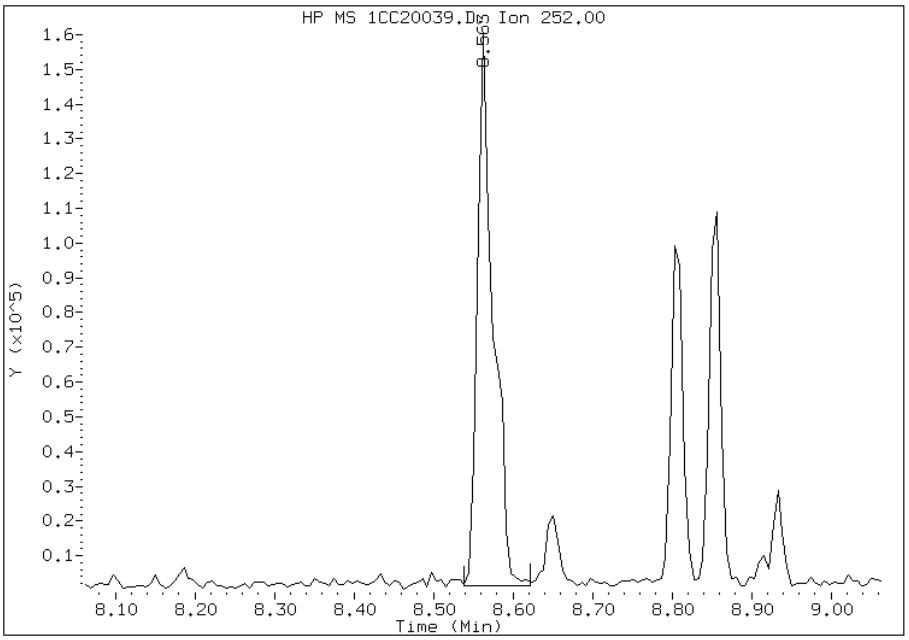
Processing Integration Results

RT: 8.56

Response: 219941

Amount: 6

Conc: 507



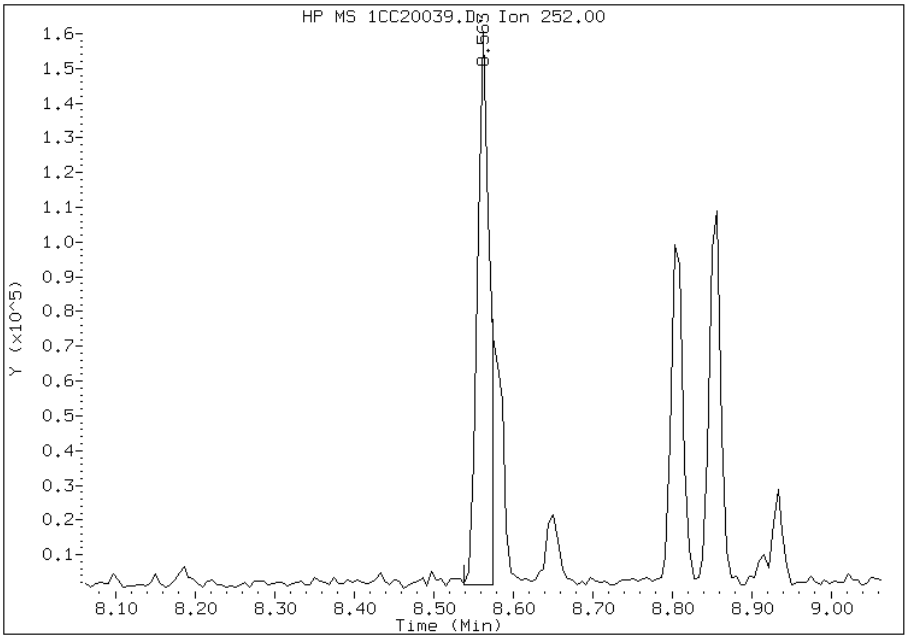
Manual Integration Results

RT: 8.56

Response: 169499

Amount: 5

Conc: 390



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20039.D
Inj. Date and Time: 20-MAR-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV0227A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

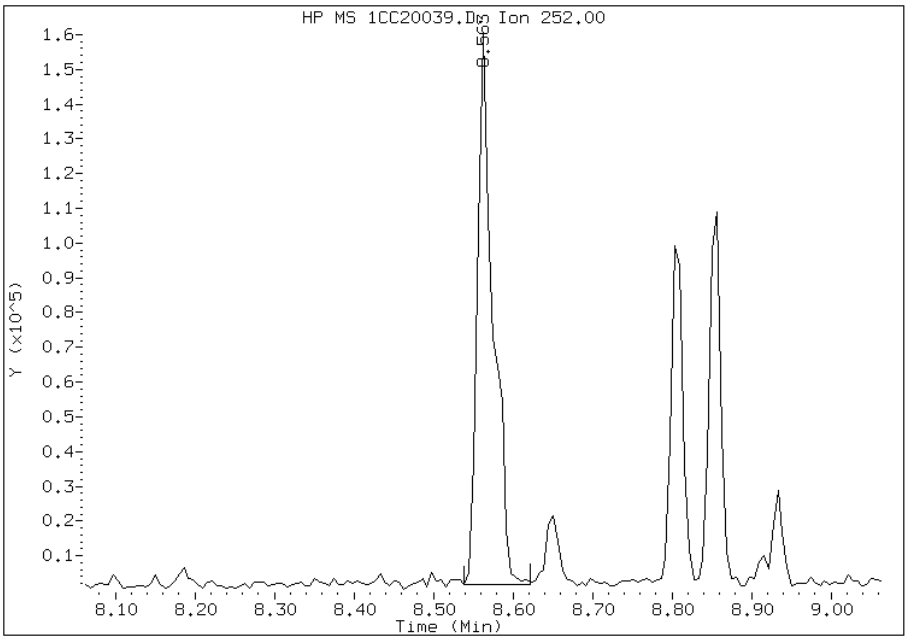
Processing Integration Results

RT: 8.56

Response: 218403

Amount: 6

Conc: 490



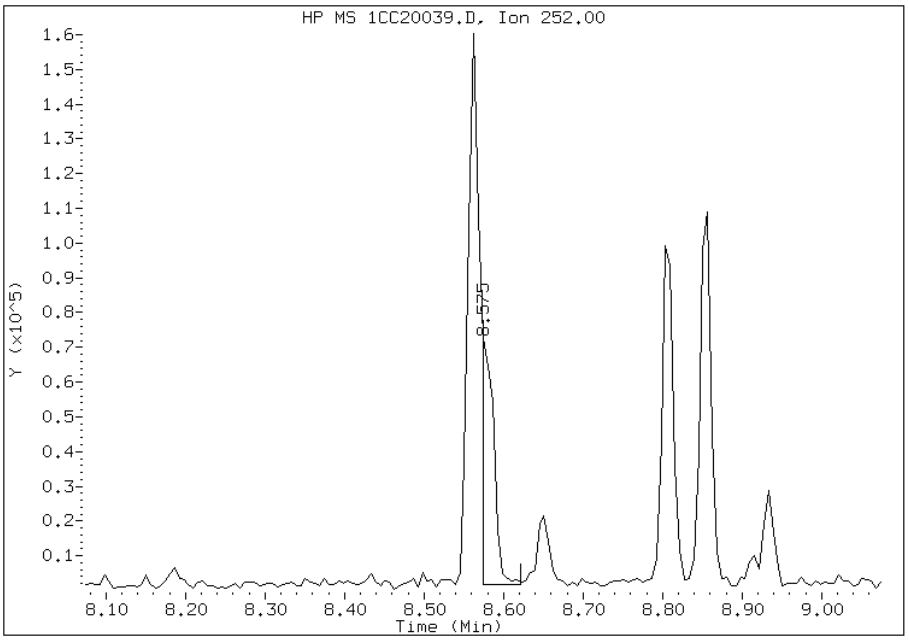
Manual Integration Results

RT: 8.57

Response: 74211

Amount: 2

Conc: 167



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20039.D
Inj. Date and Time: 20-MAR-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV0227A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

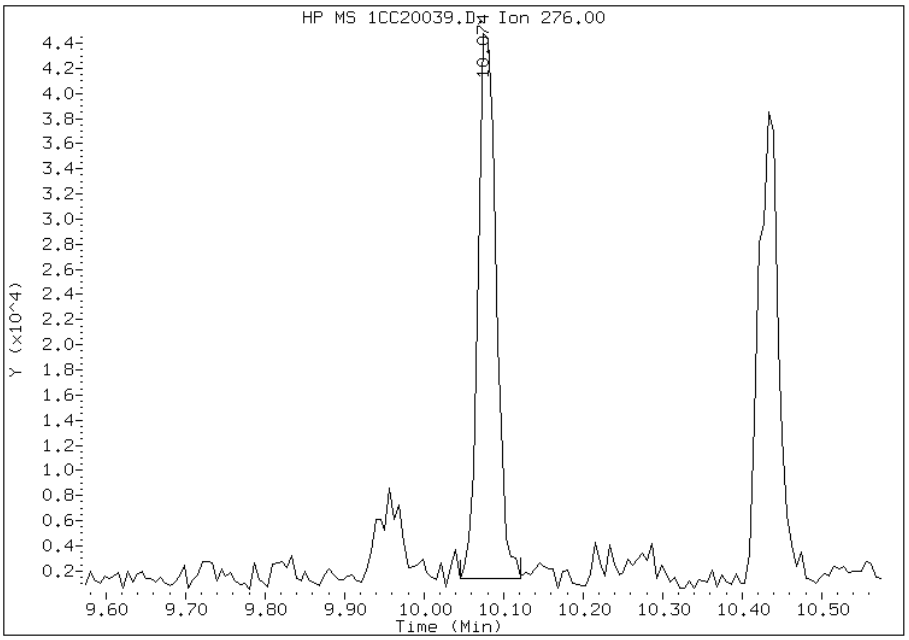
Processing Integration Results

RT: 10.07

Response: 68623

Amount: 2

Conc: 173



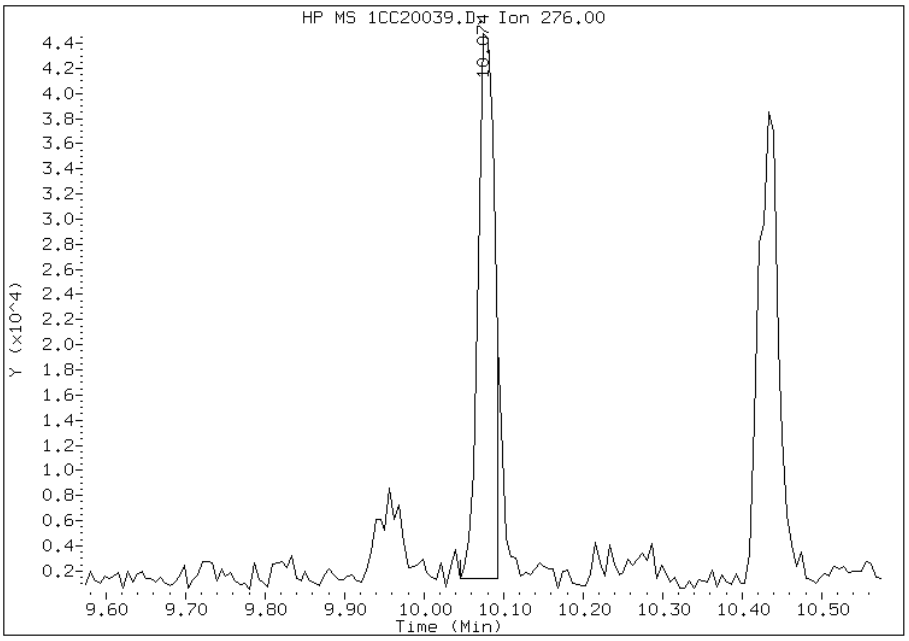
Manual Integration Results

RT: 10.07

Response: 62755

Amount: 2

Conc: 158



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0227B-CS-SP | Lab Sample ID: 680-88298-6

Matrix: Solid | Lab File ID: 1CC20040.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 11:00

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.13(g) | Date Analyzed: 03/20/2013 21:57

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

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

% Moisture: 23.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	15	J	52	6.4
120-12-7	Anthracene	30		11	5.4
56-55-3	Benzo[a]anthracene	150		10	5.0
50-32-8	Benzo[a]pyrene	170		13	6.7
205-99-2	Benzo[b]fluoranthene	280		16	7.9
191-24-2	Benzo[g,h,i]perylene	130		26	5.7
207-08-9	Benzo[k]fluoranthene	69		10	4.6
218-01-9	Chrysene	160		12	5.8
53-70-3	Dibenz(a,h)anthracene	41		26	5.3
206-44-0	Fluoranthene	250		26	5.2
86-73-7	Fluorene	17	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		26	9.1
90-12-0	1-Methylnaphthalene	52		52	5.7
91-57-6	2-Methylnaphthalene	85		52	9.1
91-20-3	Naphthalene	86		52	5.7
85-01-8	Phenanthrene	160		10	5.0
129-00-0	Pyrene	240		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20040.D
Lab Smp Id: 680-88298-A-6-A Client Smp ID: CV0227B-CS-SP
Inj Date : 20-MAR-2013 21:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-6-a
Misc Info : 680-88298-A-6-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	23.039	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	917807	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	707709	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1350754	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	171538	8.41116	722.3501
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1387018	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1350339	40.0000	
2 Naphthalene	128	3.757	3.757	(1.003)	23841	0.99778	85.6894
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	15737	0.98737	84.7950
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	8739	0.60202	51.7018
5 Acenaphthylene	152	4.745	4.745	(0.983)	5101	0.17878	15.3534
9 Fluorene	166	5.168	5.169	(1.071)	4360	0.19439	16.6945(Q)
11 Phenanthrene	178	5.792	5.792	(1.002)	70686	1.80978	155.4235
12 Anthracene	178	5.827	5.827	(1.008)	13314	0.34855	29.9333
13 Carbazole	167	5.939	5.933	(1.027)	12799	0.37693	32.3709

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	122583	2.86589	246.1226
16 Pyrene	202	6.798	6.798	(0.880)	103003	2.76339	237.3198
17 Benzo(a)anthracene	228	7.709	7.715	(0.998)	69937	1.74703	150.0344
19 Chrysene	228	7.739	7.739	(1.002)	75800	1.89206	162.4902
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	116135	3.29093	282.6251
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	28960	0.79997	68.7012(QM)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	67350	1.96484	168.7405
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.080	(1.132)	39733	1.23220	105.8216(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	15152	0.48040	41.2564
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	52305	1.55063	133.1679

QC Flag Legend

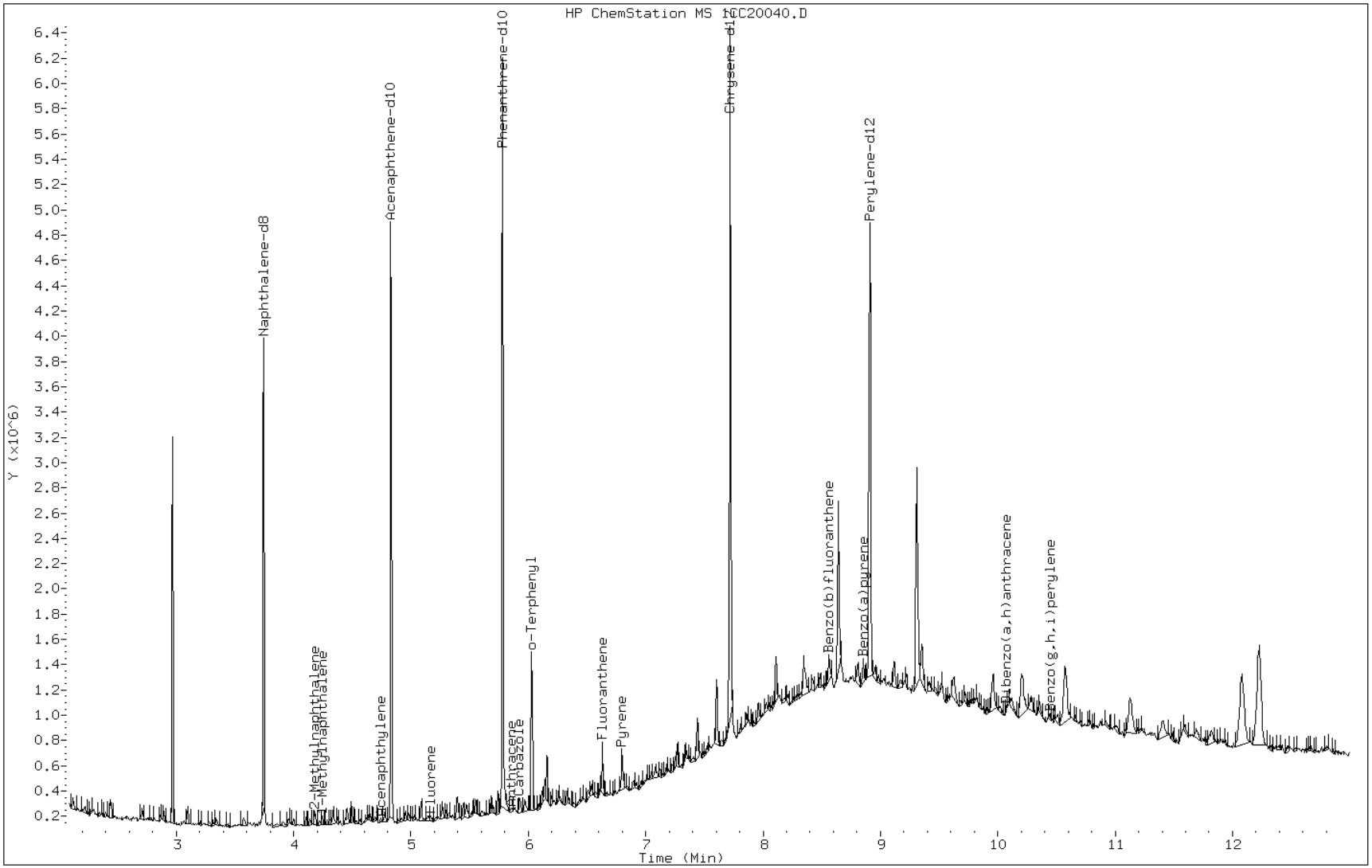
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC



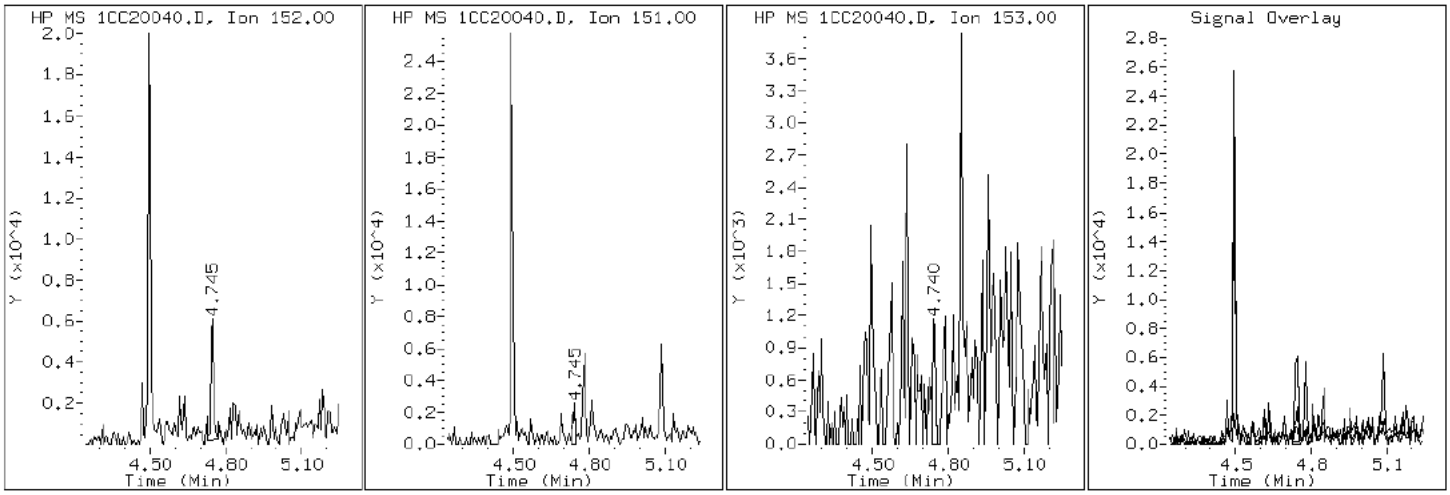
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

5 Acenaphthylene



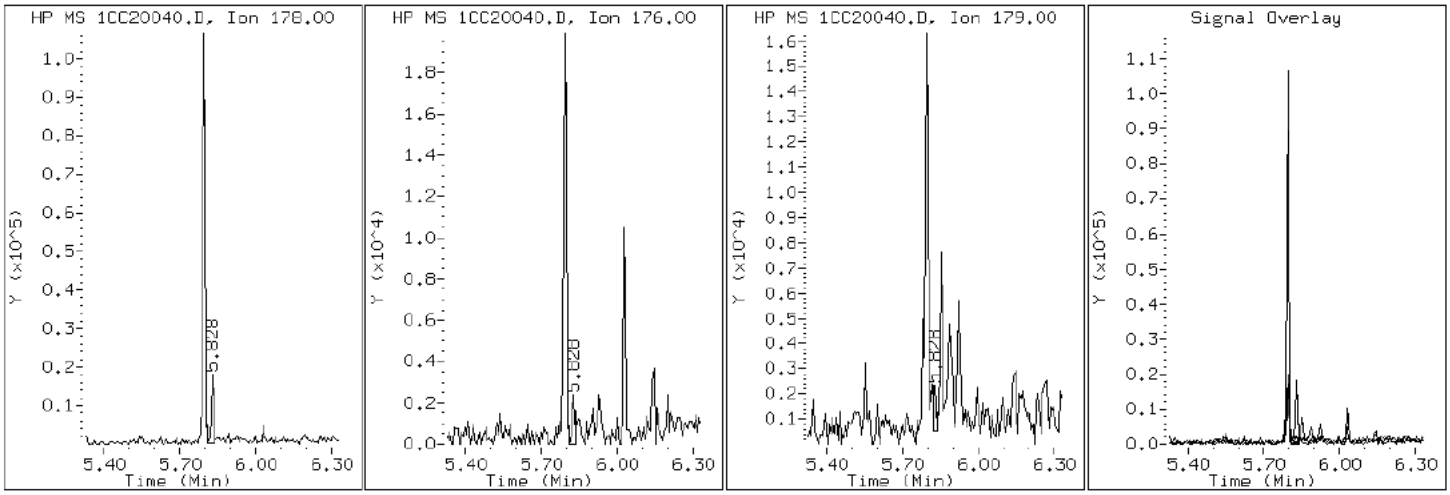
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

12 Anthracene



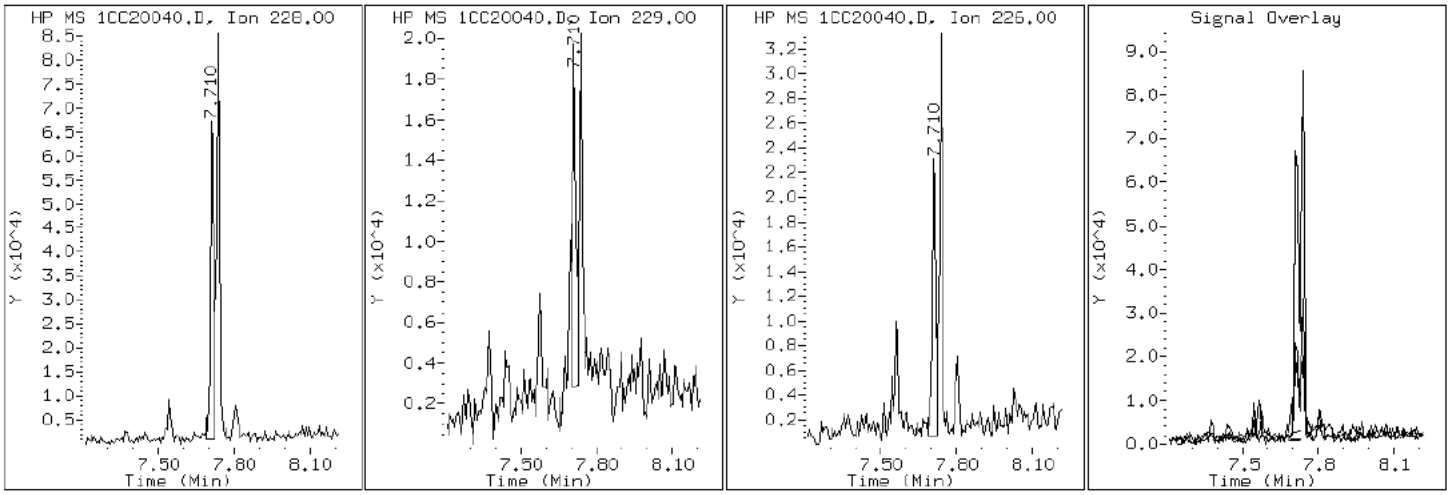
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

17 Benzo(a)anthracene



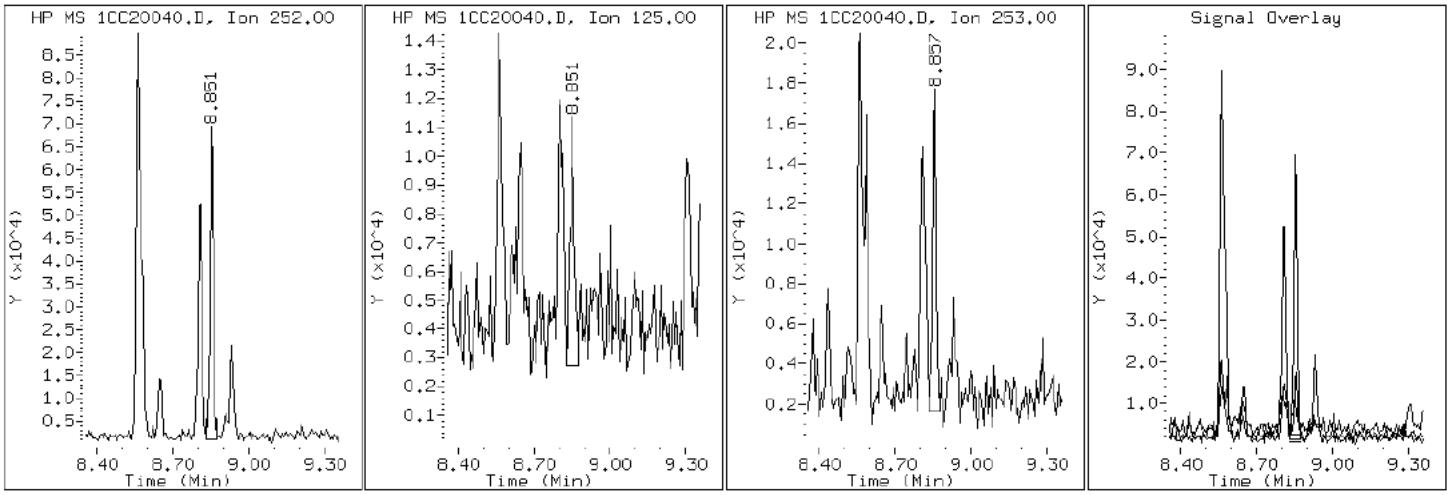
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

22 Benzo(a)pyrene



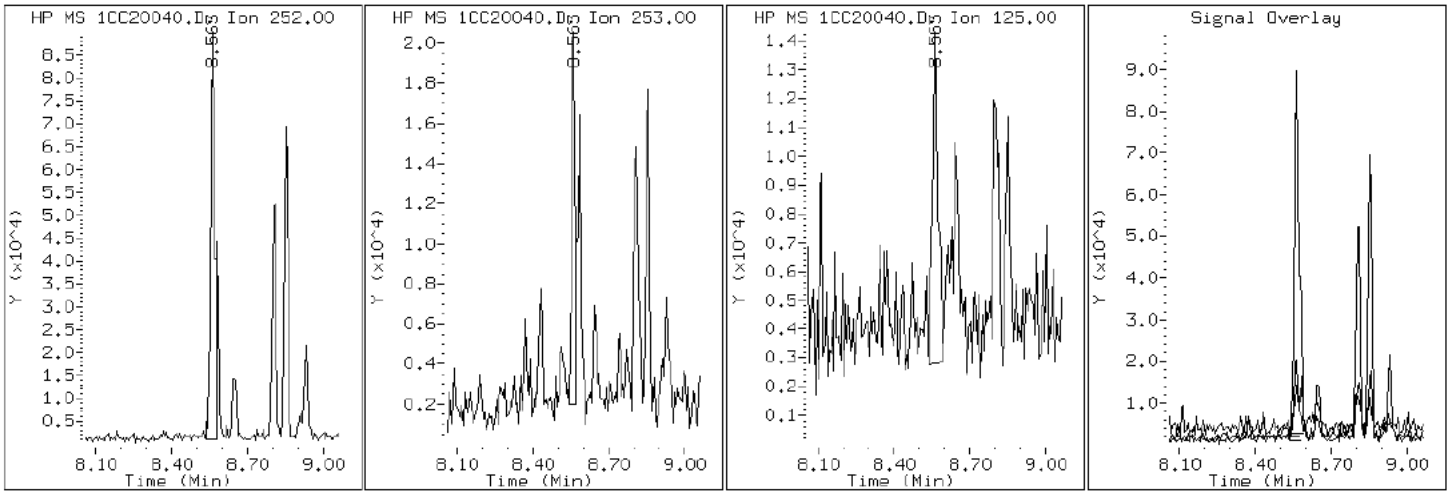
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



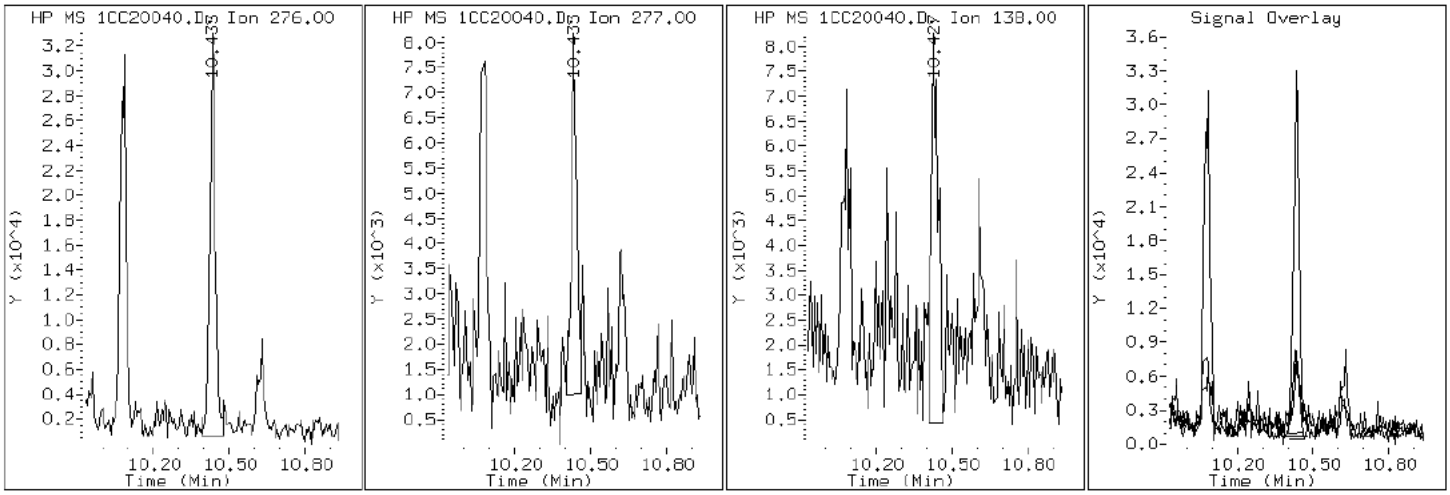
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



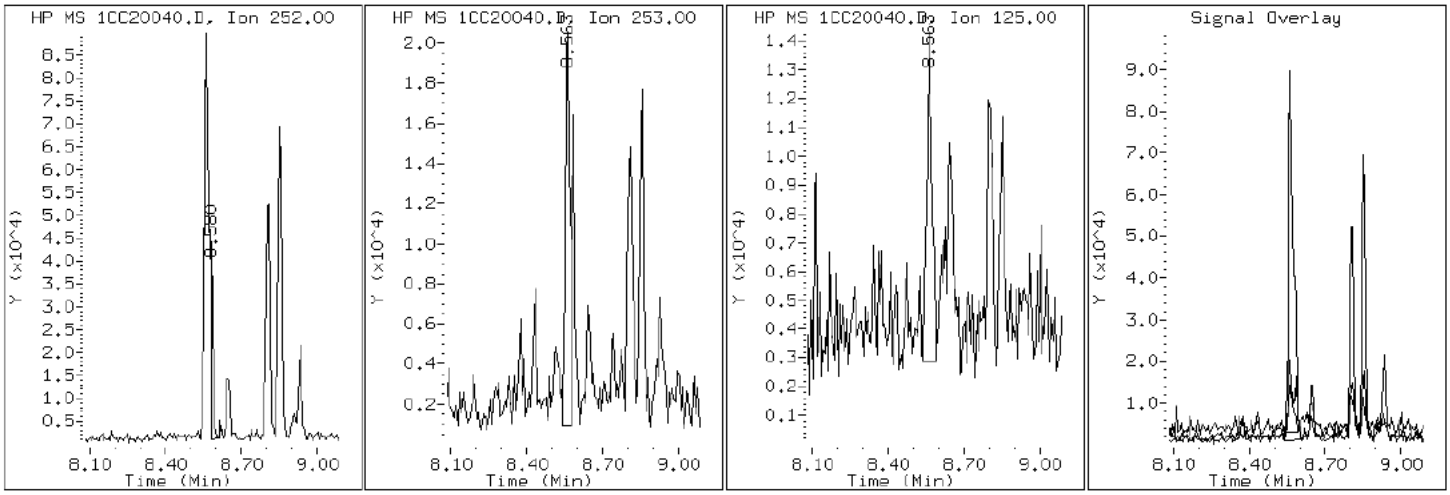
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



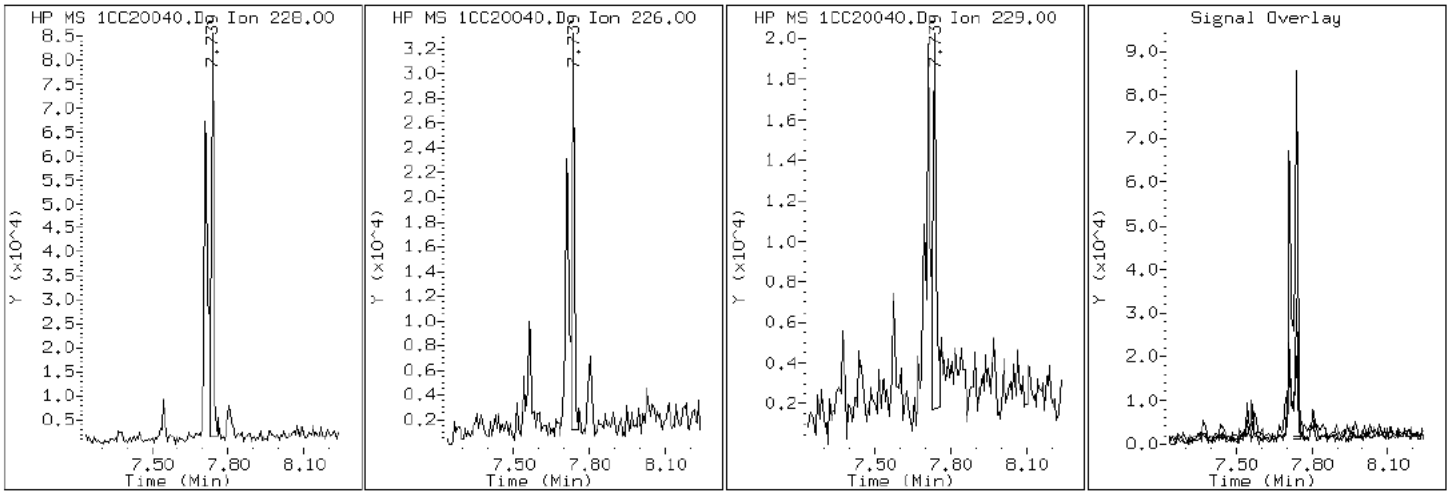
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

19 Chrysene



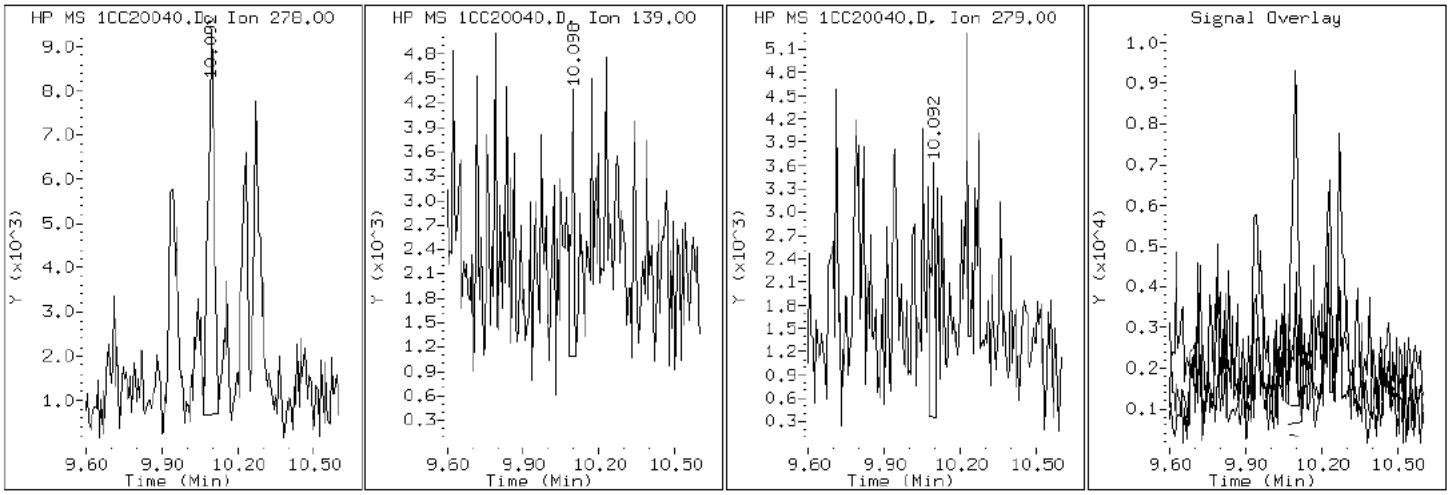
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



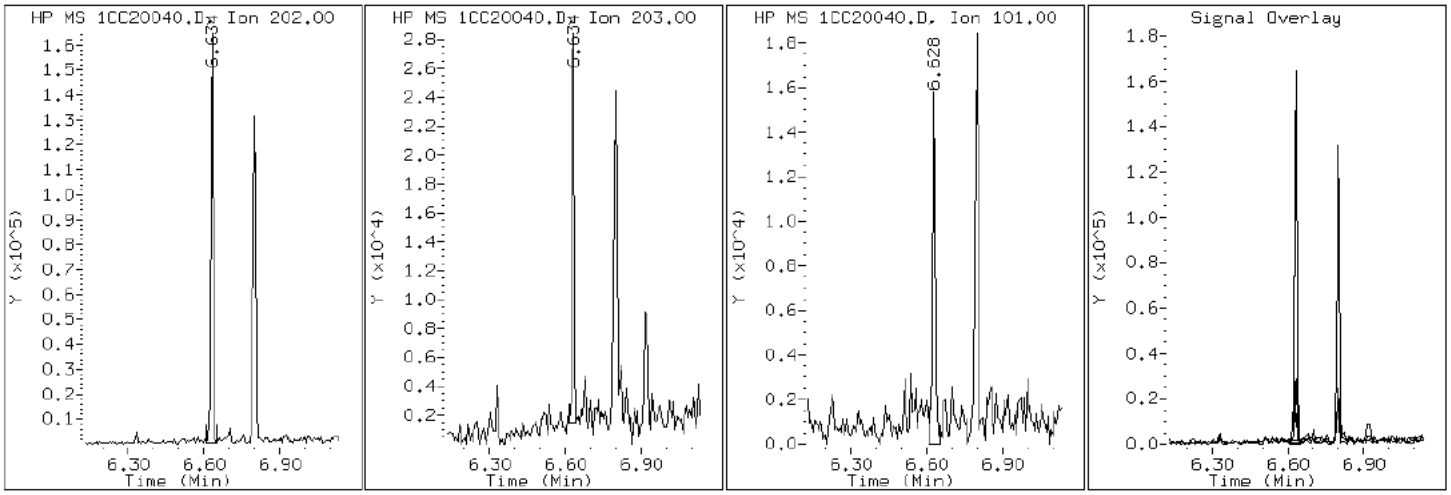
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

15 Fluoranthene



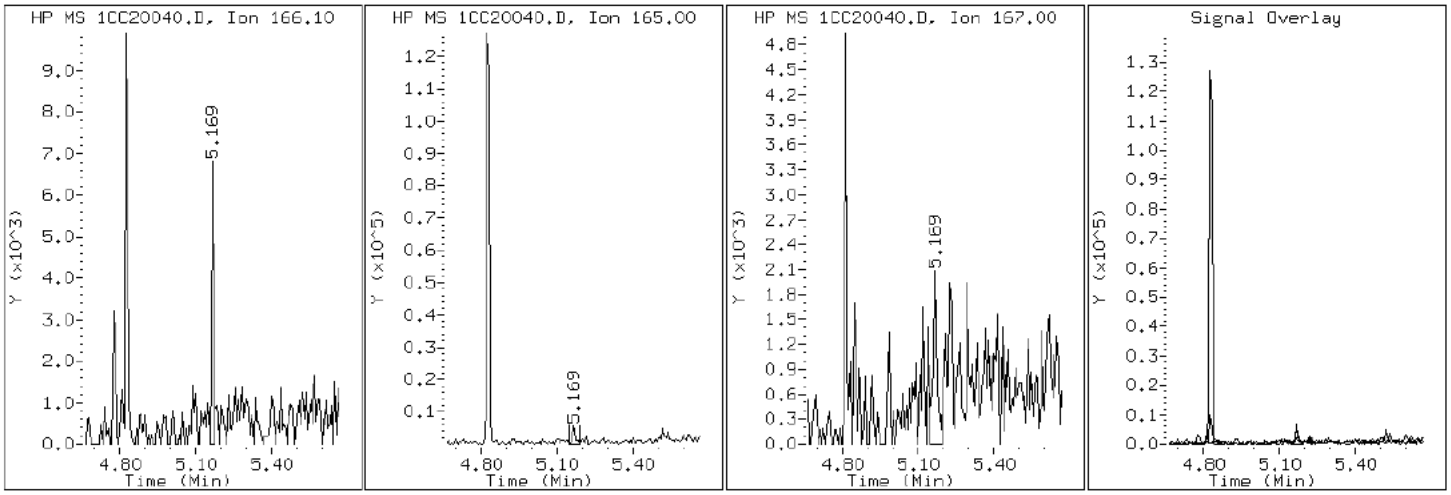
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

9 Fluorene



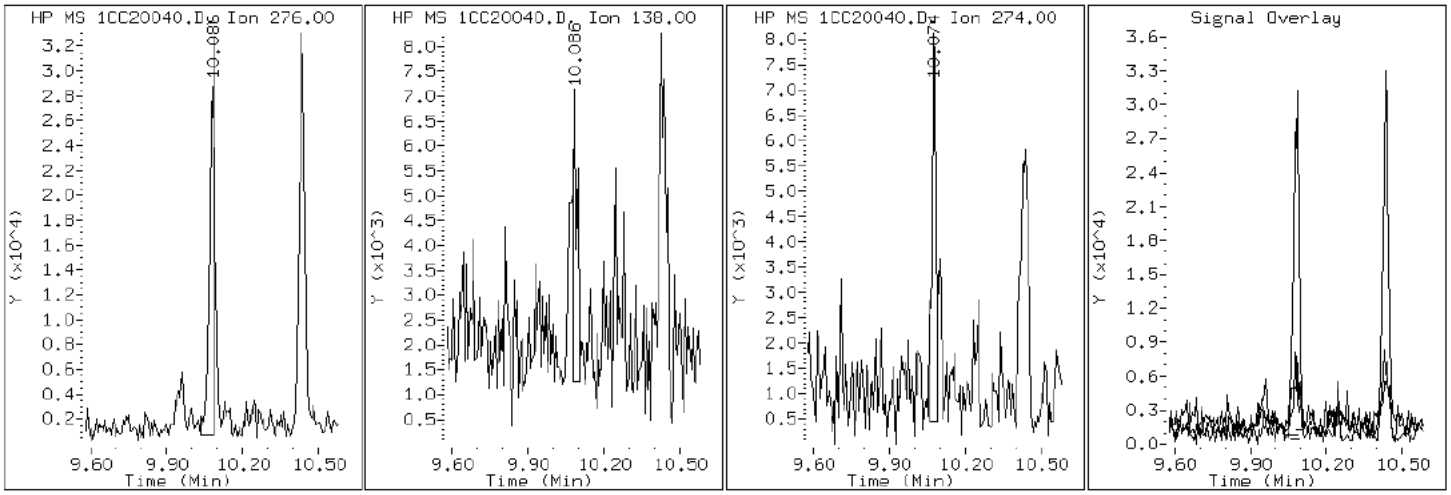
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

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



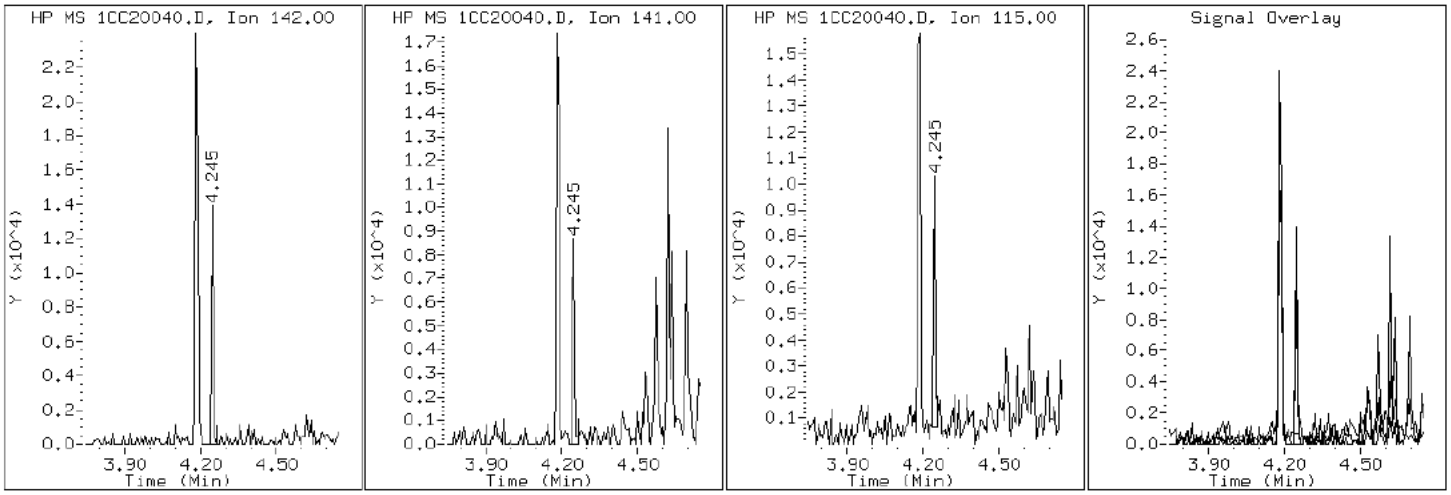
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

4 1-Methylnaphthalene



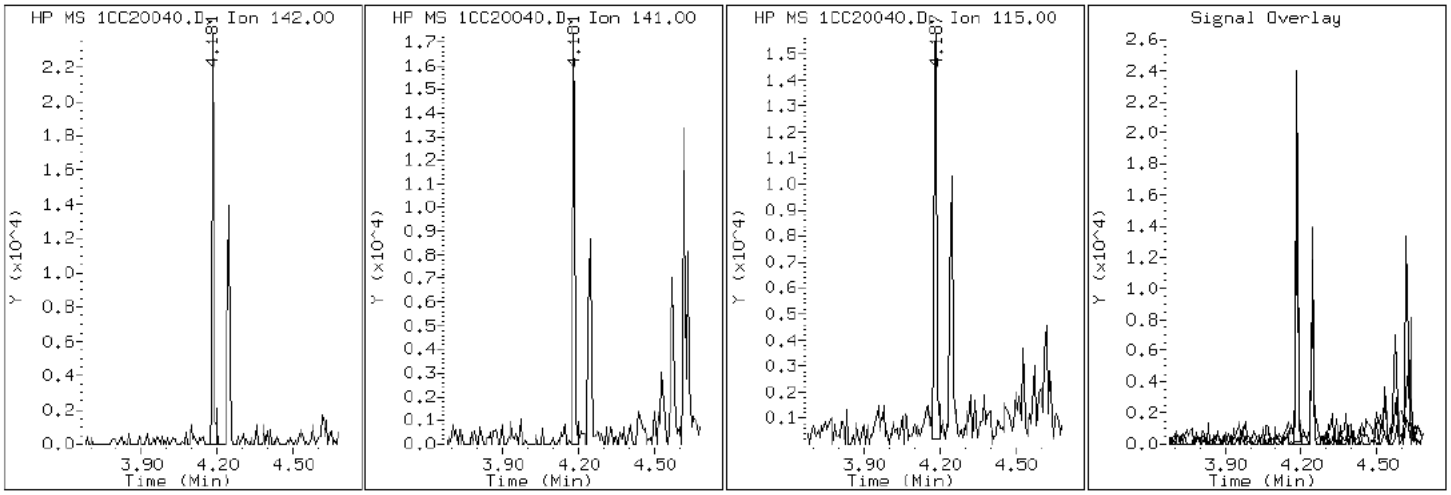
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

3 2-Methylnaphthalene



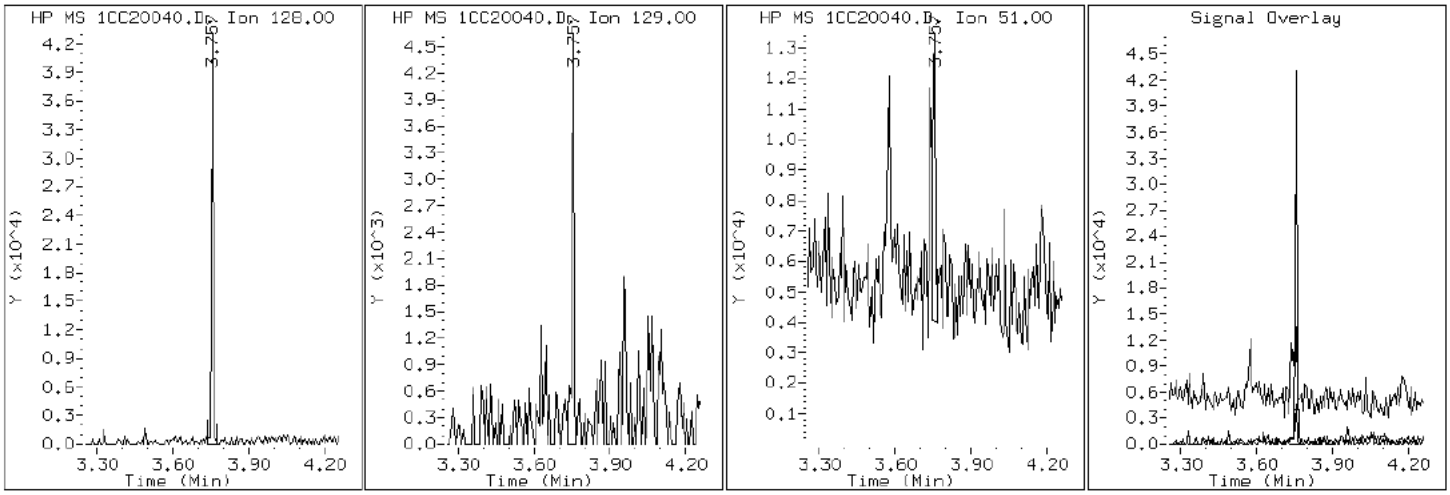
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

2 Naphthalene



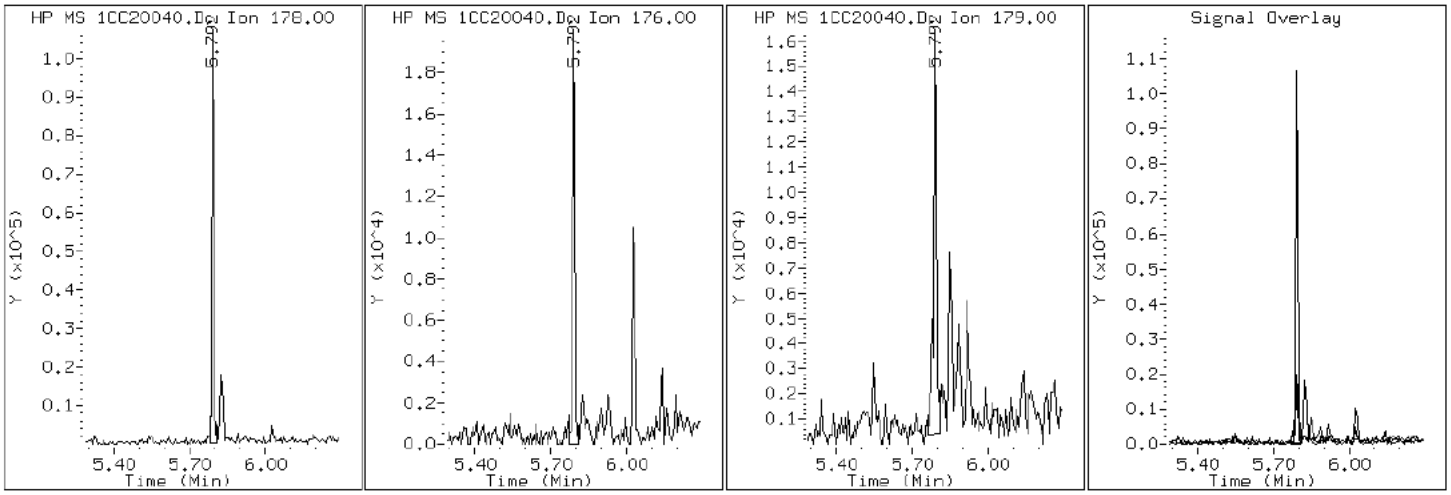
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

11 Phenanthrene



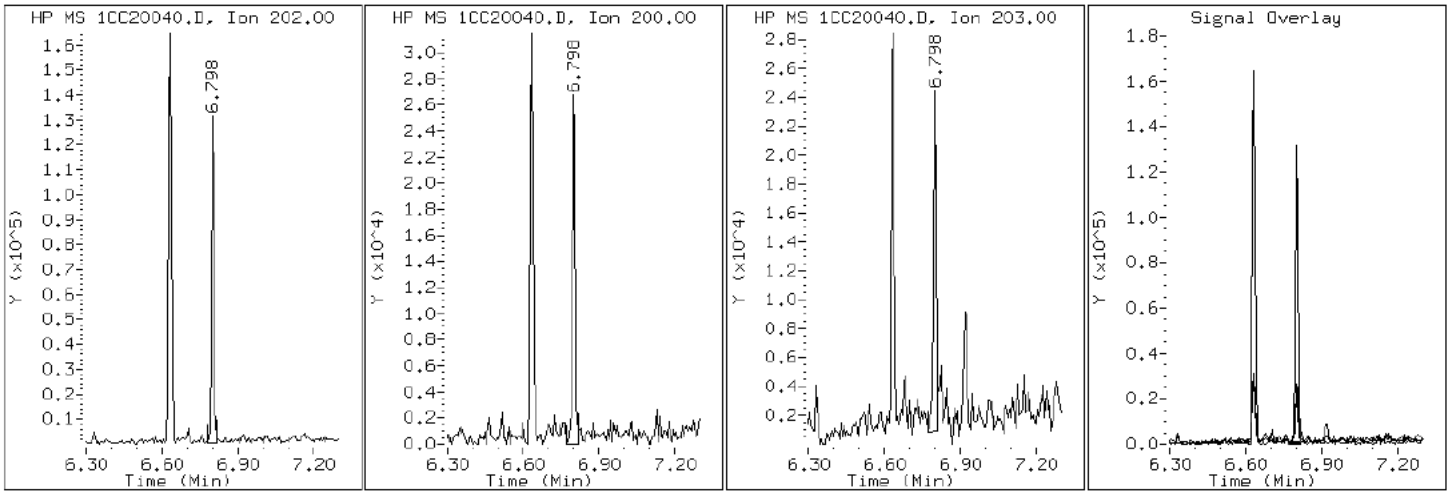
Data File: 1CC20040.D

Date: 20-MAR-2013 21:57

Client ID: CV0227B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20040.D
Inj. Date and Time: 20-MAR-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV0227B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

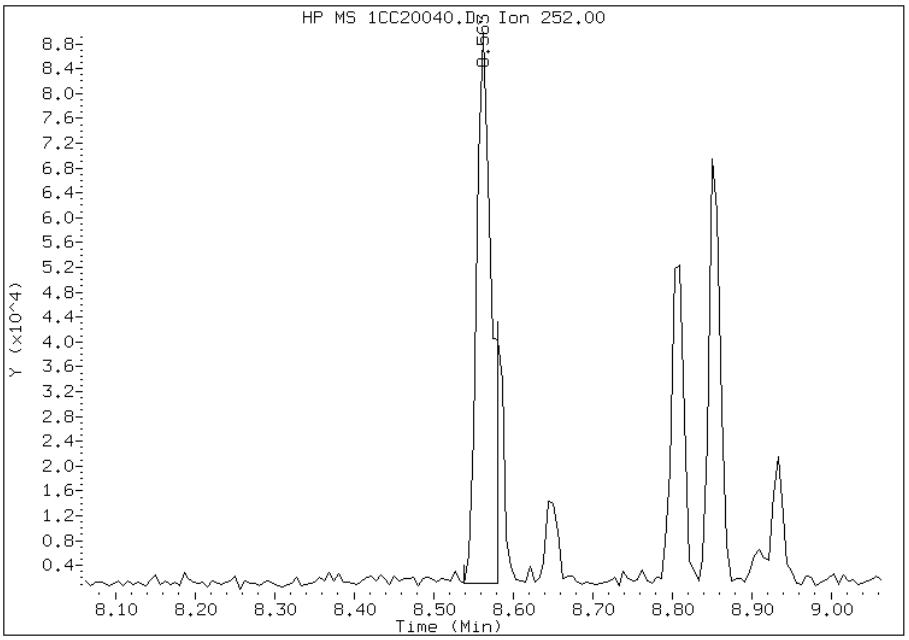
Processing Integration Results

RT: 8.56

Response: 116135

Amount: 3

Conc: 276



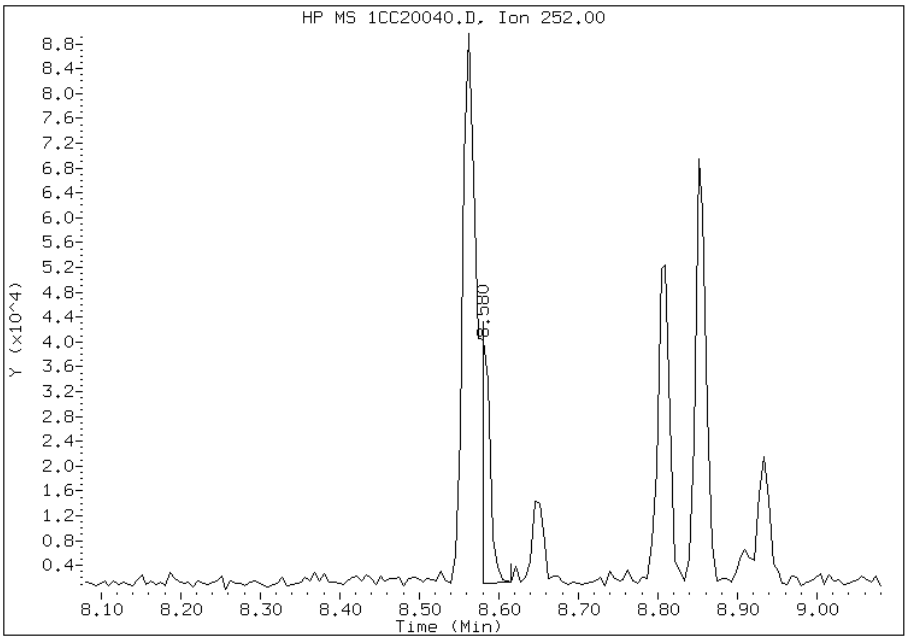
Manual Integration Results

RT: 8.58

Response: 28960

Amount: 1

Conc: 69



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:57
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CC20040.D
Inj. Date and Time: 20-MAR-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV0227B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

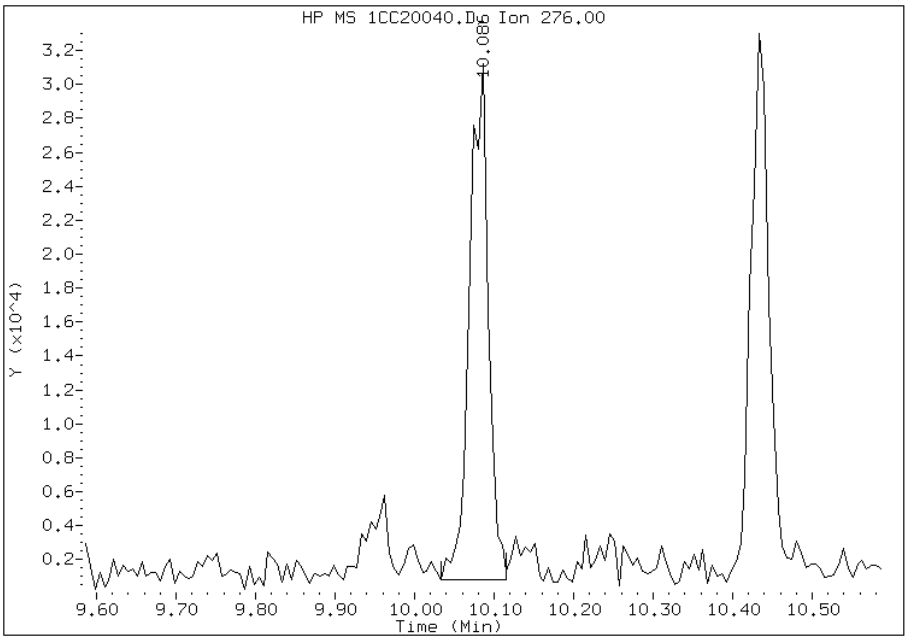
Processing Integration Results

RT: 10.09

Response: 50049

Amount: 2

Conc: 133



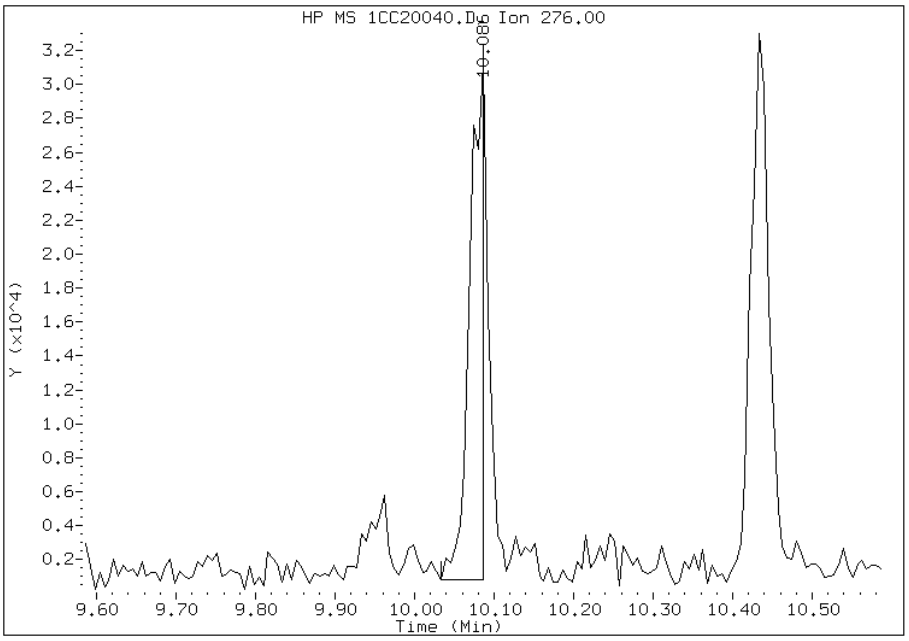
Manual Integration Results

RT: 10.09

Response: 39733

Amount: 1

Conc: 106



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0614A-CS-SP | Lab Sample ID: 680-88298-7

Matrix: Solid | Lab File ID: 1CC20041.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 08:43

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.44(g) | Date Analyzed: 03/20/2013 22:16

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

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

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

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	55	J	200	25
120-12-7	Anthracene	71		43	21
56-55-3	Benzo[a]anthracene	440		41	20
50-32-8	Benzo[a]pyrene	410		53	26
205-99-2	Benzo[b]fluoranthene	580		62	31
191-24-2	Benzo[g,h,i]perylene	260		100	22
207-08-9	Benzo[k]fluoranthene	440		41	18
218-01-9	Chrysene	500		46	23
53-70-3	Dibenz(a,h)anthracene	110		100	21
206-44-0	Fluoranthene	650		100	20
86-73-7	Fluorene	28	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	230		100	36
90-12-0	1-Methylnaphthalene	180	J	200	22
91-57-6	2-Methylnaphthalene	260		200	36
91-20-3	Naphthalene	180	J	200	22
85-01-8	Phenanthrene	520		41	20
129-00-0	Pyrene	640		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20041.D
Lab Smp Id: 680-88298-A-7-A Client Smp ID: CV0614A-CS-SP
Inj Date : 20-MAR-2013 22:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-7-a
Misc Info : 680-88298-A-7-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 41
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	23.729	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.745	3.745	(1.000)	920932	40.0000	
*	6 Acenaphthene-d10	164	4.833	4.827	(1.000)	741148	40.0000	
*	10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1339806	40.0000	
$	14 o-Terphenyl	230	6.033	6.027	(1.044)	32242	1.59387	541.3826
*	18 Chrysene-d12	240	7.721	7.721	(1.000)	1420334	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	1344754	40.0000	
	2 Naphthalene	128	3.757	3.757	(1.003)	12742	0.53146	180.5198
	3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	12013	0.75116	255.1434
	4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	7525	0.51663	175.4830
	5 Acenaphthylene	152	4.745	4.745	(0.982)	4811	0.16101	54.6884
	9 Fluorene	166	5.168	5.169	(1.069)	1905	0.08110	27.5482(Q)
	11 Phenanthrene	178	5.792	5.792	(1.002)	58786	1.51740	515.4092
	12 Anthracene	178	5.827	5.827	(1.008)	7934	0.20940	71.1269
	13 Carbazole	167	5.939	5.933	(1.027)	8751	0.25982	88.2535

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	81287	1.91595	650.7847
16 Pyrene	202	6.798	6.798	(0.880)	71907	1.88389	639.8933
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	53662	1.30903	444.6344
19 Chrysene	228	7.739	7.739	(1.002)	60175	1.46681	498.2258
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	59933	1.70538	579.2608(M)
21 Benzo(k)fluoranthene	252	8.568	8.586	(0.962)	46662	1.29431	439.6325(M)
22 Benzo(a)pyrene	252	8.850	8.857	(0.993)	41440	1.21398	412.3463
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	21451	0.66800	226.8982(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	10151	0.32318	109.7718
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	25870	0.77012	261.5853

QC Flag Legend

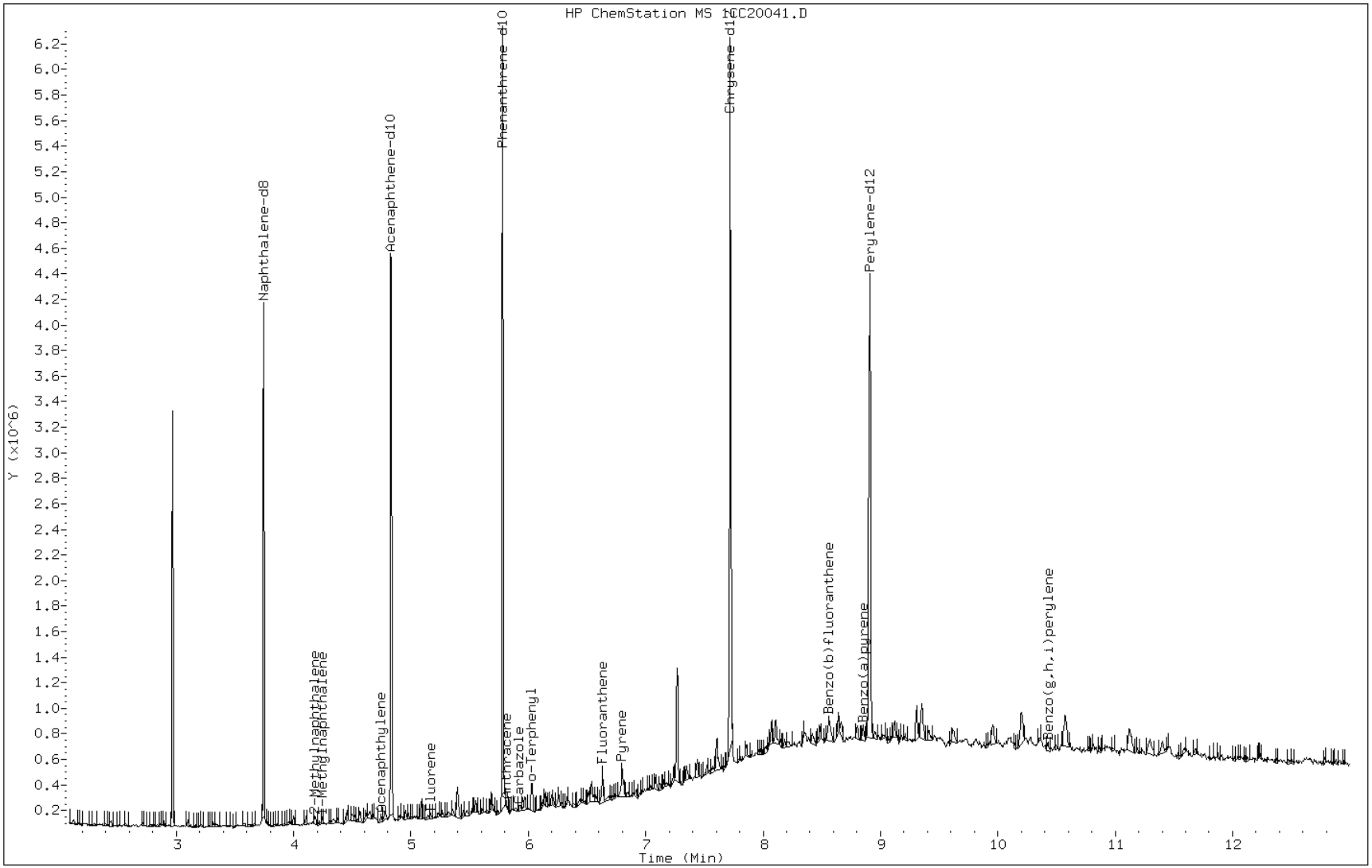
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC



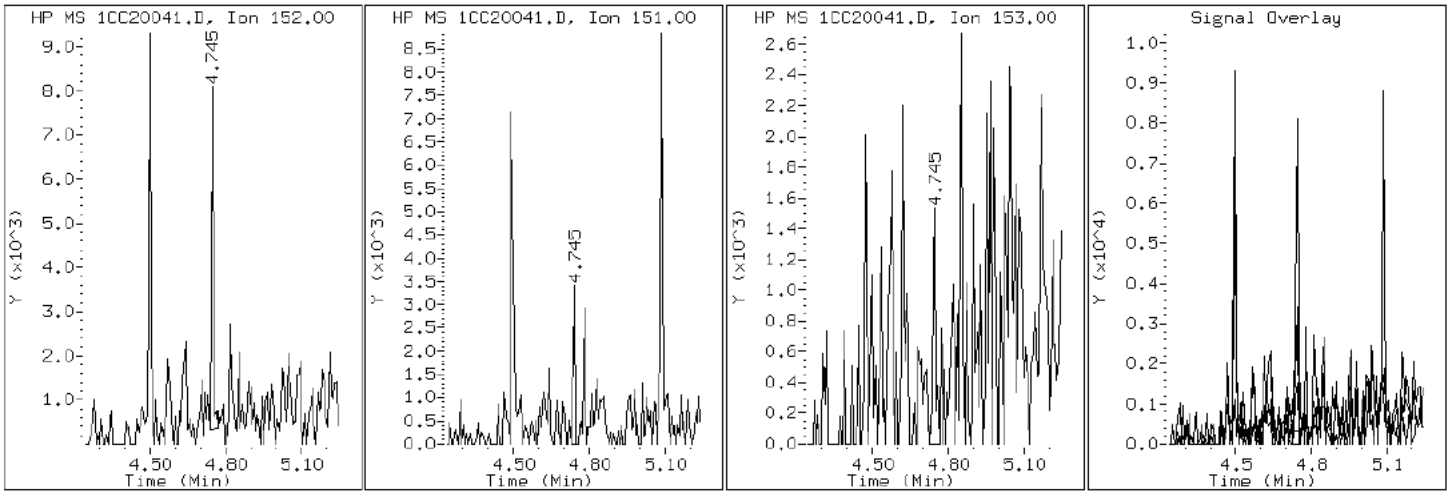
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

5 Acenaphthylene



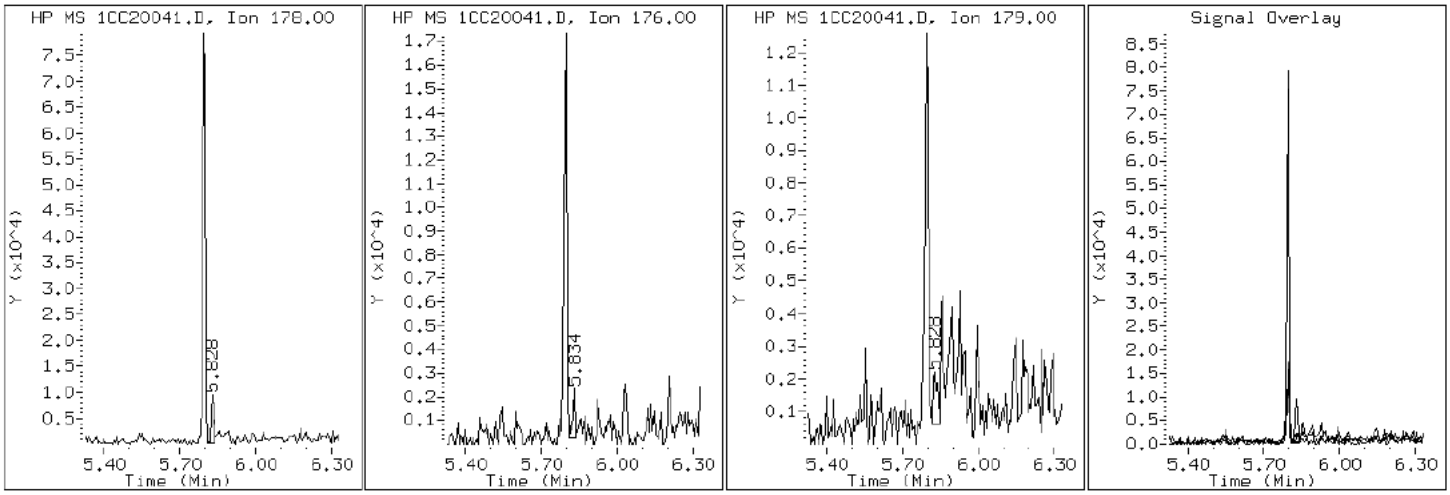
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

12 Anthracene



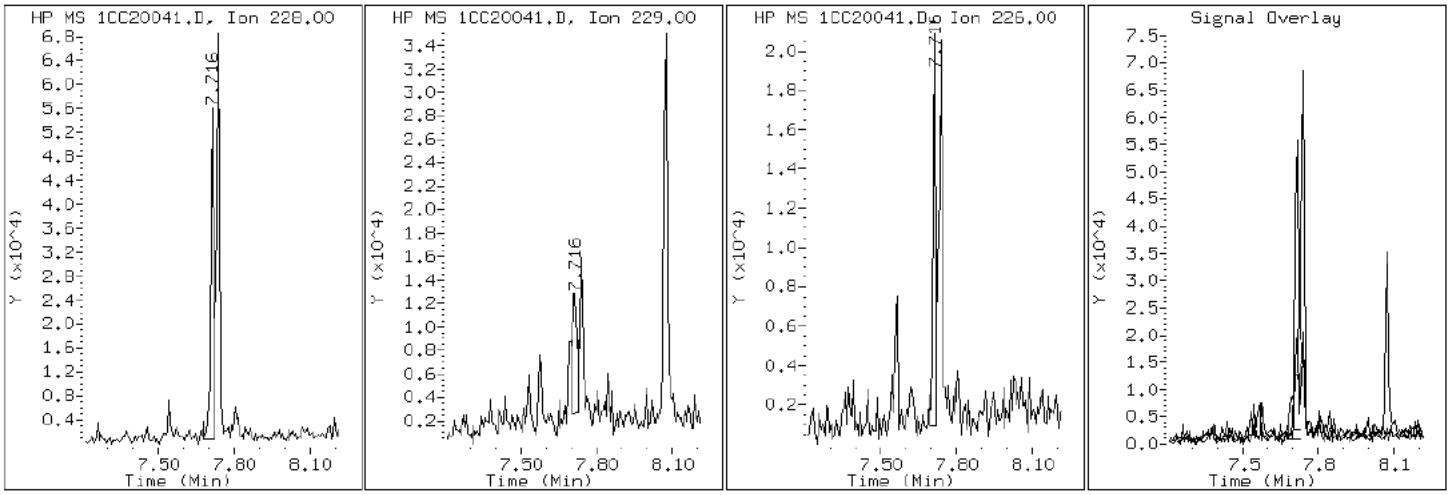
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

17 Benzo(a)anthracene



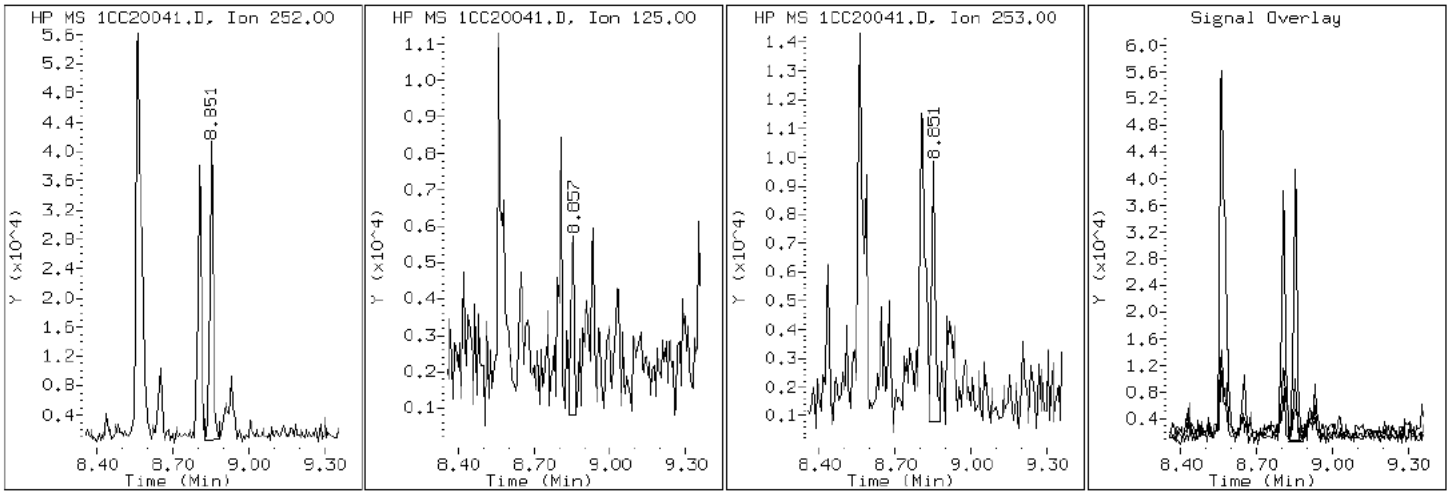
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

22 Benzo(a)pyrene



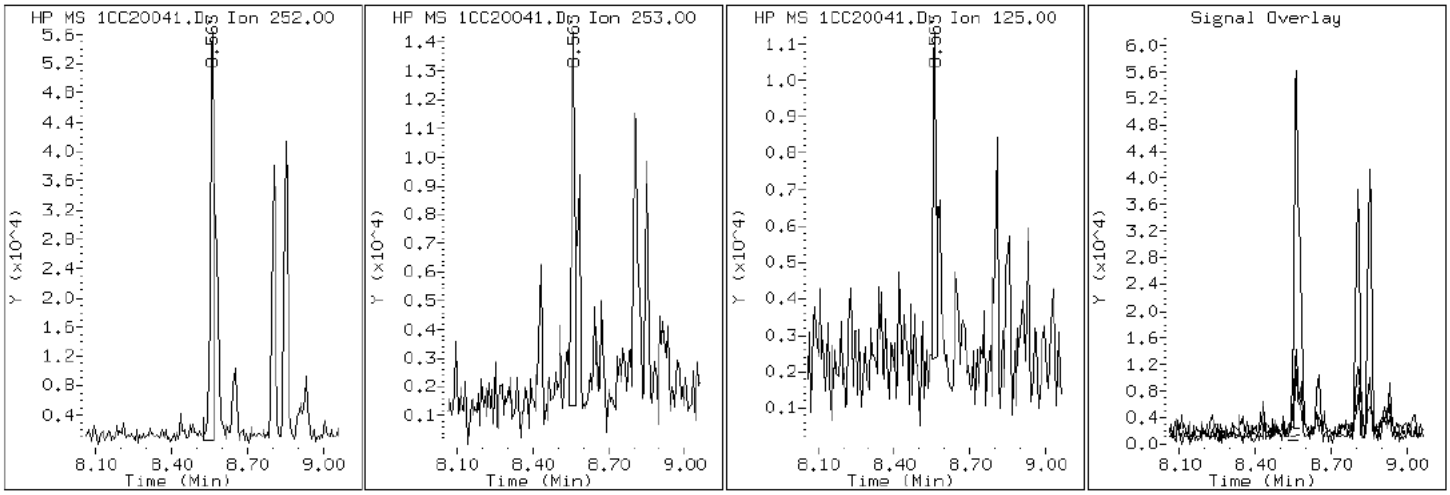
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



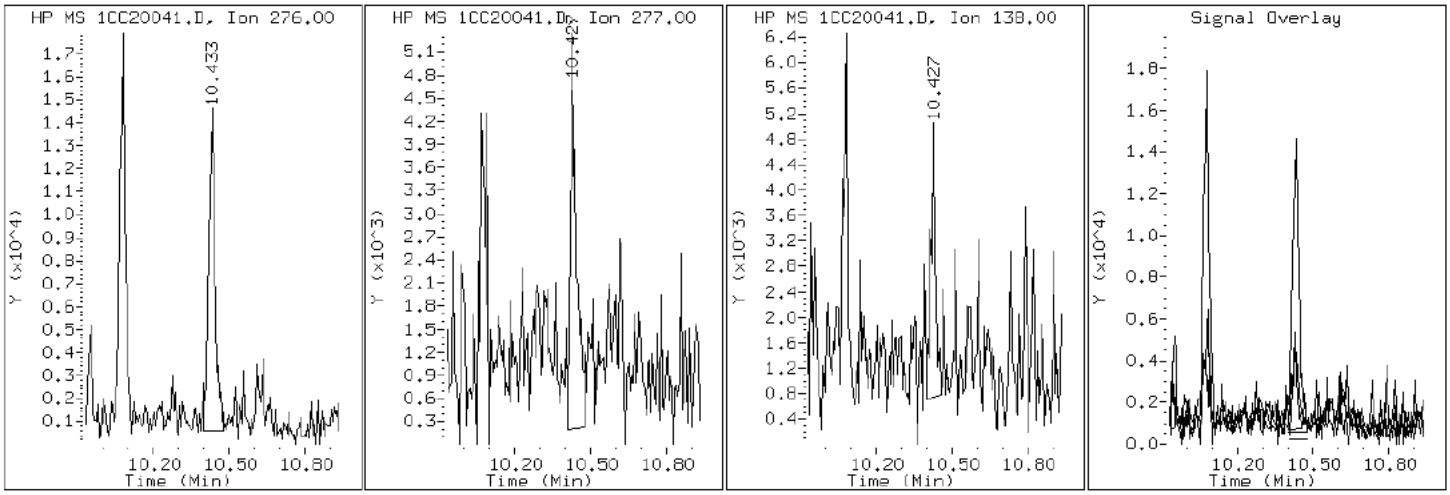
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



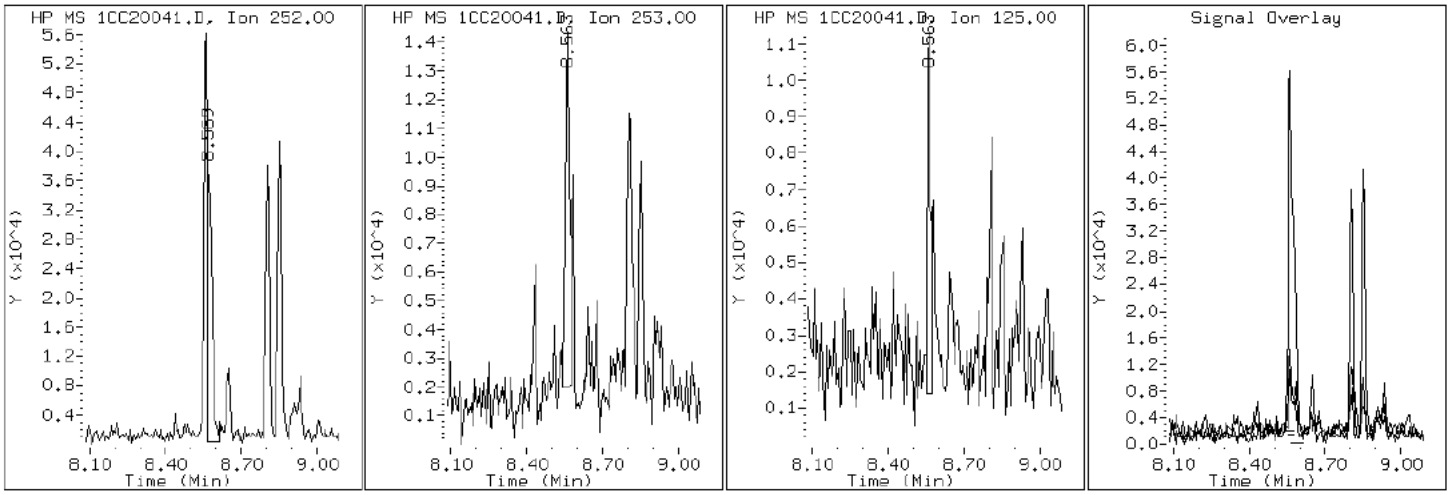
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



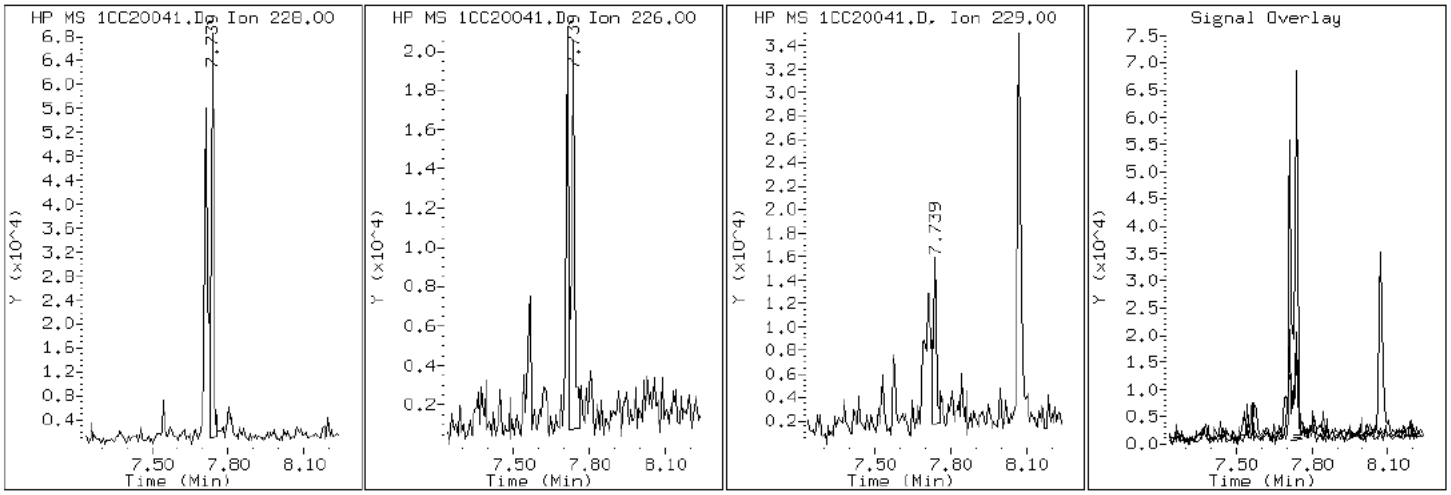
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

19 Chrysene



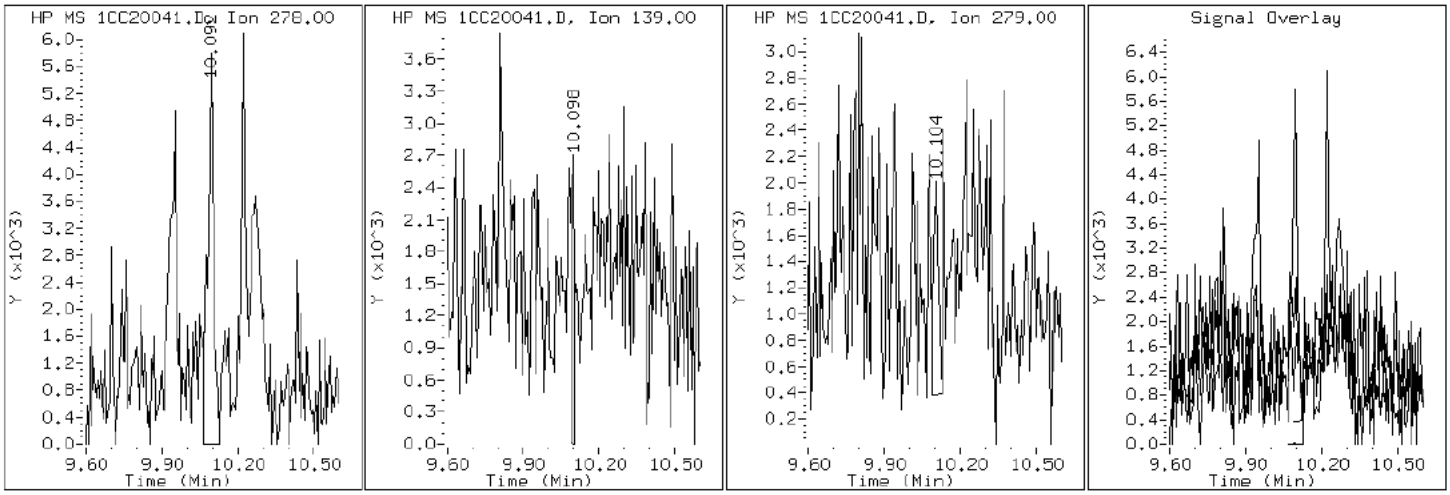
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



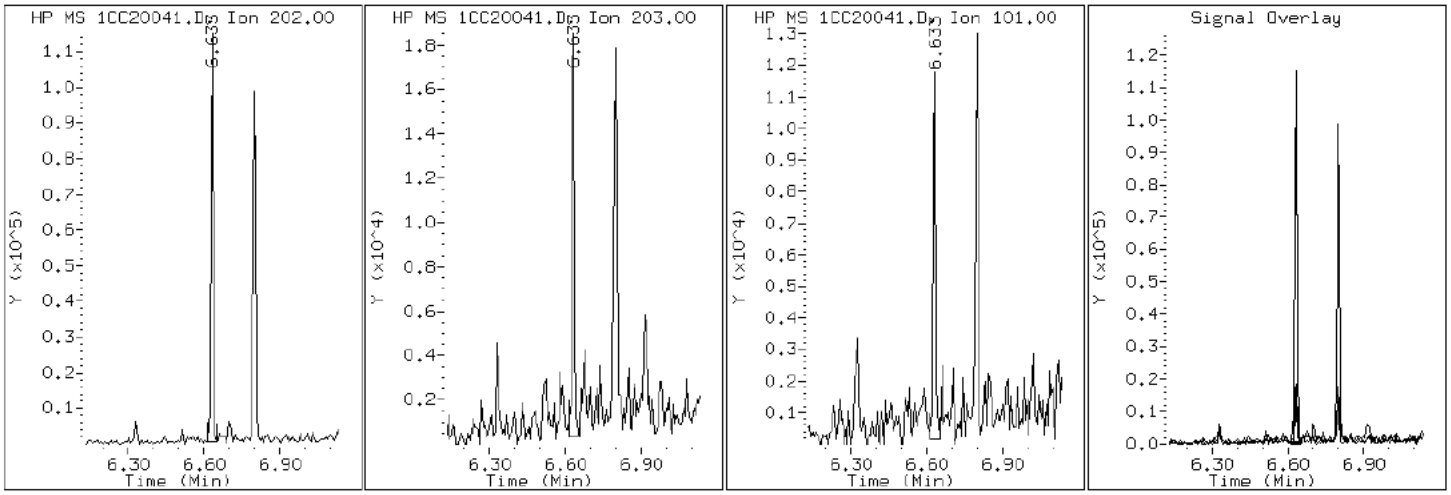
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

15 Fluoranthene



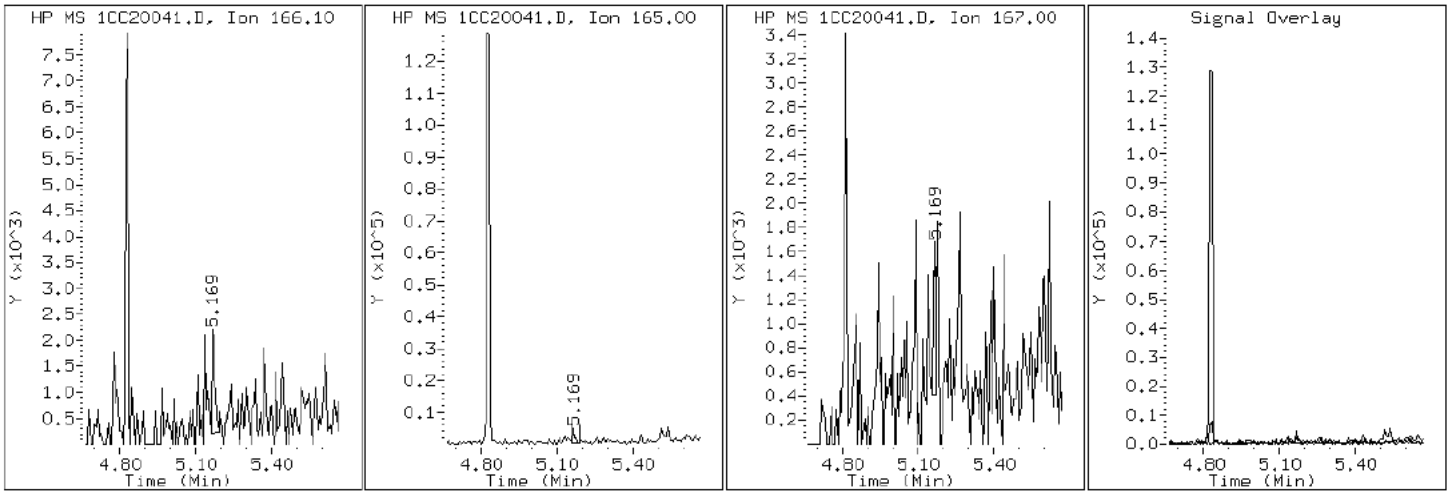
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

9 Fluorene



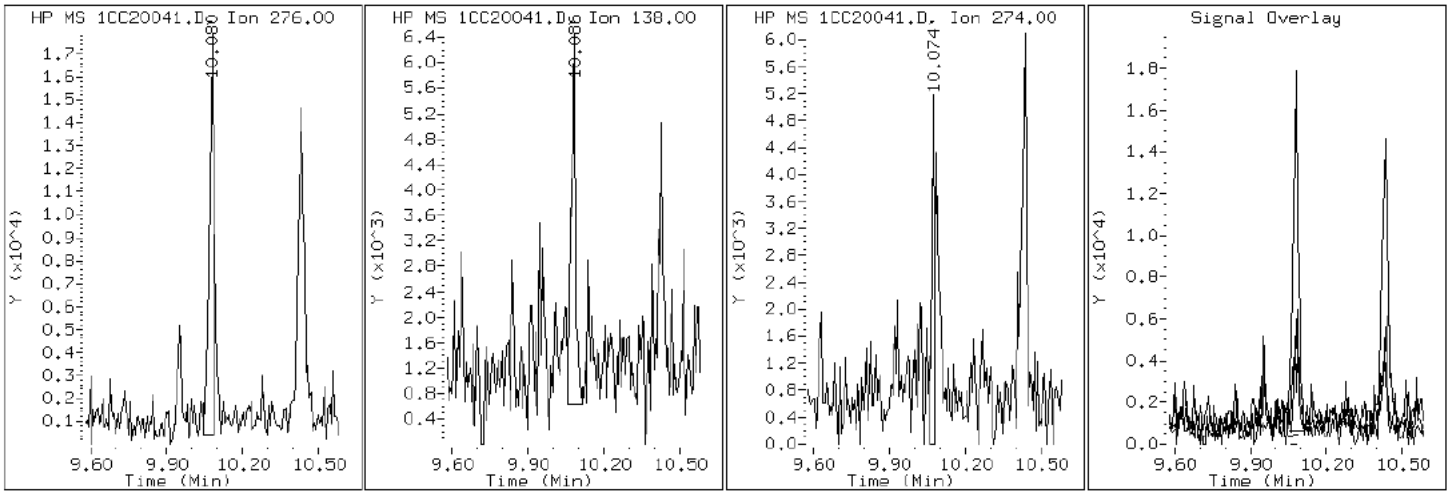
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

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



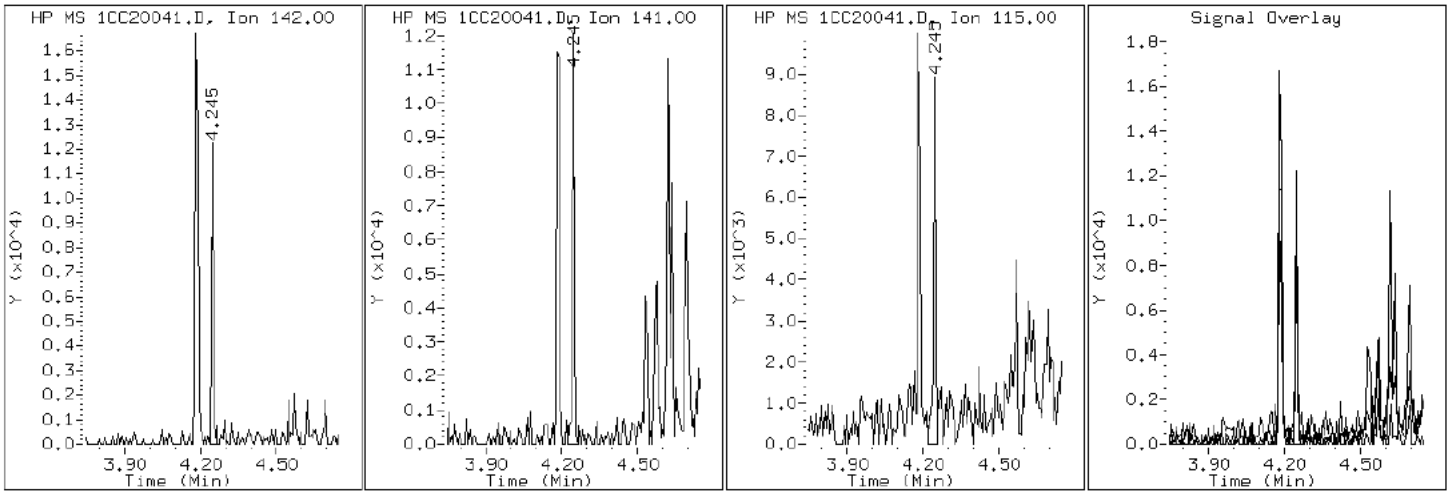
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

4 1-Methylnaphthalene



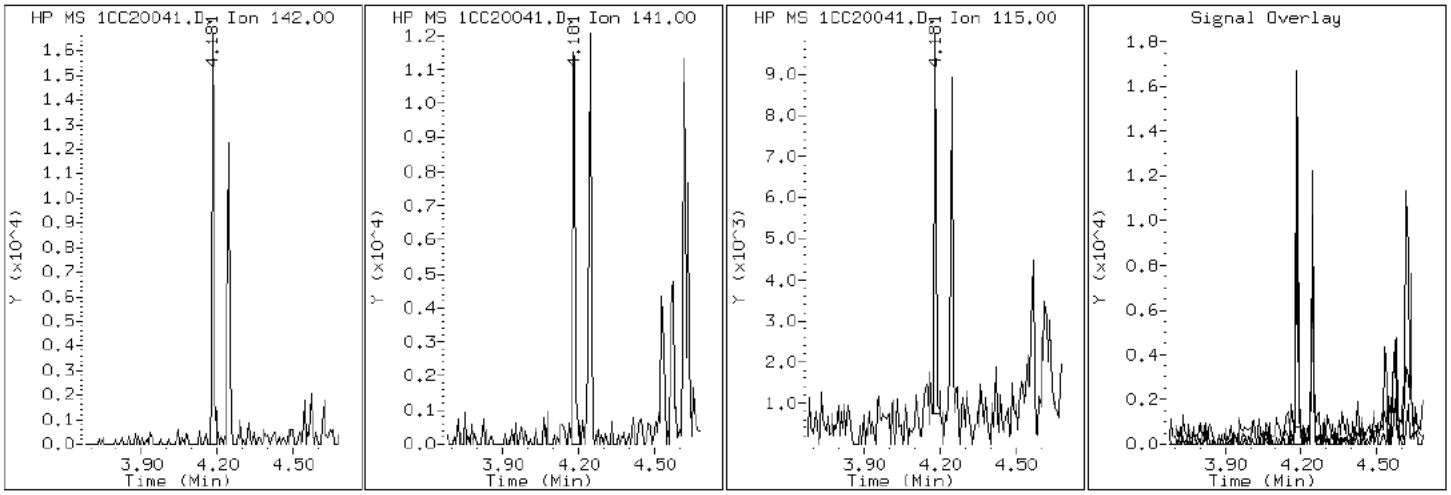
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

3 2-Methylnaphthalene



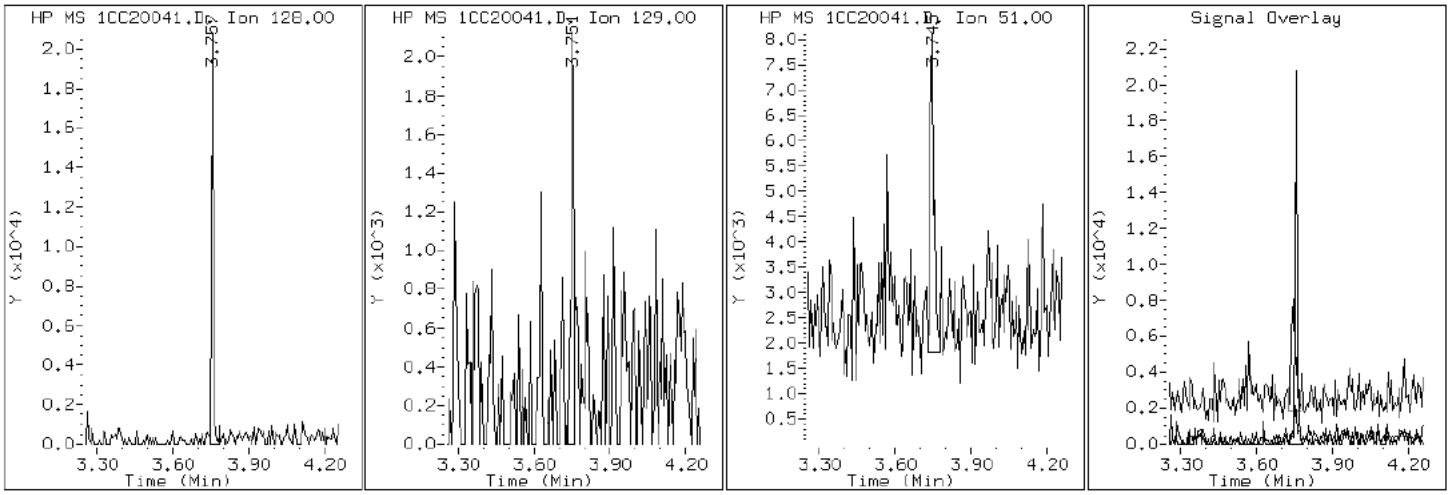
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

2 Naphthalene



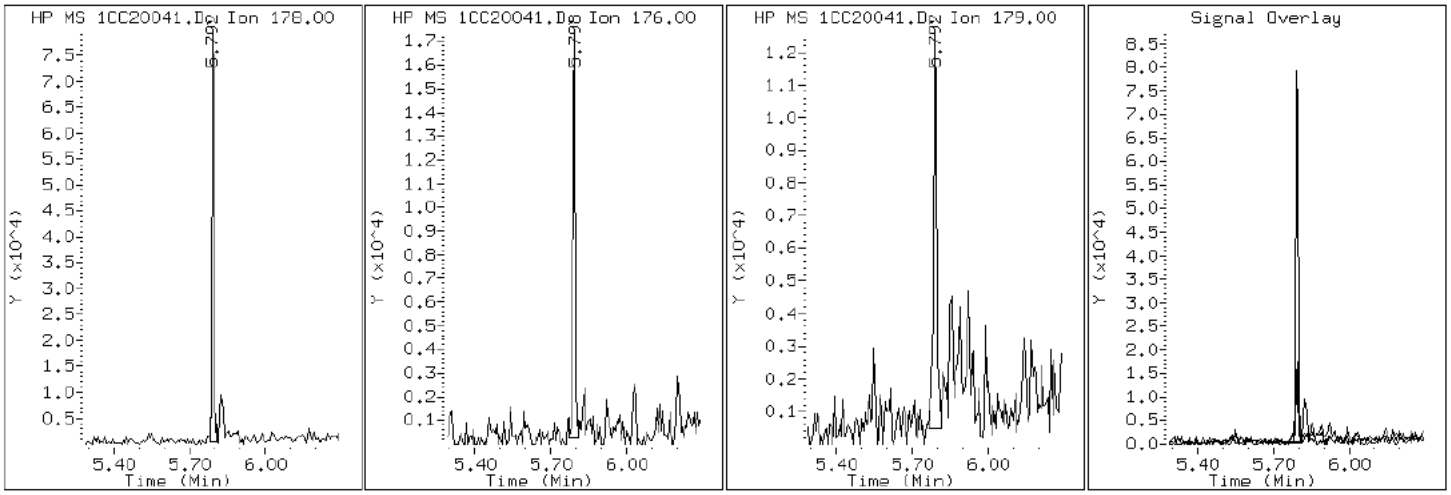
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

11 Phenanthrene



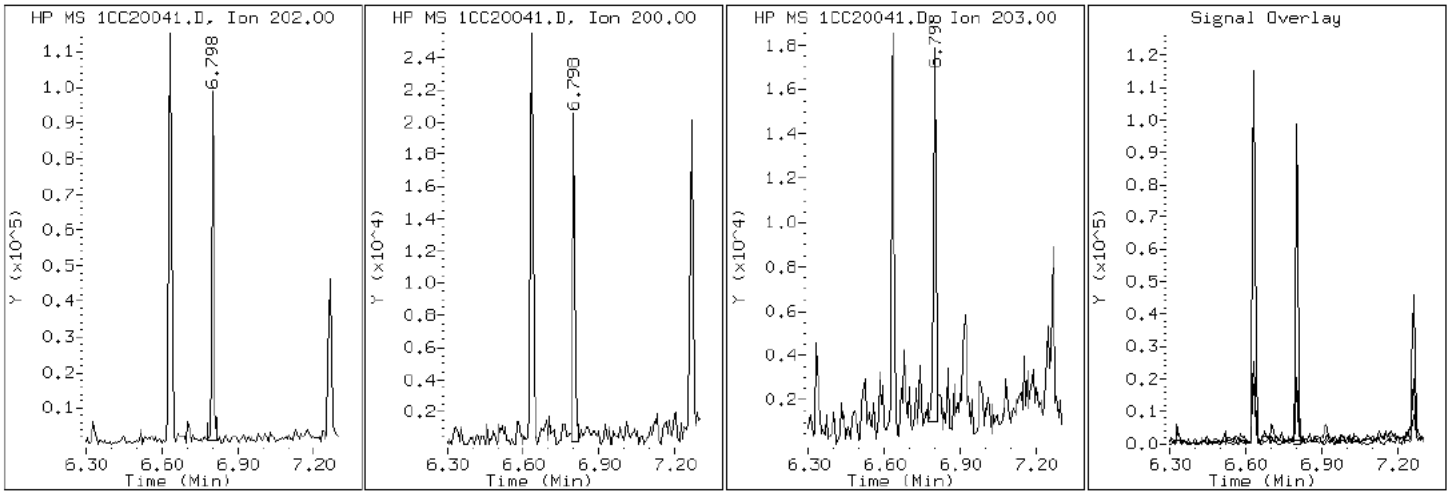
Data File: 1CC20041.D

Date: 20-MAR-2013 22:16

Client ID: CV0614A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88298-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC20041.D
Inj. Date and Time: 20-MAR-2013 22:16
Instrument ID: BSMC5973.i
Client ID: CV0614A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

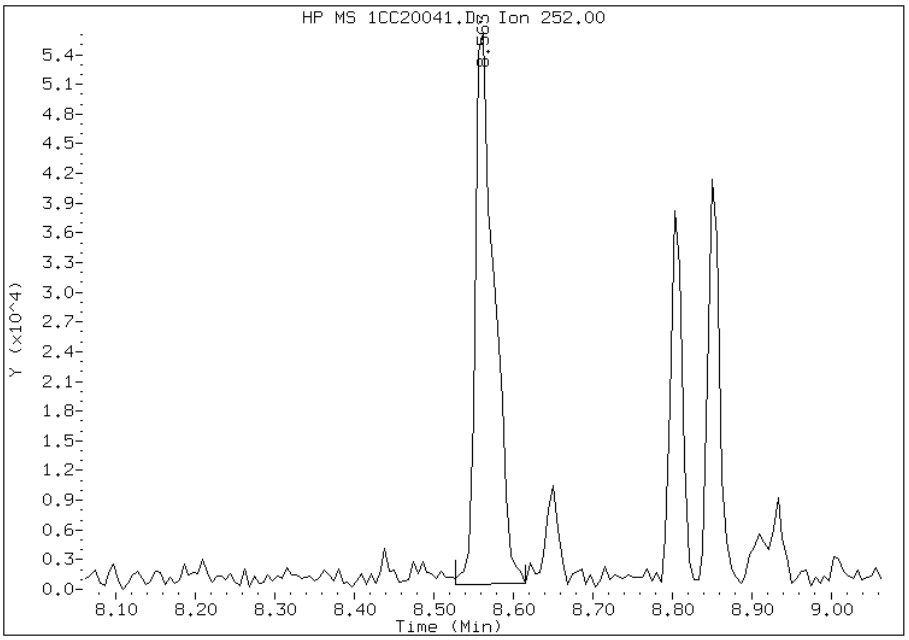
Processing Integration Results

RT: 8.56

Response: 92150

Amount: 3

Conc: 891



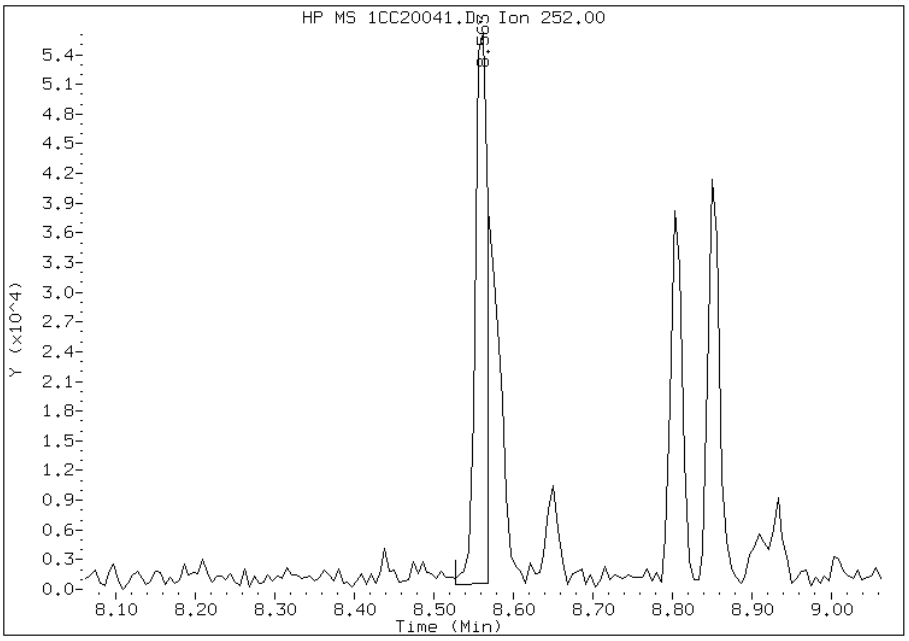
Manual Integration Results

RT: 8.56

Response: 59933

Amount: 2

Conc: 579



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20041.D
Inj. Date and Time: 20-MAR-2013 22:16
Instrument ID: BSMC5973.i
Client ID: CV0614A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

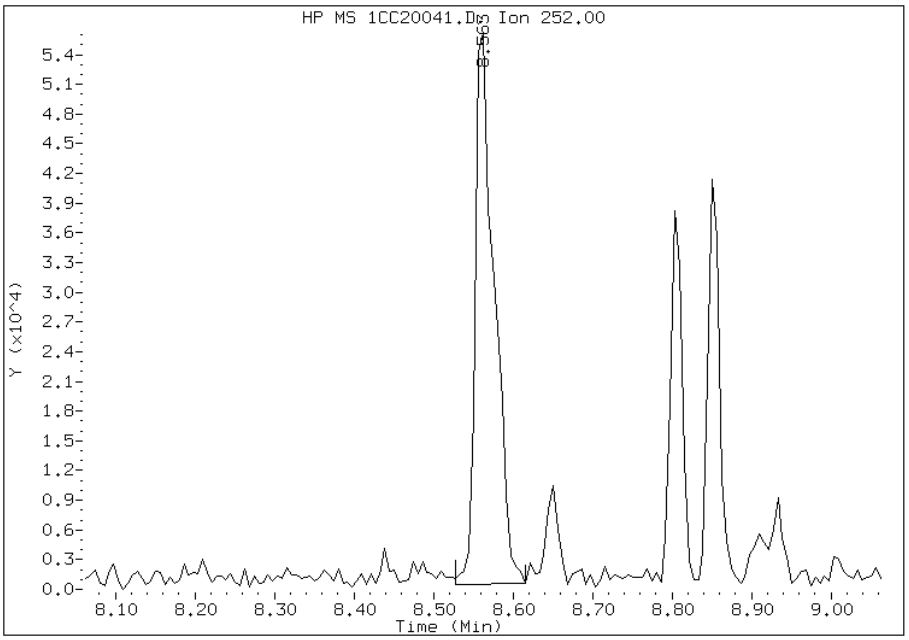
Processing Integration Results

RT: 8.56

Response: 92167

Amount: 3

Conc: 868



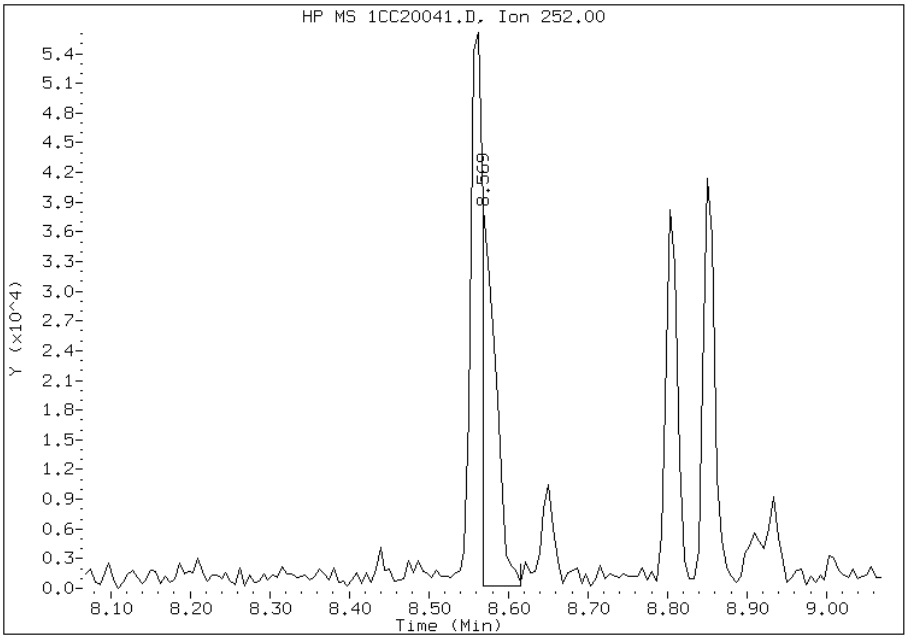
Manual Integration Results

RT: 8.57

Response: 46662

Amount: 1

Conc: 440



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20041.D
Inj. Date and Time: 20-MAR-2013 22:16
Instrument ID: BSMC5973.i
Client ID: CV0614A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

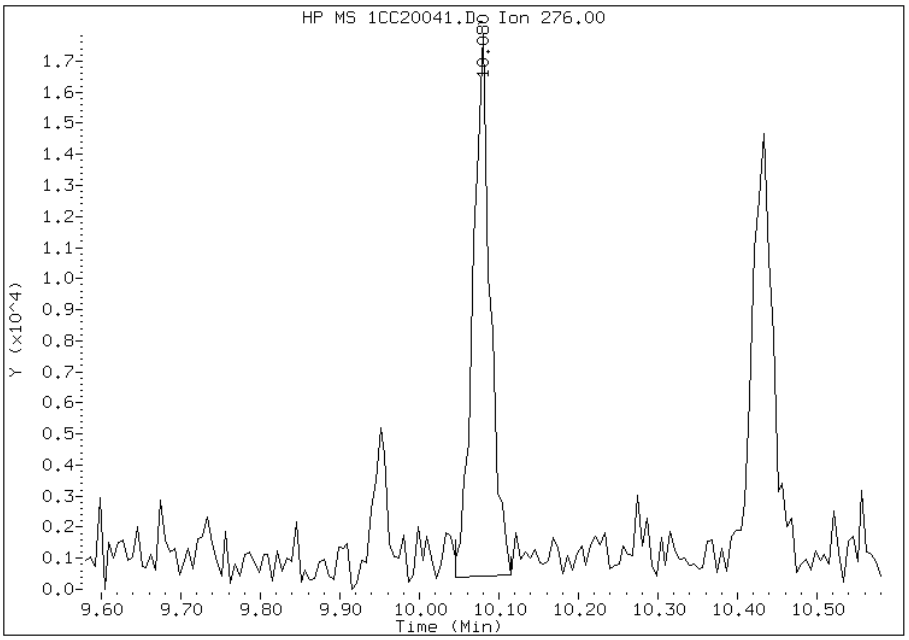
Processing Integration Results

RT: 10.08

Response: 26352

Amount: 1

Conc: 279



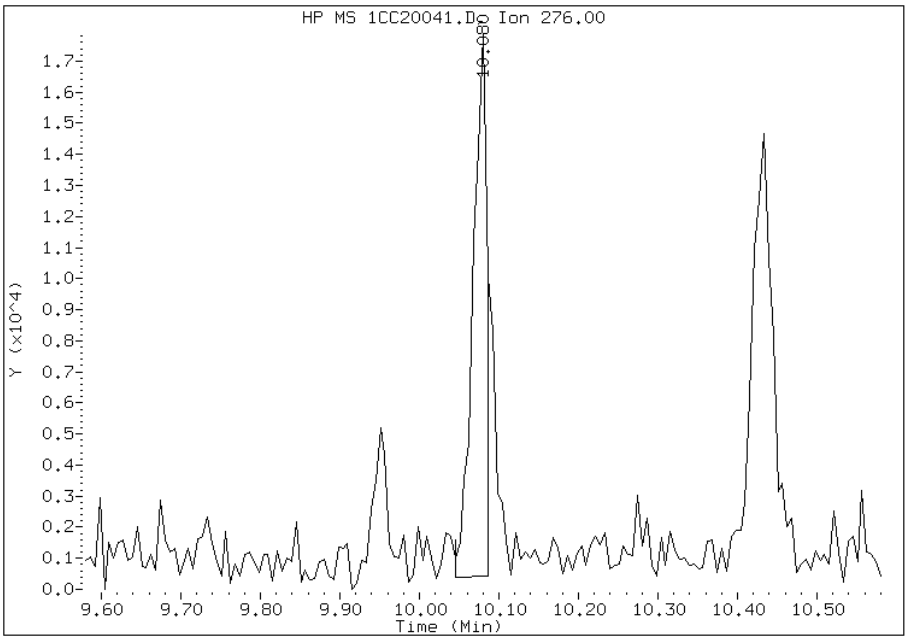
Manual Integration Results

RT: 10.08

Response: 21451

Amount: 1

Conc: 227



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0614B-CS-SP | Lab Sample ID: 680-88298-8

Matrix: Solid | Lab File ID: 1DC20014.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 08:55

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.04(g) | Date Analyzed: 03/20/2013 16:39

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

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

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	16	J	49	6.1
120-12-7	Anthracene	26		10	5.1
56-55-3	Benzo[a]anthracene	110		9.8	4.8
50-32-8	Benzo[a]pyrene	110		13	6.4
205-99-2	Benzo[b]fluoranthene	210		15	7.5
191-24-2	Benzo[g,h,i]perylene	98		25	5.4
207-08-9	Benzo[k]fluoranthene	68		9.8	4.4
218-01-9	Chrysene	140		11	5.5
53-70-3	Dibenz(a,h)anthracene	28		25	5.0
206-44-0	Fluoranthene	160		25	4.9
86-73-7	Fluorene	5.0	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	83		25	8.7
90-12-0	1-Methylnaphthalene	46	J	49	5.4
91-57-6	2-Methylnaphthalene	60		49	8.7
91-20-3	Naphthalene	49		49	5.4
85-01-8	Phenanthrene	97		9.8	4.8
129-00-0	Pyrene	130		25	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20014.D
Lab Smp Id: 680-88298-A-8-A Client Smp ID: CV0614B-CS-SP
Inj Date : 20-MAR-2013 16:39
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-8-A
Misc Info : 680-88298-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	18.644	% 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	6.131	6.131	(1.000)	3194696	40.0000	
* 6	Acenaphthene-d10	164	7.806	7.805	(1.000)	2128212	40.0000	
* 9	Phenanthrene-d10	188	9.069	9.068	(1.000)	3513422	40.0000	
$ 13	o-Terphenyl	230	9.375	9.380	(1.034)	370360	6.81666	560
* 17	Chrysene-d12	240	11.408	11.413	(1.000)	3677948	40.0000	
* 22	Perylene-d12	264	13.288	13.281	(1.000)	3840604	40.0000	
2	Naphthalene	128	6.149	6.154	(1.003)	51414	0.60161	49
3	2-Methylnaphthalene	142	6.854	6.853	(1.118)	39793	0.73097	60
4	1-Methylnaphthalene	142	6.942	6.947	(1.132)	28496	0.55898	46
5	Acenaphthylene	152	7.677	7.682	(0.983)	18650	0.19877	16
8	Fluorene	166	8.270	8.275	(1.059)	4107	0.06144	5.0
10	Phenanthrene	178	9.087	9.092	(1.002)	117781	1.18095	96
11	Anthracene	178	9.122	9.133	(1.006)	31621	0.31689	26
12	Carbazole	167	9.263	9.268	(1.021)	20915	0.23446	19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.068	10.073	(1.110)	209162	2.00962	160
15 Pyrene	202	10.256	10.261	(0.899)	182714	1.60154	130
16 Benzo(a)anthracene	228	11.390	11.389	(0.998)	129905	1.29010	100
18 Chrysene	228	11.431	11.436	(1.002)	184391	1.77374	140
19 Benzo(b)fluoranthene	252	12.712	12.723	(0.957)	253806	2.56742	210(H)
20 Benzo(k)fluoranthene	252	12.741	12.764	(0.959)	85511	0.82615	68
21 Benzo(a)pyrene	252	13.170	13.181	(0.991)	127769	1.30608	110
23 Indeno(1,2,3-cd)pyrene	276	14.880	14.903	(1.120)	105563	1.01115	83(M)
24 Dibenzo(a,h)anthracene	278	14.903	14.932	(1.122)	33566	0.34814	28
25 Benzo(g,h,i)perylene	276	15.332	15.361	(1.154)	118885	1.19437	98(H)

QC Flag Legend

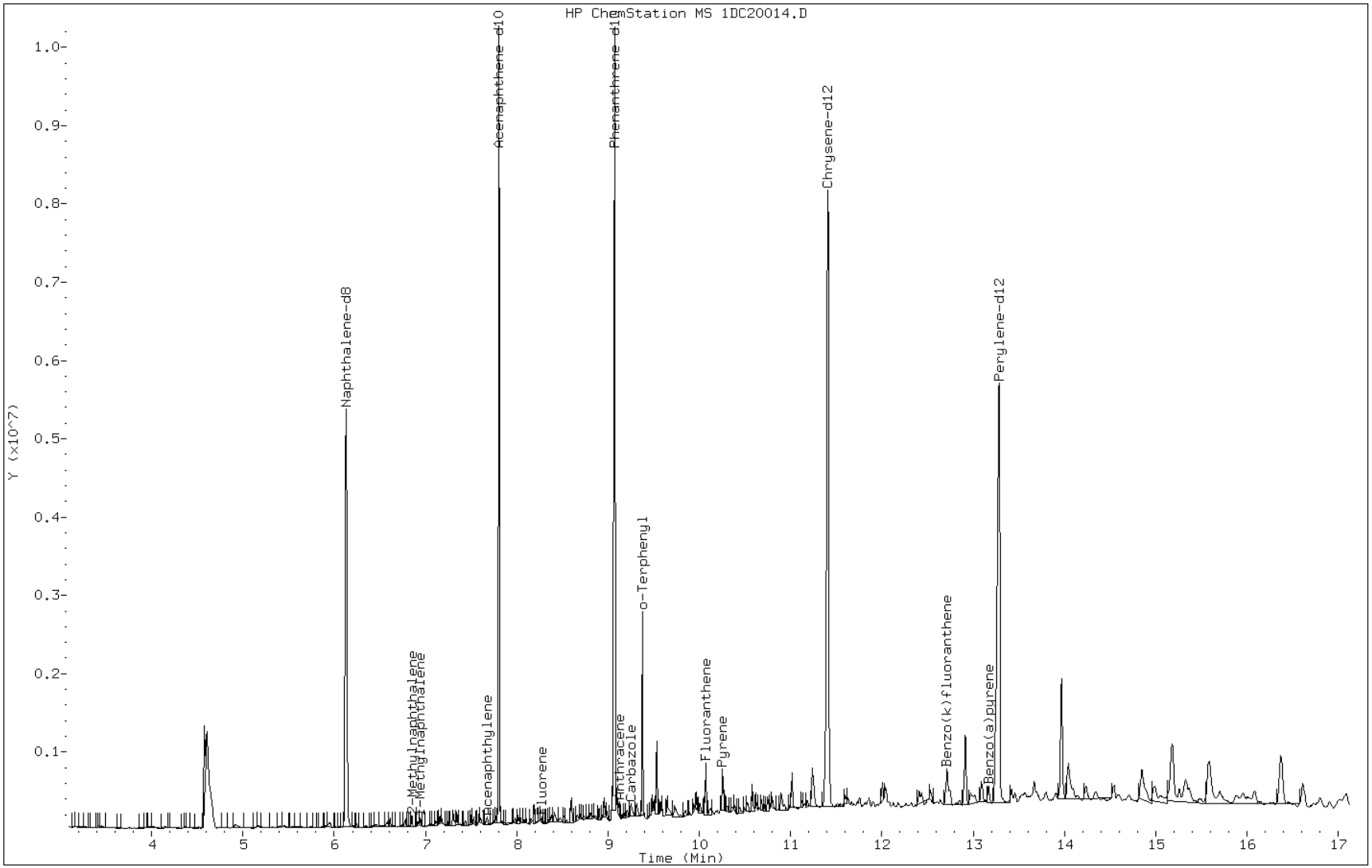
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC



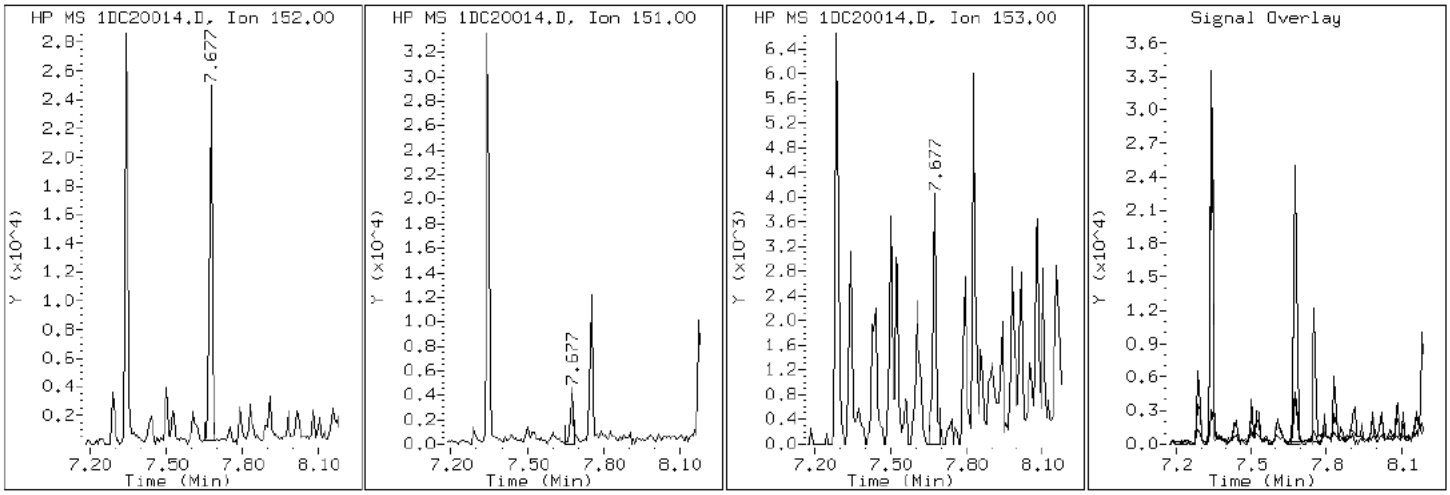
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

5 Acenaphthylene



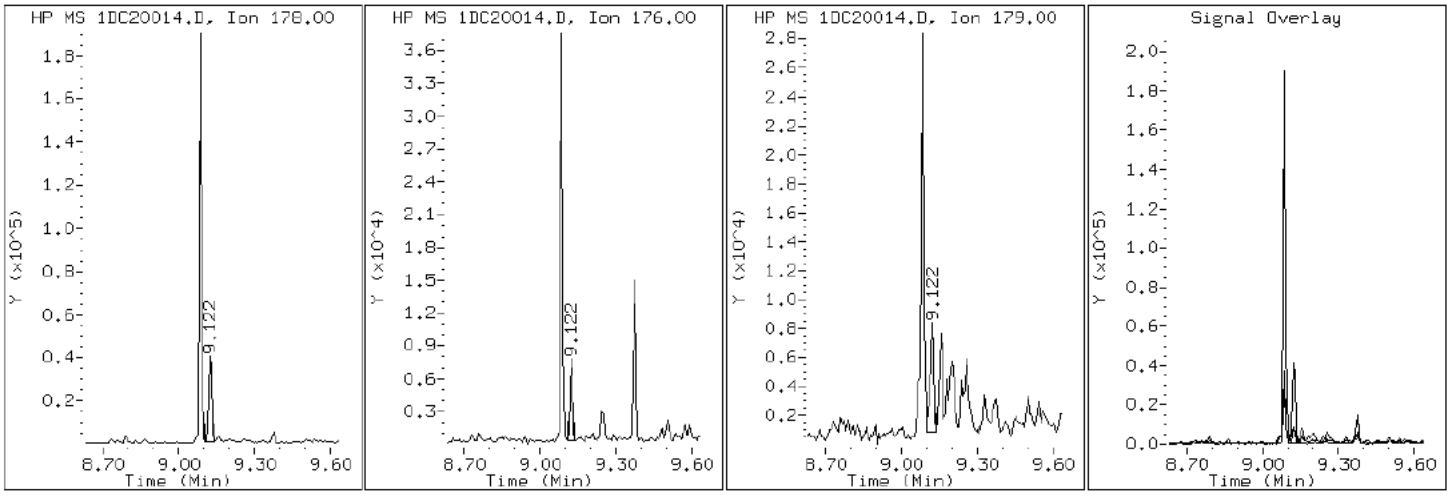
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

11 Anthracene



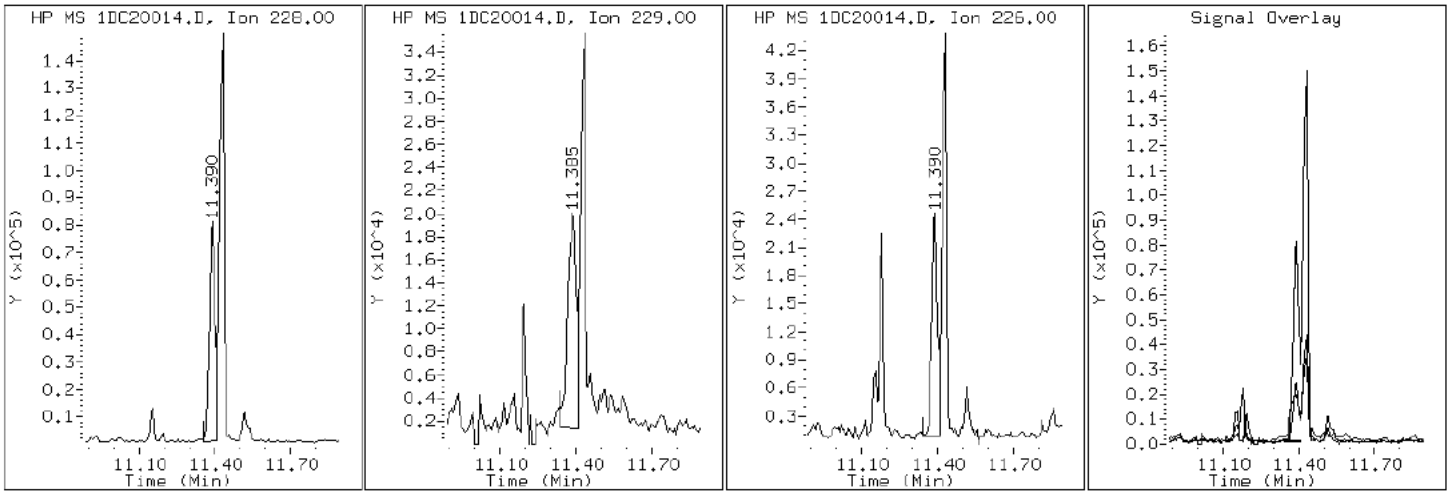
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

16 Benzo(a)anthracene



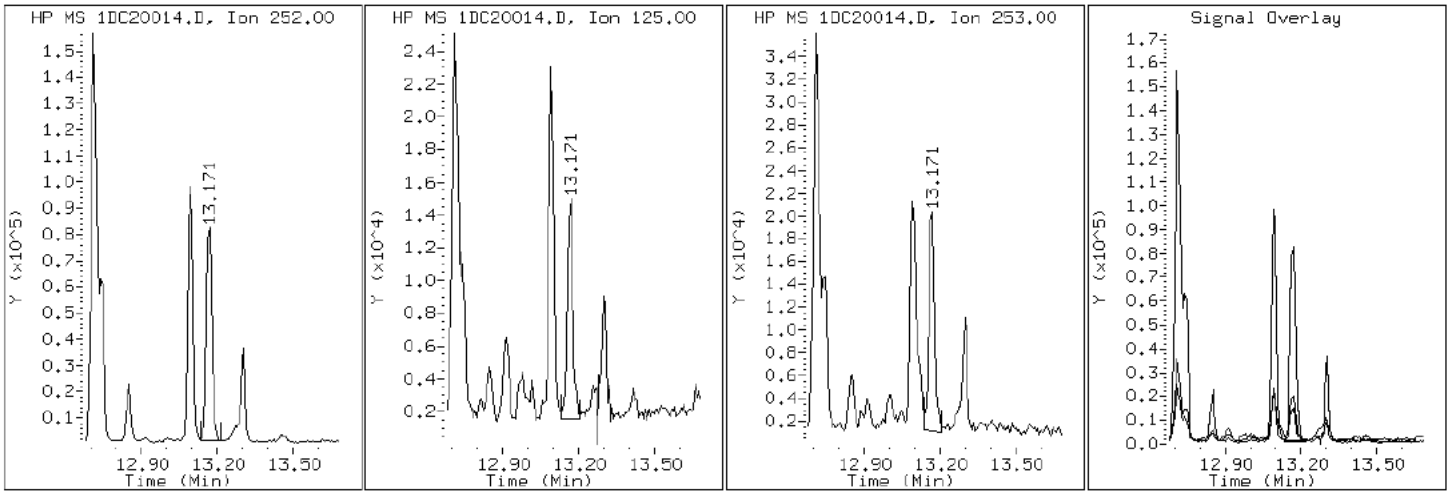
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

21 Benzo(a)pyrene



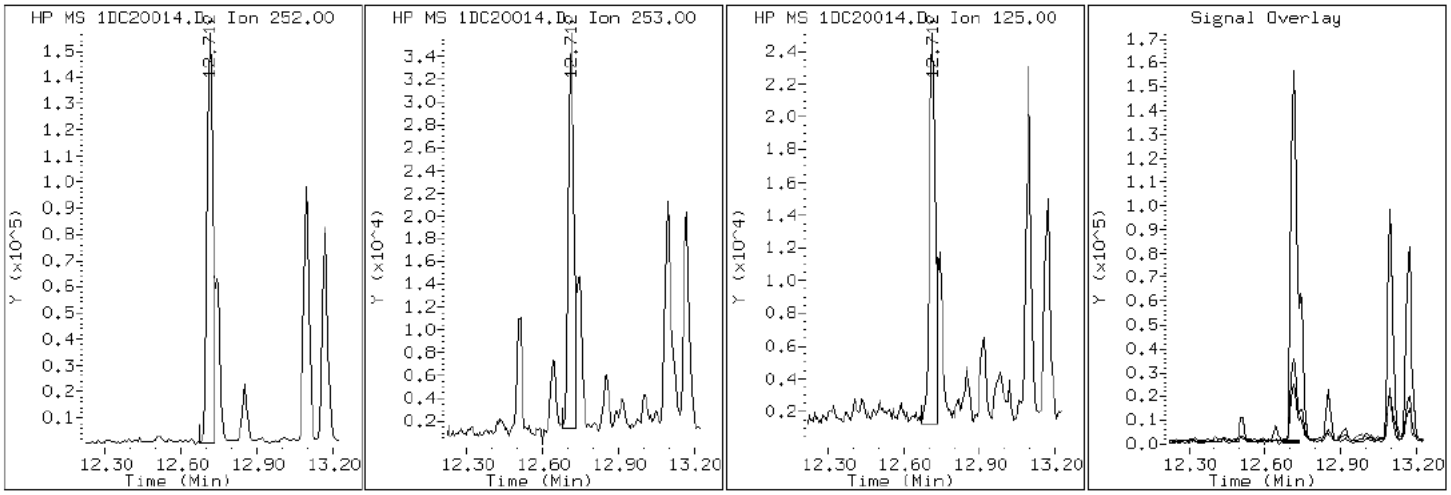
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

19 Benzo(b)fluoranthene



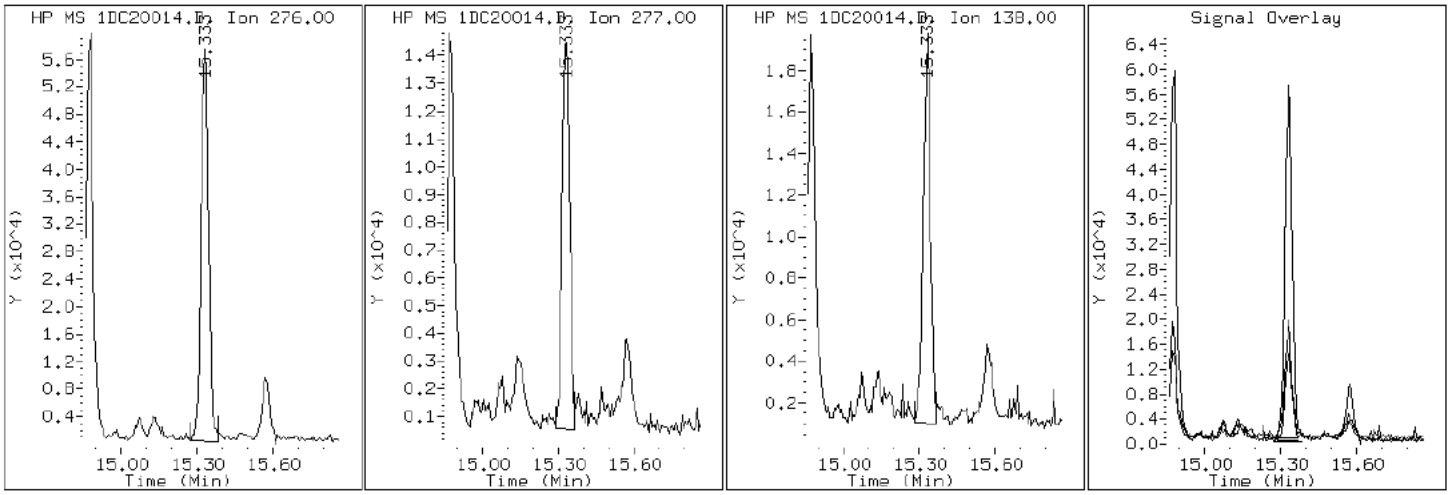
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

