REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-88065-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil and water	Date(s) Collected:	03/04/2013
Reviewer:	Jane Lindsey	Date:	03/21/2013
Concurrence[1]:	Carol Lovett/Nicole Lancaster	Date:	04/02/2013

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.	✓			Sample HP0313B-CS-SP (680-88065-18) contained 58.0% water, but was reported on a dry-weight basis. Due to high moisture content, results should be report on a wet-weight basis. Qualify detected results J and non-detects UJ.	J, UJ
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?		✓		PAH were not detected during the analysis of rinsate	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				blank 030513-RB-Shovel (680-88065-26).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (030513-RB-Shovel) was collected during the week of 03/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88065-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• FM0134A-CSD (680-88065-9) is a field duplicate of FM0134A-CS (680-88065-8). • CV0278A-CSD (680-88065-13) is a field duplicate of CV0278A-CS (680-88065-12).	
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: 03/12/2013 @ 12:18 • CCV: 03/13/2013 @ 11:52 • Initial Calibration: 02/22/2013, instrument BSMD5973 • ICV: 02/22/2013 @ 14:51 • CCV: 03/12/2013 @ 10:31	
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)):		✓		• ICV 02/22/2013 @ 14:06, instrument BSMC5973: ○ Chrysene @ -20.6%D (Lab: ≤35, Project: ≤20) ○ Benzo(a)pyrene @ -21.7%D (Lab: ≤35, Project: ≤20) Positive bias is indicated by the ICV percent	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
○ If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤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; therefore, J-flag detected chrysene and benzo(a)pyrene results in associated samples[2].	
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		✓		Water, LCS 660-135246/2-A and LCSD 660-135246/3-A: • Benzo(g,h,i)perylene @ 45%RPD (<35) • Dibenz(a,h)anthracene @ 56%RPD (<35) • Indeno(1,2,3-cd)pyrene @ 42%RPD (<35) UJ Flag non-detect results for the above-mentioned compounds in the associated sample, 030513-RB-Shovel (680-88065-26).	UJ
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?		✓		• Soil: ○ Prep Batch 135195: 680-87947-41 (Batch sample), MS/MSD ○ Prep Batch 135207: 680-88065-5 (CV0333A-CS-SP), MS/MSD • Water, Prep Batch 135246: An evaluation of accuracy and precision was based on the results of the LCS and LCSD analyses, as limited sample volume prevented the lab from conducting a MS and MSD analysis	
24. Is the MS/MSD parent sample a project-specific sample?	✓	✓			
25. Were MS/MSD recoveries within laboratory/project	✓				

[2] 680-88065-4 DL, -5, -15 through -20, and -26

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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					
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	✓				
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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

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

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88065-1	CV0079A-CS-SP	Solid	03/04/13 09:50	03/07/13 09:44
680-88065-2	CV0079B-CS-SP	Solid	03/04/13 10:00	03/07/13 09:44
680-88065-3	CV0793A-CS-SP	Solid	03/04/13 10:35	03/07/13 09:44
680-88065-4	CV0793B-CS-SP	Solid	03/04/13 10:43	03/07/13 09:44
680-88065-5	CV0333A-CS-SP	Solid	03/04/13 11:30	03/07/13 09:44
680-88065-6	CV0333B-CS-SP	Solid	03/04/13 11:40	03/07/13 09:44
680-88065-7	FM0144A-CS	Solid	03/04/13 12:55	03/07/13 09:44
680-88065-8	FM0134A-CS	Solid	03/04/13 13:20	03/07/13 09:44
680-88065-9	FM0134A-CSD	Solid	03/04/13 13:20	03/07/13 09:44
680-88065-10	FM0134B-CS	Solid	03/04/13 13:30	03/07/13 09:44
680-88065-11	FM0134C-CS	Solid	03/04/13 13:40	03/07/13 09:44
680-88065-12	CV0278A-CS	Solid	03/04/13 14:30	03/07/13 09:44
680-88065-13	CV0278A-CSD	Solid	03/04/13 14:30	03/07/13 09:44
680-88065-14	CV0278B-CS	Solid	03/04/13 14:40	03/07/13 09:44
680-88065-15	CV0236A-CS	Solid	03/04/13 15:20	03/07/13 09:44
680-88065-16	CV0236B-CS	Solid	03/04/13 15:30	03/07/13 09:44
680-88065-17	HP0313A-CS-SP	Solid	03/04/13 13:31	03/07/13 09:44
680-88065-18	HP0313B-CS-SP	Solid	03/04/13 13:42	03/07/13 09:44
680-88065-19	HP0138A-CS-SP	Solid	03/04/13 14:21	03/07/13 09:44
680-88065-20	HP0138B-CS-SP	Solid	03/04/13 14:35	03/07/13 09:44
680-88065-26	030513-RB-Shovel	Water	03/04/13 13:41	03/07/13 09:44

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0134A-CS (680-88065-8)		RL	FM0134A-CSD (680-88065-9)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene			60	18	J	52	µg/kg	280	NA	18	112	None, absolute difference ≤ 2x Avg RL
Anthracene	15		13	31		11	µg/kg	60	NA	16	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	74		12	190		10	µg/kg	55	**88**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	56		16	170		13	µg/kg	72 5	NA	**114**	**29**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	110		18	350		16	µg/kg	85	**104**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	25	J	30	77		26	µg/kg	140	NA	52	56	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	36		12	130		10	µg/kg	55	NA	**94**	**22**	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	78		13	240		12	µg/kg	62 5	**102**	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	9 3	J	30	27		26	µg/kg	140	NA	17 7	56	None, absolute difference ≤ 2x Avg RL
Fluoranthene	120		30	350		26	µg/kg	140	NA	**230**	**56**	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	7 2	J	30	10	J	26	µg/kg	140	NA	2 8	56	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	25	J	30	78		26	µg/kg	140	NA	53	56	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	43	J	60	88		52	µg/kg	280	NA	45	112	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	52	J	60	100		52	µg/kg	280	NA	48	112	None, absolute difference ≤ 2x Avg RL
Naphthalene	55	J	60	86		52	µg/kg	280	NA	31	112	None, absolute difference ≤ 2x Avg RL
Phenanthrene	93		12	210		10	µg/kg	55	**77**	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	110		30	300		26	µg/kg	140	NA	**190**	**56**	J/UJ-flag, absolute difference > 2x Avg RL

Analyte	CV0278A-CS (680-88065-12)		RL	CV0278A-CSD (680-88065-13)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	46	J	49	17	J	58	µg/kg	267 5	NA	29	107	None, absolute difference ≤ 2x Avg RL
Anthracene	48		10	15		12	µg/kg	55	NA	**33**	**22**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	180		9 8	59		12	µg/kg	54 5	**101**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	240		13	66		15	µg/kg	70	NA	**174**	**28**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	450		15	170		18	µg/kg	82 5	**90**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	110		25	32		29	µg/kg	135	NA	**78**	**54**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	130		9 8	58		12	µg/kg	54 5	**77**	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	310		11	100		13	µg/kg	60	**102**	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	36		25	15	J	29	µg/kg	135	NA	21	54	None, absolute difference ≤ 2x Avg RL
Fluoranthene	210		25	110		29	µg/kg	135	NA	**100**	**54**	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	19	J	25			29	µg/kg	135	NA	19	54	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	87		25	31		29	µg/kg	135	NA	**56**	**54**	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	70		49	26	J	58	µg/kg	267 5	NA	44	107	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	83		49	35	J	58	µg/kg	267 5	NA	48	107	None, absolute difference ≤ 2x Avg RL
Naphthalene	48	J	49	30	J	58	µg/kg	267 5	NA	18	107	None, absolute difference ≤ 2x Avg RL
Phenanthrene	130		9 8	59		12	µg/kg	54 5	**75**	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	300		25	110		29	µg/kg	135	NA	**190**	**54**	J/UJ-flag, 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: 680-88065-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88065-1

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 03/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0079A-CS-SP (680-88065-1), CV0079B-CS-SP (680-88065-2), CV0793A-CS-SP (680-88065-3), CV0793B-CS-SP (680-88065-4), CV0333A-CS-SP (680-88065-5), CV0333B-CS-SP (680-88065-6), FM0144A-CS (680-88065-7), FM0134A-CS (680-88065-8), FM0134A-CSD (680-88065-9), FM0134B-CS (680-88065-10), FM0134C-CS (680-88065-11), CV0278A-CS (680-88065-12), CV0278A-CSD (680-88065-13), CV0278B-CS (680-88065-14), CV0236A-CS (680-88065-15), CV0236B-CS (680-88065-16), HP0313A-CS-SP (680-88065-17), HP0313B-CS-SP (680-88065-18), HP0138A-CS-SP (680-88065-19) and HP0138B-CS-SP (680-88065-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/08/2013 and analyzed on 03/12/2013 and 03/13/2013.

Samples CV0079A-CS-SP (680-88065-1)[4X], CV0079B-CS-SP (680-88065-2)[4X], CV0793A-CS-SP (680-88065-3)[4X], CV0793B-CS-SP (680-88065-4)[4X], CV0333A-CS-SP (680-88065-5)[4X], FM0144A-CS (680-88065-7)[4X], CV0236B-CS (680-88065-16)[4X] and HP0313A-CS-SP (680-88065-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) Water

Sample 030513-RB-Shovel (680-88065-26) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/11/2013 and analyzed on 03/13/2013.

Benzo[g,h,]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit for LCSD 660-135246/3-A. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0079A-CS-SP

Lab Sample ID: 680-88065-1

Date Collected: 03/04/13 09:50
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 79.4

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	☼	03/08/13 10:18	03/12/13 13:56	4
Acenaphthylene	30	J	200	25	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Anthracene	150		43	21	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[a]anthracene	670		40	20	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[a]pyrene	620		53	26	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[b]fluoranthene	1100		62	31	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[g,h,i]perylene	270		100	22	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[k]fluoranthene	390		40	18	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Chrysene	670		46	23	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Dibenz(a,h)anthracene	94	J	100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Fluoranthene	1200		100	20	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Fluorene	46	J	100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Indeno[1,2,3-cd]pyrene	270		100	36	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
1-Methylnaphthalene	100	J	200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
2-Methylnaphthalene	140	J	200	36	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Naphthalene	110	J	200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Phenanthrene	650		40	20	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Pyrene	930		100	19	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 10:18*	*03/12/13 13:56*	*4*

Client Sample ID: CV0079B-CS-SP

Lab Sample ID: 680-88065-2

Date Collected: 03/04/13 10:00
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Acenaphthylene	60	J	210	26	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Anthracene	170		43	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[a]anthracene	800		41	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[a]pyrene	790		53	27	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[b]fluoranthene	1400		63	31	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[g,h,i]perylene	340		100	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[k]fluoranthene	540		41	18	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Chrysene	850		46	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Dibenz(a,h)anthracene	120		100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Fluoranthene	1400		100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Fluorene	48	J	100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Indeno[1,2,3-cd]pyrene	370		100	36	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
2-Methylnaphthalene	120	J	210	36	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Naphthalene	88	J	210	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Phenanthrene	680		41	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Pyrene	1100		100	19	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*03/08/13 10:18*	*03/12/13 14:18*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0793A-CS-SP

Date Collected: 03/04/13 10:35
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-3
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Acenaphthylene	25	J	200	25	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Anthracene	44		41	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[a]anthracene	220		40	19	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[a]pyrene	200		51	26	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[b]fluoranthene	420		60	30	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[g,h,i]perylene	100		99	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[k]fluoranthene	150		40	18	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Chrysene	330		44	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Dibenz(a,h)anthracene	36	J	99	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Fluoranthene	330		99	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Fluorene	99	U	99	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Indeno[1,2,3-cd]pyrene	90	J	99	35	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
1-Methylnaphthalene	210		200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
2-Methylnaphthalene	240		200	35	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Naphthalene	150	J	200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Phenanthrene	370		40	19	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Pyrene	300		99	18	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*03/08/13 10:18*	*03/12/13 14:41*	*4*

Client Sample ID: CV0793B-CS-SP

Date Collected: 03/04/13 10:43
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-4
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	48	J	130	25	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Acenaphthylene	26	J	50	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Anthracene	110		11	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[a]anthracene	1800		10	4.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[a]pyrene	2600		13	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[g,h,i]perylene	1500		25	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[k]fluoranthene	2000		10	4.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Chrysene	2300		11	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Dibenz(a,h)anthracene	540		25	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Fluoranthene	1800		25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Fluorene	35		25	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Indeno[1,2,3-cd]pyrene	1400		25	8.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
1-Methylnaphthalene	330		50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
2-Methylnaphthalene	390		50	8.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Naphthalene	270		50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Phenanthrene	720		10	4.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Pyrene	1900		25	4.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*03/08/13 10:18*	*03/12/13 15:04*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0793B-CS-SP

Lab Sample ID: 680-88065-4

Date Collected: 03/04/13 10:43
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	4700		61	31	ug/Kg	☼	03/08/13 10:18	03/13/13 17:11	4

Client Sample ID: CV0333A-CS-SP

Lab Sample ID: 680-88065-5

Date Collected: 03/04/13 11:30
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Acenaphthylene	30	J	210	26	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Anthracene	60		44	22	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[a]anthracene	380		42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[a]pyrene	330	J	55	27	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[b]fluoranthene	590		64	32	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[g,h,i]perylene	310		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[k]fluoranthene	200		42	19	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Chrysene	400	J	47	24	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Dibenz(a,h)anthracene	72	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Fluoranthene	520		110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Fluorene	25	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Indeno[1,2,3-cd]pyrene	260		110	37	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
2-Methylnaphthalene	240		210	37	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Naphthalene	140	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Phenanthrene	330		42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Pyrene	490		110	19	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/08/13 12:51*	*03/12/13 14:03*	*4*

Client Sample ID: CV0333B-CS-SP

Lab Sample ID: 680-88065-6

Date Collected: 03/04/13 11:40
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Acenaphthylene	20	J	52	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Anthracene	43		11	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[a]anthracene	200		10	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[a]pyrene	180		13	6.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[b]fluoranthene	370		16	7.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[g,h,i]perylene	79		26	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[k]fluoranthene	130		10	4.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Chrysene	240		12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Dibenz(a,h)anthracene	27		26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Fluoranthene	320		26	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Fluorene	9.3	J	26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Indeno[1,2,3-cd]pyrene	74		26	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
1-Methylnaphthalene	55		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1

Client Sample ID: CV0333B-CS-SP

Lab Sample ID: 680-88065-6

Date Collected: 03/04/13 11:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	75		52	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Naphthalene	66		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Phenanthrene	170		10	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Pyrene	290		26	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*03/08/13 10:18*	*03/12/13 15:26*	*1*

Client Sample ID: FM0144A-CS

Lab Sample ID: 680-88065-7

Date Collected: 03/04/13 12:55
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	480	96	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Acenaphthylene	50	J	190	24	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Anthracene	240		40	20	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[a]anthracene	840		39	19	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[a]pyrene	770		50	25	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[b]fluoranthene	1400		59	29	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[g,h,i]perylene	280		96	21	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[k]fluoranthene	460		39	17	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Chrysene	850		43	22	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Dibenz(a,h)anthracene	87	J	96	20	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Fluoranthene	1700		96	19	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Fluorene	98		96	20	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Indeno[1,2,3-cd]pyrene	300		96	34	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
1-Methylnaphthalene	86	J	190	21	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
2-Methylnaphthalene	82	J	190	34	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Naphthalene	70	J	190	21	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Phenanthrene	1200		39	19	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Pyrene	1600		96	18	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/08/13 10:18*	*03/12/13 15:49*	*4*

Client Sample ID: FM0134A-CS

Lab Sample ID: 680-88065-8

Date Collected: 03/04/13 13:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 65.0

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	☼	03/08/13 10:18	03/12/13 16:12	1
Acenaphthylene	60	U	60	7.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Anthracene	15		13	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[a]anthracene	74	J	12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[a]pyrene	56	J	16	7.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[b]fluoranthene	110	J	18	9.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[g,h,i]perylene	25	J	30	6.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[k]fluoranthene	36	J	12	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1

Client Sample ID: FM0134A-CS

Lab Sample ID: 680-88065-8

Date Collected: 03/04/13 13:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 65.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	78	J	13	6.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Dibenz(a,h)anthracene	9.3	J	30	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Fluoranthene	120	J	30	6.0	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Fluorene	7.2	J	30	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Indeno[1,2,3-cd]pyrene	25	J	30	11	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
1-Methylnaphthalene	43	J	60	6.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
2-Methylnaphthalene	52	J	60	11	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Naphthalene	55	J	60	6.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Phenanthrene	93	J	12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Pyrene	110	J	30	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 10:18*	*03/12/13 16:12*	*1*

Client Sample ID: FM0134A-CSD

Lab Sample ID: 680-88065-9

Date Collected: 03/04/13 13:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Acenaphthylene	18	J	52	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Anthracene	31		11	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[a]anthracene	190	J	10	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[a]pyrene	170	J	13	6.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[b]fluoranthene	350	J	16	7.9	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[g,h,i]perylene	77		26	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[k]fluoranthene	130	J	10	4.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Chrysene	240	J	12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Dibenz(a,h)anthracene	27		26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Fluoranthene	350	J	26	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Fluorene	10	J	26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Indeno[1,2,3-cd]pyrene	78		26	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
1-Methylnaphthalene	88		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
2-Methylnaphthalene	100		52	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Naphthalene	86		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Phenanthrene	210	J	10	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Pyrene	300	J	26	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/08/13 10:18*	*03/12/13 16:34*	*1*

Client Sample ID: FM0134B-CS

Lab Sample ID: 680-88065-10

Date Collected: 03/04/13 13:30
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 69.7

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	☼	03/08/13 10:18	03/12/13 16:57	1
Acenaphthylene	56	U	56	7.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: FM0134B-CS

Date Collected: 03/04/13 13:30
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-10
Matrix: Solid
Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	17		12	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[a]anthracene	62		11	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[a]pyrene	51		15	7.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[b]fluoranthene	100		17	8.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[g,h,i]perylene	23	J	28	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[k]fluoranthene	29		11	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Chrysene	68		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Dibenz(a,h)anthracene	6.5	J	28	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Fluoranthene	110		28	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Fluorene	8.1	J	28	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Indeno[1,2,3-cd]pyrene	22	J	28	10	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
1-Methylnaphthalene	16	J	56	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
2-Methylnaphthalene	21	J	56	10	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Naphthalene	25	J	56	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Phenanthrene	82		11	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Pyrene	95		28	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/08/13 10:18*	*03/12/13 16:57*	*1*

Client Sample ID: FM0134C-CS

Date Collected: 03/04/13 13:40
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-11
Matrix: Solid
Percent Solids: 69.8

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	☼	03/08/13 10:18	03/12/13 17:20	1
Acenaphthylene	57	U	57	7.1	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Anthracene	27		12	6.0	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[a]anthracene	210		11	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[a]pyrene	170		15	7.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[b]fluoranthene	340		17	8.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[g,h,i]perylene	60		29	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[k]fluoranthene	110		11	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Chrysene	190		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Dibenz(a,h)anthracene	21	J	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Fluoranthene	330		29	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Fluorene	29	U	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Indeno[1,2,3-cd]pyrene	60		29	10	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
1-Methylnaphthalene	18	J	57	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
2-Methylnaphthalene	24	J	57	10	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Naphthalene	27	J	57	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Phenanthrene	120		11	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Pyrene	320		29	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/08/13 10:18*	*03/12/13 17:20*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0278A-CS

Date Collected: 03/04/13 14:30
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-12
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Acenaphthylene	**46**	**J**	49	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Anthracene	**48**	J	10	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[a]anthracene	**180**		9.8	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[a]pyrene	**240**		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[b]fluoranthene	**450**		15	7.5	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[g,h,i]perylene	**110**		25	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[k]fluoranthene	**130**		9.8	4.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Chrysene	**310**		11	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Dibenz(a,h)anthracene	**36**		25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Fluoranthene	**210**	J	25	4.9	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Fluorene	**19**	**J**	25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Indeno[1,2,3-cd]pyrene	**87**	J	25	8.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
1-Methylnaphthalene	**70**		49	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
2-Methylnaphthalene	**83**		49	8.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Naphthalene	**48**	**J**	49	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Phenanthrene	**130**	J	9.8	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Pyrene	**300**	J	25	4.5	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/08/13 10:18*	*03/12/13 17:42*	*1*

Client Sample ID: CV0278A-CSD

Date Collected: 03/04/13 14:30
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-13
Matrix: Solid
Percent Solids: 69.5

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	29	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Acenaphthylene	**17**	**J**	58	7.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Anthracene	**15**	J	12	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[a]anthracene	**59**		12	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[a]pyrene	**66**		15	7.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[b]fluoranthene	**170**		18	8.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[g,h,i]perylene	**32**		29	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[k]fluoranthene	**58**		12	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Chrysene	**100**		13	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Dibenz(a,h)anthracene	**15**	**J**	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Fluoranthene	**110**	J	29	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Fluorene	29	U	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Indeno[1,2,3-cd]pyrene	**31**	J	29	10	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
1-Methylnaphthalene	**26**	**J**	58	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
2-Methylnaphthalene	**35**	**J**	58	10	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Naphthalene	**30**	**J**	58	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Phenanthrene	**59**	J	12	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Pyrene	**110**	J	29	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/08/13 10:18*	*03/12/13 18:05*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0278B-CS

Date Collected: 03/04/13 14:40
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-14
Matrix: Solid
Percent Solids: 81.2

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	☼	03/08/13 10:18	03/12/13 18:27	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Anthracene	10	U	10	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[a]anthracene	**20**		9.9	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[a]pyrene	**21**	J	13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[b]fluoranthene	**42**		15	7.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[g,h,i]perylene	**14**	J	25	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[k]fluoranthene	**12**		9.9	4.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Chrysene	**25**	J	11	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Fluoranthene	**19**	J	25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Indeno[1,2,3-cd]pyrene	**9.6**	J	25	8.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
1-Methylnaphthalene	50	U	50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
2-Methylnaphthalene	50	U	50	8.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Naphthalene	**6.7**	J	50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Phenanthrene	**15**		9.9	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Pyrene	**19**	J	25	4.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 10:18*	*03/12/13 18:27*	*1*

Client Sample ID: CV0236A-CS

Date Collected: 03/04/13 15:20
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-15
Matrix: Solid
Percent Solids: 83.0

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	☼	03/08/13 10:18	03/13/13 13:49	1
Acenaphthylene	**23**	J	48	6.0	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Anthracene	**37**		10	5.0	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[a]anthracene	**210**		9.6	4.7	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[a]pyrene	**200**	J	12	6.2	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[b]fluoranthene	**360**		15	7.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[g,h,i]perylene	**160**		24	5.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[k]fluoranthene	**160**		9.6	4.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Chrysene	**270**	J	11	5.4	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Dibenz(a,h)anthracene	**46**		24	4.9	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Fluoranthene	**330**		24	4.8	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Fluorene	**19**	J	24	4.9	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Indeno[1,2,3-cd]pyrene	**150**		24	8.5	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
1-Methylnaphthalene	**160**		48	5.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
2-Methylnaphthalene	**170**		48	8.5	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Naphthalene	**120**		48	5.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Phenanthrene	**230**		9.6	4.7	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Pyrene	**310**		24	4.4	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/08/13 10:18*	*03/13/13 13:49*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0236B-CS

Lab Sample ID: 680-88065-16

Date Collected: 03/04/13 15:30
Date Received: 03/07/13 09:44

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	520	U	520	100	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Acenaphthylene	39	J	210	26	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Anthracene	71		44	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[a]anthracene	480		42	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[a]pyrene	360	J	54	27	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[b]fluoranthene	620		64	32	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[g,h,i]perylene	280		100	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[k]fluoranthene	170		42	19	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Chrysene	450	J	47	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Dibenz(a,h)anthracene	96	J	100	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Fluoranthene	710		100	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Fluorene	39	J	100	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Indeno[1,2,3-cd]pyrene	230		100	37	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
1-Methylnaphthalene	480		210	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
2-Methylnaphthalene	530		210	37	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Naphthalene	340		210	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Phenanthrene	520		42	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Pyrene	610		100	19	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*03/08/13 10:18*	*03/13/13 14:07*	*4*

Client Sample ID: HP0313A-CS-SP

Lab Sample ID: 680-88065-17

Date Collected: 03/04/13 13:31
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 72.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Acenaphthylene	200	J	220	27	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Anthracene	220		46	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[a]anthracene	960		44	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[a]pyrene	1100	J	57	28	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[b]fluoranthene	1700		67	33	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[g,h,i]perylene	960		110	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[k]fluoranthene	820		44	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Chrysene	1200	J	49	25	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Dibenz(a,h)anthracene	260		110	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Fluoranthene	1400		110	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Fluorene	93	J	110	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Indeno[1,2,3-cd]pyrene	810		110	39	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
1-Methylnaphthalene	360		220	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
2-Methylnaphthalene	510		220	39	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Naphthalene	940		220	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Phenanthrene	1000		44	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Pyrene	1400		110	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/08/13 10:18*	*03/13/13 14:25*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: HP0313B-CS-SP

Date Collected: 03/04/13 13:42
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-18
Matrix: Solid
Percent Solids: 42.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	240	U UJ	240	48	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Acenaphthylene	96	U UJ	96	12	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Anthracene	**11**	J J	20	10	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[a]anthracene	**37**		19	9.3	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[a]pyrene	**45**		25	12	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[b]fluoranthene	**67**		29	15	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[g,h,i]perylene	**57**		48	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[k]fluoranthene	**19**		19	8.6	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Chrysene	**61**		22	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Dibenz(a,h)anthracene	**11**	J	48	9.8	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Fluoranthene	**81**		48	9.6	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Fluorene	48	U UJ	48	9.8	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Indeno[1,2,3-cd]pyrene	**30**	J J	48	17	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
1-Methylnaphthalene	**41**	J	96	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
2-Methylnaphthalene	**54**	J	96	17	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Naphthalene	**130**		96	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Phenanthrene	**83**		19	9.3	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Pyrene	**52**		48	8.8	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*38*		*30 - 130*	*03/08/13 10:18*	*03/13/13 14:44*	*1*

Client Sample ID: HP0138A-CS-SP

Date Collected: 03/04/13 14:21
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88065-19
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	☼	03/08/13 12:51	03/12/13 15:16	1
Acenaphthylene	**15**	J	50	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Anthracene	**14**		10	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[a]anthracene	**100**		10	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[a]pyrene	**93**	J	13	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[b]fluoranthene	**130**		15	7.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[g,h,i]perylene	**67**		25	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[k]fluoranthene	**43**		10	4.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Chrysene	**110**	J	11	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Dibenz(a,h)anthracene	**20**	J	25	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Fluoranthene	**110**		25	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Fluorene	**7.9**	J	25	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Indeno[1,2,3-cd]pyrene	**51**		25	8.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
1-Methylnaphthalene	**28**	J	50	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
2-Methylnaphthalene	**33**	J	50	8.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Naphthalene	**54**		50	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Phenanthrene	**69**		10	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Pyrene	**97**		25	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*03/08/13 12:51*	*03/12/13 15:16*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: HP0138B-CS-SP

Lab Sample ID: 680-88065-20

Date Collected: 03/04/13 14:35
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Acenaphthylene	**22**	**J**	54	6.8	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Anthracene	**24**		11	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[a]anthracene	**98**		11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[a]pyrene	**100**	J	14	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[b]fluoranthene	**190**		17	8.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[g,h,i]perylene	**75**		27	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[k]fluoranthene	**72**		11	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Chrysene	**130**	J	12	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Dibenz(a,h)anthracene	**25**	**J**	27	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Fluoranthene	**110**		27	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Fluorene	**7.8**	**J**	27	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Indeno[1,2,3-cd]pyrene	**56**		27	9.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
1-Methylnaphthalene	**29**	**J**	54	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
2-Methylnaphthalene	**54**		54	9.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Naphthalene	**79**		54	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Phenanthrene	**89**		11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Pyrene	**110**		27	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*03/08/13 12:51*	*03/12/13 15:35*	*1*

Client Sample ID: 030513-RB-Shovel

Lab Sample ID: 680-88065-26

Date Collected: 03/04/13 13:41
Date Received: 03/07/13 09:44

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
Acenaphthylene	0.94	U	0.94	0.23	ug/L		03/11/13 10:17	03/13/13 13:30	1
Anthracene	0.19	U	0.19	0.071	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[a]anthracene	0.19	U	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[a]pyrene	0.19	~~U~~ UJ	0.19	0.054	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[b]fluoranthene	0.19	U	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[g,h,i]perylene	0.47	~~U~~ UJ	0.47	0.094	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[k]fluoranthene	0.19	U	0.19	0.054	ug/L		03/11/13 10:17	03/13/13 13:30	1
Chrysene	0.19	~~U~~ UJ	0.19	0.065	ug/L		03/11/13 10:17	03/13/13 13:30	1
Dibenz(a,h)anthracene	0.19	~~U~~ UJ	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
Fluoranthene	0.47	U	0.47	0.051	ug/L		03/11/13 10:17	03/13/13 13:30	1
Fluorene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
Indeno[1,2,3-cd]pyrene	0.19	~~U~~ UJ	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
1-Methylnaphthalene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
2-Methylnaphthalene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
Naphthalene	1.9	U	1.9	0.23	ug/L		03/11/13 10:17	03/13/13 13:30	1
Phenanthrene	0.47	U	0.47	0.19	ug/L		03/11/13 10:17	03/13/13 13:30	1
Pyrene	0.47	U	0.47	0.084	ug/L		03/11/13 10:17	03/13/13 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*03/11/13 10:17*	*03/13/13 13:30*	*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)

ANALYTICAL REPORT

Job Number: 680-88065-1

SDG Number: 68088065-1

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
3/18/2013 10:48 AM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/18/2013

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

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

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

Table of Contents

Table of Contents

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88065-1

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 03/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0079A-CS-SP (680-88065-1), CV0079B-CS-SP (680-88065-2), CV0793A-CS-SP (680-88065-3), CV0793B-CS-SP (680-88065-4), CV0333A-CS-SP (680-88065-5), CV0333B-CS-SP (680-88065-6), FM0144A-CS (680-88065-7), FM0134A-CS (680-88065-8), FM0134A-CSD (680-88065-9), FM0134B-CS (680-88065-10), FM0134C-CS (680-88065-11), CV0278A-CS (680-88065-12), CV0278A-CSD (680-88065-13), CV0278B-CS (680-88065-14), CV0236A-CS (680-88065-15), CV0236B-CS (680-88065-16), HP0313A-CS-SP (680-88065-17), HP0313B-CS-SP (680-88065-18), HP0138A-CS-SP (680-88065-19) and HP0138B-CS-SP (680-88065-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/08/2013 and analyzed on 03/12/2013 and 03/13/2013.

Samples CV0079A-CS-SP (680-88065-1)[4X], CV0079B-CS-SP (680-88065-2)[4X], CV0793A-CS-SP (680-88065-3)[4X], CV0793B-CS-SP (680-88065-4)[4X], CV0333A-CS-SP (680-88065-5)[4X], FM0144A-CS (680-88065-7)[4X], CV0236B-CS (680-88065-16)[4X] and HP0313A-CS-SP (680-88065-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) Water

Sample 030513-RB-Shovel (680-88065-26) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/11/2013 and analyzed on 03/13/2013.

Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit for LCSD 660-135246/3-A. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
Sdg Number: 68088065-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88065-1	CV0079A-CS-SP	Solid	03/04/2013 0950	03/07/2013 0944
680-88065-2	CV0079B-CS-SP	Solid	03/04/2013 1000	03/07/2013 0944
680-88065-3	CV0793A-CS-SP	Solid	03/04/2013 1035	03/07/2013 0944
680-88065-4	CV0793B-CS-SP	Solid	03/04/2013 1043	03/07/2013 0944
680-88065-5	CV0333A-CS-SP	Solid	03/04/2013 1130	03/07/2013 0944
680-88065-5MS	CV0333A-CS-SP	Solid	03/04/2013 1130	03/07/2013 0944
680-88065-5MSD	CV0333A-CS-SP	Solid	03/04/2013 1130	03/07/2013 0944
680-88065-6	CV0333B-CS-SP	Solid	03/04/2013 1140	03/07/2013 0944
680-88065-7	FM0144A-CS	Solid	03/04/2013 1255	03/07/2013 0944
680-88065-8	FM0134A-CS	Solid	03/04/2013 1320	03/07/2013 0944
680-88065-9	FM0134A-CSD	Solid	03/04/2013 1320	03/07/2013 0944
680-88065-10	FM0134B-CS	Solid	03/04/2013 1330	03/07/2013 0944
680-88065-11	FM0134C-CS	Solid	03/04/2013 1340	03/07/2013 0944
680-88065-12	CV0278A-CS	Solid	03/04/2013 1430	03/07/2013 0944
680-88065-13	CV0278A-CSD	Solid	03/04/2013 1430	03/07/2013 0944
680-88065-14	CV0278B-CS	Solid	03/04/2013 1440	03/07/2013 0944
680-88065-15	CV0236A-CS	Solid	03/04/2013 1520	03/07/2013 0944
680-88065-16	CV0236B-CS	Solid	03/04/2013 1530	03/07/2013 0944
680-88065-17	HP0313A-CS-SP	Solid	03/04/2013 1331	03/07/2013 0944
680-88065-18	HP0313B-CS-SP	Solid	03/04/2013 1342	03/07/2013 0944
680-88065-19	HP0138A-CS-SP	Solid	03/04/2013 1421	03/07/2013 0944
680-88065-20	HP0138B-CS-SP	Solid	03/04/2013 1435	03/07/2013 0944
680-88065-26	030513-RB-Shovel	Water	03/04/2013 1341	03/07/2013 0944

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
Sdg Number: 68088065-1

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	
Matrix: Water			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C

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: 680-88065-1
Sdg Number: 68088065-1

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: 680-88065-1
Sdg Number: 68088065-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
Sdg Number: 68088065-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-135195					
LCS 660-135195/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135195/1-A	Method Blank	T	Solid	3546	
680-87947-A-41-B MS	Matrix Spike	T	Solid	3546	
680-87947-A-41-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88065-1	CV0079A-CS-SP	T	Solid	3546	
680-88065-2	CV0079B-CS-SP	T	Solid	3546	
680-88065-3	CV0793A-CS-SP	T	Solid	3546	
680-88065-4	CV0793B-CS-SP	T	Solid	3546	
680-88065-4DL	CV0793B-CS-SP	T	Solid	3546	
680-88065-6	CV0333B-CS-SP	T	Solid	3546	
680-88065-7	FM0144A-CS	T	Solid	3546	
680-88065-8	FM0134A-CS	T	Solid	3546	
680-88065-9	FM0134A-CSD	T	Solid	3546	
680-88065-10	FM0134B-CS	T	Solid	3546	
680-88065-11	FM0134C-CS	T	Solid	3546	
680-88065-12	CV0278A-CS	T	Solid	3546	
680-88065-13	CV0278A-CSD	T	Solid	3546	
680-88065-14	CV0278B-CS	T	Solid	3546	
680-88065-15	CV0236A-CS	T	Solid	3546	
680-88065-16	CV0236B-CS	T	Solid	3546	
680-88065-17	HP0313A-CS-SP	T	Solid	3546	
680-88065-18	HP0313B-CS-SP	T	Solid	3546	
Prep Batch: 660-135207					
LCS 660-135207/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135207/1-A	Method Blank	T	Solid	3546	
680-88065-5	CV0333A-CS-SP	T	Solid	3546	
680-88065-5MS	Matrix Spike	T	Solid	3546	
680-88065-5MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88065-19	HP0138A-CS-SP	T	Solid	3546	
680-88065-20	HP0138B-CS-SP	T	Solid	3546	
Prep Batch: 660-135246					
LCS 660-135246/2-A	Lab Control Sample	T	Water	3520C	
LCSD 660-135246/3-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 660-135246/1-A	Method Blank	T	Water	3520C	
680-88065-26	030513-RB-Shovel	T	Water	3520C	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
Sdg Number: 68088065-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135316					
LCS 660-135207/2-A	Lab Control Sample	T	Solid	8270C LL	660-135207
MB 660-135207/1-A	Method Blank	T	Solid	8270C LL	660-135207
680-88065-5	CV0333A-CS-SP	T	Solid	8270C LL	660-135207
680-88065-5MS	Matrix Spike	T	Solid	8270C LL	660-135207
680-88065-5MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135207
680-88065-19	HP0138A-CS-SP	T	Solid	8270C LL	660-135207
680-88065-20	HP0138B-CS-SP	T	Solid	8270C LL	660-135207
Analysis Batch:660-135345					
LCS 660-135195/2-A	Lab Control Sample	T	Solid	8270C LL	660-135195
MB 660-135195/1-A	Method Blank	T	Solid	8270C LL	660-135195
680-87947-A-41-B MS	Matrix Spike	T	Solid	8270C LL	660-135195
680-87947-A-41-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135195
680-88065-1	CV0079A-CS-SP	T	Solid	8270C LL	660-135195
680-88065-2	CV0079B-CS-SP	T	Solid	8270C LL	660-135195
680-88065-3	CV0793A-CS-SP	T	Solid	8270C LL	660-135195
680-88065-4	CV0793B-CS-SP	T	Solid	8270C LL	660-135195
680-88065-6	CV0333B-CS-SP	T	Solid	8270C LL	660-135195
680-88065-7	FM0144A-CS	T	Solid	8270C LL	660-135195
680-88065-8	FM0134A-CS	T	Solid	8270C LL	660-135195
680-88065-9	FM0134A-CSD	T	Solid	8270C LL	660-135195
680-88065-10	FM0134B-CS	T	Solid	8270C LL	660-135195
680-88065-11	FM0134C-CS	T	Solid	8270C LL	660-135195
680-88065-12	CV0278A-CS	T	Solid	8270C LL	660-135195
680-88065-13	CV0278A-CSD	T	Solid	8270C LL	660-135195
680-88065-14	CV0278B-CS	T	Solid	8270C LL	660-135195
Analysis Batch:660-135360					
LCS 660-135246/2-A	Lab Control Sample	T	Water	8270C LL	660-135246
LCSD 660-135246/3-A	Lab Control Sample Duplicate	T	Water	8270C LL	660-135246
MB 660-135246/1-A	Method Blank	T	Water	8270C LL	660-135246
680-88065-4DL	CV0793B-CS-SP	T	Solid	8270C LL	660-135195
680-88065-15	CV0236A-CS	T	Solid	8270C LL	660-135195
680-88065-16	CV0236B-CS	T	Solid	8270C LL	660-135195
680-88065-17	HP0313A-CS-SP	T	Solid	8270C LL	660-135195
680-88065-18	HP0313B-CS-SP	T	Solid	8270C LL	660-135195
680-88065-26	030513-RB-Shovel	T	Water	8270C LL	660-135246

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
Sdg Number: 68088065-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135237					
MB 660-135237/1	Method Blank	T	Solid	Moisture	
680-88065-1	CV0079A-CS-SP	T	Solid	Moisture	
680-88065-2	CV0079B-CS-SP	T	Solid	Moisture	
680-88065-3	CV0793A-CS-SP	T	Solid	Moisture	
680-88065-4	CV0793B-CS-SP	T	Solid	Moisture	
680-88065-5	CV0333A-CS-SP	T	Solid	Moisture	
680-88065-5MS	Matrix Spike	T	Solid	Moisture	
680-88065-5MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88065-6	CV0333B-CS-SP	T	Solid	Moisture	
680-88065-7	FM0144A-CS	T	Solid	Moisture	
680-88065-8	FM0134A-CS	T	Solid	Moisture	
680-88065-9	FM0134A-CSD	T	Solid	Moisture	
680-88065-10	FM0134B-CS	T	Solid	Moisture	
680-88065-11	FM0134C-CS	T	Solid	Moisture	
680-88065-12	CV0278A-CS	T	Solid	Moisture	
680-88065-13	CV0278A-CSD	T	Solid	Moisture	
680-88065-14	CV0278B-CS	T	Solid	Moisture	
680-88065-15	CV0236A-CS	T	Solid	Moisture	
680-88065-16	CV0236B-CS	T	Solid	Moisture	
680-88065-17	HP0313A-CS-SP	T	Solid	Moisture	
680-88065-18	HP0313B-CS-SP	T	Solid	Moisture	
Analysis Batch:660-135255					
LCS 660-135255/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135255/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88065-19	HP0138A-CS-SP	T	Solid	Moisture	
680-88065-20	HP0138B-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: CCVIS 660-135316/3 Client Sample ID:

Date Analyzed: 03/12/13 12:18 Lab File ID: 1CC12003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.13	Split Peak	cantins	03/12/13 13:05

Lab Sample ID: LCS 660-135207/2-A Client Sample ID:

Date Analyzed: 03/12/13 13:45 Lab File ID: 1CC12006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:20

Lab Sample ID: 680-88065-5 Client Sample ID: CV0333A-CS-SP

Date Analyzed: 03/12/13 14:03 Lab File ID: 1CC12007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.59	Split Peak	cantins	03/13/13 15:34
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 15:34
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:35
Benzo[g,h,i]perylene	10.48	Baseline Event	cantins	03/13/13 15:35

Lab Sample ID: 680-88065-5 MS Client Sample ID: CV0333A-CS-SP MS

Date Analyzed: 03/12/13 14:21 Lab File ID: 1CC12008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:42
Dibenz(a,h)anthracene	10.14	Baseline Event	cantins	03/13/13 15:42

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: 680-88065-5 MSD Client Sample ID: CV0333A-CS-SP MSD

Date Analyzed: 03/12/13 14:40 Lab File ID: 1CC12009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:43

Lab Sample ID: 680-88065-19 Client Sample ID: HP0138A-CS-SP

Date Analyzed: 03/12/13 15:16 Lab File ID: 1CC12011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:44

Lab Sample ID: 680-88065-20 Client Sample ID: HP0138B-CS-SP

Date Analyzed: 03/12/13 15:35 Lab File ID: 1CC12012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.59	Split Peak	cantins	03/13/13 15:44
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 15:44
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:45
Dibenz(a,h)anthracene	10.13	Baseline Event	cantins	03/13/13 15:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMC5973 Analysis Batch Number: 135360

Lab Sample ID: CCVIS 660-135360/3 Client Sample ID:

Date Analyzed: 03/13/13 11:52 Lab File ID: 1CC13003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 12:14

Lab Sample ID: LCS 660-135246/2-A Client Sample ID:

Date Analyzed: 03/13/13 12:54 Lab File ID: 1CC13006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/14/13 10:21

Lab Sample ID: LCSD 660-135246/3-A Client Sample ID:

Date Analyzed: 03/13/13 13:12 Lab File ID: 1CC13007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/14/13 10:21

Lab Sample ID: 680-88065-15 Client Sample ID: CV0236A-CS

Date Analyzed: 03/13/13 13:49 Lab File ID: 1CC13009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.58	Split Peak	cantins	03/13/13 14:49
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/13/13 14:49
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/13/13 14:50
Dibenz(a,h)anthracene	10.13	Baseline Event	cantins	03/13/13 14:50

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMC5973 Analysis Batch Number: 135360

Lab Sample ID: 680-88065-16 Client Sample ID: CV0236B-CS

Date Analyzed: 03/13/13 14:07 Lab File ID: 1CC13010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/13/13 14:51

Lab Sample ID: 680-88065-17 Client Sample ID: HP0313A-CS-SP

Date Analyzed: 03/13/13 14:25 Lab File ID: 1CC13011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.58	Split Peak	cantins	03/13/13 14:51
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/13/13 14:51
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/13/13 14:52

Lab Sample ID: 680-88065-18 Client Sample ID: HP0313B-CS-SP

Date Analyzed: 03/13/13 14:44 Lab File ID: 1CC13012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.58	Split Peak	cantins	03/13/13 15:38
Benzo[k]fluoranthene	8.60	Baseline Event	cantins	03/13/13 15:38
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 15:38

Lab Sample ID: 680-88065-4 DL Client Sample ID: CV0793B-CS-SP DL

Date Analyzed: 03/13/13 17:11 Lab File ID: 1CC13020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.58	Split Peak	cantins	03/13/13 17:25

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMD5973 Analysis Batch Number: 135345

Lab Sample ID: CCVIS 660-135345/3 Client Sample ID:

Date Analyzed: 03/12/13 10:31 Lab File ID: 1DC12003.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	03/12/13 10:53

Lab Sample ID: LCS 660-135195/2-A Client Sample ID:

Date Analyzed: 03/12/13 11:40 Lab File ID: 1DC12006.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	03/13/13 11:03

Lab Sample ID: 680-87947-A-41-B MS Client Sample ID:

Date Analyzed: 03/12/13 12:25 Lab File ID: 1DC12008.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	03/13/13 11:05

Lab Sample ID: 680-87947-A-41-C MSD Client Sample ID:

Date Analyzed: 03/12/13 12:48 Lab File ID: 1DC12009.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	03/13/13 11:05

Lab Sample ID: 680-88065-1 Client Sample ID: CV0079A-CS-SP

Date Analyzed: 03/12/13 13:56 Lab File ID: 1DC12012.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	03/13/13 11:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMD5973 Analysis Batch Number: 135345

Lab Sample ID: 680-88065-2 Client Sample ID: CV0079B-CS-SP

Date Analyzed: 03/12/13 14:18 Lab File ID: 1DC12013.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	03/13/13 11:52

Lab Sample ID: 680-88065-3 Client Sample ID: CV0793A-CS-SP

Date Analyzed: 03/12/13 14:41 Lab File ID: 1DC12014.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	03/13/13 11:53

Lab Sample ID: 680-88065-4 Client Sample ID: CV0793B-CS-SP

Date Analyzed: 03/12/13 15:04 Lab File ID: 1DC12015.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	03/13/13 11:54

Lab Sample ID: 680-88065-6 Client Sample ID: CV0333B-CS-SP

Date Analyzed: 03/12/13 15:26 Lab File ID: 1DC12016.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	03/13/13 12:00

Lab Sample ID: 680-88065-7 Client Sample ID: FM0144A-CS

Date Analyzed: 03/12/13 15:49 Lab File ID: 1DC12017.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	03/13/13 12:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMD5973 Analysis Batch Number: 135345

Lab Sample ID: 680-88065-8 Client Sample ID: FM0134A-CS

Date Analyzed: 03/12/13 16:12 Lab File ID: 1DC12018.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	03/13/13 12:02

Lab Sample ID: 680-88065-9 Client Sample ID: FM0134A-CSD

Date Analyzed: 03/12/13 16:34 Lab File ID: 1DC12019.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	03/13/13 12:02

Lab Sample ID: 680-88065-10 Client Sample ID: FM0134B-CS

Date Analyzed: 03/12/13 16:57 Lab File ID: 1DC12020.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	03/13/13 12:04

Lab Sample ID: 680-88065-11 Client Sample ID: FM0134C-CS

Date Analyzed: 03/12/13 17:20 Lab File ID: 1DC12021.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	03/13/13 12:04

Lab Sample ID: 680-88065-12 Client Sample ID: CV0278A-CS

Date Analyzed: 03/12/13 17:42 Lab File ID: 1DC12022.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	03/13/13 12:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMD5973 Analysis Batch Number: 135345

Lab Sample ID: 680-88065-13 Client Sample ID: CV0278A-CSD

Date Analyzed: 03/12/13 18:05 Lab File ID: 1DC12023.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	03/13/13 12:06

Lab Sample ID: 680-88065-14 Client Sample ID: CV0278B-CS

Date Analyzed: 03/12/13 18:27 Lab File ID: 1DC12024.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	03/13/13 12:09
Benzo[g,h,i]perylene	15.33	Baseline Event	cantins	03/13/13 12:09

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0079A-CS-SP	680-88065-1	74
CV0079B-CS-SP	680-88065-2	70
CV0793A-CS-SP	680-88065-3	73
CV0793B-CS-SP	680-88065-4	73
CV0333A-CS-SP	680-88065-5	90
CV0333B-CS-SP	680-88065-6	75
FM0144A-CS	680-88065-7	61
FM0134A-CS	680-88065-8	74
FM0134A-CSD	680-88065-9	66
FM0134B-CS	680-88065-10	71
FM0134C-CS	680-88065-11	64
CV0278A-CS	680-88065-12	71
CV0278A-CSD	680-88065-13	76
CV0278B-CS	680-88065-14	74
CV0236A-CS	680-88065-15	65
CV0236B-CS	680-88065-16	60
HP0313A-CS-SP	680-88065-17	66
HP0313B-CS-SP	680-88065-18	38
HP0138A-CS-SP	680-88065-19	59
HP0138B-CS-SP	680-88065-20	54
	MB 660-135195/1-A	58
	MB 660-135207/1-A	82
	LCS 660-135195/2-A	73
	LCS 660-135207/2-A	77
	680-87947-A-41-B MS	62
CV0333A-CS-SP MS	680-88065-5 MS	82
	680-87947-A-41-C MSD	69
CV0333A-CS-SP MSD	680-88065-5 MSD	79

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
030513-RB-Shovel	680-88065-26	81
	MB 660-135246/1-A	90
	LCS 660-135246/2-A	90
	LCSD 660-135246/3-A	86

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low Lab File ID: 1DC12006.D

Lab ID: LCS 660-135195/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	460	70	39-130	
Acenaphthylene	656	482	73	38-130	
Anthracene	656	488	74	37-130	
Benzo[a]anthracene	656	510	78	40-130	
Benzo[a]pyrene	656	457	70	49-130	
Benzo[b]fluoranthene	656	479	73	37-130	
Benzo[g,h,i]perylene	656	465	71	32-130	
Benzo[k]fluoranthene	656	511	78	32-130	
Chrysene	656	478	73	41-130	
Dibenz(a,h)anthracene	656	504	77	27-130	
Fluoranthene	656	523	80	40-130	
Fluorene	656	497	76	40-130	
Indeno[1,2,3-cd]pyrene	656	476	73	30-130	
1-Methylnaphthalene	656	521	79	31-130	
2-Methylnaphthalene	656	505	77	33-130	
Naphthalene	656	463	71	36-130	
Phenanthrene	656	478	73	42-130	
Pyrene	656	461	70	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.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low Lab File ID: 1CC12006.D

Lab ID: LCS 660-135207/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	490	73	39-130	
Acenaphthylene	670	539	80	38-130	
Anthracene	670	518	77	37-130	
Benzo[a]anthracene	670	530	79	40-130	
Benzo[a]pyrene	670	497	74	49-130	
Benzo[b]fluoranthene	670	511	76	37-130	
Benzo[g,h,i]perylene	670	505	75	32-130	
Benzo[k]fluoranthene	670	563	84	32-130	
Chrysene	670	487	73	41-130	
Dibenz(a,h)anthracene	670	543	81	27-130	
Fluoranthene	670	531	79	40-130	
Fluorene	670	547	82	40-130	
Indeno[1,2,3-cd]pyrene	670	481	72	30-130	
1-Methylnaphthalene	670	563	84	31-130	
2-Methylnaphthalene	670	515	77	33-130	
Naphthalene	670	504	75	36-130	
Phenanthrene	670	473	71	42-130	
Pyrene	670	537	80	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.: 680-88065-1

SDG No.: 68088065-1

Matrix: Water Level: Low Lab File ID: 1CC13006.D

Lab ID: LCS 660-135246/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	9.86	99	55-132	
Acenaphthylene	10.0	9.65	96	39-130	
Anthracene	10.0	8.69	87	39-130	
Benzo[a]anthracene	10.0	8.88	89	54-135	
Benzo[a]pyrene	10.0	6.62	66	21-130	
Benzo[b]fluoranthene	10.0	9.42	94	37-130	
Benzo[g,h,i]perylene	10.0	7.46	75	26-130	
Benzo[k]fluoranthene	10.0	8.74	87	38-130	
Chrysene	10.0	8.67	87	56-130	
Dibenz(a,h)anthracene	10.0	7.90	79	13-130	
Fluoranthene	10.0	9.41	94	60-130	
Fluorene	10.0	9.95	100	55-140	
Indeno[1,2,3-cd]pyrene	10.0	7.06	71	21-130	
1-Methylnaphthalene	10.0	10.1	101	49-130	
2-Methylnaphthalene	10.0	9.43	94	48-130	
Naphthalene	10.0	9.28	93	54-133	
Phenanthrene	10.0	9.45	95	60-136	
Pyrene	10.0	9.26	93	60-138	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Matrix: Water Level: Low Lab File ID: 1CC13007.D

Lab ID: LCSD 660-135246/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	10.0	9.52	95	3	35	55-132	
Acenaphthylene	10.0	9.37	94	3	35	39-130	
Anthracene	10.0	8.42	84	3	35	39-130	
Benzo[a]anthracene	10.0	8.54	85	4	35	54-135	
Benzo[a]pyrene	10.0	5.54	55	18	35	21-130	
Benzo[b]fluoranthene	10.0	6.75	67	33	35	37-130	
Benzo[g,h,i]perylene	10.0	4.72	47	45	35	26-130	*
Benzo[k]fluoranthene	10.0	7.47	75	16	35	38-130	
Chrysene	10.0	8.26	83	5	35	56-130	
Dibenz(a,h)anthracene	10.0	4.44	44	56	35	13-130	*
Fluoranthene	10.0	9.42	94	0	35	60-130	
Fluorene	10.0	10.1	101	1	35	55-140	
Indeno[1,2,3-cd]pyrene	10.0	4.60	46	42	35	21-130	*
1-Methylnaphthalene	10.0	10.1	101	0	35	49-130	
2-Methylnaphthalene	10.0	9.96	100	6	35	48-130	
Naphthalene	10.0	9.79	98	5	35	54-133	
Phenanthrene	10.0	9.07	91	4	35	60-136	
Pyrene	10.0	9.73	97	5	35	60-138	

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.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low Lab File ID: 1DC12008.D

Lab ID: 680-87947-A-41-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	926	140 U	573	62	39-130	
Acenaphthylene	926	13 J	602	64	38-130	
Anthracene	926	17	619	65	37-130	
Benzo[a]anthracene	926	75	713	69	40-130	
Benzo[a]pyrene	926	65	643	62	49-130	
Benzo[b]fluoranthene	926	130	780	71	37-130	
Benzo[g,h,i]perylene	926	52	463	44	32-130	
Benzo[k]fluoranthene	926	42	690	70	32-130	
Chrysene	926	110	702	63	41-130	
Dibenz(a,h)anthracene	926	18 J	518	54	27-130	
Fluoranthene	926	120	807	74	40-130	
Fluorene	926	28 U	630	68	40-130	
Indeno[1,2,3-cd]pyrene	926	42	502	50	30-130	
1-Methylnaphthalene	926	40 J	672	68	31-130	
2-Methylnaphthalene	926	50 J	659	66	33-130	
Naphthalene	926	57	617	60	36-130	
Phenanthrene	926	89	703	66	42-130	
Pyrene	926	93	702	66	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.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low Lab File ID: 1CC12008.D

Lab ID: 680-88065-5 MS Client ID: CV0333A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	877	530 U	748	85	39-130	
Acenaphthylene	877	30 J	864	95	38-130	
Anthracene	877	60	836	89	37-130	
Benzo[a]anthracene	877	380	1090	80	40-130	
Benzo[a]pyrene	877	330	947	71	49-130	
Benzo[b]fluoranthene	877	590	1070	55	37-130	
Benzo[g,h,i]perylene	877	310	851	62	32-130	
Benzo[k]fluoranthene	877	200	1030	95	32-130	
Chrysene	877	400	1070	77	41-130	
Dibenz(a,h)anthracene	877	72 J	755	78	27-130	
Fluoranthene	877	520	1250	83	40-130	
Fluorene	877	25 J	781	86	40-130	
Indeno[1,2,3-cd]pyrene	877	260	855	68	30-130	
1-Methylnaphthalene	877	130 J	989	98	31-130	
2-Methylnaphthalene	877	240	1130	102	33-130	
Naphthalene	877	140 J	857	81	36-130	
Phenanthrene	877	330	1090	87	42-130	
Pyrene	877	490	1230	83	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.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low Lab File ID: 1DC12009.D

Lab ID: 680-87947-A-41-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	926	645	70	12	40	39-130	
Acenaphthylene	926	675	72	11	40	38-130	
Anthracene	926	685	72	10	40	37-130	
Benzo[a]anthracene	926	799	78	11	40	40-130	
Benzo[a]pyrene	926	712	70	10	40	49-130	
Benzo[b]fluoranthene	926	934	87	18	40	37-130	
Benzo[g,h,i]perylene	926	470	45	1	40	32-130	
Benzo[k]fluoranthene	926	777	79	12	40	32-130	
Chrysene	926	768	71	9	40	41-130	
Dibenz(a,h)anthracene	926	527	55	2	40	27-130	
Fluoranthene	926	927	87	14	40	40-130	
Fluorene	926	707	76	12	40	40-130	
Indeno[1,2,3-cd]pyrene	926	490	48	3	40	30-130	
1-Methylnaphthalene	926	744	76	10	40	31-130	
2-Methylnaphthalene	926	728	73	10	40	33-130	
Naphthalene	926	679	67	10	40	36-130	
Phenanthrene	926	841	81	18	40	42-130	
Pyrene	926	825	79	16	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.: 680-88065-1

SDG No.: 68088065-1

Matrix: Solid Level: Low Lab File ID: 1CC12009.D

Lab ID: 680-88065-5 MSD Client ID: CV0333A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	877	830	95	10	40	39-130	
Acenaphthylene	877	763	84	12	40	38-130	
Anthracene	877	796	84	5	40	37-130	
Benzo[a]anthracene	877	1050	76	4	40	40-130	
Benzo[a]pyrene	877	959	72	1	40	49-130	
Benzo[b]fluoranthene	877	1110	60	4	40	37-130	
Benzo[g,h,i]perylene	877	848	61	0	40	32-130	
Benzo[k]fluoranthene	877	1030	95	0	40	32-130	
Chrysene	877	1080	77	1	40	41-130	
Dibenz(a,h)anthracene	877	729	75	4	40	27-130	
Fluoranthene	877	1240	82	1	40	40-130	
Fluorene	877	771	85	1	40	40-130	
Indeno[1,2,3-cd]pyrene	877	822	64	4	40	30-130	
1-Methylnaphthalene	877	941	92	5	40	31-130	
2-Methylnaphthalene	877	986	86	14	40	33-130	
Naphthalene	877	854	81	0	40	36-130	
Phenanthrene	877	1070	85	2	40	42-130	
Pyrene	877	1240	85	1	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Lab File ID: 1DC12005.D Lab Sample ID: MB 660-135195/1-A

Matrix: Solid Date Extracted: 03/08/2013 10:18

Instrument ID: BSMD5973 Date Analyzed: 03/12/2013 11:18

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135195/2-A	1DC12006.D	03/12/2013 11:40
	680-87947-A-41-B MS	1DC12008.D	03/12/2013 12:25
	680-87947-A-41-C MSD	1DC12009.D	03/12/2013 12:48
CV0079A-CS-SP	680-88065-1	1DC12012.D	03/12/2013 13:56
CV0079B-CS-SP	680-88065-2	1DC12013.D	03/12/2013 14:18
CV0793A-CS-SP	680-88065-3	1DC12014.D	03/12/2013 14:41
CV0793B-CS-SP	680-88065-4	1DC12015.D	03/12/2013 15:04
CV0333B-CS-SP	680-88065-6	1DC12016.D	03/12/2013 15:26
FM0144A-CS	680-88065-7	1DC12017.D	03/12/2013 15:49
FM0134A-CS	680-88065-8	1DC12018.D	03/12/2013 16:12
FM0134A-CSD	680-88065-9	1DC12019.D	03/12/2013 16:34
FM0134B-CS	680-88065-10	1DC12020.D	03/12/2013 16:57
FM0134C-CS	680-88065-11	1DC12021.D	03/12/2013 17:20
CV0278A-CS	680-88065-12	1DC12022.D	03/12/2013 17:42
CV0278A-CSD	680-88065-13	1DC12023.D	03/12/2013 18:05
CV0278B-CS	680-88065-14	1DC12024.D	03/12/2013 18:27
CV0236A-CS	680-88065-15	1CC13009.D	03/13/2013 13:49
CV0236B-CS	680-88065-16	1CC13010.D	03/13/2013 14:07
HP0313A-CS-SP	680-88065-17	1CC13011.D	03/13/2013 14:25
HP0313B-CS-SP	680-88065-18	1CC13012.D	03/13/2013 14:44
CV0793B-CS-SP DL	680-88065-4 DL	1CC13020.D	03/13/2013 17:11

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Lab File ID: 1CC12005.D Lab Sample ID: MB 660-135207/1-A

Matrix: Solid Date Extracted: 03/08/2013 12:51

Instrument ID: BSMC5973 Date Analyzed: 03/12/2013 13:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135207/2-A	1CC12006.D	03/12/2013 13:45
CV0333A-CS-SP	680-88065-5	1CC12007.D	03/12/2013 14:03
CV0333A-CS-SP MS	680-88065-5 MS	1CC12008.D	03/12/2013 14:21
CV0333A-CS-SP MSD	680-88065-5 MSD	1CC12009.D	03/12/2013 14:40
HP0138A-CS-SP	680-88065-19	1CC12011.D	03/12/2013 15:16
HP0138B-CS-SP	680-88065-20	1CC12012.D	03/12/2013 15:35

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Lab File ID: 1CC13005.D Lab Sample ID: MB 660-135246/1-A

Matrix: Water Date Extracted: 03/11/2013 10:17

Instrument ID: BSMC5973 Date Analyzed: 03/13/2013 12:35

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135246/2-A	1CC13006.D	03/13/2013 12:54
	LCSD 660-135246/3-A	1CC13007.D	03/13/2013 13:12
030513-RB-Shovel	680-88065-26	1CC13008.D	03/13/2013 13:30

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

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Lab File ID: 1CC12002.D DFTPP Injection Date: 03/12/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 12:01

Analysis Batch No.: 135316

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.0	
68	Less than 2.0 % of mass 69	0.7	(1.3)1
69	Mass 69 relative abundance	49.8	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	46.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	20.9	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	9.0	
442	Greater than 50.0 % of mass 198	65.3	
443	15.0 - 24.0 % of mass 442	12.4	(19.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135316/3	1CC12003.D	03/12/2013	12:18
	MB 660-135207/1-A	1CC12005.D	03/12/2013	13:27
	LCS 660-135207/2-A	1CC12006.D	03/12/2013	13:45
CV0333A-CS-SP	680-88065-5	1CC12007.D	03/12/2013	14:03
CV0333A-CS-SP MS	680-88065-5 MS	1CC12008.D	03/12/2013	14:21
CV0333A-CS-SP MSD	680-88065-5 MSD	1CC12009.D	03/12/2013	14:40
HP0138A-CS-SP	680-88065-19	1CC12011.D	03/12/2013	15:16
HP0138B-CS-SP	680-88065-20	1CC12012.D	03/12/2013	15:35

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

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Lab File ID: 1CC13002.D DFTPP Injection Date: 03/13/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:33

Analysis Batch No.: 135360

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	38.7	
68	Less than 2.0 % of mass 69	0.5	(1.0)1
69	Mass 69 relative abundance	51.0	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	49.6	
197	Less than 2.0 % of mass 198	1.1	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	8.4	
275	10.0 - 60.0 % of mass 198	20.2	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	61.0	
443	15.0 - 24.0 % of mass 442	11.2	(18.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135360/3	1CC13003.D	03/13/2013	11:52
	MB 660-135246/1-A	1CC13005.D	03/13/2013	12:35
	LCS 660-135246/2-A	1CC13006.D	03/13/2013	12:54
	LCSD 660-135246/3-A	1CC13007.D	03/13/2013	13:12
030513-RB-Shovel	680-88065-26	1CC13008.D	03/13/2013	13:30
CV0236A-CS	680-88065-15	1CC13009.D	03/13/2013	13:49
CV0236B-CS	680-88065-16	1CC13010.D	03/13/2013	14:07
HP0313A-CS-SP	680-88065-17	1CC13011.D	03/13/2013	14:25
HP0313B-CS-SP	680-88065-18	1CC13012.D	03/13/2013	14:44
CV0793B-CS-SP DL	680-88065-4 DL	1CC13020.D	03/13/2013	17:11

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

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Lab File ID: 1DC12002.D DFTPP Injection Date: 03/12/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:14

Analysis Batch No.: 135345

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	40.8	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	42.2	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	46.2	
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	6.7	
275	10.0 - 60.0 % of mass 198	28.1	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	8.7	
442	Greater than 50.0 % of mass 198	89.9	
443	15.0 - 24.0 % of mass 442	17.6	(19.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135345/3	1DC12003.D	03/12/2013	10:31
	MB 660-135195/1-A	1DC12005.D	03/12/2013	11:18
	LCS 660-135195/2-A	1DC12006.D	03/12/2013	11:40
	680-87947-A-41-B MS	1DC12008.D	03/12/2013	12:25
	680-87947-A-41-C MSD	1DC12009.D	03/12/2013	12:48
CV0079A-CS-SP	680-88065-1	1DC12012.D	03/12/2013	13:56
CV0079B-CS-SP	680-88065-2	1DC12013.D	03/12/2013	14:18
CV0793A-CS-SP	680-88065-3	1DC12014.D	03/12/2013	14:41
CV0793B-CS-SP	680-88065-4	1DC12015.D	03/12/2013	15:04
CV0333B-CS-SP	680-88065-6	1DC12016.D	03/12/2013	15:26
FM0144A-CS	680-88065-7	1DC12017.D	03/12/2013	15:49
FM0134A-CS	680-88065-8	1DC12018.D	03/12/2013	16:12
FM0134A-CSD	680-88065-9	1DC12019.D	03/12/2013	16:34
FM0134B-CS	680-88065-10	1DC12020.D	03/12/2013	16:57
FM0134C-CS	680-88065-11	1DC12021.D	03/12/2013	17:20
CV0278A-CS	680-88065-12	1DC12022.D	03/12/2013	17:42
CV0278A-CSD	680-88065-13	1DC12023.D	03/12/2013	18:05
CV0278B-CS	680-88065-14	1DC12024.D	03/12/2013	18:27

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

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Sample No.: CCVIS 660-135316/3 Date Analyzed: 03/12/2013 12:18

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

Lab File ID (Standard): 1CC12003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1109583	3.76	871233	4.85	1647901	5.80
UPPER LIMIT		2219166	4.26	1742466	5.35	3295802	6.30
LOWER LIMIT		554792	3.26	435617	4.35	823951	5.30
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135207/1-A		1140906	3.76	886964	4.85	1760135	5.80
LCS 660-135207/2-A		1062964	3.76	836956	4.85	1639915	5.80
680-88065-5	CV0333A-CS-SP	1226175	3.76	983497	4.85	1811457	5.80
680-88065-5 MS	CV0333A-CS-SP MS	1323773	3.76	1055864	4.85	1920645	5.80
680-88065-5 MSD	CV0333A-CS-SP MSD	1303928	3.76	1030865	4.85	1926894	5.80
680-88065-19	HP0138A-CS-SP	1289272	3.76	1002410	4.85	1905530	5.80
680-88065-20	HP0138B-CS-SP	1375322	3.76	1118654	4.85	2050469	5.80

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.: 680-88065-1

SDG No.: 68088065-1

Sample No.: CCVIS 660-135316/3 Date Analyzed: 03/12/2013 12:18

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

Lab File ID (Standard): 1CC12003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2056241	7.75	2011579	8.95		
UPPER LIMIT		4112482	8.25	4023158	9.45		
LOWER LIMIT		1028121	7.25	1005790	8.45		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135207/1-A		2080730	7.75	2080573	8.95		
LCS 660-135207/2-A		1943509	7.75	1969433	8.95		
680-88065-5	CV0333A-CS-SP	2074537	7.75	2031538	8.94		
680-88065-5 MS	CV0333A-CS-SP MS	2185713	7.75	2147337	8.95		
680-88065-5 MSD	CV0333A-CS-SP MSD	2200494	7.75	2117979	8.95		
680-88065-19	HP0138A-CS-SP	2137532	7.75	2064663	8.95		
680-88065-20	HP0138B-CS-SP	2353865	7.75	2123351	8.95		

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.: 680-88065-1

SDG No.: 68088065-1

Sample No.: CCVIS 660-135360/3 Date Analyzed: 03/13/2013 11:52

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

Lab File ID (Standard): 1CC13003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1032078	3.76	777360	4.85	1454755	5.80
UPPER LIMIT		2064156	4.26	1554720	5.35	2909510	6.30
LOWER LIMIT		516039	3.26	388680	4.35	727378	5.30
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135246/1-A		892048	3.76	685987	4.85	1265470	5.79
LCS 660-135246/2-A		929453	3.76	715429	4.85	1355559	5.79
LCSD 660-135246/3-A		886784	3.76	710434	4.85	1333526	5.80
680-88065-26	030513-RB-Shovel	944298	3.76	737393	4.85	1409206	5.79
680-88065-15	CV0236A-CS	1009436	3.76	747651	4.85	1406515	5.79
680-88065-16	CV0236B-CS	1156803	3.76	902336	4.85	1653628	5.80
680-88065-17	HP0313A-CS-SP	1128569	3.76	864817	4.85	1510820	5.79
680-88065-18	HP0313B-CS-SP	1176789	3.76	901834	4.85	1661941	5.79
680-88065-4 DL	CV0793B-CS-SP DL	1286705	3.76	985458	4.85	1714447	5.80

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.: 680-88065-1

SDG No.: 68088065-1

Sample No.: CCVIS 660-135360/3 Date Analyzed: 03/13/2013 11:52

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

Lab File ID (Standard): 1CC13003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1753181	7.74	1795142	8.93		
UPPER LIMIT		3506362	8.24	3590284	9.43		
LOWER LIMIT		876591	7.24	897571	8.43		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135246/1-A		1480338	7.74	1541406	8.93		
LCS 660-135246/2-A		1652468	7.74	1673461	8.93		
LCSD 660-135246/3-A		1625117	7.74	1638621	8.93		
680-88065-26	030513-RB-Shovel	1642859	7.74	1677534	8.93		
680-88065-15	CV0236A-CS	1665282	7.74	1703382	8.93		
680-88065-16	CV0236B-CS	1931635	7.74	1954042	8.93		
680-88065-17	HP0313A-CS-SP	1742727	7.74	1706533	8.93		
680-88065-18	HP0313B-CS-SP	2982301	7.74	1850255	8.93		
680-88065-4 DL	CV0793B-CS-SP DL	1936845	7.74	1862403	8.93		

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.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Sample No.: CCVIS 660-135345/3 Date Analyzed: 03/12/2013 10:31

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

Lab File ID (Standard): 1DC12003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1883165	6.15	1180391	7.82	2073857	9.08
UPPER LIMIT		3766330	6.65	2360782	8.32	4147714	9.58
LOWER LIMIT		941583	5.65	590196	7.32	1036929	8.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135195/1-A		2630581	6.15	1646495	7.82	2887075	9.08
LCS 660-135195/2-A		2235596	6.15	1441164	7.82	2457018	9.08
680-87947-A-41-B MS		2515956	6.15	1620532	7.82	2782671	9.08
680-87947-A-41-C MSD		2449419	6.15	1556660	7.82	2686202	9.08
680-88065-1	CV0079A-CS-SP	2254464	6.15	1425435	7.82	2423848	9.08
680-88065-2	CV0079B-CS-SP	2276839	6.15	1430796	7.82	2475313	9.08
680-88065-3	CV0793A-CS-SP	2361345	6.15	1491121	7.82	2524839	9.08
680-88065-4	CV0793B-CS-SP	2247666	6.15	1400360	7.82	2439006	9.08
680-88065-6	CV0333B-CS-SP	2248266	6.16	1413809	7.82	2459405	9.08
680-88065-7	FM0144A-CS	2303373	6.15	1450591	7.82	2497077	9.08
680-88065-8	FM0134A-CS	2292745	6.15	1436363	7.82	2436145	9.08
680-88065-9	FM0134A-CSD	2276180	6.15	1436604	7.82	2462358	9.08
680-88065-10	FM0134B-CS	2211932	6.16	1410953	7.82	2399834	9.08
680-88065-11	FM0134C-CS	2289984	6.15	1437685	7.82	2429206	9.08
680-88065-12	CV0278A-CS	2317776	6.15	1456427	7.82	2521265	9.08
680-88065-13	CV0278A-CSD	2286554	6.15	1457890	7.82	2464882	9.08
680-88065-14	CV0278B-CS	2311922	6.15	1458737	7.82	2502170	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.: 680-88065-1

SDG No.: 68088065-1

Sample No.: CCVIS 660-135345/3 Date Analyzed: 03/12/2013 10:31

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

Lab File ID (Standard): 1DC12003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2207373	11.41	2302102	13.28		
UPPER LIMIT		4414746	11.91	4604204	13.78		
LOWER LIMIT		1103687	10.91	1151051	12.78		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135195/1-A		3108448	11.41	3283581	13.28		
LCS 660-135195/2-A		2672697	11.42	2790655	13.28		
680-87947-A-41-B MS		2940836	11.42	2713687	13.29		
680-87947-A-41-C MSD		2788699	11.42	2363343	13.29		
680-88065-1	CV0079A-CS-SP	2371181	11.42	1781169	13.28		
680-88065-2	CV0079B-CS-SP	2373951	11.41	1749677	13.28		
680-88065-3	CV0793A-CS-SP	2314475	11.41	1533147	13.28		
680-88065-4	CV0793B-CS-SP	2128494	11.42	1342090	13.28		
680-88065-6	CV0333B-CS-SP	2166425	11.41	1396844	13.28		
680-88065-7	FM0144A-CS	2100354	11.42	1255407	13.27		
680-88065-8	FM0134A-CS	2133879	11.41	1352641	13.28		
680-88065-9	FM0134A-CSD	2068293	11.41	1252194	13.28		
680-88065-10	FM0134B-CS	2062908	11.41	1280015	13.27		
680-88065-11	FM0134C-CS	2134810	11.41	1316815	13.28		
680-88065-12	CV0278A-CS	2065190	11.42	1248920	13.29		
680-88065-13	CV0278A-CSD	2067930	11.42	1205267	13.27		
680-88065-14	CV0278B-CS	2087787	11.42	1225852	13.27		

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.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0079A-CS-SP | Lab Sample ID: 680-88065-1

Matrix: Solid | Lab File ID: 1DC12012.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 09:50

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.93(g) | Date Analyzed: 03/12/2013 13:56

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

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

% Moisture: 20.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	30	J	200	25
120-12-7	Anthracene	150		43	21
56-55-3	Benzo[a]anthracene	670		40	20
50-32-8	Benzo[a]pyrene	620		53	26
205-99-2	Benzo[b]fluoranthene	1100		62	31
191-24-2	Benzo[g,h,i]perylene	270		100	22
207-08-9	Benzo[k]fluoranthene	390		40	18
218-01-9	Chrysene	670		46	23
53-70-3	Dibenz(a,h)anthracene	94	J	100	21
206-44-0	Fluoranthene	1200		100	20
86-73-7	Fluorene	46	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	270		100	36
90-12-0	1-Methylnaphthalene	100	J	200	22
91-57-6	2-Methylnaphthalene	140	J	200	36
91-20-3	Naphthalene	110	J	200	22
85-01-8	Phenanthrene	650		40	20
129-00-0	Pyrene	930		100	19

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12012.D
Lab Smp Id: 680-88065-A-1-A Client Smp ID: CV0079A-CS-SP
Inj Date : 12-MAR-2013 13:56
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-1-A
Misc Info : 680-88065-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	14.930	Weight Extracted
M	22.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.152	6.149	(1.000)	2254464	40.0000	
* 6 Acenaphthene-d10	164	7.821	7.818	(1.000)	1425435	40.0000	
* 9 Phenanthrene-d10	188	9.078	9.075	(1.000)	2423848	40.0000	
$ 13 o-Terphenyl	230	9.384	9.386	(1.034)	69238	1.84721	630
* 17 Chrysene-d12	240	11.416	11.414	(1.000)	2371181	40.0000	
* 22 Perylene-d12	264	13.279	13.282	(1.000)	1781169	40.0000	
2 Naphthalene	128	6.176	6.173	(1.004)	19041	0.31573	110
3 2-Methylnaphthalene	142	6.869	6.872	(1.117)	15662	0.40768	140
4 1-Methylnaphthalene	142	6.963	6.960	(1.132)	11052	0.30721	100
5 Acenaphthylene	152	7.691	7.688	(0.983)	5516	0.08777	30
8 Fluorene	166	8.285	8.288	(1.059)	6082	0.13585	47
10 Phenanthrene	178	9.096	9.099	(1.002)	132121	1.92022	660
11 Anthracene	178	9.137	9.140	(1.006)	29732	0.43189	150
12 Carbazole	167	9.272	9.275	(1.021)	16514	0.26834	92

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.077	10.080	(1.110)	246195	3.42875	1200
15 Pyrene	202	10.265	10.268	(0.899)	203293	2.76394	950
16 Benzo(a)anthracene	228	11.399	11.396	(0.998)	128095	1.97319	680
18 Chrysene	228	11.434	11.443	(1.002)	133775	1.99602	680
19 Benzo(b)fluoranthene	252	12.721	12.730	(0.958)	148551	3.24015	1100
20 Benzo(k)fluoranthene	252	12.756	12.765	(0.961)	56069	1.16802	400
21 Benzo(a)pyrene	252	13.173	13.188	(0.992)	82723	1.82333	630
23 Indeno(1,2,3-cd)pyrene	276	14.877	14.898	(1.120)	38142	0.78777	270(M)
24 Dibenzo(a,h)anthracene	278	14.906	14.927	(1.123)	12482	0.27915	96
25 Benzo(g,h,i)perylene	276	15.330	15.356	(1.154)	36928	0.79995	270(H)

QC Flag Legend

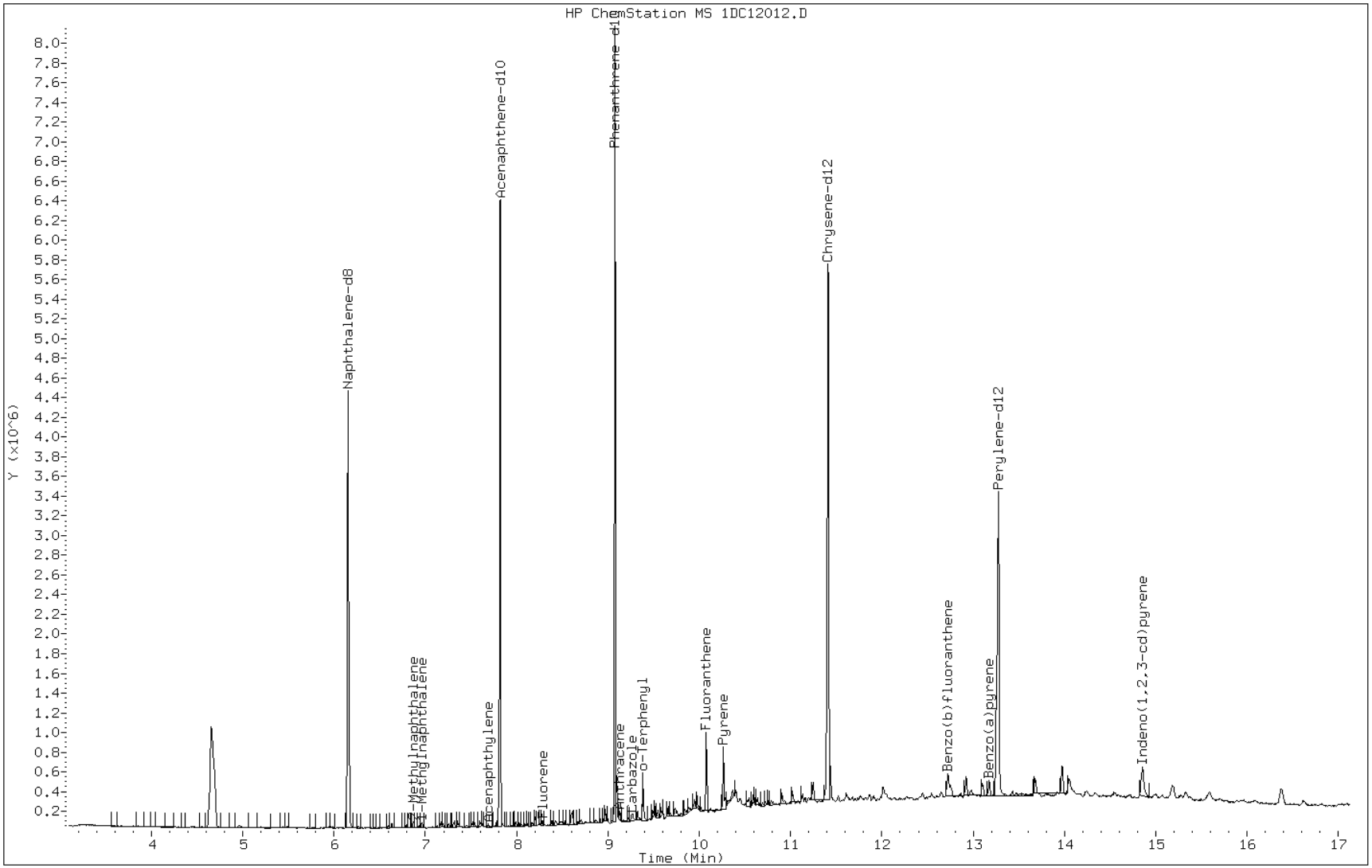
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC



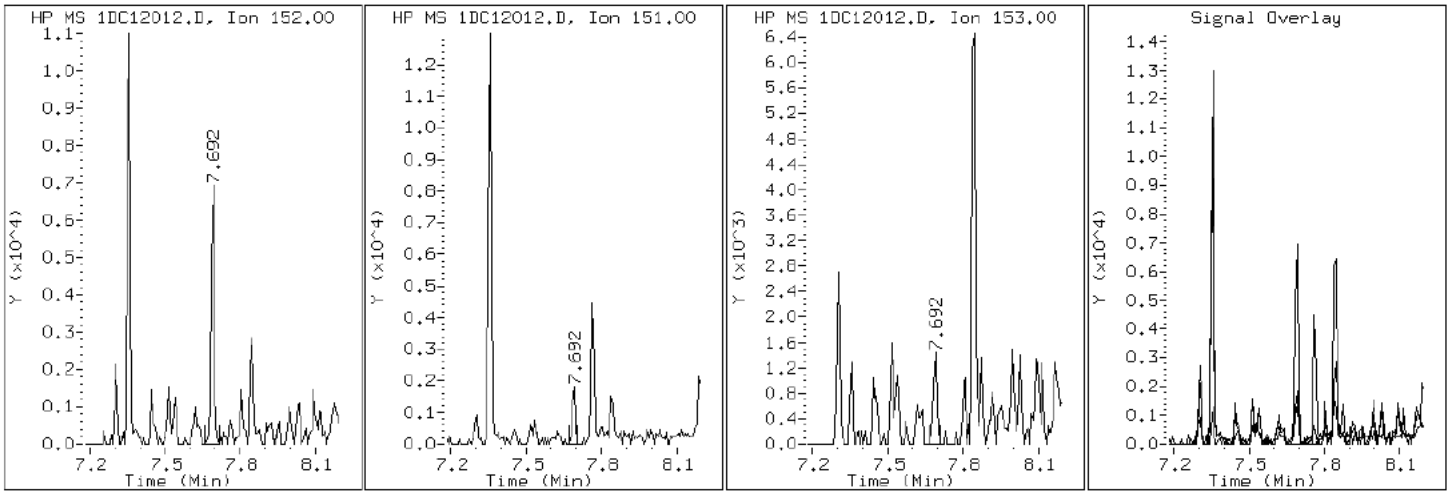
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

5 Acenaphthylene



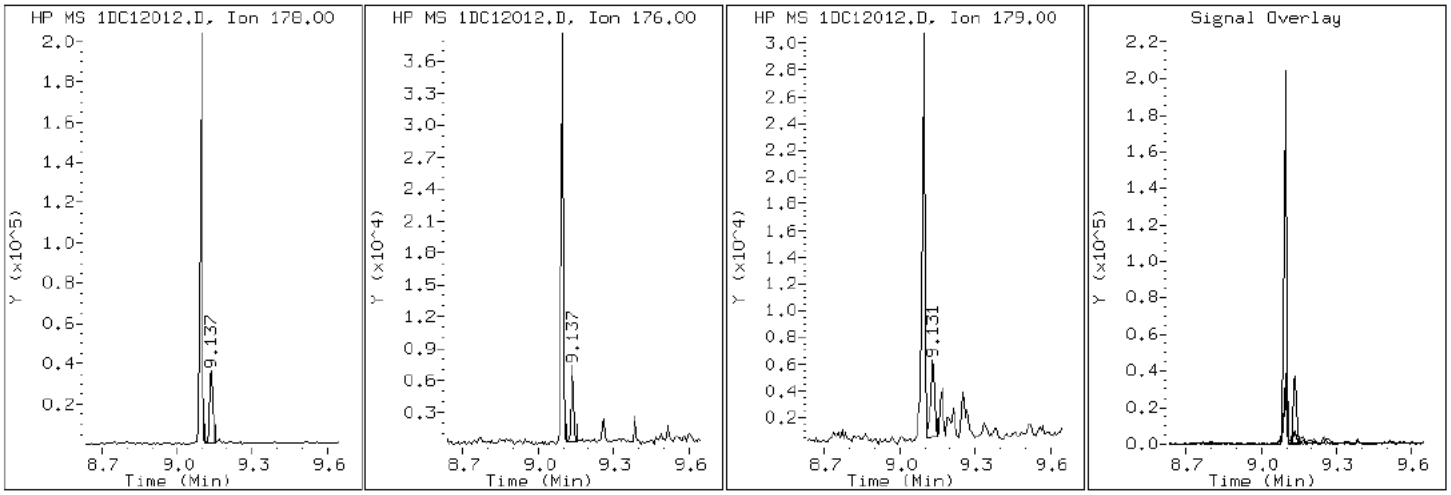
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

11 Anthracene



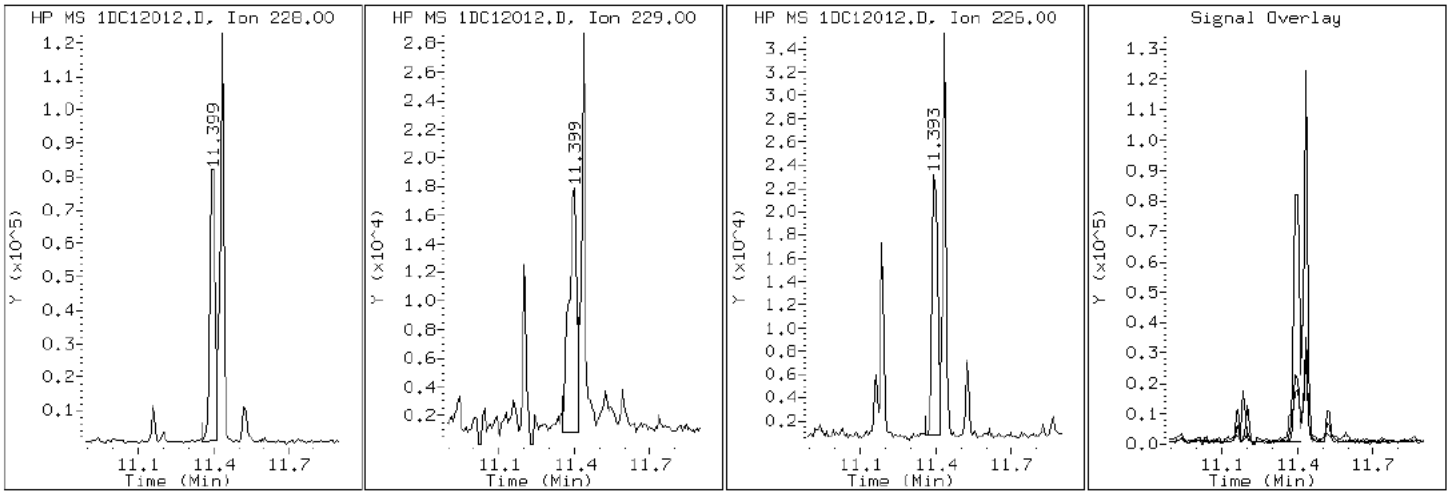
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

16 Benzo(a)anthracene



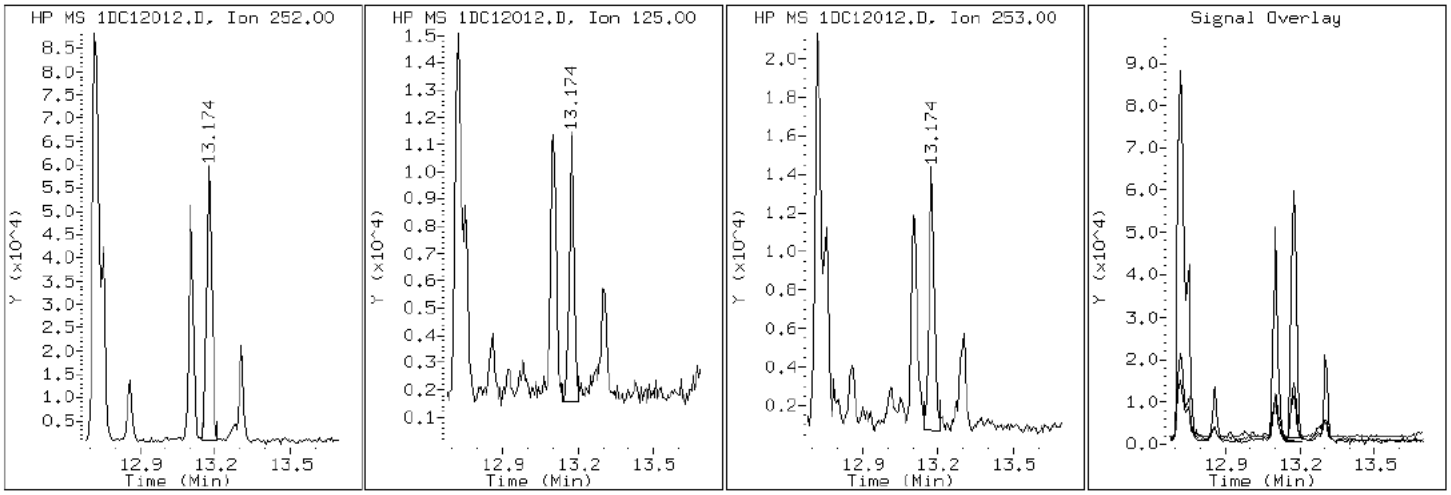
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

21 Benzo(a)pyrene



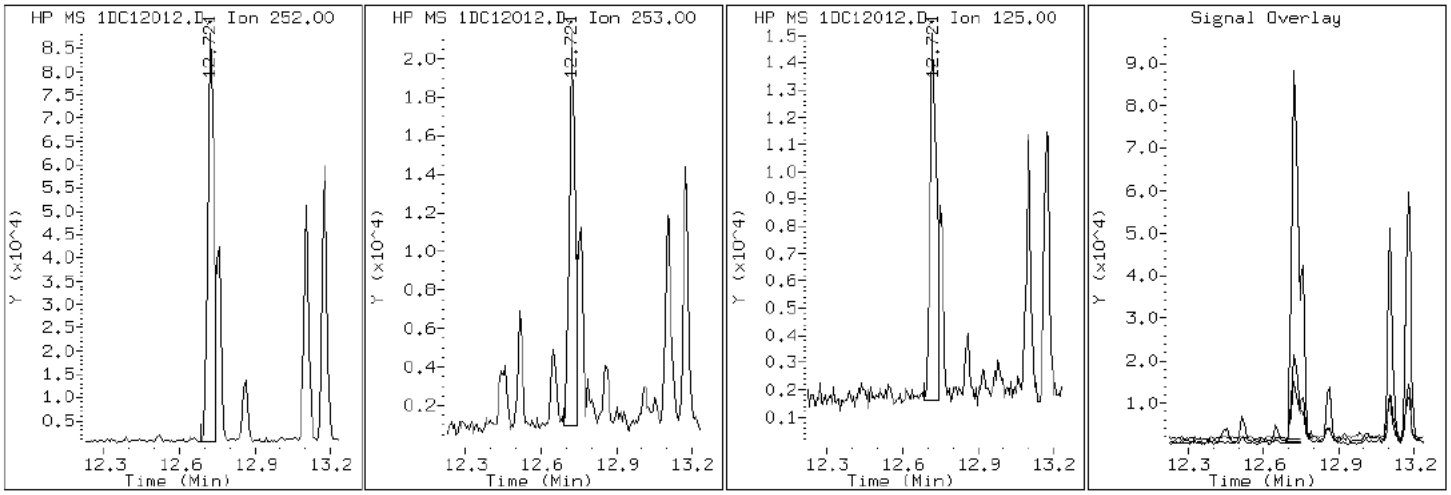
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

19 Benzo(b)fluoranthene



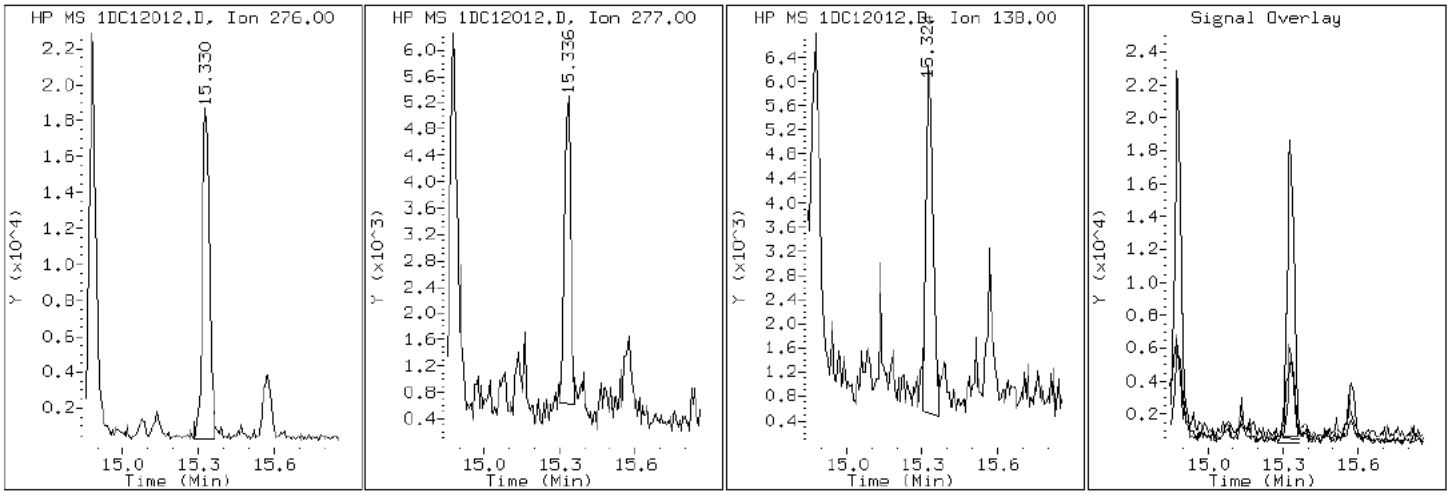
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

25 Benzo(g,h,i)perylene



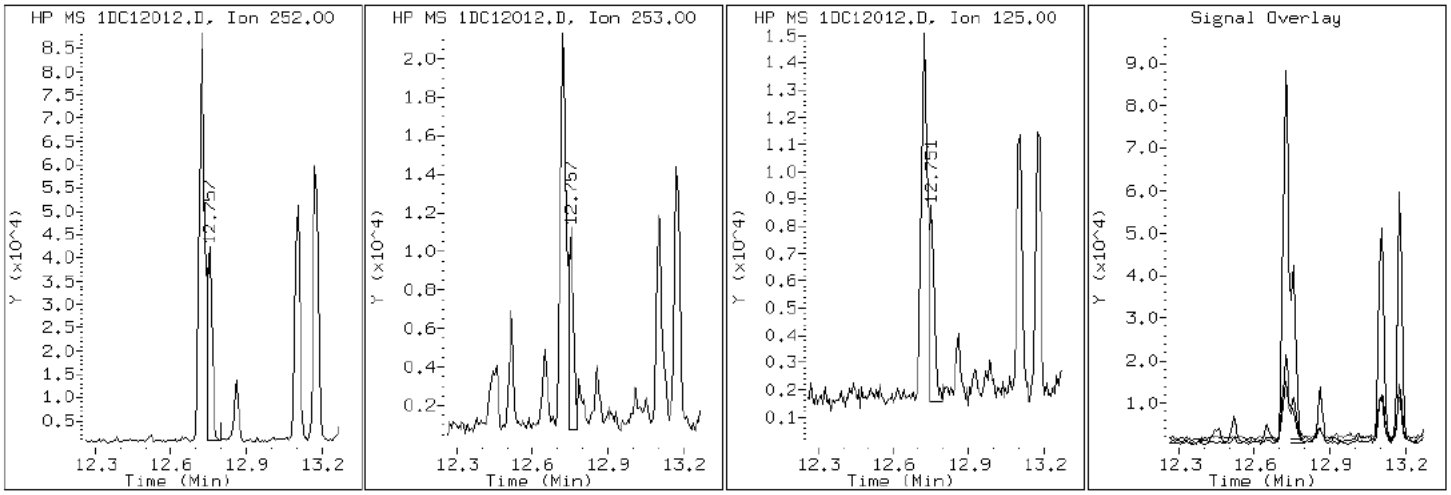
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

20 Benzo(k)fluoranthene



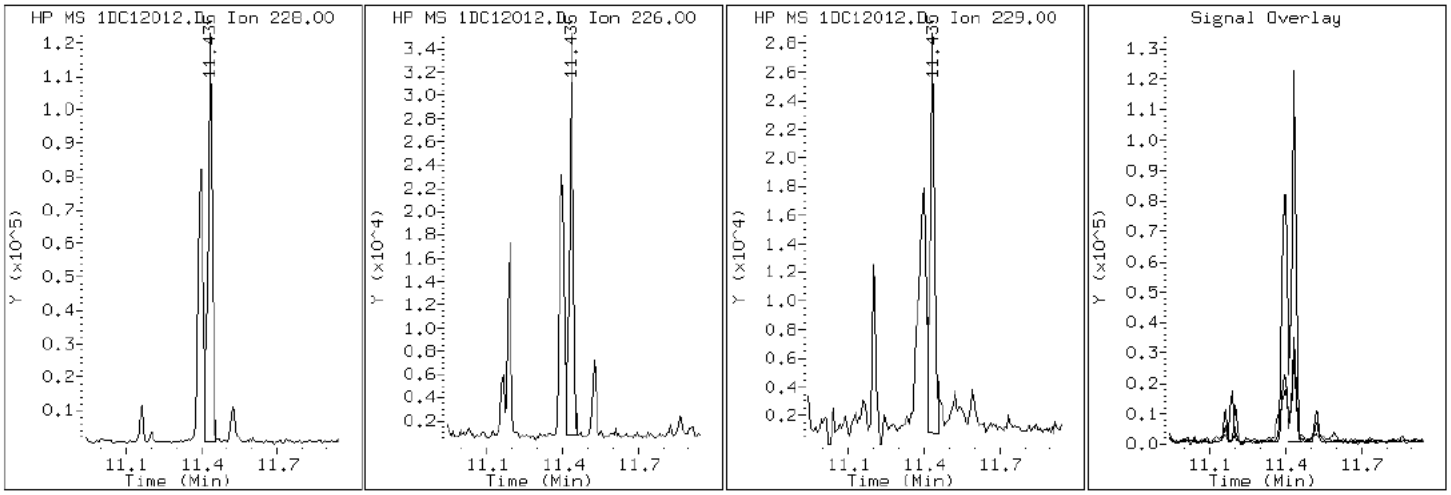
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

18 Chrysene



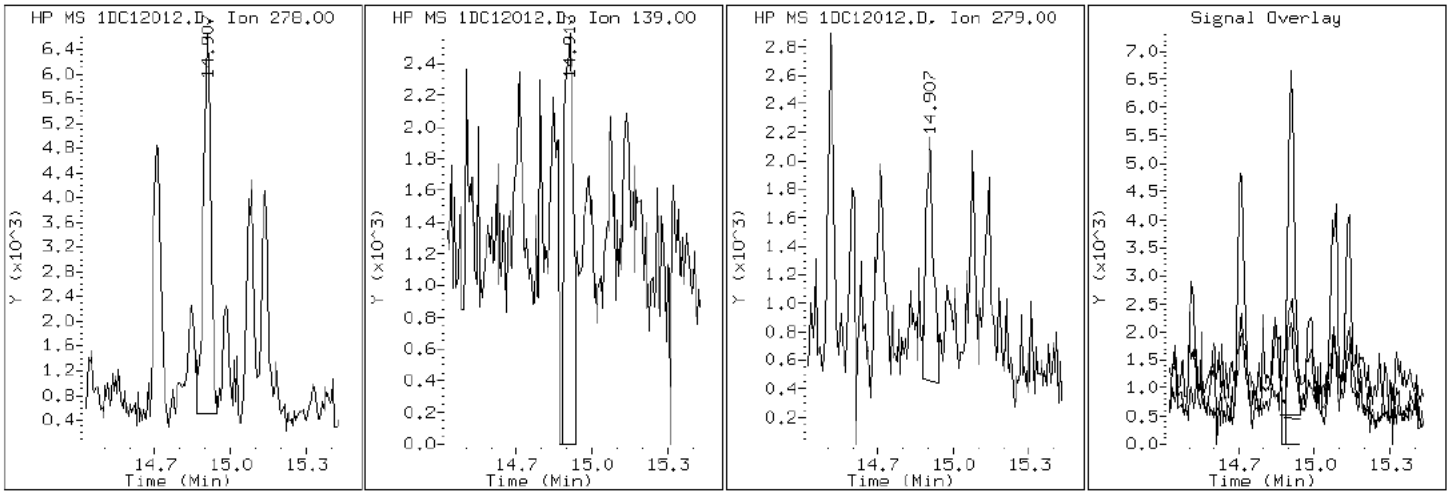
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

24 Dibenzo(a,h)anthracene



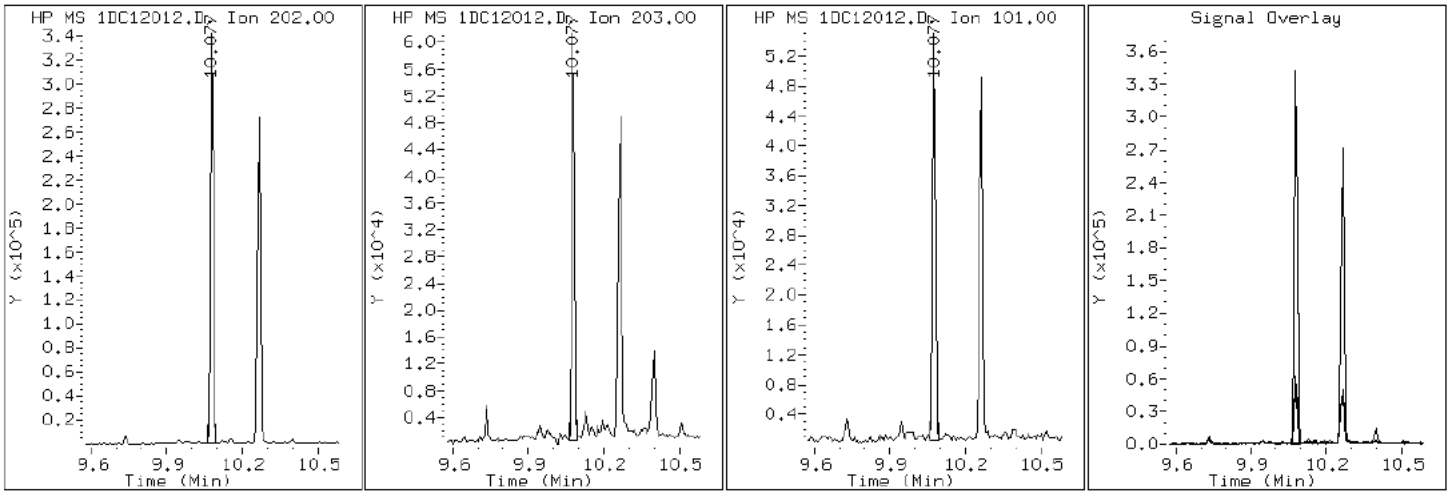
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

14 Fluoranthene



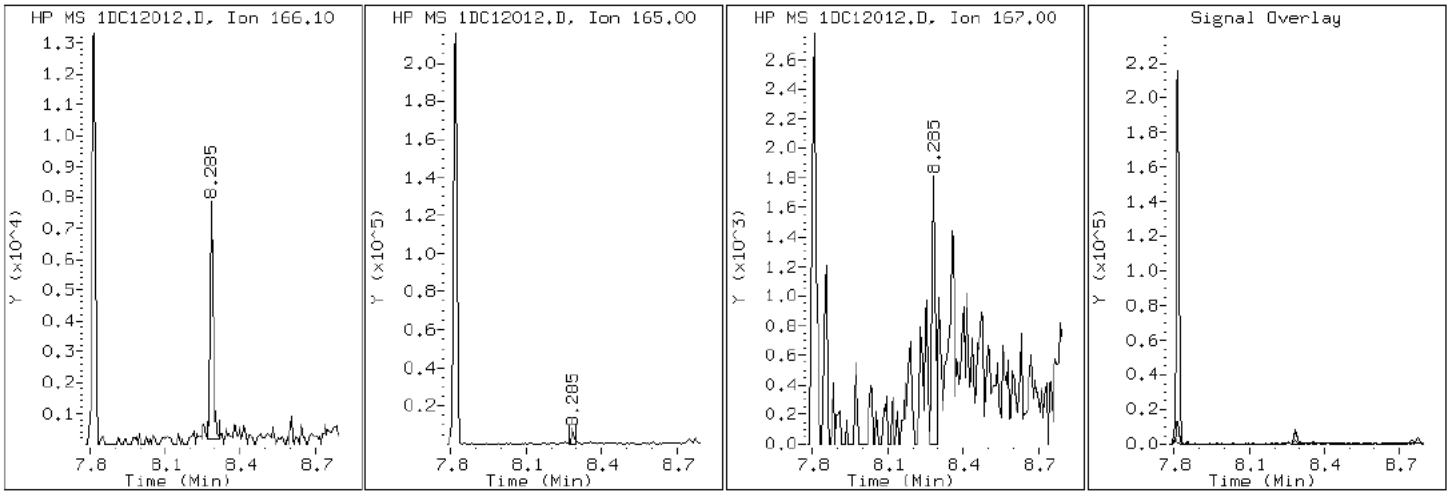
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

8 Fluorene



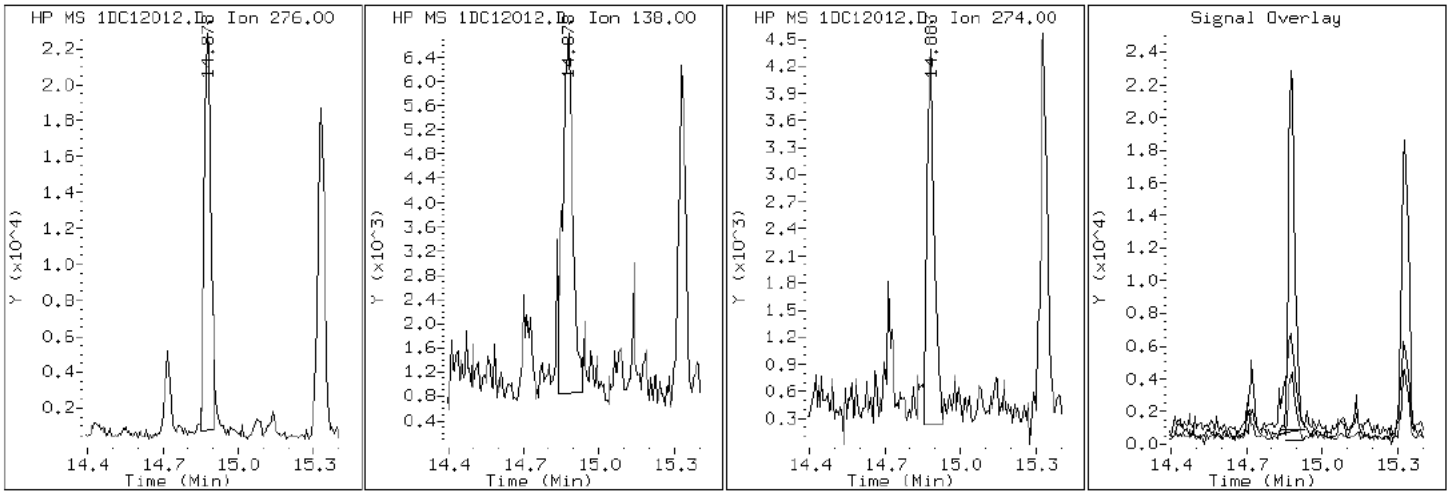
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

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



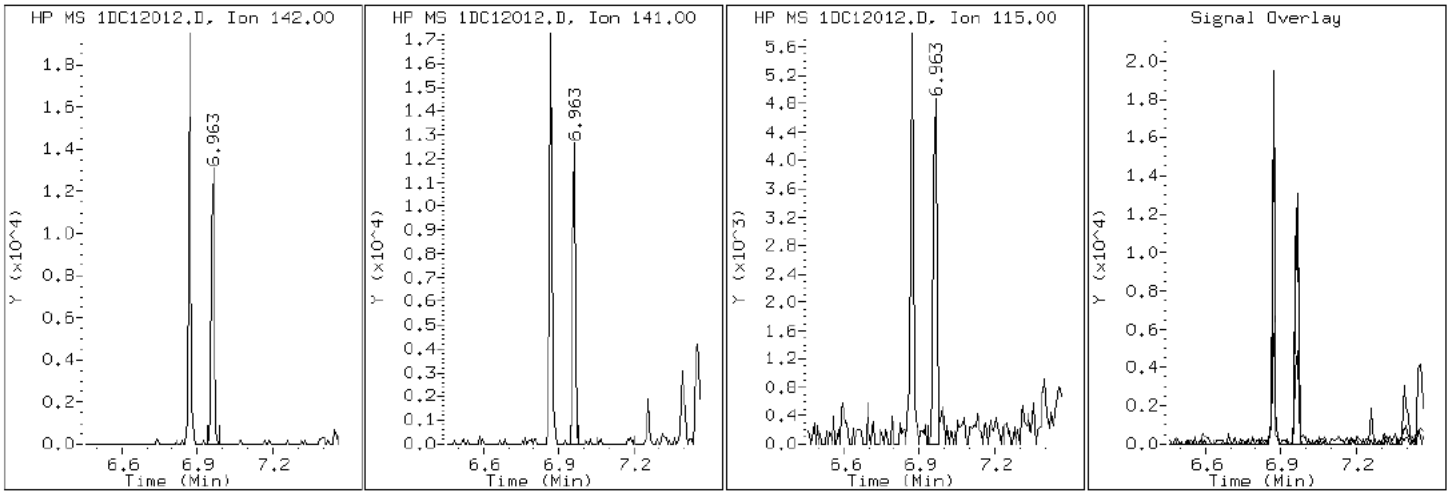
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

4 1-Methylnaphthalene



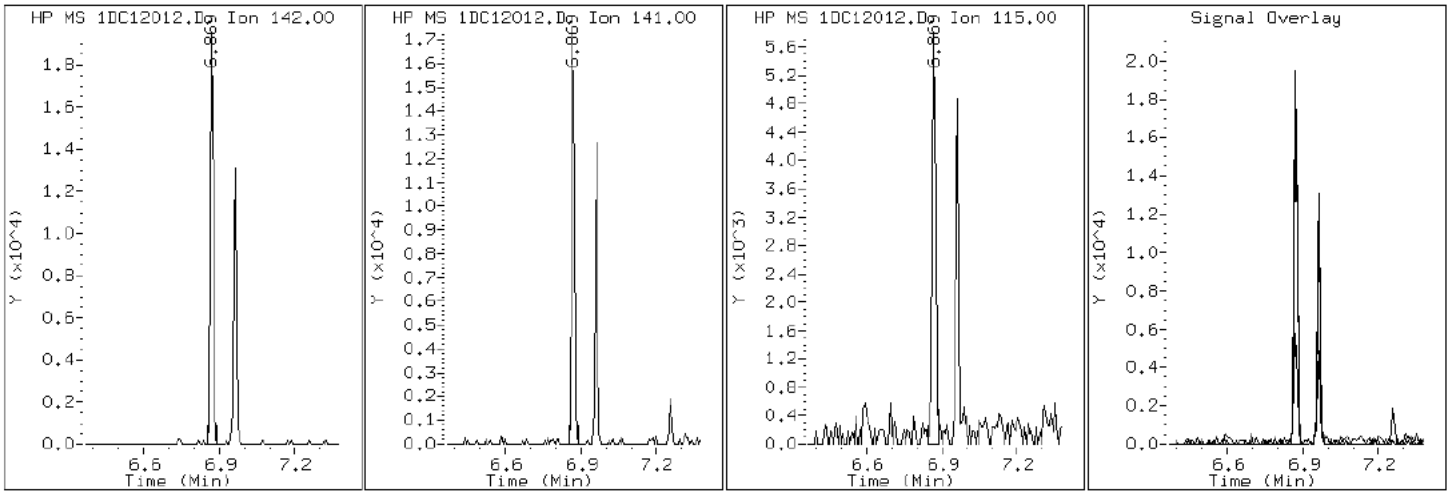
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

3 2-Methylnaphthalene



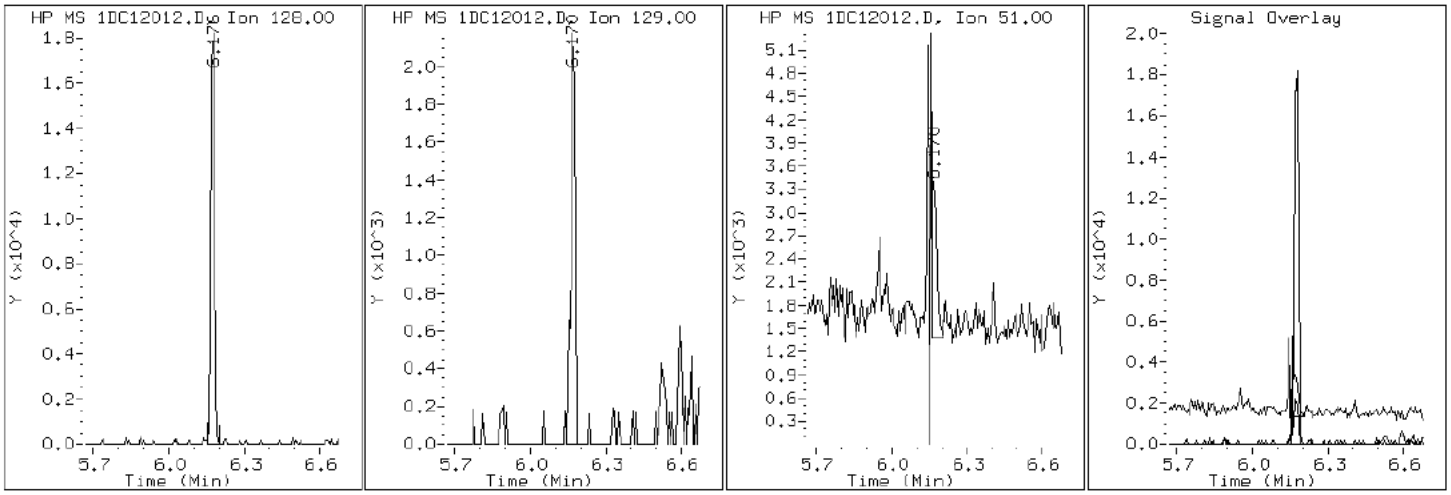
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

2 Naphthalene



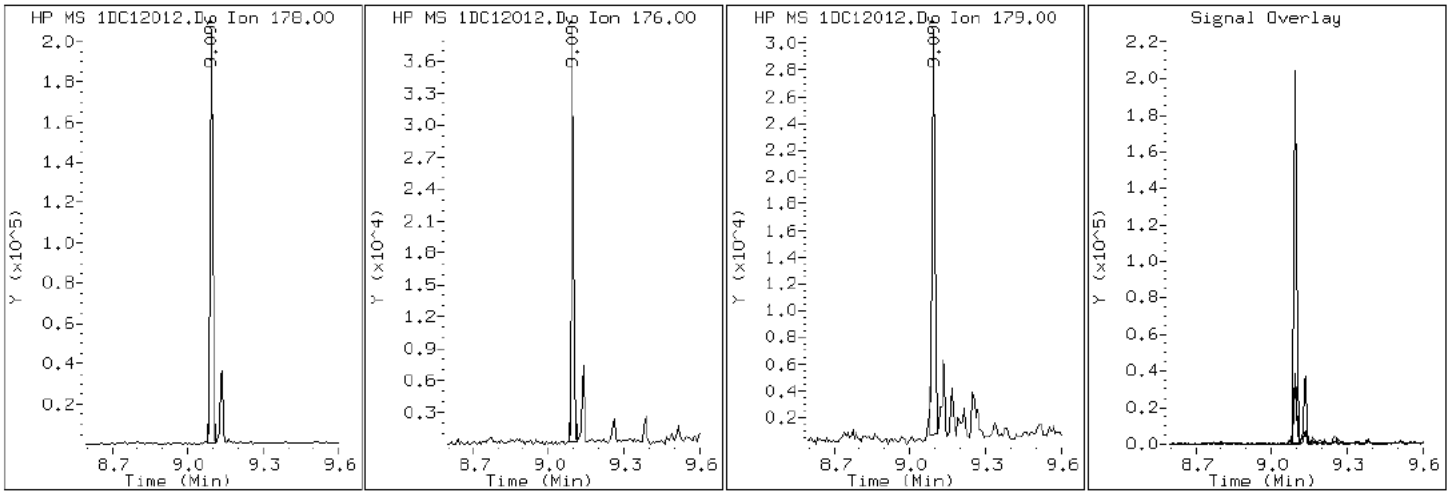
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

10 Phenanthrene



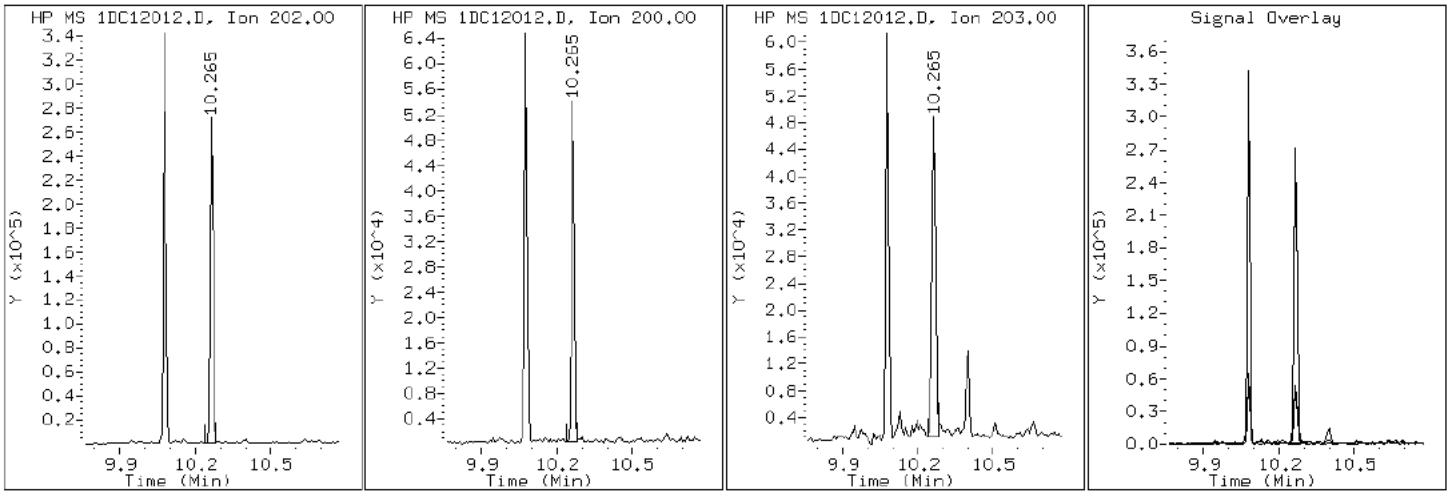
Data File: 1DC12012.D

Date: 12-MAR-2013 13:56

Client ID: CV0079A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-1-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12012.D
Inj. Date and Time: 12-MAR-2013 13:56
Instrument ID: BSMSD.i
Client ID: CV0079A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

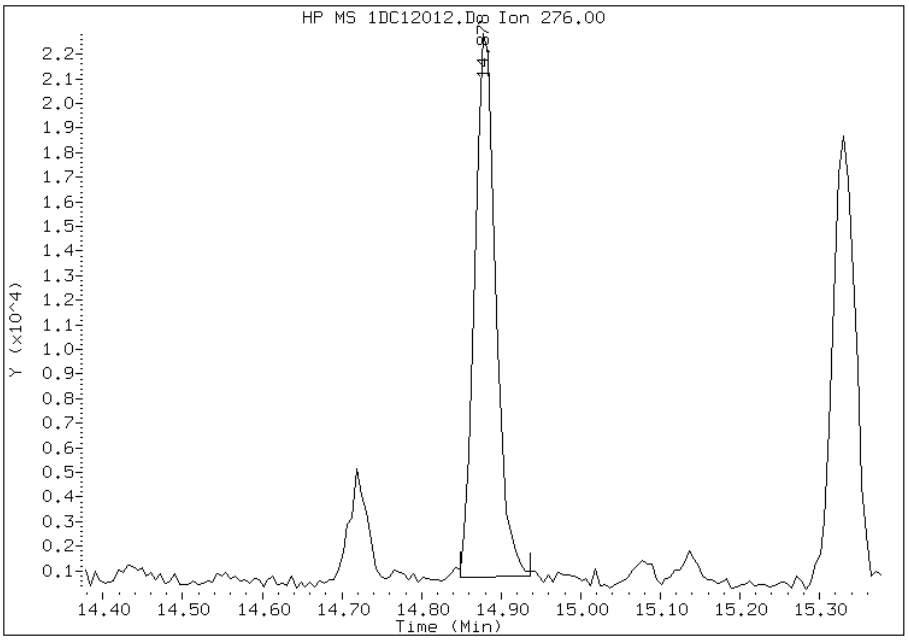
Processing Integration Results

RT: 14.88

Response: 40352

Amount: 1

Conc: 286



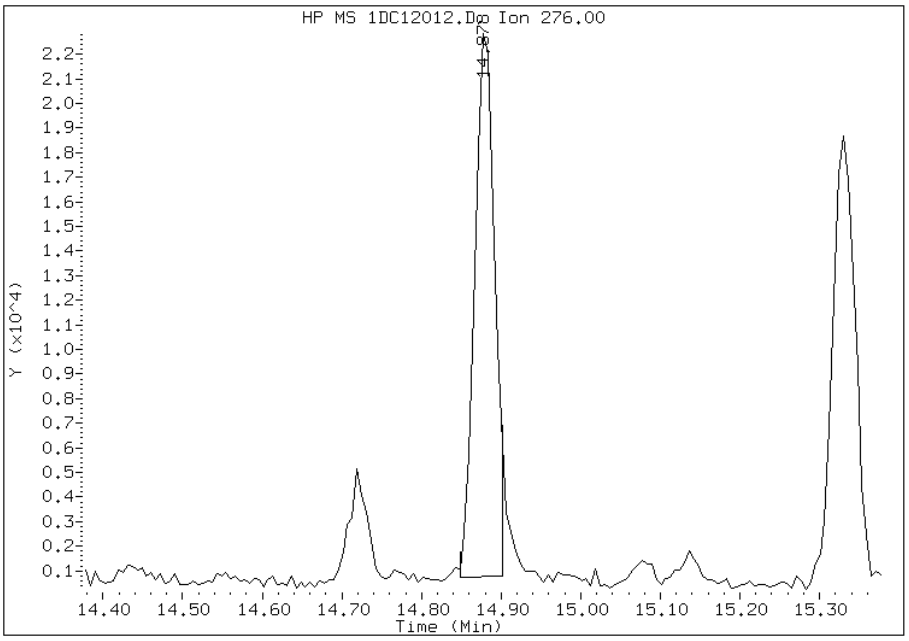
Manual Integration Results

RT: 14.88

Response: 38142

Amount: 1

Conc: 271



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 11:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0079B-CS-SP | Lab Sample ID: 680-88065-2

Matrix: Solid | Lab File ID: 1DC12013.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 10:00

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.99(g) | Date Analyzed: 03/12/2013 14:18

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

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

% Moisture: 22.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	60	J	210	26
120-12-7	Anthracene	170		43	22
56-55-3	Benzo[a]anthracene	800		41	20
50-32-8	Benzo[a]pyrene	790		53	27
205-99-2	Benzo[b]fluoranthene	1400		63	31
191-24-2	Benzo[g,h,i]perylene	340		100	23
207-08-9	Benzo[k]fluoranthene	540		41	18
218-01-9	Chrysene	850		46	23
53-70-3	Dibenz(a,h)anthracene	120		100	21
206-44-0	Fluoranthene	1400		100	21
86-73-7	Fluorene	48	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	370		100	36
90-12-0	1-Methylnaphthalene	110	J	210	23
91-57-6	2-Methylnaphthalene	120	J	210	36
91-20-3	Naphthalene	88	J	210	23
85-01-8	Phenanthrene	680		41	20
129-00-0	Pyrene	1100		100	19

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12013.D
Lab Smp Id: 680-88065-A-2-A Client Smp ID: CV0079B-CS-SP
Inj Date : 12-MAR-2013 14:18
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-2-A
Misc Info : 680-88065-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	19.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.154	6.149	(1.000)	2276839	40.0000	
* 6 Acenaphthene-d10	164	7.817	7.818	(1.000)	1430796	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2475313	40.0000	
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	66885	1.74734	580
* 17 Chrysene-d12	240	11.413	11.414	(1.000)	2373951	40.0000	
* 22 Perylene-d12	264	13.276	13.282	(1.000)	1749677	40.0000	
2 Naphthalene	128	6.172	6.173	(1.003)	15604	0.25619	84
3 2-Methylnaphthalene	142	6.871	6.872	(1.116)	14139	0.36442	120
4 1-Methylnaphthalene	142	6.959	6.960	(1.131)	11275	0.31033	100
5 Acenaphthylene	152	7.688	7.688	(0.983)	11120	0.17628	58
8 Fluorene	166	8.281	8.288	(1.059)	6263	0.13937	46
10 Phenanthrene	178	9.092	9.099	(1.001)	139030	1.97863	650
11 Anthracene	178	9.133	9.140	(1.006)	34268	0.48744	160
12 Carbazole	167	9.274	9.275	(1.021)	23999	0.38186	120

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.079	10.080	(1.110)	297373	4.05540	1300
15 Pyrene	202	10.267	10.268	(0.900)	246565	3.34835	1100
16 Benzo(a)anthracene	228	11.395	11.396	(0.998)	152464	2.34583	770
18 Chrysene	228	11.437	11.443	(1.002)	166055	2.47477	820
19 Benzo(b)fluoranthene	252	12.717	12.730	(0.958)	181134	4.02195	1300
20 Benzo(k)fluoranthene	252	12.753	12.765	(0.961)	74698	1.58411	520
21 Benzo(a)pyrene	252	13.176	13.188	(0.992)	103418	2.32050	760
23 Indeno(1,2,3-cd)pyrene	276	14.880	14.898	(1.121)	51492	1.08264	360(M)
24 Dibenzo(a,h)anthracene	278	14.909	14.927	(1.123)	15143	0.34475	110
25 Benzo(g,h,i)perylene	276	15.332	15.356	(1.155)	45686	1.00748	330

QC Flag Legend

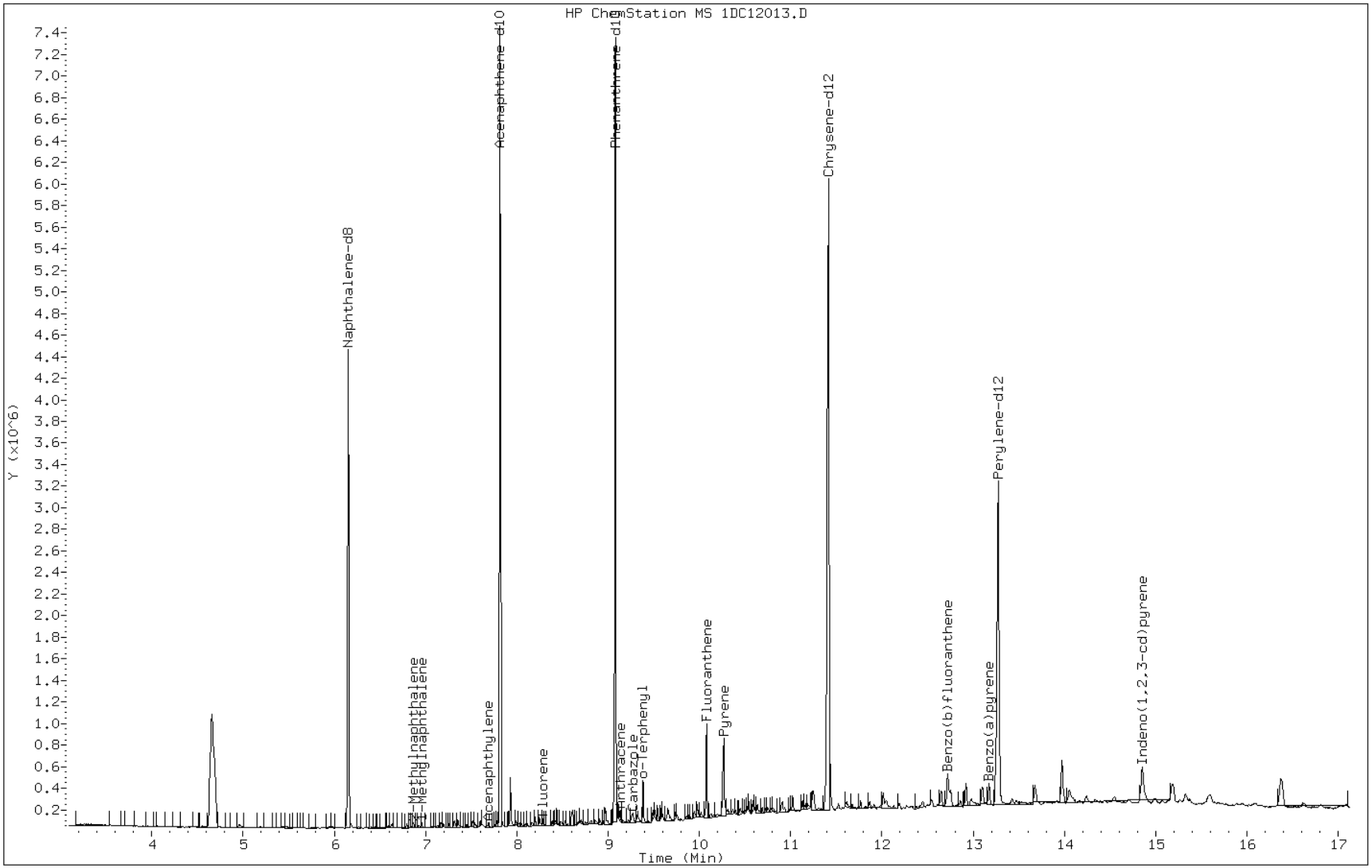
M - Compound response manually integrated.

Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC



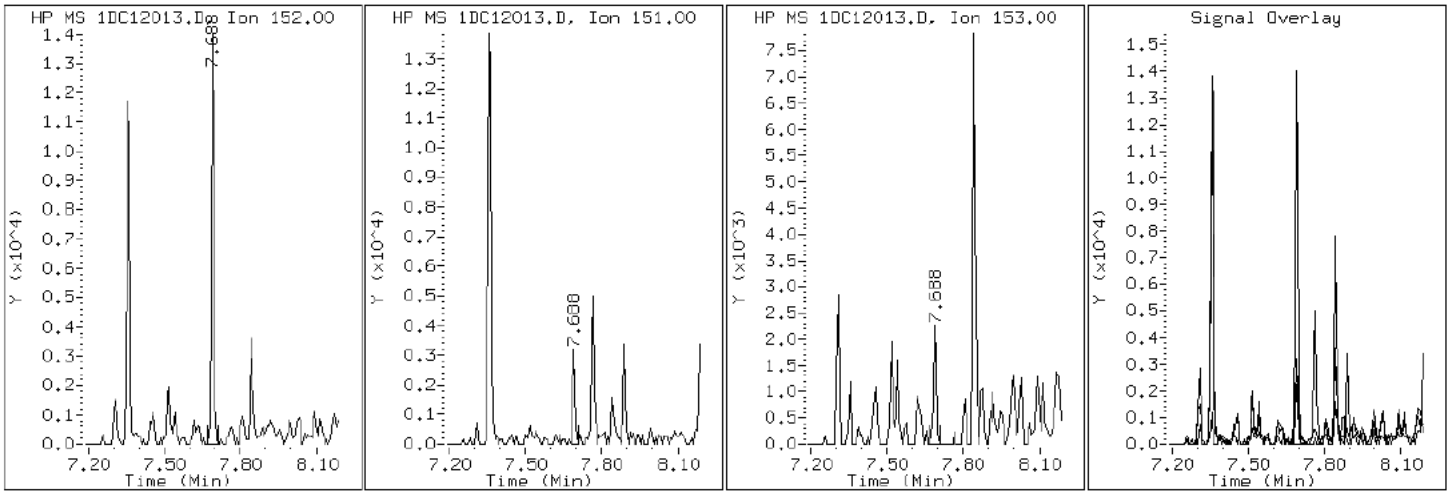
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

5 Acenaphthylene



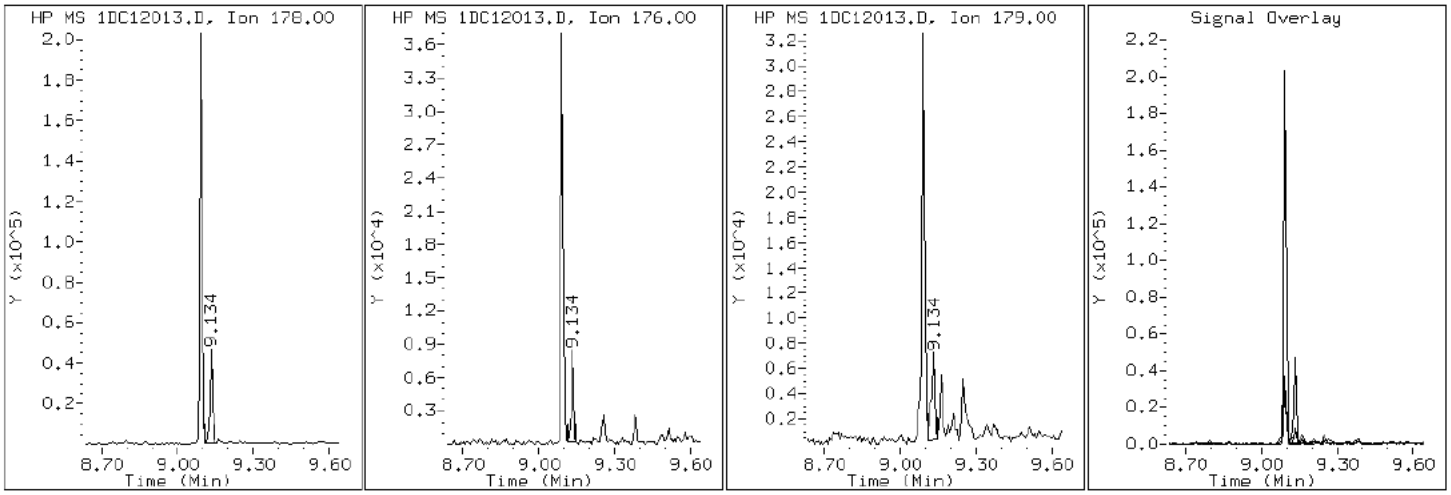
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

11 Anthracene



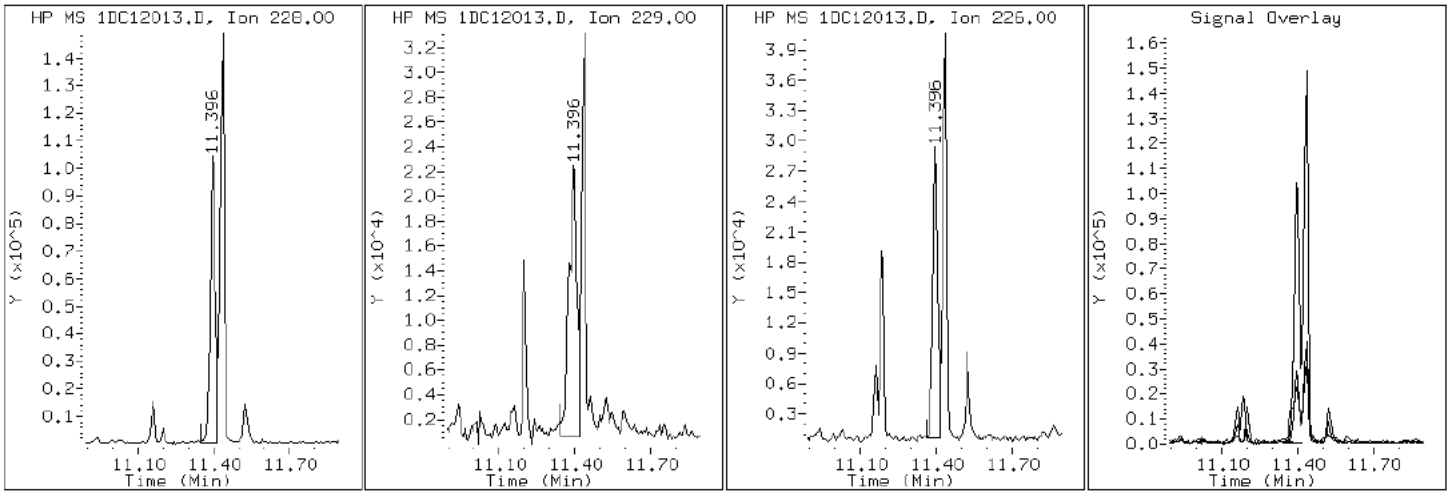
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

16 Benzo(a)anthracene



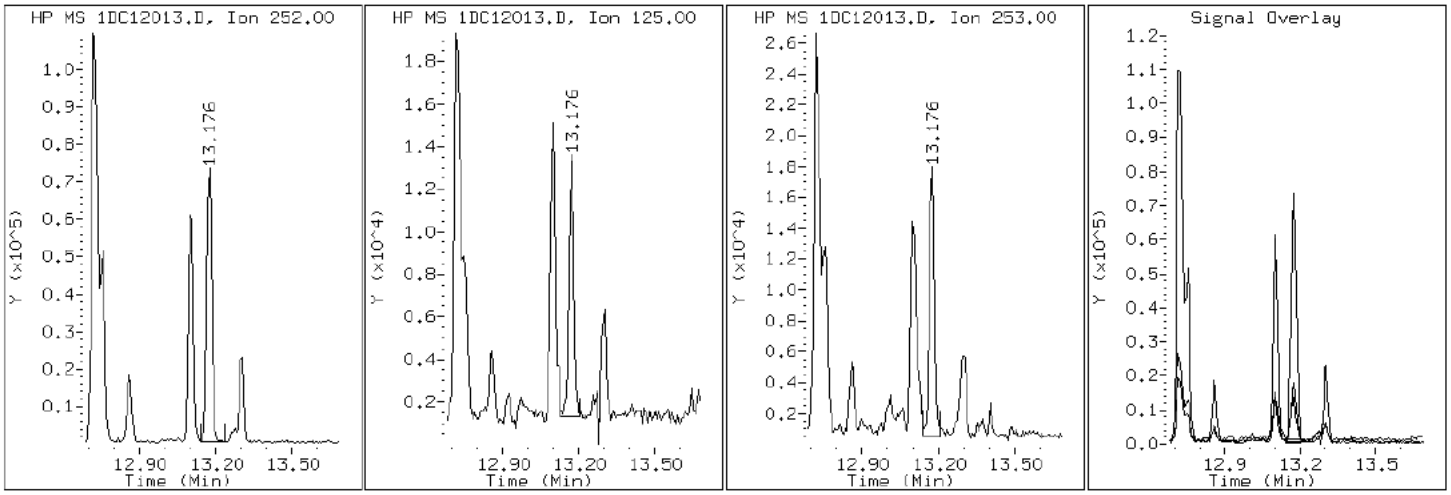
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

21 Benzo(a)pyrene



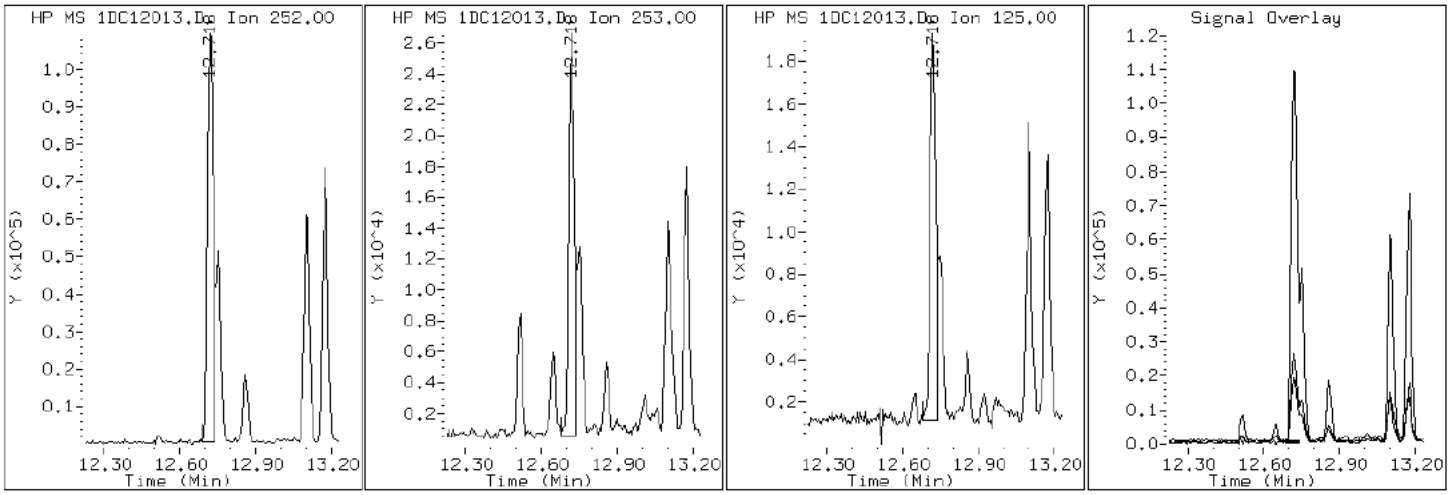
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

19 Benzo(b)fluoranthene



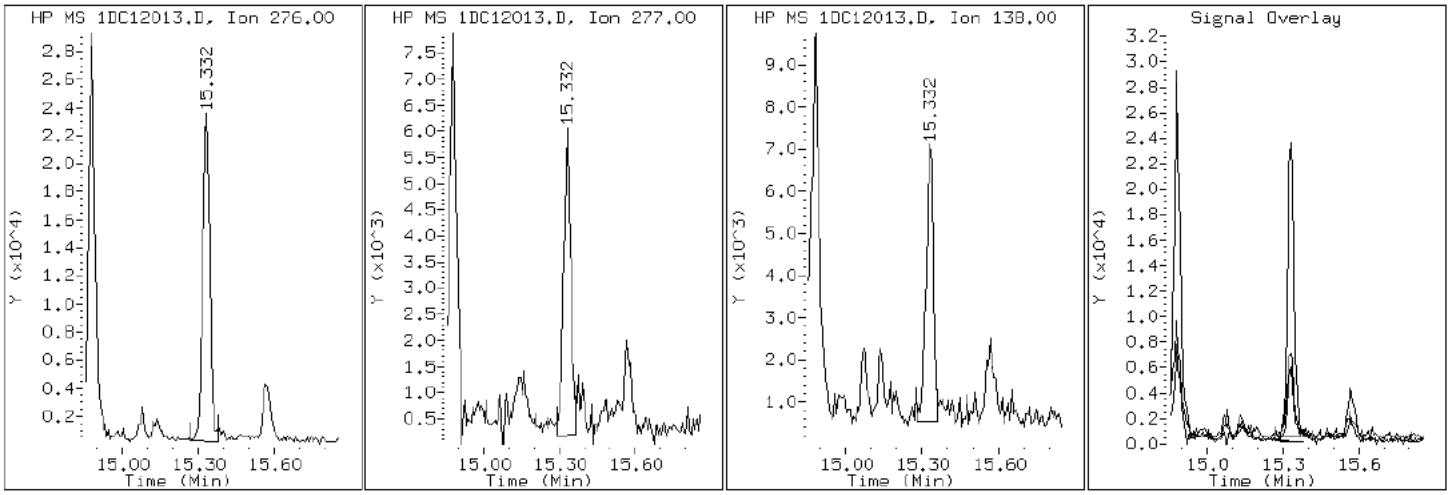
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

25 Benzo(g,h,i)perylene



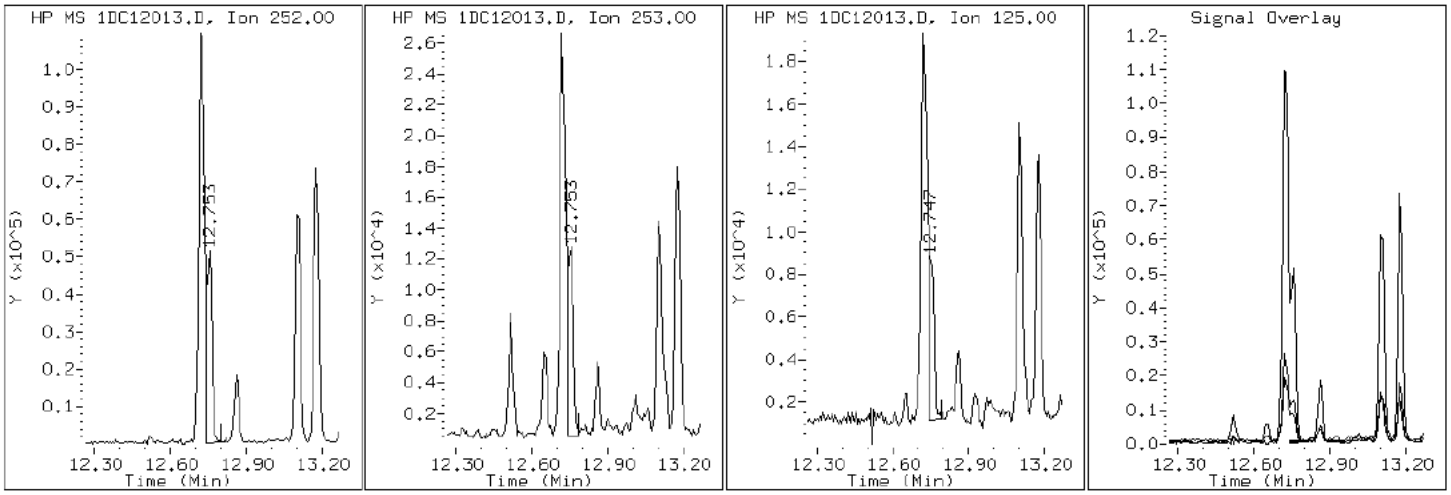
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

20 Benzo(k)fluoranthene



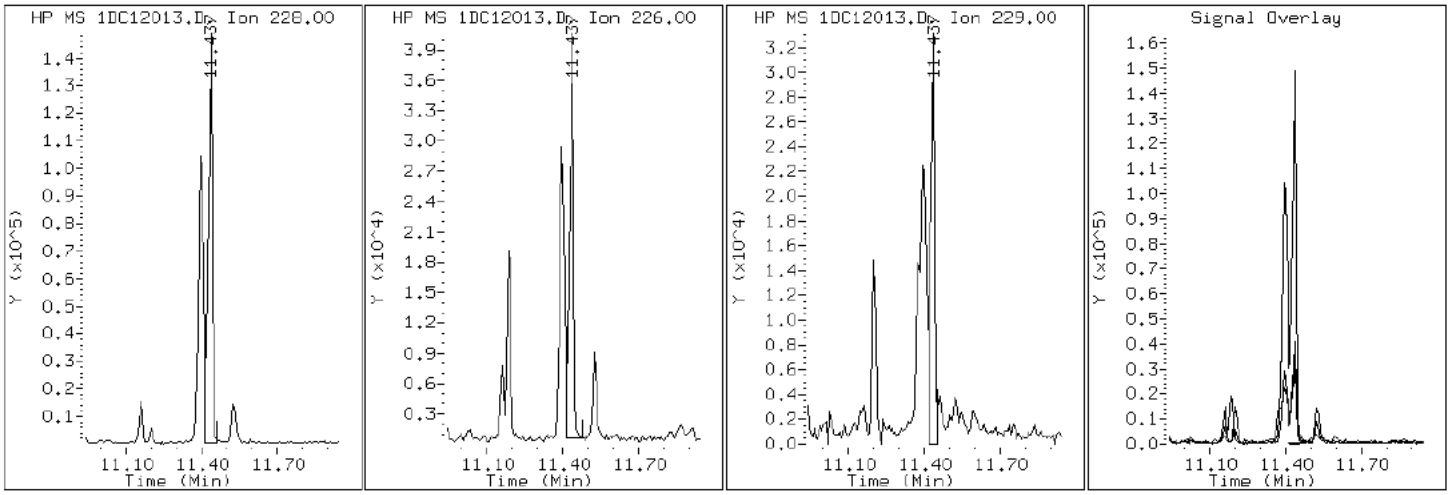
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

18 Chrysene



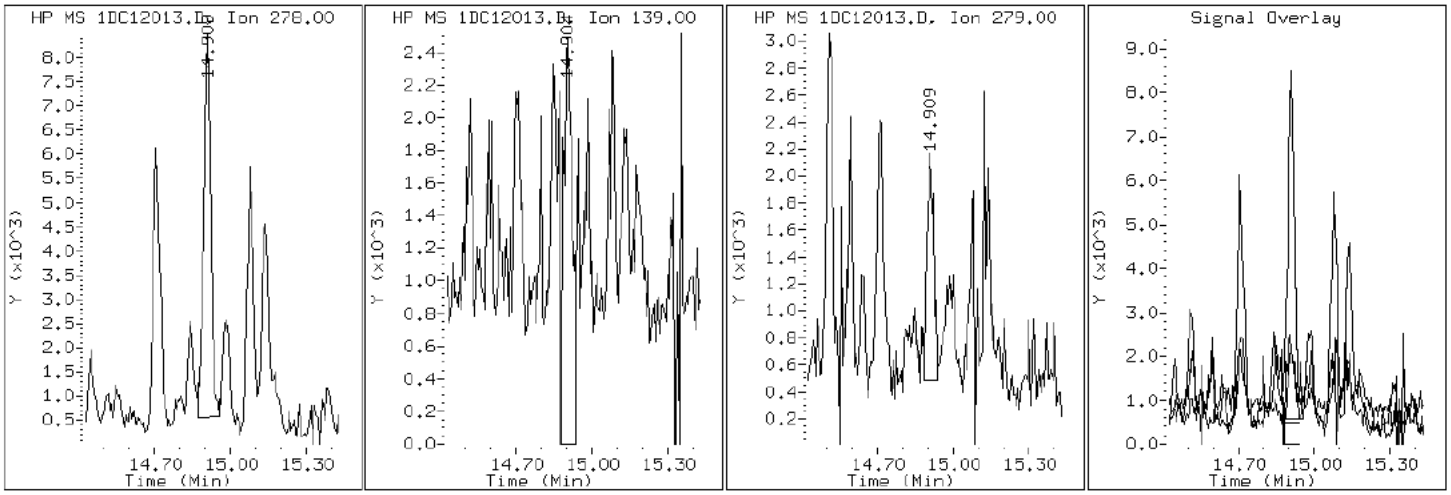
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

24 Dibenzo(a,h)anthracene



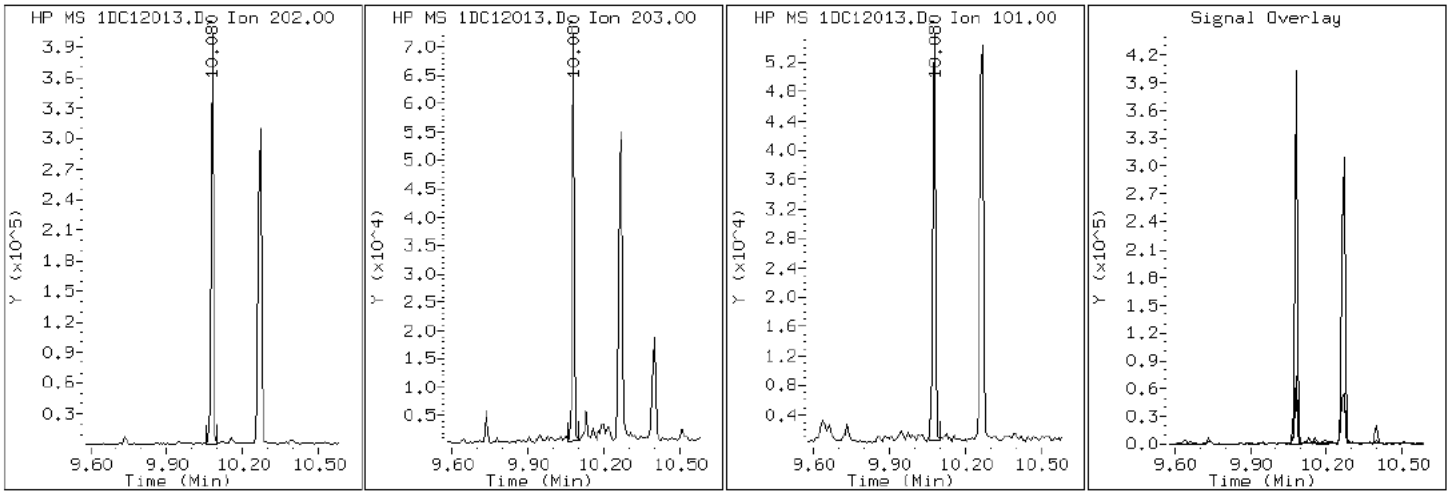
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

14 Fluoranthene



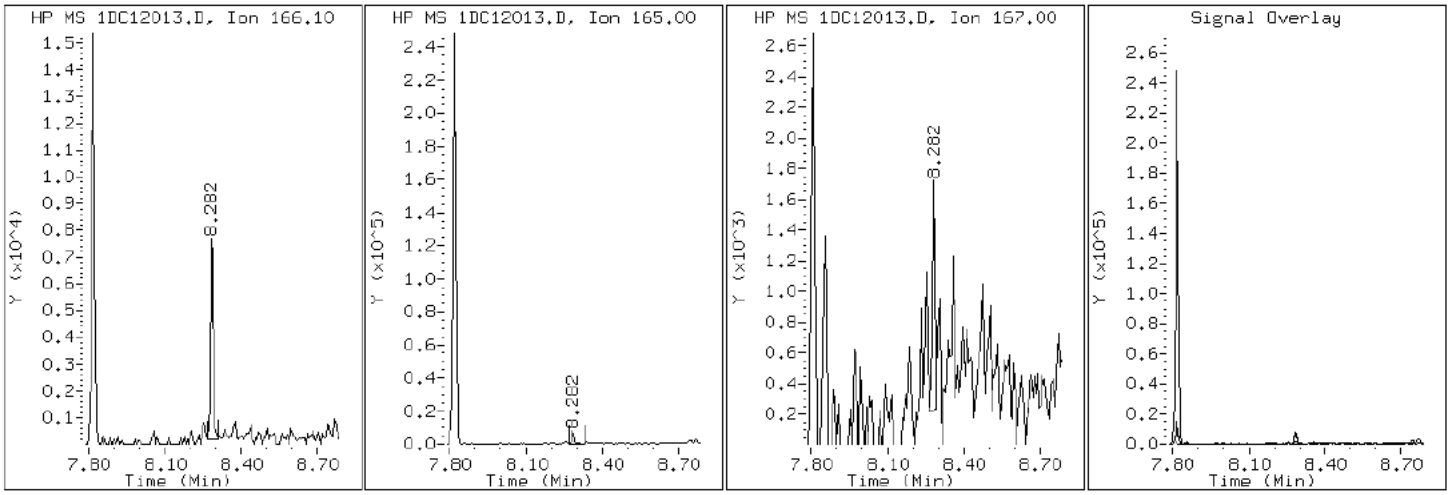
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

8 Fluorene



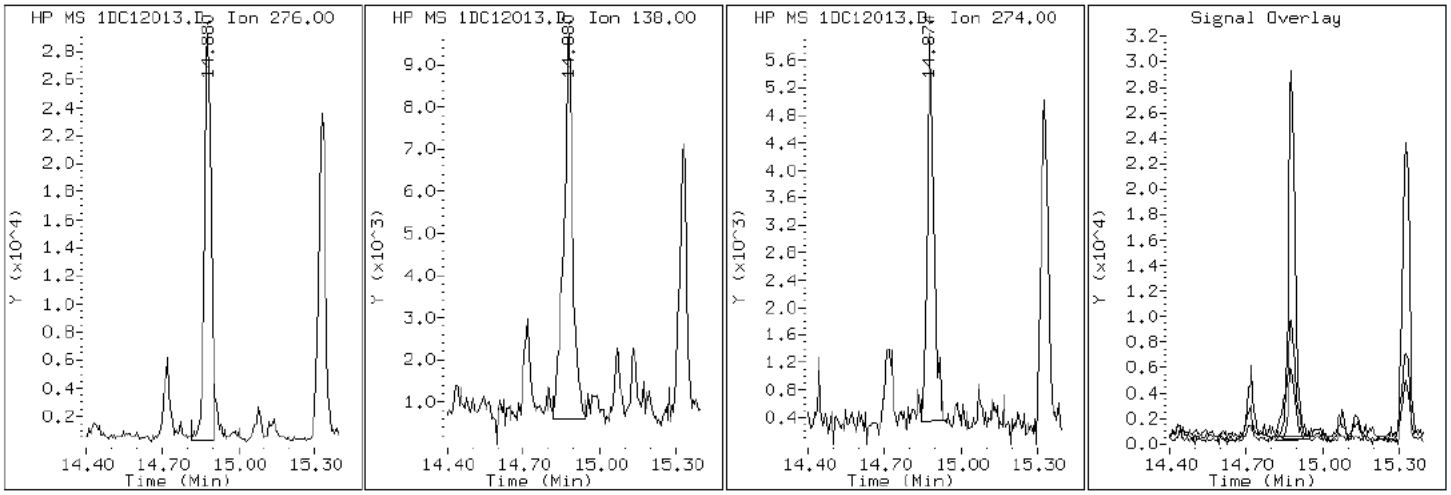
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

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



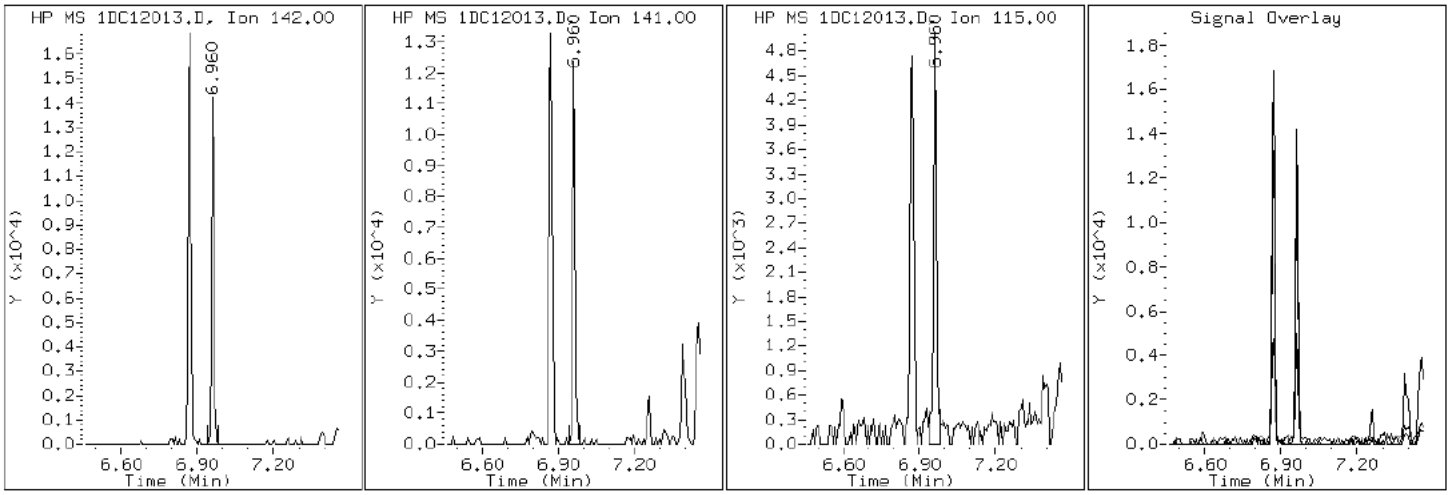
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

4 1-Methylnaphthalene



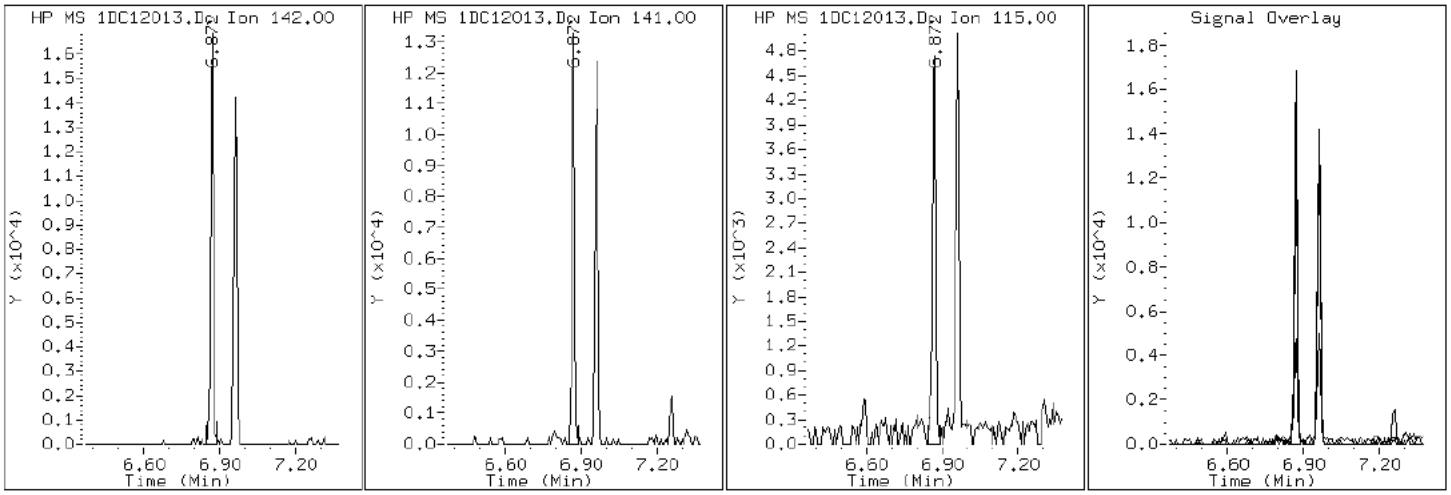
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

3 2-Methylnaphthalene



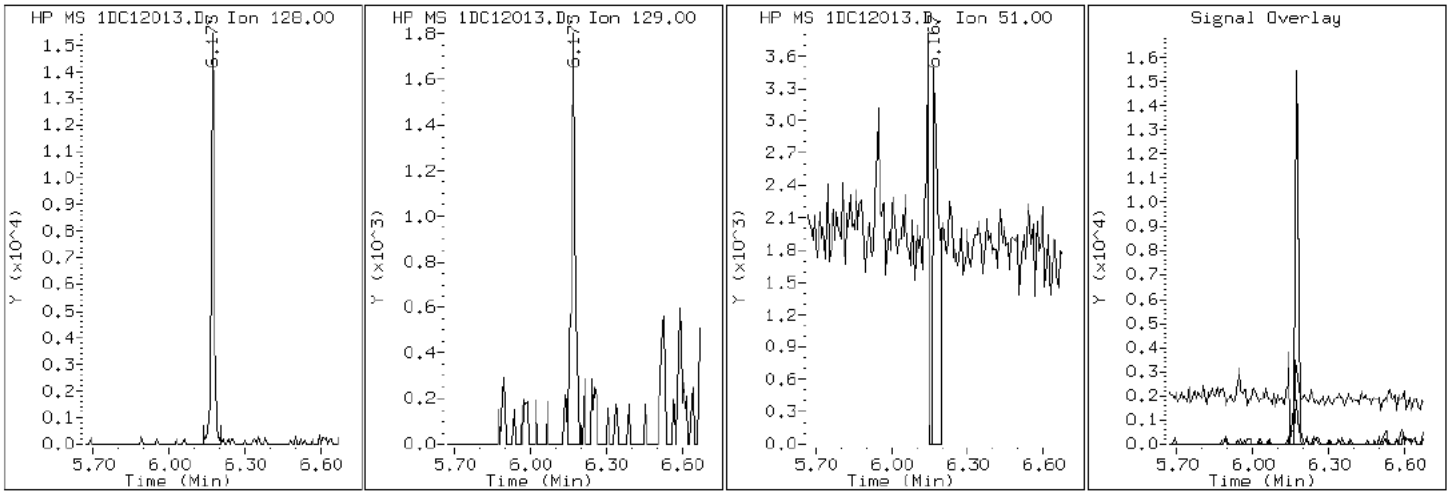
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

2 Naphthalene



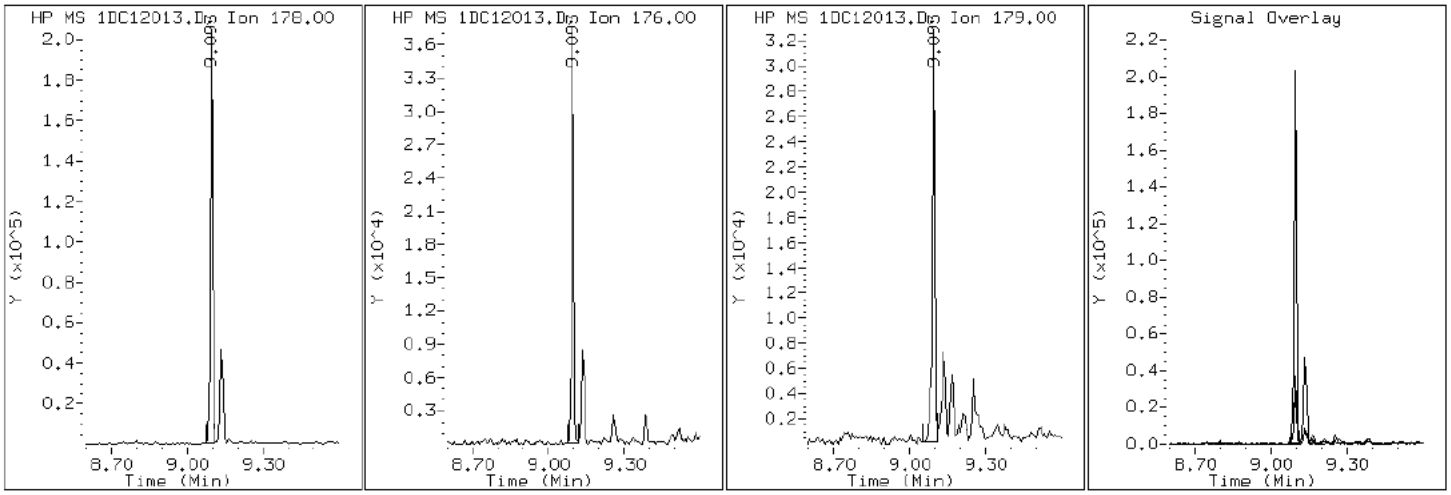
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

10 Phenanthrene



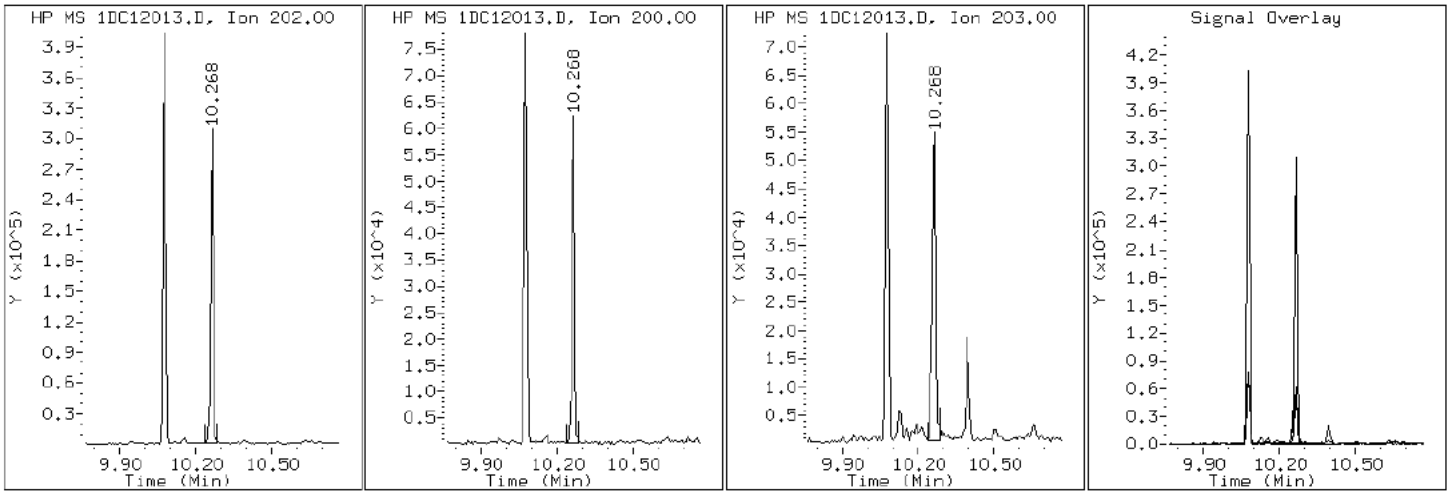
Data File: 1DC12013.D

Date: 12-MAR-2013 14:18

Client ID: CV0079B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-2-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12013.D
Inj. Date and Time: 12-MAR-2013 14:18
Instrument ID: BSMSD.i
Client ID: CV0079B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

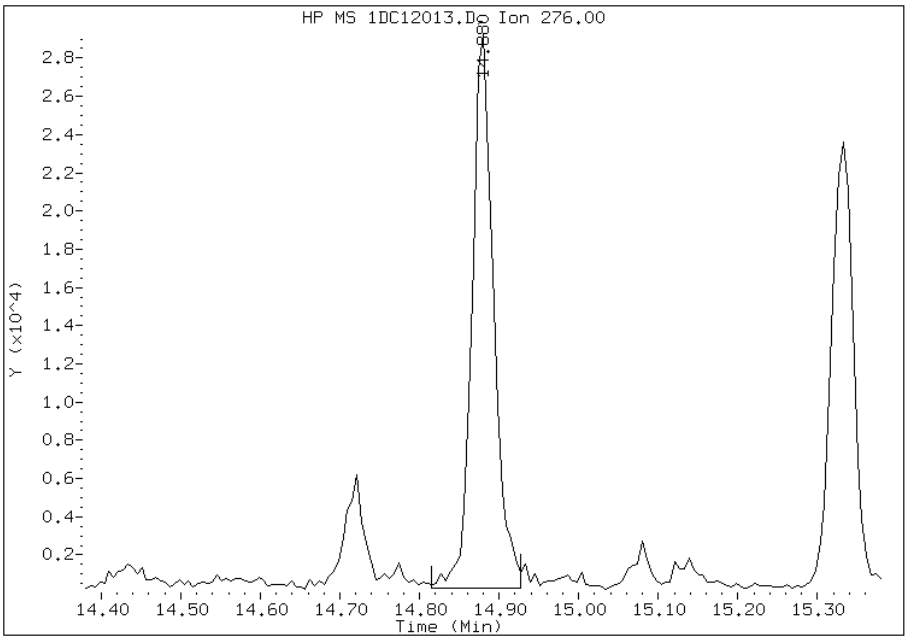
Processing Integration Results

RT: 14.88

Response: 54380

Amount: 1

Conc: 377



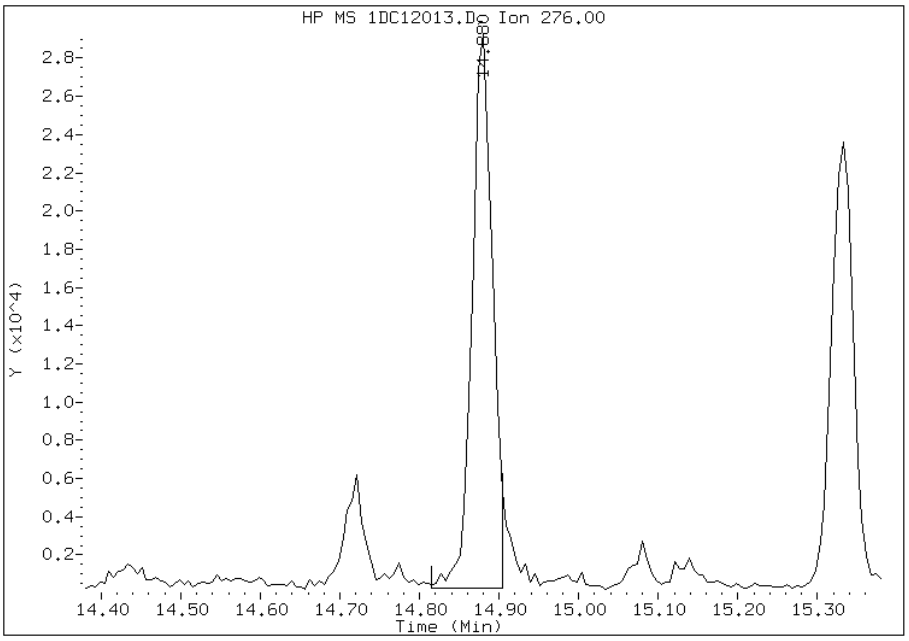
Manual Integration Results

RT: 14.88

Response: 51492

Amount: 1

Conc: 357



Manually Integrated By: cantins
Modification Date: 13-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.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0793A-CS-SP | Lab Sample ID: 680-88065-3

Matrix: Solid | Lab File ID: 1DC12014.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 10:35

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.94(g) | Date Analyzed: 03/12/2013 14:41

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

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

% Moisture: 18.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	25	J	200	25
120-12-7	Anthracene	44		41	21
56-55-3	Benzo[a]anthracene	220		40	19
50-32-8	Benzo[a]pyrene	200		51	26
205-99-2	Benzo[b]fluoranthene	420		60	30
191-24-2	Benzo[g,h,i]perylene	100		99	22
207-08-9	Benzo[k]fluoranthene	150		40	18
218-01-9	Chrysene	330		44	22
53-70-3	Dibenz(a,h)anthracene	36	J	99	20
206-44-0	Fluoranthene	330		99	20
86-73-7	Fluorene	99	U	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	90	J	99	35
90-12-0	1-Methylnaphthalene	210		200	22
91-57-6	2-Methylnaphthalene	240		200	35
91-20-3	Naphthalene	150	J	200	22
85-01-8	Phenanthrene	370		40	19
129-00-0	Pyrene	300		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12014.D
Lab Smp Id: 680-88065-A-3-A Client Smp ID: CV0793A-CS-SP
Inj Date : 12-MAR-2013 14:41
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-3-A
Misc Info : 680-88065-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	20.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.154	6.149	(1.000)	2361345	40.0000	
* 6 Acenaphthene-d10	164	7.817	7.818	(1.000)	1491121	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2524839	40.0000	
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	71102	1.82107	610
* 17 Chrysene-d12	240	11.413	11.414	(1.000)	2314475	40.0000	
* 22 Perylene-d12	264	13.281	13.282	(1.000)	1533147	40.0000	
2 Naphthalene	128	6.172	6.173	(1.003)	28018	0.44355	150
3 2-Methylnaphthalene	142	6.871	6.872	(1.116)	29562	0.73467	240
4 1-Methylnaphthalene	142	6.959	6.960	(1.131)	24360	0.64649	220
5 Acenaphthylene	152	7.688	7.688	(0.983)	5066	0.07706	26
8 Fluorene	166	8.281	8.288	(1.059)	2238	0.04779	16(Q)
10 Phenanthrene	178	9.092	9.099	(1.001)	79676	1.11168	370
11 Anthracene	178	9.133	9.140	(1.006)	9638	0.13440	45
12 Carbazole	167	9.274	9.275	(1.021)	8671	0.13526	45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.079	10.080	(1.110)	74185	0.99185	330
15 Pyrene	202	10.267	10.268	(0.900)	65039	0.90593	300
16 Benzo(a)anthracene	228	11.401	11.396	(0.999)	42565	0.67174	220
18 Chrysene	228	11.436	11.443	(1.002)	65699	1.00430	340
19 Benzo(b)fluoranthene	252	12.729	12.730	(0.958)	50003	1.26709	420
20 Benzo(k)fluoranthene	252	12.758	12.765	(0.961)	19200	0.46468	160
21 Benzo(a)pyrene	252	13.181	13.188	(0.992)	24222	0.62025	210
23 Indeno(1,2,3-cd)pyrene	276	14.885	14.898	(1.121)	11426	0.27417	92(M)
24 Dibenzo(a,h)anthracene	278	14.909	14.927	(1.123)	4169	0.10832	36
25 Benzo(g,h,i)perylene	276	15.338	15.356	(1.155)	12250	0.30829	100

QC Flag Legend

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

Data File: 1DC12014.D

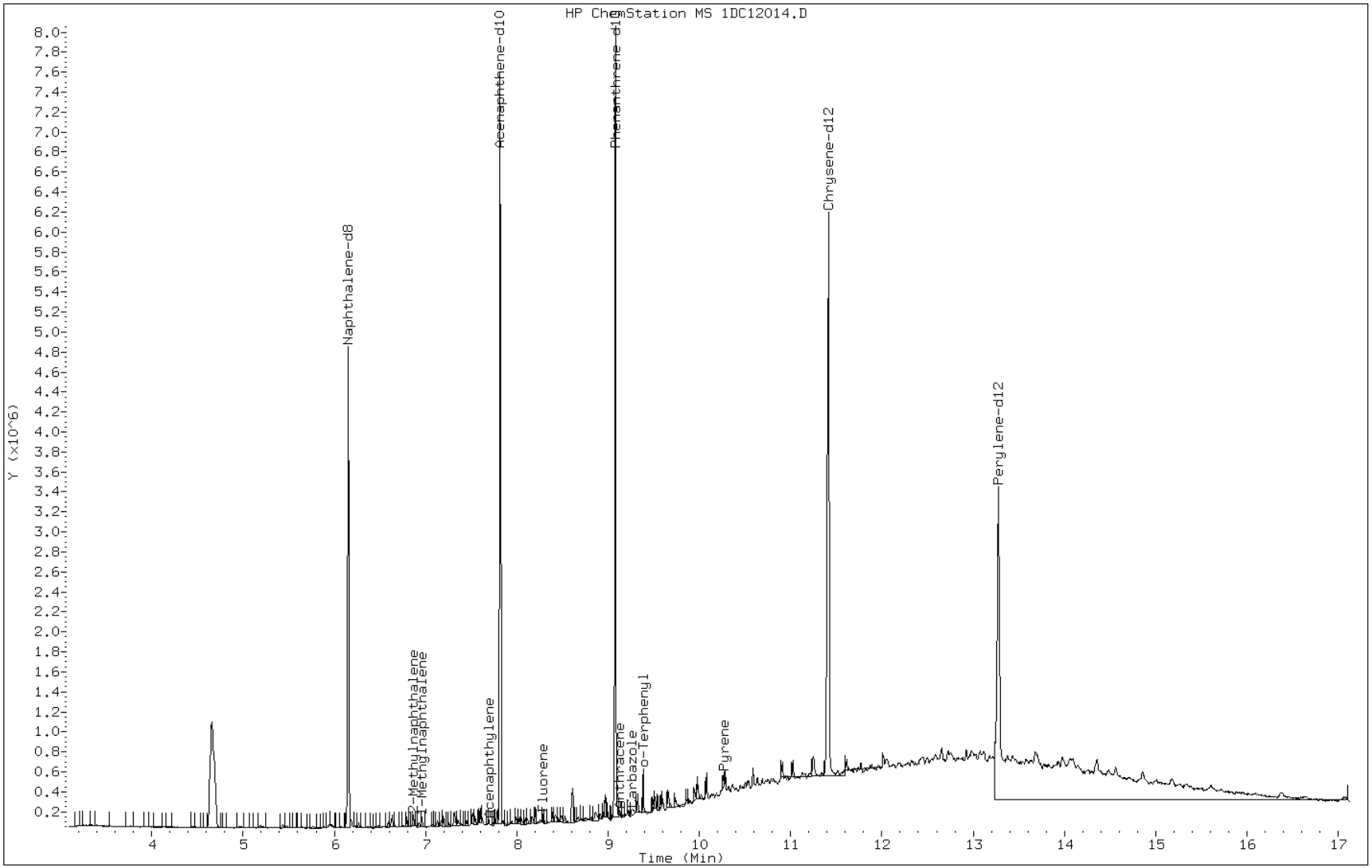
Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A

Operator: SCC



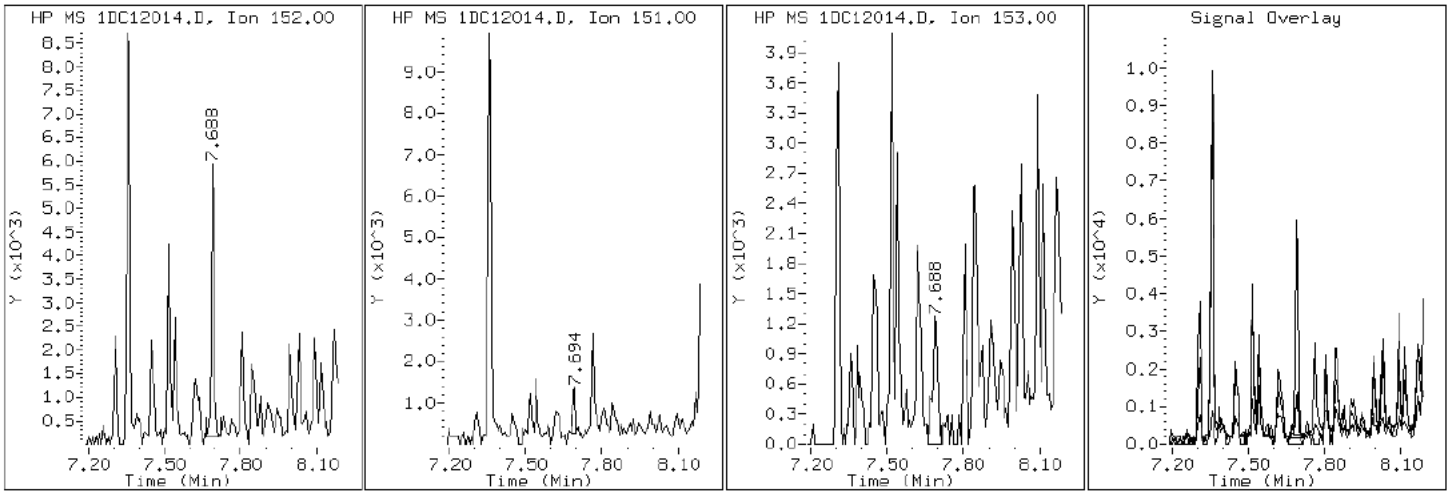
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

5 Acenaphthylene



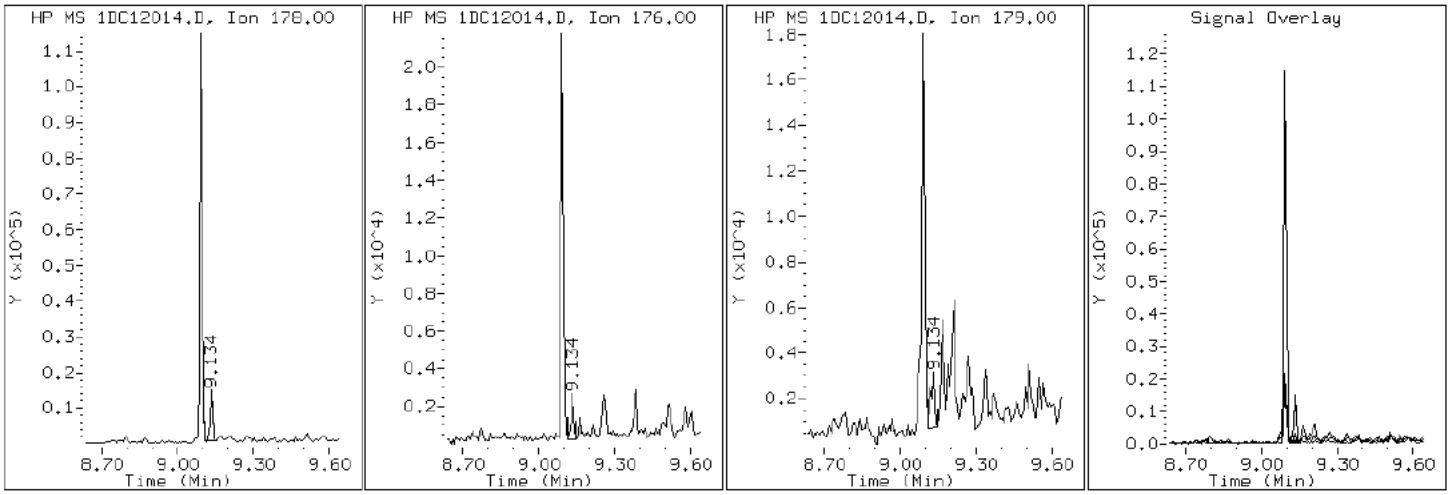
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

11 Anthracene



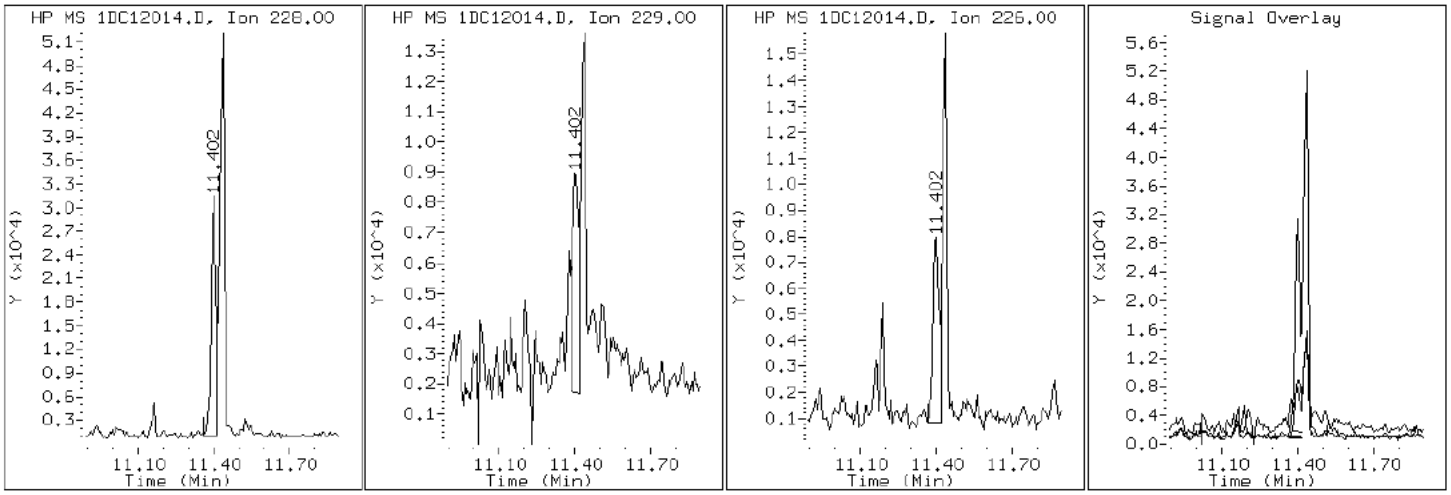
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

