REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-88067-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	03/05/2013
Reviewer:	Jane Lindsey	Date:	03/26/2013
Concurrence[1]:	Carol Lovett/Nicole Lancaster	Date:	04/03/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 030513-RB-Shovel (680-88065-26).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				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?	✓			• HP0253B-CSD (680-88067-10) is a field duplicate of HP0253B-CS (680-88067-9). • CV0388A-CSD (680-88067-17) is a field duplicate of CV0388A-CS (680-88067-16).	
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 BSMA5973 • ICV: 02/22/20 @ 12:48 • CCV: 03/13/2013 @ 10:56 • Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV: 02/22/2013 @ 14:06 • CCV: 03/12/2013 @ 12:18 • CCV: 03/14/2013 @ 11:35 • Initial Calibration: 02/22/2013, instrument BSMD5973 • ICV: 02/22/2013 @ 14:51 • CCV: 03/14/2013 @ 10:46	
19. Were calibration results within laboratory/project specifications?		✓		• ICV of 02/22/2013 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1%D	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				(Lab: ≤35, Project: ≤20). Positive bias is indicated by the ICV percent difference; therefore, J-flag detected 2-methylnaphthalene results in associated samples[2]. • ICV of 02/22/2013 @ 14:06, instrument BSMC5973: o Chrysene @ -20.6%D (Lab: ≤35, Project: ≤20) o Benzo(a)pyrene @ -21.7%D (Lab: ≤35, Project: ≤20) Positive bias is indicated by the ICV percent difference; therefore, J-flag detected chrysene and benzo(a)pyrene results in associated samples[3].	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			• Prep Batch 135265: 680-88067-2 (CV0552B-CS-SP), MS/MSD • Prep Batch 135207: 680-88065-5 (Batch sample), MS/MSD • Prep Batch 135343: 680-88067-21 (Batch sample), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓				
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted.		✓		CV0552B-CS-SP (680-88067-2): • Acenaphthylene @ 22 and 22%R (38-130). J-Flag. • Anthracene @ 33 and 36%R (37-130). J-Flag. • Benzo(a)anthracene @ 45 and 38%R (40-130). Qualification of data not required[4]. • Benzo(a)pyrene @ 13 and 17%R (49-130). J-Flag. • Benzo(b)fluoranthene @ 20 and 28%R (37-130). J-	J

[2] 680-88065-2
[3] 680-88065-1, -3 through -5, and -7 through -20
[4] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• 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				Flag. • Benzo(g,h,i)perylene @ 19 and 4%R (32-130). J-Flag. • Benzo(k)fluoranthene @ 24 and 15%R (32-130). J-Flag. • Chrysene @ 25 and 4%R (41-130). J-Flag. • Fluoranthene @ 35 and 45%R (40-130). Qualification of data not required[4]. • Fluorene @ 46 and 37%R (40-130). Qualification of data not required[4]. • Indeno(1,2,3-cd)pyrene @ 25 and 24%R (30-130). J-Flag. • 1-Methylnaphthalene @ 56 and 7%R (31-130). Qualification of data not required[4]. • 2-Methylnaphthalene @ 6 and -24%R (33-130). J-Flag. • Naphthalene @ 13 and -6%R (36-130). J-Flag. • Pyrene @ 40 and 47%R (44-130). Qualification of data not required[4].	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples 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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

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: 680-88067-1
SDG: 68088067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88067-1	CV0552A-CS-SP	Solid	03/05/13 09:55	03/07/13 09:44
680-88067-2	CV0552B-CS-SP	Solid	03/05/13 10:10	03/07/13 09:44
680-88067-3	CV0558A-CS-SP	Solid	03/05/13 08:53	03/07/13 09:44
680-88067-4	CV0558B-CS-SP	Solid	03/05/13 09:05	03/07/13 09:44
680-88067-5	FM0301A-CS	Solid	03/05/13 08:40	03/07/13 09:44
680-88067-6	HP0023A-CS	Solid	03/05/13 10:50	03/07/13 09:44
680-88067-7	HP0023B-CS	Solid	03/05/13 11:00	03/07/13 09:44
680-88067-8	HP0253A-CS	Solid	03/05/13 12:40	03/07/13 09:44
680-88067-9	HP0253B-CS	Solid	03/05/13 12:50	03/07/13 09:44
680-88067-10	HP0253B-CSD	Solid	03/05/13 12:50	03/07/13 09:44
680-88067-11	HP0255A-CS	Solid	03/05/13 13:00	03/07/13 09:44
680-88067-12	CV0281A-CS	Solid	03/05/13 09:10	03/07/13 09:44
680-88067-13	CV0281B-CS	Solid	03/05/13 09:20	03/07/13 09:44
680-88067-14	CV0339A-CS-SP	Solid	03/05/13 12:44	03/07/13 09:44
680-88067-15	CV0339B-CS-SP	Solid	03/05/13 12:54	03/07/13 09:44
680-88067-16	CV0388A-CS	Solid	03/05/13 10:10	03/07/13 09:44
680-88067-17	CV0388A-CSD	Solid	03/05/13 10:10	03/07/13 09:44
680-88067-18	CV0388B-CS	Solid	03/05/13 10:20	03/07/13 09:44
680-88067-19	CV0341A-CS-SP	Solid	03/05/13 13:07	03/07/13 09:44
680-88067-20	CV0341B-CS-SP	Solid	03/05/13 13:15	03/07/13 09:44

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	HP0253B-CS (680-88067-9)		RL	HP0253B-CSD (680-88067-10)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	41	J	210			55	µg/kg	662 5	NA	41	265	None, absolute difference ≤ 2x Avg RL
Anthracene	45		43	7 5	J	12	µg/kg	137 5	NA	37 5	55	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	140		41	36		11	µg/kg	130	NA	**104**	**52**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	120		54	23		14	µg/kg	170	NA	**97**	**68**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	250		63	46		17	µg/kg	200	NA	**204**	**80**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	110		100	19	J	28	µg/kg	320	NA	91	128	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	86		41	14		11	µg/kg	130	NA	**72**	**52**	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	260		46	40		12	µg/kg	145	NA	**220**	**58**	J/UJ-flag, absolute difference > 2x Avg RL
Dibenzo(a,h)anthracene	44	J	100	10	J	28	µg/kg	320	NA	34	128	None, absolute difference ≤ 2x Avg RL
Fluoranthene	210		100	39		28	µg/kg	320	NA	**171**	**128**	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	33	J	100	9 4	J	28	µg/kg	320	NA	23 6	128	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	100		100	15	J	28	µg/kg	320	NA	85	128	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	1400		210	69		55	µg/kg	662 5	NA	**1331**	**265**	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	1900		210	75		55	µg/kg	662 5	NA	**1825**	**265**	J/UJ-flag, absolute difference > 2x Avg RL
Naphthalene	1300		210	72		55	µg/kg	662 5	NA	**1228**	**265**	J/UJ-flag, absolute difference > 2x Avg RL
Phenanthrene	640		41	59		11	µg/kg	130	NA	**581**	**52**	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	230		100	40		28	µg/kg	320	NA	**190**	**128**	J/UJ-flag, absolute difference > 2x Avg RL

Analyte	CV0388A-CS (680-88067-16)		RL	CV0388A-CSD (680-88067-17)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	150	J	570			530	µg/kg	2750	NA	150	1100	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	54	J	230	74	J	210	µg/kg	1100	NA	20	440	None, absolute difference ≤ 2x Avg RL
Anthracene	270		48	84		44	µg/kg	230	NA	**186**	**92**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	780		46	420		42	µg/kg	220	**60**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	650		59	330		55	µg/kg	285	**65**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	1000		70	690		64	µg/kg	335	**37**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	400		110	270		110	µg/kg	550	NA	130	220	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	410		46	270		42	µg/kg	220	**41**	NA	NA	None, RPD ≤ 50%
Chrysene	760		51	550		48	µg/kg	247 5	**32**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	170		110	100	J	110	µg/kg	550	NA	70	220	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1200		110	470		110	µg/kg	550	NA	**730**	**220**	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	140		110	28	J	110	µg/kg	550	NA	112	220	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	410		110	150		110	µg/kg	550	NA	**260**	**220**	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	330		230	210		210	µg/kg	1100	NA	120	440	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	350		230	250		210	µg/kg	1100	NA	100	440	None, absolute difference ≤ 2x Avg RL
Naphthalene	280		230	210		210	µg/kg	1100	NA	70	440	None, absolute difference ≤ 2x Avg RL
Phenanthrene	1300		46	350		42	µg/kg	220	**115**	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	1200		110	560		110	µg/kg	550	**73**	NA	NA	J/UJ-flag, RPD > 50%

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

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

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-88067-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88067-1

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 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0552A-CS-SP (680-88067-1), CV0552B-CS-SP (680-88067-2), CV0558A-CS-SP (680-88067-3), CV0558B-CS-SP (680-88067-4), FM0301A-CS (680-88067-5), HP0023A-CS (680-88067-6), HP0023B-CS (680-88067-7), HP0253A-CS (680-88067-8), HP0253B-CS (680-88067-9), HP0253B-CSD (680-88067-10), HP0255A-CS (680-88067-11), CV0281A-CS (680-88067-12), CV0281B-CS (680-88067-13), CV0339A-CS-SP (680-88067-14), CV0339B-CS-SP (680-88067-15), CV0388A-CS (680-88067-16), CV0388A-CSD (680-88067-17), CV0388B-CS (680-88067-18), CV0341A-CS-SP (680-88067-19) and CV0341B-CS-SP (680-88067-20) 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, 03/11/2013 and 03/13/2013 and analyzed on 03/12/2013, 03/13/2013 and 03/14/2013.

Samples CV0552B-CS-SP (680-88067-2)[4X], HP0023A-CS (680-88067-6)[20X], HP0023A-CS (680-88067-6)[4X], HP0023A-CS (680-88067-6)[50X], HP0023B-CS (680-88067-7)[4X], HP0253B-CS (680-88067-9)[4X], CV0339A-CS-SP (680-88067-14)[4X], CV0339B-CS-SP (680-88067-15)[4X], CV0388A-CS (680-88067-16)[4X], CV0388A-CSD (680-88067-17)[4X], CV0388B-CS (680-88067-18)[4X] and CV0341B-CS-SP (680-88067-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0552B-CS-SP (680-88067-2) in batch 660-135452.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0552A-CS-SP
Date Collected: 03/05/13 09:55
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-1
Matrix: Solid
Percent Solids: 67.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Acenaphthylene	9.7	J	59	7.4	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Anthracene	19		12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[a]anthracene	100		12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[a]pyrene	84	J	15	7.7	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[b]fluoranthene	170		18	9.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[g,h,i]perylene	64		30	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[k]fluoranthene	63		12	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Chrysene	140	J	13	6.7	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Dibenz(a,h)anthracene	20	J	30	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Fluoranthene	150		30	5.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Fluorene	8.7	J	30	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Indeno[1,2,3-cd]pyrene	59		30	11	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
1-Methylnaphthalene	69		59	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
2-Methylnaphthalene	100		59	11	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Naphthalene	97		59	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Phenanthrene	130		12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Pyrene	140		30	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*03/08/13 12:51*	*03/12/13 15:53*	*1*

Client Sample ID: CV0552B-CS-SP
Date Collected: 03/05/13 10:10
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-2
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	570	U	570	110	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Acenaphthylene	51	J F	230	29	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Anthracene	69	F	48	24	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[a]anthracene	180	F	46	22	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[a]pyrene	80	F	59	30	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[b]fluoranthene	200	F	70	35	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[g,h,i]perylene	120	F	110	25	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[k]fluoranthene	57	F	46	21	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Chrysene	380	F	51	26	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Dibenz(a,h)anthracene	57	J	110	23	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Fluoranthene	190	F	110	23	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Fluorene	64	J F	110	23	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Indeno[1,2,3-cd]pyrene	83	J F	110	41	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
1-Methylnaphthalene	920	F	230	25	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
2-Methylnaphthalene	1200	F	230	41	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Naphthalene	820	F	230	25	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Phenanthrene	570		46	22	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Pyrene	220	F	110	21	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*		*30 - 130*	*03/11/13 13:49*	*03/13/13 17:24*	*4*

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

Client Sample ID: CV0558A-CS-SP

Lab Sample ID: 680-88067-3

Date Collected: 03/05/13 08:53
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 63.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Acenaphthylene	**9.6**	**J**	63	7.9	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Anthracene	**47**		13	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[a]anthracene	**400**		13	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[a]pyrene	**430**	J	16	8.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[b]fluoranthene	**750**		19	9.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[g,h,i]perylene	**340**		32	7.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[k]fluoranthene	**290**		13	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Chrysene	**420**	J	14	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Dibenz(a,h)anthracene	**110**		32	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Fluoranthene	**570**		32	6.3	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Fluorene	**20**	**J**	32	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Indeno[1,2,3-cd]pyrene	**270**		32	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
1-Methylnaphthalene	**36**	**J**	63	7.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
2-Methylnaphthalene	**34**	**J**	63	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Naphthalene	**45**	**J**	63	7.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Phenanthrene	**290**		13	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Pyrene	**520**		32	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/08/13 12:51*	*03/12/13 16:11*	*1*

Client Sample ID: CV0558B-CS-SP

Lab Sample ID: 680-88067-4

Date Collected: 03/05/13 09:05
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 62.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Acenaphthylene	64	U	64	8.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Anthracene	14	U	14	6.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[a]anthracene	**28**		13	6.3	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[a]pyrene	**20**	J	17	8.4	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[b]fluoranthene	**32**		20	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[g,h,i]perylene	**17**	J	32	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[k]fluoranthene	**17**		13	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Chrysene	**24**	J	14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Fluoranthene	**26**	J	32	6.4	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Fluorene	32	U	32	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Indeno[1,2,3-cd]pyrene	**15**	J	32	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
1-Methylnaphthalene	**9.6**	J	64	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
2-Methylnaphthalene	**12**	J	64	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Naphthalene	**26**	J	64	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Phenanthrene	**25**		13	6.3	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Pyrene	**28**	J	32	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/08/13 12:51*	*03/12/13 16:30*	*1*

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: FM0301A-CS
Date Collected: 03/05/13 08:40
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-5
Matrix: Solid
Percent Solids: 75.5

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 12:51	03/12/13 17:07	1
Acenaphthylene	**11**	J	52	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Anthracene	**14**		11	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[a]anthracene	**82**		10	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[a]pyrene	**71**	J	14	6.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[b]fluoranthene	**130**		16	8.0	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[g,h,i]perylene	**60**		26	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[k]fluoranthene	**46**		10	4.7	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Chrysene	**100**	J	12	5.9	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Dibenz(a,h)anthracene	**18**	J	26	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Fluoranthene	**130**		26	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Fluorene	**14**	J	26	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Indeno[1,2,3-cd]pyrene	**39**		26	9.3	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
1-Methylnaphthalene	**41**	J	52	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
2-Methylnaphthalene	**51**	J	52	9.3	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Naphthalene	**58**		52	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Phenanthrene	**110**		10	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Pyrene	**120**		26	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*03/08/13 12:51*	*03/12/13 17:07*	*1*

Client Sample ID: HP0023A-CS
Date Collected: 03/05/13 10:50
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-6
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	**9800**		580	120	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Acenaphthylene	**270**		230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Dibenz(a,h)anthracene	**7600**		120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Fluorene	**8100**		120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
1-Methylnaphthalene	**1000**		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
2-Methylnaphthalene	**1300**		230	41	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Naphthalene	**2800**		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/08/13 12:51*	*03/12/13 17:25*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**16000**		240	120	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[a]anthracene	**42000**		230	110	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[a]pyrene	**33000**		300	150	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[b]fluoranthene	**52000**		350	180	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[g,h,i]perylene	**23000**		580	130	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[k]fluoranthene	**17000**		230	100	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Chrysene	**36000**		260	130	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Indeno[1,2,3-cd]pyrene	**21000**		580	200	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Phenanthrene	**59000**		230	110	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: HP0023A-CS
Date Collected: 03/05/13 10:50
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-6
Matrix: Solid
Percent Solids: 69.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	68000		580	110	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	110000		1400	290	ug/Kg	☼	03/08/13 12:51	03/14/13 14:10	50

Client Sample ID: HP0023B-CS
Date Collected: 03/05/13 11:00
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-7
Matrix: Solid
Percent Solids: 68.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	J	590	120	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Acenaphthylene	230	U	230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Anthracene	260		49	25	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[a]anthracene	620		47	23	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[a]pyrene	510	J	61	30	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[b]fluoranthene	830		71	36	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[g,h,i]perylene	410		120	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[k]fluoranthene	350		47	21	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Chrysene	610	J	53	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Dibenz(a,h)anthracene	90	J	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Fluoranthene	1200		120	23	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Fluorene	110	J	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Indeno[1,2,3-cd]pyrene	370		120	42	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
1-Methylnaphthalene	110	J	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
2-Methylnaphthalene	100	J	230	42	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Naphthalene	150	J	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Phenanthrene	930		47	23	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Pyrene	1000		120	22	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/08/13 12:51*	*03/12/13 17:43*	*4*

Client Sample ID: HP0253A-CS
Date Collected: 03/05/13 12:40
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-8
Matrix: Solid
Percent Solids: 71.7

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 12:51	03/12/13 18:01	1
Acenaphthylene	9.4	J	55	6.9	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Anthracene	22		12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[a]anthracene	40		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[a]pyrene	35	J	14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[b]fluoranthene	93		17	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[g,h,i]perylene	33		28	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[k]fluoranthene	32		11	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Chrysene	81	J	12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Dibenz(a,h)anthracene	16	J	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: HP0253A-CS
Date Collected: 03/05/13 12:40
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-8
Matrix: Solid
Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**58**		28	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Fluorene	28	U	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Indeno[1,2,3-cd]pyrene	**27**	J	28	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
1-Methylnaphthalene	**63**		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
2-Methylnaphthalene	**58**		55	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Naphthalene	**72**		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Phenanthrene	**78**		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Pyrene	**66**		28	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:01*	*1*

Client Sample ID: HP0253B-CS
Date Collected: 03/05/13 12:50
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-9
Matrix: Solid
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Acenaphthylene	**41**	J	210	26	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Anthracene	**45**		43	22	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[a]anthracene	**140**	J	41	20	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[a]pyrene	**120**	J	54	27	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[b]fluoranthene	**250**	J	63	31	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[g,h,i]perylene	**110**		100	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[k]fluoranthene	**86**	J	41	19	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Chrysene	**260**	J	46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Dibenz(a,h)anthracene	**44**	J	100	21	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Fluoranthene	**210**	J	100	21	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Fluorene	**33**	J	100	21	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Indeno[1,2,3-cd]pyrene	**100**		100	37	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
1-Methylnaphthalene	**1400**	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
2-Methylnaphthalene	**1900**		210	37	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Naphthalene	**1300**		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Phenanthrene	**640**		41	20	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Pyrene	**230**		100	19	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:20*	*4*

Client Sample ID: HP0253B-CSD
Date Collected: 03/05/13 12:50
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-10
Matrix: Solid
Percent Solids: 71.2

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 12:51	03/12/13 18:38	1
Acenaphthylene	55	U	55	6.9	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Anthracene	**7.5**	J	12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[a]anthracene	**36**	J	11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: HP0253B-CSD
Date Collected: 03/05/13 12:50
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-10
Matrix: Solid
Percent Solids: 71.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	23	J	14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[b]fluoranthene	46	J	17	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[g,h,i]perylene	19	J	28	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[k]fluoranthene	14	J	11	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Chrysene	40	J	12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Dibenz(a,h)anthracene	10	J	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Fluoranthene	39	J	28	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Fluorene	9.4	J	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Indeno[1,2,3-cd]pyrene	15	J	28	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
1-Methylnaphthalene	69	J	55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
2-Methylnaphthalene	75		55	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Naphthalene	72		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Phenanthrene	59		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Pyrene	40		28	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:38*	*1*

Client Sample ID: HP0255A-CS
Date Collected: 03/05/13 13:00
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-11
Matrix: Solid
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Acenaphthylene	9.3	J	51	6.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Anthracene	8.6	J	11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[a]anthracene	70		10	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[a]pyrene	80	J	13	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[b]fluoranthene	160		16	7.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[g,h,i]perylene	85		25	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[k]fluoranthene	58		10	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Chrysene	100	J	11	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Dibenz(a,h)anthracene	27		25	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Fluoranthene	95		25	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Fluorene	25	U	25	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Indeno[1,2,3-cd]pyrene	56		25	9.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
1-Methylnaphthalene	28	J	51	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
2-Methylnaphthalene	44	J	51	9.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Naphthalene	53		51	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Phenanthrene	73		10	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Pyrene	93		25	4.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:56*	*1*

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0281A-CS
Date Collected: 03/05/13 09:10
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-12
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Acenaphthylene	**31**	J	48	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Anthracene	**32**		10	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[a]anthracene	**220**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[a]pyrene	**250**	J	12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[b]fluoranthene	**450**		15	7.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[g,h,i]perylene	**200**		24	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[k]fluoranthene	**130**		9.5	4.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Chrysene	**290**	J	11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Dibenz(a,h)anthracene	**53**		24	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Fluoranthene	**360**		24	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Fluorene	**21**	J	24	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Indeno[1,2,3-cd]pyrene	**150**		24	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
1-Methylnaphthalene	**62**		48	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
2-Methylnaphthalene	**91**		48	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Naphthalene	**71**		48	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Phenanthrene	**240**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Pyrene	**370**		24	4.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*03/08/13 12:51*	*03/12/13 19:15*	*1*

Client Sample ID: CV0281B-CS
Date Collected: 03/05/13 09:20
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-13
Matrix: Solid
Percent Solids: 83.1

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 12:51	03/12/13 19:33	1
Acenaphthylene	**7.1**	J	47	5.9	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Anthracene	**12**		9.9	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[a]anthracene	**130**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[a]pyrene	**160**	J	12	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[b]fluoranthene	**240**		14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[g,h,i]perylene	**130**		24	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[k]fluoranthene	**98**		9.5	4.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Chrysene	**150**	J	11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Dibenz(a,h)anthracene	**35**		24	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Fluoranthene	**160**		24	4.7	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Fluorene	**7.3**	J	24	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Indeno[1,2,3-cd]pyrene	**97**		24	8.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
1-Methylnaphthalene	**47**		47	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
2-Methylnaphthalene	**52**		47	8.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Naphthalene	**53**		47	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Phenanthrene	**91**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Pyrene	**170**		24	4.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/08/13 12:51*	*03/12/13 19:33*	*1*

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0339A-CS-SP
Date Collected: 03/05/13 12:44
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-14
Matrix: Solid
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Anthracene	**46**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[a]anthracene	**400**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[a]pyrene	**390**	J	56	28	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[b]fluoranthene	**570**		66	33	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[g,h,i]perylene	**270**		110	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[k]fluoranthene	**230**		43	20	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Chrysene	**400**	J	49	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Dibenz(a,h)anthracene	**81**	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Fluoranthene	**530**		110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Fluorene	110	U	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Indeno[1,2,3-cd]pyrene	**230**		110	39	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
1-Methylnaphthalene	**62**	J	220	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
2-Methylnaphthalene	**96**	J	220	39	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Naphthalene	**85**	J	220	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Phenanthrene	**270**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Pyrene	**540**		110	20	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*03/08/13 12:51*	*03/12/13 19:51*	*4*

Client Sample ID: CV0339B-CS-SP
Date Collected: 03/05/13 12:54
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-15
Matrix: Solid
Percent Solids: 73.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Acenaphthylene	**130**	J	210	27	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Anthracene	**270**		45	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[a]anthracene	**5000**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[a]pyrene	**6000**	J	55	28	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[b]fluoranthene	**9000**		65	32	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[g,h,i]perylene	**3300**		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[k]fluoranthene	**3000**		43	19	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Chrysene	**5200**	J	48	24	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Dibenz(a,h)anthracene	**1000**		110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Fluoranthene	**5800**		110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Fluorene	**62**	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Indeno[1,2,3-cd]pyrene	**2900**		110	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
1-Methylnaphthalene	**88**	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
2-Methylnaphthalene	**120**	J	210	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Naphthalene	**170**	J	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Phenanthrene	**1200**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Pyrene	**6600**		110	20	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/08/13 12:51*	*03/12/13 20:10*	*4*

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0388A-CS
Date Collected: 03/05/13 10:10
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-16
Matrix: Solid
Percent Solids: 70.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	J	570	110	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Acenaphthylene	54	J	230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Anthracene	270	J	48	24	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[a]anthracene	780	J	46	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[a]pyrene	650	J	59	30	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[b]fluoranthene	1000		70	35	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[g,h,i]perylene	400		110	25	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[k]fluoranthene	410		46	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Chrysene	760	J	51	26	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Dibenz(a,h)anthracene	170		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Fluoranthene	1200	J	110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Fluorene	140		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Indeno[1,2,3-cd]pyrene	410	J	110	41	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
1-Methylnaphthalene	330		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
2-Methylnaphthalene	350		230	41	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Naphthalene	280		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Phenanthrene	1300	J	46	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Pyrene	1200	J	110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*03/08/13 12:51*	*03/12/13 20:28*	*4*

Client Sample ID: CV0388A-CSD
Date Collected: 03/05/13 10:10
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-17
Matrix: Solid
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Acenaphthylene	74	J	210	26	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Anthracene	84	J	44	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[a]anthracene	420	J	42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[a]pyrene	330	J	55	27	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[b]fluoranthene	690		64	32	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[g,h,i]perylene	270		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[k]fluoranthene	270		42	19	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Chrysene	550	J	48	24	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Dibenz(a,h)anthracene	100	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Fluoranthene	470	J	110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Fluorene	28	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Indeno[1,2,3-cd]pyrene	150	J	110	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
1-Methylnaphthalene	210		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
2-Methylnaphthalene	250		210	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Naphthalene	210		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Phenanthrene	350	J	42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Pyrene	560	J	110	20	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*03/08/13 12:51*	*03/12/13 20:46*	*4*

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0388B-CS
Date Collected: 03/05/13 10:20
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-18
Matrix: Solid
Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Acenaphthylene	**46**	J	230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Anthracene	**76**		49	24	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[a]anthracene	**350**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[a]pyrene	**300**	J	60	30	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[b]fluoranthene	**600**		71	35	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[g,h,i]perylene	**240**		120	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[k]fluoranthene	**200**		46	21	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Chrysene	**390**	J	52	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Dibenz(a,h)anthracene	**91**	J	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Fluoranthene	**500**		120	23	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Fluorene	**39**	J	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Indeno[1,2,3-cd]pyrene	**210**		120	41	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
1-Methylnaphthalene	**130**	J	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
2-Methylnaphthalene	**200**	J	230	41	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Naphthalene	**170**	J	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Phenanthrene	**390**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Pyrene	**570**		120	21	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*03/08/13 12:51*	*03/12/13 21:05*	*4*

Client Sample ID: CV0341A-CS-SP
Date Collected: 03/05/13 13:07
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-19
Matrix: Solid
Percent Solids: 67.5

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	29	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Acenaphthylene	**52**	J	58	7.3	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Anthracene	**31**		12	6.1	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[a]anthracene	**190**		12	5.7	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[a]pyrene	**220**	J	15	7.6	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[b]fluoranthene	**370**		18	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[g,h,i]perylene	**160**		29	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[k]fluoranthene	**150**		12	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Chrysene	**250**	J	13	6.6	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Dibenz(a,h)anthracene	**55**		29	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Fluoranthene	**250**		29	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Fluorene	**14**	J	29	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Indeno[1,2,3-cd]pyrene	**130**		29	10	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
1-Methylnaphthalene	**120**		58	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
2-Methylnaphthalene	**150**		58	10	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Naphthalene	**140**		58	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Phenanthrene	**150**		12	5.7	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Pyrene	**250**		29	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/13/13 12:00*	*03/14/13 15:15*	*1*

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

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0341B-CS-SP
Date Collected: 03/05/13 13:15
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-20
Matrix: Solid
Percent Solids: 65.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Acenaphthylene	**93**	J	240	30	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Anthracene	**69**		51	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[a]anthracene	**600**		48	24	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[a]pyrene	**830**	J	63	31	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[b]fluoranthene	**1500**		74	37	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[g,h,i]perylene	**1400**		120	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[k]fluoranthene	**610**		48	22	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Chrysene	**780**	J	54	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Dibenz(a,h)anthracene	**360**		120	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Fluoranthene	**970**		120	24	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Fluorene	**36**	J	120	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Indeno[1,2,3-cd]pyrene	**970**		120	43	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
1-Methylnaphthalene	**99**	J	240	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
2-Methylnaphthalene	**130**	J	240	43	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Naphthalene	**200**	J	240	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Phenanthrene	**520**		48	24	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Pyrene	**920**		120	22	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/13/13 12:00*	*03/14/13 15:33*	*4*

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-88067-1

SDG Number: 68088067-1

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
3/19/2013 9:01 AM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/19/2013

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

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NELAP ACCREDITED TNI LABORATORY

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88067-1

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 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0552A-CS-SP (680-88067-1), CV0552B-CS-SP (680-88067-2), CV0558A-CS-SP (680-88067-3), CV0558B-CS-SP (680-88067-4), FM0301A-CS (680-88067-5), HP0023A-CS (680-88067-6), HP0023B-CS (680-88067-7), HP0253A-CS (680-88067-8), HP0253B-CS (680-88067-9), HP0253B-CSD (680-88067-10), HP0255A-CS (680-88067-11), CV0281A-CS (680-88067-12), CV0281B-CS (680-88067-13), CV0339A-CS-SP (680-88067-14), CV0339B-CS-SP (680-88067-15), CV0388A-CS (680-88067-16), CV0388A-CSD (680-88067-17), CV0388B-CS (680-88067-18), CV0341A-CS-SP (680-88067-19) and CV0341B-CS-SP (680-88067-20) 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, 03/11/2013 and 03/13/2013 and analyzed on 03/12/2013, 03/13/2013 and 03/14/2013.

Samples CV0552B-CS-SP (680-88067-2)[4X], HP0023A-CS (680-88067-6)[20X], HP0023A-CS (680-88067-6)[4X], HP0023A-CS (680-88067-6)[50X], HP0023B-CS (680-88067-7)[4X], HP0253B-CS (680-88067-9)[4X], CV0339A-CS-SP (680-88067-14)[4X], CV0339B-CS-SP (680-88067-15)[4X], CV0388A-CS (680-88067-16)[4X], CV0388A-CSD (680-88067-17)[4X], CV0388B-CS (680-88067-18)[4X] and CV0341B-CS-SP (680-88067-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0552B-CS-SP (680-88067-2) in batch 660-135452.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88067-1	CV0552A-CS-SP	Solid	03/05/2013 0955	03/07/2013 0944
680-88067-2	CV0552B-CS-SP	Solid	03/05/2013 1010	03/07/2013 0944
680-88067-2MS	CV0552B-CS-SP	Solid	03/05/2013 1010	03/07/2013 0944
680-88067-2MSD	CV0552B-CS-SP	Solid	03/05/2013 1010	03/07/2013 0944
680-88067-3	CV0558A-CS-SP	Solid	03/05/2013 0853	03/07/2013 0944
680-88067-4	CV0558B-CS-SP	Solid	03/05/2013 0905	03/07/2013 0944
680-88067-5	FM0301A-CS	Solid	03/05/2013 0840	03/07/2013 0944
680-88067-6	HP0023A-CS	Solid	03/05/2013 1050	03/07/2013 0944
680-88067-7	HP0023B-CS	Solid	03/05/2013 1100	03/07/2013 0944
680-88067-8	HP0253A-CS	Solid	03/05/2013 1240	03/07/2013 0944
680-88067-9	HP0253B-CS	Solid	03/05/2013 1250	03/07/2013 0944
680-88067-10	HP0253B-CSD	Solid	03/05/2013 1250	03/07/2013 0944
680-88067-11	HP0255A-CS	Solid	03/05/2013 1300	03/07/2013 0944
680-88067-12	CV0281A-CS	Solid	03/05/2013 0910	03/07/2013 0944
680-88067-13	CV0281B-CS	Solid	03/05/2013 0920	03/07/2013 0944
680-88067-14	CV0339A-CS-SP	Solid	03/05/2013 1244	03/07/2013 0944
680-88067-15	CV0339B-CS-SP	Solid	03/05/2013 1254	03/07/2013 0944
680-88067-16	CV0388A-CS	Solid	03/05/2013 1010	03/07/2013 0944
680-88067-17	CV0388A-CSD	Solid	03/05/2013 1010	03/07/2013 0944
680-88067-18	CV0388B-CS	Solid	03/05/2013 1020	03/07/2013 0944
680-88067-19	CV0341A-CS-SP	Solid	03/05/2013 1307	03/07/2013 0944
680-88067-20	CV0341B-CS-SP	Solid	03/05/2013 1315	03/07/2013 0944

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

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: 680-88067-1
Sdg Number: 68088067-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
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-A-5-B MS	Matrix Spike	T	Solid	3546	
680-88065-A-5-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88067-1	CV0552A-CS-SP	T	Solid	3546	
680-88067-3	CV0558A-CS-SP	T	Solid	3546	
680-88067-4	CV0558B-CS-SP	T	Solid	3546	
680-88067-5	FM0301A-CS	T	Solid	3546	
680-88067-6	HP0023A-CS	T	Solid	3546	
680-88067-6DL	HP0023A-CS	T	Solid	3546	
680-88067-6DL2	HP0023A-CS	T	Solid	3546	
680-88067-7	HP0023B-CS	T	Solid	3546	
680-88067-8	HP0253A-CS	T	Solid	3546	
680-88067-9	HP0253B-CS	T	Solid	3546	
680-88067-10	HP0253B-CSD	T	Solid	3546	
680-88067-11	HP0255A-CS	T	Solid	3546	
680-88067-12	CV0281A-CS	T	Solid	3546	
680-88067-13	CV0281B-CS	T	Solid	3546	
680-88067-14	CV0339A-CS-SP	T	Solid	3546	
680-88067-15	CV0339B-CS-SP	T	Solid	3546	
680-88067-16	CV0388A-CS	T	Solid	3546	
680-88067-17	CV0388A-CSD	T	Solid	3546	
680-88067-18	CV0388B-CS	T	Solid	3546	
Prep Batch: 660-135265					
LCS 660-135265/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135265/1-A	Method Blank	T	Solid	3546	
680-88067-2	CV0552B-CS-SP	T	Solid	3546	
680-88067-2MS	Matrix Spike	T	Solid	3546	
680-88067-2MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

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-A-5-B MS	Matrix Spike	T	Solid	8270C LL	660-135207
680-88065-A-5-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135207
680-88067-1	CV0552A-CS-SP	T	Solid	8270C LL	660-135207
680-88067-3	CV0558A-CS-SP	T	Solid	8270C LL	660-135207
680-88067-4	CV0558B-CS-SP	T	Solid	8270C LL	660-135207
680-88067-5	FM0301A-CS	T	Solid	8270C LL	660-135207
680-88067-6	HP0023A-CS	T	Solid	8270C LL	660-135207
680-88067-7	HP0023B-CS	T	Solid	8270C LL	660-135207
680-88067-8	HP0253A-CS	T	Solid	8270C LL	660-135207
680-88067-9	HP0253B-CS	T	Solid	8270C LL	660-135207
680-88067-10	HP0253B-CSD	T	Solid	8270C LL	660-135207
680-88067-11	HP0255A-CS	T	Solid	8270C LL	660-135207
680-88067-12	CV0281A-CS	T	Solid	8270C LL	660-135207
680-88067-13	CV0281B-CS	T	Solid	8270C LL	660-135207
680-88067-14	CV0339A-CS-SP	T	Solid	8270C LL	660-135207
680-88067-15	CV0339B-CS-SP	T	Solid	8270C LL	660-135207
680-88067-16	CV0388A-CS	T	Solid	8270C LL	660-135207
680-88067-17	CV0388A-CSD	T	Solid	8270C LL	660-135207
680-88067-18	CV0388B-CS	T	Solid	8270C LL	660-135207
Prep Batch: 660-135343					
LCS 660-135343/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135343/1-A	Method Blank	T	Solid	3546	
680-88067-19	CV0341A-CS-SP	T	Solid	3546	
680-88067-20	CV0341B-CS-SP	T	Solid	3546	
680-88067-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88067-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-135407					
680-88067-6DL	HP0023A-CS	T	Solid	8270C LL	660-135207
680-88067-6DL2	HP0023A-CS	T	Solid	8270C LL	660-135207
Analysis Batch:660-135452					
LCS 660-135265/2-A	Lab Control Sample	T	Solid	8270C LL	660-135265
MB 660-135265/1-A	Method Blank	T	Solid	8270C LL	660-135265
680-88067-2	CV0552B-CS-SP	T	Solid	8270C LL	660-135265
680-88067-2MS	Matrix Spike	T	Solid	8270C LL	660-135265
680-88067-2MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135265

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135453					
LCS 660-135343/2-A	Lab Control Sample	T	Solid	8270C LL	660-135343
MB 660-135343/1-A	Method Blank	T	Solid	8270C LL	660-135343
680-88067-19	CV0341A-CS-SP	T	Solid	8270C LL	660-135343
680-88067-20	CV0341B-CS-SP	T	Solid	8270C LL	660-135343
680-88067-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135343
680-88067-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135343

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
Sdg Number: 68088067-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135227					
MB 660-135227/1	Method Blank	T	Solid	Moisture	
680-88067-1	CV0552A-CS-SP	T	Solid	Moisture	
680-88067-2	CV0552B-CS-SP	T	Solid	Moisture	
680-88067-2MS	Matrix Spike	T	Solid	Moisture	
680-88067-2MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88067-3	CV0558A-CS-SP	T	Solid	Moisture	
680-88067-4	CV0558B-CS-SP	T	Solid	Moisture	
680-88067-5	FM0301A-CS	T	Solid	Moisture	
680-88067-6	HP0023A-CS	T	Solid	Moisture	
680-88067-7	HP0023B-CS	T	Solid	Moisture	
680-88067-8	HP0253A-CS	T	Solid	Moisture	
680-88067-9	HP0253B-CS	T	Solid	Moisture	
680-88067-10	HP0253B-CSD	T	Solid	Moisture	
680-88067-11	HP0255A-CS	T	Solid	Moisture	
680-88067-12	CV0281A-CS	T	Solid	Moisture	
680-88067-13	CV0281B-CS	T	Solid	Moisture	
680-88067-14	CV0339A-CS-SP	T	Solid	Moisture	
680-88067-15	CV0339B-CS-SP	T	Solid	Moisture	
680-88067-16	CV0388A-CS	T	Solid	Moisture	
680-88067-19	CV0341A-CS-SP	T	Solid	Moisture	
680-88067-20	CV0341B-CS-SP	T	Solid	Moisture	
680-88067-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88067-A-21 MSD	Matrix Spike Duplicate	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	
680-88067-17	CV0388A-CSD	T	Solid	Moisture	
680-88067-18	CV0388B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/3 Client Sample ID:

Date Analyzed: 02/22/13 11:01 Lab File ID: 1AB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:53

Lab Sample ID: IC 660-134771/4 Client Sample ID:

Date Analyzed: 02/22/13 11:16 Lab File ID: 1AB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/5 Client Sample ID:

Date Analyzed: 02/22/13 11:31 Lab File ID: 1AB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/6 Client Sample ID:

Date Analyzed: 02/22/13 11:47 Lab File ID: 1AB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: ICIS 660-134771/7 Client Sample ID:

Date Analyzed: 02/22/13 12:02 Lab File ID: 1AB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/8 Client Sample ID:

Date Analyzed: 02/22/13 12:17 Lab File ID: 1AB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 12:55

Lab Sample ID: IC 660-134771/9 Client Sample ID:

Date Analyzed: 02/22/13 12:32 Lab File ID: 1AB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/22/13 12:56

Lab Sample ID: ICV 660-134771/10 Client Sample ID:

Date Analyzed: 02/22/13 12:48 Lab File ID: 1AB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.55	Baseline Event	cantins	02/22/13 13:04
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 13:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Analysis Batch Number: 135452

Lab Sample ID: CCVIS 660-135452/4 Client Sample ID:

Date Analyzed: 03/13/13 10:56 Lab File ID: 1AC13004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/13/13 11:09

Lab Sample ID: LCS 660-135265/2-A Client Sample ID:

Date Analyzed: 03/13/13 11:42 Lab File ID: 1AC13007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/14/13 12:49

Lab Sample ID: 680-88067-2 Client Sample ID: CV0552B-CS-SP

Date Analyzed: 03/13/13 17:24 Lab File ID: 1AC13027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.26	Split Peak	cantins	03/15/13 13:04
Chrysene	6.28	Baseline Event	cantins	03/15/13 13:04
Benzo[b]fluoranthene	7.07	Split Peak	cantins	03/15/13 13:03
Benzo[k]fluoranthene	7.09	Baseline Event	cantins	03/15/13 13:03
Indeno[1,2,3-cd]pyrene	8.06	Split Peak	cantins	03/15/13 13:02

Lab Sample ID: 680-88067-2 MS Client Sample ID: CV0552B-CS-SP MS

Date Analyzed: 03/13/13 17:40 Lab File ID: 1AC13028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.07	Split Peak	cantins	03/15/13 13:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Analysis Batch Number: 135452

Lab Sample ID: 680-88067-2 MSD Client Sample ID: CV0552B-CS-SP MSD

Date Analyzed: 03/13/13 17:55 Lab File ID: 1AC13029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.07	Split Peak	cantins	03/15/13 13:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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-A-5-B MS Client Sample ID:

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

Lab Sample ID: 680-88065-A-5-C MSD Client Sample ID:

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: 680-88067-1 Client Sample ID: CV0552A-CS-SP

Date Analyzed: 03/12/13 15:53 Lab File ID: 1CC12013.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 16:29
Benzo[k]fluoranthene	8.60	Baseline Event	cantins	03/13/13 16:29
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:29

Lab Sample ID: 680-88067-3 Client Sample ID: CV0558A-CS-SP

Date Analyzed: 03/12/13 16:11 Lab File ID: 1CC12014.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 16:30
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:30
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:31

Lab Sample ID: 680-88067-4 Client Sample ID: CV0558B-CS-SP

Date Analyzed: 03/12/13 16:30 Lab File ID: 1CC12015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	7.74	Baseline Event	cantins	03/13/13 16:32
Benzo[b]fluoranthene	8.60	Baseline Event	cantins	03/13/13 16:32
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:32
Benzo[g,h,i]perylene	10.47	Baseline Event	cantins	03/13/13 16:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: 680-88067-5 Client Sample ID: FM0301A-CS

Date Analyzed: 03/12/13 17:07 Lab File ID: 1CC12017.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 16:33
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:34
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:34

Lab Sample ID: 680-88067-7 Client Sample ID: HP0023B-CS

Date Analyzed: 03/12/13 17:43 Lab File ID: 1CC12019.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 16:38
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:38
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:38
Benzo[g,h,i]perylene	10.48	Baseline Event	cantins	03/13/13 16:38

Lab Sample ID: 680-88067-8 Client Sample ID: HP0253A-CS

Date Analyzed: 03/12/13 18:01 Lab File ID: 1CC12020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.60	Analyte Misidentified by the Data System	cantins	03/13/13 16:40
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:41
Dibenz(a,h)anthracene	10.13	Baseline Event	cantins	03/13/13 16:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: 680-88067-9 Client Sample ID: HP0253B-CS

Date Analyzed: 03/12/13 18:20 Lab File ID: 1CC12021.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 16:43
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:43
Indeno[1,2,3-cd]pyrene	10.12	Baseline Event	cantins	03/13/13 16:44

Lab Sample ID: 680-88067-10 Client Sample ID: HP0253B-CSD

Date Analyzed: 03/12/13 18:38 Lab File ID: 1CC12022.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 16:45
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:45
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:46

Lab Sample ID: 680-88067-11 Client Sample ID: HP0255A-CS

Date Analyzed: 03/12/13 18:56 Lab File ID: 1CC12023.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 16:46
Benzo[k]fluoranthene	8.60	Baseline Event	cantins	03/13/13 16:46
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 16:47

Lab Sample ID: 680-88067-12 Client Sample ID: CV0281A-CS

Date Analyzed: 03/12/13 19:15 Lab File ID: 1CC12024.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 16:47
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:48
Indeno[1,2,3-cd]pyrene	10.13	Split Peak	cantins	03/13/13 16:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: 680-88067-13 Client Sample ID: CV0281B-CS

Date Analyzed: 03/12/13 19:33 Lab File ID: 1CC12025.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 16:49
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 16:49
Indeno[1,2,3-cd]pyrene	10.13	Split Peak	cantins	03/13/13 16:49

Lab Sample ID: 680-88067-14 Client Sample ID: CV0339A-CS-SP

Date Analyzed: 03/12/13 19:51 Lab File ID: 1CC12026.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 17:12

Lab Sample ID: 680-88067-15 Client Sample ID: CV0339B-CS-SP

Date Analyzed: 03/12/13 20:10 Lab File ID: 1CC12027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.61	Analyte Misidentified by the Data System	cantins	03/13/13 17:13
Indeno[1,2,3-cd]pyrene	10.13	Split Peak	cantins	03/13/13 17:13

Lab Sample ID: 680-88067-16 Client Sample ID: CV0388A-CS

Date Analyzed: 03/12/13 20:28 Lab File ID: 1CC12028.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 17:14
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 17:14
Indeno[1,2,3-cd]pyrene	10.13	Split Peak	cantins	03/13/13 17:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135316

Lab Sample ID: 680-88067-17 Client Sample ID: CV0388A-CSD

Date Analyzed: 03/12/13 20:46 Lab File ID: 1CC12029.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 17:15
Benzo[k]fluoranthene	8.60	Baseline Event	cantins	03/13/13 17:15
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 17:15

Lab Sample ID: 680-88067-18 Client Sample ID: CV0388B-CS

Date Analyzed: 03/12/13 21:05 Lab File ID: 1CC12030.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 17:16
Benzo[k]fluoranthene	8.61	Baseline Event	cantins	03/13/13 17:16
Indeno[1,2,3-cd]pyrene	10.12	Split Peak	cantins	03/13/13 17:17
Dibenz(a,h)anthracene	10.14	Baseline Event	cantins	03/13/13 17:16
Benzo[g,h,i]perylene	10.48	Baseline Event	cantins	03/13/13 17:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135453

Lab Sample ID: CCVIS 660-135453/3 Client Sample ID:

Date Analyzed: 03/14/13 11:35 Lab File ID: 1CC14003.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 11:51

Lab Sample ID: LCS 660-135343/2-A Client Sample ID:

Date Analyzed: 03/14/13 12:30 Lab File ID: 1CC14006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/14/13 12:45

Lab Sample ID: 680-88067-19 Client Sample ID: CV0341A-CS-SP

Date Analyzed: 03/14/13 15:15 Lab File ID: 1CC14015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 10:54
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 10:54
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 10:54

Lab Sample ID: 680-88067-20 Client Sample ID: CV0341B-CS-SP

Date Analyzed: 03/14/13 15:33 Lab File ID: 1CC14016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/18/13 10:55
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/18/13 10:55
Indeno[1,2,3-cd]pyrene	10.10	Split Peak	cantins	03/18/13 10:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Analysis Batch Number: 135453

Lab Sample ID: 680-88067-A-21-B MS Client Sample ID:

Date Analyzed: 03/14/13 16:10 Lab File ID: 1CC14018.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	03/18/13 10:57

Lab Sample ID: 680-88067-A-21-C MSD Client Sample ID:

Date Analyzed: 03/14/13 16:29 Lab File ID: 1CC14019.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	03/18/13 10:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMD5973 Analysis Batch Number: 135407

Lab Sample ID: CCVIS 660-135407/3 Client Sample ID:

Date Analyzed: 03/14/13 10:46 Lab File ID: 1DC14003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.92	Split Peak	cantins	03/14/13 11:07

Lab Sample ID: 680-88067-6 DL Client Sample ID: HP0023A-CS DL

Date Analyzed: 03/14/13 12:40 Lab File ID: 1DC14008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.92	Split Peak	cantins	03/14/13 13:57

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.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0552A-CS-SP	680-88067-1	58
CV0552B-CS-SP	680-88067-2	43
CV0558A-CS-SP	680-88067-3	61
CV0558B-CS-SP	680-88067-4	65
FM0301A-CS	680-88067-5	67
HP0023A-CS	680-88067-6	63
HP0023B-CS	680-88067-7	76
HP0253A-CS	680-88067-8	63
HP0253B-CS	680-88067-9	74
HP0253B-CSD	680-88067-10	57
HP0255A-CS	680-88067-11	69
CV0281A-CS	680-88067-12	72
CV0281B-CS	680-88067-13	71
CV0339A-CS-SP	680-88067-14	85
CV0339B-CS-SP	680-88067-15	64
CV0388A-CS	680-88067-16	80
CV0388A-CSD	680-88067-17	77
CV0388B-CS	680-88067-18	72
CV0341A-CS-SP	680-88067-19	66
CV0341B-CS-SP	680-88067-20	65
	MB 660-135207/1-A	82
	MB 660-135265/1-A	51
	MB 660-135343/1-A	79
	LCS 660-135207/2-A	77
	LCS 660-135265/2-A	55
	LCS 660-135343/2-A	79
	680-88065-A-5-B MS	82
	680-88067-A-21-B MS	68
CV0552B-CS-SP MS	680-88067-2 MS	46
	680-88065-A-5-C 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.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	680-88067-A-21-C MSD	68
CV0552B-CS-SP MSD	680-88067-2 MSD	52

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low Lab File ID: 1AC13007.D

Lab ID: LCS 660-135265/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	648	349	54	39-130	
Acenaphthylene	648	355	55	38-130	
Anthracene	648	409	63	37-130	
Benzo[a]anthracene	648	470	73	40-130	
Benzo[a]pyrene	648	404	62	49-130	
Benzo[b]fluoranthene	648	403	62	37-130	
Benzo[g,h,i]perylene	648	423	65	32-130	
Benzo[k]fluoranthene	648	461	71	32-130	
Chrysene	648	425	66	41-130	
Dibenz(a,h)anthracene	648	443	68	27-130	
Fluoranthene	648	477	74	40-130	
Fluorene	648	336	52	40-130	
Indeno[1,2,3-cd]pyrene	648	437	67	30-130	
1-Methylnaphthalene	648	433	67	31-130	
2-Methylnaphthalene	648	408	63	33-130	
Naphthalene	648	400	62	36-130	
Phenanthrene	648	403	62	42-130	
Pyrene	648	406	63	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.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low Lab File ID: 1CC14006.D

Lab ID: LCS 660-135343/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	484	74	39-130	
Acenaphthylene	656	504	77	38-130	
Anthracene	656	524	80	37-130	
Benzo[a]anthracene	656	524	80	40-130	
Benzo[a]pyrene	656	477	73	49-130	
Benzo[b]fluoranthene	656	541	82	37-130	
Benzo[g,h,i]perylene	656	487	74	32-130	
Benzo[k]fluoranthene	656	514	78	32-130	
Chrysene	656	502	76	41-130	
Dibenz(a,h)anthracene	656	513	78	27-130	
Fluoranthene	656	532	81	40-130	
Fluorene	656	524	80	40-130	
Indeno[1,2,3-cd]pyrene	656	468	71	30-130	
1-Methylnaphthalene	656	542	83	31-130	
2-Methylnaphthalene	656	532	81	33-130	
Naphthalene	656	510	78	36-130	
Phenanthrene	656	499	76	42-130	
Pyrene	656	526	80	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.: 680-88067-1

SDG No.: 68088067-1

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

Lab ID: 680-88065-A-5-B MS Client ID:

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 RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low Lab File ID: 1CC14018.D

Lab ID: 680-88067-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	820	120 U	518	63	39-130	
Acenaphthylene	820	14 J	507	60	38-130	
Anthracene	820	55	645	72	37-130	
Benzo[a]anthracene	820	320	952	77	40-130	
Benzo[a]pyrene	820	300	884	71	49-130	
Benzo[b]fluoranthene	820	530	1170	78	37-130	
Benzo[g,h,i]perylene	820	230	776	67	32-130	
Benzo[k]fluoranthene	820	200	844	78	32-130	
Chrysene	820	360	913	67	41-130	
Dibenz(a,h)anthracene	820	69	651	71	27-130	
Fluoranthene	820	570	1170	73	40-130	
Fluorene	820	23 J	604	71	40-130	
Indeno[1,2,3-cd]pyrene	820	190	741	67	30-130	
1-Methylnaphthalene	820	69	569	61	31-130	
2-Methylnaphthalene	820	83	531	55	33-130	
Naphthalene	820	54	452	48	36-130	
Phenanthrene	820	310	882	70	42-130	
Pyrene	820	490	1150	81	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.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low Lab File ID: 1AC13028.D

Lab ID: 680-88067-2 MS Client ID: CV0552B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	949	570 U	366 J	39	39-130	
Acenaphthylene	949	51 J	256	22	38-130	F
Anthracene	949	69	380	33	37-130	F
Benzo[a]anthracene	949	180	609	45	40-130	
Benzo[a]pyrene	949	80	202	13	49-130	F
Benzo[b]fluoranthene	949	200	382	20	37-130	F
Benzo[g,h,i]perylene	949	120	308	19	32-130	F
Benzo[k]fluoranthene	949	57	289	24	32-130	F
Chrysene	949	380	623	25	41-130	F
Dibenz(a,h)anthracene	949	57 J	333	29	27-130	
Fluoranthene	949	190	522	35	40-130	F
Fluorene	949	64 J	499	46	40-130	
Indeno[1,2,3-cd]pyrene	949	83 J	322	25	30-130	F
1-Methylnaphthalene	949	920	1450	56	31-130	
2-Methylnaphthalene	949	1200	1250	6	33-130	F
Naphthalene	949	820	945	13	36-130	F
Phenanthrene	949	570	1060	51	42-130	
Pyrene	949	220	597	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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

Lab ID: 680-88065-A-5-C MSD Client ID:

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 III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low Lab File ID: 1CC14019.D

Lab ID: 680-88067-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	820	553	67	7	40	39-130	
Acenaphthylene	820	591	70	15	40	38-130	
Anthracene	820	645	72	0	40	37-130	
Benzo[a]anthracene	820	998	82	5	40	40-130	
Benzo[a]pyrene	820	918	75	4	40	49-130	
Benzo[b]fluoranthene	820	1230	86	5	40	37-130	
Benzo[g,h,i]perylene	820	790	69	2	40	32-130	
Benzo[k]fluoranthene	820	853	79	1	40	32-130	
Chrysene	820	919	68	1	40	41-130	
Dibenz(a,h)anthracene	820	648	71	1	40	27-130	
Fluoranthene	820	1320	91	12	40	40-130	
Fluorene	820	580	68	4	40	40-130	
Indeno[1,2,3-cd]pyrene	820	780	72	5	40	30-130	
1-Methylnaphthalene	820	627	68	10	40	31-130	
2-Methylnaphthalene	820	614	65	15	40	33-130	
Naphthalene	820	552	61	20	40	36-130	
Phenanthrene	820	929	76	5	40	42-130	
Pyrene	820	1250	94	8	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.: 680-88067-1

SDG No.: 68088067-1

Matrix: Solid Level: Low Lab File ID: 1AC13029.D

Lab ID: 680-88067-2 MSD Client ID: CV0552B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	952	461 J	48	23	40	39-130	
Acenaphthylene	952	256	22	0	40	38-130	F
Anthracene	952	408	36	7	40	37-130	F
Benzo[a]anthracene	952	547	38	11	40	40-130	F
Benzo[a]pyrene	952	239	17	17	40	49-130	F
Benzo[b]fluoranthene	952	464	28	19	40	37-130	F
Benzo[g,h,i]perylene	952	320	21	4	40	32-130	F
Benzo[k]fluoranthene	952	248	20	15	40	32-130	F
Chrysene	952	648	28	4	40	41-130	F
Dibenz(a,h)anthracene	952	351	31	5	40	27-130	
Fluoranthene	952	619	45	17	40	40-130	
Fluorene	952	415	37	18	40	40-130	F
Indeno[1,2,3-cd]pyrene	952	315	24	2	40	30-130	F
1-Methylnaphthalene	952	985	7	38	40	31-130	F
2-Methylnaphthalene	952	963	-24	26	40	33-130	F
Naphthalene	952	765	-6	21	40	36-130	F
Phenanthrene	952	1000	45	6	40	42-130	
Pyrene	952	660	47	10	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.: 680-88067-1

SDG No.: 68088067-1

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
	680-88065-A-5-B MS	1CC12008.D	03/12/2013 14:21
	680-88065-A-5-C MSD	1CC12009.D	03/12/2013 14:40
CV0552A-CS-SP	680-88067-1	1CC12013.D	03/12/2013 15:53
CV0558A-CS-SP	680-88067-3	1CC12014.D	03/12/2013 16:11
CV0558B-CS-SP	680-88067-4	1CC12015.D	03/12/2013 16:30
FM0301A-CS	680-88067-5	1CC12017.D	03/12/2013 17:07
HP0023A-CS	680-88067-6	1CC12018.D	03/12/2013 17:25
HP0023B-CS	680-88067-7	1CC12019.D	03/12/2013 17:43
HP0253A-CS	680-88067-8	1CC12020.D	03/12/2013 18:01
HP0253B-CS	680-88067-9	1CC12021.D	03/12/2013 18:20
HP0253B-CSD	680-88067-10	1CC12022.D	03/12/2013 18:38
HP0255A-CS	680-88067-11	1CC12023.D	03/12/2013 18:56
CV0281A-CS	680-88067-12	1CC12024.D	03/12/2013 19:15
CV0281B-CS	680-88067-13	1CC12025.D	03/12/2013 19:33
CV0339A-CS-SP	680-88067-14	1CC12026.D	03/12/2013 19:51
CV0339B-CS-SP	680-88067-15	1CC12027.D	03/12/2013 20:10
CV0388A-CS	680-88067-16	1CC12028.D	03/12/2013 20:28
CV0388A-CSD	680-88067-17	1CC12029.D	03/12/2013 20:46
CV0388B-CS	680-88067-18	1CC12030.D	03/12/2013 21:05
HP0023A-CS DL	680-88067-6 DL	1DC14008.D	03/14/2013 12:40
HP0023A-CS DL2	680-88067-6 DL2	1DC14012.D	03/14/2013 14:10

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Lab File ID: 1AC13006.D Lab Sample ID: MB 660-135265/1-A

Matrix: Solid Date Extracted: 03/11/2013 13:49

Instrument ID: BSMA5973 Date Analyzed: 03/13/2013 11:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135265/2-A	1AC13007.D	03/13/2013 11:42
CV0552B-CS-SP	680-88067-2	1AC13027.D	03/13/2013 17:24
CV0552B-CS-SP MS	680-88067-2 MS	1AC13028.D	03/13/2013 17:40
CV0552B-CS-SP MSD	680-88067-2 MSD	1AC13029.D	03/13/2013 17:55

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Lab File ID: 1CC14005.D Lab Sample ID: MB 660-135343/1-A

Matrix: Solid Date Extracted: 03/13/2013 12:00

Instrument ID: BSMC5973 Date Analyzed: 03/14/2013 12:12

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135343/2-A	1CC14006.D	03/14/2013 12:30
CV0341A-CS-SP	680-88067-19	1CC14015.D	03/14/2013 15:15
CV0341B-CS-SP	680-88067-20	1CC14016.D	03/14/2013 15:33
	680-88067-A-21-B MS	1CC14018.D	03/14/2013 16:10
	680-88067-A-21-C MSD	1CC14019.D	03/14/2013 16:29

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Lab File ID: 1AB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:42

Analysis Batch No.: 134771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	63.5	
68	Less than 2.0 % of mass 69	0.9	(1.7)1
69	Mass 69 relative abundance	53.6	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	44.3	
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	5.7	
275	10.0 - 60.0 % of mass 198	25.0	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	8.5	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	10.7	(15.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134771/3	1AB22003.D	02/22/2013	11:01
	IC 660-134771/4	1AB22004.D	02/22/2013	11:16
	IC 660-134771/5	1AB22005.D	02/22/2013	11:31
	IC 660-134771/6	1AB22006.D	02/22/2013	11:47
	ICIS 660-134771/7	1AB22007.D	02/22/2013	12:02
	IC 660-134771/8	1AB22008.D	02/22/2013	12:17
	IC 660-134771/9	1AB22009.D	02/22/2013	12:32
	ICV 660-134771/10	1AB22010.D	02/22/2013	12:48

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Lab File ID: 1AC13003.D DFTPP Injection Date: 03/13/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:43

Analysis Batch No.: 135452

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	76.2	
68	Less than 2.0 % of mass 69	1.1	(1.9)1
69	Mass 69 relative abundance	59.0	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	53.5	
197	Less than 2.0 % of mass 198	1.3	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	28.6	
365	Greater than 1.0 % of mass 198	4.6	
441	Present but less than mass 443	10.1	
442	Greater than 50.0 % of mass 198	66.8	
443	15.0 - 24.0 % of mass 442	10.3	(15.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135452/4	1AC13004.D	03/13/2013	10:56
	MB 660-135265/1-A	1AC13006.D	03/13/2013	11:27
	LCS 660-135265/2-A	1AC13007.D	03/13/2013	11:42
CV0552B-CS-SP	680-88067-2	1AC13027.D	03/13/2013	17:24
CV0552B-CS-SP MS	680-88067-2 MS	1AC13028.D	03/13/2013	17:40
CV0552B-CS-SP MSD	680-88067-2 MSD	1AC13029.D	03/13/2013	17:55

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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
	680-88065-A-5-B MS	1CC12008.D	03/12/2013	14:21
	680-88065-A-5-C MSD	1CC12009.D	03/12/2013	14:40
CV0552A-CS-SP	680-88067-1	1CC12013.D	03/12/2013	15:53
CV0558A-CS-SP	680-88067-3	1CC12014.D	03/12/2013	16:11
CV0558B-CS-SP	680-88067-4	1CC12015.D	03/12/2013	16:30
FM0301A-CS	680-88067-5	1CC12017.D	03/12/2013	17:07
HP0023A-CS	680-88067-6	1CC12018.D	03/12/2013	17:25
HP0023B-CS	680-88067-7	1CC12019.D	03/12/2013	17:43
HP0253A-CS	680-88067-8	1CC12020.D	03/12/2013	18:01
HP0253B-CS	680-88067-9	1CC12021.D	03/12/2013	18:20
HP0253B-CSD	680-88067-10	1CC12022.D	03/12/2013	18:38
HP0255A-CS	680-88067-11	1CC12023.D	03/12/2013	18:56
CV0281A-CS	680-88067-12	1CC12024.D	03/12/2013	19:15
CV0281B-CS	680-88067-13	1CC12025.D	03/12/2013	19:33
CV0339A-CS-SP	680-88067-14	1CC12026.D	03/12/2013	19:51
CV0339B-CS-SP	680-88067-15	1CC12027.D	03/12/2013	20:10
CV0388A-CS	680-88067-16	1CC12028.D	03/12/2013	20:28
CV0388A-CSD	680-88067-17	1CC12029.D	03/12/2013	20:46
CV0388B-CS	680-88067-18	1CC12030.D	03/12/2013	21:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Lab File ID: 1CC14002.D DFTPP Injection Date: 03/14/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:18

Analysis Batch No.: 135453

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	38.5	
68	Less than 2.0 % of mass 69	0.9	(1.8)1
69	Mass 69 relative abundance	49.8	
70	Less than 2.0 % of mass 69	0.3	(0.5)1
127	10.0 - 80.0 % of mass 198	50.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.7	
275	10.0 - 60.0 % of mass 198	20.5	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	63.2	
443	15.0 - 24.0 % of mass 442	12.9	(20.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135453/3	1CC14003.D	03/14/2013	11:35
	MB 660-135343/1-A	1CC14005.D	03/14/2013	12:12
	LCS 660-135343/2-A	1CC14006.D	03/14/2013	12:30
CV0341A-CS-SP	680-88067-19	1CC14015.D	03/14/2013	15:15
CV0341B-CS-SP	680-88067-20	1CC14016.D	03/14/2013	15:33
	680-88067-A-21-B MS	1CC14018.D	03/14/2013	16:10
	680-88067-A-21-C MSD	1CC14019.D	03/14/2013	16:29

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

Lab File ID: 1DC14002.D DFTPP Injection Date: 03/14/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:30

Analysis Batch No.: 135407

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	41.5	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	50.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.0	
275	10.0 - 60.0 % of mass 198	27.2	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	13.1	
442	Greater than 50.0 % of mass 198	82.0	
443	15.0 - 24.0 % of mass 442	15.5	(18.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135407/3	1DC14003.D	03/14/2013	10:46
HP0023A-CS DL	680-88067-6 DL	1DC14008.D	03/14/2013	12:40
HP0023A-CS DL2	680-88067-6 DL2	1DC14012.D	03/14/2013	14:10

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		991704	2.40	622858	3.42	968921	4.35
UPPER LIMIT		1983408	2.90	1245716	3.92	1937842	4.85
LOWER LIMIT		495852	1.90	311429	2.92	484461	3.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1470215	2.40	948405	3.42	1446139	4.36

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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		842371	6.37	860097	7.46		
UPPER LIMIT		1684742	6.87	1720194	7.96		
LOWER LIMIT		421186	5.87	430049	6.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1373239	6.37	1363331	7.46		

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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: CCVIS 660-135452/4 Date Analyzed: 03/13/2013 10:56

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AC13004.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		532722	2.31	363717	3.33	535450	4.25
UPPER LIMIT		1065444	2.81	727434	3.83	1070900	4.75
LOWER LIMIT		266361	1.81	181859	2.83	267725	3.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135265/1-A		698730	2.31	558759	3.33	797352	4.25
LCS 660-135265/2-A		637144	2.31	471613	3.33	623032	4.25
680-88067-2	CV0552B-CS-SP	559045	2.32	400892	3.34	591085	4.26
680-88067-2 MS	CV0552B-CS-SP MS	553023	2.32	415600	3.34	571475	4.26
680-88067-2 MSD	CV0552B-CS-SP MSD	556639	2.32	398229	3.34	593449	4.27

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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: CCVIS 660-135452/4 Date Analyzed: 03/13/2013 10:56

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AC13004.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		507118	6.24	494823	7.33		
UPPER LIMIT		1014236	6.74	989646	7.83		
LOWER LIMIT		253559	5.74	247412	6.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135265/1-A		685959	6.25	723497	7.33		
LCS 660-135265/2-A		621253	6.24	644607	7.33		
680-88067-2	CV0552B-CS-SP	457554	6.27	642696	7.36		
680-88067-2 MS	CV0552B-CS-SP MS	420133	6.27	634061	7.37		
680-88067-2 MSD	CV0552B-CS-SP MSD	478805	6.27	657230	7.37		

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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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-A-5-B MS		1323773	3.76	1055864	4.85	1920645	5.80
680-88065-A-5-C MSD		1303928	3.76	1030865	4.85	1926894	5.80
680-88067-1	CV0552A-CS-SP	1324484	3.76	1065324	4.85	1946554	5.80
680-88067-3	CV0558A-CS-SP	1316247	3.76	1057699	4.85	1912405	5.80
680-88067-4	CV0558B-CS-SP	1306696	3.76	1051842	4.85	1964145	5.80
680-88067-5	FM0301A-CS	1336451	3.76	1056956	4.85	1969579	5.80
680-88067-6	HP0023A-CS	1330849	3.76	1029320	4.85	1899034	5.80
680-88067-7	HP0023B-CS	1441199	3.76	1155163	4.85	2106920	5.80
680-88067-8	HP0253A-CS	1418967	3.76	1116677	4.85	2024349	5.80
680-88067-9	HP0253B-CS	1303979	3.76	1018616	4.85	1905090	5.80
680-88067-10	HP0253B-CSD	1369631	3.76	1069926	4.85	1956229	5.80
680-88067-11	HP0255A-CS	1407757	3.76	1102862	4.85	2012942	5.80
680-88067-12	CV0281A-CS	1348024	3.76	1073825	4.85	1929875	5.80
680-88067-13	CV0281B-CS	1371337	3.76	1098460	4.85	2025365	5.80
680-88067-14	CV0339A-CS-SP	1340103	3.76	1029419	4.85	1885358	5.80
680-88067-15	CV0339B-CS-SP	1435352	3.76	1132801	4.85	2063874	5.80
680-88067-16	CV0388A-CS	1366318	3.76	1048370	4.85	1886866	5.80
680-88067-17	CV0388A-CSD	1315275	3.76	1022026	4.85	1882129	5.80
680-88067-18	CV0388B-CS	1426215	3.76	1102052	4.85	1995612	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.: 680-88067-1

SDG No.: 68088067-1

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-A-5-B MS		2185713	7.75	2147337	8.95		
680-88065-A-5-C MSD		2200494	7.75	2117979	8.95		
680-88067-1	CV0552A-CS-SP	2057494	7.75	1988358	8.95		
680-88067-3	CV0558A-CS-SP	2066833	7.75	1975118	8.95		
680-88067-4	CV0558B-CS-SP	2151821	7.75	2037508	8.95		
680-88067-5	FM0301A-CS	2110484	7.75	1999697	8.95		
680-88067-6	HP0023A-CS	2623084	7.76	2126345	8.95		
680-88067-7	HP0023B-CS	2265785	7.75	2073287	8.95		
680-88067-8	HP0253A-CS	2191909	7.75	2070752	8.95		
680-88067-9	HP0253B-CS	2113747	7.75	2000536	8.95		
680-88067-10	HP0253B-CSD	2150265	7.75	1984232	8.95		
680-88067-11	HP0255A-CS	2134172	7.75	1975034	8.95		
680-88067-12	CV0281A-CS	2053506	7.75	1902828	8.95		
680-88067-13	CV0281B-CS	2093942	7.75	1947396	8.95		
680-88067-14	CV0339A-CS-SP	1986125	7.75	1847884	8.95		
680-88067-15	CV0339B-CS-SP	2170909	7.75	2013601	8.95		
680-88067-16	CV0388A-CS	1974042	7.75	1862851	8.95		
680-88067-17	CV0388A-CSD	1956067	7.75	1835666	8.95		
680-88067-18	CV0388B-CS	2068719	7.75	1922336	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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: CCVIS 660-135453/3 Date Analyzed: 03/14/2013 11:35

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

Lab File ID (Standard): 1CC14003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		916985	3.75	747114	4.84	1456984	5.79
UPPER LIMIT		1833970	4.25	1494228	5.34	2913968	6.29
LOWER LIMIT		458493	3.25	373557	4.34	728492	5.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135343/1-A		884986	3.75	692456	4.84	1356649	5.79
LCS 660-135343/2-A		917299	3.75	727709	4.84	1386401	5.79
680-88067-19	CV0341A-CS-SP	1003997	3.75	803564	4.84	1491810	5.79
680-88067-20	CV0341B-CS-SP	1068115	3.75	872556	4.84	1615767	5.79
680-88067-A-21-B MS		1012737	3.75	839896	4.84	1549703	5.79
680-88067-A-21-C MSD		982850	3.76	793699	4.84	1510668	5.79

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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: CCVIS 660-135453/3 Date Analyzed: 03/14/2013 11:35

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

Lab File ID (Standard): 1CC14003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1842127	7.73	1864332	8.93		
UPPER LIMIT		3684254	8.23	3728664	9.43		
LOWER LIMIT		921064	7.23	932166	8.43		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135343/1-A		1693605	7.73	1765518	8.92		
LCS 660-135343/2-A		1719095	7.73	1717036	8.92		
680-88067-19	CV0341A-CS-SP	1608332	7.73	1518561	8.92		
680-88067-20	CV0341B-CS-SP	1732892	7.73	1666452	8.92		
680-88067-A-21-B MS		1685259	7.73	1515409	8.92		
680-88067-A-21-C MSD		1697498	7.73	1514801	8.92		

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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: CCVIS 660-135407/3 Date Analyzed: 03/14/2013 10:46

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

Lab File ID (Standard): 1DC14003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2970259	6.14	1905441	7.82	3111970	9.08
UPPER LIMIT		5940518	6.64	3810882	8.32	6223940	9.58
LOWER LIMIT		1485130	5.64	952721	7.32	1555985	8.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88067-6 DL	HP0023A-CS DL	3027383	6.14	1936774	7.82	3166253	9.08
680-88067-6 DL2	HP0023A-CS DL2	3059817	6.14	1914131	7.82	3166665	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.: 680-88067-1

SDG No.: 68088067-1

Sample No.: CCVIS 660-135407/3 Date Analyzed: 03/14/2013 10:46

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

Lab File ID (Standard): 1DC14003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3300921	11.43	3480021	13.30		
UPPER LIMIT		6601842	11.93	6960042	13.80		
LOWER LIMIT		1650461	10.93	1740011	12.80		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88067-6 DL	HP0023A-CS DL	3299722	11.43	3542047	13.31		
680-88067-6 DL2	HP0023A-CS DL2	3206747	11.43	3375548	13.30		

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.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0552A-CS-SP | Lab Sample ID: 680-88067-1

Matrix: Solid | Lab File ID: 1CC12013.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 09:55

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

Sample wt/vol: 15.10(g) | Date Analyzed: 03/12/2013 15:53

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

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

% Moisture: 32.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	9.7	J	59	7.4
120-12-7	Anthracene	19		12	6.2
56-55-3	Benzo[a]anthracene	100		12	5.8
50-32-8	Benzo[a]pyrene	84		15	7.7
205-99-2	Benzo[b]fluoranthene	170		18	9.0
191-24-2	Benzo[g,h,i]perylene	64		30	6.5
207-08-9	Benzo[k]fluoranthene	63		12	5.3
218-01-9	Chrysene	140		13	6.7
53-70-3	Dibenz(a,h)anthracene	20	J	30	6.1
206-44-0	Fluoranthene	150		30	5.9
86-73-7	Fluorene	8.7	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	59		30	11
90-12-0	1-Methylnaphthalene	69		59	6.5
91-57-6	2-Methylnaphthalene	100		59	11
91-20-3	Naphthalene	97		59	6.5
85-01-8	Phenanthrene	130		12	5.8
129-00-0	Pyrene	140		30	5.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12013.D
Lab Smp Id: 680-88067-A-1-A Client Smp ID: CV0552A-CS-SP
Inj Date : 12-MAR-2013 15:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-1-a
Misc Info : 680-88067-A-1-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: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	32.883	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1324484	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1065324	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1946554	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	170195	5.79098	571.4025
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2057494	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	1988358	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	33797	0.98015	96.7127
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	24382	1.06006	104.5973
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	14606	0.69725	68.7984
5 Acenaphthylene	152	4.763	4.763	(0.982)	4232	0.09853	9.7222
9 Fluorene	166	5.192	5.192	(1.070)	2980	0.08826	8.7091(Q)
11 Phenanthrene	178	5.815	5.815	(1.002)	74210	1.31845	130.0929
12 Anthracene	178	5.851	5.851	(1.008)	10392	0.18878	18.6274
13 Carbazole	167	5.957	5.957	(1.026)	9856	0.20142	19.8741

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	91857	1.49022	147.0420
16 Pyrene	202	6.821	6.827	(0.881)	78133	1.41309	139.4313
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	61793	1.04058	102.6750
19 Chrysene	228	7.762	7.768	(1.002)	81329	1.36853	135.0346
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	89522	1.72280	169.9901(M)
21 Benzo(k)fluoranthene	252	8.603	8.615	(0.962)	33805	0.63417	62.5739(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	43068	0.85328	84.1943
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	28358	0.59725	58.9311(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	9627	0.20729	20.4530
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	32125	0.64678	63.8183

QC Flag Legend

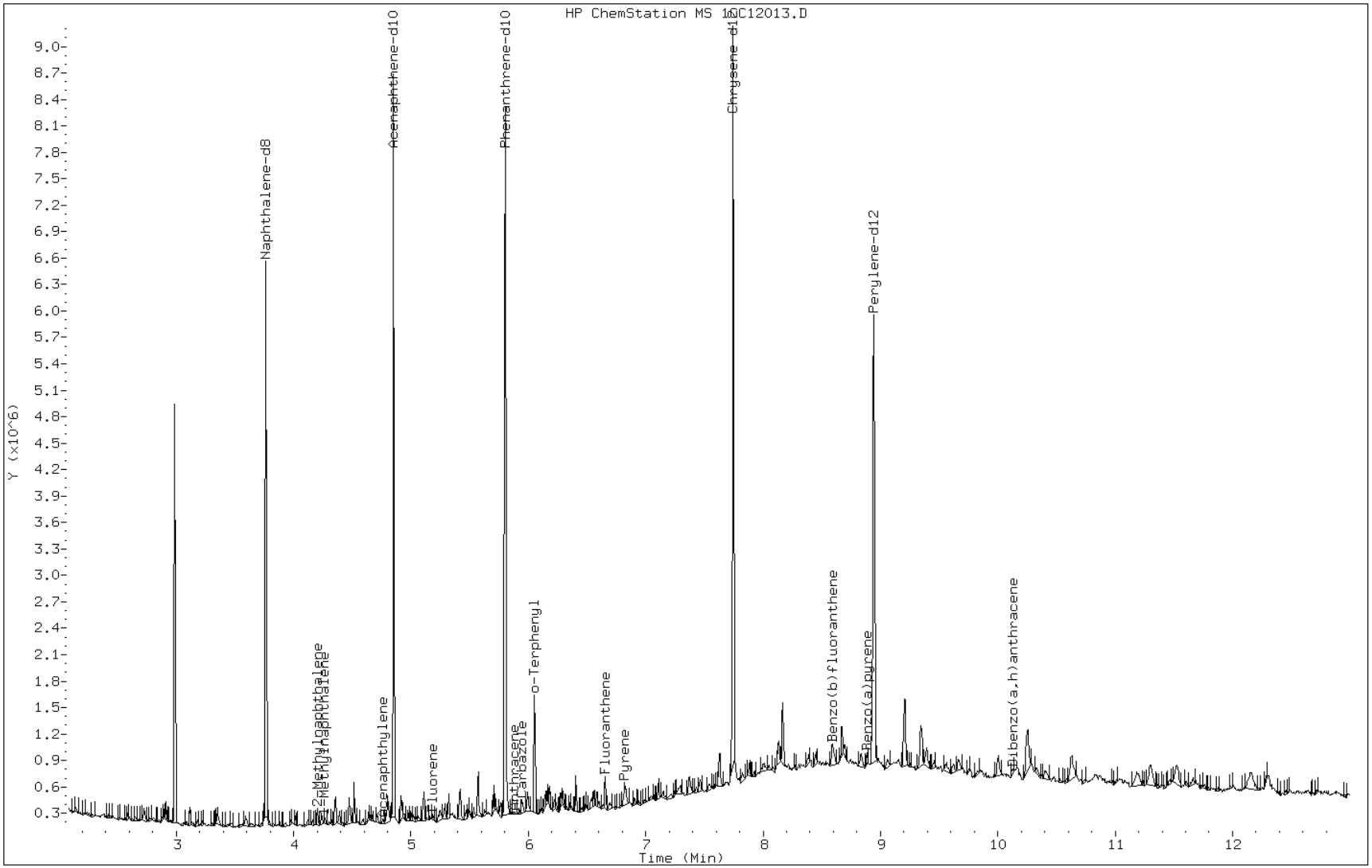
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC



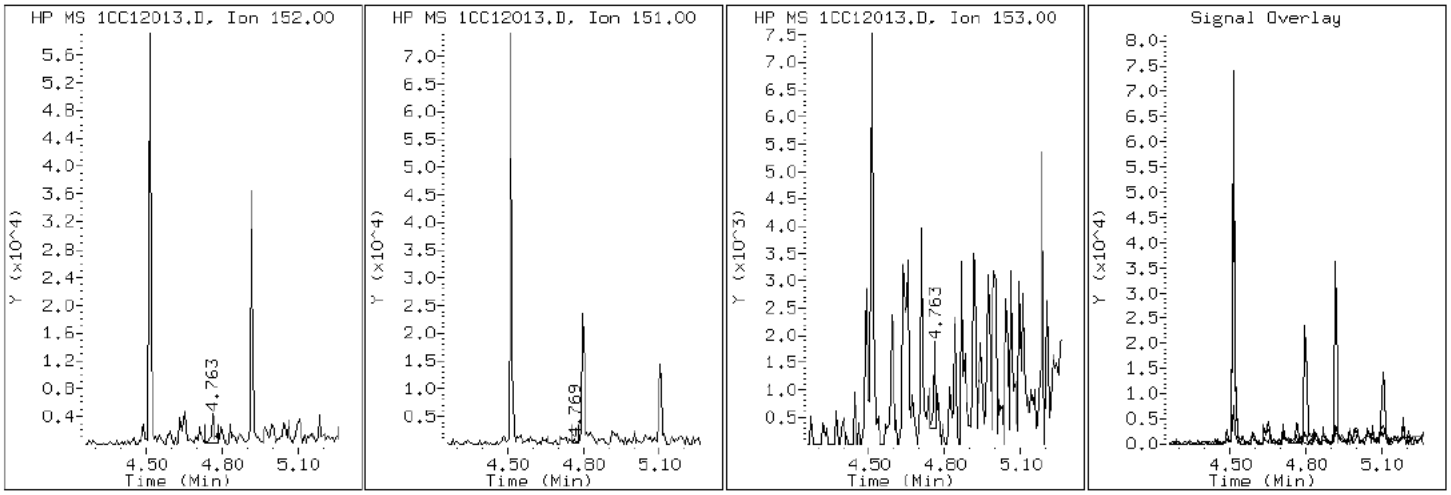
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

5 Acenaphthylene



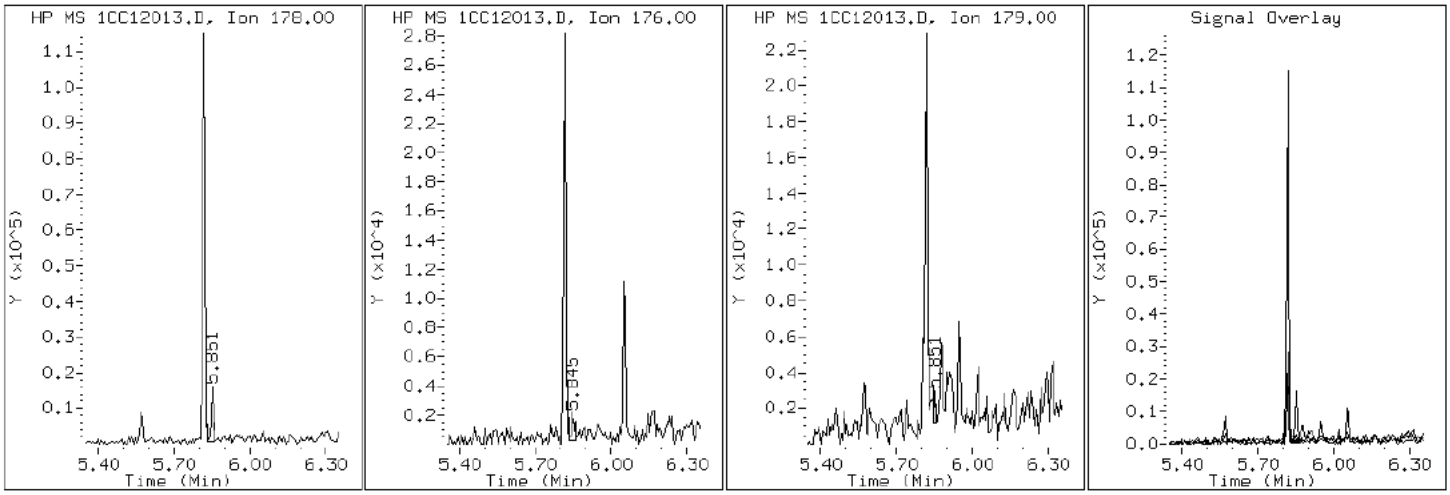
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

12 Anthracene



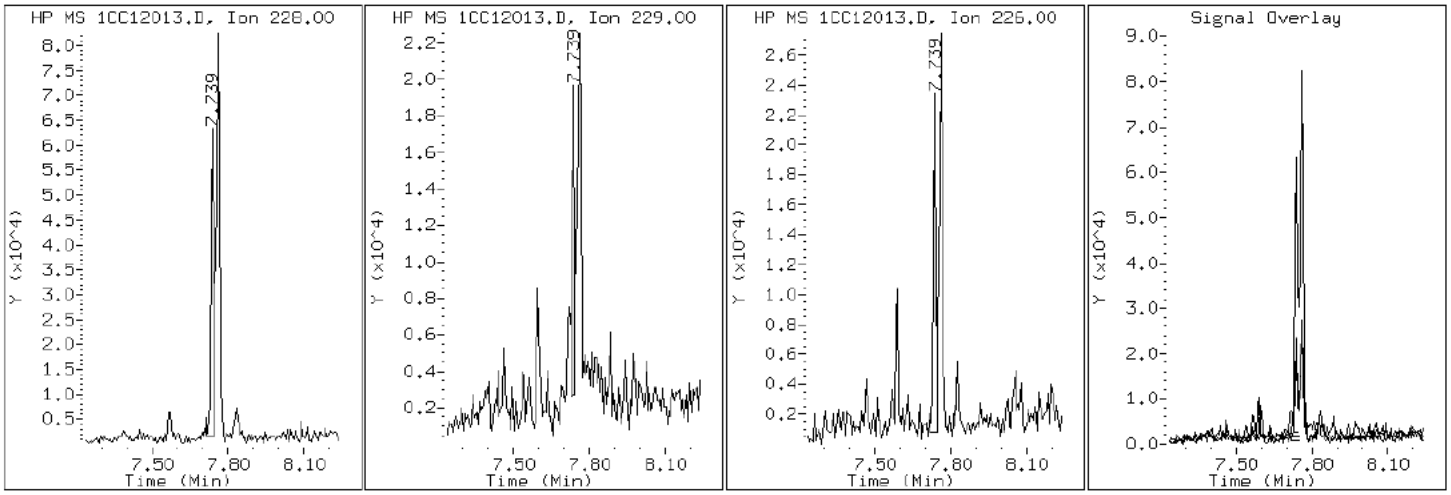
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

17 Benzo(a)anthracene



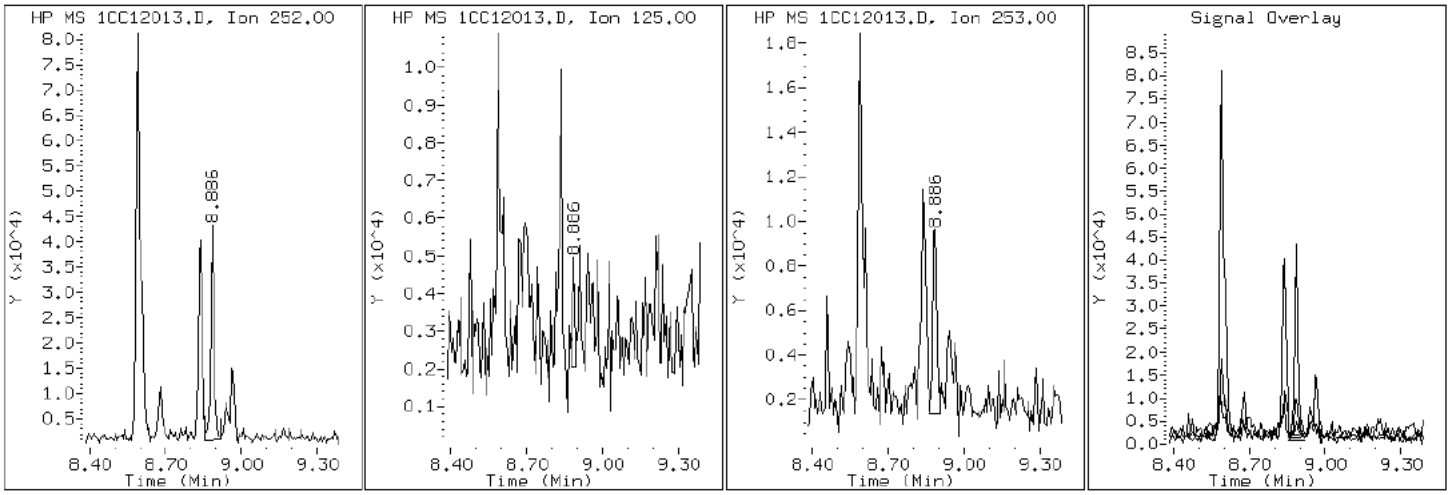
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

22 Benzo(a)pyrene



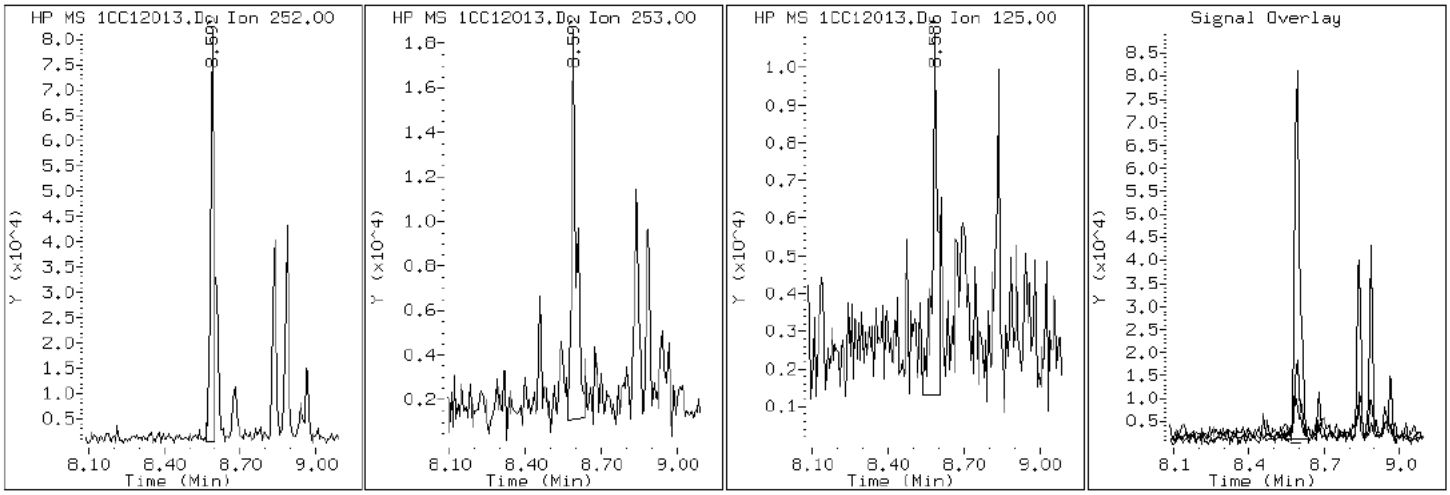
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



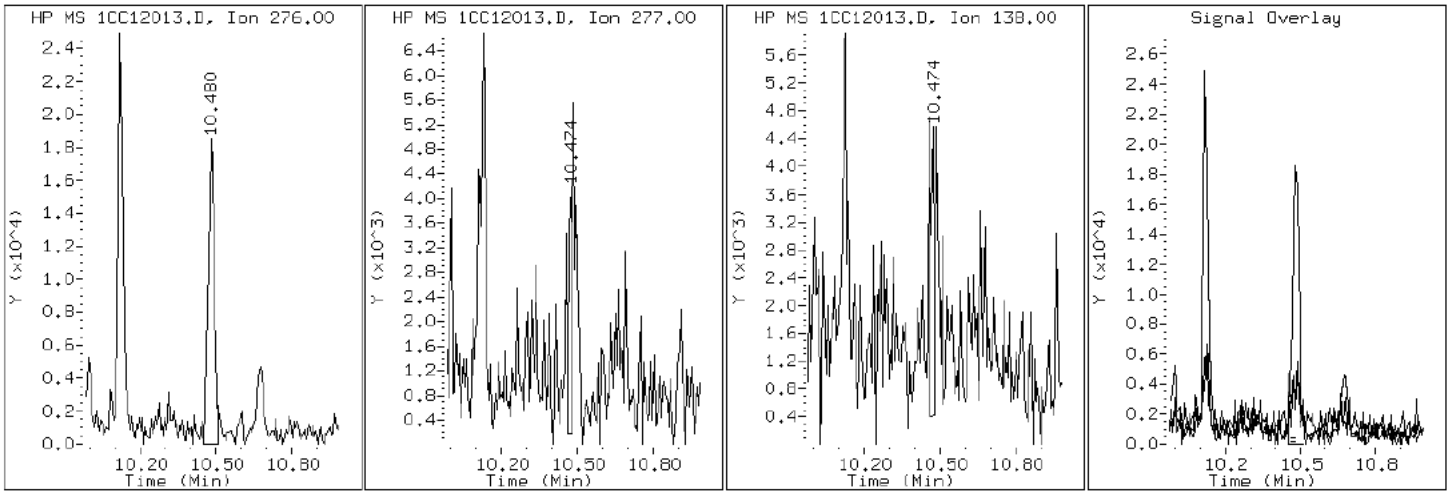
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