25 Benzo(g,h,i)perylene



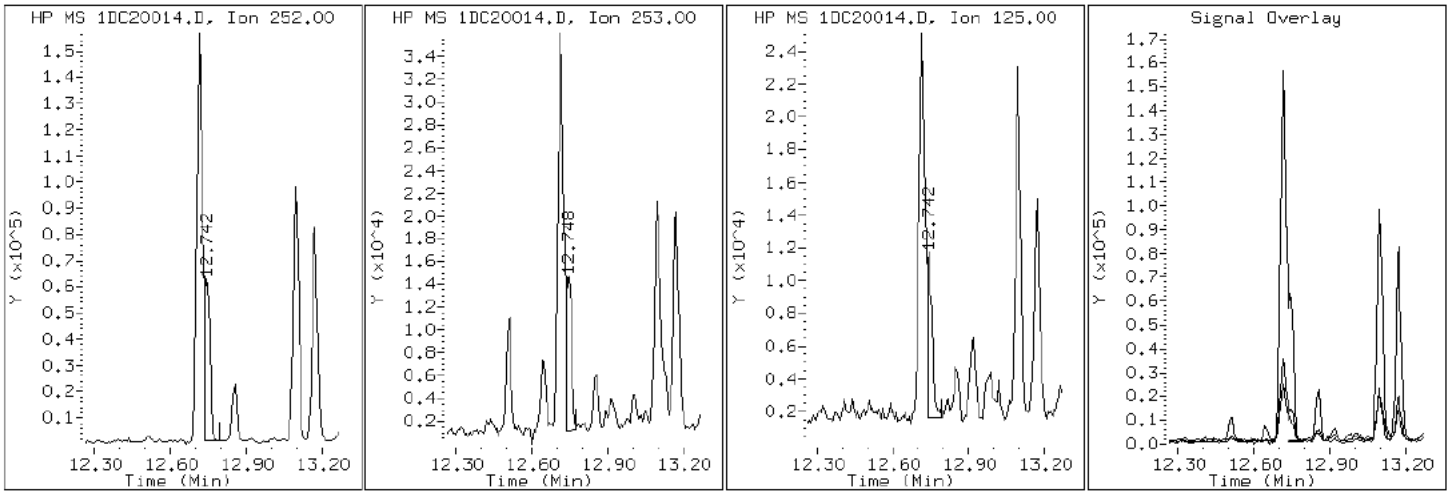
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

20 Benzo(k)fluoranthene



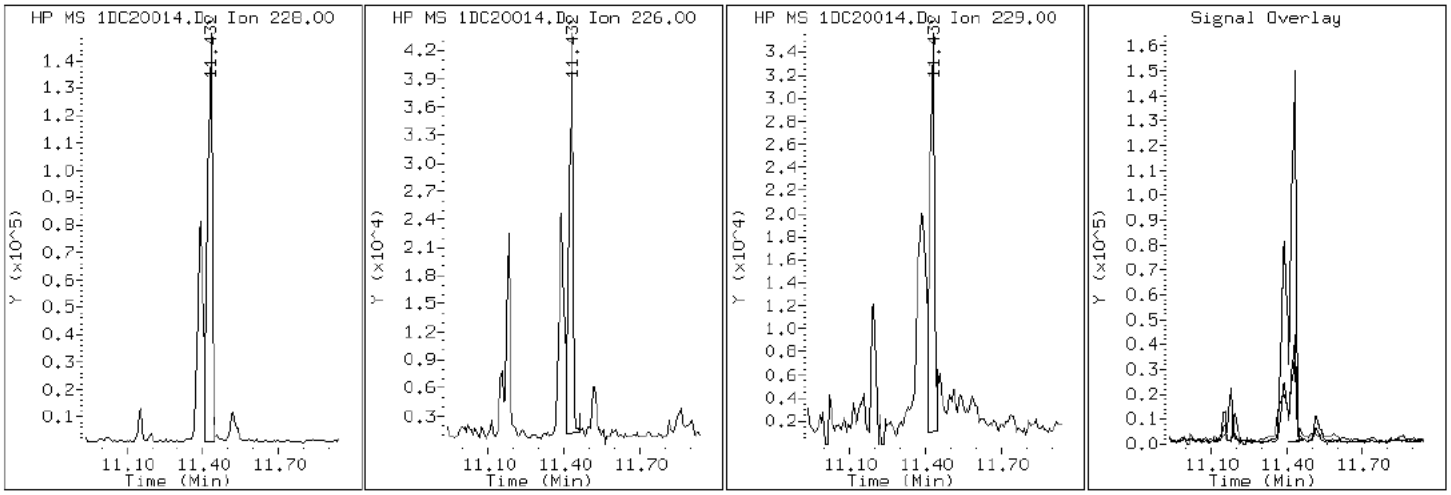
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

18 Chrysene



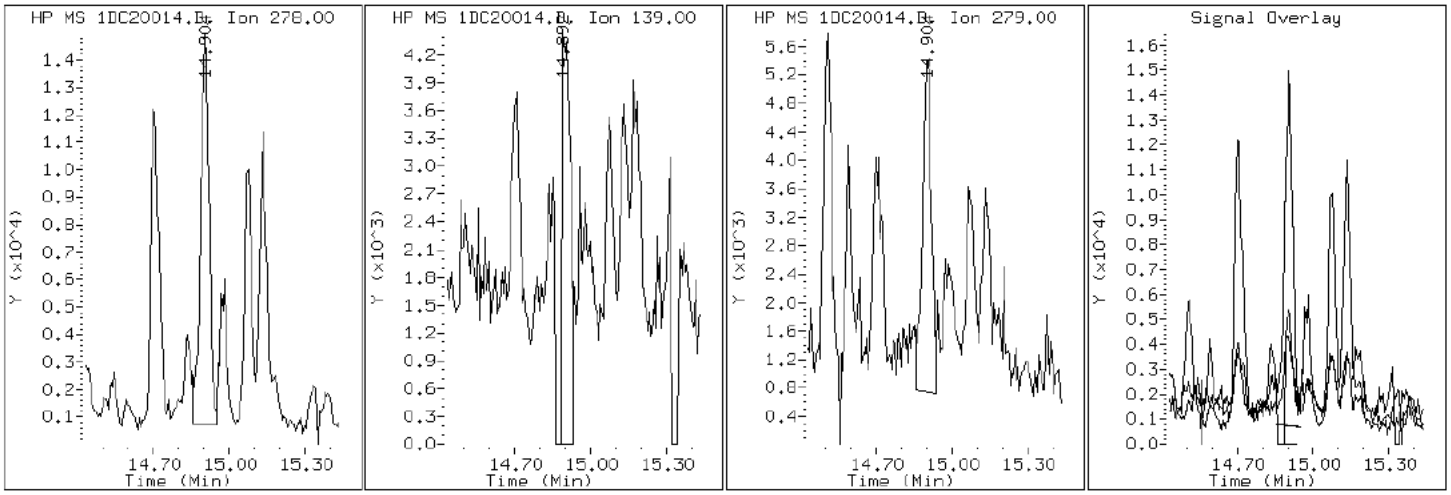
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

24 Dibenzo(a,h)anthracene



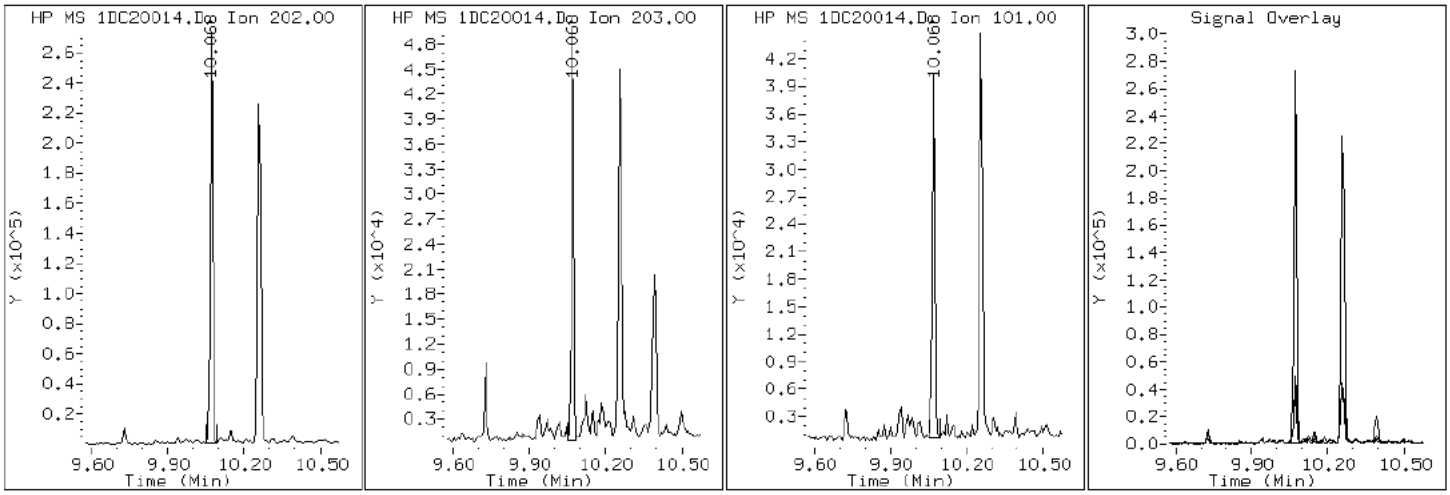
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

14 Fluoranthene



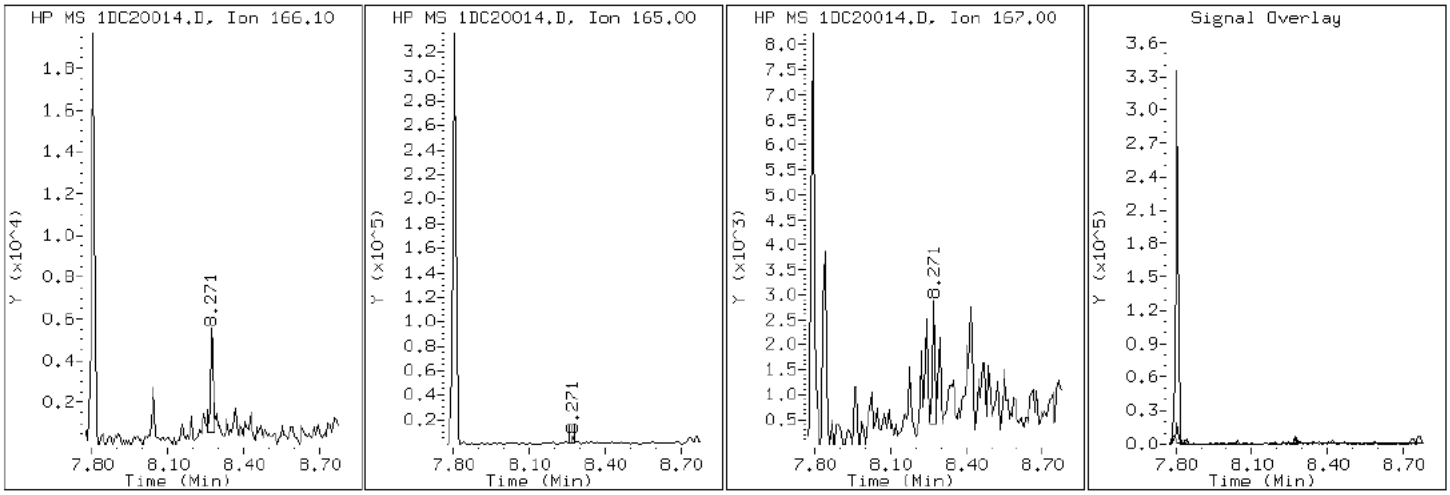
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

8 Fluorene



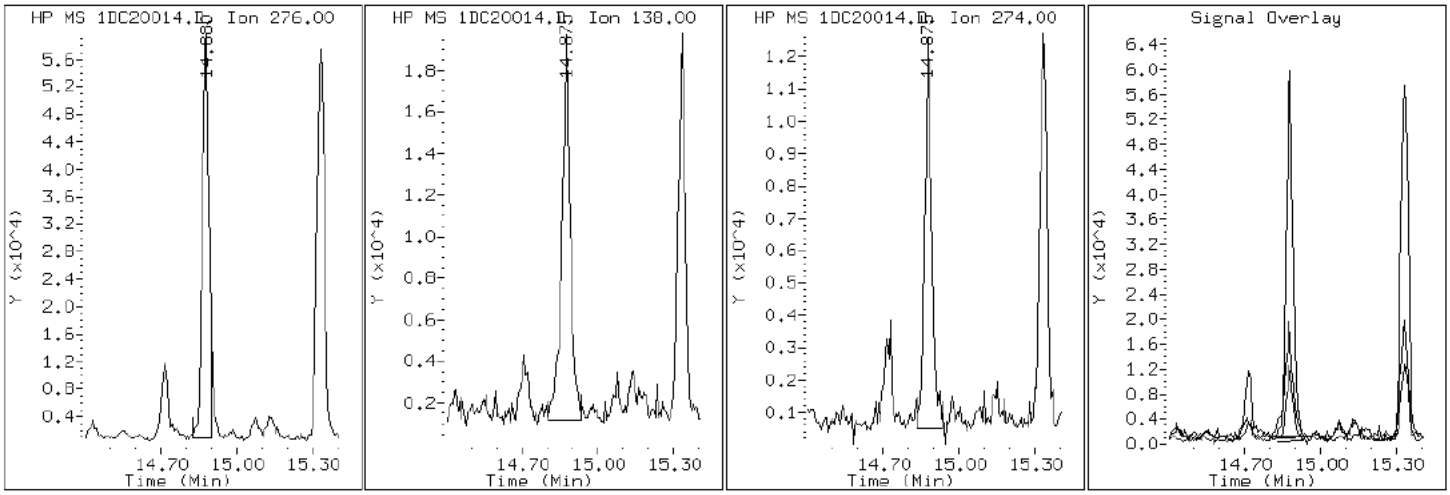
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

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



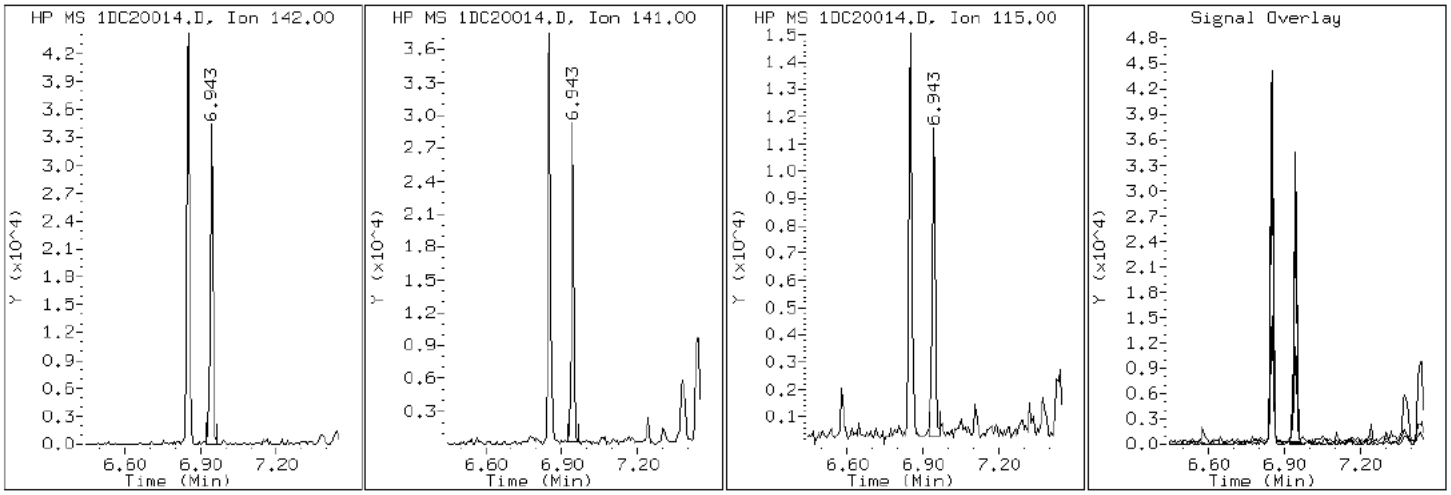
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

4 1-Methylnaphthalene



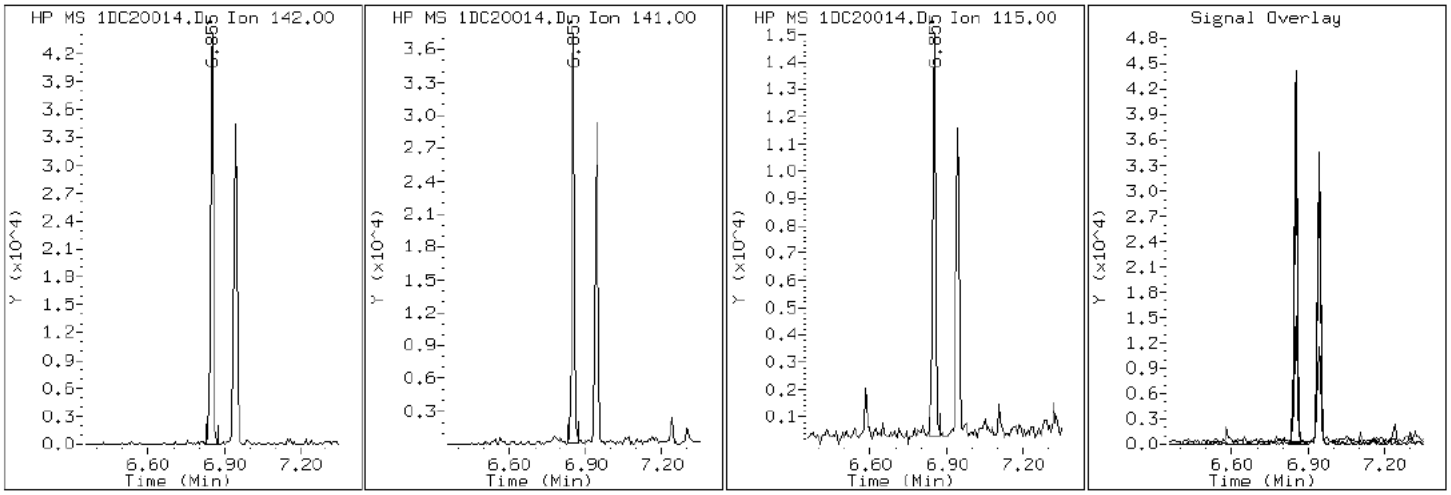
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

3 2-Methylnaphthalene



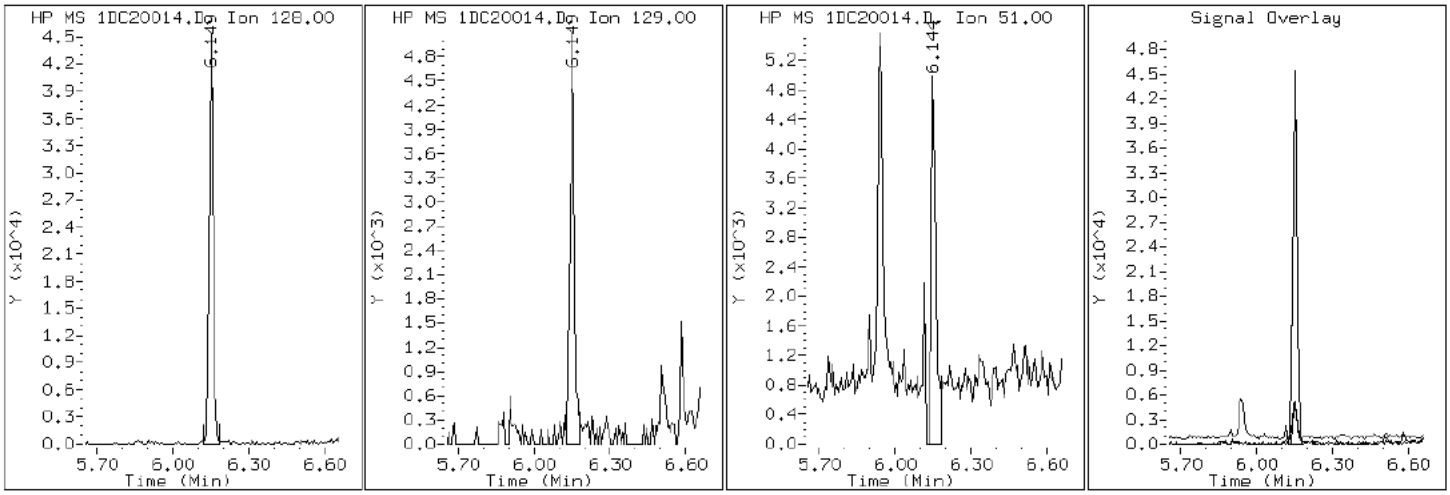
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

2 Naphthalene



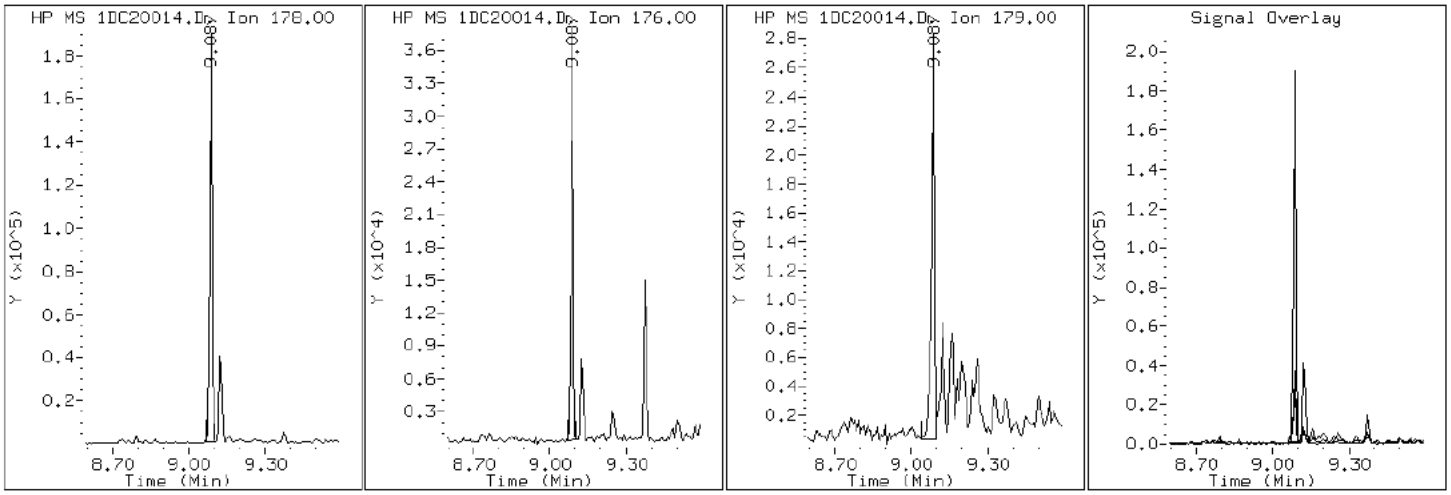
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

10 Phenanthrene



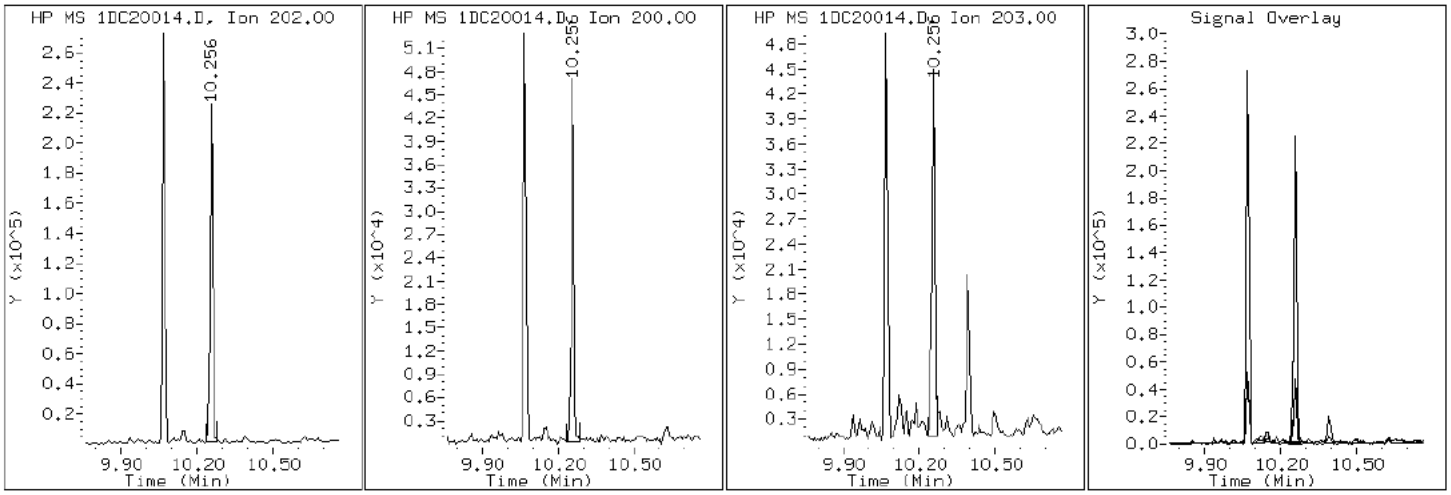
Data File: 1DC20014.D

Date: 20-MAR-2013 16:39

Client ID: CV0614B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88298-A-8-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20014.D
Inj. Date and Time: 20-MAR-2013 16:39
Instrument ID: BSMSD.i
Client ID: CV0614B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

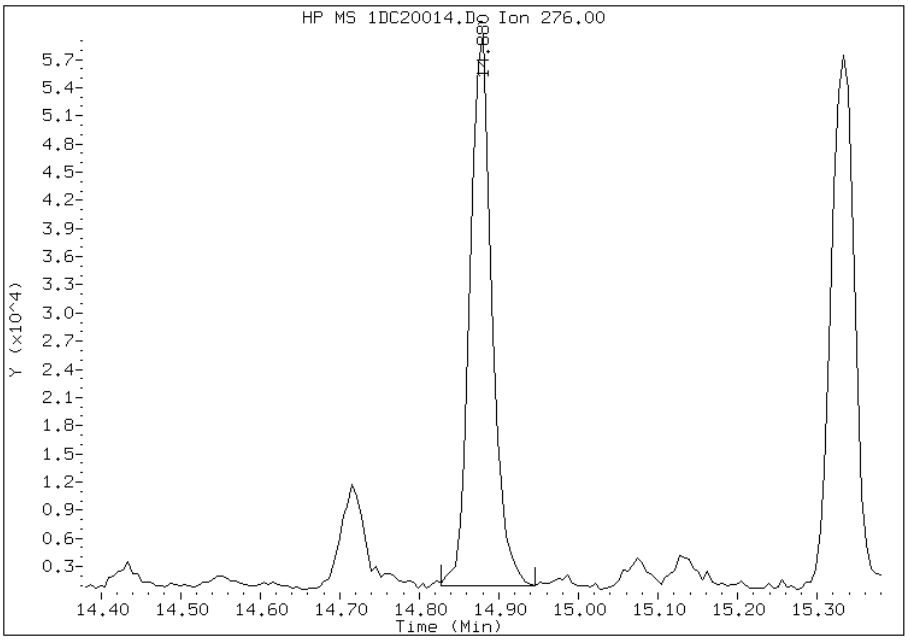
Processing Integration Results

RT: 14.88

Response: 113488

Amount: 1

Conc: 89



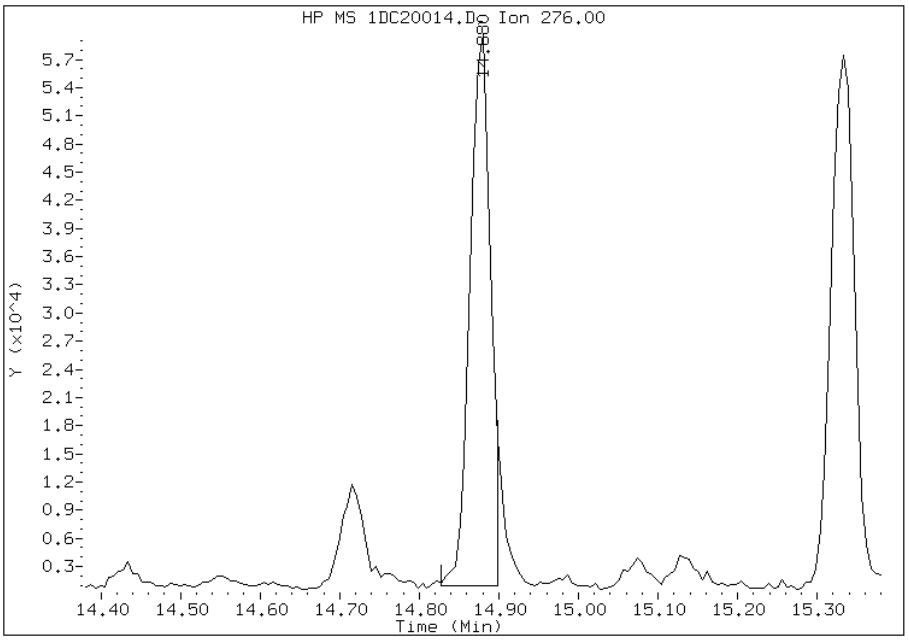
Manual Integration Results

RT: 14.88

Response: 105563

Amount: 1

Conc: 83



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1033A-CSD | Lab Sample ID: 680-88298-9

Matrix: Solid | Lab File ID: 1DC20015.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:50

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 14.96(g) | Date Analyzed: 03/20/2013 17:02

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

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

% Moisture: 24.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	J	530	110
208-96-8	Acenaphthylene	150	J	210	27
120-12-7	Anthracene	780		45	22
56-55-3	Benzo[a]anthracene	2100		43	21
50-32-8	Benzo[a]pyrene	1600		56	28
205-99-2	Benzo[b]fluoranthene	2700		65	33
191-24-2	Benzo[g,h,i]perylene	1100		110	24
207-08-9	Benzo[k]fluoranthene	920		43	19
218-01-9	Chrysene	1900		48	24
53-70-3	Dibenz(a,h)anthracene	350		110	22
206-44-0	Fluoranthene	4800		110	21
86-73-7	Fluorene	340		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	1000		110	38
90-12-0	1-Methylnaphthalene	270		210	24
91-57-6	2-Methylnaphthalene	240		210	38
91-20-3	Naphthalene	300		210	24
85-01-8	Phenanthrene	3300		43	21
129-00-0	Pyrene	3400		110	20

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20015.D
Lab Smp Id: 680-88298-A-9-A Client Smp ID: CV1033A-CSD
Inj Date : 20-MAR-2013 17:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-9-A
Misc Info : 680-88298-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	24.941	% 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/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.136	6.131	(1.000)	3814104	40.0000	
* 6	Acenaphthene-d10	164	7.811	7.805	(1.000)	2549874	40.0000	
* 9	Phenanthrene-d10	188	9.074	9.068	(1.000)	4242021	40.0000	
$ 13	o-Terphenyl	230	9.374	9.380	(1.033)	78250	1.19286	420(H)
* 17	Chrysene-d12	240	11.418	11.413	(1.000)	4465434	40.0000	
* 22	Perylene-d12	264	13.298	13.281	(1.000)	4761433	40.0000	
2	Naphthalene	128	6.154	6.154	(1.003)	86391	0.84672	300
3	2-Methylnaphthalene	142	6.853	6.853	(1.117)	44470	0.68422	240
4	1-Methylnaphthalene	142	6.947	6.947	(1.132)	45660	0.75022	270
5	Acenaphthylene	152	7.676	7.682	(0.983)	48876	0.43477	150
7	Acenaphthene	154	7.834	7.835	(1.003)	78154	1.14020	410
8	Fluorene	166	8.275	8.275	(1.059)	76953	0.96089	340
10	Phenanthrene	178	9.092	9.092	(1.002)	1131452	9.39612	3300
11	Anthracene	178	9.127	9.133	(1.006)	265436	2.20316	780

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.262	9.268	(1.021)	158073	1.46767	520
14 Fluoranthene	202	10.073	10.073	(1.110)	1702048	13.5444	4800
15 Pyrene	202	10.261	10.261	(0.899)	1311081	9.46536	3400
16 Benzo(a)anthracene	228	11.395	11.389	(0.998)	712164	5.82530	2100
18 Chrysene	228	11.436	11.436	(1.002)	672587	5.32893	1900
19 Benzo(b)fluoranthene	252	12.723	12.723	(0.957)	915126	7.46686	2600(H)
20 Benzo(k)fluoranthene	252	12.752	12.764	(0.959)	330278	2.57381	920(H)
21 Benzo(a)pyrene	252	13.181	13.181	(0.991)	558174	4.60230	1600
23 Indeno(1,2,3-cd)pyrene	276	14.891	14.903	(1.120)	378268	2.92258	1000(M)
24 Dibenzo(a,h)anthracene	278	14.914	14.932	(1.121)	118401	0.99054	350(H)
25 Benzo(g,h,i)perylene	276	15.349	15.361	(1.154)	394133	3.19386	1100

QC Flag Legend

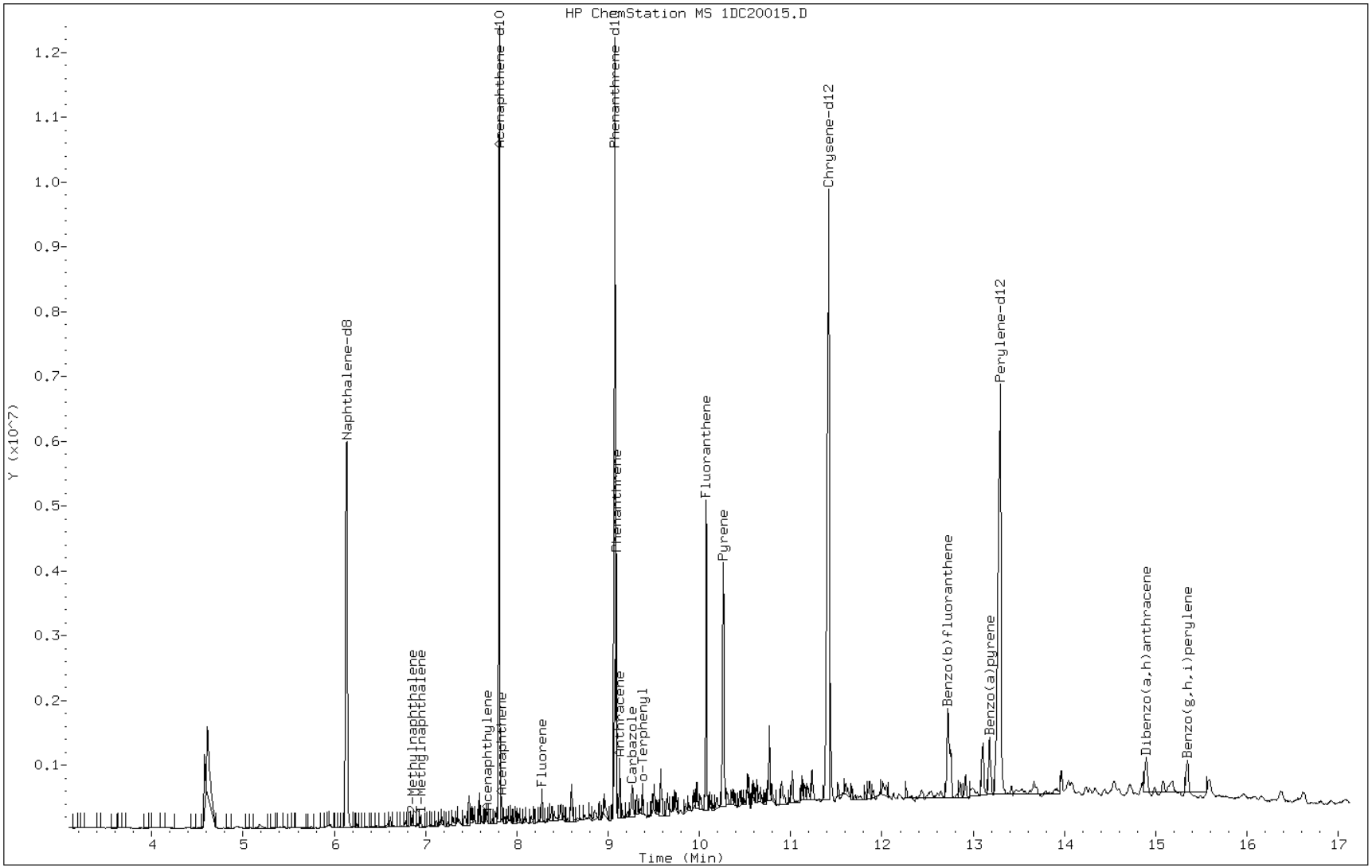
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC



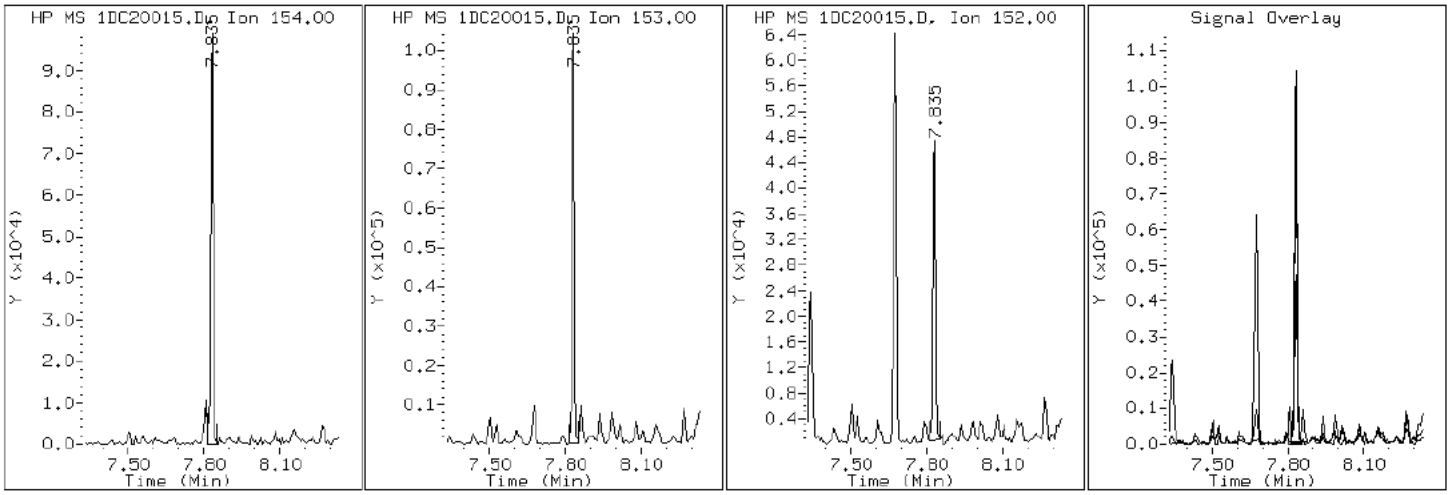
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

7 Acenaphthene



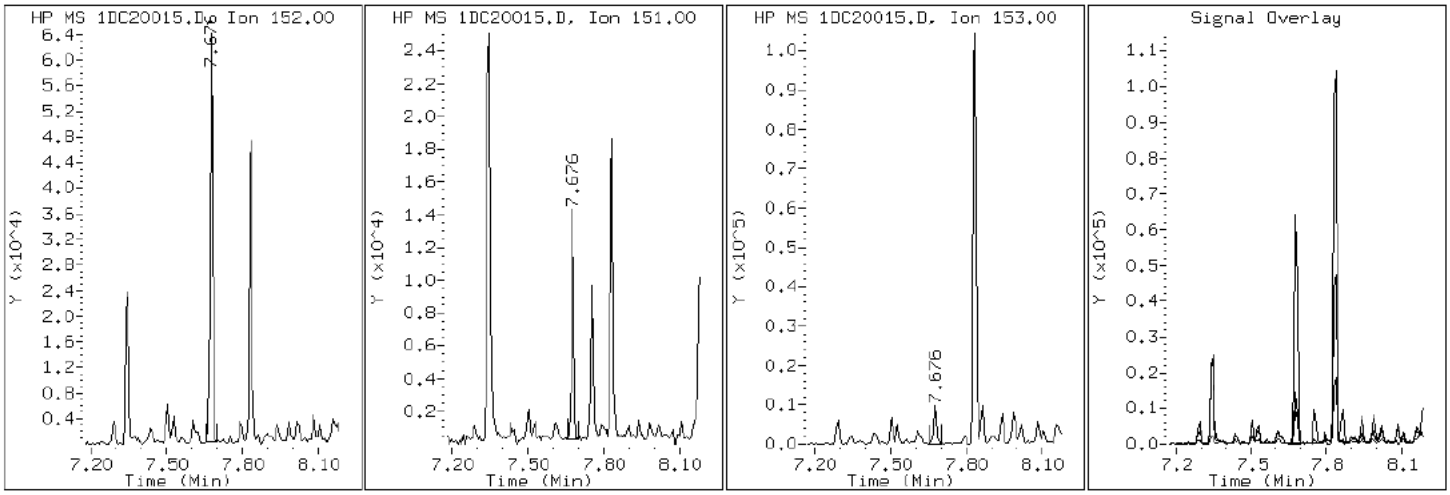
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

5 Acenaphthylene



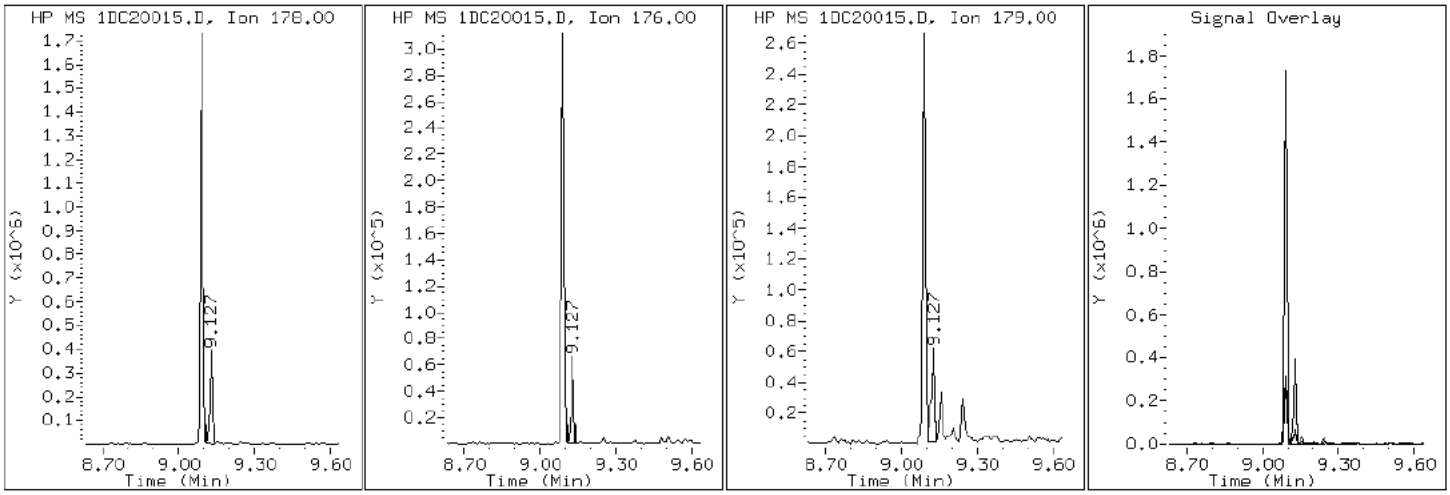
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

11 Anthracene



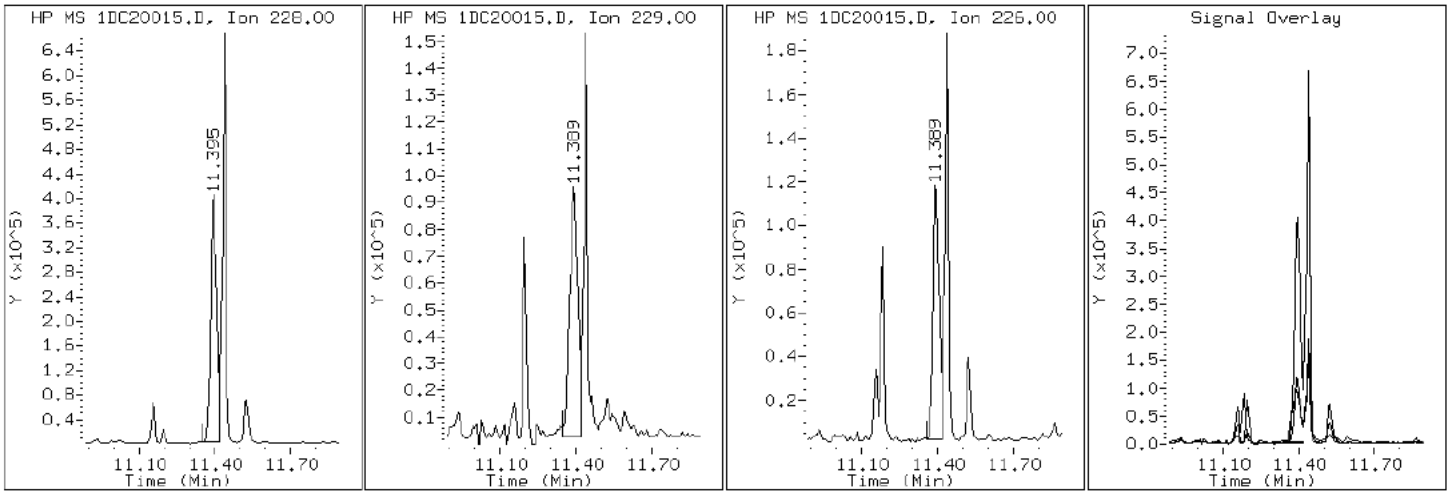
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

16 Benzo(a)anthracene



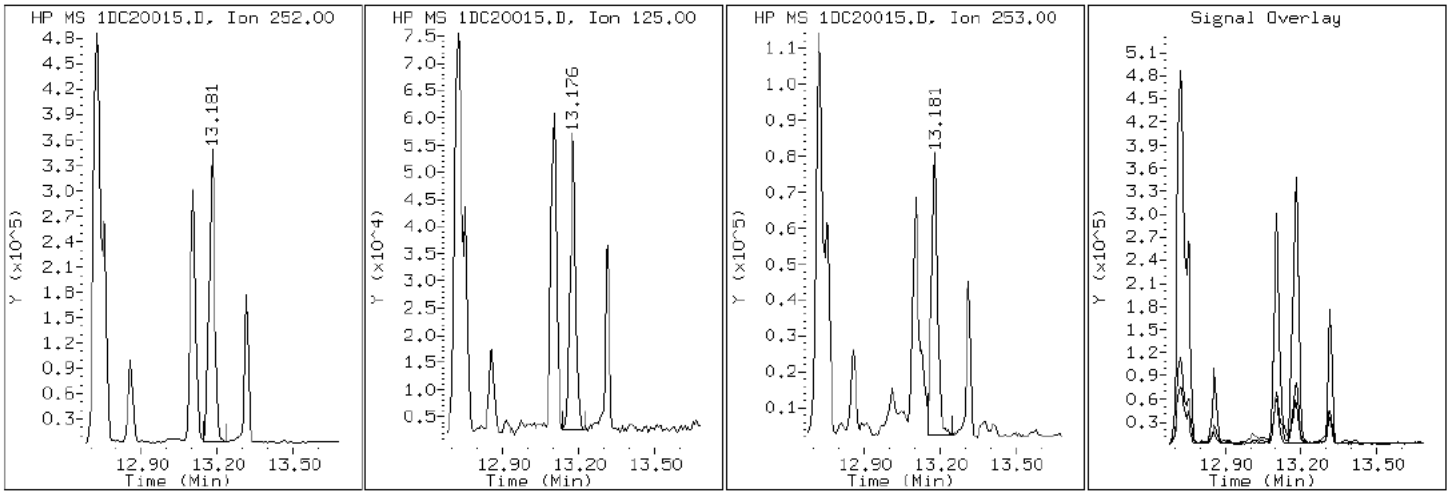
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

21 Benzo(a)pyrene



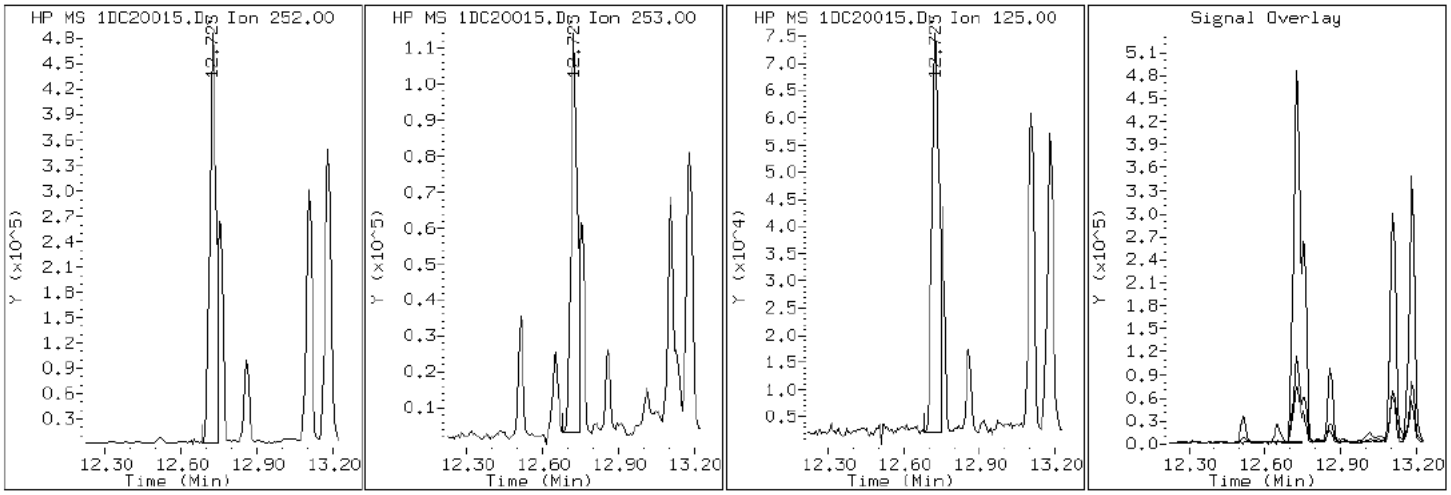
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

19 Benzo(b)fluoranthene



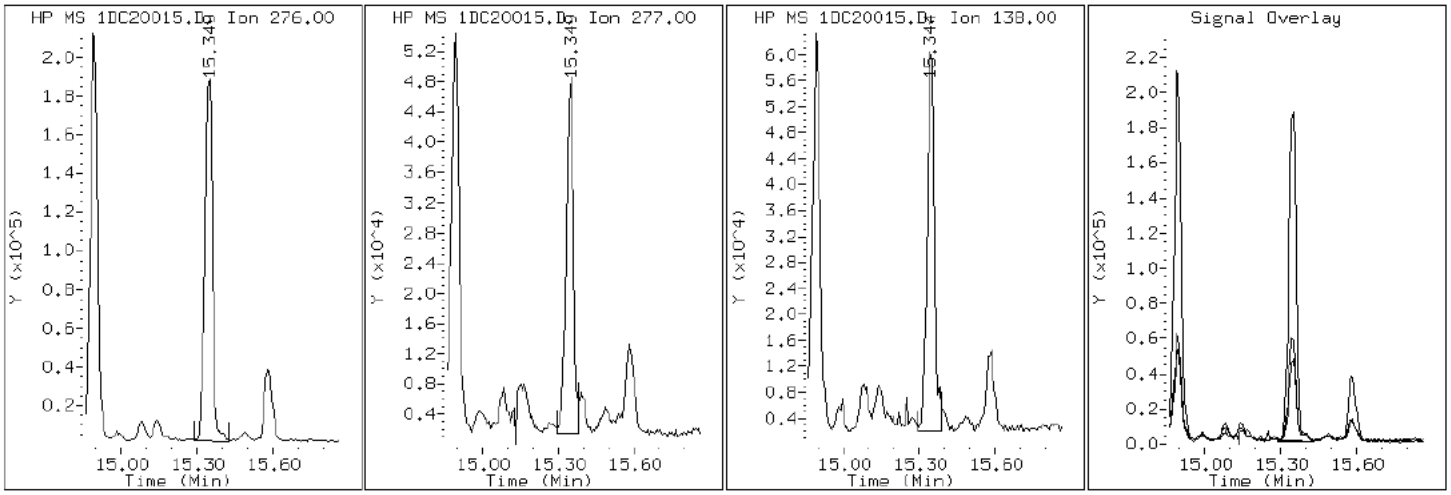
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

25 Benzo(g,h,i)perylene



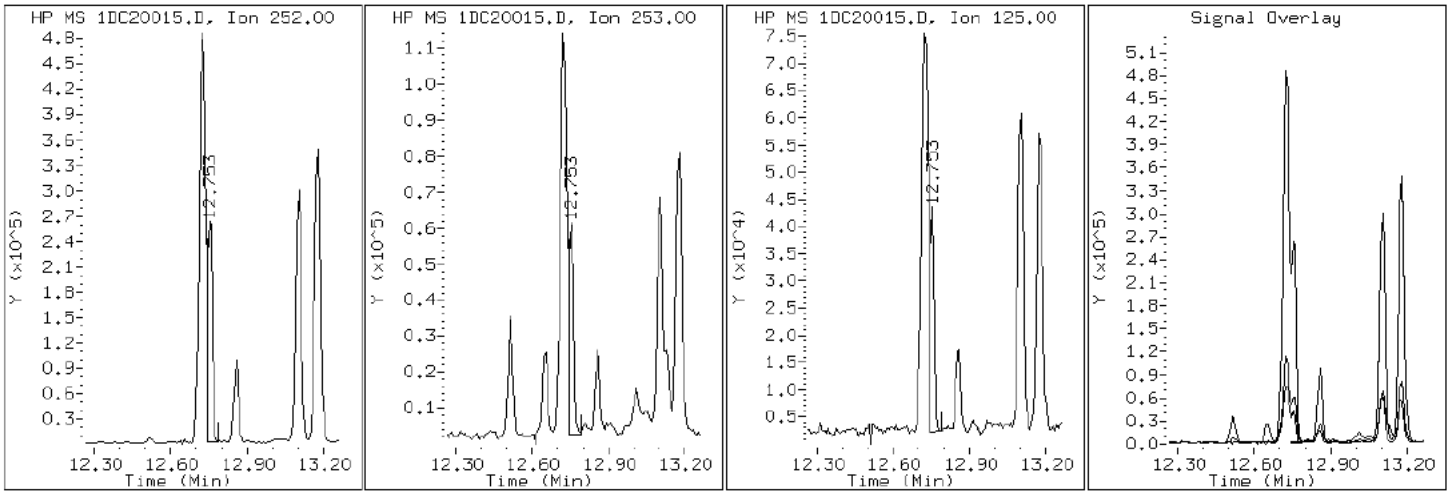
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

20 Benzo(k)fluoranthene



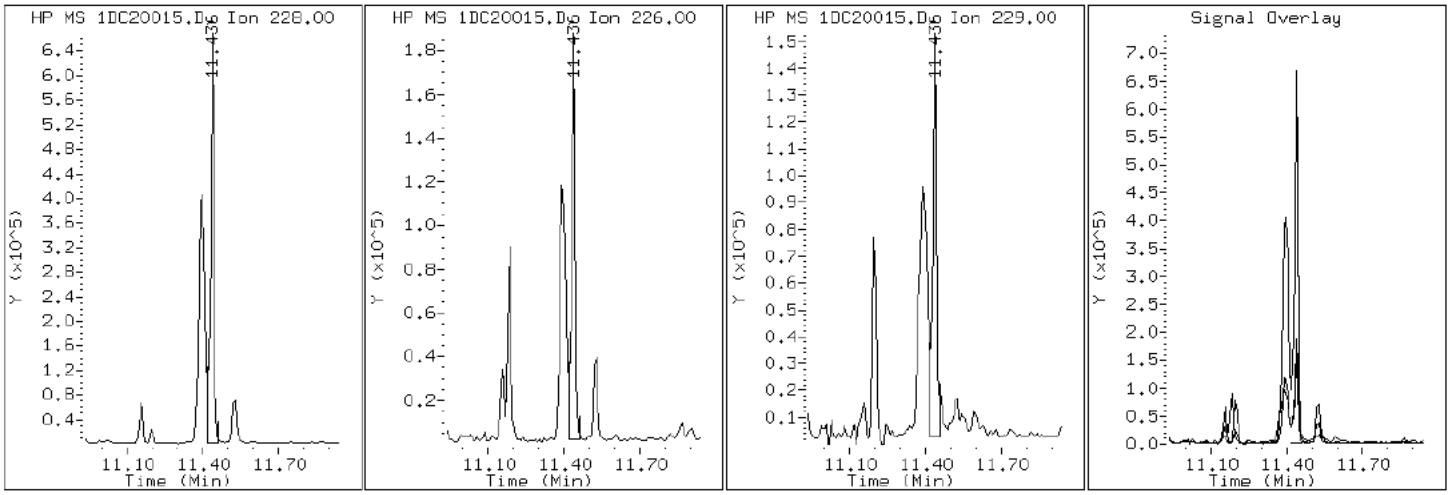
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

18 Chrysene



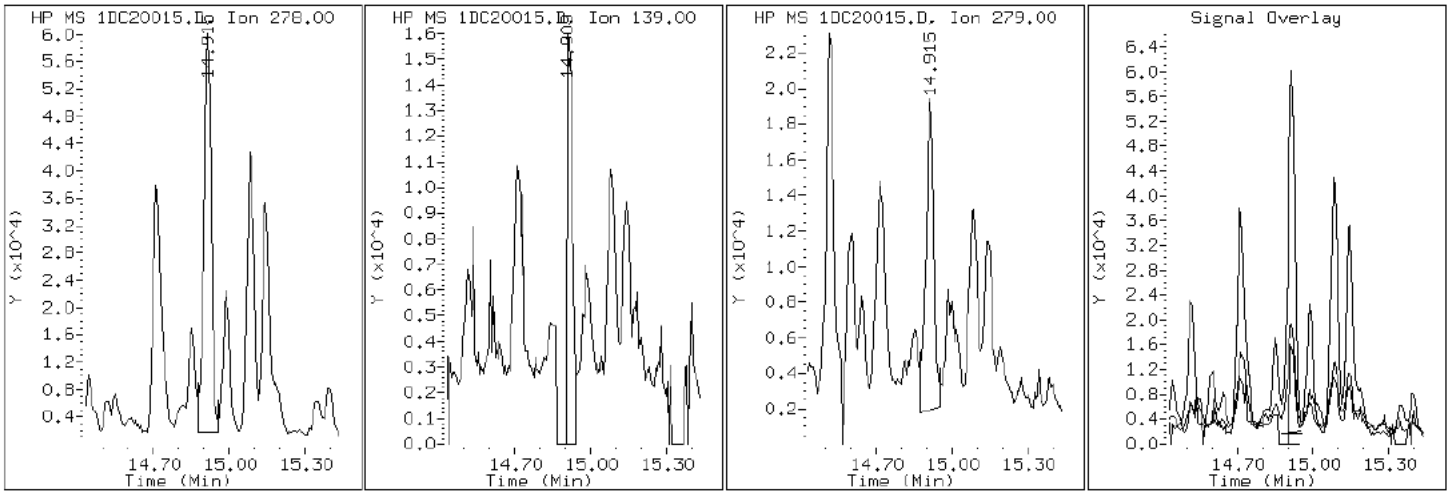
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

24 Dibenzo(a,h)anthracene



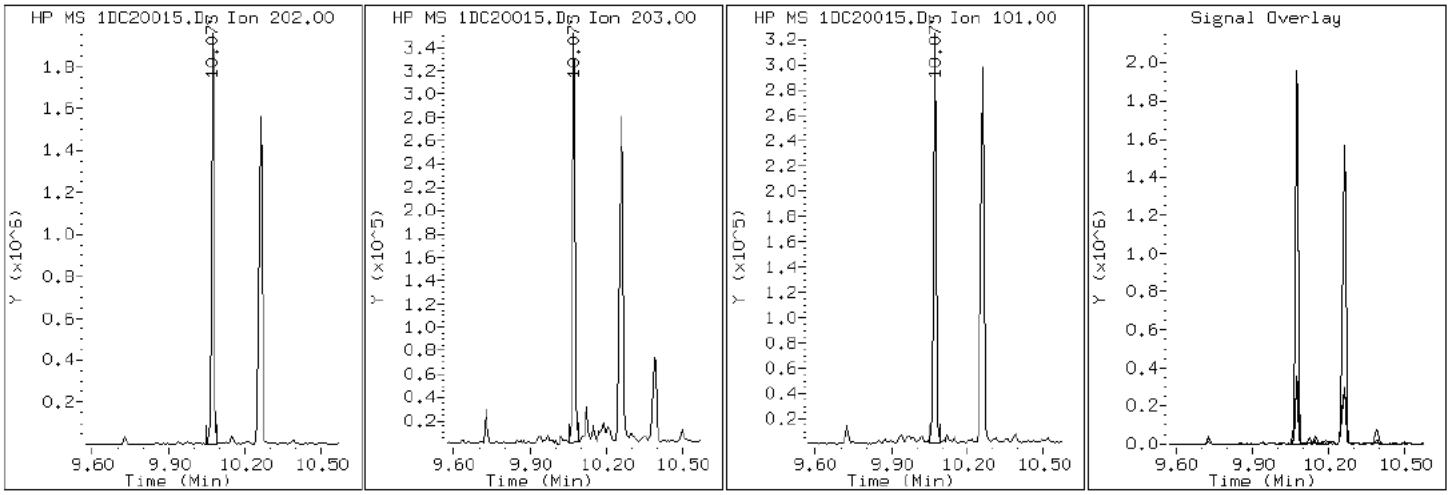
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

14 Fluoranthene



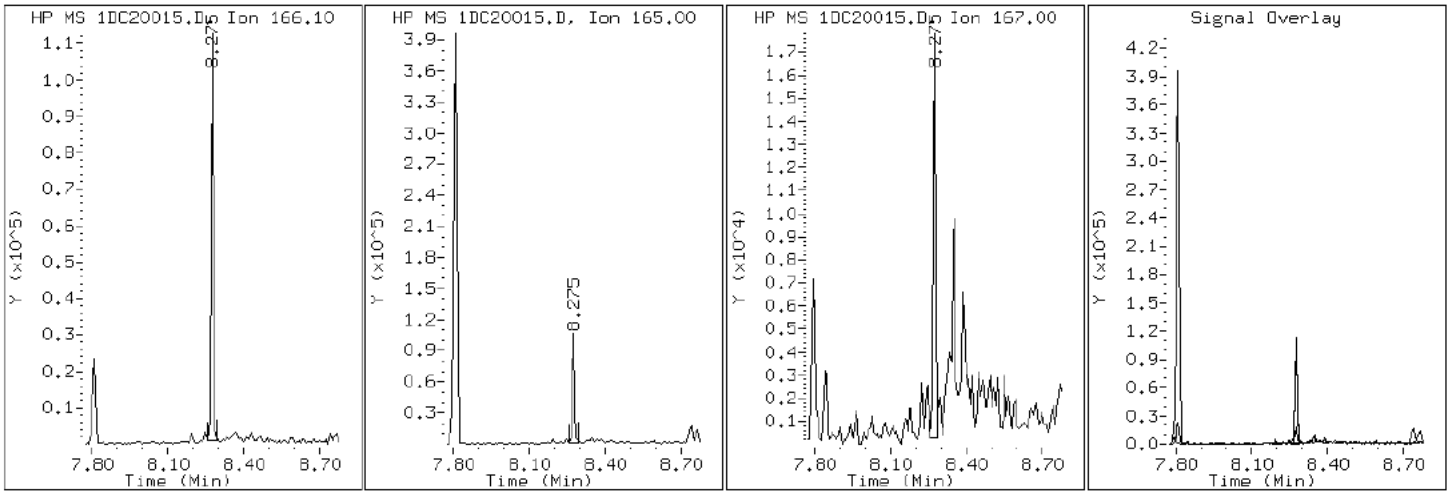
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

8 Fluorene



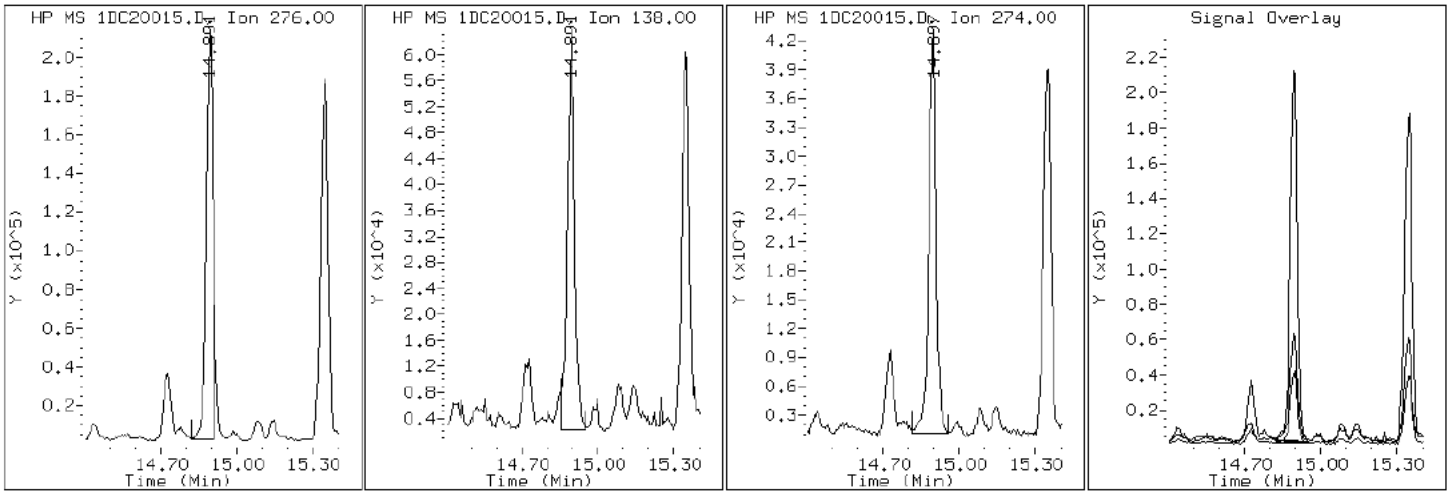
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

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



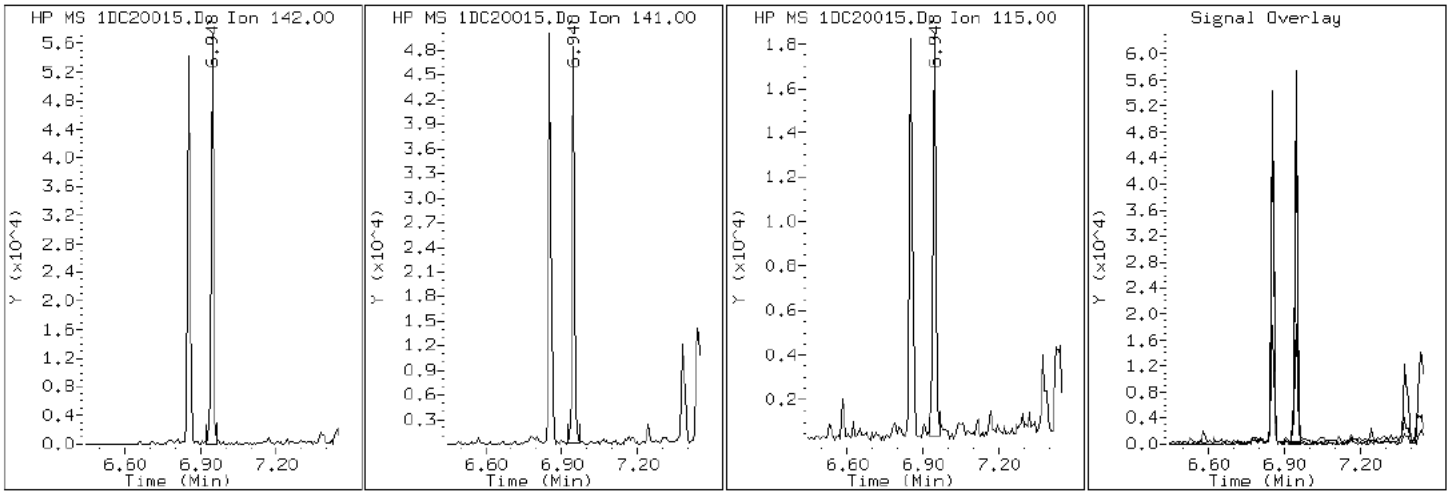
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

4 1-Methylnaphthalene



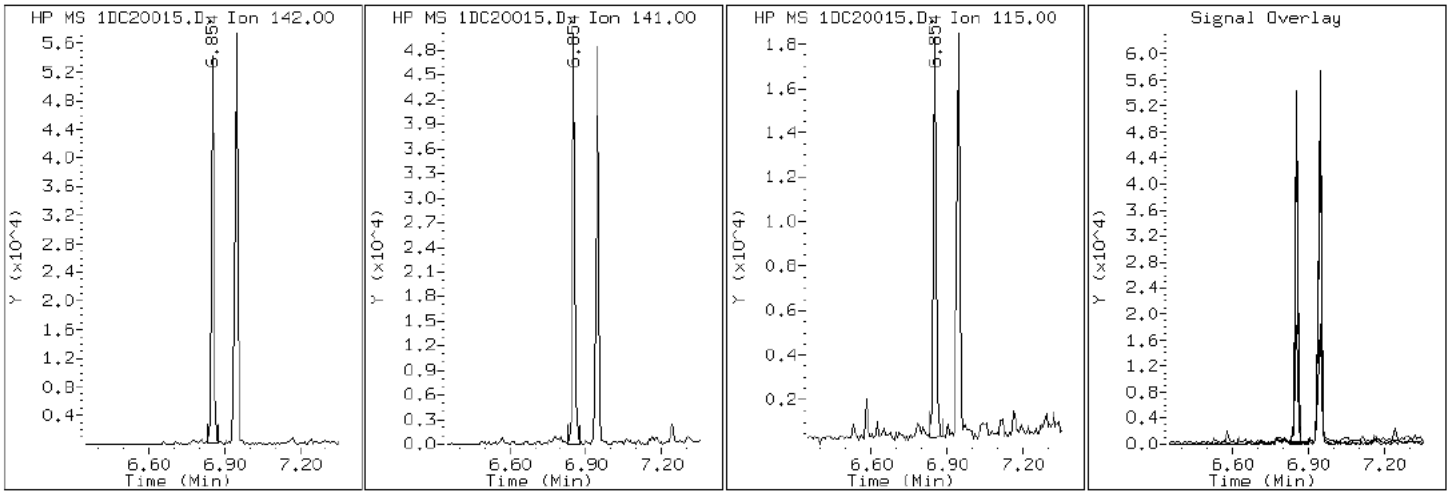
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

3 2-Methylnaphthalene



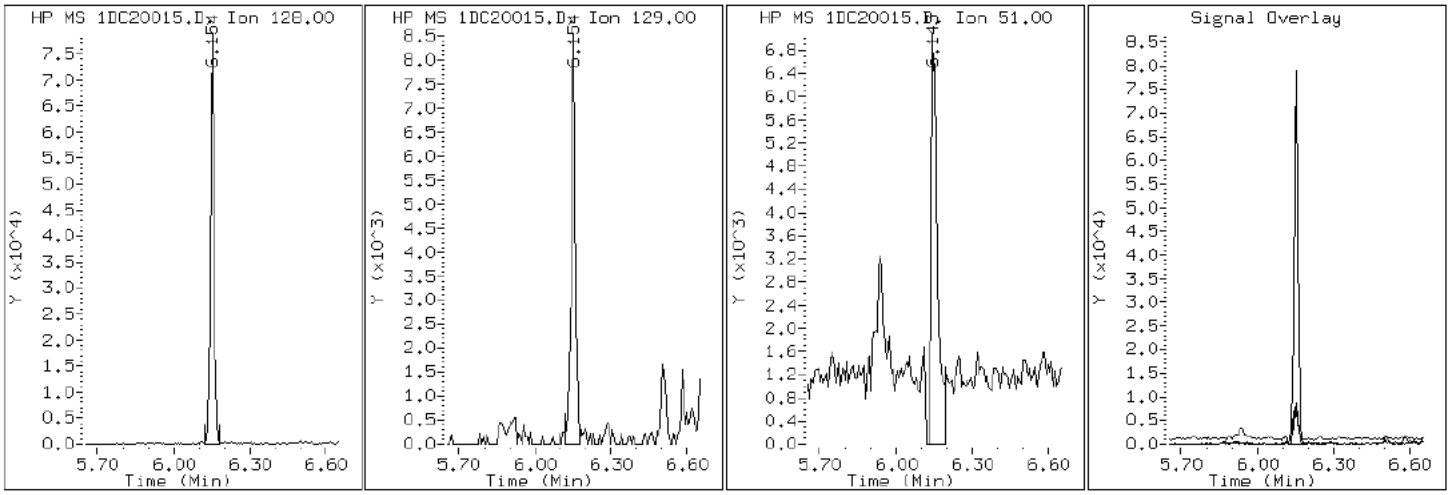
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

2 Naphthalene



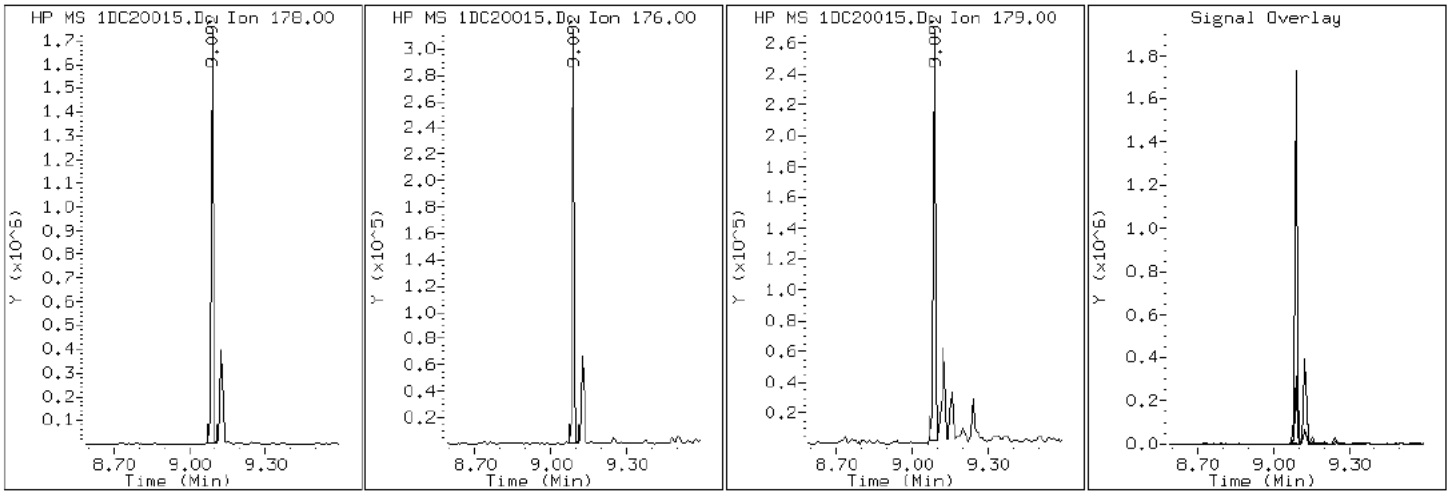
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

10 Phenanthrene



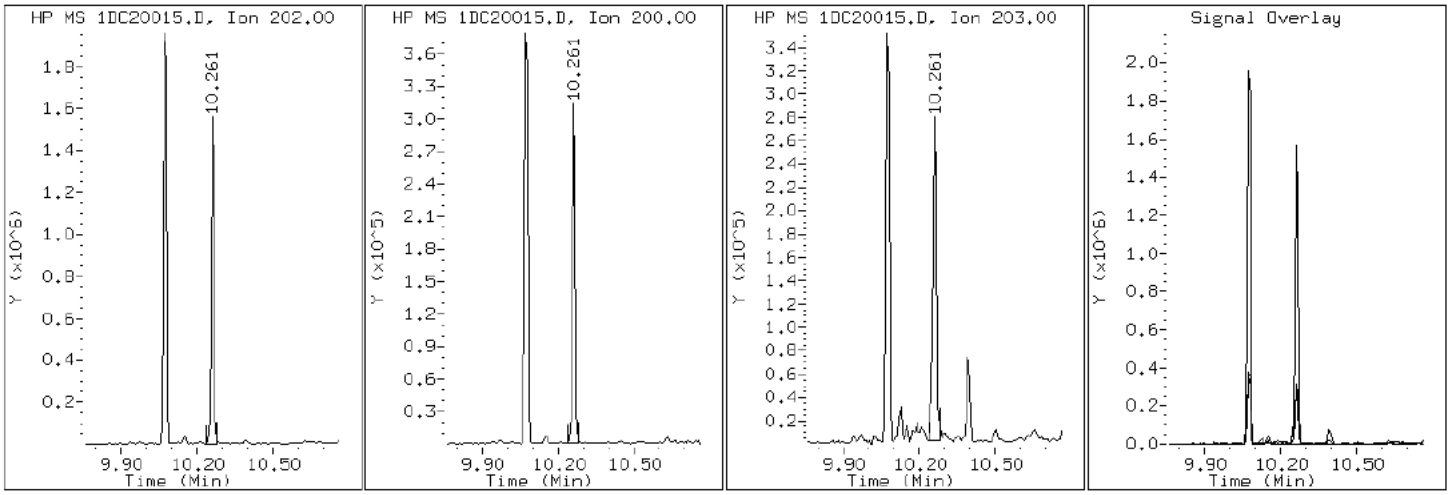
Data File: 1DC20015.D

Date: 20-MAR-2013 17:02

Client ID: CV1033A-CSD Instrument: BSMSD.i

Sample Info: 680-88298-A-9-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20015.D
Inj. Date and Time: 20-MAR-2013 17:02
Instrument ID: BSMSD.i
Client ID: CV1033A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

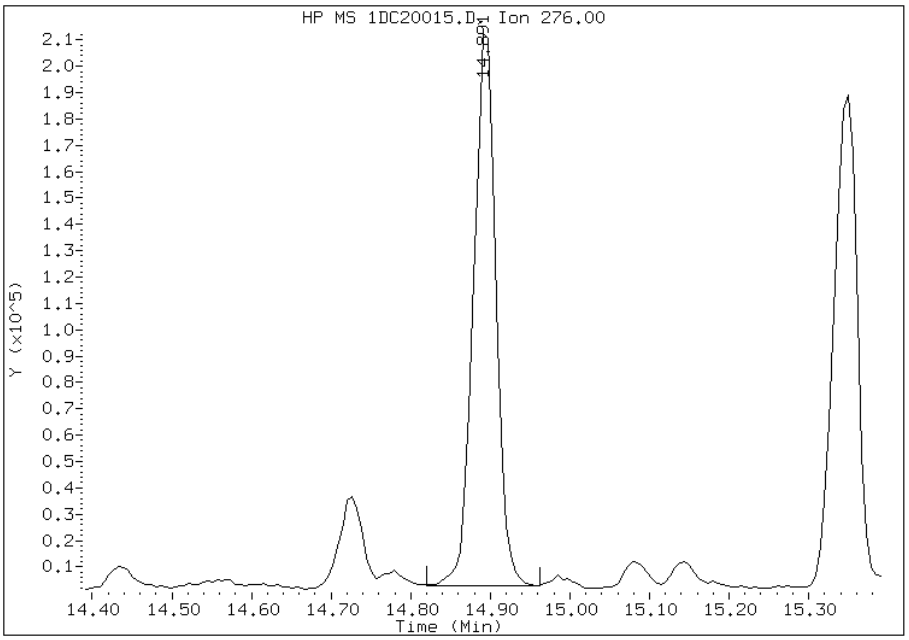
Processing Integration Results

RT: 14.89

Response: 409838

Amount: 3

Conc: 1128



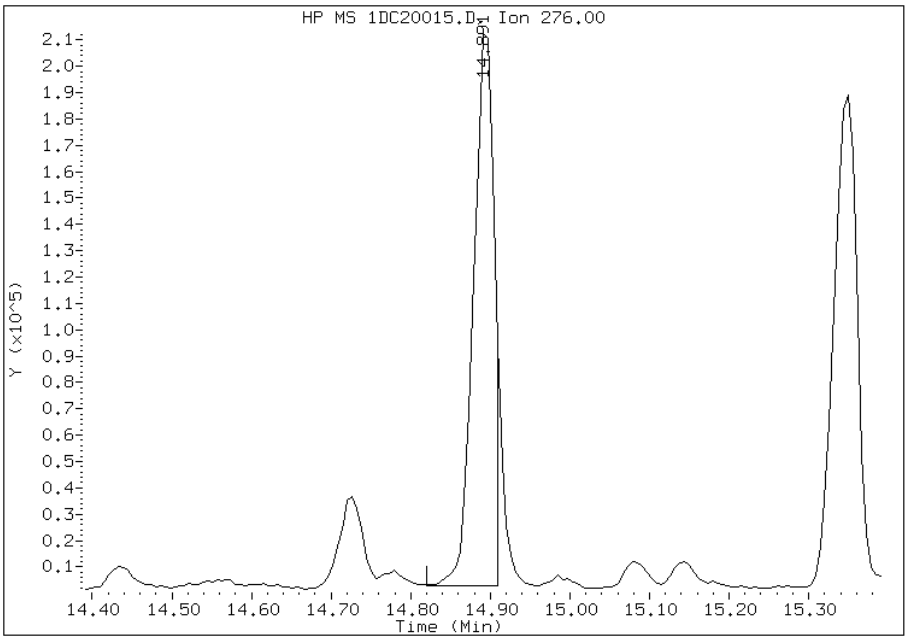
Manual Integration Results

RT: 14.89

Response: 378268

Amount: 3

Conc: 1041



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1033A-CS | Lab Sample ID: 680-88298-10

Matrix: Solid | Lab File ID: 1DC20016.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:50

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 14.96(g) | Date Analyzed: 03/20/2013 17:24

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

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

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

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570		140	27
208-96-8	Acenaphthylene	170		54	6.8
120-12-7	Anthracene	1100		11	5.7
56-55-3	Benzo[a]anthracene	2600		11	5.3
50-32-8	Benzo[a]pyrene	2200		14	7.0
205-99-2	Benzo[b]fluoranthene	3900		16	8.2
191-24-2	Benzo[g,h,i]perylene	920		27	5.9
207-08-9	Benzo[k]fluoranthene	1300		11	4.9
218-01-9	Chrysene	2300		12	6.1
53-70-3	Dibenz(a,h)anthracene	300		27	5.5
86-73-7	Fluorene	490		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	960		27	9.6
90-12-0	1-Methylnaphthalene	360		54	5.9
91-57-6	2-Methylnaphthalene	360		54	9.6
91-20-3	Naphthalene	470		54	5.9
85-01-8	Phenanthrene	4400		11	5.3
129-00-0	Pyrene	4200		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20016.D
Lab Smp Id: 680-88298-A-10-A Client Smp ID: CV1033A-CS
Inj Date : 20-MAR-2013 17:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-10-A
Misc Info : 680-88298-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	25.845	% 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	6.132	6.131	(1.000)	3645418	40.0000	
* 6	Acenaphthene-d10	164	7.812	7.805	(1.000)	2383529	40.0000	
* 9	Phenanthrene-d10	188	9.075	9.068	(1.000)	3939532	40.0000	
$ 13	o-Terphenyl	230	9.381	9.380	(1.034)	354349	5.81653	520
* 17	Chrysene-d12	240	11.431	11.413	(1.000)	4158893	40.0000	
* 22	Perylene-d12	264	13.323	13.281	(1.000)	3543087	40.0000	
2	Naphthalene	128	6.149	6.154	(1.003)	507324	5.20239	470
3	2-Methylnaphthalene	142	6.855	6.853	(1.118)	248448	3.99952	360
4	1-Methylnaphthalene	142	6.949	6.947	(1.133)	234209	4.02624	360
5	Acenaphthylene	152	7.677	7.682	(0.983)	193337	1.83983	160
7	Acenaphthene	154	7.836	7.835	(1.003)	401735	6.27001	560
8	Fluorene	166	8.276	8.275	(1.059)	403317	5.38757	480
10	Phenanthrene	178	9.099	9.092	(1.003)	5433604	48.5879	4400
11	Anthracene	178	9.134	9.133	(1.006)	1304178	11.6560	1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.269	9.268	(1.021)	824234	8.24040	740
14 Fluoranthene	202	10.092	10.073	(1.112)	7943255	68.0637	6100(A)
15 Pyrene	202	10.280	10.261	(0.899)	6065014	47.0138	4200
16 Benzo(a)anthracene	228	11.420	11.389	(0.999)	3312084	29.0888	2600
18 Chrysene	228	11.461	11.436	(1.003)	2999347	25.5155	2300
19 Benzo(b)fluoranthene	252	12.771	12.723	(0.959)	3911653	42.8917	3900
20 Benzo(k)fluoranthene	252	12.800	12.764	(0.961)	1415825	14.8273	1300
21 Benzo(a)pyrene	252	13.229	13.181	(0.993)	2187191	24.2353	2200
23 Indeno(1,2,3-cd)pyrene	276	14.963	14.903	(1.123)	1030932	10.7041	960(M)
24 Dibenzo(a,h)anthracene	278	14.980	14.932	(1.124)	299899	3.37170	300
25 Benzo(g,h,i)perylene	276	15.427	15.361	(1.158)	932596	10.1560	920

QC Flag Legend

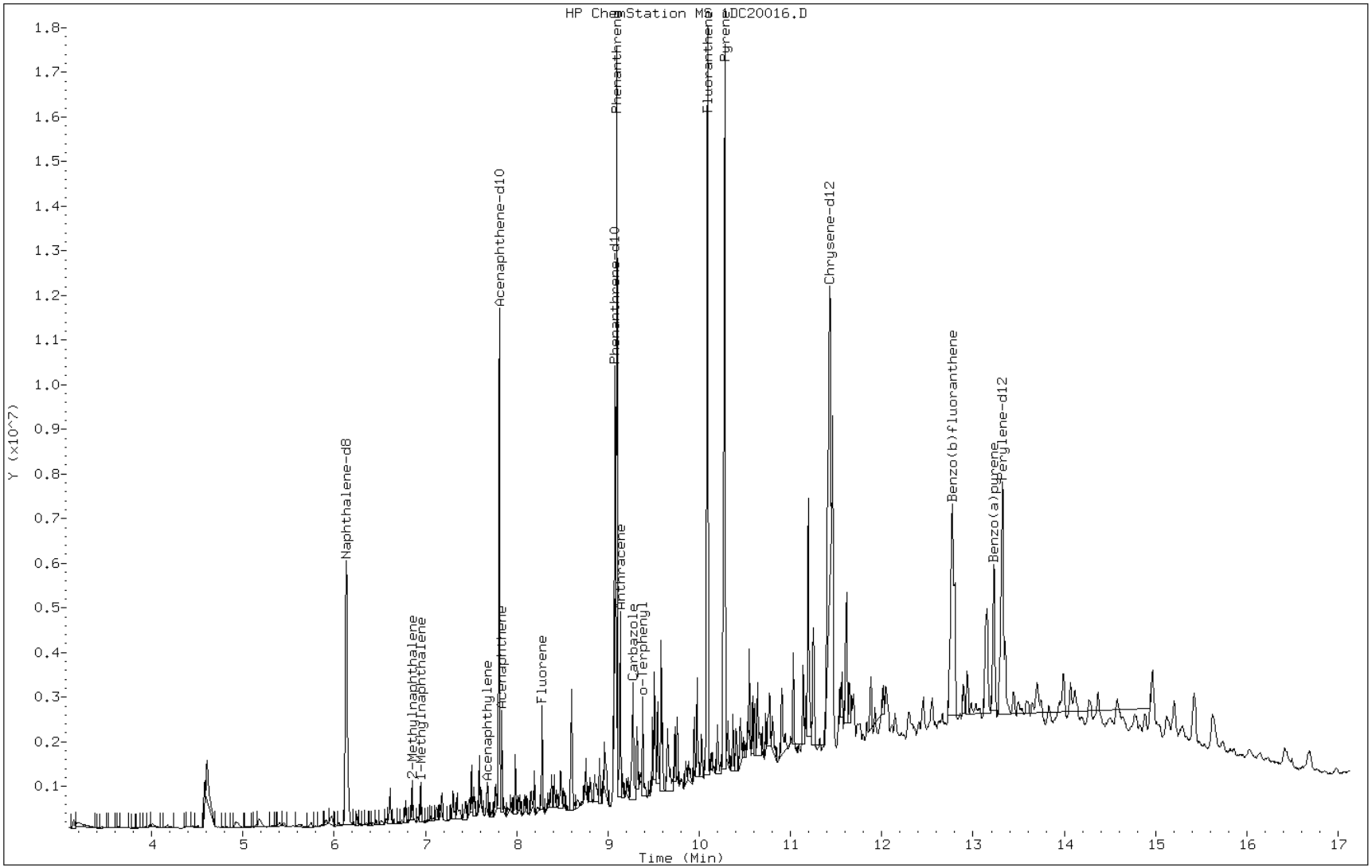
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC



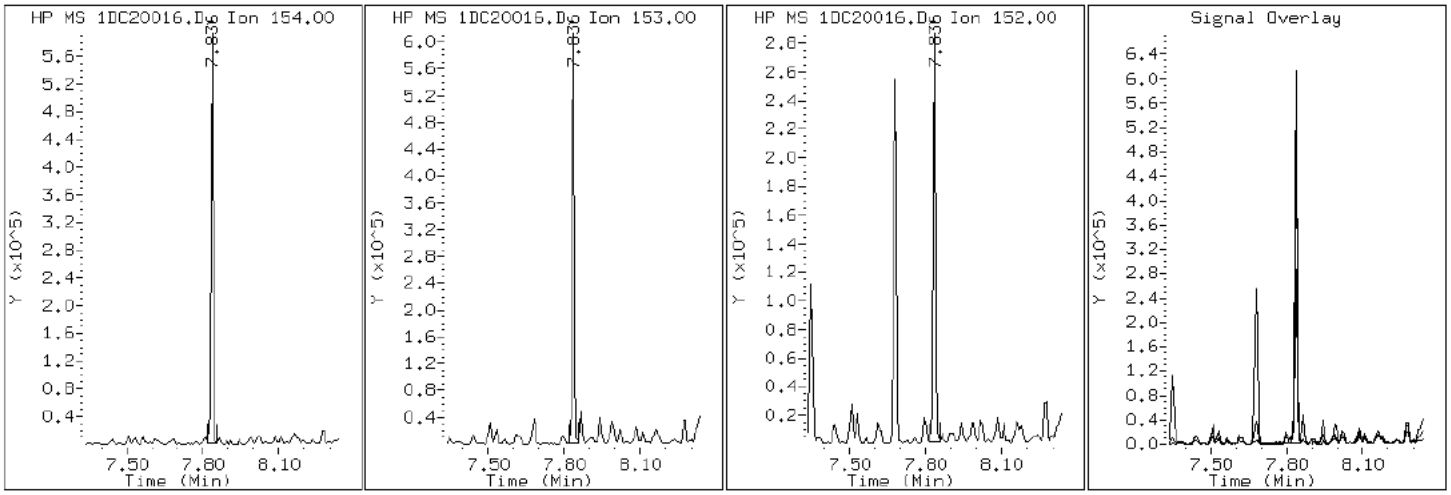
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

7 Acenaphthene



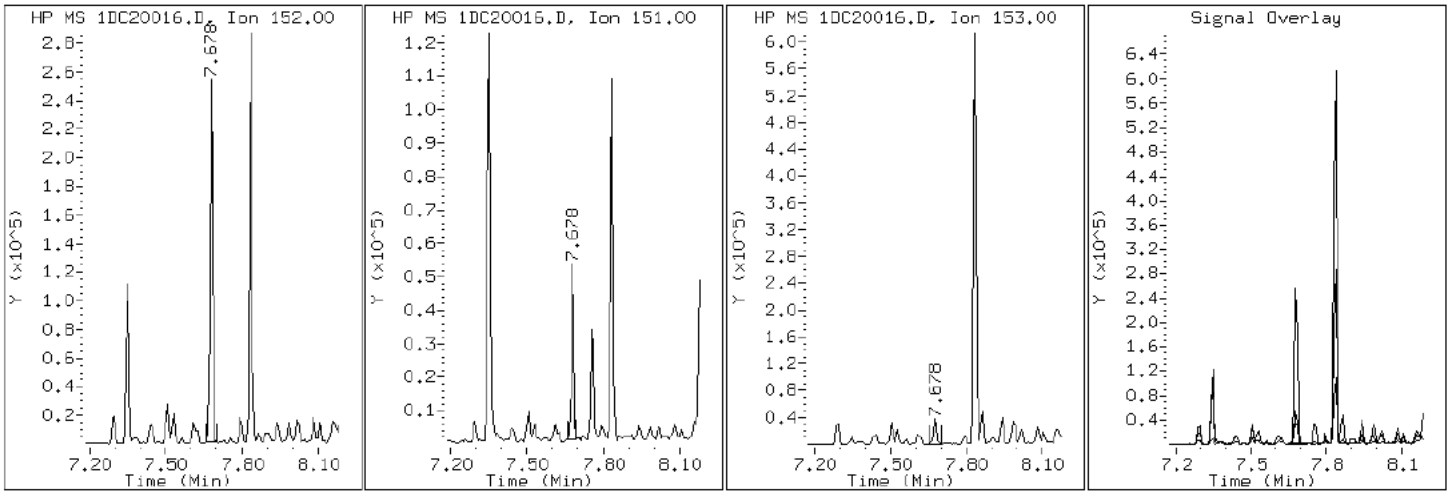
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

5 Acenaphthylene



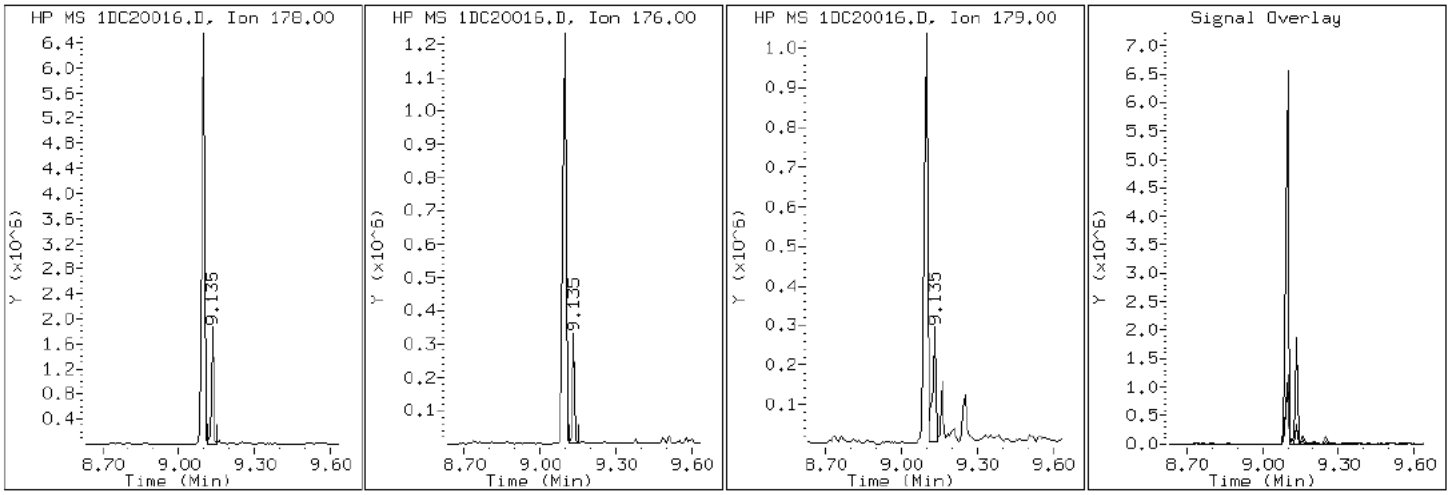
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

11 Anthracene



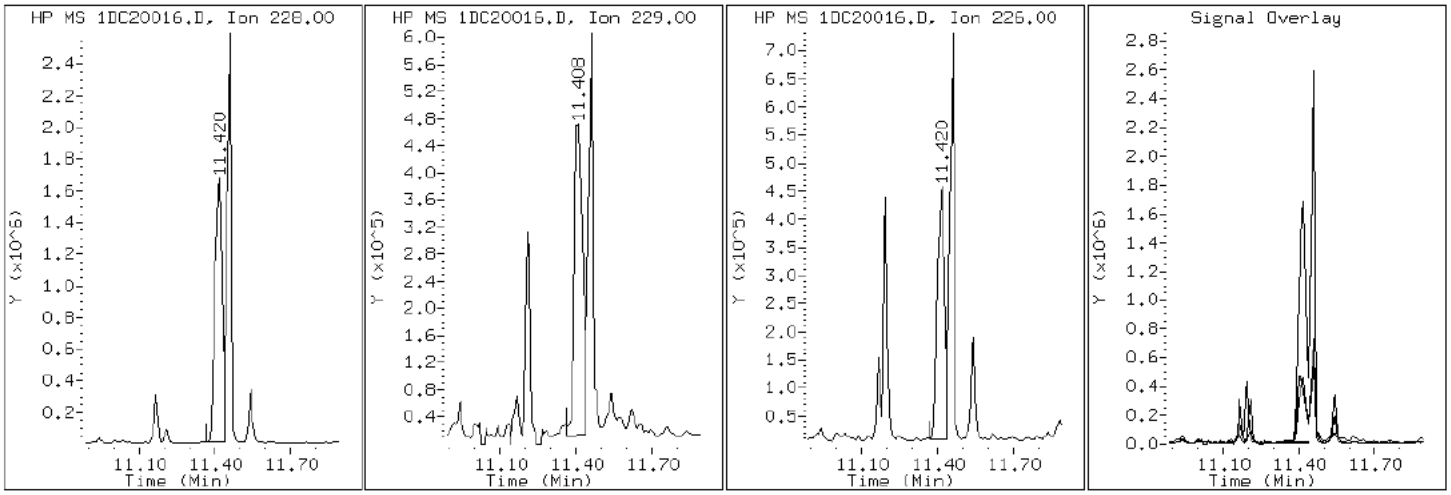
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

16 Benzo(a)anthracene



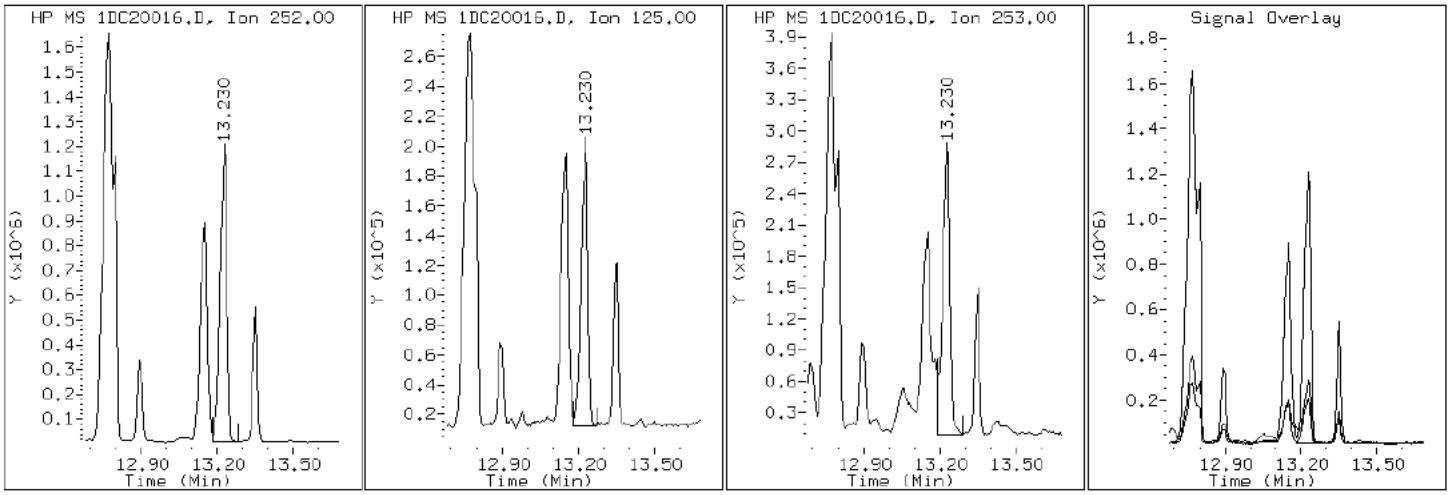
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

21 Benzo(a)pyrene



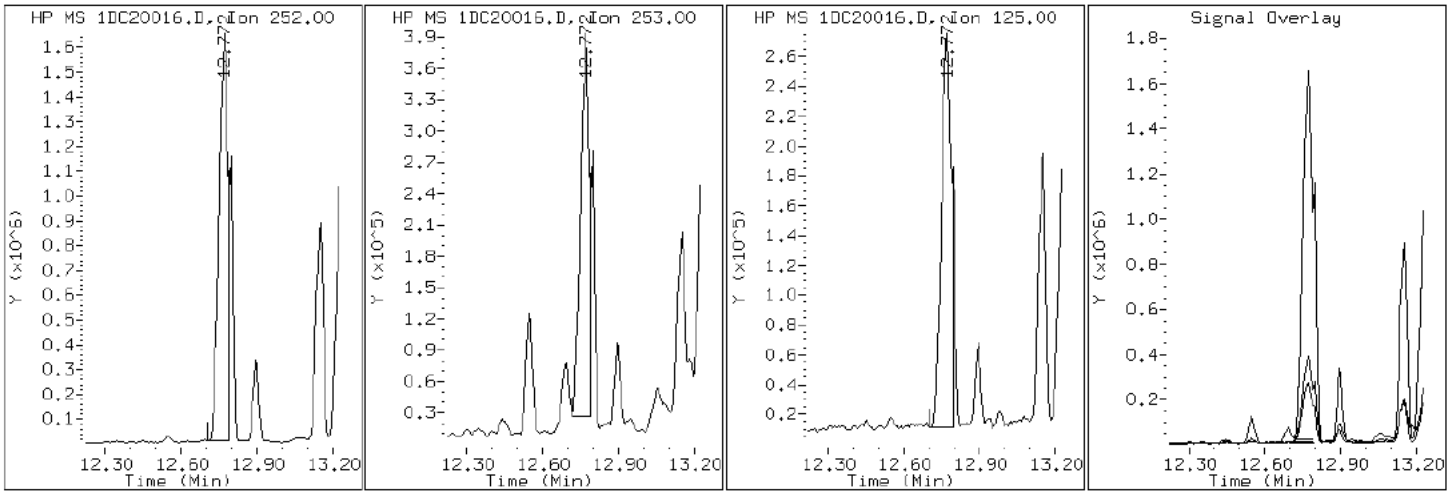
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

19 Benzo(b)fluoranthene



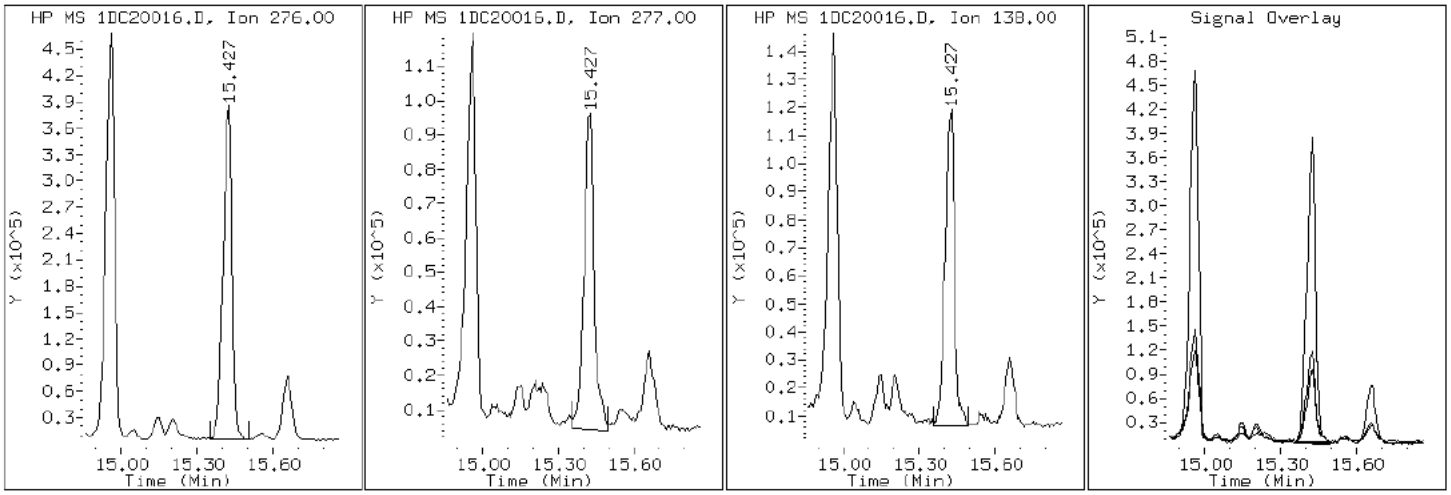
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

25 Benzo(g,h,i)perylene



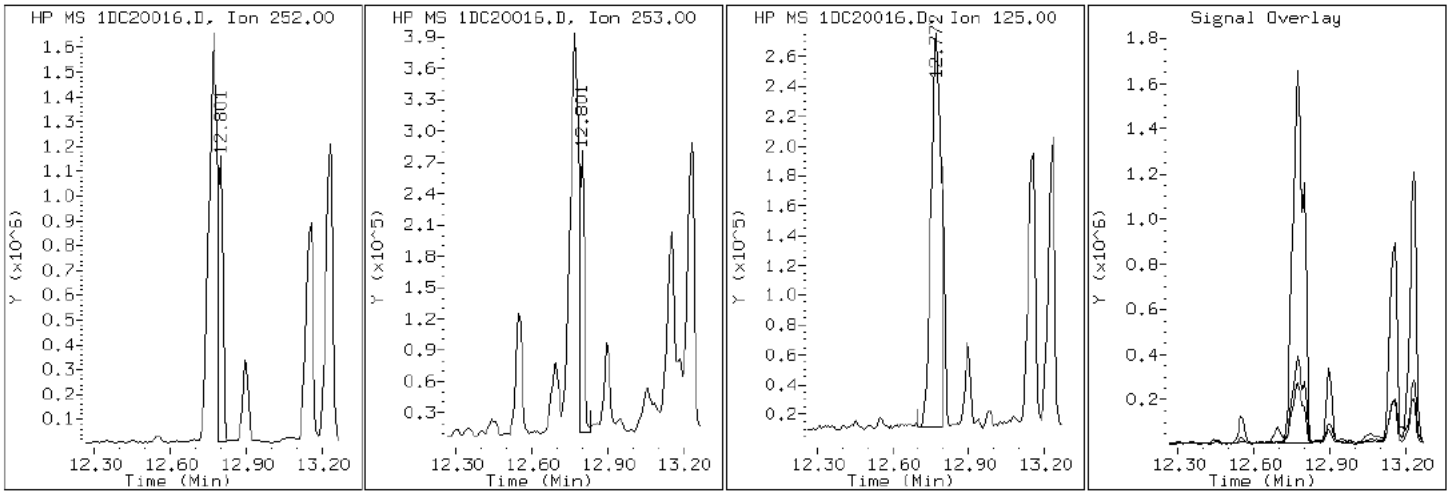
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

20 Benzo(k)fluoranthene



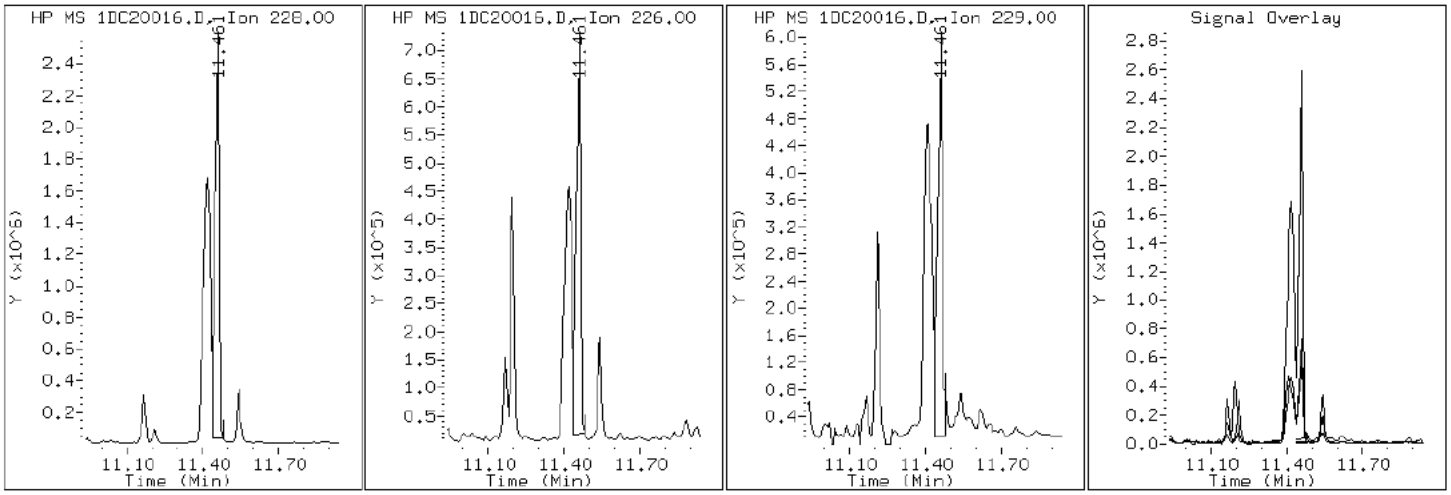
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

18 Chrysene



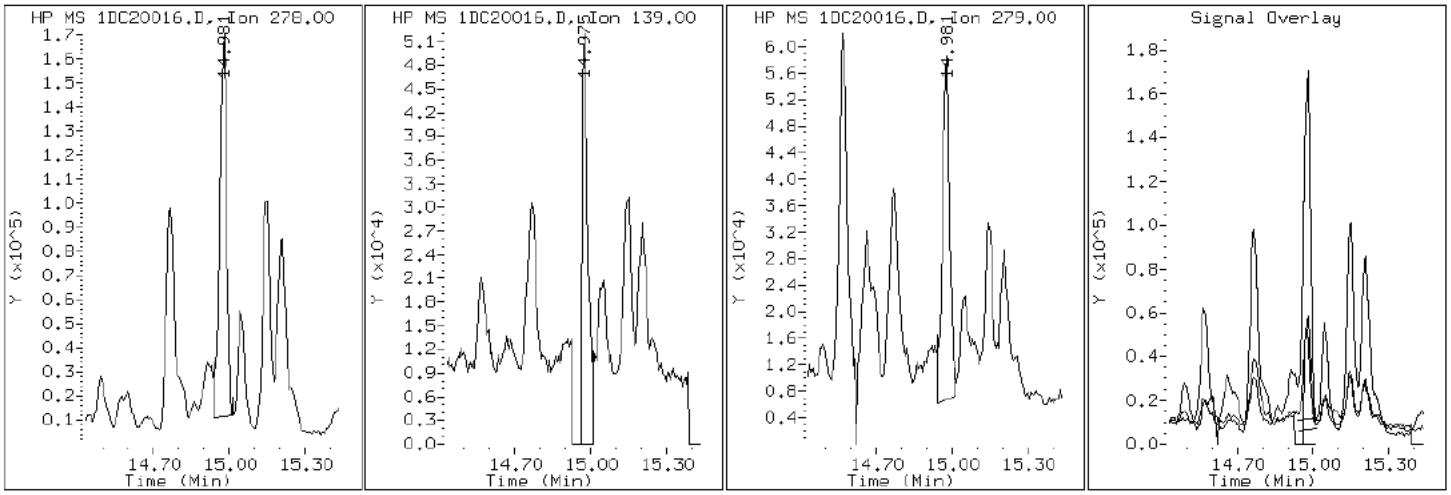
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

24 Dibenzo(a,h)anthracene



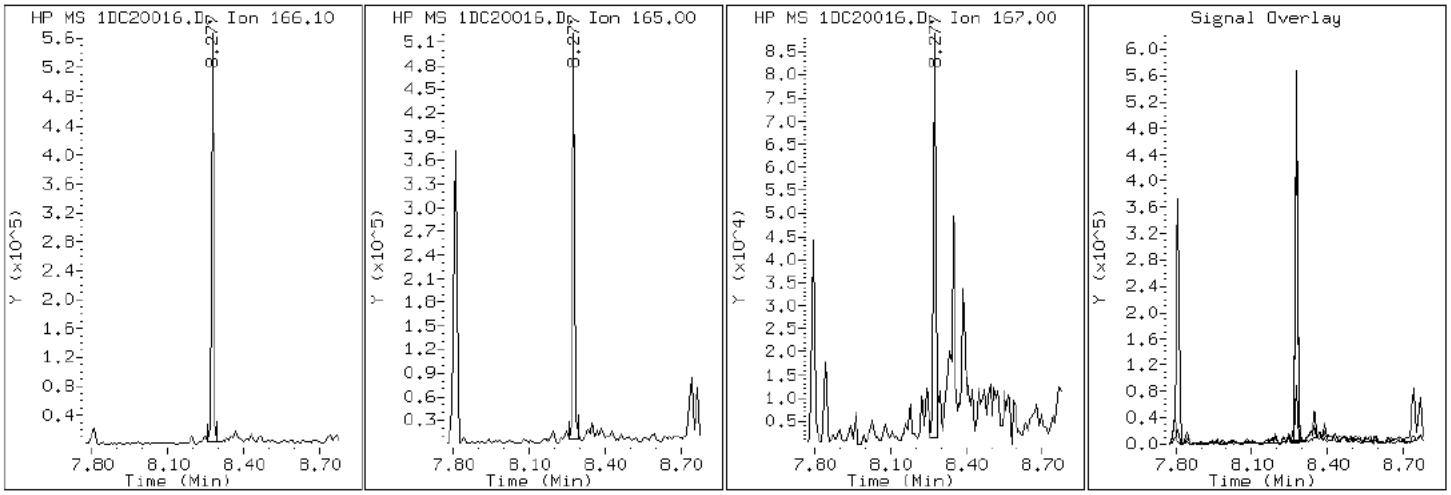
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

8 Fluorene



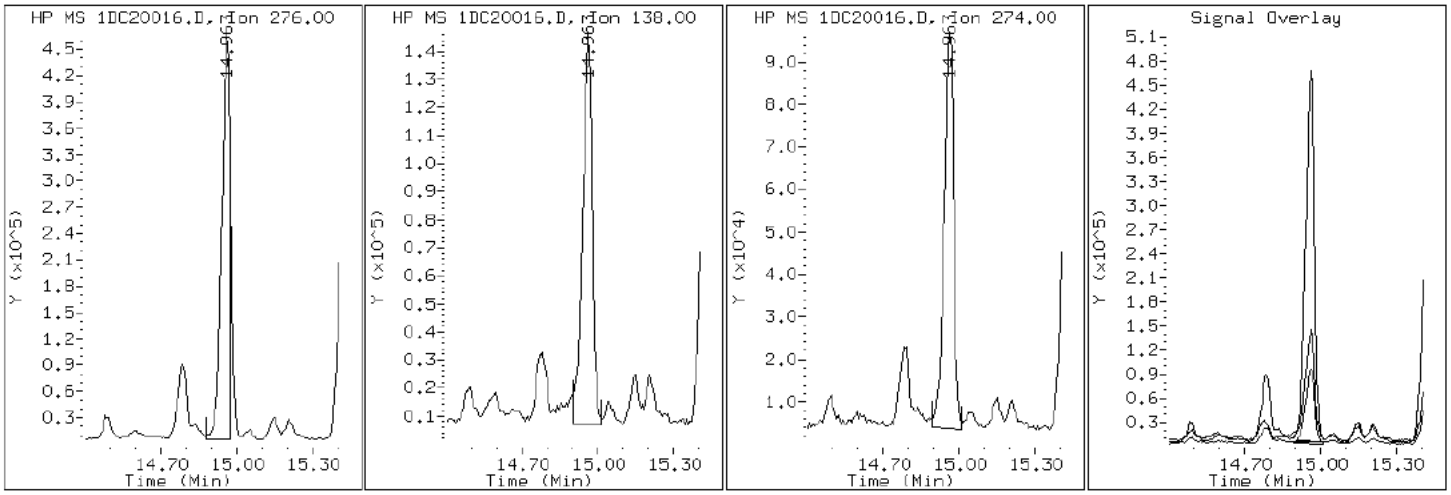
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

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



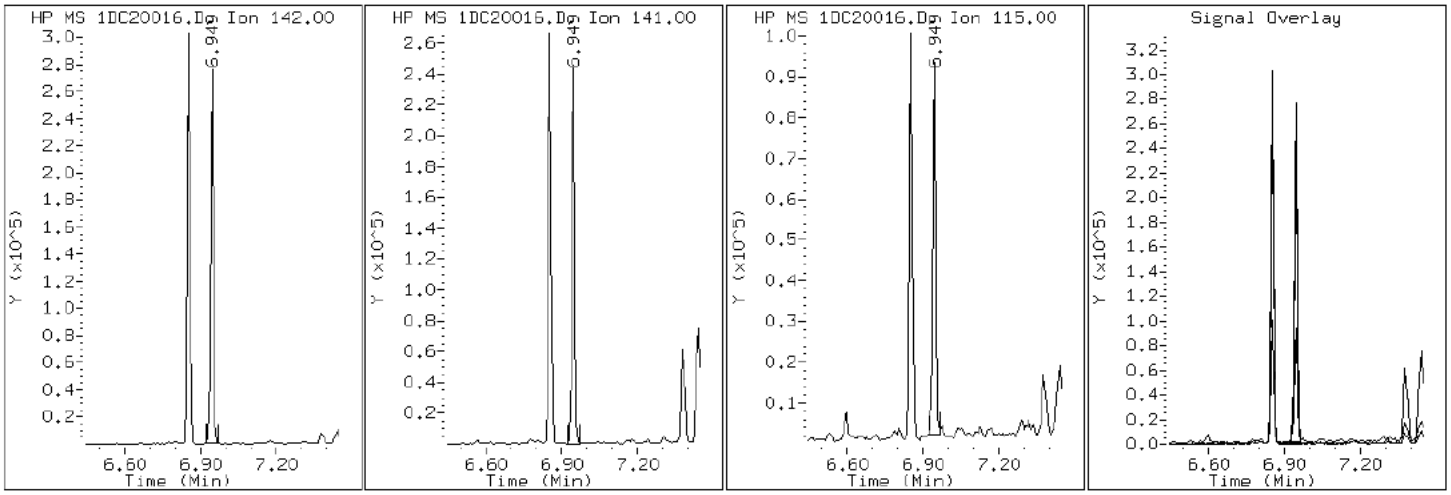
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

4 1-Methylnaphthalene



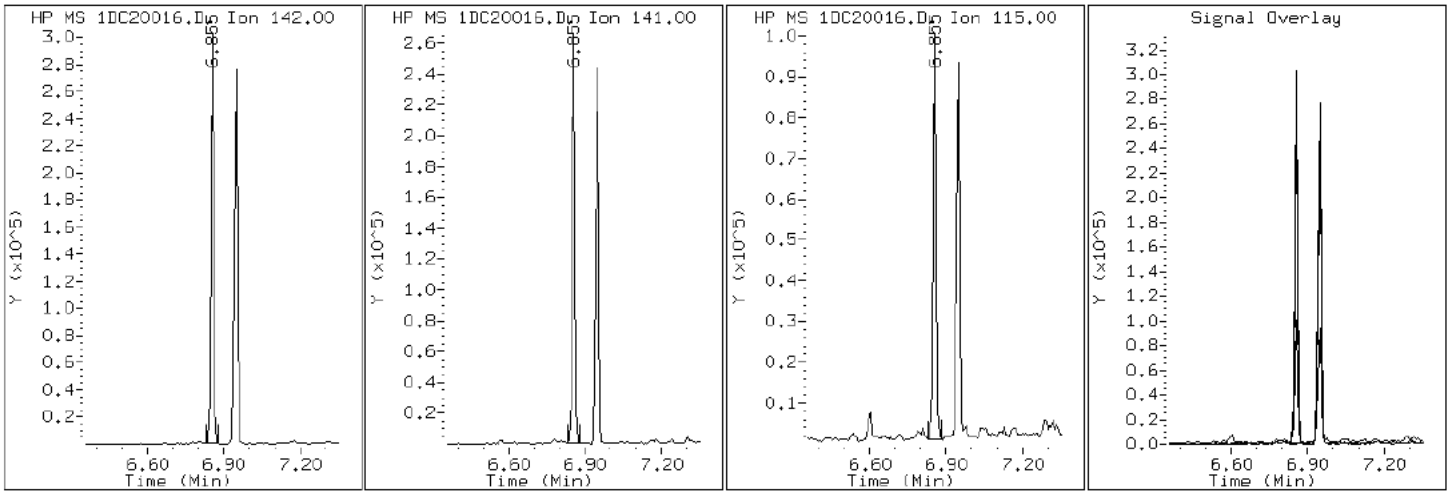
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

3 2-Methylnaphthalene



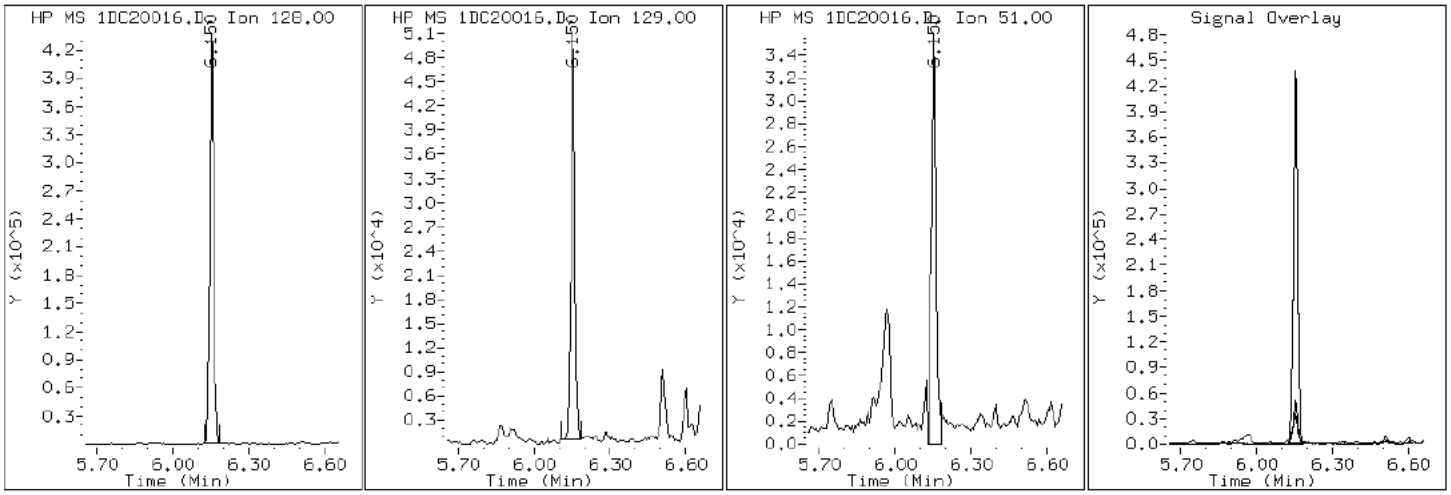
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

2 Naphthalene



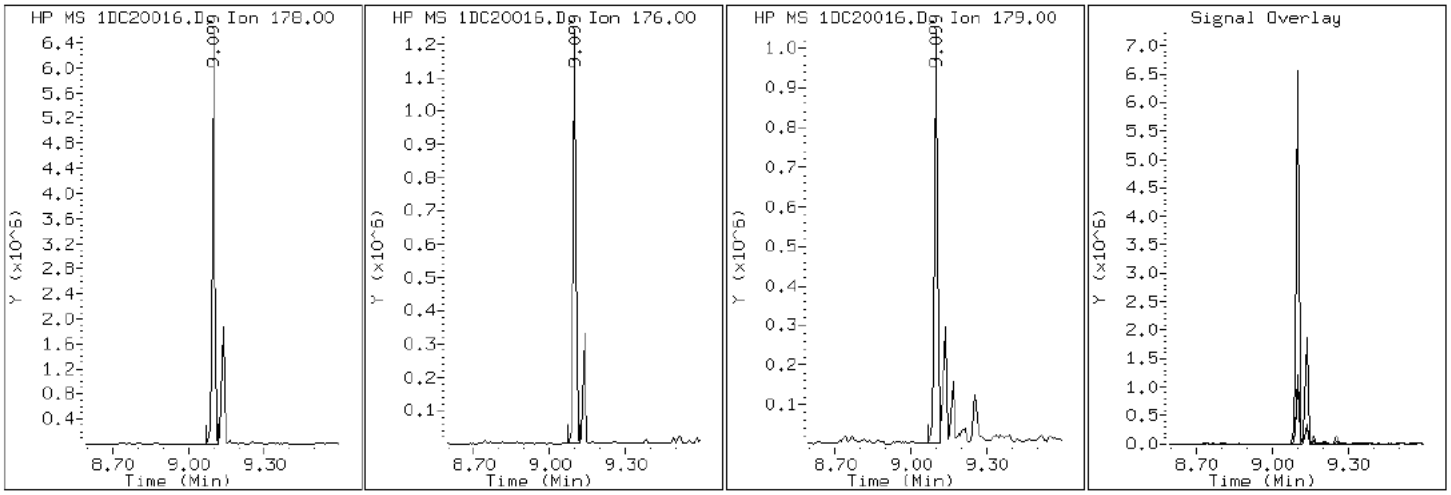
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

10 Phenanthrene



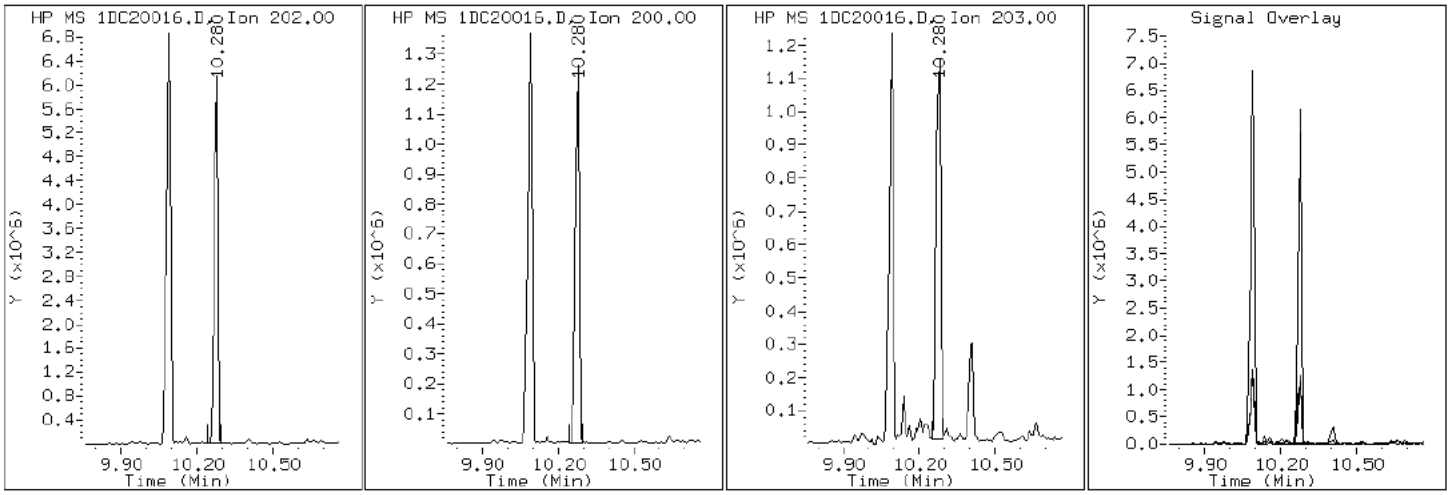
Data File: 1DC20016.D

Date: 20-MAR-2013 17:24

Client ID: CV1033A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-10-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20016.D
Inj. Date and Time: 20-MAR-2013 17:24
Instrument ID: BSMSD.i
Client ID: CV1033A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

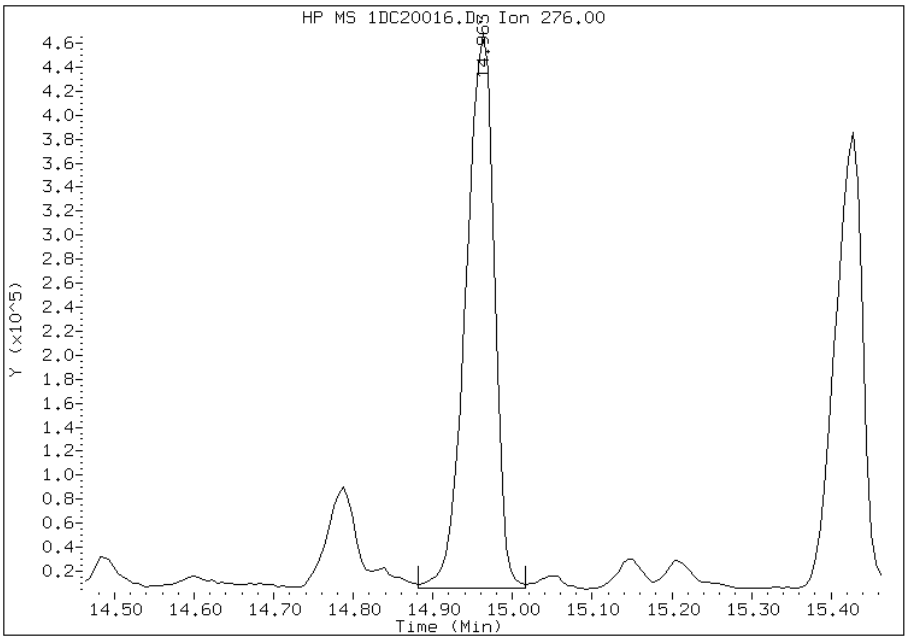
Processing Integration Results

RT: 14.96

Response: 1147666

Amount: 12

Conc: 1074



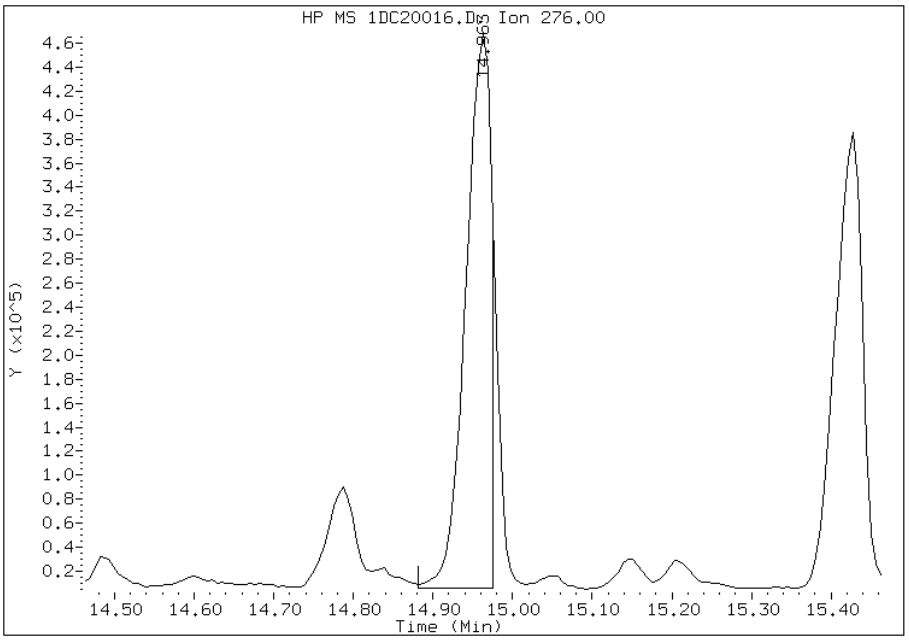
Manual Integration Results

RT: 14.96

Response: 1030932

Amount: 11

Conc: 965



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1033A-CS DL | Lab Sample ID: 680-88298-10 DL

Matrix: Solid | Lab File ID: 1CC21013.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:50

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 14.96(g) | Date Analyzed: 03/21/2013 14:37

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

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

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

Analysis Batch No.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	5000		110	22

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21013.D
Lab Smp Id: 680-88298-A-10-A Client Smp ID: CV1033A-CS
Inj Date : 21-MAR-2013 14:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-A-10-A
Misc Info : 680-88298-A-10-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.960	Weight Extracted
M	25.845	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.739	3.739	(1.000)	1198173	40.0000	
*	6 Acenaphthene-d10	164	4.827	4.827	(1.000)	933992	40.0000	
*	10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1760710	40.0000	
$	14 o-Terphenyl	230	6.027	6.027	(1.044)	34066	1.28146	462.0572
*	18 Chrysene-d12	240	7.715	7.715	(1.000)	1988295	40.0000	
*	23 Perylene-d12	264	8.903	8.898	(1.000)	1941475	40.0000	
	2 Naphthalene	128	3.751	3.751	(1.003)	37302	1.19585	431.1870
	3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	18101	0.86994	313.6763
	4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	16687	0.88057	317.5069
	5 Acenaphthylene	152	4.739	4.739	(0.982)	9844	0.26142	94.2610
	7 Acenaphthene	154	4.845	4.845	(1.004)	31768	1.35731	489.4069
	9 Fluorene	166	5.163	5.162	(1.069)	35976	1.21541	438.2398
	11 Phenanthrene	178	5.792	5.792	(1.003)	549770	10.7984	3893.6026
	12 Anthracene	178	5.821	5.821	(1.008)	113304	2.27557	820.5021

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.927	5.933	(1.026)	76536	1.72919	623.4944
15 Fluoranthene	202	6.627	6.627	(1.148)	775184	13.9035	5013.1805
16 Pyrene	202	6.792	6.792	(0.880)	598195	11.1953	4036.7055
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	351374	6.12299	2207.7695
19 Chrysene	228	7.733	7.733	(1.002)	325408	5.66625	2043.0842
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.961)	551581	10.8712	3919.8249
21 Benzo(k)fluoranthene	252	8.598	8.574	(0.966)	601	0.01155	4.1634(aQ)
22 Benzo(a)pyrene	252	8.845	8.845	(0.993)	266937	5.41639	1952.9917
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.131)	178566	3.85160	1388.7737
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.133)	47176	1.04031	375.1047
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	183045	3.77428	1360.8931

QC Flag Legend

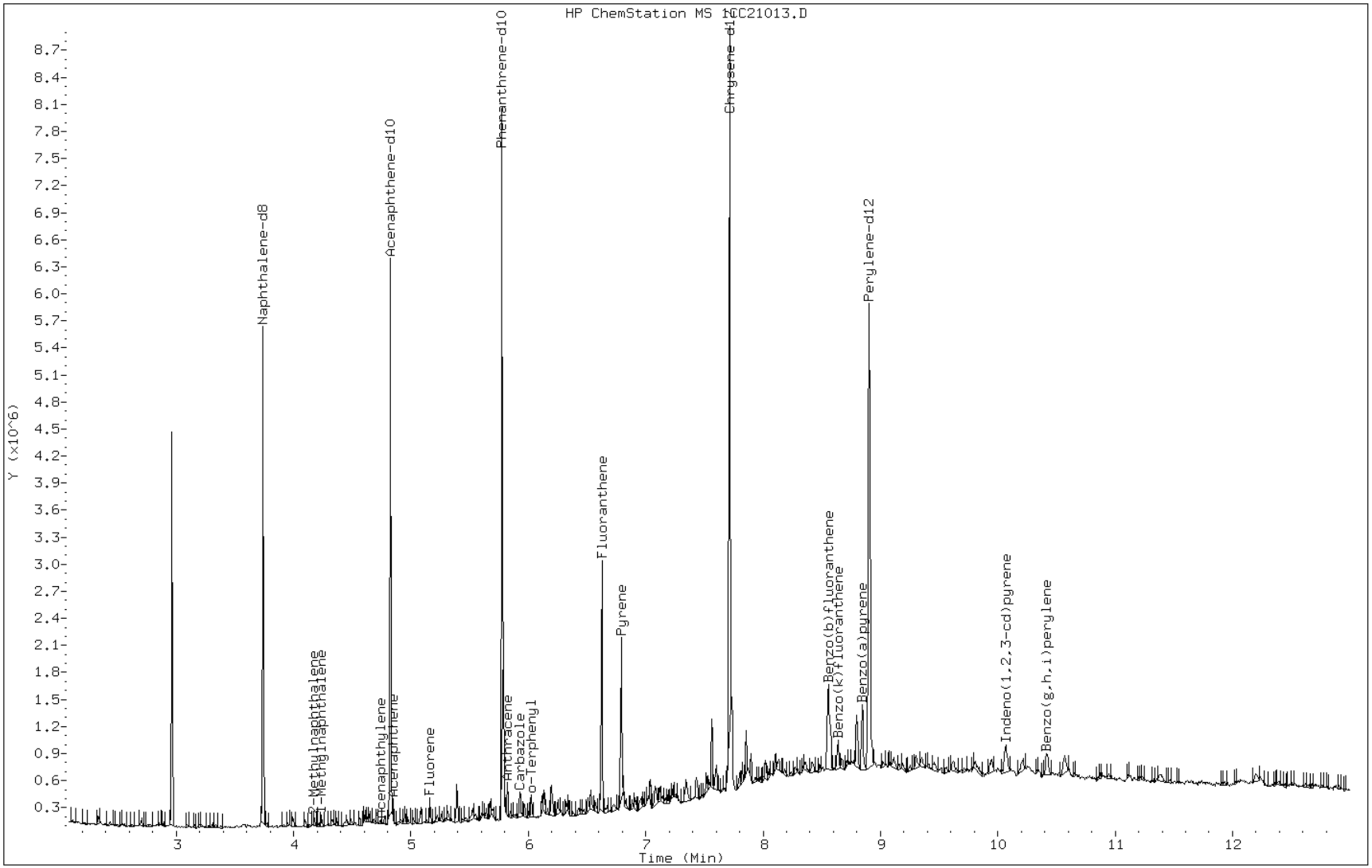
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: 1CC21013.D

Date: 21-MAR-2013 14:37

Client ID: CV1033A-CS Instrument: BSMC5973.i

Sample Info: 680-88298-A-10-A Operator: SCC



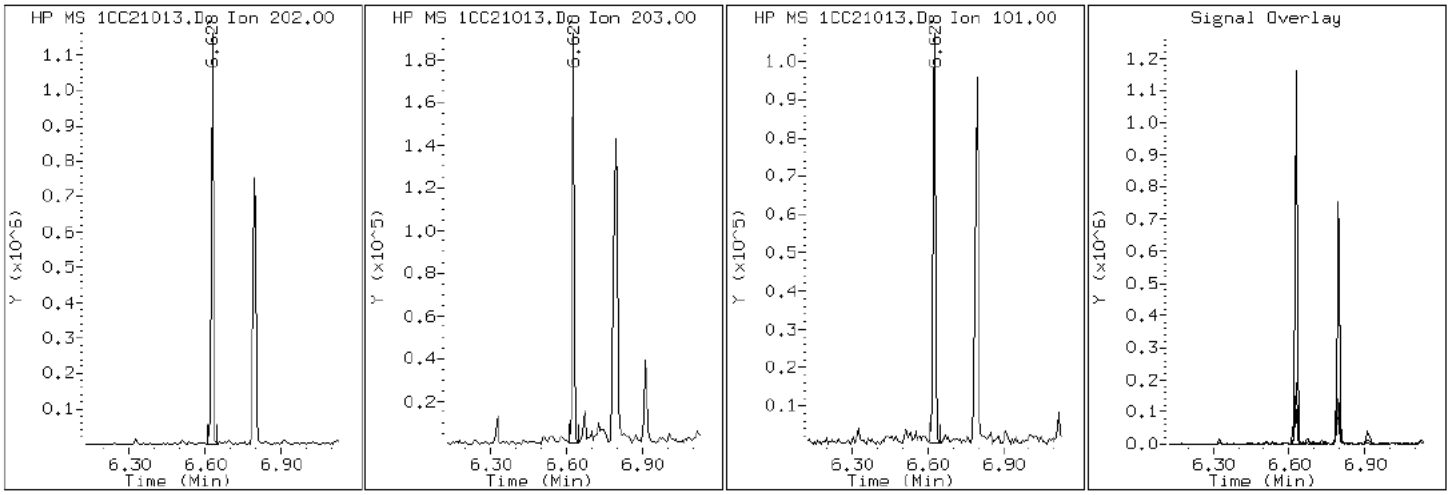
Data File: 1CC21013.D

Date: 21-MAR-2013 14:37

Client ID: CV1033A-CS Instrument: BSMC5973.i

Sample Info: 680-88298-A-10-A Operator: SCC

15 Fluoranthene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1149A-CS | Lab Sample ID: 680-88298-11

Matrix: Solid | Lab File ID: 1DC20017.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 13:05

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.29(g) | Date Analyzed: 03/20/2013 17:47

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.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	J	530	110
208-96-8	Acenaphthylene	120	J	210	27
120-12-7	Anthracene	340		45	22
56-55-3	Benzo[a]anthracene	1300		43	21
50-32-8	Benzo[a]pyrene	1100		55	28
205-99-2	Benzo[b]fluoranthene	1900		65	32
191-24-2	Benzo[g,h,i]perylene	500		110	23
207-08-9	Benzo[k]fluoranthene	590		43	19
218-01-9	Chrysene	1400		48	24
53-70-3	Dibenz(a,h)anthracene	180		110	22
206-44-0	Fluoranthene	2700		110	21
86-73-7	Fluorene	120		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	500		110	38
90-12-0	1-Methylnaphthalene	270		210	23
91-57-6	2-Methylnaphthalene	310		210	38
91-20-3	Naphthalene	260		210	23
85-01-8	Phenanthrene	1800		43	21
129-00-0	Pyrene	1900		110	20

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20017.D
Lab Smp Id: 680-88298-A-11-A Client Smp ID: CV1149A-CS
Inj Date : 20-MAR-2013 17:47
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-11-A
Misc Info : 680-88298-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.290	Weight Extracted
M	26.180	% 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	6.137	6.131	(1.000)	3077427	40.0000	
* 6	Acenaphthene-d10	164	7.811	7.805	(1.000)	1994073	40.0000	
* 9	Phenanthrene-d10	188	9.075	9.068	(1.000)	3288895	40.0000	
$ 13	o-Terphenyl	230	9.380	9.380	(1.034)	110847	2.17947	770
* 17	Chrysene-d12	240	11.419	11.413	(1.000)	3444310	40.0000	
* 22	Perylene-d12	264	13.293	13.281	(1.000)	3181709	40.0000	
2	Naphthalene	128	6.154	6.154	(1.003)	61472	0.74671	260
3	2-Methylnaphthalene	142	6.854	6.853	(1.117)	46232	0.88161	310
4	1-Methylnaphthalene	142	6.948	6.947	(1.132)	36846	0.75032	260
5	Acenaphthylene	152	7.682	7.682	(0.983)	30748	0.34975	120
7	Acenaphthene	154	7.835	7.835	(1.003)	17974	0.33531	120
8	Fluorene	166	8.275	8.275	(1.059)	20682	0.33023	120
10	Phenanthrene	178	9.092	9.092	(1.002)	468170	5.01463	1800
11	Anthracene	178	9.127	9.133	(1.006)	90117	0.96475	340

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.268	9.268	(1.021)	52798	0.63228	220
14 Fluoranthene	202	10.079	10.073	(1.111)	740871	7.60421	2700
15 Pyrene	202	10.267	10.261	(0.899)	585414	5.47939	1900
16 Benzo(a)anthracene	228	11.401	11.389	(0.998)	335252	3.55525	1200
18 Chrysene	228	11.436	11.436	(1.002)	387841	3.98389	1400
19 Benzo(b)fluoranthene	252	12.729	12.723	(0.958)	439963	5.37218	1900
20 Benzo(k)fluoranthene	252	12.758	12.764	(0.960)	142925	1.66679	590
21 Benzo(a)pyrene	252	13.187	13.181	(0.992)	245423	3.02829	1100
23 Indeno(1,2,3-cd)pyrene	276	14.897	14.903	(1.121)	121372	1.40334	500(M)
24 Dibenzo(a,h)anthracene	278	14.921	14.932	(1.122)	40641	0.50881	180
25 Benzo(g,h,i)perylene	276	15.349	15.361	(1.155)	117366	1.42329	500

QC Flag Legend

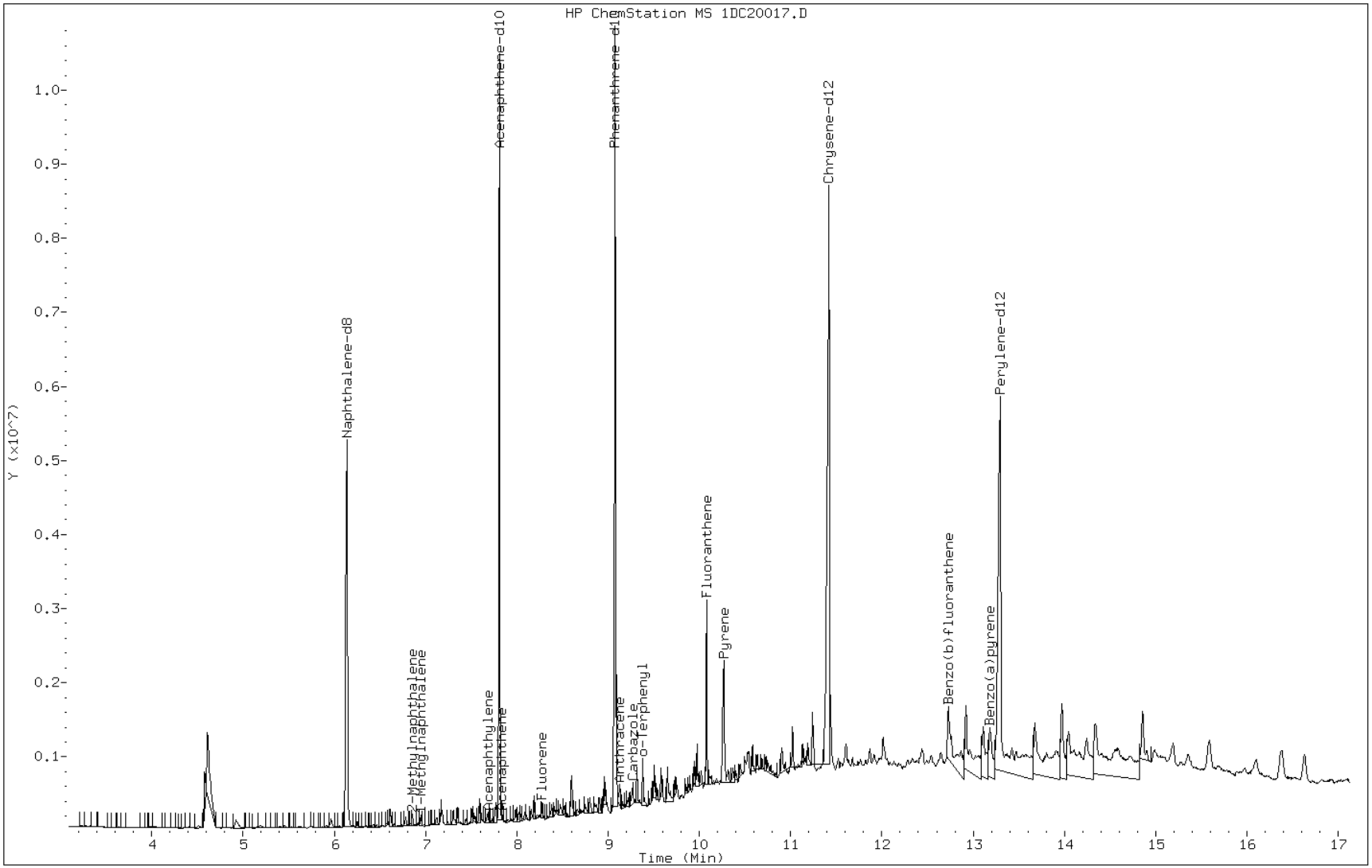
M - Compound response manually integrated.

Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC



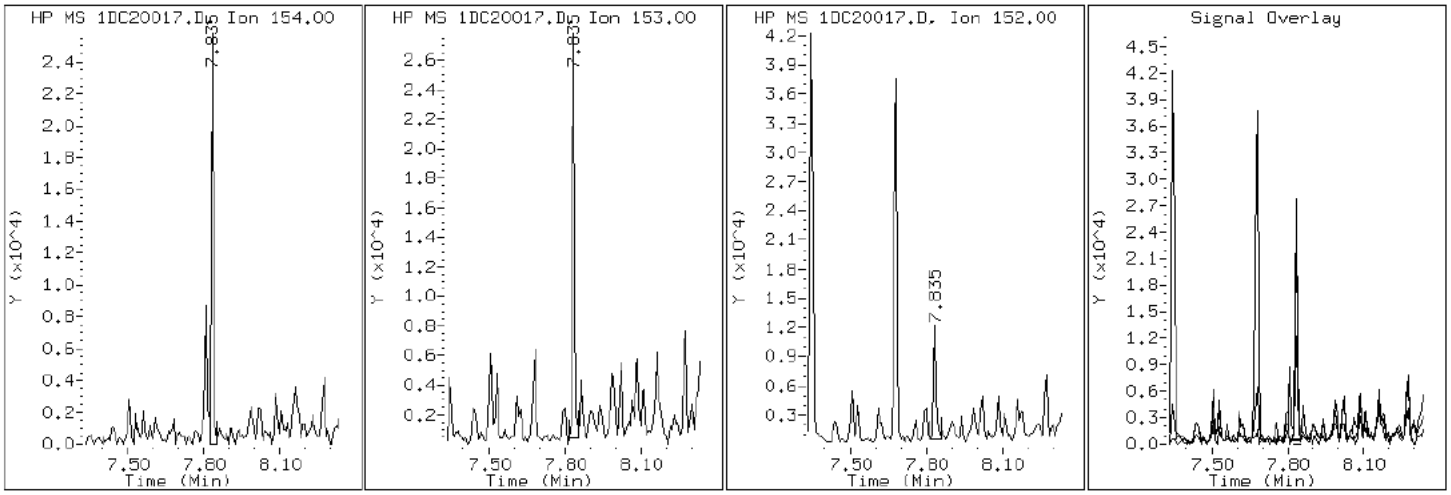
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

7 Acenaphthene



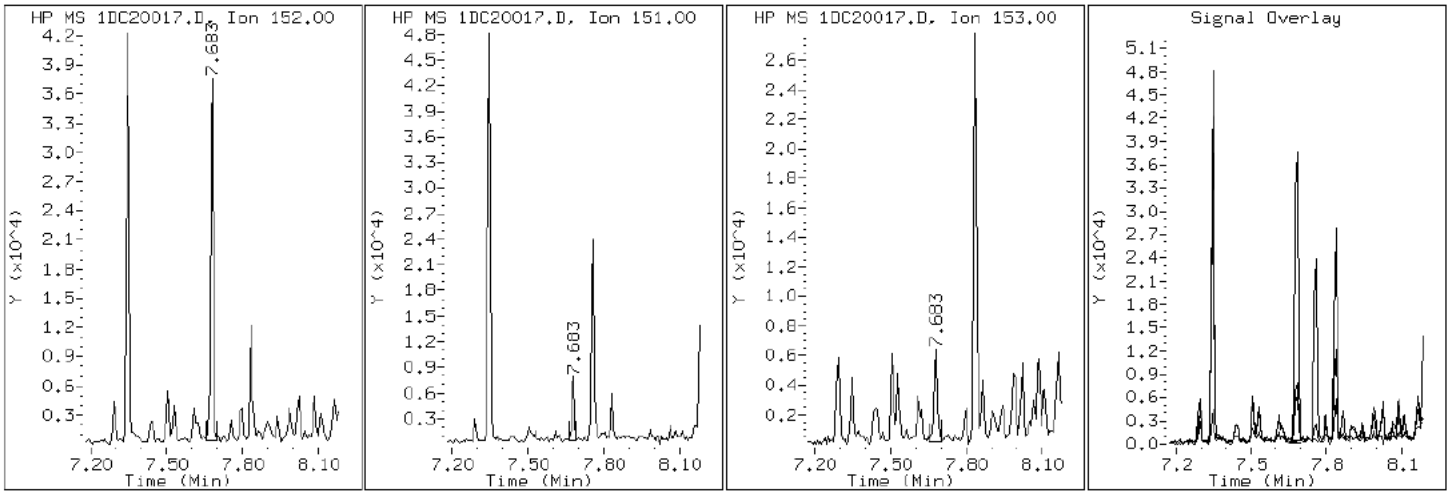
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

5 Acenaphthylene



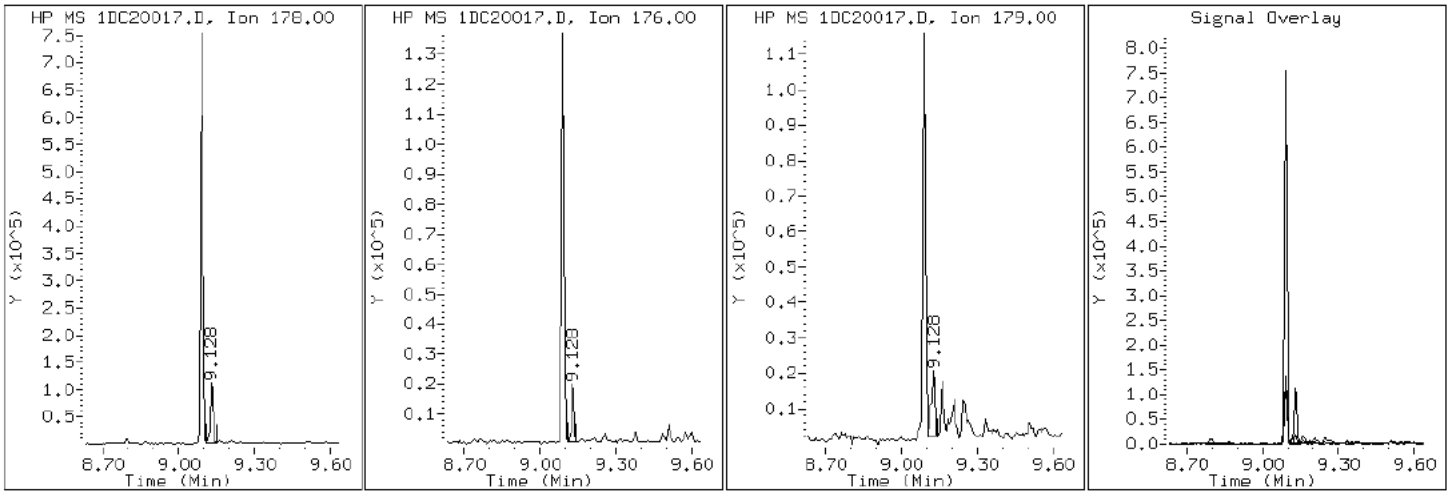
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

11 Anthracene



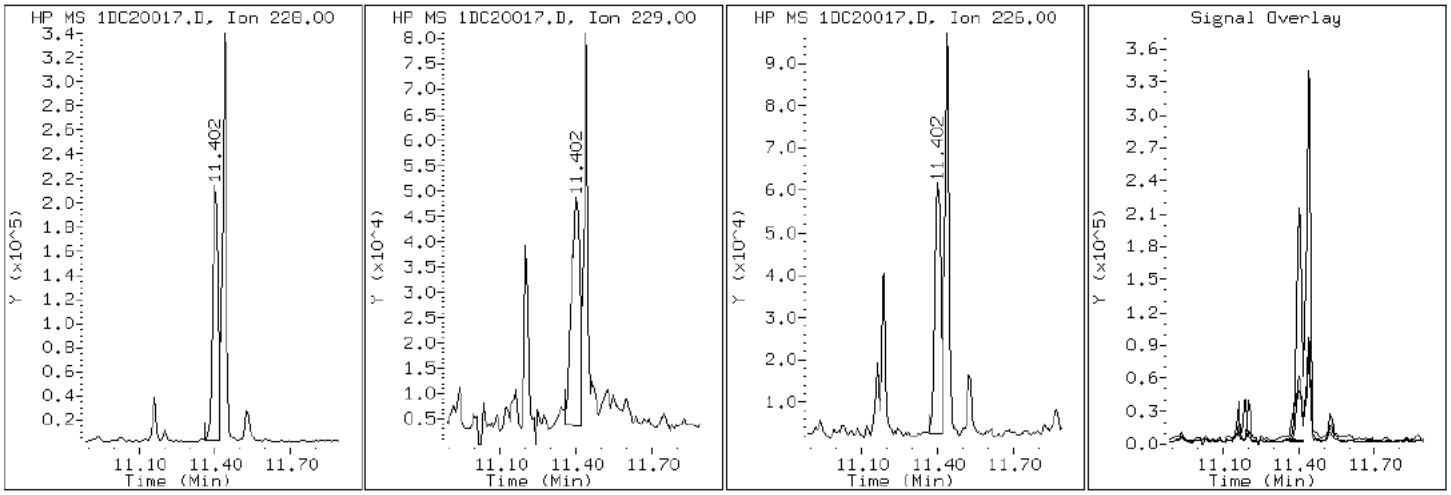
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

16 Benzo(a)anthracene



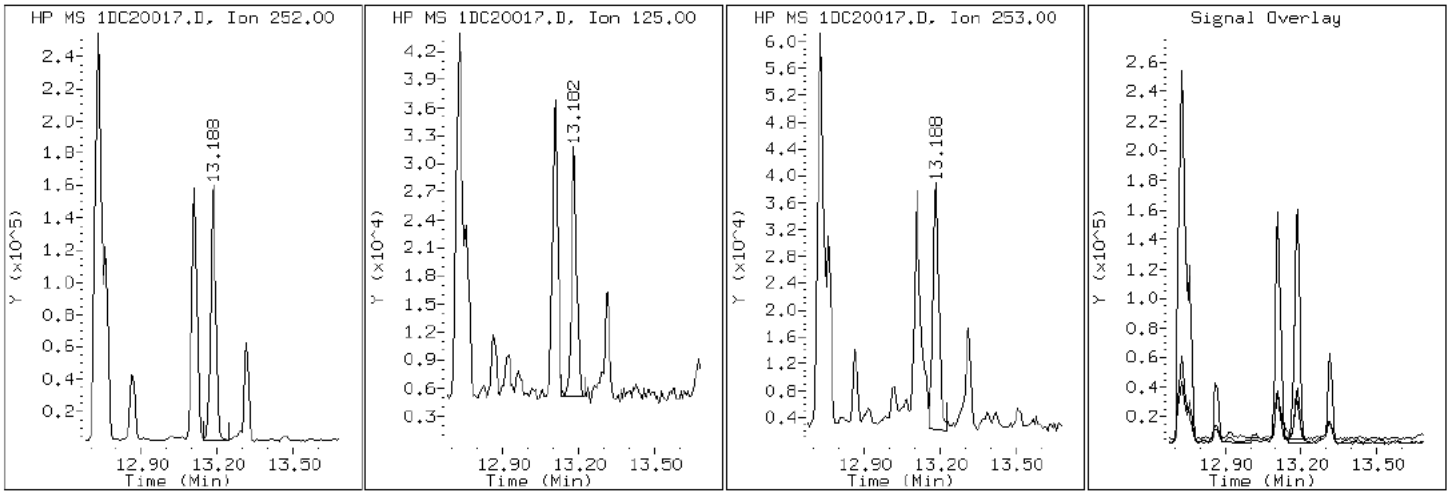
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

21 Benzo(a)pyrene



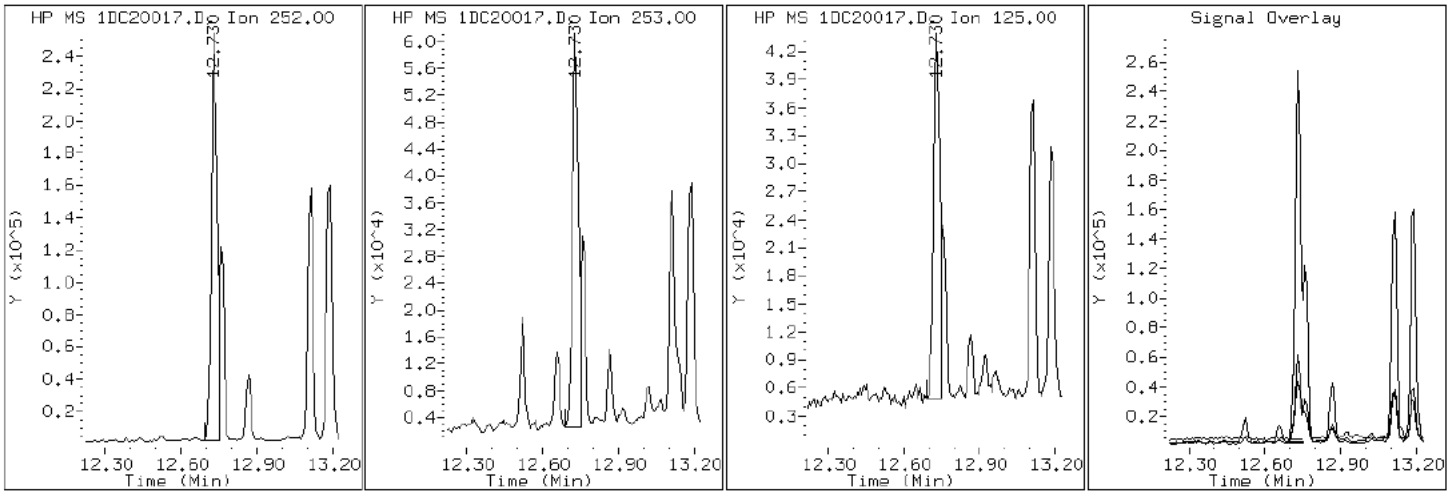
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

19 Benzo(b)fluoranthene



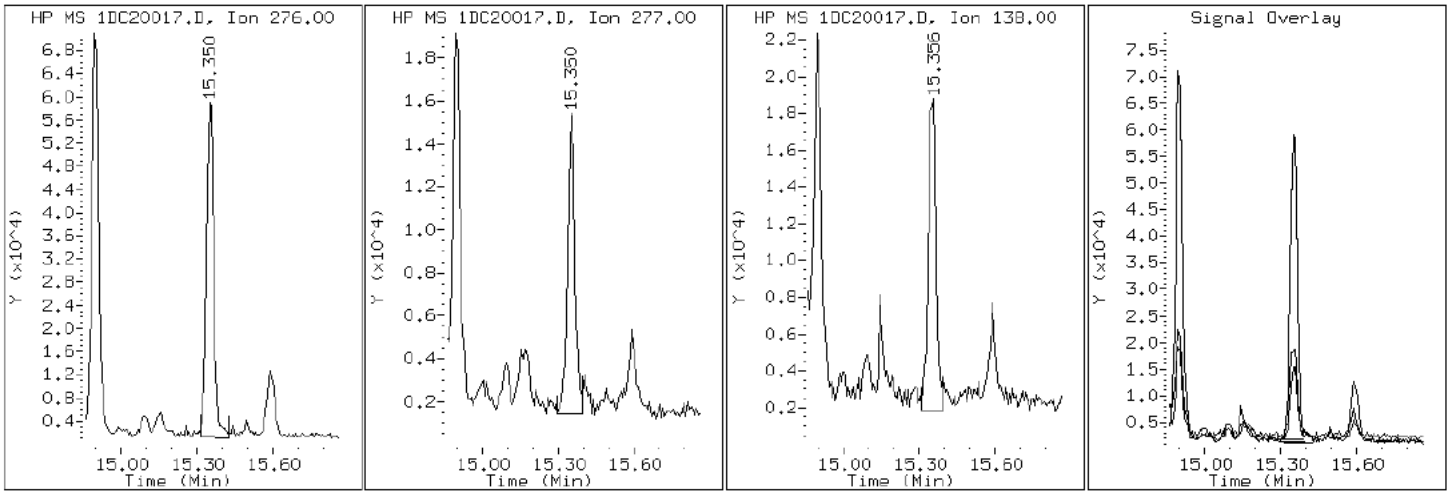
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

25 Benzo(g,h,i)perylene



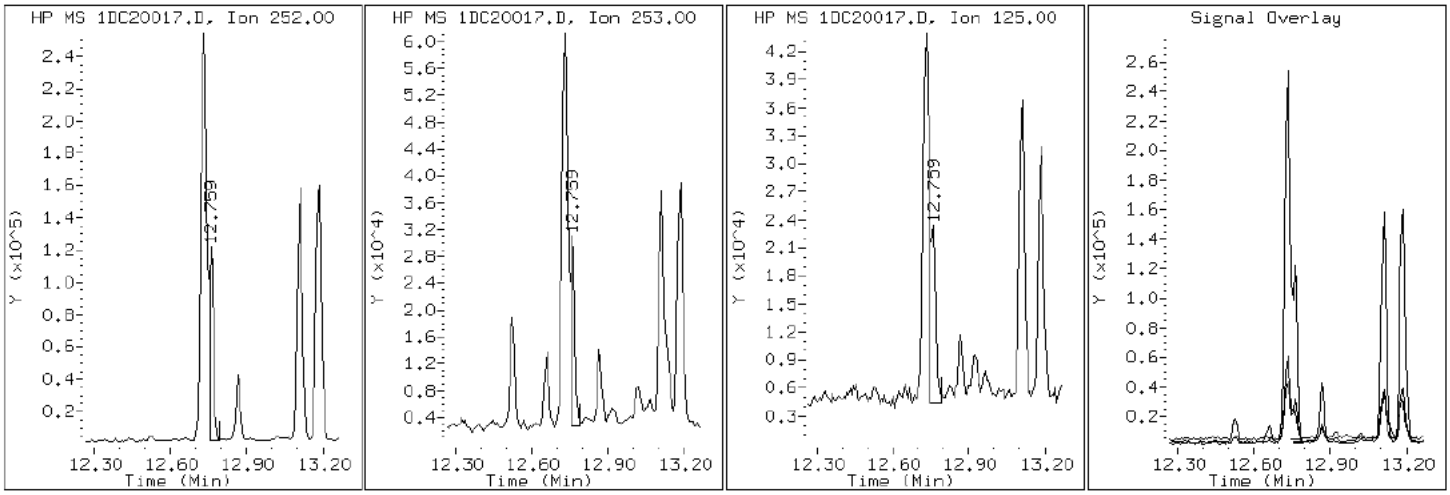
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

20 Benzo(k)fluoranthene



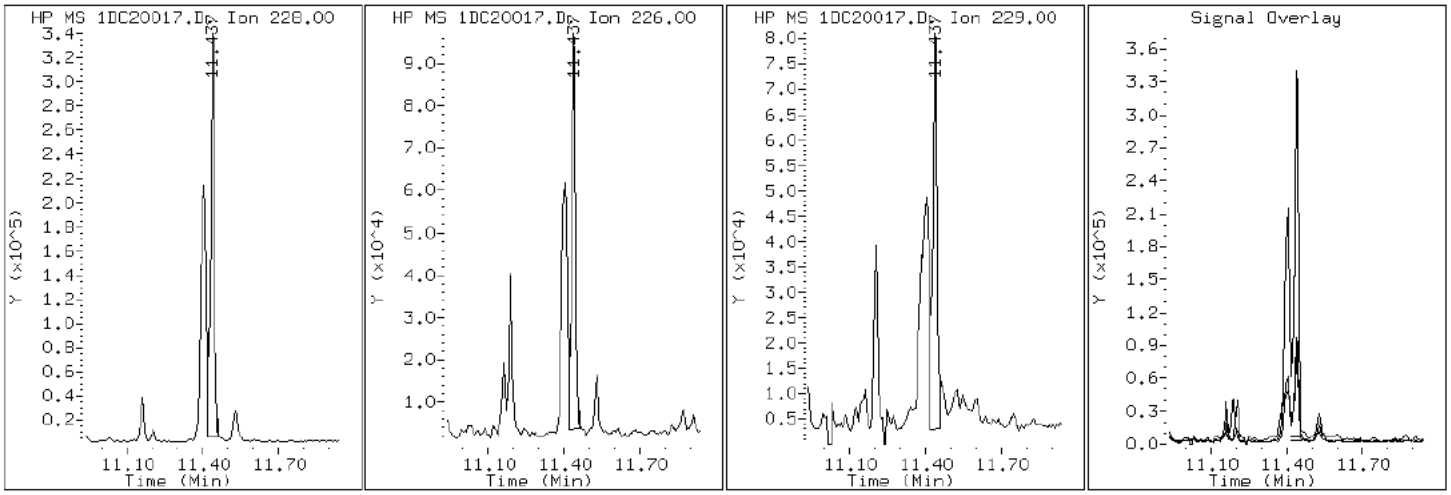
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

18 Chrysene



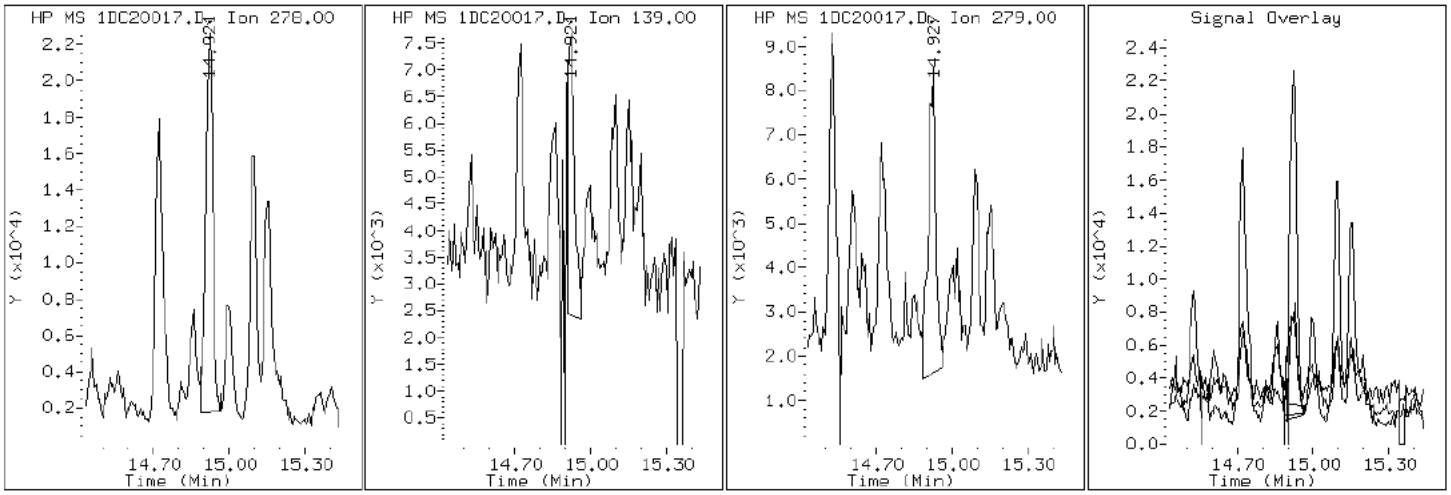
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

24 Dibenzo(a,h)anthracene



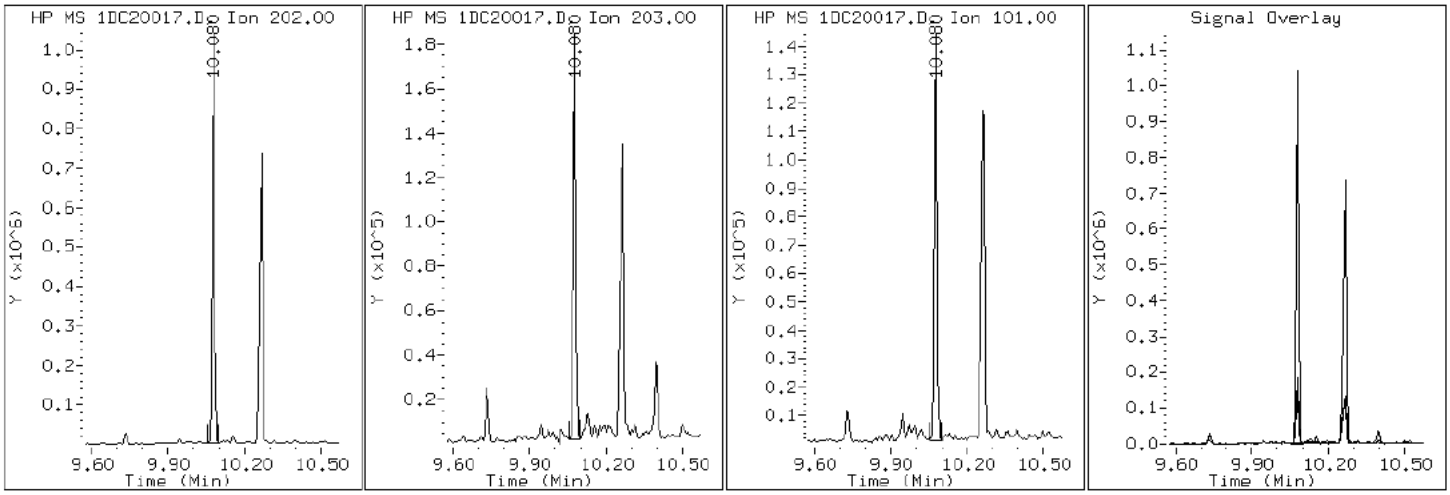
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

14 Fluoranthene



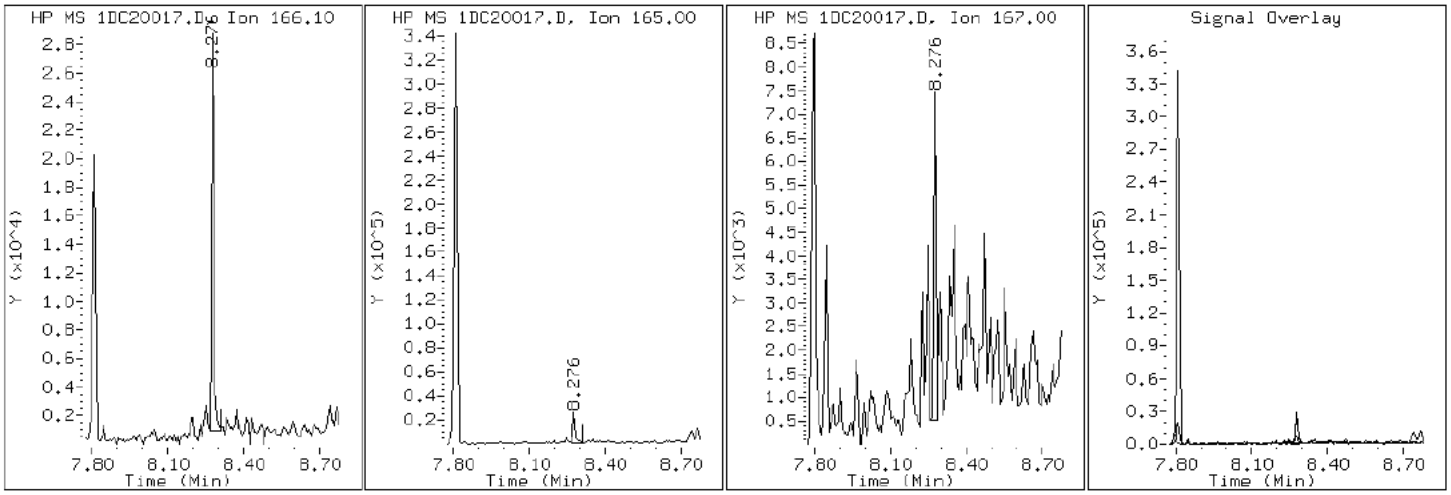
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

8 Fluorene



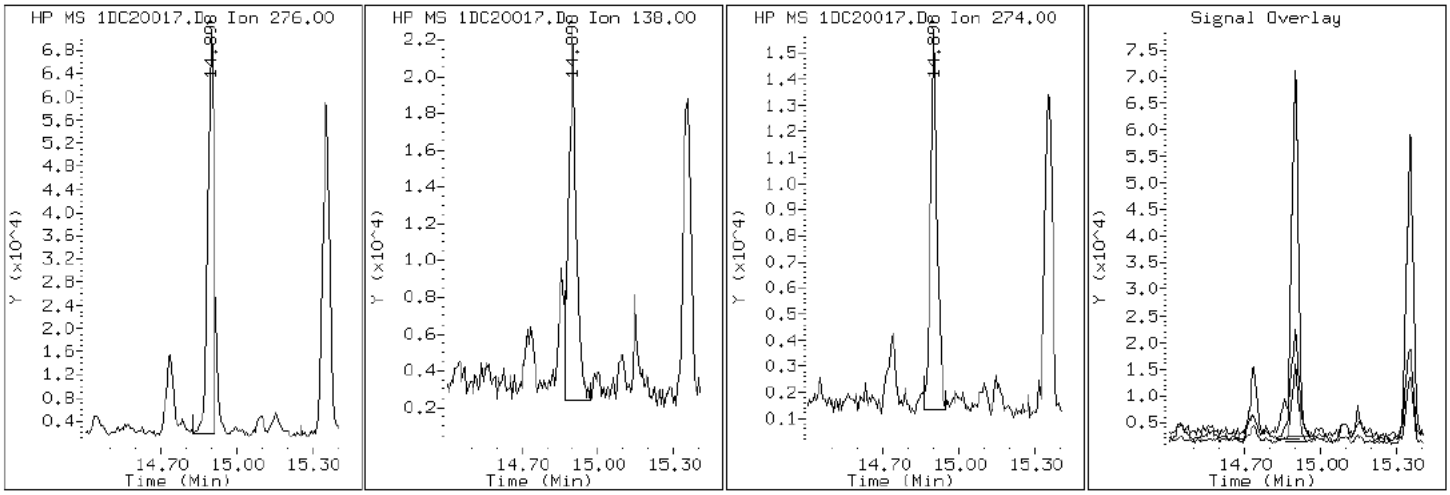
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

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



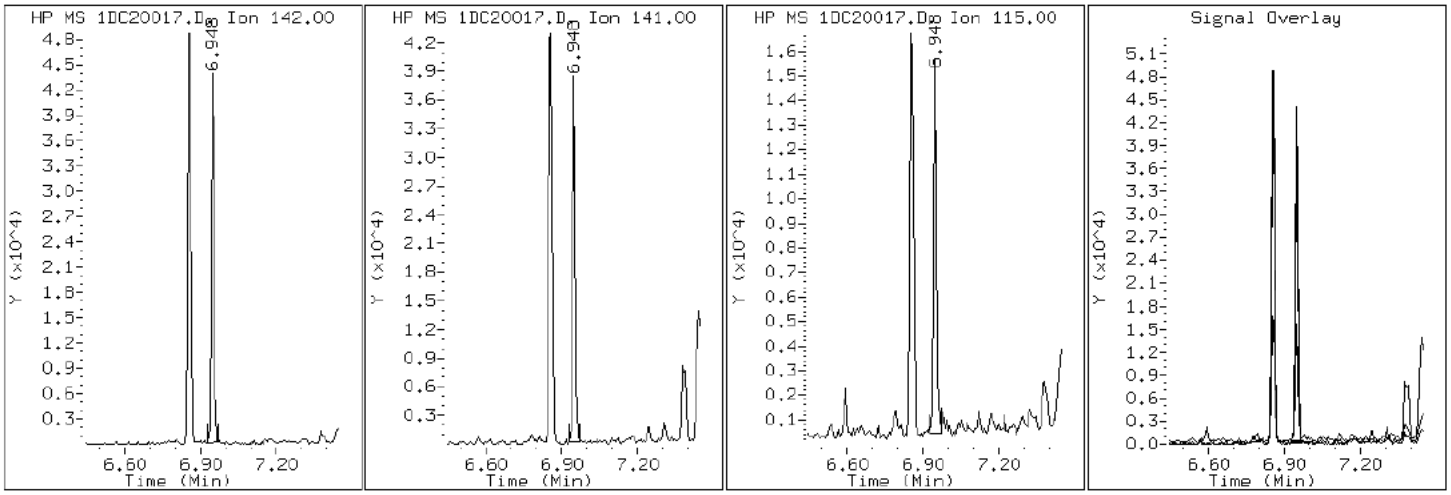
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

4 1-Methylnaphthalene



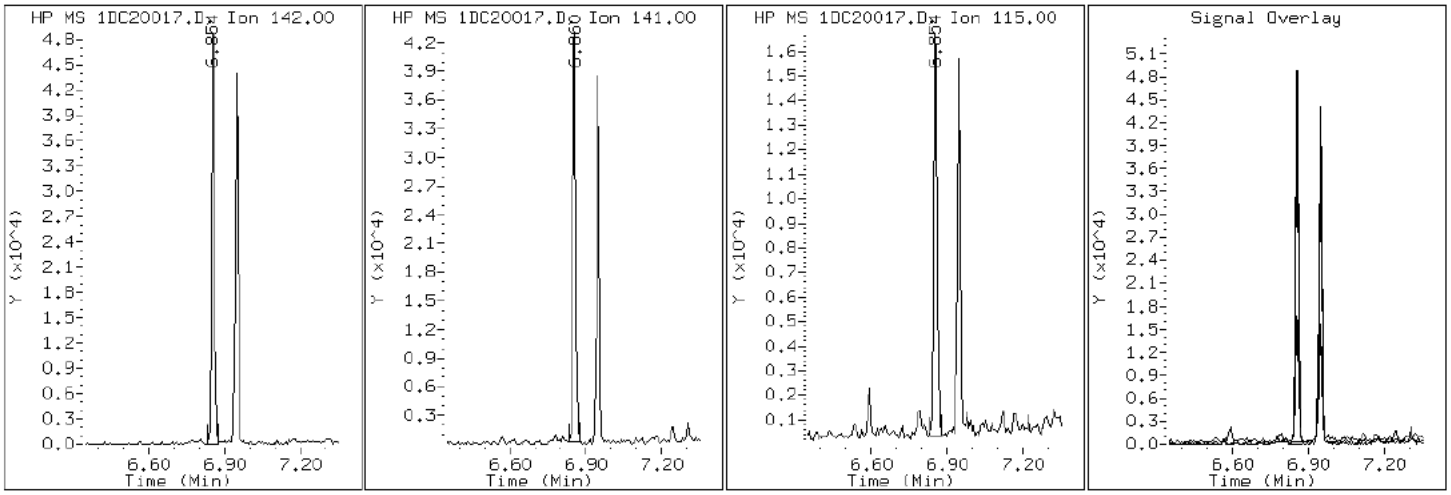
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

3 2-Methylnaphthalene



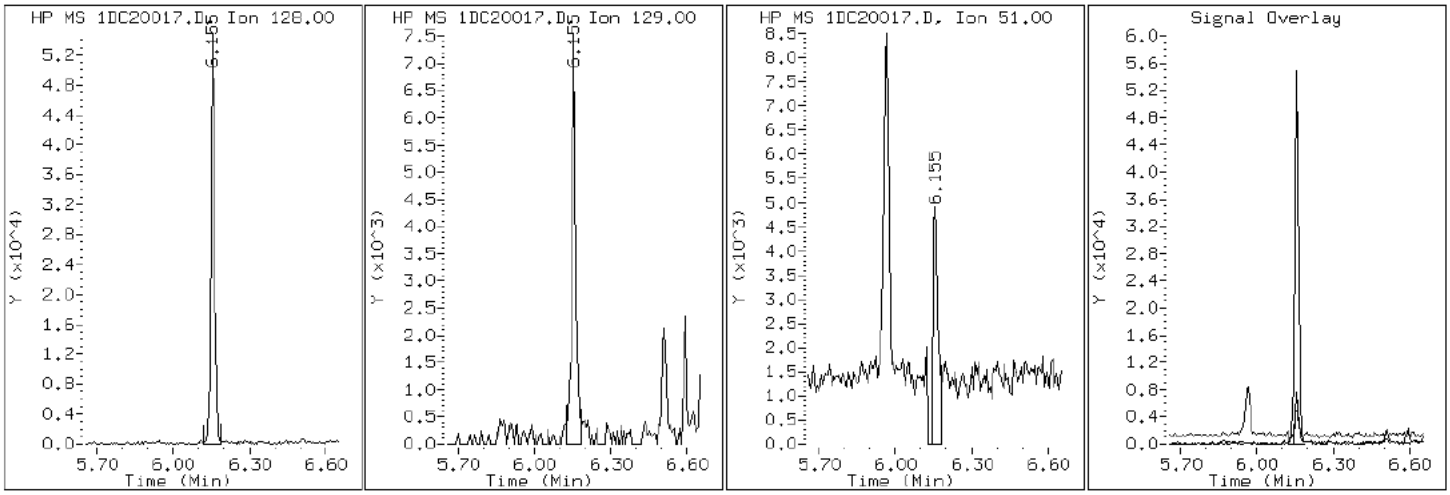
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

2 Naphthalene



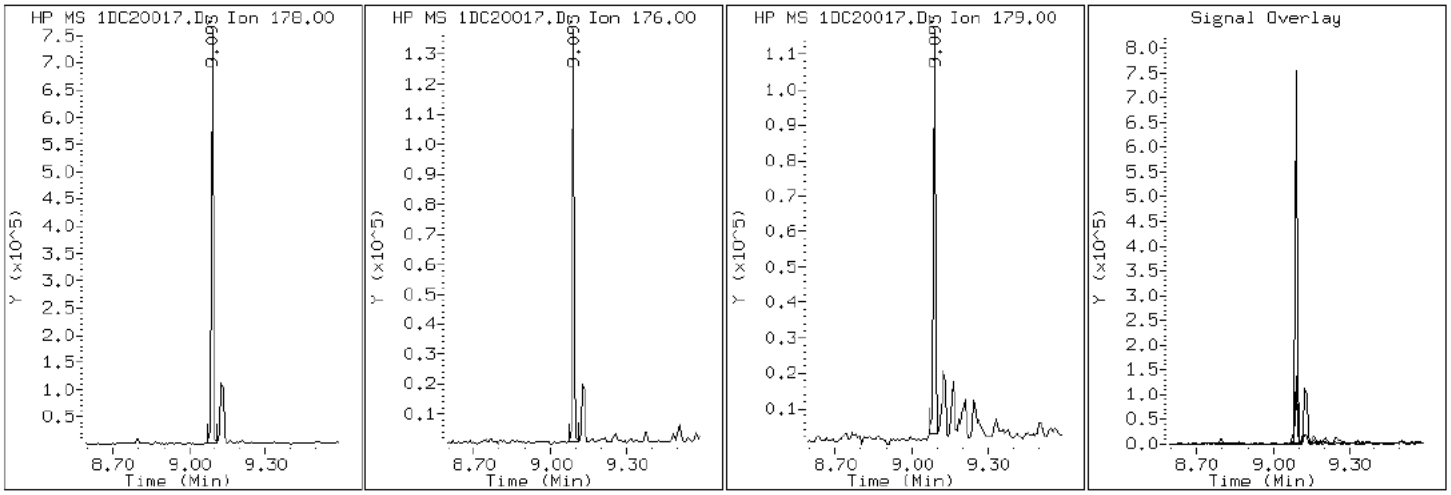
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

10 Phenanthrene



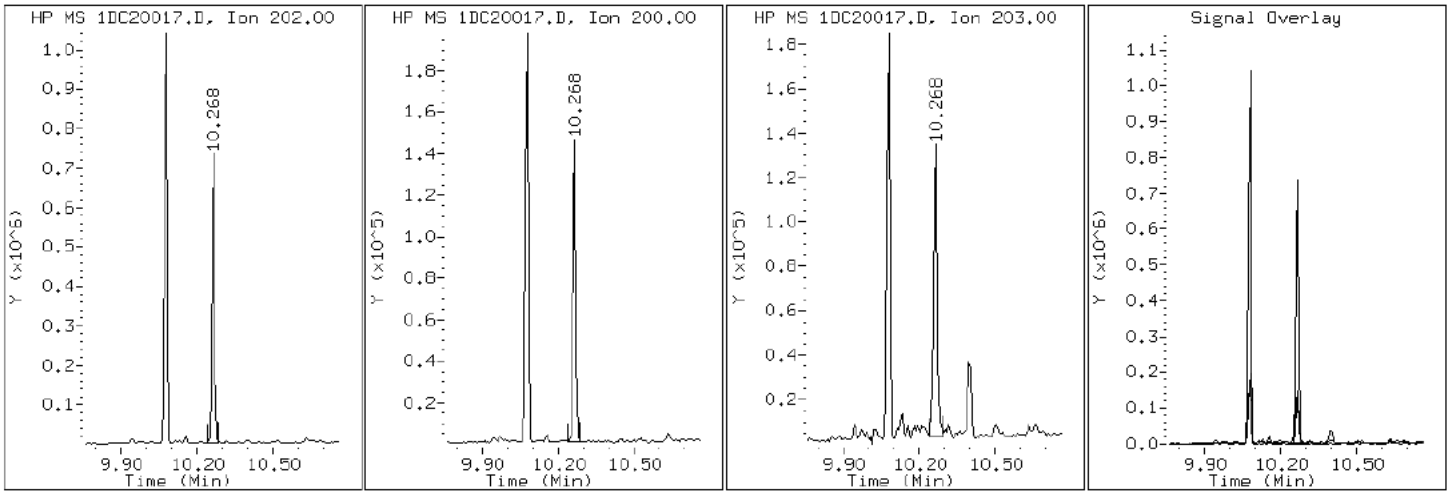
Data File: 1DC20017.D

Date: 20-MAR-2013 17:47

Client ID: CV1149A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-11-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20017.D
Inj. Date and Time: 20-MAR-2013 17:47
Instrument ID: BSMSD.i
Client ID: CV1149A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

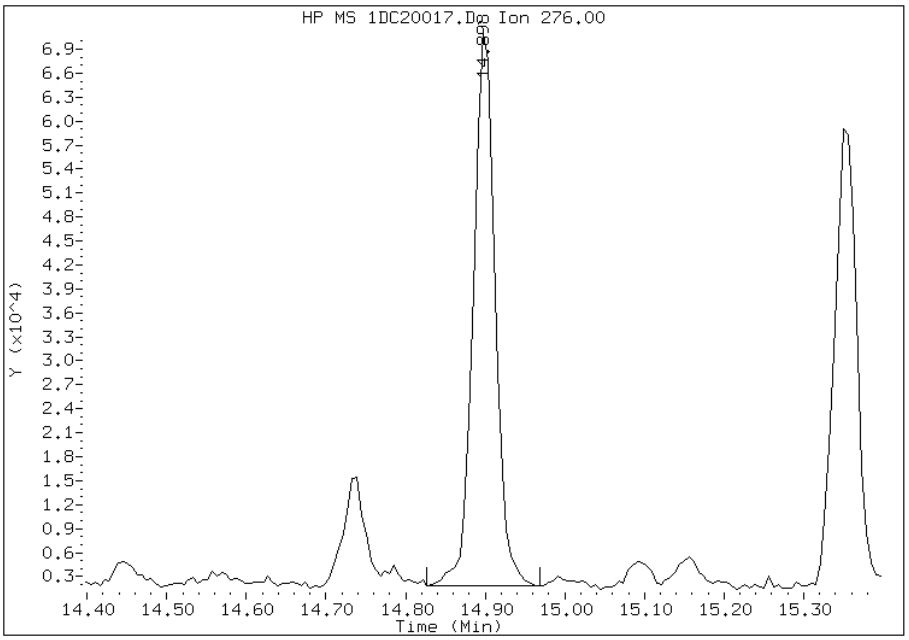
Processing Integration Results

RT: 14.90

Response: 131860

Amount: 2

Conc: 540



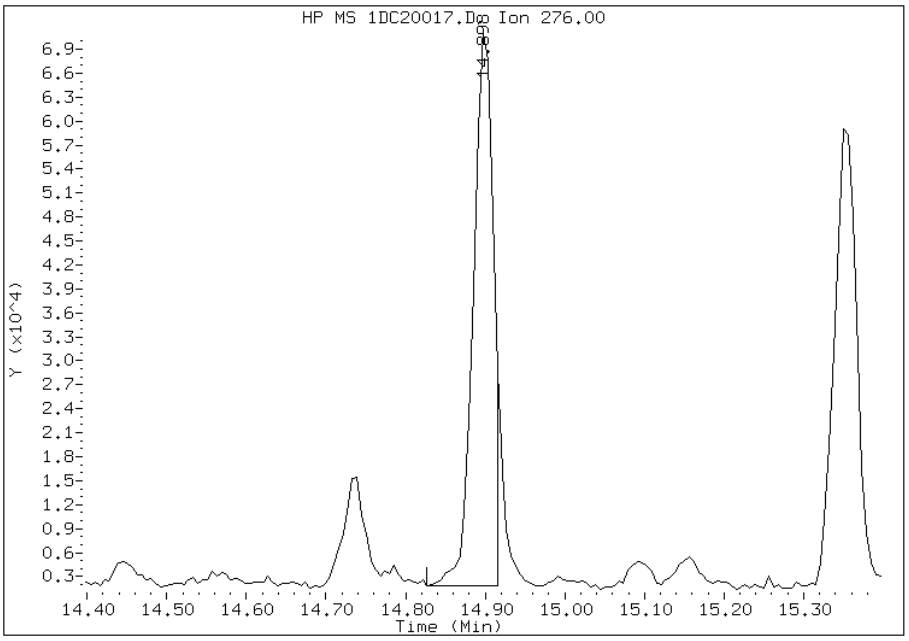
Manual Integration Results

RT: 14.90

Response: 121372

Amount: 1

Conc: 497



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1149B-CS | Lab Sample ID: 680-88298-12

Matrix: Solid | Lab File ID: 1DC20018.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 13:15

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 14.93(g) | Date Analyzed: 03/20/2013 18:10

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

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

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

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	30	J	210	27
120-12-7	Anthracene	73		45	22
56-55-3	Benzo[a]anthracene	310		43	21
50-32-8	Benzo[a]pyrene	280		55	28
205-99-2	Benzo[b]fluoranthene	540		65	33
191-24-2	Benzo[g,h,i]perylene	180		110	23
207-08-9	Benzo[k]fluoranthene	170		43	19
218-01-9	Chrysene	350		48	24
53-70-3	Dibenz(a,h)anthracene	53	J	110	22
206-44-0	Fluoranthene	530		110	21
86-73-7	Fluorene	29	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	160		110	38
90-12-0	1-Methylnaphthalene	110	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	38
91-20-3	Naphthalene	120	J	210	23
85-01-8	Phenanthrene	370		43	21
129-00-0	Pyrene	410		110	20

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20018.D
Lab Smp Id: 680-88298-A-12-A Client Smp ID: CV1149B-CS
Inj Date : 20-MAR-2013 18:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-12-A
Misc Info : 680-88298-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	14.930	Weight Extracted
M	24.583	% 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	6.136	6.131	(1.000)	3147404	40.0000	
* 6	Acenaphthene-d10	164	7.811	7.805	(1.000)	2020540	40.0000	
* 9	Phenanthrene-d10	188	9.074	9.068	(1.000)	3351855	40.0000	
$ 13	o-Terphenyl	230	9.380	9.380	(1.034)	95872	1.84963	660
* 17	Chrysene-d12	240	11.418	11.413	(1.000)	3450750	40.0000	
* 22	Perylene-d12	264	13.293	13.281	(1.000)	3228889	40.0000	
2	Naphthalene	128	6.154	6.154	(1.003)	29518	0.35059	120
3	2-Methylnaphthalene	142	6.853	6.853	(1.117)	23578	0.43962	160
4	1-Methylnaphthalene	142	6.947	6.947	(1.132)	15850	0.31559	110
5	Acenaphthylene	152	7.682	7.682	(0.983)	7637	0.08573	30
8	Fluorene	166	8.275	8.275	(1.059)	5144	0.08106	29
10	Phenanthrene	178	9.092	9.092	(1.002)	97827	1.02816	360
11	Anthracene	178	9.127	9.133	(1.006)	19551	0.20537	73
12	Carbazole	167	9.268	9.268	(1.021)	14680	0.17250	61

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.073	10.073	(1.110)	148440	1.49495	530
15 Pyrene	202	10.261	10.261	(0.899)	122439	1.14387	410
16 Benzo(a)anthracene	228	11.395	11.389	(0.998)	83292	0.88164	310
18 Chrysene	228	11.436	11.436	(1.002)	96031	0.98459	350
19 Benzo(b)fluoranthene	252	12.723	12.723	(0.957)	126099	1.51724	540
20 Benzo(k)fluoranthene	252	12.752	12.764	(0.959)	40535	0.46581	160
21 Benzo(a)pyrene	252	13.181	13.181	(0.992)	65978	0.80221	280
23 Indeno(1,2,3-cd)pyrene	276	14.891	14.903	(1.120)	38779	0.44182	160(M)
24 Dibenzo(a,h)anthracene	278	14.914	14.932	(1.122)	12205	0.15057	53(H)
25 Benzo(g,h,i)perylene	276	15.337	15.361	(1.154)	41461	0.49545	180(H)

QC Flag Legend

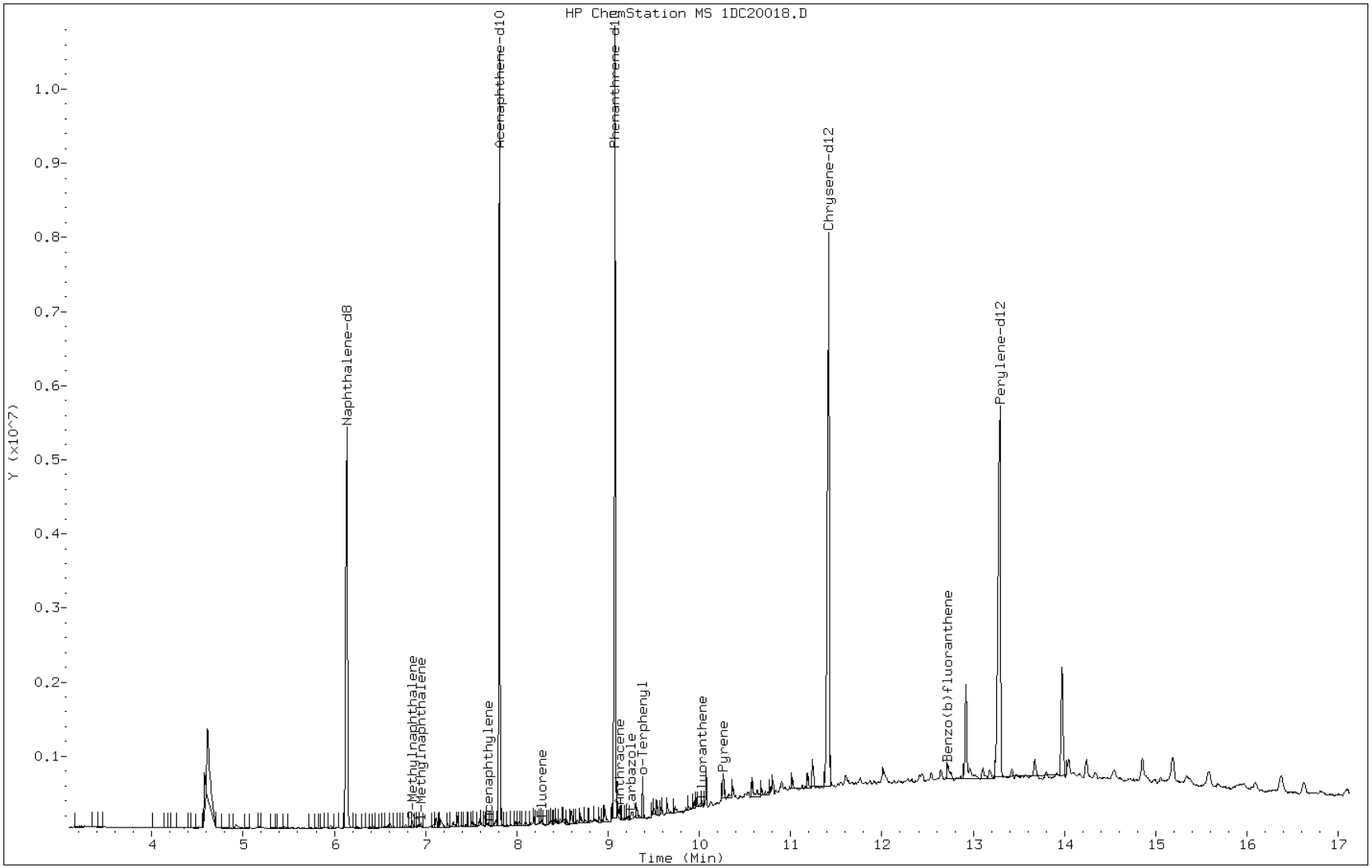
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC



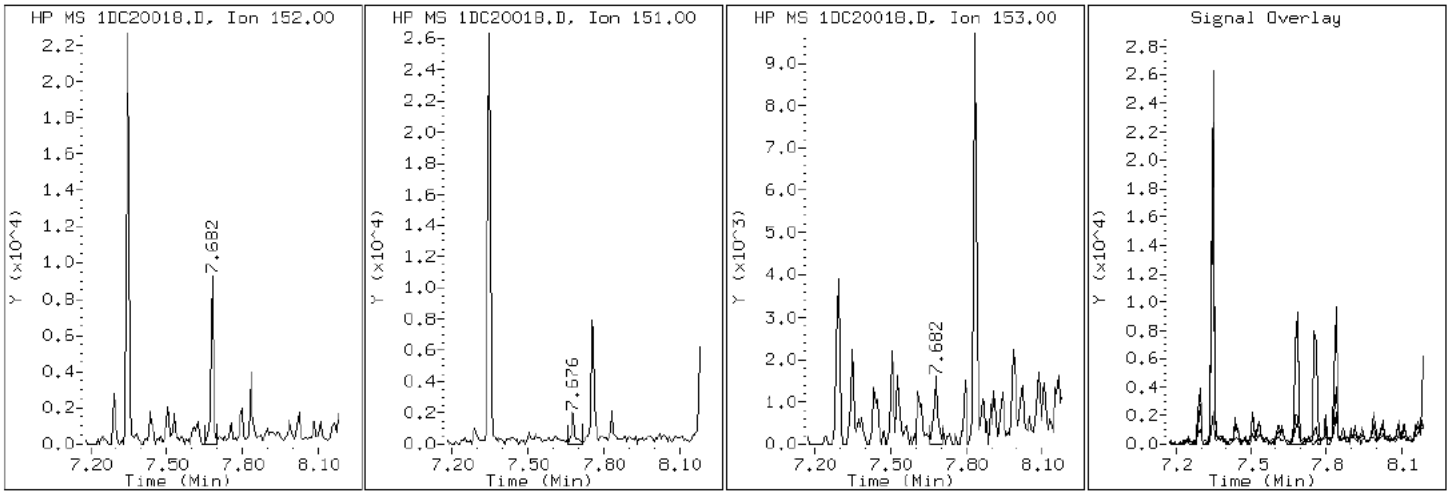
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

5 Acenaphthylene



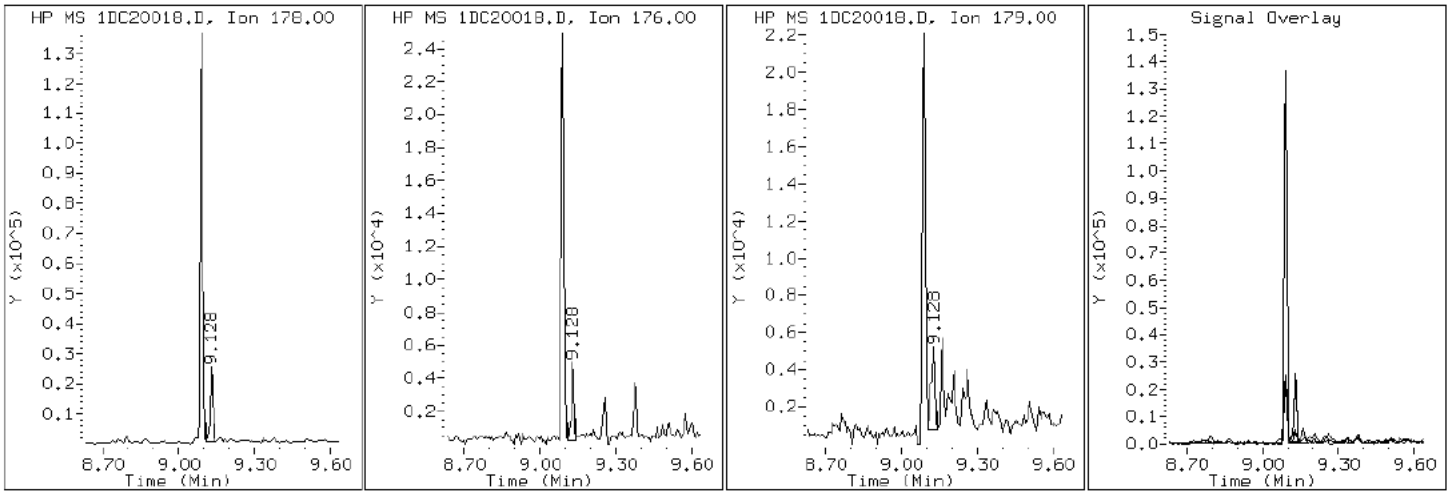
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

11 Anthracene



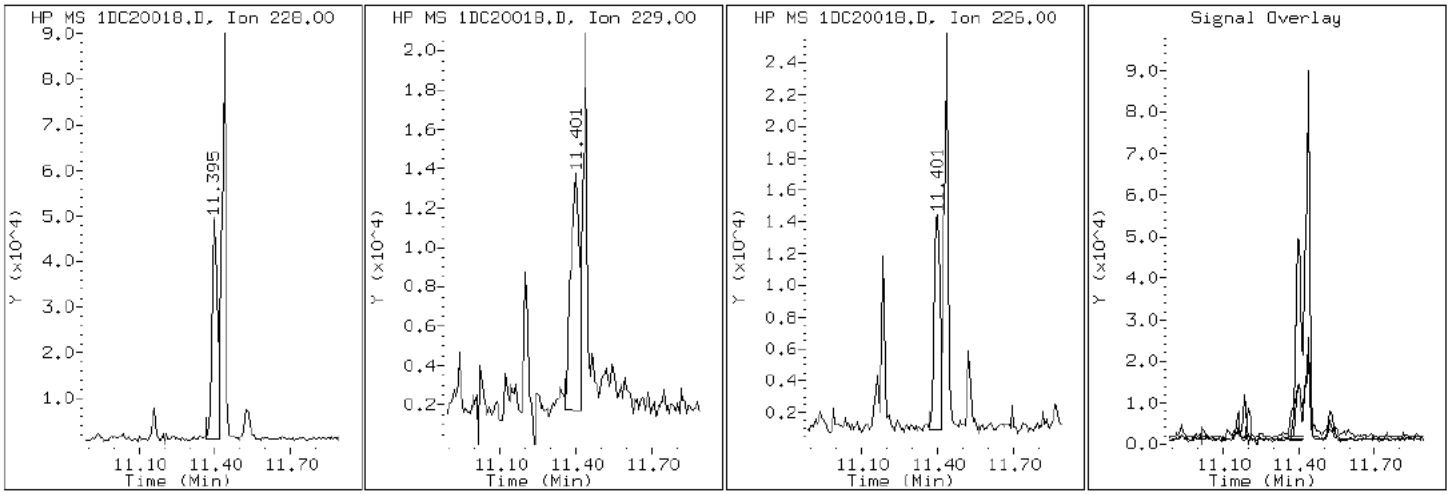
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

16 Benzo(a)anthracene



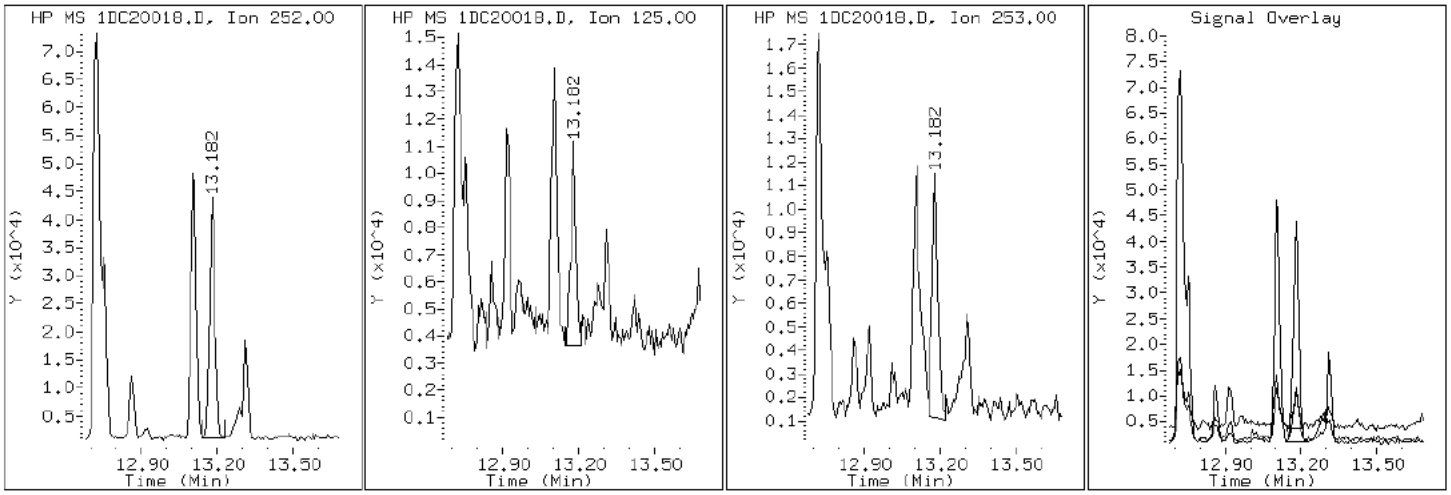
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

21 Benzo(a)pyrene



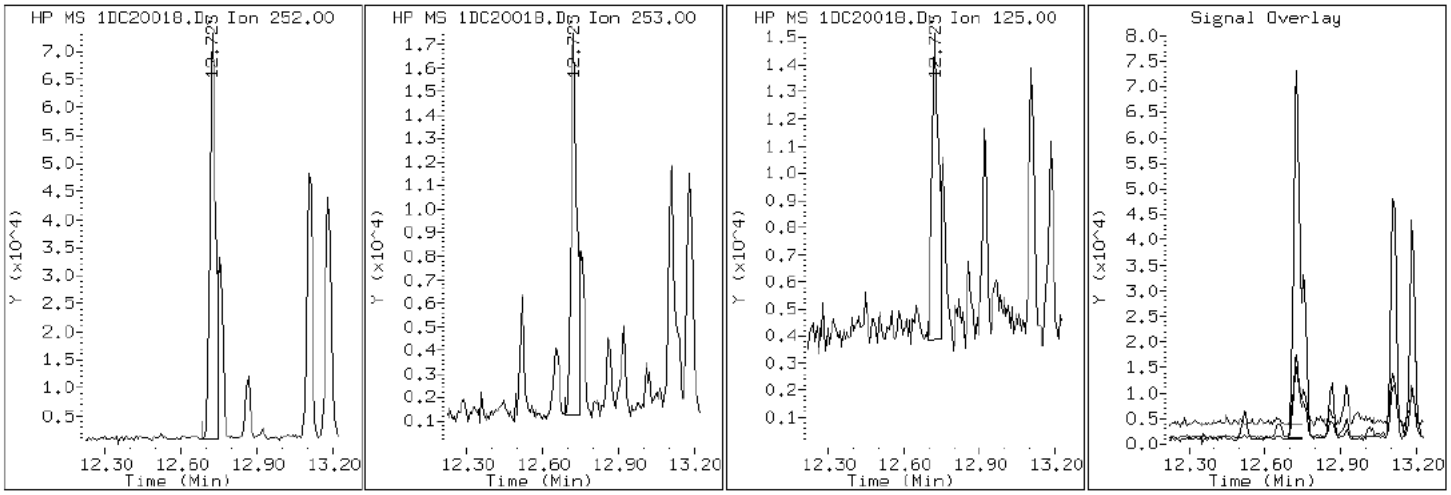
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

19 Benzo(b)fluoranthene



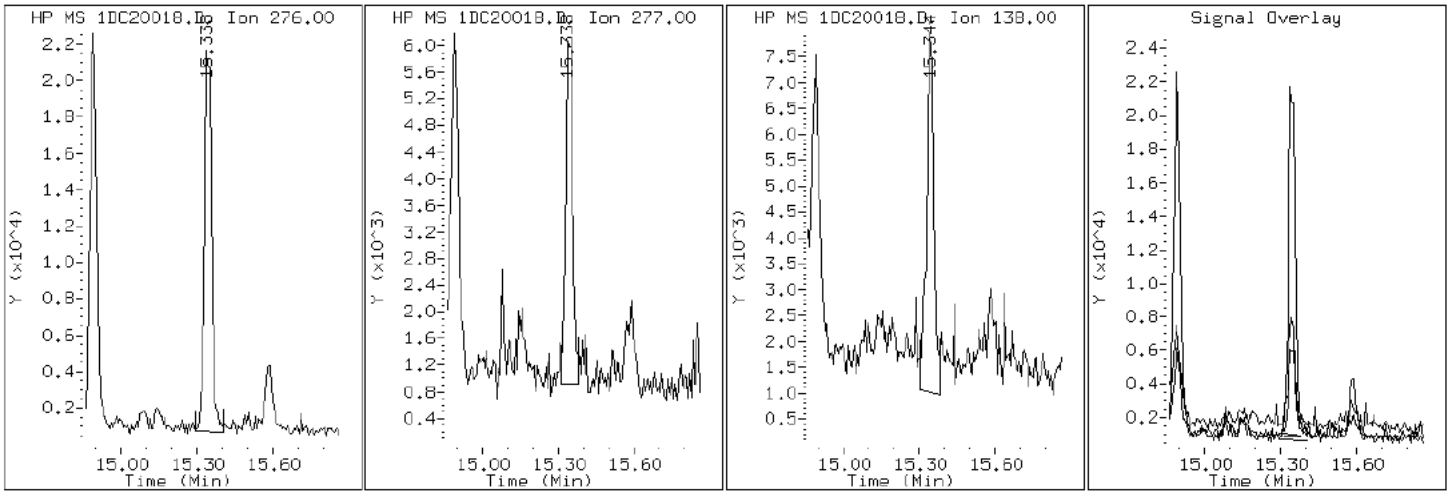
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

25 Benzo(g,h,i)perylene



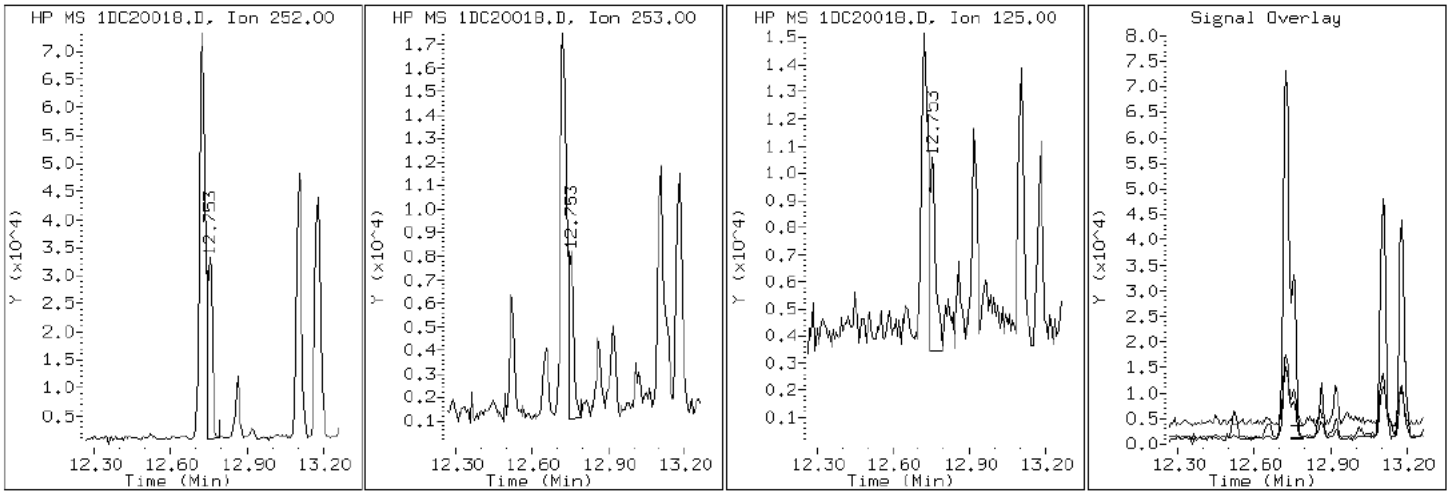
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

20 Benzo(k)fluoranthene



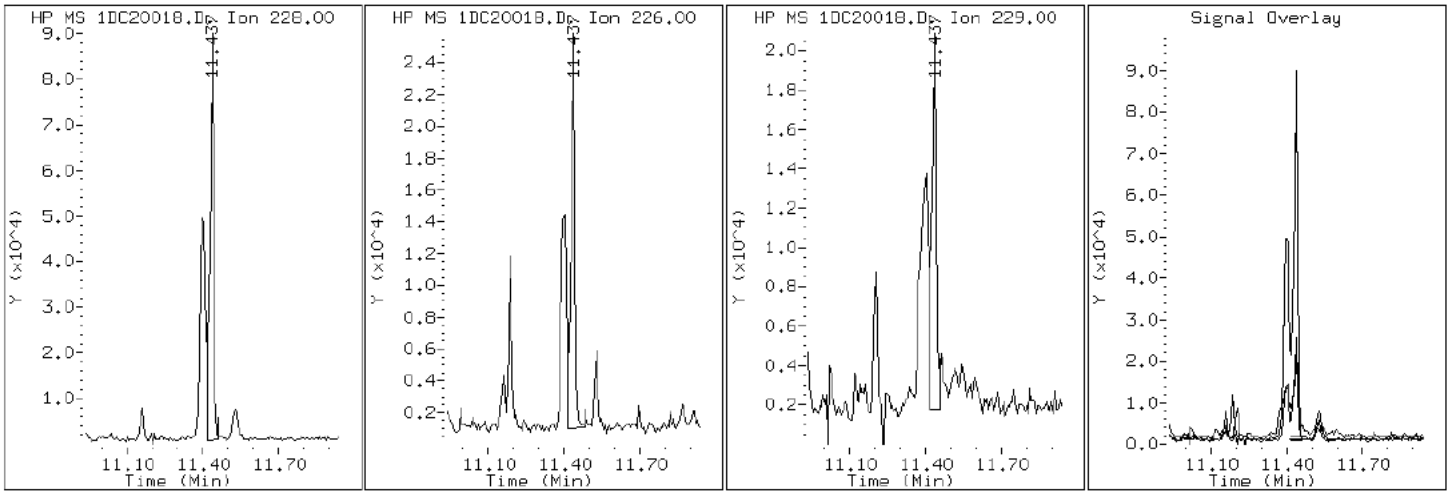
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

18 Chrysene



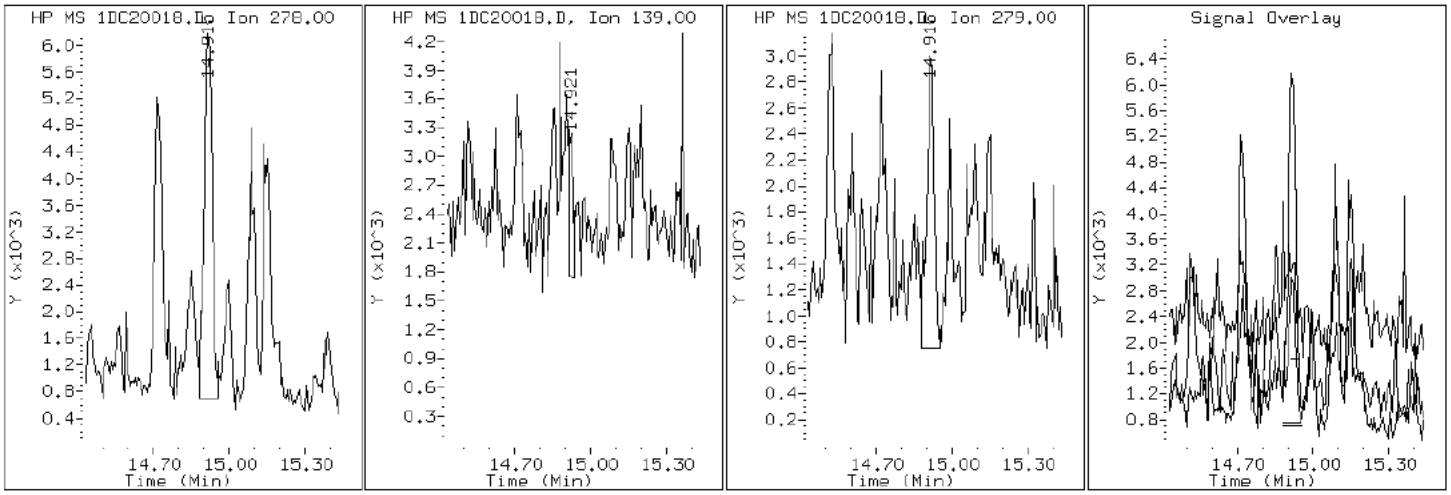
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

24 Dibenzo(a,h)anthracene



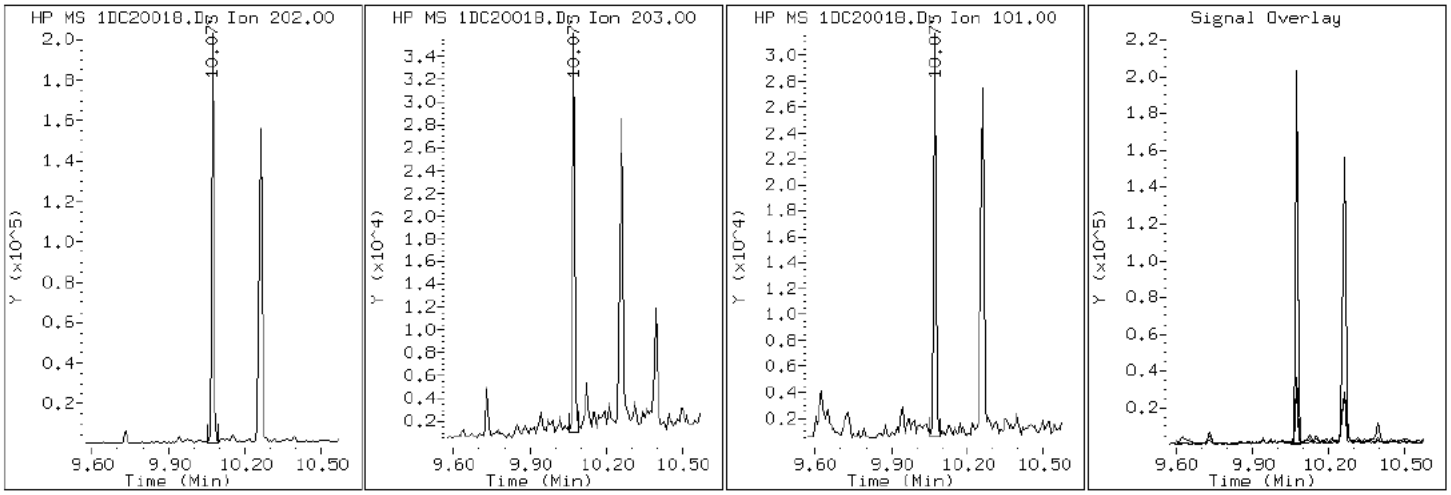
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

14 Fluoranthene



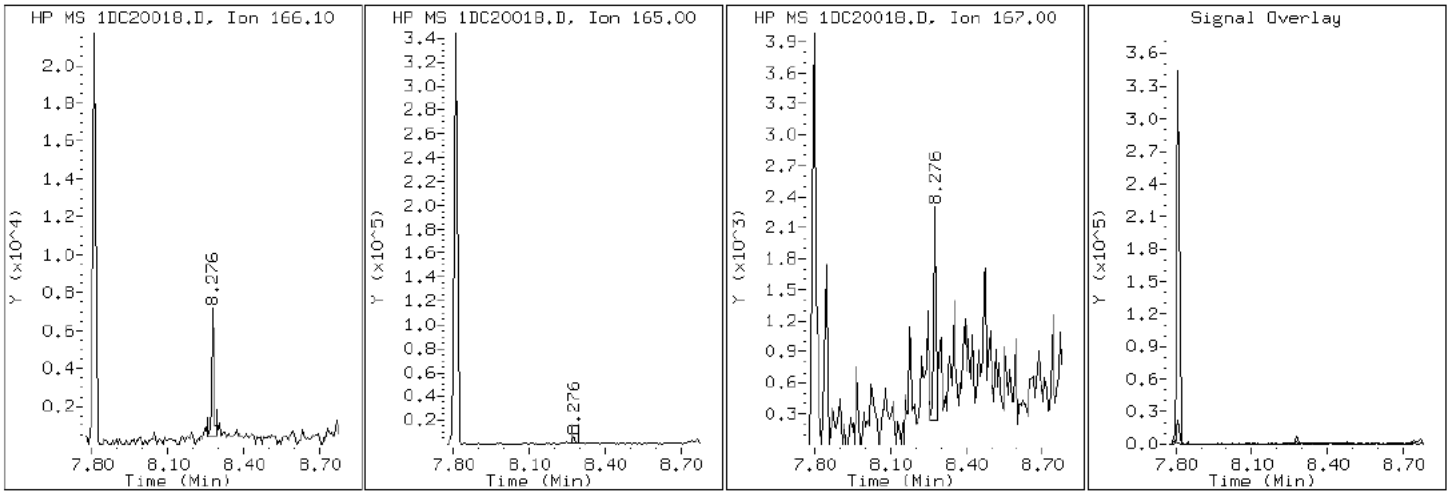
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

8 Fluorene



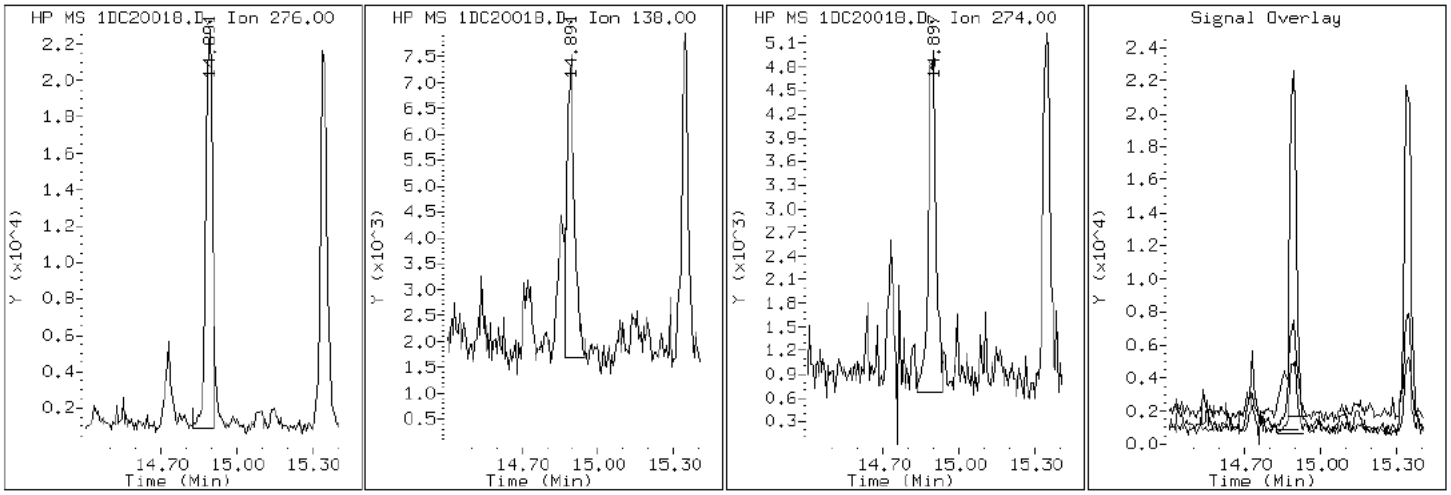
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

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



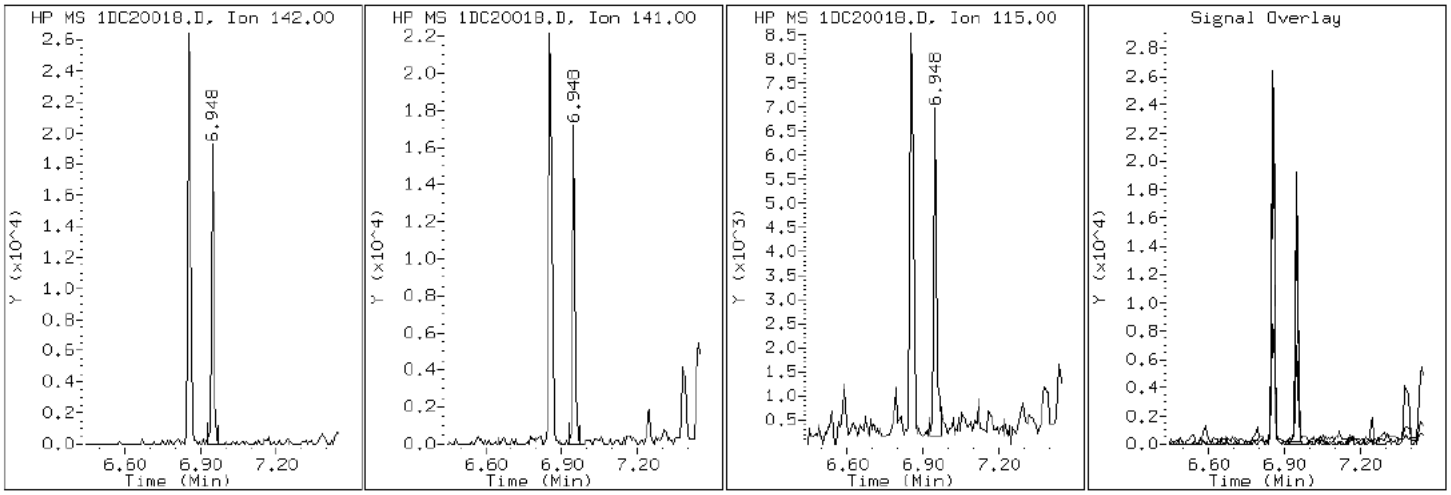
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

4 1-Methylnaphthalene



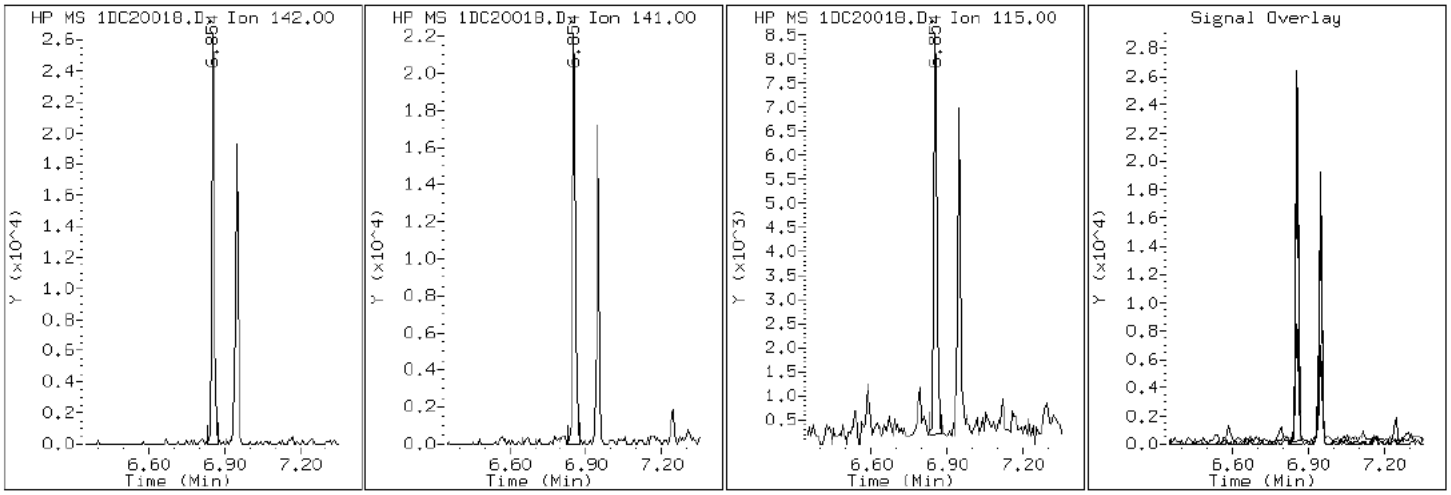
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

3 2-Methylnaphthalene



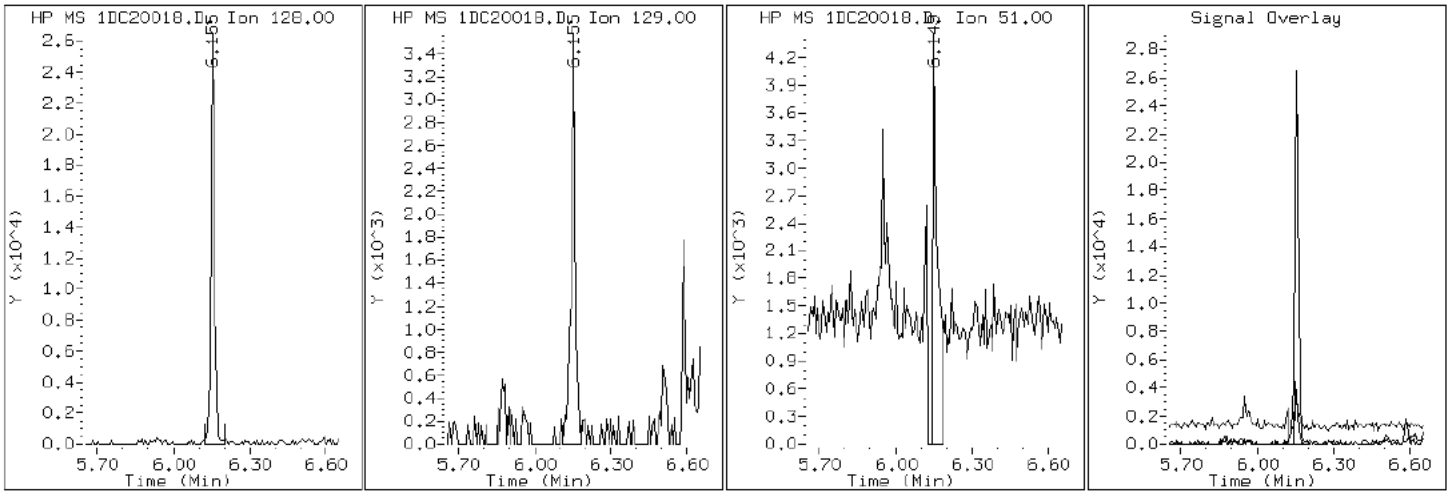
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

2 Naphthalene



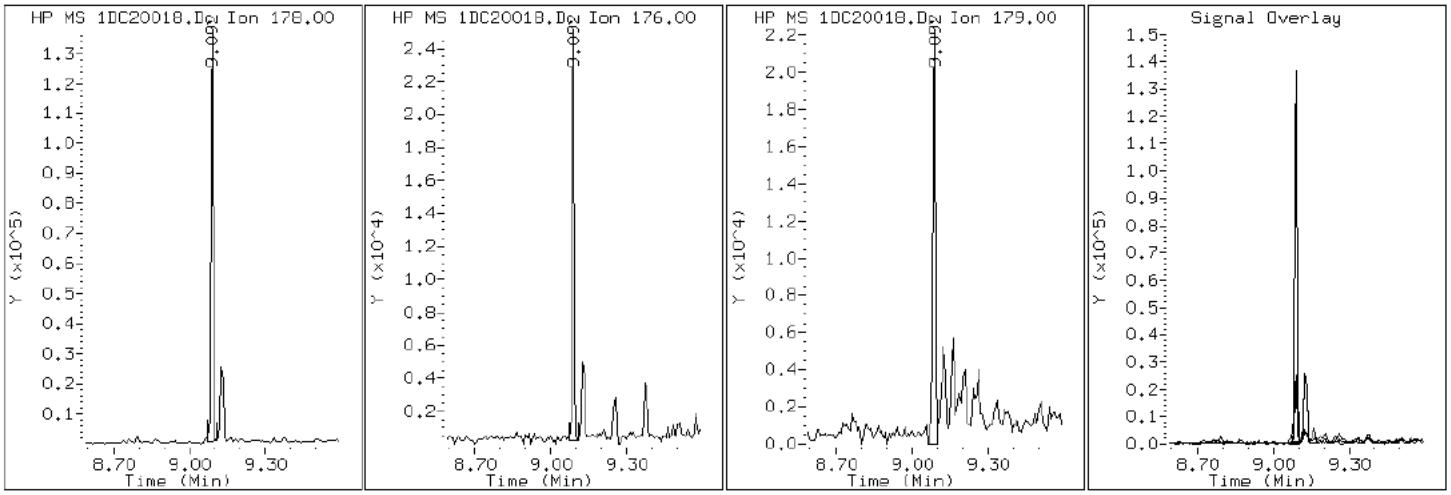
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

10 Phenanthrene



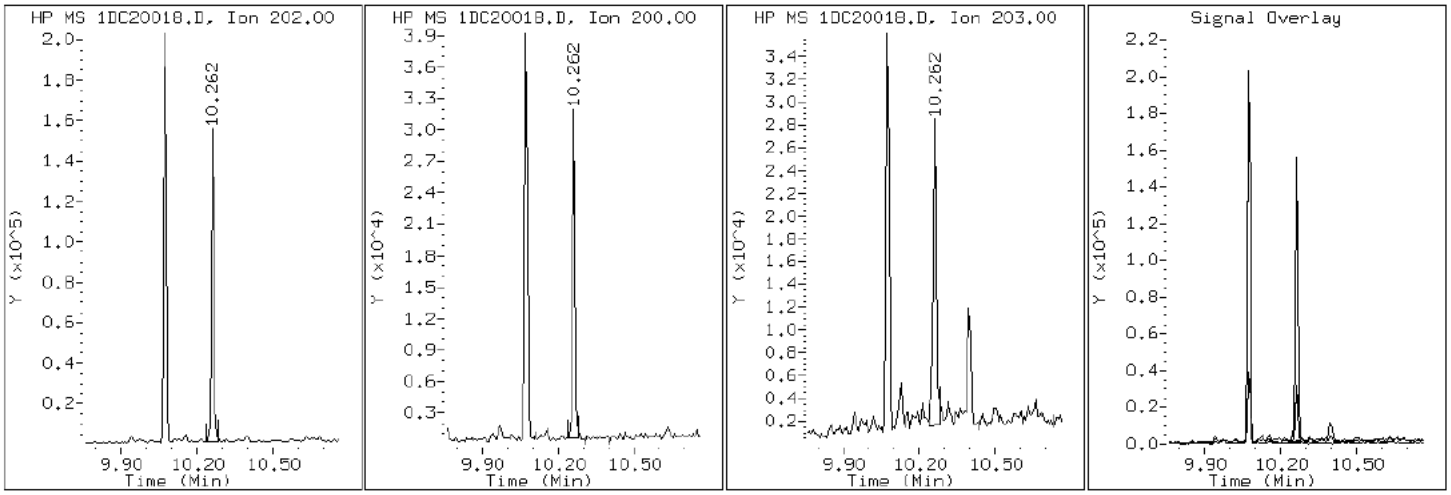
Data File: 1DC20018.D

Date: 20-MAR-2013 18:10

Client ID: CV1149B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-12-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20018.D
Inj. Date and Time: 20-MAR-2013 18:10
Instrument ID: BSMSD.i
Client ID: CV1149B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

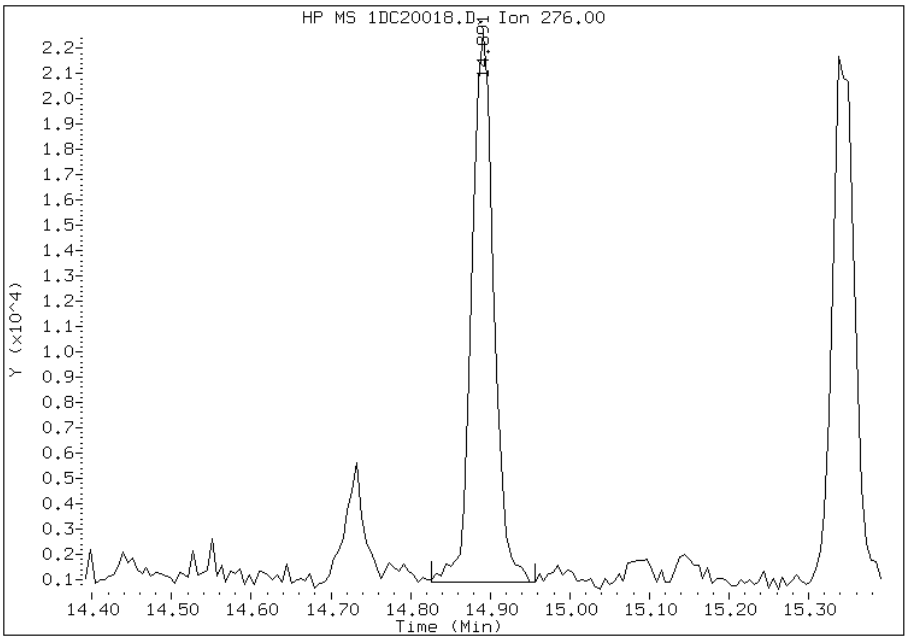
Processing Integration Results

RT: 14.89

Response: 41831

Amount: 0

Conc: 169



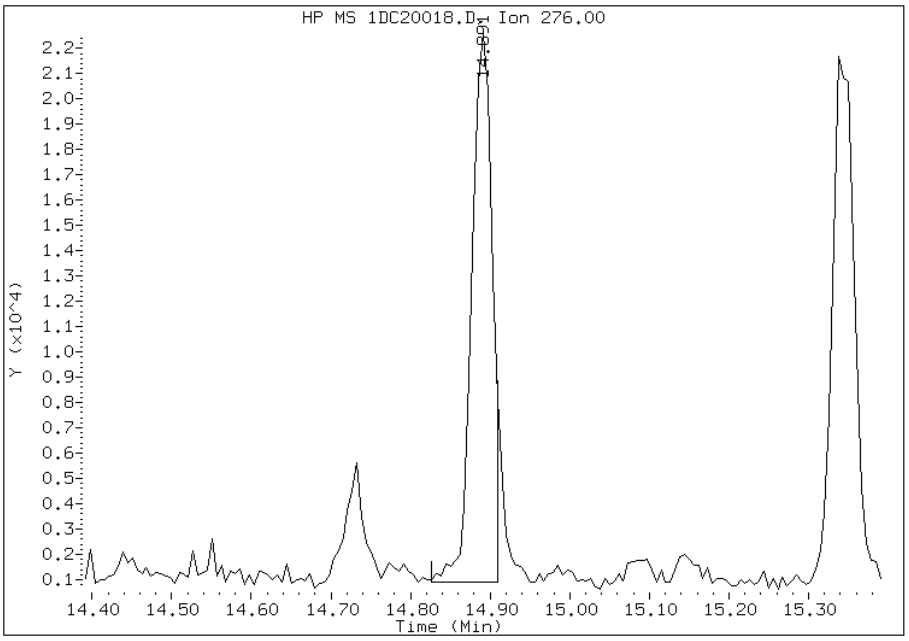
Manual Integration Results

RT: 14.89

Response: 38779

Amount: 0

Conc: 157



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1199A-CS | Lab Sample ID: 680-88298-13

Matrix: Solid | Lab File ID: 1DC20019.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 12:35

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.04(g) | Date Analyzed: 03/20/2013 18:32

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

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

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

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	65		59	7.4
120-12-7	Anthracene	92		12	6.2
56-55-3	Benzo[a]anthracene	470		12	5.8
50-32-8	Benzo[a]pyrene	670		15	7.7
205-99-2	Benzo[b]fluoranthene	1300		18	9.0
191-24-2	Benzo[g,h,i]perylene	450		30	6.5
207-08-9	Benzo[k]fluoranthene	420		12	5.3
218-01-9	Chrysene	620		13	6.7
53-70-3	Dibenz(a,h)anthracene	150		30	6.1
206-44-0	Fluoranthene	680		30	5.9
86-73-7	Fluorene	28	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	430		30	11
90-12-0	1-Methylnaphthalene	120		59	6.5
91-57-6	2-Methylnaphthalene	150		59	11
91-20-3	Naphthalene	140		59	6.5
85-01-8	Phenanthrene	390		12	5.8
129-00-0	Pyrene	570		30	5.5

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20019.D
Lab Smp Id: 680-88298-A-13-A Client Smp ID: CV1199A-CS
Inj Date : 20-MAR-2013 18:32
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-13-A
Misc Info : 680-88298-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	32.639	% 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	6.136	6.131	(1.000)	3148011	40.0000	
* 6	Acenaphthene-d10	164	7.811	7.805	(1.000)	2023365	40.0000	
* 9	Phenanthrene-d10	188	9.074	9.068	(1.000)	3418567	40.0000	
$ 13	o-Terphenyl	230	9.380	9.380	(1.034)	342807	6.48460	640
* 17	Chrysene-d12	240	11.418	11.413	(1.000)	3460644	40.0000	
* 22	Perylene-d12	264	13.299	13.281	(1.000)	3122002	40.0000	
2	Naphthalene	128	6.154	6.154	(1.003)	115192	1.36789	140
3	2-Methylnaphthalene	142	6.853	6.853	(1.117)	81189	1.51349	150
4	1-Methylnaphthalene	142	6.947	6.947	(1.132)	63495	1.26400	120
5	Acenaphthylene	152	7.682	7.682	(0.983)	58539	0.65623	65
7	Acenaphthene	154	7.834	7.835	(1.003)	11463	0.21075	21
8	Fluorene	166	8.275	8.275	(1.059)	18076	0.28444	28
10	Phenanthrene	178	9.092	9.092	(1.002)	384528	3.96250	390
11	Anthracene	178	9.133	9.133	(1.006)	90251	0.92954	92

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.268	9.268	(1.021)	45509	0.52432	52
14 Fluoranthene	202	10.079	10.073	(1.111)	701023	6.92229	680
15 Pyrene	202	10.267	10.261	(0.899)	624160	5.81447	570
16 Benzo(a)anthracene	228	11.401	11.389	(0.998)	446607	4.71379	460
18 Chrysene	228	11.442	11.436	(1.002)	613310	6.27016	620
19 Benzo(b)fluoranthene	252	12.740	12.723	(0.958)	1037496	12.9106	1300
20 Benzo(k)fluoranthene	252	12.764	12.764	(0.960)	355423	4.22422	420
21 Benzo(a)pyrene	252	13.193	13.181	(0.992)	538629	6.77329	670
23 Indeno(1,2,3-cd)pyrene	276	14.908	14.903	(1.121)	371066	4.37242	430(M)
24 Dibenzo(a,h)anthracene	278	14.932	14.932	(1.123)	120808	1.54141	150
25 Benzo(g,h,i)perylene	276	15.373	15.361	(1.156)	370785	4.58247	450

QC Flag Legend

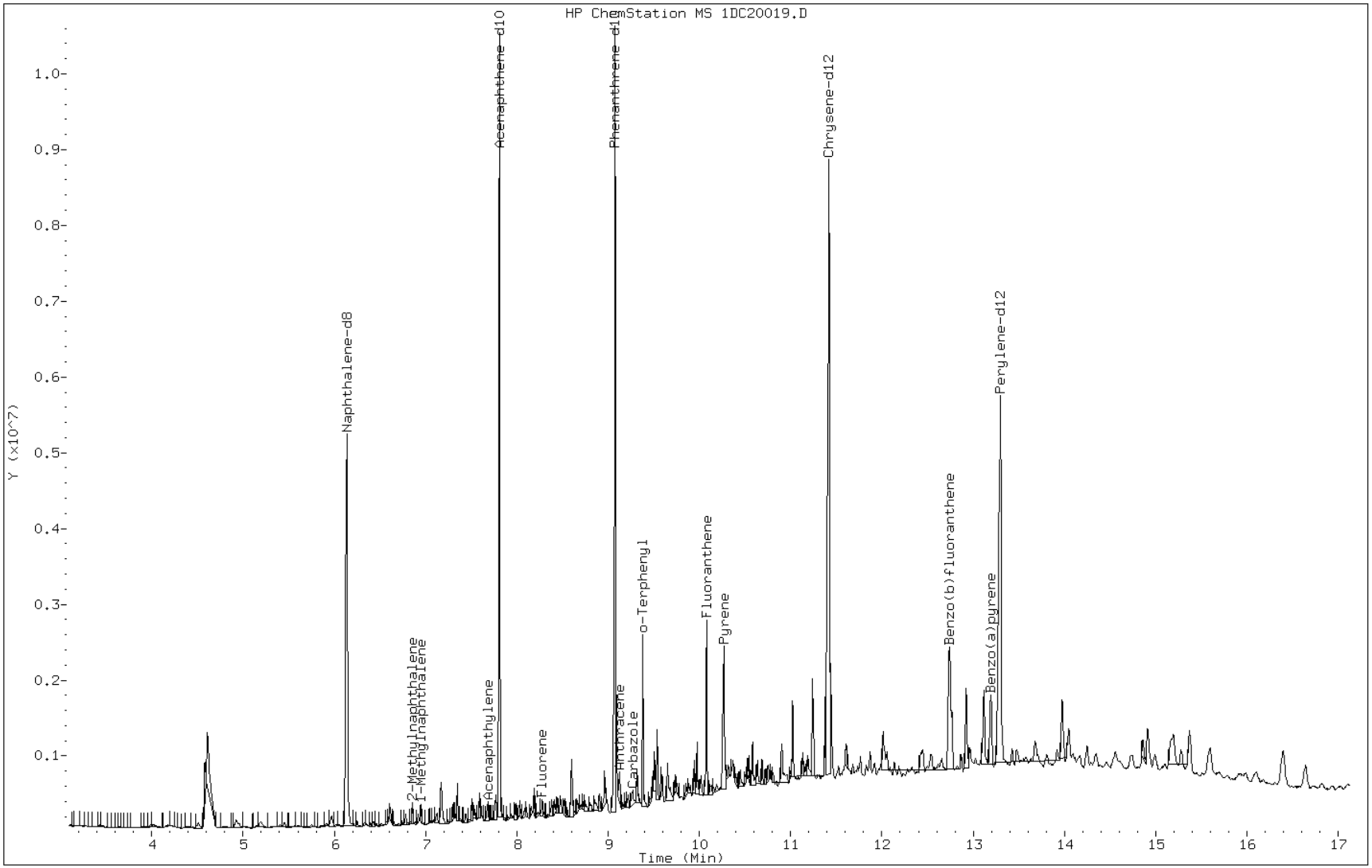
M - Compound response manually integrated.

Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC



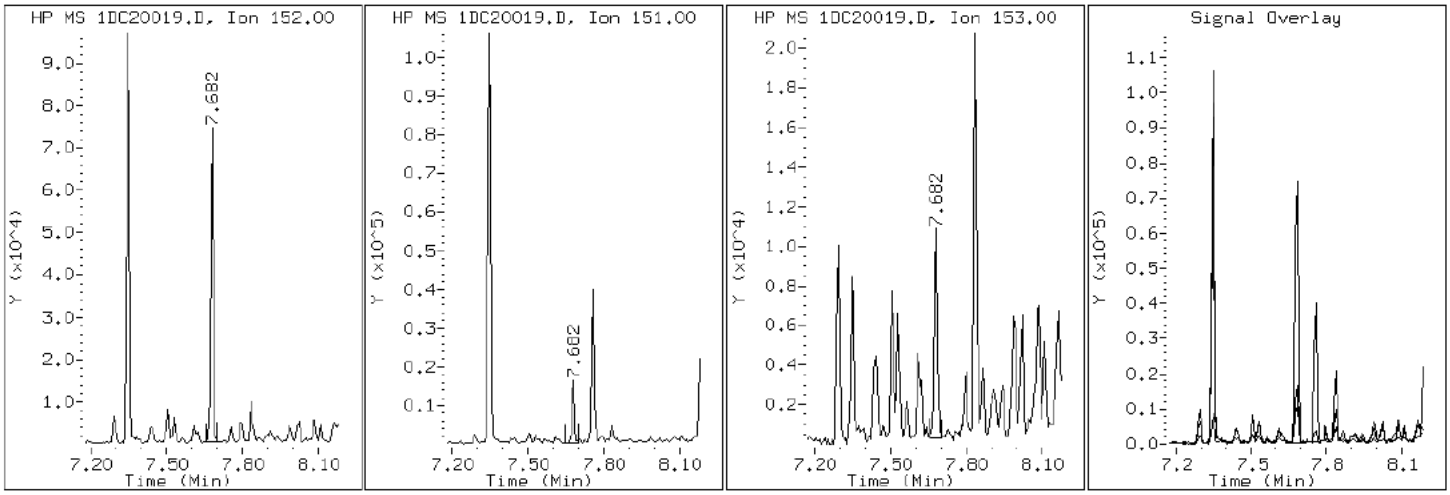
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

5 Acenaphthylene



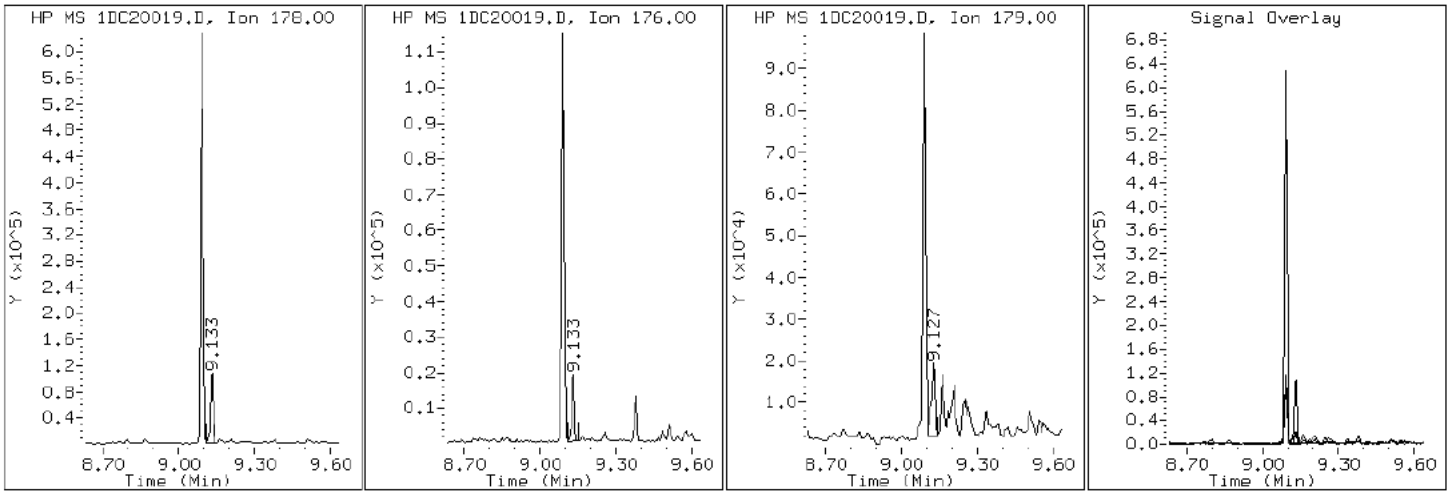
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

11 Anthracene



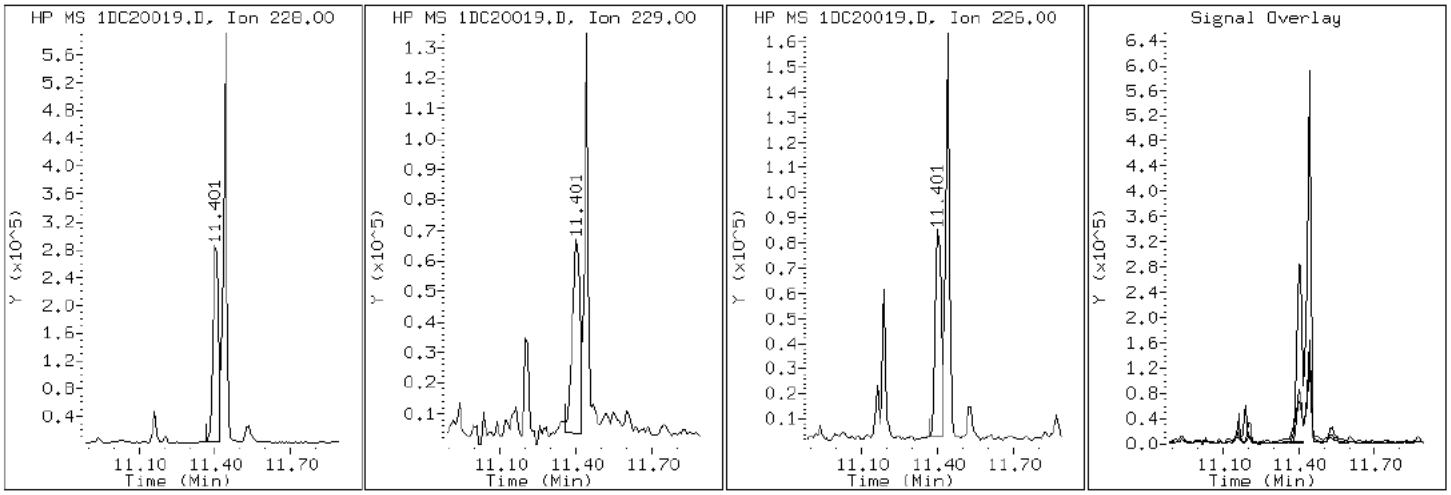
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

16 Benzo(a)anthracene



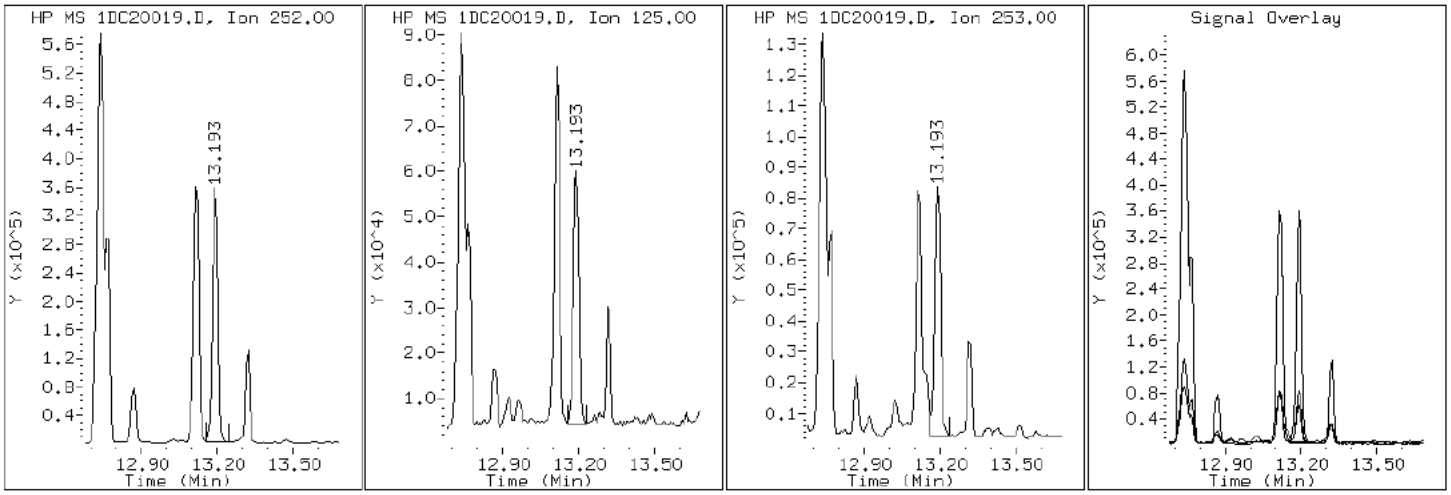
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

21 Benzo(a)pyrene



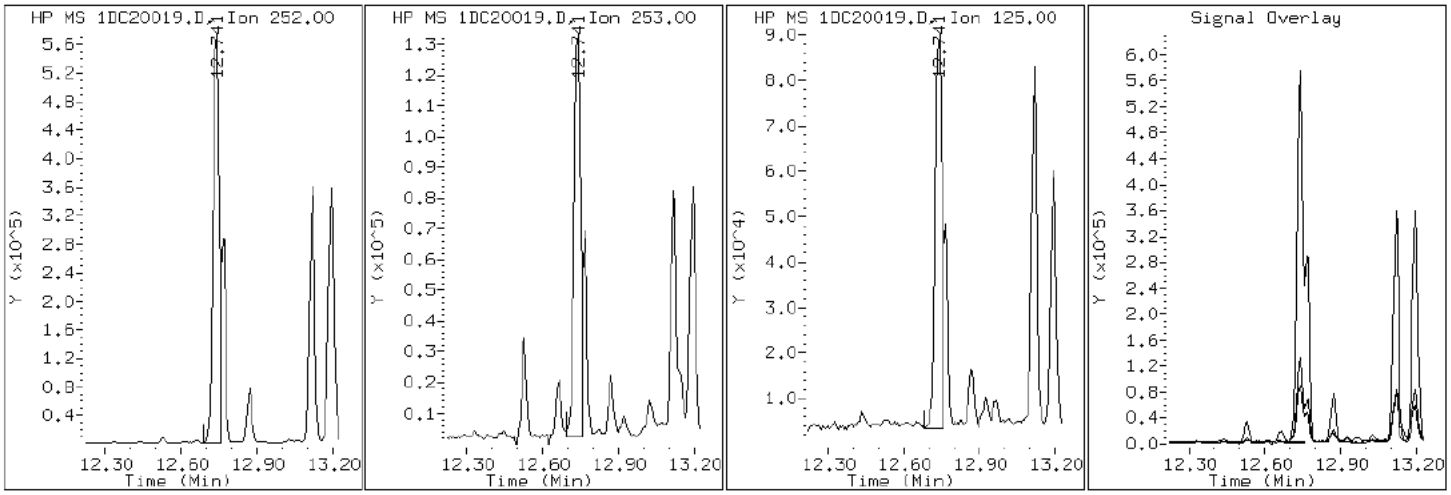
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

19 Benzo(b)fluoranthene



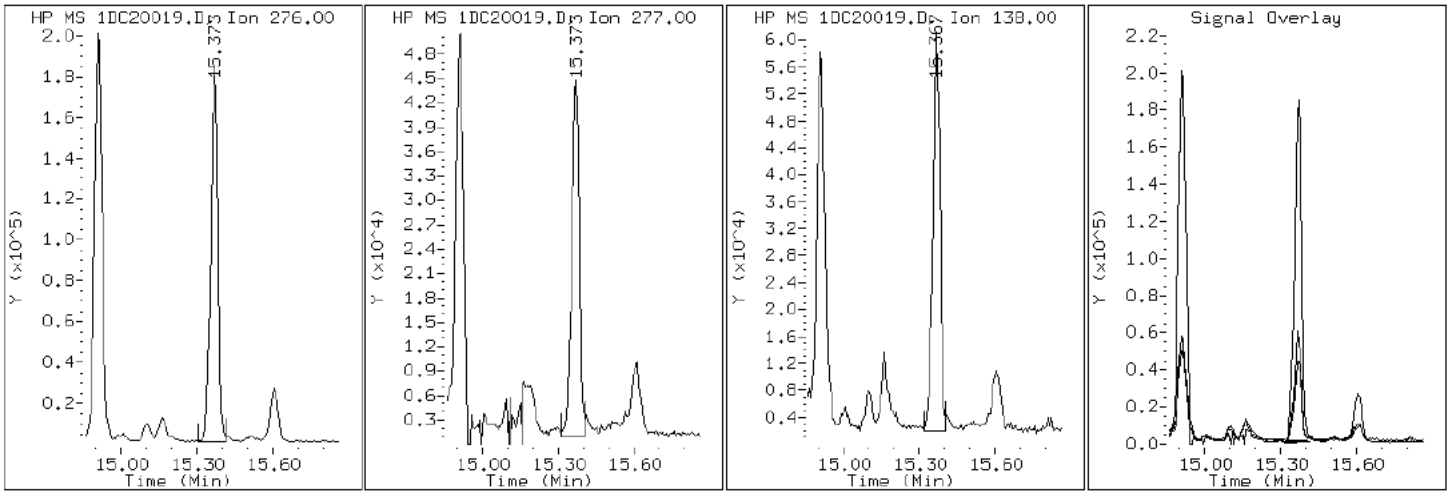
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

25 Benzo(g,h,i)perylene



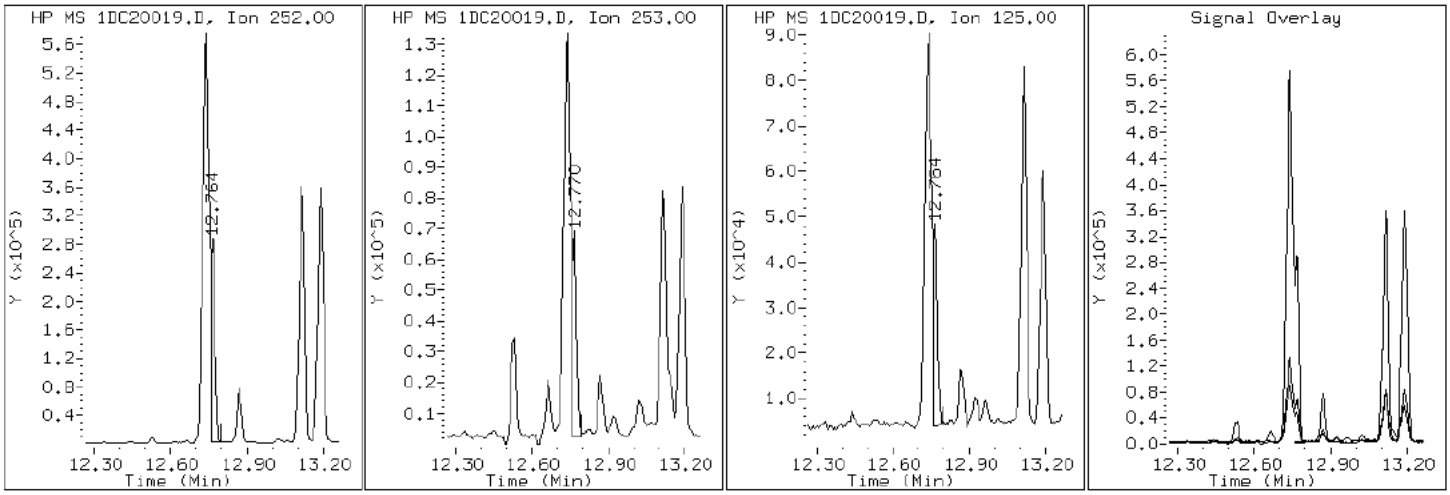
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

20 Benzo(k)fluoranthene



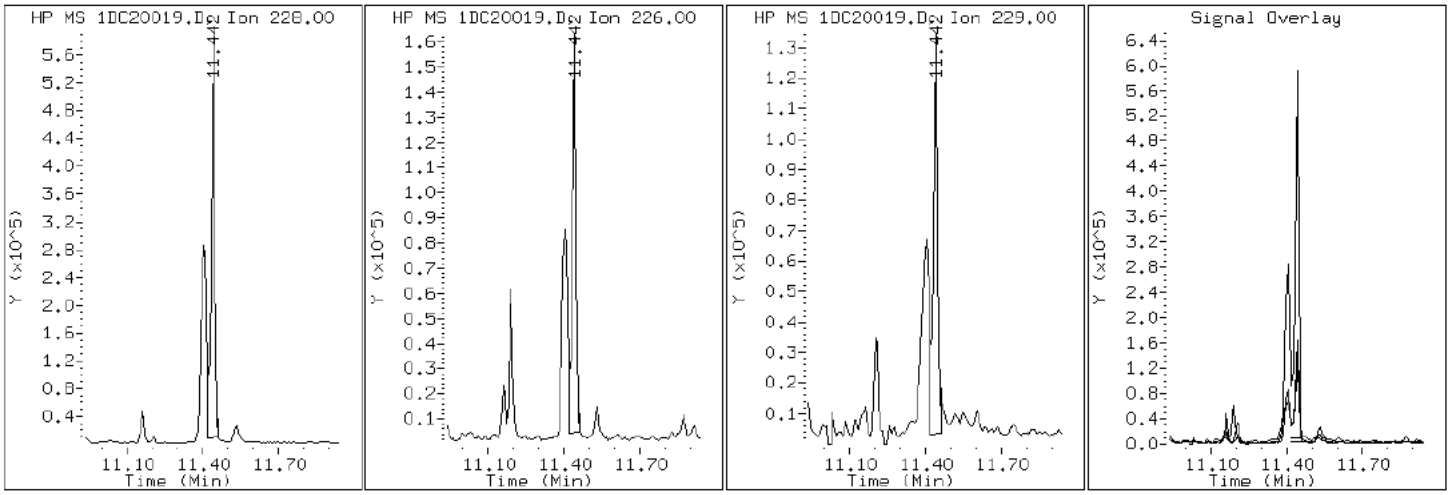
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

18 Chrysene



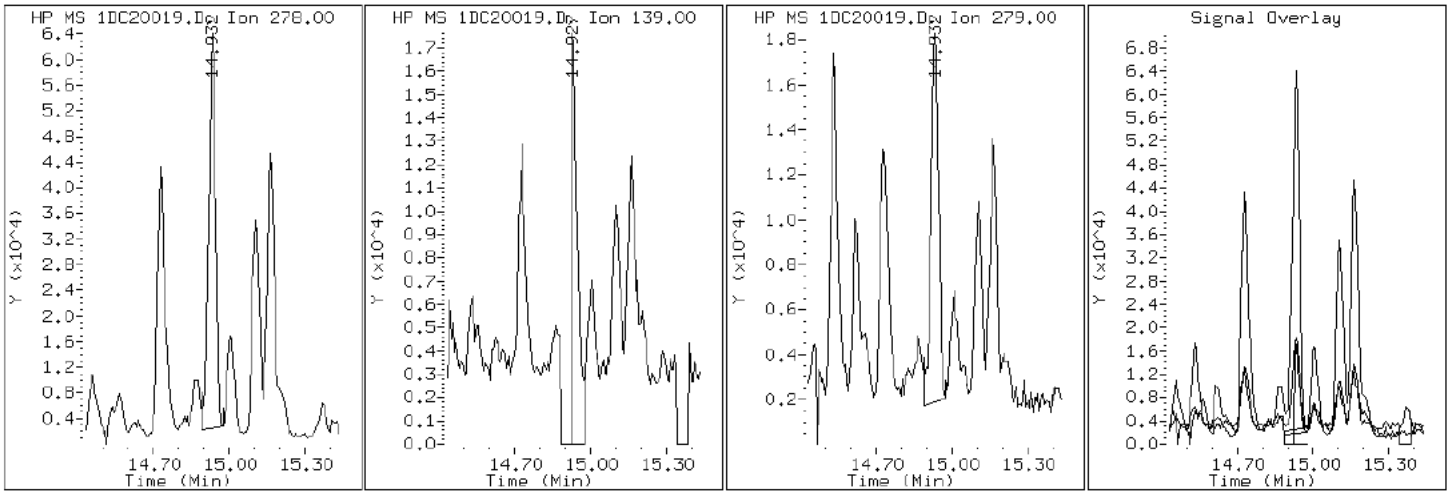
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

24 Dibenzo(a,h)anthracene



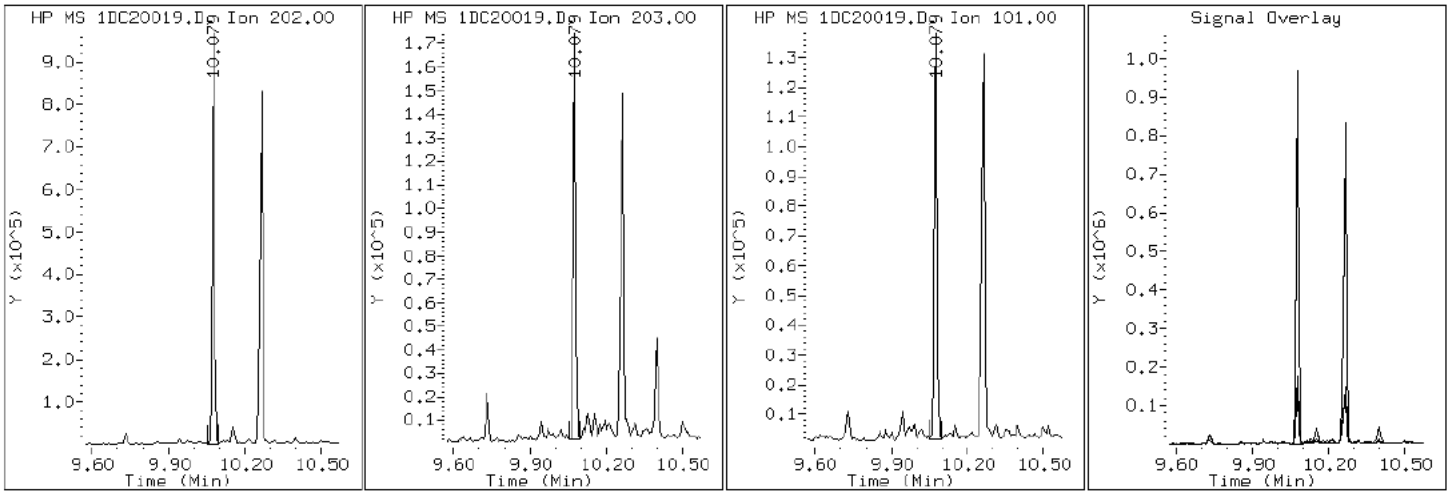
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

14 Fluoranthene



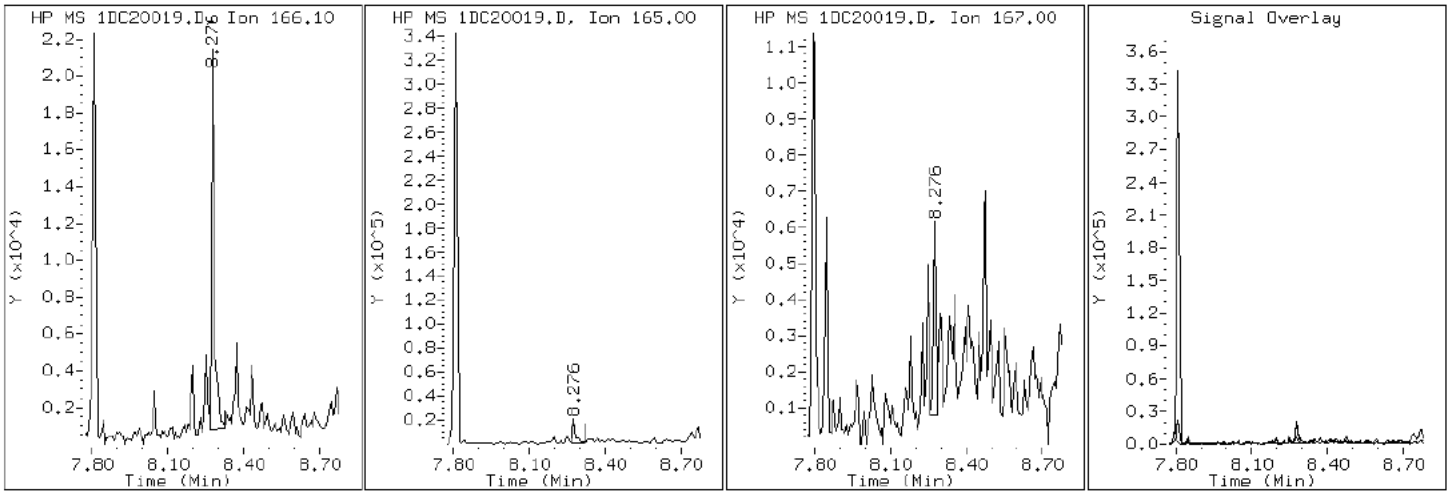
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

8 Fluorene



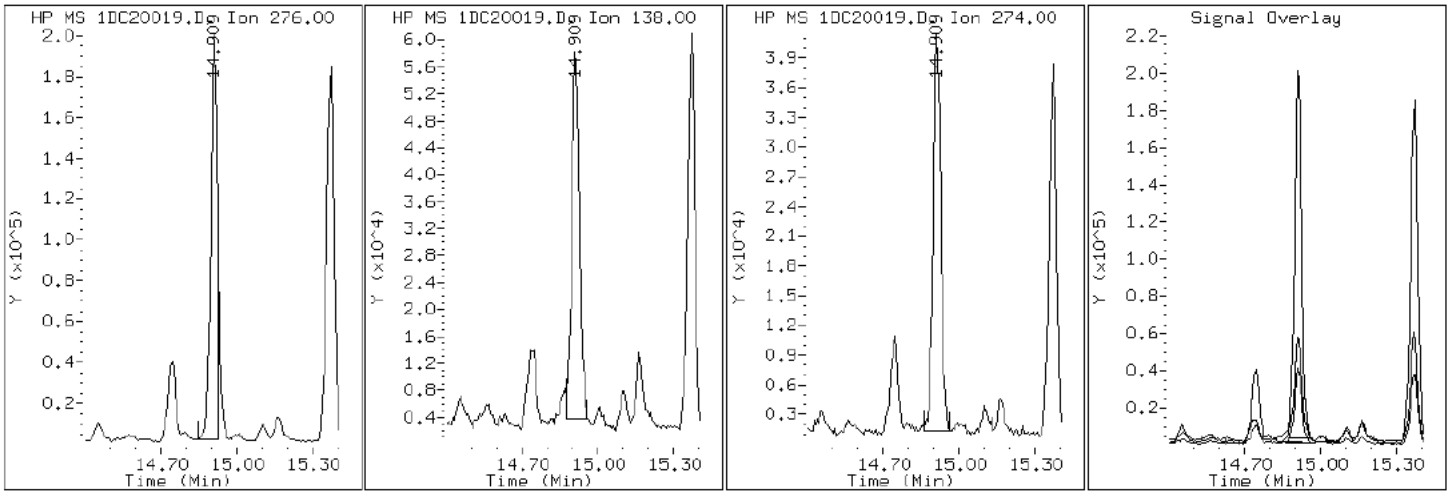
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

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



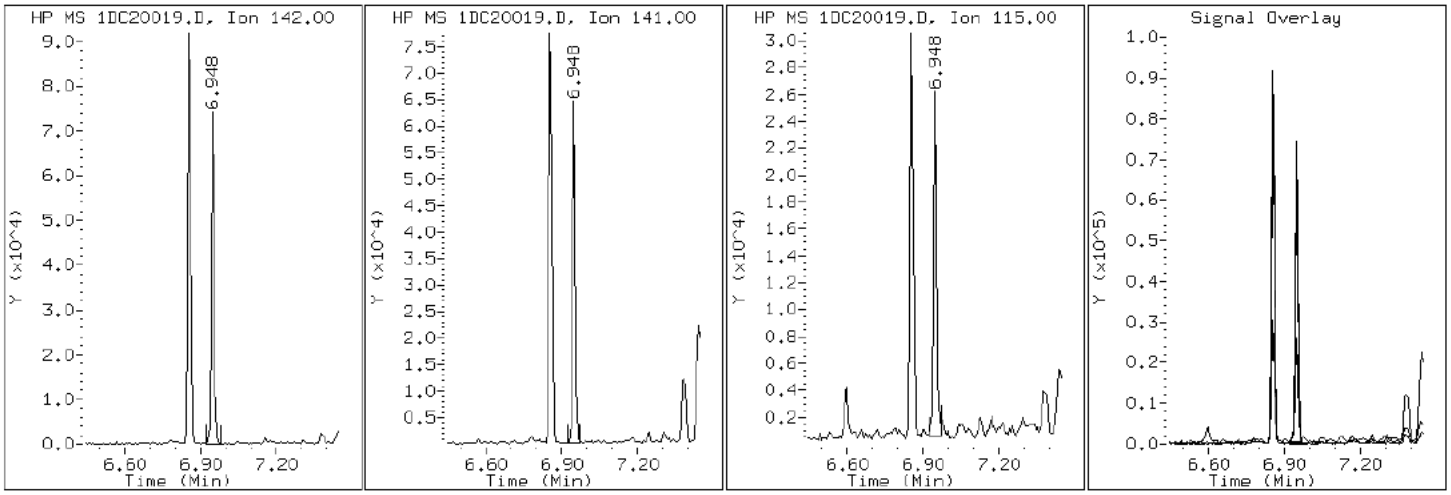
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

4 1-Methylnaphthalene



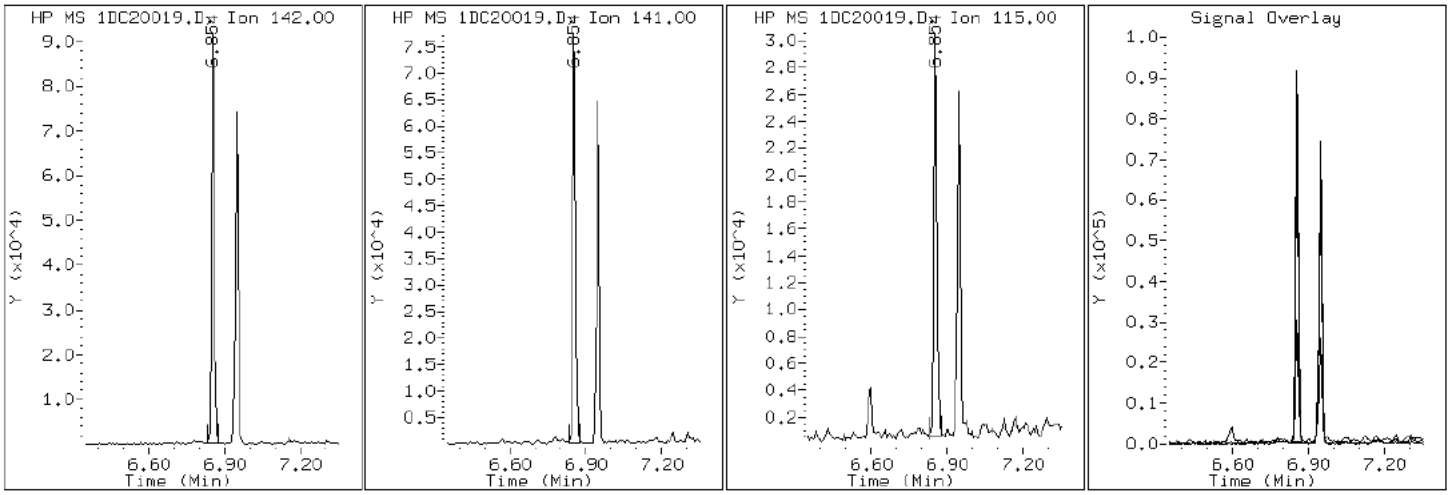
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

3 2-Methylnaphthalene



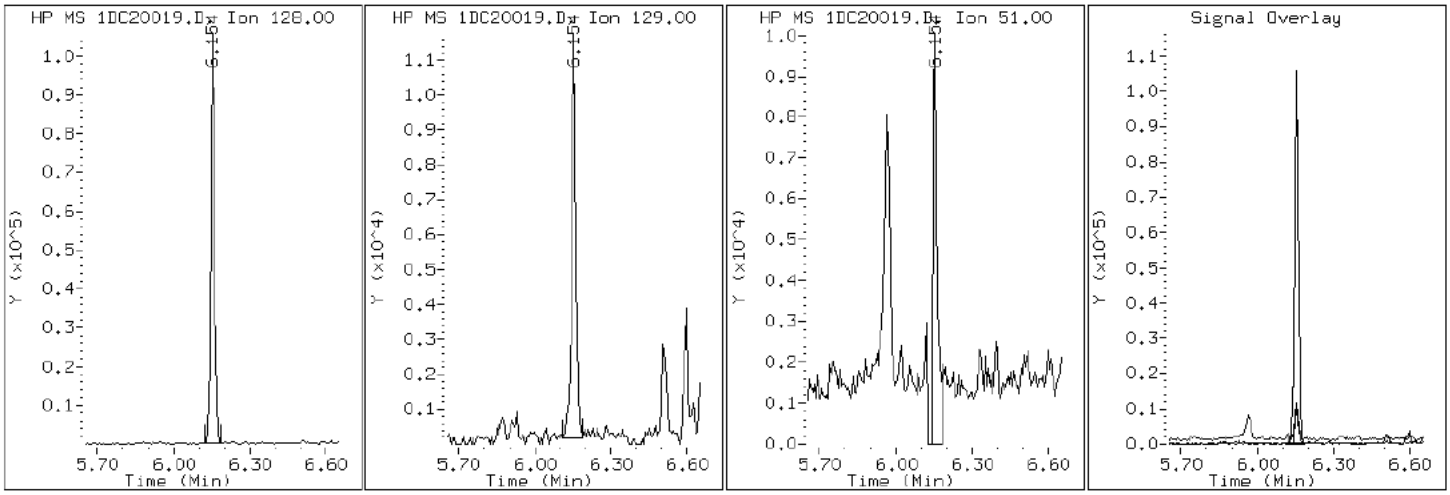
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

2 Naphthalene



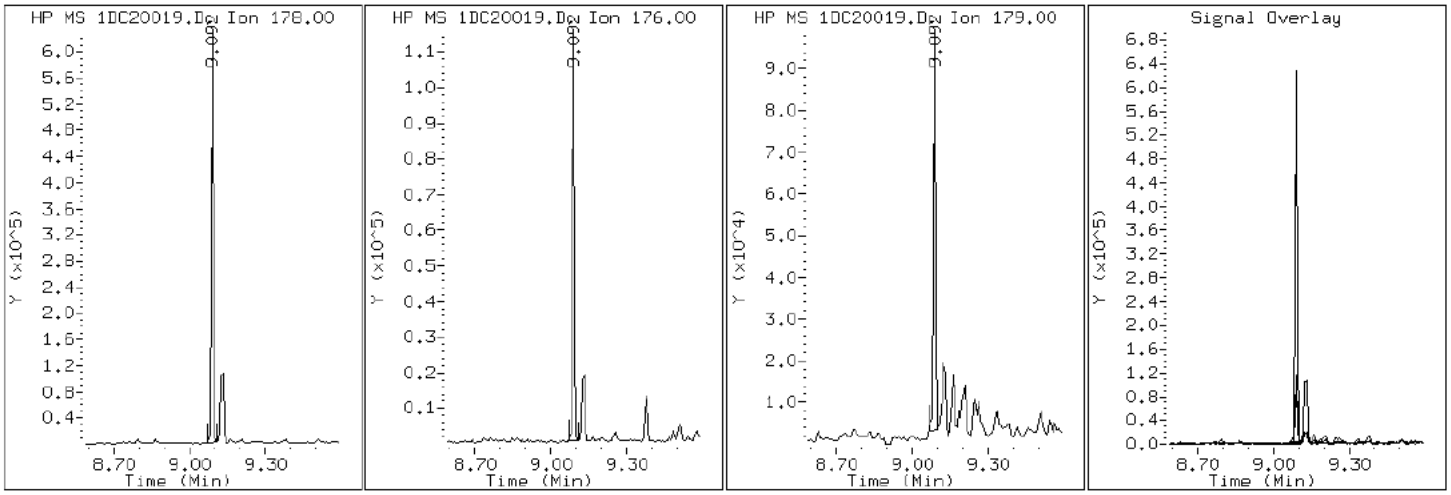
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

10 Phenanthrene



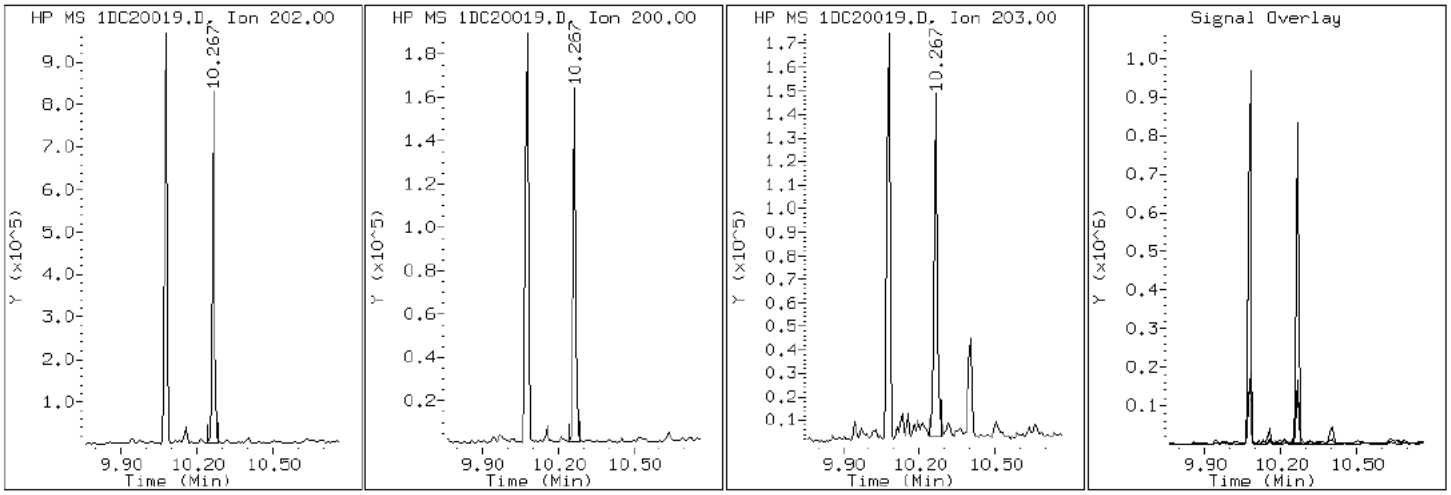
Data File: 1DC20019.D

Date: 20-MAR-2013 18:32

Client ID: CV1199A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-13-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20019.D
Inj. Date and Time: 20-MAR-2013 18:32
Instrument ID: BSMSD.i
Client ID: CV1199A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

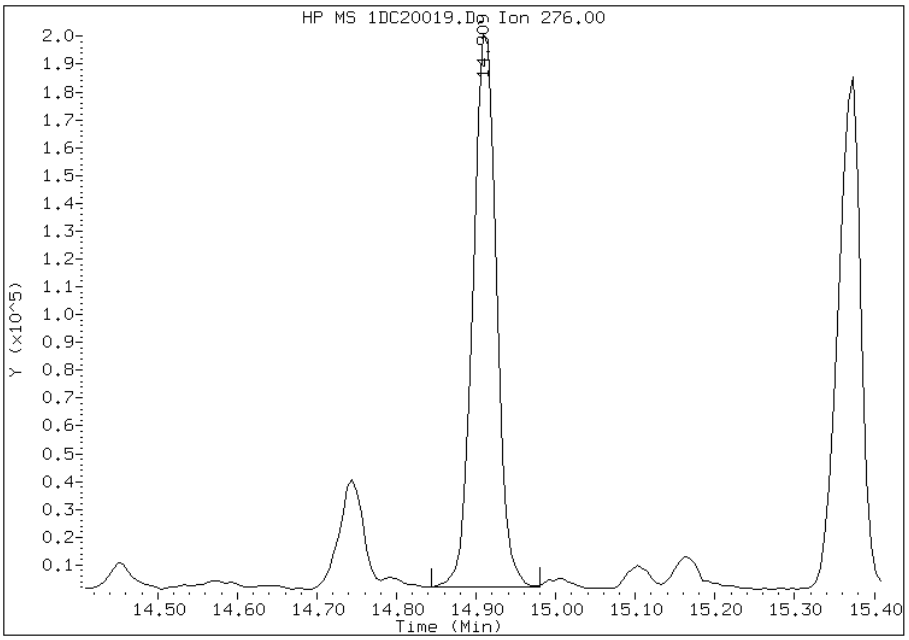
Processing Integration Results

RT: 14.91

Response: 405919

Amount: 5

Conc: 472



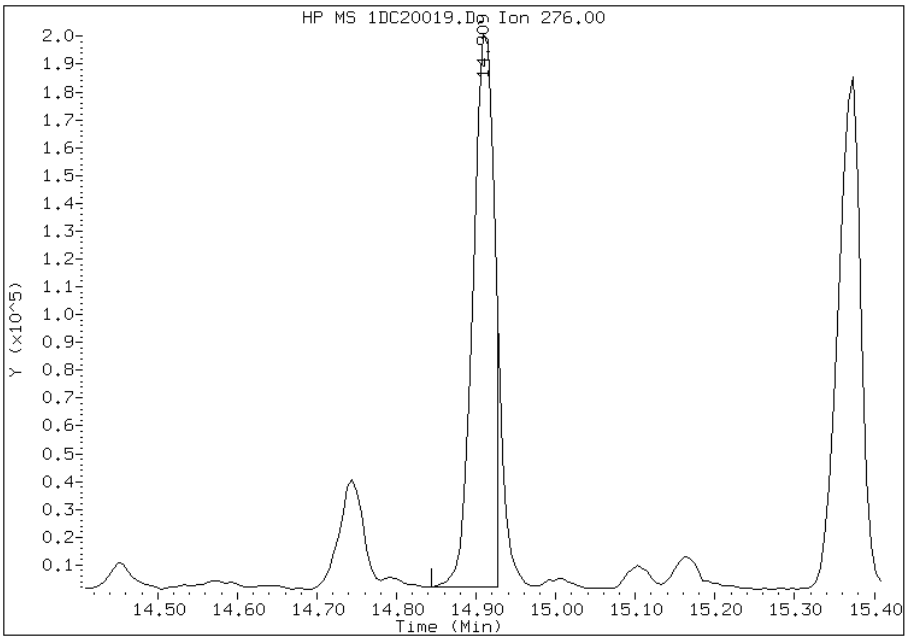
Manual Integration Results

RT: 14.91

Response: 371066

Amount: 4

Conc: 432



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1199B-CS | Lab Sample ID: 680-88298-14

Matrix: Solid | Lab File ID: 1DC20020.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 12:45

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.36(g) | Date Analyzed: 03/20/2013 18:55

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.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	66	J	200	25
120-12-7	Anthracene	150		42	21
56-55-3	Benzo[a]anthracene	1000		40	19
50-32-8	Benzo[a]pyrene	1400		52	26
205-99-2	Benzo[b]fluoranthene	3000		61	30
191-24-2	Benzo[g,h,i]perylene	1200		100	22
207-08-9	Benzo[k]fluoranthene	890		40	18
218-01-9	Chrysene	1300		45	22
53-70-3	Dibenz(a,h)anthracene	400		100	20
206-44-0	Fluoranthene	1200		100	20
86-73-7	Fluorene	40	J	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	1100		100	35
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	250		200	35
91-20-3	Naphthalene	190	J	200	22
85-01-8	Phenanthrene	670		40	19
129-00-0	Pyrene	1000		100	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20020.D
Lab Smp Id: 680-88298-A-14-A Client Smp ID: CV1199B-CS
Inj Date : 20-MAR-2013 18:55
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-14-A
Misc Info : 680-88298-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.360	Weight Extracted
M	21.729	% 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	6.139	6.131	(1.000)	3429848	40.0000	
* 6	Acenaphthene-d10	164	7.814	7.805	(1.000)	2230806	40.0000	
* 9	Phenanthrene-d10	188	9.077	9.068	(1.000)	3719913	40.0000	
$ 13	o-Terphenyl	230	9.377	9.380	(1.033)	90428	1.57198	520
* 17	Chrysene-d12	240	11.421	11.413	(1.000)	3832385	40.0000	
* 22	Perylene-d12	264	13.295	13.281	(1.000)	3336016	40.0000	
2	Naphthalene	128	6.157	6.154	(1.003)	52142	0.56830	190
3	2-Methylnaphthalene	142	6.856	6.853	(1.117)	44568	0.76255	250
4	1-Methylnaphthalene	142	6.950	6.947	(1.132)	36000	0.65777	220
5	Acenaphthylene	152	7.679	7.682	(0.983)	19415	0.19741	66
8	Fluorene	166	8.278	8.275	(1.059)	8525	0.12167	40
10	Phenanthrene	178	9.089	9.092	(1.001)	212741	2.01467	670
11	Anthracene	178	9.130	9.133	(1.006)	48661	0.46058	150
12	Carbazole	167	9.271	9.268	(1.021)	20032	0.21210	70

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.076	10.073	(1.110)	397505	3.60721	1200
15 Pyrene	202	10.264	10.261	(0.899)	363659	3.05912	1000
16 Benzo(a)anthracene	228	11.398	11.389	(0.998)	318118	3.03194	1000
18 Chrysene	228	11.439	11.436	(1.002)	410484	3.78951	1300
19 Benzo(b)fluoranthene	252	12.731	12.723	(0.958)	775438	9.03054	3000
20 Benzo(k)fluoranthene	252	12.761	12.764	(0.960)	240827	2.67862	890
21 Benzo(a)pyrene	252	13.190	13.181	(0.992)	361723	4.25688	1400
23 Indeno(1,2,3-cd)pyrene	276	14.905	14.903	(1.121)	301864	3.32879	1100(M)
24 Dibenzo(a,h)anthracene	278	14.929	14.932	(1.123)	101059	1.20671	400
25 Benzo(g,h,i)perylene	276	15.364	15.361	(1.156)	301555	3.48778	1200

QC Flag Legend

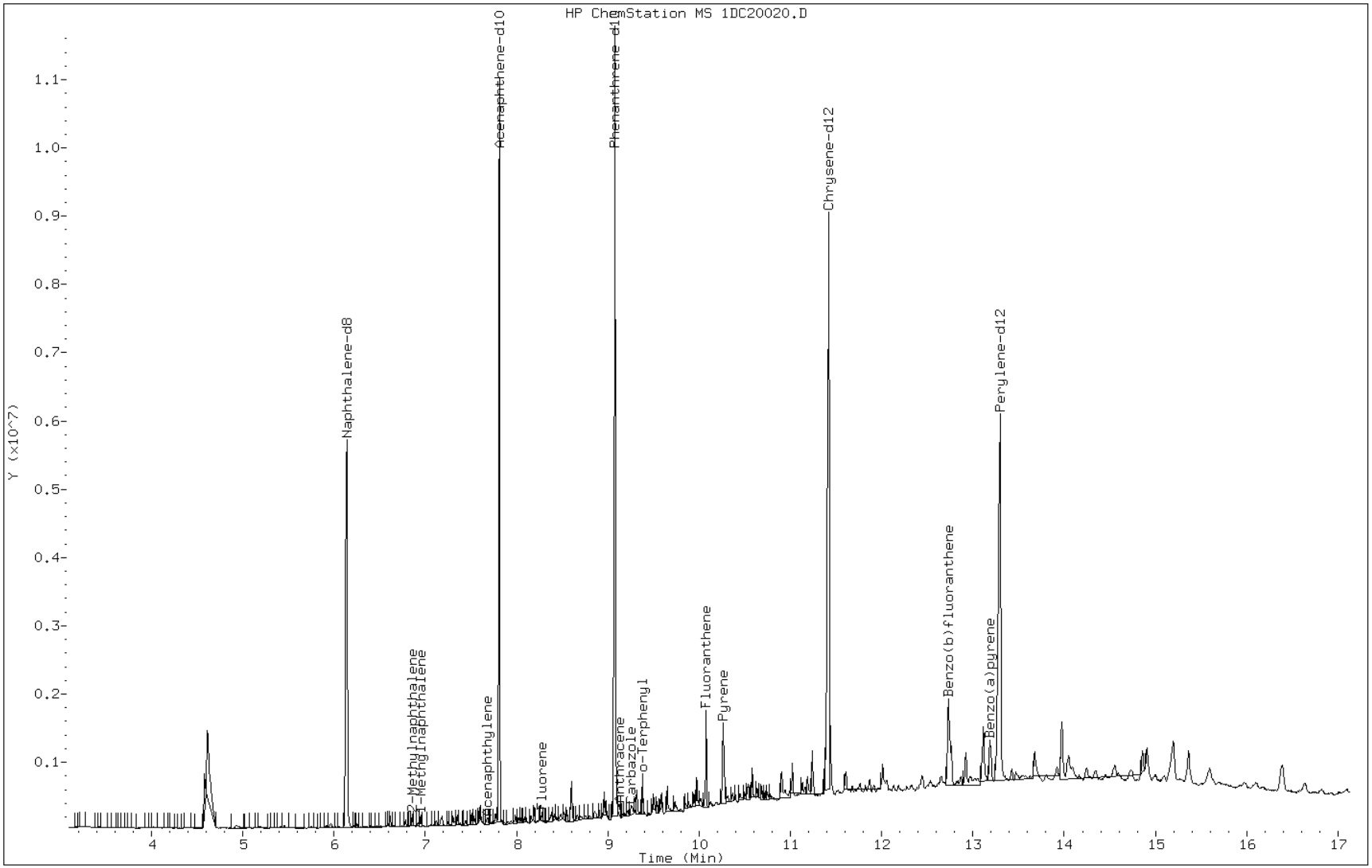
M - Compound response manually integrated.

Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC



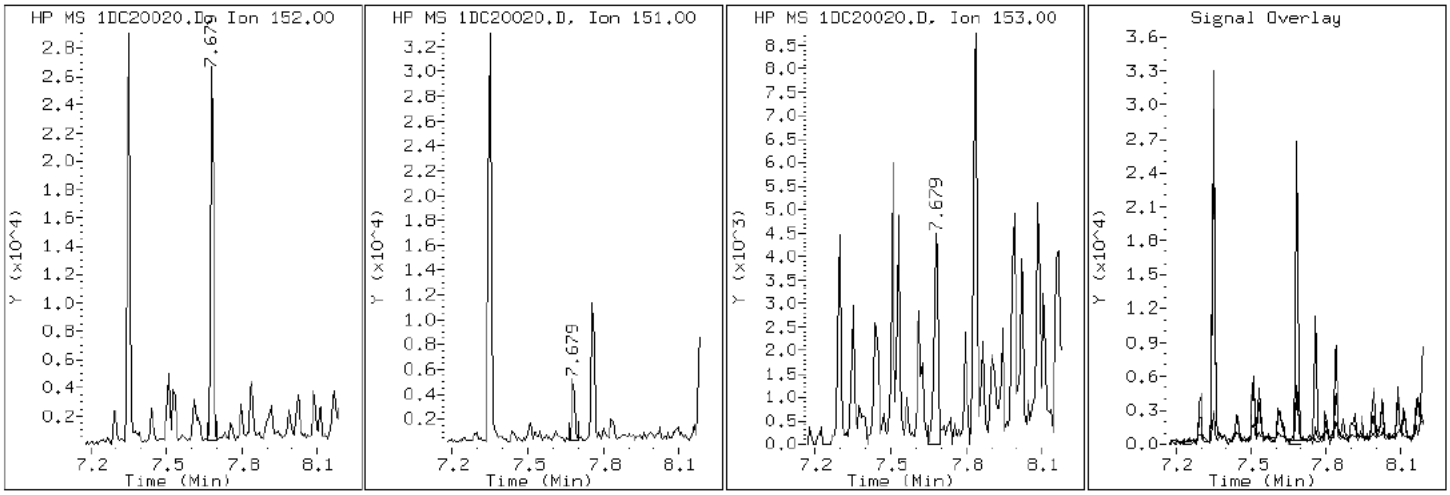
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

5 Acenaphthylene



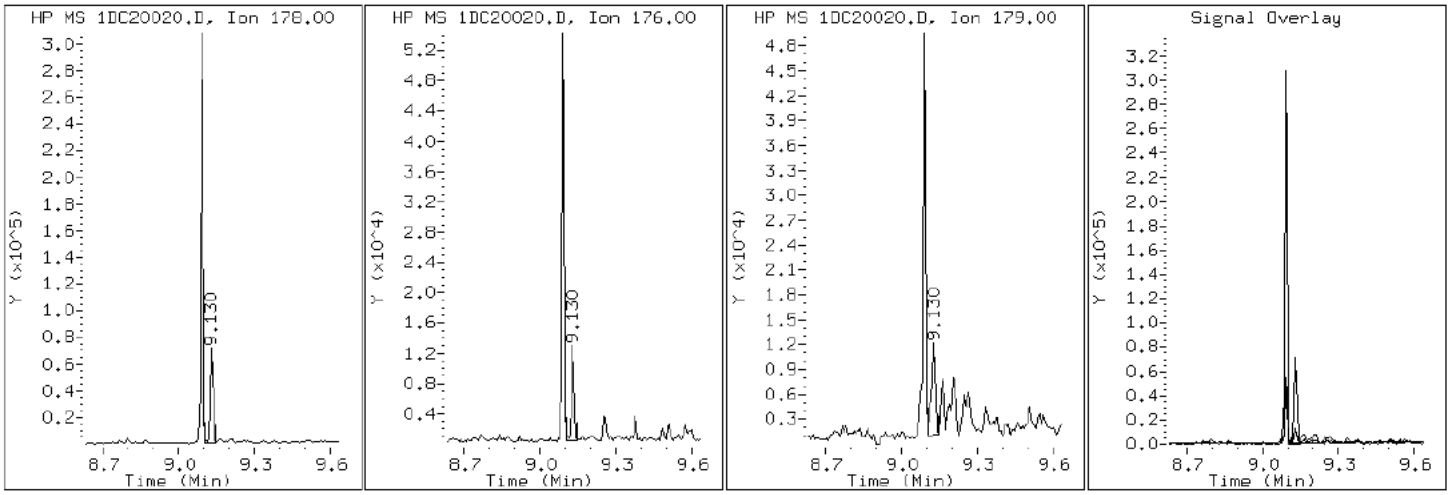
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

11 Anthracene



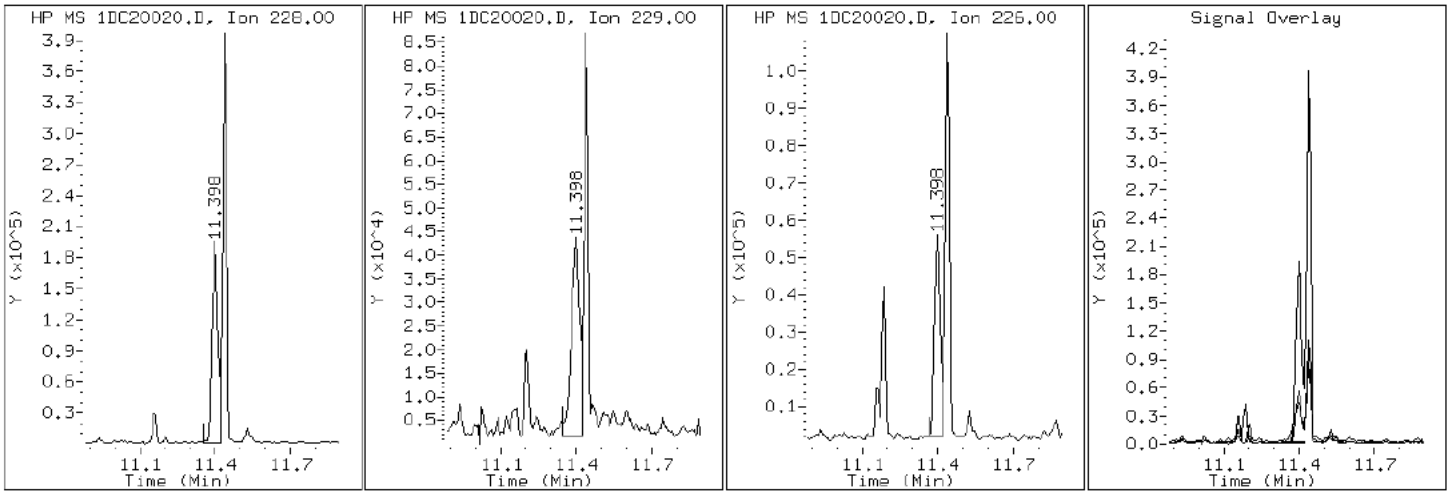
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

16 Benzo(a)anthracene



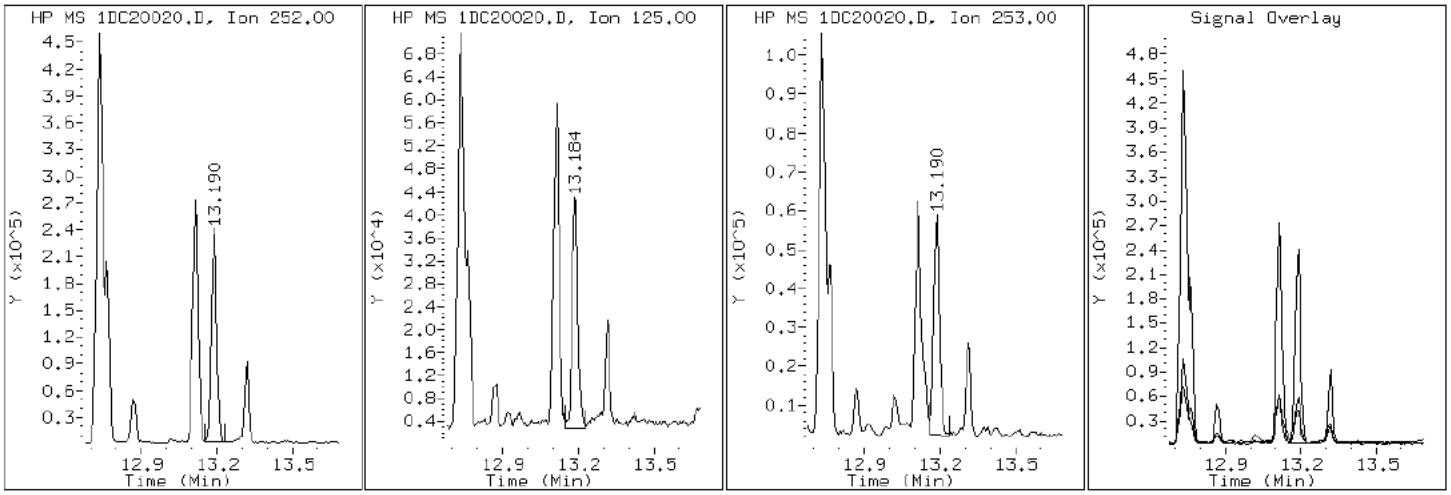
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

21 Benzo(a)pyrene



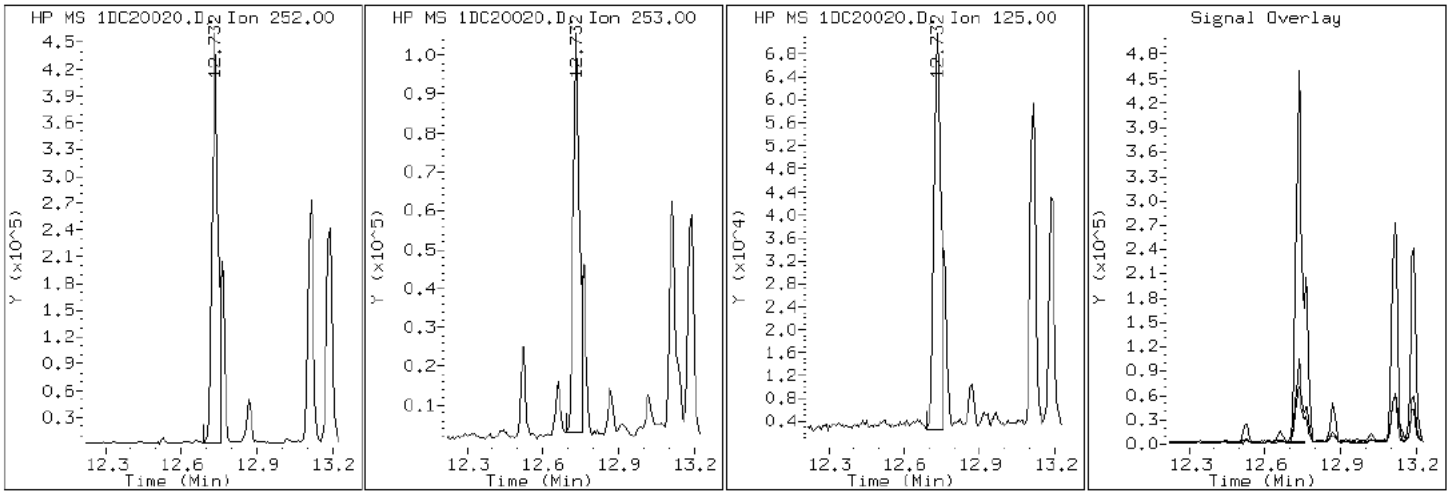
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

19 Benzo(b)fluoranthene



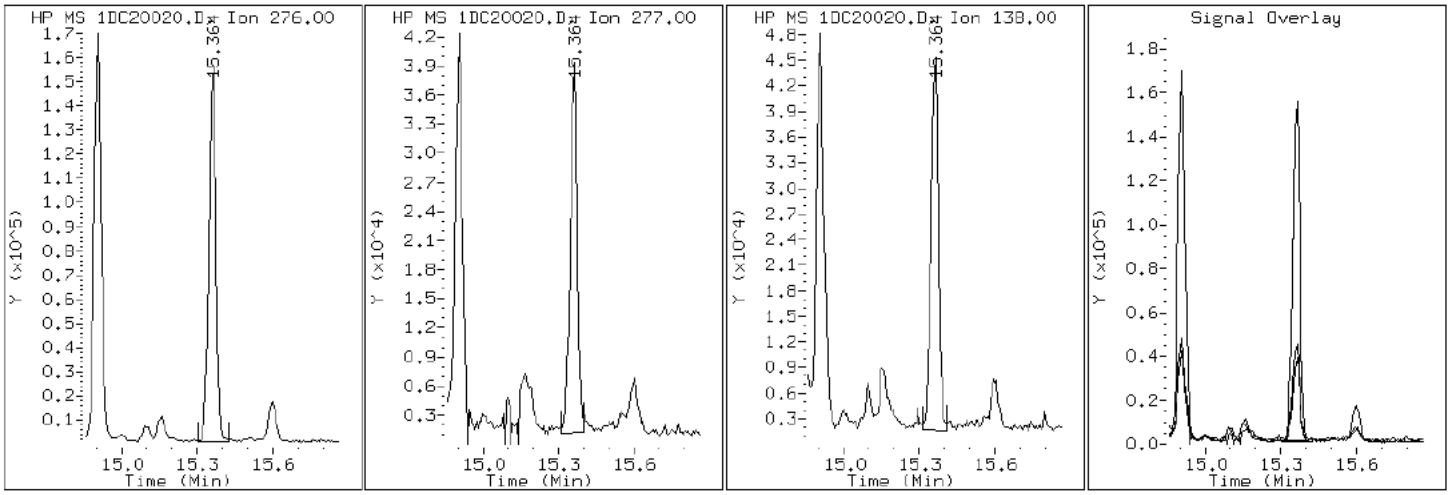
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

25 Benzo(g,h,i)perylene



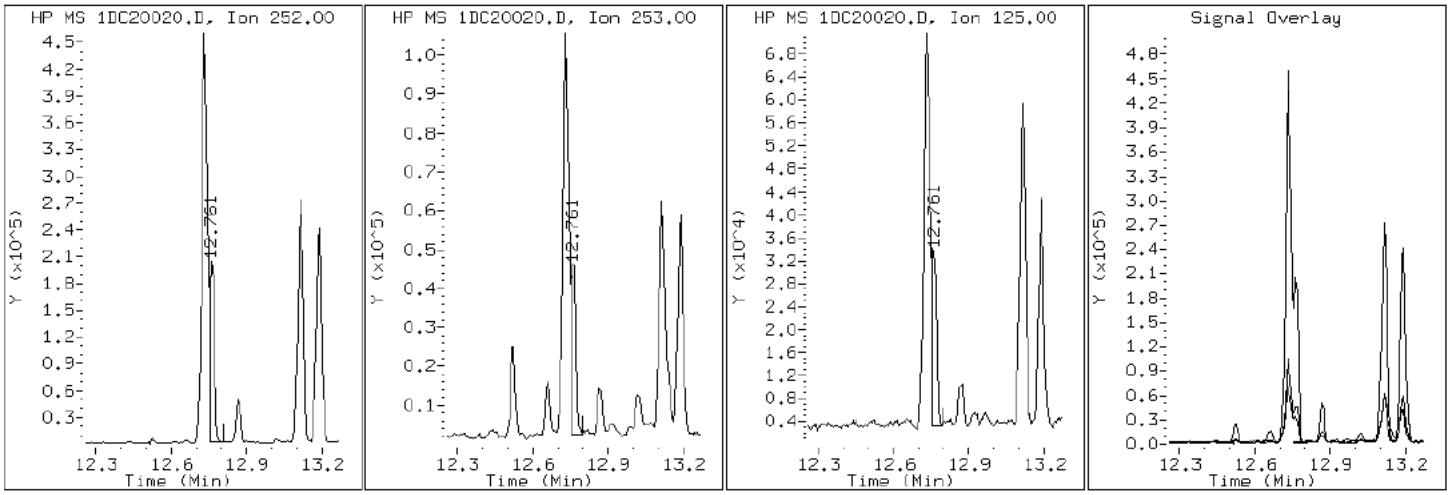
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

20 Benzo(k)fluoranthene



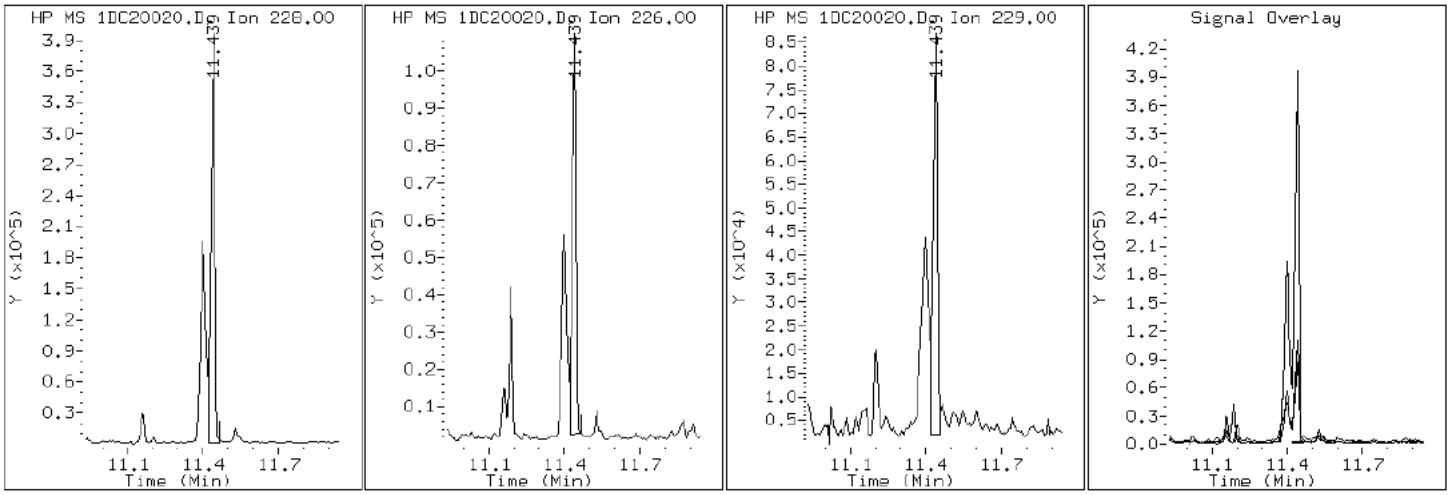
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

18 Chrysene



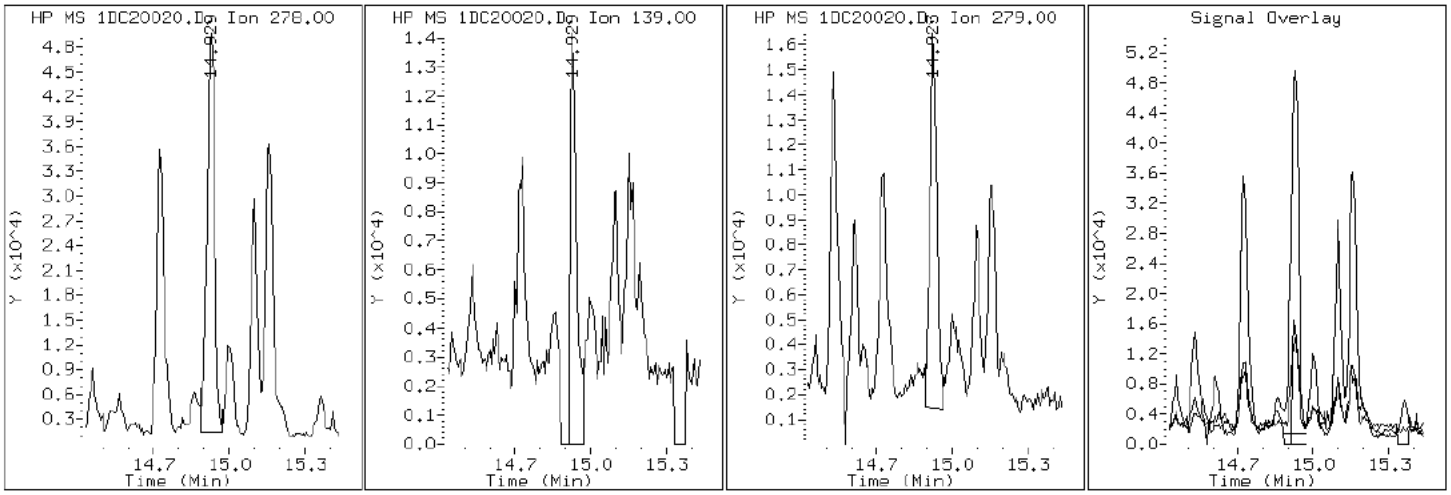
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

24 Dibenzo(a,h)anthracene



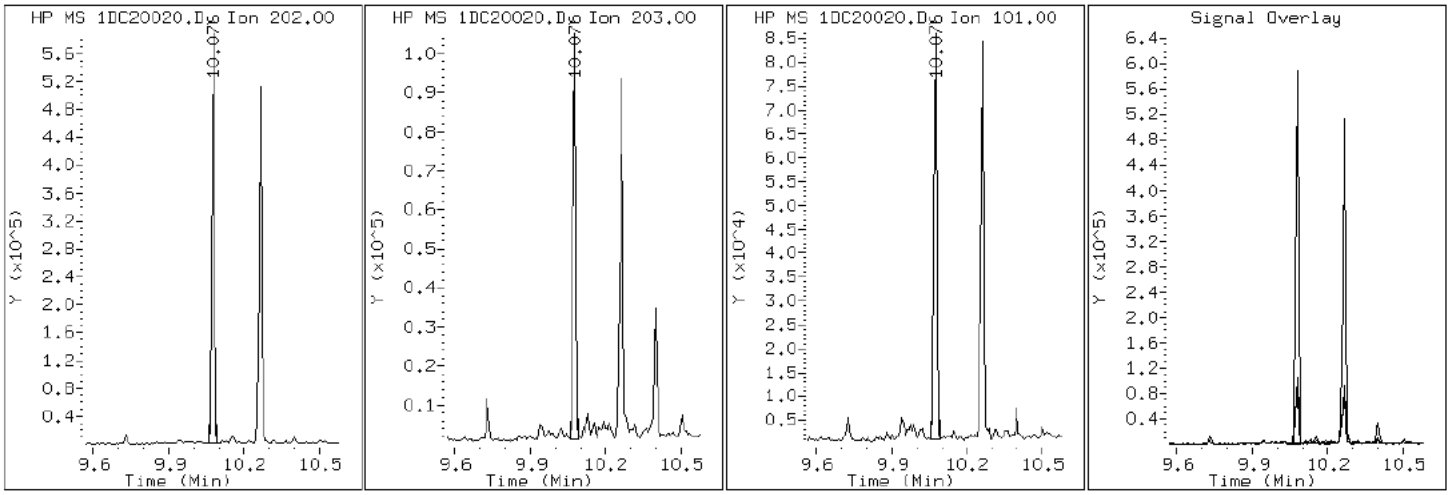
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

14 Fluoranthene



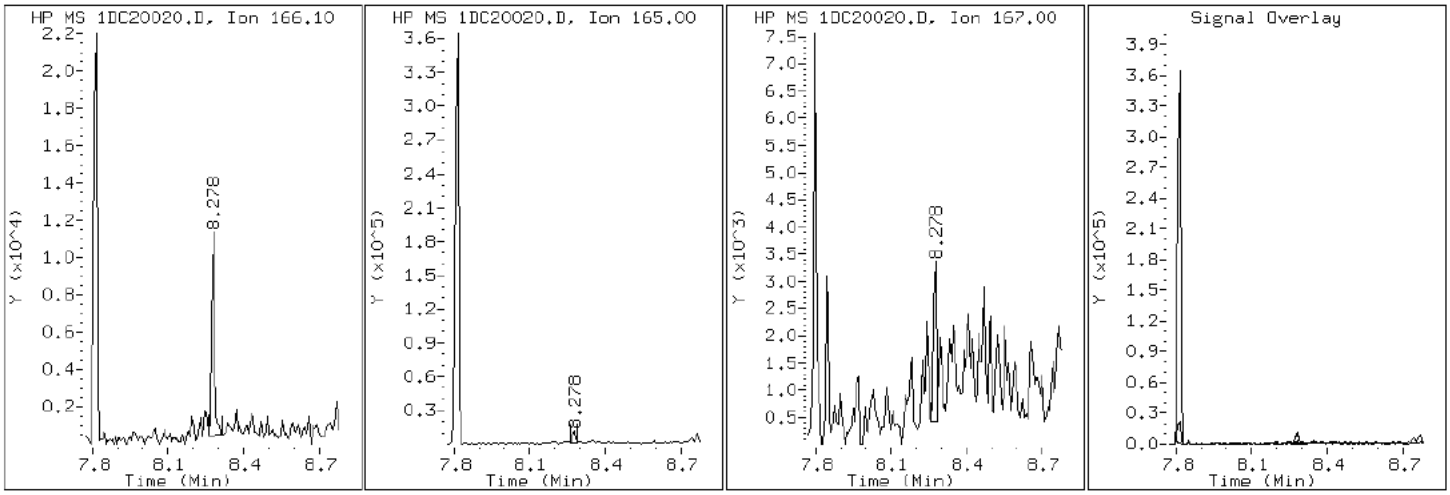
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

8 Fluorene



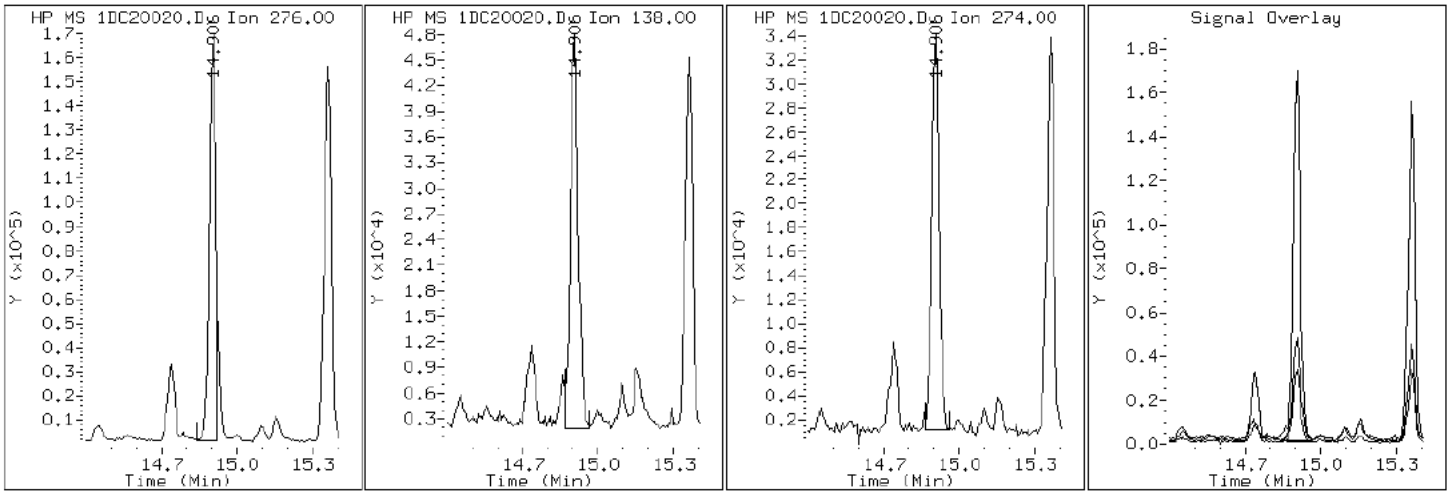
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

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



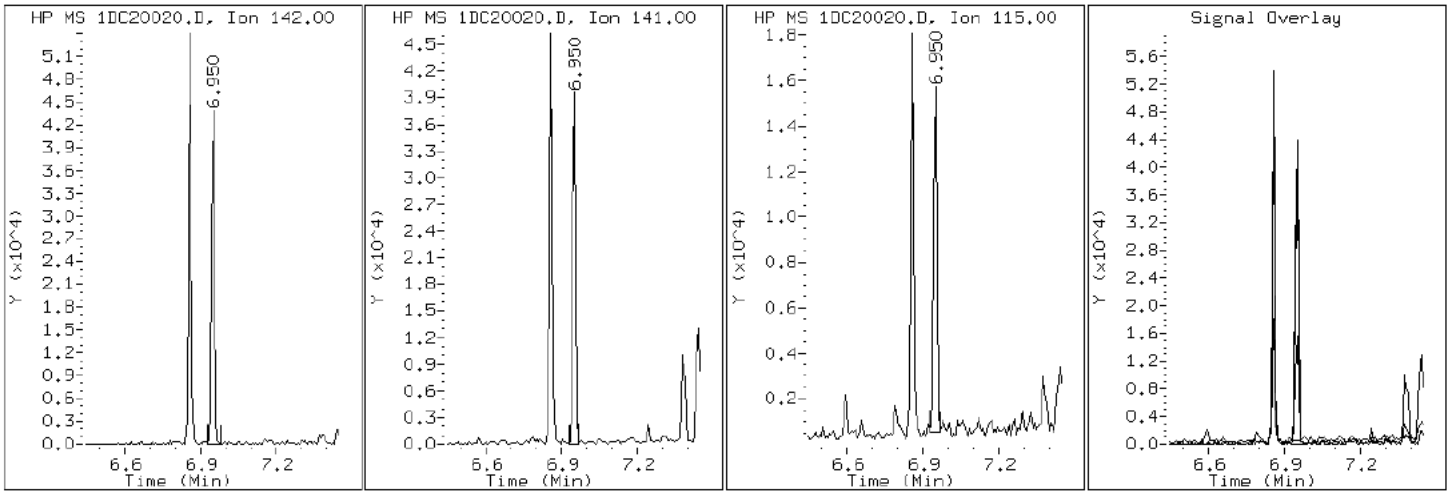
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

4 1-Methylnaphthalene



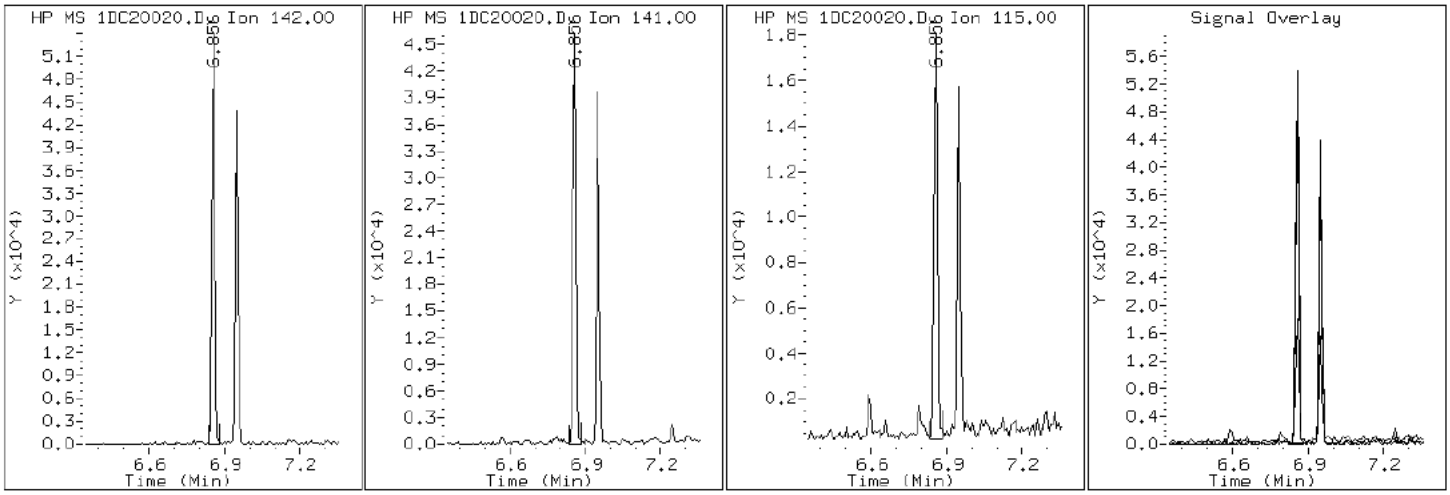
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

3 2-Methylnaphthalene



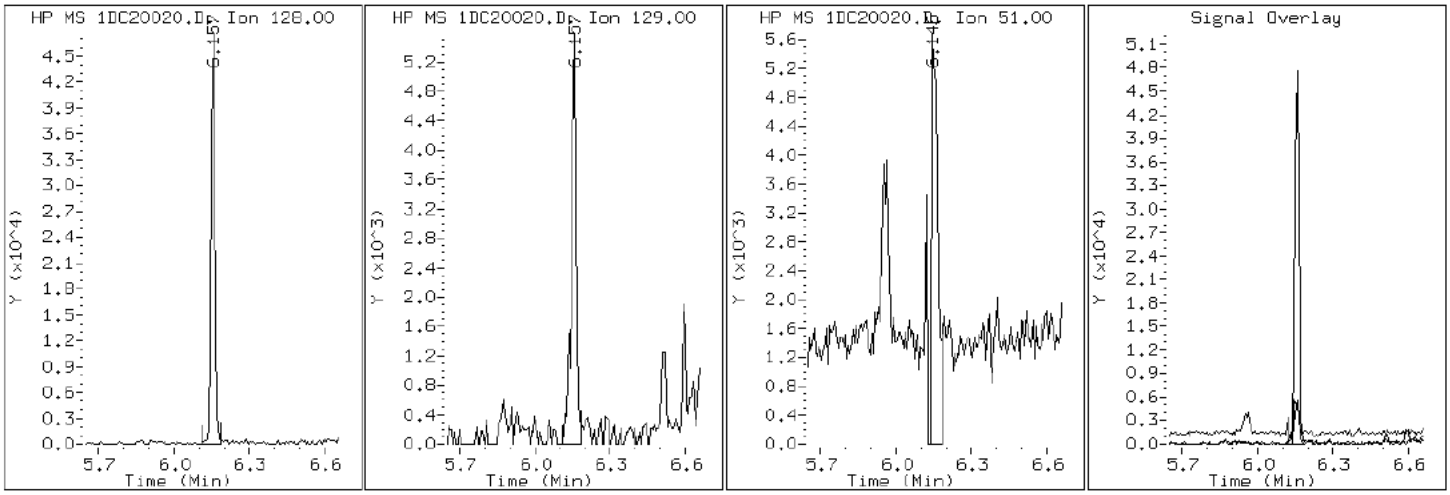
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

2 Naphthalene



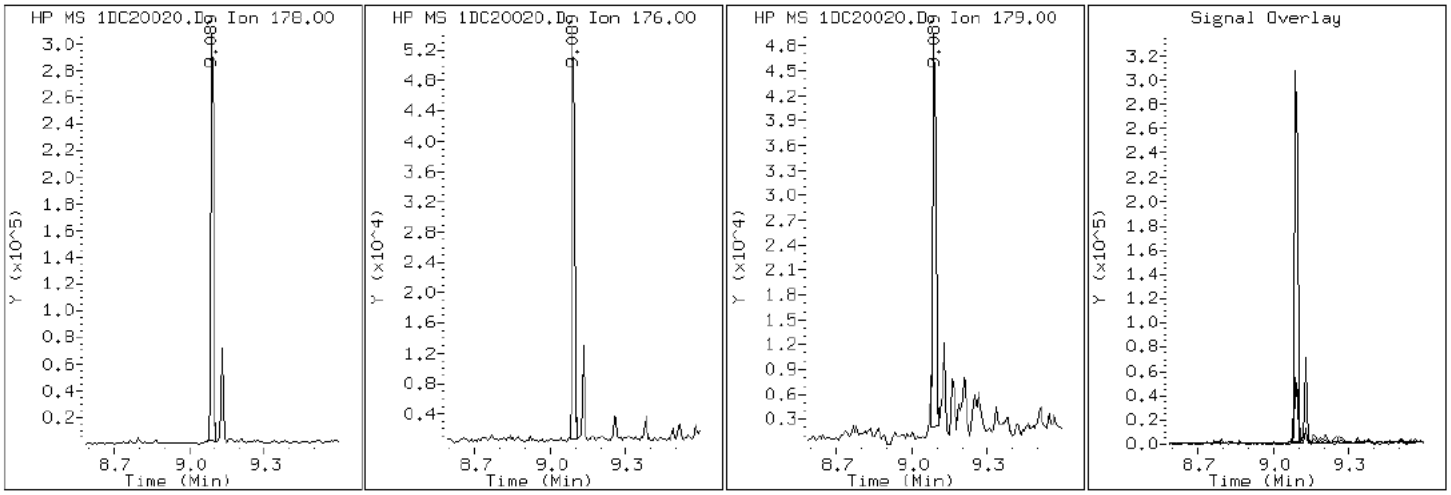
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

10 Phenanthrene



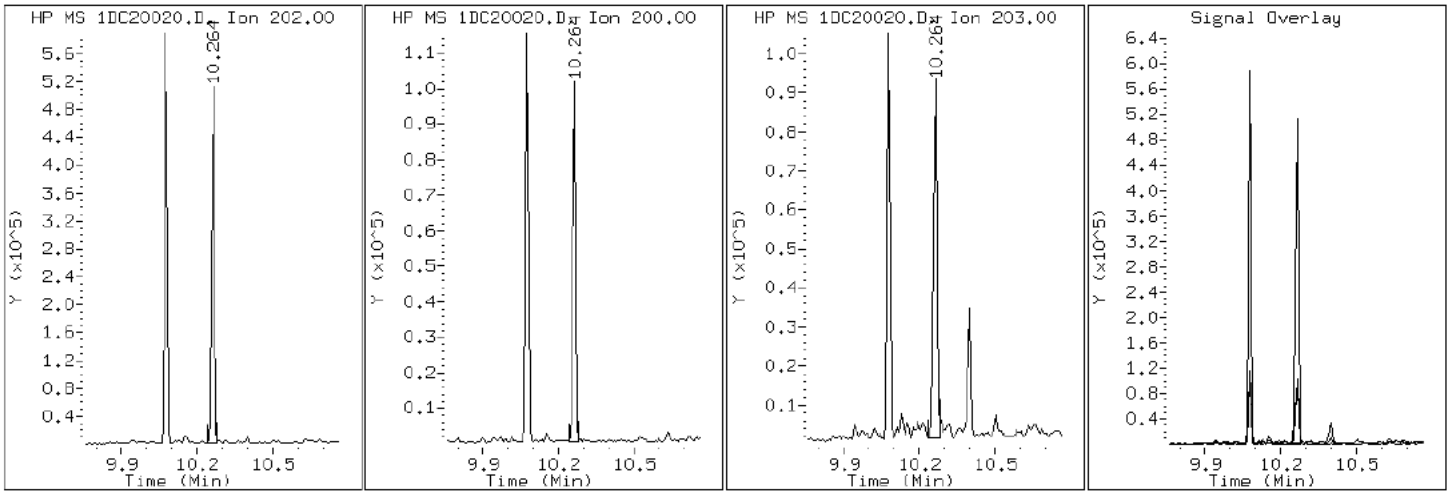
Data File: 1DC20020.D

Date: 20-MAR-2013 18:55

Client ID: CV1199B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-14-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20020.D
Inj. Date and Time: 20-MAR-2013 18:55
Instrument ID: BSMSD.i
Client ID: CV1199B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

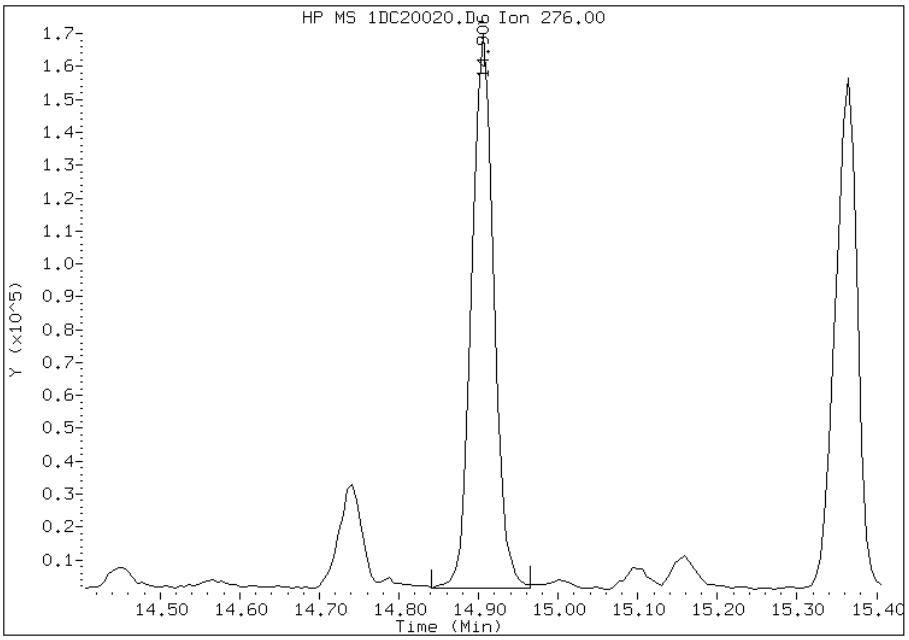
Processing Integration Results

RT: 14.91

Response: 323817

Amount: 4

Conc: 1188



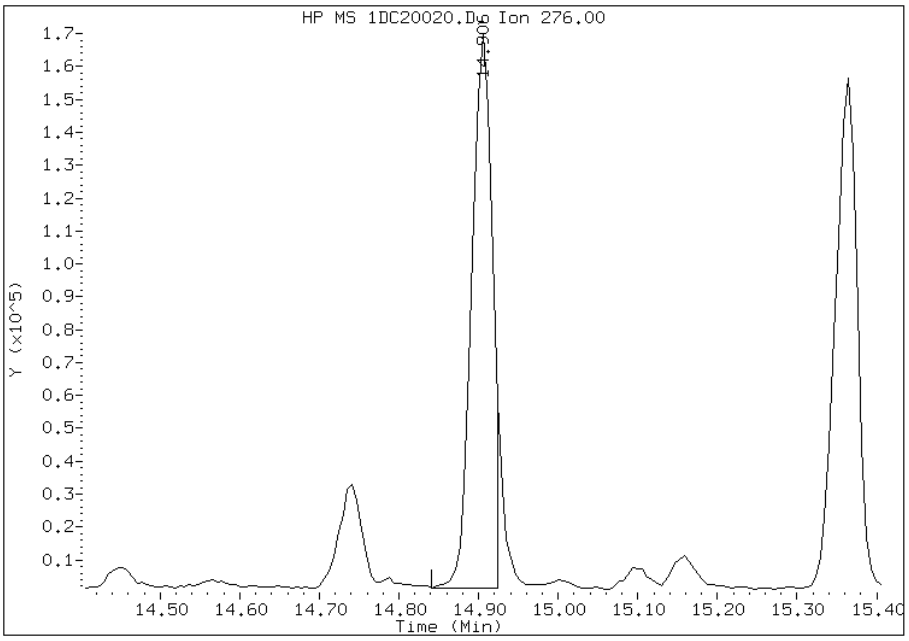
Manual Integration Results

RT: 14.91

Response: 301864

Amount: 3

Conc: 1108



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1310A-CS | Lab Sample ID: 680-88298-15

Matrix: Solid | Lab File ID: 1DC20021.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 13:40

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 14.92(g) | Date Analyzed: 03/20/2013 19:17

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

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

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	47	J	210	26
120-12-7	Anthracene	60		44	22
56-55-3	Benzo[a]anthracene	170		42	20
50-32-8	Benzo[a]pyrene	160		54	27
205-99-2	Benzo[b]fluoranthene	320		63	32
191-24-2	Benzo[g,h,i]perylene	80	J	100	23
207-08-9	Benzo[k]fluoranthene	110		42	19
218-01-9	Chrysene	210		47	23
53-70-3	Dibenz(a,h)anthracene	36	J	100	21
206-44-0	Fluoranthene	200		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	77	J	100	37
90-12-0	1-Methylnaphthalene	55	J	210	23
91-57-6	2-Methylnaphthalene	73	J	210	37
91-20-3	Naphthalene	85	J	210	23
85-01-8	Phenanthrene	110		42	20
129-00-0	Pyrene	180		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20021.D
Lab Smp Id: 680-88298-A-15-A Client Smp ID: CV1310A-CS
Inj Date : 20-MAR-2013 19:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-15-A
Misc Info : 680-88298-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	22.634	% 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	6.135	6.131	(1.000)	3075227	40.0000	
* 6	Acenaphthene-d10	164	7.810	7.805	(1.000)	1964013	40.0000	
* 9	Phenanthrene-d10	188	9.073	9.068	(1.000)	3266292	40.0000	
$ 13	o-Terphenyl	230	9.379	9.380	(1.034)	87852	1.73930	600
* 17	Chrysene-d12	240	11.418	11.413	(1.000)	3301503	40.0000	
* 22	Perylene-d12	264	13.286	13.281	(1.000)	2794959	40.0000	
2	Naphthalene	128	6.153	6.154	(1.003)	20192	0.24545	85
3	2-Methylnaphthalene	142	6.858	6.853	(1.118)	11013	0.21016	73
4	1-Methylnaphthalene	142	6.946	6.947	(1.132)	7785	0.15864	55
5	Acenaphthylene	152	7.681	7.682	(0.983)	11799	0.13627	47
10	Phenanthrene	178	9.091	9.092	(1.002)	29868	0.32213	110
11	Anthracene	178	9.132	9.133	(1.006)	16013	0.17261	60
12	Carbazole	167	9.267	9.268	(1.021)	6453	0.07781	27
14	Fluoranthene	202	10.072	10.073	(1.110)	54727	0.56560	200

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.266	10.261	(0.899)	52320	0.51089	180
16 Benzo(a)anthracene	228	11.400	11.389	(0.998)	43338	0.47947	170
18 Chrysene	228	11.435	11.436	(1.002)	56521	0.60569	210
19 Benzo(b)fluoranthene	252	12.722	12.723	(0.958)	65405	0.90914	320
20 Benzo(k)fluoranthene	252	12.757	12.764	(0.960)	23458	0.31142	110
21 Benzo(a)pyrene	252	13.180	13.181	(0.992)	32490	0.45637	160
23 Indeno(1,2,3-cd)pyrene	276	14.890	14.903	(1.121)	16918	0.22268	77(M)
24 Dibenzo(a,h)anthracene	278	14.913	14.932	(1.122)	7218	0.10287	36
25 Benzo(g,h,i)perylene	276	15.342	15.361	(1.155)	16714	0.23074	80(H)

QC Flag Legend

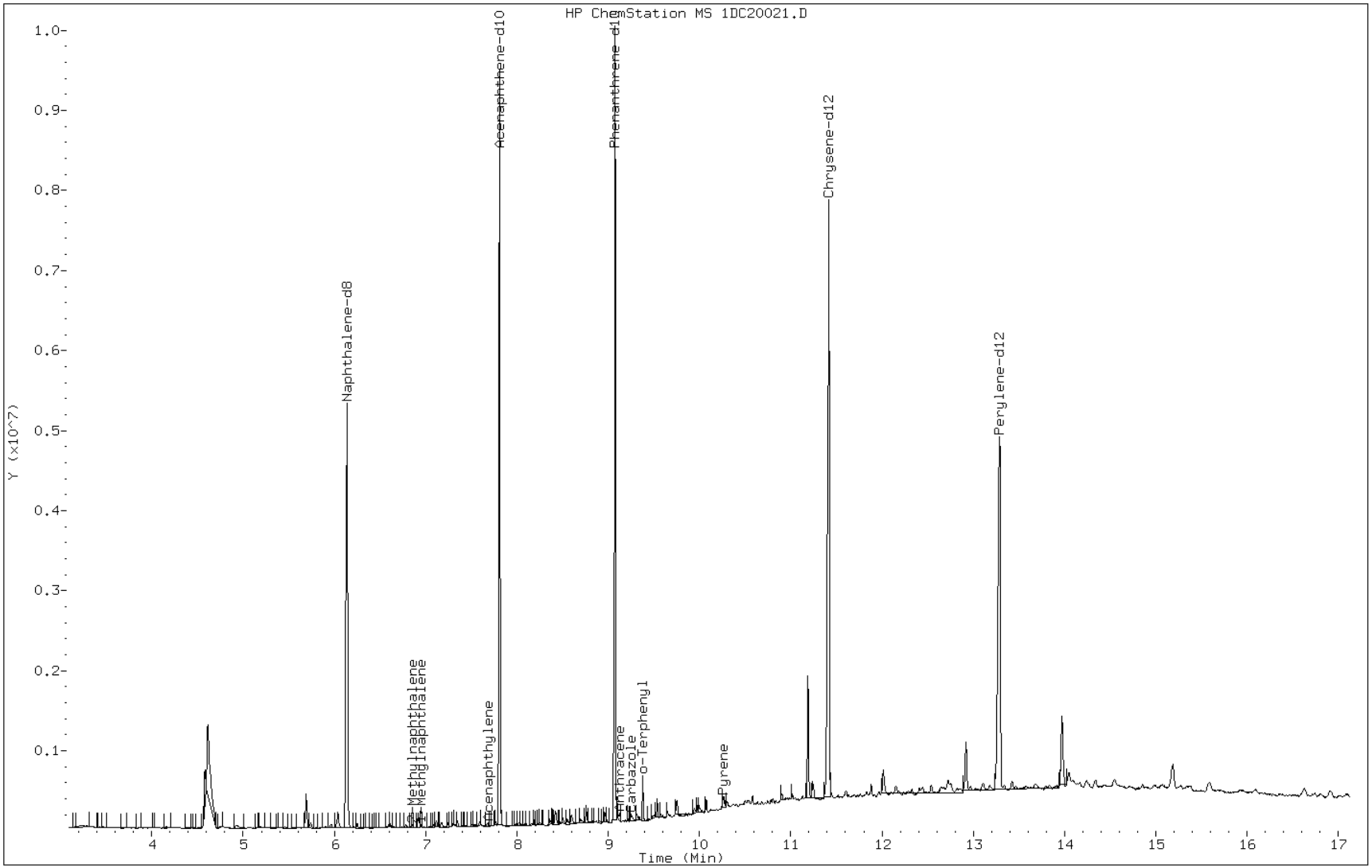
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC



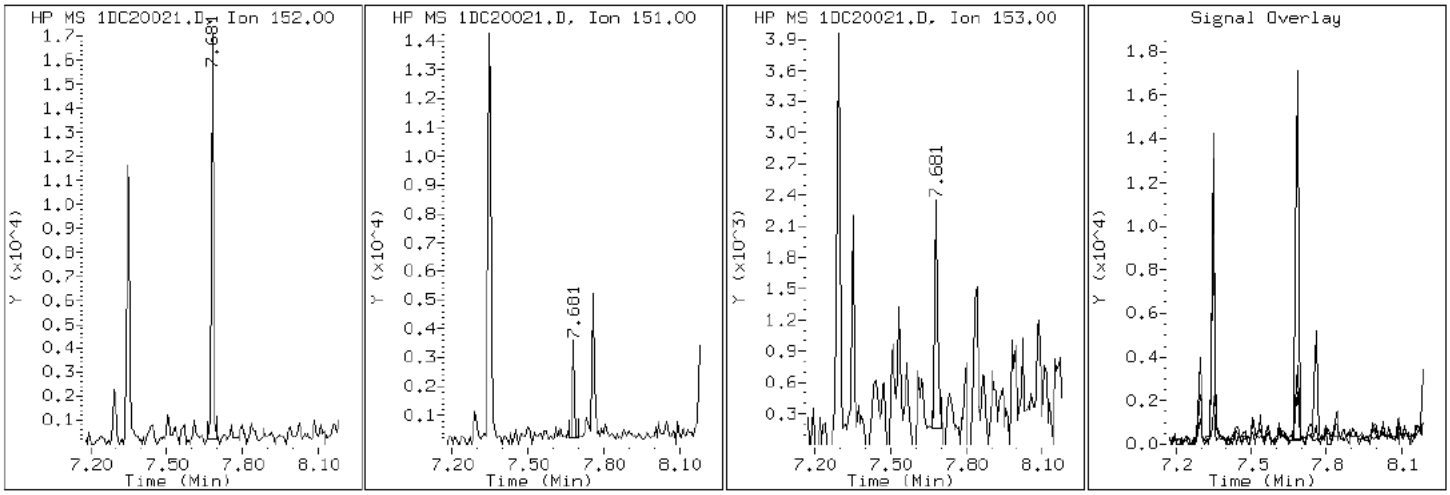
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

5 Acenaphthylene



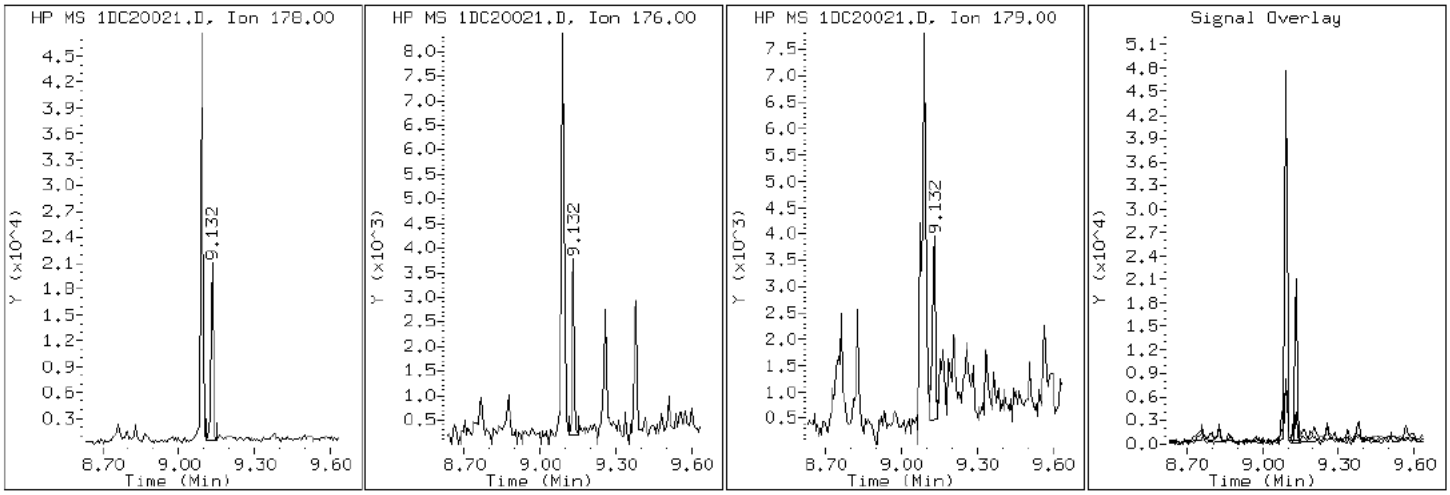
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

11 Anthracene



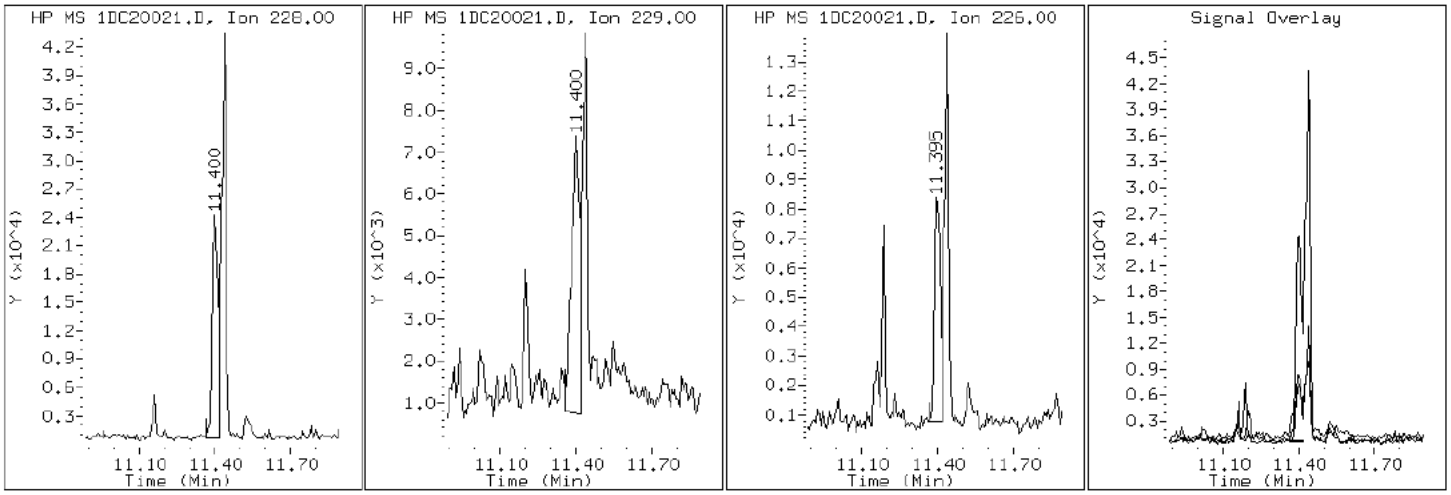
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

16 Benzo(a)anthracene



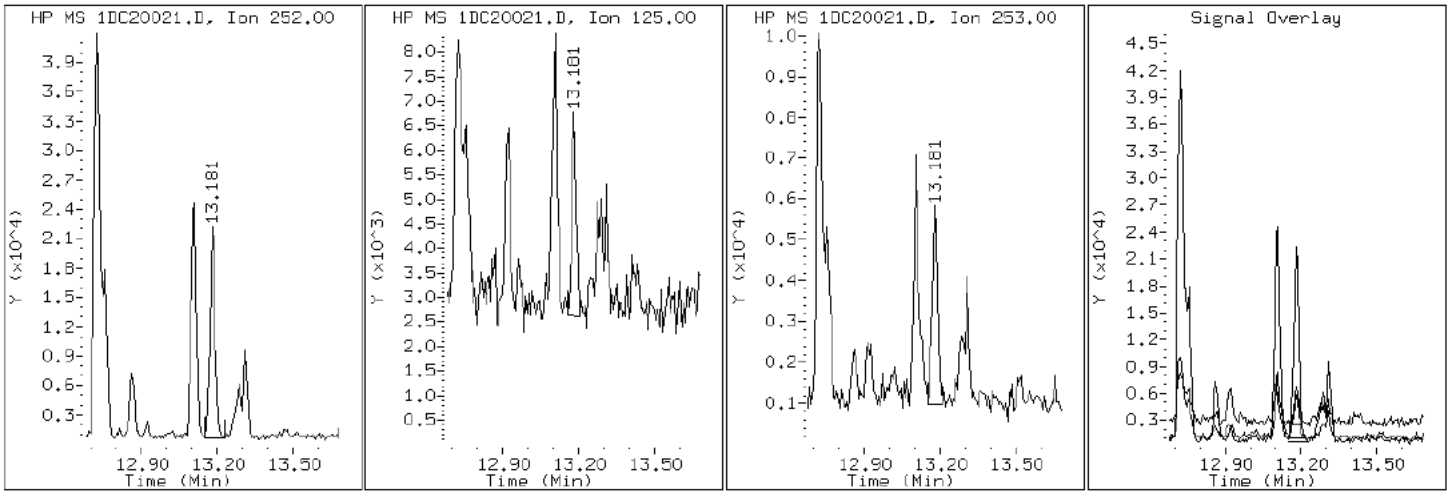
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

21 Benzo(a)pyrene



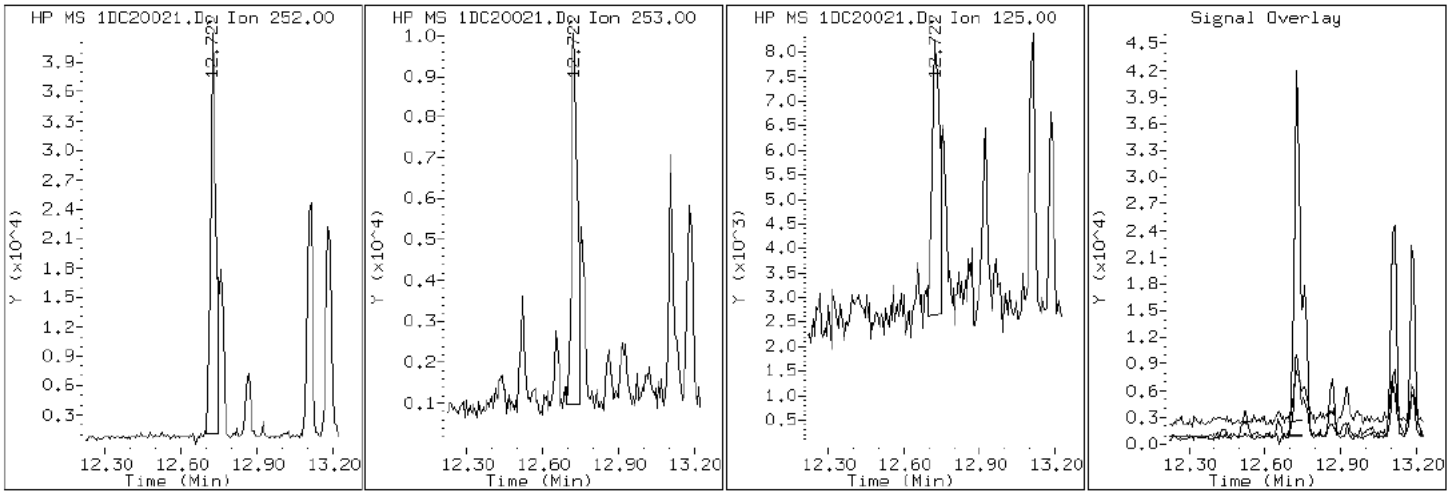
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

19 Benzo(b)fluoranthene



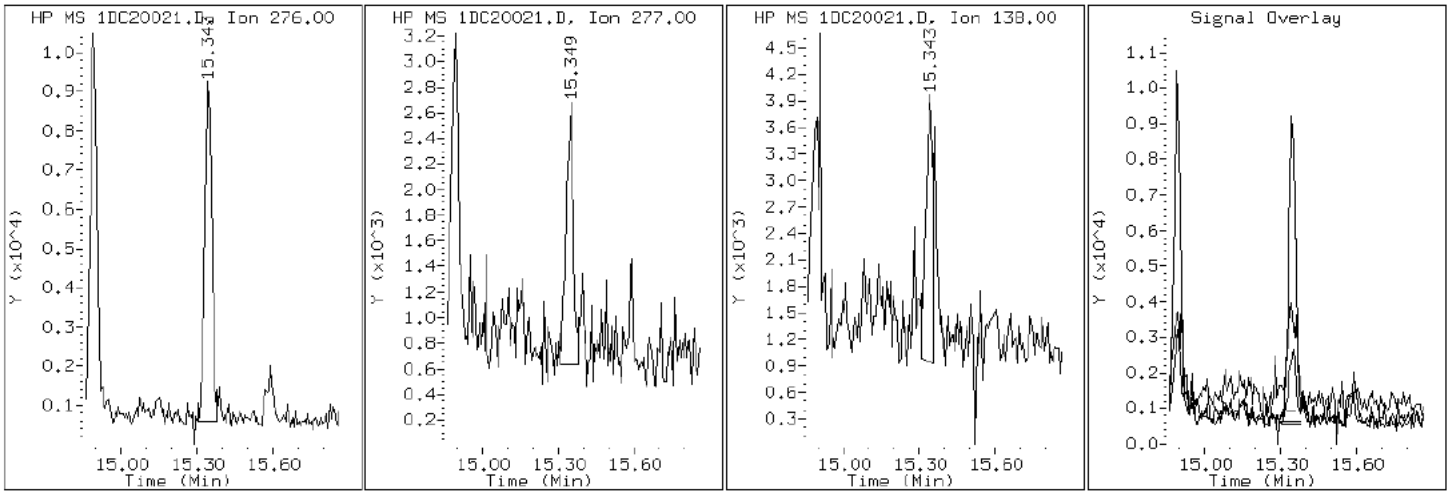
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

25 Benzo(g,h,i)perylene



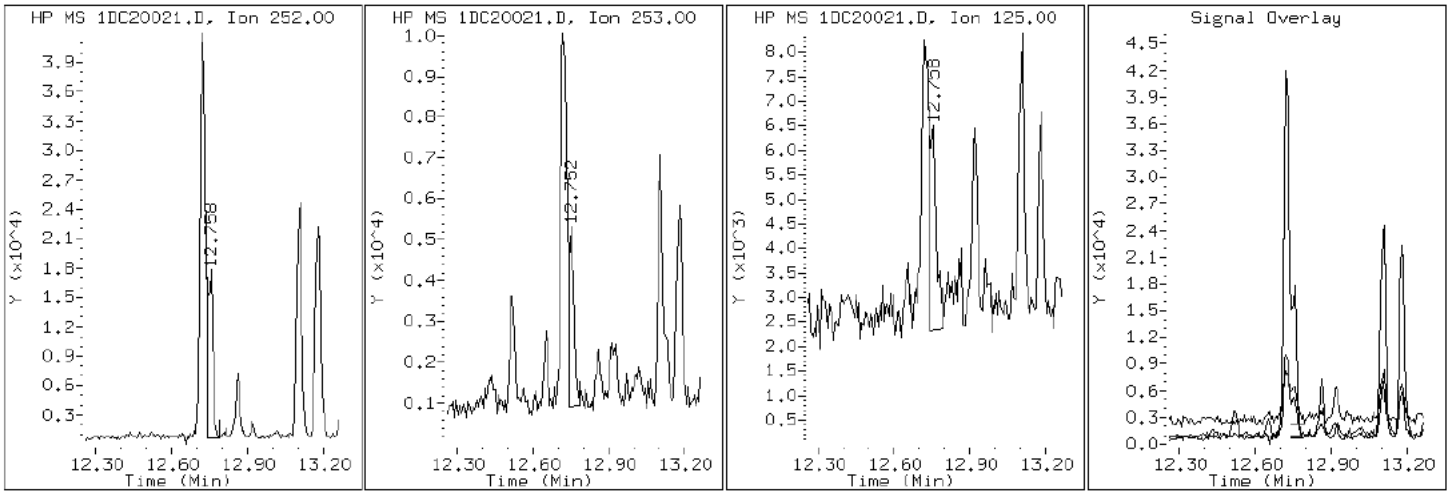
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

20 Benzo(k)fluoranthene



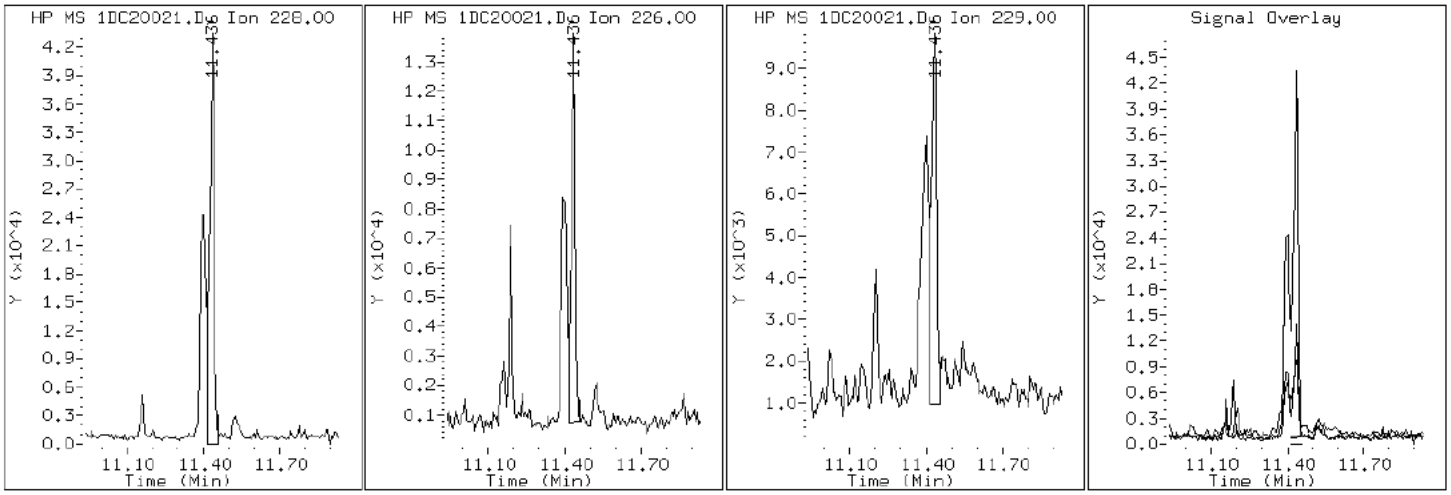
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

18 Chrysene



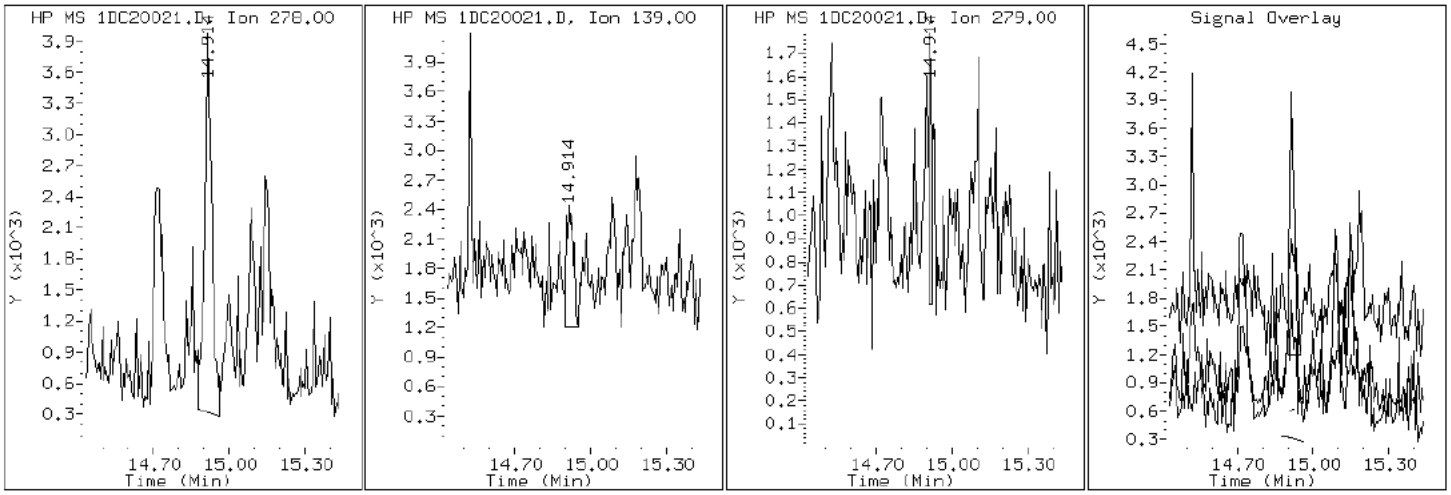
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

24 Dibenzo(a,h)anthracene



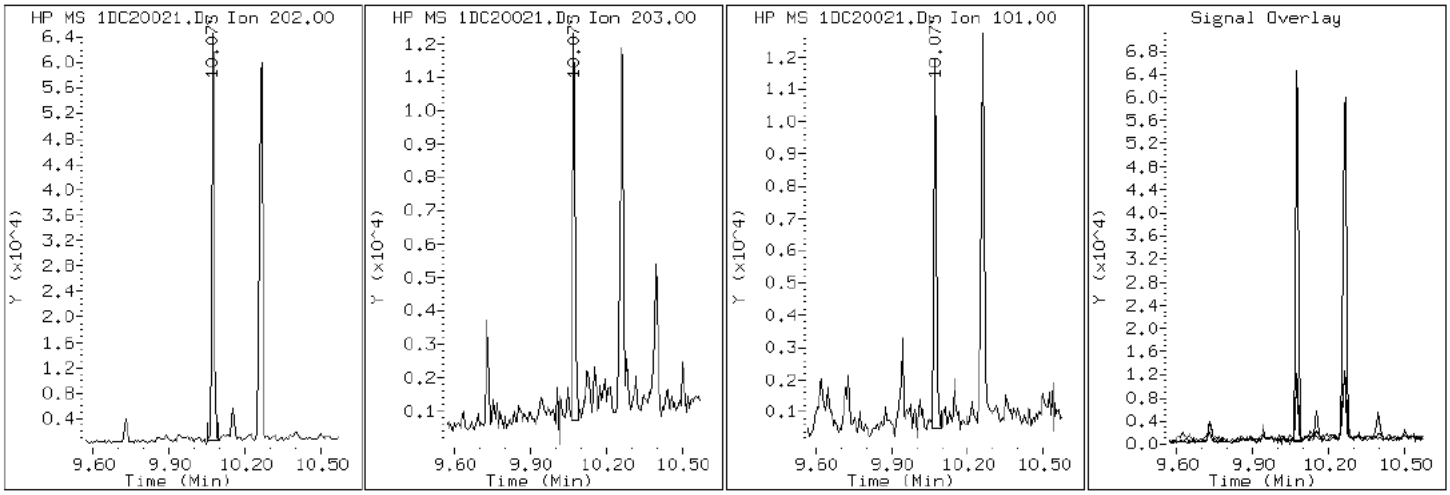
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

14 Fluoranthene



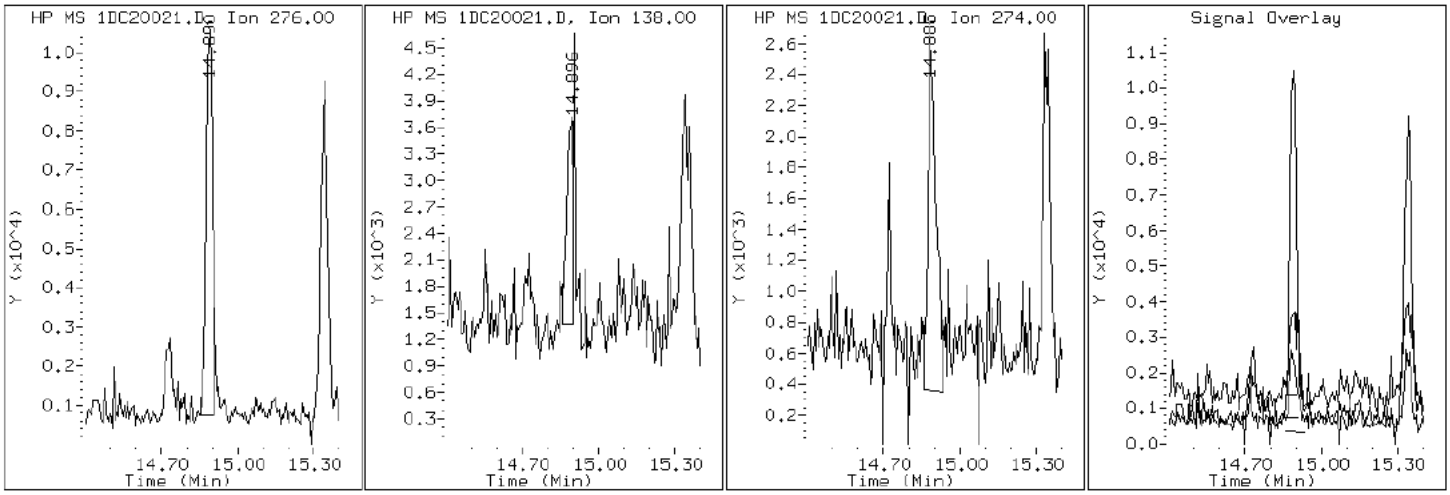
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

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



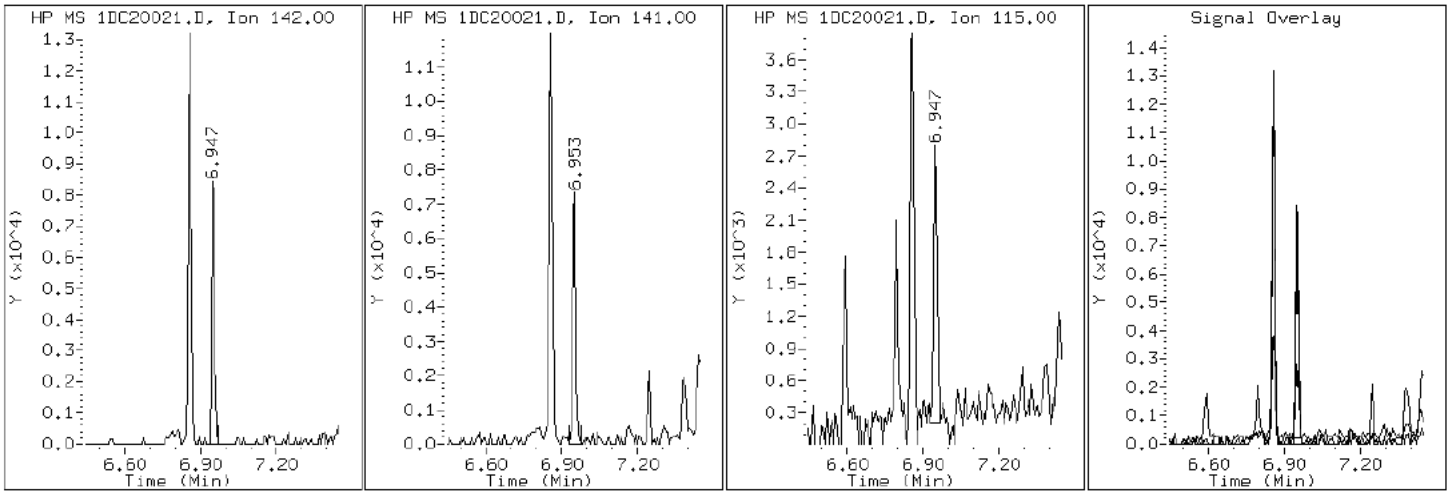
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

4 1-Methylnaphthalene



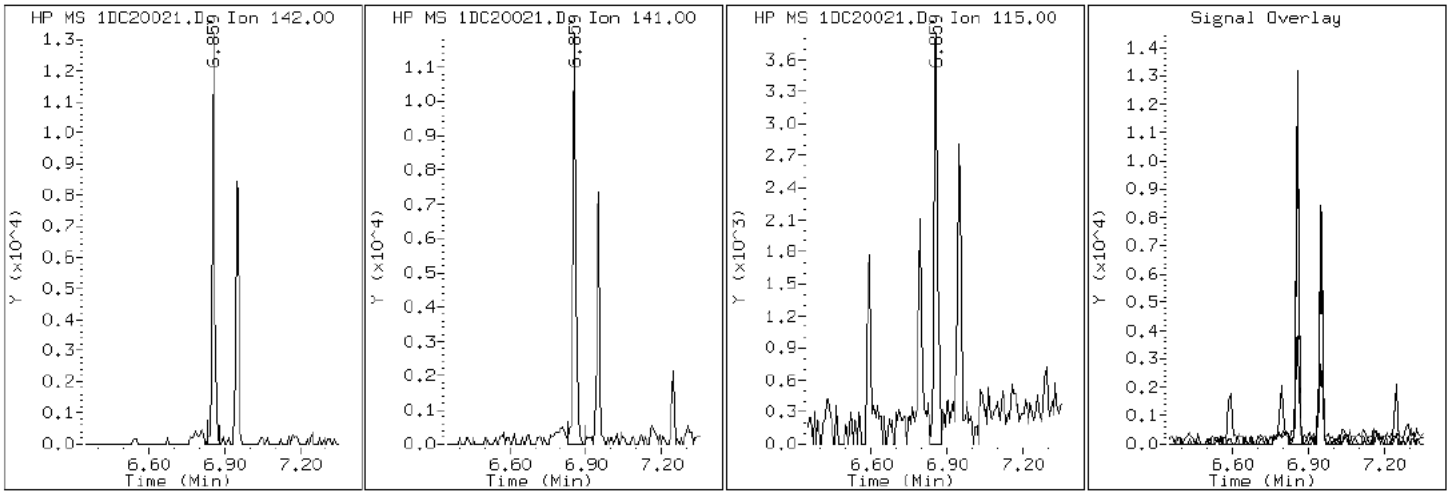
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

3 2-Methylnaphthalene



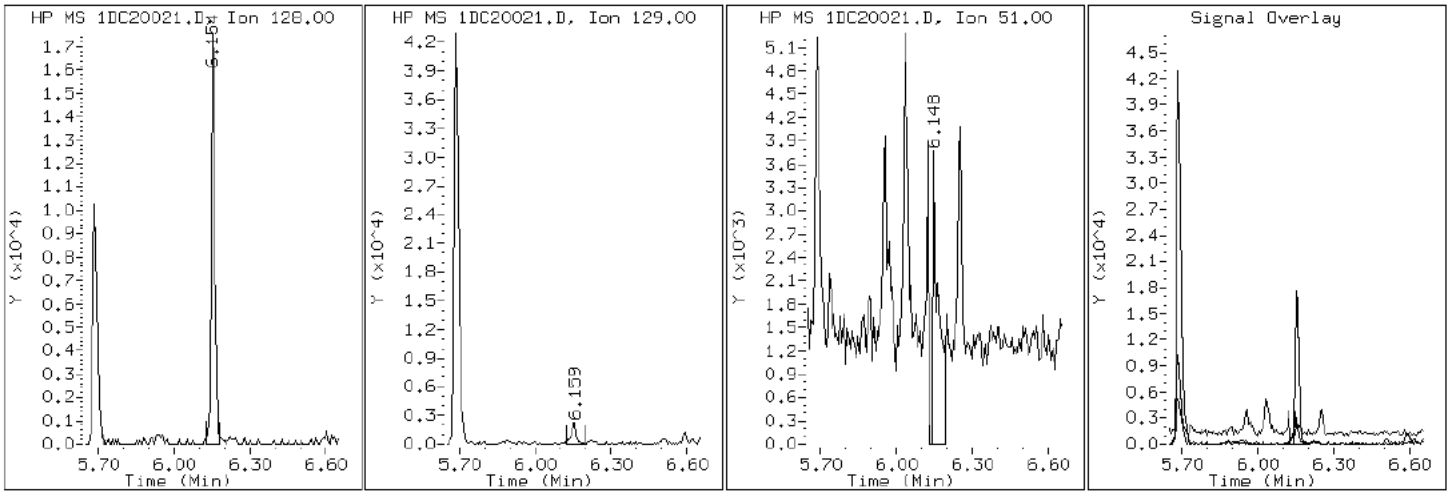
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

2 Naphthalene



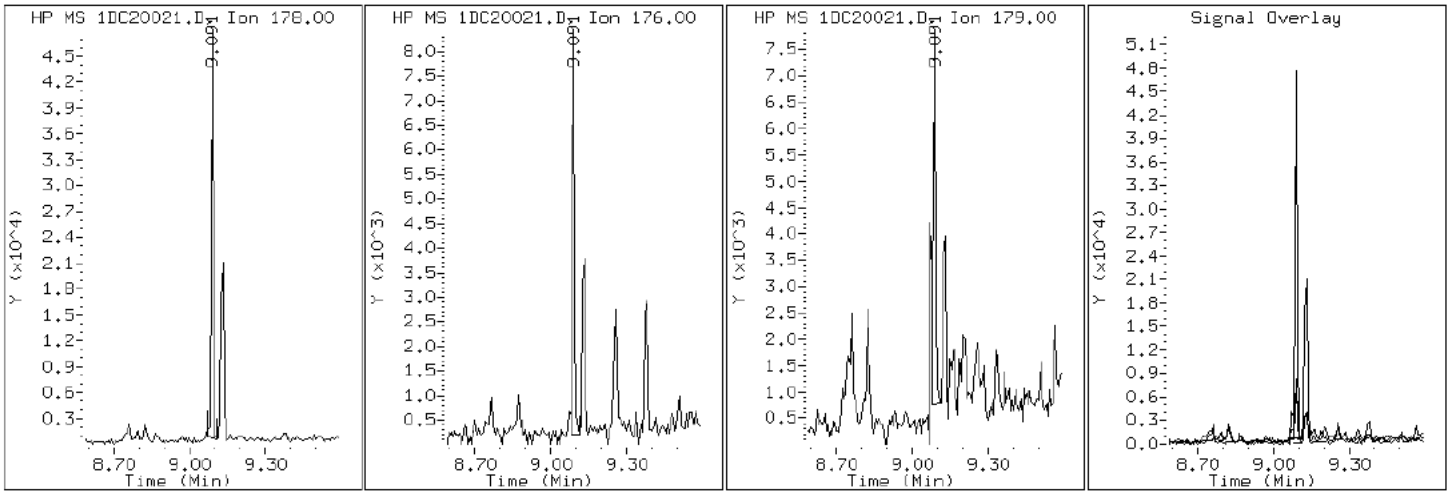
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

10 Phenanthrene



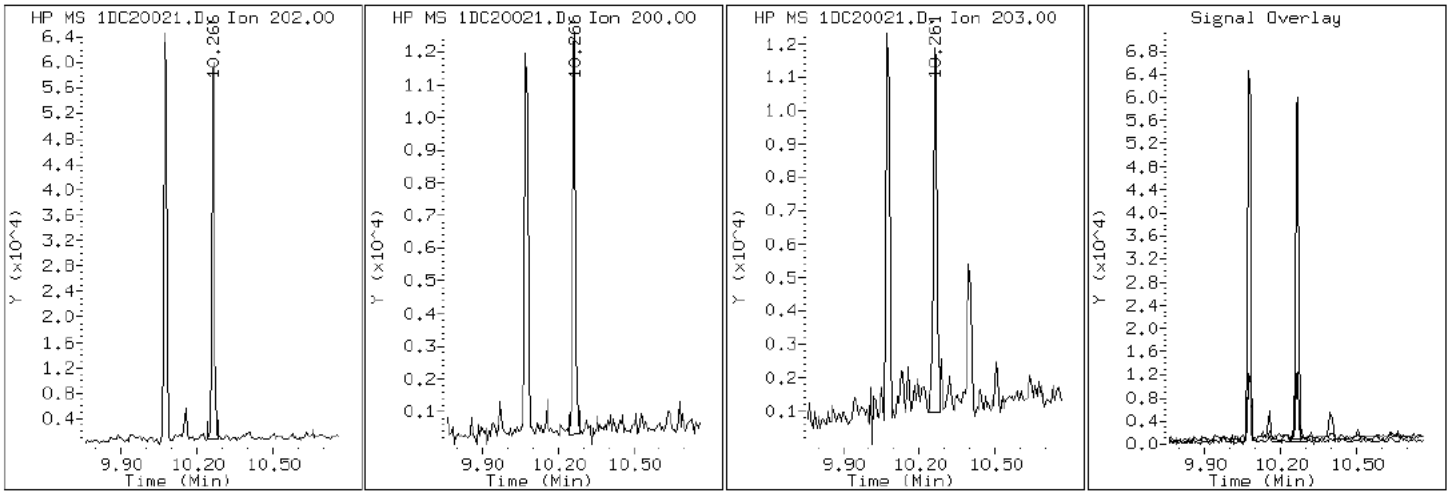
Data File: 1DC20021.D

Date: 20-MAR-2013 19:17

Client ID: CV1310A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-15-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20021.D
Inj. Date and Time: 20-MAR-2013 19:17
Instrument ID: BSMSD.i
Client ID: CV1310A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

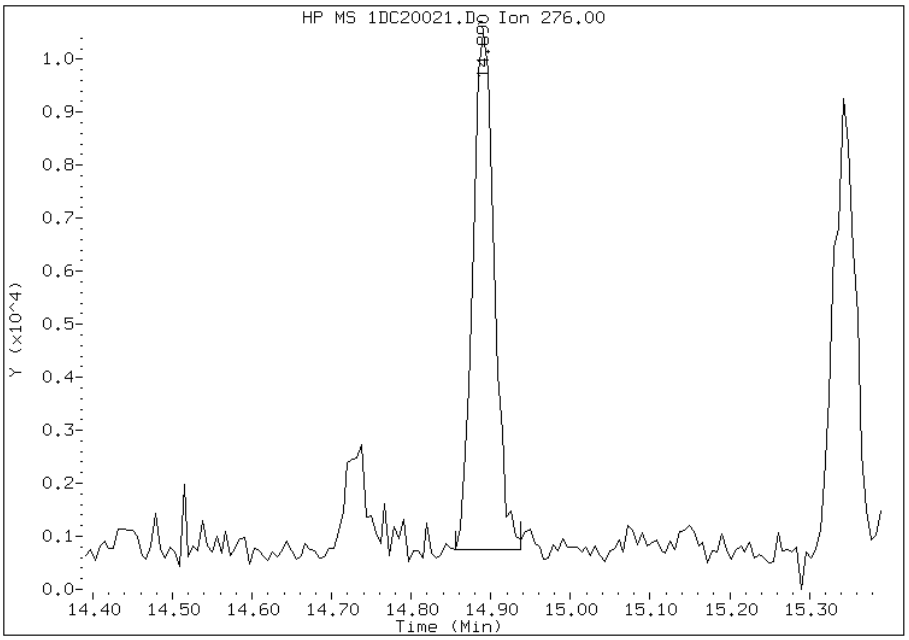
Processing Integration Results

RT: 14.89

Response: 18341

Amount: 0

Conc: 84



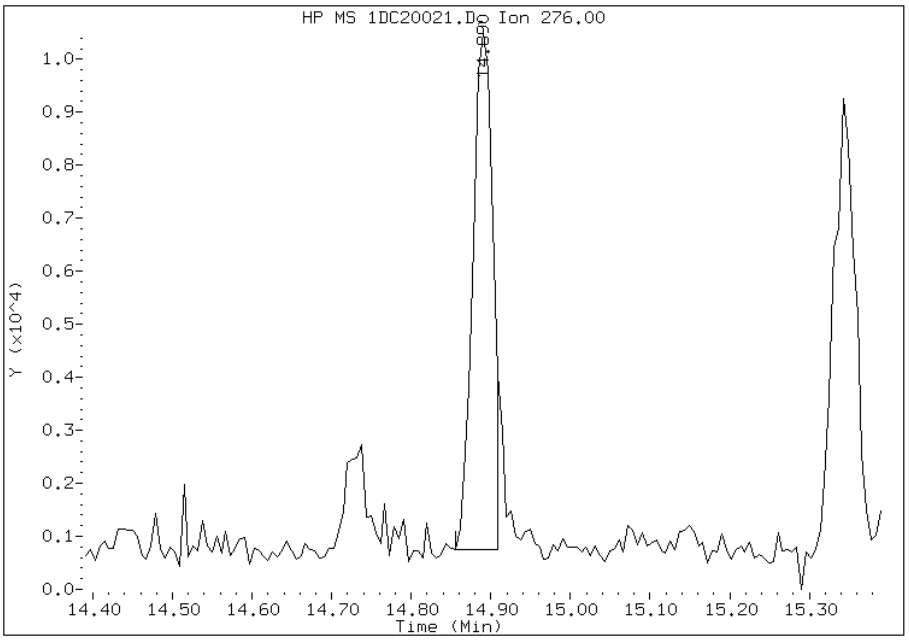
Manual Integration Results

RT: 14.89

Response: 16918

Amount: 0

Conc: 77



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1355A-CS | Lab Sample ID: 680-88298-16

Matrix: Solid | Lab File ID: 1DC20022.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 14:00

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.05(g) | Date Analyzed: 03/20/2013 19:40

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

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

% Moisture: 28.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	59	J	220	28
120-12-7	Anthracene	86		47	23
56-55-3	Benzo[a]anthracene	330		45	22
50-32-8	Benzo[a]pyrene	310		58	29
205-99-2	Benzo[b]fluoranthene	580		68	34
191-24-2	Benzo[g,h,i]perylene	160		110	25
207-08-9	Benzo[k]fluoranthene	220		45	20
218-01-9	Chrysene	450		50	25
53-70-3	Dibenz(a,h)anthracene	55	J	110	23
206-44-0	Fluoranthene	580		110	22
86-73-7	Fluorene	23	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	160		110	40
90-12-0	1-Methylnaphthalene	140	J	220	25
91-57-6	2-Methylnaphthalene	190	J	220	40
91-20-3	Naphthalene	140	J	220	25
85-01-8	Phenanthrene	380		45	22
129-00-0	Pyrene	480		110	21

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20022.D
Lab Smp Id: 680-88298-A-16-A Client Smp ID: CV1355A-CS
Inj Date : 20-MAR-2013 19:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-16-A
Misc Info : 680-88298-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.050	Weight Extracted
M	28.501	% 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	6.139	6.131	(1.000)	3213373	40.0000	
* 6 Acenaphthene-d10	164	7.813	7.805	(1.000)	2067452	40.0000	
* 9 Phenanthrene-d10	188	9.076	9.068	(1.000)	3396885	40.0000	
$ 13 o-Terphenyl	230	9.376	9.380	(1.033)	92608	1.76297	660
* 17 Chrysene-d12	240	11.415	11.413	(1.000)	3533629	40.0000	
* 22 Perylene-d12	264	13.289	13.281	(1.000)	3017220	40.0000	
2 Naphthalene	128	6.156	6.154	(1.003)	32748	0.38097	140
3 2-Methylnaphthalene	142	6.856	6.853	(1.117)	27410	0.50057	190
4 1-Methylnaphthalene	142	6.950	6.947	(1.132)	19366	0.37768	140
5 Acenaphthylene	152	7.678	7.682	(0.983)	14493	0.15900	59
8 Fluorene	166	8.277	8.275	(1.059)	3982	0.06132	23(Q)
10 Phenanthrene	178	9.088	9.092	(1.001)	99102	1.02775	380
11 Anthracene	178	9.129	9.133	(1.006)	22325	0.23140	86
12 Carbazole	167	9.270	9.268	(1.021)	13678	0.15859	59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.075	10.073	(1.110)	156061	1.55087	580
15 Pyrene	202	10.263	10.261	(0.899)	142205	1.29737	480
16 Benzo(a)anthracene	228	11.397	11.389	(0.998)	86567	0.89481	330
18 Chrysene	228	11.438	11.436	(1.002)	121132	1.21281	450
19 Benzo(b)fluoranthene	252	12.725	12.723	(0.958)	121464	1.56400	580
20 Benzo(k)fluoranthene	252	12.755	12.764	(0.960)	47629	0.58573	220
21 Benzo(a)pyrene	252	13.178	13.181	(0.992)	63567	0.82712	310
23 Indeno(1,2,3-cd)pyrene	276	14.893	14.903	(1.121)	34329	0.41856	160(M)
24 Dibenzo(a,h)anthracene	278	14.923	14.932	(1.123)	11176	0.14755	55
25 Benzo(g,h,i)perylene	276	15.346	15.361	(1.155)	34235	0.43780	160

QC Flag Legend

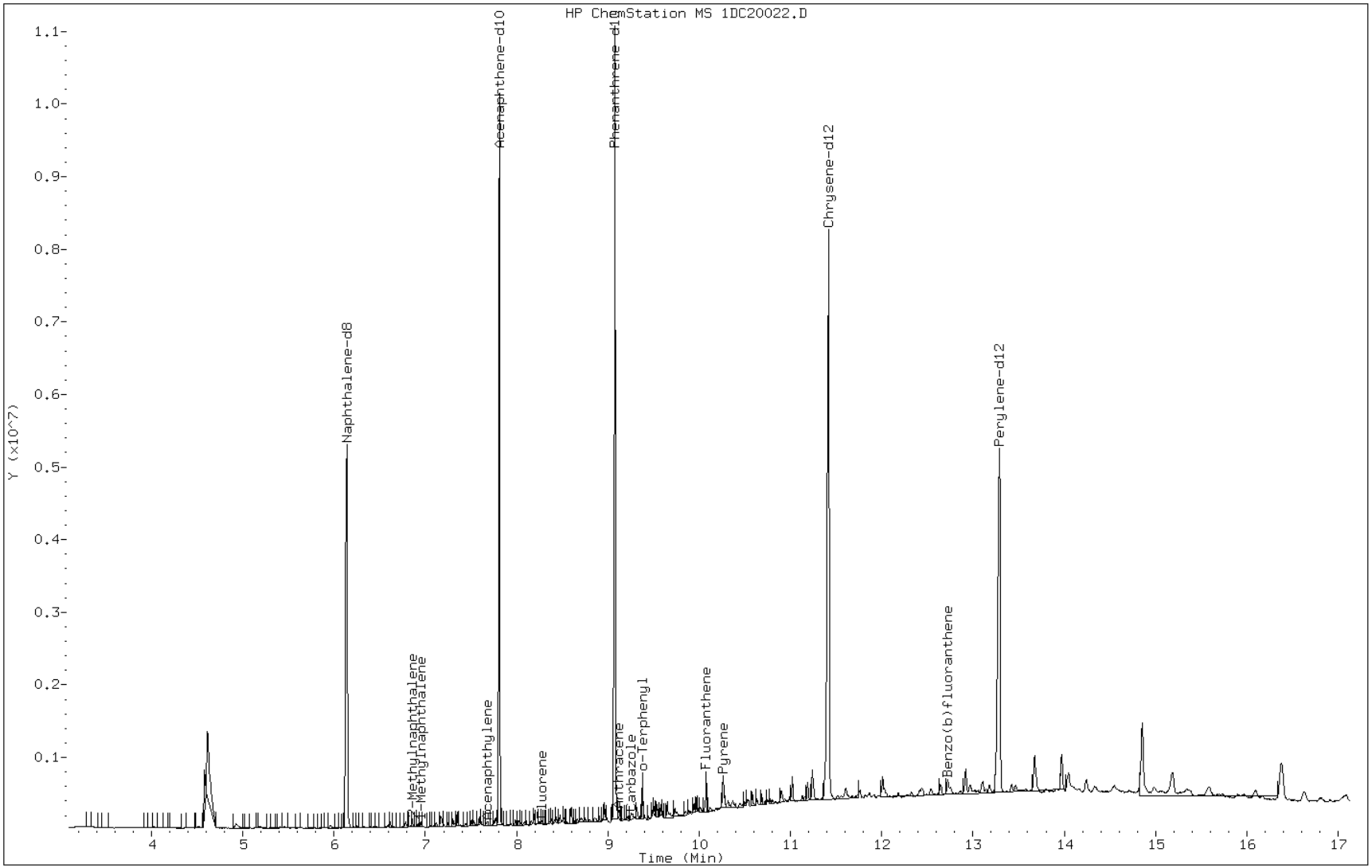
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC



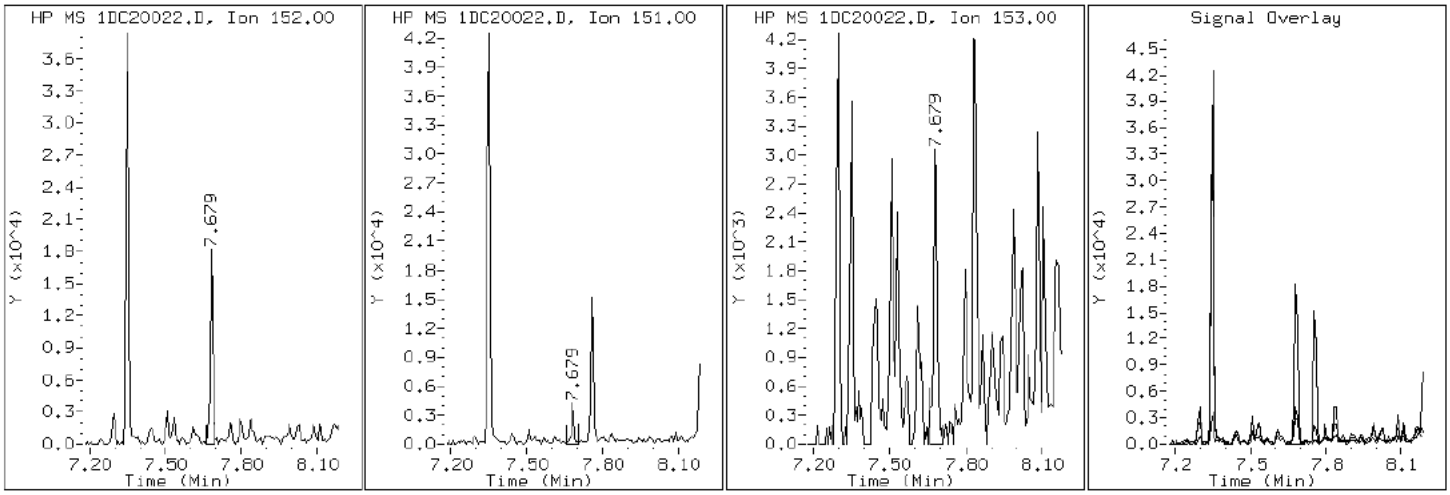
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

5 Acenaphthylene



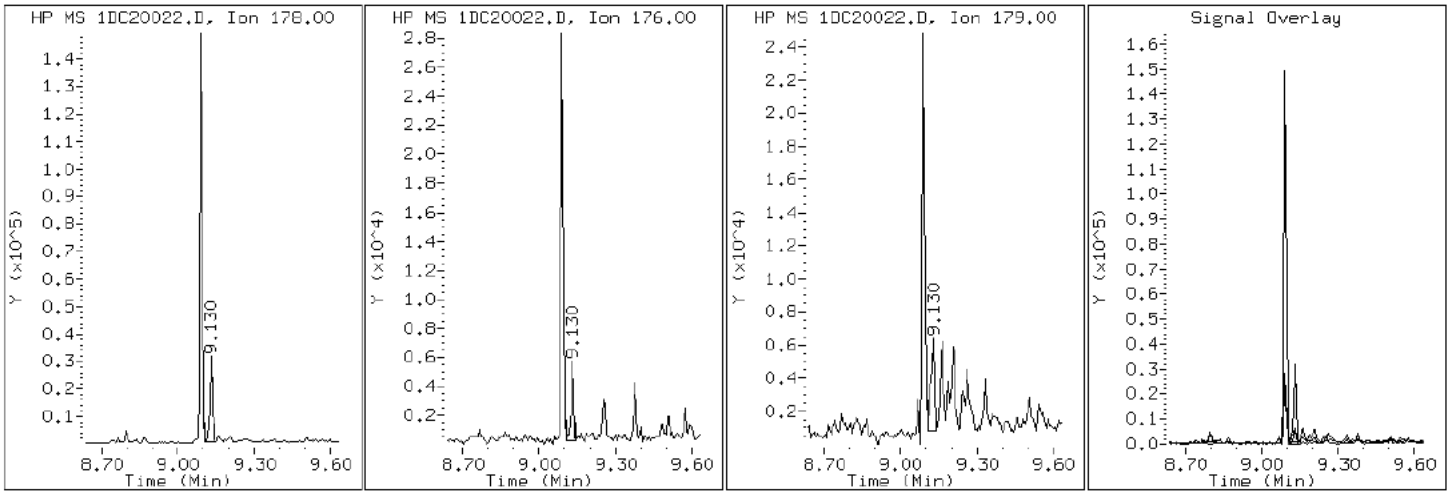
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

11 Anthracene



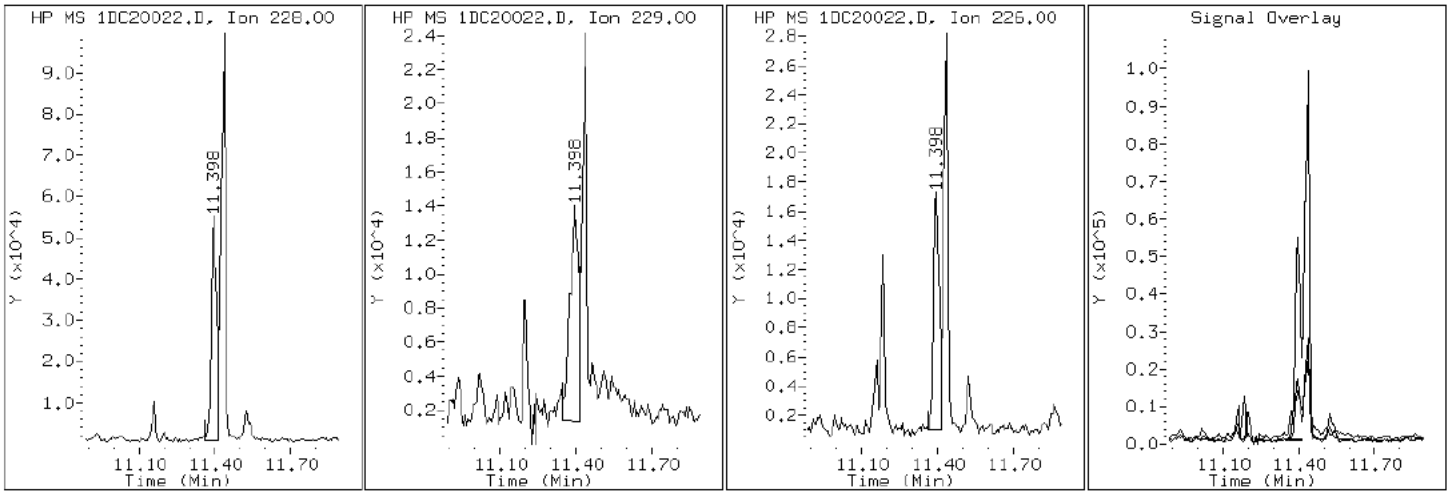
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

16 Benzo(a)anthracene



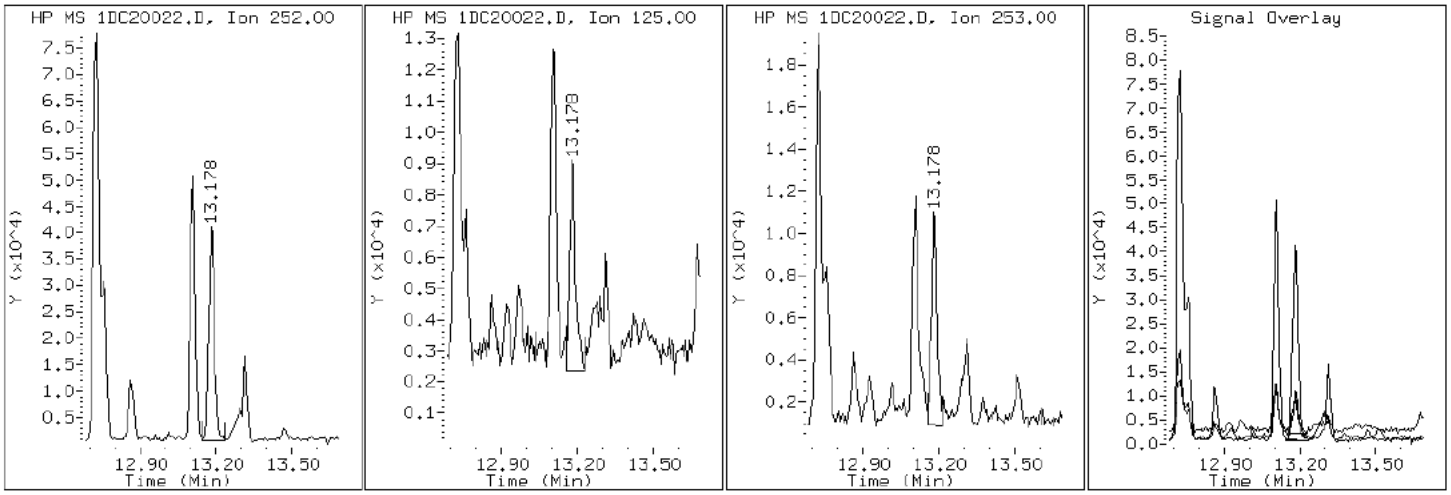
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

21 Benzo(a)pyrene



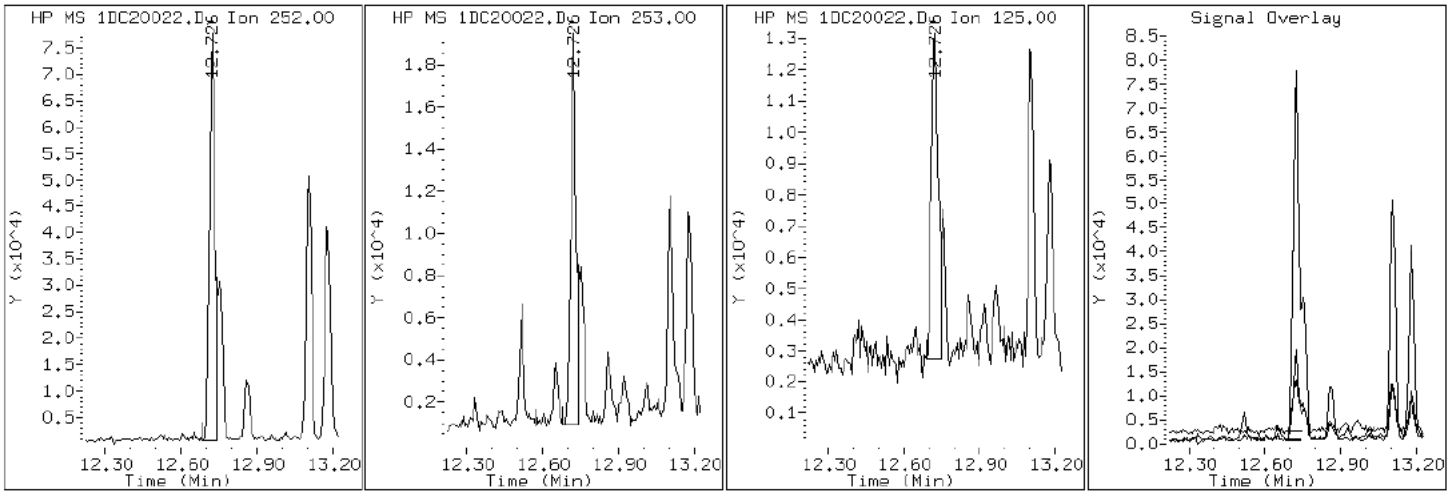
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

19 Benzo(b)fluoranthene



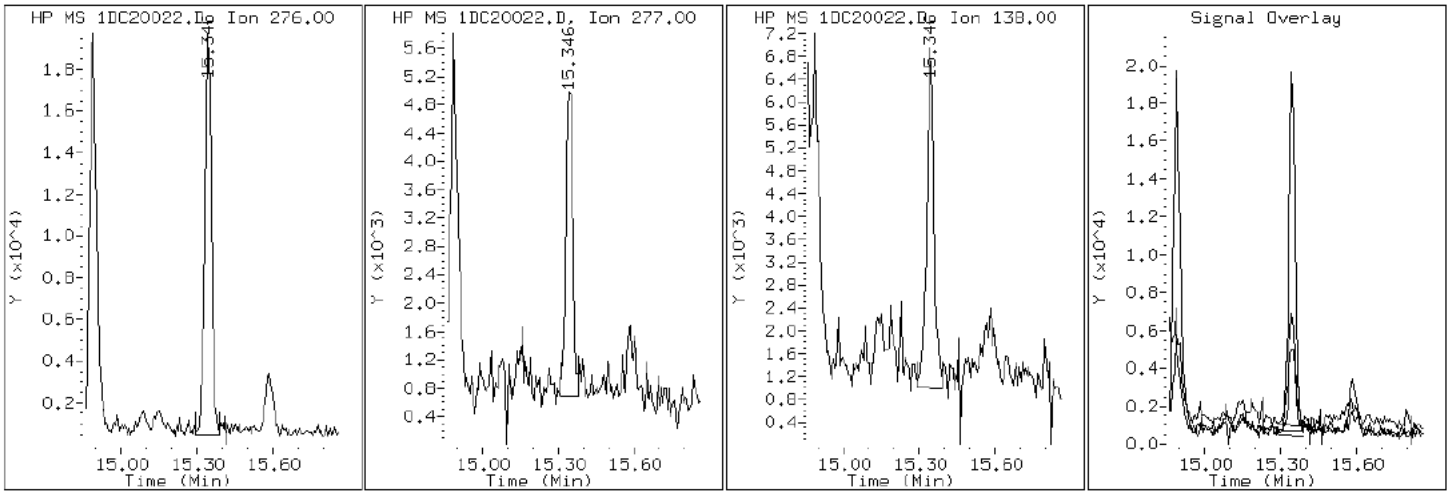
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

25 Benzo(g,h,i)perylene



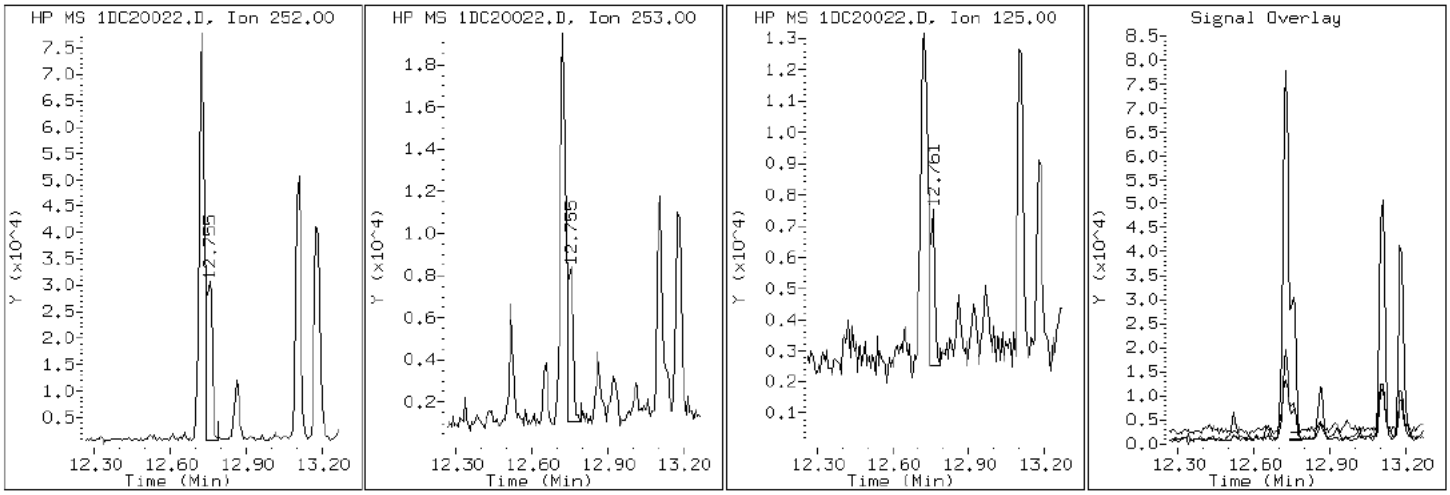
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

20 Benzo(k)fluoranthene



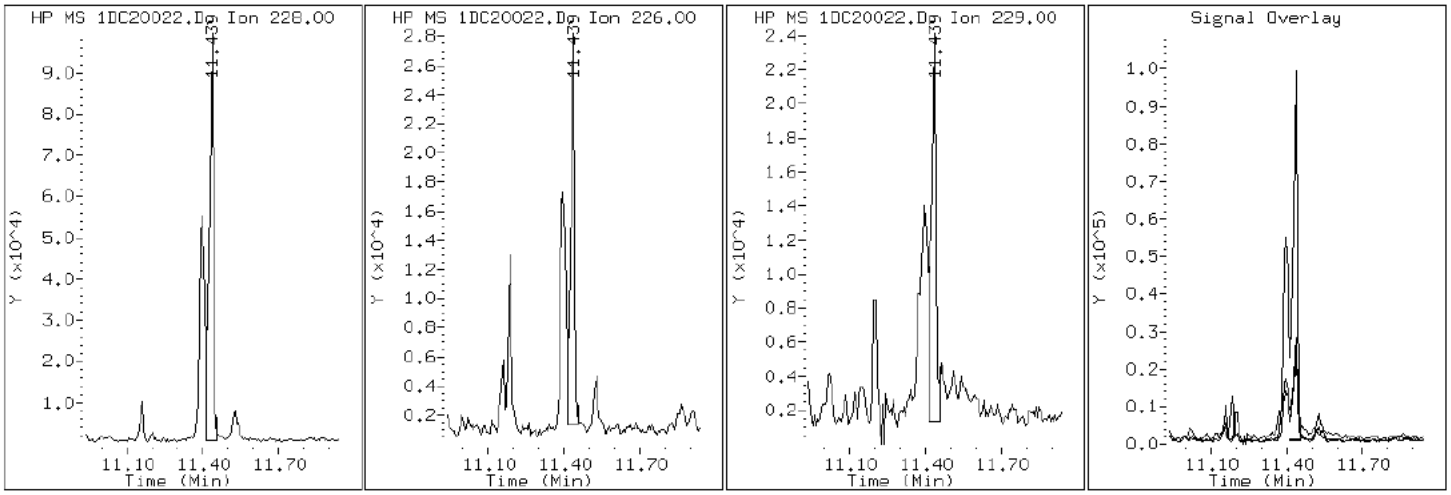
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

18 Chrysene



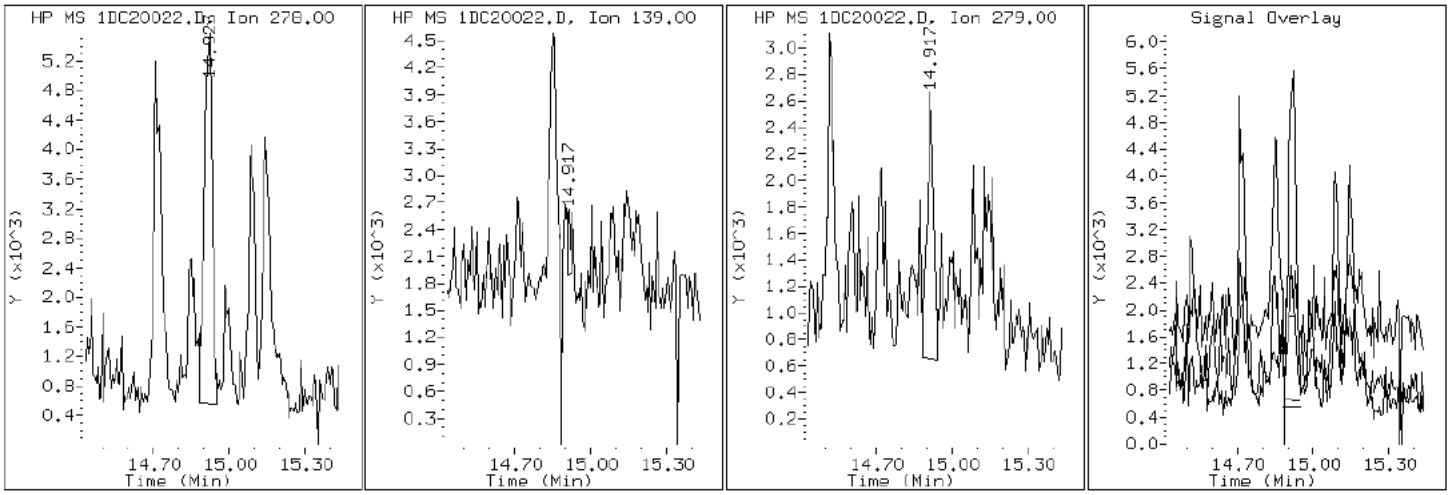
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

24 Dibenzo(a,h)anthracene



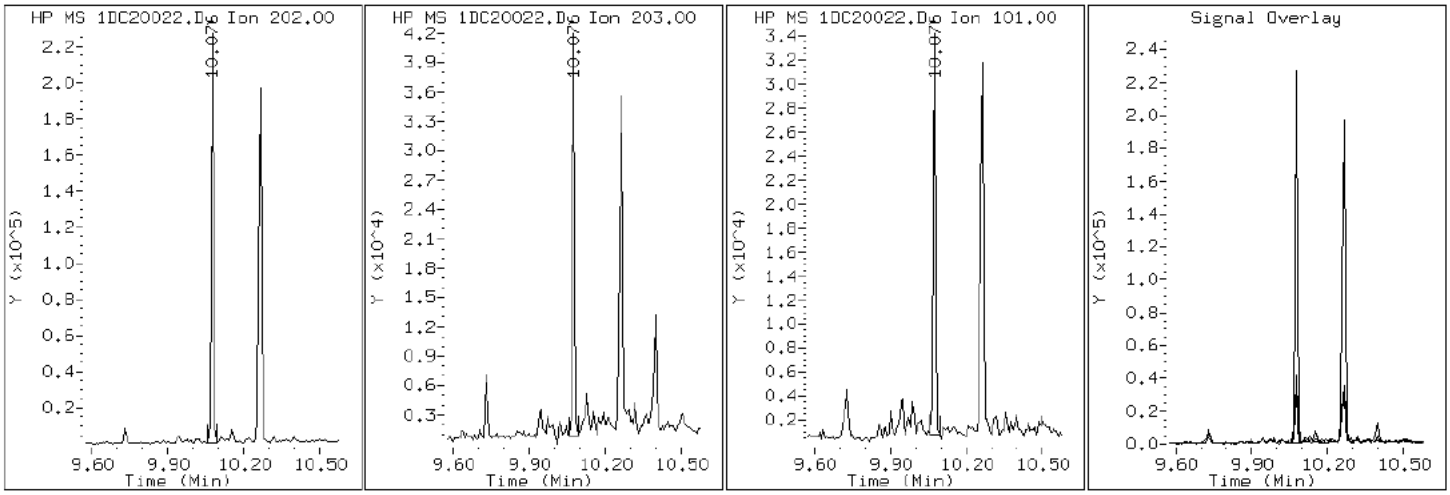
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

14 Fluoranthene



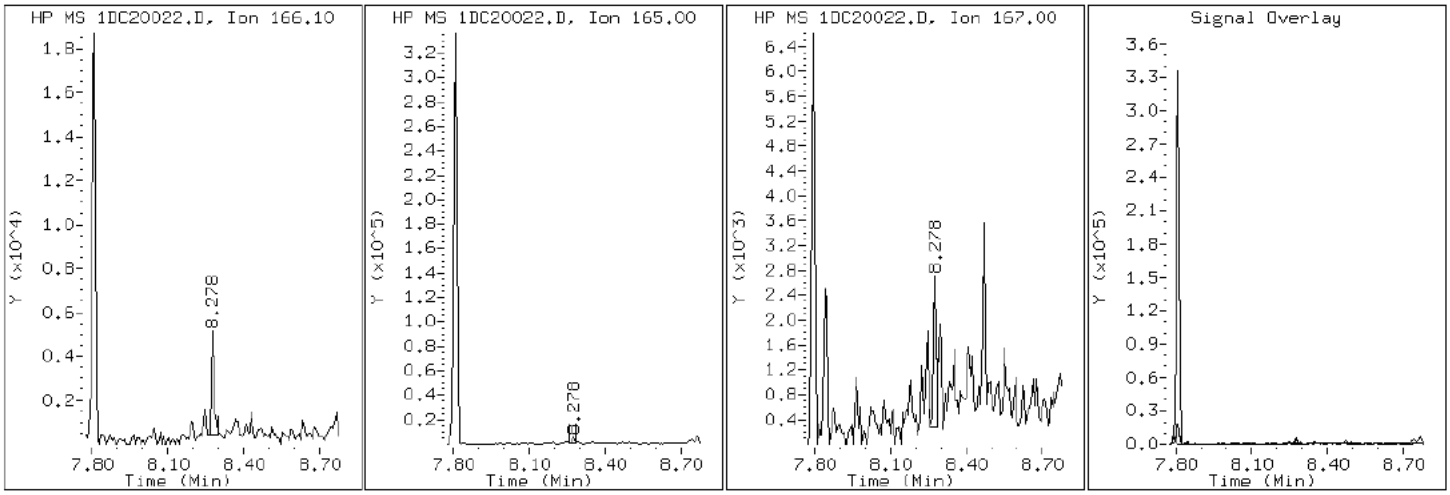
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

8 Fluorene



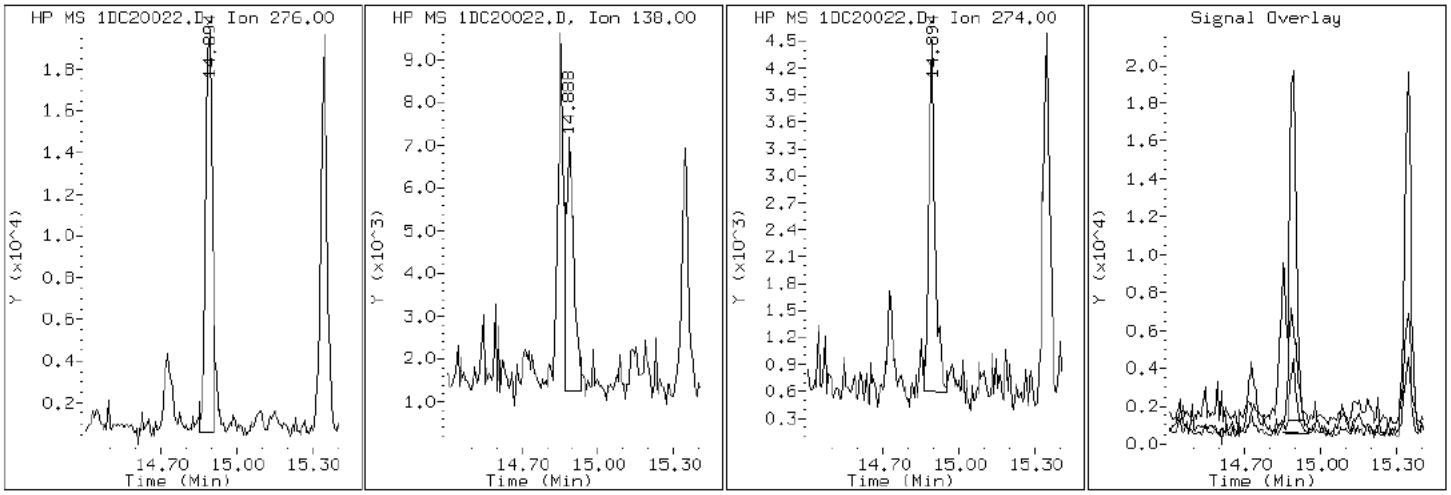
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

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



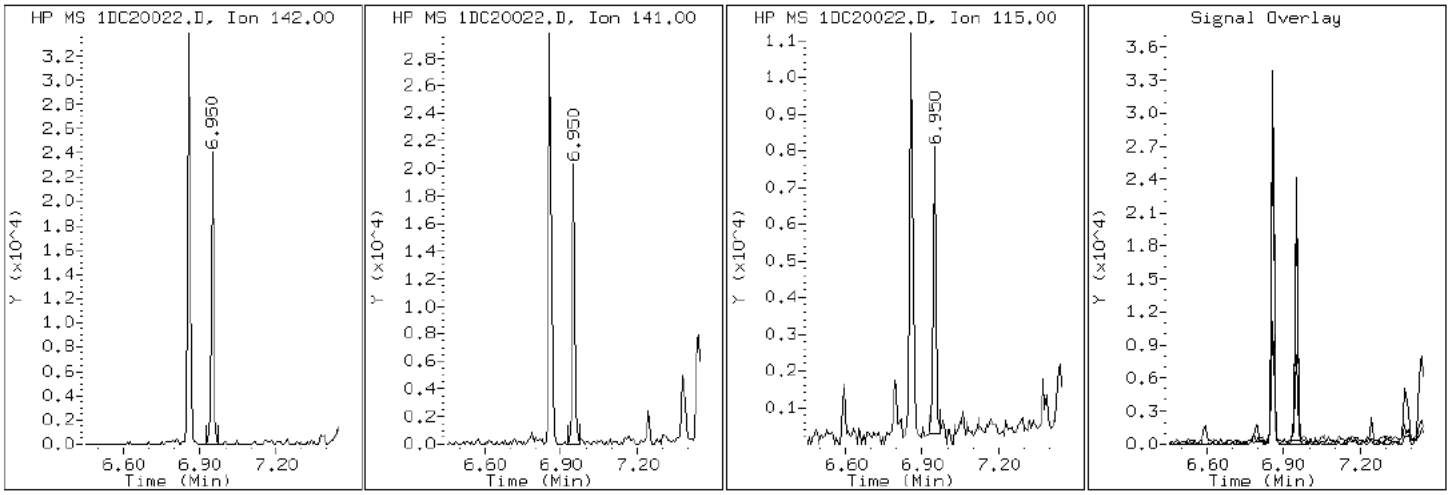
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

4 1-Methylnaphthalene



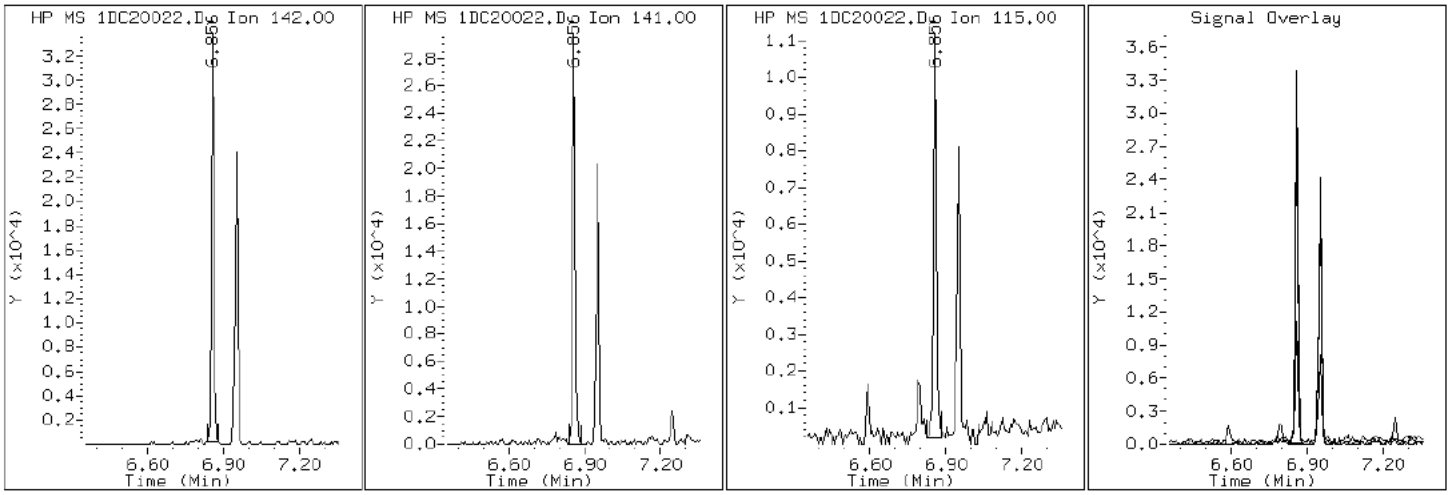
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

3 2-Methylnaphthalene



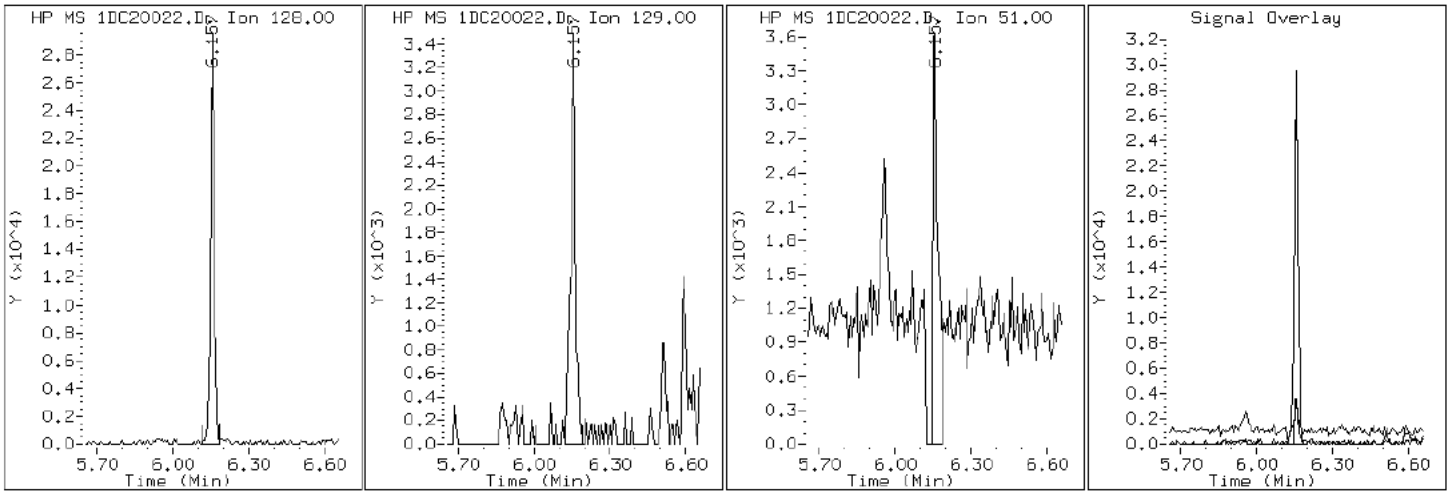
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

2 Naphthalene



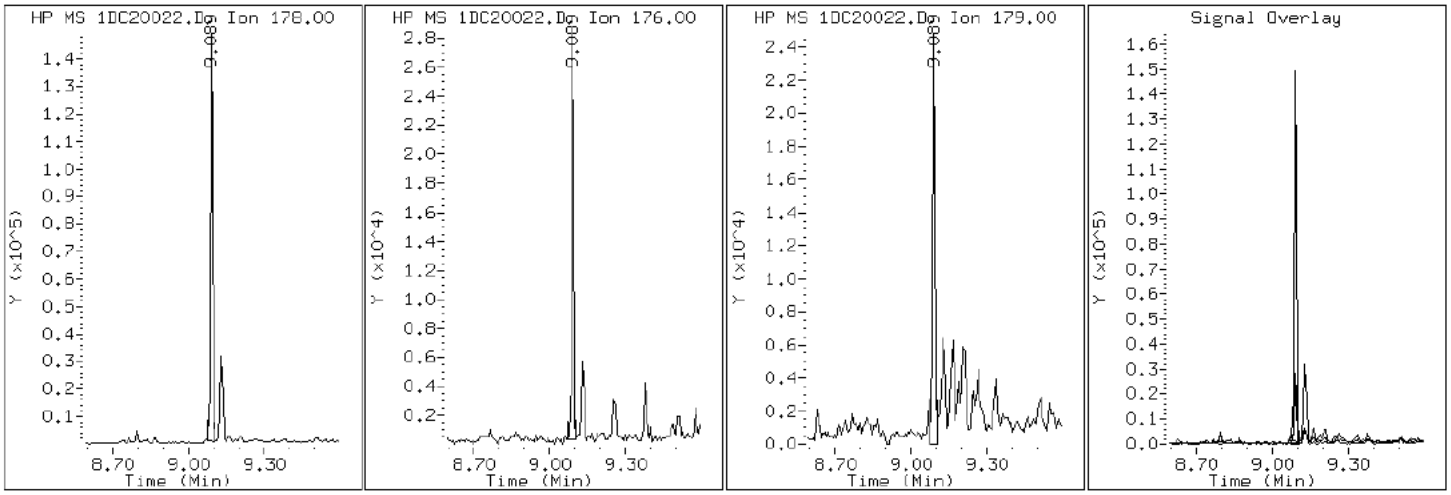
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

10 Phenanthrene



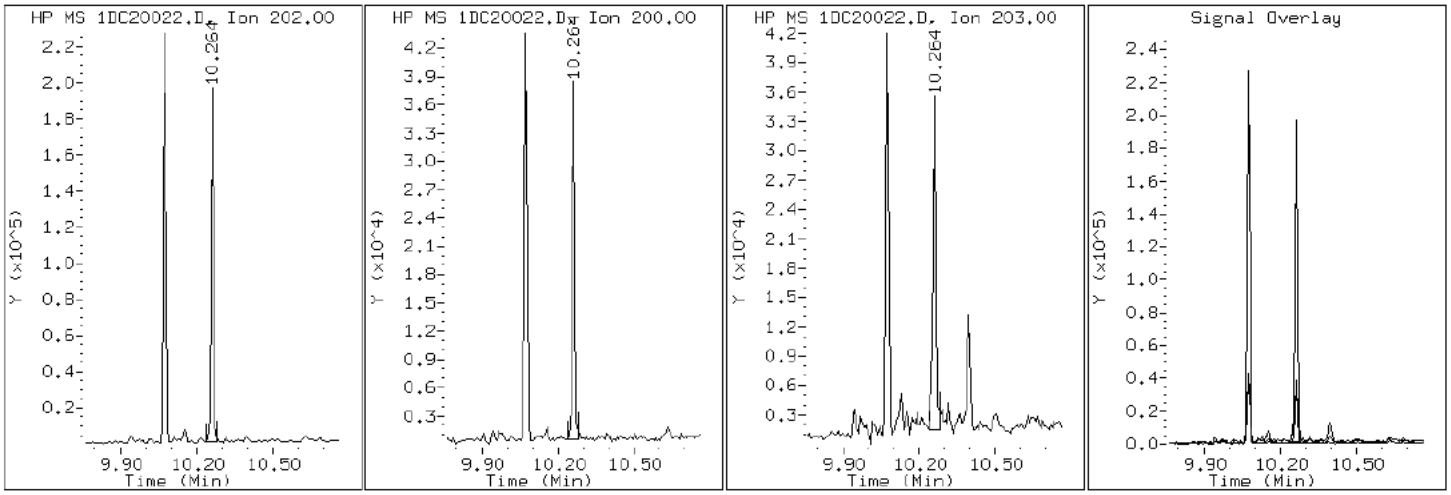
Data File: 1DC20022.D

Date: 20-MAR-2013 19:40

Client ID: CV1355A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-16-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20022.D
Inj. Date and Time: 20-MAR-2013 19:40
Instrument ID: BSMSD.i
Client ID: CV1355A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

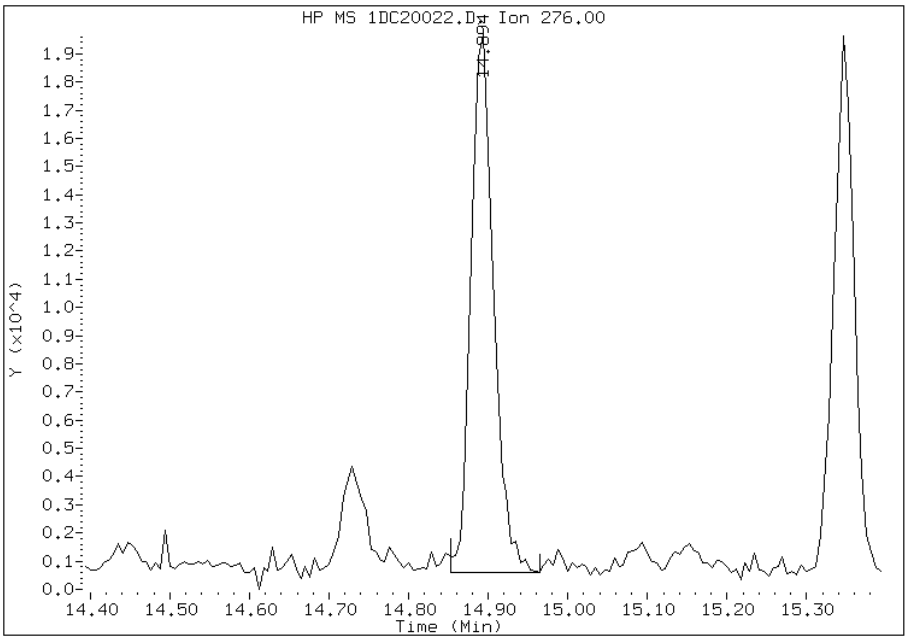
Processing Integration Results

RT: 14.89

Response: 37561

Amount: 0

Conc: 170



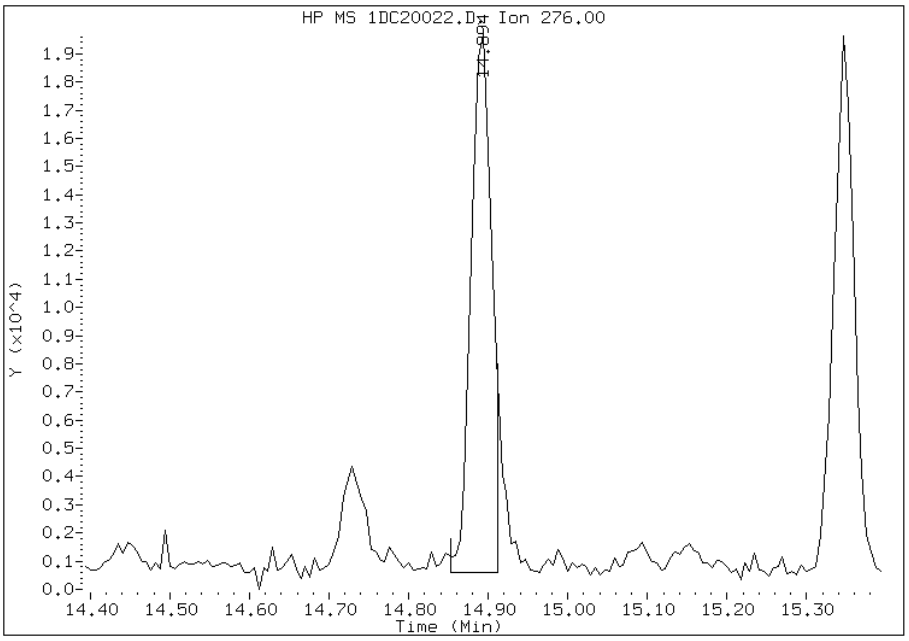
Manual Integration Results

RT: 14.89

Response: 34329

Amount: 0

Conc: 156



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV1355B-CS | Lab Sample ID: 680-88298-17

Matrix: Solid | Lab File ID: 1DC20023.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 14:10

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.07(g) | Date Analyzed: 03/20/2013 20:02

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

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

% Moisture: 29.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	25	J	56	7.1
120-12-7	Anthracene	44		12	5.9
56-55-3	Benzo[a]anthracene	130		11	5.5
50-32-8	Benzo[a]pyrene	110		15	7.3
205-99-2	Benzo[b]fluoranthene	250		17	8.6
191-24-2	Benzo[g,h,i]perylene	61		28	6.2
207-08-9	Benzo[k]fluoranthene	69		11	5.1
218-01-9	Chrysene	180		13	6.4
53-70-3	Dibenz(a,h)anthracene	21	J	28	5.8
206-44-0	Fluoranthene	210		28	5.6
86-73-7	Fluorene	9.5	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	56		28	10
90-12-0	1-Methylnaphthalene	89		56	6.2
91-57-6	2-Methylnaphthalene	120		56	10
91-20-3	Naphthalene	90		56	6.2
85-01-8	Phenanthrene	160		11	5.5
129-00-0	Pyrene	170		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20023.D
Lab Smp Id: 680-88298-A-17-A Client Smp ID: CV1355B-CS
Inj Date : 20-MAR-2013 20:02
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-17-A
Misc Info : 680-88298-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	29.524	% 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	6.137	6.131	(1.000)	3106112	40.0000	
* 6	Acenaphthene-d10	164	7.812	7.805	(1.000)	1978729	40.0000	
* 9	Phenanthrene-d10	188	9.075	9.068	(1.000)	3301452	40.0000	
$ 13	o-Terphenyl	230	9.381	9.380	(1.034)	220785	4.32456	410
* 17	Chrysene-d12	240	11.419	11.413	(1.000)	3369562	40.0000	
* 22	Perylene-d12	264	13.294	13.281	(1.000)	2779750	40.0000	
2	Naphthalene	128	6.155	6.154	(1.003)	79353	0.95502	90
3	2-Methylnaphthalene	142	6.860	6.853	(1.118)	67988	1.28450	120
4	1-Methylnaphthalene	142	6.948	6.947	(1.132)	46679	0.94178	89
5	Acenaphthylene	152	7.683	7.682	(0.983)	23047	0.26419	25
8	Fluorene	166	8.276	8.275	(1.059)	6257	0.10068	9.5
10	Phenanthrene	178	9.093	9.092	(1.002)	155142	1.65543	160
11	Anthracene	178	9.128	9.133	(1.006)	43903	0.46822	44
12	Carbazole	167	9.269	9.268	(1.021)	20581	0.24553	23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.074	10.073	(1.110)	218072	2.22975	210
15 Pyrene	202	10.262	10.261	(0.899)	187454	1.79346	170
16 Benzo(a)anthracene	228	11.402	11.389	(0.998)	125348	1.35877	130
18 Chrysene	228	11.437	11.436	(1.002)	185887	1.95178	180
19 Benzo(b)fluoranthene	252	12.730	12.723	(0.958)	191993	2.68333	250
20 Benzo(k)fluoranthene	252	12.759	12.764	(0.960)	55151	0.73618	69
21 Benzo(a)pyrene	252	13.188	13.181	(0.992)	86353	1.21959	110
23 Indeno(1,2,3-cd)pyrene	276	14.904	14.903	(1.121)	44741	0.59211	56(M)
24 Dibenzo(a,h)anthracene	278	14.927	14.932	(1.123)	15381	0.22041	21
25 Benzo(g,h,i)perylene	276	15.356	15.361	(1.155)	46653	0.64757	61

QC Flag Legend

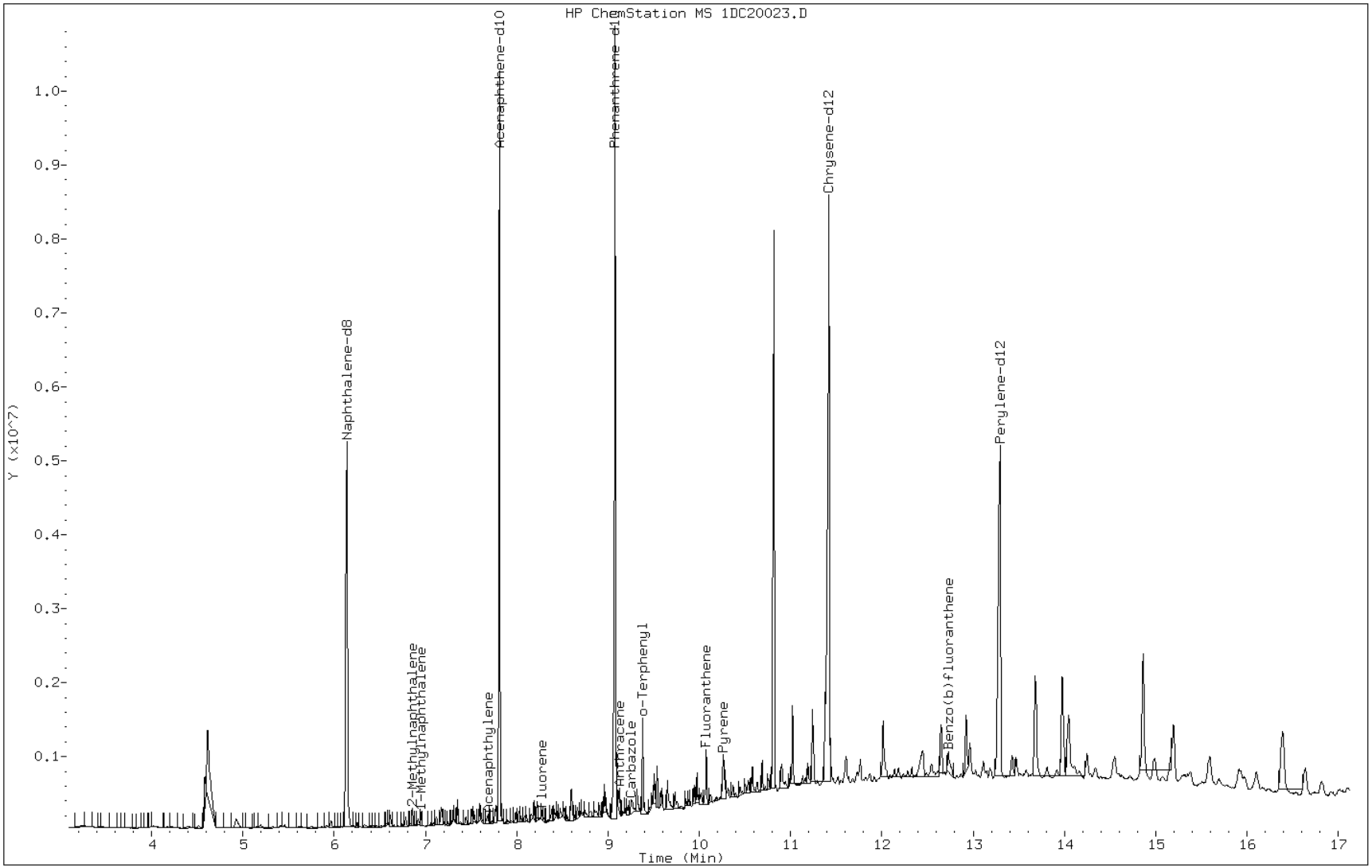
M - Compound response manually integrated.

Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC



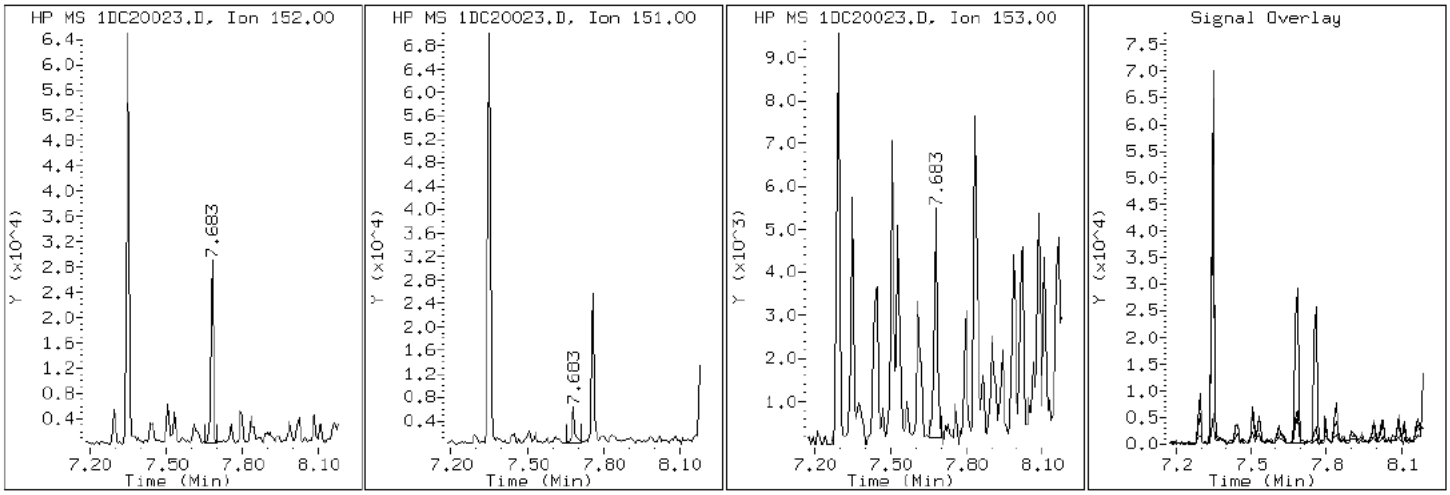
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

5 Acenaphthylene



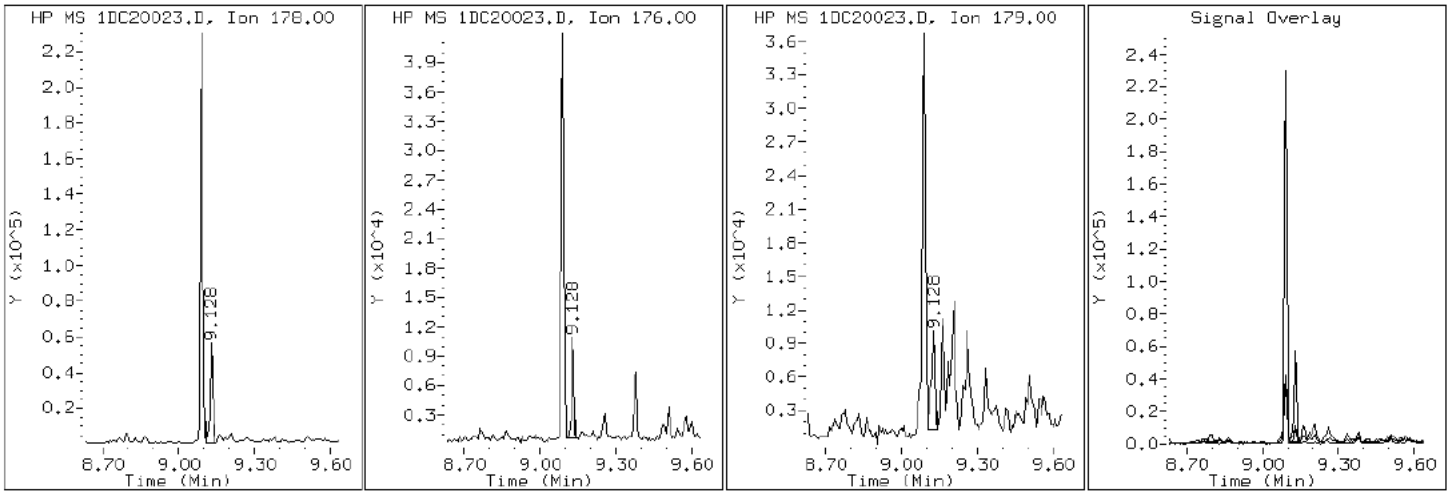
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

11 Anthracene



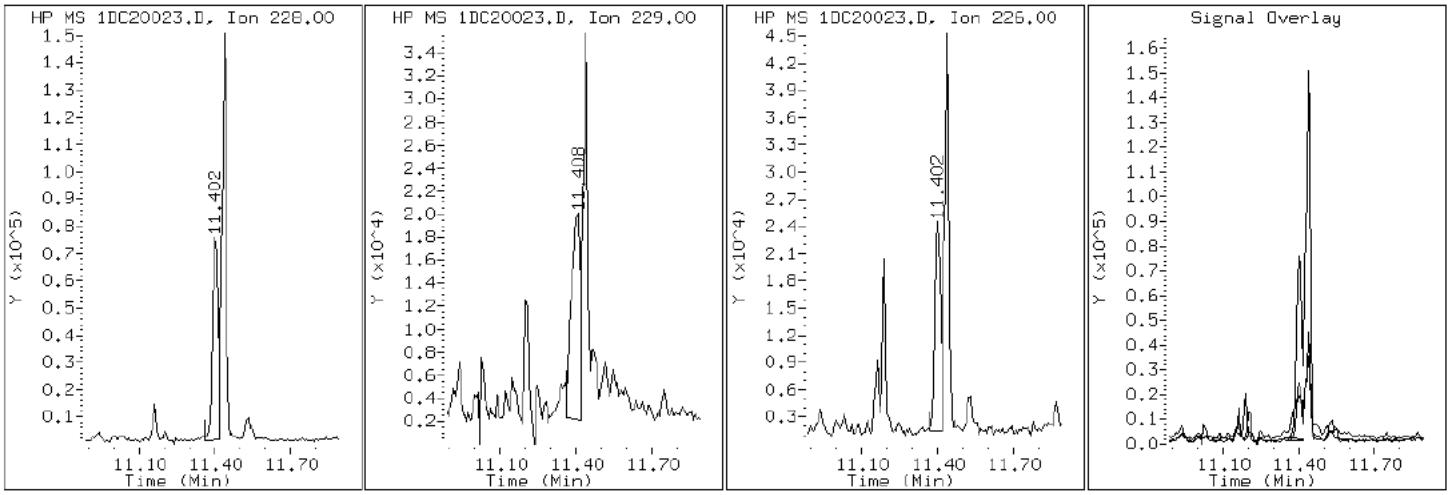
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

16 Benzo(a)anthracene



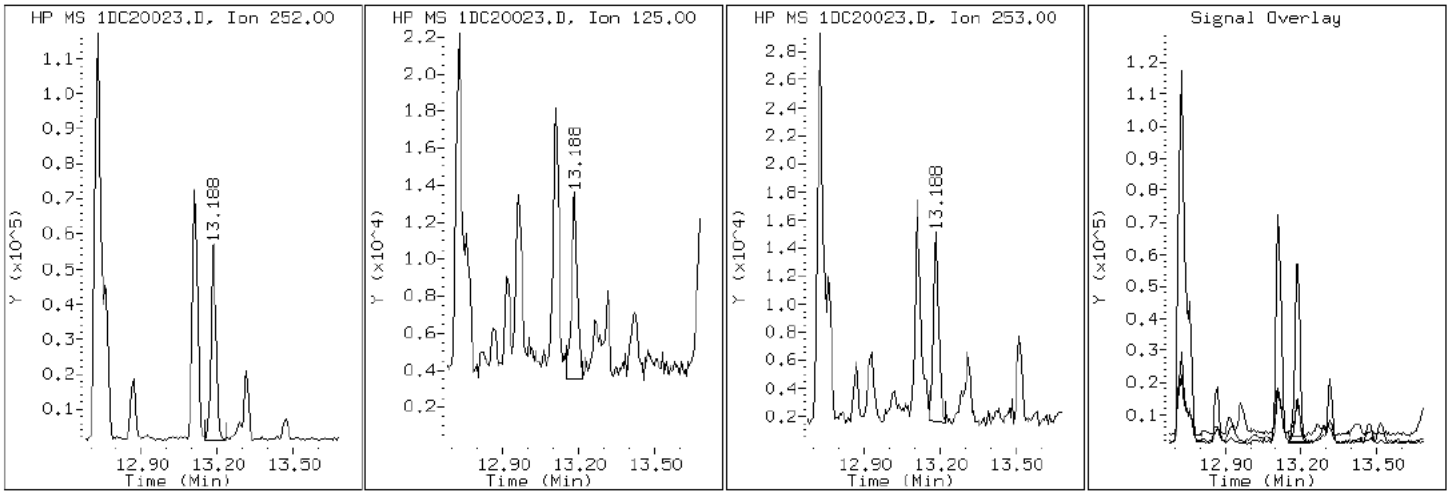
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

21 Benzo(a)pyrene



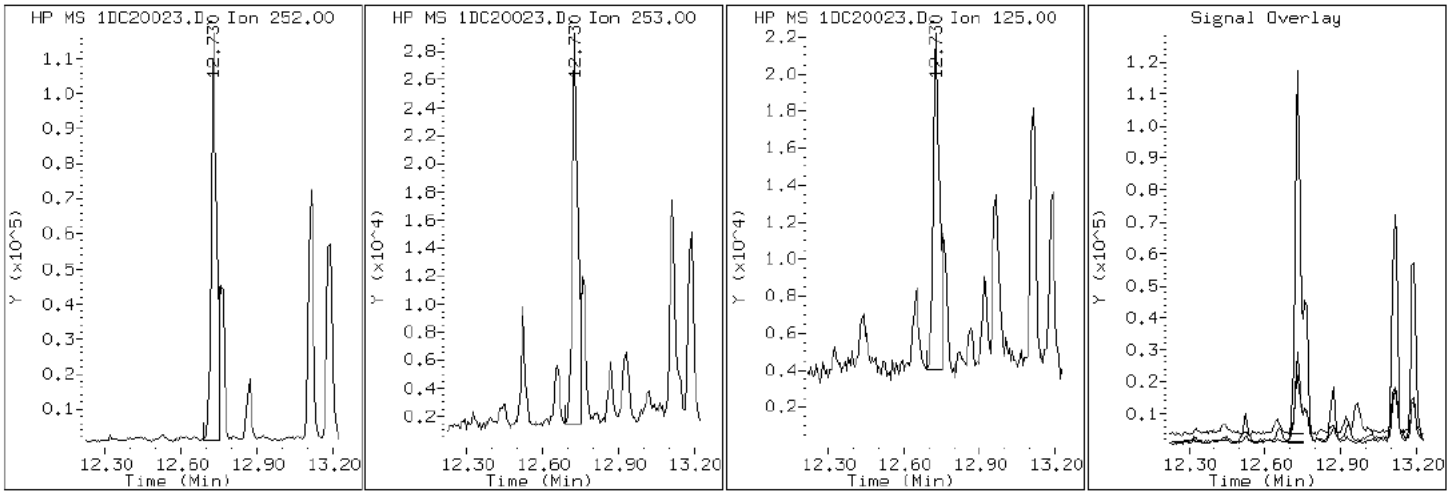
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

19 Benzo(b)fluoranthene



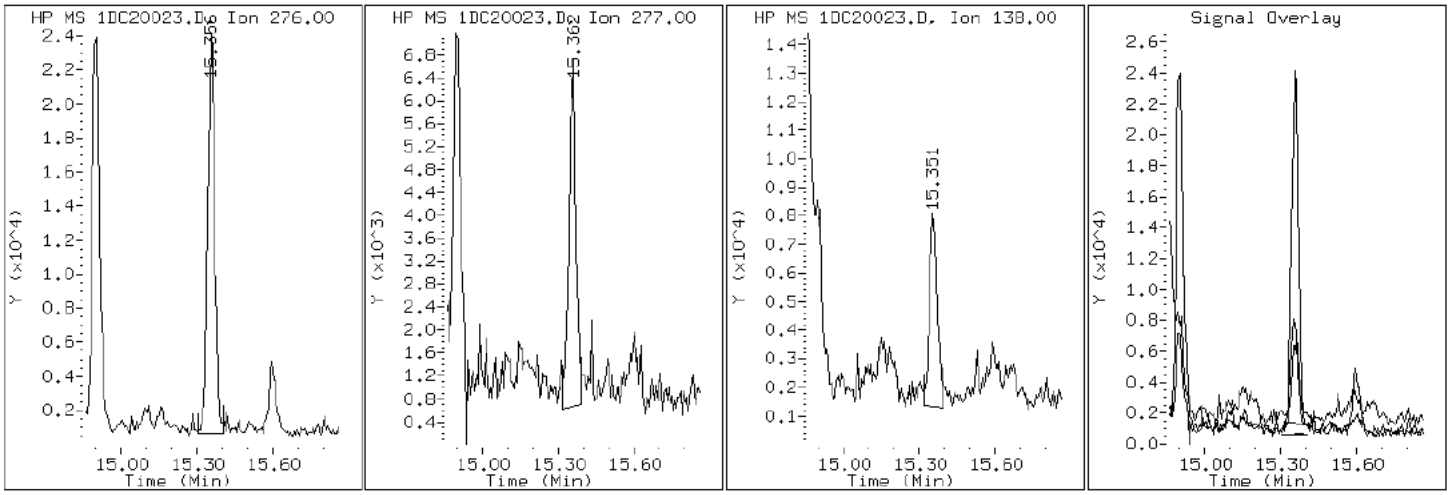
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

25 Benzo(g,h,i)perylene



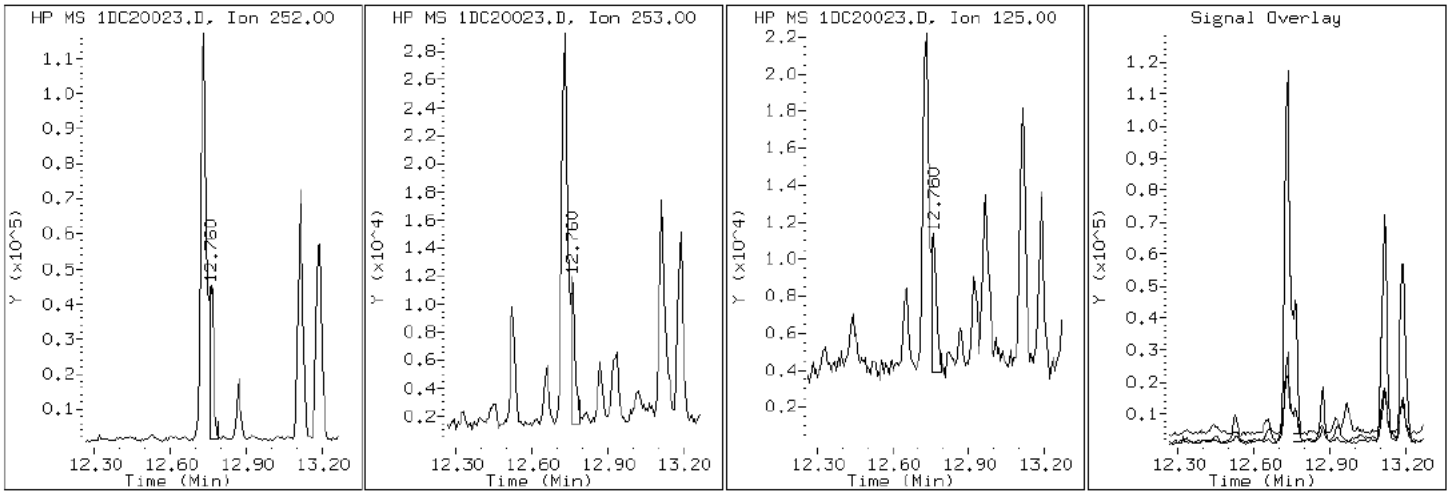
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

20 Benzo(k)fluoranthene



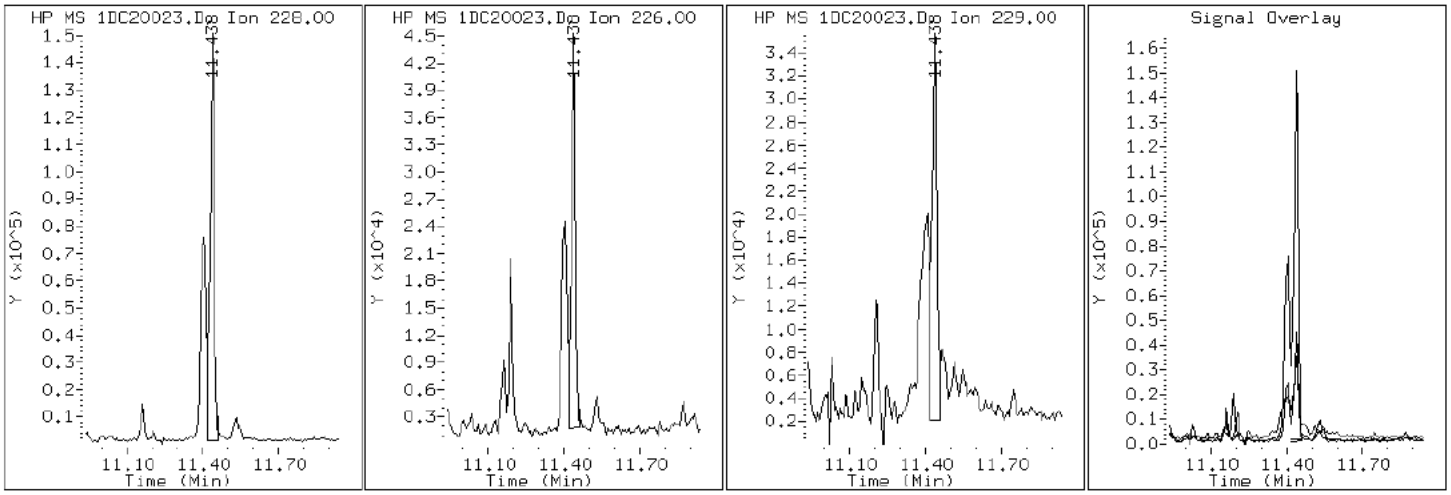
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

18 Chrysene



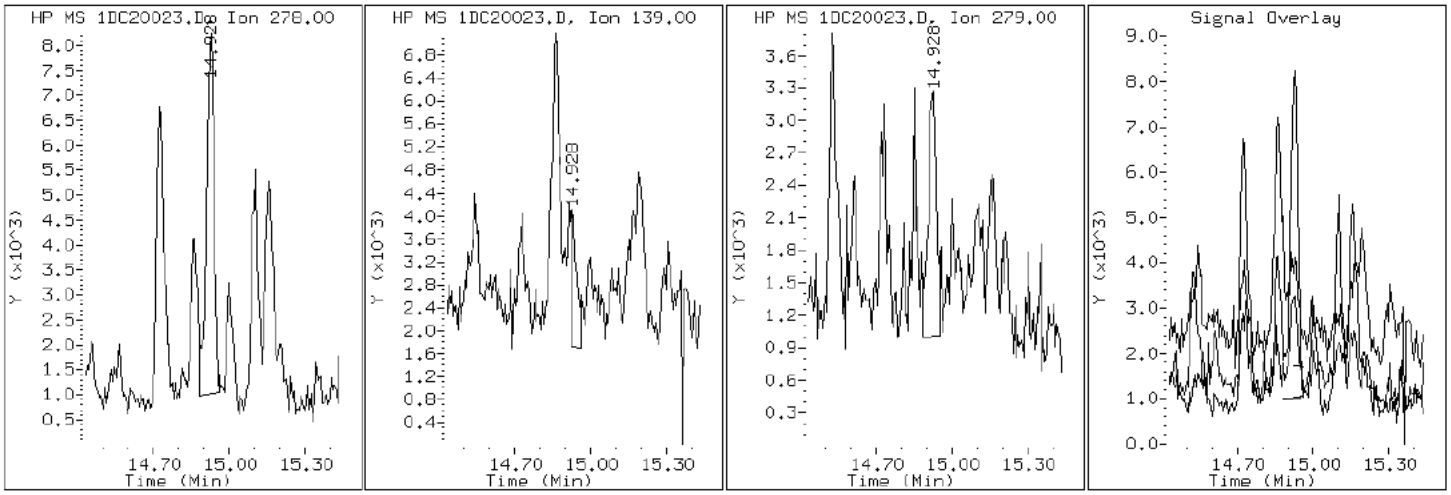
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

24 Dibenzo(a,h)anthracene



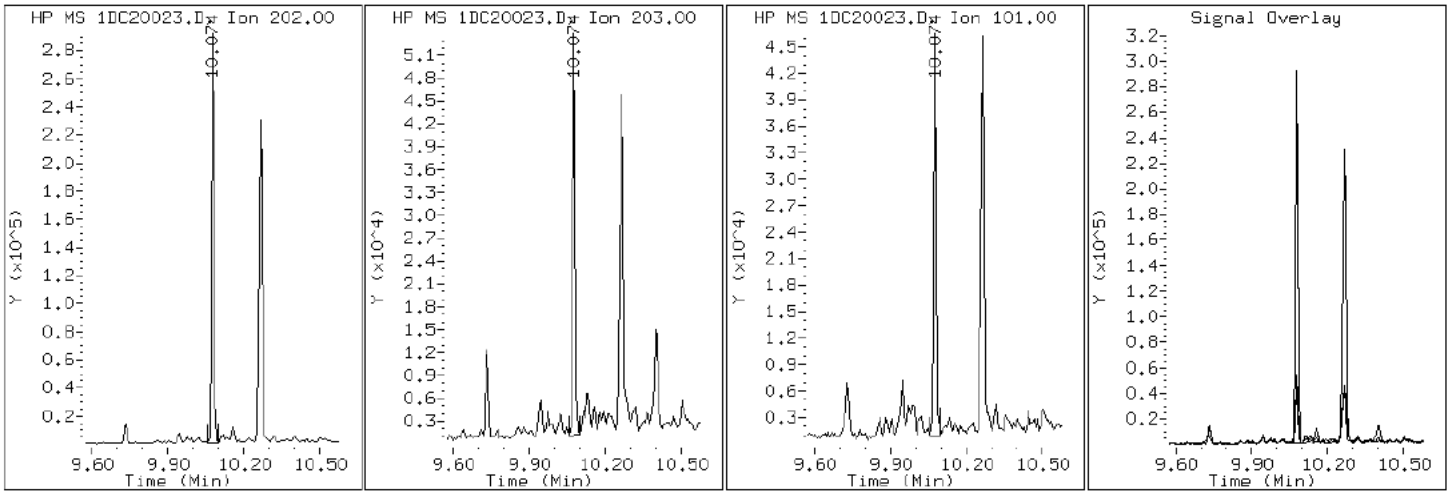
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

14 Fluoranthene



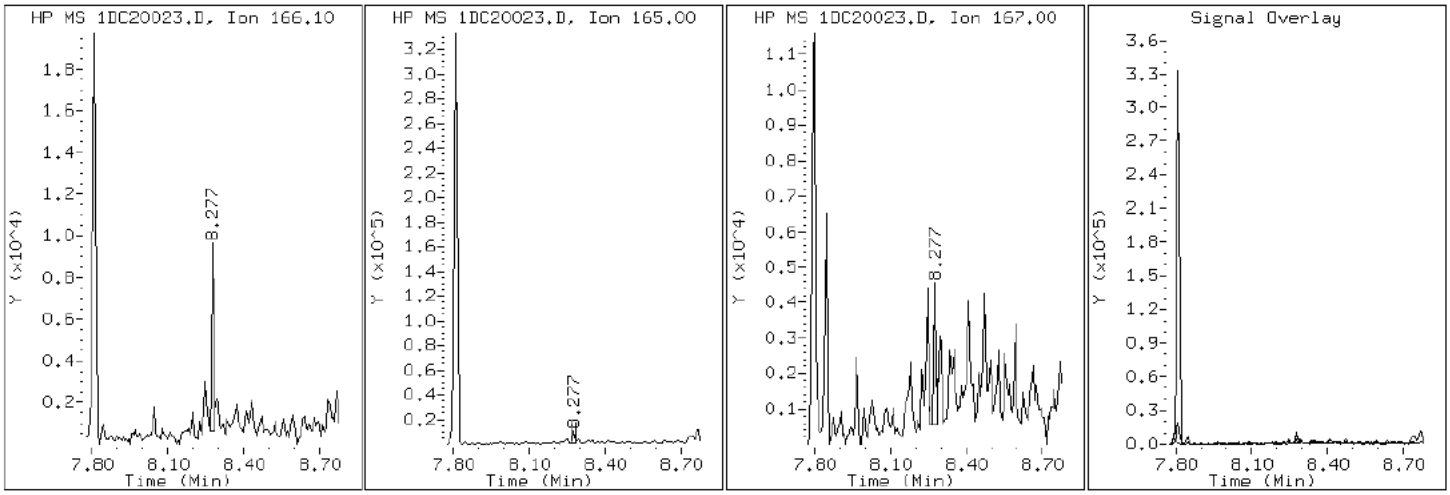
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

8 Fluorene



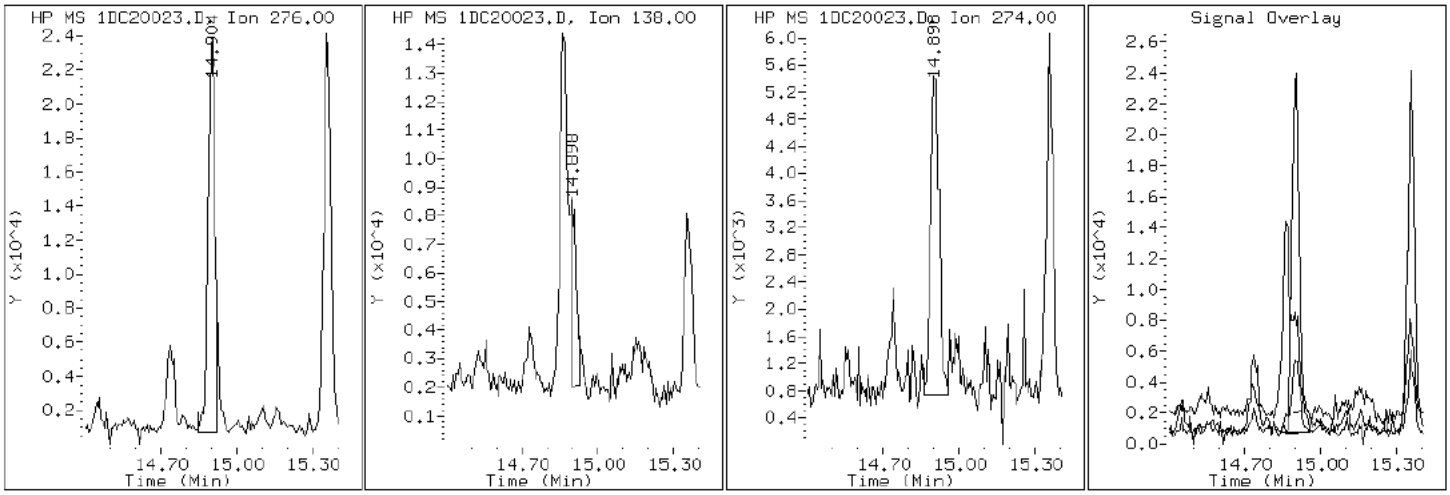
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

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



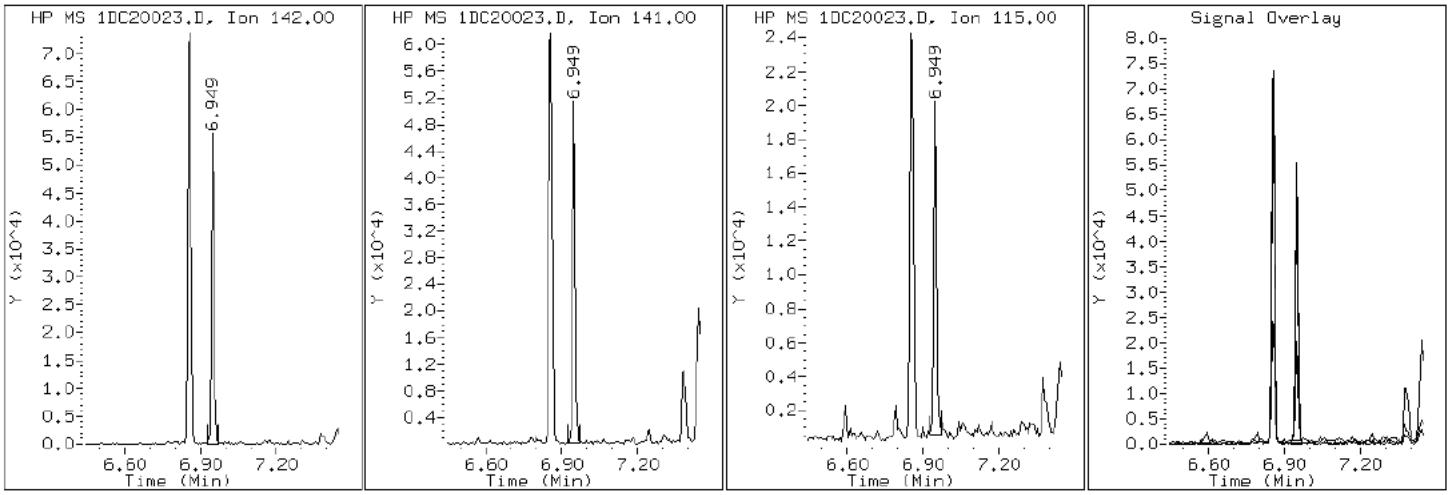
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

4 1-Methylnaphthalene



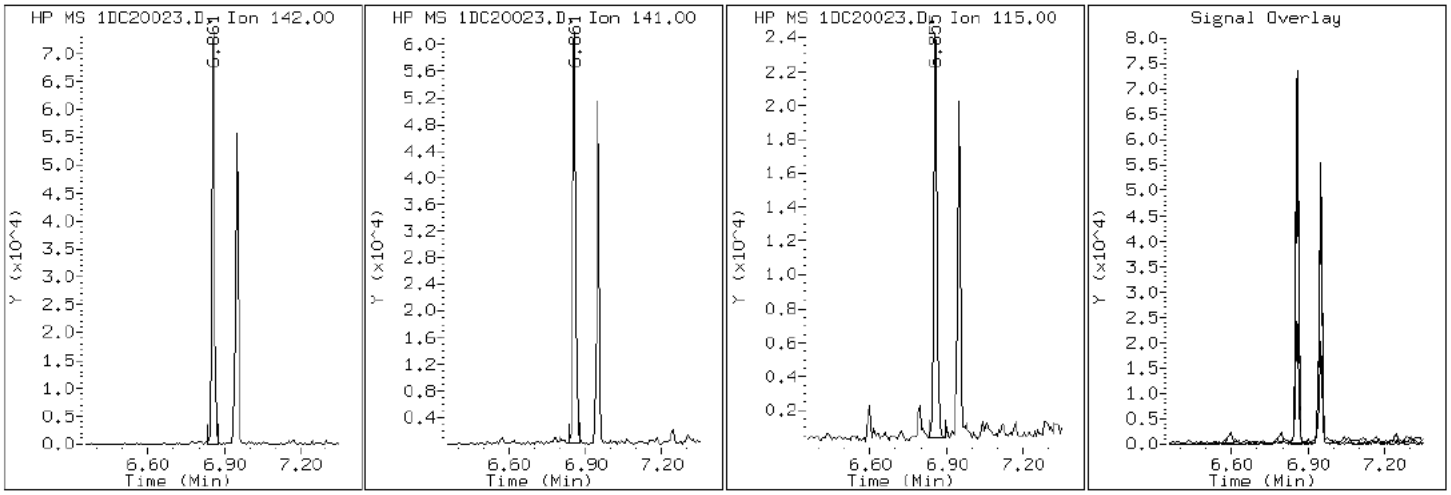
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

3 2-Methylnaphthalene



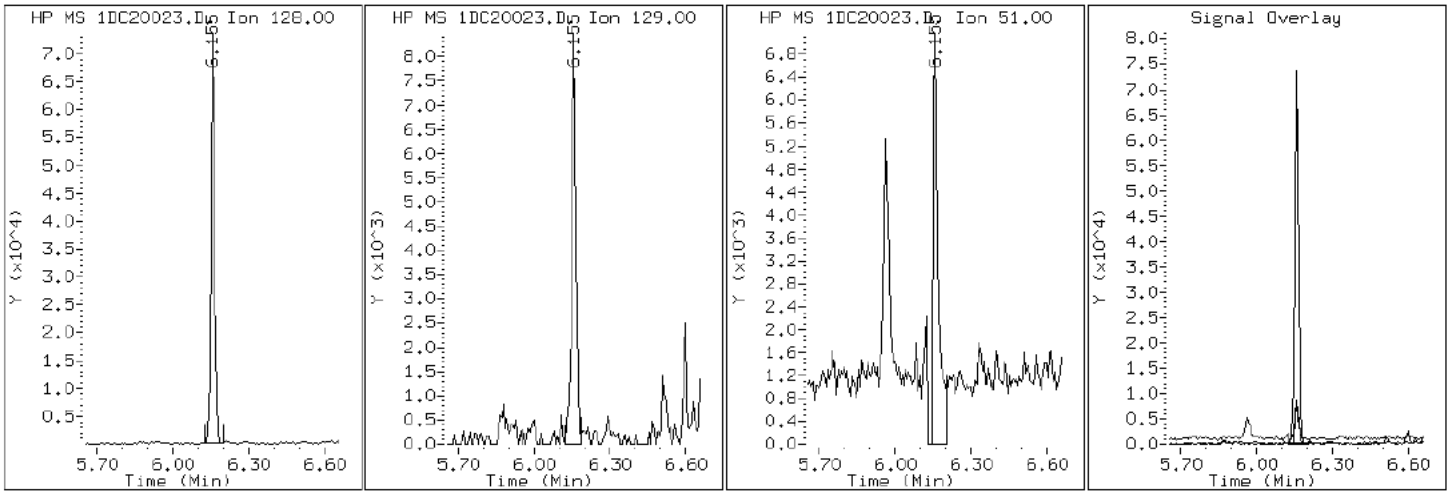
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

2 Naphthalene



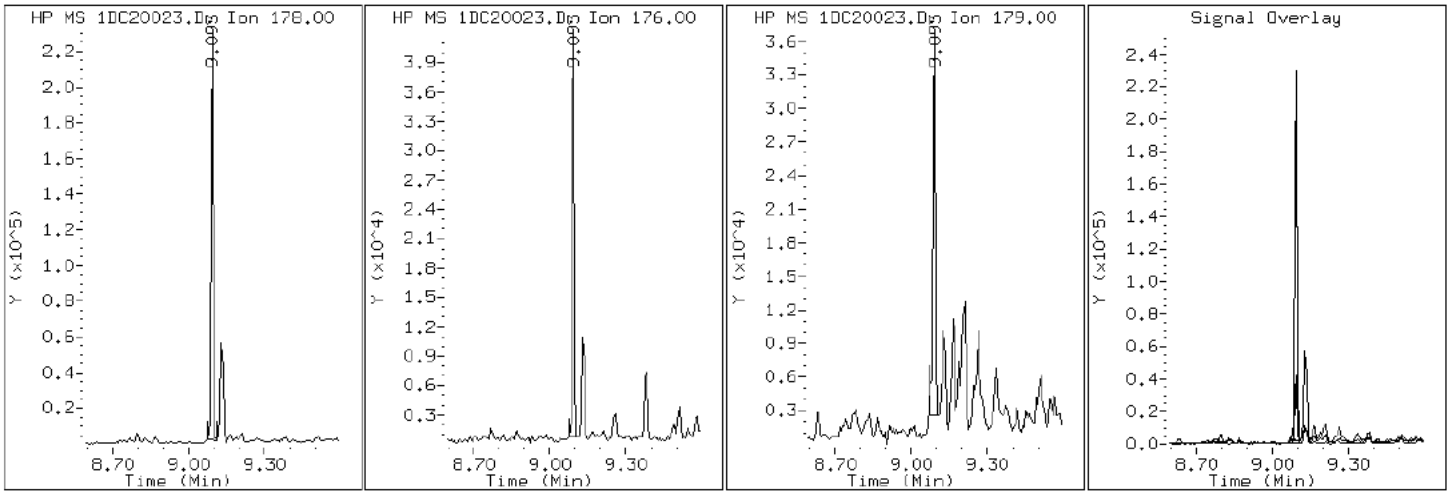
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

10 Phenanthrene



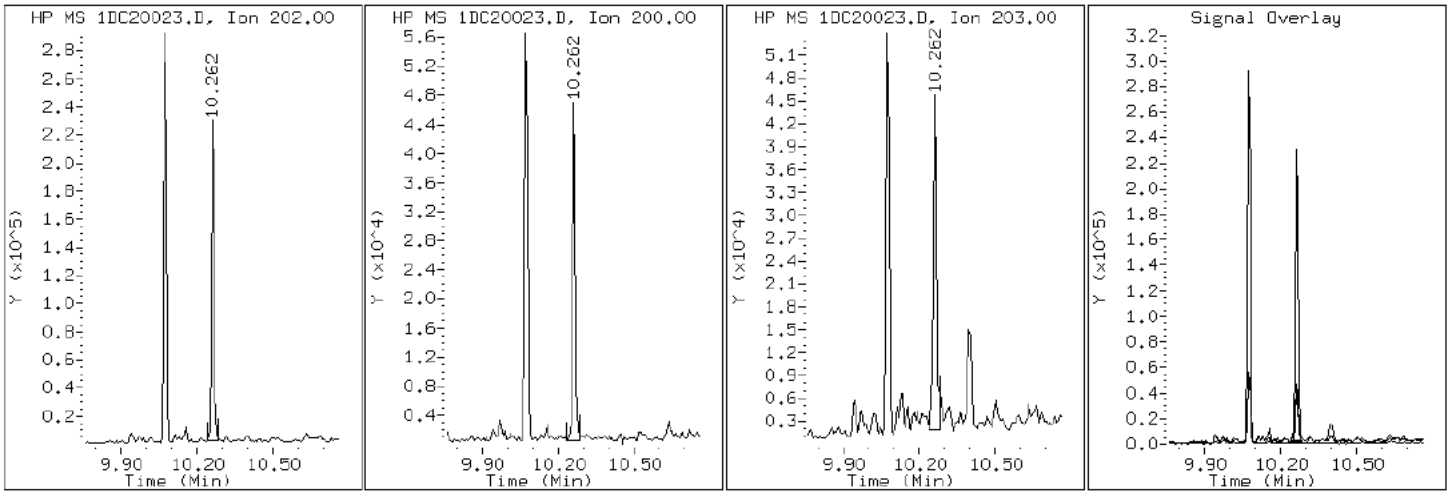
Data File: 1DC20023.D

Date: 20-MAR-2013 20:02

Client ID: CV1355B-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-17-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20023.D
Inj. Date and Time: 20-MAR-2013 20:02
Instrument ID: BSMSD.i
Client ID: CV1355B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

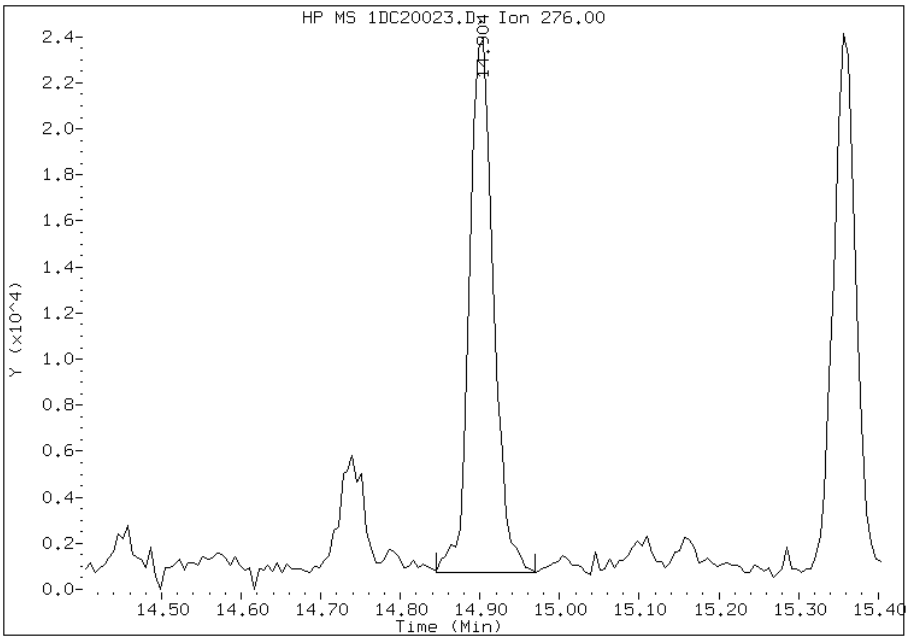
Processing Integration Results

RT: 14.90

Response: 48686

Amount: 1

Conc: 61



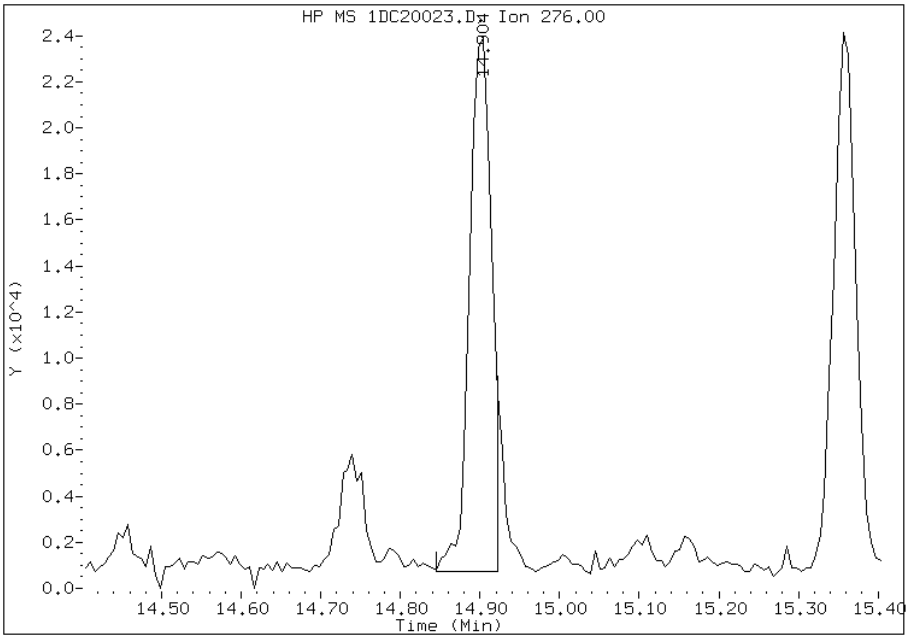
Manual Integration Results

RT: 14.90

Response: 44741

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: FM0020A-CS | Lab Sample ID: 680-88298-18

Matrix: Solid | Lab File ID: 1DC20024.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 09:15

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.01(g) | Date Analyzed: 03/20/2013 20:25

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

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

% Moisture: 36.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135596 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	160	31
208-96-8	Acenaphthylene	63	U	63	7.8
120-12-7	Anthracene	54		13	6.6
56-55-3	Benzo[a]anthracene	230		13	6.1
50-32-8	Benzo[a]pyrene	200		16	8.1
205-99-2	Benzo[b]fluoranthene	350		19	9.5
191-24-2	Benzo[g,h,i]perylene	82		31	6.9
207-08-9	Benzo[k]fluoranthene	130		13	5.6
218-01-9	Chrysene	240		14	7.0
53-70-3	Dibenz(a,h)anthracene	29	J	31	6.4
206-44-0	Fluoranthene	460		31	6.3
86-73-7	Fluorene	23	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	91		31	11
90-12-0	1-Methylnaphthalene	38	J	63	6.9
91-57-6	2-Methylnaphthalene	50	J	63	11
91-20-3	Naphthalene	53	J	63	6.9
85-01-8	Phenanthrene	250		13	6.1
129-00-0	Pyrene	340		31	5.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20024.D
Lab Smp Id: 680-88298-A-18-A Client Smp ID: FM0020A-CS
Inj Date : 20-MAR-2013 20:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88298-A-18-A
Misc Info : 680-88298-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	36.100	% 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	6.137	6.131	(1.000)	3114229	40.0000	
* 6	Acenaphthene-d10	164	7.811	7.805	(1.000)	1980774	40.0000	
* 9	Phenanthrene-d10	188	9.075	9.068	(1.000)	3288383	40.0000	
$ 13	o-Terphenyl	230	9.380	9.380	(1.034)	307812	6.05314	630
* 17	Chrysene-d12	240	11.419	11.413	(1.000)	3328806	40.0000	
* 22	Perylene-d12	264	13.287	13.281	(1.000)	2766232	40.0000	
2	Naphthalene	128	6.155	6.154	(1.003)	42611	0.51149	53
3	2-Methylnaphthalene	142	6.860	6.853	(1.118)	25428	0.47916	50
4	1-Methylnaphthalene	142	6.948	6.947	(1.132)	17942	0.36105	38
5	Acenaphthylene	152	7.682	7.682	(0.983)	6158	0.07052	7.4
7	Acenaphthene	154	7.835	7.835	(1.003)	17550	0.32960	34
8	Fluorene	166	8.276	8.275	(1.059)	13485	0.21676	22
10	Phenanthrene	178	9.092	9.092	(1.002)	223791	2.39743	250
11	Anthracene	178	9.133	9.133	(1.006)	48261	0.51674	54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.269	9.268	(1.021)	39538	0.47356	49
14 Fluoranthene	202	10.079	10.073	(1.111)	425480	4.36776	460
15 Pyrene	202	10.267	10.261	(0.899)	339677	3.28964	340
16 Benzo(a)anthracene	228	11.401	11.389	(0.998)	204429	2.24314	230
18 Chrysene	228	11.437	11.436	(1.002)	215485	2.29026	240
19 Benzo(b)fluoranthene	252	12.729	12.723	(0.958)	240741	3.38109	350
20 Benzo(k)fluoranthene	252	12.759	12.764	(0.960)	92968	1.24704	130
21 Benzo(a)pyrene	252	13.182	13.181	(0.992)	136350	1.93513	200
23 Indeno(1,2,3-cd)pyrene	276	14.891	14.903	(1.121)	65406	0.86983	91(M)
24 Dibenzo(a,h)anthracene	278	14.921	14.932	(1.123)	19529	0.28122	29
25 Benzo(g,h,i)perylene	276	15.344	15.361	(1.155)	56586	0.78928	82

QC Flag Legend

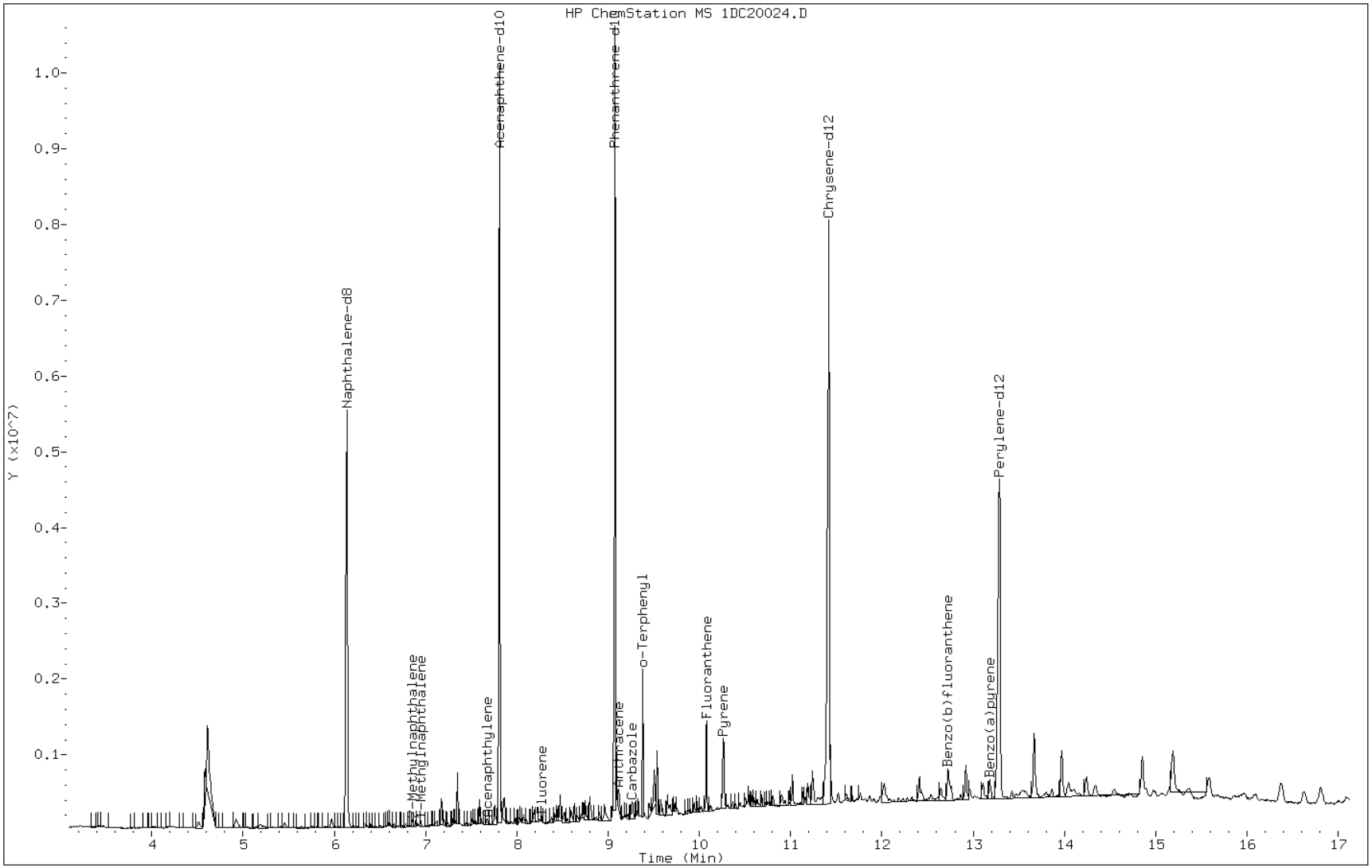
M - Compound response manually integrated.

Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC



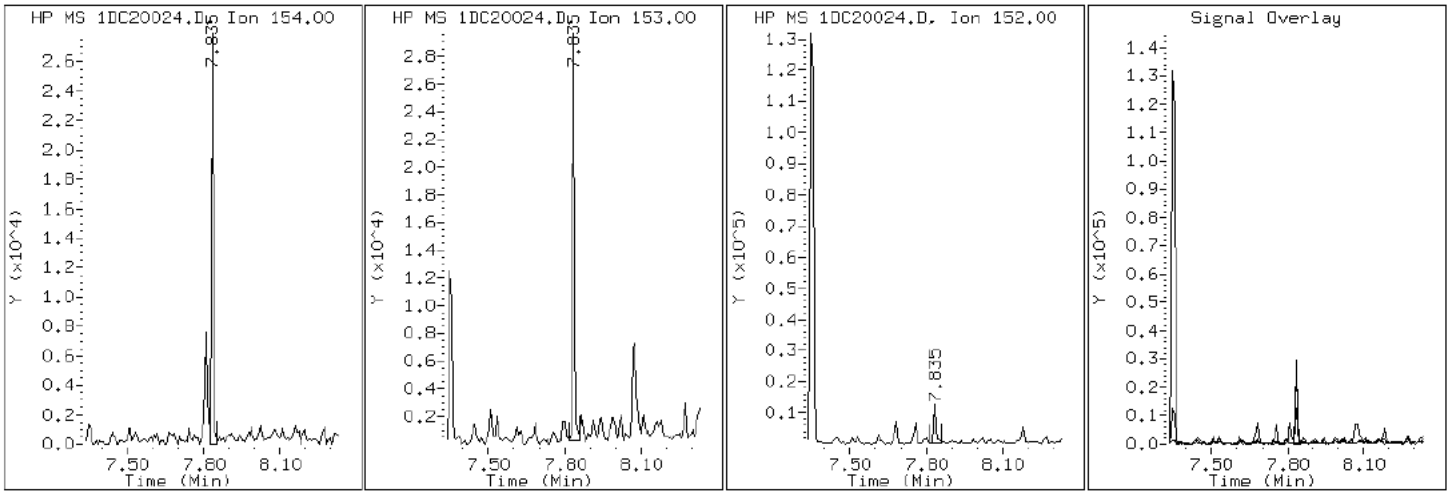
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

7 Acenaphthene



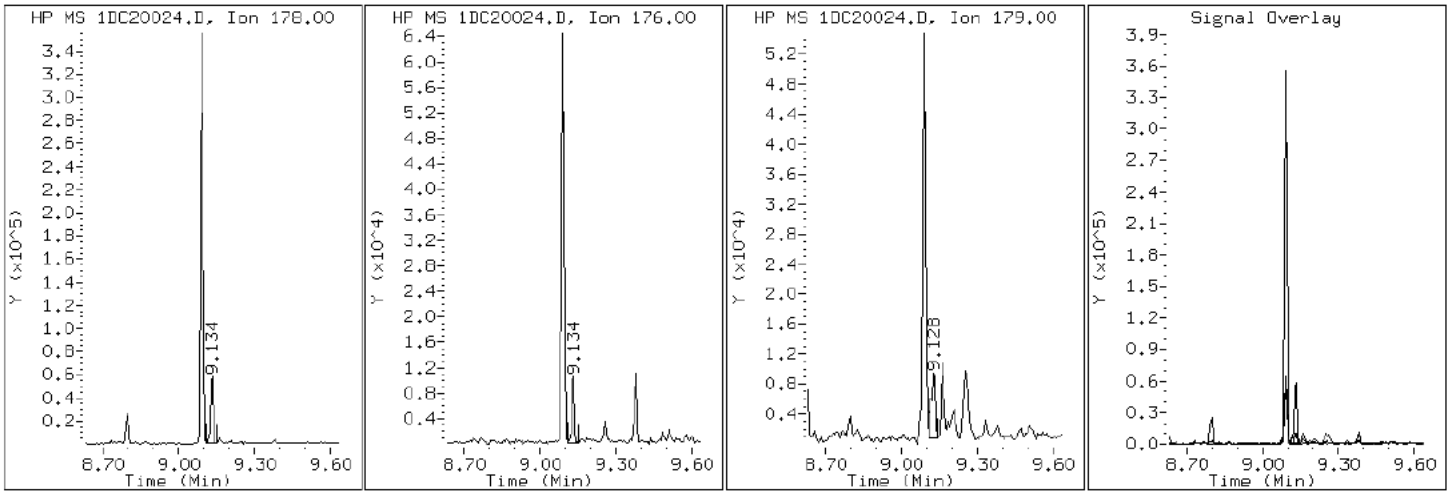
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

11 Anthracene



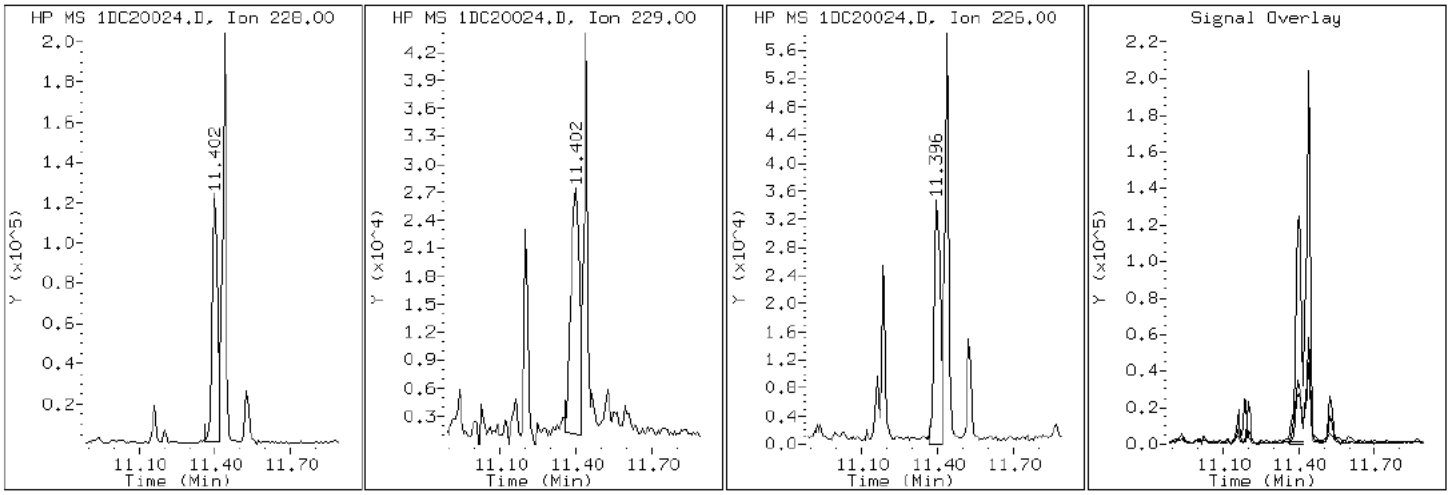
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

16 Benzo(a)anthracene



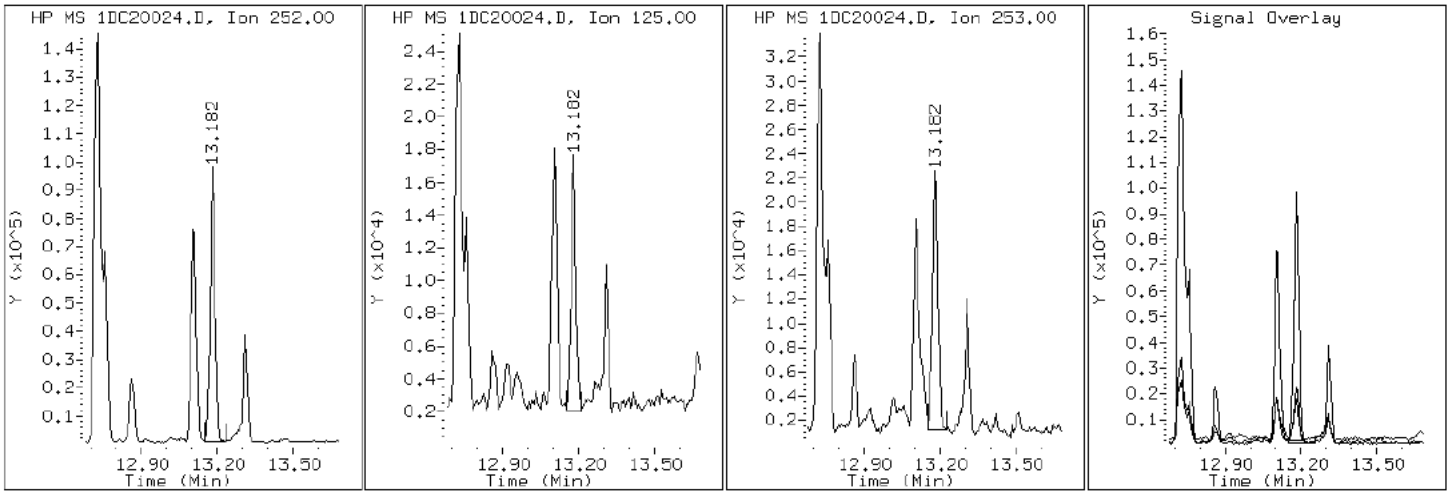
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

21 Benzo(a)pyrene



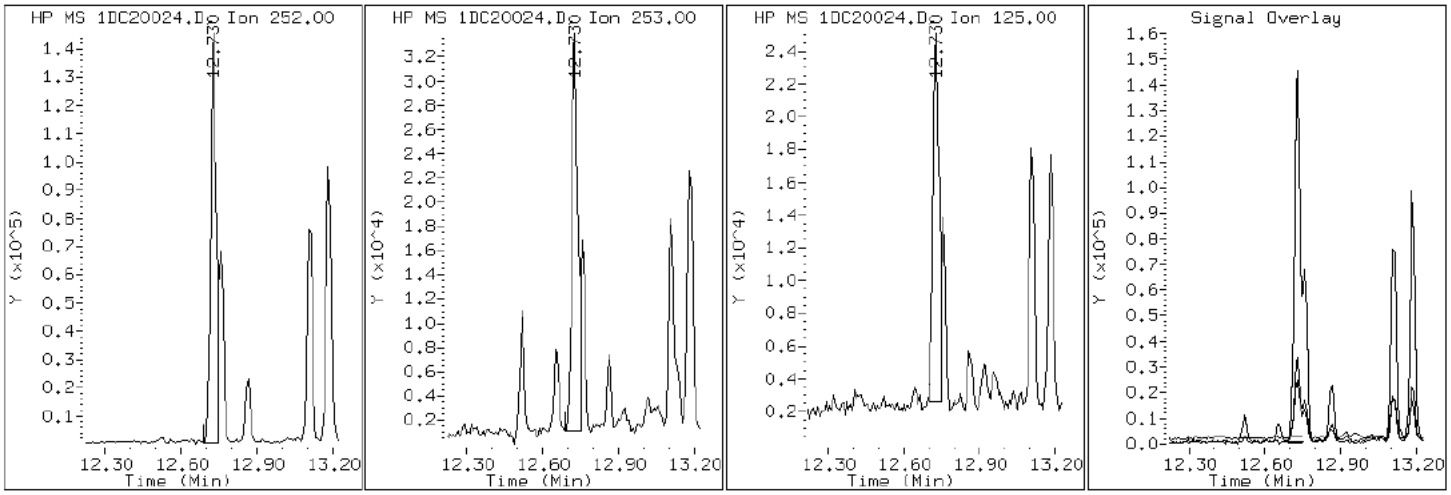
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

19 Benzo(b)fluoranthene



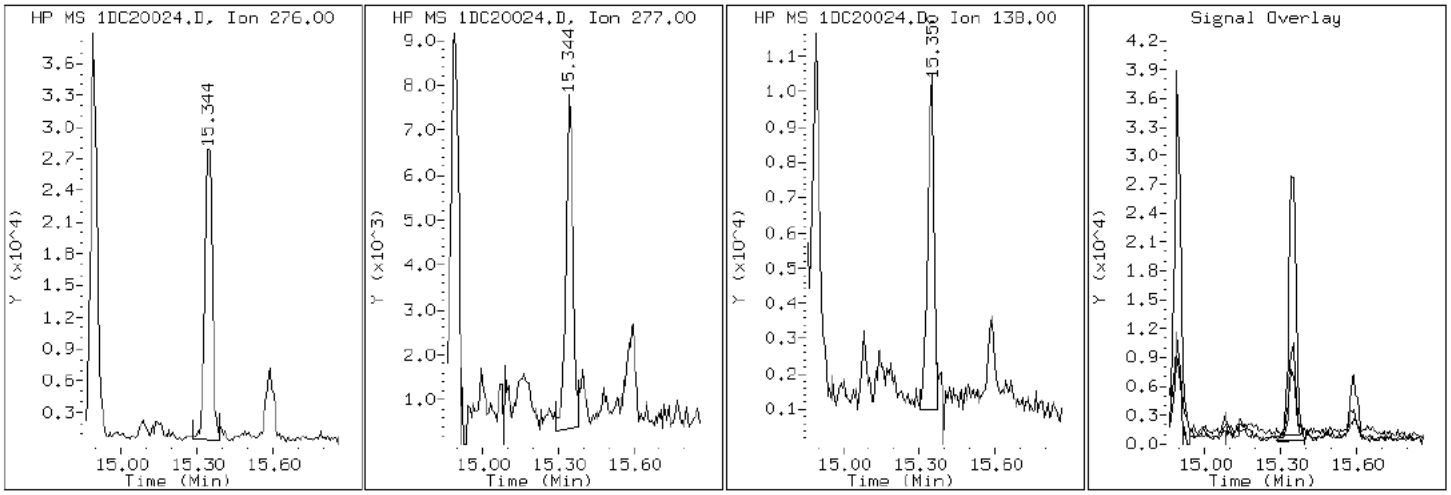
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

25 Benzo(g,h,i)perylene



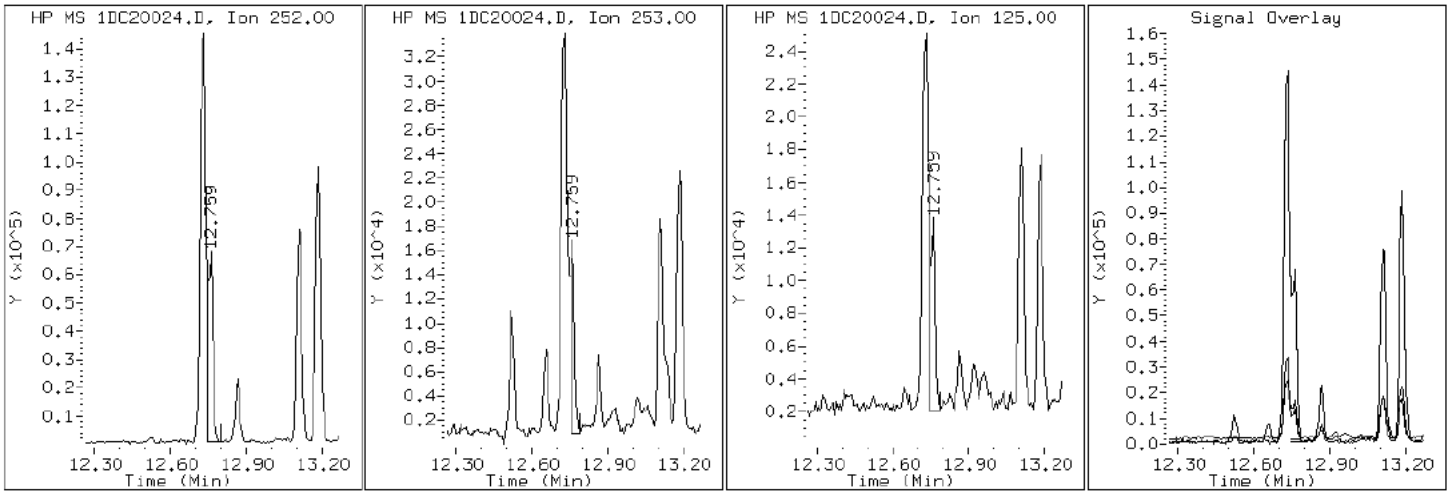
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

20 Benzo(k)fluoranthene



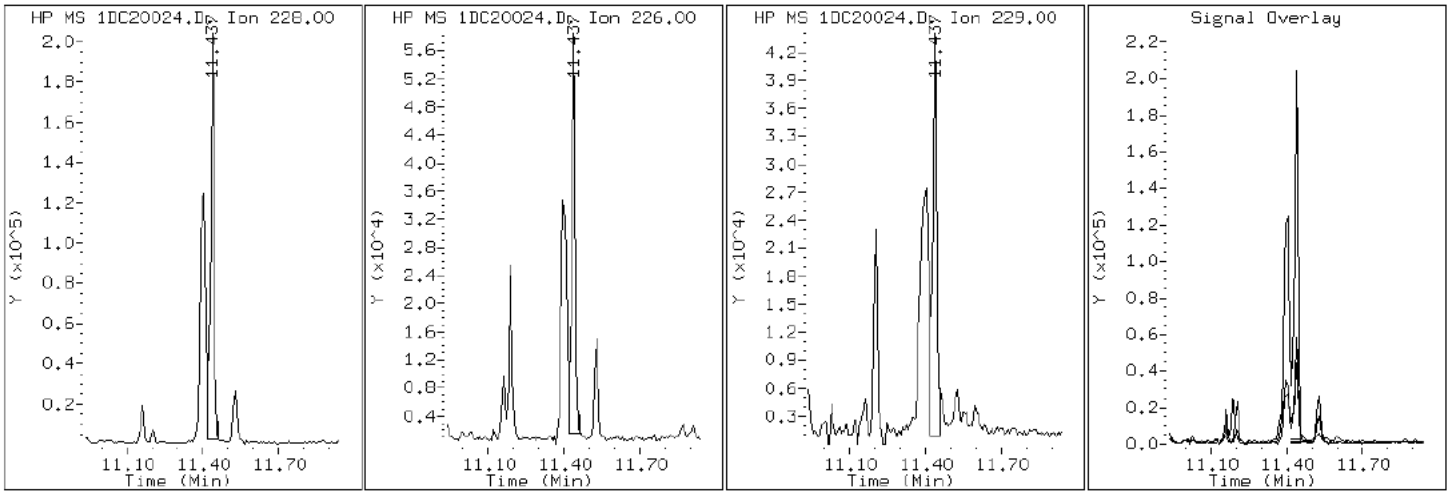
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

18 Chrysene



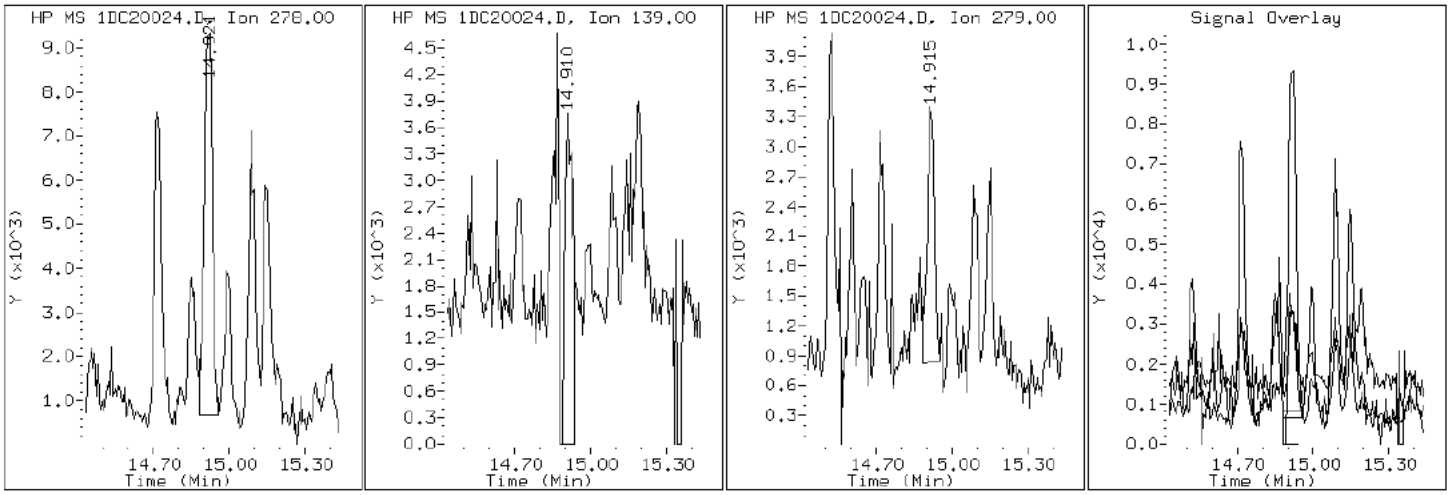
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

24 Dibenzo(a,h)anthracene



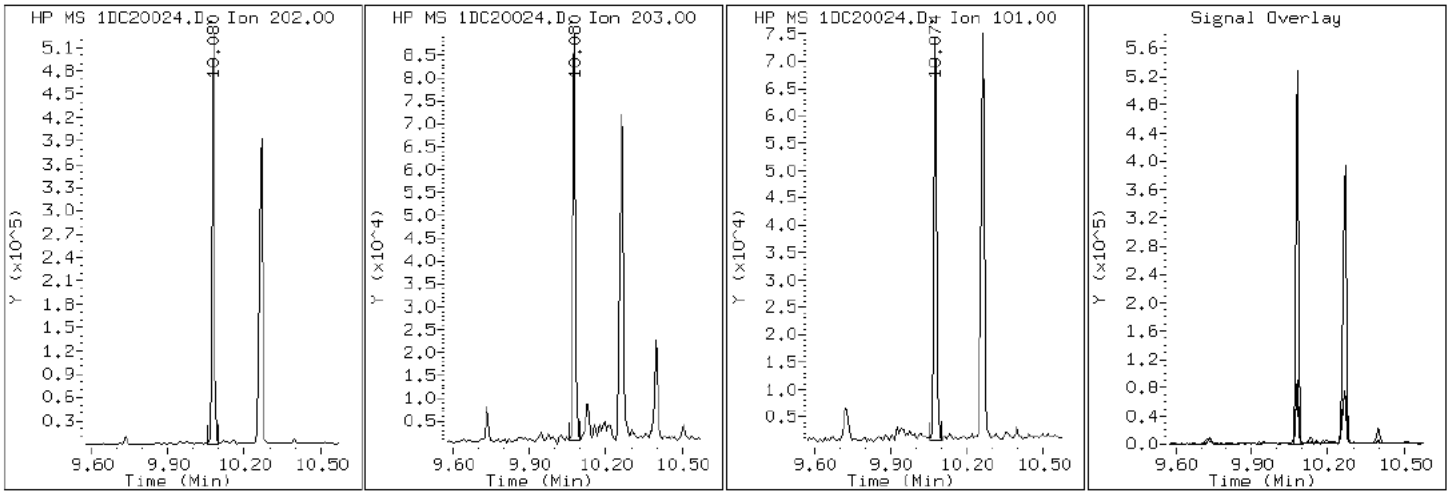
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

14 Fluoranthene



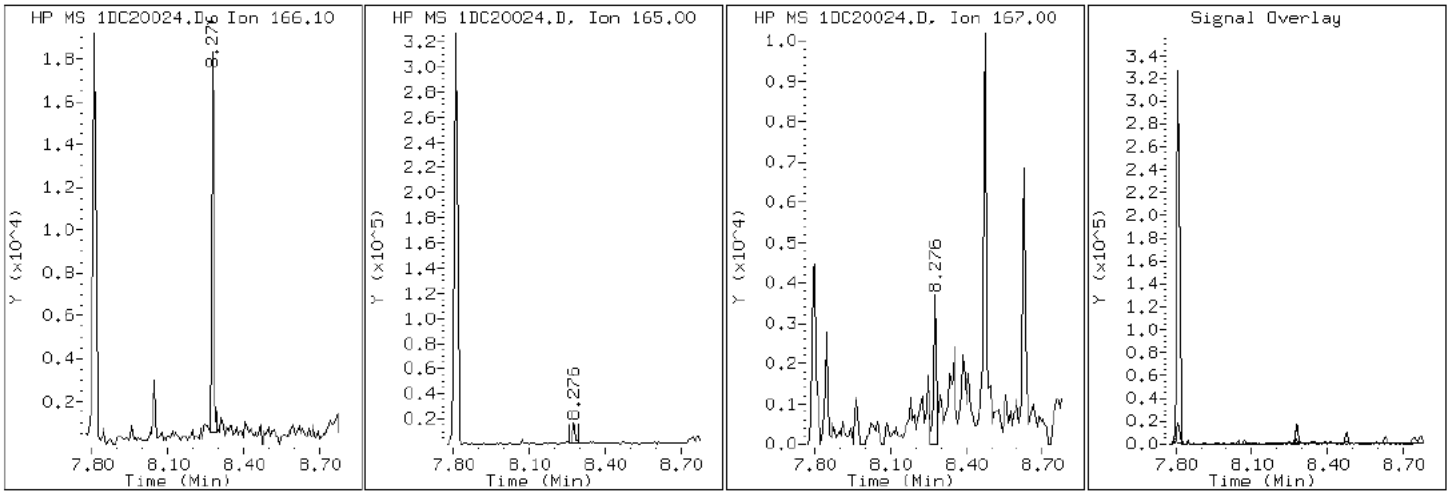
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

8 Fluorene



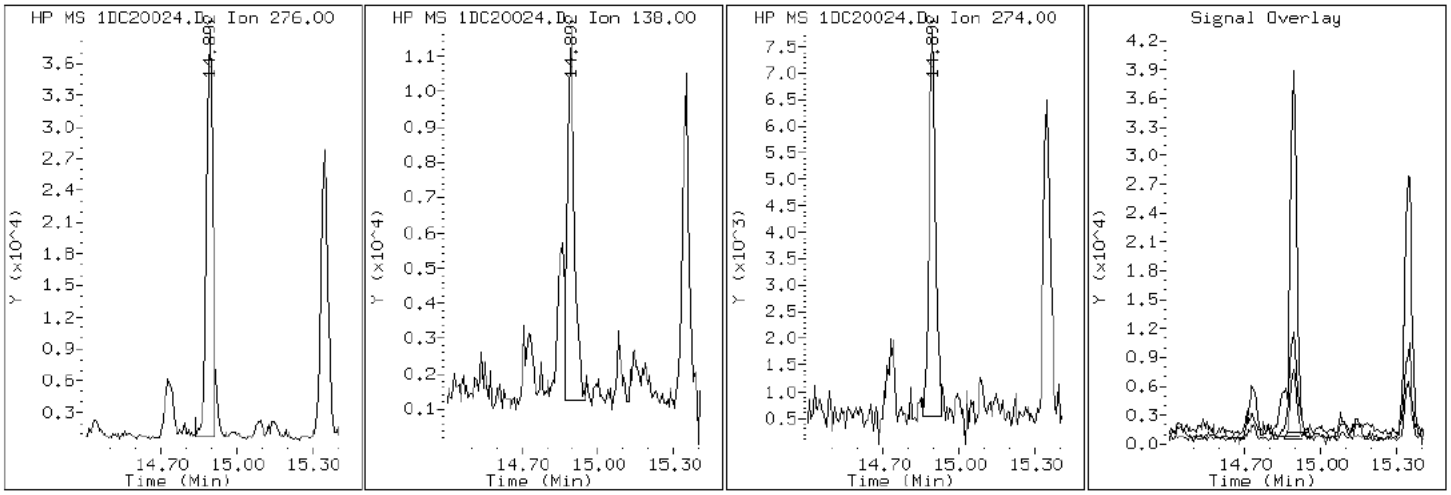
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

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



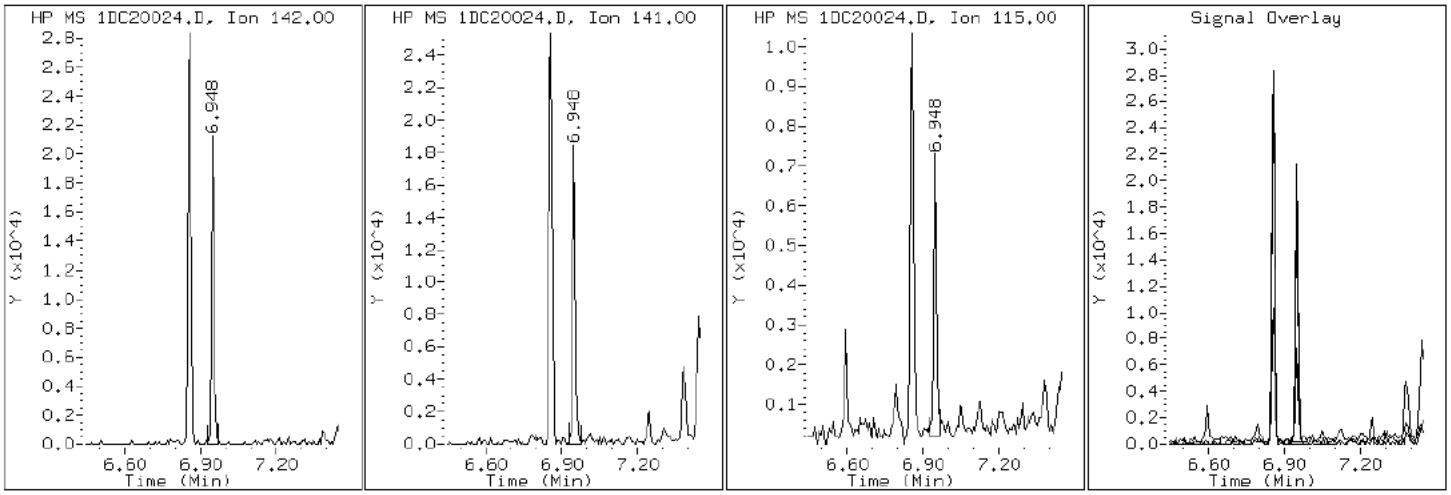
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

4 1-Methylnaphthalene



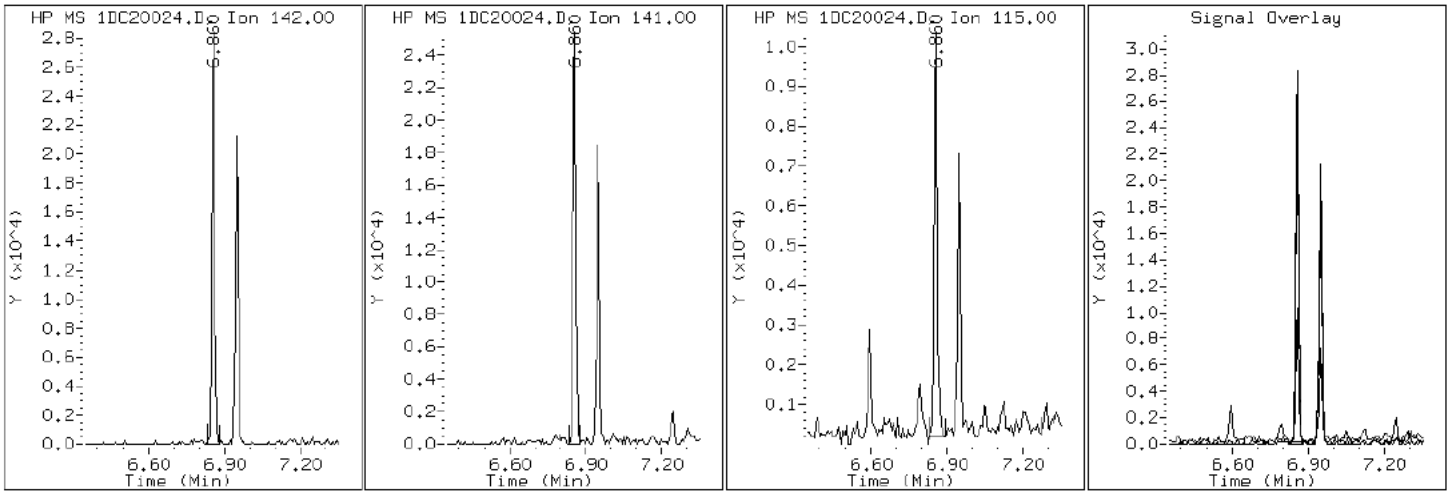
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

3 2-Methylnaphthalene



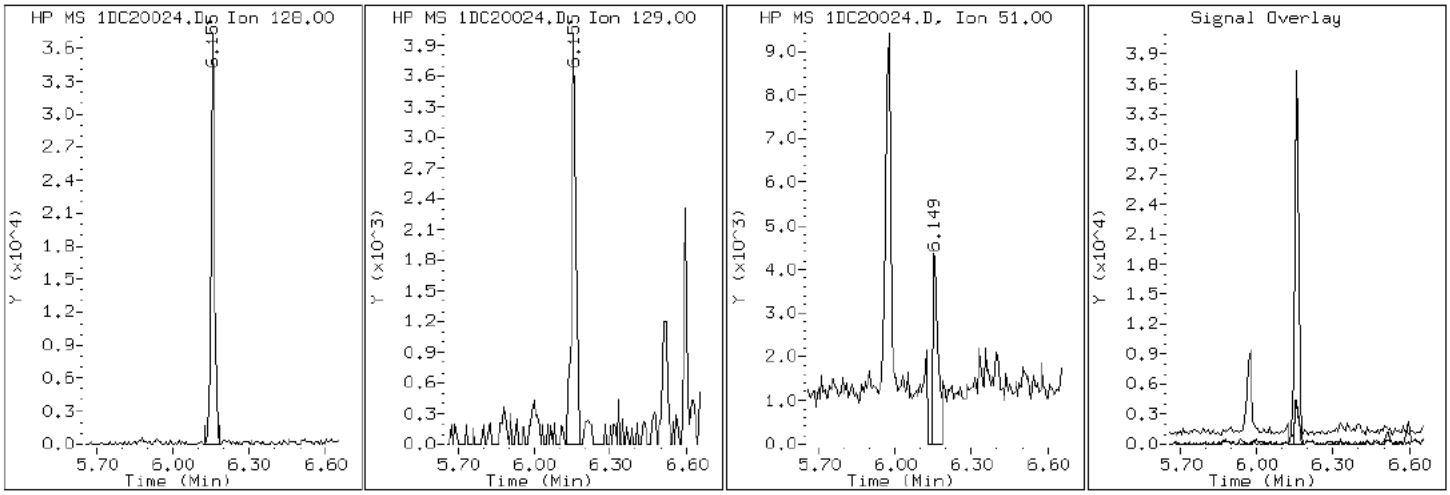
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

2 Naphthalene



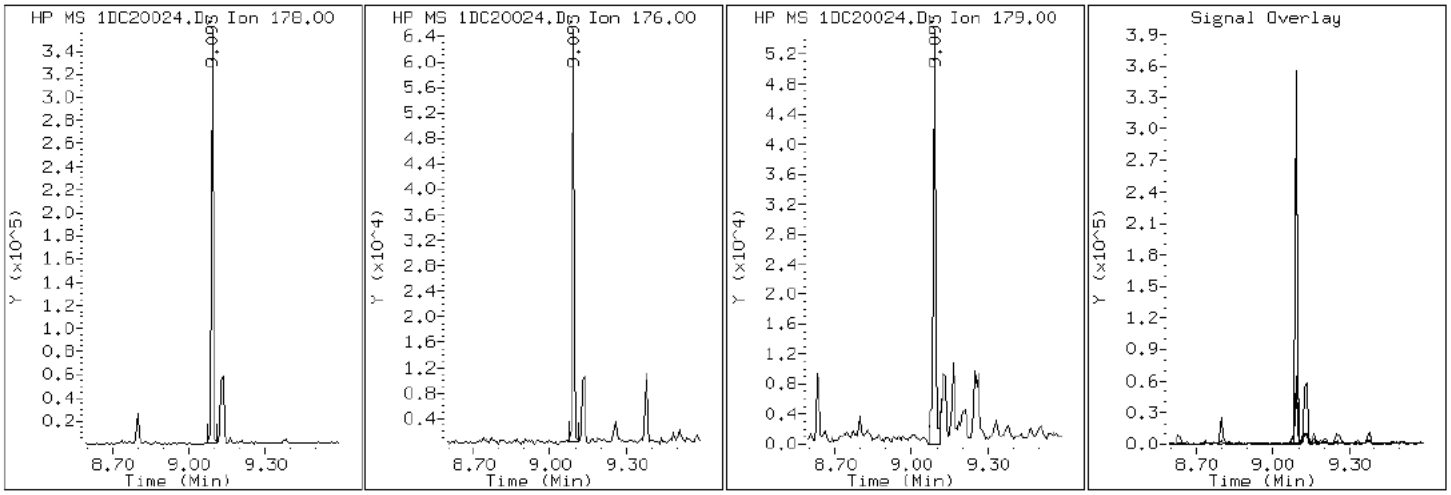
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

10 Phenanthrene



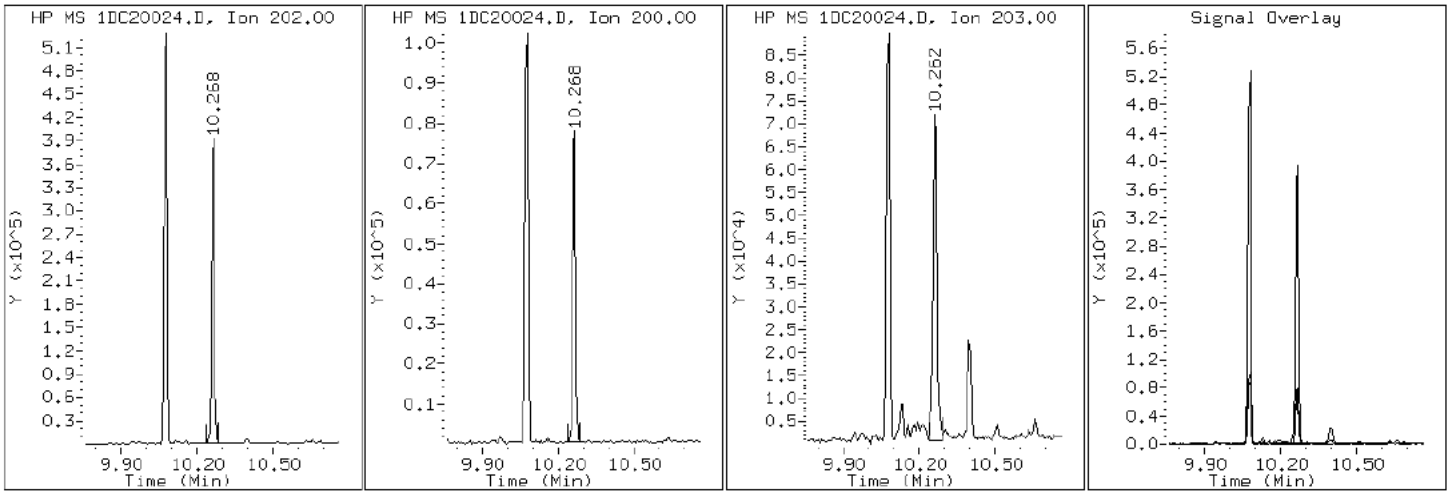
Data File: 1DC20024.D

Date: 20-MAR-2013 20:25

Client ID: FM0020A-CS Instrument: BSMSD.i

Sample Info: 680-88298-A-18-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC20024.D
Inj. Date and Time: 20-MAR-2013 20:25
Instrument ID: BSMSD.i
Client ID: FM0020A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

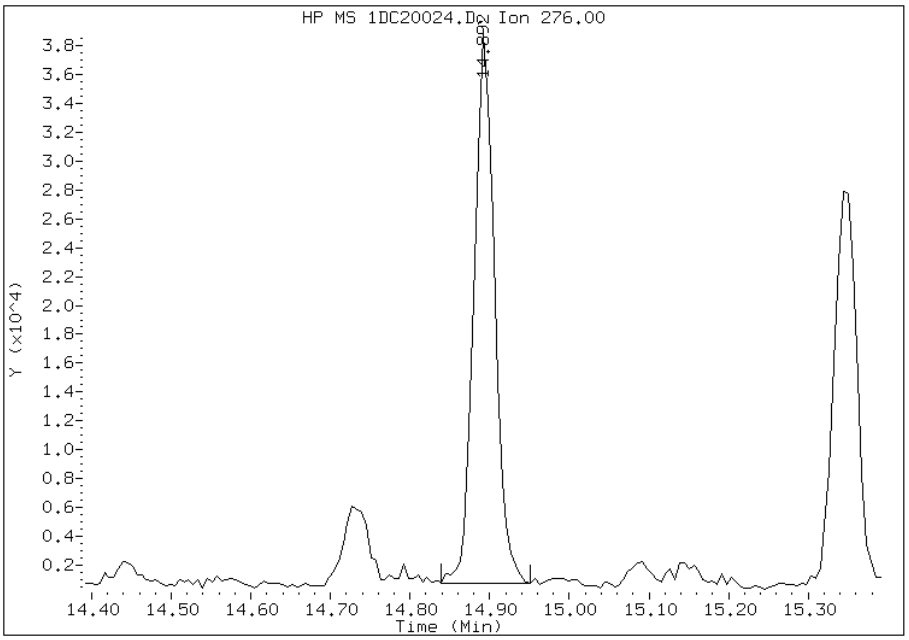
Processing Integration Results

RT: 14.89

Response: 68301

Amount: 1

Conc: 95



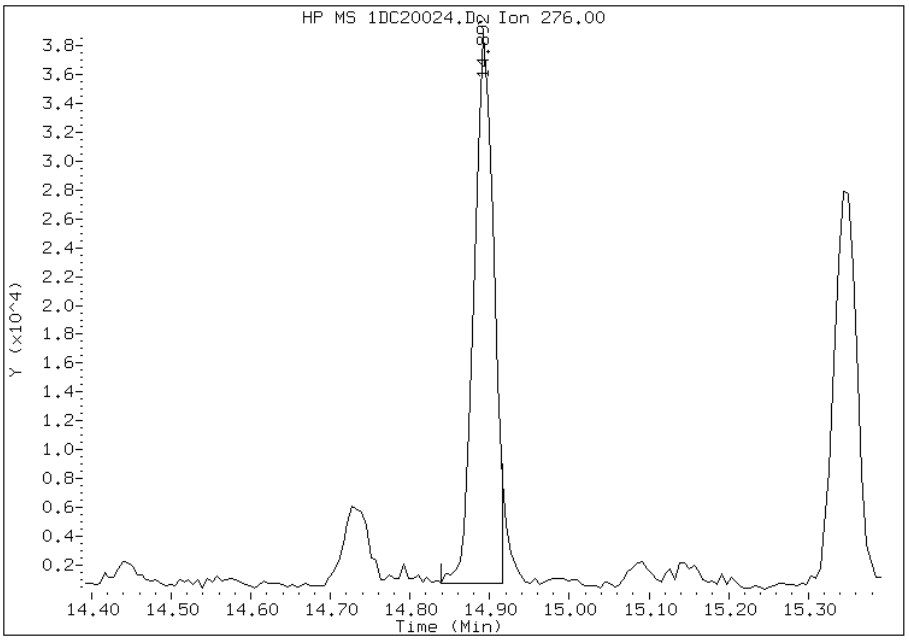
Manual Integration Results

RT: 14.89

Response: 65406

Amount: 1

Conc: 91



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: FM0020B-CS | Lab Sample ID: 680-88298-19

Matrix: Solid | Lab File ID: 1CC21034.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 09:30

Extract. Method: 3546 | Date Extracted: 03/20/2013 08:31

Sample wt/vol: 15.26(g) | Date Analyzed: 03/21/2013 21:04

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

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

% Moisture: 34.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	60	U	60	7.5
120-12-7	Anthracene	6.7	J	13	6.3
56-55-3	Benzo[a]anthracene	45		12	5.9
50-32-8	Benzo[a]pyrene	40		16	7.8
205-99-2	Benzo[b]fluoranthene	59		18	9.2
191-24-2	Benzo[g,h,i]perylene	33		30	6.6
207-08-9	Benzo[k]fluoranthene	28		12	5.4
218-01-9	Chrysene	55		14	6.8
53-70-3	Dibenz(a,h)anthracene	13	J	30	6.2
206-44-0	Fluoranthene	61		30	6.0
86-73-7	Fluorene	6.7	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	25	J	30	11
90-12-0	1-Methylnaphthalene	20	J	60	6.6
91-57-6	2-Methylnaphthalene	28	J	60	11
91-20-3	Naphthalene	44	J	60	6.6
85-01-8	Phenanthrene	41		12	5.9
129-00-0	Pyrene	56		30	5.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21034.D
Lab Smp Id: 680-88298-A-19-A Client Smp ID: FM0020B-CS
Inj Date : 21-MAR-2013 21:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-19-a
Misc Info : 680-88298-A-19-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	34.879	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.739	3.739	(1.000)	927495	40.0000	
*	6 Acenaphthene-d10	164	4.827	4.827	(1.000)	749296	40.0000	
*	10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1372231	40.0000	
$	14 o-Terphenyl	230	6.027	6.027	(1.044)	147210	7.10530	715.0011
*	18 Chrysene-d12	240	7.715	7.715	(1.000)	1399354	40.0000	
*	23 Perylene-d12	264	8.904	8.898	(1.000)	1329026	40.0000	
	2 Naphthalene	128	3.751	3.751	(1.003)	10523	0.43580	43.8546(Q)
	3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	4543	0.28206	28.3833
	4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	2873	0.19585	19.7084(Q)
	9 Fluorene	166	5.174	5.162	(1.072)	1584	0.06670	6.7124
	11 Phenanthrene	178	5.792	5.792	(1.003)	16226	0.40893	41.1506
	12 Anthracene	178	5.821	5.821	(1.008)	2574	0.06633	6.6747
	13 Carbazole	167	5.933	5.933	(1.028)	2862	0.08297	8.3489(Q)
	15 Fluoranthene	202	6.627	6.627	(1.148)	26507	0.61001	61.3852

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.798	6.792	(0.881)	20746	0.55167	55.5144
17 Benzo(a)anthracene	228	7.710	7.709	(0.999)	18126	0.44880	45.1620
19 Chrysene	228	7.733	7.733	(1.002)	22234	0.55010	55.3557
20 Benzo(b)fluoranthene	252	8.557	8.551	(0.961)	20297	0.58438	58.8060(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.962)	9969	0.27979	28.1552(M)
22 Benzo(a)pyrene	252	8.845	8.845	(0.993)	13249	0.39272	39.5191
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	7767	0.24473	24.6274(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.086	(1.132)	3914	0.12608	12.6877(M)
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	10832	0.32627	32.8327(M)

QC Flag Legend

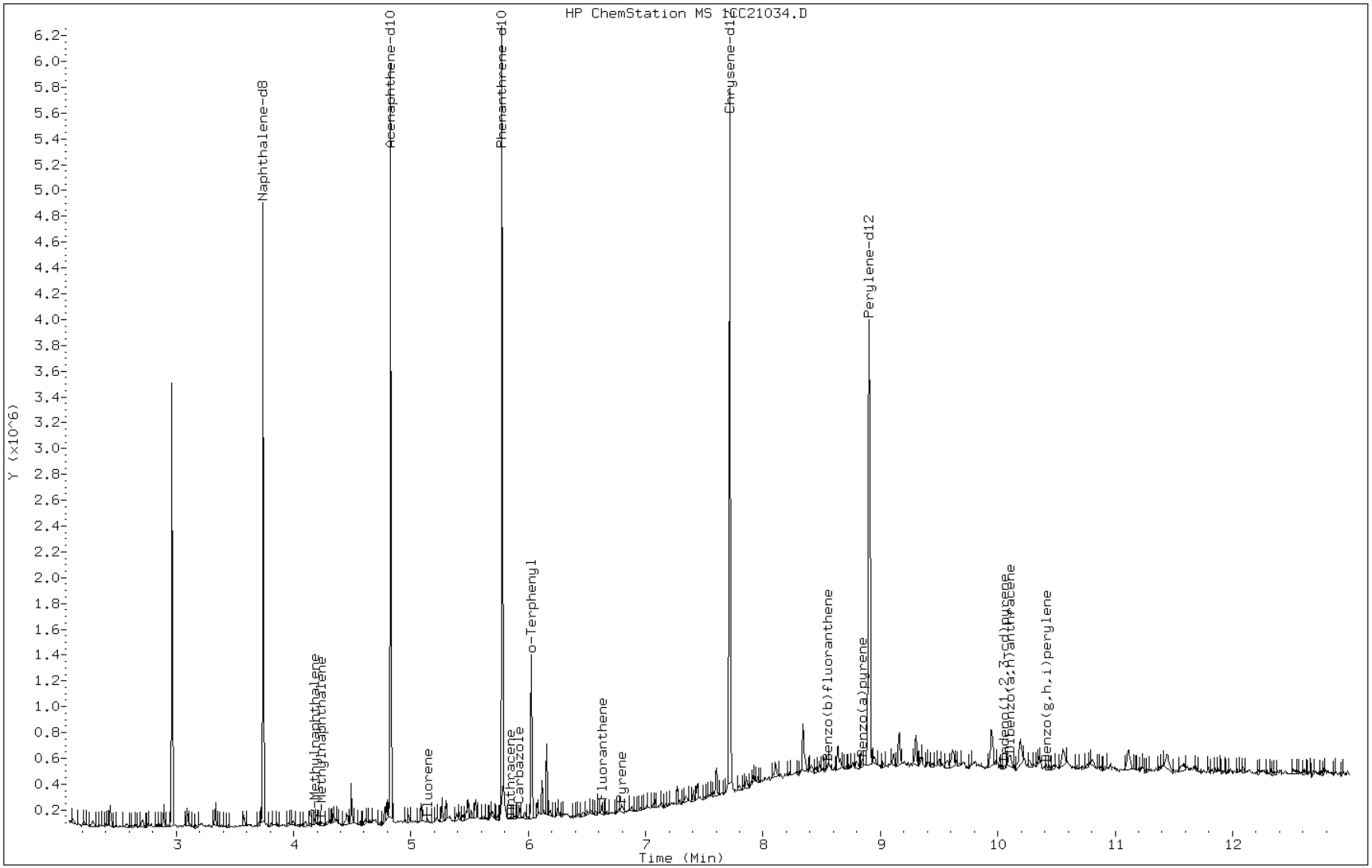
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC



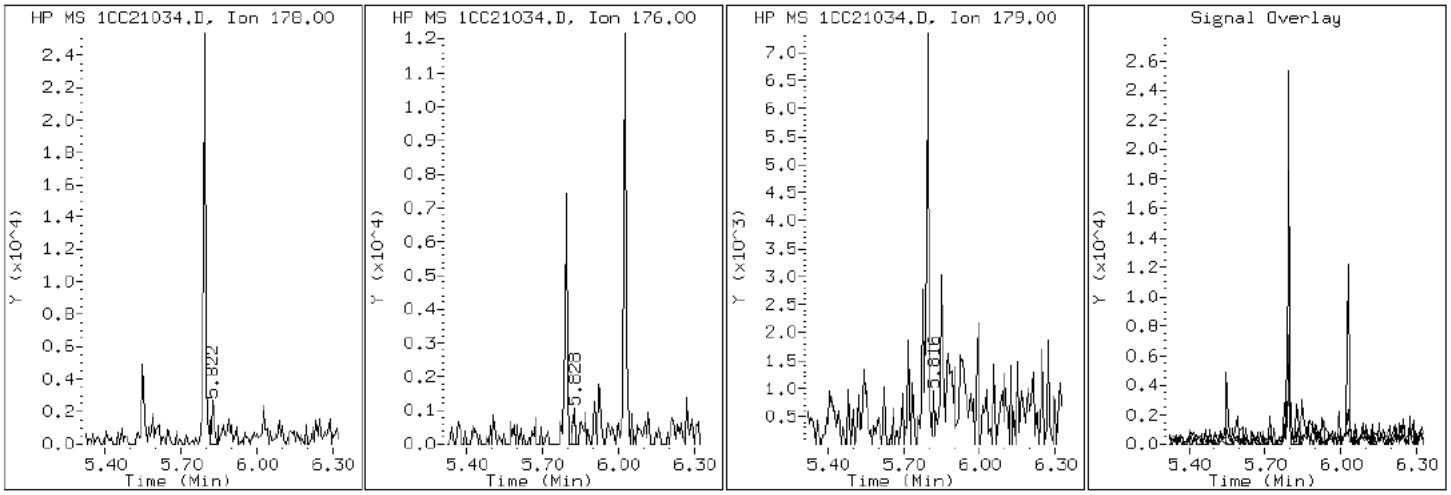
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

12 Anthracene



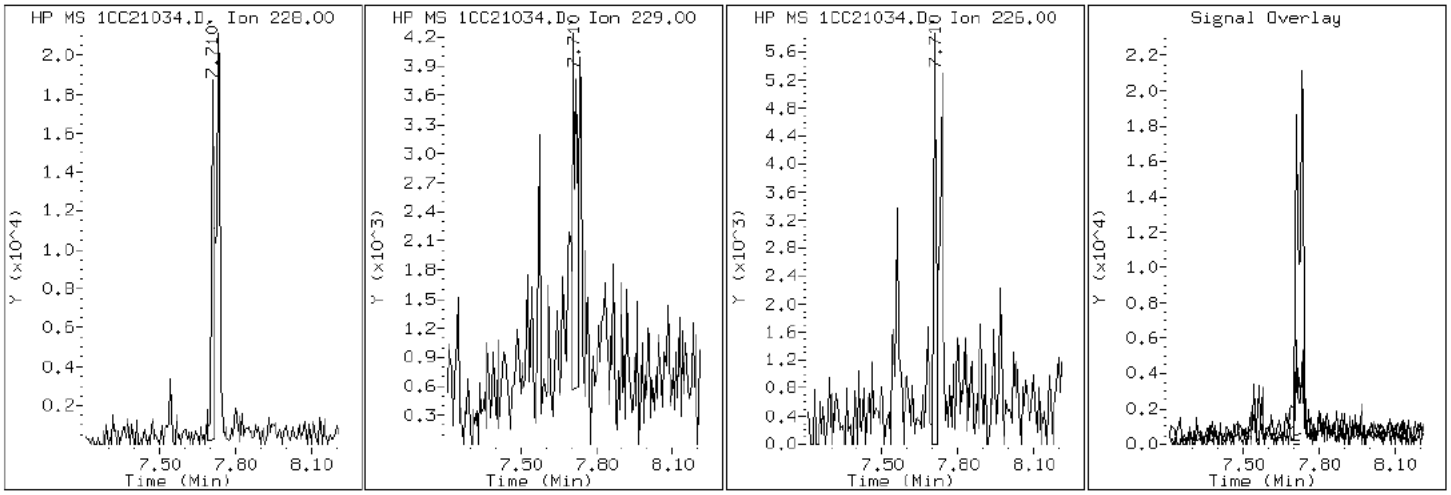
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

17 Benzo(a)anthracene



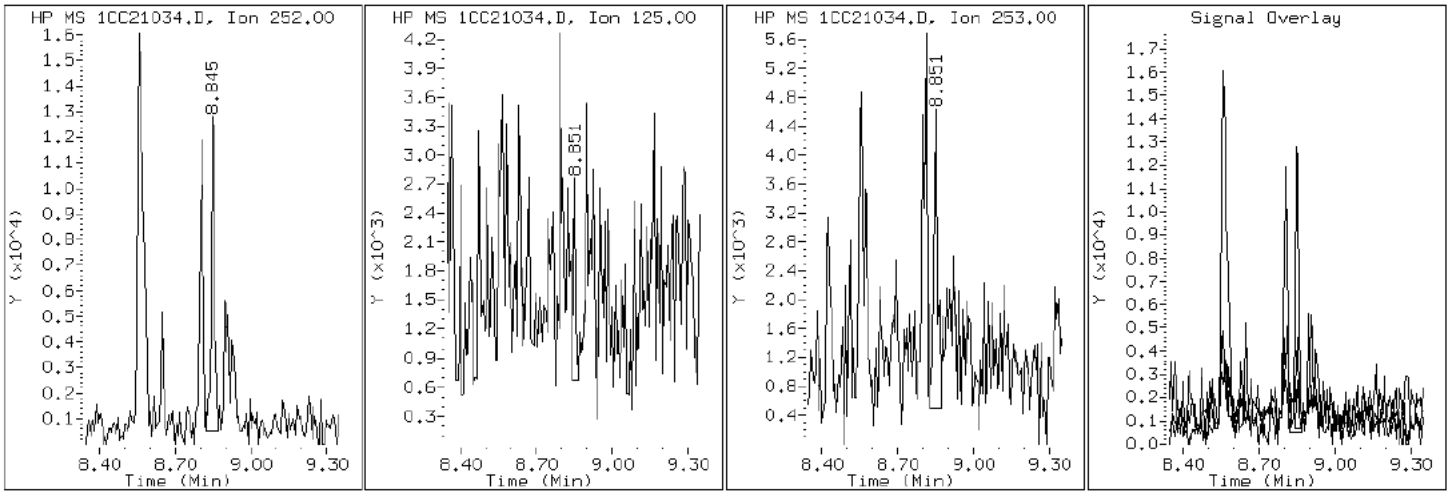
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

22 Benzo(a)pyrene



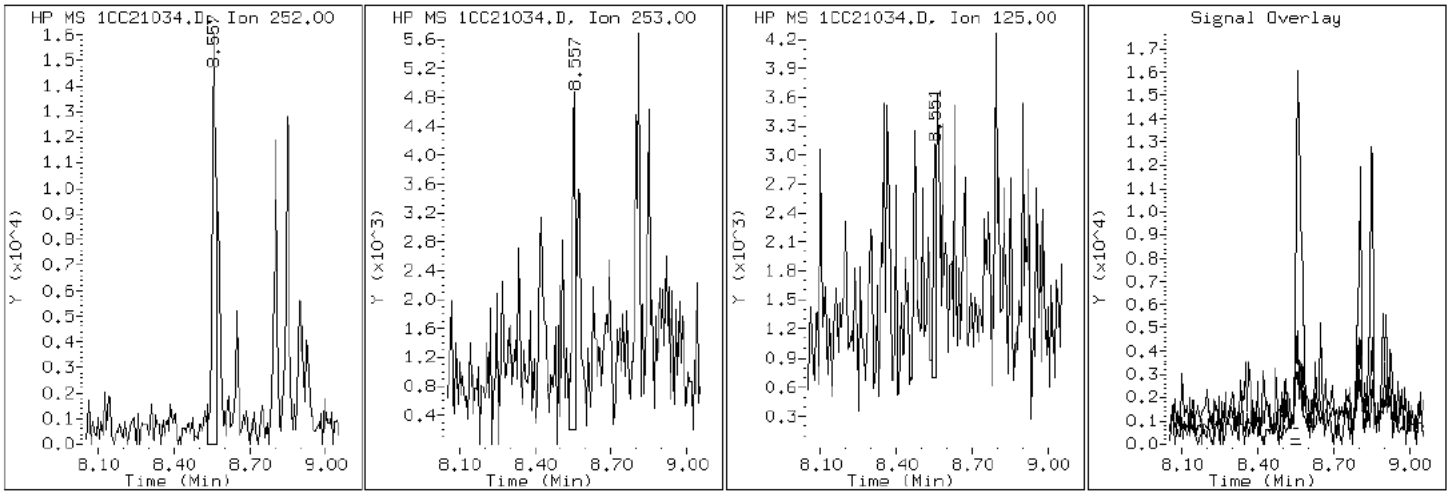
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



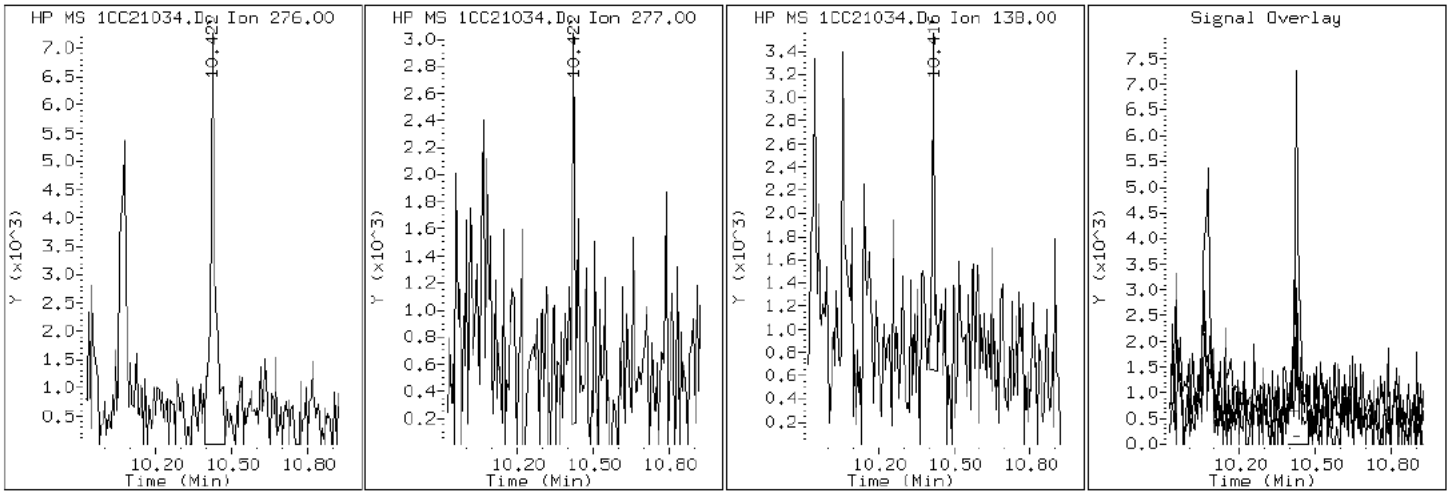
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



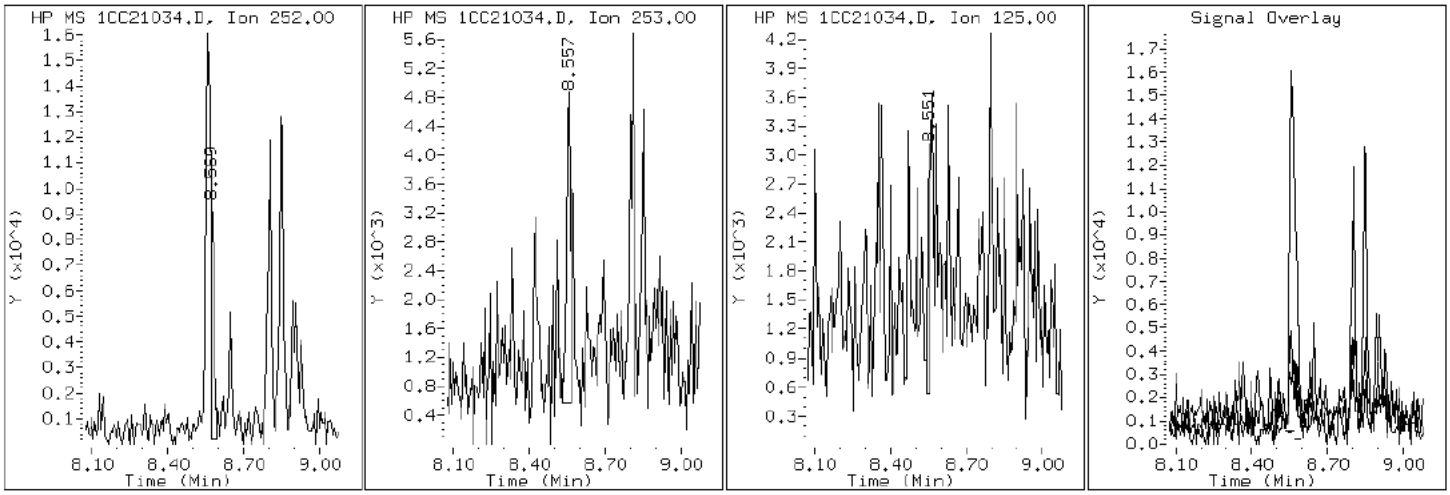
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



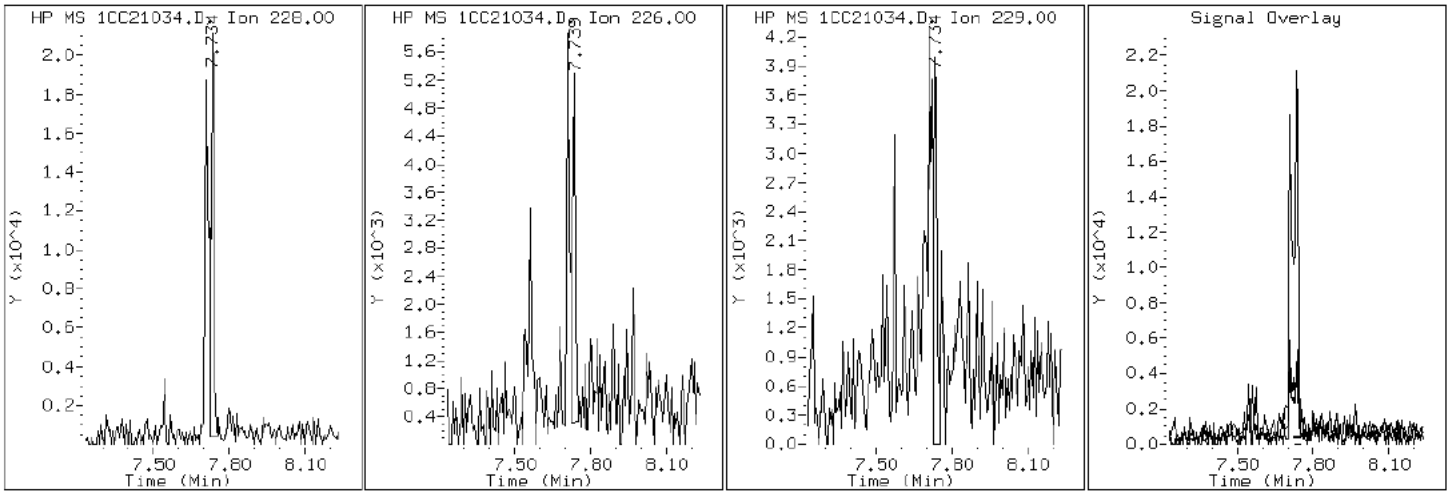
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

19 Chrysene



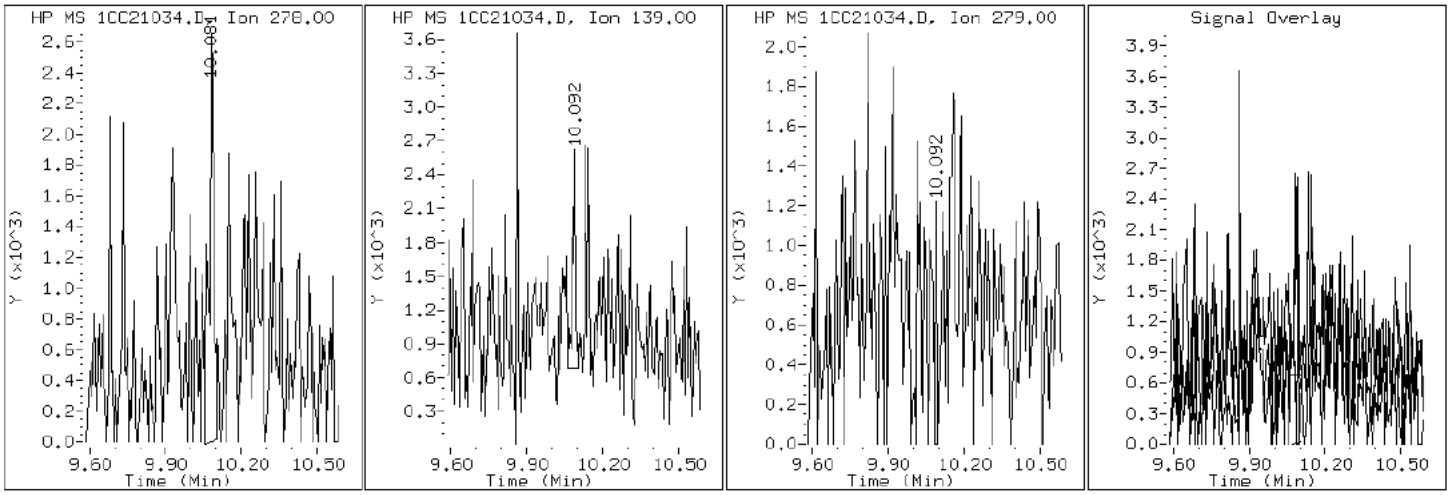
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



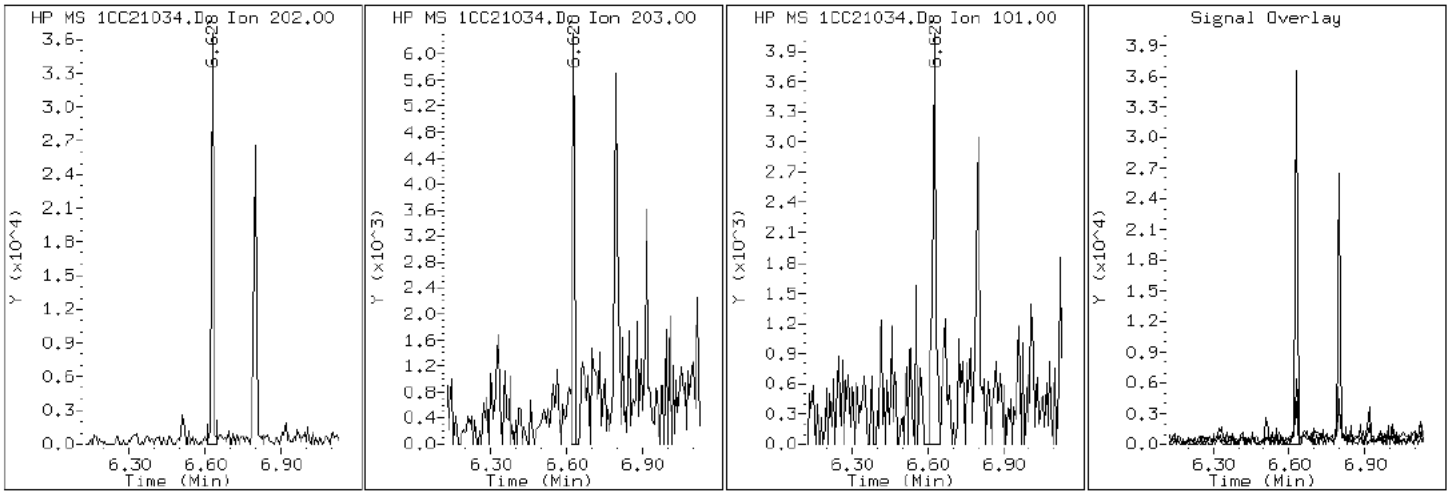
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

15 Fluoranthene



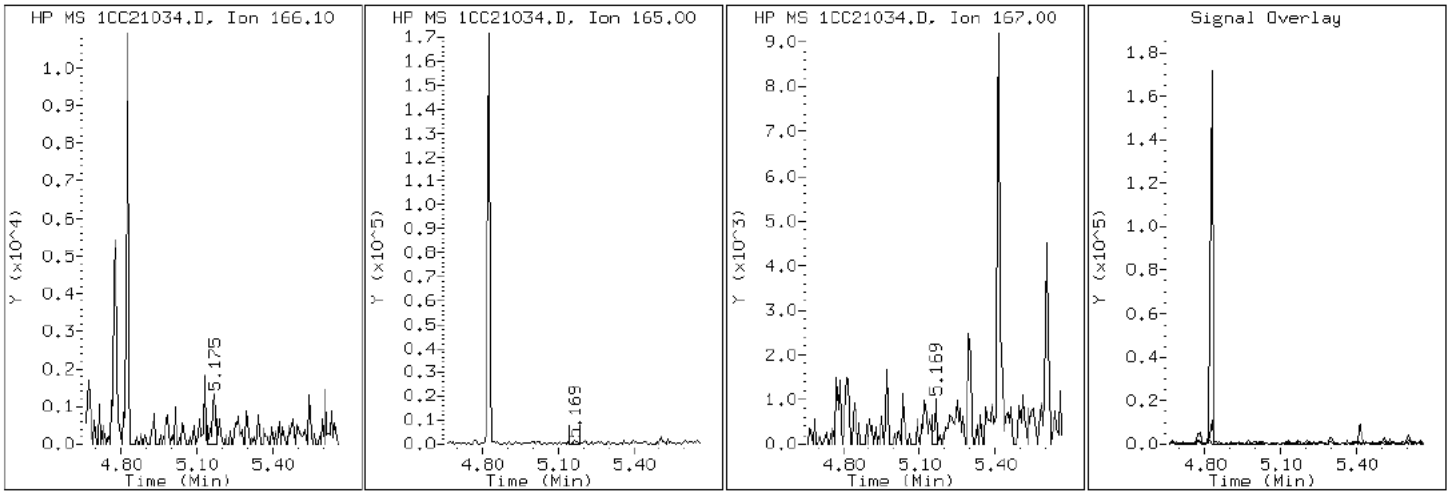
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

9 Fluorene



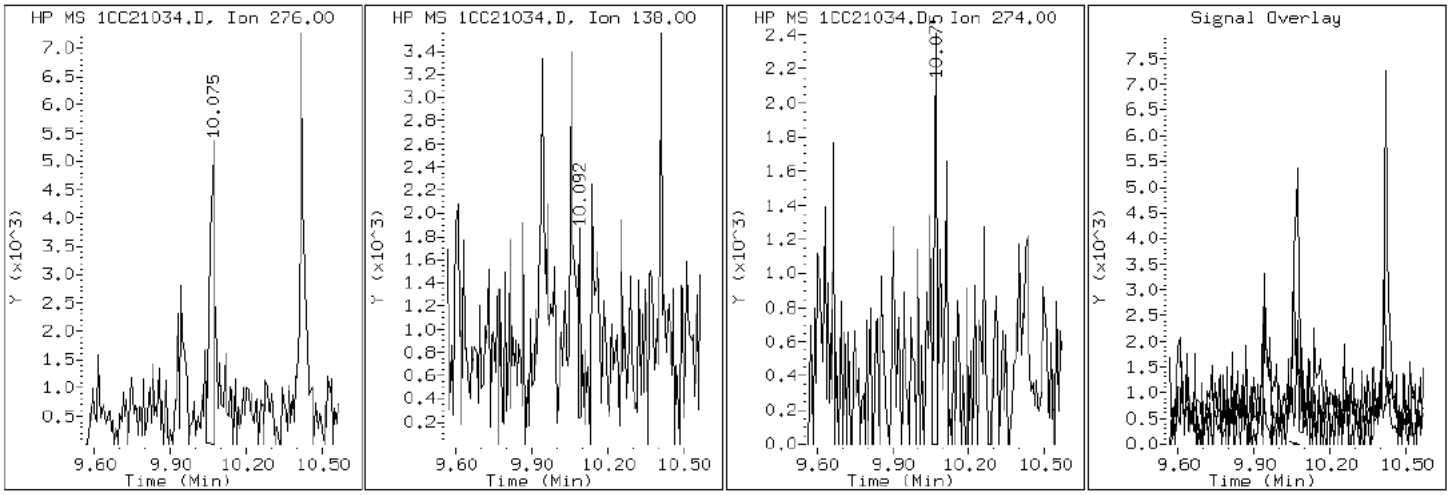
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

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



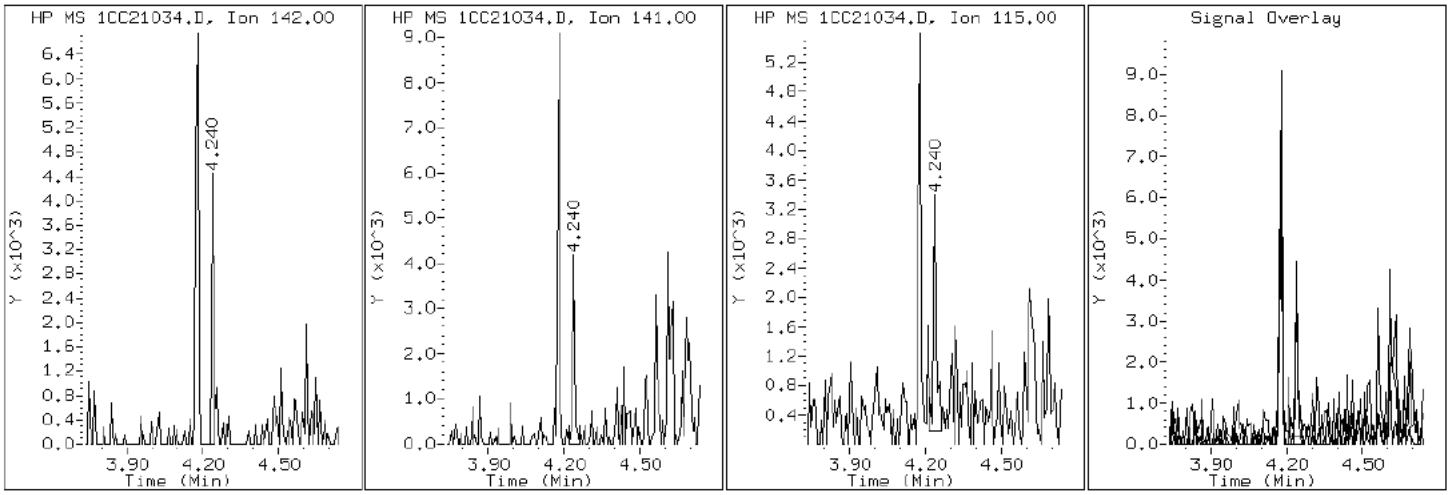
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