16 Benzo(a)anthracene



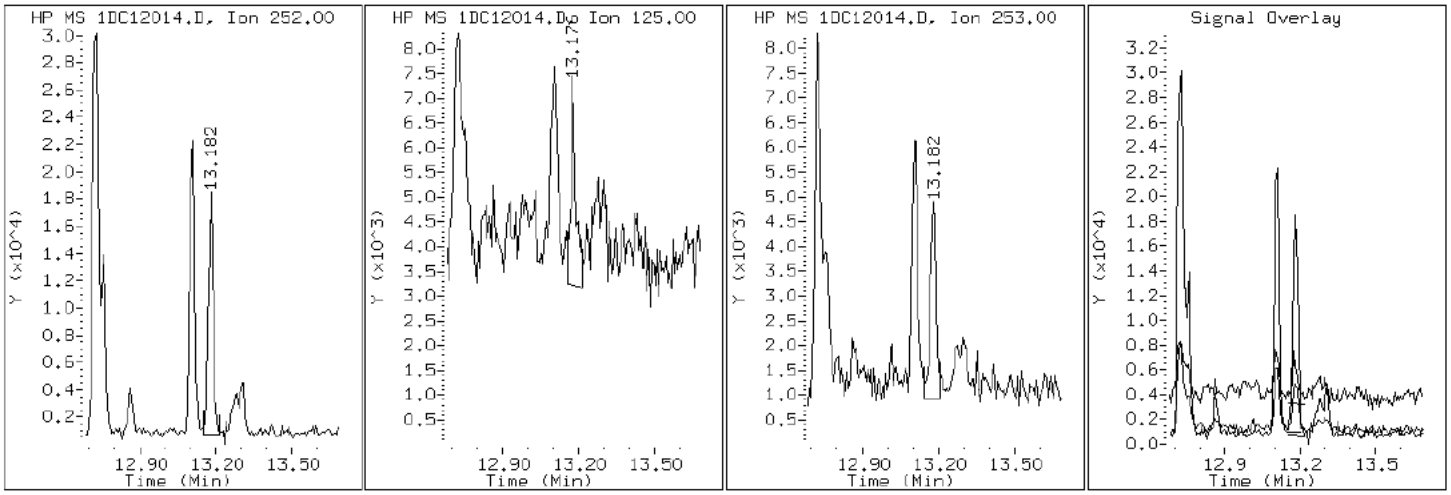
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

21 Benzo(a)pyrene



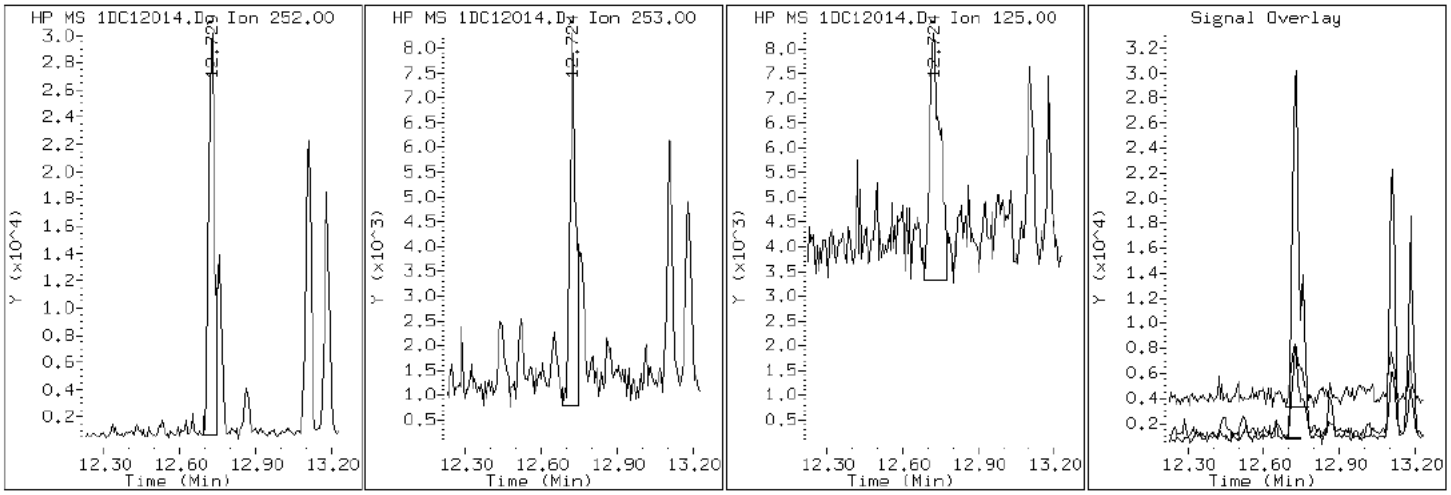
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

19 Benzo(b)fluoranthene



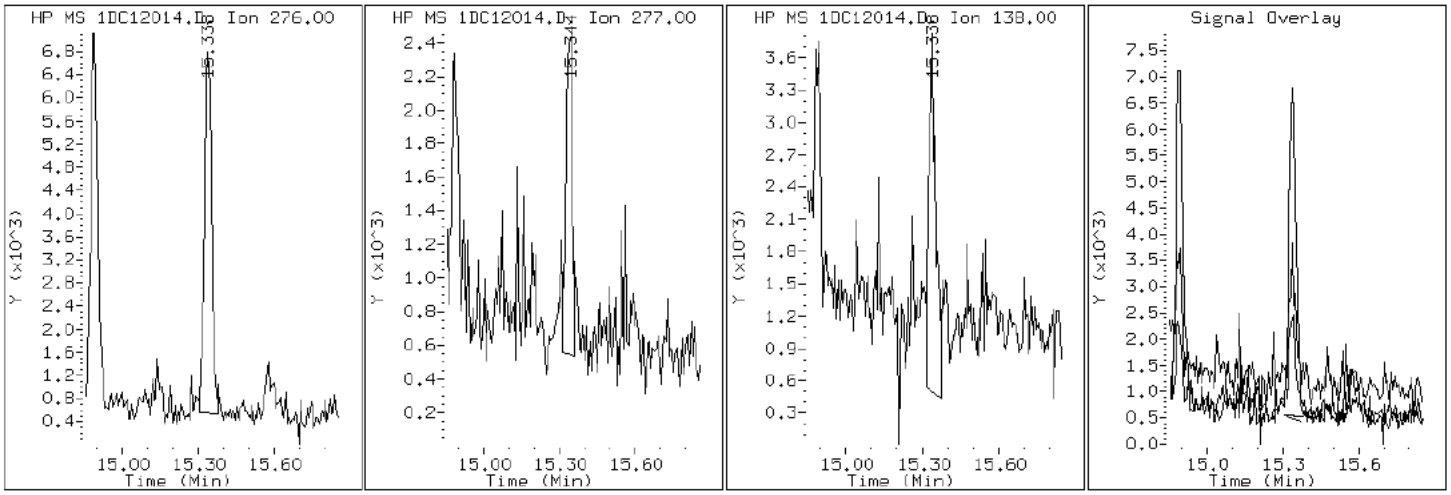
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

25 Benzo(g,h,i)perylene



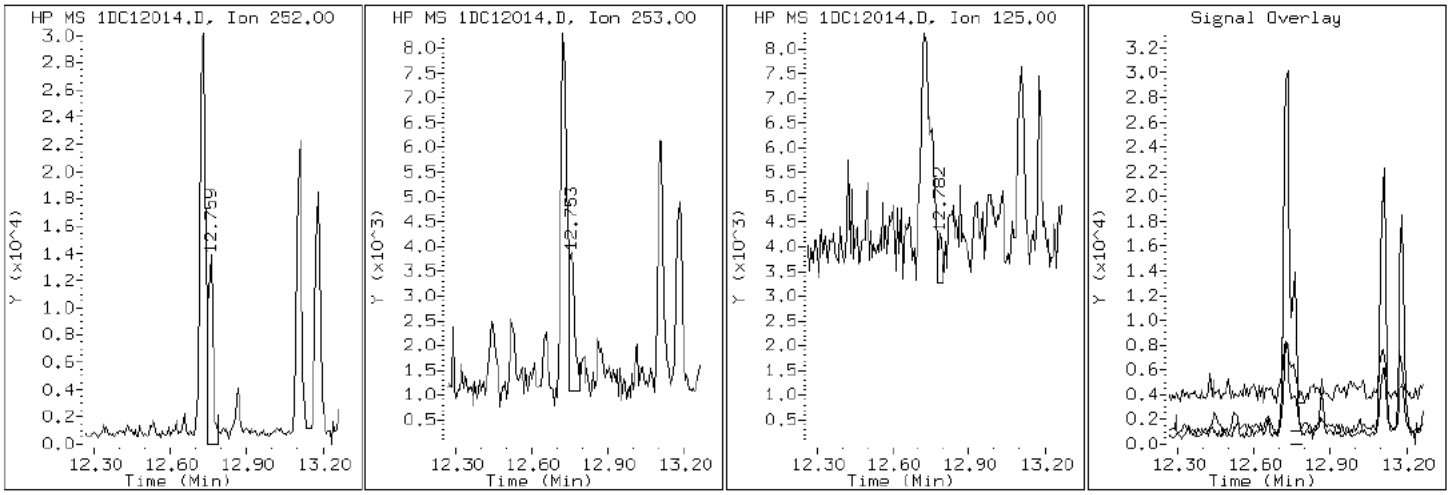
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

20 Benzo(k)fluoranthene



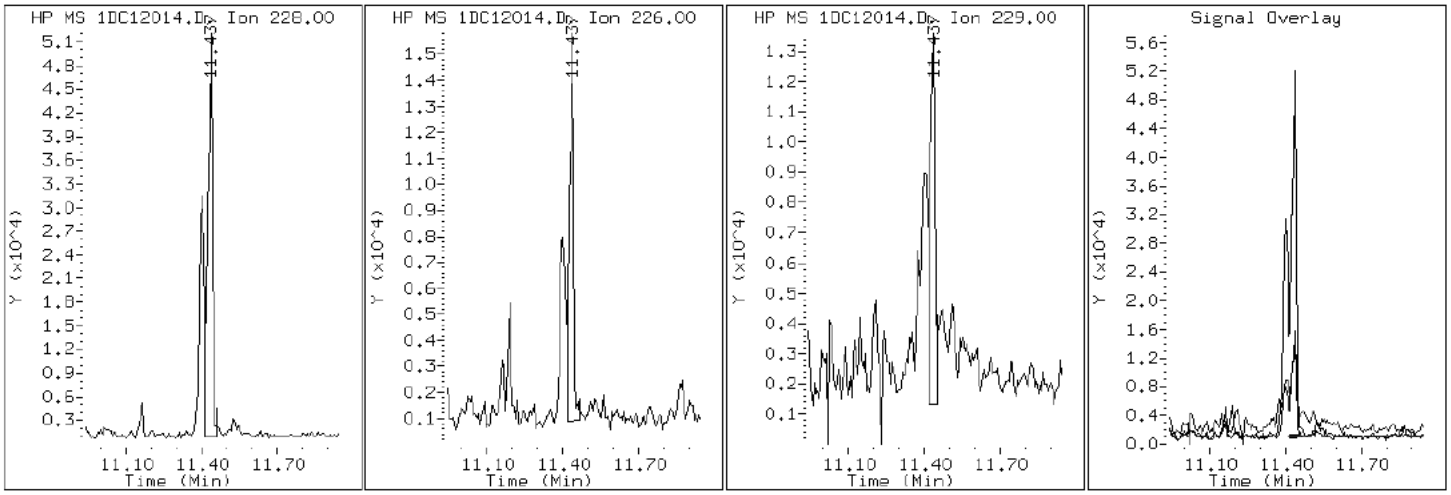
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

18 Chrysene



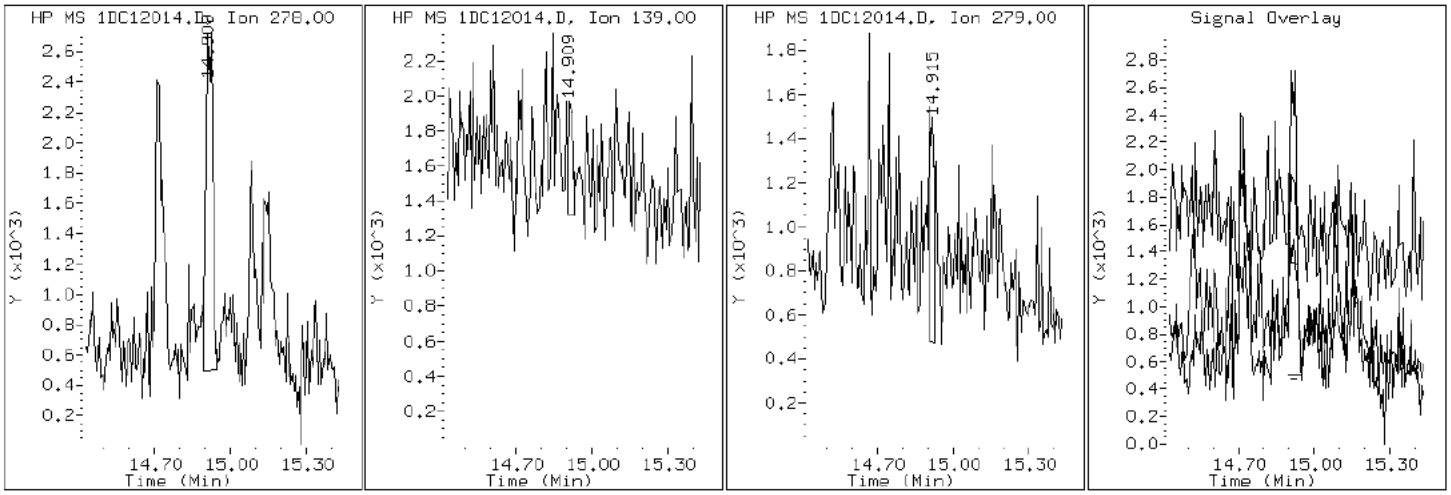
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

24 Dibenzo(a,h)anthracene



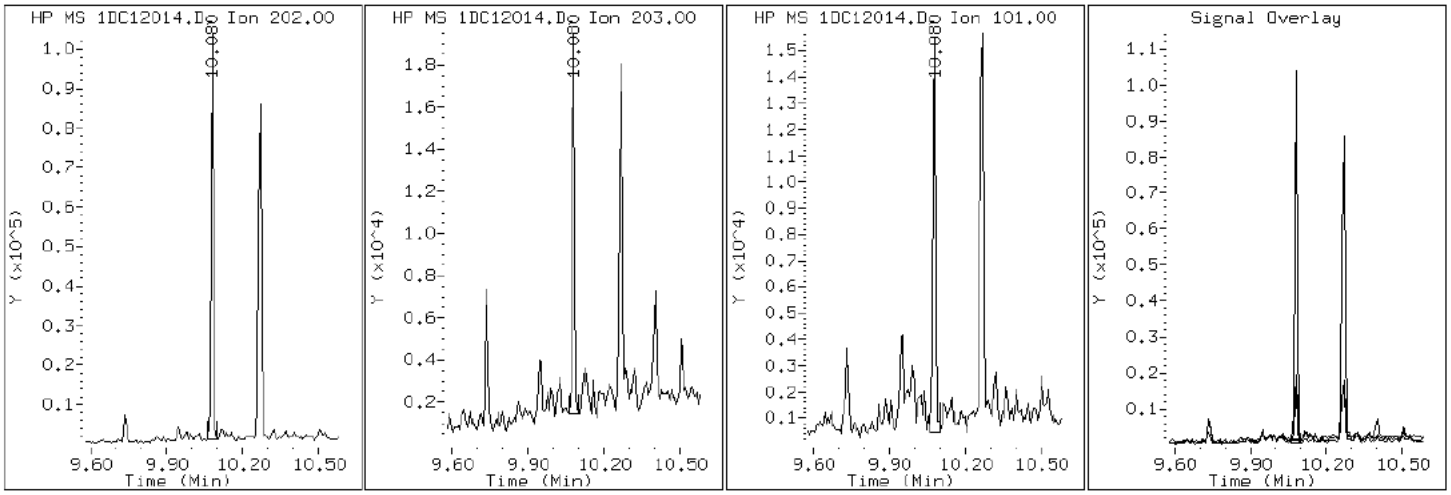
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

14 Fluoranthene



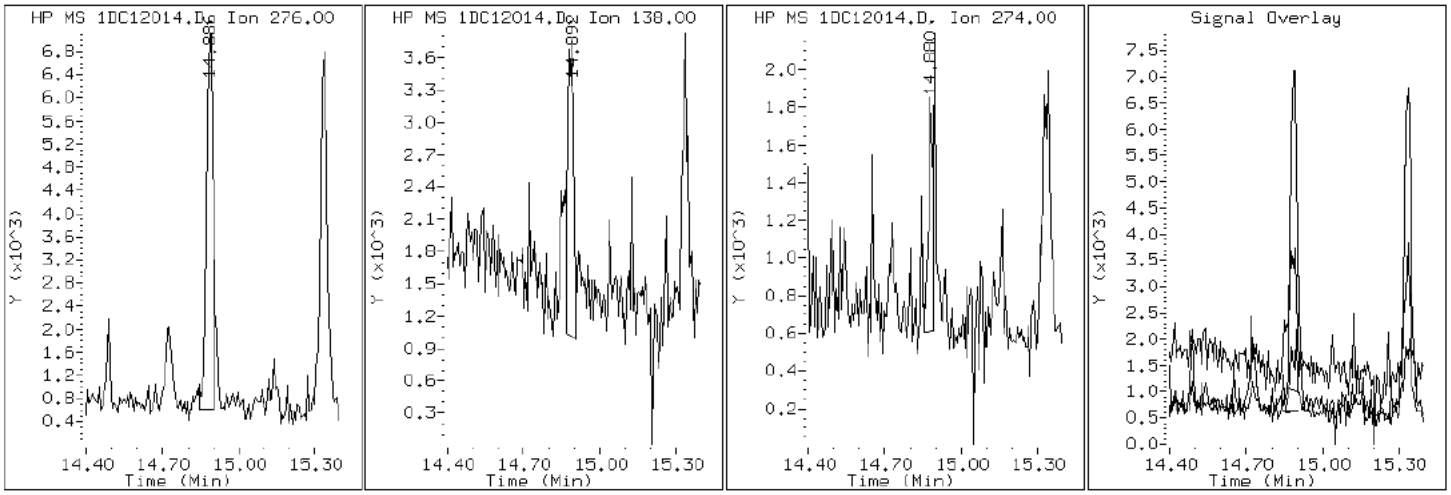
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

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



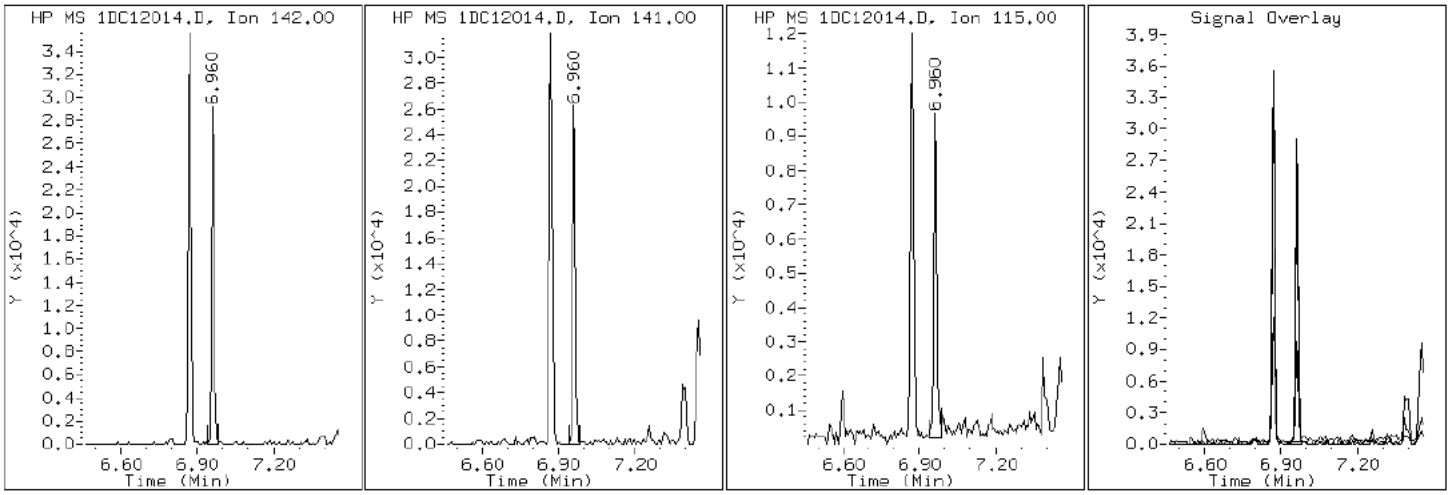
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

4 1-Methylnaphthalene



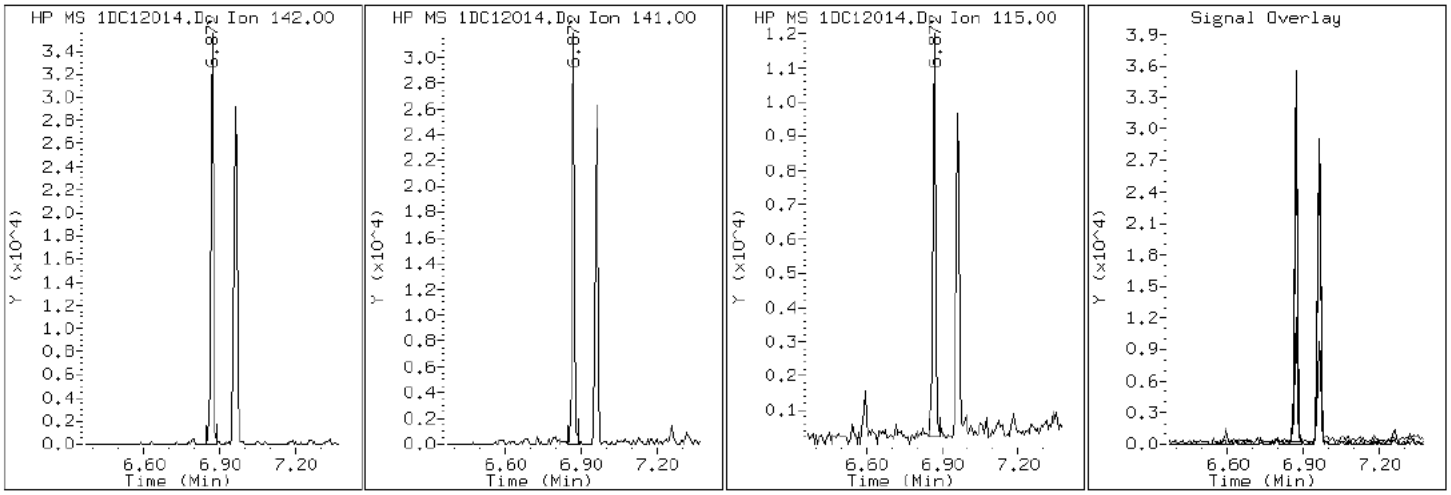
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

3 2-Methylnaphthalene



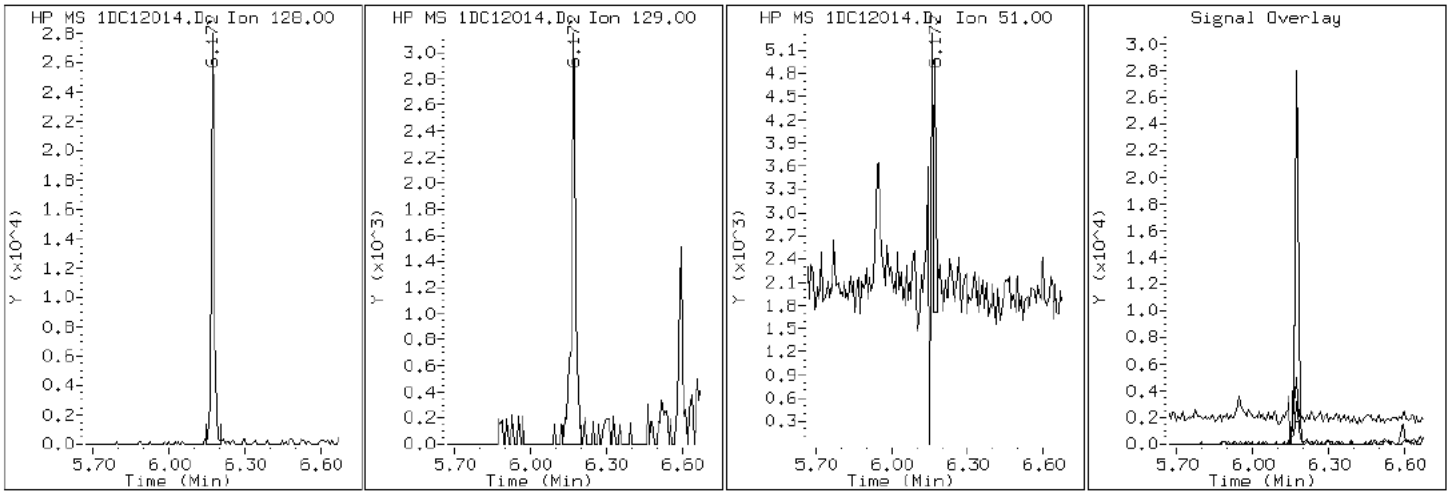
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

2 Naphthalene



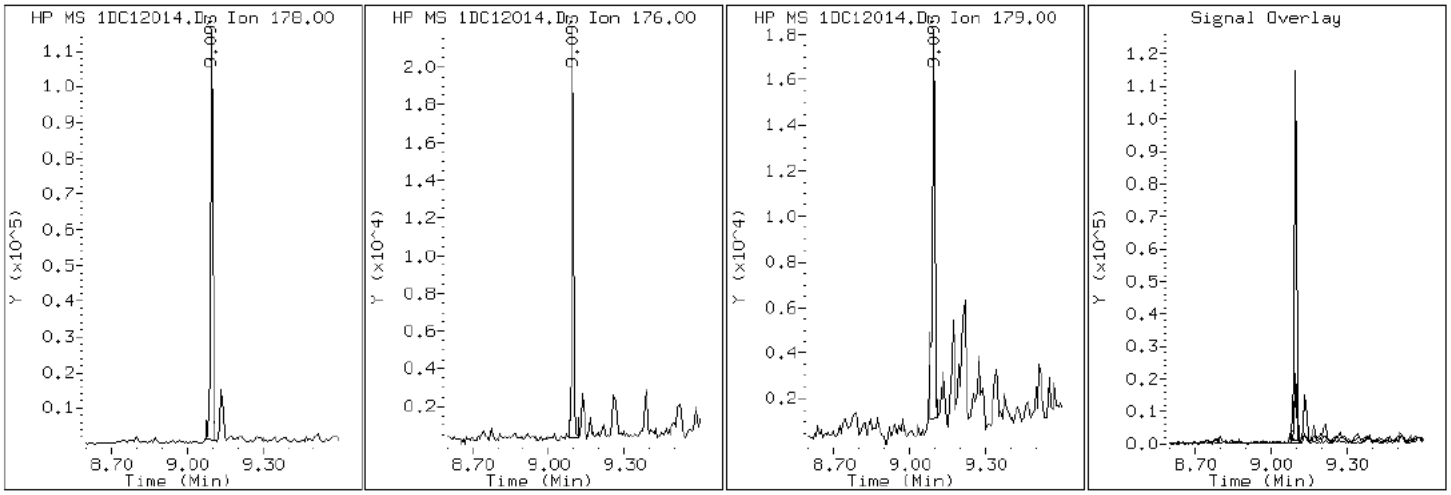
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

10 Phenanthrene



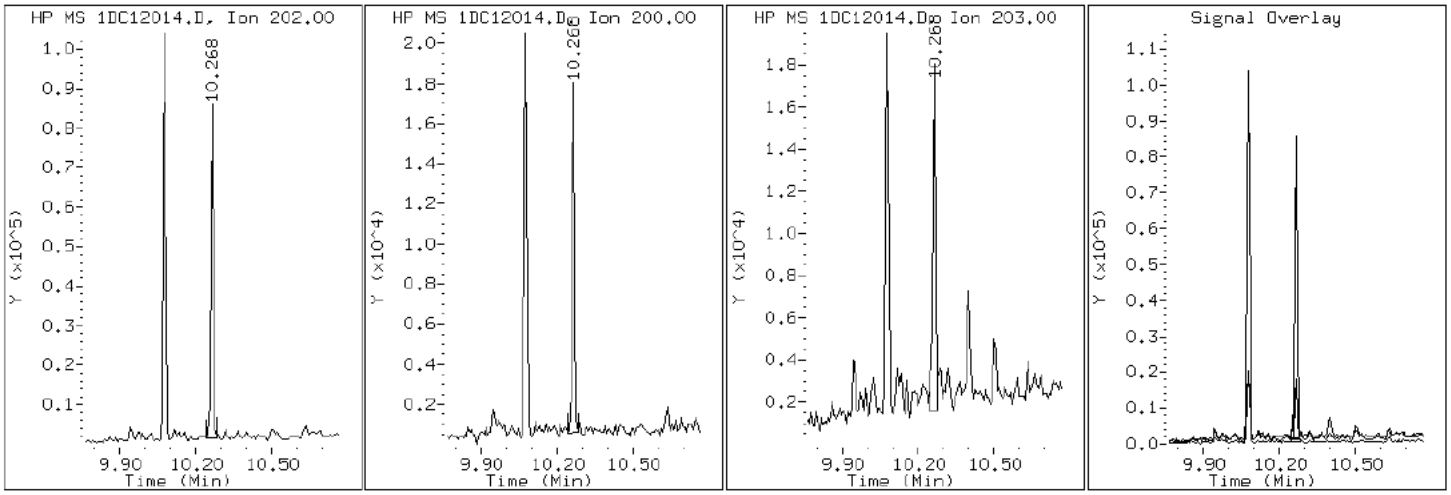
Data File: 1DC12014.D

Date: 12-MAR-2013 14:41

Client ID: CV0793A-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-3-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12014.D
Inj. Date and Time: 12-MAR-2013 14:41
Instrument ID: BSMSD.i
Client ID: CV0793A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

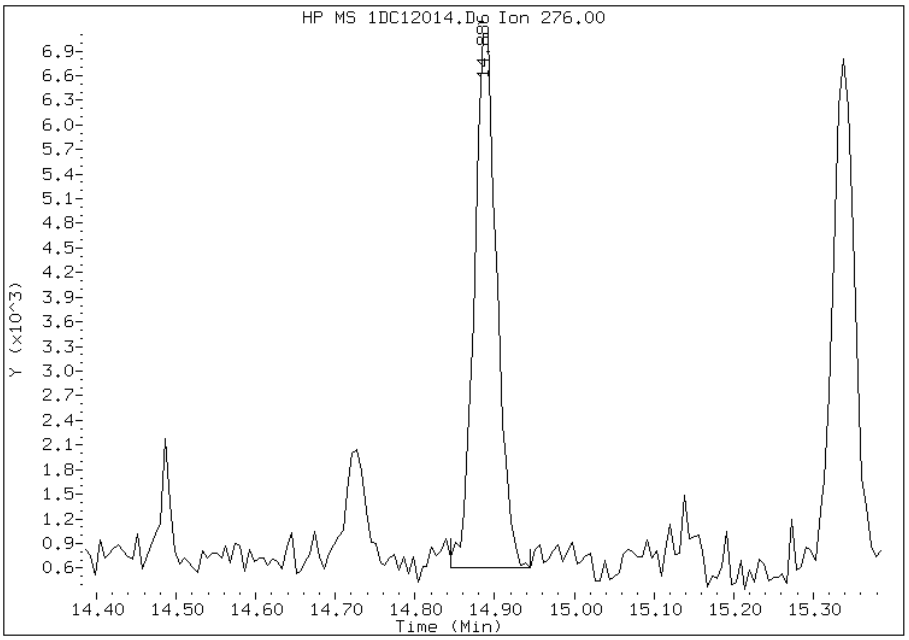
Processing Integration Results

RT: 14.89

Response: 12818

Amount: 0

Conc: 103



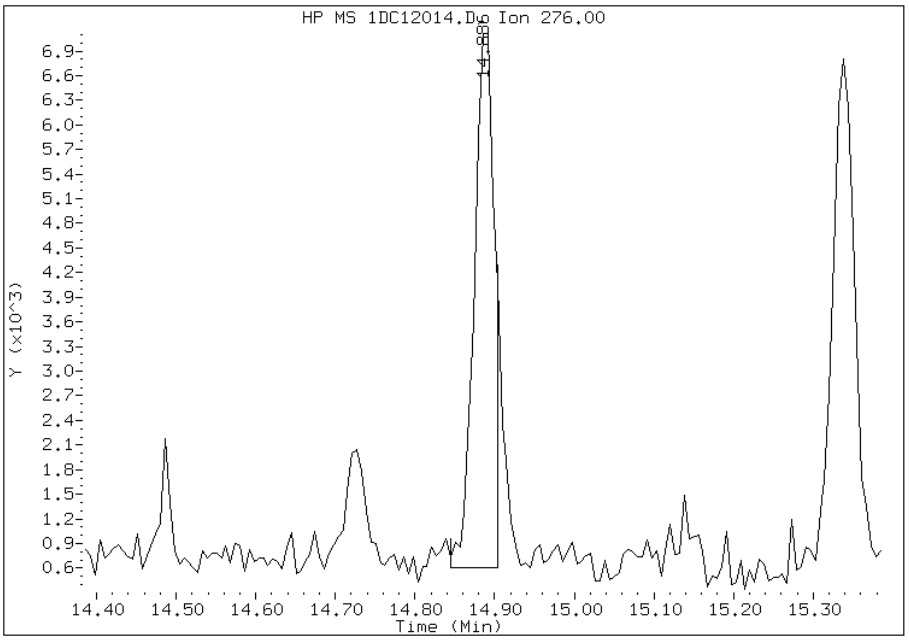
Manual Integration Results

RT: 14.89

Response: 11426

Amount: 0

Conc: 92



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 11:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0793B-CS-SP | Lab Sample ID: 680-88065-4

Matrix: Solid | Lab File ID: 1DC12015.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 10:43

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.96(g) | Date Analyzed: 03/12/2013 15:04

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

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

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

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	48	J	130	25
208-96-8	Acenaphthylene	26	J	50	6.3
120-12-7	Anthracene	110		11	5.3
56-55-3	Benzo[a]anthracene	1800		10	4.9
50-32-8	Benzo[a]pyrene	2600		13	6.5
191-24-2	Benzo[g,h,i]perylene	1500		25	5.5
207-08-9	Benzo[k]fluoranthene	2000		10	4.5
218-01-9	Chrysene	2300		11	5.7
53-70-3	Dibenz(a,h)anthracene	540		25	5.2
206-44-0	Fluoranthene	1800		25	5.0
86-73-7	Fluorene	35		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	1400		25	8.9
90-12-0	1-Methylnaphthalene	330		50	5.5
91-57-6	2-Methylnaphthalene	390		50	8.9
91-20-3	Naphthalene	270		50	5.5
85-01-8	Phenanthrene	720		10	4.9
129-00-0	Pyrene	1900		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12015.D
Lab Smp Id: 680-88065-A-4-A Client Smp ID: CV0793B-CS-SP
Inj Date : 12-MAR-2013 15:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-4-A
Misc Info : 680-88065-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	25.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.150	6.149	(1.000)	2247666	40.0000	
* 6 Acenaphthene-d10	164	7.818	7.818	(1.000)	1400360	40.0000	
* 9 Phenanthrene-d10	188	9.081	9.075	(1.000)	2439006	40.0000	
$ 13 o-Terphenyl	230	9.387	9.386	(1.034)	274193	7.26978	650
* 17 Chrysene-d12	240	11.420	11.414	(1.000)	2128494	40.0000	
* 22 Perylene-d12	264	13.282	13.282	(1.000)	1342090	40.0000	
2 Naphthalene	128	6.173	6.173	(1.004)	193747	3.22232	290
3 2-Methylnaphthalene	142	6.872	6.872	(1.118)	176753	4.61482	410
4 1-Methylnaphthalene	142	6.960	6.960	(1.132)	141342	3.94079	350
5 Acenaphthylene	152	7.689	7.688	(0.983)	18871	0.30566	27
7 Acenaphthene	154	7.842	7.847	(1.003)	21436	0.56945	51
8 Fluorene	166	8.282	8.288	(1.059)	18293	0.41592	37
10 Phenanthrene	178	9.099	9.099	(1.002)	597217	8.62590	770
11 Anthracene	178	9.134	9.140	(1.006)	88959	1.28421	110

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.275	9.275	(1.021)	71774	1.15904	100
14 Fluoranthene	202	10.086	10.080	(1.111)	1572294	21.7612	1900
15 Pyrene	202	10.274	10.268	(0.900)	1492046	22.5986	2000
16 Benzo(a)anthracene	228	11.408	11.396	(0.999)	1260602	21.6325	1900
18 Chrysene	228	11.449	11.443	(1.003)	1656475	27.5339	2400
19 Benzo(b)fluoranthene	252	12.748	12.730	(0.960)	2295576	66.4515	5900(A)
20 Benzo(k)fluoranthene	252	12.777	12.765	(0.962)	853477	23.5963	2100
21 Benzo(a)pyrene	252	13.200	13.188	(0.994)	1045723	30.5899	2700
23 Indeno(1,2,3-cd)pyrene	276	14.910	14.898	(1.123)	590784	16.1939	1400(M)
24 Dibenzo(a,h)anthracene	278	14.933	14.927	(1.124)	215480	6.39560	570
25 Benzo(g,h,i)perylene	276	15.368	15.356	(1.157)	608023	17.4803	1600

QC Flag Legend

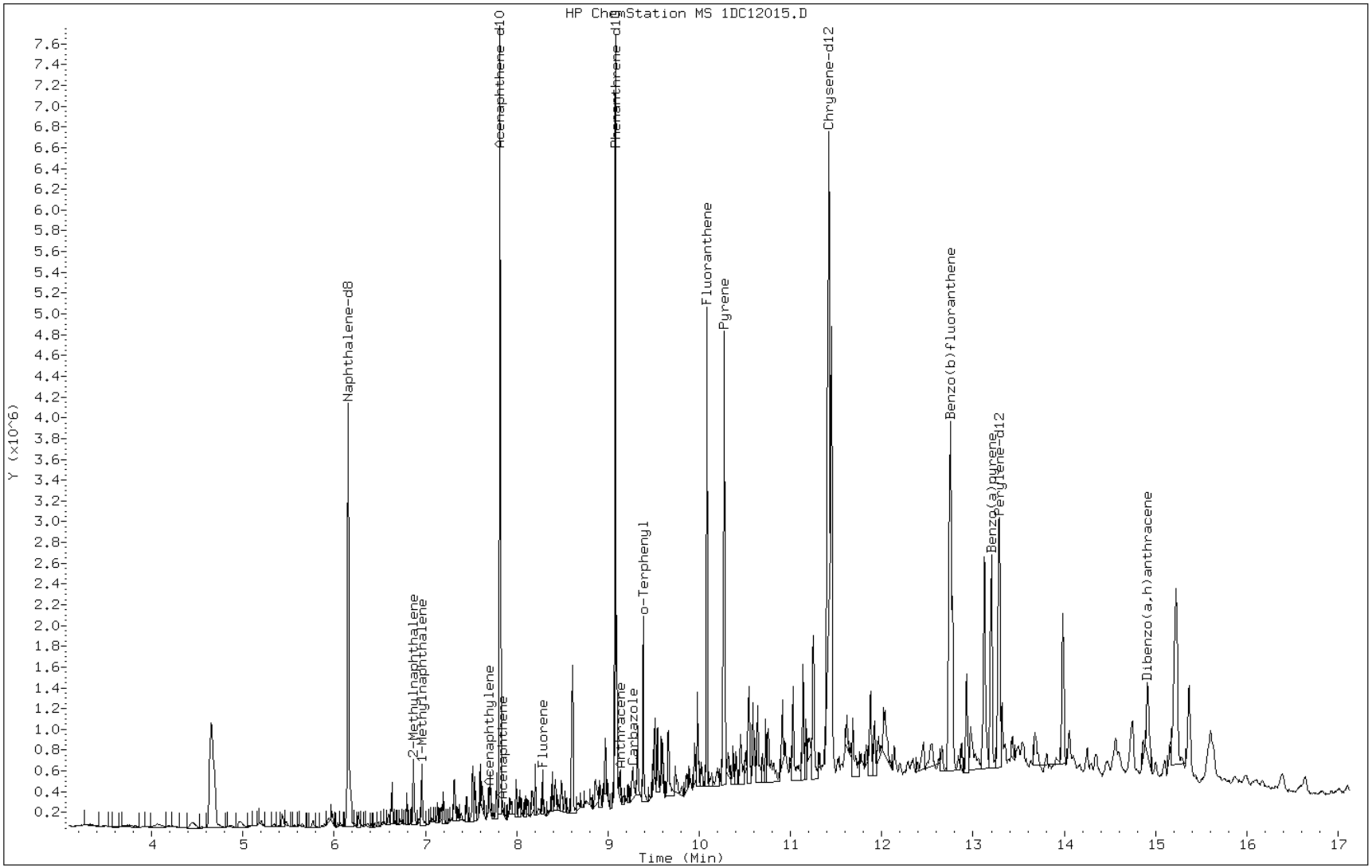
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC



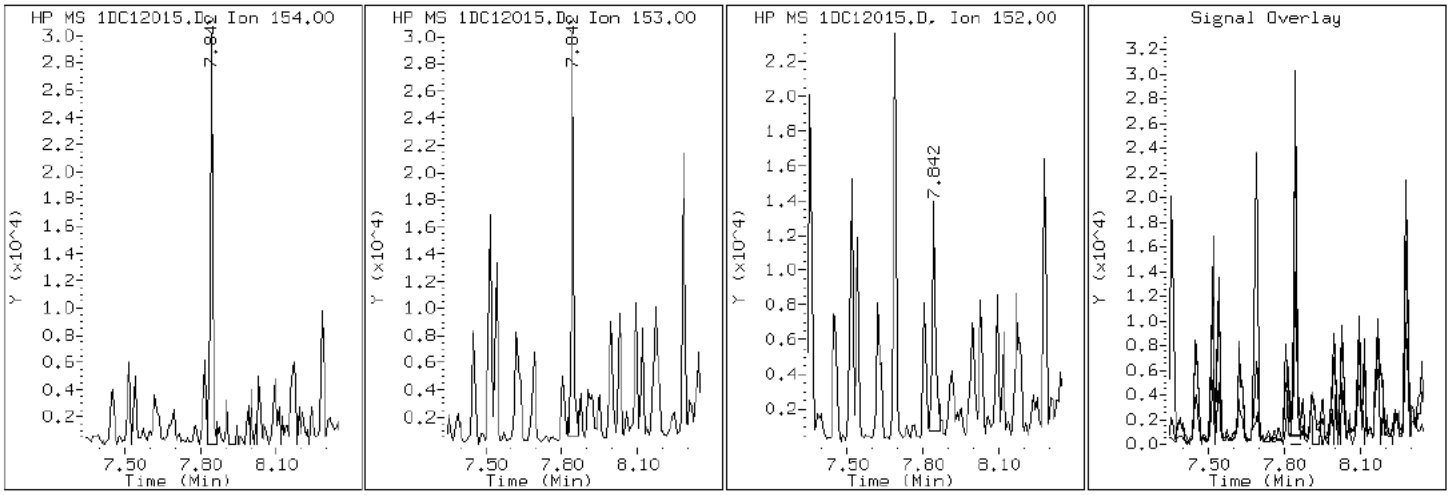
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

7 Acenaphthene



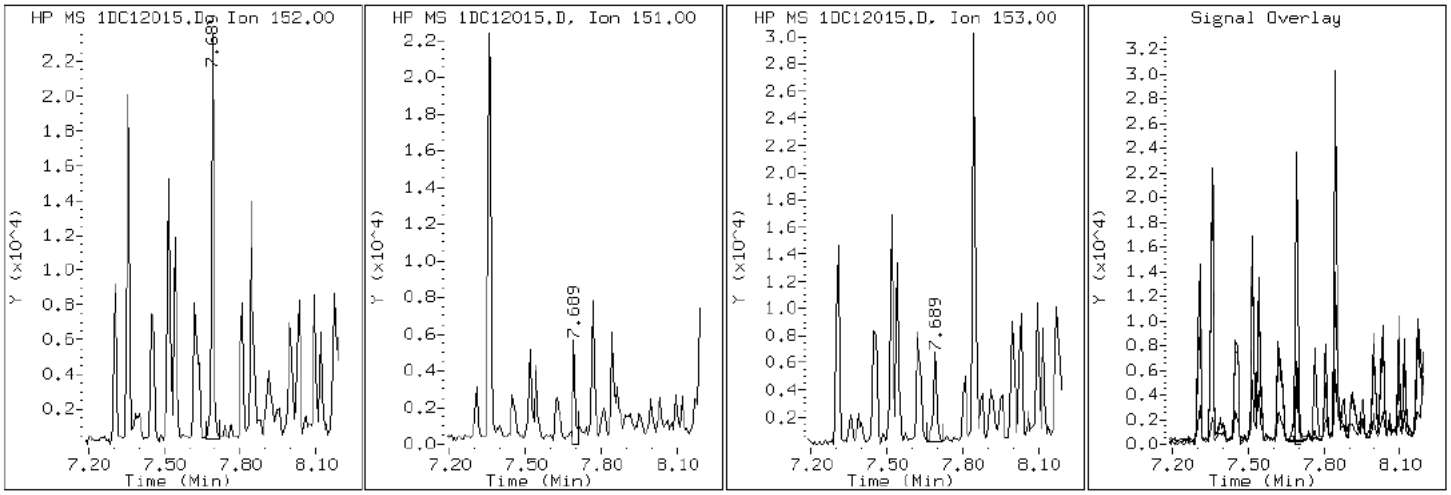
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

5 Acenaphthylene



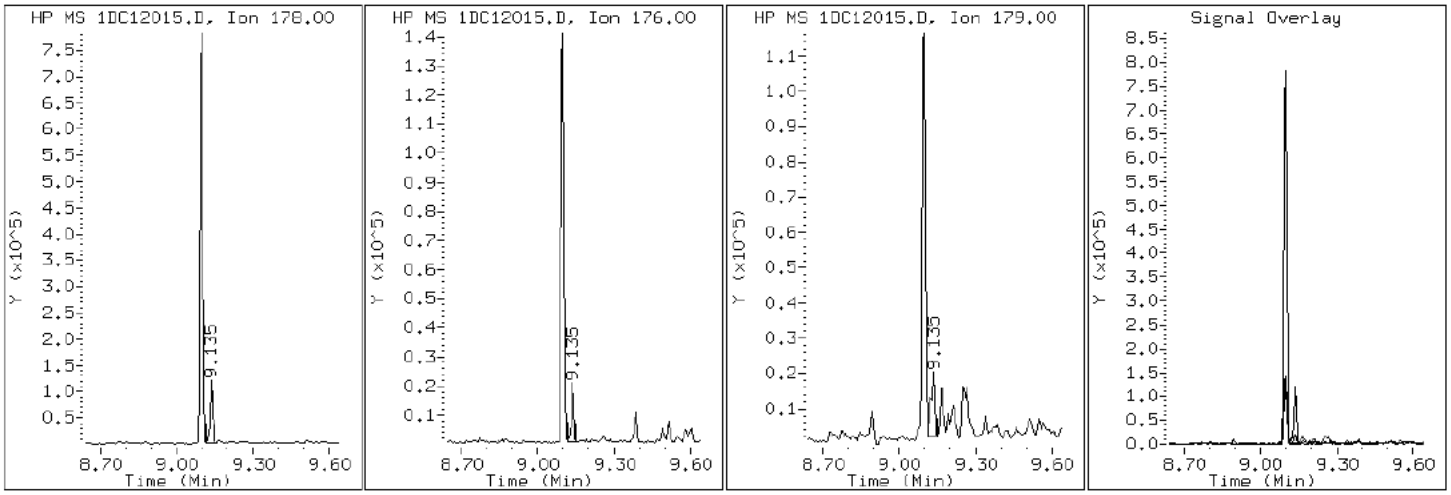
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

11 Anthracene



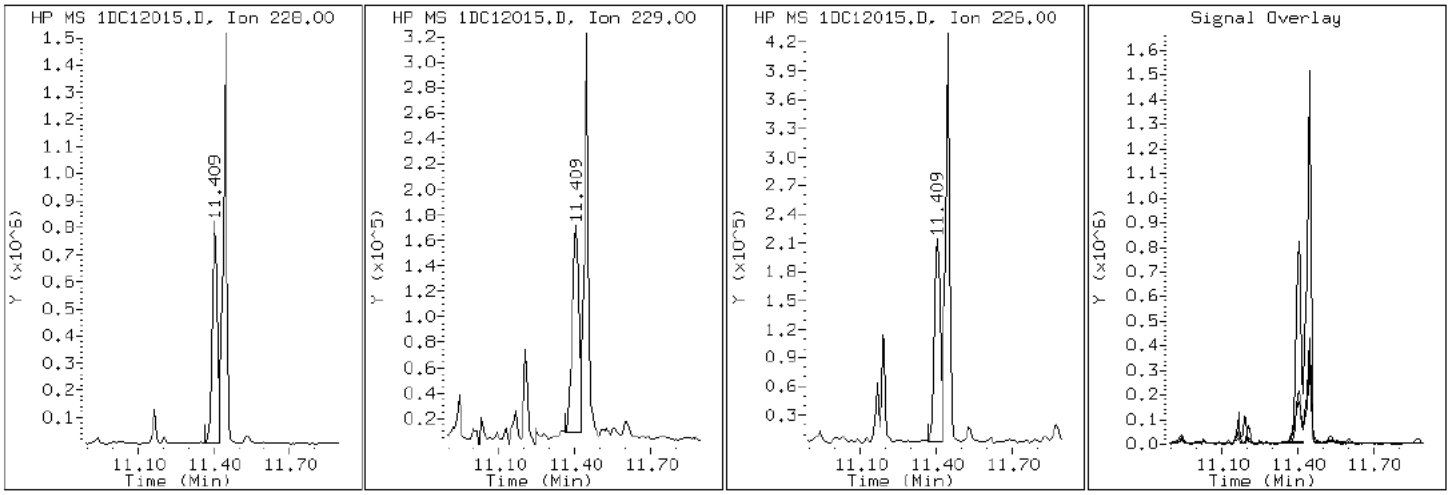
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

16 Benzo(a)anthracene



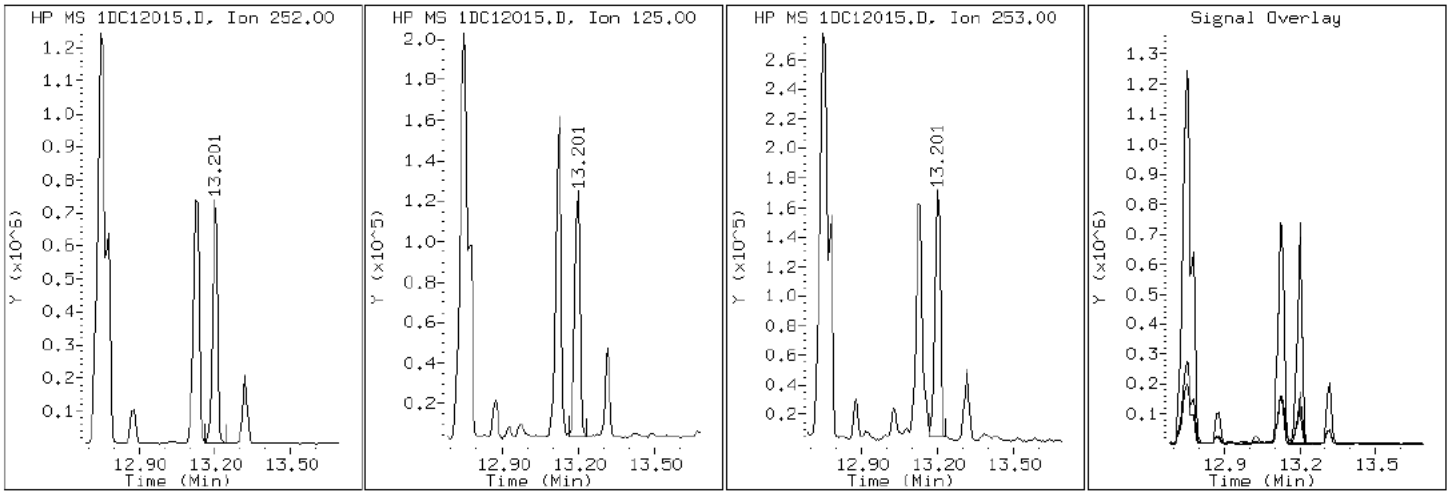
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

21 Benzo(a)pyrene



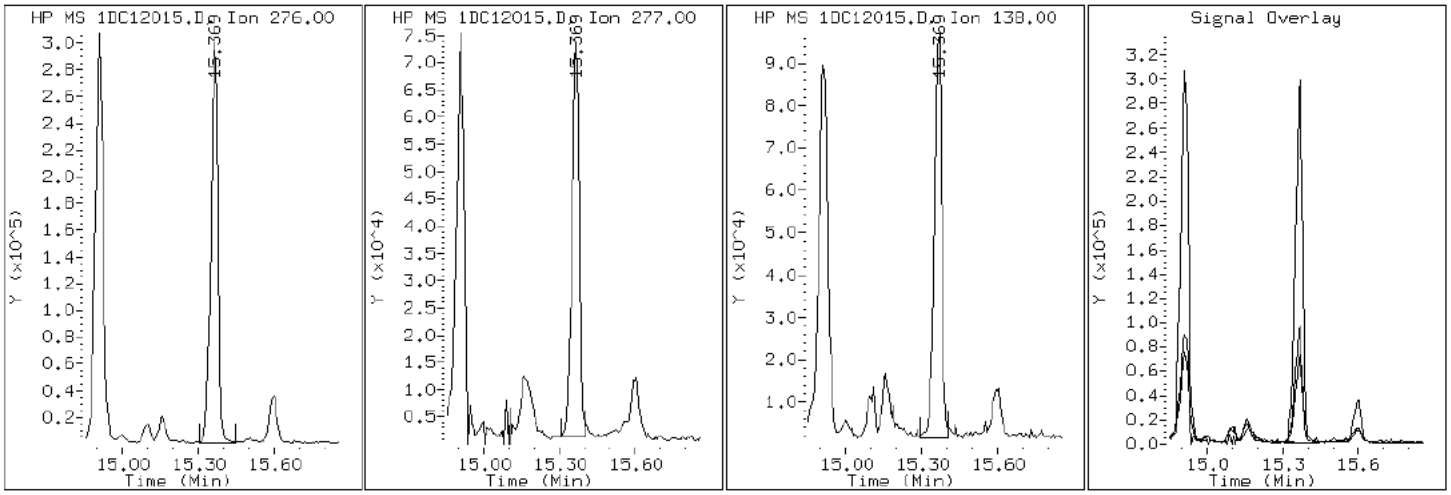
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

25 Benzo(g,h,i)perylene



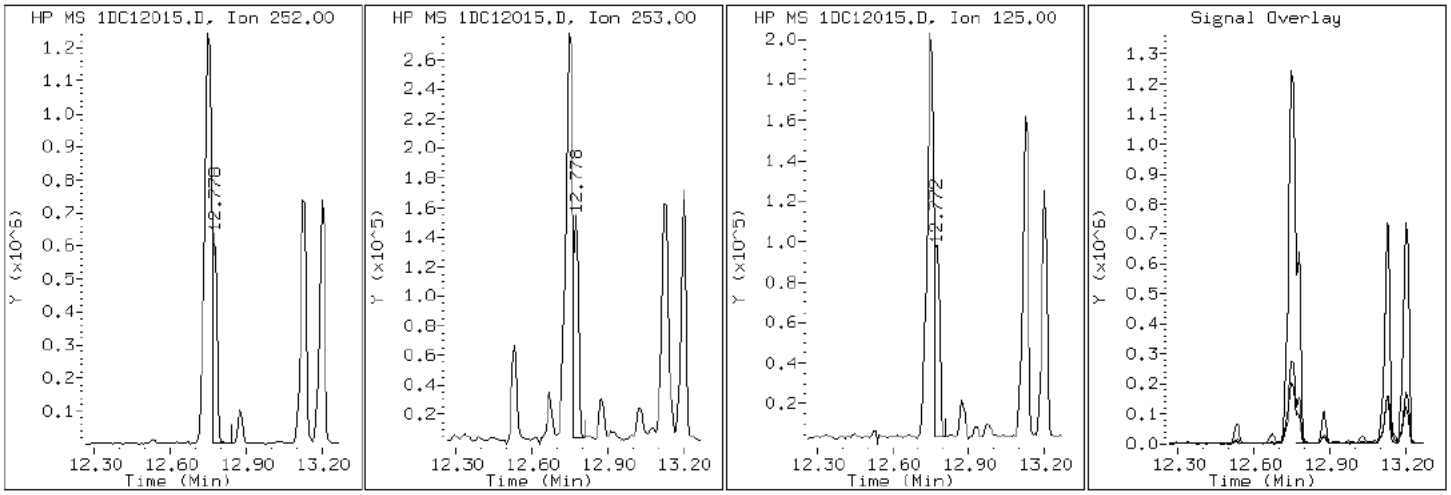
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

20 Benzo(k)fluoranthene



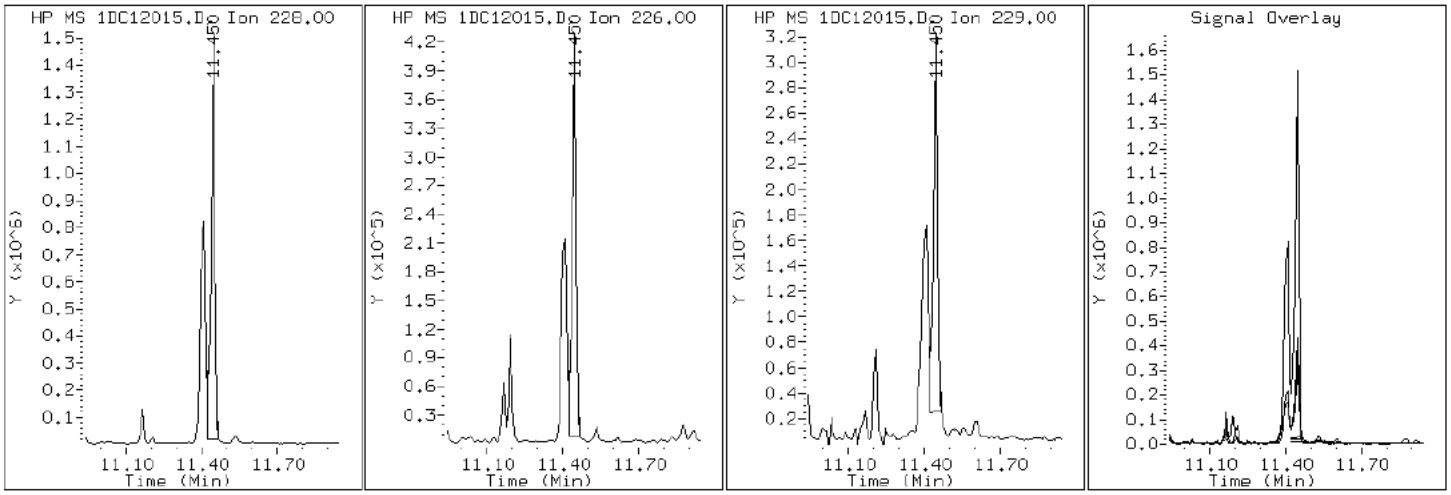
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

18 Chrysene



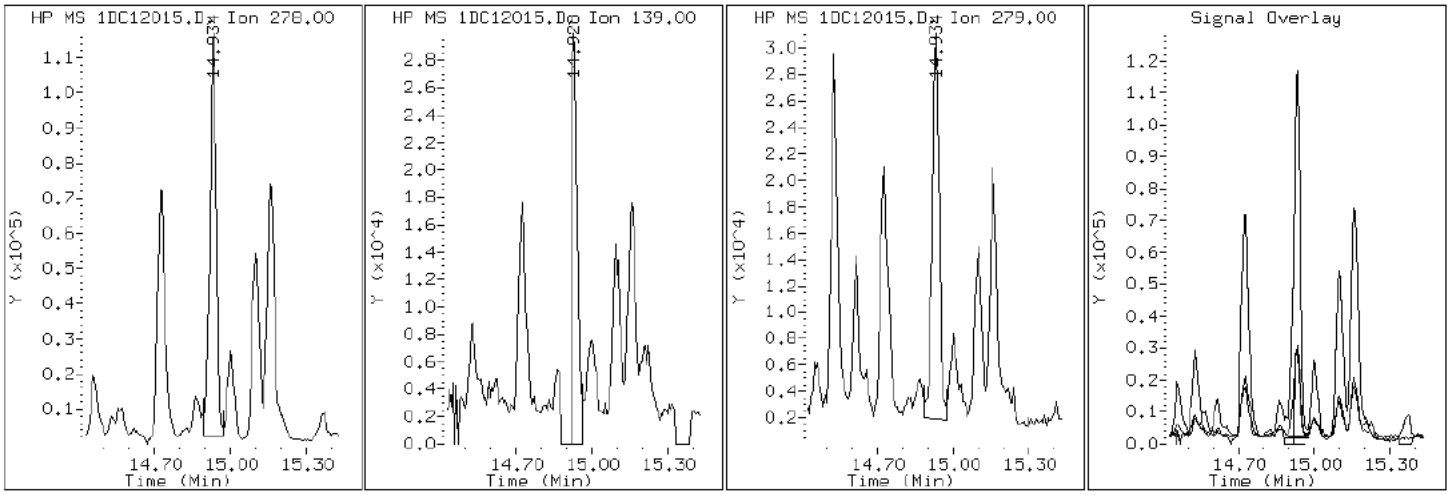
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

24 Dibenzo(a,h)anthracene



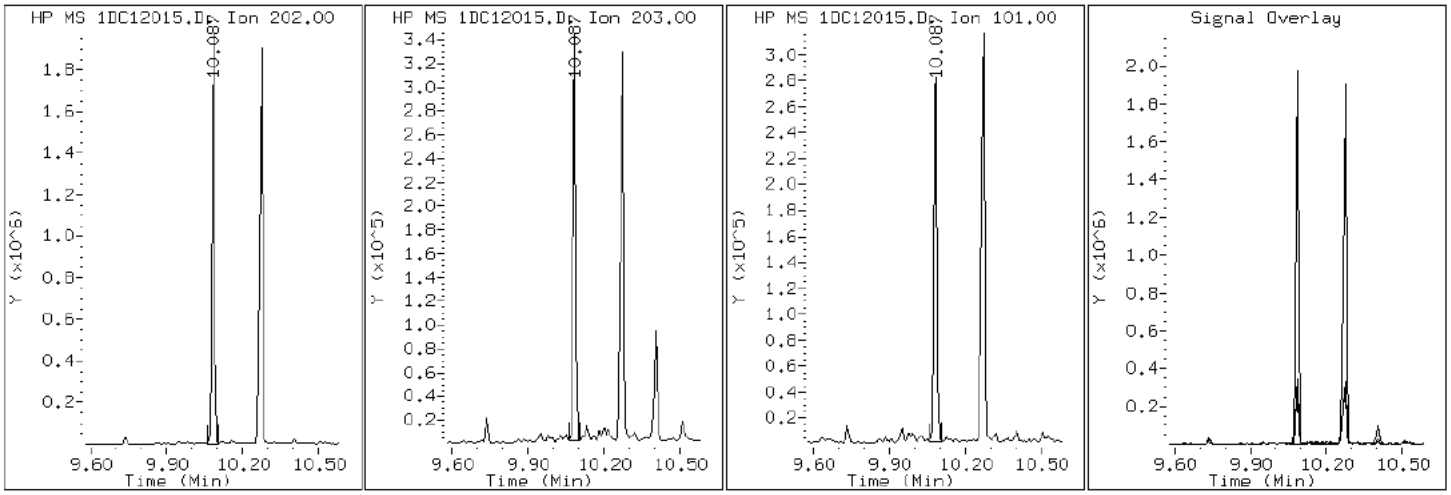
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

14 Fluoranthene



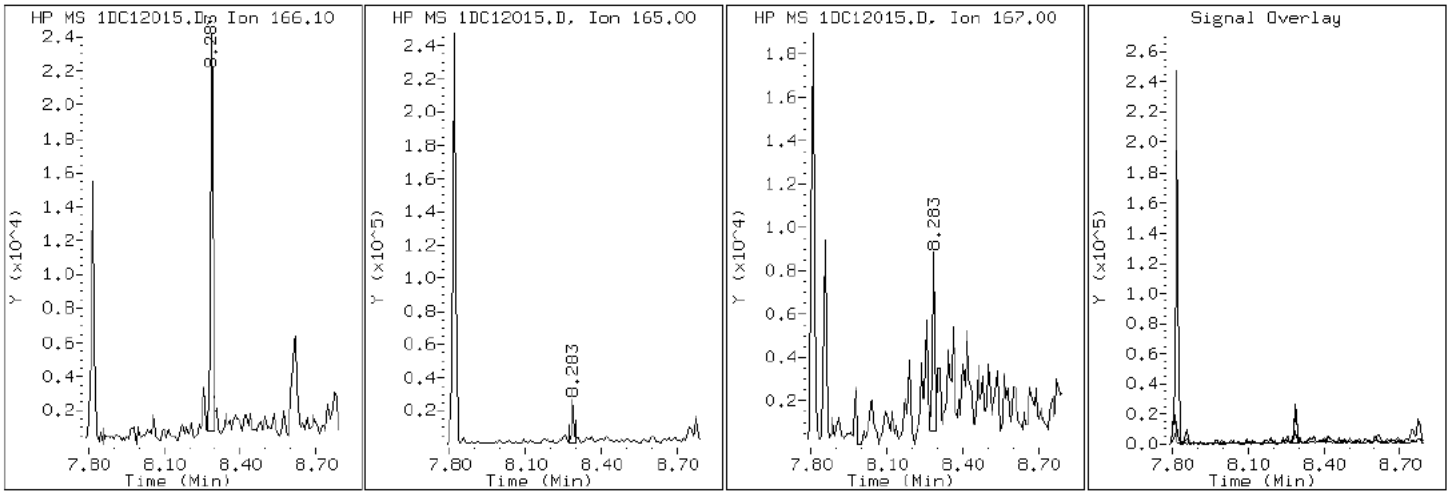
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

8 Fluorene



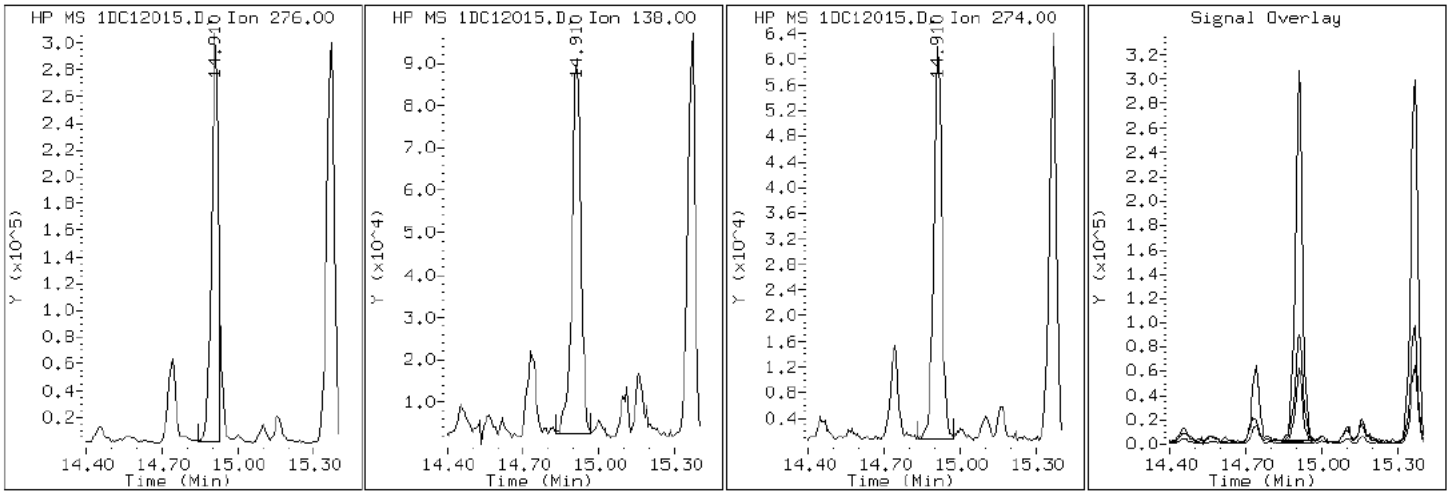
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

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



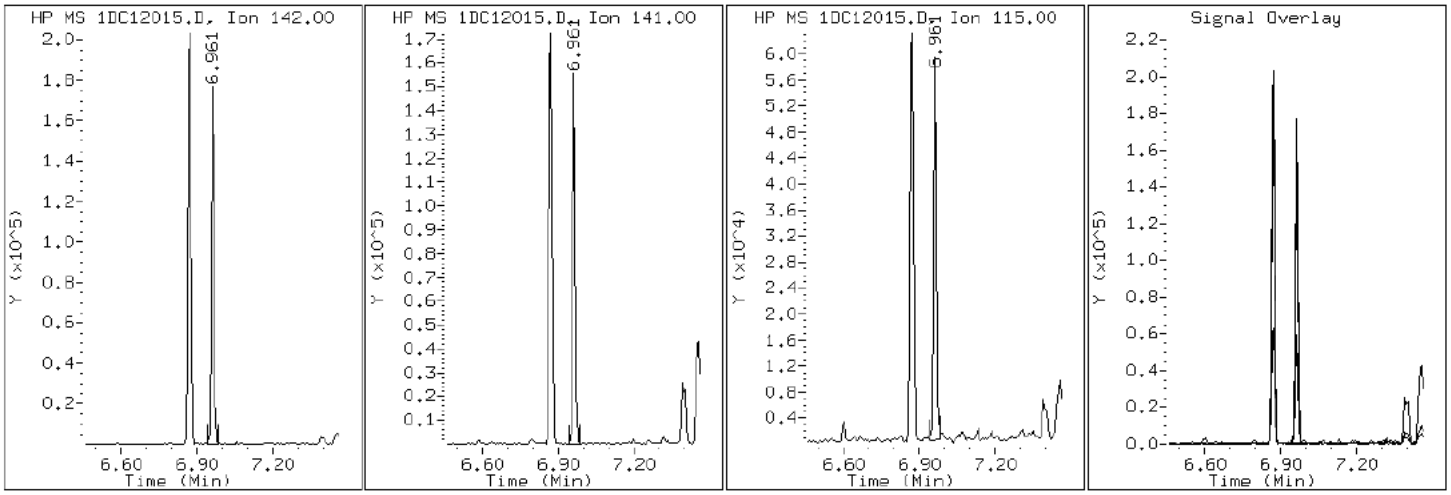
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

4 1-Methylnaphthalene



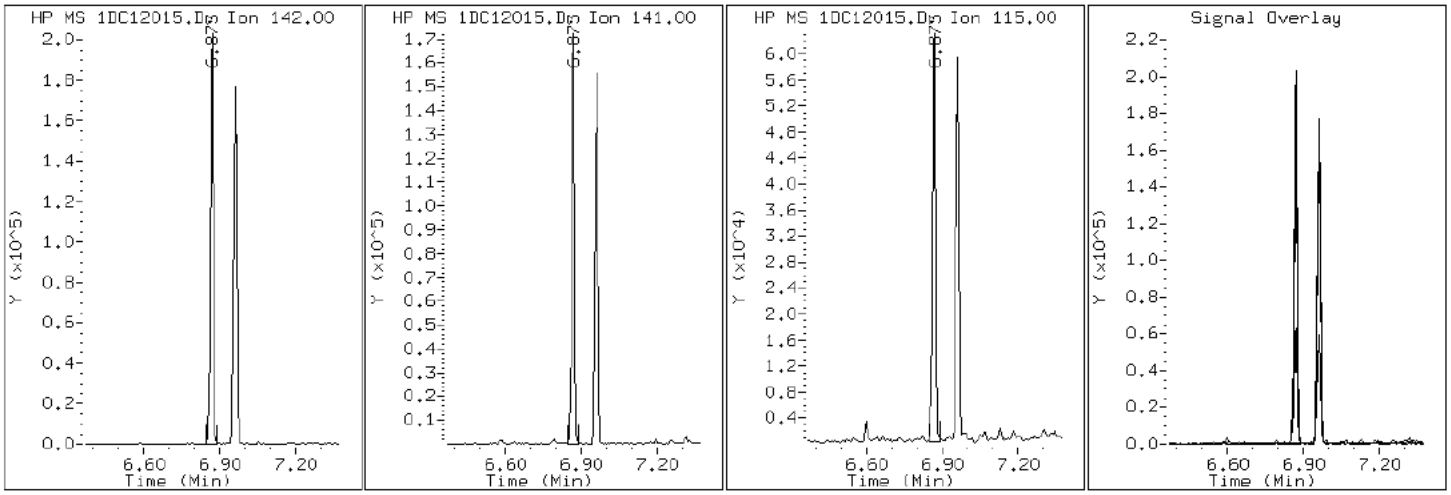
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

3 2-Methylnaphthalene



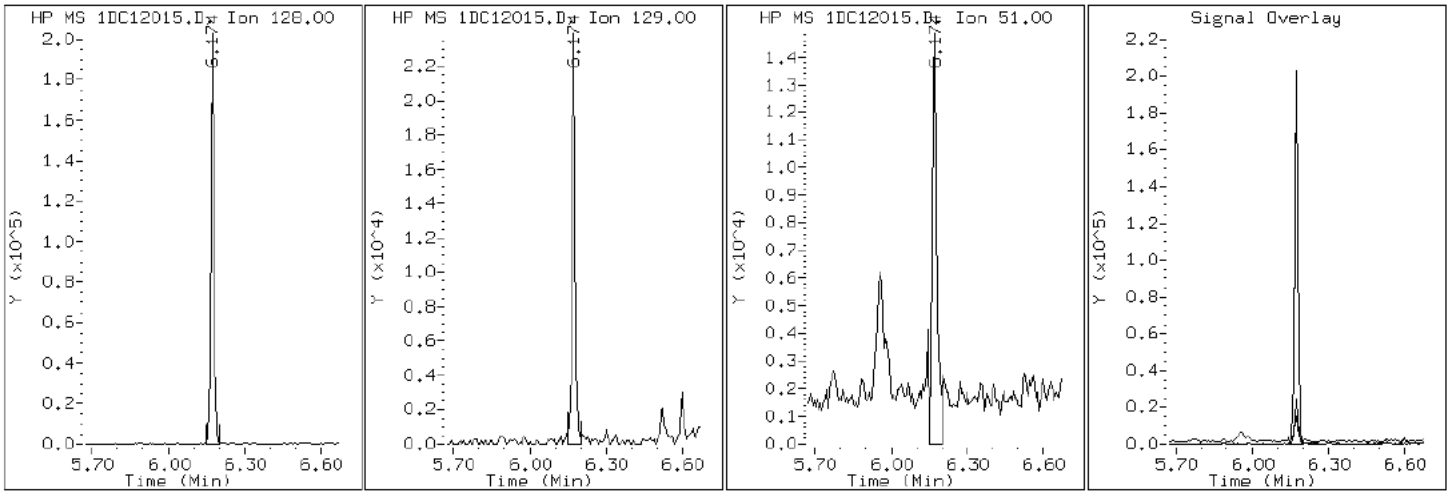
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

2 Naphthalene



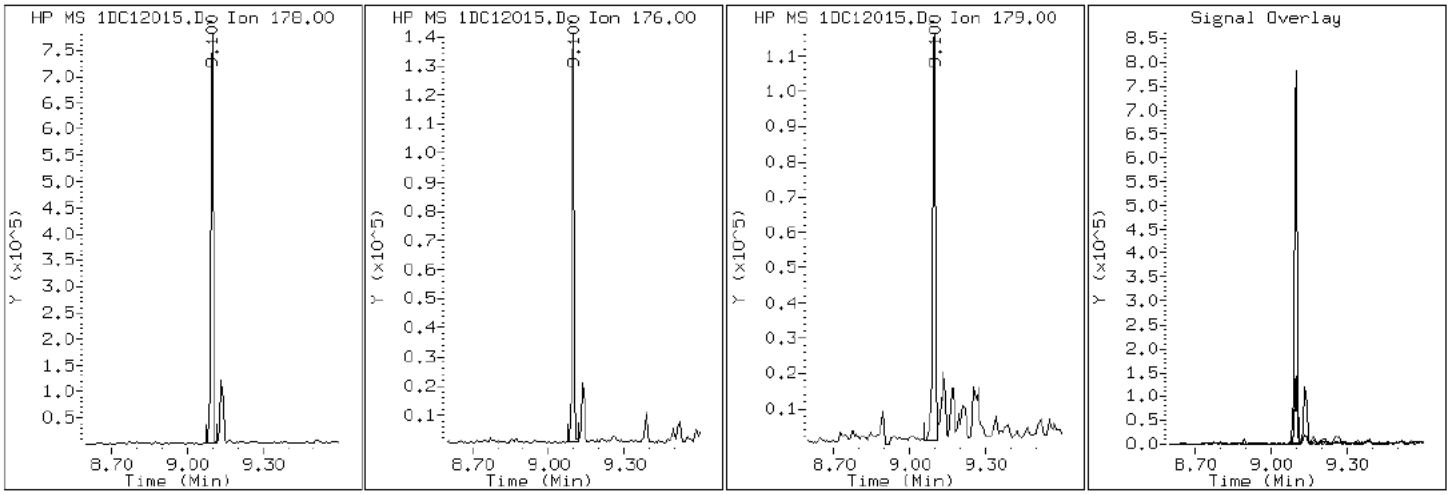
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

10 Phenanthrene



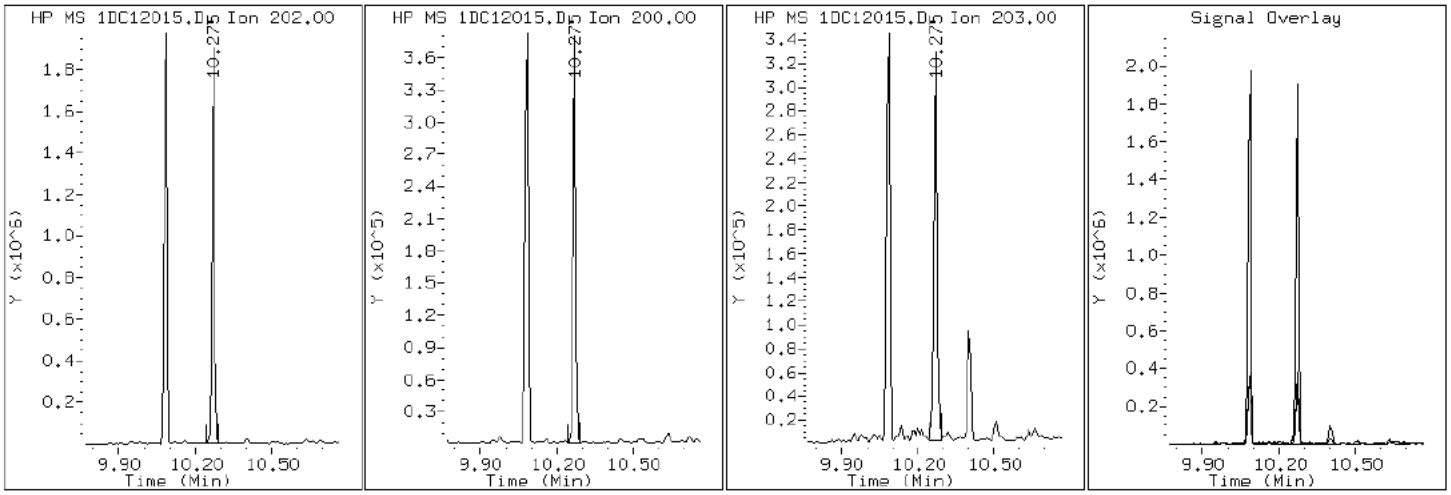
Data File: 1DC12015.D

Date: 12-MAR-2013 15:04

Client ID: CV0793B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-4-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12015.D
Inj. Date and Time: 12-MAR-2013 15:04
Instrument ID: BSMSD.i
Client ID: CV0793B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

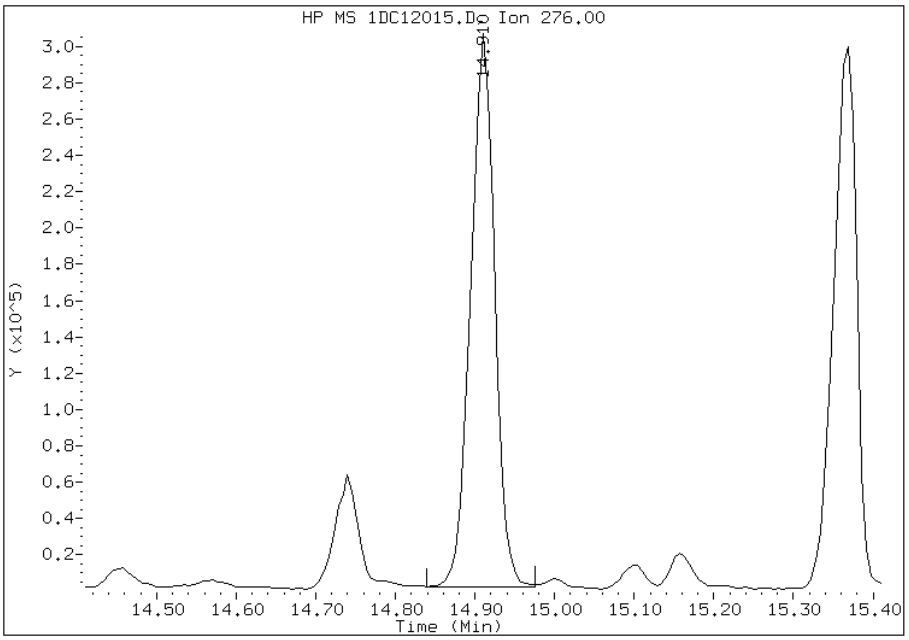
Processing Integration Results

RT: 14.91

Response: 634363

Amount: 17

Conc: 1550



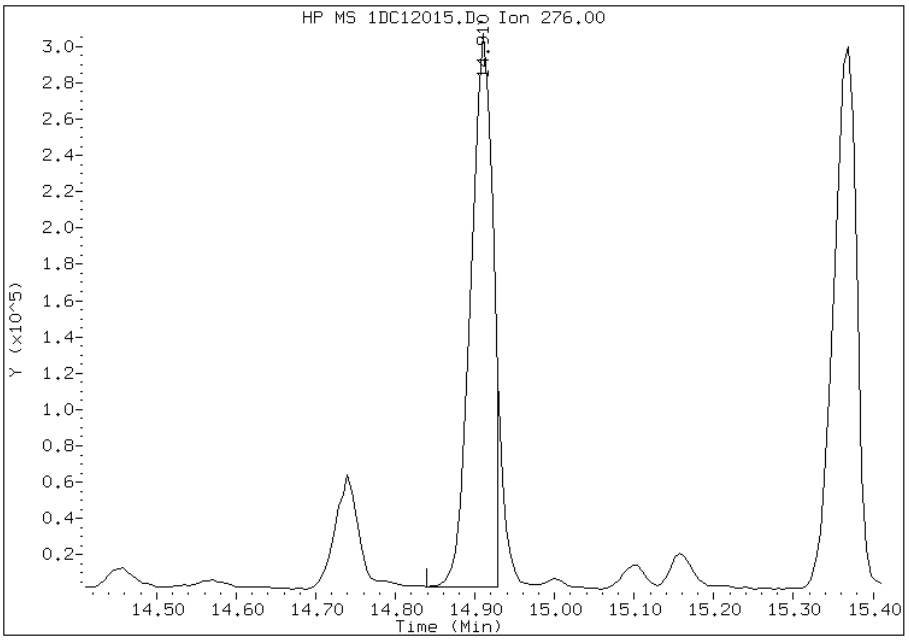
Manual Integration Results

RT: 14.91

Response: 590784

Amount: 16

Conc: 1443



Manually Integrated By: cantins
Modification Date: 13-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.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0793B-CS-SP DL | Lab Sample ID: 680-88065-4 DL

Matrix: Solid | Lab File ID: 1CC13020.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 10:43

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.96(g) | Date Analyzed: 03/13/2013 17:11

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

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

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

Analysis Batch No.: 135360 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	4700		61	31

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13020.D
Lab Smp Id: 680-88065-A-4-A Client Smp ID: CV0793B-CS-SP
Inj Date : 13-MAR-2013 17:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-A-4-A
Misc Info : 680-88065-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.960	Weight Extracted
M	20.273	% 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	3.757	3.757	(1.000)	1286705	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	985458	40.0000	
* 10 Phenanthrene-d10	188	5.798	5.798	(1.000)	1714447	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.043)	42846	1.65523	555.1121
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1936845	40.0000	
* 23 Perylene-d12	264	8.933	8.933	(1.000)	1862403	40.0000	
2 Naphthalene	128	3.769	3.768	(1.003)	26376	0.78740	264.0676
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	21996	0.98440	330.1380
4 1-Methylnaphthalene	142	4.263	4.262	(1.135)	17391	0.85457	286.5973
9 Fluorene	166	5.186	5.186	(1.070)	3659	0.11716	39.2914(Q)
11 Phenanthrene	178	5.810	5.809	(1.002)	108919	2.19709	736.8347
12 Anthracene	178	5.845	5.845	(1.008)	13793	0.28449	95.4089
13 Carbazole	167	5.951	5.951	(1.026)	10540	0.24456	82.0168
15 Fluoranthene	202	6.651	6.651	(1.147)	271227	4.99591	1675.4724

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.815	6.815	(0.881)	259364	4.98298	1671.1368
17 Benzo(a)anthracene	228	7.733	7.733	(0.999)	253401	4.53302	1520.2341
19 Chrysene	228	7.757	7.762	(1.002)	380682	6.80481	2282.1196
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.960)	676024	13.8895	4658.1095(M)
21 Benzo(k)fluoranthene	252	8.604	8.603	(0.963)	198695	3.97952	1334.6053(QM)
22 Benzo(a)pyrene	252	8.874	8.880	(0.993)	338007	7.14966	2397.7701
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.115	(1.132)	217919	4.89999	1643.3045(M)
25 Dibenzo(a,h)anthracene	278	10.121	10.133	(1.133)	98612	2.26688	760.2412
26 Benzo(g,h,i)perylene	276	10.462	10.474	(1.171)	336812	7.23972	2427.9733

QC Flag Legend

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

Data File: 1CC13020.D

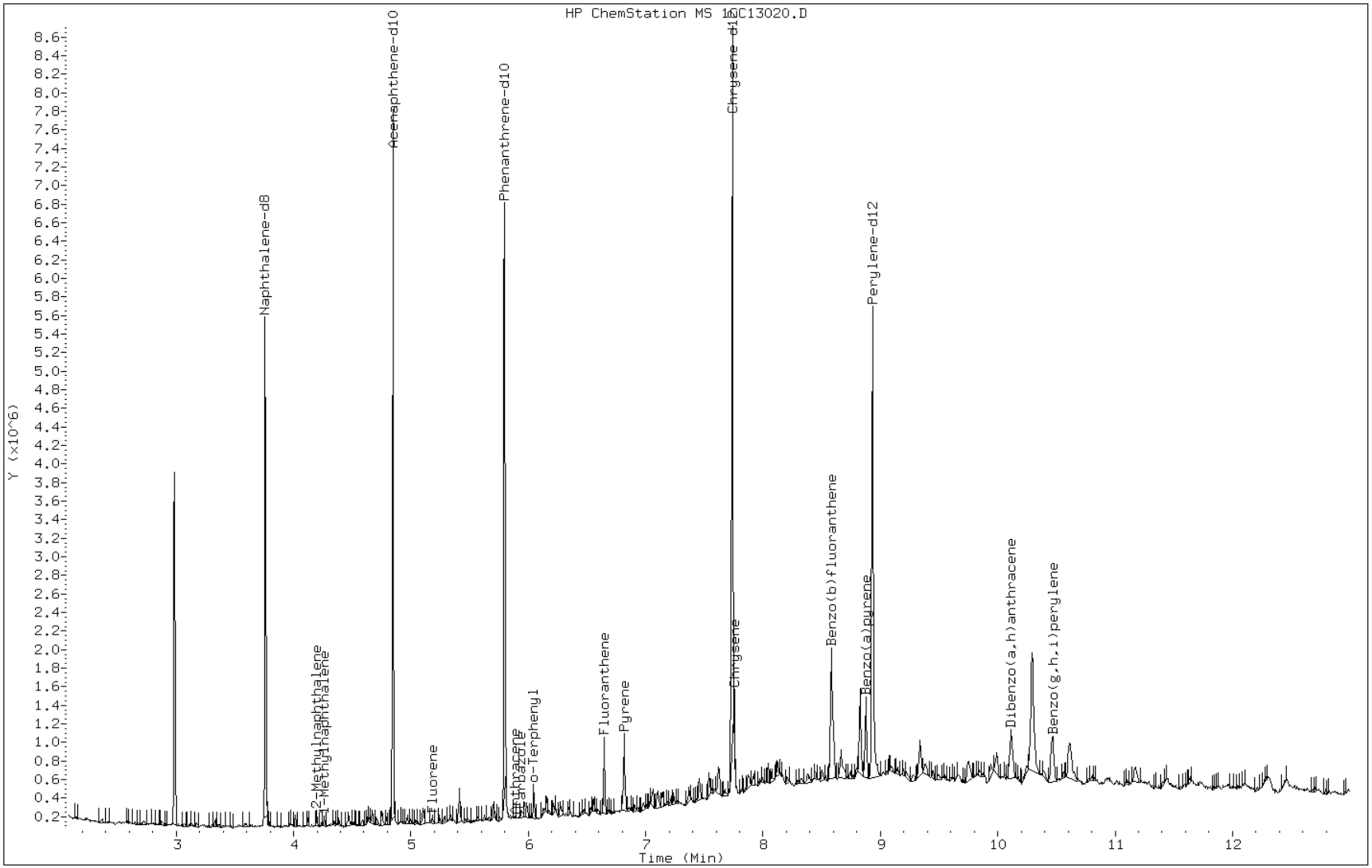
Date: 13-MAR-2013 17:11

Client ID: CV0793B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88065-A-4-A

Operator: SCC



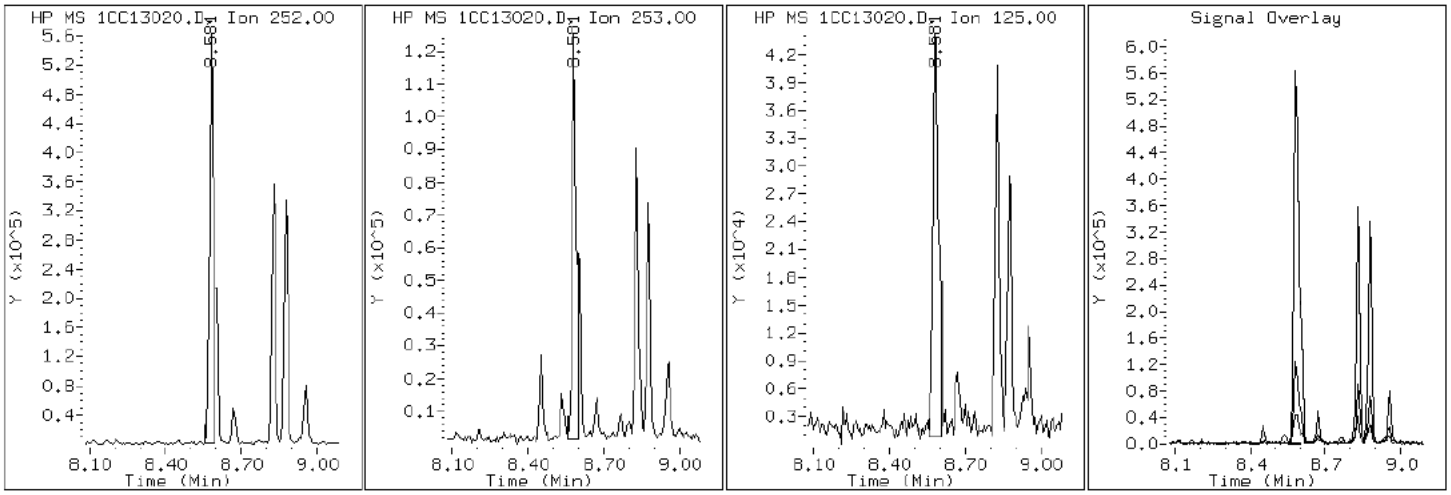
Data File: 1CC13020.D

Date: 13-MAR-2013 17:11

Client ID: CV0793B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-4-A Operator: SCC

20 Benzo(b)fluoranthene



Manual Integration Report

Data File: 1CC13020.D
Inj. Date and Time: 13-MAR-2013 17:11
Instrument ID: BSMC5973.i
Client ID: CV0793B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

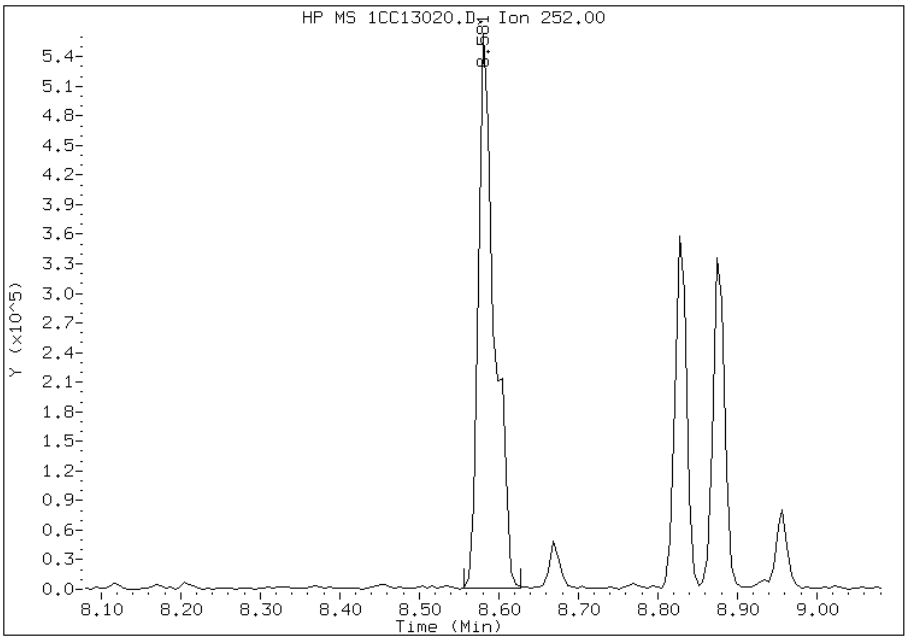
Processing Integration Results

RT: 8.58

Response: 800131

Amount: 16

Conc: 5513



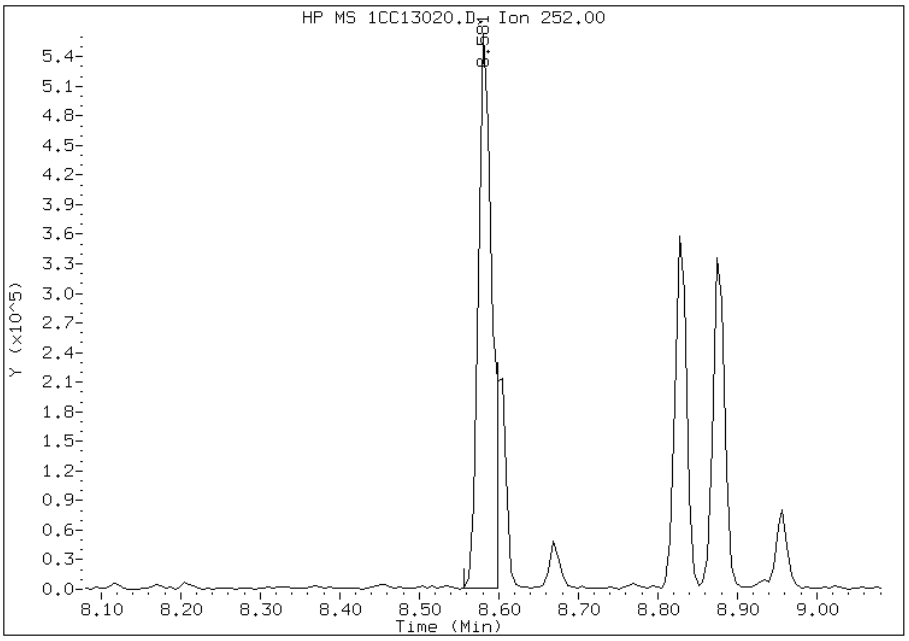
Manual Integration Results

RT: 8.58

Response: 676024

Amount: 14

Conc: 4658



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0333A-CS-SP | Lab Sample ID: 680-88065-5

Matrix: Solid | Lab File ID: 1CC12007.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 11:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 12:51

Sample wt/vol: 15.28(g) | Date Analyzed: 03/12/2013 14:03

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

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

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | 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	26
120-12-7	Anthracene	60		44	22
56-55-3	Benzo[a]anthracene	380		42	21
50-32-8	Benzo[a]pyrene	330		55	27
205-99-2	Benzo[b]fluoranthene	590		64	32
191-24-2	Benzo[g,h,i]perylene	310		110	23
207-08-9	Benzo[k]fluoranthene	200		42	19
218-01-9	Chrysene	400		47	24
53-70-3	Dibenz(a,h)anthracene	72	J	110	22
206-44-0	Fluoranthene	520		110	21
86-73-7	Fluorene	25	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	260		110	37
90-12-0	1-Methylnaphthalene	130	J	210	23
91-57-6	2-Methylnaphthalene	240		210	37
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	330		42	21
129-00-0	Pyrene	490		110	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12007.D
Lab Smp Id: 680-88065-A-5-A Client Smp ID: CV0333A-CS-SP
Inj Date : 12-MAR-2013 14:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-a-5-a
Misc Info : 680-88065-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 7
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	25.362	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1226175	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	983497	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1811457	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	61293	2.24107	786.0196
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2074537	40.0000	
* 23 Perylene-d12	264	8.939	8.945	(1.000)	2031538	40.0000	
2 Naphthalene	128	3.775	3.774	(1.003)	13104	0.41050	143.9768(Q)
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	14350	0.67392	236.3667
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	7330	0.37797	132.5666
5 Acenaphthylene	152	4.763	4.763	(0.982)	3448	0.08696	30.4990
9 Fluorene	166	5.192	5.192	(1.070)	2246	0.07206	25.2735(Q)
11 Phenanthrene	178	5.816	5.815	(1.002)	48902	0.93361	327.4501
12 Anthracene	178	5.851	5.851	(1.008)	8740	0.17061	59.8403
13 Carbazole	167	5.957	5.957	(1.026)	9174	0.20146	70.6599

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	85205	1.48540	520.9806
16 Pyrene	202	6.821	6.827	(0.881)	78603	1.40991	494.5055
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	65464	1.09334	383.4726
19 Chrysene	228	7.763	7.768	(1.002)	68415	1.14177	400.4581
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	88781	1.67222	586.5059(M)
21 Benzo(k)fluoranthene	252	8.610	8.615	(0.963)	30881	0.56700	198.8667(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.994)	48291	0.93643	328.4375
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	36417	0.75068	263.2885(M)
25 Dibenzo(a,h)anthracene	278	10.145	10.145	(1.135)	9725	0.20495	71.8813
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	45032	0.88737	311.2306(M)

QC Flag Legend

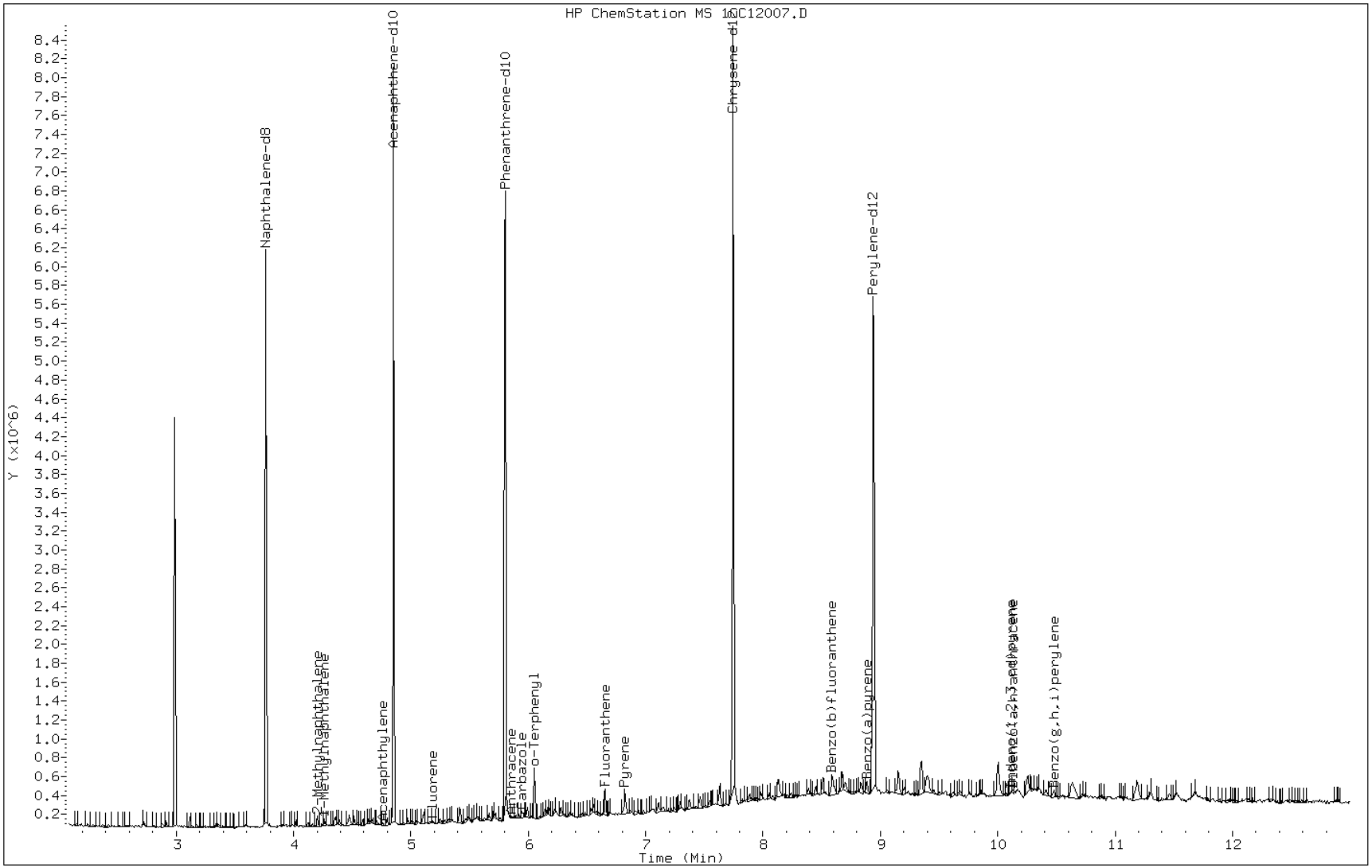
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC



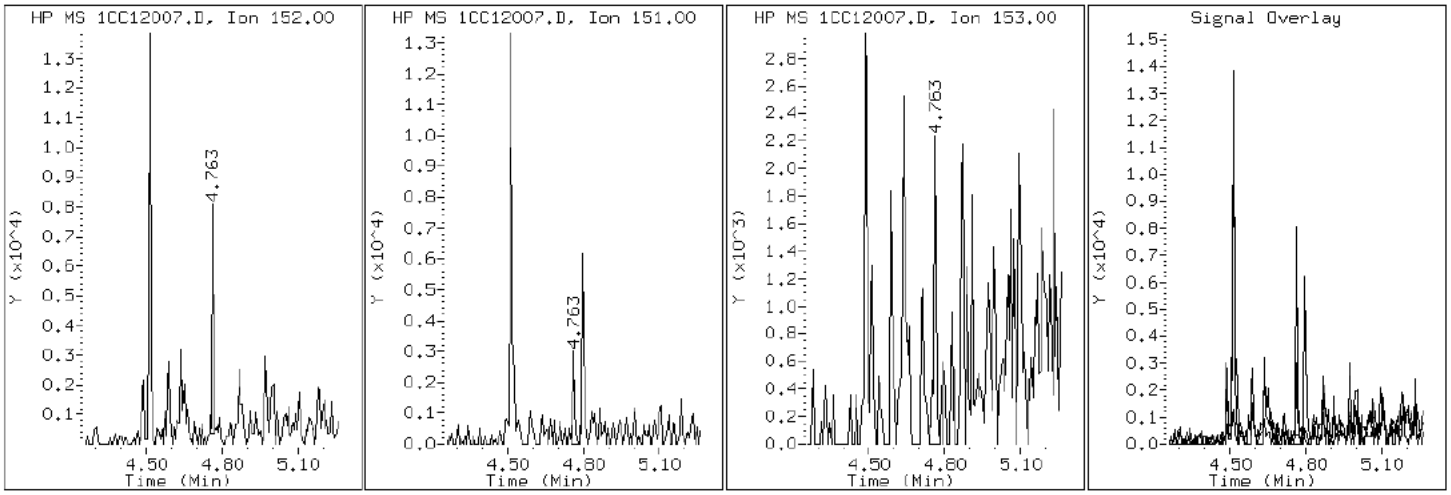
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

5 Acenaphthylene



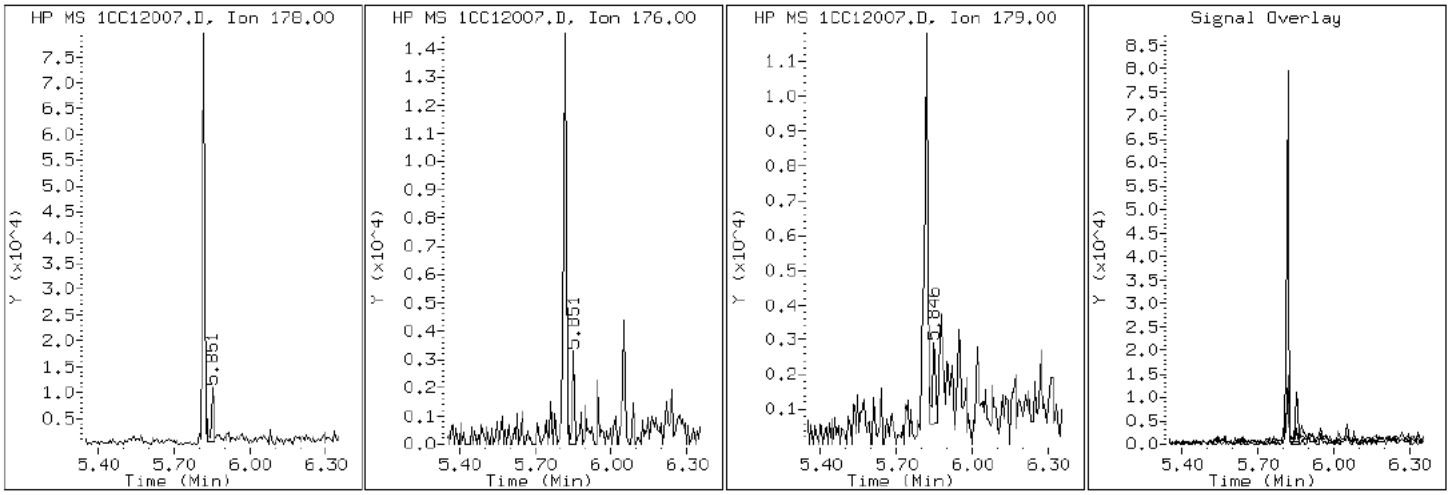
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

12 Anthracene



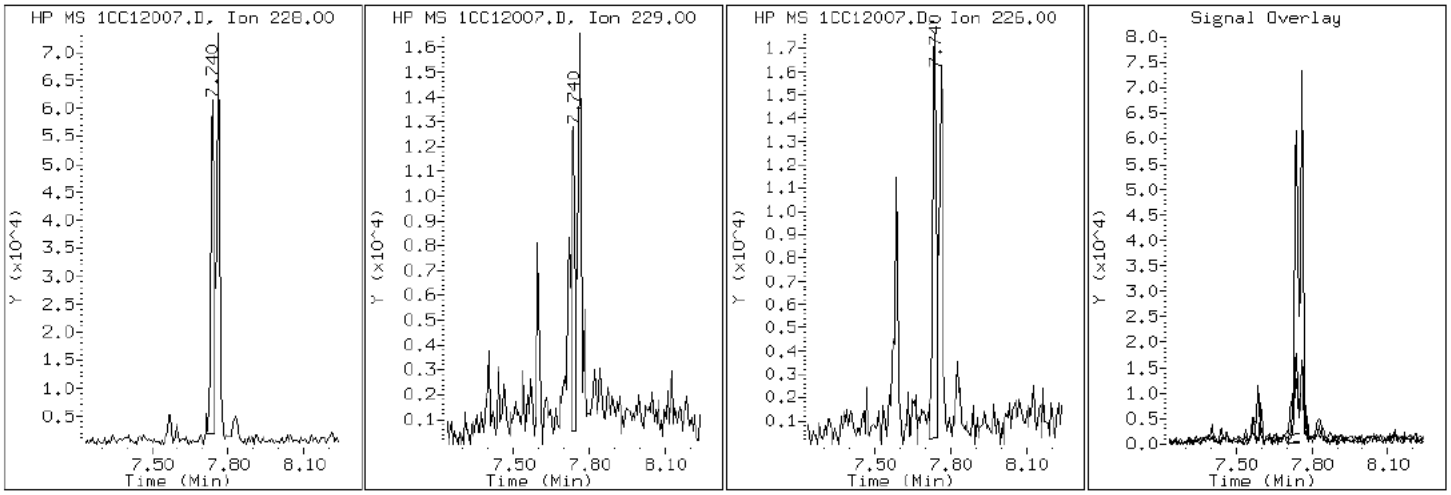
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

17 Benzo(a)anthracene



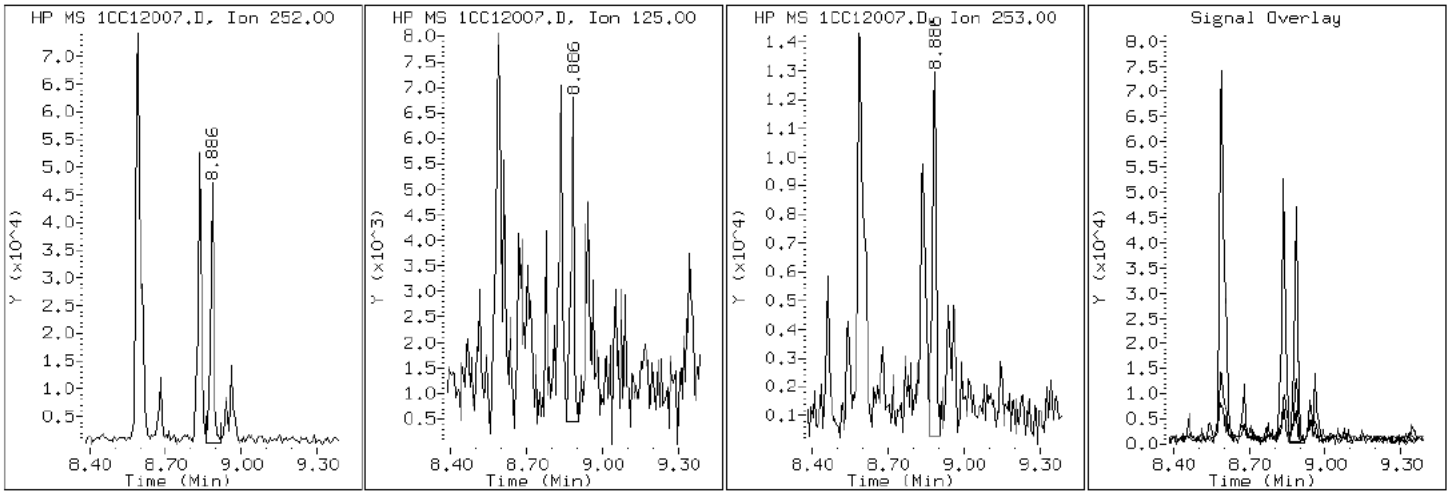
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

22 Benzo(a)pyrene



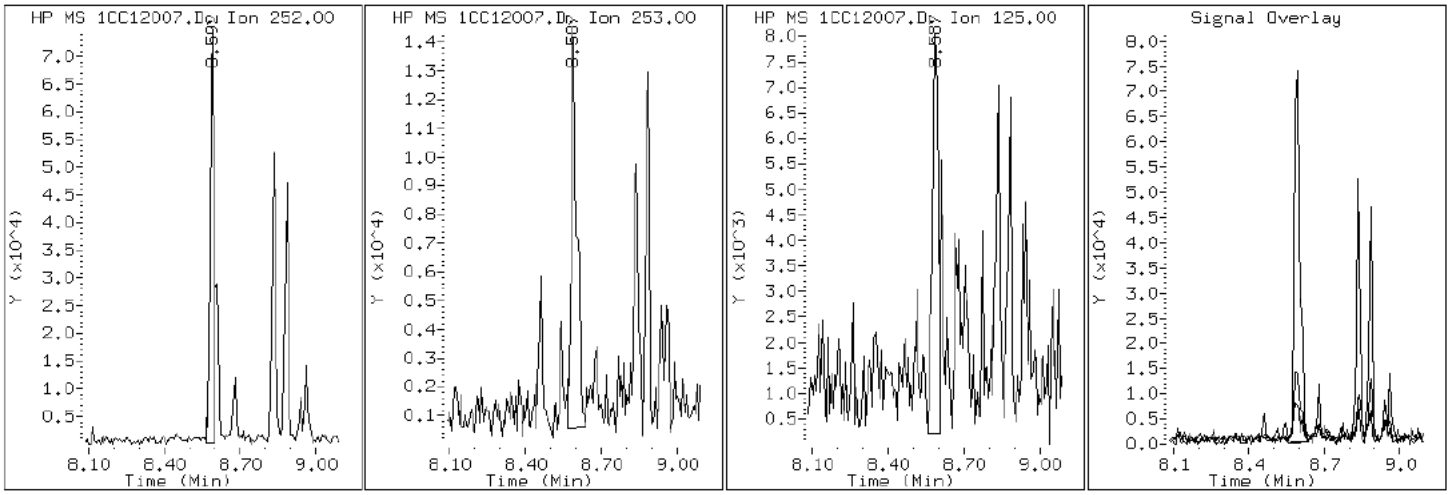
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



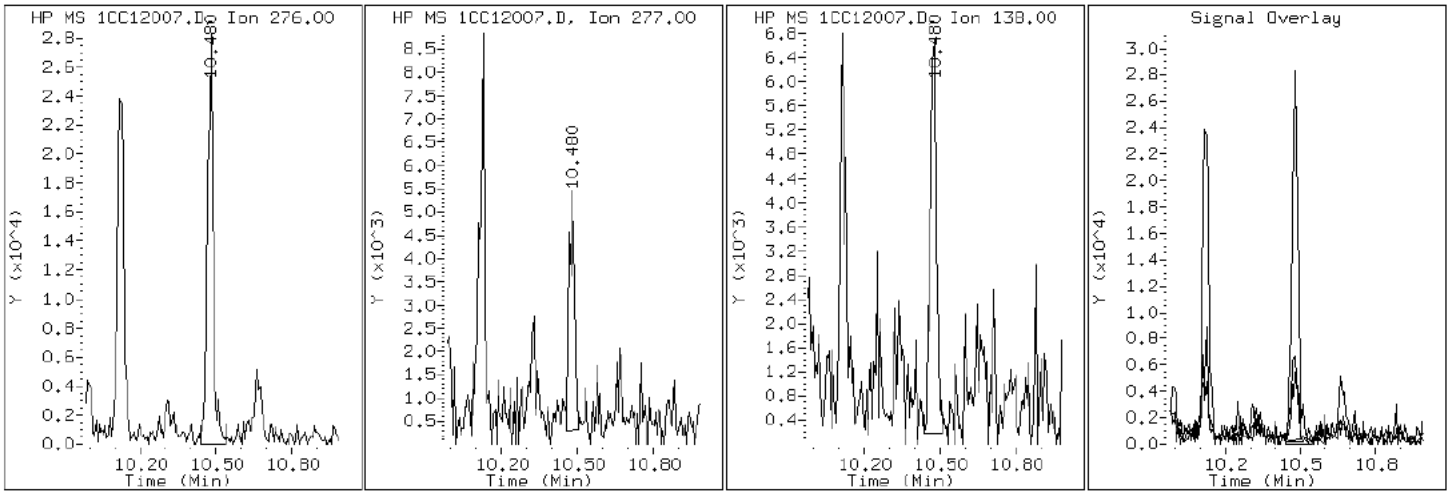
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



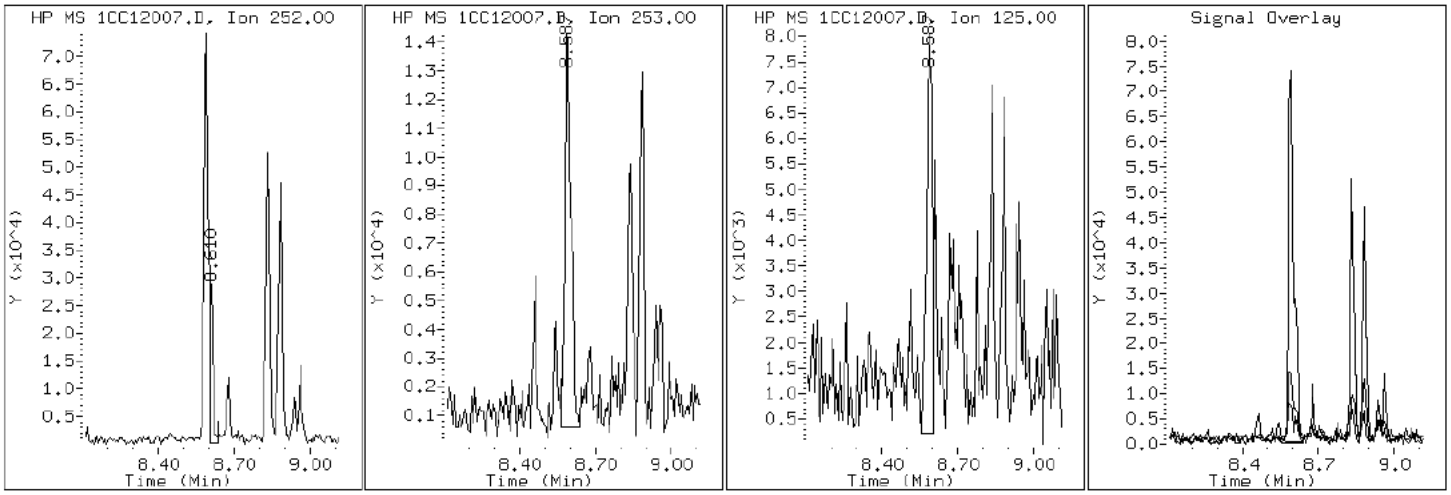
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



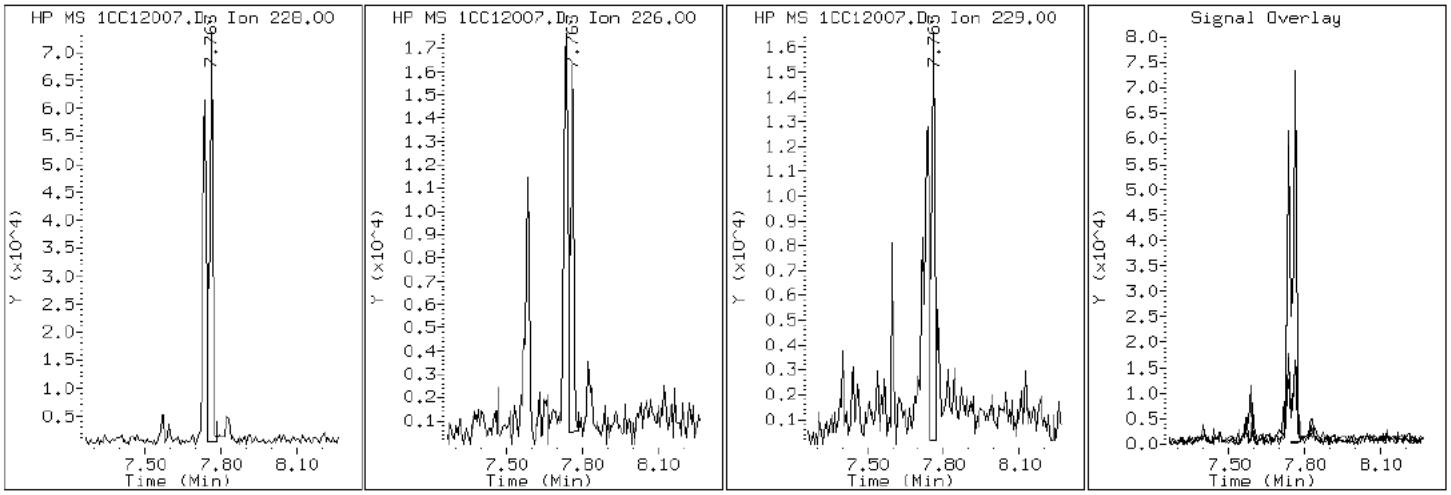
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

19 Chrysene



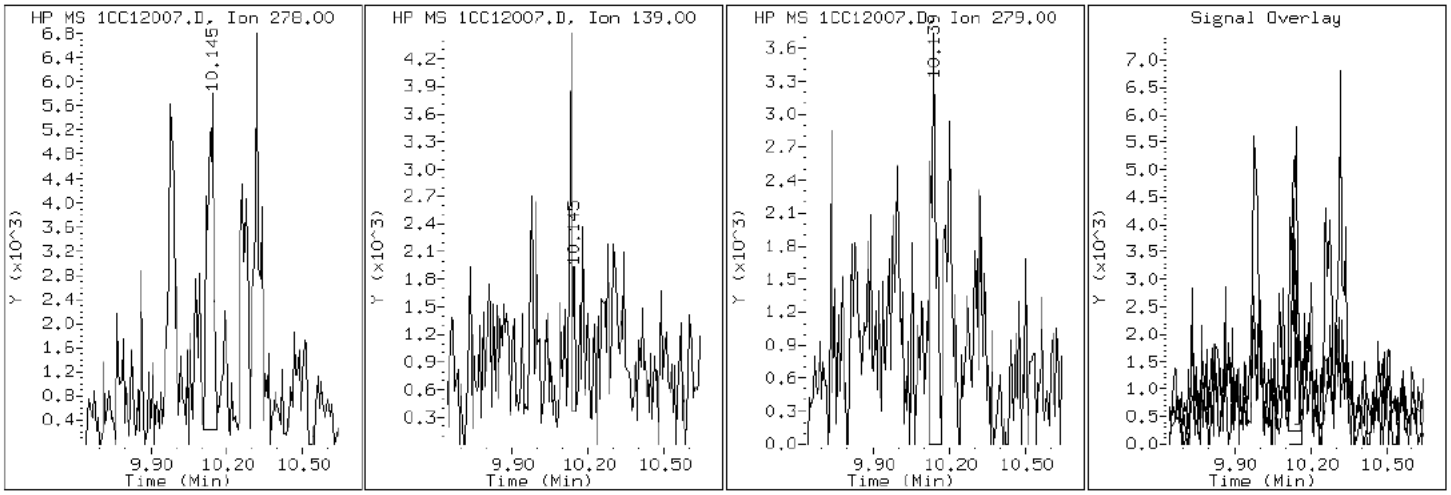
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



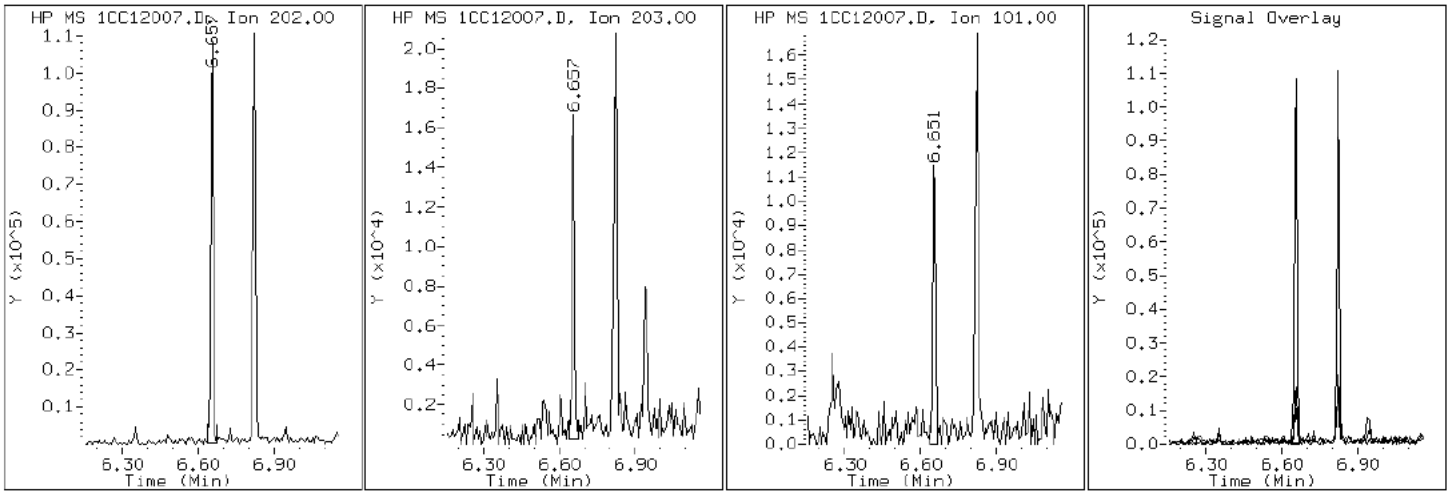
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

15 Fluoranthene



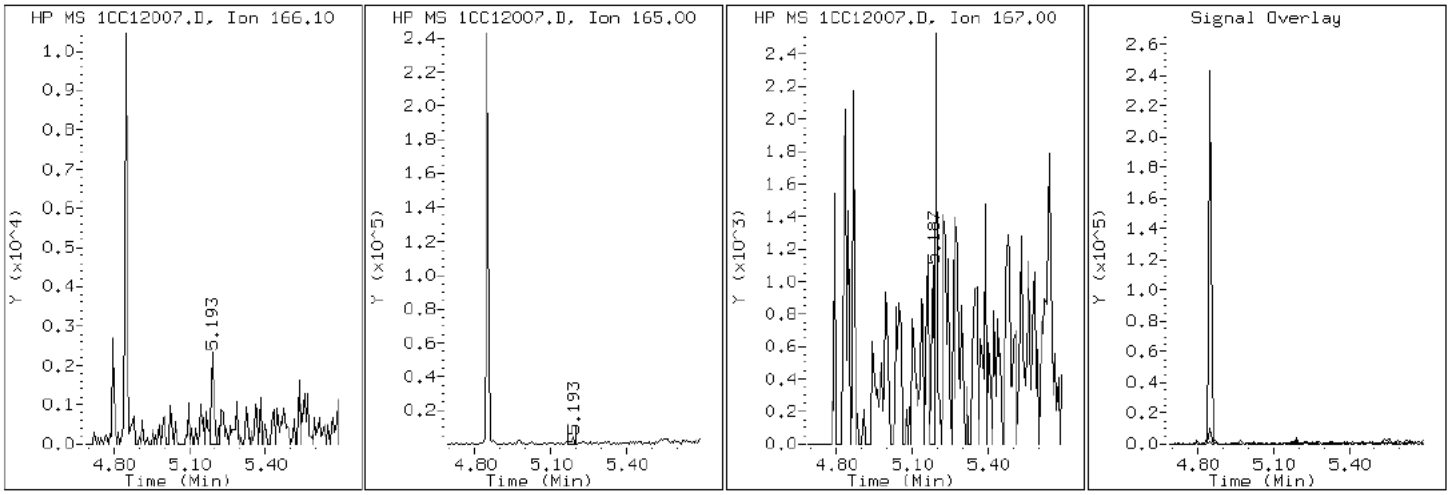
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

9 Fluorene



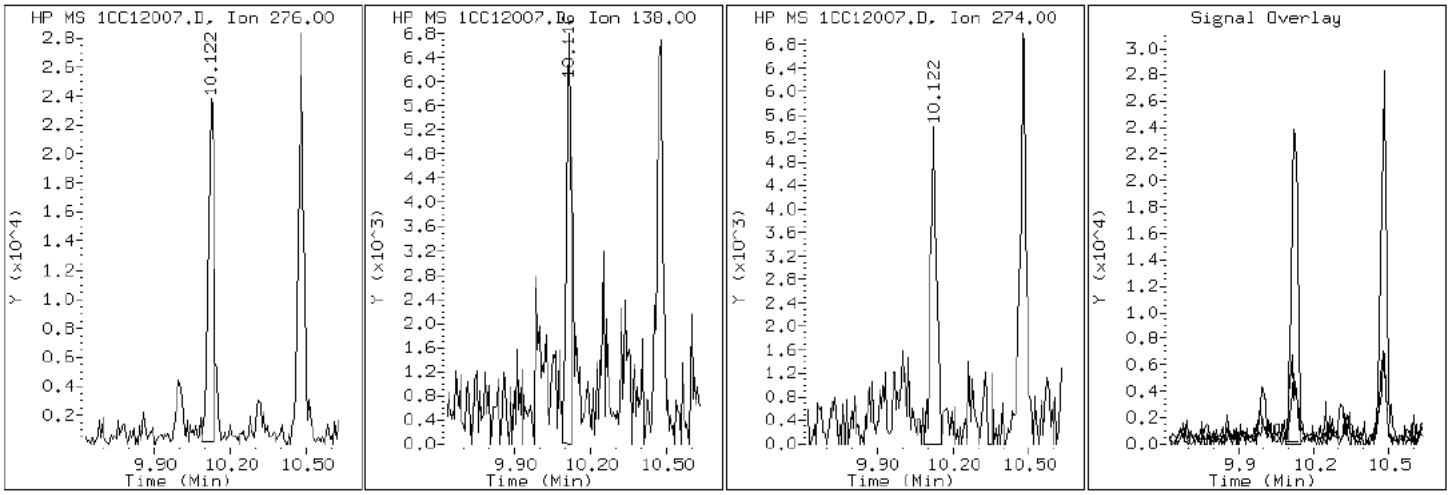
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

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



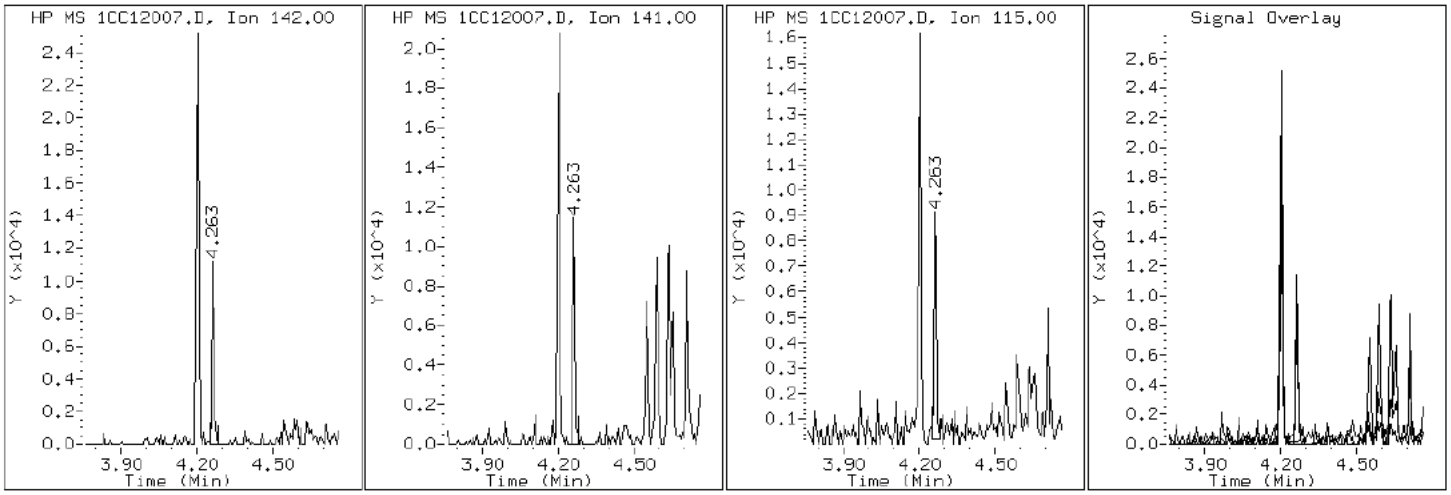
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

4 1-Methylnaphthalene



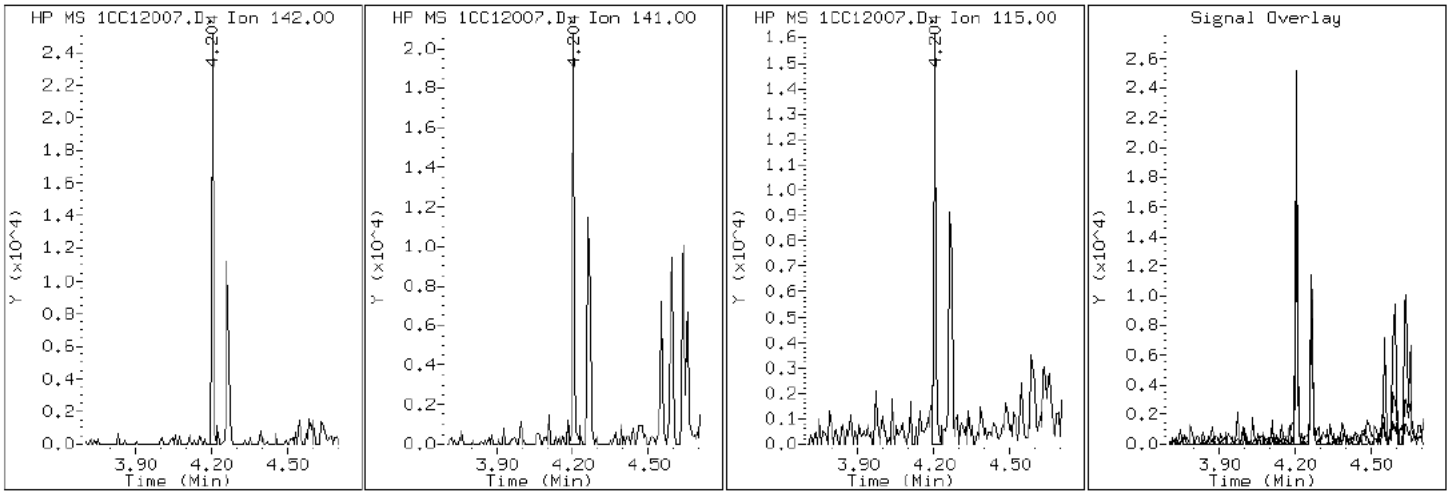
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

3 2-Methylnaphthalene



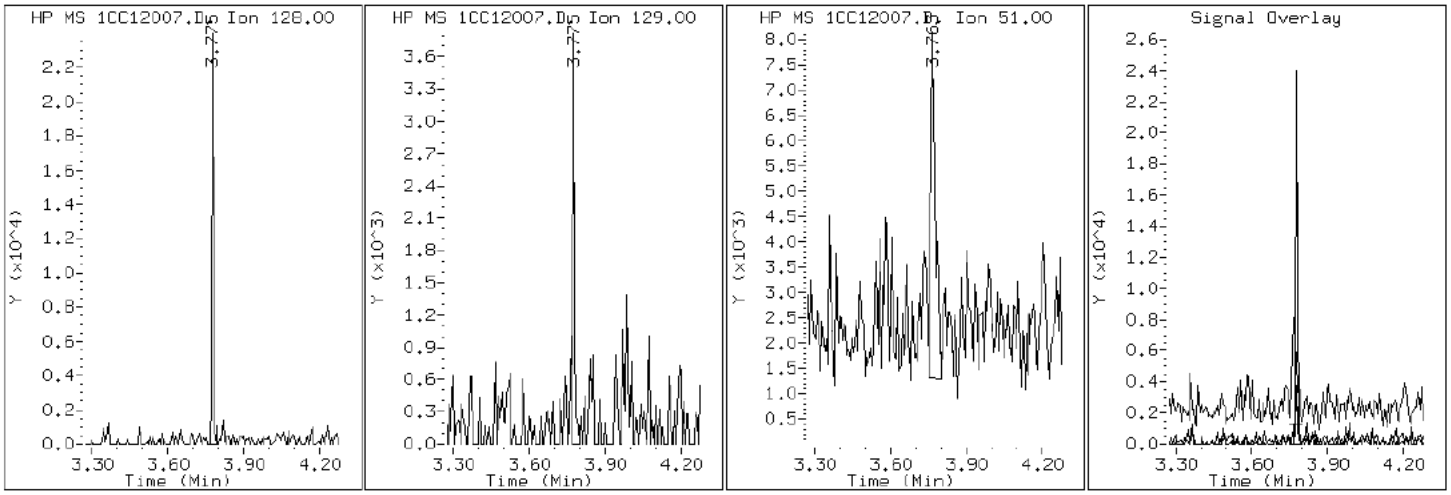
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

2 Naphthalene



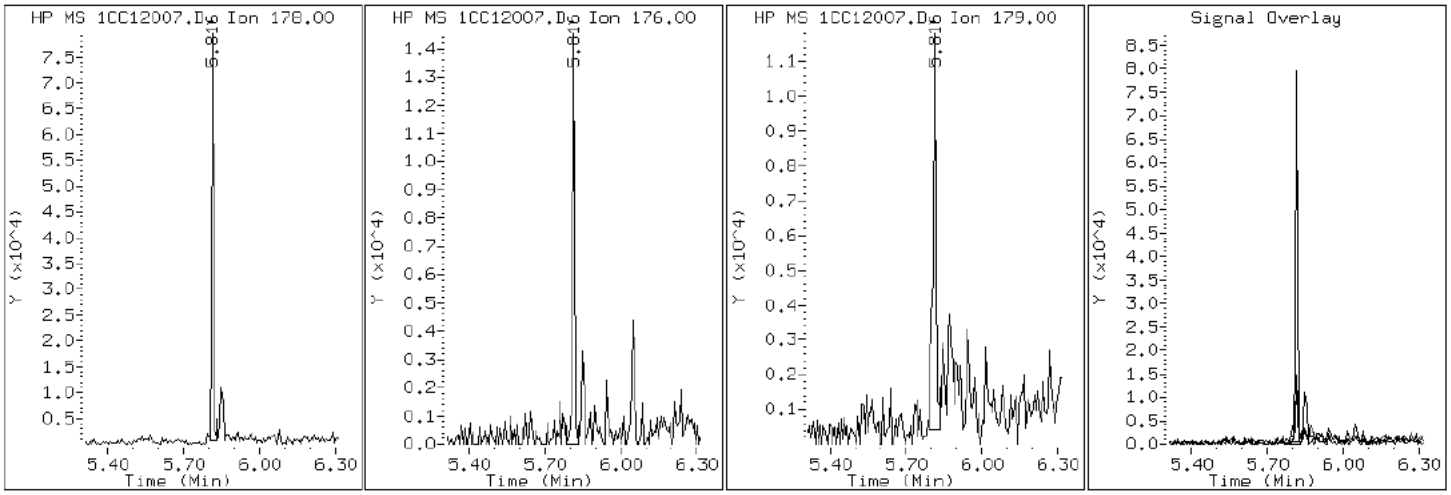
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

11 Phenanthrene



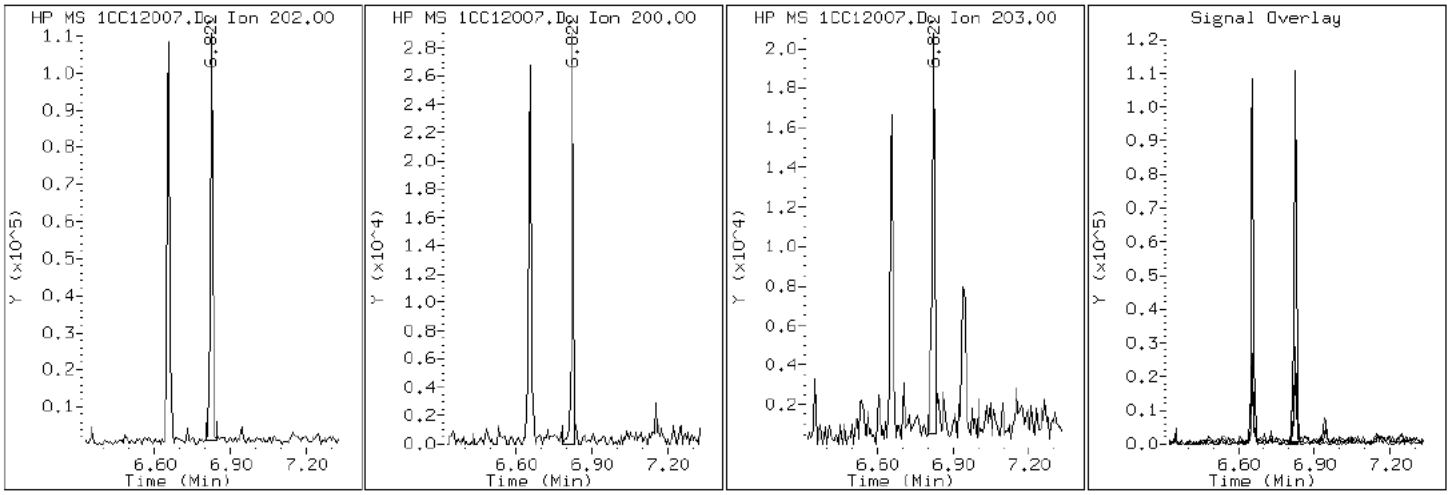
Data File: 1CC12007.D

Date: 12-MAR-2013 14:03

Client ID: CV0333A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12007.D
Inj. Date and Time: 12-MAR-2013 14:03
Instrument ID: BSMC5973.i
Client ID: CV0333A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

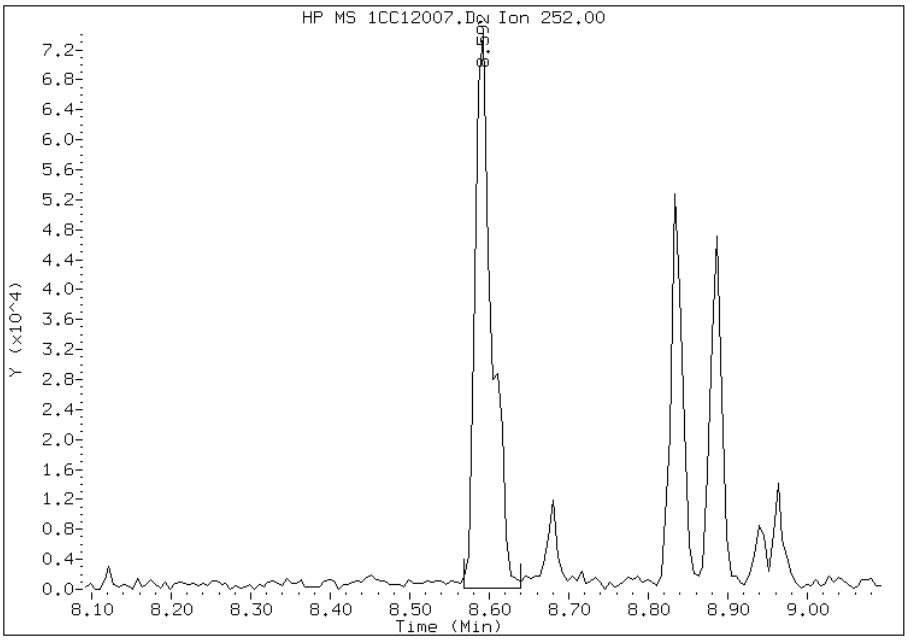
Processing Integration Results

RT: 8.59

Response: 110171

Amount: 2

Conc: 728



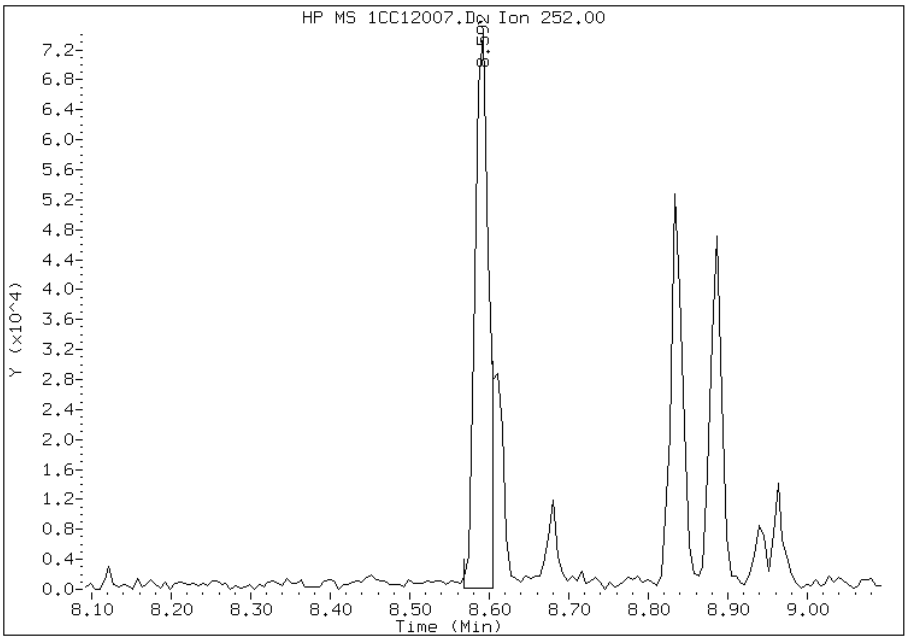
Manual Integration Results

RT: 8.59

Response: 88781

Amount: 2

Conc: 587



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12007.D
Inj. Date and Time: 12-MAR-2013 14:03
Instrument ID: BSMC5973.i
Client ID: CV0333A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/13/2013

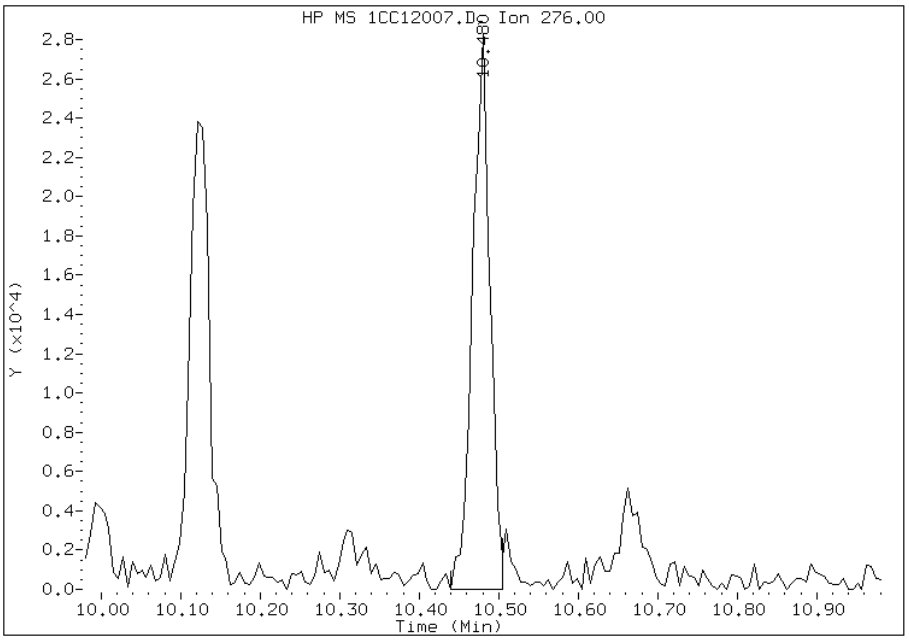
Processing Integration Results

RT: 10.48

Response: 42722

Amount: 1

Conc: 295



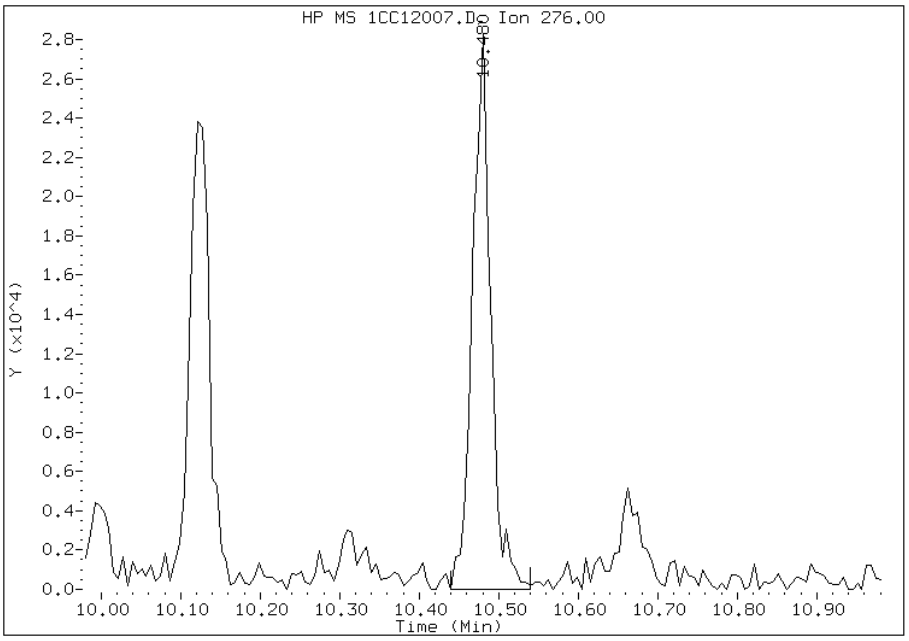
Manual Integration Results

RT: 10.48

Response: 45032

Amount: 1

Conc: 311



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12007.D
Inj. Date and Time: 12-MAR-2013 14:03
Instrument ID: BSMC5973.i
Client ID: CV0333A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

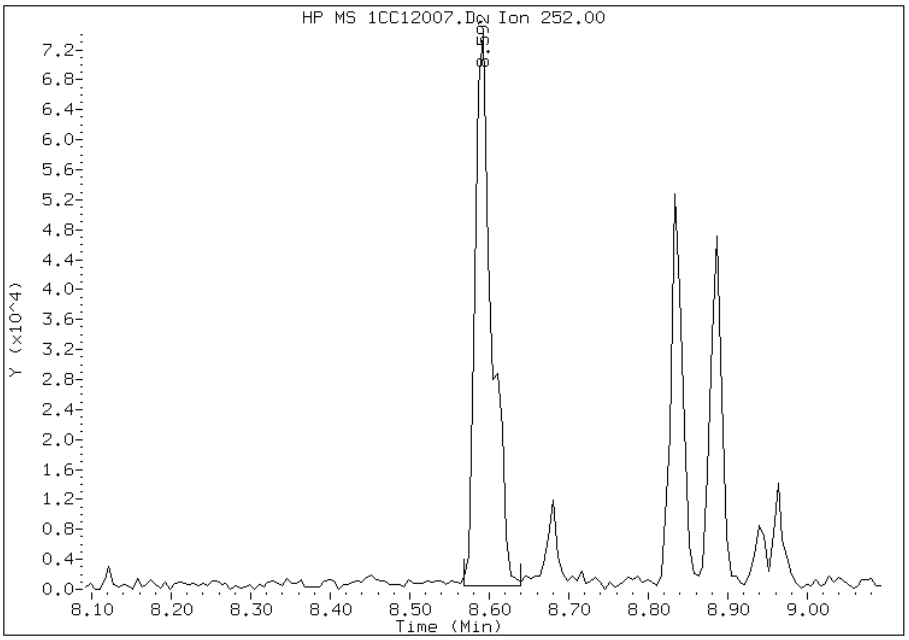
Processing Integration Results

RT: 8.59

Response: 108602

Amount: 2

Conc: 699



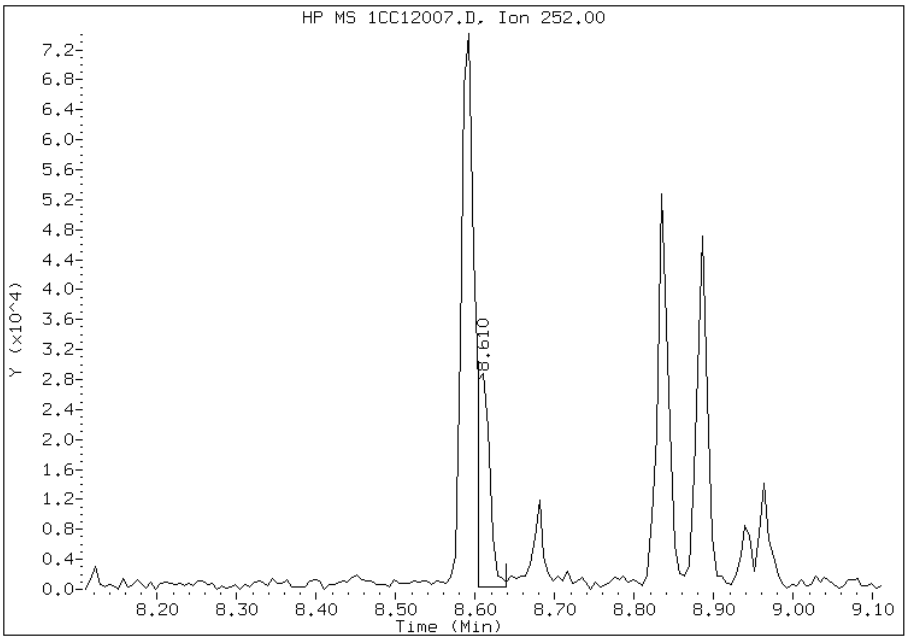
Manual Integration Results

RT: 8.61

Response: 30881

Amount: 1

Conc: 199



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12007.D
Inj. Date and Time: 12-MAR-2013 14:03
Instrument ID: BSMC5973.i
Client ID: CV0333A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

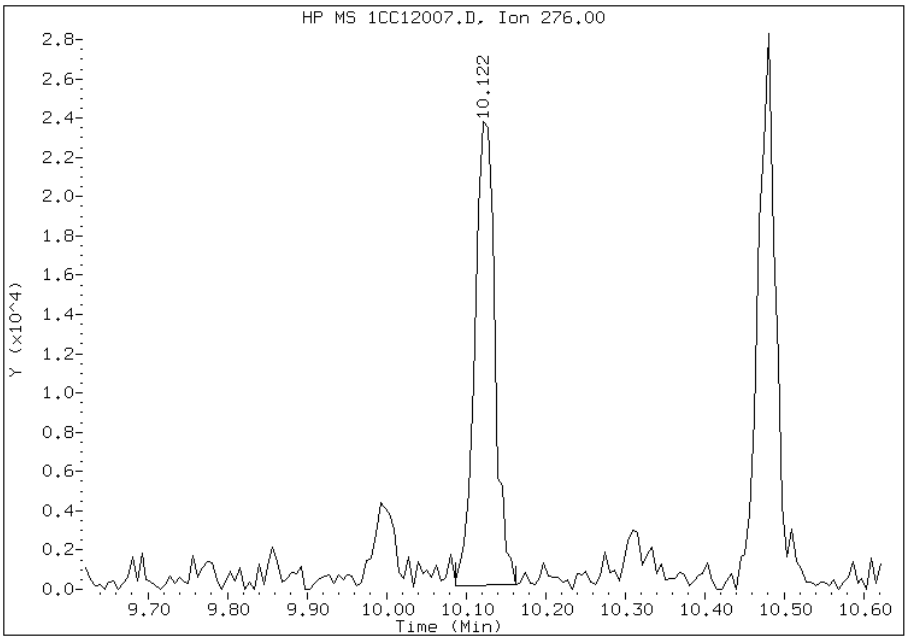
Processing Integration Results

RT: 10.12

Response: 41193

Amount: 1

Conc: 298



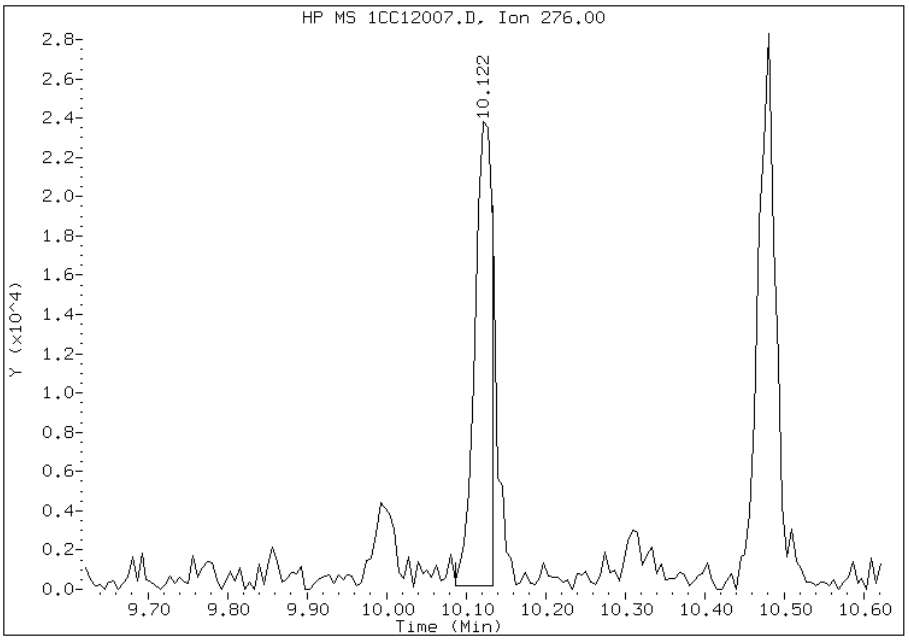
Manual Integration Results

RT: 10.12

Response: 36417

Amount: 1

Conc: 263



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0333B-CS-SP | Lab Sample ID: 680-88065-6

Matrix: Solid | Lab File ID: 1DC12016.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 11:40

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.43(g) | Date Analyzed: 03/12/2013 15:26

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

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

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

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	20	J	52	6.5
120-12-7	Anthracene	43		11	5.4
56-55-3	Benzo[a]anthracene	200		10	5.0
50-32-8	Benzo[a]pyrene	180		13	6.7
205-99-2	Benzo[b]fluoranthene	370		16	7.9
191-24-2	Benzo[g,h,i]perylene	79		26	5.7
207-08-9	Benzo[k]fluoranthene	130		10	4.7
218-01-9	Chrysene	240		12	5.8
53-70-3	Dibenz(a,h)anthracene	27		26	5.3
206-44-0	Fluoranthene	320		26	5.2
86-73-7	Fluorene	9.3	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	74		26	9.2
90-12-0	1-Methylnaphthalene	55		52	5.7
91-57-6	2-Methylnaphthalene	75		52	9.2
91-20-3	Naphthalene	66		52	5.7
85-01-8	Phenanthrene	170		10	5.0
129-00-0	Pyrene	290		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12016.D
Lab Smp Id: 680-88065-A-6-A Client Smp ID: CV0333B-CS-SP
Inj Date : 12-MAR-2013 15:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-6-A
Misc Info : 680-88065-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 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	14.430	Weight Extracted
M	25.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.155	6.149	(1.000)	2248266	40.0000	
* 6 Acenaphthene-d10	164	7.818	7.818	(1.000)	1413809	40.0000	
* 9 Phenanthrene-d10	188	9.081	9.075	(1.000)	2459405	40.0000	
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	285242	7.50000	690
* 17 Chrysene-d12	240	11.413	11.414	(1.000)	2166425	40.0000	
* 22 Perylene-d12	264	13.276	13.282	(1.000)	1396844	40.0000	
2 Naphthalene	128	6.172	6.173	(1.003)	46165	0.76759	71
3 2-Methylnaphthalene	142	6.872	6.872	(1.116)	33180	0.86606	80
4 1-Methylnaphthalene	142	6.960	6.960	(1.131)	23016	0.64154	59
5 Acenaphthylene	152	7.688	7.688	(0.983)	14172	0.22737	21
8 Fluorene	166	8.288	8.288	(1.060)	4814	0.10841	10
10 Phenanthrene	178	9.098	9.099	(1.002)	141360	2.02480	190
11 Anthracene	178	9.134	9.140	(1.006)	35005	0.50114	46
12 Carbazole	167	9.275	9.275	(1.021)	21001	0.33632	31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.080	10.080	(1.110)	267222	3.66779	340
15 Pyrene	202	10.268	10.268	(0.900)	229084	3.40896	310
16 Benzo(a)anthracene	228	11.402	11.396	(0.999)	136747	2.30556	210
18 Chrysene	228	11.437	11.443	(1.002)	171023	2.79297	260
19 Benzo(b)fluoranthene	252	12.724	12.730	(0.958)	152974	4.25466	390
20 Benzo(k)fluoranthene	252	12.759	12.765	(0.961)	57648	1.53134	140
21 Benzo(a)pyrene	252	13.182	13.188	(0.993)	72825	2.04680	190
23 Indeno(1,2,3-cd)pyrene	276	14.886	14.898	(1.121)	32643	0.85970	79(M)
24 Dibenzo(a,h)anthracene	278	14.915	14.927	(1.123)	11070	0.31569	29
25 Benzo(g,h,i)perylene	276	15.338	15.356	(1.155)	33089	0.91400	84

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC12016.D

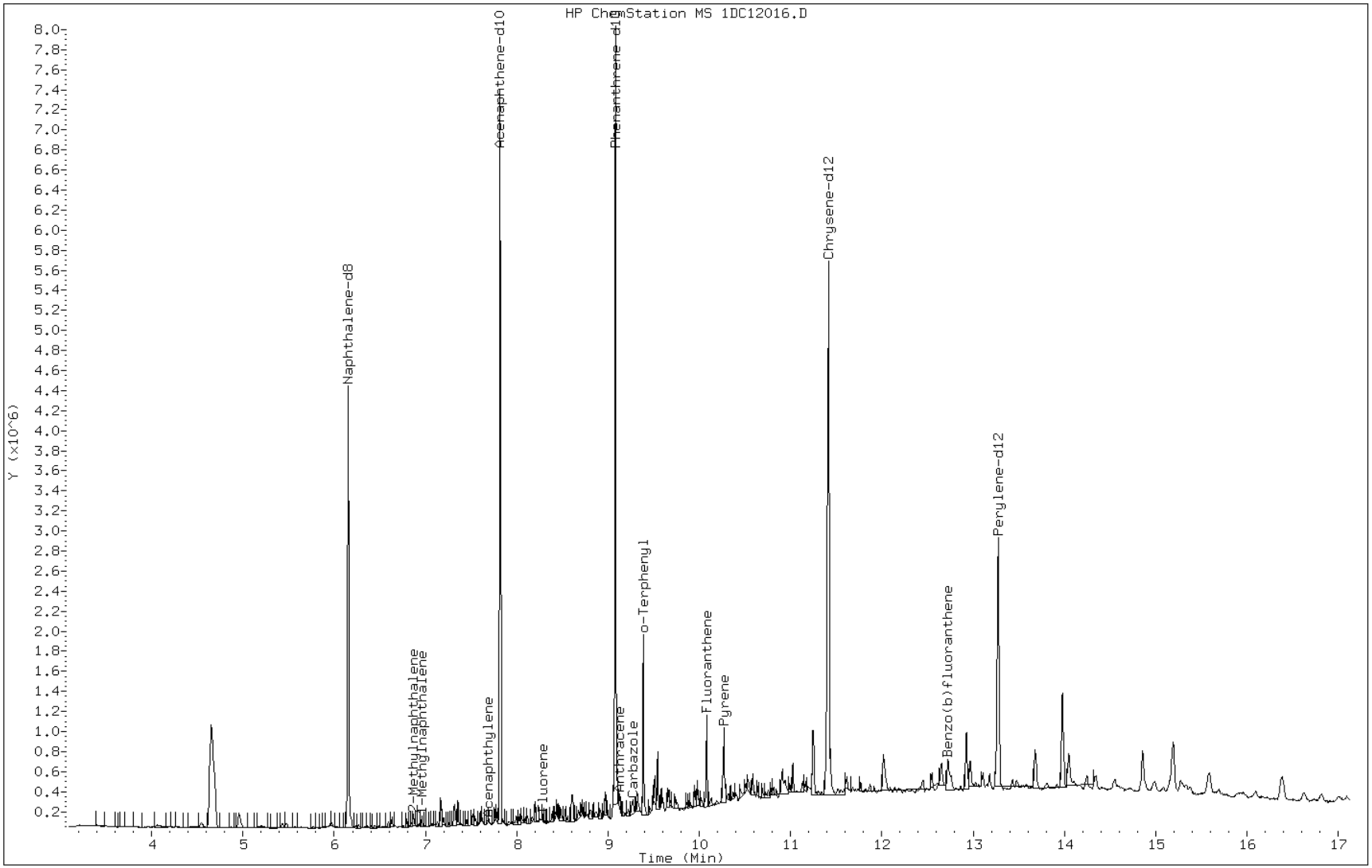
Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A

Operator: SCC



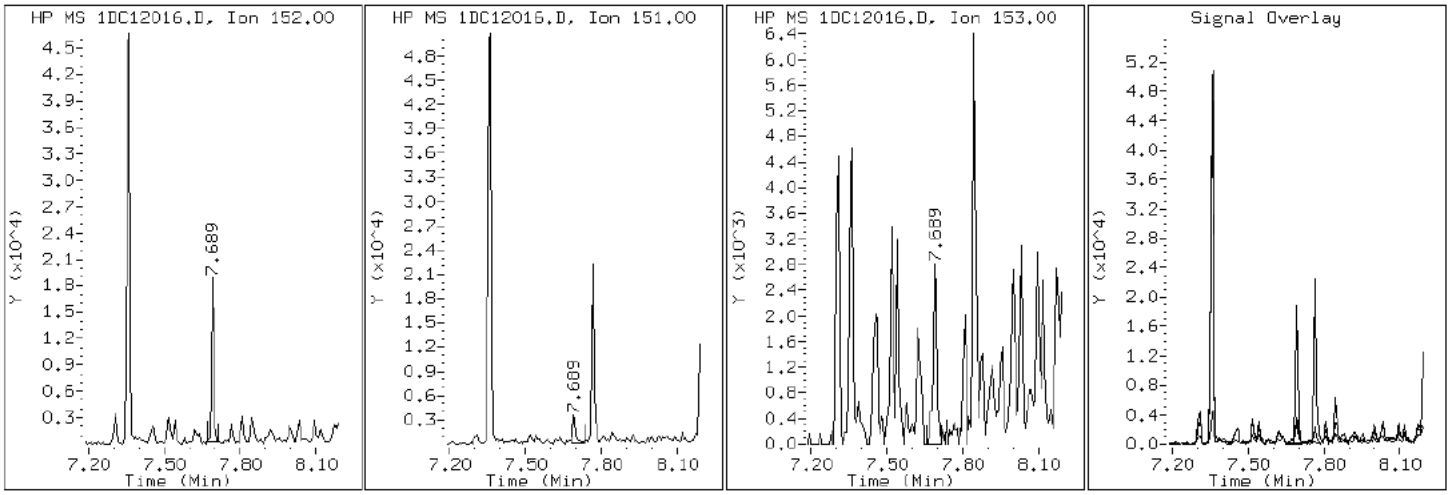
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

5 Acenaphthylene



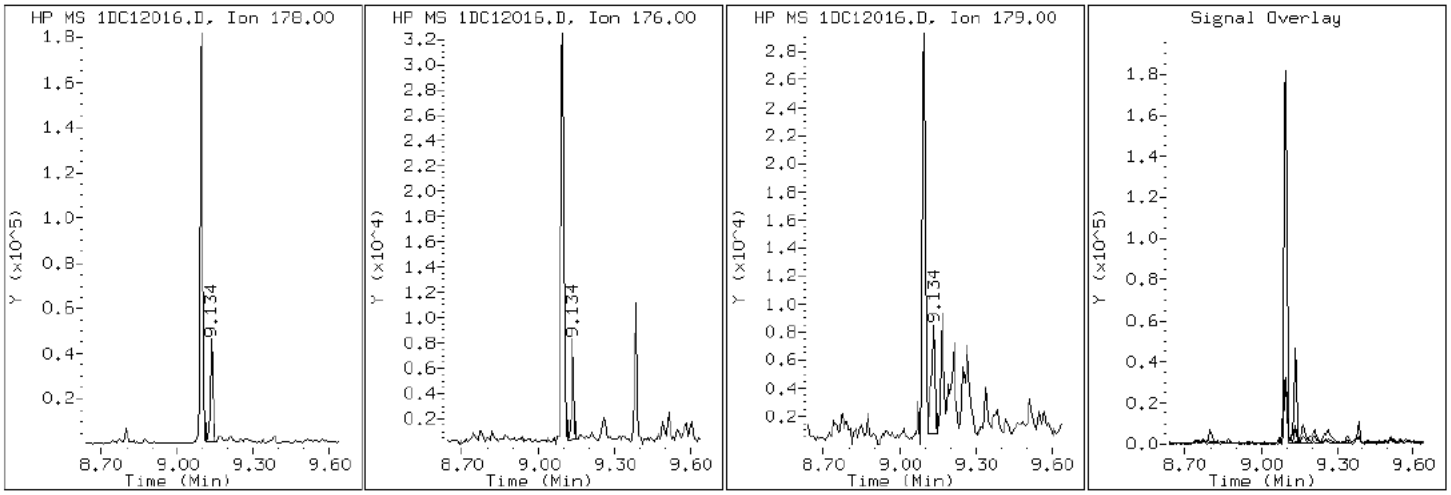
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

11 Anthracene



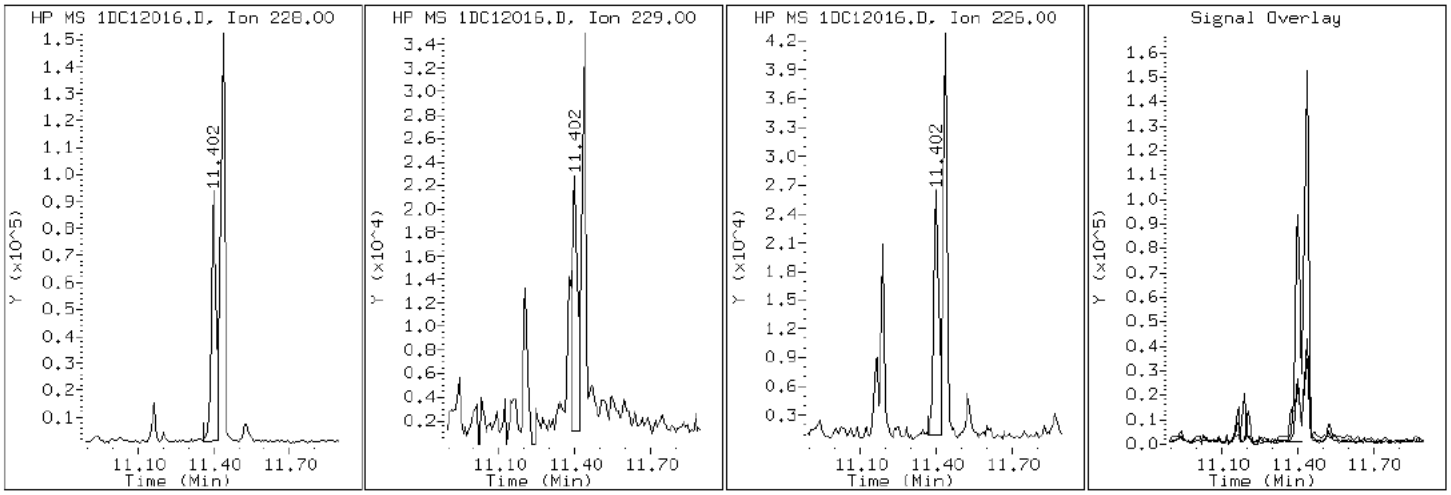
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

16 Benzo(a)anthracene



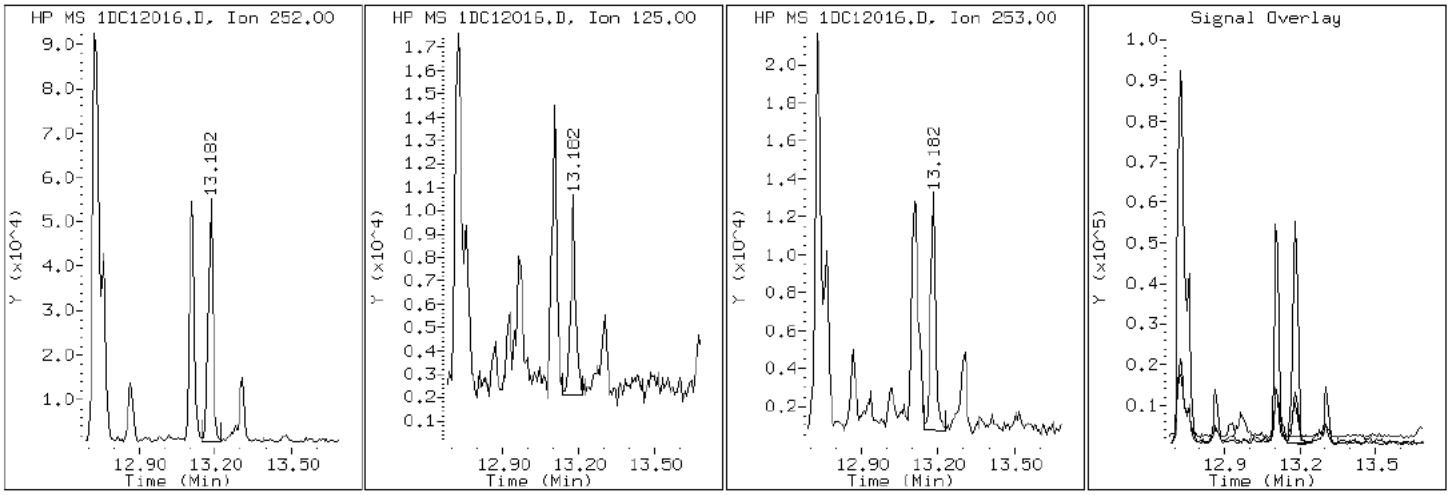
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

21 Benzo(a)pyrene



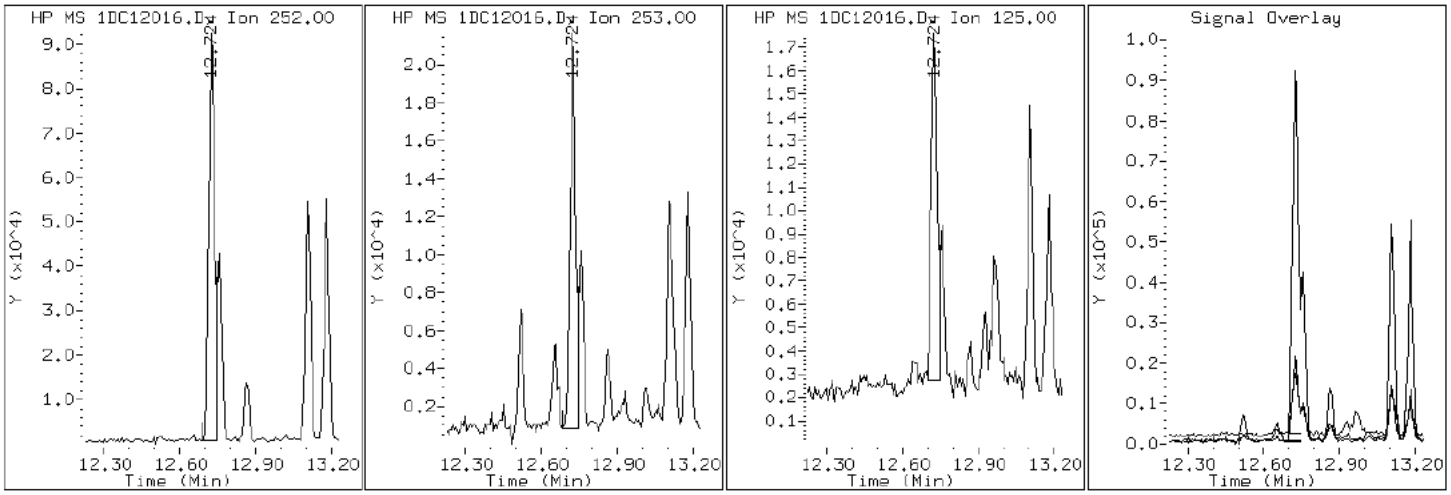
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

19 Benzo(b)fluoranthene



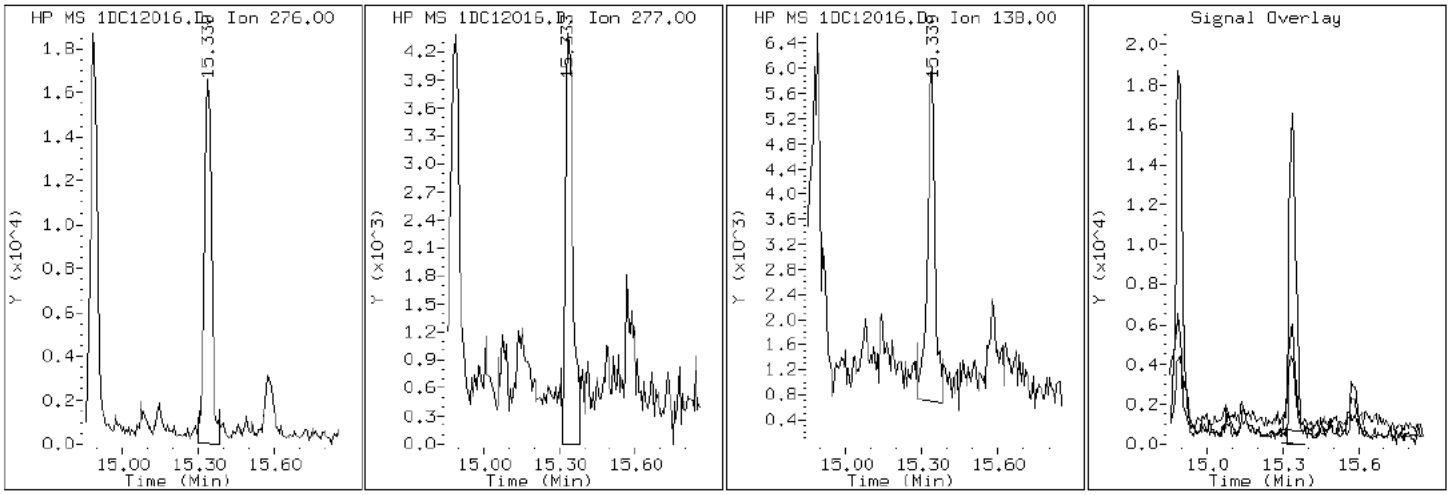
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

25 Benzo(g,h,i)perylene



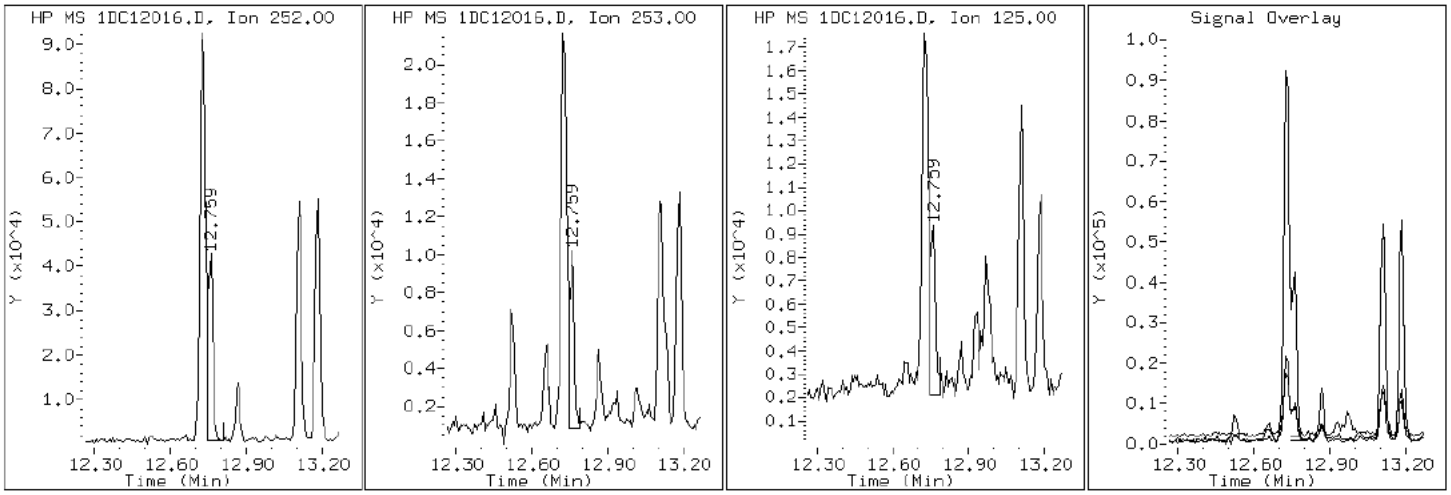
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

20 Benzo(k)fluoranthene



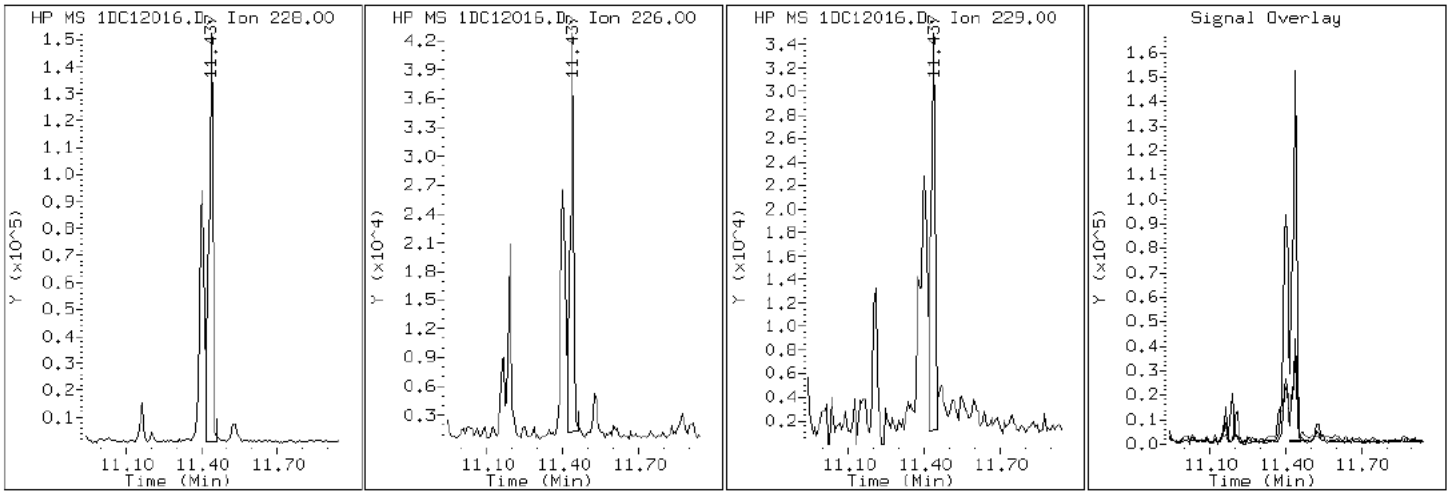
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

18 Chrysene



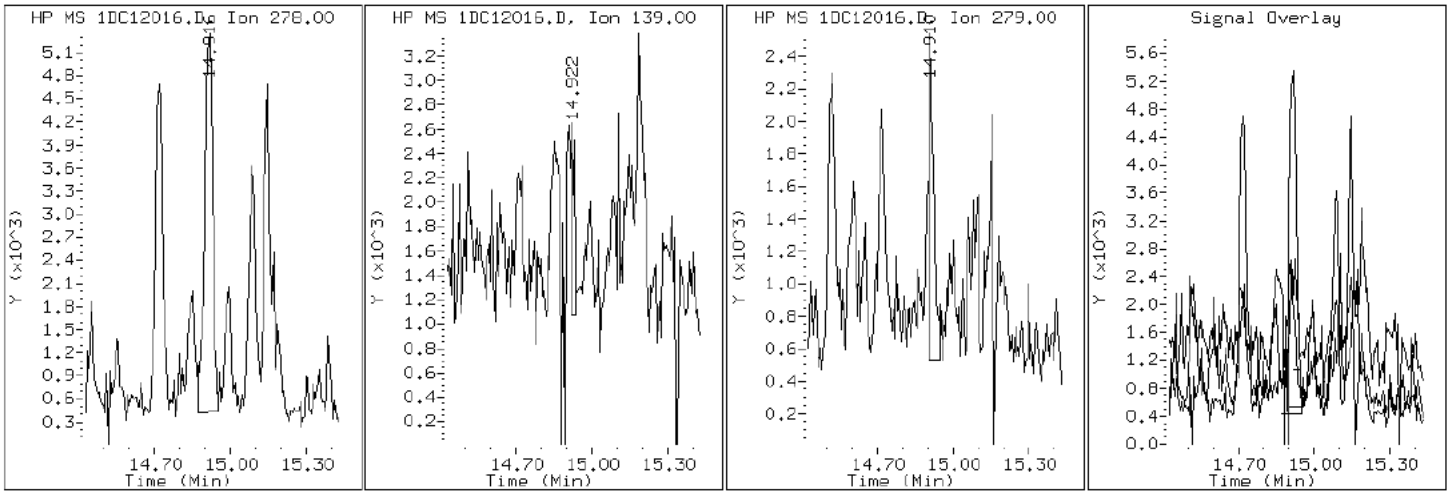
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