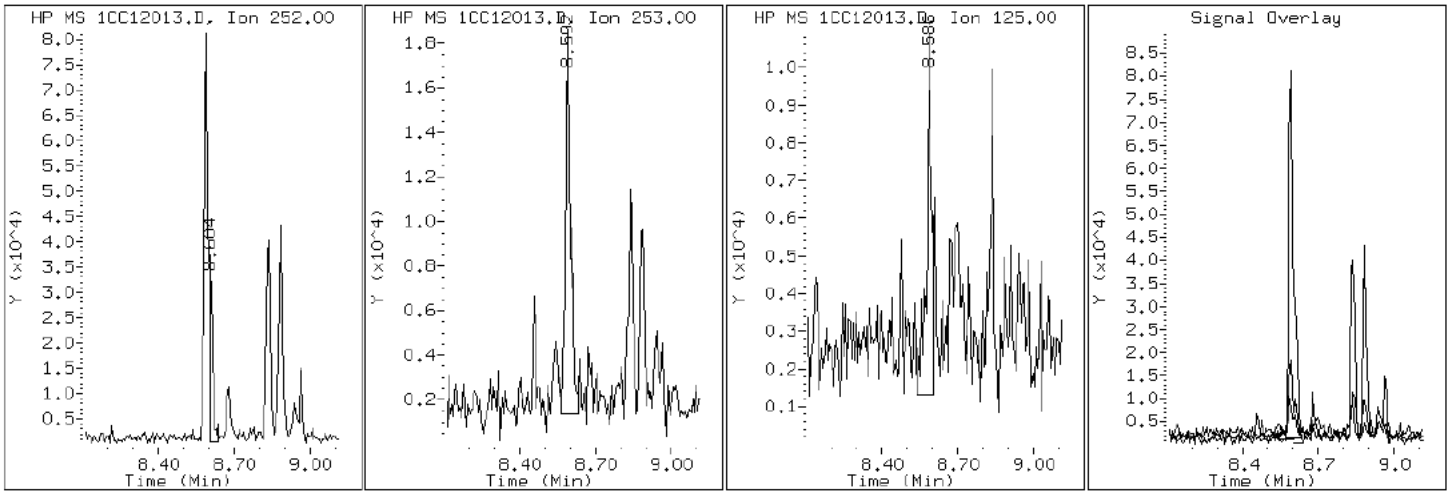
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



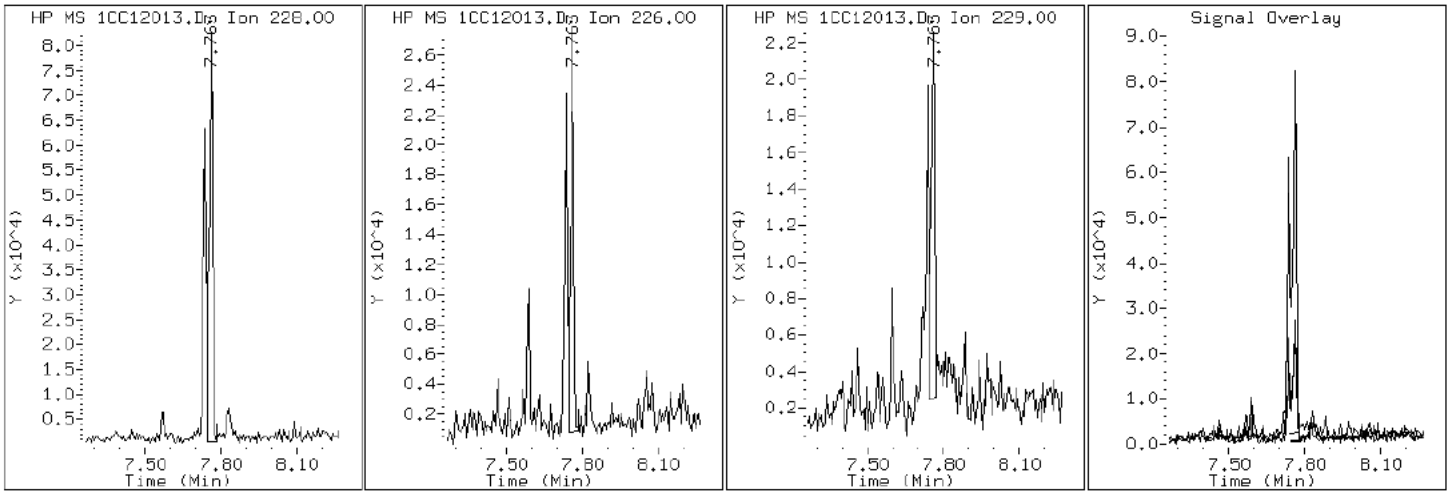
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

19 Chrysene



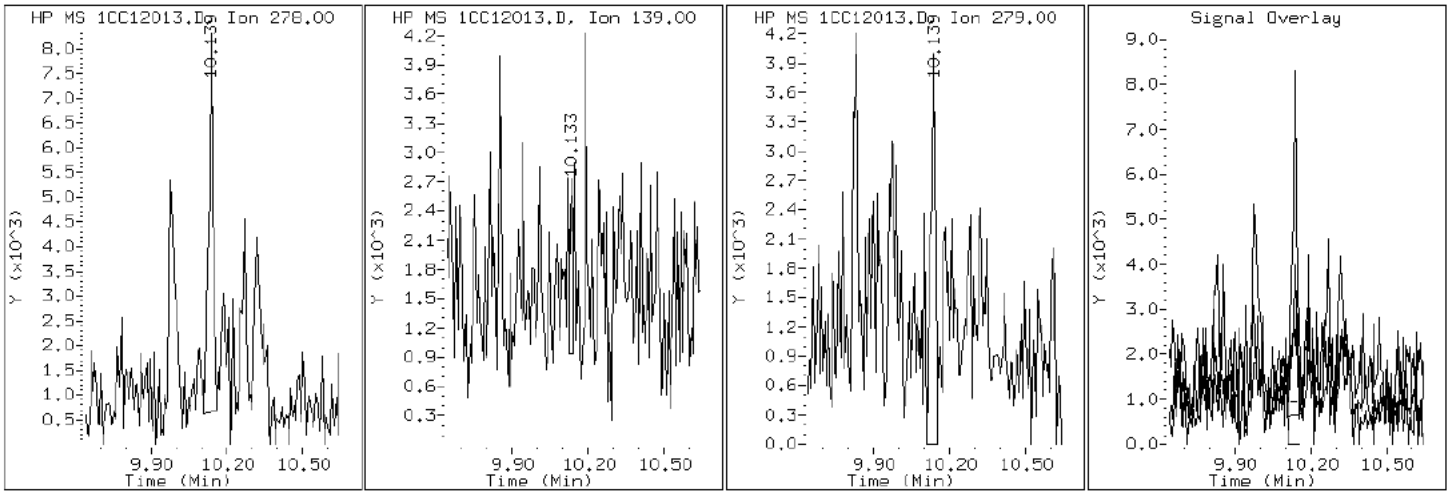
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



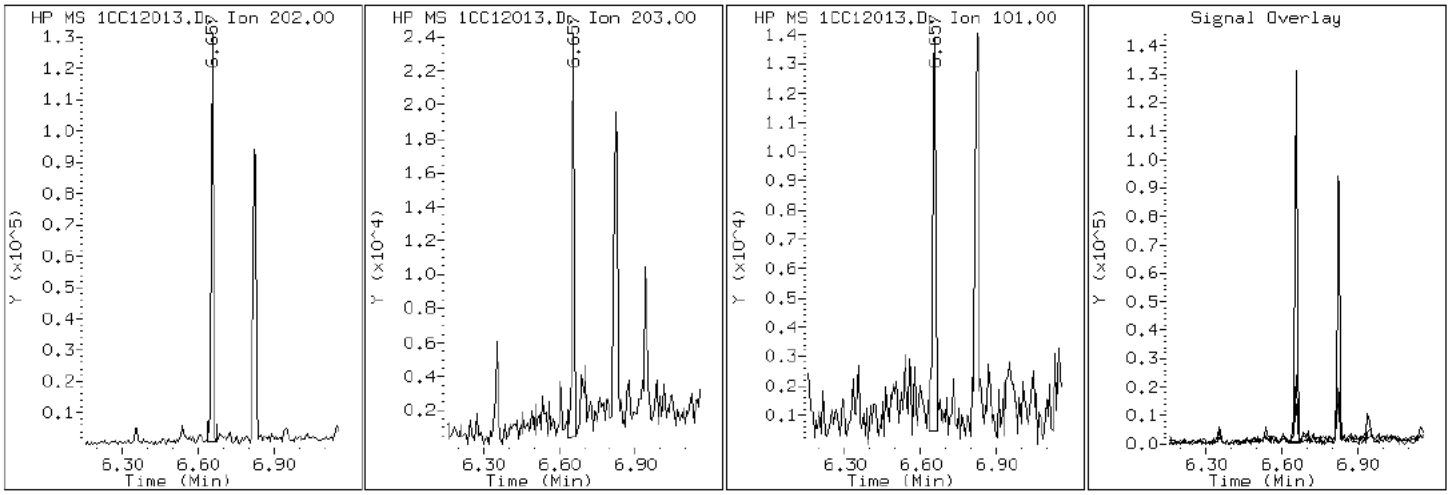
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

15 Fluoranthene



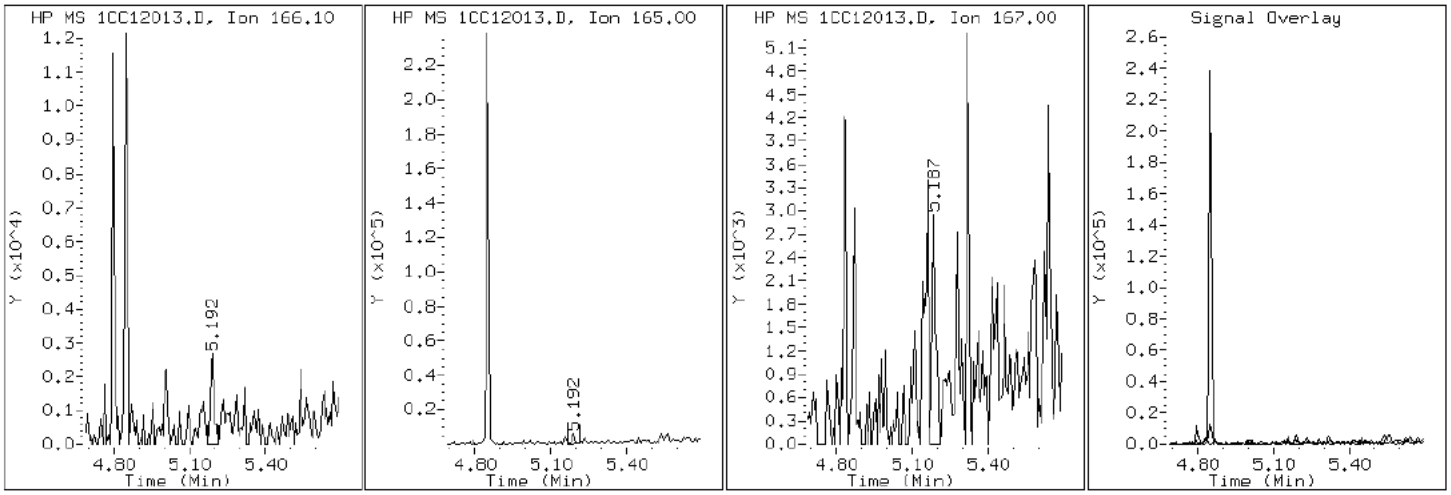
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

9 Fluorene



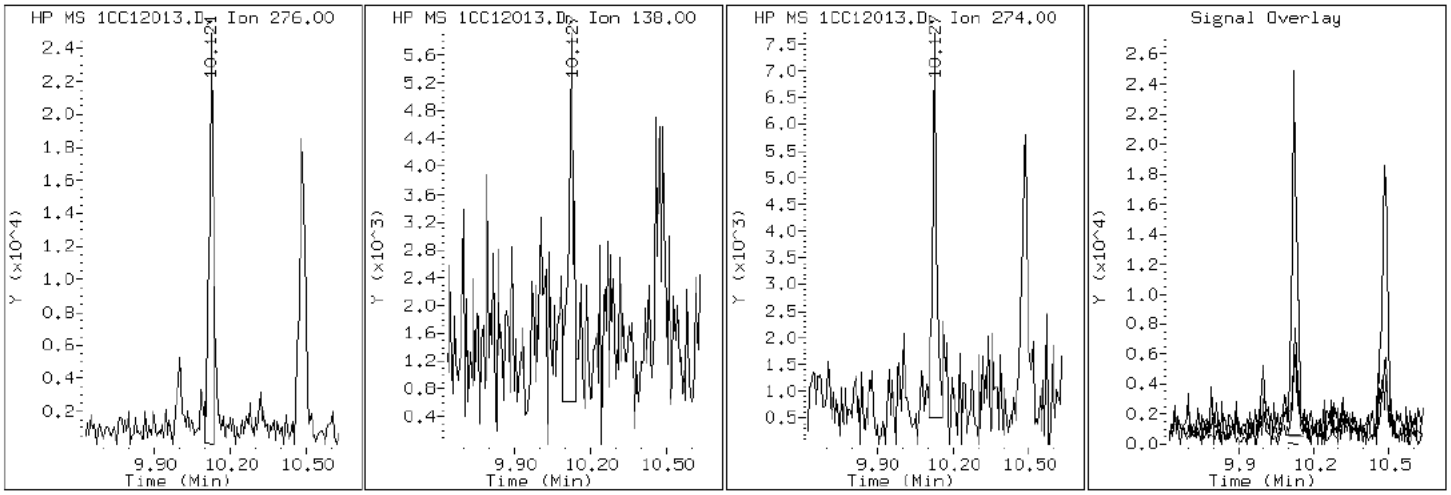
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

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



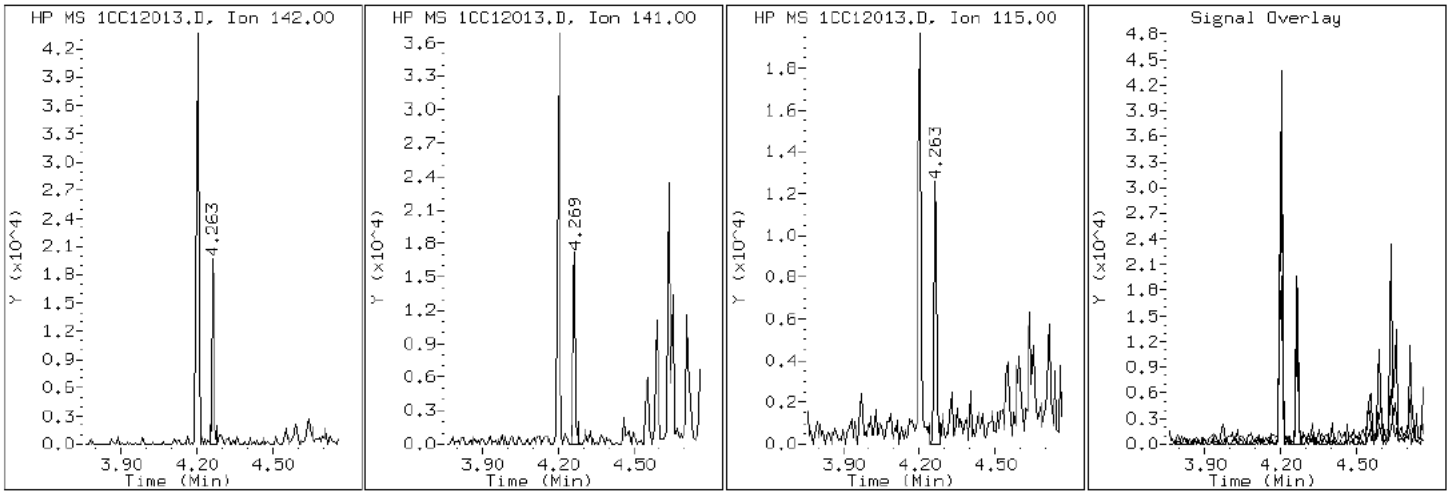
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

4 1-Methylnaphthalene



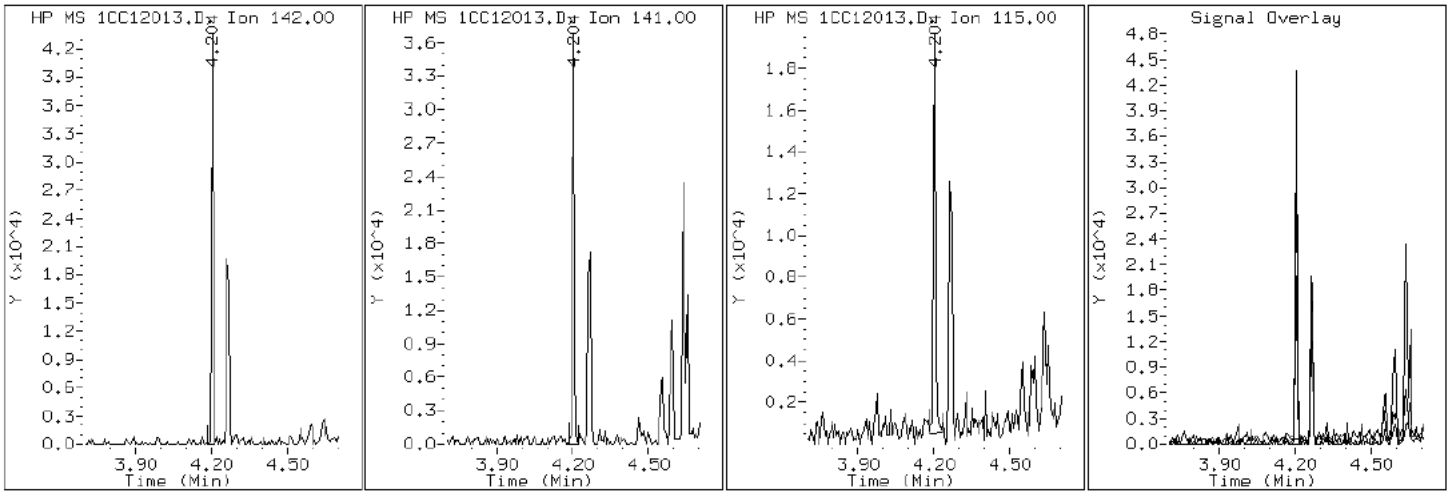
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

3 2-Methylnaphthalene



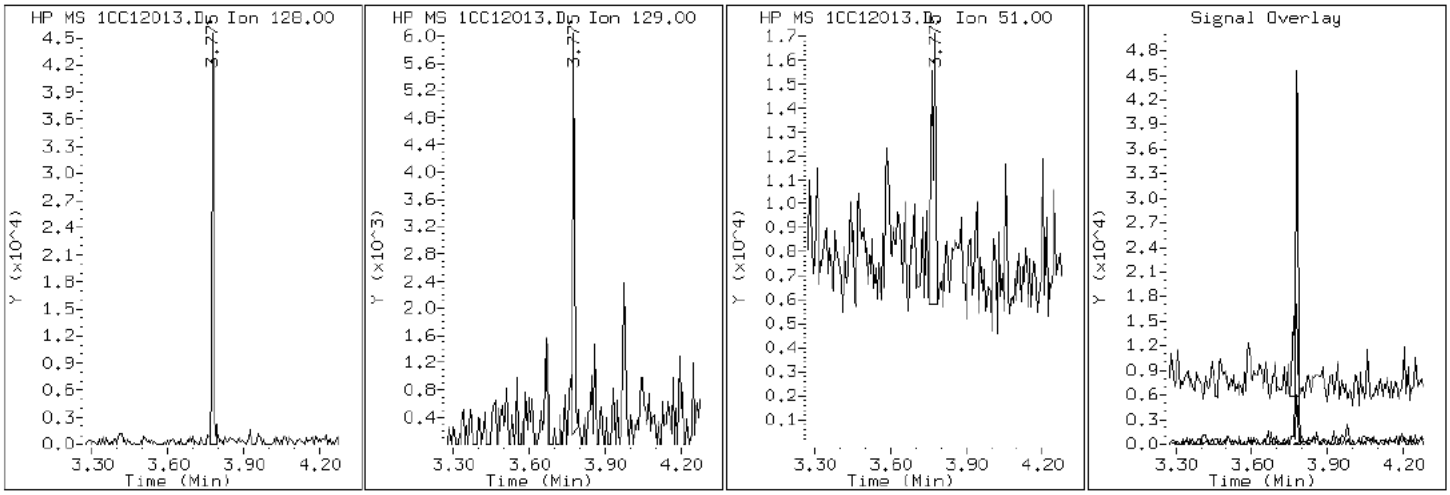
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

2 Naphthalene



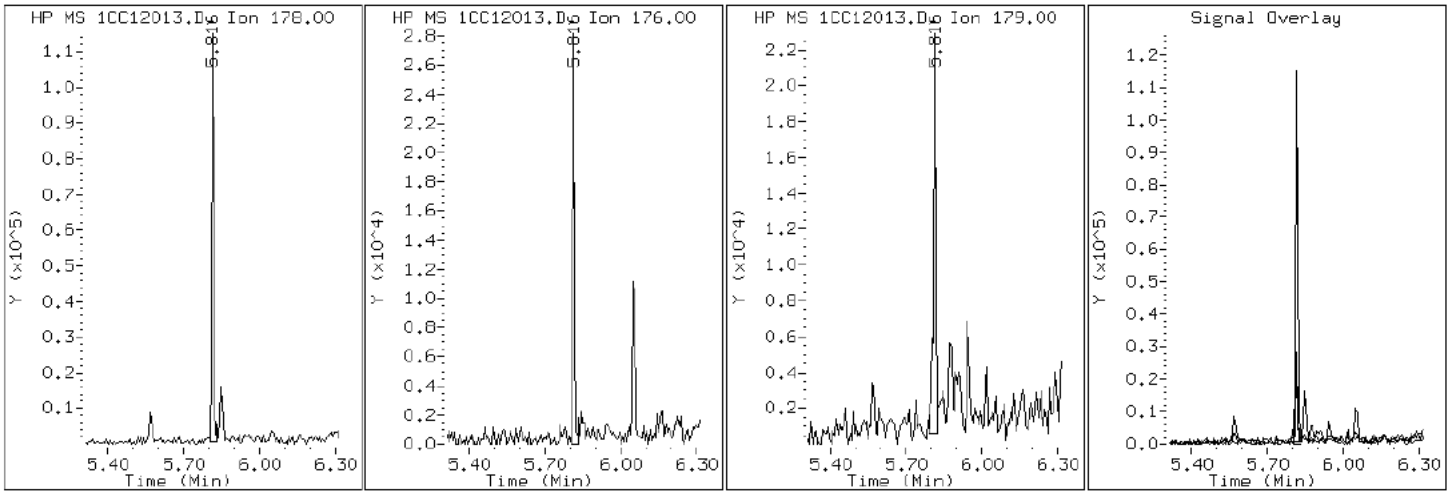
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

11 Phenanthrene



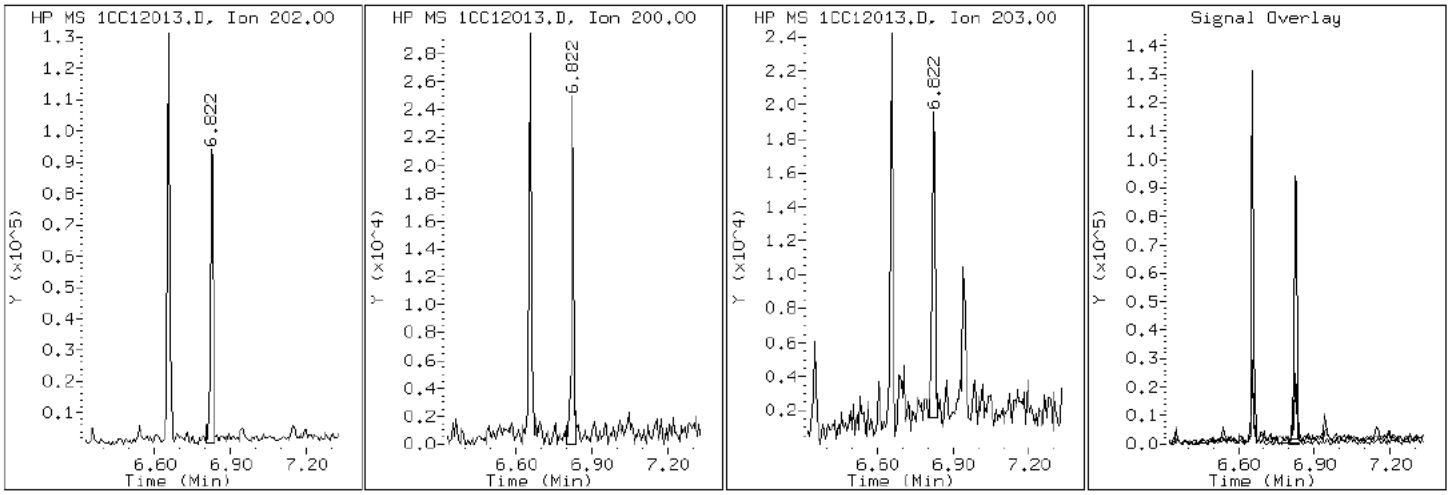
Data File: 1CC12013.D

Date: 12-MAR-2013 15:53

Client ID: CV0552A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12013.D
Inj. Date and Time: 12-MAR-2013 15:53
Instrument ID: BSMC5973.i
Client ID: CV0552A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

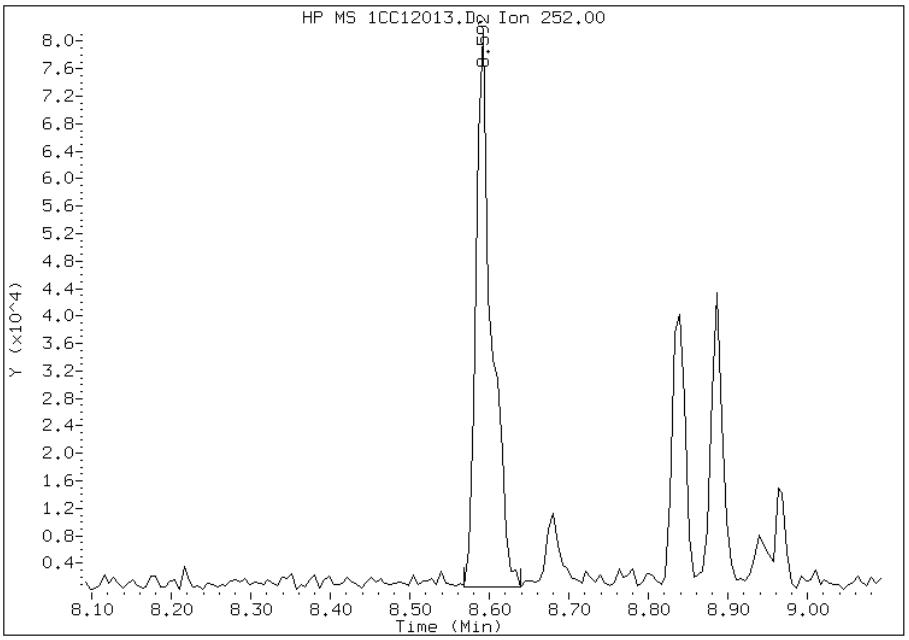
Processing Integration Results

RT: 8.59

Response: 111651

Amount: 2

Conc: 212



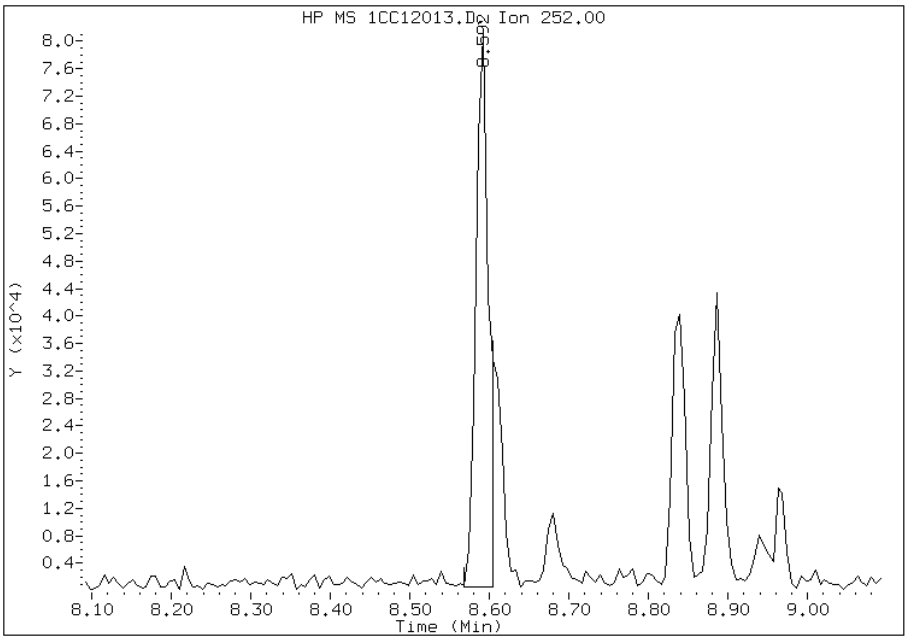
Manual Integration Results

RT: 8.59

Response: 89522

Amount: 2

Conc: 170



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12013.D
Inj. Date and Time: 12-MAR-2013 15:53
Instrument ID: BSMC5973.i
Client ID: CV0552A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

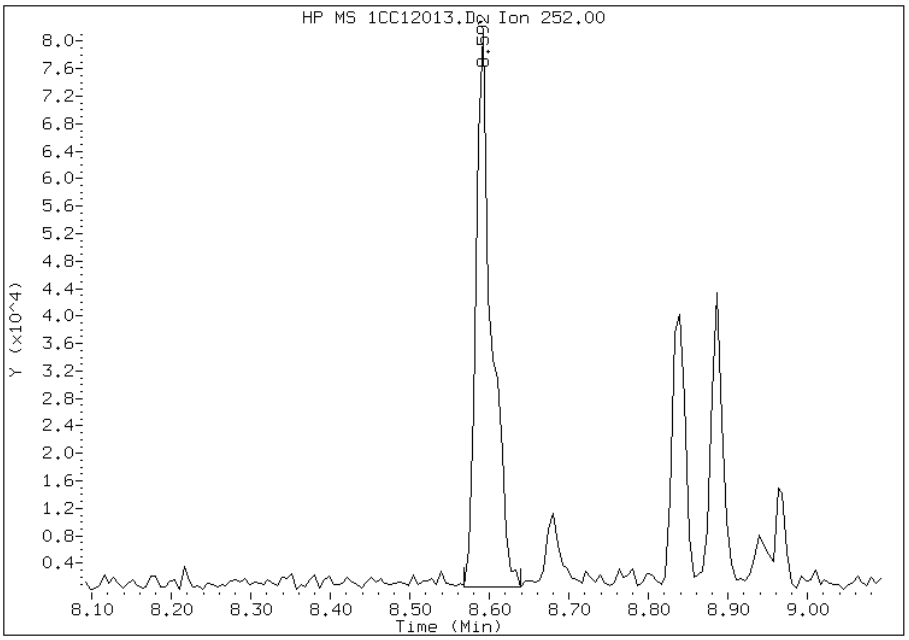
Processing Integration Results

RT: 8.59

Response: 111655

Amount: 2

Conc: 207



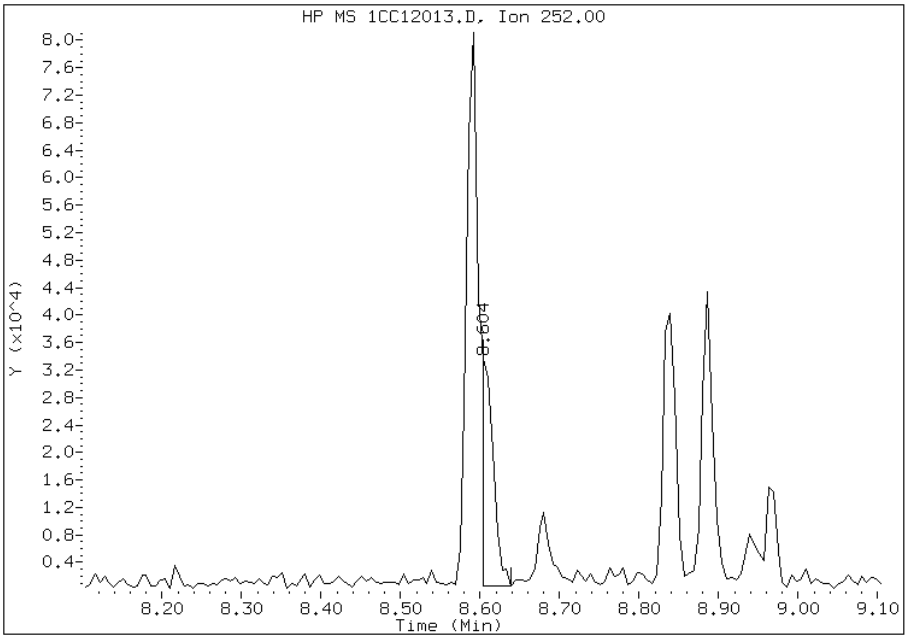
Manual Integration Results

RT: 8.60

Response: 33805

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12013.D
Inj. Date and Time: 12-MAR-2013 15:53
Instrument ID: BSMC5973.i
Client ID: CV0552A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

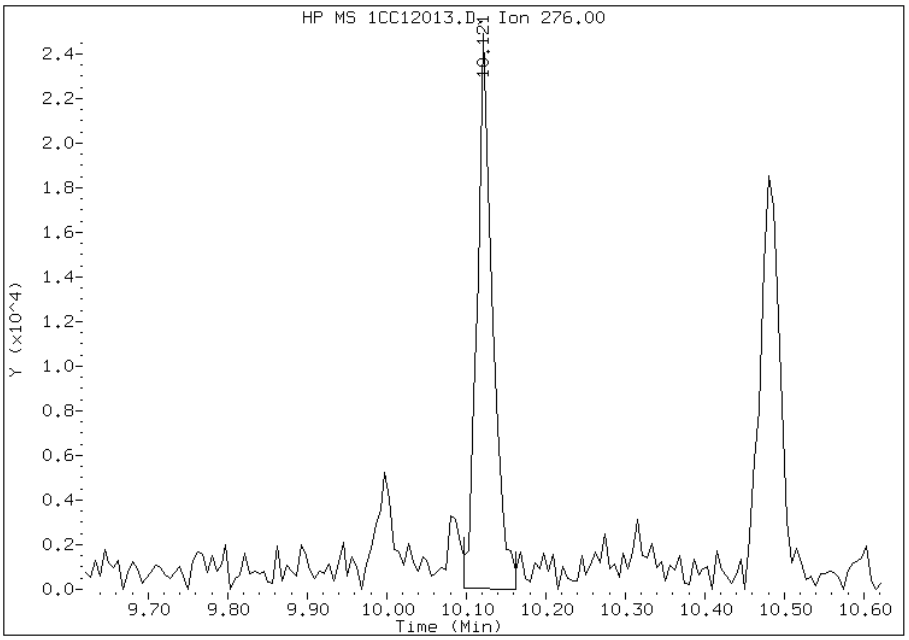
Processing Integration Results

RT: 10.12

Response: 33794

Amount: 1

Conc: 70



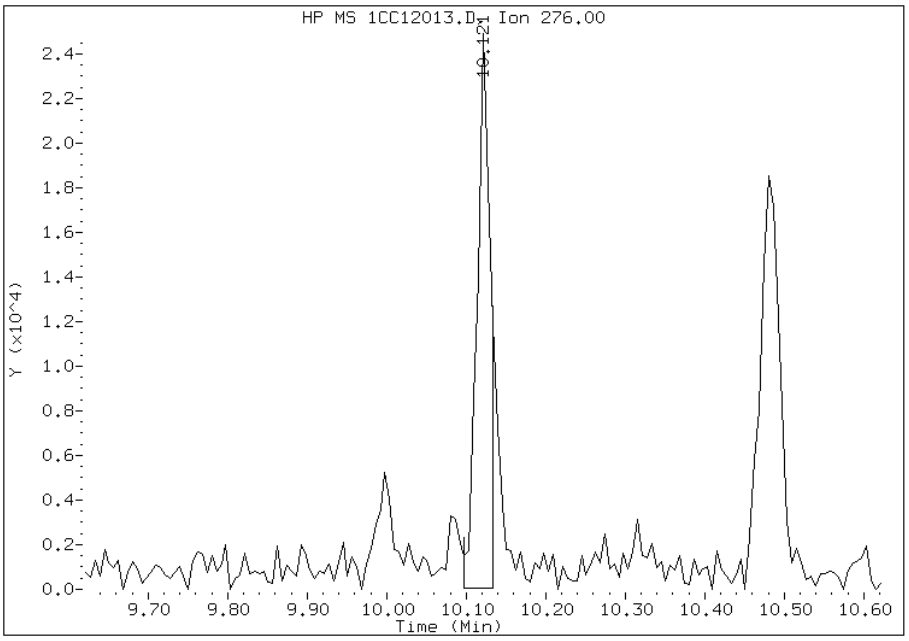
Manual Integration Results

RT: 10.12

Response: 28358

Amount: 1

Conc: 59



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0552B-CS-SP | Lab Sample ID: 680-88067-2

Matrix: Solid | Lab File ID: 1AC13027.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:10

Extract. Method: 3546 | Date Extracted: 03/11/2013 13:49

Sample wt/vol: 15.06(g) | Date Analyzed: 03/13/2013 17:24

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

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

% Moisture: 30.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135452 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	51	J F	230	29
120-12-7	Anthracene	69	F	48	24
56-55-3	Benzo[a]anthracene	180	F	46	22
50-32-8	Benzo[a]pyrene	80	F	59	30
205-99-2	Benzo[b]fluoranthene	200	F	70	35
191-24-2	Benzo[g,h,i]perylene	120	F	110	25
207-08-9	Benzo[k]fluoranthene	57	F	46	21
218-01-9	Chrysene	380	F	51	26
53-70-3	Dibenz(a,h)anthracene	57	J	110	23
206-44-0	Fluoranthene	190	F	110	23
86-73-7	Fluorene	64	J F	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	83	J F	110	41
90-12-0	1-Methylnaphthalene	920	F	230	25
91-57-6	2-Methylnaphthalene	1200	F	230	41
91-20-3	Naphthalene	820	F	230	25
85-01-8	Phenanthrene	570		46	22
129-00-0	Pyrene	220	F	110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13027.D
Lab Smp Id: 680-88067-A-2-A Client Smp ID: CV0552B-CS-SP
Inj Date : 13-MAR-2013 17:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88067-A-2-A
Misc Info : 680-88067-A-2-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	30.174	% 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	2.319	2.306	(1.000)	559045	40.0000	
*	6 Acenaphthene-d10	164	3.339	3.326	(1.000)	400892	40.0000	
*	10 Phenanthrene-d10	188	4.264	4.250	(1.000)	591085	40.0000	
$	14 o-Terphenyl	230	4.536	4.528	(1.064)	9263	1.07698	409.6620
*	18 Chrysene-d12	240	6.267	6.243	(1.000)	457554	40.0000	(H)
*	23 Perylene-d12	264	7.362	7.327	(1.000)	642696	40.0000	(H)
	2 Naphthalene	128	2.330	2.316	(1.005)	29126	2.16214	822.4373
	3 2-Methylnaphthalene	141	2.730	2.722	(1.177)	21825	3.13840	1193.7875
	4 1-Methylnaphthalene	142	2.784	2.776	(1.200)	18800	2.42771	923.4527
	5 Acenaphthylene	152	3.254	3.241	(0.974)	1996	0.13334	50.7217
	9 Fluorene	166	3.660	3.652	(1.096)	1829	0.16754	63.7307
	11 Phenanthrene	178	4.274	4.266	(1.002)	22199	1.51092	574.7243
	12 Anthracene	178	4.306	4.298	(1.010)	2587	0.18127	68.9521
	13 Carbazole	167	4.472	4.453	(1.049)	1603	0.12724	48.3996(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.124	5.116	(1.202)	7461	0.50789	193.1900
16 Pyrene	202	5.295	5.276	(0.845)	7662	0.57091	217.1628(H)
17 Benzo(a)anthracene	228	6.256	6.232	(0.998)	6570	0.48089	182.9206(QMH)
19 Chrysene	228	6.278	6.264	(1.002)	12316	1.00795	383.4050(QMH)
20 Benzo(b)fluoranthene	252	7.074	7.055	(0.961)	8356	0.51288	195.0896(MH)
21 Benzo(k)fluoranthene	252	7.090	7.071	(0.963)	2451	0.14953	56.8793(QMH)
22 Benzo(a)pyrene	252	7.303	7.279	(0.992)	3147	0.21092	80.2301(H)
24 Indeno(1,2,3-cd)pyrene	276	8.062	8.027	(1.095)	2788	0.21781	82.8496(MH)
25 Dibenzo(a,h)anthracene	278	8.067	8.038	(1.096)	2013	0.15091	57.4037(H)
26 Benzo(g,h,i)perylene	276	8.249	8.214	(1.120)	4427	0.32517	123.6871(H)

QC Flag Legend

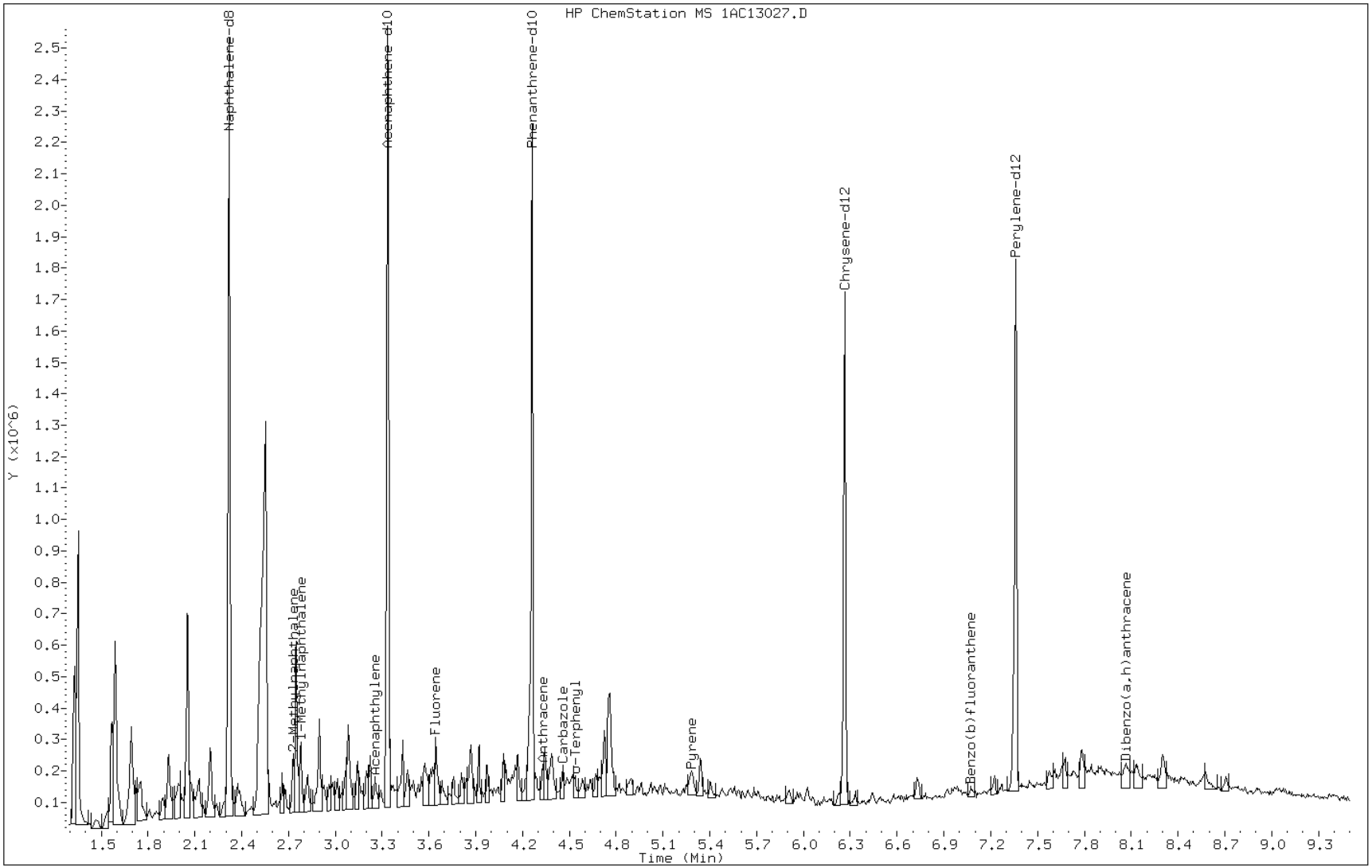
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC



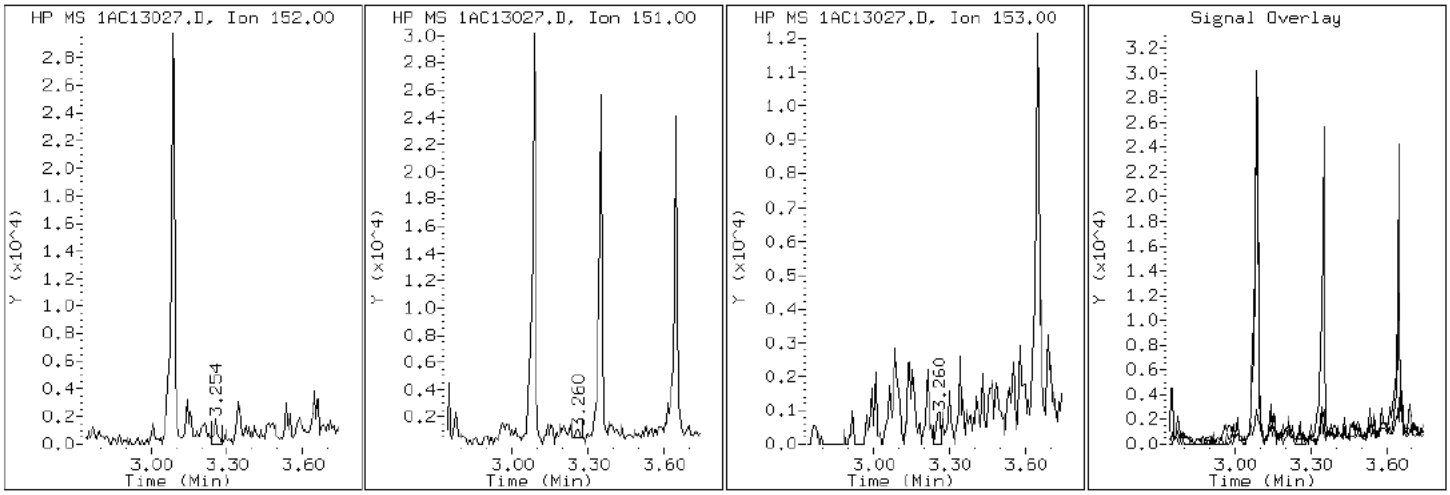
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

5 Acenaphthylene



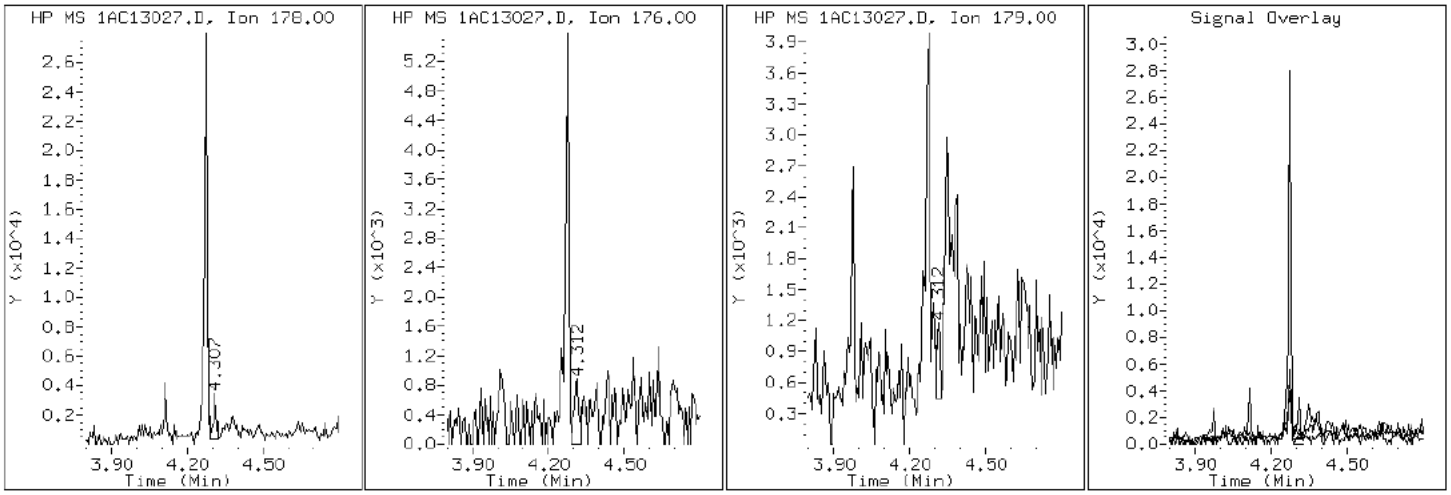
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

12 Anthracene



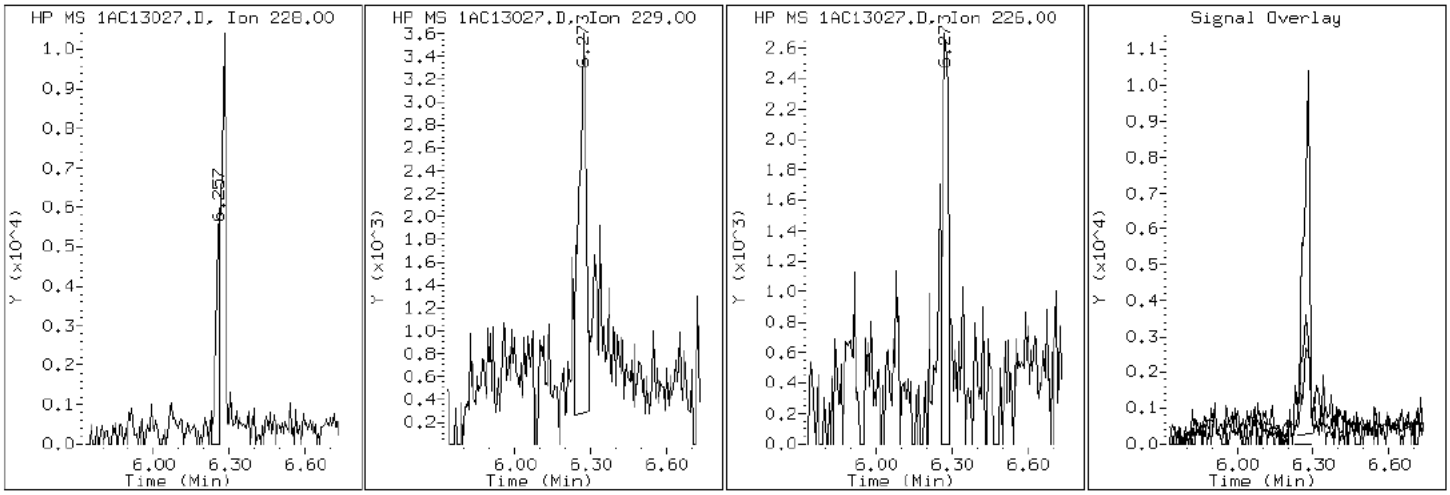
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

17 Benzo(a)anthracene



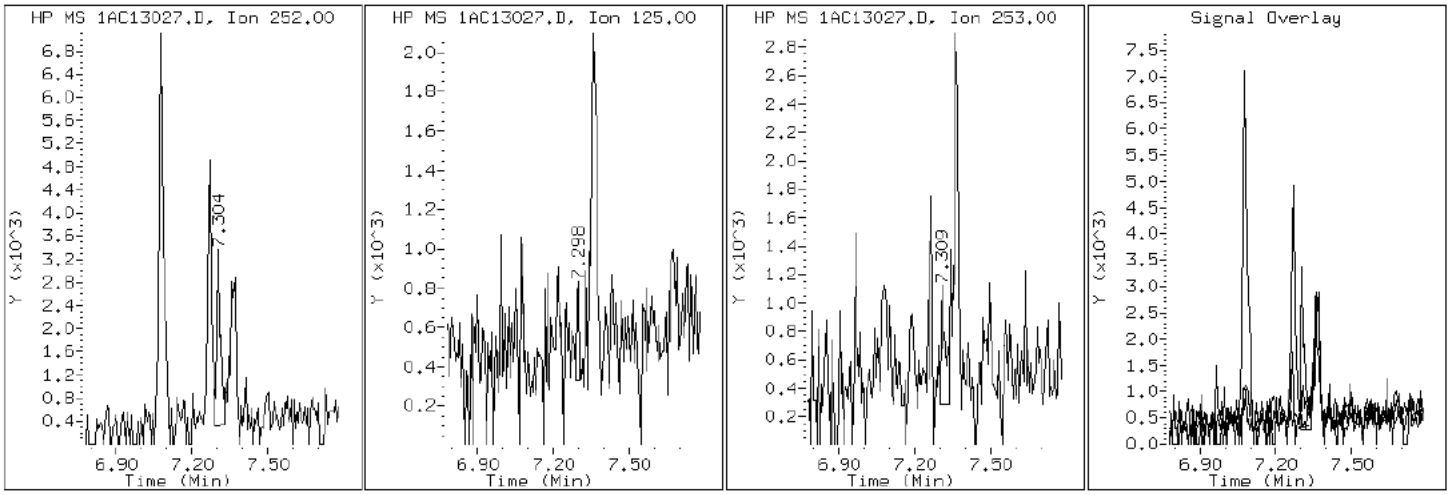
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

22 Benzo(a)pyrene



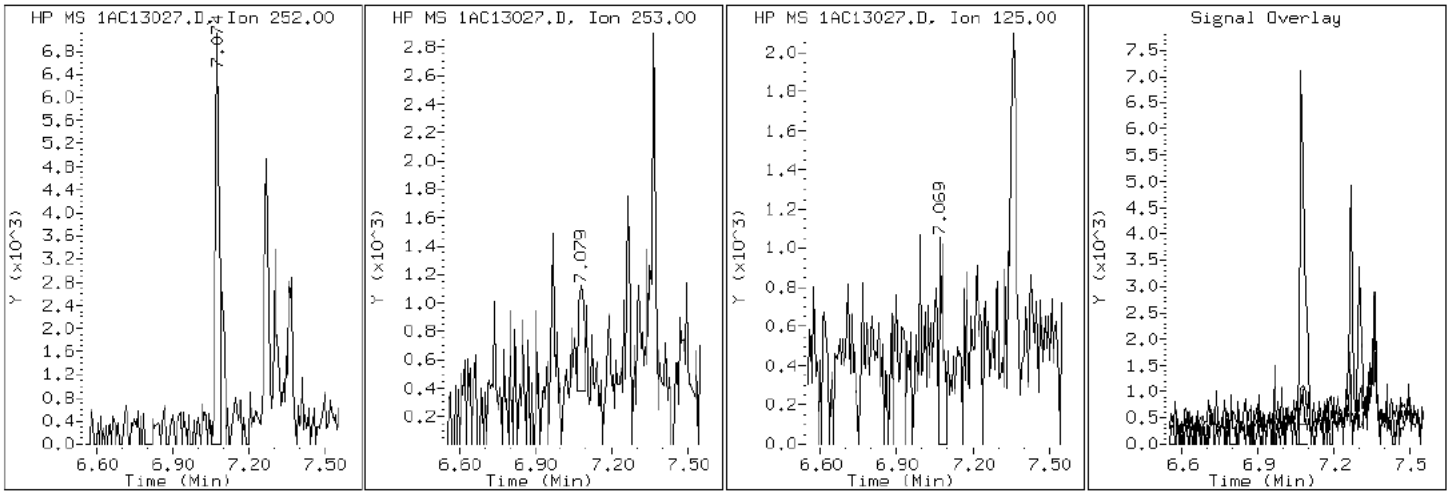
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

20 Benzo(b)fluoranthene



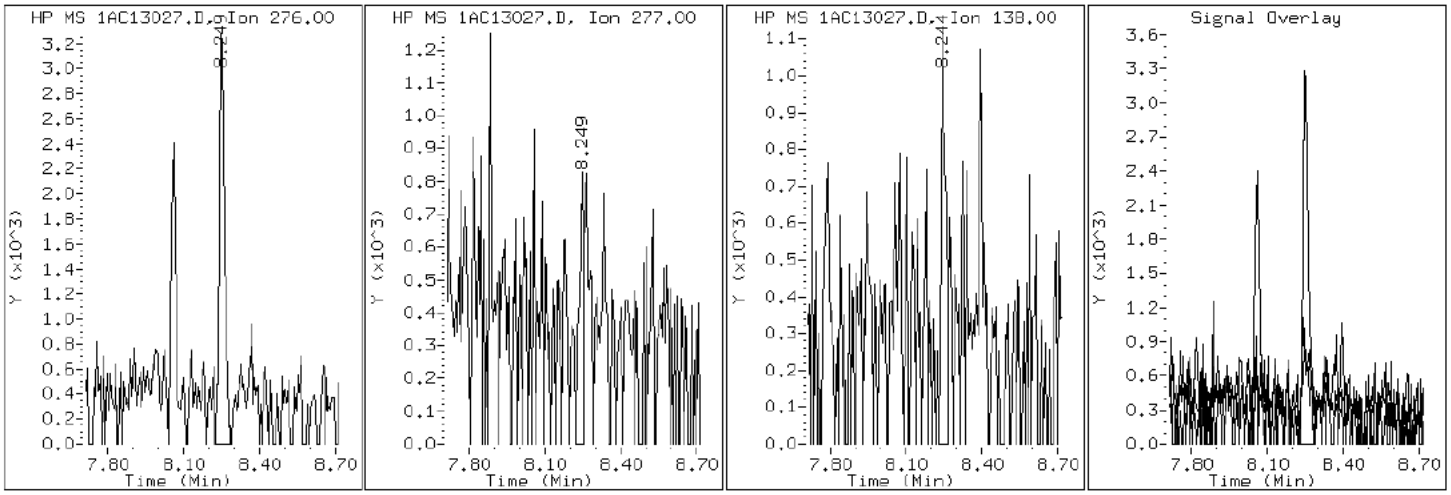
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

26 Benzo(g,h,i)perylene



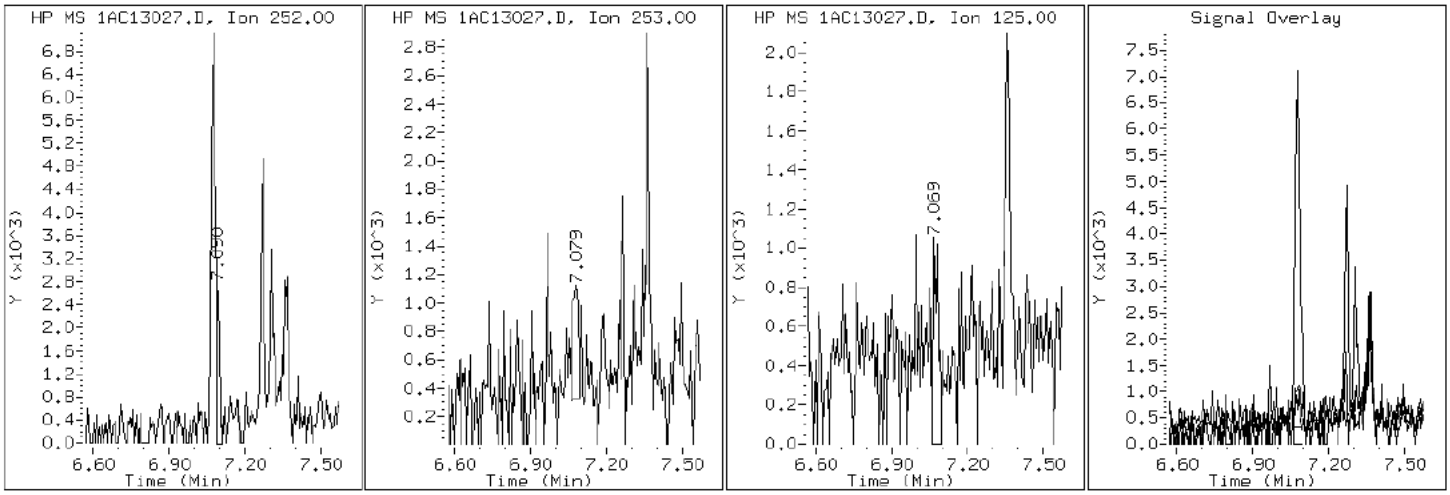
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

21 Benzo(k)fluoranthene



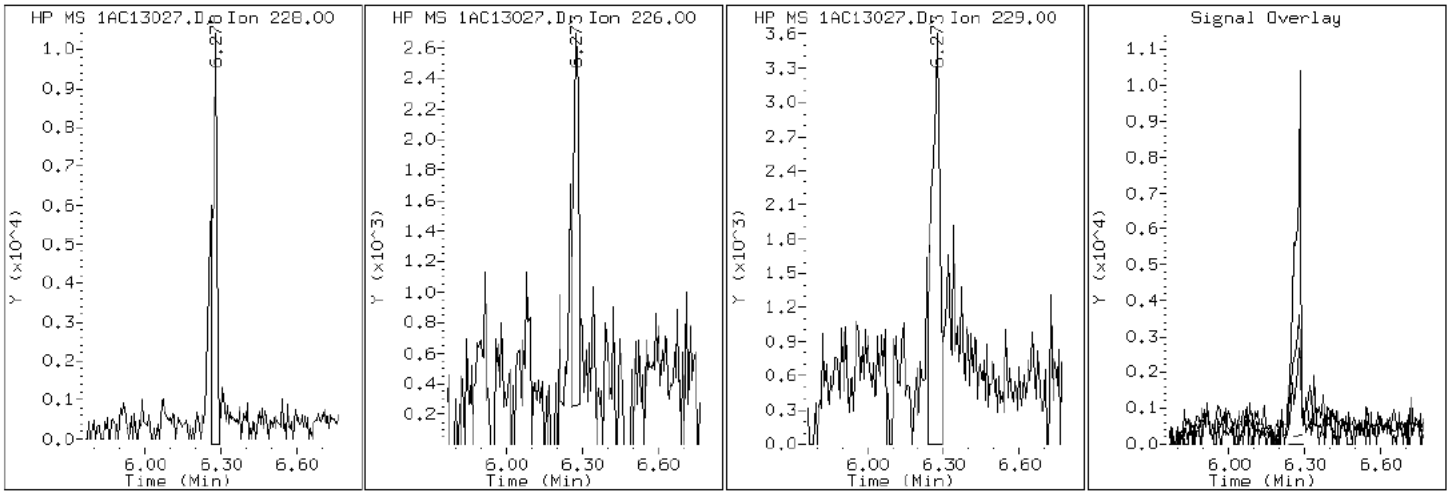
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

19 Chrysene



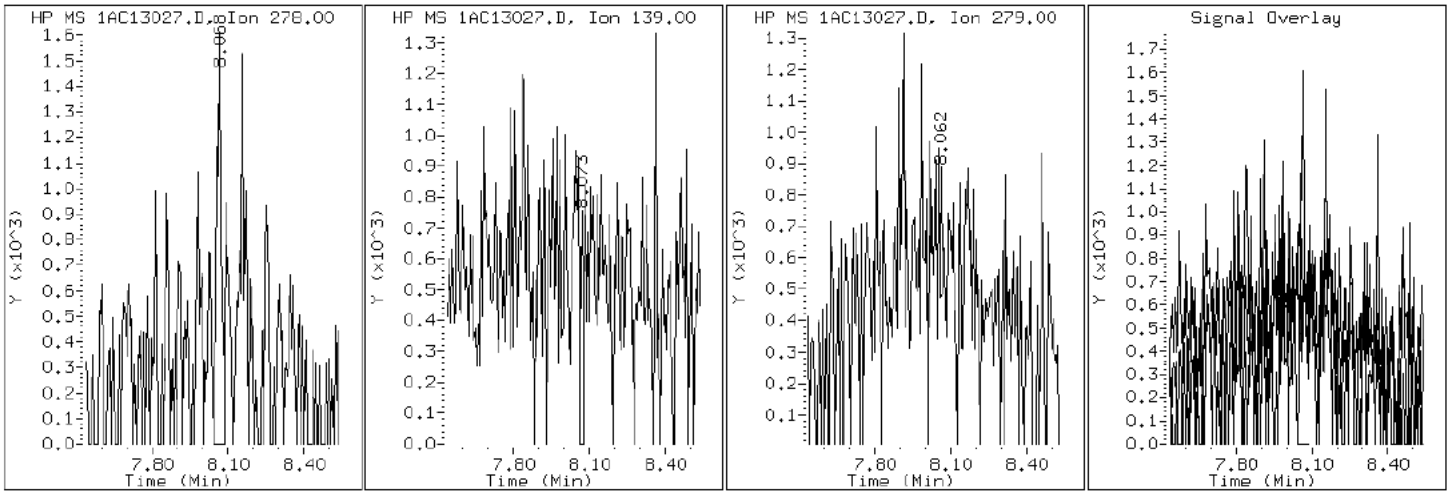
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

25 Dibenzo(a,h)anthracene



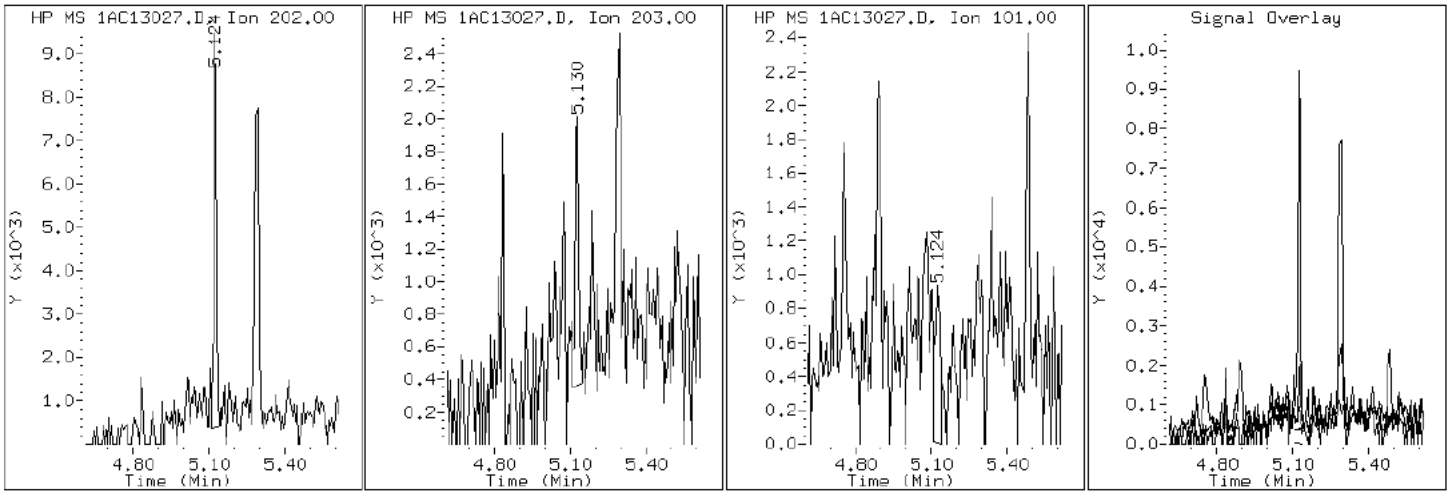
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

15 Fluoranthene



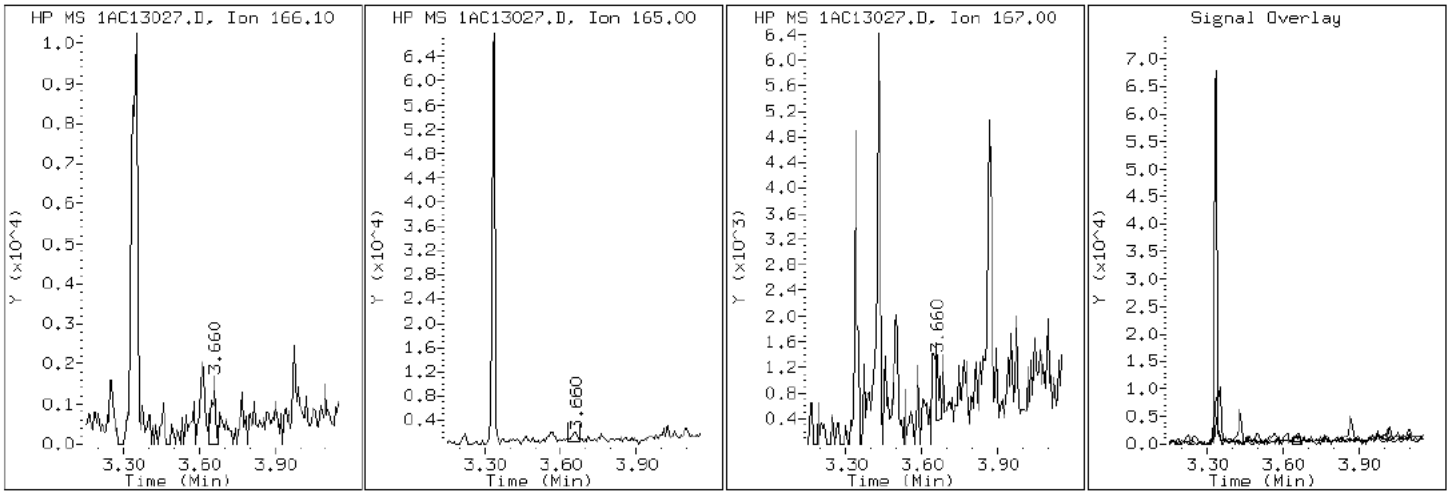
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

9 Fluorene



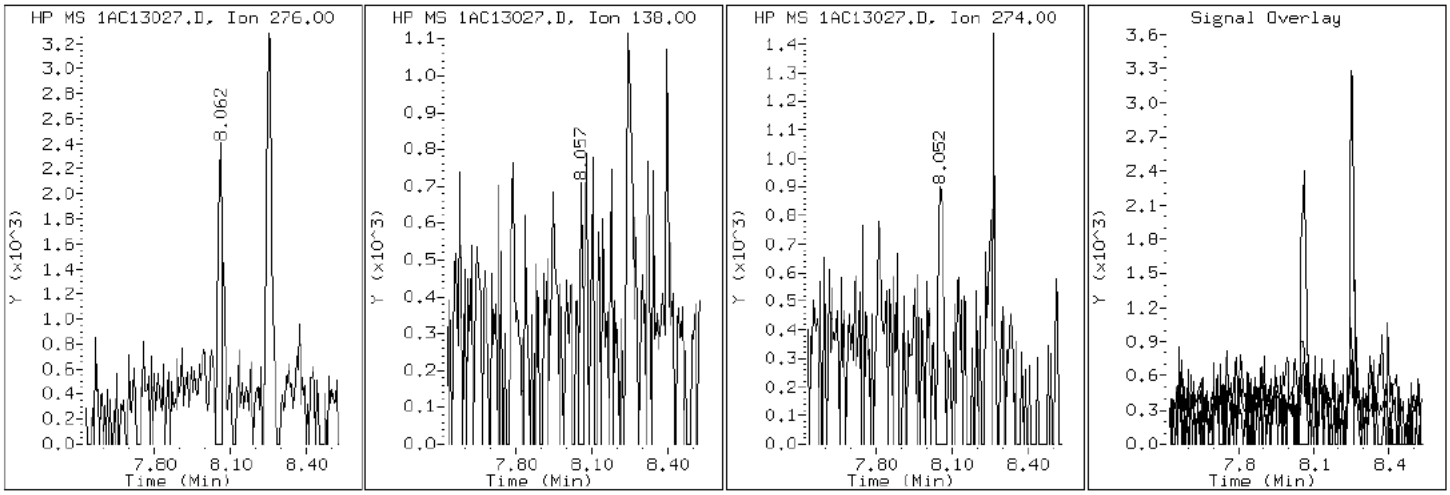
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

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



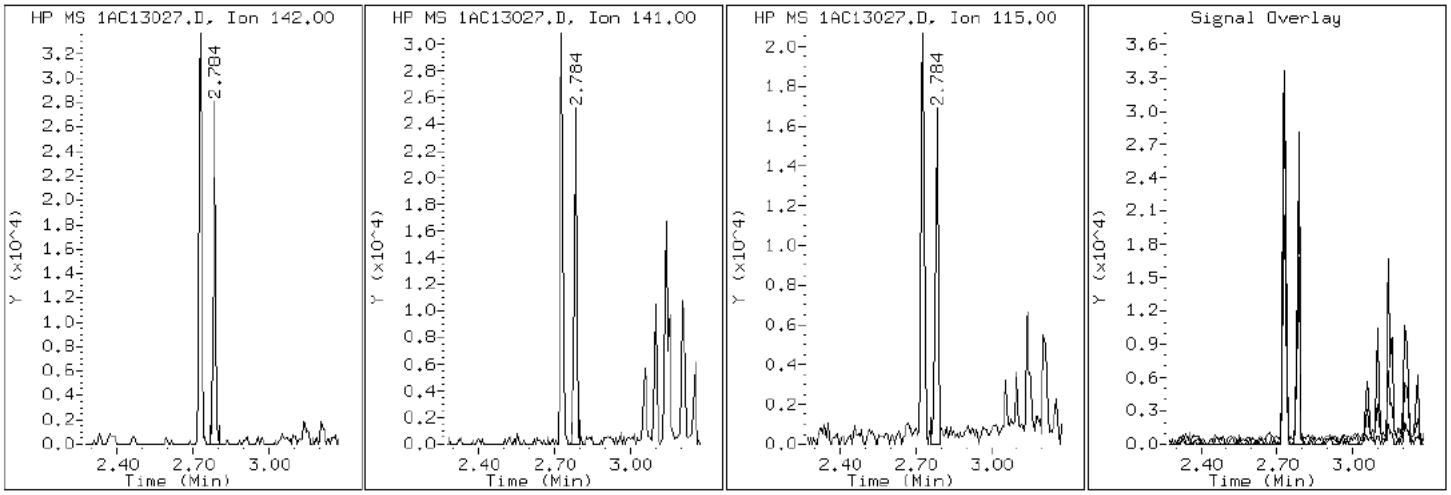
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

4 1-Methylnaphthalene



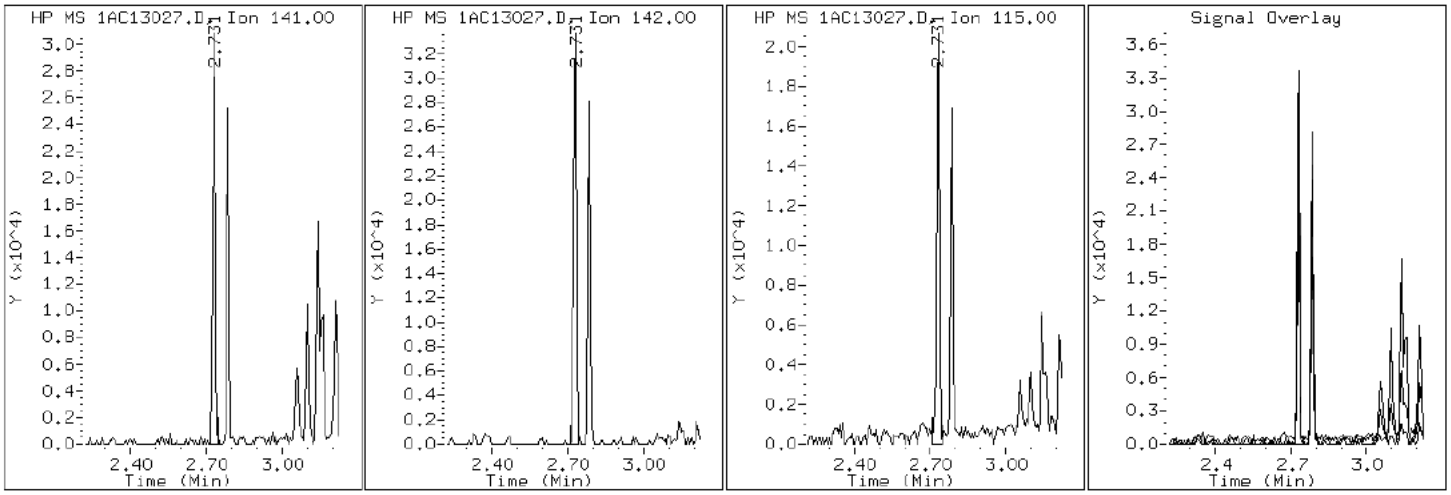
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

3 2-Methylnaphthalene



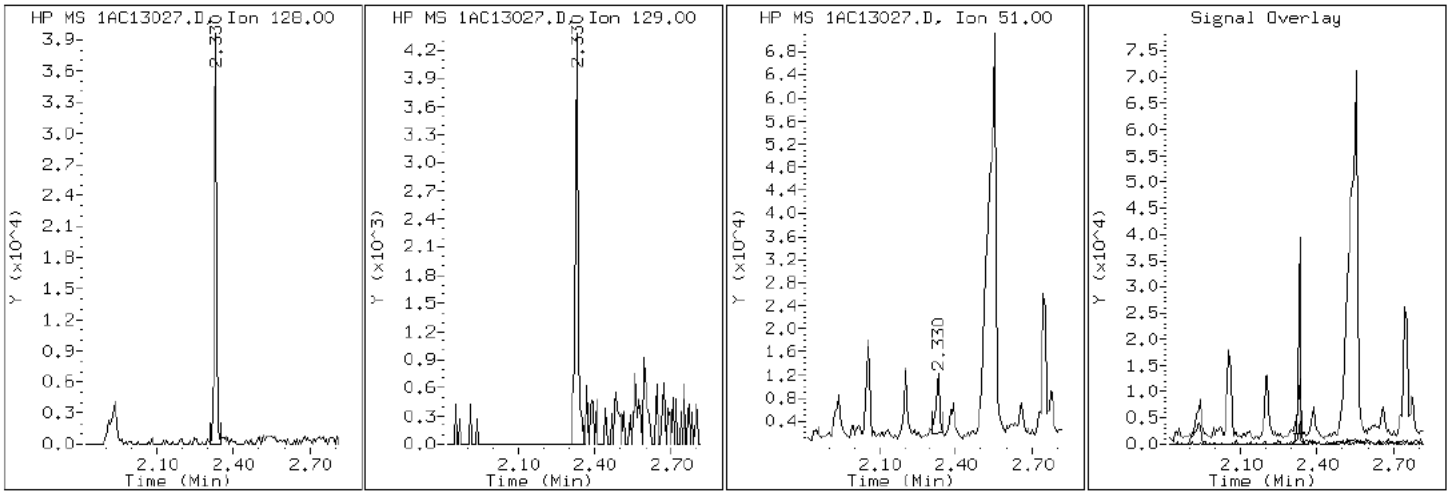
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

2 Naphthalene



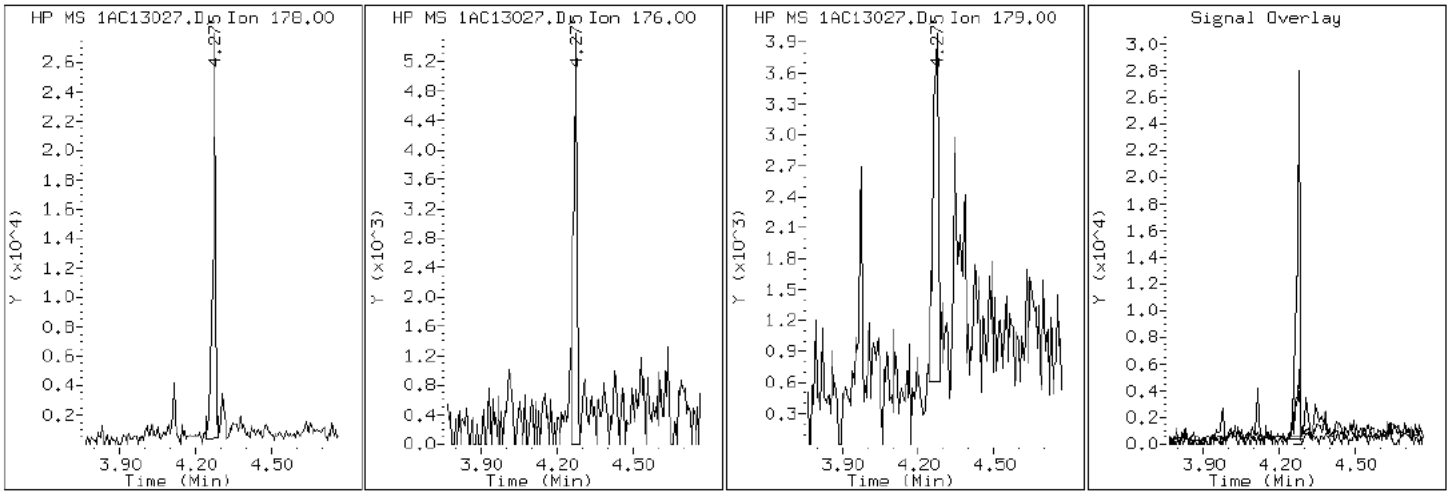
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

11 Phenanthrene



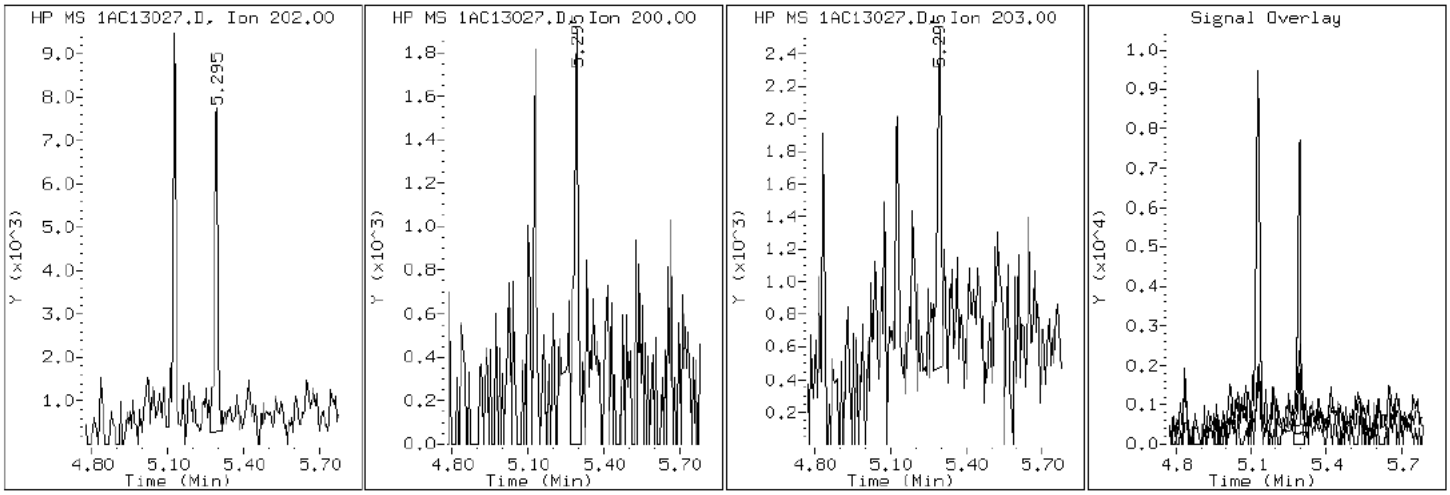
Data File: 1AC13027.D

Date: 13-MAR-2013 17:24

Client ID: CV0552B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC13027.D
Inj. Date and Time: 13-MAR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0552B-CS-SP
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 03/15/2013

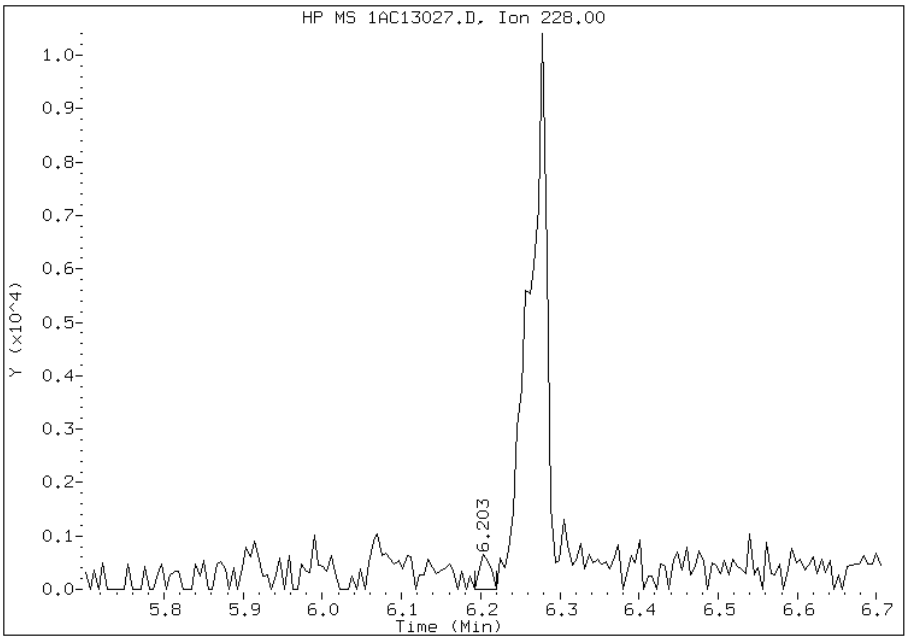
Processing Integration Results

RT: 6.20

Response: 601

Amount: 0

Conc: 17



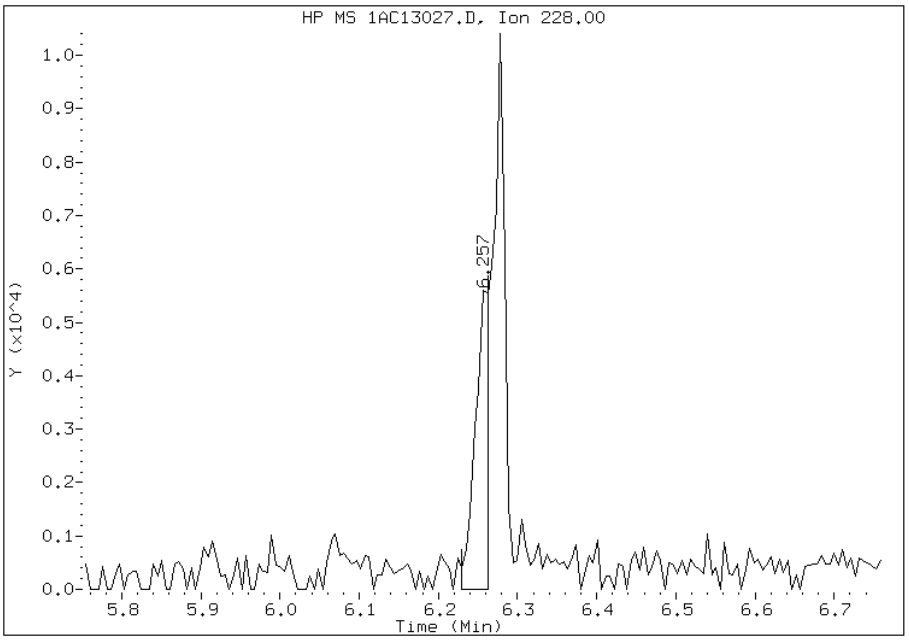
Manual Integration Results

RT: 6.26

Response: 6570

Amount: 0

Conc: 183



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:04
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC13027.D
Inj. Date and Time: 13-MAR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0552B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/15/2013

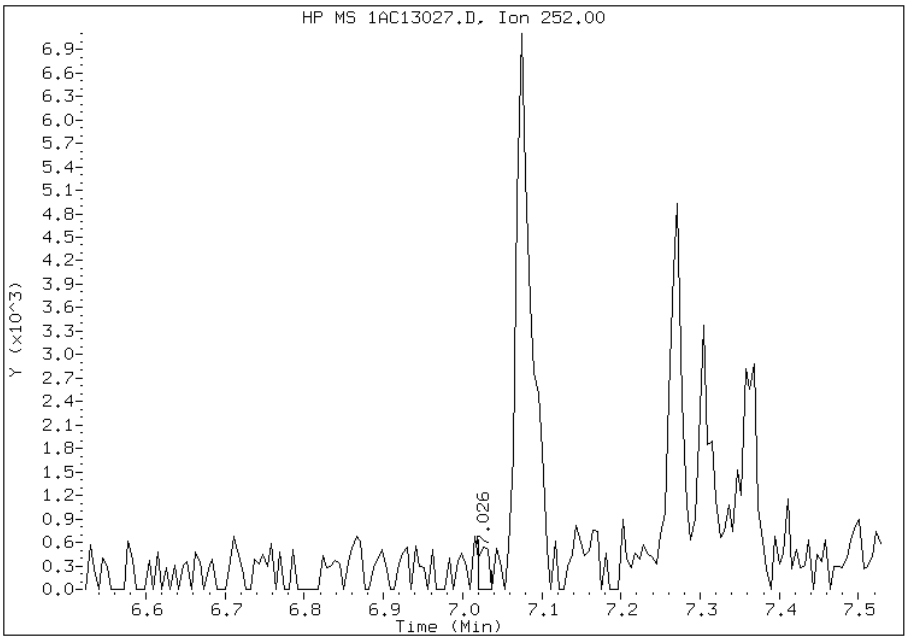
Processing Integration Results

RT: 7.03

Response: 465

Amount: 0

Conc: 11



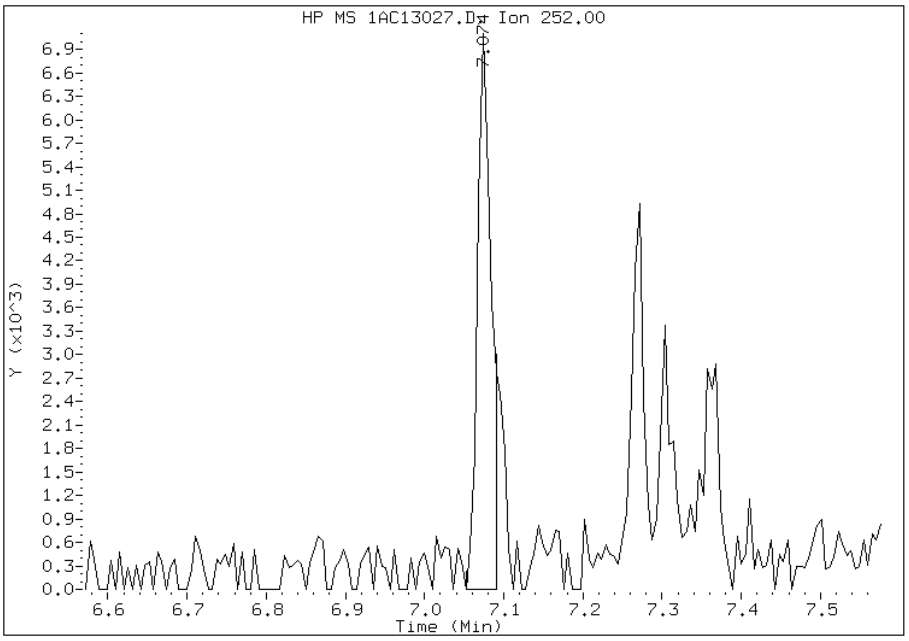
Manual Integration Results

RT: 7.07

Response: 8356

Amount: 1

Conc: 195



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC13027.D
Inj. Date and Time: 13-MAR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0552B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/15/2013