4 1-Methylnaphthalene



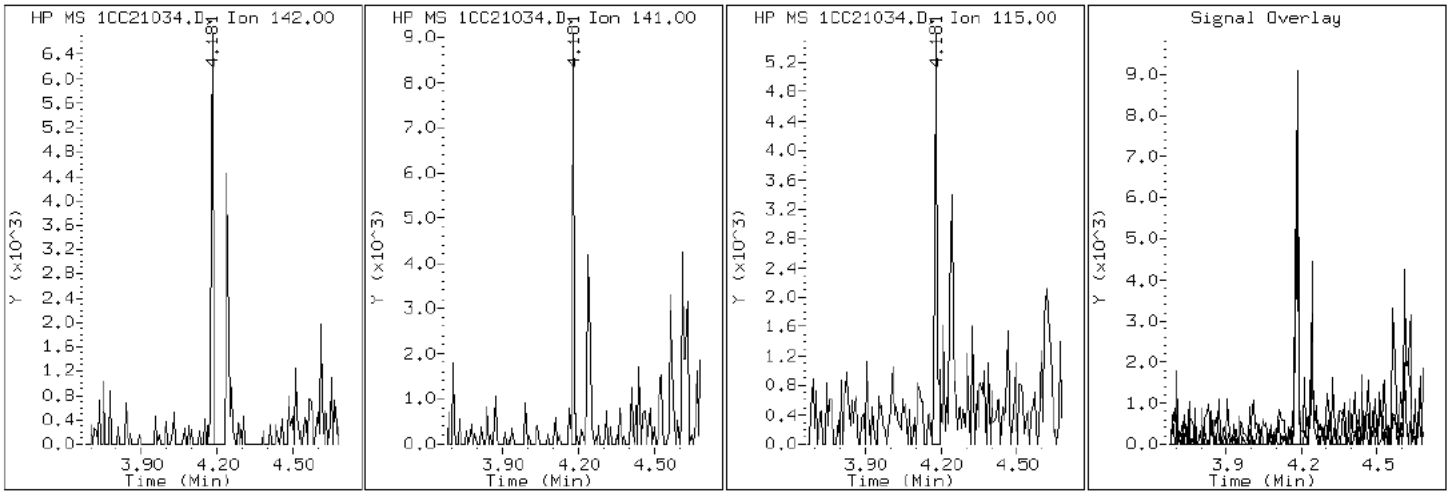
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

3 2-Methylnaphthalene



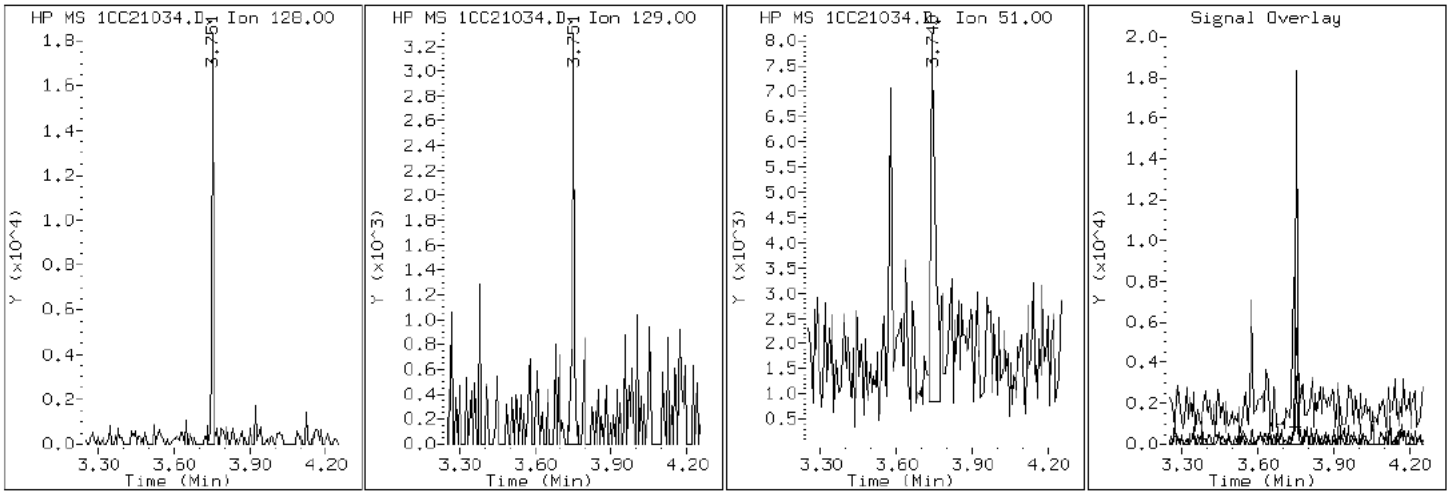
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

2 Naphthalene



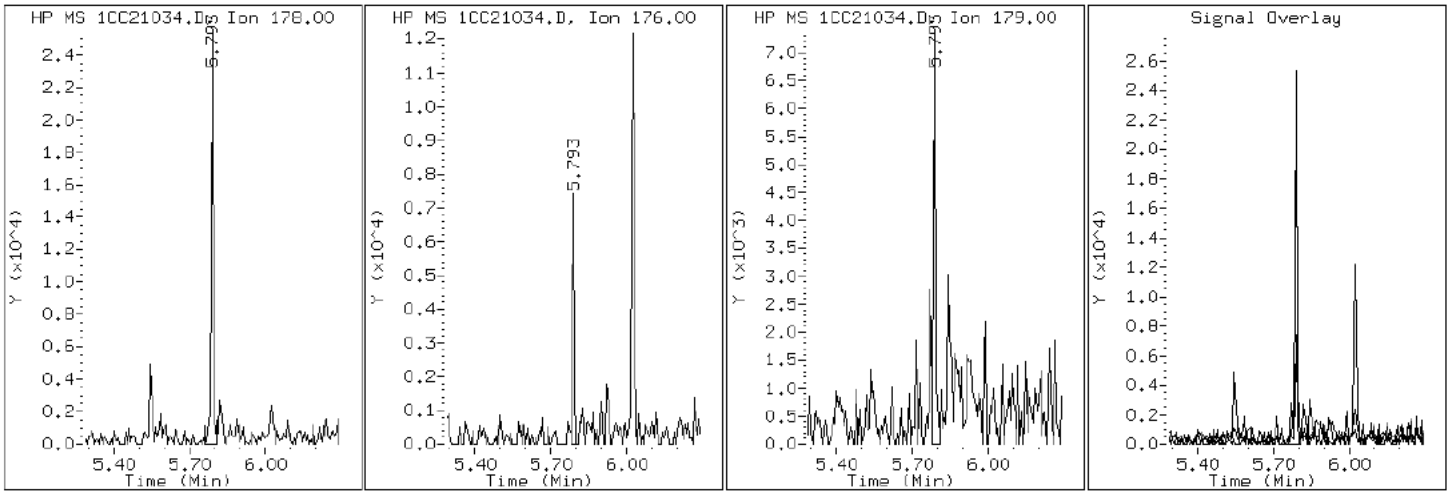
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

11 Phenanthrene



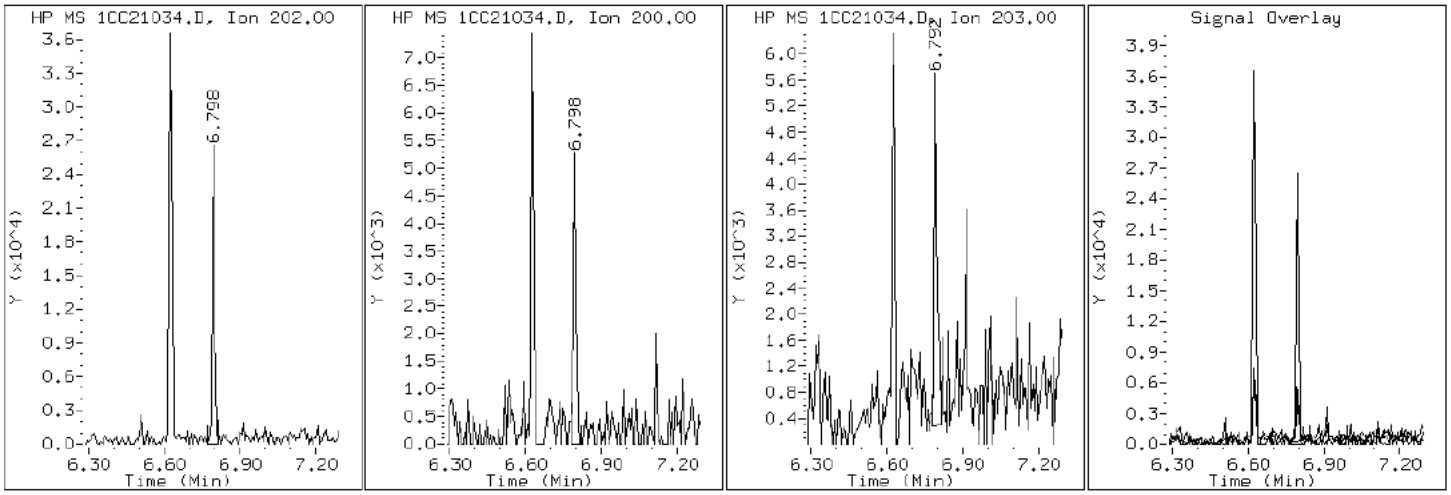
Data File: 1CC21034.D

Date: 21-MAR-2013 21:04

Client ID: FM0020B-CS Instrument: BSMC5973.i

Sample Info: 680-88298-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC21034.D
Inj. Date and Time: 21-MAR-2013 21:04
Instrument ID: BSMC5973.i
Client ID: FM0020B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

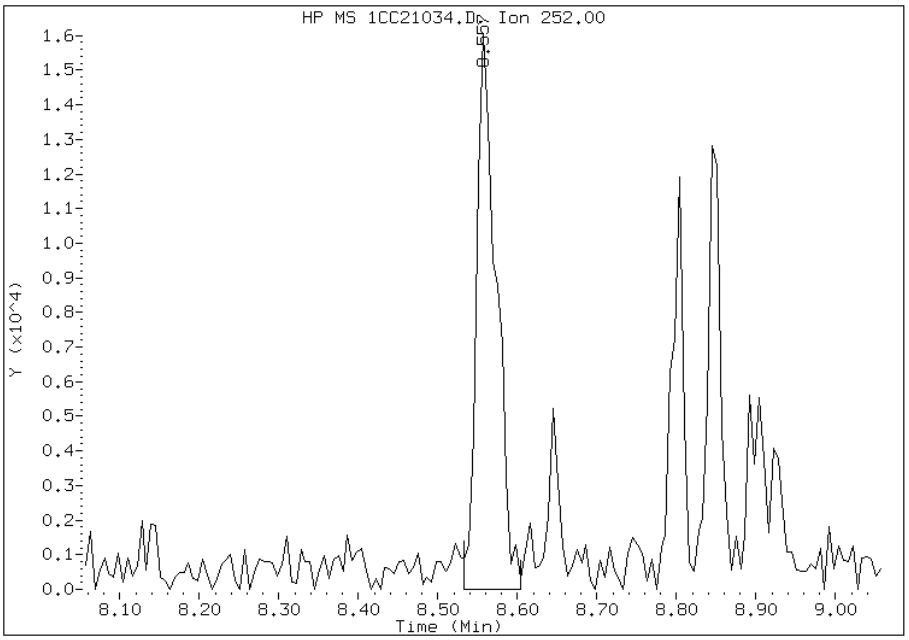
Processing Integration Results

RT: 8.56

Response: 27832

Amount: 1

Conc: 81



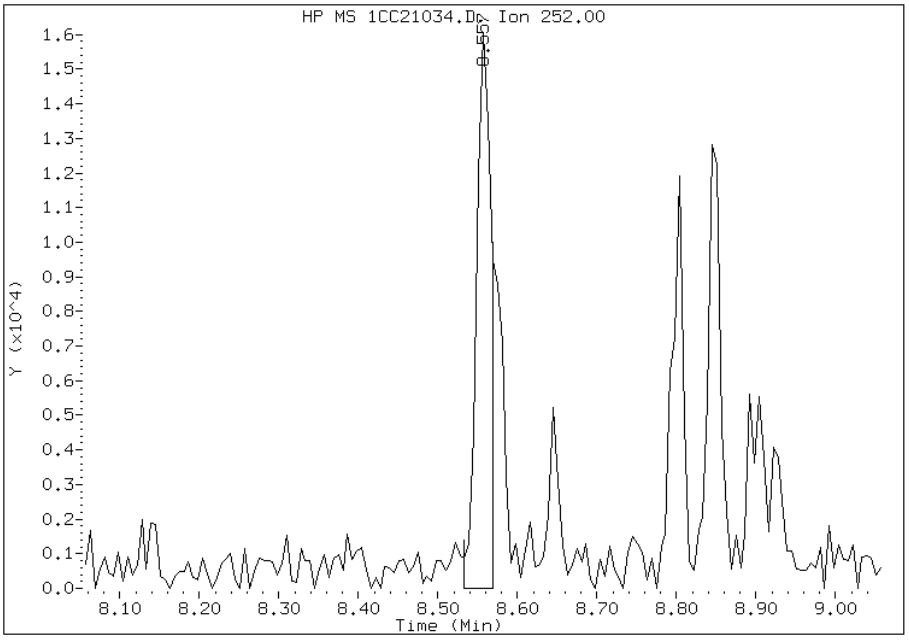
Manual Integration Results

RT: 8.56

Response: 20297

Amount: 1

Conc: 59



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21034.D
Inj. Date and Time: 21-MAR-2013 21:04
Instrument ID: BSMC5973.i
Client ID: FM0020B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/25/2013

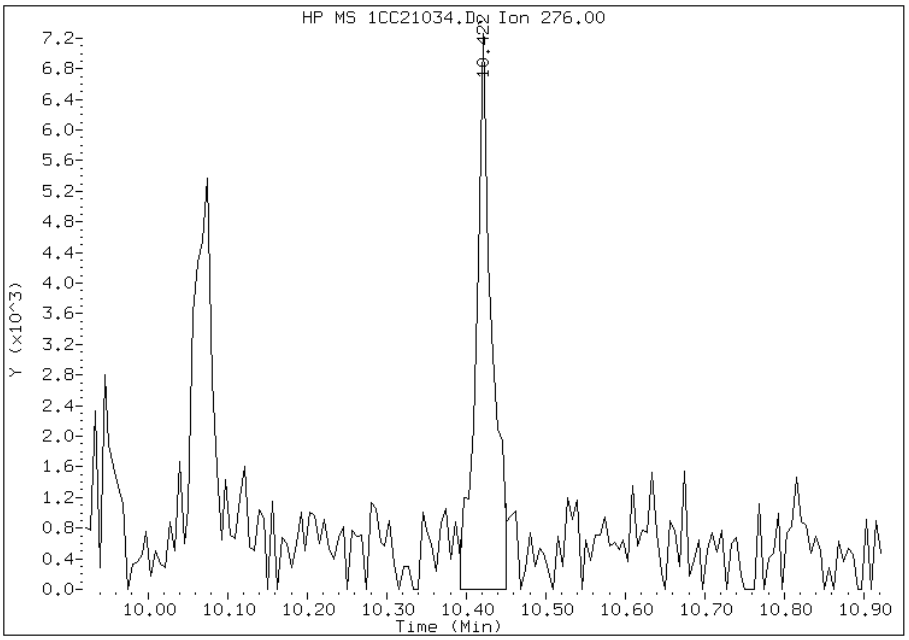
Processing Integration Results

RT: 10.42

Response: 10133

Amount: 0

Conc: 31



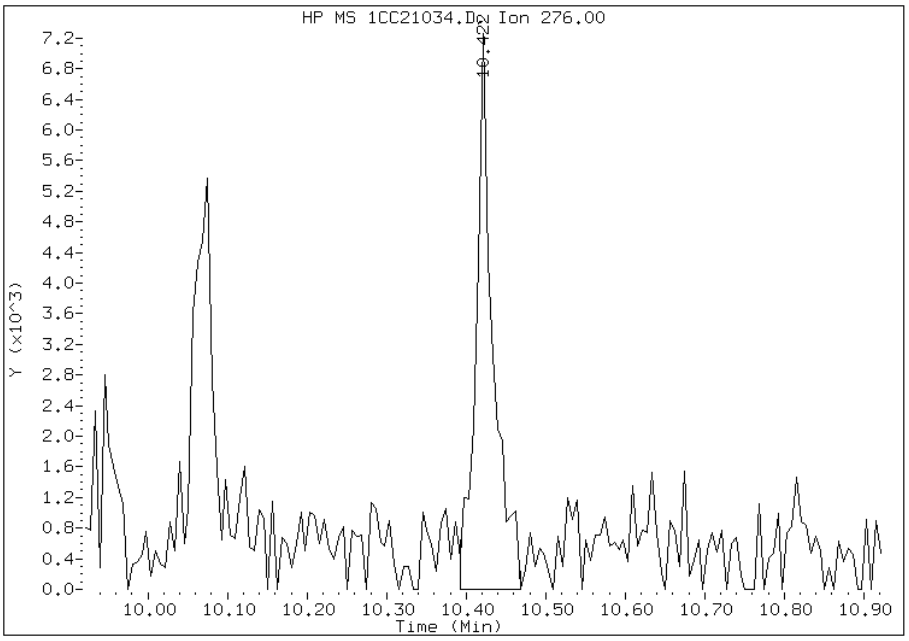
Manual Integration Results

RT: 10.42

Response: 10832

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21034.D
Inj. Date and Time: 21-MAR-2013 21:04
Instrument ID: BSMC5973.i
Client ID: FM0020B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

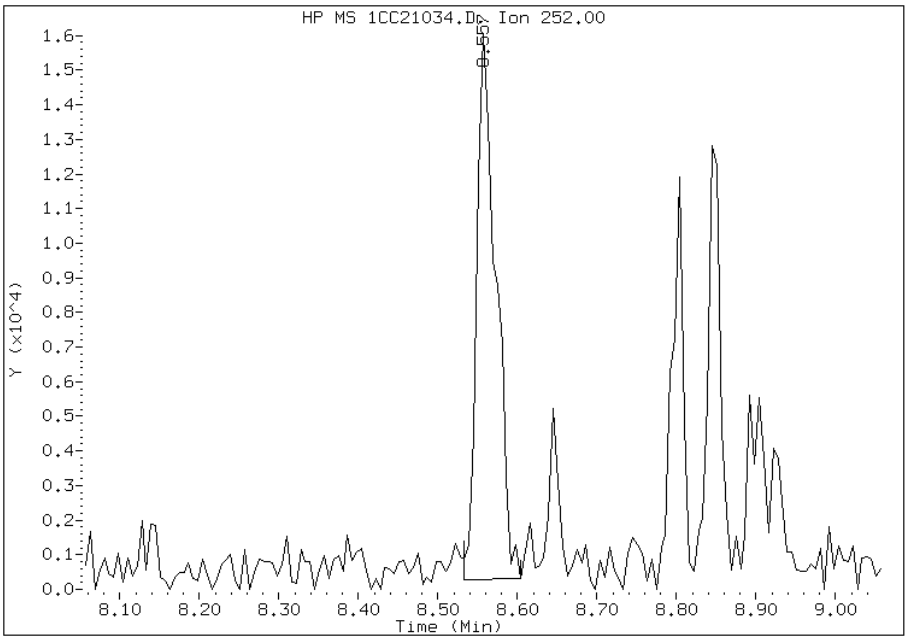
Processing Integration Results

RT: 8.56

Response: 26456

Amount: 1

Conc: 75



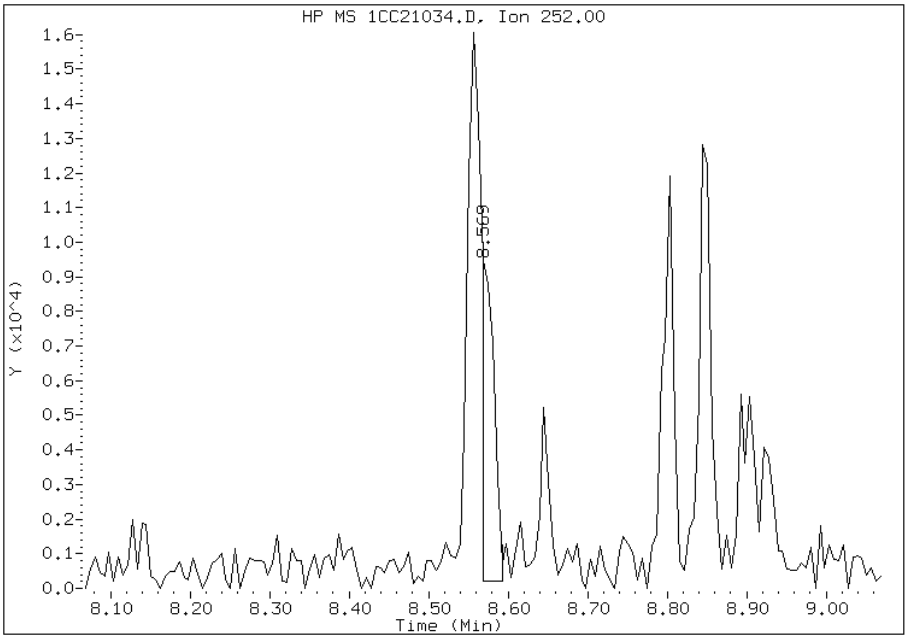
Manual Integration Results

RT: 8.57

Response: 9969

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21034.D
Inj. Date and Time: 21-MAR-2013 21:04
Instrument ID: BSMC5973.i
Client ID: FM0020B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

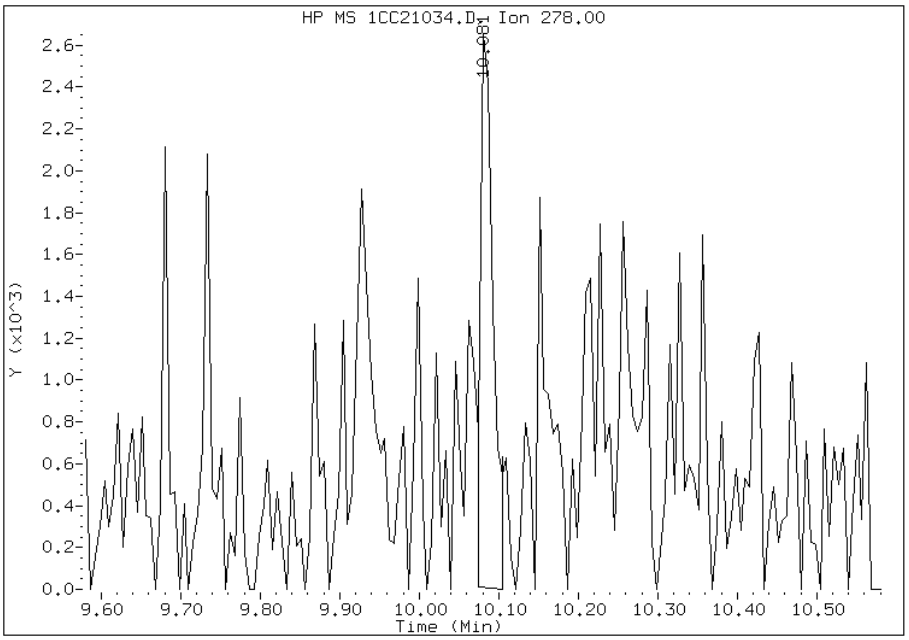
Processing Integration Results

RT: 10.08

Response: 2950

Amount: 0

Conc: 10



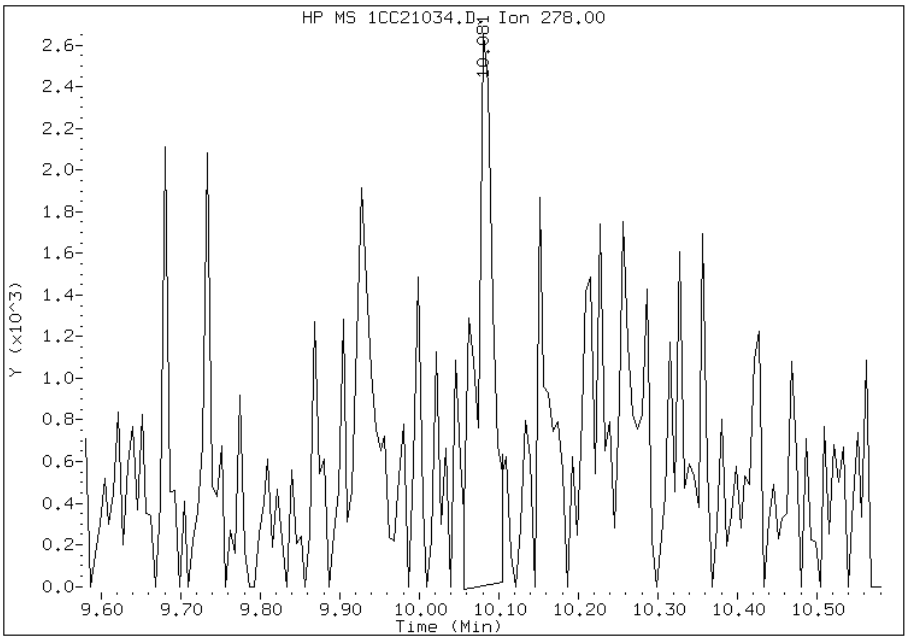
Manual Integration Results

RT: 10.08

Response: 3914

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21034.D
Inj. Date and Time: 21-MAR-2013 21:04
Instrument ID: BSMC5973.i
Client ID: FM0020B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

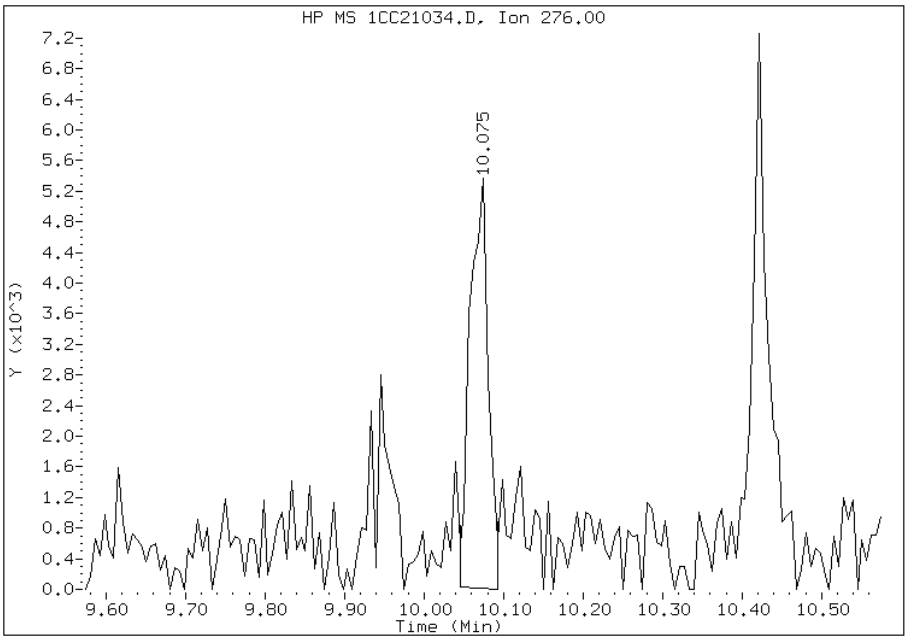
Processing Integration Results

RT: 10.07

Response: 8549

Amount: 0

Conc: 27



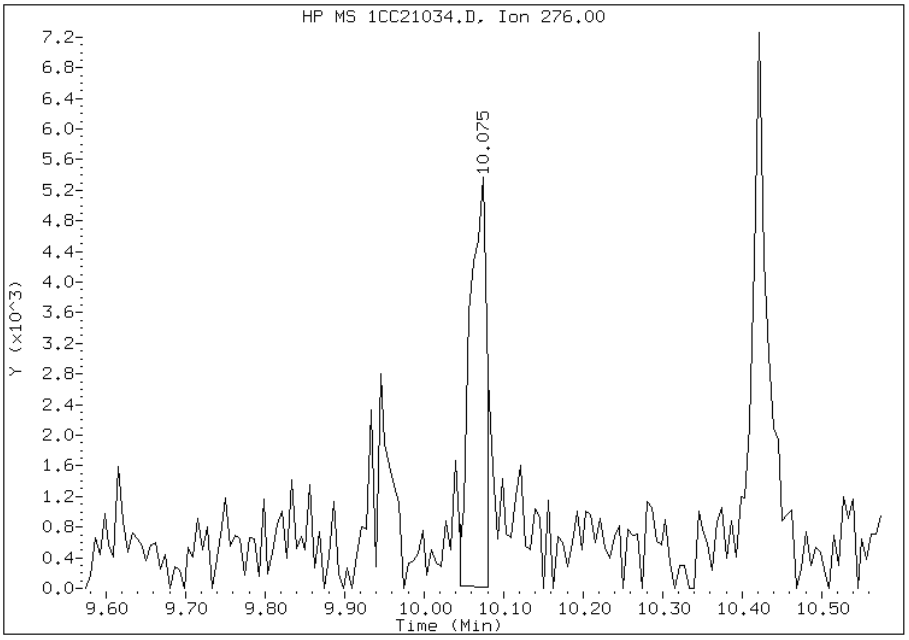
Manual Integration Results

RT: 10.07

Response: 7767

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: FM0020B-CSD | Lab Sample ID: 680-88298-20

Matrix: Solid | Lab File ID: 1CC21035.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 09:30

Extract. Method: 3546 | Date Extracted: 03/20/2013 08:31

Sample wt/vol: 15.37(g) | Date Analyzed: 03/21/2013 21:22

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

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

% Moisture: 32.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	58	U	58	7.2
120-12-7	Anthracene	13		12	6.1
56-55-3	Benzo[a]anthracene	64		12	5.7
50-32-8	Benzo[a]pyrene	61		15	7.5
205-99-2	Benzo[b]fluoranthene	130		18	8.8
191-24-2	Benzo[g,h,i]perylene	36		29	6.4
207-08-9	Benzo[k]fluoranthene	27		12	5.2
218-01-9	Chrysene	76		13	6.5
53-70-3	Dibenz(a,h)anthracene	20	J	29	5.9
206-44-0	Fluoranthene	100		29	5.8
86-73-7	Fluorene	8.3	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	33		29	10
90-12-0	1-Methylnaphthalene	22	J	58	6.4
91-57-6	2-Methylnaphthalene	29	J	58	10
91-20-3	Naphthalene	33	J	58	6.4
85-01-8	Phenanthrene	54		12	5.7
129-00-0	Pyrene	93		29	5.4

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\1C032113.b\1CC21035.D
Lab Smp Id: 680-88298-A-20-A Client Smp ID: FM0020B-CSD
Inj Date : 21-MAR-2013 21:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-20-a
Misc Info : 680-88298-A-20-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	32.668	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.739	3.739	(1.000)	970949	40.0000	
*	6 Acenaphthene-d10	164	4.827	4.827	(1.000)	773659	40.0000	
*	10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1371270	40.0000	
$	14 o-Terphenyl	230	6.027	6.027	(1.044)	151619	7.32323	707.6305
*	18 Chrysene-d12	240	7.715	7.715	(1.000)	1483310	40.0000	
*	23 Perylene-d12	264	8.903	8.898	(1.000)	1382648	40.0000	
	2 Naphthalene	128	3.751	3.751	(1.003)	8564	0.33880	32.7376(Q)
	3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	5131	0.30431	29.4047
	4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	3497	0.22772	22.0042
	9 Fluorene	166	5.163	5.162	(1.069)	2107	0.08593	8.3036
	11 Phenanthrene	178	5.792	5.792	(1.003)	22216	0.56029	54.1395
	12 Anthracene	178	5.821	5.821	(1.008)	5314	0.13703	13.2414
	13 Carbazole	167	5.933	5.933	(1.028)	4448	0.12903	12.4683
	15 Fluoranthene	202	6.627	6.627	(1.148)	46587	1.07287	103.6696

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.798	6.792	(0.881)	38408	0.96353	93.1040
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	28511	0.66597	64.3515
19 Chrysene	228	7.733	7.733	(1.002)	33714	0.78691	76.0380
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.961)	47680	1.31954	127.5050(M)
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.963)	10442	0.28170	27.2203(QM)
22 Benzo(a)pyrene	252	8.851	8.845	(0.994)	22248	0.63389	61.2514
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.131)	11227	0.34004	32.8571(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.133)	6690	0.20715	20.0166(M)
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	12712	0.36805	35.5642

QC Flag Legend

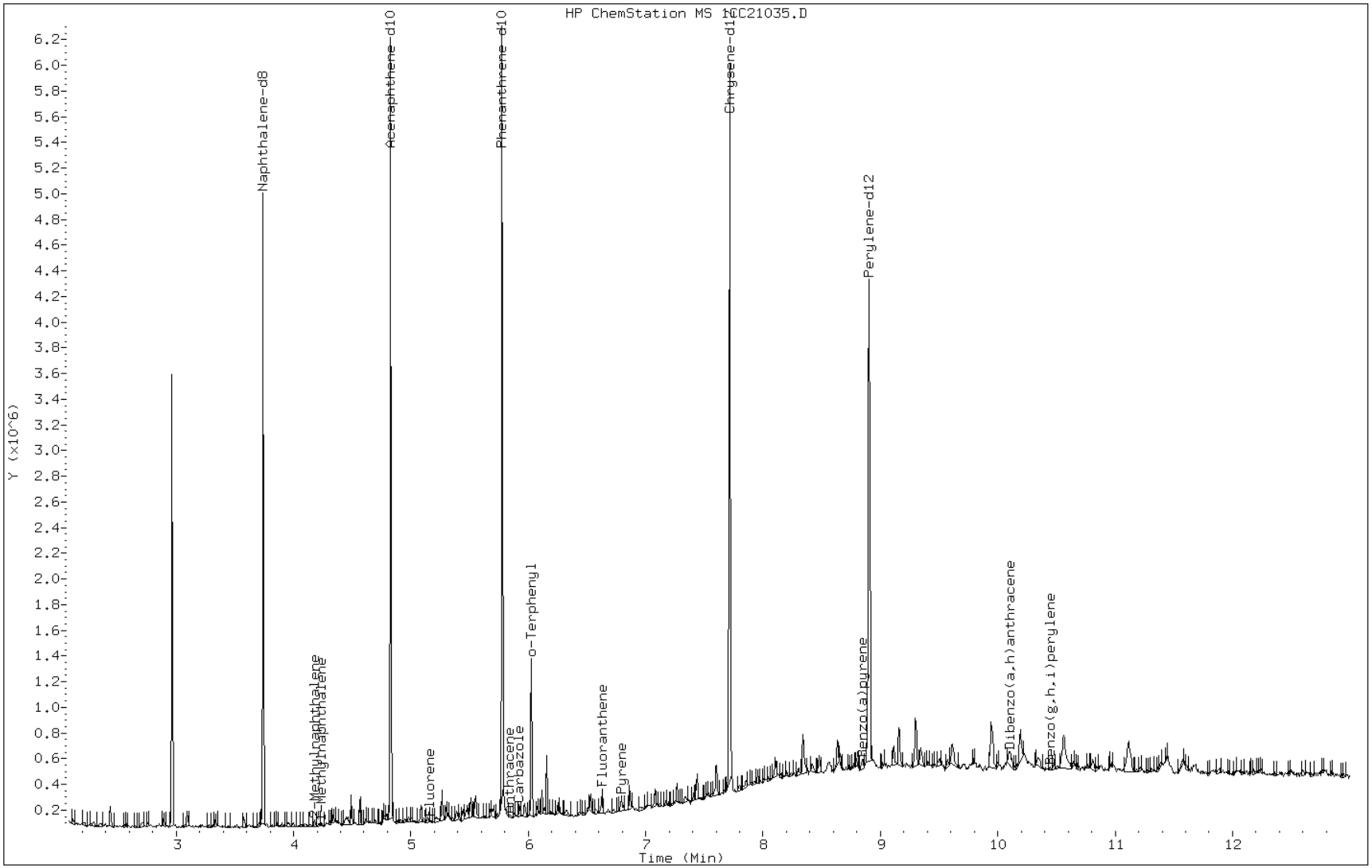
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC



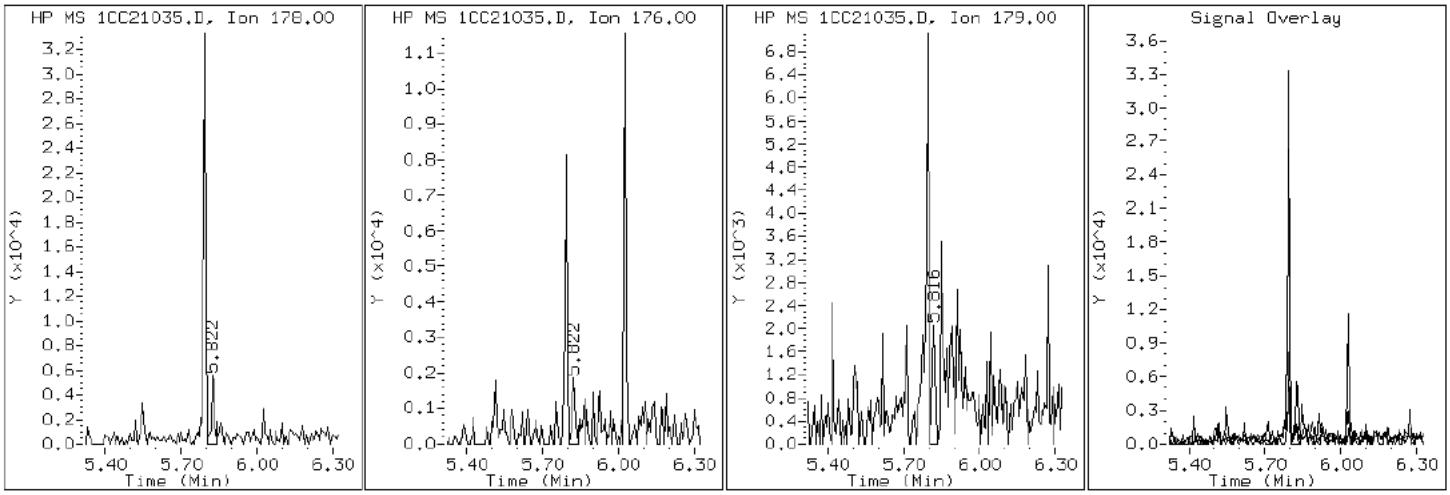
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

12 Anthracene



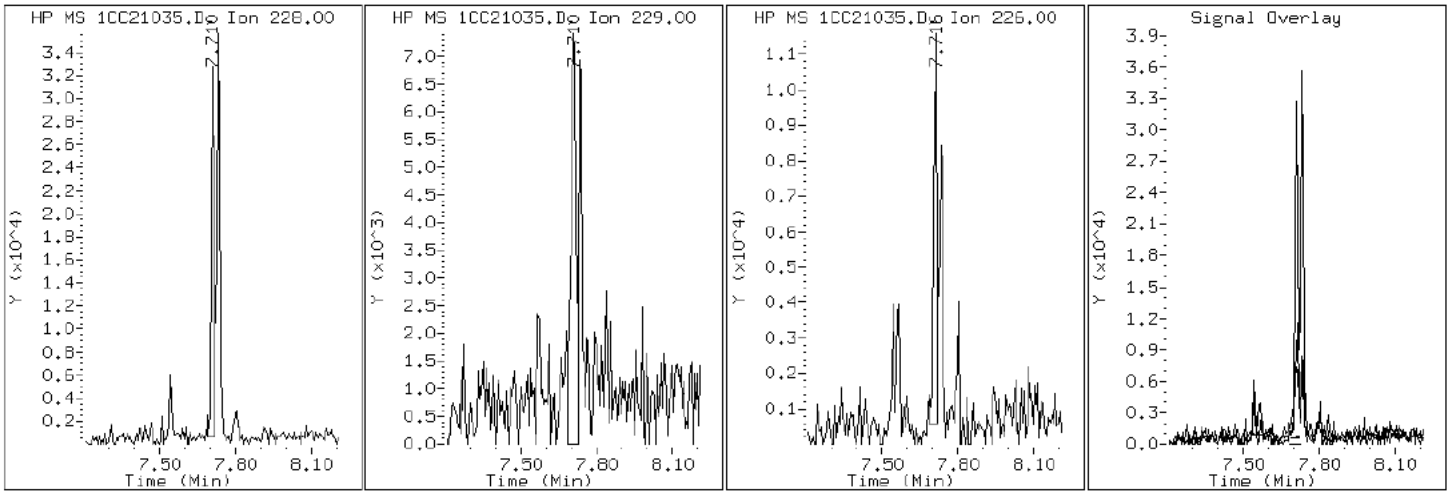
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

17 Benzo(a)anthracene



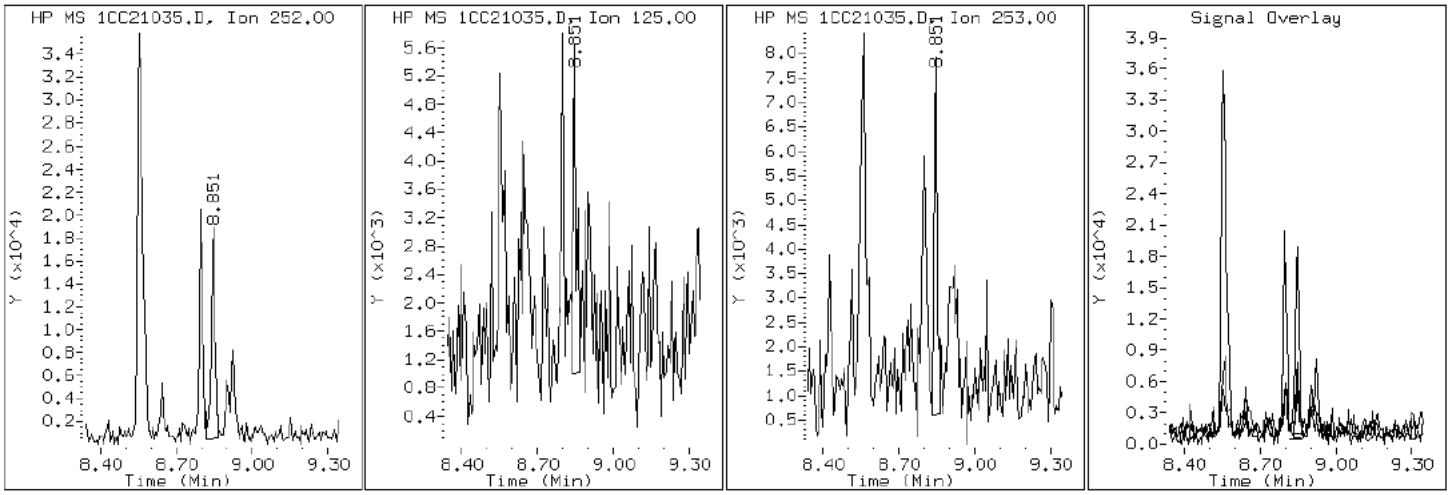
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

22 Benzo(a)pyrene



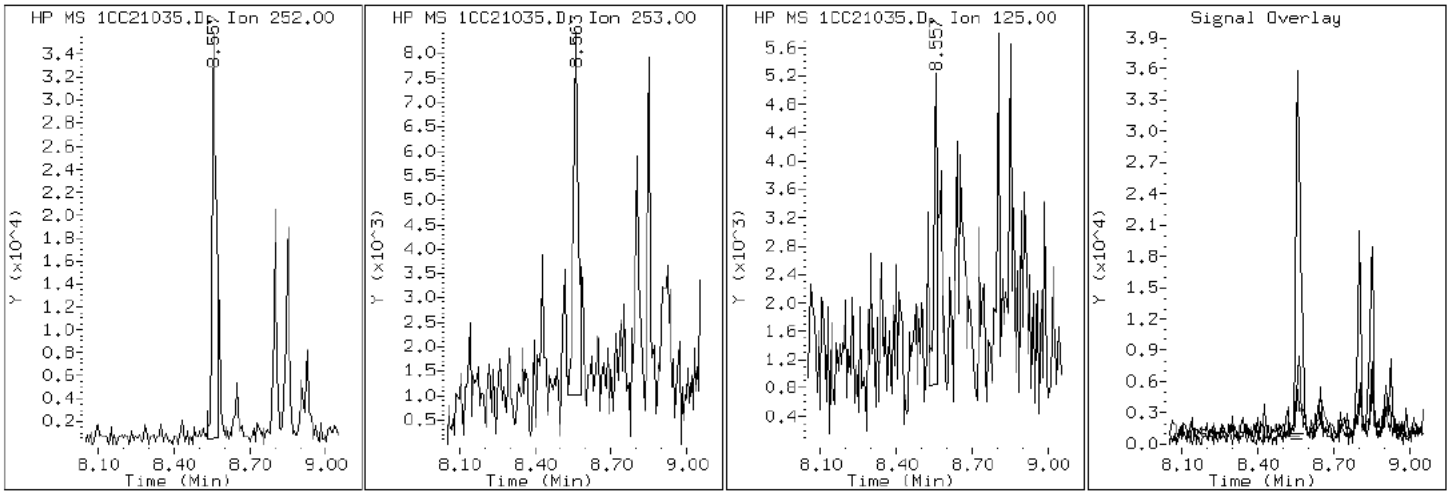
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



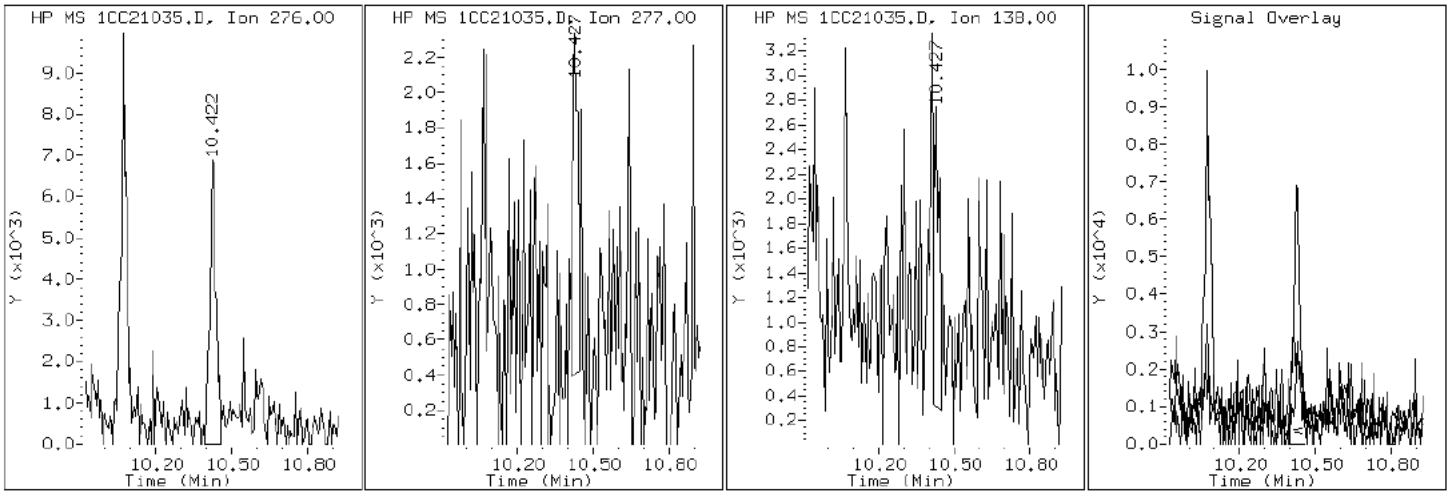
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



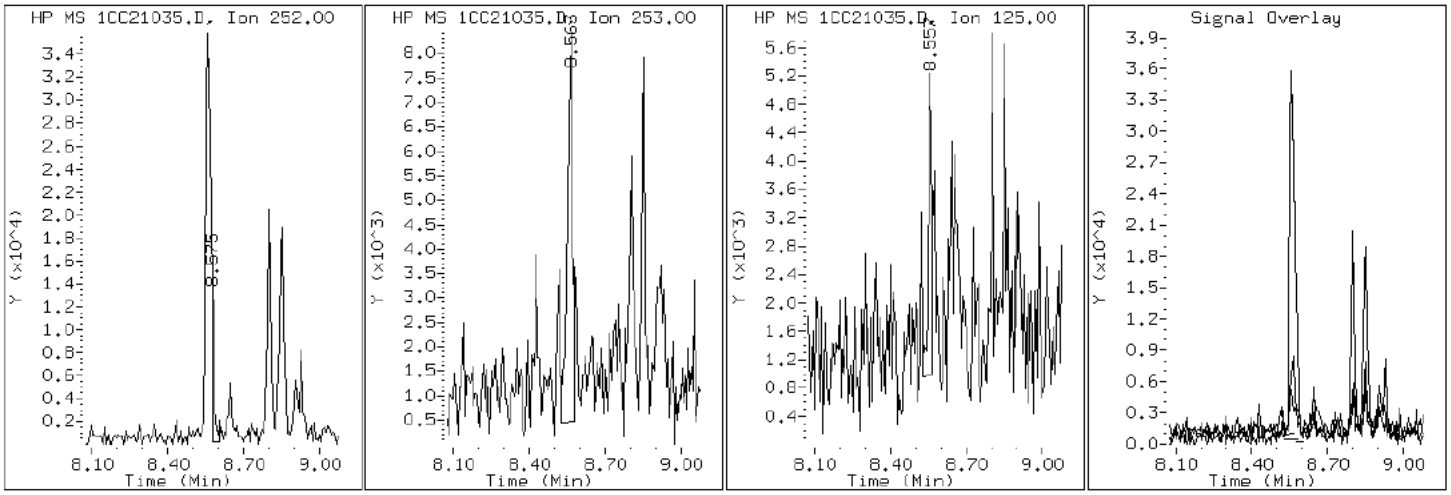
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



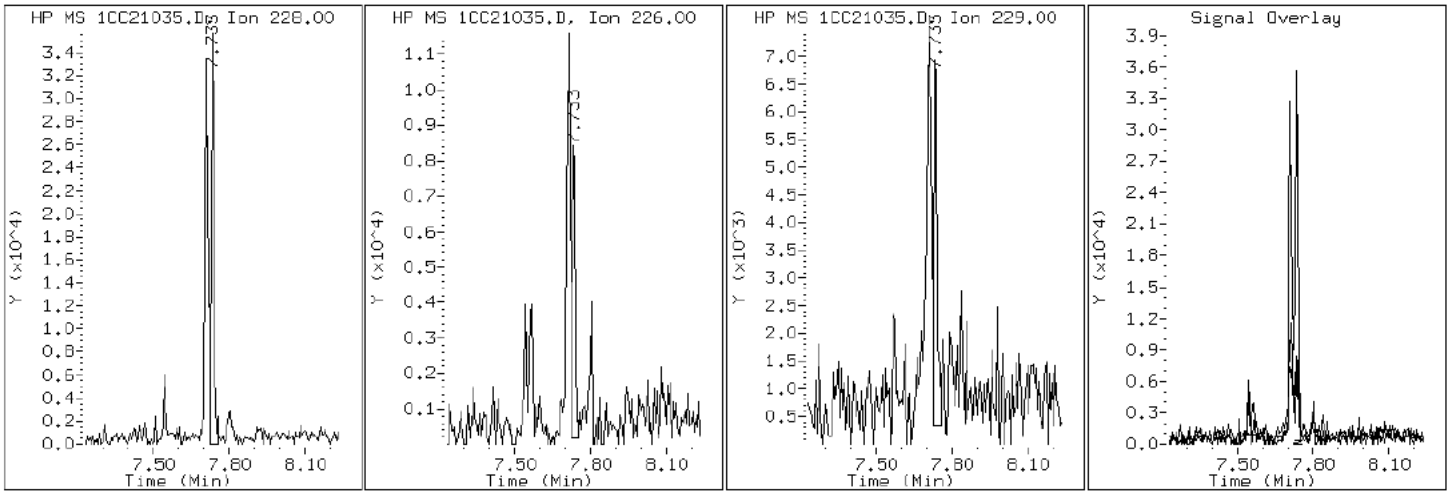
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

19 Chrysene



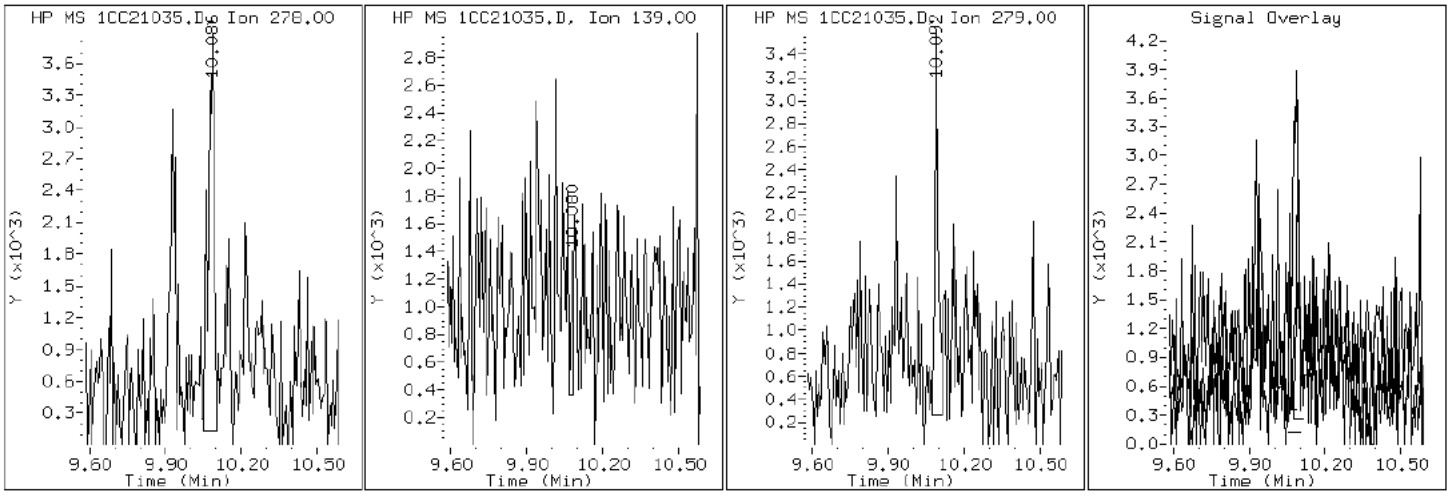
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



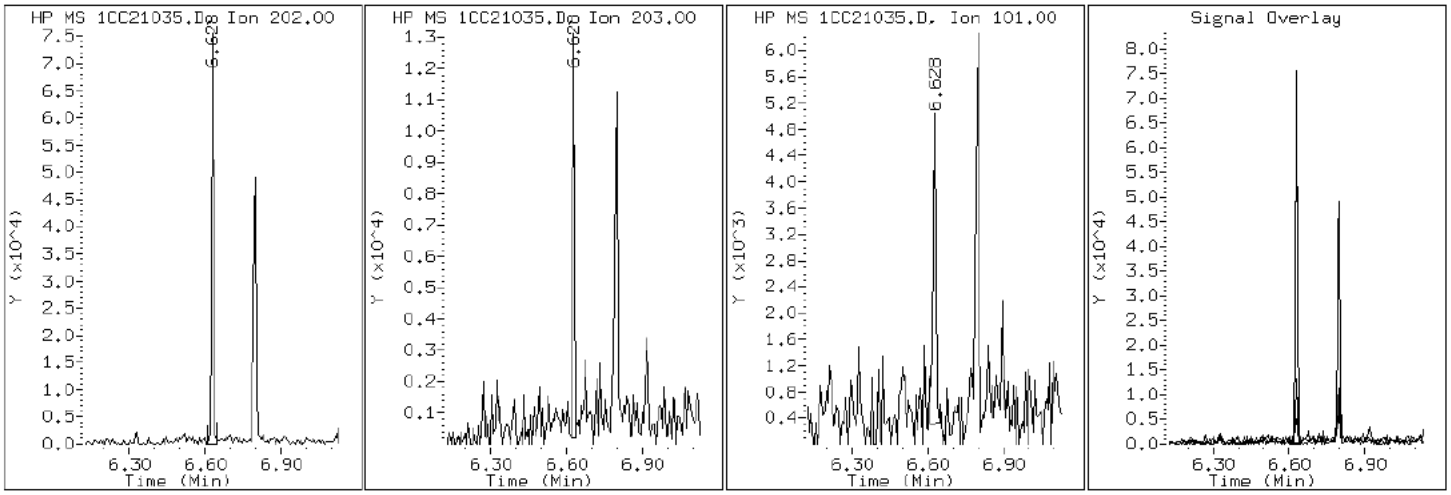
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

15 Fluoranthene



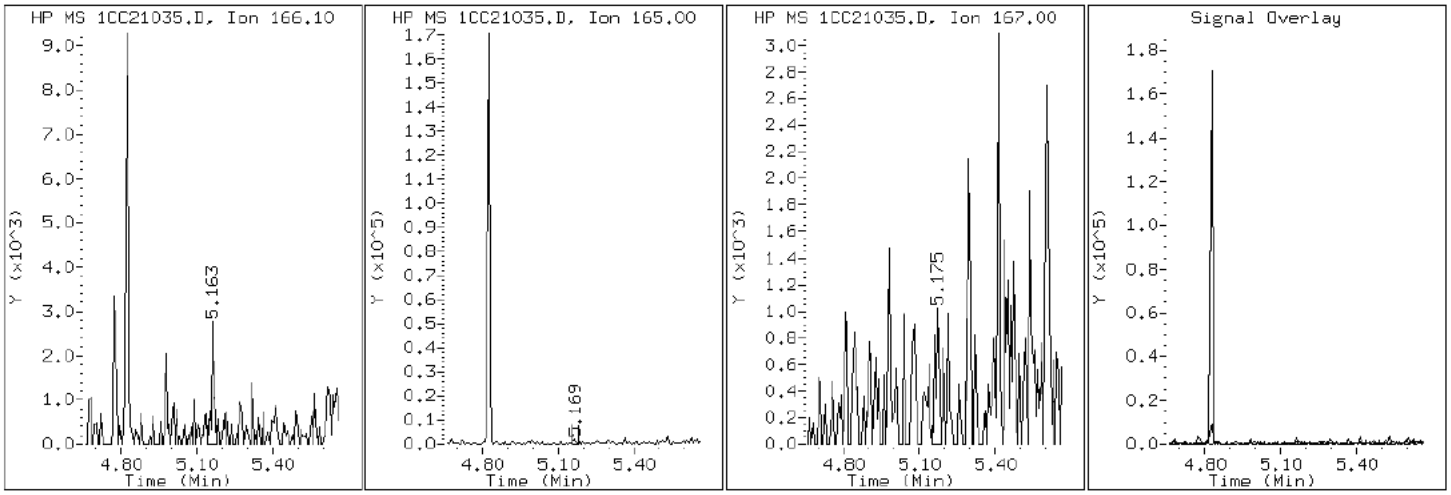
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

9 Fluorene



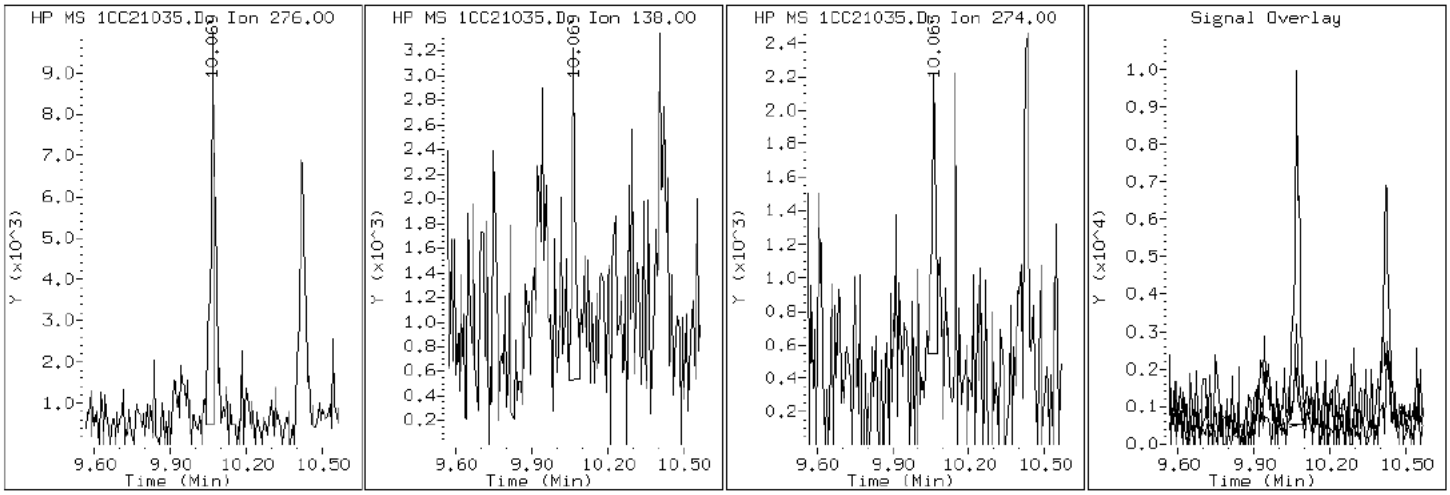
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

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



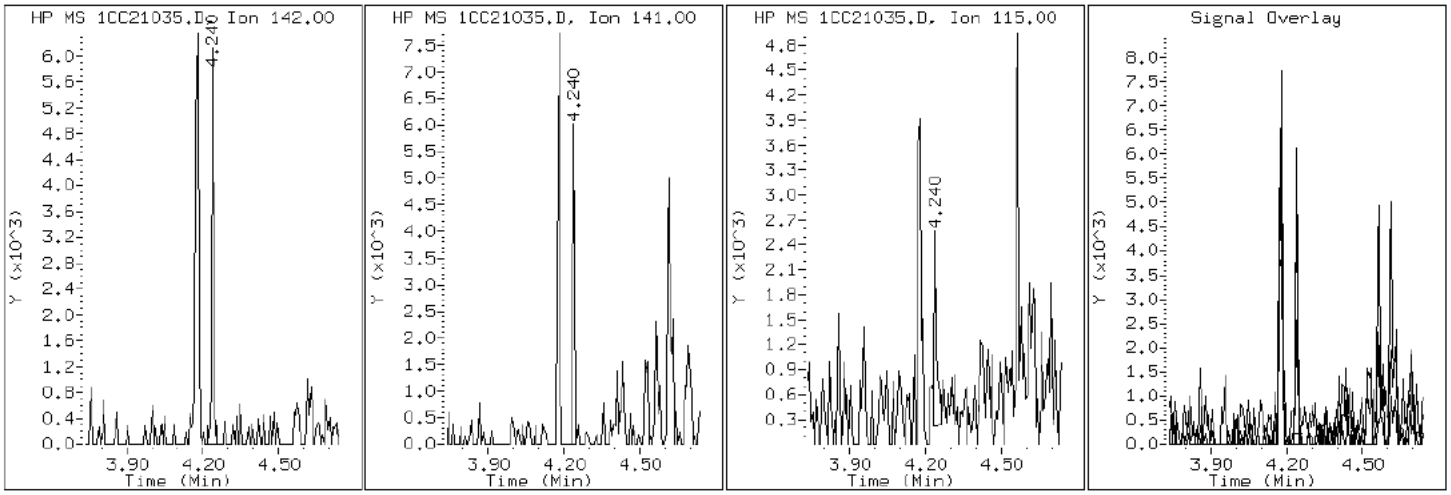
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

4 1-Methylnaphthalene



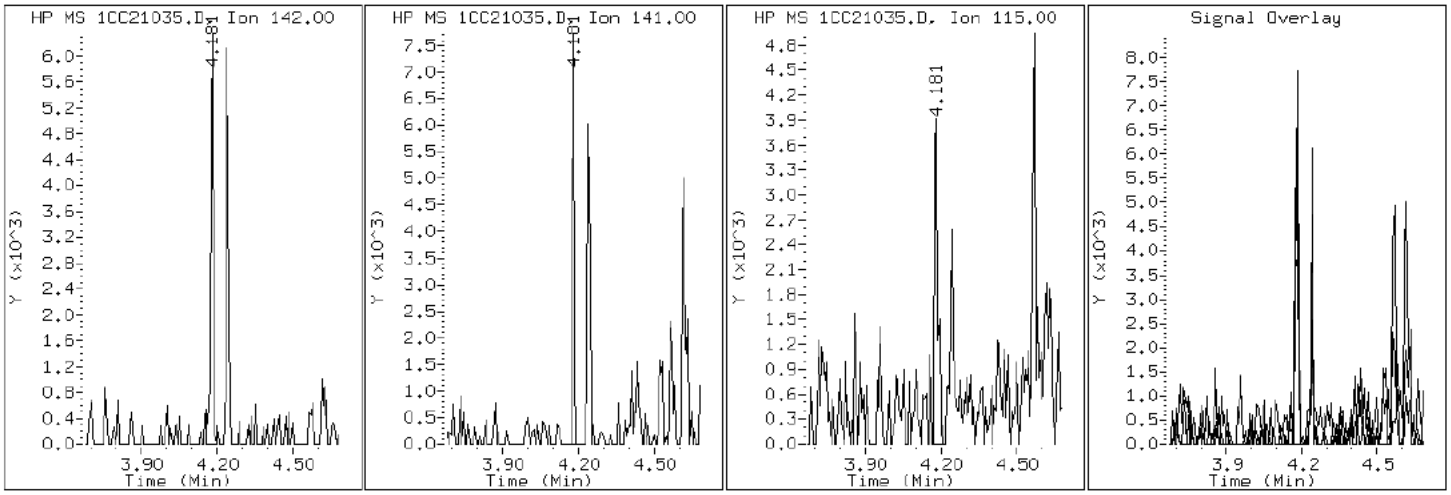
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

3 2-Methylnaphthalene



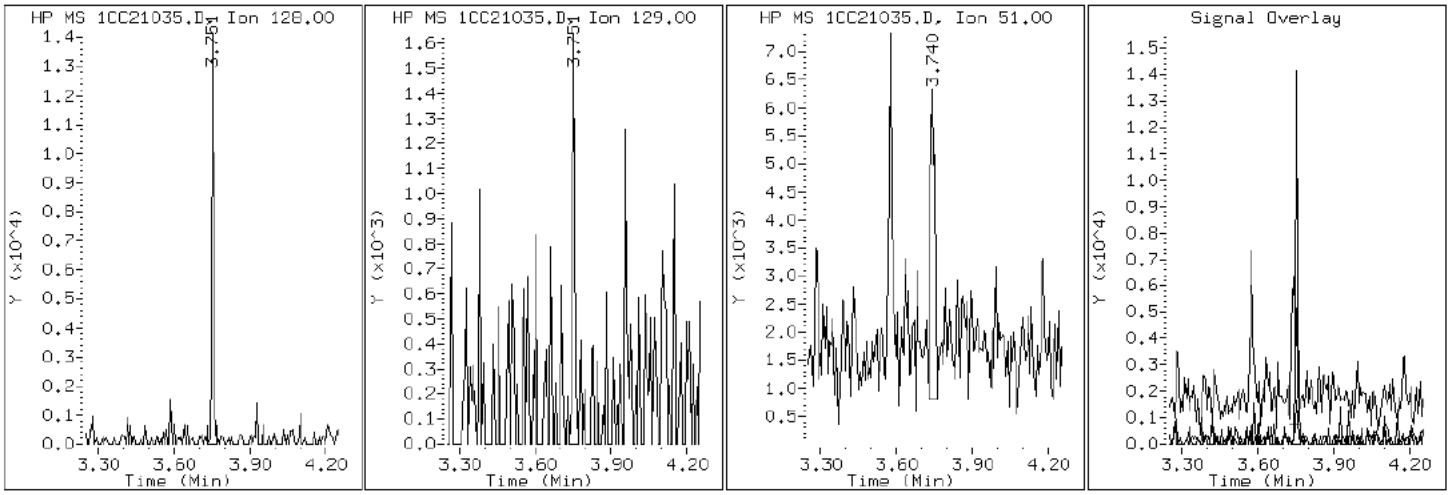
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

2 Naphthalene



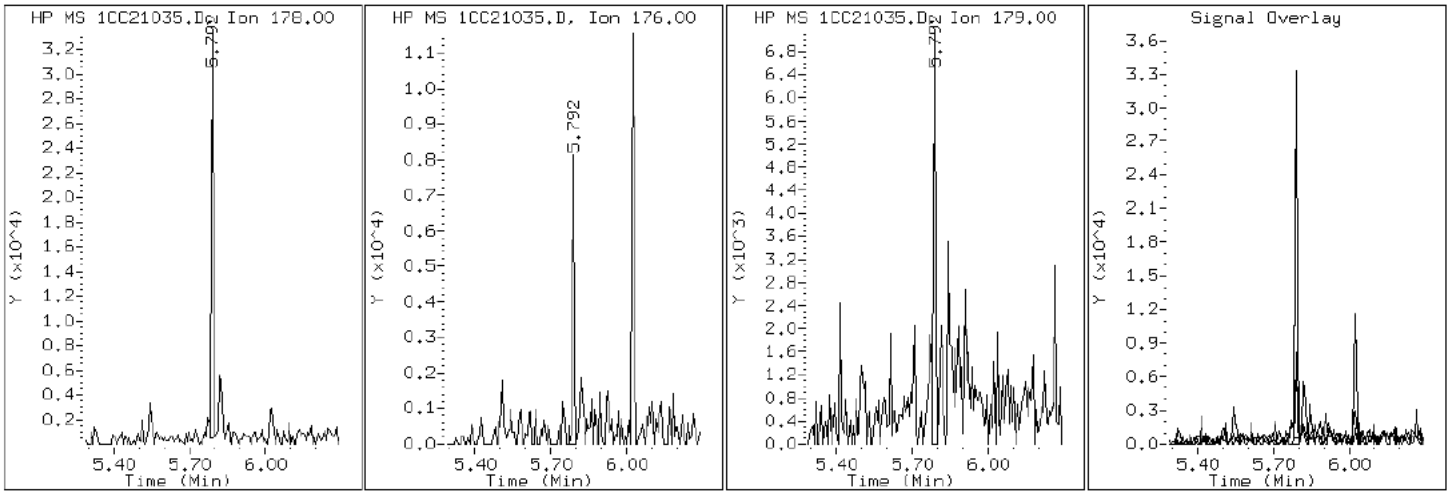
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

11 Phenanthrene



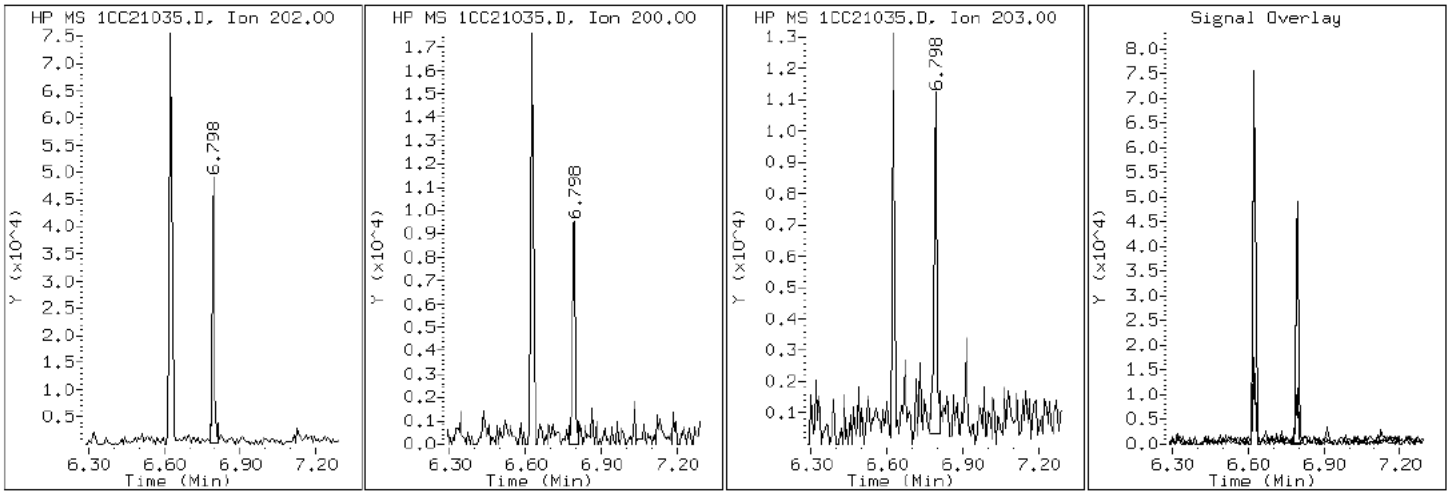
Data File: 1CC21035.D

Date: 21-MAR-2013 21:22

Client ID: FM0020B-CSD Instrument: BSMC5973.i

Sample Info: 680-88298-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC21035.D
Inj. Date and Time: 21-MAR-2013 21:22
Instrument ID: BSMC5973.i
Client ID: FM0020B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

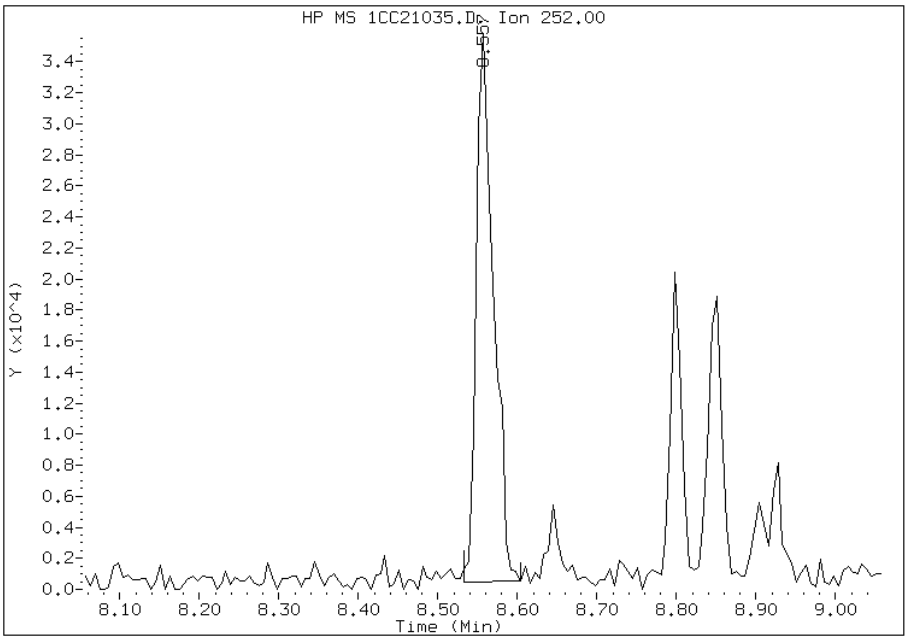
Processing Integration Results

RT: 8.56

Response: 53000

Amount: 1

Conc: 142



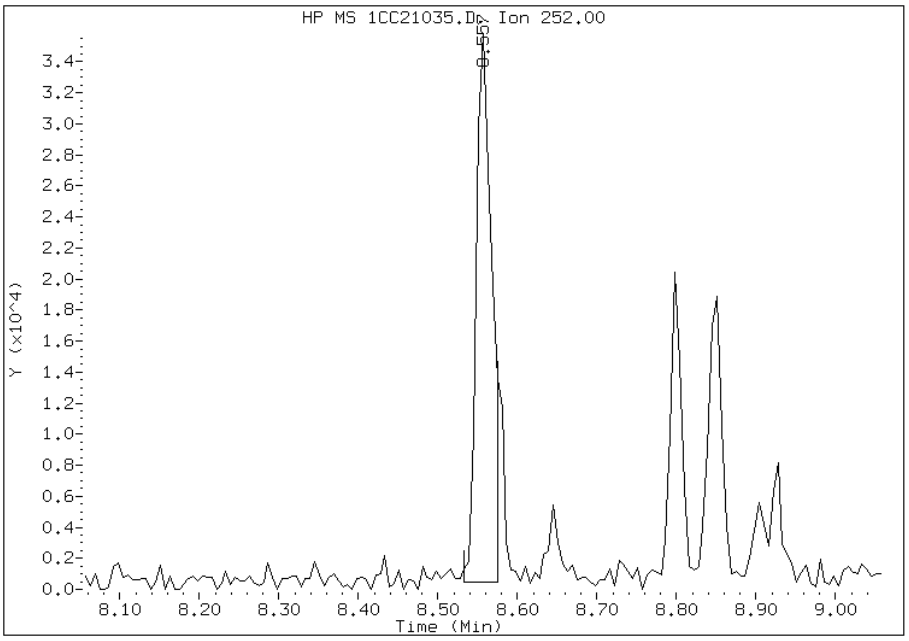
Manual Integration Results

RT: 8.56

Response: 47680

Amount: 1

Conc: 128



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21035.D
Inj. Date and Time: 21-MAR-2013 21:22
Instrument ID: BSMC5973.i
Client ID: FM0020B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

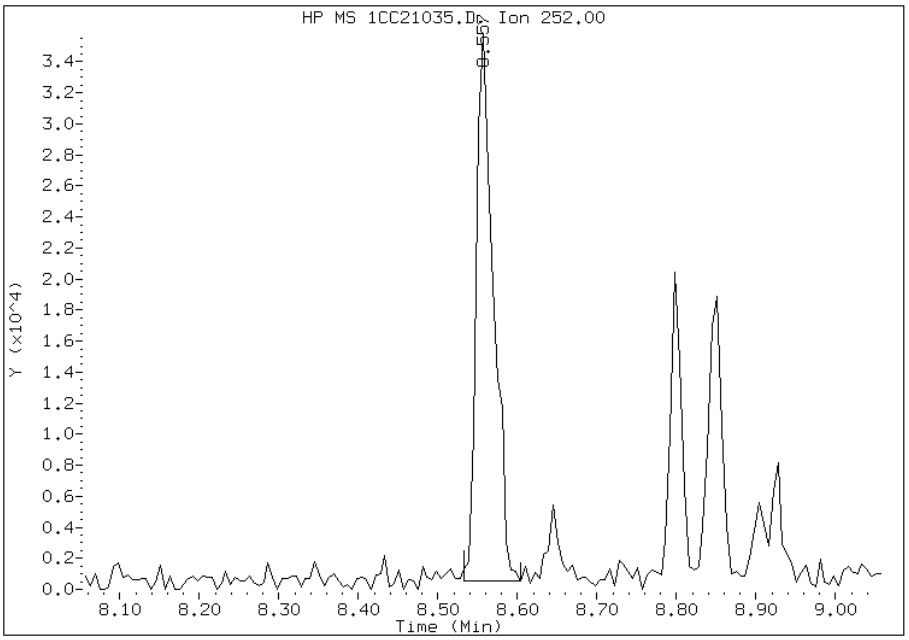
Processing Integration Results

RT: 8.56

Response: 52837

Amount: 1

Conc: 138



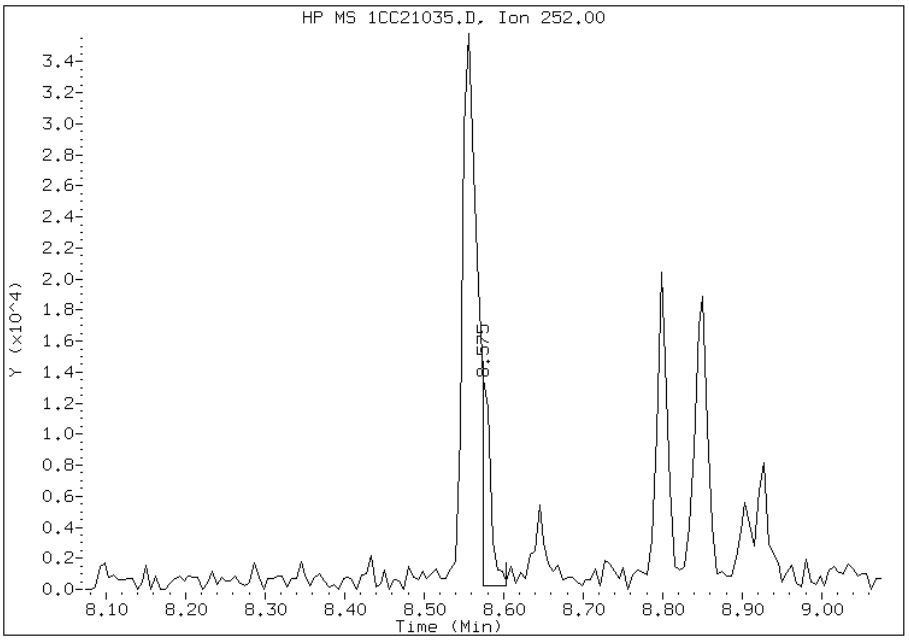
Manual Integration Results

RT: 8.57

Response: 10442

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21035.D
Inj. Date and Time: 21-MAR-2013 21:22
Instrument ID: BSMC5973.i
Client ID: FM0020B-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

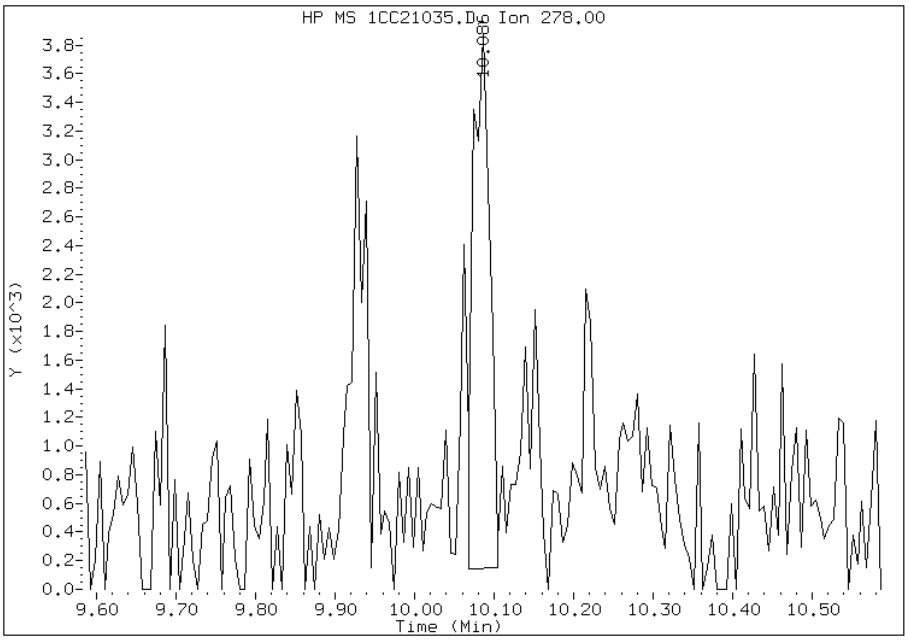
Processing Integration Results

RT: 10.09

Response: 5427

Amount: 0

Conc: 16



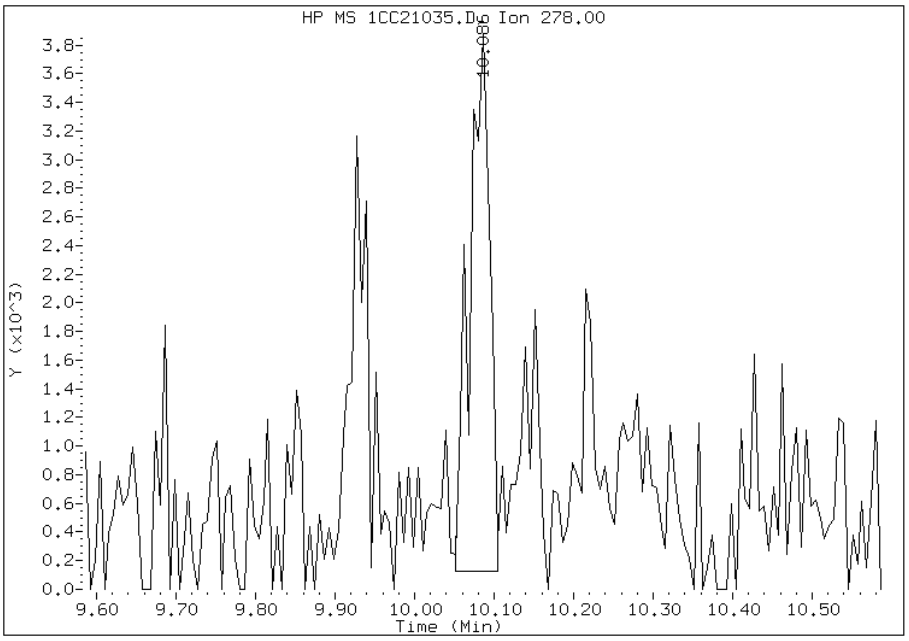
Manual Integration Results

RT: 10.09

Response: 6690

Amount: 0

Conc: 20



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21035.D
Inj. Date and Time: 21-MAR-2013 21:22
Instrument ID: BSMC5973.i
Client ID: FM0020B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

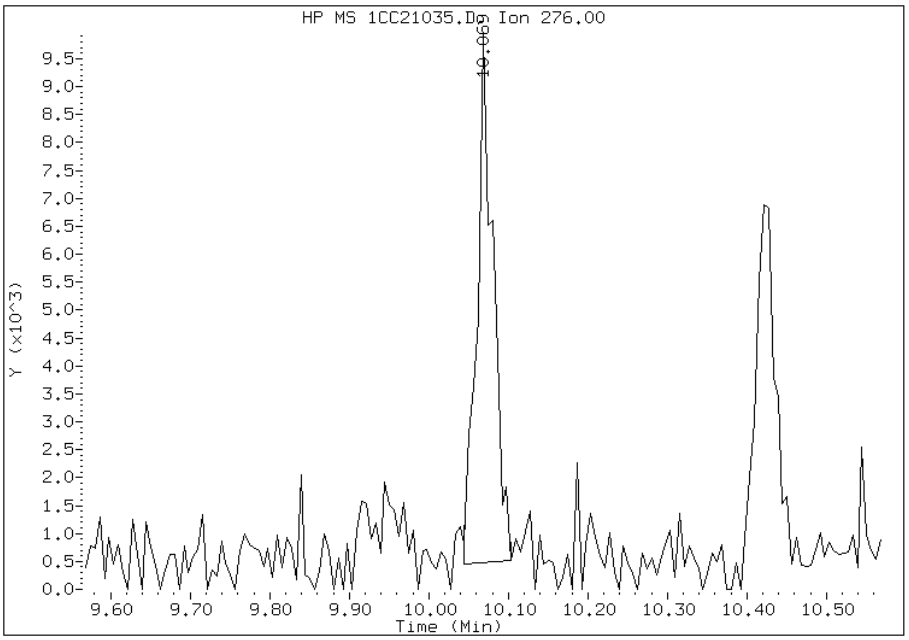
Processing Integration Results

RT: 10.07

Response: 13345

Amount: 0

Conc: 39



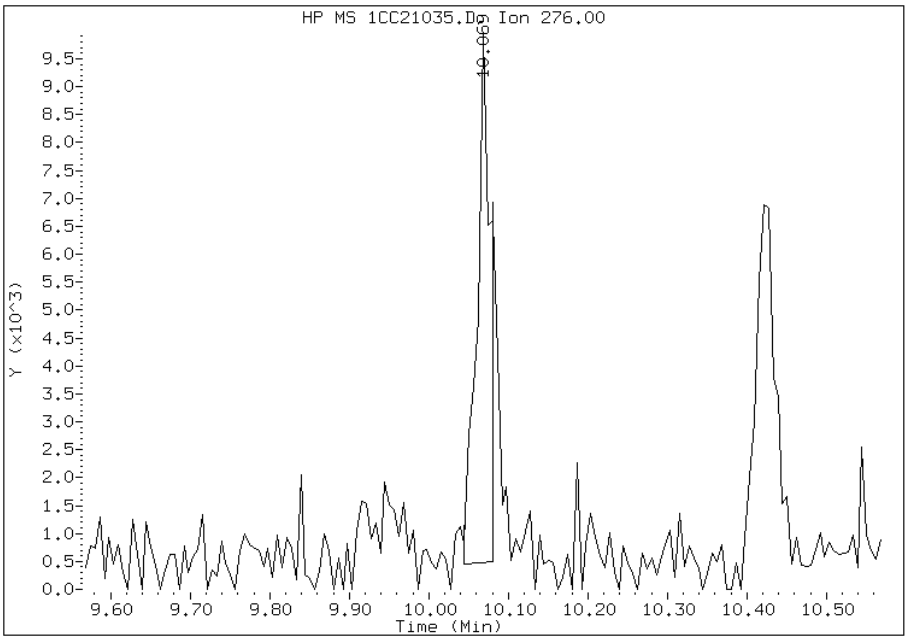
Manual Integration Results

RT: 10.07

Response: 11227

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:26
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1 Analy Batch No.: 134776

SDG No.: 68088298-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.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	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		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 CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88298-1 Analy Batch No.: 134776

SDG No.: 68088298-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		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.: 680-88298-1 Analy Batch No.: 134776

SDG No.: 68088298-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.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	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	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.: 680-88298-1 Analy Batch No.: 134776

SDG No.: 68088298-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

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[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
	4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
	5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
	7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
	9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
	11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
	12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
	13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
	15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
	16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
	19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
	20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
	24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
	25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

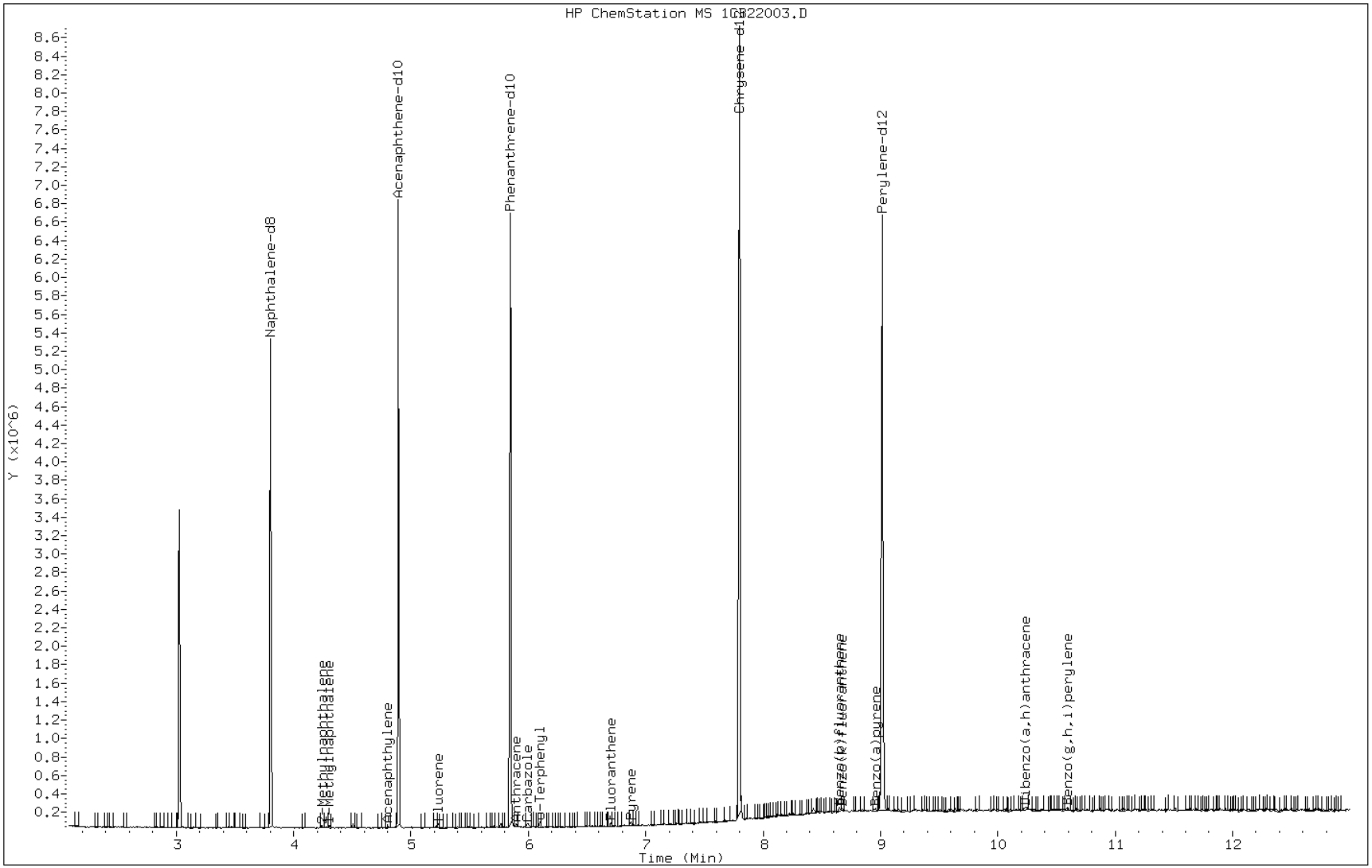
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22003.D

Date: 22-FEB-2013 11:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

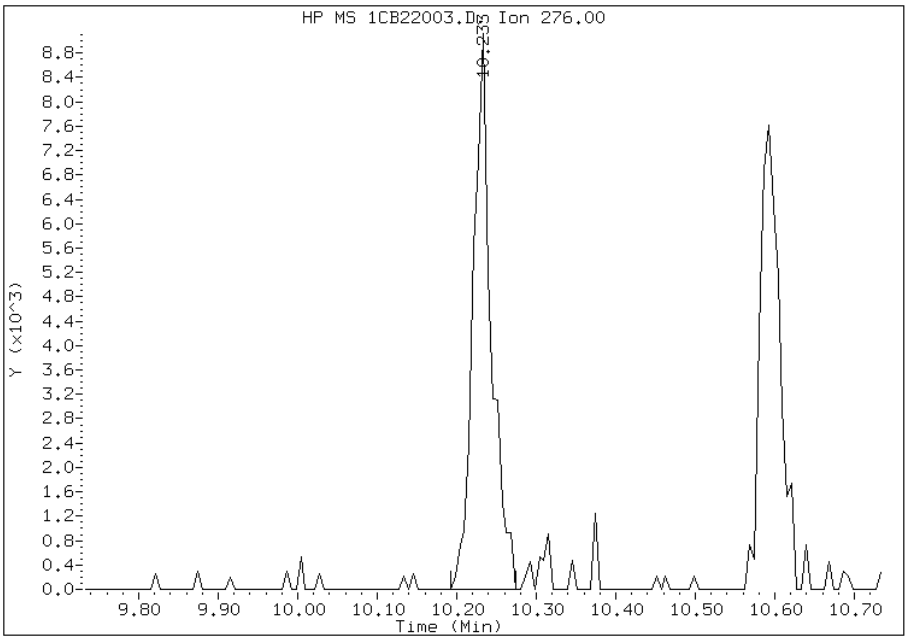
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



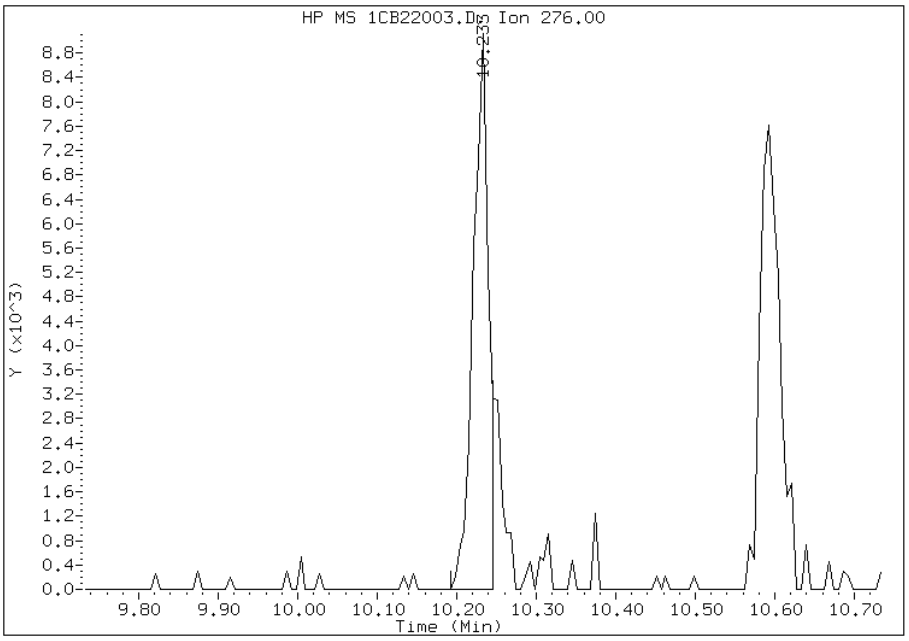
Manual Integration Results

RT: 10.23

Response: 12119

Amount: 0

Conc: 0



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.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

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
	5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
	7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
	9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
	11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
	12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
	13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
	15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
	16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
	19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
	20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
	24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
	25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

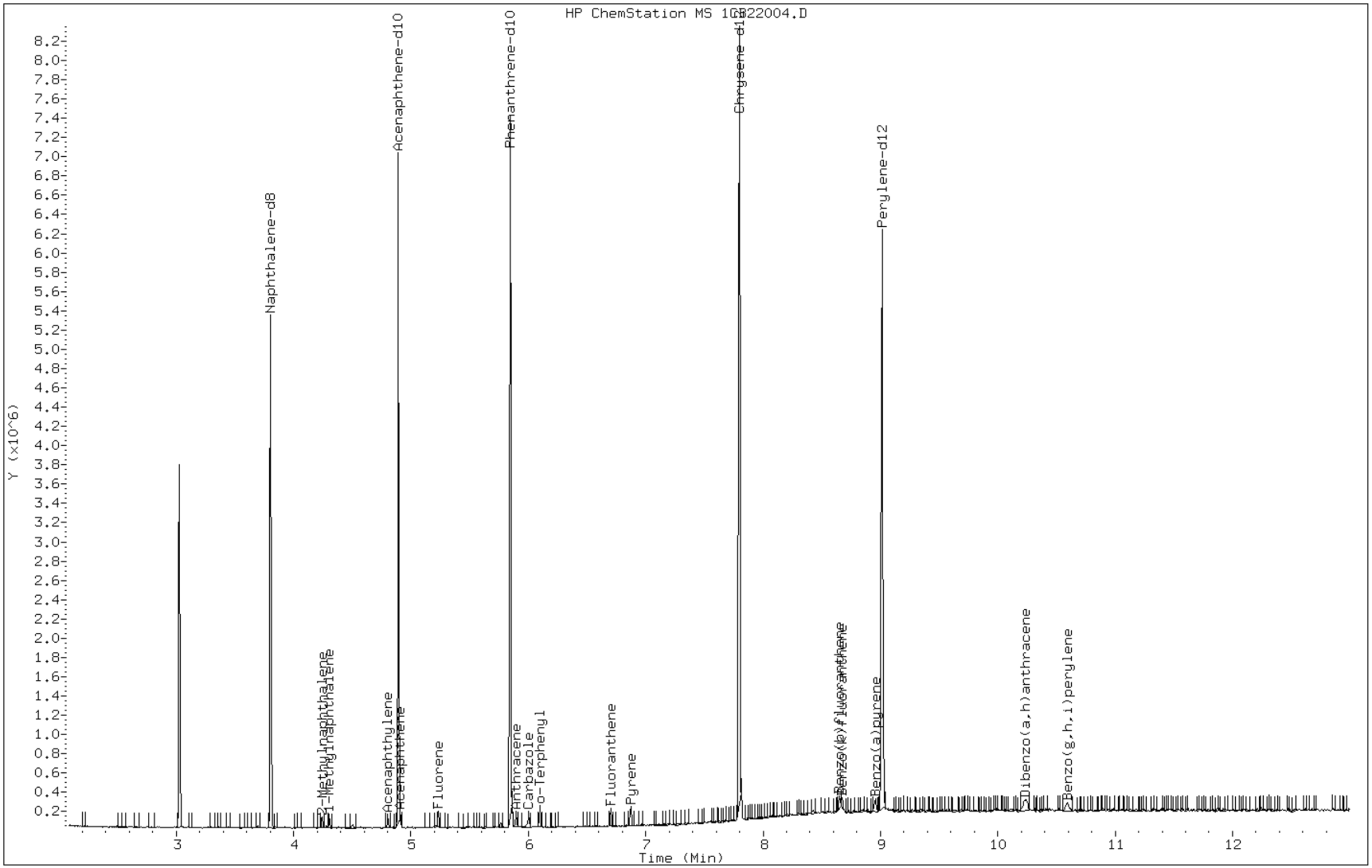
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

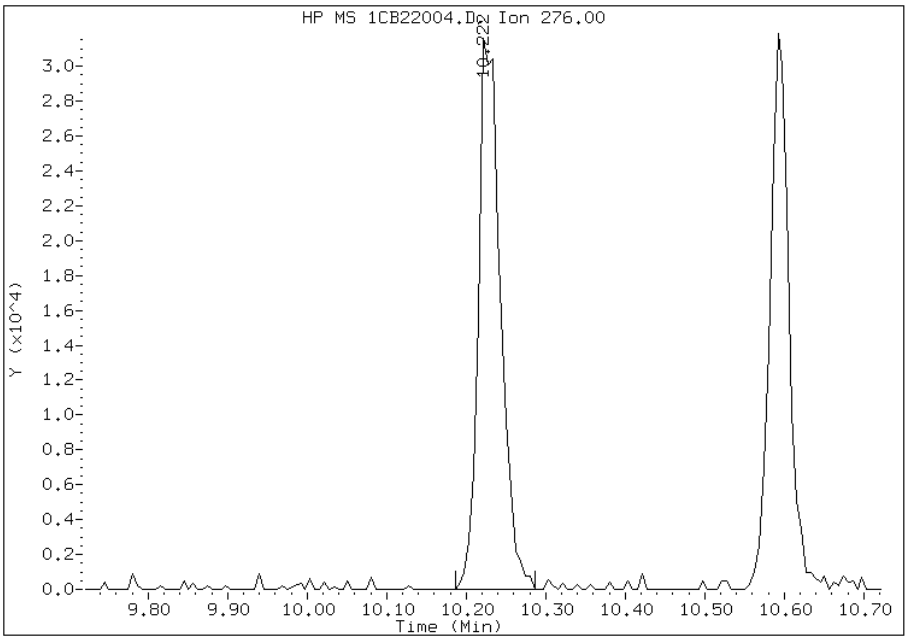
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



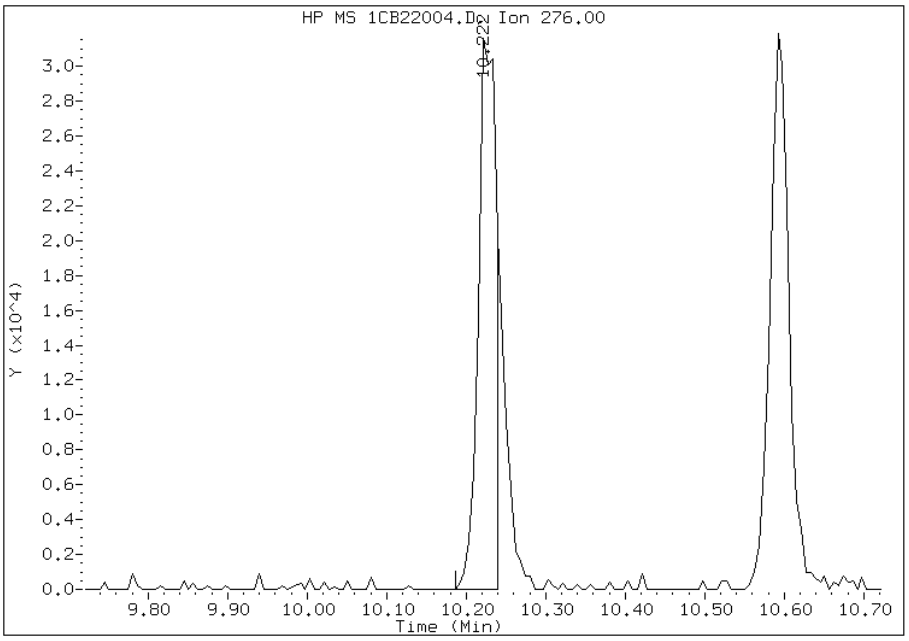
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.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

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
	5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
	7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
	9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
	11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
	12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
	13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
	15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
	16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
	17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
	19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
	20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
	24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
	25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

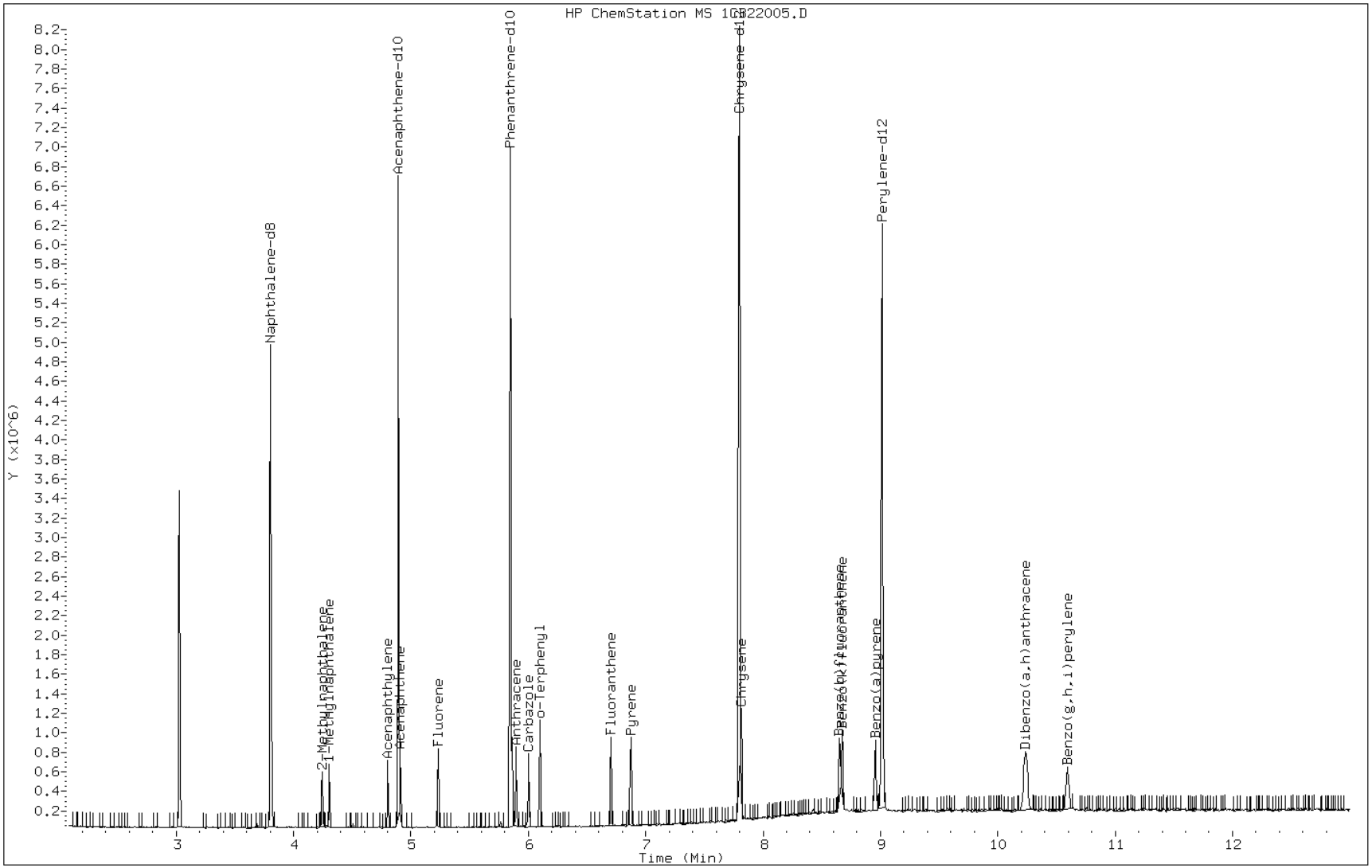
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC



Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

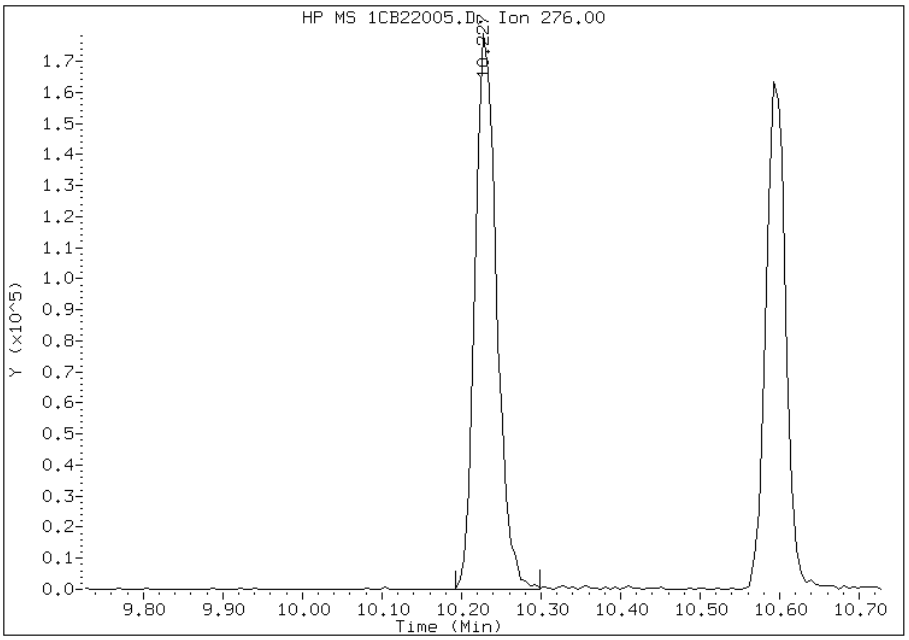
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



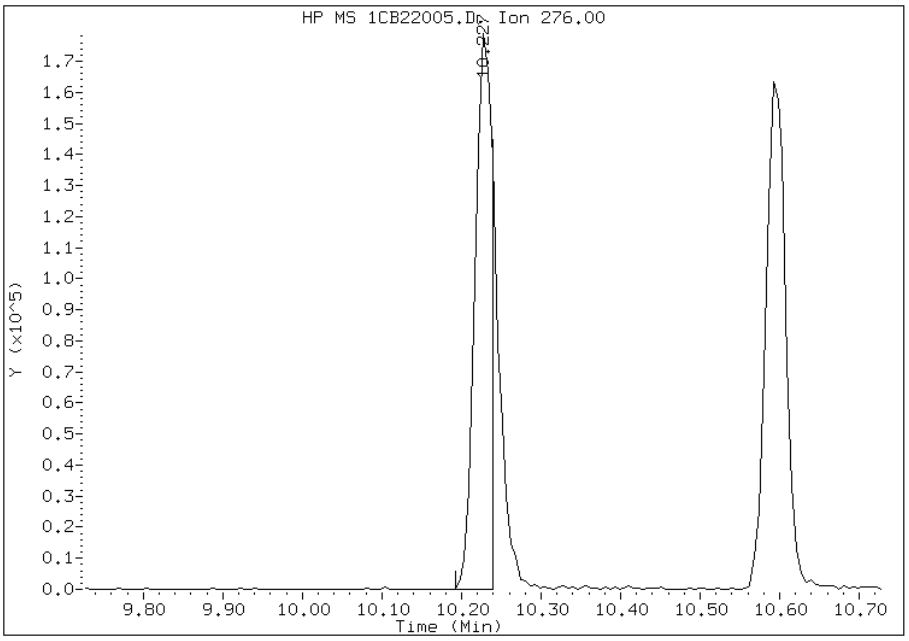
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
	5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
	7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
	9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
	11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
	12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
	13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
	15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
	16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
	17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
	19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
	20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
	24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
	25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

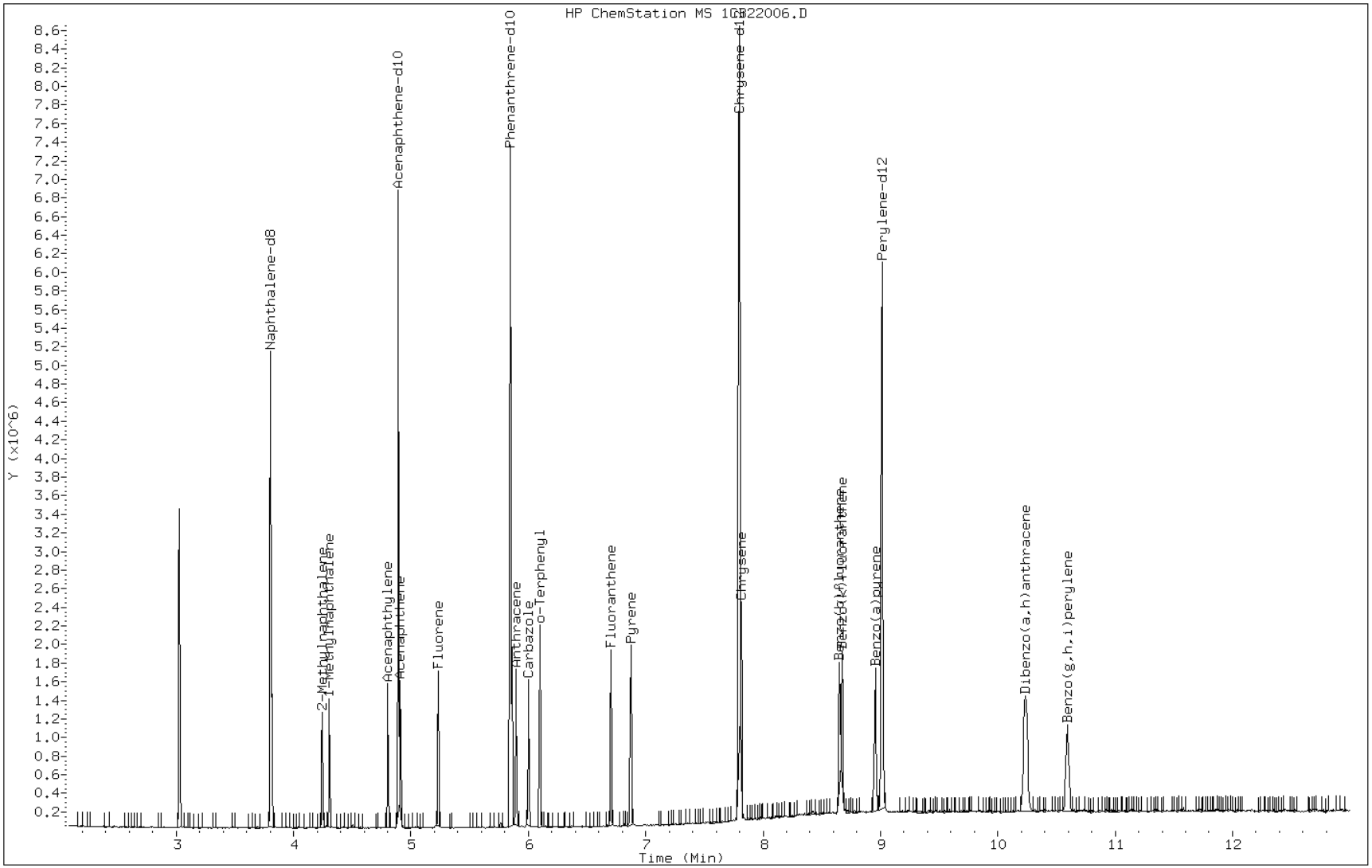
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

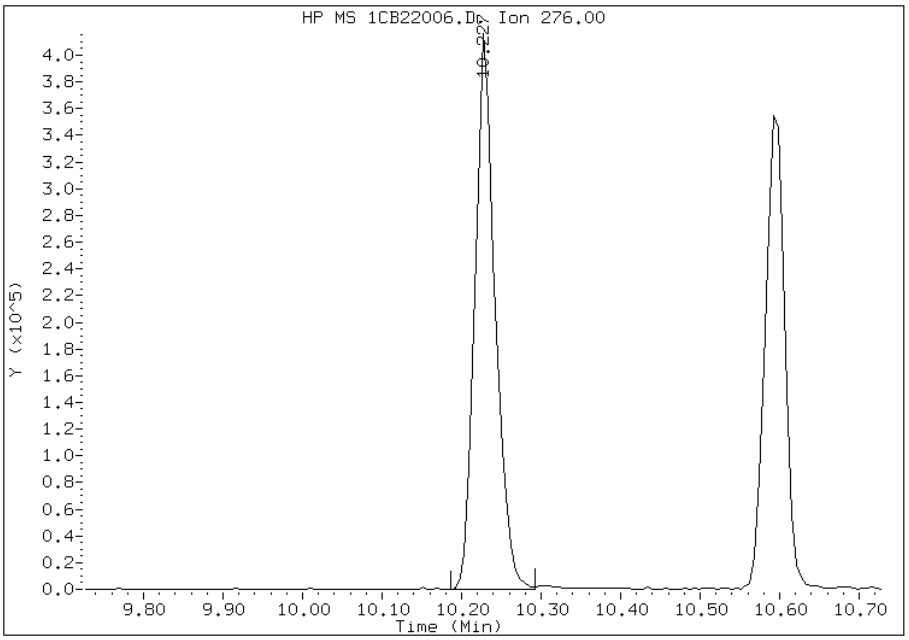
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



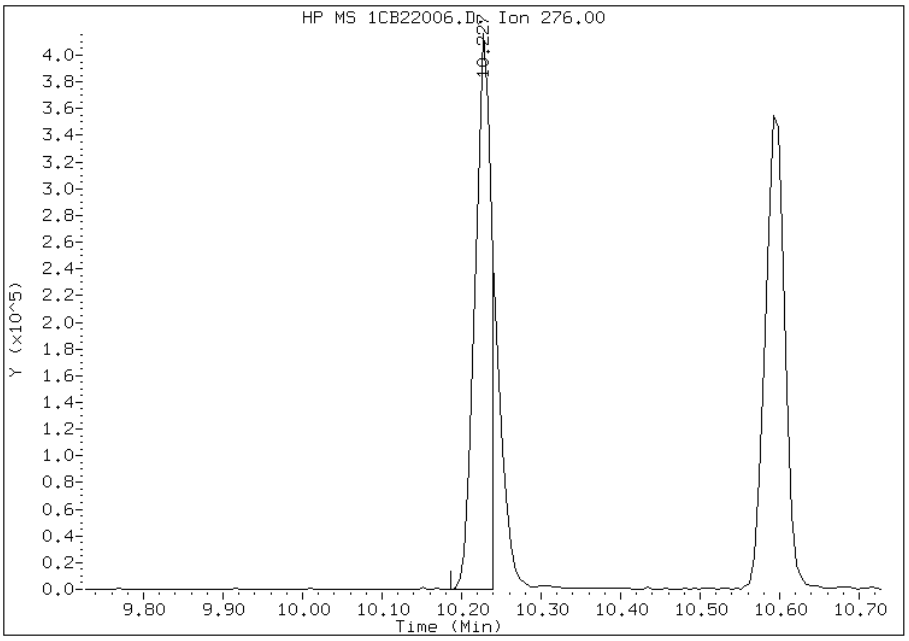
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.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/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
	5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
	7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
	9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
	11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
	12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
	13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
	15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
	16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
	19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
	20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
	21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
	22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
	24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
	25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
	26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

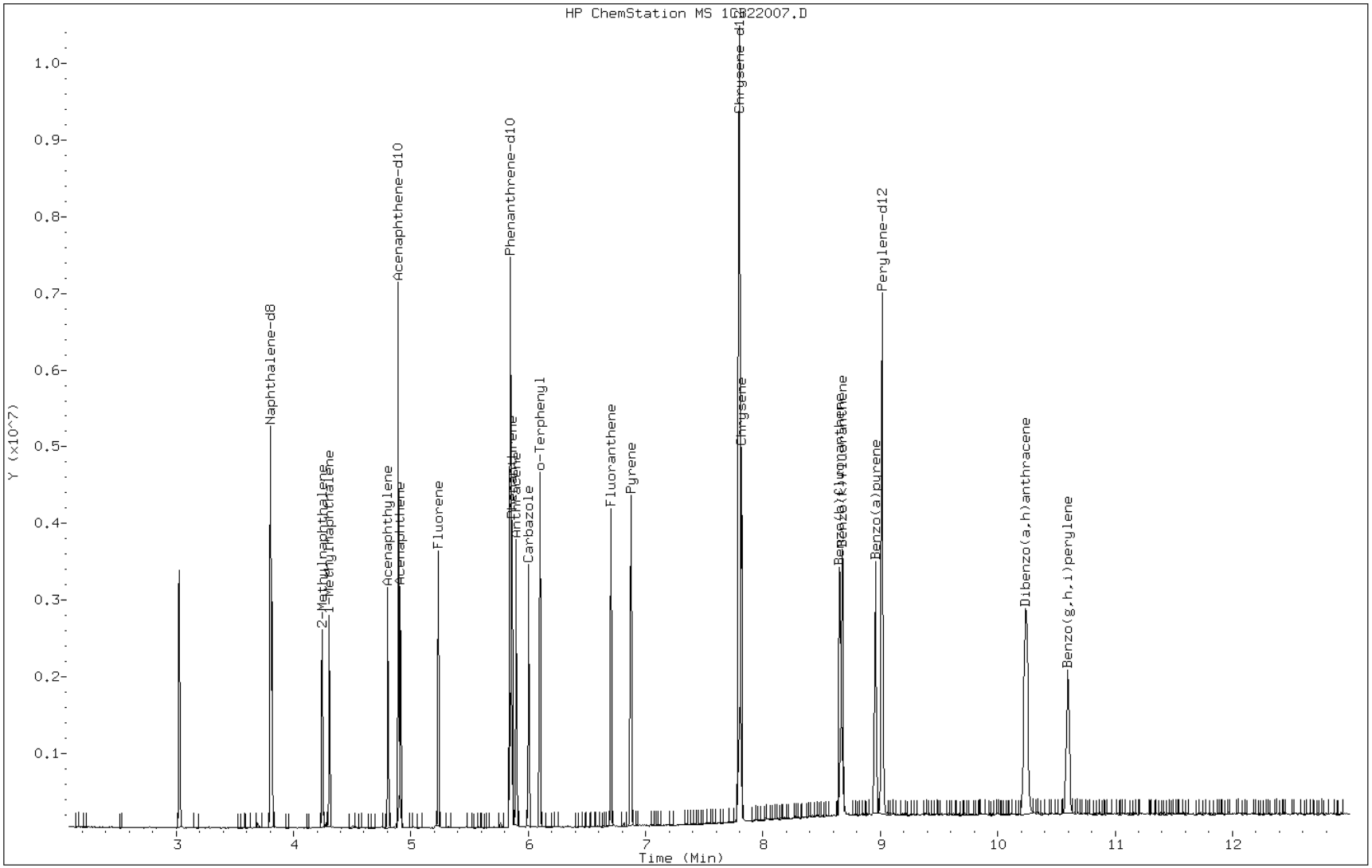
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

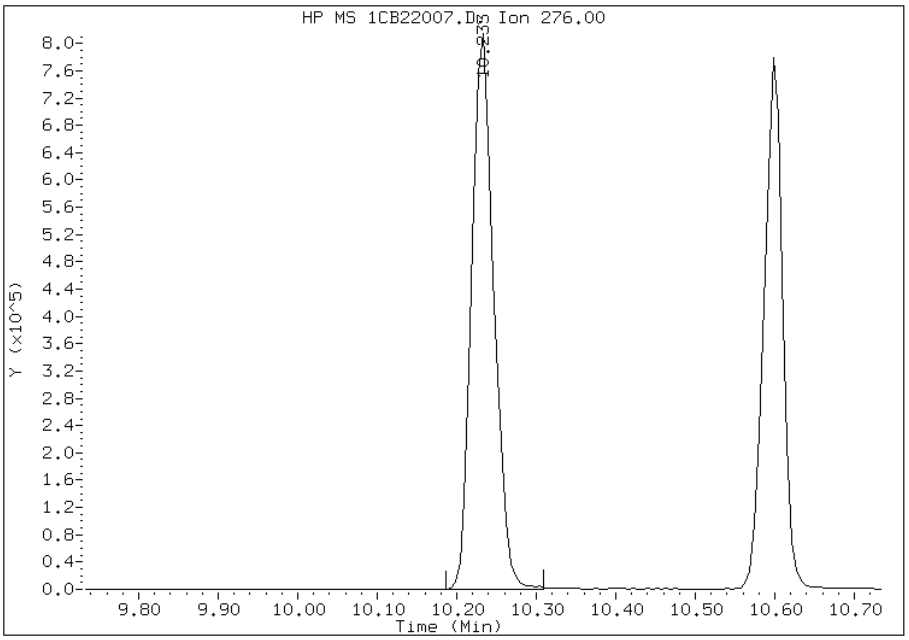
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



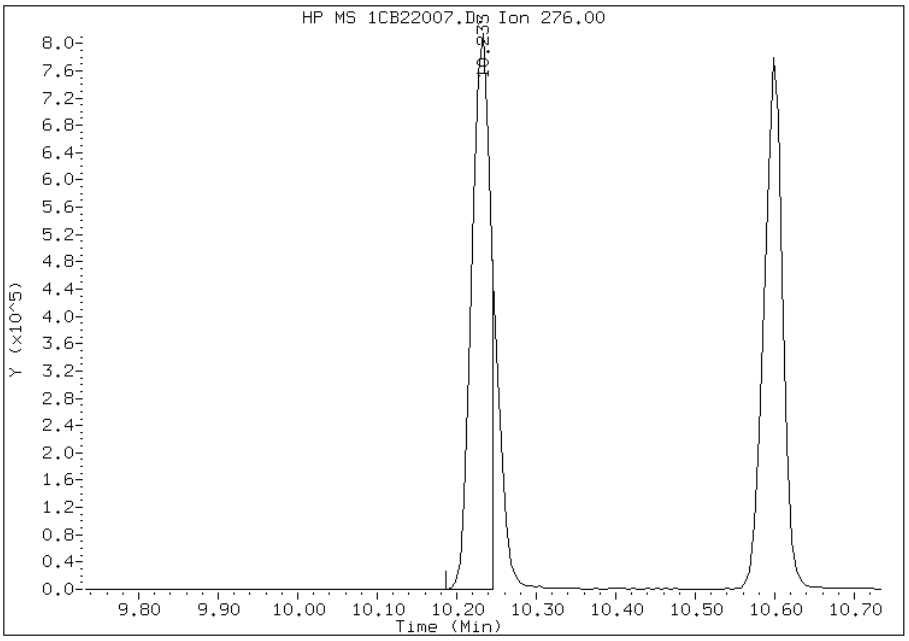
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.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	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
	5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
	7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
	9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
	11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
	12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
	13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
	15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
	16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
	19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
	20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
	21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
	22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
	24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
	25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
	26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

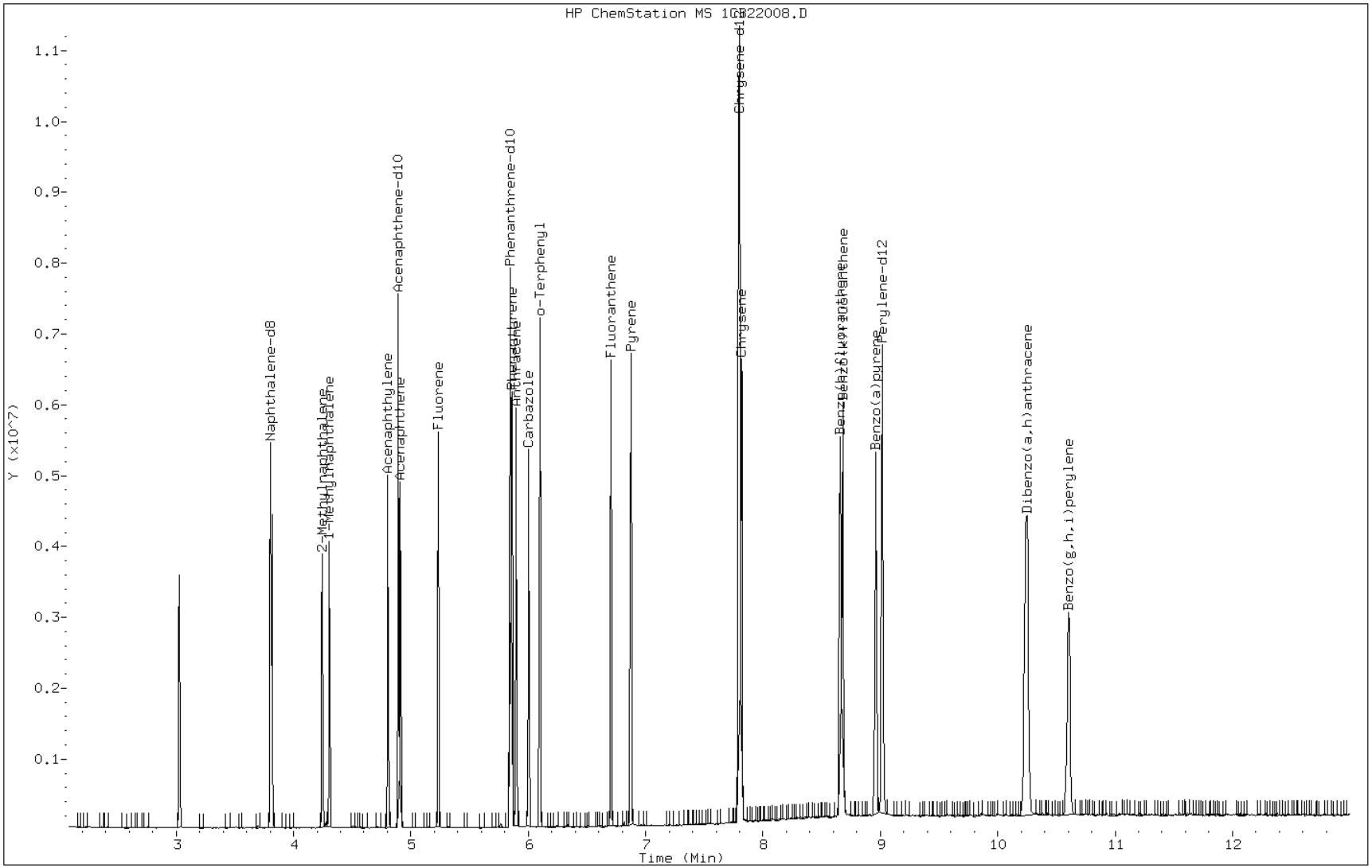
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC



Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

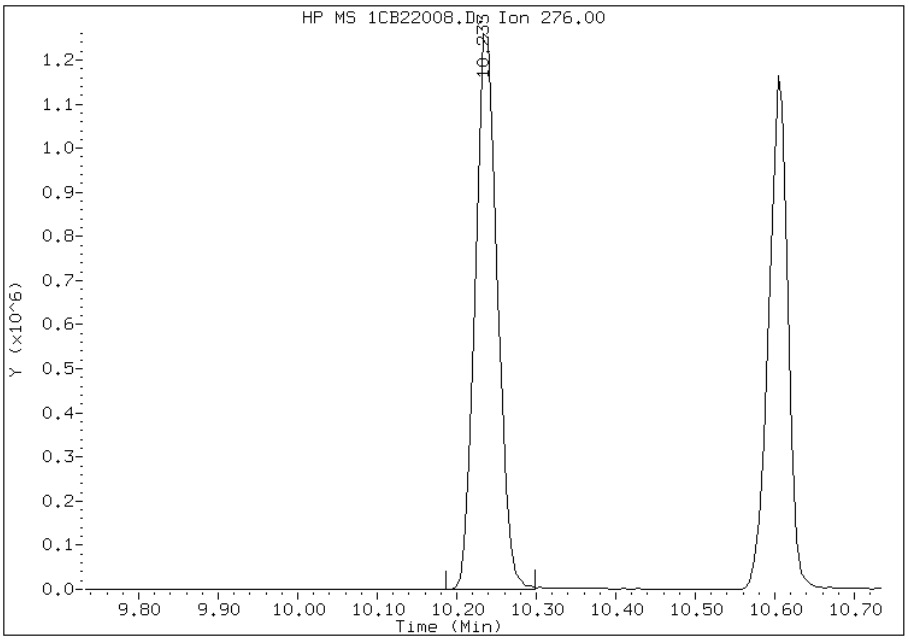
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



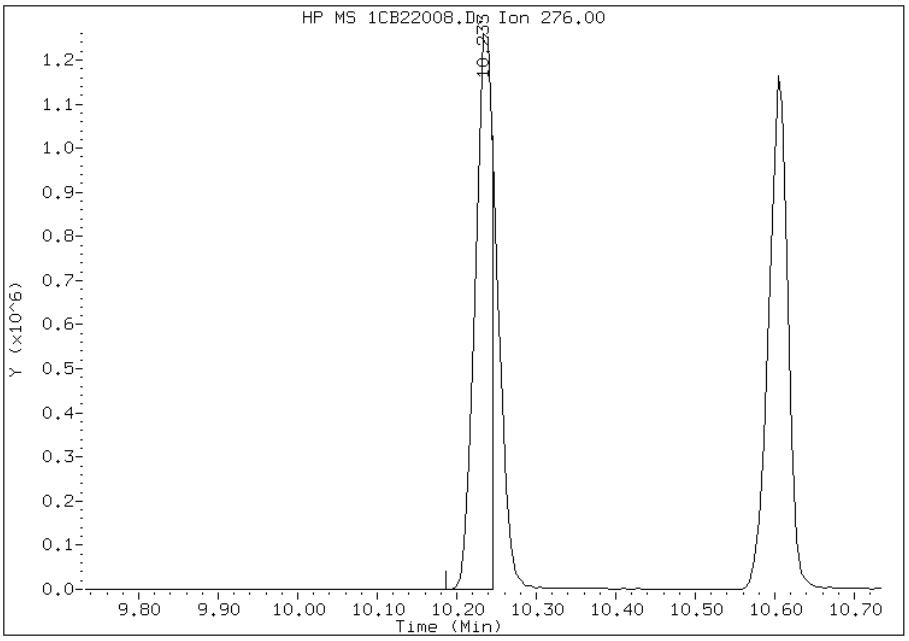
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.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/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

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

Data File: 1CB22009.D

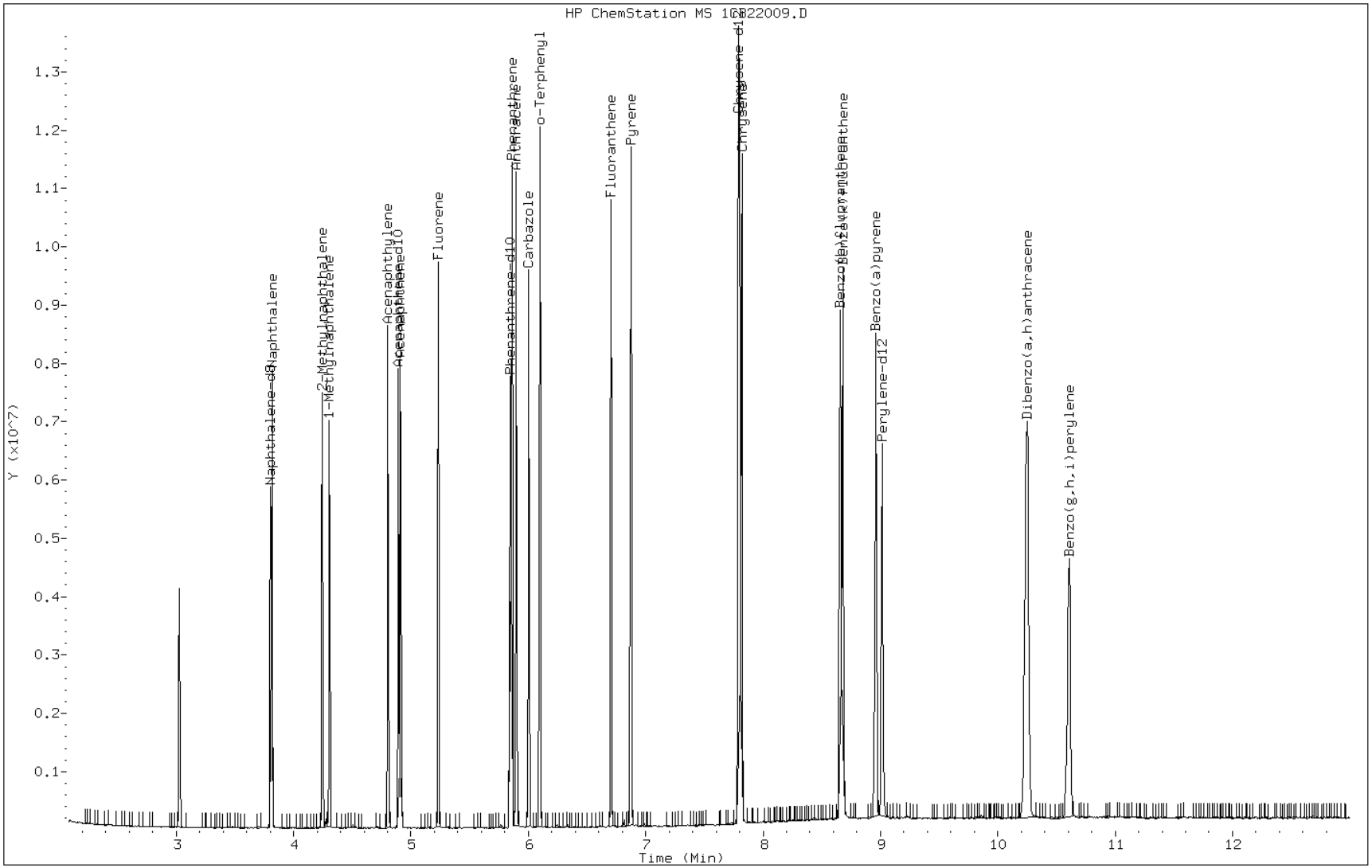
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

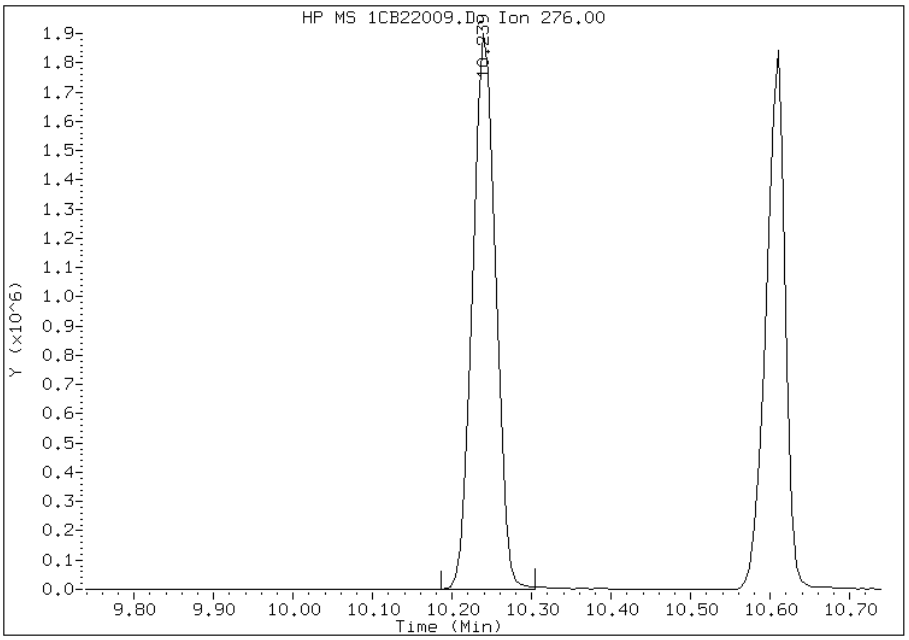
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



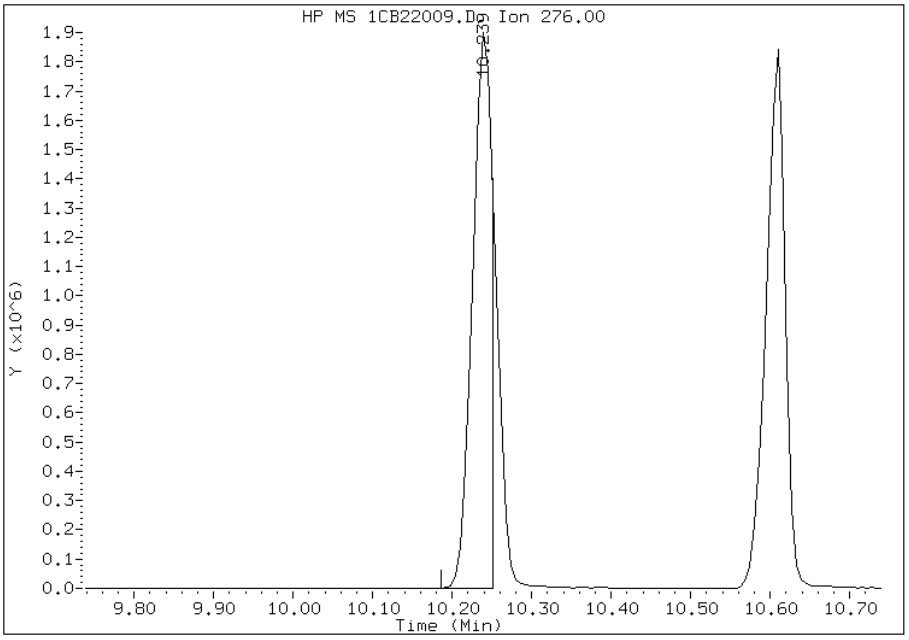
Manual Integration Results

RT: 10.24

Response: 3187834

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88298-1 Analy Batch No.: 134781

SDG No.: 68088298-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.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	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		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.: 680-88298-1 Analy Batch No.: 134781

SDG No.: 68088298-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		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.: 680-88298-1 Analy Batch No.: 134781

SDG No.: 68088298-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.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	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	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.: 680-88298-1 Analy Batch No.: 134781

SDG No.: 68088298-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

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[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
*	6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
$	13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
*	17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
*	22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
	2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
	4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
	5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
	7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
	8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
	10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
	11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
	12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
	14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
	15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
	16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
	18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
	19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
	20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
	21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
	23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
	24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
	25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