24 Dibenzo(a,h)anthracene



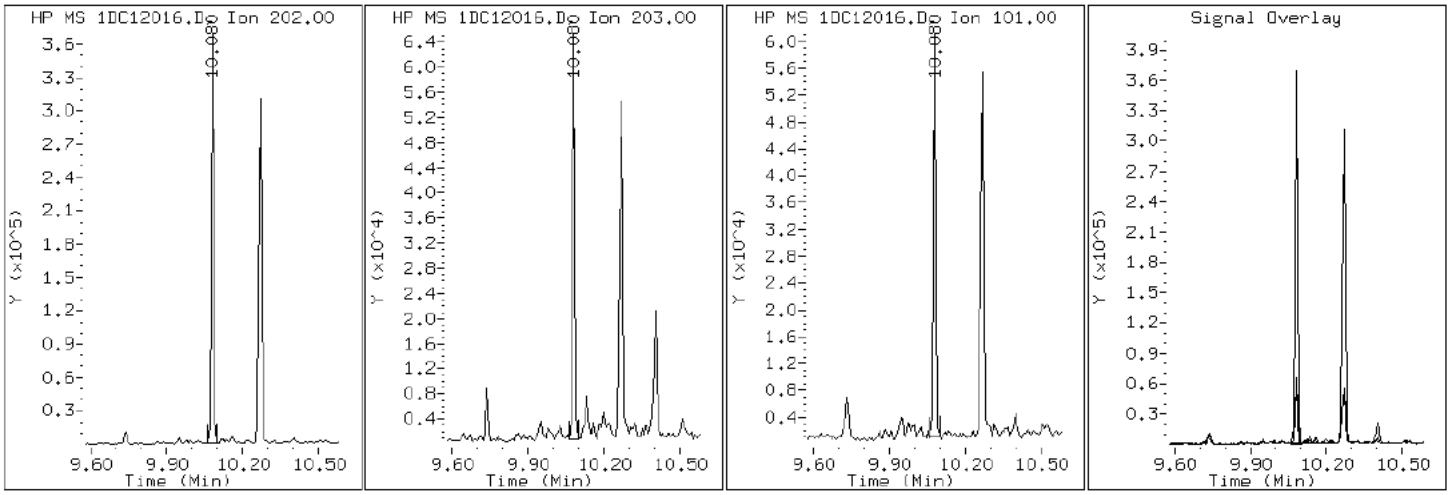
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

14 Fluoranthene



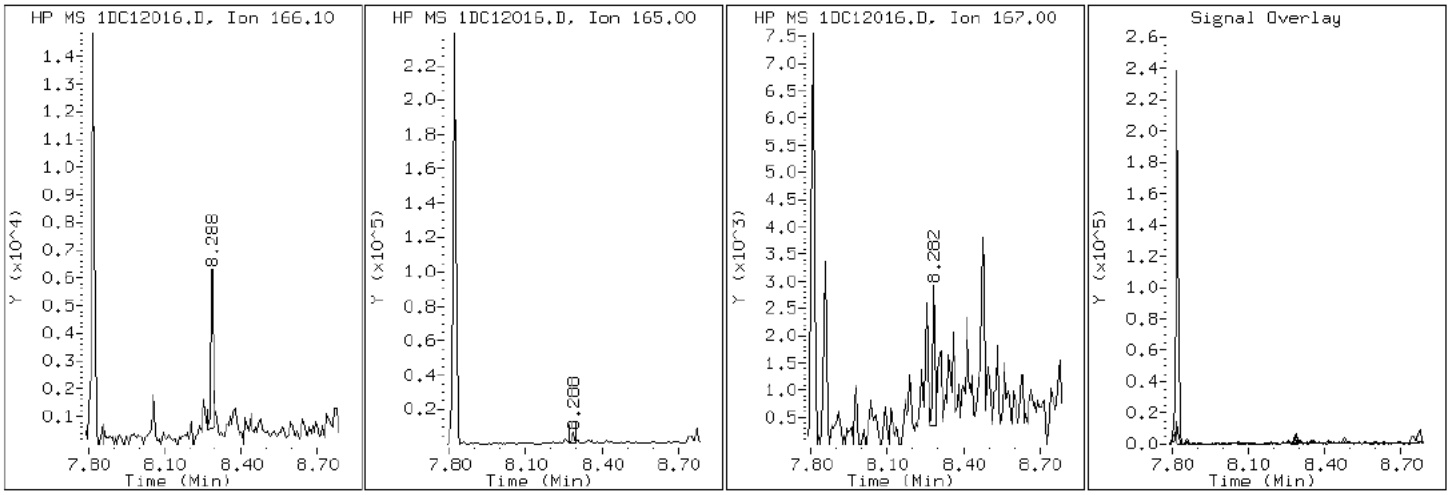
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

8 Fluorene



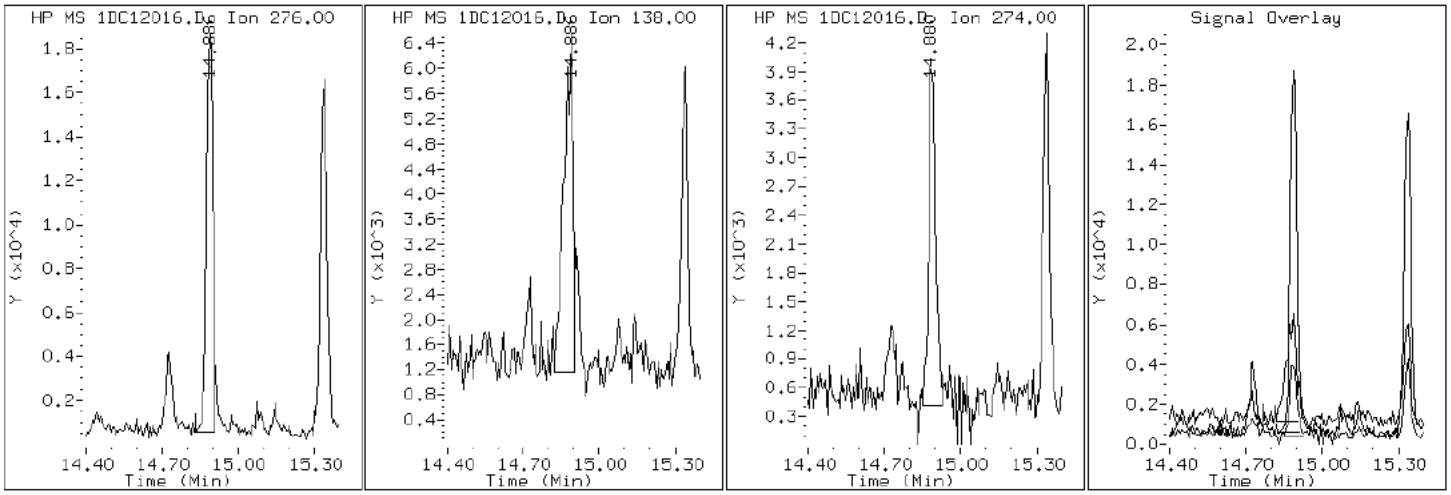
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

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



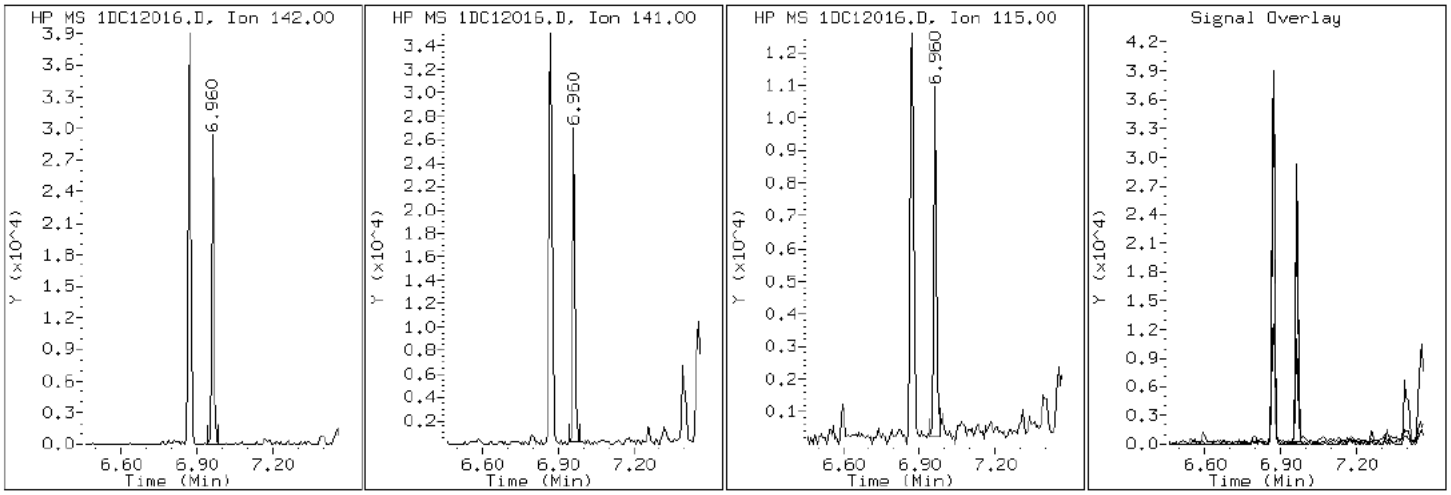
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

4 1-Methylnaphthalene



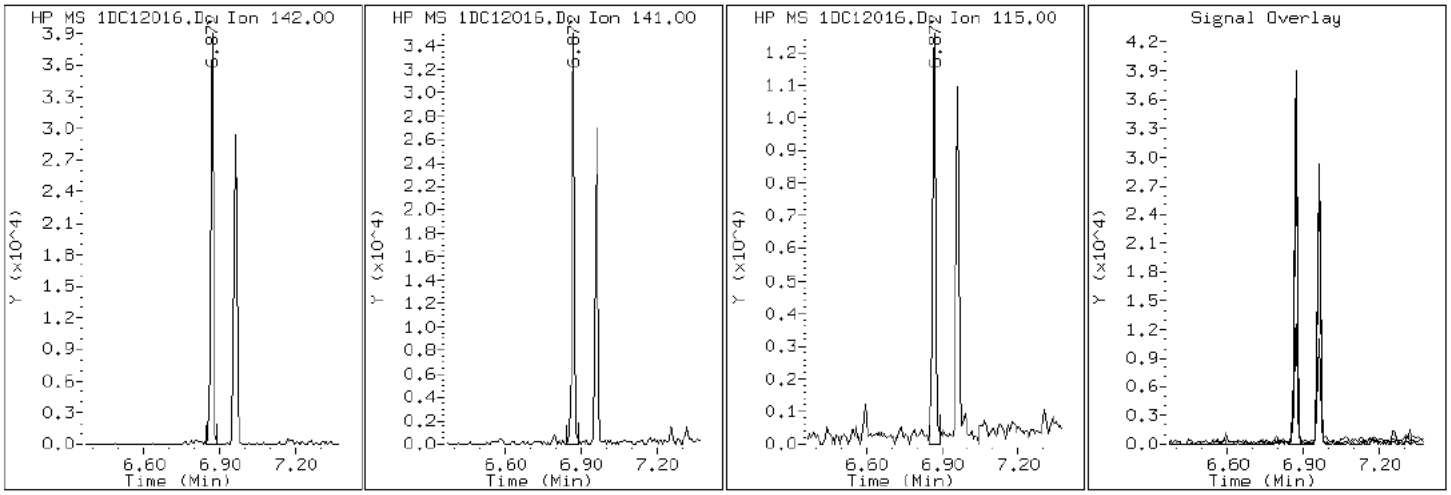
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

3 2-Methylnaphthalene



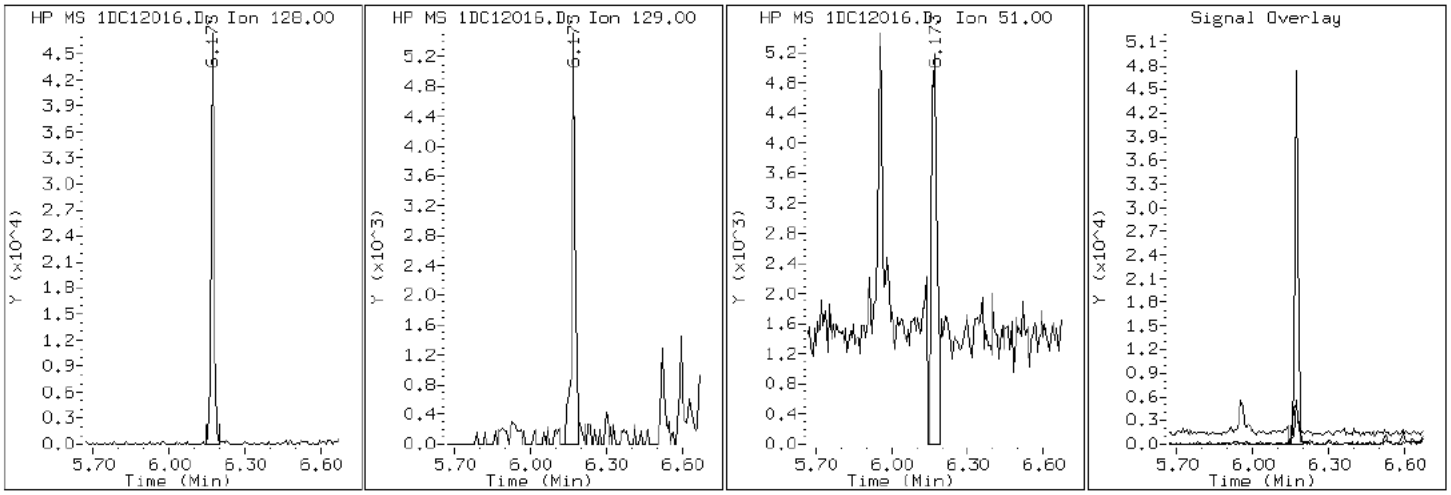
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

2 Naphthalene



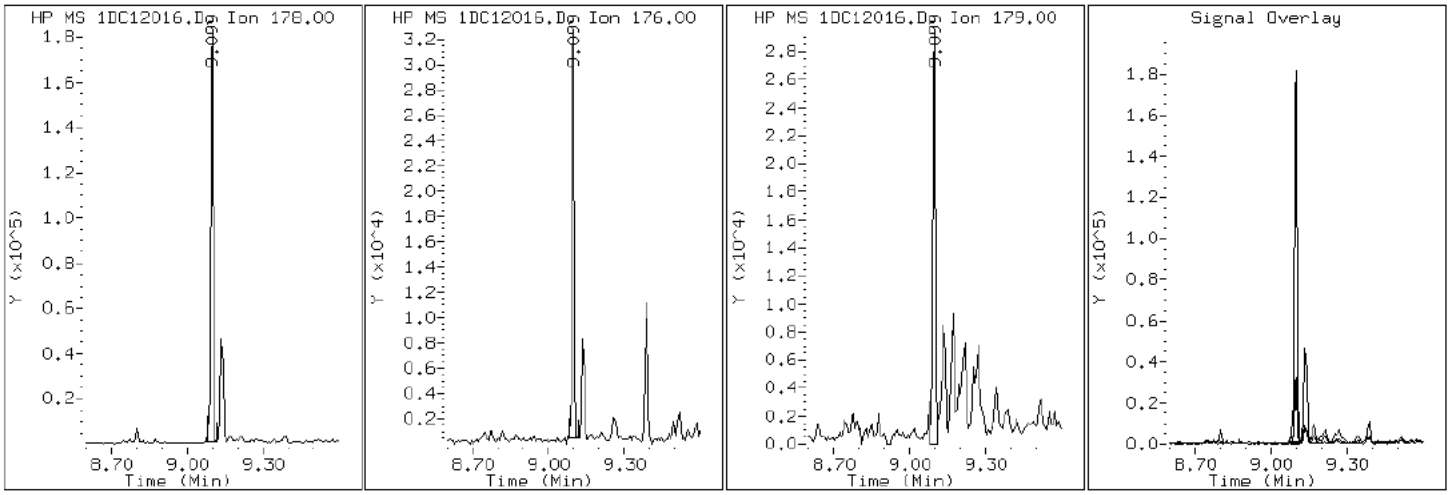
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

10 Phenanthrene



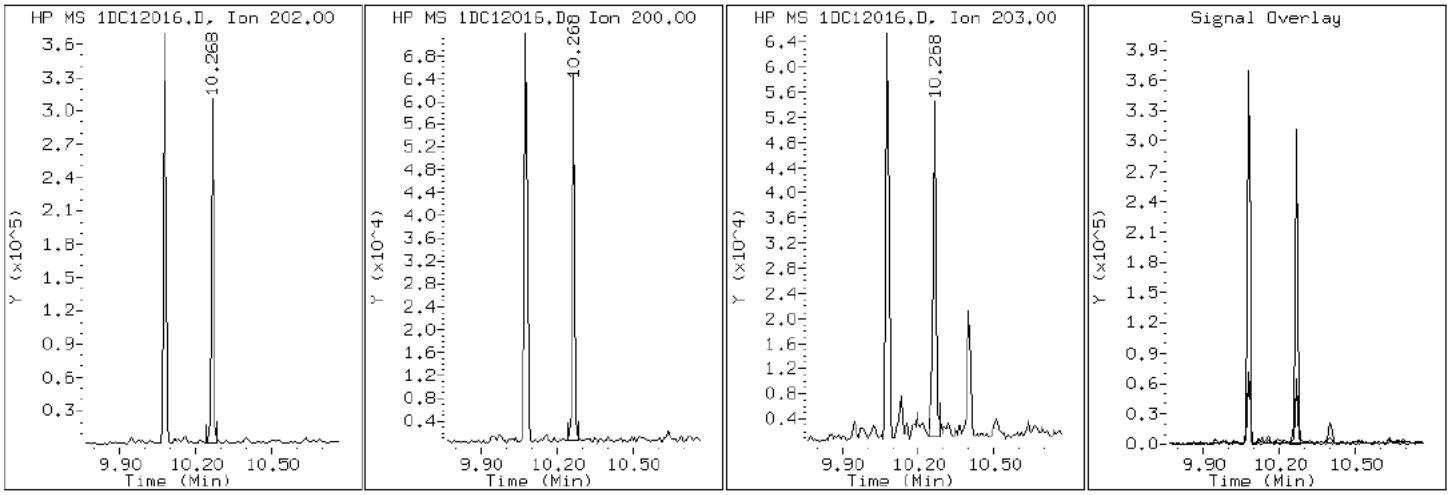
Data File: 1DC12016.D

Date: 12-MAR-2013 15:26

Client ID: CV0333B-CS-SP Instrument: BSMSD.i

Sample Info: 680-88065-A-6-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12016.D
Inj. Date and Time: 12-MAR-2013 15:26
Instrument ID: BSMSD.i
Client ID: CV0333B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

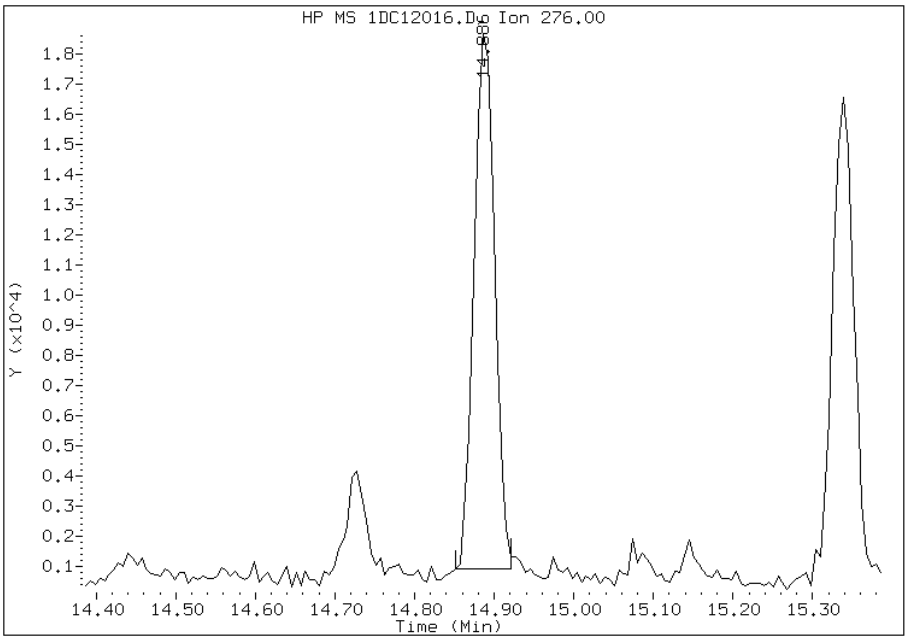
Processing Integration Results

RT: 14.89

Response: 31800

Amount: 1

Conc: 77



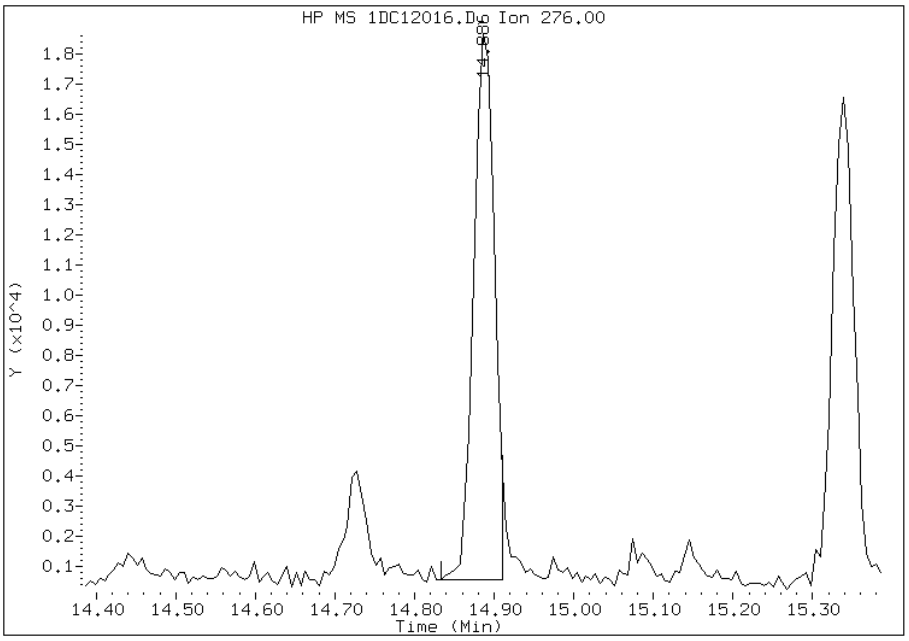
Manual Integration Results

RT: 14.89

Response: 32643

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: FM0144A-CS | Lab Sample ID: 680-88065-7

Matrix: Solid | Lab File ID: 1DC12017.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 12:55

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.16(g) | Date Analyzed: 03/12/2013 15:49

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

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

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	J	480	96
208-96-8	Acenaphthylene	50	J	190	24
120-12-7	Anthracene	240		40	20
56-55-3	Benzo[a]anthracene	840		39	19
50-32-8	Benzo[a]pyrene	770		50	25
205-99-2	Benzo[b]fluoranthene	1400		59	29
191-24-2	Benzo[g,h,i]perylene	280		96	21
207-08-9	Benzo[k]fluoranthene	460		39	17
218-01-9	Chrysene	850		43	22
53-70-3	Dibenz(a,h)anthracene	87	J	96	20
206-44-0	Fluoranthene	1700		96	19
86-73-7	Fluorene	98		96	20
193-39-5	Indeno[1,2,3-cd]pyrene	300		96	34
90-12-0	1-Methylnaphthalene	86	J	190	21
91-57-6	2-Methylnaphthalene	82	J	190	34
91-20-3	Naphthalene	70	J	190	21
85-01-8	Phenanthrene	1200		39	19
129-00-0	Pyrene	1600		96	18

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12017.D
Lab Smp Id: 680-88065-A-7-A Client Smp ID: FM0144A-CS
Inj Date : 12-MAR-2013 15:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-7-A
Misc Info : 680-88065-A-7-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 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	15.160	Weight Extracted
M	18.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.151	6.149	(1.000)	2303373	40.0000	
* 6 Acenaphthene-d10	164	7.820	7.818	(1.000)	1450591	40.0000	
* 9 Phenanthrene-d10	188	9.077	9.075	(1.000)	2497077	40.0000	
$ 13 o-Terphenyl	230	9.383	9.386	(1.034)	59081	1.53001	490
* 17 Chrysene-d12	240	11.416	11.414	(1.000)	2100354	40.0000	
* 22 Perylene-d12	264	13.272	13.282	(1.000)	1255407	40.0000	
2 Naphthalene	128	6.175	6.173	(1.004)	13520	0.21942	71
3 2-Methylnaphthalene	142	6.868	6.872	(1.117)	10035	0.25567	82
4 1-Methylnaphthalene	142	6.962	6.960	(1.132)	9786	0.26625	86
5 Acenaphthylene	152	7.691	7.688	(0.983)	9970	0.15590	50
7 Acenaphthene	154	7.843	7.847	(1.003)	12913	0.33116	110
8 Fluorene	166	8.284	8.288	(1.059)	13837	0.30371	98
10 Phenanthrene	178	9.095	9.099	(1.002)	269665	3.80433	1200
11 Anthracene	178	9.136	9.140	(1.006)	52690	0.74294	240

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.271	9.275	(1.021)	36899	0.58200	190
14 Fluoranthene	202	10.082	10.080	(1.111)	388482	5.25171	1700
15 Pyrene	202	10.270	10.268	(0.900)	314970	4.83446	1600
16 Benzo(a)anthracene	228	11.398	11.396	(0.998)	150291	2.61362	840
18 Chrysene	228	11.439	11.443	(1.002)	157721	2.65676	850
19 Benzo(b)fluoranthene	252	12.726	12.730	(0.959)	141796	4.38808	1400
20 Benzo(k)fluoranthene	252	12.755	12.765	(0.961)	48075	1.42092	460(Q)
21 Benzo(a)pyrene	252	13.178	13.188	(0.993)	76714	2.39902	770
23 Indeno(1,2,3-cd)pyrene	276	14.882	14.898	(1.121)	31825	0.93258	300(M)
24 Dibenzo(a,h)anthracene	278	14.912	14.927	(1.123)	8560	0.27161	87
25 Benzo(g,h,i)perylene	276	15.335	15.356	(1.155)	28049	0.86207	280

QC Flag Legend

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

Data File: 1DC12017.D

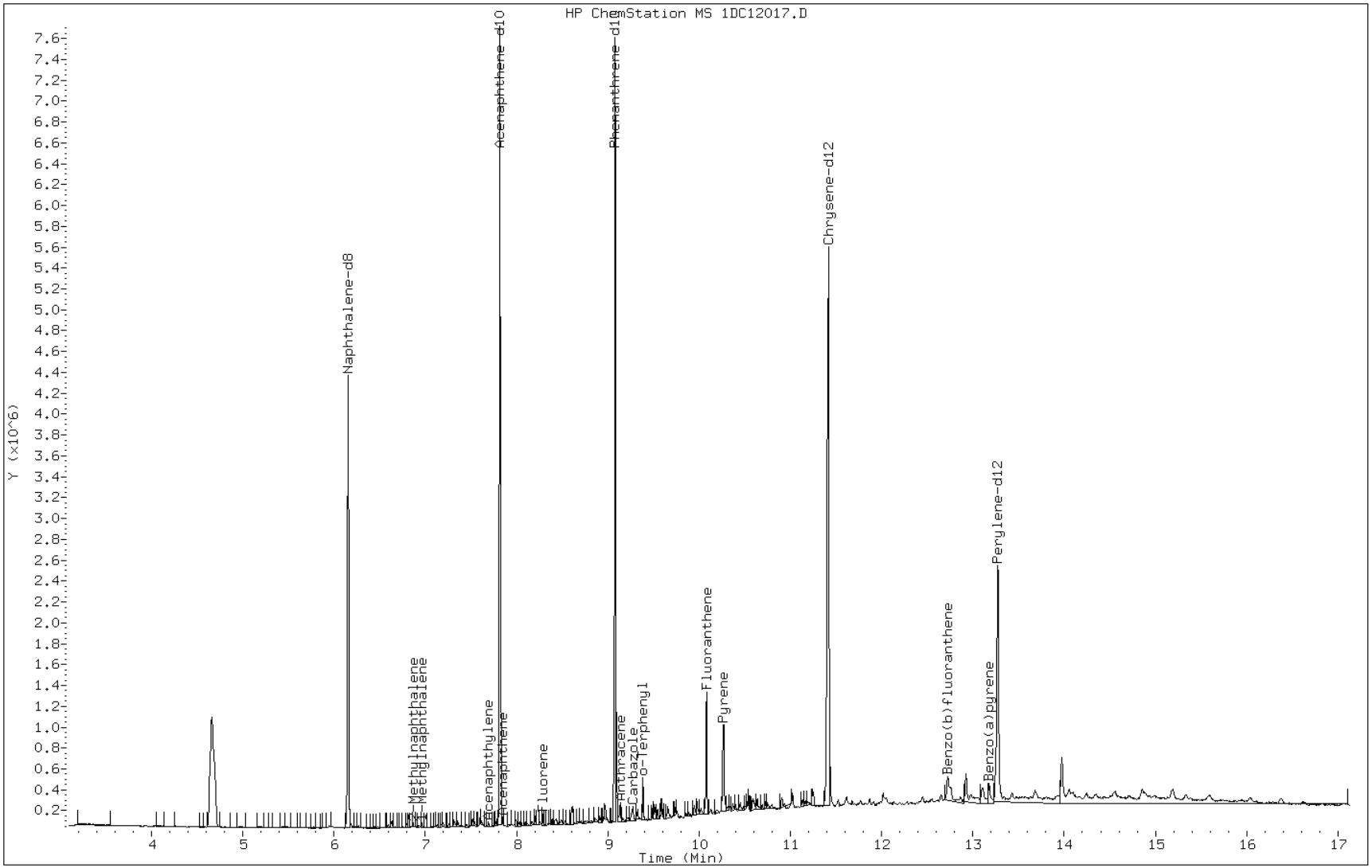
Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A

Operator: SCC



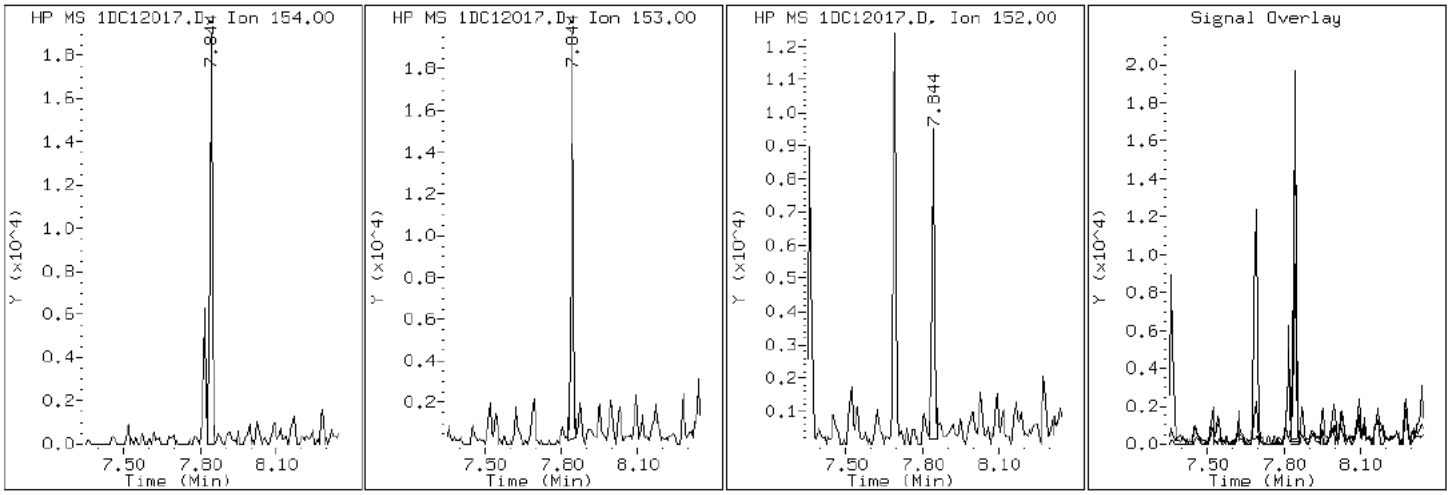
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

7 Acenaphthene



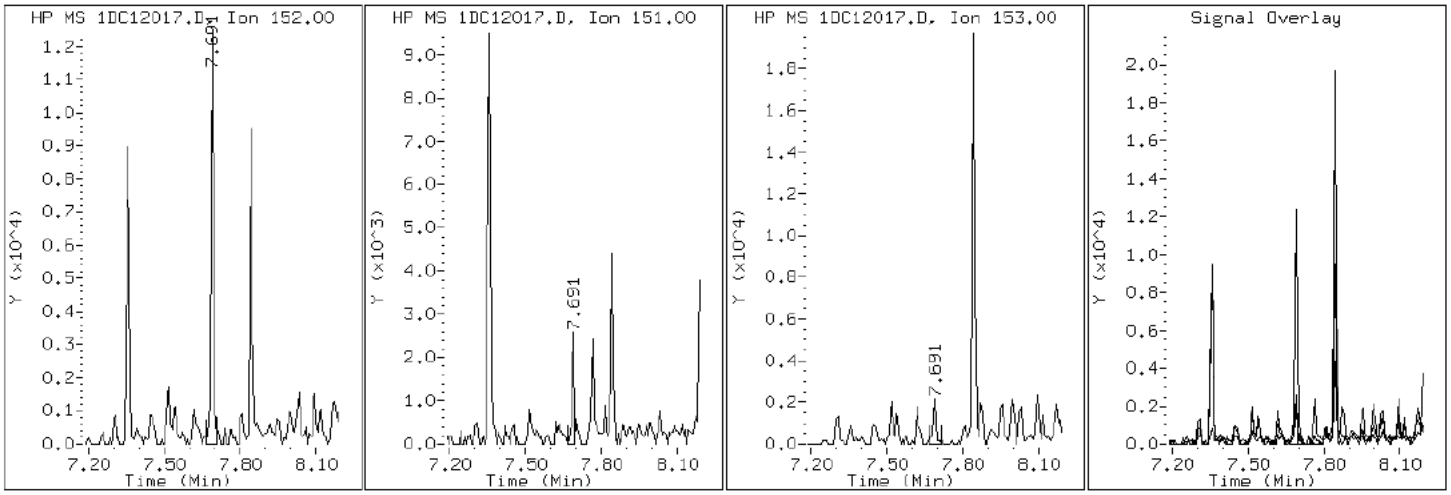
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

5 Acenaphthylene



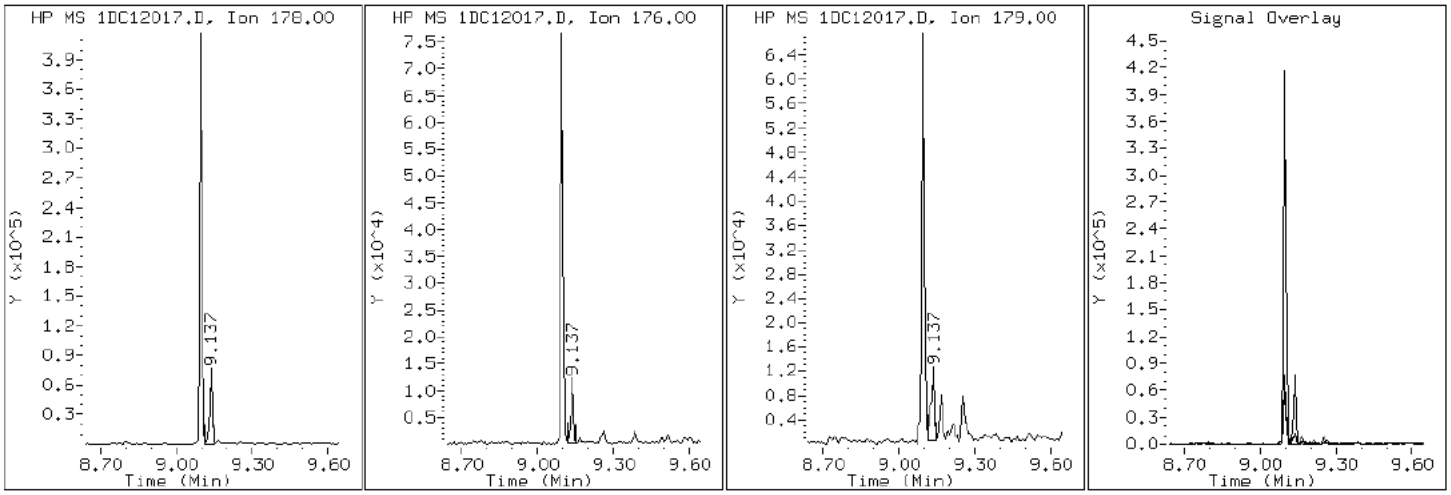
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

11 Anthracene



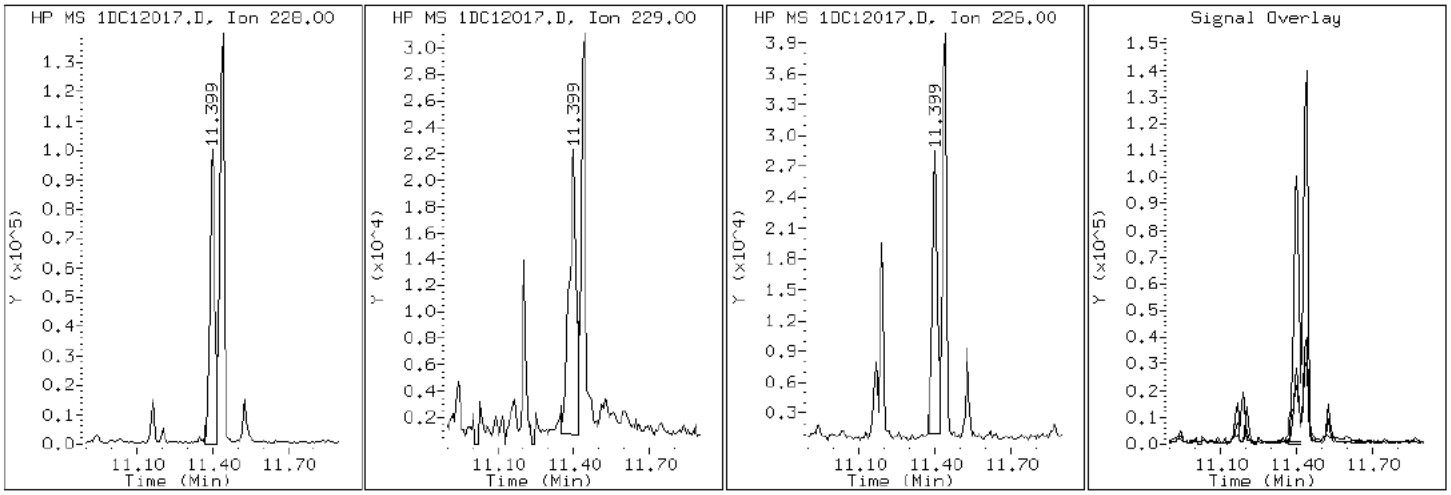
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

16 Benzo(a)anthracene



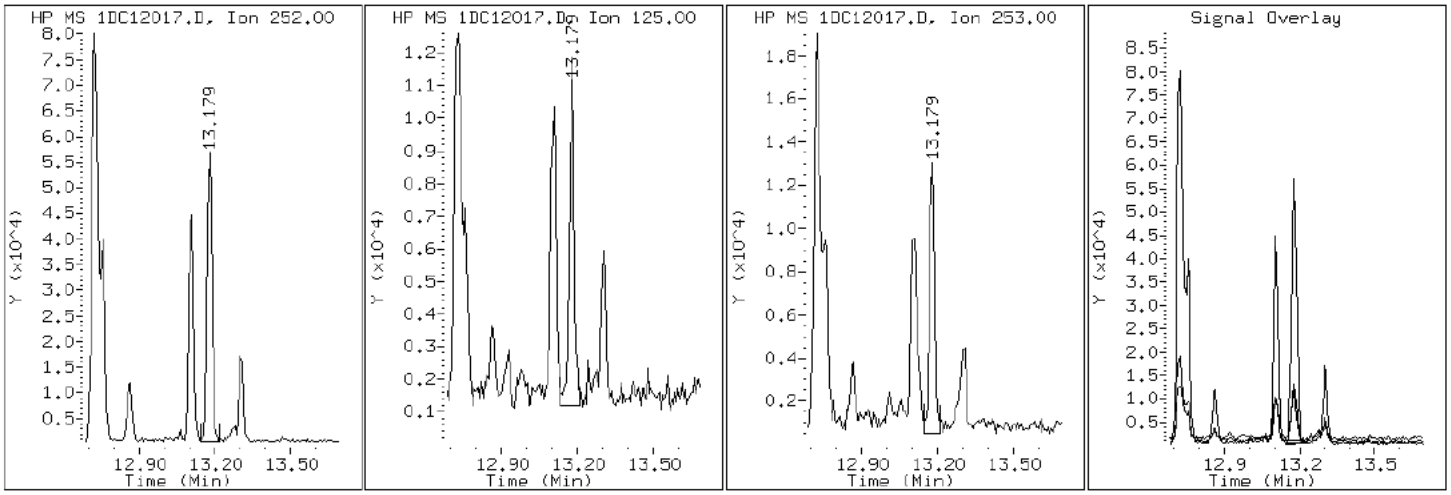
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

21 Benzo(a)pyrene



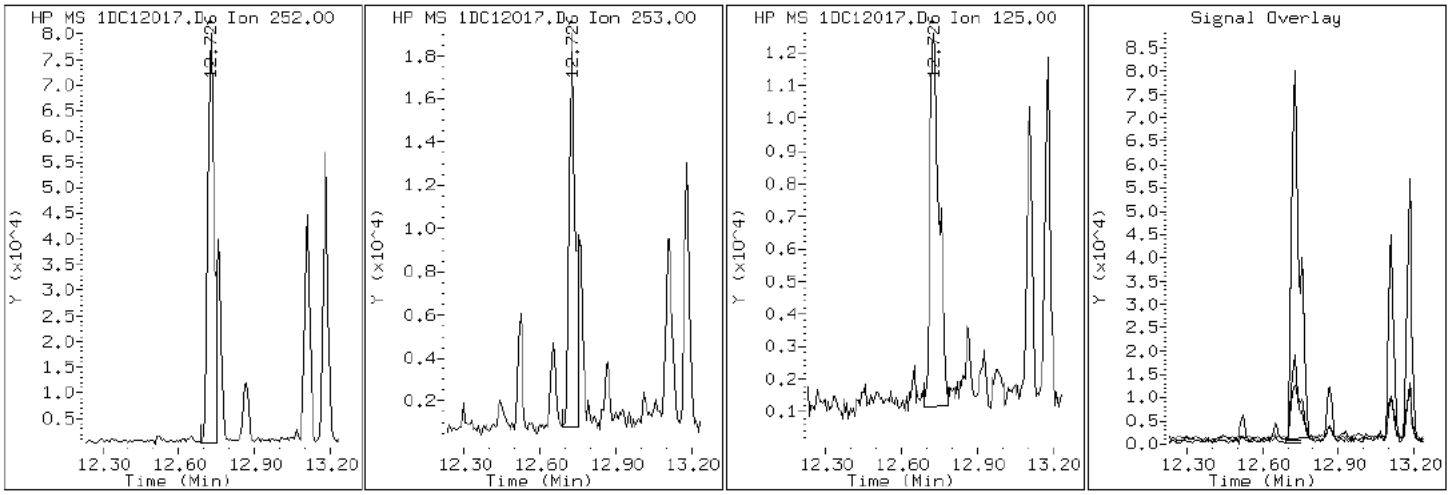
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

19 Benzo(b)fluoranthene



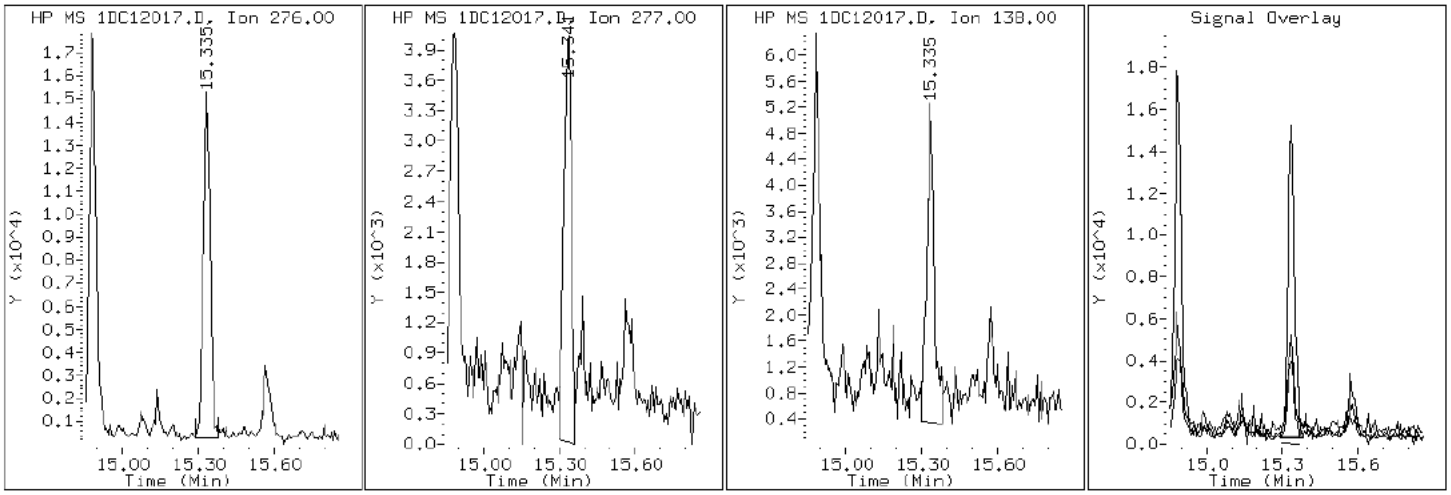
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

25 Benzo(g,h,i)perylene



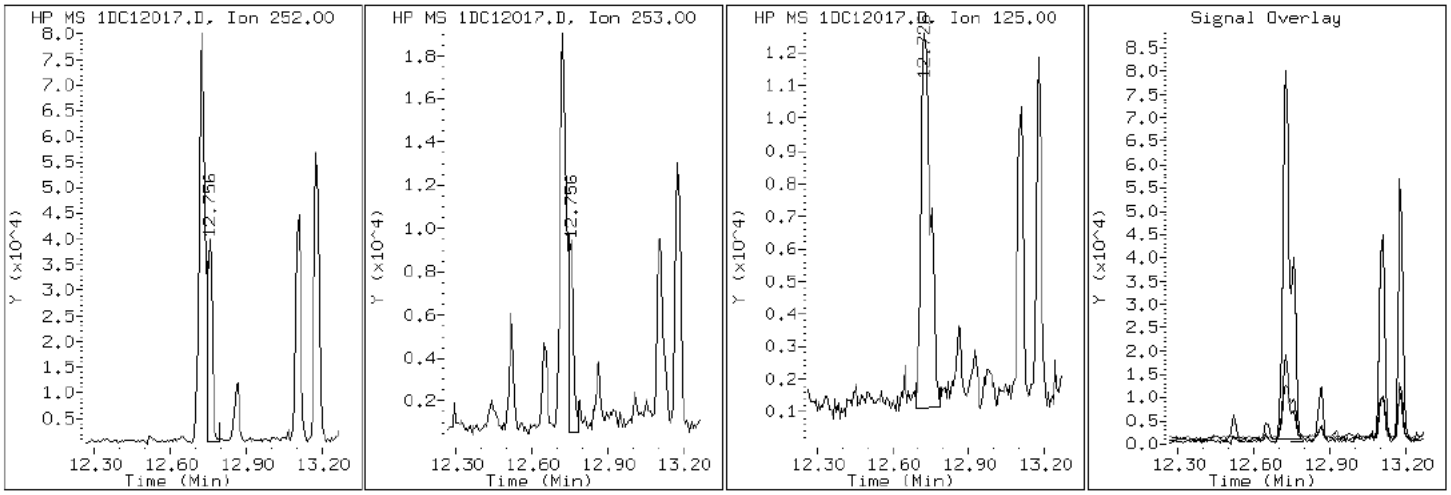
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

20 Benzo(k)fluoranthene



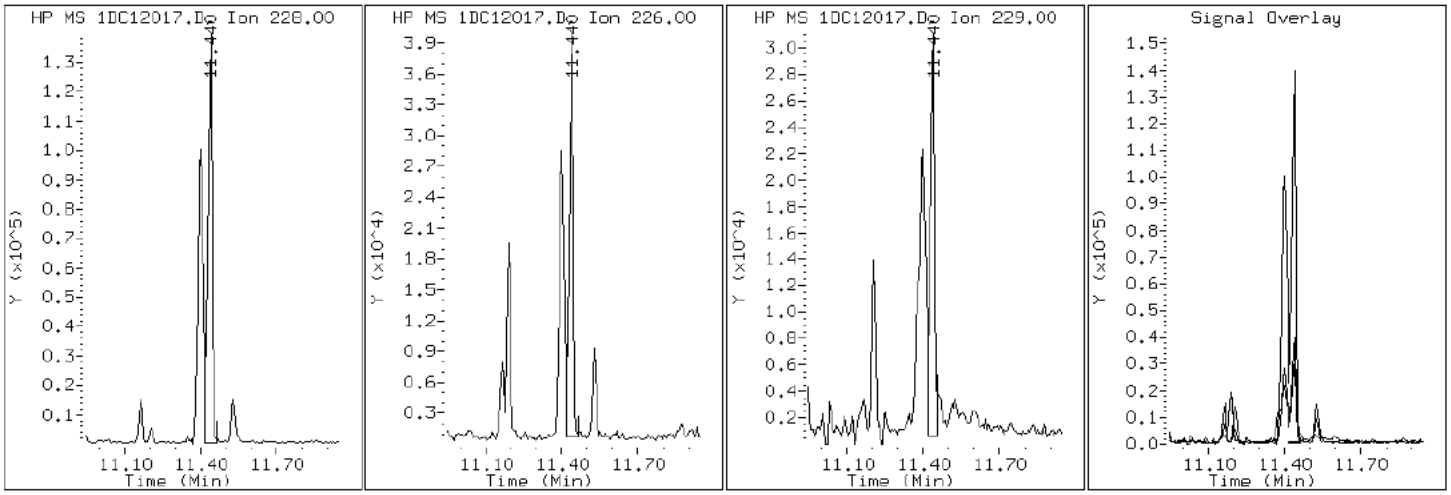
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

18 Chrysene



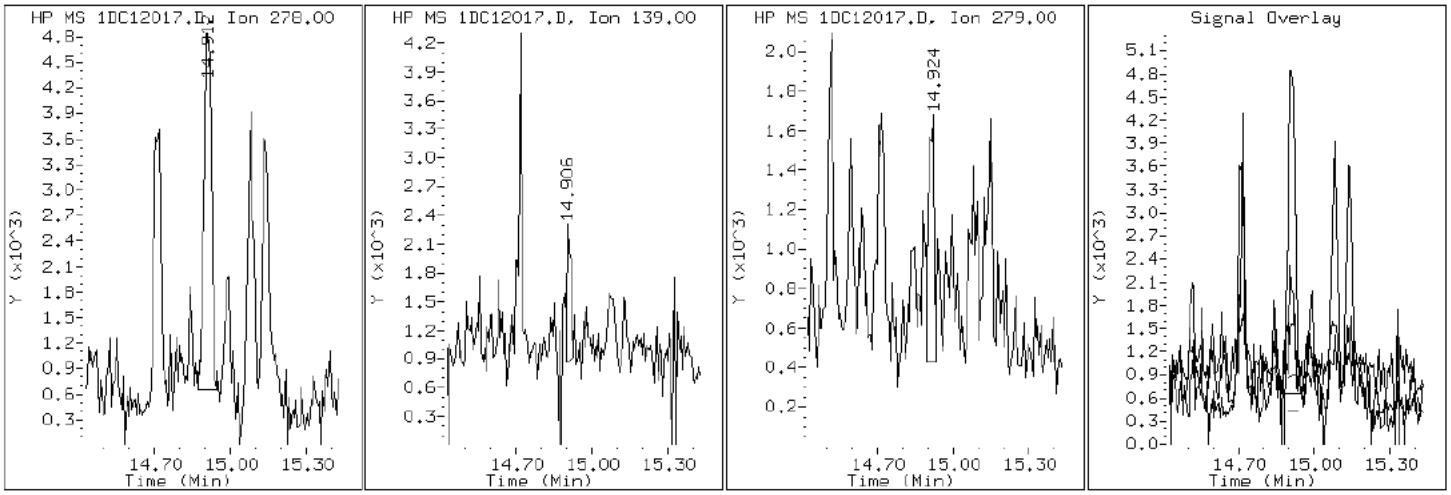
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

24 Dibenzo(a,h)anthracene



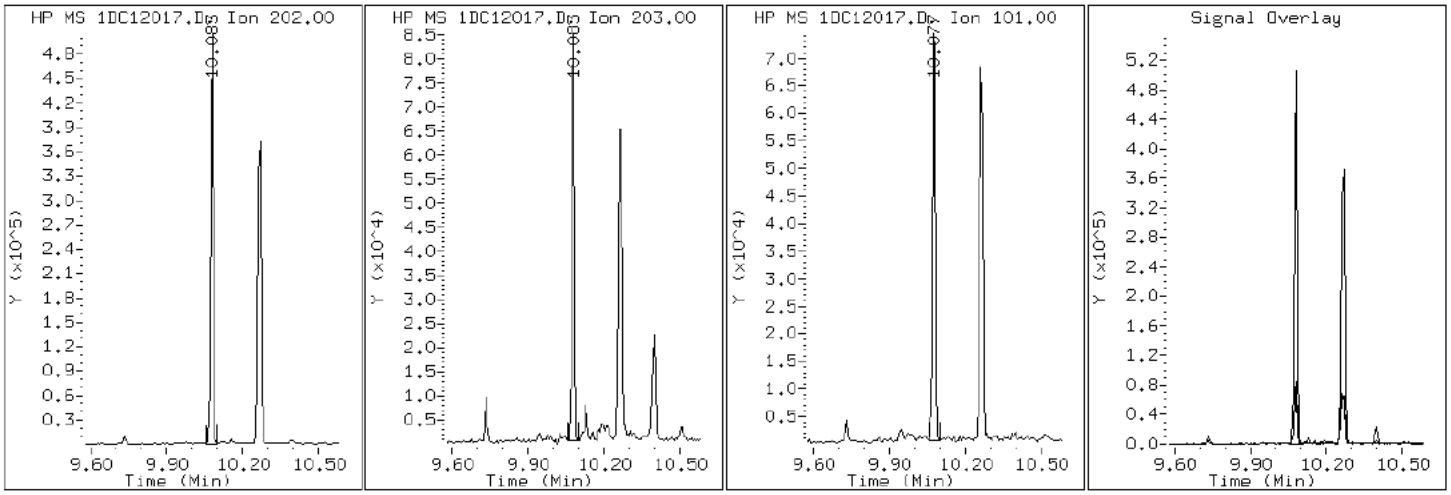
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

14 Fluoranthene



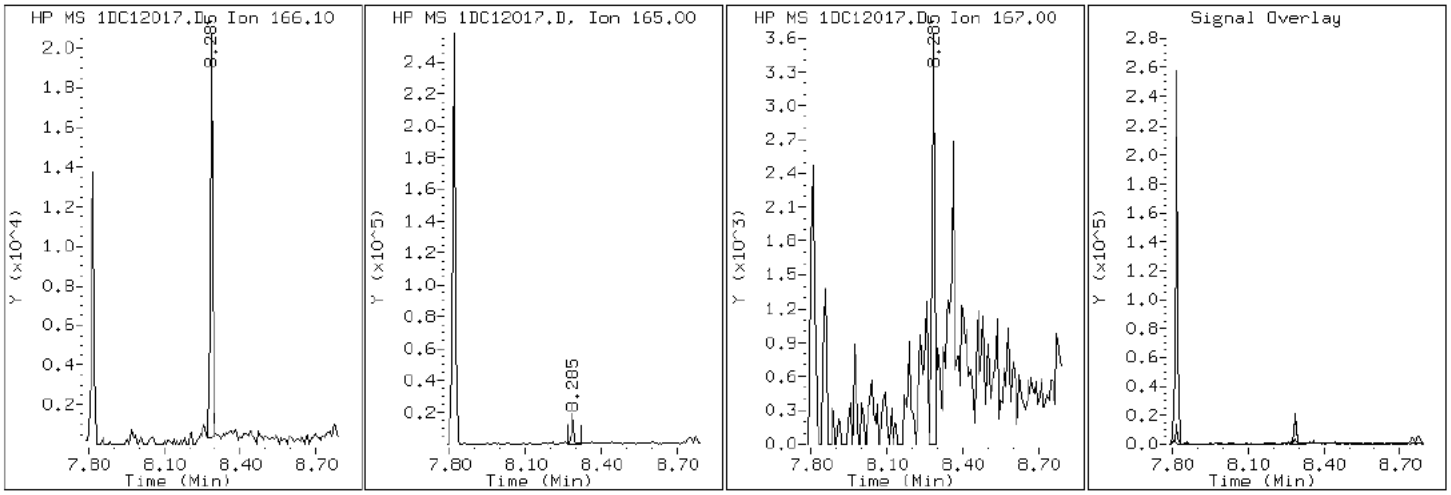
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

8 Fluorene



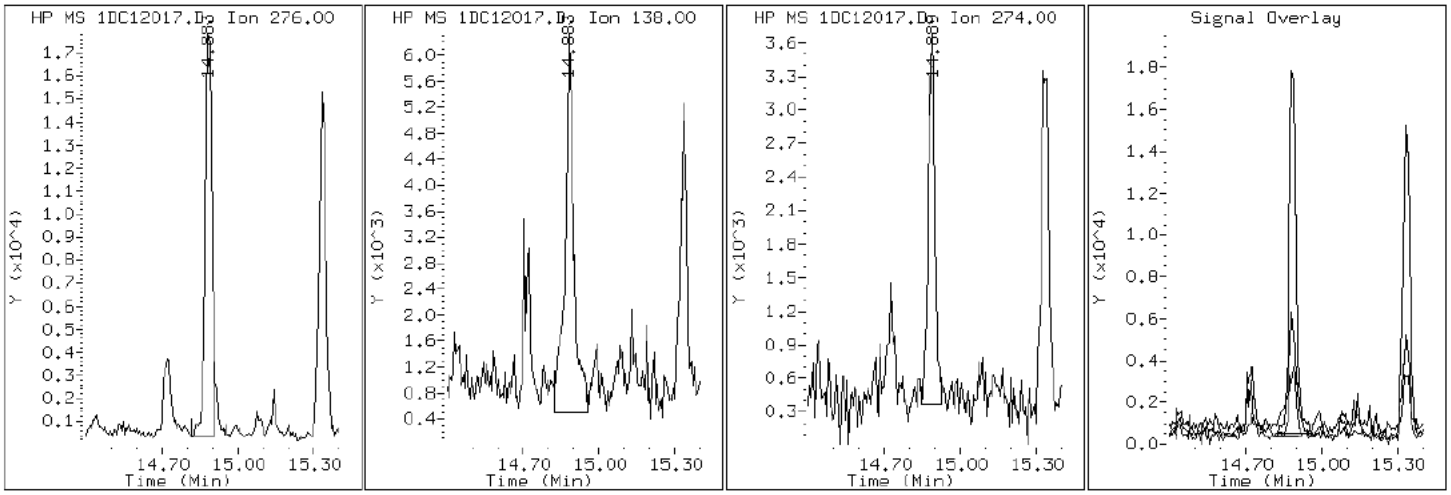
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS | Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A | Operator: SCC

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



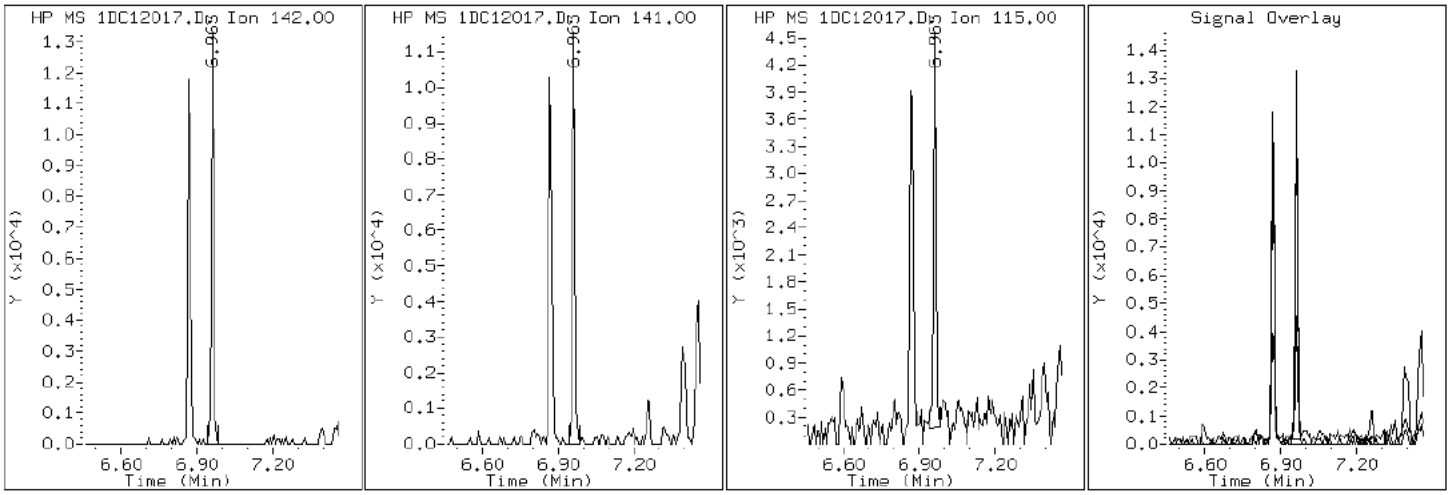
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

4 1-Methylnaphthalene



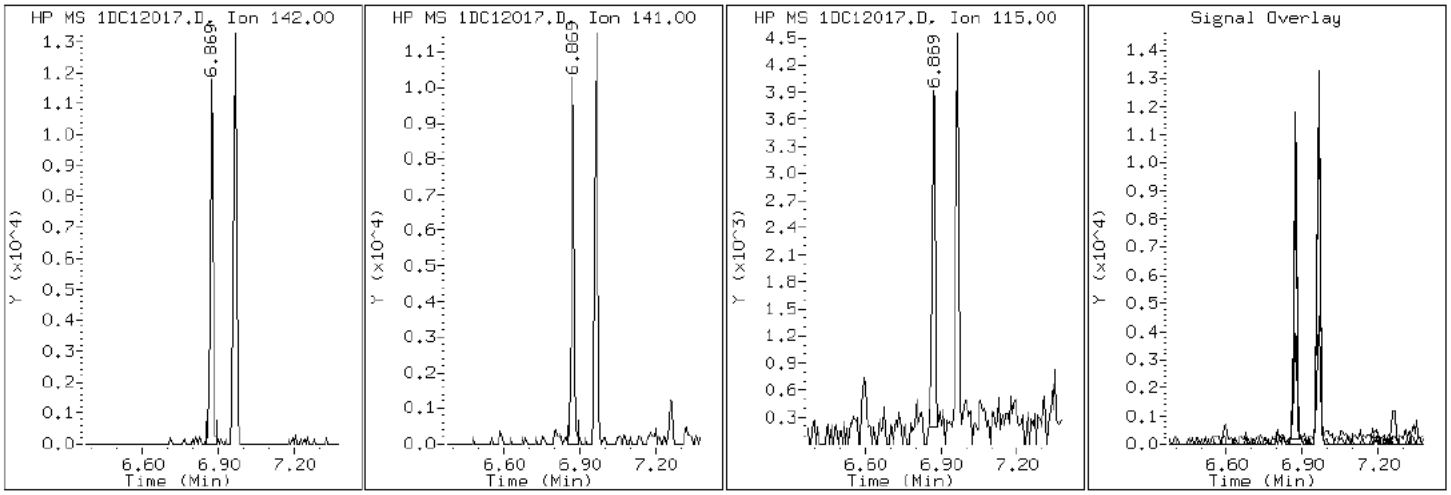
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

3 2-Methylnaphthalene



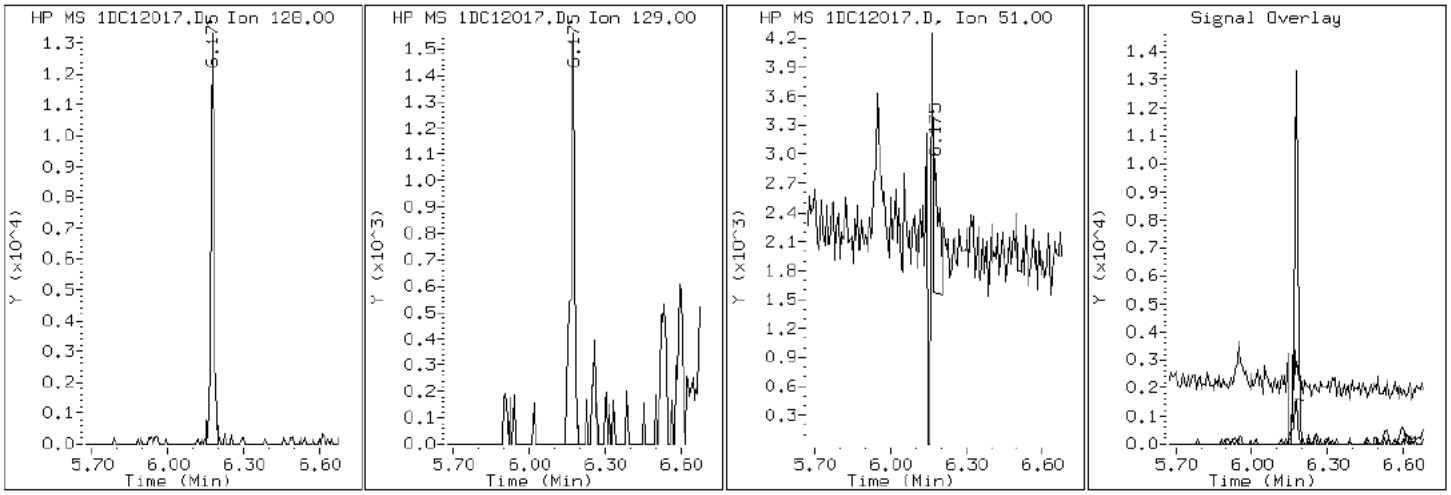
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

2 Naphthalene



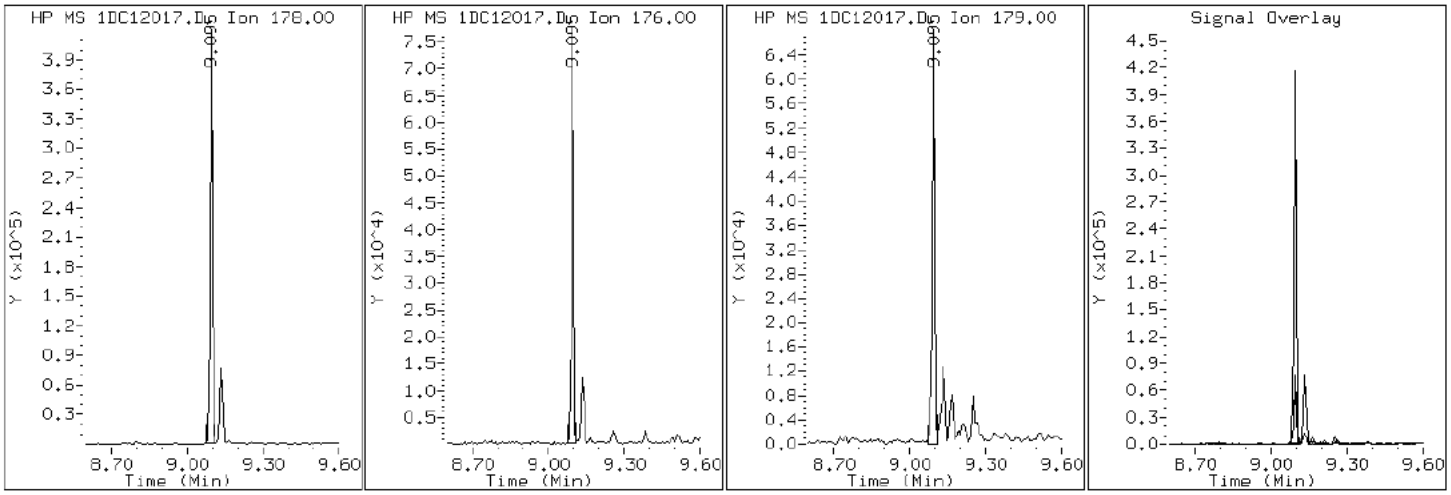
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

10 Phenanthrene



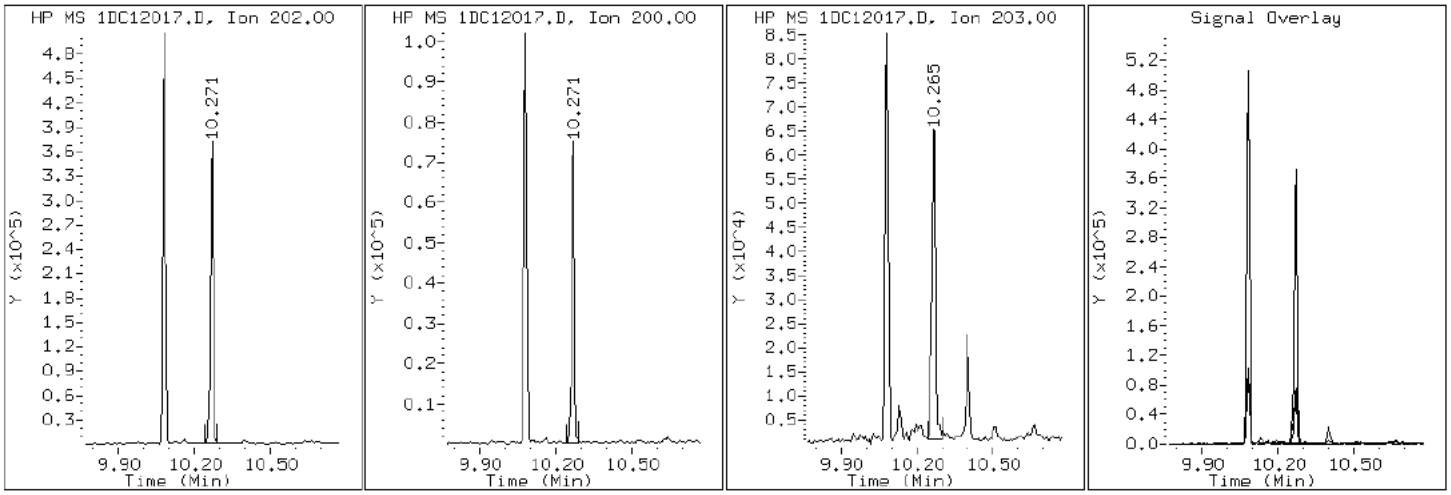
Data File: 1DC12017.D

Date: 12-MAR-2013 15:49

Client ID: FM0144A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-7-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12017.D
Inj. Date and Time: 12-MAR-2013 15:49
Instrument ID: BSMSD.i
Client ID: FM0144A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

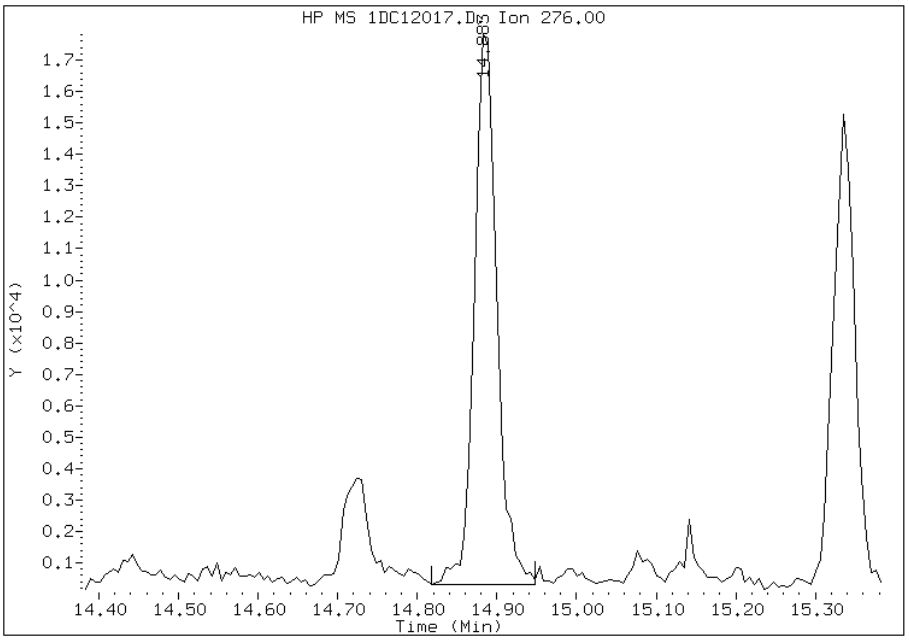
Processing Integration Results

RT: 14.88

Response: 34258

Amount: 1

Conc: 323



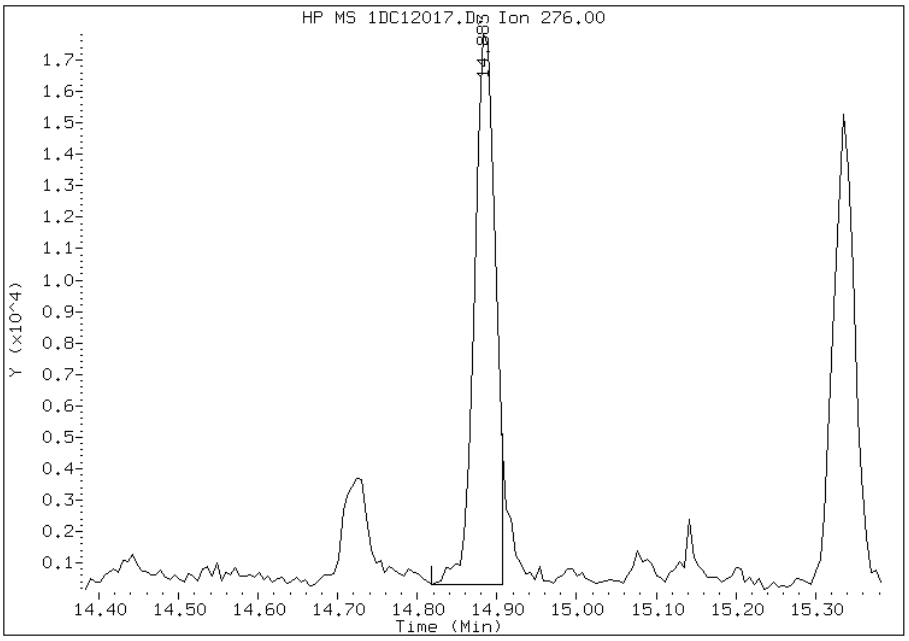
Manual Integration Results

RT: 14.88

Response: 31825

Amount: 1

Conc: 300



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: FM0134A-CS | Lab Sample ID: 680-88065-8

Matrix: Solid | Lab File ID: 1DC12018.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:20

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.48(g) | Date Analyzed: 03/12/2013 16:12

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

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

% Moisture: 35.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | 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	15		13	6.3
56-55-3	Benzo[a]anthracene	74		12	5.8
50-32-8	Benzo[a]pyrene	56		16	7.8
205-99-2	Benzo[b]fluoranthene	110		18	9.1
191-24-2	Benzo[g,h,i]perylene	25	J	30	6.6
207-08-9	Benzo[k]fluoranthene	36		12	5.4
218-01-9	Chrysene	78		13	6.7
53-70-3	Dibenz(a,h)anthracene	9.3	J	30	6.1
206-44-0	Fluoranthene	120		30	6.0
86-73-7	Fluorene	7.2	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	25	J	30	11
90-12-0	1-Methylnaphthalene	43	J	60	6.6
91-57-6	2-Methylnaphthalene	52	J	60	11
91-20-3	Naphthalene	55	J	60	6.6
85-01-8	Phenanthrene	93		12	5.8
129-00-0	Pyrene	110		30	5.5

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12018.D
Lab Smp Id: 680-88065-A-8-A Client Smp ID: FM0134A-CS
Inj Date : 12-MAR-2013 16:12
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-8-A
Misc Info : 680-88065-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 18
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	15.480	Weight Extracted
M	35.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.154	6.149	(1.000)	2292745	40.0000	
* 6 Acenaphthene-d10	164	7.816	7.818	(1.000)	1436363	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2436145	40.0000	
$ 13 o-Terphenyl	230	9.385	9.386	(1.034)	280132	7.43596	740
* 17 Chrysene-d12	240	11.412	11.414	(1.000)	2133879	40.0000	
* 22 Perylene-d12	264	13.275	13.282	(1.000)	1352641	40.0000	
2 Naphthalene	128	6.171	6.173	(1.003)	33806	0.55119	55
3 2-Methylnaphthalene	142	6.870	6.872	(1.116)	20618	0.52773	52
4 1-Methylnaphthalene	142	6.964	6.960	(1.132)	15953	0.43604	43
5 Acenaphthylene	152	7.687	7.688	(0.983)	4017	0.06343	6.3
8 Fluorene	166	8.286	8.288	(1.060)	3280	0.07271	7.2
10 Phenanthrene	178	9.097	9.099	(1.002)	64976	0.93958	93
11 Anthracene	178	9.133	9.140	(1.006)	10519	0.15203	15
12 Carbazole	167	9.274	9.275	(1.021)	8904	0.14395	14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.078	10.080	(1.110)	90357	1.25205	120
15 Pyrene	202	10.266	10.268	(0.900)	72505	1.09539	110
16 Benzo(a)anthracene	228	11.400	11.396	(0.999)	43202	0.73950	73
18 Chrysene	228	11.436	11.443	(1.002)	47184	0.78231	78
19 Benzo(b)fluoranthene	252	12.722	12.730	(0.958)	39101	1.12305	110
20 Benzo(k)fluoranthene	252	12.752	12.765	(0.961)	13244	0.36330	36
21 Benzo(a)pyrene	252	13.175	13.188	(0.992)	19499	0.56594	56
23 Indeno(1,2,3-cd)pyrene	276	14.879	14.898	(1.121)	9153	0.24893	25(M)
24 Dibenzo(a,h)anthracene	278	14.902	14.927	(1.123)	3162	0.09312	9.2
25 Benzo(g,h,i)perylene	276	15.331	15.356	(1.155)	8699	0.24814	25

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC12018.D

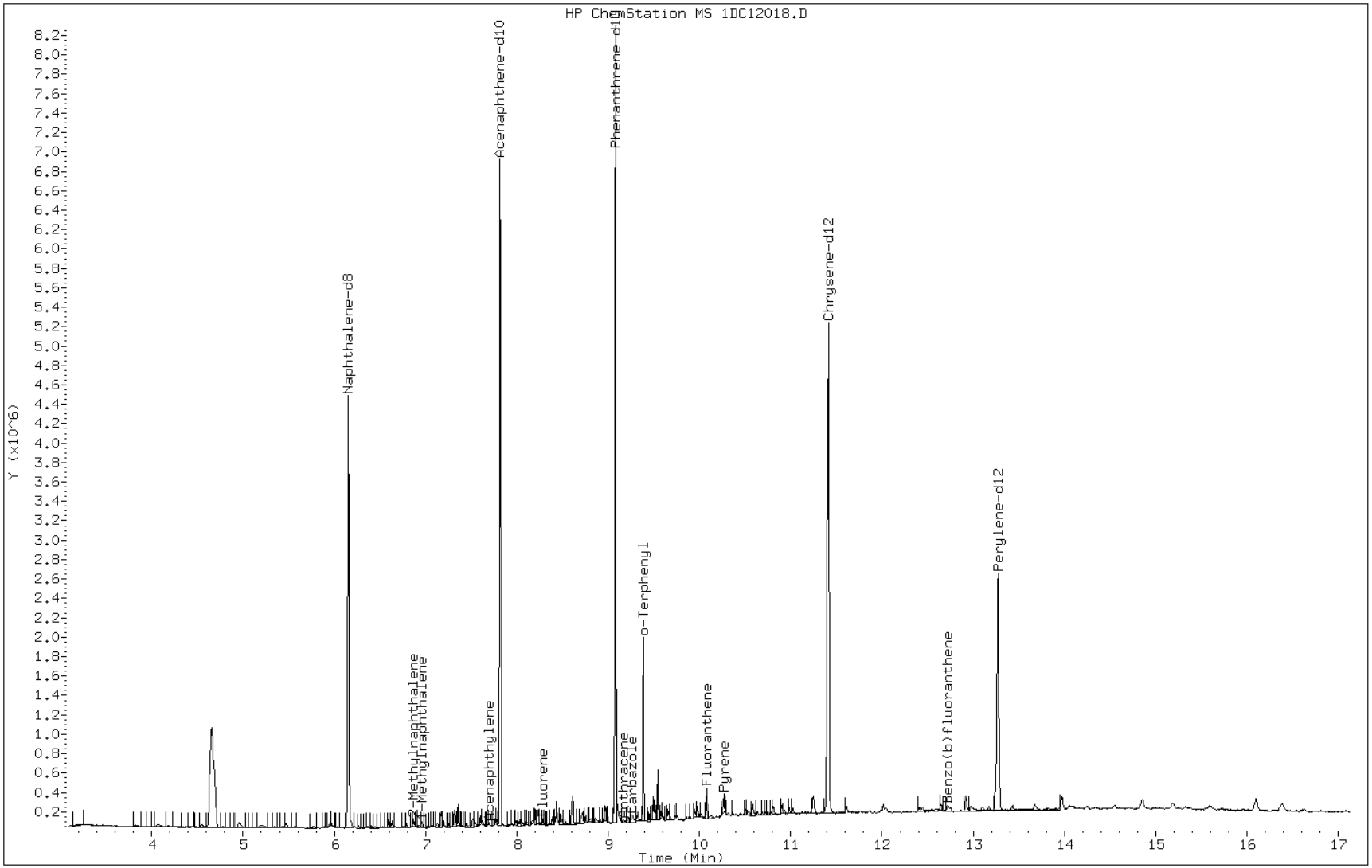
Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A

Operator: SCC



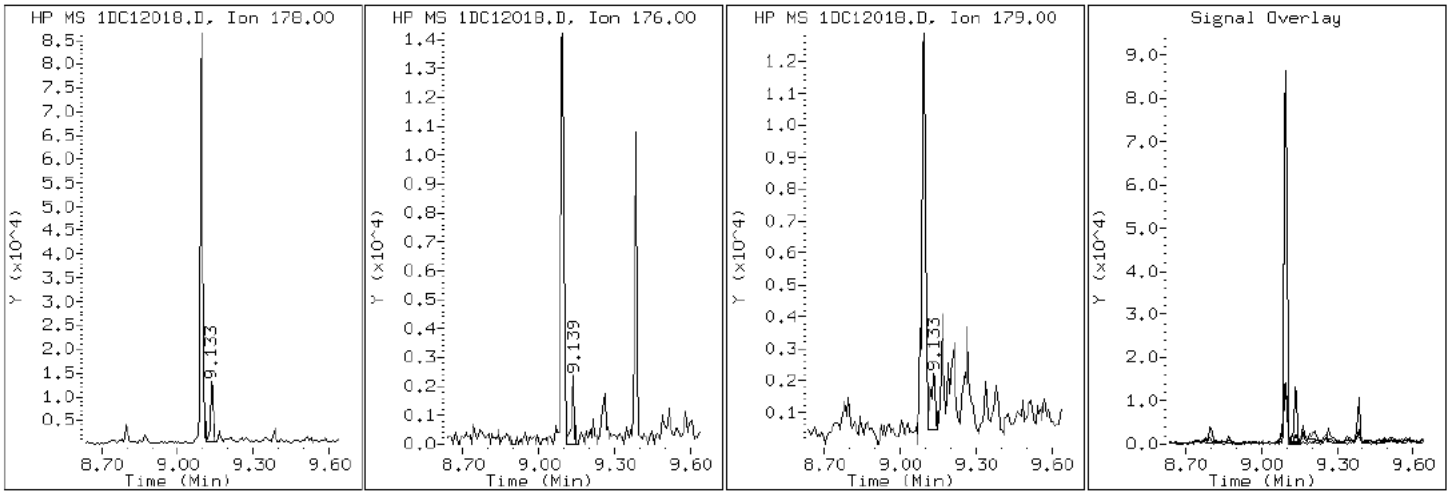
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

11 Anthracene



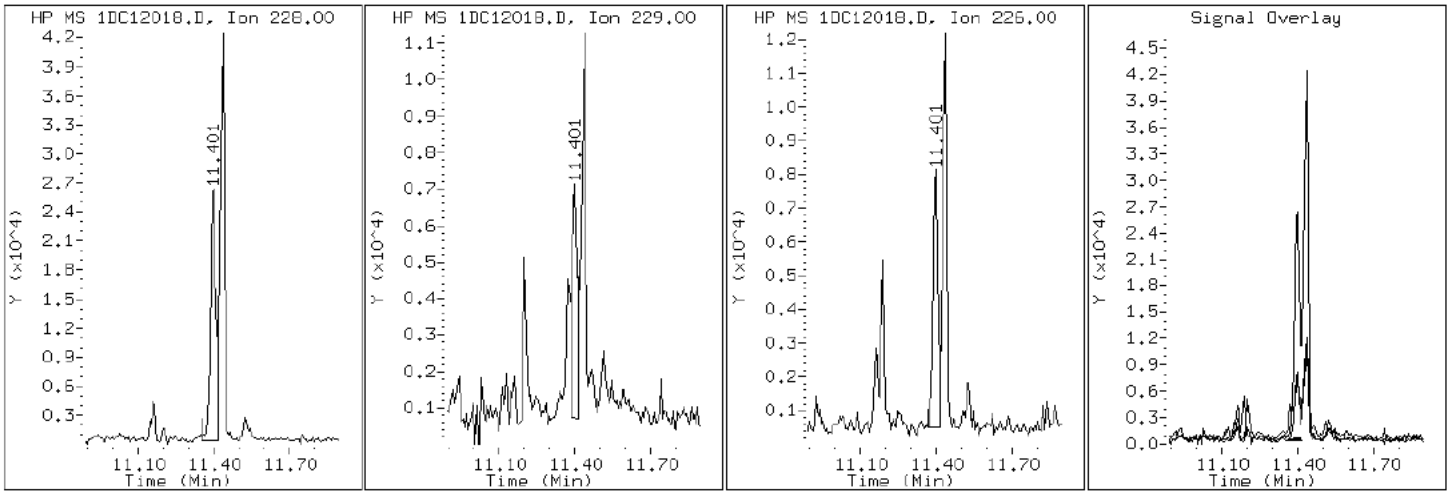
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

16 Benzo(a)anthracene



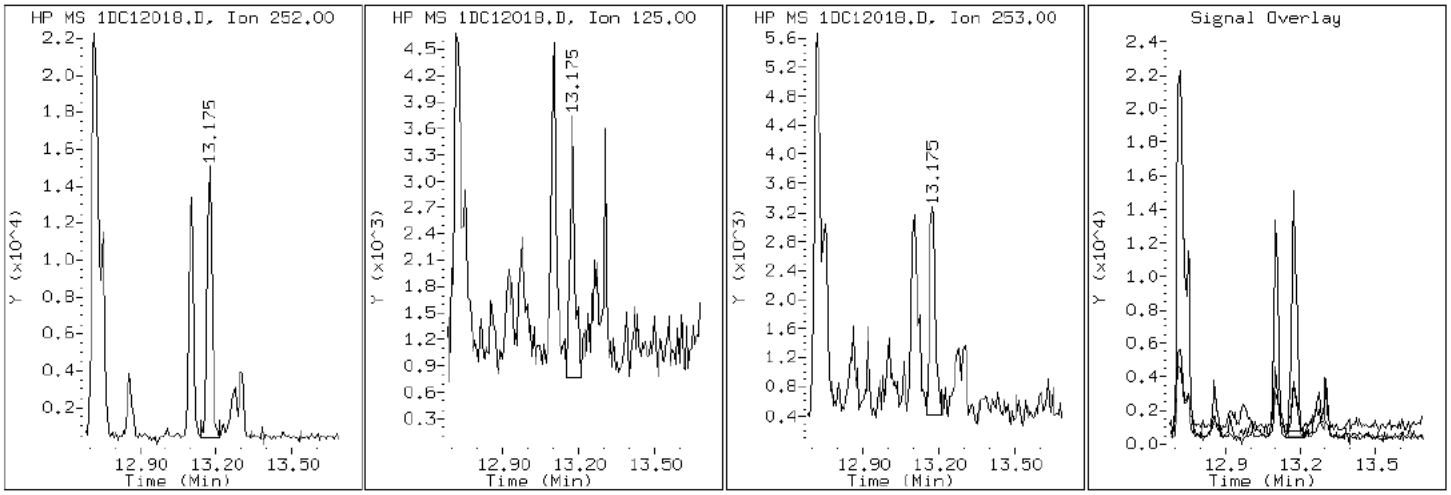
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

21 Benzo(a)pyrene



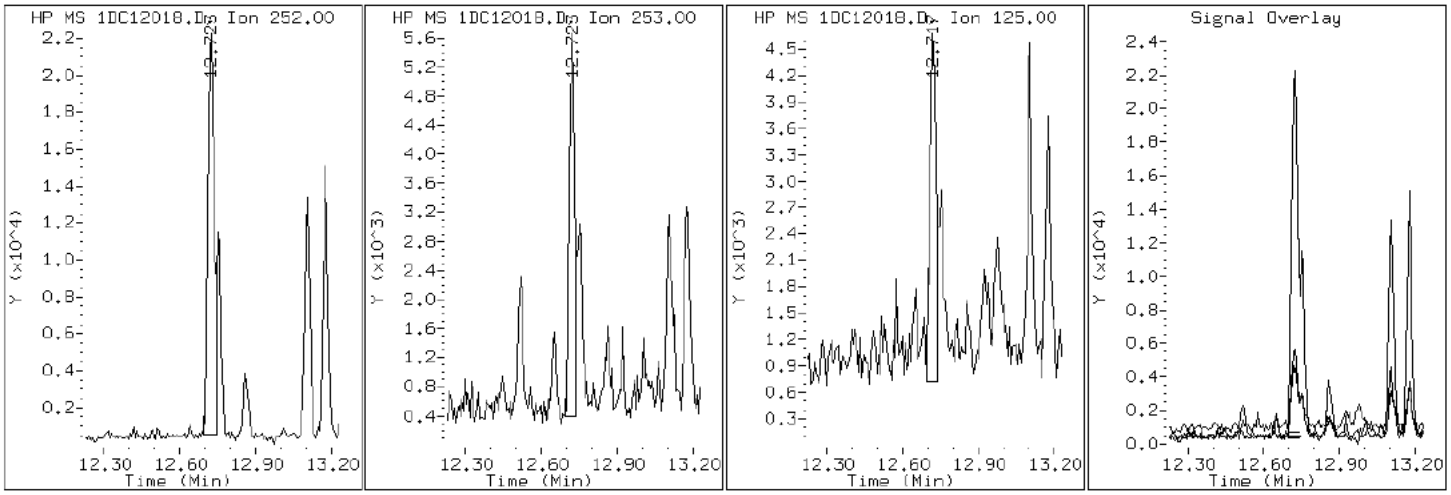
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

19 Benzo(b)fluoranthene



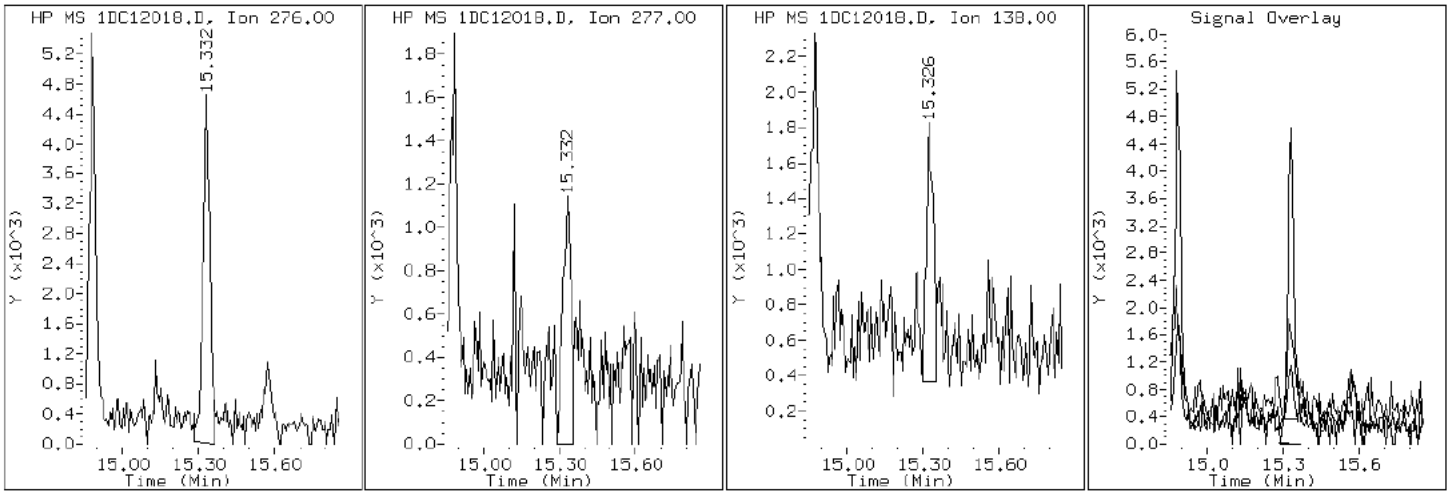
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

25 Benzo(g,h,i)perylene



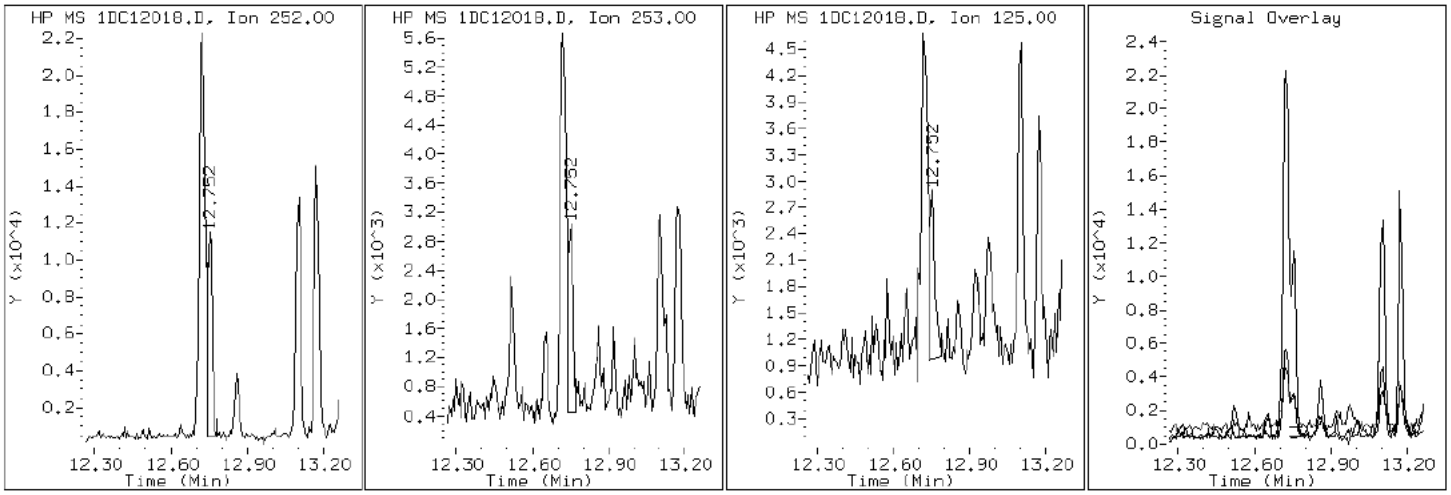
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

20 Benzo(k)fluoranthene



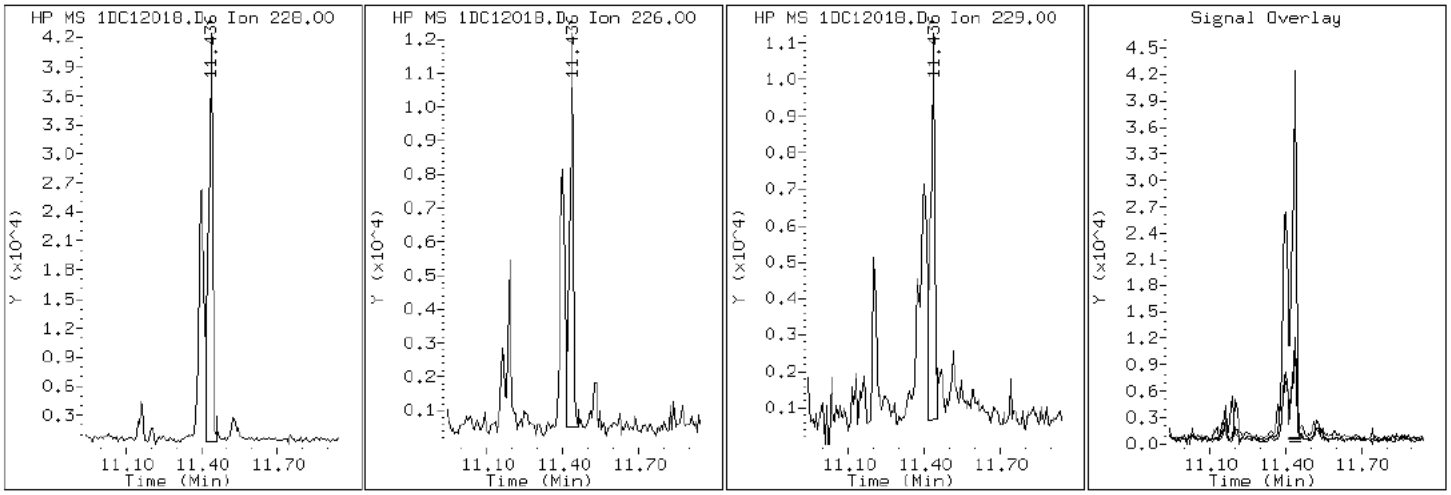
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

18 Chrysene



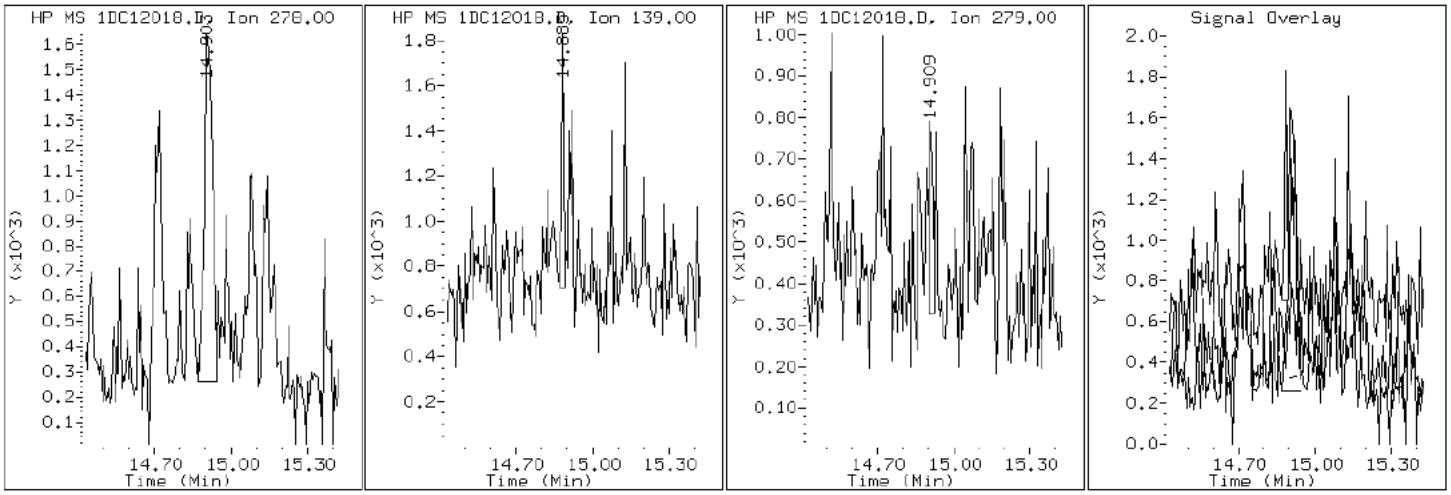
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

24 Dibenzo(a,h)anthracene



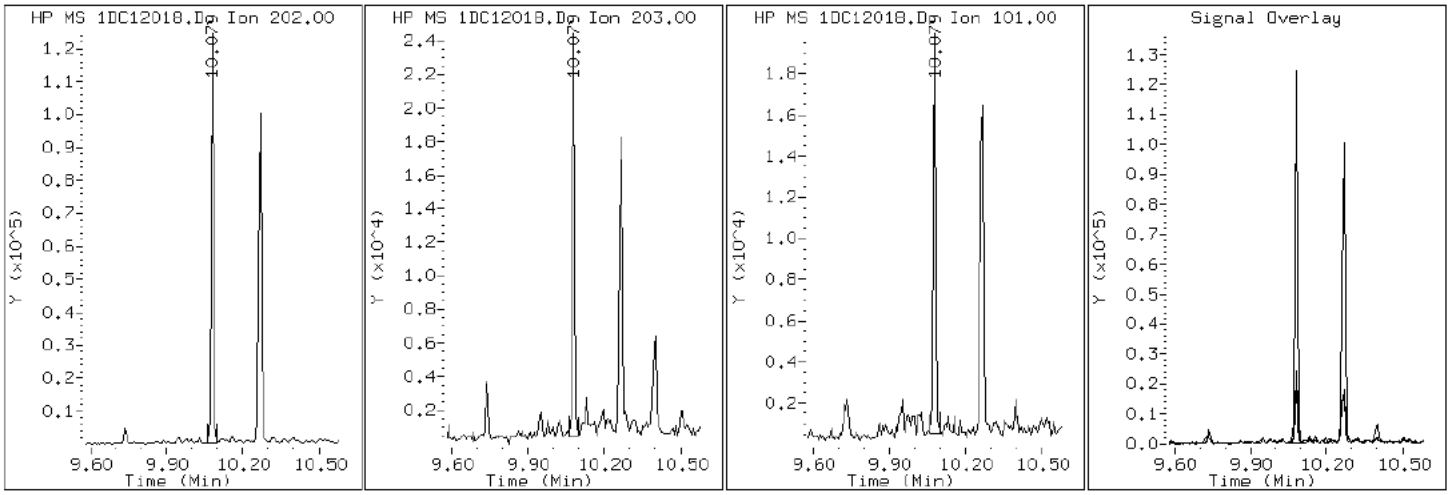
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

14 Fluoranthene



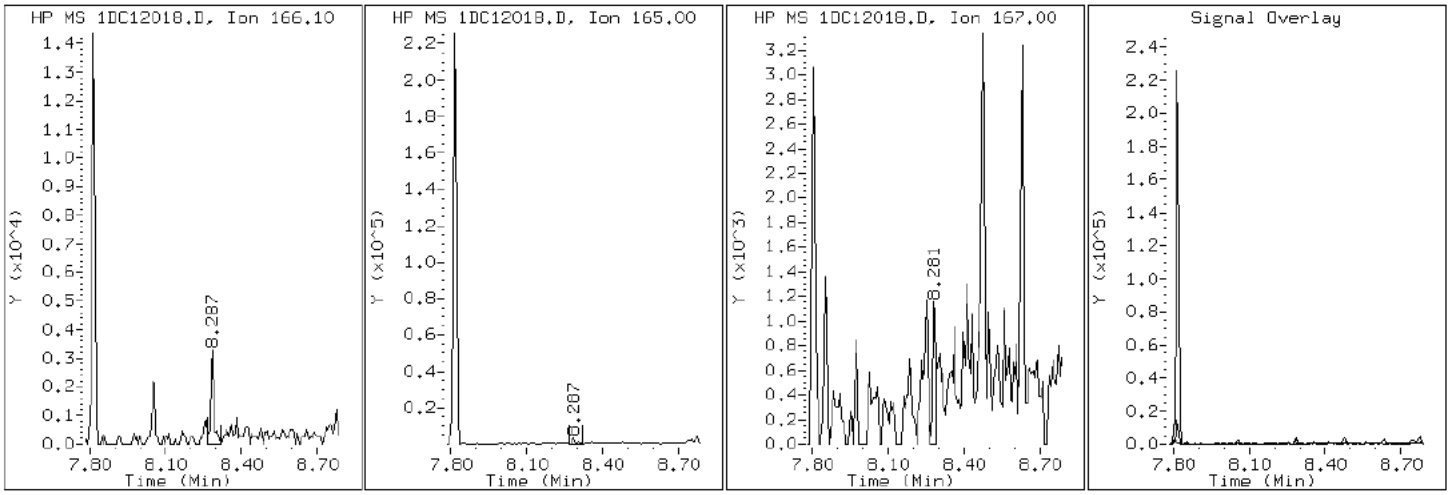
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

8 Fluorene



Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

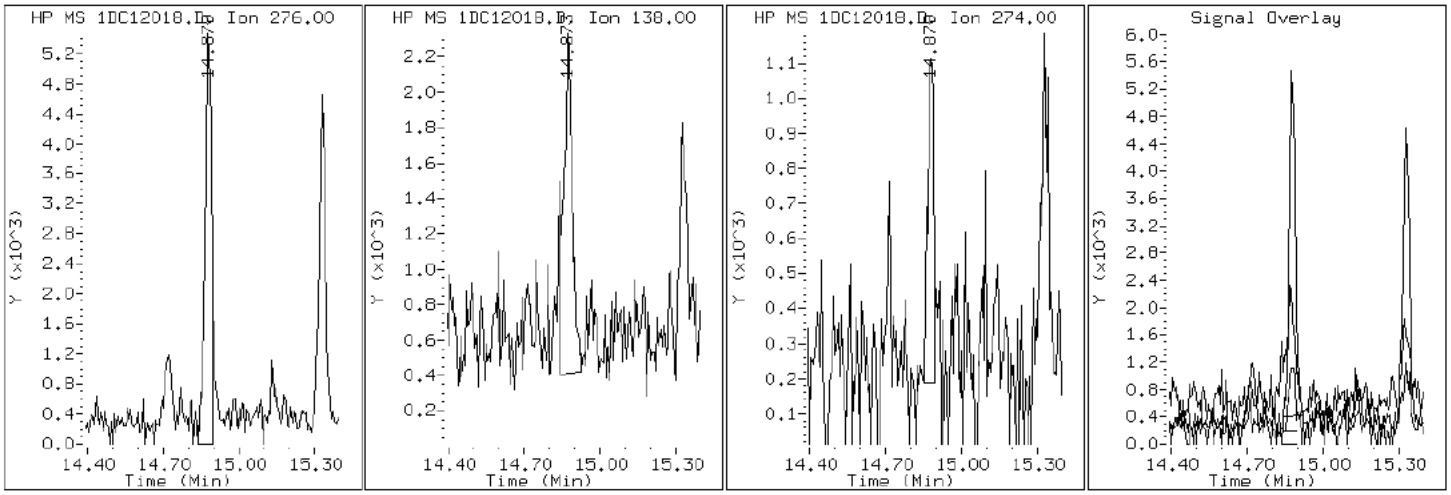
Client ID: FM0134A-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A

Operator: SCC

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



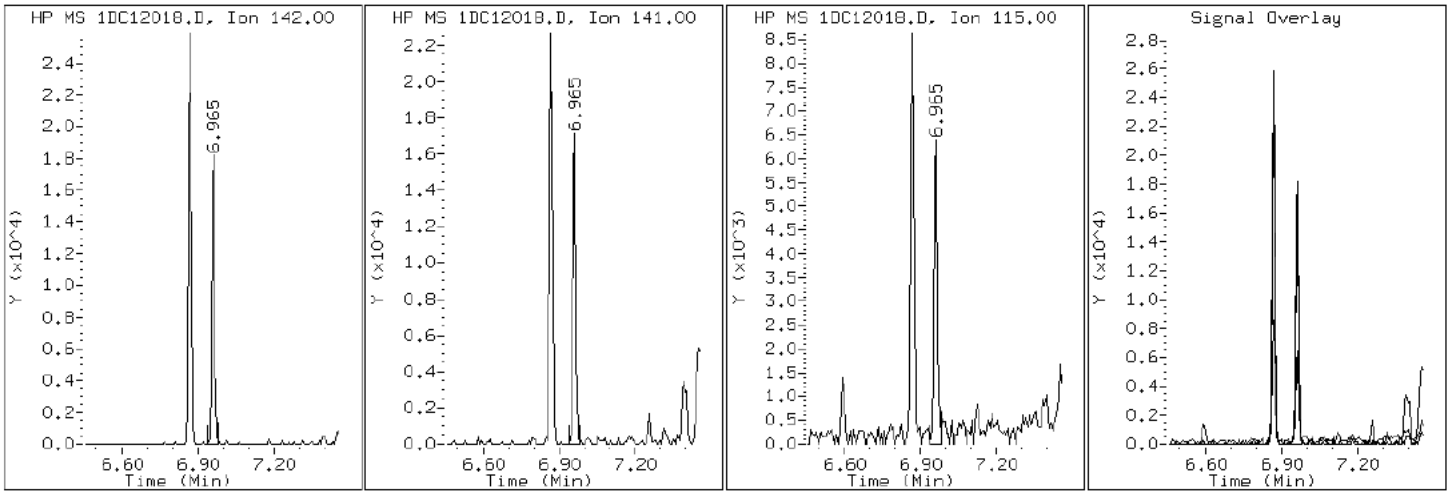
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

4 1-Methylnaphthalene



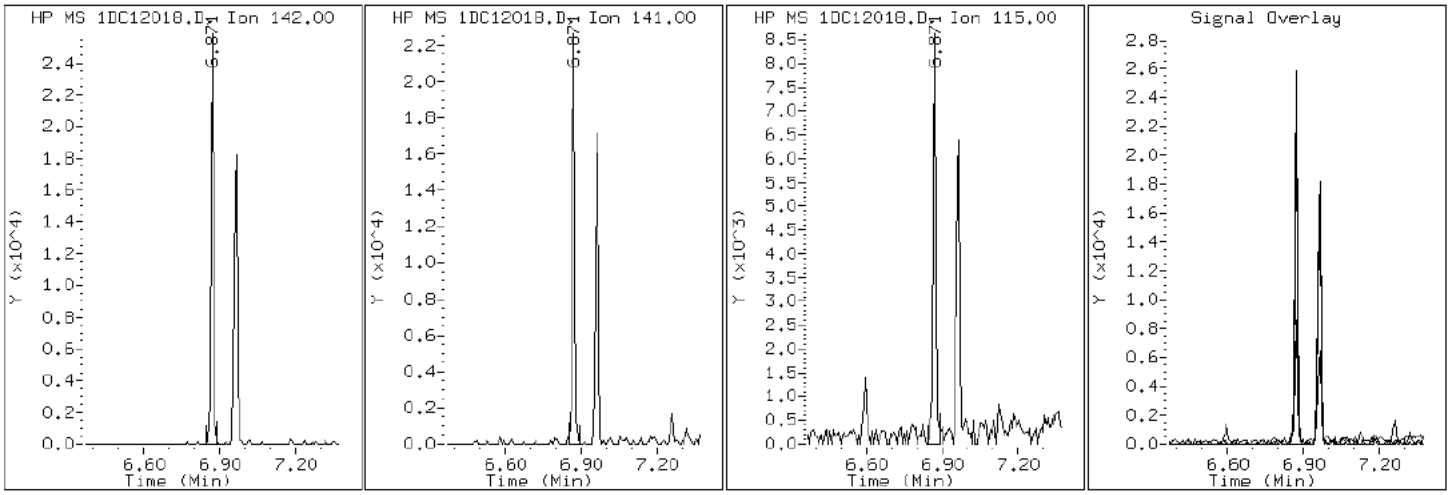
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

3 2-Methylnaphthalene



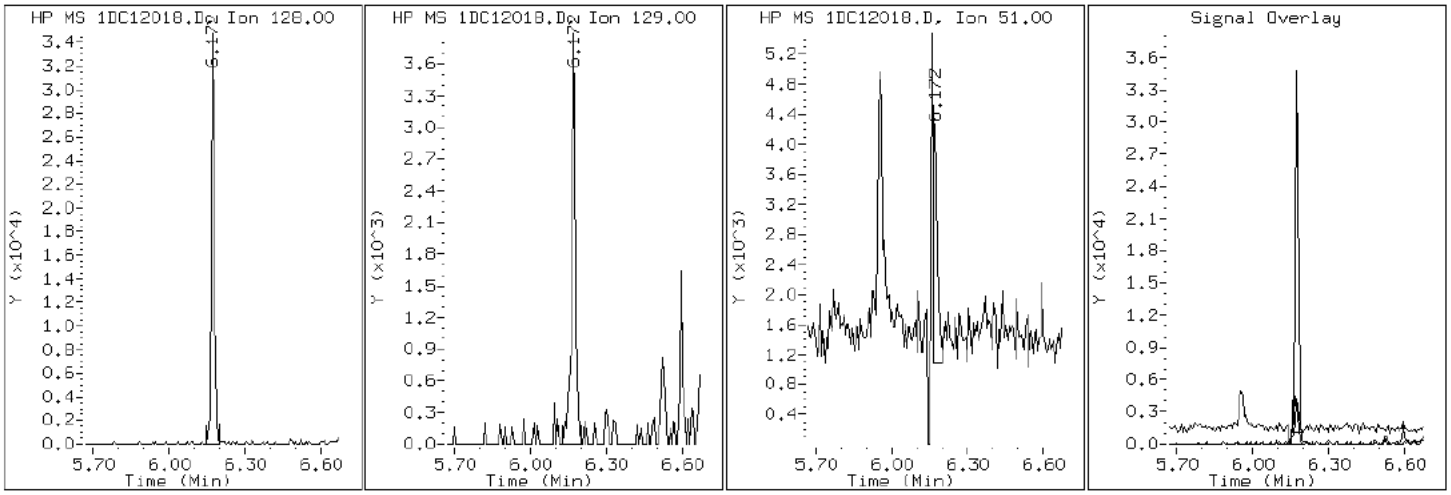
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

2 Naphthalene



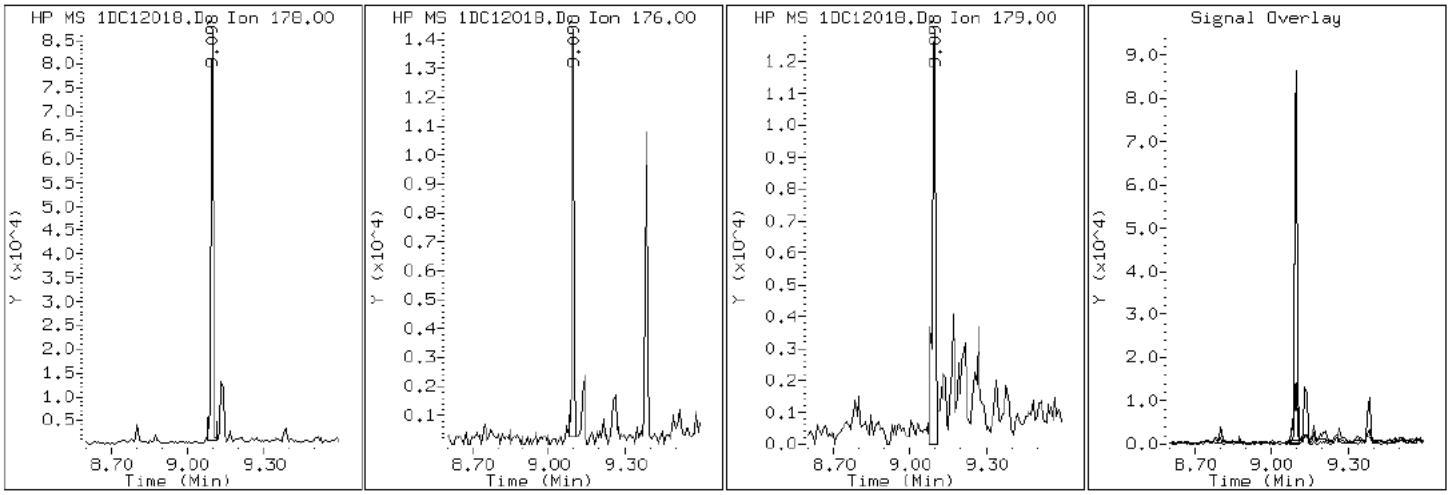
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

10 Phenanthrene



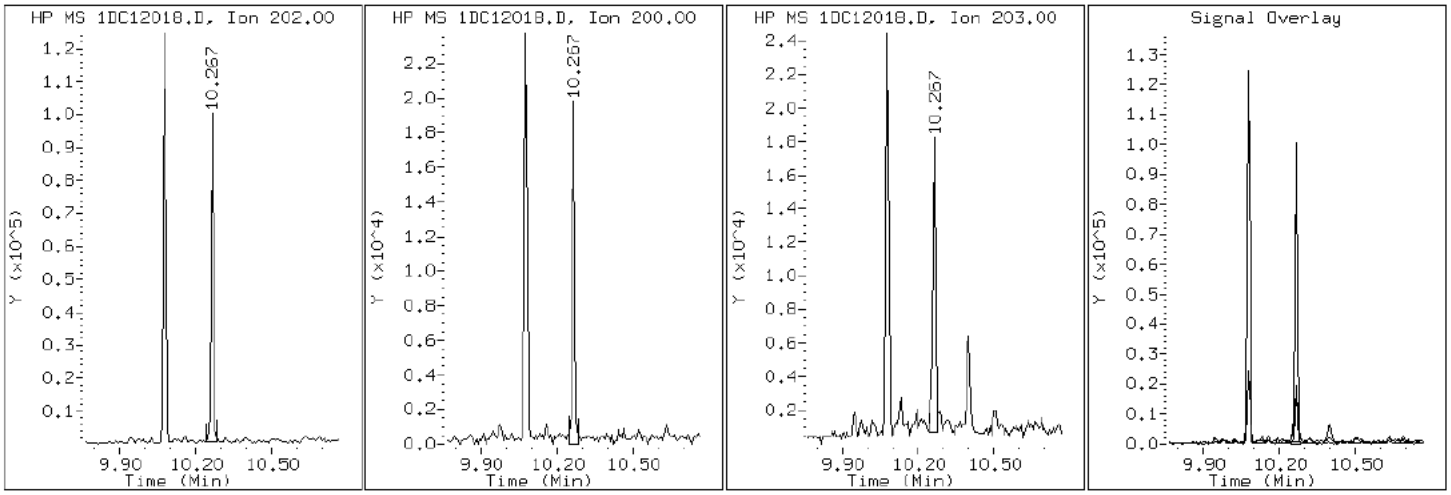
Data File: 1DC12018.D

Date: 12-MAR-2013 16:12

Client ID: FM0134A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-8-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12018.D
Inj. Date and Time: 12-MAR-2013 16:12
Instrument ID: BSMSD.i
Client ID: FM0134A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

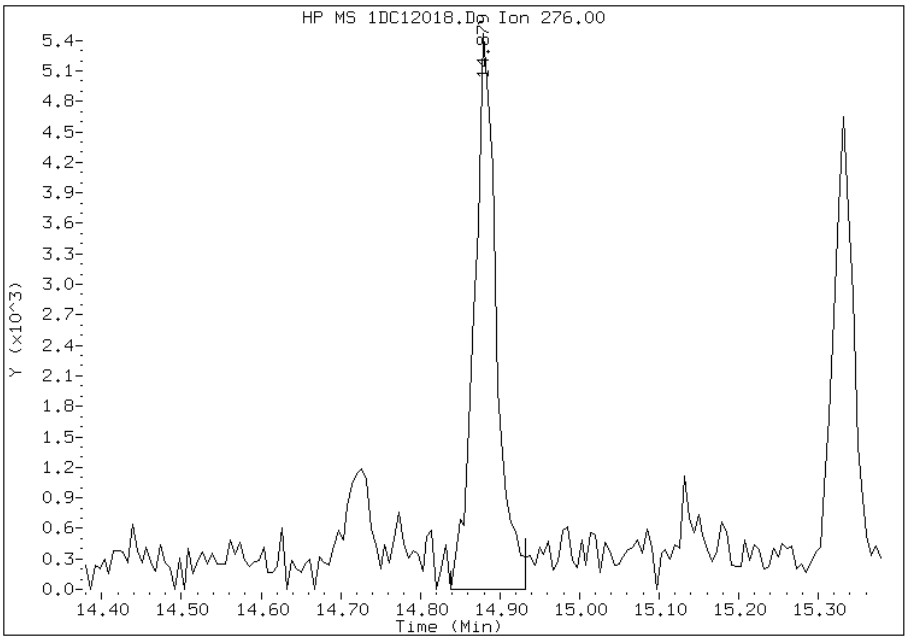
Processing Integration Results

RT: 14.88

Response: 10603

Amount: 0

Conc: 29



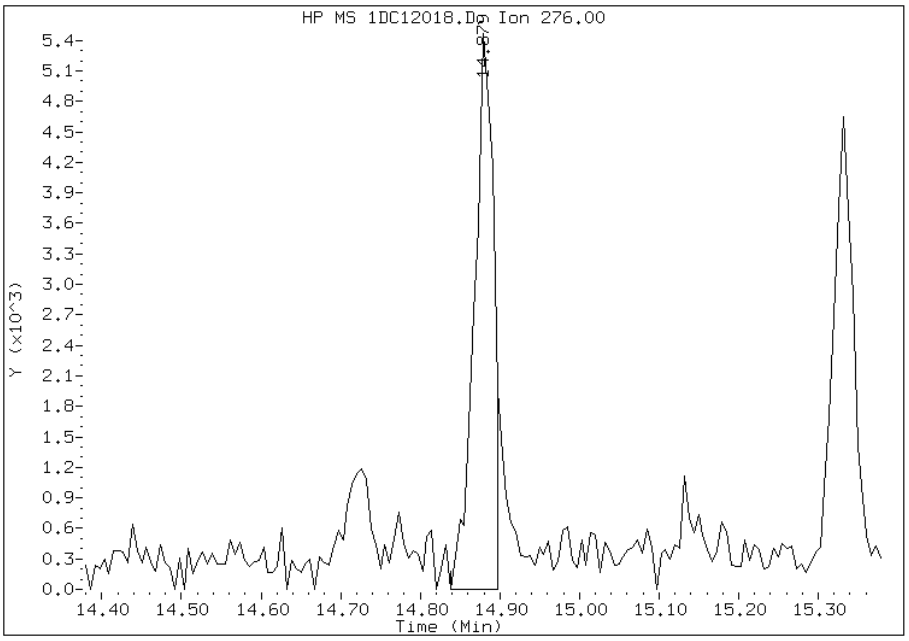
Manual Integration Results

RT: 14.88

Response: 9153

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: FM0134A-CSD | Lab Sample ID: 680-88065-9

Matrix: Solid | Lab File ID: 1DC12019.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:20

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.91(g) | Date Analyzed: 03/12/2013 16:34

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

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

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	18	J	52	6.5
120-12-7	Anthracene	31		11	5.4
56-55-3	Benzo[a]anthracene	190		10	5.1
50-32-8	Benzo[a]pyrene	170		13	6.7
205-99-2	Benzo[b]fluoranthene	350		16	7.9
191-24-2	Benzo[g,h,i]perylene	77		26	5.7
207-08-9	Benzo[k]fluoranthene	130		10	4.7
218-01-9	Chrysene	240		12	5.8
53-70-3	Dibenz(a,h)anthracene	27		26	5.3
206-44-0	Fluoranthene	350		26	5.2
86-73-7	Fluorene	10	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	78		26	9.2
90-12-0	1-Methylnaphthalene	88		52	5.7
91-57-6	2-Methylnaphthalene	100		52	9.2
91-20-3	Naphthalene	86		52	5.7
85-01-8	Phenanthrene	210		10	5.1
129-00-0	Pyrene	300		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12019.D
Lab Smp Id: 680-88065-A-9-A Client Smp ID: FM0134A-CSD
Inj Date : 12-MAR-2013 16:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-9-A
Misc Info : 680-88065-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 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	14.910	Weight Extracted
M	22.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.154	6.149	(1.000)	2276180	40.0000	
* 6 Acenaphthene-d10	164	7.817	7.818	(1.000)	1436604	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2462358	40.0000	
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	250516	6.57903	560
* 17 Chrysene-d12	240	11.413	11.414	(1.000)	2068293	40.0000	
* 22 Perylene-d12	264	13.275	13.282	(1.000)	1252194	40.0000	
2 Naphthalene	128	6.172	6.173	(1.003)	60573	0.99480	86
3 2-Methylnaphthalene	142	6.871	6.872	(1.116)	46945	1.21033	100
4 1-Methylnaphthalene	142	6.965	6.960	(1.132)	36862	1.01488	87
5 Acenaphthylene	152	7.688	7.688	(0.983)	13409	0.21171	18
8 Fluorene	166	8.287	8.288	(1.060)	5344	0.11844	10
10 Phenanthrene	178	9.098	9.099	(1.002)	171894	2.45920	210
11 Anthracene	178	9.133	9.140	(1.006)	25484	0.36440	31
12 Carbazole	167	9.274	9.275	(1.021)	25274	0.40426	35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.079	10.080	(1.110)	293482	4.02339	340
15 Pyrene	202	10.267	10.268	(0.900)	226565	3.53144	300
16 Benzo(a)anthracene	228	11.401	11.396	(0.999)	127685	2.25491	190
18 Chrysene	228	11.436	11.443	(1.002)	159683	2.73151	230
19 Benzo(b)fluoranthene	252	12.723	12.730	(0.958)	130302	4.04273	350
20 Benzo(k)fluoranthene	252	12.758	12.765	(0.961)	51596	1.52890	130
21 Benzo(a)pyrene	252	13.181	13.188	(0.993)	64563	2.02421	170
23 Indeno(1,2,3-cd)pyrene	276	14.885	14.898	(1.121)	30655	0.90060	77(M)
24 Dibenzo(a,h)anthracene	278	14.914	14.927	(1.123)	9864	0.31379	27
25 Benzo(g,h,i)perylene	276	15.343	15.356	(1.156)	28978	0.89291	77

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC12019.D

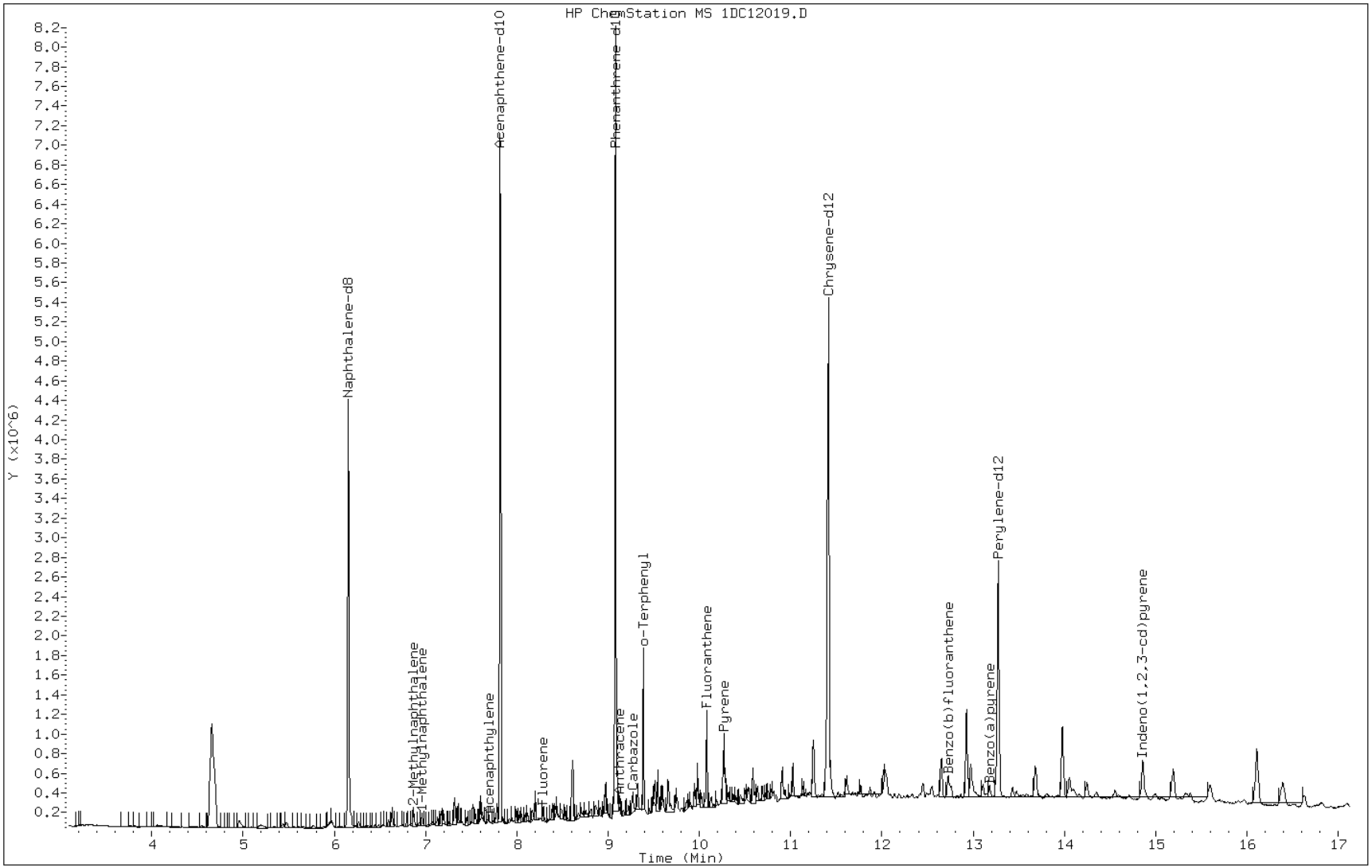
Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD

Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A

Operator: SCC



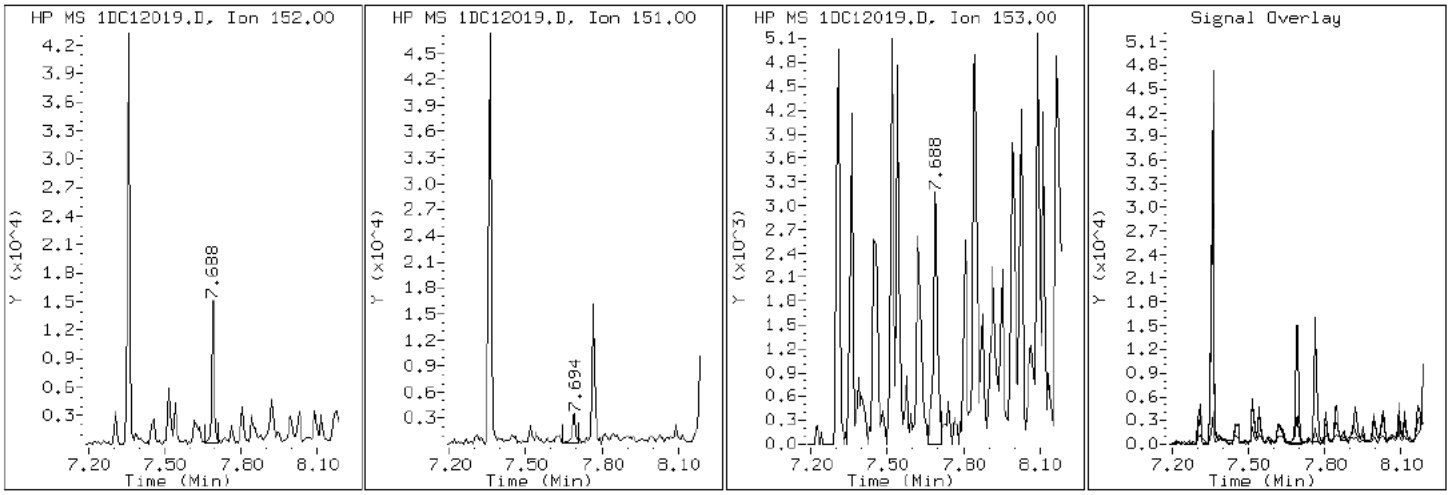
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

5 Acenaphthylene



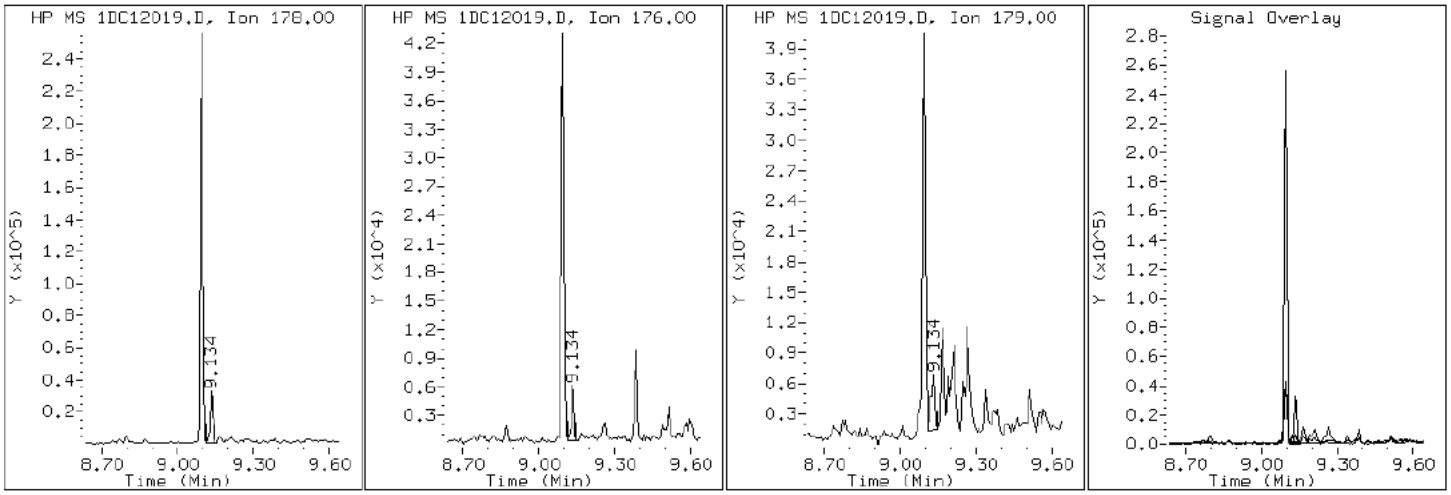
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

11 Anthracene



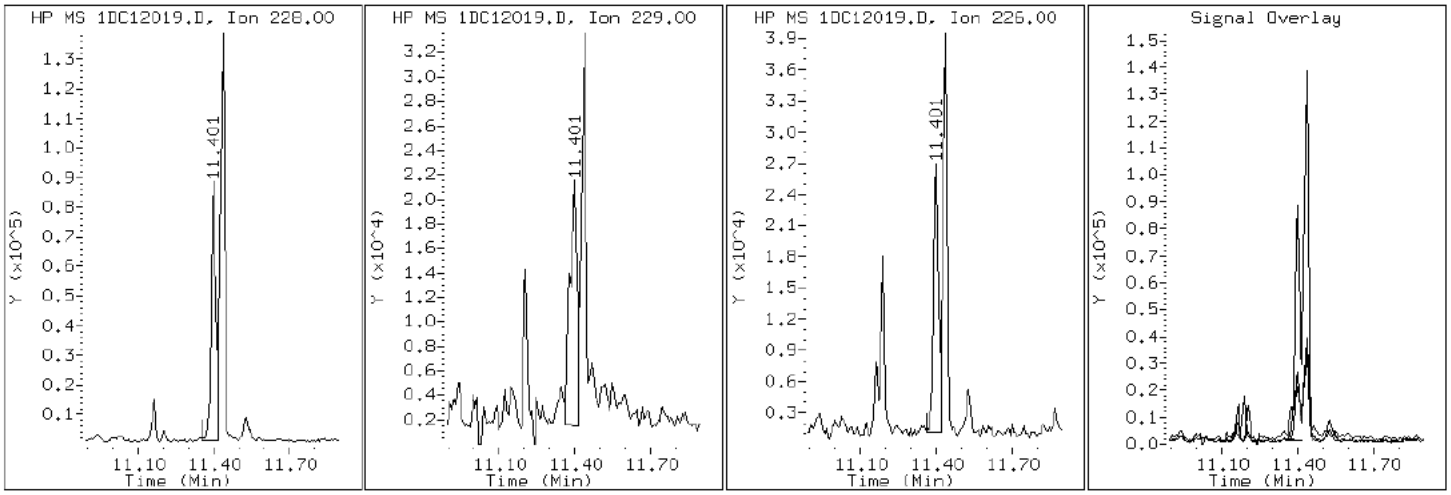
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

16 Benzo(a)anthracene



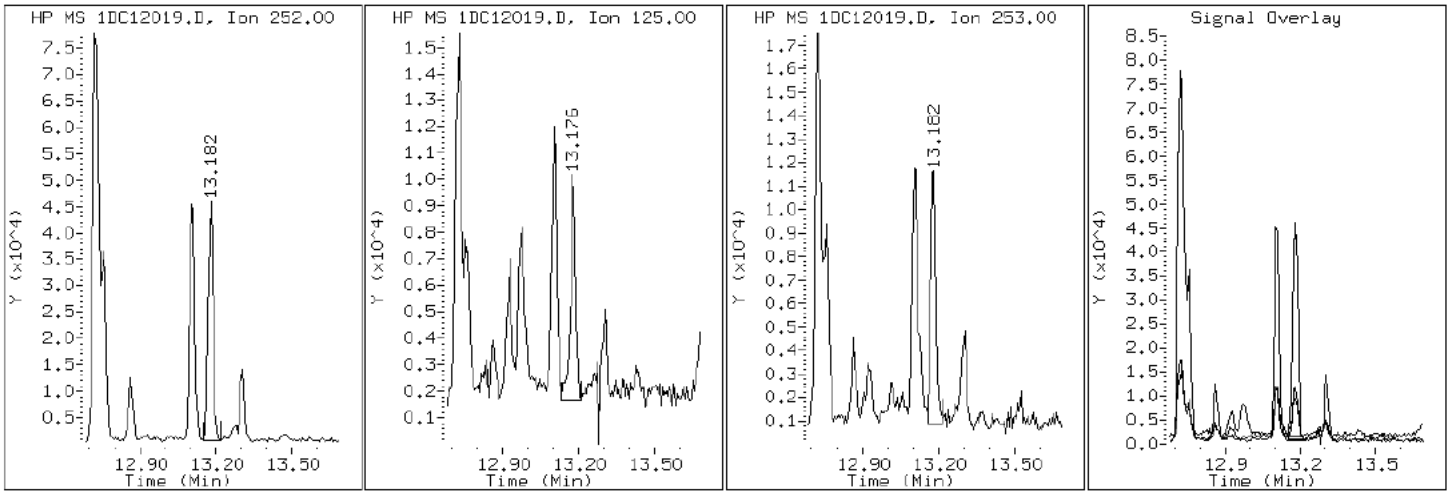
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

21 Benzo(a)pyrene



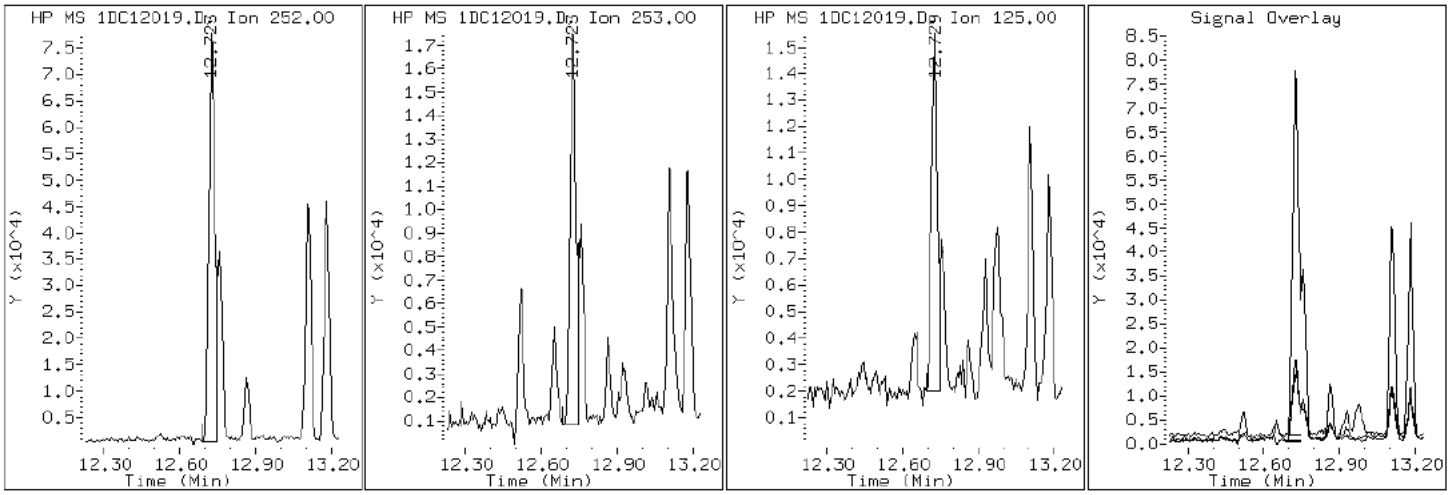
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

19 Benzo(b)fluoranthene



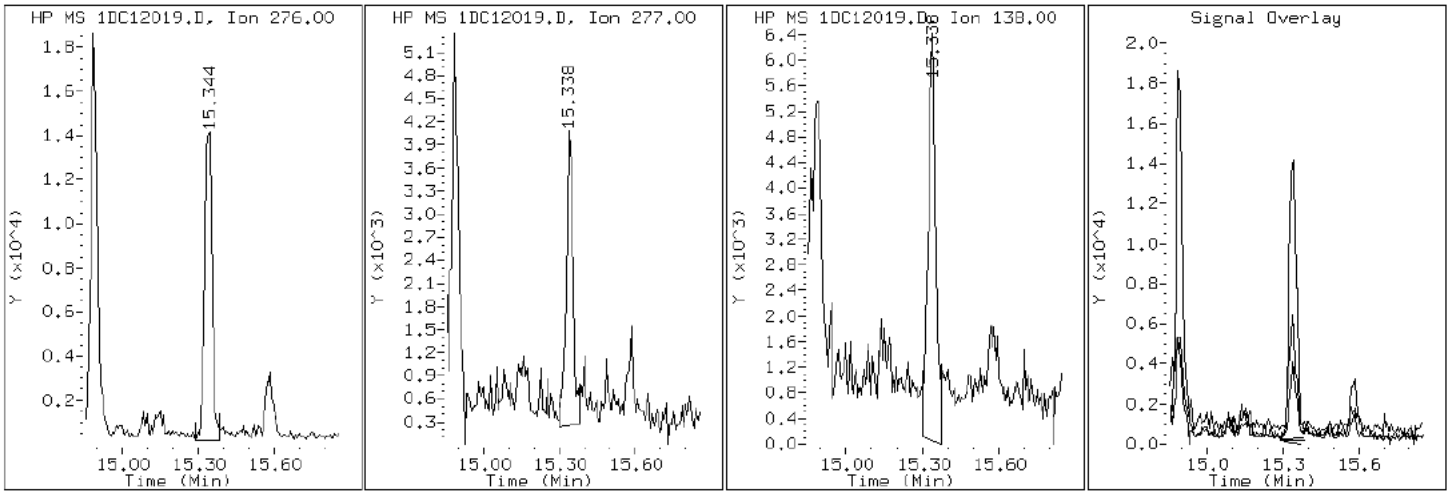
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

25 Benzo(g,h,i)perylene



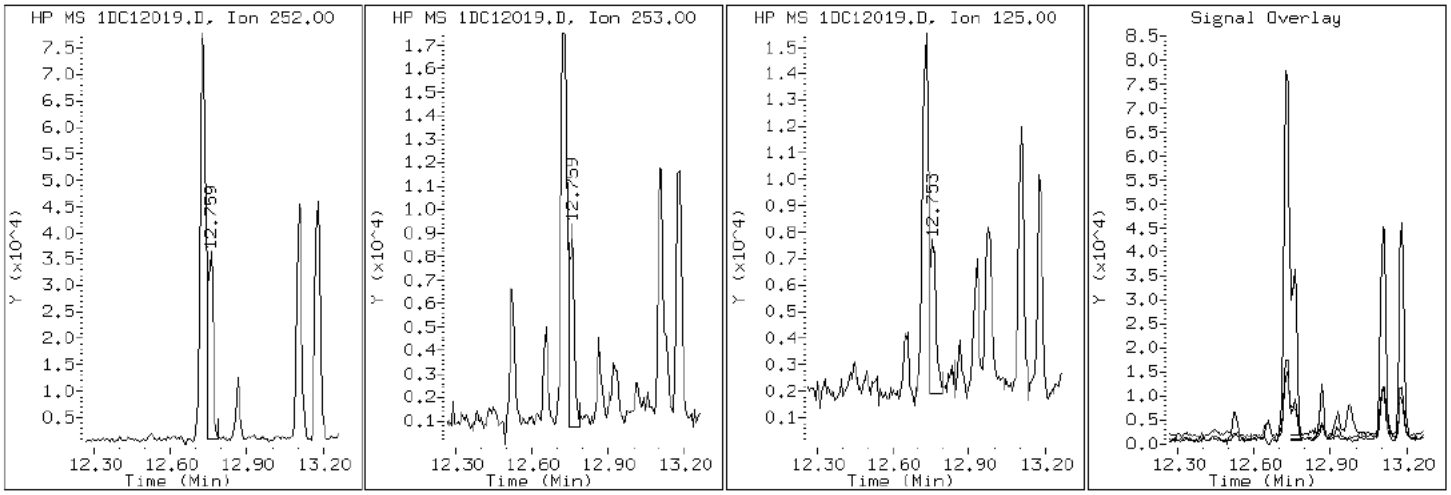
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

20 Benzo(k)fluoranthene



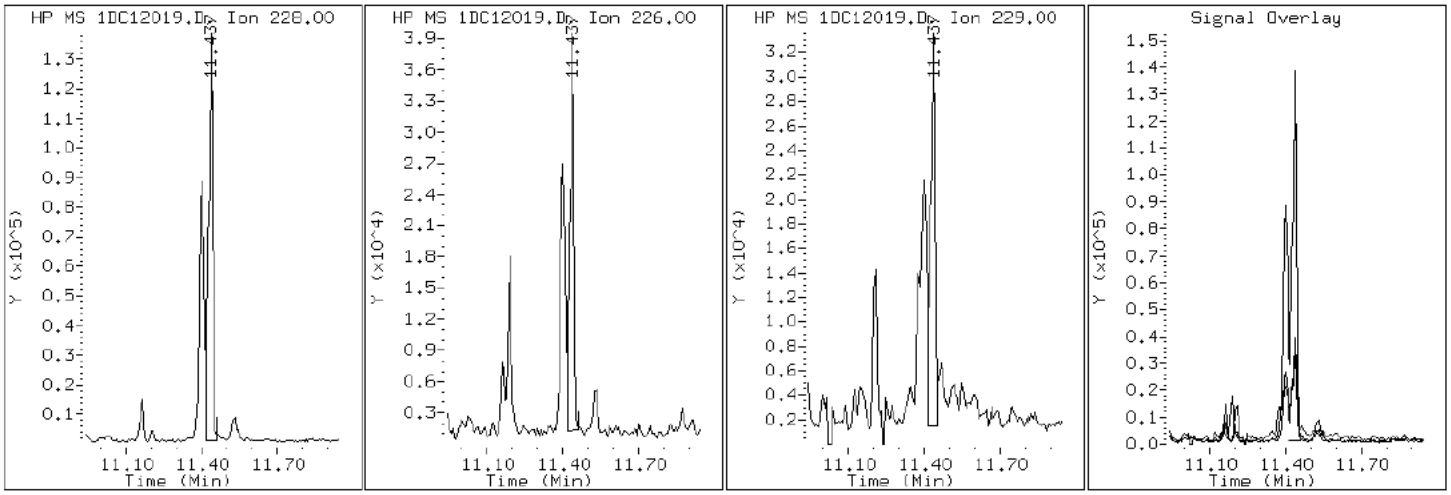
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

18 Chrysene



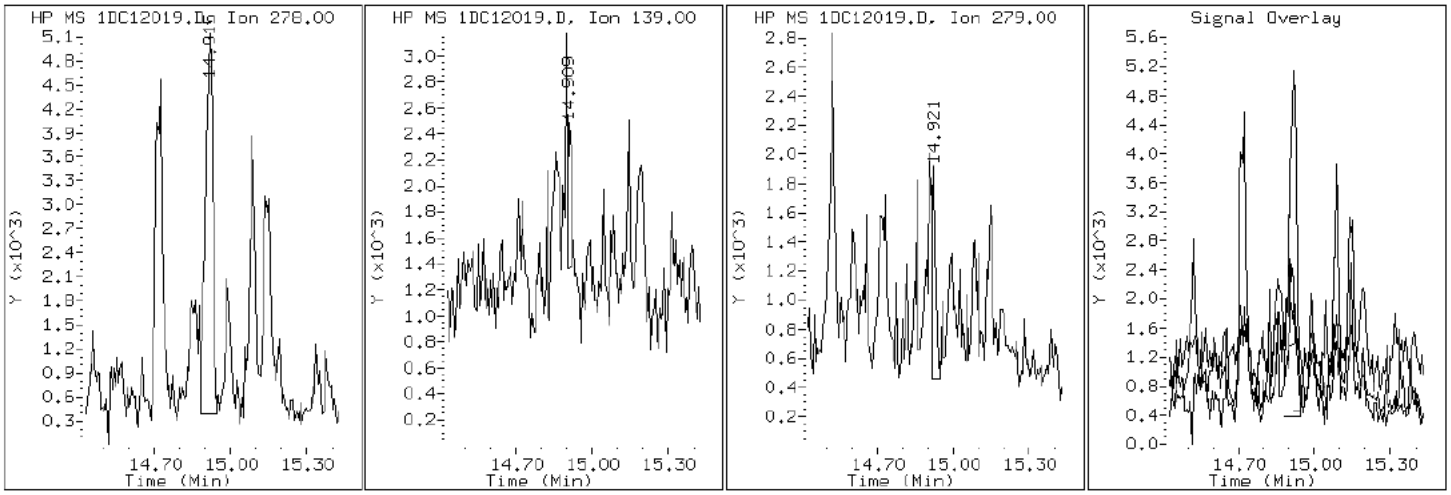
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

24 Dibenzo(a,h)anthracene



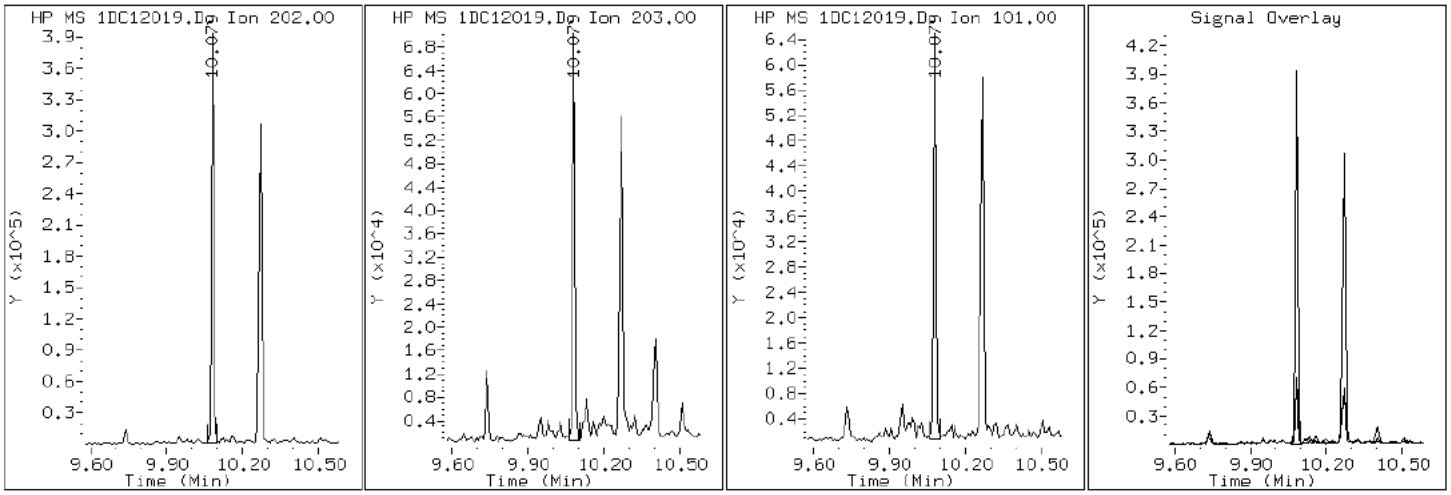
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

14 Fluoranthene



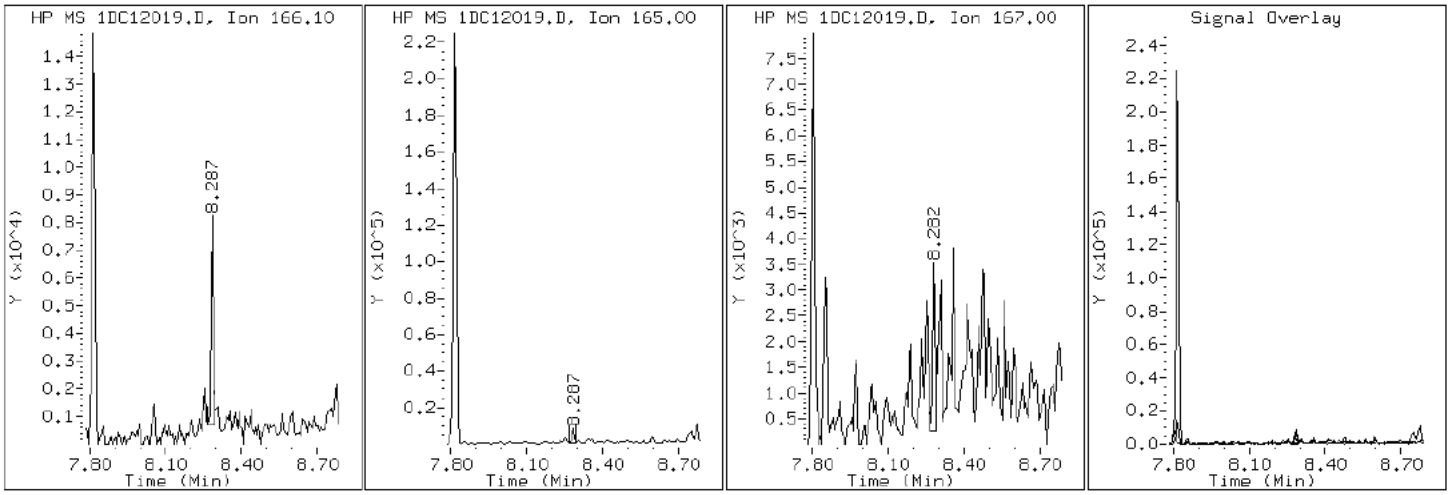
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

8 Fluorene



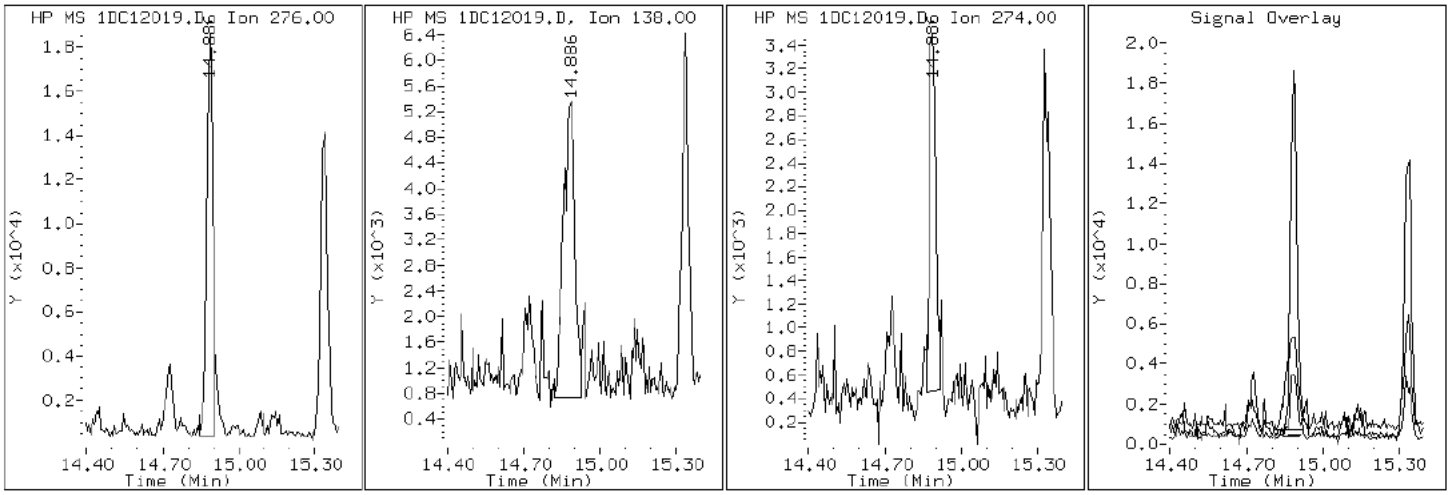
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

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



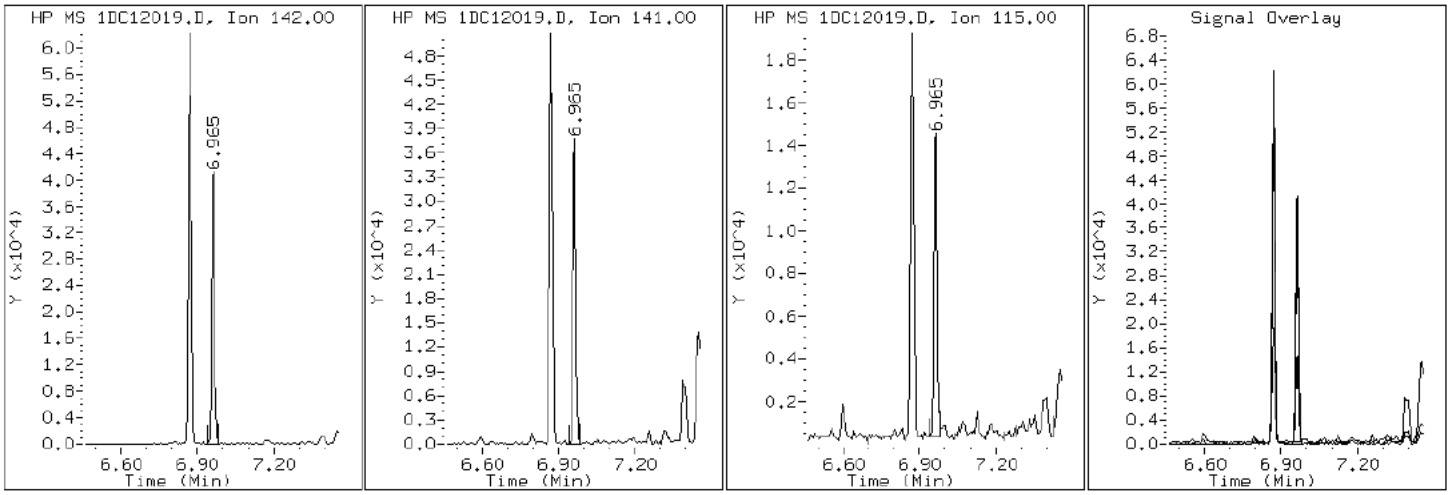
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

4 1-Methylnaphthalene



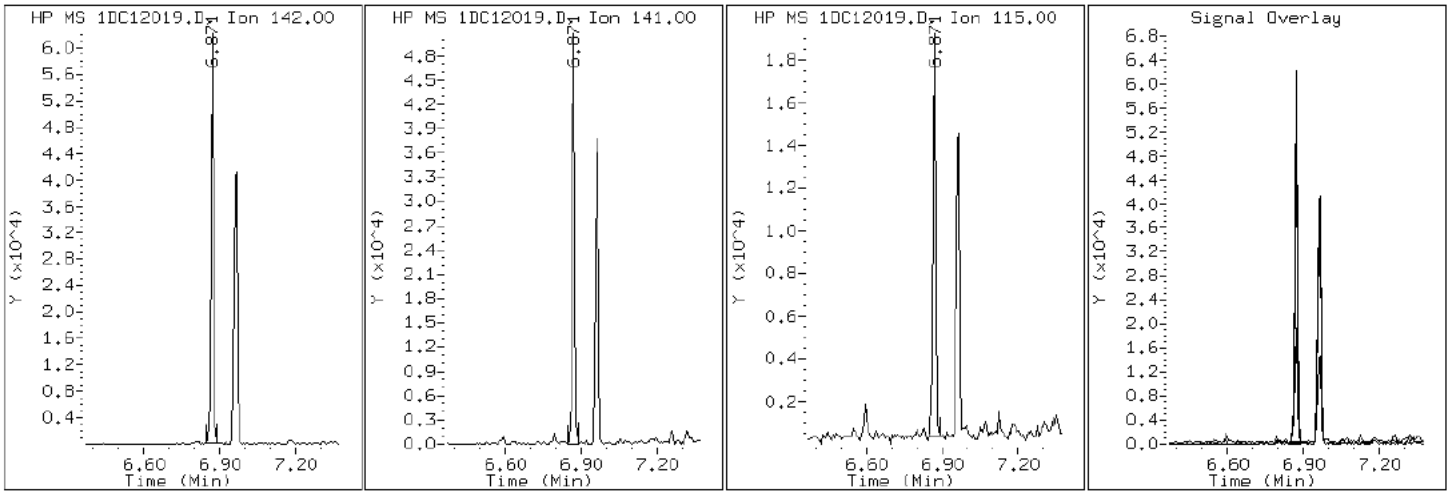
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

3 2-Methylnaphthalene



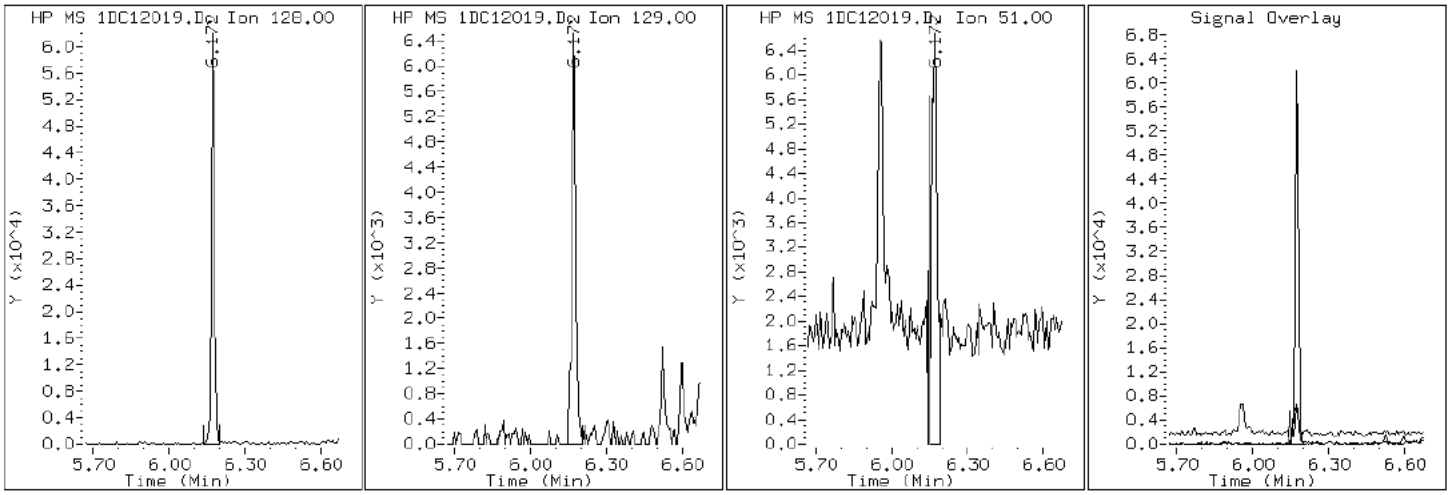
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

2 Naphthalene



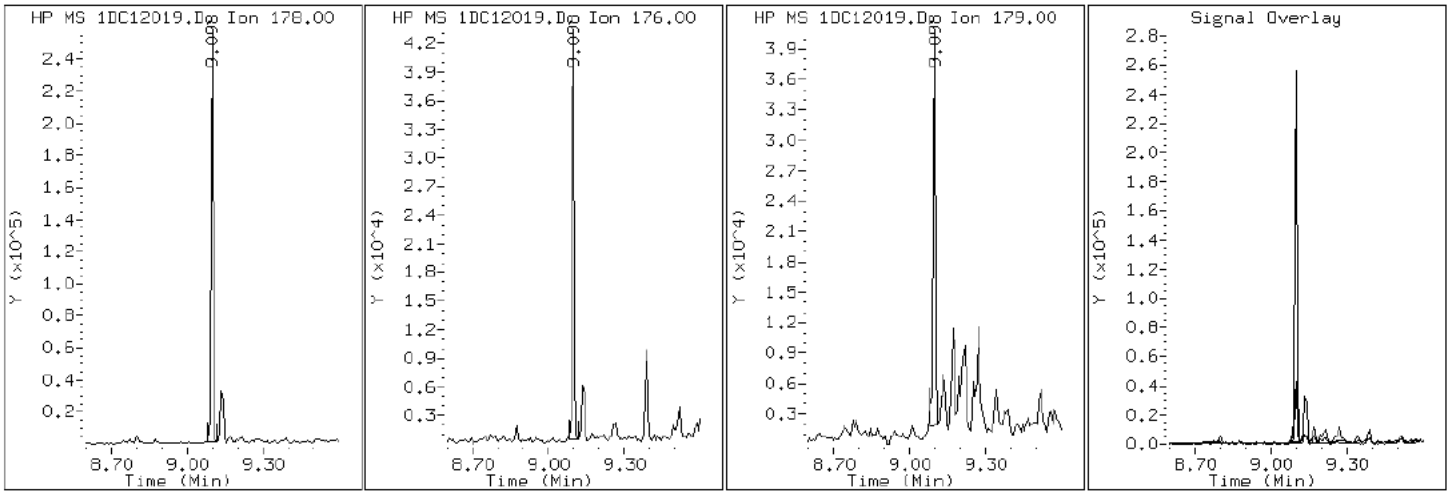
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

10 Phenanthrene



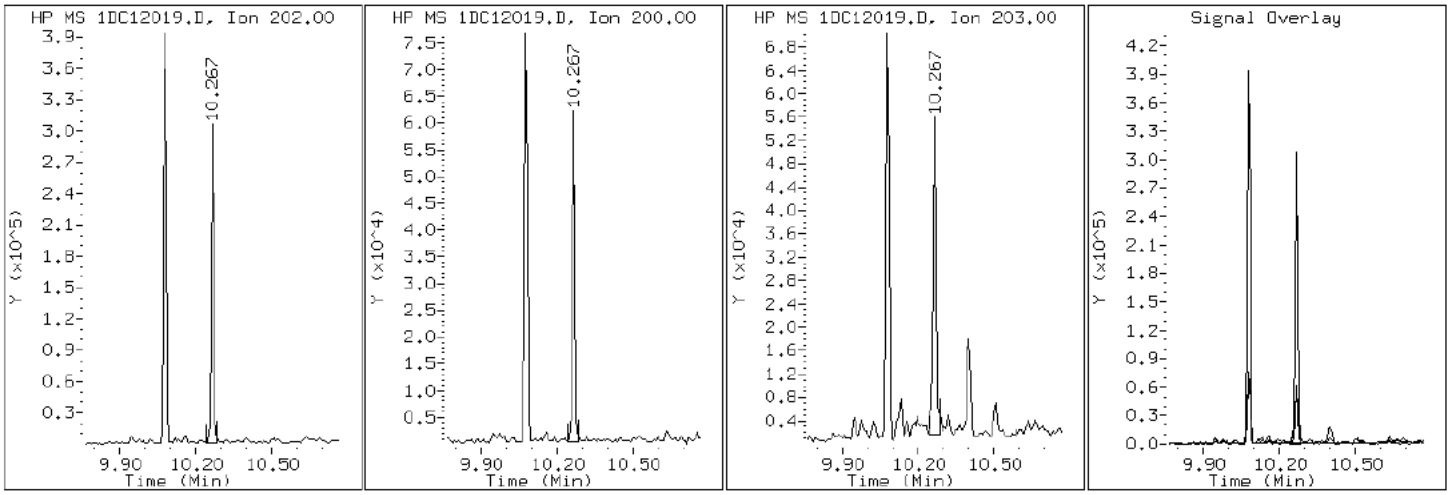
Data File: 1DC12019.D

Date: 12-MAR-2013 16:34

Client ID: FM0134A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-9-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12019.D
Inj. Date and Time: 12-MAR-2013 16:34
Instrument ID: BSMSD.i
Client ID: FM0134A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

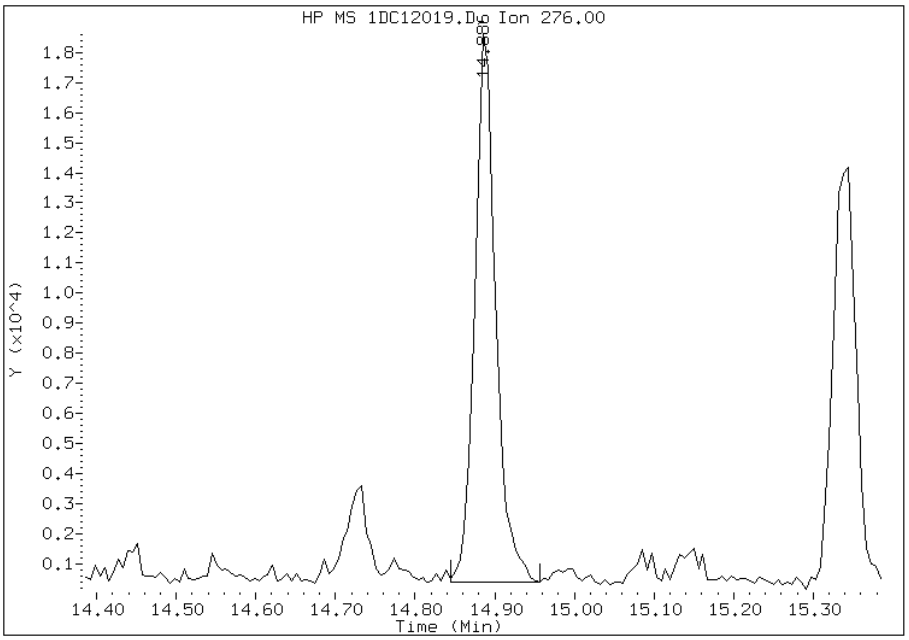
Processing Integration Results

RT: 14.89

Response: 33021

Amount: 1

Conc: 83



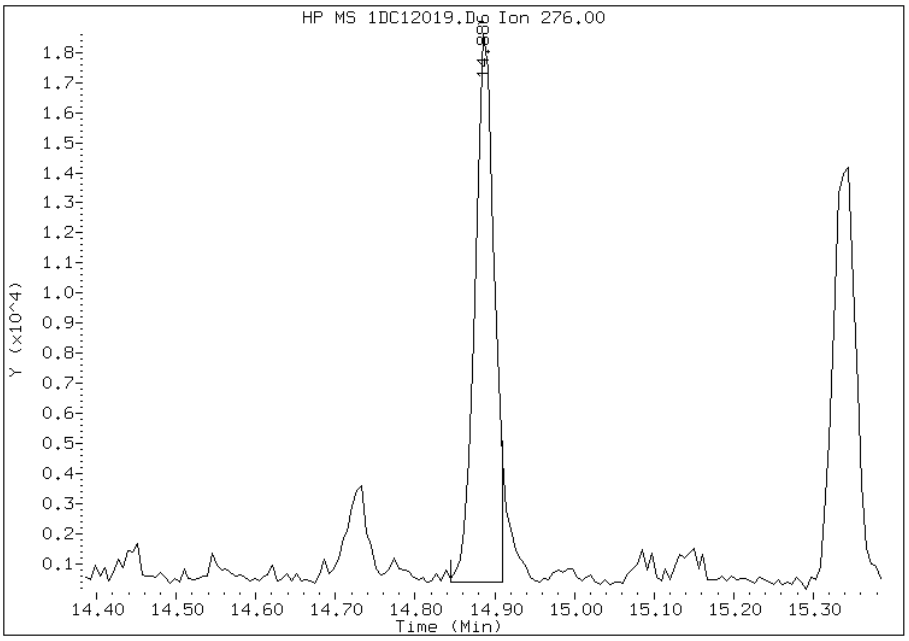
Manual Integration Results

RT: 14.89

Response: 30655

Amount: 1

Conc: 77



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: FM0134B-CS | Lab Sample ID: 680-88065-10

Matrix: Solid | Lab File ID: 1DC12020.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.24(g) | Date Analyzed: 03/12/2013 16:57

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

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

% Moisture: 30.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	56	U	56	7.1
120-12-7	Anthracene	17		12	5.9
56-55-3	Benzo[a]anthracene	62		11	5.5
50-32-8	Benzo[a]pyrene	51		15	7.3
205-99-2	Benzo[b]fluoranthene	100		17	8.6
191-24-2	Benzo[g,h,i]perylene	23	J	28	6.2
207-08-9	Benzo[k]fluoranthene	29		11	5.1
218-01-9	Chrysene	68		13	6.4
53-70-3	Dibenz(a,h)anthracene	6.5	J	28	5.8
206-44-0	Fluoranthene	110		28	5.6
86-73-7	Fluorene	8.1	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	22	J	28	10
90-12-0	1-Methylnaphthalene	16	J	56	6.2
91-57-6	2-Methylnaphthalene	21	J	56	10
91-20-3	Naphthalene	25	J	56	6.2
85-01-8	Phenanthrene	82		11	5.5
129-00-0	Pyrene	95		28	5.2

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12020.D
Lab Smp Id: 680-88065-A-10-A Client Smp ID: FM0134B-CS
Inj Date : 12-MAR-2013 16:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-10-A
Misc Info : 680-88065-A-10-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 20
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	30.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.155	6.149	(1.000)	2211932	40.0000	
* 6 Acenaphthene-d10	164	7.818	7.818	(1.000)	1410953	40.0000	
* 9 Phenanthrene-d10	188	9.081	9.075	(1.000)	2399834	40.0000	
$ 13 o-Terphenyl	230	9.387	9.386	(1.034)	264051	7.11515	670
* 17 Chrysene-d12	240	11.414	11.414	(1.000)	2062908	40.0000	
* 22 Perylene-d12	264	13.270	13.282	(1.000)	1280015	40.0000	
2 Naphthalene	128	6.173	6.173	(1.003)	15748	0.26615	25
3 2-Methylnaphthalene	142	6.872	6.872	(1.116)	8536	0.22647	21
4 1-Methylnaphthalene	142	6.960	6.960	(1.131)	6185	0.17523	16
5 Acenaphthylene	152	7.689	7.688	(0.983)	2596	0.04173	3.9
8 Fluorene	166	8.288	8.288	(1.060)	3790	0.08553	8.0
10 Phenanthrene	178	9.093	9.099	(1.001)	59547	0.87411	82
11 Anthracene	178	9.134	9.140	(1.006)	11967	0.17557	16
12 Carbazole	167	9.275	9.275	(1.021)	8137	0.13354	12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.080	10.080	(1.110)	86386	1.21513	110
15 Pyrene	202	10.268	10.268	(0.900)	64830	1.01313	95
16 Benzo(a)anthracene	228	11.396	11.396	(0.998)	36977	0.65472	61
18 Chrysene	228	11.437	11.443	(1.002)	41813	0.71711	67
19 Benzo(b)fluoranthene	252	12.718	12.730	(0.958)	34930	1.06018	99
20 Benzo(k)fluoranthene	252	12.753	12.765	(0.961)	10578	0.30664	29
21 Benzo(a)pyrene	252	13.176	13.188	(0.993)	17679	0.54223	51
23 Indeno(1,2,3-cd)pyrene	276	14.880	14.898	(1.121)	8203	0.23576	22(M)
24 Dibenzo(a,h)anthracene	278	14.910	14.927	(1.124)	2216	0.06896	6.5
25 Benzo(g,h,i)perylene	276	15.333	15.356	(1.155)	8277	0.24950	23

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC12020.D

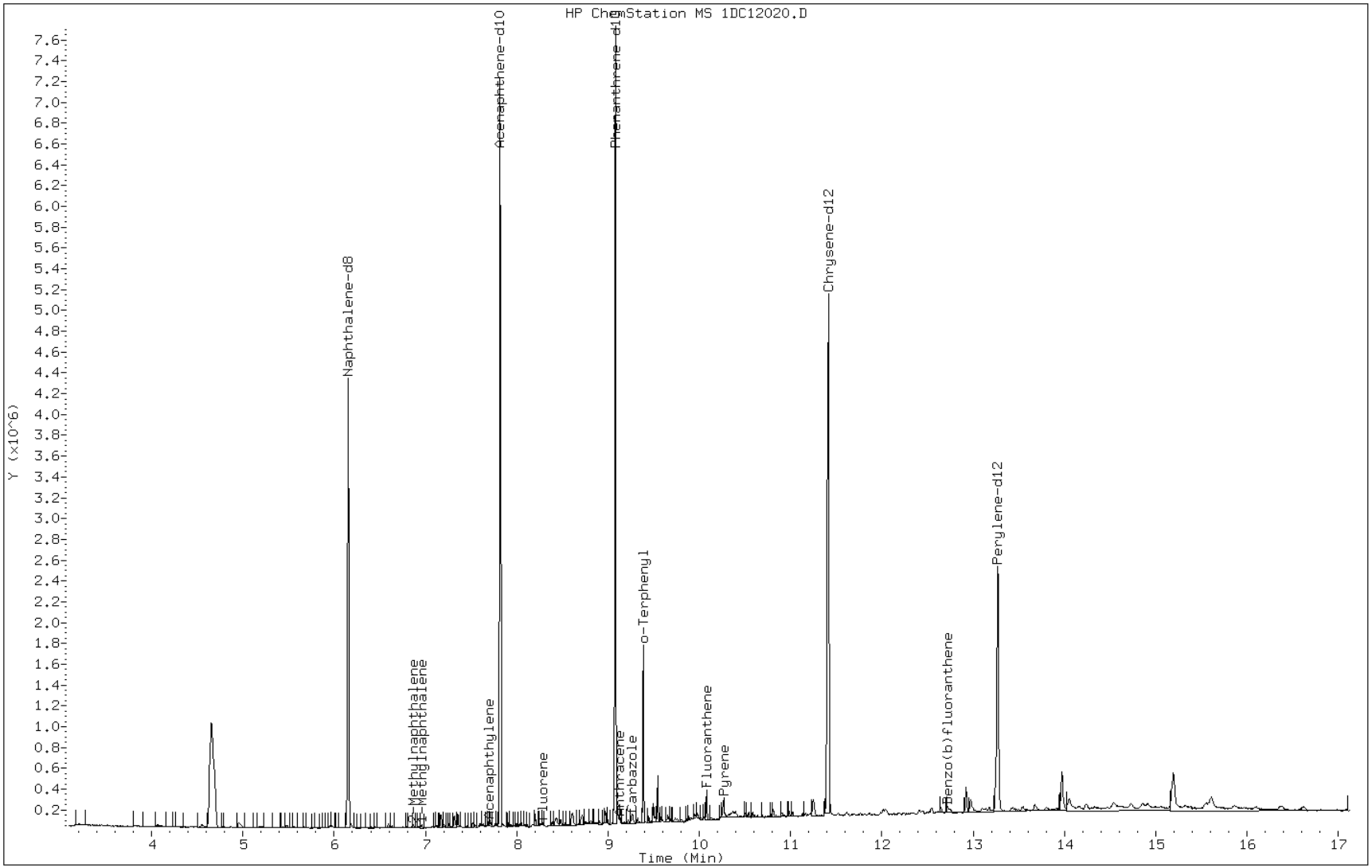
Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A

Operator: SCC



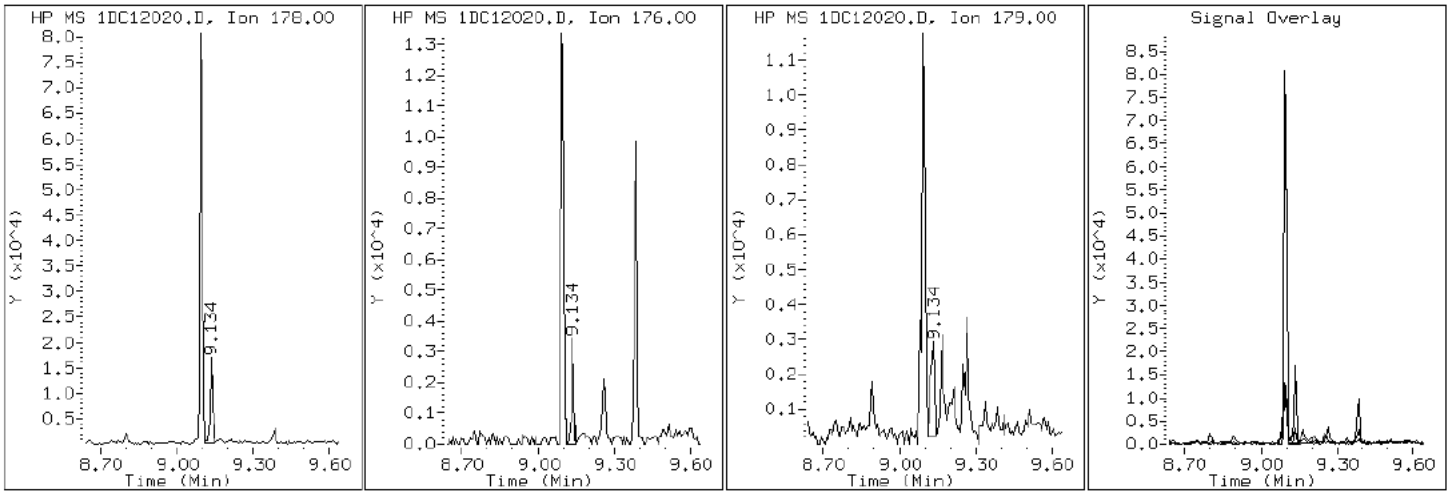
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

11 Anthracene



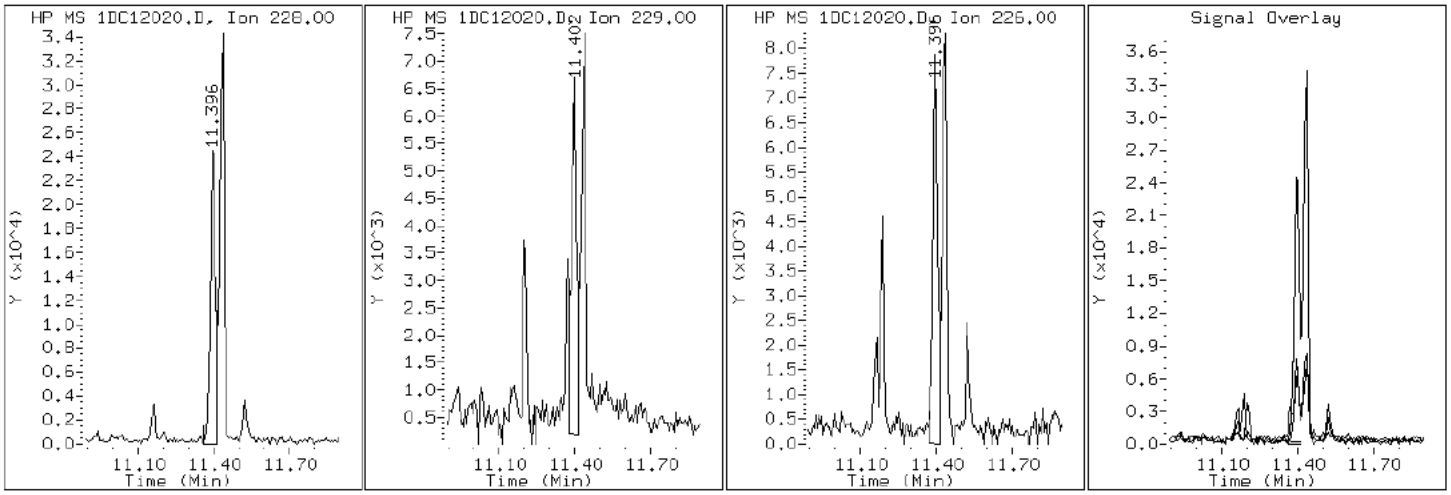
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

16 Benzo(a)anthracene



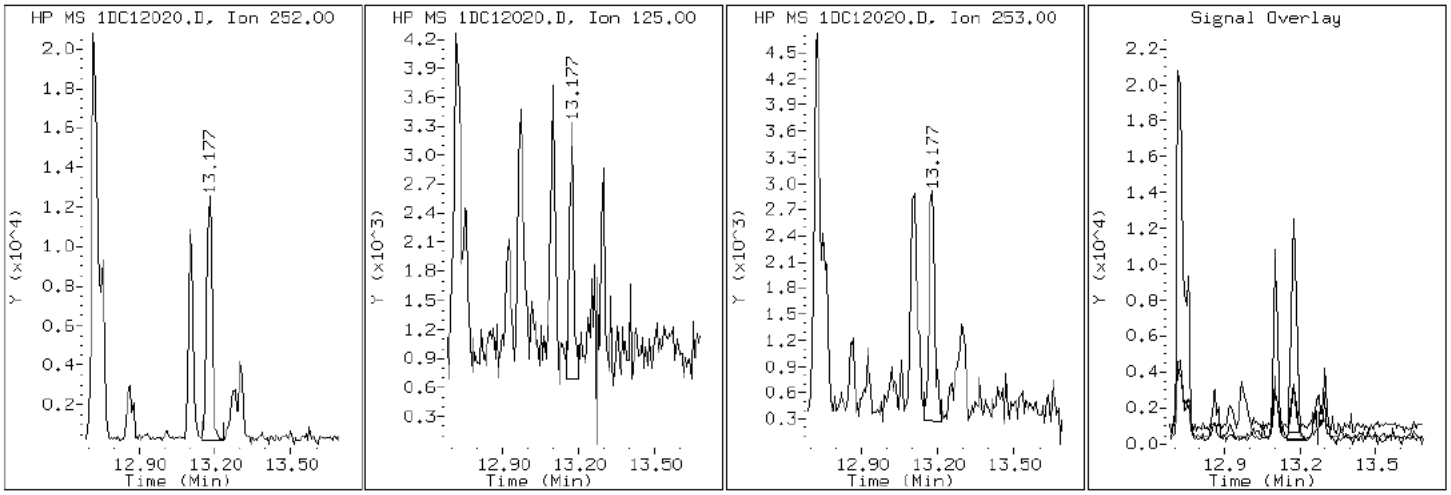
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