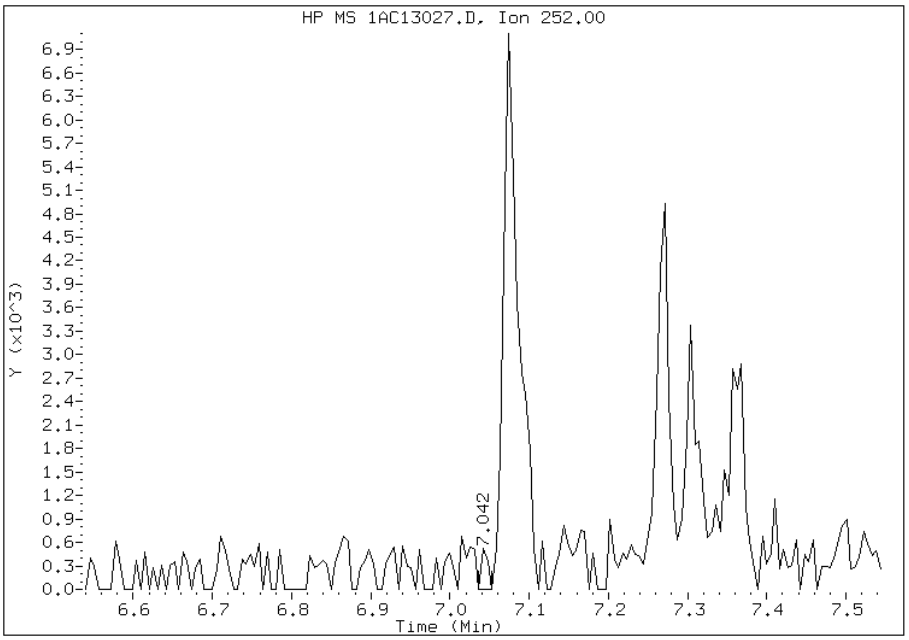
Processing Integration Results

RT: 7.04

Response: 278

Amount: 0

Conc: 6



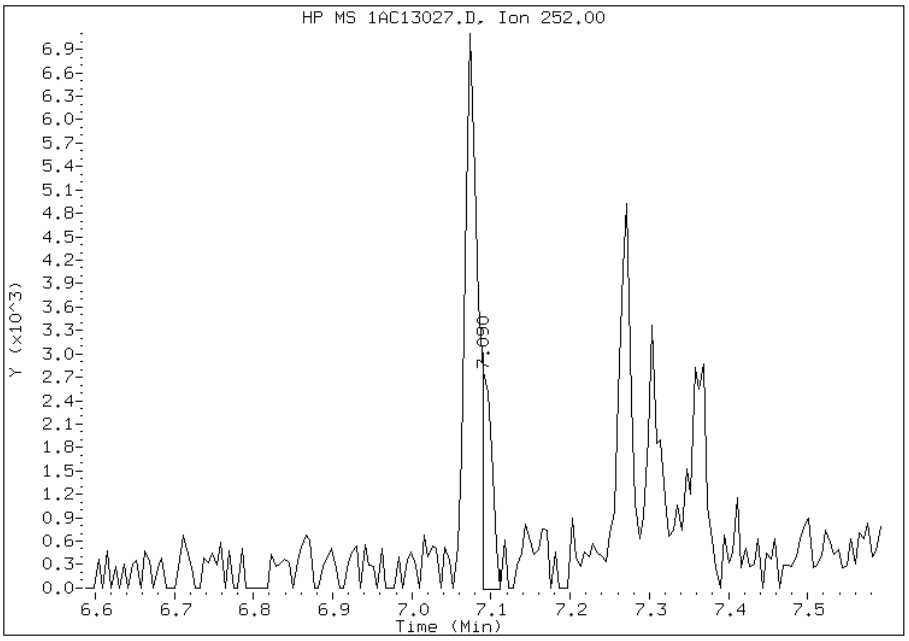
Manual Integration Results

RT: 7.09

Response: 2451

Amount: 0

Conc: 57



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC13027.D
Inj. Date and Time: 13-MAR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0552B-CS-SP
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 03/15/2013

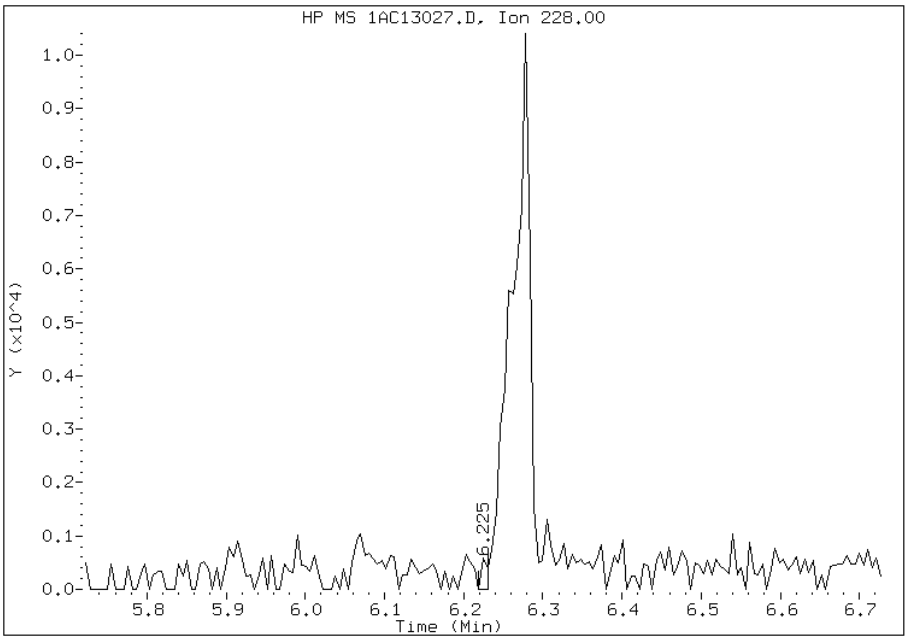
Processing Integration Results

RT: 6.22

Response: 321

Amount: 0

Conc: 10



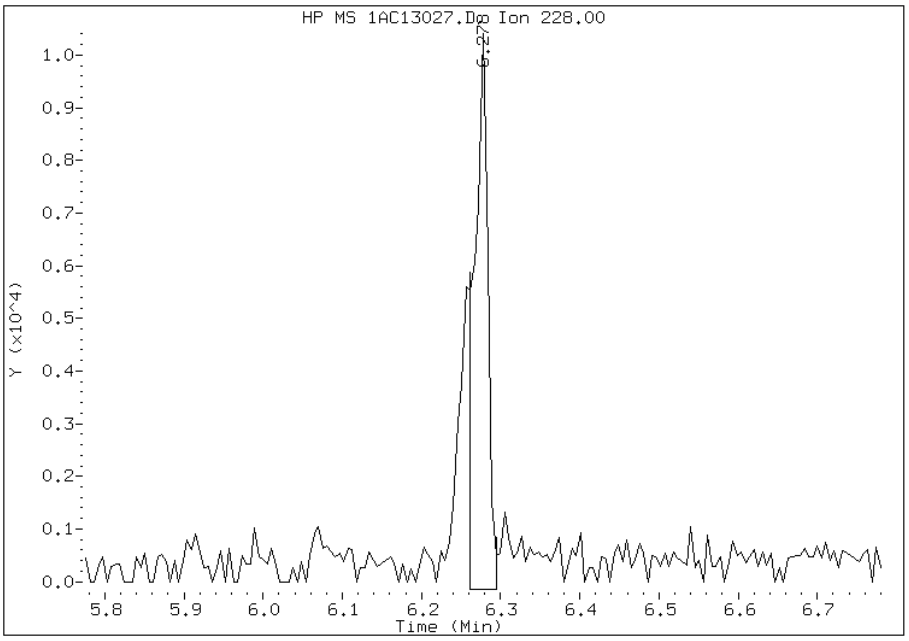
Manual Integration Results

RT: 6.28

Response: 12316

Amount: 1

Conc: 383



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC13027.D
Inj. Date and Time: 13-MAR-2013 17:24
Instrument ID: BSMA5973.i
Client ID: CV0552B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

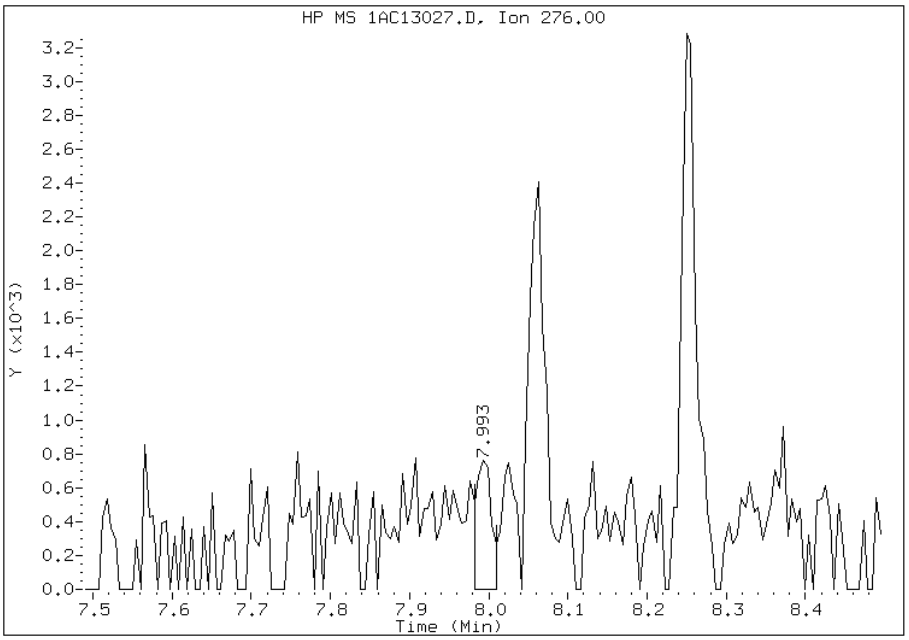
Processing Integration Results

RT: 7.99

Response: 1062

Amount: 0

Conc: 32



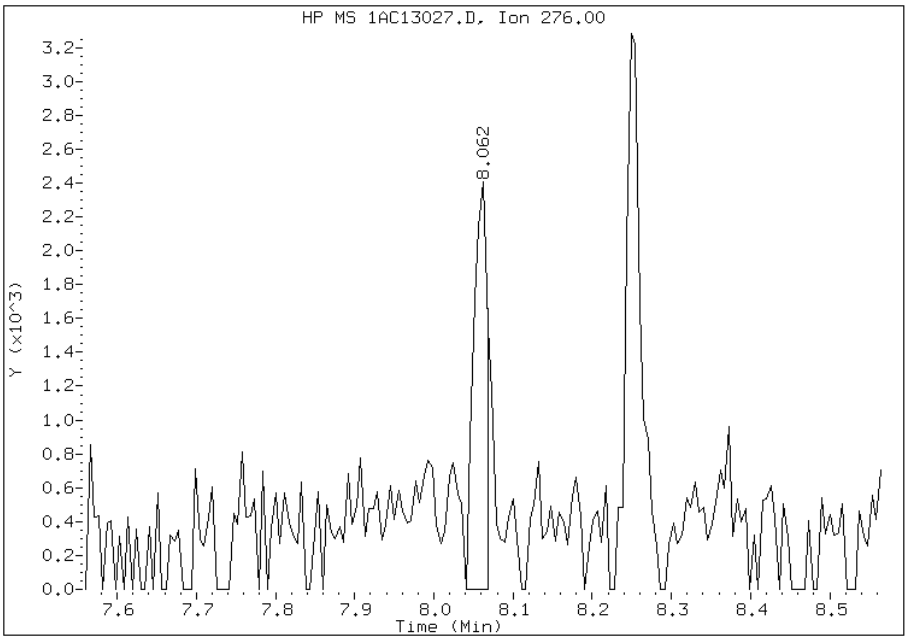
Manual Integration Results

RT: 8.06

Response: 2788

Amount: 0

Conc: 83



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0558A-CS-SP | Lab Sample ID: 680-88067-3

Matrix: Solid | Lab File ID: 1CC12014.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 08:53

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

Sample wt/vol: 14.98(g) | Date Analyzed: 03/12/2013 16:11

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

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

% Moisture: 36.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	9.6	J	63	7.9
120-12-7	Anthracene	47		13	6.6
56-55-3	Benzo[a]anthracene	400		13	6.2
50-32-8	Benzo[a]pyrene	430		16	8.2
205-99-2	Benzo[b]fluoranthene	750		19	9.6
191-24-2	Benzo[g,h,i]perylene	340		32	7.0
207-08-9	Benzo[k]fluoranthene	290		13	5.7
218-01-9	Chrysene	420		14	7.1
53-70-3	Dibenz(a,h)anthracene	110		32	6.5
206-44-0	Fluoranthene	570		32	6.3
86-73-7	Fluorene	20	J	32	6.5
193-39-5	Indeno[1,2,3-cd]pyrene	270		32	11
90-12-0	1-Methylnaphthalene	36	J	63	7.0
91-57-6	2-Methylnaphthalene	34	J	63	11
91-20-3	Naphthalene	45	J	63	7.0
85-01-8	Phenanthrene	290		13	6.2
129-00-0	Pyrene	520		32	5.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12014.D
Lab Smp Id: 680-88067-A-3-A Client Smp ID: CV0558A-CS-SP
Inj Date : 12-MAR-2013 16:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-3-a
Misc Info : 680-88067-A-3-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: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	36.654	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1316247	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1057699	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1912405	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	175103	6.06437	639.0807
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2066833	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	1975118	40.0000	
	2 Naphthalene	128	3.775	3.774	(1.003)	14567	0.42510	44.7987(Q)
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	7365	0.32221	33.9557
	4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	7119	0.34197	36.0375
	5 Acenaphthylene	152	4.769	4.763	(0.983)	3874	0.09085	9.5737
	9 Fluorene	166	5.192	5.192	(1.070)	6416	0.19141	20.1708
	11 Phenanthrene	178	5.816	5.815	(1.002)	150585	2.72314	286.9722
	12 Anthracene	178	5.851	5.851	(1.008)	23873	0.44143	46.5188
	13 Carbazole	167	5.957	5.957	(1.026)	21699	0.45136	47.5657

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	325859	5.38091	567.0558
16 Pyrene	202	6.821	6.827	(0.881)	272340	4.90321	516.7146
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	226466	3.79640	400.0756
19 Chrysene	228	7.763	7.768	(1.002)	238579	3.99646	421.1582
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	367381	7.11742	750.0537(M)
21 Benzo(k)fluoranthene	252	8.610	8.615	(0.963)	145039	2.73911	288.6548(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	203929	4.06742	428.6363
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	121100	2.56759	270.5797(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	46474	1.00737	106.1597
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	158981	3.22225	339.5703

QC Flag Legend

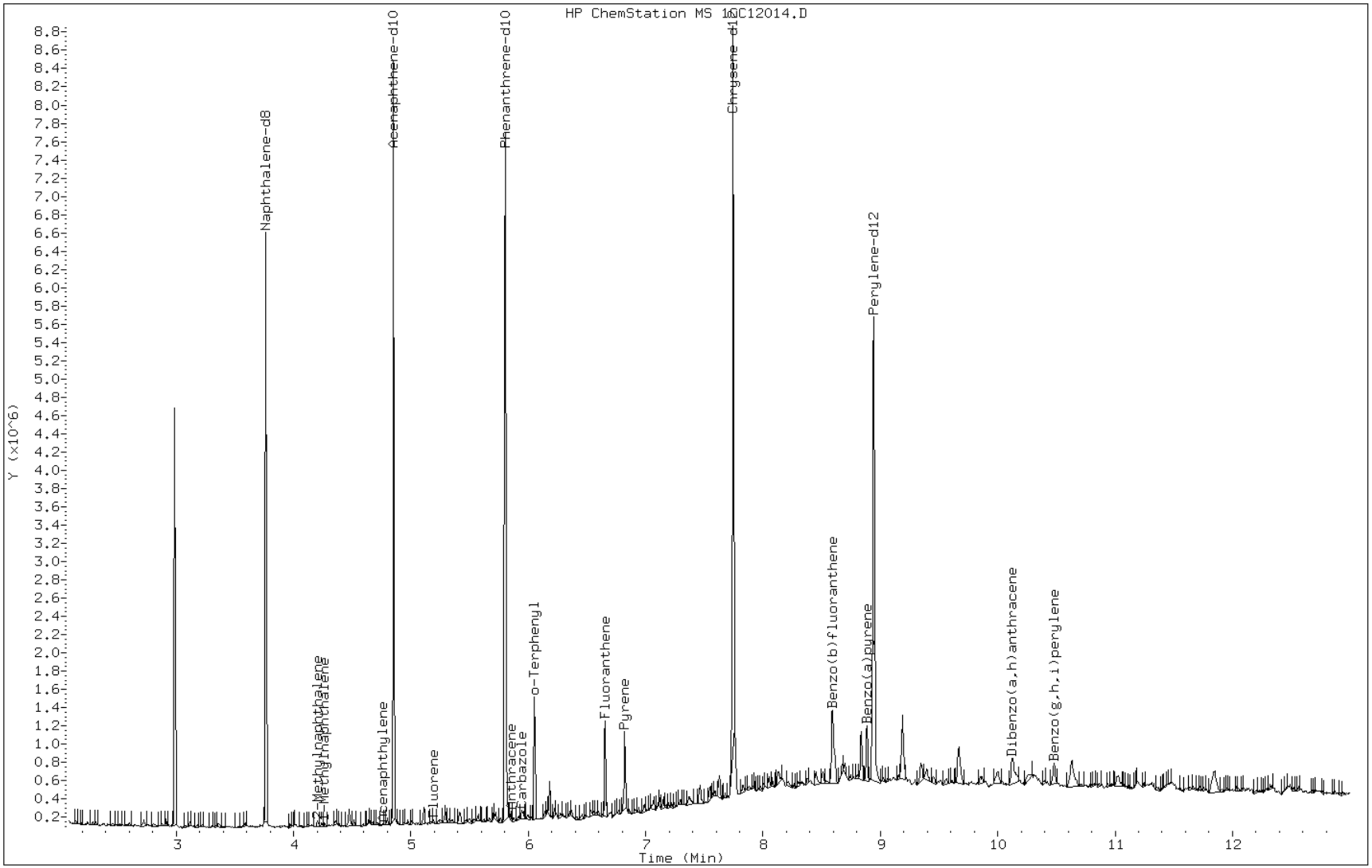
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC



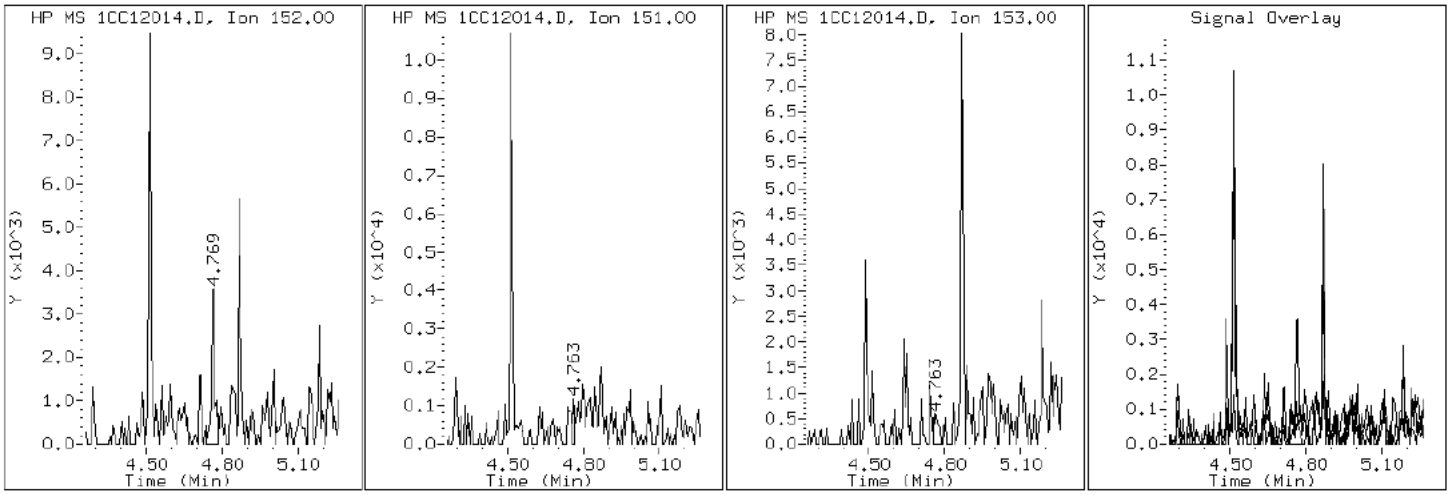
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

5 Acenaphthylene



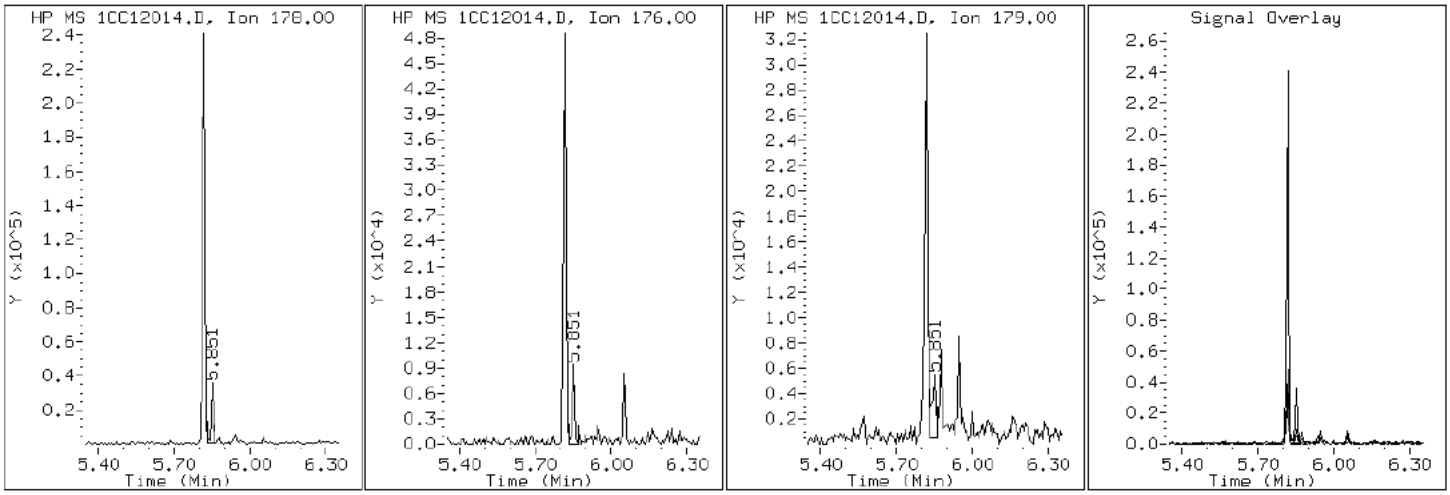
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

12 Anthracene



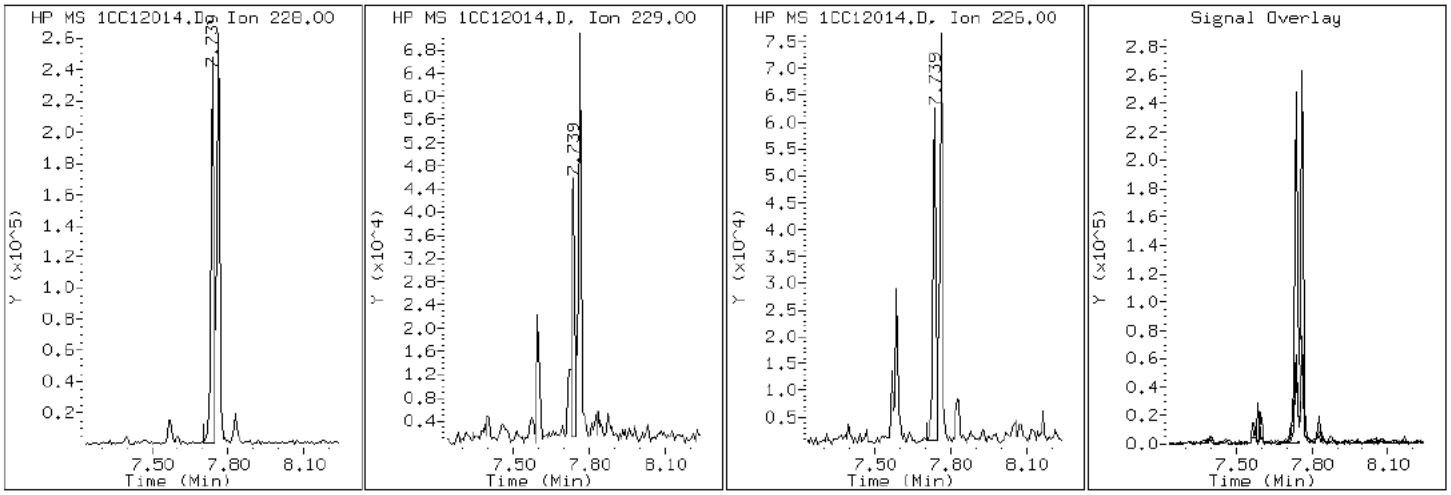
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

17 Benzo(a)anthracene



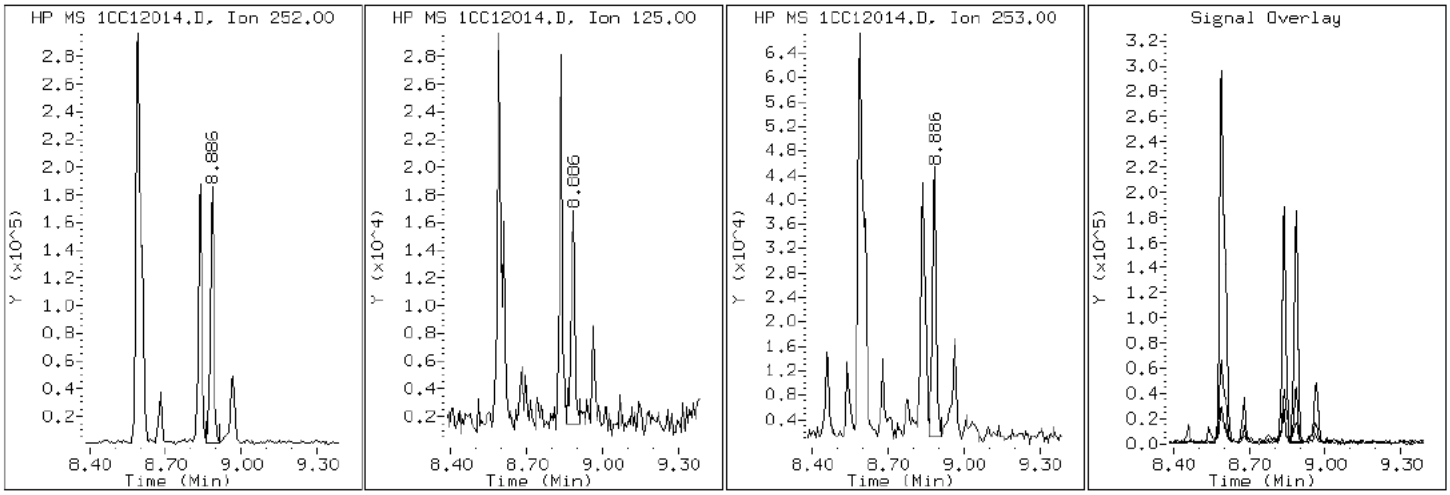
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

22 Benzo(a)pyrene



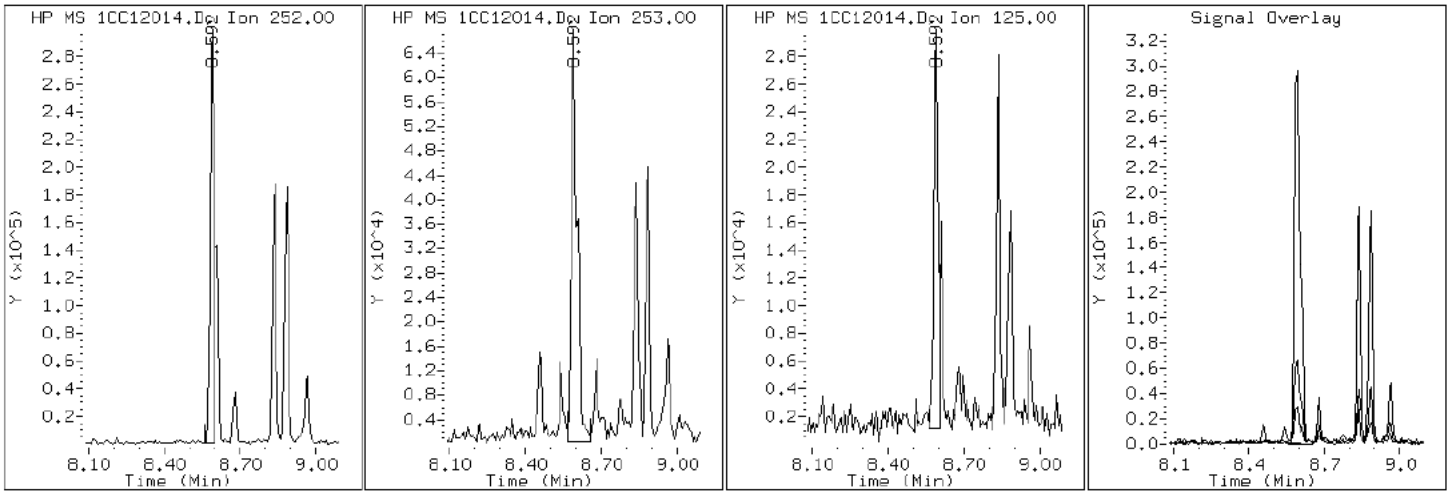
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



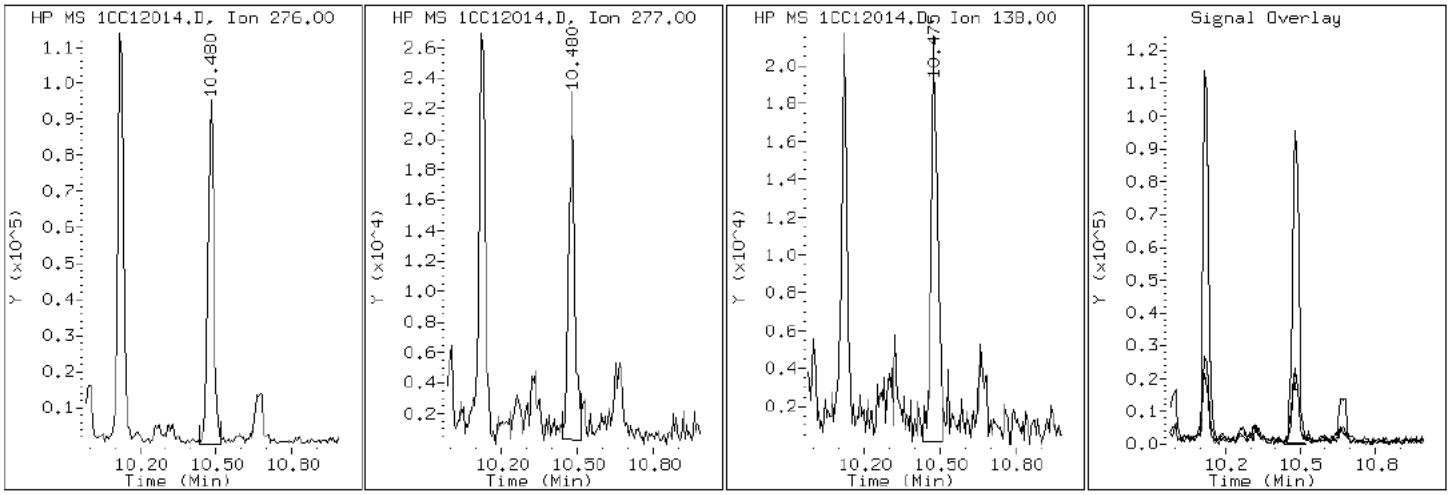
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



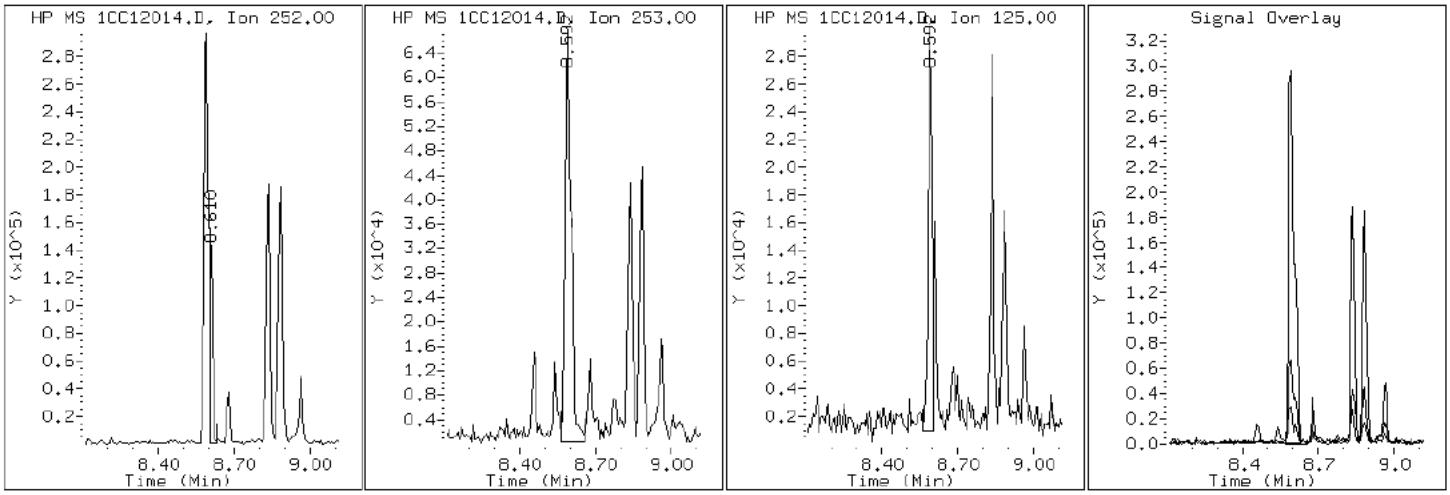
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



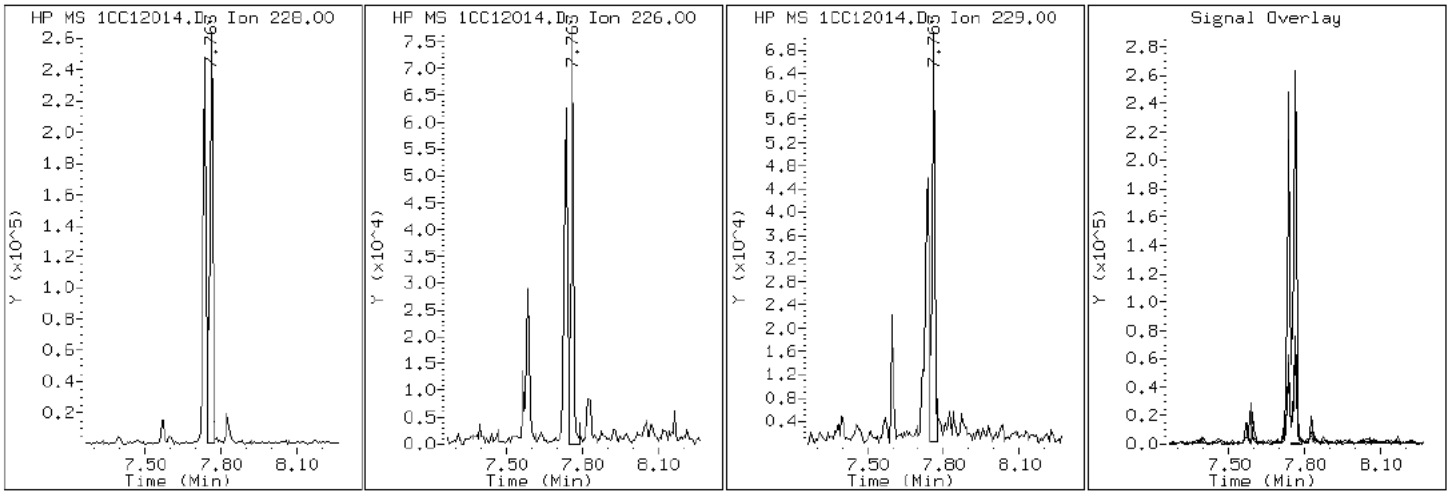
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

19 Chrysene



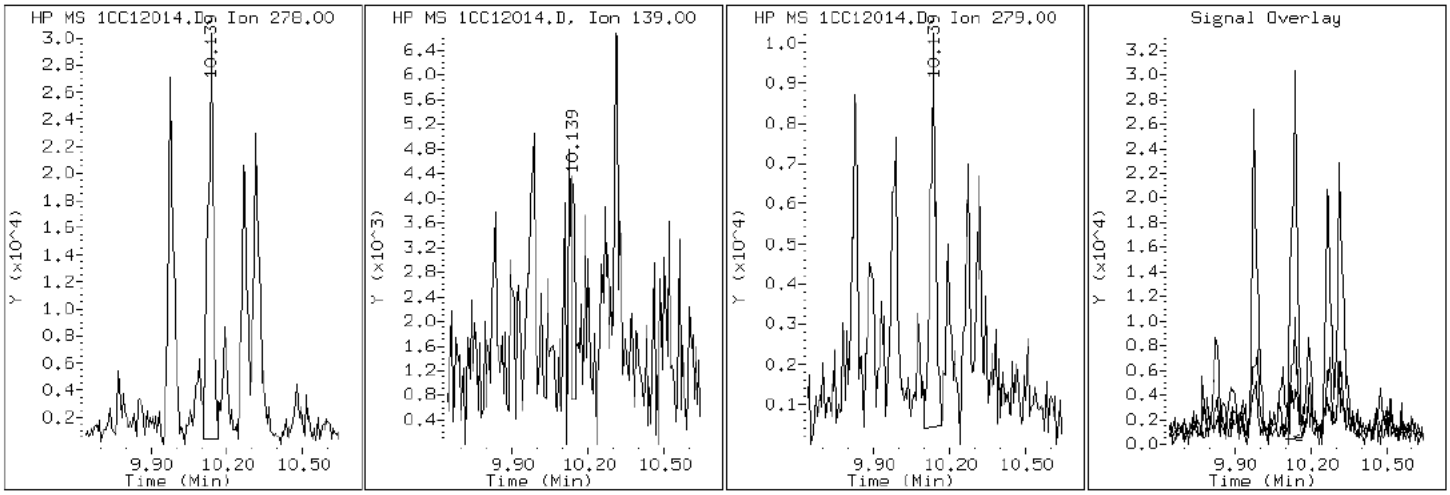
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



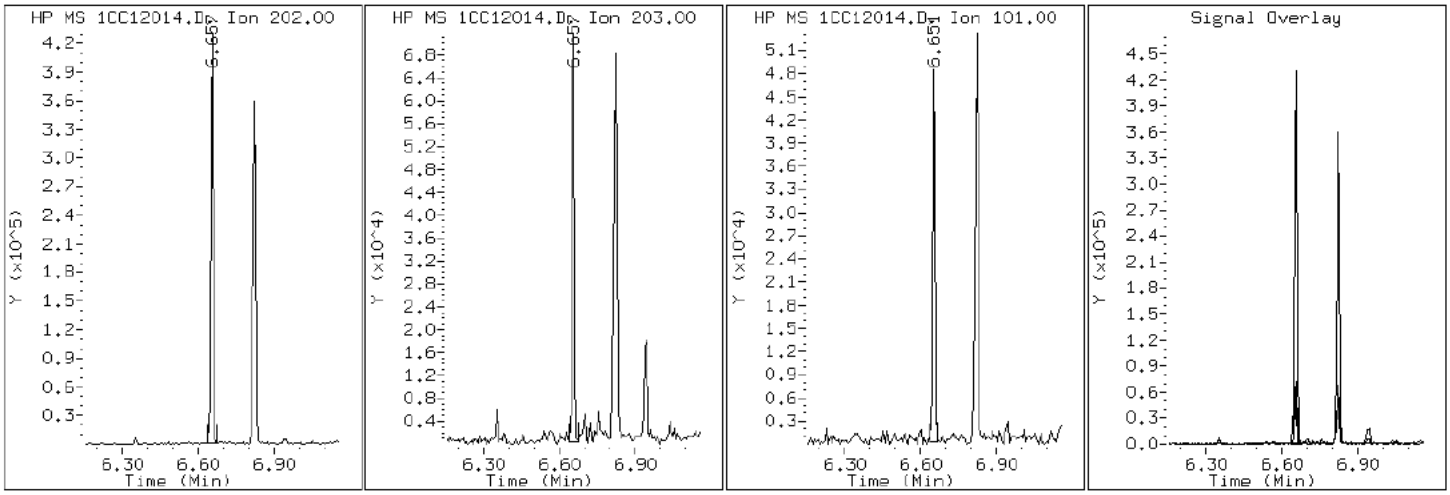
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

15 Fluoranthene



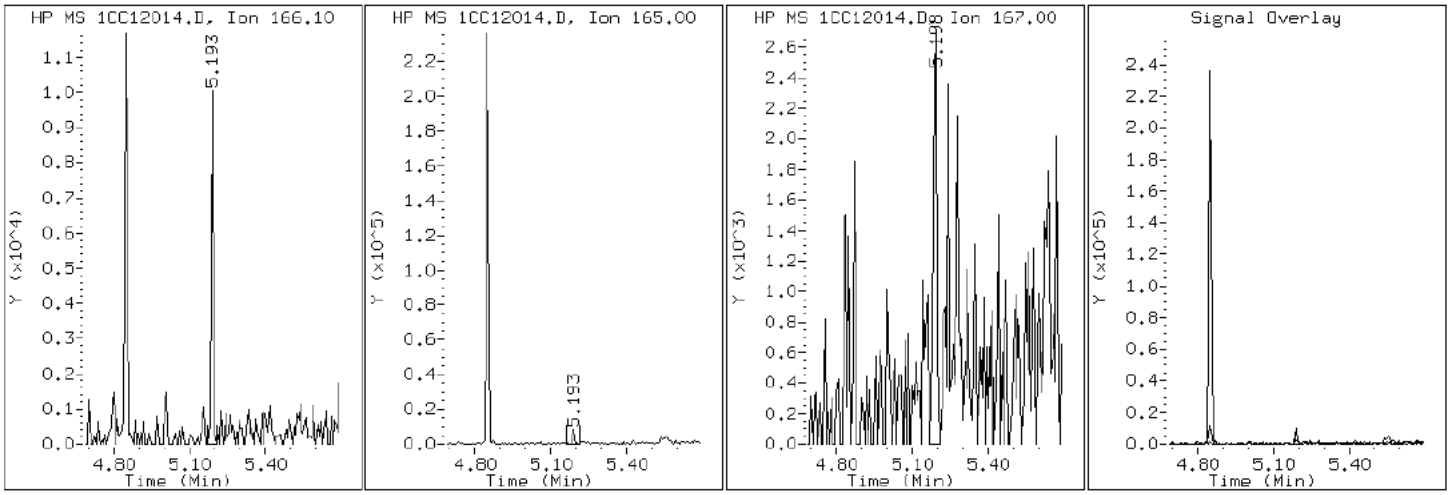
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

9 Fluorene



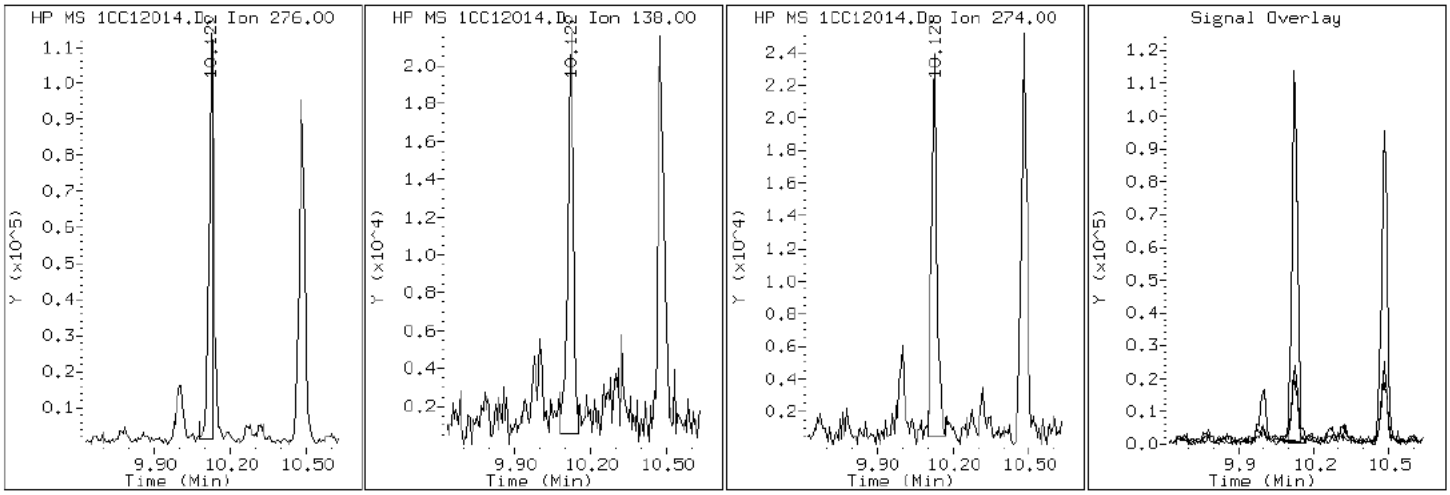
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

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



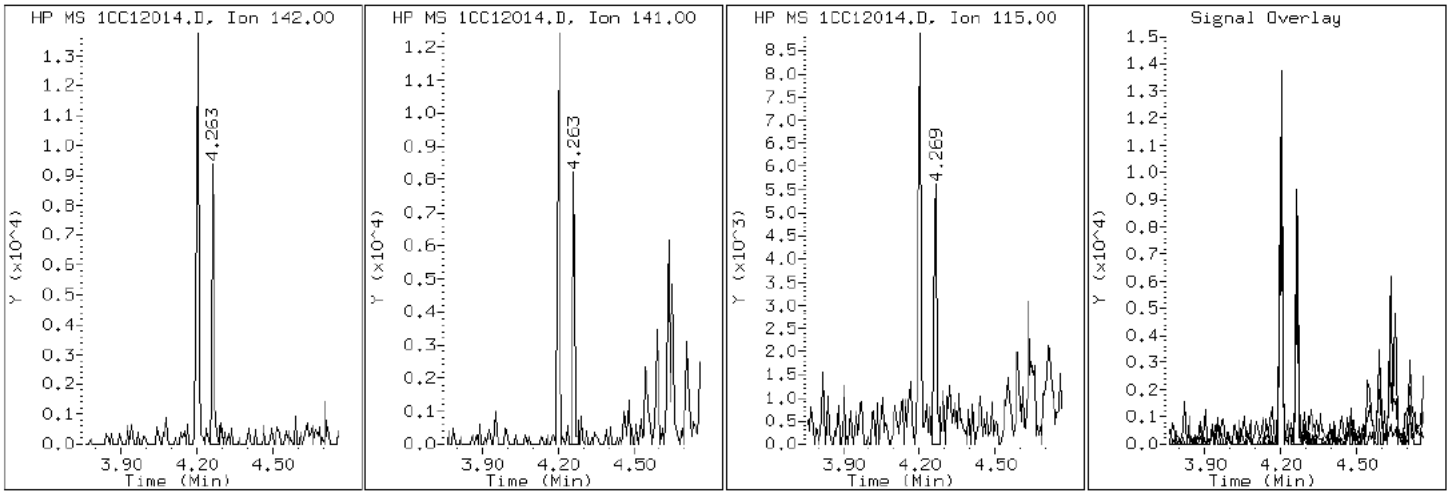
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

4 1-Methylnaphthalene



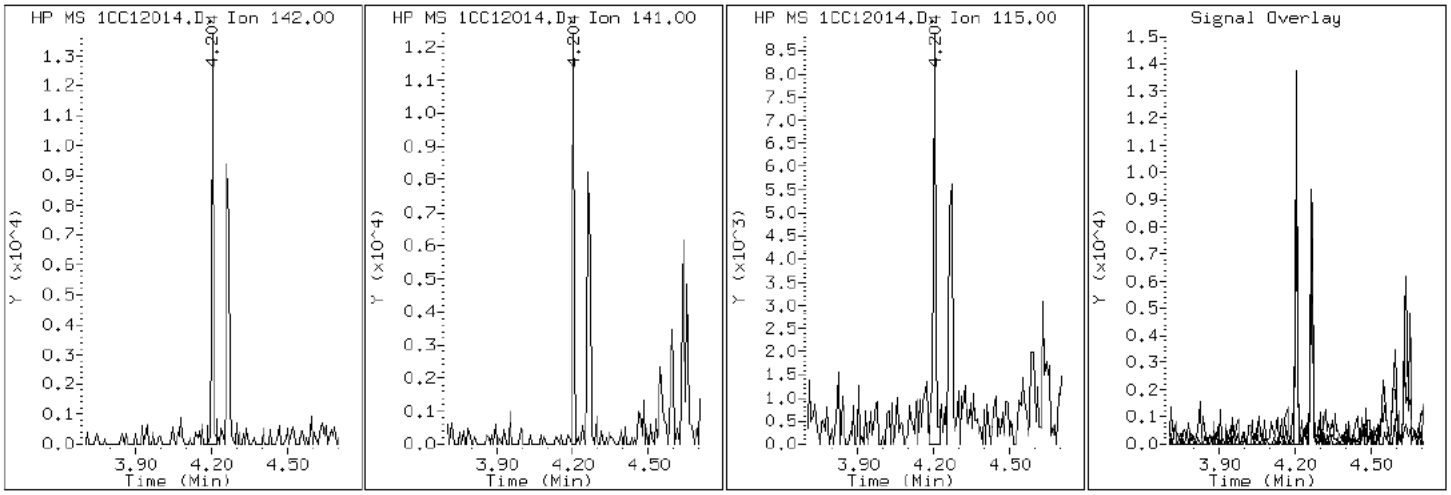
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

3 2-Methylnaphthalene



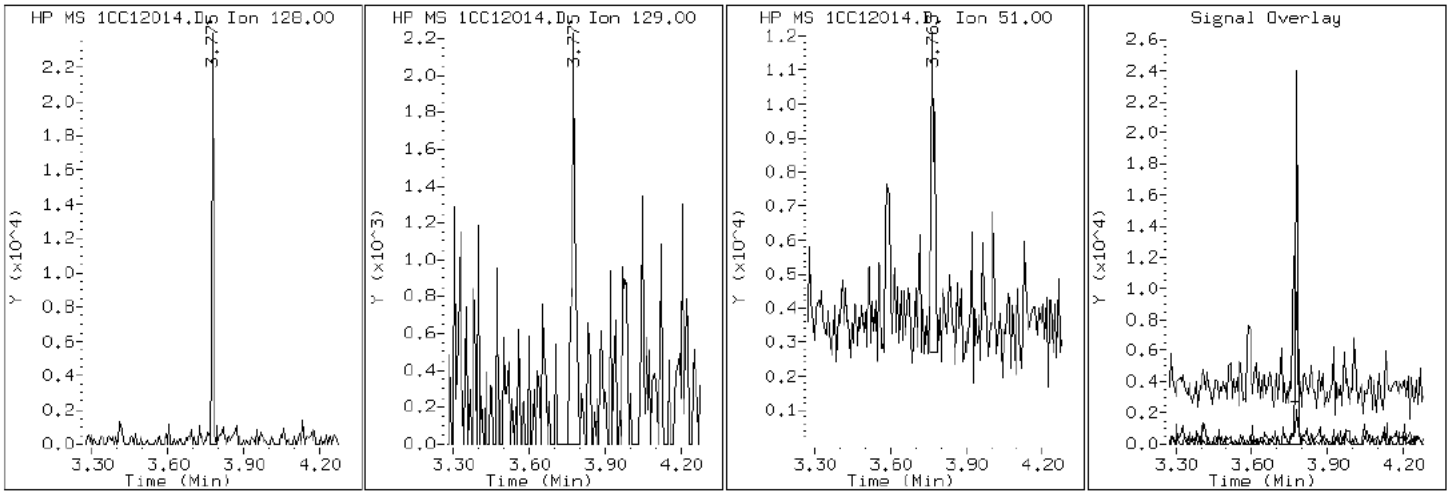
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

2 Naphthalene



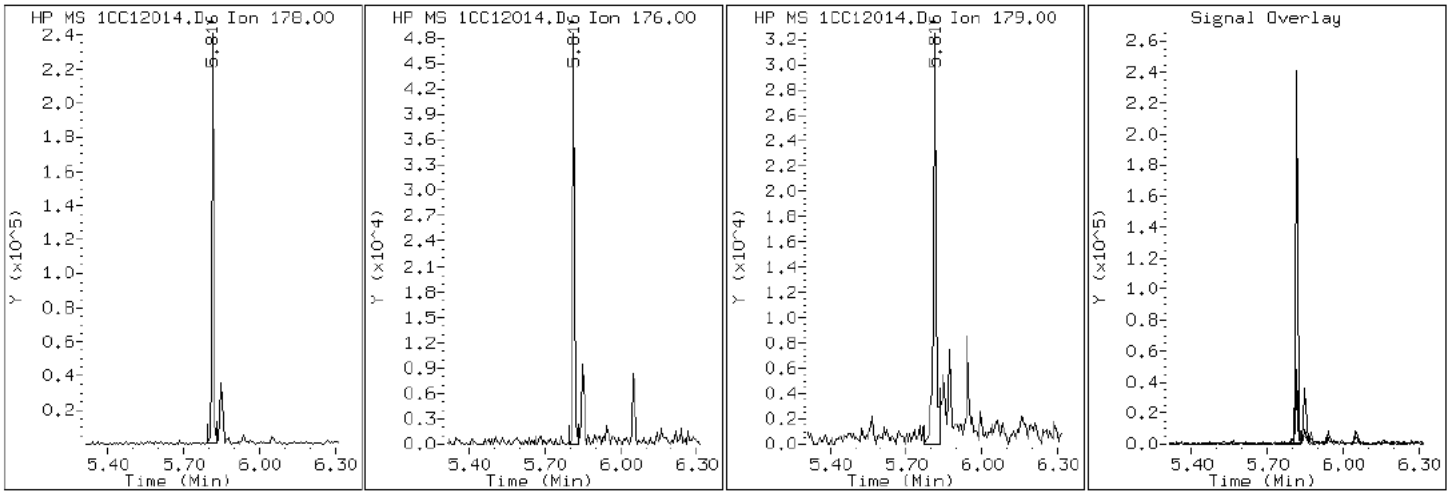
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

11 Phenanthrene



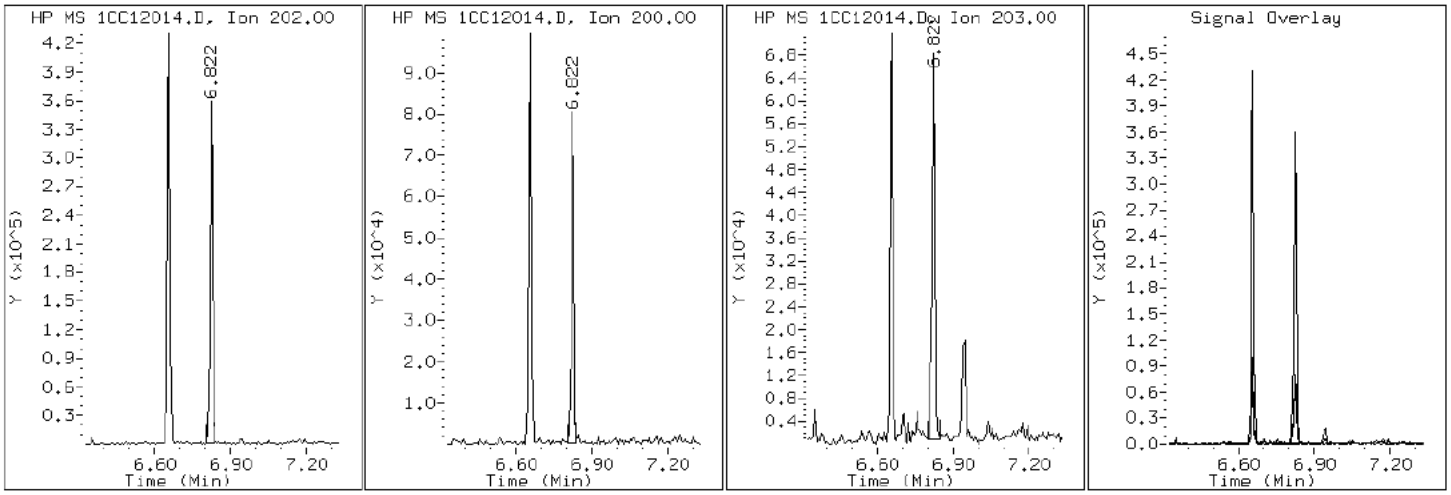
Data File: 1CC12014.D

Date: 12-MAR-2013 16:11

Client ID: CV0558A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12014.D
Inj. Date and Time: 12-MAR-2013 16:11
Instrument ID: BSMC5973.i
Client ID: CV0558A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

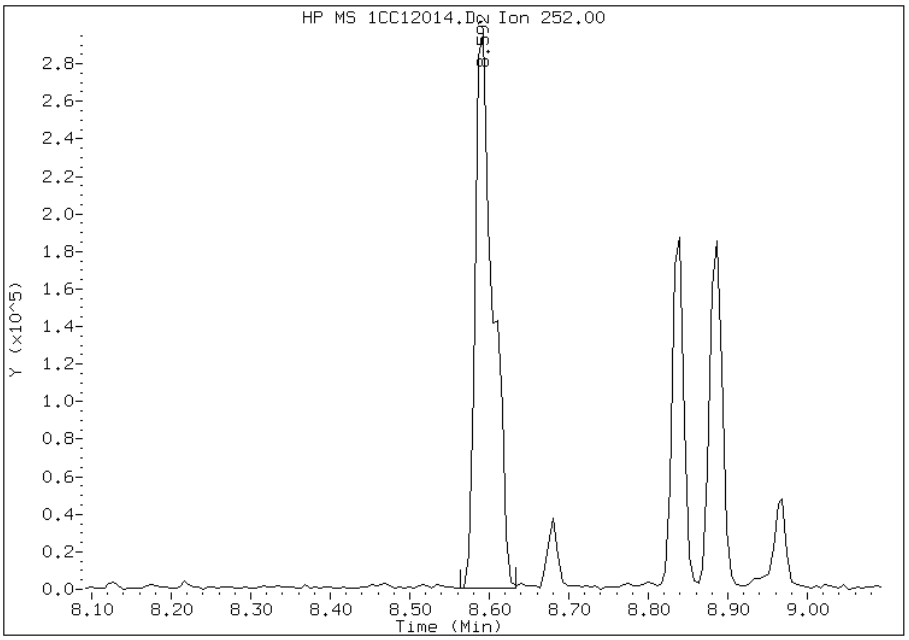
Processing Integration Results

RT: 8.59

Response: 462923

Amount: 9

Conc: 945



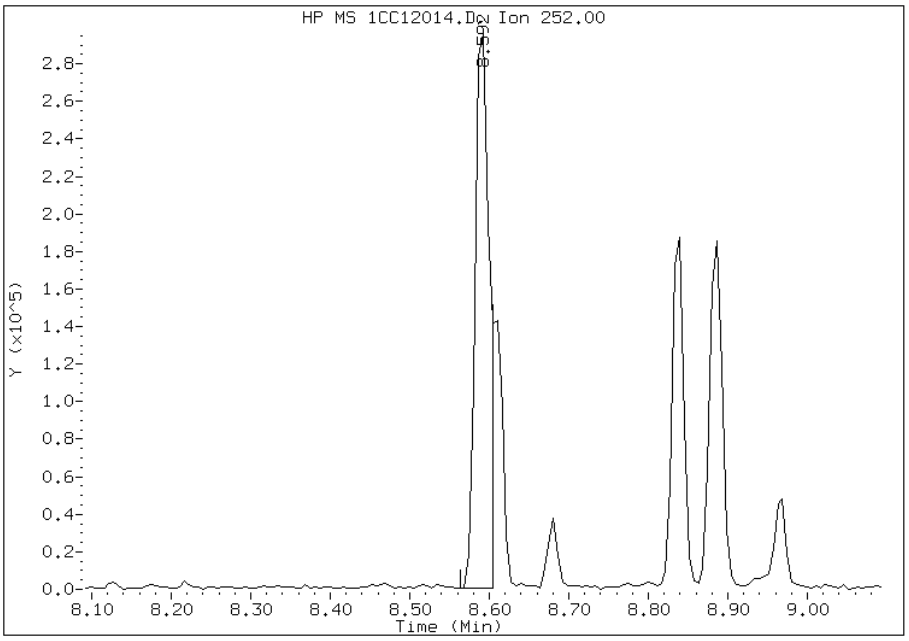
Manual Integration Results

RT: 8.59

Response: 367381

Amount: 7

Conc: 750



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12014.D
Inj. Date and Time: 12-MAR-2013 16:11
Instrument ID: BSMC5973.i
Client ID: CV0558A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

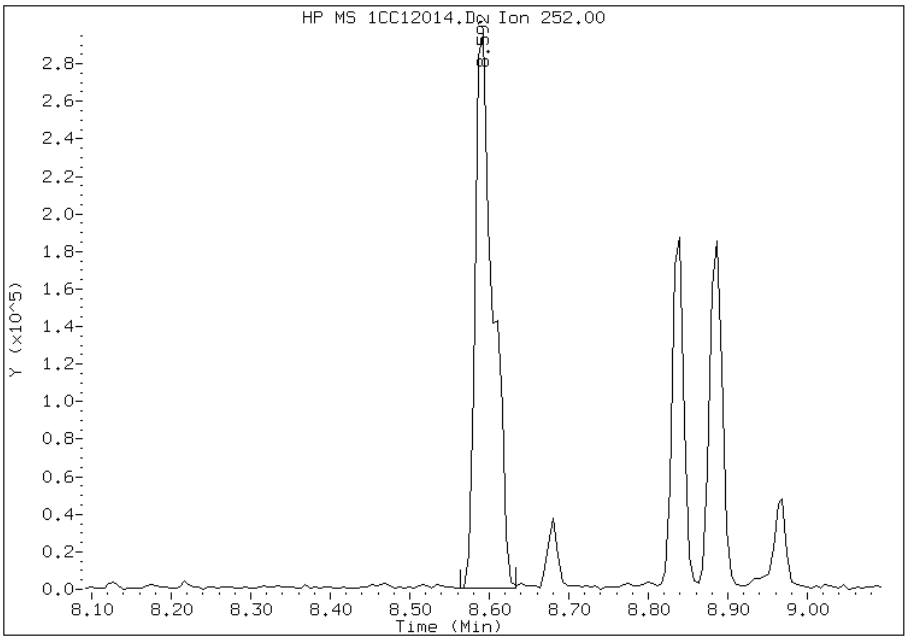
Processing Integration Results

RT: 8.59

Response: 461959

Amount: 9

Conc: 919



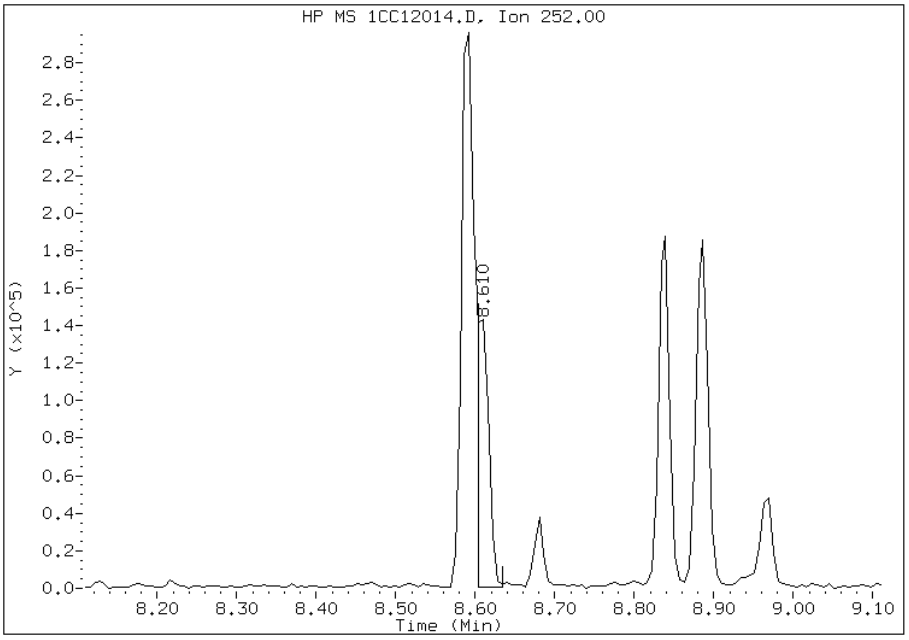
Manual Integration Results

RT: 8.61

Response: 145039

Amount: 3

Conc: 289



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12014.D
Inj. Date and Time: 12-MAR-2013 16:11
Instrument ID: BSMC5973.i
Client ID: CV0558A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

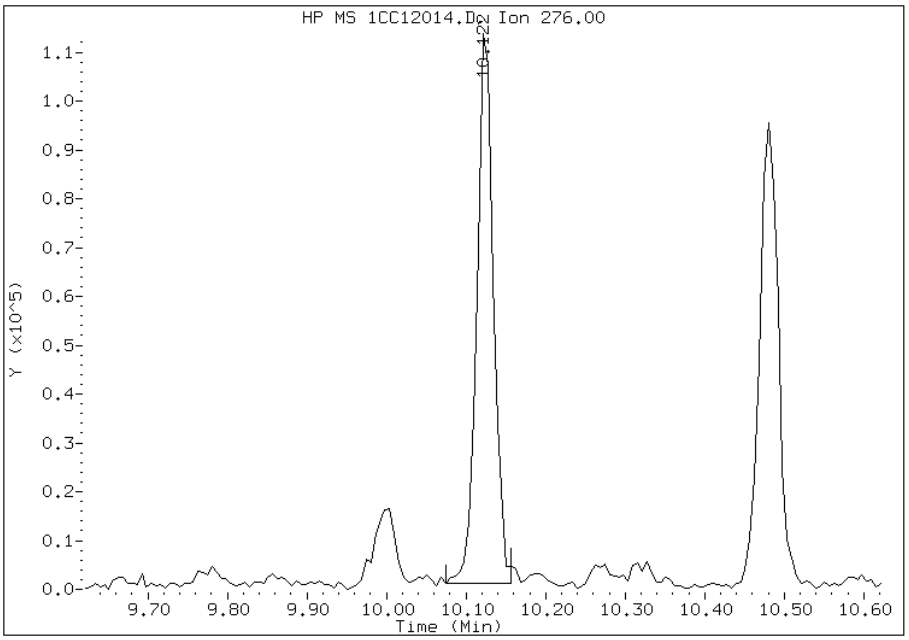
Processing Integration Results

RT: 10.12

Response: 162346

Amount: 3

Conc: 363



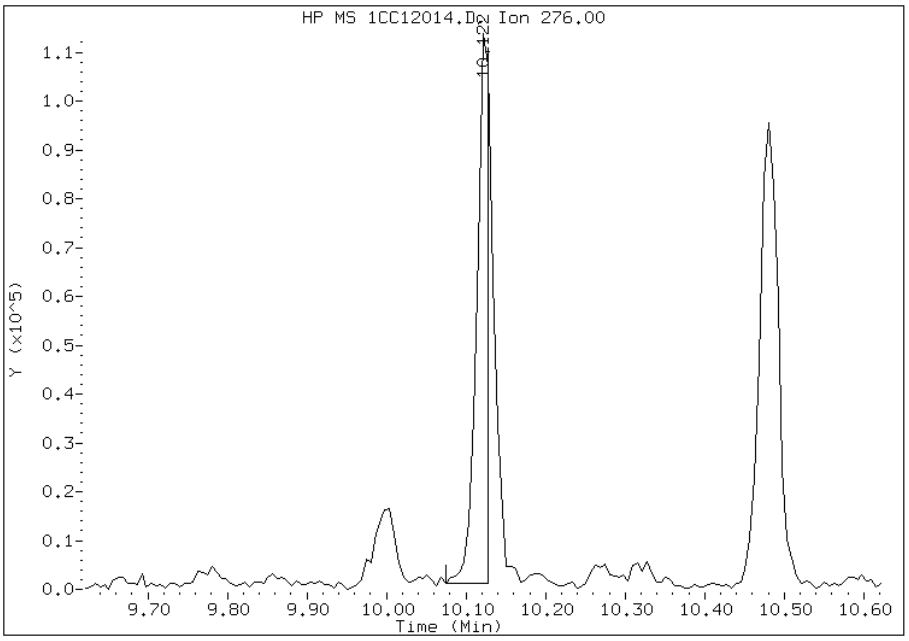
Manual Integration Results

RT: 10.12

Response: 121100

Amount: 3

Conc: 271



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0558B-CS-SP | Lab Sample ID: 680-88067-4

Matrix: Solid | Lab File ID: 1CC12015.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 09:05

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

Sample wt/vol: 14.98(g) | Date Analyzed: 03/12/2013 16:30

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

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

% Moisture: 37.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	64	U	64	8.0
120-12-7	Anthracene	14	U	14	6.8
56-55-3	Benzo[a]anthracene	28		13	6.3
50-32-8	Benzo[a]pyrene	20		17	8.4
205-99-2	Benzo[b]fluoranthene	32		20	9.8
191-24-2	Benzo[g,h,i]perylene	17	J	32	7.1
207-08-9	Benzo[k]fluoranthene	17		13	5.8
218-01-9	Chrysene	24		14	7.2
53-70-3	Dibenz(a,h)anthracene	32	U	32	6.6
206-44-0	Fluoranthene	26	J	32	6.4
86-73-7	Fluorene	32	U	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	15	J	32	11
90-12-0	1-Methylnaphthalene	9.6	J	64	7.1
91-57-6	2-Methylnaphthalene	12	J	64	11
91-20-3	Naphthalene	26	J	64	7.1
85-01-8	Phenanthrene	25		13	6.3
129-00-0	Pyrene	28	J	32	6.0

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\1C031213.b\1CC12015.D
Lab Smp Id: 680-88067-A-4-A Client Smp ID: CV0558B-CS-SP
Inj Date : 12-MAR-2013 16:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-4-a
Misc Info : 680-88067-A-4-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: 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	14.980	Weight Extracted
M	37.788	% 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

							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1306696	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1051842	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1964145	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	193104	6.51163	698.7212
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2151821	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	2037508	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	8342	0.24522	26.3131(Q)
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	2576	0.11352	12.1813(Q)
	4 1-Methylnaphthalene	142	4.268	4.263	(1.134)	1852	0.08961	9.6157(Q)
	11 Phenanthrene	178	5.815	5.815	(1.002)	13422	0.23633	25.3586
	15 Fluoranthene	202	6.656	6.657	(1.147)	15039	0.24180	25.9457
	16 Pyrene	202	6.827	6.827	(0.882)	14840	0.25663	27.5370
	17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	16346	0.26320	28.2419(M)
	19 Chrysene	228	7.762	7.768	(1.002)	13801	0.22205	23.8268

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	8.598	8.592	(0.961)	15761	0.29599	31.7612(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	8829	0.16163	17.3437
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	9586	0.18534	19.8877
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	6808	0.13992	15.0144(M)
26 Benzo(g,h,i)perylene	276	10.468	10.486	(1.170)	7994	0.15706	16.8533(M)

QC Flag Legend

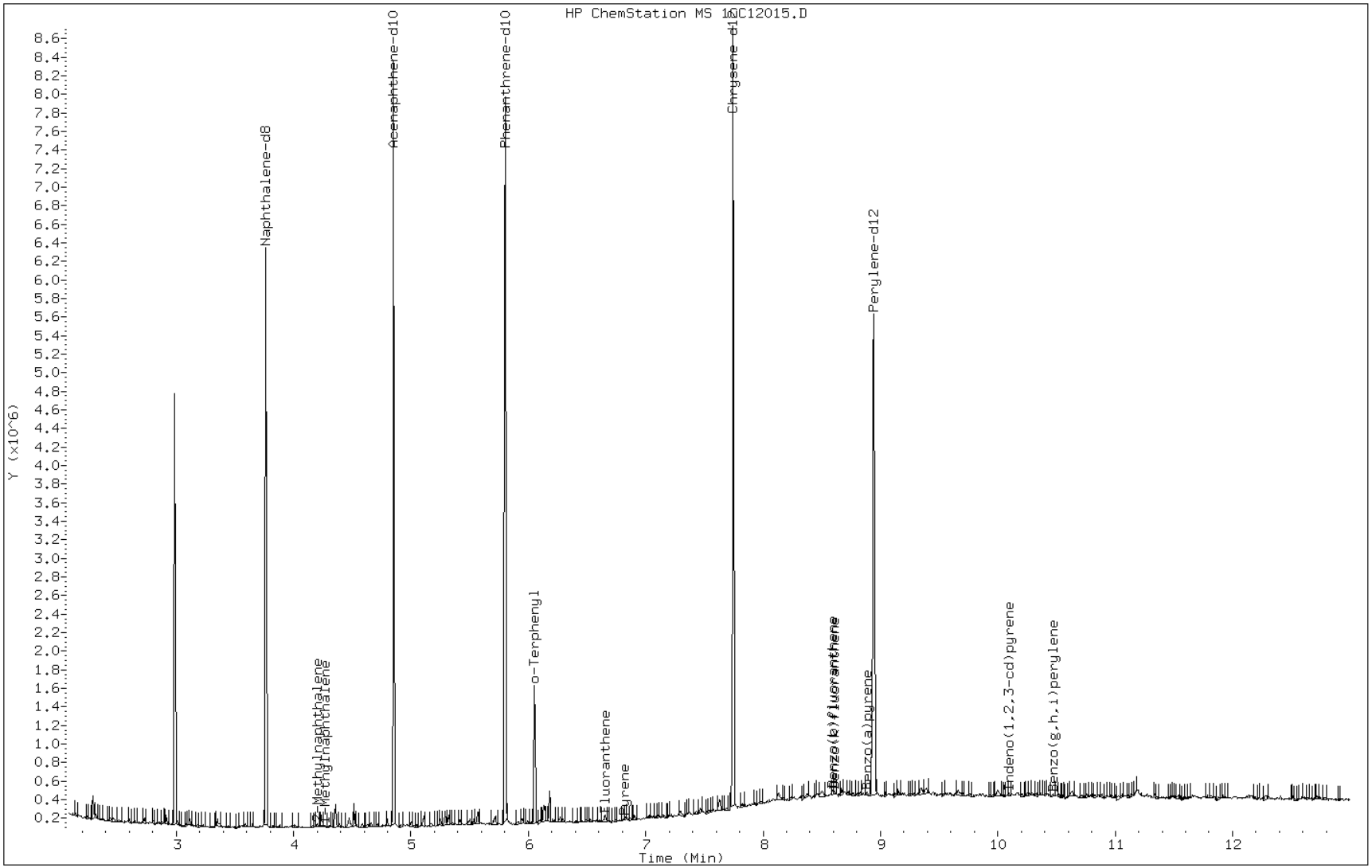
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC



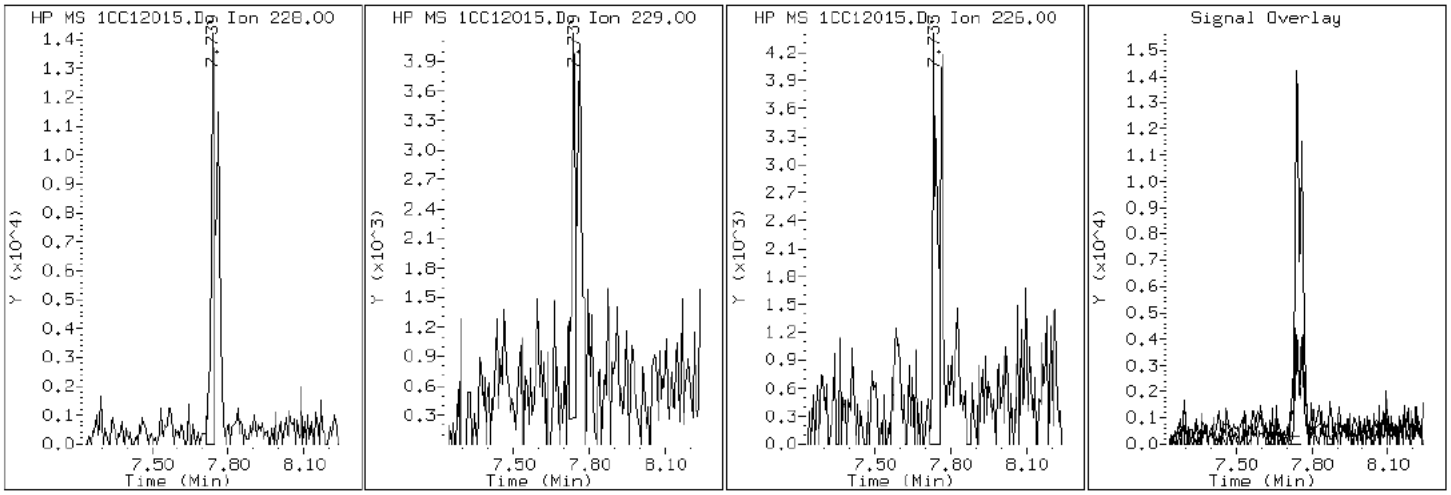
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

17 Benzo(a)anthracene



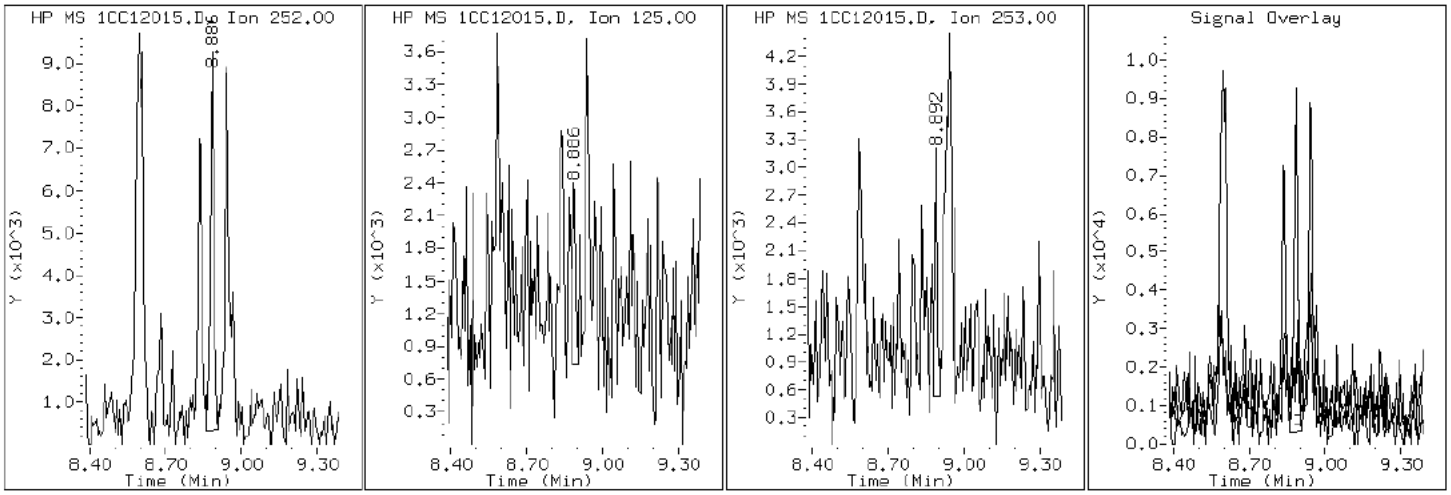
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

22 Benzo(a)pyrene



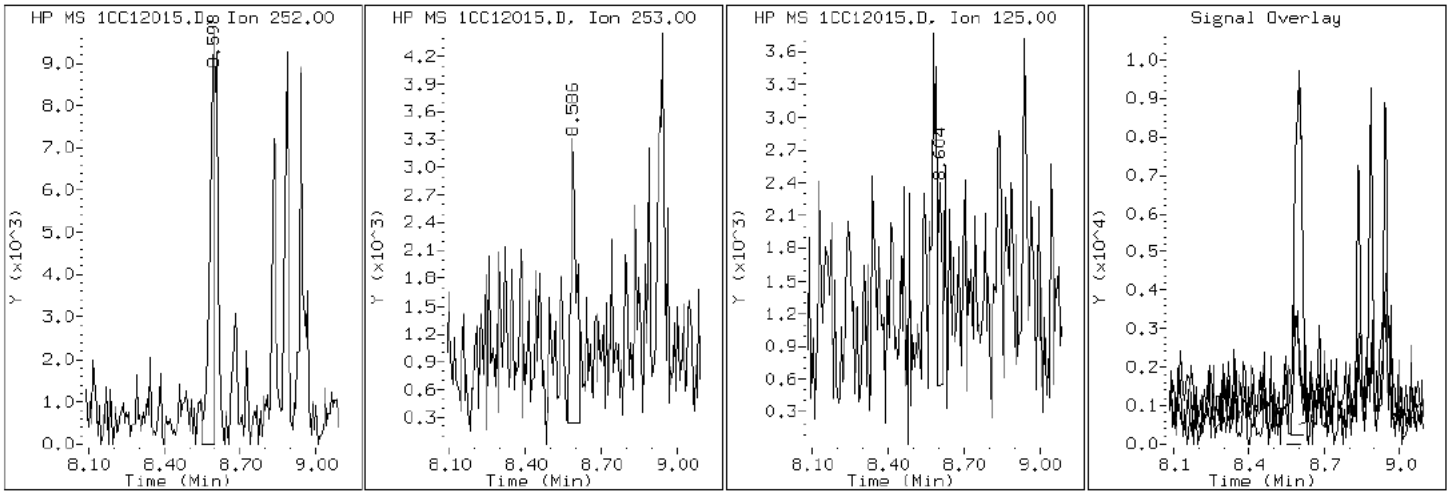
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



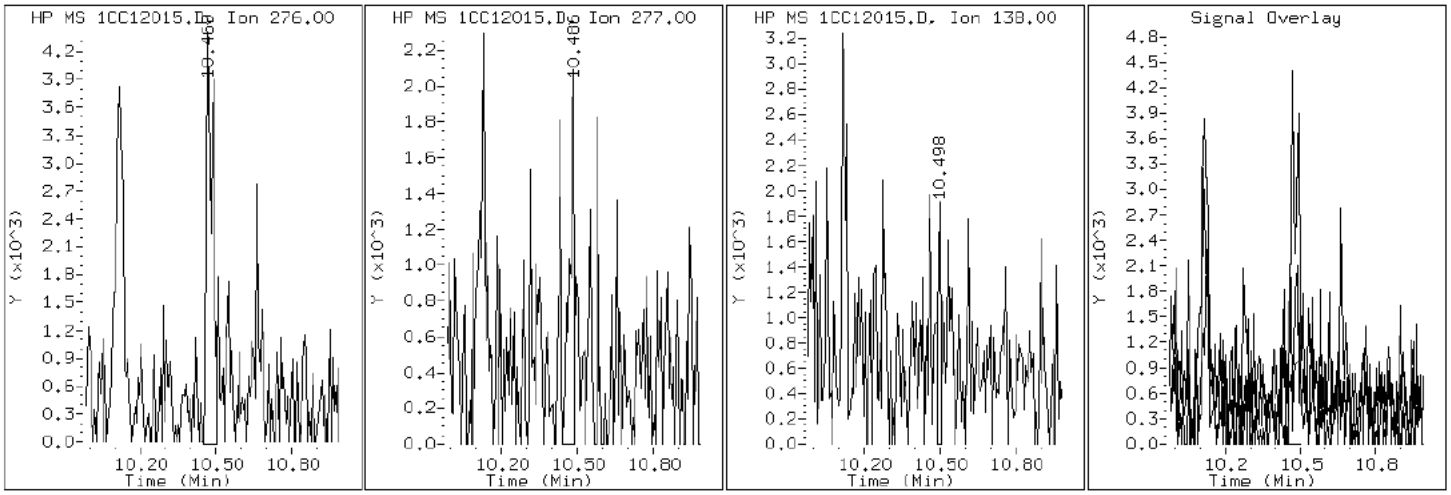
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



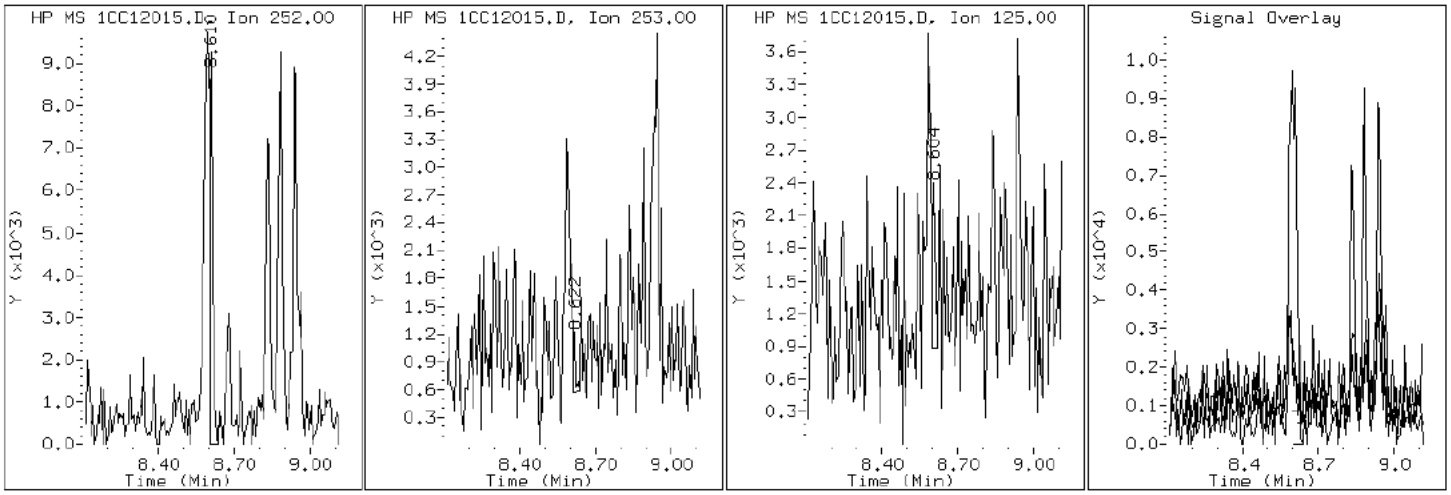
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



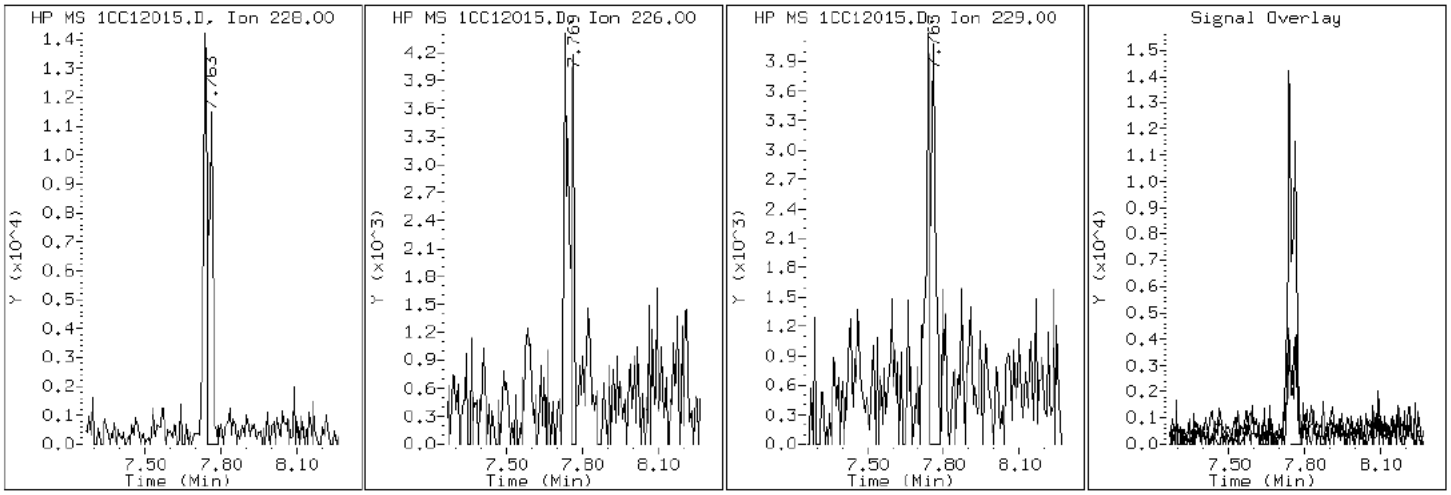
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

19 Chrysene



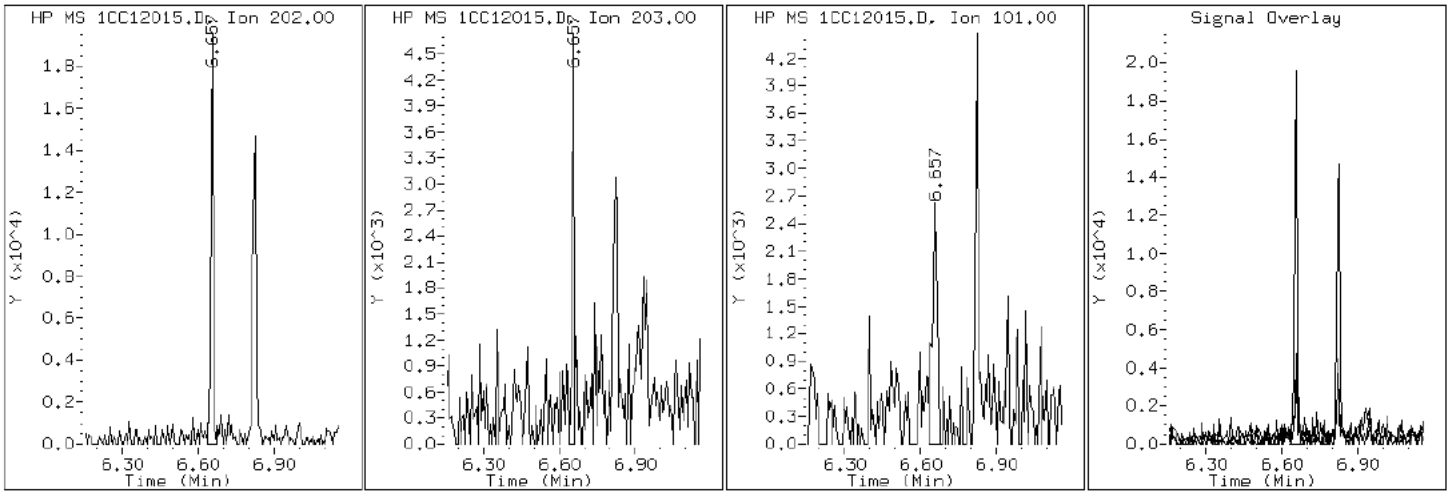
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