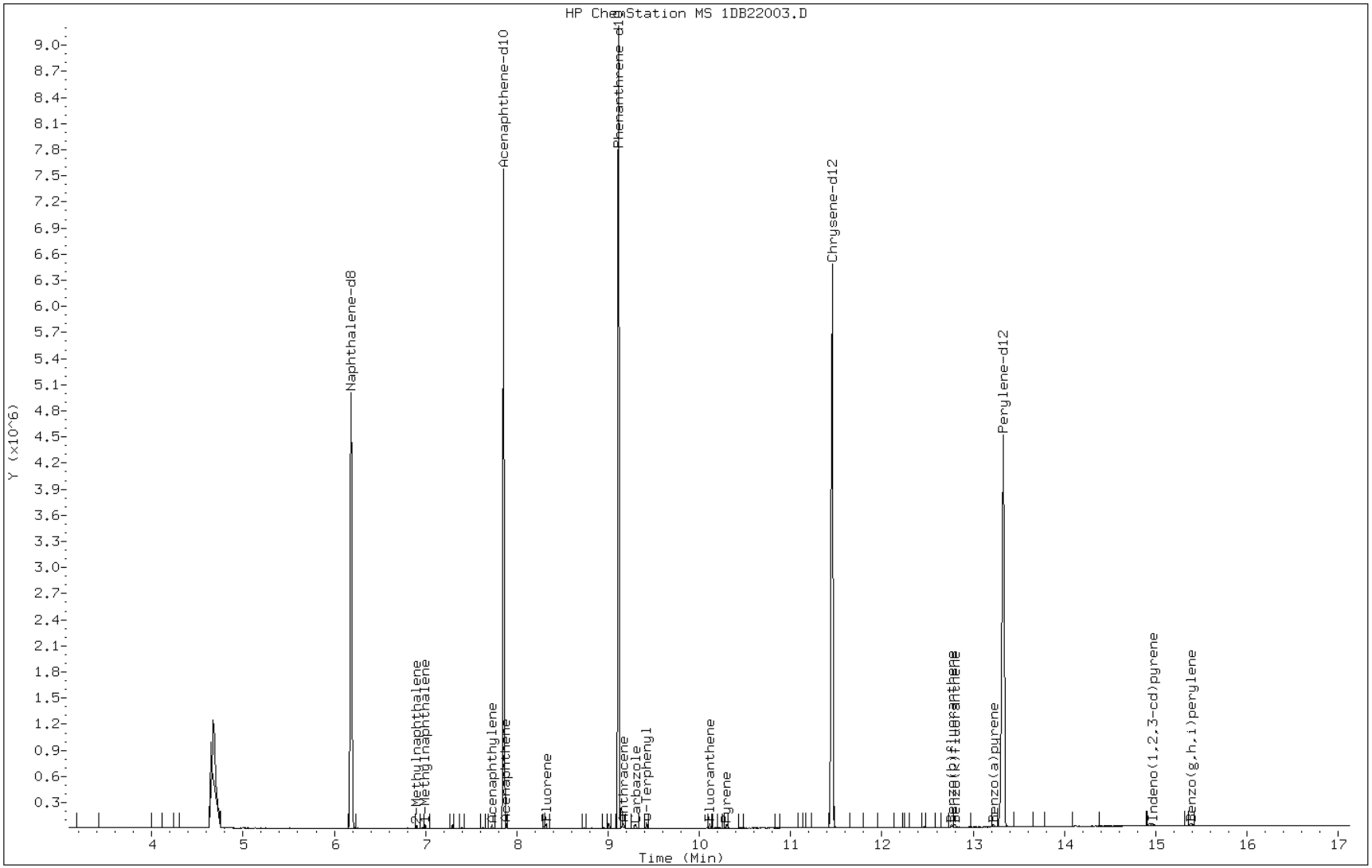
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

Date: 22-FEB-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

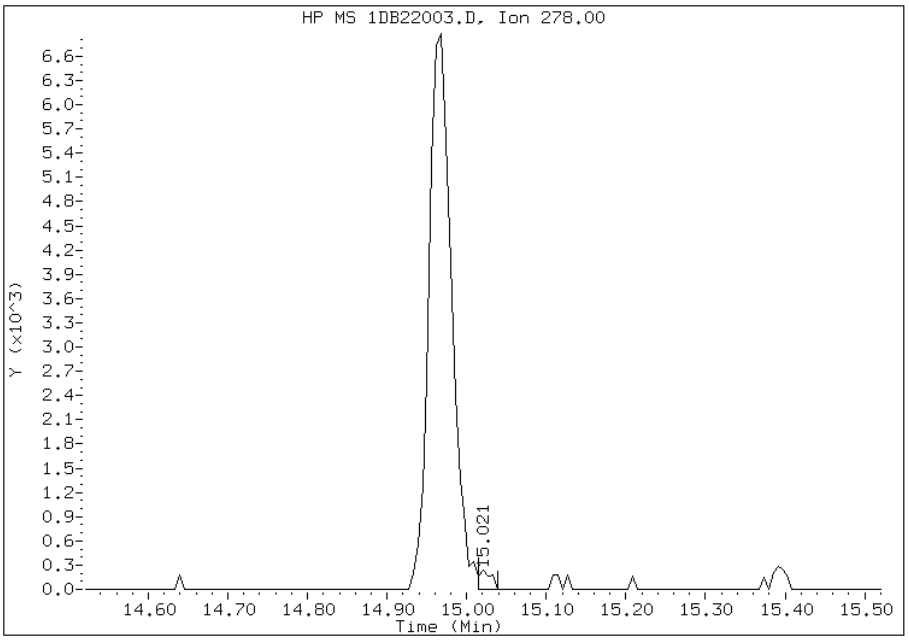
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



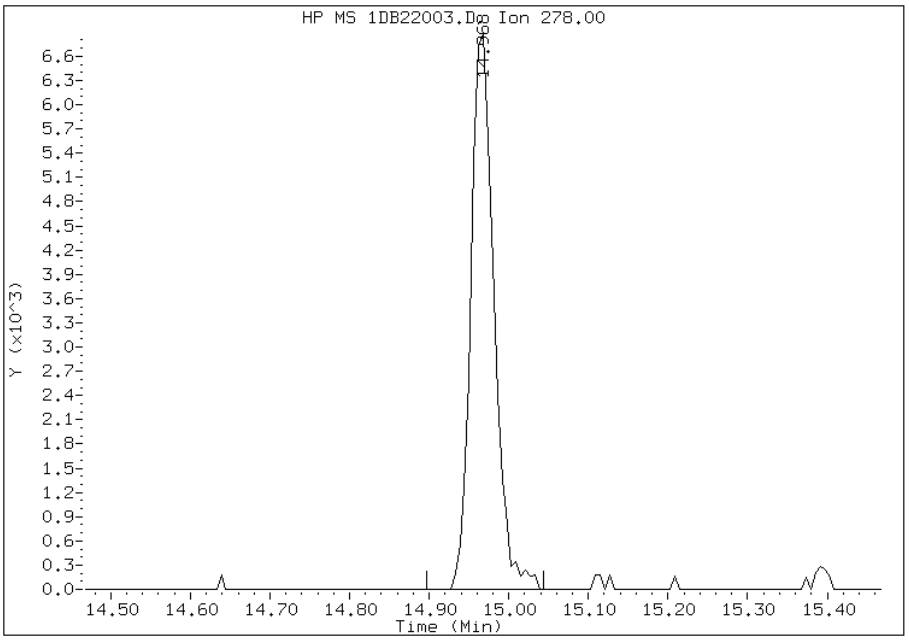
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

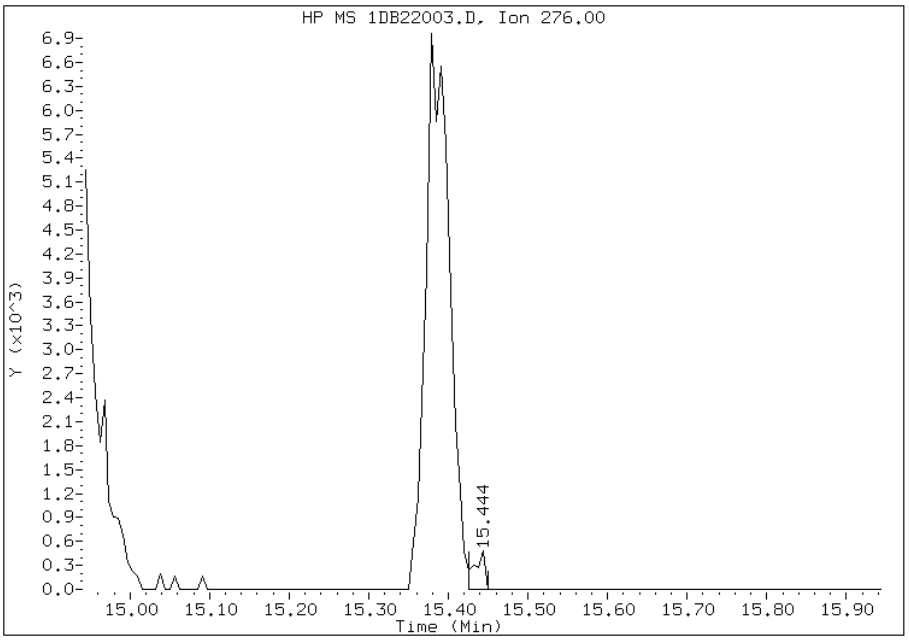
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



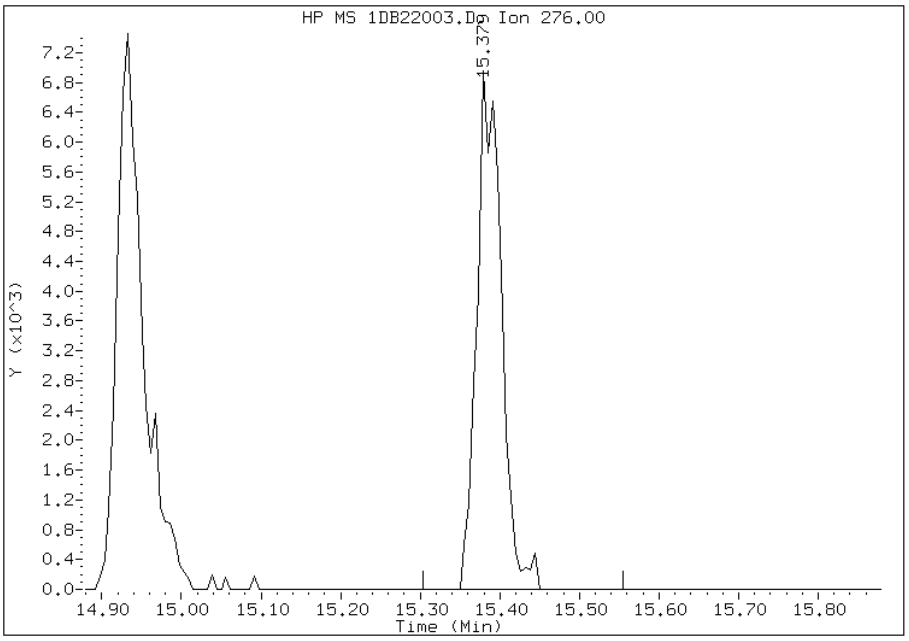
Manual Integration Results

RT: 15.38

Response: 14886

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.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	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

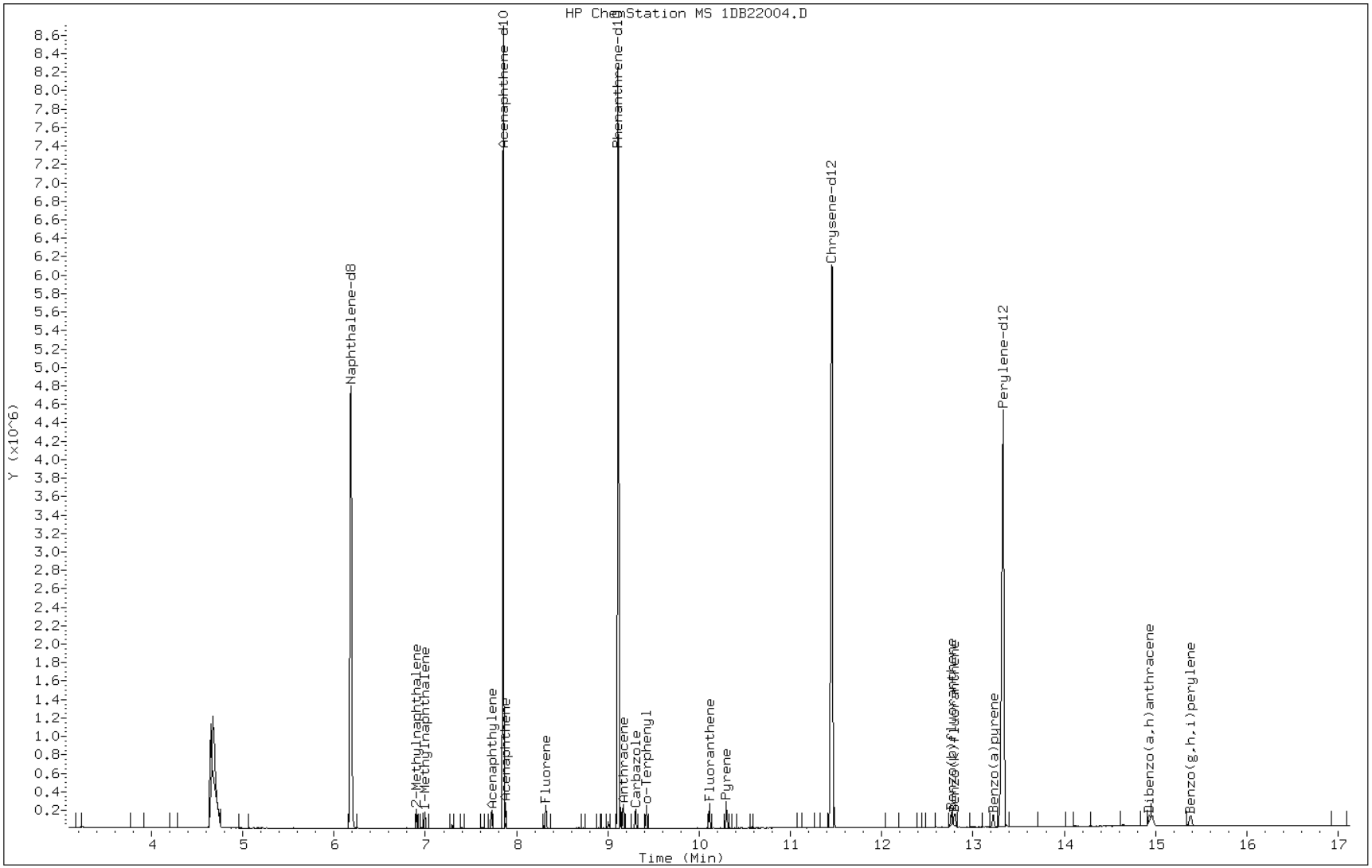
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

Date: 22-FEB-2013 12:35

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

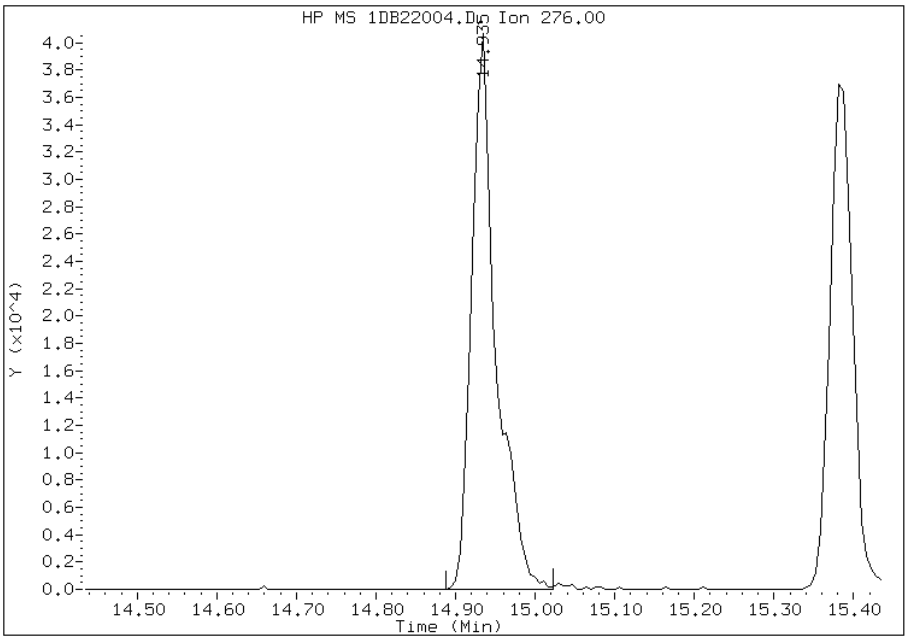
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



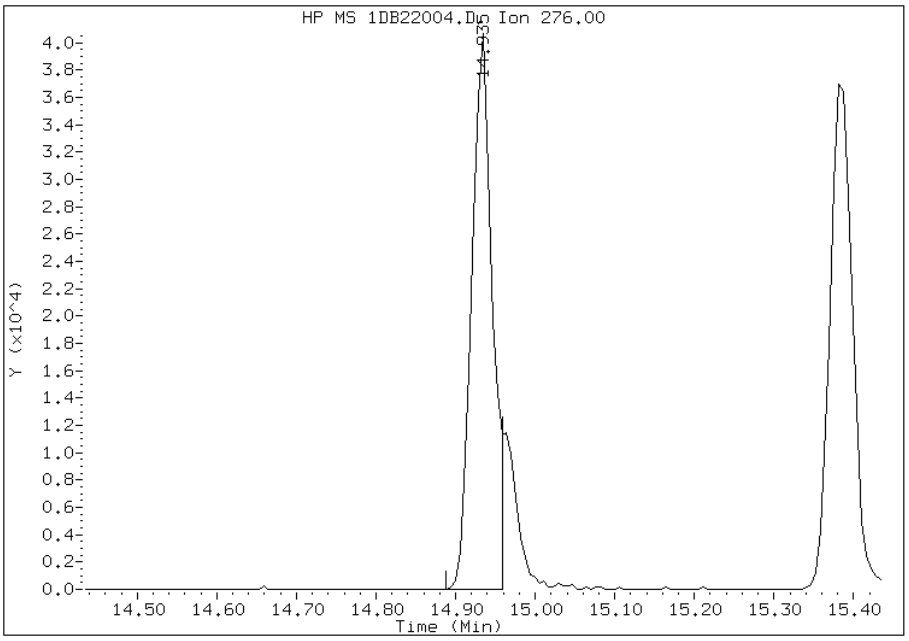
Manual Integration Results

RT: 14.93

Response: 73004

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.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	6.184	6.184	(1.000)	2789095	40.0000	
*	6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
*	9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
$	13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
*	17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
*	22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
	2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
	3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
	4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
	5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
	7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
	8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
	10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
	11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
	12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
	14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
	15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
	16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
	18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
	19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
	20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
	21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
	23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
	24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
	25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

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

Data File: 1DB22005.D

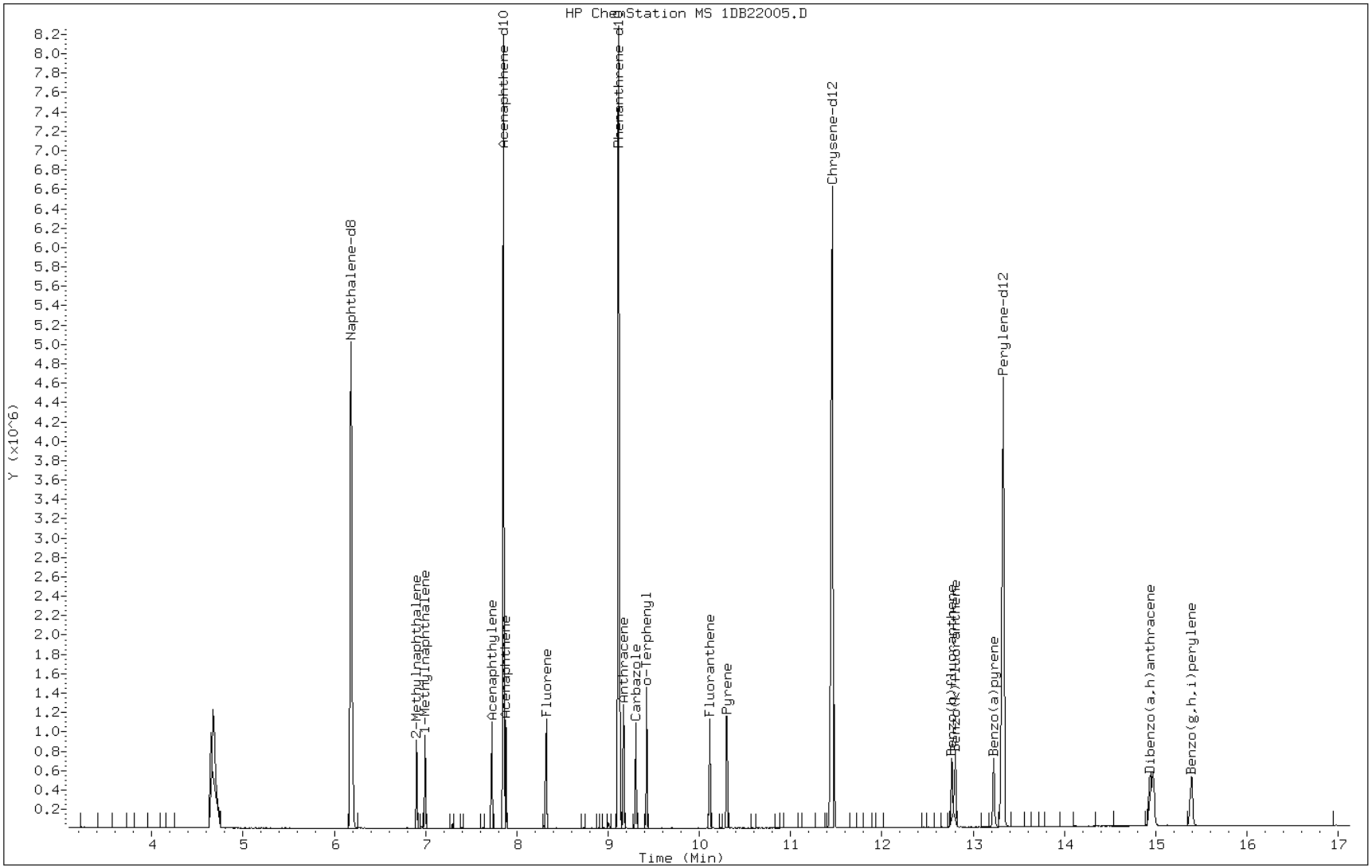
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC



Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

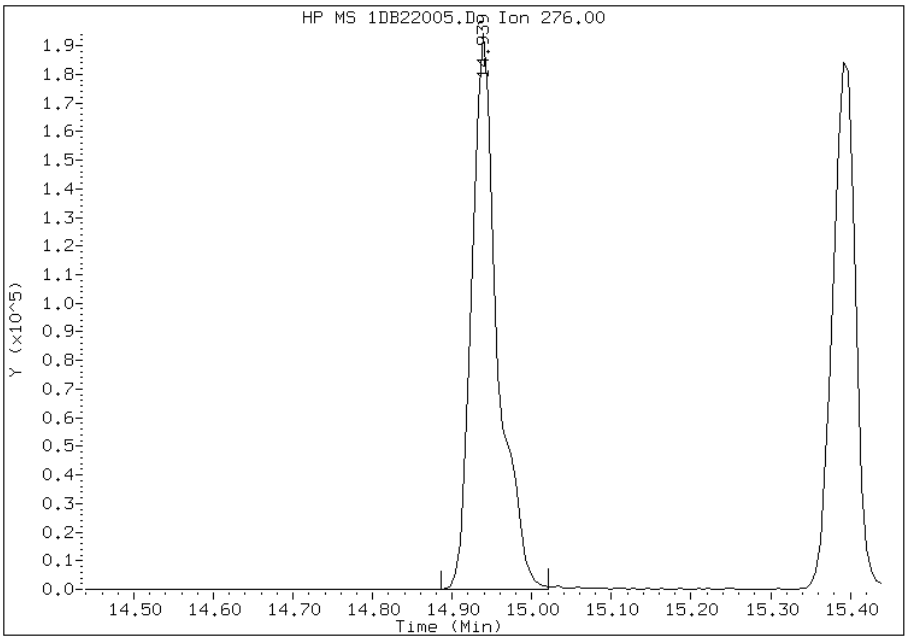
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



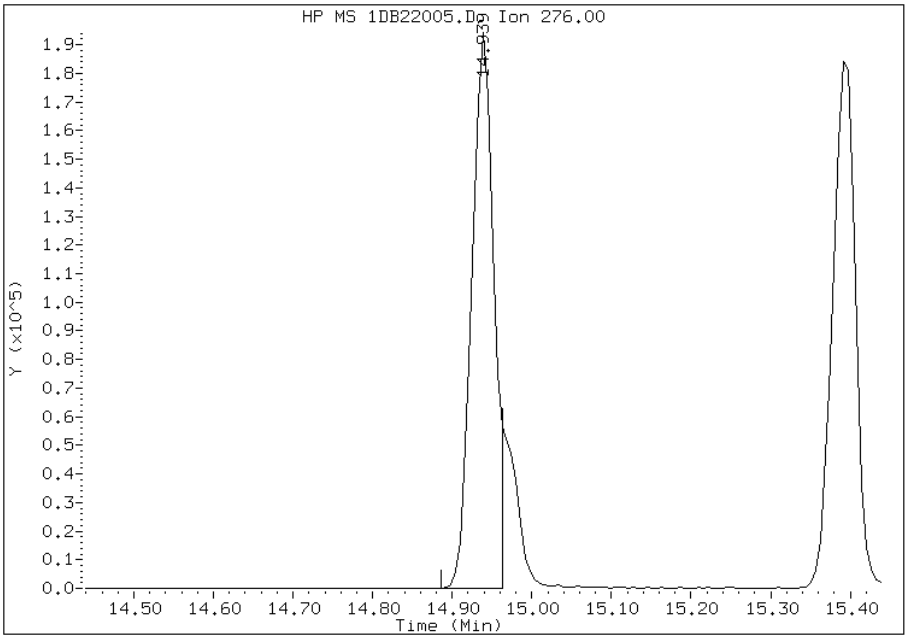
Manual Integration Results

RT: 14.94

Response: 372428

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.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	6.183	6.183	(1.000)	2848559	40.0000	
*	6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
$	13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
*	17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
*	22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
	2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
	4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
	5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
	7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
	8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
	10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
	11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
	12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
	14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
	15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
	16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
	18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
	19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
	20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
	21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
	23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
	24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
	25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

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

Data File: 1DB22006.D

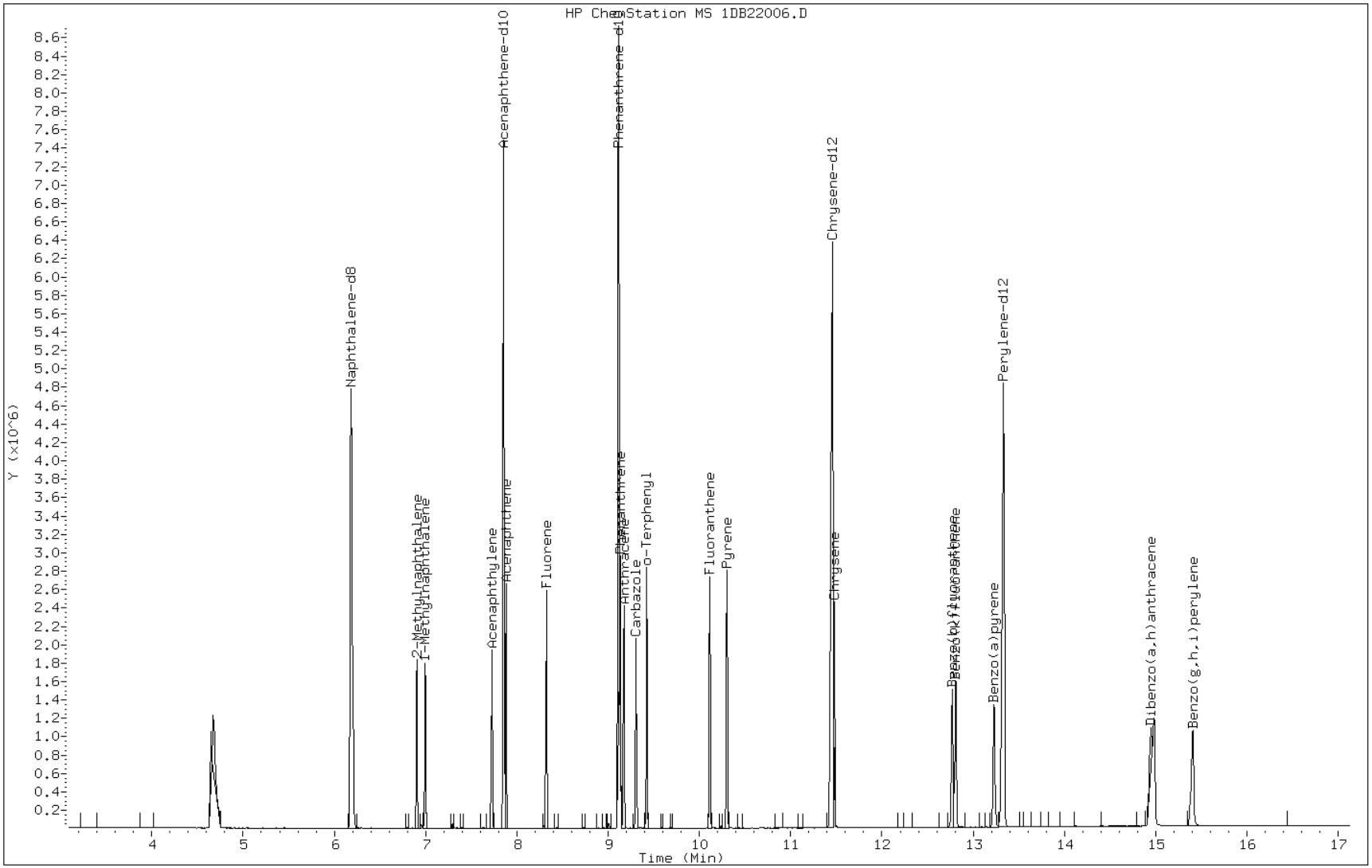
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

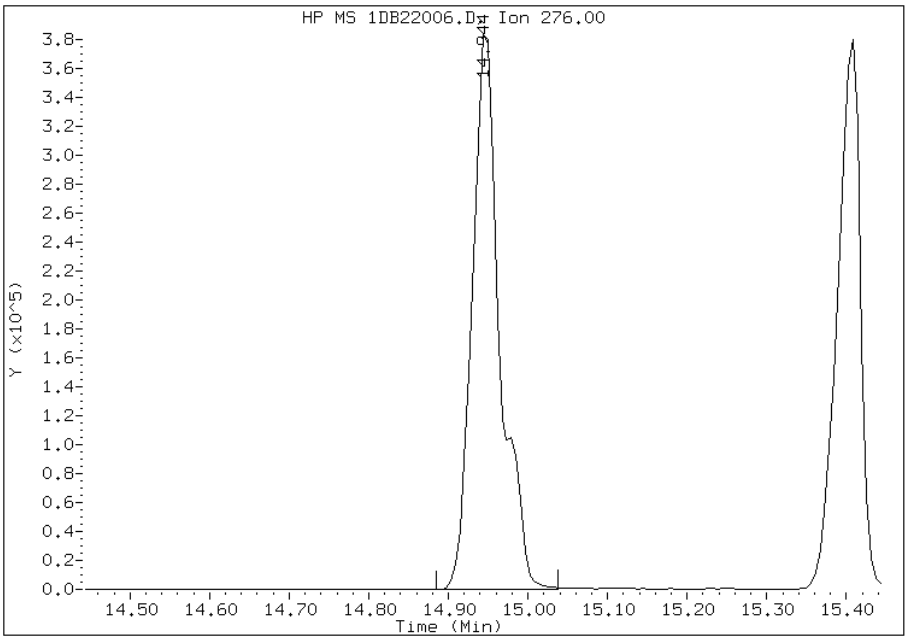
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



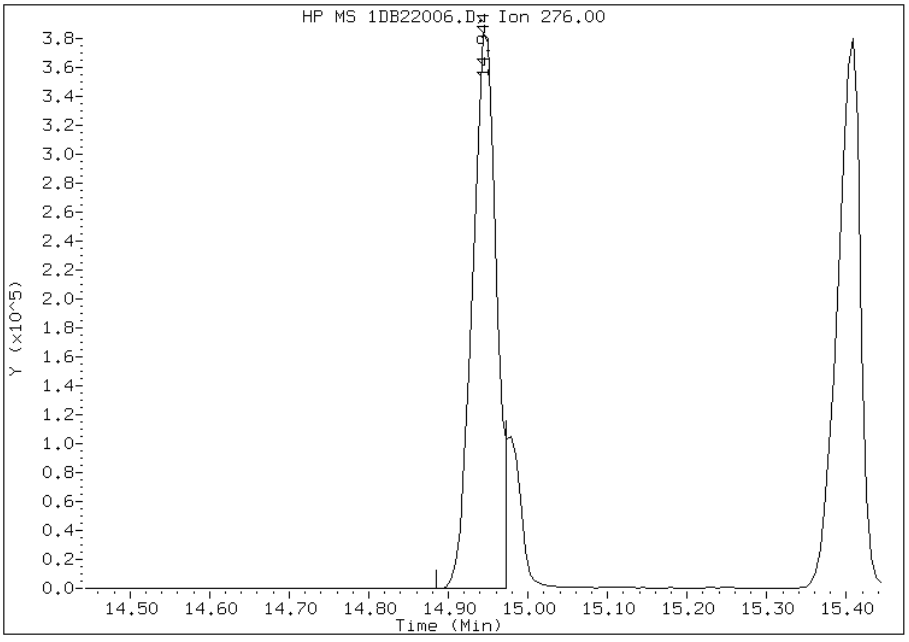
Manual Integration Results

RT: 14.94

Response: 814504

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.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

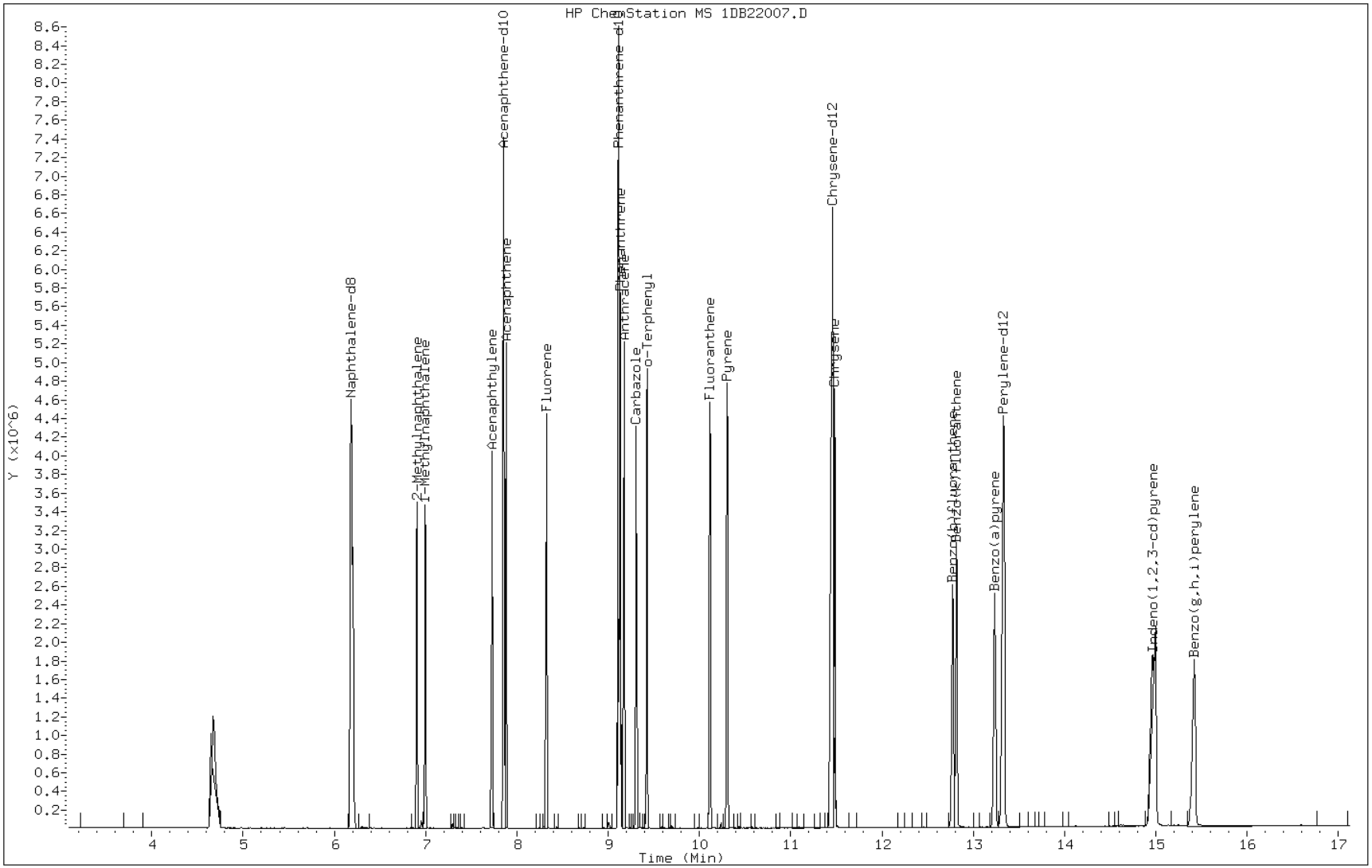
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
*	6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$	13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
*	17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
*	22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
	2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
	4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
	5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
	7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
	8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
	10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
	11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
	12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
	14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
	15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
	16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
	18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
	19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
	20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
	21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
	23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
	24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
	25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

Date: 22-FEB-2013 13:43

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1512372 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
*	6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
$	13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
*	17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
*	22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
	2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
	4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
	5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
	7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
	8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
	10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
	11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
	12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
	14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
	15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
	16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
	18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
	19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
	20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
	21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
	23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
	24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
	25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

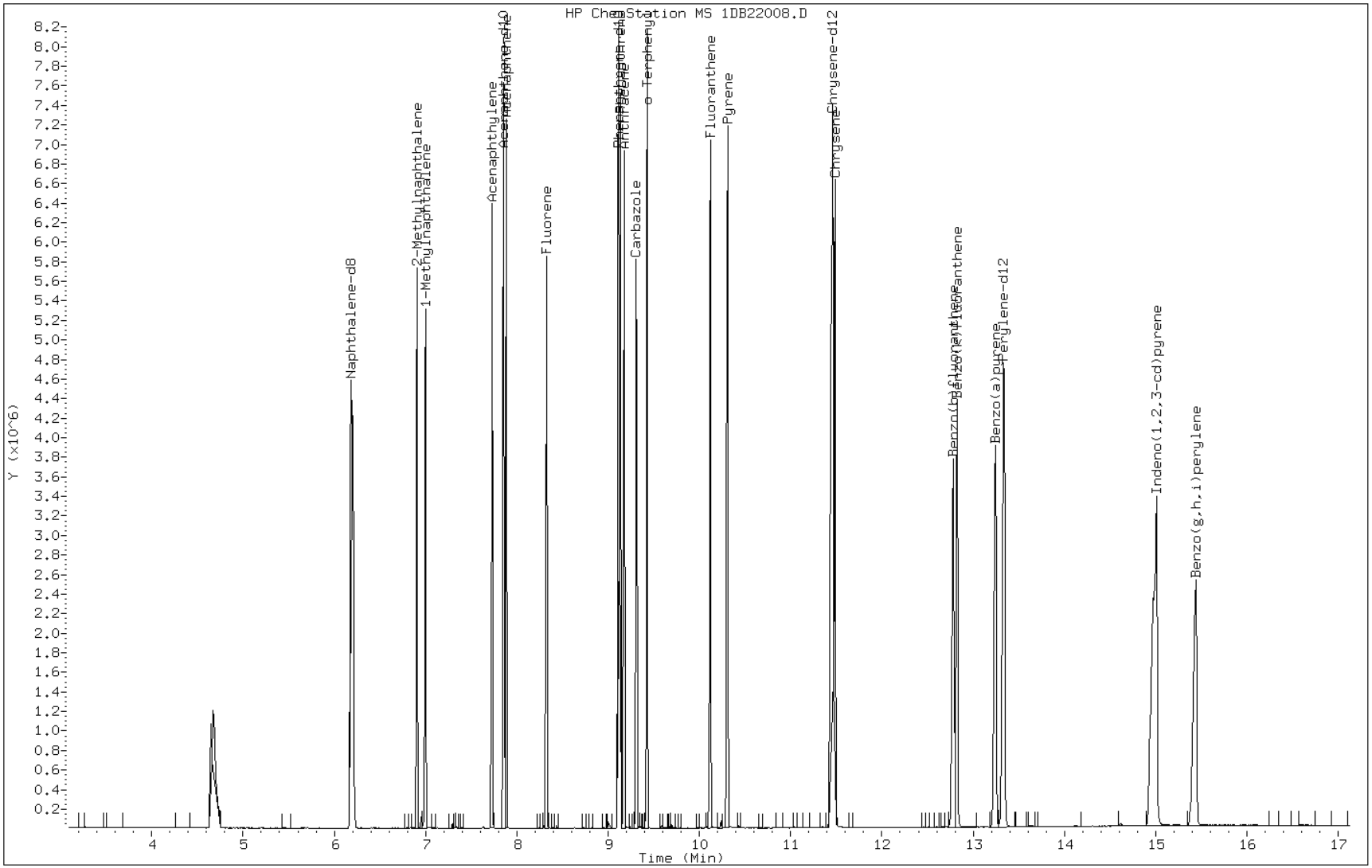
H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

Date: 22-FEB-2013 14:06

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512373 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

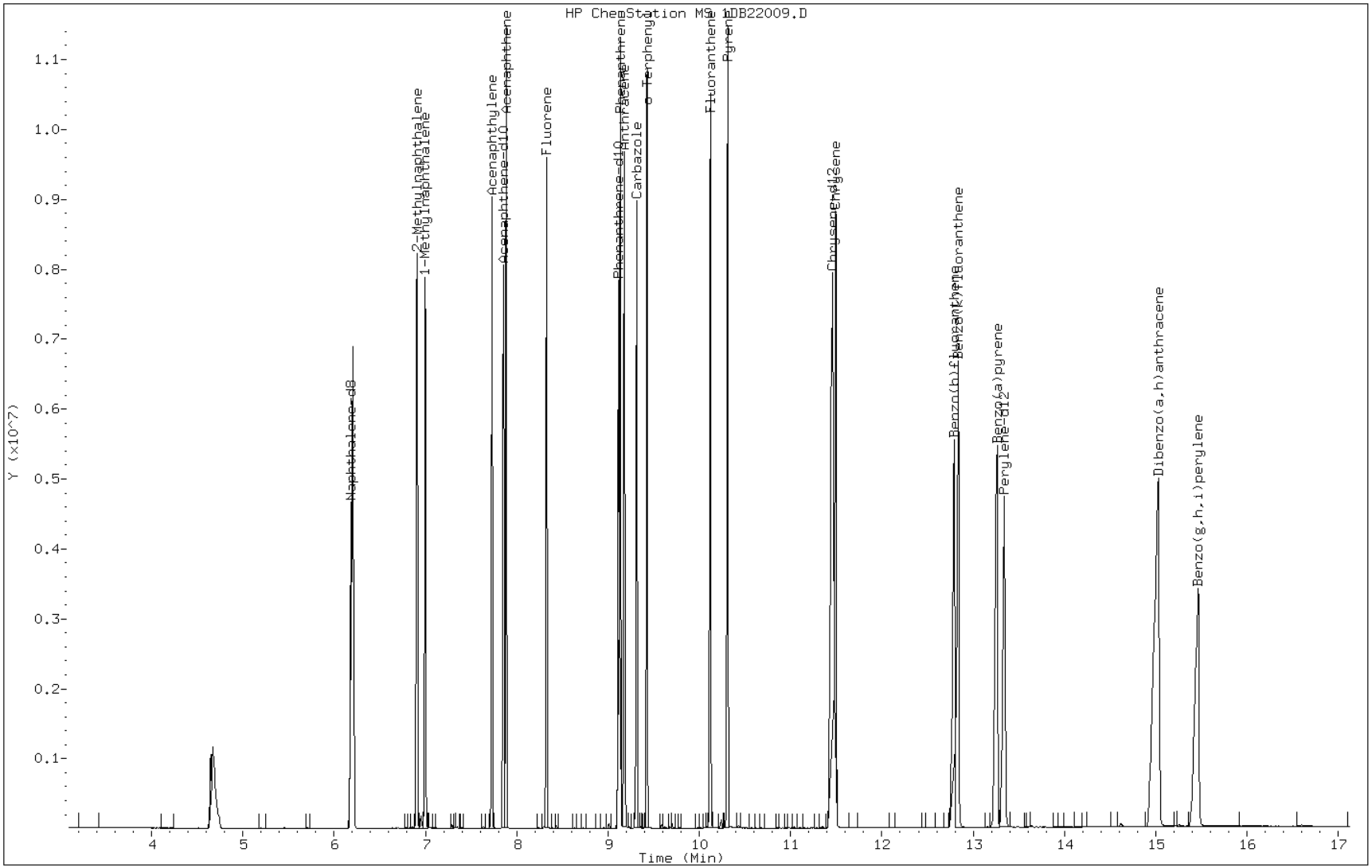
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

Date: 22-FEB-2013 14:28

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

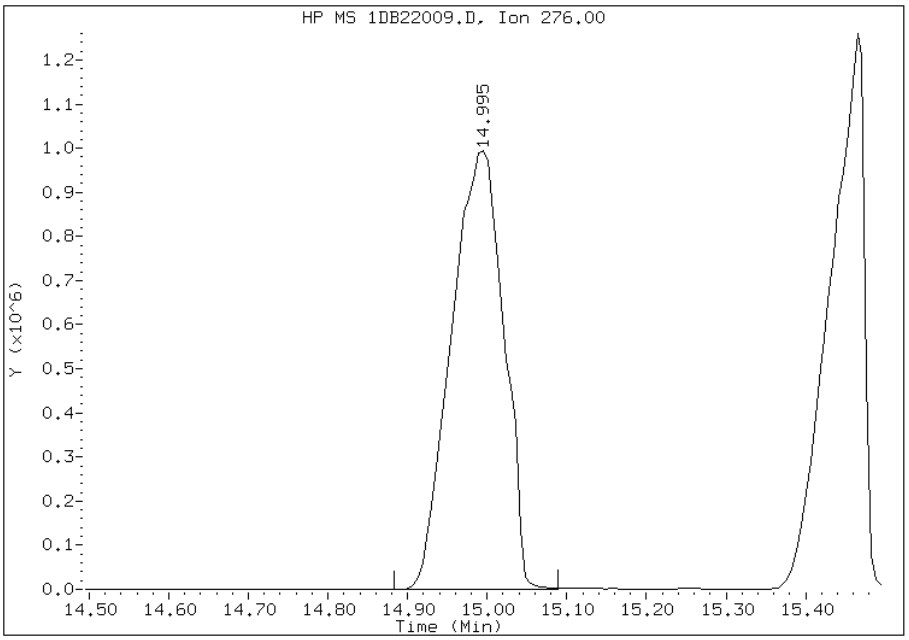
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



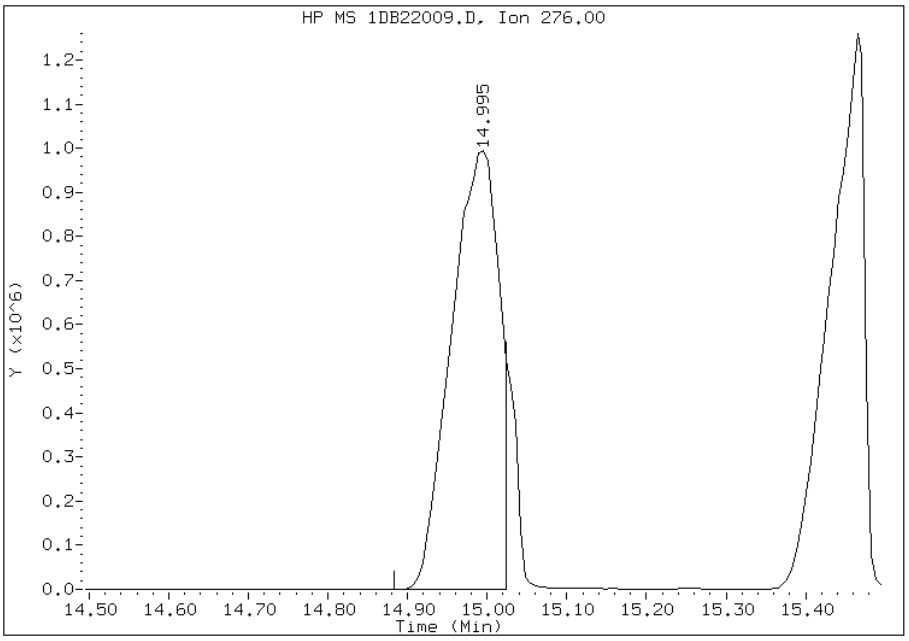
Manual Integration Results

RT: 15.00

Response: 4194422

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1383069	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1075067	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2141313	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	528461	16.3458	16.3457
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2766374	40.0000	
*	23 Perylene-d12	264	9.015	9.016	(1.000)	3034368	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	643385	17.8686	17.8685
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	426527	17.7587	17.7586
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	406896	18.6013	18.6013
	5 Acenaphthylene	152	4.804	4.804	(0.982)	792099	18.2750	18.2749
	7 Acenaphthene	154	4.910	4.910	(1.004)	511893	19.0010	19.0010
	9 Fluorene	166	5.233	5.234	(1.070)	612561	17.9790	17.9790
	11 Phenanthrene	178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
	12 Anthracene	178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
	13 Carbazole	167	6.004	6.004	(1.027)	936321	17.3944	17.3943
	15 Fluoranthene	202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
	16 Pyrene	202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

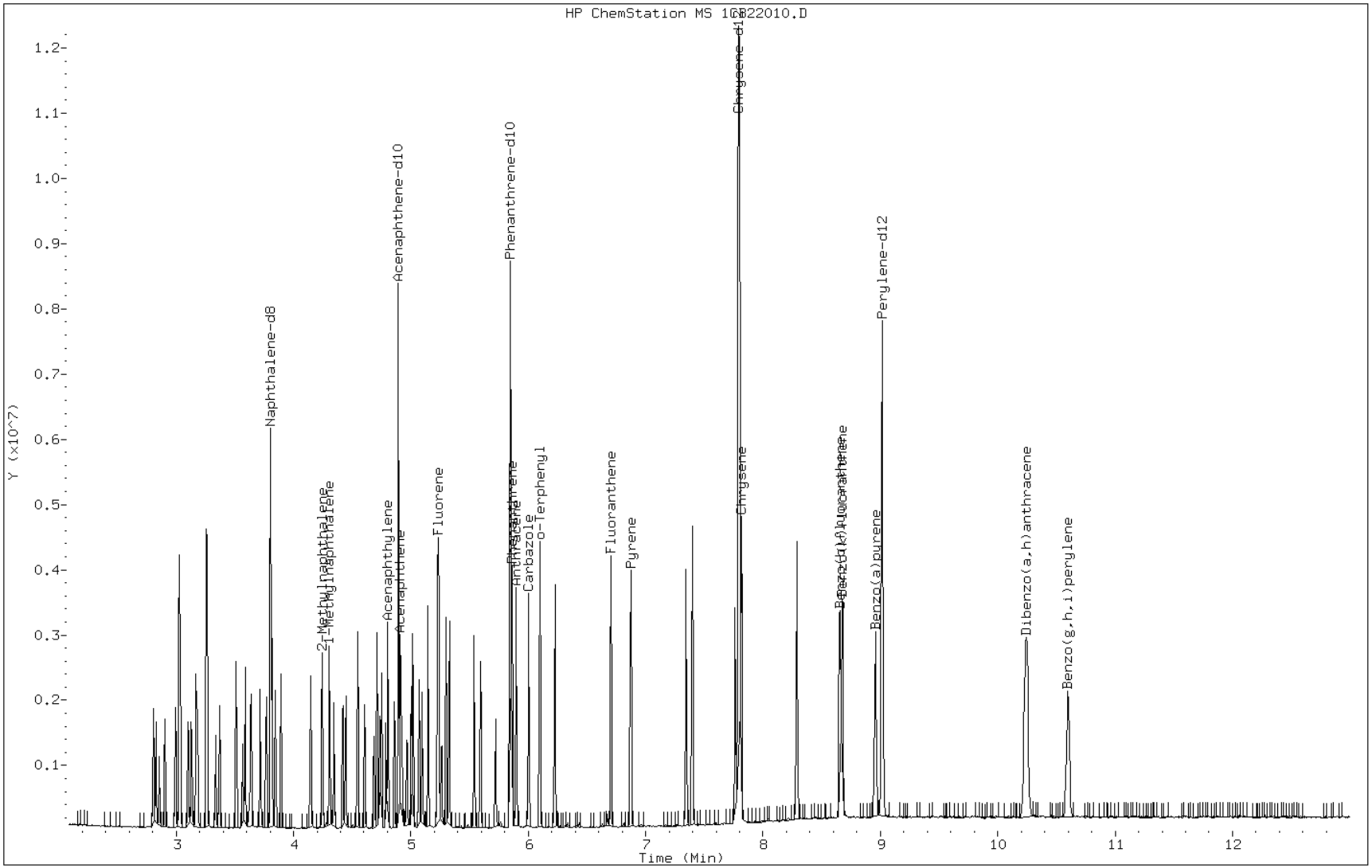
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

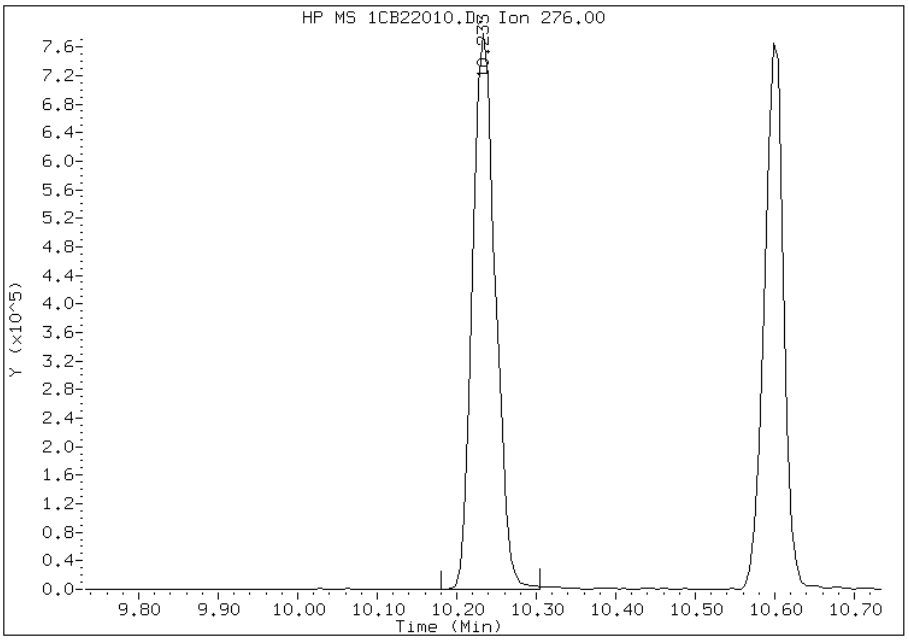
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



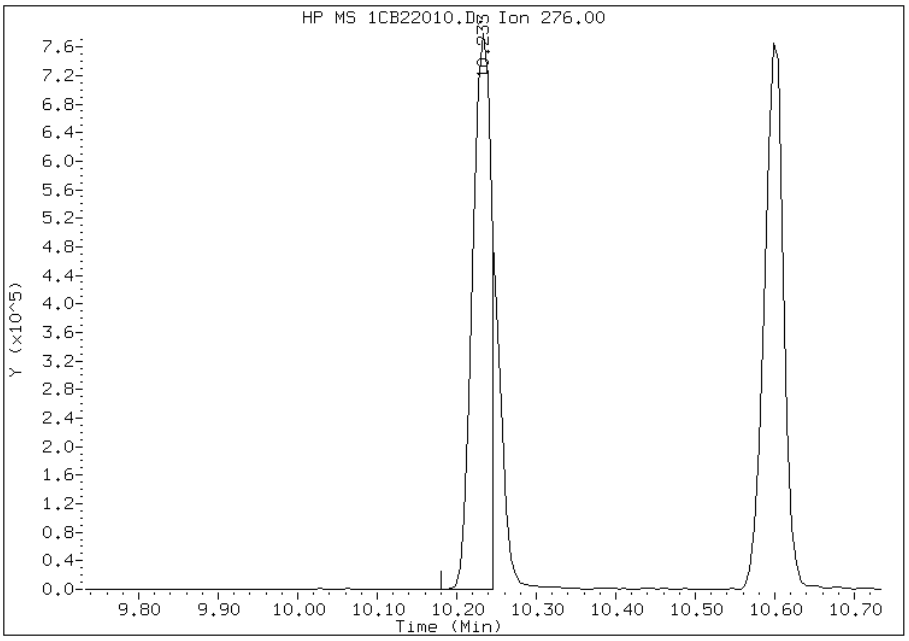
Manual Integration Results

RT: 10.23

Response: 1271997

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab Sample ID: CCVIS 660-135624/3 Calibration Date: 03/20/2013 10:36

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CC20003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.068	0.0000	20500	20000	2.5	20.0
2-Methylnaphthalene	Ave	0.6946	0.6948	0.0000	20000	20000	0.0	20.0
1-Methylnaphthalene	Ave	0.6326	0.6446	0.0000	20400	20000	1.9	20.0
Acenaphthylene	Ave	1.613	1.622	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	1.002	0.999	0.0000	19900	20000	-0.4	20.0
Fluorene	Ave	1.268	1.293	0.0000	20400	20000	2.0	20.0
Phenanthrene	Ave	1.157	1.124	0.0000	19400	20000	-2.8	20.0
Anthracene	Ave	1.131	1.174	0.0000	20800	20000	3.8	20.0
Carbazole	Ave	1.006	1.027	0.0000	20400	20000	2.1	20.0
Fluoranthene	Ave	1.267	1.278	0.0000	20200	20000	0.9	20.0
Pyrene	Ave	1.075	1.122	0.0000	20900	20000	4.4	20.0
Benzo[a]anthracene	Ave	1.154	1.093	0.0000	18900	20000	-5.3	20.0
Chrysene	Ave	1.155	1.101	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Ave	1.045	1.123	0.0000	21500	20000	7.4	20.0
Benzo[k]fluoranthene	Ave	1.072	1.063	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	1.015	1.057	0.0000	20800	20000	4.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.7665	0.0000	16000	20000	-19.8	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8396	0.0000	18000	20000	-10.1	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9106	0.0000	18200	20000	-8.9	20.0
o-Terphenyl	Ave	0.6039	0.5964	0.0000	19700	20000	-1.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 20-MAR-2013 10:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.745	3.745	(1.000) 962073	40.0000	(H)
*	6 Acenaphthene-d10	164	4.827	4.827	(1.000) 727466	40.0000	(H)
*	10 Phenanthrene-d10	188	5.780	5.780	(1.000) 1356725	40.0000	(H)
$	14 o-Terphenyl	230	6.027	6.027	(1.043) 404556	20.0000	19.7496(H)
*	18 Chrysene-d12	240	7.721	7.721	(1.000) 1690793	40.0000	(H)
*	23 Perylene-d12	264	8.909	8.909	(1.000) 1664033	40.0000	(H)
	2 Naphthalene	128	3.757	3.757	(1.003) 513541	20.0000	20.5035(H)
	3 2-Methylnaphthalene	142	4.180	4.180	(1.116) 334245	20.0000	20.0062(H)
	4 1-Methylnaphthalene	142	4.245	4.245	(1.133) 310082	20.0000	20.3785(H)
	5 Acenaphthylene	152	4.745	4.745	(0.983) 589919	20.0000	20.1137(H)
	7 Acenaphthene	154	4.851	4.851	(1.005) 363262	20.0000	19.9269(H)
	9 Fluorene	166	5.169	5.169	(1.071) 470310	20.0000	20.3996(H)
	11 Phenanthrene	178	5.792	5.792	(1.002) 762250	20.0000	19.4300(H)
	12 Anthracene	178	5.827	5.827	(1.008) 796613	20.0000	20.7628(H)
	13 Carbazole	167	5.933	5.933	(1.026) 696732	20.0000	20.4285(H)
	15 Fluoranthene	202	6.633	6.633	(1.148) 866815	20.0000	20.1762(H)
	16 Pyrene	202	6.798	6.798	(0.880) 948302	20.0000	20.8704(H)
	17 Benzo(a)anthracene	228	7.715	7.715	(0.999) 924419	20.0000	18.9431(H)
	19 Chrysene	228	7.739	7.739	(1.002) 930659	20.0000	19.0567(H)
	20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961) 934389	20.0000	21.4864(H)
	21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964) 884638	20.0000	19.8299(H)
	22 Benzo(a)pyrene	252	8.857	8.857	(0.994) 879197	20.0000	20.8140(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131) 637704	20.0000	16.0483(MH)
	25 Dibenzo(a,h)anthracene	278	10.098	10.098	(1.133) 698563	20.0000	17.9728(H)
	26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171) 757670	20.0000	18.2274(H)

QC Flag Legend

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

Data File: 1CC20003.D

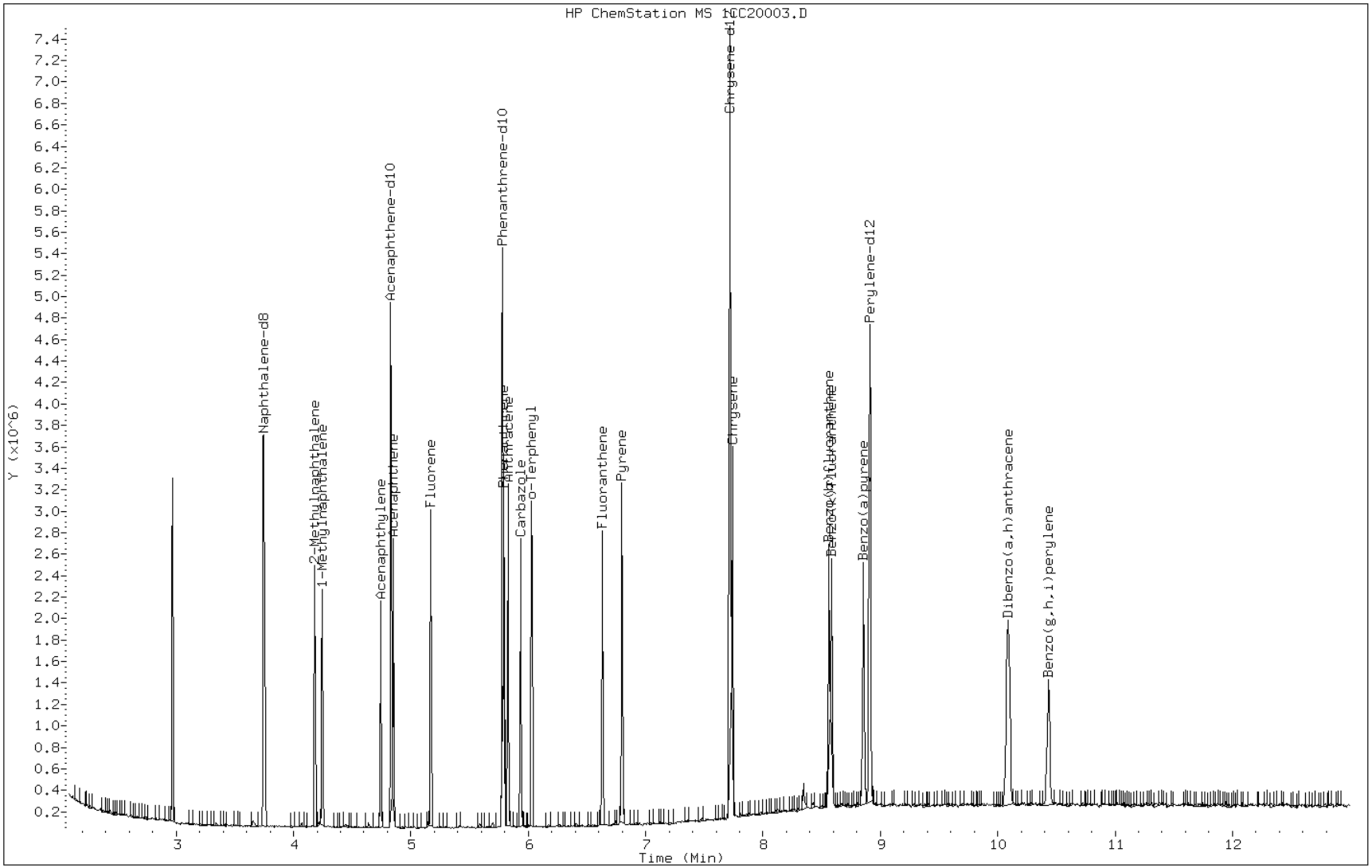
Date: 20-MAR-2013 10:36

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC



Manual Integration Report

Data File: 1CC20003.D
Inj. Date and Time: 20-MAR-2013 10:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

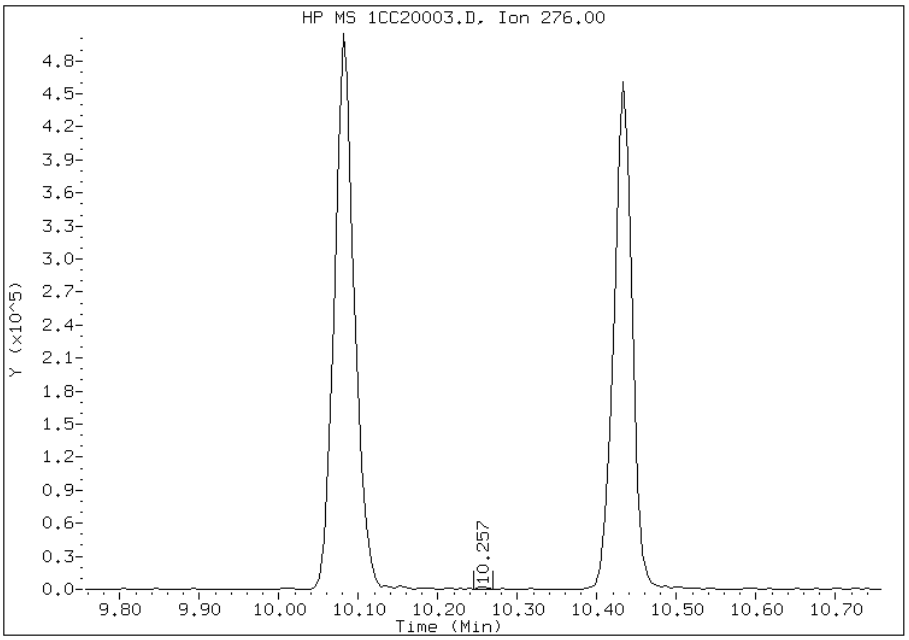
Processing Integration Results

RT: 10.26

Response: 1705

Amount: 0

Conc: 0



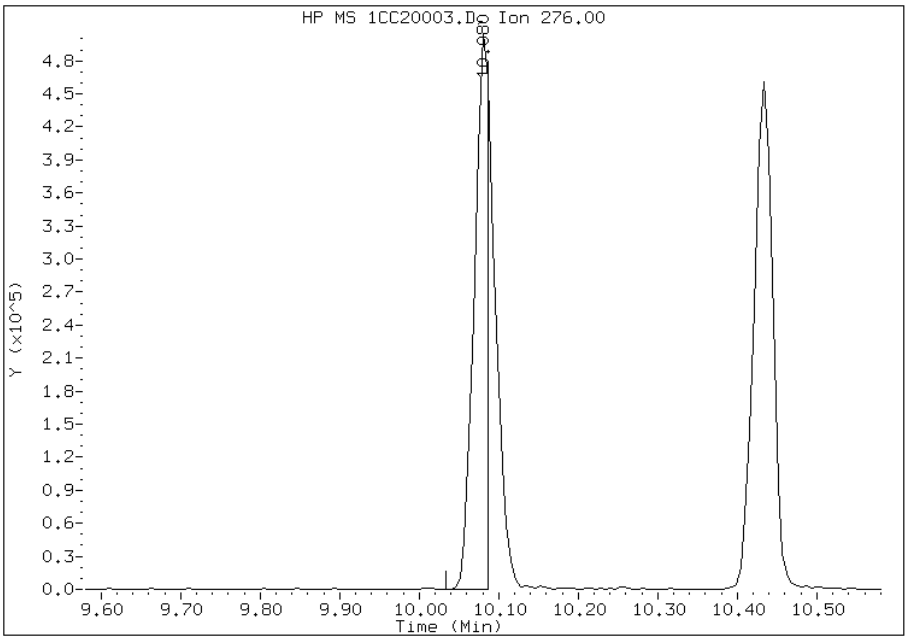
Manual Integration Results

RT: 10.08

Response: 637704

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 10:52
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab Sample ID: CCVIS 660-135643/4 Calibration Date: 03/21/2013 11:50

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CC21004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.042	0.0000	20000	20000	0.0	20.0
2-Methylnaphthalene	Ave	0.6946	0.7138	0.0000	20600	20000	2.8	20.0
1-Methylnaphthalene	Ave	0.6326	0.6683	0.0000	21100	20000	5.6	20.0
Acenaphthylene	Ave	1.613	1.622	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	1.002	0.9767	0.0000	19500	20000	-2.6	20.0
Fluorene	Ave	1.268	1.296	0.0000	20400	20000	2.2	20.0
Phenanthrene	Ave	1.157	1.140	0.0000	19700	20000	-1.4	20.0
Anthracene	Ave	1.131	1.132	0.0000	20000	20000	0.0	20.0
Carbazole	Ave	1.006	1.010	0.0000	20100	20000	0.4	20.0
Fluoranthene	Ave	1.267	1.270	0.0000	20000	20000	0.2	20.0
Pyrene	Ave	1.075	1.102	0.0000	20500	20000	2.5	20.0
Benzo[a]anthracene	Ave	1.154	1.054	0.0000	18300	20000	-8.7	20.0
Chrysene	Ave	1.155	1.041	0.0000	18000	20000	-9.9	20.0
Benzo[b]fluoranthene	Ave	1.045	1.007	0.0000	19300	20000	-3.6	20.0
Benzo[k]fluoranthene	Ave	1.072	1.124	0.0000	21000	20000	4.8	20.0
Benzo[a]pyrene	Ave	1.015	1.018	0.0000	20000	20000	0.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.999	0.0000	20900	20000	4.6	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8764	0.0000	18800	20000	-6.2	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9735	0.0000	19500	20000	-2.6	20.0
o-Terphenyl	Ave	0.6039	0.5978	0.0000	19800	20000	-1.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21004.D
Lab Smp Id: CCVIS-1512372
Inj Date : 21-MAR-2013 11:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.739	3.739	(1.000)	840044	40.0000	(H)
*	6 Acenaphthene-d10	164	4.827	4.827	(1.000)	651490	40.0000	(H)
*	10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1219756	40.0000	(H)
$	14 o-Terphenyl	230	6.027	6.027	(1.044)	364578	20.0000	19.7965(H)
*	18 Chrysene-d12	240	7.715	7.715	(1.000)	1556594	40.0000	(H)
*	23 Perylene-d12	264	8.898	8.898	(1.000)	1584646	40.0000	(H)
	2 Naphthalene	128	3.751	3.751	(1.003)	437723	20.0000	20.0152(H)
	3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	299817	20.0000	20.5524(H)
	4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	280685	20.0000	21.1261(H)
	5 Acenaphthylene	152	4.739	4.739	(0.982)	528374	20.0000	20.1162(H)
	7 Acenaphthene	154	4.845	4.845	(1.004)	318158	20.0000	19.4880
	9 Fluorene	166	5.162	5.162	(1.069)	422157	20.0000	20.4464(H)
	11 Phenanthrene	178	5.792	5.792	(1.003)	695478	20.0000	19.7187(H)
	12 Anthracene	178	5.821	5.821	(1.008)	690319	20.0000	20.0128(H)
	13 Carbazole	167	5.933	5.933	(1.028)	615983	20.0000	20.0890(H)
	15 Fluoranthene	202	6.627	6.627	(1.148)	774249	20.0000	20.0453(H)
	16 Pyrene	202	6.792	6.792	(0.880)	857546	20.0000	20.5001(H)
	17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	819981	20.0000	18.2516(H)
	19 Chrysene	228	7.733	7.733	(1.002)	810416	20.0000	18.0252(H)
	20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	798250	20.0000	19.2754(H)
	21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	890639	20.0000	20.9646(H)
	22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	806466	20.0000	20.0487(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.132)	791649	20.0000	20.9206(MH)
	25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.134)	694396	20.0000	18.7606(H)
	26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.171)	771294	20.0000	19.4847(H)

QC Flag Legend

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

Data File: 1CC21004.D

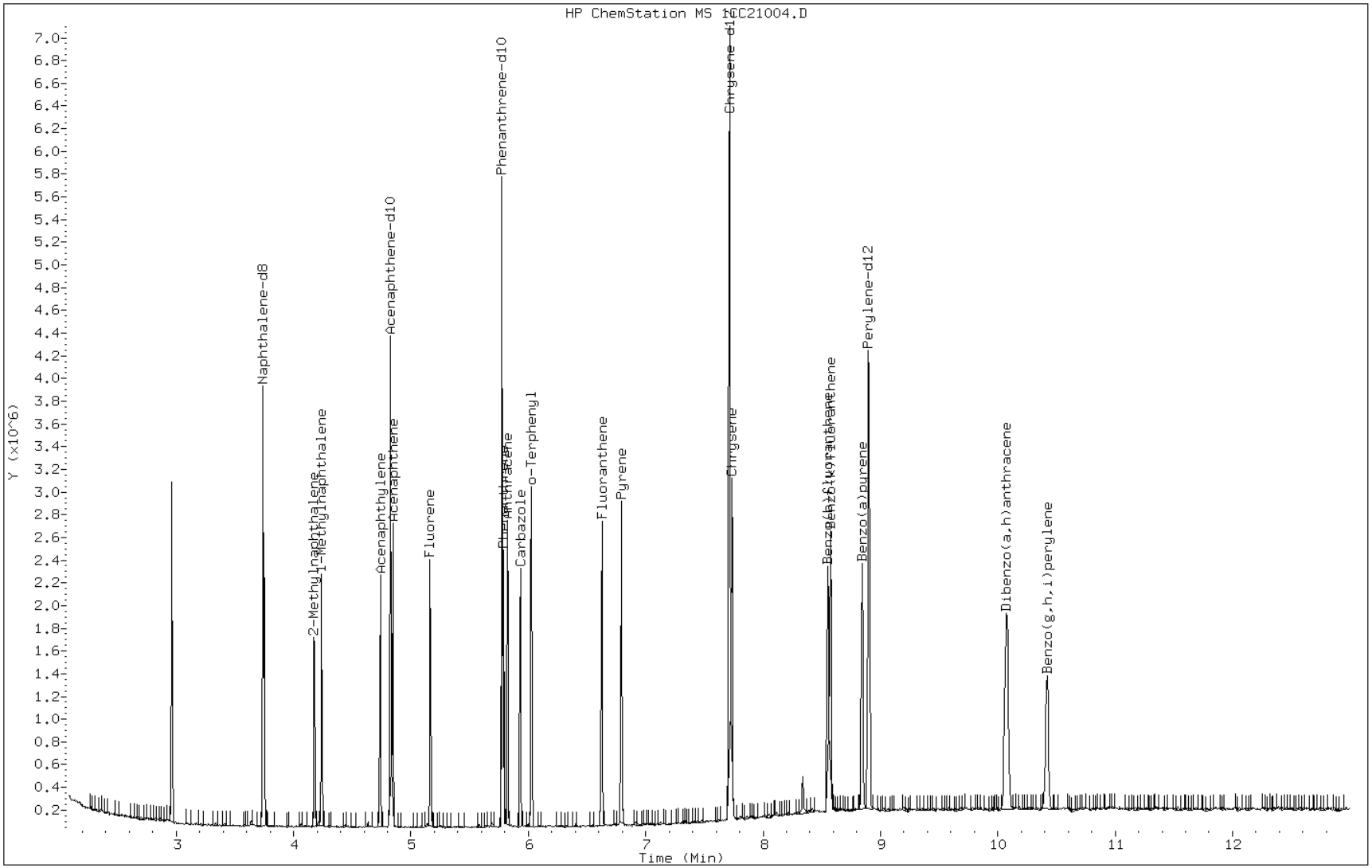
Date: 21-MAR-2013 11:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC



Manual Integration Report

Data File: 1CC21004.D
Inj. Date and Time: 21-MAR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

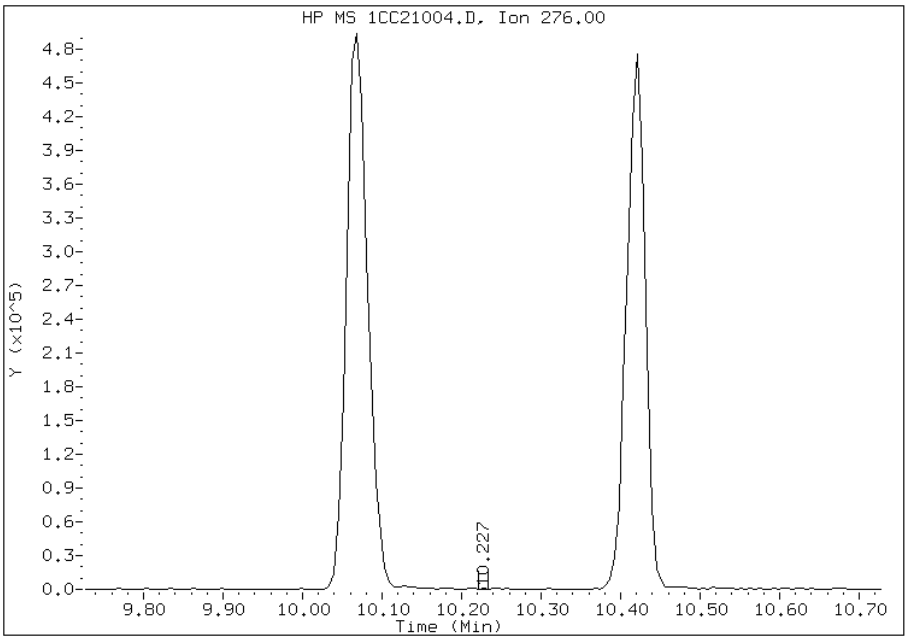
Processing Integration Results

RT: 10.23

Response: 461

Amount: 0

Conc: 0



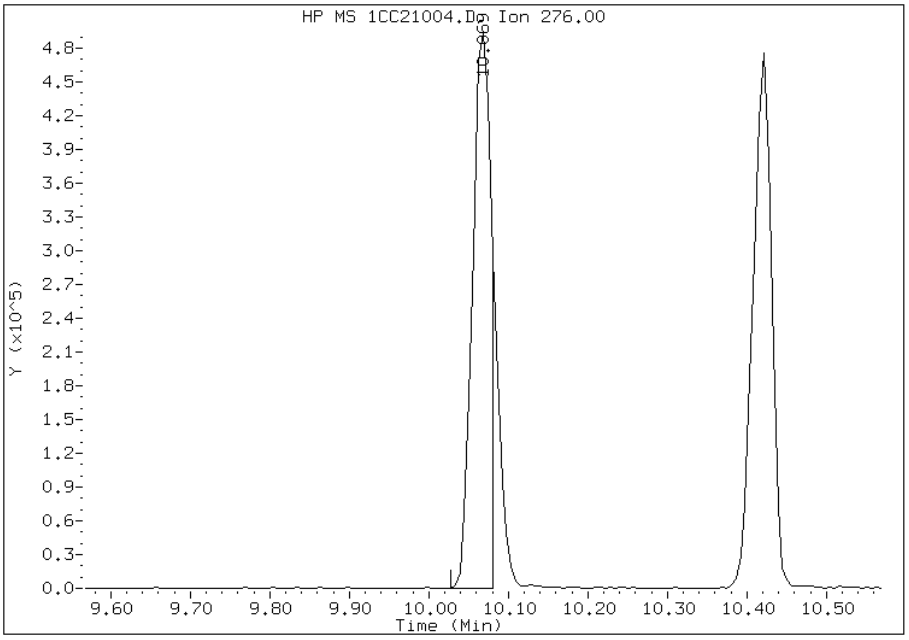
Manual Integration Results

RT: 10.07

Response: 791649

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	6.186	6.188	(1.000)	3227519	40.0000	
*	6 Acenaphthene-d10	164	7.861	7.856	(1.000)	1973397	40.0000	
*	9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3226971	40.0000	
$	13 o-Terphenyl	230	9.424	9.431	(1.034)	842705	16.8872	17
*	17 Chrysene-d12	240	11.463	11.464	(1.000)	3262056	40.0000	
*	22 Perylene-d12	264	13.343	13.344	(1.000)	3389756	40.0000	
	2 Naphthalene	128	6.204	6.205	(1.003)	1534495	17.7730	18
	3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	990529	18.0102	18
	4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	949525	18.4366	18
	5 Acenaphthylene	152	7.732	7.733	(0.984)	1522763	17.5026	18
	7 Acenaphthene	154	7.884	7.886	(1.003)	892518	16.8249	17
	8 Fluorene	166	8.325	8.326	(1.059)	1091870	17.6166	18
	10 Phenanthrene	178	9.136	9.137	(1.002)	1561459	17.0459	17
	11 Anthracene	178	9.177	9.184	(1.006)	1600546	17.4635	17
	12 Carbazole	167	9.324	9.313	(1.023)	1373599	16.7651	17(M)
	14 Fluoranthene	202	10.117	10.124	(1.110)	1683952	17.6156	18
	15 Pyrene	202	10.305	10.312	(0.899)	1697011	16.7712	17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

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

Data File: 1DB22010.D

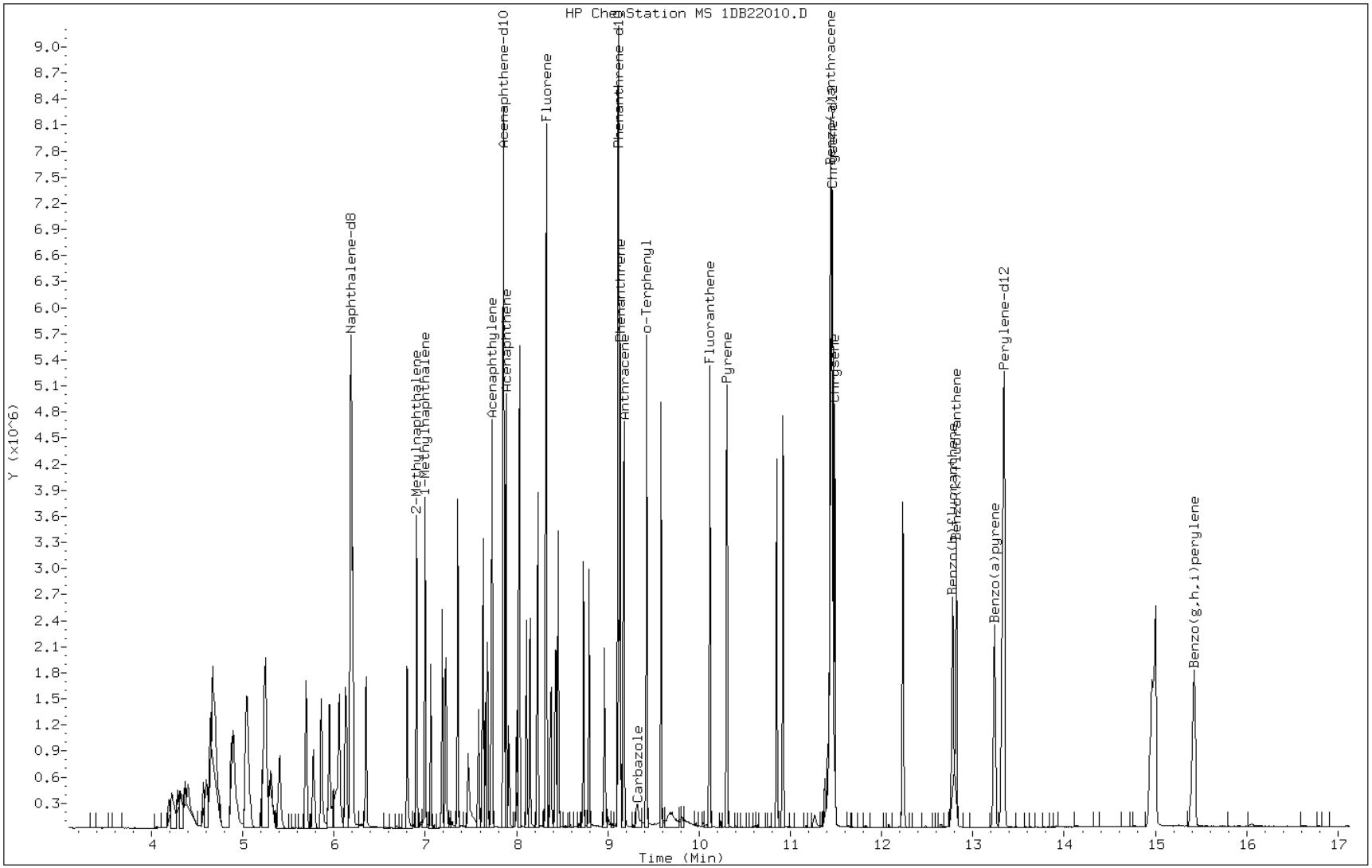
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

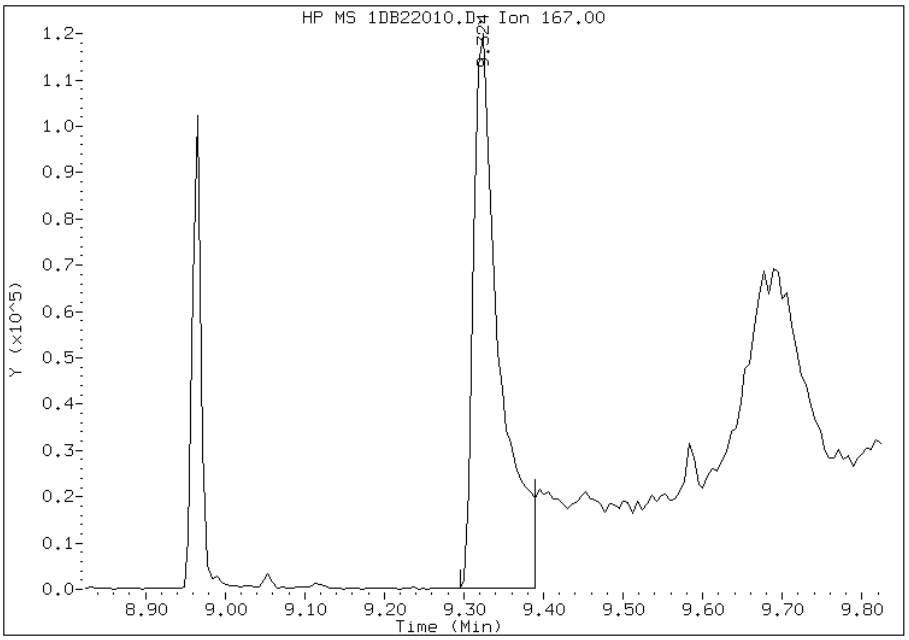
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



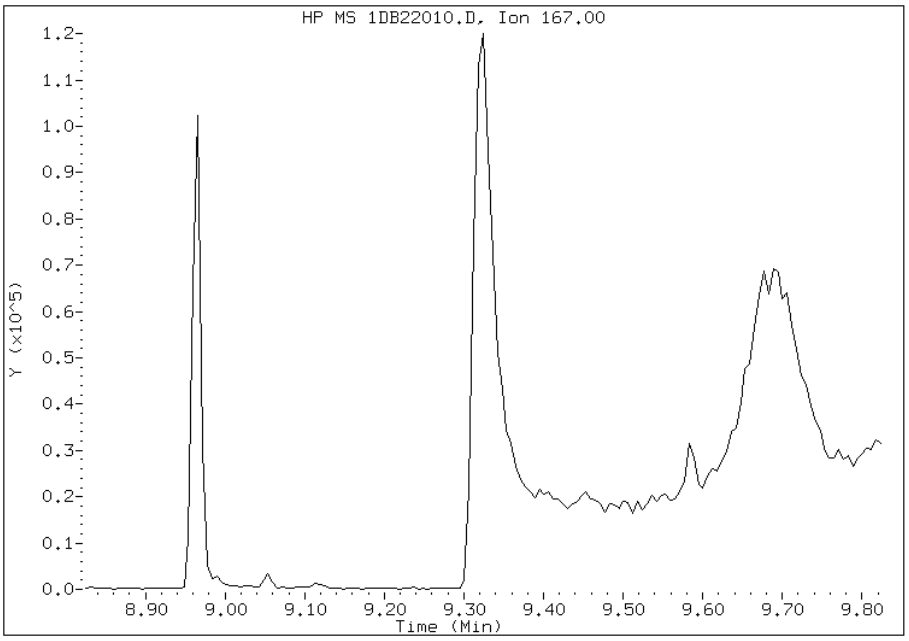
Manual Integration Results

RT: 9.32

Response: 1373599

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Lab Sample ID: CCVIS 660-135596/13 Calibration Date: 03/20/2013 15:54

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DC20012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.043	0.0000	19500	20000	-2.6	20.0
2-Methylnaphthalene	Ave	0.6816	0.6880	0.0000	20200	20000	0.9	20.0
1-Methylnaphthalene	Ave	0.6383	0.6668	0.0000	20900	20000	4.5	20.0
Acenaphthylene	Ave	1.764	1.725	0.0000	19600	20000	-2.2	20.0
Acenaphthene	Ave	1.075	1.038	0.0000	19300	20000	-3.5	20.0
Fluorene	Ave	1.256	1.217	0.0000	19400	20000	-3.1	20.0
Phenanthrene	Ave	1.135	1.091	0.0000	19200	20000	-3.9	20.0
Anthracene	Ave	1.136	1.104	0.0000	19400	20000	-2.8	20.0
Carbazole	Ave	1.016	0.9811	0.0000	19300	20000	-3.4	20.0
Fluoranthene	Ave	1.185	1.197	0.0000	20200	20000	1.0	20.0
Pyrene	Ave	1.241	1.209	0.0000	19500	20000	-2.6	20.0
Benzo[a]anthracene	LinF	1.184	1.074	0.0000	19600	20000	-1.9	20.0
Chrysene	Ave	1.131	1.081	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.030	1.028	0.0000	20000	20000	-0.2	20.0
Benzo[k]fluoranthene	Ave	1.078	1.018	0.0000	18900	20000	-5.6	20.0
Benzo[a]pyrene	Ave	1.019	1.015	0.0000	19900	20000	-0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.109	0.0000	20400	20000	2.0	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.014	0.0000	20200	20000	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.026	0.0000	19800	20000	-1.0	20.0
o-Terphenyl	Ave	0.6186	0.6522	0.0000	21100	20000	5.4	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20012.D
Lab Smp Id: CCVIS-1512372
Inj Date : 20-MAR-2013 15:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\dFASTPAHi.m
Meth Date : 20-Mar-2013 16:17 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 12 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	6.131	6.131	(1.000)	3011179	40.0000	(H)
*	6 Acenaphthene-d10	164	7.805	7.805	(1.000)	1969002	40.0000	(H)
*	9 Phenanthrene-d10	188	9.068	9.068	(1.000)	3237717	40.0000	(H)
$	13 o-Terphenyl	230	9.380	9.380	(1.034)	1055872	20.0000	21(H)
*	17 Chrysene-d12	240	11.413	11.413	(1.000)	3426351	40.0000	(H)
*	22 Perylene-d12	264	13.281	13.281	(1.000)	3678477	40.0000	(H)
	2 Naphthalene	128	6.154	6.154	(1.004)	1569741	20.0000	19(H)
	3 2-Methylnaphthalene	142	6.853	6.853	(1.118)	1035811	20.0000	20(H)
	4 1-Methylnaphthalene	142	6.947	6.947	(1.133)	1003970	20.0000	21(H)
	5 Acenaphthylene	152	7.682	7.682	(0.984)	1698338	20.0000	20(H)
	7 Acenaphthene	154	7.835	7.835	(1.004)	1021569	20.0000	19
	8 Fluorene	166	8.275	8.275	(1.060)	1198416	20.0000	19(H)
	10 Phenanthrene	178	9.092	9.092	(1.003)	1765756	20.0000	19(H)
	11 Anthracene	178	9.133	9.133	(1.007)	1787445	20.0000	19(H)
	12 Carbazole	167	9.268	9.268	(1.022)	1588273	20.0000	19
	14 Fluoranthene	202	10.073	10.073	(1.111)	1938345	20.0000	20(H)
	15 Pyrene	202	10.261	10.261	(0.899)	2070893	20.0000	19(H)
	16 Benzo(a)anthracene	228	11.389	11.389	(0.998)	1840772	20.0000	20(H)
	18 Chrysene	228	11.436	11.436	(1.002)	1851809	20.0000	19(H)
	19 Benzo(b)fluoranthene	252	12.723	12.723	(0.958)	1890305	20.0000	20(H)
	20 Benzo(k)fluoranthene	252	12.764	12.764	(0.961)	1872146	20.0000	19(H)
	21 Benzo(a)pyrene	252	13.181	13.181	(0.992)	1865900	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.903	14.903	(1.122)	2039884	20.0000	20(MH)
	24 Dibenzo(a,h)anthracene	278	14.932	14.932	(1.124)	1865583	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.361	15.361	(1.157)	1887553	20.0000	20(H)

QC Flag Legend

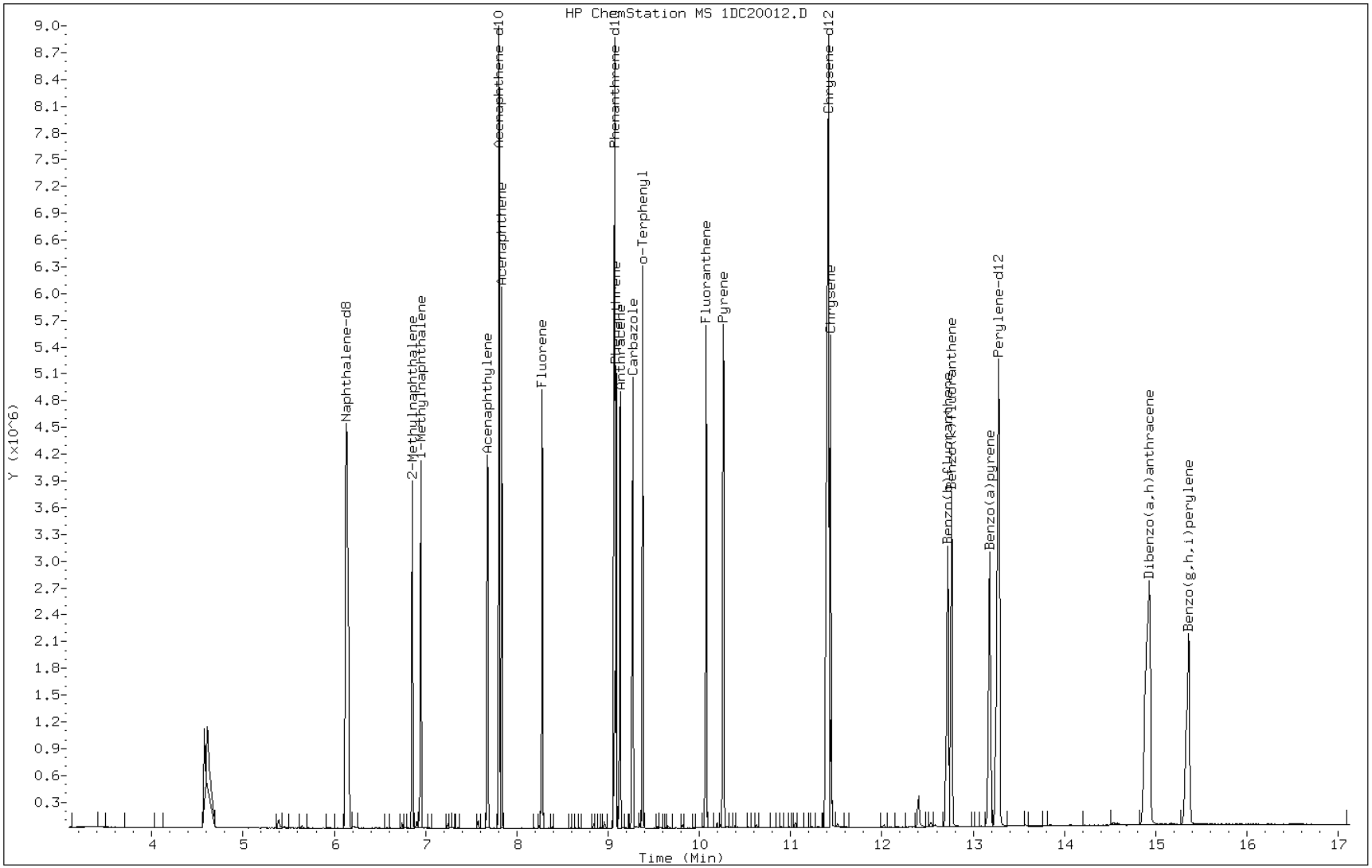
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC20012.D

Date: 20-MAR-2013 15:54

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1DC20012.D
Inj. Date and Time: 20-MAR-2013 15:54
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

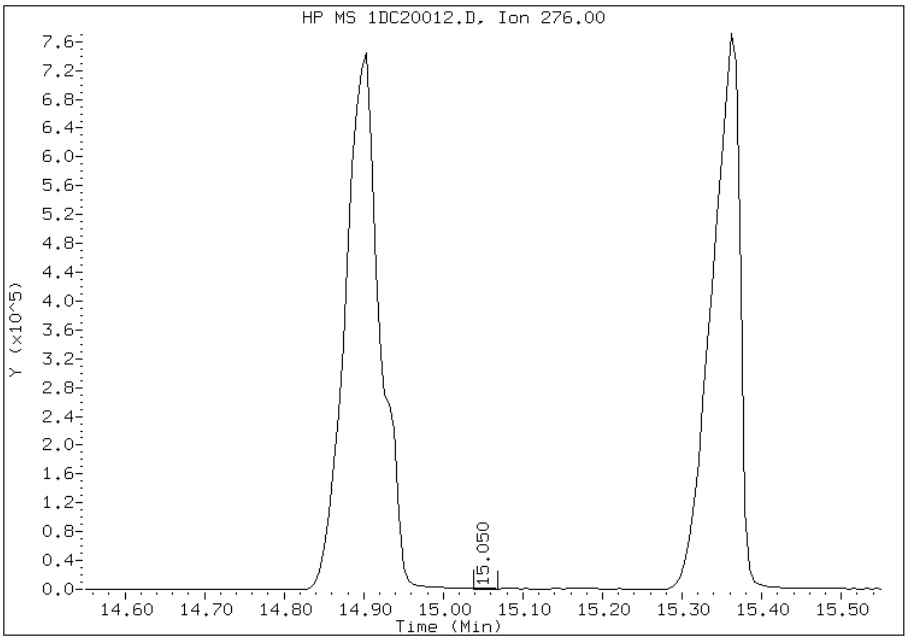
Processing Integration Results

RT: 15.05

Response: 987

Amount: 0

Conc: 0



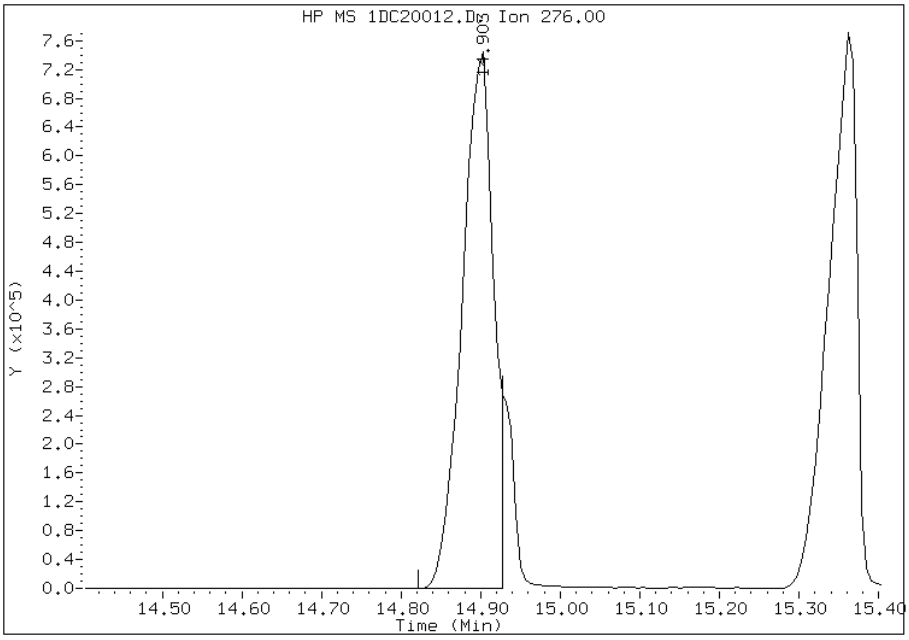
Manual Integration Results

RT: 14.90

Response: 2039884

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:18
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00- 0.00	59.25
7.404	7.469	-0.065	70	192			0.00- 2.00	0.44
7.404	7.469	-0.065	127	39368			10.00- 80.00	53.61
7.404	7.469	-0.065	197	733			0.00- 2.00	1.00
7.404	7.469	-0.065	442	38240			50.00- 0.00	52.07
7.404	7.469	-0.065	199	6330			5.00- 9.00	8.62
7.404	7.469	-0.065	275	14104			10.00- 60.00	19.20
7.404	7.469	-0.065	365	1462			1.00- 0.00	1.99
7.404	7.469	-0.065	441	5496			0.01- 99.99	86.06
7.404	7.469	-0.065	443	6386			15.00- 24.00	16.70

Data File: 1CB22002.D

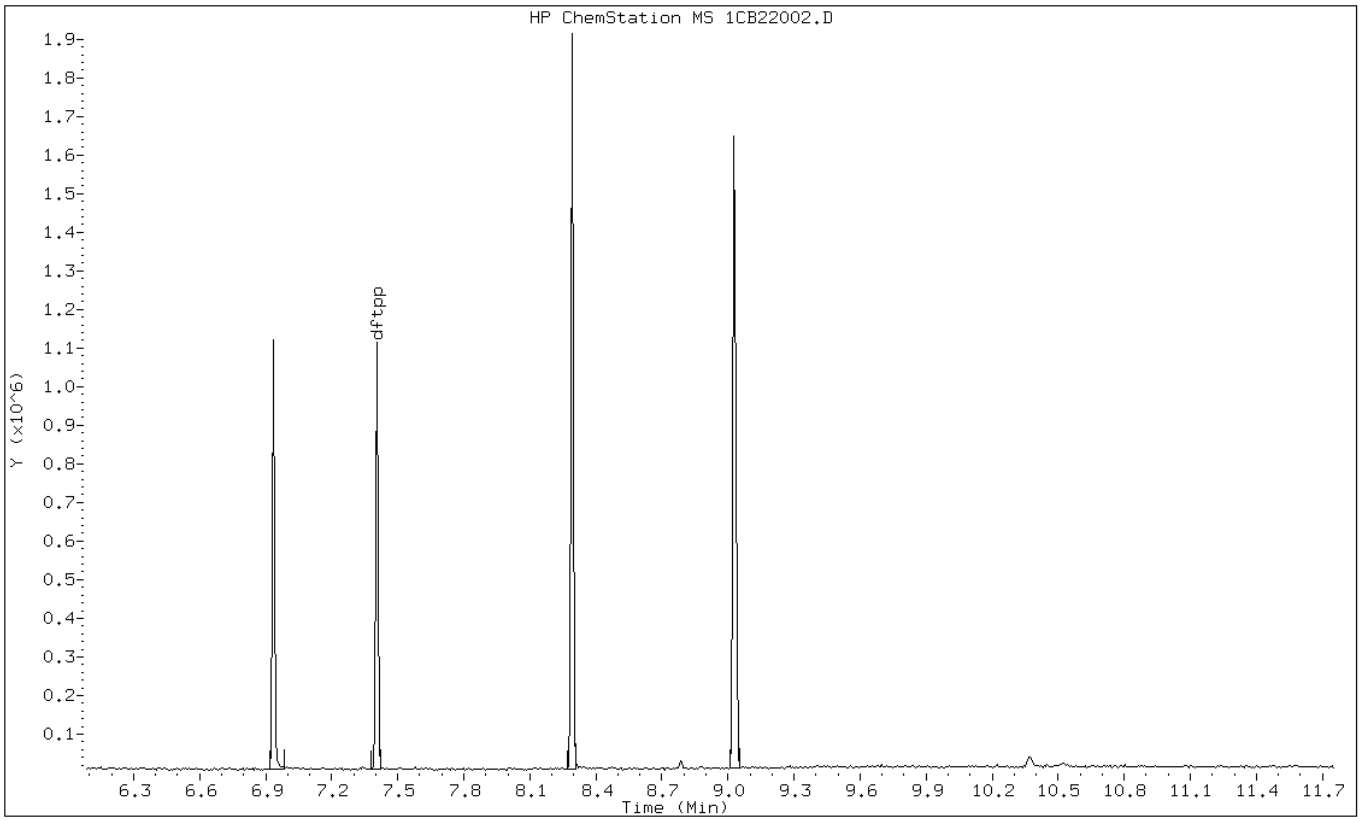
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



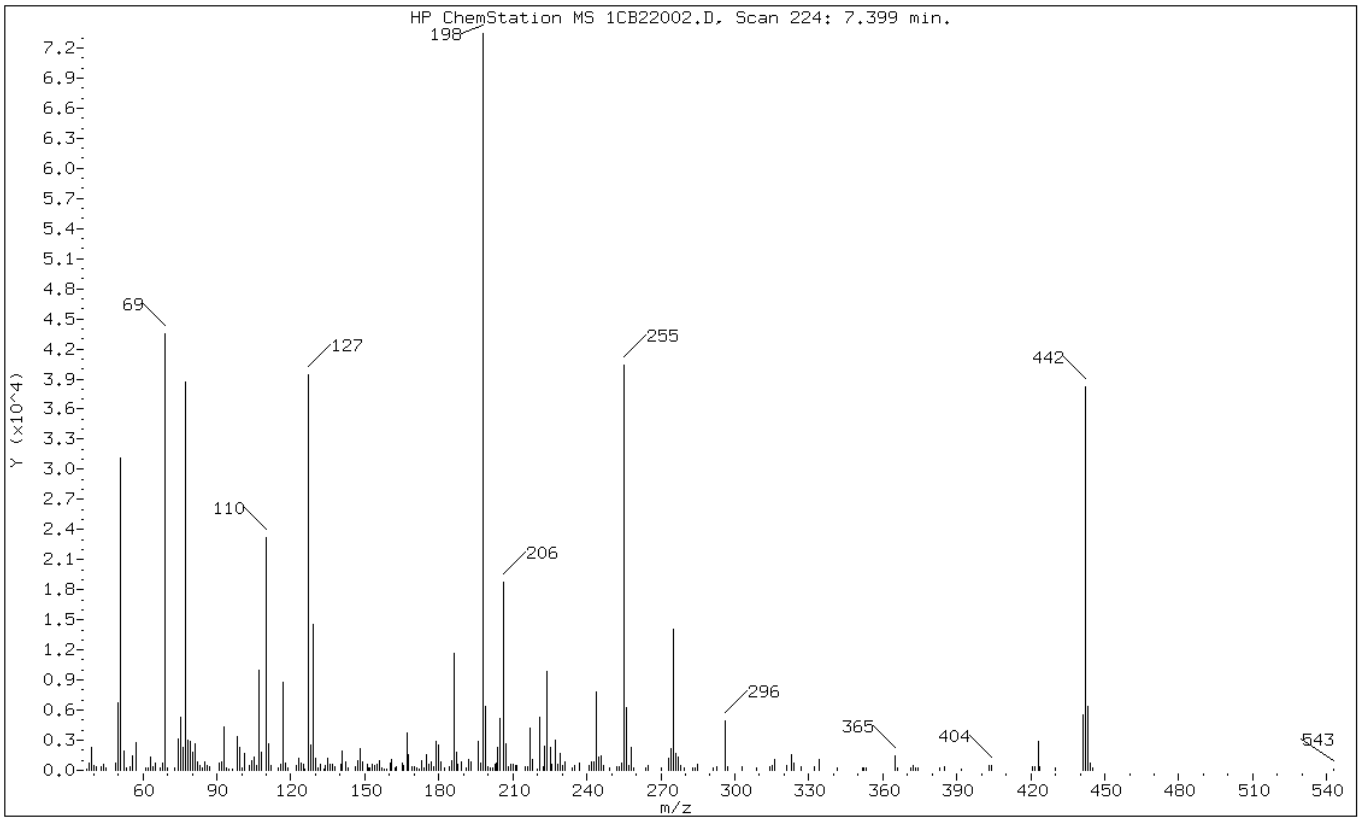
Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D
Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 20-MAR-2013 10:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.339	7.469	-0.130	198	93056			50.00- 0.00	100.00
7.339	7.469	-0.130	51	39672			10.00- 80.00	42.63
7.339	7.469	-0.130	68	940			0.00- 2.00	1.89
7.339	7.469	-0.130	69	49616			0.00- 0.00	53.32
7.339	7.469	-0.130	70	0	0.0	0.0	0.00- 2.00	0.00
7.339	7.469	-0.130	127	49624			10.00- 80.00	53.33
7.339	7.469	-0.130	197	1106			0.00- 2.00	1.19
7.339	7.469	-0.130	442	49872			50.00- 0.00	53.59
7.339	7.469	-0.130	199	6856			5.00- 9.00	7.37
7.339	7.469	-0.130	275	16528			10.00- 60.00	17.76
7.339	7.469	-0.130	365	3190			1.00- 0.00	3.43
7.339	7.469	-0.130	441	6828			0.01- 99.99	77.43
7.339	7.469	-0.130	443	8818			15.00- 24.00	17.68

Data File: 1CC20002.D

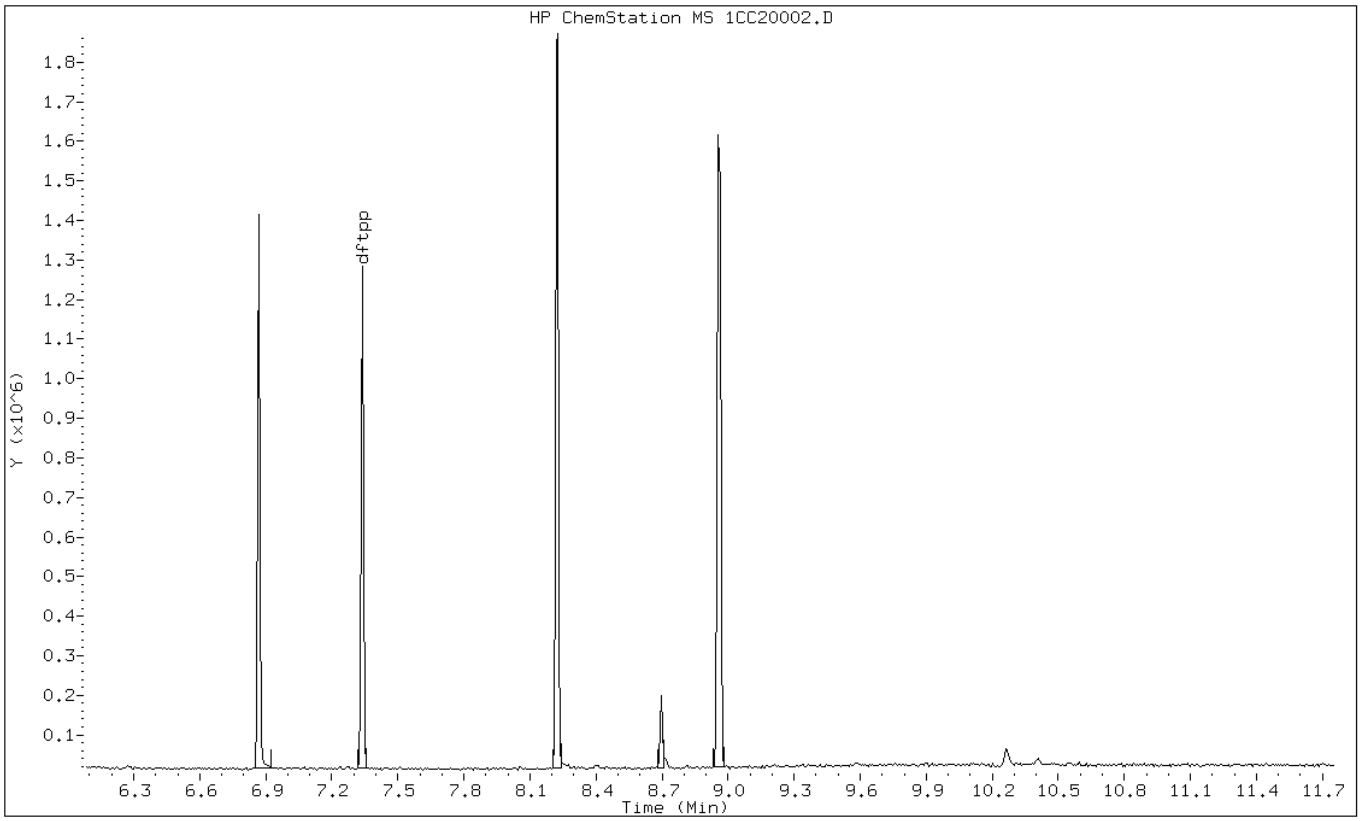
Date: 20-MAR-2013 10:19

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



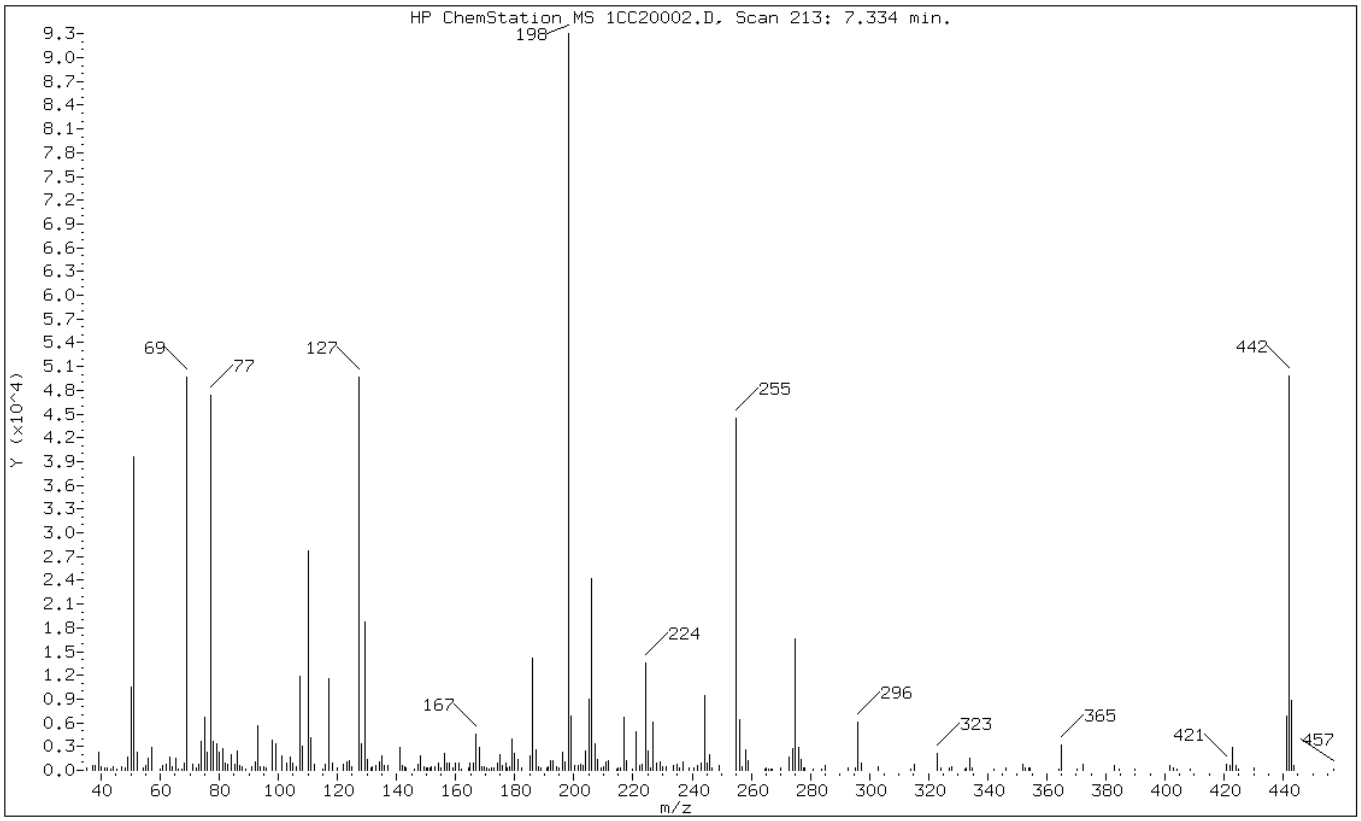
Data File: 1CC20002.D

Date: 20-MAR-2013 10:19

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.63
68	Less than 2.00% of mass 69	1.01 (1.89)
69	Mass 69 relative abundance	53.32
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	53.33
197	Less than 2.00% of mass 198	1.19
442	Greater than 50.00% of mass 198	53.59
199	5.00 - 9.00% of mass 198	7.37
275	10.00 - 60.00% of mass 198	17.76
365	Greater than 1.00% of mass 198	3.43
441	Present, but less than mass 443	7.34
443	15.00 - 24.00% of mass 442	9.48 (17.68)

Data File: 1CC20002.D

Date: 20-MAR-2013 10:19

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20002.D
Spectrum: HP ChemStation MS 1CC20002.D, Scan 213: 7.334 min.
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	325	110.10	27784	181.00	1339	259.10	1182
37.00	553	111.10	4099	182.10	234	264.70	215
38.10	674	112.10	740	185.10	1825	265.10	282
39.20	2339	115.00	185	186.10	14098	266.00	163
40.00	434	116.00	713	187.00	2589	266.60	182
41.10	341	117.00	11557	188.20	388	267.10	209
42.10	243	118.10	941	188.80	347	269.80	333
43.10	199	120.10	325	190.80	343	273.00	1727
44.00	430	122.10	706	191.40	483	274.10	2791
45.10	180	123.00	1026	192.00	1217	275.00	16528
46.90	453	124.10	1287	193.00	1187	276.00	2935
48.00	288	125.00	524	194.10	394	277.00	1417
49.10	1632	127.10	49624	195.00	331	277.80	350
50.10	10503	128.10	3385	196.00	2350	278.20	269
51.10	39672	129.10	18776	197.00	1106	281.10	151
52.10	2278	130.10	1383	198.00	93056	283.70	204
54.10	241	131.20	258	199.00	6856	284.90	685
55.00	677	131.90	419	200.30	599	292.70	364
56.00	1454	132.80	562	201.40	614	295.20	311
57.10	2911	134.20	1050	202.20	743	296.00	6020
60.10	162	135.10	1836	202.90	612	297.10	968
60.90	572	135.80	684	204.00	2398	303.00	406
62.00	737	137.20	589	205.10	8983	313.90	211
63.10	1619	141.10	2819	206.00	24144	315.10	785
64.10	480	141.90	538	207.10	3314	323.00	2105
65.10	1505	142.80	387	207.90	1325	324.00	337
66.00	160	143.20	354	209.00	371	327.00	357
67.20	163	145.80	167	210.20	531	327.80	387
68.10	940	147.20	783	210.70	1125	332.20	228
69.00	49616	148.00	1837	211.60	1204	332.90	268
71.10	758	149.10	421	214.70	156	334.00	1470
72.10	353	150.10	237	215.10	260	334.80	285
72.90	792	150.60	304	215.90	372	342.00	202
74.00	3699	151.10	243	217.00	6720	346.00	378
75.10	6630	151.60	463	217.90	1152	352.00	758
76.00	2302	153.10	473	220.00	188	352.80	260
77.10	47368	154.20	889	221.00	4919	353.80	380
78.10	3683	155.00	298	222.10	666	354.50	230
79.10	3314	156.10	2070	222.90	698	364.20	211
80.10	2322	157.00	907	224.10	13584	365.00	3190

81.00	2732	158.00	988	225.00	2430	370.10	198
82.00	872	159.20	337	225.90	247	372.10	790
83.00	771	160.00	886	226.90	6055	382.90	646
83.90	1959	160.90	912	228.10	988	384.60	165
85.10	811	161.80	198	229.10	1137	389.80	163
85.90	2486	164.20	269	230.10	383	401.70	654
87.00	537	164.90	922	231.10	523	402.90	257
87.90	414	166.00	923	233.80	591	404.00	160
88.80	164	166.90	4540	235.00	790	408.50	157
90.80	497	168.00	2849	235.80	355	421.00	770
92.10	1006	168.90	459	237.00	1058	422.10	605
93.00	5618	169.80	470	238.90	301	422.90	2828
94.00	401	170.60	254	240.70	323	424.00	604
95.10	474	171.20	194	242.00	610	424.90	177
96.00	252	172.00	308	243.10	885	430.10	236
98.00	3789	172.80	376	244.10	9496	441.00	6828
99.10	3288	174.10	961	245.00	952	442.10	49872
101.00	1776	175.10	1981	245.90	2046	443.00	8818
102.80	881	175.90	570	246.90	377	443.80	642
104.00	1616	176.80	972	249.00	588	457.10	151
105.00	906	177.50	303	255.00	44536		
105.90	418	178.30	496	256.00	6471		
107.10	11889	179.00	3951	257.10	521		
108.10	3027	180.00	2170	258.00	2623		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-MAR-2013 11:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

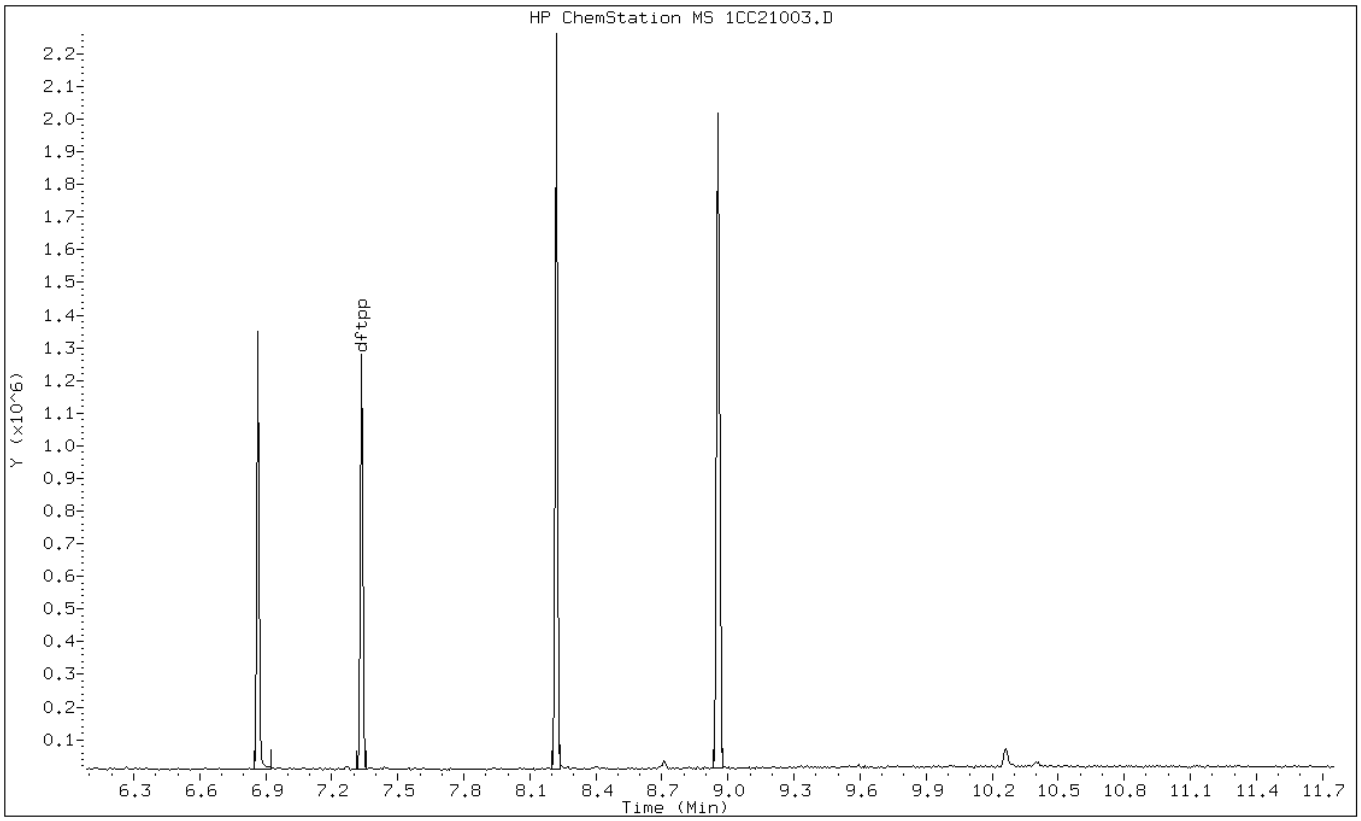
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.333	7.469	-0.136	198	153344			50.00- 0.00	100.00
7.333	7.469	-0.136	51	51408			10.00- 80.00	33.52
7.333	7.469	-0.136	68	926			0.00- 2.00	1.31
7.333	7.469	-0.136	69	70728			0.00- 0.00	46.12
7.333	7.469	-0.136	70	260			0.00- 2.00	0.37
7.333	7.469	-0.136	127	64272			10.00- 80.00	41.91
7.333	7.469	-0.136	197	0	0.0	0.0	0.00- 2.00	0.00
7.333	7.469	-0.136	442	112688			50.00- 0.00	73.49
7.333	7.469	-0.136	199	9425			5.00- 9.00	6.15
7.333	7.469	-0.136	275	32776			10.00- 60.00	21.37
7.333	7.469	-0.136	365	4110			1.00- 0.00	2.68
7.333	7.469	-0.136	441	15888			0.01- 99.99	69.98
7.333	7.469	-0.136	443	22704			15.00- 24.00	20.15

Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC



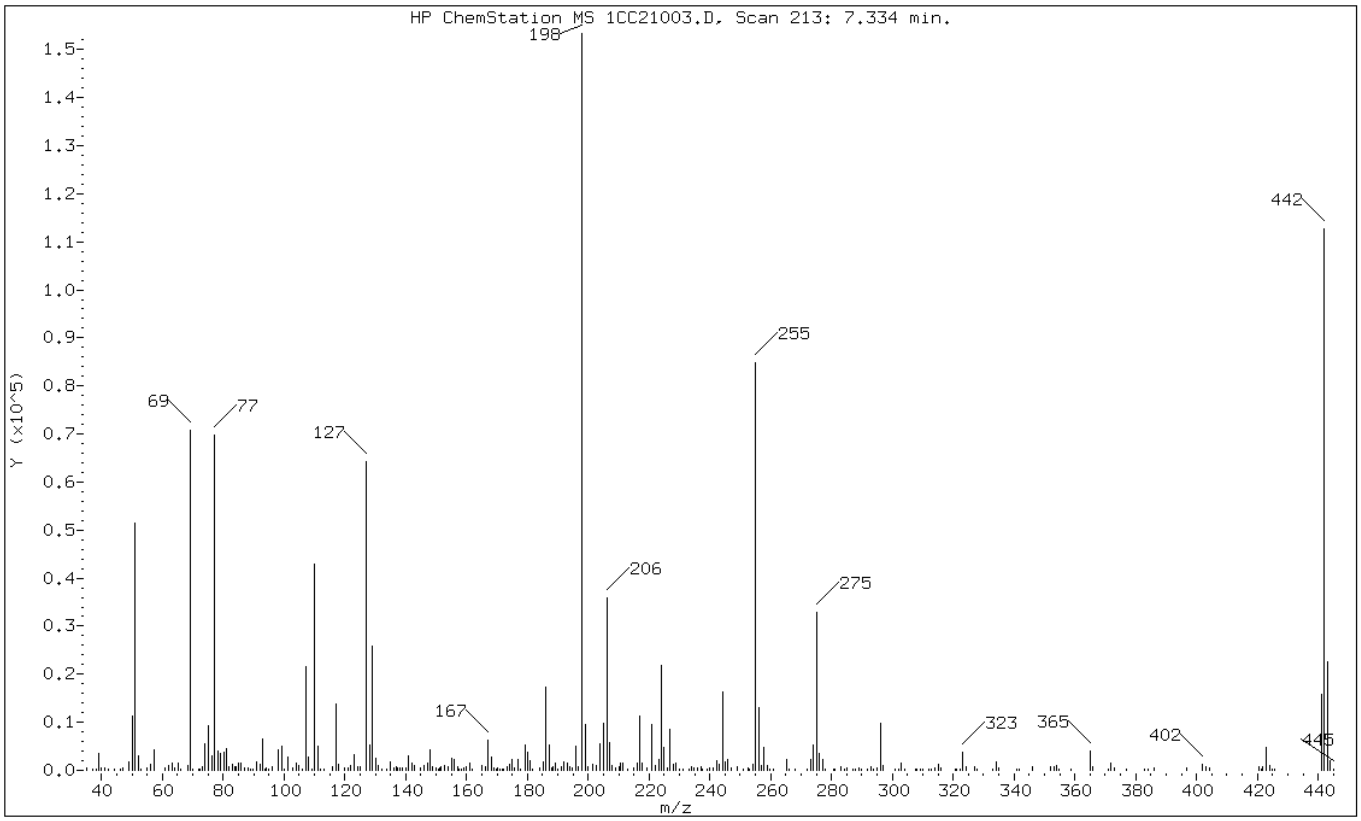
Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.52
68	Less than 2.00% of mass 69	0.60 (1.31)
69	Mass 69 relative abundance	46.12
70	Less than 2.00% of mass 69	0.17 (0.37)
127	10.00 - 80.00% of mass 198	41.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.49
199	5.00 - 9.00% of mass 198	6.15
275	10.00 - 60.00% of mass 198	21.37
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	10.36
443	15.00 - 24.00% of mass 442	14.81 (20.15)

Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21003.D
Spectrum: HP ChemStation MS 1CC21003.D, Scan 213: 7.334 min.
Location of Maximum: 198.00
Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	388	120.00	463	193.20	1544	280.80	245
37.00	271	121.10	467	193.80	786	281.20	158
38.20	230	122.00	1103	194.90	438	283.10	772
39.10	3419	123.00	3178	196.00	5138	284.20	158
40.00	576	124.10	652	196.60	749	285.10	440
41.00	492	125.10	862	198.00	153344	287.10	205
42.30	172	127.10	64272	199.00	9425	287.80	243
44.10	335	128.00	5157	200.00	791	288.90	392
46.30	215	129.00	25792	201.50	1150	289.80	282
47.00	505	130.00	2608	202.80	1041	291.80	190
49.10	1839	131.00	892	204.00	5517	293.00	876
50.10	11248	132.10	342	205.00	9884	293.70	315
51.10	51408	133.90	265	206.10	35936	294.90	469
52.10	2955	135.00	1773	207.10	5865	296.00	9727
52.90	349	136.10	573	208.00	883	296.90	943
55.10	409	136.90	722	209.00	546	300.80	280
56.10	1268	137.40	518	210.00	665	302.00	157
57.10	4247	137.90	457	210.60	1414	303.00	1428
61.00	421	139.00	423	211.20	1382	304.00	245
62.00	889	140.10	585	213.00	206	307.70	156
63.10	1394	141.00	2963	215.00	597	308.10	176
64.10	506	142.00	1550	216.20	1385	309.10	172
65.10	1550	143.00	934	217.00	11206	310.00	200
66.00	241	144.90	383	217.90	1428	312.00	200
68.20	926	145.90	924	219.30	408	312.80	251
69.00	70728	147.10	1495	221.00	9473	314.10	565
70.10	260	148.00	4142	222.00	929	315.00	1312
71.90	191	148.90	705	223.10	2174	316.10	469
72.50	157	150.00	533	224.00	21760	320.60	338
73.10	783	150.60	354	225.00	4667	321.00	354
74.10	5420	151.30	575	226.10	578	322.20	189
75.10	9232	151.70	733	227.00	8431	323.10	3744
76.20	3050	152.80	960	228.00	1329	324.20	739
77.10	69880	153.90	797	228.90	1502	327.10	708
78.10	4026	155.10	2411	230.00	295	327.90	298
79.00	3626	156.10	2227	231.10	295	332.90	233
80.10	3698	157.10	875	233.00	301	334.10	1694
81.10	4502	157.70	209	233.90	872	335.10	400
82.00	793	158.10	266	234.90	537	341.10	217
83.00	1195	158.90	573	235.90	441	341.60	225

83.90	774	159.90	716	237.00	738	346.00	718
84.10	778	161.00	1503	237.70	172	351.90	652
85.00	1602	161.90	177	239.10	280	353.00	641
85.90	1440	165.00	980	239.90	406	354.00	971
86.90	482	166.30	862	240.90	381	354.60	168
88.00	483	167.00	6213	242.10	1996	358.90	219
88.90	330	168.20	2789	243.00	1184	365.10	4110
89.60	164	169.00	558	244.10	16384	365.90	860
91.10	1689	169.80	286	245.00	1694	371.00	168
92.10	1353	170.20	400	246.00	2184	372.00	1421
93.00	6440	171.00	219	247.10	426	373.20	494
93.80	223	171.70	256	249.10	726	377.00	174
94.20	384	172.10	218	250.90	201	383.00	325
95.10	248	173.20	638	252.60	407	384.00	257
96.00	682	174.10	1258	253.00	346	385.90	417
98.00	4177	175.10	2222	254.10	1216	396.90	402
99.10	4929	175.90	494	255.00	84872	401.90	1264
100.00	342	177.10	2171	256.00	12985	403.10	799
101.10	2769	177.80	221	256.90	940	404.20	406
103.00	494	179.10	5179	257.90	4889	420.70	689
104.10	1450	180.10	3709	259.00	912	421.30	221
105.00	927	181.00	2098	259.90	204	421.90	726
106.00	347	181.80	264	260.80	285	423.00	4851
107.10	21688	184.10	543	265.10	2165	424.10	927
108.00	2864	185.10	1859	265.90	350	424.70	221
109.00	359	186.00	17328	268.00	153	425.70	155
110.00	42824	187.10	5310	272.10	151	441.00	15888
111.00	5053	187.90	553	273.00	2311	442.00	112688
112.00	264	188.30	650	274.00	5251	443.00	22704
113.10	346	189.00	1611	275.00	32776	444.00	2016
115.90	862	189.90	279	275.90	3495	445.10	241
117.10	13707	191.10	793	277.00	2142		
118.00	1133	192.00	1742	277.80	356		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 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		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	69	46864			0.00- 0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	127	51248			10.00- 80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	442	64976			50.00- 0.00	64.54
8.477	8.532	-0.055	199	7983			5.00- 9.00	7.93
8.477	8.532	-0.055	275	25312			10.00- 60.00	25.14
8.477	8.532	-0.055	365	2913			1.00- 0.00	2.89
8.477	8.532	-0.055	441	10444			0.01- 99.99	78.40
8.477	8.532	-0.055	443	13322			15.00- 24.00	20.50

Data File: 1DB22002.D

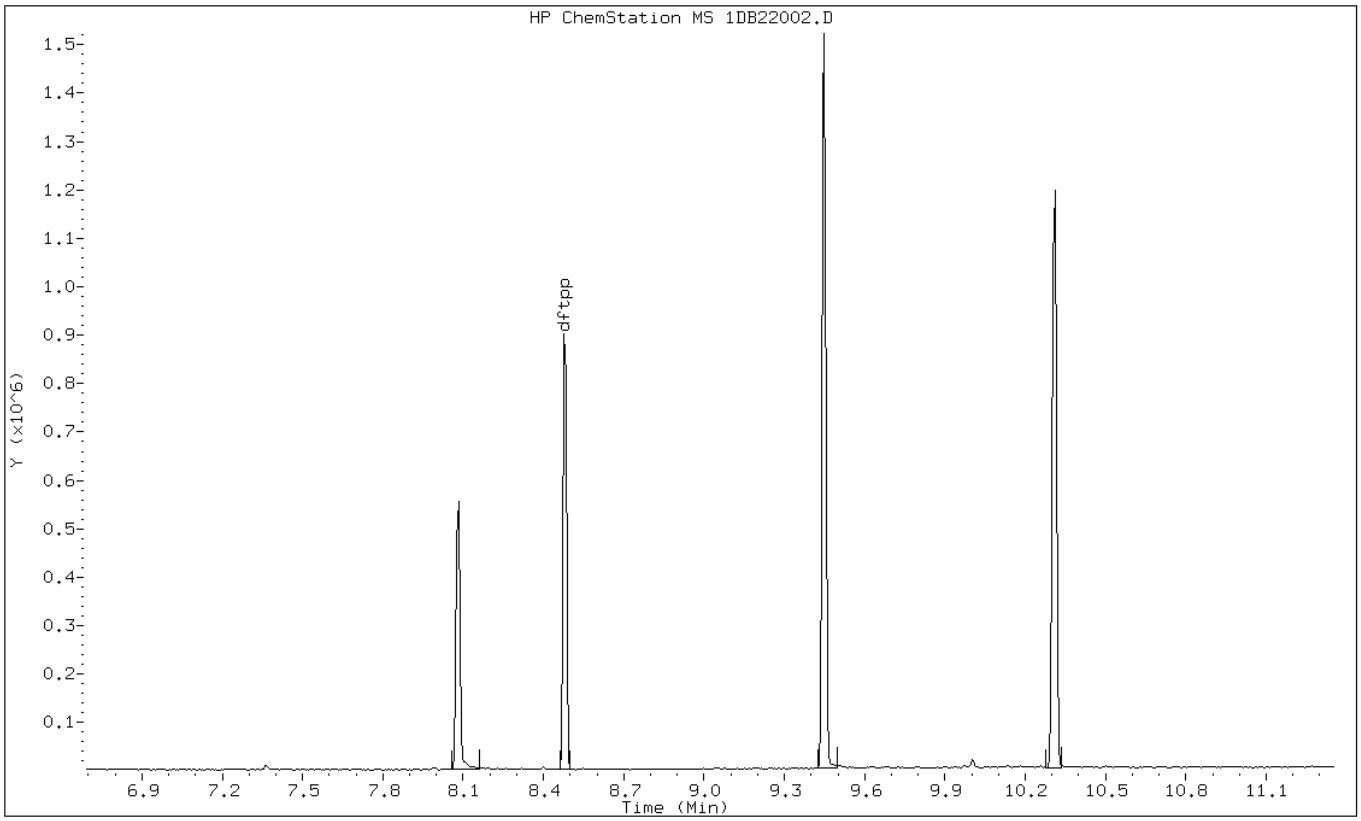
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



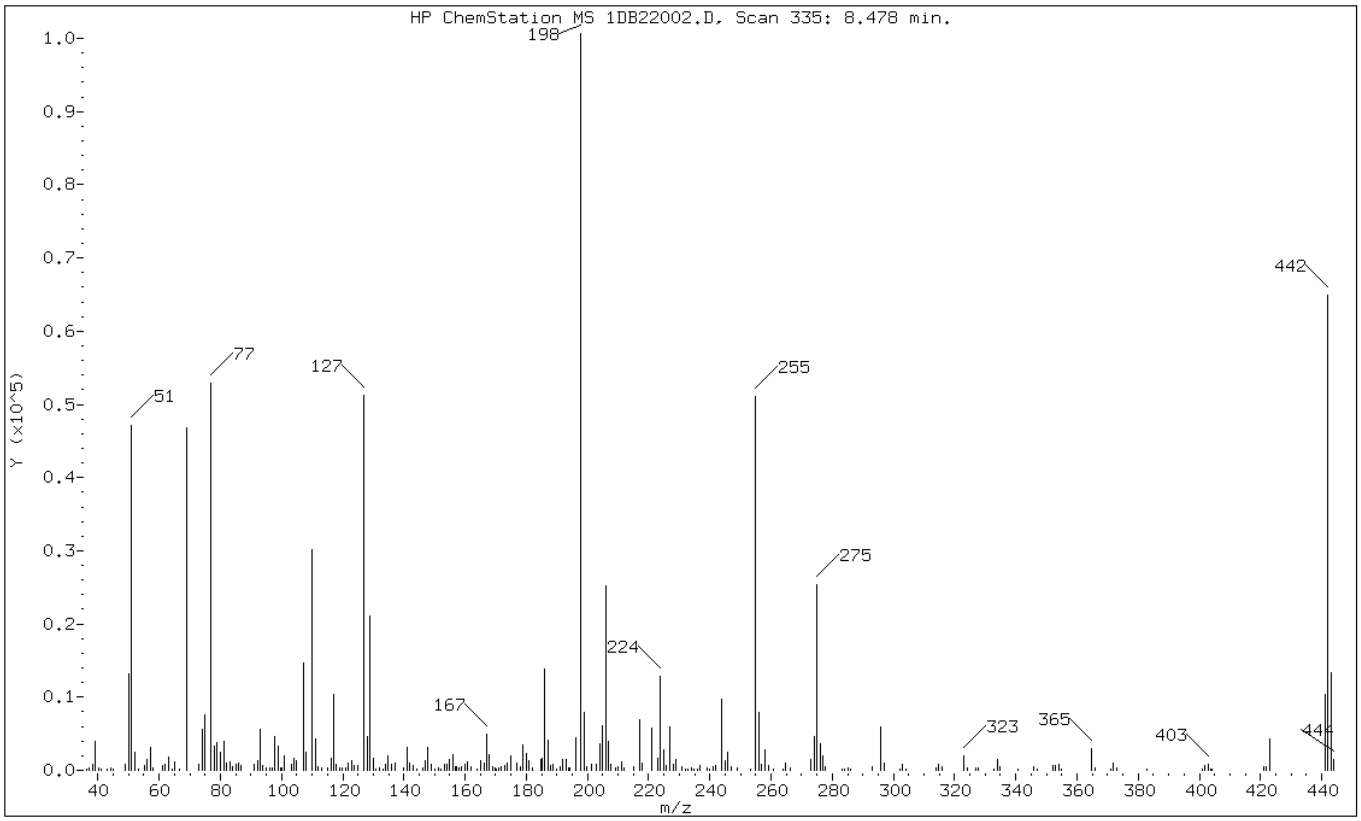
Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 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	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
112.90	308	177.90	412	255.90	7928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 20-MAR-2013 11:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.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		
8.429	8.532	-0.103	198	113856			50.00- 0.00	100.00
8.429	8.532	-0.103	51	44512			10.00- 80.00	39.09
8.429	8.532	-0.103	68	0	0.0	0.0	0.00- 2.00	0.00
8.429	8.532	-0.103	69	46088			0.00- 0.00	40.48
8.429	8.532	-0.103	70	0	0.0	0.0	0.00- 2.00	0.00
8.429	8.532	-0.103	127	54520			10.00- 80.00	47.89
8.429	8.532	-0.103	197	0	0.0	0.0	0.00- 2.00	0.00
8.429	8.532	-0.103	442	113496			50.00- 0.00	99.68
8.429	8.532	-0.103	199	7477			5.00- 9.00	6.57
8.429	8.532	-0.103	275	33632			10.00- 60.00	29.54
8.429	8.532	-0.103	365	3797			1.00- 0.00	3.33
8.429	8.532	-0.103	441	17976			0.01- 99.99	82.40
8.429	8.532	-0.103	443	21816			15.00- 24.00	19.22