21 Benzo(a)pyrene



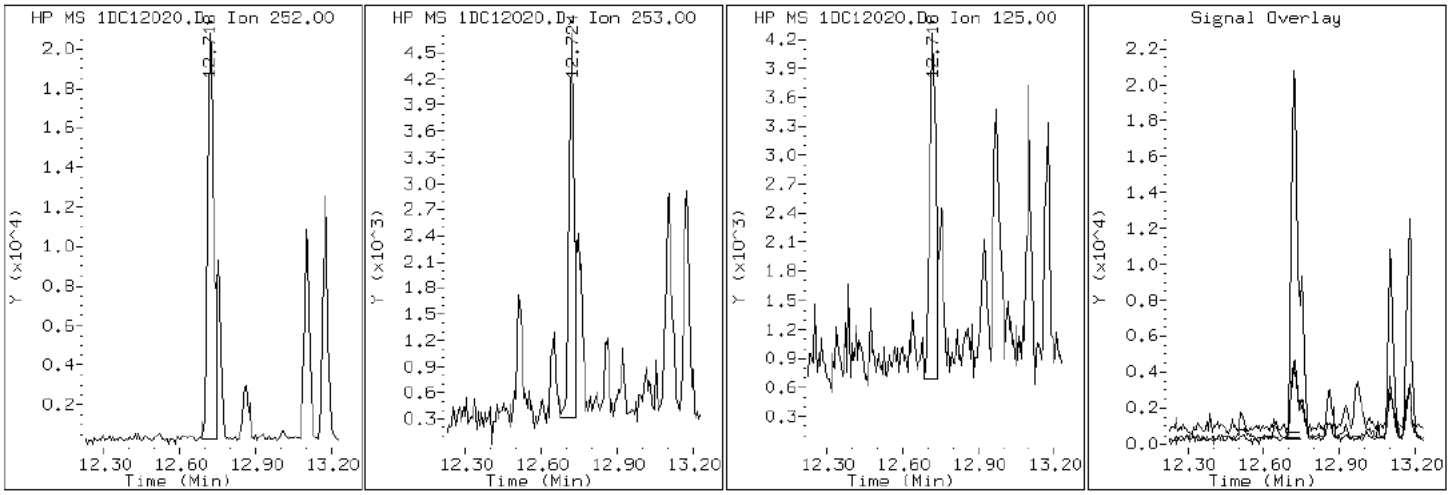
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

19 Benzo(b)fluoranthene



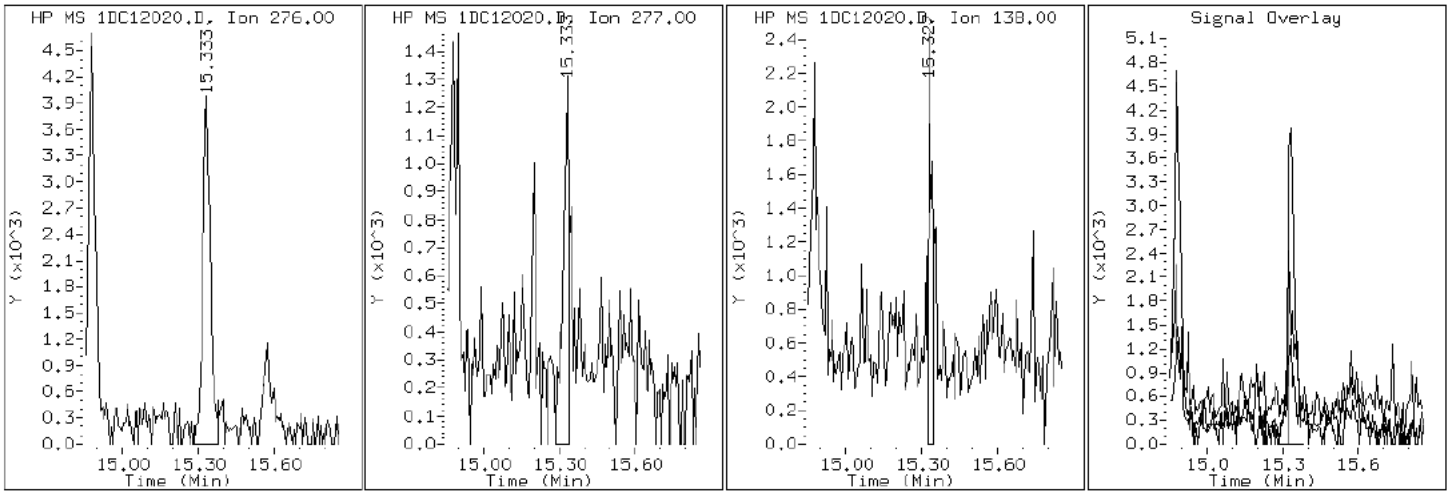
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

25 Benzo(g,h,i)perylene



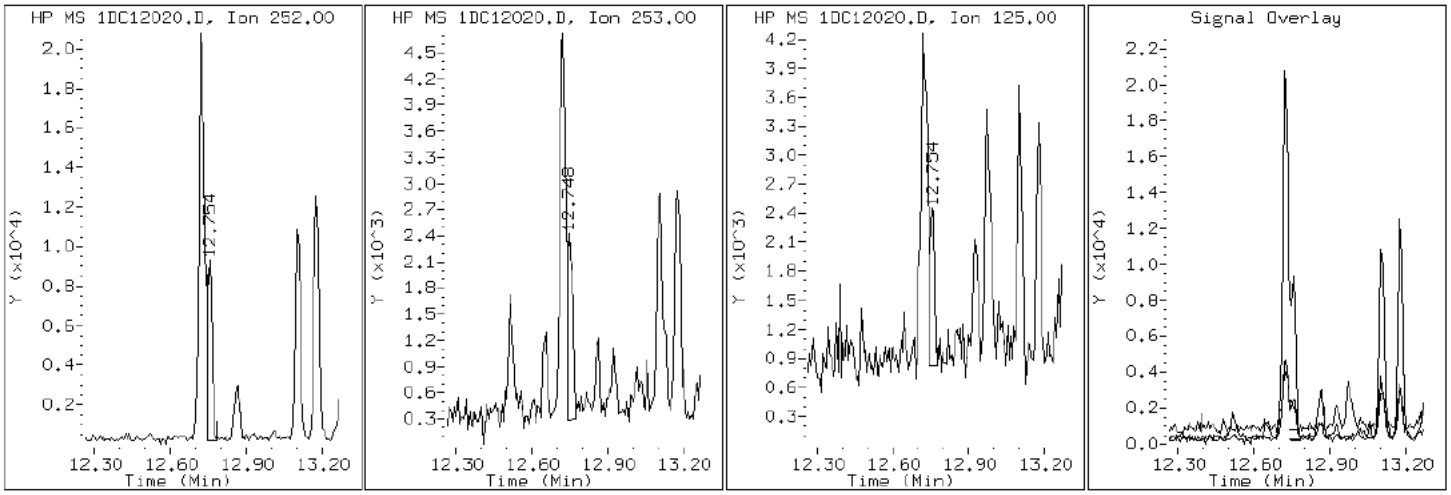
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

20 Benzo(k)fluoranthene



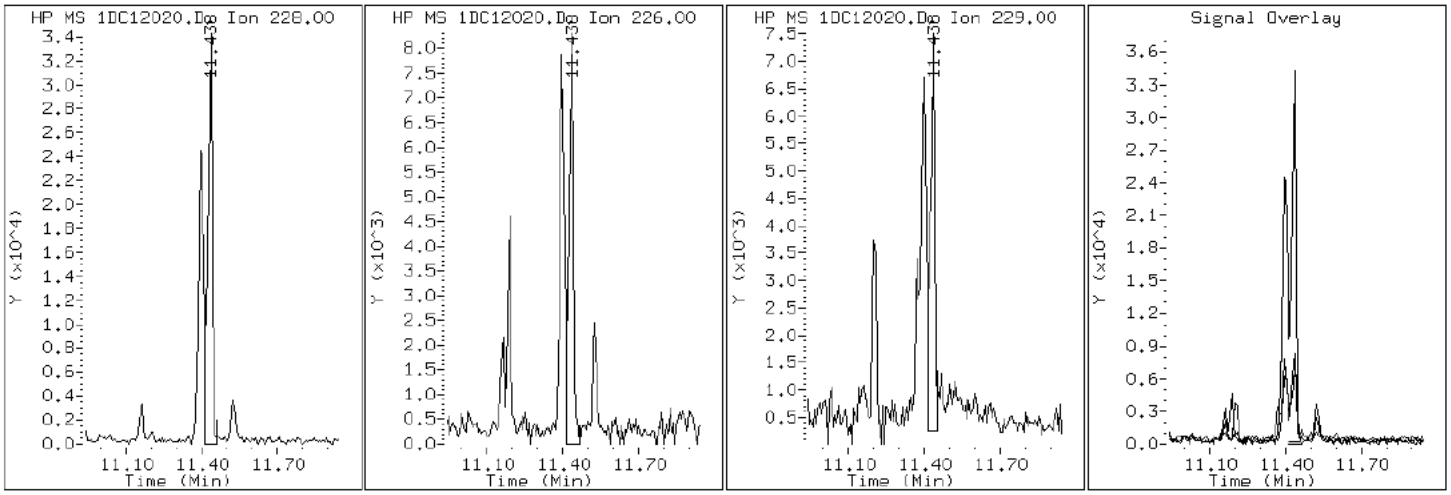
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

18 Chrysene



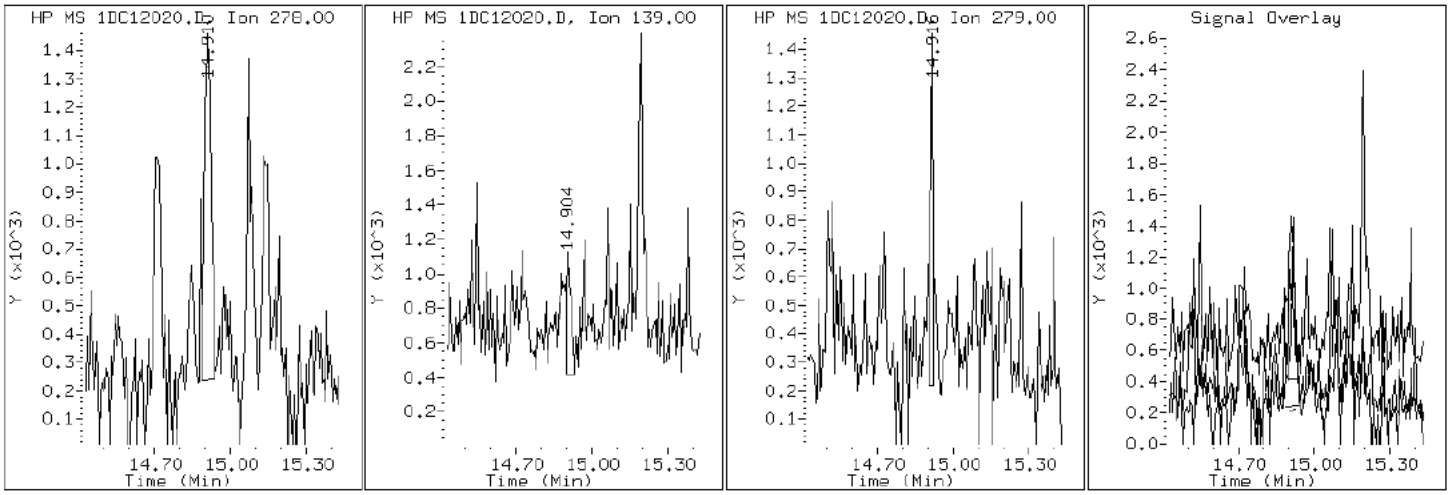
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

24 Dibenzo(a,h)anthracene



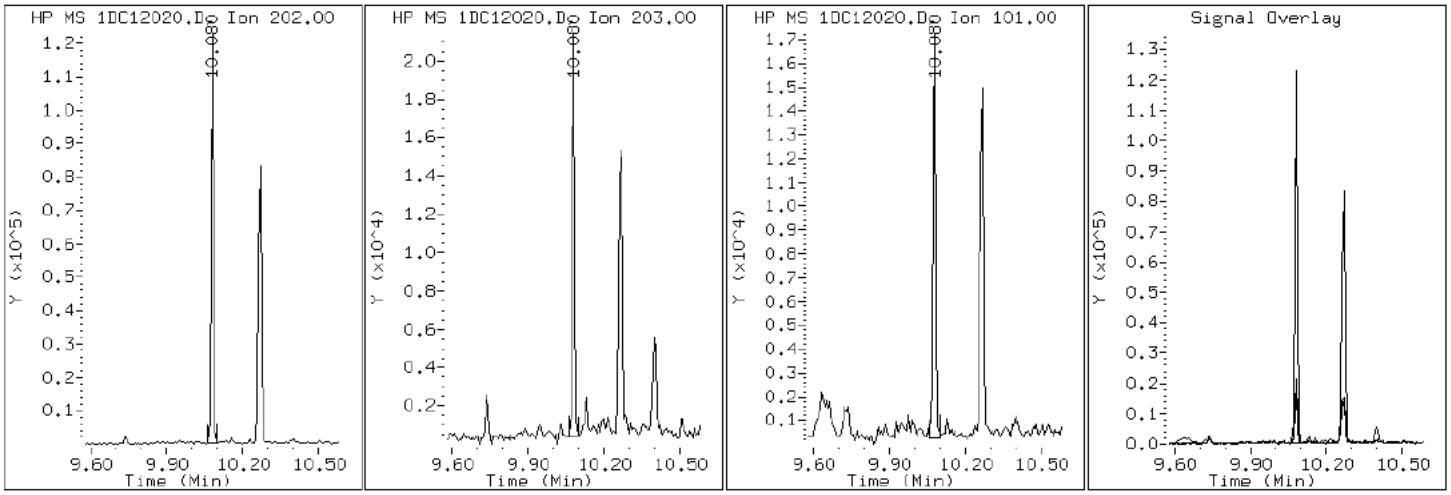
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

14 Fluoranthene



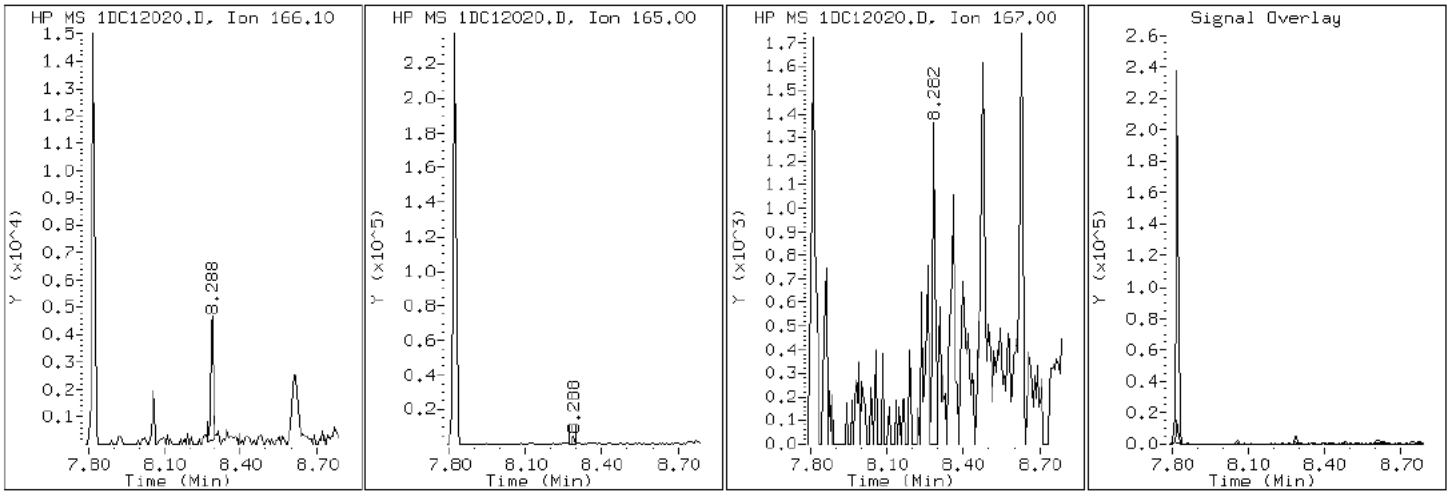
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

8 Fluorene



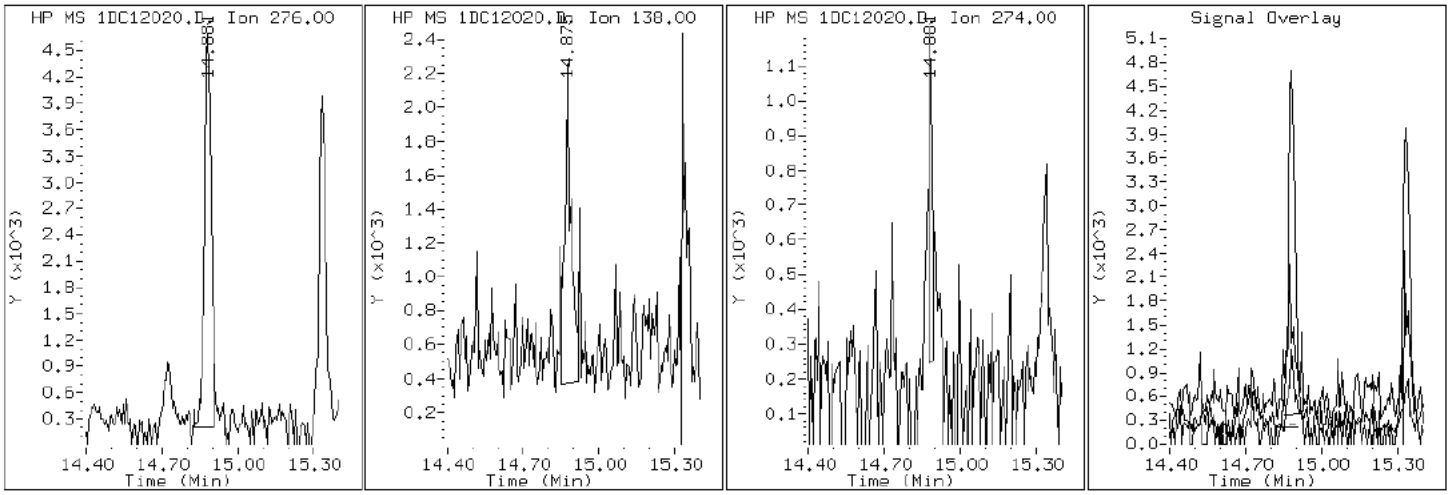
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

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



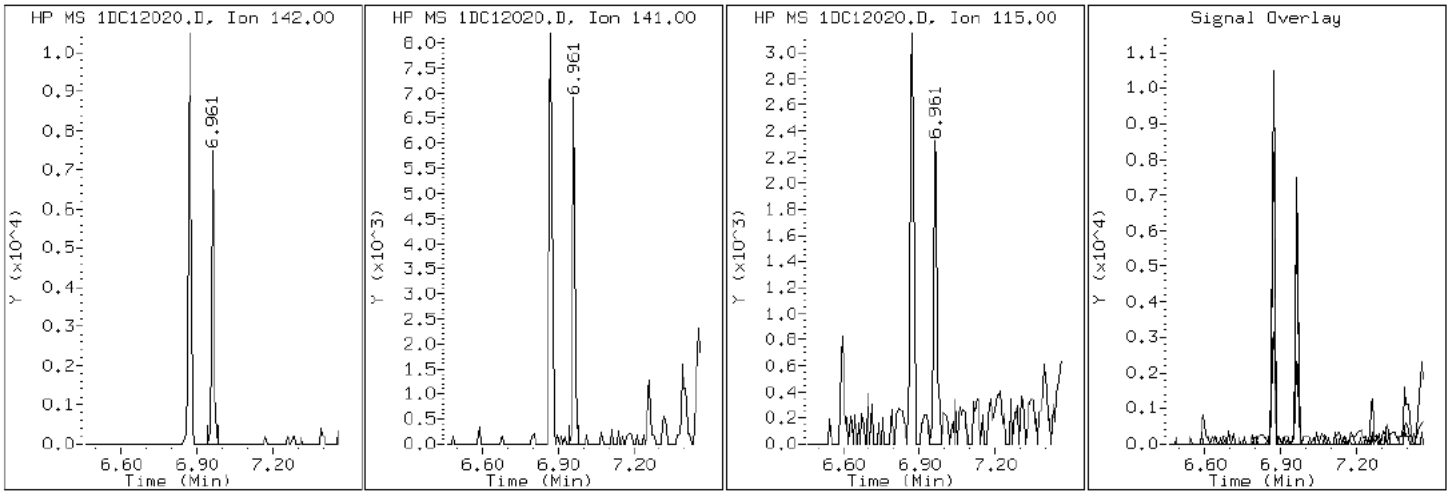
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

4 1-Methylnaphthalene



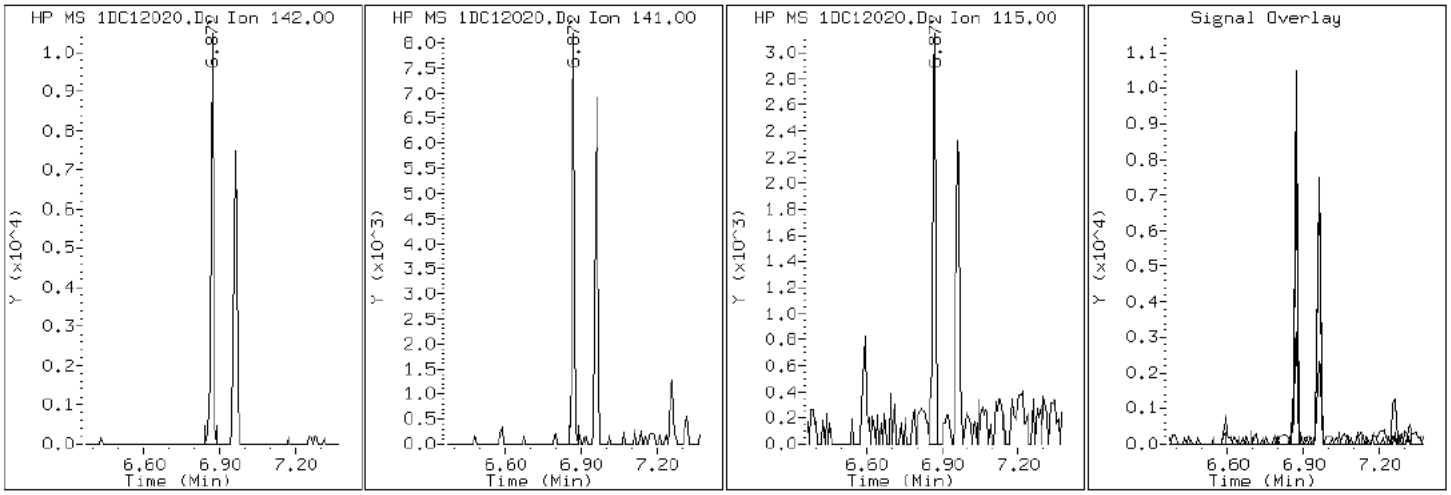
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

3 2-Methylnaphthalene



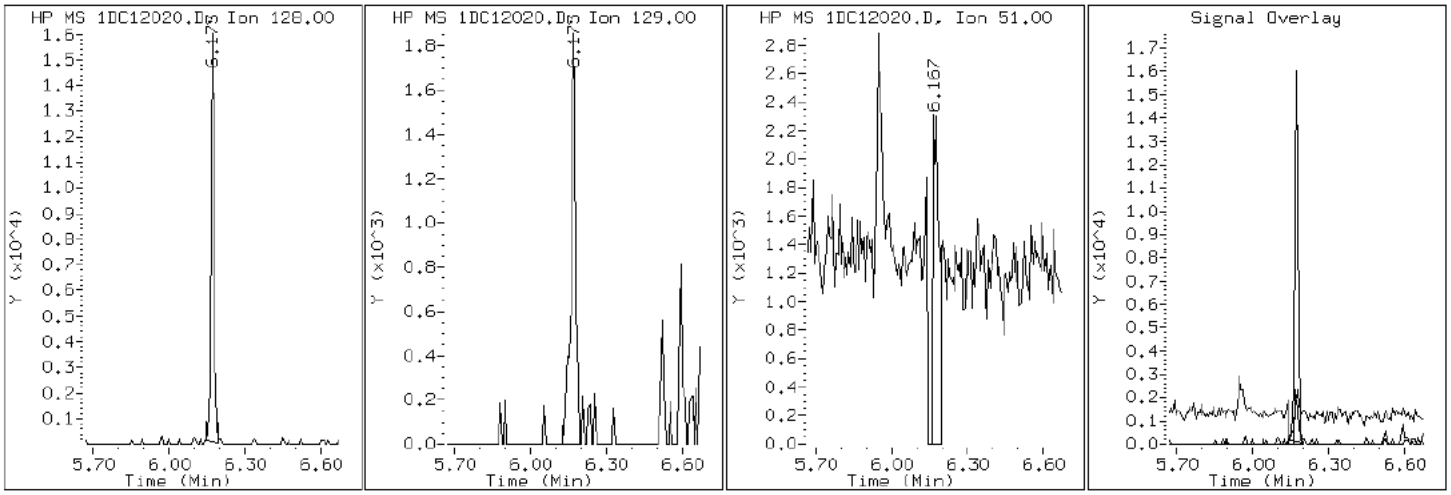
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

2 Naphthalene



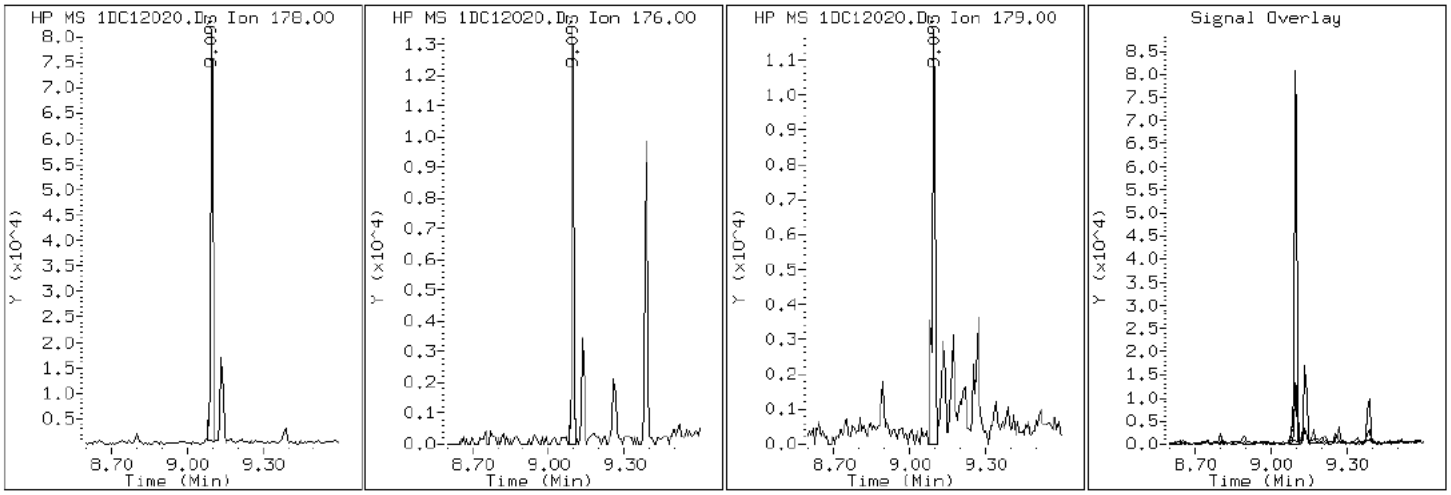
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

10 Phenanthrene



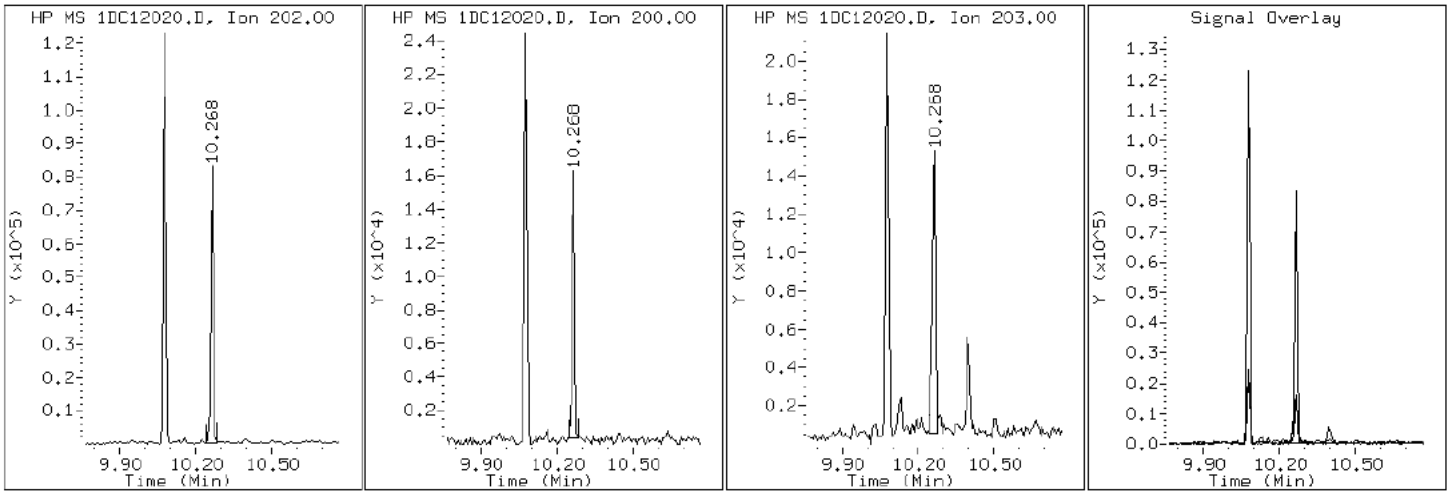
Data File: 1DC12020.D

Date: 12-MAR-2013 16:57

Client ID: FM0134B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-10-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12020.D
Inj. Date and Time: 12-MAR-2013 16:57
Instrument ID: BSMSD.i
Client ID: FM0134B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

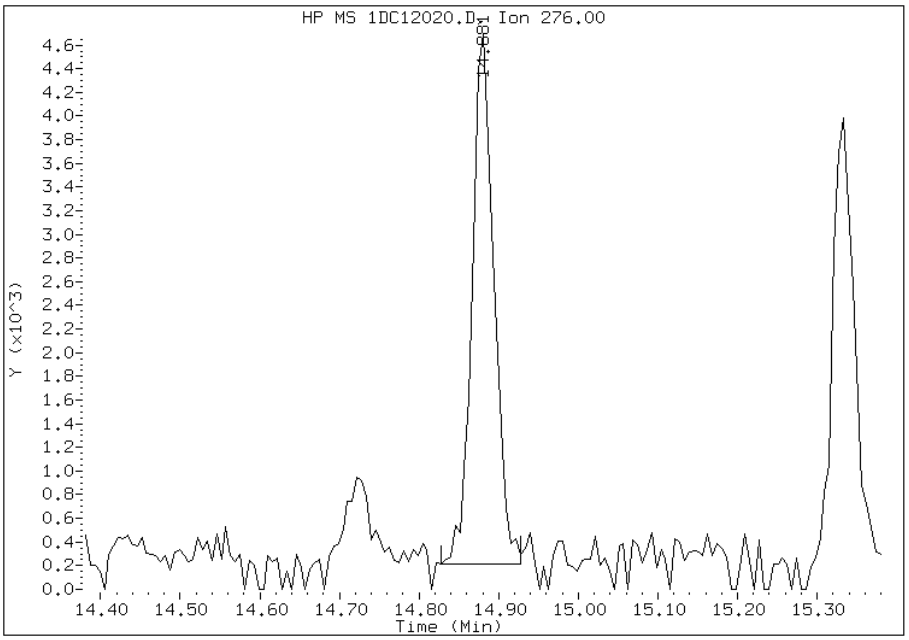
Processing Integration Results

RT: 14.88

Response: 8538

Amount: 0

Conc: 23



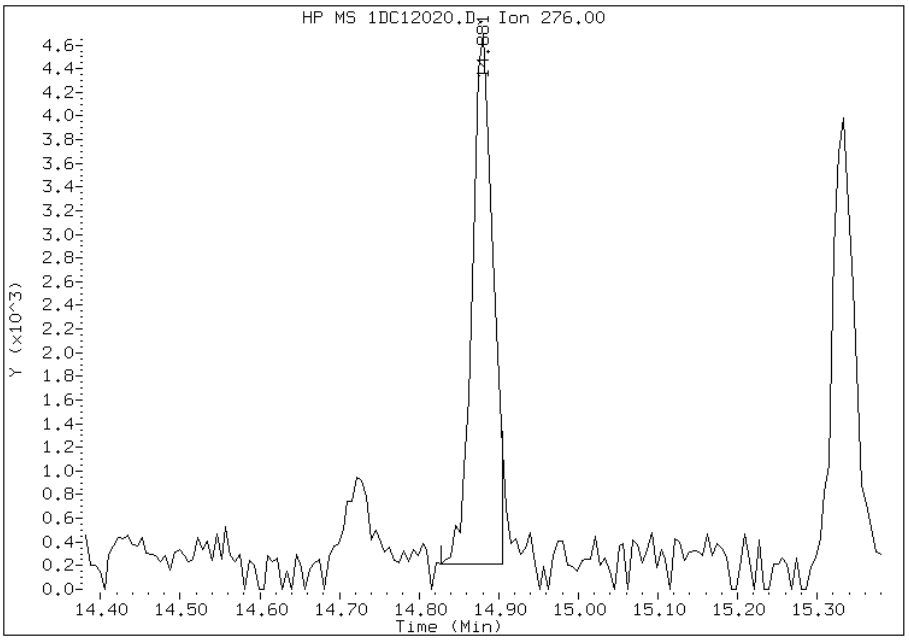
Manual Integration Results

RT: 14.88

Response: 8203

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: FM0134C-CS | Lab Sample ID: 680-88065-11

Matrix: Solid | Lab File ID: 1DC12021.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:40

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.05(g) | Date Analyzed: 03/12/2013 17:20

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

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

% Moisture: 30.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	57	U	57	7.1
120-12-7	Anthracene	27		12	6.0
56-55-3	Benzo[a]anthracene	210		11	5.6
50-32-8	Benzo[a]pyrene	170		15	7.4
205-99-2	Benzo[b]fluoranthene	340		17	8.7
191-24-2	Benzo[g,h,i]perylene	60		29	6.3
207-08-9	Benzo[k]fluoranthene	110		11	5.1
218-01-9	Chrysene	190		13	6.4
53-70-3	Dibenz(a,h)anthracene	21	J	29	5.9
206-44-0	Fluoranthene	330		29	5.7
86-73-7	Fluorene	29	U	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	60		29	10
90-12-0	1-Methylnaphthalene	18	J	57	6.3
91-57-6	2-Methylnaphthalene	24	J	57	10
91-20-3	Naphthalene	27	J	57	6.3
85-01-8	Phenanthrene	120		11	5.6
129-00-0	Pyrene	320		29	5.3

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12021.D
Lab Smp Id: 680-88065-A-11-A Client Smp ID: FM0134C-CS
Inj Date : 12-MAR-2013 17:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-11-A
Misc Info : 680-88065-A-11-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 21
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	30.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.154	6.149	(1.000)	2289984	40.0000	
* 6 Acenaphthene-d10	164	7.817	7.818	(1.000)	1437685	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2429206	40.0000	
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	241419	6.42665	610
* 17 Chrysene-d12	240	11.413	11.414	(1.000)	2134810	40.0000	
* 22 Perylene-d12	264	13.275	13.282	(1.000)	1316815	40.0000	
2 Naphthalene	128	6.172	6.173	(1.003)	17154	0.28003	26
3 2-Methylnaphthalene	142	6.871	6.872	(1.116)	10003	0.25634	24
4 1-Methylnaphthalene	142	6.965	6.960	(1.132)	7062	0.19326	18
5 Acenaphthylene	152	7.688	7.688	(0.983)	4052	0.06393	6.1
8 Fluorene	166	8.287	8.288	(1.060)	2286	0.05063	4.8
10 Phenanthrene	178	9.098	9.099	(1.002)	87258	1.26539	120
11 Anthracene	178	9.133	9.140	(1.006)	19805	0.28706	27
12 Carbazole	167	9.274	9.275	(1.021)	12871	0.20868	20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.079	10.080	(1.110)	252819	3.51323	330
15 Pyrene	202	10.267	10.268	(0.900)	225990	3.41272	320
16 Benzo(a)anthracene	228	11.395	11.396	(0.998)	127433	2.18034	210
18 Chrysene	228	11.436	11.443	(1.002)	122664	2.03289	190
19 Benzo(b)fluoranthene	252	12.723	12.730	(0.958)	121203	3.57588	340
20 Benzo(k)fluoranthene	252	12.752	12.765	(0.961)	42153	1.18779	110(Q)
21 Benzo(a)pyrene	252	13.175	13.188	(0.992)	59727	1.78069	170
23 Indeno(1,2,3-cd)pyrene	276	14.879	14.898	(1.121)	22682	0.63367	60(M)
24 Dibenzo(a,h)anthracene	278	14.915	14.927	(1.123)	7338	0.22198	21(Q)
25 Benzo(g,h,i)perylene	276	15.332	15.356	(1.155)	21605	0.63305	60

QC Flag Legend

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

Data File: 1DC12021.D

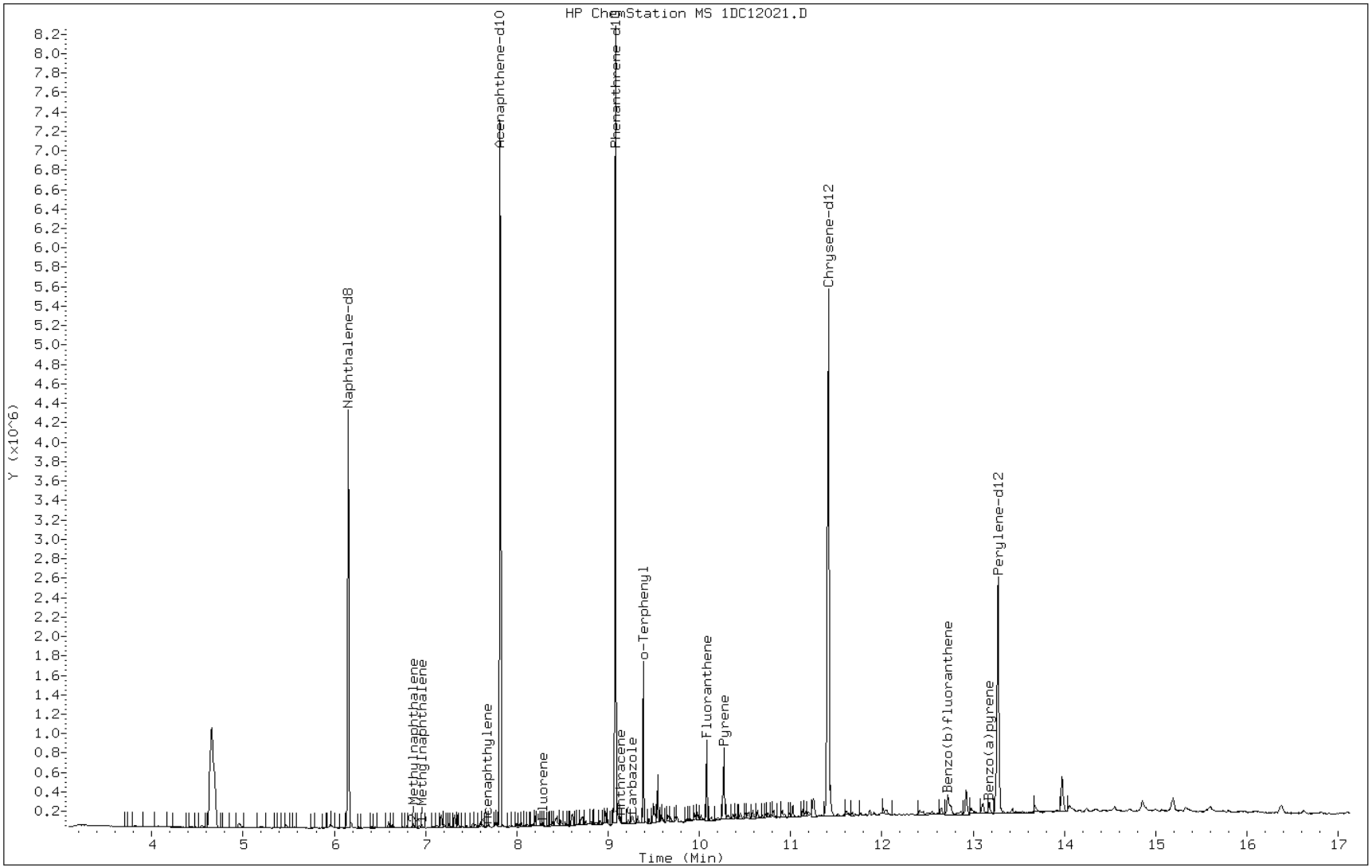
Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A

Operator: SCC



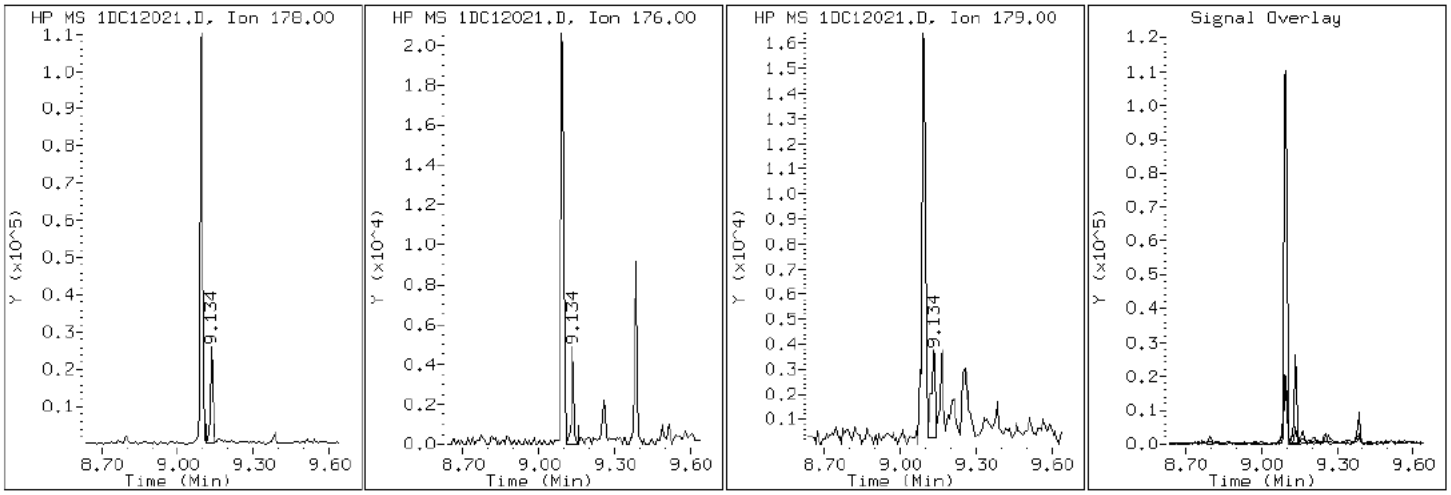
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

11 Anthracene



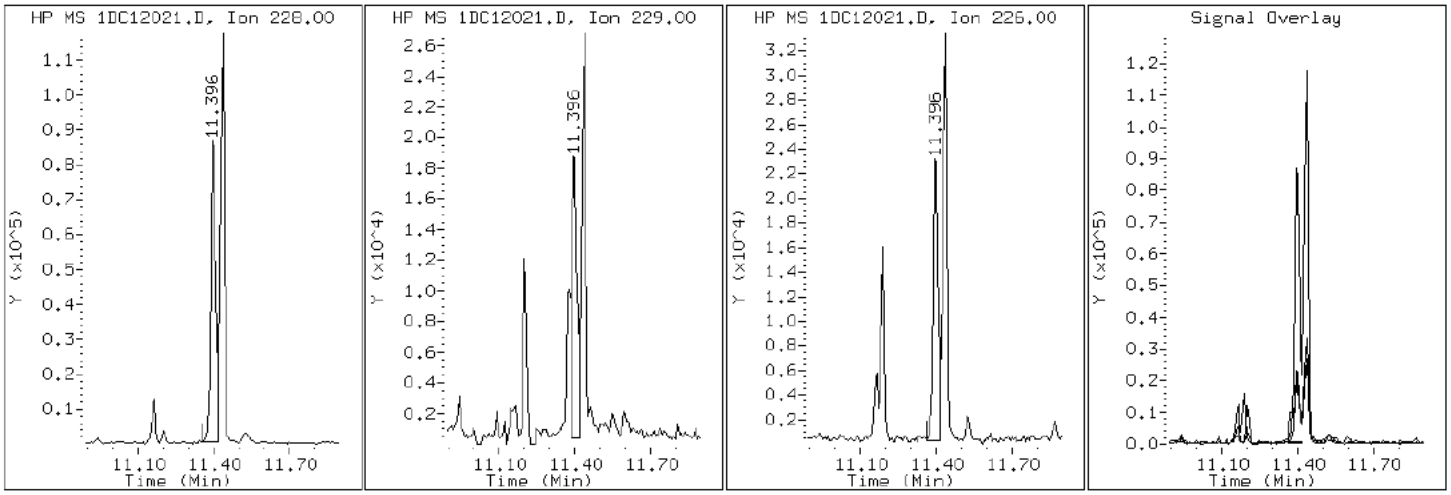
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

16 Benzo(a)anthracene



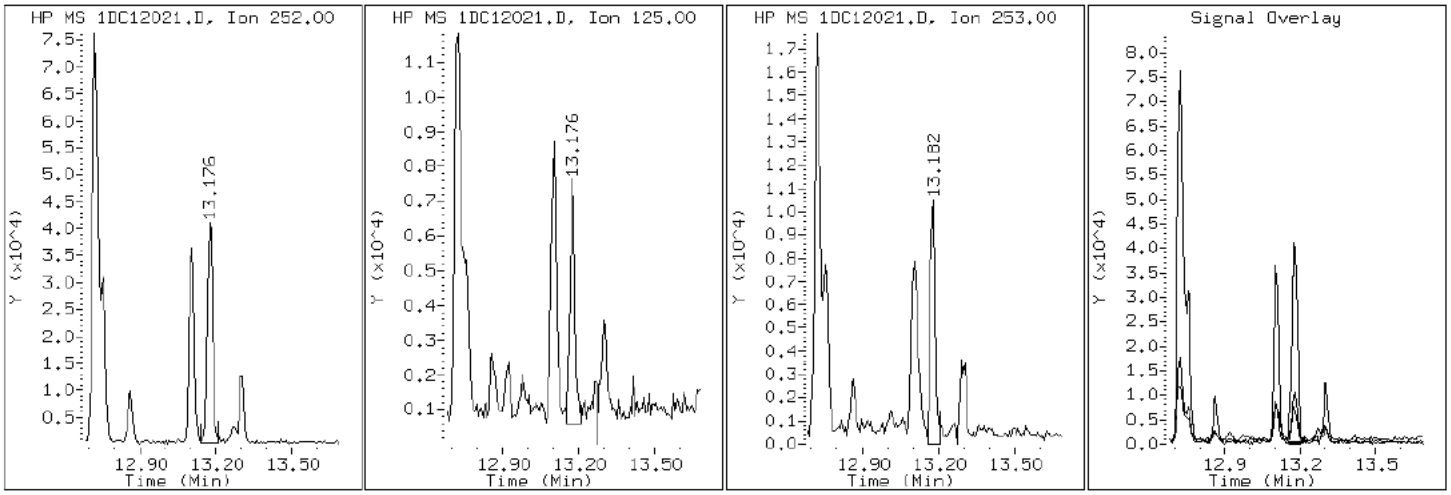
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

21 Benzo(a)pyrene



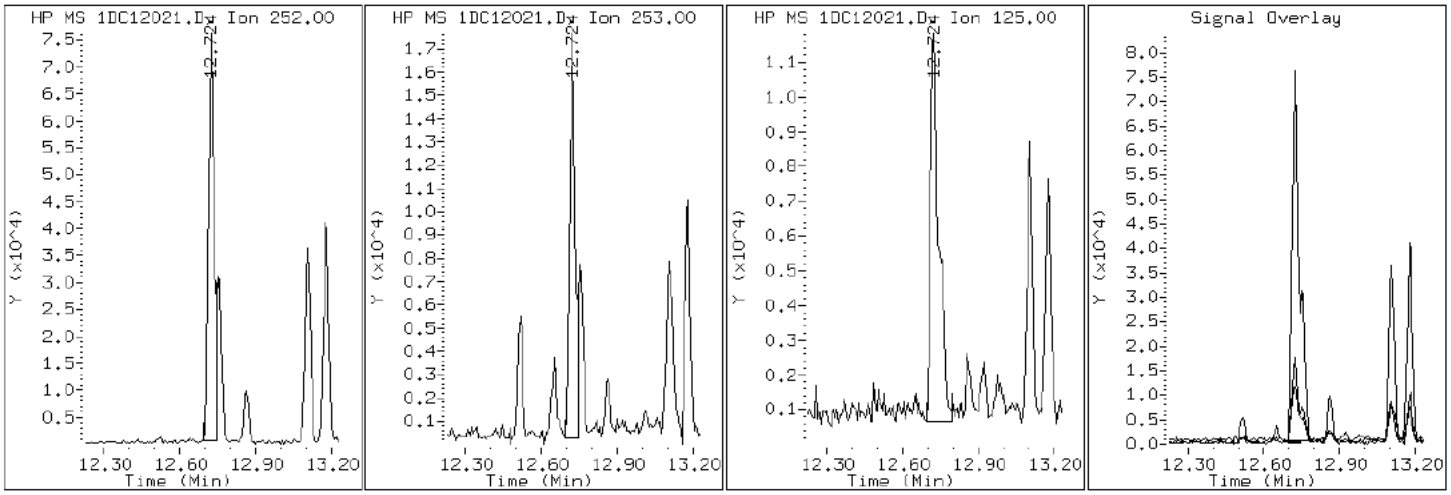
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

19 Benzo(b)fluoranthene



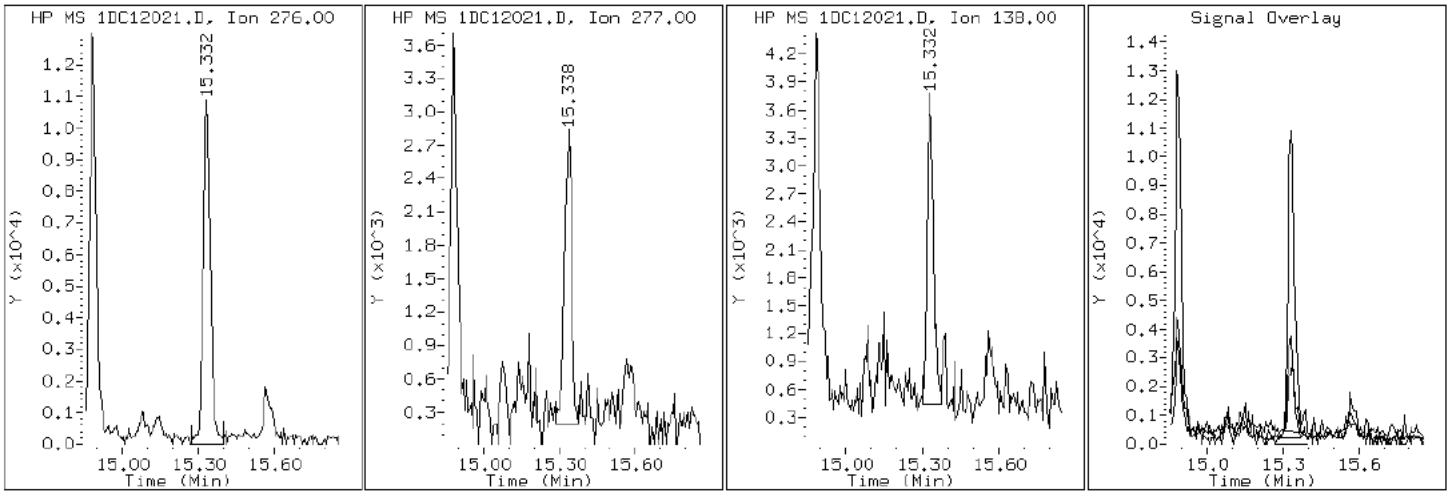
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

25 Benzo(g,h,i)perylene



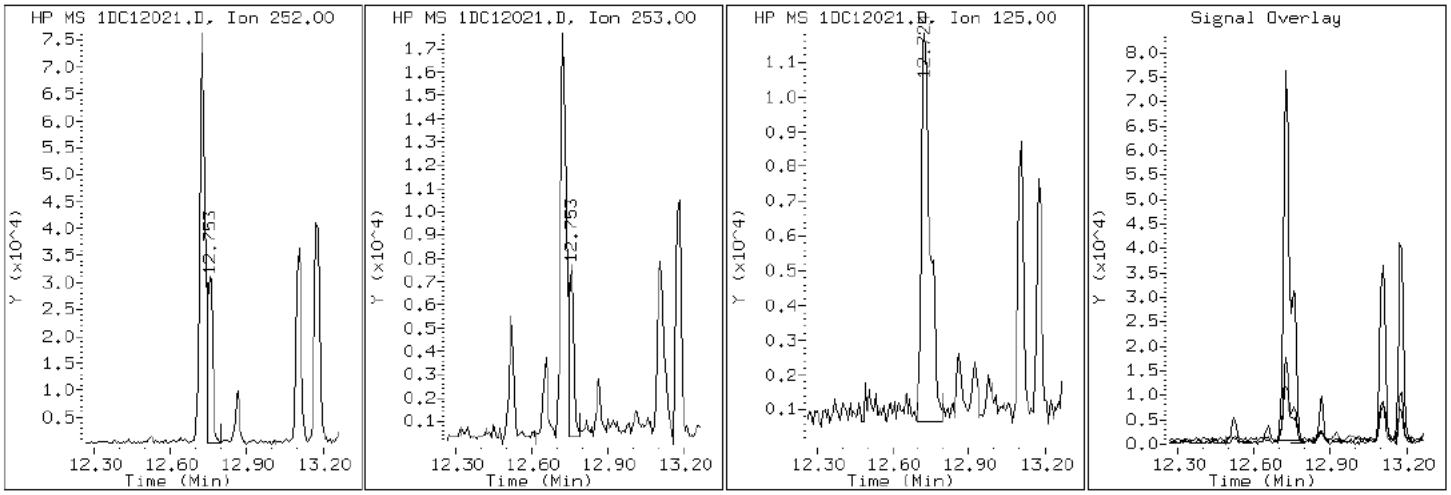
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

20 Benzo(k)fluoranthene



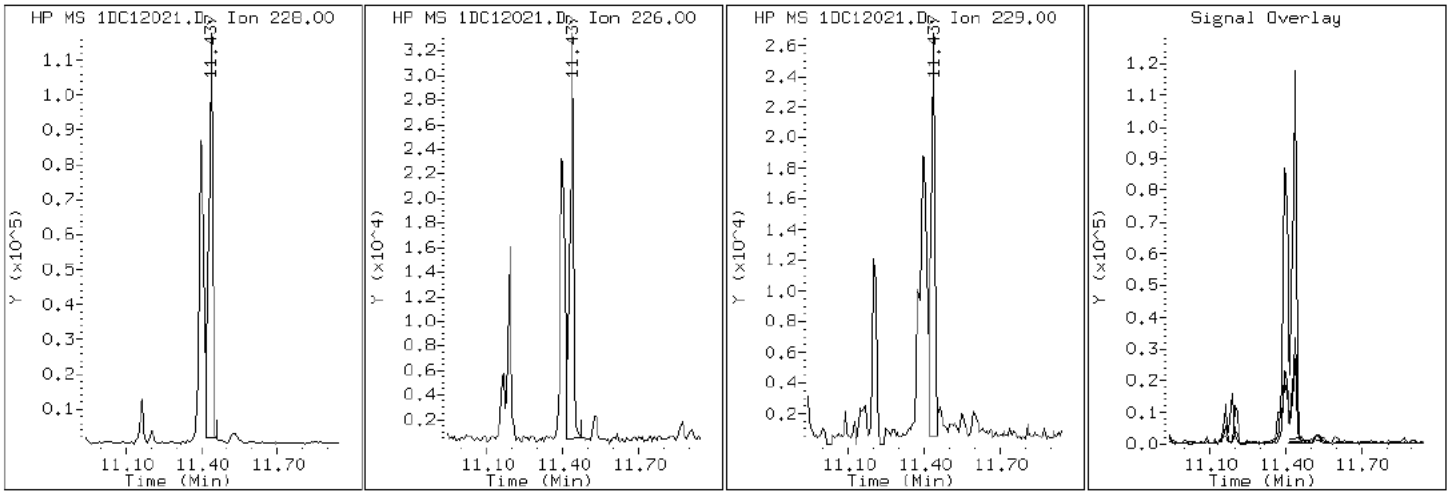
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

18 Chrysene



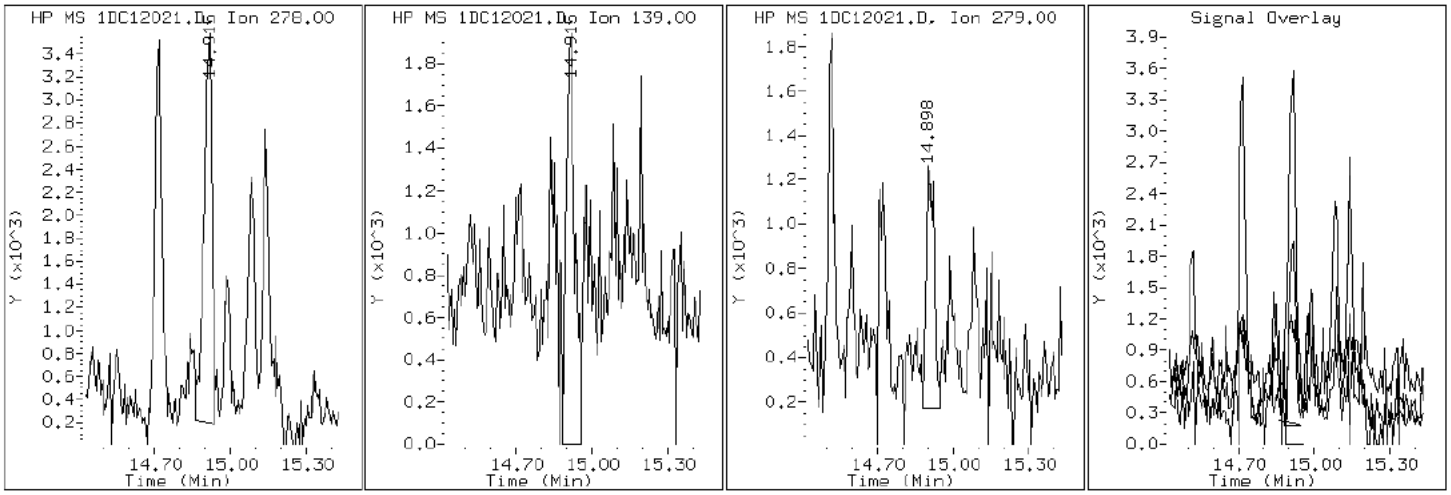
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

24 Dibenzo(a,h)anthracene



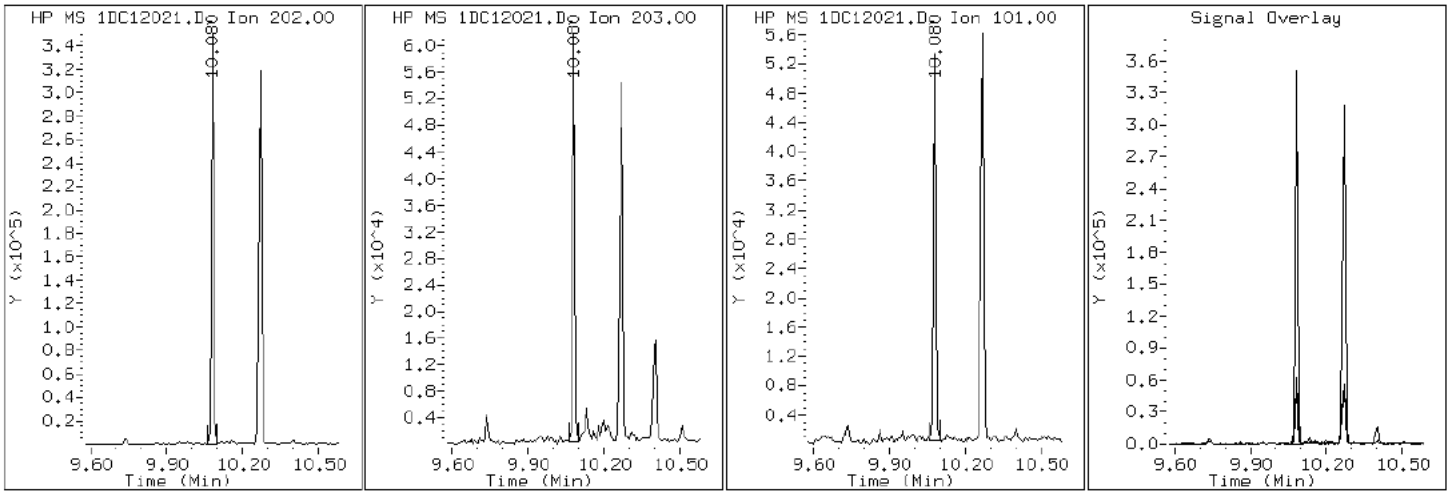
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

14 Fluoranthene



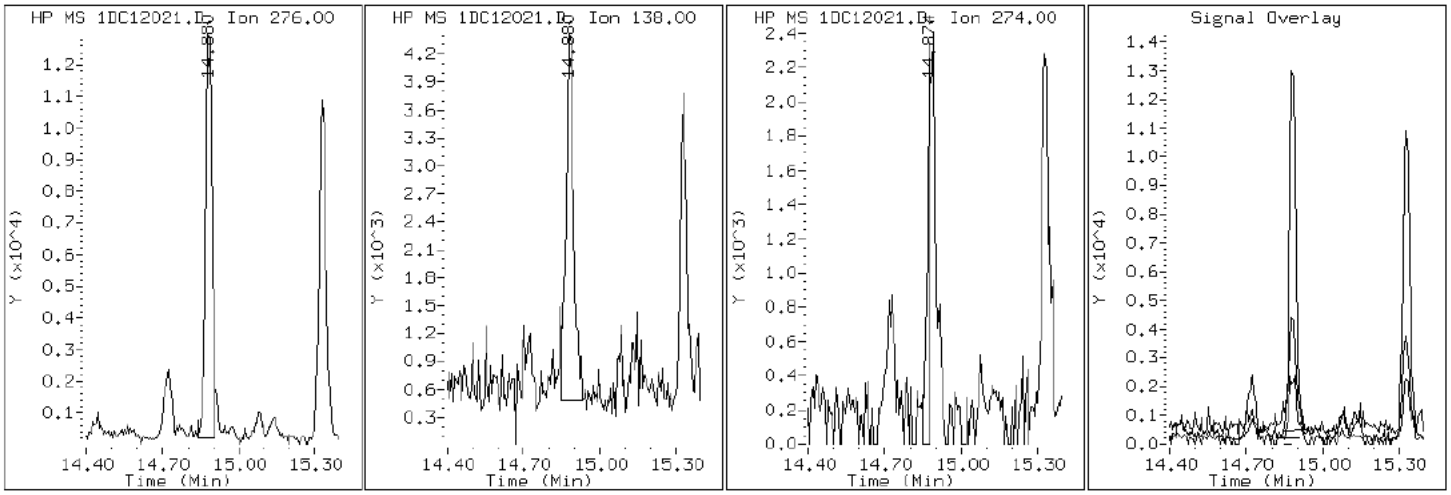
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

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



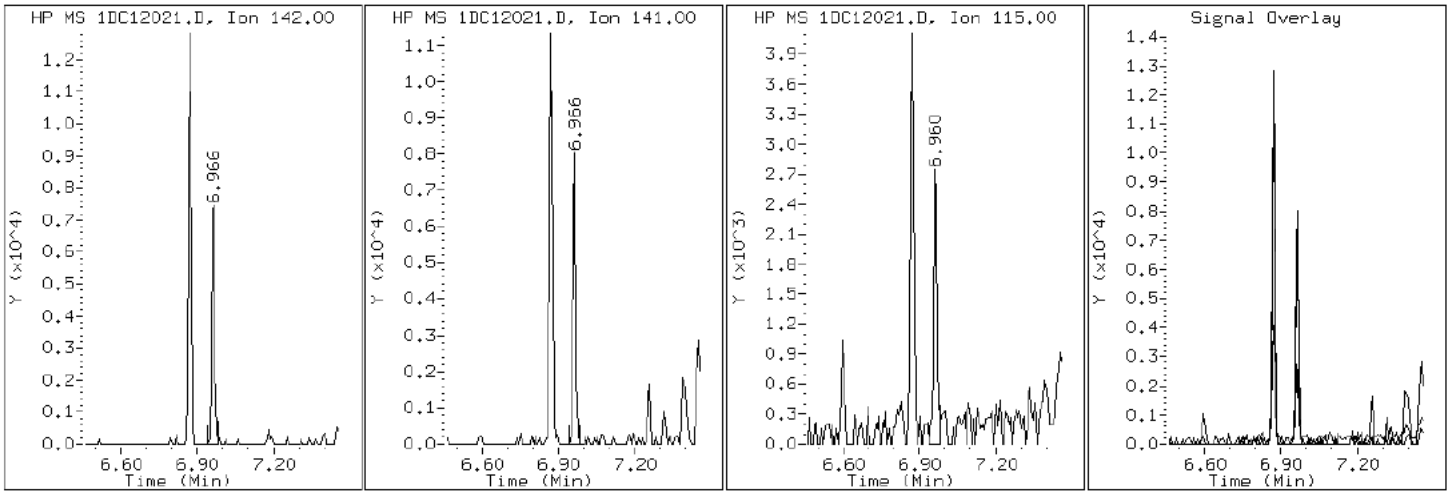
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

4 1-Methylnaphthalene



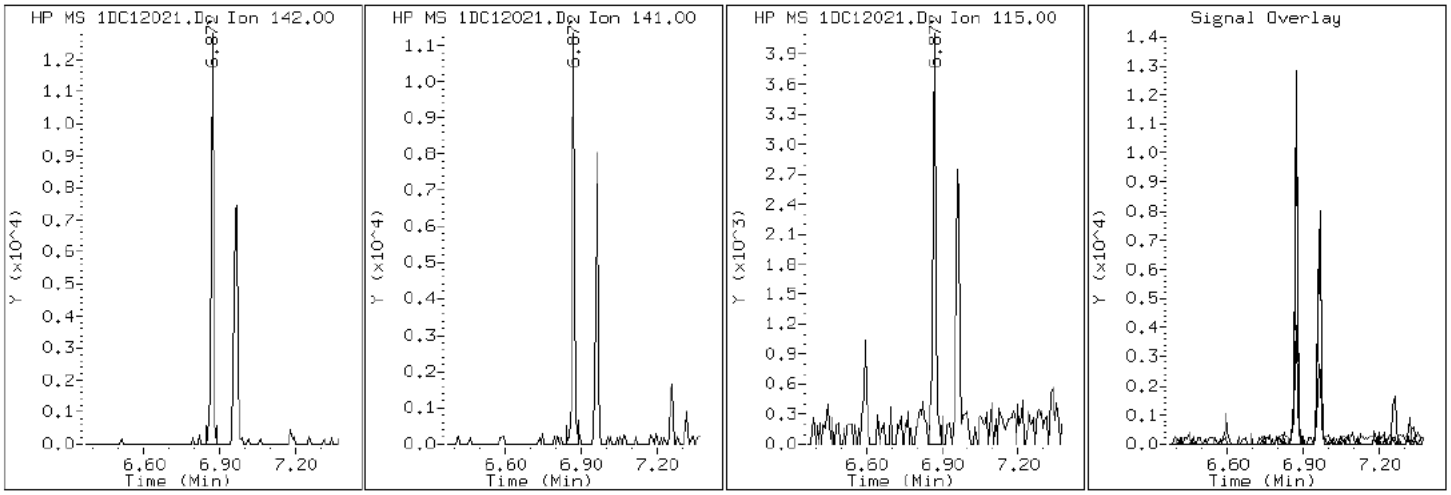
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

3 2-Methylnaphthalene



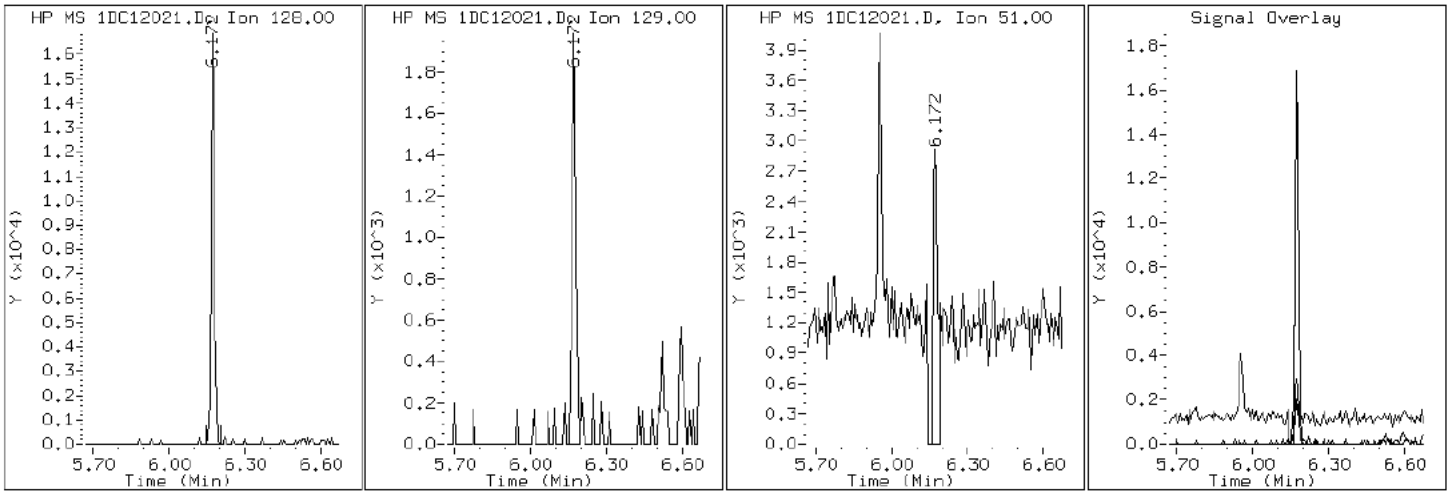
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

2 Naphthalene



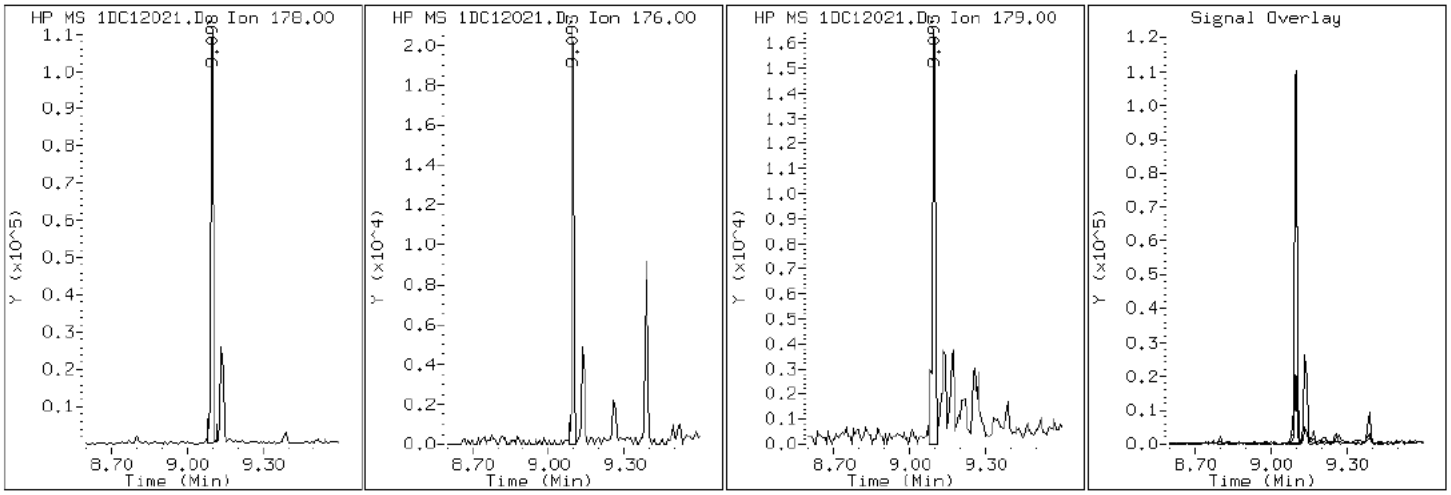
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

10 Phenanthrene



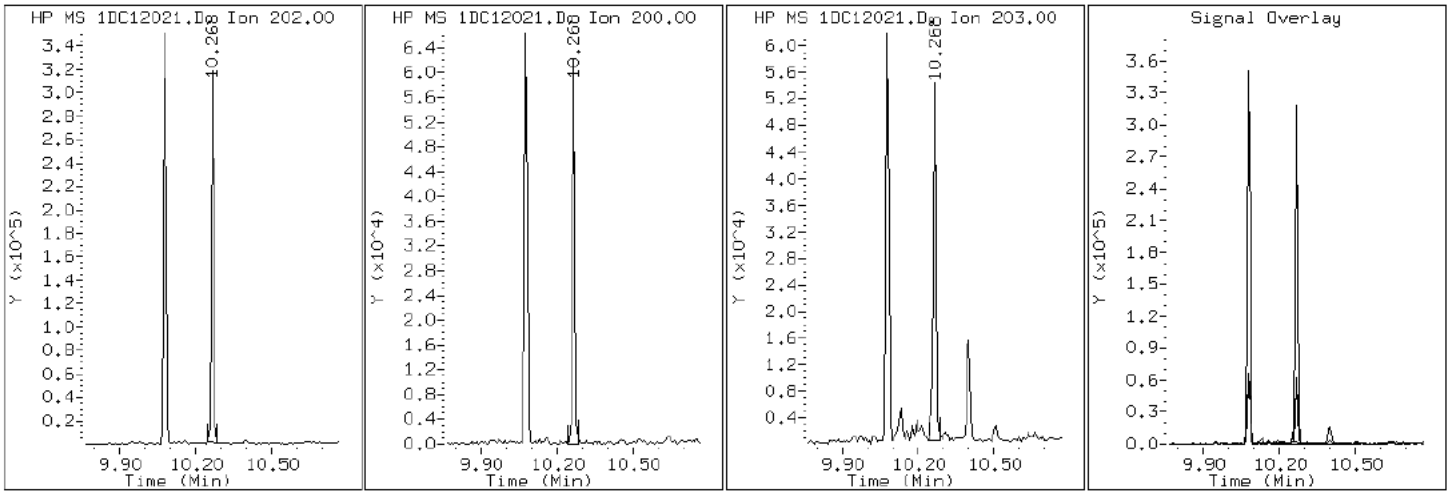
Data File: 1DC12021.D

Date: 12-MAR-2013 17:20

Client ID: FM0134C-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-11-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12021.D
Inj. Date and Time: 12-MAR-2013 17:20
Instrument ID: BSMSD.i
Client ID: FM0134C-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

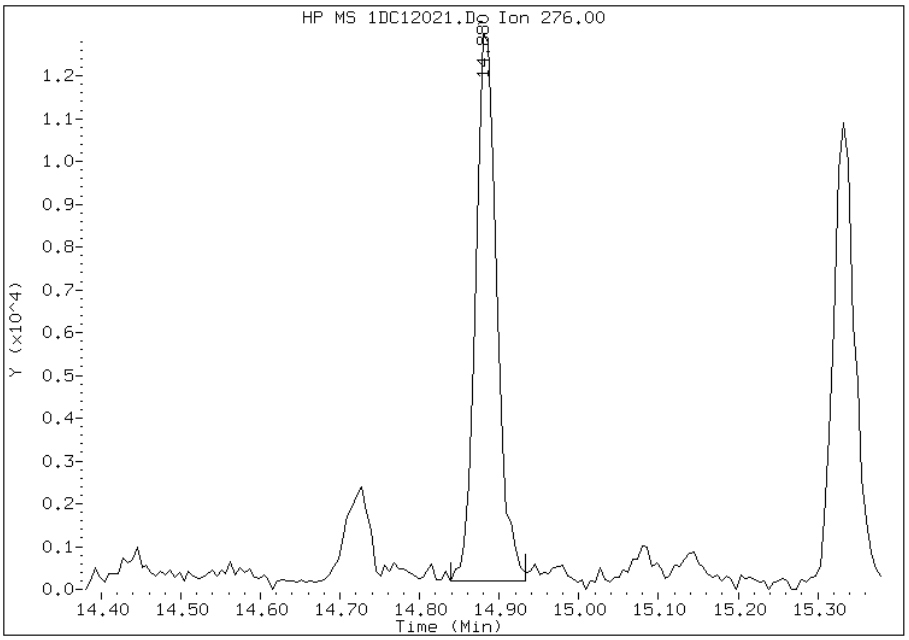
Processing Integration Results

RT: 14.88

Response: 23586

Amount: 1

Conc: 63



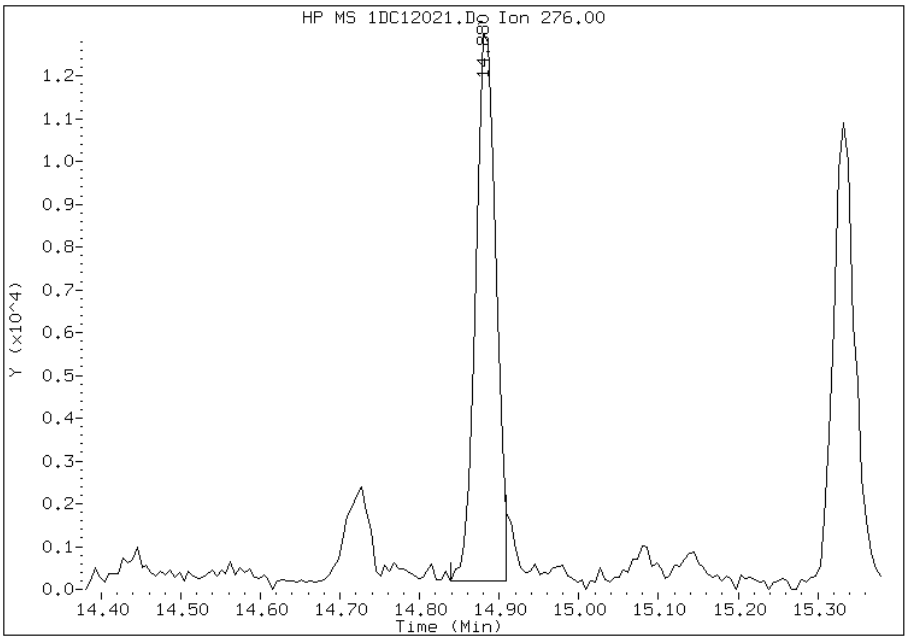
Manual Integration Results

RT: 14.88

Response: 22682

Amount: 1

Conc: 60



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0278A-CS | Lab Sample ID: 680-88065-12

Matrix: Solid | Lab File ID: 1DC12022.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 14:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.96(g) | Date Analyzed: 03/12/2013 17:42

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

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

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	46	J	49	6.1
120-12-7	Anthracene	48		10	5.2
56-55-3	Benzo[a]anthracene	180		9.8	4.8
50-32-8	Benzo[a]pyrene	240		13	6.4
205-99-2	Benzo[b]fluoranthene	450		15	7.5
191-24-2	Benzo[g,h,i]perylene	110		25	5.4
207-08-9	Benzo[k]fluoranthene	130		9.8	4.4
218-01-9	Chrysene	310		11	5.5
53-70-3	Dibenz(a,h)anthracene	36		25	5.0
206-44-0	Fluoranthene	210		25	4.9
86-73-7	Fluorene	19	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	87		25	8.7
90-12-0	1-Methylnaphthalene	70		49	5.4
91-57-6	2-Methylnaphthalene	83		49	8.7
91-20-3	Naphthalene	48	J	49	5.4
85-01-8	Phenanthrene	130		9.8	4.8
129-00-0	Pyrene	300		25	4.5

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12022.D
Lab Smp Id: 680-88065-A-12-A Client Smp ID: CV0278A-CS
Inj Date : 12-MAR-2013 17:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-12-A
Misc Info : 680-88065-A-12-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	18.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.151	6.149	(1.000)	2317776	40.0000	
* 6 Acenaphthene-d10	164	7.819	7.818	(1.000)	1456427	40.0000	
* 9 Phenanthrene-d10	188	9.083	9.075	(1.000)	2521265	40.0000	
$ 13 o-Terphenyl	230	9.388	9.386	(1.034)	277305	7.11241	580
* 17 Chrysene-d12	240	11.421	11.414	(1.000)	2065190	40.0000	
* 22 Perylene-d12	264	13.290	13.282	(1.000)	1248920	40.0000	
2 Naphthalene	128	6.174	6.173	(1.004)	36286	0.58524	48
3 2-Methylnaphthalene	142	6.868	6.872	(1.117)	40153	1.01664	83
4 1-Methylnaphthalene	142	6.962	6.960	(1.132)	31559	0.85329	70
5 Acenaphthylene	152	7.690	7.688	(0.983)	36488	0.56826	46
8 Fluorene	166	8.290	8.288	(1.060)	10386	0.22705	18
10 Phenanthrene	178	9.094	9.099	(1.001)	117885	1.64712	130
11 Anthracene	178	9.136	9.140	(1.006)	41730	0.58276	48
12 Carbazole	167	9.277	9.275	(1.021)	18977	0.29645	24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.082	10.080	(1.110)	195887	2.62270	210
15 Pyrene	202	10.270	10.268	(0.899)	234072	3.65393	300
16 Benzo(a)anthracene	228	11.404	11.396	(0.998)	125451	2.21879	180
18 Chrysene	228	11.445	11.443	(1.002)	218231	3.73863	300
19 Benzo(b)fluoranthene	252	12.737	12.730	(0.958)	178060	5.53894	450
20 Benzo(k)fluoranthene	252	12.773	12.765	(0.961)	53001	1.57465	130
21 Benzo(a)pyrene	252	13.196	13.188	(0.993)	94445	2.96884	240
23 Indeno(1,2,3-cd)pyrene	276	14.905	14.898	(1.122)	36221	1.06691	87(M)
24 Dibenzo(a,h)anthracene	278	14.929	14.927	(1.123)	13837	0.44133	36
25 Benzo(g,h,i)perylene	276	15.358	15.356	(1.156)	43809	1.35344	110

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC12022.D

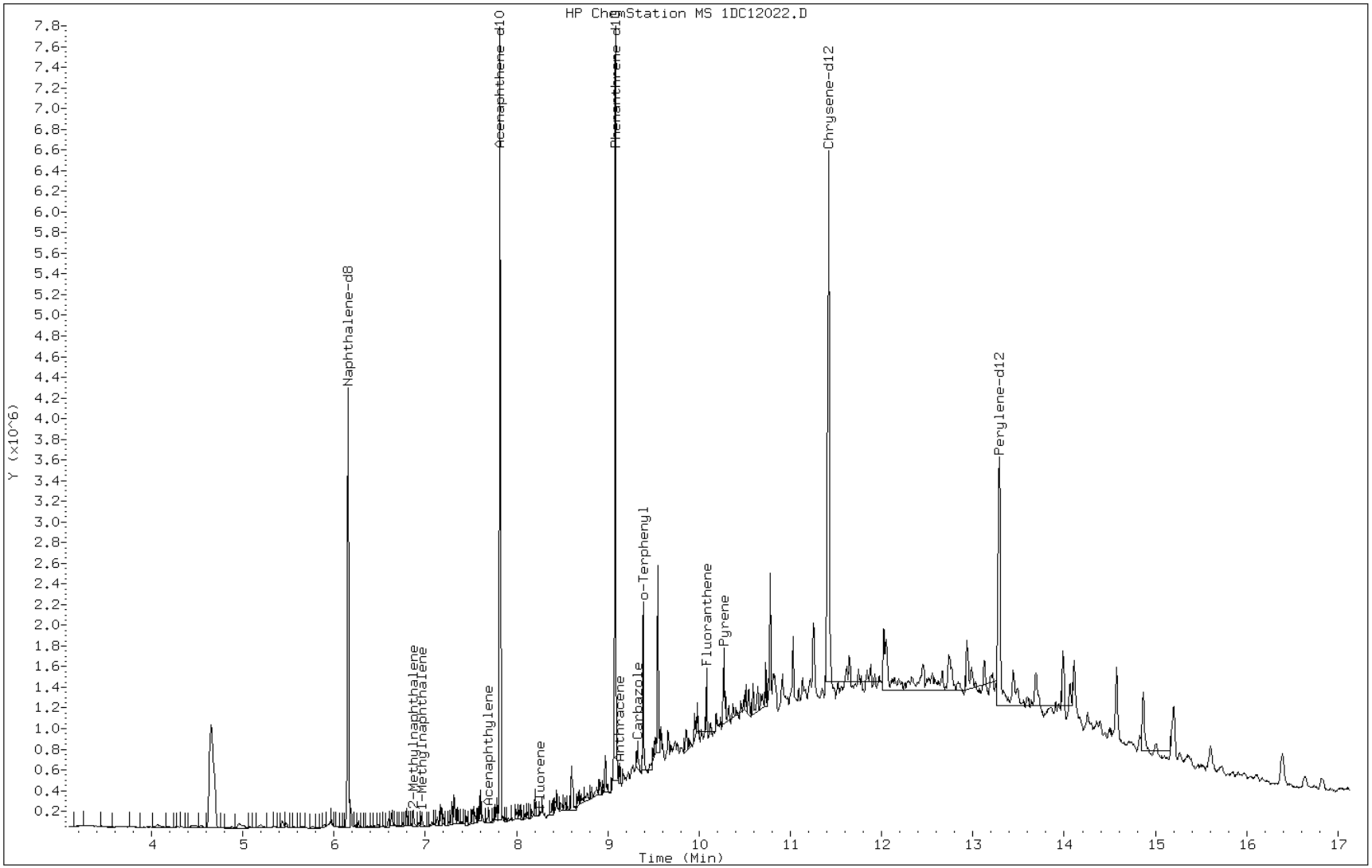
Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A

Operator: SCC



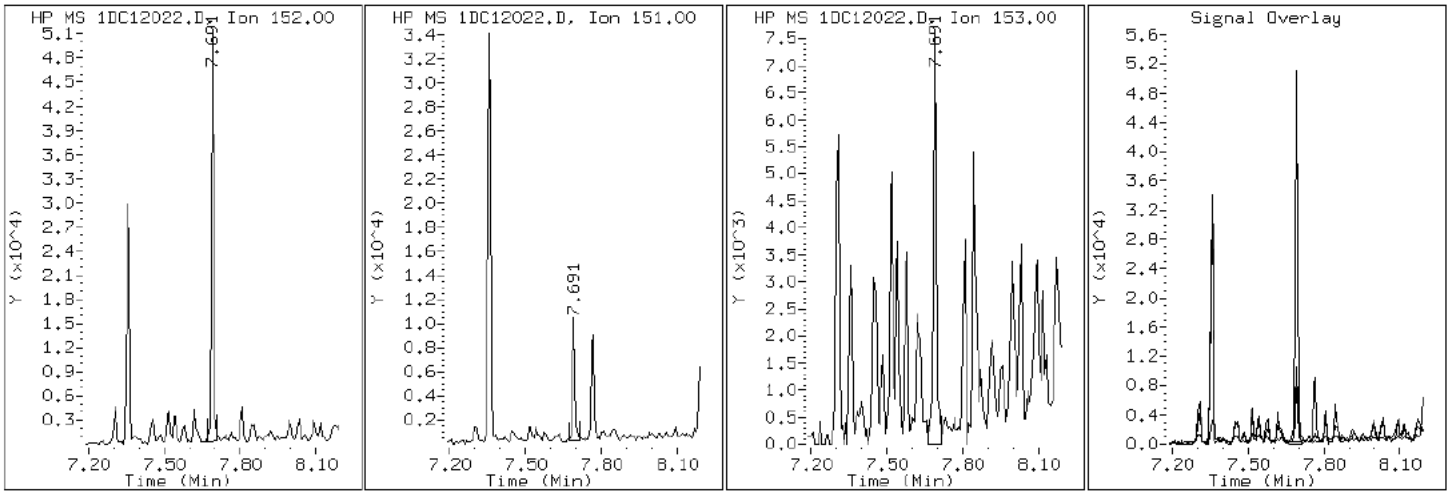
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

5 Acenaphthylene



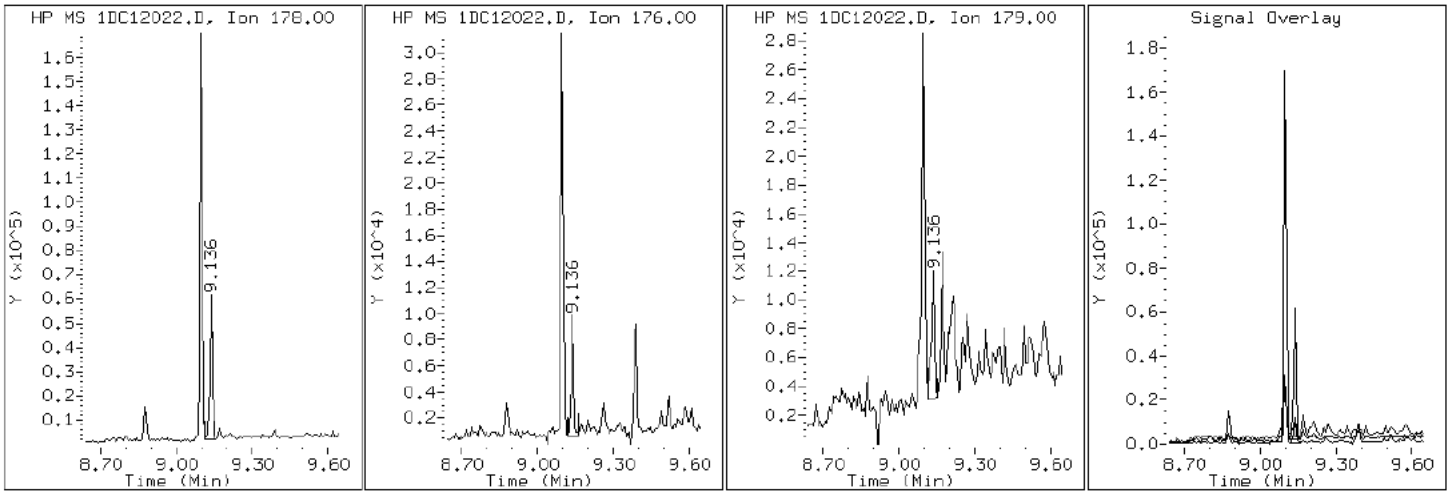
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

11 Anthracene



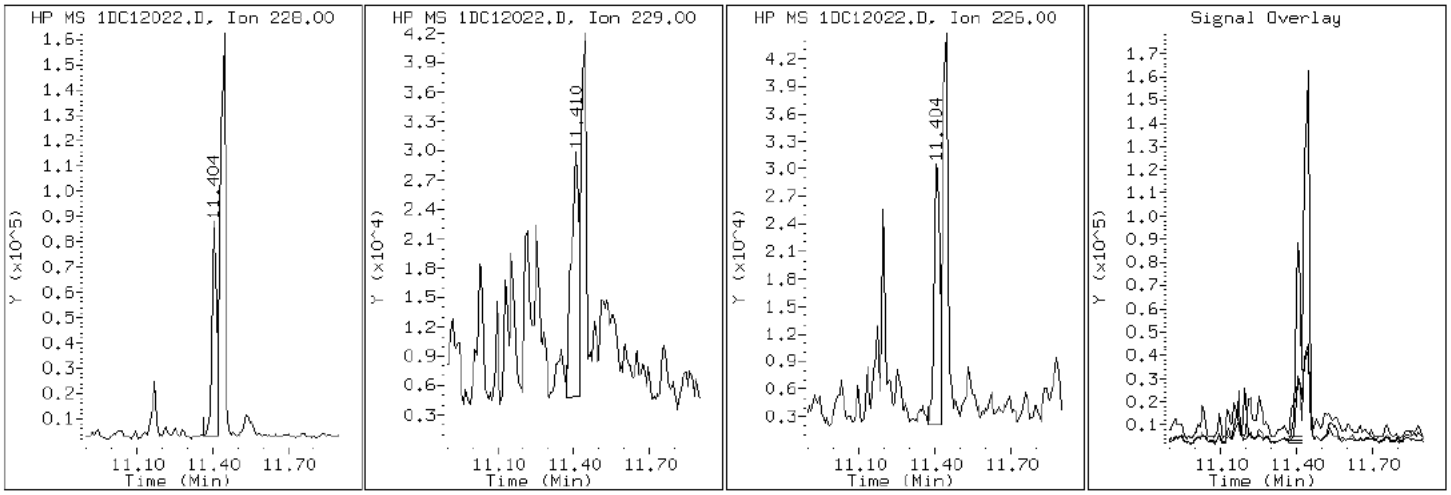
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

16 Benzo(a)anthracene



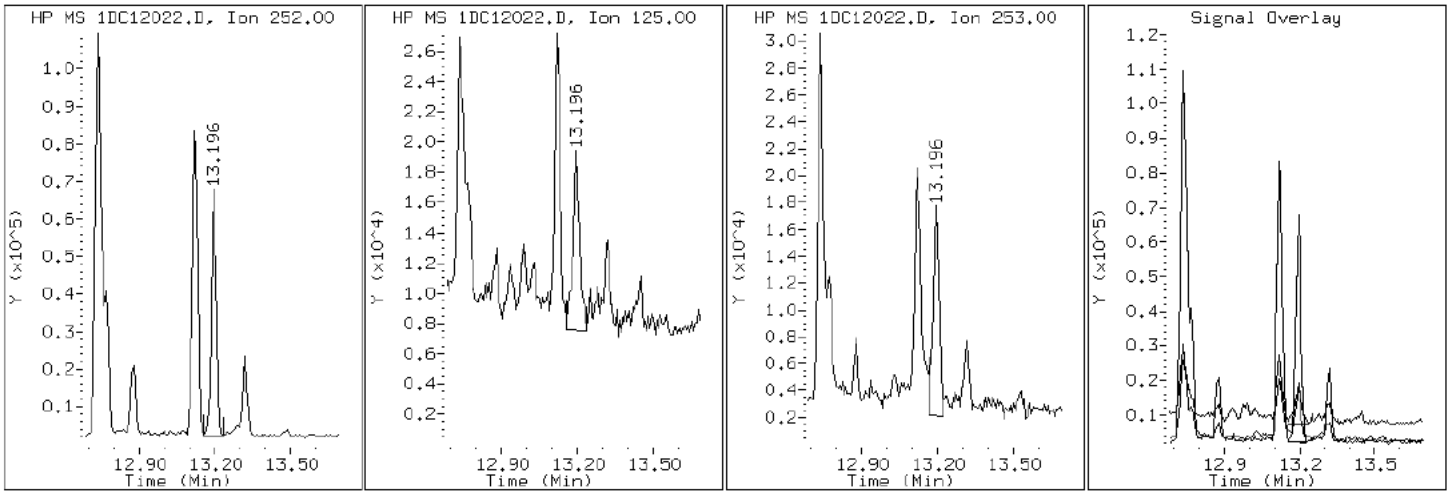
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

21 Benzo(a)pyrene



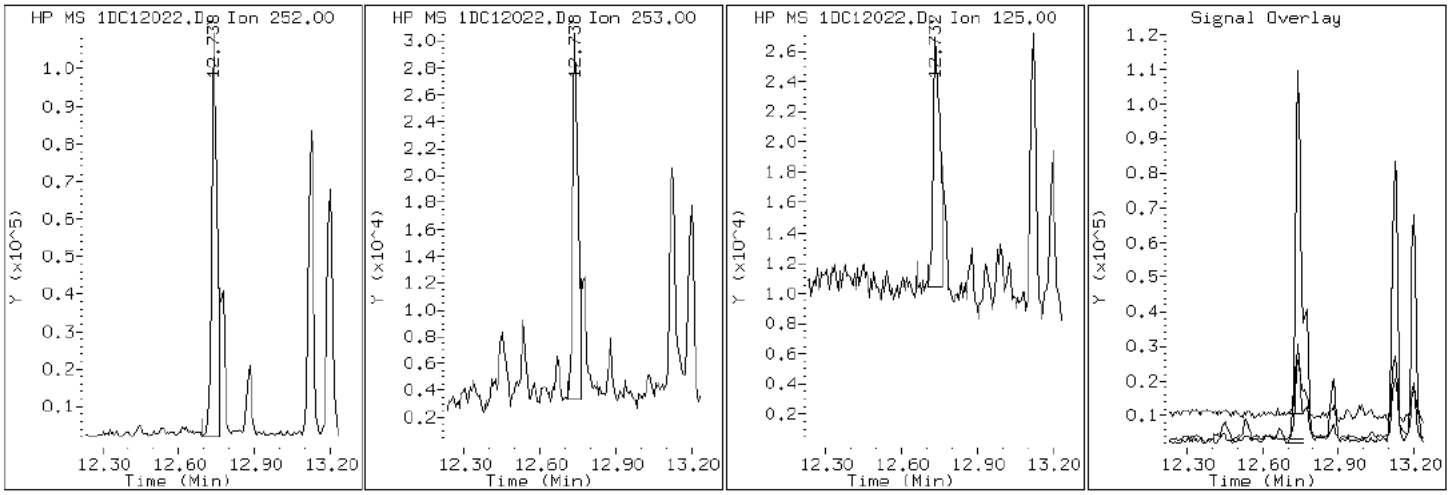
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

19 Benzo(b)fluoranthene



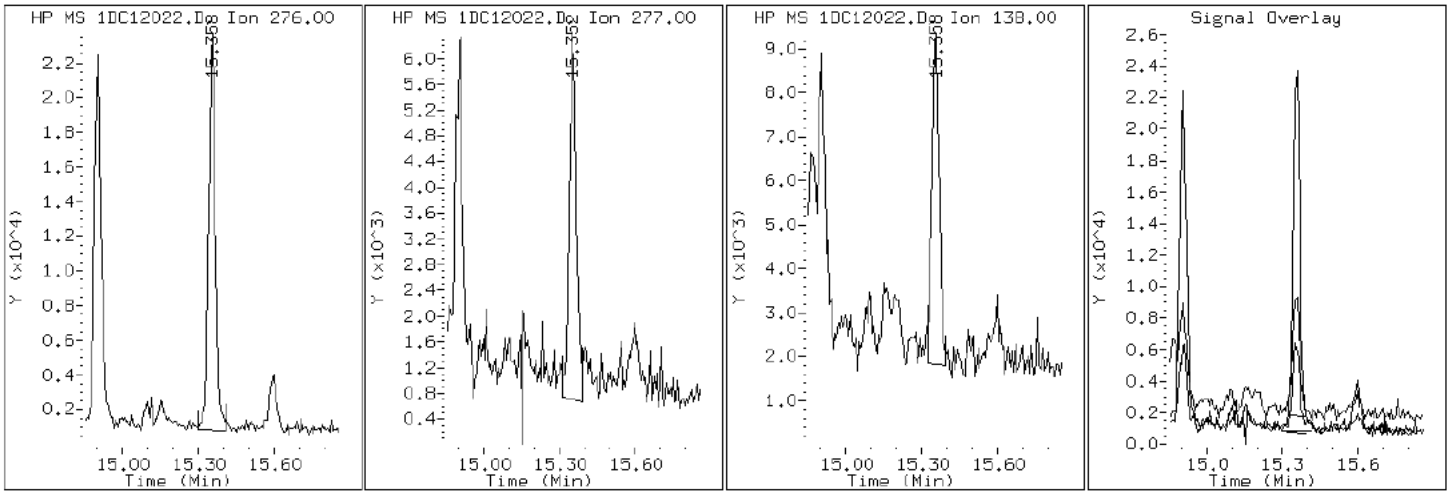
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

25 Benzo(g,h,i)perylene



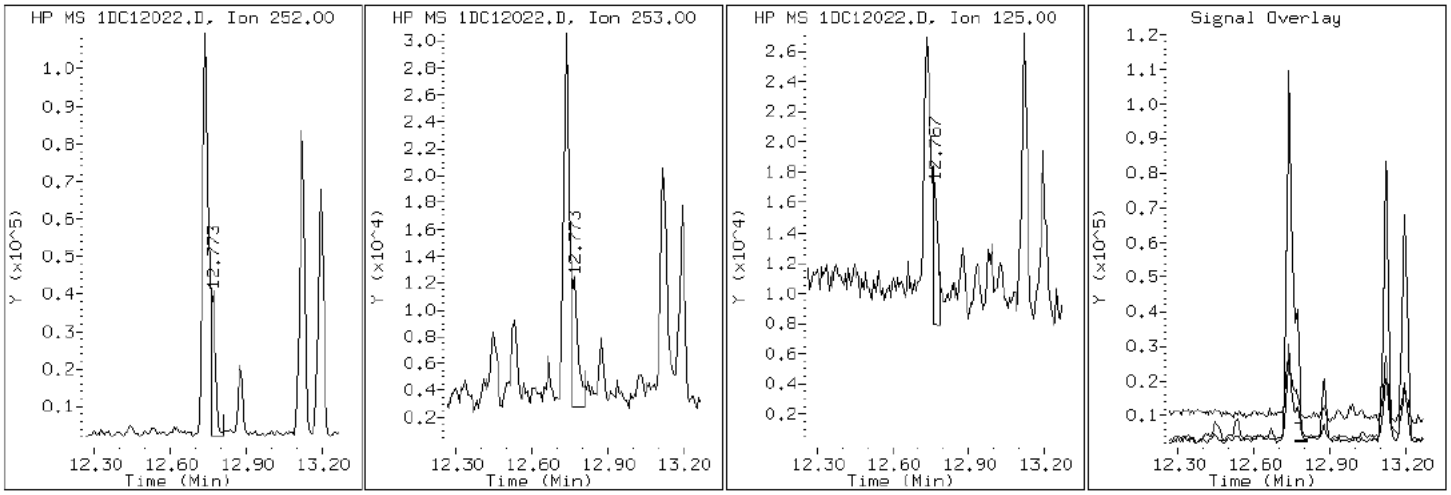
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

20 Benzo(k)fluoranthene



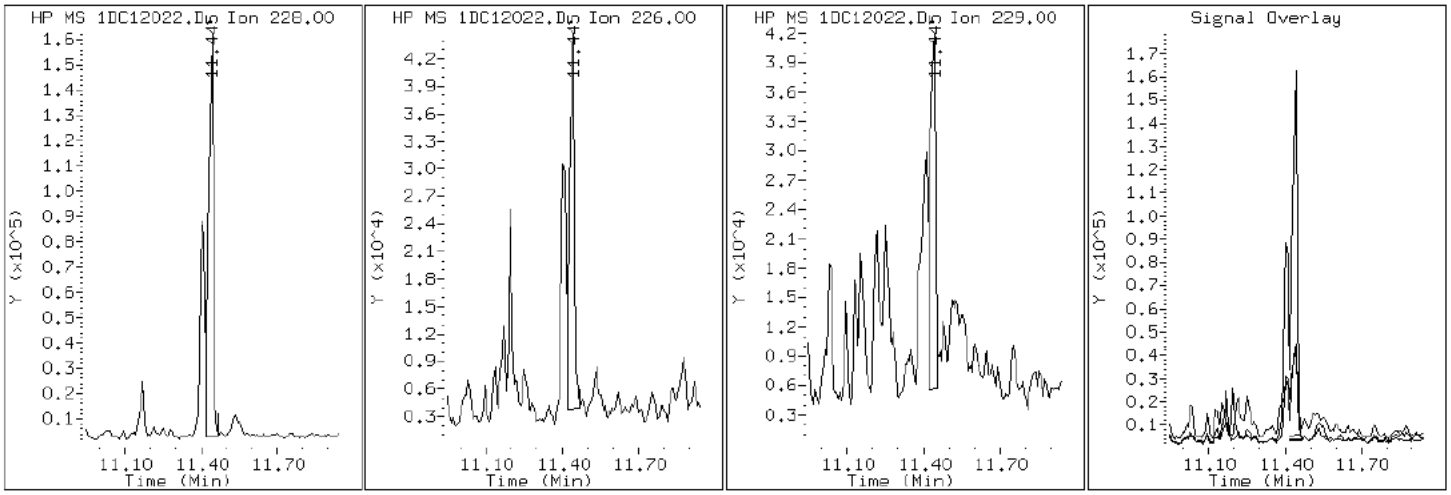
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

18 Chrysene



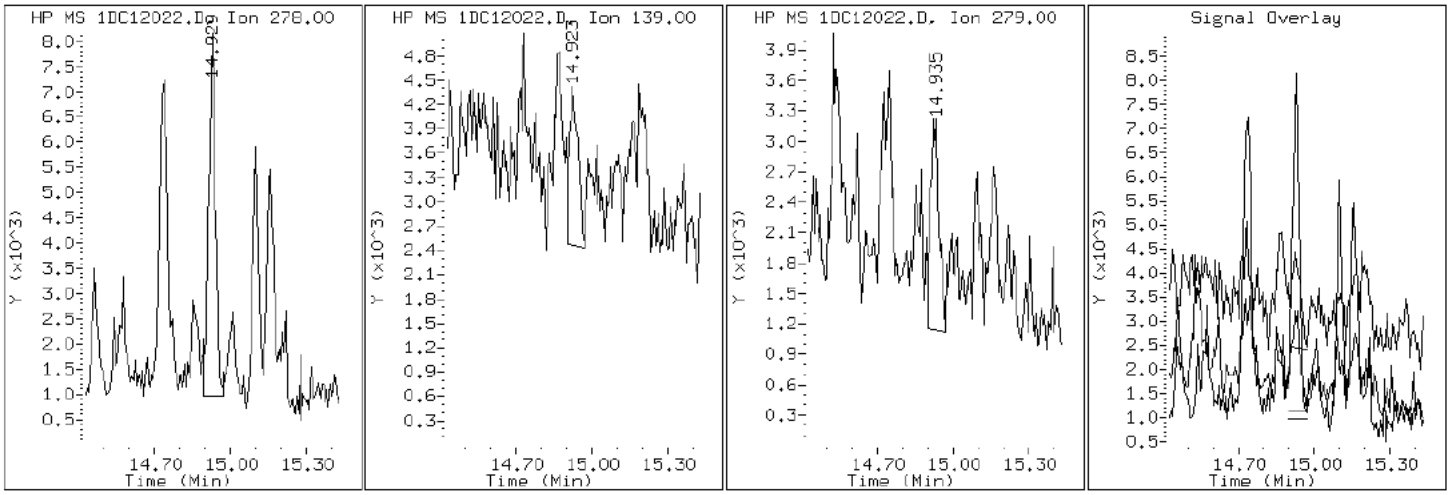
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

24 Dibenzo(a,h)anthracene



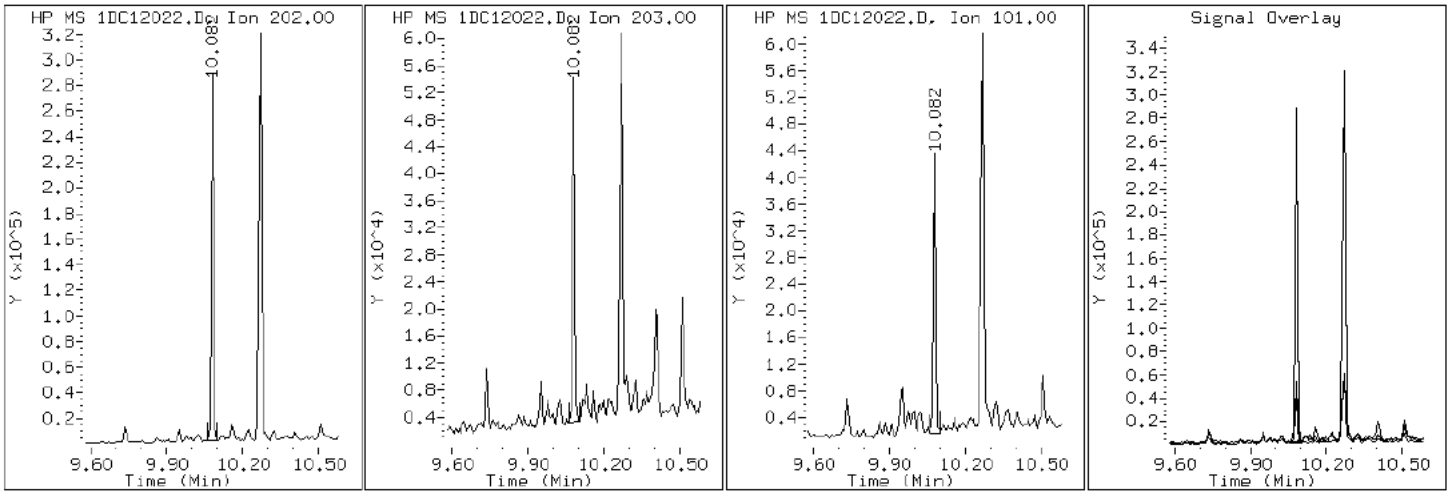
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

14 Fluoranthene



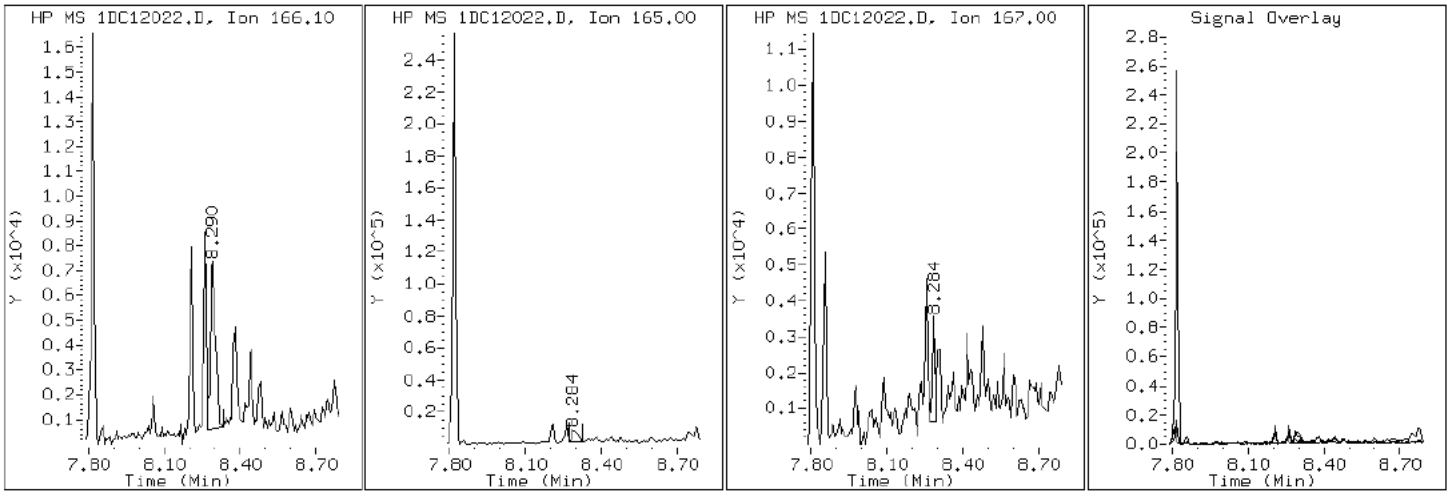
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

8 Fluorene



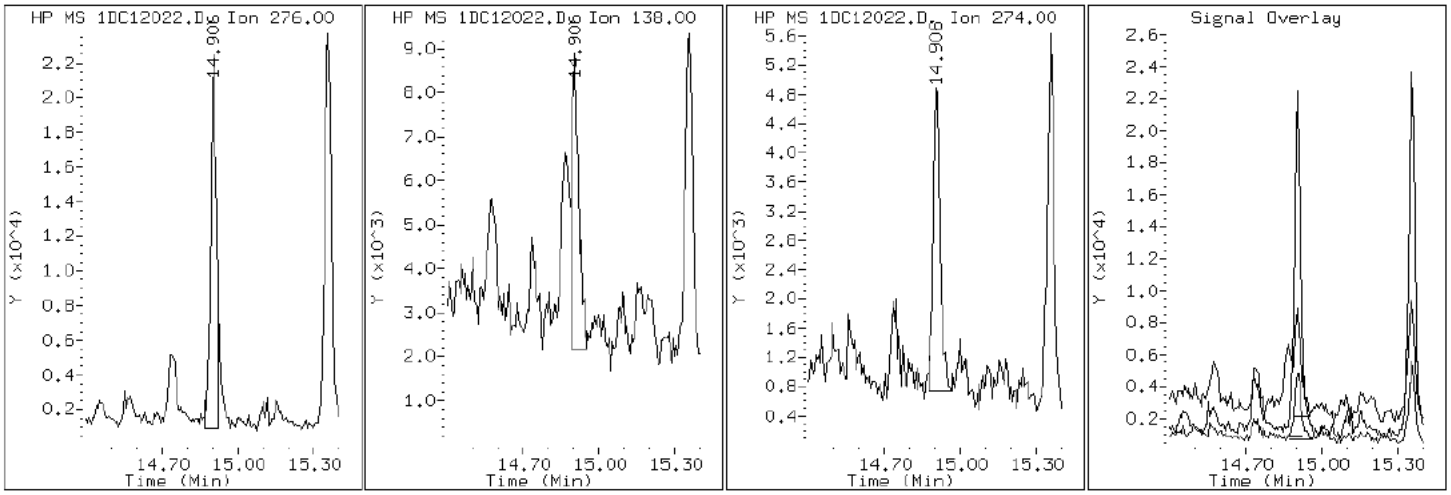
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

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



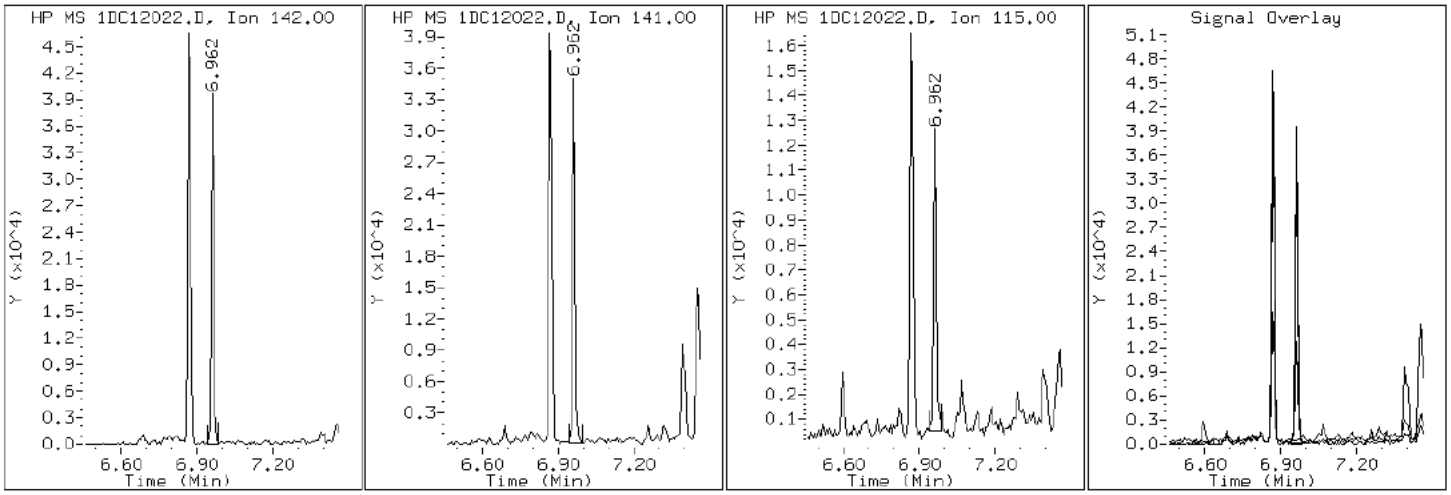
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

4 1-Methylnaphthalene



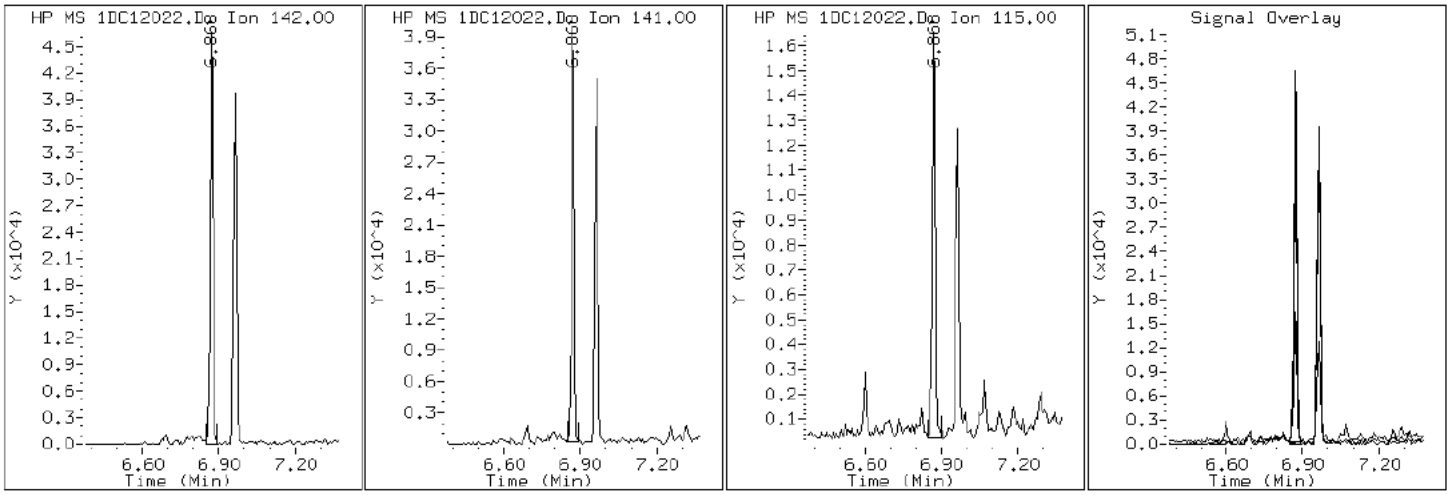
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

3 2-Methylnaphthalene



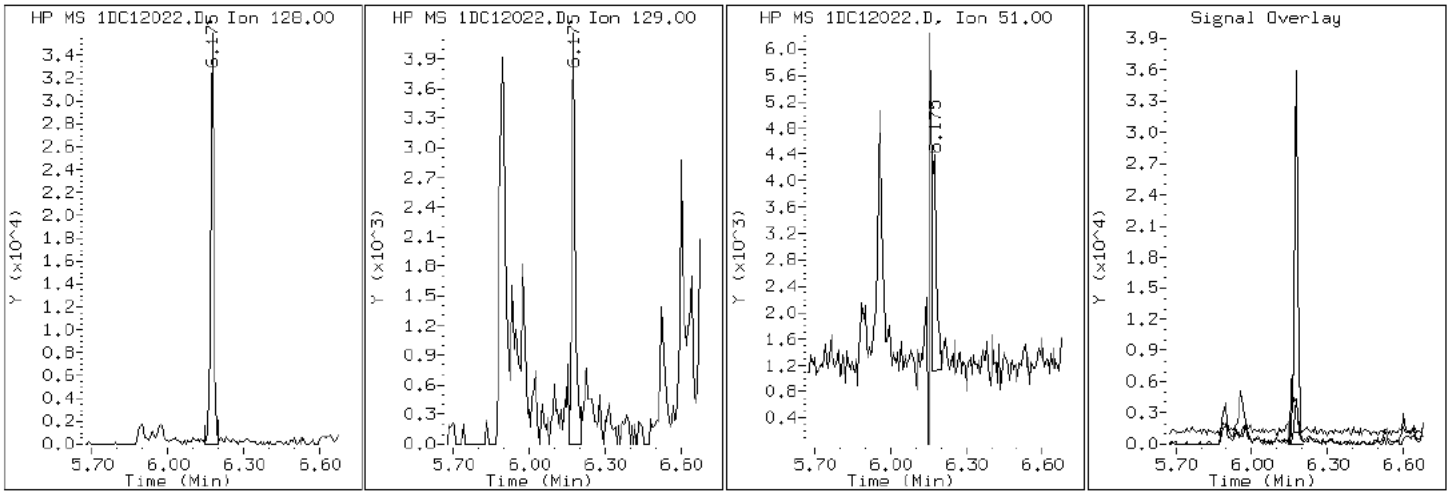
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

2 Naphthalene



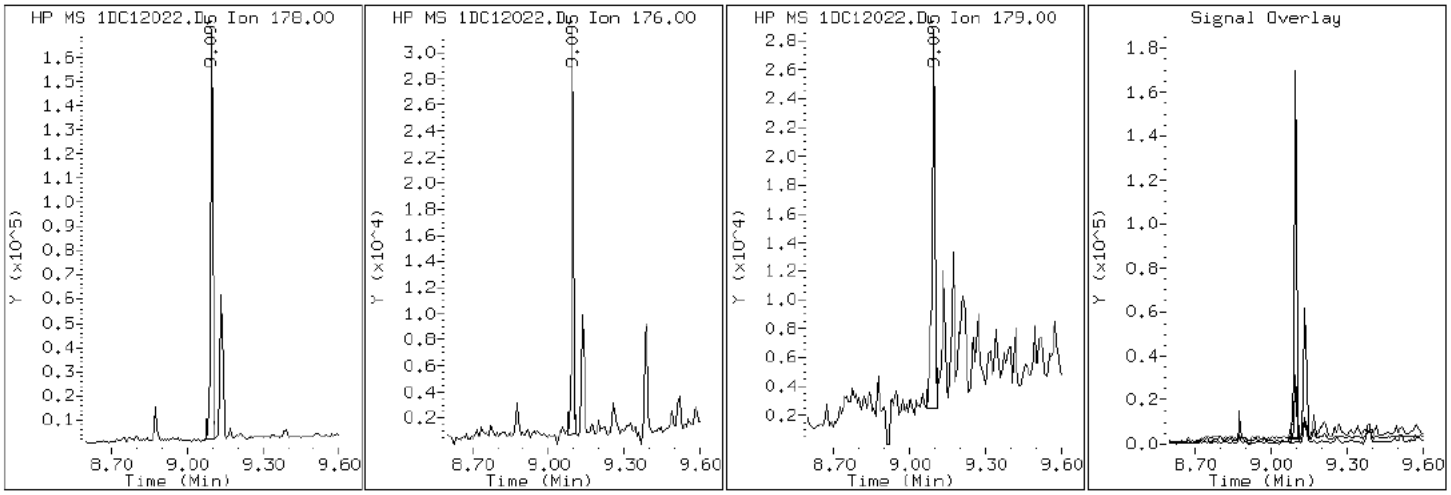
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

10 Phenanthrene



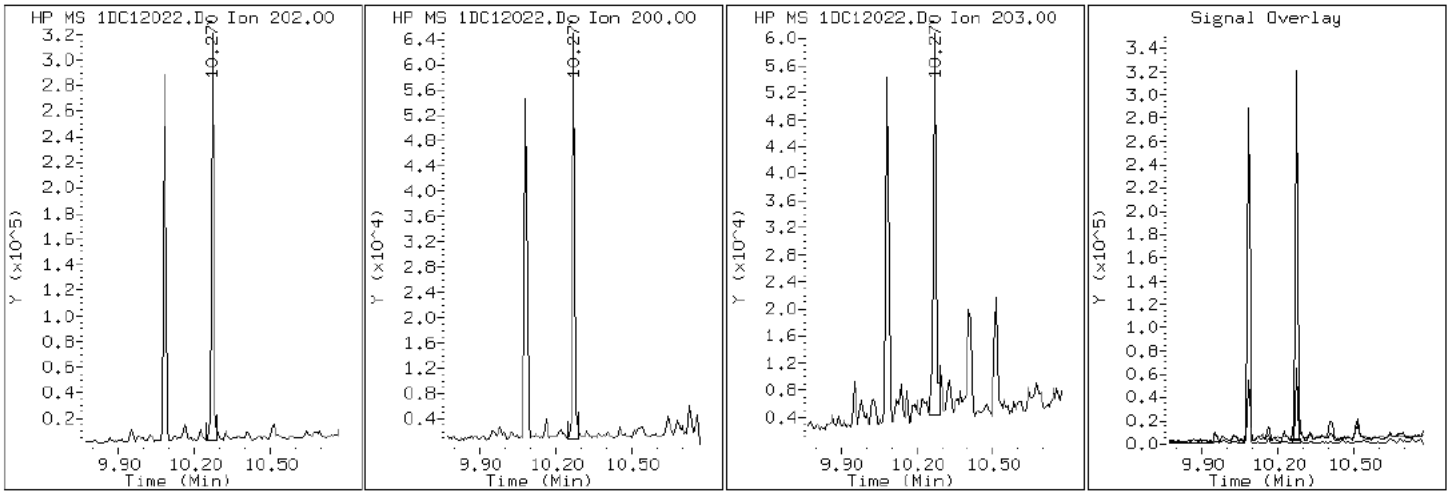
Data File: 1DC12022.D

Date: 12-MAR-2013 17:42

Client ID: CV0278A-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-12-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12022.D
Inj. Date and Time: 12-MAR-2013 17:42
Instrument ID: BSMSD.i
Client ID: CV0278A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

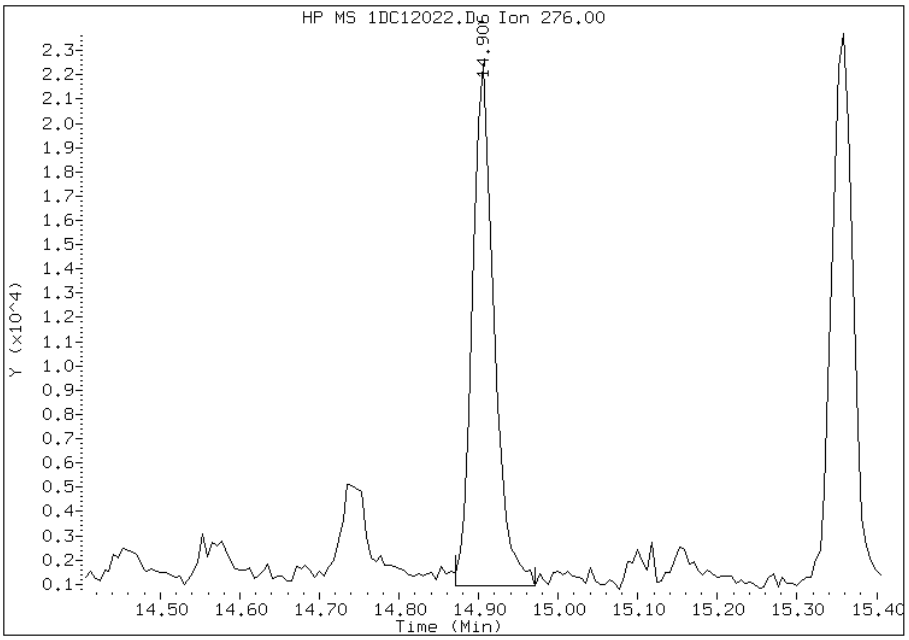
Processing Integration Results

RT: 14.91

Response: 40585

Amount: 1

Conc: 97



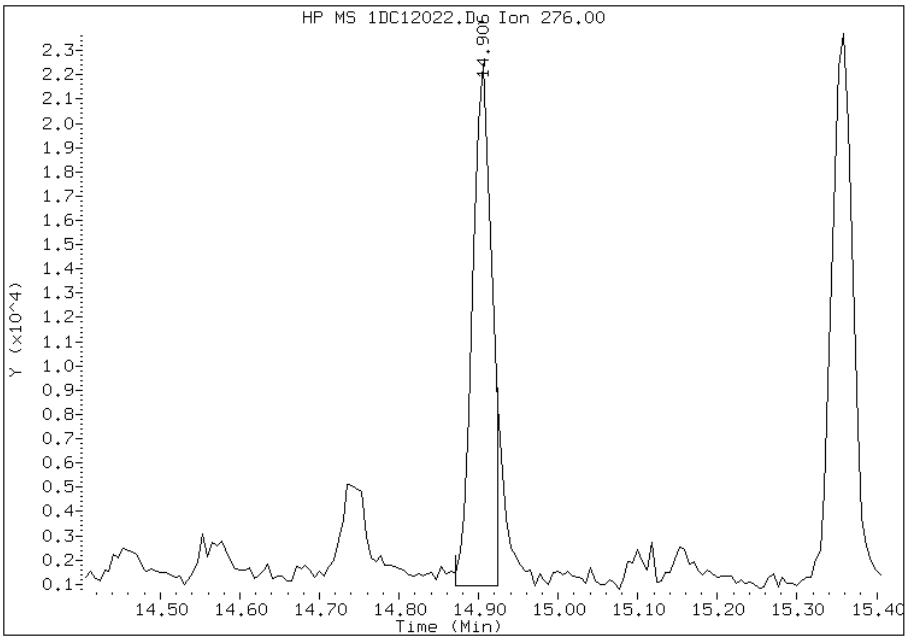
Manual Integration Results

RT: 14.91

Response: 36221

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0278A-CSD | Lab Sample ID: 680-88065-13

Matrix: Solid | Lab File ID: 1DC12023.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 14:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.94(g) | Date Analyzed: 03/12/2013 18:05

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

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

% Moisture: 30.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	17	J	58	7.2
120-12-7	Anthracene	15		12	6.1
56-55-3	Benzo[a]anthracene	59		12	5.6
50-32-8	Benzo[a]pyrene	66		15	7.5
205-99-2	Benzo[b]fluoranthene	170		18	8.8
191-24-2	Benzo[g,h,i]perylene	32		29	6.4
207-08-9	Benzo[k]fluoranthene	58		12	5.2
218-01-9	Chrysene	100		13	6.5
53-70-3	Dibenz(a,h)anthracene	15	J	29	5.9
206-44-0	Fluoranthene	110		29	5.8
86-73-7	Fluorene	29	U	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	31		29	10
90-12-0	1-Methylnaphthalene	26	J	58	6.4
91-57-6	2-Methylnaphthalene	35	J	58	10
91-20-3	Naphthalene	30	J	58	6.4
85-01-8	Phenanthrene	59		12	5.6
129-00-0	Pyrene	110		29	5.3

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12023.D
Lab Smp Id: 680-88065-A-13-A Client Smp ID: CV0278A-CSD
Inj Date : 12-MAR-2013 18:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-13-A
Misc Info : 680-88065-A-13-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 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	14.940	Weight Extracted
M	31.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.152	6.149	(1.000)	2286554	40.0000	
* 6 Acenaphthene-d10	164	7.820	7.818	(1.000)	1457890	40.0000	
* 9 Phenanthrene-d10	188	9.078	9.075	(1.000)	2464882	40.0000	
$ 13 o-Terphenyl	230	9.389	9.386	(1.034)	288806	7.57683	740
* 17 Chrysene-d12	240	11.416	11.414	(1.000)	2067930	40.0000	
* 22 Perylene-d12	264	13.273	13.282	(1.000)	1205267	40.0000	
2 Naphthalene	128	6.175	6.173	(1.004)	19289	0.31535	30
3 2-Methylnaphthalene	142	6.869	6.872	(1.117)	13959	0.35826	35
4 1-Methylnaphthalene	142	6.963	6.960	(1.132)	9835	0.26955	26
5 Acenaphthylene	152	7.691	7.688	(0.983)	11012	0.17133	17
8 Fluorene	166	8.290	8.288	(1.060)	2491	0.05440	5.3
10 Phenanthrene	178	9.095	9.099	(1.002)	42836	0.61221	59
11 Anthracene	178	9.136	9.140	(1.006)	11238	0.16053	16
12 Carbazole	167	9.277	9.275	(1.022)	6862	0.10965	11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.082	10.080	(1.111)	81385	1.11458	110
15 Pyrene	202	10.270	10.268	(0.900)	72488	1.13006	110
16 Benzo(a)anthracene	228	11.399	11.396	(0.998)	34872	0.61595	60
18 Chrysene	228	11.434	11.443	(1.002)	62435	1.06819	100
19 Benzo(b)fluoranthene	252	12.726	12.730	(0.959)	54421	1.75420	170
20 Benzo(k)fluoranthene	252	12.756	12.765	(0.961)	19442	0.59854	58
21 Benzo(a)pyrene	252	13.179	13.188	(0.993)	20907	0.68101	66
23 Indeno(1,2,3-cd)pyrene	276	14.889	14.898	(1.122)	10689	0.32626	32(M)
24 Dibenzo(a,h)anthracene	278	14.912	14.927	(1.123)	4825	0.15947	15
25 Benzo(g,h,i)perylene	276	15.329	15.356	(1.155)	10347	0.33124	32

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC12023.D

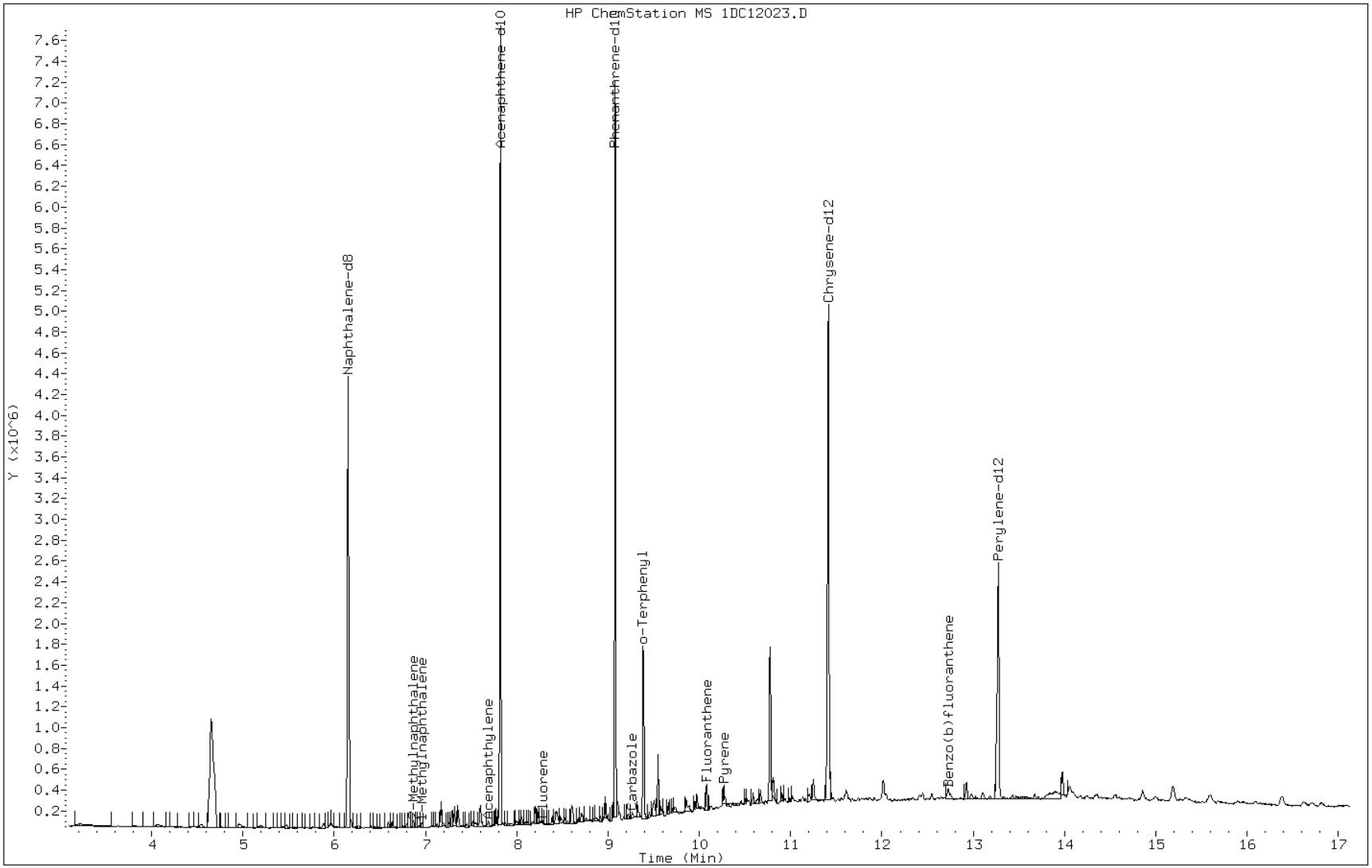
Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD

Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A

Operator: SCC



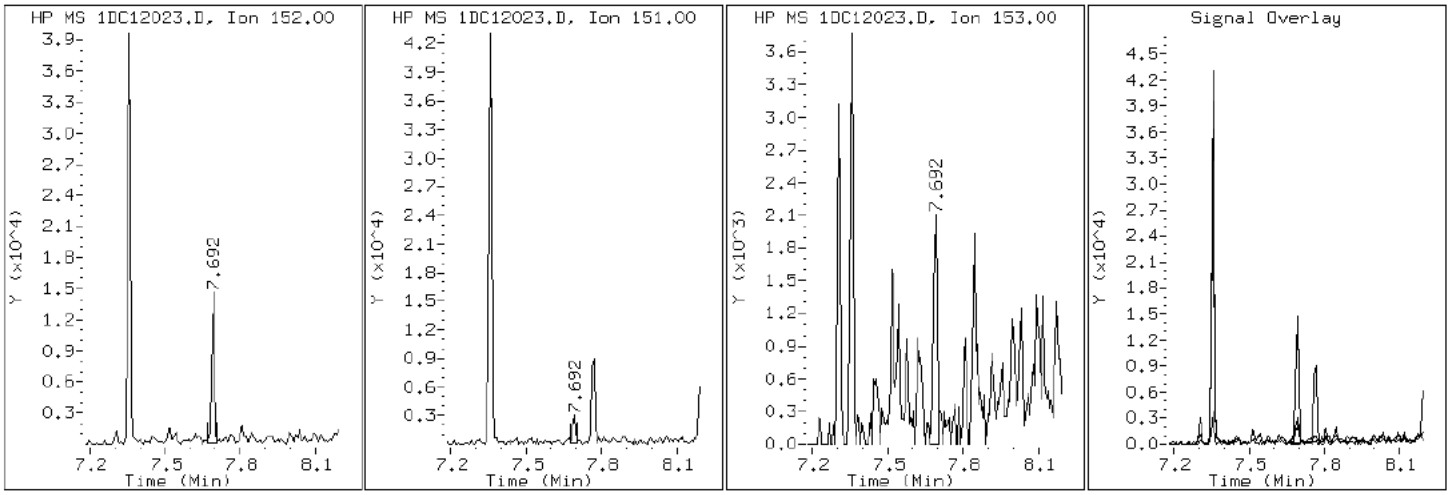
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

5 Acenaphthylene



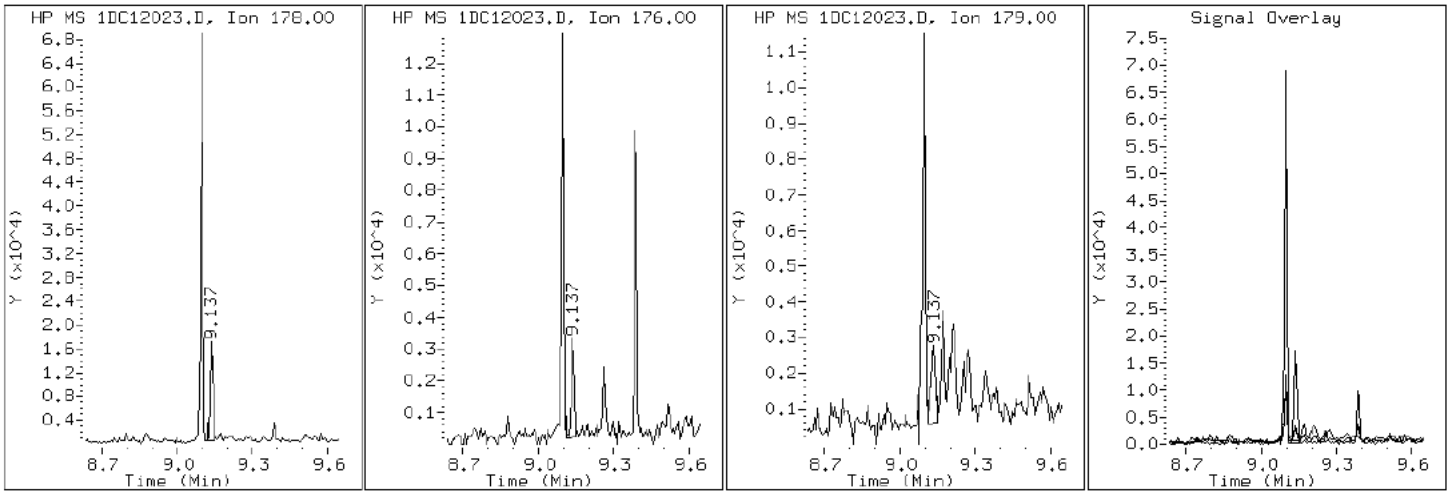
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

11 Anthracene



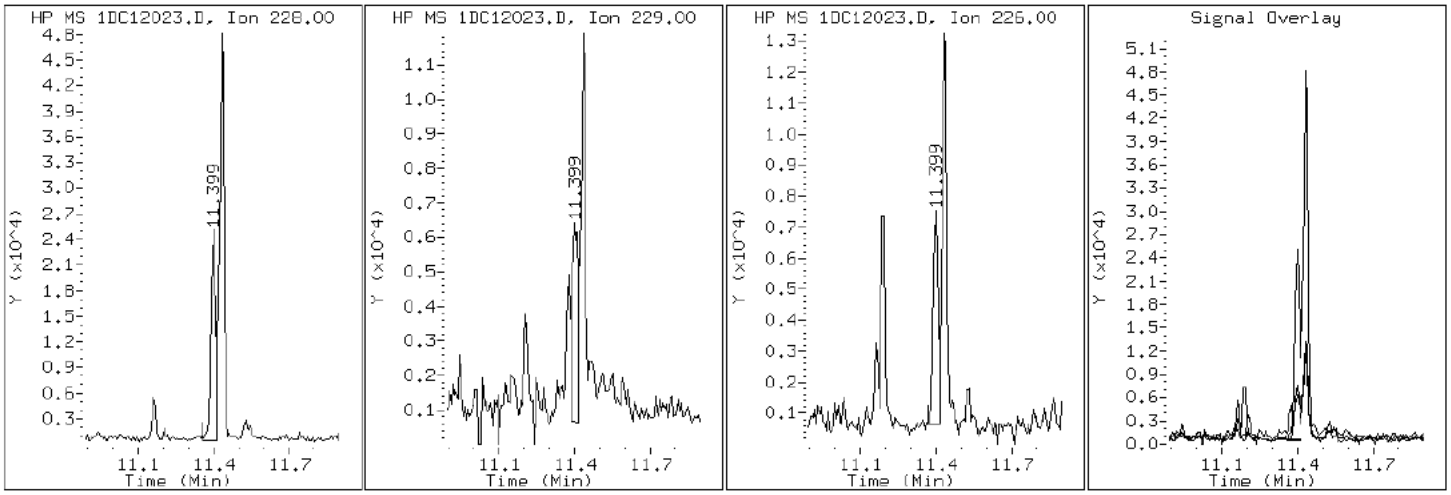
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

16 Benzo(a)anthracene



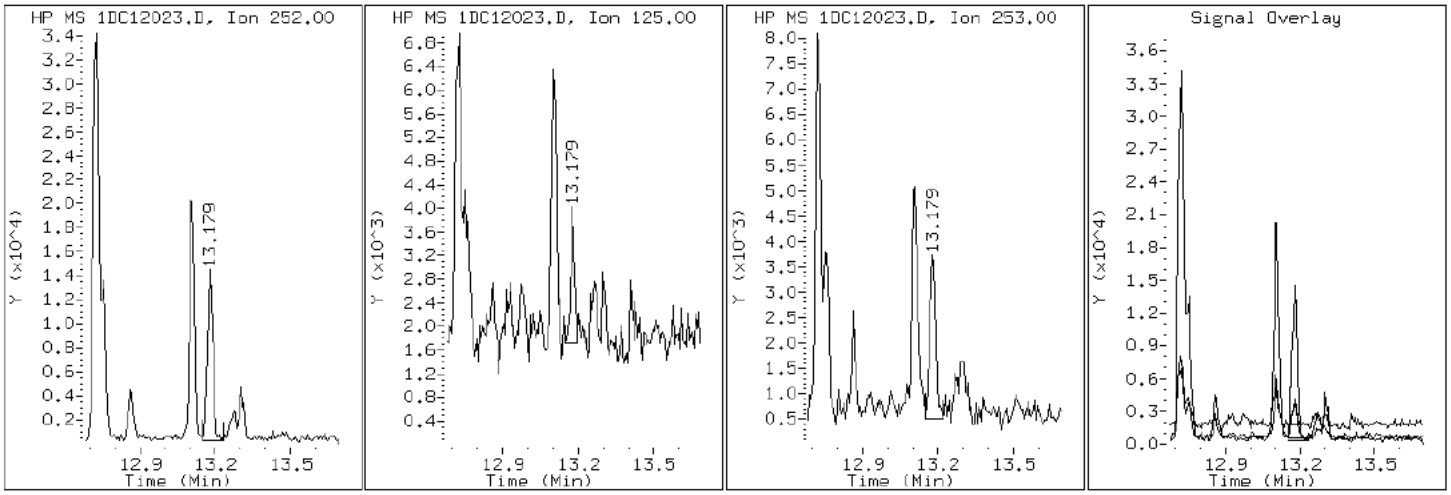
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

21 Benzo(a)pyrene



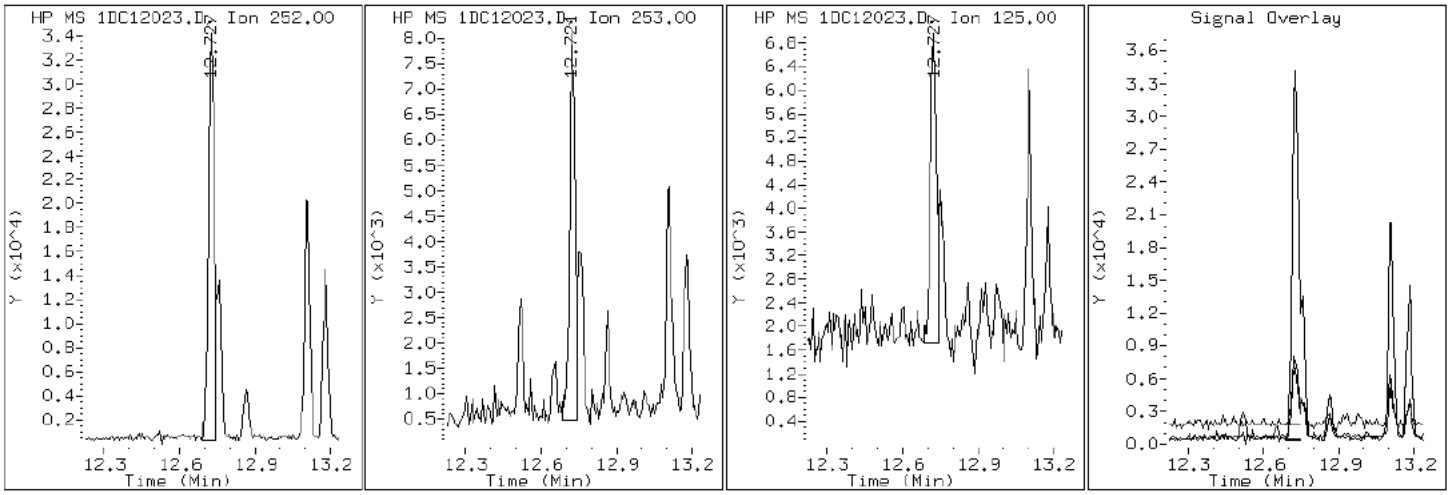
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

19 Benzo(b)fluoranthene



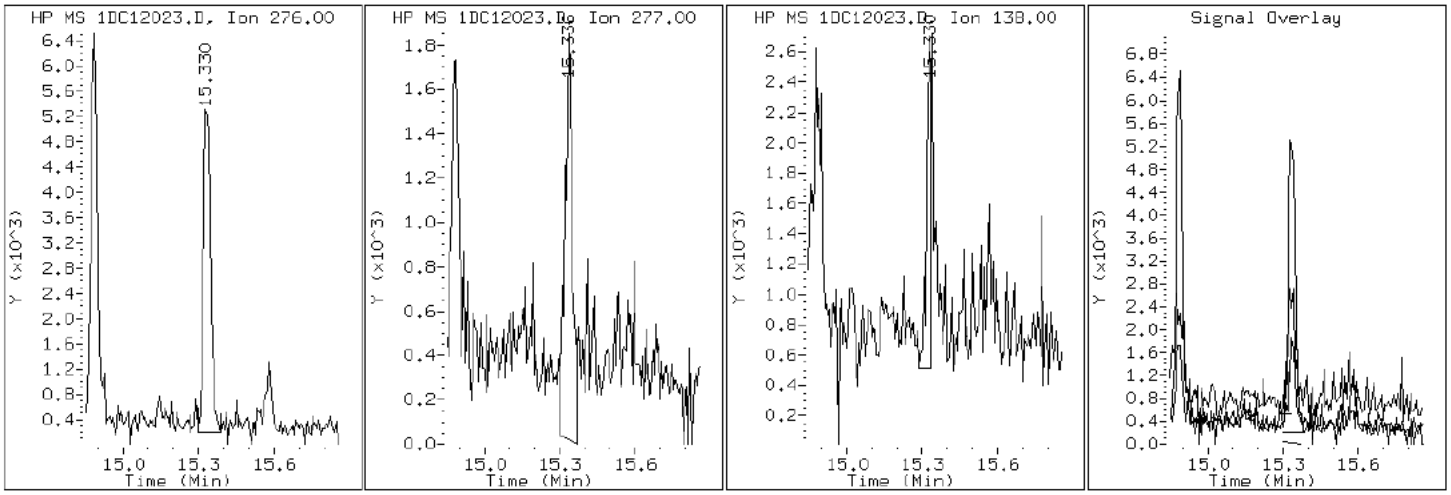
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

25 Benzo(g,h,i)perylene



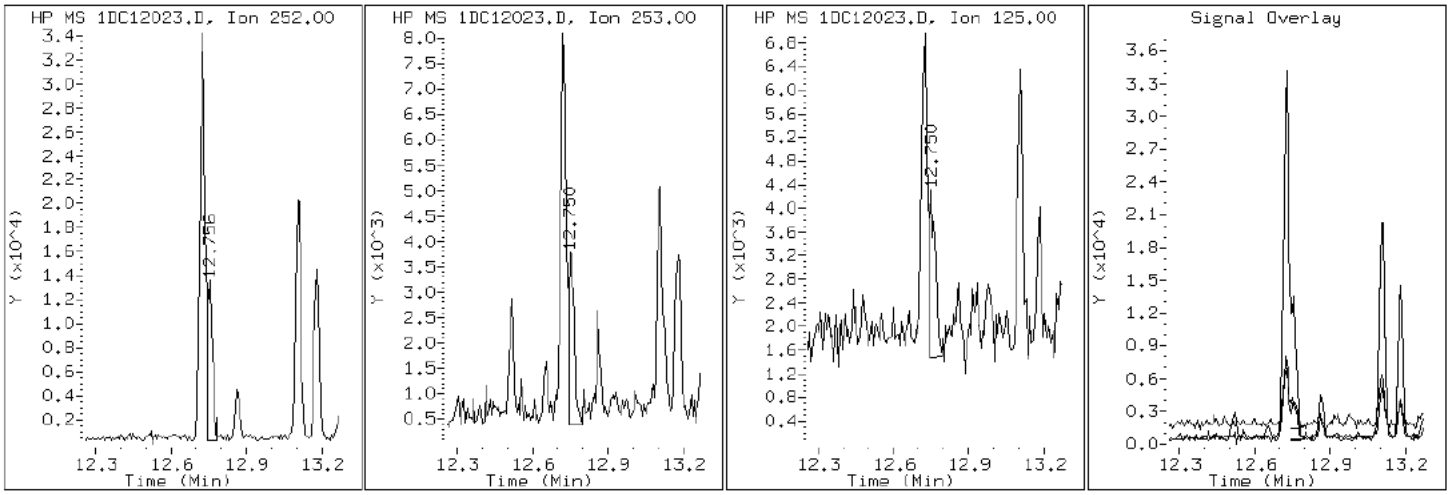
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

20 Benzo(k)fluoranthene



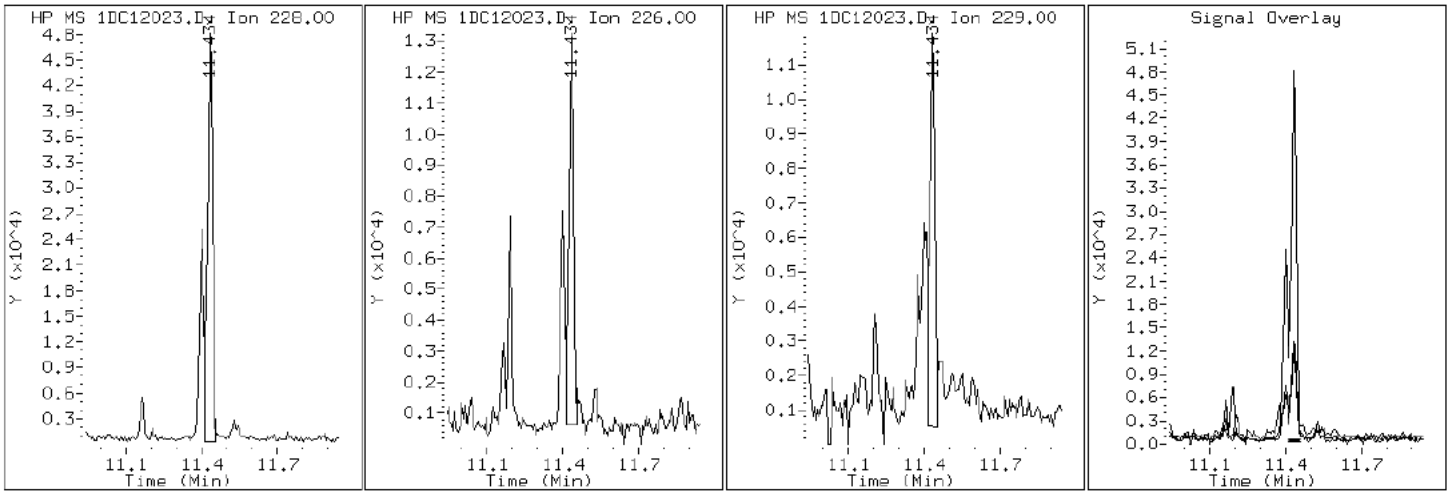
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

18 Chrysene



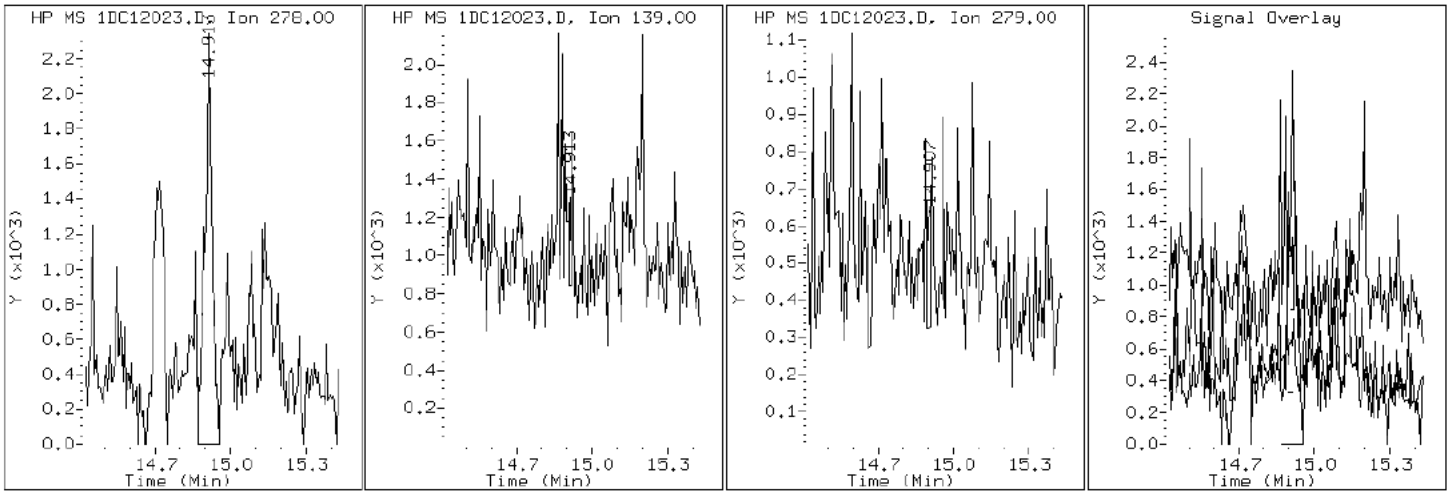
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

24 Dibenzo(a,h)anthracene



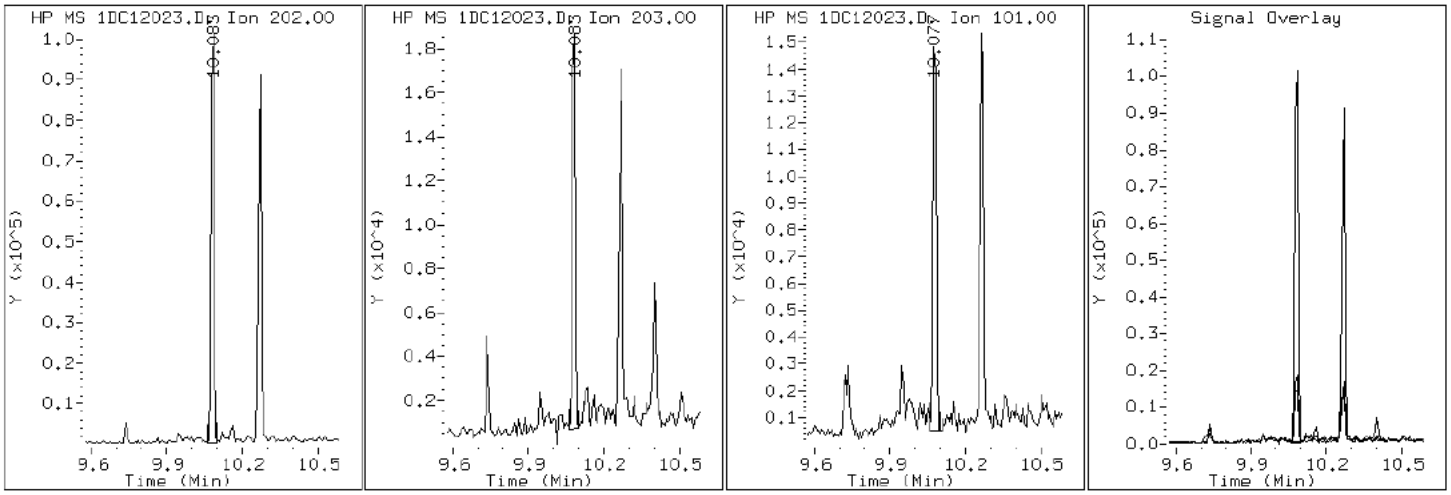
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

14 Fluoranthene



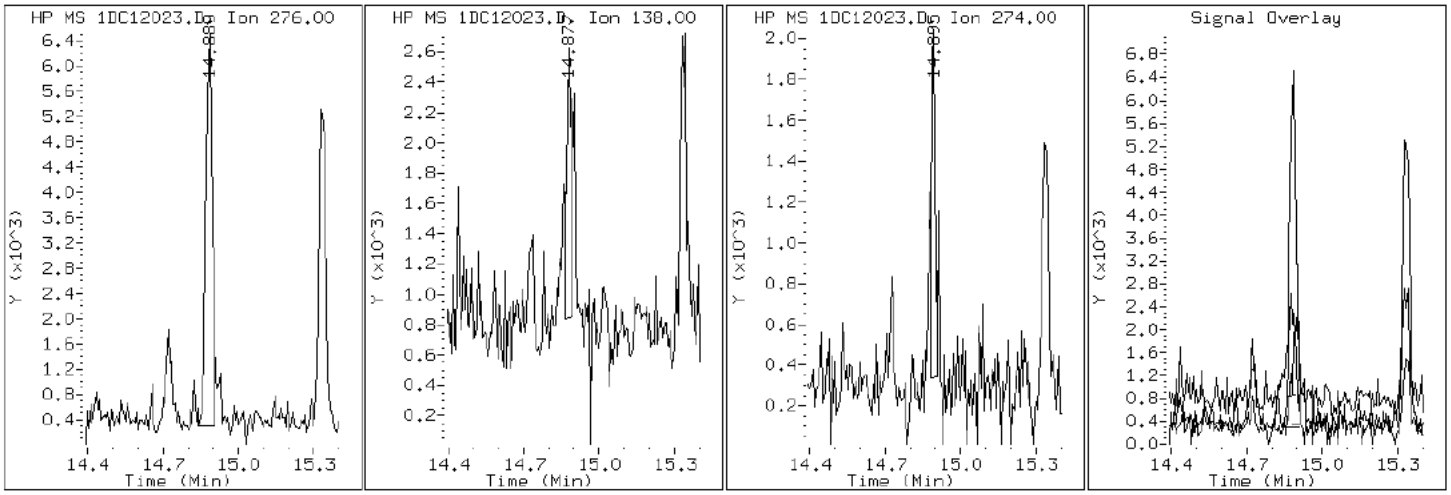
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

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



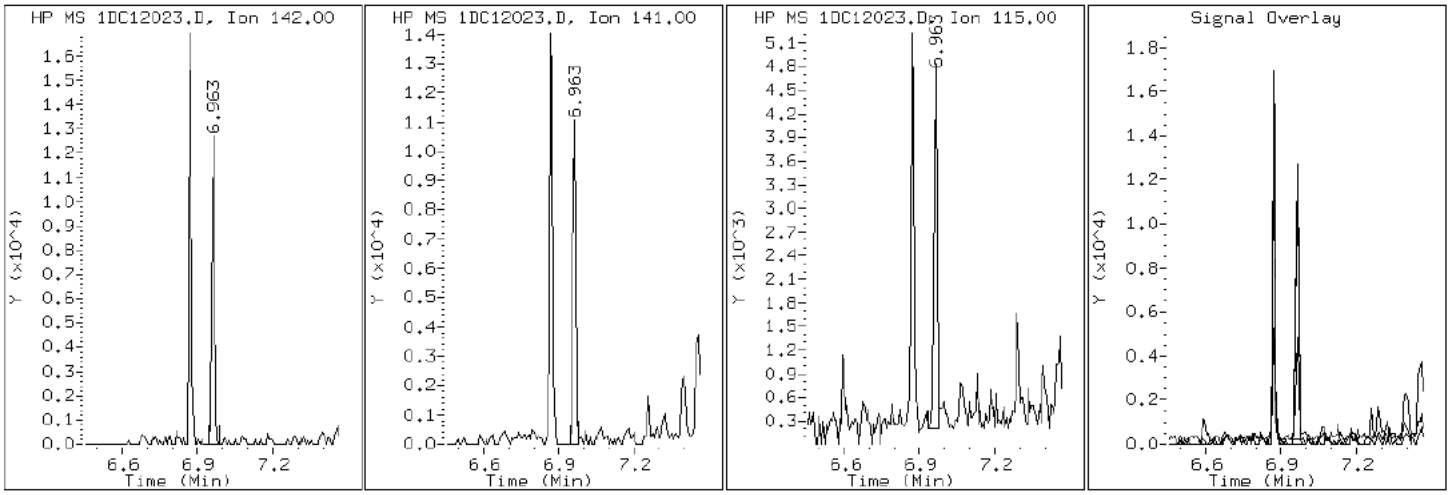
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

4 1-Methylnaphthalene



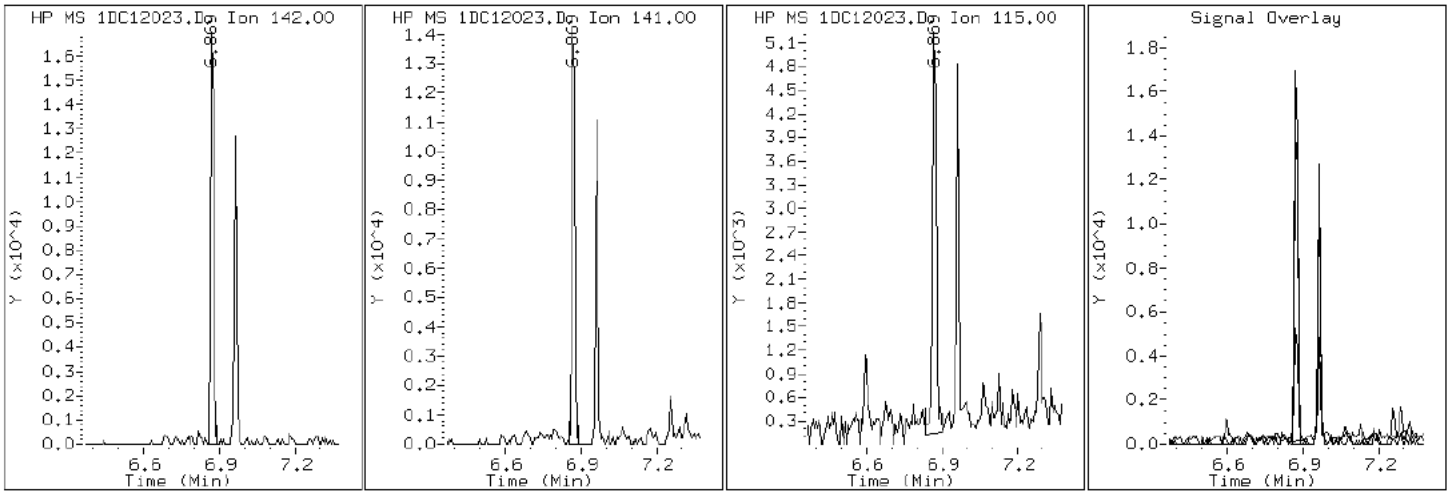
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

3 2-Methylnaphthalene



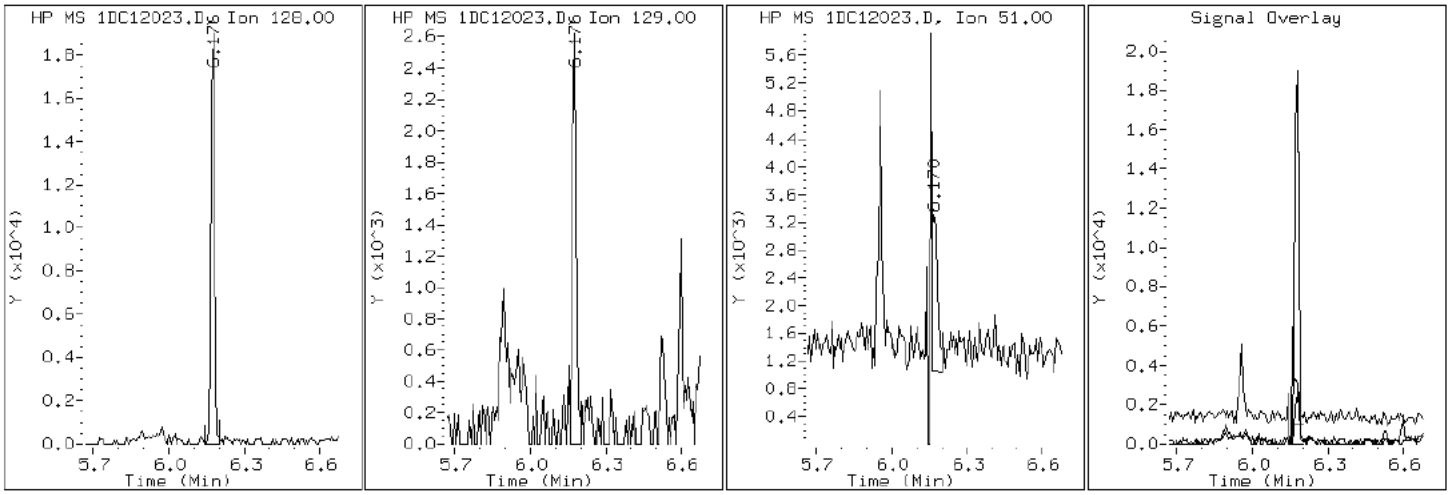
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

2 Naphthalene



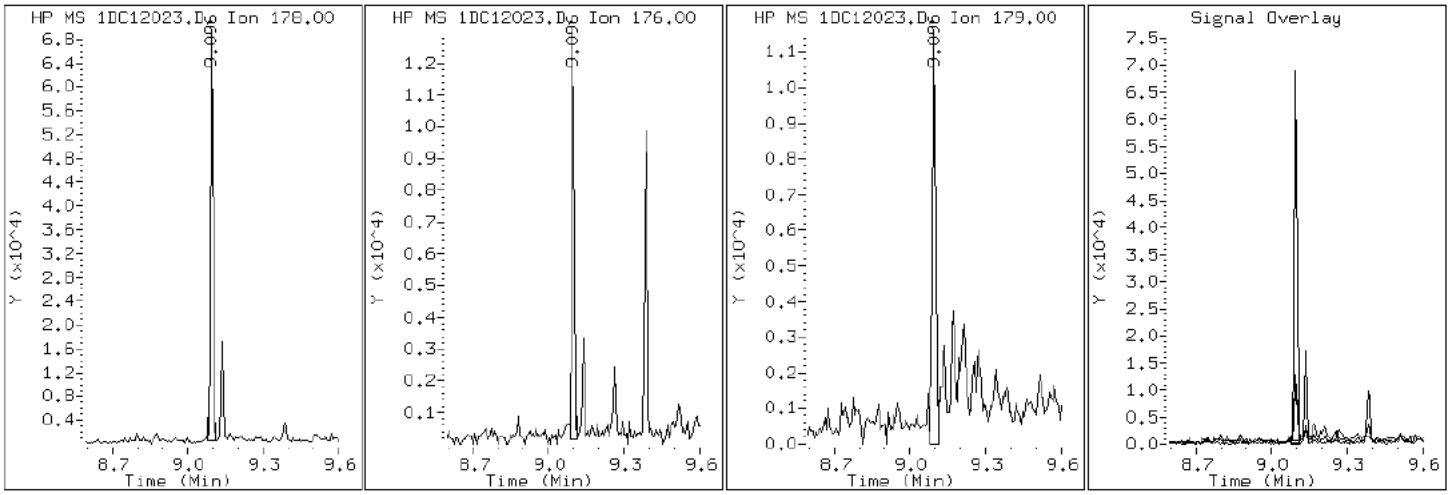
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

10 Phenanthrene



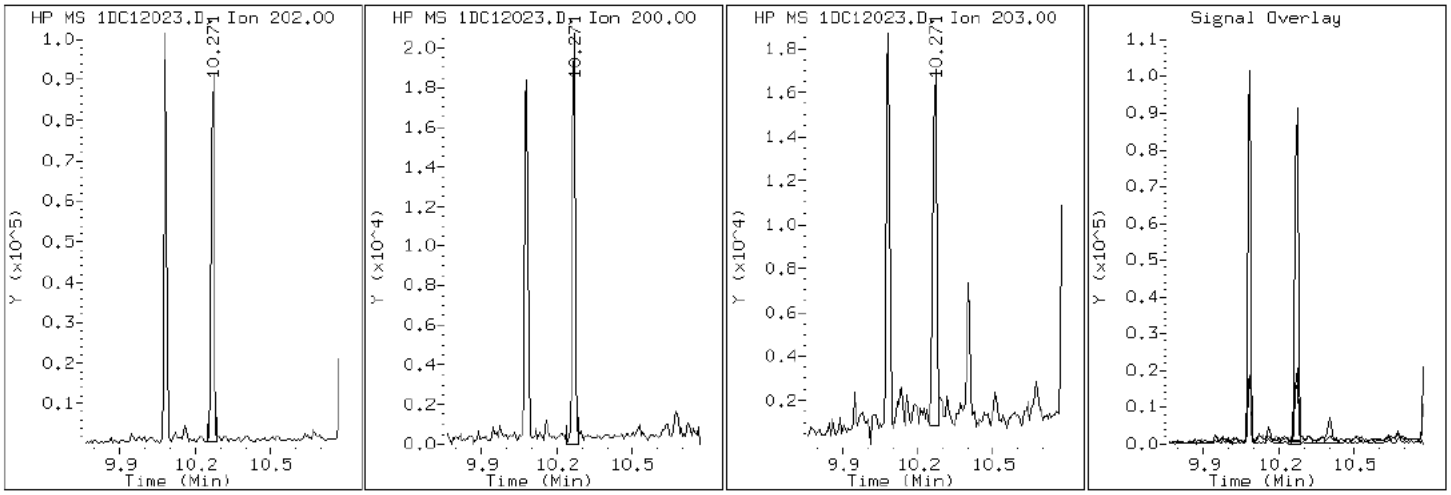
Data File: 1DC12023.D

Date: 12-MAR-2013 18:05

Client ID: CV0278A-CSD Instrument: BSMSD.i

Sample Info: 680-88065-A-13-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12023.D
Inj. Date and Time: 12-MAR-2013 18:05
Instrument ID: BSMSD.i
Client ID: CV0278A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

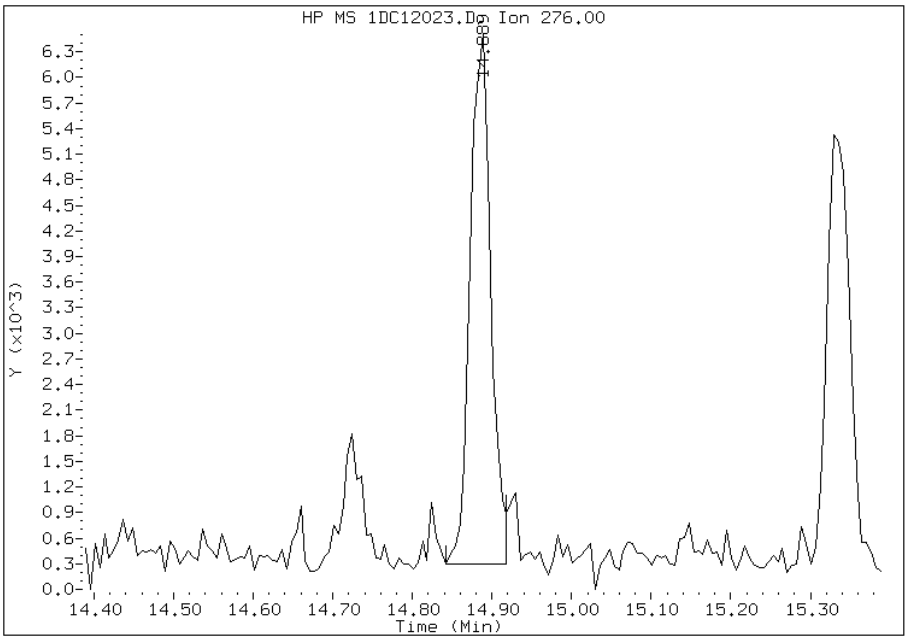
Processing Integration Results

RT: 14.89

Response: 11163

Amount: 0

Conc: 33



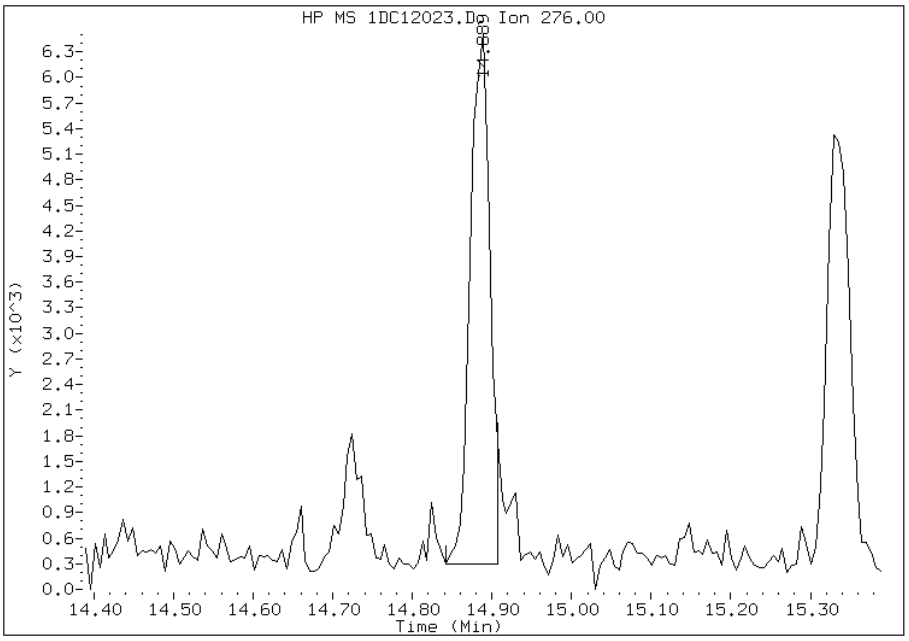
Manual Integration Results

RT: 14.89

Response: 10689

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0278B-CS | Lab Sample ID: 680-88065-14

Matrix: Solid | Lab File ID: 1DC12024.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 14:40

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.92(g) | Date Analyzed: 03/12/2013 18:27

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

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

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	50	U	50	6.2
120-12-7	Anthracene	10	U	10	5.2
56-55-3	Benzo[a]anthracene	20		9.9	4.8
50-32-8	Benzo[a]pyrene	21		13	6.4
205-99-2	Benzo[b]fluoranthene	42		15	7.6
191-24-2	Benzo[g,h,i]perylene	14	J	25	5.5
207-08-9	Benzo[k]fluoranthene	12		9.9	4.5
218-01-9	Chrysene	25		11	5.6
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.1
206-44-0	Fluoranthene	19	J	25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	9.6	J	25	8.8
90-12-0	1-Methylnaphthalene	50	U	50	5.5
91-57-6	2-Methylnaphthalene	50	U	50	8.8
91-20-3	Naphthalene	6.7	J	50	5.5
85-01-8	Phenanthrene	15		9.9	4.8
129-00-0	Pyrene	19	J	25	4.6

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12024.D
Lab Smp Id: 680-88065-A-14-A Client Smp ID: CV0278B-CS
Inj Date : 12-MAR-2013 18:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88065-A-14-A
Misc Info : 680-88065-A-14-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 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	14.920	Weight Extracted
M	19.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.151	6.149	(1.000)	2311922	40.0000	
* 6 Acenaphthene-d10	164	7.820	7.818	(1.000)	1458737	40.0000	
* 9 Phenanthrene-d10	188	9.083	9.075	(1.000)	2502170	40.0000	
$ 13 o-Terphenyl	230	9.388	9.386	(1.034)	287405	7.42771	610
* 17 Chrysene-d12	240	11.415	11.414	(1.000)	2087787	40.0000	
* 22 Perylene-d12	264	13.272	13.282	(1.000)	1225852	40.0000	
2 Naphthalene	128	6.174	6.173	(1.004)	5016	0.08111	6.7
3 2-Methylnaphthalene	142	6.868	6.872	(1.117)	3130	0.07945	6.6
4 1-Methylnaphthalene	142	6.962	6.960	(1.132)	2001	0.05424	4.5
10 Phenanthrene	178	9.095	9.099	(1.001)	12489	0.17583	14
14 Fluoranthene	202	10.082	10.080	(1.110)	17338	0.23391	19
15 Pyrene	202	10.270	10.268	(0.900)	15254	0.23554	19
16 Benzo(a)anthracene	228	11.404	11.396	(0.999)	13708	0.23982	20
18 Chrysene	228	11.439	11.443	(1.002)	17707	0.30006	25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
19 Benzo(b)fluoranthene	252	12.720	12.730	(0.958)	16063	0.50908	42
20 Benzo(k)fluoranthene	252	12.755	12.765	(0.961)	4775	0.14453	12
21 Benzo(a)pyrene	252	13.178	13.188	(0.993)	7878	0.25230	21
23 Indeno(1,2,3-cd)pyrene	276	14.888	14.898	(1.122)	3889	0.11671	9.6(M)
24 Dibenzo(a,h)anthracene	278	14.917	14.927	(1.124)	1416	0.04601	3.8(Q)
25 Benzo(g,h,i)perylene	276	15.334	15.356	(1.155)	5394	0.16978	14(M)

QC Flag Legend

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

Data File: 1DC12024.D

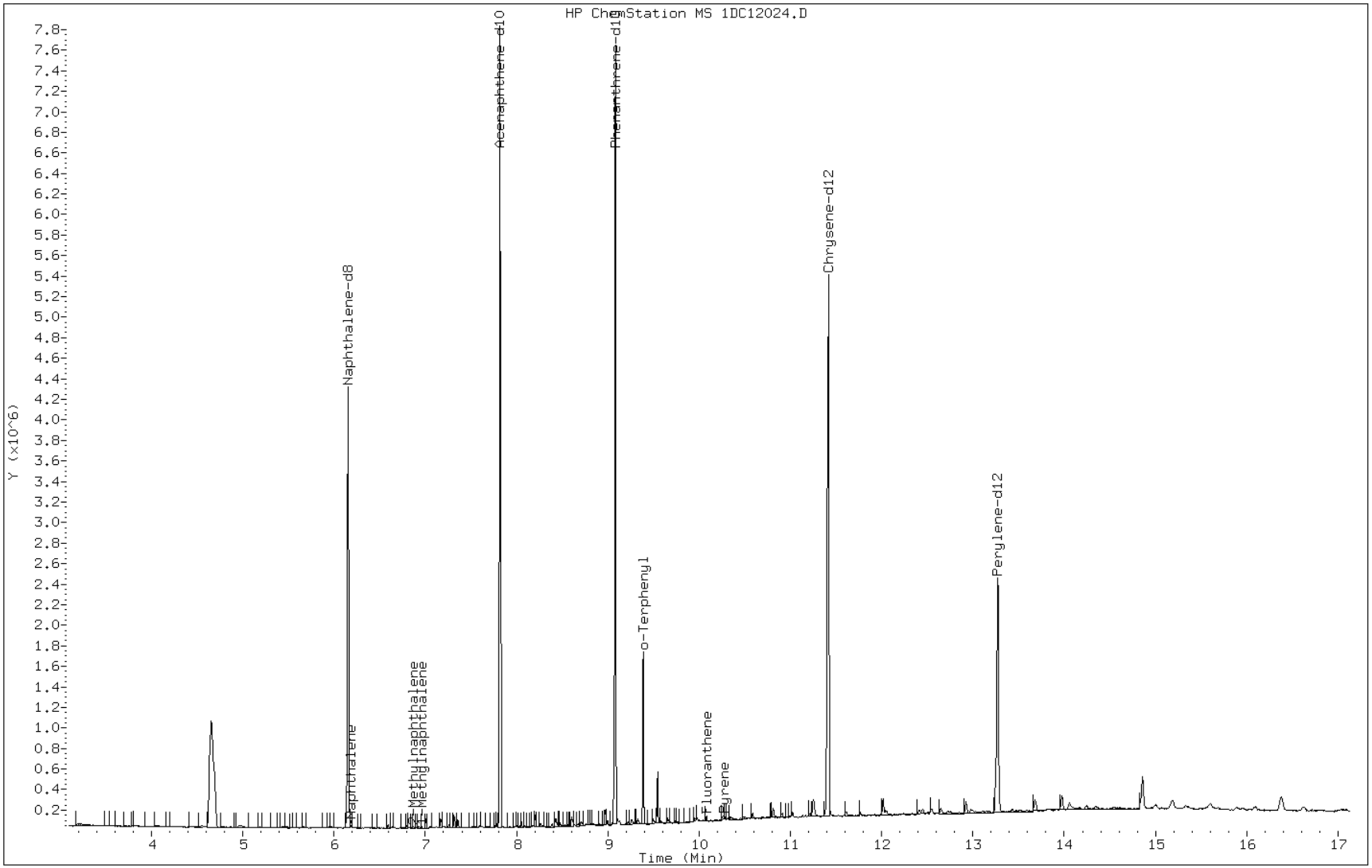
Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS

Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A

Operator: SCC



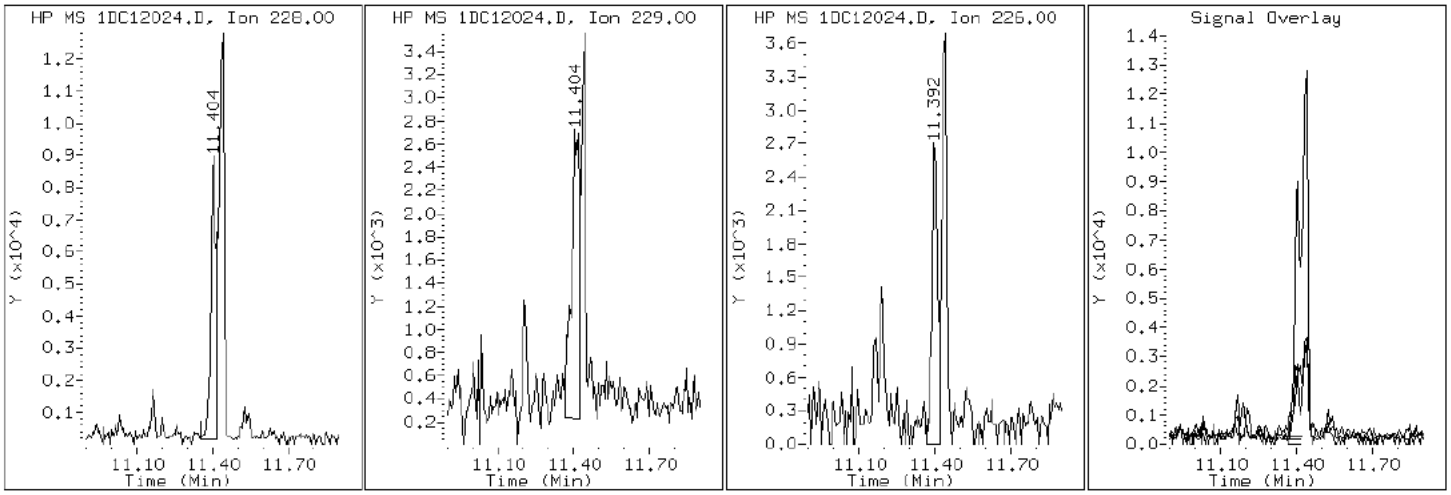
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