15 Fluoranthene



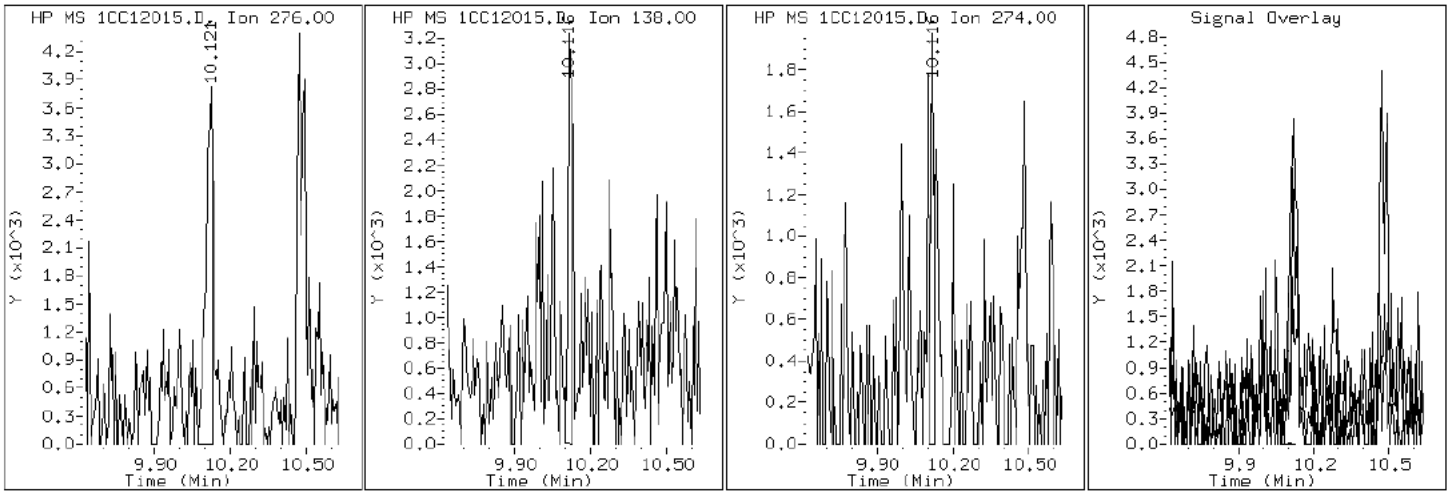
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

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



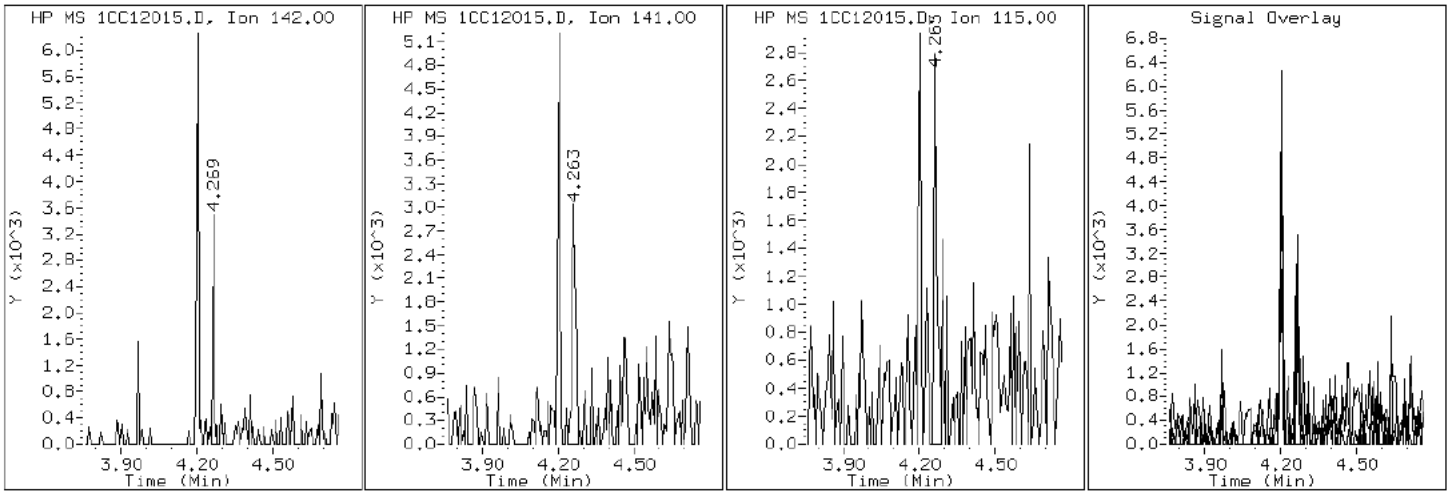
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

4 1-Methylnaphthalene



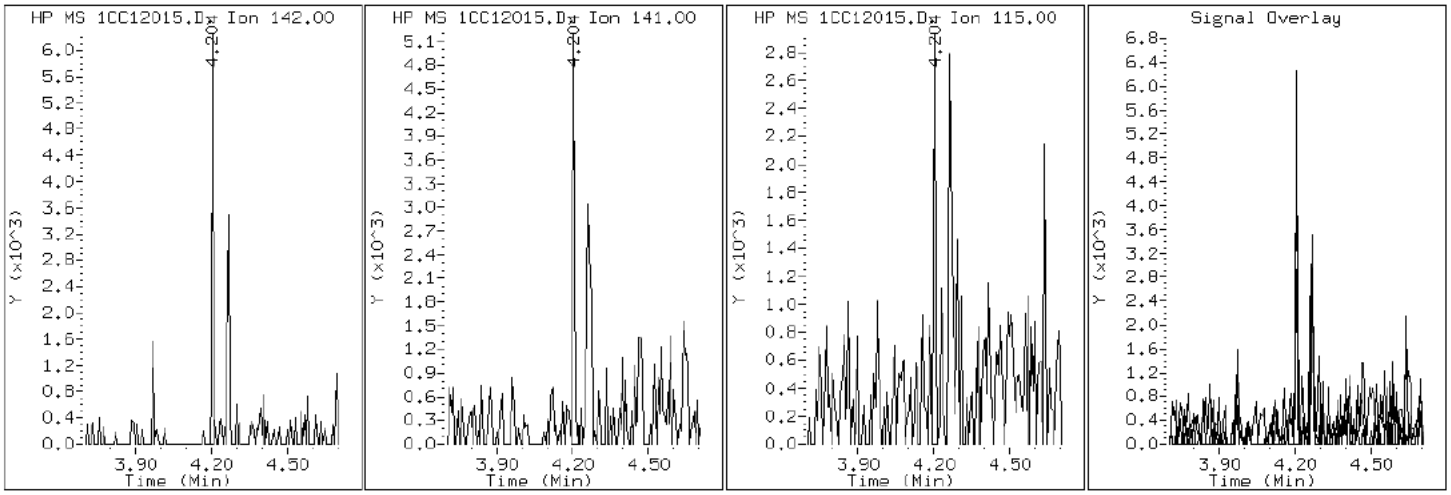
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

3 2-Methylnaphthalene



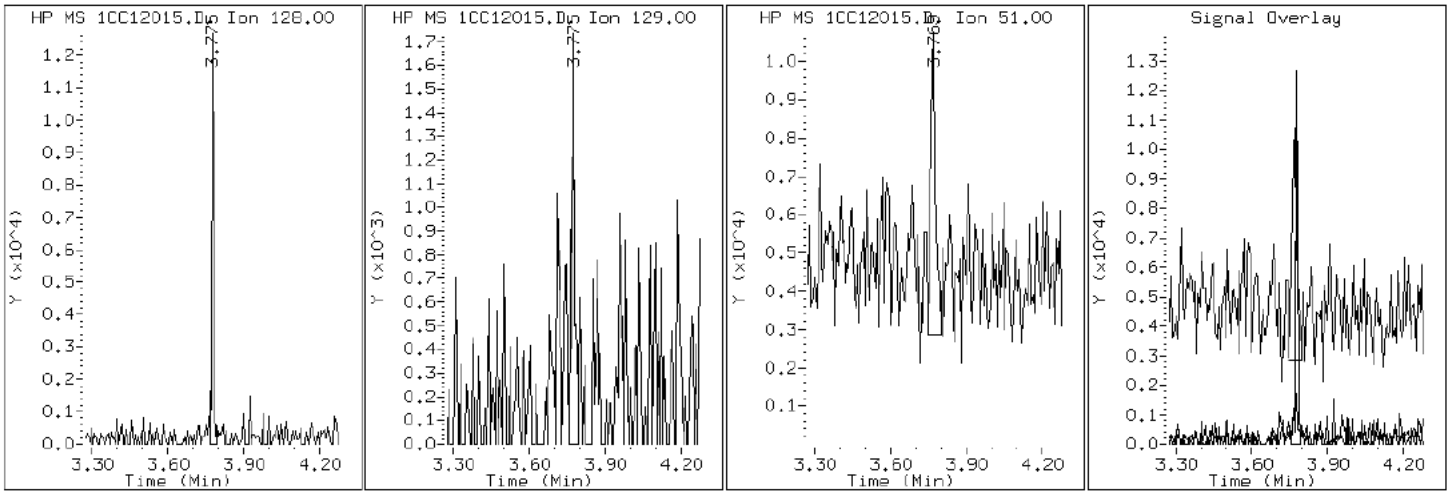
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

2 Naphthalene



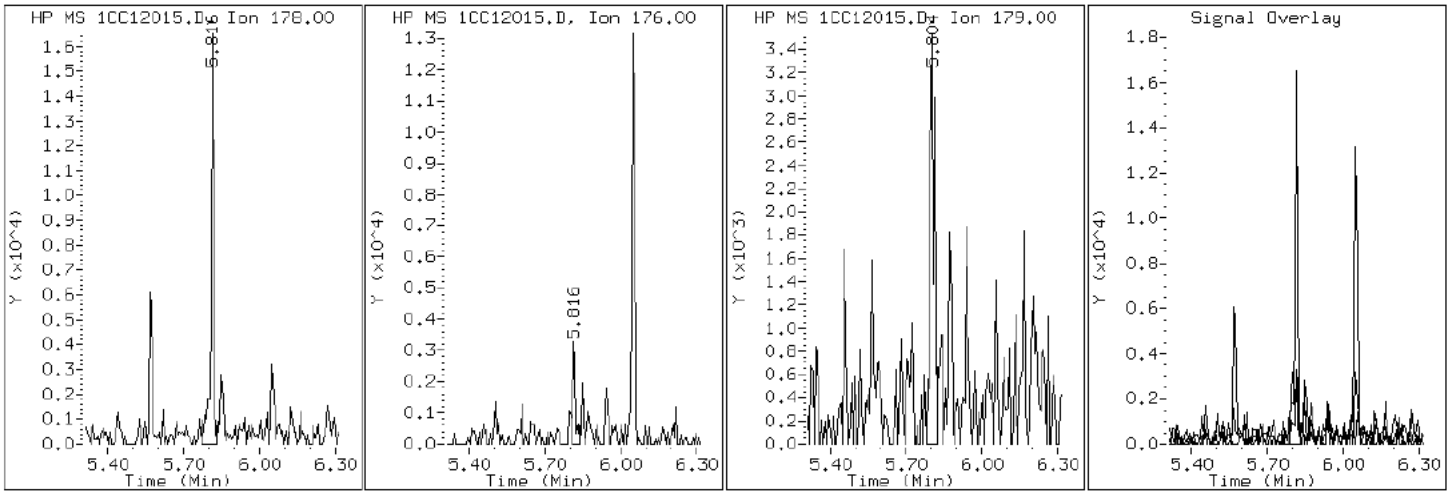
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

11 Phenanthrene



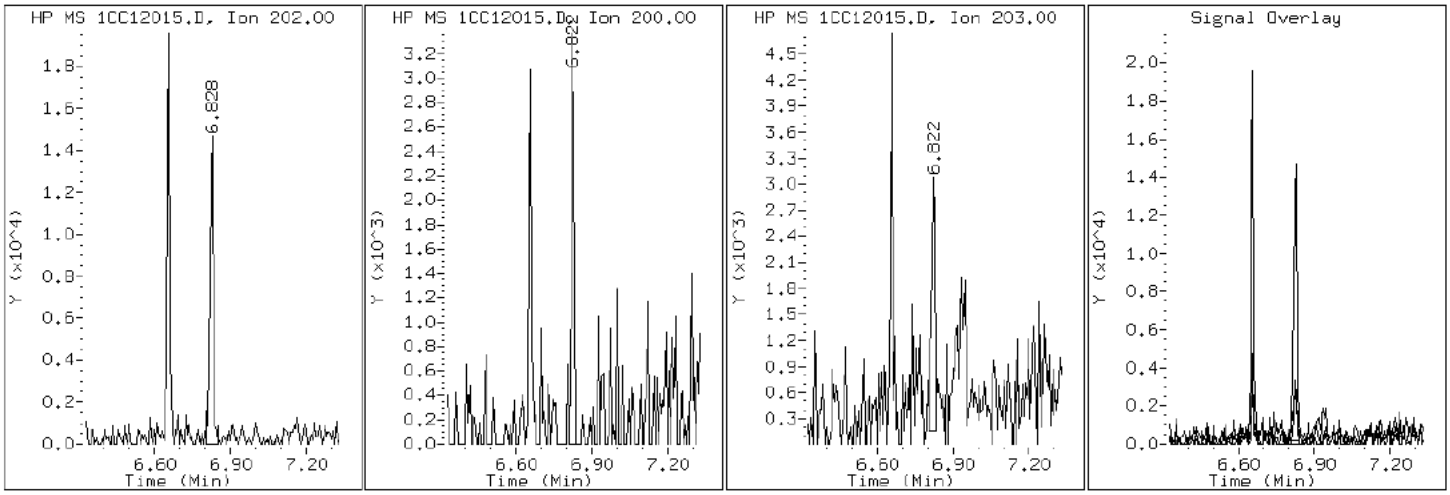
Data File: 1CC12015.D

Date: 12-MAR-2013 16:30

Client ID: CV0558B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12015.D
Inj. Date and Time: 12-MAR-2013 16:30
Instrument ID: BSMC5973.i
Client ID: CV0558B-CS-SP
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 03/13/2013

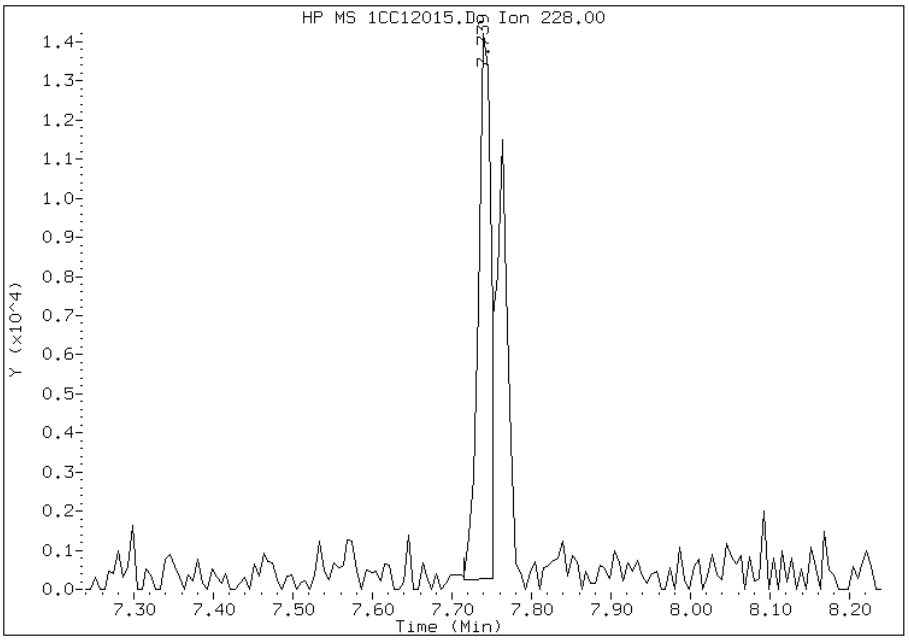
Processing Integration Results

RT: 7.74

Response: 15670

Amount: 0

Conc: 27



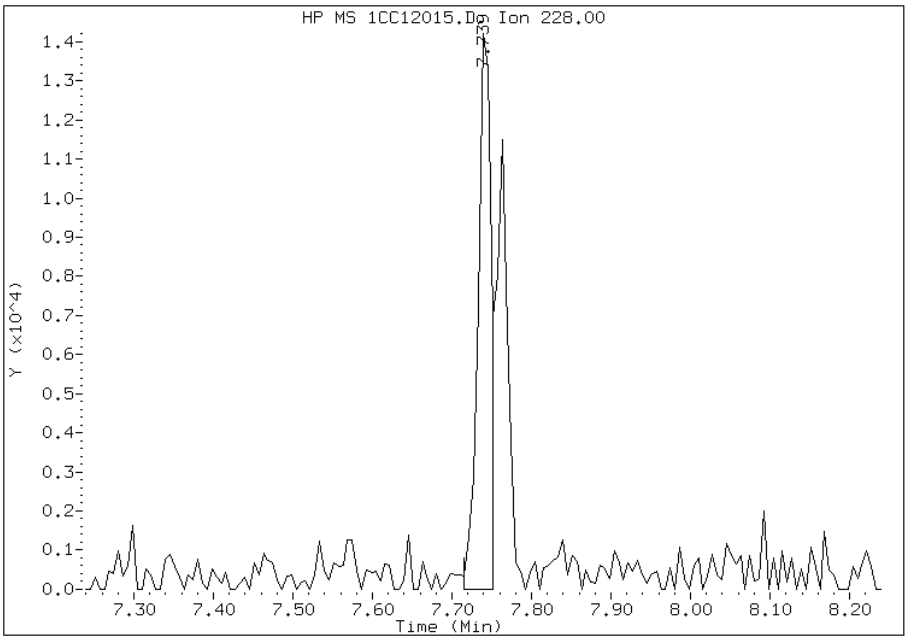
Manual Integration Results

RT: 7.74

Response: 16346

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12015.D
Inj. Date and Time: 12-MAR-2013 16:30
Instrument ID: BSMC5973.i
Client ID: CV0558B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

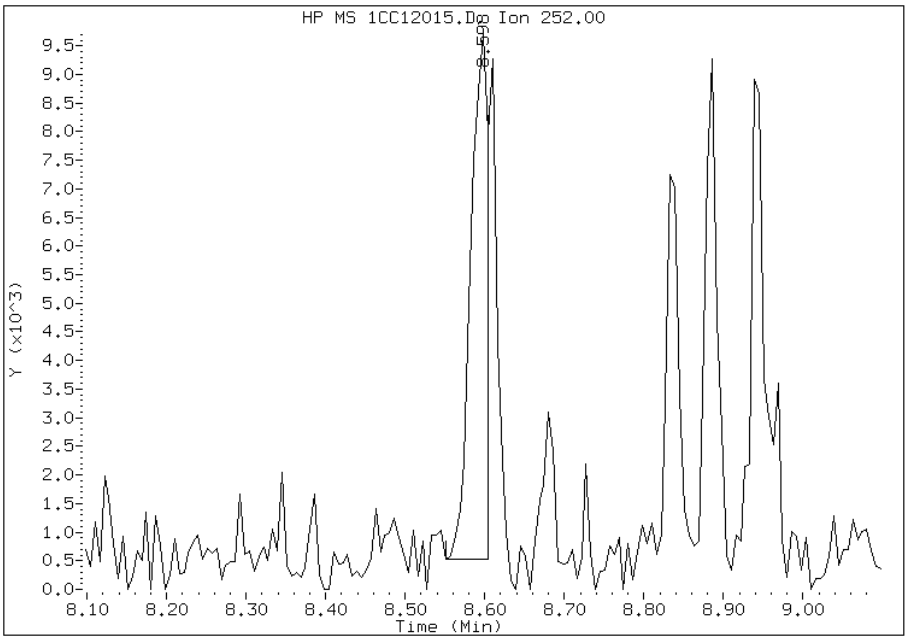
Processing Integration Results

RT: 8.60

Response: 13838

Amount: 0

Conc: 28



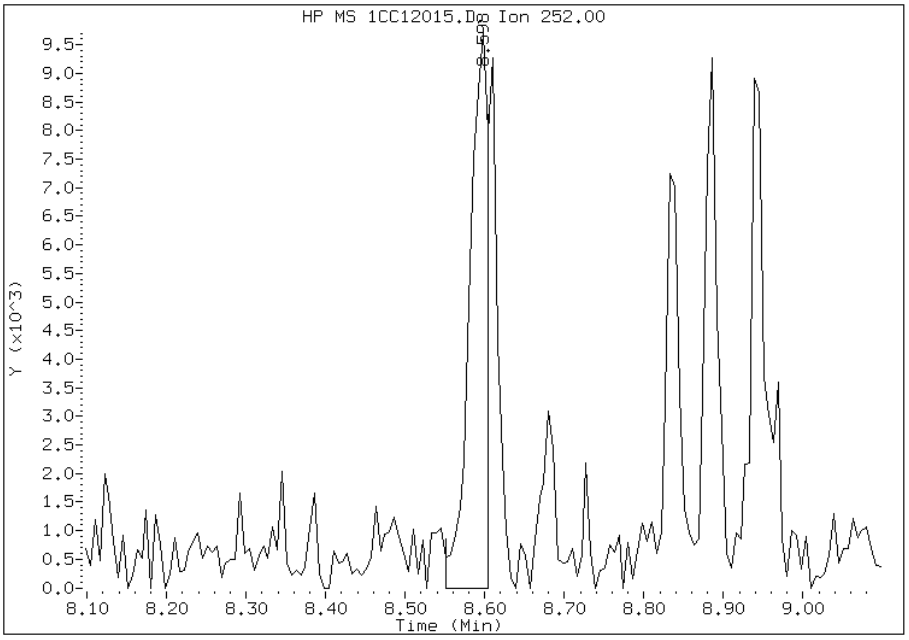
Manual Integration Results

RT: 8.60

Response: 15761

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12015.D
Inj. Date and Time: 12-MAR-2013 16:30
Instrument ID: BSMC5973.i
Client ID: CV0558B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/13/2013

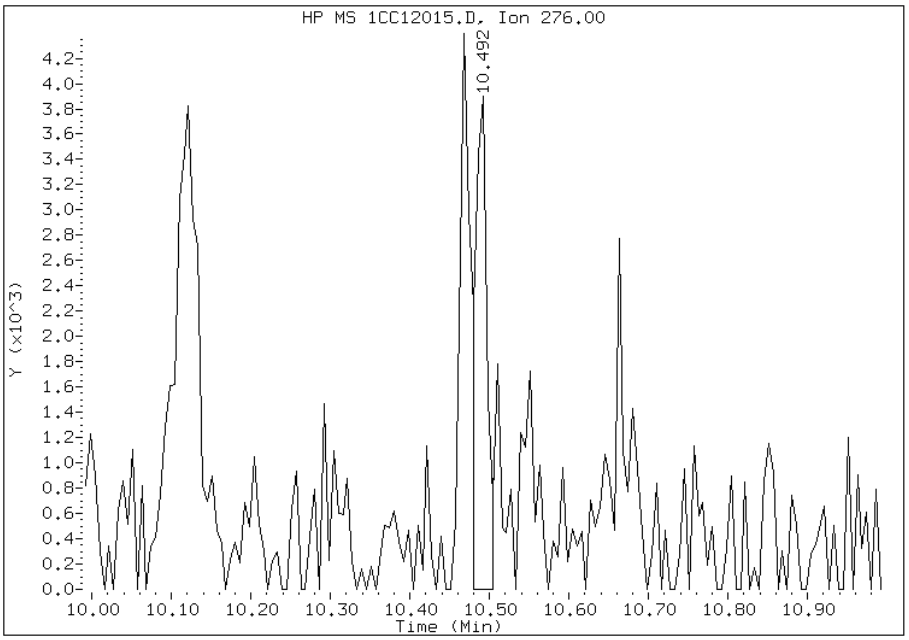
Processing Integration Results

RT: 10.49

Response: 4167

Amount: 0

Conc: 9



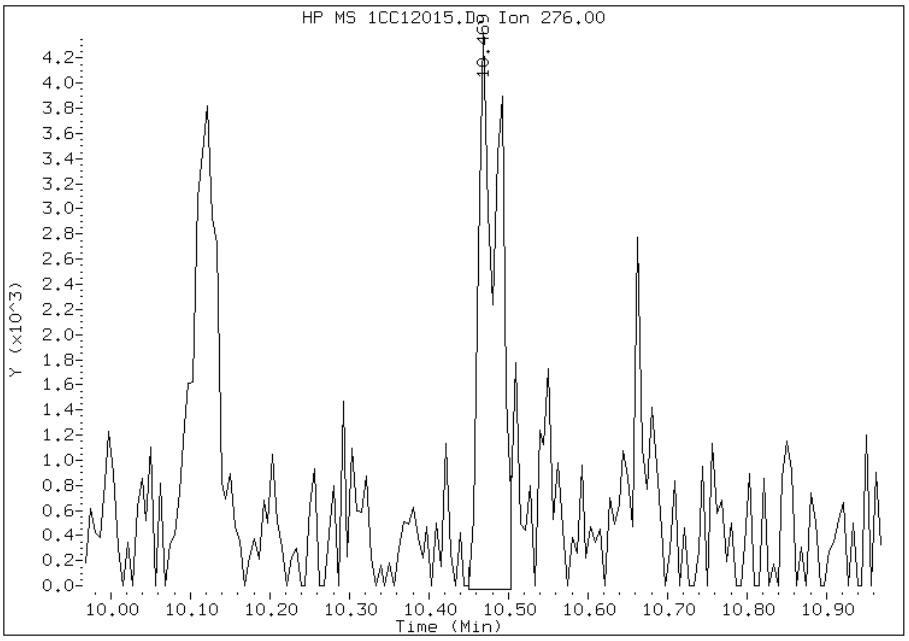
Manual Integration Results

RT: 10.47

Response: 7994

Amount: 0

Conc: 17



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12015.D
Inj. Date and Time: 12-MAR-2013 16:30
Instrument ID: BSMC5973.i
Client ID: CV0558B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

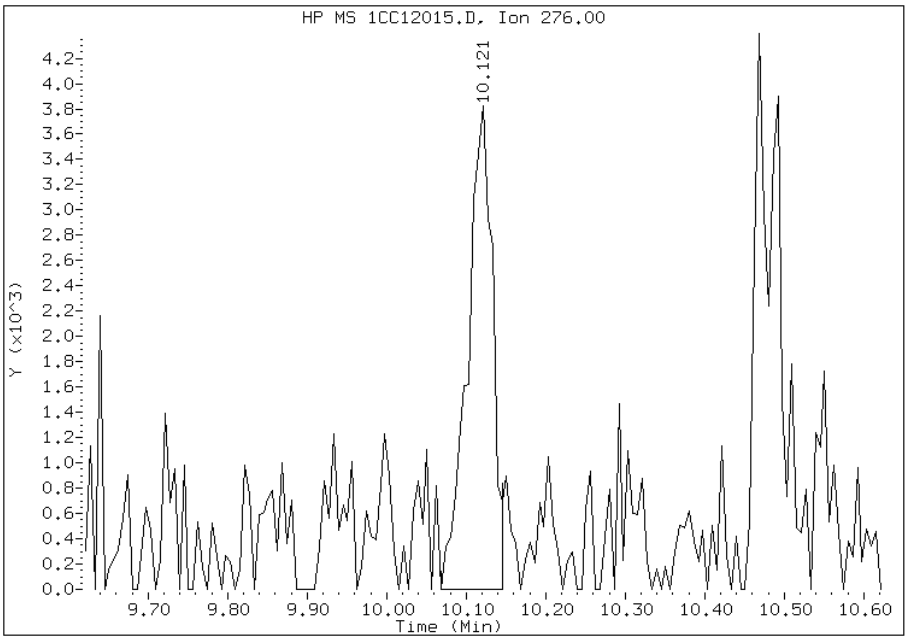
Processing Integration Results

RT: 10.12

Response: 8305

Amount: 0

Conc: 18



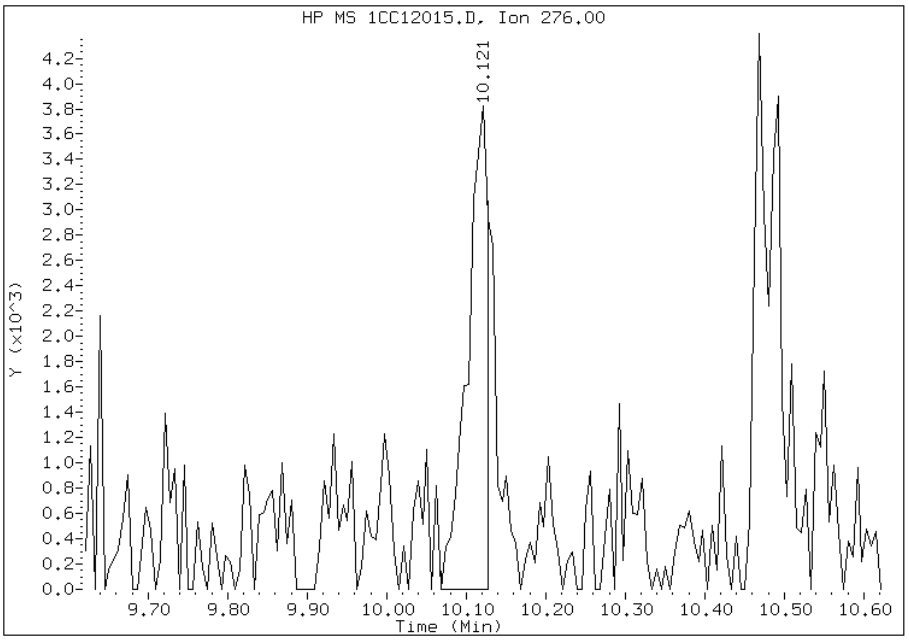
Manual Integration Results

RT: 10.12

Response: 6808

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: FM0301A-CS | Lab Sample ID: 680-88067-5

Matrix: Solid | Lab File ID: 1CC12017.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 08:40

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

Sample wt/vol: 15.17(g) | Date Analyzed: 03/12/2013 17:07

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

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

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	11	J	52	6.6
120-12-7	Anthracene	14		11	5.5
56-55-3	Benzo[a]anthracene	82		10	5.1
50-32-8	Benzo[a]pyrene	71		14	6.8
205-99-2	Benzo[b]fluoranthene	130		16	8.0
191-24-2	Benzo[g,h,i]perylene	60		26	5.8
207-08-9	Benzo[k]fluoranthene	46		10	4.7
218-01-9	Chrysene	100		12	5.9
53-70-3	Dibenz(a,h)anthracene	18	J	26	5.4
206-44-0	Fluoranthene	130		26	5.2
86-73-7	Fluorene	14	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	39		26	9.3
90-12-0	1-Methylnaphthalene	41	J	52	5.8
91-57-6	2-Methylnaphthalene	51	J	52	9.3
91-20-3	Naphthalene	58		52	5.8
85-01-8	Phenanthrene	110		10	5.1
129-00-0	Pyrene	120		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12017.D
Lab Smp Id: 680-88067-A-5-A Client Smp ID: FM0301A-CS
Inj Date : 12-MAR-2013 17:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-5-a
Misc Info : 680-88067-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: 17
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	15.170	Weight Extracted
M	24.528	% 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

							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1336451	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1056956	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1969579	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	198643	6.67993	583.4480
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2110484	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	1999697	40.0000	
	2 Naphthalene	128	3.775	3.774	(1.003)	23116	0.66439	58.0300
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	13567	0.58457	51.0586
	4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	9865	0.46671	40.7641
	5 Acenaphthylene	152	4.763	4.763	(0.982)	5227	0.12266	10.7136
	9 Fluorene	166	5.192	5.192	(1.070)	5302	0.15828	13.8249
	11 Phenanthrene	178	5.816	5.815	(1.002)	72735	1.27714	111.5496
	12 Anthracene	178	5.851	5.851	(1.008)	9001	0.16160	14.1149
	13 Carbazole	167	5.957	5.957	(1.026)	12430	0.25105	21.9276

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	95709	1.53457	134.0342
16 Pyrene	202	6.821	6.827	(0.881)	79078	1.39427	121.7807
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	57059	0.93673	81.8176
19 Chrysene	228	7.762	7.768	(1.002)	70947	1.16386	101.6554
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	78749	1.50688	131.6163(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	27978	0.52188	45.5826(M)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	41194	0.81153	70.8815
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	21536	0.45100	39.3917(M)
25 Dibenzo(a,h)anthracene	278	10.133	10.145	(1.133)	9802	0.20986	18.3296
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	34120	0.68305	59.6599

QC Flag Legend

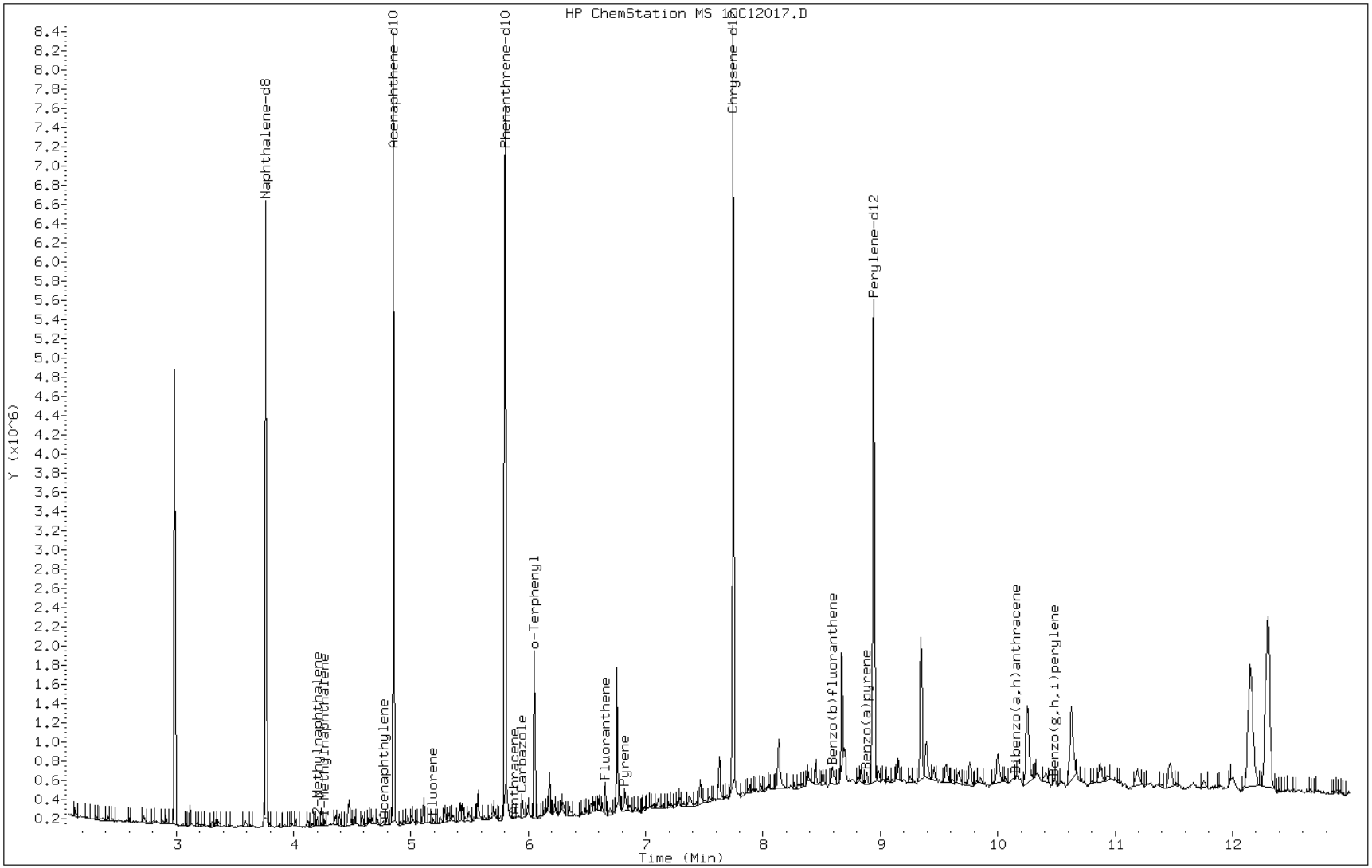
M - Compound response manually integrated.

Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC



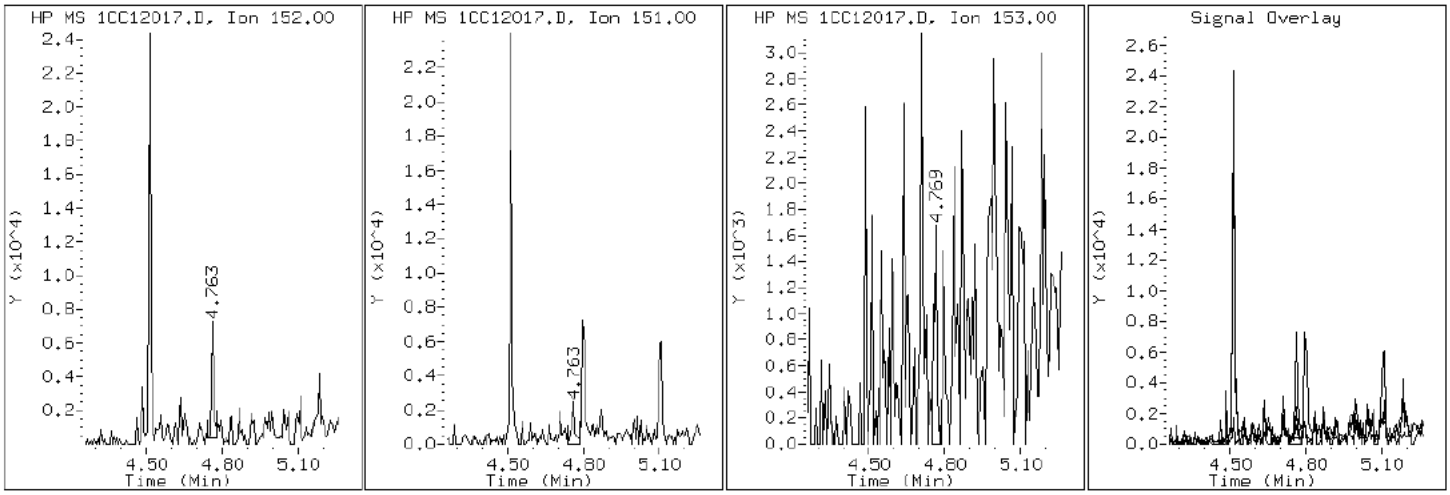
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

5 Acenaphthylene



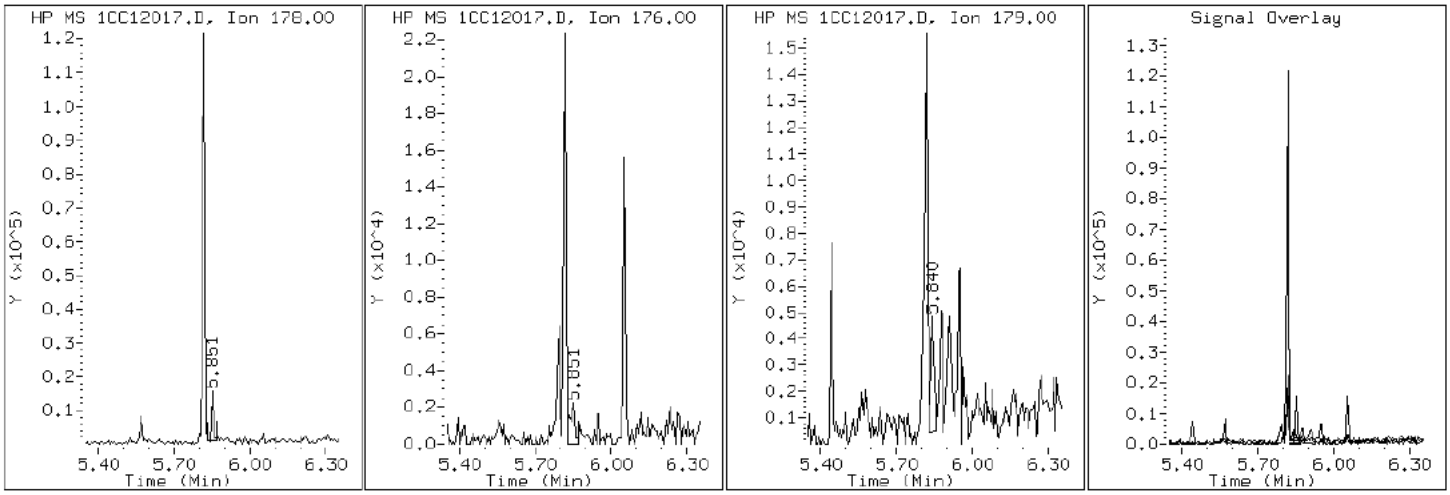
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

12 Anthracene



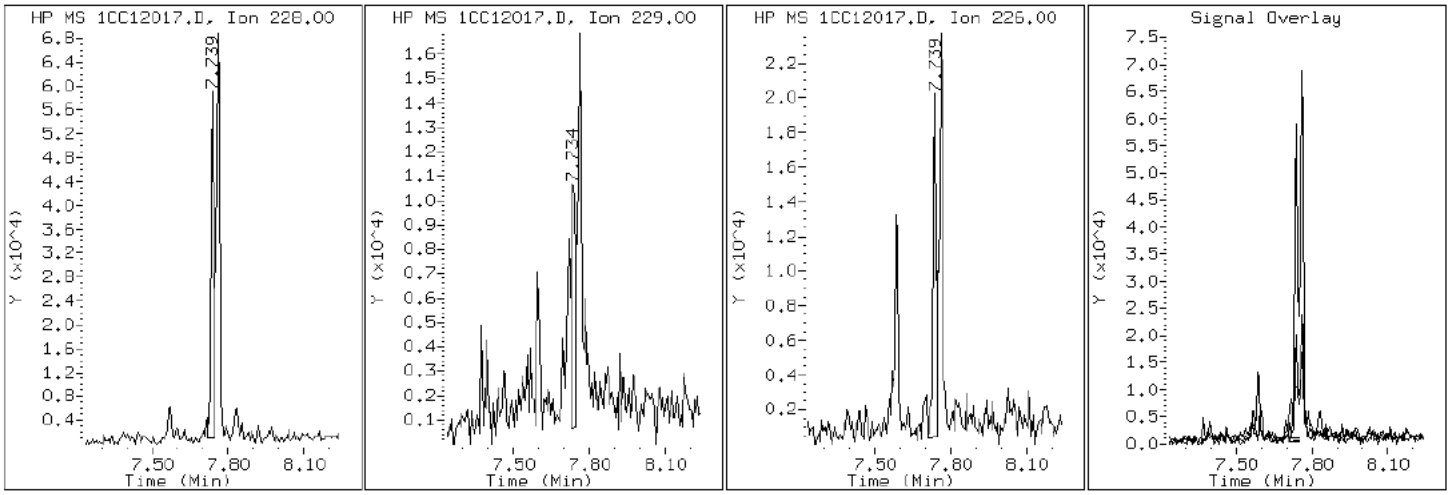
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

17 Benzo(a)anthracene



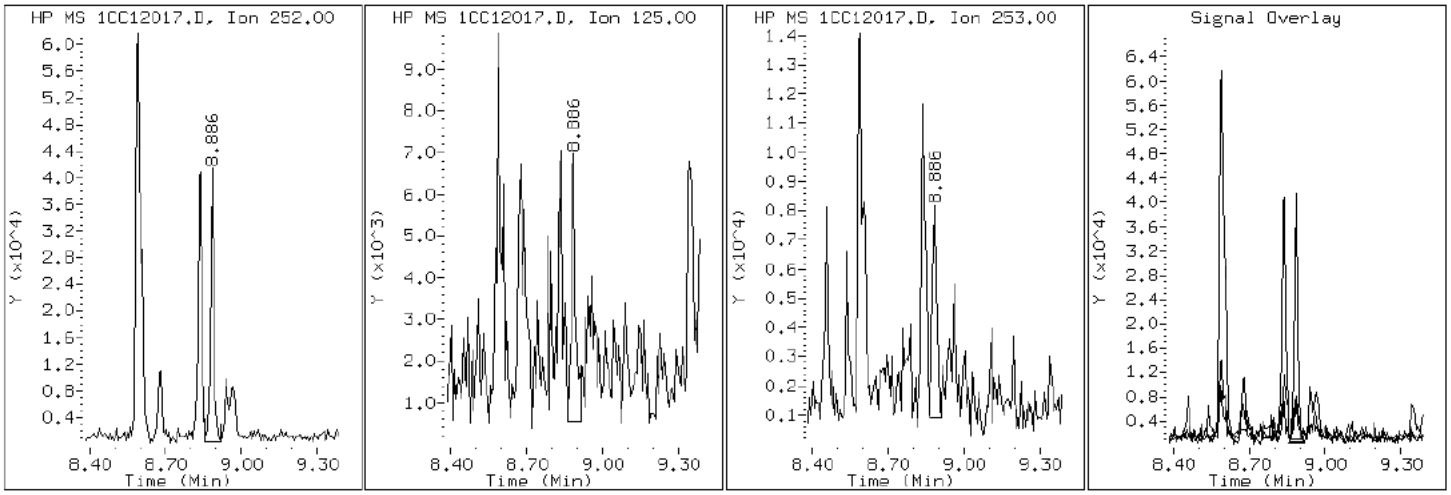
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

22 Benzo(a)pyrene



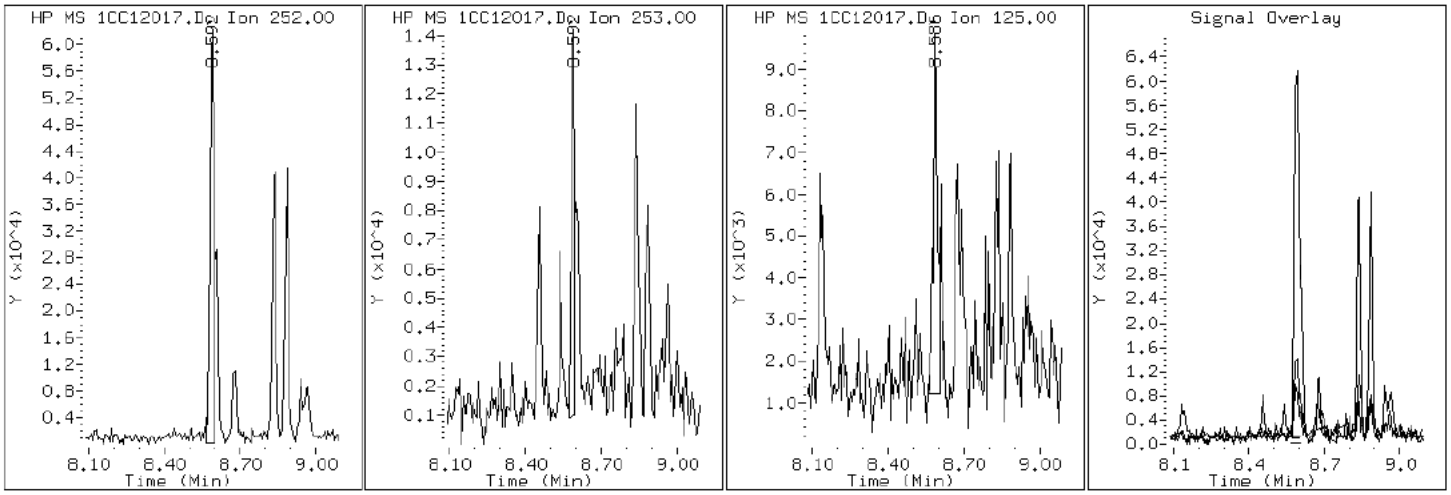
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



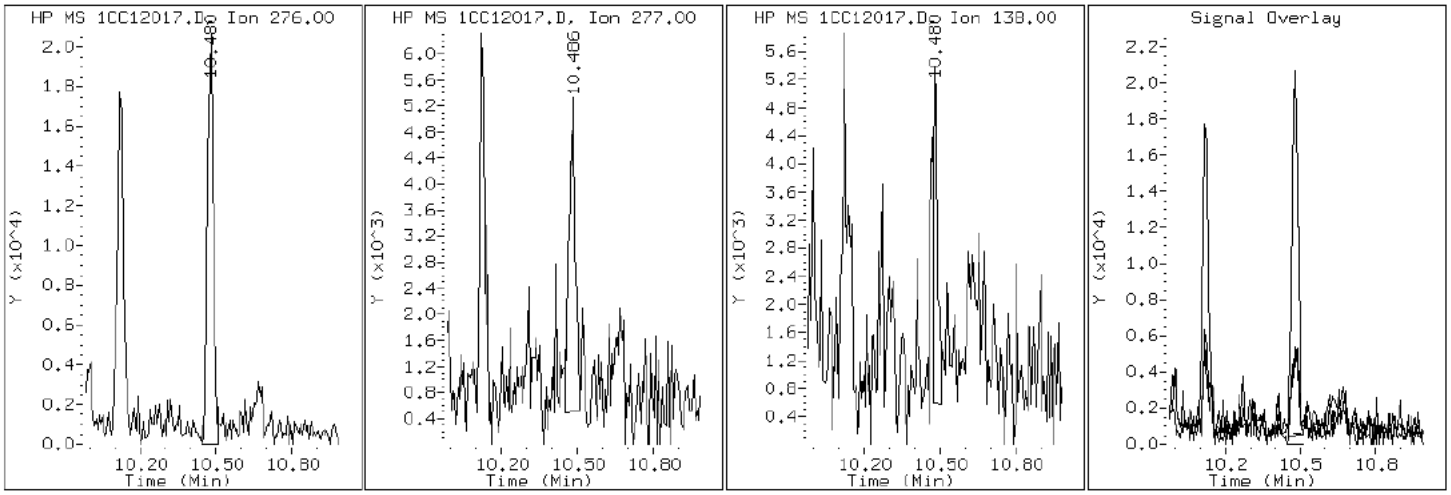
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



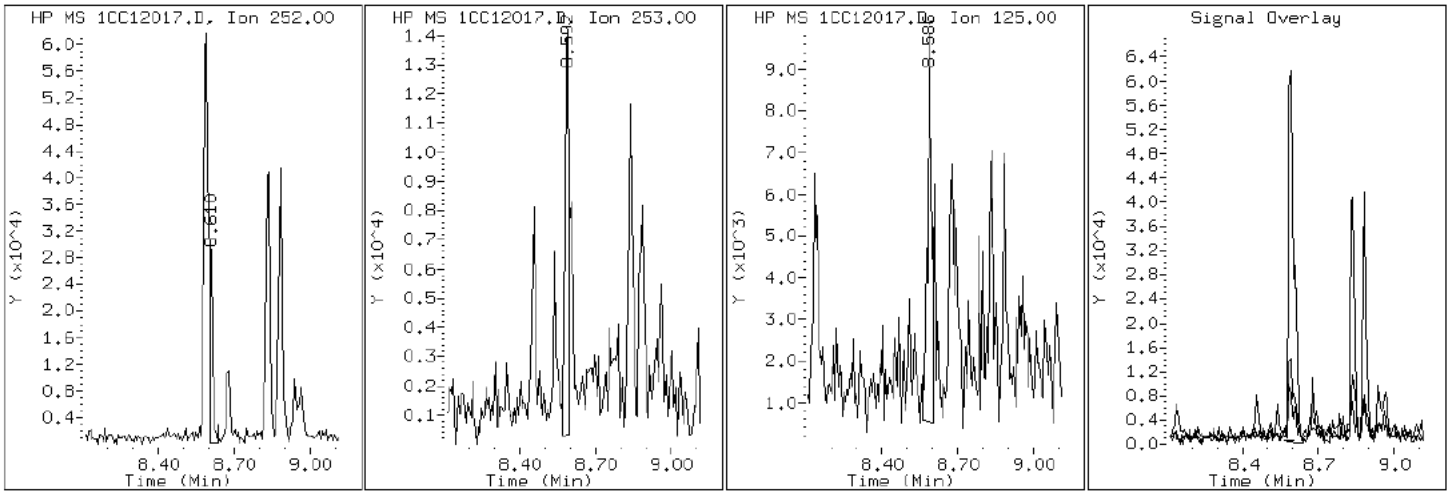
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



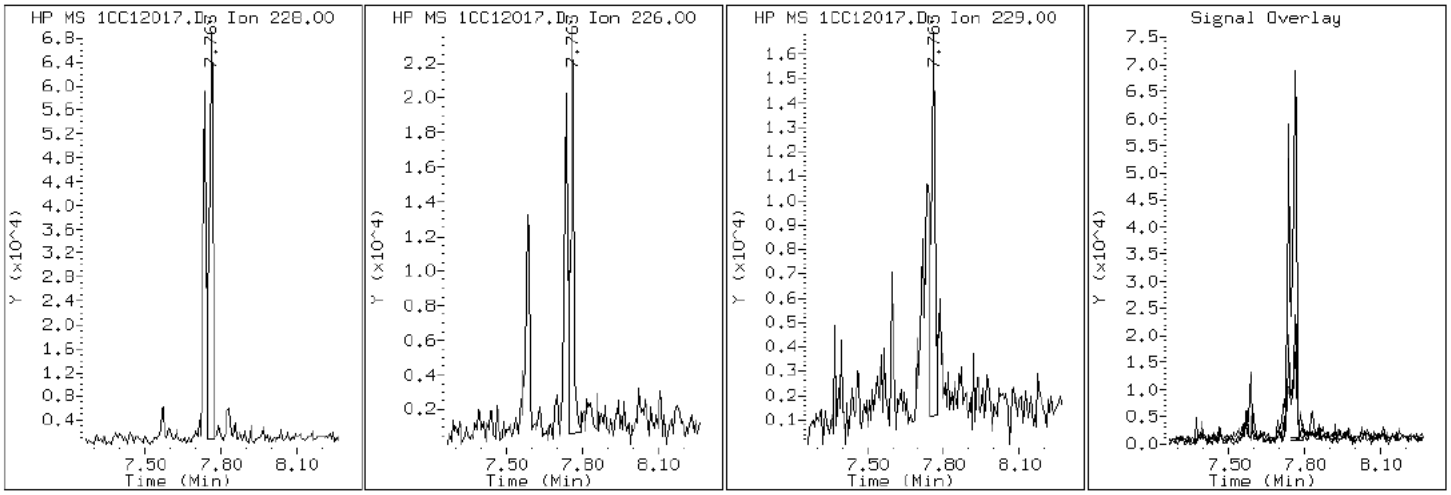
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

19 Chrysene



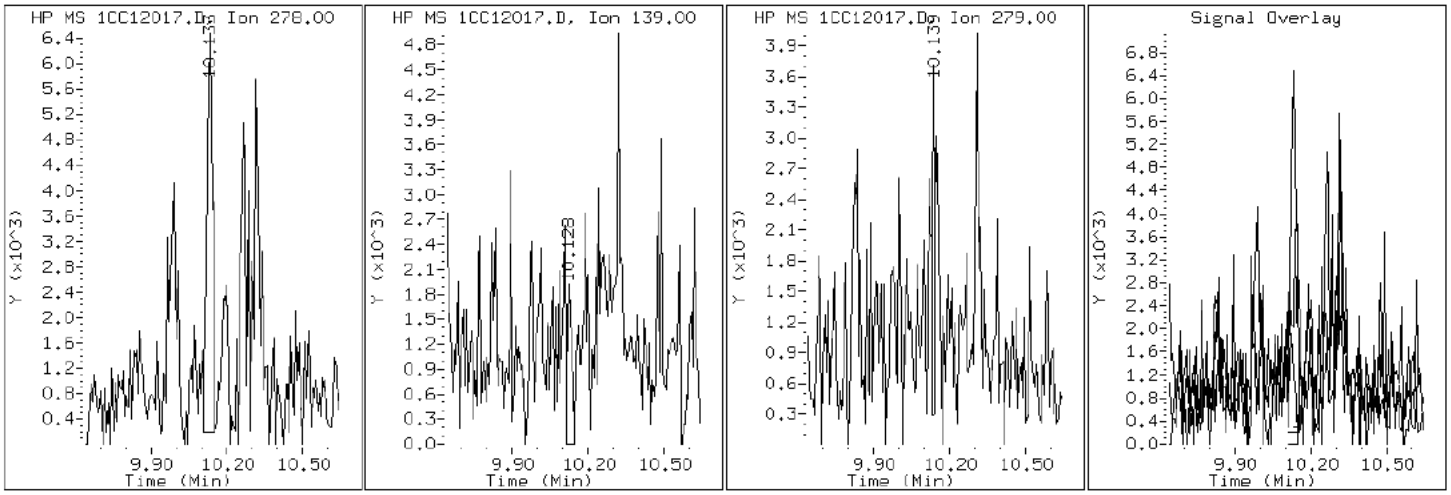
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



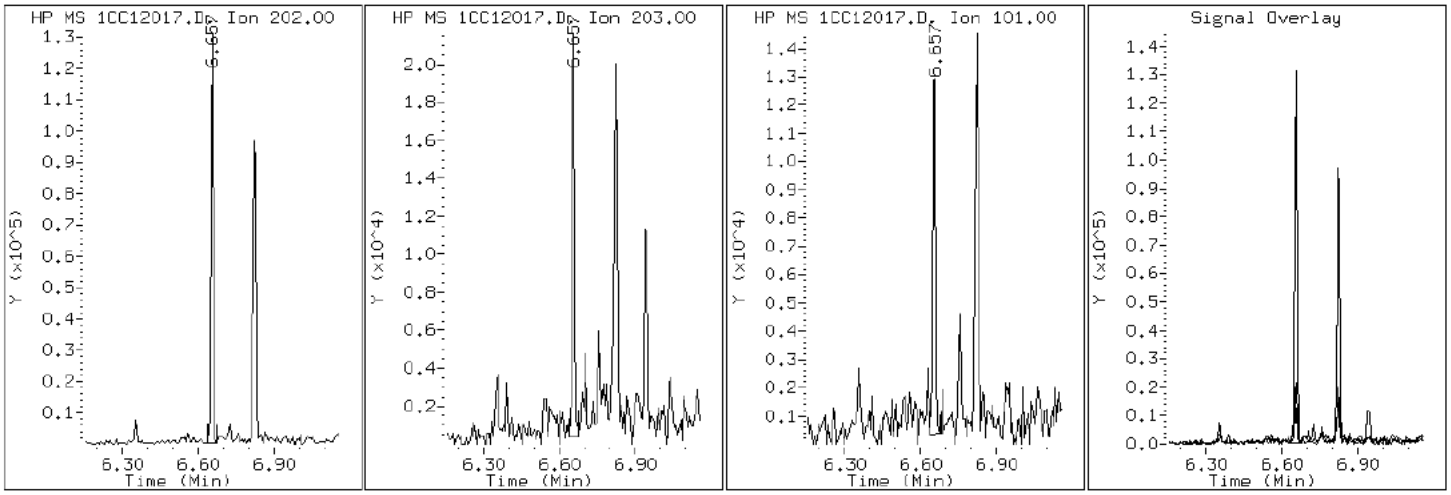
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

15 Fluoranthene



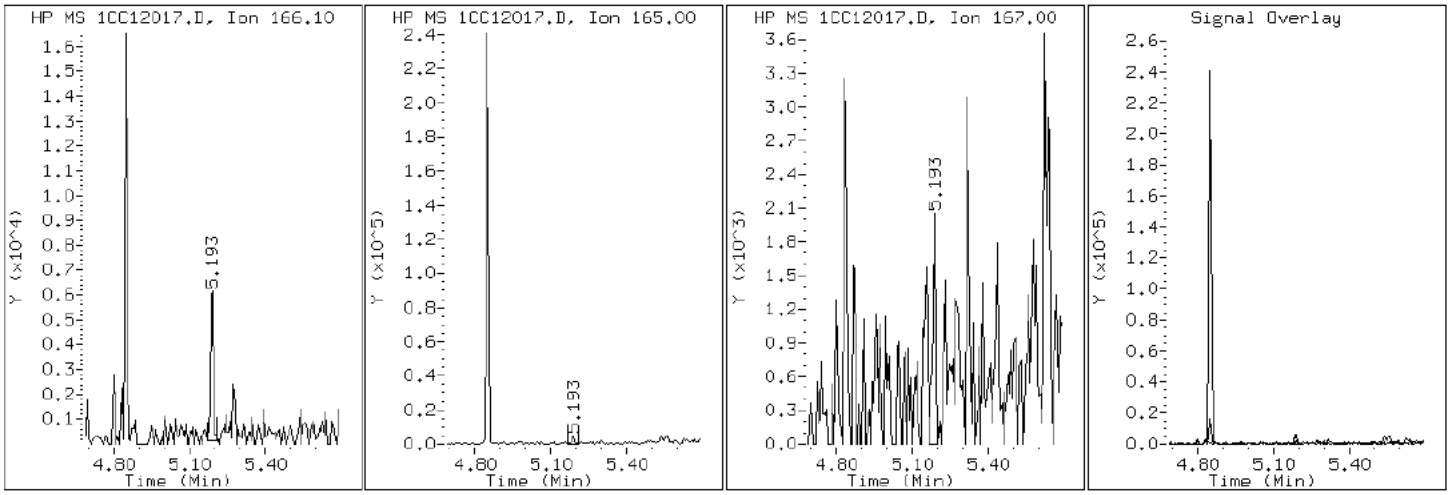
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

9 Fluorene



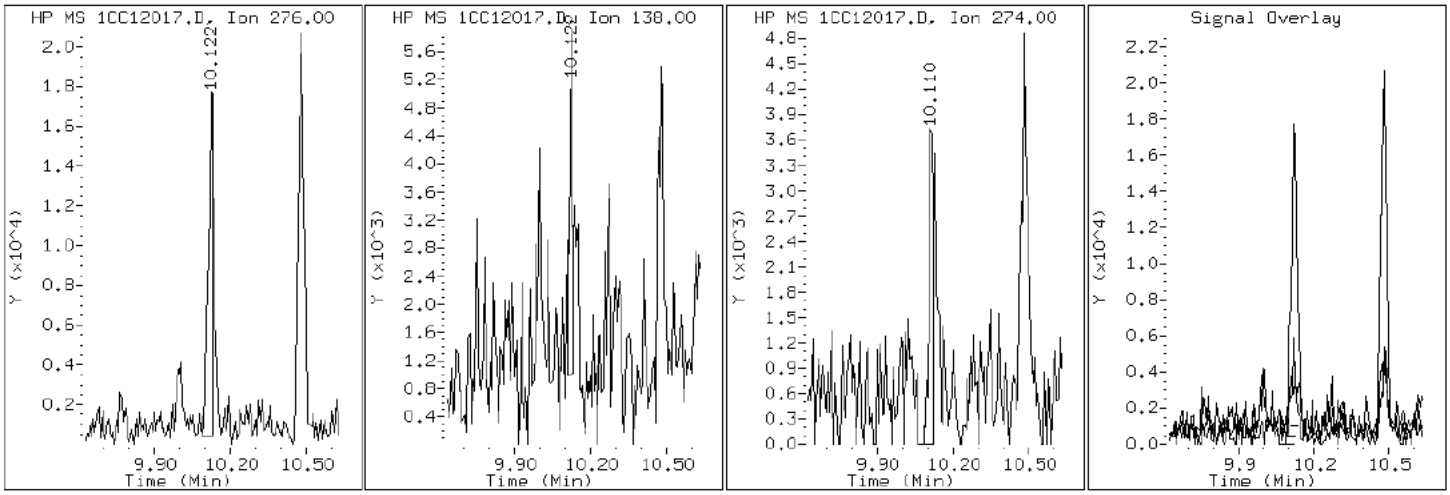
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

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



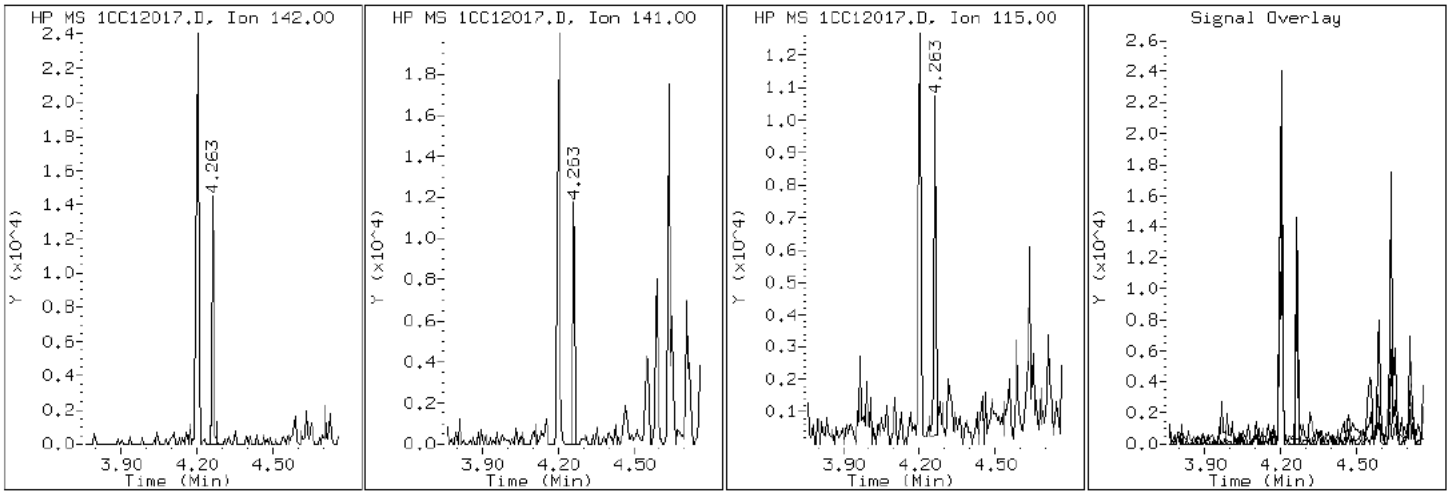
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

4 1-Methylnaphthalene



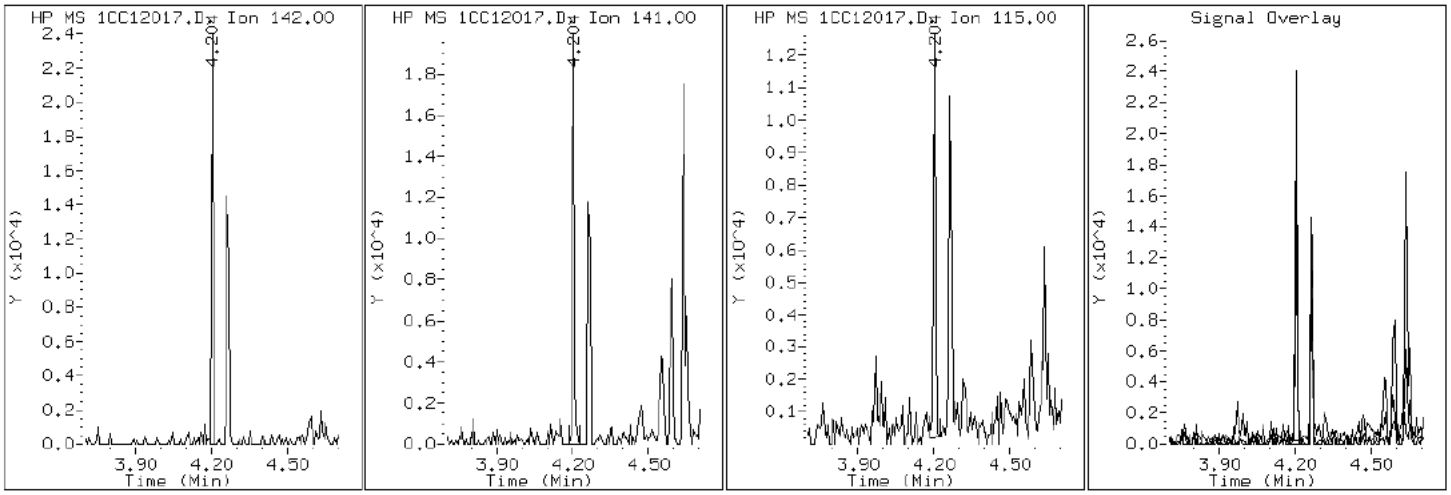
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

3 2-Methylnaphthalene



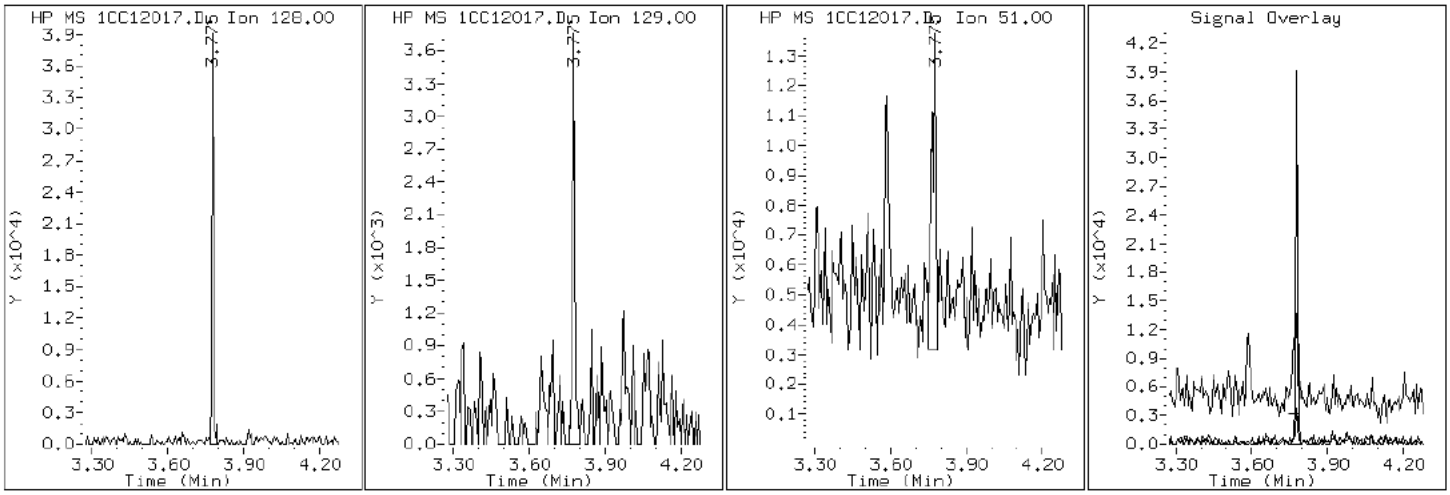
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

2 Naphthalene



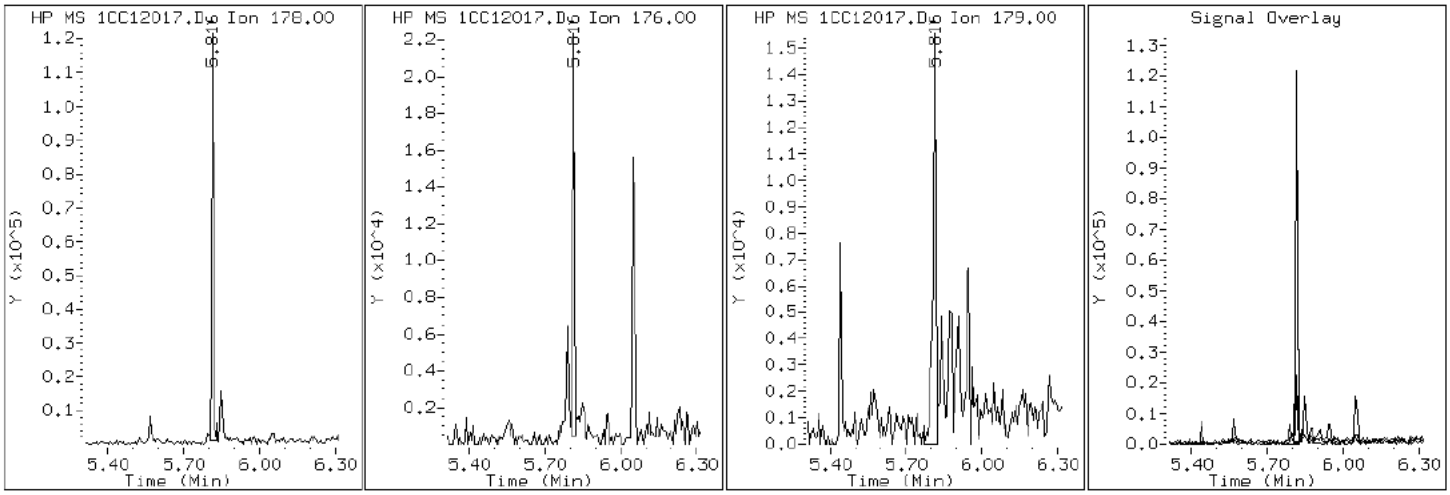
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

11 Phenanthrene



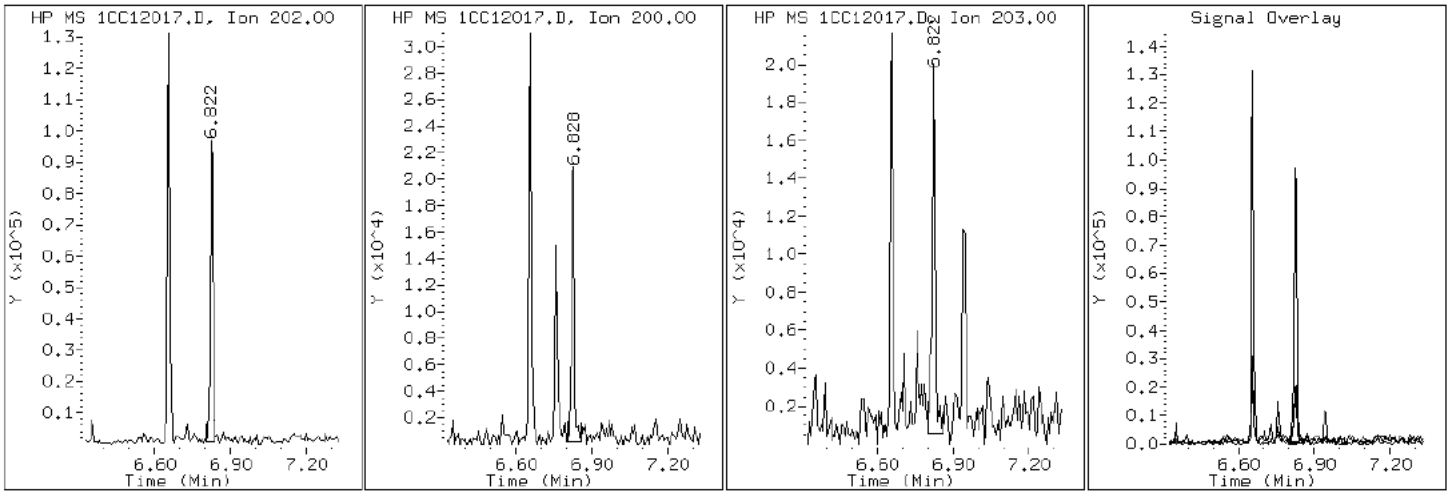
Data File: 1CC12017.D

Date: 12-MAR-2013 17:07

Client ID: FM0301A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12017.D
Inj. Date and Time: 12-MAR-2013 17:07
Instrument ID: BSMC5973.i
Client ID: FM0301A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

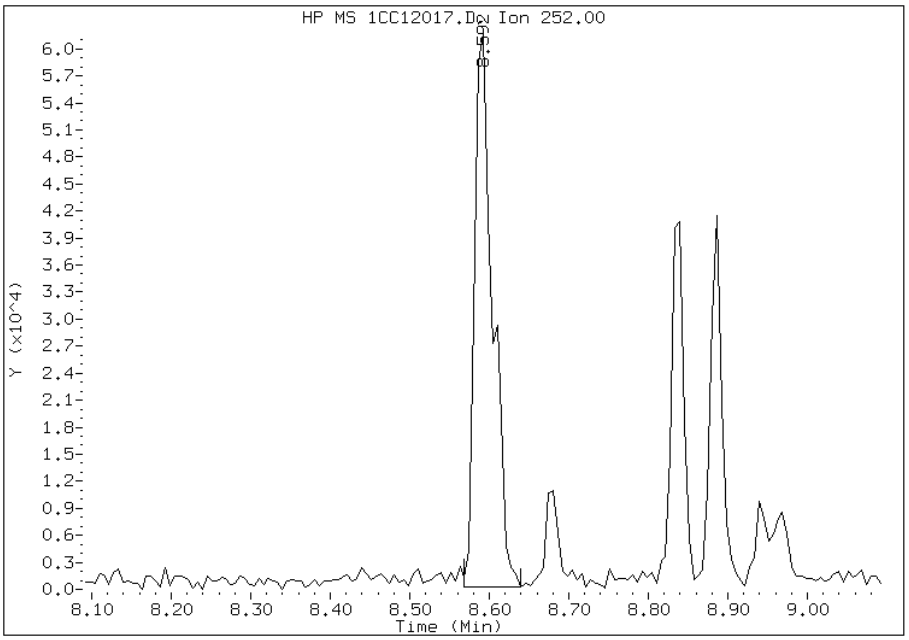
Processing Integration Results

RT: 8.59

Response: 97138

Amount: 2

Conc: 162



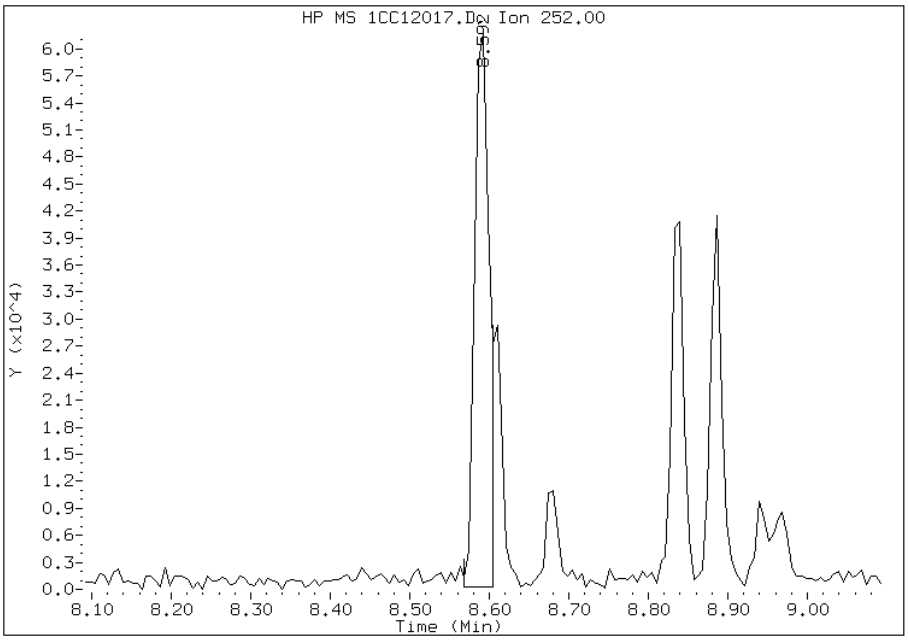
Manual Integration Results

RT: 8.59

Response: 78749

Amount: 2

Conc: 132



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12017.D
Inj. Date and Time: 12-MAR-2013 17:07
Instrument ID: BSMC5973.i
Client ID: FM0301A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

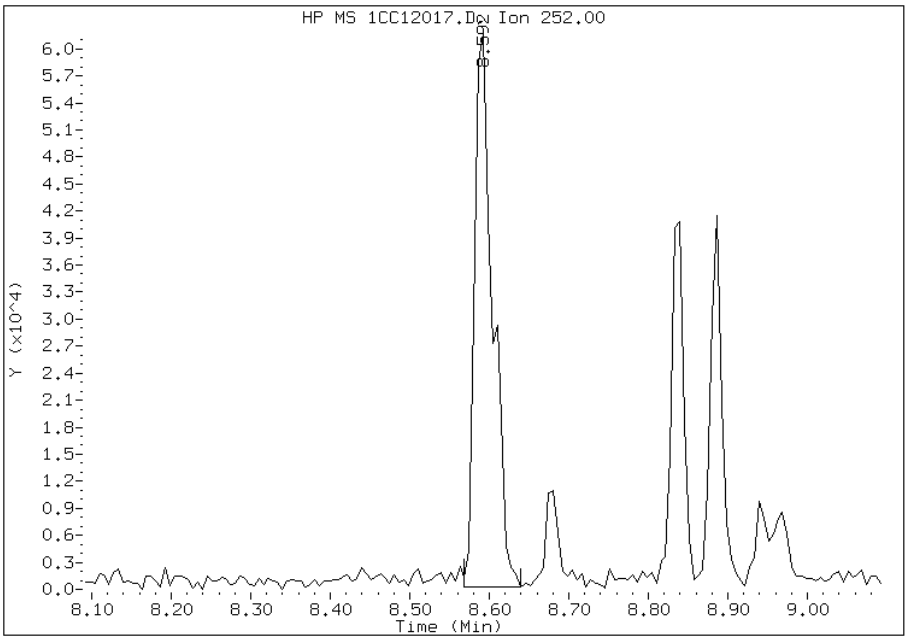
Processing Integration Results

RT: 8.59

Response: 97218

Amount: 2

Conc: 158



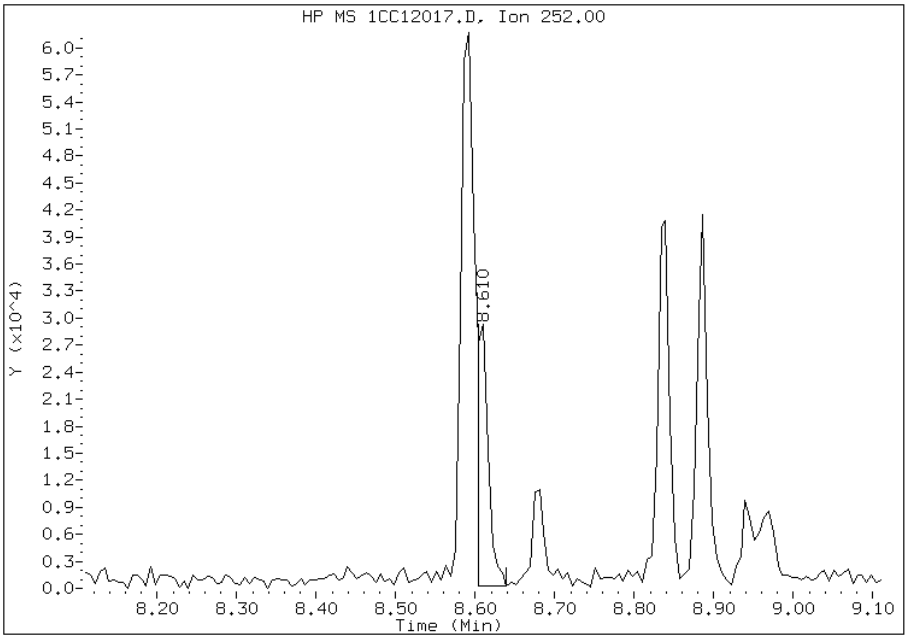
Manual Integration Results

RT: 8.61

Response: 27978

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12017.D
Inj. Date and Time: 12-MAR-2013 17:07
Instrument ID: BSMC5973.i
Client ID: FM0301A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

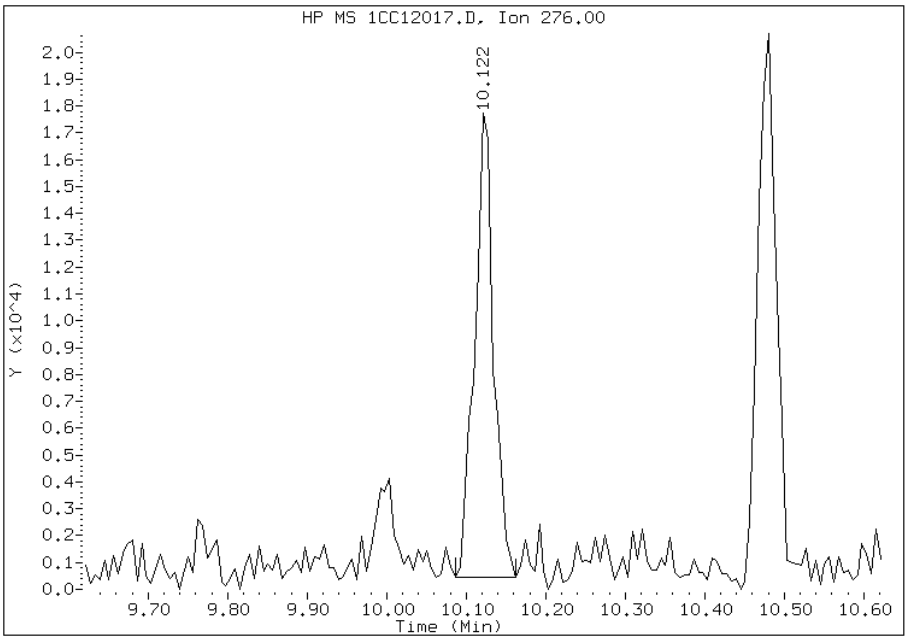
Processing Integration Results

RT: 10.12

Response: 28281

Amount: 1

Conc: 52



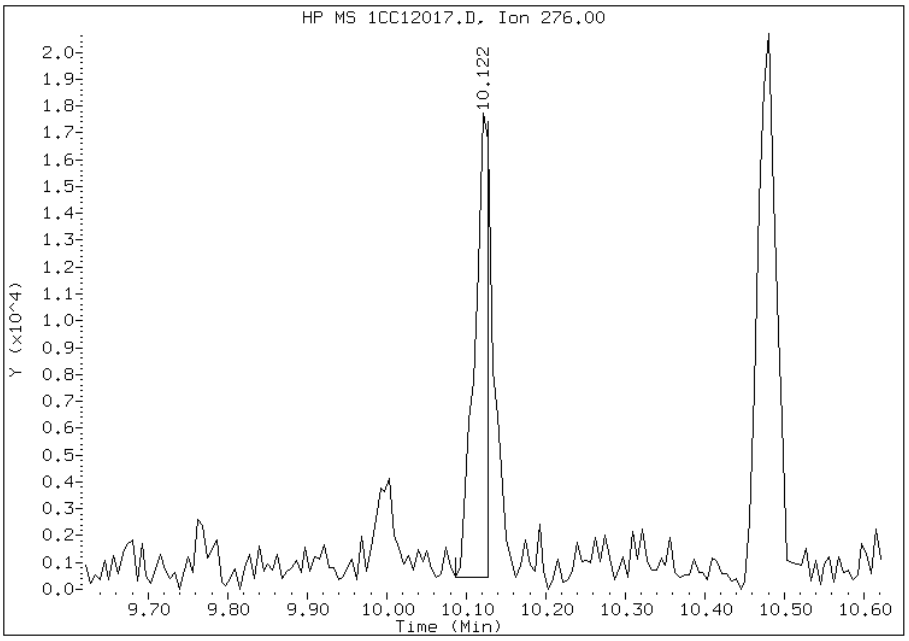
Manual Integration Results

RT: 10.12

Response: 21536

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0023A-CS | Lab Sample ID: 680-88067-6

Matrix: Solid | Lab File ID: 1CC12018.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:50

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

Sample wt/vol: 14.96(g) | Date Analyzed: 03/12/2013 17:25

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

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

% Moisture: 30.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9800		580	120
208-96-8	Acenaphthylene	270		230	29
53-70-3	Dibenz(a,h)anthracene	7600		120	24
86-73-7	Fluorene	8100		120	24
90-12-0	1-Methylnaphthalene	1000		230	25
91-57-6	2-Methylnaphthalene	1300		230	41
91-20-3	Naphthalene	2800		230	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12018.D
Lab Smp Id: 680-88067-A-6-A Client Smp ID: HP0023A-CS
Inj Date : 12-MAR-2013 17:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-6-a
Misc Info : 680-88067-A-6-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: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	30.493	% 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)	1330849	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1029320	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1899034	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	44952	1.56779	603.1007
* 18 Chrysene-d12	240	7.757	7.745	(1.000)	2623084	40.0000	
* 23 Perylene-d12	264	8.951	8.945	(1.000)	2126345	40.0000	
2 Naphthalene	128	3.775	3.774	(1.003)	255456	7.37310	2836.2965
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	80073	3.46470	1332.8070
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	56037	2.66226	1024.1220
5 Acenaphthylene	152	4.763	4.763	(0.982)	29644	0.71433	274.7902
7 Acenaphthene	154	4.869	4.868	(1.004)	658008	25.5102	9813.3061
9 Fluorene	166	5.192	5.192	(1.070)	682781	20.9307	8051.6395
11 Phenanthrene	178	5.821	5.815	(1.003)	8451220	153.906	59204.7110(A)
12 Anthracene	178	5.857	5.851	(1.009)	2795864	52.0613	20027.0423(A)

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)	1387522	29.0651	11180.8029
15 Fluoranthene	202	6.657	6.657	(1.147)	10803667	179.657	69110.8127(A)
16 Pyrene	202	6.827	6.827	(0.880)	10387682	147.361	56686.9038(A)
17 Benzo(a)anthracene	228	7.745	7.739	(0.998)	8769640	115.836	44560.0520(A)
19 Chrysene	228	7.774	7.768	(1.002)	7881003	104.020	40014.6785(A)
20 Benzo(b)fluoranthene	252	8.610	8.592	(0.962)	11239306	202.257	77804.7510(AM)
21 Benzo(k)fluoranthene	252	8.621	8.615	(0.963)	3495434	61.3175	23587.7260(AQM)
22 Benzo(a)pyrene	252	8.904	8.886	(0.995)	6616293	122.578	47153.6830(A)
24 Indeno(1,2,3-cd)pyrene	276	10.151	10.127	(1.134)	3647840	71.8416	27636.1647(AM)
25 Dibenzo(a,h)anthracene	278	10.156	10.145	(1.135)	982614	19.7844	7610.6831
26 Benzo(g,h,i)perylene	276	10.515	10.486	(1.175)	3828710	72.0819	27728.5953(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12018.D

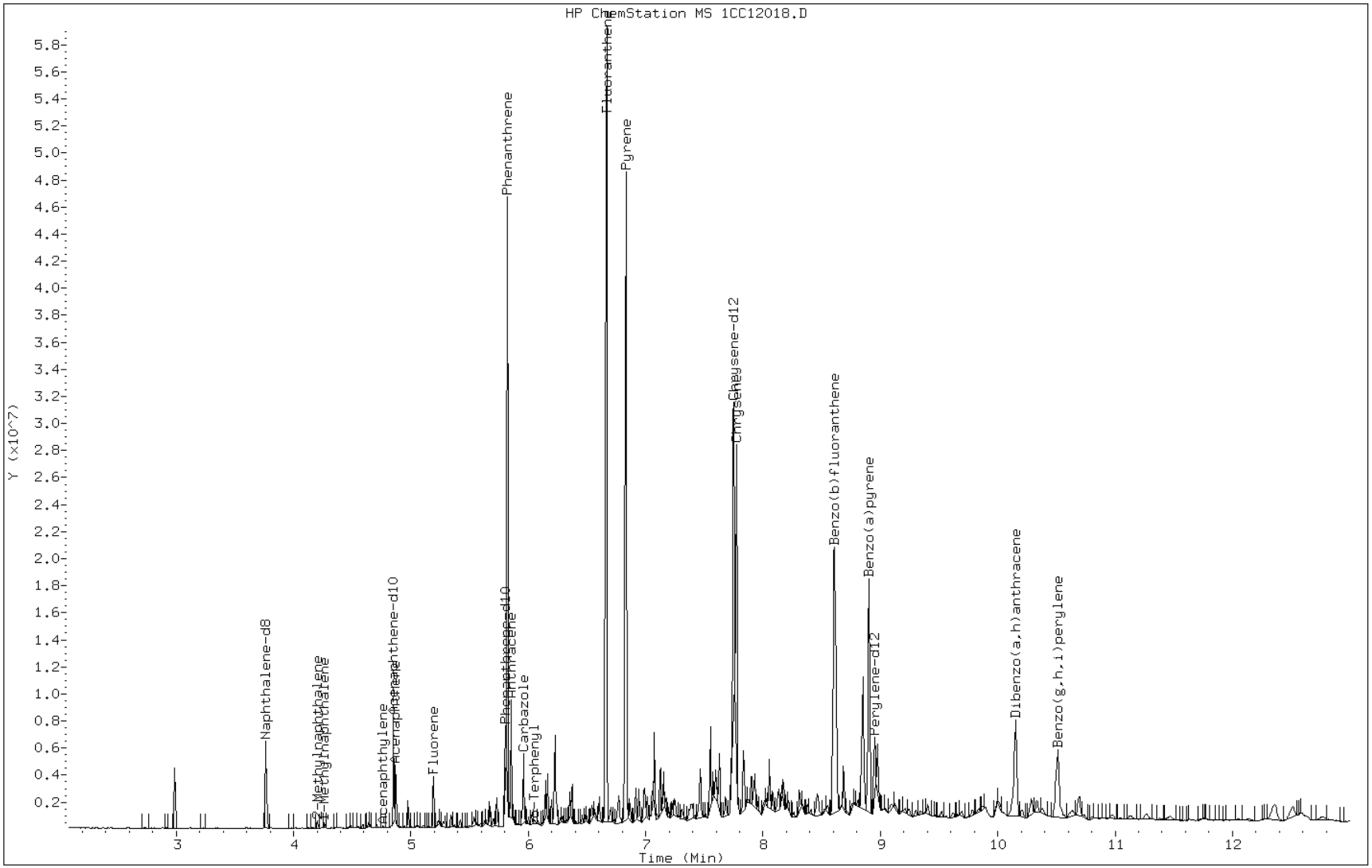
Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a