Data File: 1DC20002.D

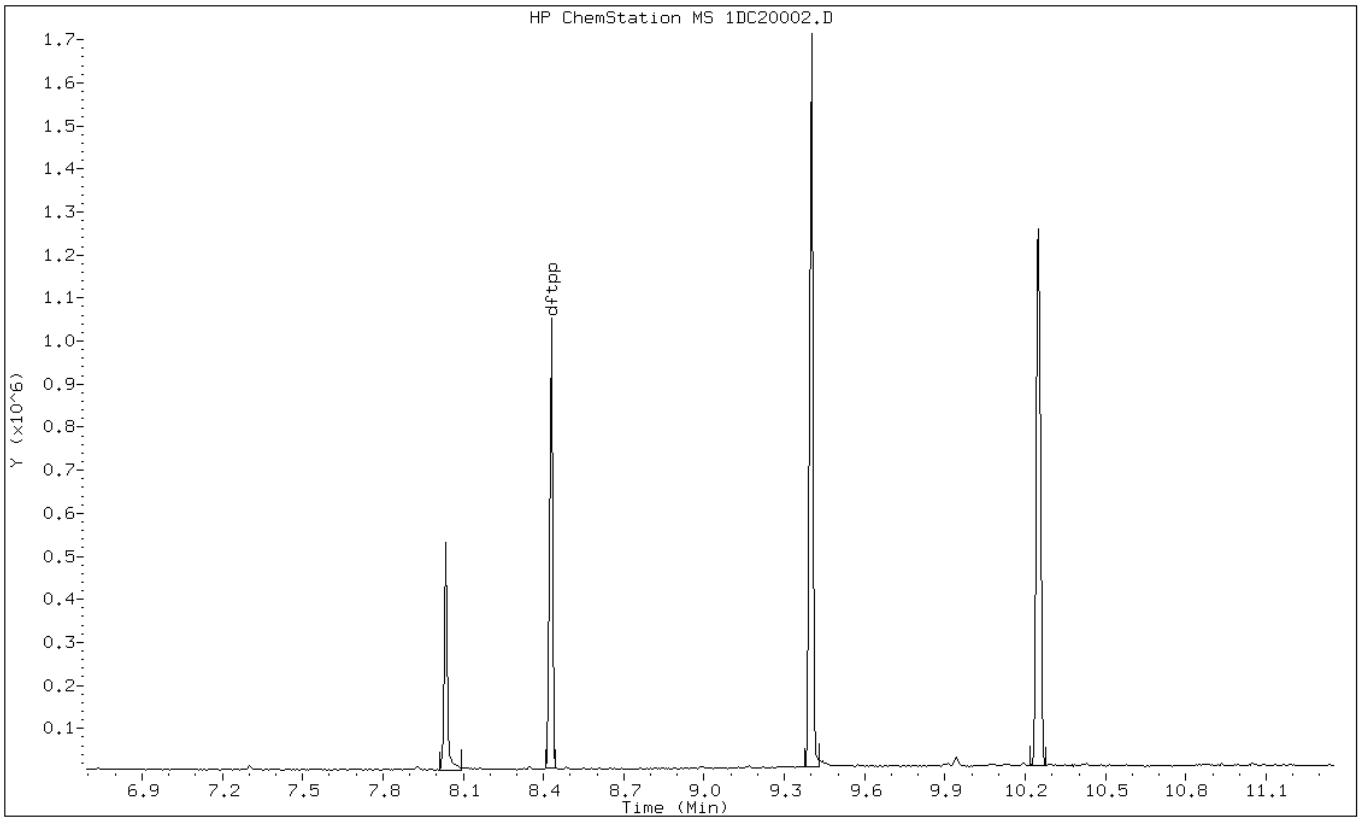
Date: 20-MAR-2013 11:24

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



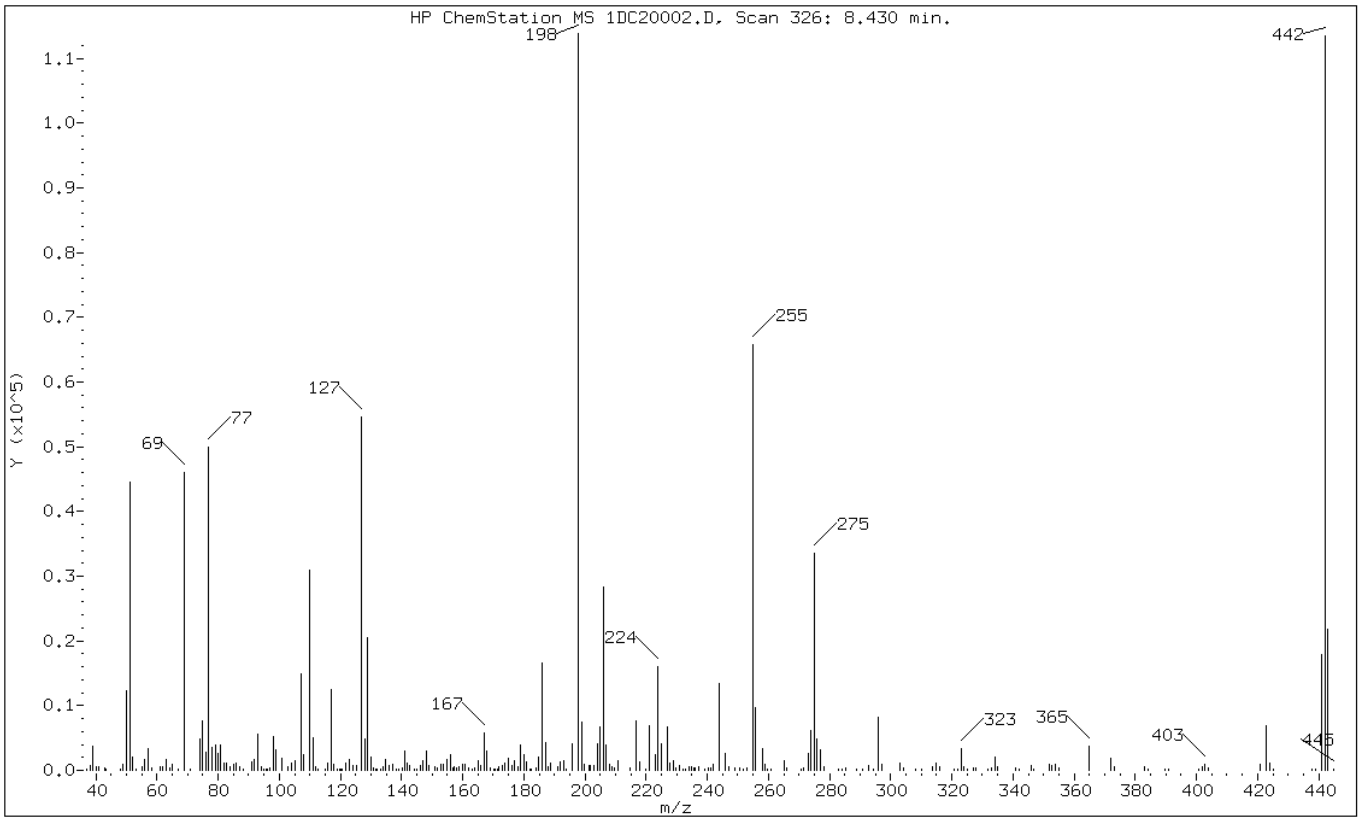
Data File: 1DC20002.D

Date: 20-MAR-2013 11:24

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 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	39.09
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.48
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	47.89
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	99.68
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 60.00% of mass 198	29.54
365	Greater than 1.00% of mass 198	3.33
441	Present, but less than mass 443	15.79
443	15.00 - 24.00% of mass 442	19.16 (19.22)

Data File: 1DC20002.D

Date: 20-MAR-2013 11:24

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032013.b\1DC20002.D
Spectrum: HP ChemStation MS 1DC20002.D, Scan 326: 8.430 min.
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	212	120.10	179	184.90	1984	273.90	6078
38.10	732	120.70	221	186.00	16552	274.90	33632
39.10	3727	121.90	1099	187.00	4327	275.90	4846
40.00	531	123.00	1761	188.10	477	276.90	3256
41.10	615	124.00	675	188.90	1029	278.00	605
43.00	296	125.10	688	191.00	564	282.80	243
43.50	184	127.00	54520	191.80	1355	284.00	273
48.10	190	128.00	4891	193.00	1514	285.10	361
49.00	909	129.00	20488	193.90	180	288.90	219
50.00	12315	129.90	2113	196.00	4023	290.90	153
51.00	44512	130.90	411	197.90	113856	292.80	660
52.10	2042	131.50	219	198.90	7477	294.20	165
53.00	175	132.00	217	199.90	952	295.90	8202
55.10	566	133.00	272	201.20	742	297.20	855
56.00	1667	134.10	643	201.80	659	303.00	1191
57.10	3264	134.90	1688	202.80	749	304.10	396
58.20	305	135.90	686	204.00	4072	308.00	187
61.00	631	137.00	871	205.00	6650	310.00	199
61.90	533	138.10	183	206.00	28392	313.80	499
63.10	1747	138.90	205	207.00	3862	315.00	1182
64.20	288	140.10	348	207.90	947	315.90	488
65.00	906	141.00	2928	208.80	652	320.80	211
67.00	256	141.90	1108	209.70	450	321.80	160
69.00	46088	142.80	669	210.80	1530	323.00	3302
70.90	206	144.10	215	214.90	387	324.00	515
74.00	4816	144.80	253	216.90	7640	324.90	151
75.00	7565	146.00	730	217.80	1235	326.90	397
76.00	2824	146.90	1519	219.70	202	327.20	449
77.00	50016	148.00	2941	221.10	6842	328.00	343
78.00	3589	148.90	671	222.90	2388	331.90	219
79.00	4003	151.00	518	224.00	15967	332.90	353
79.90	2700	151.80	348	224.90	4014	334.00	2081
80.90	3978	152.90	896	226.90	6635	335.00	648
82.00	1110	153.80	952	227.80	1162	340.90	439
82.90	1028	154.90	1636	228.90	1433	342.00	169
83.90	554	156.00	2478	229.90	296	345.90	697
85.10	980	156.90	285	230.90	689	346.80	195
85.90	1197	157.30	473	231.90	259	351.90	908
87.00	539	157.90	464	232.90	153	352.80	788
88.10	205	158.90	499	234.00	598	353.80	919

91.00	1367	159.90	1020	234.90	565	354.90	416
91.90	1628	160.90	975	235.70	355	364.90	3797
93.00	5642	162.00	434	236.10	325	372.00	1891
94.00	512	163.10	211	237.10	551	373.00	516
95.00	264	164.00	362	239.00	273	383.00	529
95.90	250	165.00	1403	240.20	419	384.10	160
96.10	246	165.90	811	241.00	396	389.80	165
96.90	353	167.00	5800	242.00	1003	391.00	255
98.00	5127	167.90	2904	244.00	13481	400.80	192
99.00	3101	169.10	422	246.00	2597	401.80	530
100.90	1845	170.40	267	246.90	614	402.90	910
102.80	546	170.70	267	249.00	454	403.90	438
104.00	1182	171.20	252	250.80	290	420.90	986
105.10	1475	171.80	637	251.90	161	423.00	6819
107.00	14878	172.90	719	253.10	430	424.00	1099
108.00	2467	173.90	1081	254.90	65776	425.30	258
109.90	30936	175.00	1824	255.90	9655	438.00	170
110.90	5095	176.00	672	257.90	3395	439.00	192
111.80	554	176.90	1537	258.80	1001	441.00	17976
112.80	273	177.90	542	259.80	213	442.00	113496
115.00	169	178.90	3998	261.00	184	442.90	21816
116.00	1204	179.90	2363	265.10	1484	444.90	185
116.90	12444	181.00	1230	266.00	413		
117.90	857	182.10	255	270.80	241		
119.00	207	182.40	259	271.60	285		
119.60	209	183.90	433	272.90	2542		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: | Lab Sample ID: MB 660-135524/1-A

Matrix: Solid | Lab File ID: 1CC20029.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.46(g) | Date Analyzed: 03/20/2013 18:35

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.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.0
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.7	U	8.7	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20029.D
Lab Smp Id: mb 660-135524/1-a
Inj Date : 20-MAR-2013 18:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135524/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 29 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	15.460	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

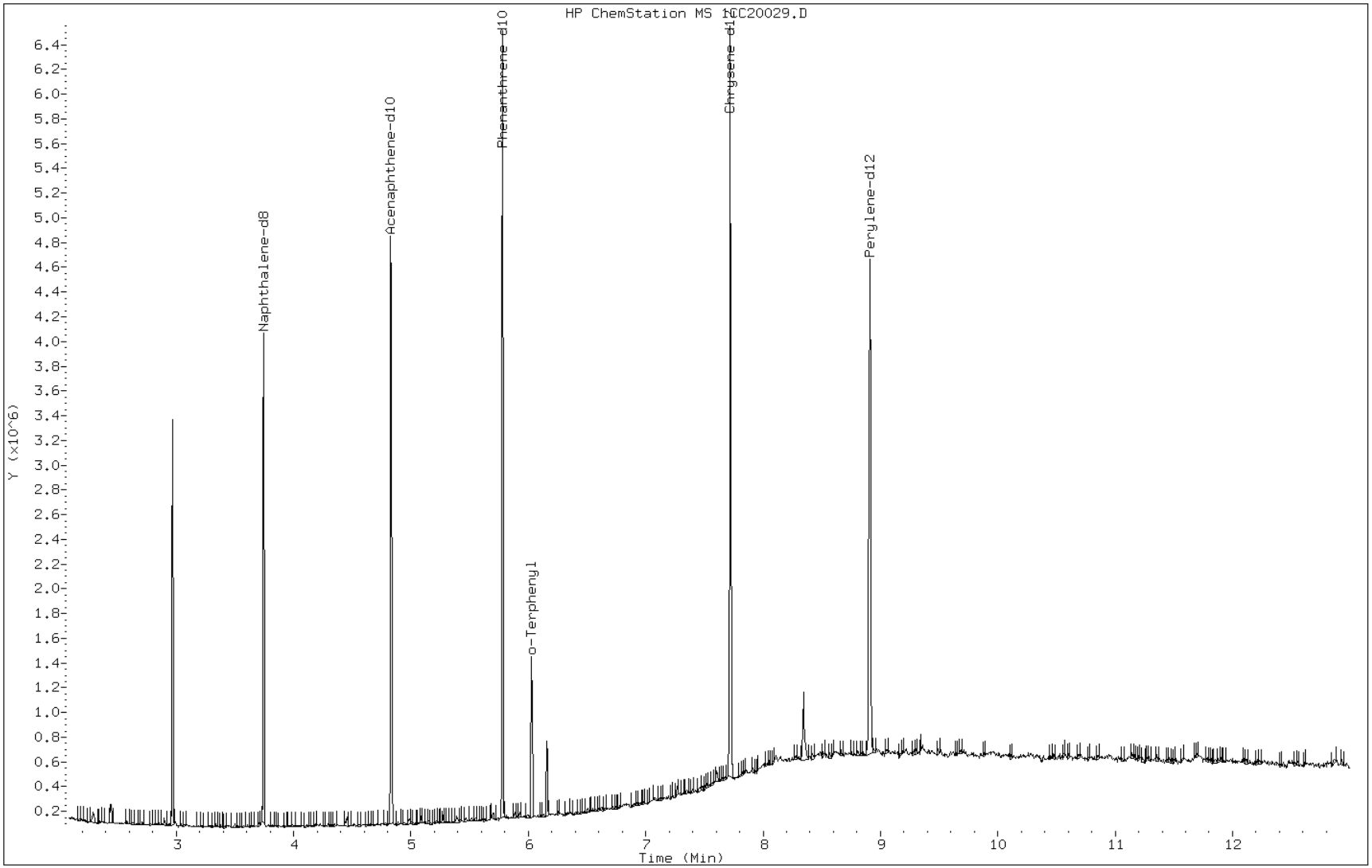
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	928862	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	753395	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1441239	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	169245	7.77771	503.0862
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1511436	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1436196	40.0000	

Data File: 1CC20029.D

Date: 20-MAR-2013 18:35

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135524/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: | Lab Sample ID: MB 660-135556/1-A

Matrix: Solid | Lab File ID: 1CC21032.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/20/2013 08:31

Sample wt/vol: 15.40(g) | Date Analyzed: 03/21/2013 20:27

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

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

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

Analysis Batch No.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21032.D
Lab Smp Id: mb 660-135556/1-a
Inj Date : 21-MAR-2013 20:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135556/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 31 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	15.400	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

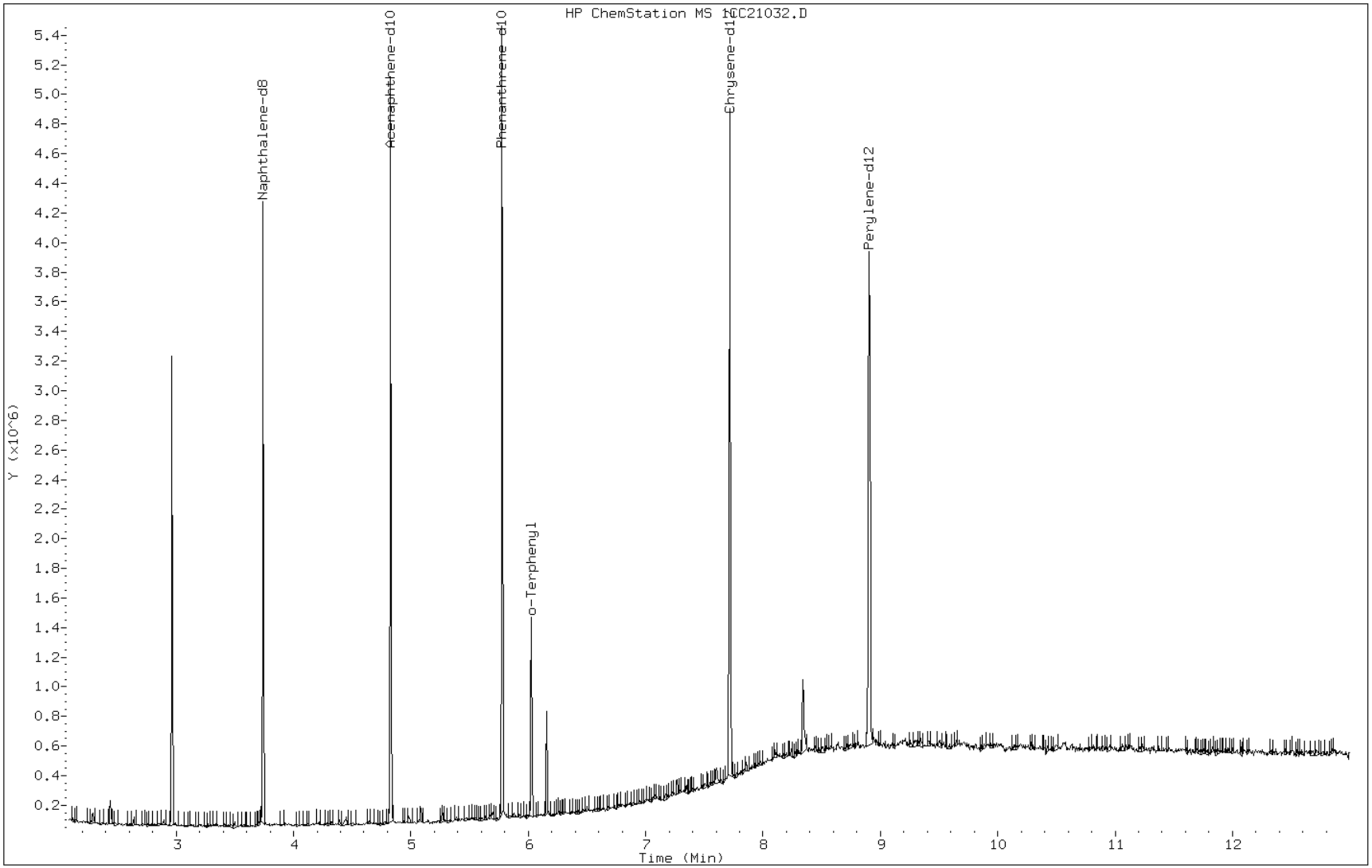
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.739	3.739	(1.000)	851567	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	663430	40.0000	
* 10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1242632	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.044)	163790	8.73005	566.8866
* 18 Chrysene-d12	240	7.715	7.715	(1.000)	1292802	40.0000	
* 23 Perylene-d12	264	8.904	8.898	(1.000)	1269070	40.0000	

Data File: 1CC21032.D

Date: 21-MAR-2013 20:27

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135556/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: | Lab Sample ID: LCS 660-135524/2-A

Matrix: Solid | Lab File ID: 1CC20030.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.24(g) | Date Analyzed: 03/20/2013 18:54

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

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

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

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	467		98	20
208-96-8	Acenaphthylene	502		39	4.9
120-12-7	Anthracene	487		8.3	4.1
56-55-3	Benzo[a]anthracene	488		7.9	3.8
50-32-8	Benzo[a]pyrene	493		10	5.1
205-99-2	Benzo[b]fluoranthene	550		12	6.0
191-24-2	Benzo[g,h,i]perylene	435		20	4.3
207-08-9	Benzo[k]fluoranthene	505		7.9	3.5
218-01-9	Chrysene	469		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	490		20	4.0
206-44-0	Fluoranthene	489		20	3.9
86-73-7	Fluorene	492		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	460		20	7.0
90-12-0	1-Methylnaphthalene	536		39	4.3
91-57-6	2-Methylnaphthalene	464		39	7.0
91-20-3	Naphthalene	485		39	4.3
85-01-8	Phenanthrene	483		7.9	3.8
129-00-0	Pyrene	543		20	3.6

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\1C032013.b\1CC20030.D
Lab Smp Id: lcs 660-135524/2-a
Inj Date : 20-MAR-2013 18:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135524/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 30 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	15.240	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	967491	40.0000	
* 6 Acenaphthene-d10	164	4.833	4.827	(1.000)	748909	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1418270	40.0000	
$ 14 o-Terphenyl	230	6.033	6.027	(1.044)	163991	7.65831	502.5140
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1580368	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1426373	40.0000	
2 Naphthalene	128	3.757	3.757	(1.003)	186305	7.39674	485.3503
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	118704	7.06524	463.5983
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	125057	8.17269	536.2659
5 Acenaphthylene	152	4.745	4.745	(0.982)	230956	7.64916	501.9131
7 Acenaphthene	154	4.851	4.851	(1.004)	133699	7.12414	467.4629
9 Fluorene	166	5.168	5.169	(1.069)	178112	7.50440	492.4146
11 Phenanthrene	178	5.792	5.792	(1.002)	301598	7.35424	482.5614
12 Anthracene	178	5.827	5.827	(1.008)	297499	7.41752	486.7137

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.939	5.933	(1.027)	273919	7.68294	504.1300
15 Fluoranthene	202	6.633	6.633	(1.148)	334676	7.45198	488.9750
16 Pyrene	202	6.798	6.798	(0.880)	351765	8.28265	543.4807
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	339502	7.44318	488.3978
19 Chrysene	228	7.739	7.739	(1.002)	326494	7.15263	469.3323
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	312710	8.38895	550.4558
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	294246	7.69475	504.9049
22 Benzo(a)pyrene	252	8.856	8.857	(0.994)	272248	7.51908	493.3779
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	238575	7.00432	459.6010(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.098	(1.133)	248924	7.47148	490.2544
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	235947	6.62200	434.5141

QC Flag Legend

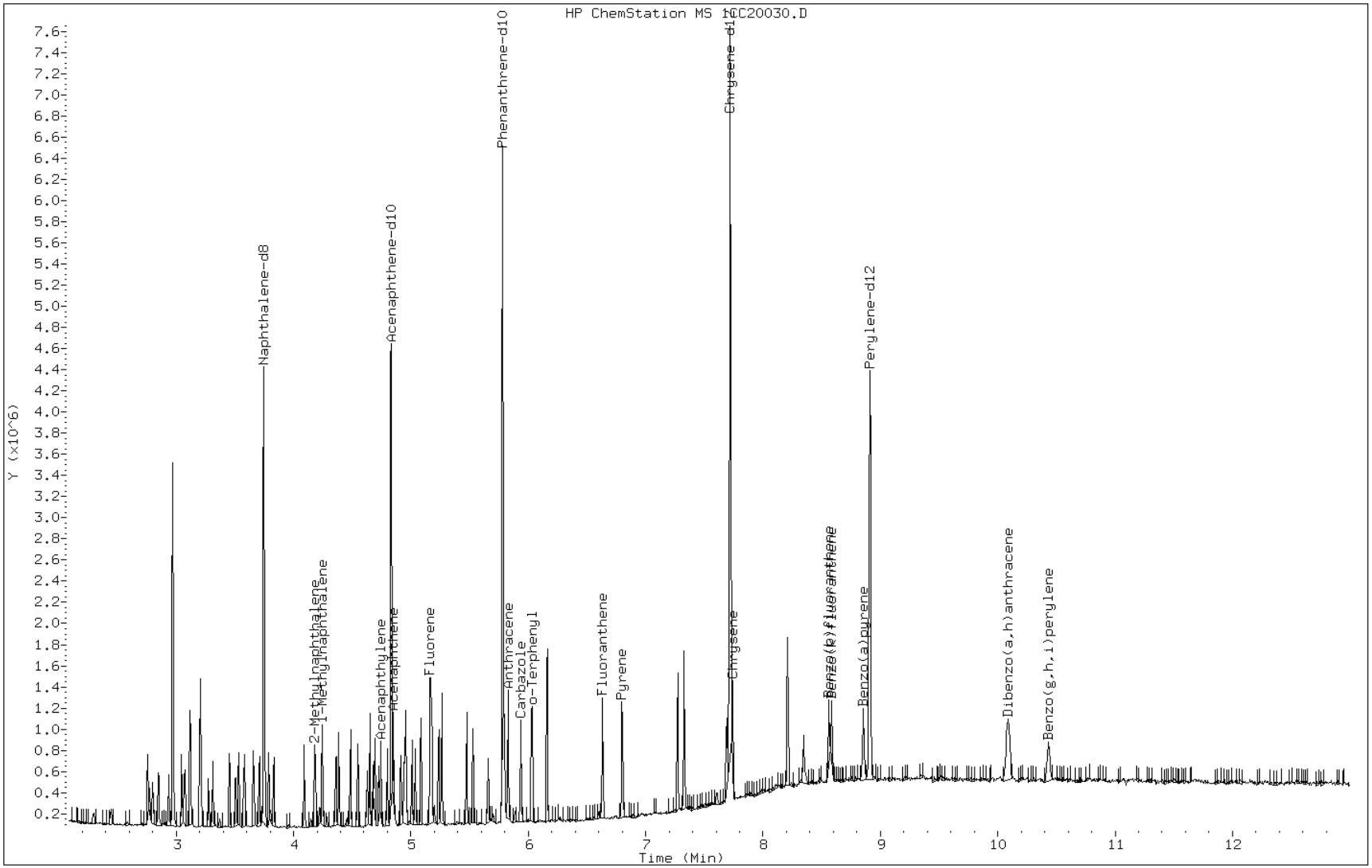
M - Compound response manually integrated.

Data File: 1CC20030.D

Date: 20-MAR-2013 18:54

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135524/2-a Operator: SCC



Manual Integration Report

Data File: 1CC20030.D
Inj. Date and Time: 20-MAR-2013 18:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

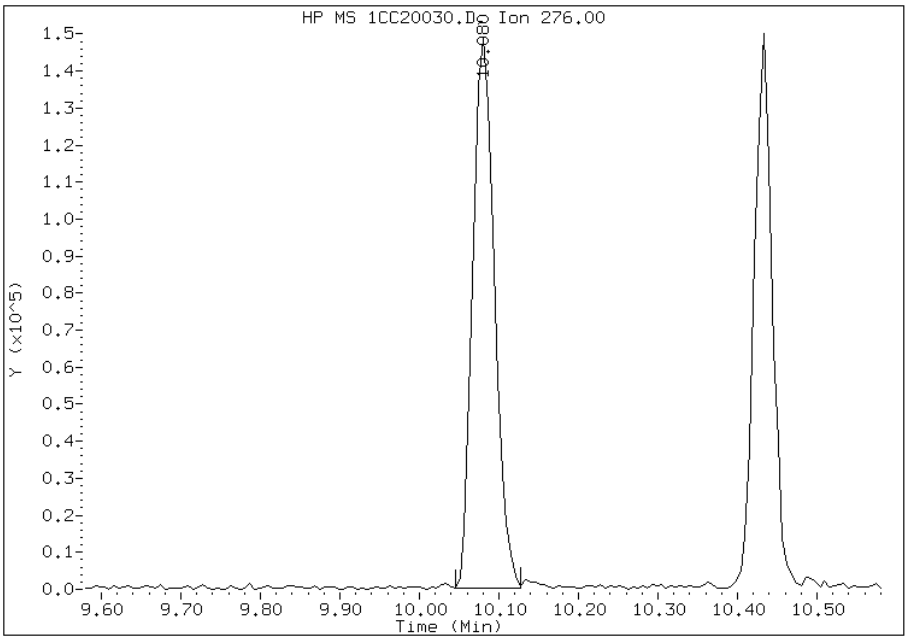
Processing Integration Results

RT: 10.08

Response: 280362

Amount: 8

Conc: 540



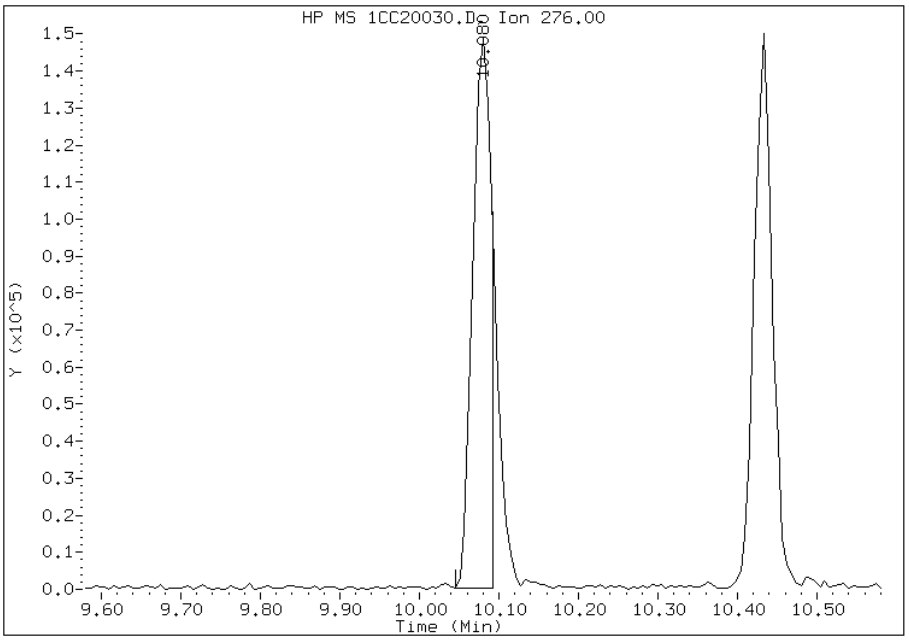
Manual Integration Results

RT: 10.08

Response: 238575

Amount: 7

Conc: 460



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: | Lab Sample ID: LCS 660-135556/2-A

Matrix: Solid | Lab File ID: 1CC21033.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/20/2013 08:31

Sample wt/vol: 15.05(g) | Date Analyzed: 03/21/2013 20:46

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.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	456		100	20
208-96-8	Acenaphthylene	518		40	5.0
120-12-7	Anthracene	519		8.4	4.2
56-55-3	Benzo[a]anthracene	537		8.0	3.9
50-32-8	Benzo[a]pyrene	503		10	5.2
205-99-2	Benzo[b]fluoranthene	555		12	6.1
191-24-2	Benzo[g,h,i]perylene	382		20	4.4
207-08-9	Benzo[k]fluoranthene	529		8.0	3.6
218-01-9	Chrysene	510		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	458		20	4.1
206-44-0	Fluoranthene	507		20	4.0
86-73-7	Fluorene	501		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	445		20	7.1
90-12-0	1-Methylnaphthalene	600		40	4.4
91-57-6	2-Methylnaphthalene	543		40	7.1
91-20-3	Naphthalene	558		40	4.4
85-01-8	Phenanthrene	499		8.0	3.9
129-00-0	Pyrene	572		20	3.7

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\1C032113.b\1CC21033.D
Lab Smp Id: lcs 660-135556/2-a
Inj Date : 21-MAR-2013 20:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135556/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.739	3.739	(1.000)	931773	40.0000	
* 6	Acenaphthene-d10	164	4.827	4.827	(1.000)	775277	40.0000	
* 10	Phenanthrene-d10	188	5.774	5.774	(1.000)	1425754	40.0000	
$ 14	o-Terphenyl	230	6.027	6.027	(1.044)	161720	7.51262	499.1771
* 18	Chrysene-d12	240	7.721	7.715	(1.000)	1511839	40.0000	
* 23	Perylene-d12	264	8.903	8.898	(1.000)	1425427	40.0000	
2	Naphthalene	128	3.751	3.751	(1.003)	203793	8.40121	558.2200
3	2-Methylnaphthalene	142	4.180	4.180	(1.118)	132219	8.17132	542.9447
4	1-Methylnaphthalene	142	4.239	4.239	(1.134)	133066	9.02945	599.9631
5	Acenaphthylene	152	4.739	4.739	(0.982)	243791	7.79963	518.2479
7	Acenaphthene	154	4.845	4.845	(1.004)	133233	6.85785	455.6710
9	Fluorene	166	5.168	5.162	(1.071)	185255	7.53989	500.9891
11	Phenanthrene	178	5.792	5.792	(1.003)	309786	7.51424	499.2852
12	Anthracene	178	5.827	5.821	(1.009)	314640	7.80371	518.5191

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.933	5.933	(1.028)	284937	7.95003	528.2409
15 Fluoranthene	202	6.627	6.627	(1.148)	344658	7.63396	507.2397
16 Pyrene	202	6.798	6.792	(0.880)	349861	8.61122	572.1741
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	352708	8.08322	537.0909
19 Chrysene	228	7.739	7.733	(1.002)	335472	7.68244	510.4611
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.961)	311408	8.35956	555.4527
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.964)	304139	7.95874	528.8199
22 Benzo(a)pyrene	252	8.850	8.845	(0.994)	273983	7.57202	503.1242
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	228143	6.70249	445.3483(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	229560	6.89484	458.1288
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	204830	5.75249	382.2255

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21033.D

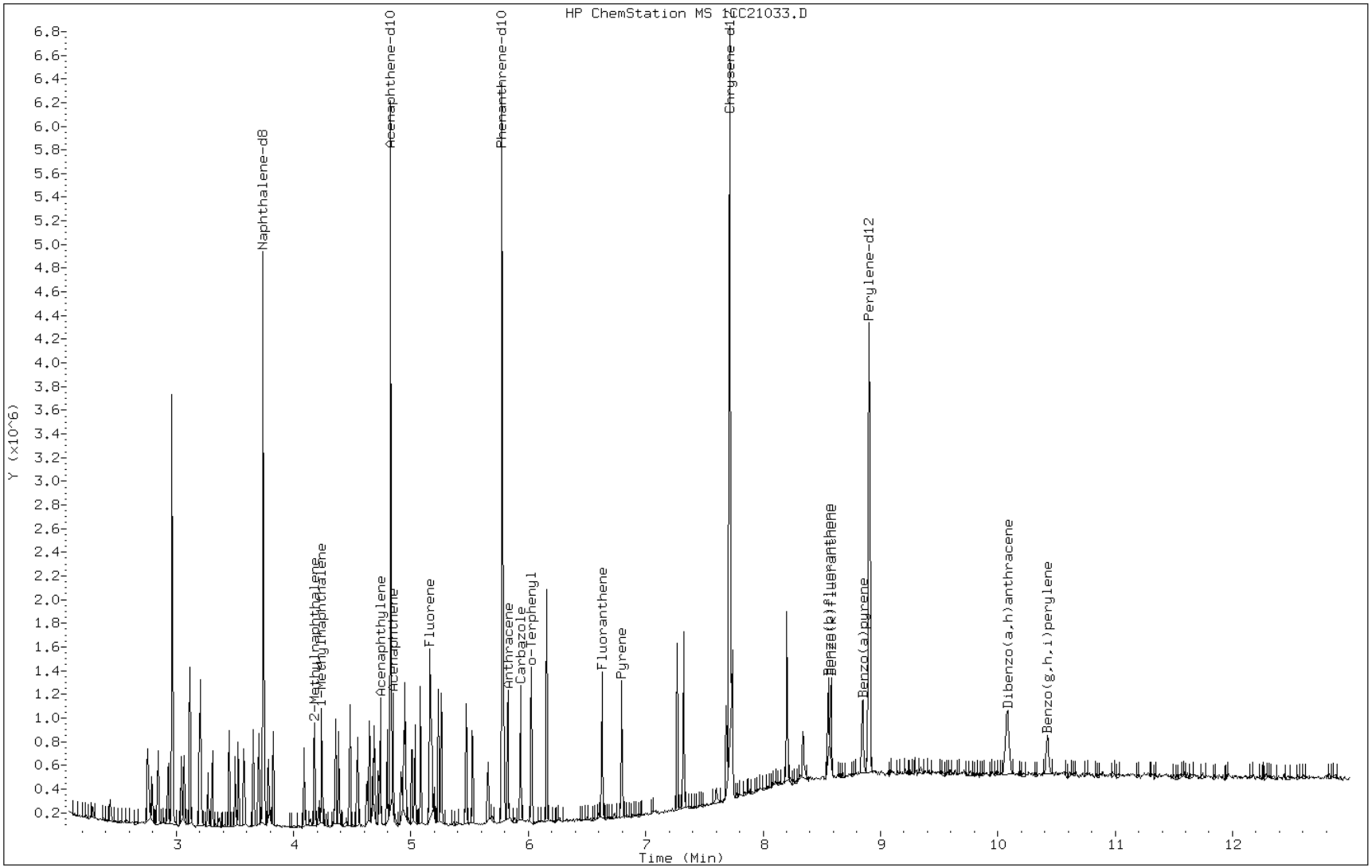
Date: 21-MAR-2013 20:46

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135556/2-a

Operator: SCC



Manual Integration Report

Data File: 1CC21033.D
Inj. Date and Time: 21-MAR-2013 20:46
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

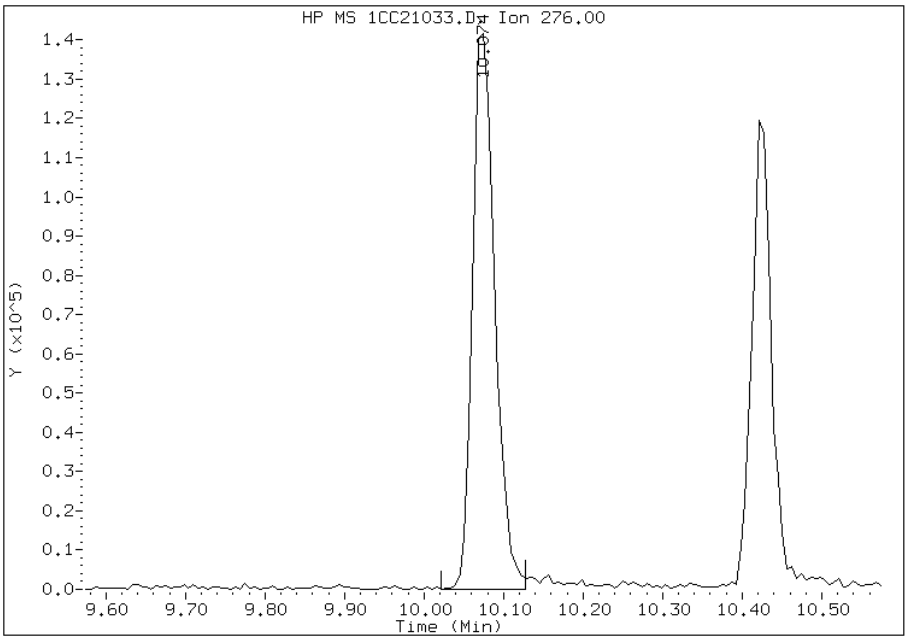
Processing Integration Results

RT: 10.07

Response: 275144

Amount: 8

Conc: 537



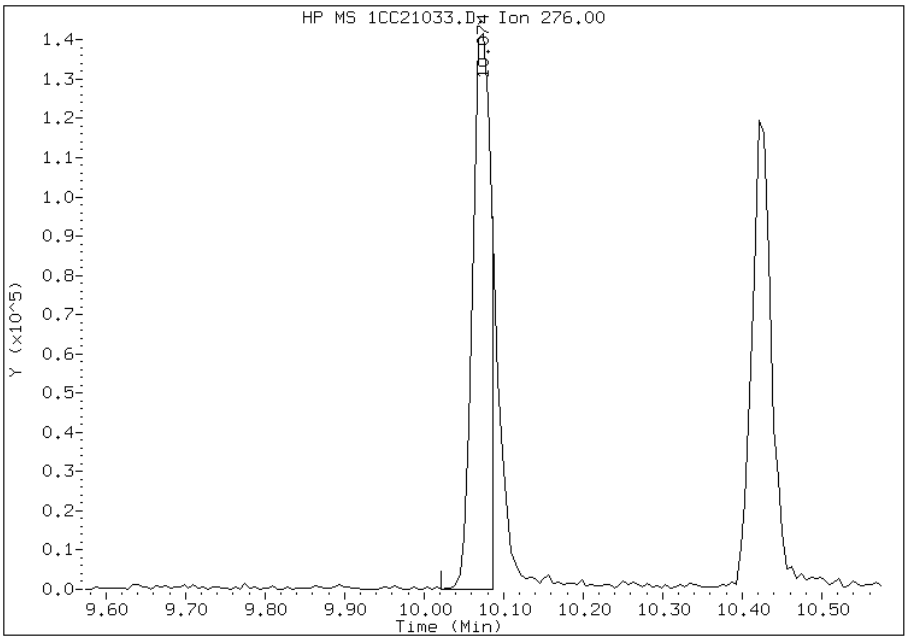
Manual Integration Results

RT: 10.07

Response: 228143

Amount: 7

Conc: 445



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: | Lab Sample ID: 680-88298-A-21-B MS

Matrix: Solid | Lab File ID: 1CC21037.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/20/2013 08:31

Sample wt/vol: 15.14(g) | Date Analyzed: 03/21/2013 21:59

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

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

% Moisture: 31.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	647		140	29
208-96-8	Acenaphthylene	672		58	7.2
120-12-7	Anthracene	719		12	6.1
56-55-3	Benzo[a]anthracene	740		12	5.6
50-32-8	Benzo[a]pyrene	685		15	7.5
205-99-2	Benzo[b]fluoranthene	847		18	8.8
191-24-2	Benzo[g,h,i]perylene	533		29	6.4
207-08-9	Benzo[k]fluoranthene	779		12	5.2
218-01-9	Chrysene	745		13	6.5
53-70-3	Dibenz(a,h)anthracene	599		29	5.9
206-44-0	Fluoranthene	776		29	5.8
86-73-7	Fluorene	655		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	561		29	10
90-12-0	1-Methylnaphthalene	752		58	6.4
91-57-6	2-Methylnaphthalene	692		58	10
91-20-3	Naphthalene	683		58	6.4
85-01-8	Phenanthrene	768		12	5.6
129-00-0	Pyrene	856		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21037.D
Lab Smp Id: 680-88298-a-21-b ms
Inj Date : 21-MAR-2013 21:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.739	3.739	(1.000)	984901	40.0000	
* 6	Acenaphthene-d10	164	4.827	4.827	(1.000)	791260	40.0000	
* 10	Phenanthrene-d10	188	5.774	5.774	(1.000)	1392985	40.0000	
$ 14	o-Terphenyl	230	6.027	6.027	(1.044)	138628	6.59138	435.3621
* 18	Chrysene-d12	240	7.721	7.715	(1.000)	1507020	40.0000	
* 23	Perylene-d12	264	8.904	8.898	(1.000)	1369916	40.0000	
2	Naphthalene	128	3.751	3.751	(1.003)	181567	7.08120	467.7149
3	2-Methylnaphthalene	142	4.180	4.180	(1.118)	122747	7.17673	474.0245
4	1-Methylnaphthalene	142	4.239	4.239	(1.134)	121426	7.79513	514.8697
5	Acenaphthylene	152	4.739	4.739	(0.982)	222329	6.96932	460.3247
7	Acenaphthene	154	4.845	4.845	(1.004)	132987	6.70692	442.9932
9	Fluorene	166	5.169	5.162	(1.071)	170334	6.79257	448.6503
11	Phenanthrene	178	5.792	5.792	(1.003)	320749	7.96319	525.9700
12	Anthracene	178	5.827	5.821	(1.009)	293561	7.45219	492.2185

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.933	5.933	(1.027)	263027	7.51135	496.1263
15 Fluoranthene	202	6.627	6.627	(1.148)	355105	8.05038	531.7291
16 Pyrene	202	6.798	6.792	(0.880)	359614	8.87958	586.4978
17 Benzo(a)anthracene	228	7.710	7.709	(0.998)	333946	7.67771	507.1143
19 Chrysene	228	7.739	7.733	(1.002)	336077	7.72091	509.9673
20 Benzo(b)fluoranthene	252	8.557	8.551	(0.961)	314398	8.78182	580.0411
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.964)	296790	8.08114	533.7607
22 Benzo(a)pyrene	252	8.851	8.845	(0.994)	247055	7.10449	469.2528
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	190306	5.81745	384.2437(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	198818	6.21348	410.4013
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.171)	189088	5.52558	364.9654

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21037.D

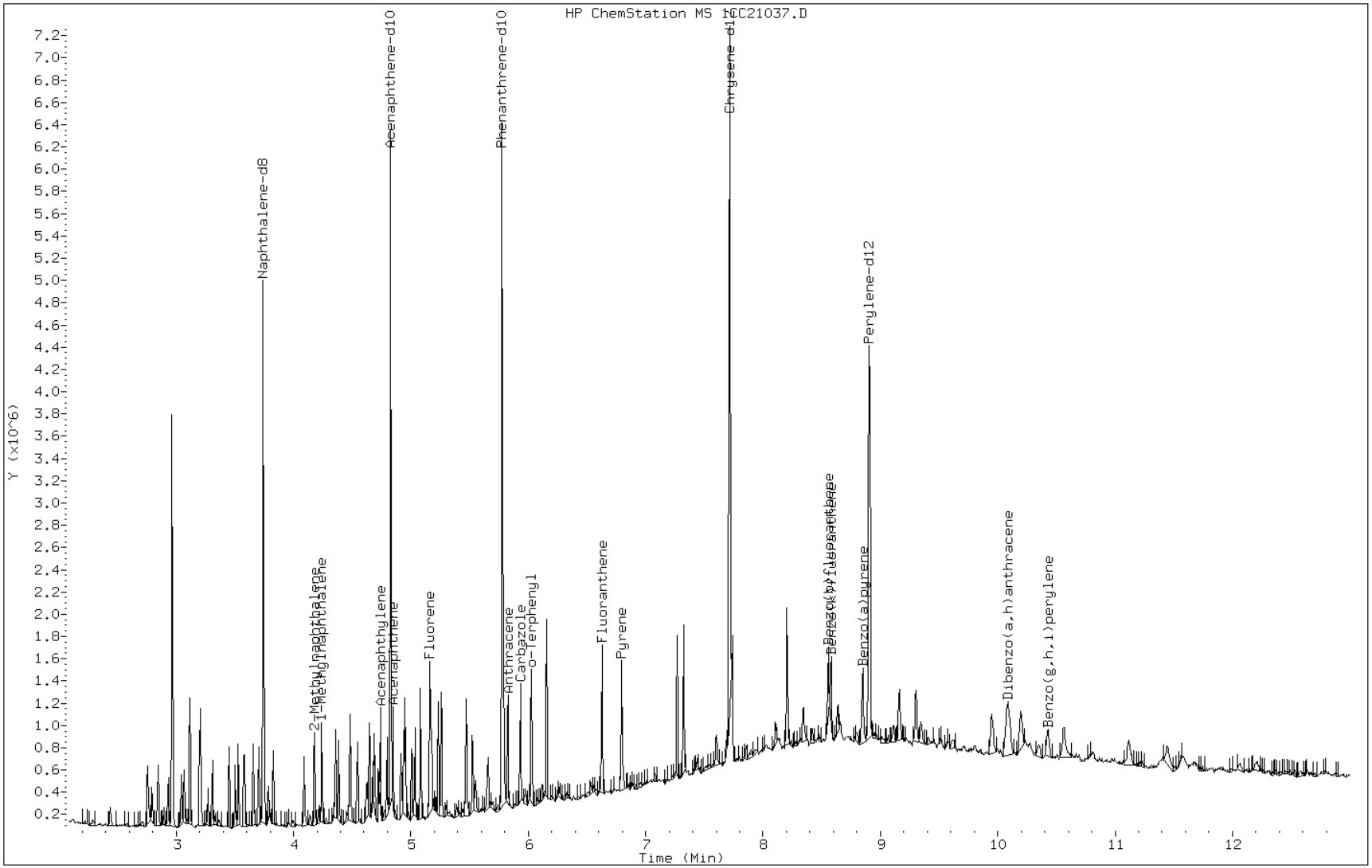
Date: 21-MAR-2013 21:59

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88298-a-21-b ms

Operator: SCC



Manual Integration Report

Data File: 1CC21037.D
Inj. Date and Time: 21-MAR-2013 21:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

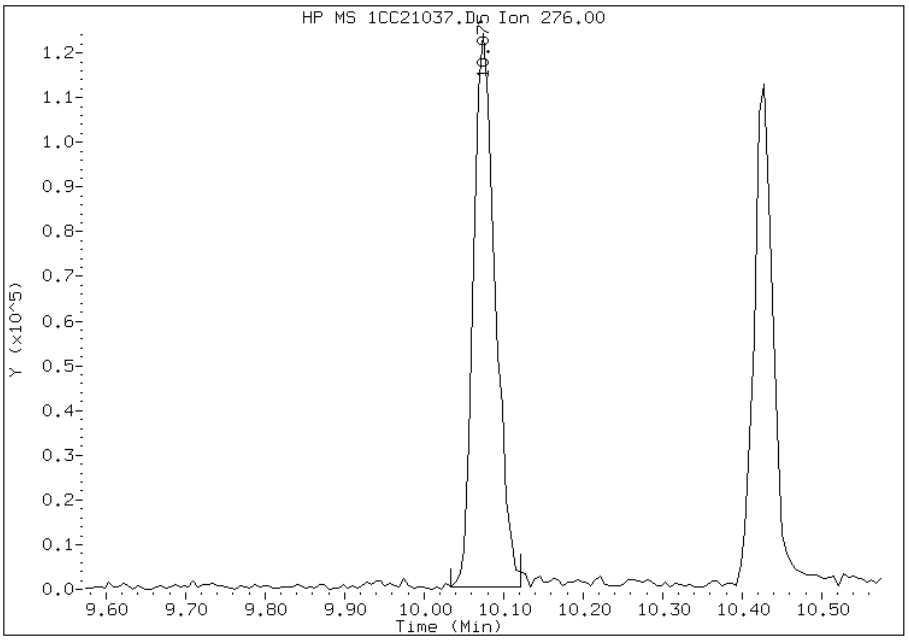
Processing Integration Results

RT: 10.07

Response: 236074

Amount: 7

Conc: 477



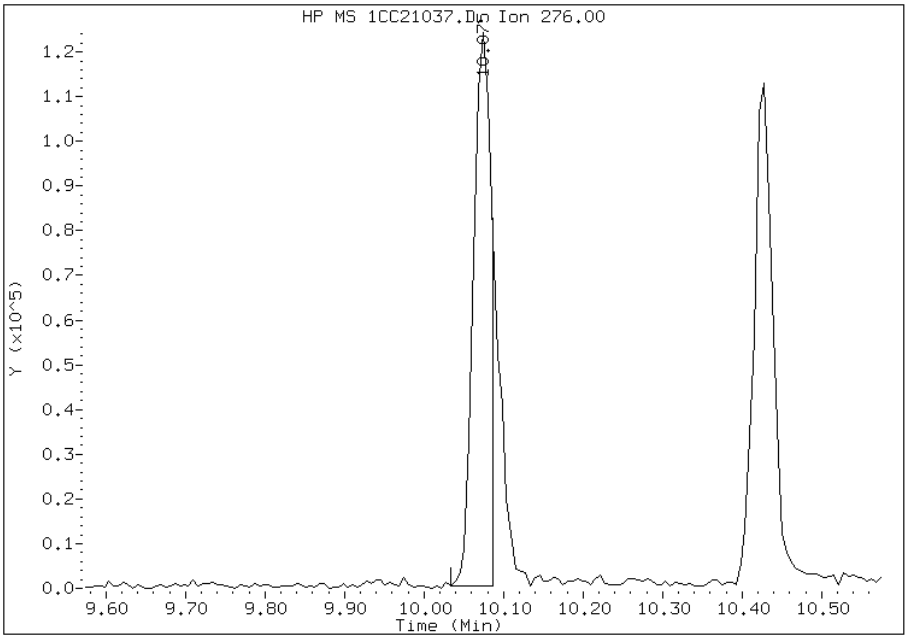
Manual Integration Results

RT: 10.07

Response: 190306

Amount: 6

Conc: 384



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0169B-CS-SP MS | Lab Sample ID: 680-88298-4 MS

Matrix: Solid | Lab File ID: 1CC20037.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:22

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.24(g) | Date Analyzed: 03/20/2013 21:02

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

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

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	817		520	100
208-96-8	Acenaphthylene	715		210	26
120-12-7	Anthracene	1200		44	22
56-55-3	Benzo[a]anthracene	2080		41	20
50-32-8	Benzo[a]pyrene	1620		54	27
205-99-2	Benzo[b]fluoranthene	2320		63	32
191-24-2	Benzo[g,h,i]perylene	1070		100	23
207-08-9	Benzo[k]fluoranthene	1290		41	19
218-01-9	Chrysene	1880		47	23
53-70-3	Dibenz(a,h)anthracene	789		100	21
206-44-0	Fluoranthene	3770		100	21
86-73-7	Fluorene	1080		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	834		100	37
90-12-0	1-Methylnaphthalene	1360		210	23
91-57-6	2-Methylnaphthalene	1340		210	37
91-20-3	Naphthalene	1160		210	23
85-01-8	Phenanthrene	3910		41	20
129-00-0	Pyrene	3270		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20037.D
Lab Smp Id: 680-88298-a-4-b ms
Inj Date : 20-MAR-2013 21:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-4-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 37 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	15.240	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.745	3.745	(1.000)	939529	40.0000	
*	6 Acenaphthene-d10	164	4.827	4.827	(1.000)	748260	40.0000	
*	10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1331015	40.0000	
$	14 o-Terphenyl	230	6.033	6.027	(1.044)	42314	2.10559	552.6475
*	18 Chrysene-d12	240	7.721	7.721	(1.000)	1444709	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	1367105	40.0000	
	2 Naphthalene	128	3.757	3.757	(1.003)	82071	3.35538	880.6783(R)
	3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	63291	3.87918	1018.1580(R)
	4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	58561	3.94096	1034.3735(R)
	5 Acenaphthylene	152	4.745	4.745	(0.983)	62388	2.06805	542.7963
	7 Acenaphthene	154	4.851	4.851	(1.005)	44318	2.36353	620.3484
	9 Fluorene	166	5.168	5.169	(1.071)	74362	3.13581	823.0483
	11 Phenanthrene	178	5.792	5.792	(1.002)	435394	11.3127	2969.2213(R)
	12 Anthracene	178	5.827	5.827	(1.008)	130922	3.47826	912.9283(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.939	5.933	(1.027)	98699	2.94981	774.2284
15 Fluoranthene	202	6.633	6.633	(1.148)	459434	10.9005	2861.0221(R)
16 Pyrene	202	6.798	6.798	(0.880)	366689	9.44479	2478.9472(R)
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	250985	6.01924	1579.8541(R)
19 Chrysene	228	7.739	7.739	(1.002)	226605	5.43047	1425.3208(R)
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	239561	6.70522	1759.9003(R)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	136596	3.72695	978.2014(R)
22 Benzo(a)pyrene	252	8.850	8.857	(0.993)	162860	4.69295	1231.7445(R)
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.080	(1.131)	78738	2.41189	633.0408(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.098	(1.132)	72891	2.28268	599.1284
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	106136	3.10791	815.7244

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC20037.D

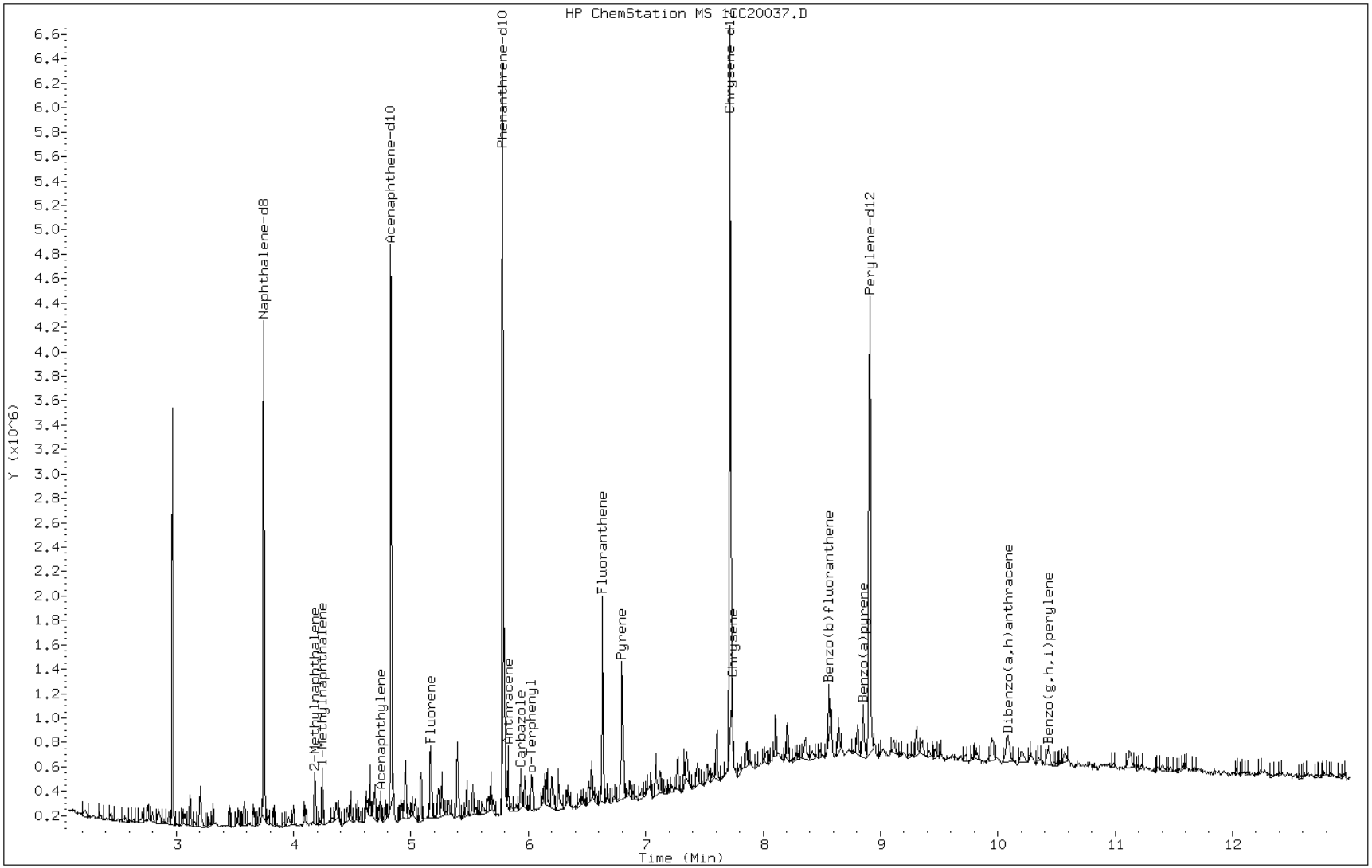
Date: 20-MAR-2013 21:02

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-b ms

Operator: SCC



Manual Integration Report

Data File: 1CC20037.D
Inj. Date and Time: 20-MAR-2013 21:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

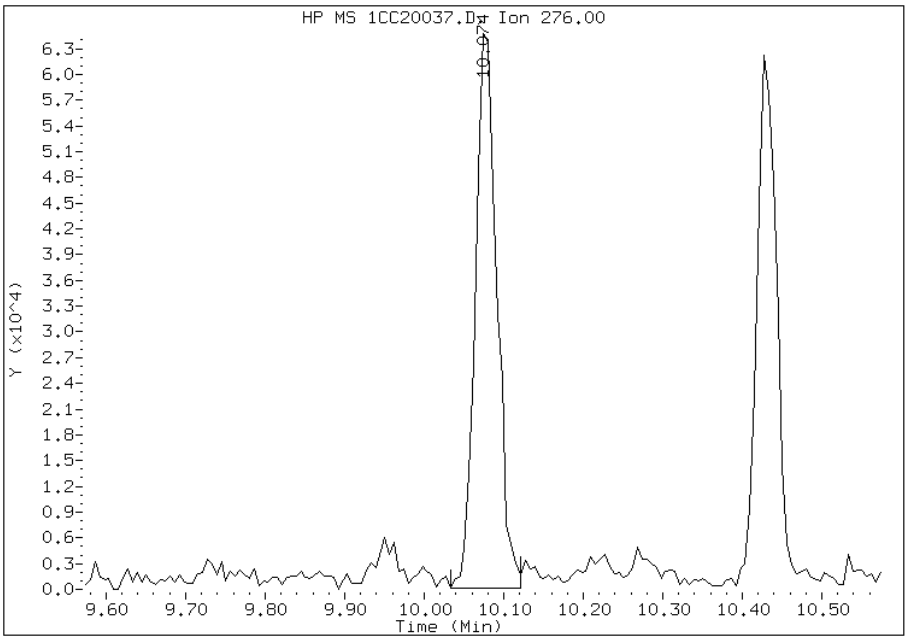
Processing Integration Results

RT: 10.07

Response: 120982

Amount: 4

Conc: 973



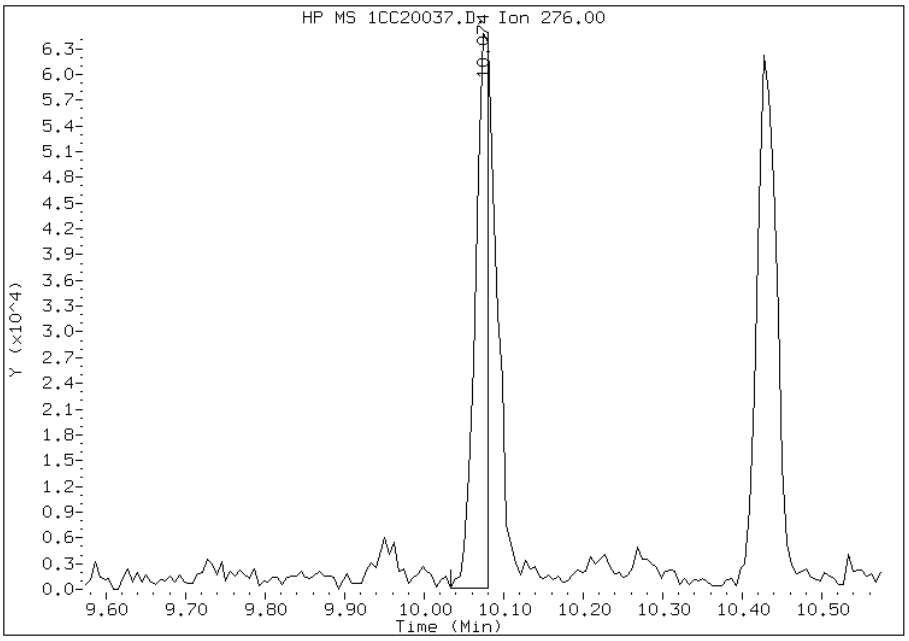
Manual Integration Results

RT: 10.07

Response: 78738

Amount: 2

Conc: 633



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: | Lab Sample ID: 680-88298-A-21-C MSD

Matrix: Solid | Lab File ID: 1CC21038.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/20/2013 08:31

Sample wt/vol: 15.13(g) | Date Analyzed: 03/21/2013 22:17

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

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

% Moisture: 31.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135643 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	559		140	29
208-96-8	Acenaphthylene	608		58	7.2
120-12-7	Anthracene	659		12	6.1
56-55-3	Benzo[a]anthracene	771		12	5.6
50-32-8	Benzo[a]pyrene	747		15	7.5
205-99-2	Benzo[b]fluoranthene	879		18	8.8
191-24-2	Benzo[g,h,i]perylene	555		29	6.4
207-08-9	Benzo[k]fluoranthene	747		12	5.2
218-01-9	Chrysene	751		13	6.5
53-70-3	Dibenz(a,h)anthracene	551		29	5.9
206-44-0	Fluoranthene	1000		29	5.8
86-73-7	Fluorene	685		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	591		29	10
90-12-0	1-Methylnaphthalene	718		58	6.4
91-57-6	2-Methylnaphthalene	667		58	10
91-20-3	Naphthalene	648		58	6.4
85-01-8	Phenanthrene	918		12	5.6
129-00-0	Pyrene	1020		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21038.D
Lab Smp Id: 680-88298-a-21-c ms
Inj Date : 21-MAR-2013 22:17
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 37 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	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.739	3.739	(1.000)	969283	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	773955	40.0000	
* 10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1390983	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.044)	131271	6.25056	413.1237
* 18 Chrysene-d12	240	7.721	7.715	(1.000)	1480189	40.0000	
* 23 Perylene-d12	264	8.909	8.898	(1.000)	1390044	40.0000	
2 Naphthalene	128	3.751	3.751	(1.003)	169403	6.71326	443.7050
3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	116409	6.91583	457.0939
4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	113998	7.43619	491.4867
5 Acenaphthylene	152	4.739	4.739	(0.982)	196638	6.30181	416.5106
7 Acenaphthene	154	4.845	4.845	(1.004)	112398	5.79530	383.0337
9 Fluorene	166	5.168	5.162	(1.071)	174051	7.09598	469.0008
11 Phenanthrene	178	5.792	5.792	(1.003)	382692	9.51471	628.8639
12 Anthracene	178	5.827	5.821	(1.009)	268561	6.82736	451.2468

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.933	5.933	(1.028)	249057	7.12264	470.7629
15 Fluoranthene	202	6.627	6.627	(1.148)	457789	10.3932	686.9270
16 Pyrene	202	6.798	6.792	(0.880)	421398	10.5938	700.1822
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	341505	7.99382	528.3425
19 Chrysene	228	7.739	7.733	(1.002)	332563	7.77867	514.1221
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.960)	330808	9.10639	601.8764
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.963)	288560	7.74328	511.7829
22 Benzo(a)pyrene	252	8.850	8.845	(0.993)	273121	7.74033	511.5884
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	203281	6.12410	404.7655(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	185380	5.70962	377.3707
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.170)	199884	5.75648	380.4680

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21038.D

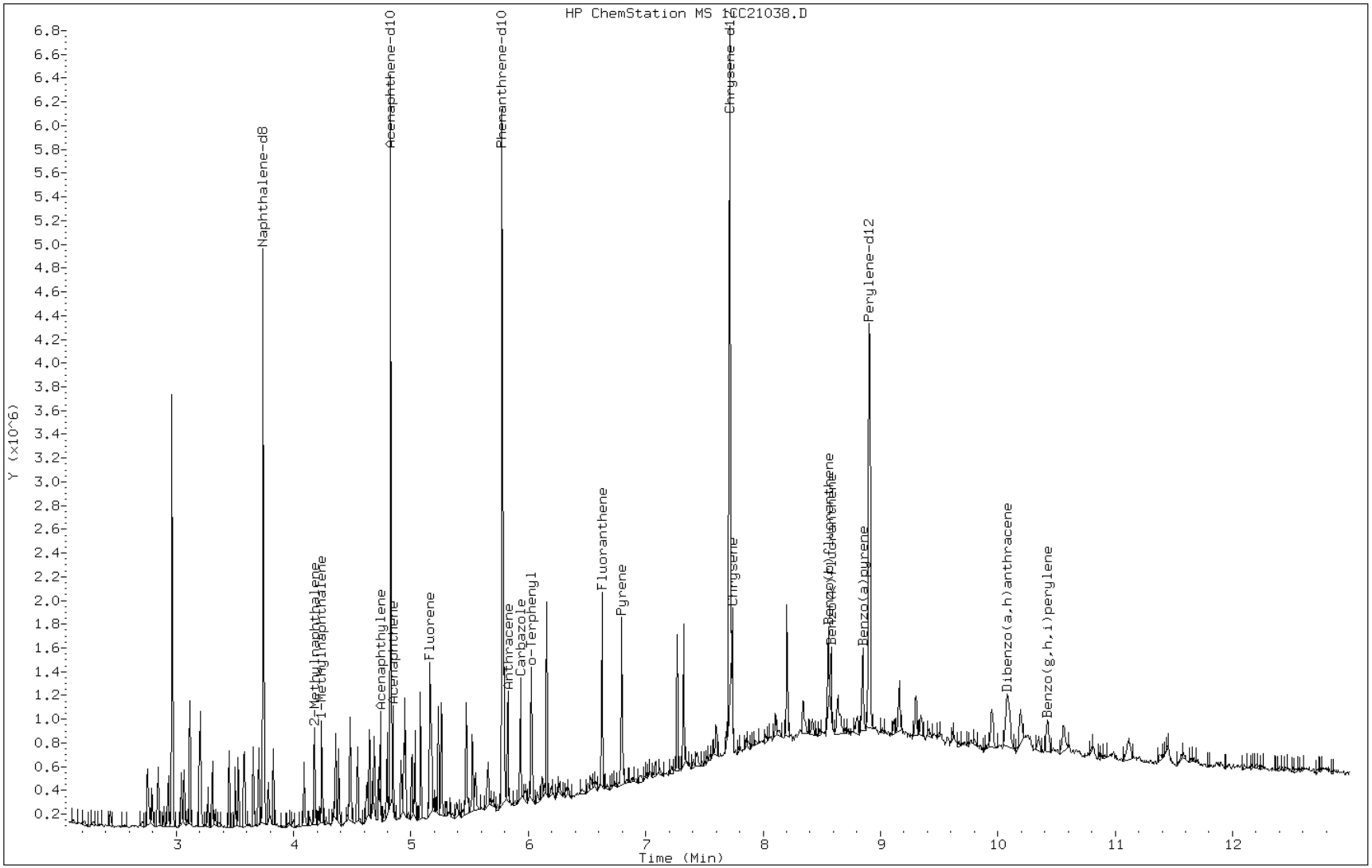
Date: 21-MAR-2013 22:17

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88298-a-21-c msd

Operator: SCC



Manual Integration Report

Data File: 1CC21038.D
Inj. Date and Time: 21-MAR-2013 22:17
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

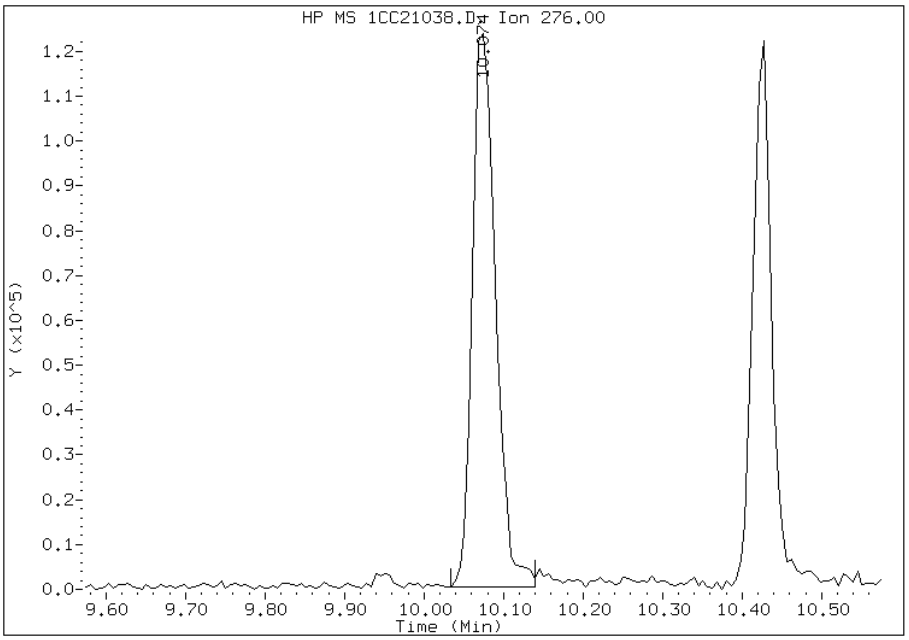
Processing Integration Results

RT: 10.07

Response: 250152

Amount: 8

Conc: 498



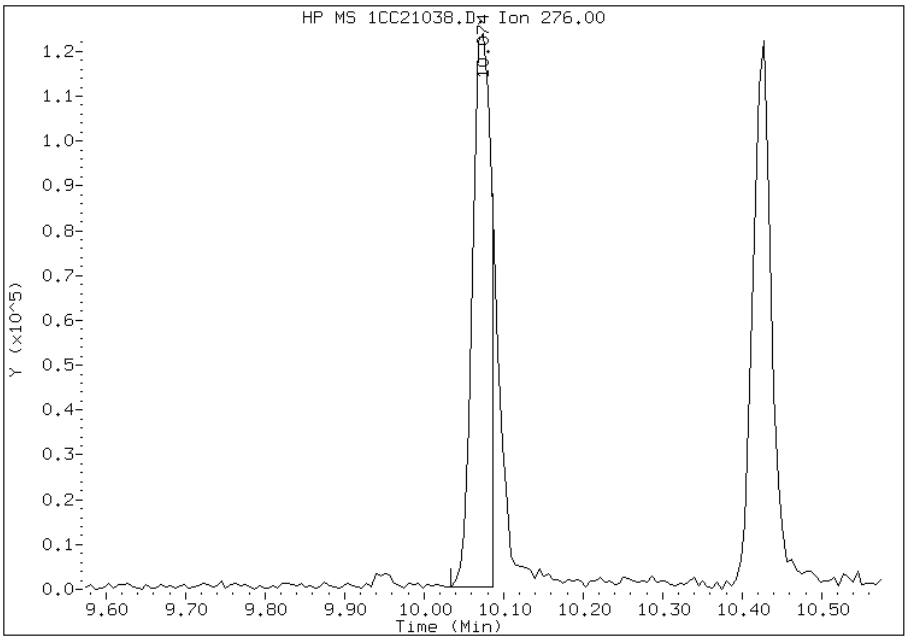
Manual Integration Results

RT: 10.07

Response: 203281

Amount: 6

Conc: 405



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88298-1

SDG No.: 68088298-1

Client Sample ID: CV0169B-CS-SP MSD | Lab Sample ID: 680-88298-4 MSD

Matrix: Solid | Lab File ID: 1CC20038.D

Analysis Method: 8270C LL | Date Collected: 03/12/2013 10:22

Extract. Method: 3546 | Date Extracted: 03/19/2013 08:27

Sample wt/vol: 15.28(g) | Date Analyzed: 03/20/2013 21:20

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

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

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135624 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580		520	100
208-96-8	Acenaphthylene	724		210	26
120-12-7	Anthracene	820		43	22
56-55-3	Benzo[a]anthracene	1360		41	20
50-32-8	Benzo[a]pyrene	1090		54	27
205-99-2	Benzo[b]fluoranthene	1420		63	32
191-24-2	Benzo[g,h,i]perylene	809		100	23
207-08-9	Benzo[k]fluoranthene	1190		41	19
218-01-9	Chrysene	1330		47	23
53-70-3	Dibenz(a,h)anthracene	634		100	21
206-44-0	Fluoranthene	2140		100	21
86-73-7	Fluorene	774		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	872		100	37
90-12-0	1-Methylnaphthalene	1080		210	23
91-57-6	2-Methylnaphthalene	953		210	37
91-20-3	Naphthalene	1000		210	23
85-01-8	Phenanthrene	2060		41	20
129-00-0	Pyrene	2070		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20038.D
Lab Smp Id: 680-88298-a-4-c msd
Inj Date : 20-MAR-2013 21:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88298-a-4-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 38 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	15.280	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	939866	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	736531	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1336805	40.0000	
$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	37090	1.83764	481.0580
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1436023	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1374694	40.0000	
2 Naphthalene	128	3.757	3.757	(1.003)	71077	2.90486	760.4357
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	45090	2.76263	723.2015
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	46406	3.12185	817.2387
5 Acenaphthylene	152	4.745	4.745	(0.983)	62320	2.09870	549.3971
7 Acenaphthene	154	4.851	4.851	(1.005)	31068	1.68328	440.6481
9 Fluorene	166	5.169	5.169	(1.071)	52408	2.24522	587.7531
11 Phenanthrene	178	5.792	5.792	(1.002)	231078	5.97804	1564.9311(R)
12 Anthracene	178	5.827	5.827	(1.008)	89889	2.37777	622.4537

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.939	5.933	(1.027)	80204	2.38667	624.7825
15 Fluoranthene	202	6.633	6.633	(1.148)	263071	6.21457	1626.8501(R)
16 Pyrene	202	6.798	6.798	(0.880)	231994	6.01160	1573.7173(R)
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	162900	3.93038	1028.8946(R)
19 Chrysene	228	7.739	7.739	(1.002)	160387	3.86684	1012.2619(R)
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	148243	4.12636	1080.1985(R)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	126998	3.44594	902.0791(R)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	109829	3.14734	823.9117
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	82976	2.52767	661.6941(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.098	(1.133)	59054	1.83915	481.4517
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	80600	2.34713	614.4311

QC Flag Legend

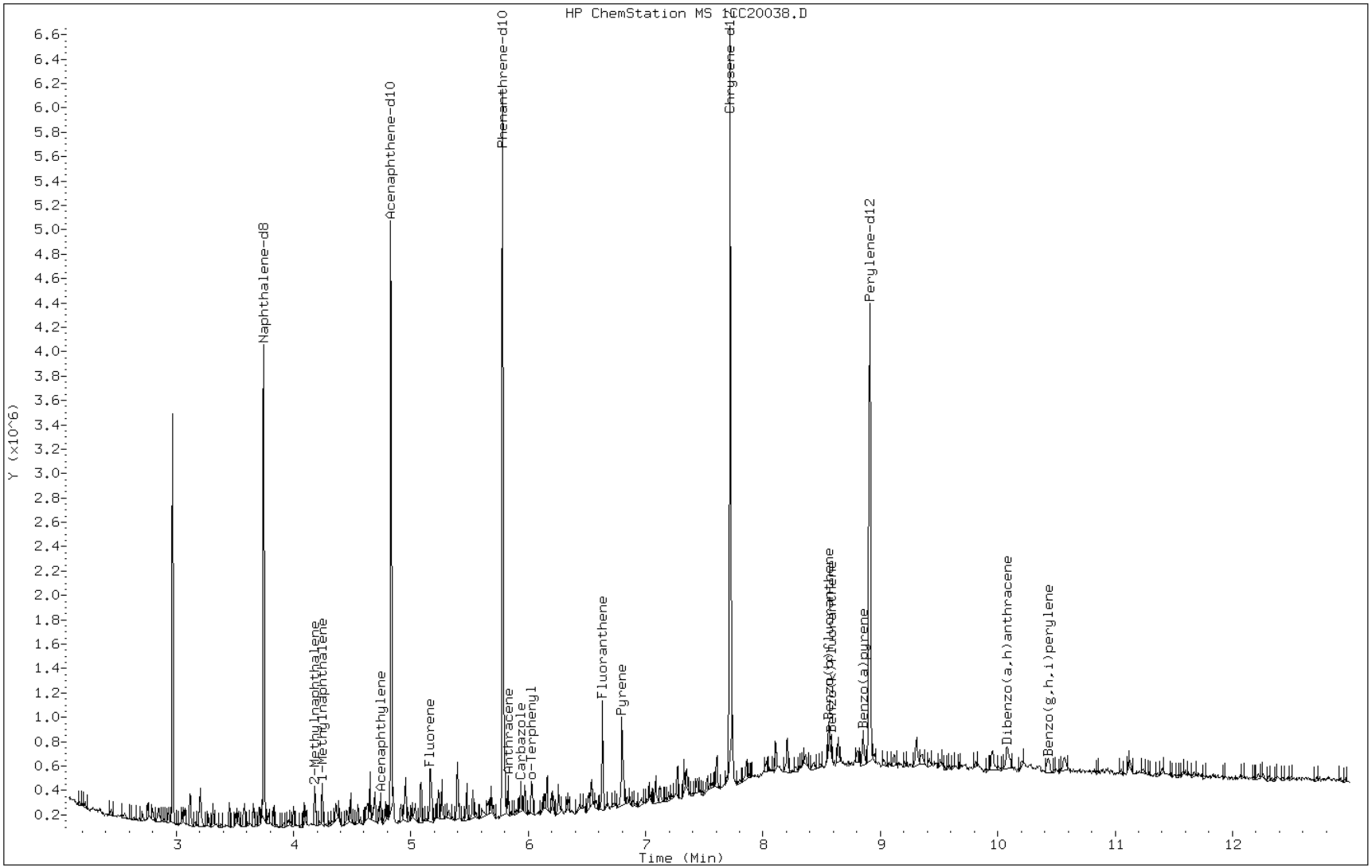
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC20038.D

Date: 20-MAR-2013 21:20

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88298-a-4-c msd Operator: SCC



Manual Integration Report

Data File: 1CC20038.D
Inj. Date and Time: 20-MAR-2013 21:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

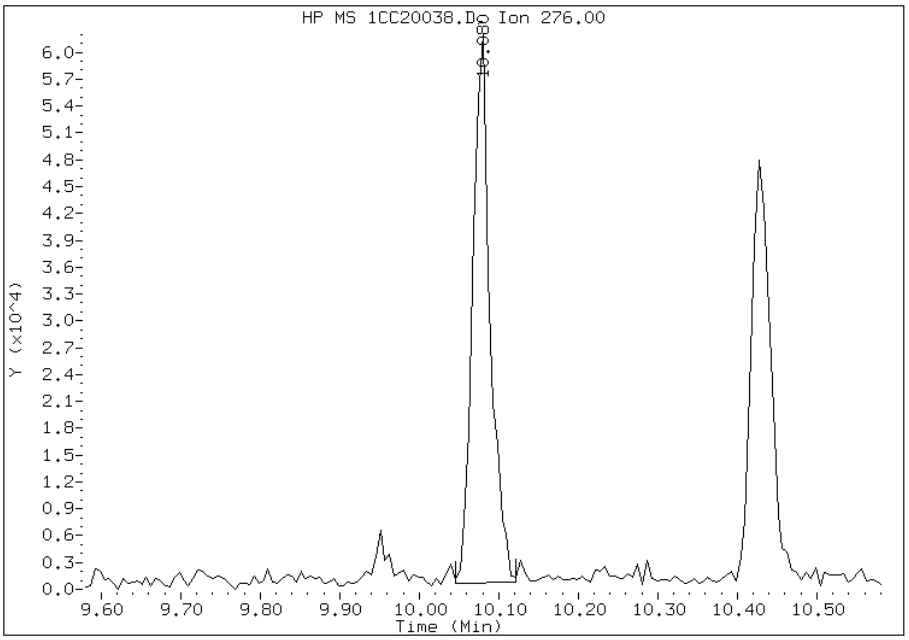
Processing Integration Results

RT: 10.08

Response: 93356

Amount: 3

Conc: 744



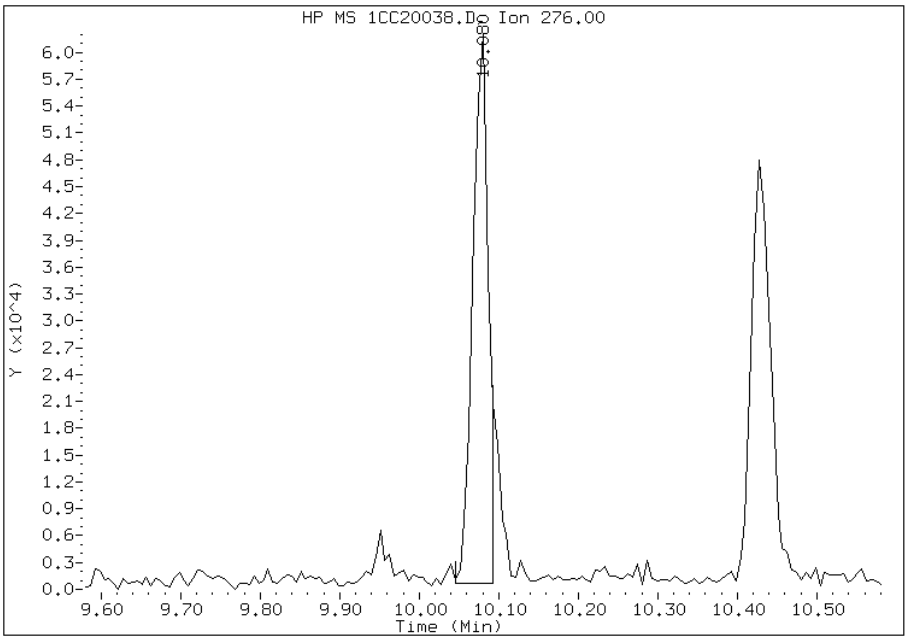
Manual Integration Results

RT: 10.08

Response: 82976

Amount: 3

Conc: 662



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 11:55
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04

Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250(um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250(um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250(um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250(um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250(um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250(um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250(um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250(um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250(um)
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ZZZZZ		02/22/2013 16:34	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 17:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Start Date: 03/20/2013 10:01

Analysis Batch Number: 135624 End Date: 03/20/2013 22:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/20/2013 10:01	1		DB-5MS 250(um)
DFTPP 660-135624/2		03/20/2013 10:19	1	1CC20002.D	DB-5MS 250(um)
CCVIS 660-135624/3		03/20/2013 10:36	1	1CC20003.D	DB-5MS 250(um)
ZZZZZ		03/20/2013 10:56	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 11:14	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 11:32	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 11:51	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 12:09	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 12:28	4		DB-5MS 250(um)
ZZZZZ		03/20/2013 12:46	4		DB-5MS 250(um)
ZZZZZ		03/20/2013 13:04	4		DB-5MS 250(um)
ZZZZZ		03/20/2013 13:23	4		DB-5MS 250(um)
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ZZZZZ		03/20/2013 14:00	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 14:18	4		DB-5MS 250(um)
ZZZZZ		03/20/2013 14:36	4		DB-5MS 250(um)
ZZZZZ		03/20/2013 14:55	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 15:13	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 15:31	1		DB-5MS 250(um)
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ZZZZZ		03/20/2013 16:27	1		DB-5MS 250(um)
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ZZZZZ		03/20/2013 17:03	4		DB-5MS 250(um)
ZZZZZ		03/20/2013 17:22	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 17:59	1		DB-5MS 250(um)
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MB 660-135524/1-A		03/20/2013 18:35	1	1CC20029.D	DB-5MS 250(um)
LCS 660-135524/2-A		03/20/2013 18:54	1	1CC20030.D	DB-5MS 250(um)
ZZZZZ		03/20/2013 19:12	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 19:30	4		DB-5MS 250(um)
680-88298-1	CV0150A-CS-SP	03/20/2013 19:49	4	1CC20033.D	DB-5MS 250(um)
680-88298-2	CV0150B-CS-SP	03/20/2013 20:07	1	1CC20034.D	DB-5MS 250(um)
680-88298-3	CV0169A-CS-SP	03/20/2013 20:25	1	1CC20035.D	DB-5MS 250(um)
680-88298-4	CV0169B-CS-SP	03/20/2013 20:44	4	1CC20036.D	DB-5MS 250(um)
680-88298-4 MS	CV0169B-CS-SP MS	03/20/2013 21:02	4	1CC20037.D	DB-5MS 250(um)
680-88298-4 MSD	CV0169B-CS-SP MSD	03/20/2013 21:20	4	1CC20038.D	DB-5MS 250(um)
680-88298-5	CV0227A-CS-SP	03/20/2013 21:39	1	1CC20039.D	DB-5MS 250(um)
680-88298-6	CV0227B-CS-SP	03/20/2013 21:57	1	1CC20040.D	DB-5MS 250(um)
680-88298-7	CV0614A-CS-SP	03/20/2013 22:16	4	1CC20041.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMC5973 Start Date: 03/21/2013 10:38

Analysis Batch Number: 135643 End Date: 03/21/2013 23:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2013 10:38	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 10:57	1		DB-5MS 250(um)
DFTPP 660-135643/2		03/21/2013 11:15	1		DB-5MS 250(um)
DFTPP 660-135643/3		03/21/2013 11:33	1	1CC21003.D	DB-5MS 250(um)
CCVIS 660-135643/4		03/21/2013 11:50	1	1CC21004.D	DB-5MS 250(um)
ZZZZZ		03/21/2013 12:10	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 12:29	4		DB-5MS 250(um)
ZZZZZ		03/21/2013 12:47	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 13:05	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 13:24	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 13:42	4		DB-5MS 250(um)
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ZZZZZ		03/21/2013 14:19	4		DB-5MS 250(um)
680-88298-10 DL	CV1033A-CS DL	03/21/2013 14:37	4	1CC21013.D	DB-5MS 250(um)
ZZZZZ		03/21/2013 14:55	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 15:14	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 15:32	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 15:51	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 16:28	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 16:46	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 17:05	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 17:23	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 18:00	4		DB-5MS 250(um)
ZZZZZ		03/21/2013 18:18	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 18:37	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 18:56	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 19:14	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 19:32	4		DB-5MS 250(um)
ZZZZZ		03/21/2013 19:51	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 20:09	1		DB-5MS 250(um)
MB 660-135556/1-A		03/21/2013 20:27	1	1CC21032.D	DB-5MS 250(um)
LCS 660-135556/2-A		03/21/2013 20:46	1	1CC21033.D	DB-5MS 250(um)
680-88298-19	FM0020B-CS	03/21/2013 21:04	1	1CC21034.D	DB-5MS 250(um)
680-88298-20	FM0020B-CSD	03/21/2013 21:22	1	1CC21035.D	DB-5MS 250(um)
ZZZZZ		03/21/2013 21:40	1		DB-5MS 250(um)
680-88298-A-21-B MS		03/21/2013 21:59	1	1CC21037.D	DB-5MS 250(um)
680-88298-A-21-C MSD		03/21/2013 22:17	1	1CC21038.D	DB-5MS 250(um)
ZZZZZ		03/21/2013 22:36	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 22:54	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 23:13	1		DB-5MS 250(um)
ZZZZZ		03/21/2013 23:31	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10

Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250(um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250(um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250(um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250(um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250(um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250(um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250(um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250(um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250(um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: BSMD5973 Start Date: 03/20/2013 10:34

Analysis Batch Number: 135596 End Date: 03/20/2013 20:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/20/2013 10:34	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 11:00	1		DB-5MS 250(um)
DFTPP 660-135596/2		03/20/2013 11:24	1	1DC20002.D	DB-5MS 250(um)
CCVIS 660-135596/3		03/20/2013 11:51	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 12:16	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 12:42	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 13:08	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 13:34	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 14:00	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 14:52	1		DB-5MS 250(um)
ZZZZZ		03/20/2013 15:31	1		DB-5MS 250(um)
CCVIS 660-135596/13		03/20/2013 15:54	1	1DC20012.D	DB-5MS 250(um)
ZZZZZ		03/20/2013 16:16	1		DB-5MS 250(um)
680-88298-8	CV0614B-CS-SP	03/20/2013 16:39	1	1DC20014.D	DB-5MS 250(um)
680-88298-9	CV1033A-CSD	03/20/2013 17:02	4	1DC20015.D	DB-5MS 250(um)
680-88298-10	CV1033A-CS	03/20/2013 17:24	1	1DC20016.D	DB-5MS 250(um)
680-88298-11	CV1149A-CS	03/20/2013 17:47	4	1DC20017.D	DB-5MS 250(um)
680-88298-12	CV1149B-CS	03/20/2013 18:10	4	1DC20018.D	DB-5MS 250(um)
680-88298-13	CV1199A-CS	03/20/2013 18:32	1	1DC20019.D	DB-5MS 250(um)
680-88298-14	CV1199B-CS	03/20/2013 18:55	4	1DC20020.D	DB-5MS 250(um)
680-88298-15	CV1310A-CS	03/20/2013 19:17	4	1DC20021.D	DB-5MS 250(um)
680-88298-16	CV1355A-CS	03/20/2013 19:40	4	1DC20022.D	DB-5MS 250(um)
680-88298-17	CV1355B-CS	03/20/2013 20:02	1	1DC20023.D	DB-5MS 250(um)
680-88298-18	FM0020A-CS	03/20/2013 20:25	1	1DC20024.D	DB-5MS 250(um)
ZZZZZ		03/20/2013 20:50	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Batch Number: 135524 Batch Start Date: 03/19/13 08:27 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/19/13 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135524/1		3546, 8270C LL		15.46 g	1 mL		1 mL		
LCS 660-135524/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL		
680-88298-A-1	CV0150A-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88298-A-2	CV0150B-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88298-A-3	CV0169A-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-88298-A-4	CV0169B-CS-SP	3546, 8270C LL	T	15.28 g	1 mL		1 mL		
680-88298-A-4 MS	CV0169B-CS-SP	3546, 8270C LL	T	15.24 g	1 mL	1 mL	1 mL		
680-88298-A-4 MSD	CV0169B-CS-SP	3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-88298-A-5	CV0227A-CS-SP	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88298-A-6	CV0227B-CS-SP	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-88298-A-7	CV0614A-CS-SP	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-88298-A-8	CV0614B-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88298-A-9	CV1033A-CSD	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88298-A-10	CV1033A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88298-A-11	CV1149A-CS	3546, 8270C LL	T	15.29 g	1 mL		1 mL		
680-88298-A-12	CV1149B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88298-A-13	CV1199A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88298-A-14	CV1199B-CS	3546, 8270C LL	T	15.36 g	1 mL		1 mL		
680-88298-A-15	CV1310A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88298-A-16	CV1355A-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88298-A-17	CV1355B-CS	3546, 8270C LL	T	15.07 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.: 680-88298-1

SDG No.: 68088298-1

Batch Number: 135524 Batch Start Date: 03/19/13 08:27 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/19/13 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
680-88298-A-18	FM0020A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON_45
Microwave Start Time	10:00 3/19/13
Microwave Stop Time	10:35 3/19/13
Na2SO4 Lot Number	EX-NA2S04A_63/64
Ottawa Sand Lot #	EX-OTTOWA SAND_13
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Batch Number: 135556 Batch Start Date: 03/20/13 08:31 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/27/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135556/1		3546, 8270C LL		15.40 g	1 mL		1 mL		
LCS 660-135556/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL		
680-88298-A-19	FM0020B-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-88298-A-20	FM0020B-CSD	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-88298-A-21 MS		3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-88298-A-21 MSD		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 45
Microwave Start Time	10:00 3/20/13
Microwave Stop Time	10:35 3/20/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Batch Number: 135556 Batch Start Date: 03/20/13 08:31 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/27/13 15:00

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: 680-88298-1

SDG No.: 68088298-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0150A-CS-SP	680-88298-1
CV0150B-CS-SP	680-88298-2
CV0169A-CS-SP	680-88298-3
CV0169B-CS-SP	680-88298-4
CV0227A-CS-SP	680-88298-5
CV0227B-CS-SP	680-88298-6
CV0614A-CS-SP	680-88298-7
CV0614B-CS-SP	680-88298-8
CV1033A-CSD	680-88298-9
CV1033A-CS	680-88298-10
CV1149A-CS	680-88298-11
CV1149B-CS	680-88298-12
CV1199A-CS	680-88298-13
CV1199B-CS	680-88298-14
CV1310A-CS	680-88298-15
CV1355A-CS	680-88298-16
CV1355B-CS	680-88298-17
FM0020A-CS	680-88298-18
FM0020B-CS	680-88298-19
FM0020B-CSD	680-88298-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88298-1

SDG Number: 68088298-1

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: 680-88298-1

SDG Number: 68088298-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 03/18/2013 08:34   End Date: 03/18/2013 08:34

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-135482/1	1	T	08:34	X																			
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
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680-88298-1	1	T	08:34	X																			
680-88298-2	1	T	08:34	X																			
680-88298-3	1	T	08:34	X																			
680-88298-4	1	T	08:34	X																			
680-88298-4 MS	1	T	08:34	X																			
680-88298-4 MSD	1	T	08:34	X																			
680-88298-5	1	T	08:34	X																			
680-88298-6	1	T	08:34	X																			
680-88298-7	1	T	08:34	X																			
680-88298-8	1	T	08:34	X																			
ZZZZZZ			08:34																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/18/2013 08:34 End Date: 03/18/2013 08:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
680-88298-A-21 MS	1	T	08:34	X																			
680-88298-A-21 MSD	1	T	08:34	X																			
680-88298-9	1	T	08:34	X																			
680-88298-10	1	T	08:34	X																			
680-88298-11	1	T	08:34	X																			
680-88298-12	1	T	08:34	X																			
680-88298-13	1	T	08:34	X																			
680-88298-14	1	T	08:34	X																			
680-88298-15	1	T	08:34	X																			
680-88298-16	1	T	08:34	X																			
680-88298-17	1	T	08:34	X																			
680-88298-18	1	T	08:34	X																			
680-88298-19	1	T	08:34	X																			
680-88298-20	1	T	08:34	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Batch Number: 135482 Batch Start Date: 03/18/13 08:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135482/1		Moisture		mb	0 g	9.60 g	9.60 g		
680-88298-A-1	CV0150A-CS-SP	Moisture	T	30	0 g	4.49 g	3.42 g		
680-88298-A-2	CV0150B-CS-SP	Moisture	T	31	0 g	4.92 g	3.75 g		
680-88298-A-3	CV0169A-CS-SP	Moisture	T	32	0 g	4.47 g	3.57 g		
680-88298-A-4	CV0169B-CS-SP	Moisture	T	33	0 g	4.40 g	3.34 g		
680-88298-A-4 MS	CV0169B-CS-SP	Moisture	T	33	0 g	4.40 g	3.34 g		
680-88298-A-4 MSD	CV0169B-CS-SP	Moisture	T	33	0 g	4.40 g	3.34 g		
680-88298-A-5	CV0227A-CS-SP	Moisture	T	34	0 g	6.21 g	5.09 g		
680-88298-A-6	CV0227B-CS-SP	Moisture	T	35	0 g	4.08 g	3.14 g		
680-88298-A-7	CV0614A-CS-SP	Moisture	T	36	0 g	4.13 g	3.15 g		
680-88298-A-8	CV0614B-CS-SP	Moisture	T	37	0 g	4.72 g	3.84 g		
680-88298-A-21 MS		Moisture	T	38	0 g	4.38 g	3.00 g		
680-88298-A-21 MSD		Moisture	T	38	0 g	4.38 g	3.00 g		
680-88298-A-9	CV1033A-CSD	Moisture	T	39	0 g	4.21 g	3.16 g		
680-88298-A-10	CV1033A-CS	Moisture	T	40	0 g	4.14 g	3.07 g		
680-88298-A-11	CV1149A-CS	Moisture	T	41	0 g	4.66 g	3.44 g		
680-88298-A-12	CV1149B-CS	Moisture	T	42	0 g	4.80 g	3.62 g		
680-88298-A-13	CV1199A-CS	Moisture	T	43	0 g	4.32 g	2.91 g		
680-88298-A-14	CV1199B-CS	Moisture	T	44	0 g	4.51 g	3.53 g		
680-88298-A-15	CV1310A-CS	Moisture	T	45	0 g	4.86 g	3.76 g		
680-88298-A-16	CV1355A-CS	Moisture	T	46	0 g	4.07 g	2.91 g		
680-88298-A-17	CV1355B-CS	Moisture	T	47	0 g	4.20 g	2.96 g		
680-88298-A-18	FM0020A-CS	Moisture	T	48	0 g	5.18 g	3.31 g		
680-88298-A-19	FM0020B-CS	Moisture	T	49	0 g	4.96 g	3.23 g		
680-88298-A-20	FM0020B-CSD	Moisture	T	50	0 g	5.51 g	3.71 g		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88298-1

SDG No.: 68088298-1

Batch Number: 135482 Batch Start Date: 03/18/13 08:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.18.13
Oven Temp when samples are put in oven	106 Degrees C
Time samples were place in the oven	09:08
Date samples were removed from oven	3.18.13
Oven Temp when samples removed from oven	105.8 Degrees C
Time Samples were removed from oven	13:10
Oven ID	4
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	104.8 Celsius

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 59594

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Avenue Removal	200148-1352	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...))

REQUIRED ANALYSIS: CLP AA Metals

PRESERVATIVE

PAGE 1 OF 3

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMP (C)	AQUEOUS	SOLID/SEMISOLID	AIR	NONAQUEOUS LIQUID	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/12/13	0935	CV0150A-CS-SP	C		✓			X	
	0947	CV0150B-CS-SP	C		✓			X	
	1010	CV0169A-CS-SP	C		✓			X	
	1022	CV0169B-CS-SP	C		✓			X	
	1045	CV0227A-CS-SP	C		✓			X	
	1100	CV0227B-CS-SP	C		✓			X	
	0843	CV0614A-CS-SP	C		✓			X	
	0855	CV0614B-CS-SP	C		✓			X	
	1050	CV1033A-CSD	C		✓			X	
	1050	CV1033A-CS	C		✓			X	
	1305	CV1149A-CS	C		✓			X	
	1315	CV1149B-CS	C		✓			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/13/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/14/13	0944	YES ○ NO ○		680 58298	1.4 °C

TAL8240-680 (1008)

Serial Number 59595

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

✓ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	2005148-1356	AL	2	3

TAL (LAB) PROJECT MANAGER: Lisa Harvey
P.O. NUMBER:
CONTRACT NO.:
CLIENT FAX:
CLIENT NAME:
CLIENT E-MAIL:
CLIENT ADDRESS:
COMPANY CONTRACTING THIS WORK (if applicable):

REQUIRED ANALYSIS: LLPAH; RCRA 8
PRESERVATIVE

STANDARD REPORT DELIVERY ○ DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	RCRA 8								REMARKS
3/12/13	1235	CV1199A-CS	C		✓			X									
	1245	CV1199B-CS	C		✓			X									
	1340	CV1310A-CS	C		✓			X									
	1400	CV1355A-CS	C		✓			X									
	1410	CV1355B-CS	C		✓			X									
	0915	FM0020A-CS	C		✓			X									
	0930	FM0020B-CS	C		✓			X									
	0930	FM0020B-CSD	C		✓			X									
	0945	FM0020C-CS	C		✓			X									
	0950	FM0020D-GS	G		✓			X									
	1015	FM0334A-CS	C		✓			X									
	1025	FM0334B-CS	C		✓			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/13/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/14/13	0944	YES ○ NO ○		680-88298	1.4°C

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
SDG Number: 68088298-1

Login Number: 88298
List Source: TestAmerica Savannah
List Number: 1
Creator: Barnett, Eddie T

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 680-88298-1
SDG Number: 68088298-1

Login Number: 88298
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/15/13 10:19 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88298-1
TestAmerica Sample Delivery Group: 68088298-1
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:
3/26/2013 5:18:10 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-88298-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88298-1

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 03/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0150A-CS-SP (680-88298-1), CV0150B-CS-SP (680-88298-2), CV0169A-CS-SP (680-88298-3), CV0169B-CS-SP (680-88298-4), CV0227A-CS-SP (680-88298-5), CV0227B-CS-SP (680-88298-6), CV0614A-CS-SP (680-88298-7), CV0614B-CS-SP (680-88298-8), CV1033A-CSD (680-88298-9), CV1033A-CS (680-88298-10), CV1149A-CS (680-88298-11), CV1149B-CS (680-88298-12), CV1199A-CS (680-88298-13), CV1199B-CS (680-88298-14), CV1310A-CS (680-88298-15), CV1355A-CS (680-88298-16), CV1355B-CS (680-88298-17), FM0020A-CS (680-88298-18), FM0020B-CS (680-88298-19) and FM0020B-CSD (680-88298-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/19/2013 and 03/20/2013 and analyzed on 03/20/2013 and 03/21/2013.

Samples CV0150A-CS-SP (680-88298-1)[4X], CV0169B-CS-SP (680-88298-4)[4X], CV0614A-CS-SP (680-88298-7)[4X], CV1033A-CSD (680-88298-9)[4X], CV1033A-CS (680-88298-10)[4X], CV1149A-CS (680-88298-11)[4X], CV1149B-CS (680-88298-12)[4X], CV1199B-CS (680-88298-14)[4X], CV1310A-CS (680-88298-15)[4X] and CV1355A-CS (680-88298-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0169B-CS-SP (680-88298-4) in batch 660-135624. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88298-1	CV0150A-CS-SP	Solid	03/12/13 09:35	03/14/13 09:44
680-88298-2	CV0150B-CS-SP	Solid	03/12/13 09:47	03/14/13 09:44
680-88298-3	CV0169A-CS-SP	Solid	03/12/13 10:10	03/14/13 09:44
680-88298-4	CV0169B-CS-SP	Solid	03/12/13 10:22	03/14/13 09:44
680-88298-5	CV0227A-CS-SP	Solid	03/12/13 10:45	03/14/13 09:44
680-88298-6	CV0227B-CS-SP	Solid	03/12/13 11:00	03/14/13 09:44
680-88298-7	CV0614A-CS-SP	Solid	03/12/13 08:43	03/14/13 09:44
680-88298-8	CV0614B-CS-SP	Solid	03/12/13 08:55	03/14/13 09:44
680-88298-9	CV1033A-CSD	Solid	03/12/13 10:50	03/14/13 09:44
680-88298-10	CV1033A-CS	Solid	03/12/13 10:50	03/14/13 09:44
680-88298-11	CV1149A-CS	Solid	03/12/13 13:05	03/14/13 09:44
680-88298-12	CV1149B-CS	Solid	03/12/13 13:15	03/14/13 09:44
680-88298-13	CV1199A-CS	Solid	03/12/13 12:35	03/14/13 09:44
680-88298-14	CV1199B-CS	Solid	03/12/13 12:45	03/14/13 09:44
680-88298-15	CV1310A-CS	Solid	03/12/13 13:40	03/14/13 09:44
680-88298-16	CV1355A-CS	Solid	03/12/13 14:00	03/14/13 09:44
680-88298-17	CV1355B-CS	Solid	03/12/13 14:10	03/14/13 09:44
680-88298-18	FM0020A-CS	Solid	03/12/13 09:15	03/14/13 09:44
680-88298-19	FM0020B-CS	Solid	03/12/13 09:30	03/14/13 09:44
680-88298-20	FM0020B-CSD	Solid	03/12/13 09:30	03/14/13 09:44

Method Summary

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

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
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds he control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error 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: CV0150A-CS-SP

Lab Sample ID: 680-88298-1

Date Collected: 03/12/13 09:35
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Anthracene	**37**	**J**	44	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[a]anthracene	**180**		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[a]pyrene	**130**		54	27	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[b]fluoranthene	**260**		64	32	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[g,h,i]perylene	**110**		100	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Benzo[k]fluoranthene	**100**		42	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Chrysene	**200**		47	24	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Dibenz(a,h)anthracene	**57**	**J**	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Fluoranthene	**210**		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Fluorene	100	U	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Indeno[1,2,3-cd]pyrene	**100**		100	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
1-Methylnaphthalene	**150**	**J**	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
2-Methylnaphthalene	**230**		210	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Naphthalene	**180**	**J**	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Phenanthrene	**230**		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4
Pyrene	**190**		100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/19/13 08:27*	*03/20/13 19:49*	*4*

Client Sample ID: CV0150B-CS-SP

Lab Sample ID: 680-88298-2

Date Collected: 03/12/13 09:47
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Acenaphthylene	**42**	**J**	52	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Anthracene	**57**		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[a]anthracene	**190**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[a]pyrene	**210**		14	6.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[b]fluoranthene	**350**		16	8.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[g,h,i]perylene	**140**		26	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Benzo[k]fluoranthene	**130**		10	4.7	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Chrysene	**300**		12	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Dibenz(a,h)anthracene	**51**		26	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Fluoranthene	**370**		26	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Fluorene	**26**		26	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Indeno[1,2,3-cd]pyrene	**88**		26	9.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
1-Methylnaphthalene	**91**		52	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
2-Methylnaphthalene	**110**		52	9.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Naphthalene	**120**		52	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Phenanthrene	**280**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1
Pyrene	**340**		26	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:07*	*1*

Client Sample ID: CV0169A-CS-SP

Lab Sample ID: 680-88298-3

Date Collected: 03/12/13 10:10
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Acenaphthylene	**16**	**J**	49	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Anthracene	**36**		10	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]anthracene	**150**		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]pyrene	**110**		13	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[b]fluoranthene	**180**		15	7.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[g,h,i]perylene	**79**		25	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[k]fluoranthene	**83**		9.8	4.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Chrysene	**170**		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Dibenz(a,h)anthracene	**25**		25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluoranthene	**220**		25	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluorene	**10**	**J**	25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Indeno[1,2,3-cd]pyrene	**77**		25	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
1-Methylnaphthalene	**120**		49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
2-Methylnaphthalene	**120**		49	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Naphthalene	**94**		49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Phenanthrene	**210**		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Pyrene	**230**		25	4.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:25*	*1*

Client Sample ID: CV0169B-CS-SP

Lab Sample ID: 680-88298-4

Date Collected: 03/12/13 10:22
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Acenaphthylene	**55**	**J**	210	26	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Anthracene	**76**		43	22	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[a]anthracene	**500**	**F**	41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[a]pyrene	**370**	**F**	54	27	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[b]fluoranthene	**550**	**F**	63	32	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[g,h,i]perylene	**290**		100	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Benzo[k]fluoranthene	**200**		41	19	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Chrysene	**570**	**F**	47	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Dibenz(a,h)anthracene	**110**		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Fluoranthene	**760**	**F**	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Fluorene	**55**	**J**	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Indeno[1,2,3-cd]pyrene	**180**		100	37	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
1-Methylnaphthalene	**440**		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
2-Methylnaphthalene	**320**		210	37	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Naphthalene	**290**		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Phenanthrene	**770**	**F**	41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4
Pyrene	**710**	**F**	100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 20:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:44*	*4*

Client Sample ID: CV0227A-CS-SP

Lab Sample ID: 680-88298-5

Date Collected: 03/12/13 10:45
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Acenaphthylene	**35**	**J**	49	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Anthracene	**40**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[a]anthracene	**240**		9.7	4.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[a]pyrene	**260**		13	6.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[b]fluoranthene	**390**		15	7.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[g,h,i]perylene	**160**		24	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Benzo[k]fluoranthene	**170**		9.7	4.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Chrysene	**330**		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Dibenz(a,h)anthracene	**53**		24	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Fluoranthene	**420**		24	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Fluorene	**17**	**J**	24	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Indeno[1,2,3-cd]pyrene	**160**		24	8.6	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
1-Methylnaphthalene	**110**		49	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
2-Methylnaphthalene	**110**		49	8.6	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Naphthalene	**96**		49	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Phenanthrene	**290**		9.7	4.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1
Pyrene	**400**		24	4.5	ug/Kg	☼	03/19/13 08:27	03/20/13 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*03/19/13 08:27*	*03/20/13 21:39*	*1*

Client Sample ID: CV0227B-CS-SP

Lab Sample ID: 680-88298-6

Date Collected: 03/12/13 11:00
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Acenaphthylene	**15**	**J**	52	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Anthracene	**30**		11	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[a]anthracene	**150**		10	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[a]pyrene	**170**		13	6.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[b]fluoranthene	**280**		16	7.9	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[g,h,i]perylene	**130**		26	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Benzo[k]fluoranthene	**69**		10	4.6	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Chrysene	**160**		12	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Dibenz(a,h)anthracene	**41**		26	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Fluoranthene	**250**		26	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Fluorene	**17**	**J**	26	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Indeno[1,2,3-cd]pyrene	**110**		26	9.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
1-Methylnaphthalene	**52**		52	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
2-Methylnaphthalene	**85**		52	9.1	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Naphthalene	**86**		52	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Phenanthrene	**160**		10	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1
Pyrene	**240**		26	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*03/19/13 08:27*	*03/20/13 21:57*	*1*

Client Sample ID: CV0614A-CS-SP

Lab Sample ID: 680-88298-7

Date Collected: 03/12/13 08:43
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Acenaphthylene	**55**	**J**	200	25	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Anthracene	**71**		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[a]anthracene	**440**		41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[a]pyrene	**410**		53	26	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[b]fluoranthene	**580**		62	31	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[g,h,i]perylene	**260**		100	22	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Benzo[k]fluoranthene	**440**		41	18	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Chrysene	**500**		46	23	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Dibenz(a,h)anthracene	**110**		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Fluoranthene	**650**		100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Fluorene	**28**	**J**	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Indeno[1,2,3-cd]pyrene	**230**		100	36	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
1-Methylnaphthalene	**180**	**J**	200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
2-Methylnaphthalene	**260**		200	36	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Naphthalene	**180**	**J**	200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Phenanthrene	**520**		41	20	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4
Pyrene	**640**		100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 22:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/19/13 08:27*	*03/20/13 22:16*	*4*

Client Sample ID: CV0614B-CS-SP

Lab Sample ID: 680-88298-8

Date Collected: 03/12/13 08:55
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Acenaphthylene	**16**	**J**	49	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Anthracene	**26**		10	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[a]anthracene	**110**		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[a]pyrene	**110**		13	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[b]fluoranthene	**210**		15	7.5	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[g,h,i]perylene	**98**		25	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Benzo[k]fluoranthene	**68**		9.8	4.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Chrysene	**140**		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Dibenz(a,h)anthracene	**28**		25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Fluoranthene	**160**		25	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Fluorene	**5.0**	**J**	25	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Indeno[1,2,3-cd]pyrene	**83**		25	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
1-Methylnaphthalene	**46**	**J**	49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
2-Methylnaphthalene	**60**		49	8.7	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Naphthalene	**49**		49	5.4	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Phenanthrene	**97**		9.8	4.8	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1
Pyrene	**130**		25	4.5	ug/Kg	☼	03/19/13 08:27	03/20/13 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/19/13 08:27*	*03/20/13 16:39*	*1*

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Client Sample ID: CV1033A-CSD

Lab Sample ID: 680-88298-9
Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	J	530	110	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Acenaphthylene	150	J	210	27	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Anthracene	780		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[a]anthracene	2100		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[a]pyrene	1600		56	28	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[b]fluoranthene	2700		65	33	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[g,h,i]perylene	1100		110	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Benzo[k]fluoranthene	920		43	19	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Chrysene	1900		48	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Dibenz(a,h)anthracene	350		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Fluoranthene	4800		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Fluorene	340		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Indeno[1,2,3-cd]pyrene	1000		110	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
1-Methylnaphthalene	270		210	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
2-Methylnaphthalene	240		210	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Naphthalene	300		210	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Phenanthrene	3300		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4
Pyrene	3400		110	20	ug/Kg	☼	03/19/13 08:27	03/20/13 17:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*03/19/13 08:27*	*03/20/13 17:02*	*4*

Client Sample ID: CV1033A-CS

Lab Sample ID: 680-88298-10
Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570		140	27	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Acenaphthylene	170		54	6.8	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Anthracene	1100		11	5.7	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[a]anthracene	2600		11	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[a]pyrene	2200		14	7.0	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[b]fluoranthene	3900		16	8.2	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[g,h,i]perylene	920		27	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Benzo[k]fluoranthene	1300		11	4.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Chrysene	2300		12	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Dibenz(a,h)anthracene	300		27	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Fluorene	490		27	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Indeno[1,2,3-cd]pyrene	960		27	9.6	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
1-Methylnaphthalene	360		54	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
2-Methylnaphthalene	360		54	9.6	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Naphthalene	470		54	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Phenanthrene	4400		11	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1
Pyrene	4200		27	5.0	ug/Kg	☼	03/19/13 08:27	03/20/13 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*03/19/13 08:27*	*03/20/13 17:24*	*1*

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Client Sample ID: CV1033A-CS

Lab Sample ID: 680-88298-10
Date Collected: 03/12/13 10:50
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5000		110	22	ug/Kg	☼	03/19/13 08:27	03/21/13 14:37	4

Client Sample ID: CV1149A-CS

Lab Sample ID: 680-88298-11
Date Collected: 03/12/13 13:05
Matrix: Solid
Date Received: 03/14/13 09:44
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	120	J	530	110	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Acenaphthylene	120	J	210	27	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Anthracene	340		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[a]anthracene	1300		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[a]pyrene	1100		55	28	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[b]fluoranthene	1900		65	32	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[g,h,i]perylene	500		110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Benzo[k]fluoranthene	590		43	19	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Chrysene	1400		48	24	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Dibenz(a,h)anthracene	180		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Fluoranthene	2700		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Fluorene	120		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Indeno[1,2,3-cd]pyrene	500		110	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
1-Methylnaphthalene	270		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
2-Methylnaphthalene	310		210	38	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Naphthalene	260		210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Phenanthrene	1800		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4
Pyrene	1900		110	20	ug/Kg	☼	03/19/13 08:27	03/20/13 17:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*03/19/13 08:27*	*03/20/13 17:47*	*4*

Client Sample ID: CV1149B-CS

Lab Sample ID: 680-88298-12
Date Collected: 03/12/13 13:15
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Acenaphthylene	30	J	210	27	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Anthracene	73		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[a]anthracene	310		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[a]pyrene	280		55	28	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[b]fluoranthene	540		65	33	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[g,h,i]perylene	180		110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Benzo[k]fluoranthene	170		43	19	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Chrysene	350		48	24	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Dibenz(a,h)anthracene	53	J	110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Fluoranthene	530		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Fluorene	29	J	110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Indeno[1,2,3-cd]pyrene	160		110	38	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4

Client Sample ID: CV1149B-CS

Lab Sample ID: 680-88298-12
Date Collected: 03/12/13 13:15
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	160	J	210	38	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Naphthalene	120	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Phenanthrene	370		43	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4
Pyrene	410		110	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:10*	*4*

Client Sample ID: CV1199A-CS

Lab Sample ID: 680-88298-13
Date Collected: 03/12/13 12:35
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 67.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Acenaphthylene	65		59	7.4	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Anthracene	92		12	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[a]anthracene	470		12	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[a]pyrene	670		15	7.7	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[b]fluoranthene	1300		18	9.0	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[g,h,i]perylene	450		30	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Benzo[k]fluoranthene	420		12	5.3	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Chrysene	620		13	6.7	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Dibenz(a,h)anthracene	150		30	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Fluoranthene	680		30	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Fluorene	28	J	30	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Indeno[1,2,3-cd]pyrene	430		30	11	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
1-Methylnaphthalene	120		59	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
2-Methylnaphthalene	150		59	11	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Naphthalene	140		59	6.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Phenanthrene	390		12	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1
Pyrene	570		30	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:32*	*1*

Client Sample ID: CV1199B-CS

Lab Sample ID: 680-88298-14
Date Collected: 03/12/13 12:45
Matrix: Solid
Date Received: 03/14/13 09:44
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	500	U	500	100	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Acenaphthylene	66	J	200	25	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Anthracene	150		42	21	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[a]anthracene	1000		40	19	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[a]pyrene	1400		52	26	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[b]fluoranthene	3000		61	30	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[g,h,i]perylene	1200		100	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Benzo[k]fluoranthene	890		40	18	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4

Client Sample ID: CV1199B-CS

Lab Sample ID: 680-88298-14

Date Collected: 03/12/13 12:45
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1300		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Dibenz(a,h)anthracene	400		100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Fluoranthene	1200		100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Fluorene	40	J	100	20	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Indeno[1,2,3-cd]pyrene	1100		100	35	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
1-Methylnaphthalene	220		200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
2-Methylnaphthalene	250		200	35	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Naphthalene	190	J	200	22	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Phenanthrene	670		40	19	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4
Pyrene	1000		100	18	ug/Kg	☼	03/19/13 08:27	03/20/13 18:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:55*	*4*

Client Sample ID: CV1310A-CS

Lab Sample ID: 680-88298-15

Date Collected: 03/12/13 13:40
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Acenaphthylene	47	J	210	26	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Anthracene	60		44	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[a]anthracene	170		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[a]pyrene	160		54	27	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[b]fluoranthene	320		63	32	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[g,h,i]perylene	80	J	100	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Benzo[k]fluoranthene	110		42	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Chrysene	210		47	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Dibenz(a,h)anthracene	36	J	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Fluoranthene	200		100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Fluorene	100	U	100	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Indeno[1,2,3-cd]pyrene	77	J	100	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
1-Methylnaphthalene	55	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
2-Methylnaphthalene	73	J	210	37	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Naphthalene	85	J	210	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Phenanthrene	110		42	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4
Pyrene	180		100	19	ug/Kg	☼	03/19/13 08:27	03/20/13 19:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*03/19/13 08:27*	*03/20/13 19:17*	*4*

Client Sample ID: CV1355A-CS

Lab Sample ID: 680-88298-16

Date Collected: 03/12/13 14:00
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 71.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Acenaphthylene	59	J	220	28	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4

Client Sample ID: CV1355A-CS

Lab Sample ID: 680-88298-16

Date Collected: 03/12/13 14:00
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 71.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	86		47	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[a]anthracene	330		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[a]pyrene	310		58	29	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[b]fluoranthene	580		68	34	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[g,h,i]perylene	160		110	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Benzo[k]fluoranthene	220		45	20	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Chrysene	450		50	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Dibenz(a,h)anthracene	55	J	110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Fluoranthene	580		110	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Fluorene	23	J	110	23	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Indeno[1,2,3-cd]pyrene	160		110	40	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
1-Methylnaphthalene	140	J	220	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
2-Methylnaphthalene	190	J	220	40	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Naphthalene	140	J	220	25	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Phenanthrene	380		45	22	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4
Pyrene	480		110	21	ug/Kg	☼	03/19/13 08:27	03/20/13 19:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/19/13 08:27*	*03/20/13 19:40*	*4*

Client Sample ID: CV1355B-CS

Lab Sample ID: 680-88298-17

Date Collected: 03/12/13 14:10
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 70.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Acenaphthylene	25	J	56	7.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Anthracene	44		12	5.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[a]anthracene	130		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[a]pyrene	110		15	7.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[b]fluoranthene	250		17	8.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[g,h,i]perylene	61		28	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Benzo[k]fluoranthene	69		11	5.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Chrysene	180		13	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Dibenz(a,h)anthracene	21	J	28	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Fluoranthene	210		28	5.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Fluorene	9.5	J	28	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Indeno[1,2,3 cd]pyrene	56		28	10	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
1-Methylnaphthalene	89		56	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
2-Methylnaphthalene	120		56	10	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Naphthalene	90		56	6.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Phenanthrene	160		11	5.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1
Pyrene	170		28	5.2	ug/Kg	☼	03/19/13 08:27	03/20/13 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:02*	*1*

Client Sample ID: FM0020A-CS

Lab Sample ID: 680-88298-18

Date Collected: 03/12/13 09:15
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 63.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**34**	**J**	160	31	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Acenaphthylene	63	U	63	7.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Anthracene	**54**		13	6.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]anthracene	**230**		13	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[a]pyrene	**200**		16	8.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[b]fluoranthene	**350**		19	9.5	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[g,h,i]perylene	**82**		31	6.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Benzo[k]fluoranthene	**130**		13	5.6	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Chrysene	**240**		14	7.0	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Dibenz(a,h)anthracene	**29**	**J**	31	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluoranthene	**460**		31	6.3	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Fluorene	**23**	**J**	31	6.4	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Indeno[1,2,3-cd]pyrene	**91**		31	11	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
1-Methylnaphthalene	**38**	**J**	63	6.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
2-Methylnaphthalene	**50**	**J**	63	11	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Naphthalene	**53**	**J**	63	6.9	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Phenanthrene	**250**		13	6.1	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1
Pyrene	**340**		31	5.8	ug/Kg	☼	03/19/13 08:27	03/20/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/19/13 08:27*	*03/20/13 20:25*	*1*

Client Sample ID: FM0020B-CS

Lab Sample ID: 680-88298-19

Date Collected: 03/12/13 09:30
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Acenaphthylene	60	U	60	7.5	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Anthracene	**6.7**	**J**	13	6.3	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[a]anthracene	**45**		12	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[a]pyrene	**40**		16	7.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[b]fluoranthene	**59**		18	9.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[g,h,i]perylene	**33**		30	6.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Benzo[k]fluoranthene	**28**		12	5.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Chrysene	**55**		14	6.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Dibenz(a,h)anthracene	**13**	**J**	30	6.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Fluoranthene	**61**		30	6.0	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Fluorene	**6.7**	**J**	30	6.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	30	11	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
1-Methylnaphthalene	**20**	**J**	60	6.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
2-Methylnaphthalene	**28**	**J**	60	11	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Naphthalene	**44**	**J**	60	6.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Phenanthrene	**41**		12	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1
Pyrene	**56**		30	5.6	ug/Kg	☼	03/20/13 08:31	03/21/13 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/20/13 08:31*	*03/21/13 21:04*	*1*

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Client Sample ID: FM0020B-CSD
Date Collected: 03/12/13 09:30
Date Received: 03/14/13 09:44

Lab Sample ID: 680-88298-20
Matrix: Solid
Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Acenaphthylene	58	U	58	7.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Anthracene	**13**		12	6.1	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[a]anthracene	**64**		12	5.7	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[a]pyrene	**61**		15	7.5	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[b]fluoranthene	**130**		18	8.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[g,h,i]perylene	**36**		29	6.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Benzo[k]fluoranthene	**27**		12	5.2	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Chrysene	**76**		13	6.5	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Dibenz(a,h)anthracene	**20**	**J**	29	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Fluoranthene	**100**		29	5.8	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Fluorene	**8.3**	**J**	29	5.9	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Indeno[1,2,3-cd]pyrene	**33**		29	10	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
1-Methylnaphthalene	**22**	**J**	58	6.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
2-Methylnaphthalene	**29**	**J**	58	10	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Naphthalene	**33**	**J**	58	6.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Phenanthrene	**54**		12	5.7	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1
Pyrene	**93**		29	5.4	ug/Kg	☼	03/20/13 08:31	03/21/13 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*03/20/13 08:31*	*03/21/13 21:22*	*1*

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

Lab Sample ID: MB 660-135524/1-A
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Benzo[a]pyrene	10	U	10	5.0	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Chrysene	8.7	U	8.7	4.4	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Dibenz(a,h)an hracene	19	U	19	4.0	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Fluorene	19	U	19	4.0	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Naphthalene	39	U	39	4.3	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/19/13 08:27	03/20/13 18:35	1
Pyrene	19	U	19	3.6	ug/Kg		03/19/13 08:27	03/20/13 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*03/19/13 08:27*	*03/20/13 18:35*	*1*

Lab Sample ID: LCS 660-135524/2-A
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	467		ug/Kg		71	39 - 130
Acenaphthylene	656	502		ug/Kg		76	38 - 130
Anthracene	656	487		ug/Kg		74	37 - 130
Benzo[a]anthracene	656	488		ug/Kg		74	40 - 130
Benzo[a]pyrene	656	493		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	656	550		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	656	435		ug/Kg		66	32 - 130
Benzo[k]fluoranthene	656	505		ug/Kg		77	32 - 130
Chrysene	656	469		ug/Kg		72	41 - 130
Dibenz(a,h)an hracene	656	490		ug/Kg		75	27 - 130
Fluoranthene	656	489		ug/Kg		75	40 - 130
Fluorene	656	492		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	656	460		ug/Kg		70	30 - 130
1-Methylnaphthalene	656	536		ug/Kg		82	31 - 130
2-Methylnaphthalene	656	464		ug/Kg		71	33 - 130
Naphthalene	656	485		ug/Kg		74	36 - 130
Phenanthrene	656	483		ug/Kg		74	42 - 130
Pyrene	656	543		ug/Kg		83	44 - 130

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

Lab Sample ID: LCS 660-135524/2-A
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135524

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	77		30 - 130

Lab Sample ID: 680-88298-4 MS
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: CV0169B-CS-SP
Prep Type: Total/NA
Prep Batch: 135524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	520	U	864	817		ug/Kg	☼	95	39 - 130
Acenaphthylene	55	J	864	715		ug/Kg	☼	76	38 - 130
Anthracene	76		864	1200		ug/Kg	☼	130	37 - 130
Benzo[a]anthracene	500	F	864	2080	F	ug/Kg	☼	183	40 - 130
Benzo[a]pyrene	370	F	864	1620	F	ug/Kg	☼	145	49 - 130
Benzo[b]fluoranthene	550	F	864	2320	F	ug/Kg	☼	204	37 - 130
Benzo[g,h,i]perylene	290		864	1070		ug/Kg	☼	91	32 - 130
Benzo[k]fluoranthene	200		864	1290		ug/Kg	☼	126	32 - 130
Chrysene	570	F	864	1880	F	ug/Kg	☼	152	41 - 130
Dibenz(a,h)an hracene	110		864	789		ug/Kg	☼	79	27 - 130
Fluoranthene	760	F	864	3770	F	ug/Kg	☼	348	40 - 130
Fluorene	55	J	864	1080		ug/Kg	☼	119	40 - 130
Indeno[1,2,3-cd]pyrene	180		864	834		ug/Kg	☼	76	30 - 130
1-Methylnaphthalene	440		864	1360		ug/Kg	☼	106	31 - 130
2-Methylnaphthalene	320		864	1340		ug/Kg	☼	118	33 - 130
Naphthalene	290		864	1160		ug/Kg	☼	100	36 - 130
Phenanthrene	770	F	864	3910	F	ug/Kg	☼	363	42 - 130
Pyrene	710	F	864	3270	F	ug/Kg	☼	296	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	84		30 - 130

Lab Sample ID: 680-88298-4 MSD
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: CV0169B-CS-SP
Prep Type: Total/NA
Prep Batch: 135524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	520	U	862	580		ug/Kg	☼	67	39 - 130	34	40
Acenaphthylene	55	J	862	724		ug/Kg	☼	78	38 - 130	1	40
Anthracene	76		862	820		ug/Kg	☼	86	37 - 130	38	40
Benzo[a]anthracene	500	F	862	1360	F	ug/Kg	☼	99	40 - 130	42	40
Benzo[a]pyrene	370	F	862	1090		ug/Kg	☼	83	49 - 130	40	40
Benzo[b]fluoranthene	550	F	862	1420	F	ug/Kg	☼	101	37 - 130	48	40
Benzo[g,h,i]perylene	290		862	809		ug/Kg	☼	60	32 - 130	28	40
Benzo[k]fluoranthene	200		862	1190		ug/Kg	☼	115	32 - 130	8	40
Chrysene	570	F	862	1330		ug/Kg	☼	89	41 - 130	34	40
Dibenz(a,h)an hracene	110		862	634		ug/Kg	☼	61	27 - 130	22	40
Fluoranthene	760	F	862	2140	F	ug/Kg	☼	160	40 - 130	55	40
Fluorene	55	J	862	774		ug/Kg	☼	83	40 - 130	33	40
Indeno[1,2,3-cd]pyrene	180		862	872		ug/Kg	☼	80	30 - 130	4	40
1-Methylnaphthalene	440		862	1080		ug/Kg	☼	73	31 - 130	23	40

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

Lab Sample ID: 680-88298-4 MSD
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: CV0169B-CS-SP
Prep Type: Total/NA
Prep Batch: 135524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	320		862	953		ug/Kg	☼	73	33 - 130	34	40
Naphthalene	290		862	1000		ug/Kg	☼	82	36 - 130	15	40
Phenanthrene	770	F	862	2060	F	ug/Kg	☼	150	42 - 130	62	40
Pyrene	710	F	862	2070	F	ug/Kg	☼	158	44 - 130	45	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*74*		*30 - 130*

Lab Sample ID: MB 660-135556/1-A
Matrix: Solid
Analysis Batch: 135643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Dibenz(a,h)an hracene	19	U	19	4.0	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Fluorene	19	U	19	4.0	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Naphthalene	39	U	39	4.3	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Pyrene	19	U	19	3.6	ug/Kg		03/20/13 08:31	03/21/13 20:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*03/20/13 08:31*	*03/21/13 20:27*	*1*

Lab Sample ID: LCS 660-135556/2-A
Matrix: Solid
Analysis Batch: 135643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	456		ug/Kg		69	39 - 130
Acenaphthylene	664	518		ug/Kg		78	38 - 130
Anthracene	664	519		ug/Kg		78	37 - 130
Benzo[a]anthracene	664	537		ug/Kg		81	40 - 130
Benzo[a]pyrene	664	503		ug/Kg		76	49 - 130
Benzo[b]fluoranthene	664	555		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	664	382		ug/Kg		58	32 - 130
Benzo[k]fluoranthene	664	529		ug/Kg		80	32 - 130

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

Lab Sample ID: LCS 660-135556/2-A
Matrix: Solid
Analysis Batch: 135643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	664	510		ug/Kg		77	41 - 130
Dibenz(a,h)an hracene	664	458		ug/Kg		69	27 - 130
Fluoranthene	664	507		ug/Kg		76	40 - 130
Fluorene	664	501		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	664	445		ug/Kg		67	30 - 130
1-Methylnaphthalene	664	600		ug/Kg		90	31 - 130
2-Methylnaphthalene	664	543		ug/Kg		82	33 - 130
Naphthalene	664	558		ug/Kg		84	36 - 130
Phenanthrene	664	499		ug/Kg		75	42 - 130
Pyrene	664	572		ug/Kg		86	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*75*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 135524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-1	CV0150A-CS-SP	Total/NA	Solid	3546	
680-88298-2	CV0150B-CS-SP	Total/NA	Solid	3546	
680-88298-3	CV0169A-CS-SP	Total/NA	Solid	3546	
680-88298-4	CV0169B-CS-SP	Total/NA	Solid	3546	
680-88298-4 MS	CV0169B-CS-SP	Total/NA	Solid	3546	
680-88298-4 MSD	CV0169B-CS-SP	Total/NA	Solid	3546	
680-88298-5	CV0227A-CS-SP	Total/NA	Solid	3546	
680-88298-6	CV0227B-CS-SP	Total/NA	Solid	3546	
680-88298-7	CV0614A-CS-SP	Total/NA	Solid	3546	
680-88298-8	CV0614B-CS-SP	Total/NA	Solid	3546	
680-88298-9	CV1033A-CSD	Total/NA	Solid	3546	
680-88298-10	CV1033A-CS	Total/NA	Solid	3546	
680-88298-10 - DL	CV1033A-CS	Total/NA	Solid	3546	
680-88298-11	CV1149A-CS	Total/NA	Solid	3546	
680-88298-12	CV1149B-CS	Total/NA	Solid	3546	
680-88298-13	CV1199A-CS	Total/NA	Solid	3546	
680-88298-14	CV1199B-CS	Total/NA	Solid	3546	
680-88298-15	CV1310A-CS	Total/NA	Solid	3546	
680-88298-16	CV1355A-CS	Total/NA	Solid	3546	
680-88298-17	CV1355B-CS	Total/NA	Solid	3546	
680-88298-18	FM0020A-CS	Total/NA	Solid	3546	
LCS 660-135524/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135524/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-19	FM0020B-CS	Total/NA	Solid	3546	
680-88298-20	FM0020B-CSD	Total/NA	Solid	3546	
LCS 660-135556/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135556/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-8	CV0614B-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-9	CV1033A-CSD	Total/NA	Solid	8270C LL	135524
680-88298-10	CV1033A-CS	Total/NA	Solid	8270C LL	135524
680-88298-11	CV1149A-CS	Total/NA	Solid	8270C LL	135524
680-88298-12	CV1149B-CS	Total/NA	Solid	8270C LL	135524
680-88298-13	CV1199A-CS	Total/NA	Solid	8270C LL	135524
680-88298-14	CV1199B-CS	Total/NA	Solid	8270C LL	135524
680-88298-15	CV1310A-CS	Total/NA	Solid	8270C LL	135524
680-88298-16	CV1355A-CS	Total/NA	Solid	8270C LL	135524
680-88298-17	CV1355B-CS	Total/NA	Solid	8270C LL	135524
680-88298-18	FM0020A-CS	Total/NA	Solid	8270C LL	135524

Analysis Batch: 135624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-1	CV0150A-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-2	CV0150B-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-3	CV0169A-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-4	CV0169B-CS-SP	Total/NA	Solid	8270C LL	135524

GC/MS Semi VOA (Continued)

Analysis Batch: 135624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-4 MS	CV0169B-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-4 MSD	CV0169B-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-5	CV0227A-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-6	CV0227B-CS-SP	Total/NA	Solid	8270C LL	135524
680-88298-7	CV0614A-CS-SP	Total/NA	Solid	8270C LL	135524
LCS 660-135524/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135524
MB 660-135524/1-A	Method Blank	Total/NA	Solid	8270C LL	135524

Analysis Batch: 135643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-10 - DL	CV1033A-CS	Total/NA	Solid	8270C LL	135524
680-88298-19	FM0020B-CS	Total/NA	Solid	8270C LL	135556
680-88298-20	FM0020B-CSD	Total/NA	Solid	8270C LL	135556
LCS 660-135556/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135556
MB 660-135556/1-A	Method Blank	Total/NA	Solid	8270C LL	135556

General Chemistry

Analysis Batch: 135482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88298-1	CV0150A-CS-SP	Total/NA	Solid	Moisture	
680-88298-2	CV0150B-CS-SP	Total/NA	Solid	Moisture	
680-88298-3	CV0169A-CS-SP	Total/NA	Solid	Moisture	
680-88298-4	CV0169B-CS-SP	Total/NA	Solid	Moisture	
680-88298-4 MS	CV0169B-CS-SP	Total/NA	Solid	Moisture	
680-88298-4 MSD	CV0169B-CS-SP	Total/NA	Solid	Moisture	
680-88298-5	CV0227A-CS-SP	Total/NA	Solid	Moisture	
680-88298-6	CV0227B-CS-SP	Total/NA	Solid	Moisture	
680-88298-7	CV0614A-CS-SP	Total/NA	Solid	Moisture	
680-88298-8	CV0614B-CS-SP	Total/NA	Solid	Moisture	
680-88298-9	CV1033A-CSD	Total/NA	Solid	Moisture	
680-88298-10	CV1033A-CS	Total/NA	Solid	Moisture	
680-88298-11	CV1149A-CS	Total/NA	Solid	Moisture	
680-88298-12	CV1149B-CS	Total/NA	Solid	Moisture	
680-88298-13	CV1199A-CS	Total/NA	Solid	Moisture	
680-88298-14	CV1199B-CS	Total/NA	Solid	Moisture	
680-88298-15	CV1310A-CS	Total/NA	Solid	Moisture	
680-88298-16	CV1355A-CS	Total/NA	Solid	Moisture	
680-88298-17	CV1355B-CS	Total/NA	Solid	Moisture	
680-88298-18	FM0020A-CS	Total/NA	Solid	Moisture	
680-88298-19	FM0020B-CS	Total/NA	Solid	Moisture	
680-88298-20	FM0020B-CSD	Total/NA	Solid	Moisture	
MB 660-135482/1	Method Blank	Total/NA	Solid	Moisture	

Client Sample ID: CV0150A-CS-SP

Lab Sample ID: 680-88298-1
Date Collected: 03/12/13 09:35
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 19:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0150B-CS-SP

Lab Sample ID: 680-88298-2
Date Collected: 03/12/13 09:47
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 20:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0169A-CS-SP

Lab Sample ID: 680-88298-3
Date Collected: 03/12/13 10:10
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 20:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0169B-CS-SP

Lab Sample ID: 680-88298-4
Date Collected: 03/12/13 10:22
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 20:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0227A-CS-SP

Lab Sample ID: 680-88298-5
Date Collected: 03/12/13 10:45
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 21:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0227B-CS-SP — **Lab Sample ID: 680-88298-6**
Date Collected: 03/12/13 11:00 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 77.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 21:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0614A-CS-SP — **Lab Sample ID: 680-88298-7**
Date Collected: 03/12/13 08:43 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 76.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 22:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0614B-CS-SP — **Lab Sample ID: 680-88298-8**
Date Collected: 03/12/13 08:55 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 81.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135596	03/20/13 16:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1033A-CSD — **Lab Sample ID: 680-88298-9**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 75.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135596	03/20/13 17:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1033A-CS — **Lab Sample ID: 680-88298-10**
Date Collected: 03/12/13 10:50 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 74.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135596	03/20/13 17:24	SCC	TAL TAM
Total/NA	Prep	3546	DL		135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	135643	03/21/13 14:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Client Sample ID: CV1149A-CS

Lab Sample ID: 680-88298-11
Date Collected: 03/12/13 13:05
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135596	03/20/13 17:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1149B-CS

Lab Sample ID: 680-88298-12
Date Collected: 03/12/13 13:15
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135596	03/20/13 18:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1199A-CS

Lab Sample ID: 680-88298-13
Date Collected: 03/12/13 12:35
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 67.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135596	03/20/13 18:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1199B-CS

Lab Sample ID: 680-88298-14
Date Collected: 03/12/13 12:45
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135596	03/20/13 18:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1310A-CS

Lab Sample ID: 680-88298-15
Date Collected: 03/12/13 13:40
Matrix: Solid
Date Received: 03/14/13 09:44
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135596	03/20/13 19:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

Client Sample ID: CV1355A-CS — Lab Sample ID: 680-88298-16

Date Collected: 03/12/13 14:00 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 71.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135596	03/20/13 19:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1355B-CS — Lab Sample ID: 680-88298-17

Date Collected: 03/12/13 14:10 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 70.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135596	03/20/13 20:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0020A-CS — Lab Sample ID: 680-88298-18

Date Collected: 03/12/13 09:15 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 63.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135524	03/19/13 08:27	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135596	03/20/13 20:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0020B-CS — Lab Sample ID: 680-88298-19

Date Collected: 03/12/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 65.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 21:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0020B-CSD — Lab Sample ID: 680-88298-20

Date Collected: 03/12/13 09:30 — **Matrix: Solid**
Date Received: 03/14/13 09:44 — **Percent Solids: 67.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 21:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 59594

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Avenue Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey
P.O. NUMBER:
CONTRACT NO.:
CLIENT FAX:
(b) (6)
CLIENT NAME:
CLIENT E-MAIL:
(b) (6)
CLIENT ADDRESS:
(b) (6)
COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 1 OF 3

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: CLPAH; RCRA Metals

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

STANDARD REPORT DELIVERY ○ DATE DUE ______
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ______
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	CLPAH	RCRA Metals	REMARKS
3/12/13	0935	CU0150A-CS-SP	C		✓			X		
	0947	CU0150B-CS-SP	C		✓			X		
	1010	CU0169A-CS-SP	C		✓			X		
	1022	CU0169B-CS-SP	C		✓			X	X	
	1045	CU0227A-CS-SP	C		✓			X		
	1100	CU0227B-CS-SP	C		✓			X		
	0843	CU0614A-CS-SP	C		✓			X		
	0855	CU0614B-CS-SP	C		✓			X		
	1050	CU1033A-CSD	C		✓			X		
	1050	CU1033A-CS	C		✓			X	X	
	1305	CU1149A-CS	C		✓			X		
	1315	CU1149B-CS	C		✓			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/13/13	1800						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	03/14/13	0944	YES ○ NO ○		680 88298	1.4 °C

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3/26/2013

TAL8240-680 (1008)

Serial Number 59595

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☑ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL
MATRIX TYPE
REQUIRED ANALYSIS
PAGE 2 OF 3

TAL (LAB) PROJECT MANAGER: Lisa Harvey
P.O. NUMBER
CONTRACT NO.
CLIENT FAX

(b) (6)

CLIENT NAME
CLIENT E-MAIL

(b) (6)

CLIENT ADDRESS

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

Required analysis: LL PAH; RCRA 8

PRESERVATIVE

STANDARD REPORT DELIVERY ◯
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/12/13	1235	CV1199A-CS	C		✓			X			
	1245	CV1199B-CS	C		✓			X			
	1340	CV1310A-CS	C		✓			X			
	1400	CV1355A-CS	C		✓			X			
	1410	CV1355B-CS	C		✓			X			
	0915	FM0020A-CS	C		✓			X			
	0930	FM0020B-CS	C		✓			X			
	0930	FM0020B-CSD	C		✓			X			
	0945	FM0020C-CS	C		✓			X			
	0950	FM0020D-GS	G		✓			X			
	1015	FM0334A-CS	C		✓			X			
	1025	FM0334B-CS	C		✓			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/13/13	1800						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/14/13	0944	YES ◯ NO ◯		680-88298	1.4°c

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3/26/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88298-1
SDG Number: 68088298-1

Login Number: 88298
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 680-88298-1
SDG Number: 68088298-1

Login Number: 88298
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/15/13 10:19 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

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		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
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	04-01-13
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
Florida	NELAP	4	E84282	06-30-13

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

TestAmerica Job ID: 680-88298-1
SDG: 68088298-1

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
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14