16 Benzo(a)anthracene



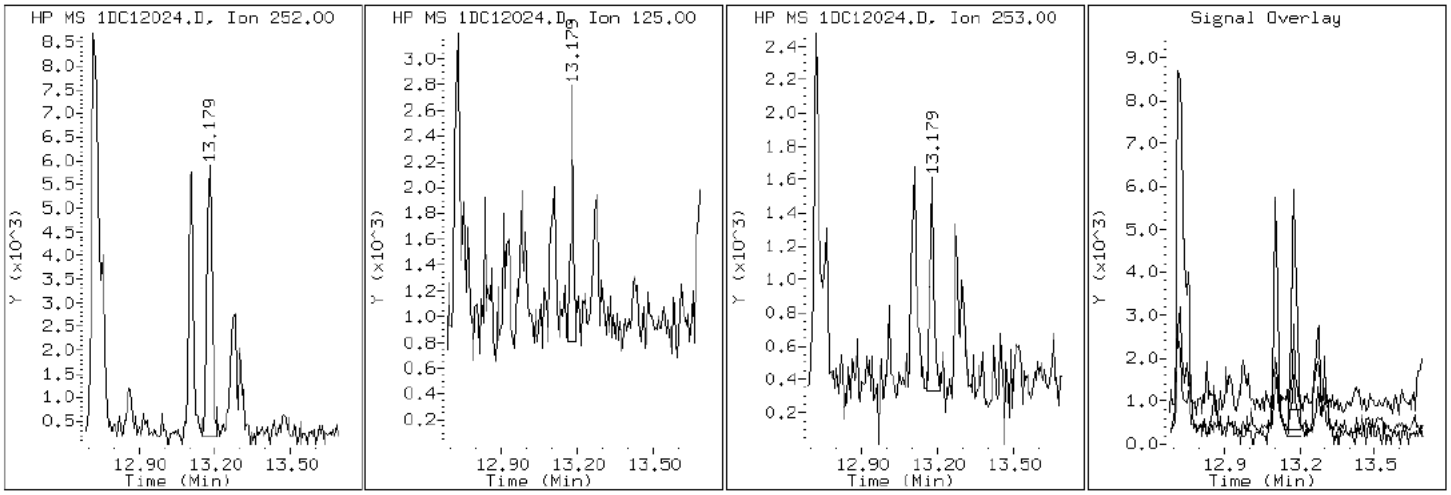
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

21 Benzo(a)pyrene



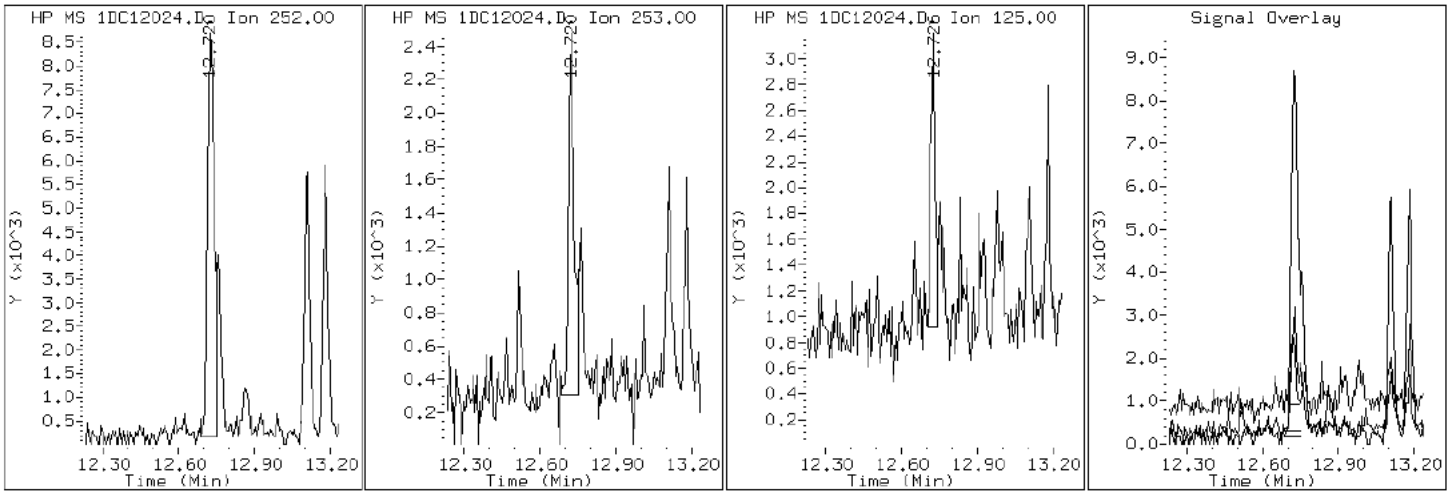
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

19 Benzo(b)fluoranthene



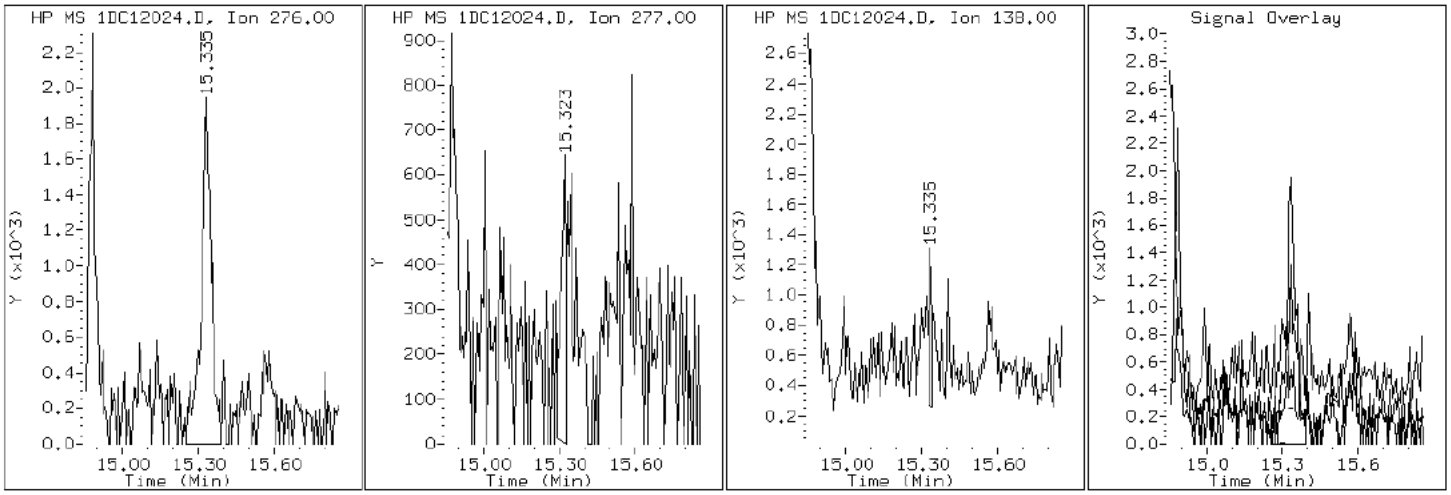
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

25 Benzo(g,h,i)perylene



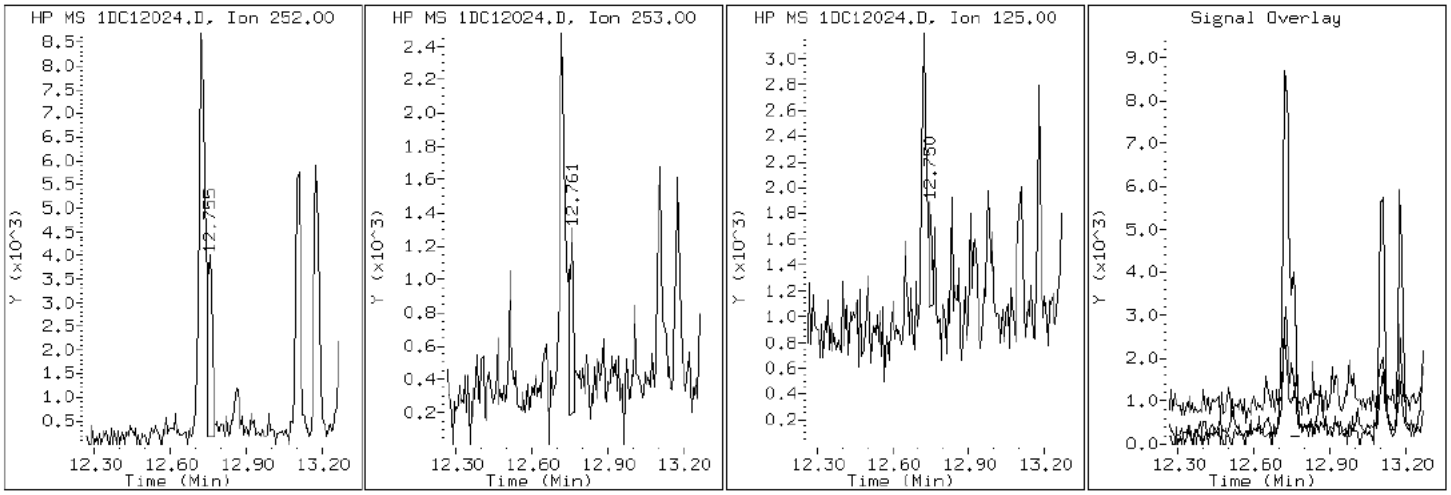
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

20 Benzo(k)fluoranthene



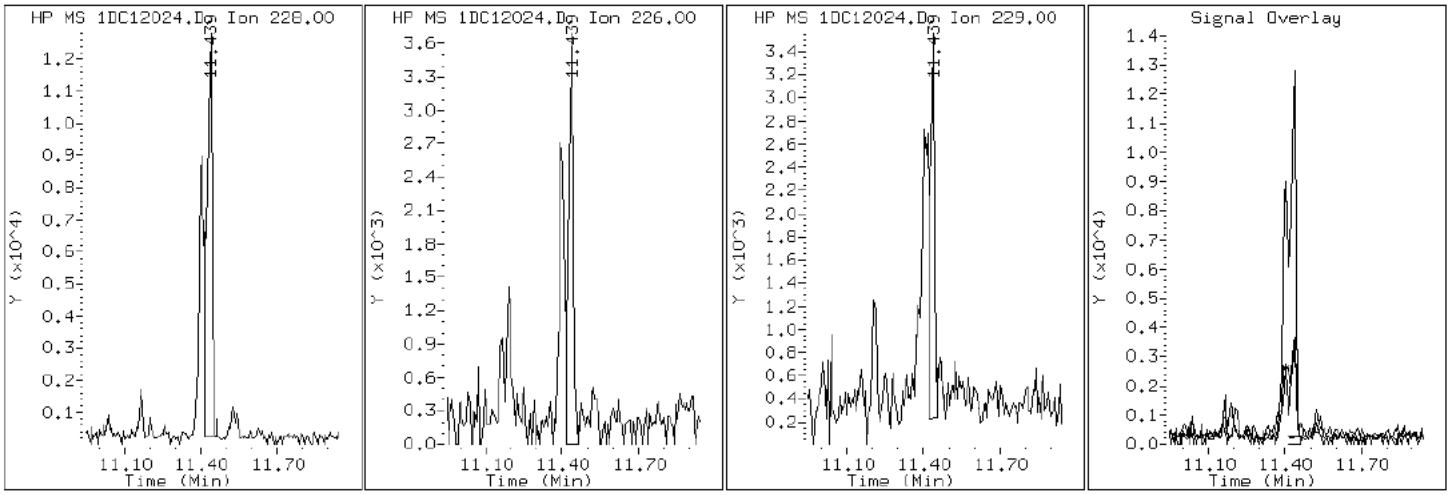
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

18 Chrysene



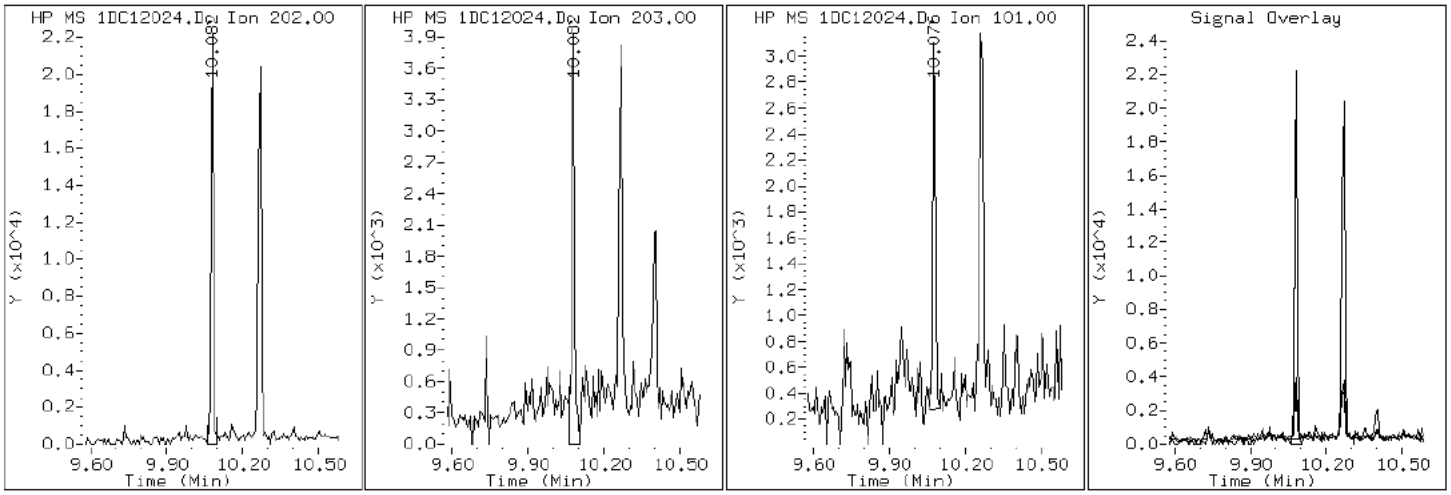
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

14 Fluoranthene



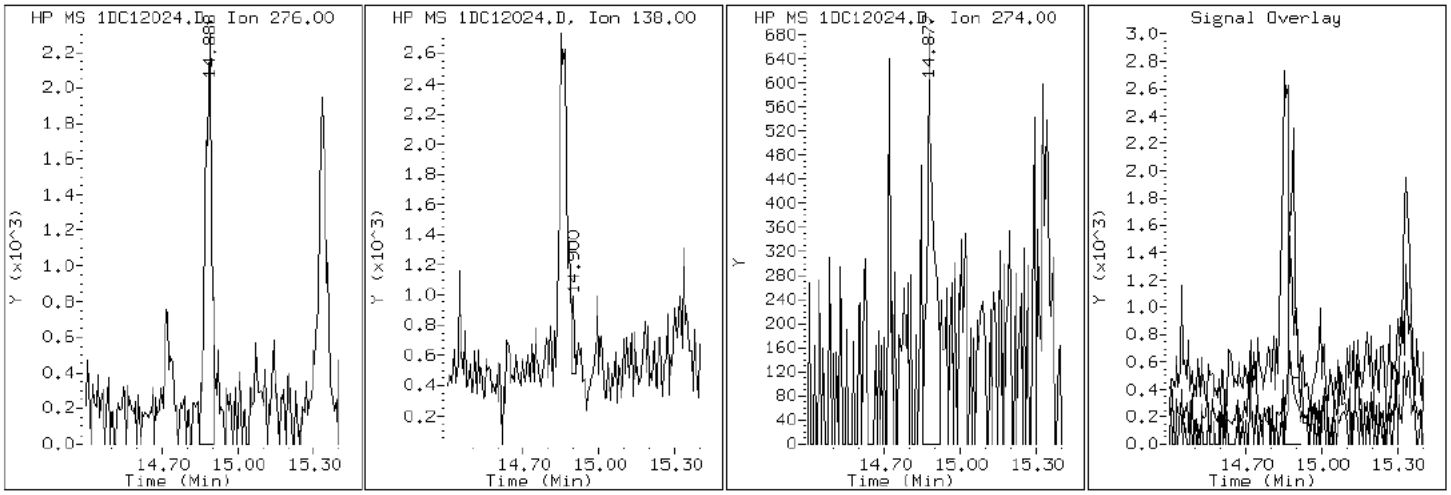
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

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



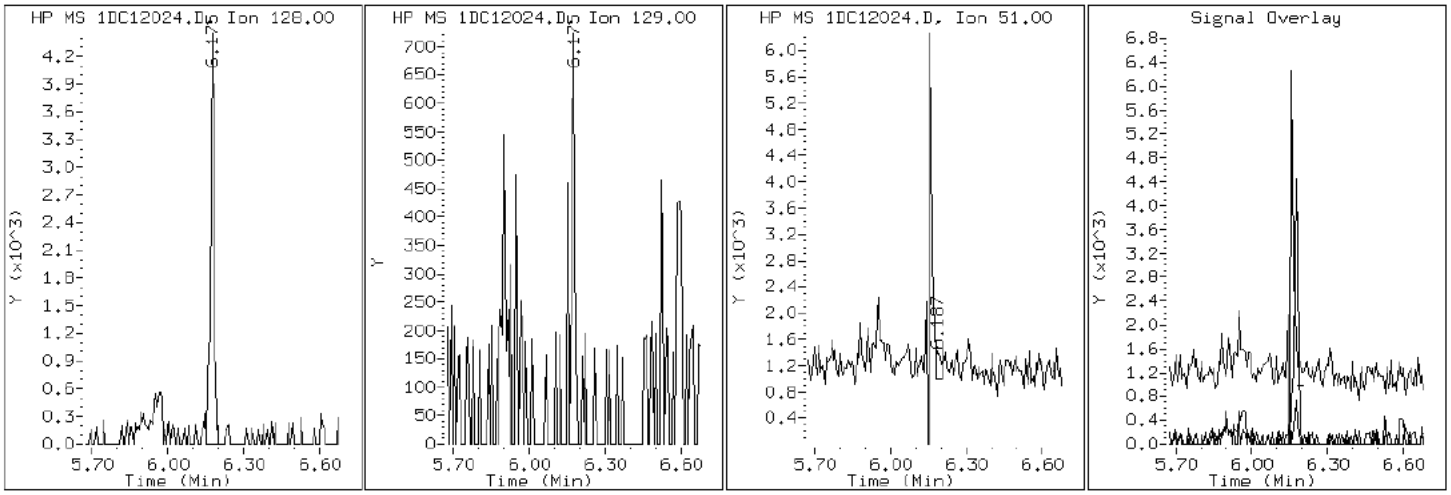
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

2 Naphthalene



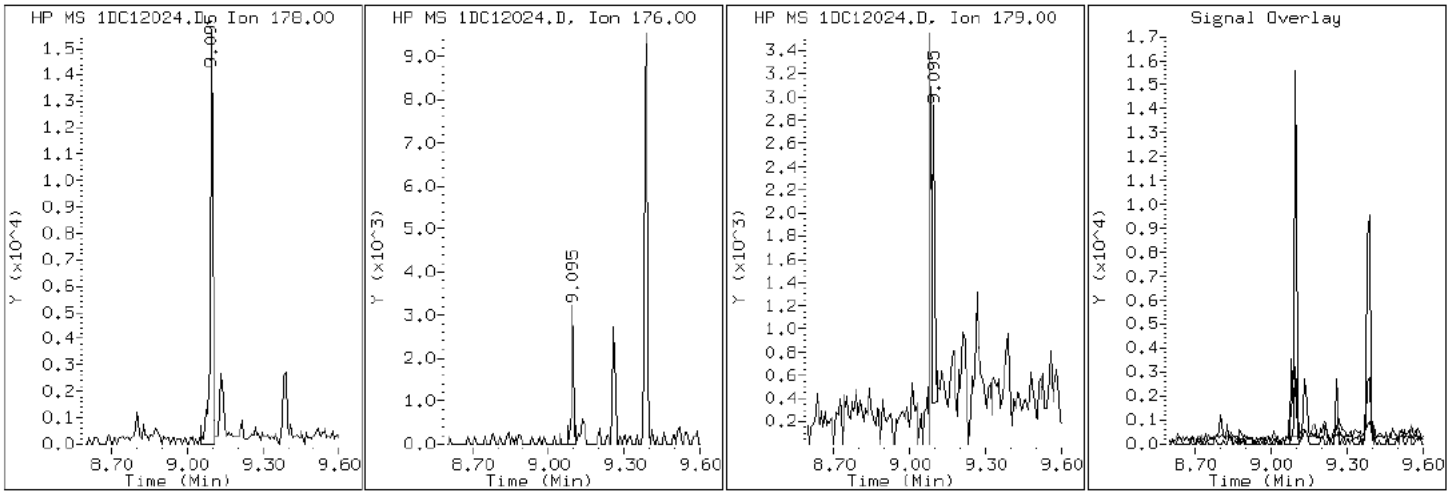
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

10 Phenanthrene



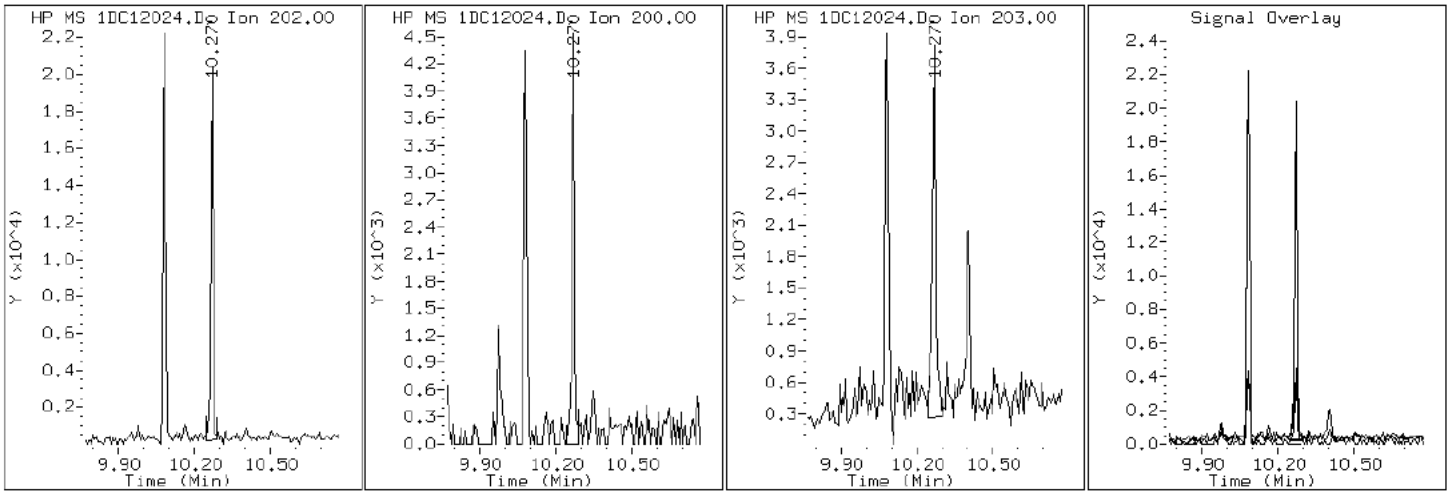
Data File: 1DC12024.D

Date: 12-MAR-2013 18:27

Client ID: CV0278B-CS Instrument: BSMSD.i

Sample Info: 680-88065-A-14-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC12024.D
Inj. Date and Time: 12-MAR-2013 18:27
Instrument ID: BSMSD.i
Client ID: CV0278B-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/13/2013

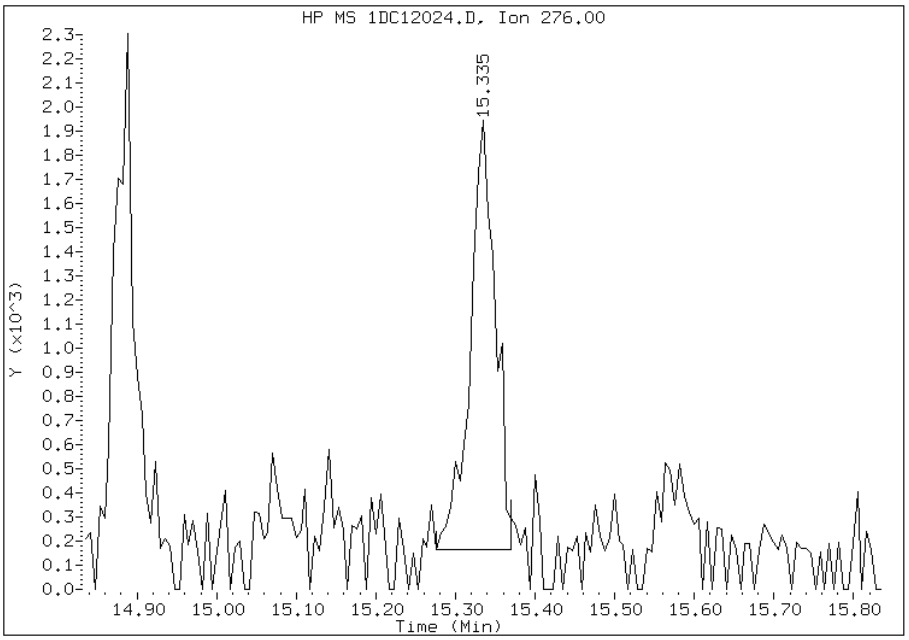
Processing Integration Results

RT: 15.33

Response: 3910

Amount: 0

Conc: 10



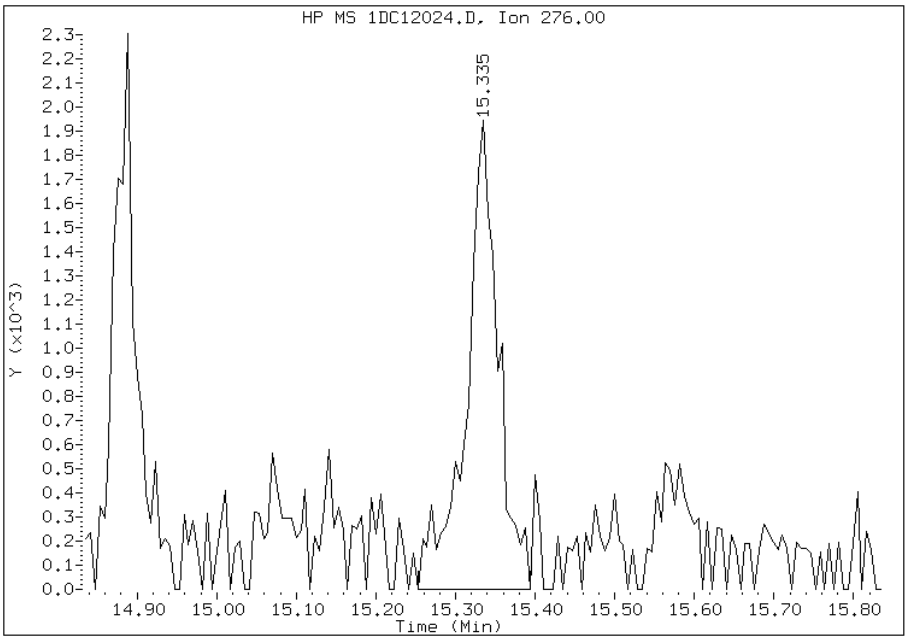
Manual Integration Results

RT: 15.33

Response: 5394

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DC12024.D
Inj. Date and Time: 12-MAR-2013 18:27
Instrument ID: BSMSD.i
Client ID: CV0278B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

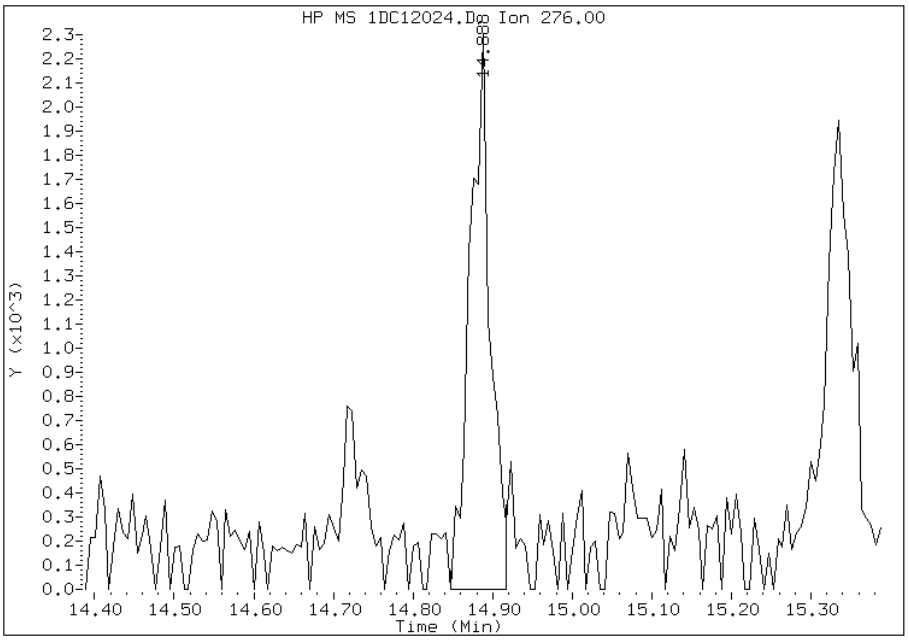
Processing Integration Results

RT: 14.89

Response: 4129

Amount: 0

Conc: 10



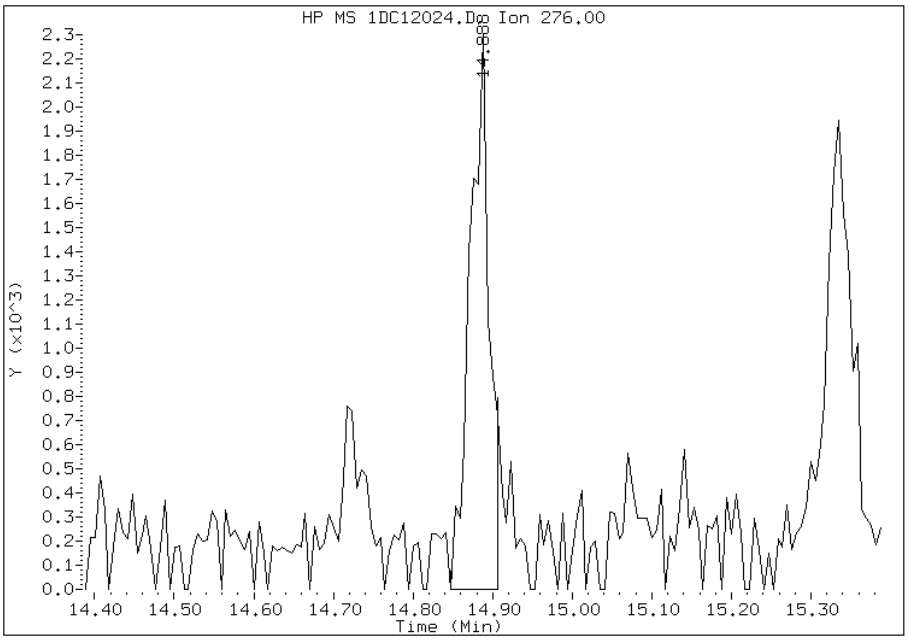
Manual Integration Results

RT: 14.89

Response: 3889

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0236A-CS | Lab Sample ID: 680-88065-15

Matrix: Solid | Lab File ID: 1CC13009.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 15:20

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.08(g) | Date Analyzed: 03/13/2013 13:49

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

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

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135360 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	23	J	48	6.0
120-12-7	Anthracene	37		10	5.0
56-55-3	Benzo[a]anthracene	210		9.6	4.7
50-32-8	Benzo[a]pyrene	200		12	6.2
205-99-2	Benzo[b]fluoranthene	360		15	7.3
191-24-2	Benzo[g,h,i]perylene	160		24	5.3
207-08-9	Benzo[k]fluoranthene	160		9.6	4.3
218-01-9	Chrysene	270		11	5.4
53-70-3	Dibenz(a,h)anthracene	46		24	4.9
206-44-0	Fluoranthene	330		24	4.8
86-73-7	Fluorene	19	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	150		24	8.5
90-12-0	1-Methylnaphthalene	160		48	5.3
91-57-6	2-Methylnaphthalene	170		48	8.5
91-20-3	Naphthalene	120		48	5.3
85-01-8	Phenanthrene	230		9.6	4.7
129-00-0	Pyrene	310		24	4.4

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\1C031313.b\1CC13009.D
Lab Smp Id: 680-88065-A-15-A Client Smp ID: CV0236A-CS
Inj Date : 13-MAR-2013 13:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-A-15-A
Misc Info : 680-88065-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	17.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.757	3.757	(1.000)	1009436	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	747651	40.0000	
* 10 Phenanthrene-d10	188	5.792	5.798	(1.000)	1406515	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.044)	137811	6.48951	518.4801
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1665282	40.0000	
* 23 Perylene-d12	264	8.933	8.933	(1.000)	1703382	40.0000	
2 Naphthalene	128	3.768	3.768	(1.003)	39011	1.48447	118.6018
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	36278	2.06954	165.3459
4 1-Methylnaphthalene	142	4.257	4.262	(1.133)	31241	1.95682	156.3402
5 Acenaphthylene	152	4.757	4.757	(0.982)	8676	0.28783	22.9961
9 Fluorene	166	5.186	5.186	(1.070)	5708	0.24090	19.2467
11 Phenanthrene	178	5.809	5.809	(1.003)	116363	2.86114	228.5910
12 Anthracene	178	5.845	5.845	(1.009)	18292	0.45988	36.7425
13 Carbazole	167	5.951	5.951	(1.027)	14656	0.41451	33.1173

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.645	6.651	(1.147)	186294	4.18274	334.1804
16 Pyrene	202	6.815	6.815	(0.881)	171608	3.83464	306.3691
17 Benzo(a)anthracene	228	7.727	7.733	(0.998)	124595	2.59231	207.1132
19 Chrysene	228	7.756	7.762	(1.002)	163800	3.40545	272.0790
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.960)	199053	4.47152	357.2531(M)
21 Benzo(k)fluoranthene	252	8.592	8.603	(0.962)	91931	2.01311	160.8376(M)
22 Benzo(a)pyrene	252	8.874	8.880	(0.993)	108171	2.50168	199.8722
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.115	(1.132)	77382	1.90240	151.9926(M)
25 Dibenzo(a,h)anthracene	278	10.127	10.133	(1.134)	22769	0.57228	45.7220(M)
26 Benzo(g,h,i)perylene	276	10.462	10.474	(1.171)	86451	2.03173	162.3252

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC13009.D

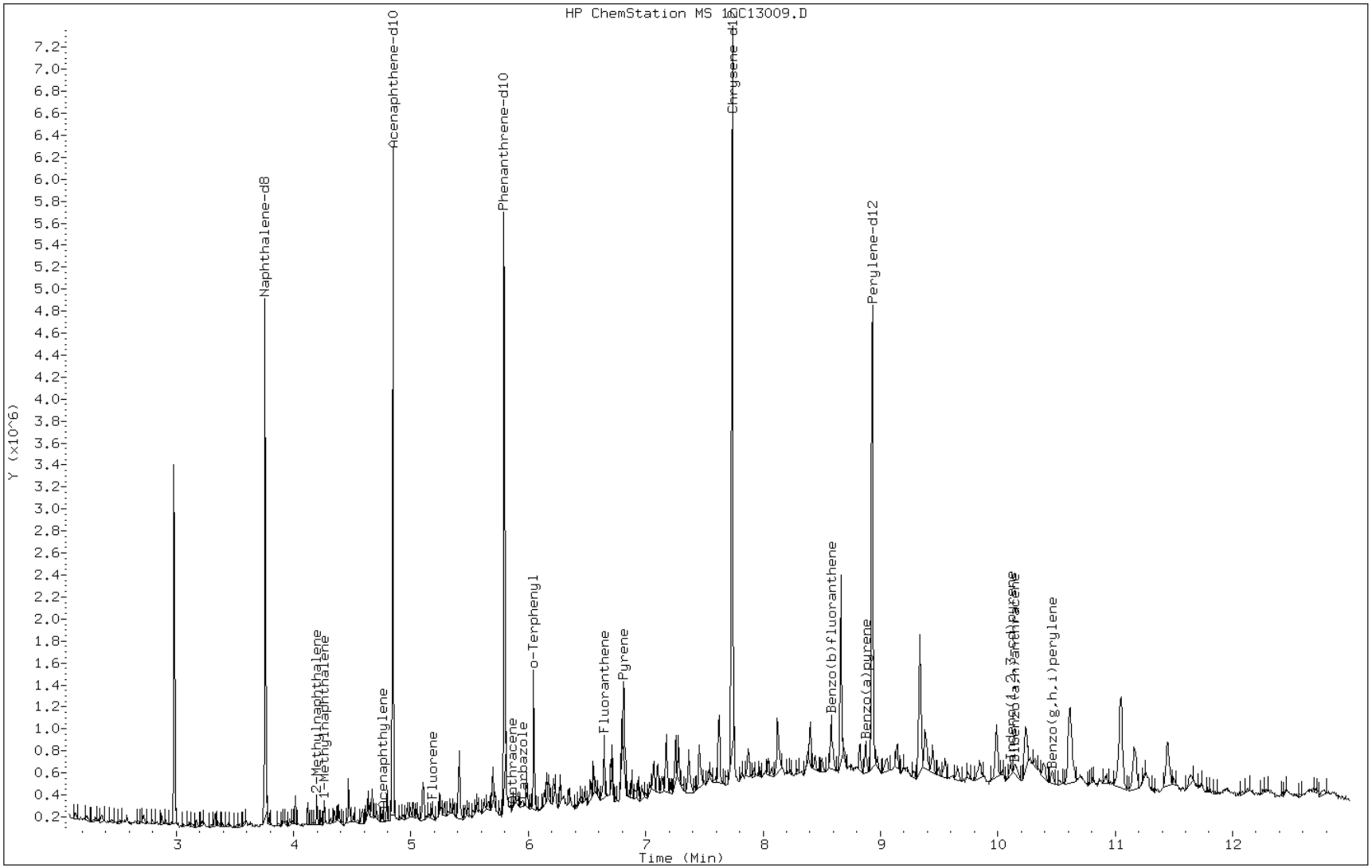
Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS

Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A

Operator: SCC



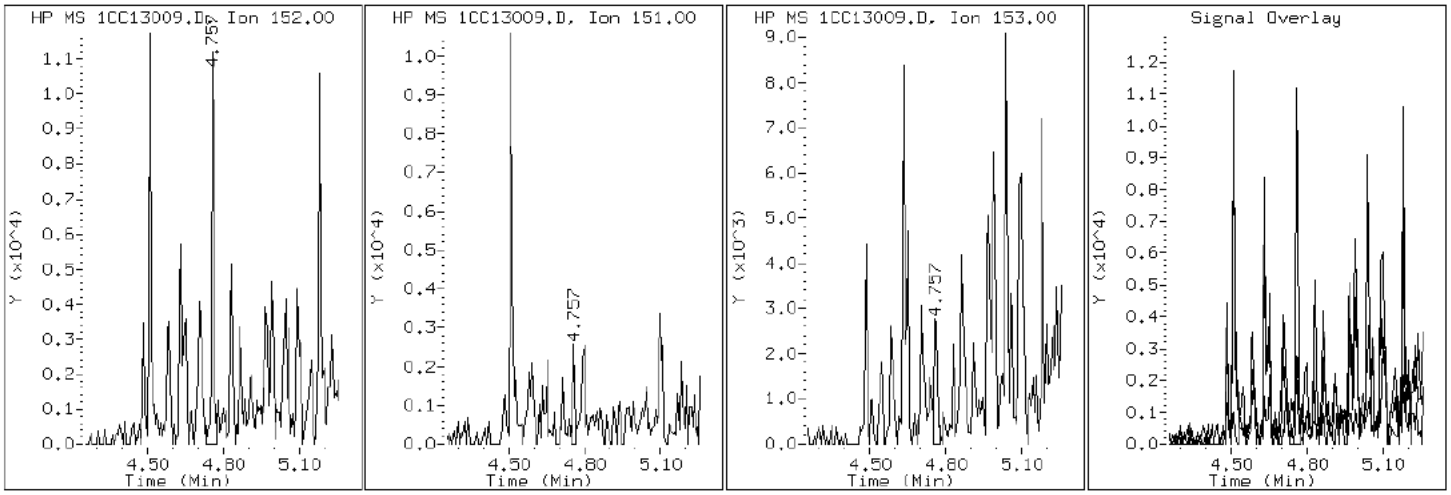
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

5 Acenaphthylene



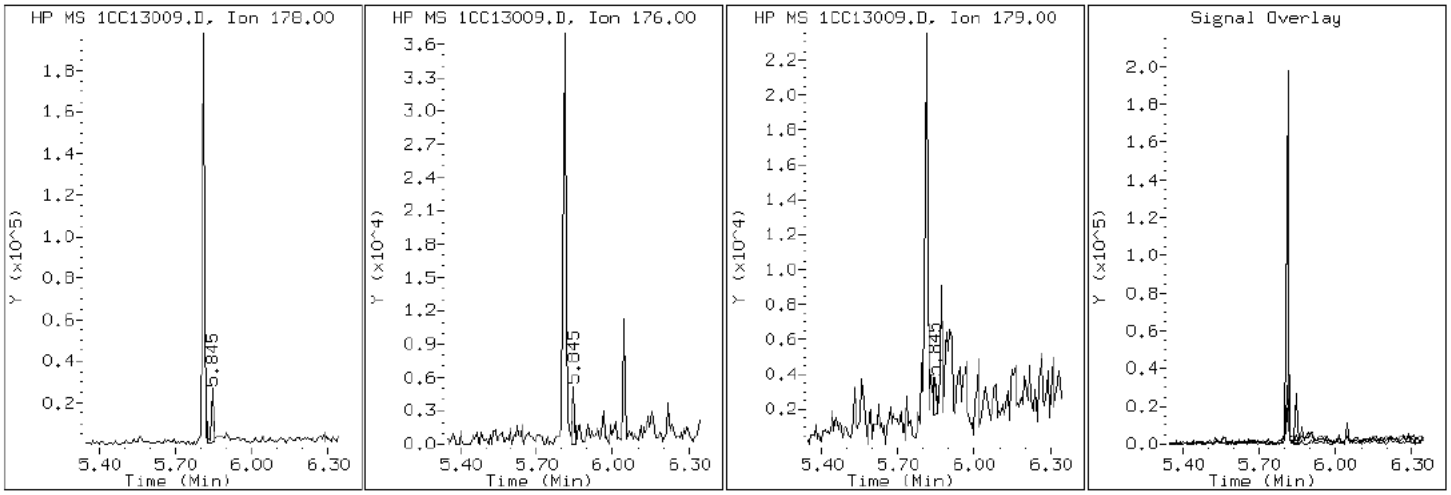
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

12 Anthracene



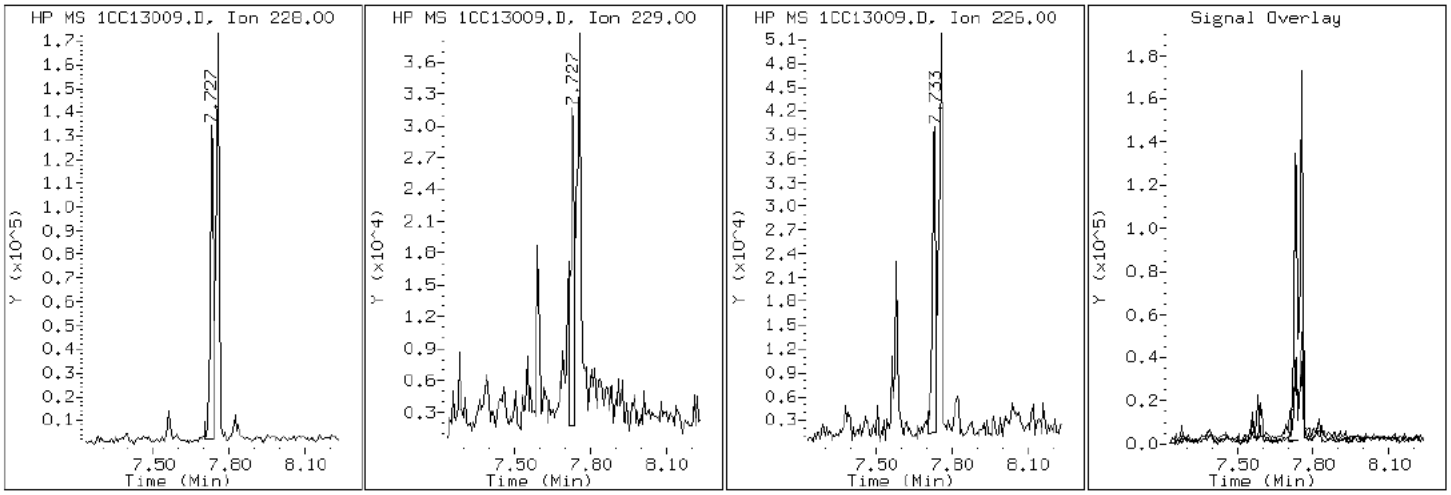
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

17 Benzo(a)anthracene



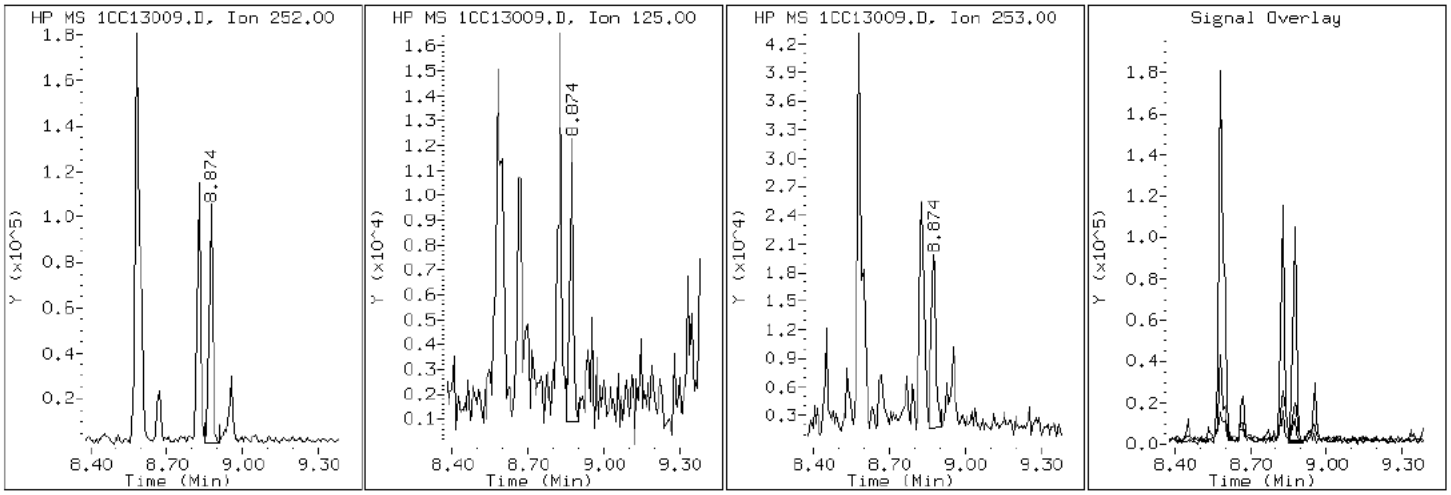
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

22 Benzo(a)pyrene



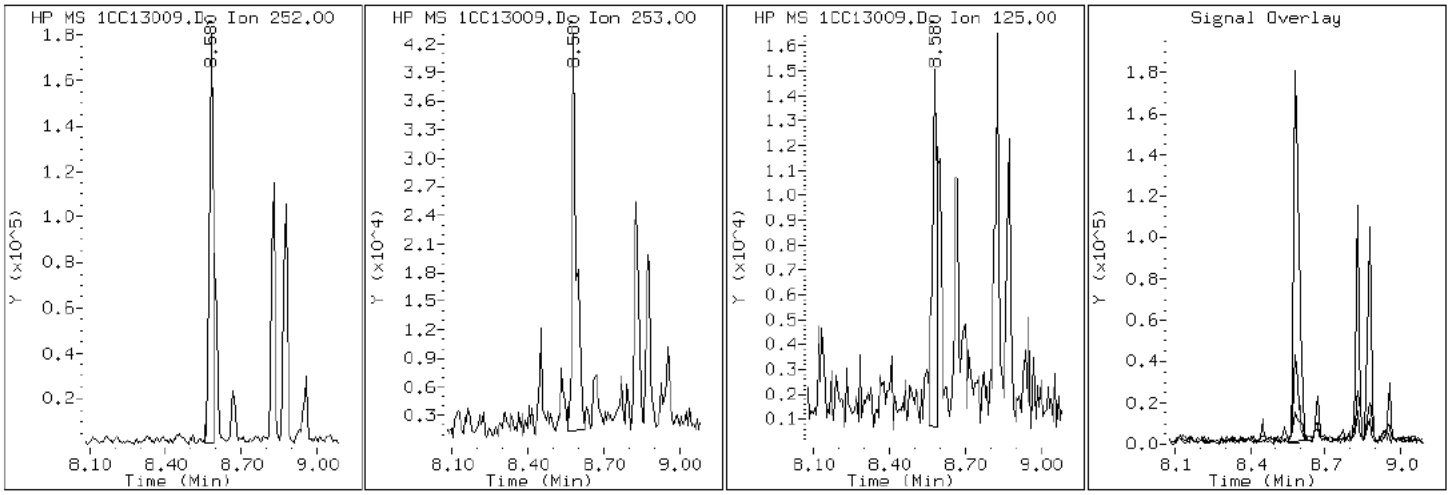
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

20 Benzo(b)fluoranthene



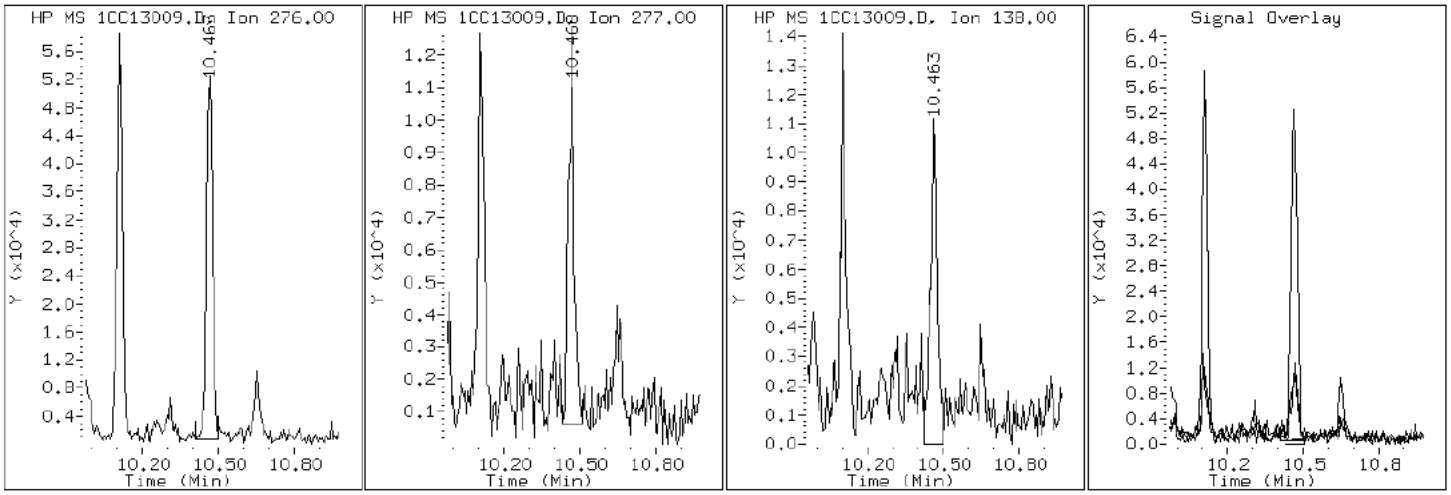
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

26 Benzo(g,h,i)perylene



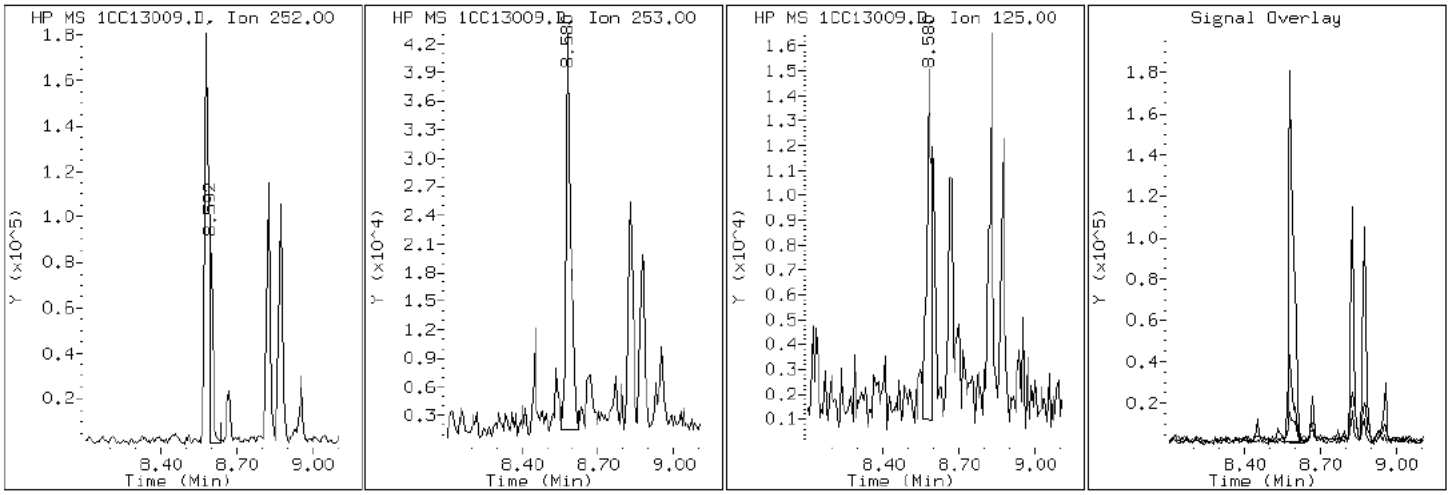
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

21 Benzo(k)fluoranthene



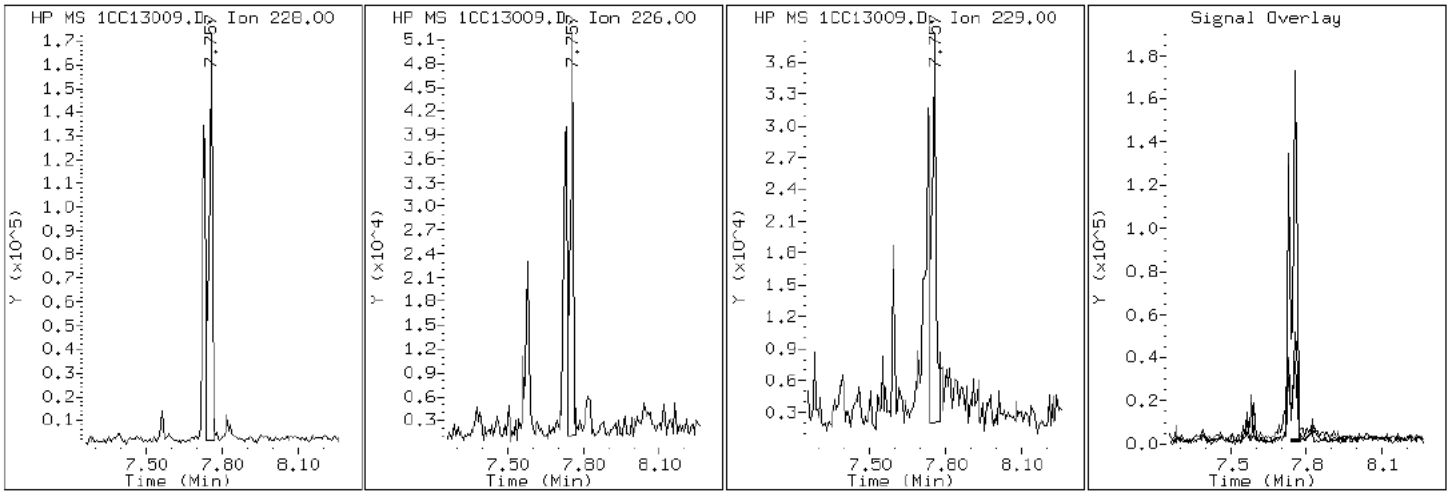
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

19 Chrysene



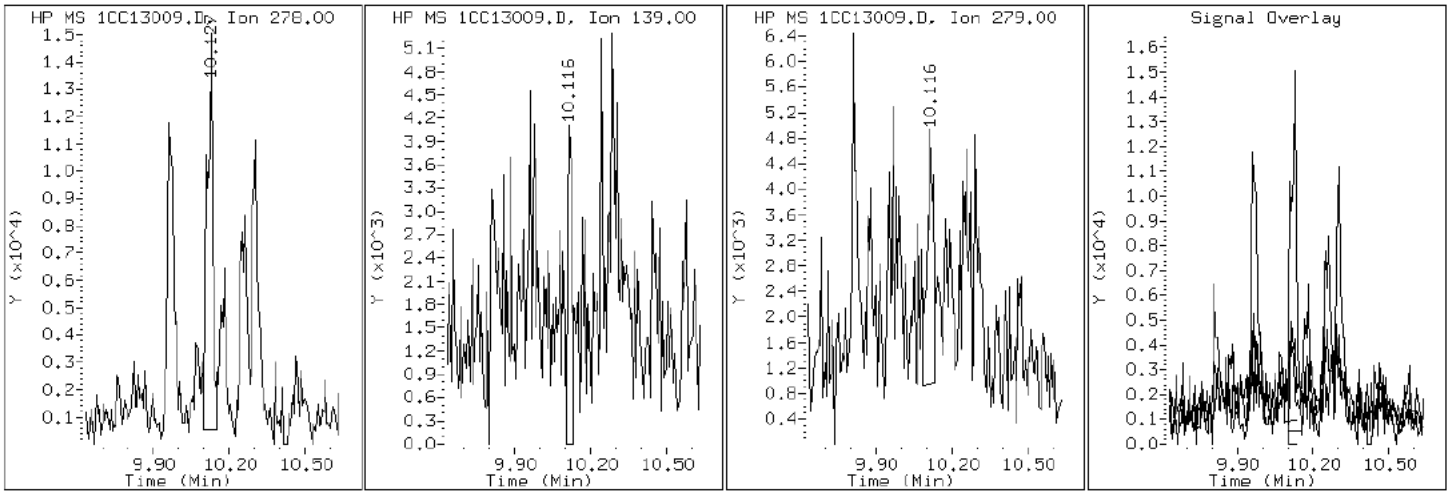
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

25 Dibenzo(a,h)anthracene



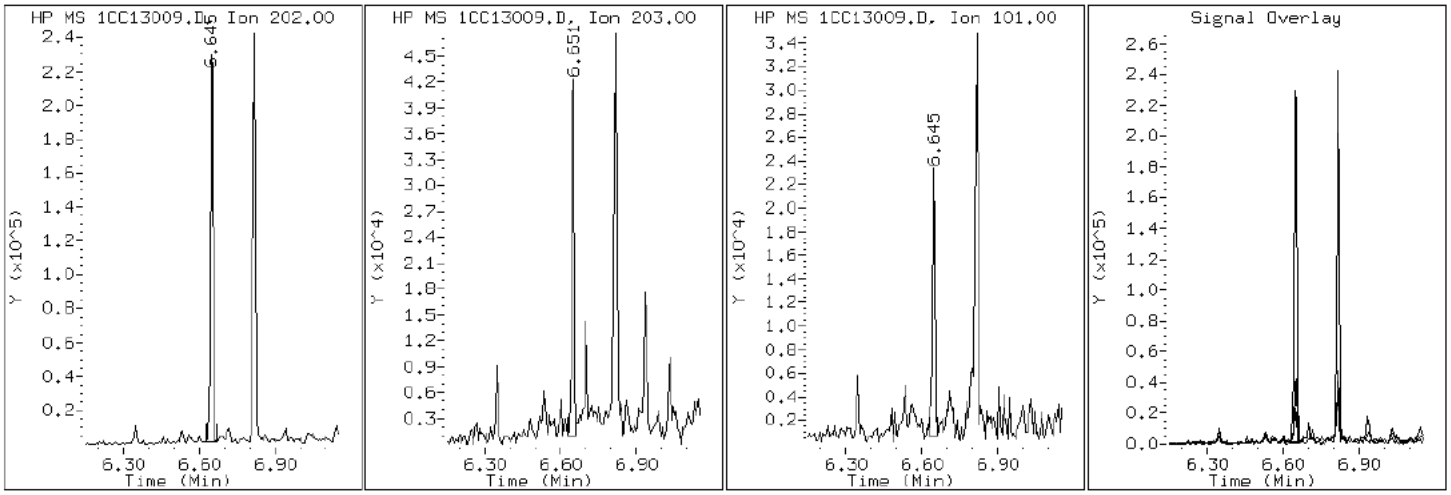
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

15 Fluoranthene



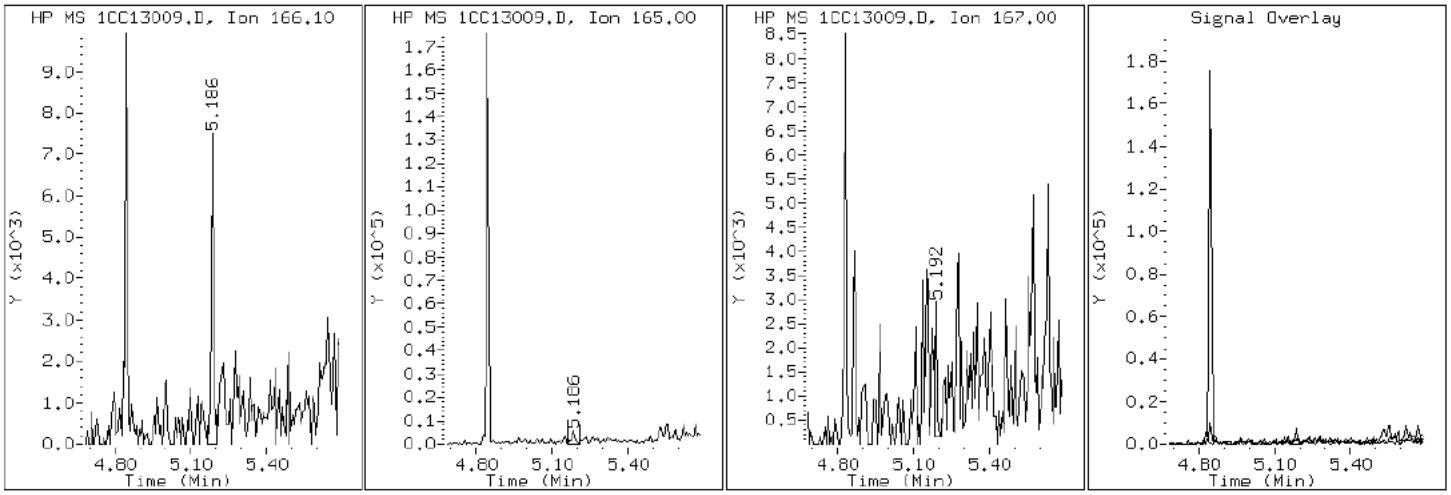
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

9 Fluorene



Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

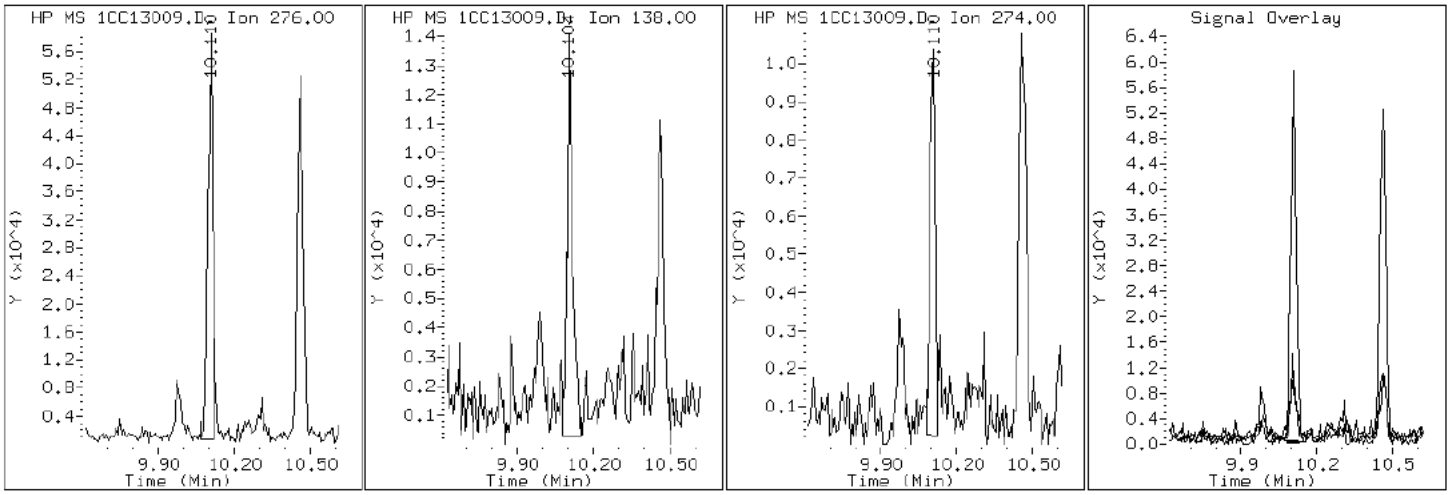
Client ID: CV0236A-CS

Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A

Operator: SCC

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



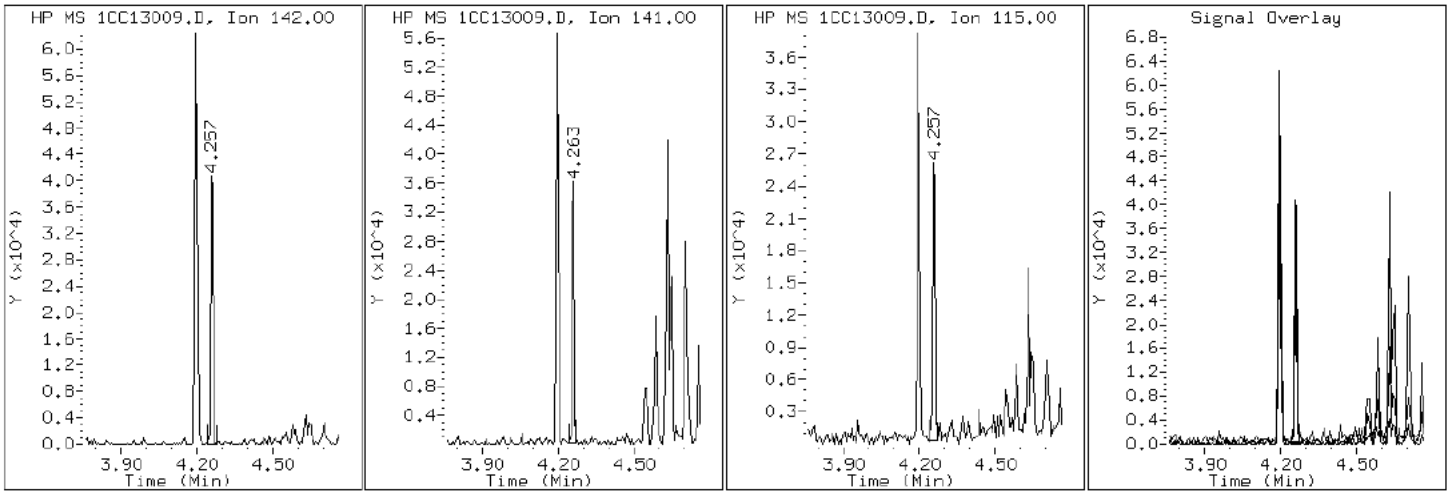
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

4 1-Methylnaphthalene



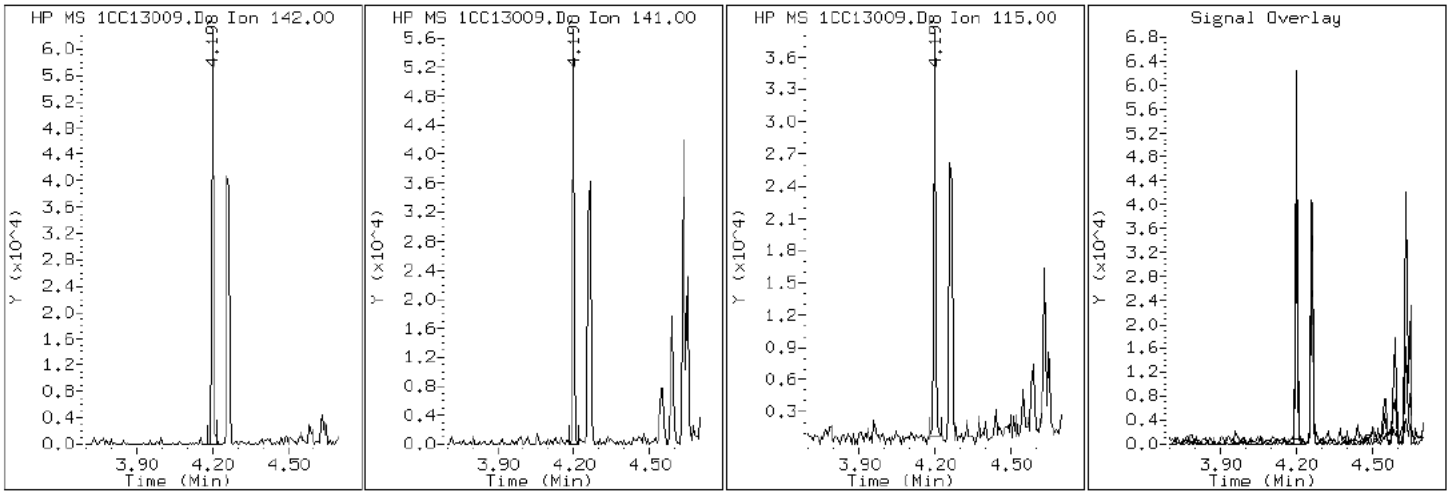
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

3 2-Methylnaphthalene



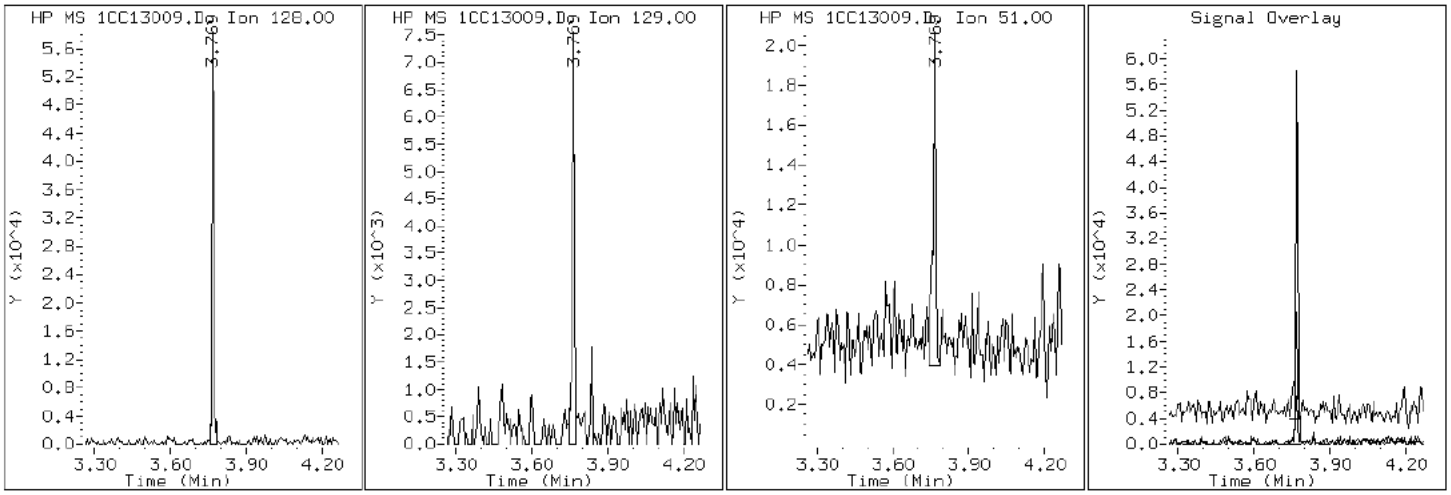
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

2 Naphthalene



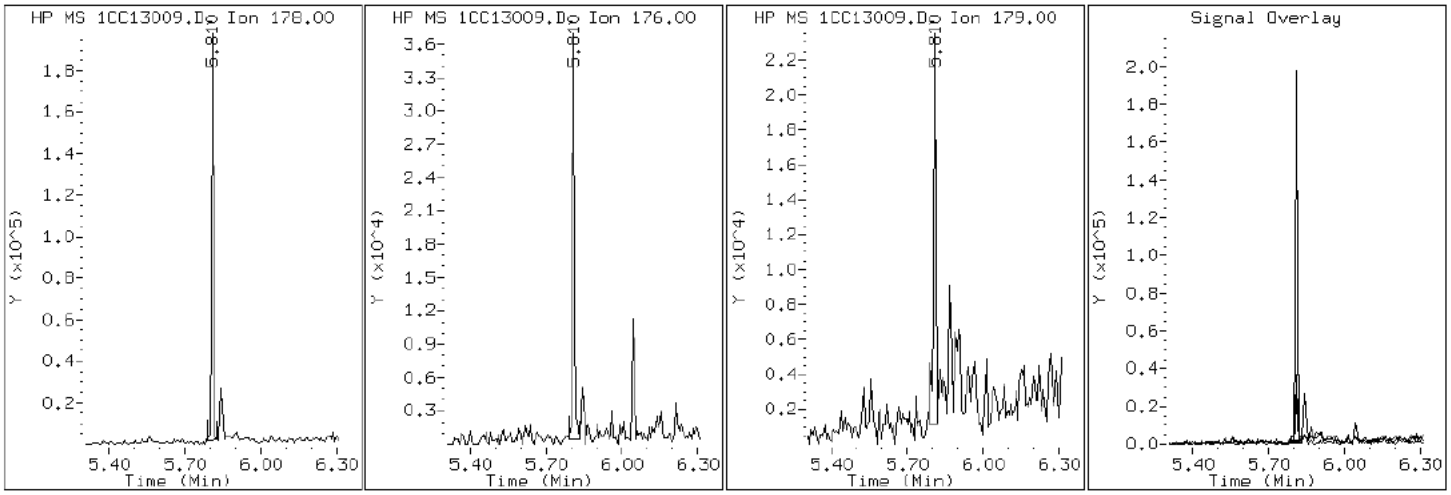
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

11 Phenanthrene



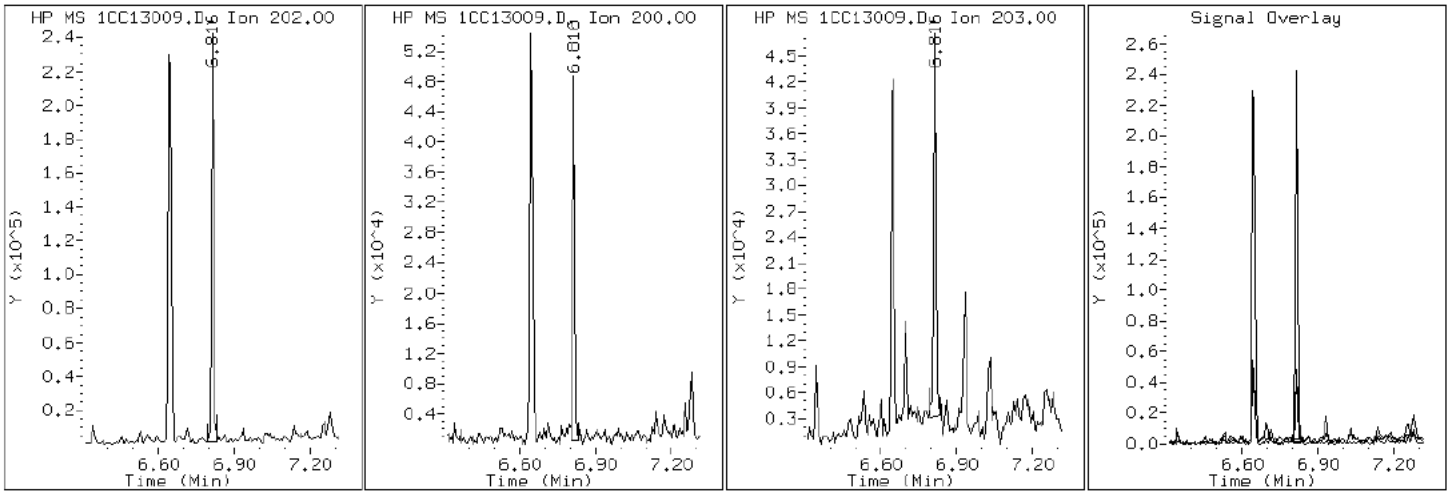
Data File: 1CC13009.D

Date: 13-MAR-2013 13:49

Client ID: CV0236A-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-15-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC13009.D
Inj. Date and Time: 13-MAR-2013 13:49
Instrument ID: BSMC5973.i
Client ID: CV0236A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

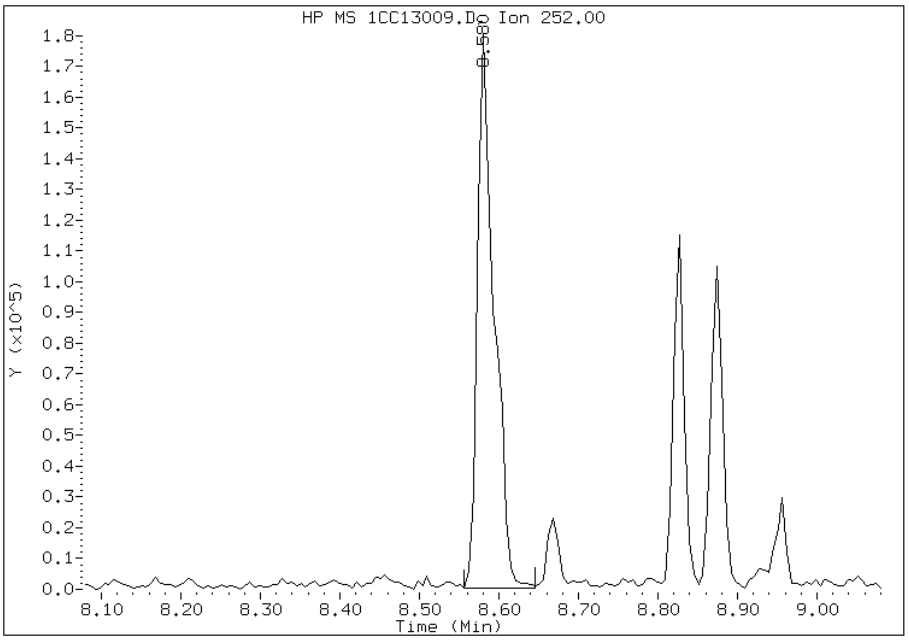
Processing Integration Results

RT: 8.58

Response: 259374

Amount: 6

Conc: 466



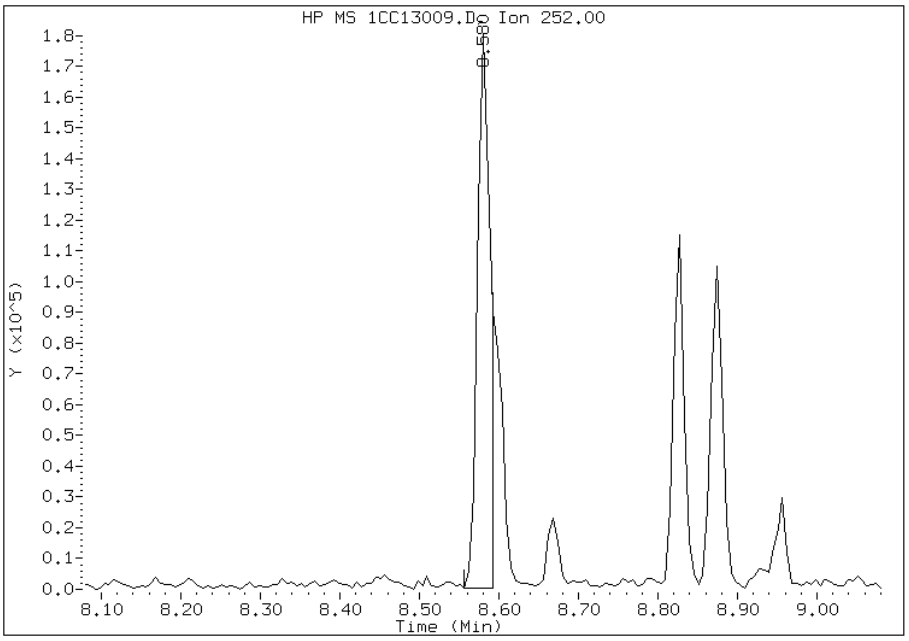
Manual Integration Results

RT: 8.58

Response: 199053

Amount: 4

Conc: 357



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC13009.D
Inj. Date and Time: 13-MAR-2013 13:49
Instrument ID: BSMC5973.i
Client ID: CV0236A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

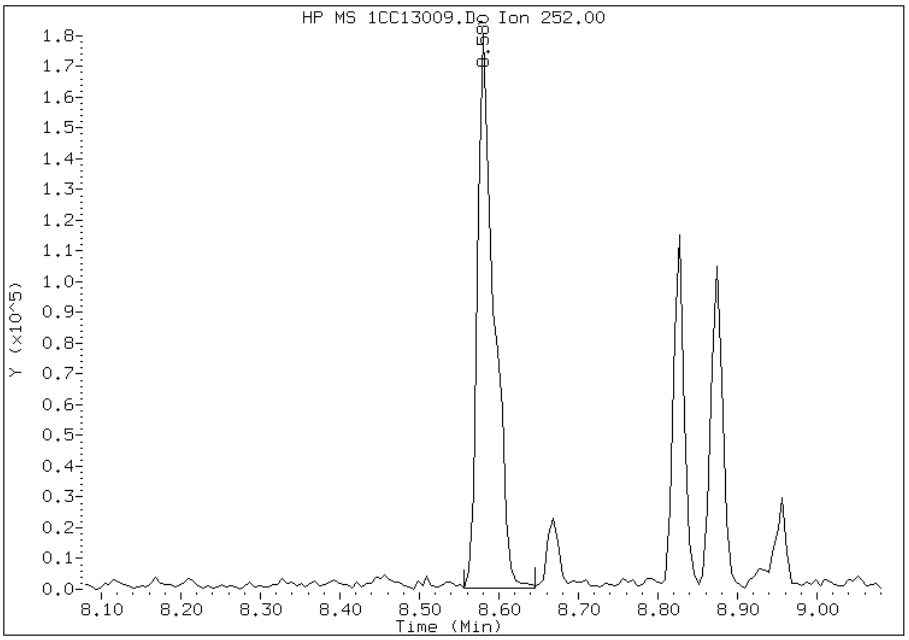
Processing Integration Results

RT: 8.58

Response: 259914

Amount: 6

Conc: 455



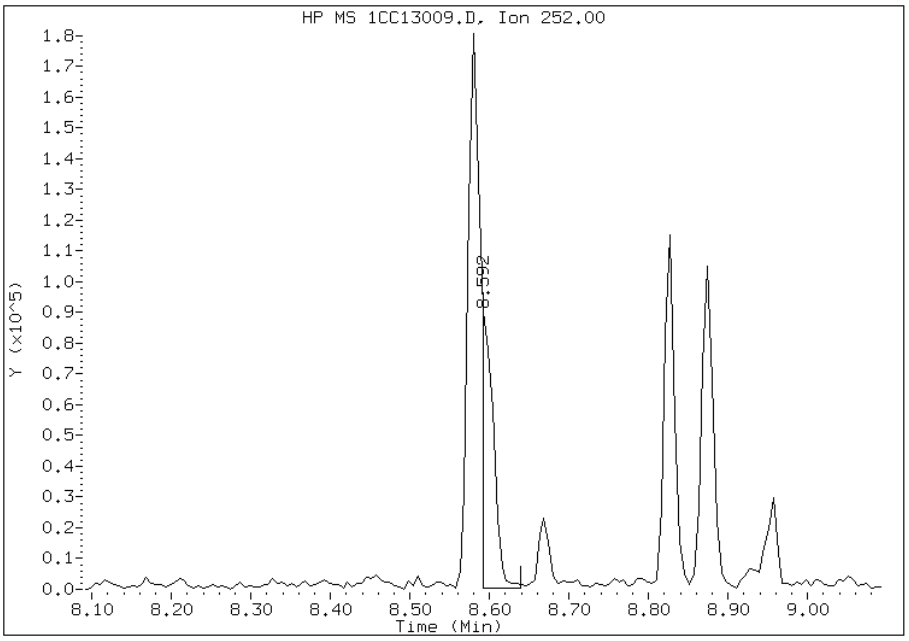
Manual Integration Results

RT: 8.59

Response: 91931

Amount: 2

Conc: 161



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC13009.D
Inj. Date and Time: 13-MAR-2013 13:49
Instrument ID: BSMC5973.i
Client ID: CV0236A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/13/2013

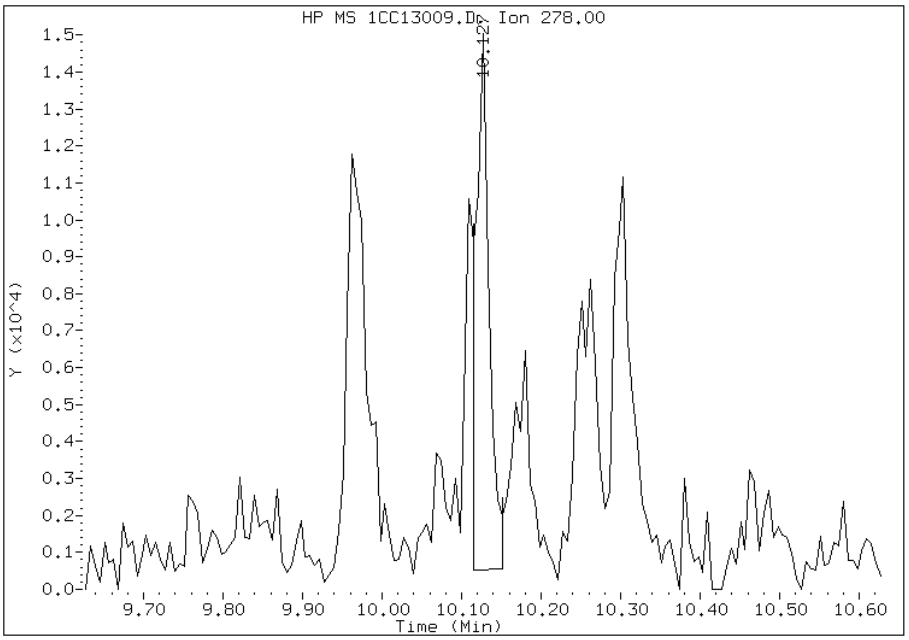
Processing Integration Results

RT: 10.13

Response: 17231

Amount: 0

Conc: 35



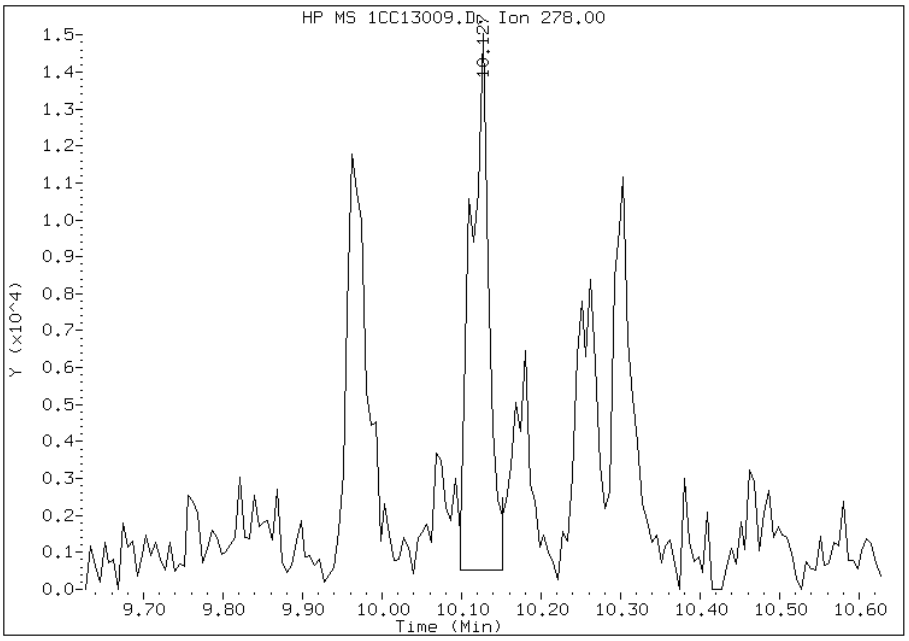
Manual Integration Results

RT: 10.13

Response: 22769

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC13009.D
Inj. Date and Time: 13-MAR-2013 13:49
Instrument ID: BSMC5973.i
Client ID: CV0236A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

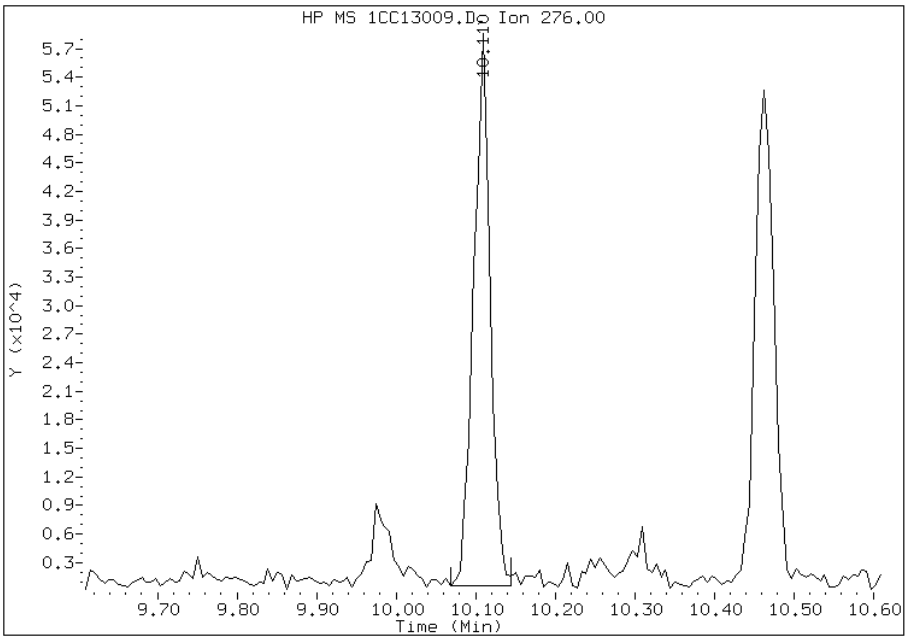
Processing Integration Results

RT: 10.11

Response: 82766

Amount: 2

Conc: 163



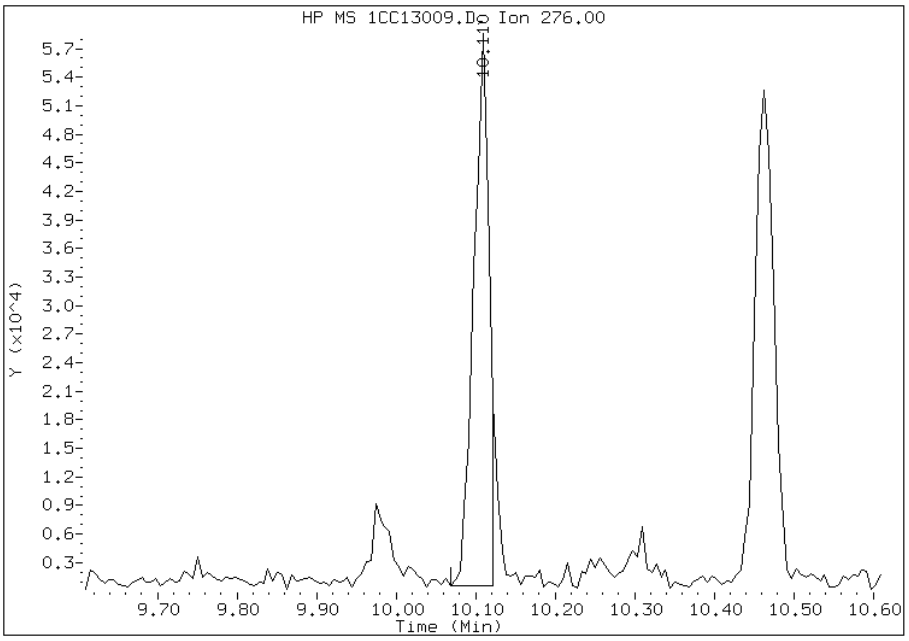
Manual Integration Results

RT: 10.11

Response: 77382

Amount: 2

Conc: 152



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0236B-CS | Lab Sample ID: 680-88065-16

Matrix: Solid | Lab File ID: 1CC13010.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 15:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.04(g) | Date Analyzed: 03/13/2013 14:07

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.: 135360 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	39	J	210	26
120-12-7	Anthracene	71		44	22
56-55-3	Benzo[a]anthracene	480		42	20
50-32-8	Benzo[a]pyrene	360		54	27
205-99-2	Benzo[b]fluoranthene	620		64	32
191-24-2	Benzo[g,h,i]perylene	280		100	23
207-08-9	Benzo[k]fluoranthene	170		42	19
218-01-9	Chrysene	450		47	24
53-70-3	Dibenz(a,h)anthracene	96	J	100	21
206-44-0	Fluoranthene	710		100	21
86-73-7	Fluorene	39	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	230		100	37
90-12-0	1-Methylnaphthalene	480		210	23
91-57-6	2-Methylnaphthalene	530		210	37
91-20-3	Naphthalene	340		210	23
85-01-8	Phenanthrene	520		42	20
129-00-0	Pyrene	610		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13010.D
Lab Smp Id: 680-88065-A-16-A Client Smp ID: CV0236B-CS
Inj Date : 13-MAR-2013 14:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-A-16-A
Misc Info : 680-88065-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	24.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.757	3.757	(1.000)	1156803	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	902336	40.0000	
* 10 Phenanthrene-d10	188	5.798	5.798	(1.000)	1653628	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.043)	37733	1.51132	528.8763
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1931635	40.0000	
* 23 Perylene-d12	264	8.933	8.933	(1.000)	1954042	40.0000	
2 Naphthalene	128	3.774	3.768	(1.005)	29221	0.97028	339.5447
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	30700	1.52823	534.7932
4 1-Methylnaphthalene	142	4.262	4.262	(1.135)	25045	1.36888	479.0317
5 Acenaphthylene	152	4.762	4.757	(0.983)	4031	0.11080	38.7754(Q)
9 Fluorene	166	5.186	5.186	(1.070)	3208	0.11218	39.2569(Q)
11 Phenanthrene	178	5.809	5.809	(1.002)	71085	1.48665	520.2436
12 Anthracene	178	5.845	5.845	(1.008)	9534	0.20388	71.3457
13 Carbazole	167	5.951	5.951	(1.026)	8569	0.20614	72.1365

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.651	6.651	(1.147)	105972	2.02376	708.2032
16 Pyrene	202	6.815	6.815	(0.881)	91181	1.75652	614.6849
17 Benzo(a)anthracene	228	7.733	7.733	(0.999)	76172	1.36630	478.1271
19 Chrysene	228	7.756	7.762	(1.002)	71417	1.28004	447.9438
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.960)	90998	1.78196	623.5845
21 Benzo(k)fluoranthene	252	8.603	8.603	(0.963)	26022	0.49673	173.8291(Q)
22 Benzo(a)pyrene	252	8.874	8.880	(0.993)	50914	1.02645	359.1988
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.115	(1.132)	30568	0.65510	229.2481(M)
25 Dibenzo(a,h)anthracene	278	10.121	10.133	(1.133)	12548	0.27492	96.2081
26 Benzo(g,h,i)perylene	276	10.462	10.474	(1.171)	39601	0.81130	283.9085

QC Flag Legend

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

Data File: 1CC13010.D

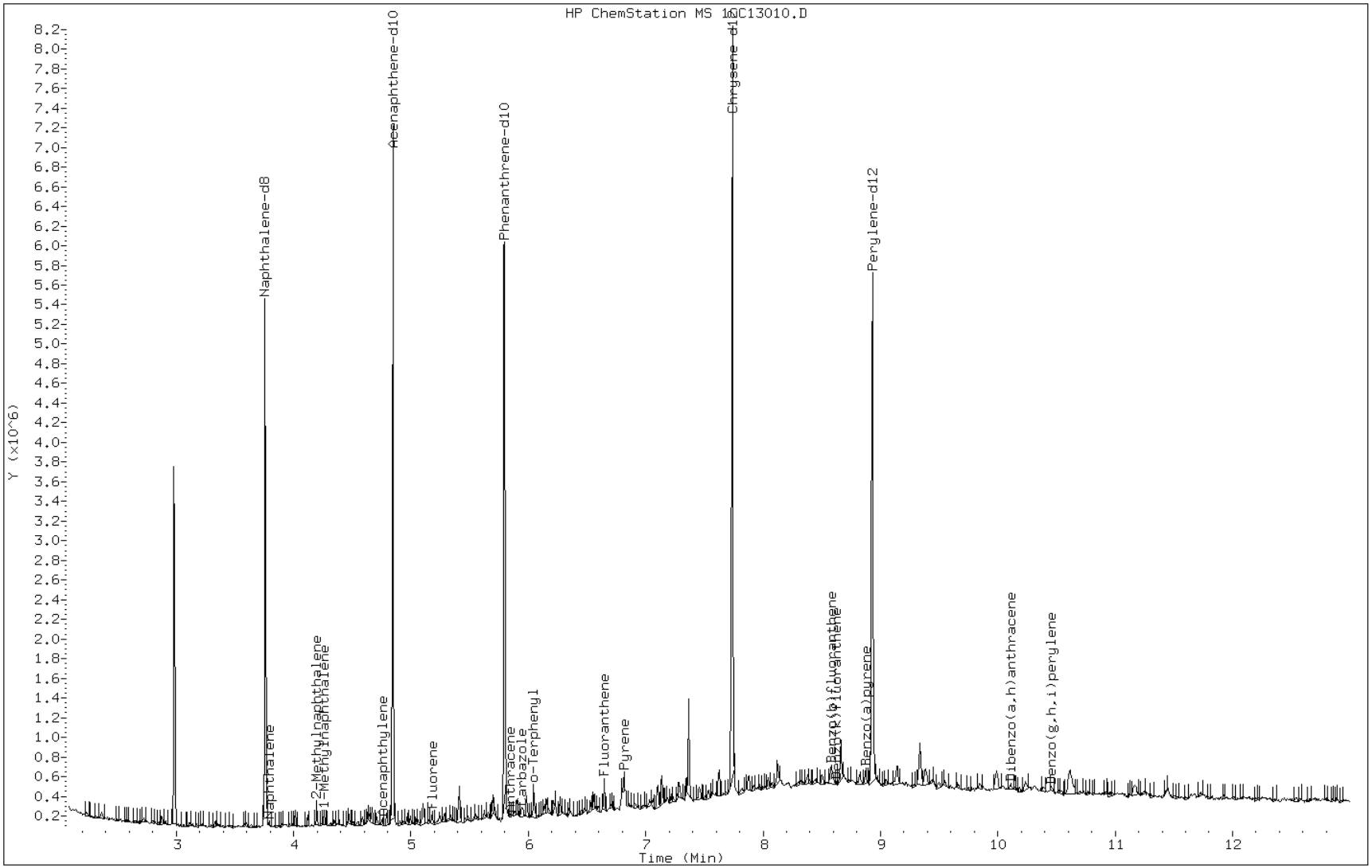
Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS

Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A

Operator: SCC



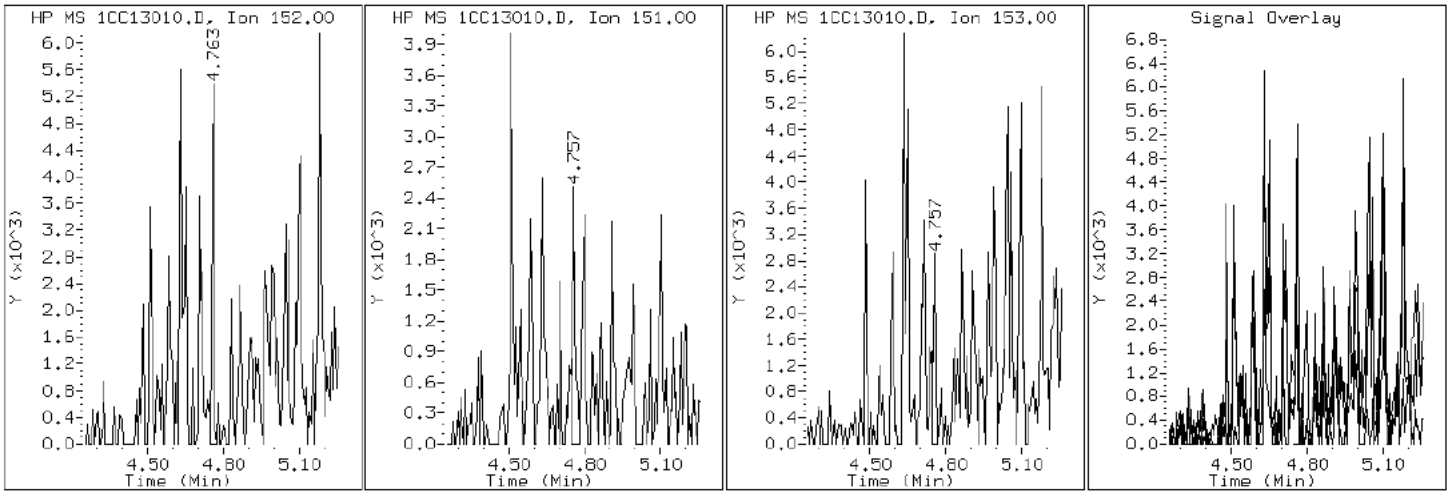
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

5 Acenaphthylene



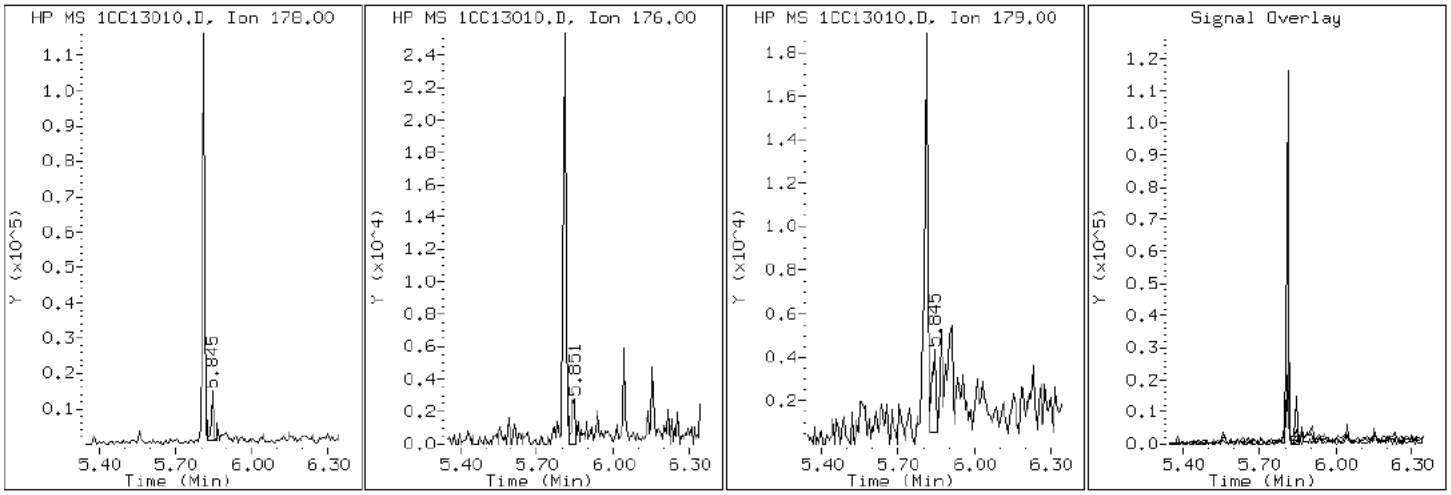
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

12 Anthracene



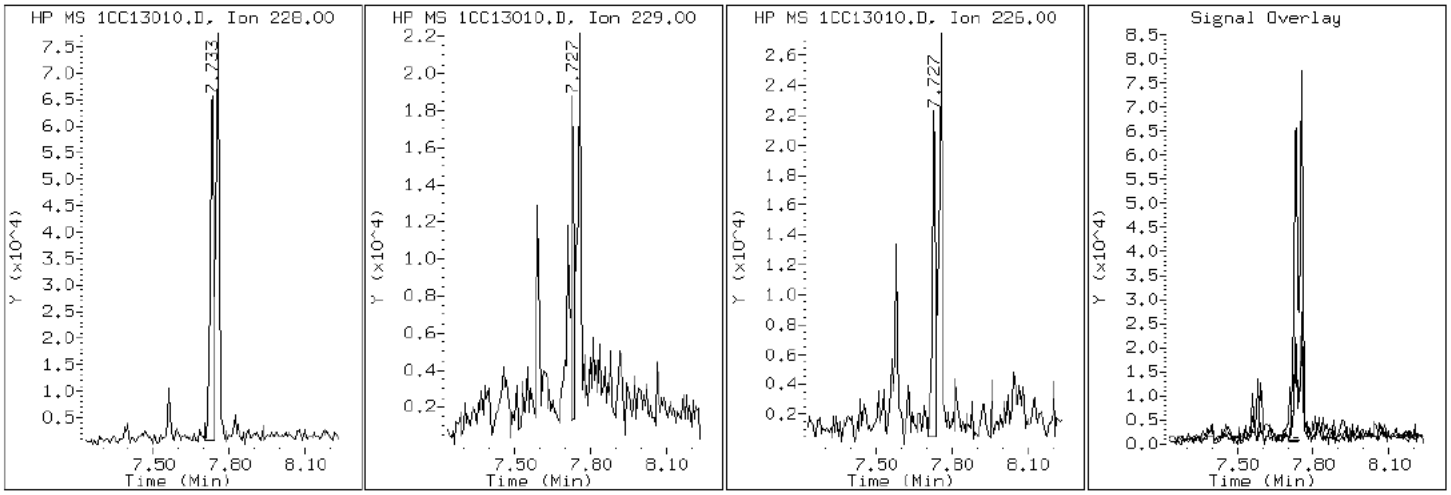
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

17 Benzo(a)anthracene



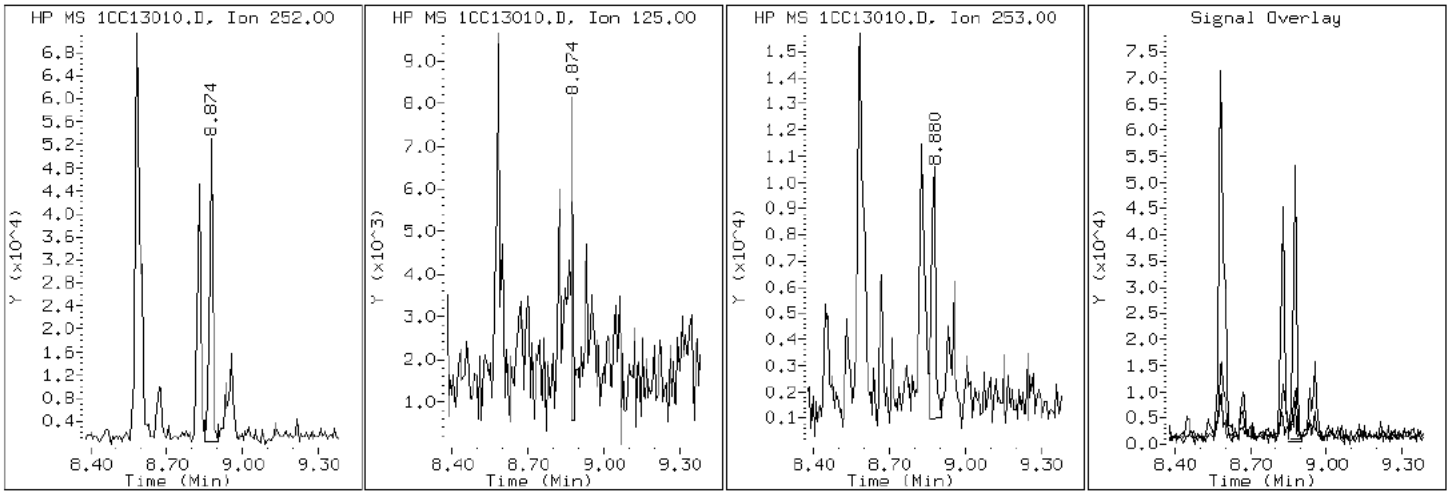
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

22 Benzo(a)pyrene



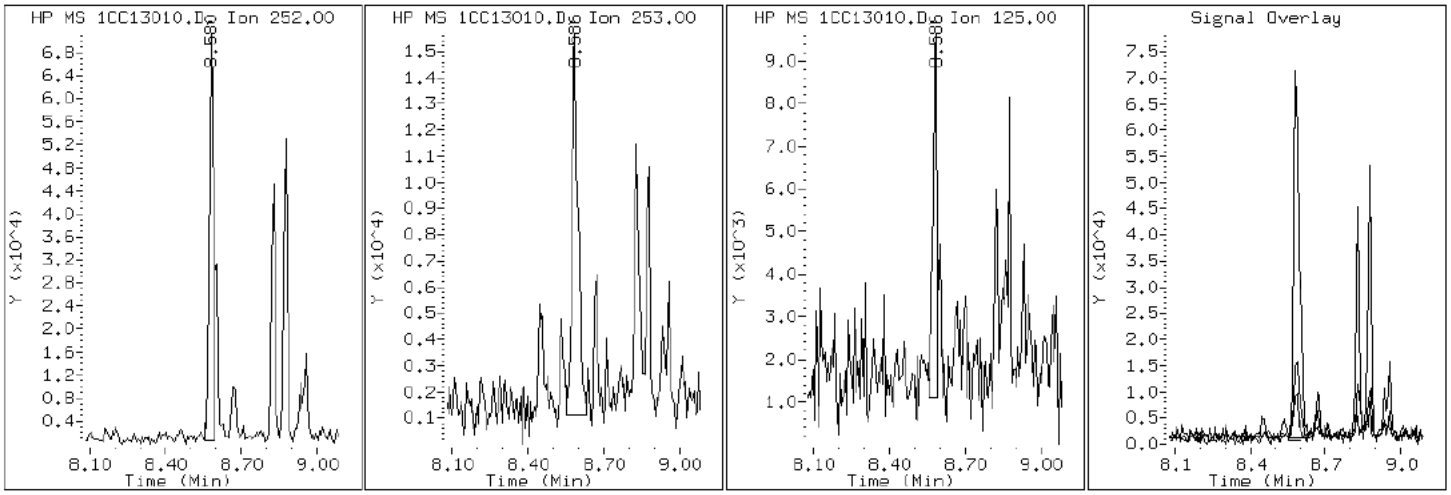
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

20 Benzo(b)fluoranthene



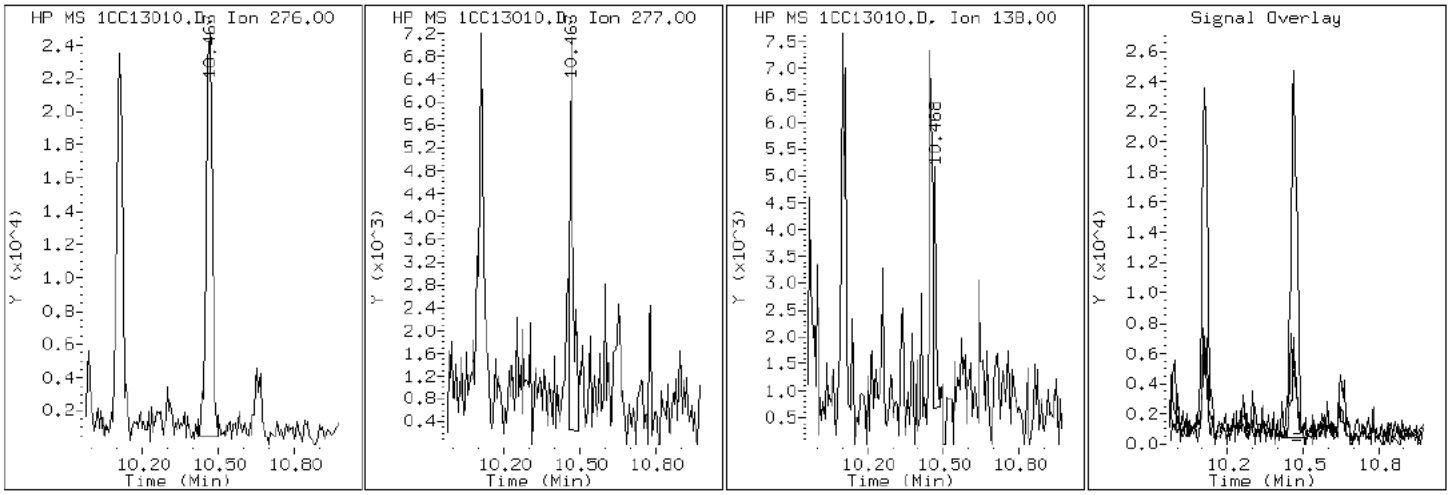
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

26 Benzo(g,h,i)perylene



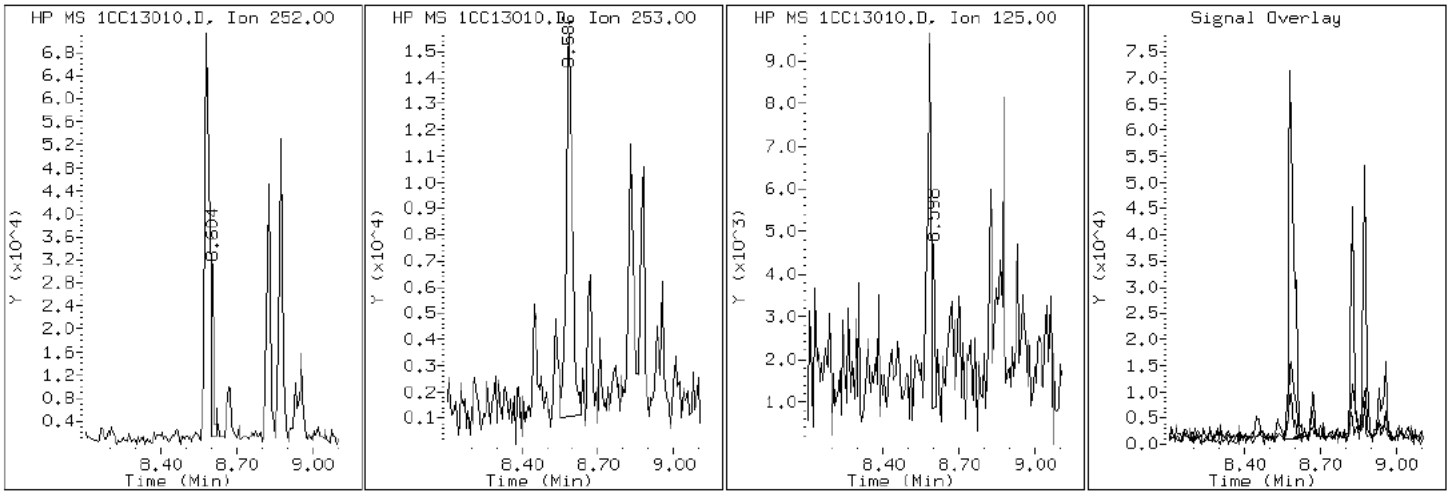
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

21 Benzo(k)fluoranthene



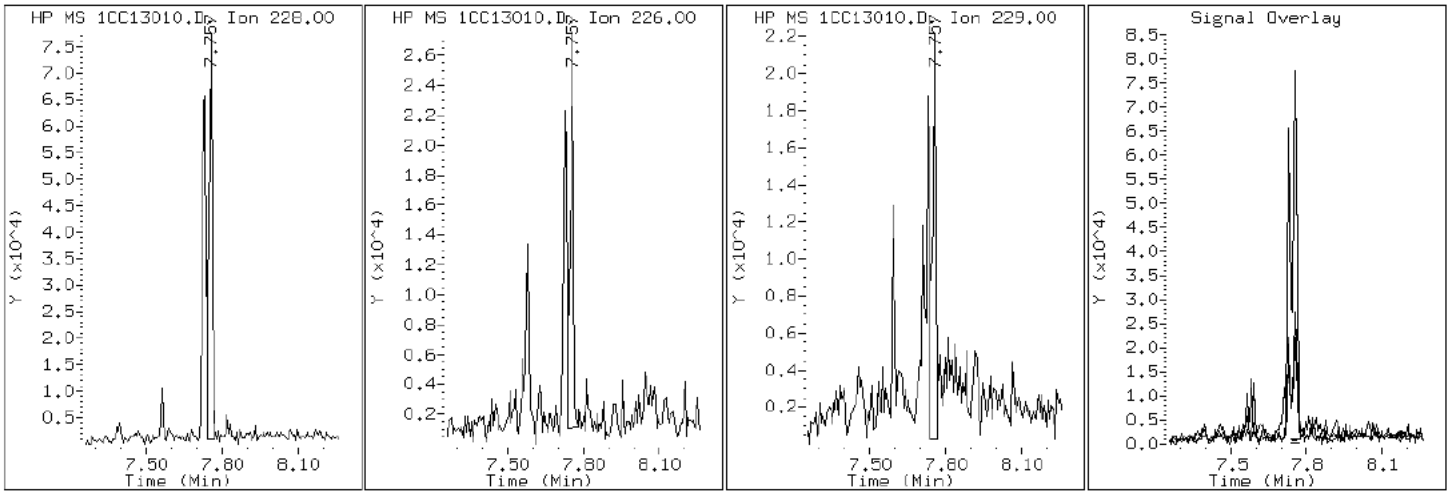
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

19 Chrysene



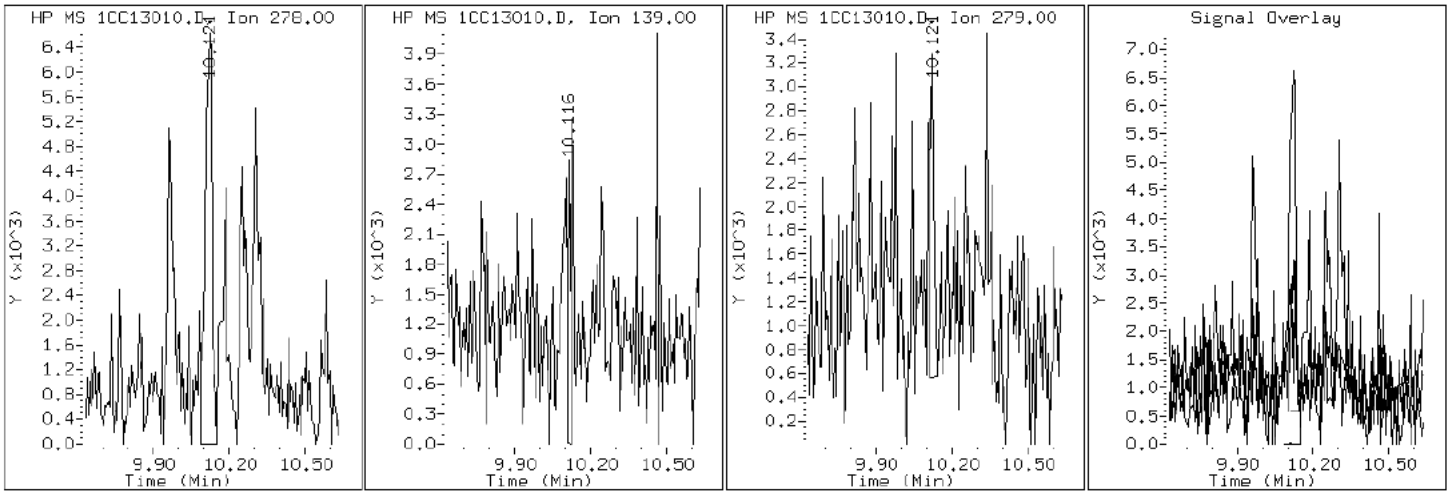
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

25 Dibenzo(a,h)anthracene



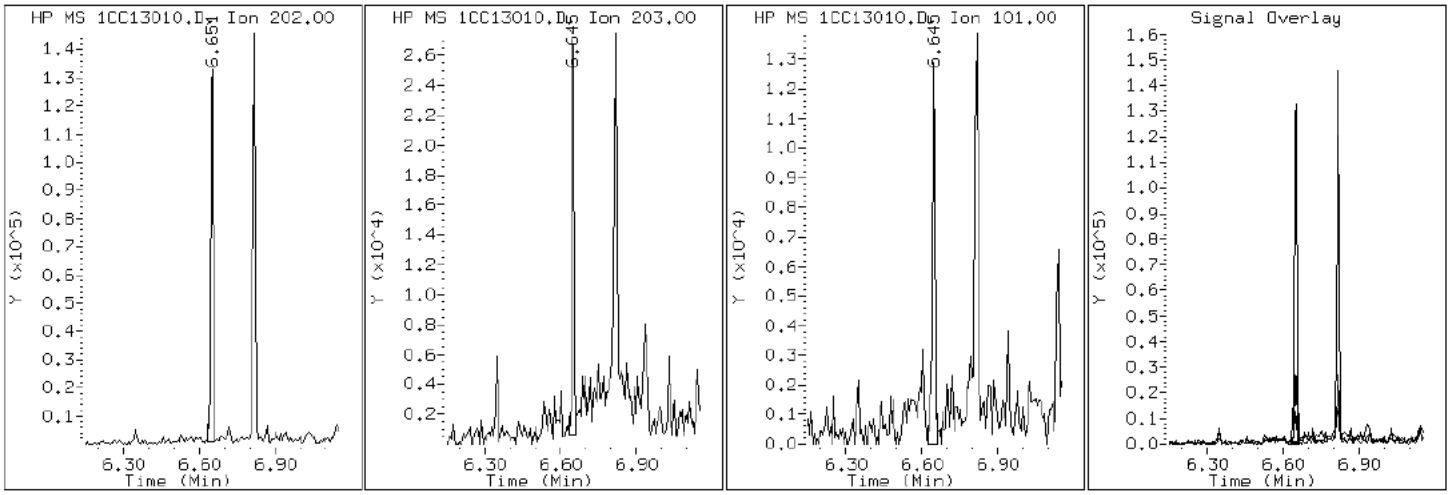
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

15 Fluoranthene



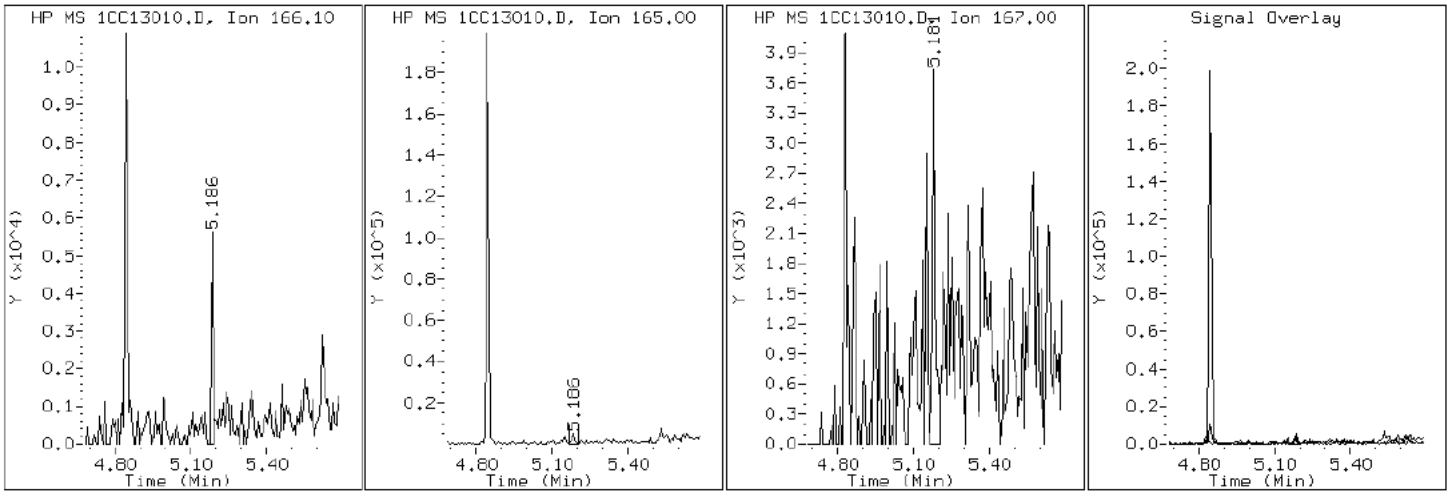
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

9 Fluorene



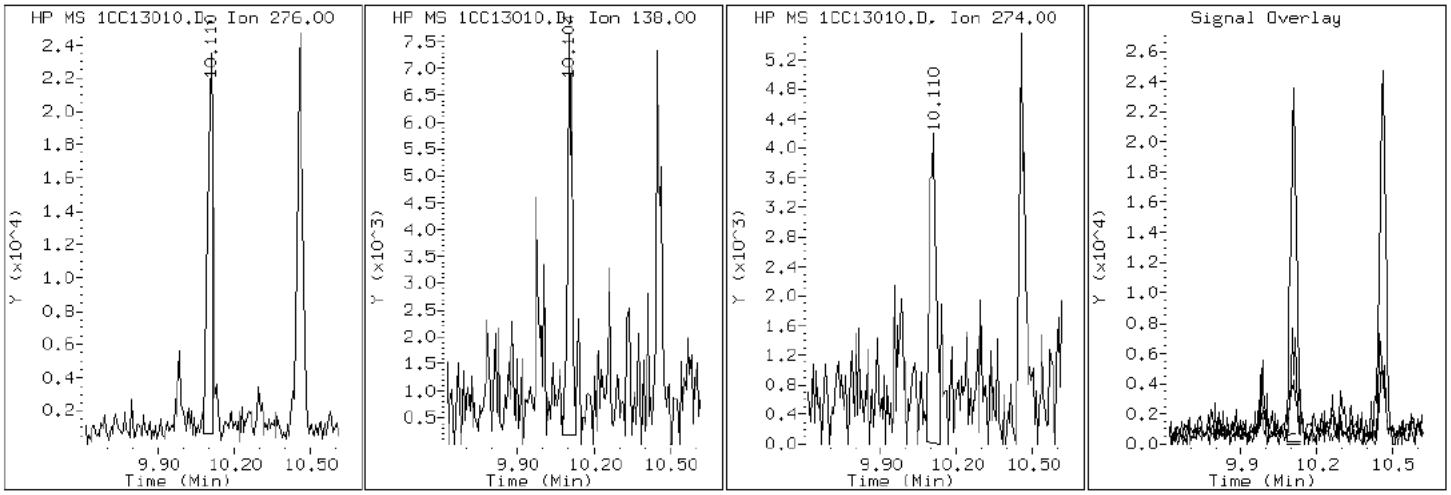
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

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



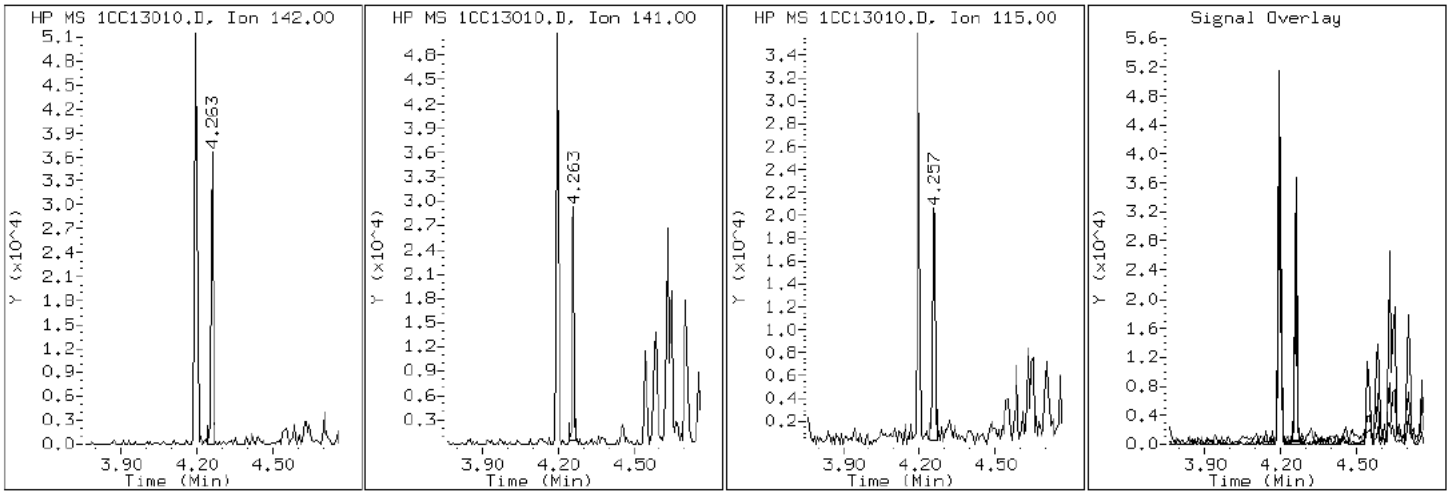
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

4 1-Methylnaphthalene



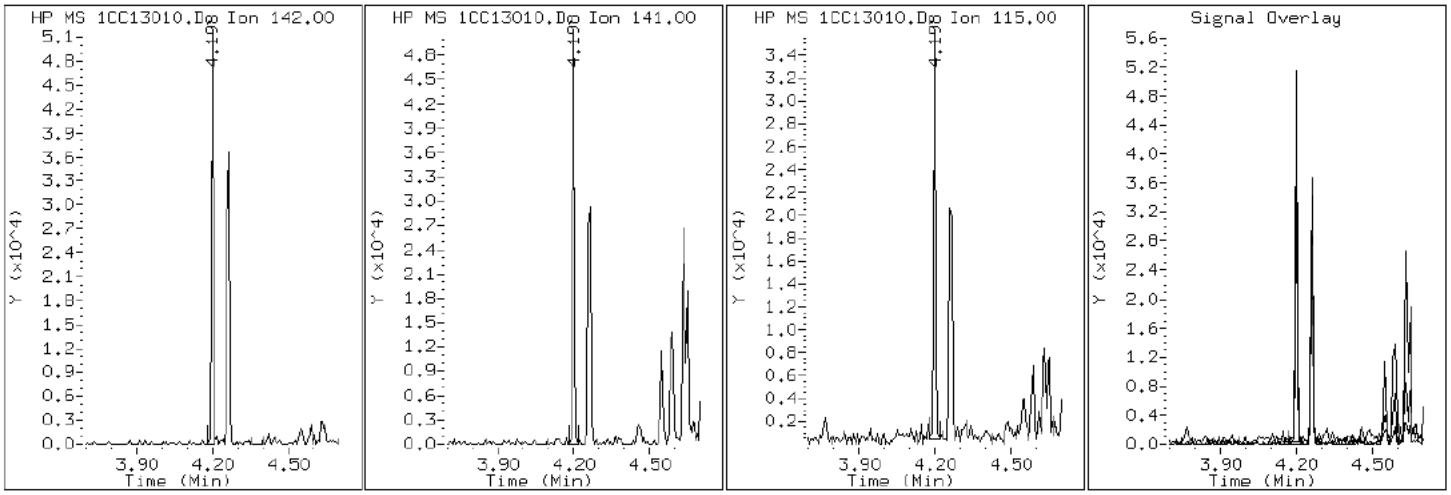
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

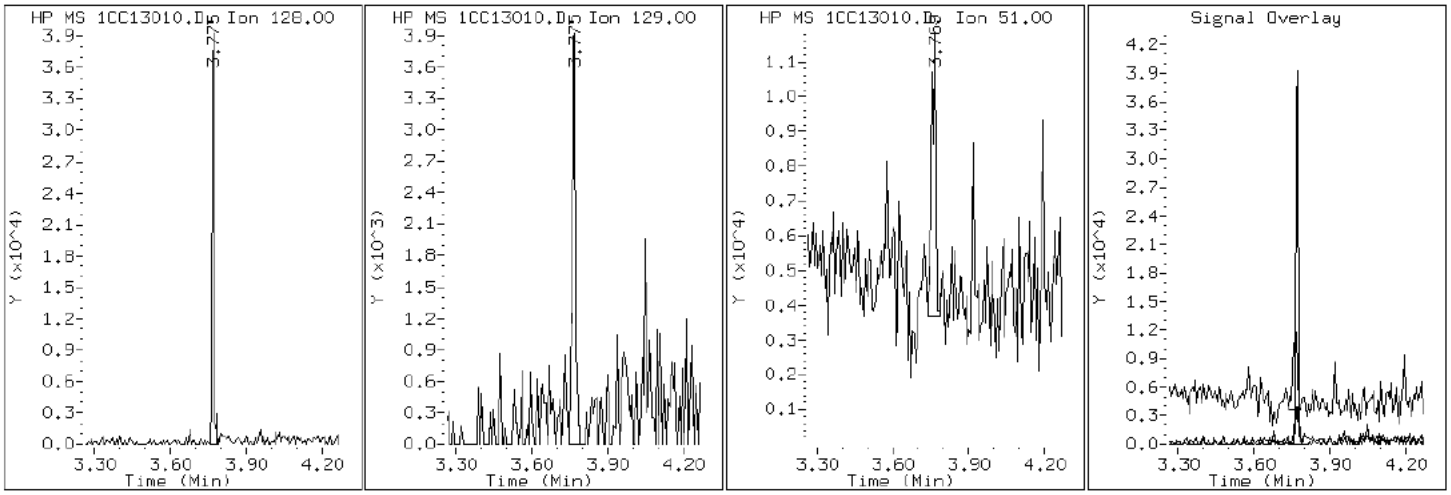
Client ID: CV0236B-CS

Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A

Operator: SCC

2 Naphthalene



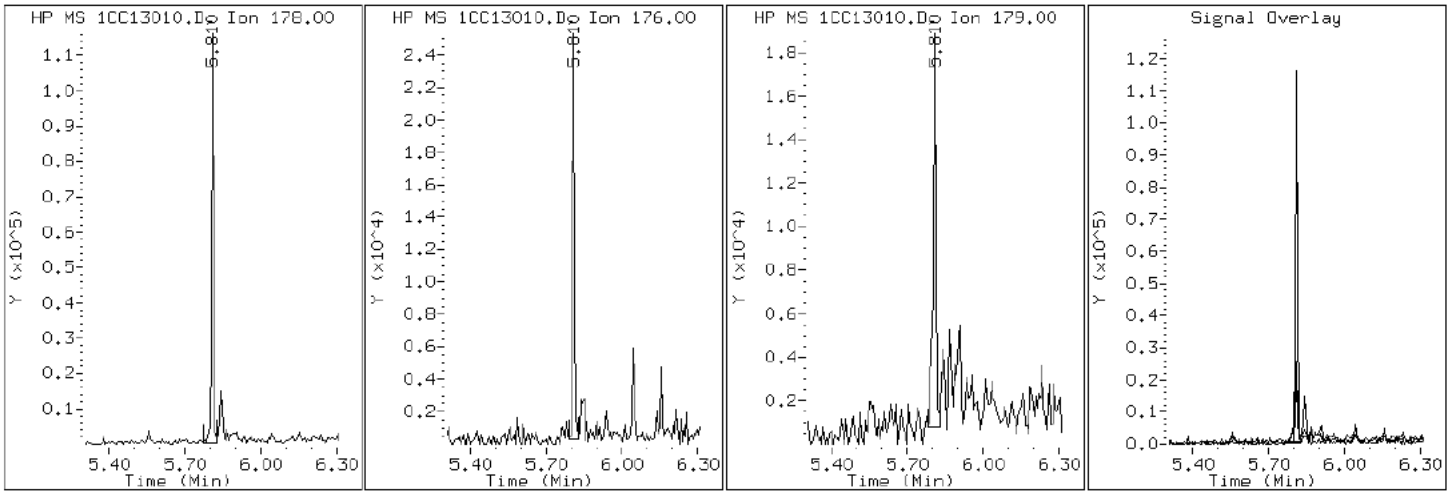
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

11 Phenanthrene



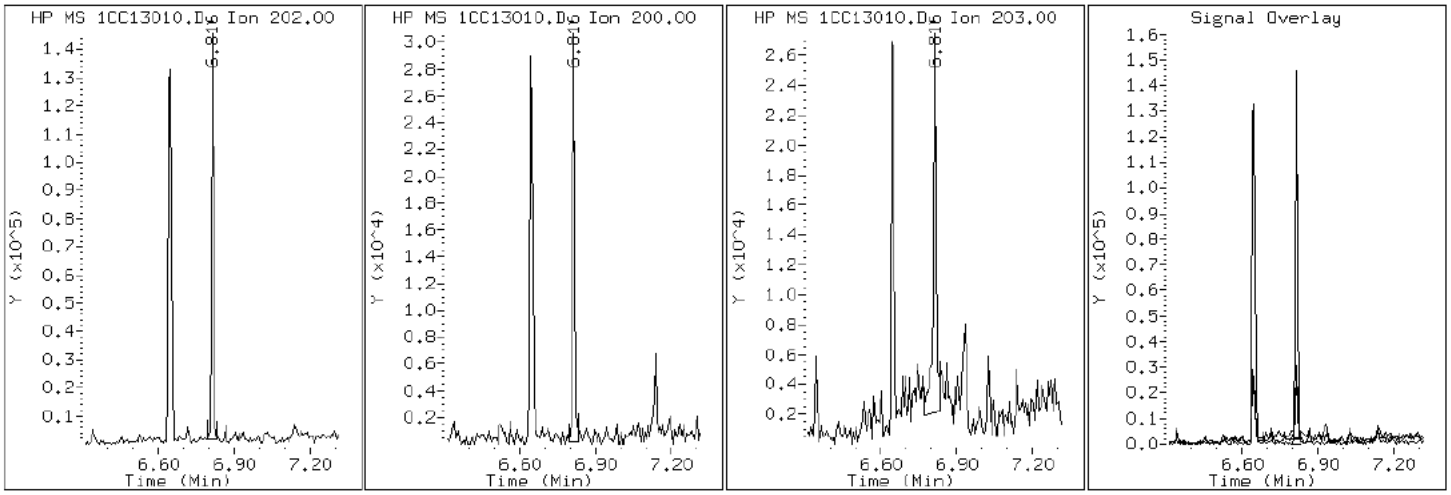
Data File: 1CC13010.D

Date: 13-MAR-2013 14:07

Client ID: CV0236B-CS Instrument: BSMC5973.i

Sample Info: 680-88065-A-16-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC13010.D
Inj. Date and Time: 13-MAR-2013 14:07
Instrument ID: BSMC5973.i
Client ID: CV0236B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

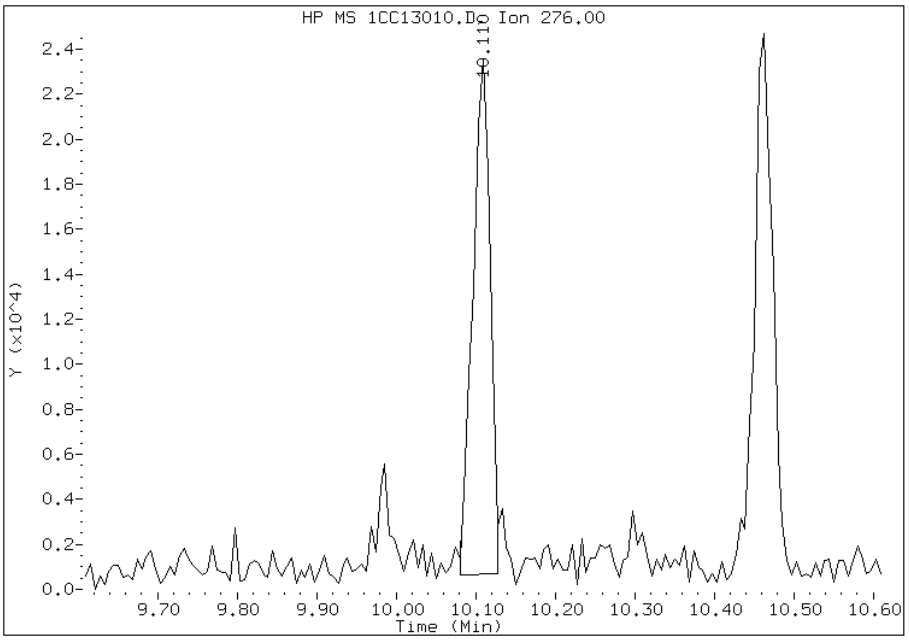
Processing Integration Results

RT: 10.11

Response: 34612

Amount: 1

Conc: 260



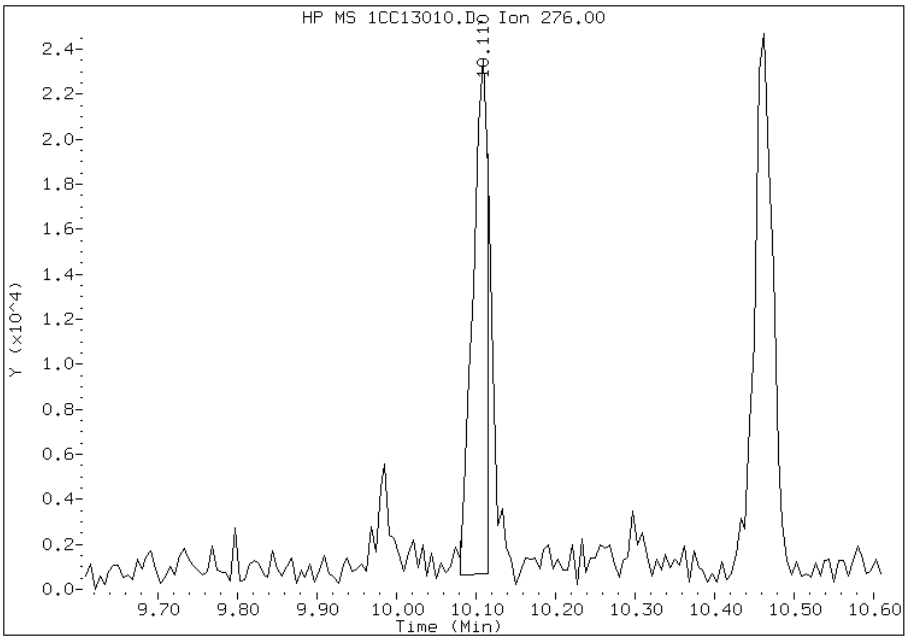
Manual Integration Results

RT: 10.11

Response: 30568

Amount: 1

Conc: 229



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: HP0313A-CS-SP | Lab Sample ID: 680-88065-17

Matrix: Solid | Lab File ID: 1CC13011.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:31

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.26(g) | Date Analyzed: 03/13/2013 14:25

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

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

% Moisture: 27.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135360 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	200	J	220	27
120-12-7	Anthracene	220		46	23
56-55-3	Benzo[a]anthracene	960		44	21
50-32-8	Benzo[a]pyrene	1100		57	28
205-99-2	Benzo[b]fluoranthene	1700		67	33
191-24-2	Benzo[g,h,i]perylene	960		110	24
207-08-9	Benzo[k]fluoranthene	820		44	20
218-01-9	Chrysene	1200		49	25
53-70-3	Dibenz(a,h)anthracene	260		110	22
206-44-0	Fluoranthene	1400		110	22
86-73-7	Fluorene	93	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	810		110	39
90-12-0	1-Methylnaphthalene	360		220	24
91-57-6	2-Methylnaphthalene	510		220	39
91-20-3	Naphthalene	940		220	24
85-01-8	Phenanthrene	1000		44	21
129-00-0	Pyrene	1400		110	20

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\1C031313.b\1CC13011.D
Lab Smp Id: 680-88065-A-17-A Client Smp ID: HP0313A-CS-SP
Inj Date : 13-MAR-2013 14:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-A-17-A
Misc Info : 680-88065-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	28.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.757	3.757	(1.000)	1128569	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	864817	40.0000	
* 10 Phenanthrene-d10	188	5.792	5.798	(1.000)	1510820	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.044)	37499	1.64391	598.4832
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1742727	40.0000	
* 23 Perylene-d12	264	8.933	8.933	(1.000)	1706533	40.0000	
2 Naphthalene	128	3.774	3.768	(1.005)	76355	2.59880	946.1175
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	27238	1.38981	505.9743
4 1-Methylnaphthalene	142	4.263	4.262	(1.135)	17838	0.99936	363.8271
5 Acenaphthylene	152	4.763	4.757	(0.983)	18938	0.54315	197.7407
9 Fluorene	166	5.186	5.186	(1.070)	6981	0.25471	92.7295(Q)
11 Phenanthrene	178	5.810	5.809	(1.003)	122015	2.79298	1016.8140
12 Anthracene	178	5.845	5.845	(1.009)	25462	0.59595	216.9625
13 Carbazole	167	5.951	5.951	(1.027)	17607	0.46359	168.7756

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.645	6.651	(1.147)	189362	3.95809	1440.9837
16 Pyrene	202	6.815	6.815	(0.881)	182104	3.88835	1415.5911
17 Benzo(a)anthracene	228	7.727	7.733	(0.998)	132927	2.64276	962.1247
19 Chrysene	228	7.757	7.762	(1.002)	167312	3.32389	1210.0942
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.960)	209174	4.69020	1707.5160(M)
21 Benzo(k)fluoranthene	252	8.592	8.603	(0.962)	102597	2.24252	816.4133(MH)
22 Benzo(a)pyrene	252	8.874	8.880	(0.993)	130041	3.00192	1092.8779
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.115	(1.132)	90915	2.23098	812.2093(M)
25 Dibenzo(a,h)anthracene	278	10.121	10.133	(1.133)	28482	0.71454	260.1367
26 Benzo(g,h,i)perylene	276	10.462	10.474	(1.171)	112154	2.63092	957.8127

QC Flag Legend

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

Data File: 1CC13011.D

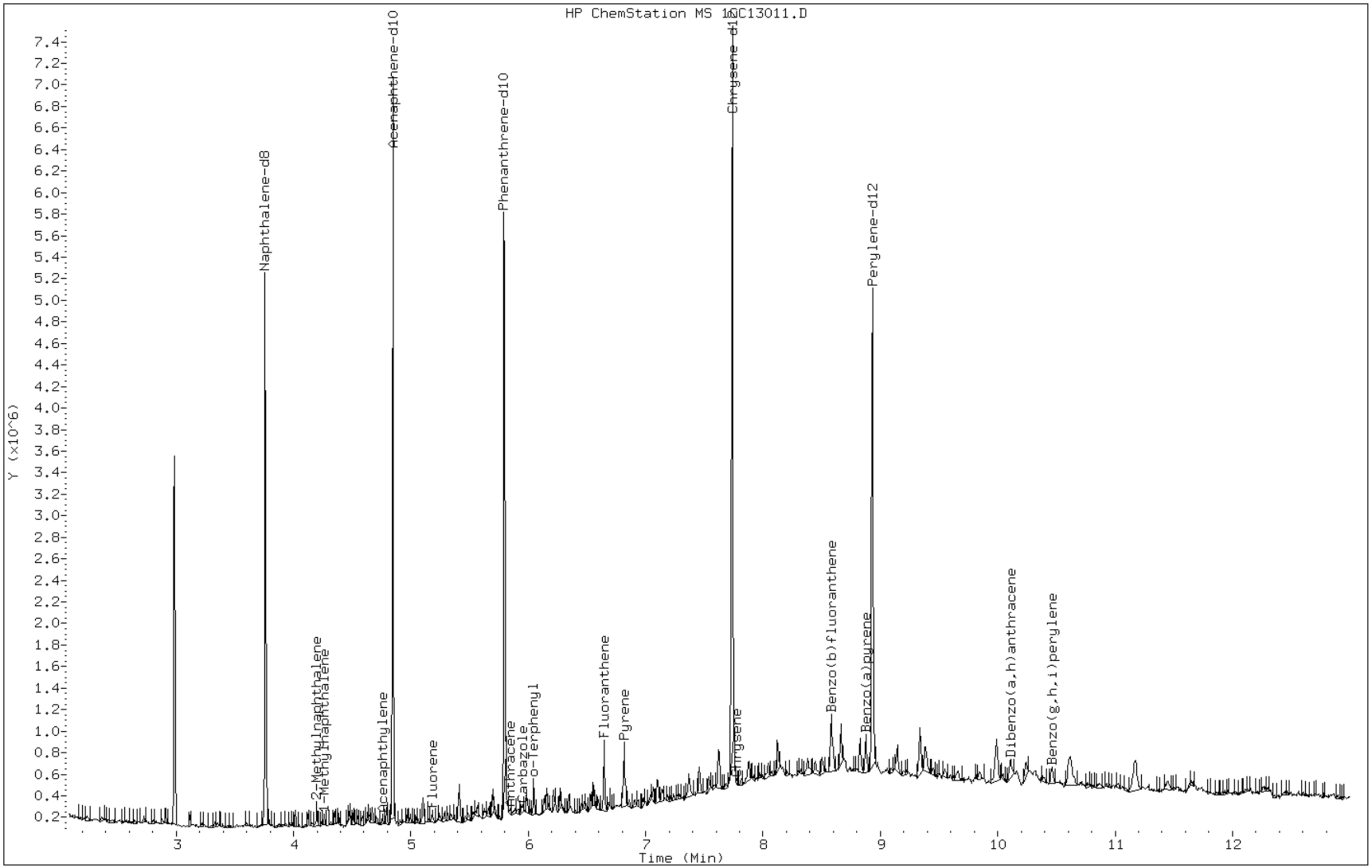
Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A

Operator: SCC



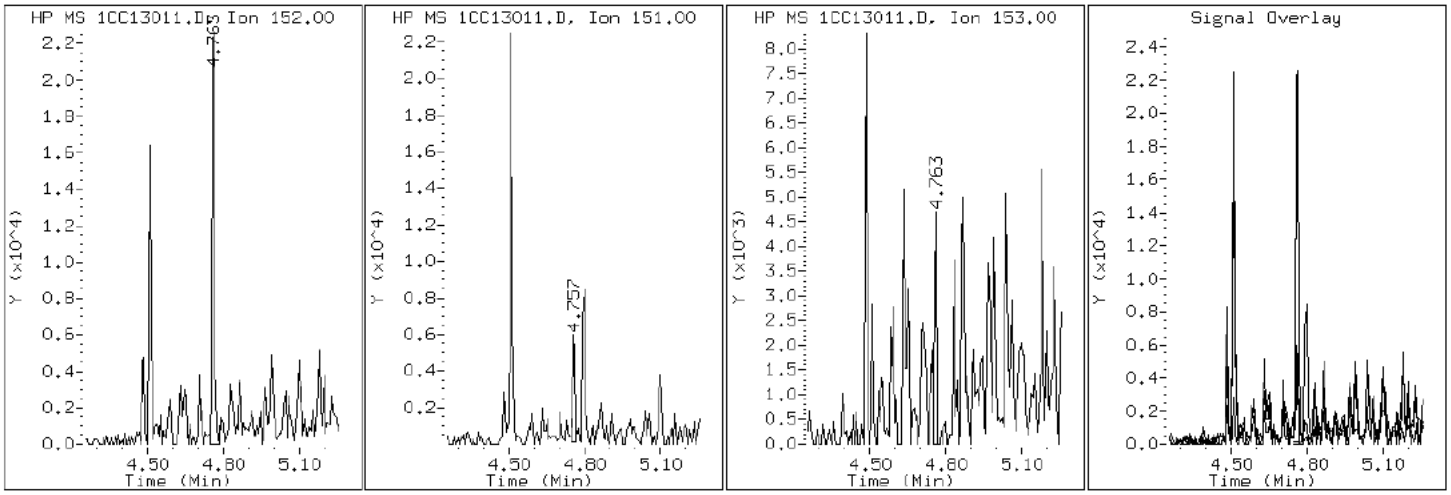
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

5 Acenaphthylene



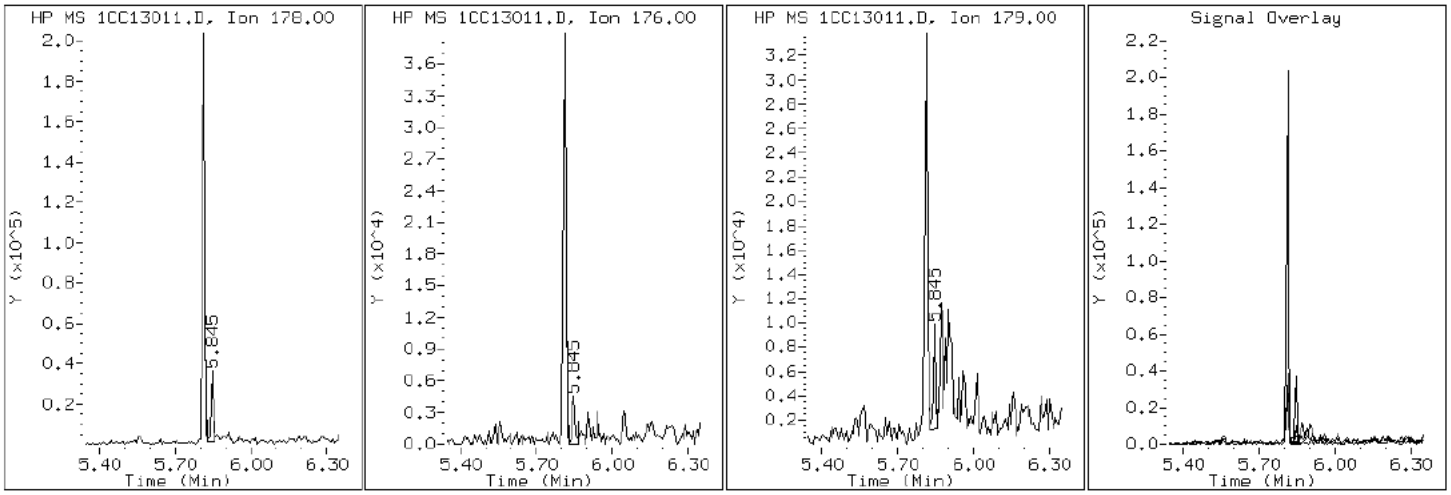
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

12 Anthracene



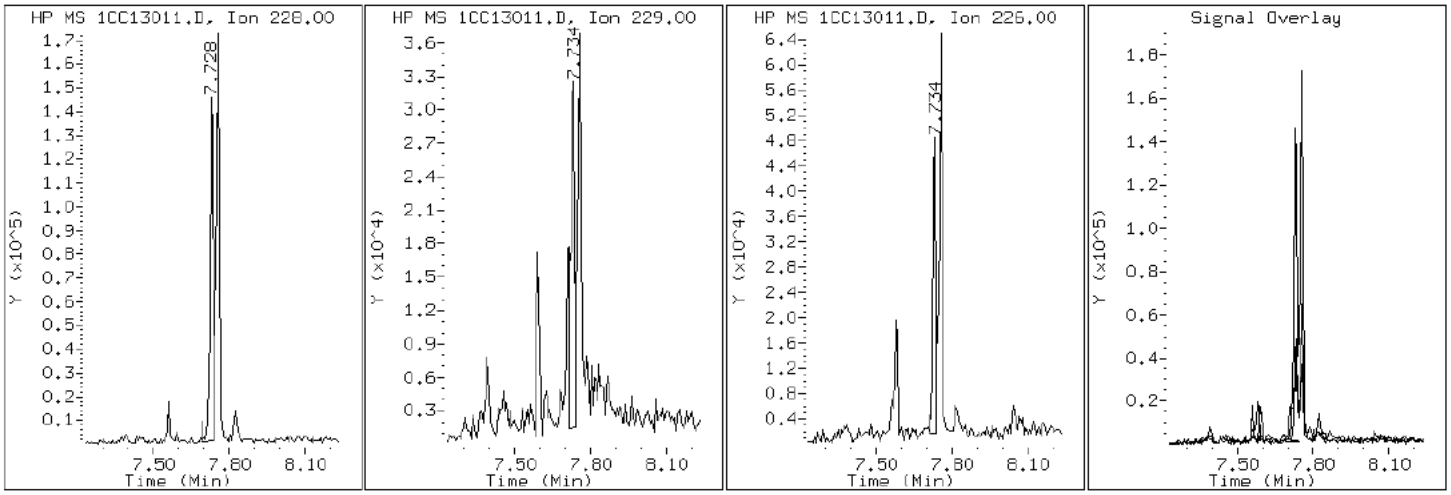
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

17 Benzo(a)anthracene



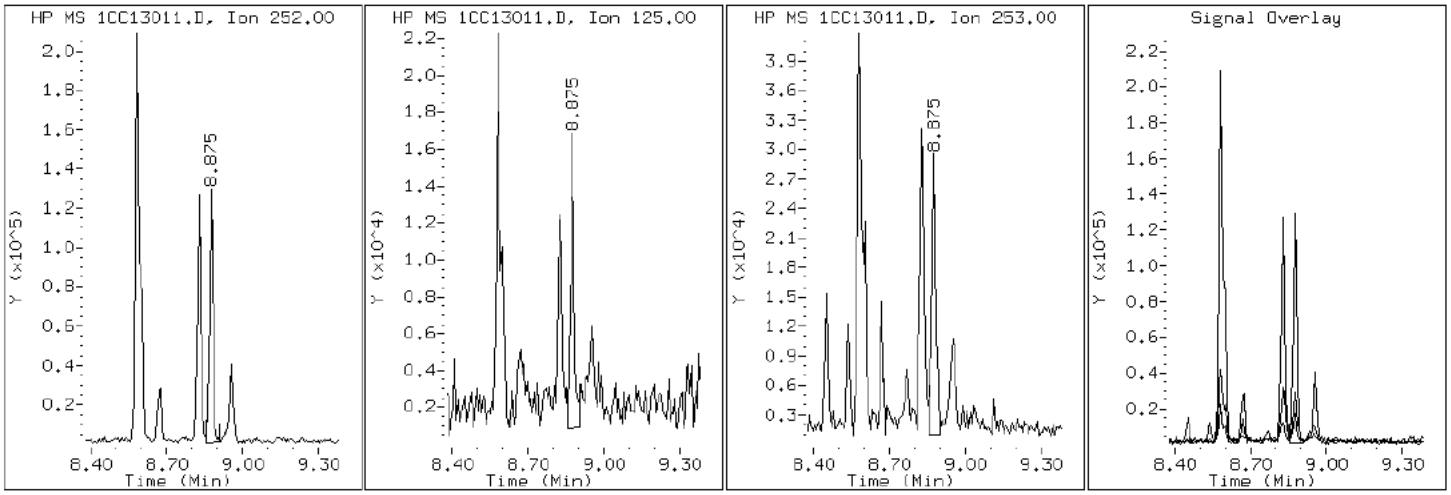
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

22 Benzo(a)pyrene



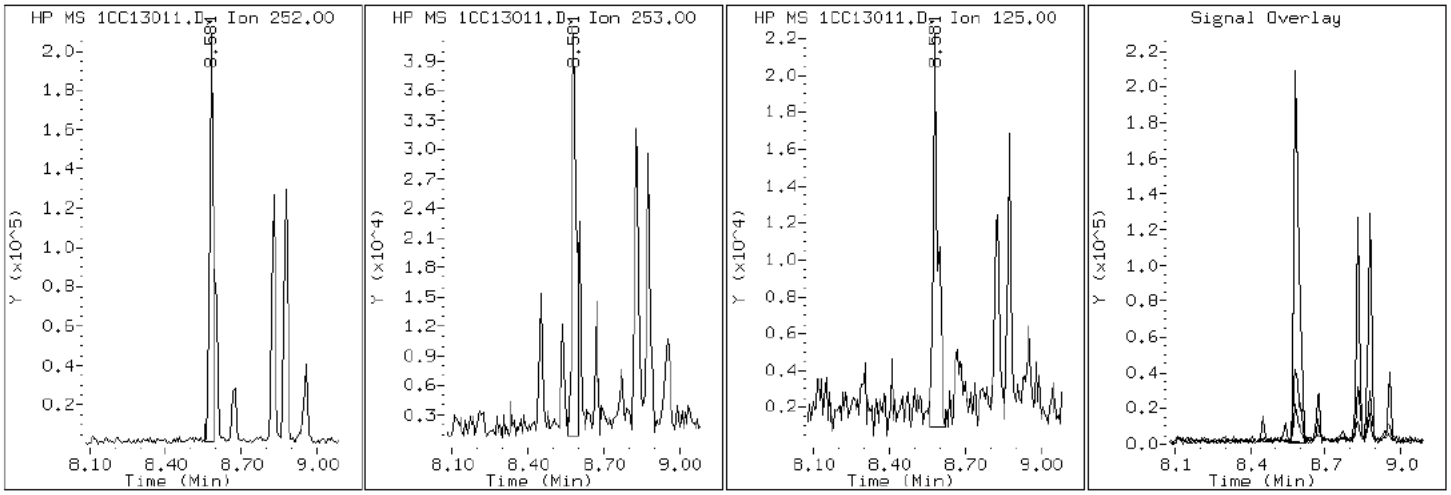
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

20 Benzo(b)fluoranthene



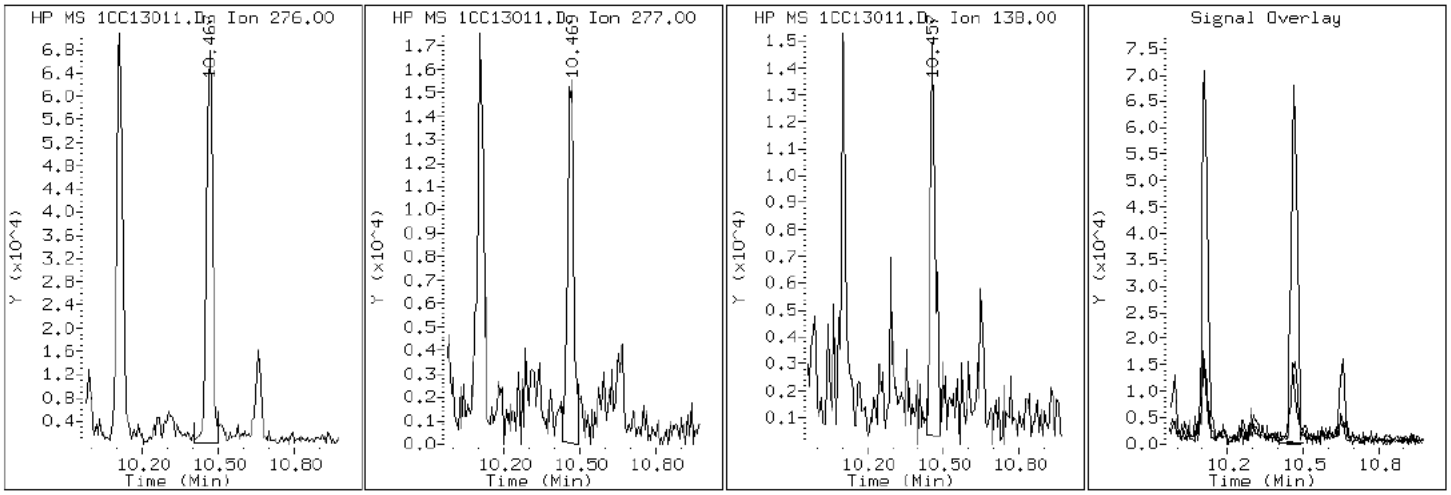
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

26 Benzo(g,h,i)perylene



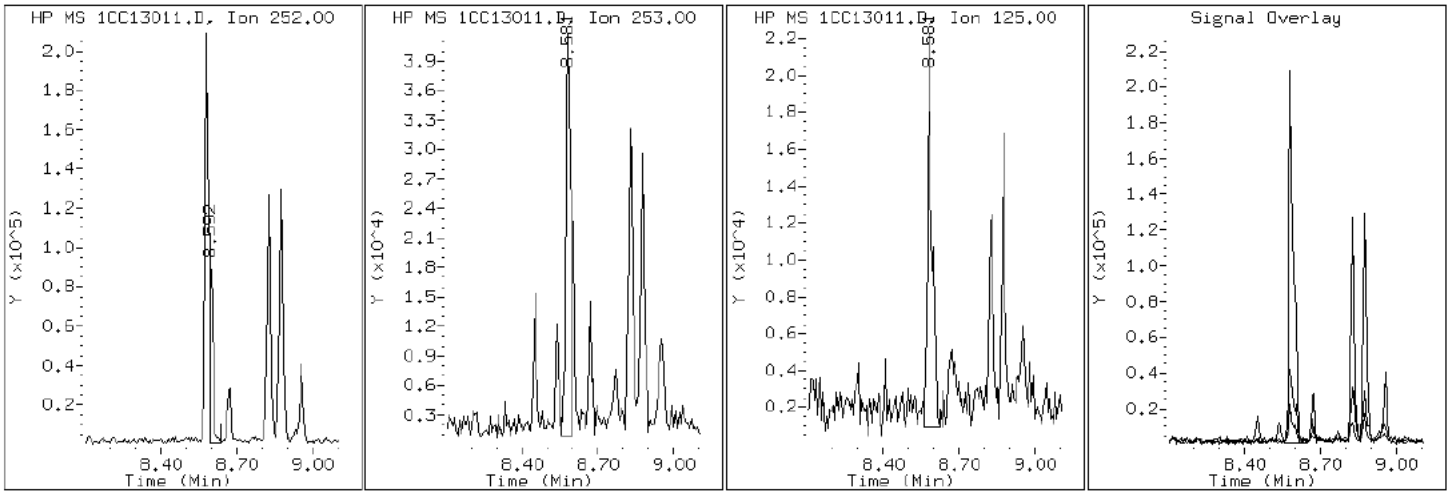
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

21 Benzo(k)fluoranthene



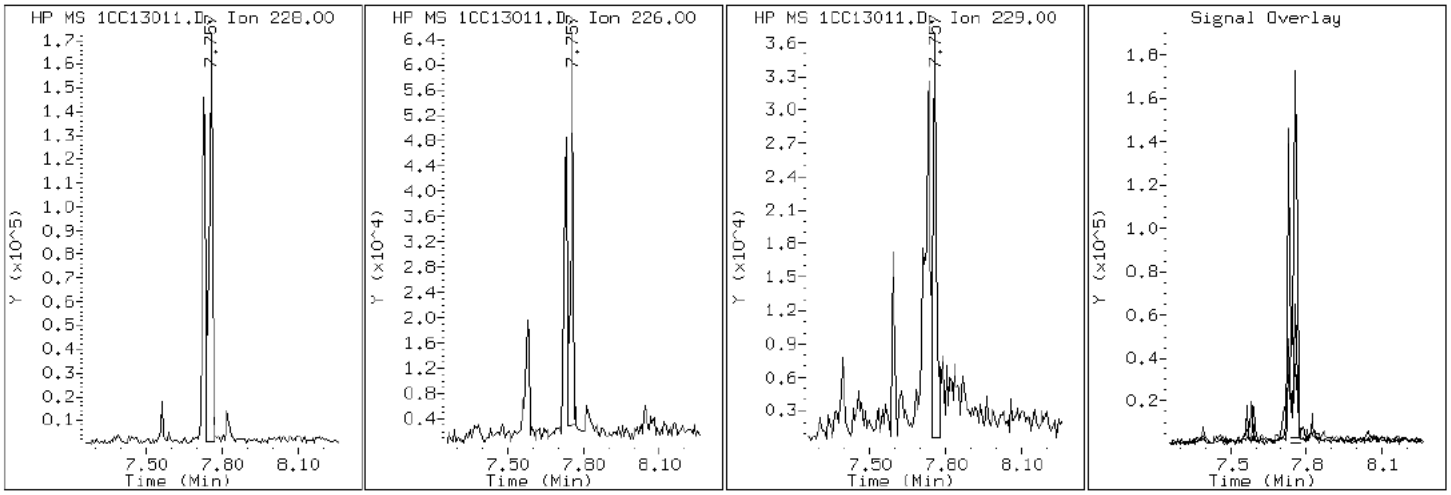
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

19 Chrysene



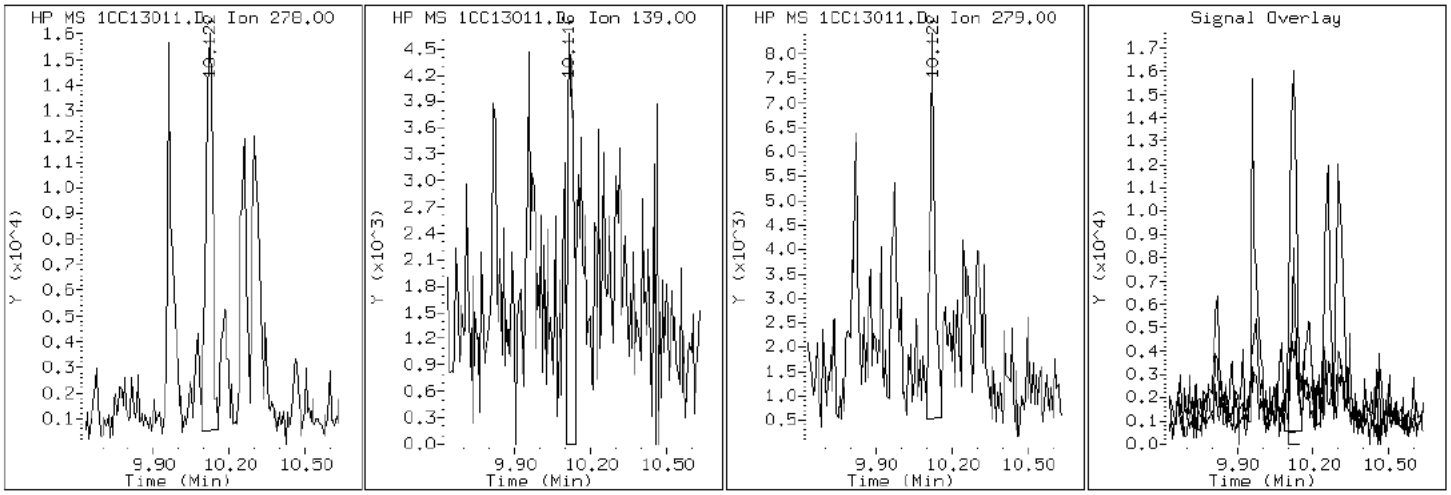
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

25 Dibenzo(a,h)anthracene



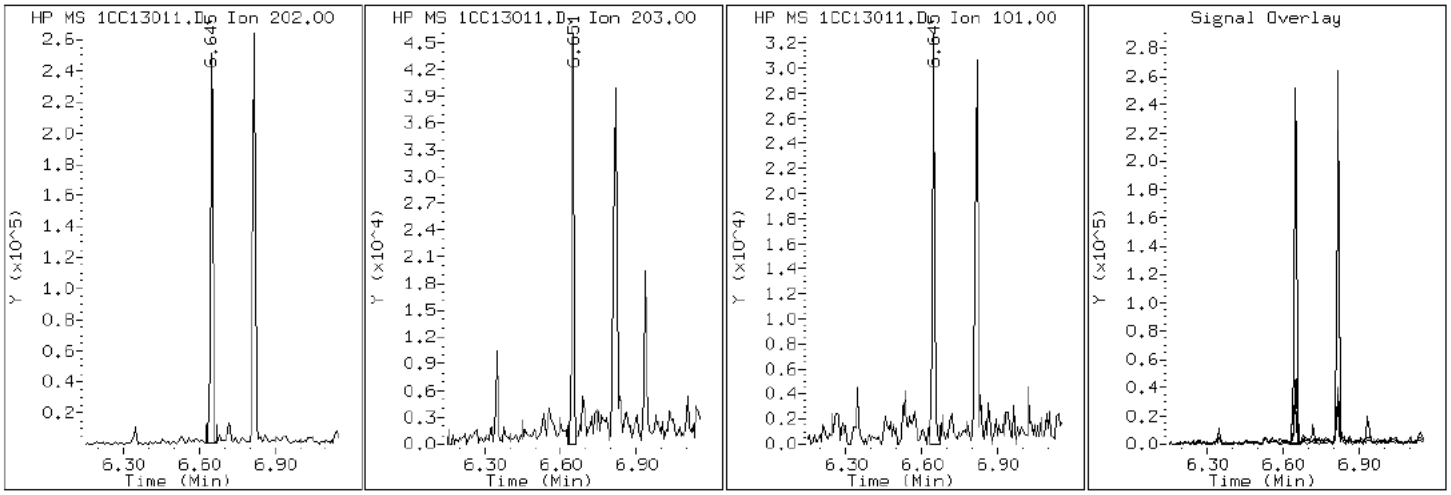
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

15 Fluoranthene



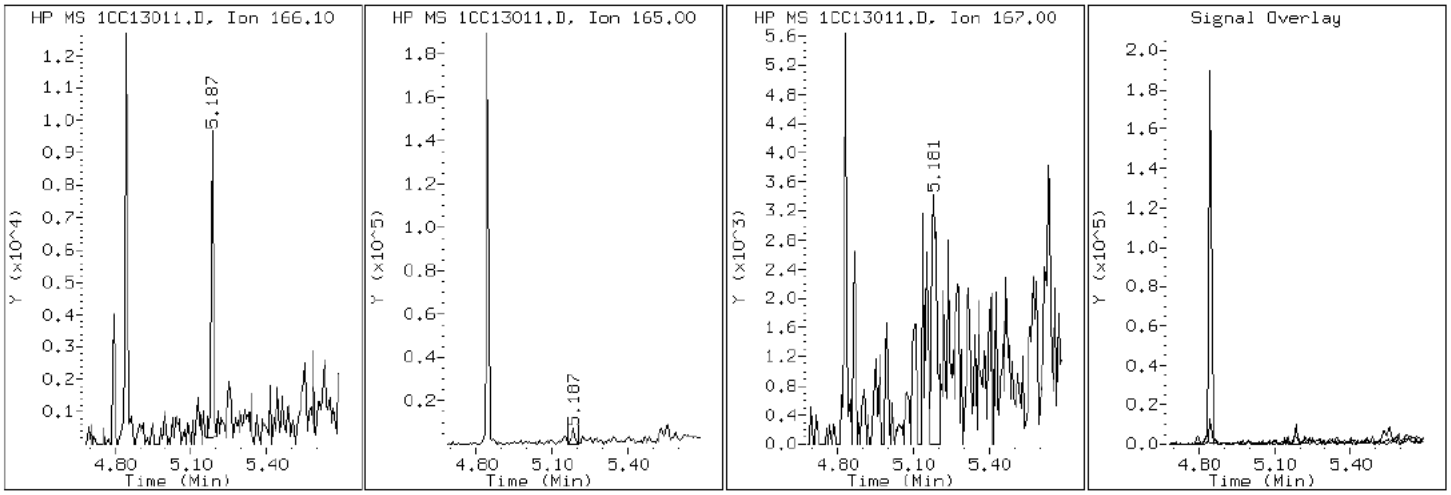
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

9 Fluorene



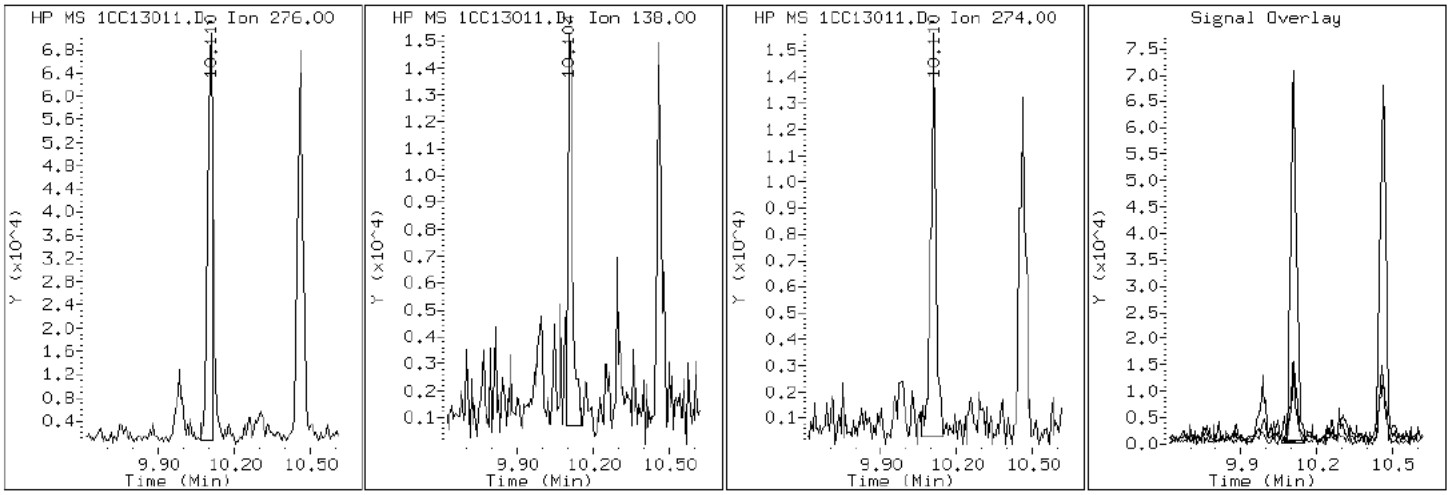
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

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



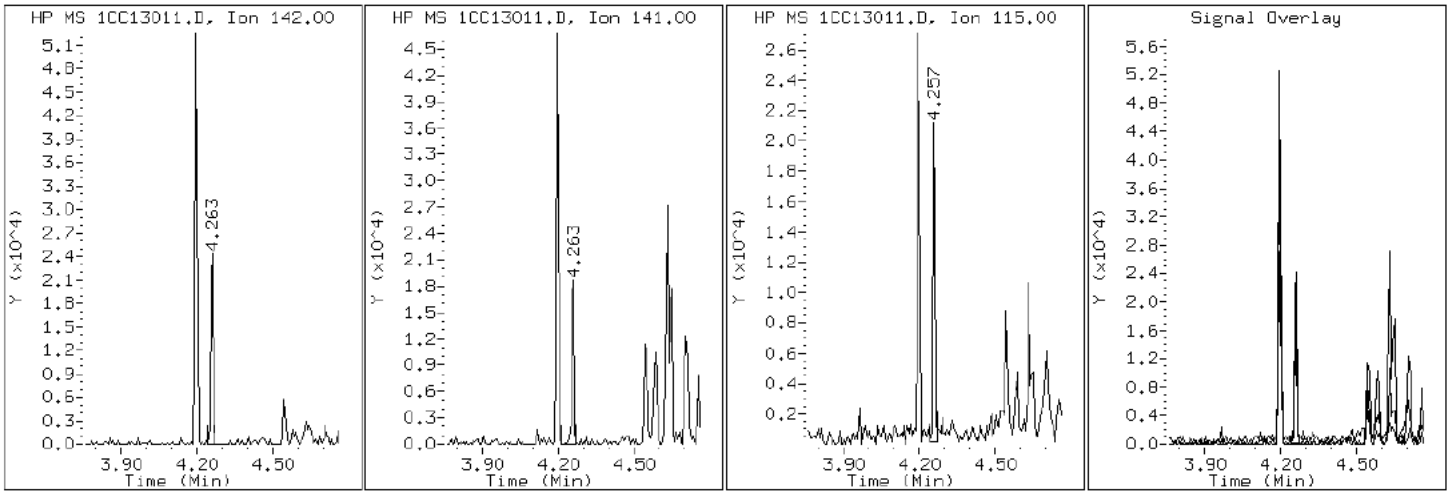
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

4 1-Methylnaphthalene



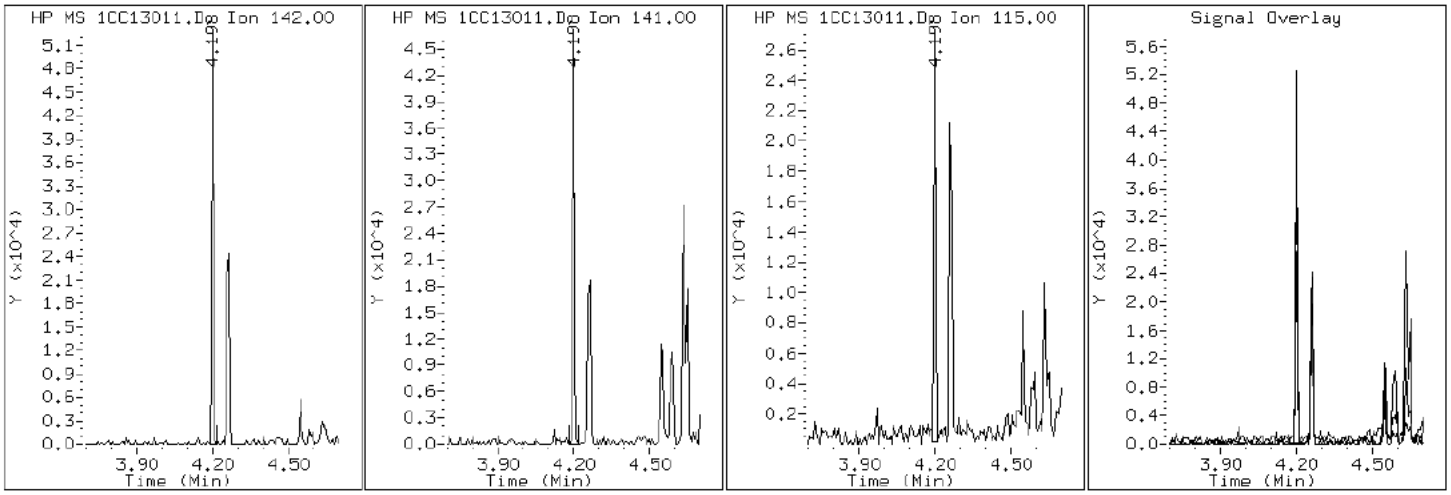
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

3 2-Methylnaphthalene



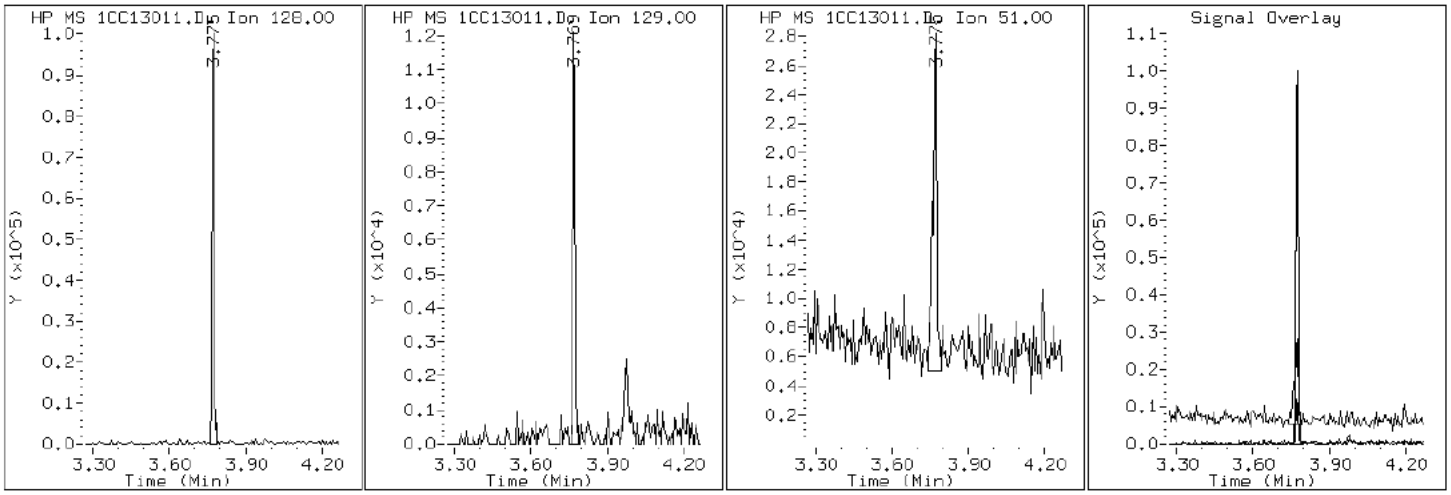
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

2 Naphthalene



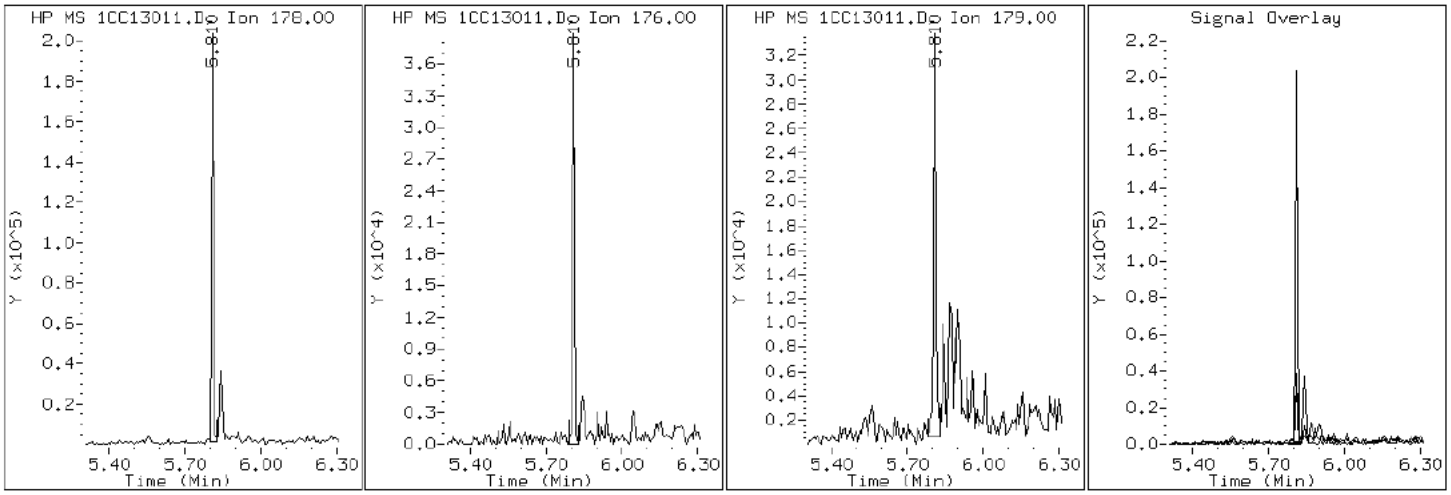
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

11 Phenanthrene



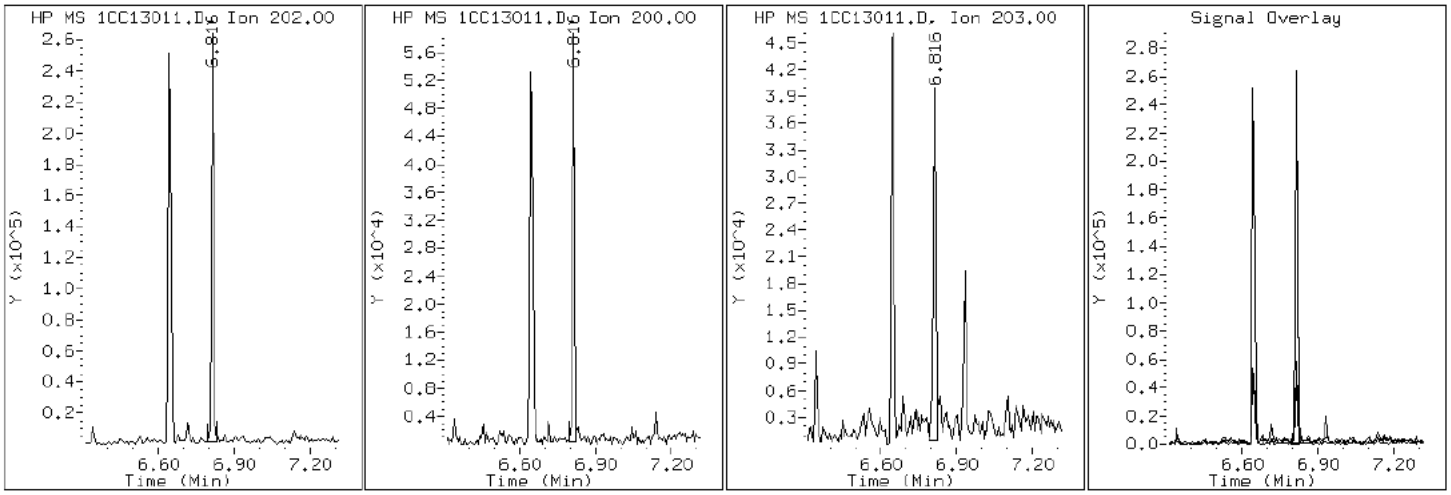
Data File: 1CC13011.D

Date: 13-MAR-2013 14:25

Client ID: HP0313A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-17-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC13011.D
Inj. Date and Time: 13-MAR-2013 14:25
Instrument ID: BSMC5973.i
Client ID: HP0313A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