Operator: SCC



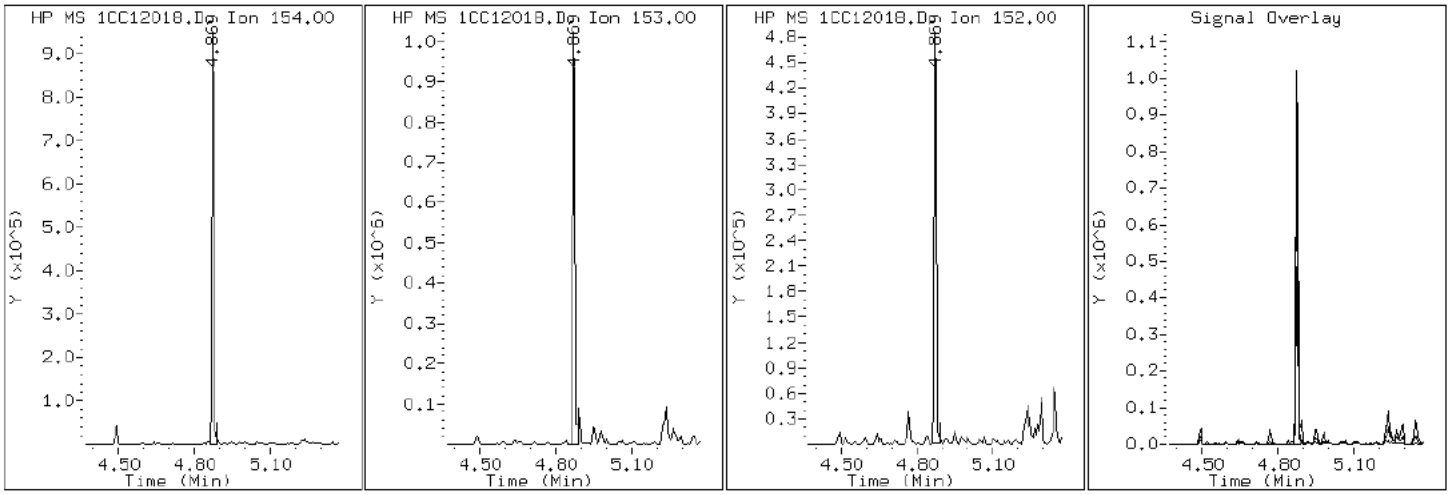
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

7 Acenaphthene



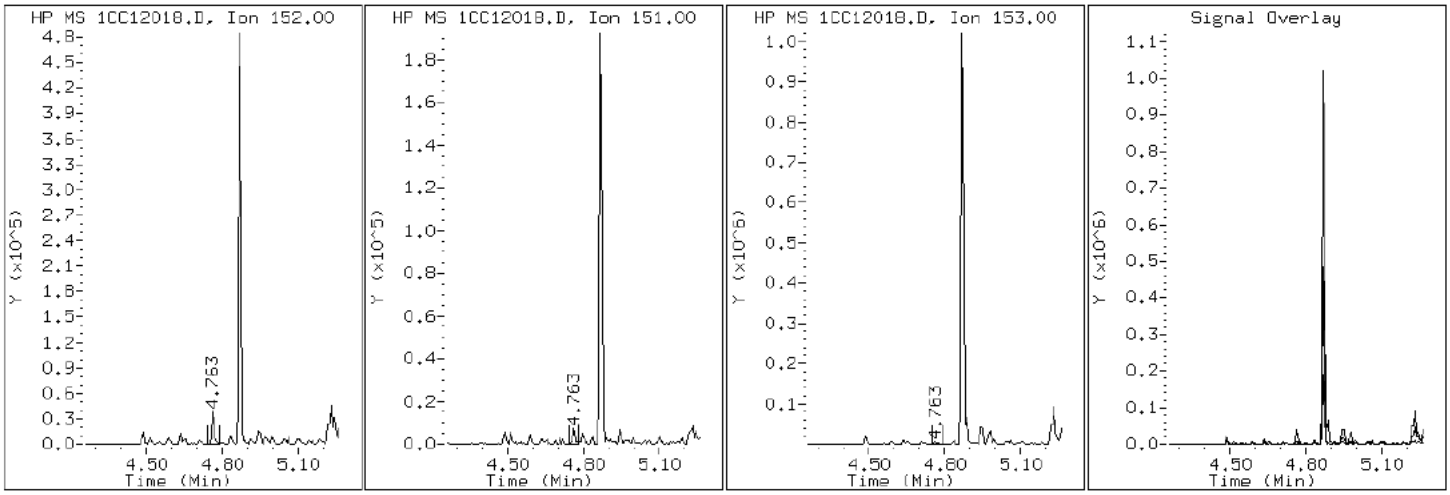
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

5 Acenaphthylene



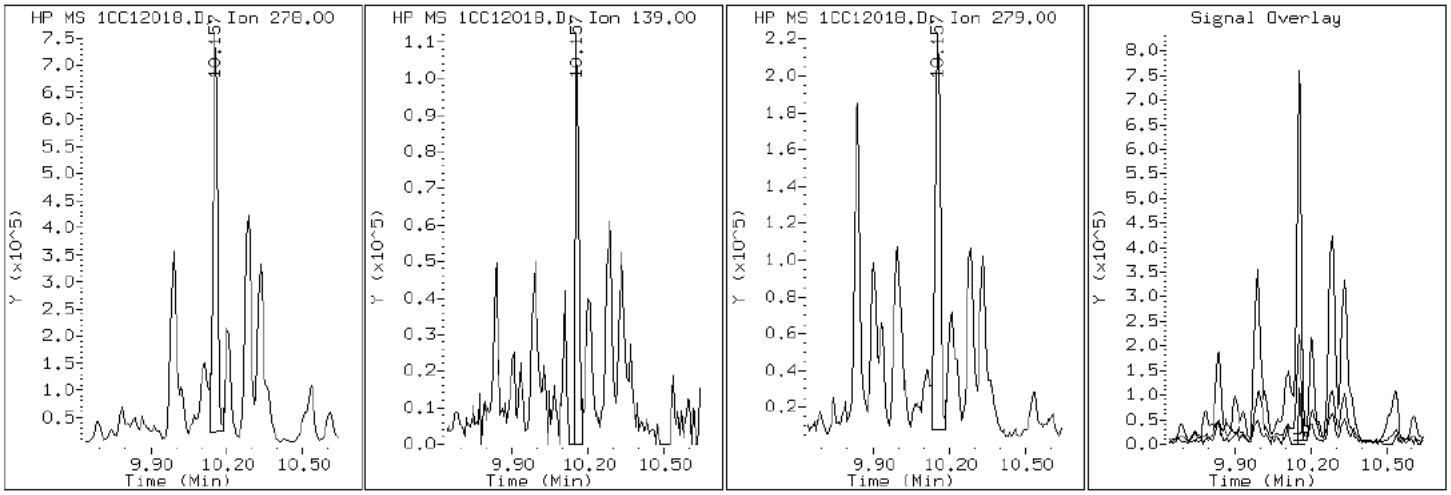
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



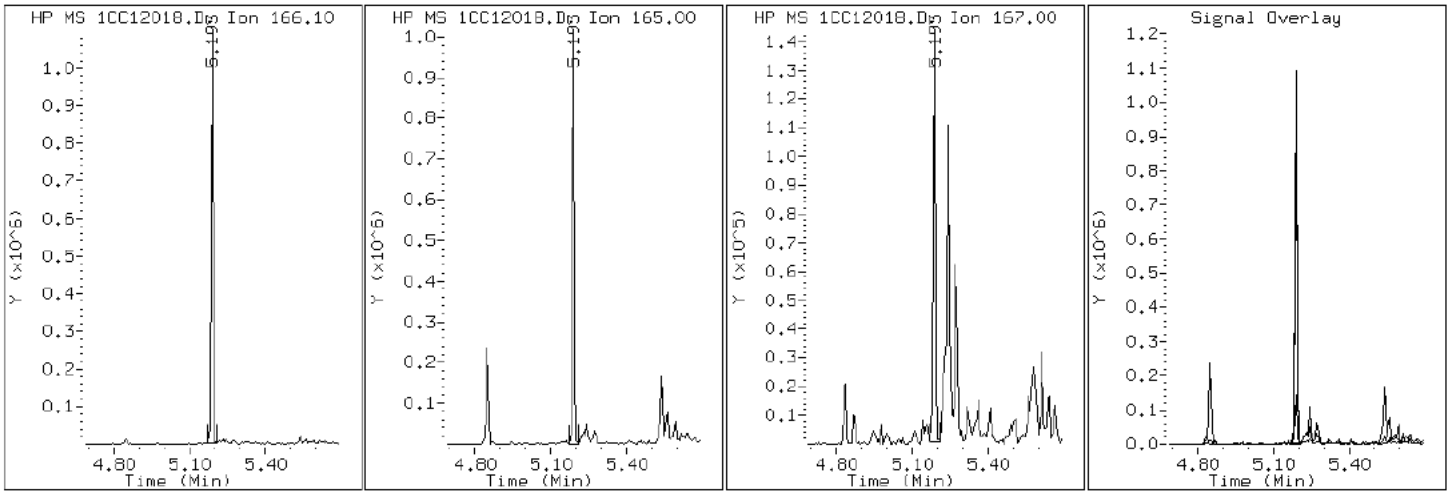
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

9 Fluorene



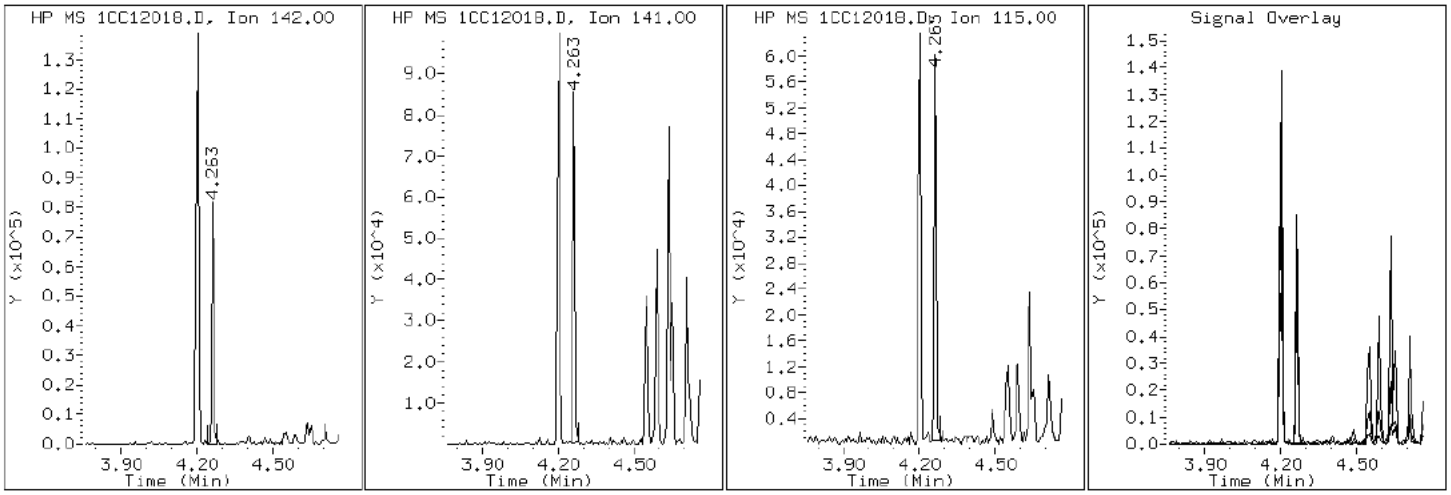
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

4 1-Methylnaphthalene



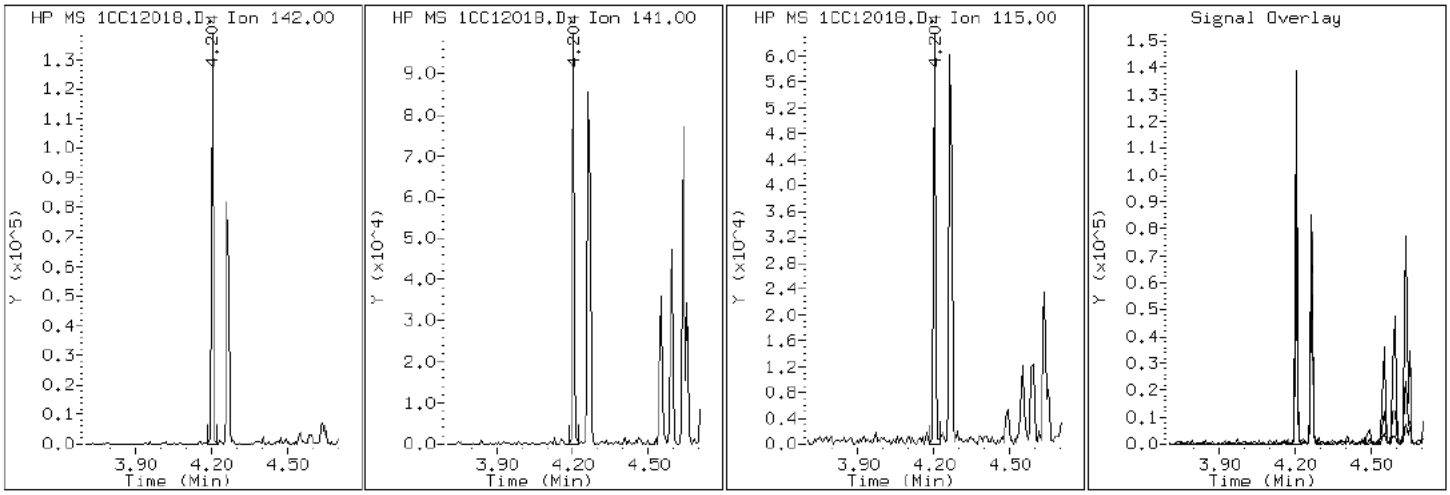
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

3 2-Methylnaphthalene



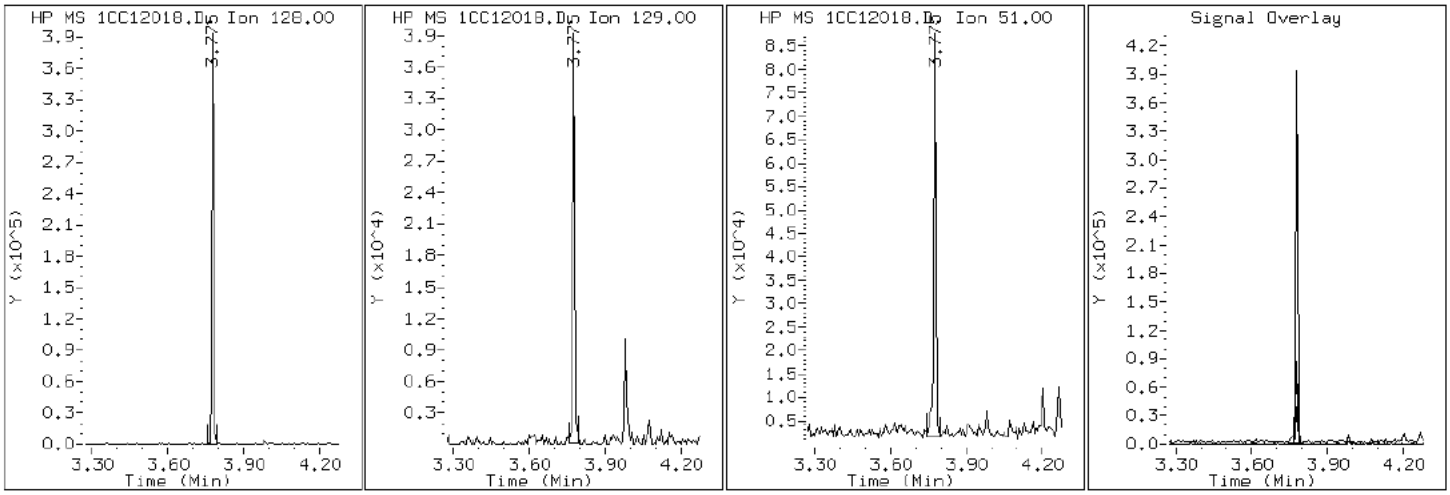
Data File: 1CC12018.D

Date: 12-MAR-2013 17:25

Client ID: HP0023A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-6-a Operator: SCC

2 Naphthalene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0023A-CS DL | Lab Sample ID: 680-88067-6 DL

Matrix: Solid | Lab File ID: 1DC14008.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:50

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

Sample wt/vol: 14.96(g) | Date Analyzed: 03/14/2013 12:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

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

% Moisture: 30.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	16000		240	120
56-55-3	Benzo[a]anthracene	42000		230	110
50-32-8	Benzo[a]pyrene	33000		300	150
205-99-2	Benzo[b]fluoranthene	52000		350	180
191-24-2	Benzo[g,h,i]perylene	23000		580	130
207-08-9	Benzo[k]fluoranthene	17000		230	100
218-01-9	Chrysene	36000		260	130
193-39-5	Indeno[1,2,3-cd]pyrene	21000		580	200
85-01-8	Phenanthrene	59000		230	110
129-00-0	Pyrene	68000		580	110

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\1DC14008.D
Lab Smp Id: 680-88067-A-6-A Client Smp ID: HP0023A-CS
Inj Date : 14-MAR-2013 12:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88067-A-6-A
Misc Info : 680-88067-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\dFASTPAHi.m
Meth Date : 14-Mar-2013 11:05 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 8
Dil Factor: 20.00000
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	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	30.493	% 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	6.143	6.143	(1.000)	3027383	40.0000	
* 6	Acenaphthene-d10	164	7.817	7.818	(1.000)	1936774	40.0000	
* 9	Phenanthrene-d10	188	9.080	9.081	(1.000)	3166253	40.0000	
$ 13	o-Terphenyl	230	9.386	9.393	(1.034)	12924	0.26395	510
* 17	Chrysene-d12	240	11.431	11.425	(1.000)	3299722	40.0000	
* 22	Perylene-d12	264	13.305	13.300	(1.000)	3542047	40.0000	
2	Naphthalene	128	6.160	6.167	(1.003)	92529	1.14255	2200
3	2-Methylnaphthalene	142	6.865	6.866	(1.118)	27401	0.53115	1000
4	1-Methylnaphthalene	142	6.959	6.960	(1.133)	22879	0.47360	910
5	Acenaphthylene	152	7.688	7.689	(0.983)	16633	0.19479	370
7	Acenaphthene	154	7.841	7.847	(1.003)	217365	4.17503	8000
8	Fluorene	166	8.287	8.288	(1.060)	199807	3.28472	6300
10	Phenanthrene	178	9.104	9.099	(1.003)	2771871	30.8399	59000
11	Anthracene	178	9.139	9.140	(1.006)	729822	8.11577	16000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.274	9.281	(1.021)	371751	4.62433	8900
14 Fluoranthene	202	10.091	10.086	(1.111)	4708037	50.1945	96000(A)
15 Pyrene	202	10.279	10.274	(0.899)	3610783	35.2773	68000
16 Benzo(a)anthracene	228	11.407	11.402	(0.998)	1958472	21.6791	42000
18 Chrysene	228	11.454	11.455	(1.002)	1732992	18.5812	36000
19 Benzo(b)fluoranthene	252	12.753	12.742	(0.958)	2441836	26.7829	52000
20 Benzo(k)fluoranthene	252	12.776	12.783	(0.960)	834859	8.74567	17000
21 Benzo(a)pyrene	252	13.205	13.200	(0.992)	1550178	17.1819	33000
23 Indeno(1,2,3-cd)pyrene	276	14.915	14.921	(1.121)	1047684	10.8813	21000(M)
24 Dibenzo(a,h)anthracene	278	14.932	14.951	(1.122)	289977	3.26111	6300
25 Benzo(g,h,i)perylene	276	15.373	15.380	(1.155)	1102593	12.0108	23000

QC Flag Legend

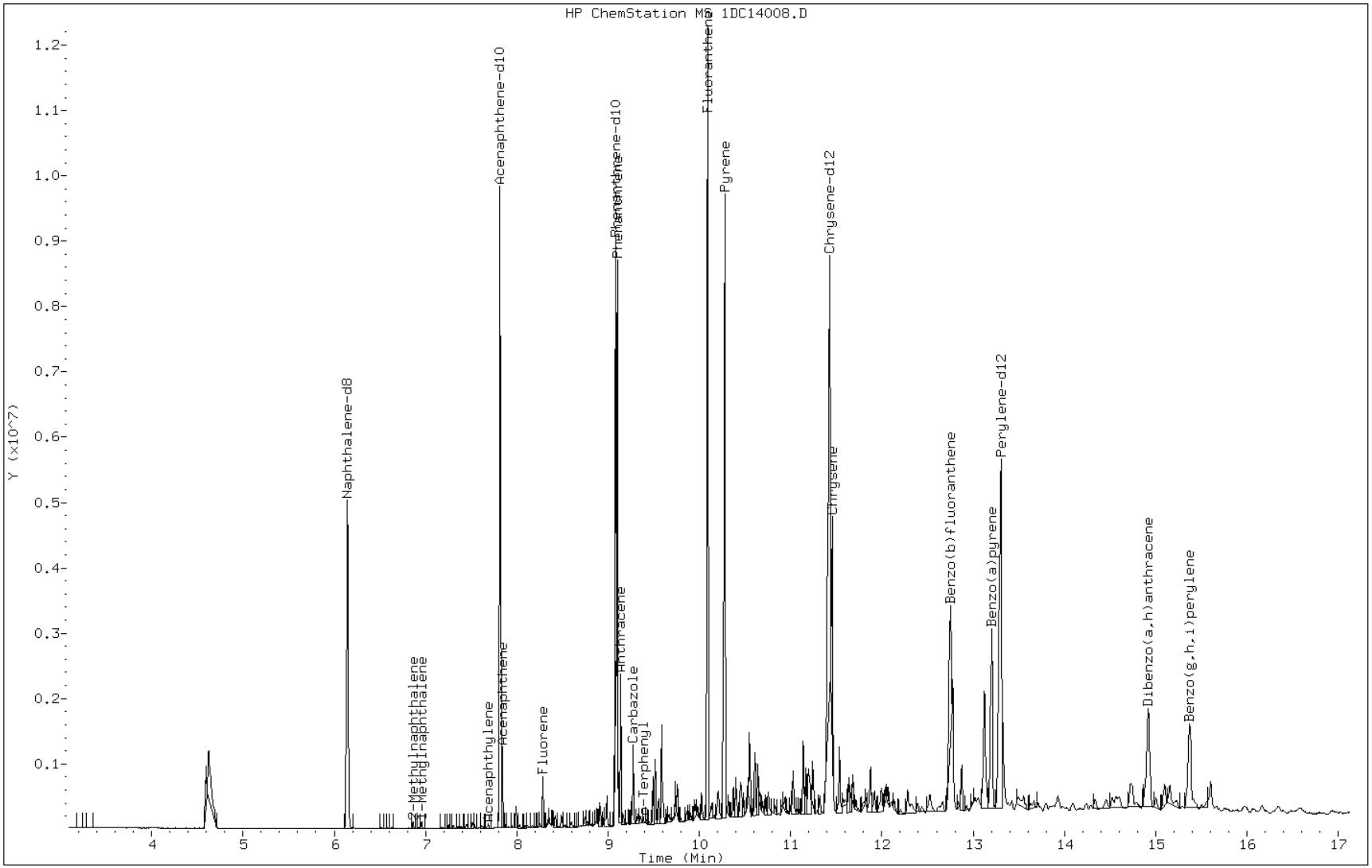
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC



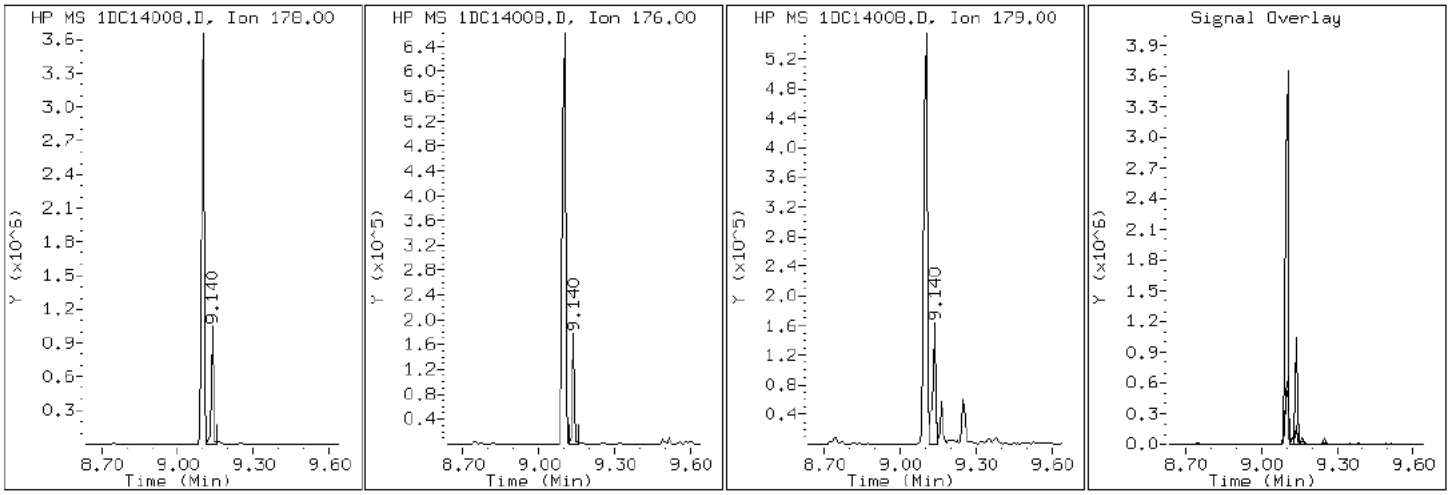
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

11 Anthracene



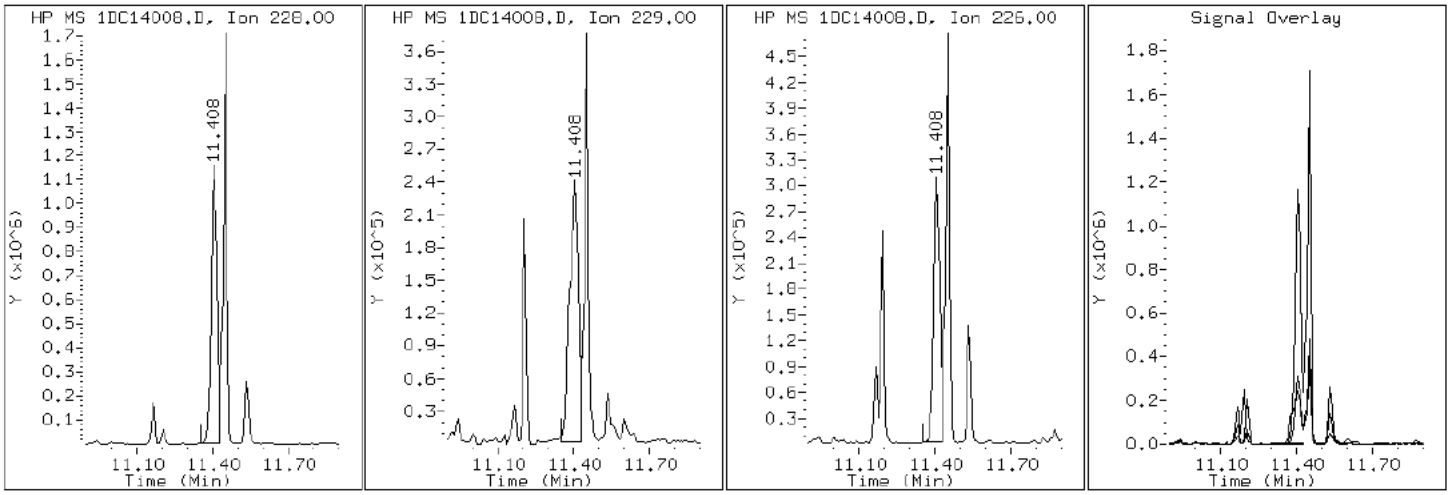
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

16 Benzo(a)anthracene



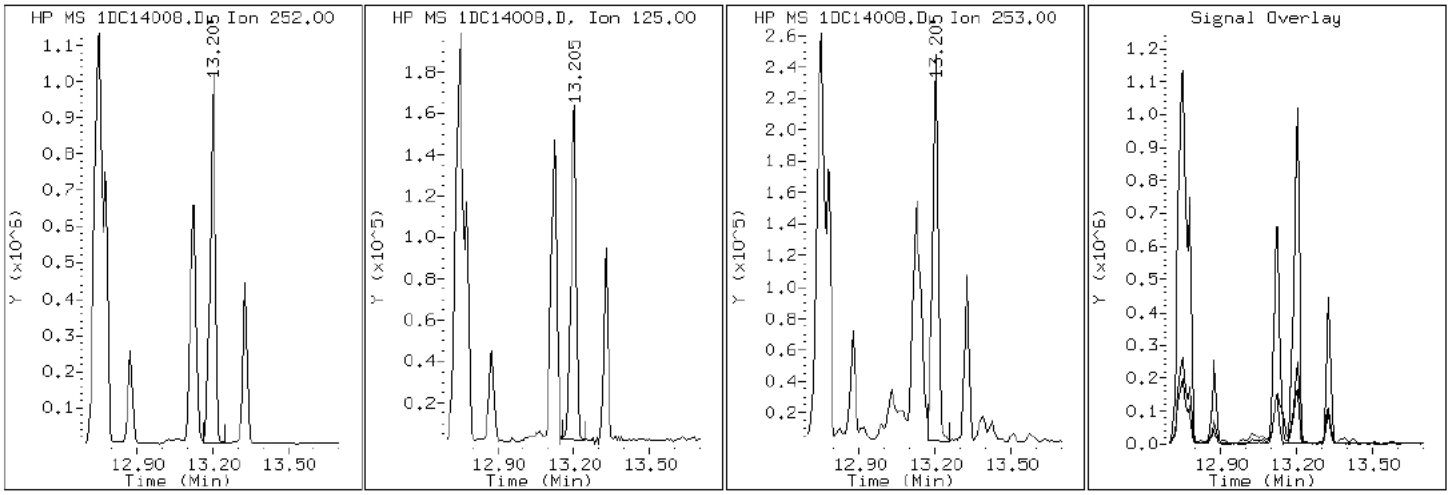
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

21 Benzo(a)pyrene



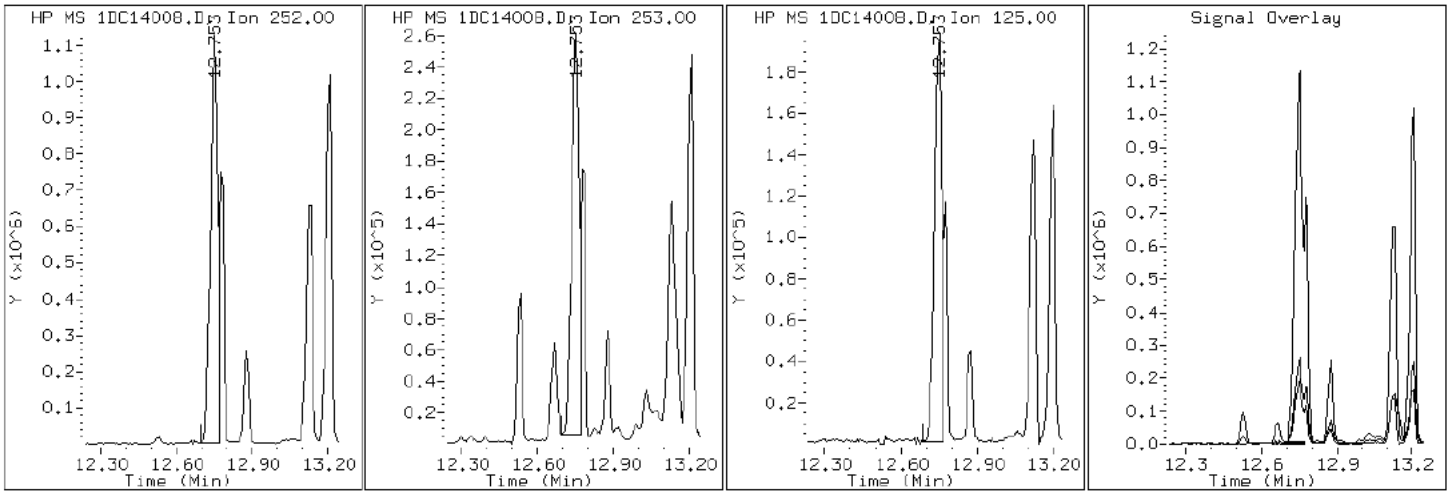
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

19 Benzo(b)fluoranthene



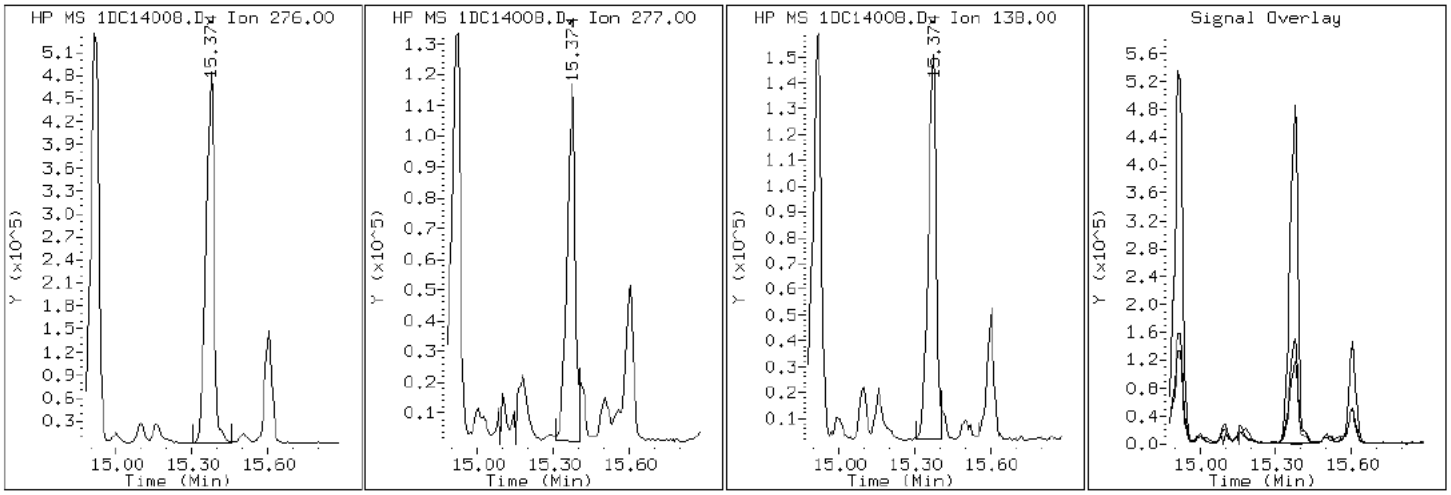
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

25 Benzo(g,h,i)perylene



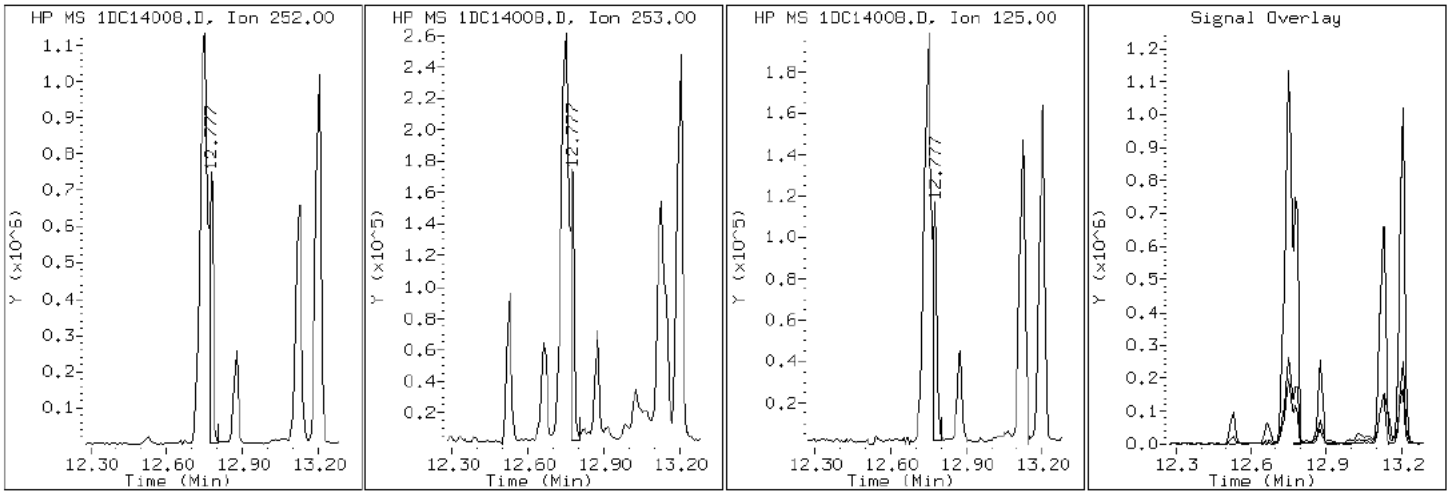
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

20 Benzo(k)fluoranthene



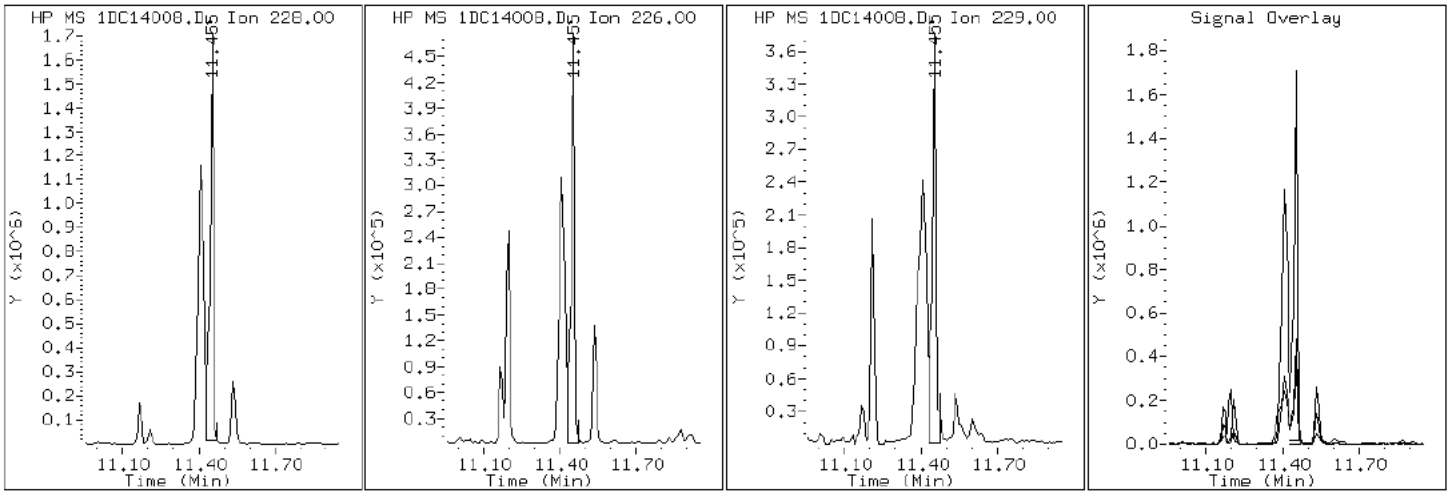
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

18 Chrysene



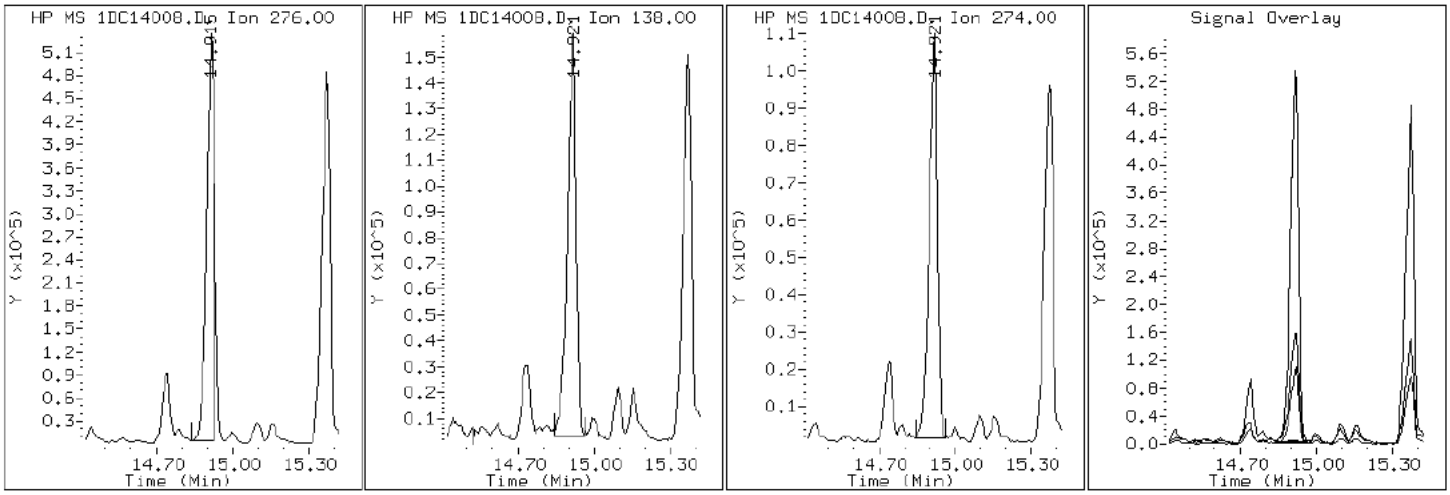
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

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



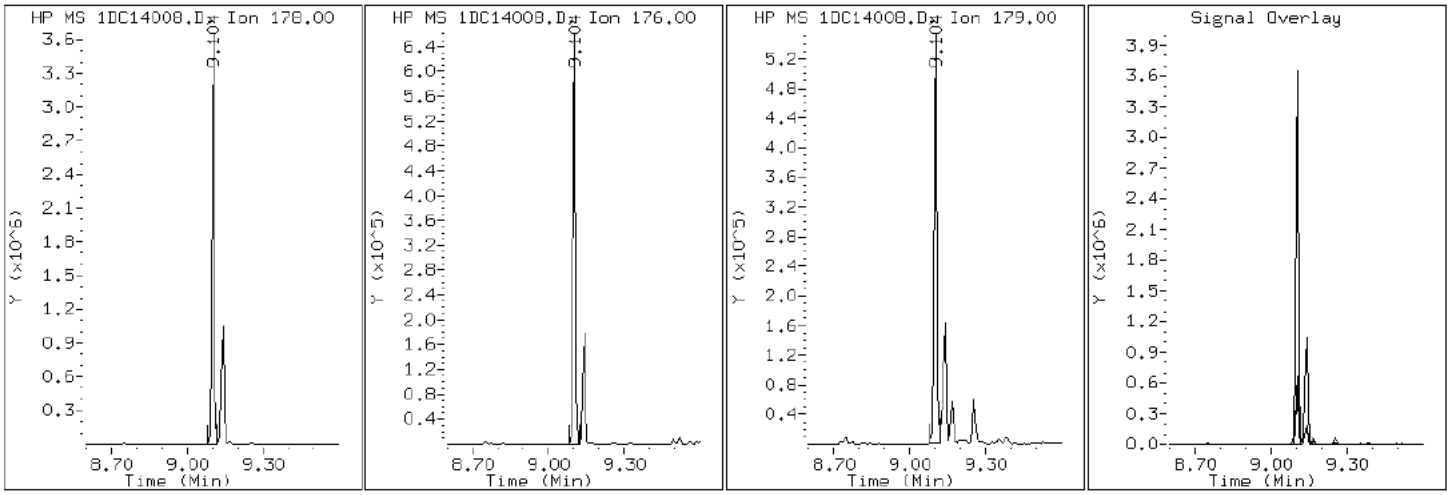
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

10 Phenanthrene



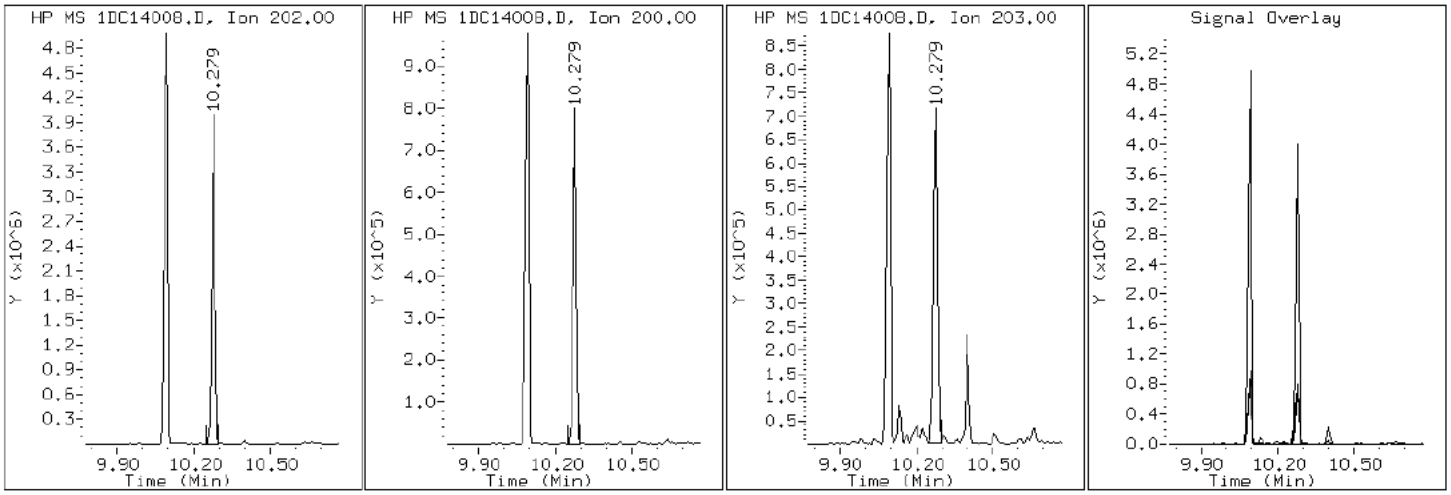
Data File: 1DC14008.D

Date: 14-MAR-2013 12:40

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DC14008.D
Inj. Date and Time: 14-MAR-2013 12:40
Instrument ID: BSMSD.i
Client ID: HP0023A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/14/2013

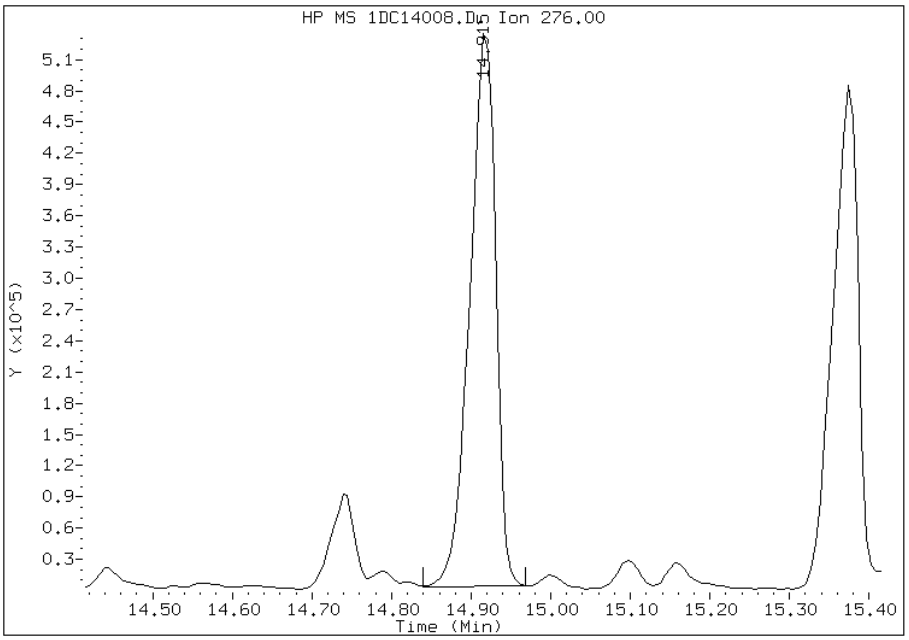
Processing Integration Results

RT: 14.92

Response: 1190510

Amount: 12

Conc: 23782



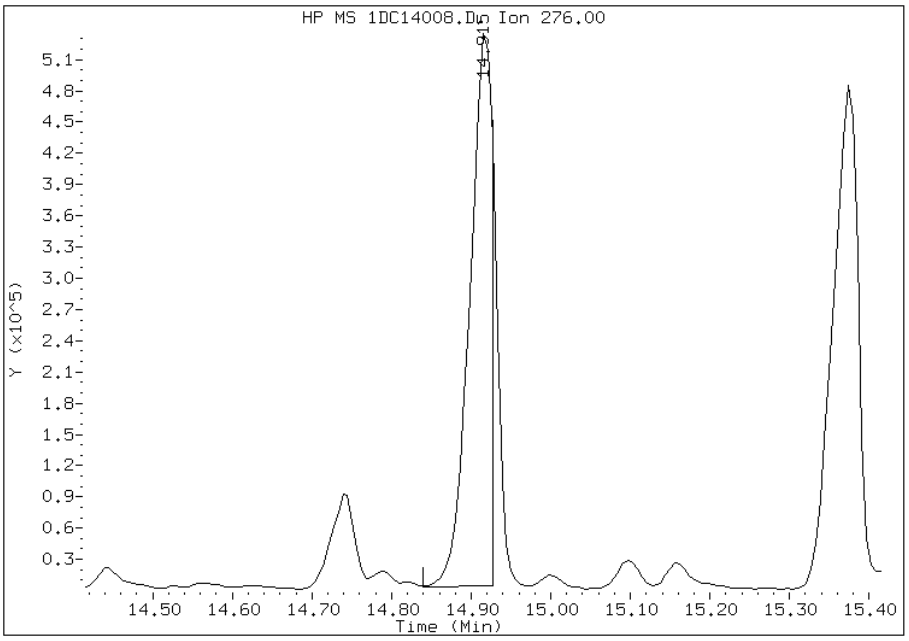
Manual Integration Results

RT: 14.92

Response: 1047684

Amount: 11

Conc: 20929



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 13:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0023A-CS DL2 | Lab Sample ID: 680-88067-6 DL2

Matrix: Solid | Lab File ID: 1DC14012.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:50

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

Sample wt/vol: 14.96(g) | Date Analyzed: 03/14/2013 14:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

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

% Moisture: 30.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135407 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	110000		1400	290

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\1DC14012.D
Lab Smp Id: 680-88067-A-6-A Client Smp ID: HP0023A-CS
Inj Date : 14-MAR-2013 14:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88067-A-6-A
Misc Info : 680-88067-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\dFASTPAHi.m
Meth Date : 14-Mar-2013 11:05 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 12
Dil Factor: 50.00000
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	50.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	30.493	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.143	6.143	(1.000)	3059817	40.0000	
* 6	Acenaphthene-d10	164	7.817	7.818	(1.000)	1914131	40.0000	
* 9	Phenanthrene-d10	188	9.081	9.081	(1.000)	3166665	40.0000	
$ 13	o-Terphenyl	230	9.386	9.393	(1.034)	5989	0.12230	590
* 17	Chrysene-d12	240	11.425	11.425	(1.000)	3206747	40.0000	
* 22	Perylene-d12	264	13.299	13.300	(1.000)	3375548	40.0000	
2	Naphthalene	128	6.166	6.167	(1.004)	43612	0.53281	2600
3	2-Methylnaphthalene	142	6.866	6.866	(1.118)	12388	0.23759	1100
4	1-Methylnaphthalene	142	6.960	6.960	(1.133)	10582	0.21673	1000
5	Acenaphthylene	152	7.688	7.689	(0.983)	7870	0.09326	450
7	Acenaphthene	154	7.841	7.847	(1.003)	98636	1.91696	9200
8	Fluorene	166	8.287	8.288	(1.060)	90379	1.50336	7200
10	Phenanthrene	178	9.098	9.099	(1.002)	1263964	14.0611	68000
11	Anthracene	178	9.139	9.140	(1.006)	333346	3.70639	18000

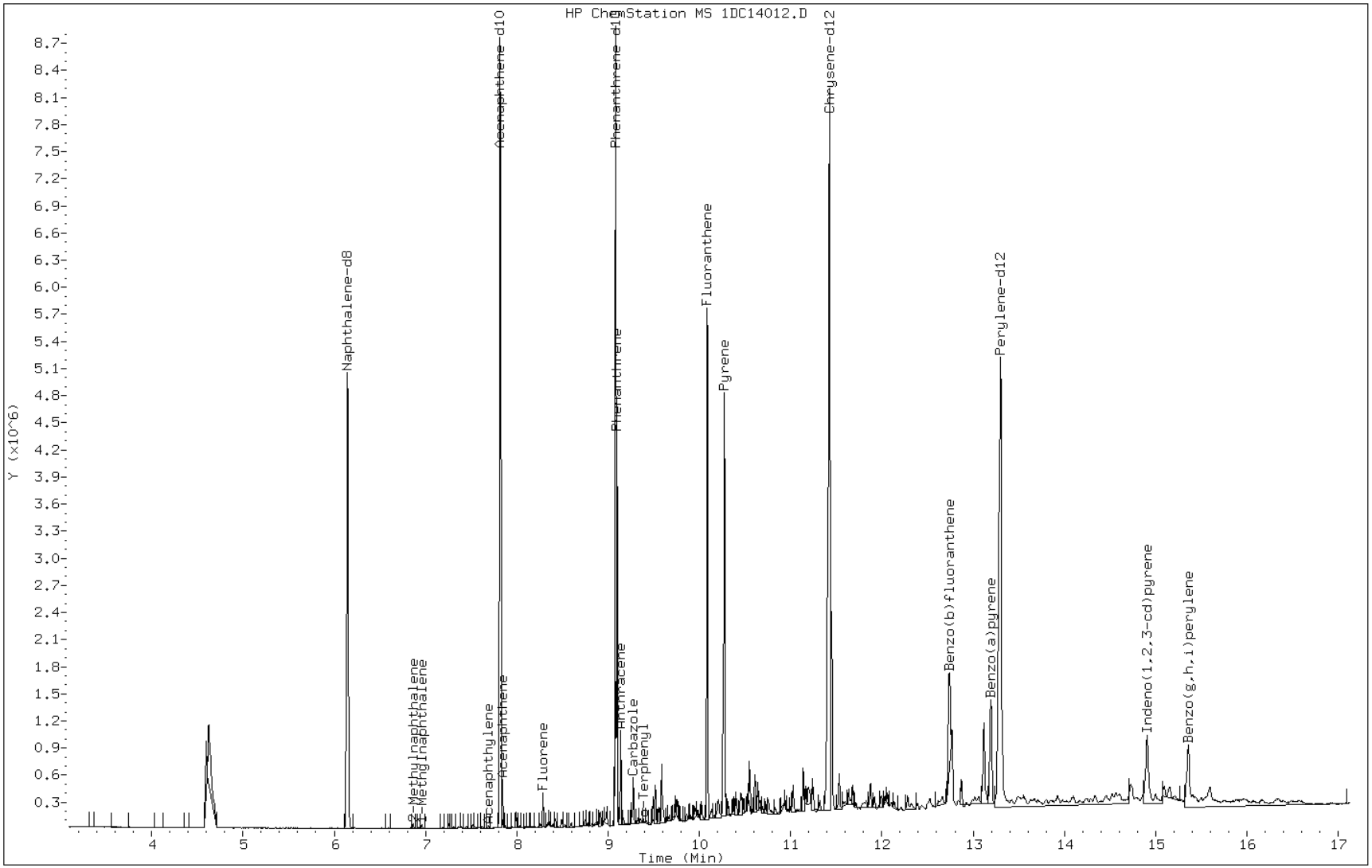
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
12 Carbazole	167	9.274	9.281	(1.021)	163313	2.03124	9800
14 Fluoranthene	202	10.091	10.086	(1.111)	2110903	22.5024	110000
15 Pyrene	202	10.273	10.274	(0.899)	1622524	16.3116	78000
16 Benzo(a)anthracene	228	11.407	11.402	(0.998)	889545	10.1322	49000
18 Chrysene	228	11.448	11.455	(1.002)	763555	8.42425	40000
19 Benzo(b)fluoranthene	252	12.741	12.742	(0.958)	992557	11.4237	55000
20 Benzo(k)fluoranthene	252	12.770	12.783	(0.960)	413058	4.54047	22000
21 Benzo(a)pyrene	252	13.193	13.200	(0.992)	664419	7.72753	37000
23 Indeno(1,2,3-cd)pyrene	276	14.903	14.921	(1.121)	499244	5.44092	26000
24 Dibenzo(a,h)anthracene	278	14.921	14.951	(1.122)	121720	1.43639	6900
25 Benzo(g,h,i)perylene	276	15.361	15.380	(1.155)	449464	5.13761	25000

Data File: 1DC14012.D

Date: 14-MAR-2013 14:10

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC



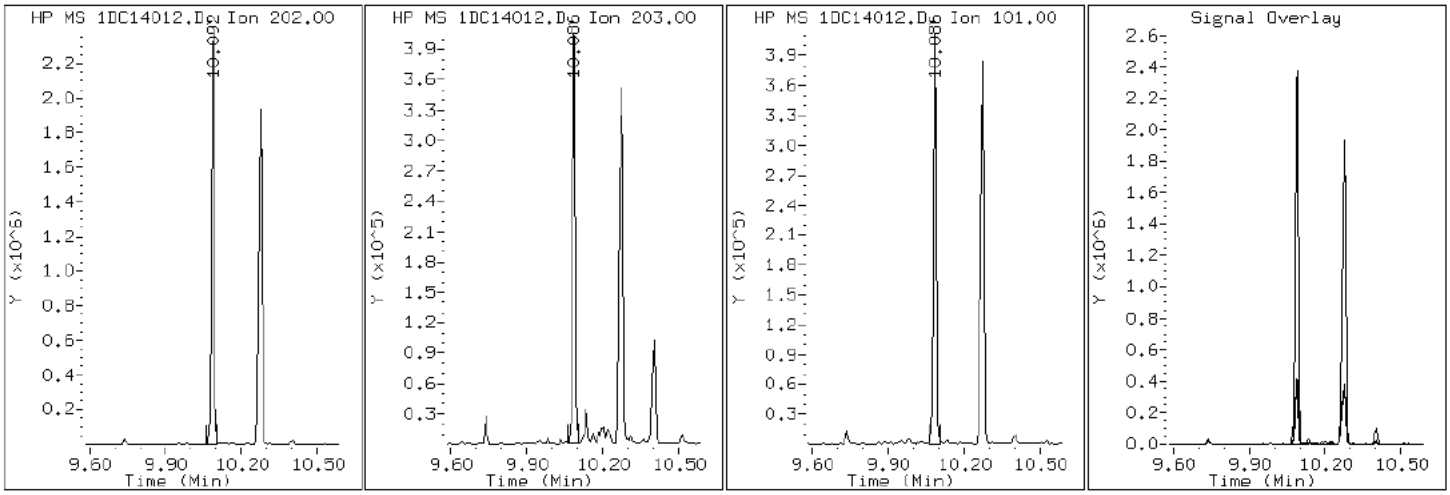
Data File: 1DC14012.D

Date: 14-MAR-2013 14:10

Client ID: HP0023A-CS Instrument: BSMSD.i

Sample Info: 680-88067-A-6-A Operator: SCC

14 Fluoranthene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0023B-CS | Lab Sample ID: 680-88067-7

Matrix: Solid | Lab File ID: 1CC12019.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 11:00

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

Sample wt/vol: 15.07(g) | Date Analyzed: 03/12/2013 17:43

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

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

% Moisture: 32.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	J	590	120
208-96-8	Acenaphthylene	230	U	230	29
120-12-7	Anthracene	260		49	25
56-55-3	Benzo[a]anthracene	620		47	23
50-32-8	Benzo[a]pyrene	510		61	30
205-99-2	Benzo[b]fluoranthene	830		71	36
191-24-2	Benzo[g,h,i]perylene	410		120	26
207-08-9	Benzo[k]fluoranthene	350		47	21
218-01-9	Chrysene	610		53	26
53-70-3	Dibenz(a,h)anthracene	90	J	120	24
206-44-0	Fluoranthene	1200		120	23
86-73-7	Fluorene	110	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	370		120	42
90-12-0	1-Methylnaphthalene	110	J	230	26
91-57-6	2-Methylnaphthalene	100	J	230	42
91-20-3	Naphthalene	150	J	230	26
85-01-8	Phenanthrene	930		47	23
129-00-0	Pyrene	1000		120	22

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12019.D
Lab Smp Id: 680-88067-A-7-A Client Smp ID: HP0023B-CS
Inj Date : 12-MAR-2013 17:43
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-7-a
Misc Info : 680-88067-A-7-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: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	31.963	% 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)	1441199	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1155163	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	2106920	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	60116	1.88979	737.2566
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2265785	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	2073287	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	14276	0.38049	148.4396
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	6609	0.26407	103.0207
	4 1-Methylnaphthalene	142	4.268	4.263	(1.134)	6478	0.28420	110.8729
	7 Acenaphthene	154	4.868	4.868	(1.004)	9682	0.33447	130.4846
	9 Fluorene	166	5.192	5.192	(1.070)	10069	0.27504	107.2999
	11 Phenanthrene	178	5.815	5.815	(1.002)	145972	2.39602	934.7471
	12 Anthracene	178	5.851	5.851	(1.008)	39855	0.66891	260.9584
	13 Carbazole	167	5.957	5.957	(1.026)	22065	0.41660	162.5267

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.656	6.657	(1.147)	211065	3.16355	1234.1807
16 Pyrene	202	6.821	6.827	(0.881)	159323	2.61658	1020.7963
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	103270	1.57917	616.0765
19 Chrysene	228	7.762	7.768	(1.002)	103136	1.57594	614.8153
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	114959	2.12169	827.7266(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	49262	0.88628	345.7596(M)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	68849	1.30819	510.3591
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	46931	0.94793	369.8104(M)
25 Dibenzo(a,h)anthracene	278	10.145	10.145	(1.134)	11116	0.22954	89.5502
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	54985	1.06168	414.1874(M)

QC Flag Legend

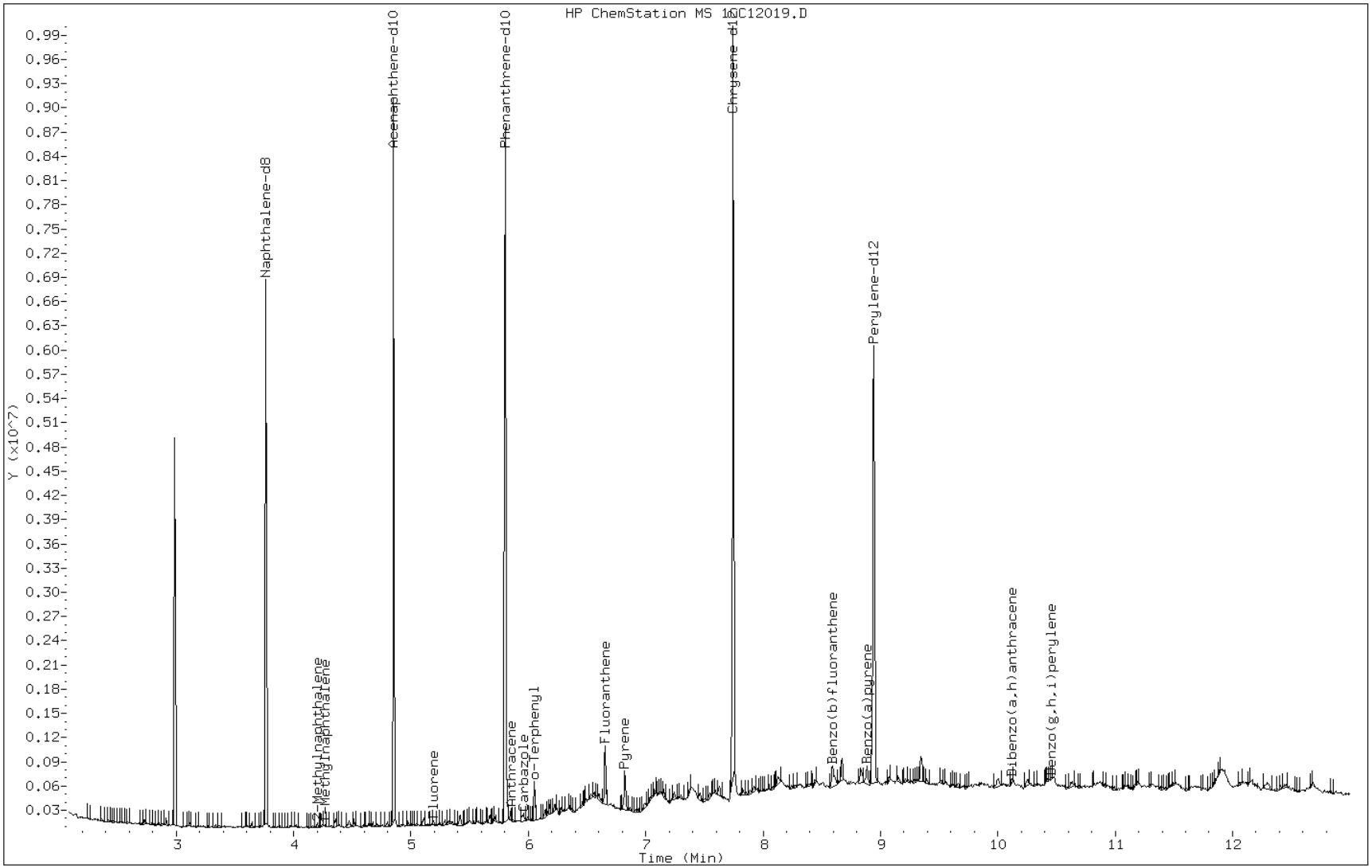
M - Compound response manually integrated.

Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC



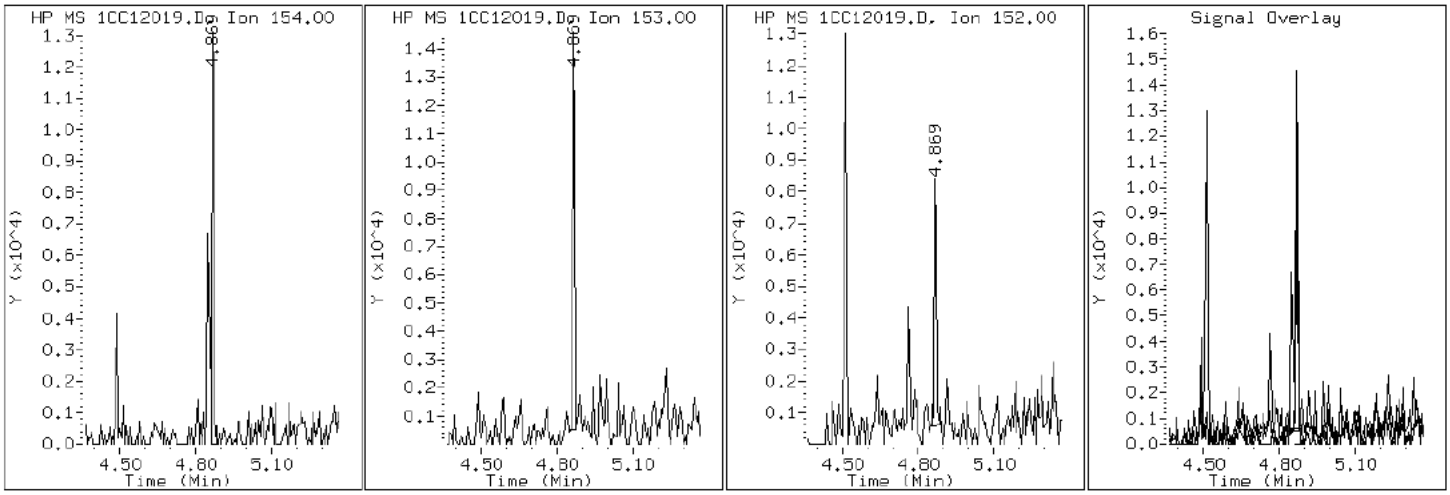
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

7 Acenaphthene



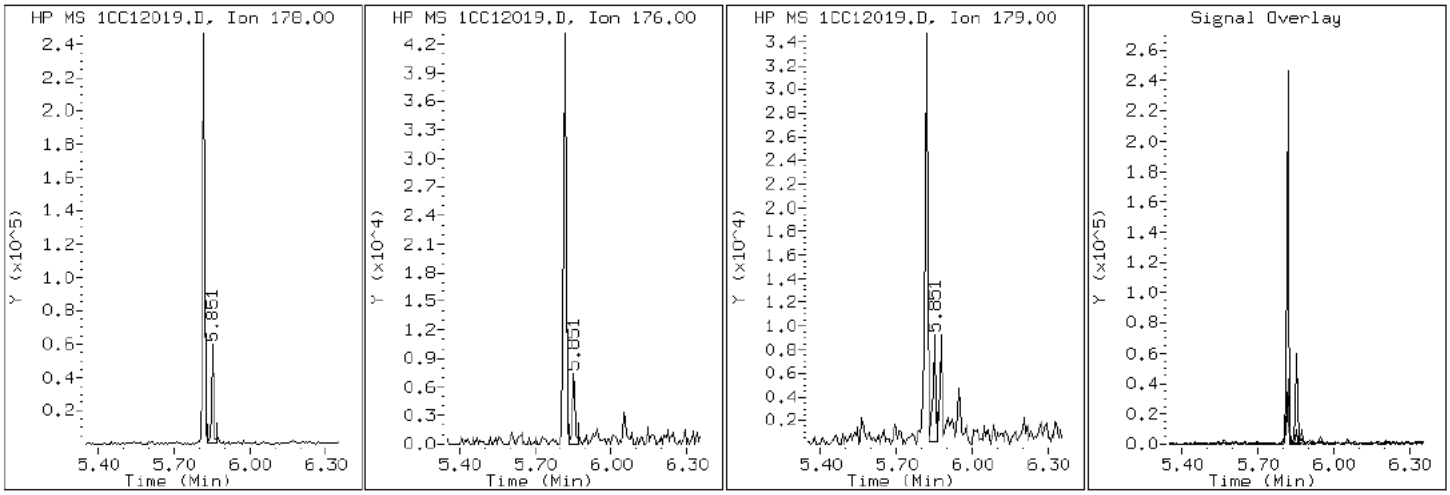
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

12 Anthracene



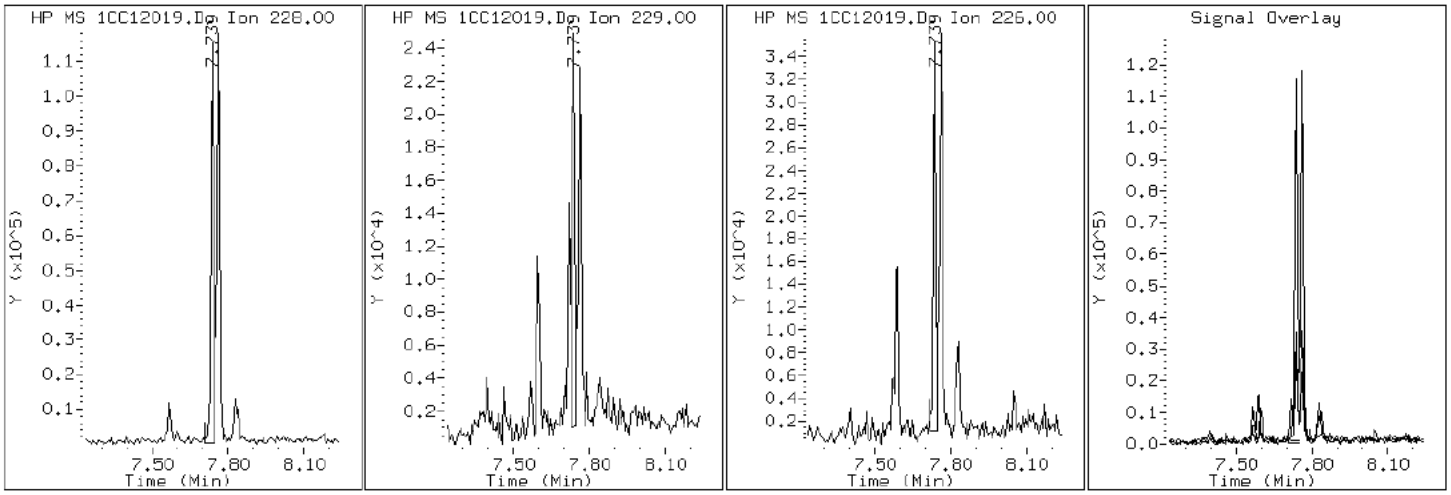
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

17 Benzo(a)anthracene



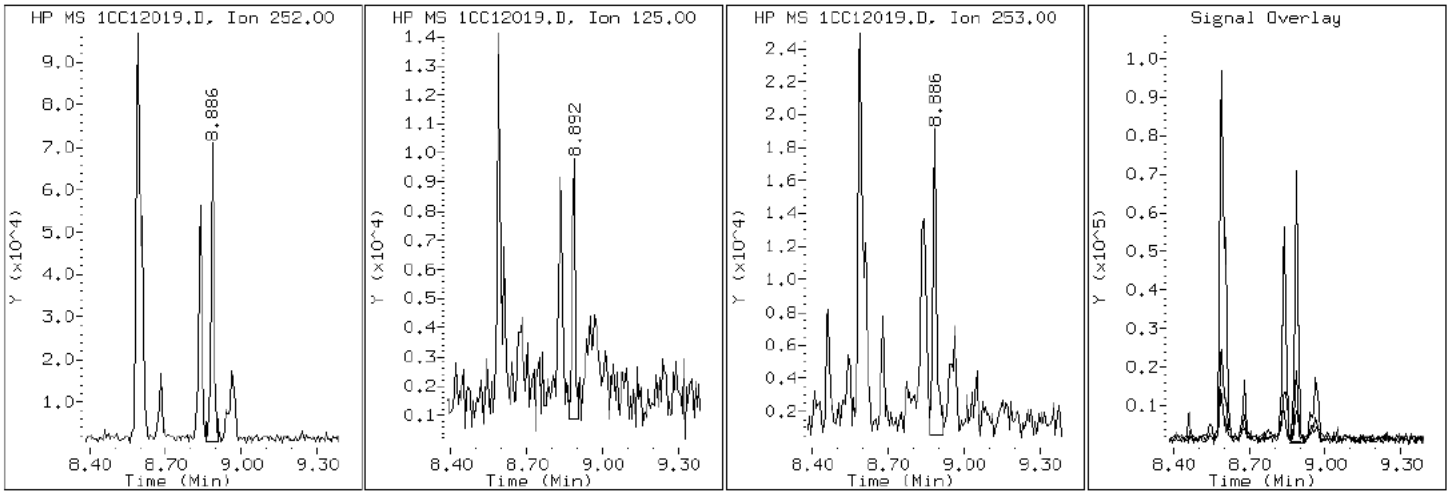
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

22 Benzo(a)pyrene



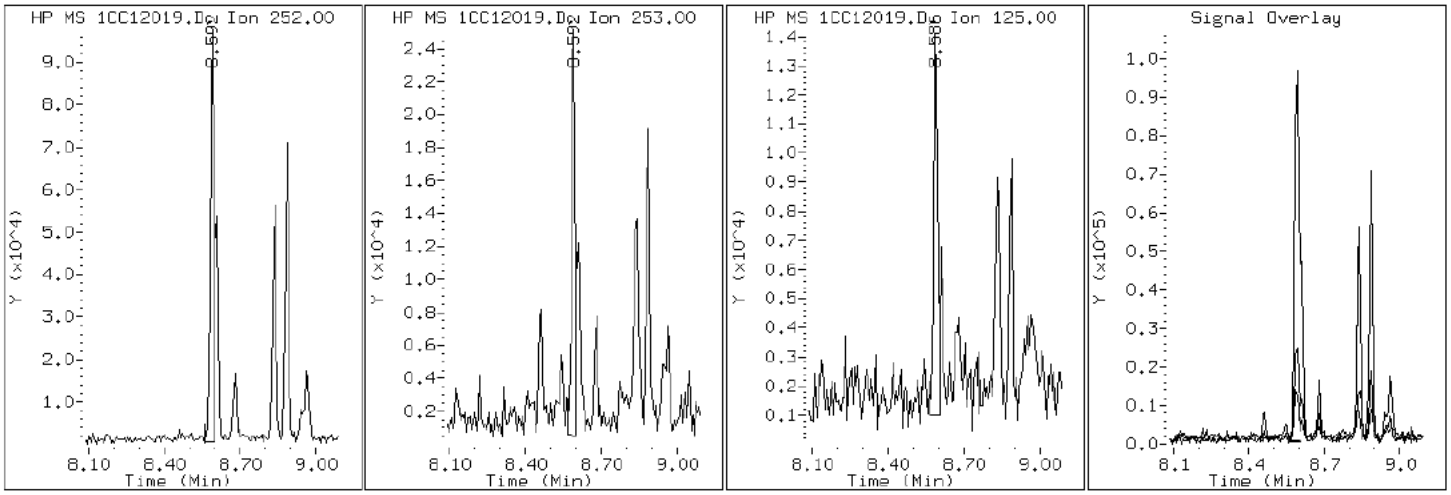
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



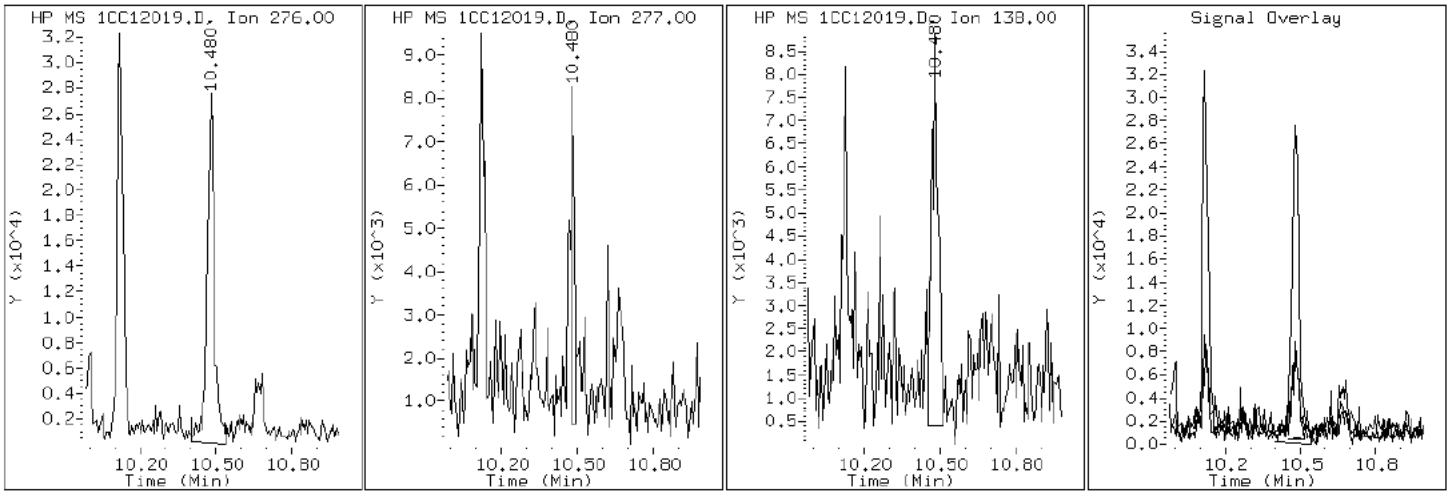
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



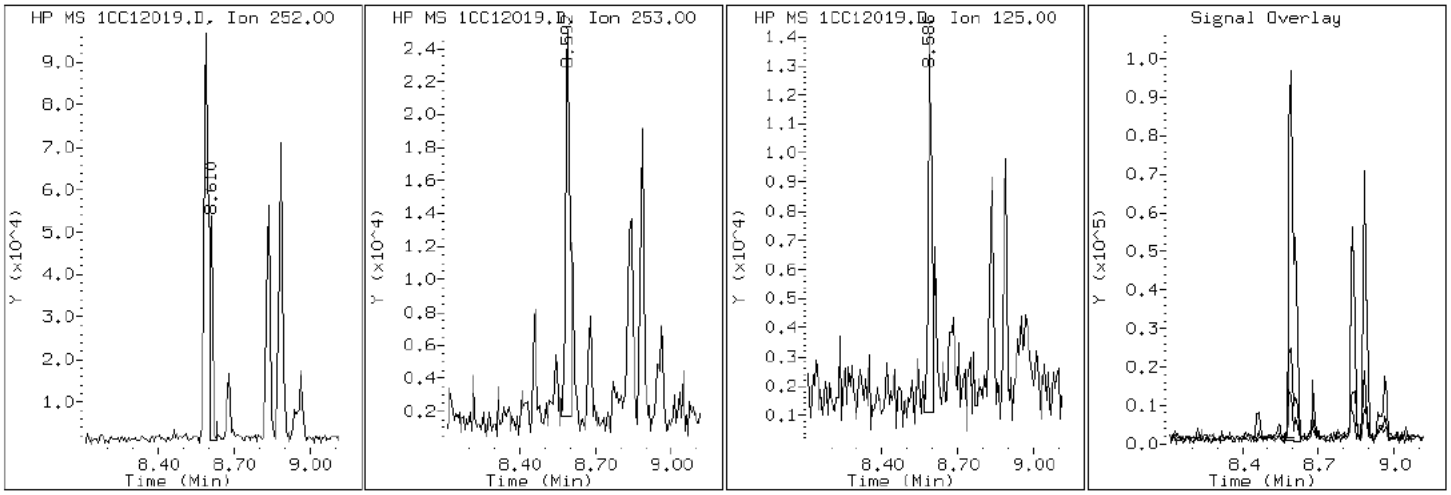
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



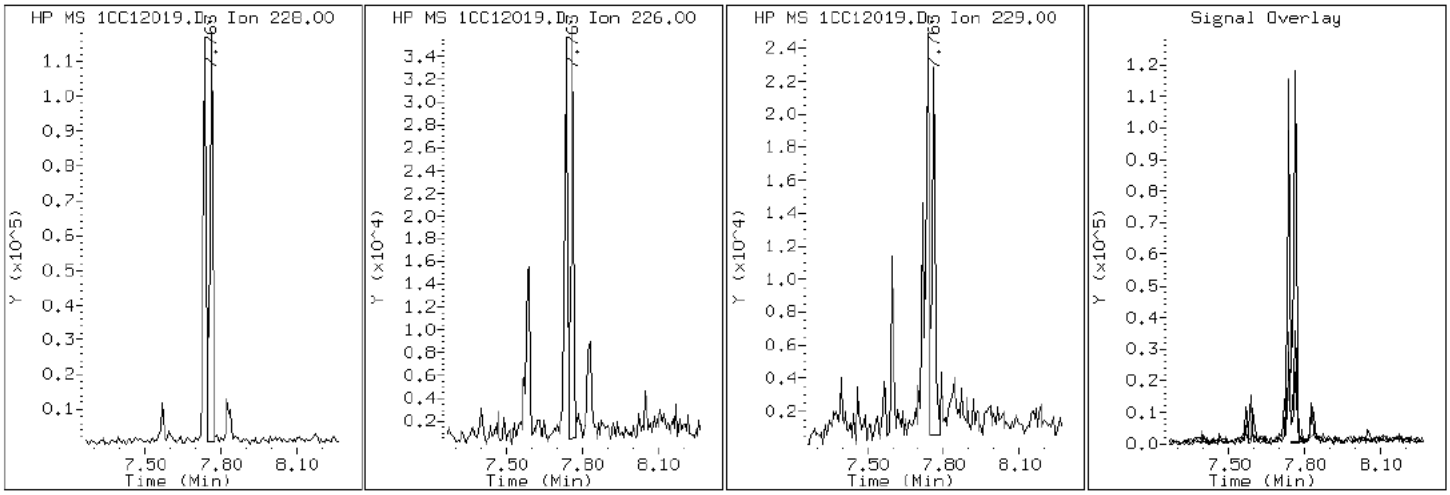
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

19 Chrysene



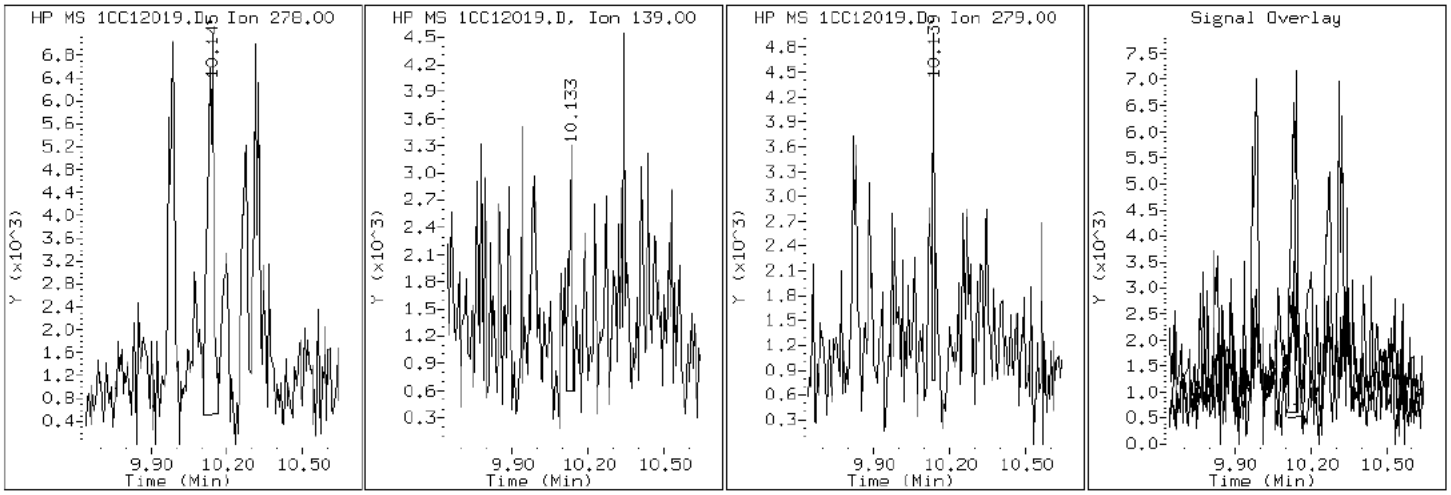
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



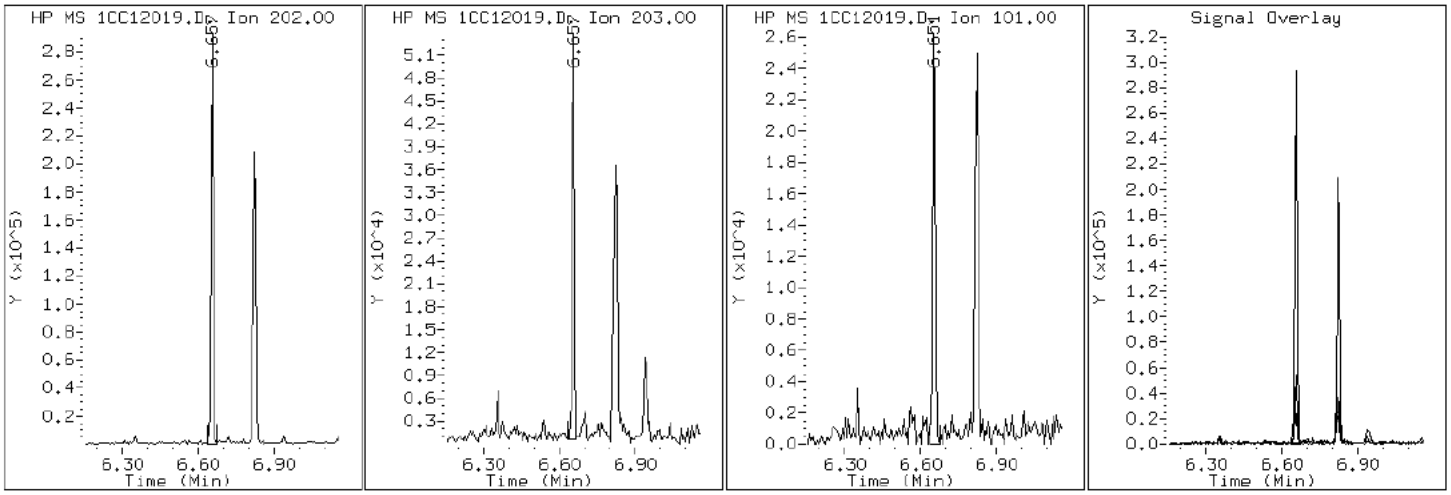
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

15 Fluoranthene



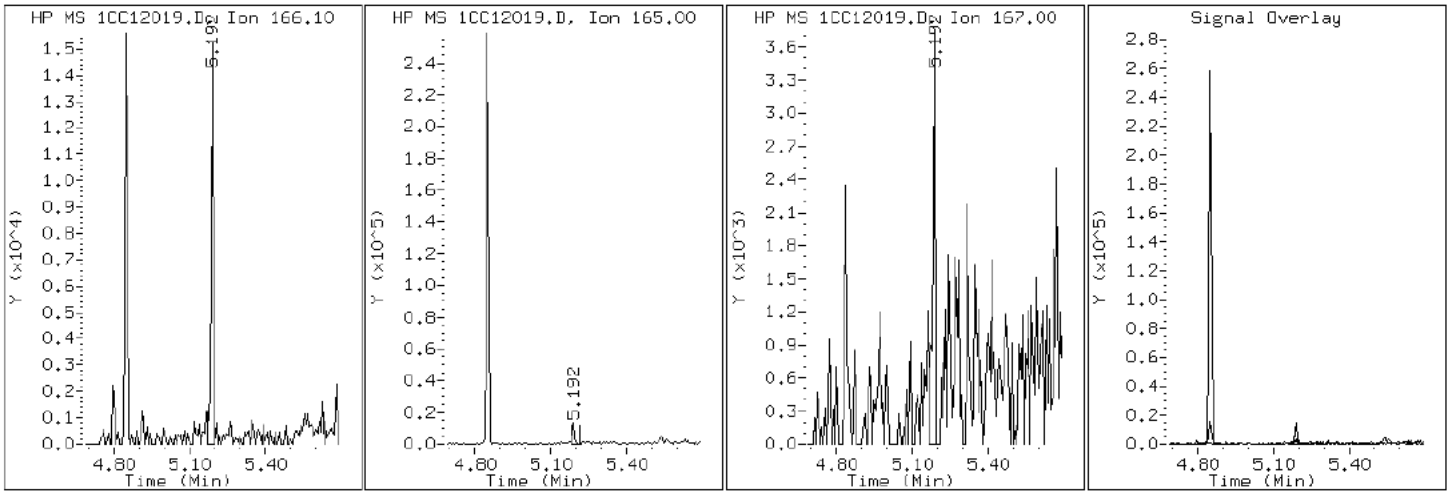
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