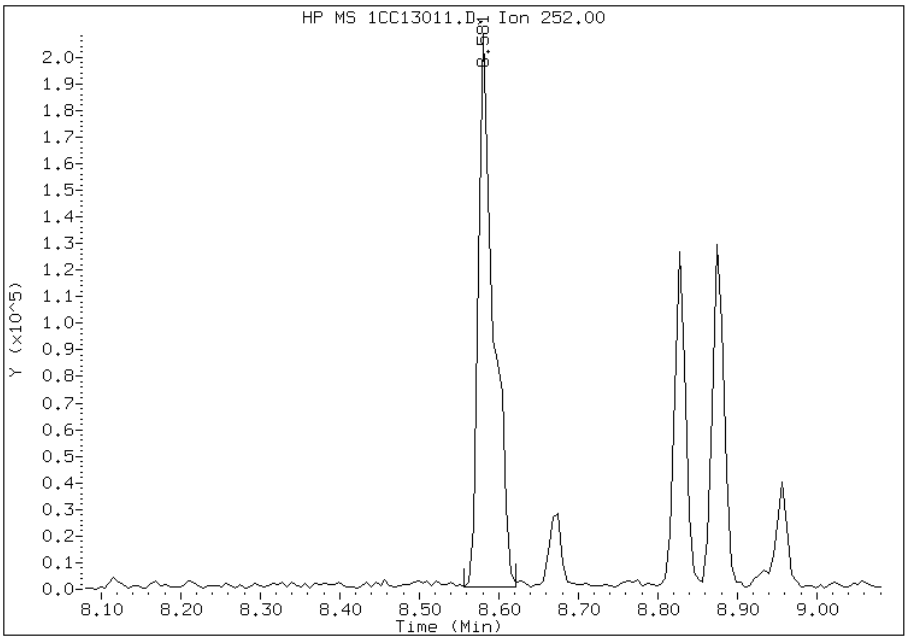
Processing Integration Results

RT: 8.58

Response: 277327

Amount: 6

Conc: 2264



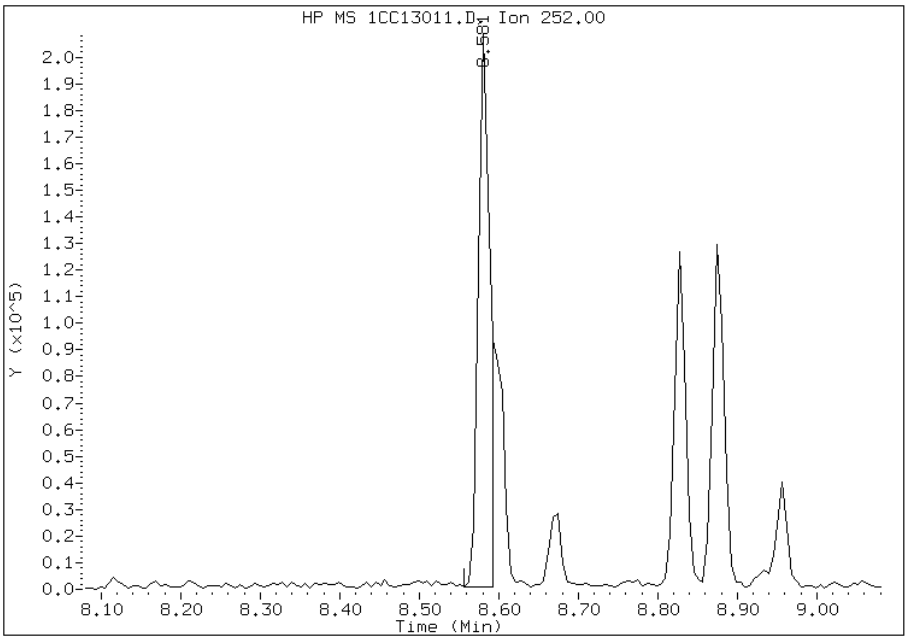
Manual Integration Results

RT: 8.58

Response: 209174

Amount: 5

Conc: 1708



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC13011.D
Inj. Date and Time: 13-MAR-2013 14:25
Instrument ID: BSMC5973.i
Client ID: HP0313A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

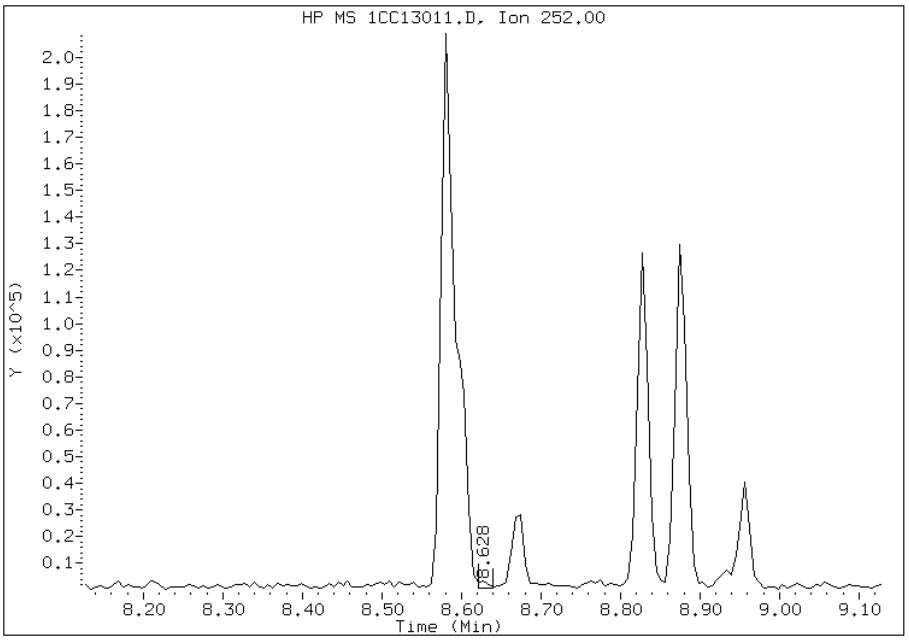
Processing Integration Results

RT: 8.63

Response: 2169

Amount: 0

Conc: 17



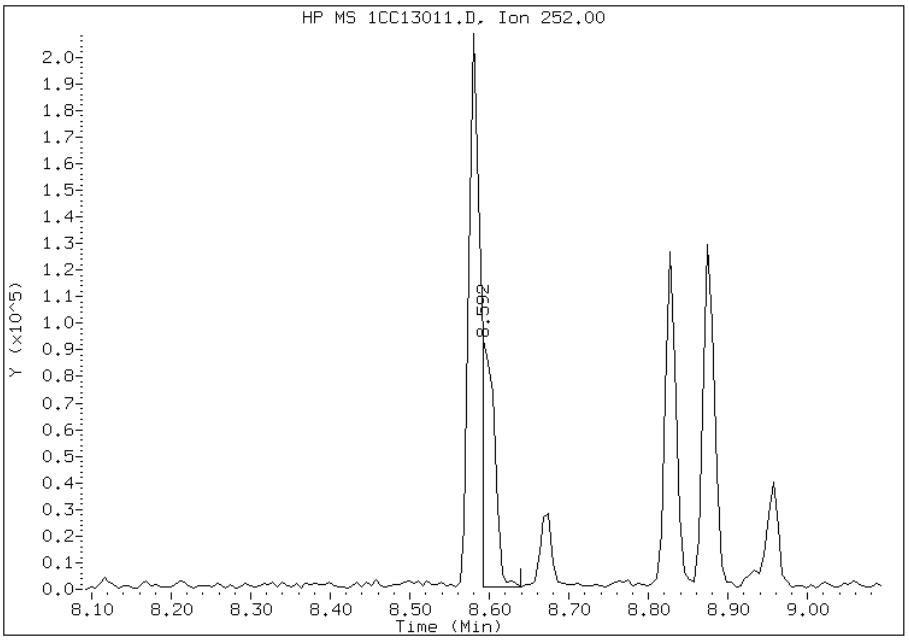
Manual Integration Results

RT: 8.59

Response: 102597

Amount: 2

Conc: 816



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC13011.D
Inj. Date and Time: 13-MAR-2013 14:25
Instrument ID: BSMC5973.i
Client ID: HP0313A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

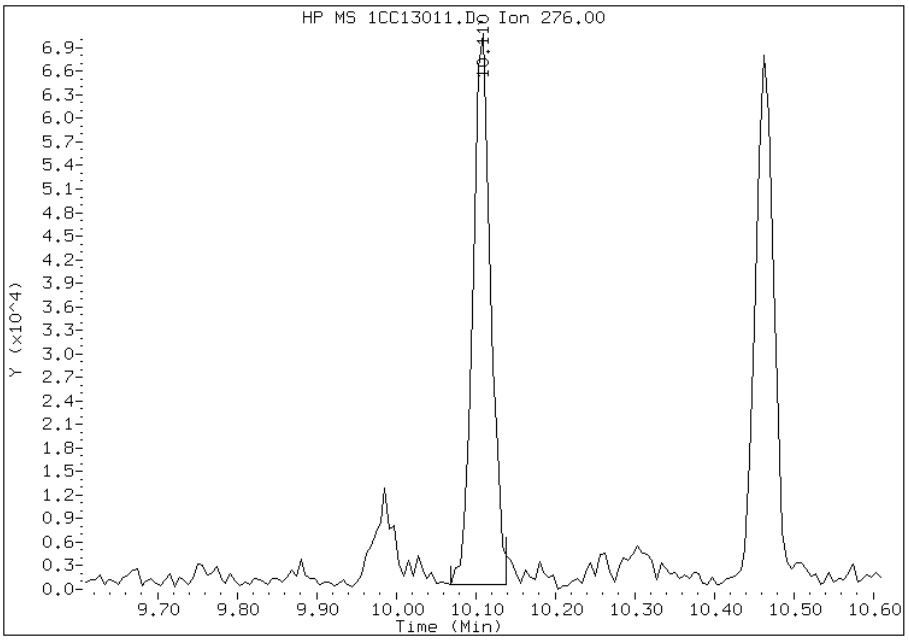
Processing Integration Results

RT: 10.11

Response: 109978

Amount: 3

Conc: 983



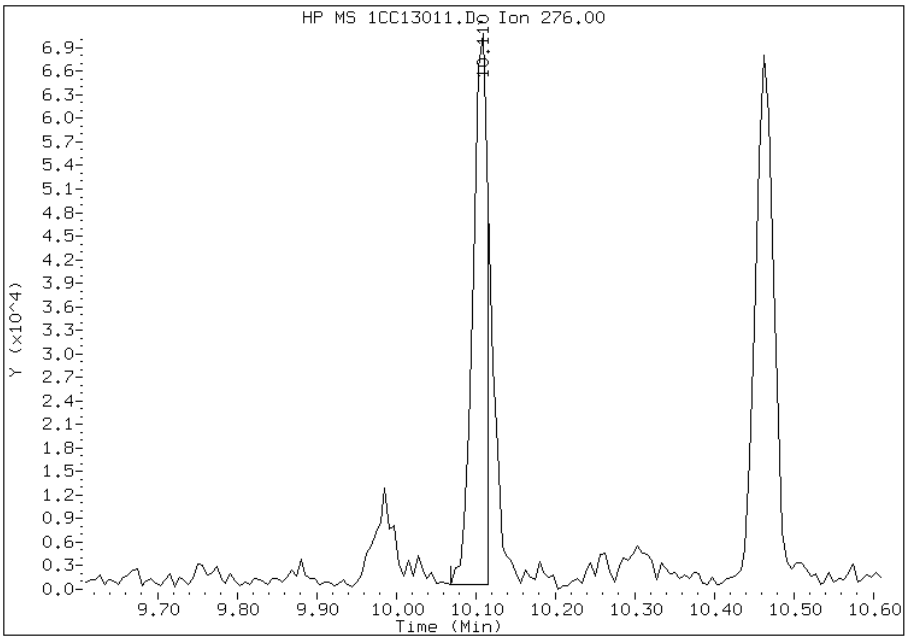
Manual Integration Results

RT: 10.11

Response: 90915

Amount: 2

Conc: 812



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 14:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: HP0313B-CS-SP | Lab Sample ID: 680-88065-18

Matrix: Solid | Lab File ID: 1CC13012.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:42

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 14.96(g) | Date Analyzed: 03/13/2013 14:44

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

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

% Moisture: 58.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135360 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	240	U	240	48
208-96-8	Acenaphthylene	96	U	96	12
120-12-7	Anthracene	11	J	20	10
56-55-3	Benzo[a]anthracene	37		19	9.3
50-32-8	Benzo[a]pyrene	45		25	12
205-99-2	Benzo[b]fluoranthene	67		29	15
191-24-2	Benzo[g,h,i]perylene	57		48	11
207-08-9	Benzo[k]fluoranthene	19		19	8.6
218-01-9	Chrysene	61		22	11
53-70-3	Dibenz(a,h)anthracene	11	J	48	9.8
206-44-0	Fluoranthene	81		48	9.6
86-73-7	Fluorene	48	U	48	9.8
193-39-5	Indeno[1,2,3-cd]pyrene	30	J	48	17
90-12-0	1-Methylnaphthalene	41	J	96	11
91-57-6	2-Methylnaphthalene	54	J	96	17
91-20-3	Naphthalene	130		96	11
85-01-8	Phenanthrene	83		19	9.3
129-00-0	Pyrene	52		48	8.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	38		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13012.D
Lab Smp Id: 680-88065-A-18-A Client Smp ID: HP0313B-CS-SP
Inj Date : 13-MAR-2013 14:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-A-18-A
Misc Info : 680-88065-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.757	3.757	(1.000)	1176789	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	901834	40.0000	
* 10 Phenanthrene-d10	188	5.792	5.798	(1.000)	1661941	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.044)	94605	3.77025	252.0222
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	2982301	40.0000	
* 23 Perylene-d12	264	8.933	8.933	(1.000)	1850255	40.0000	
2 Naphthalene	128	3.775	3.768	(1.005)	25304	0.82595	55.2105
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	6864	0.33588	22.4520
4 1-Methylnaphthalene	142	4.263	4.262	(1.135)	4770	0.25629	17.1313
11 Phenanthrene	178	5.810	5.809	(1.003)	24959	0.51937	34.7174
12 Anthracene	178	5.845	5.845	(1.009)	3237	0.06887	4.6039
13 Carbazole	167	5.951	5.951	(1.027)	3708	0.08875	5.9327(Q)
15 Fluoranthene	202	6.651	6.651	(1.148)	26863	0.51044	34.1203
16 Pyrene	202	6.815	6.815	(0.881)	26185	0.32672	21.8395

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.733	7.733	(0.999)	19934	0.23159	15.4805
19 Chrysene	228	7.751	7.762	(1.002)	32976	0.38282	25.5895
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.960)	20378	0.42143	28.1706(M)
21 Benzo(k)fluoranthene	252	8.604	8.603	(0.963)	6006	0.12108	8.0935(QM)
22 Benzo(a)pyrene	252	8.880	8.880	(0.994)	13147	0.27992	18.7109(Q)
24 Indeno(1,2,3-cd)pyrene	276	10.115	10.115	(1.132)	8249	0.18670	12.4799(M)
25 Dibenzo(a,h)anthracene	278	10.121	10.133	(1.133)	2988	0.06914	4.6215(Q)
26 Benzo(g,h,i)perylene	276	10.468	10.474	(1.172)	16557	0.35823	23.9456

QC Flag Legend

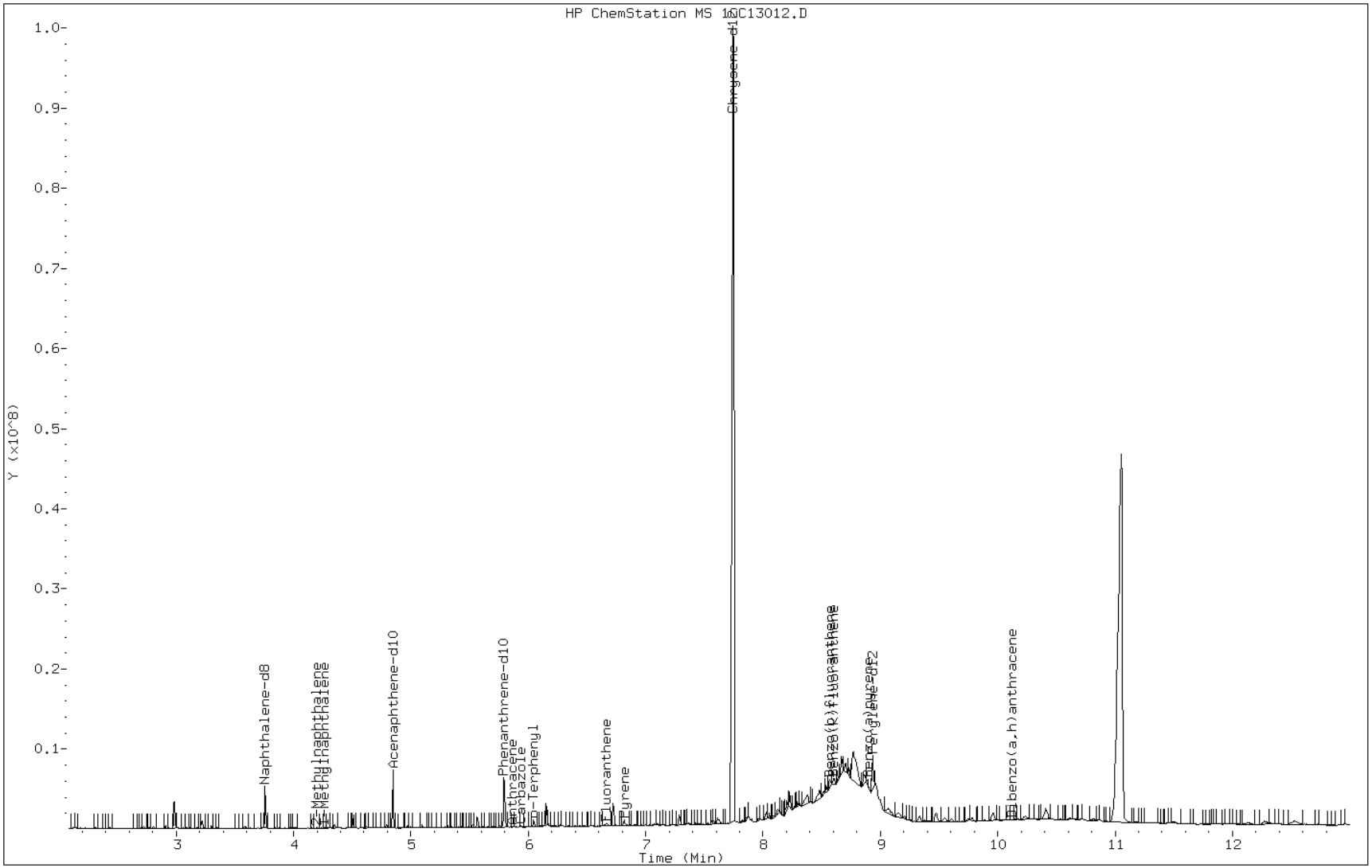
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC



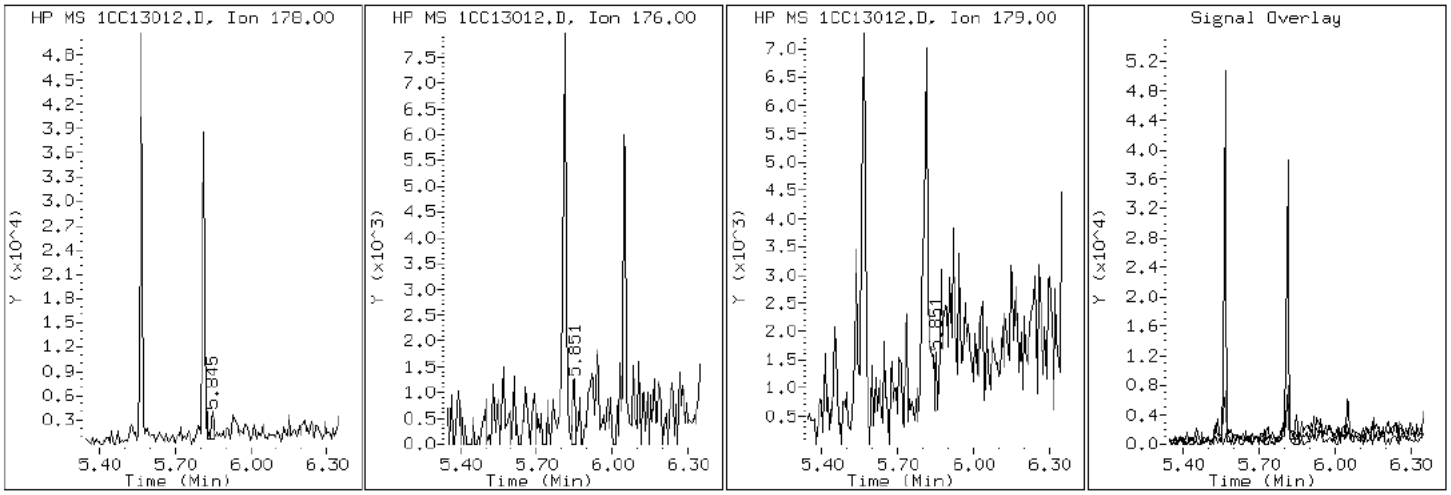
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

12 Anthracene



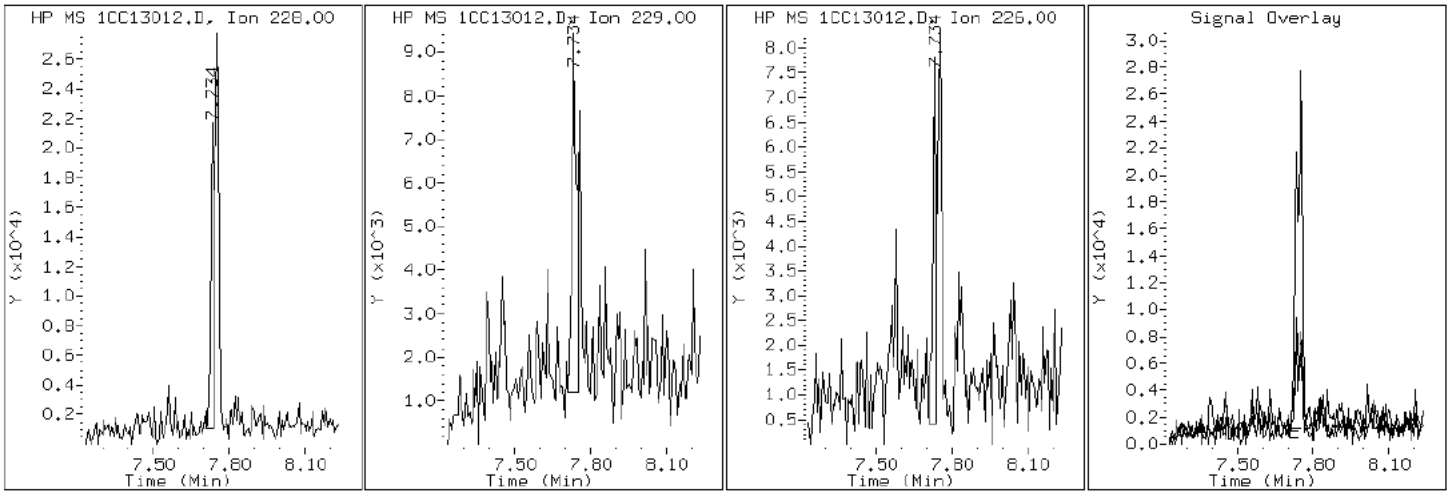
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

17 Benzo(a)anthracene



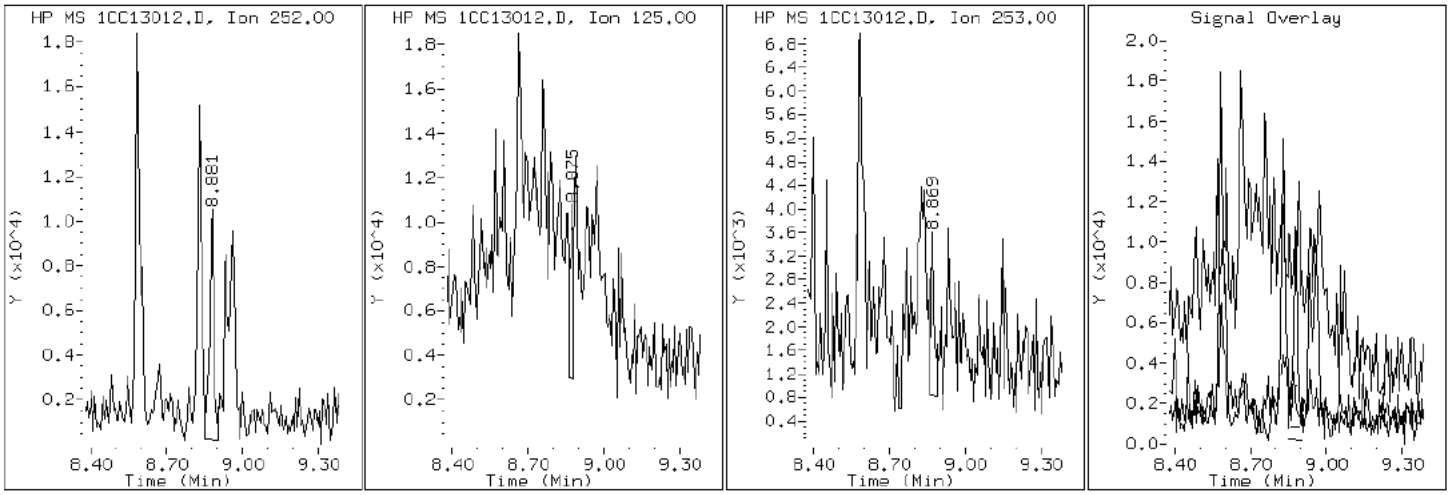
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

22 Benzo(a)pyrene



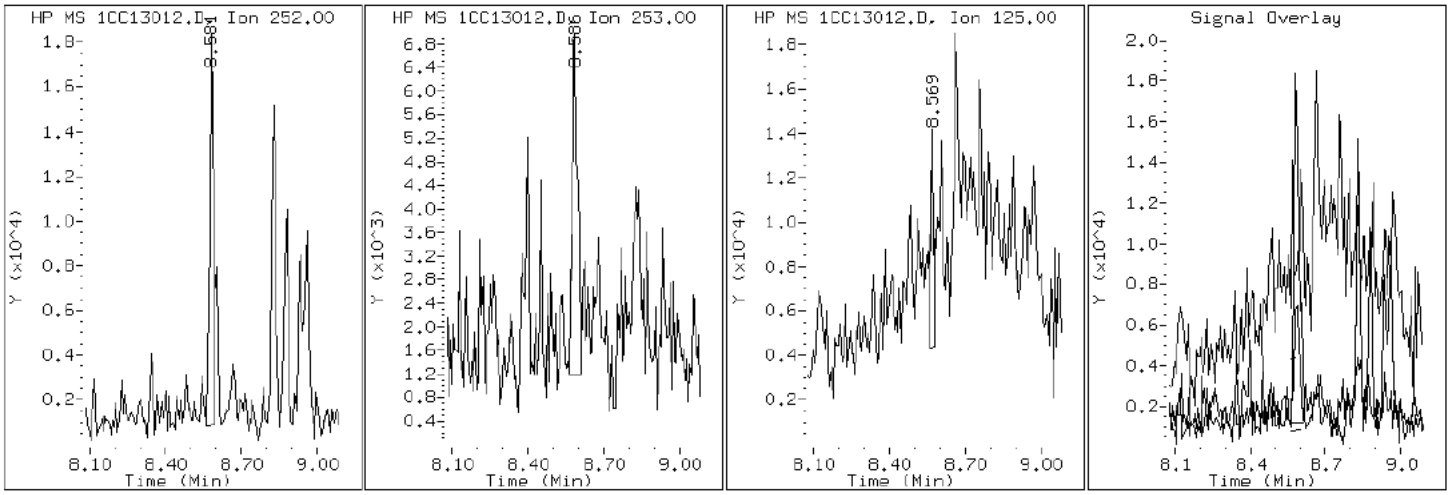
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

20 Benzo(b)fluoranthene



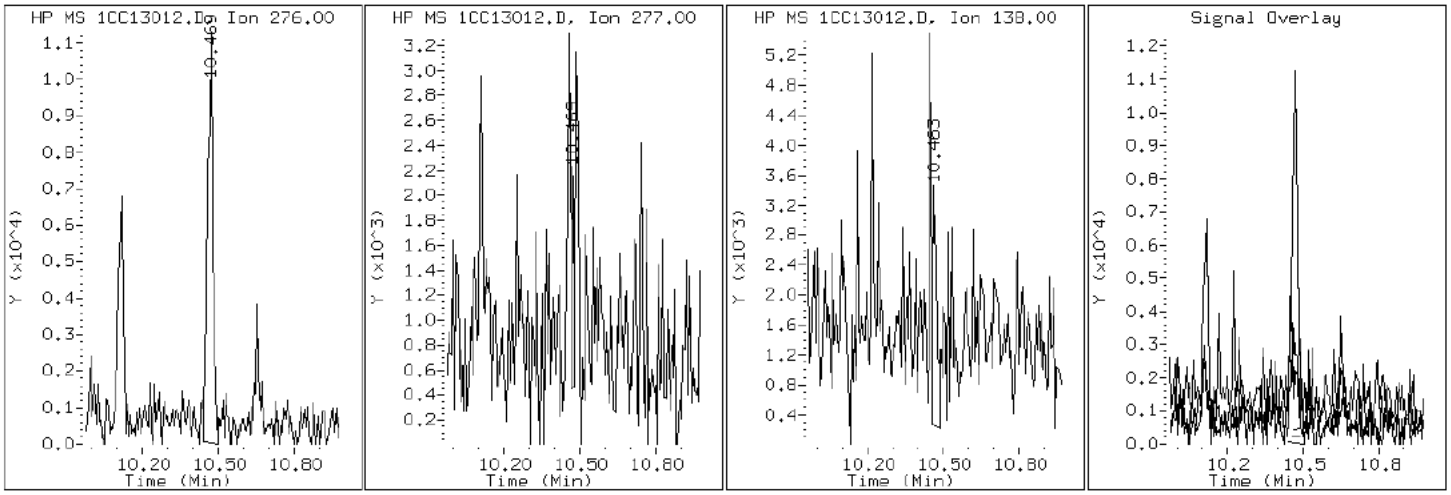
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

26 Benzo(g,h,i)perylene



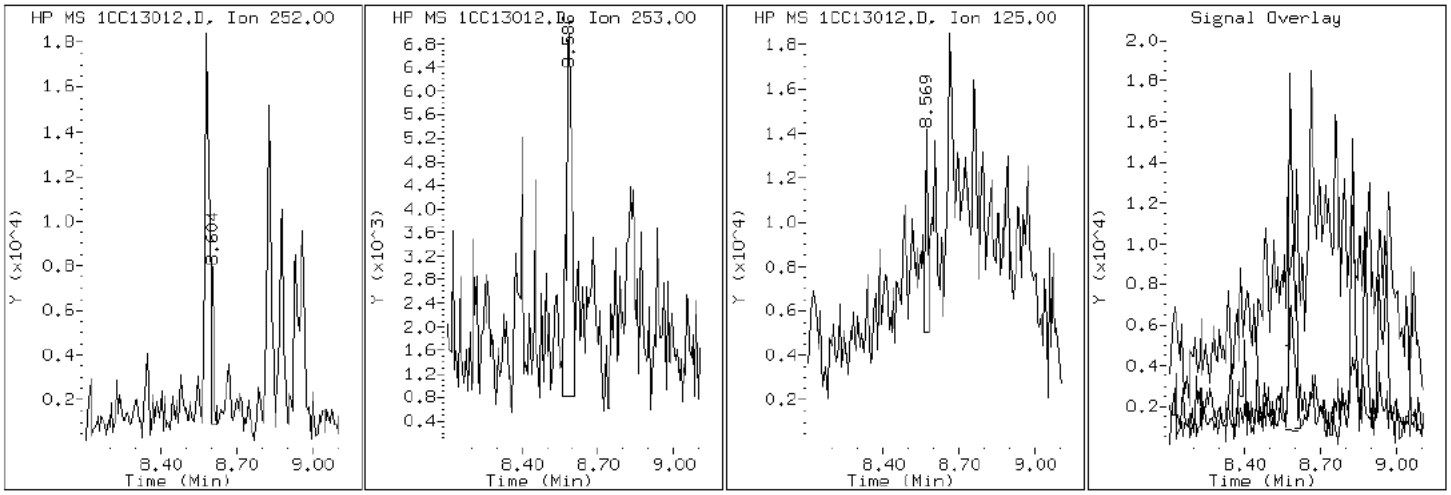
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

21 Benzo(k)fluoranthene



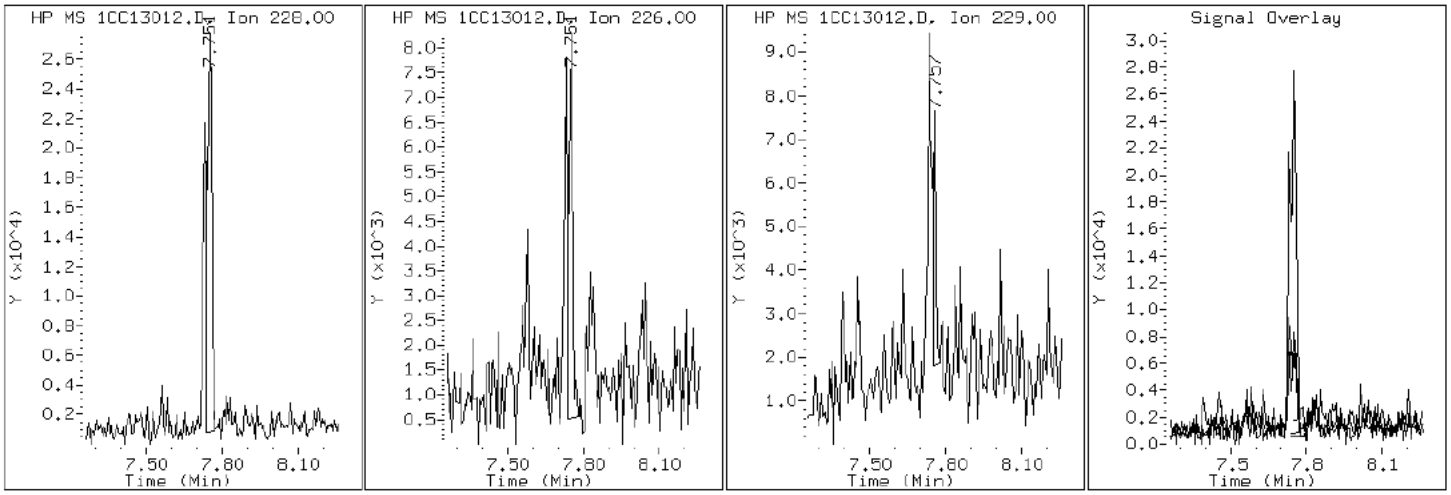
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

19 Chrysene



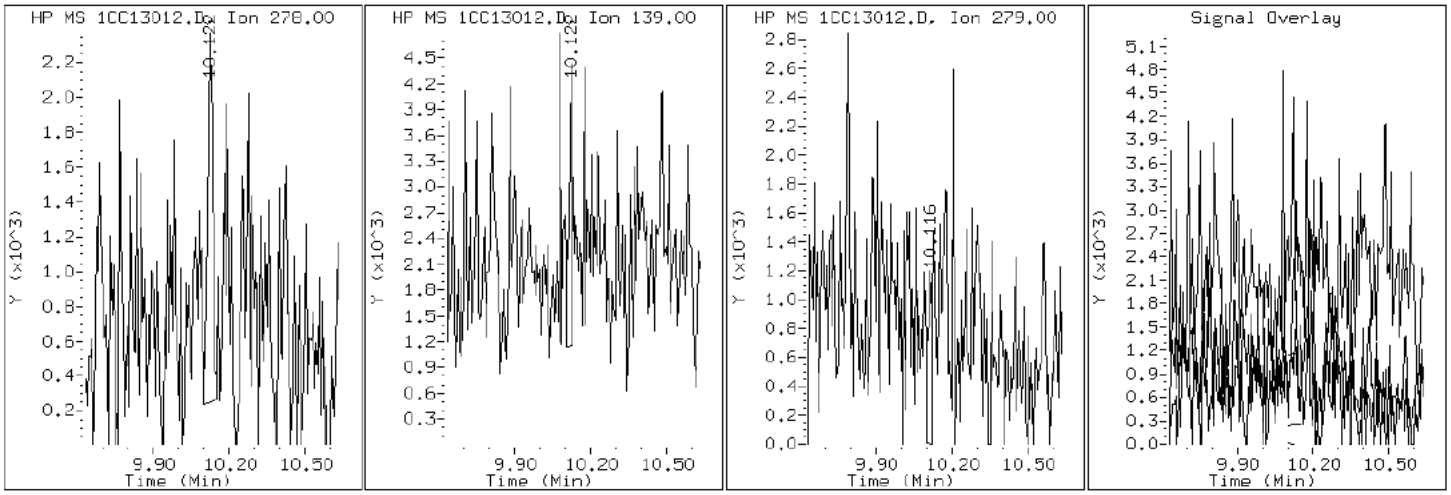
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

25 Dibenzo(a,h)anthracene



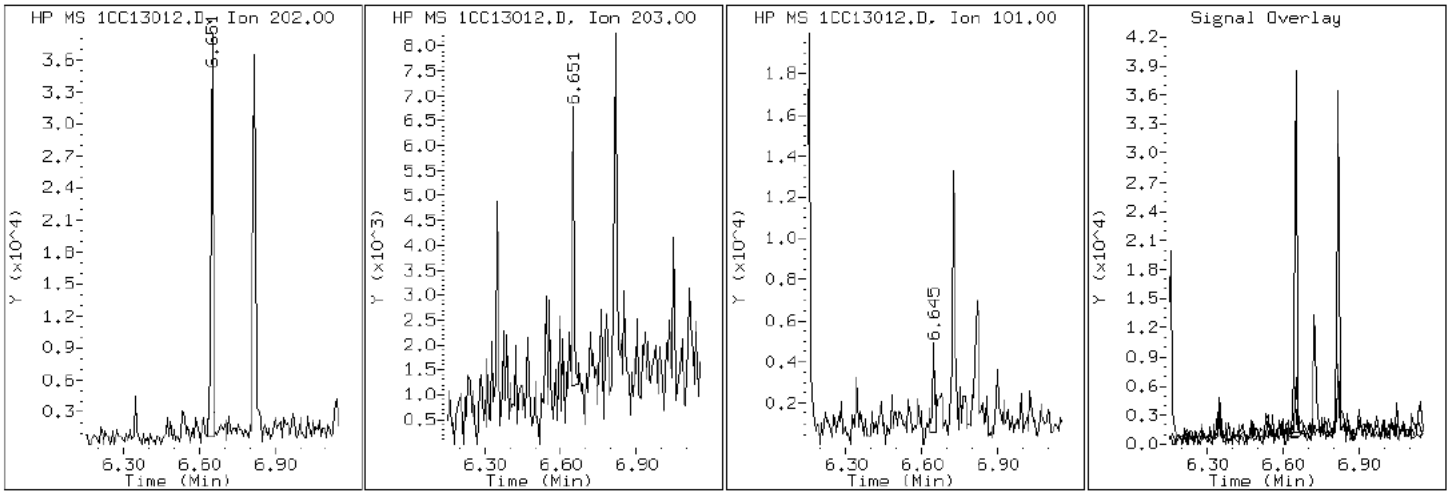
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

15 Fluoranthene



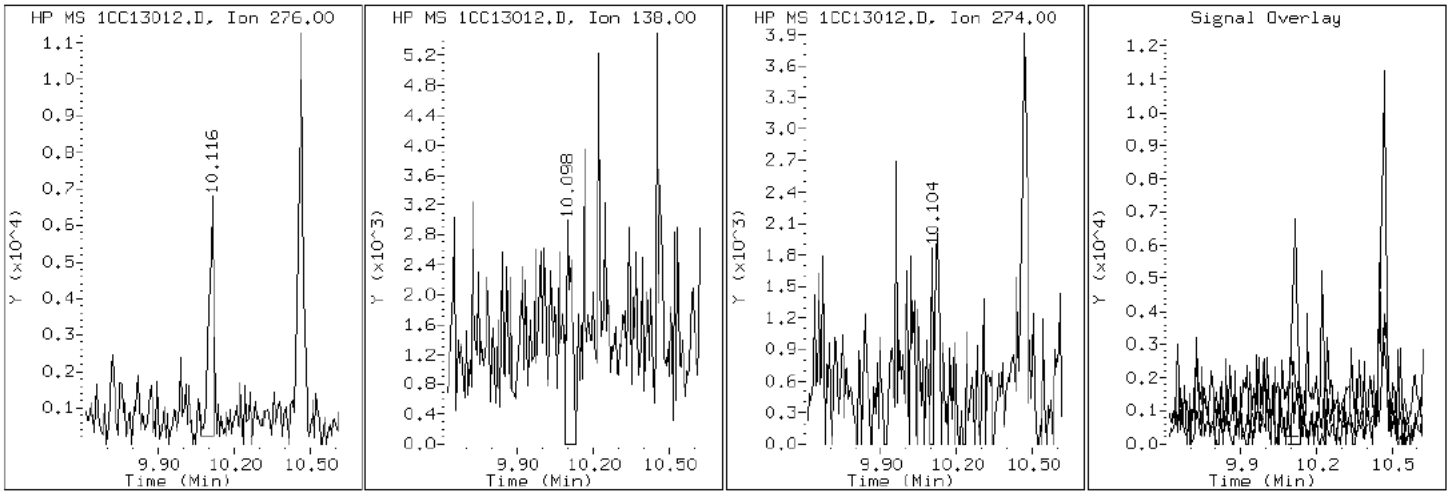
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

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



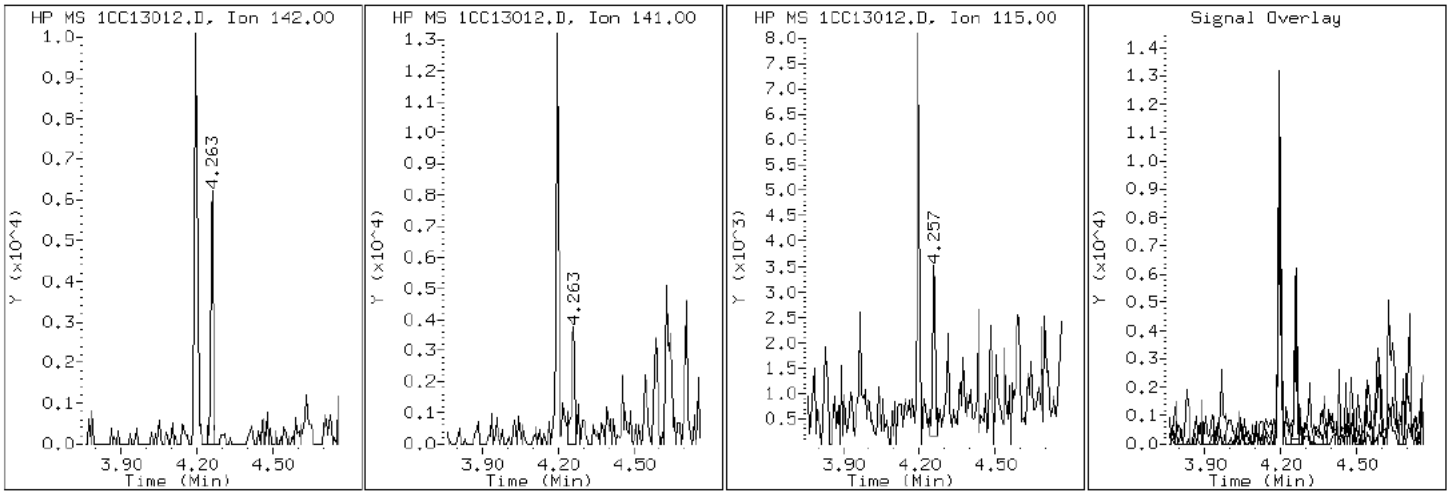
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

4 1-Methylnaphthalene



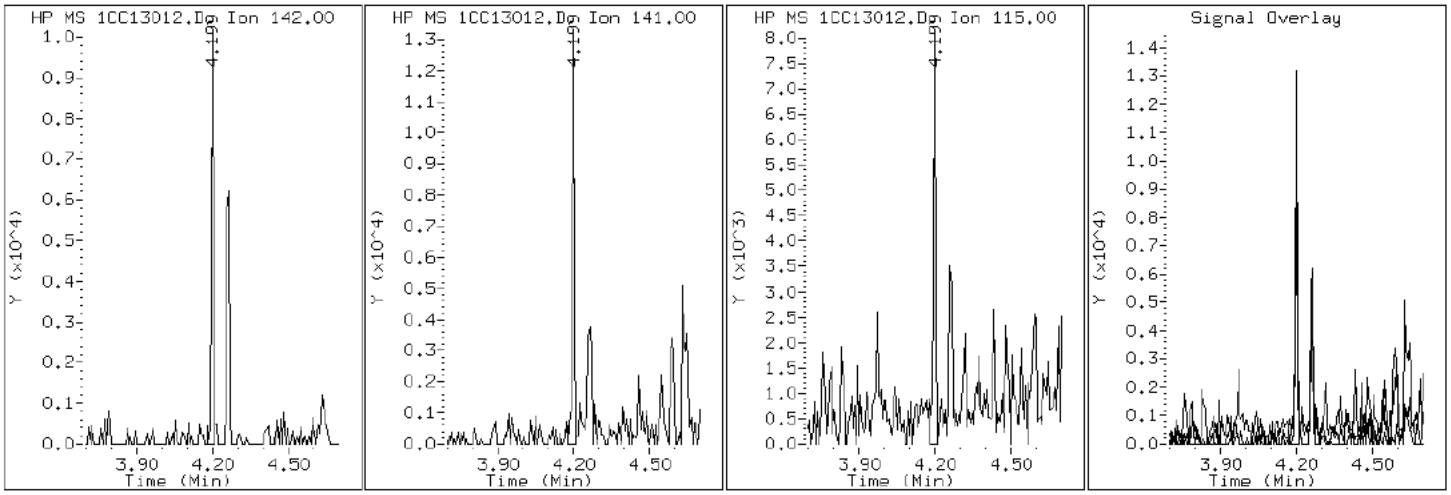
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

3 2-Methylnaphthalene



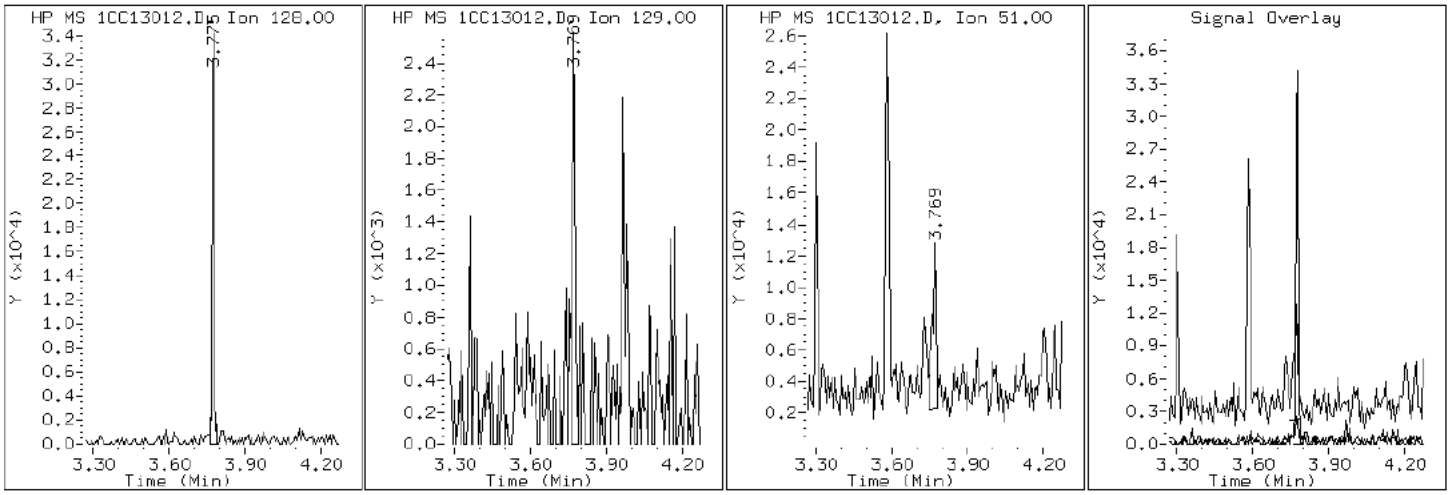
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

2 Naphthalene



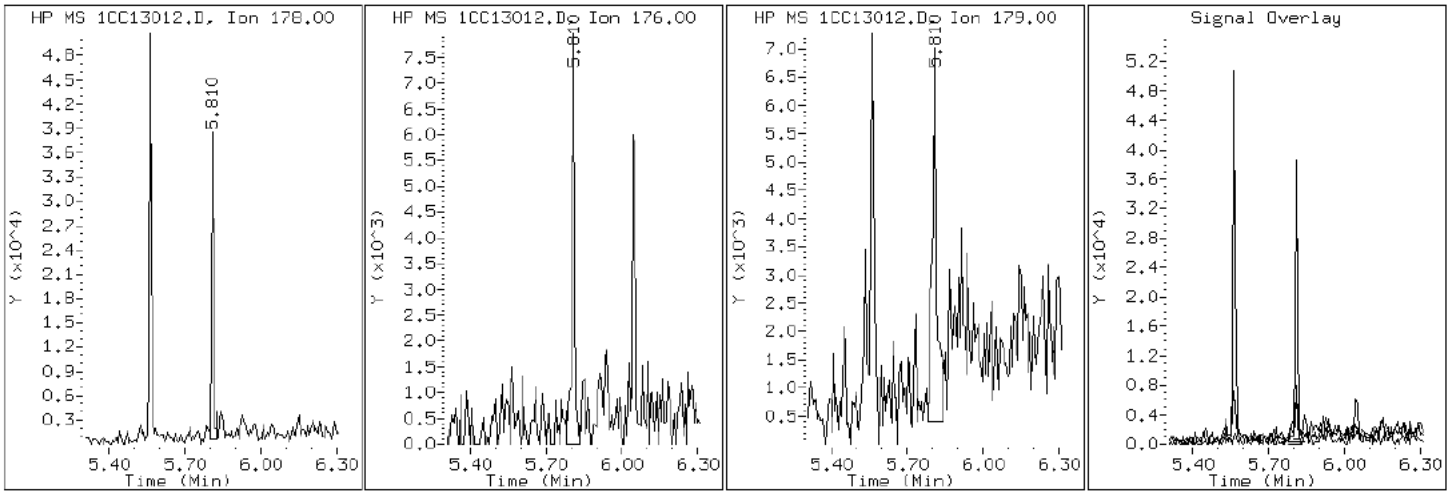
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

11 Phenanthrene



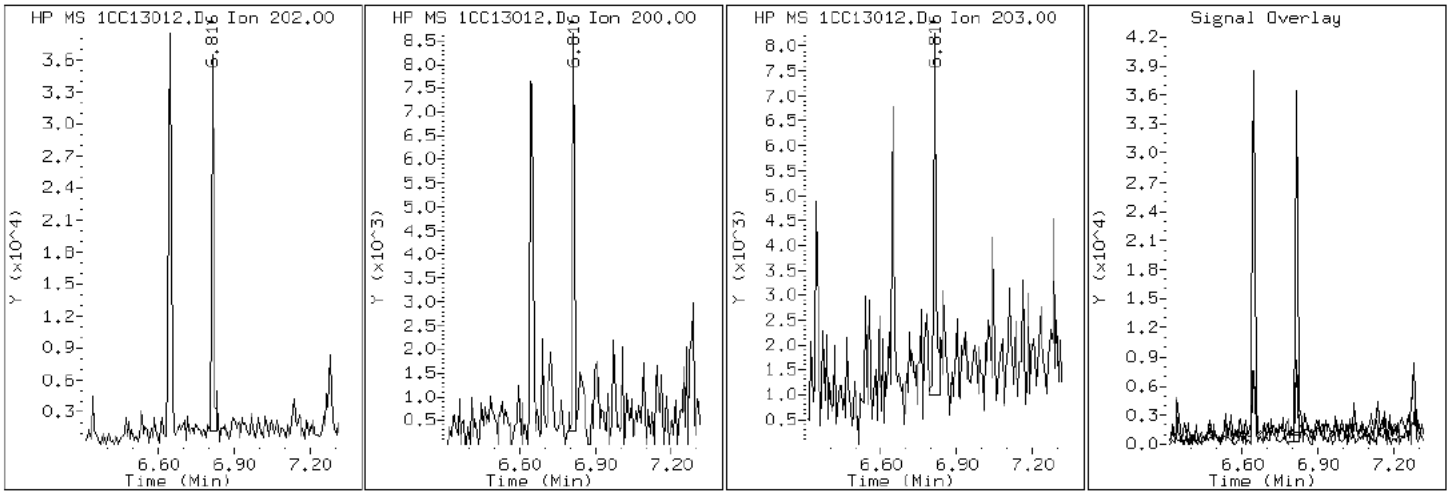
Data File: 1CC13012.D

Date: 13-MAR-2013 14:44

Client ID: HP0313B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-A-18-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC13012.D
Inj. Date and Time: 13-MAR-2013 14:44
Instrument ID: BSMC5973.i
Client ID: HP0313B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

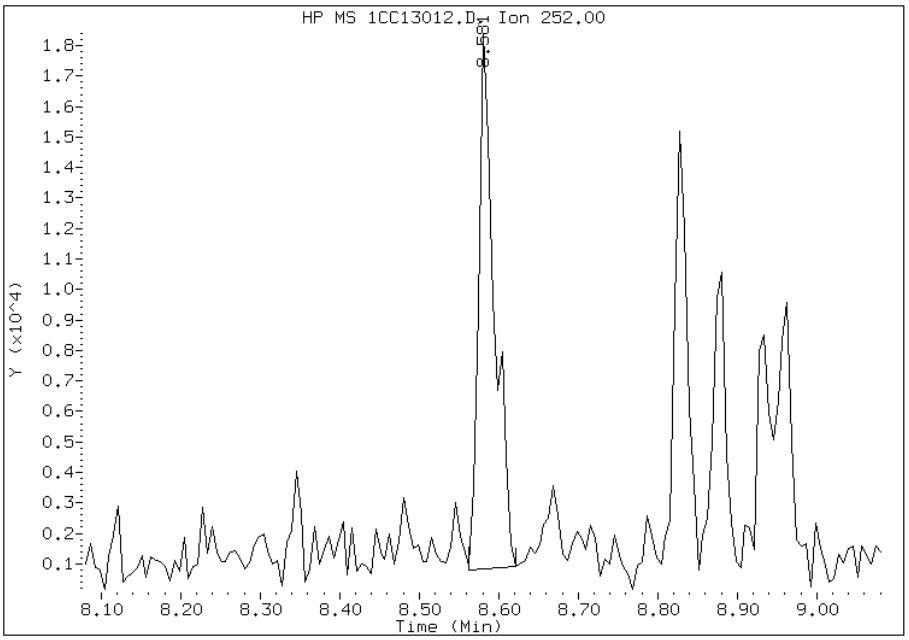
Processing Integration Results

RT: 8.58

Response: 24417

Amount: 1

Conc: 34



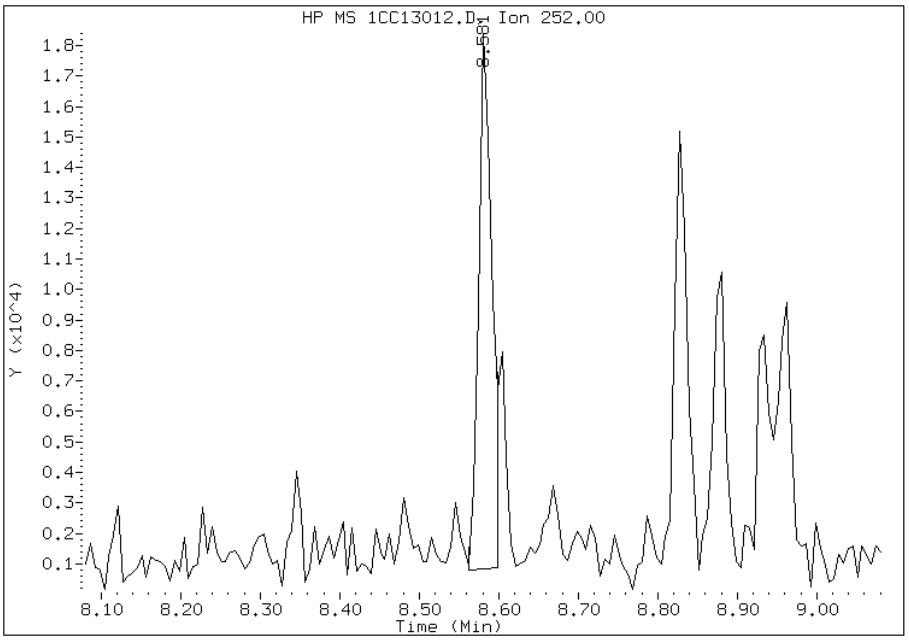
Manual Integration Results

RT: 8.58

Response: 20378

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC13012.D
Inj. Date and Time: 13-MAR-2013 14:44
Instrument ID: BSMC5973.i
Client ID: HP0313B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

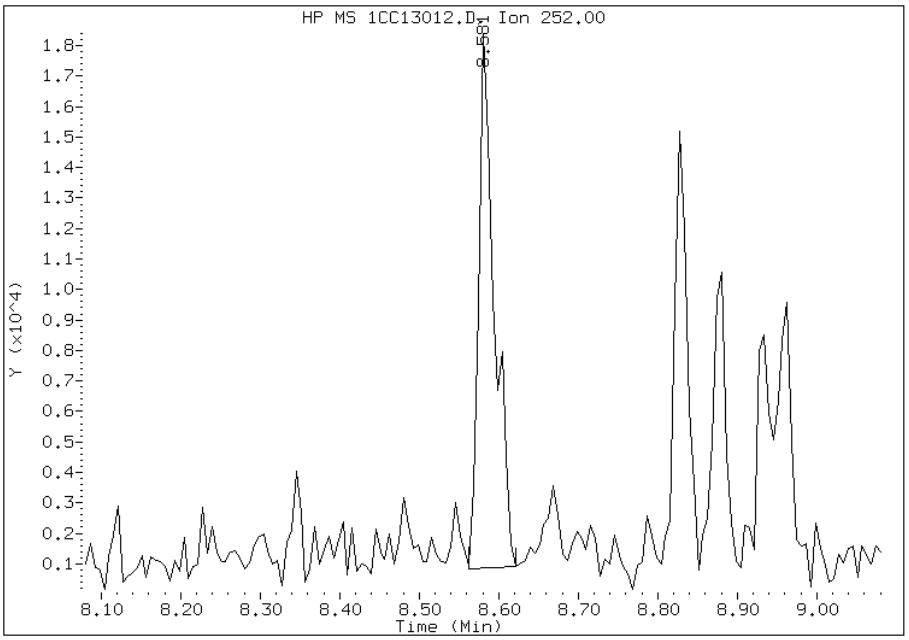
Processing Integration Results

RT: 8.58

Response: 24370

Amount: 0

Conc: 33



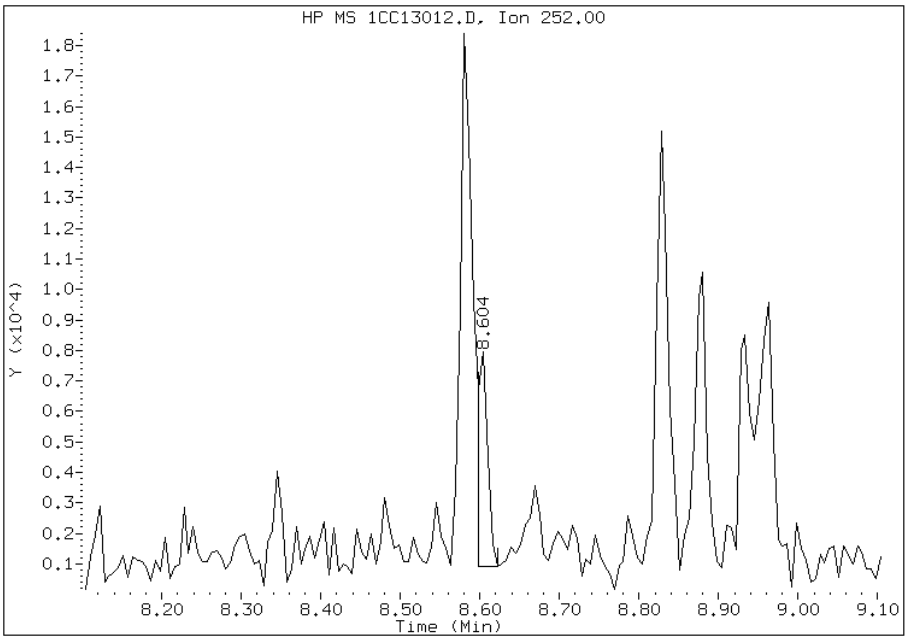
Manual Integration Results

RT: 8.60

Response: 6006

Amount: 0

Conc: 8



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC13012.D
Inj. Date and Time: 13-MAR-2013 14:44
Instrument ID: BSMC5973.i
Client ID: HP0313B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

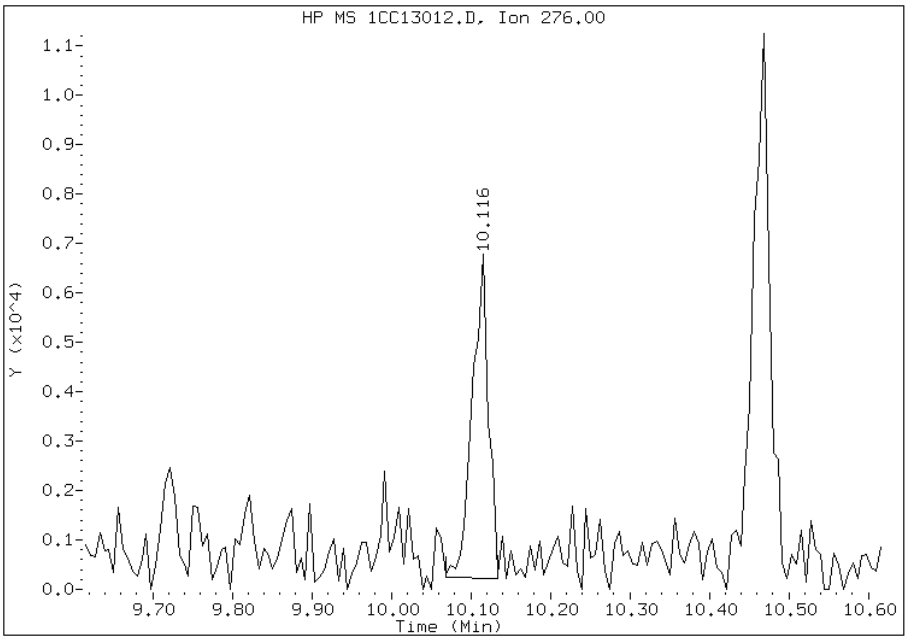
Processing Integration Results

RT: 10.12

Response: 9094

Amount: 0

Conc: 14



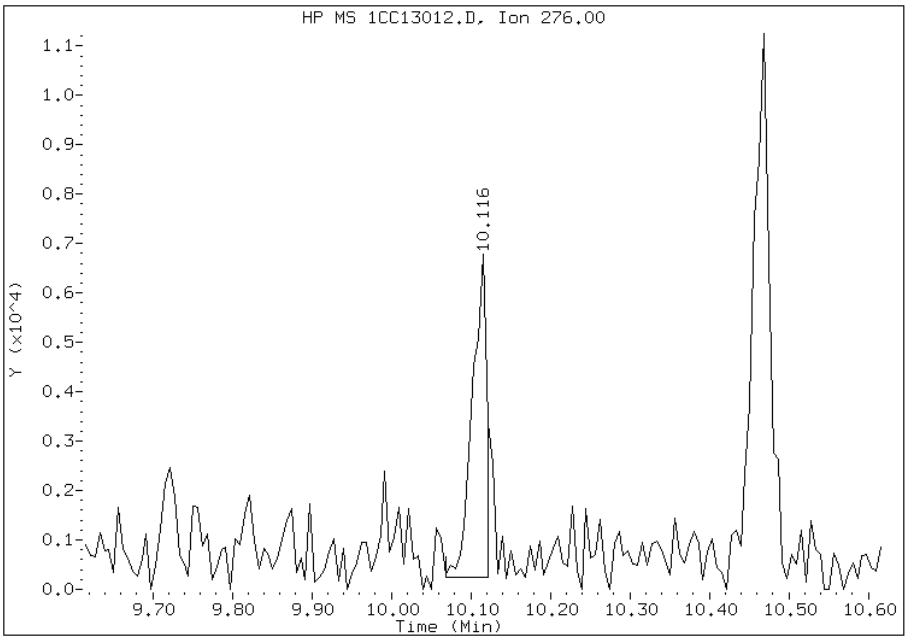
Manual Integration Results

RT: 10.12

Response: 8249

Amount: 0

Conc: 12



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: HP0138A-CS-SP | Lab Sample ID: 680-88065-19

Matrix: Solid | Lab File ID: 1CC12011.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 14:21

Extract. Method: 3546 | Date Extracted: 03/08/2013 12:51

Sample wt/vol: 15.06(g) | Date Analyzed: 03/12/2013 15:16

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.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	15	J	50	6.2
120-12-7	Anthracene	14		10	5.2
56-55-3	Benzo[a]anthracene	100		10	4.9
50-32-8	Benzo[a]pyrene	93		13	6.5
205-99-2	Benzo[b]fluoranthene	130		15	7.6
191-24-2	Benzo[g,h,i]perylene	67		25	5.5
207-08-9	Benzo[k]fluoranthene	43		10	4.5
218-01-9	Chrysene	110		11	5.6
53-70-3	Dibenz(a,h)anthracene	20	J	25	5.1
206-44-0	Fluoranthene	110		25	5.0
86-73-7	Fluorene	7.9	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	51		25	8.9
90-12-0	1-Methylnaphthalene	28	J	50	5.5
91-57-6	2-Methylnaphthalene	33	J	50	8.9
91-20-3	Naphthalene	54		50	5.5
85-01-8	Phenanthrene	69		10	4.9
129-00-0	Pyrene	97		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12011.D
Lab Smp Id: 680-88065-A-19-A Client Smp ID: HP0138A-CS-SP
Inj Date : 12-MAR-2013 15:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-a-19-a
Misc Info : 680-88065-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	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	3.763	3.763	(1.000)	1289272	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1002410	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1905530	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	169197	5.88097	488.9452
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2137532	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	2064663	40.0000	
2 Naphthalene	128	3.775	3.774	(1.003)	21982	0.65492	54.4498(Q)
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	8819	0.39390	32.7487
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	6965	0.34157	28.3982
5 Acenaphthylene	152	4.763	4.763	(0.982)	7064	0.17479	14.5321
9 Fluorene	166	5.186	5.192	(1.069)	3030	0.09538	7.9297(Q)
11 Phenanthrene	178	5.816	5.815	(1.002)	45406	0.82407	68.5136
12 Anthracene	178	5.851	5.851	(1.008)	8922	0.16557	13.7654
13 Carbazole	167	5.957	5.957	(1.026)	6291	0.13133	10.9189(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	77667	1.28714	107.0133
16 Pyrene	202	6.821	6.827	(0.881)	66920	1.16498	96.8566
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	75041	1.21636	101.1281
19 Chrysene	228	7.763	7.768	(1.002)	84825	1.37391	114.2275
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	85497	1.58453	131.7382
21 Benzo(k)fluoranthene	252	8.610	8.615	(0.963)	28529	0.51541	42.8514(Q)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	58829	1.12247	93.3225
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	30511	0.61884	51.4508(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	11502	0.23850	19.8293
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	41430	0.80329	66.7858

QC Flag Legend

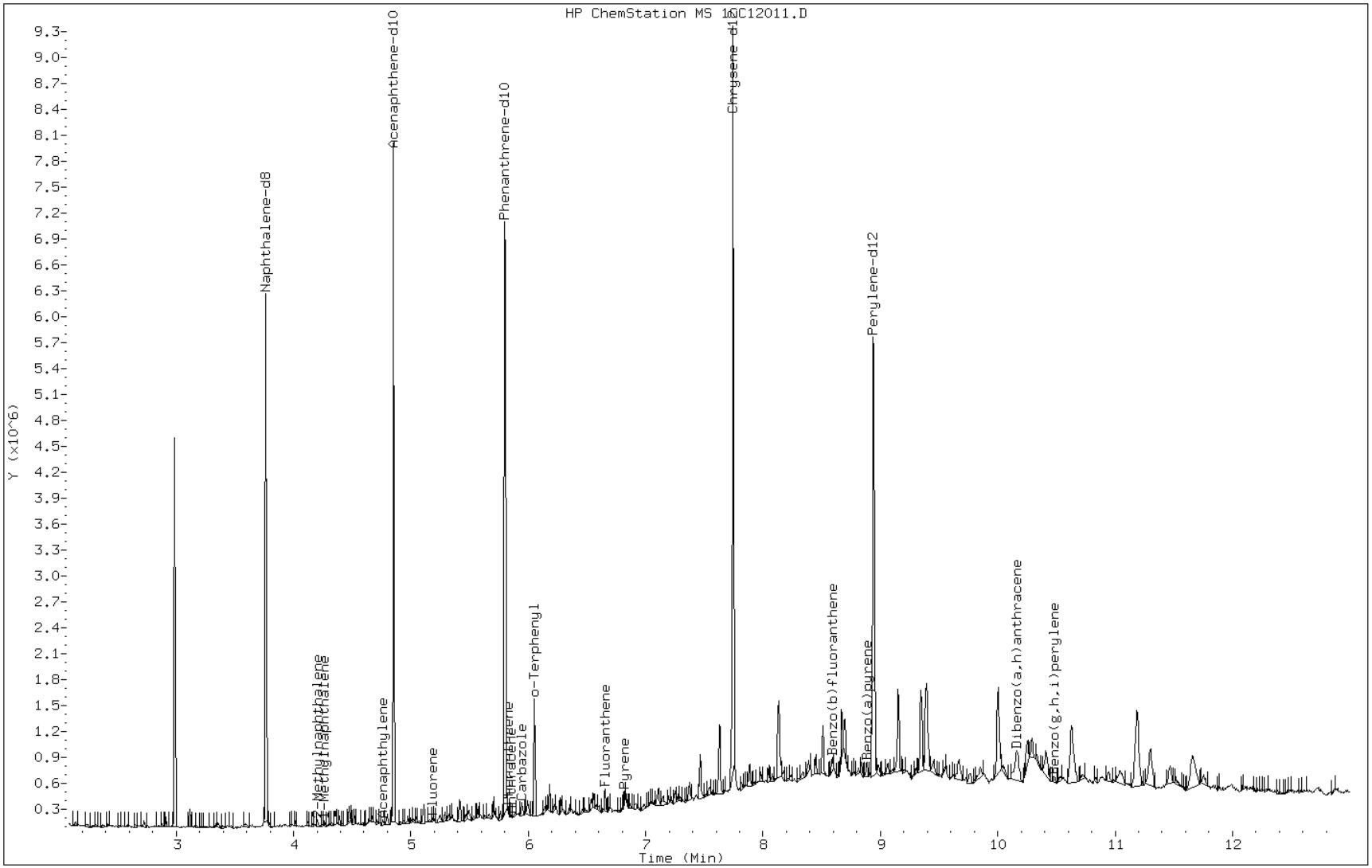
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC



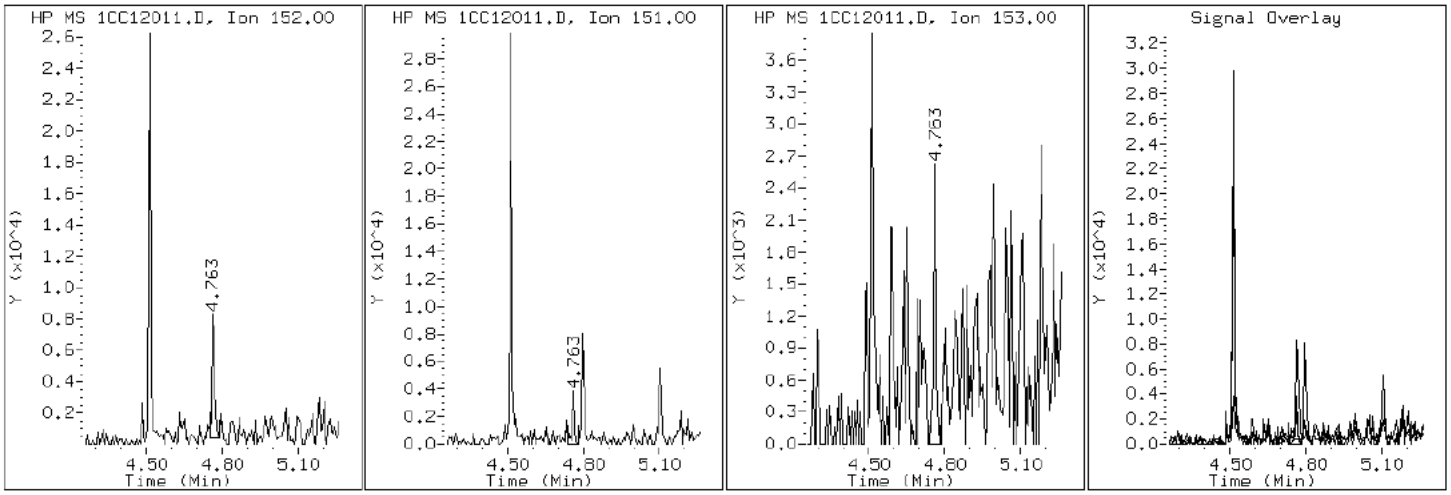
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

5 Acenaphthylene



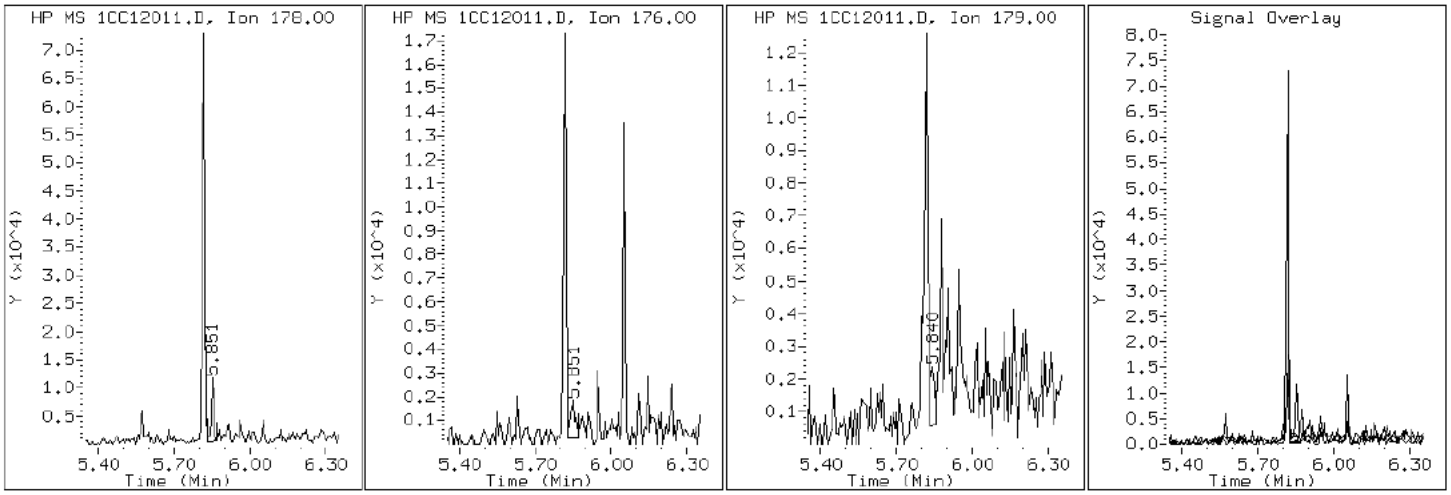
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

12 Anthracene



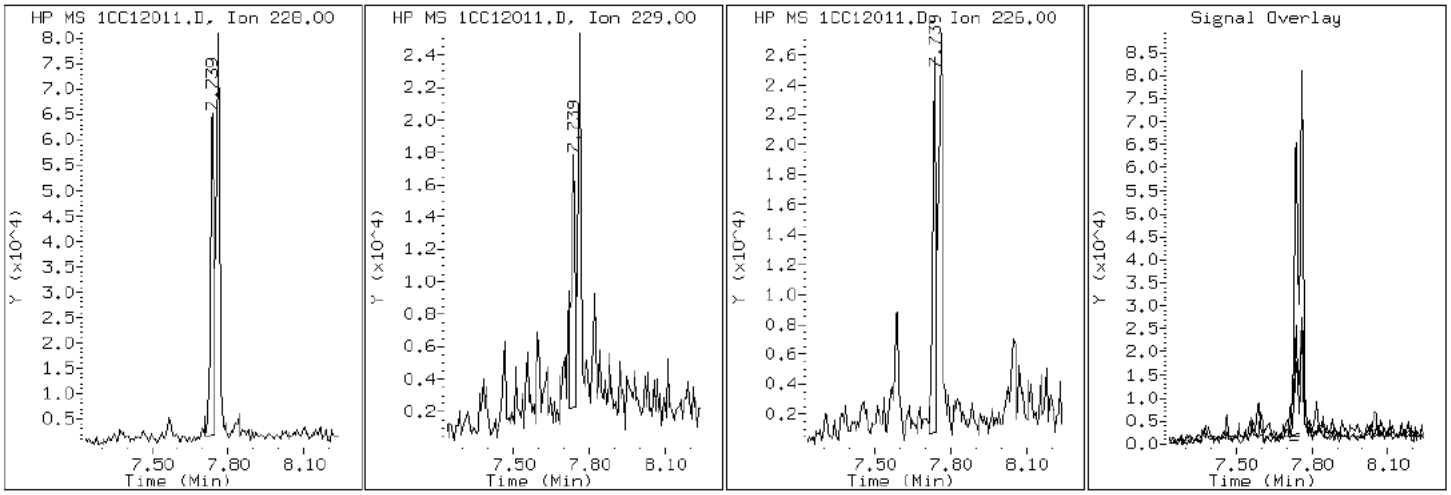
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

17 Benzo(a)anthracene



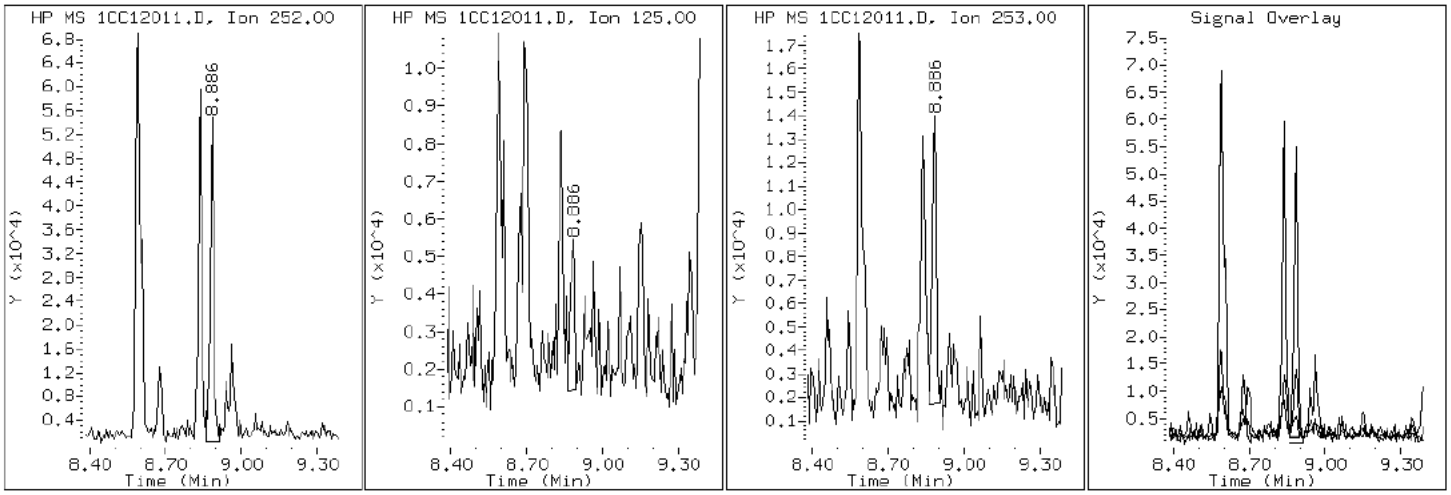
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

22 Benzo(a)pyrene



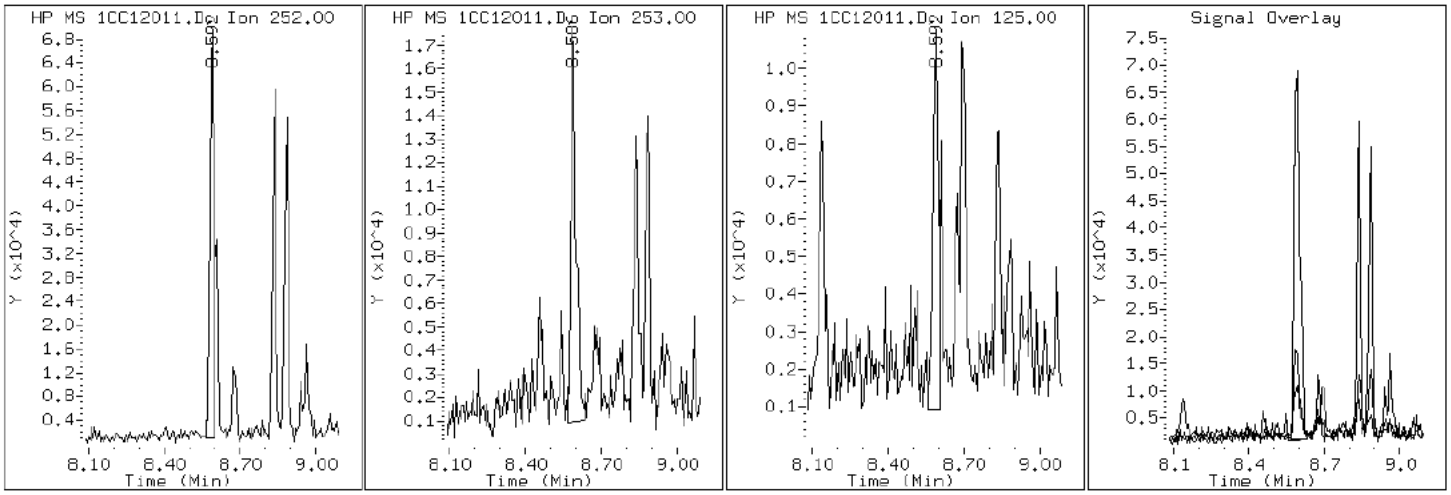
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



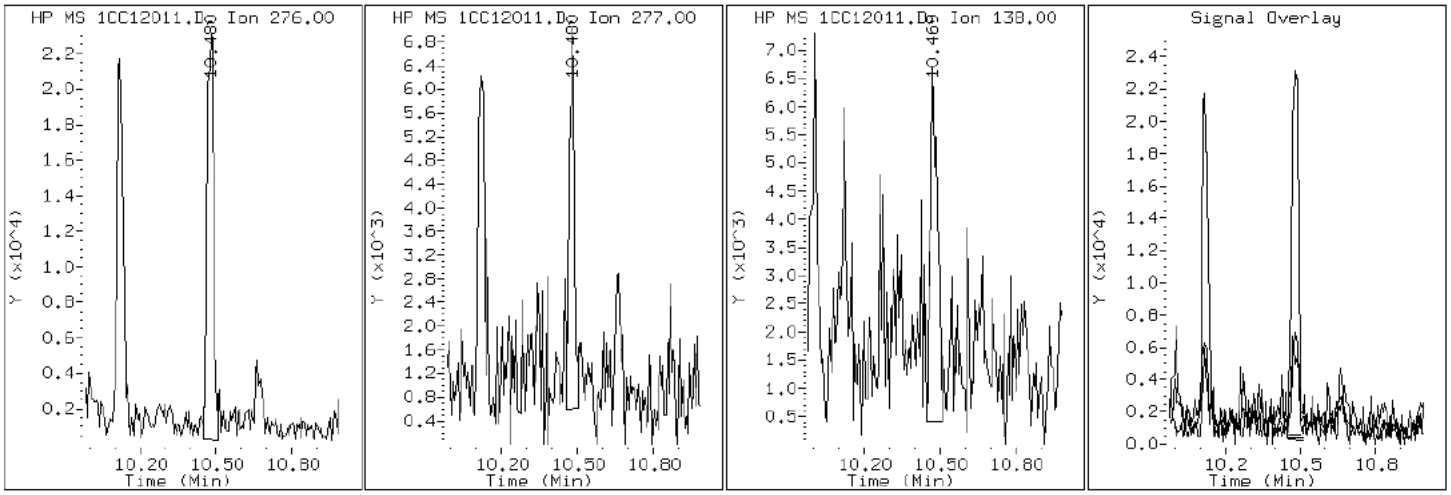
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



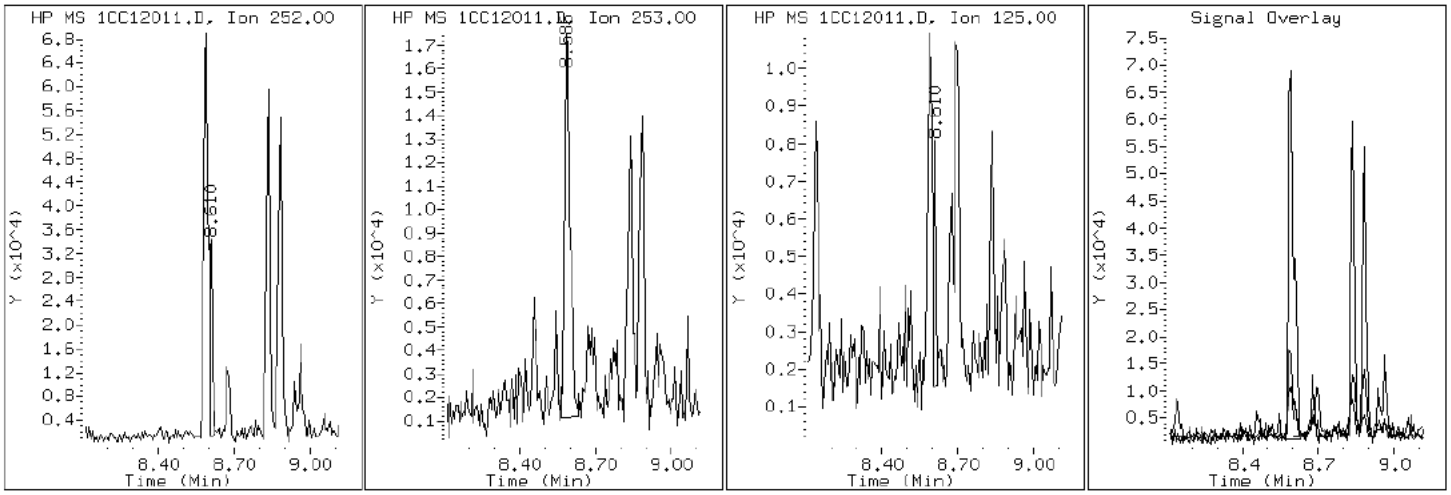
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



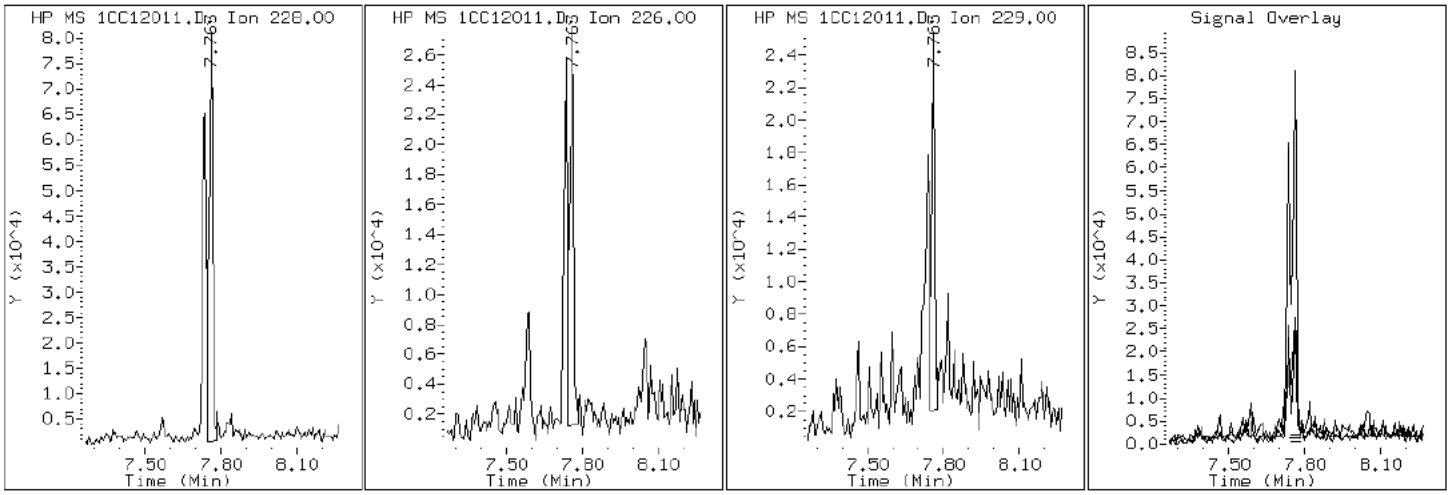
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

19 Chrysene



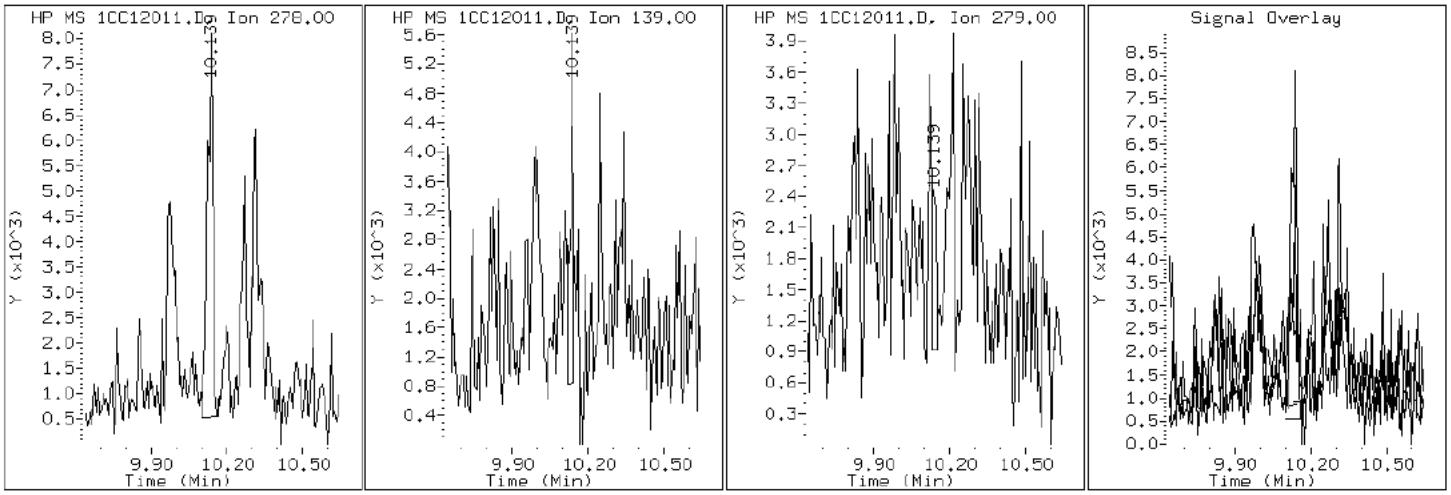
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



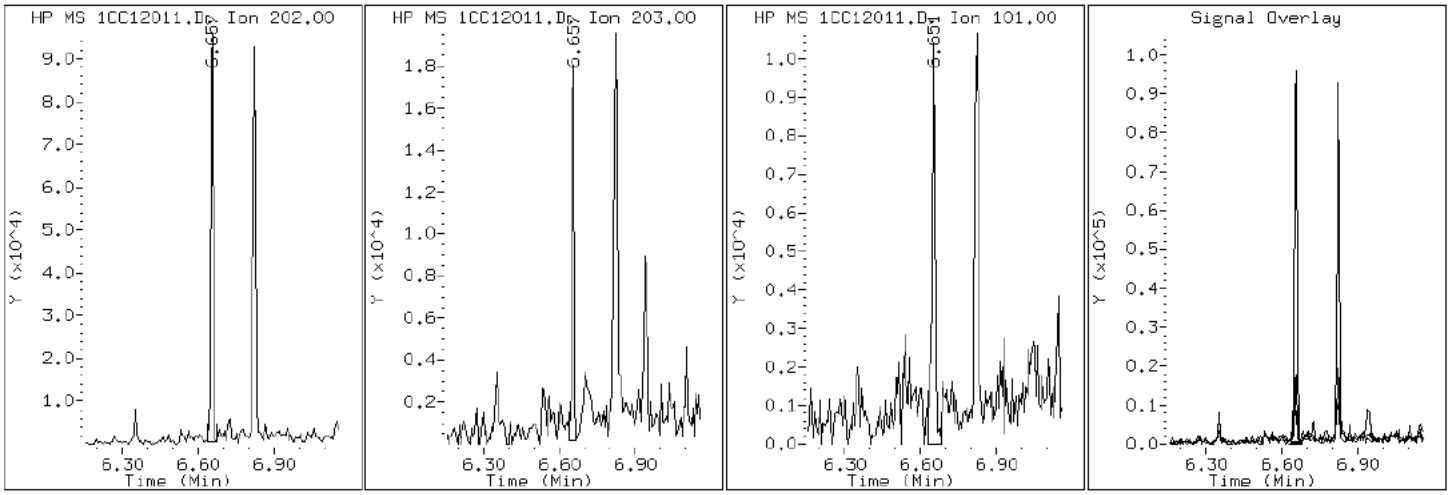
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

15 Fluoranthene



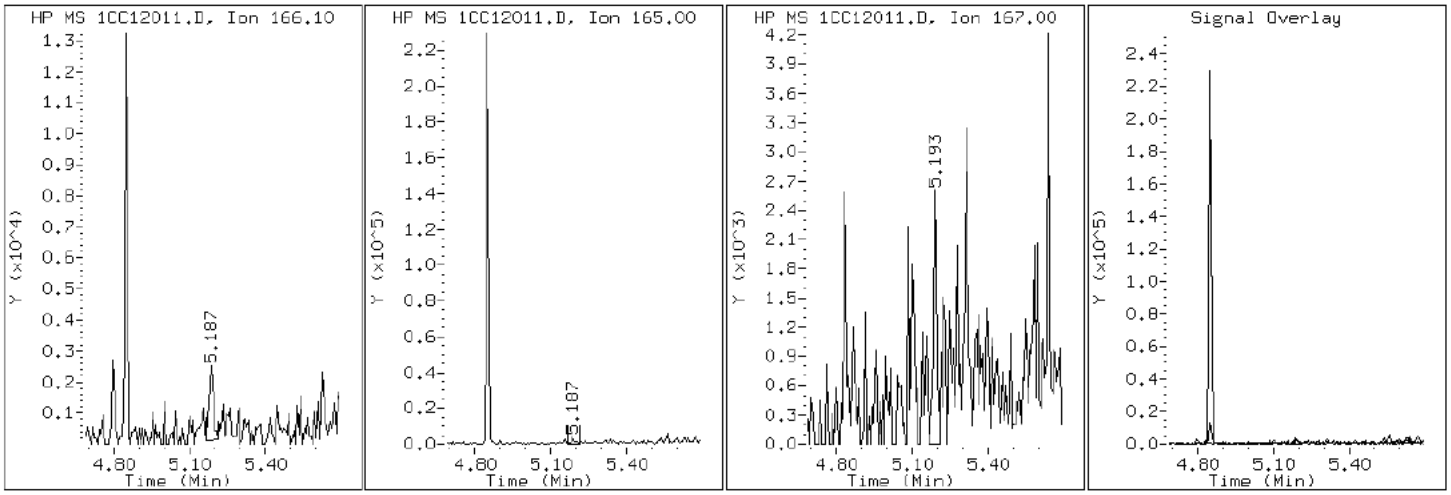
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

9 Fluorene



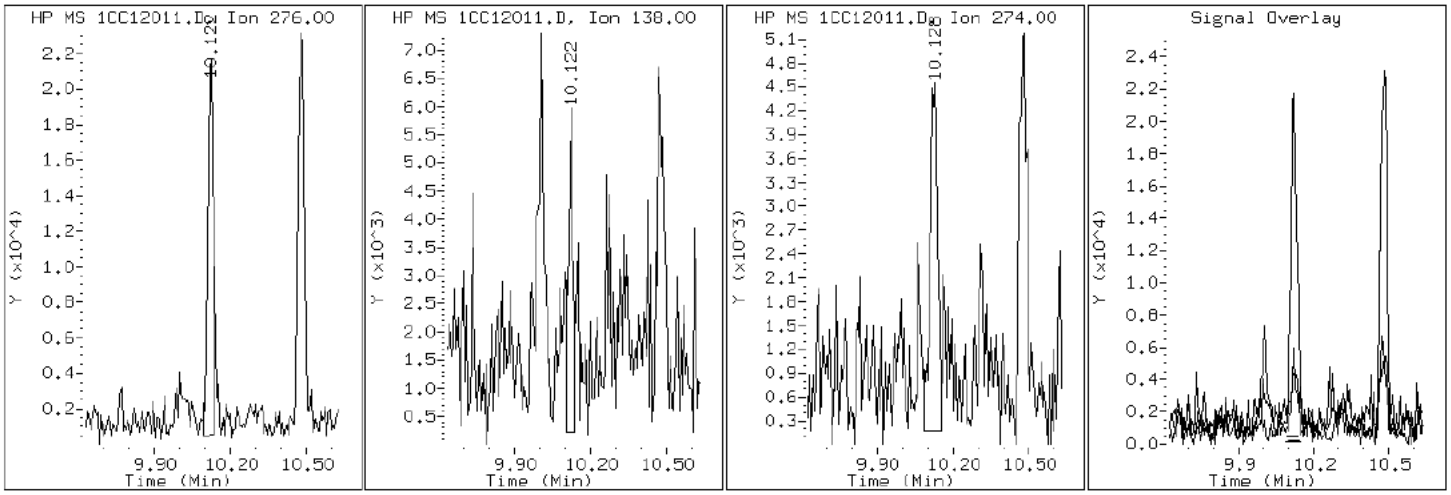
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

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



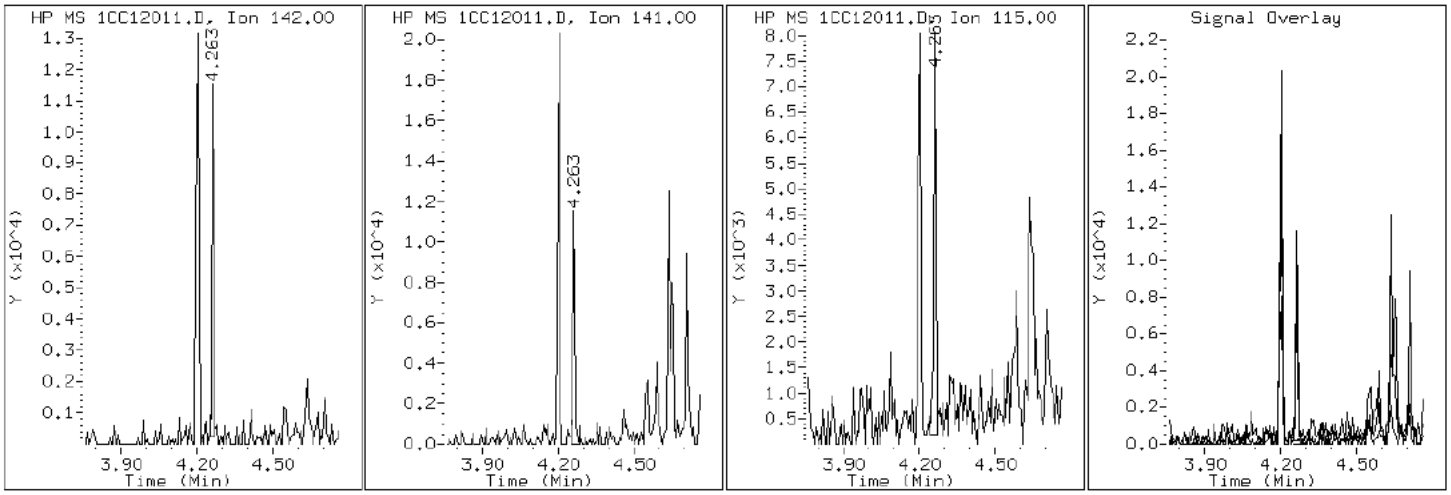
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

4 1-Methylnaphthalene



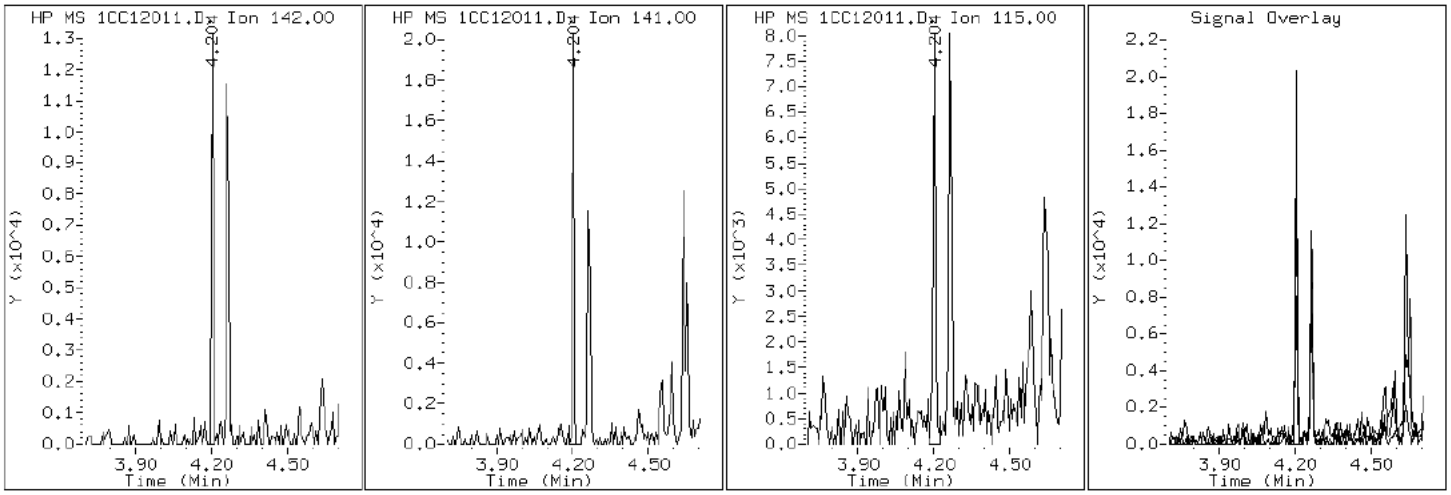
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

3 2-Methylnaphthalene



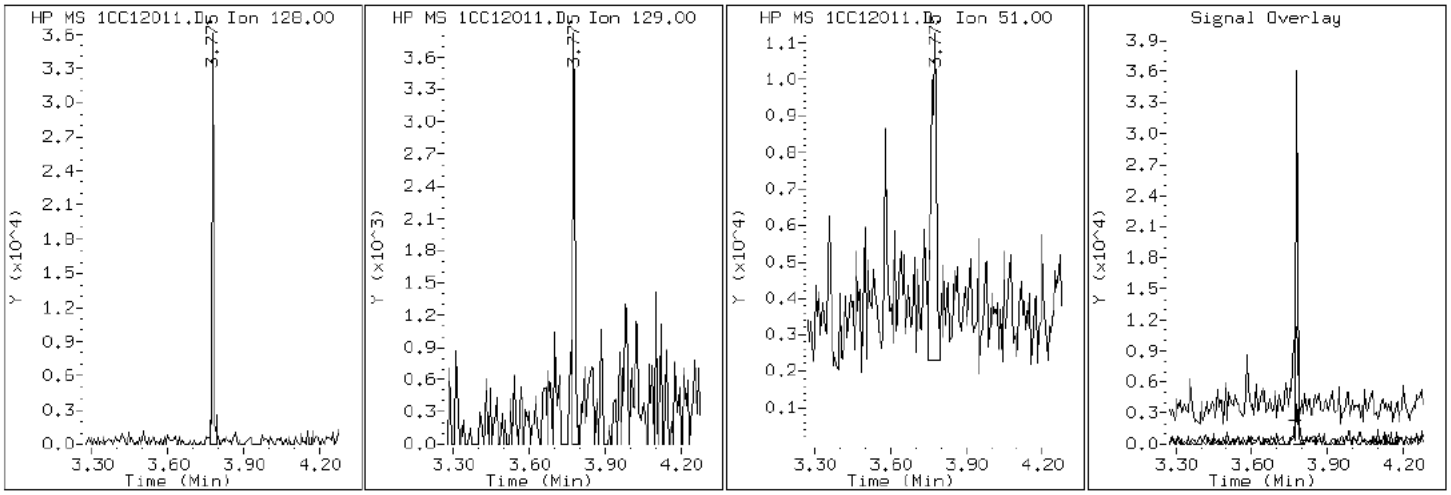
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

2 Naphthalene



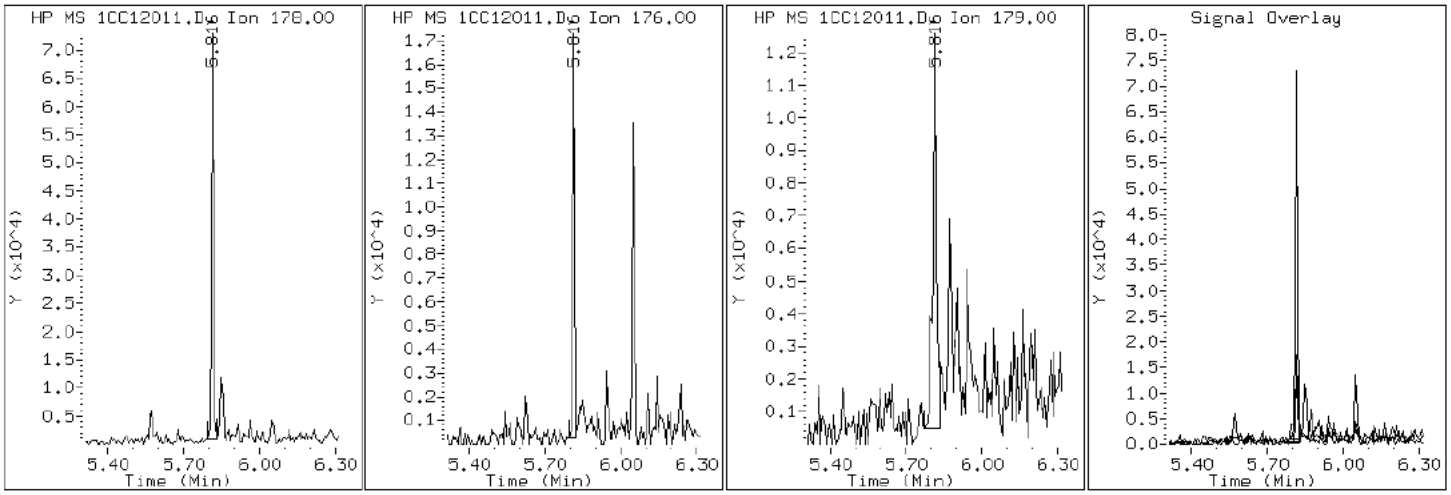
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

11 Phenanthrene



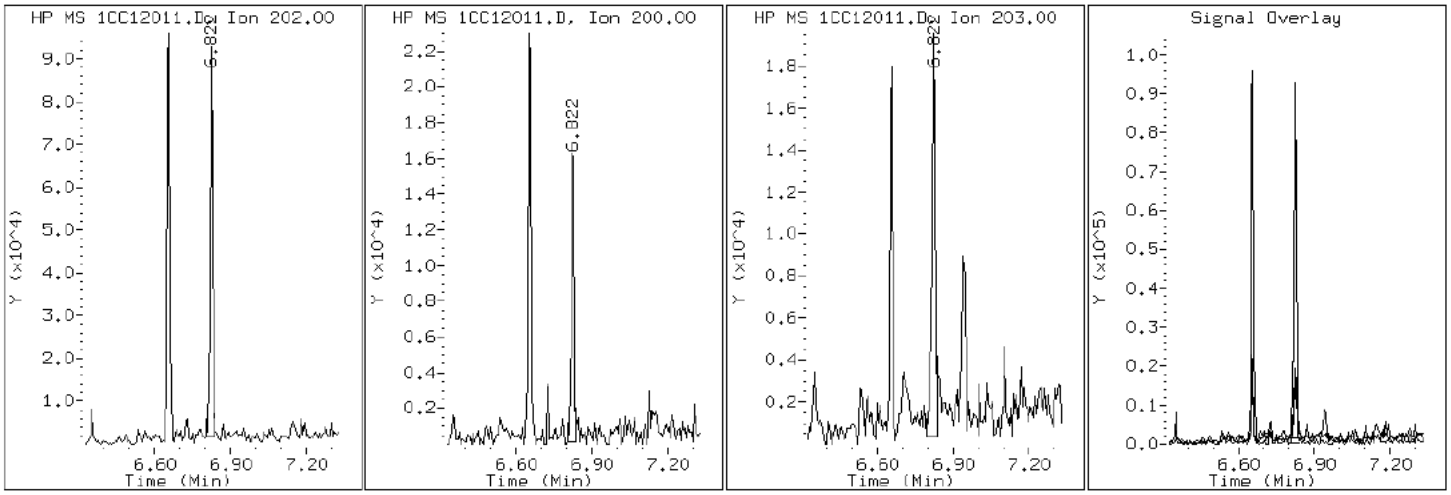
Data File: 1CC12011.D

Date: 12-MAR-2013 15:16

Client ID: HP0138A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12011.D
Inj. Date and Time: 12-MAR-2013 15:16
Instrument ID: BSMC5973.i
Client ID: HP0138A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

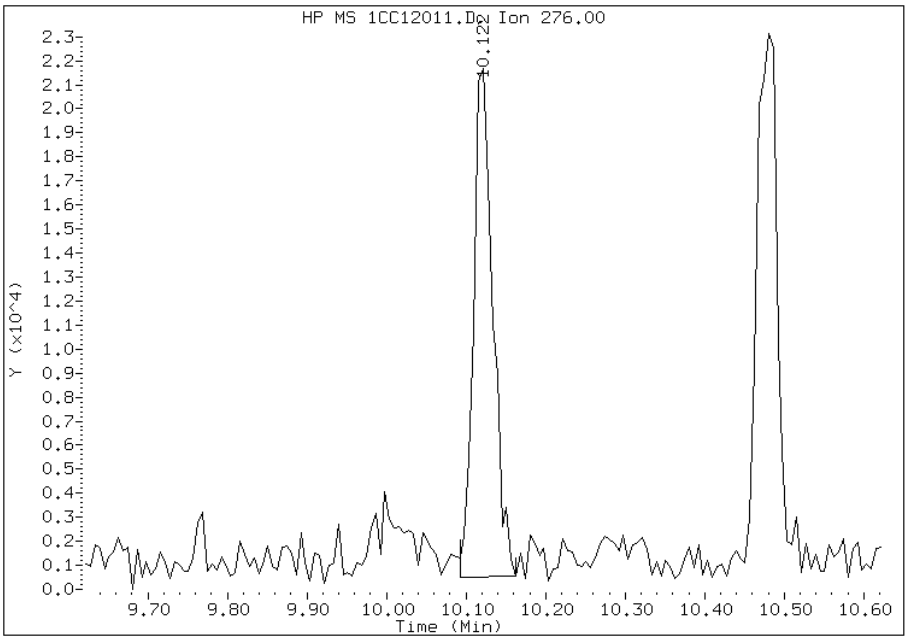
Processing Integration Results

RT: 10.12

Response: 35463

Amount: 1

Conc: 60



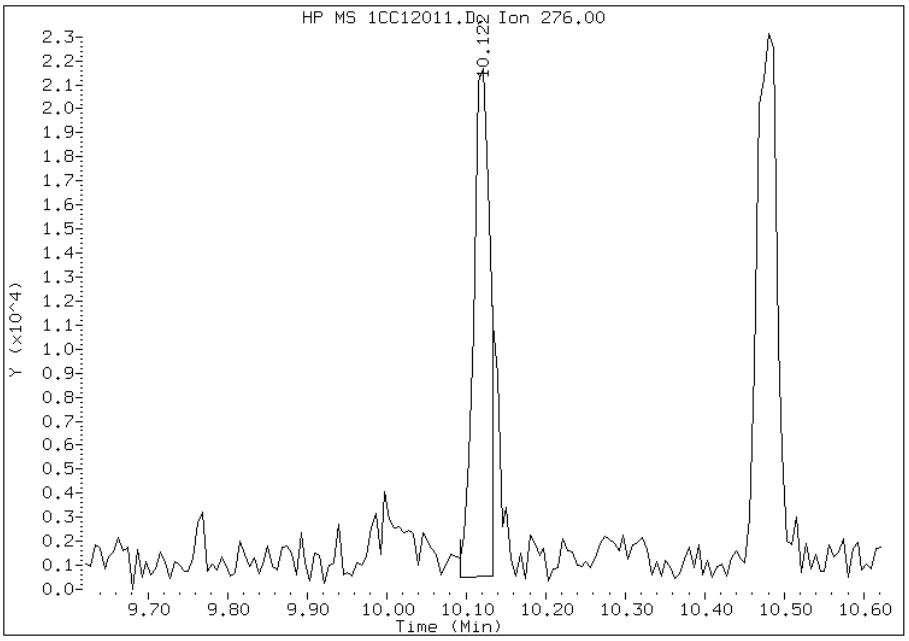
Manual Integration Results

RT: 10.12

Response: 30511

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: HP0138B-CS-SP | Lab Sample ID: 680-88065-20

Matrix: Solid | Lab File ID: 1CC12012.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 14:35

Extract. Method: 3546 | Date Extracted: 03/08/2013 12:51

Sample wt/vol: 15.01(g) | Date Analyzed: 03/12/2013 15:35

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

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	22	J	54	6.8
120-12-7	Anthracene	24		11	5.7
56-55-3	Benzo[a]anthracene	98		11	5.3
50-32-8	Benzo[a]pyrene	100		14	7.1
205-99-2	Benzo[b]fluoranthene	190		17	8.3
191-24-2	Benzo[g,h,i]perylene	75		27	6.0
207-08-9	Benzo[k]fluoranthene	72		11	4.9
218-01-9	Chrysene	130		12	6.1
53-70-3	Dibenz(a,h)anthracene	25	J	27	5.6
206-44-0	Fluoranthene	110		27	5.4
86-73-7	Fluorene	7.8	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	56		27	9.6
90-12-0	1-Methylnaphthalene	29	J	54	6.0
91-57-6	2-Methylnaphthalene	54		54	9.6
91-20-3	Naphthalene	79		54	6.0
85-01-8	Phenanthrene	89		11	5.3
129-00-0	Pyrene	110		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12012.D
Lab Smp Id: 680-88065-A-20-A Client Smp ID: HP0138B-CS-SP
Inj Date : 12-MAR-2013 15:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-a-20-a
Misc Info : 680-88065-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	26.418	% 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	3.763	3.763	(1.000)	1375322	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1118654	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	2050469	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	167246	5.40225	489.1290
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2353865	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	2123351	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	31251	0.87282	79.0262
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	14117	0.59108	53.5174
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	6927	0.31845	28.8332
5 Acenaphthylene	152	4.768	4.763	(0.983)	10783	0.23909	21.6474
9 Fluorene	166	5.192	5.192	(1.070)	3057	0.08623	7.8072(Q)
11 Phenanthrene	178	5.815	5.815	(1.002)	58199	0.98159	88.8749
12 Anthracene	178	5.851	5.851	(1.008)	15647	0.26984	24.4319
13 Carbazole	167	5.957	5.957	(1.026)	12088	0.23451	21.2331

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.656	6.657	(1.147)	79507	1.22450	110.8682
16 Pyrene	202	6.821	6.827	(0.881)	80212	1.26804	114.8104
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	73210	1.07761	97.5690
19 Chrysene	228	7.762	7.768	(1.002)	96232	1.41542	128.1549
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	116641	2.10198	190.3167(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	45028	0.79100	71.6187(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	62029	1.15082	104.1969
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	31150	0.61434	55.6236(M)
25 Dibenzo(a,h)anthracene	278	10.133	10.145	(1.133)	13965	0.28157	25.4941(M)
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	43753	0.82489	74.6865

QC Flag Legend

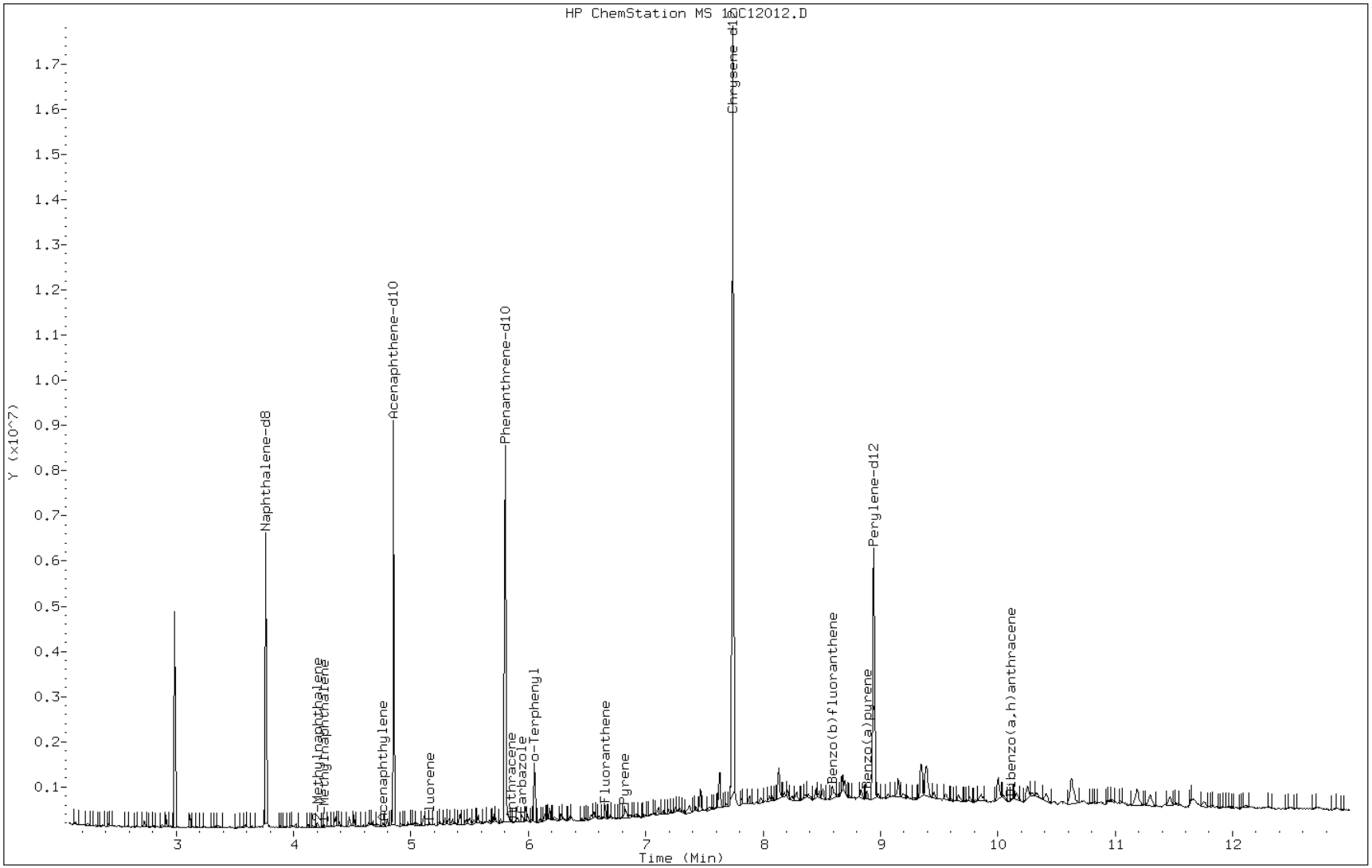
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC



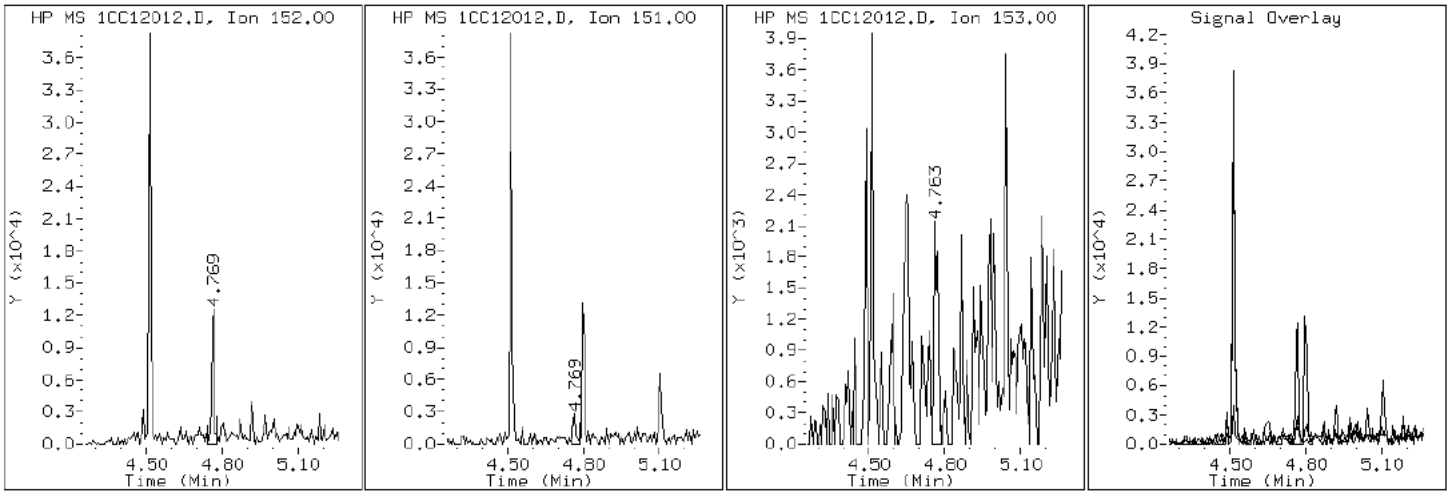
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

5 Acenaphthylene



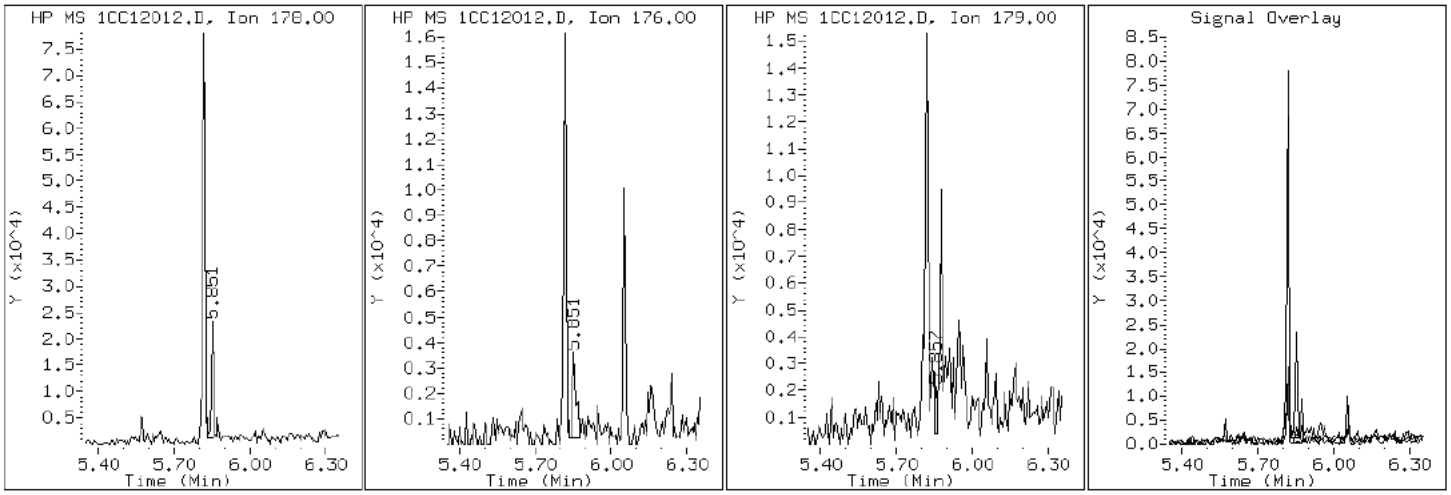
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

12 Anthracene



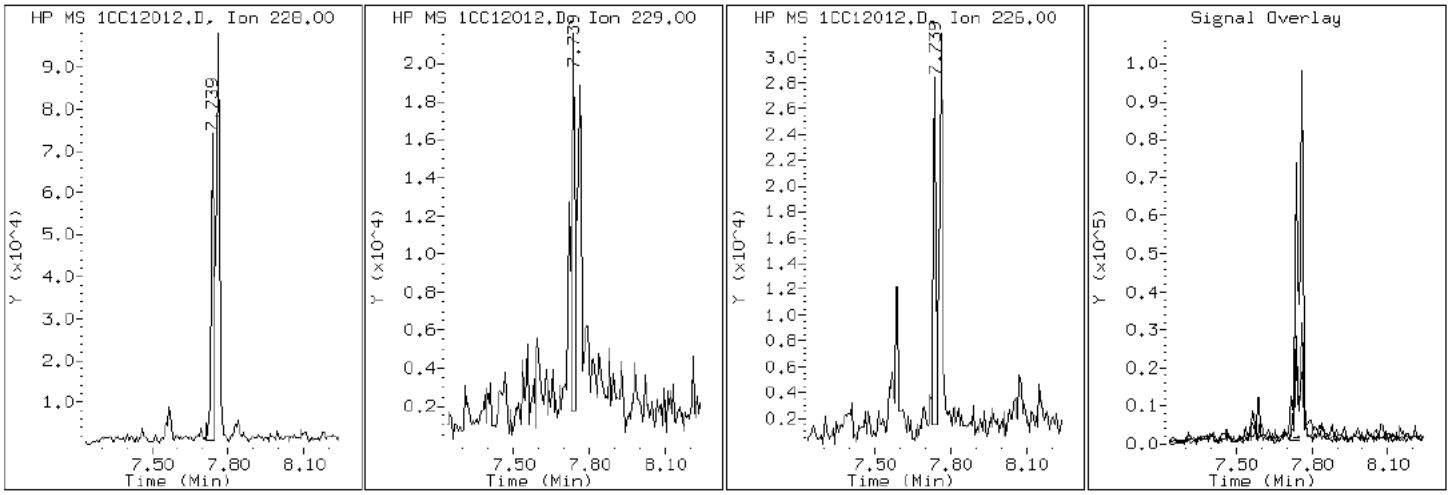
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

17 Benzo(a)anthracene



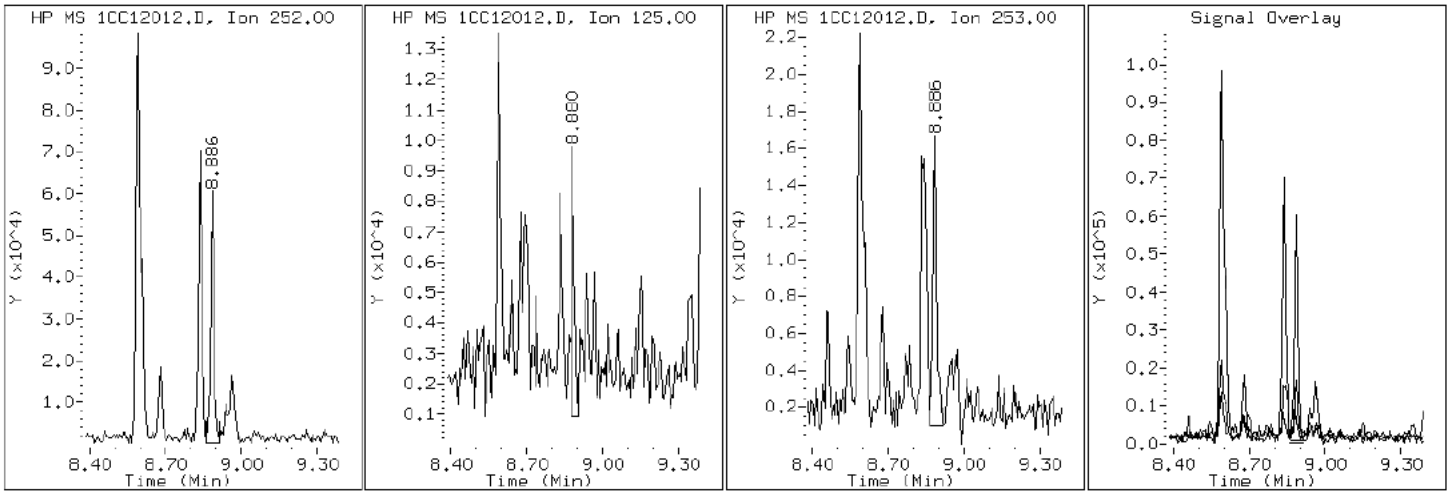
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

22 Benzo(a)pyrene



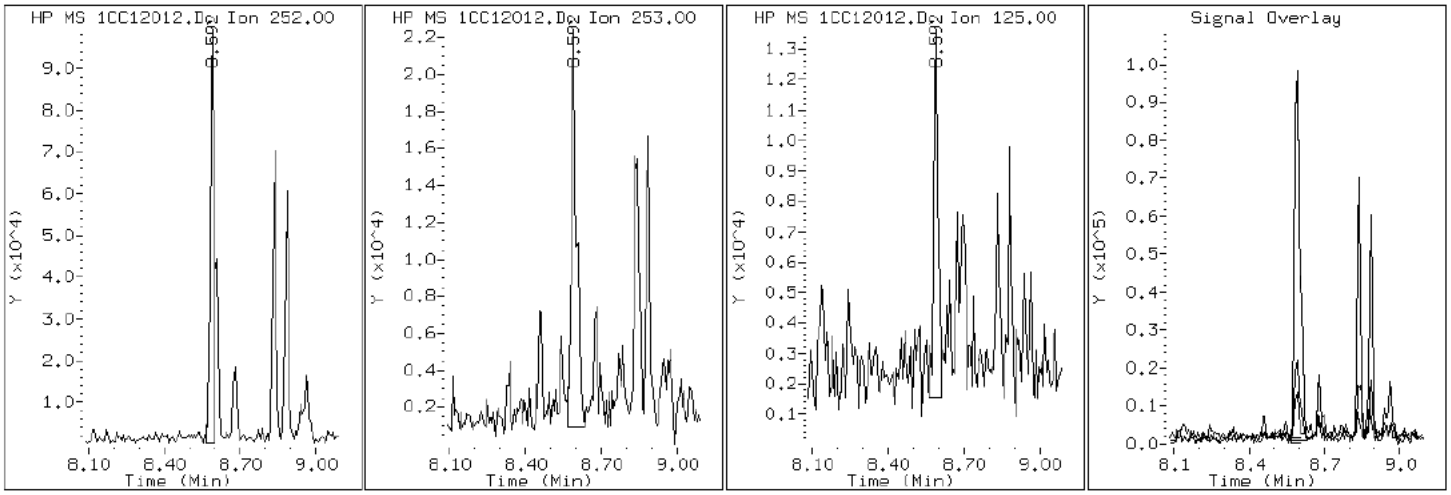
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



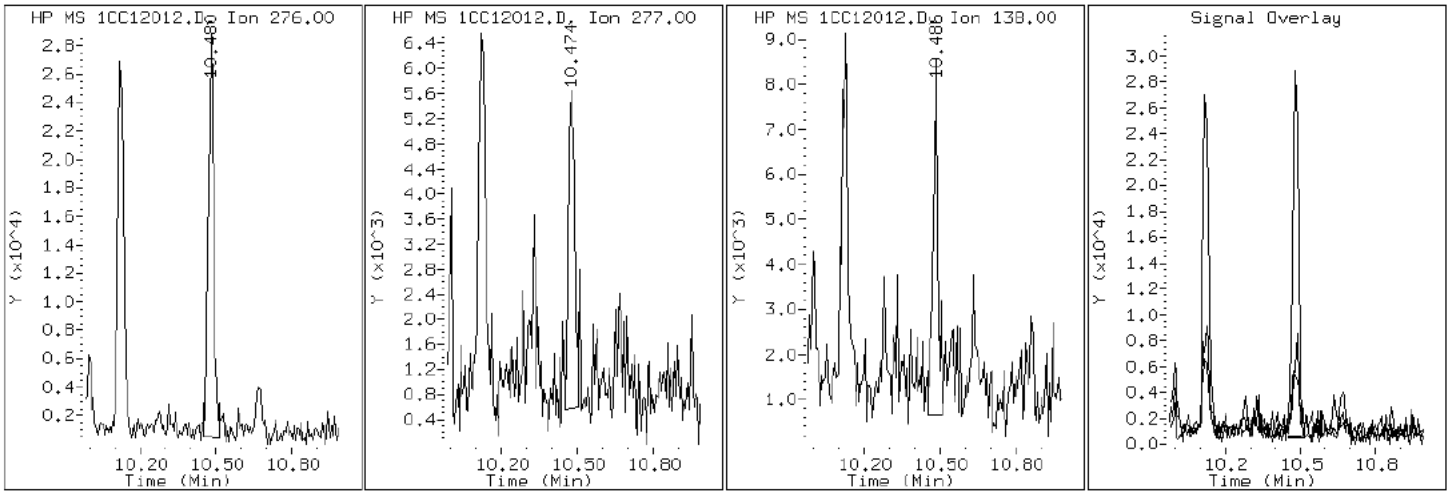
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



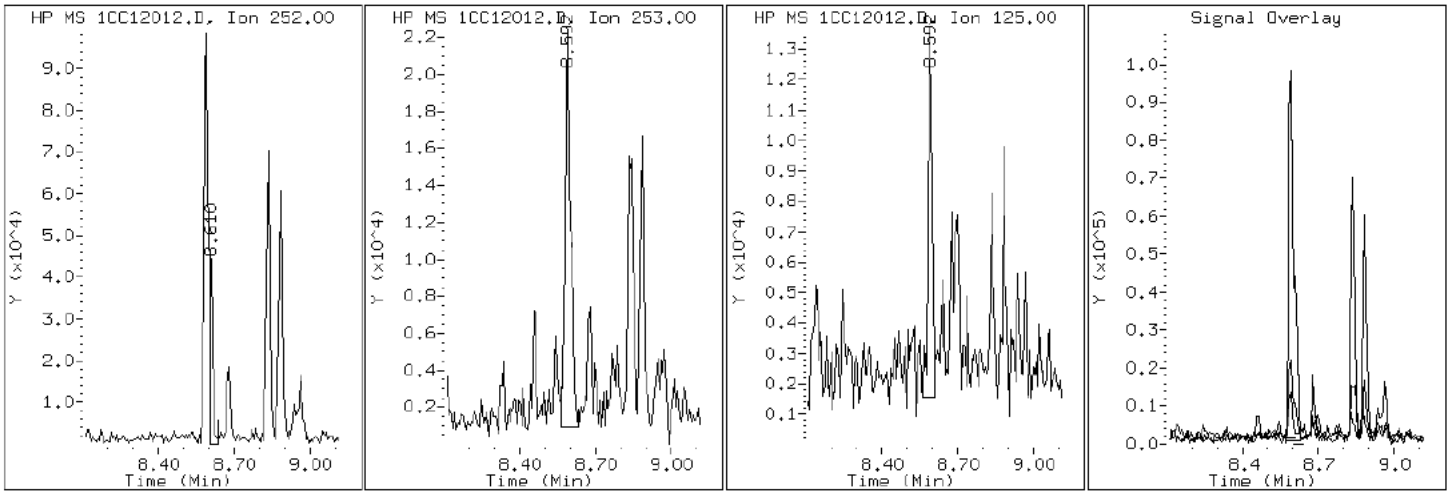
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



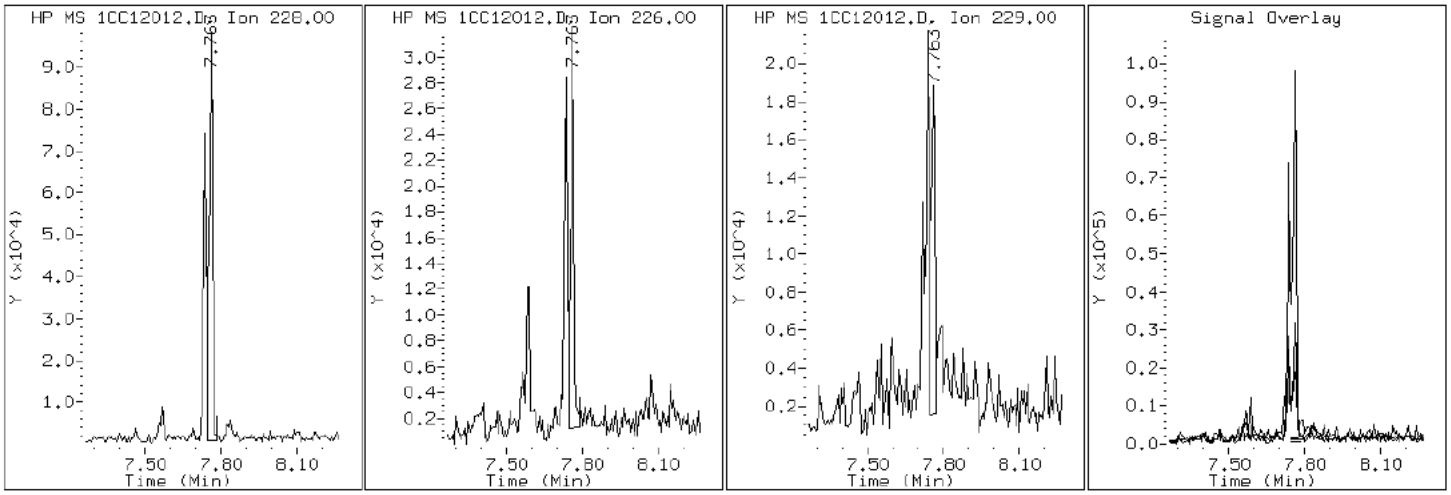
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

19 Chrysene



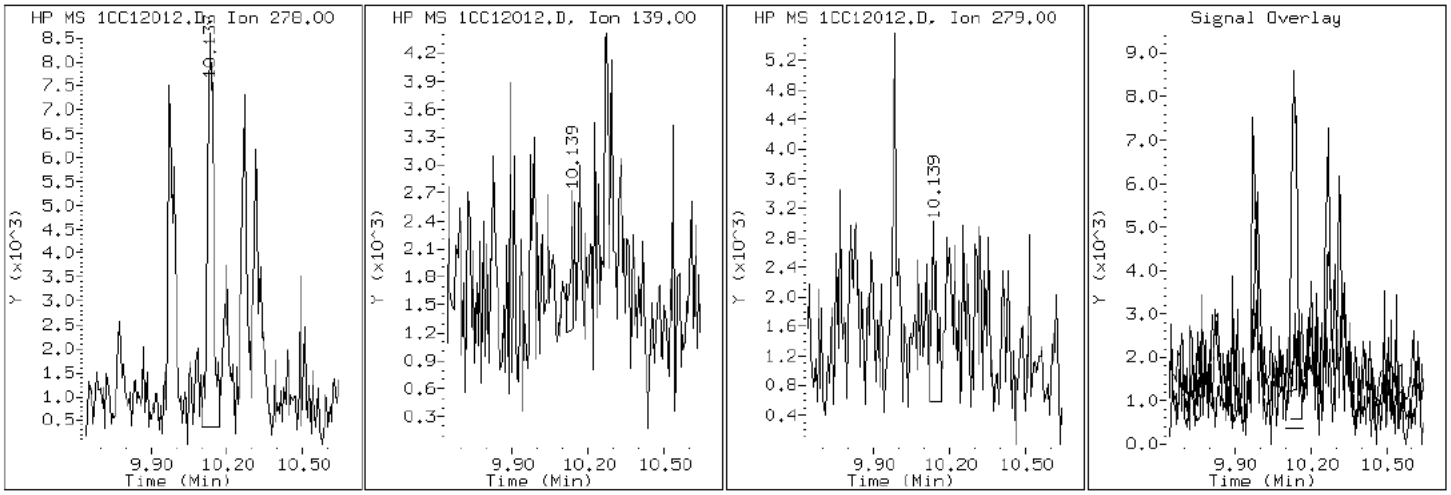
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



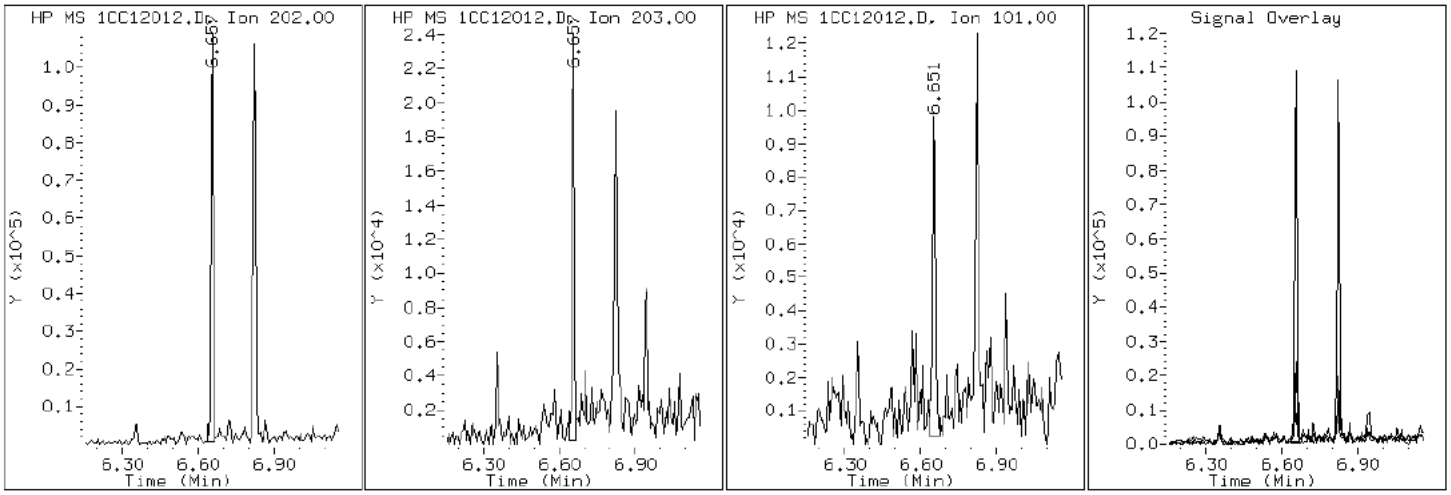
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

15 Fluoranthene



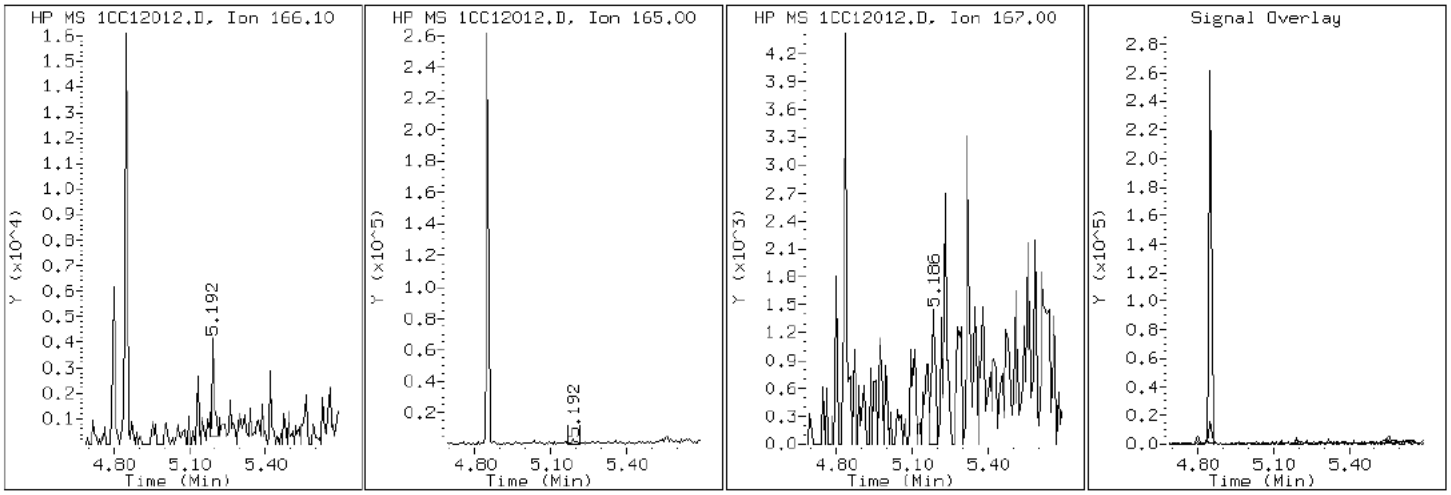
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

9 Fluorene



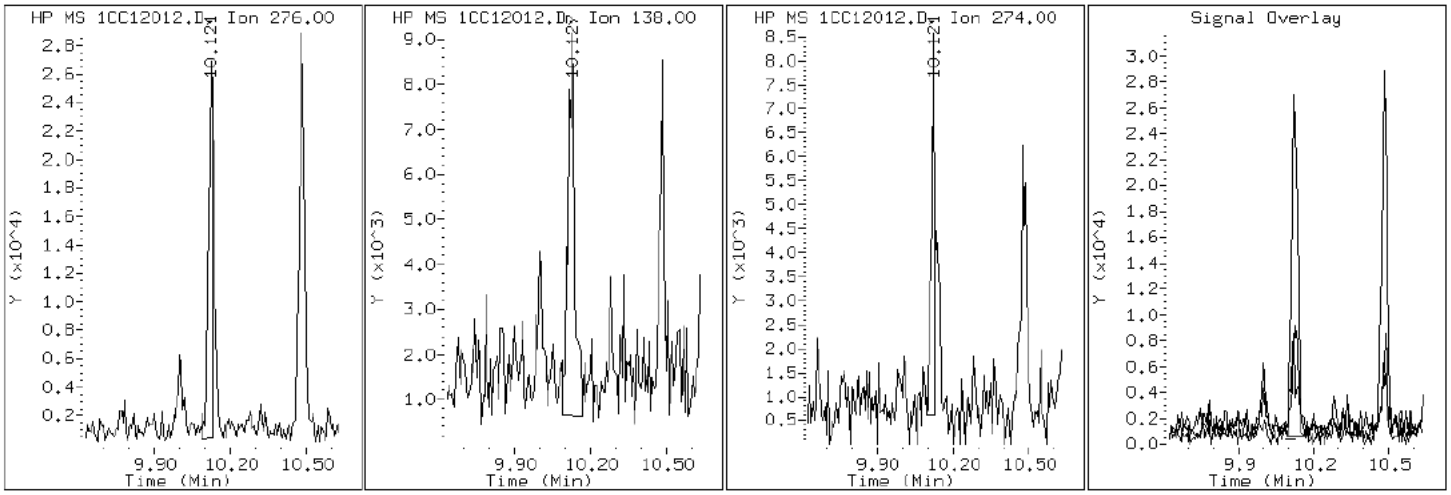
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

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



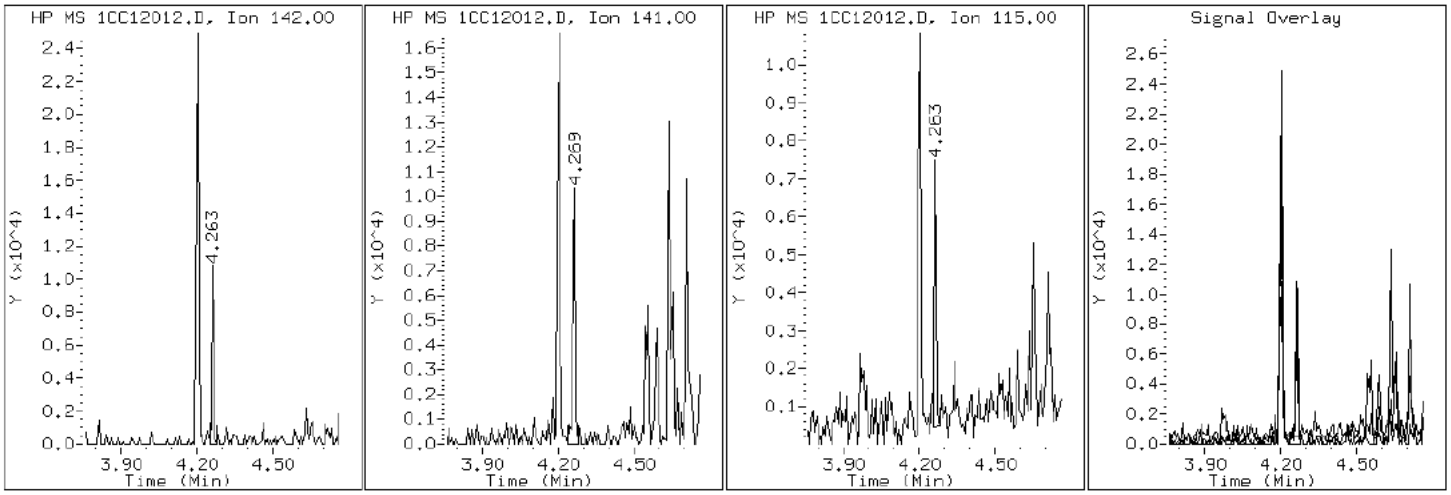
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

4 1-Methylnaphthalene



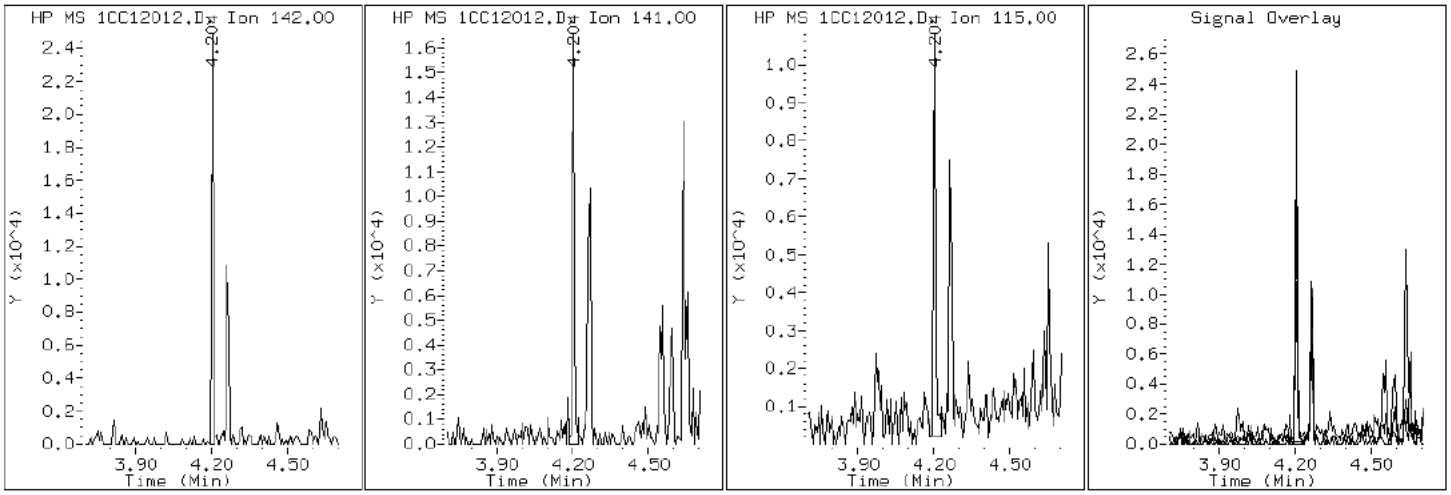
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

3 2-Methylnaphthalene



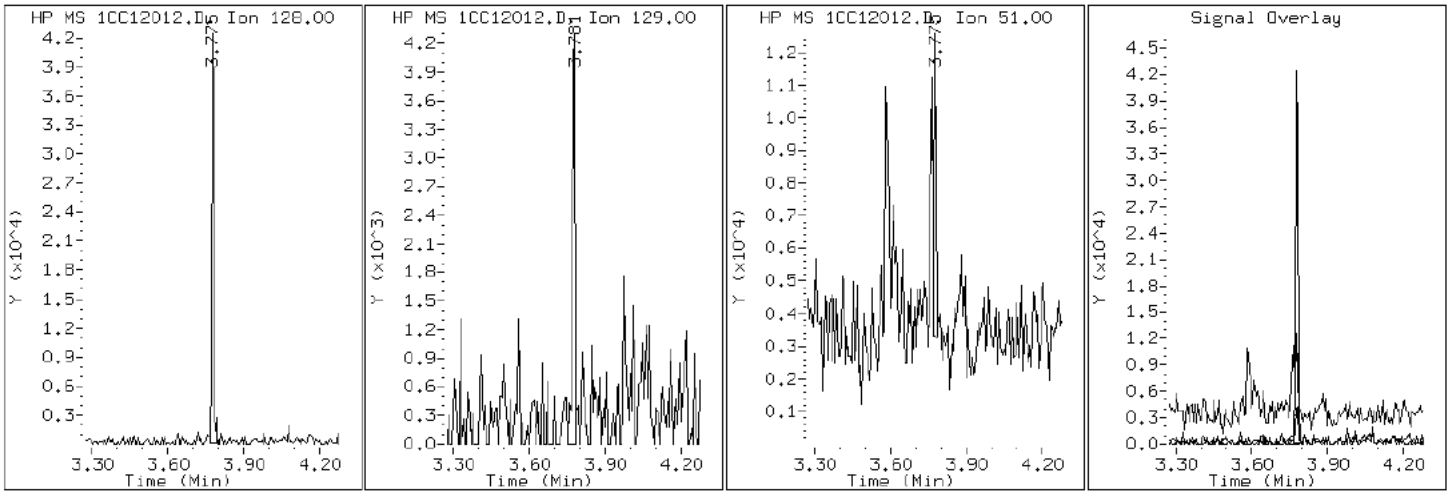
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

2 Naphthalene



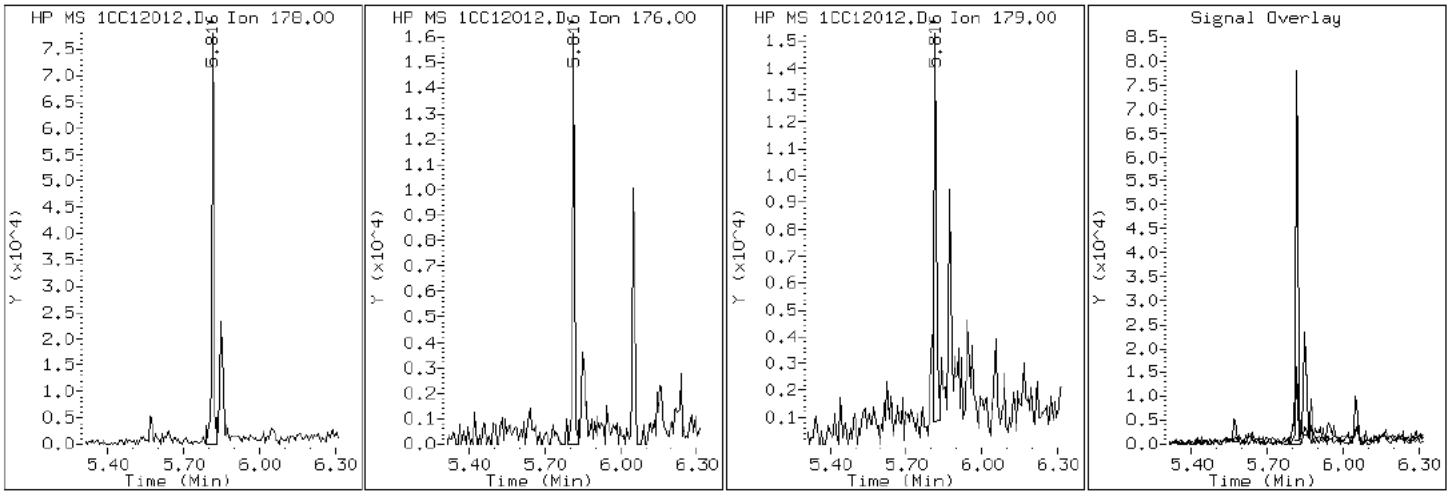
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

11 Phenanthrene



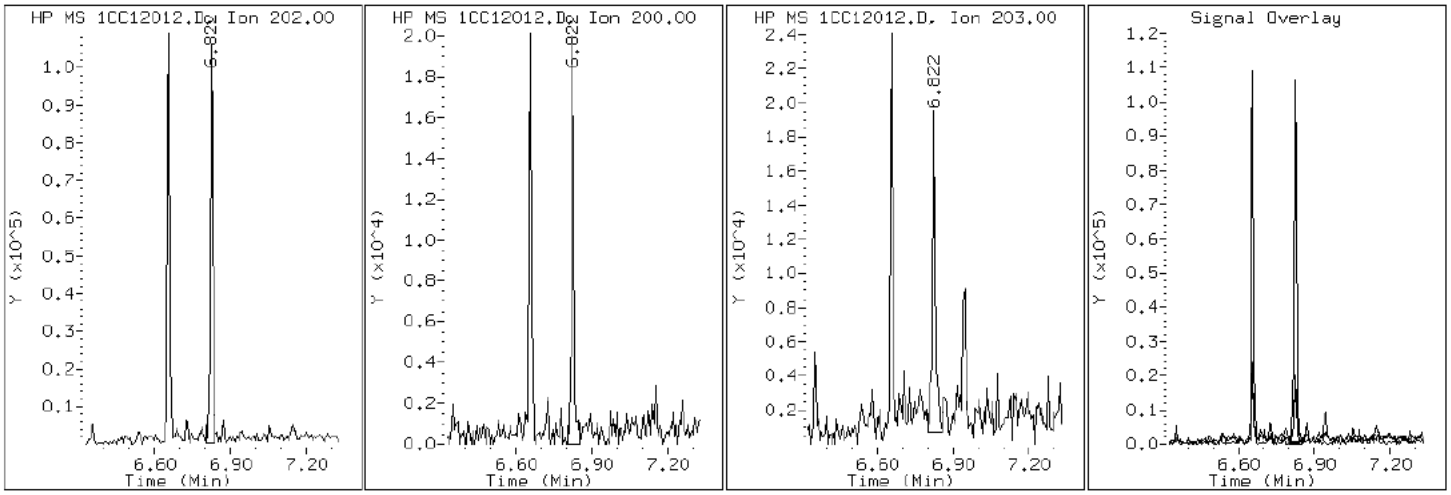
Data File: 1CC12012.D

Date: 12-MAR-2013 15:35

Client ID: HP0138B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88065-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12012.D
Inj. Date and Time: 12-MAR-2013 15:35
Instrument ID: BSMC5973.i
Client ID: HP0138B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

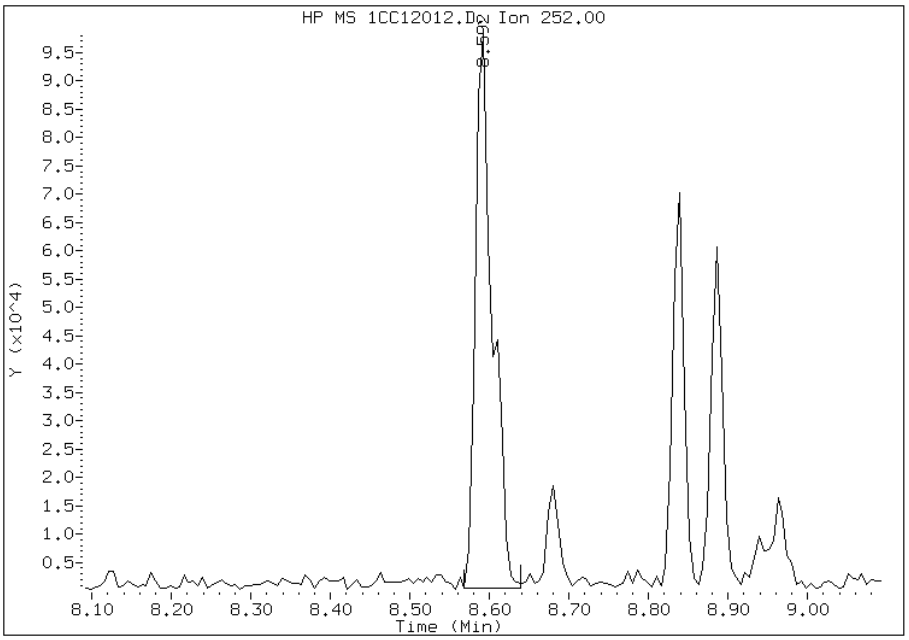
Processing Integration Results

RT: 8.59

Response: 146333

Amount: 3

Conc: 239



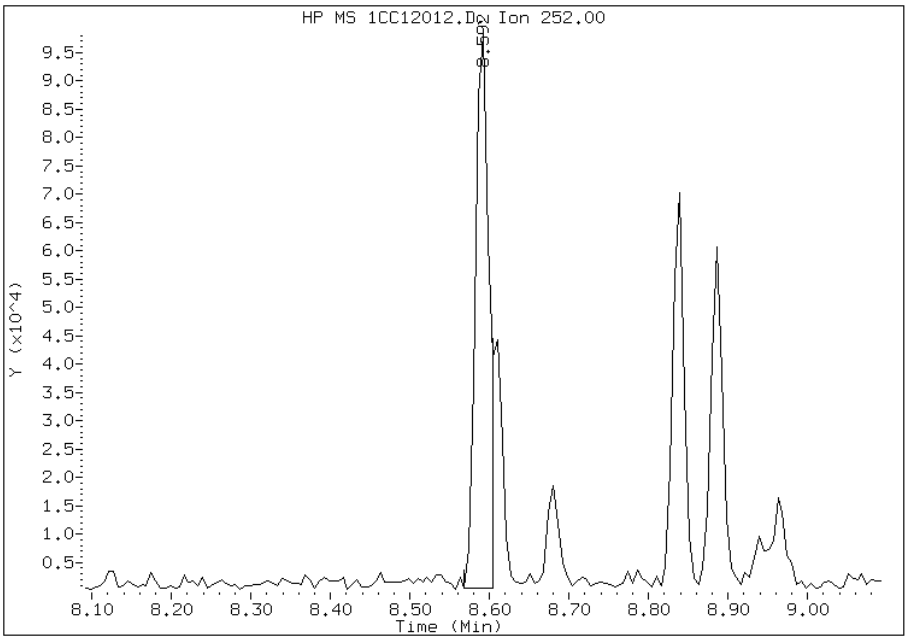
Manual Integration Results

RT: 8.59

Response: 116641

Amount: 2

Conc: 190



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12012.D
Inj. Date and Time: 12-MAR-2013 15:35
Instrument ID: BSMC5973.i
Client ID: HP0138B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

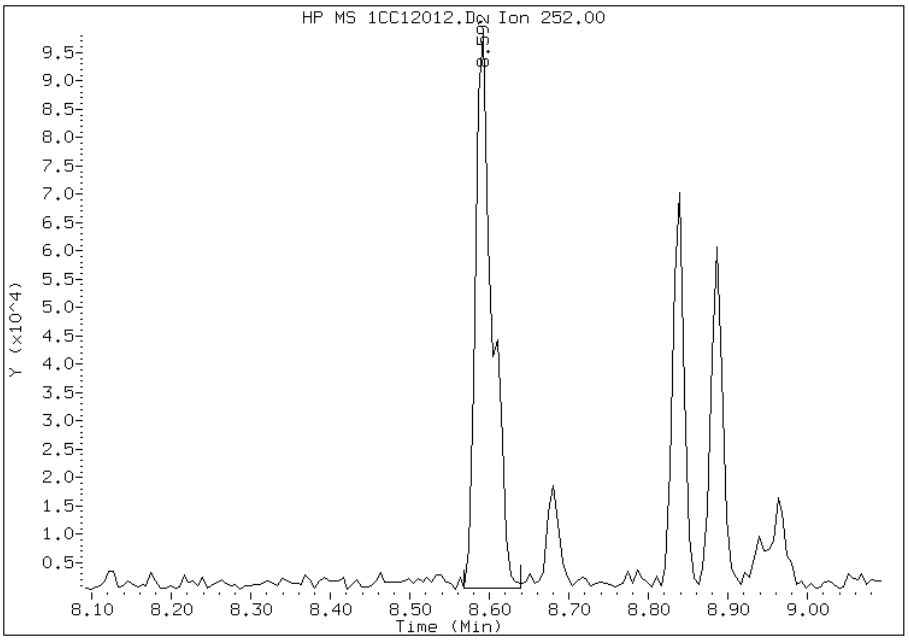
Processing Integration Results

RT: 8.59

Response: 146333

Amount: 3

Conc: 233



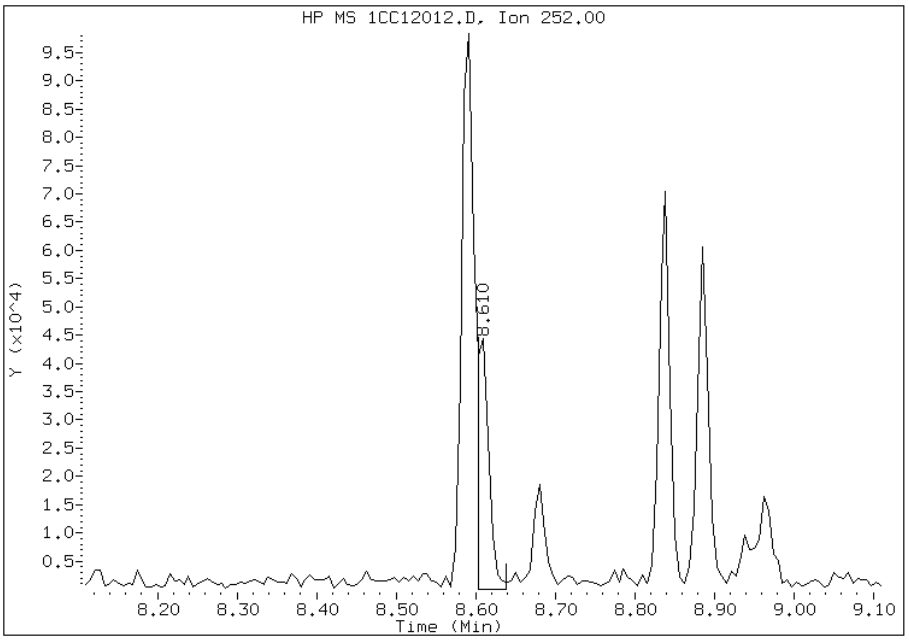
Manual Integration Results

RT: 8.61

Response: 45028

Amount: 1

Conc: 72



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12012.D
Inj. Date and Time: 12-MAR-2013 15:35
Instrument ID: BSMC5973.i
Client ID: HP0138B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/13/2013

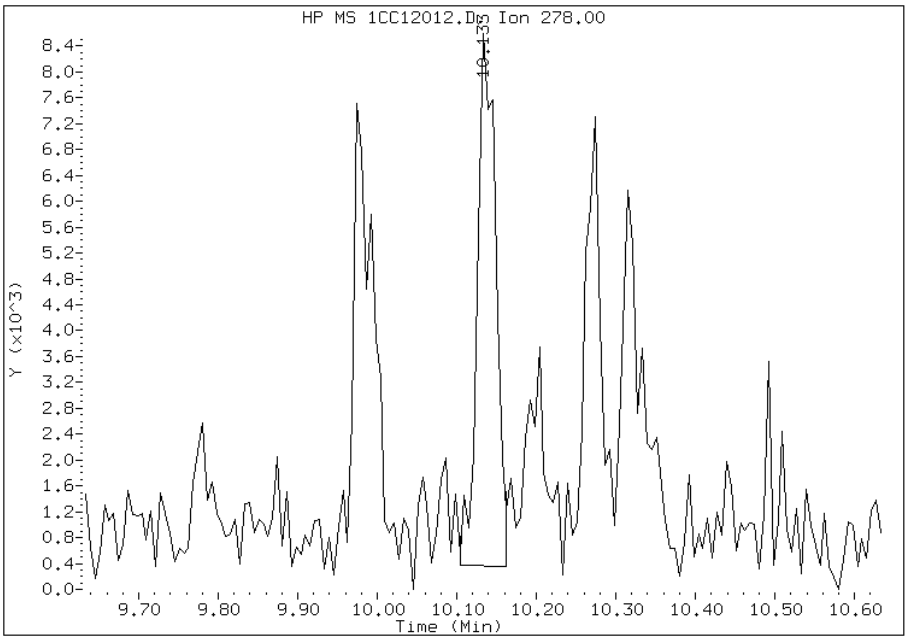
Processing Integration Results

RT: 10.13

Response: 13288

Amount: 0

Conc: 24



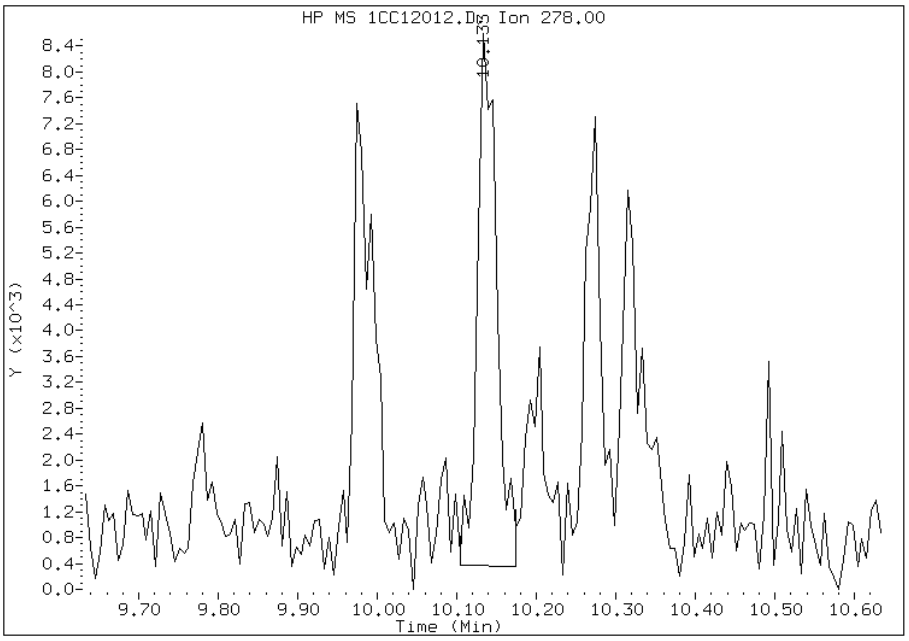
Manual Integration Results

RT: 10.13

Response: 13965

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12012.D
Inj. Date and Time: 12-MAR-2013 15:35
Instrument ID: BSMC5973.i
Client ID: HP0138B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

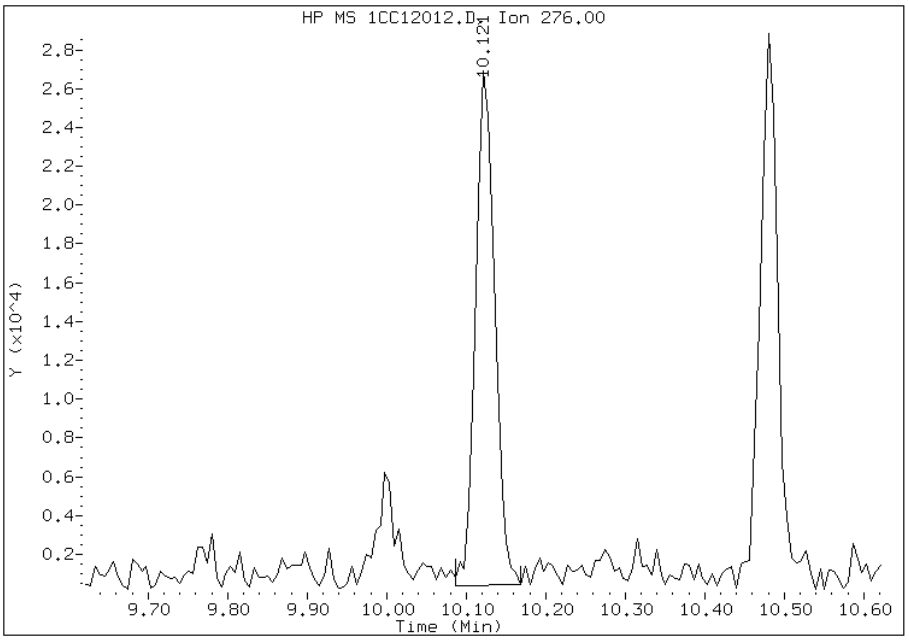
Processing Integration Results

RT: 10.12

Response: 44145

Amount: 1

Conc: 79



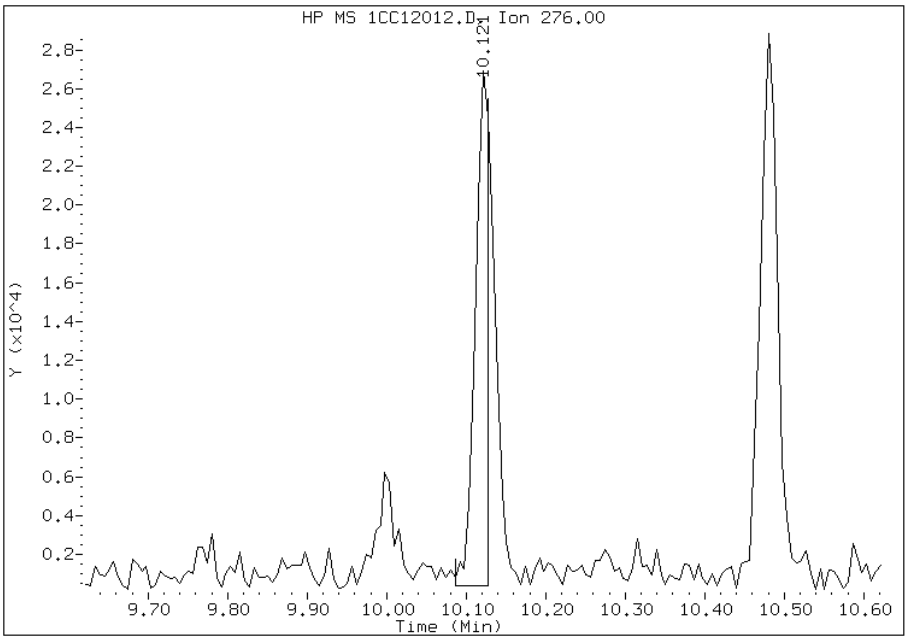
Manual Integration Results

RT: 10.12

Response: 31150

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: 030513-RB-Shovel | Lab Sample ID: 680-88065-26

Matrix: Water | Lab File ID: 1CC13008.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 13:41

Extract. Method: 3520C | Date Extracted: 03/11/2013 10:17

Sample wt/vol: 1065(mL) | Date Analyzed: 03/13/2013 13:30

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

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

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

Analysis Batch No.: 135360 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1.9	U	1.9	0.47
208-96-8	Acenaphthylene	0.94	U	0.94	0.23
120-12-7	Anthracene	0.19	U	0.19	0.071
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.047
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.054
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.047
191-24-2	Benzo[g,h,i]perylene	0.47	U *	0.47	0.094
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.054
218-01-9	Chrysene	0.19	U	0.19	0.065
53-70-3	Dibenz(a,h)anthracene	0.19	U *	0.19	0.047
206-44-0	Fluoranthene	0.47	U	0.47	0.051
86-73-7	Fluorene	1.9	U	1.9	0.47
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.047
90-12-0	1-Methylnaphthalene	1.9	U	1.9	0.47
91-57-6	2-Methylnaphthalene	1.9	U	1.9	0.47
91-20-3	Naphthalene	1.9	U	1.9	0.23
85-01-8	Phenanthrene	0.47	U	0.47	0.19
129-00-0	Pyrene	0.47	U	0.47	0.084

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13008.D
Lab Smp Id: 680-88065-A-26-A Client Smp ID: 030513-RB-Shovel
Inj Date : 13-MAR-2013 13:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-a-26-a
Misc Info : 680-88065-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 8
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	1065.000	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	3.757	3.757	(1.000)	944298	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	737393	40.0000	
* 10 Phenanthrene-d10	188	5.792	5.798	(1.000)	1409206	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.044)	172957	8.12897	7.6328
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1642859	40.0000	
* 23 Perylene-d12	264	8.927	8.933	(1.000)	1677534	40.0000	

Data File: 1CC13008.D

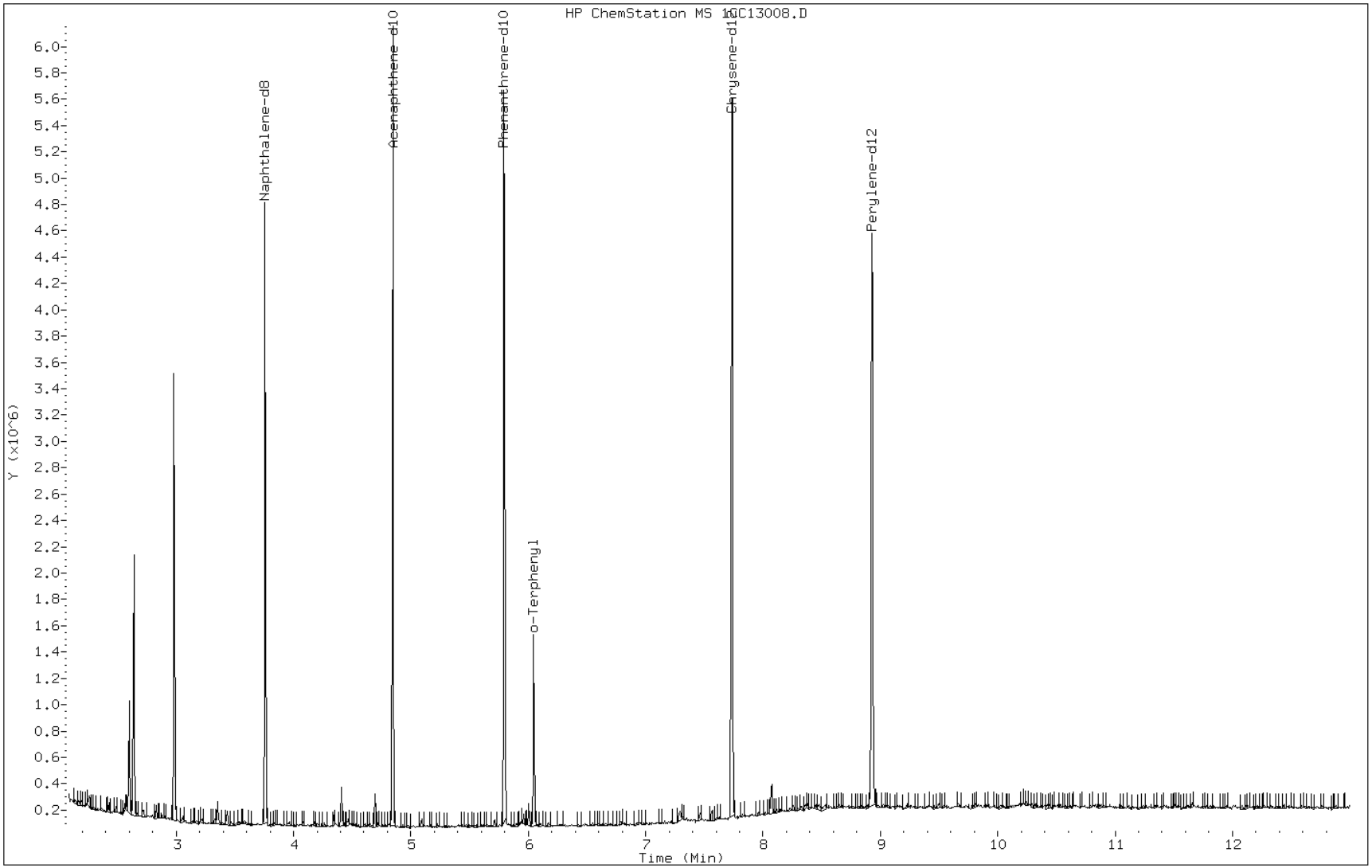
Date: 13-MAR-2013 13:30

Client ID: 030513-RB-Shovel

Instrument: BSMC5973.i

Sample Info: 680-88065-a-26-a

Operator: SCC



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

Lab Name: TestAmerica Tampa Job No.: 680-88065-1 Analy Batch No.: 134776

SDG No.: 68088065-1

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.: 680-88065-1 Analy Batch No.: 134776

SDG No.: 68088065-1

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.: 680-88065-1 Analy Batch No.: 134776

SDG No.: 68088065-1

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.: 680-88065-1 Analy Batch No.: 134776

SDG No.: 68088065-1

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

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

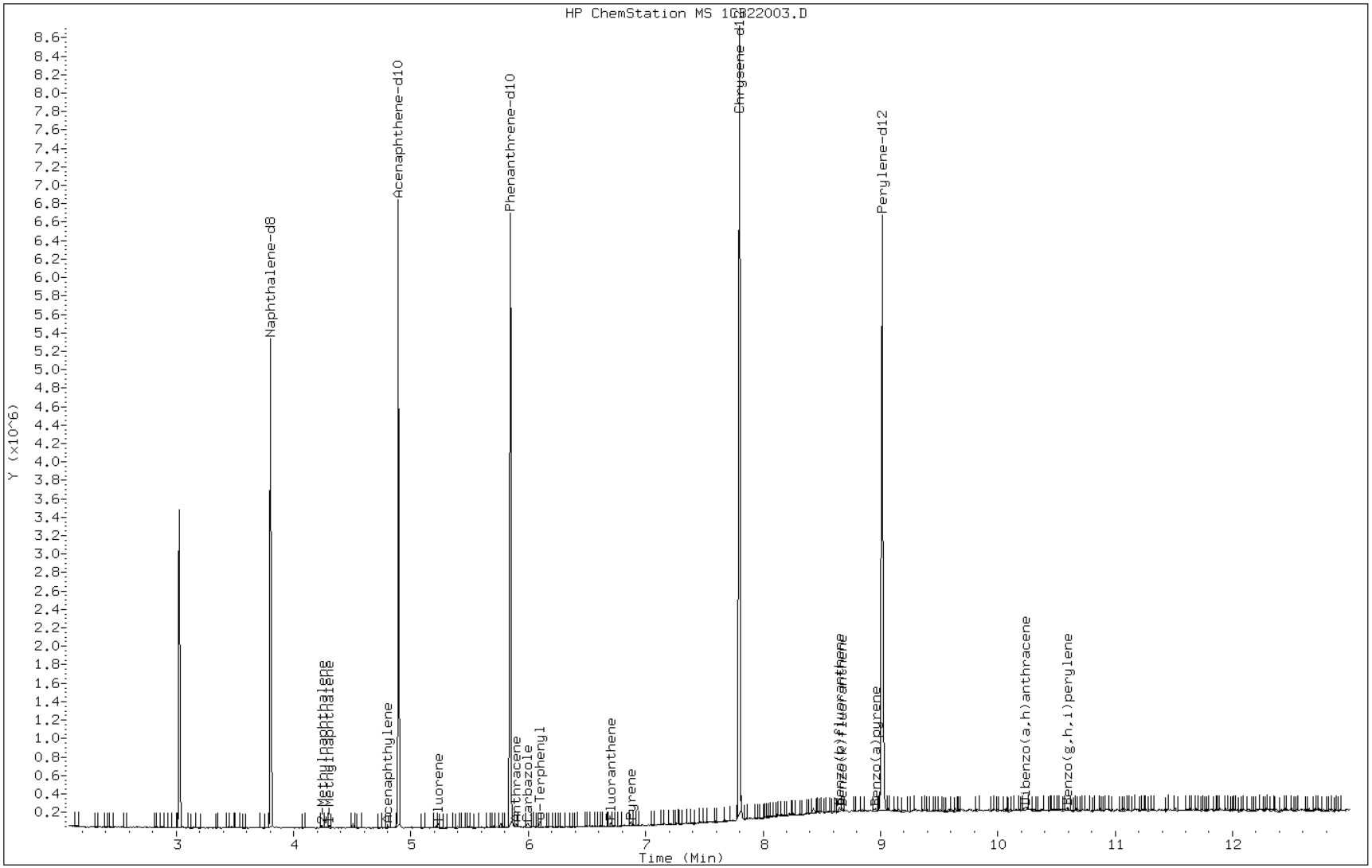
Date: 22-FEB-2013 11:57

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

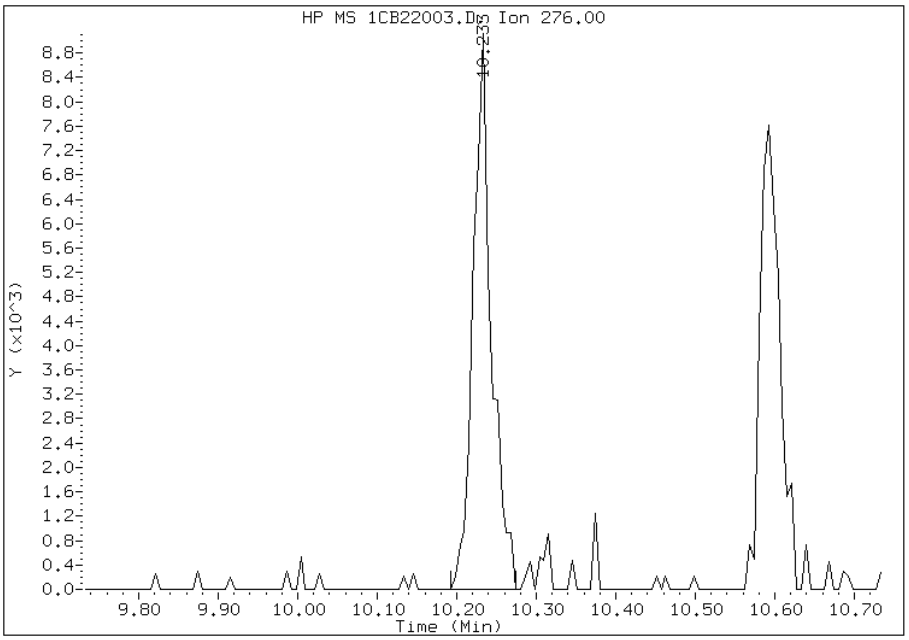
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



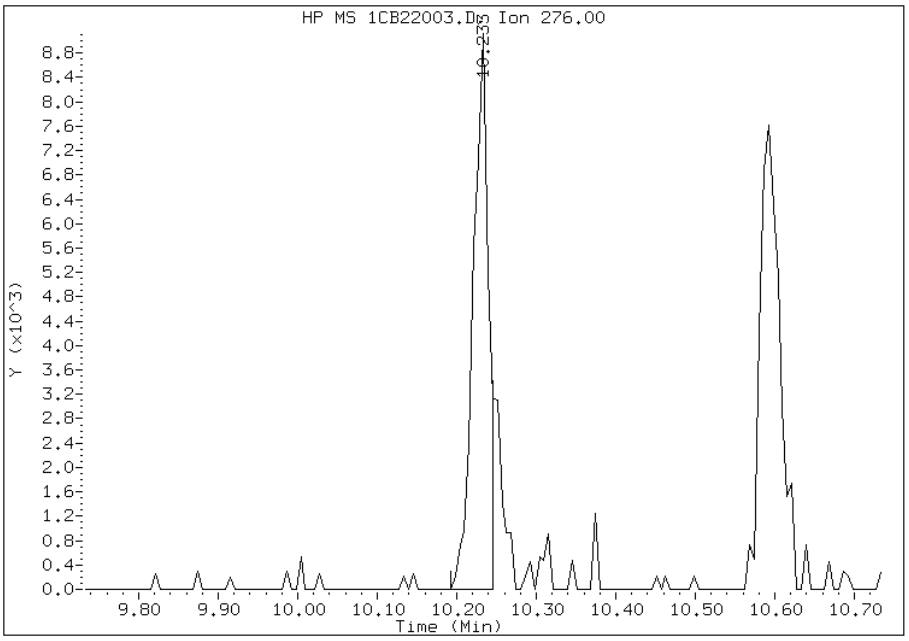
Manual Integration Results

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

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

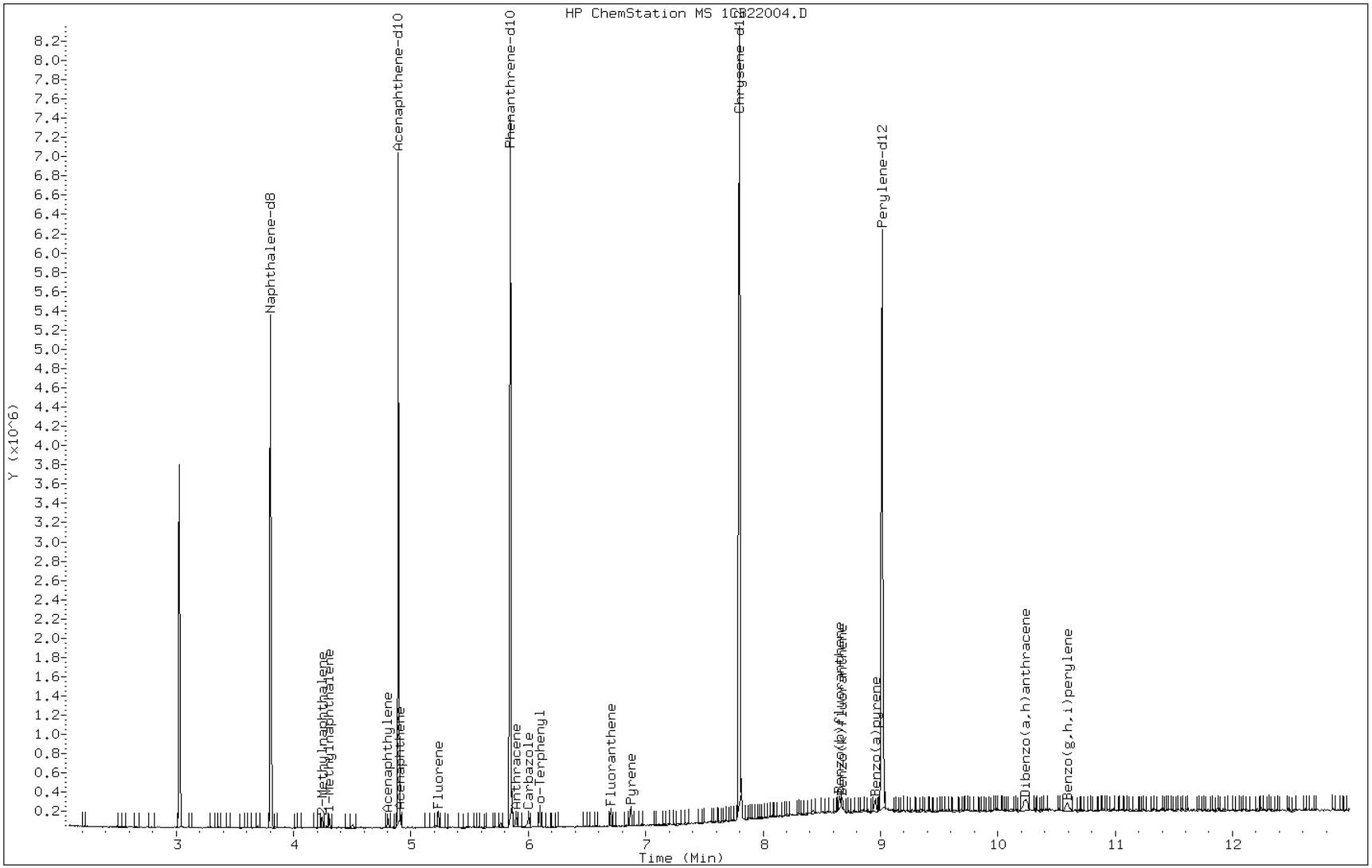
Date: 22-FEB-2013 12:16

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

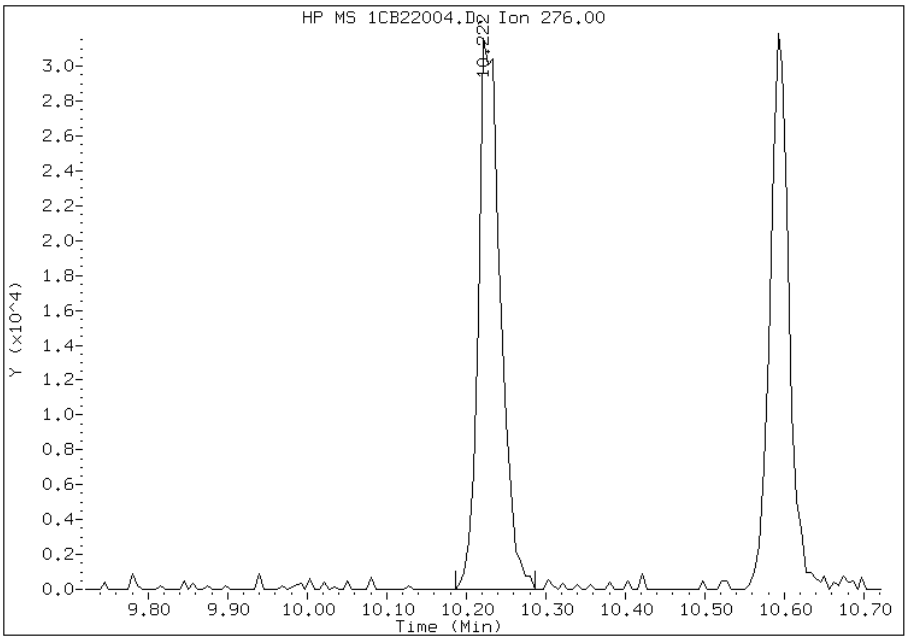
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



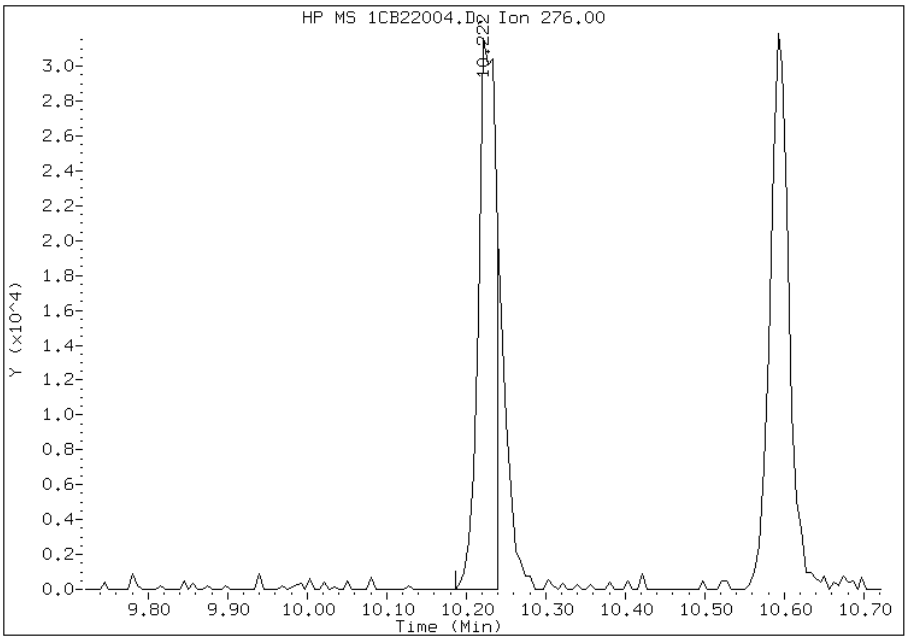
Manual Integration Results

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

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

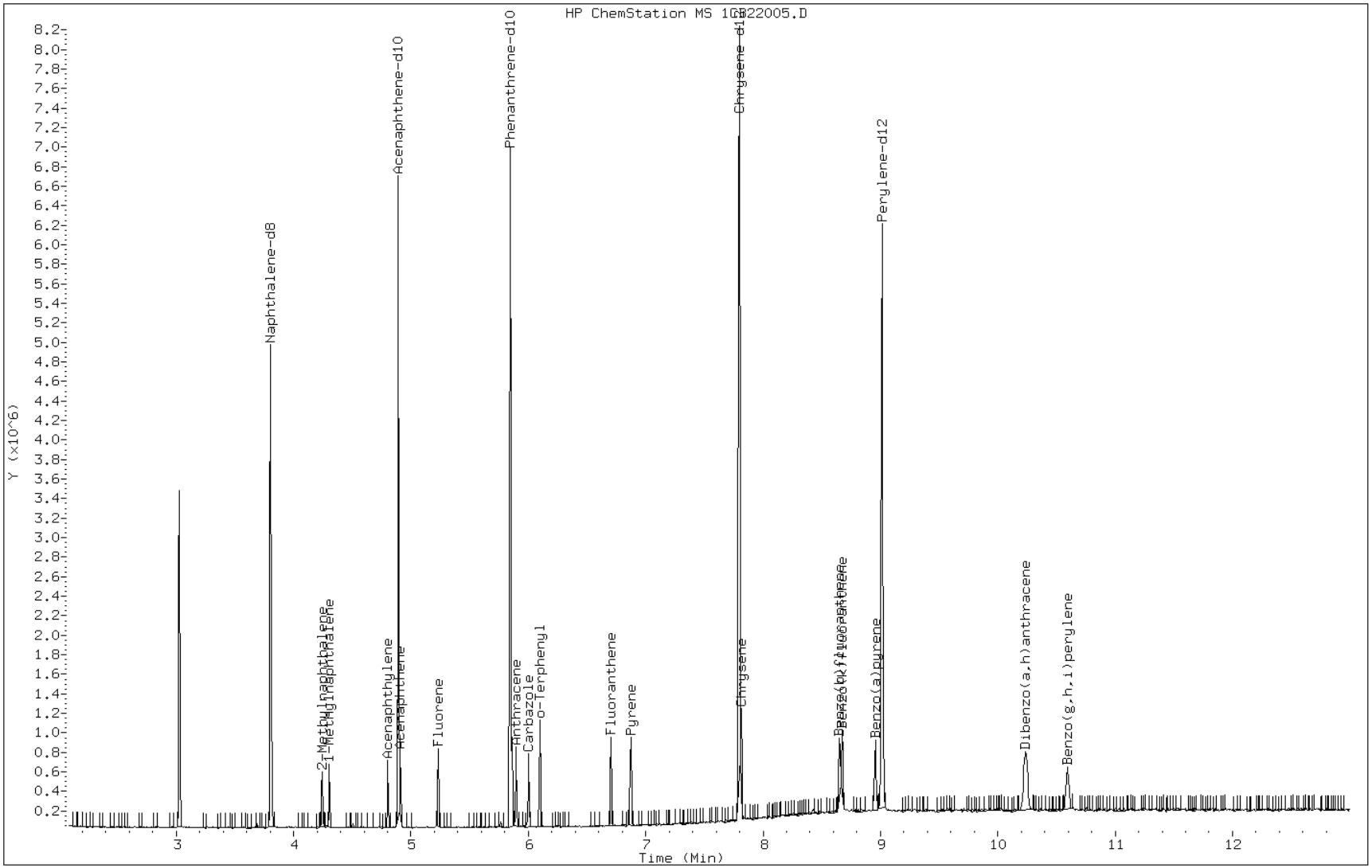
M - Compound response manually integrated.