9 Fluorene



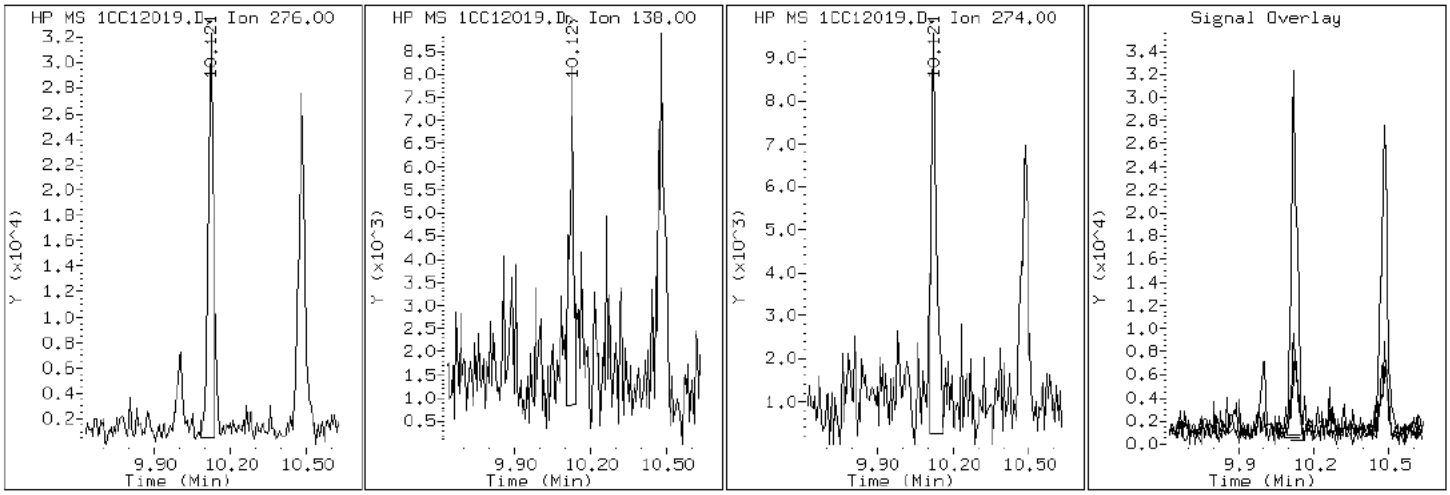
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

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



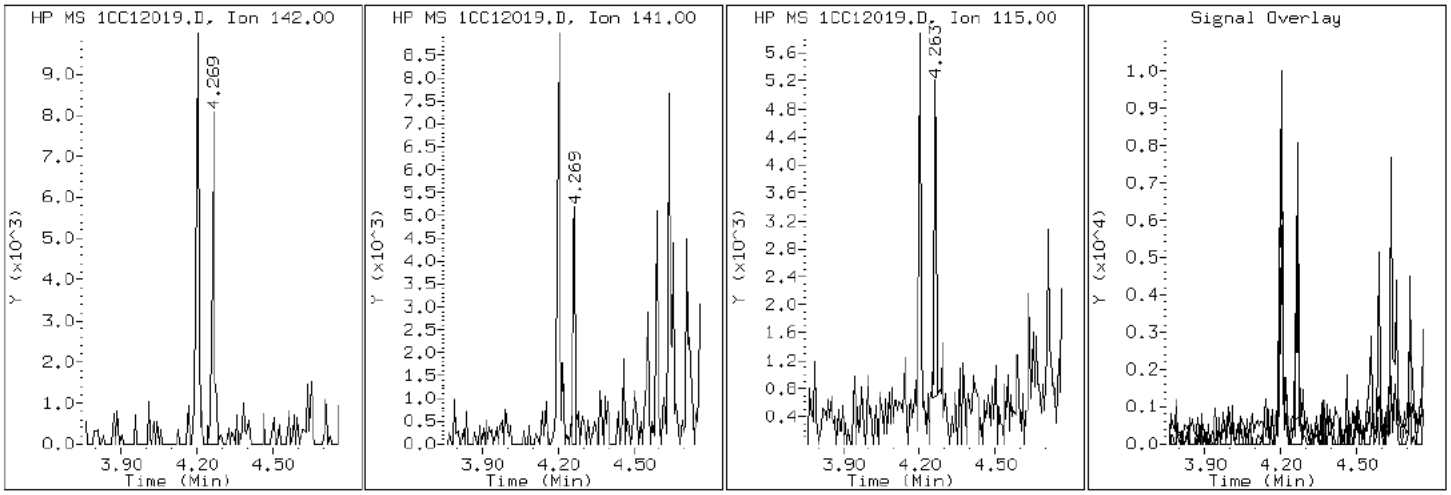
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

4 1-Methylnaphthalene



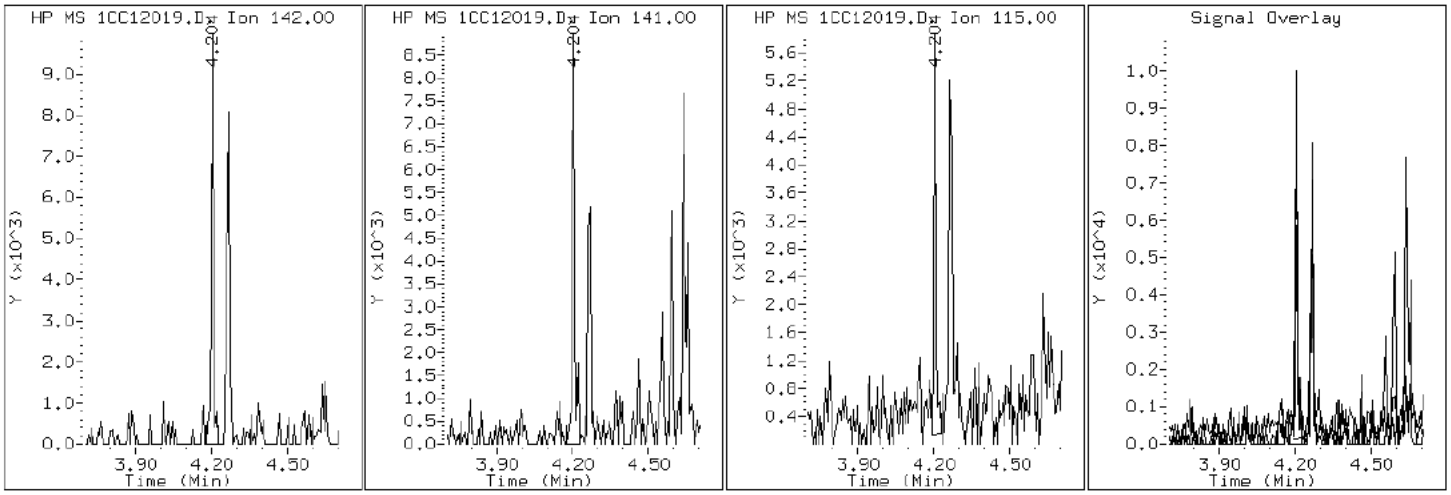
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

3 2-Methylnaphthalene



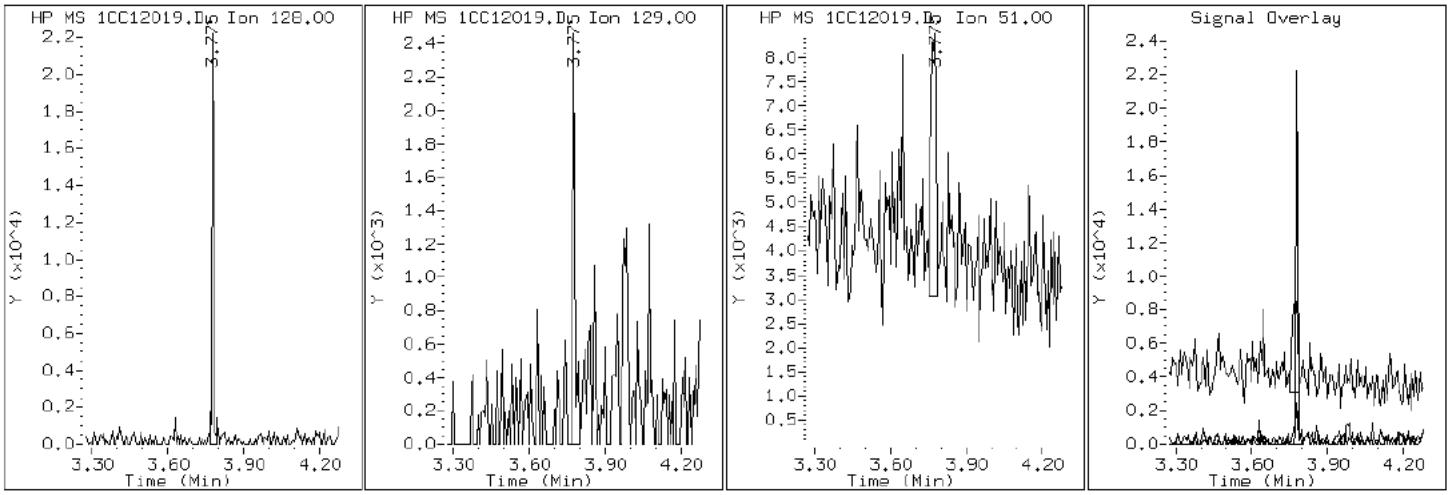
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

2 Naphthalene



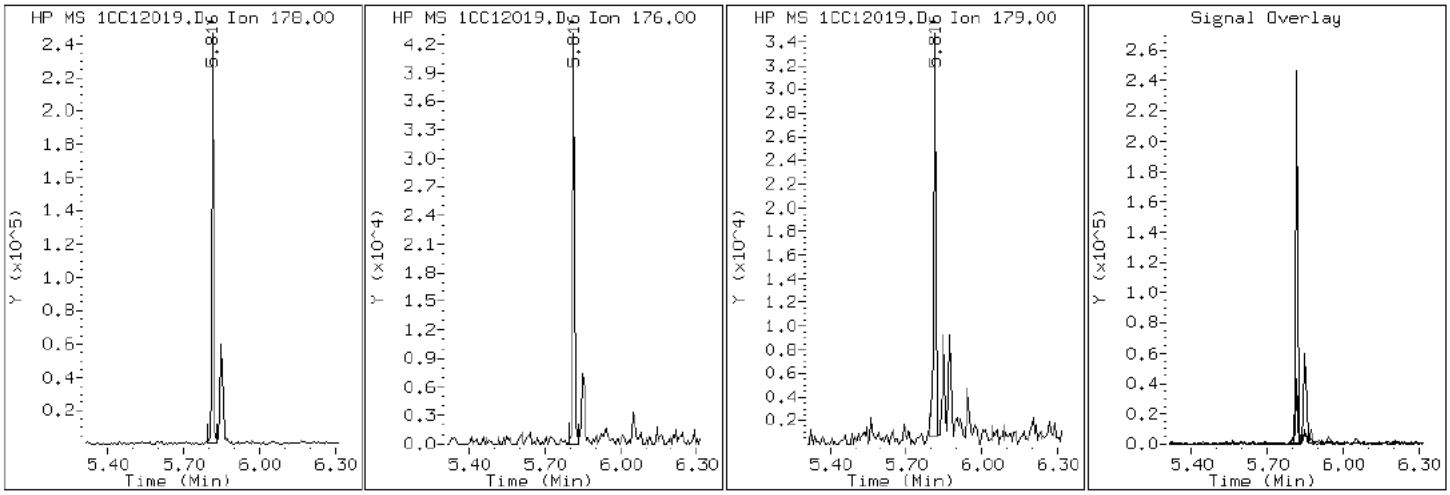
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

11 Phenanthrene



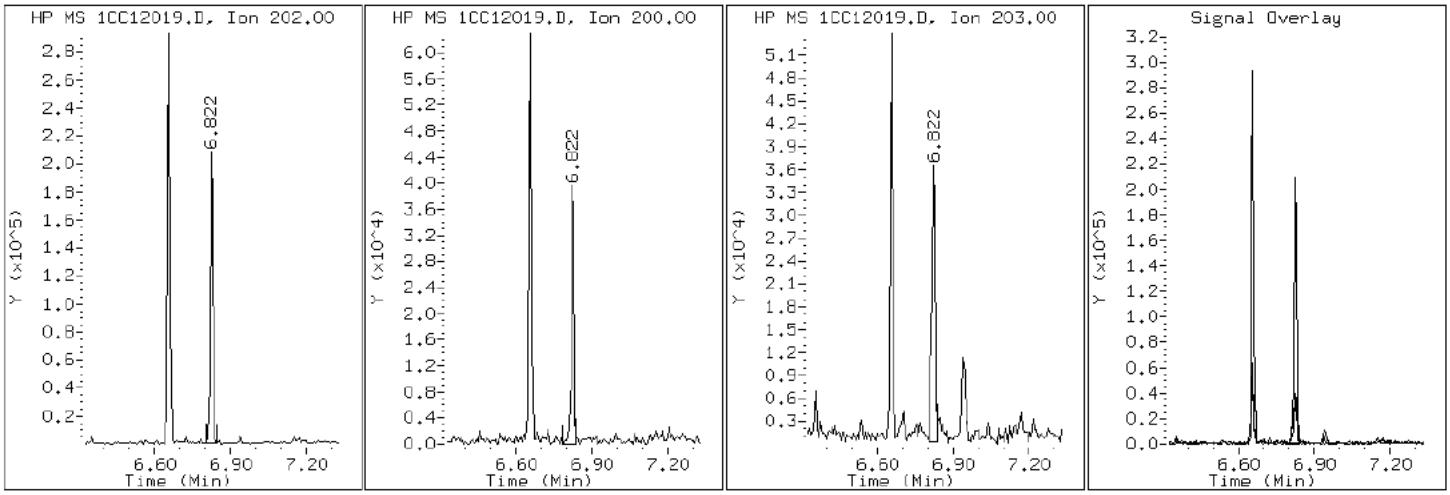
Data File: 1CC12019.D

Date: 12-MAR-2013 17:43

Client ID: HP0023B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12019.D
Inj. Date and Time: 12-MAR-2013 17:43
Instrument ID: BSMC5973.i
Client ID: HP0023B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

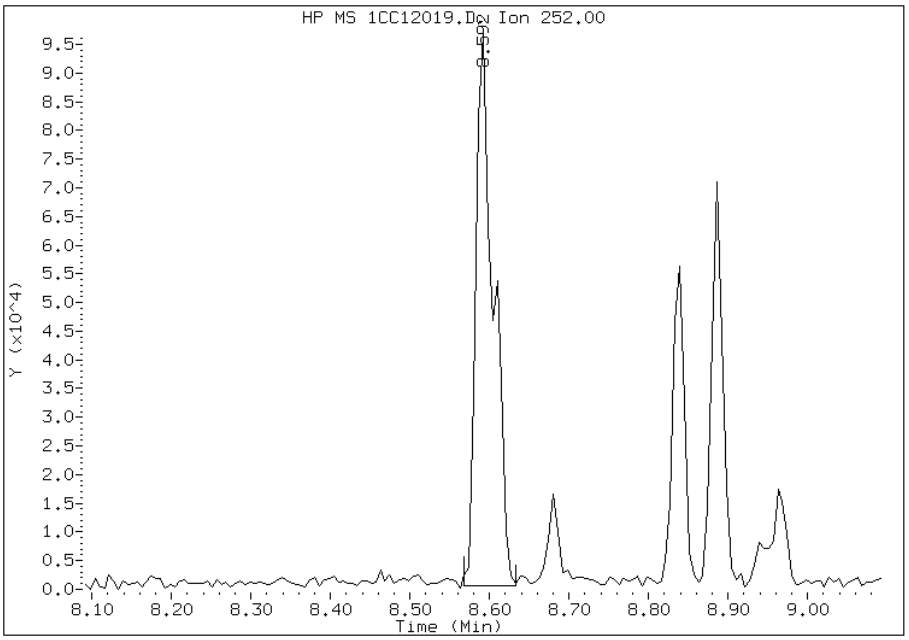
Processing Integration Results

RT: 8.59

Response: 147593

Amount: 3

Conc: 1063



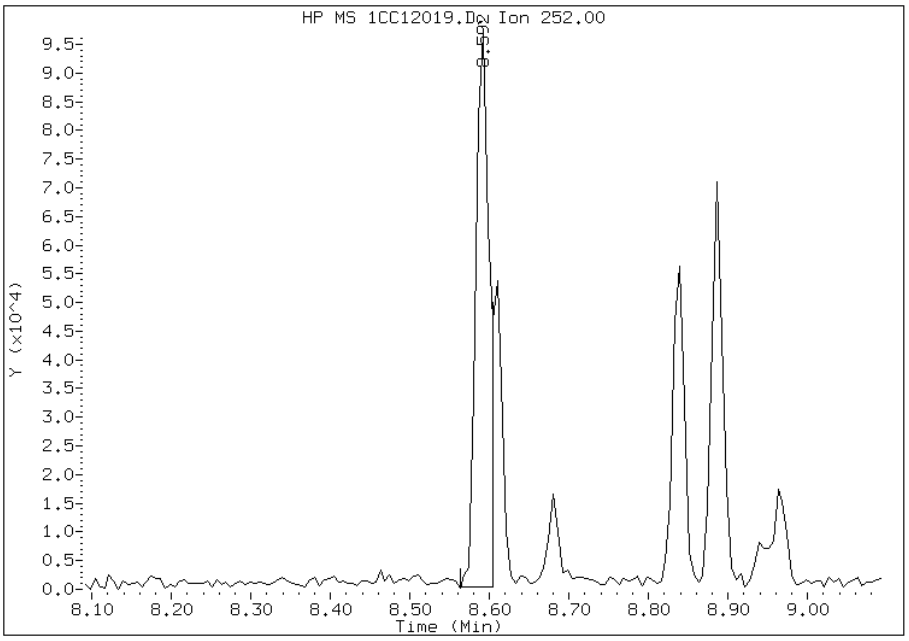
Manual Integration Results

RT: 8.59

Response: 114959

Amount: 2

Conc: 828



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12019.D
Inj. Date and Time: 12-MAR-2013 17:43
Instrument ID: BSMC5973.i
Client ID: HP0023B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/13/2013

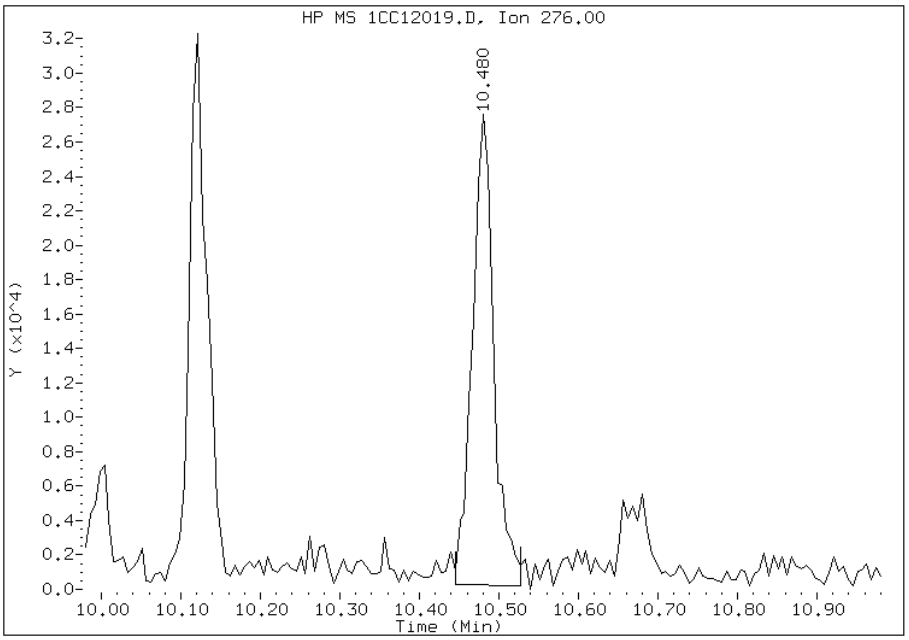
Processing Integration Results

RT: 10.48

Response: 51265

Amount: 1

Conc: 386



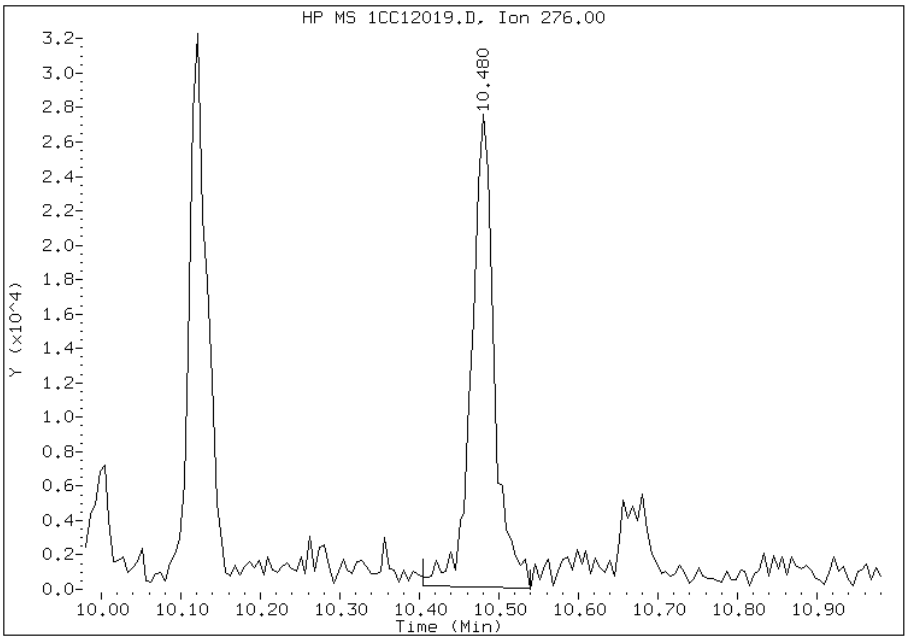
Manual Integration Results

RT: 10.48

Response: 54985

Amount: 1

Conc: 414



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12019.D
Inj. Date and Time: 12-MAR-2013 17:43
Instrument ID: BSMC5973.i
Client ID: HP0023B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

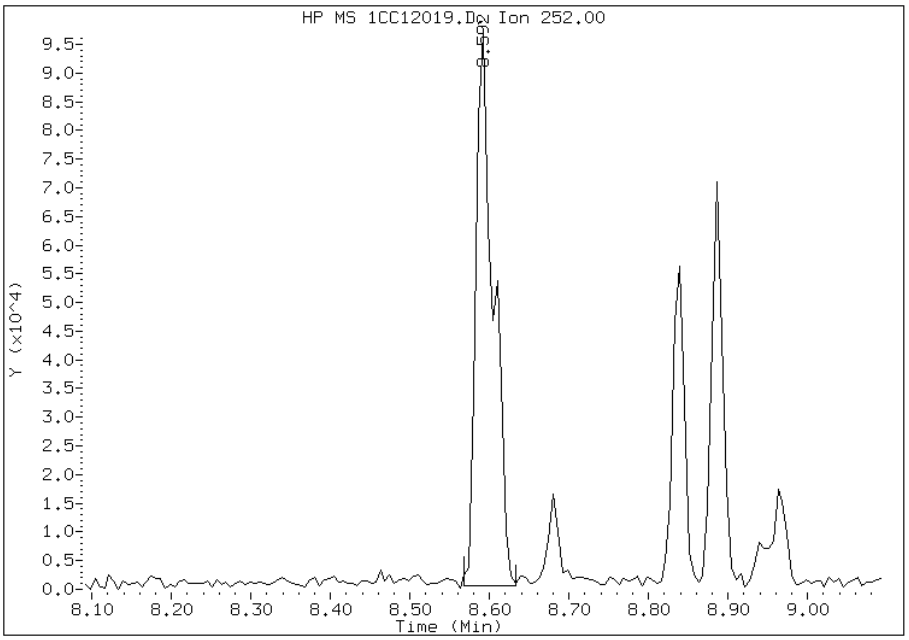
Processing Integration Results

RT: 8.59

Response: 147599

Amount: 3

Conc: 1036



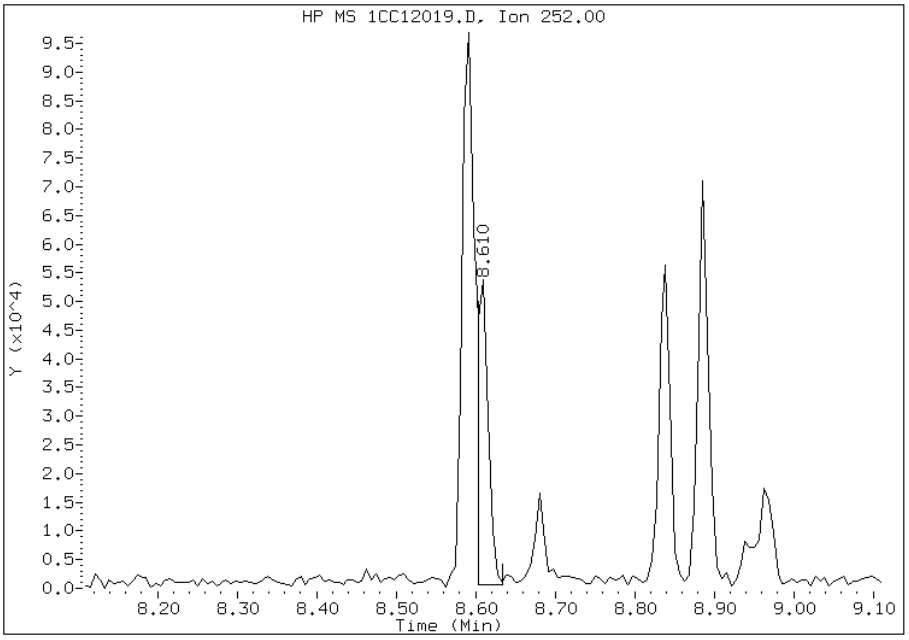
Manual Integration Results

RT: 8.61

Response: 49262

Amount: 1

Conc: 346



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12019.D
Inj. Date and Time: 12-MAR-2013 17:43
Instrument ID: BSMC5973.i
Client ID: HP0023B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

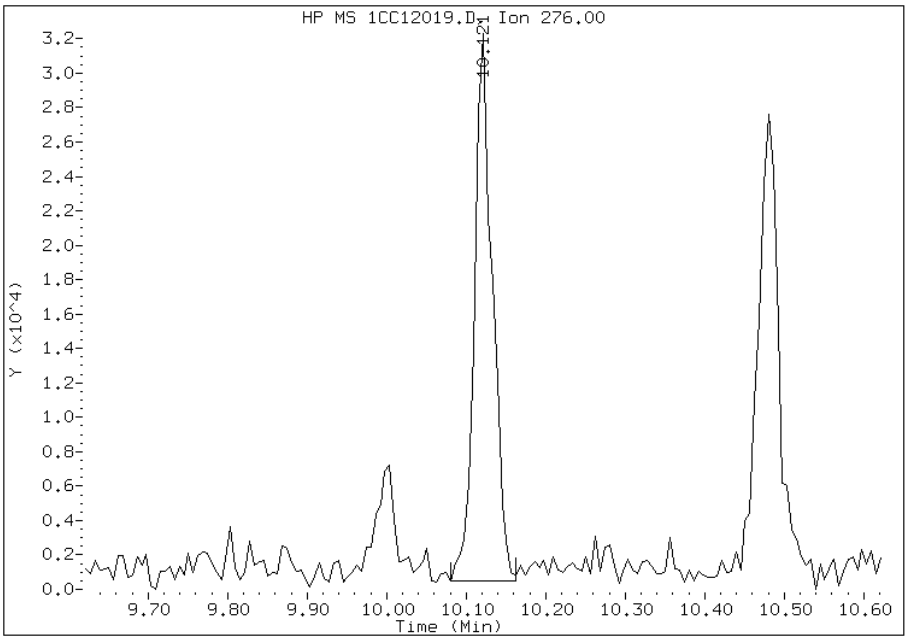
Processing Integration Results

RT: 10.12

Response: 49584

Amount: 1

Conc: 391



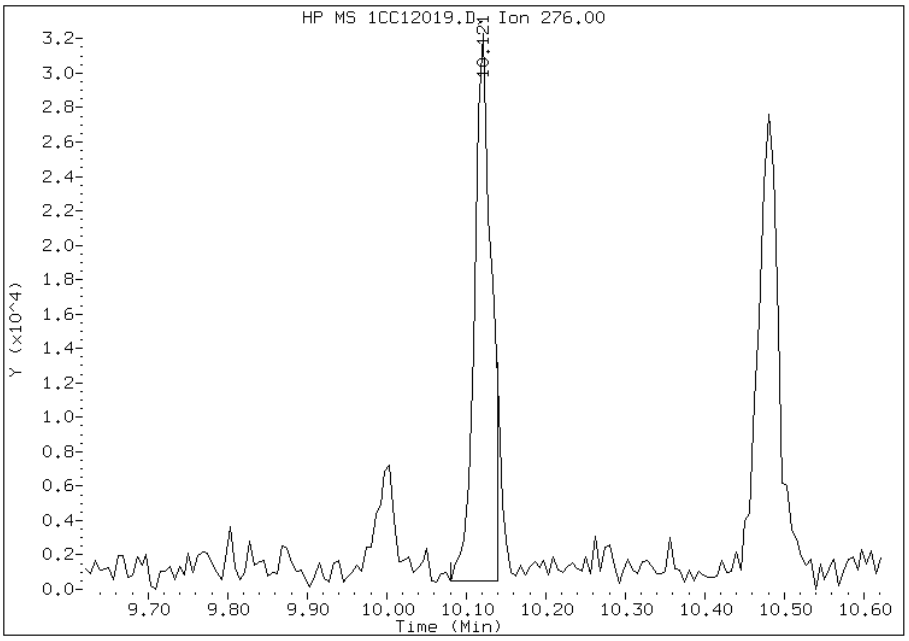
Manual Integration Results

RT: 10.12

Response: 46931

Amount: 1

Conc: 370



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0253A-CS | Lab Sample ID: 680-88067-8

Matrix: Solid | Lab File ID: 1CC12020.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 12:40

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

Sample wt/vol: 15.10(g) | Date Analyzed: 03/12/2013 18:01

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

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

% Moisture: 28.3 | 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	28
208-96-8	Acenaphthylene	9.4	J	55	6.9
120-12-7	Anthracene	22		12	5.8
56-55-3	Benzo[a]anthracene	40		11	5.4
50-32-8	Benzo[a]pyrene	35		14	7.2
205-99-2	Benzo[b]fluoranthene	93		17	8.5
191-24-2	Benzo[g,h,i]perylene	33		28	6.1
207-08-9	Benzo[k]fluoranthene	32		11	5.0
218-01-9	Chrysene	81		12	6.2
53-70-3	Dibenz(a,h)anthracene	16	J	28	5.7
206-44-0	Fluoranthene	58		28	5.5
86-73-7	Fluorene	28	U	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	27	J	28	9.8
90-12-0	1-Methylnaphthalene	63		55	6.1
91-57-6	2-Methylnaphthalene	58		55	9.8
91-20-3	Naphthalene	72		55	6.1
85-01-8	Phenanthrene	78		11	5.4
129-00-0	Pyrene	66		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12020.D
Lab Smp Id: 680-88067-A-8-A Client Smp ID: HP0253A-CS
Inj Date : 12-MAR-2013 18:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-8-a
Misc Info : 680-88067-A-8-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: 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	15.100	Weight Extracted
M	28.298	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1418967	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1116677	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	2024349	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	193385	6.32717	584.3902
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2191909	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	2070752	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	28952	0.78373	72.3873
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	15607	0.63337	58.4990
	4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	15334	0.68326	63.1074
	5 Acenaphthylene	152	4.763	4.763	(0.982)	4559	0.10126	9.3529
	11 Phenanthrene	178	5.816	5.815	(1.002)	49690	0.84889	78.4052
	12 Anthracene	178	5.851	5.851	(1.008)	13922	0.24319	22.4616
	13 Carbazole	167	5.957	5.957	(1.026)	16785	0.32984	30.4644
	15 Fluoranthene	202	6.657	6.657	(1.147)	40231	0.62760	57.9662

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.821	6.827	(0.881)	42374	0.71937	66.4423
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	27108	0.42850	39.5770
19 Chrysene	228	7.762	7.768	(1.002)	55793	0.88126	81.3952
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	54436	1.00590	92.9074
21 Benzo(k)fluoranthene	252	8.604	8.615	(0.962)	19268	0.34708	32.0567(QM)
22 Benzo(a)pyrene	252	8.880	8.886	(0.993)	20172	0.38375	35.4443
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	14257	0.28832	26.6297(M)
25 Dibenzo(a,h)anthracene	278	10.127	10.145	(1.132)	8338	0.17239	15.9220(M)
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	18254	0.35289	32.5935

QC Flag Legend

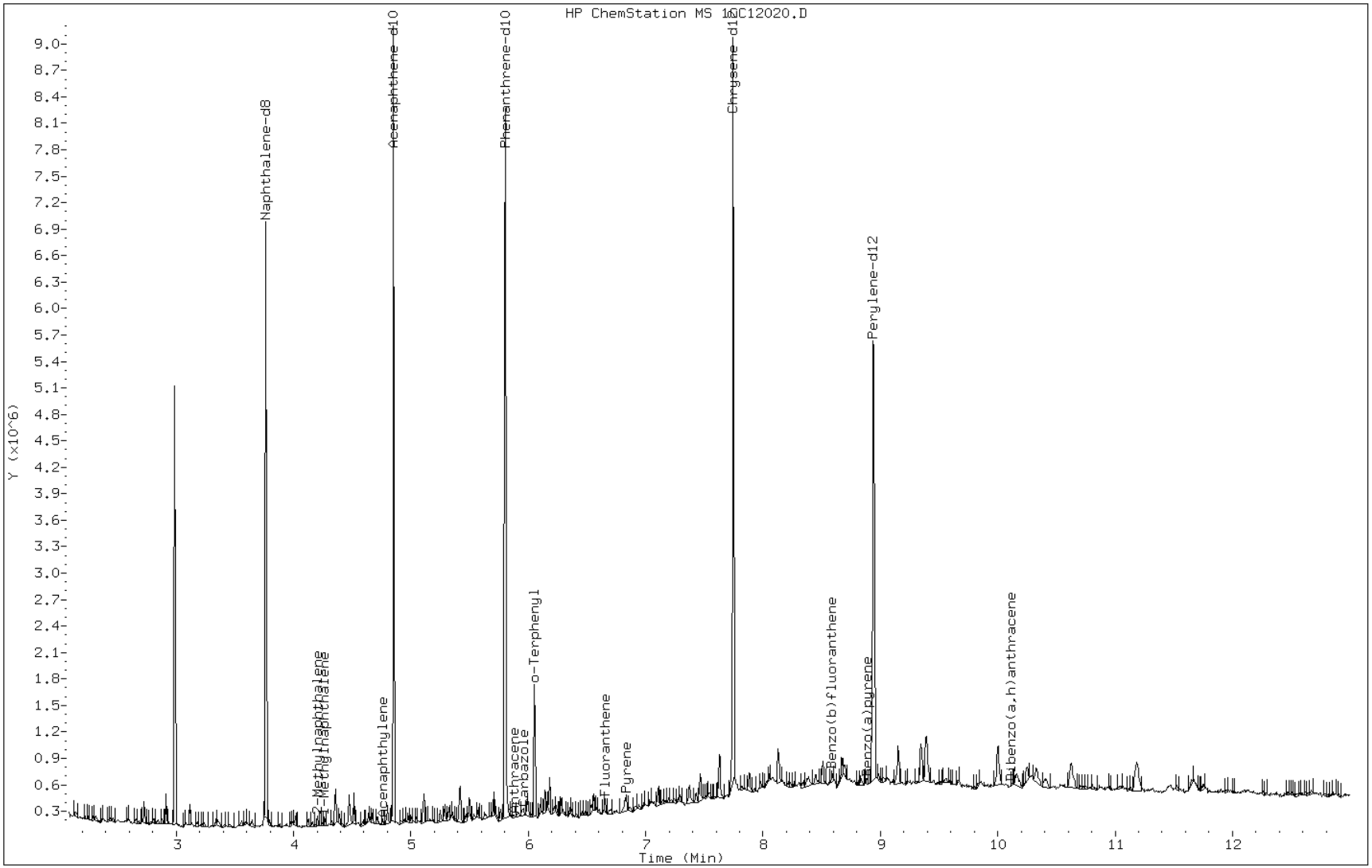
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC



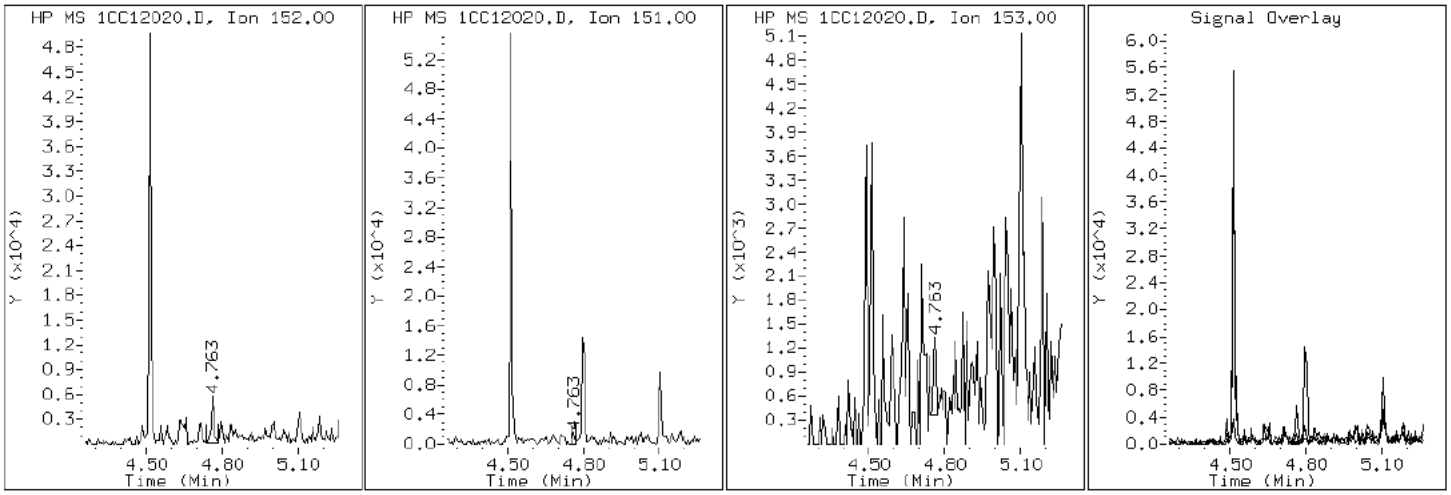
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

5 Acenaphthylene



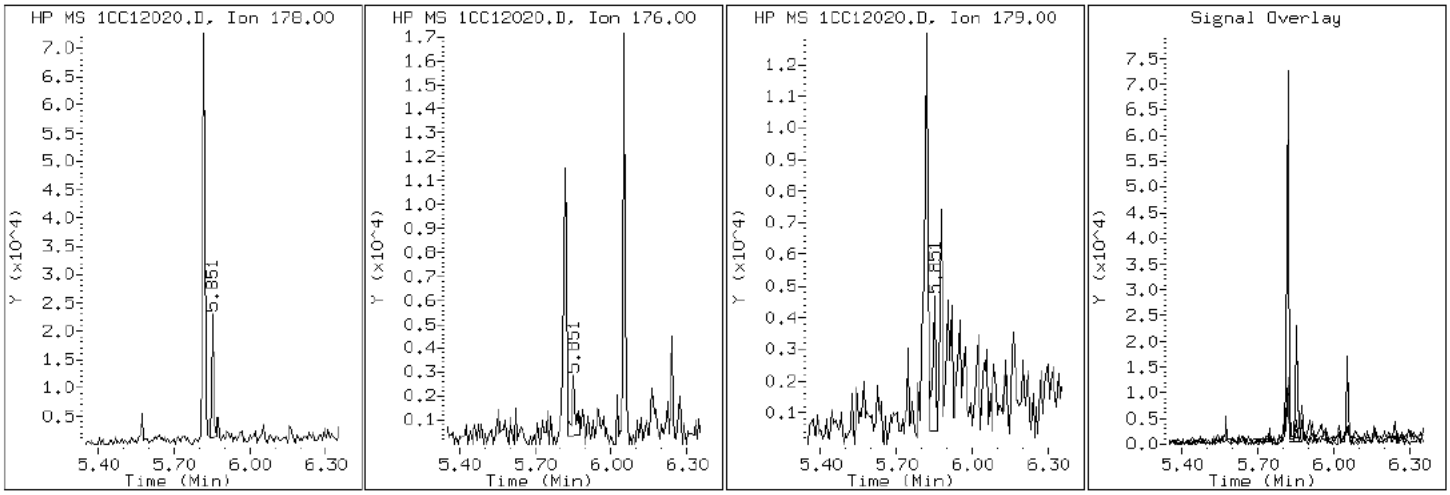
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

12 Anthracene



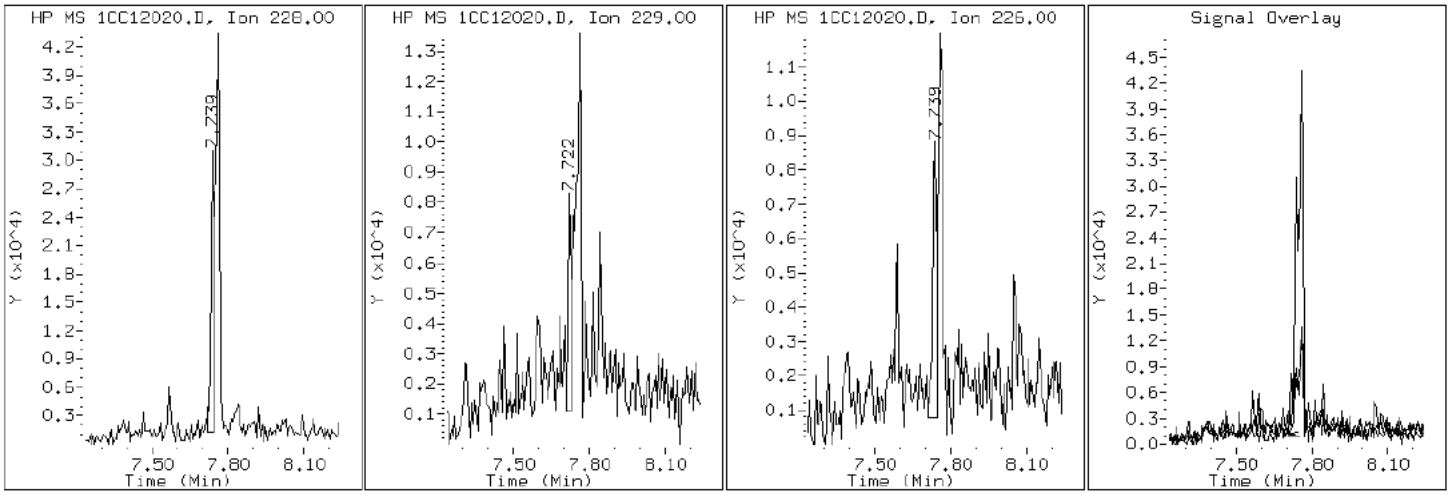
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

17 Benzo(a)anthracene



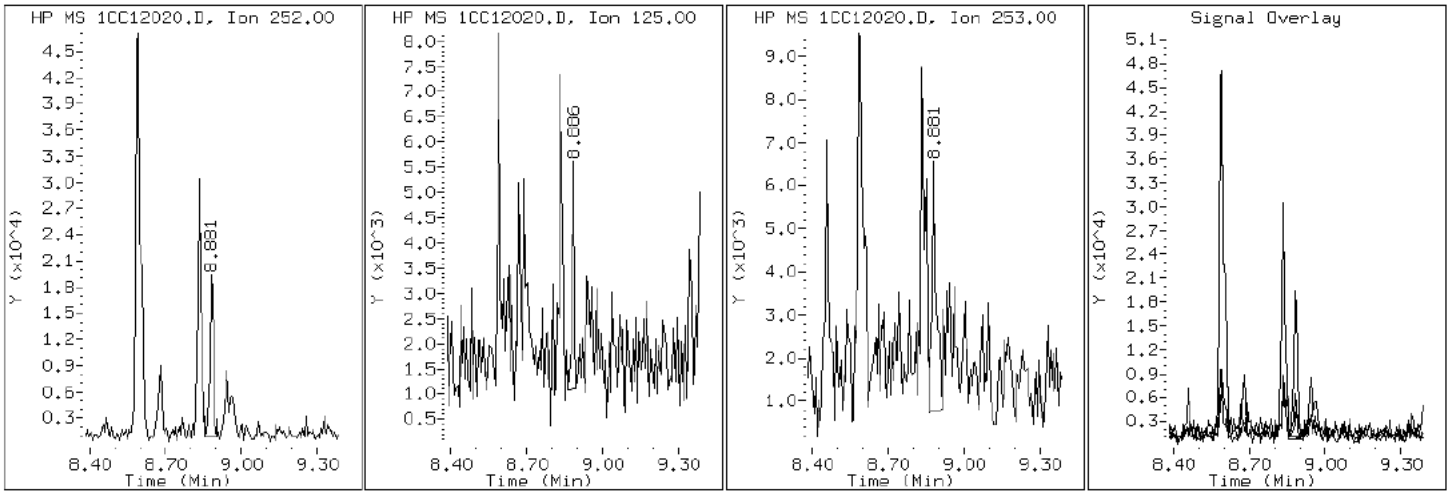
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

22 Benzo(a)pyrene



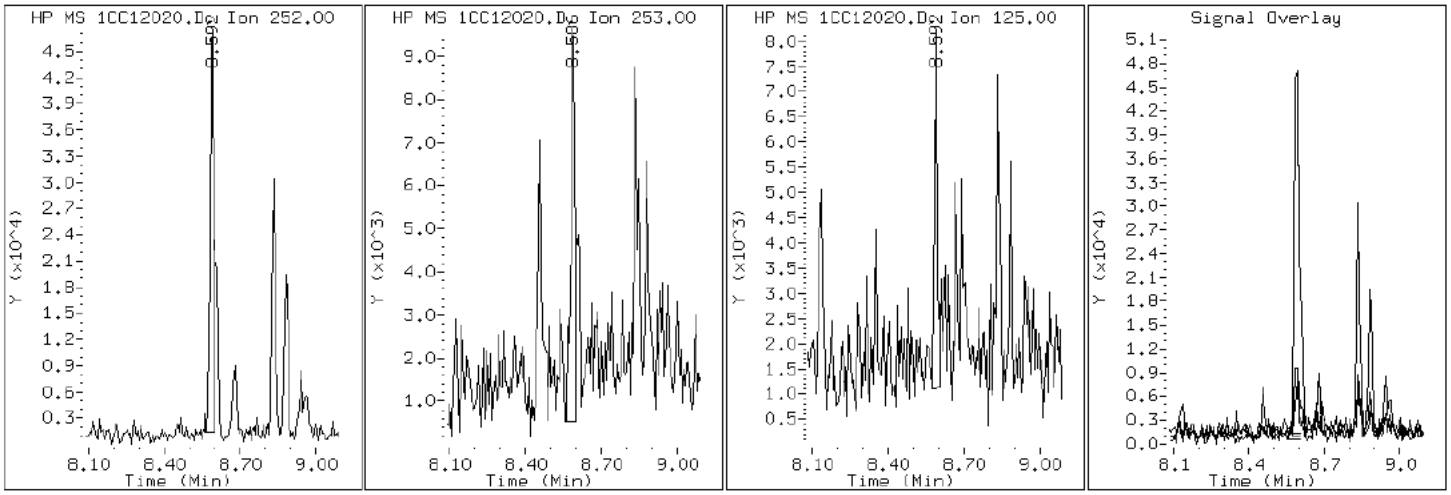
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



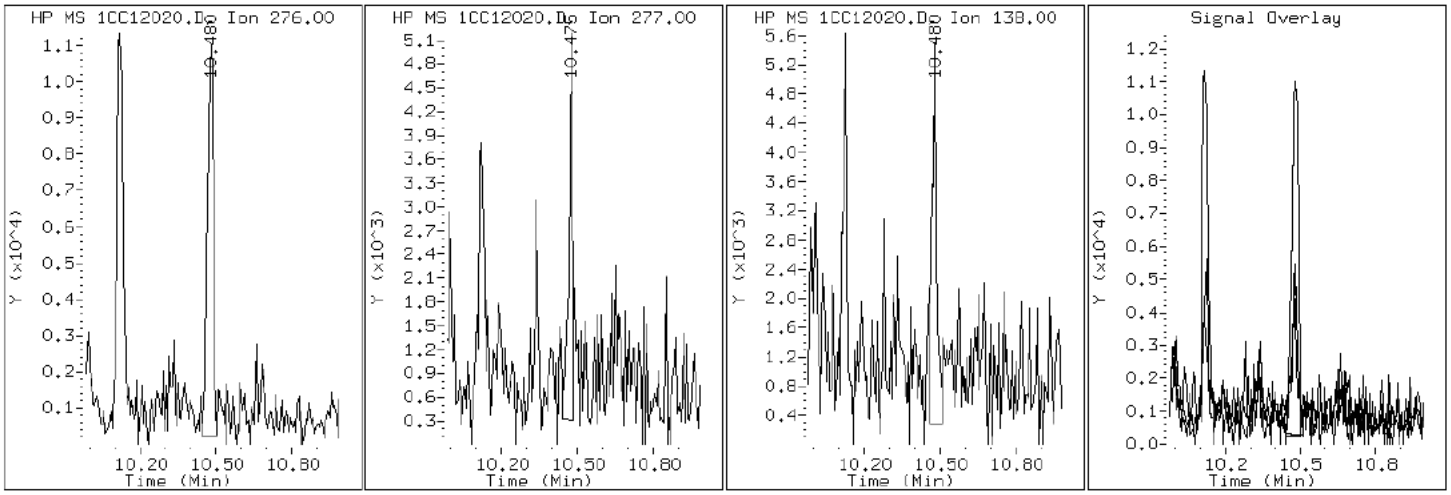
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



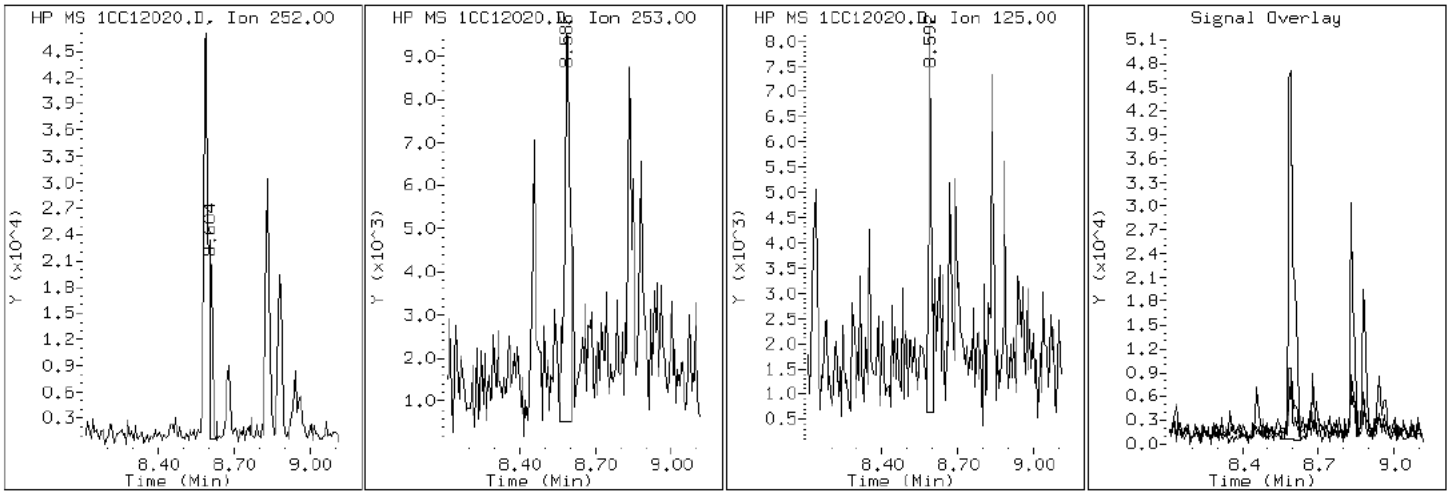
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



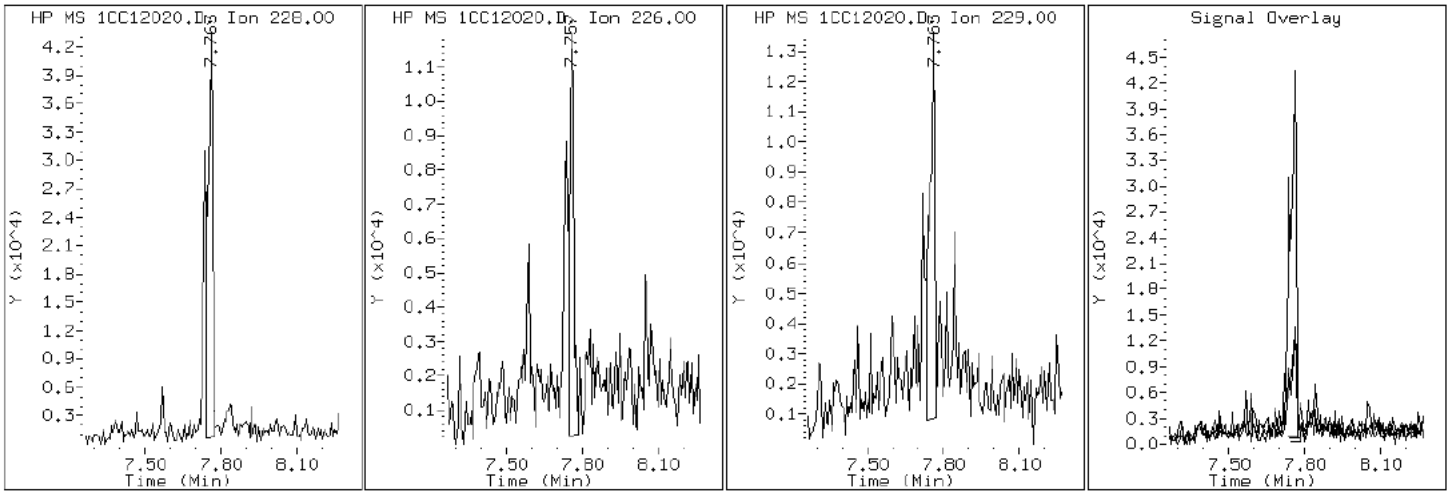
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

19 Chrysene



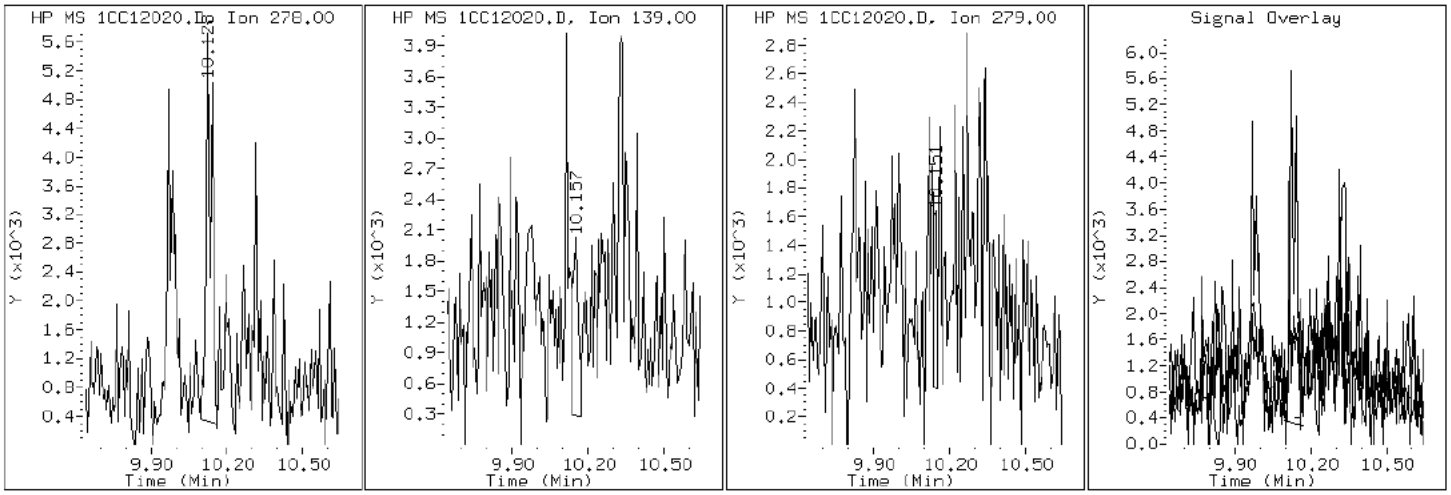
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



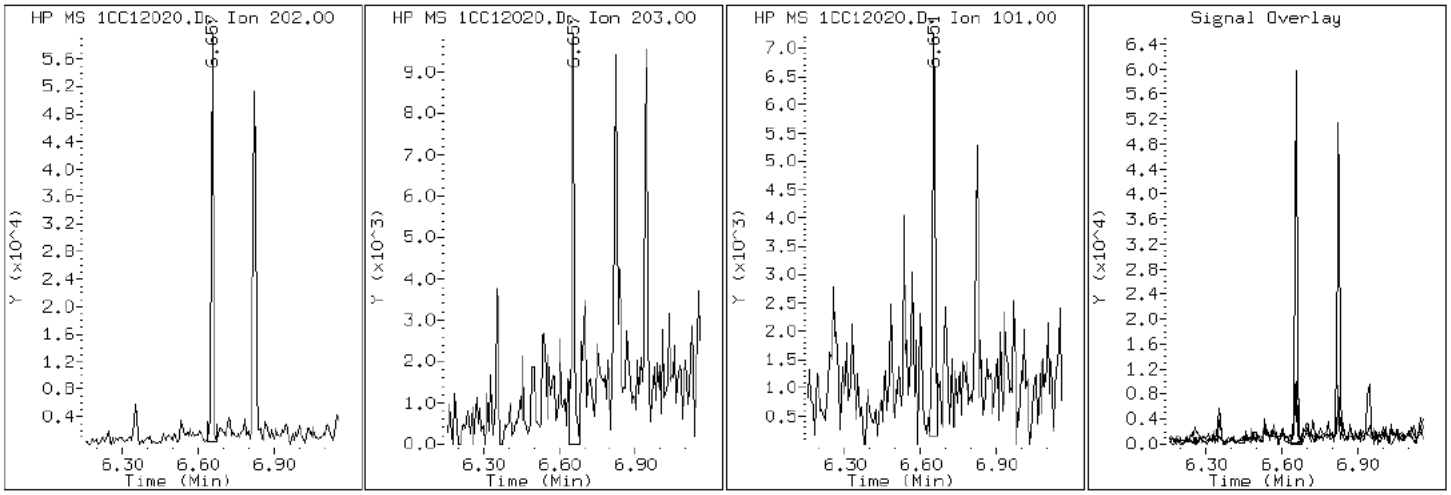
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

15 Fluoranthene



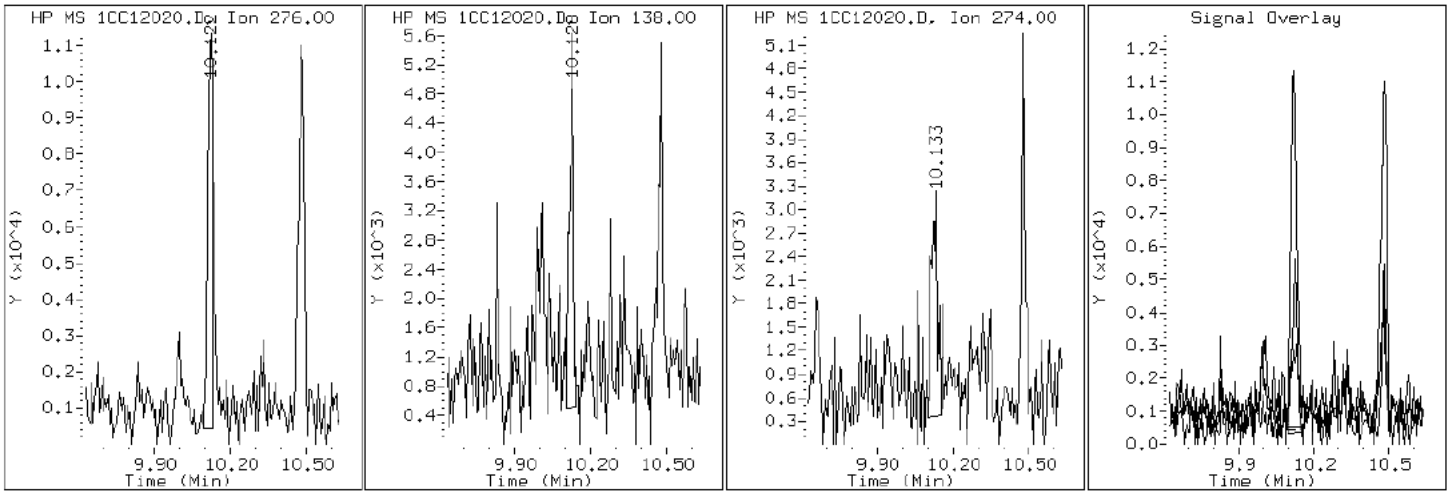
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

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



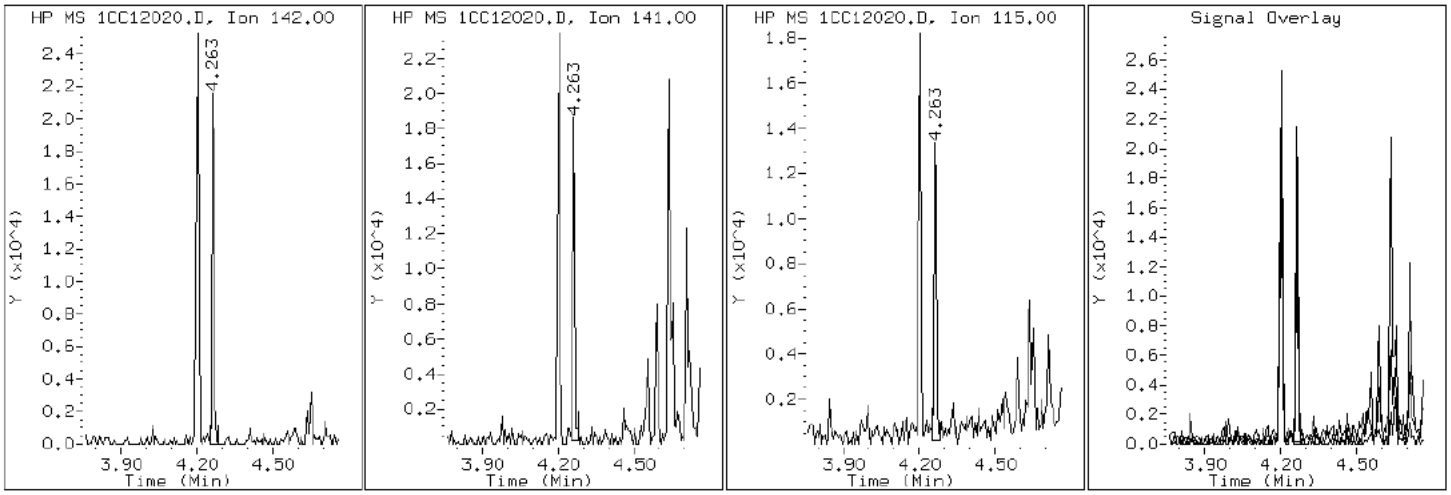
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

4 1-Methylnaphthalene



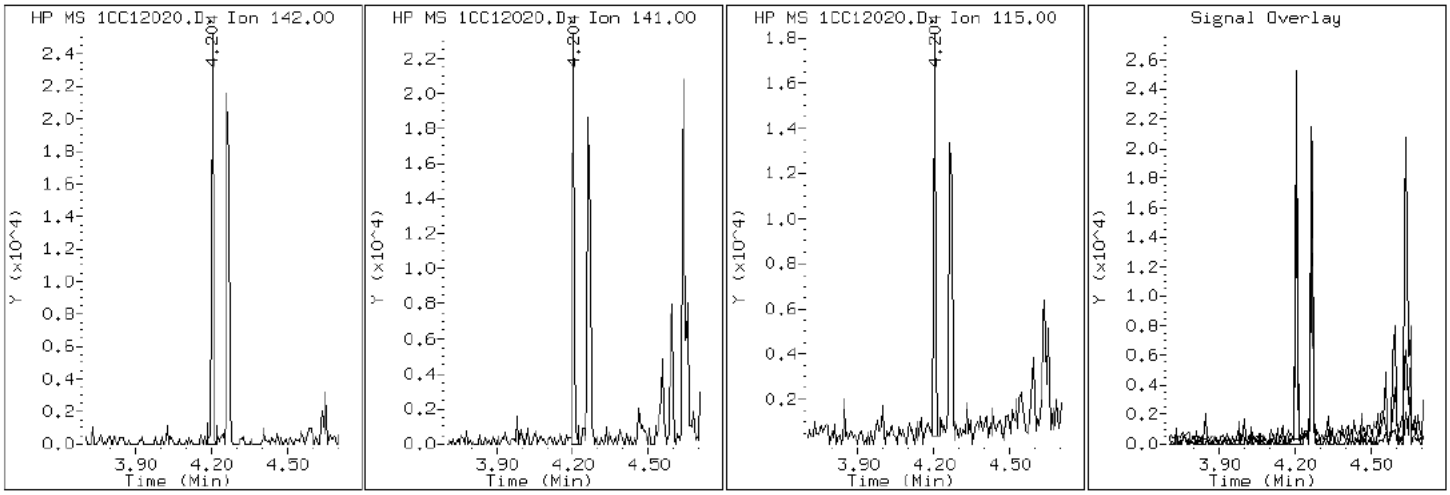
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

3 2-Methylnaphthalene



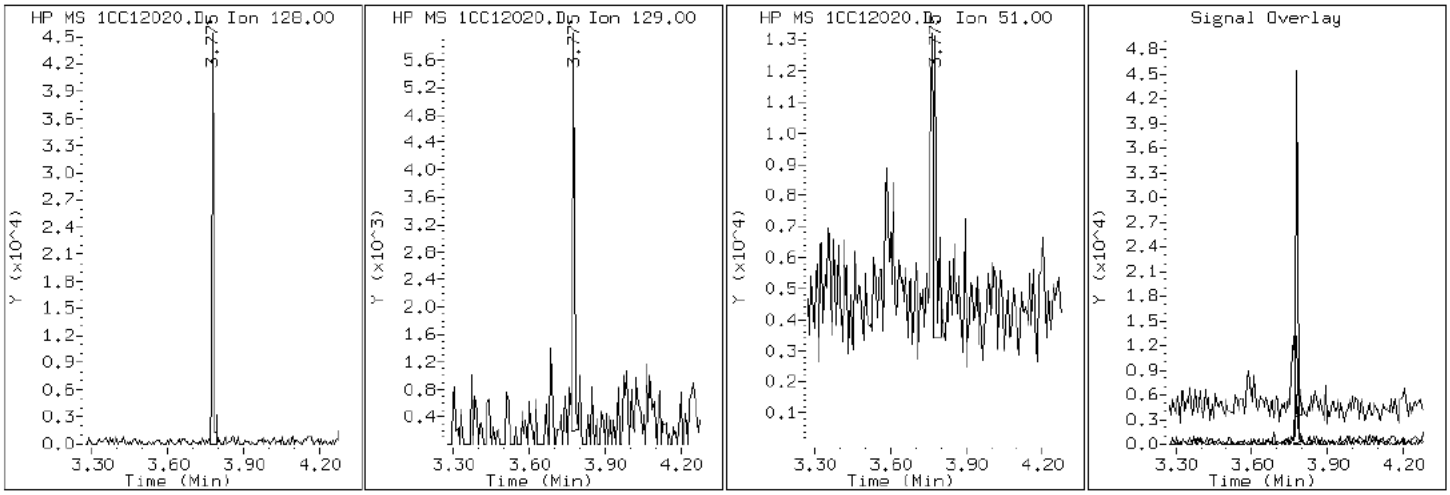
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

2 Naphthalene



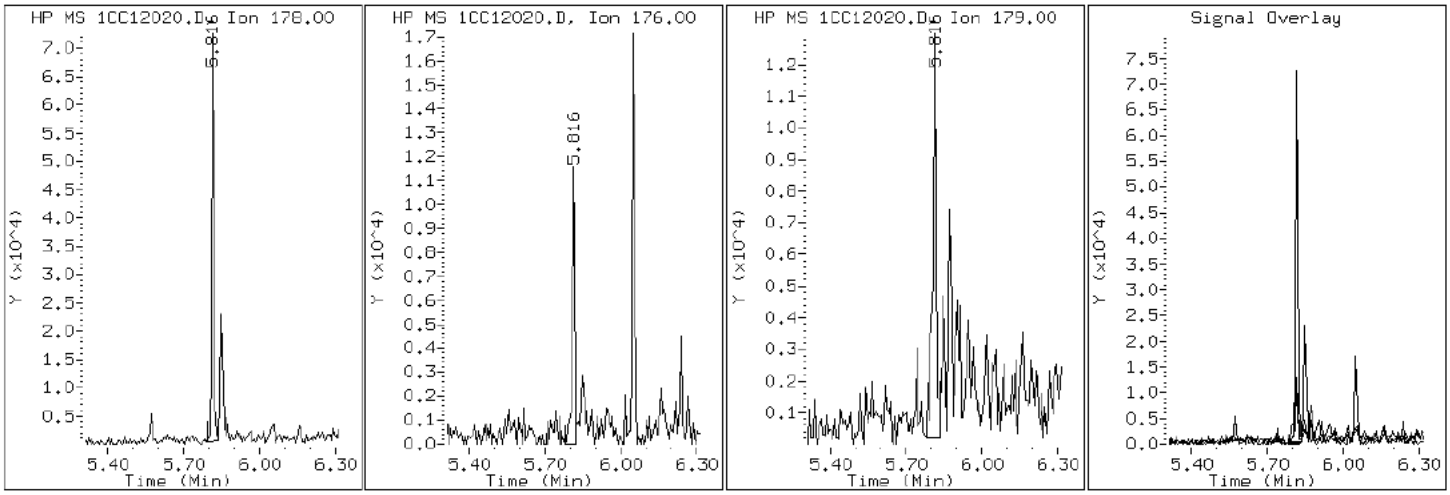
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

11 Phenanthrene



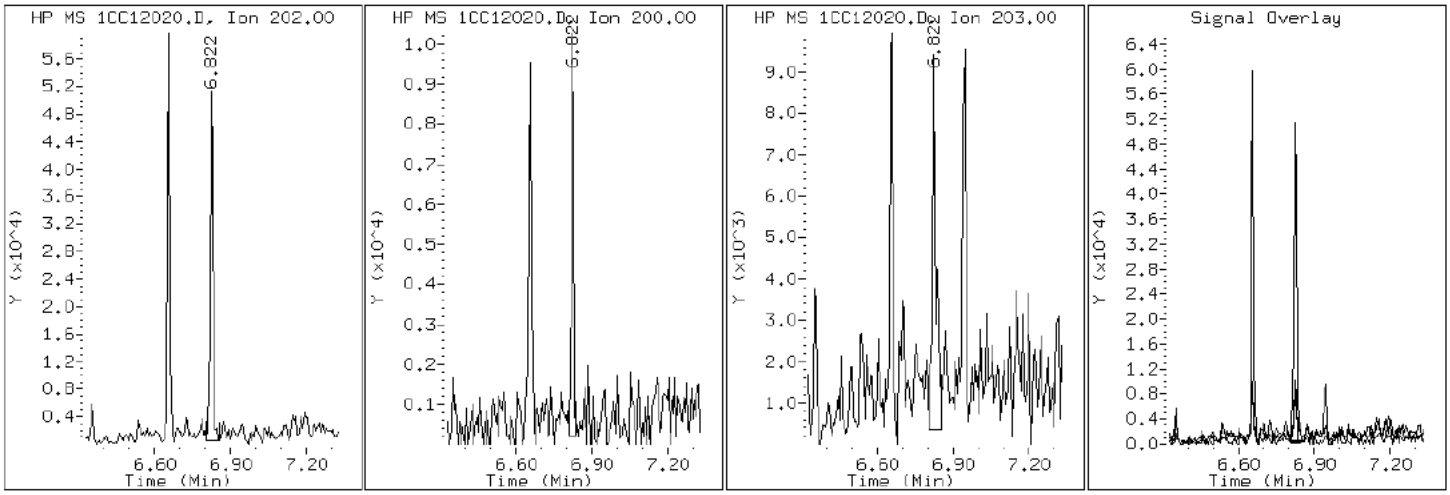
Data File: 1CC12020.D

Date: 12-MAR-2013 18:01

Client ID: HP0253A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12020.D
Inj. Date and Time: 12-MAR-2013 18:01
Instrument ID: BSMC5973.i
Client ID: HP0253A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

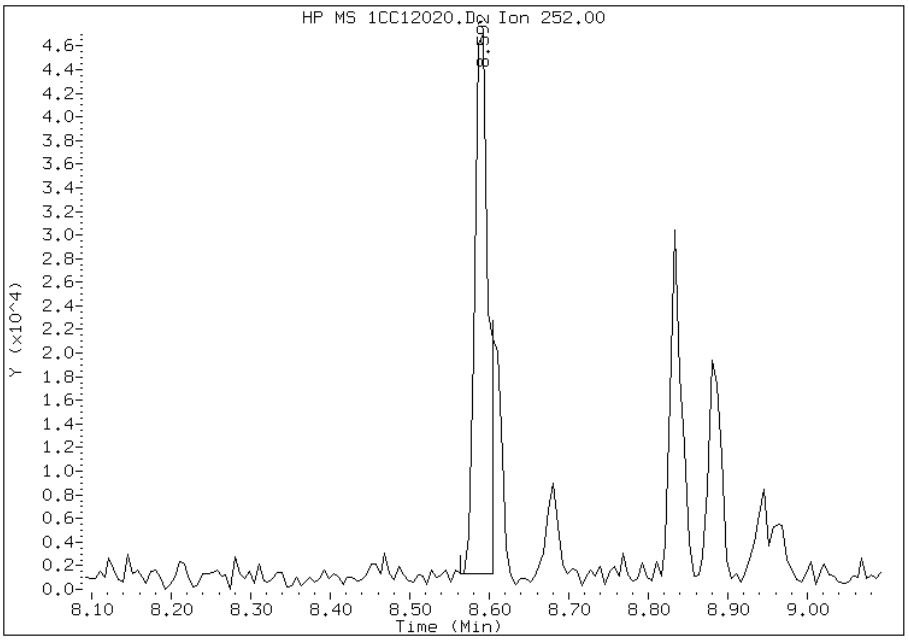
Processing Integration Results

RT: 8.59

Response: 54436

Amount: 1

Conc: 91



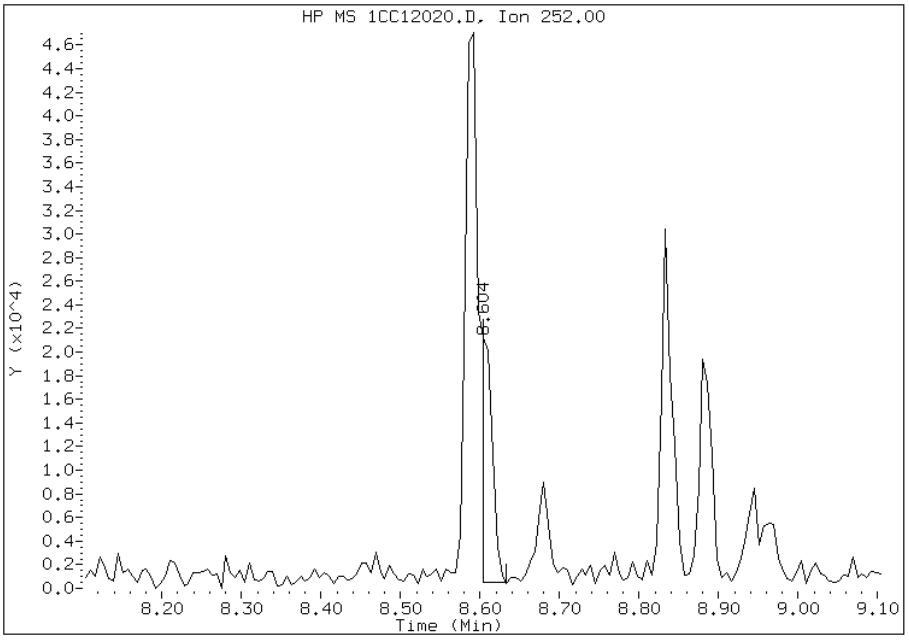
Manual Integration Results

RT: 8.60

Response: 19268

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:40
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CC12020.D
Inj. Date and Time: 12-MAR-2013 18:01
Instrument ID: BSMC5973.i
Client ID: HP0253A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/13/2013

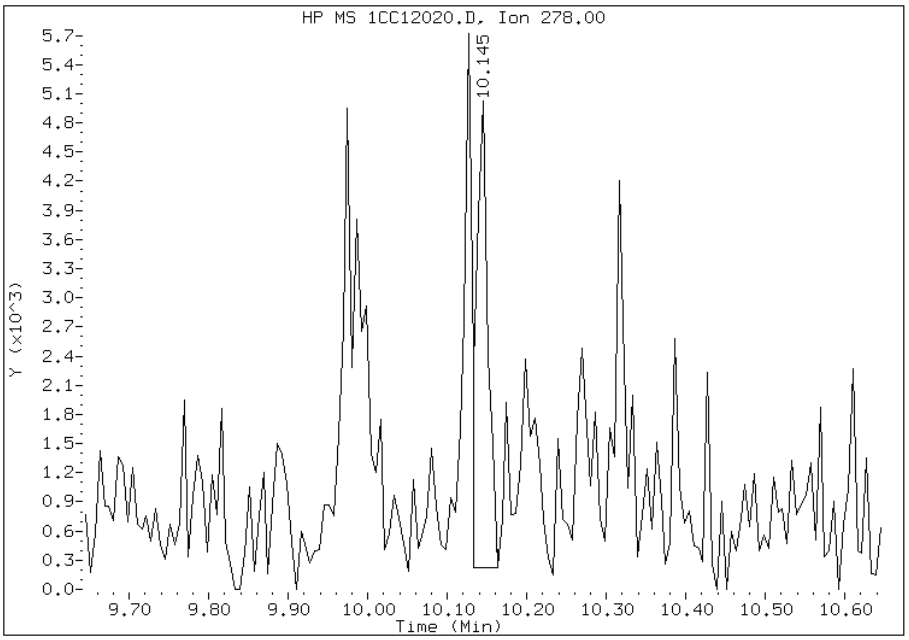
Processing Integration Results

RT: 10.15

Response: 4926

Amount: 0

Conc: 9



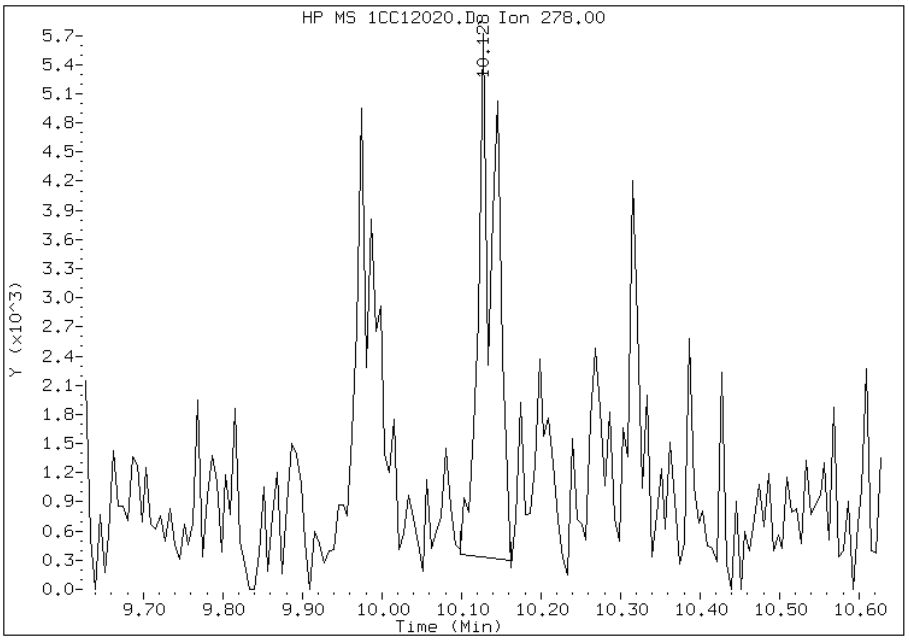
Manual Integration Results

RT: 10.13

Response: 8338

Amount: 0

Conc: 16



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12020.D
Inj. Date and Time: 12-MAR-2013 18:01
Instrument ID: BSMC5973.i
Client ID: HP0253A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

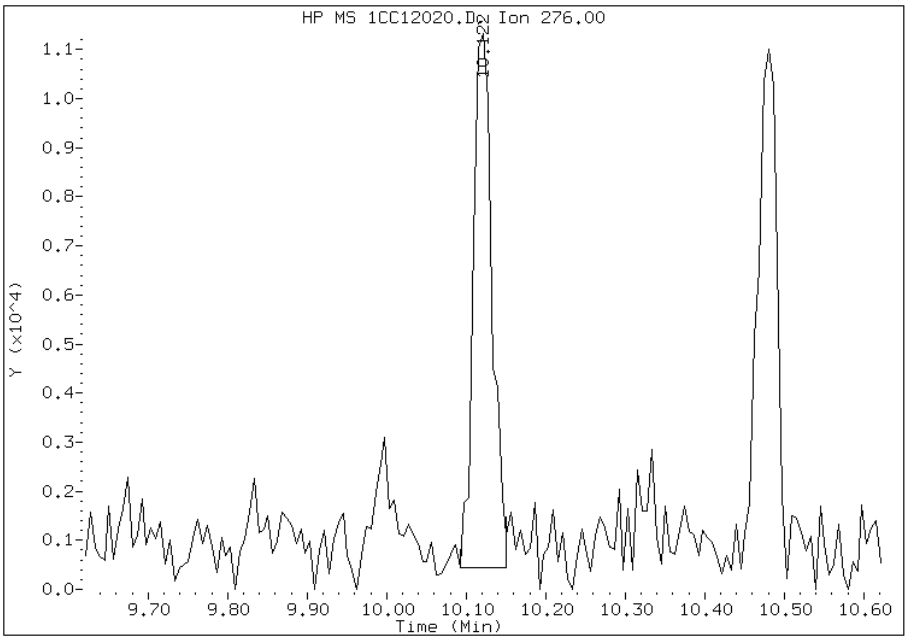
Processing Integration Results

RT: 10.12

Response: 17734

Amount: 0

Conc: 33



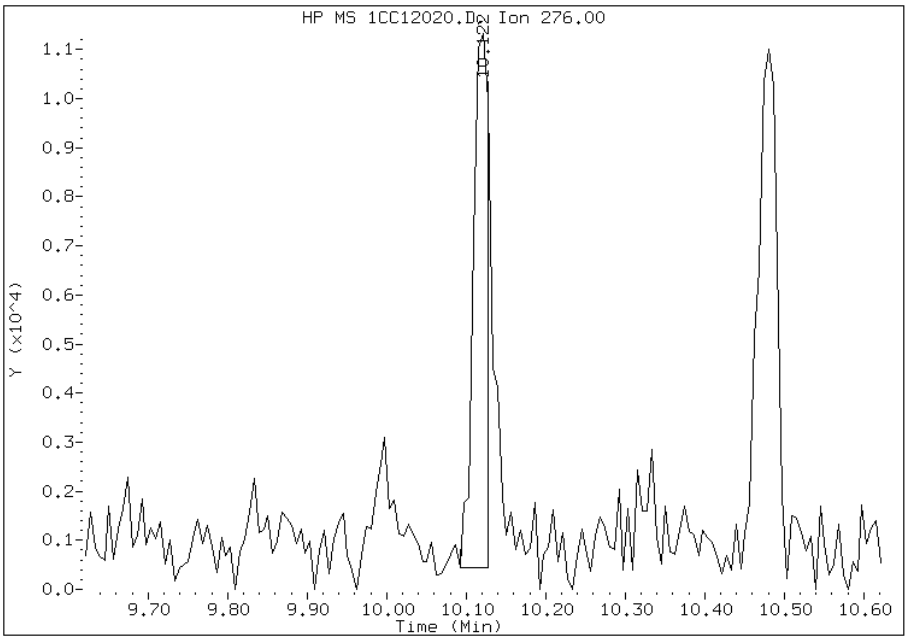
Manual Integration Results

RT: 10.12

Response: 14257

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0253B-CS | Lab Sample ID: 680-88067-9

Matrix: Solid | Lab File ID: 1CC12021.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 12:50

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

Sample wt/vol: 15.07(g) | Date Analyzed: 03/12/2013 18:20

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

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

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	41	J	210	26
120-12-7	Anthracene	45		43	22
56-55-3	Benzo[a]anthracene	140		41	20
50-32-8	Benzo[a]pyrene	120		54	27
205-99-2	Benzo[b]fluoranthene	250		63	31
191-24-2	Benzo[g,h,i]perylene	110		100	23
207-08-9	Benzo[k]fluoranthene	86		41	19
218-01-9	Chrysene	260		46	23
53-70-3	Dibenz(a,h)anthracene	44	J	100	21
206-44-0	Fluoranthene	210		100	21
86-73-7	Fluorene	33	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	100		100	37
90-12-0	1-Methylnaphthalene	1400		210	23
91-57-6	2-Methylnaphthalene	1900		210	37
91-20-3	Naphthalene	1300		210	23
85-01-8	Phenanthrene	640		41	20
129-00-0	Pyrene	230		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12021.D
Lab Smp Id: 680-88067-A-9-A Client Smp ID: HP0253B-CS
Inj Date : 12-MAR-2013 18:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-9-a
Misc Info : 680-88067-A-9-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: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	22.642	% 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)	1303979	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1018616	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1905090	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	53462	1.85867	637.7354
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2113747	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	2000536	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	130202	3.83539	1315.9778
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	127732	5.64076	1935.4246
	4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	85319	4.13694	1419.4431
	5 Acenaphthylene	152	4.762	4.763	(0.982)	4854	0.11820	40.5547(Q)
	9 Fluorene	166	5.192	5.192	(1.070)	3146	0.09745	33.4378(Q)
	11 Phenanthrene	178	5.815	5.815	(1.002)	102201	1.85527	636.5704
	12 Anthracene	178	5.851	5.851	(1.008)	7108	0.13194	45.2691
	13 Carbazole	167	5.957	5.957	(1.026)	7910	0.16517	56.6714

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.656	6.657	(1.147)	36797	0.60996	209.2867
16 Pyrene	202	6.821	6.827	(0.881)	38249	0.67335	231.0364
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	25088	0.41123	141.0997
19 Chrysene	228	7.762	7.768	(1.002)	46358	0.75931	260.5307
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	38672	0.73969	253.7977(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	13490	0.25153	86.3021(QMH)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	18331	0.36097	123.8544
24 Indeno(1,2,3-cd)pyrene	276	10.115	10.127	(1.131)	14131	0.29580	101.4937(MH)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	5987	0.12813	43.9617
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	15616	0.31249	107.2185

QC Flag Legend

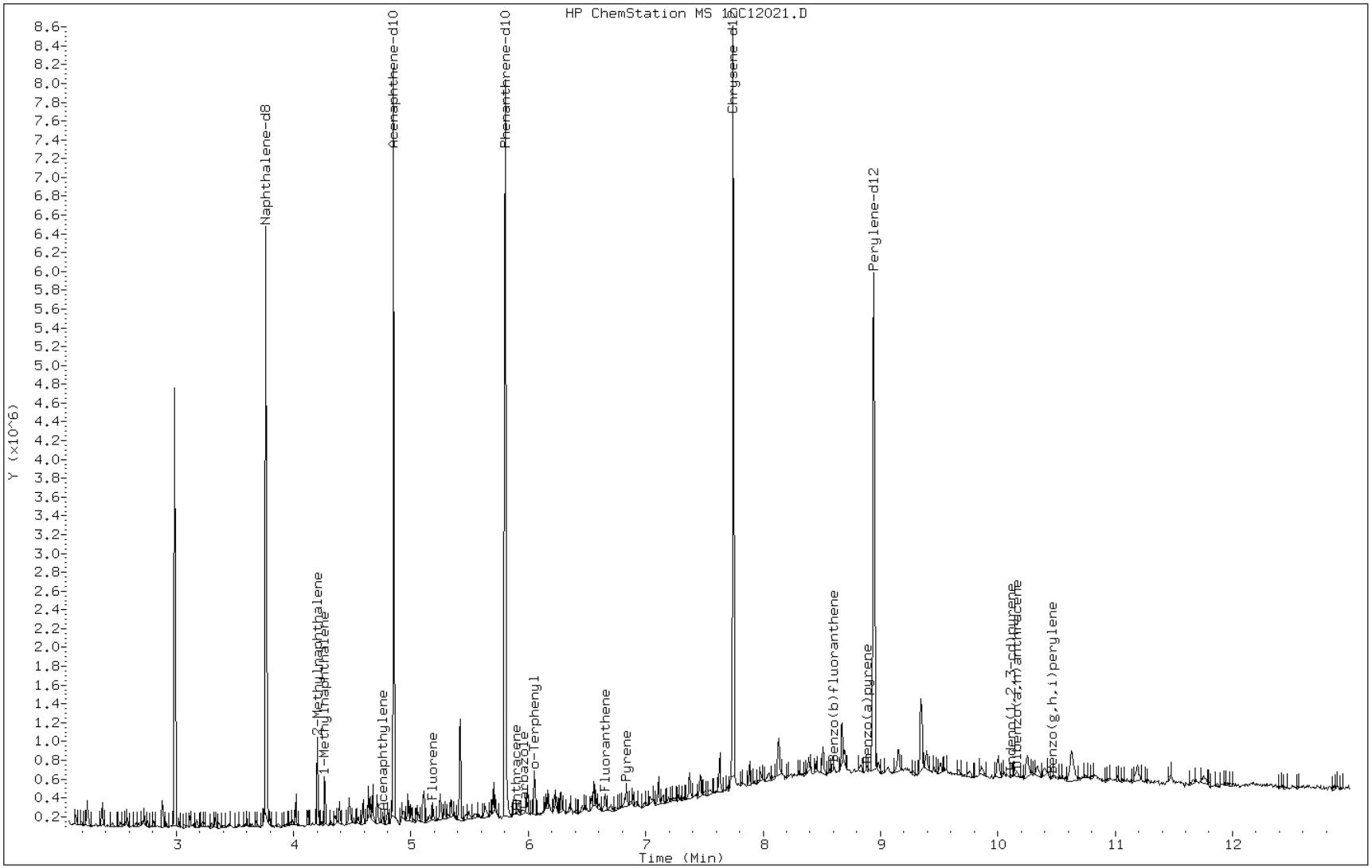
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC



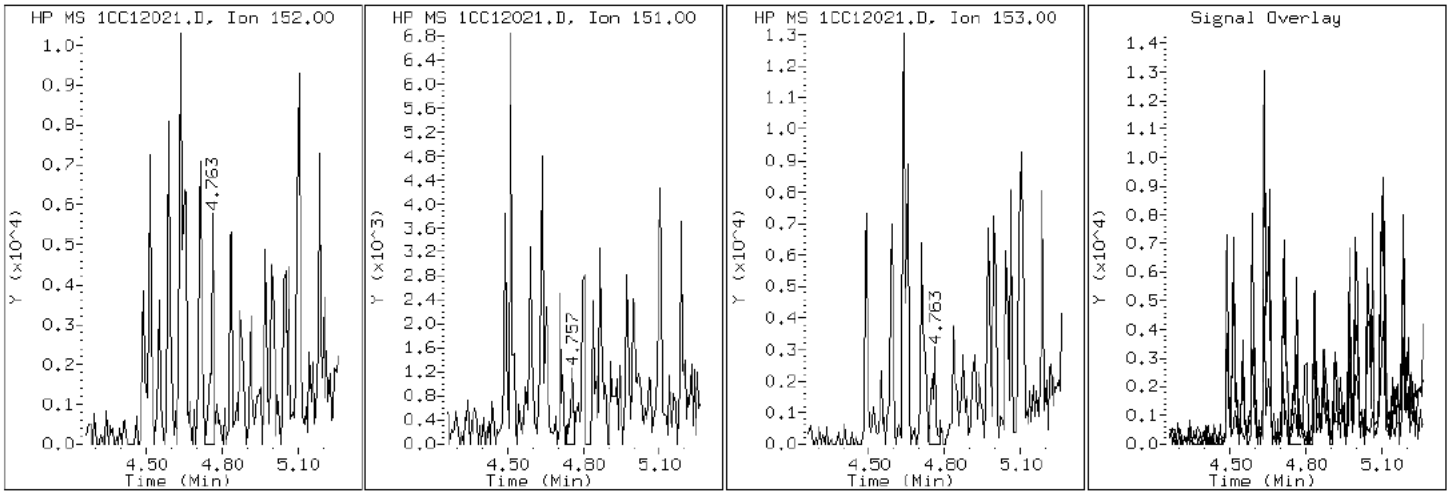
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

5 Acenaphthylene



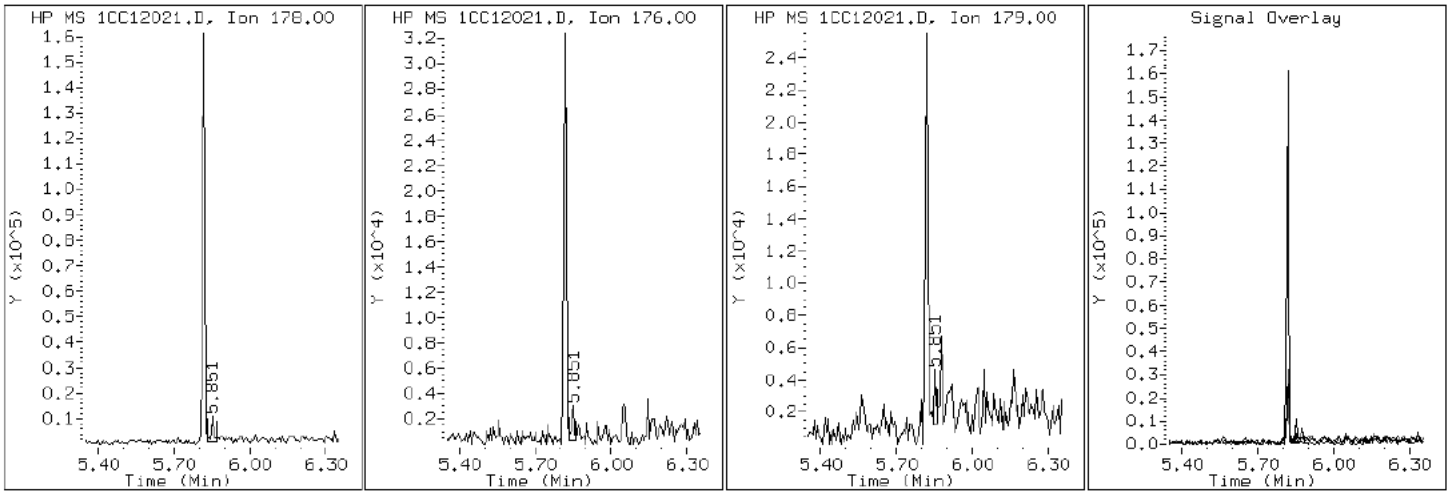
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

12 Anthracene



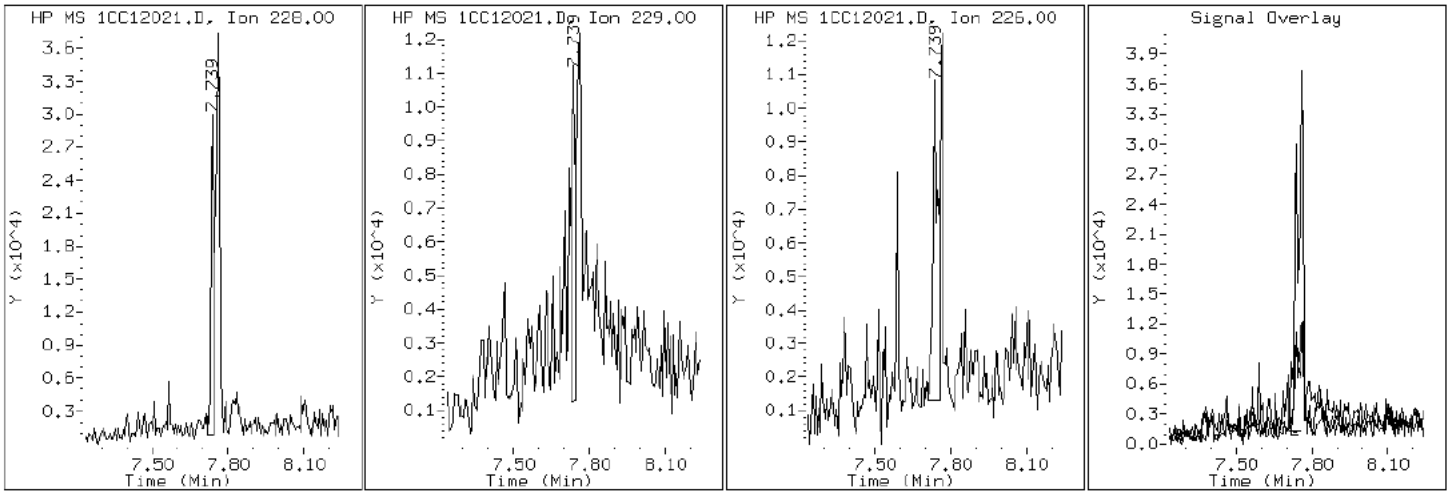
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

17 Benzo(a)anthracene



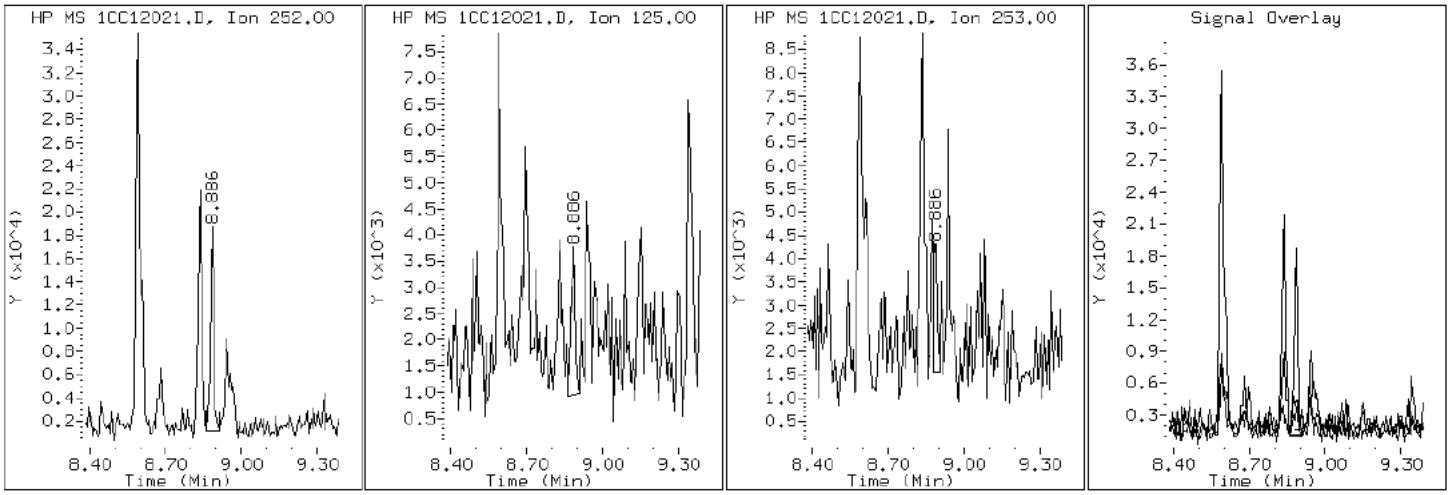
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

22 Benzo(a)pyrene



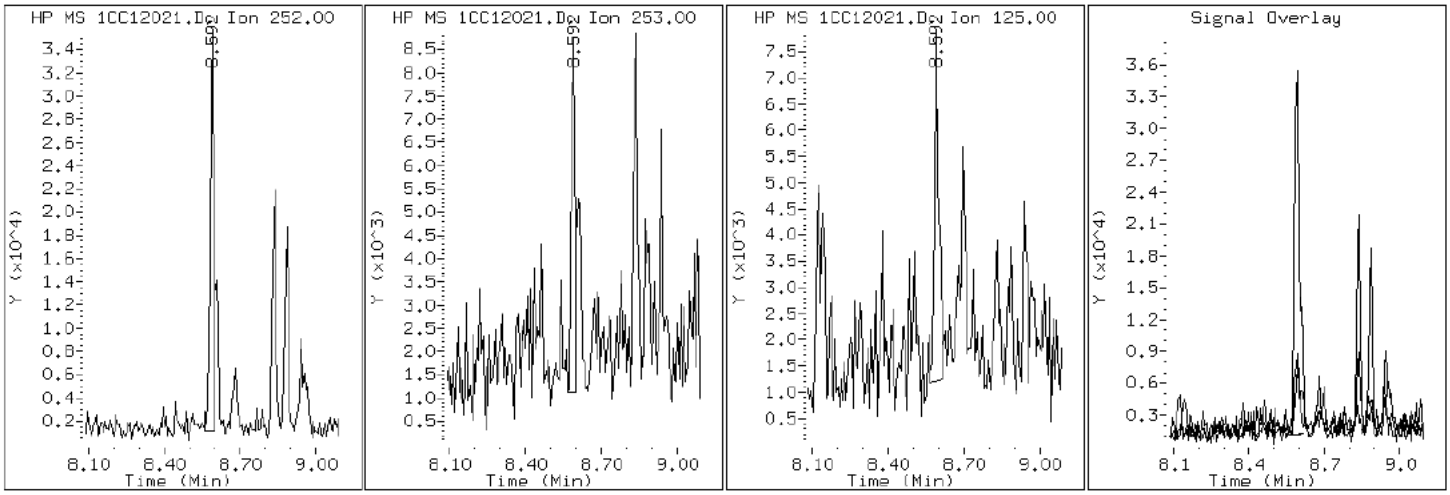
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



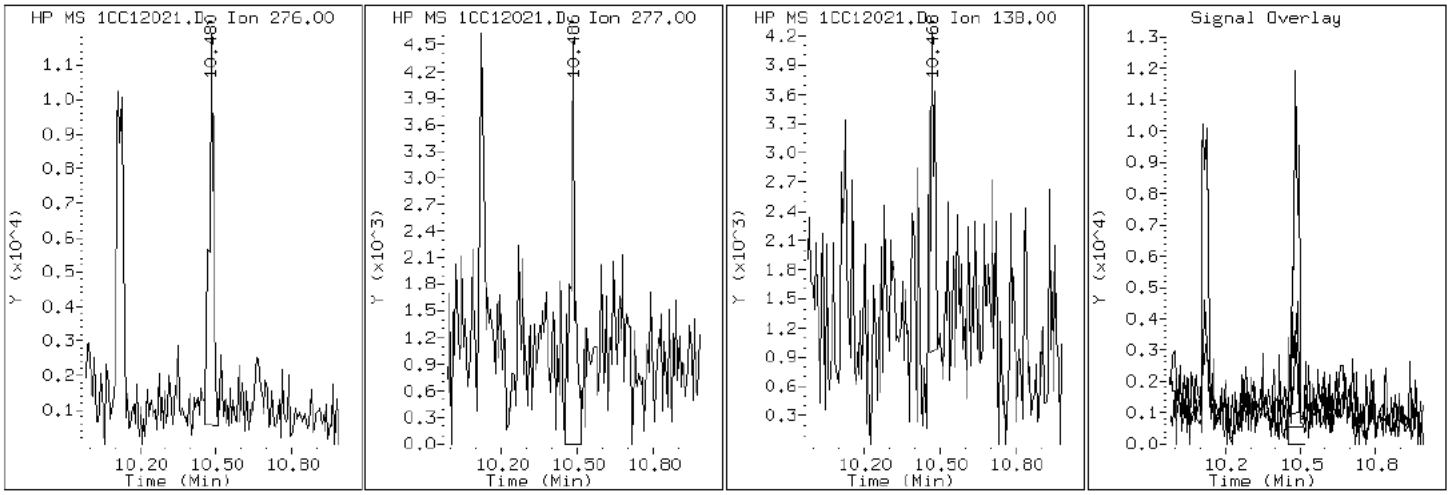
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



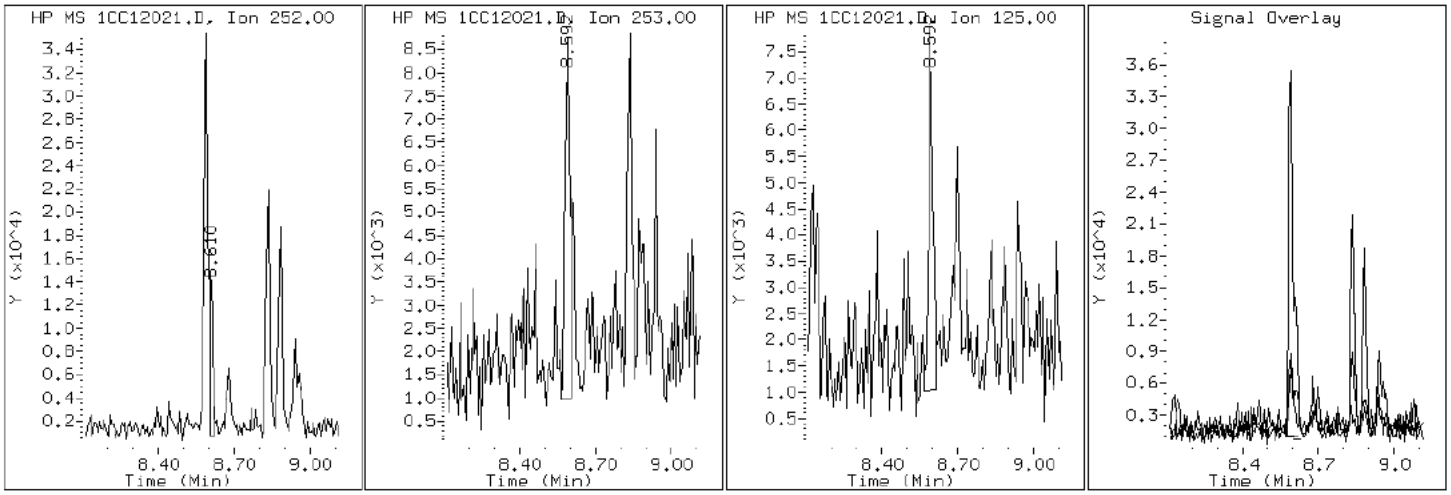
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



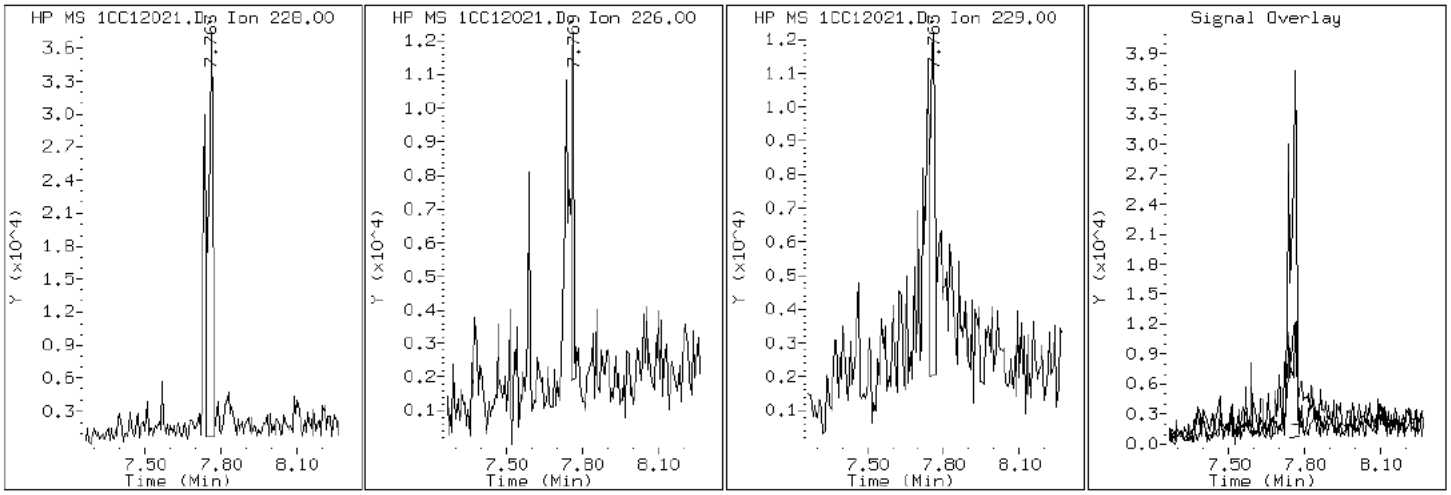
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

19 Chrysene



Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

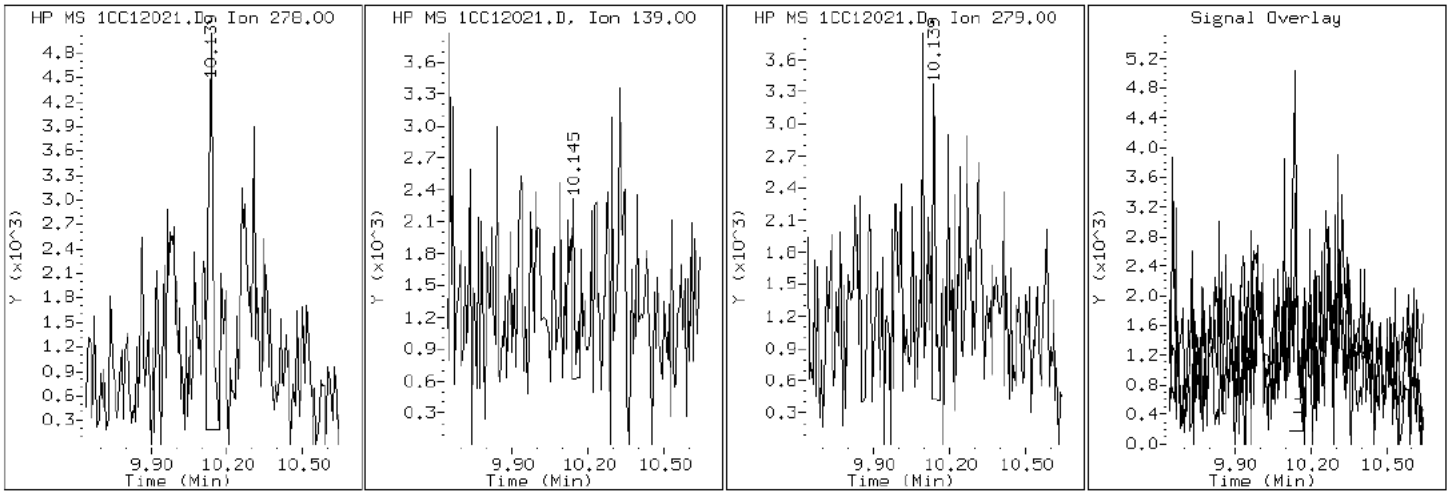
Client ID: HP0253B-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



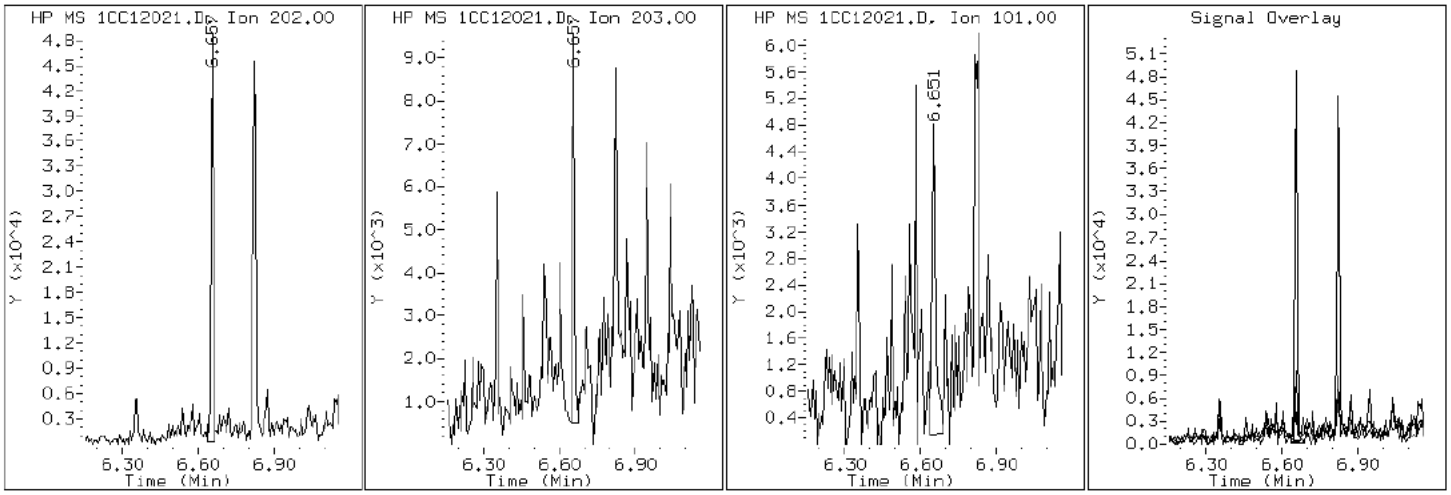
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

15 Fluoranthene



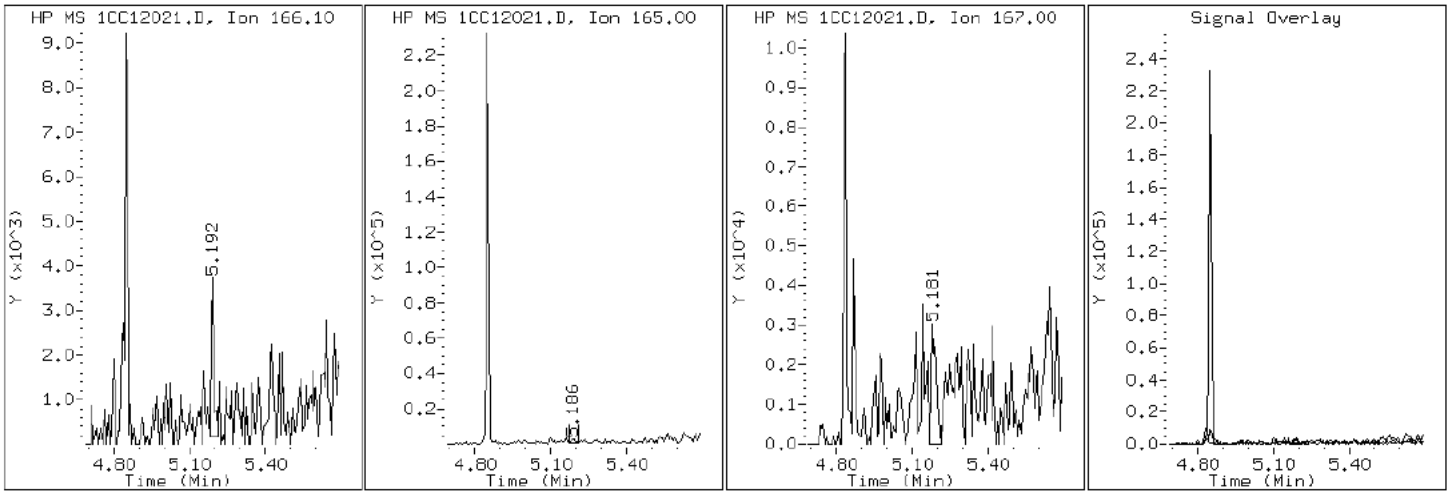
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

9 Fluorene



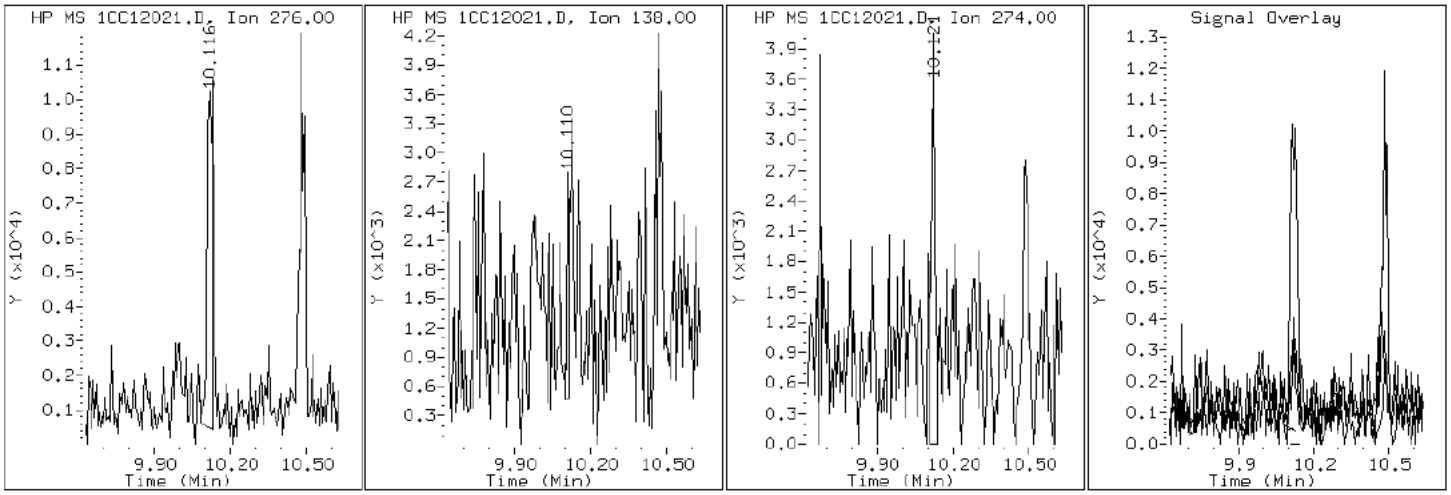
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

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



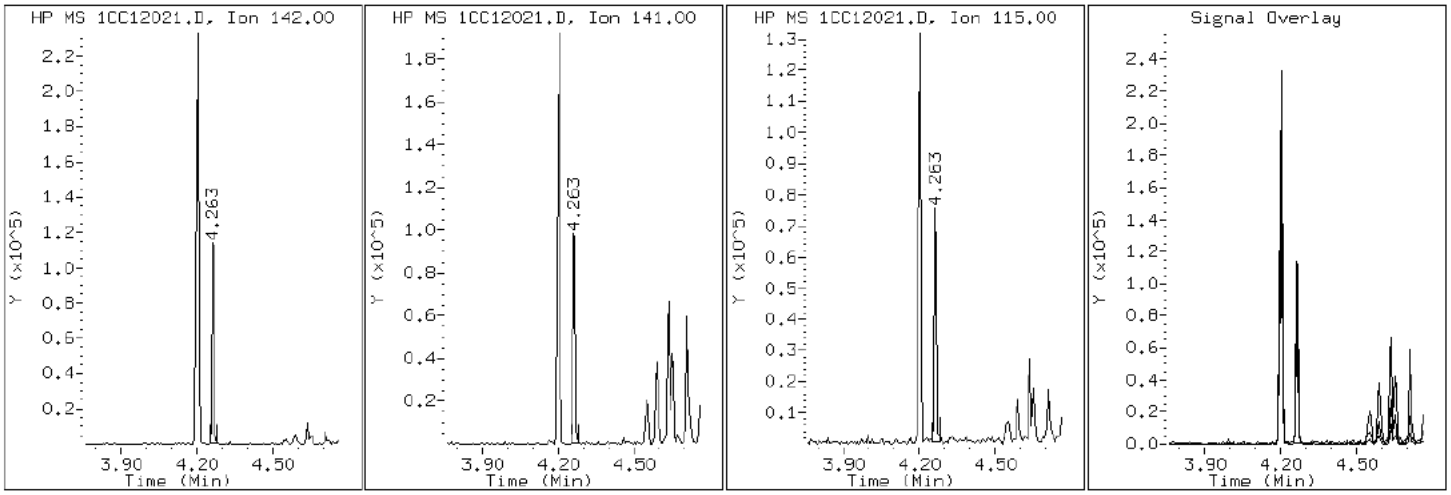
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

4 1-Methylnaphthalene



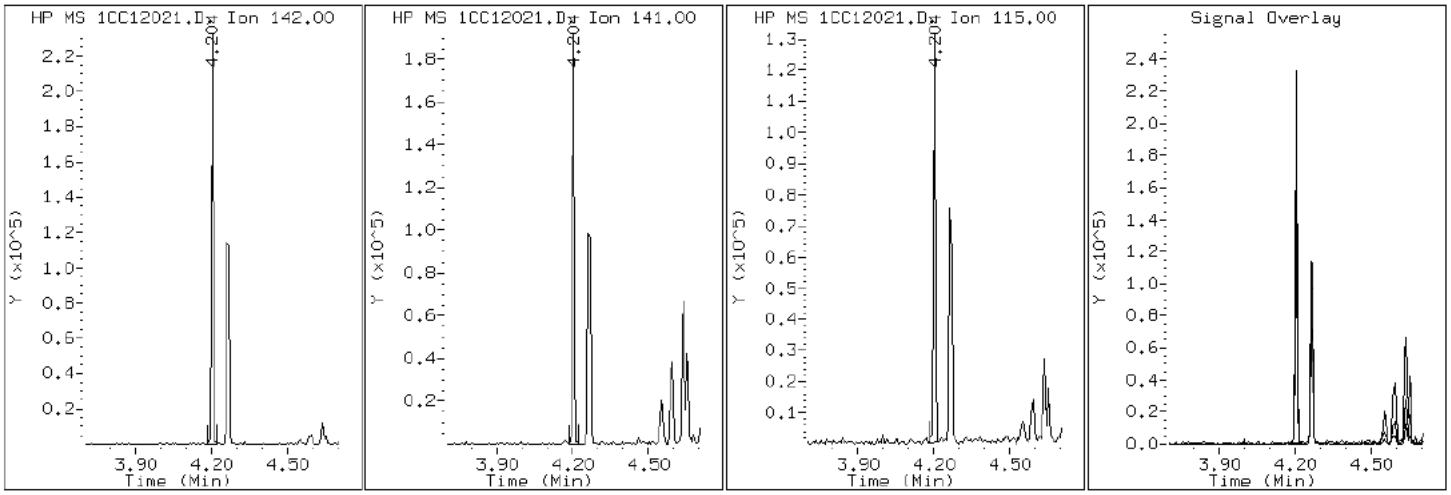
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

3 2-Methylnaphthalene



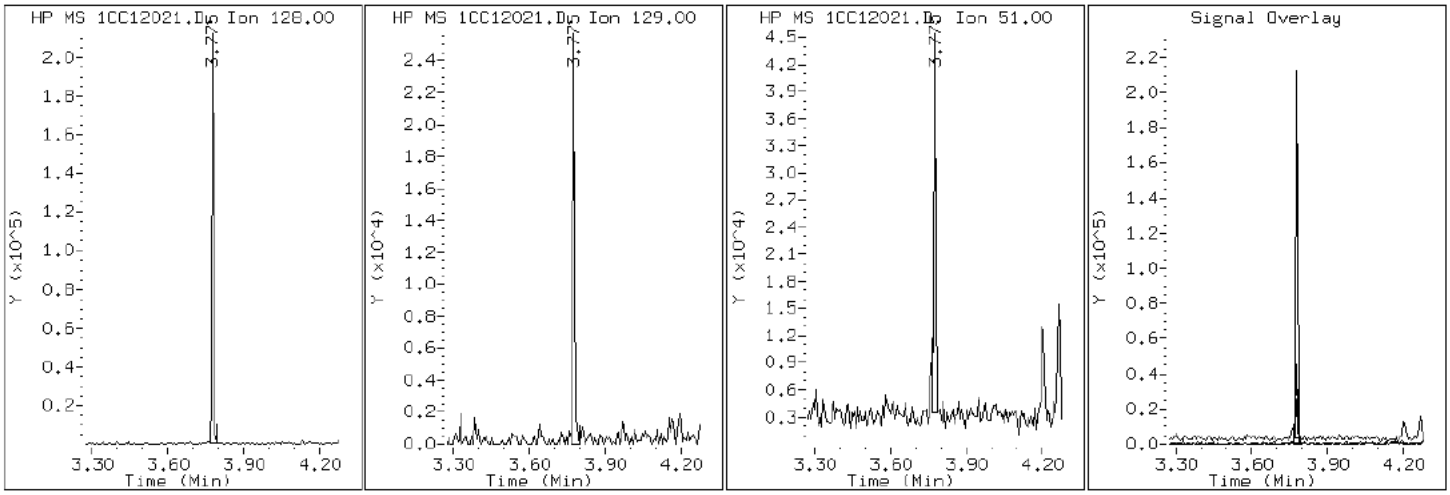
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

2 Naphthalene



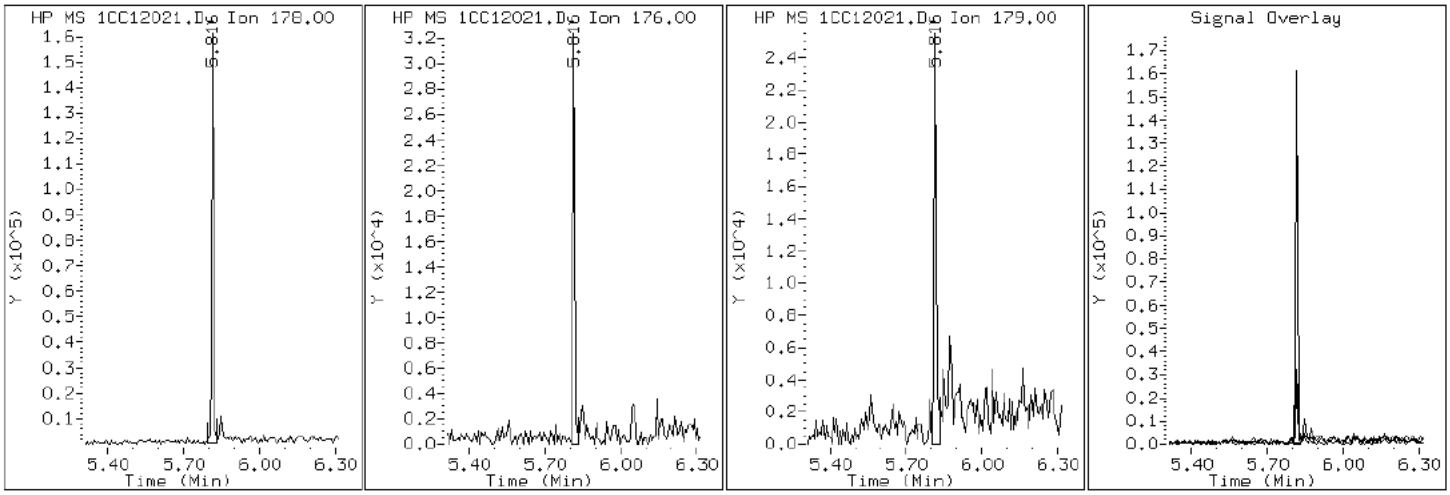
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

11 Phenanthrene



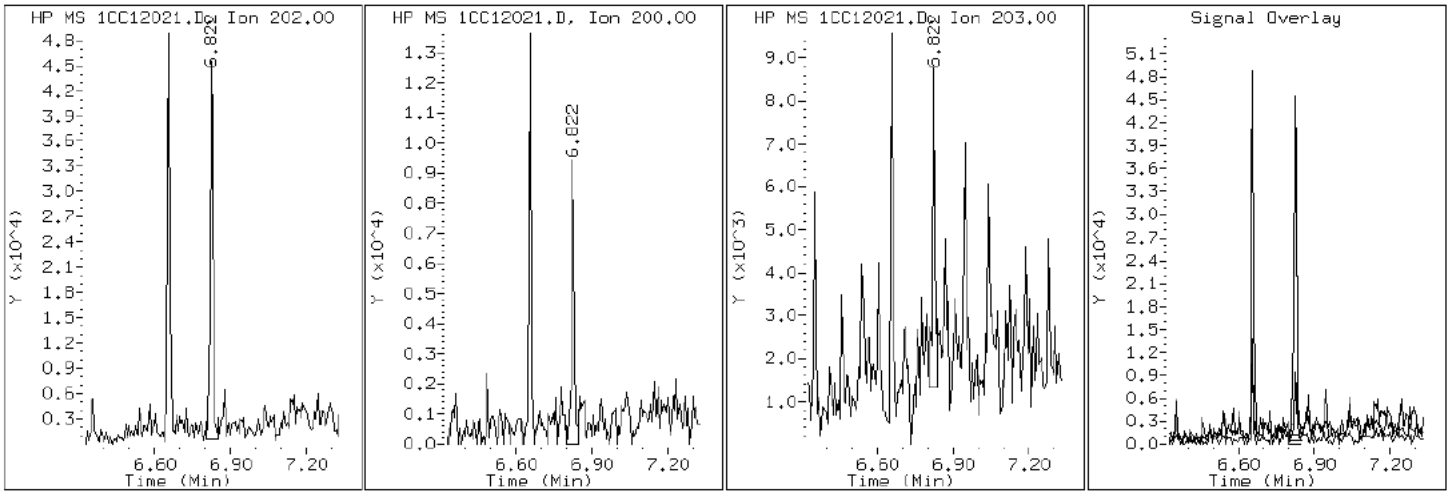
Data File: 1CC12021.D

Date: 12-MAR-2013 18:20

Client ID: HP0253B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12021.D
Inj. Date and Time: 12-MAR-2013 18:20
Instrument ID: BSMC5973.i
Client ID: HP0253B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

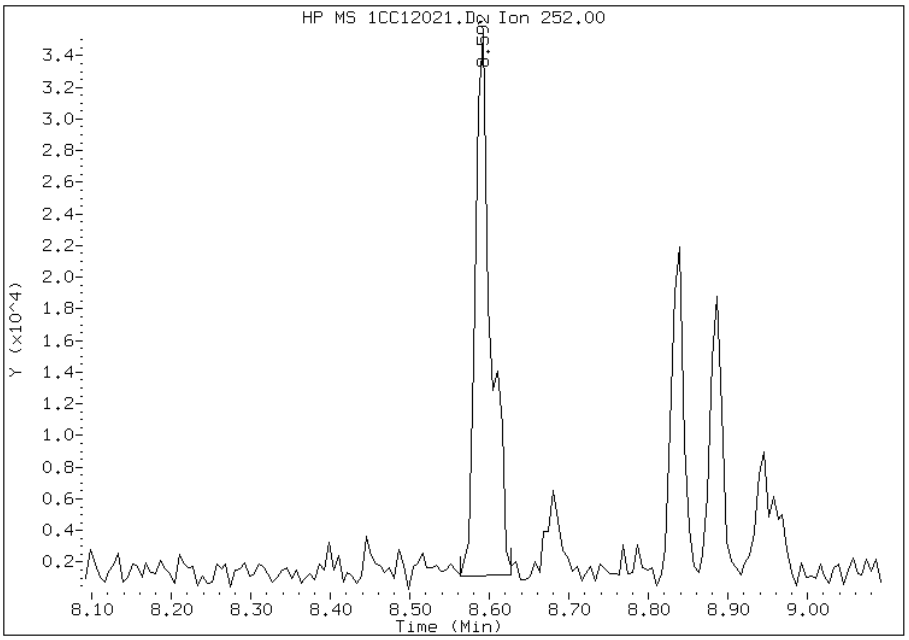
Processing Integration Results

RT: 8.59

Response: 47338

Amount: 1

Conc: 311



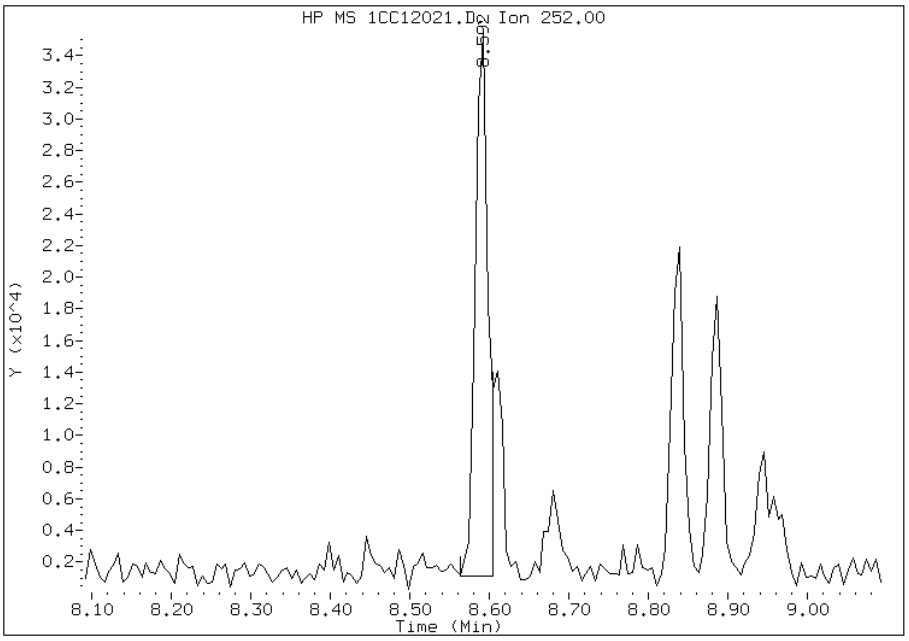
Manual Integration Results

RT: 8.59

Response: 38672

Amount: 1

Conc: 254



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12021.D
Inj. Date and Time: 12-MAR-2013 18:20
Instrument ID: BSMC5973.i
Client ID: HP0253B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

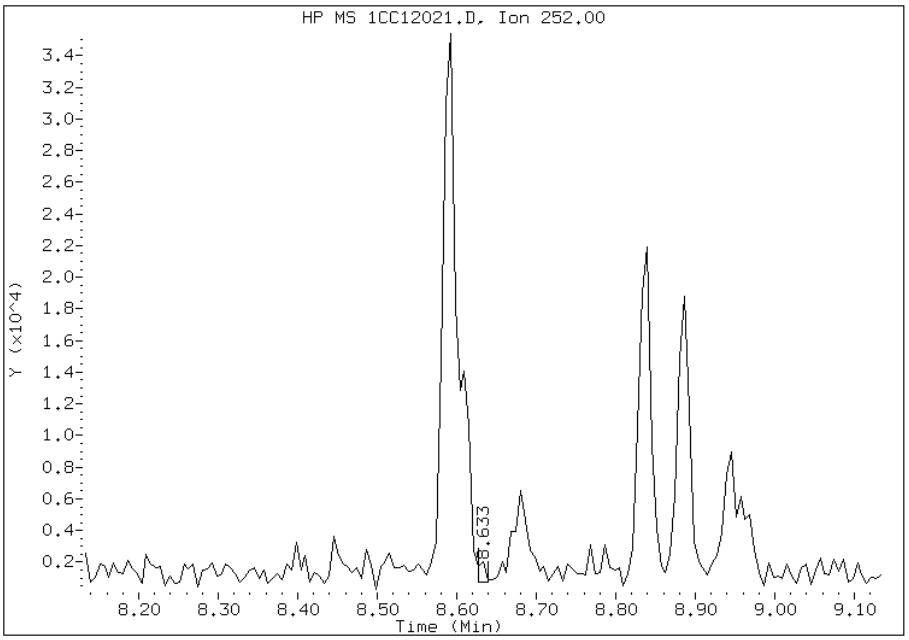
Processing Integration Results

RT: 8.63

Response: 873

Amount: 0

Conc: 6



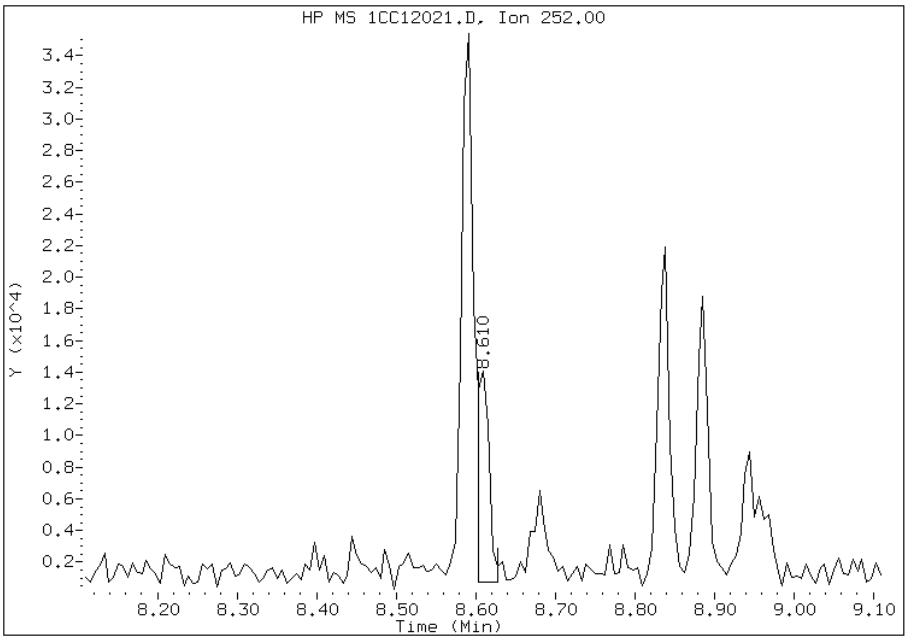
Manual Integration Results

RT: 8.61

Response: 13490

Amount: 0

Conc: 86



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12021.D
Inj. Date and Time: 12-MAR-2013 18:20
Instrument ID: BSMC5973.i
Client ID: HP0253B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

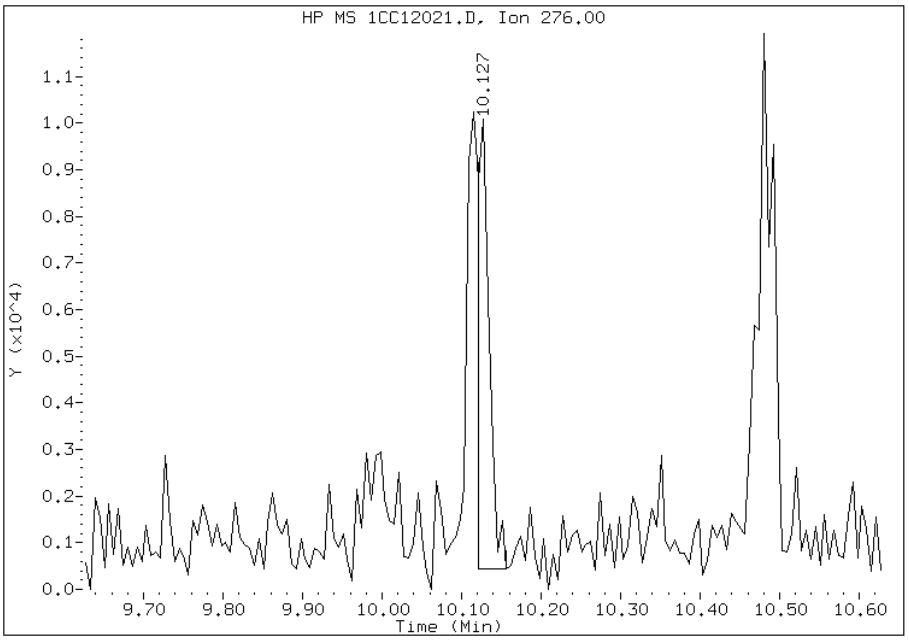
Processing Integration Results

RT: 10.13

Response: 9811

Amount: 0

Conc: 70



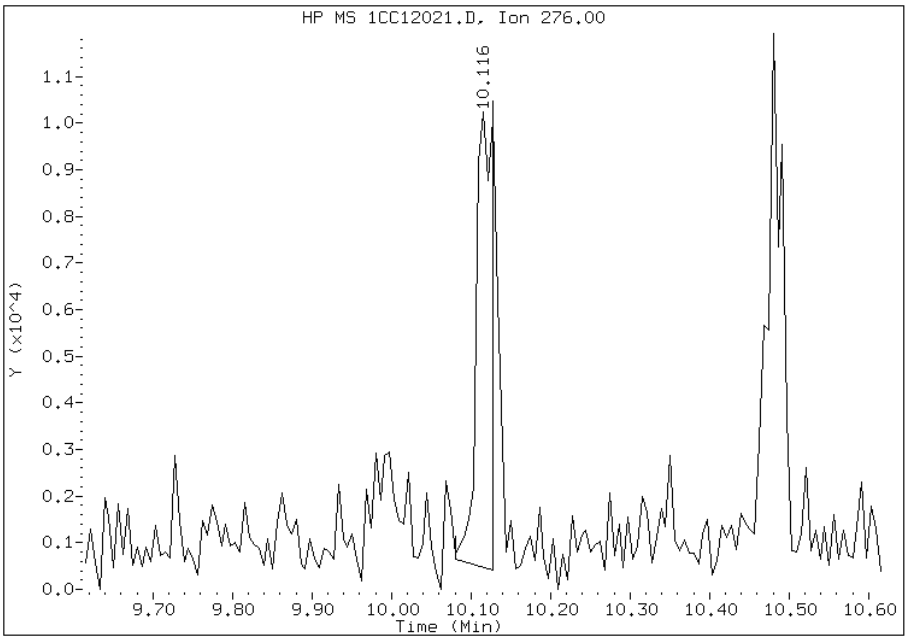
Manual Integration Results

RT: 10.12

Response: 14131

Amount: 0

Conc: 101



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:44
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0253B-CSD | Lab Sample ID: 680-88067-10

Matrix: Solid | Lab File ID: 1CC12022.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 12:50

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

Sample wt/vol: 15.20(g) | Date Analyzed: 03/12/2013 18:38

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

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

% Moisture: 28.8 | 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	28
208-96-8	Acenaphthylene	55	U	55	6.9
120-12-7	Anthracene	7.5	J	12	5.8
56-55-3	Benzo[a]anthracene	36		11	5.4
50-32-8	Benzo[a]pyrene	23		14	7.2
205-99-2	Benzo[b]fluoranthene	46		17	8.5
191-24-2	Benzo[g,h,i]perylene	19	J	28	6.1
207-08-9	Benzo[k]fluoranthene	14		11	5.0
218-01-9	Chrysene	40		12	6.2
53-70-3	Dibenz(a,h)anthracene	10	J	28	5.7
206-44-0	Fluoranthene	39		28	5.5
86-73-7	Fluorene	9.4	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	15	J	28	9.8
90-12-0	1-Methylnaphthalene	69		55	6.1
91-57-6	2-Methylnaphthalene	75		55	9.8
91-20-3	Naphthalene	72		55	6.1
85-01-8	Phenanthrene	59		11	5.4
129-00-0	Pyrene	40		28	5.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12022.D
Lab Smp Id: 680-88067-A-10-A Client Smp ID: HP0253B-CSD
Inj Date : 12-MAR-2013 18:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-10-a
Misc Info : 680-88067-A-10-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: 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	15.200	Weight Extracted
M	28.820	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1369631	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1069926	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1956229	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	166881	5.65014	522.2259
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2150265	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	1984232	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	27680	0.77629	71.7504
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	19196	0.80708	74.5958
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	16085	0.74254	68.6310
9 Fluorene	166	5.192	5.192	(1.070)	3445	0.10160	9.3904
11 Phenanthrene	178	5.815	5.815	(1.002)	36092	0.63806	58.9737
12 Anthracene	178	5.851	5.851	(1.008)	4492	0.08120	7.5050
13 Carbazole	167	5.957	5.957	(1.026)	5874	0.11945	11.0402(Q)
15 Fluoranthene	202	6.657	6.657	(1.147)	25921	0.41844	38.6756

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.821	6.827	(0.881)	25081	0.43404	40.1168
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	24423	0.39353	36.3731
19 Chrysene	228	7.762	7.768	(1.002)	26724	0.43029	39.7701
20 Benzo(b)fluoranthene	252	8.586	8.592	(0.960)	26082	0.50298	46.4885(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	8004	0.15046	13.9069(QMH)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	12422	0.24662	22.7945
24 Indeno(1,2,3-cd)pyrene	276	10.115	10.127	(1.131)	7649	0.16143	14.9205(M)
25 Dibenzo(a,h)anthracene	278	10.133	10.145	(1.133)	5122	0.11051	10.2145
26 Benzo(g,h,i)perylene	276	10.486	10.486	(1.172)	10261	0.20702	19.1339

QC Flag Legend

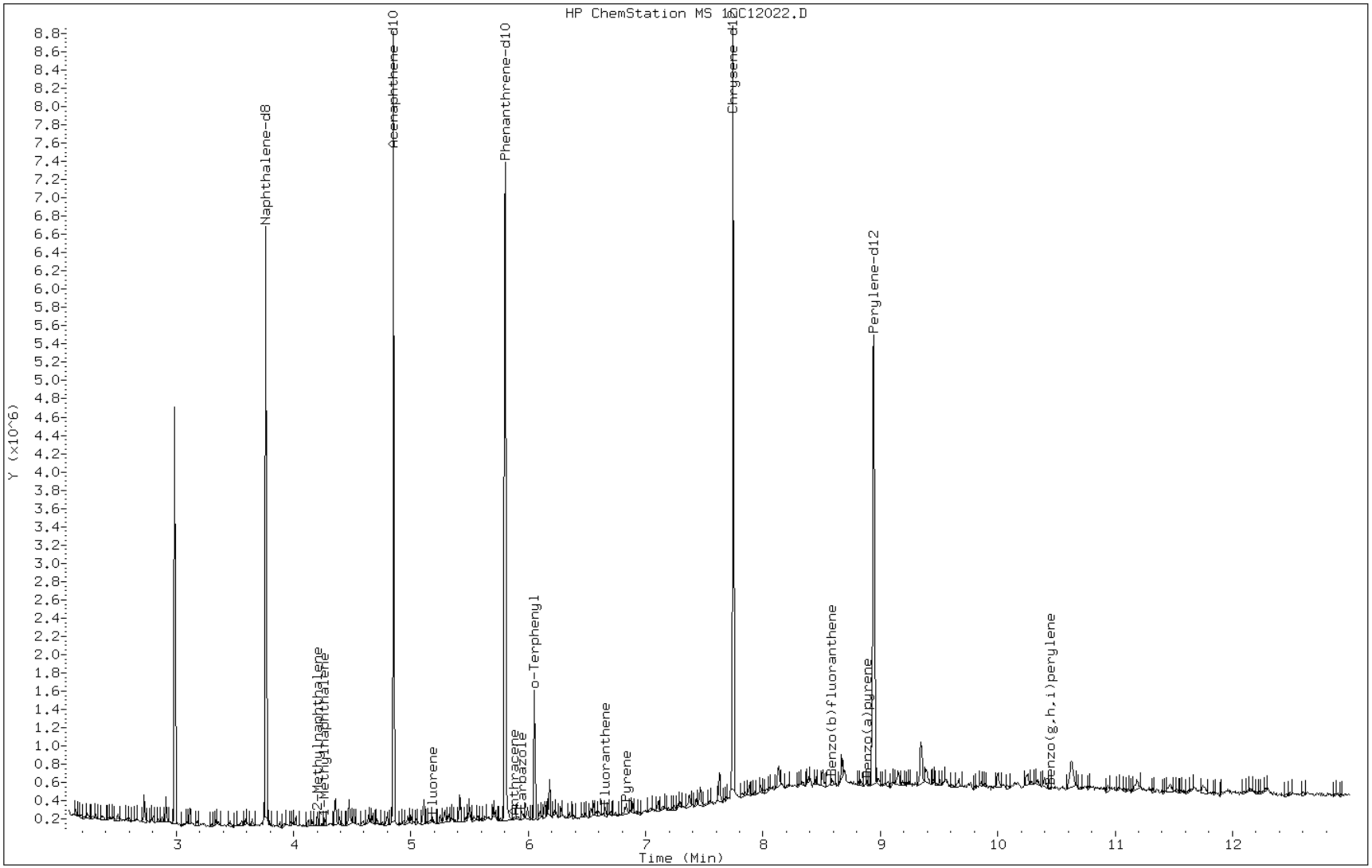
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC



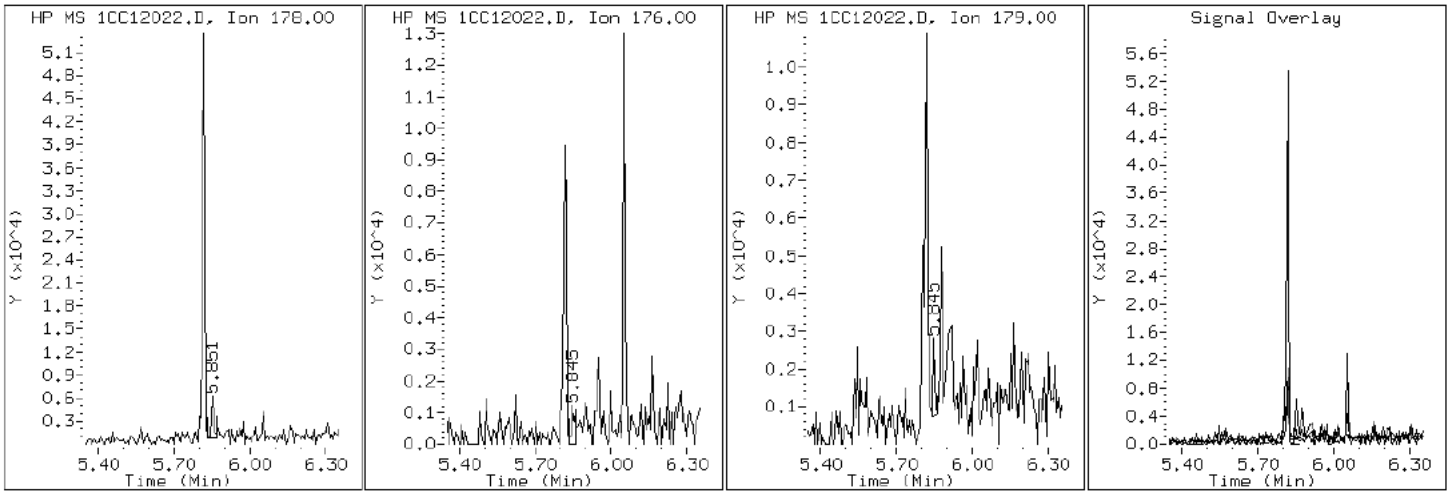
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

12 Anthracene



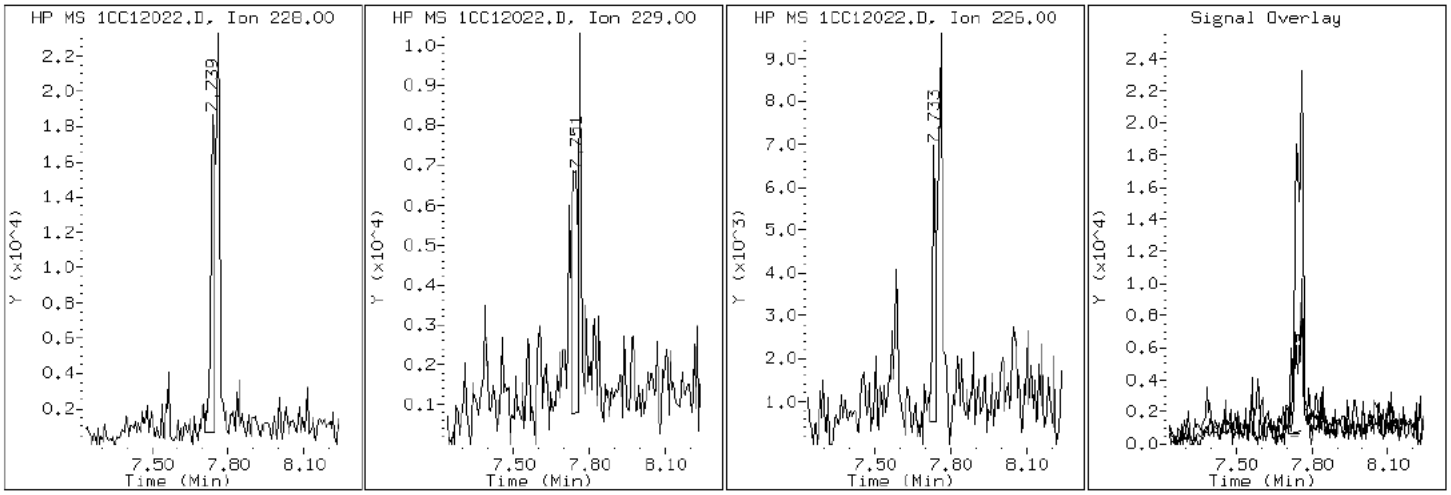
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

17 Benzo(a)anthracene



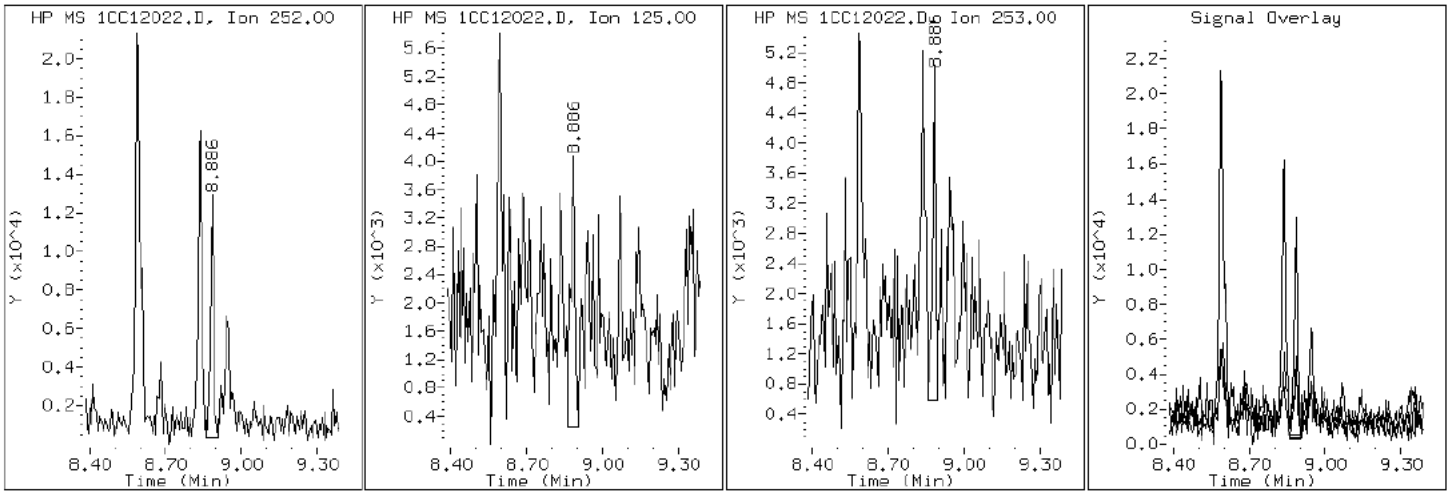
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

22 Benzo(a)pyrene



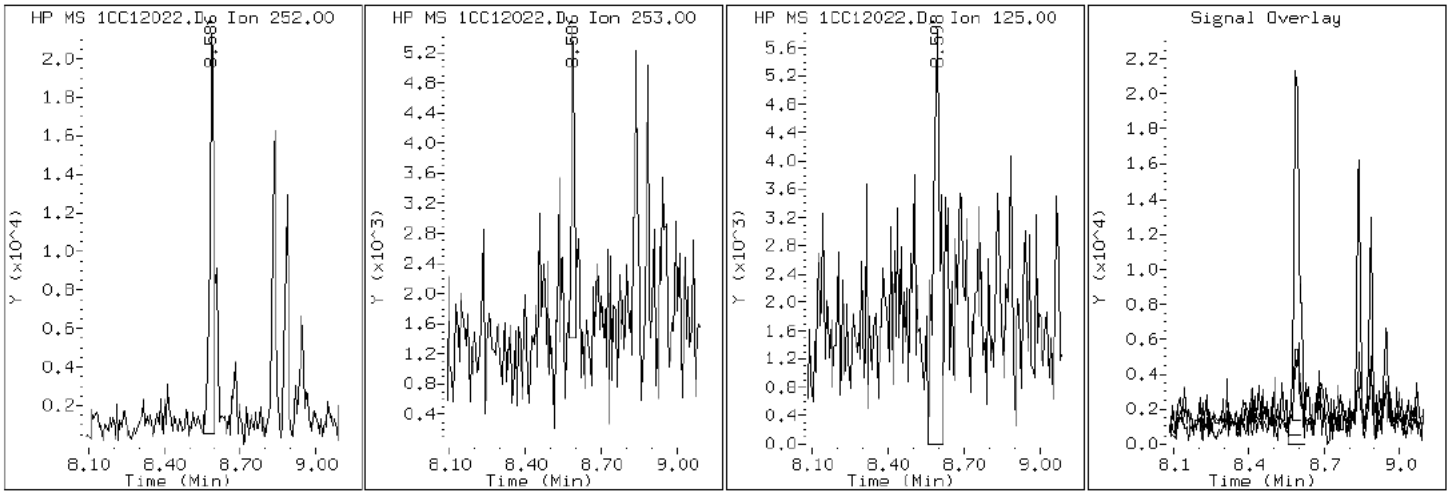
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



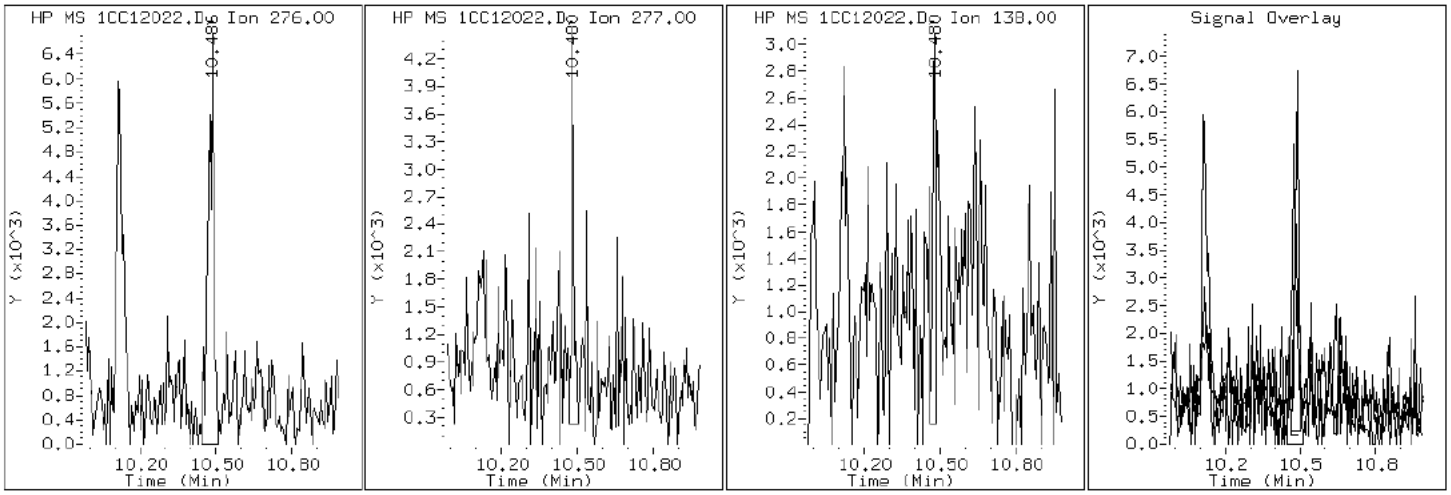
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



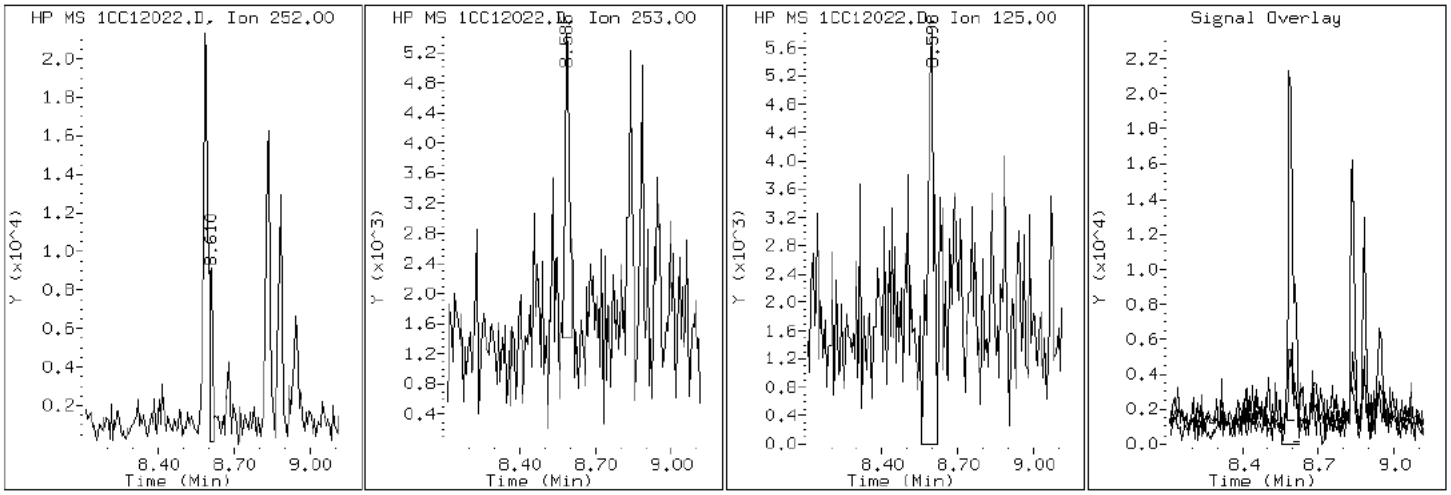
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



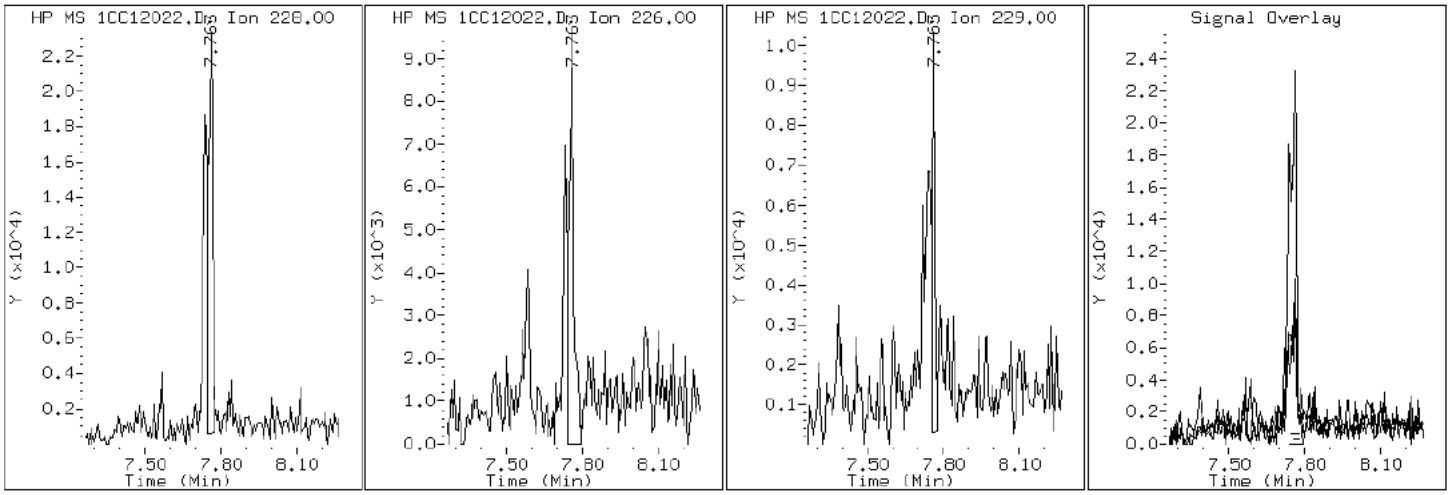
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

19 Chrysene



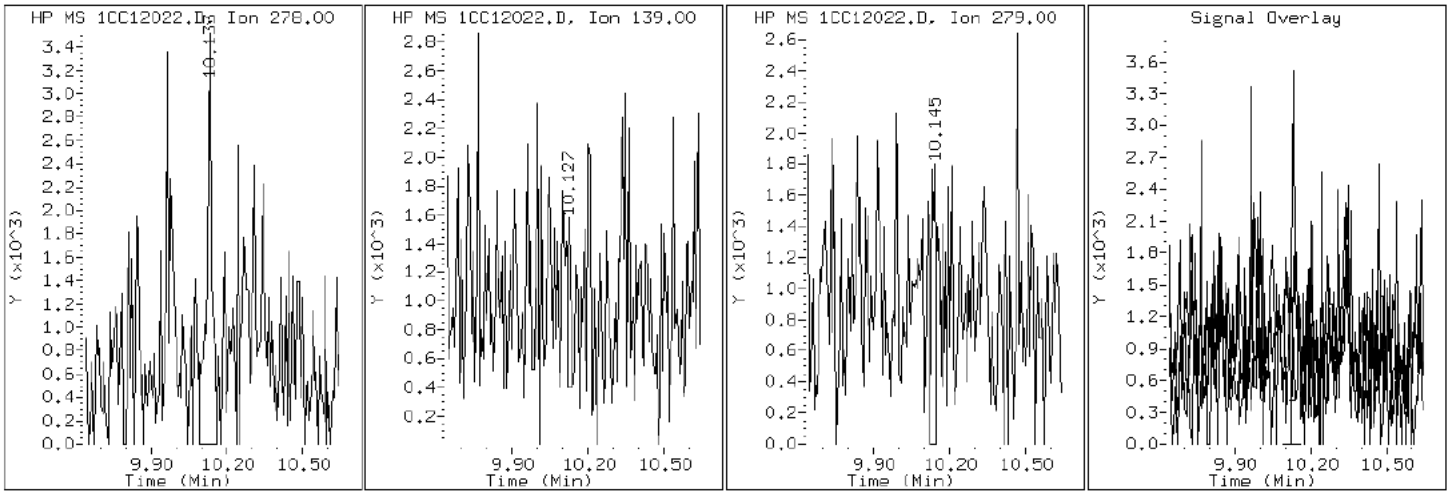
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



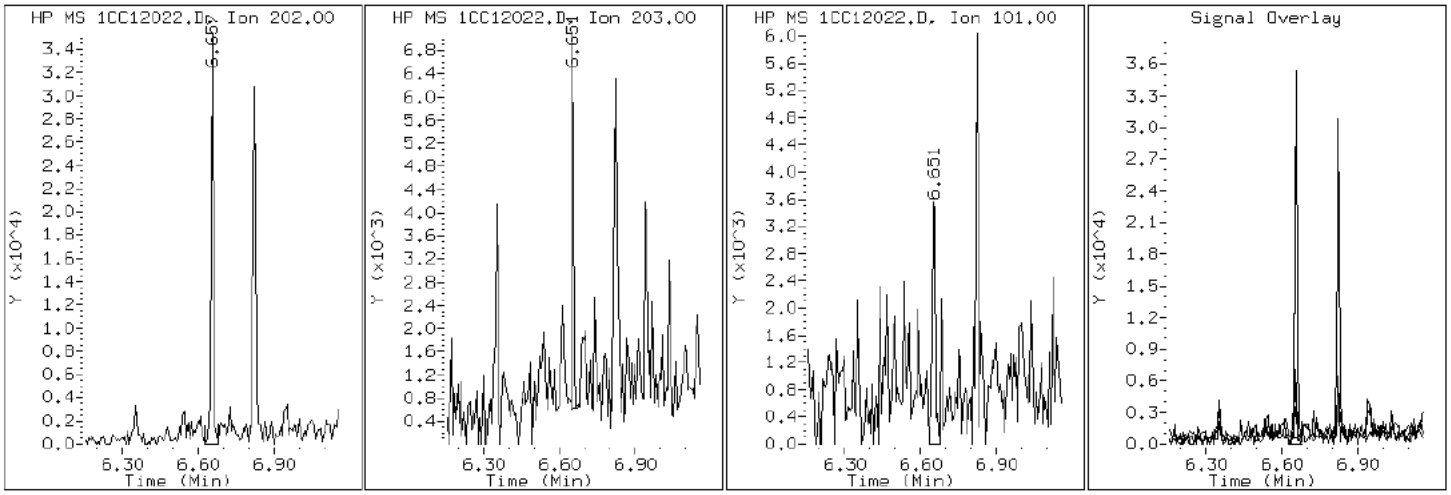
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

15 Fluoranthene



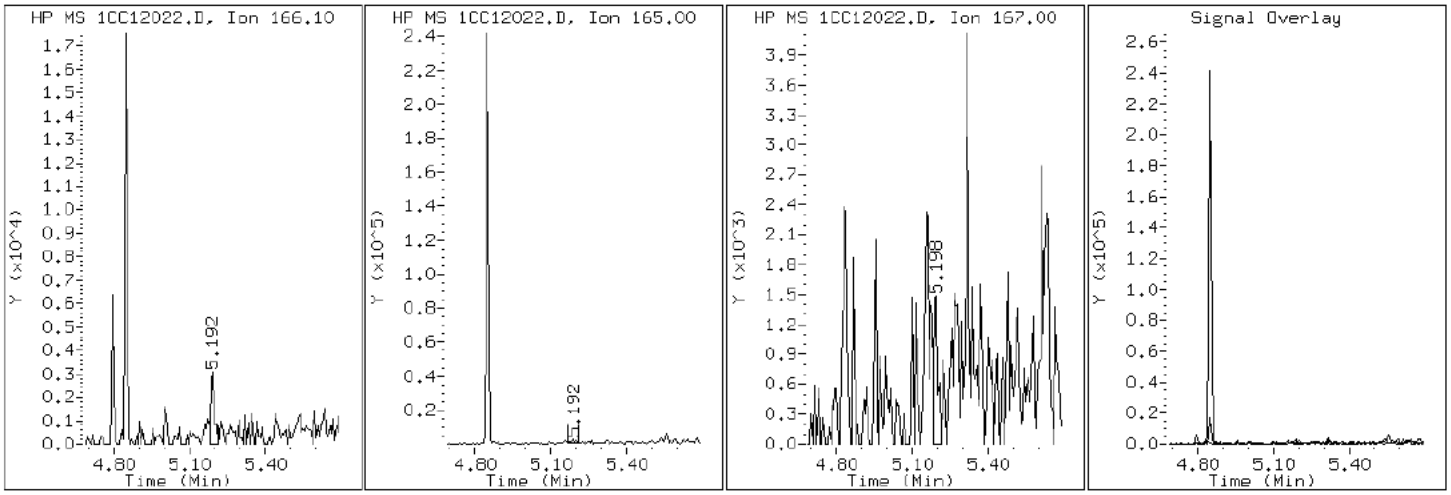
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

9 Fluorene



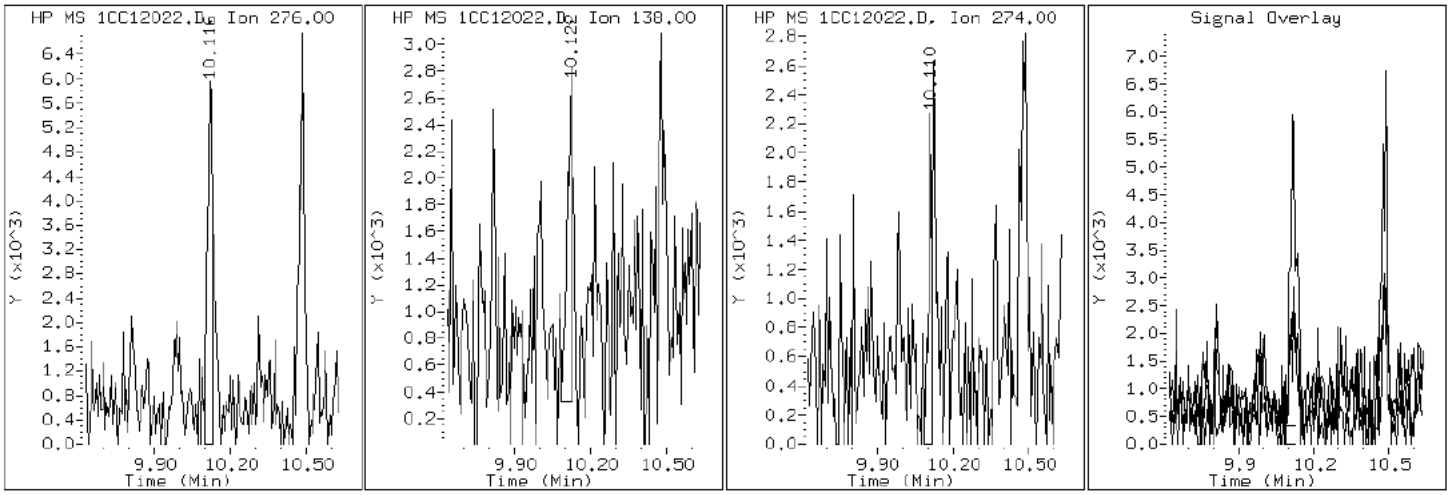
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

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



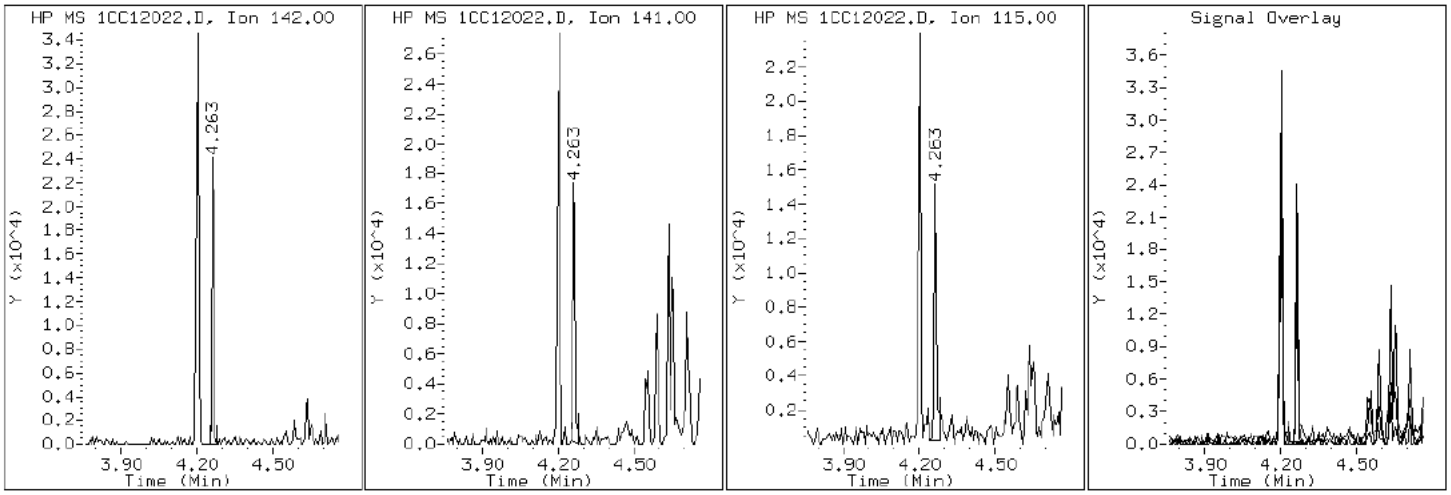
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

4 1-Methylnaphthalene



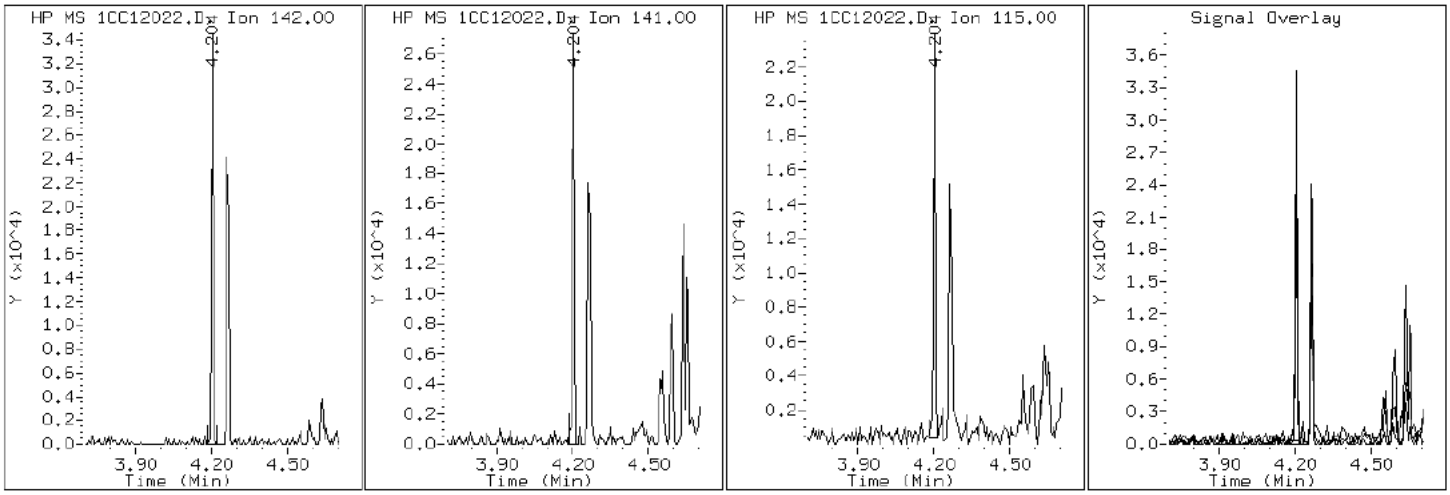
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

3 2-Methylnaphthalene



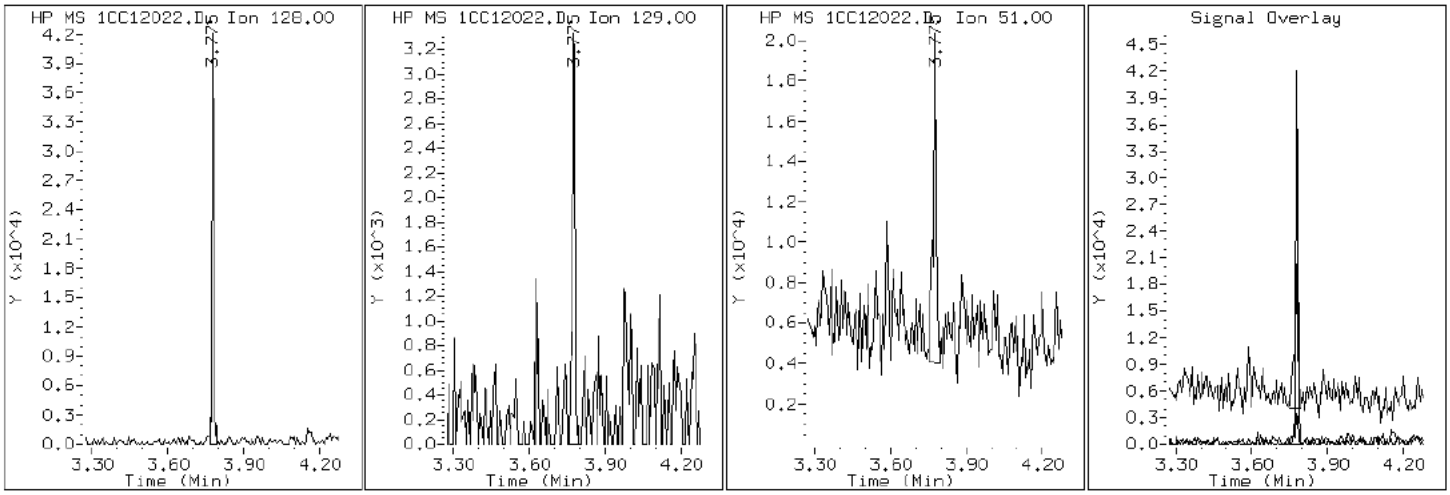
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

2 Naphthalene



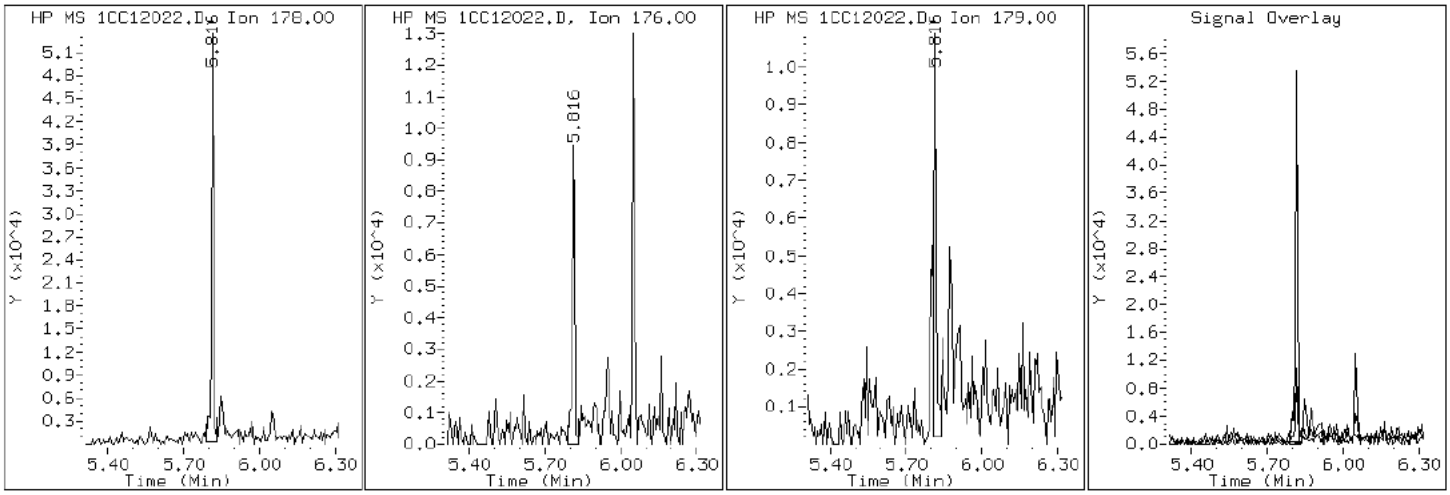
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