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

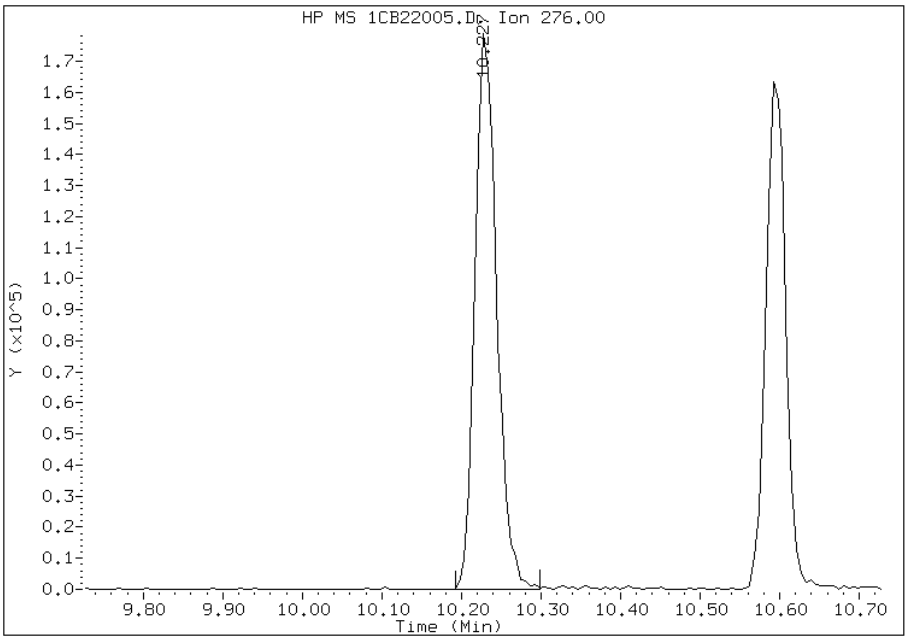
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



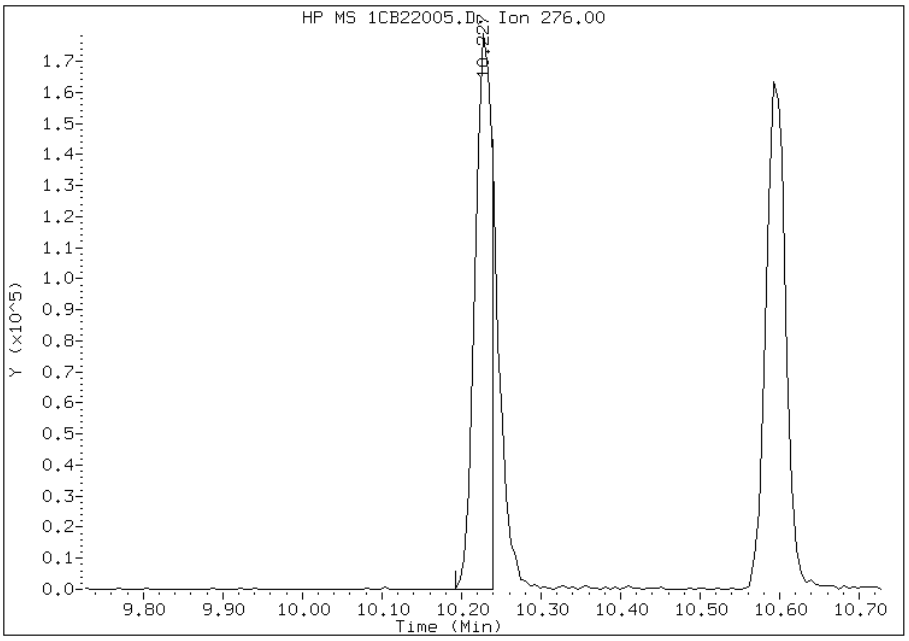
Manual Integration Results

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

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

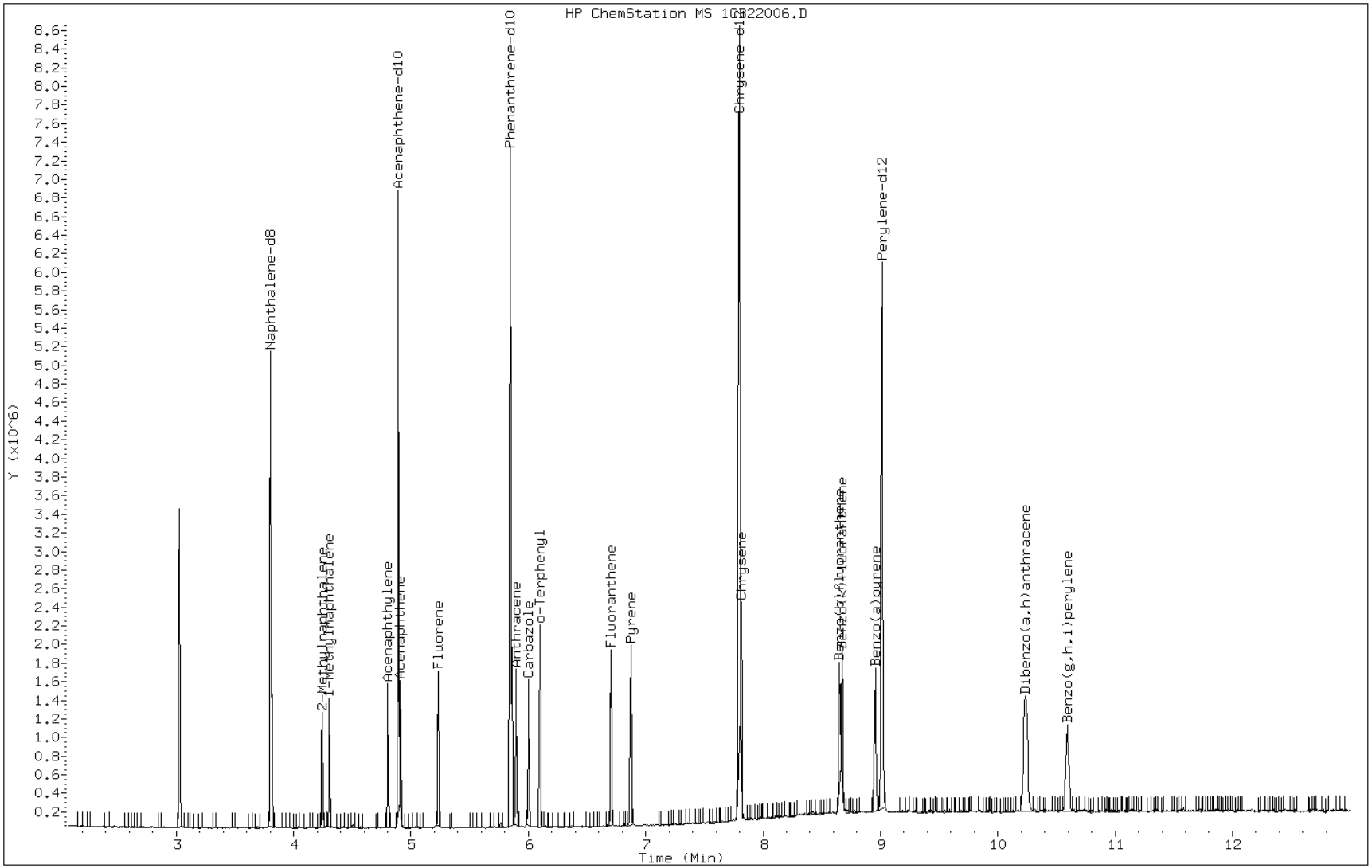
M - Compound response manually integrated.

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

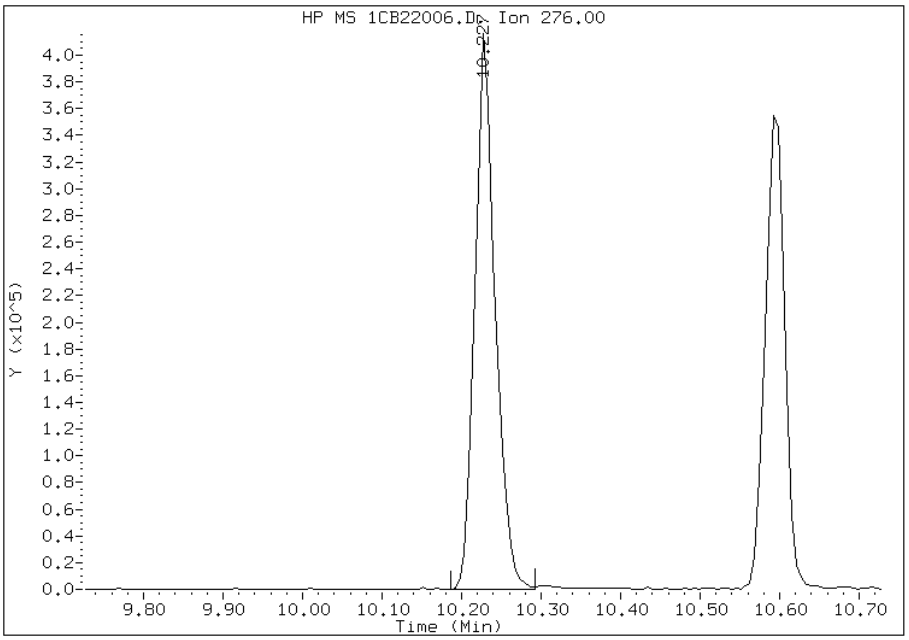
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



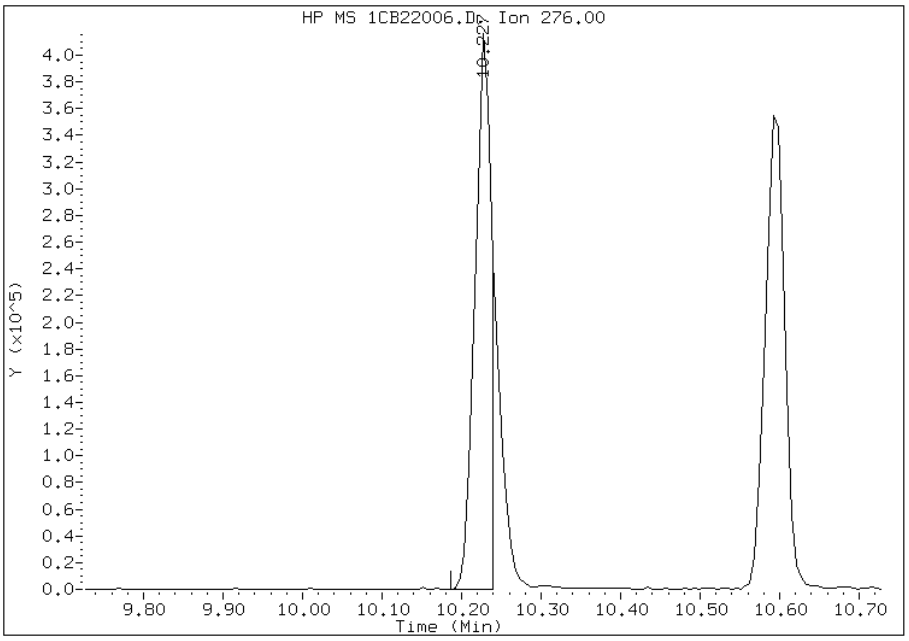
Manual Integration Results

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)	AMOUNTS 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

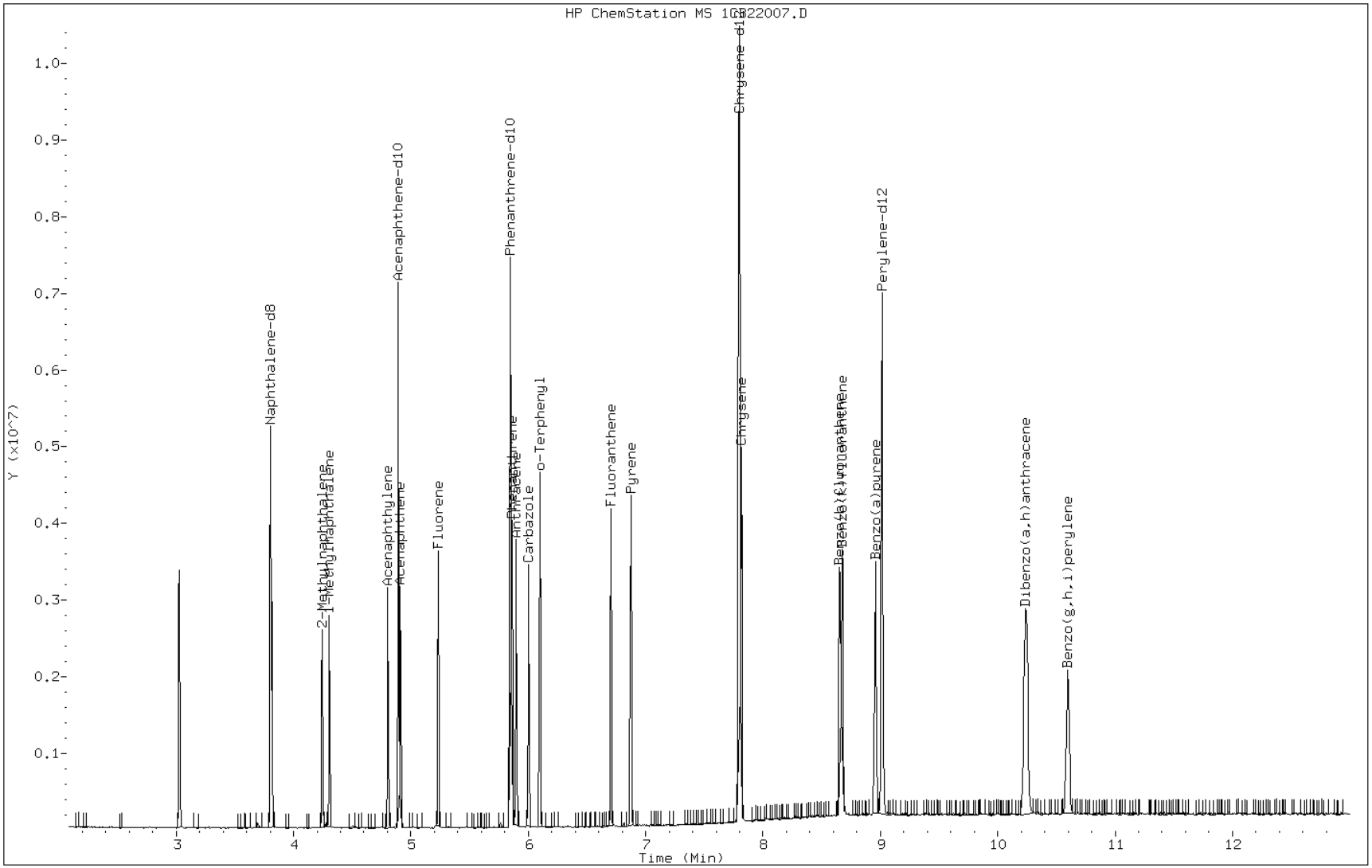
M - Compound response manually integrated.

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

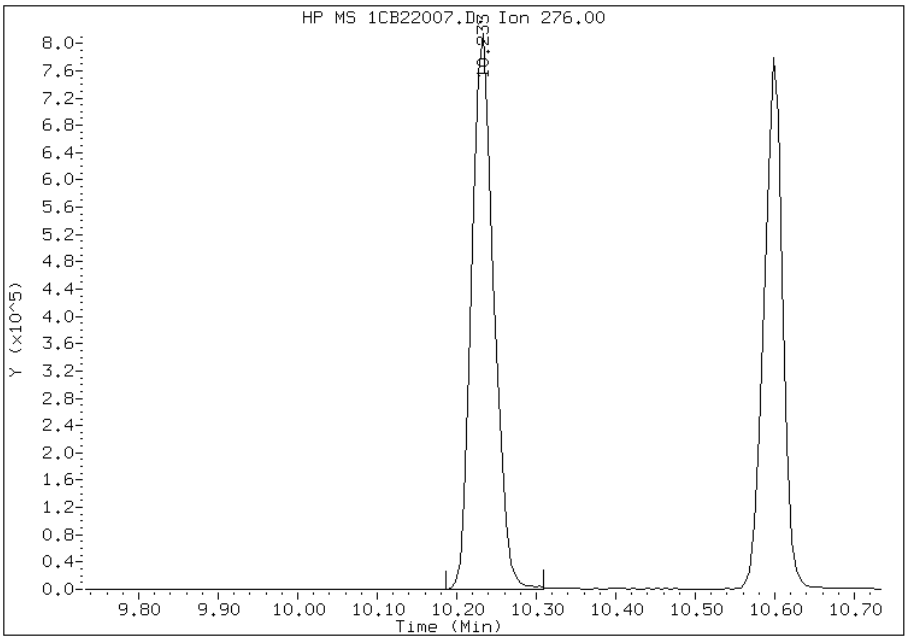
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



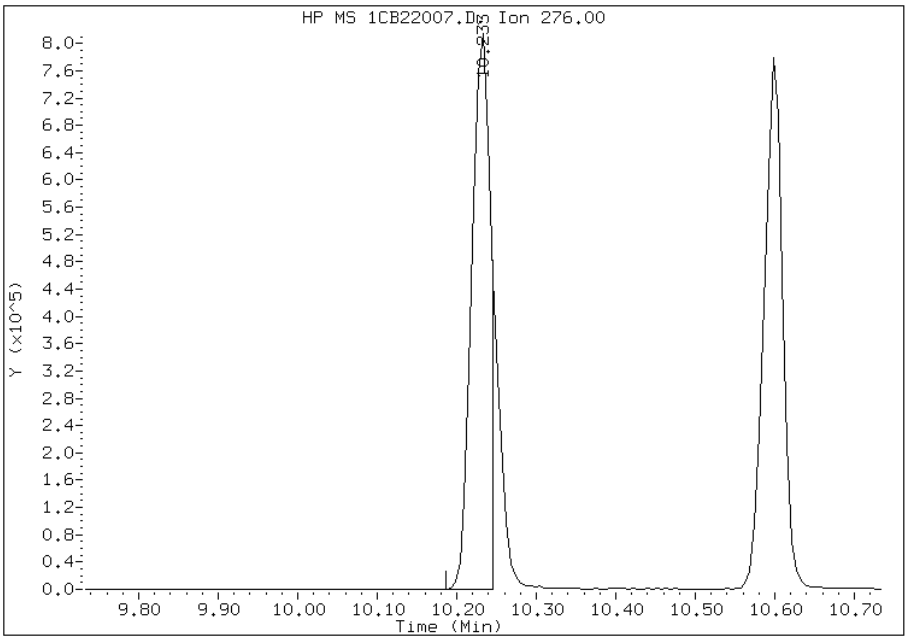
Manual Integration Results

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

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

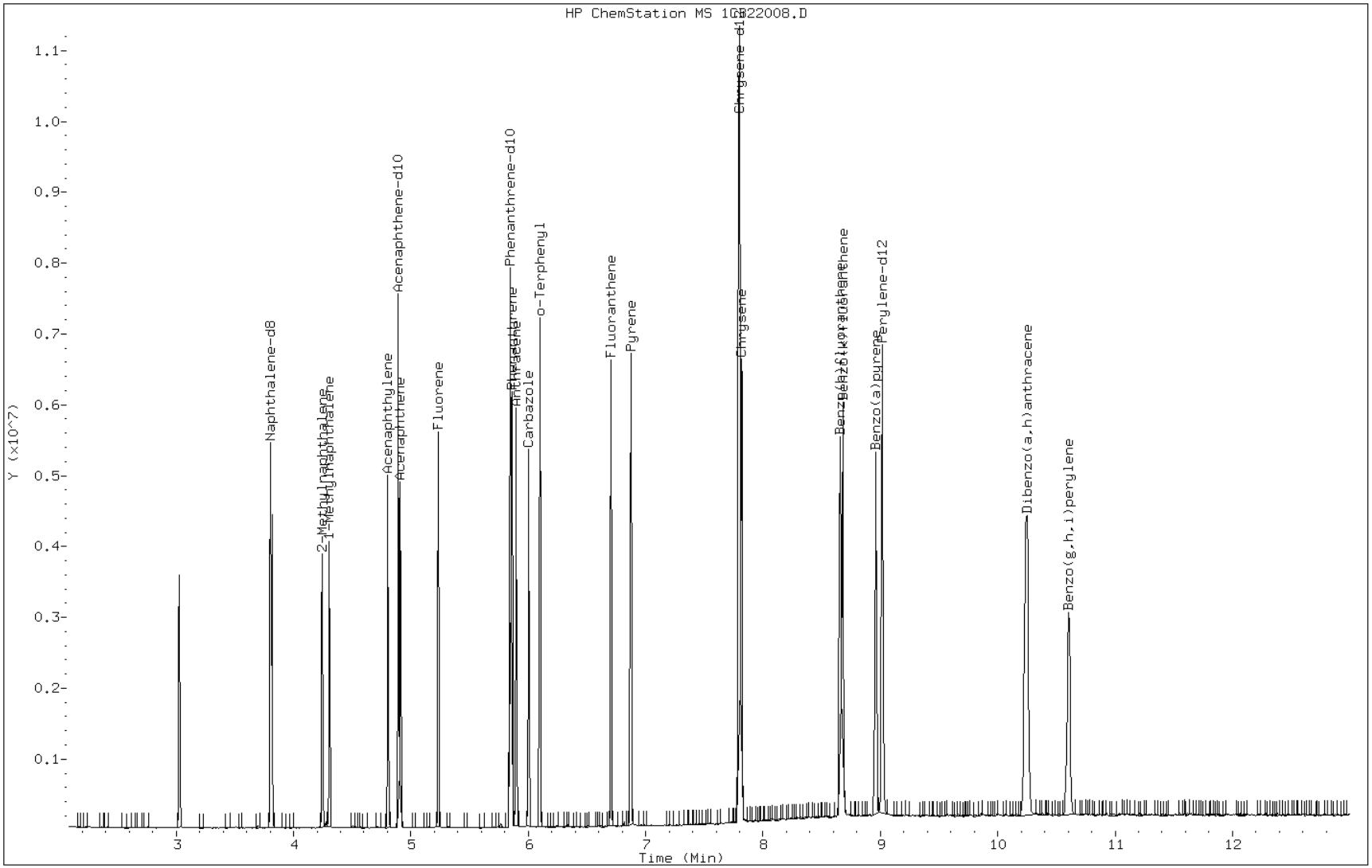
M - Compound response manually integrated.

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

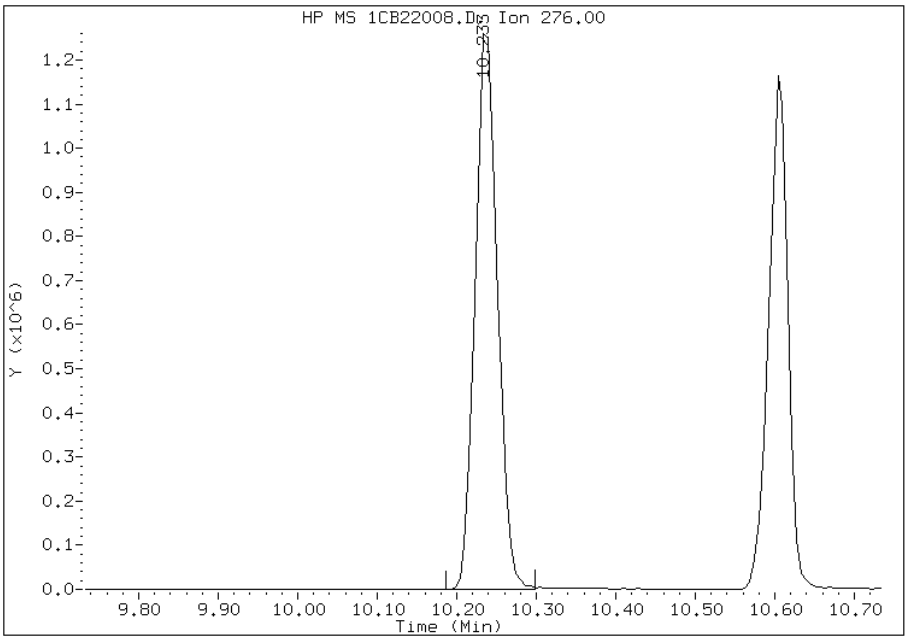
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



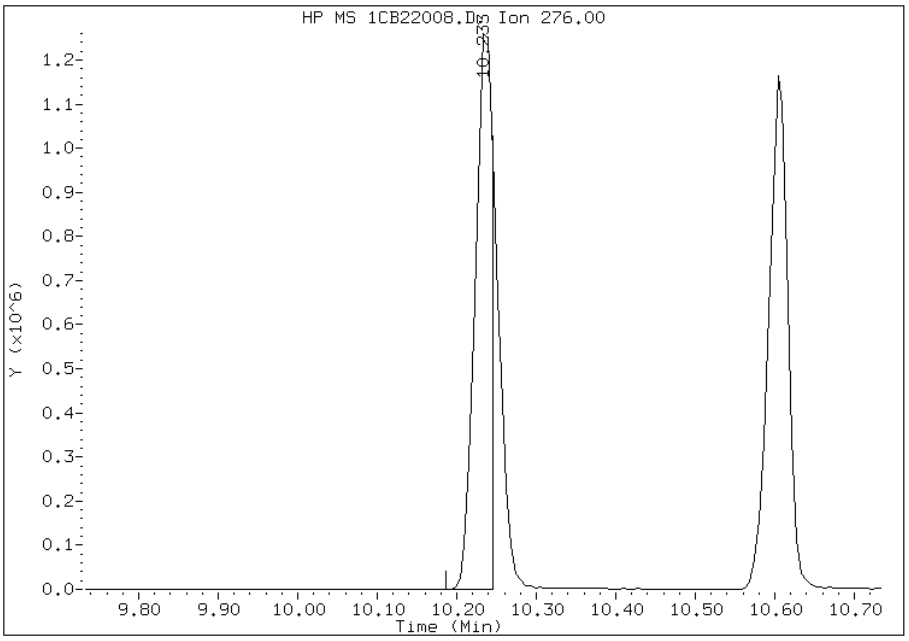
Manual Integration Results

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)	AMOUNTS 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

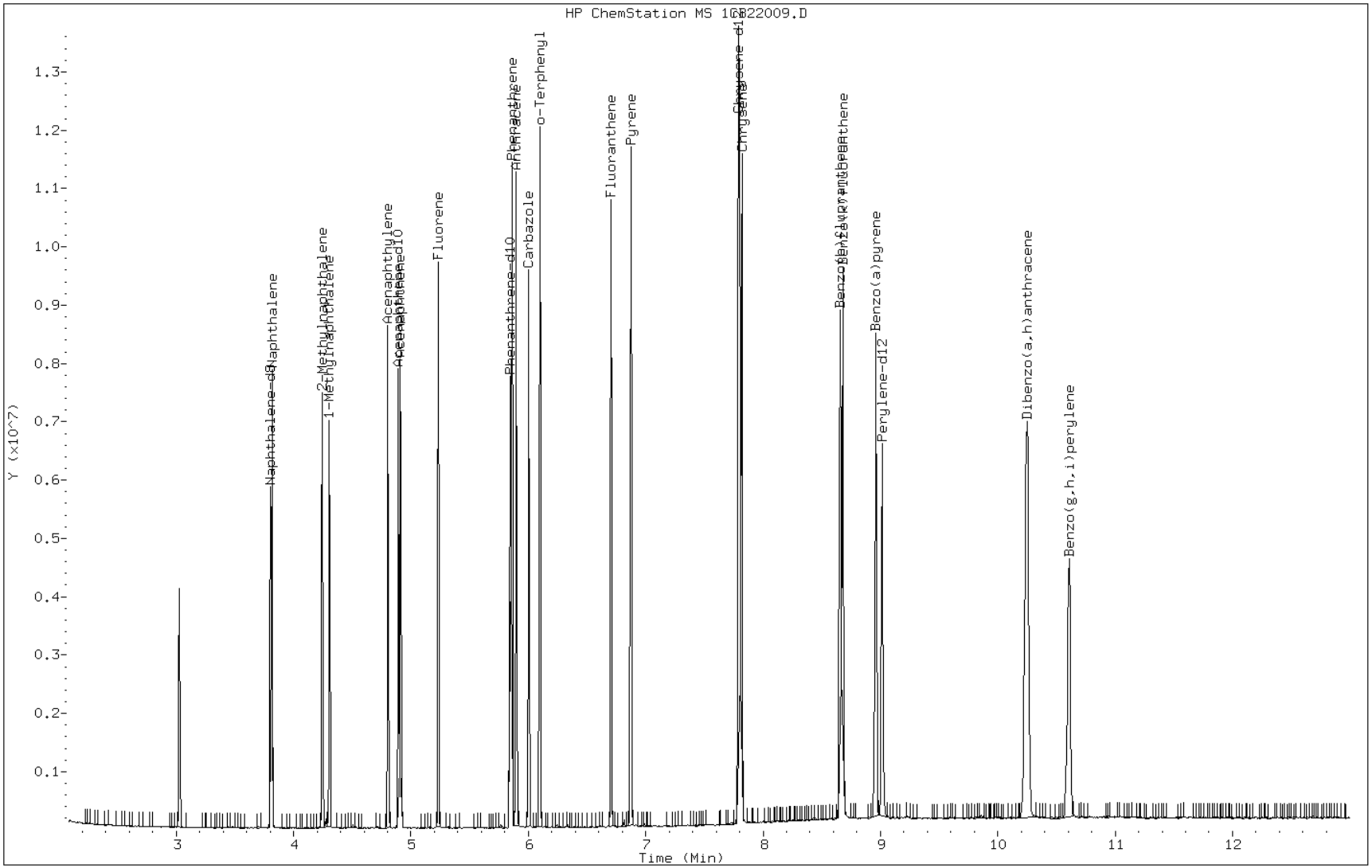
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

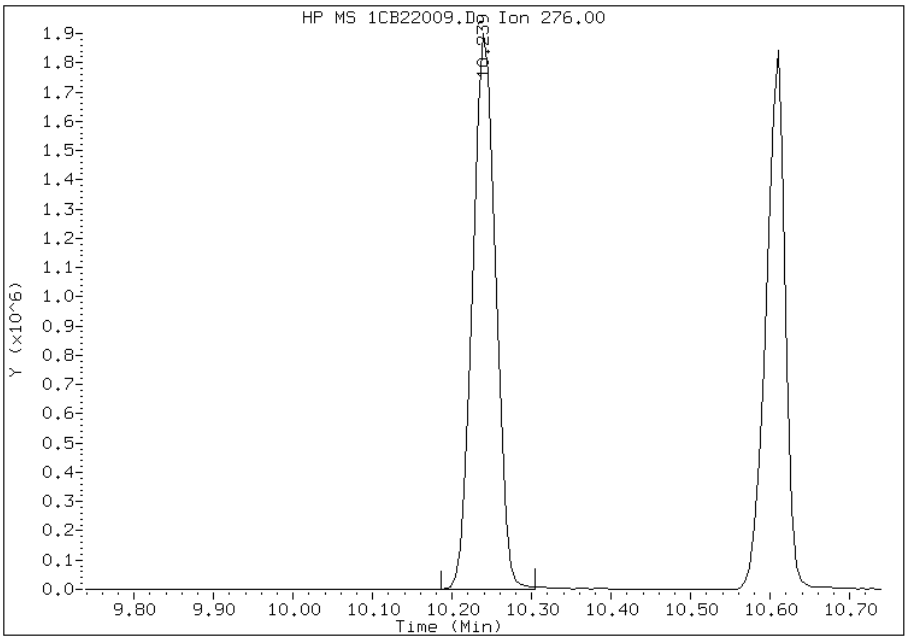
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



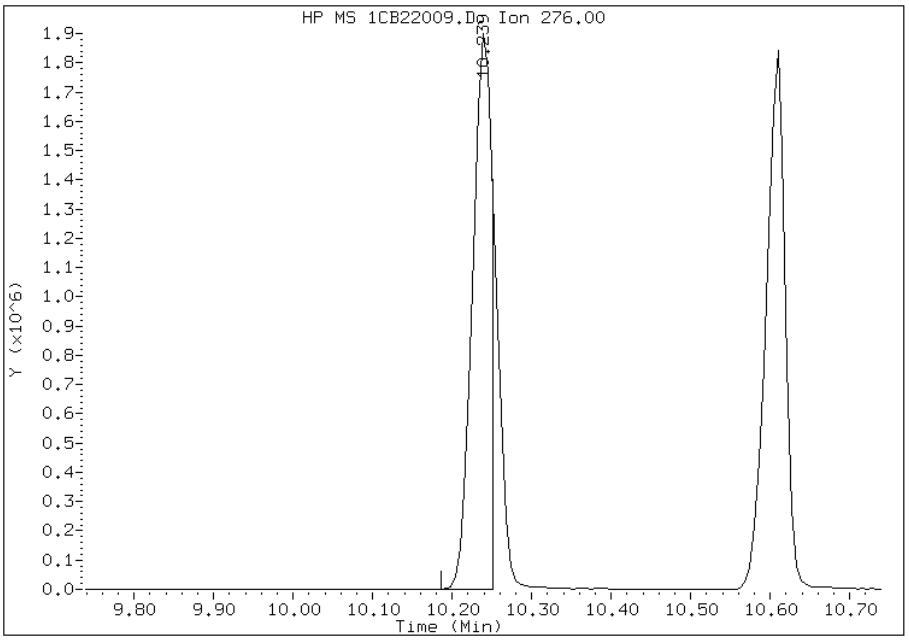
Manual Integration Results

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.: 680-88065-1 Analy Batch No.: 134781

SDG No.: 68088065-1

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.: 680-88065-1 Analy Batch No.: 134781

SDG No.: 68088065-1

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.: 680-88065-1 Analy Batch No.: 134781

SDG No.: 68088065-1

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.: 680-88065-1 Analy Batch No.: 134781

SDG No.: 68088065-1

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)	AMOUNTS 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

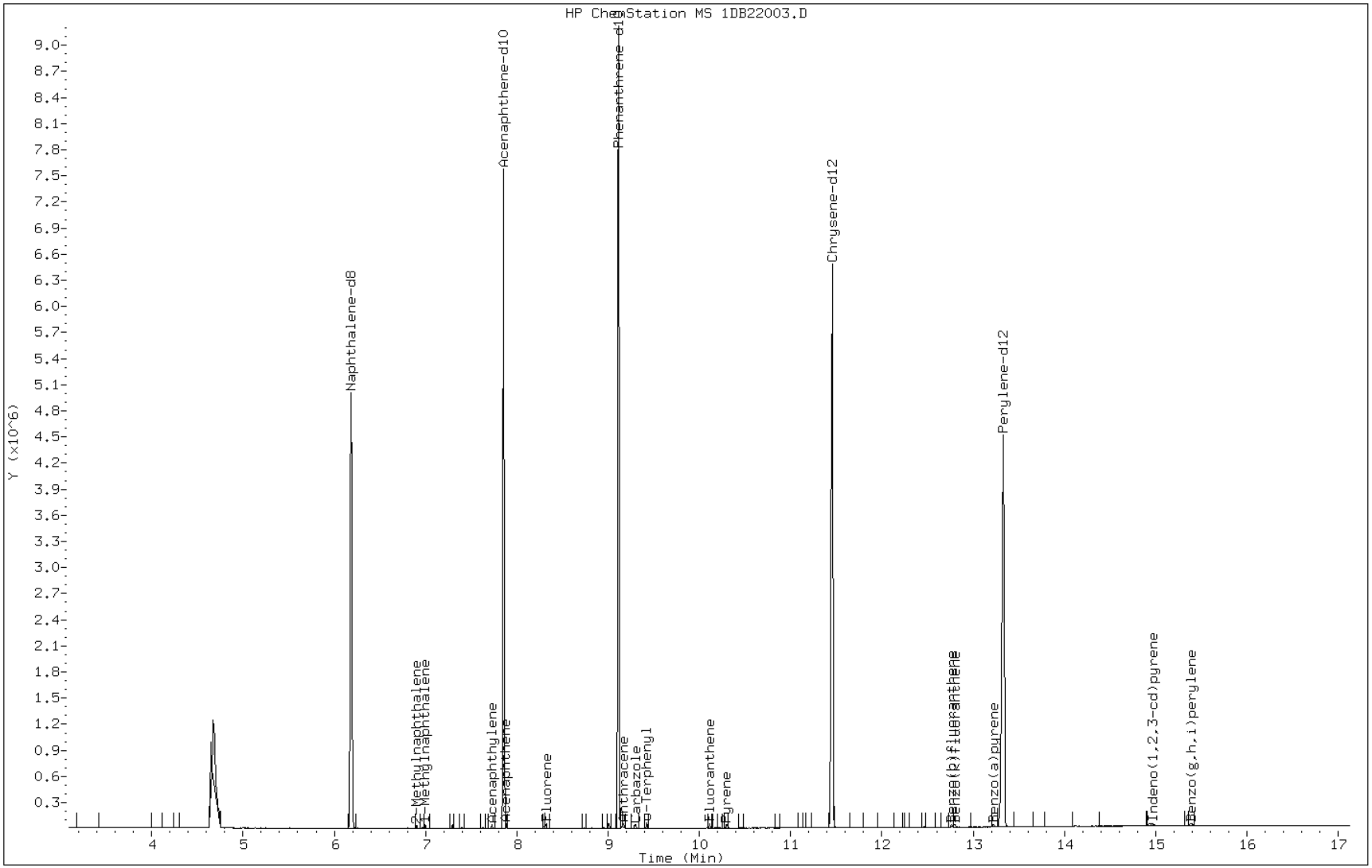
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

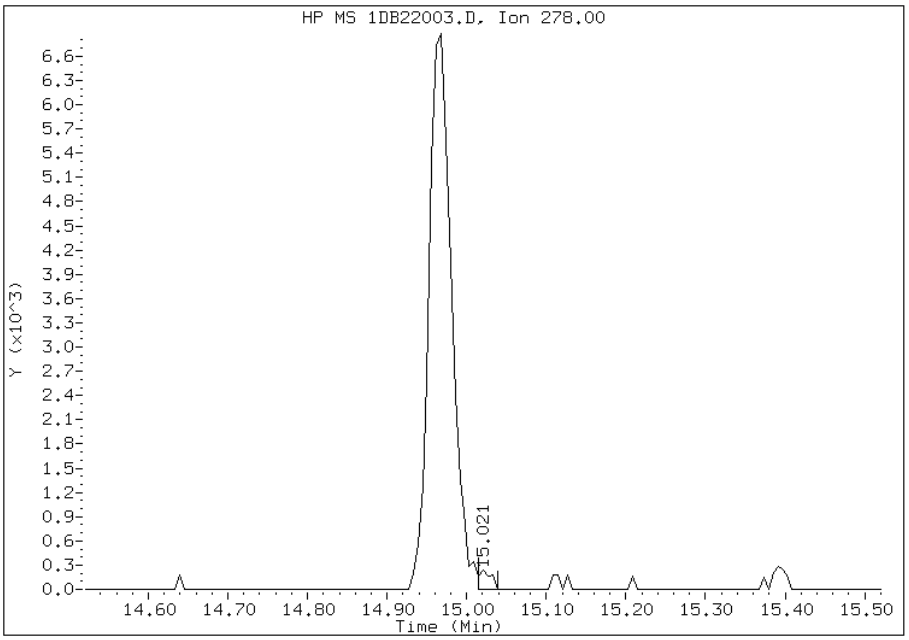
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



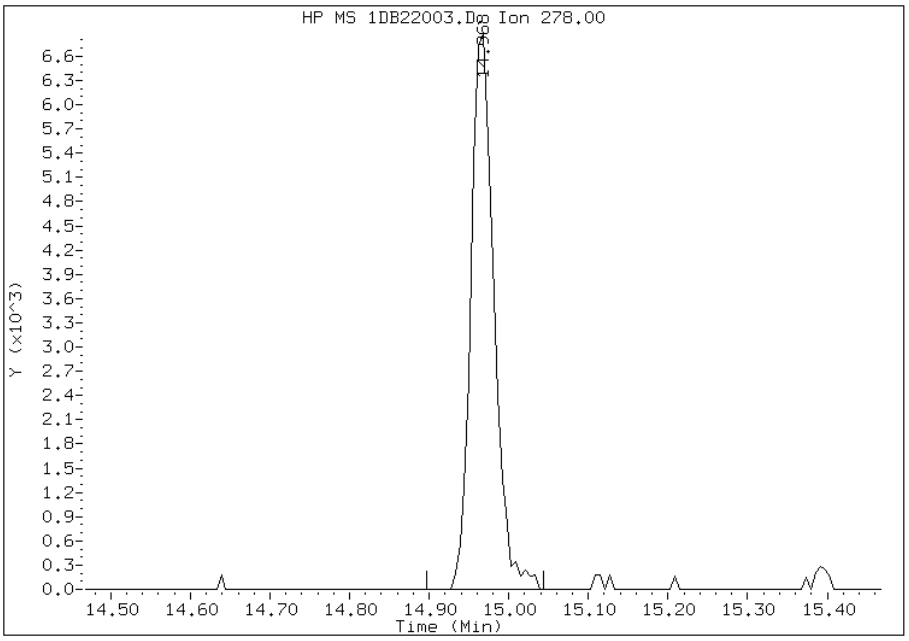
Manual Integration Results

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

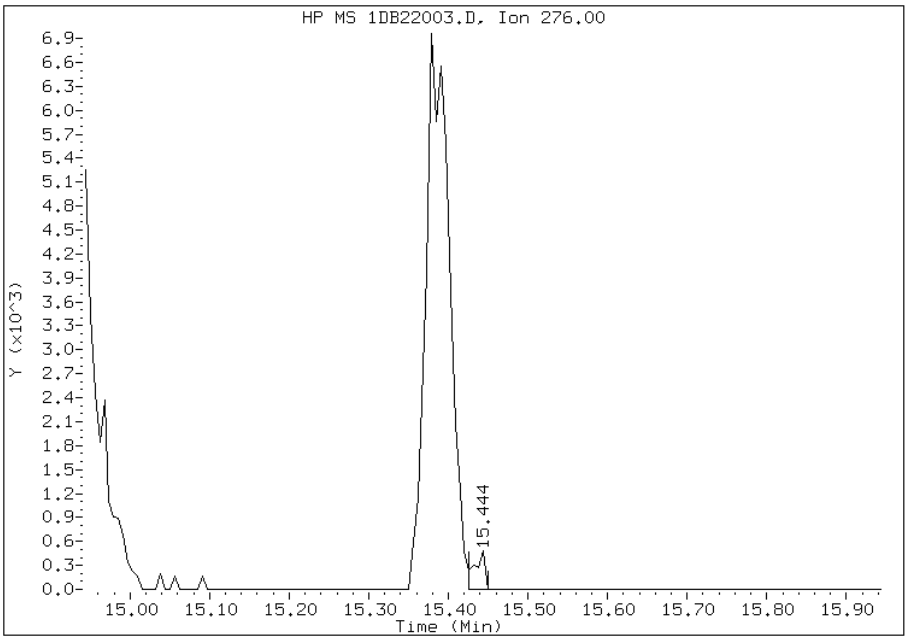
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



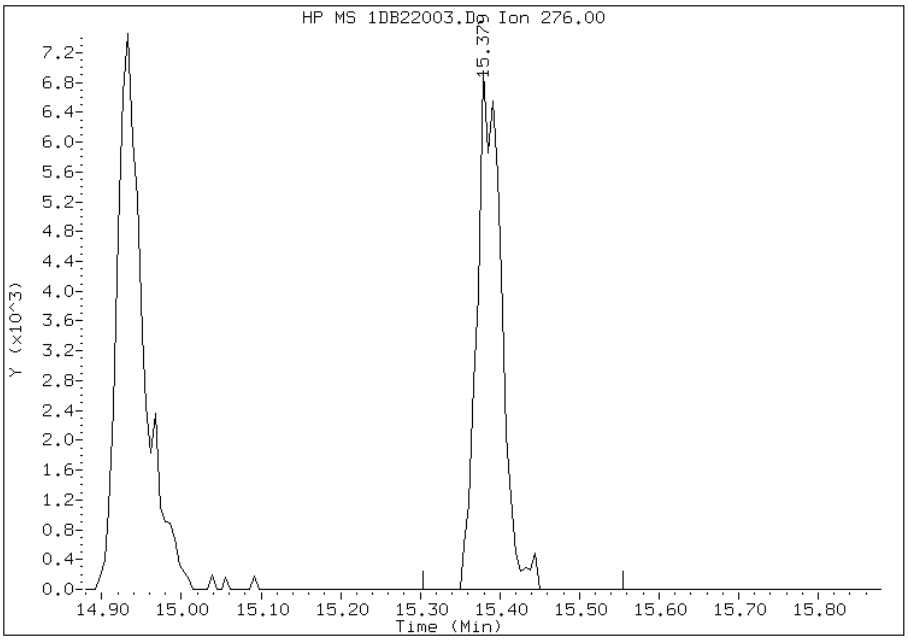
Manual Integration Results

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)	AMOUNTS 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

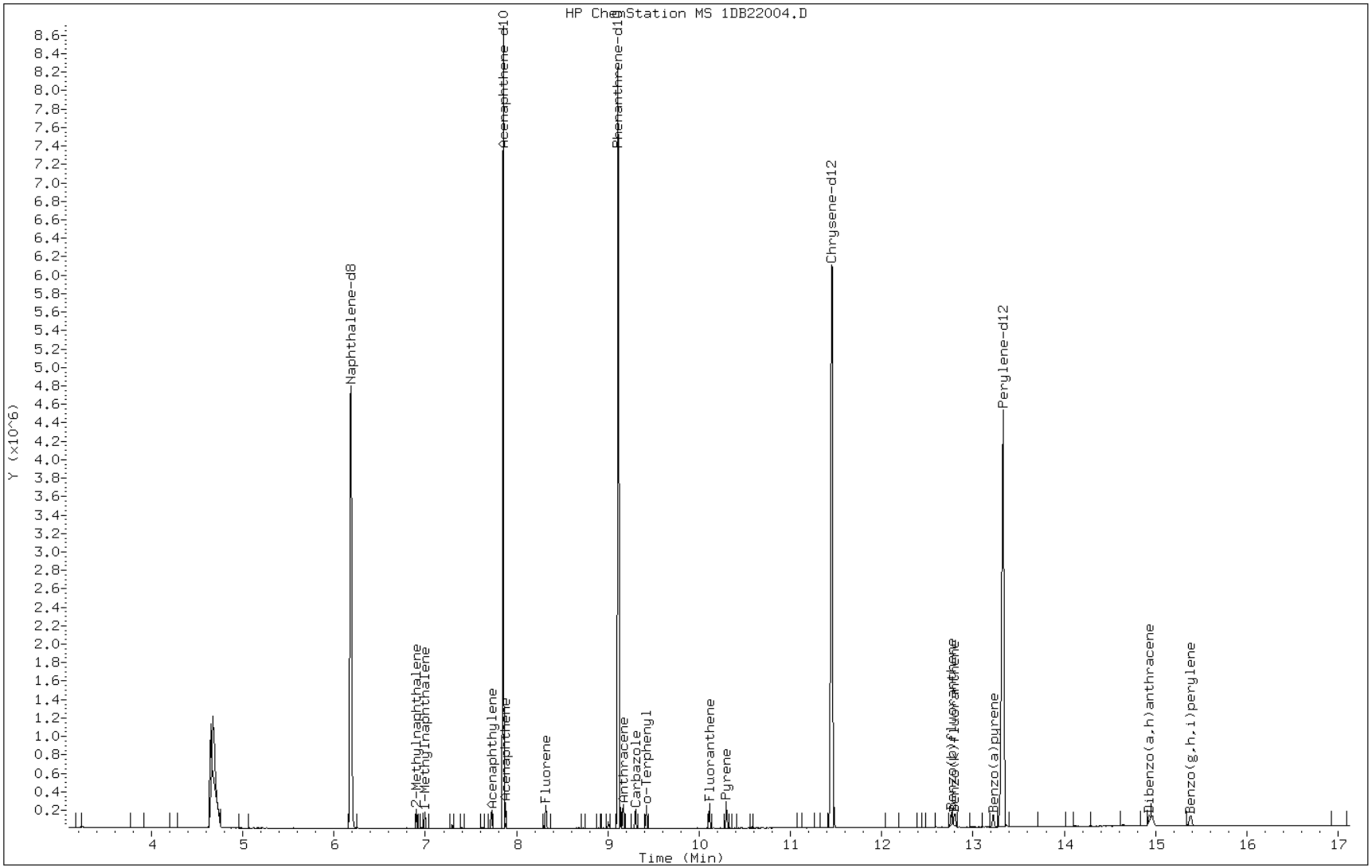
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

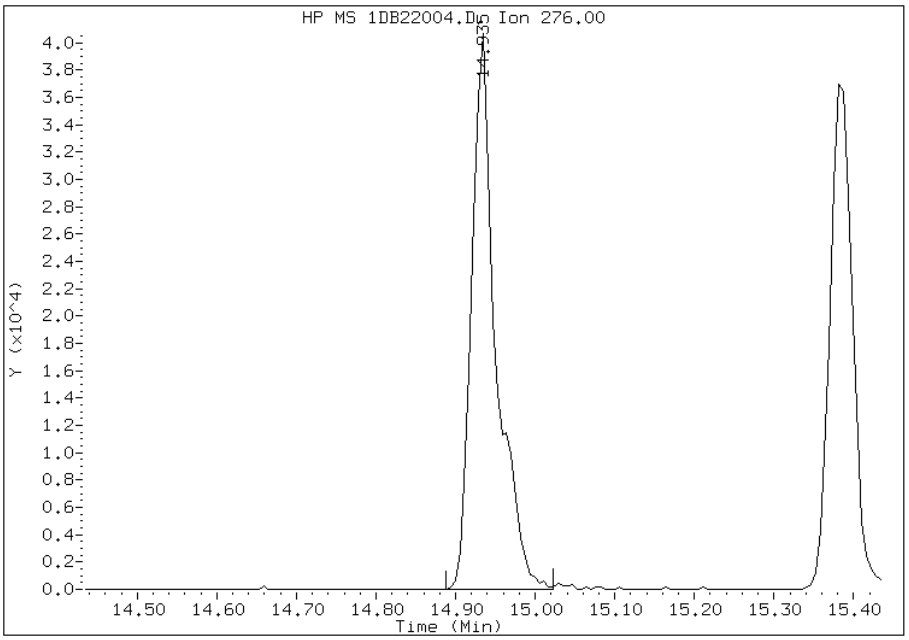
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



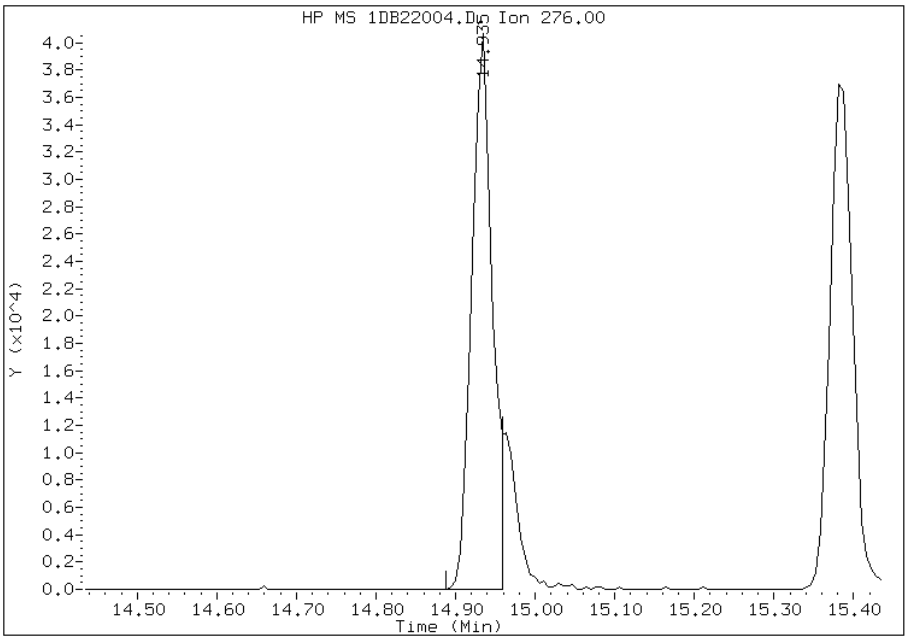
Manual Integration Results

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)	AMOUNTS 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

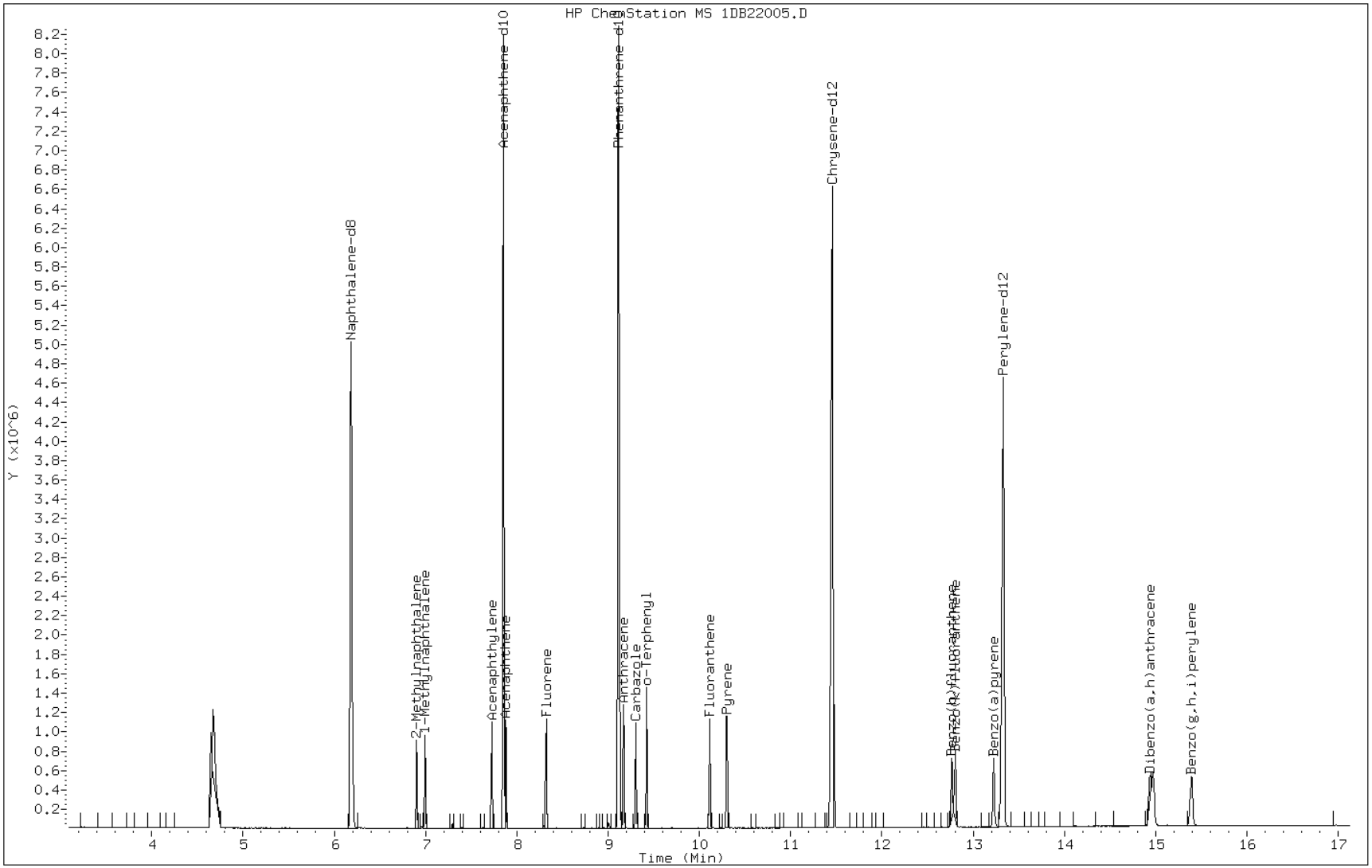
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

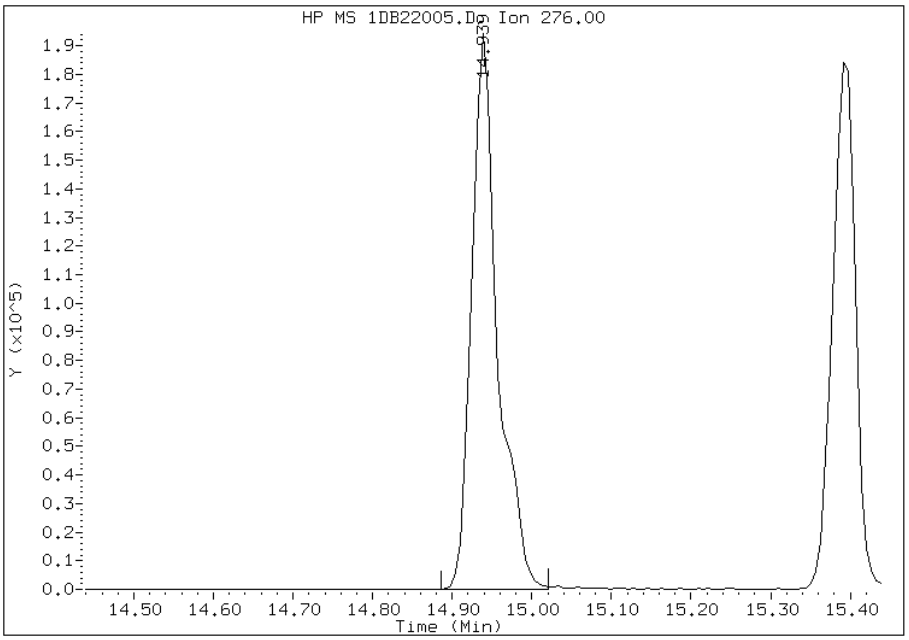
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



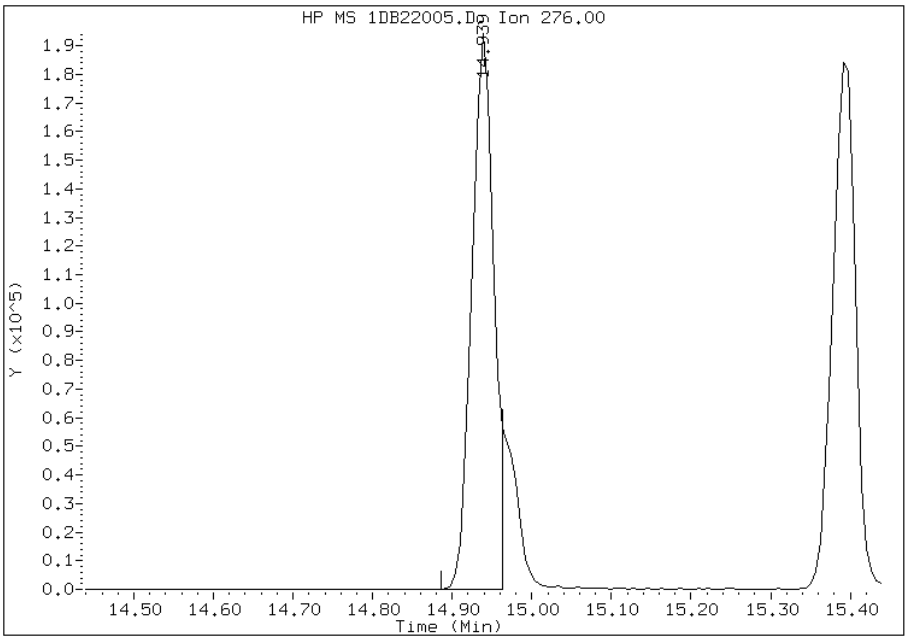
Manual Integration Results

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)	AMOUNTS 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

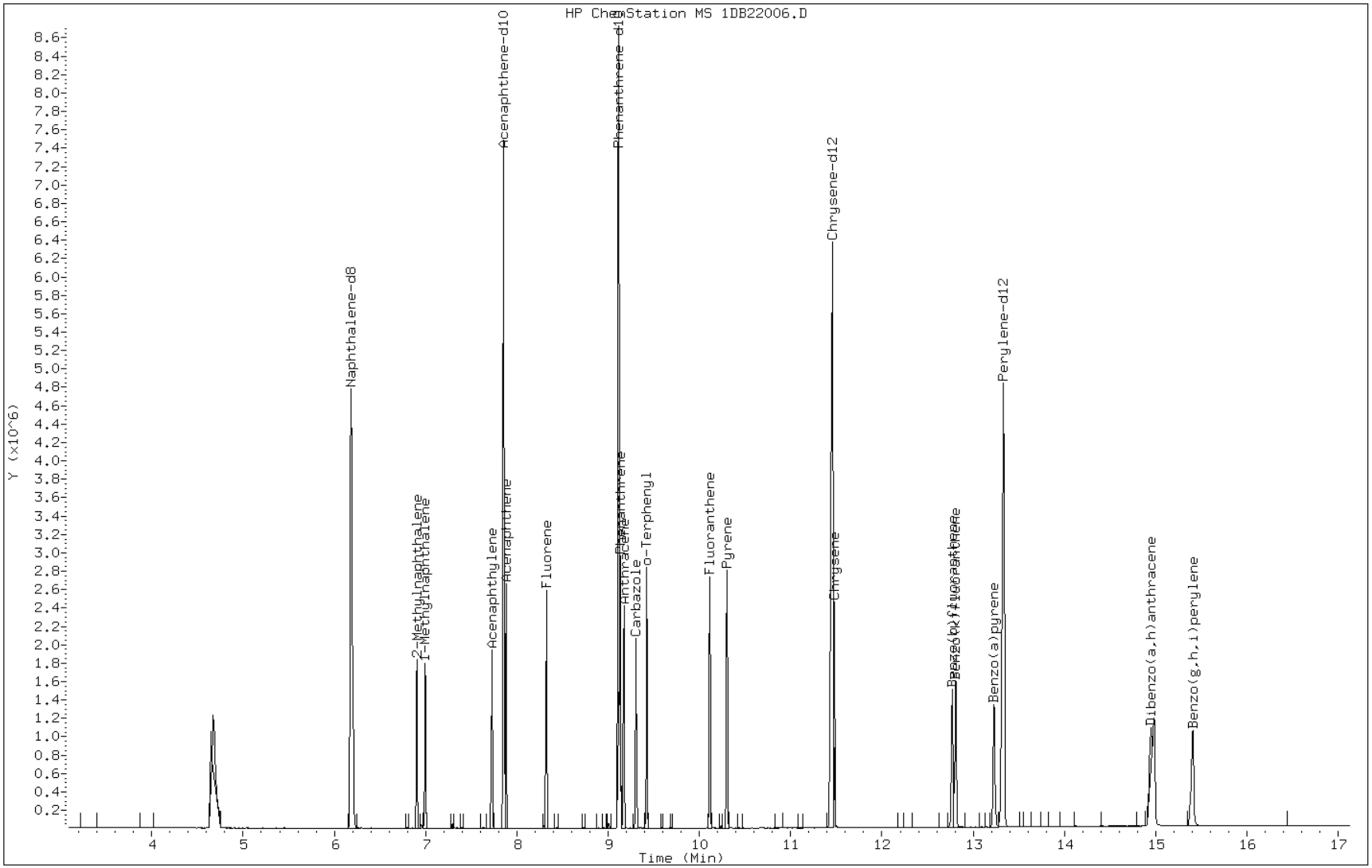
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

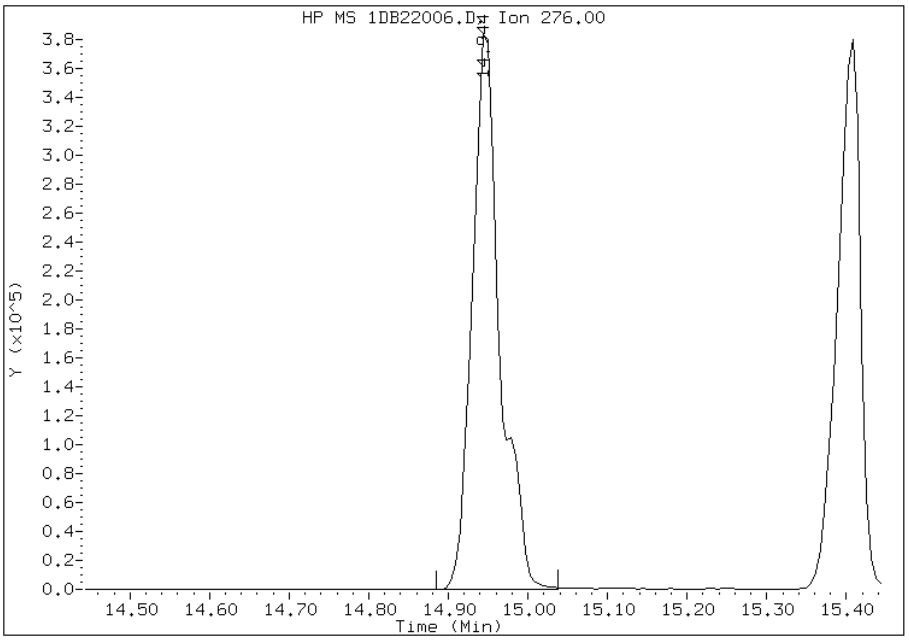
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



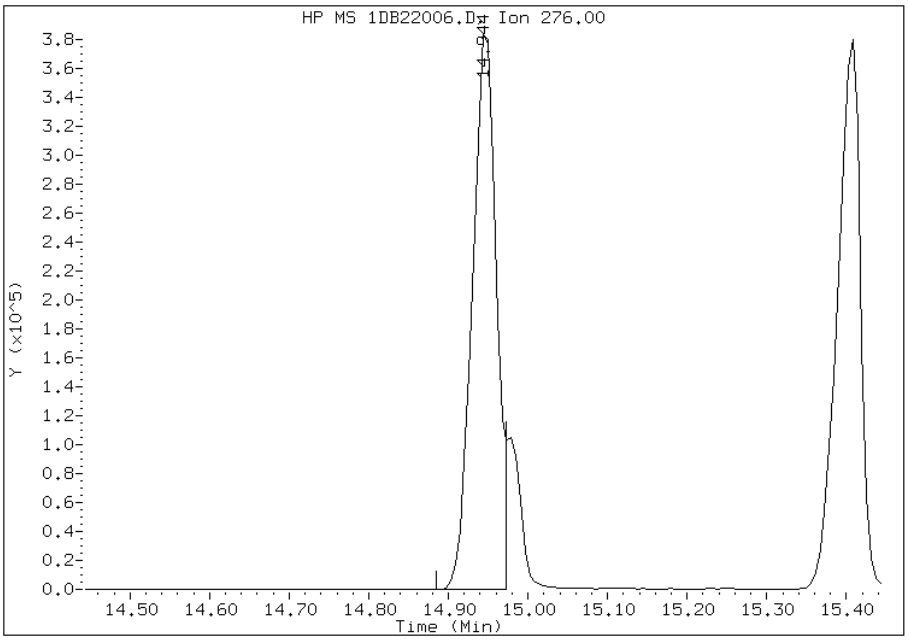
Manual Integration Results

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

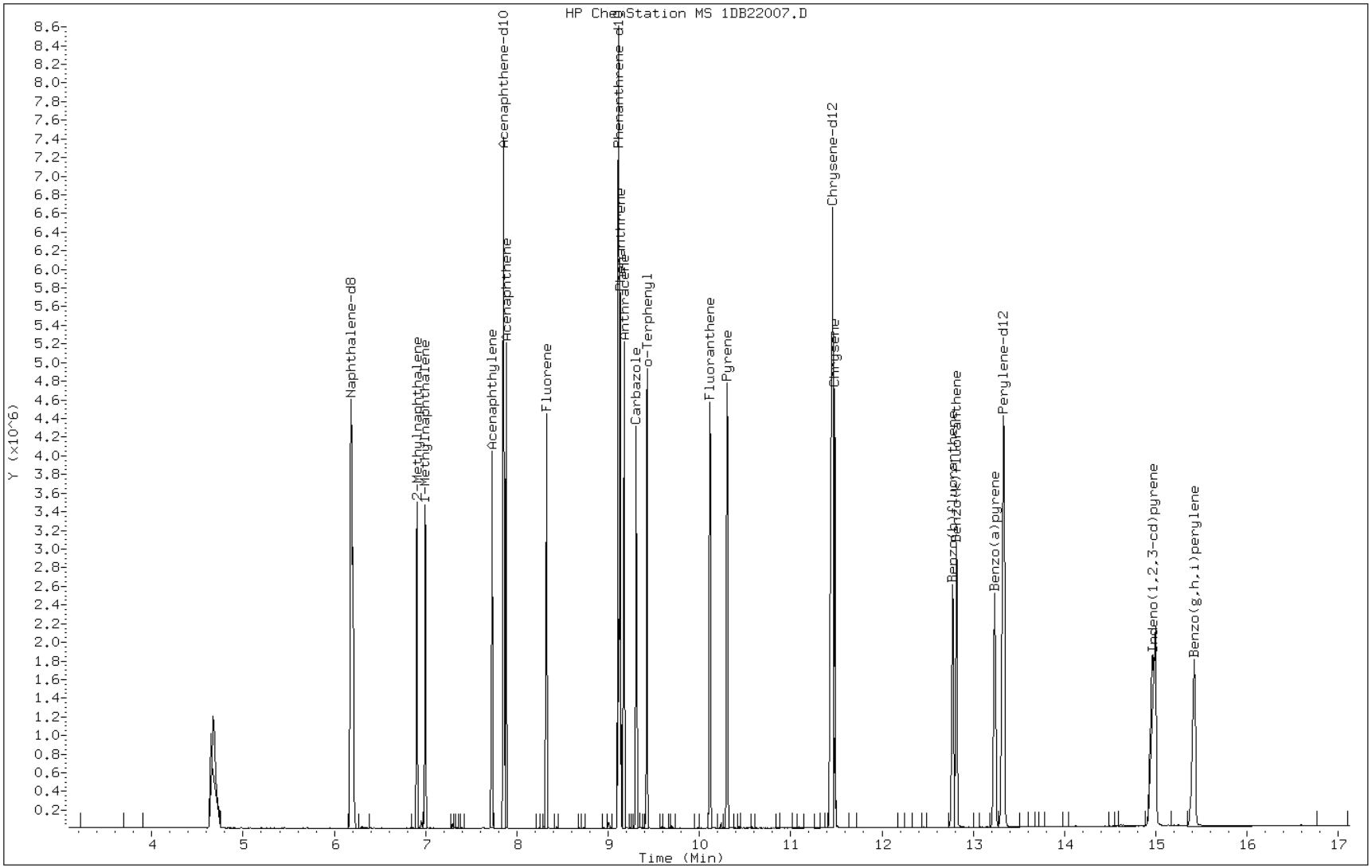
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13 o-Terphenyl	230	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)	AMOUNTS 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

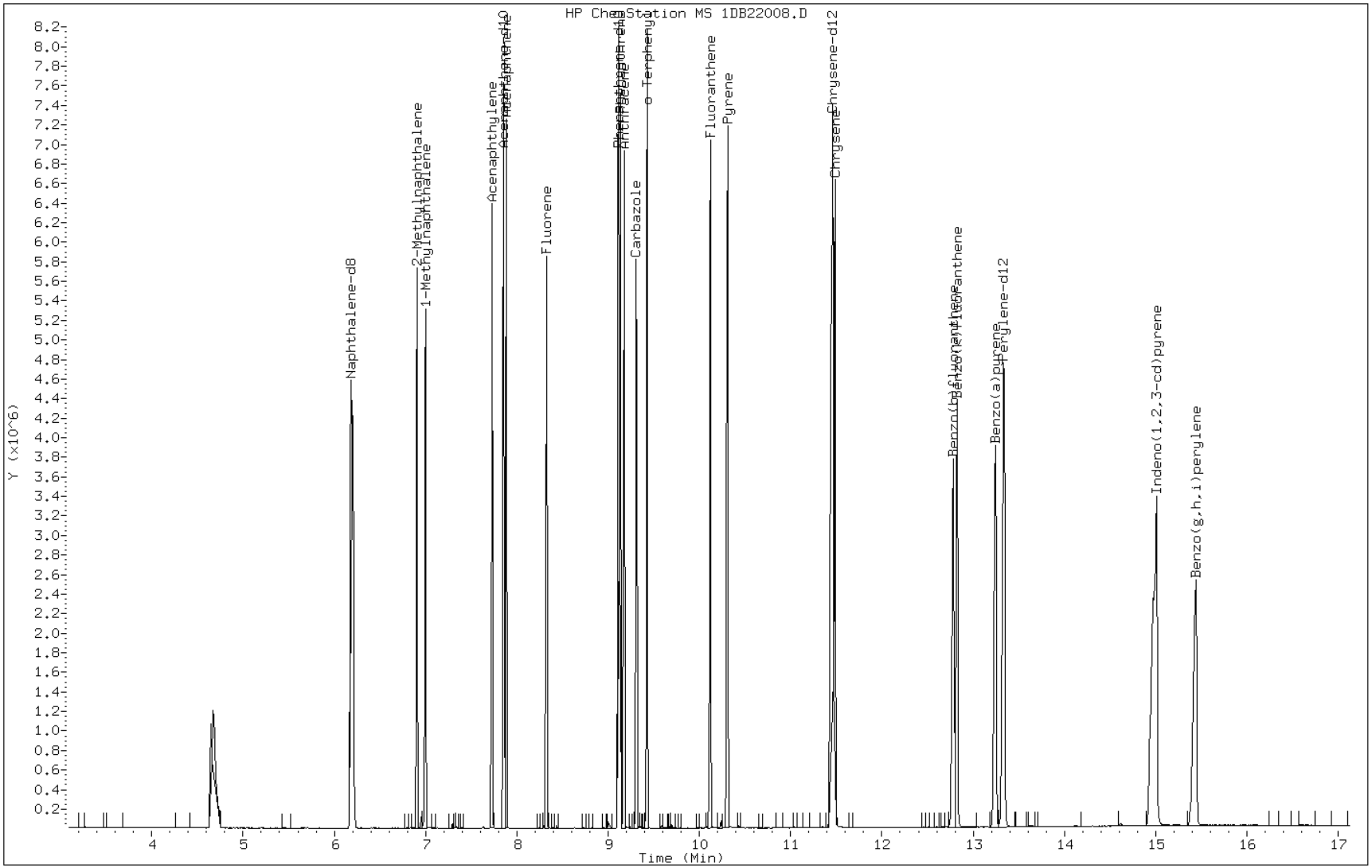
H - Operator selected an alternate compound hit.

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

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

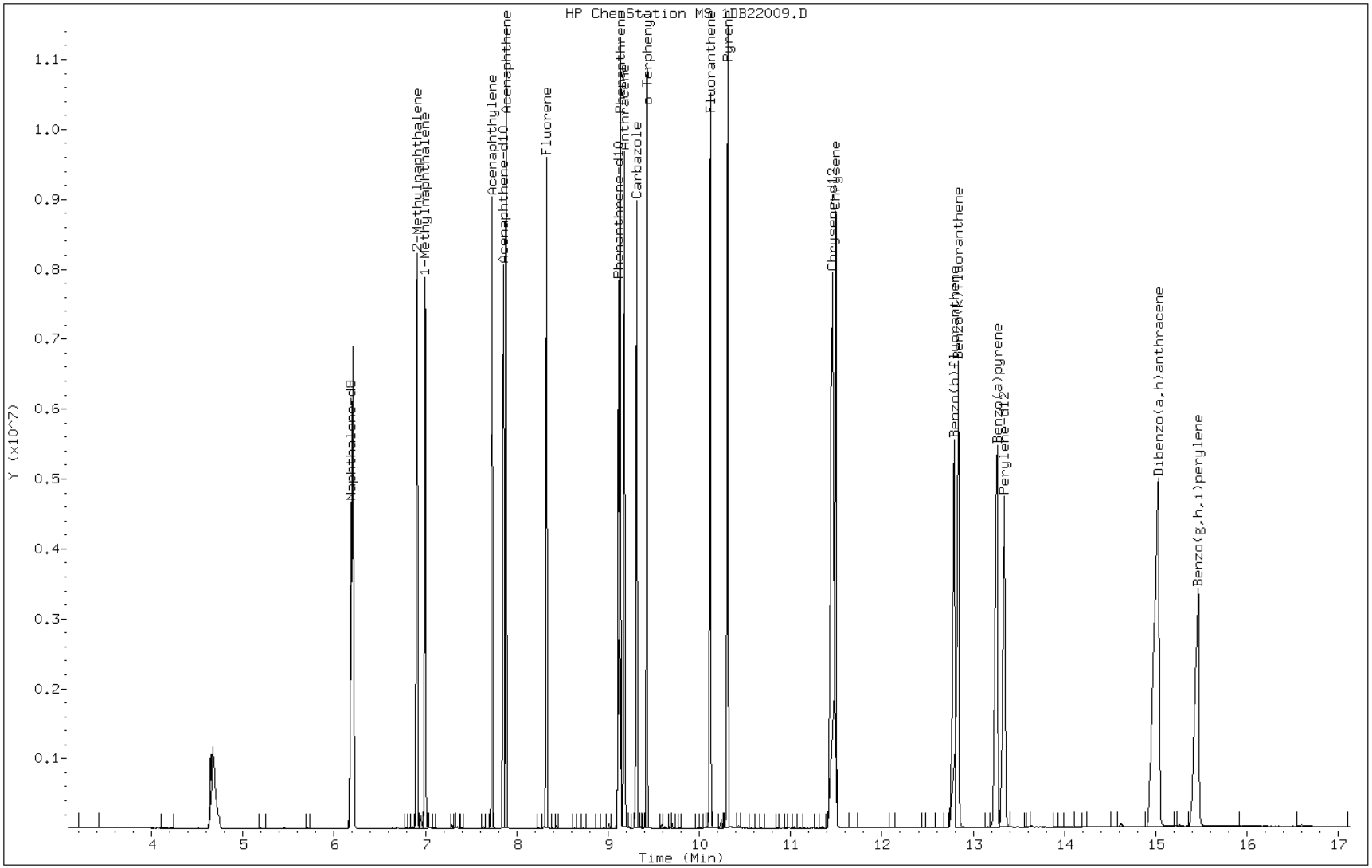
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

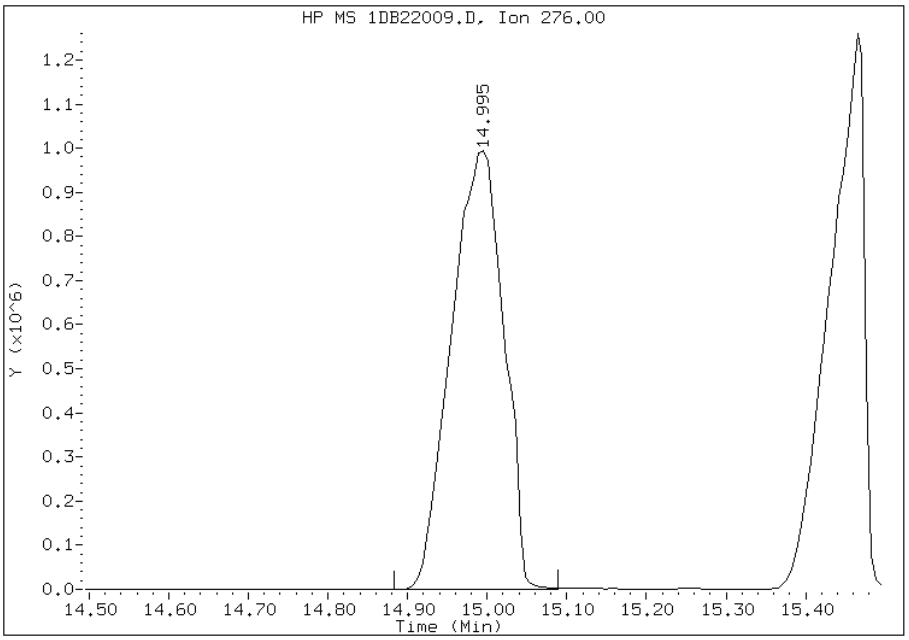
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



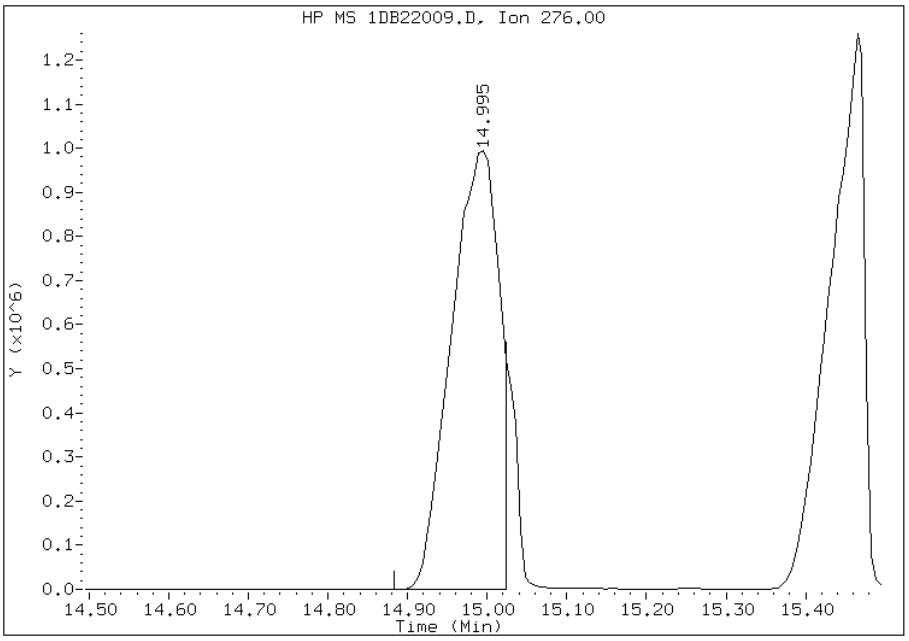
Manual Integration Results

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.: 680-88065-1

SDG No.: 68088065-1

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

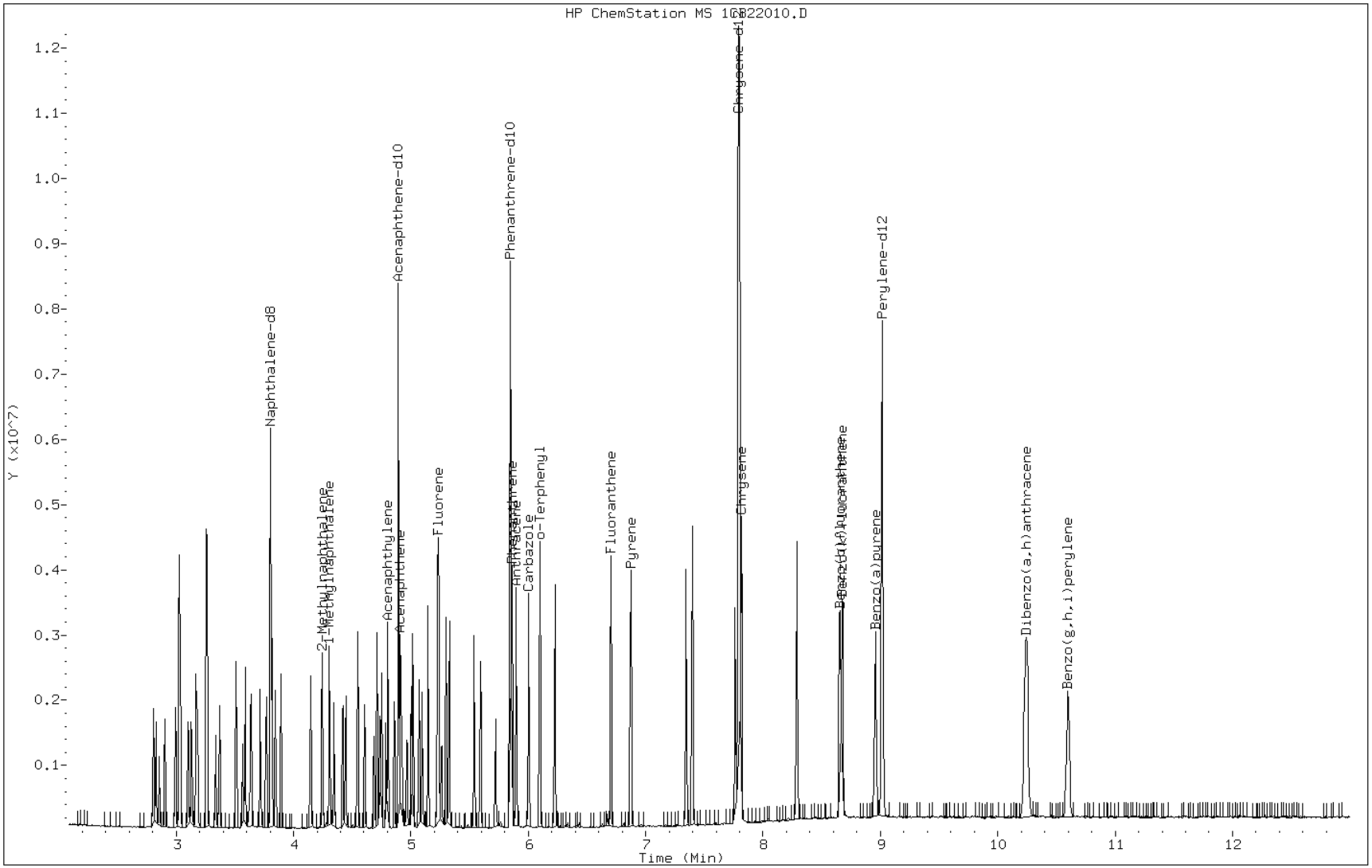
Date: 22-FEB-2013 14:06

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

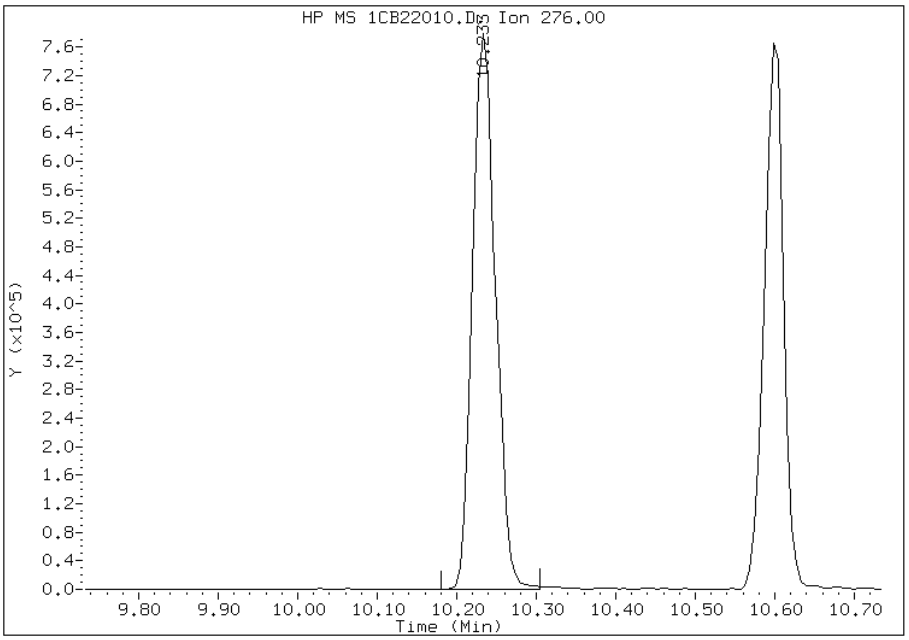
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



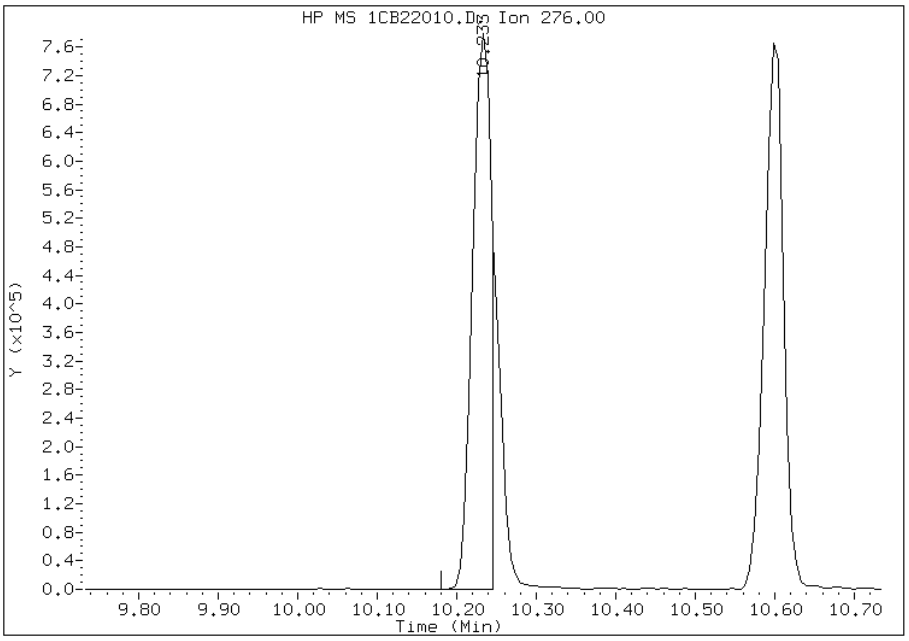
Manual Integration Results

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.: 680-88065-1

SDG No.: 68088065-1

Lab Sample ID: CCVIS 660-135316/3 Calibration Date: 03/12/2013 12:18

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: 1CC12003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.064	0.0000	20400	20000	2.1	20.0
2-Methylnaphthalene	Ave	0.6946	0.7111	0.0000	20500	20000	2.4	20.0
1-Methylnaphthalene	Ave	0.6326	0.6600	0.0000	20900	20000	4.3	20.0
Acenaphthylene	Ave	1.613	1.666	0.0000	20700	20000	3.3	20.0
Acenaphthene	Ave	1.002	0.9275	0.0000	18500	20000	-7.5	20.0
Fluorene	Ave	1.268	1.327	0.0000	20900	20000	4.7	20.0
Phenanthrene	Ave	1.157	1.125	0.0000	19500	20000	-2.7	20.0
Anthracene	Ave	1.131	1.134	0.0000	20100	20000	0.3	20.0
Carbazole	Ave	1.006	1.013	0.0000	20100	20000	0.7	20.0
Fluoranthene	Ave	1.267	1.275	0.0000	20100	20000	0.7	20.0
Pyrene	Ave	1.075	1.106	0.0000	20600	20000	2.9	20.0
Benzo[a]anthracene	Ave	1.154	1.073	0.0000	18600	20000	-7.0	20.0
Chrysene	Ave	1.155	1.102	0.0000	19100	20000	-4.6	20.0
Benzo[b]fluoranthene	Ave	1.045	1.111	0.0000	21300	20000	6.3	20.0
Benzo[k]fluoranthene	Ave	1.072	1.049	0.0000	19600	20000	-2.2	20.0
Benzo[a]pyrene	Ave	1.015	1.021	0.0000	20100	20000	0.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9203	0.0000	19300	20000	-3.6	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8824	0.0000	18900	20000	-5.6	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9371	0.0000	18800	20000	-6.2	20.0
o-Terphenyl	Ave	0.6039	0.6183	0.0000	20500	20000	2.4	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 12-MAR-2013 12:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1109583	40.0000	(H)
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	871233	40.0000	(H)
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1647901	40.0000	(H)
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	509434	20.0000	20.4752(H)
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2056241	40.0000	(H)
* 23 Perylene-d12	264	8.945	8.945	(1.000)	2011579	40.0000	(H)
2 Naphthalene	128	3.774	3.774	(1.003)	590070	20.0000	20.4270(H)
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	394523	20.0000	20.4748(H)
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	366177	20.0000	20.8658(H)
5 Acenaphthylene	152	4.763	4.763	(0.982)	725744	20.0000	20.6615(H)
7 Acenaphthene	154	4.868	4.868	(1.004)	404028	20.0000	18.5058
9 Fluorene	166	5.192	5.192	(1.070)	578205	20.0000	20.9410(H)
11 Phenanthrene	178	5.815	5.815	(1.002)	926873	20.0000	19.4516(H)
12 Anthracene	178	5.851	5.851	(1.008)	934475	20.0000	20.0525(H)
13 Carbazole	167	5.957	5.957	(1.026)	834366	20.0000	20.1414(H)
15 Fluoranthene	202	6.657	6.657	(1.147)	1050607	20.0000	20.1333(H)
16 Pyrene	202	6.827	6.827	(0.882)	1137393	20.0000	20.5831(H)
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	1103451	20.0000	18.5931(H)
19 Chrysene	228	7.768	7.768	(1.003)	1133234	20.0000	19.0806(H)
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	1117462	20.0000	21.2566(H)
21 Benzo(k)fluoranthene	252	8.615	8.615	(0.963)	1055222	20.0000	19.5669(H)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	1026682	20.0000	20.1062(H)
24 Indeno(1,2,3-cd)pyrene	276	10.127	10.127	(1.132)	925669	20.0000	19.2704(MH)
25 Dibenzo(a,h)anthracene	278	10.145	10.145	(1.134)	887483	20.0000	18.8884(H)
26 Benzo(g,h,i)perylene	276	10.486	10.486	(1.172)	942556	20.0000	18.7576(H)

QC Flag Legend

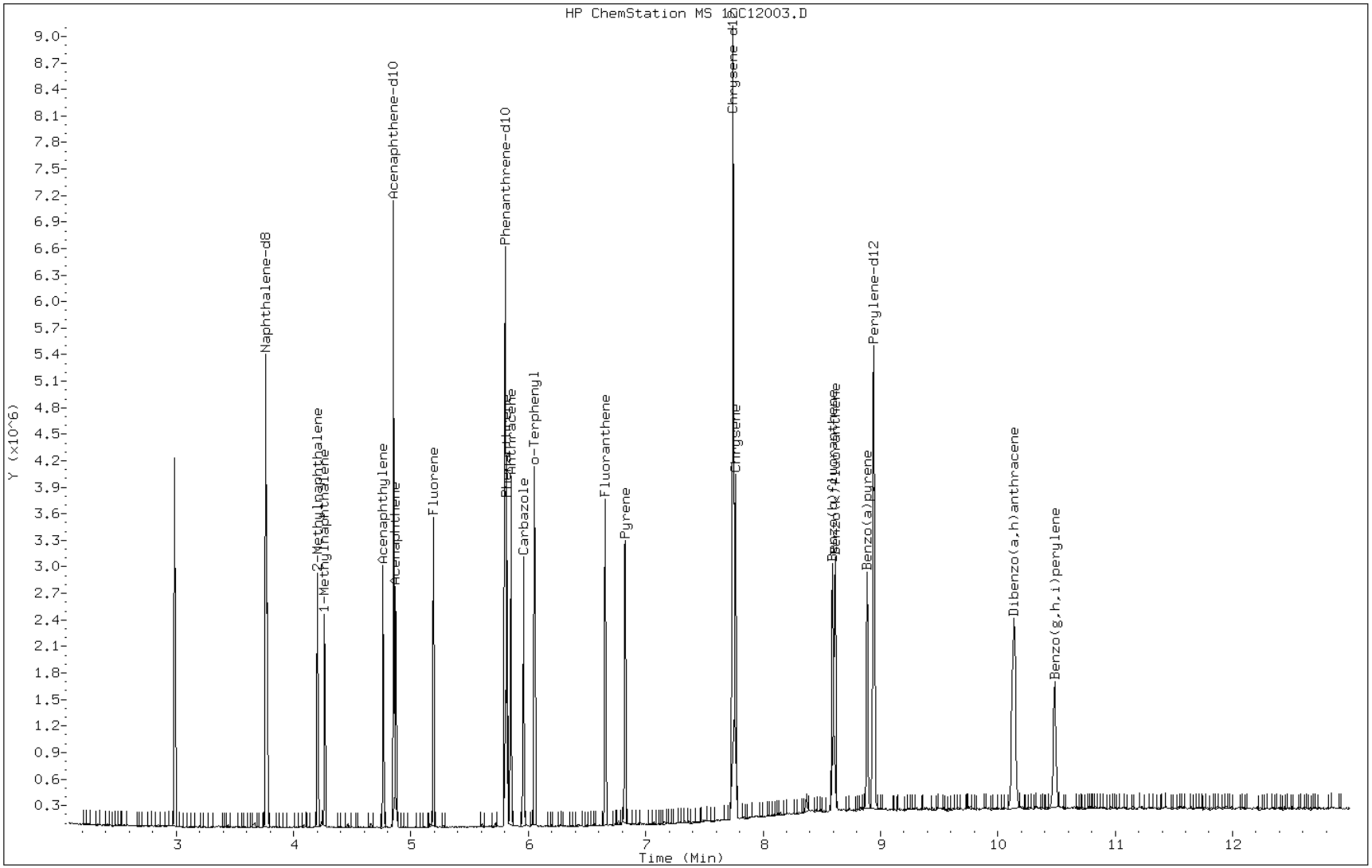
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC12003.D

Date: 12-MAR-2013 12:18

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CC12003.D
Inj. Date and Time: 12-MAR-2013 12:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/12/2013

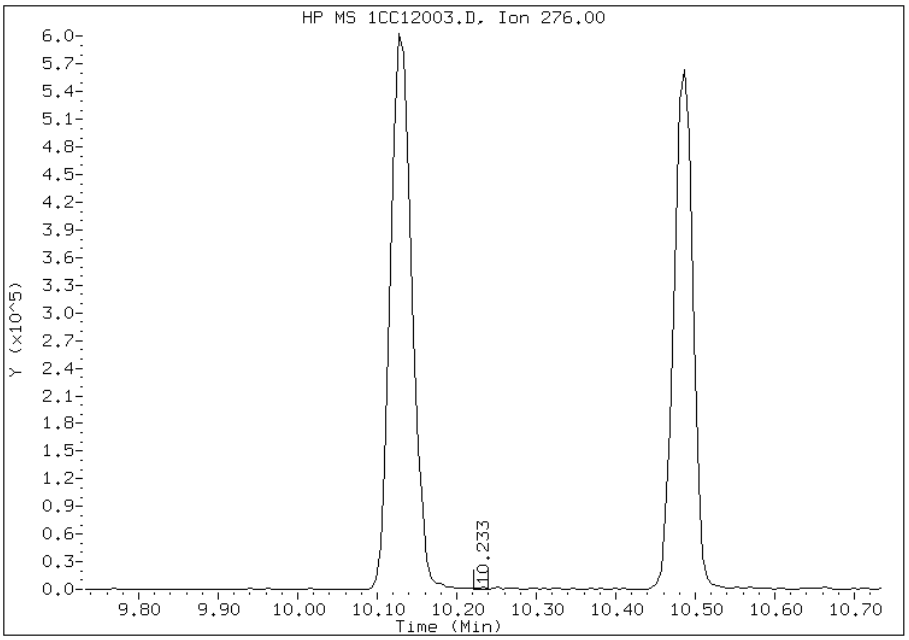
Processing Integration Results

RT: 10.23

Response: 1563

Amount: 0

Conc: 0



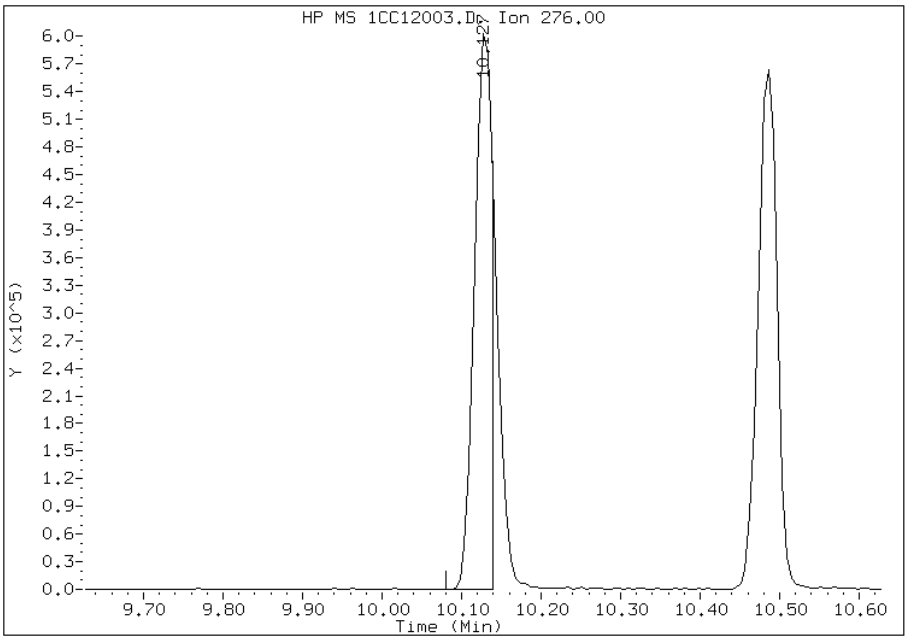
Manual Integration Results

RT: 10.13

Response: 925669

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 12-Mar-2013 13:05
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Lab Sample ID: CCVIS 660-135360/3 Calibration Date: 03/13/2013 11:52

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: 1CC13003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.048	0.0000	20100	20000	0.6	20.0
2-Methylnaphthalene	Ave	0.6946	0.6733	0.0000	19400	20000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6326	0.6344	0.0000	20100	20000	0.3	20.0
Acenaphthylene	Ave	1.613	1.594	0.0000	19800	20000	-1.1	20.0
Acenaphthene	Ave	1.002	0.9431	0.0000	18800	20000	-5.9	20.0
Fluorene	Ave	1.268	1.262	0.0000	19900	20000	-0.4	20.0
Phenanthrene	Ave	1.157	1.115	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.131	1.149	0.0000	20300	20000	1.6	20.0
Carbazole	Ave	1.006	0.9774	0.0000	19400	20000	-2.8	20.0
Fluoranthene	Ave	1.267	1.249	0.0000	19700	20000	-1.4	20.0
Pyrene	Ave	1.075	1.088	0.0000	20200	20000	1.2	20.0
Benzo[a]anthracene	Ave	1.154	1.079	0.0000	18700	20000	-6.5	20.0
Chrysene	Ave	1.155	1.088	0.0000	18800	20000	-5.8	20.0
Benzo[b]fluoranthene	Ave	1.045	0.9662	0.0000	18500	20000	-7.6	20.0
Benzo[k]fluoranthene	Ave	1.072	1.137	0.0000	21200	20000	6.0	20.0
Benzo[a]pyrene	Ave	1.015	1.027	0.0000	20200	20000	1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9438	0.0000	19800	20000	-1.2	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8918	0.0000	19100	20000	-4.5	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9528	0.0000	19100	20000	-4.6	20.0
o-Terphenyl	Ave	0.6039	0.5983	0.0000	19800	20000	-0.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 13-MAR-2013 11:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.757	3.757	(1.000)	1032078	40.0000	(H)
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	777360	40.0000	(H)
* 10 Phenanthrene-d10	188	5.798	5.798	(1.000)	1454755	40.0000	(H)
$ 14 o-Terphenyl	230	6.045	6.045	(1.043)	435158	20.0000	19.8120(H)
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1753181	40.0000	(H)
* 23 Perylene-d12	264	8.933	8.933	(1.000)	1795142	40.0000	(H)
2 Naphthalene	128	3.768	3.768	(1.003)	540711	20.0000	20.1240(H)
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	347429	20.0000	19.3848(H)
4 1-Methylnaphthalene	142	4.262	4.262	(1.135)	327361	20.0000	20.0548(H)
5 Acenaphthylene	152	4.757	4.757	(0.982)	619729	20.0000	19.7739(H)
7 Acenaphthene	154	4.862	4.862	(1.004)	366550	20.0000	18.8167(H)
9 Fluorene	166	5.186	5.186	(1.070)	490649	20.0000	19.9159(H)
11 Phenanthrene	178	5.809	5.809	(1.002)	811330	20.0000	19.2874(H)
12 Anthracene	178	5.845	5.845	(1.008)	835574	20.0000	20.3108(H)
13 Carbazole	167	5.951	5.951	(1.026)	710915	20.0000	19.4398(H)
15 Fluoranthene	202	6.651	6.651	(1.147)	908602	20.0000	19.7237(H)
16 Pyrene	202	6.815	6.815	(0.881)	953917	20.0000	20.2469(H)
17 Benzo(a)anthracene	228	7.733	7.733	(0.999)	945801	20.0000	18.6916(H)
19 Chrysene	228	7.762	7.762	(1.003)	954099	20.0000	18.8414(H)
20 Benzo(b)fluoranthene	252	8.586	8.586	(0.961)	867260	20.0000	18.4862(H)
21 Benzo(k)fluoranthene	252	8.603	8.603	(0.963)	1020086	20.0000	21.1960(H)
22 Benzo(a)pyrene	252	8.880	8.880	(0.994)	922100	20.0000	20.2354(H)
24 Indeno(1,2,3-cd)pyrene	276	10.115	10.115	(1.132)	847089	20.0000	19.7607(MH)
25 Dibenzo(a,h)anthracene	278	10.133	10.133	(1.134)	800446	20.0000	19.0900(H)
26 Benzo(g,h,i)perylene	276	10.474	10.474	(1.173)	855240	20.0000	19.0720(H)

QC Flag Legend

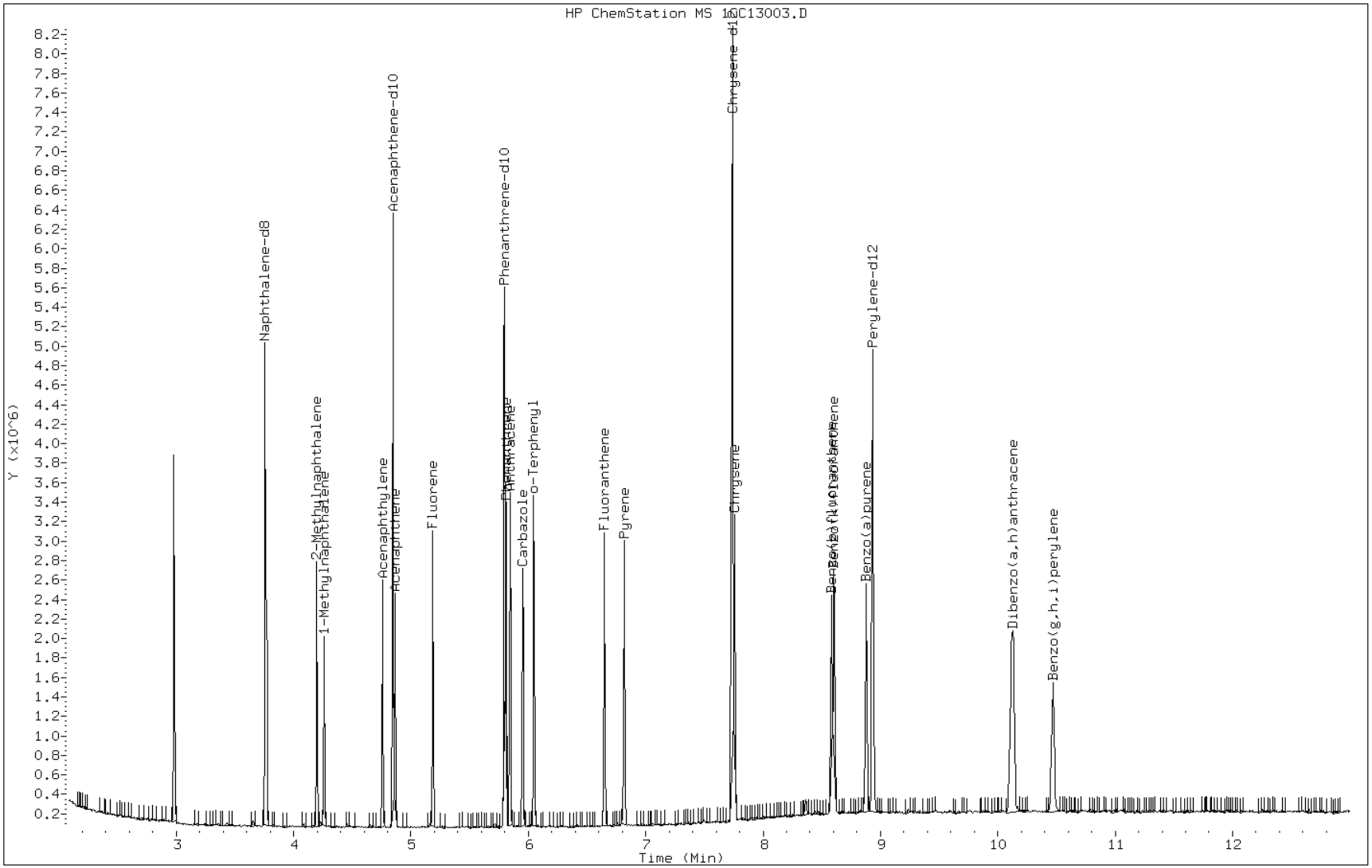
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC13003.D

Date: 13-MAR-2013 11:52

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CC13003.D
Inj. Date and Time: 13-MAR-2013 11:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

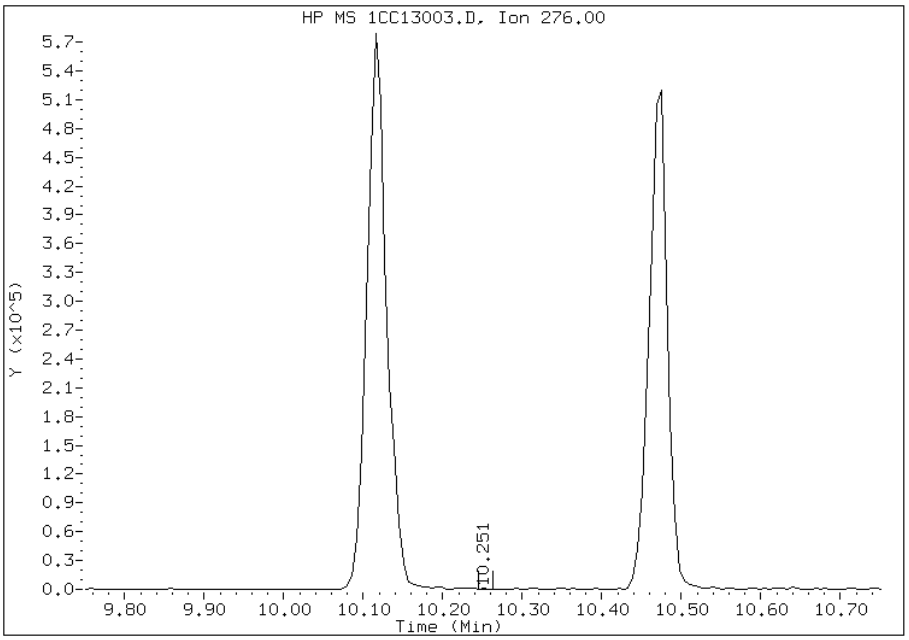
Processing Integration Results

RT: 10.25

Response: 615

Amount: 0

Conc: 0



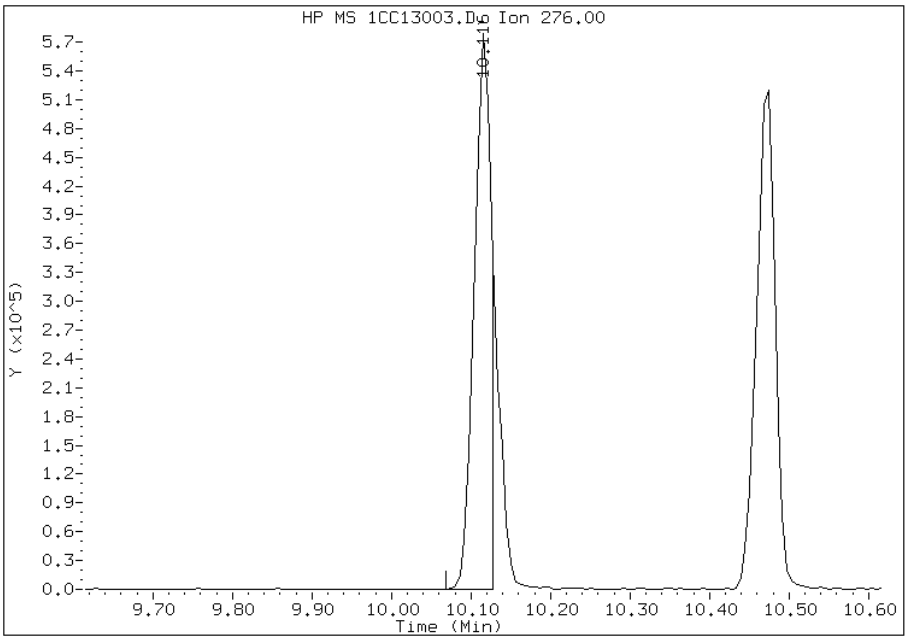
Manual Integration Results

RT: 10.12

Response: 847089

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 12:14
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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

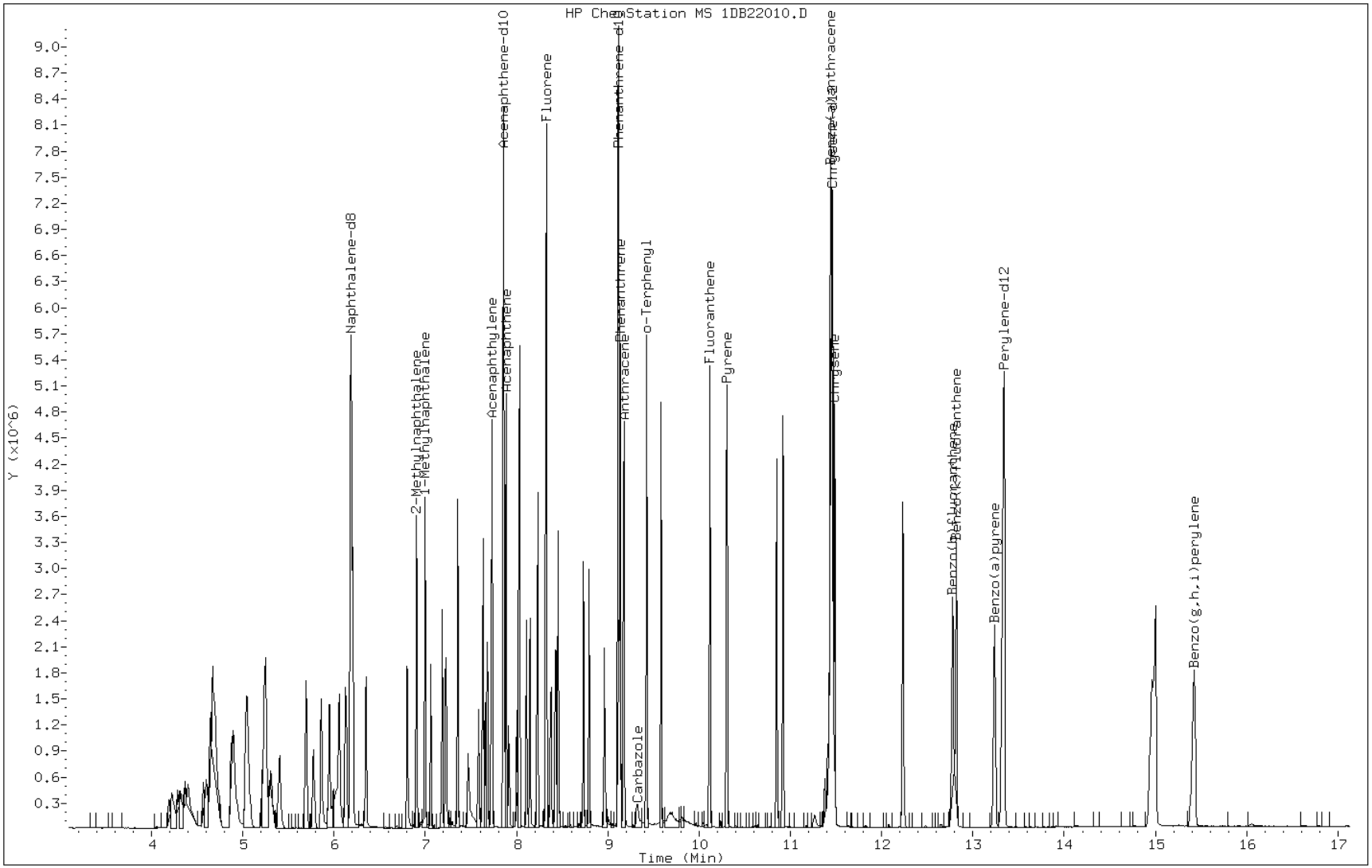
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

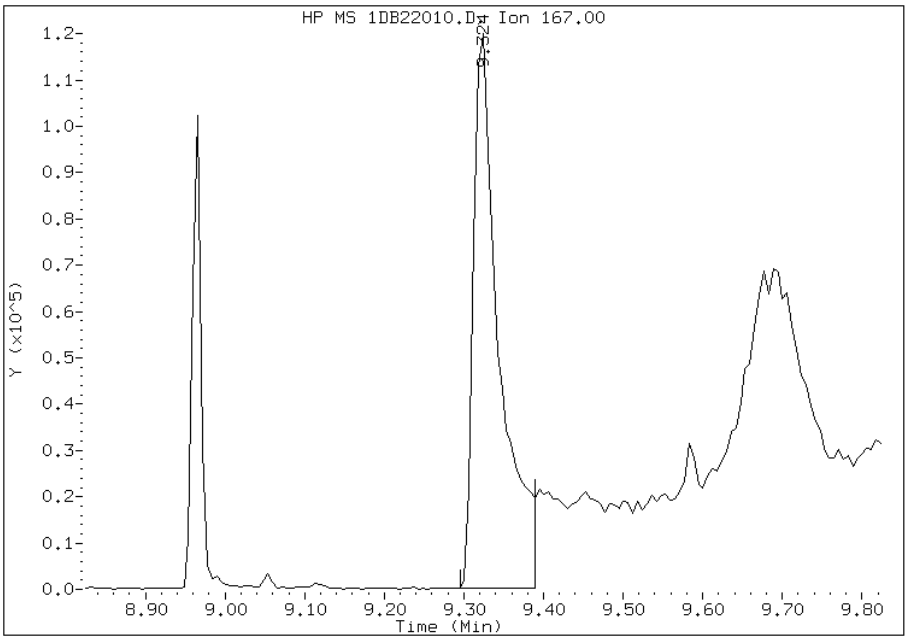
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



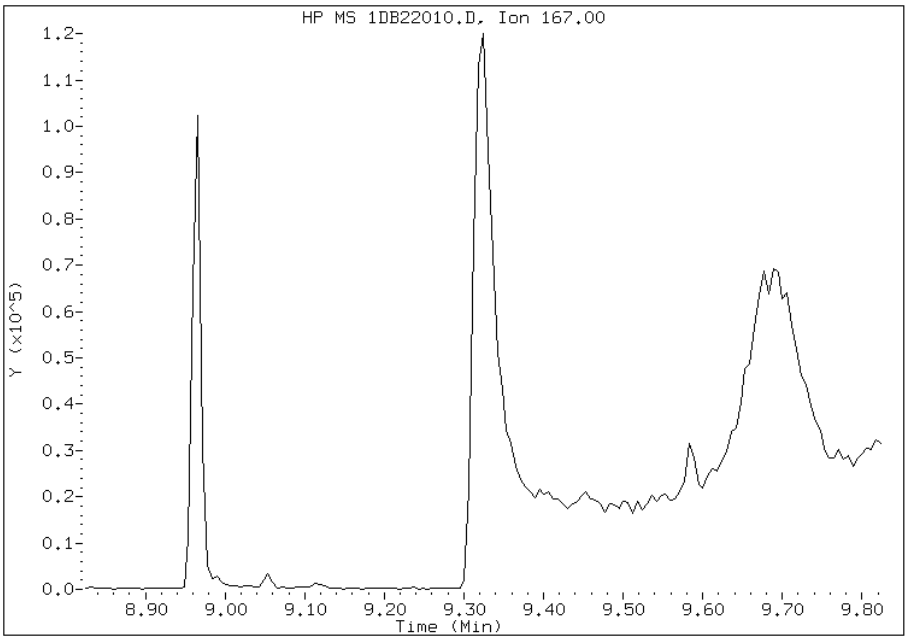
Manual Integration Results

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.: 680-88065-1

SDG No.: 68088065-1

Lab Sample ID: CCVIS 660-135345/3 Calibration Date: 03/12/2013 10:31

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: 1DC12003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.056	0.0000	19700	20000	-1.3	20.0
2-Methylnaphthalene	Ave	0.6816	0.7066	0.0000	20700	20000	3.7	20.0
1-Methylnaphthalene	Ave	0.6383	0.6581	0.0000	20600	20000	3.1	20.0
Acenaphthylene	Ave	1.764	1.792	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	1.075	1.061	0.0000	19700	20000	-1.3	20.0
Fluorene	Ave	1.256	1.299	0.0000	20700	20000	3.4	20.0
Phenanthrene	Ave	1.135	1.094	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.136	1.138	0.0000	20000	20000	0.1	20.0
Carbazole	Ave	1.016	1.009	0.0000	19900	20000	-0.6	20.0
Fluoranthene	Ave	1.185	1.177	0.0000	19900	20000	-0.7	20.0
Pyrene	Ave	1.241	1.177	0.0000	19000	20000	-5.2	20.0
Benzo[a]anthracene	LinF	1.184	1.082	0.0000	19800	20000	-1.2	20.0
Chrysene	Ave	1.131	1.080	0.0000	19100	20000	-4.5	20.0
Benzo[b]fluoranthene	Ave	1.030	1.011	0.0000	19600	20000	-1.8	20.0
Benzo[k]fluoranthene	Ave	1.078	1.105	0.0000	20500	20000	2.5	20.0
Benzo[a]pyrene	Ave	1.019	1.037	0.0000	20400	20000	1.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.070	0.0000	19700	20000	-1.6	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.002	0.0000	19900	20000	-0.3	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.006	0.0000	19400	20000	-2.9	20.0
o-Terphenyl	Ave	0.6186	0.6143	0.0000	19900	20000	-0.7	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 12-MAR-2013 10:31
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.149	6.149	(1.000)	1883165	40.0000	(H)
* 6 Acenaphthene-d10	164	7.818	7.818	(1.000)	1180391	40.0000	(H)
* 9 Phenanthrene-d10	188	9.075	9.075	(1.000)	2073857	40.0000	(H)
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	636945	20.0000	20(H)
* 17 Chrysene-d12	240	11.414	11.414	(1.000)	2207373	40.0000	(H)
* 22 Perylene-d12	264	13.282	13.282	(1.000)	2302102	40.0000	(H)
2 Naphthalene	128	6.173	6.173	(1.004)	994356	20.0000	20(H)
3 2-Methylnaphthalene	142	6.872	6.872	(1.118)	665284	20.0000	21(H)
4 1-Methylnaphthalene	142	6.960	6.960	(1.132)	619635	20.0000	21(H)
5 Acenaphthylene	152	7.688	7.688	(0.983)	1057869	20.0000	20(H)
7 Acenaphthene	154	7.847	7.847	(1.004)	626071	20.0000	20
8 Fluorene	166	8.288	8.288	(1.060)	766407	20.0000	21(H)
10 Phenanthrene	178	9.099	9.099	(1.003)	1134842	20.0000	19(H)
11 Anthracene	178	9.140	9.140	(1.007)	1179582	20.0000	20(H)
12 Carbazole	167	9.275	9.275	(1.022)	1046580	20.0000	20(H)
14 Fluoranthene	202	10.080	10.080	(1.111)	1220407	20.0000	20(H)
15 Pyrene	202	10.268	10.268	(0.900)	1298856	20.0000	19(H)
16 Benzo(a)anthracene	228	11.396	11.396	(0.998)	1193879	20.0000	20(H)
18 Chrysene	228	11.443	11.443	(1.003)	1191477	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.730	12.730	(0.958)	1164238	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.765	12.765	(0.961)	1271766	20.0000	20(H)
21 Benzo(a)pyrene	252	13.188	13.188	(0.993)	1193334	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.898	14.898	(1.122)	1231069	20.0000	20(MH)
24 Dibenzo(a,h)anthracene	278	14.927	14.927	(1.124)	1152859	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.356	15.356	(1.156)	1158335	20.0000	19(H)

QC Flag Legend

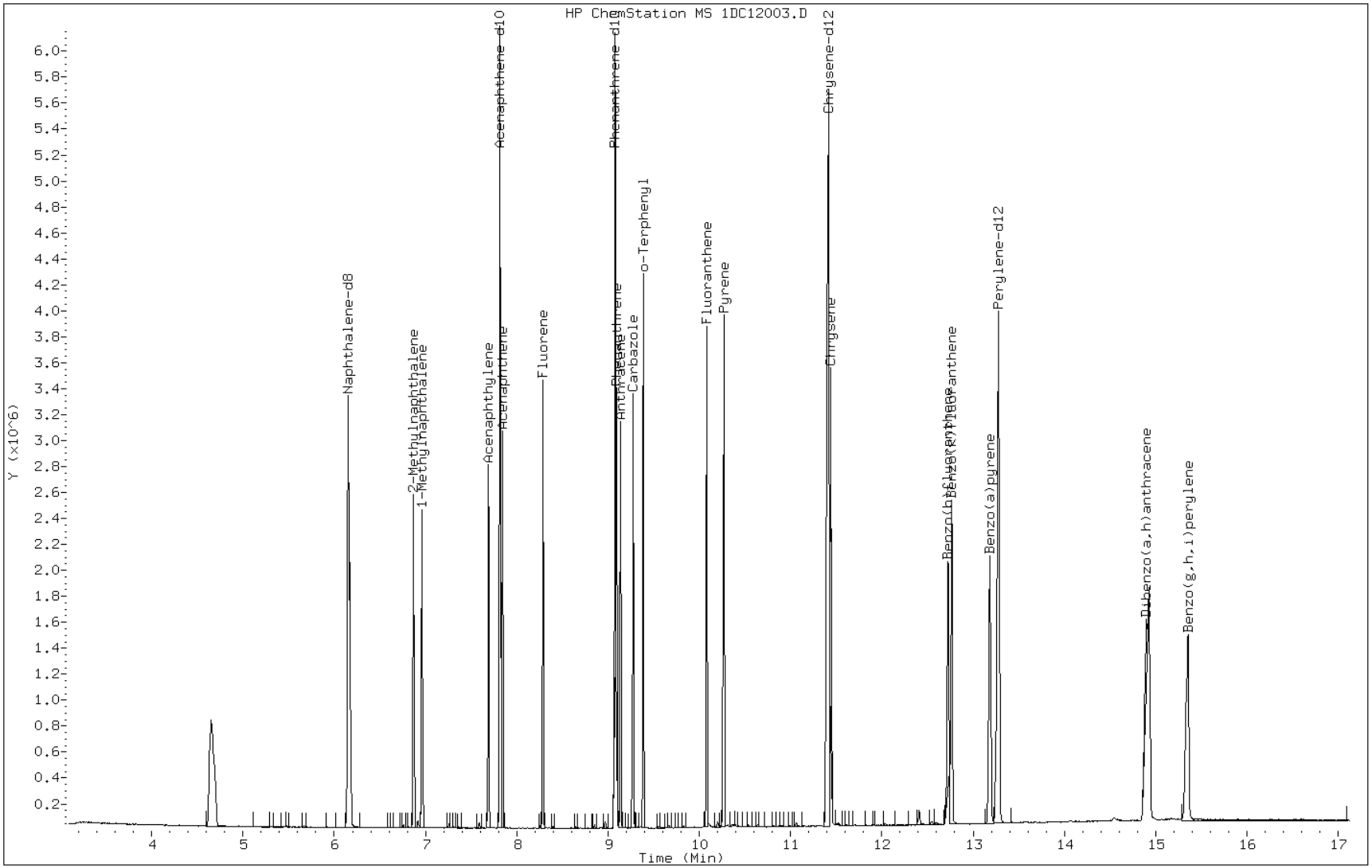
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC12003.D

Date: 12-MAR-2013 10:31

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1DC12003.D
Inj. Date and Time: 12-MAR-2013 10:31
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

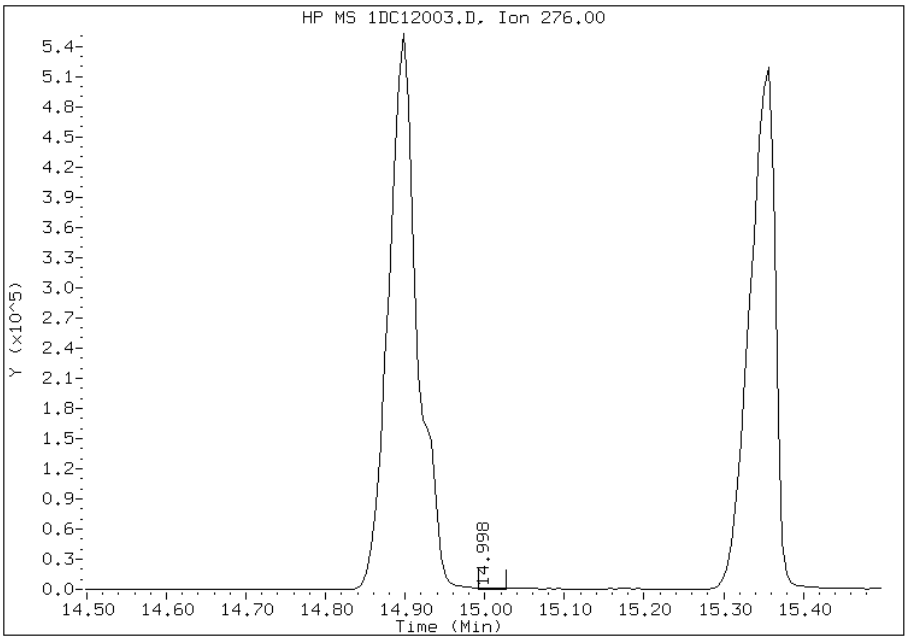
Processing Integration Results

RT: 15.00

Response: 1678

Amount: 0

Conc: 0



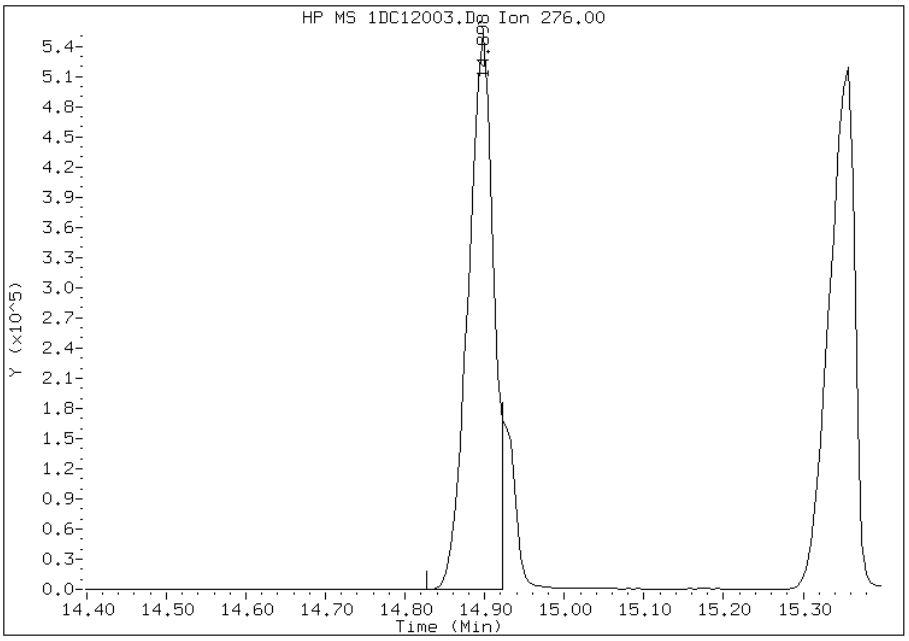
Manual Integration Results

RT: 14.90

Response: 1231069

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 12-Mar-2013 10:53
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

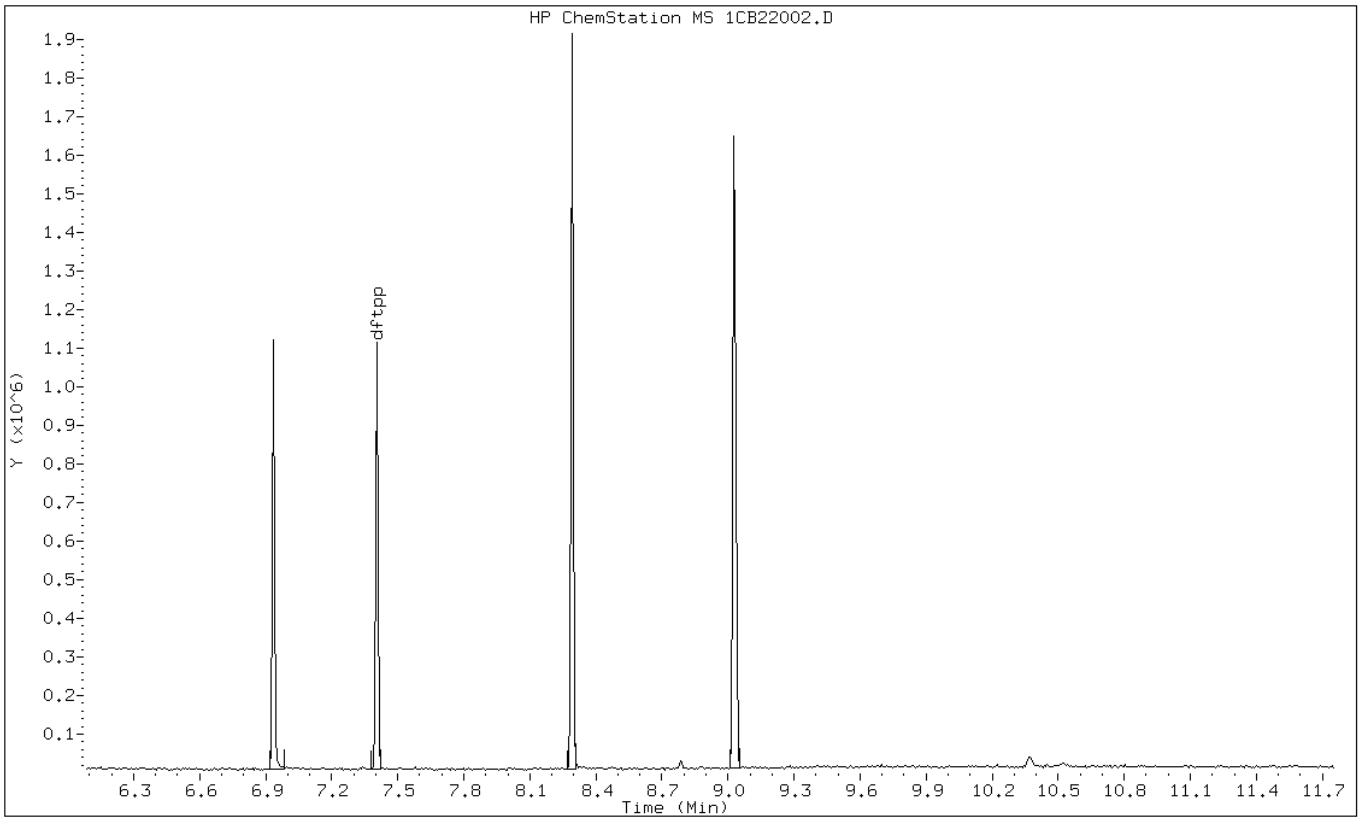
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00- 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



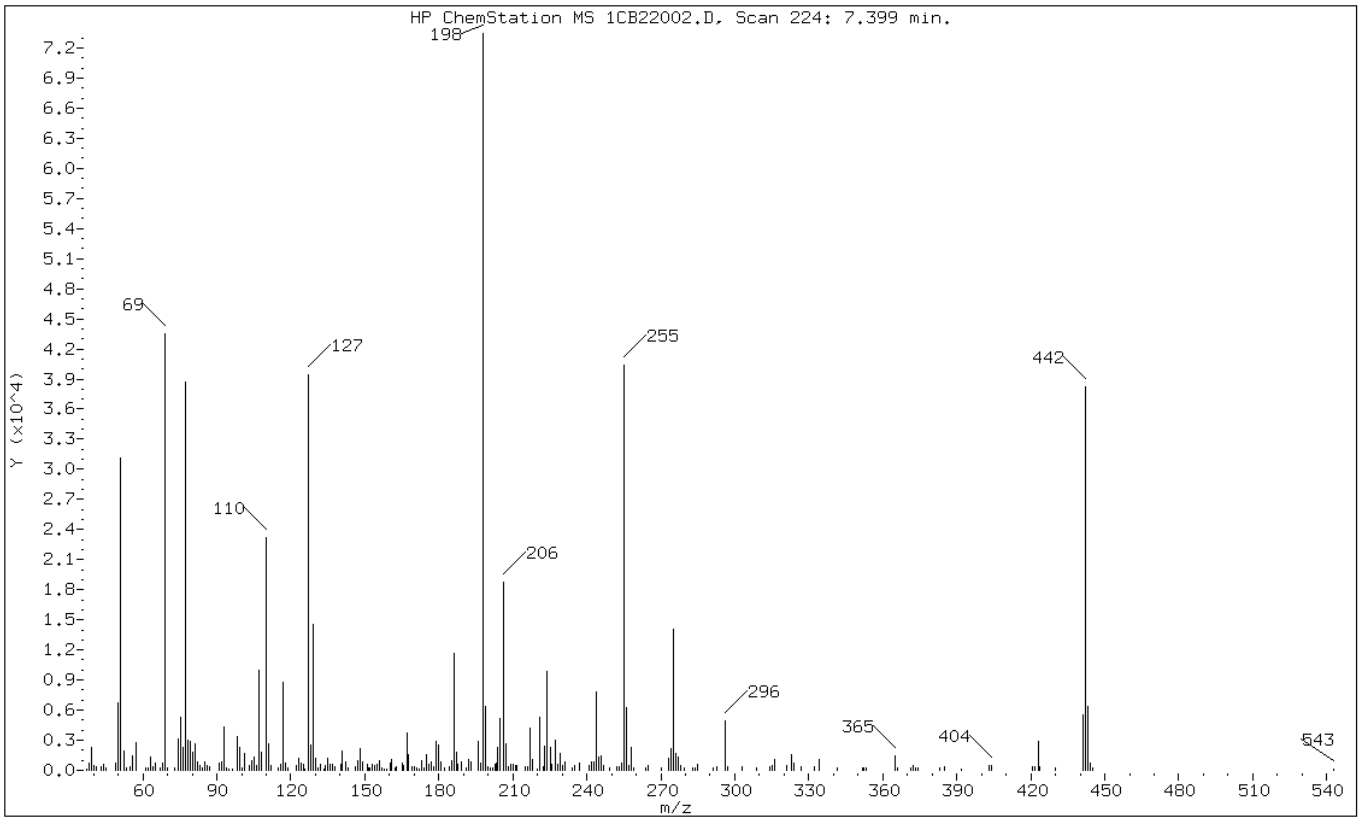
Data File: 1CB22002.D

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\1C031213.b\1CC12002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 12-MAR-2013 12:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.363	7.469	-0.106	198	148480			50.00- 0.00	100.00
7.363	7.469	-0.106	51	53408			10.00- 80.00	35.97
7.363	7.469	-0.106	68	974			0.00- 2.00	1.32
7.363	7.469	-0.106	69	73888			0.00- 0.00	49.76
7.363	7.469	-0.106	70	0	0.0	0.0	0.00- 2.00	0.00
7.363	7.469	-0.106	127	69024			10.00- 80.00	46.49
7.363	7.469	-0.106	197	0	0.0	0.0	0.00- 2.00	0.00
7.363	7.469	-0.106	442	96944			50.00- 0.00	65.29
7.363	7.469	-0.106	199	9353			5.00- 9.00	6.30
7.363	7.469	-0.106	275	30960			10.00- 60.00	20.85
7.363	7.469	-0.106	365	4054			1.00- 0.00	2.73
7.363	7.469	-0.106	441	13309			0.01- 99.99	72.17
7.363	7.469	-0.106	443	18440			15.00- 24.00	19.02

Data File: 1CC12002.D

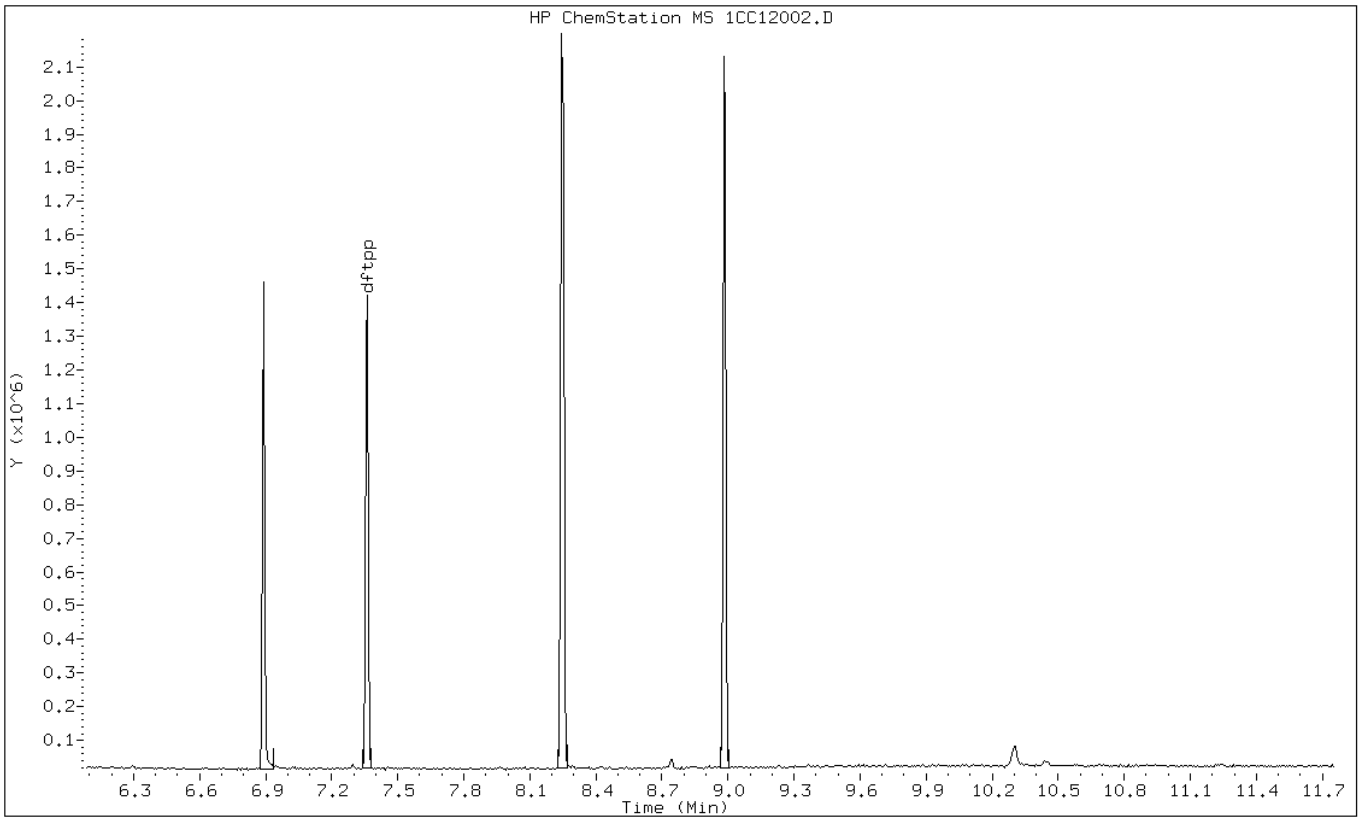
Date: 12-MAR-2013 12:01

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



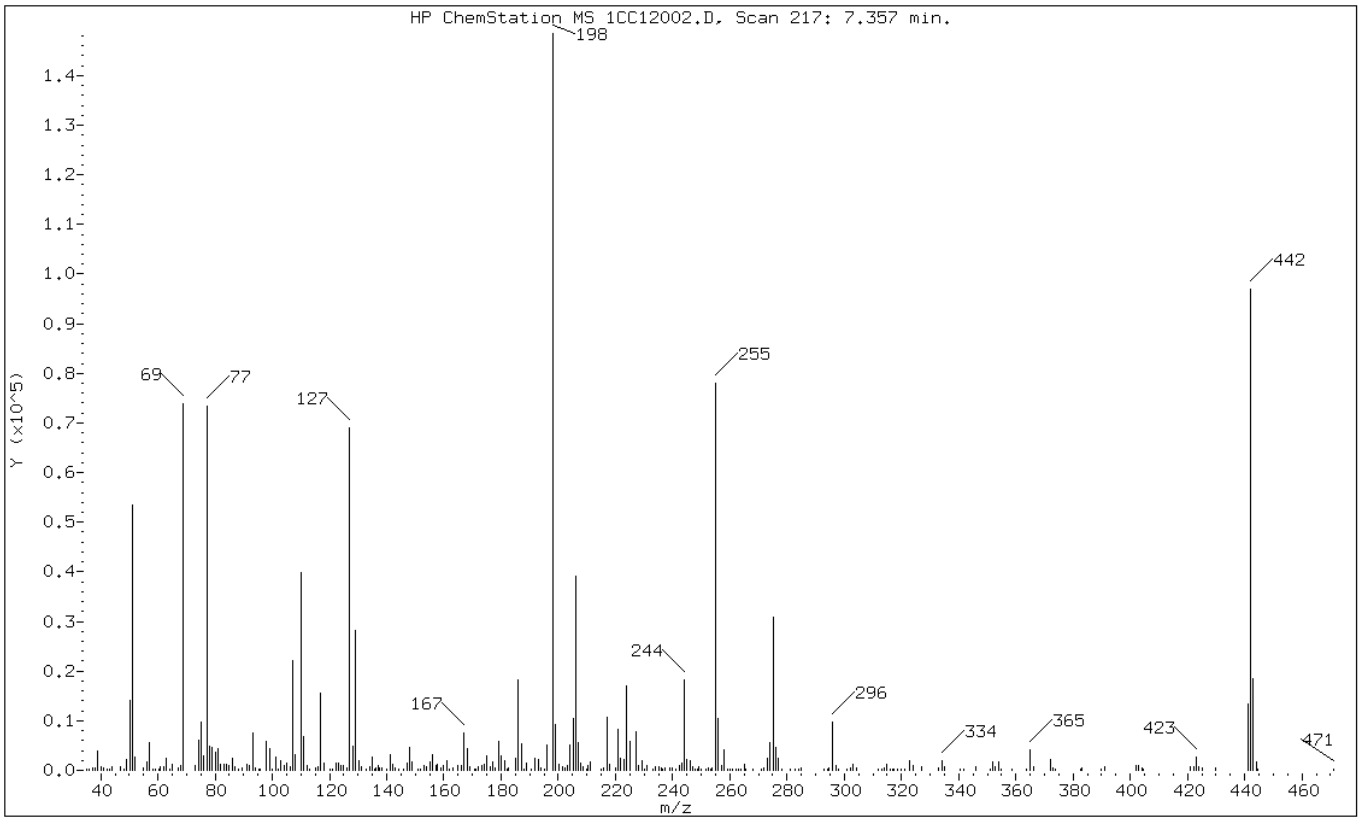
Data File: 1CC12002.D

Date: 12-MAR-2013 12:01

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	35.97
68	Less than 2.00% of mass 69	0.66 (1.32)
69	Mass 69 relative abundance	49.76
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.49
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	65.29
199	5.00 - 9.00% of mass 198	6.30
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	2.73
441	Present, but less than mass 443	8.96
443	15.00 - 24.00% of mass 442	12.42 (19.02)

Data File: 1CC12002.D

Date: 12-MAR-2013 12:01

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12002.D
Spectrum: HP ChemStation MS 1CC12002.D, Scan 217: 7.357 min.
Location of Maximum: 198.00
Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	360	118.00	1371	195.00	323	274.00	5513
36.00	253	120.10	263	196.00	5039	275.10	30960
37.10	427	121.10	183	198.00	148480	276.00	4529
38.00	574	122.10	1352	199.00	9353	277.00	2323
39.10	3892	123.10	1372	200.10	1146	278.00	355
40.10	694	124.00	1044	201.50	754	281.00	232
41.10	385	125.00	934	202.20	501	283.00	188
42.10	209	126.10	545	203.20	1009	284.00	302
43.20	184	127.10	69024	204.10	5177	285.00	449
44.00	648	128.10	4871	205.10	10494	293.10	361
47.10	842	129.00	28264	206.10	39088	294.10	202
48.00	179	130.10	2009	207.00	5584	294.80	414
49.10	2241	131.10	632	208.00	1402	296.00	9701
50.10	14135	132.90	270	208.80	611	297.20	950
51.10	53408	134.00	842	209.80	245	297.90	190
52.10	2585	135.00	2694	210.40	1049	300.80	339
55.10	458	135.70	286	211.10	1673	302.10	441
56.10	1727	136.20	496	215.10	274	303.10	1324
57.10	5544	136.90	976	215.90	602	304.10	408
58.10	260	137.60	463	217.00	10641	311.70	187
59.20	348	138.10	592	218.00	1097	313.20	213
60.40	152	140.10	265	220.10	393	313.80	475
61.00	741	141.10	3103	221.00	8297	315.00	1312
61.90	666	142.10	1256	221.60	2401	316.10	234
63.00	2327	142.90	396	223.00	2308	316.80	174
64.00	317	144.00	174	224.00	17088	317.20	221
65.20	1155	146.00	266	225.00	5918	318.70	236
67.00	584	147.20	1358	227.10	7668	319.70	296
68.10	974	148.00	4546	228.00	1090	321.10	191
69.00	73888	148.90	1750	229.10	2064	323.00	2039
73.10	933	151.10	335	230.10	347	324.10	997
74.10	5996	151.90	307	231.10	1050	327.00	753
75.10	9624	153.10	950	232.90	278	332.80	478
76.00	3029	154.00	837	233.90	631	334.00	1890
77.10	73280	155.00	1807	235.10	792	335.00	798
78.10	4794	156.00	3136	235.90	507	340.60	288
79.10	4727	157.20	946	236.60	209	341.90	246
80.00	3530	157.70	1189	237.10	452	346.00	737
81.10	4393	159.00	434	238.90	596	350.90	304
82.00	1174	160.00	895	240.00	496	351.90	1816

83.00	1179	161.00	1927	241.10	332	352.90	818
84.00	1205	162.10	192	242.20	1056	354.00	1671
84.90	893	163.20	368	243.00	1420	355.00	290
86.00	2427	165.00	1042	244.10	18320	358.80	194
87.00	661	165.90	919	245.00	2301	363.80	217
88.00	257	167.10	7419	246.10	1866	365.00	4054
89.30	453	168.10	4384	247.00	626	366.00	800
91.00	1255	169.10	783	247.90	238	372.00	2210
92.10	911	170.60	251	248.60	191	373.10	507
93.10	7482	171.30	200	249.10	721	373.70	221
94.10	563	171.90	646	250.00	166	382.60	204
95.20	228	173.10	892	251.80	192	383.10	459
95.90	294	174.00	1292	252.60	378	389.90	360
98.00	5765	175.10	3024	253.20	224	391.00	783
99.00	4456	176.20	641	253.70	517	402.00	969
99.90	201	176.90	1723	255.00	77936	403.00	980
101.10	2790	177.70	429	256.00	10529	404.30	461
102.10	267	179.00	5801	257.00	956	404.70	189
103.00	1861	180.00	2958	258.00	4023	421.00	691
104.00	964	181.10	1936	259.20	320	422.10	663
104.90	1556	182.00	164	260.20	186	422.90	2790
106.20	627	182.70	467	261.00	232	424.00	662
107.10	22032	185.10	2550	262.10	196	425.10	366
108.00	3092	186.00	18192	263.10	153	429.90	402
110.00	39968	187.10	5423	263.90	341	441.10	13309
111.10	6762	187.90	258	265.00	1209	442.00	96944
112.10	926	189.00	1541	265.70	334	443.00	18440
113.00	228	190.40	162	267.90	278	444.10	1727
115.00	404	192.00	2470	271.00	225	444.70	189
116.10	798	193.10	2220	272.00	571	471.10	330
117.00	15558	194.00	443	273.00	2465		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 13-MAR-2013 11:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.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

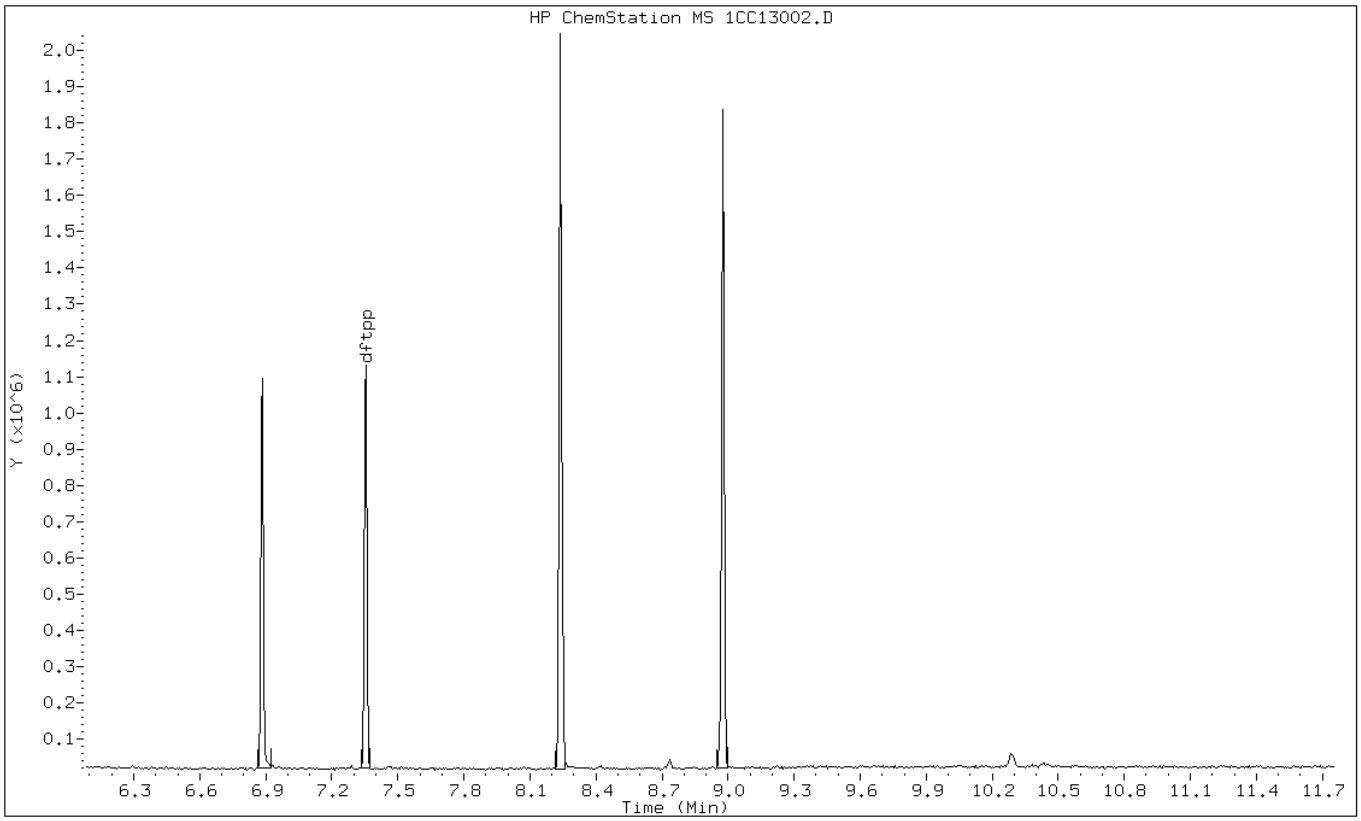
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.357	7.469	-0.112	198	122072			50.00- 0.00	100.00
7.357	7.469	-0.112	51	47232			10.00- 80.00	38.69
7.357	7.469	-0.112	68	625			0.00- 2.00	1.00
7.357	7.469	-0.112	69	62296			0.00- 0.00	51.03
7.357	7.469	-0.112	70	285			0.00- 2.00	0.46
7.357	7.469	-0.112	127	60536			10.00- 80.00	49.59
7.357	7.469	-0.112	197	1335			0.00- 2.00	1.09
7.357	7.469	-0.112	442	74472			50.00- 0.00	61.01
7.357	7.469	-0.112	199	10297			5.00- 9.00	8.44
7.357	7.469	-0.112	275	24632			10.00- 60.00	20.18
7.357	7.469	-0.112	365	3617			1.00- 0.00	2.96
7.357	7.469	-0.112	441	12748			0.01- 99.99	93.41
7.357	7.469	-0.112	443	13647			15.00- 24.00	18.33

Data File: 1CC13002.D

Date: 13-MAR-2013 11:33

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



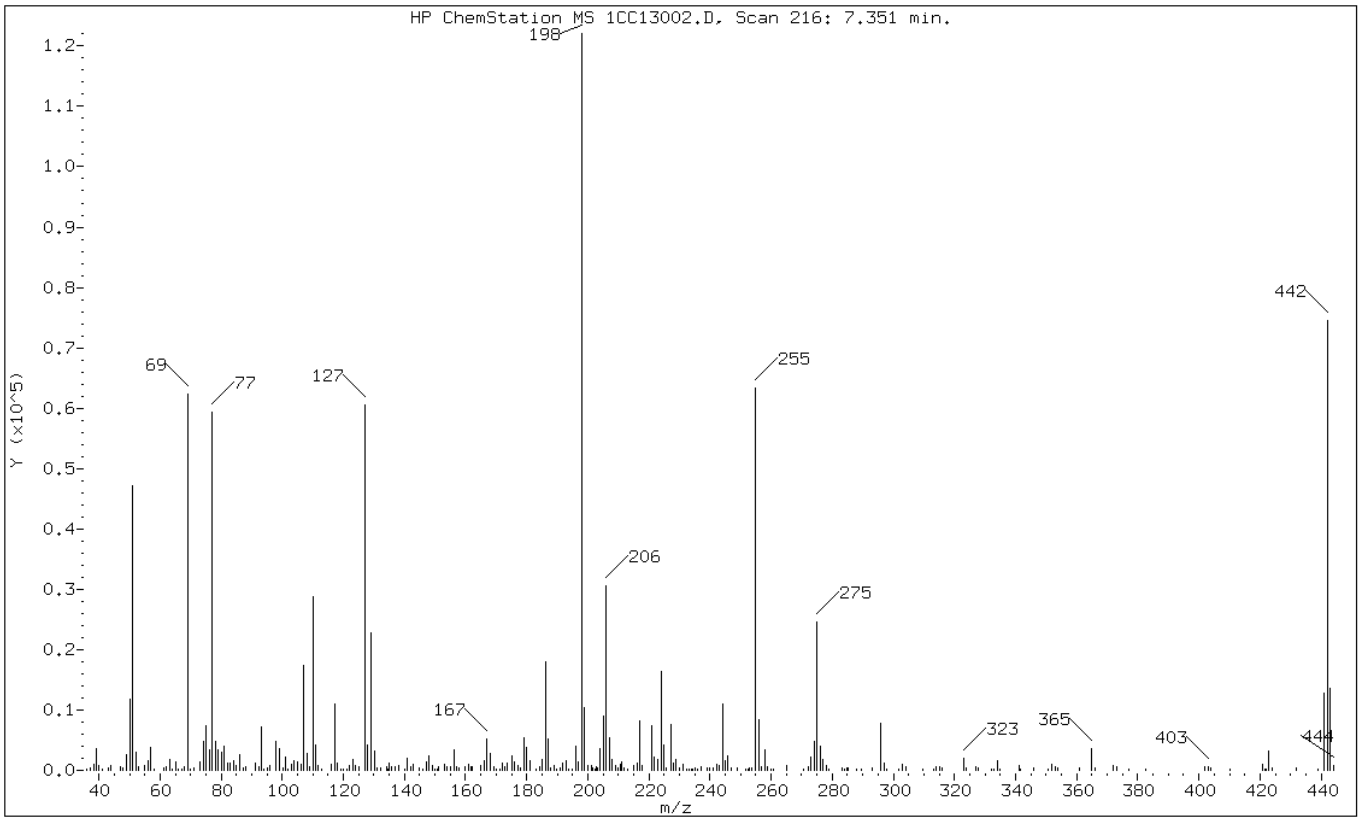
Data File: 1CC13002.D

Date: 13-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	38.69
68	Less than 2.00% of mass 69	0.51 (1.00)
69	Mass 69 relative abundance	51.03
70	Less than 2.00% of mass 69	0.23 (0.46)
127	10.00 - 80.00% of mass 198	49.59
197	Less than 2.00% of mass 198	1.09
442	Greater than 50.00% of mass 198	61.01
199	5.00 - 9.00% of mass 198	8.44
275	10.00 - 60.00% of mass 198	20.18
365	Greater than 1.00% of mass 198	2.96
441	Present, but less than mass 443	10.44
443	15.00 - 24.00% of mass 442	11.18 (18.33)

Data File: 1CC13002.D

Date: 13-MAR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13002.D
Spectrum: HP ChemStation MS 1CC13002.D, Scan 216: 7.351 min.
Location of Maximum: 198.00
Number of points: 271

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	177	116.10	1075	189.90	201	260.10	176
37.00	306	117.10	10896	191.10	359	260.90	211
38.20	960	118.00	1220	191.90	1145	264.90	831
39.00	3565	119.10	150	193.00	1685	270.70	210
40.00	808	120.10	206	193.80	155	272.10	680
41.00	215	121.10	174	194.90	253	273.00	2175
43.20	370	122.10	803	196.00	3956	274.00	4709
44.00	761	123.00	1766	196.70	1335	275.00	24632
47.20	566	123.90	704	198.00	122072	276.00	3971
48.00	498	125.10	597	199.00	10297	277.00	1881
49.10	2546	127.10	60536	200.10	719	278.00	850
50.10	11779	128.00	4178	201.10	707	279.00	231
51.10	47232	129.00	22856	201.60	443	283.10	391
52.10	2939	130.10	3131	202.30	156	284.10	167
53.00	573	131.20	306	202.80	517	284.90	463
55.10	723	132.10	320	203.30	466	285.10	461
56.00	1581	134.00	631	204.10	3669	288.00	160
57.00	3804	134.50	262	205.00	9037	289.60	157
58.10	207	135.10	1104	206.10	30488	293.10	484
61.10	459	135.90	625	207.10	5318	296.00	7843
62.00	603	137.00	593	208.00	1839	297.00	1230
63.10	1709	138.10	815	209.10	791	297.80	155
63.90	268	139.90	283	209.90	467	301.90	224
65.10	1363	141.00	2050	210.50	1047	303.00	903
66.10	289	142.10	624	211.10	1482	304.00	645
67.10	230	142.90	1017	211.80	346	309.70	158
68.10	625	144.80	351	213.10	226	313.00	186
69.10	62296	145.90	218	215.00	716	314.00	563
70.00	285	147.10	1349	216.10	1205	315.00	678
71.20	392	147.90	2469	217.00	8169	316.00	495
73.10	1455	149.10	814	217.90	780	323.00	2038
74.10	4699	150.00	181	221.00	7378	323.90	311
75.10	7384	150.80	279	221.60	2249	327.00	611
76.10	3379	151.30	602	223.00	1857	327.90	458
77.10	59400	153.00	922	224.00	16456	332.00	282
78.10	4864	154.00	501	225.00	4113	333.10	168
79.10	3380	155.20	670	225.80	363	333.90	1516
80.10	3069	156.10	3317	227.10	7589	334.70	153
81.00	4021	156.90	554	227.90	1186	341.00	758
82.10	1247	158.00	426	229.00	1712	341.60	172

83.10	1157	160.00	632	229.90	369	346.00	488
84.00	1499	161.00	1085	231.10	1053	350.70	185
85.00	783	161.60	560	232.20	200	352.00	977
86.00	2681	162.00	553	233.00	227	353.00	566
87.20	320	165.00	822	233.80	270	354.00	389
87.90	660	166.10	1603	234.20	292	360.80	421
91.10	1188	167.00	5224	235.00	404	365.00	3617
92.20	620	168.10	2768	235.90	213	366.00	413
93.10	7119	169.10	532	237.00	511	372.10	798
94.00	269	169.90	217	238.90	491	373.00	684
95.10	398	171.10	293	239.80	312	376.90	223
96.10	730	171.90	1110	240.90	435	382.70	276
98.00	4859	173.00	503	242.10	1007	401.80	572
99.00	3549	173.80	1130	243.00	866	403.00	606
100.30	359	175.00	2461	244.00	10907	403.90	335
101.00	2202	176.00	1346	245.00	1532	410.20	157
102.00	280	177.20	872	245.90	2492	421.00	965
103.10	916	177.90	387	247.00	339	421.50	181
104.00	1528	179.00	5483	248.90	371	422.10	174
105.10	1476	180.00	3835	251.60	153	422.90	3121
106.20	958	181.10	1645	252.30	245	424.10	336
107.10	17360	183.20	223	253.00	445	431.90	309
108.00	2786	184.10	545	253.60	368	439.10	194
109.00	564	185.10	1761	255.00	63384	441.00	12748
110.10	28736	186.10	18000	256.00	8296	442.00	74472
111.00	4252	187.10	5096	256.80	535	443.10	13647
111.90	861	187.90	478	258.00	3444	444.10	862
113.00	255	189.00	716	258.90	504		

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

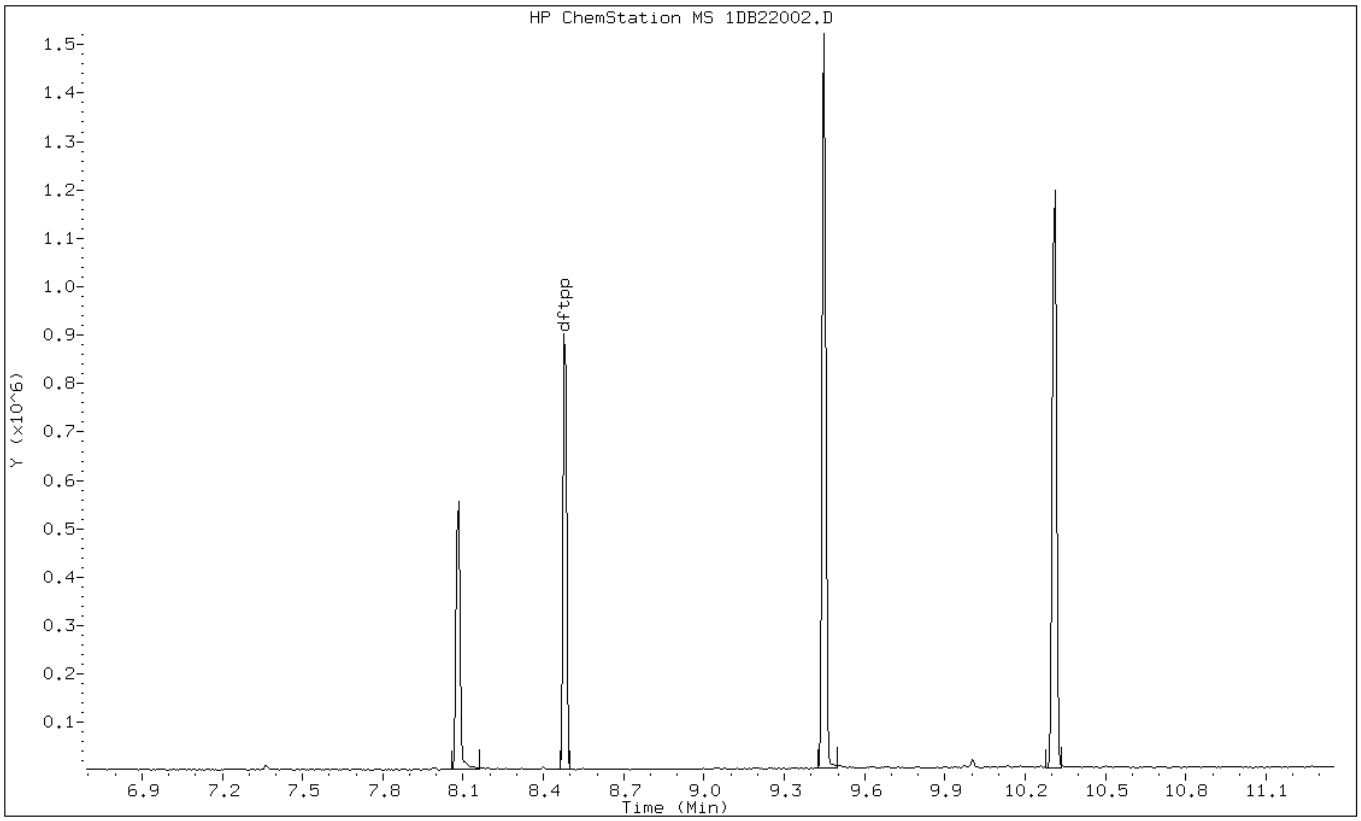
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	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



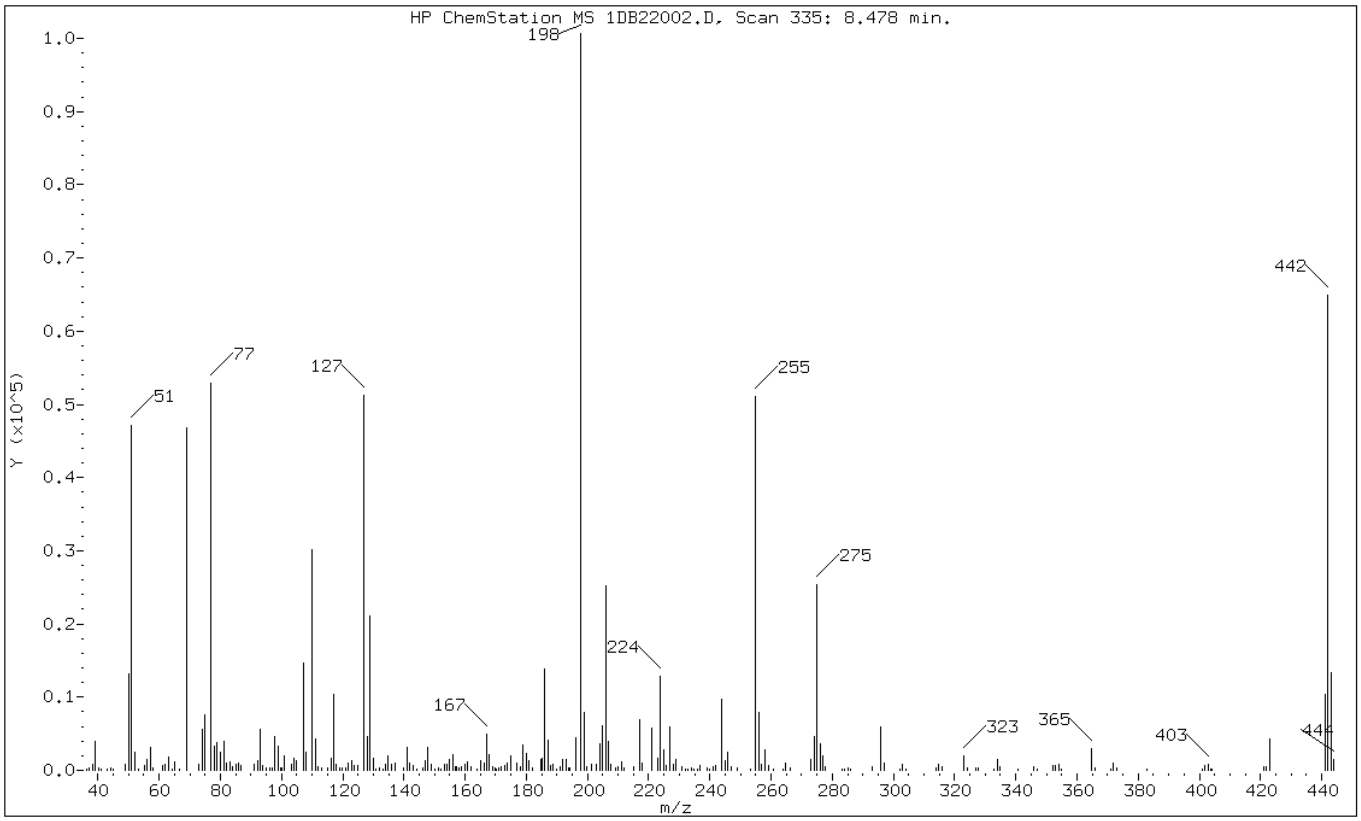
Data File: 1DB22002.D

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\1D031213.b\1DC12002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 12-MAR-2013 10:14
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.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

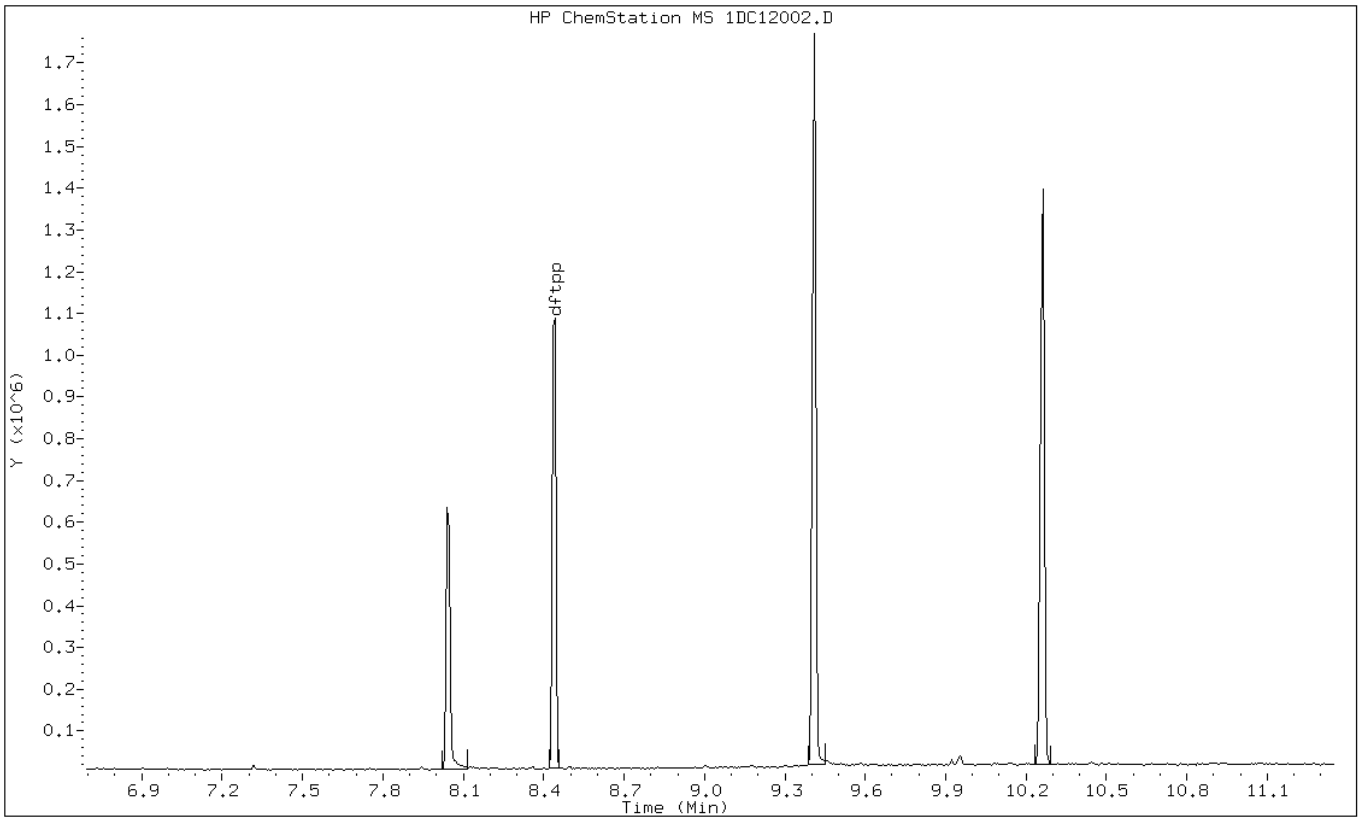
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.441	8.532	-0.091	198	120908			50.00- 0.00	100.00
8.441	8.532	-0.091	51	49356			10.00- 80.00	40.82
8.441	8.532	-0.091	68	0	0.0	0.0	0.00- 2.00	0.00
8.441	8.532	-0.091	69	50984			0.00- 0.00	42.17
8.441	8.532	-0.091	70	463			0.00- 2.00	0.91
8.441	8.532	-0.091	127	55876			10.00- 80.00	46.21
8.441	8.532	-0.091	197	0	0.0	0.0	0.00- 2.00	0.00
8.441	8.532	-0.091	442	108692			50.00- 0.00	89.90
8.441	8.532	-0.091	199	8135			5.00- 9.00	6.73
8.441	8.532	-0.091	275	33980			10.00- 60.00	28.10
8.441	8.532	-0.091	365	4075			1.00- 0.00	3.37
8.441	8.532	-0.091	441	10468			0.01- 99.99	49.20
8.441	8.532	-0.091	443	21278			15.00- 24.00	19.58

Data File: 1DC12002.D

Date: 12-MAR-2013 10:14

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



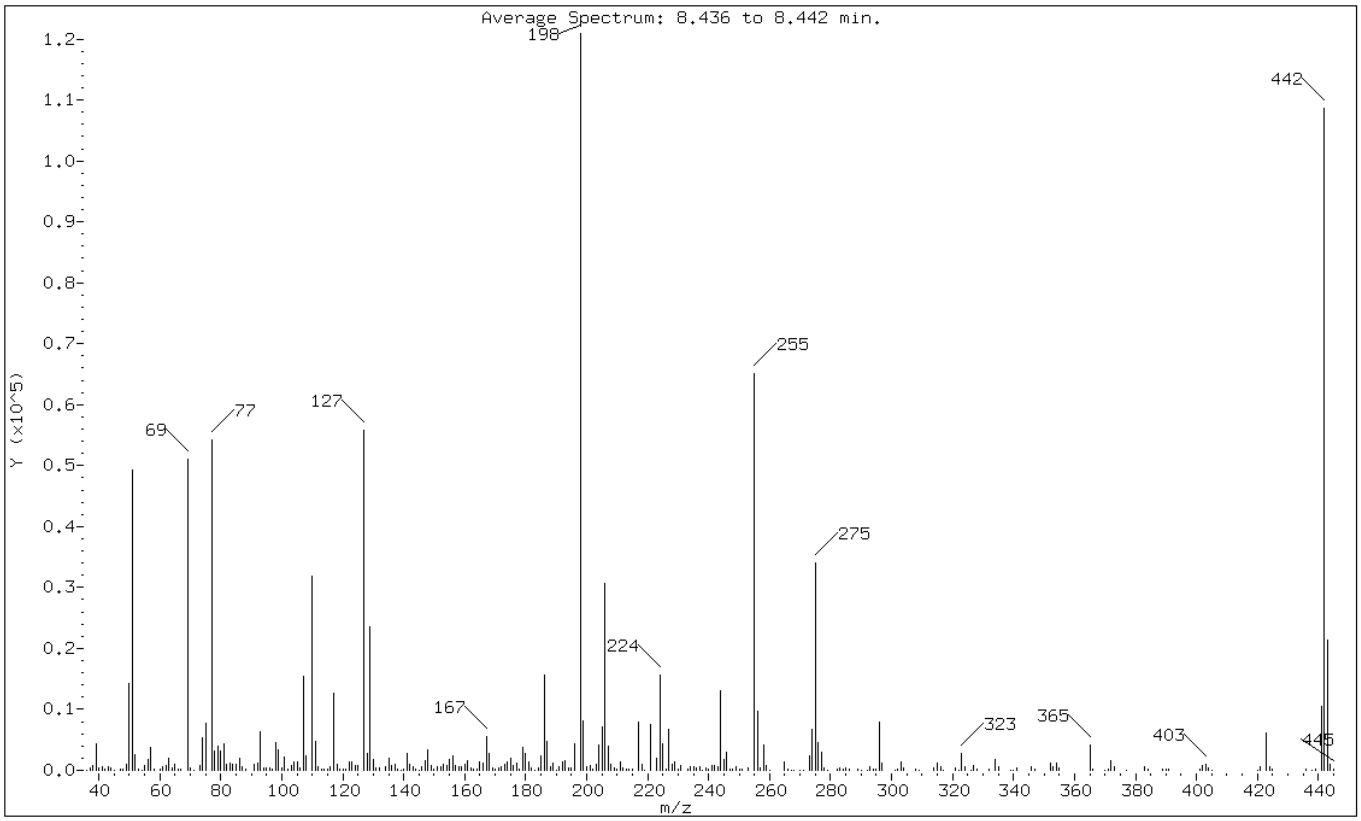
Data File: 1DC12002.D

Date: 12-MAR-2013 10:14

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	40.82
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.17
70	Less than 2.00% of mass 69	0.38 (0.91)
127	10.00 - 80.00% of mass 198	46.21
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	89.90
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 60.00% of mass 198	28.10
365	Greater than 1.00% of mass 198	3.37
441	Present, but less than mass 443	8.66
443	15.00 - 24.00% of mass 442	17.60 (19.58)

Data File: 1DC12002.D

Date: 12-MAR-2013 10:14

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12002.D
Spectrum: Average Spectrum: 8.436 to 8.442 min.
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	76	118.00	991	194.00	451	283.00	324
37.00	381	119.00	208	195.00	322	284.00	171
38.00	872	120.00	222	196.00	4259	285.00	419
39.00	4434	121.00	176	198.00	120904	286.00	102
40.00	342	122.00	1291	199.00	8135	289.00	108
41.00	609	123.00	1425	200.00	644	290.00	97
42.00	121	124.00	741	201.00	876	292.00	87
43.00	501	125.00	759	202.00	181	293.00	640
44.00	303	127.00	55872	203.00	933	294.00	162
45.00	75	128.00	2803	204.00	4122	295.00	161
47.00	272	129.00	23464	205.00	7093	296.00	7825
48.00	99	130.00	1856	206.00	30680	297.00	1271
49.00	969	131.00	367	207.00	3973	301.00	85
50.00	14192	132.00	478	208.00	1054	302.00	155
51.00	49352	134.00	677	209.00	339	303.00	1298
52.00	2667	135.00	1970	210.00	272	304.00	306
53.00	259	136.00	764	211.00	1305	308.00	188
54.00	76	137.00	1032	212.00	413	309.00	77
55.00	762	138.00	257	213.00	207	314.00	463
56.00	1724	139.00	92	214.00	162	315.00	1103
57.00	3676	140.00	165	215.00	286	316.00	607
58.00	159	141.00	2719	217.00	7926	317.00	85
60.00	145	142.00	1038	218.00	1028	321.00	345
61.00	635	143.00	653	219.00	79	322.00	91
62.00	844	144.00	277	221.00	7535	323.00	2737
63.00	1948	145.00	86	223.00	1920	324.00	587
64.00	430	146.00	640	224.00	15658	326.00	90
65.00	948	147.00	1574	225.00	4261	327.00	727
66.00	106	148.00	3300	226.00	262	328.00	274
67.00	268	149.00	711	227.00	6655	332.00	167
69.00	50984	150.00	276	228.00	958	334.00	1711
70.00	463	151.00	637	229.00	1456	335.00	529
71.00	87	152.00	643	230.00	215	339.00	79
73.00	816	153.00	941	231.00	731	340.00	96
74.00	5272	154.00	763	233.00	197	341.00	405
75.00	7701	155.00	1799	234.00	495	346.00	642
77.00	54240	156.00	2441	235.00	640	347.00	234
78.00	3095	157.00	771	236.00	388	352.00	1164
79.00	3969	158.00	600	237.00	519	353.00	639
80.00	3247	159.00	547	238.00	98	354.00	1125

81.00	4316	160.00	927	239.00	332	355.00	350
82.00	1048	161.00	1514	240.00	283	365.00	4075
83.00	1107	162.00	406	241.00	794	366.00	142
84.00	1059	163.00	284	242.00	842	370.00	77
85.00	983	164.00	235	243.00	538	371.00	125
86.00	2065	165.00	1353	244.00	13121	372.00	1673
87.00	560	166.00	1126	245.00	1802	373.00	657
88.00	278	167.00	5578	246.00	3004	377.00	82
91.00	1074	168.00	2677	247.00	247	383.00	522
92.00	1238	169.00	476	248.00	133	384.00	128
93.00	6355	170.00	213	249.00	616	389.00	136
94.00	421	171.00	331	250.00	270	390.00	118
95.00	402	172.00	599	251.00	257	391.00	102
96.00	340	173.00	932	253.00	422	401.00	135
97.00	183	174.00	1454	255.00	65160	402.00	717
98.00	4630	175.00	2073	256.00	9668	403.00	930
99.00	3403	176.00	768	257.00	433	404.00	406
100.00	361	177.00	1265	258.00	4128	405.00	90
101.00	2169	178.00	286	259.00	733	420.00	80
102.00	100	179.00	3804	260.00	81	421.00	686
103.00	863	180.00	2802	265.00	1404	423.00	6053
104.00	1419	181.00	1382	266.00	255	424.00	545
105.00	1480	182.00	349	267.00	95	425.00	101
106.00	376	183.00	87	268.00	82	436.00	120
107.00	15523	184.00	353	270.00	85	438.00	95
108.00	2456	185.00	2428	271.00	75	439.00	247
110.00	31888	186.00	15680	273.00	2338	441.00	10468
111.00	4842	187.00	4708	274.00	6701	442.00	108688
112.00	595	188.00	512	275.00	33976	443.00	21272
113.00	232	189.00	1163	276.00	4483	444.00	941
114.00	101	190.00	93	277.00	2970	445.00	106
115.00	108	191.00	606	278.00	462		
116.00	517	192.00	1381	279.00	84		
117.00	12691	193.00	1579	282.00	257		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: | Lab Sample ID: MB 660-135195/1-A

Matrix: Solid | Lab File ID: 1DC12005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.32(g) | Date Analyzed: 03/12/2013 11:18

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.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12005.D
Lab Smp Id: MB 660-135195/1-A
Inj Date : 12-MAR-2013 11:18
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-135195/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.148	6.149	(1.000)	2630581	40.0000	
* 6 Acenaphthene-d10	164	7.817	7.818	(1.000)	1646495	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2887075	40.0000	
$ 13 o-Terphenyl	230	9.380	9.386	(1.033)	261093	5.84810	380(H)
* 17 Chrysene-d12	240	11.413	11.414	(1.000)	3108448	40.0000	
* 22 Perylene-d12	264	13.281	13.282	(1.000)	3283581	40.0000	

QC Flag Legend

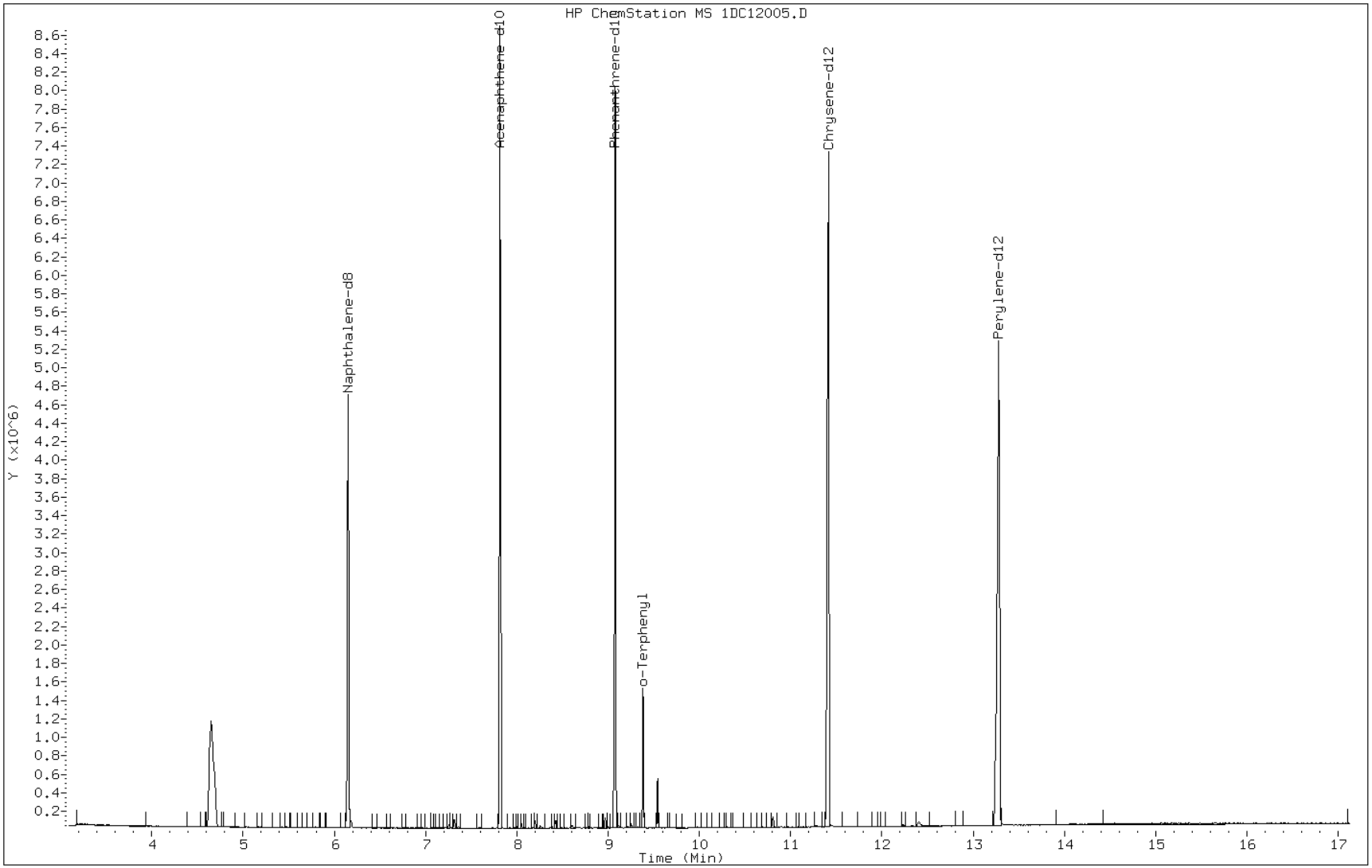
H - Operator selected an alternate compound hit.

Data File: 1DC12005.D

Date: 12-MAR-2013 11:18

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-135195/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: | Lab Sample ID: MB 660-135207/1-A

Matrix: Solid | Lab File ID: 1CC12005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/08/2013 12:51

Sample wt/vol: 15.04(g) | Date Analyzed: 03/12/2013 13:27

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.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12005.D
Lab Smp Id: mb 660-135207/1-a
Inj Date : 12-MAR-2013 13:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135207/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

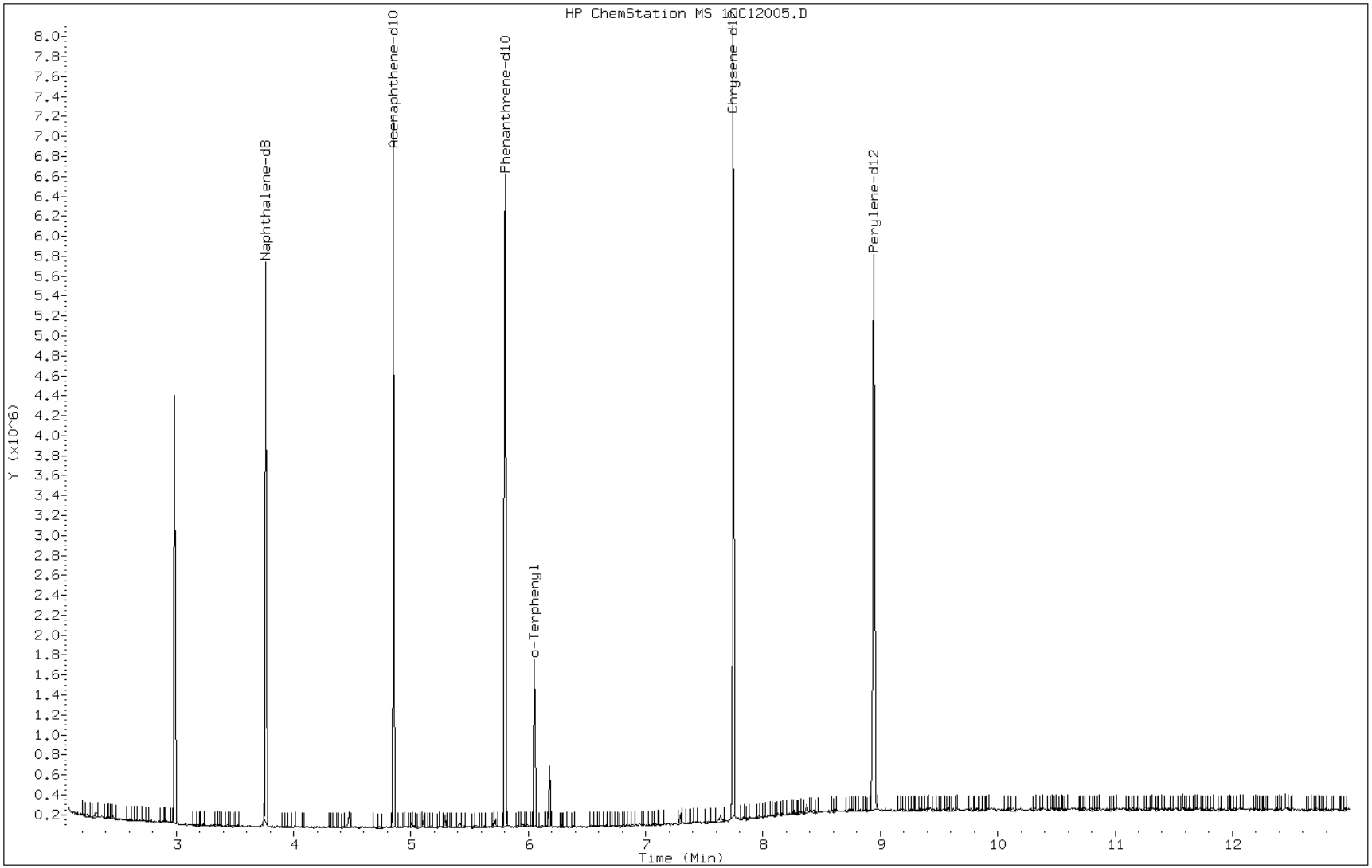
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1140906	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	886964	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1760135	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	218425	8.21918	546.4879
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2080730	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	2080573	40.0000	

Data File: 1CC12005.D

Date: 12-MAR-2013 13:27

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135207/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88065-1
SDG No.: 68088065-1
Client Sample ID:
Lab Sample ID: MB 660-135246/1-A
Matrix: Water
Lab File ID: 1CC13005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3520C
Date Extracted: 03/11/2013 10:17
Sample wt/vol: 1000(mL)
Date Analyzed: 03/13/2013 12:35
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.: 135360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13005.D
Lab Smp Id: mb 660-135246/1-a
Inj Date : 13-MAR-2013 12:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135246/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/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

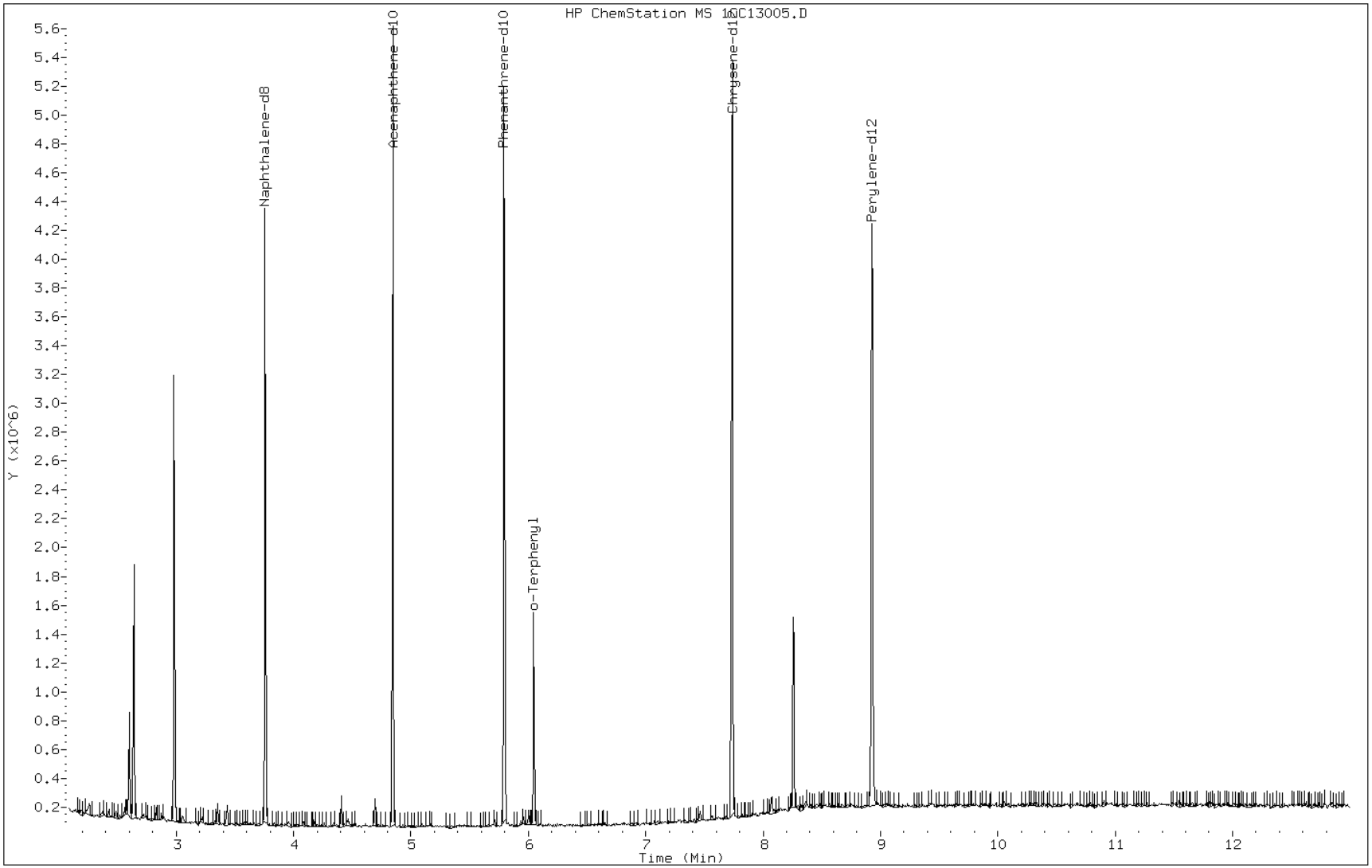
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.757	3.757	(1.000)	892048	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	685987	40.0000	
* 10 Phenanthrene-d10	188	5.792	5.798	(1.000)	1265470	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.044)	171950	8.99958	8.9995
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1480338	40.0000	
* 23 Perylene-d12	264	8.927	8.933	(1.000)	1541406	40.0000	

Data File: 1CC13005.D

Date: 13-MAR-2013 12:35

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135246/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88065-1
SDG No.: 68088065-1
Client Sample ID:
Lab Sample ID: LCS 660-135195/2-A
Matrix: Solid
Lab File ID: 1DC12006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/08/2013 10:18
Sample wt/vol: 15.24(g)
Date Analyzed: 03/12/2013 11:40
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.: 135345
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460		98	20
208-96-8	Acenaphthylene	482		39	4.9
120-12-7	Anthracene	488		8.3	4.1
56-55-3	Benzo[a]anthracene	510		7.9	3.8
50-32-8	Benzo[a]pyrene	457		10	5.1
205-99-2	Benzo[b]fluoranthene	479		12	6.0
191-24-2	Benzo[g,h,i]perylene	465		20	4.3
207-08-9	Benzo[k]fluoranthene	511		7.9	3.5
218-01-9	Chrysene	478		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	504		20	4.0
206-44-0	Fluoranthene	523		20	3.9
86-73-7	Fluorene	497		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	476		20	7.0
90-12-0	1-Methylnaphthalene	521		39	4.3
91-57-6	2-Methylnaphthalene	505		39	7.0
91-20-3	Naphthalene	463		39	4.3
85-01-8	Phenanthrene	478		7.9	3.8
129-00-0	Pyrene	461		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12006.D
Lab Smp Id: LCS 660-135195/2-A
Inj Date : 12-MAR-2013 11:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-135195/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.151	6.149	(1.000)	2235596	40.0000	
* 6 Acenaphthene-d10	164	7.820	7.818	(1.000)	1441164	40.0000	
* 9 Phenanthrene-d10	188	9.077	9.075	(1.000)	2457018	40.0000	
$ 13 o-Terphenyl	230	9.383	9.386	(1.034)	277725	7.30944	480
* 17 Chrysene-d12	240	11.416	11.414	(1.000)	2672697	40.0000	
* 22 Perylene-d12	264	13.278	13.282	(1.000)	2790655	40.0000	
2 Naphthalene	128	6.169	6.173	(1.003)	422229	7.06025	460
3 2-Methylnaphthalene	142	6.868	6.872	(1.117)	292938	7.68957	500
4 1-Methylnaphthalene	142	6.962	6.960	(1.132)	283453	7.94568	520
5 Acenaphthylene	152	7.691	7.688	(0.983)	466467	7.34162	480
7 Acenaphthene	154	7.844	7.847	(1.003)	271875	7.01787	460
8 Fluorene	166	8.284	8.288	(1.059)	342739	7.57211	500
10 Phenanthrene	178	9.095	9.099	(1.002)	507863	7.28154	480
11 Anthracene	178	9.136	9.140	(1.006)	519289	7.44148	490

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.271	9.275	(1.021)	438002	7.02118	460
14 Fluoranthene	202	10.076	10.080	(1.110)	579726	7.96482	520
15 Pyrene	202	10.264	10.268	(0.899)	582931	7.03135	460
16 Benzo(a)anthracene	228	11.392	11.396	(0.998)	569159	7.77831	510
18 Chrysene	228	11.433	11.443	(1.002)	550711	7.29003	480
19 Benzo(b)fluoranthene	252	12.720	12.730	(0.958)	523916	7.29374	480
20 Benzo(k)fluoranthene	252	12.755	12.765	(0.961)	585508	7.78504	510
21 Benzo(a)pyrene	252	13.173	13.188	(0.992)	495597	6.97213	460
23 Indeno(1,2,3-cd)pyrene	276	14.876	14.898	(1.120)	550827	7.26127	480(M)
24 Dibenzo(a,h)anthracene	278	14.912	14.927	(1.123)	538520	7.68691	500
25 Benzo(g,h,i)perylene	276	15.329	15.356	(1.154)	512680	7.08844	460

QC Flag Legend

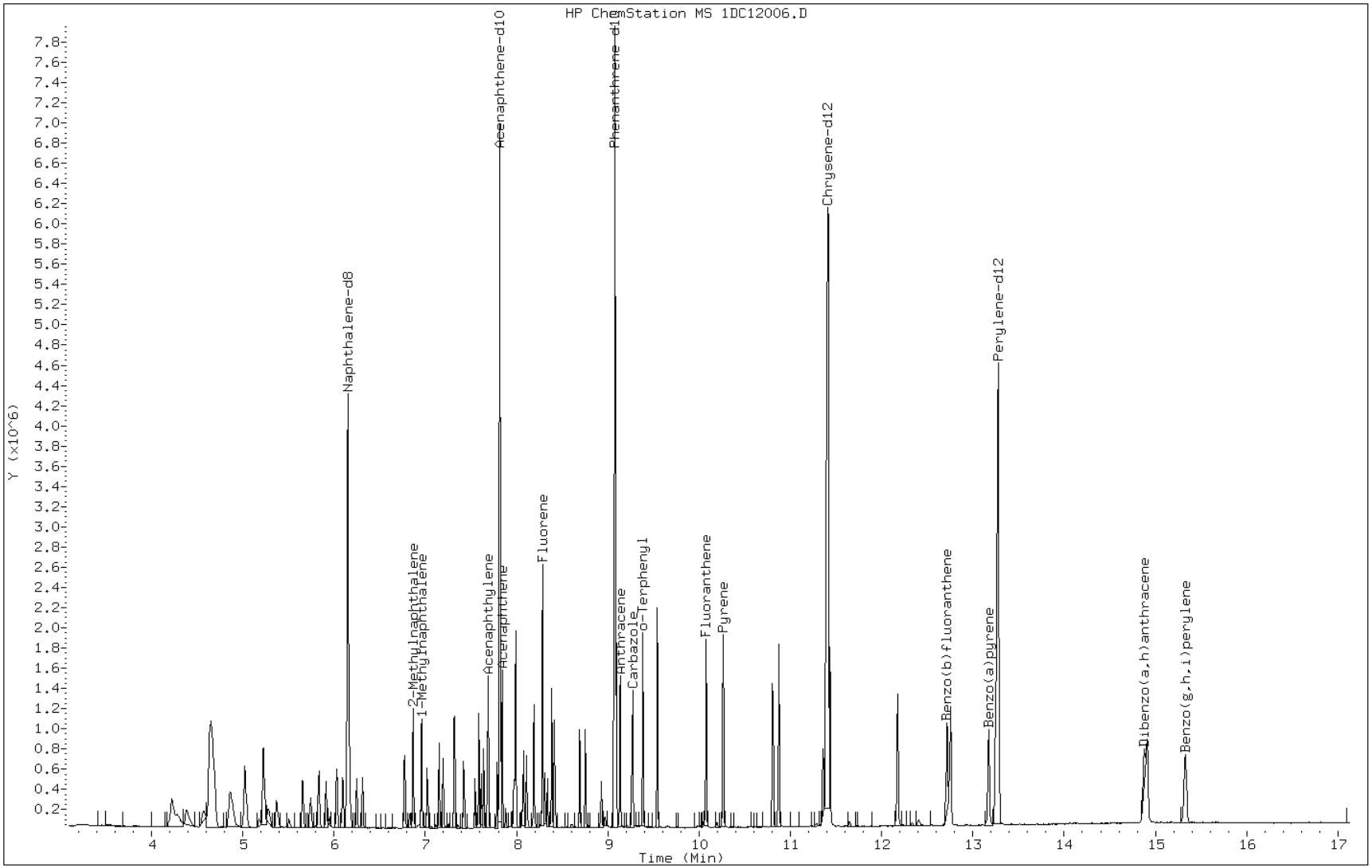
M - Compound response manually integrated.

Data File: 1DC12006.D

Date: 12-MAR-2013 11:40

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-135195/2-A Operator: SCC



Manual Integration Report

Data File: 1DC12006.D
Inj. Date and Time: 12-MAR-2013 11:40
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

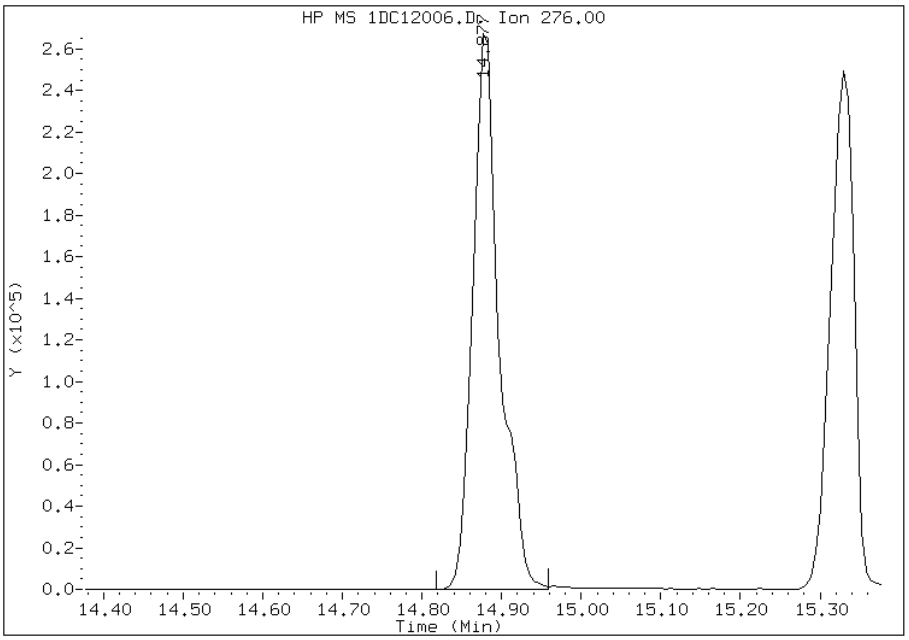
Processing Integration Results

RT: 14.88

Response: 619021

Amount: 8

Conc: 535



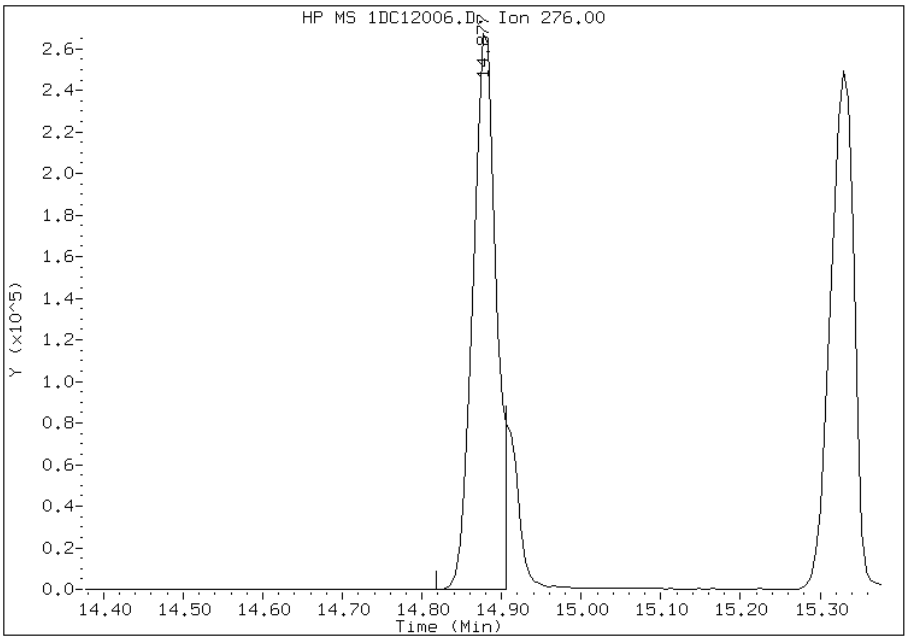
Manual Integration Results

RT: 14.88

Response: 550827

Amount: 7

Conc: 476



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 11:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88065-1
SDG No.: 68088065-1
Client Sample ID:
Lab Sample ID: LCS 660-135207/2-A
Matrix: Solid
Lab File ID: 1CC12006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/08/2013 12:51
Sample wt/vol: 14.92(g)
Date Analyzed: 03/12/2013 13:45
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135316
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490		100	20
208-96-8	Acenaphthylene	539		40	5.0
120-12-7	Anthracene	518		8.4	4.2
56-55-3	Benzo[a]anthracene	530		8.0	3.9
50-32-8	Benzo[a]pyrene	497		10	5.2
205-99-2	Benzo[b]fluoranthene	511		12	6.1
191-24-2	Benzo[g,h,i]perylene	505		20	4.4
207-08-9	Benzo[k]fluoranthene	563		8.0	3.6
218-01-9	Chrysene	487		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	543		20	4.1
206-44-0	Fluoranthene	531		20	4.0
86-73-7	Fluorene	547		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	481		20	7.1
90-12-0	1-Methylnaphthalene	563		40	4.4
91-57-6	2-Methylnaphthalene	515		40	7.1
91-20-3	Naphthalene	504		40	4.4
85-01-8	Phenanthrene	473		8.0	3.9
129-00-0	Pyrene	537		20	3.7

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\1C031213.b\1CC12006.D
Lab Smp Id: lcs 660-135207/2-a
Inj Date : 12-MAR-2013 13:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135207/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	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	3.763	3.763	(1.000)	1062964	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	836956	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1639915	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	190752	7.70406	516.3581
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	1943509	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	1969433	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	208121	7.52073	504.0705
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	141888	7.68662	515.1891
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	141221	8.40011	563.0098
5 Acenaphthylene	152	4.763	4.763	(0.982)	271597	8.04888	539.4694
7 Acenaphthene	154	4.869	4.868	(1.004)	153339	7.31111	490.0204
9 Fluorene	166	5.192	5.192	(1.070)	216635	8.16729	547.4052
11 Phenanthrene	178	5.816	5.815	(1.002)	334659	7.05747	473.0209
12 Anthracene	178	5.851	5.851	(1.008)	358106	7.72187	517.5513

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.957	5.957	(1.026)	320649	7.77809	521.3195
15 Fluoranthene	202	6.657	6.657	(1.147)	411205	7.91850	530.7307
16 Pyrene	202	6.821	6.827	(0.881)	418570	8.01413	537.1399
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	443972	7.91487	530.4870
19 Chrysene	228	7.762	7.768	(1.002)	407939	7.26703	487.0665
20 Benzo(b)fluoranthene	252	8.586	8.592	(0.960)	392318	7.62247	510.8895
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	443398	8.39788	562.8606
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	370758	7.41622	497.0654
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	337820	7.18321	481.4481(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	372805	8.10426	543.1810
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	371041	7.54203	505.4980

QC Flag Legend

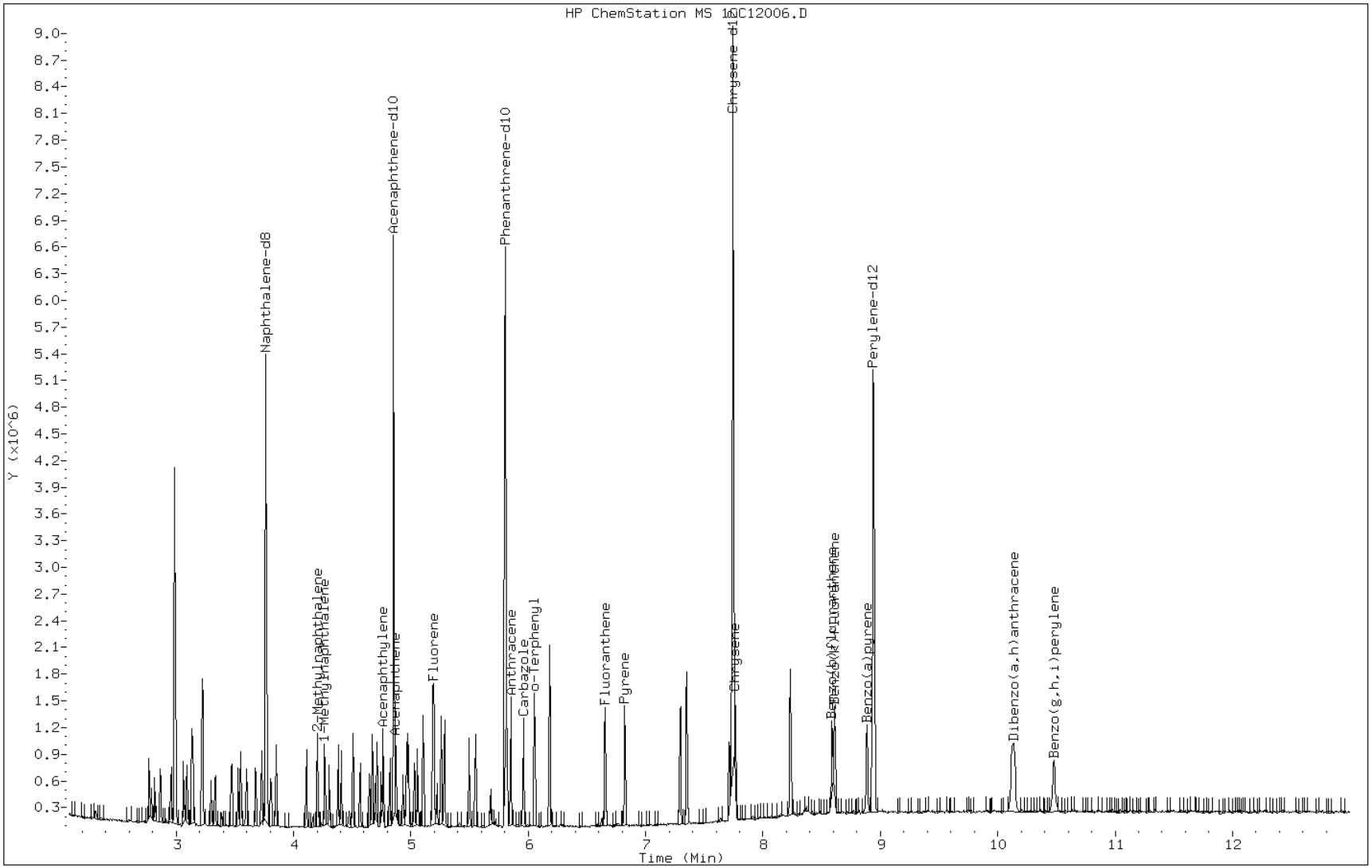
M - Compound response manually integrated.

Data File: 1CC12006.D

Date: 12-MAR-2013 13:45

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135207/2-a Operator: SCC



Manual Integration Report

Data File: 1CC12006.D
Inj. Date and Time: 12-MAR-2013 13:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

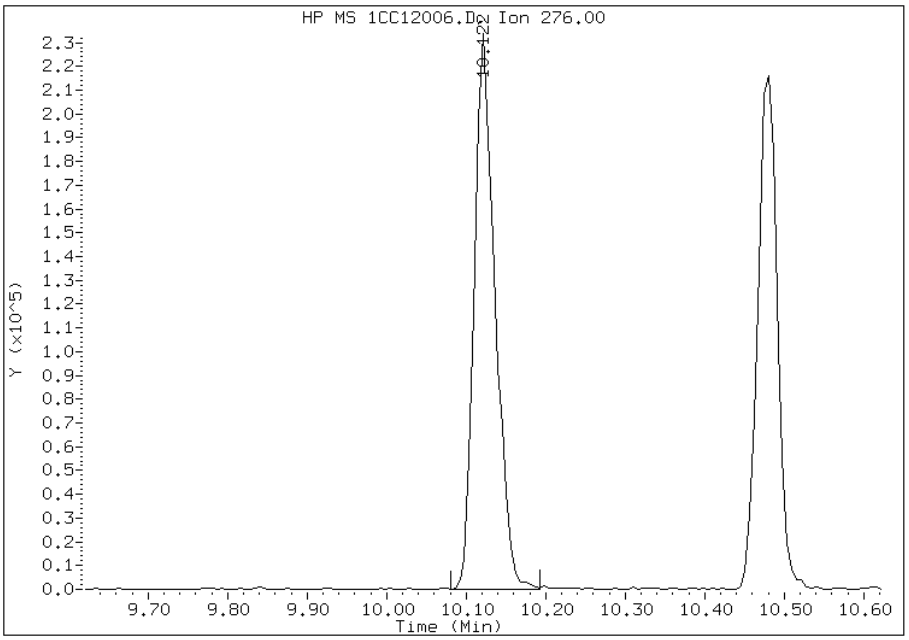
Processing Integration Results

RT: 10.12

Response: 421565

Amount: 9

Conc: 601



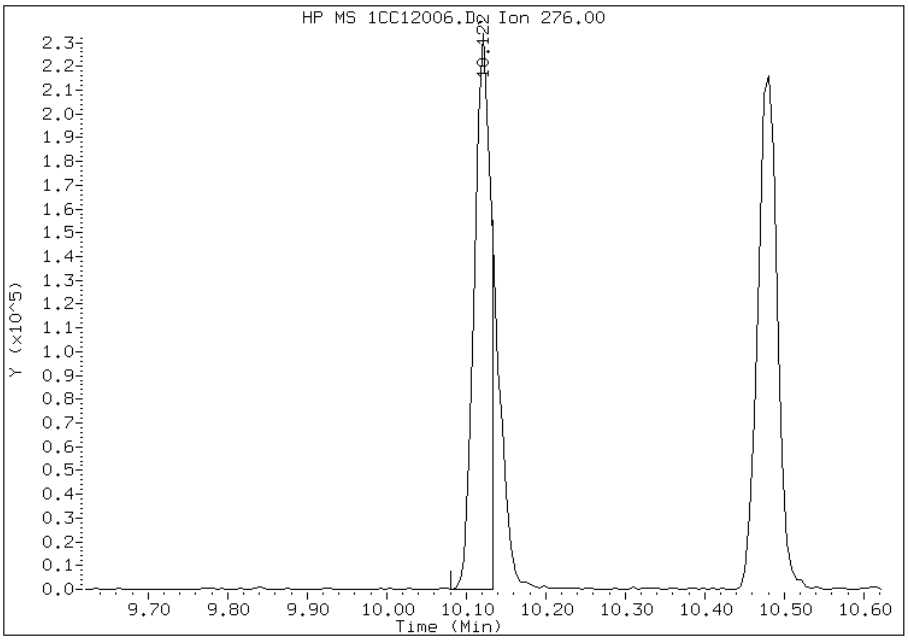
Manual Integration Results

RT: 10.12

Response: 337820

Amount: 7

Conc: 481



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88065-1
SDG No.: 68088065-1
Client Sample ID:
Lab Sample ID: LCS 660-135246/2-A
Matrix: Water
Lab File ID: 1CC13006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3520C
Date Extracted: 03/11/2013 10:17
Sample wt/vol: 1000(mL)
Date Analyzed: 03/13/2013 12:54
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.: 135360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9.86		2.0	0.50
208-96-8	Acenaphthylene	9.65		1.0	0.25
120-12-7	Anthracene	8.69		0.20	0.076
56-55-3	Benzo[a]anthracene	8.88		0.20	0.050
50-32-8	Benzo[a]pyrene	6.62		0.20	0.057
205-99-2	Benzo[b]fluoranthene	9.42		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	7.46		0.50	0.10
207-08-9	Benzo[k]fluoranthene	8.74		0.20	0.057
218-01-9	Chrysene	8.67		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	7.90		0.20	0.050
206-44-0	Fluoranthene	9.41		0.50	0.054
86-73-7	Fluorene	9.95		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	7.06		0.20	0.050
90-12-0	1-Methylnaphthalene	10.1		2.0	0.50
91-57-6	2-Methylnaphthalene	9.43		2.0	0.50
91-20-3	Naphthalene	9.28		2.0	0.25
85-01-8	Phenanthrene	9.45		0.50	0.20
129-00-0	Pyrene	9.26		0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13006.D
Lab Smp Id: lcs 660-135246/2-a
Inj Date : 13-MAR-2013 12:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135246/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/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	3.757	3.757	(1.000)	929453	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	715429	40.0000	
* 10 Phenanthrene-d10	188	5.792	5.798	(1.000)	1355559	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.044)	184235	9.00173	9.0017
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1652468	40.0000	
* 23 Perylene-d12	264	8.927	8.933	(1.000)	1673461	40.0000	
2 Naphthalene	128	3.769	3.768	(1.003)	224575	9.28104	9.2810
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	152143	9.42612	9.4261
4 1-Methylnaphthalene	142	4.263	4.262	(1.135)	148046	10.0710	10.0710
5 Acenaphthylene	152	4.757	4.757	(0.982)	278218	9.64566	9.6456
7 Acenaphthene	154	4.863	4.862	(1.004)	176684	9.85516	9.8551
9 Fluorene	166	5.186	5.186	(1.070)	225683	9.95369	9.9536
11 Phenanthrene	178	5.810	5.809	(1.003)	370589	9.45458	9.4545
12 Anthracene	178	5.845	5.845	(1.009)	333151	8.69070	8.6906
13 Carbazole	167	5.951	5.951	(1.027)	334759	9.82377	9.8237
15 Fluoranthene	202	6.645	6.651	(1.147)	403948	9.41051	9.4105
16 Pyrene	202	6.815	6.815	(0.881)	411360	9.26326	9.2632

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.727	7.733	(0.998)	423718	8.88420	8.8842
19 Chrysene	228	7.756	7.762	(1.002)	413768	8.66907	8.6690
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.961)	411856	9.41735	9.4173
21 Benzo(k)fluoranthene	252	8.598	8.603	(0.963)	391915	8.73561	8.7356
22 Benzo(a)pyrene	252	8.874	8.880	(0.994)	281205	6.61973	6.6197
24 Indeno(1,2,3-cd)pyrene	276	10.103	10.115	(1.132)	282097	7.05923	7.0592(M)
25 Dibenzo(a,h)anthracene	278	10.121	10.133	(1.134)	308693	7.89740	7.8973
26 Benzo(g,h,i)perylene	276	10.456	10.474	(1.171)	312028	7.46424	7.4642

QC Flag Legend

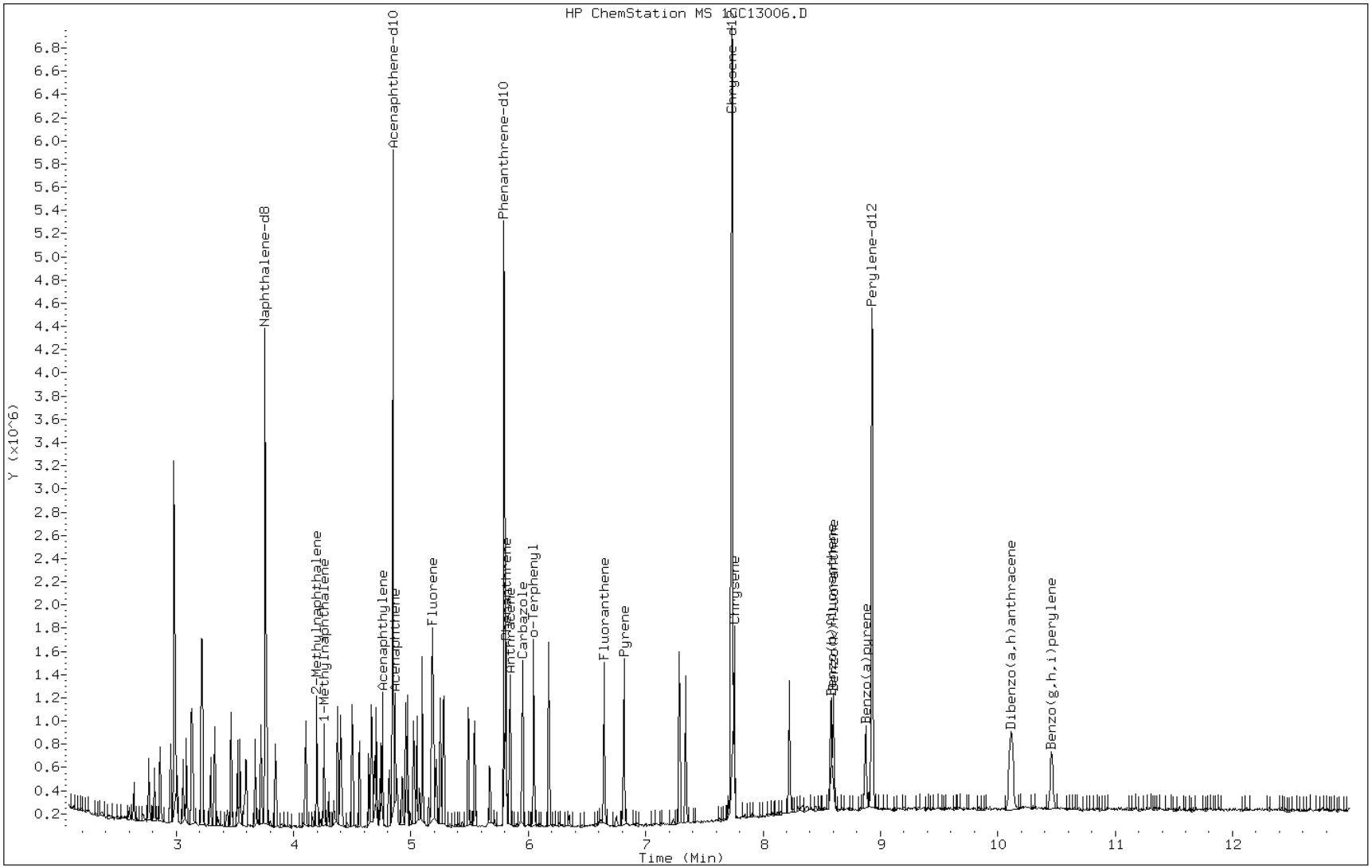
M - Compound response manually integrated.

Data File: 1CC13006.D

Date: 13-MAR-2013 12:54

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135246/2-a Operator: SCC



Manual Integration Report

Data File: 1CC13006.D
Inj. Date and Time: 13-MAR-2013 12:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/14/2013

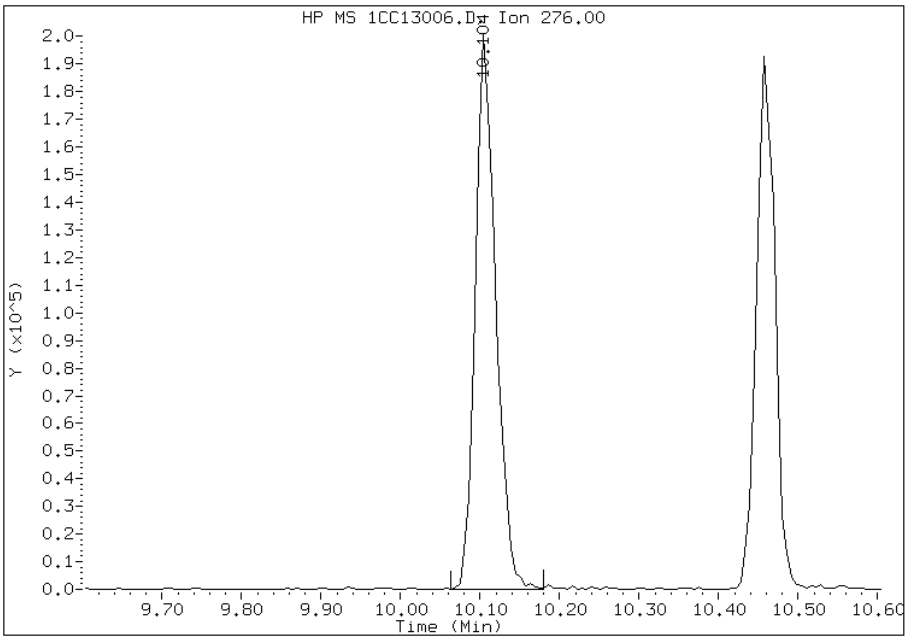
Processing Integration Results

RT: 10.10

Response: 355097

Amount: 9

Conc: 9



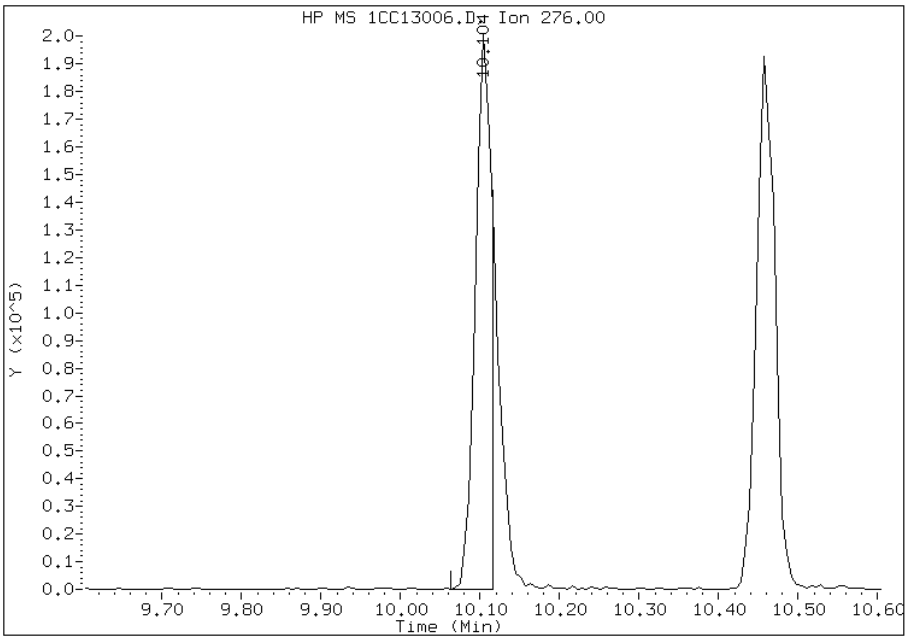
Manual Integration Results

RT: 10.10

Response: 282097

Amount: 7

Conc: 7



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 10:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88065-1
SDG No.: 68088065-1
Client Sample ID:
Lab Sample ID: LCSD 660-135246/3-A
Matrix: Water
Lab File ID: 1CC13007.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3520C
Date Extracted: 03/11/2013 10:17
Sample wt/vol: 1000(mL)
Date Analyzed: 03/13/2013 13:12
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135360
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9.52		2.0	0.50
208-96-8	Acenaphthylene	9.37		1.0	0.25
120-12-7	Anthracene	8.42		0.20	0.076
56-55-3	Benzo[a]anthracene	8.54		0.20	0.050
50-32-8	Benzo[a]pyrene	5.54		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.75		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	4.72		0.50	0.10
207-08-9	Benzo[k]fluoranthene	7.47		0.20	0.057
218-01-9	Chrysene	8.26		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	4.44		0.20	0.050
206-44-0	Fluoranthene	9.42		0.50	0.054
86-73-7	Fluorene	10.1		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	4.60		0.20	0.050
90-12-0	1-Methylnaphthalene	10.1		2.0	0.50
91-57-6	2-Methylnaphthalene	9.96		2.0	0.50
91-20-3	Naphthalene	9.79		2.0	0.25
85-01-8	Phenanthrene	9.07		0.50	0.20
129-00-0	Pyrene	9.73		0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\1CC13007.D
Lab Smp Id: lcsd 660-135246/3-a
Inj Date : 13-MAR-2013 13:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcsd 660-135246/3-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 12:12 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 7 QC Sample: LCSD
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	3.757	3.757	(1.000)	886784	40.0000	
* 6 Acenaphthene-d10	164	4.845	4.845	(1.000)	710434	40.0000	
* 10 Phenanthrene-d10	188	5.798	5.798	(1.000)	1333526	40.0000	
$ 14 o-Terphenyl	230	6.045	6.045	(1.043)	172313	8.55832	8.5583
* 18 Chrysene-d12	240	7.739	7.739	(1.000)	1625117	40.0000	
* 23 Perylene-d12	264	8.927	8.933	(1.000)	1638621	40.0000	
2 Naphthalene	128	3.769	3.768	(1.003)	225938	9.78665	9.7866
3 2-Methylnaphthalene	142	4.198	4.198	(1.117)	153404	9.96156	9.9615
4 1-Methylnaphthalene	142	4.257	4.262	(1.133)	141887	10.1165	10.1164
5 Acenaphthylene	152	4.757	4.757	(0.982)	268485	9.37367	9.3736
7 Acenaphthene	154	4.863	4.862	(1.004)	169485	9.52008	9.5200
9 Fluorene	166	5.186	5.186	(1.070)	227415	10.1006	10.1005
11 Phenanthrene	178	5.810	5.809	(1.002)	349867	9.07339	9.0733
12 Anthracene	178	5.845	5.845	(1.008)	317649	8.42322	8.4232
13 Carbazole	167	5.951	5.951	(1.026)	331735	9.89587	9.8958
15 Fluoranthene	202	6.651	6.651	(1.147)	397976	9.42457	9.4245
16 Pyrene	202	6.815	6.815	(0.881)	424782	9.72649	9.7264

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.727	7.733	(0.998)	400654	8.54200	8.5419
19 Chrysene	228	7.757	7.762	(1.002)	387732	8.26029	8.2602
20 Benzo(b)fluoranthene	252	8.580	8.586	(0.961)	288910	6.74657	6.7465
21 Benzo(k)fluoranthene	252	8.598	8.603	(0.963)	327947	7.46521	7.4652
22 Benzo(a)pyrene	252	8.874	8.880	(0.994)	230365	5.53823	5.5382
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.115	(1.132)	179906	4.59771	4.5977(M)
25 Dibenzo(a,h)anthracene	278	10.127	10.133	(1.134)	169775	4.43576	4.4357
26 Benzo(g,h,i)perylene	276	10.462	10.474	(1.172)	193402	4.72487	4.7248

QC Flag Legend

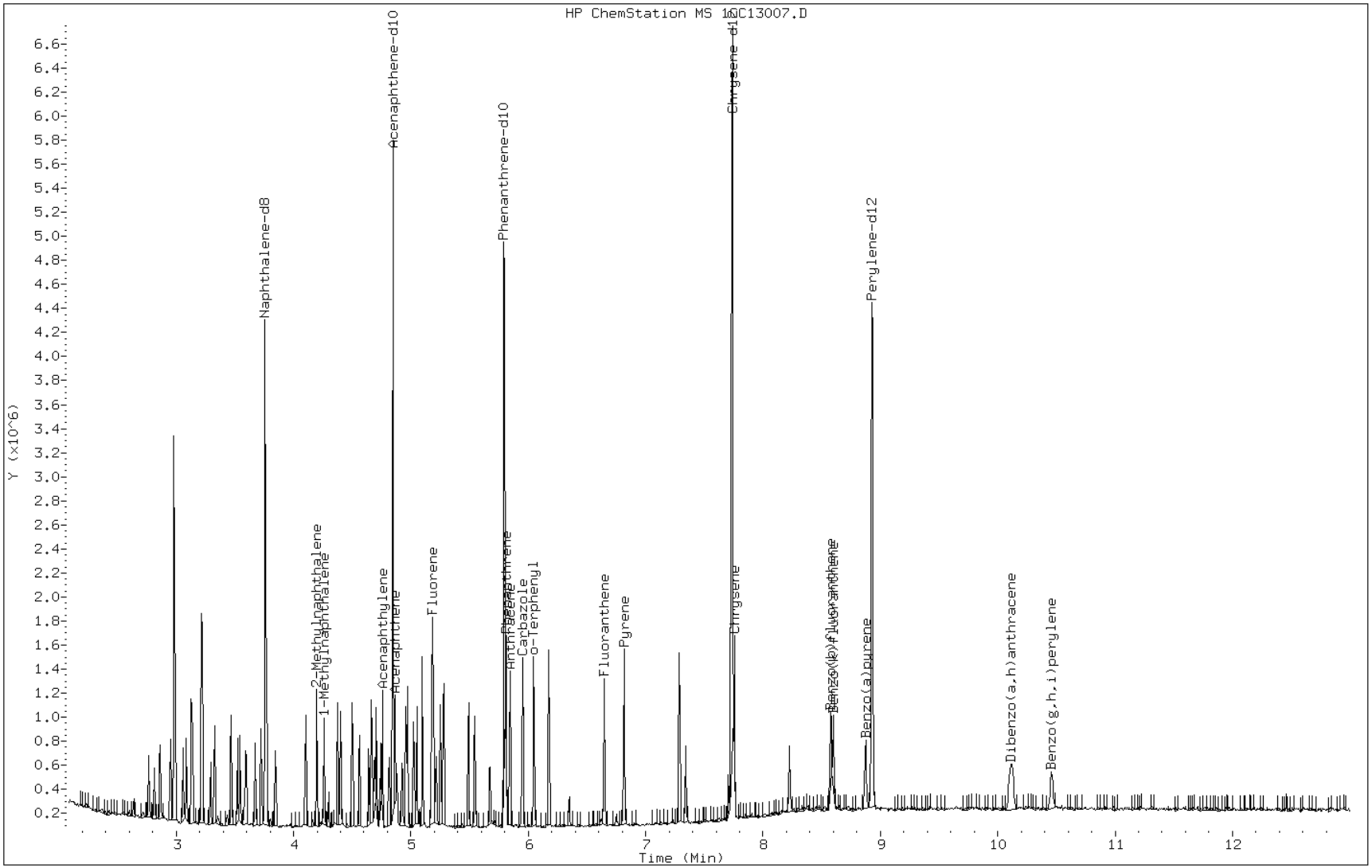
M - Compound response manually integrated.

Data File: 1CC13007.D

Date: 13-MAR-2013 13:12

Client ID: Instrument: BSMC5973.i

Sample Info: lcsd 660-135246/3-a Operator: SCC



Manual Integration Report

Data File: 1CC13007.D
Inj. Date and Time: 13-MAR-2013 13:12
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/14/2013

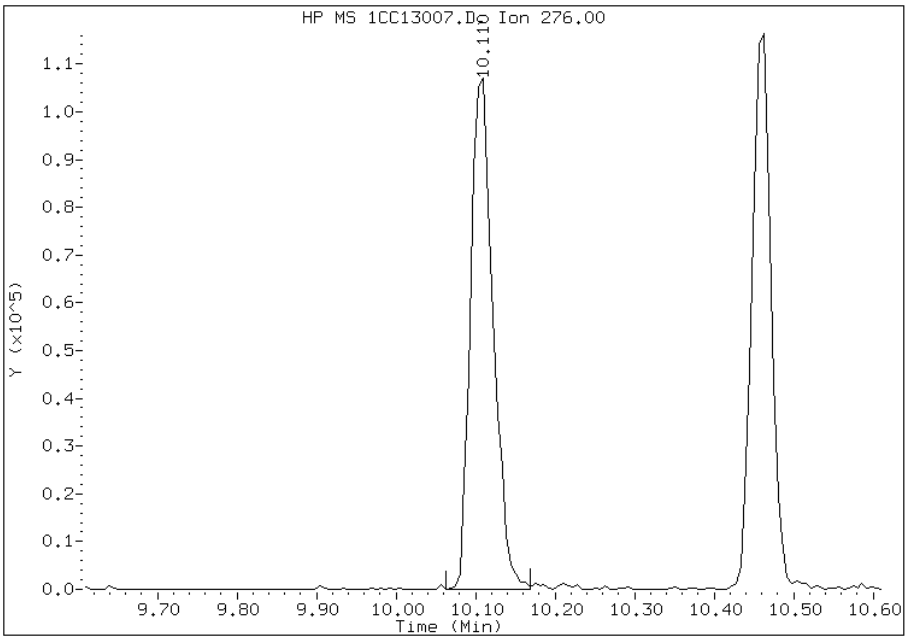
Processing Integration Results

RT: 10.11

Response: 210140

Amount: 5

Conc: 5



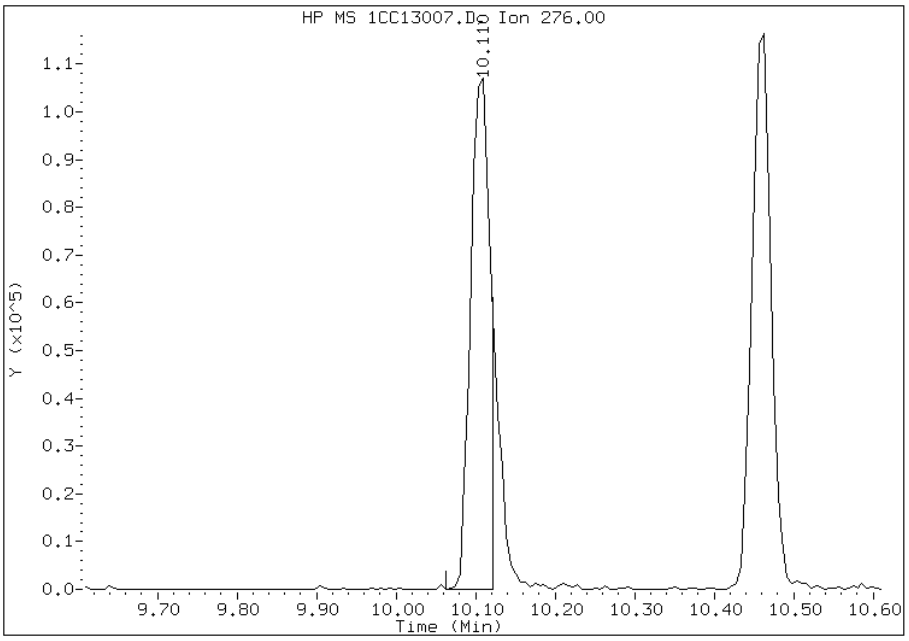
Manual Integration Results

RT: 10.11

Response: 179906

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 10:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: | Lab Sample ID: 680-87947-A-41-B MS

Matrix: Solid | Lab File ID: 1DC12008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/08/2013 10:18

Sample wt/vol: 15.03(g) | Date Analyzed: 03/12/2013 12:25

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

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

% Moisture: 28.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135345 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	573		140	28
208-96-8	Acenaphthylene	602		56	6.9
120-12-7	Anthracene	619		12	5.8
56-55-3	Benzo[a]anthracene	713		11	5.4
50-32-8	Benzo[a]pyrene	643		14	7.2
205-99-2	Benzo[b]fluoranthene	780		17	8.5
191-24-2	Benzo[g,h,i]perylene	463		28	6.1
207-08-9	Benzo[k]fluoranthene	690		11	5.0
218-01-9	Chrysene	702		13	6.3
53-70-3	Dibenz(a,h)anthracene	518		28	5.7
206-44-0	Fluoranthene	807		28	5.6
86-73-7	Fluorene	630		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	502		28	9.9
90-12-0	1-Methylnaphthalene	672		56	6.1
91-57-6	2-Methylnaphthalene	659		56	9.9
91-20-3	Naphthalene	617		56	6.1
85-01-8	Phenanthrene	703		11	5.4
129-00-0	Pyrene	702		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12008.D
Lab Smp Id: 680-87947-A-41-B MS
Inj Date : 12-MAR-2013 12:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87947-A-41-B MS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.149	6.149	(1.000)	2515956	40.0000	
* 6 Acenaphthene-d10	164	7.818	7.818	(1.000)	1620532	40.0000	
* 9 Phenanthrene-d10	188	9.081	9.075	(1.000)	2782671	40.0000	
$ 13 o-Terphenyl	230	9.386	9.386	(1.034)	266885	6.20212	410
* 17 Chrysene-d12	240	11.419	11.414	(1.000)	2940836	40.0000	
* 22 Perylene-d12	264	13.288	13.282	(1.000)	2713687	40.0000	
2 Naphthalene	128	6.173	6.173	(1.004)	448412	6.66253	440
3 2-Methylnaphthalene	142	6.866	6.872	(1.117)	305054	7.11530	470
4 1-Methylnaphthalene	142	6.960	6.960	(1.132)	291518	7.26116	480
5 Acenaphthylene	152	7.688	7.688	(0.983)	464197	6.49724	430
7 Acenaphthene	154	7.841	7.847	(1.003)	269352	6.18318	410
8 Fluorene	166	8.288	8.288	(1.060)	346243	6.80284	450
10 Phenanthrene	178	9.093	9.099	(1.001)	599356	7.58767	500
11 Anthracene	178	9.134	9.140	(1.006)	528030	6.68121	440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.275	9.275	(1.021)	472945	6.69408	440
14 Fluoranthene	202	10.080	10.080	(1.110)	718549	8.71678	580
15 Pyrene	202	10.268	10.268	(0.899)	691352	7.57878	500
16 Benzo(a)anthracene	228	11.402	11.396	(0.998)	620258	7.70377	510
18 Chrysene	228	11.437	11.443	(1.002)	629633	7.57482	500
19 Benzo(b)fluoranthene	252	12.724	12.730	(0.958)	588677	8.42776	560
20 Benzo(k)fluoranthene	252	12.759	12.765	(0.960)	545139	7.45387	500
21 Benzo(a)pyrene	252	13.182	13.188	(0.992)	479557	6.93783	460
23 Indeno(1,2,3-cd)pyrene	276	14.886	14.898	(1.120)	400203	5.42531	360(M)
24 Dibenzo(a,h)anthracene	278	14.921	14.927	(1.123)	381308	5.59722	370
25 Benzo(g,h,i)perylene	276	15.338	15.356	(1.154)	351437	4.99687	330

QC Flag Legend

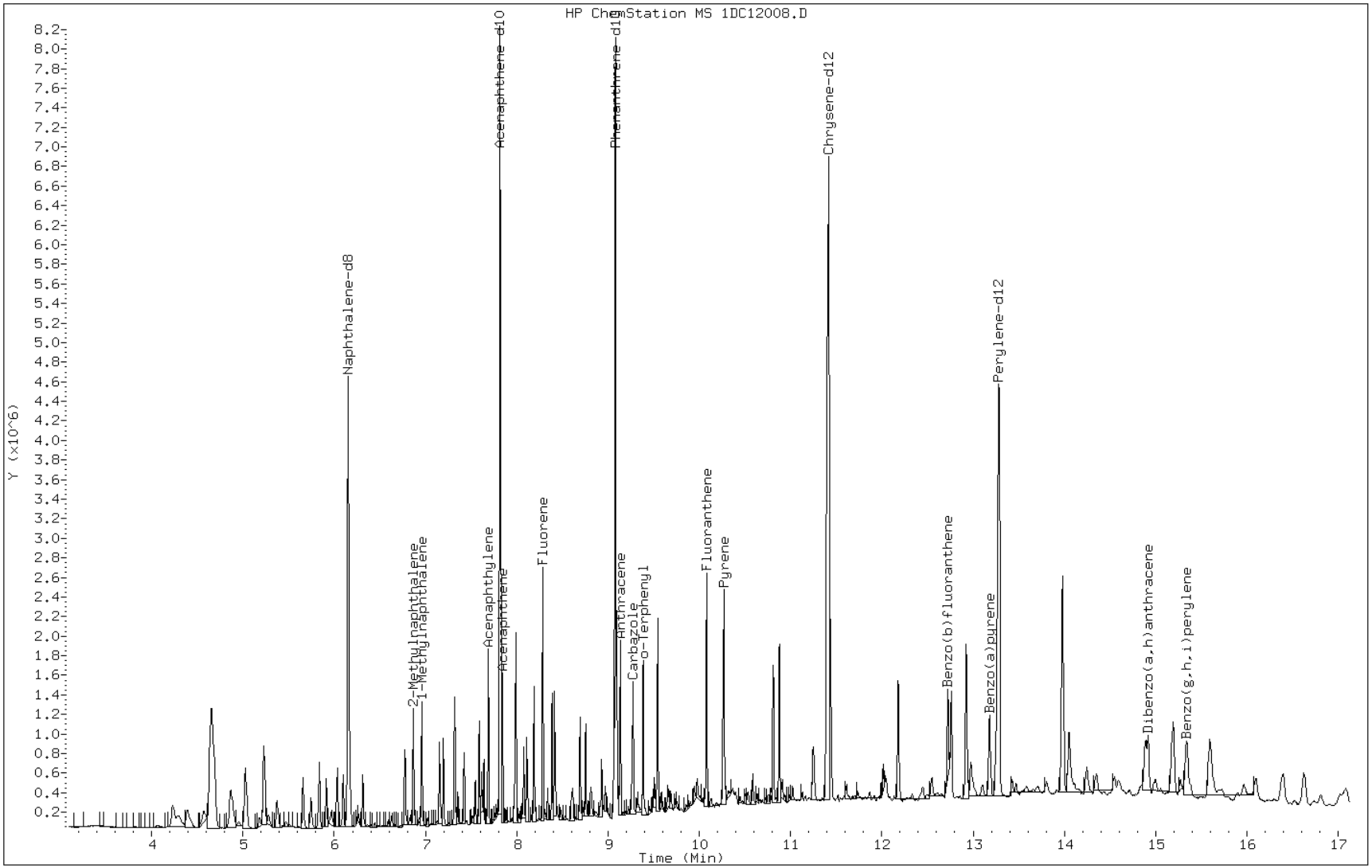
M - Compound response manually integrated.

Data File: 1DC12008.D

Date: 12-MAR-2013 12:25

Client ID: Instrument: BSMSD.i

Sample Info: 680-87947-A-41-B MS Operator: SCC



Manual Integration Report

Data File: 1DC12008.D
Inj. Date and Time: 12-MAR-2013 12:25
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

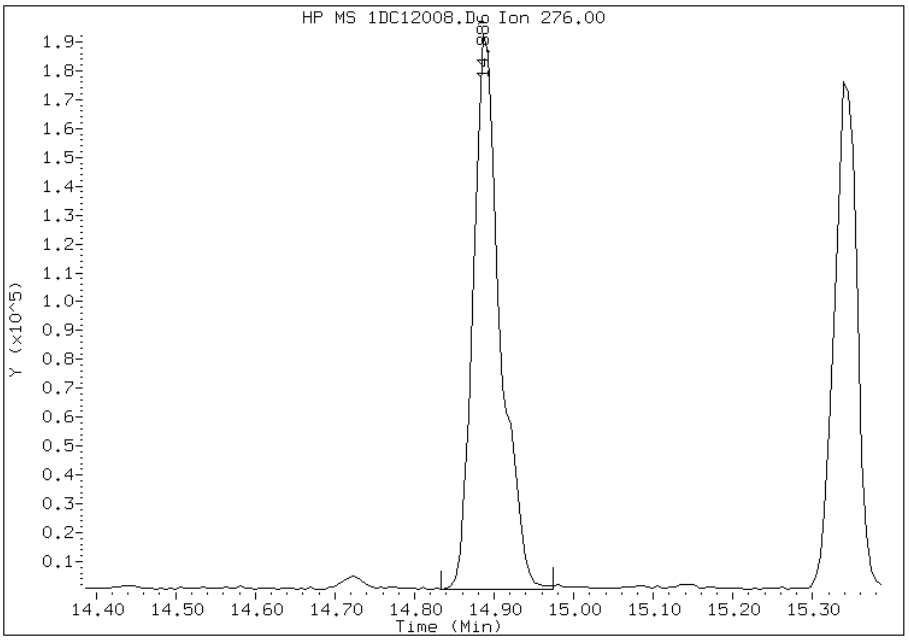
Processing Integration Results

RT: 14.89

Response: 451088

Amount: 6

Conc: 407



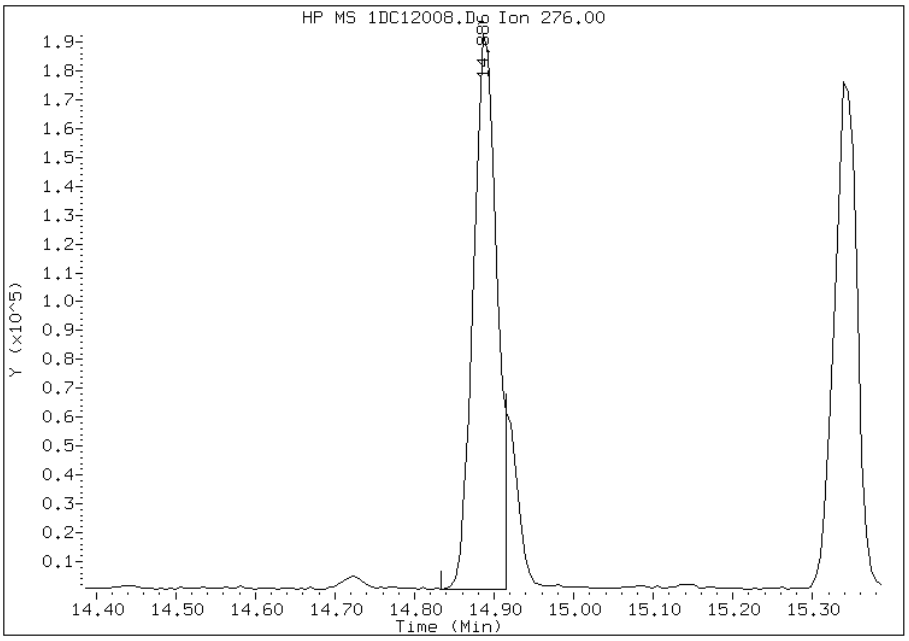
Manual Integration Results

RT: 14.89

Response: 400203

Amount: 5

Conc: 361



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 11:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0333A-CS-SP MS | Lab Sample ID: 680-88065-5 MS

Matrix: Solid | Lab File ID: 1CC12008.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 11:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 12:51

Sample wt/vol: 15.28(g) | Date Analyzed: 03/12/2013 14:21

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

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

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	748		530	110
208-96-8	Acenaphthylene	864		210	26
120-12-7	Anthracene	836		44	22
56-55-3	Benzo[a]anthracene	1090		42	21
50-32-8	Benzo[a]pyrene	947		55	27
205-99-2	Benzo[b]fluoranthene	1070		64	32
191-24-2	Benzo[g,h,i]perylene	851		110	23
207-08-9	Benzo[k]fluoranthene	1030		42	19
218-01-9	Chrysene	1070		47	24
53-70-3	Dibenz(a,h)anthracene	755		110	22
206-44-0	Fluoranthene	1250		110	21
86-73-7	Fluorene	781		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	855		110	37
90-12-0	1-Methylnaphthalene	989		210	23
91-57-6	2-Methylnaphthalene	1130		210	37
91-20-3	Naphthalene	857		210	23
85-01-8	Phenanthrene	1090		42	21
129-00-0	Pyrene	1230		110	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12008.D
Lab Smp Id: 680-88065-a-5-b ms
Inj Date : 12-MAR-2013 14:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-a-5-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 8 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	15.280	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	3.763	3.763	(1.000)	1323773	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1055864	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1920645	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	59234	2.04266	534.7276
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2185713	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	2147337	40.0000	
2 Naphthalene	128	3.775	3.774	(1.003)	84186	2.44281	639.4782
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	74321	3.23301	846.3365
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	59019	2.81892	737.9366
5 Acenaphthylene	152	4.763	4.763	(0.982)	104898	2.46418	645.0734
7 Acenaphthene	154	4.869	4.868	(1.004)	56464	2.13401	558.6416
9 Fluorene	166	5.192	5.192	(1.070)	74483	2.22588	582.6900
11 Phenanthrene	178	5.816	5.815	(1.002)	172565	3.10723	813.4115
12 Anthracene	178	5.851	5.851	(1.008)	129503	2.38432	624.1677

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.957	5.957	(1.026)	111552	2.31044	604.8270
15 Fluoranthene	202	6.657	6.657	(1.147)	216898	3.56627	933.5790(R)
16 Pyrene	202	6.821	6.827	(0.881)	205219	3.49381	914.6097(R)
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	195478	3.09870	811.1776
19 Chrysene	228	7.762	7.768	(1.002)	193001	3.05714	800.2976
20 Benzo(b)fluoranthene	252	8.586	8.592	(0.960)	170606	3.04014	795.8469
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	169808	2.94968	772.1678
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	147210	2.70066	706.9795
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	125062	2.43893	638.4633(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	107969	2.15264	563.5187(M)
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	130154	2.42641	635.1869

QC Flag Legend

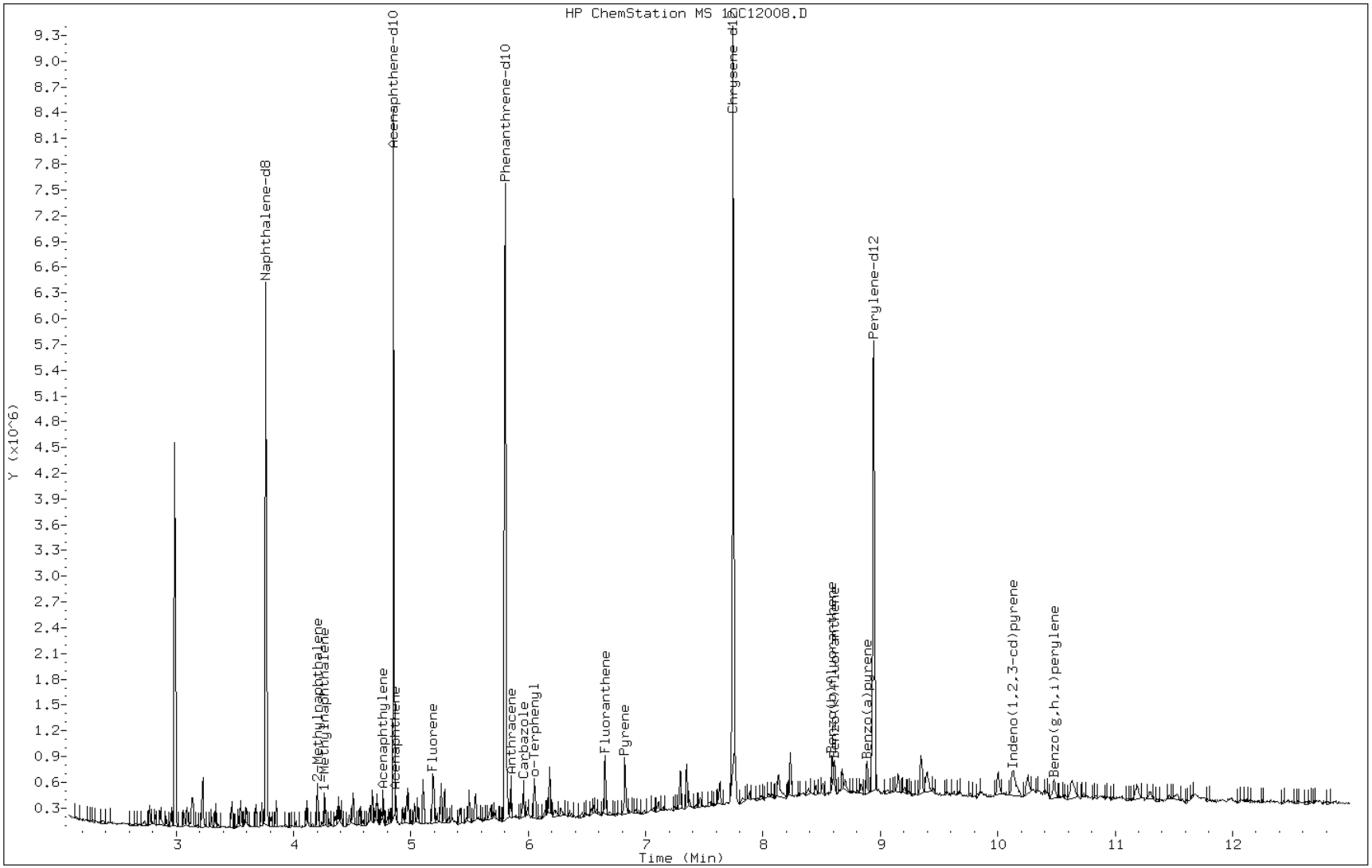
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC12008.D

Date: 12-MAR-2013 14:21

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-b ms Operator: SCC



Manual Integration Report

Data File: 1CC12008.D
Inj. Date and Time: 12-MAR-2013 14:21
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/13/2013

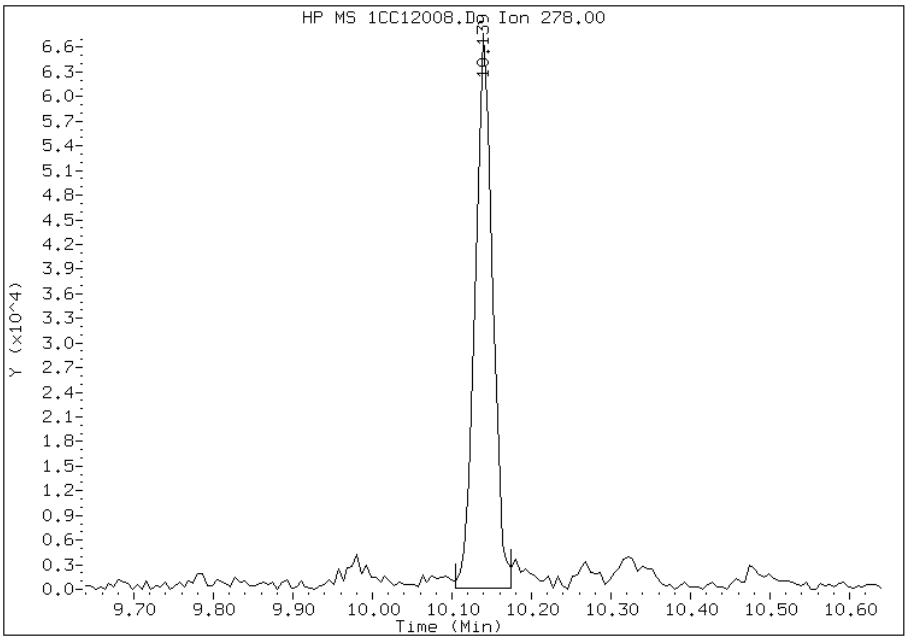
Processing Integration Results

RT: 10.14

Response: 102859

Amount: 2

Conc: 537



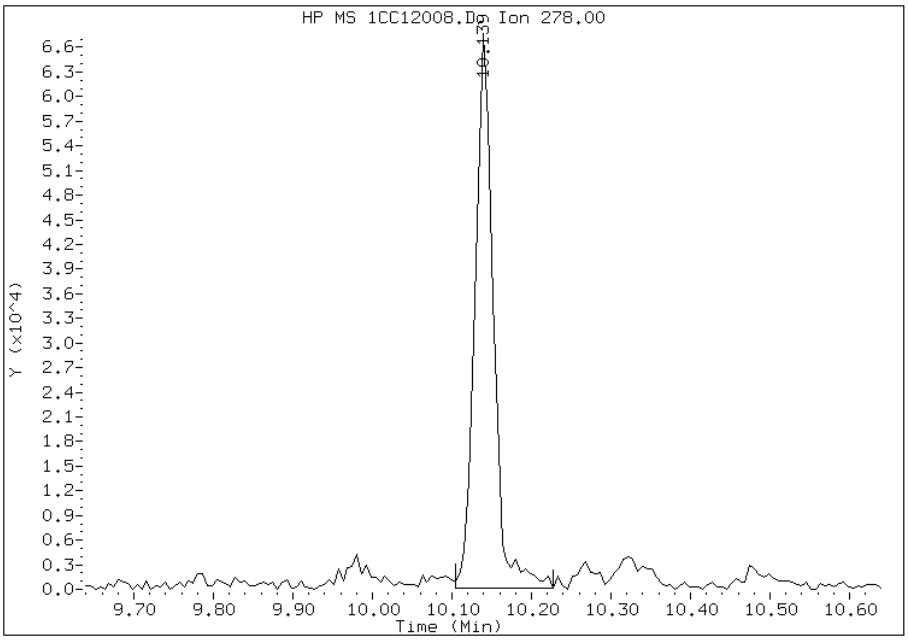
Manual Integration Results

RT: 10.14

Response: 107969

Amount: 2

Conc: 564



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12008.D
Inj. Date and Time: 12-MAR-2013 14:21
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

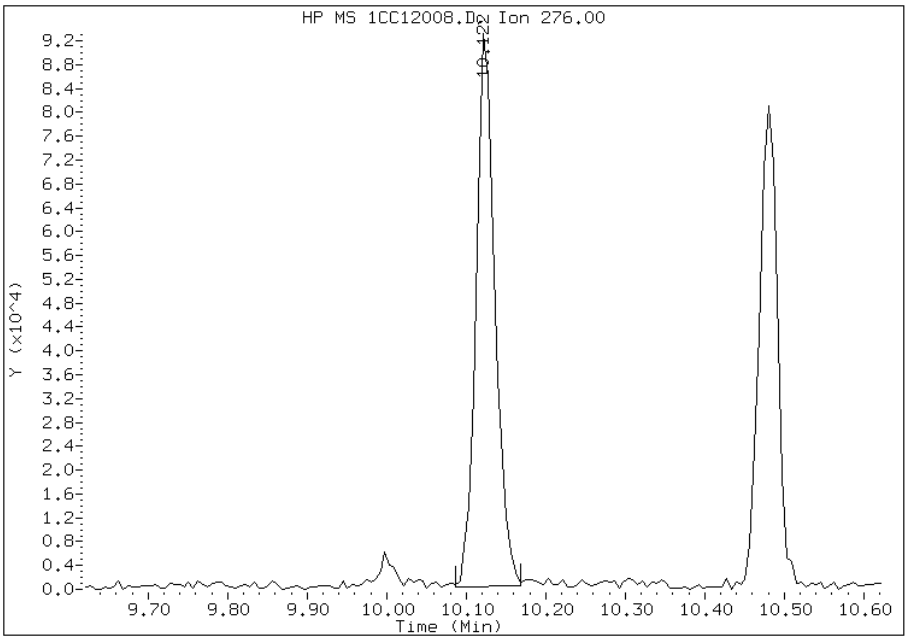
Processing Integration Results

RT: 10.12

Response: 151994

Amount: 3

Conc: 776



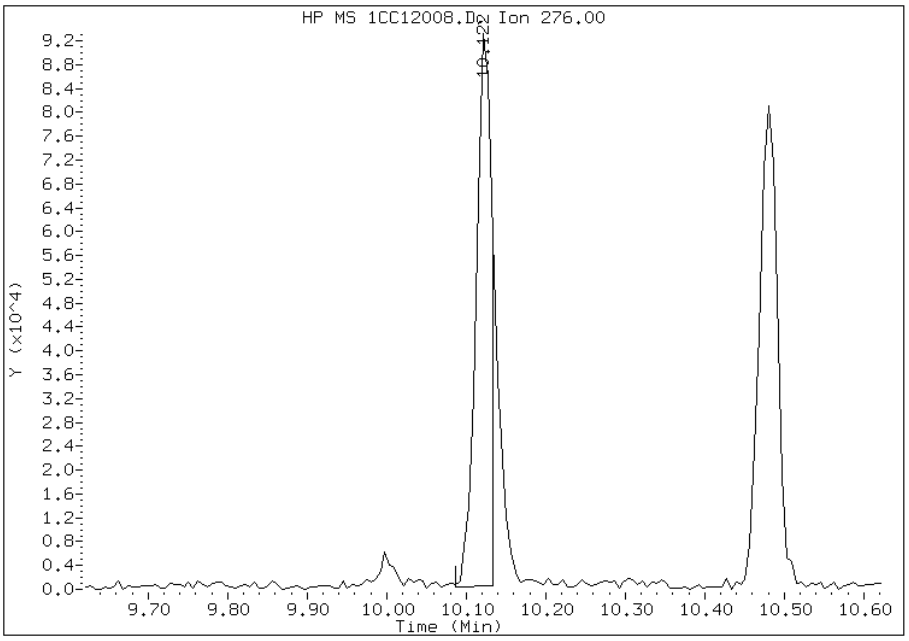
Manual Integration Results

RT: 10.12

Response: 125062

Amount: 2

Conc: 638



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88065-1
SDG No.: 68088065-1
Client Sample ID:
Lab Sample ID: 680-87947-A-41-C MSD
Matrix: Solid
Lab File ID: 1DC12009.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/08/2013 10:18
Sample wt/vol: 15.03(g)
Date Analyzed: 03/12/2013 12:48
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 28.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135345
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	645		140	28
208-96-8	Acenaphthylene	675		56	6.9
120-12-7	Anthracene	685		12	5.8
56-55-3	Benzo[a]anthracene	799		11	5.4
50-32-8	Benzo[a]pyrene	712		14	7.2
205-99-2	Benzo[b]fluoranthene	934		17	8.5
191-24-2	Benzo[g,h,i]perylene	470		28	6.1
207-08-9	Benzo[k]fluoranthene	777		11	5.0
218-01-9	Chrysene	768		13	6.3
53-70-3	Dibenz(a,h)anthracene	527		28	5.7
206-44-0	Fluoranthene	927		28	5.6
86-73-7	Fluorene	707		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	490		28	9.9
90-12-0	1-Methylnaphthalene	744		56	6.1
91-57-6	2-Methylnaphthalene	728		56	9.9
91-20-3	Naphthalene	679		56	6.1
85-01-8	Phenanthrene	841		11	5.4
129-00-0	Pyrene	825		28	5.1

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\1DC12009.D
Lab Smp Id: 680-87947-A-41-C MS
Inj Date : 12-MAR-2013 12:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87947-A-41-C MSD
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031213.b\dFASTPAHi.m
Meth Date : 12-Mar-2013 10:52 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.154	6.149	(1.000)	2449419	40.0000	
* 6 Acenaphthene-d10	164	7.822	7.818	(1.000)	1556660	40.0000	
* 9 Phenanthrene-d10	188	9.080	9.075	(1.000)	2686202	40.0000	
$ 13 o-Terphenyl	230	9.385	9.386	(1.034)	287156	6.91285	460
* 17 Chrysene-d12	240	11.418	11.414	(1.000)	2788699	40.0000	
* 22 Perylene-d12	264	13.287	13.282	(1.000)	2363343	40.0000	
2 Naphthalene	128	6.171	6.173	(1.003)	480127	7.32754	490
3 2-Methylnaphthalene	142	6.871	6.872	(1.116)	328232	7.86389	520
4 1-Methylnaphthalene	142	6.959	6.960	(1.131)	314026	8.03426	530
5 Acenaphthylene	152	7.687	7.688	(0.983)	500003	7.28556	480
7 Acenaphthene	154	7.846	7.847	(1.003)	291348	6.96254	460
8 Fluorene	166	8.287	8.288	(1.059)	373179	7.63291	510
10 Phenanthrene	178	9.097	9.099	(1.002)	692562	9.08250	600
11 Anthracene	178	9.139	9.140	(1.006)	564209	7.39537	490

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.274	9.275	(1.021)	501081	7.34703	490
14 Fluoranthene	202	10.079	10.080	(1.110)	796388	10.0080	660
15 Pyrene	202	10.267	10.268	(0.899)	770996	8.91295	590
16 Benzo(a)anthracene	228	11.401	11.396	(0.998)	658778	8.62857	570
18 Chrysene	228	11.442	11.443	(1.002)	653585	8.29194	550
19 Benzo(b)fluoranthene	252	12.728	12.730	(0.958)	613441	10.0842	670
20 Benzo(k)fluoranthene	252	12.764	12.765	(0.961)	534620	8.39368	560
21 Benzo(a)pyrene	252	13.187	13.188	(0.992)	462956	7.69053	510
23 Indeno(1,2,3-cd)pyrene	276	14.891	14.898	(1.121)	339736	5.28833	350(M)
24 Dibenzo(a,h)anthracene	278	14.926	14.927	(1.123)	337360	5.68621	380
25 Benzo(g,h,i)perylene	276	15.349	15.356	(1.155)	310590	5.07074	340

QC Flag Legend

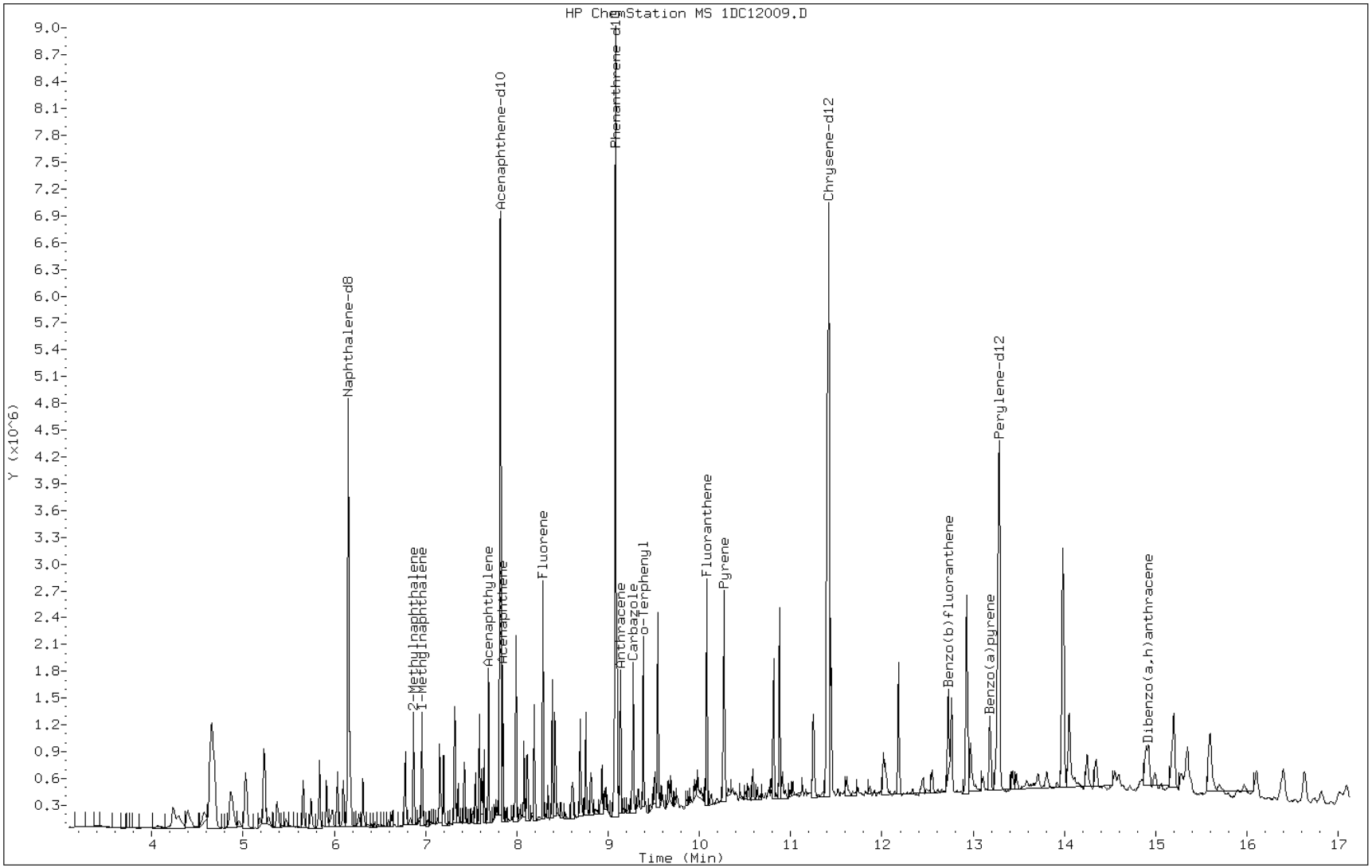
M - Compound response manually integrated.

Data File: 1DC12009.D

Date: 12-MAR-2013 12:48

Client ID: Instrument: BSMSD.i

Sample Info: 680-87947-A-41-C MSD Operator: SCC



Manual Integration Report

Data File: 1DC12009.D
Inj. Date and Time: 12-MAR-2013 12:48
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

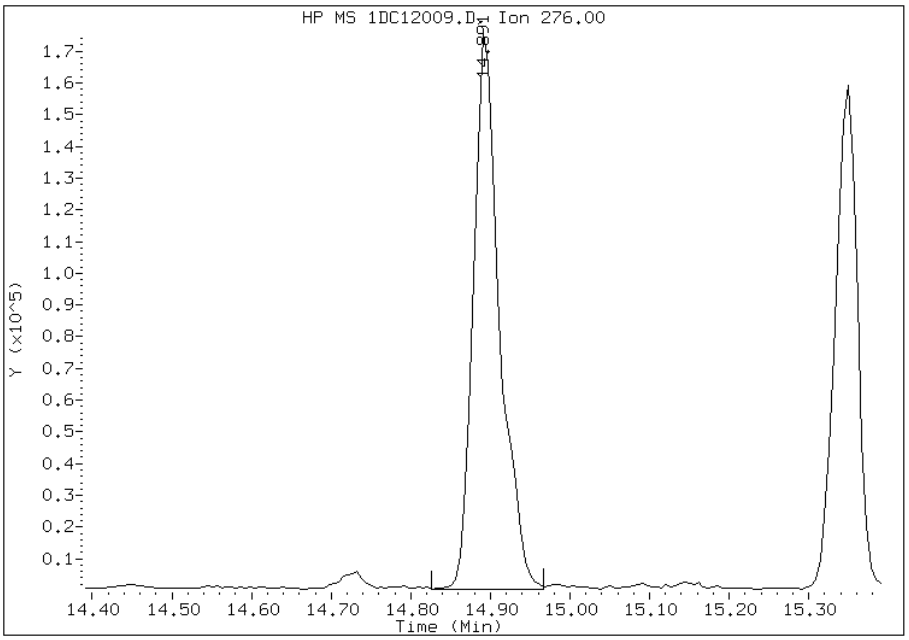
Processing Integration Results

RT: 14.89

Response: 398994

Amount: 6

Conc: 413



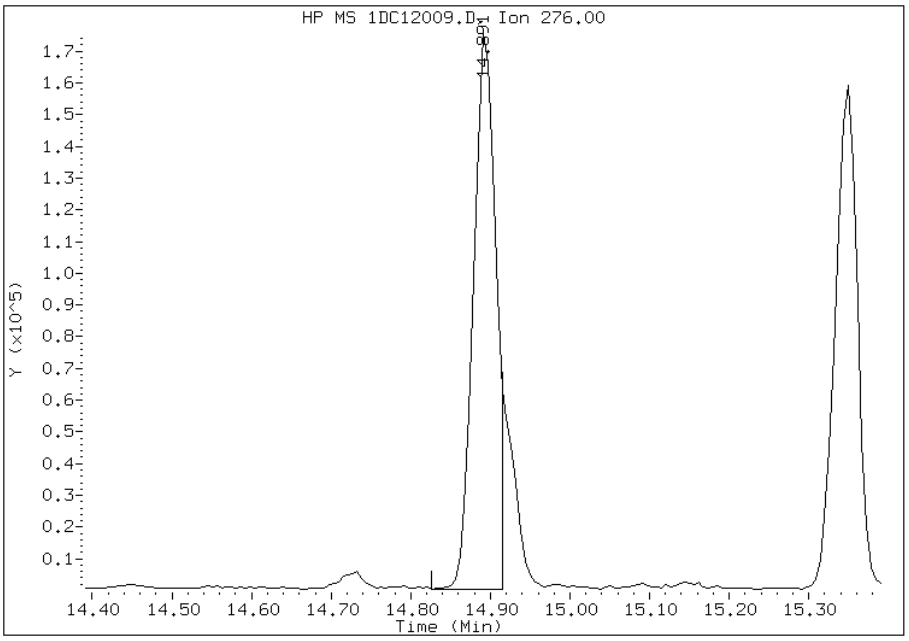
Manual Integration Results

RT: 14.89

Response: 339736

Amount: 5

Conc: 352



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 11:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88065-1

SDG No.: 68088065-1

Client Sample ID: CV0333A-CS-SP MSD | Lab Sample ID: 680-88065-5 MSD

Matrix: Solid | Lab File ID: 1CC12009.D

Analysis Method: 8270C LL | Date Collected: 03/04/2013 11:30

Extract. Method: 3546 | Date Extracted: 03/08/2013 12:51

Sample wt/vol: 15.28(g) | Date Analyzed: 03/12/2013 14:40

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

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

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	830		530	110
208-96-8	Acenaphthylene	763		210	26
120-12-7	Anthracene	796		44	22
56-55-3	Benzo[a]anthracene	1050		42	21
50-32-8	Benzo[a]pyrene	959		55	27
205-99-2	Benzo[b]fluoranthene	1110		64	32
191-24-2	Benzo[g,h,i]perylene	848		110	23
207-08-9	Benzo[k]fluoranthene	1030		42	19
218-01-9	Chrysene	1080		47	24
53-70-3	Dibenz(a,h)anthracene	729		110	22
206-44-0	Fluoranthene	1240		110	21
86-73-7	Fluorene	771		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	822		110	37
90-12-0	1-Methylnaphthalene	941		210	23
91-57-6	2-Methylnaphthalene	986		210	37
91-20-3	Naphthalene	854		210	23
85-01-8	Phenanthrene	1070		42	21
129-00-0	Pyrene	1240		110	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12009.D
Lab Smp Id: 680-88065-a-5-c msd
Inj Date : 12-MAR-2013 14:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88065-a-5-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\a-bFASTPAHi-m.m
Meth Date : 12-Mar-2013 13:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 9 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	3.763	3.763	(1.000)	1303928	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1030865	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1926894	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	57135	1.96389	514.1065
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2200494	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	2117979	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	82608	2.43350	637.0417
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	63686	2.81254	736.2671
4 1-Methylnaphthalene	142	4.262	4.263	(1.133)	55320	2.68246	702.2137
5 Acenaphthylene	152	4.762	4.763	(0.982)	90424	2.17568	569.5500
7 Acenaphthene	154	4.868	4.868	(1.004)	61158	2.36747	619.7566
9 Fluorene	166	5.192	5.192	(1.070)	71776	2.19700	575.1297
11 Phenanthrene	178	5.815	5.815	(1.002)	170106	3.05302	799.2202
12 Anthracene	178	5.851	5.851	(1.008)	123595	2.26817	593.7610

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.956	5.957	(1.026)	113698	2.34725	614.4633
15 Fluoranthene	202	6.656	6.657	(1.147)	215754	3.53596	925.6433(R)
16 Pyrene	202	6.821	6.827	(0.881)	209115	3.53622	925.7130(R)
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	189894	2.98996	782.7125
19 Chrysene	228	7.762	7.768	(1.002)	195589	3.07732	805.5812
20 Benzo(b)fluoranthene	252	8.586	8.592	(0.960)	175506	3.17080	830.0528
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	166740	2.93654	768.7266
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	146993	2.73406	715.7225
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	118512	2.34323	613.4109(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	102812	2.07824	544.0410
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	127941	2.41822	633.0416

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC12009.D

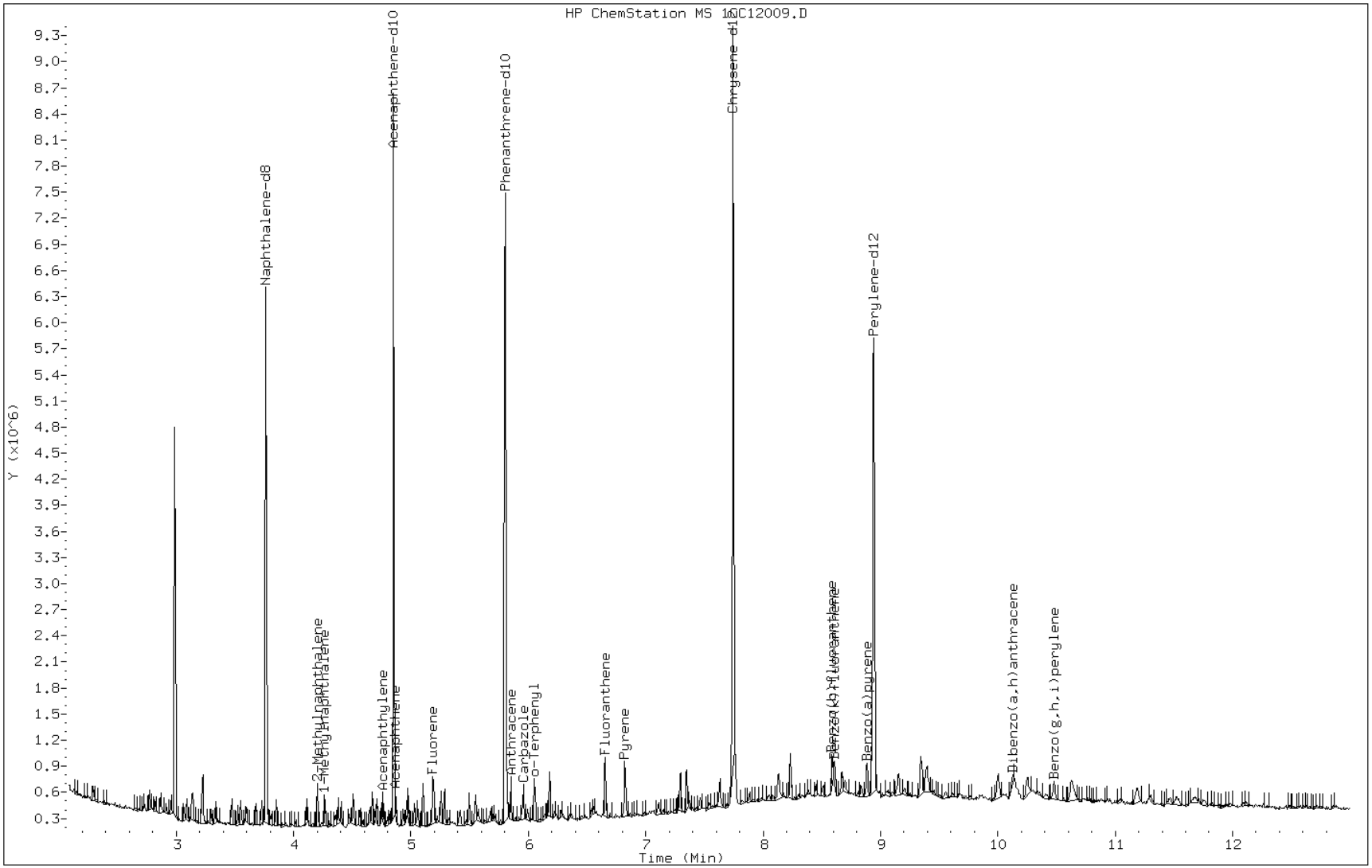
Date: 12-MAR-2013 14:40

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88065-a-5-c msd

Operator: SCC



Manual Integration Report

Data File: 1CC12009.D
Inj. Date and Time: 12-MAR-2013 14:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

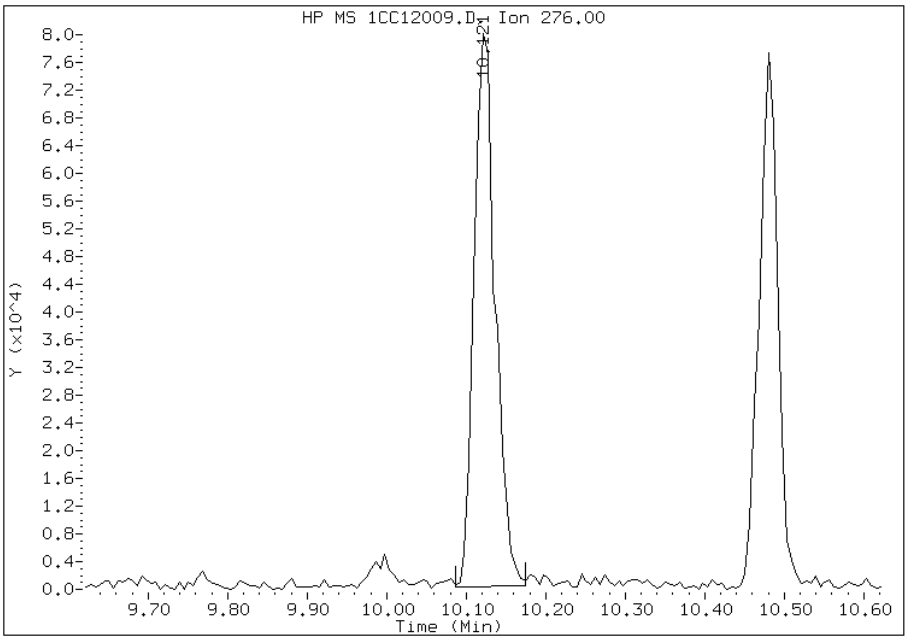
Processing Integration Results

RT: 10.12

Response: 146734

Amount: 3

Conc: 759



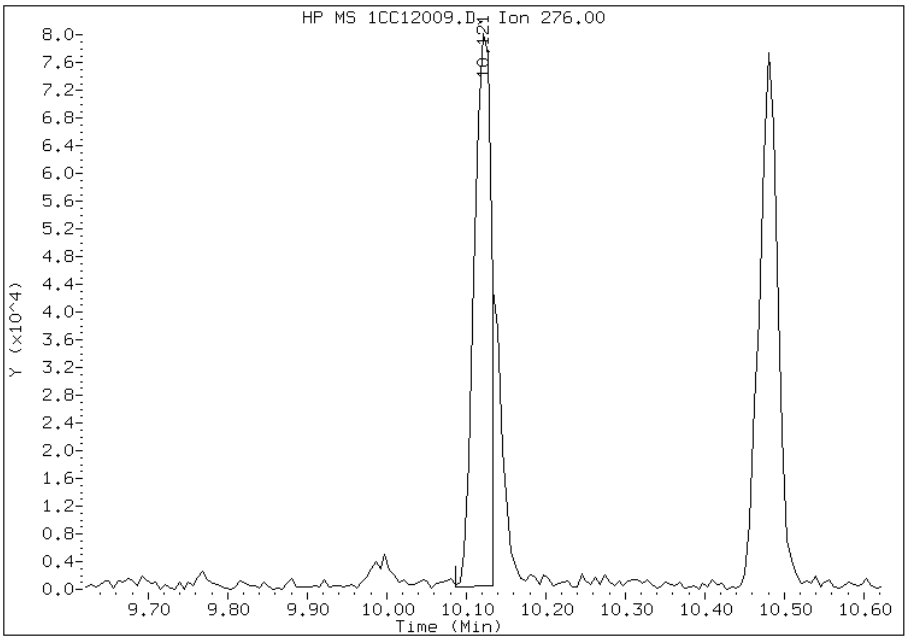
Manual Integration Results

RT: 10.12

Response: 118512

Amount: 2

Conc: 613



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 15:43
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250(um)
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.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMC5973 Start Date: 03/12/2013 11:25

Analysis Batch Number: 135316 End Date: 03/12/2013 21:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/12/2013 11:25	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 11:43	1		DB-5MS 250(um)
DFTPP 660-135316/2		03/12/2013 12:01	1	1CC12002.D	DB-5MS 250(um)
CCVIS 660-135316/3		03/12/2013 12:18	1	1CC12003.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 13:08	1		DB-5MS 250(um)
MB 660-135207/1-A		03/12/2013 13:27	1	1CC12005.D	DB-5MS 250(um)
LCS 660-135207/2-A		03/12/2013 13:45	1	1CC12006.D	DB-5MS 250(um)
680-88065-5	CV0333A-CS-SP	03/12/2013 14:03	4	1CC12007.D	DB-5MS 250(um)
680-88065-5 MS	CV0333A-CS-SP MS	03/12/2013 14:21	4	1CC12008.D	DB-5MS 250(um)
680-88065-5 MSD	CV0333A-CS-SP MSD	03/12/2013 14:40	4	1CC12009.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 14:58	4		DB-5MS 250(um)
680-88065-19	HP0138A-CS-SP	03/12/2013 15:16	1	1CC12011.D	DB-5MS 250(um)
680-88065-20	HP0138B-CS-SP	03/12/2013 15:35	1	1CC12012.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 15:53	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 16:11	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 16:30	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 16:48	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 17:07	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 17:25	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 17:43	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 18:01	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 18:20	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 18:38	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 18:56	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 19:15	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 19:33	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 19:51	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 20:10	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 20:28	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 20:46	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 21:05	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMC5973 Start Date: 03/13/2013 10:56

Analysis Batch Number: 135360 End Date: 03/13/2013 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/13/2013 10:56	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 11:15	1		DB-5MS 250(um)
DFTPP 660-135360/2		03/13/2013 11:33	1	1CC13002.D	DB-5MS 250(um)
CCVIS 660-135360/3		03/13/2013 11:52	1	1CC13003.D	DB-5MS 250(um)
ZZZZZ		03/13/2013 12:17	1		DB-5MS 250(um)
MB 660-135246/1-A		03/13/2013 12:35	1	1CC13005.D	DB-5MS 250(um)
LCS 660-135246/2-A		03/13/2013 12:54	1	1CC13006.D	DB-5MS 250(um)
LCSD 660-135246/3-A		03/13/2013 13:12	1	1CC13007.D	DB-5MS 250(um)
680-88065-26	030513-RB-Shovel	03/13/2013 13:30	1	1CC13008.D	DB-5MS 250(um)
680-88065-15	CV0236A-CS	03/13/2013 13:49	1	1CC13009.D	DB-5MS 250(um)
680-88065-16	CV0236B-CS	03/13/2013 14:07	4	1CC13010.D	DB-5MS 250(um)
680-88065-17	HP0313A-CS-SP	03/13/2013 14:25	4	1CC13011.D	DB-5MS 250(um)
680-88065-18	HP0313B-CS-SP	03/13/2013 14:44	1	1CC13012.D	DB-5MS 250(um)
ZZZZZ		03/13/2013 15:02	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:20	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:57	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:15	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:52	1		DB-5MS 250(um)
680-88065-4 DL	CV0793B-CS-SP DL	03/13/2013 17:11	4	1CC13020.D	DB-5MS 250(um)
ZZZZZ		03/13/2013 17:29	20		DB-5MS 250(um)
ZZZZZ		03/13/2013 17:47	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 18:06	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 18:24	4		DB-5MS 250(um)
ZZZZZ		03/13/2013 18:43	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

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.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: BSMD5973 Start Date: 03/12/2013 09:13

Analysis Batch Number: 135345 End Date: 03/12/2013 19:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/12/2013 09:13	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 09:50	1		DB-5MS 250(um)
DFTPP 660-135345/2		03/12/2013 10:14	1	1DC12002.D	DB-5MS 250(um)
CCVIS 660-135345/3		03/12/2013 10:31	1	1DC12003.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 10:55	1		DB-5MS 250(um)
MB 660-135195/1-A		03/12/2013 11:18	1	1DC12005.D	DB-5MS 250(um)
LCS 660-135195/2-A		03/12/2013 11:40	1	1DC12006.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 12:03	1		DB-5MS 250(um)
680-87947-A-41-B MS		03/12/2013 12:25	1	1DC12008.D	DB-5MS 250(um)
680-87947-A-41-C MSD		03/12/2013 12:48	1	1DC12009.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 13:11	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 13:33	1		DB-5MS 250(um)
680-88065-1	CV0079A-CS-SP	03/12/2013 13:56	4	1DC12012.D	DB-5MS 250(um)
680-88065-2	CV0079B-CS-SP	03/12/2013 14:18	4	1DC12013.D	DB-5MS 250(um)
680-88065-3	CV0793A-CS-SP	03/12/2013 14:41	4	1DC12014.D	DB-5MS 250(um)
680-88065-4	CV0793B-CS-SP	03/12/2013 15:04	1	1DC12015.D	DB-5MS 250(um)
680-88065-6	CV0333B-CS-SP	03/12/2013 15:26	1	1DC12016.D	DB-5MS 250(um)
680-88065-7	FM0144A-CS	03/12/2013 15:49	4	1DC12017.D	DB-5MS 250(um)
680-88065-8	FM0134A-CS	03/12/2013 16:12	1	1DC12018.D	DB-5MS 250(um)
680-88065-9	FM0134A-CSD	03/12/2013 16:34	1	1DC12019.D	DB-5MS 250(um)
680-88065-10	FM0134B-CS	03/12/2013 16:57	1	1DC12020.D	DB-5MS 250(um)
680-88065-11	FM0134C-CS	03/12/2013 17:20	1	1DC12021.D	DB-5MS 250(um)
680-88065-12	CV0278A-CS	03/12/2013 17:42	1	1DC12022.D	DB-5MS 250(um)
680-88065-13	CV0278A-CSD	03/12/2013 18:05	1	1DC12023.D	DB-5MS 250(um)
680-88065-14	CV0278B-CS	03/12/2013 18:27	1	1DC12024.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 18:50	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 19:12	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 19:35	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 19:58	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135195 Batch Start Date: 03/08/13 10:18 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/08/13 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00177		
MB 660-135195/1		3546, 8270C LL		15.32 g	1 mL		1 mL		
LCS 660-135195/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL		
680-87947-A-41 MS		3546, 8270C LL	T	15.03 g	1 mL	1 mL	1 mL		
680-87947-A-41 MSD		3546, 8270C LL	T	15.03 g	1 mL	1 mL	1 mL		
680-88065-A-1	CV0079A-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88065-A-2	CV0079B-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-88065-A-3	CV0793A-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88065-A-4	CV0793B-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88065-A-6	CV0333B-CS-SP	3546, 8270C LL	T	15.43 g	1 mL		1 mL		
680-88065-A-7	FM0144A-CS	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-88065-A-8	FM0134A-CS	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-88065-A-9	FM0134A-CSD	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-88065-A-10	FM0134B-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-88065-A-11	FM0134C-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88065-A-12	CV0278A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88065-A-13	CV0278A-CSD	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88065-A-14	CV0278B-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88065-A-15	CV0236A-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88065-A-16	CV0236B-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88065-A-17	HP0313A-CS-SP	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-88065-A-18	HP0313B-CS-SP	3546, 8270C LL	T	14.96 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.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135195 Batch Start Date: 03/08/13 10:18 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/08/13 16:00

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
Sulfuric Acid Lot Number	/A
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	EX-DCM/ACETON 37
Microwave Start Time	12:00 3/8/13
Microwave Stop Time	12:35 3/8/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND_12
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
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.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135207 Batch Start Date: 03/08/13 12:51 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/08/13 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00177		
MB 660-135207/1		3546, 8270C LL		15.04 g	1 mL		1 mL		
LCS 660-135207/2		3546, 8270C LL		14.92 g	1 mL	1 mL	1 mL		
680-88065-A-5	CV0333A-CS-SP	3546, 8270C LL	T	15.28 g	1 mL		1 mL		
680-88065-A-5 MS	CV0333A-CS-SP	3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-88065-A-5 MSD	CV0333A-CS-SP	3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-88065-A-19	HP0138A-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88065-A-20	HP0138B-CS-SP	3546, 8270C LL	T	15.01 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.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135207 Batch Start Date: 03/08/13 12:51 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/08/13 16:50

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 #	EX-DCM/ACETON_38/39
Microwave Start Time	14:25 3/8/13
Microwave Stop Time	15:00 3/8/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND_12
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	SELF
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.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135246 Batch Start Date: 03/11/13 10:17 Batch Analyst: Cerome, Saurel

Batch Method: 3520C Batch End Date: 03/13/13 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00019	EXLLSURINT 00177
MB 660-135246/1		3520C, 8270C LL		1000 mL	1 mL	8	<2		1 mL
LCS 660-135246/2		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
LCSD 660-135246/3		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
680-88065-A-26	030513-RB-Shovel	3520C, 8270C LL	T	1065 mL	1 mL	8	<2		1 mL

Batch Notes	
Acid used for pH adjustment	10H2S04
Acid used for pH adjust Lot #	EX-10H2S04_06
Batch Comment	NONE
Concentration End Time	10:20 3/13/13
Concentration Start Time	8:50 3/13/13
Person's name who did the concentration	SAUREL
Time the first extraction ended 24hr	16:25 3/11/13
Time the first extraction started 24 hr	12:25 3/11/13
pH Paper Lot Number	HC256691
Prep Solvent Lot #	EX-MC CYCL 54
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	SAUREL
Person's name who witnessed reagent drop	SELF
Sufficient volume for MS/MSD?	NO
Water Bath ID	TURBOVAP2 #3
Water Bath Temperature	40 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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88065-1

SDG No.: 68088065-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0079A-CS-SP	680-88065-1
CV0079B-CS-SP	680-88065-2
CV0793A-CS-SP	680-88065-3
CV0793B-CS-SP	680-88065-4
CV0333A-CS-SP	680-88065-5
CV0333B-CS-SP	680-88065-6
FM0144A-CS	680-88065-7
FM0134A-CS	680-88065-8
FM0134A-CSD	680-88065-9
FM0134B-CS	680-88065-10
FM0134C-CS	680-88065-11
CV0278A-CS	680-88065-12
CV0278A-CSD	680-88065-13
CV0278B-CS	680-88065-14
CV0236A-CS	680-88065-15
CV0236B-CS	680-88065-16
HP0313A-CS-SP	680-88065-17
HP0313B-CS-SP	680-88065-18
HP0138A-CS-SP	680-88065-19
HP0138B-CS-SP	680-88065-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88065-1

SDG Number: 68088065-1

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88065-1

SDG Number: 68088065-1

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88065-1

SDG Number: 68088065-1

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: 680-88065-1

SDG Number: 68088065-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: Moisture Method: Moisture

Start Date: 03/11/2013 06:39 End Date: 03/11/2013 11:50

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-135255/22	1	T	06:39	X																			
LCS 660-135255/1	1	T	06:41	X																			
ZZZZZZ			07:29																				
ZZZZZZ			07:41																				
ZZZZZZ			07:55																				
ZZZZZZ			07:57																				
680-88065-19	1	T	08:34	X																			
680-88065-20	1	T	08:42	X																			
ZZZZZZ			09:21																				
ZZZZZZ			09:26																				
ZZZZZZ			09:55																				
ZZZZZZ			10:01																				
ZZZZZZ			10:04																				
ZZZZZZ			10:28																				
ZZZZZZ			10:33																				
ZZZZZZ			10:34																				
ZZZZZZ			10:49																				
ZZZZZZ			10:50																				
ZZZZZZ			10:57																				
ZZZZZZ			11:03																				
ZZZZZZ			11:34																				
ZZZZZZ			11:50																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/11/2013 08:26 End Date: 03/11/2013 08:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-135237/1	1	T	08:26	X																			
680-88065-6	1	T	08:26	X																			
680-88065-5	1	T	08:26	X																			
680-88065-5 MS	1	T	08:26	X																			
680-88065-5 MSD	1	T	08:26	X																			
680-88065-4	1	T	08:26	X																			
680-88065-3	1	T	08:26	X																			
680-88065-2	1	T	08:26	X																			
680-88065-1	1	T	08:26	X																			
680-88065-7	1	T	08:26	X																			
680-88065-8	1	T	08:26	X																			
680-88065-9	1	T	08:26	X																			
680-88065-10	1	T	08:26	X																			
680-88065-11	1	T	08:26	X																			
680-88065-12	1	T	08:26	X																			
680-88065-13	1	T	08:26	X																			
680-88065-14	1	T	08:26	X																			
680-88065-15	1	T	08:26	X																			
680-88065-16	1	T	08:26	X																			
680-88065-17	1	T	08:26	X																			
680-88065-18	1	T	08:26	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135237 Batch Start Date: 03/11/13 08:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135237/1		Moisture		mb	0 g	9.07 g	9.08 g		
680-88065-A-6	CV0333B-CS-SP	Moisture	T	1	0 g	4.64 g	3.49 g		
680-88065-A-5	CV0333A-CS-SP	Moisture	T	2	0 g	4.14 g	3.09 g		
680-88065-A-5 MS	CV0333A-CS-SP	Moisture	T	2	0 g	4.14 g	3.09 g		
680-88065-A-5 MSD	CV0333A-CS-SP	Moisture	T	2	0 g	4.14 g	3.09 g		
680-88065-A-4	CV0793B-CS-SP	Moisture	T	3	0 g	5.13 g	4.09 g		
680-88065-A-3	CV0793A-CS-SP	Moisture	T	4	0 g	4.33 g	3.52 g		
680-88065-A-2	CV0079B-CS-SP	Moisture	T	5	0 g	4.50 g	3.51 g		
680-88065-A-1	CV0079A-CS-SP	Moisture	T	6	0 g	4.13 g	3.28 g		
680-88065-A-7	FM0144A-CS	Moisture	T	7	0 g	4.82 g	3.96 g		
680-88065-A-8	FM0134A-CS	Moisture	T	8	0 g	4.68 g	3.04 g		
680-88065-A-9	FM0134A-CSD	Moisture	T	9	0 g	4.61 g	3.58 g		
680-88065-A-10	FM0134B-CS	Moisture	T	10	0 g	4.52 g	3.15 g		
680-88065-A-11	FM0134C-CS	Moisture	T	11	0 g	4.47 g	3.12 g		
680-88065-A-12	CV0278A-CS	Moisture	T	12	0 g	4.55 g	3.72 g		
680-88065-A-13	CV0278A-CSD	Moisture	T	13	0 g	5.01 g	3.48 g		
680-88065-A-14	CV0278B-CS	Moisture	T	14	0 g	6.21 g	5.04 g		
680-88065-A-15	CV0236A-CS	Moisture	T	15	0 g	4.23 g	3.51 g		
680-88065-A-16	CV0236B-CS	Moisture	T	16	0 g	4.01 g	3.06 g		
680-88065-A-17	HP0313A-CS-SP	Moisture	T	17	0 g	5.09 g	3.67 g		
680-88065-A-18	HP0313B-CS-SP	Moisture	T	18	0 g	4.29 g	1.80 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.11.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88065-1

SDG No.: 68088065-1

Batch Number: 135255 Batch Start Date: 03/11/13 06:39 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135255/1		Moisture		0 g	10.009 g	9.022 g			
680-88065-A-19	HP0138A-CS-SP	Moisture	T	0 g	4.788 g	3.824 g			
680-88065-A-20	HP0138B-CS-SP	Moisture	T	0 g	4.266 g	3.139 g			
LCSD 660-135255/22		Moisture		0 g	10.016 g	9.029 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59584

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	20051148-1356	AL	1	3

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
LISA HARVEY		

CLIENT (SITE) PM: (b) (6)

CLIENT PHONE: (b) (6)

CLIENT FAX:

CLIENT ADDRESS: (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA-8									REMARKS
								PRESERVATIVE										
3-4-13	0950	CV0079A-CS-SP	C		X			X										
	1000	CV0079B-CS-SP	C		X			X										
	1035	CV0793A-CS-SP	C		X			X										
	1043	CV0793B-CS-SP	C		X			X										
	1130	CV0333A-CS-SP	C		X			X	X									
	1140	CV0333B-CS-SP	C		X			X										
	1255	FM0144A-CS	C		X			X										
	1320	FM0134A-CS	C		X			X										
	1320	FM0134A-CSD	C		X			X										
	1330	FM0134B-CS	C		X			X										
	1340	FM0134C-CS	C		X			X										
	1430	CV0278A-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/5/12	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]	03/07/13	0944	YES ○ NO ○		680-88065	3.8°C

TAL8240-680 (1008)

Serial Number 59585

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.: 2005148-1386	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: LISA HARVEY	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
(b) (6) CLIENT NAME	(b) (6) CLIENT E-MAIL	
(b) (6) CLIENT ADDRESS		
(b) (6) COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 3

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA-8									REMARKS
3-4-13	1430	CV0278A-CSD	C		X			X										
	1440	CV0278B-CS	C		X			X										
	1520	CV0236A-CS	C		X			X										
	1530	CV0236B-CS	C		X			X										
	1331	HP0313A-CS-SP	C		X			X										
	1342	HP0313B-CS-SP	C		X			X										
	1421	HP0168A-CS-SP	C		X			X										
	1435	HP0168B-CS-SP	C		X			X										
	1517	HP0097A-CS-SP	C		X			X										cancel per L.K.
	1531	HP0097B-CS-SP	C		X			X										cancel
	1550	HP0097C-CS-SP	C		X			X	X									cancel
	1550	HP0097C-CS-SP (SIEVED)	C		X				X									cancel

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/5/13	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]	03/07/13	~~0800~~ 0944	YES ○ NO ○		680 88065	3.8°C

TAL8240-680 (1008)

Serial Number 59586

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35TH AVE REMOVAL	2005148-13560	AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
LISA HARVEY		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
(b) (6)		
CLIENT NAME	CLIENT E-MAIL	
(b) (6)		
CLIENT ADDRESS		
(b) (6)		
Contract Compliance Title Form (if applicable)		

PAGE 3 OF 3

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	RCRA-8	LLPAH									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
3-4-13	1130	CVO333A-CS-SP (STEVEN)	C		X			X										
3/5/13	1341	030513-RB-Shovel	G ✓					X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/5/13	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]	03/07/13	0944	YES ◯ NO ◯		180-88065	3.8°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
SDG Number: 68088065-1

Login Number: 88065
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 -21 through -24 have been cancelled per client email.
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: 680-88065-1
SDG Number: 68088065-1

Login Number: 88065
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 03/08/13 10:02 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

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: 680-88065-1
TestAmerica Sample Delivery Group: 68088065-1
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:
3/18/2013 10:41:53 AM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-88065-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88065-1

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 03/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0079A-CS-SP (680-88065-1), CV0079B-CS-SP (680-88065-2), CV0793A-CS-SP (680-88065-3), CV0793B-CS-SP (680-88065-4), CV0333A-CS-SP (680-88065-5), CV0333B-CS-SP (680-88065-6), FM0144A-CS (680-88065-7), FM0134A-CS (680-88065-8), FM0134A-CSD (680-88065-9), FM0134B-CS (680-88065-10), FM0134C-CS (680-88065-11), CV0278A-CS (680-88065-12), CV0278A-CSD (680-88065-13), CV0278B-CS (680-88065-14), CV0236A-CS (680-88065-15), CV0236B-CS (680-88065-16), HP0313A-CS-SP (680-88065-17), HP0313B-CS-SP (680-88065-18), HP0138A-CS-SP (680-88065-19) and HP0138B-CS-SP (680-88065-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/08/2013 and analyzed on 03/12/2013 and 03/13/2013.

Samples CV0079A-CS-SP (680-88065-1)[4X], CV0079B-CS-SP (680-88065-2)[4X], CV0793A-CS-SP (680-88065-3)[4X], CV0793B-CS-SP (680-88065-4)[4X], CV0333A-CS-SP (680-88065-5)[4X], FM0144A-CS (680-88065-7)[4X], CV0236B-CS (680-88065-16)[4X] and HP0313A-CS-SP (680-88065-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) Water

Sample 030513-RB-Shovel (680-88065-26) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/11/2013 and analyzed on 03/13/2013.

Benzo[g,h,]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit for LCSD 660-135246/3-A. Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88065-1	CV0079A-CS-SP	Solid	03/04/13 09:50	03/07/13 09:44
680-88065-2	CV0079B-CS-SP	Solid	03/04/13 10:00	03/07/13 09:44
680-88065-3	CV0793A-CS-SP	Solid	03/04/13 10:35	03/07/13 09:44
680-88065-4	CV0793B-CS-SP	Solid	03/04/13 10:43	03/07/13 09:44
680-88065-5	CV0333A-CS-SP	Solid	03/04/13 11:30	03/07/13 09:44
680-88065-6	CV0333B-CS-SP	Solid	03/04/13 11:40	03/07/13 09:44
680-88065-7	FM0144A-CS	Solid	03/04/13 12:55	03/07/13 09:44
680-88065-8	FM0134A-CS	Solid	03/04/13 13:20	03/07/13 09:44
680-88065-9	FM0134A-CSD	Solid	03/04/13 13:20	03/07/13 09:44
680-88065-10	FM0134B-CS	Solid	03/04/13 13:30	03/07/13 09:44
680-88065-11	FM0134C-CS	Solid	03/04/13 13:40	03/07/13 09:44
680-88065-12	CV0278A-CS	Solid	03/04/13 14:30	03/07/13 09:44
680-88065-13	CV0278A-CSD	Solid	03/04/13 14:30	03/07/13 09:44
680-88065-14	CV0278B-CS	Solid	03/04/13 14:40	03/07/13 09:44
680-88065-15	CV0236A-CS	Solid	03/04/13 15:20	03/07/13 09:44
680-88065-16	CV0236B-CS	Solid	03/04/13 15:30	03/07/13 09:44
680-88065-17	HP0313A-CS-SP	Solid	03/04/13 13:31	03/07/13 09:44
680-88065-18	HP0313B-CS-SP	Solid	03/04/13 13:42	03/07/13 09:44
680-88065-19	HP0138A-CS-SP	Solid	03/04/13 14:21	03/07/13 09:44
680-88065-20	HP0138B-CS-SP	Solid	03/04/13 14:35	03/07/13 09:44
680-88065-26	030513-RB-Shovel	Water	03/04/13 13:41	03/07/13 09:44

Method Summary

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

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.
*	RPD of the LCS and LCSD 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 Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0079A-CS-SP

Lab Sample ID: 680-88065-1
Date Collected: 03/04/13 09:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 79.4

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	☼	03/08/13 10:18	03/12/13 13:56	4
Acenaphthylene	30	J	200	25	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Anthracene	150		43	21	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[a]anthracene	670		40	20	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[a]pyrene	620		53	26	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[b]fluoranthene	1100		62	31	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[g,h,i]perylene	270		100	22	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Benzo[k]fluoranthene	390		40	18	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Chrysene	670		46	23	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Dibenz(a,h)anthracene	94	J	100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Fluoranthene	1200		100	20	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Fluorene	46	J	100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Indeno[1,2,3-cd]pyrene	270		100	36	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
1-Methylnaphthalene	100	J	200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
2-Methylnaphthalene	140	J	200	36	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Naphthalene	110	J	200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Phenanthrene	650		40	20	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4
Pyrene	930		100	19	ug/Kg	☼	03/08/13 10:18	03/12/13 13:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 10:18*	*03/12/13 13:56*	*4*

Client Sample ID: CV0079B-CS-SP

Lab Sample ID: 680-88065-2
Date Collected: 03/04/13 10:00
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Acenaphthylene	60	J	210	26	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Anthracene	170		43	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[a]anthracene	800		41	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[a]pyrene	790		53	27	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[b]fluoranthene	1400		63	31	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[g,h,i]perylene	340		100	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Benzo[k]fluoranthene	540		41	18	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Chrysene	850		46	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Dibenz(a,h)anthracene	120		100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Fluoranthene	1400		100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Fluorene	48	J	100	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Indeno[1,2,3-cd]pyrene	370		100	36	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
2-Methylnaphthalene	120	J	210	36	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Naphthalene	88	J	210	23	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Phenanthrene	680		41	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4
Pyrene	1100		100	19	ug/Kg	☼	03/08/13 10:18	03/12/13 14:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*03/08/13 10:18*	*03/12/13 14:18*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0793A-CS-SP

Lab Sample ID: 680-88065-3
Date Collected: 03/04/13 10:35
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Acenaphthylene	25	J	200	25	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Anthracene	44		41	21	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[a]anthracene	220		40	19	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[a]pyrene	200		51	26	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[b]fluoranthene	420		60	30	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[g,h,i]perylene	100		99	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Benzo[k]fluoranthene	150		40	18	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Chrysene	330		44	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Dibenz(a,h)anthracene	36	J	99	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Fluoranthene	330		99	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Fluorene	99	U	99	20	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Indeno[1,2,3-cd]pyrene	90	J	99	35	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
1-Methylnaphthalene	210		200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
2-Methylnaphthalene	240		200	35	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Naphthalene	150	J	200	22	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Phenanthrene	370		40	19	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4
Pyrene	300		99	18	ug/Kg	☼	03/08/13 10:18	03/12/13 14:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*03/08/13 10:18*	*03/12/13 14:41*	*4*

Client Sample ID: CV0793B-CS-SP

Lab Sample ID: 680-88065-4
Date Collected: 03/04/13 10:43
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	48	J	130	25	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Acenaphthylene	26	J	50	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Anthracene	110		11	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[a]anthracene	1800		10	4.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[a]pyrene	2600		13	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[g,h,i]perylene	1500		25	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Benzo[k]fluoranthene	2000		10	4.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Chrysene	2300		11	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Dibenz(a,h)anthracene	540		25	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Fluoranthene	1800		25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Fluorene	35		25	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Indeno[1,2,3-cd]pyrene	1400		25	8.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
1-Methylnaphthalene	330		50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
2-Methylnaphthalene	390		50	8.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Naphthalene	270		50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Phenanthrene	720		10	4.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1
Pyrene	1900		25	4.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*03/08/13 10:18*	*03/12/13 15:04*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0793B-CS-SP

Lab Sample ID: 680-88065-4
Date Collected: 03/04/13 10:43
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	4700		61	31	ug/Kg	☼	03/08/13 10:18	03/13/13 17:11	4

Client Sample ID: CV0333A-CS-SP

Lab Sample ID: 680-88065-5
Date Collected: 03/04/13 11:30
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Acenaphthylene	30	J	210	26	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Anthracene	60		44	22	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[a]anthracene	380		42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[a]pyrene	330		55	27	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[b]fluoranthene	590		64	32	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[g,h,i]perylene	310		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Benzo[k]fluoranthene	200		42	19	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Chrysene	400		47	24	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Dibenz(a,h)anthracene	72	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Fluoranthene	520		110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Fluorene	25	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Indeno[1,2,3-cd]pyrene	260		110	37	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
2-Methylnaphthalene	240		210	37	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Naphthalene	140	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Phenanthrene	330		42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4
Pyrene	490		110	19	ug/Kg	☼	03/08/13 12:51	03/12/13 14:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/08/13 12:51*	*03/12/13 14:03*	*4*

Client Sample ID: CV0333B-CS-SP

Lab Sample ID: 680-88065-6
Date Collected: 03/04/13 11:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Acenaphthylene	20	J	52	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Anthracene	43		11	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[a]anthracene	200		10	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[a]pyrene	180		13	6.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[b]fluoranthene	370		16	7.9	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[g,h,i]perylene	79		26	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Benzo[k]fluoranthene	130		10	4.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Chrysene	240		12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Dibenz(a,h)anthracene	27		26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Fluoranthene	320		26	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Fluorene	9.3	J	26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Indeno[1,2,3-cd]pyrene	74		26	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
1-Methylnaphthalene	55		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0333B-CS-SP

Lab Sample ID: 680-88065-6
Date Collected: 03/04/13 11:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	75		52	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Naphthalene	66		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Phenanthrene	170		10	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1
Pyrene	290		26	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*03/08/13 10:18*	*03/12/13 15:26*	*1*

Client Sample ID: FM0144A-CS

Lab Sample ID: 680-88065-7
Date Collected: 03/04/13 12:55
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	J	480	96	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Acenaphthylene	50	J	190	24	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Anthracene	240		40	20	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[a]anthracene	840		39	19	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[a]pyrene	770		50	25	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[b]fluoranthene	1400		59	29	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[g,h,i]perylene	280		96	21	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Benzo[k]fluoranthene	460		39	17	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Chrysene	850		43	22	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Dibenz(a,h)anthracene	87	J	96	20	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Fluoranthene	1700		96	19	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Fluorene	98		96	20	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Indeno[1,2,3-cd]pyrene	300		96	34	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
1-Methylnaphthalene	86	J	190	21	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
2-Methylnaphthalene	82	J	190	34	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Naphthalene	70	J	190	21	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Phenanthrene	1200		39	19	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4
Pyrene	1600		96	18	ug/Kg	☼	03/08/13 10:18	03/12/13 15:49	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/08/13 10:18*	*03/12/13 15:49*	*4*

Client Sample ID: FM0134A-CS

Lab Sample ID: 680-88065-8
Date Collected: 03/04/13 13:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 65.0

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	☼	03/08/13 10:18	03/12/13 16:12	1
Acenaphthylene	60	U	60	7.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Anthracene	15		13	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[a]anthracene	74		12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[a]pyrene	56		16	7.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[b]fluoranthene	110		18	9.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[g,h,i]perylene	25	J	30	6.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Benzo[k]fluoranthene	36		12	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: FM0134A-CS

Lab Sample ID: 680-88065-8
Date Collected: 03/04/13 13:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 65.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	78		13	6.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Dibenz(a,h)anthracene	9.3	J	30	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Fluoranthene	120		30	6.0	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Fluorene	7.2	J	30	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Indeno[1,2,3-cd]pyrene	25	J	30	11	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
1-Methylnaphthalene	43	J	60	6.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
2-Methylnaphthalene	52	J	60	11	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Naphthalene	55	J	60	6.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Phenanthrene	93		12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1
Pyrene	110		30	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 10:18*	*03/12/13 16:12*	*1*

Client Sample ID: FM0134A-CSD

Lab Sample ID: 680-88065-9
Date Collected: 03/04/13 13:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Acenaphthylene	18	J	52	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Anthracene	31		11	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[a]anthracene	190		10	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[a]pyrene	170		13	6.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[b]fluoranthene	350		16	7.9	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[g,h,i]perylene	77		26	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Benzo[k]fluoranthene	130		10	4.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Chrysene	240		12	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Dibenz(a,h)anthracene	27		26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Fluoranthene	350		26	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Fluorene	10	J	26	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Indeno[1,2,3-cd]pyrene	78		26	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
1-Methylnaphthalene	88		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
2-Methylnaphthalene	100		52	9.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Naphthalene	86		52	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Phenanthrene	210		10	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1
Pyrene	300		26	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/08/13 10:18*	*03/12/13 16:34*	*1*

Client Sample ID: FM0134B-CS

Lab Sample ID: 680-88065-10
Date Collected: 03/04/13 13:30
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 69.7

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	☼	03/08/13 10:18	03/12/13 16:57	1
Acenaphthylene	56	U	56	7.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: FM0134B-CS

Lab Sample ID: 680-88065-10
Date Collected: 03/04/13 13:30
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	17		12	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[a]anthracene	62		11	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[a]pyrene	51		15	7.3	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[b]fluoranthene	100		17	8.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[g,h,i]perylene	23	J	28	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Benzo[k]fluoranthene	29		11	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Chrysene	68		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Dibenz(a,h)anthracene	6.5	J	28	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Fluoranthene	110		28	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Fluorene	8.1	J	28	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Indeno[1,2,3-cd]pyrene	22	J	28	10	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
1-Methylnaphthalene	16	J	56	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
2-Methylnaphthalene	21	J	56	10	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Naphthalene	25	J	56	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Phenanthrene	82		11	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1
Pyrene	95		28	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/08/13 10:18*	*03/12/13 16:57*	*1*

Client Sample ID: FM0134C-CS

Lab Sample ID: 680-88065-11
Date Collected: 03/04/13 13:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 69.8

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	☼	03/08/13 10:18	03/12/13 17:20	1
Acenaphthylene	57	U	57	7.1	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Anthracene	27		12	6.0	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[a]anthracene	210		11	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[a]pyrene	170		15	7.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[b]fluoranthene	340		17	8.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[g,h,i]perylene	60		29	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Benzo[k]fluoranthene	110		11	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Chrysene	190		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Dibenz(a,h)anthracene	21	J	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Fluoranthene	330		29	5.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Fluorene	29	U	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Indeno[1,2,3 cd]pyrene	60		29	10	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
1-Methylnaphthalene	18	J	57	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
2-Methylnaphthalene	24	J	57	10	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Naphthalene	27	J	57	6.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Phenanthrene	120		11	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1
Pyrene	320		29	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/08/13 10:18*	*03/12/13 17:20*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0278A-CS

Lab Sample ID: 680-88065-12
Date Collected: 03/04/13 14:30
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Acenaphthylene	46	J	49	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Anthracene	48		10	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[a]anthracene	180		9.8	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[a]pyrene	240		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[b]fluoranthene	450		15	7.5	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[g,h,i]perylene	110		25	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Benzo[k]fluoranthene	130		9.8	4.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Chrysene	310		11	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Dibenz(a,h)anthracene	36		25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Fluoranthene	210		25	4.9	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Fluorene	19	J	25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Indeno[1,2,3-cd]pyrene	87		25	8.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
1-Methylnaphthalene	70		49	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
2-Methylnaphthalene	83		49	8.7	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Naphthalene	48	J	49	5.4	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Phenanthrene	130		9.8	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1
Pyrene	300		25	4.5	ug/Kg	☼	03/08/13 10:18	03/12/13 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/08/13 10:18*	*03/12/13 17:42*	*1*

Client Sample ID: CV0278A-CSD

Lab Sample ID: 680-88065-13
Date Collected: 03/04/13 14:30
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 69.5

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	29	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Acenaphthylene	17	J	58	7.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Anthracene	15		12	6.1	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[a]anthracene	59		12	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[a]pyrene	66		15	7.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[b]fluoranthene	170		18	8.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[g,h,i]perylene	32		29	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Benzo[k]fluoranthene	58		12	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Chrysene	100		13	6.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Dibenz(a,h)anthracene	15	J	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Fluoranthene	110		29	5.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Fluorene	29	U	29	5.9	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Indeno[1,2,3-cd]pyrene	31		29	10	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
1-Methylnaphthalene	26	J	58	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
2-Methylnaphthalene	35	J	58	10	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Naphthalene	30	J	58	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Phenanthrene	59		12	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1
Pyrene	110		29	5.3	ug/Kg	☼	03/08/13 10:18	03/12/13 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/08/13 10:18*	*03/12/13 18:05*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0278B-CS

Lab Sample ID: 680-88065-14
Date Collected: 03/04/13 14:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 81.2

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	☼	03/08/13 10:18	03/12/13 18:27	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Anthracene	10	U	10	5.2	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[a]anthracene	**20**		9.9	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[a]pyrene	**21**		13	6.4	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[b]fluoranthene	**42**		15	7.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[g,h,i]perylene	**14**	**J**	25	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Benzo[k]fluoranthene	**12**		9.9	4.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Chrysene	**25**		11	5.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Dibenz(a,h)an hracene	25	U	25	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Fluoranthene	**19**	**J**	25	5.0	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Indeno[1,2,3-cd]pyrene	**9.6**	**J**	25	8.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
1-Methylnaphthalene	50	U	50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
2-Methylnaphthalene	50	U	50	8.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Naphthalene	**6.7**	**J**	50	5.5	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Phenanthrene	**15**		9.9	4.8	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1
Pyrene	**19**	**J**	25	4.6	ug/Kg	☼	03/08/13 10:18	03/12/13 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 10:18*	*03/12/13 18:27*	*1*

Client Sample ID: CV0236A-CS

Lab Sample ID: 680-88065-15
Date Collected: 03/04/13 15:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 83.0

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	☼	03/08/13 10:18	03/13/13 13:49	1
Acenaphthylene	**23**	**J**	48	6.0	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Anthracene	**37**		10	5.0	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[a]anthracene	**210**		9.6	4.7	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[a]pyrene	**200**		12	6.2	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[b]fluoranthene	**360**		15	7.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[g,h,i]perylene	**160**		24	5.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Benzo[k]fluoranthene	**160**		9.6	4.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Chrysene	**270**		11	5.4	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Dibenz(a,h)anthracene	**46**		24	4.9	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Fluoranthene	**330**		24	4.8	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Fluorene	**19**	**J**	24	4.9	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Indeno[1,2,3-cd]pyrene	**150**		24	8.5	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
1-Methylnaphthalene	**160**		48	5.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
2-Methylnaphthalene	**170**		48	8.5	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Naphthalene	**120**		48	5.3	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Phenanthrene	**230**		9.6	4.7	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1
Pyrene	**310**		24	4.4	ug/Kg	☼	03/08/13 10:18	03/13/13 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/08/13 10:18*	*03/13/13 13:49*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0236B-CS

Lab Sample ID: 680-88065-16

Date Collected: 03/04/13 15:30
Date Received: 03/07/13 09:44

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	520	U	520	100	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Acenaphthylene	39	J	210	26	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Anthracene	71		44	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[a]anthracene	480		42	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[a]pyrene	360		54	27	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[b]fluoranthene	620		64	32	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[g,h,i]perylene	280		100	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Benzo[k]fluoranthene	170		42	19	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Chrysene	450		47	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Dibenz(a,h)anthracene	96	J	100	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Fluoranthene	710		100	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Fluorene	39	J	100	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Indeno[1,2,3-cd]pyrene	230		100	37	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
1-Methylnaphthalene	480		210	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
2-Methylnaphthalene	530		210	37	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Naphthalene	340		210	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Phenanthrene	520		42	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4
Pyrene	610		100	19	ug/Kg	☼	03/08/13 10:18	03/13/13 14:07	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*03/08/13 10:18*	*03/13/13 14:07*	*4*

Client Sample ID: HP0313A-CS-SP

Lab Sample ID: 680-88065-17

Date Collected: 03/04/13 13:31
Date Received: 03/07/13 09:44

Matrix: Solid
Percent Solids: 72.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Acenaphthylene	200	J	220	27	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Anthracene	220		46	23	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[a]anthracene	960		44	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[a]pyrene	1100		57	28	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[b]fluoranthene	1700		67	33	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[g,h,i]perylene	960		110	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Benzo[k]fluoranthene	820		44	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Chrysene	1200		49	25	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Dibenz(a,h)anthracene	260		110	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Fluoranthene	1400		110	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Fluorene	93	J	110	22	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Indeno[1,2,3-cd]pyrene	810		110	39	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
1-Methylnaphthalene	360		220	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
2-Methylnaphthalene	510		220	39	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Naphthalene	940		220	24	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Phenanthrene	1000		44	21	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4
Pyrene	1400		110	20	ug/Kg	☼	03/08/13 10:18	03/13/13 14:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/08/13 10:18*	*03/13/13 14:25*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: HP0313B-CS-SP

Lab Sample ID: 680-88065-18
Date Collected: 03/04/13 13:42
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 42.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	240	U	240	48	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Acenaphthylene	96	U	96	12	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Anthracene	**11**	**J**	20	10	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[a]anthracene	**37**		19	9.3	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[a]pyrene	**45**		25	12	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[b]fluoranthene	**67**		29	15	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[g,h,i]perylene	**57**		48	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Benzo[k]fluoranthene	**19**		19	8.6	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Chrysene	**61**		22	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Dibenz(a,h)anthracene	**11**	**J**	48	9.8	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Fluoranthene	**81**		48	9.6	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Fluorene	48	U	48	9.8	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Indeno[1,2,3-cd]pyrene	**30**	**J**	48	17	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
1-Methylnaphthalene	**41**	**J**	96	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
2-Methylnaphthalene	**54**	**J**	96	17	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Naphthalene	**130**		96	11	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Phenanthrene	**83**		19	9.3	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1
Pyrene	**52**		48	8.8	ug/Kg	☼	03/08/13 10:18	03/13/13 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*38*		*30 - 130*	*03/08/13 10:18*	*03/13/13 14:44*	*1*

Client Sample ID: HP0138A-CS-SP

Lab Sample ID: 680-88065-19
Date Collected: 03/04/13 14:21
Matrix: Solid
Date Received: 03/07/13 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	☼	03/08/13 12:51	03/12/13 15:16	1
Acenaphthylene	**15**	**J**	50	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Anthracene	**14**		10	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[a]anthracene	**100**		10	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[a]pyrene	**93**		13	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[b]fluoranthene	**130**		15	7.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[g,h,i]perylene	**67**		25	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Benzo[k]fluoranthene	**43**		10	4.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Chrysene	**110**		11	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Dibenz(a,h)anthracene	**20**	**J**	25	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Fluoranthene	**110**		25	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Fluorene	**7.9**	**J**	25	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Indeno[1,2,3-cd]pyrene	**51**		25	8.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
1-Methylnaphthalene	**28**	**J**	50	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
2-Methylnaphthalene	**33**	**J**	50	8.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Naphthalene	**54**		50	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Phenanthrene	**69**		10	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1
Pyrene	**97**		25	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*03/08/13 12:51*	*03/12/13 15:16*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: HP0138B-CS-SP

Lab Sample ID: 680-88065-20

Date Collected: 03/04/13 14:35
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Acenaphthylene	**22**	**J**	54	6.8	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Anthracene	**24**		11	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[a]anthracene	**98**		11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[a]pyrene	**100**		14	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[b]fluoranthene	**190**		17	8.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[g,h,i]perylene	**75**		27	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Benzo[k]fluoranthene	**72**		11	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Chrysene	**130**		12	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Dibenz(a,h)anthracene	**25**	**J**	27	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Fluoranthene	**110**		27	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Fluorene	**7.8**	**J**	27	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Indeno[1,2,3-cd]pyrene	**56**		27	9.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
1-Methylnaphthalene	**29**	**J**	54	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
2-Methylnaphthalene	**54**		54	9.6	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Naphthalene	**79**		54	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Phenanthrene	**89**		11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1
Pyrene	**110**		27	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*03/08/13 12:51*	*03/12/13 15:35*	*1*

Client Sample ID: 030513-RB-Shovel

Lab Sample ID: 680-88065-26

Date Collected: 03/04/13 13:41
Matrix: Water
Date Received: 03/07/13 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
Acenaphthylene	0.94	U	0.94	0.23	ug/L		03/11/13 10:17	03/13/13 13:30	1
Anthracene	0.19	U	0.19	0.071	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[a]anthracene	0.19	U	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[a]pyrene	0.19	U	0.19	0.054	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[b]fluoranthene	0.19	U	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[g,h,i]perylene	0.47	U *	0.47	0.094	ug/L		03/11/13 10:17	03/13/13 13:30	1
Benzo[k]fluoranthene	0.19	U	0.19	0.054	ug/L		03/11/13 10:17	03/13/13 13:30	1
Chrysene	0.19	U	0.19	0.065	ug/L		03/11/13 10:17	03/13/13 13:30	1
Dibenz(a,h)an hracene	0.19	U *	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
Fluoranthene	0.47	U	0.47	0.051	ug/L		03/11/13 10:17	03/13/13 13:30	1
Fluorene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.047	ug/L		03/11/13 10:17	03/13/13 13:30	1
1-Methylnaphthalene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
2-Methylnaphthalene	1.9	U	1.9	0.47	ug/L		03/11/13 10:17	03/13/13 13:30	1
Naphthalene	1.9	U	1.9	0.23	ug/L		03/11/13 10:17	03/13/13 13:30	1
Phenanthrene	0.47	U	0.47	0.19	ug/L		03/11/13 10:17	03/13/13 13:30	1
Pyrene	0.47	U	0.47	0.084	ug/L		03/11/13 10:17	03/13/13 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*03/11/13 10:17*	*03/13/13 13:30*	*1*

QC Sample Results

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

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

Lab Sample ID: MB 660-135195/1-A
Matrix: Solid
Analysis Batch: 135345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Dibenz(a,h)an hracene	20	U	20	4.0	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Fluoranthene	20	U	20	3.9	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Fluorene	20	U	20	4.0	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Naphthalene	39	U	39	4.3	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/08/13 10:18	03/12/13 11:18	1
Pyrene	20	U	20	3.6	ug/Kg		03/08/13 10:18	03/12/13 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*03/08/13 10:18*	*03/12/13 11:18*	*1*

Lab Sample ID: LCS 660-135195/2-A
Matrix: Solid
Analysis Batch: 135345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	460		ug/Kg		70	39 - 130
Acenaphthylene	656	482		ug/Kg		73	38 - 130
Anthracene	656	488		ug/Kg		74	37 - 130
Benzo[a]anthracene	656	510		ug/Kg		78	40 - 130
Benzo[a]pyrene	656	457		ug/Kg		70	49 - 130
Benzo[b]fluoranthene	656	479		ug/Kg		73	37 - 130
Benzo[g,h,i]perylene	656	465		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	656	511		ug/Kg		78	32 - 130
Chrysene	656	478		ug/Kg		73	41 - 130
Dibenz(a,h)an hracene	656	504		ug/Kg		77	27 - 130
Fluoranthene	656	523		ug/Kg		80	40 - 130
Fluorene	656	497		ug/Kg		76	40 - 130
Indeno[1,2,3-cd]pyrene	656	476		ug/Kg		73	30 - 130
1-Methylnaphthalene	656	521		ug/Kg		79	31 - 130
2-Methylnaphthalene	656	505		ug/Kg		77	33 - 130
Naphthalene	656	463		ug/Kg		71	36 - 130
Phenanthrene	656	478		ug/Kg		73	42 - 130
Pyrene	656	461		ug/Kg		70	44 - 130

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

Lab Sample ID: LCS 660-135195/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135345 — **Prep Batch: 135195**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	73		30 - 130

Lab Sample ID: MB 660-135207/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135316 — **Prep Batch: 135207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Fluorene	20	U	20	4.1	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Naphthalene	40	U	40	4.4	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/08/13 12:51	03/12/13 13:27	1
Pyrene	20	U	20	3.7	ug/Kg		03/08/13 12:51	03/12/13 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		30 - 130	03/08/13 12:51	03/12/13 13:27	1

Lab Sample ID: LCS 660-135207/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135316 — **Prep Batch: 135207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	670	490		ug/Kg		73	39 - 130
Acenaphthylene	670	539		ug/Kg		80	38 - 130
Anthracene	670	518		ug/Kg		77	37 - 130
Benzo[a]anthracene	670	530		ug/Kg		79	40 - 130
Benzo[a]pyrene	670	497		ug/Kg		74	49 - 130
Benzo[b]fluoranthene	670	511		ug/Kg		76	37 - 130
Benzo[g,h,i]perylene	670	505		ug/Kg		75	32 - 130
Benzo[k]fluoranthene	670	563		ug/Kg		84	32 - 130
Chrysene	670	487		ug/Kg		73	41 - 130
Dibenz(a,h)an hracene	670	543		ug/Kg		81	27 - 130
Fluoranthene	670	531		ug/Kg		79	40 - 130
Fluorene	670	547		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	670	481		ug/Kg		72	30 - 130
1-Methylnaphthalene	670	563		ug/Kg		84	31 - 130

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

Lab Sample ID: LCS 660-135207/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135316 — **Prep Batch: 135207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	670	515		ug/Kg		77	33 - 130
Naphthalene	670	504		ug/Kg		75	36 - 130
Phenanthrene	670	473		ug/Kg		71	42 - 130
Pyrene	670	537		ug/Kg		80	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*77*		*30 - 130*

Lab Sample ID: 680-88065-5 MS — **Client Sample ID: CV0333A-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135316 — **Prep Batch: 135207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	530	U	877	748		ug/Kg	☼	85	39 - 130
Acenaphthylene	30	J	877	864		ug/Kg	☼	95	38 - 130
Anthracene	60		877	836		ug/Kg	☼	89	37 - 130
Benzo[a]anthracene	380		877	1090		ug/Kg	☼	80	40 - 130
Benzo[a]pyrene	330		877	947		ug/Kg	☼	71	49 - 130
Benzo[b]fluoranthene	590		877	1070		ug/Kg	☼	55	37 - 130
Benzo[g,h,i]perylene	310		877	851		ug/Kg	☼	62	32 - 130
Benzo[k]fluoranthene	200		877	1030		ug/Kg	☼	95	32 - 130
Chrysene	400		877	1070		ug/Kg	☼	77	41 - 130
Dibenz(a,h)an hracene	72	J	877	755		ug/Kg	☼	78	27 - 130
Fluoranthene	520		877	1250		ug/Kg	☼	83	40 - 130
Fluorene	25	J	877	781		ug/Kg	☼	86	40 - 130
Indeno[1,2,3-cd]pyrene	260		877	855		ug/Kg	☼	68	30 - 130
1-Methylnaphthalene	130	J	877	989		ug/Kg	☼	98	31 - 130
2-Methylnaphthalene	240		877	1130		ug/Kg	☼	102	33 - 130
Naphthalene	140	J	877	857		ug/Kg	☼	81	36 - 130
Phenanthrene	330		877	1090		ug/Kg	☼	87	42 - 130
Pyrene	490		877	1230		ug/Kg	☼	83	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*82*		*30 - 130*

Lab Sample ID: 680-88065-5 MSD — **Client Sample ID: CV0333A-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135316 — **Prep Batch: 135207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	530	U	877	830		ug/Kg	☼	95	39 - 130	10	40
Acenaphthylene	30	J	877	763		ug/Kg	☼	84	38 - 130	12	40
Anthracene	60		877	796		ug/Kg	☼	84	37 - 130	5	40
Benzo[a]anthracene	380		877	1050		ug/Kg	☼	76	40 - 130	4	40
Benzo[a]pyrene	330		877	959		ug/Kg	☼	72	49 - 130	1	40
Benzo[b]fluoranthene	590		877	1110		ug/Kg	☼	60	37 - 130	4	40
Benzo[g,h,i]perylene	310		877	848		ug/Kg	☼	61	32 - 130	0	40
Benzo[k]fluoranthene	200		877	1030		ug/Kg	☼	95	32 - 130	0	40

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

Lab Sample ID: 680-88065-5 MSD — **Client Sample ID: CV0333A-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135316 — **Prep Batch: 135207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	400		877	1080		ug/Kg	☼	77	41 - 130	1	40
Dibenz(a,h)an hracene	72	J	877	729		ug/Kg	☼	75	27 - 130	4	40
Fluoranthene	520		877	1240		ug/Kg	☼	82	40 - 130	1	40
Fluorene	25	J	877	771		ug/Kg	☼	85	40 - 130	1	40
Indeno[1,2,3-cd]pyrene	260		877	822		ug/Kg	☼	64	30 - 130	4	40
1-Methylnaphthalene	130	J	877	941		ug/Kg	☼	92	31 - 130	5	40
2-Methylnaphthalene	240		877	986		ug/Kg	☼	86	33 - 130	14	40
Naphthalene	140	J	877	854		ug/Kg	☼	81	36 - 130	0	40
Phenanthrene	330		877	1070		ug/Kg	☼	85	42 - 130	2	40
Pyrene	490		877	1240		ug/Kg	☼	85	44 - 130	1	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*79*		*30 - 130*

Lab Sample ID: MB 660-135246/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135360 — **Prep Batch: 135246**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.50	ug/L		03/11/13 10:17	03/13/13 12:35	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		03/11/13 10:17	03/13/13 12:35	1
Anthracene	0.20	U	0.20	0.076	ug/L		03/11/13 10:17	03/13/13 12:35	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		03/11/13 10:17	03/13/13 12:35	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		03/11/13 10:17	03/13/13 12:35	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		03/11/13 10:17	03/13/13 12:35	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		03/11/13 10:17	03/13/13 12:35	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		03/11/13 10:17	03/13/13 12:35	1
Chrysene	0.20	U	0.20	0.069	ug/L		03/11/13 10:17	03/13/13 12:35	1
Dibenz(a,h)an hracene	0.20	U	0.20	0.050	ug/L		03/11/13 10:17	03/13/13 12:35	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		03/11/13 10:17	03/13/13 12:35	1
Fluorene	2.0	U	2.0	0.50	ug/L		03/11/13 10:17	03/13/13 12:35	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		03/11/13 10:17	03/13/13 12:35	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/11/13 10:17	03/13/13 12:35	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/11/13 10:17	03/13/13 12:35	1
Naphthalene	2.0	U	2.0	0.25	ug/L		03/11/13 10:17	03/13/13 12:35	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		03/11/13 10:17	03/13/13 12:35	1
Pyrene	0.50	U	0.50	0.089	ug/L		03/11/13 10:17	03/13/13 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*03/11/13 10:17*	*03/13/13 12:35*	*1*

Lab Sample ID: LCS 660-135246/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135360 — **Prep Batch: 135246**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	9.86		ug/L		99	55 - 132
Acenaphthylene	10.0	9.65		ug/L		96	39 - 130

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

Lab Sample ID: LCS 660-135246/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135360 — **Prep Batch: 135246**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	10.0	8.69		ug/L		87	39 - 130
Benzo[a]anthracene	10.0	8.88		ug/L		89	54 - 135
Benzo[a]pyrene	10.0	6.62		ug/L		66	21 - 130
Benzo[b]fluoranthene	10 0	9 42		ug/L		94	37 - 130
Benzo[g,h,i]perylene	10.0	7.46		ug/L		75	26 - 130
Benzo[k]fluoranthene	10.0	8.74		ug/L		87	38 - 130
Chrysene	10.0	8.67		ug/L		87	56 - 130
Dibenz(a,h)an hracene	10.0	7.90		ug/L		79	13 - 130
Fluoranthene	10.0	9.41		ug/L		94	60 - 130
Fluorene	10.0	9.95		ug/L		100	55 - 140
Indeno[1,2,3-cd]pyrene	10.0	7.06		ug/L		71	21 - 130
1-Methylnaphthalene	10.0	10.1		ug/L		101	49 - 130
2-Methylnaphthalene	10.0	9.43		ug/L		94	48 - 130
Naphthalene	10.0	9.28		ug/L		93	54 - 133
Phenanthrene	10.0	9.45		ug/L		95	60 - 136
Pyrene	10.0	9.26		ug/L		93	60 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*30 - 130*

Lab Sample ID: LCSD 660-135246/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 135360 — **Prep Batch: 135246**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	10.0	9.52		ug/L		95	55 - 132	3	35
Acenaphthylene	10.0	9.37		ug/L		94	39 - 130	3	35
Anthracene	10.0	8.42		ug/L		84	39 - 130	3	35
Benzo[a]anthracene	10.0	8.54		ug/L		85	54 - 135	4	35
Benzo[a]pyrene	10.0	5.54		ug/L		55	21 - 130	18	35
Benzo[b]fluoranthene	10.0	6.75		ug/L		67	37 - 130	33	35
Benzo[g,h,i]perylene	10.0	4.72	*	ug/L		47	26 - 130	45	35
Benzo[k]fluoranthene	10.0	7.47		ug/L		75	38 - 130	16	35
Chrysene	10.0	8.26		ug/L		83	56 - 130	5	35
Dibenz(a,h)an hracene	10.0	4.44	*	ug/L		44	13 - 130	56	35
Fluoranthene	10.0	9.42		ug/L		94	60 - 130	0	35
Fluorene	10.0	10.1		ug/L		101	55 - 140	1	35
Indeno[1,2,3-cd]pyrene	10.0	4.60	*	ug/L		46	21 - 130	42	35
1-Methylnaphthalene	10.0	10.1		ug/L		101	49 - 130	0	35
2-Methylnaphthalene	10.0	9.96		ug/L		100	48 - 130	6	35
Naphthalene	10.0	9.79		ug/L		98	54 - 133	5	35
Phenanthrene	10.0	9.07		ug/L		91	60 - 136	4	35
Pyrene	10.0	9.73		ug/L		97	60 - 138	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*86*		*30 - 130*

QC Association Summary

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

GC/MS Semi VOA

Prep Batch: 135195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-1	CV0079A-CS-SP	Total/NA	Solid	3546	
680-88065-2	CV0079B-CS-SP	Total/NA	Solid	3546	
680-88065-3	CV0793A-CS-SP	Total/NA	Solid	3546	
680-88065-4	CV0793B-CS-SP	Total/NA	Solid	3546	
680-88065-4 - DL	CV0793B-CS-SP	Total/NA	Solid	3546	
680-88065-6	CV0333B-CS-SP	Total/NA	Solid	3546	
680-88065-7	FM0144A-CS	Total/NA	Solid	3546	
680-88065-8	FM0134A-CS	Total/NA	Solid	3546	
680-88065-9	FM0134A-CSD	Total/NA	Solid	3546	
680-88065-10	FM0134B-CS	Total/NA	Solid	3546	
680-88065-11	FM0134C-CS	Total/NA	Solid	3546	
680-88065-12	CV0278A-CS	Total/NA	Solid	3546	
680-88065-13	CV0278A-CSD	Total/NA	Solid	3546	
680-88065-14	CV0278B-CS	Total/NA	Solid	3546	
680-88065-15	CV0236A-CS	Total/NA	Solid	3546	
680-88065-16	CV0236B-CS	Total/NA	Solid	3546	
680-88065-17	HP0313A-CS-SP	Total/NA	Solid	3546	
680-88065-18	HP0313B-CS-SP	Total/NA	Solid	3546	
LCS 660-135195/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135195/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-5	CV0333A-CS-SP	Total/NA	Solid	3546	
680-88065-5 MS	CV0333A-CS-SP	Total/NA	Solid	3546	
680-88065-5 MSD	CV0333A-CS-SP	Total/NA	Solid	3546	
680-88065-19	HP0138A-CS-SP	Total/NA	Solid	3546	
680-88065-20	HP0138B-CS-SP	Total/NA	Solid	3546	
LCS 660-135207/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135207/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-26	030513-RB-Shovel	Total/NA	Water	3520C	
LCS 660-135246/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 660-135246/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 660-135246/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 135316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-5	CV0333A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88065-5 MS	CV0333A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88065-5 MSD	CV0333A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88065-19	HP0138A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88065-20	HP0138B-CS-SP	Total/NA	Solid	8270C LL	135207
LCS 660-135207/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135207
MB 660-135207/1-A	Method Blank	Total/NA	Solid	8270C LL	135207

Analysis Batch: 135345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-1	CV0079A-CS-SP	Total/NA	Solid	8270C LL	135195

GC/MS Semi VOA (Continued)

Analysis Batch: 135345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-2	CV0079B-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-3	CV0793A-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-4	CV0793B-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-6	CV0333B-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-7	FM0144A-CS	Total/NA	Solid	8270C LL	135195
680-88065-8	FM0134A-CS	Total/NA	Solid	8270C LL	135195
680-88065-9	FM0134A-CSD	Total/NA	Solid	8270C LL	135195
680-88065-10	FM0134B-CS	Total/NA	Solid	8270C LL	135195
680-88065-11	FM0134C-CS	Total/NA	Solid	8270C LL	135195
680-88065-12	CV0278A-CS	Total/NA	Solid	8270C LL	135195
680-88065-13	CV0278A-CSD	Total/NA	Solid	8270C LL	135195
680-88065-14	CV0278B-CS	Total/NA	Solid	8270C LL	135195
LCS 660-135195/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135195
MB 660-135195/1-A	Method Blank	Total/NA	Solid	8270C LL	135195

Analysis Batch: 135360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-4 - DL	CV0793B-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-15	CV0236A-CS	Total/NA	Solid	8270C LL	135195
680-88065-16	CV0236B-CS	Total/NA	Solid	8270C LL	135195
680-88065-17	HP0313A-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-18	HP0313B-CS-SP	Total/NA	Solid	8270C LL	135195
680-88065-26	030513-RB-Shovel	Total/NA	Water	8270C LL	135246
LCS 660-135246/2-A	Lab Control Sample	Total/NA	Water	8270C LL	135246
LCSD 660-135246/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	135246
MB 660-135246/1-A	Method Blank	Total/NA	Water	8270C LL	135246

General Chemistry

Analysis Batch: 135237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-1	CV0079A-CS-SP	Total/NA	Solid	Moisture	
680-88065-2	CV0079B-CS-SP	Total/NA	Solid	Moisture	
680-88065-3	CV0793A-CS-SP	Total/NA	Solid	Moisture	
680-88065-4	CV0793B-CS-SP	Total/NA	Solid	Moisture	
680-88065-5	CV0333A-CS-SP	Total/NA	Solid	Moisture	
680-88065-5 MS	CV0333A-CS-SP	Total/NA	Solid	Moisture	
680-88065-5 MSD	CV0333A-CS-SP	Total/NA	Solid	Moisture	
680-88065-6	CV0333B-CS-SP	Total/NA	Solid	Moisture	
680-88065-7	FM0144A-CS	Total/NA	Solid	Moisture	
680-88065-8	FM0134A-CS	Total/NA	Solid	Moisture	
680-88065-9	FM0134A-CSD	Total/NA	Solid	Moisture	
680-88065-10	FM0134B-CS	Total/NA	Solid	Moisture	
680-88065-11	FM0134C-CS	Total/NA	Solid	Moisture	
680-88065-12	CV0278A-CS	Total/NA	Solid	Moisture	
680-88065-13	CV0278A-CSD	Total/NA	Solid	Moisture	
680-88065-14	CV0278B-CS	Total/NA	Solid	Moisture	
680-88065-15	CV0236A-CS	Total/NA	Solid	Moisture	
680-88065-16	CV0236B-CS	Total/NA	Solid	Moisture	
680-88065-17	HP0313A-CS-SP	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 135237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-18	HP0313B-CS-SP	Total/NA	Solid	Moisture	
MB 660-135237/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 135255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88065-19	HP0138A-CS-SP	Total/NA	Solid	Moisture	
680-88065-20	HP0138B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-135255/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135255/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0079A-CS-SP — Lab Sample ID: 680-88065-1

Date Collected: 03/04/13 09:50 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 79.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135345	03/12/13 13:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0079B-CS-SP — Lab Sample ID: 680-88065-2

Date Collected: 03/04/13 10:00 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 78.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135345	03/12/13 14:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0793A-CS-SP — Lab Sample ID: 680-88065-3

Date Collected: 03/04/13 10:35 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135345	03/12/13 14:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0793B-CS-SP — Lab Sample ID: 680-88065-4

Date Collected: 03/04/13 10:43 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 79.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 15:04	SCC	TAL TAM
Total/NA	Prep	3546	DL		135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	135360	03/13/13 17:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0333A-CS-SP — Lab Sample ID: 680-88065-5

Date Collected: 03/04/13 11:30 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 74.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135316	03/12/13 14:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0333B-CS-SP — Lab Sample ID: 680-88065-6

Date Collected: 03/04/13 11:40 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 15:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: FM0144A-CS — Lab Sample ID: 680-88065-7

Date Collected: 03/04/13 12:55 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 82.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135345	03/12/13 15:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: FM0134A-CS — Lab Sample ID: 680-88065-8

Date Collected: 03/04/13 13:20 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 65.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 16:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: FM0134A-CSD — Lab Sample ID: 680-88065-9

Date Collected: 03/04/13 13:20 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 77.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 16:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: FM0134B-CS — Lab Sample ID: 680-88065-10

Date Collected: 03/04/13 13:30 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 69.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 16:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: FM0134C-CS — Lab Sample ID: 680-88065-11

Date Collected: 03/04/13 13:40 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 69.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 17:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0278A-CS — Lab Sample ID: 680-88065-12

Date Collected: 03/04/13 14:30 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 81.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 17:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0278A-CSD — Lab Sample ID: 680-88065-13

Date Collected: 03/04/13 14:30 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 69.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 18:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0278B-CS — Lab Sample ID: 680-88065-14

Date Collected: 03/04/13 14:40 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 81.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135345	03/12/13 18:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: CV0236A-CS — Lab Sample ID: 680-88065-15

Date Collected: 03/04/13 15:20 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135360	03/13/13 13:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: CV0236B-CS — Lab Sample ID: 680-88065-16

Date Collected: 03/04/13 15:30 — **Matrix: Solid**
Date Received: 03/07/13 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			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135360	03/13/13 14:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: HP0313A-CS-SP — Lab Sample ID: 680-88065-17

Date Collected: 03/04/13 13:31 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 72.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135360	03/13/13 14:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: HP0313B-CS-SP — Lab Sample ID: 680-88065-18

Date Collected: 03/04/13 13:42 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 42.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135195	03/08/13 10:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135360	03/13/13 14:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135237	03/11/13 08:26	AG	TAL TAM

Client Sample ID: HP0138A-CS-SP — Lab Sample ID: 680-88065-19

Date Collected: 03/04/13 14:21 — **Matrix: Solid**
Date Received: 03/07/13 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			135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135316	03/12/13 15:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135255	03/11/13 08:34	AG	TAL TAM

Client Sample ID: HP0138B-CS-SP — Lab Sample ID: 680-88065-20

Date Collected: 03/04/13 14:35 — **Matrix: Solid**
Date Received: 03/07/13 09:44 — **Percent Solids: 73.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135316	03/12/13 15:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135255	03/11/13 08:42	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

Client Sample ID: 030513-RB-Shovel

Lab Sample ID: 680-88065-26

Date Collected: 03/04/13 13:41
Date Received: 03/07/13 09:44

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			135246	03/11/13 10:17	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135360	03/13/13 13:30	SCC	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 59584

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 1 OF 3
35TH AVE REMOVAL	2005148-1356	AL	
TAL (LAB) PROJECT MANAGER: LISA HARVEY	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM (b) (6)	CLIENT PHONE (b) (6)	CLIENT FAX	
CLIENT ADDRESS (b) (6)			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LL PAH; RCRA-8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA-8	REMARKS
3-4-13	0950	CV0079A-CS-SP	C		X			X		
	1000	CV0079B-CS-SP	C		X			X		
	1035	CV0793A-CS-SP	C		X			X		
	1043	CV0793B-CS-SP	C		X			X		
	1130	CV0333A-CS-SP	C		X			X	X	
	1140	CV0333B-CS-SP	C		X			X		
	1255	FM0144A-CS	C		X			X		
	1320	FM0134A-CS	C		X			X		
	1320	FM0134A-CSD	C		X			X		
	1330	FM0134B-CS	C		X			X		
	1340	FM0134C-CS	C		X			X		
	1430	CV0278A-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/5/12	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]	03/08/13	0944	YES ○ NO ○		68065	3-8° C

Page 30 of 36

3/18/2013

TAL8240-680 (1008)

Serial Number 59585

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)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 3
35TH AVE REMOVAL	2005148-1396	AL			
TAL (LAB) PROJECT MANAGER: LISA HARVEY	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX			DATE DUE
(b) (6) CLIENT NAME	CLIENT E-MAIL				EXPEDITED REPORT DELIVERY (SURCHARGE) ○
(b) (6) CLIENT ADDRESS					DATE DUE
(b) (6) COMPANY CONTRACTING THIS WORK (if applicable)				PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL RAH	RCRA-8								REMARKS
3-4-13	1430	CV0278A-CSD	C		X			X									
	1440	CV0278B-CS	C		X			X									
	1520	CV0236A-CS	C		X			X									
	1530	CV0236B-CS	C		X			X									
	1331	HP0313A-CS-SP	C		X			X									
	1342	HP0313B-CS-SP	C		X			X									
	1421	HP0168A-CS-SP	C		X			X									
	1435	HP0168B-CS-SP	C		X			X									
	1517	HP0097A-CS-SP	C		X			X									cancel per L.K.
	1531	HP0097B-CS-SP	C		X			X									cancel
	1550	HP0097C-CS-SP	C		X			X	X								cancel
	1560	HP0097C-CS-SP (SIEVED)	C		X				X								cancel

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/5/13	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
	03/07/13	0944	YES ○ NO ○		680-88065	3.8°C

TAL8240-680 (1008)

Serial Number 59586

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 3 OF 3
35TH AVE REMOVAL	2005148-13560	AL	
TAL (LAB) PROJECT MANAGER: LISA HARVEY	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX	
CLIENT NAME	CLIENT E-MAIL		
CLIENT ADDRESS			

(b) (6)
(b) (6)
(b) (6)

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE: RCRA-8, LLPAH

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	RCRA-8	LLPAH	REMARKS
3-4-13	1130	CV0333A-CS-SP (SIEVED)	C		X			X		
3/5/13	1341	030513-RB-Shovel	G	✓				X	X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/5/13	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]	03/07/13	0944	YES ○ NO ○		180-88065	3.8°

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88065-1
SDG Number: 68088065-1

Login Number: 88065
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 -21 through -24 have been cancelled per client email.
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: 680-88065-1
SDG Number: 68088065-1

Login Number: 88065
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 03/08/13 10:02 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have 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	

Certification Summary

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

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

Certification Summary

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

TestAmerica Job ID: 680-88065-1
SDG: 68088065-1

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