11 Phenanthrene



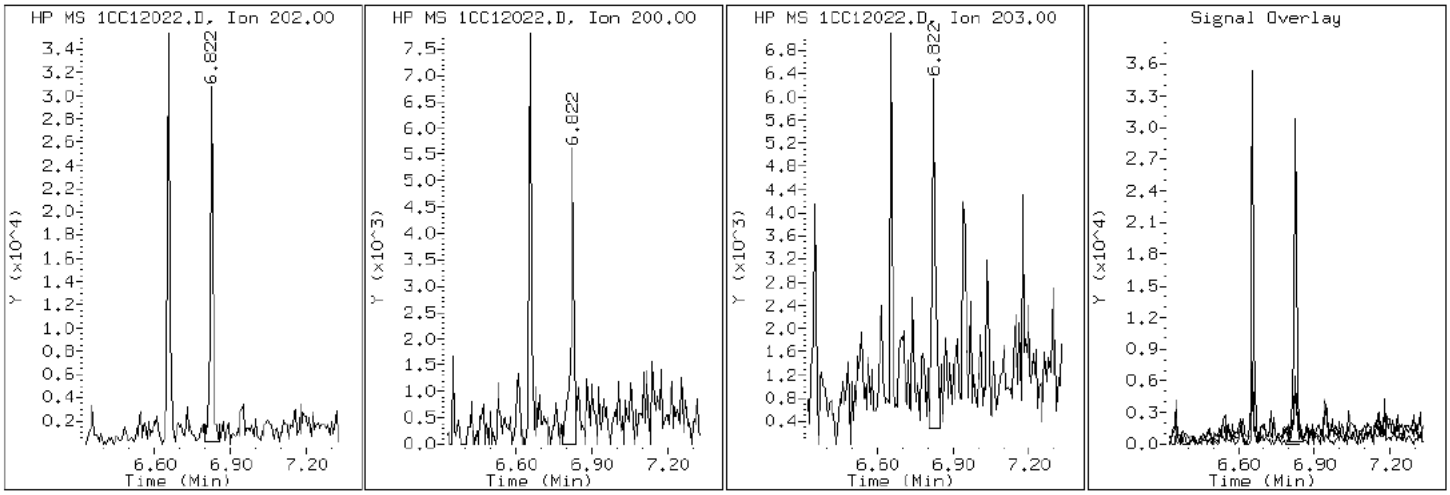
Data File: 1CC12022.D

Date: 12-MAR-2013 18:38

Client ID: HP0253B-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12022.D
Inj. Date and Time: 12-MAR-2013 18:38
Instrument ID: BSMC5973.i
Client ID: HP0253B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

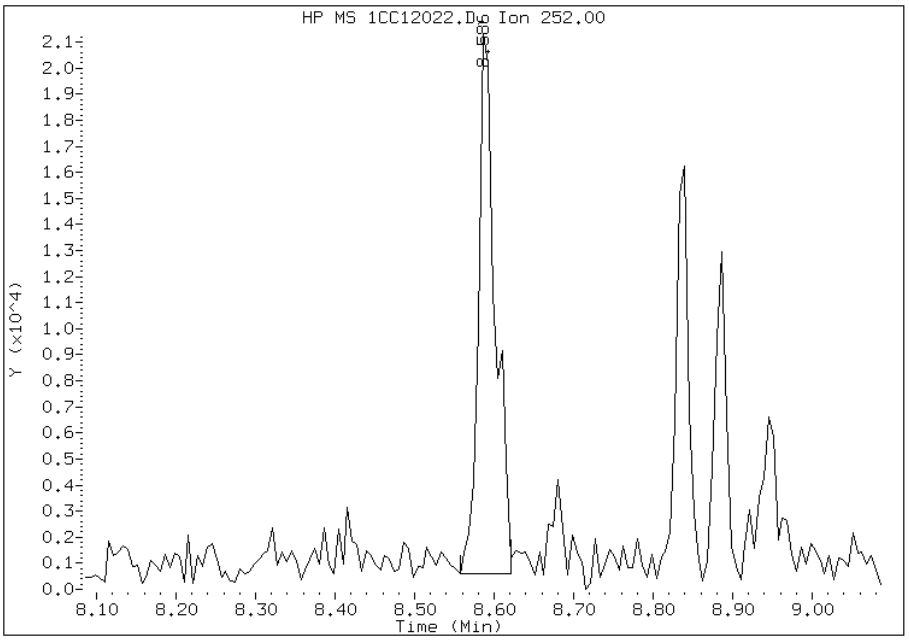
Processing Integration Results

RT: 8.59

Response: 30832

Amount: 1

Conc: 55



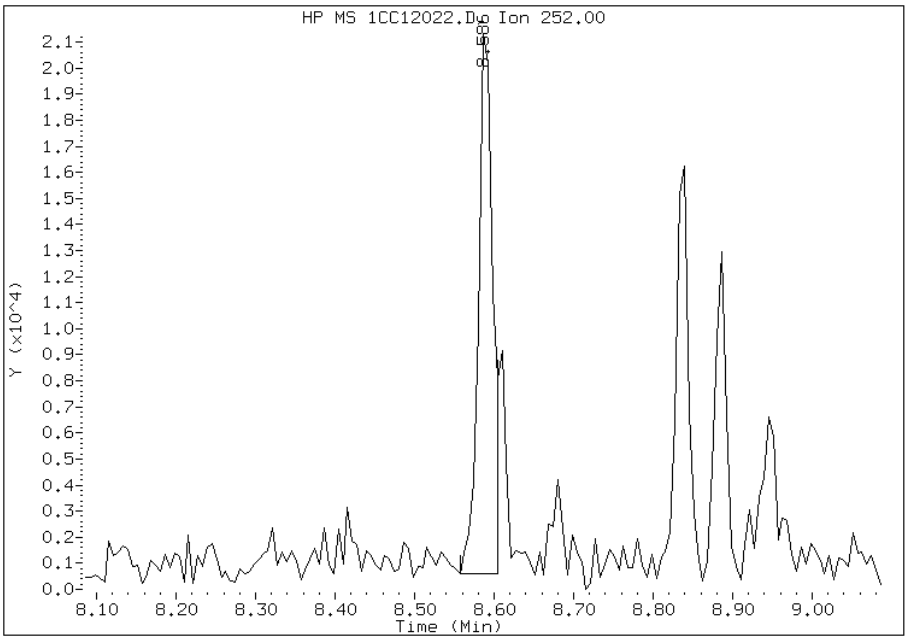
Manual Integration Results

RT: 8.59

Response: 26082

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12022.D
Inj. Date and Time: 12-MAR-2013 18:38
Instrument ID: BSMC5973.i
Client ID: HP0253B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

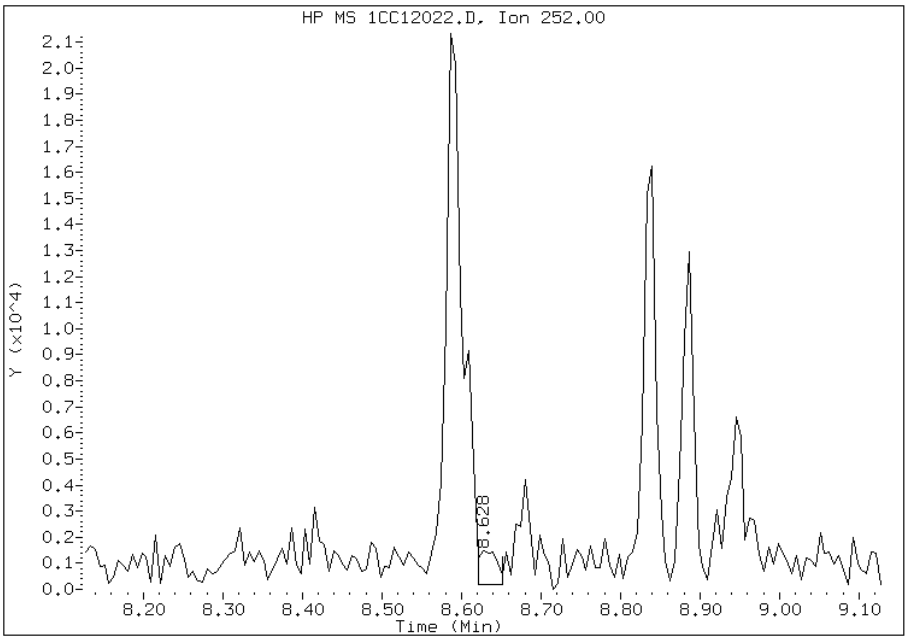
Processing Integration Results

RT: 8.63

Response: 2116

Amount: 0

Conc: 4



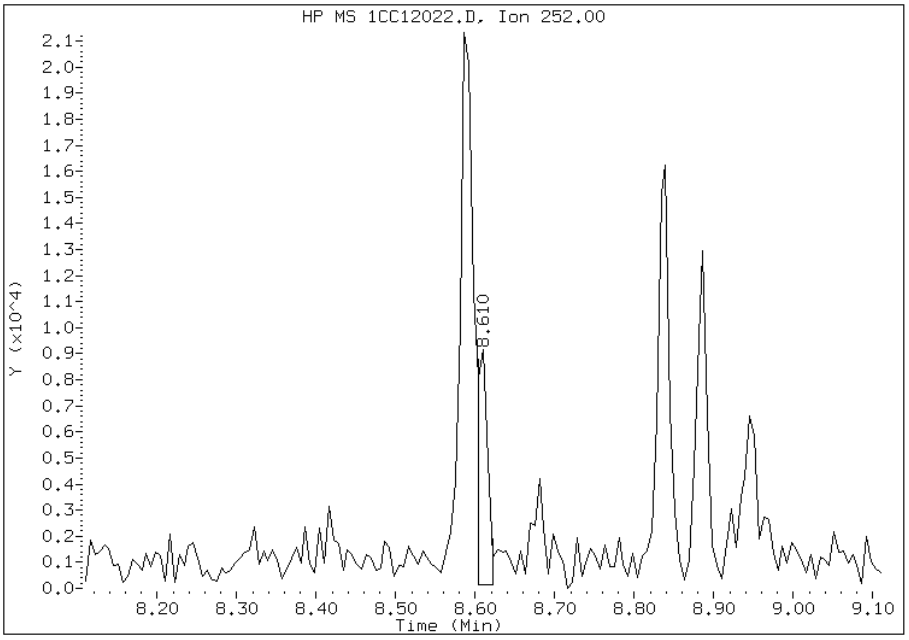
Manual Integration Results

RT: 8.61

Response: 8004

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12022.D
Inj. Date and Time: 12-MAR-2013 18:38
Instrument ID: BSMC5973.i
Client ID: HP0253B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

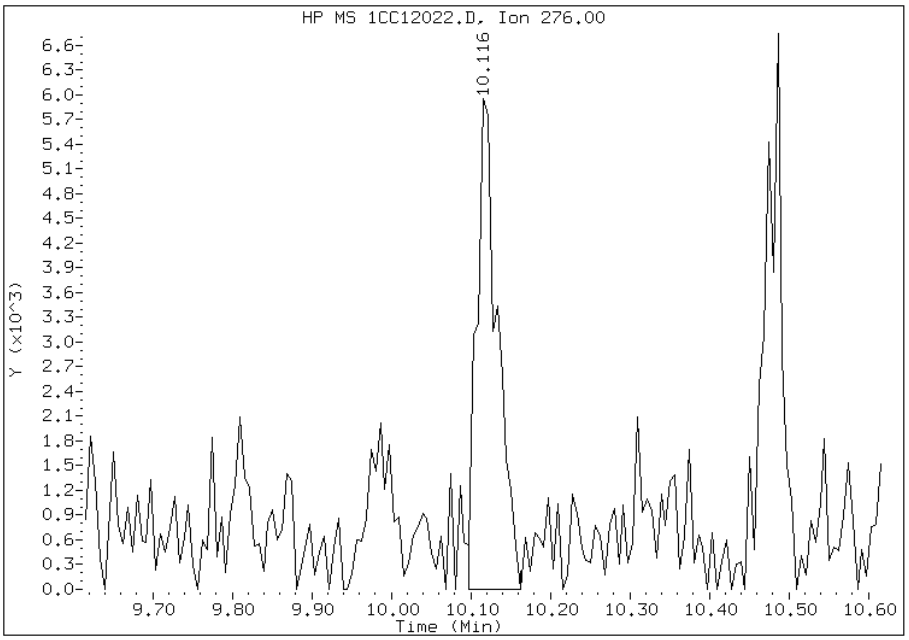
Processing Integration Results

RT: 10.12

Response: 10950

Amount: 0

Conc: 21



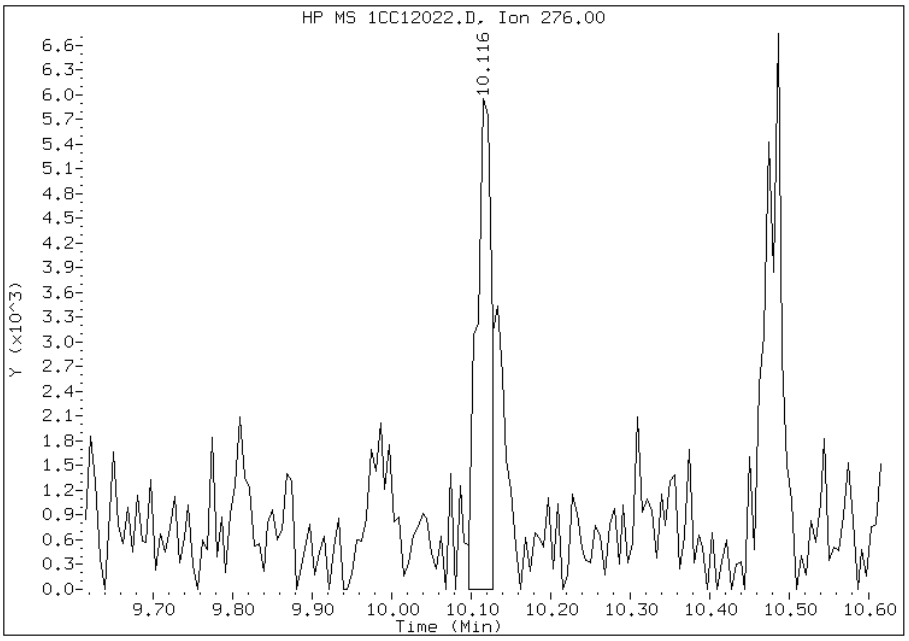
Manual Integration Results

RT: 10.12

Response: 7649

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: HP0255A-CS | Lab Sample ID: 680-88067-11

Matrix: Solid | Lab File ID: 1CC12023.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 13:00

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

Sample wt/vol: 14.93(g) | Date Analyzed: 03/12/2013 18:56

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

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	9.3	J	51	6.4
120-12-7	Anthracene	8.6	J	11	5.3
56-55-3	Benzo[a]anthracene	70		10	5.0
50-32-8	Benzo[a]pyrene	80		13	6.6
205-99-2	Benzo[b]fluoranthene	160		16	7.8
191-24-2	Benzo[g,h,i]perylene	85		25	5.6
207-08-9	Benzo[k]fluoranthene	58		10	4.6
218-01-9	Chrysene	100		11	5.7
53-70-3	Dibenz(a,h)anthracene	27		25	5.2
206-44-0	Fluoranthene	95		25	5.1
86-73-7	Fluorene	25	U	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	56		25	9.0
90-12-0	1-Methylnaphthalene	28	J	51	5.6
91-57-6	2-Methylnaphthalene	44	J	51	9.0
91-20-3	Naphthalene	53		51	5.6
85-01-8	Phenanthrene	73		10	5.0
129-00-0	Pyrene	93		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12023.D
Lab Smp Id: 680-88067-A-11-A Client Smp ID: HP0255A-CS
Inj Date : 12-MAR-2013 18:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-11-a
Misc Info : 680-88067-A-11-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: 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	14.930	Weight Extracted
M	21.099	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1407757	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1102862	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	2012942	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	210452	6.92459	587.8289
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2134172	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	1975034	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	22968	0.62670	53.2004
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	12754	0.52171	44.2878
	4 1-Methylnaphthalene	142	4.262	4.263	(1.133)	7410	0.33281	28.2521
	5 Acenaphthylene	152	4.762	4.763	(0.982)	4885	0.10986	9.3263
	11 Phenanthrene	178	5.815	5.815	(1.002)	49917	0.85760	72.8018
	12 Anthracene	178	5.851	5.851	(1.008)	5754	0.10108	8.5807
	13 Carbazole	167	5.956	5.957	(1.026)	6144	0.12142	10.3072(Q)
	15 Fluoranthene	202	6.656	6.657	(1.147)	71220	1.11732	94.8492

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	6.821	6.827	(0.881)	62641	1.09220	92.7173
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	50781	0.82442	69.9847
19 Chrysene	228	7.762	7.768	(1.002)	72859	1.18196	100.3366
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	99334	1.92452	163.3726(M)
21 Benzo(k)fluoranthene	252	8.603	8.615	(0.962)	36334	0.68621	58.2522(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	47156	0.94058	79.8458
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	31244	0.66247	56.2371(M)
25 Dibenzo(a,h)anthracene	278	10.133	10.145	(1.133)	14924	0.32351	27.4625
26 Benzo(g,h,i)perylene	276	10.486	10.486	(1.172)	49297	0.99920	84.8224

QC Flag Legend

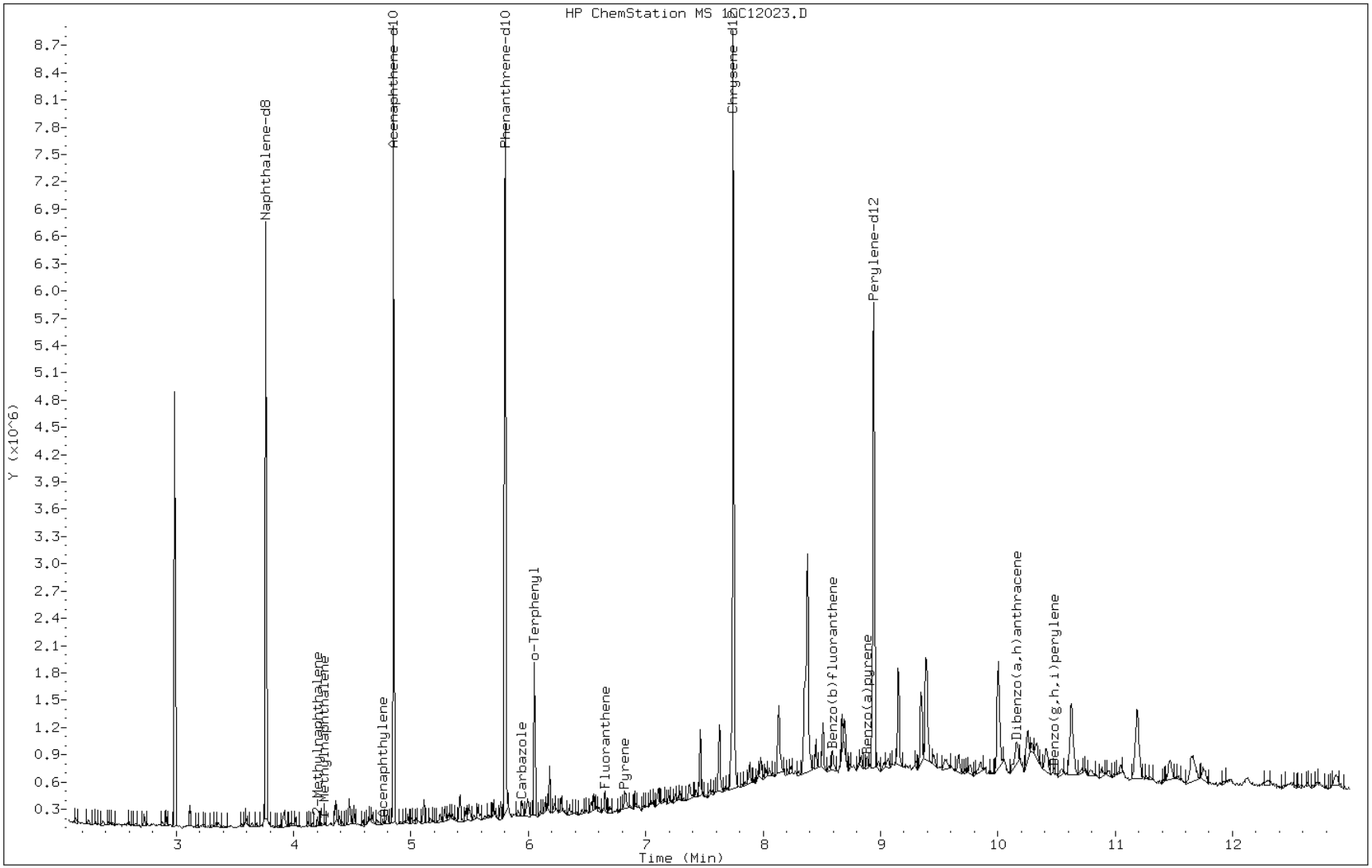
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC



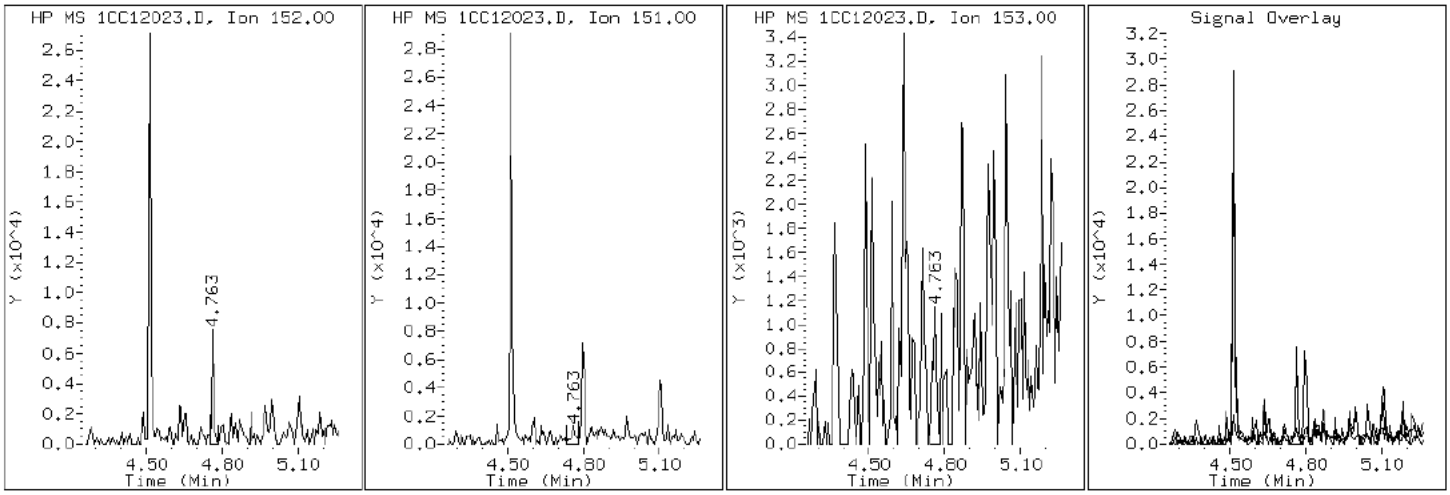
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

5 Acenaphthylene



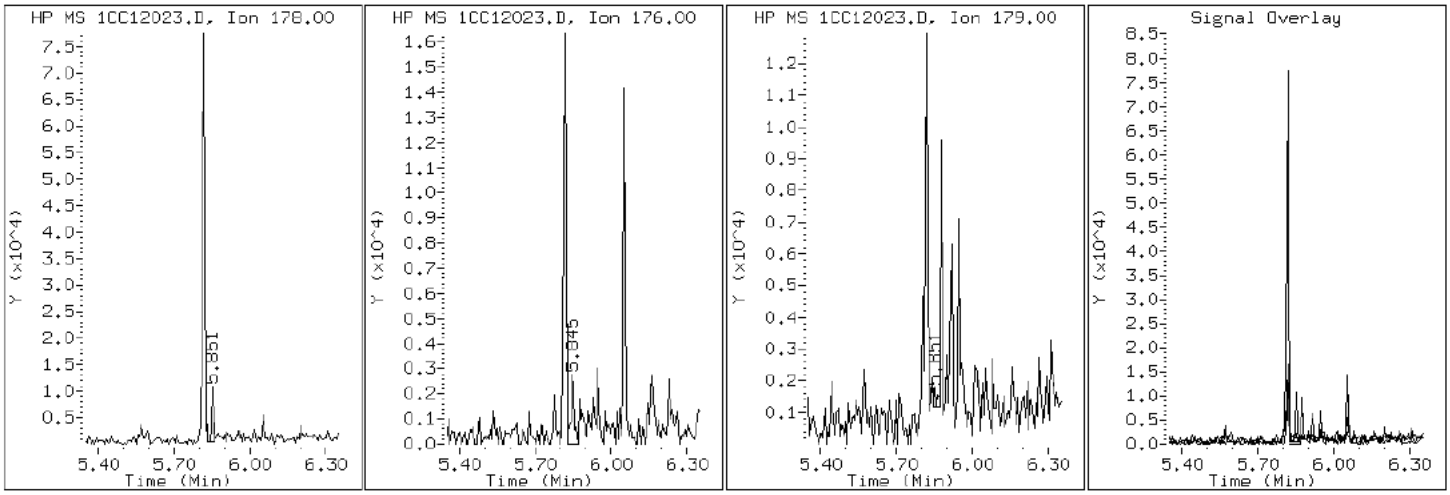
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

12 Anthracene



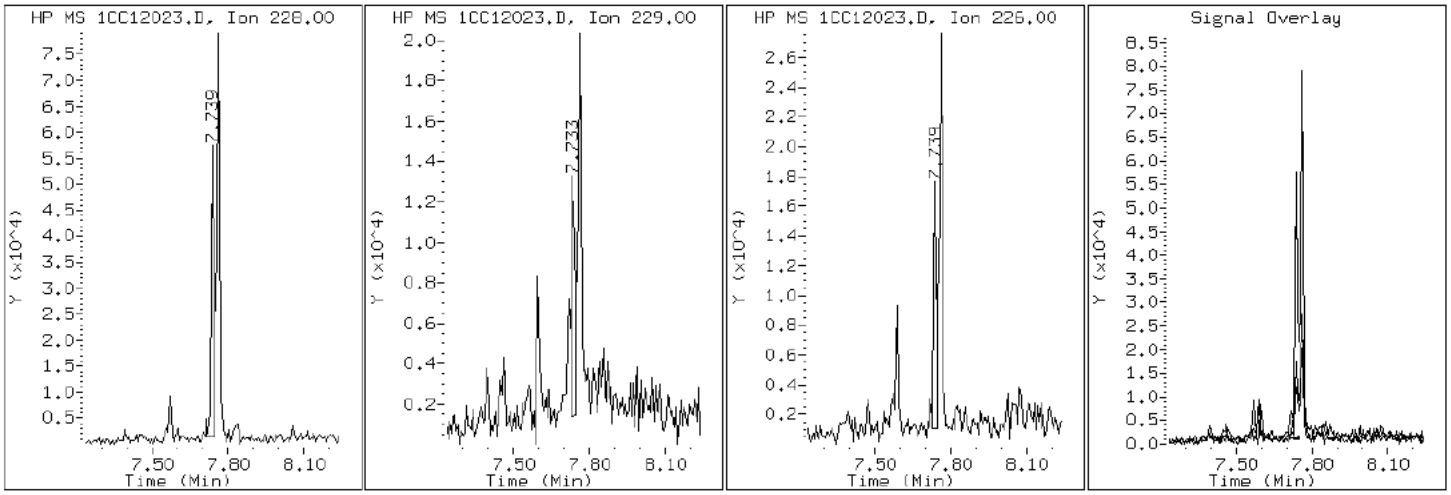
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

17 Benzo(a)anthracene



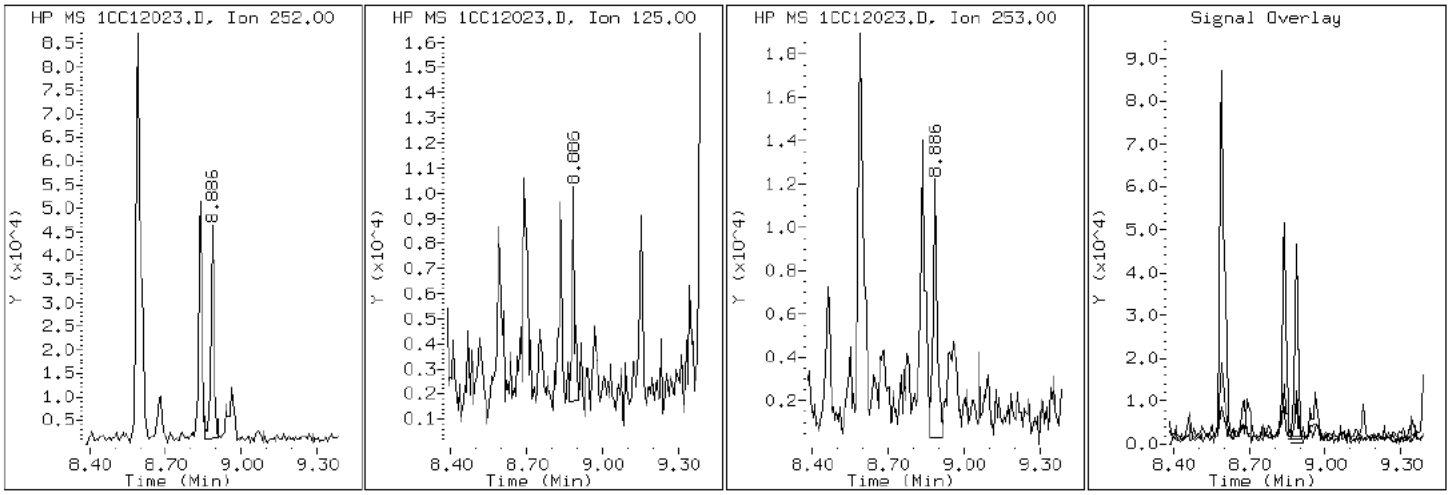
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

22 Benzo(a)pyrene



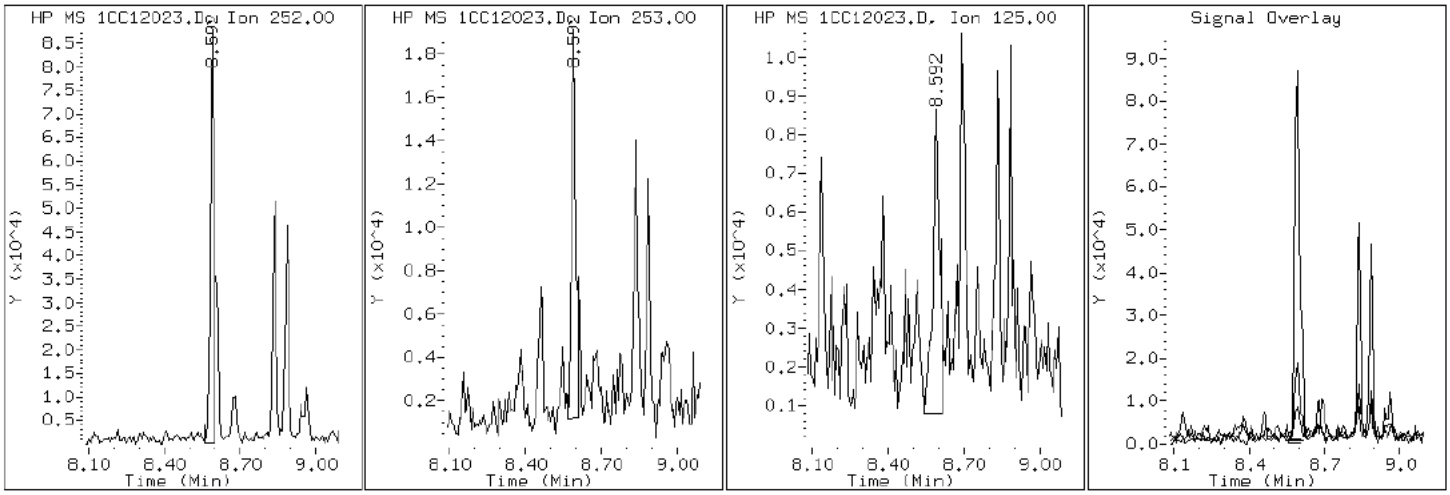
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



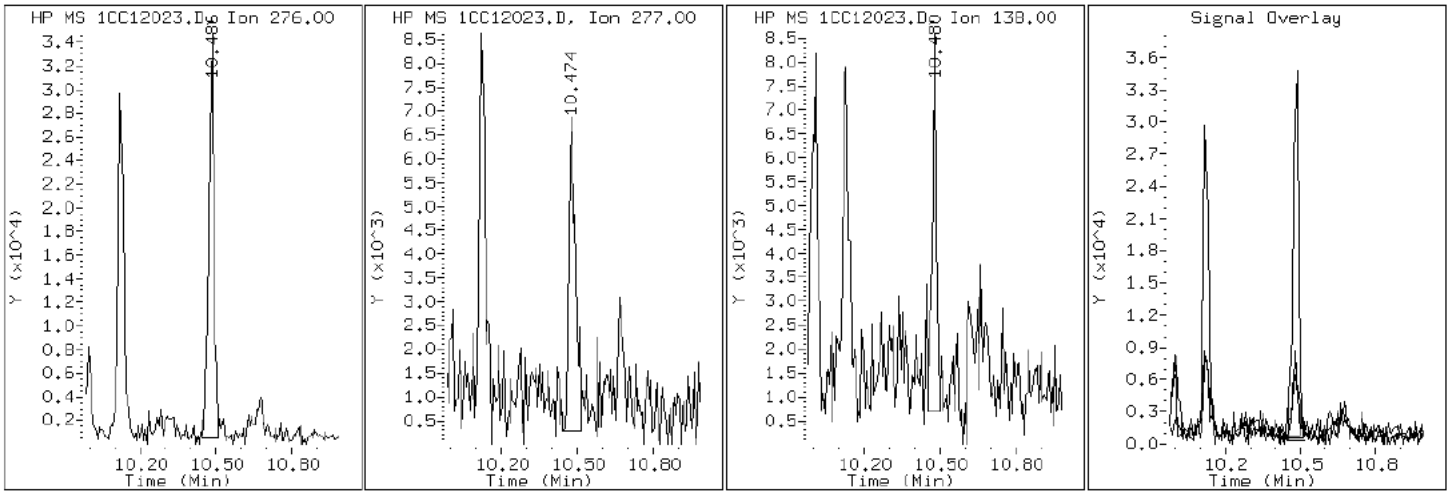
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



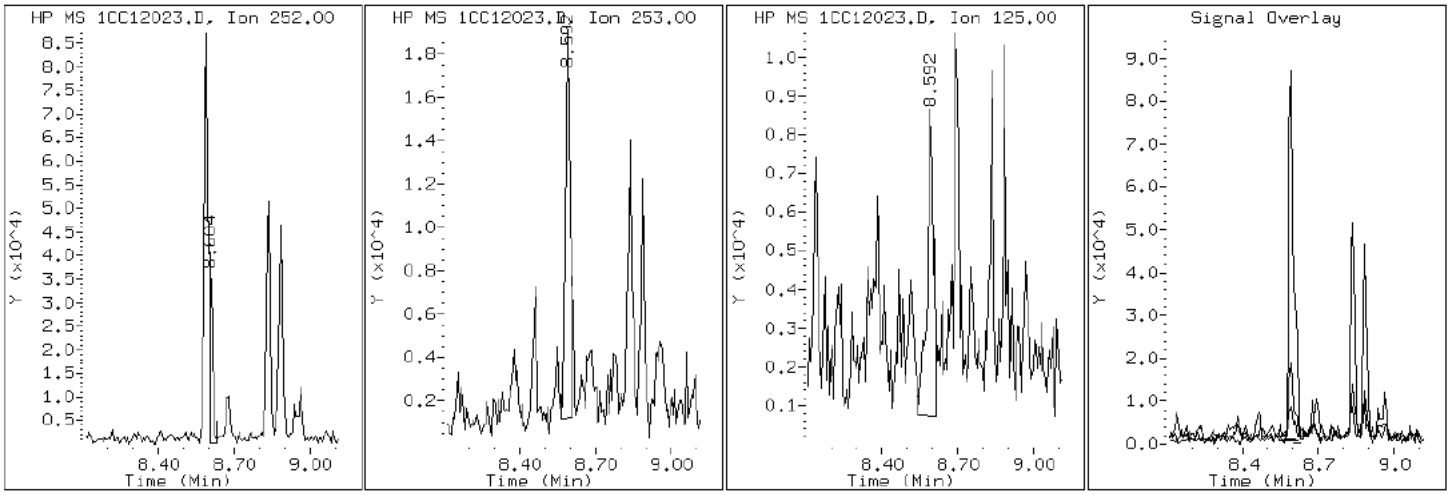
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



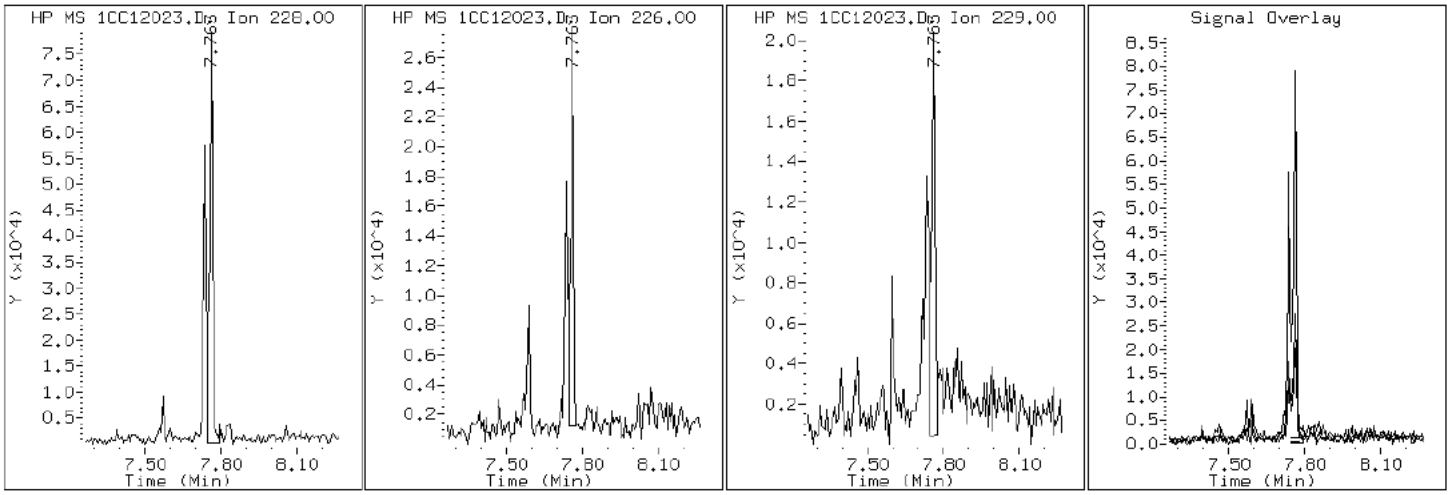
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

19 Chrysene



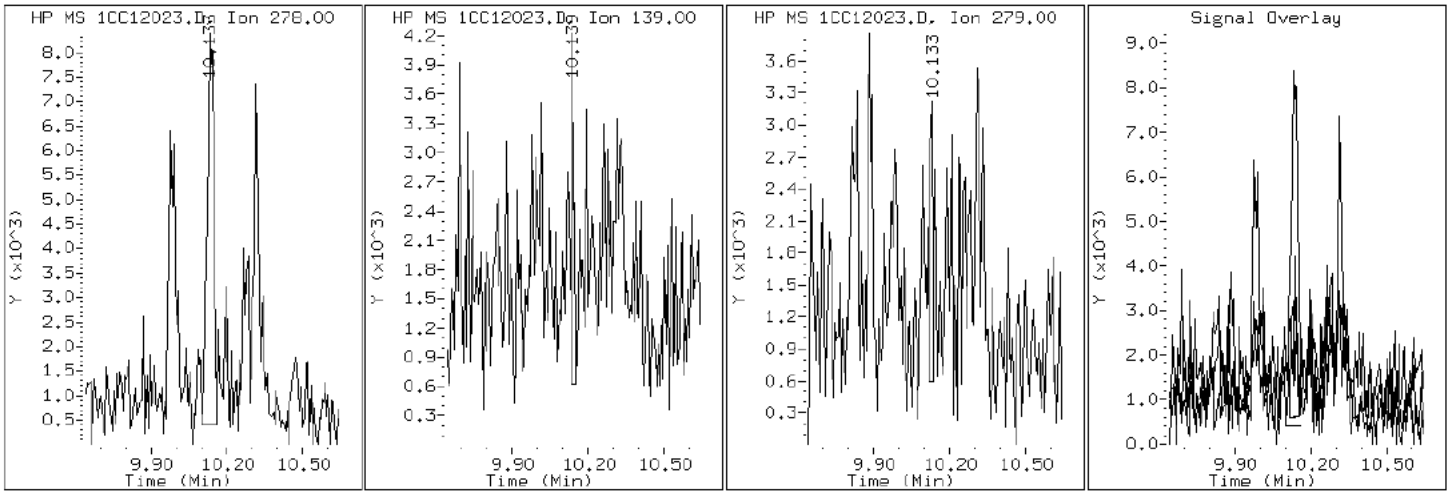
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



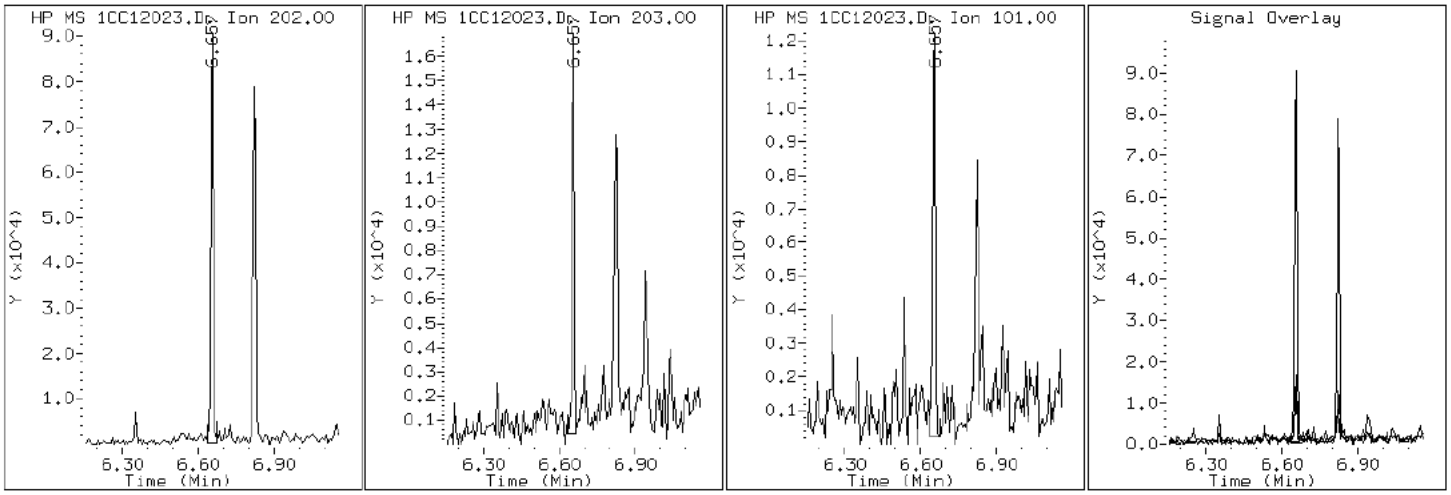
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

15 Fluoranthene



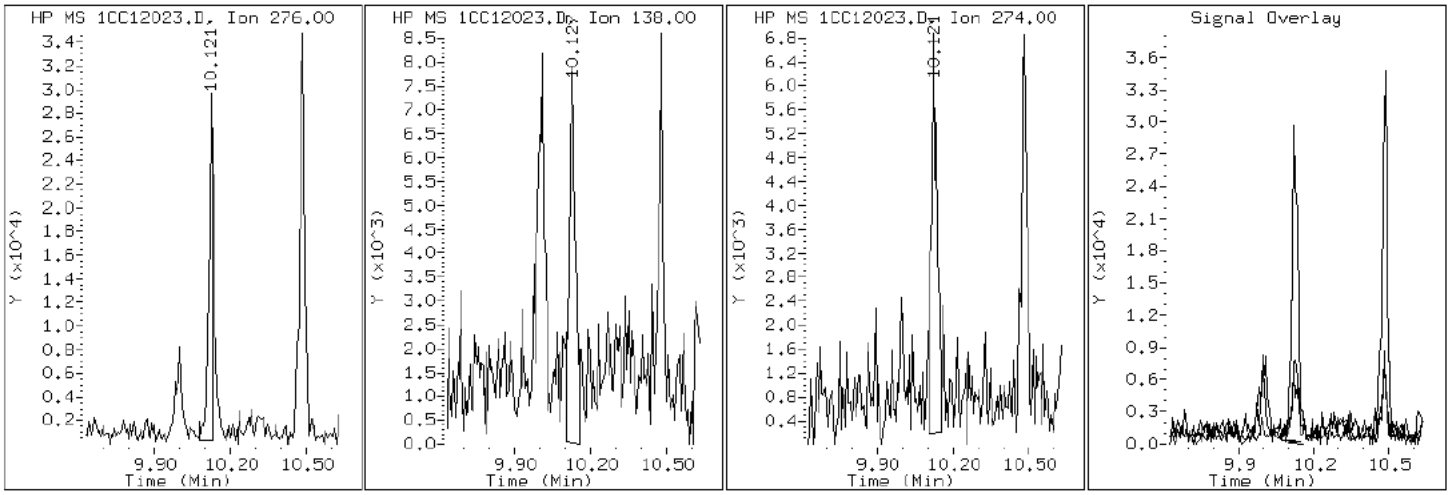
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

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



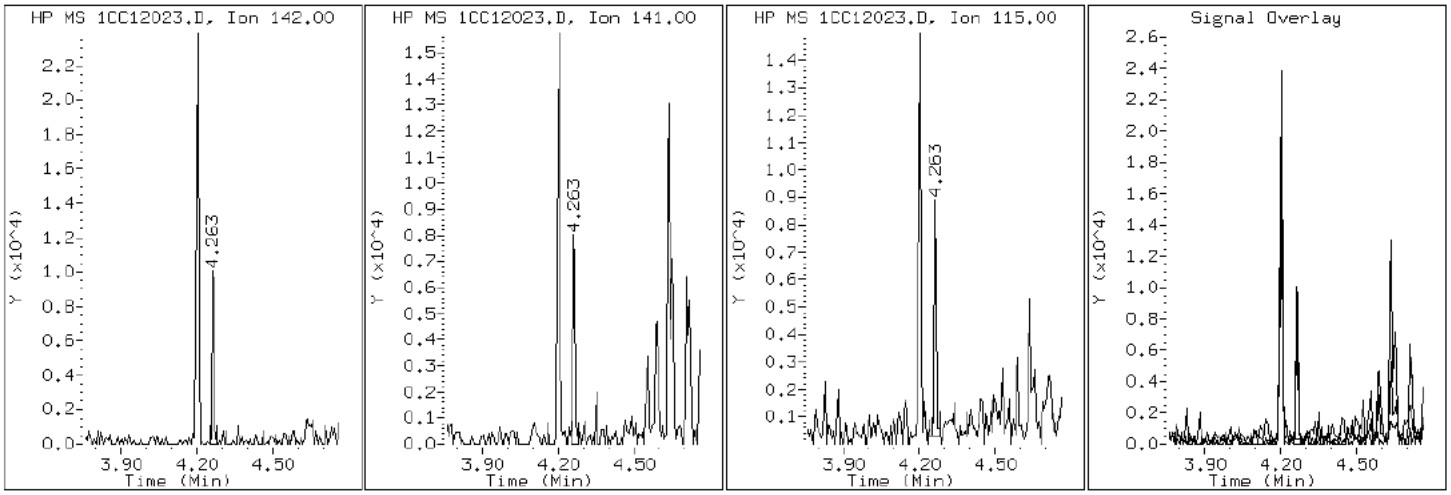
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

4 1-Methylnaphthalene



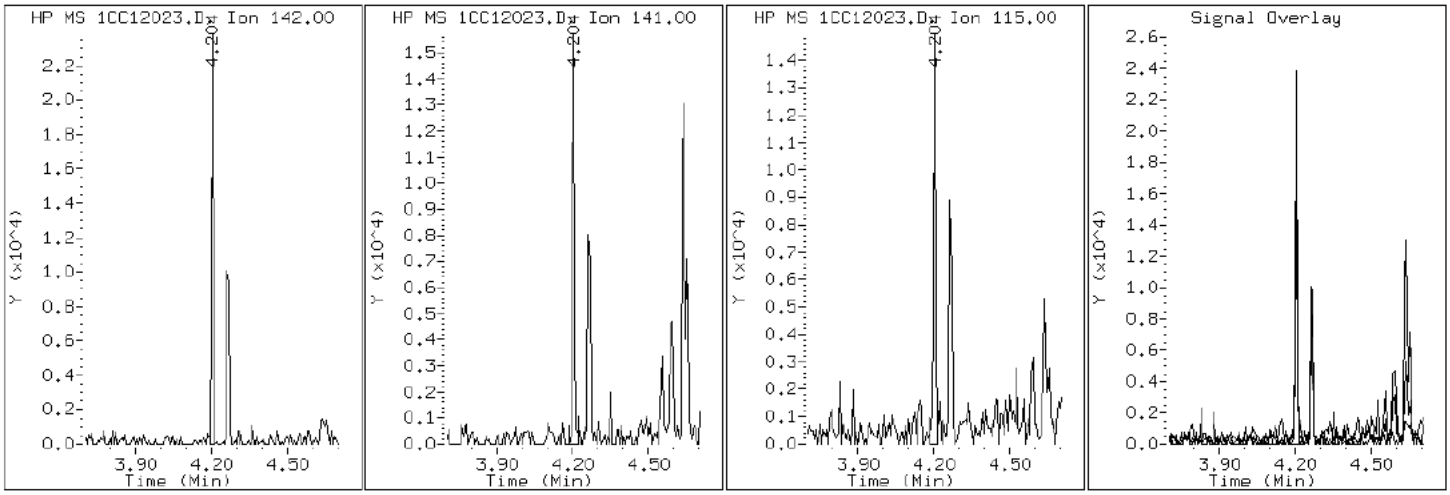
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

3 2-Methylnaphthalene



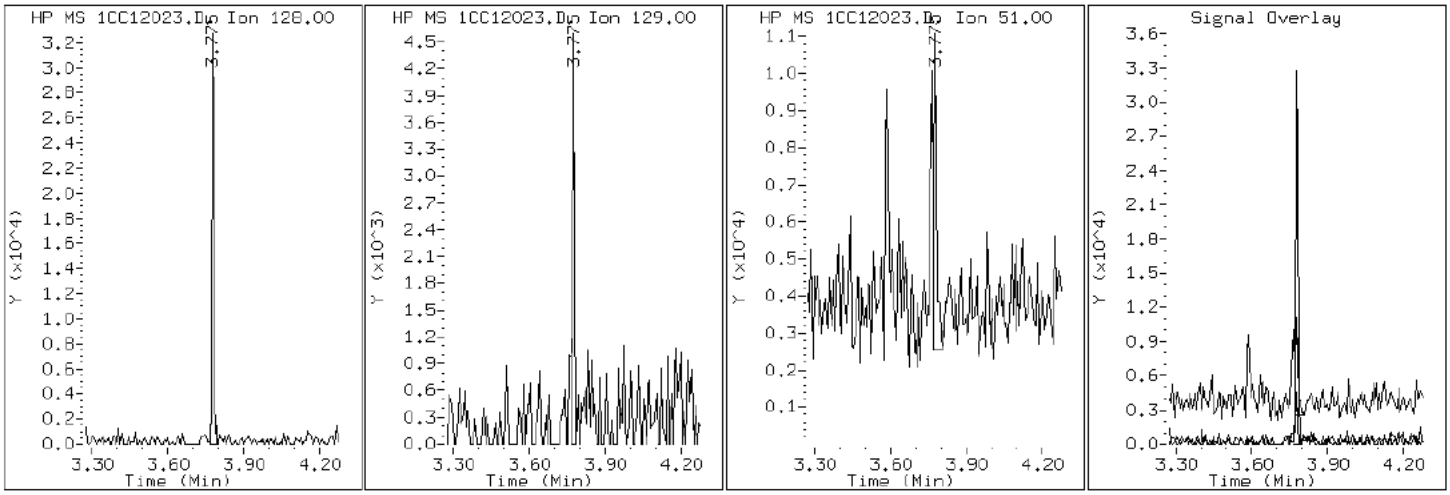
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

2 Naphthalene



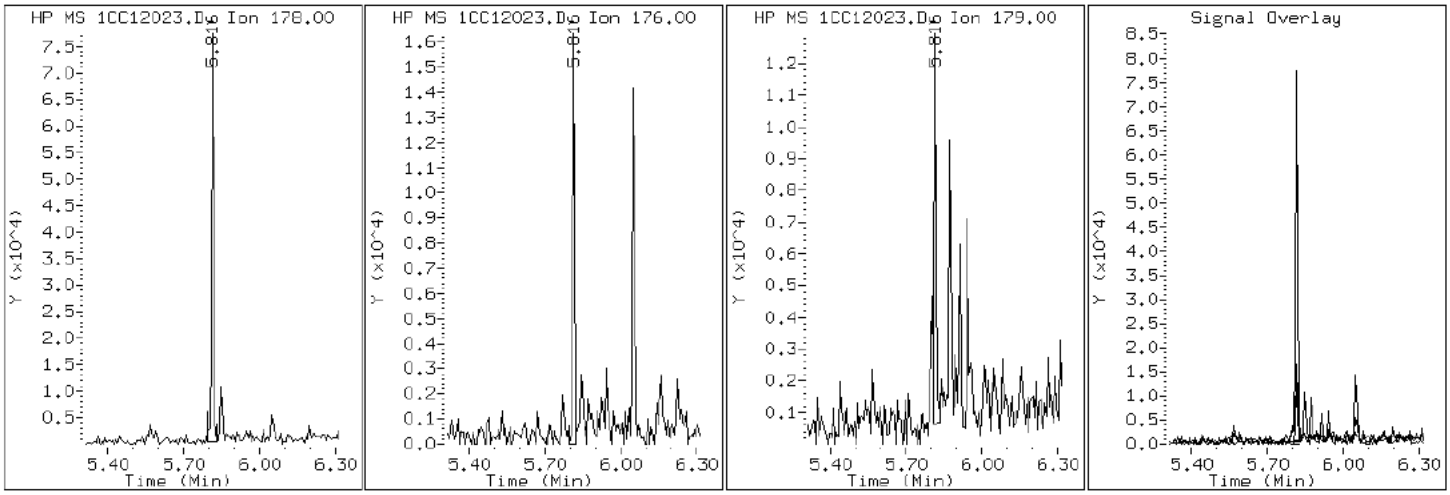
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

11 Phenanthrene



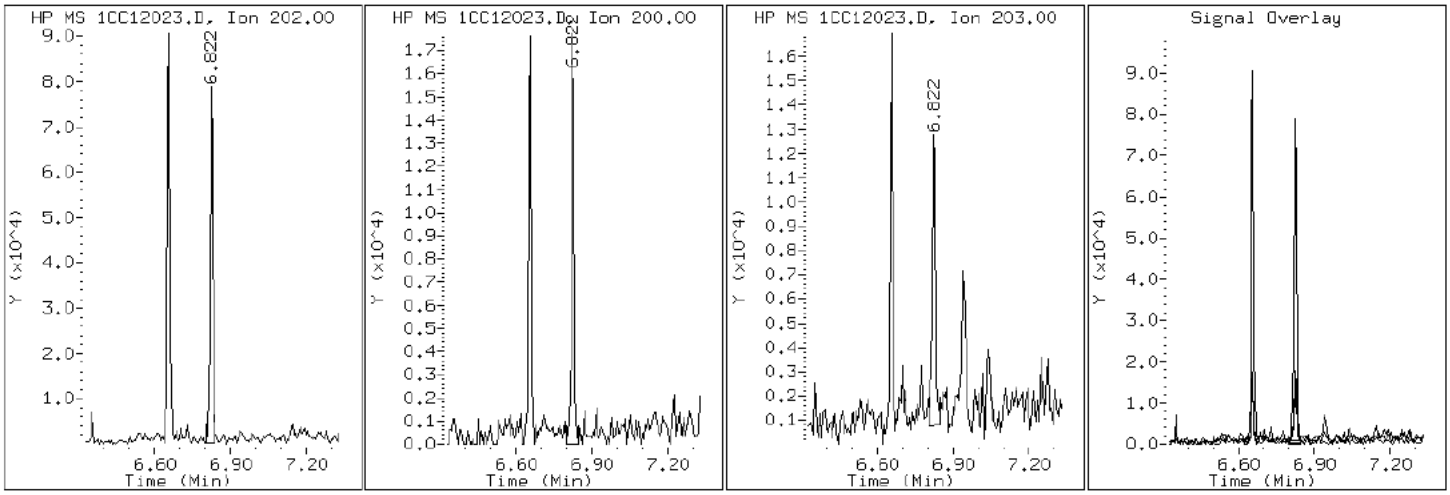
Data File: 1CC12023.D

Date: 12-MAR-2013 18:56

Client ID: HP0255A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12023.D
Inj. Date and Time: 12-MAR-2013 18:56
Instrument ID: BSMC5973.i
Client ID: HP0255A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

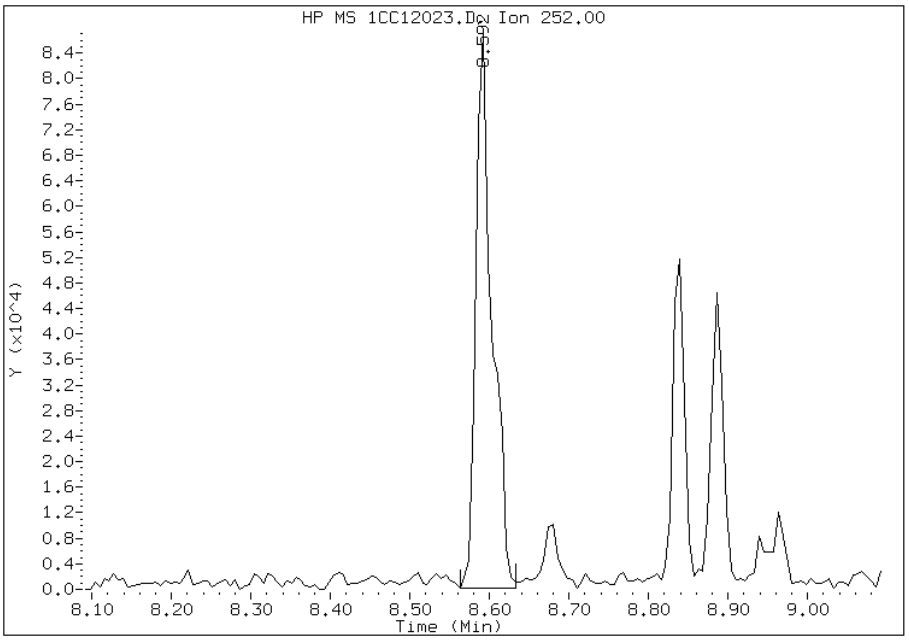
Processing Integration Results

RT: 8.59

Response: 122826

Amount: 2

Conc: 202



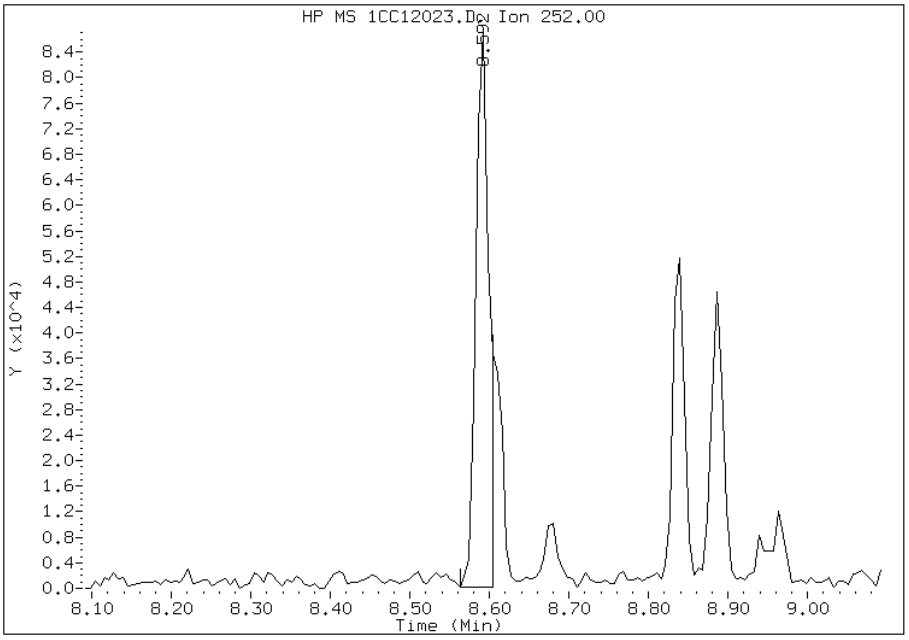
Manual Integration Results

RT: 8.59

Response: 99334

Amount: 2

Conc: 163



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12023.D
Inj. Date and Time: 12-MAR-2013 18:56
Instrument ID: BSMC5973.i
Client ID: HP0255A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

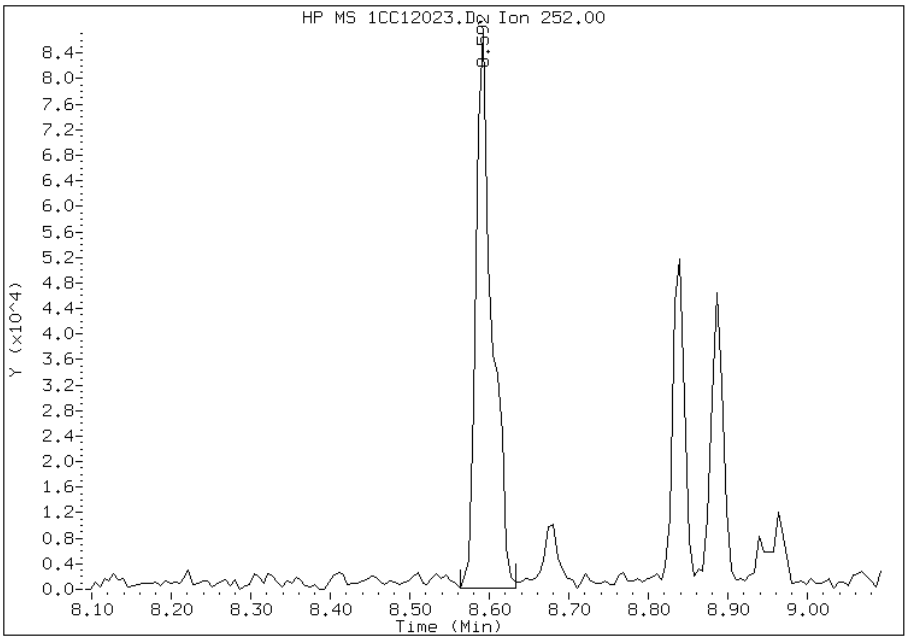
Processing Integration Results

RT: 8.59

Response: 122826

Amount: 2

Conc: 197



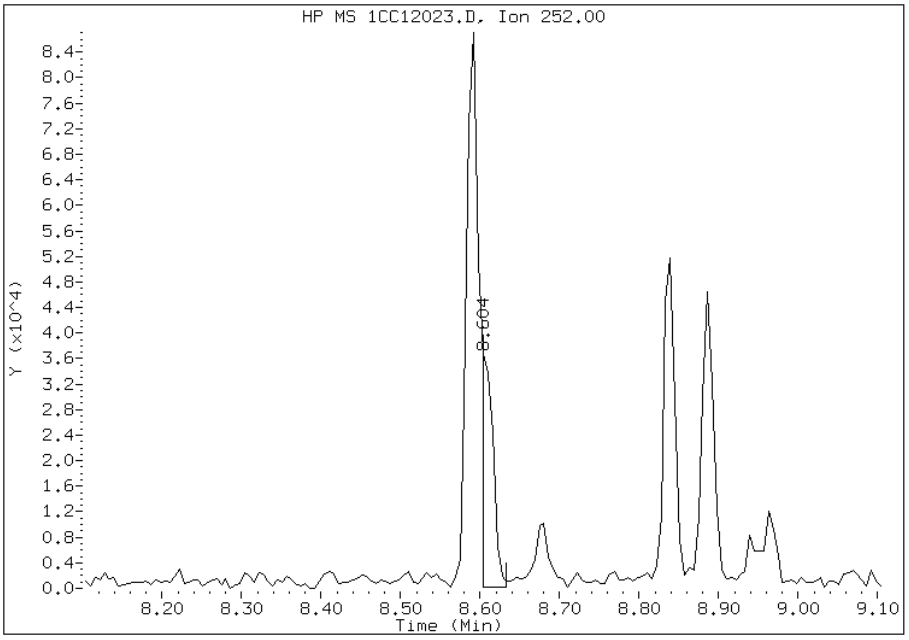
Manual Integration Results

RT: 8.60

Response: 36334

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12023.D
Inj. Date and Time: 12-MAR-2013 18:56
Instrument ID: BSMC5973.i
Client ID: HP0255A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

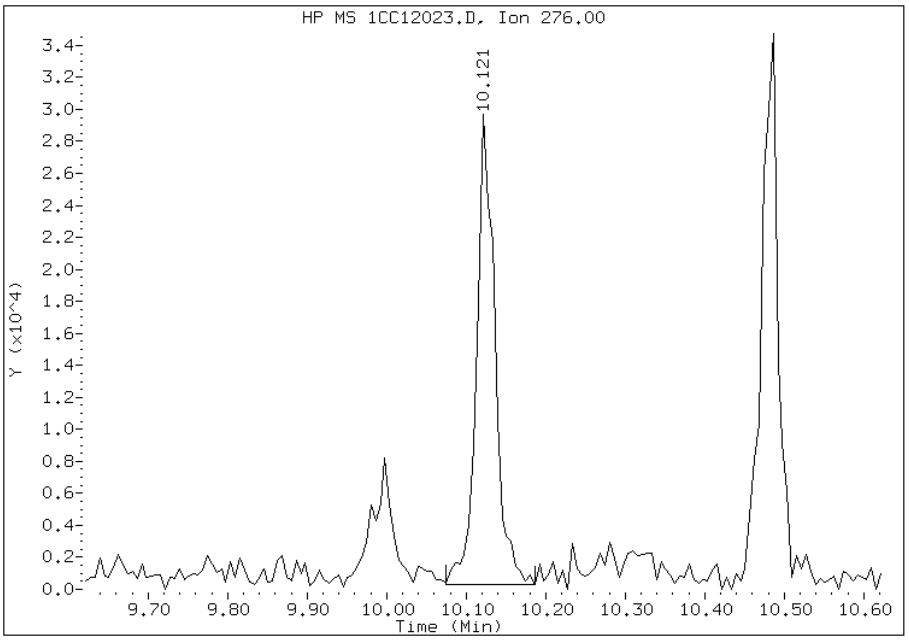
Processing Integration Results

RT: 10.12

Response: 46936

Amount: 1

Conc: 84



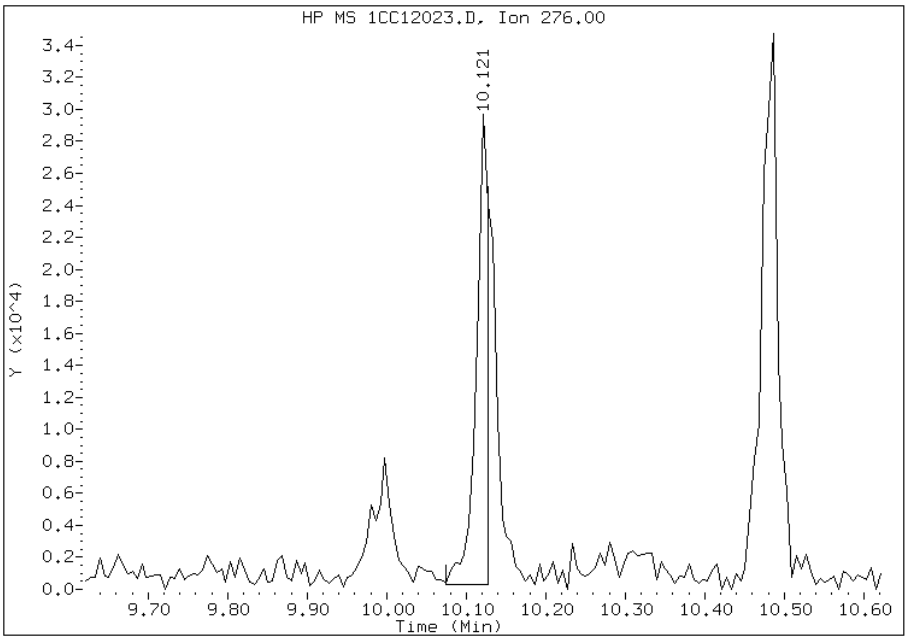
Manual Integration Results

RT: 10.12

Response: 31244

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0281A-CS | Lab Sample ID: 680-88067-12

Matrix: Solid | Lab File ID: 1CC12024.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 09:10

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

Sample wt/vol: 15.11(g) | Date Analyzed: 03/12/2013 19:15

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

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

% Moisture: 16.7 | 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	24
208-96-8	Acenaphthylene	31	J	48	6.0
120-12-7	Anthracene	32		10	5.0
56-55-3	Benzo[a]anthracene	220		9.5	4.6
50-32-8	Benzo[a]pyrene	250		12	6.2
205-99-2	Benzo[b]fluoranthene	450		15	7.3
191-24-2	Benzo[g,h,i]perylene	200		24	5.2
207-08-9	Benzo[k]fluoranthene	130		9.5	4.3
218-01-9	Chrysene	290		11	5.4
53-70-3	Dibenz(a,h)anthracene	53		24	4.9
206-44-0	Fluoranthene	360		24	4.8
86-73-7	Fluorene	21	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	150		24	8.5
90-12-0	1-Methylnaphthalene	62		48	5.2
91-57-6	2-Methylnaphthalene	91		48	8.5
91-20-3	Naphthalene	71		48	5.2
85-01-8	Phenanthrene	240		9.5	4.6
129-00-0	Pyrene	370		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12024.D
Lab Smp Id: 680-88067-A-12-A Client Smp ID: CV0281A-CS
Inj Date : 12-MAR-2013 19:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-12-a
Misc Info : 680-88067-A-12-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: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	16.667	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1348024	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1073825	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1929875	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	208851	7.16769	569.2410
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2053506	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	1902828	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	31347	0.89323	70.9378
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	26775	1.14377	90.8358
	4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	16543	0.77593	61.6222
	5 Acenaphthylene	152	4.763	4.763	(0.982)	16964	0.39184	31.1189
	9 Fluorene	166	5.192	5.192	(1.070)	8925	0.26226	20.8277
	11 Phenanthrene	178	5.816	5.815	(1.002)	167524	3.00204	238.4145
	12 Anthracene	178	5.851	5.851	(1.008)	22304	0.40868	32.4565
	13 Carbazole	167	5.957	5.957	(1.026)	15791	0.32550	25.8500

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	277699	4.54413	360.8842
16 Pyrene	202	6.827	6.827	(0.882)	254209	4.60649	365.8360
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	163489	2.75846	219.0705
19 Chrysene	228	7.768	7.768	(1.003)	213209	3.59466	285.4794
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	284689	5.72493	454.6600(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	83668	1.64013	130.2548(QMH)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	151772	3.14214	249.5410
24 Indeno(1,2,3-cd)pyrene	276	10.127	10.127	(1.132)	87801	1.93230	153.4584(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	29685	0.66790	53.0428
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	117479	2.47154	196.2840

QC Flag Legend

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

Data File: 1CC12024.D

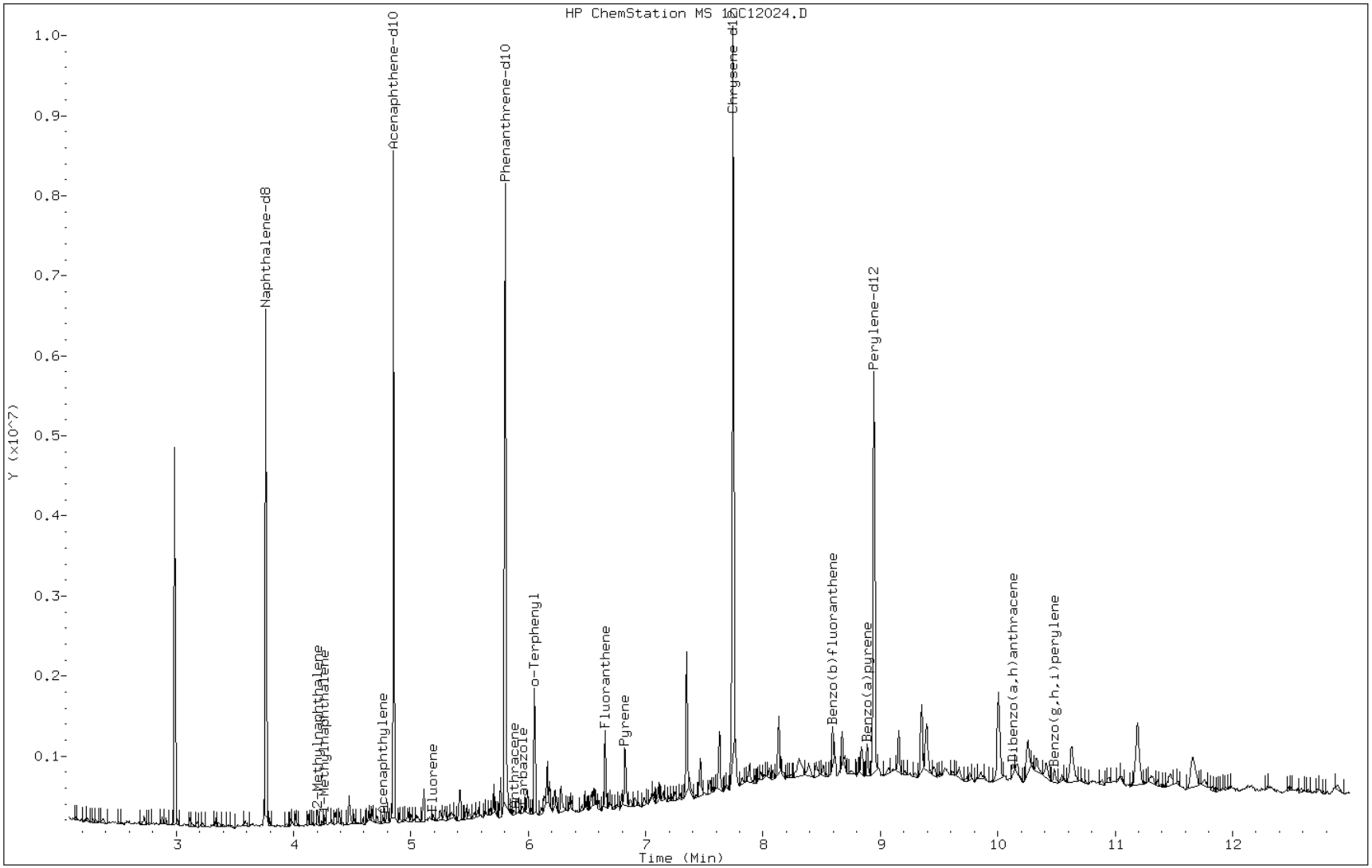
Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS

Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a

Operator: SCC



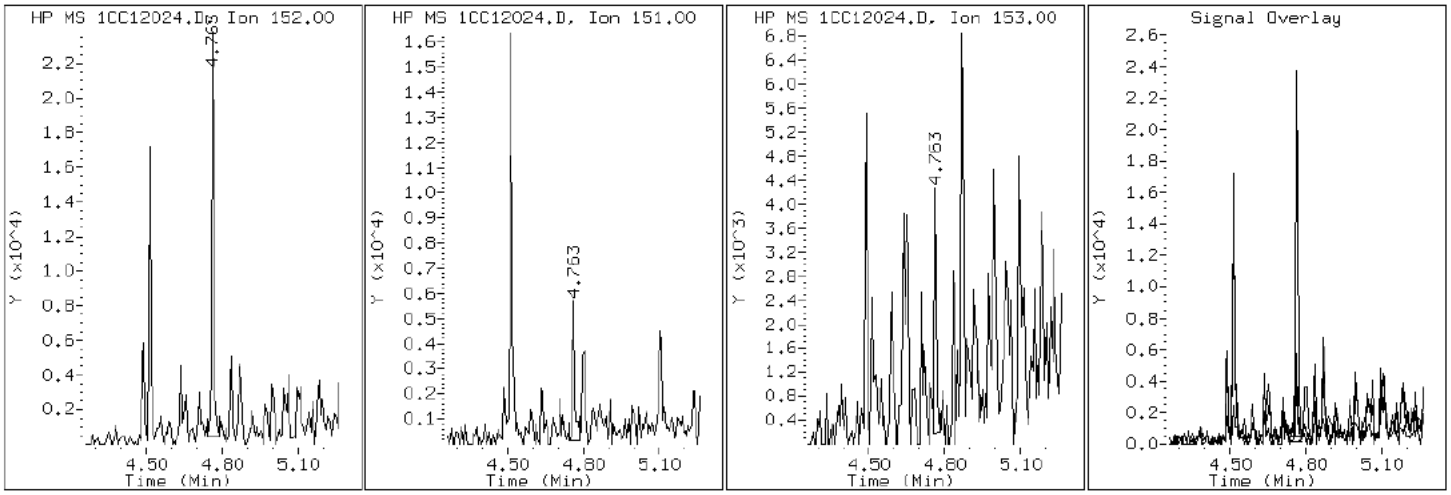
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

5 Acenaphthylene



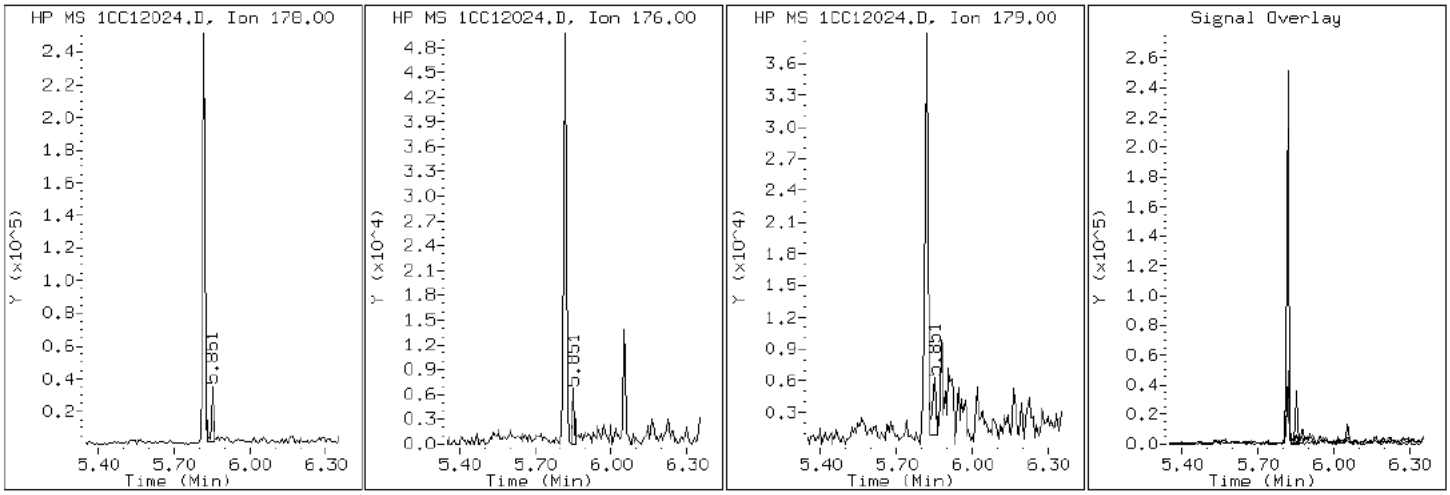
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

12 Anthracene



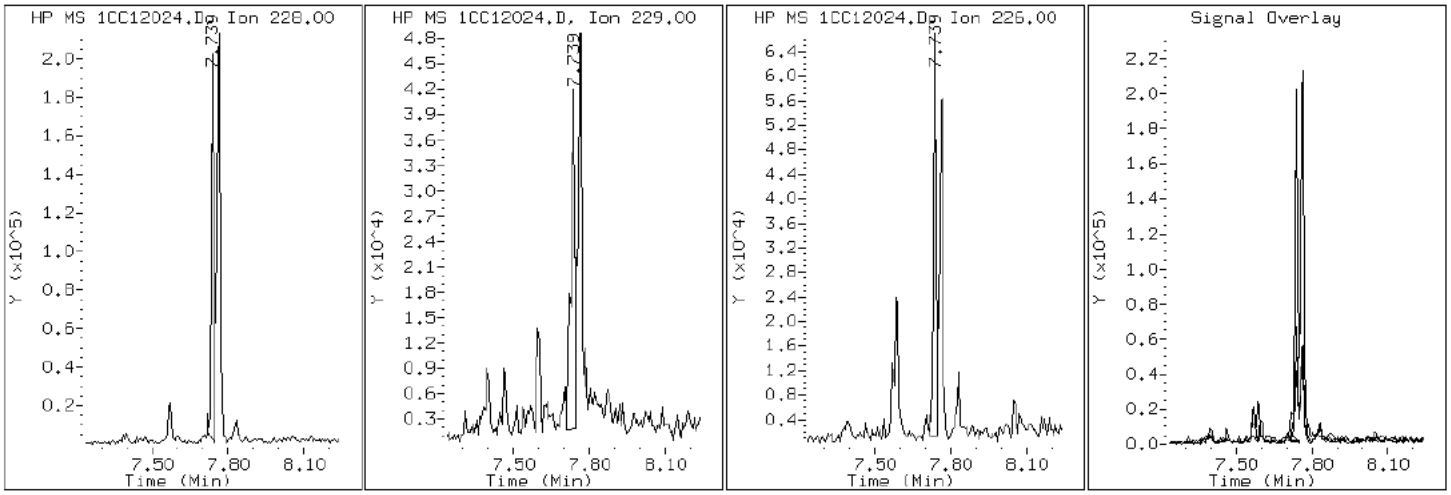
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

17 Benzo(a)anthracene



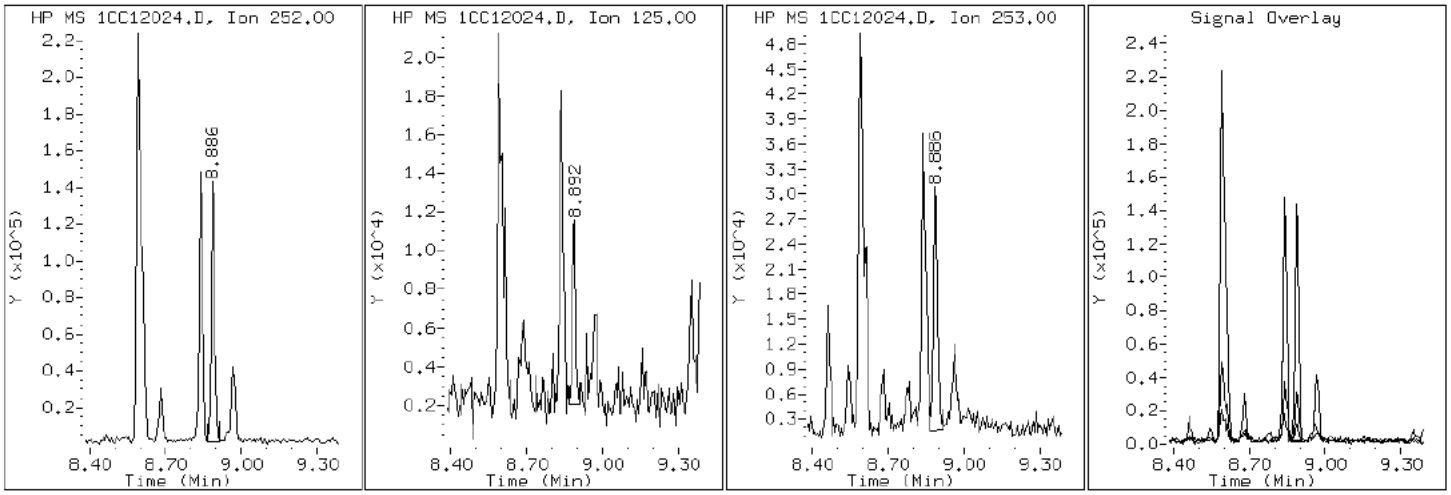
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

22 Benzo(a)pyrene



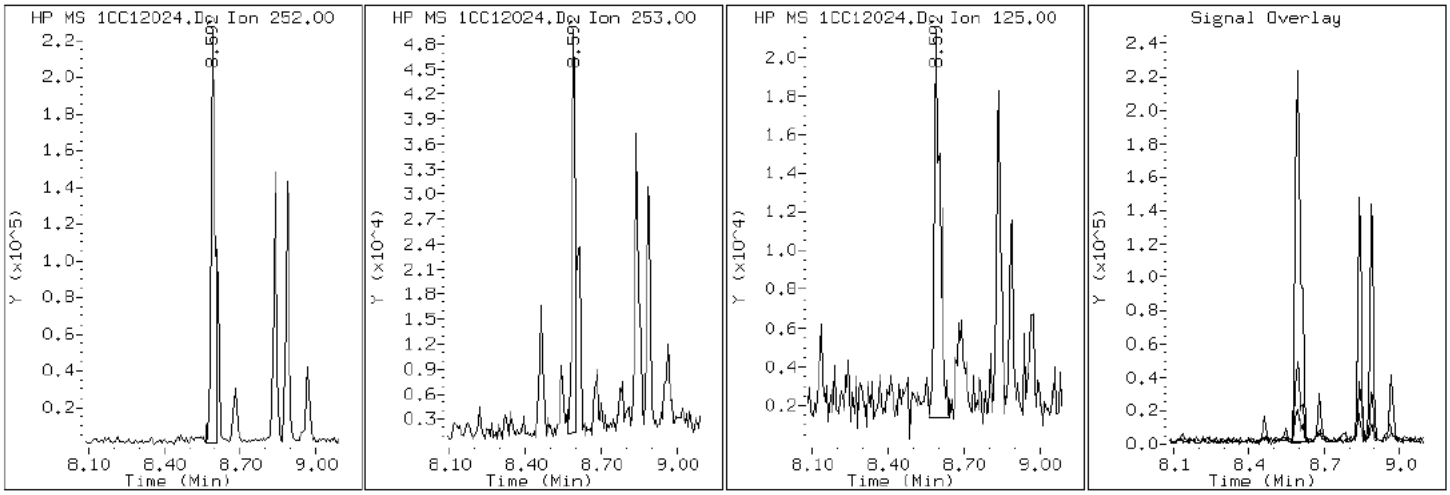
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



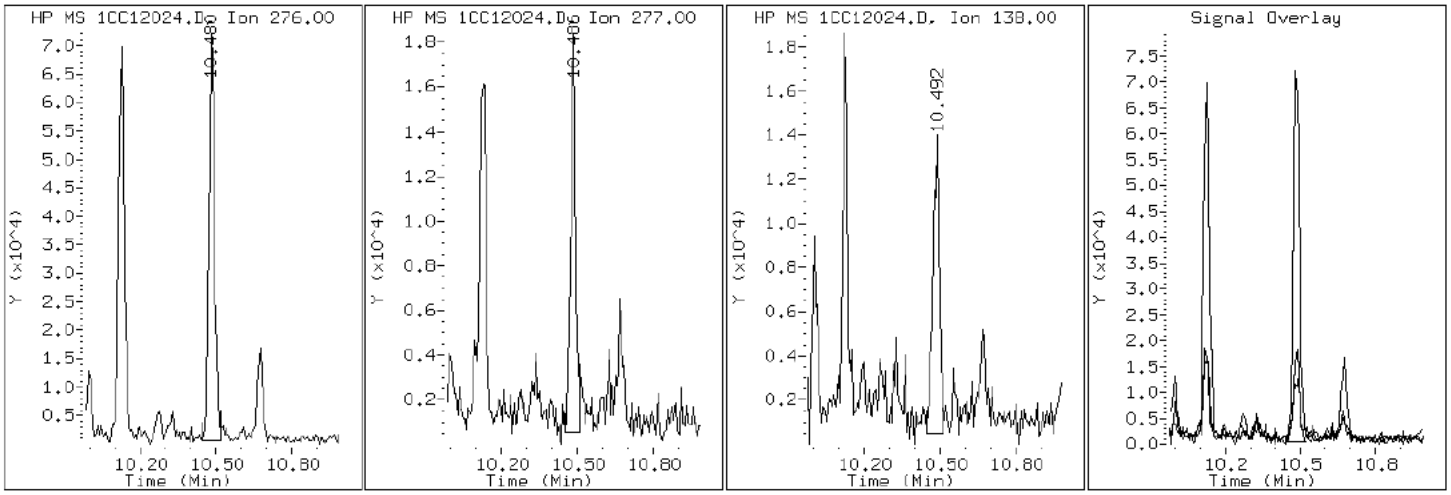
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



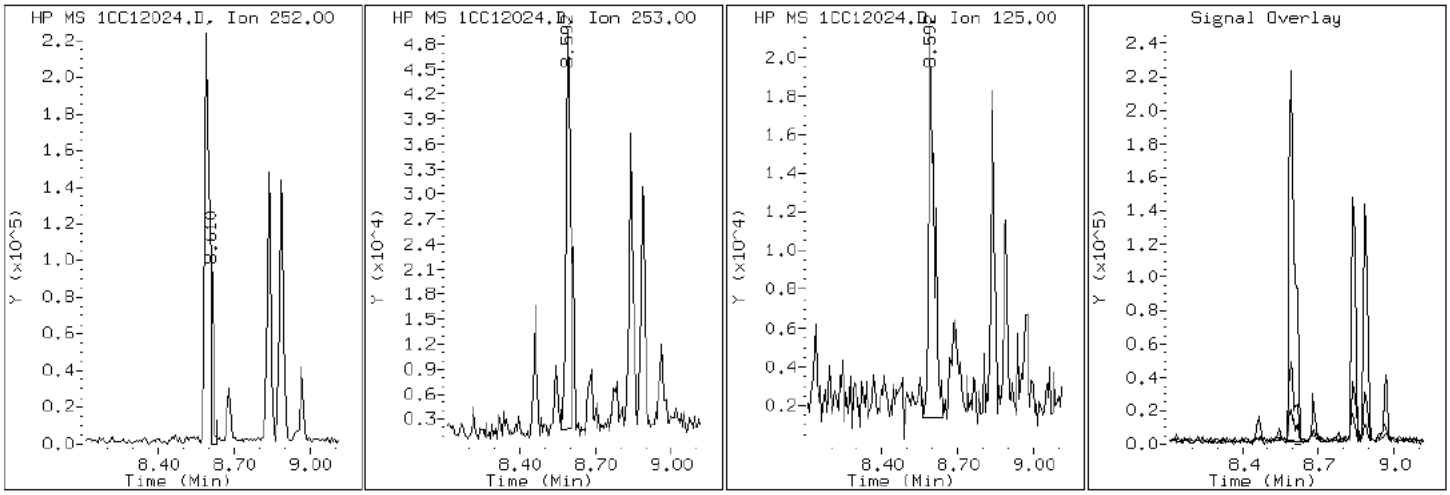
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



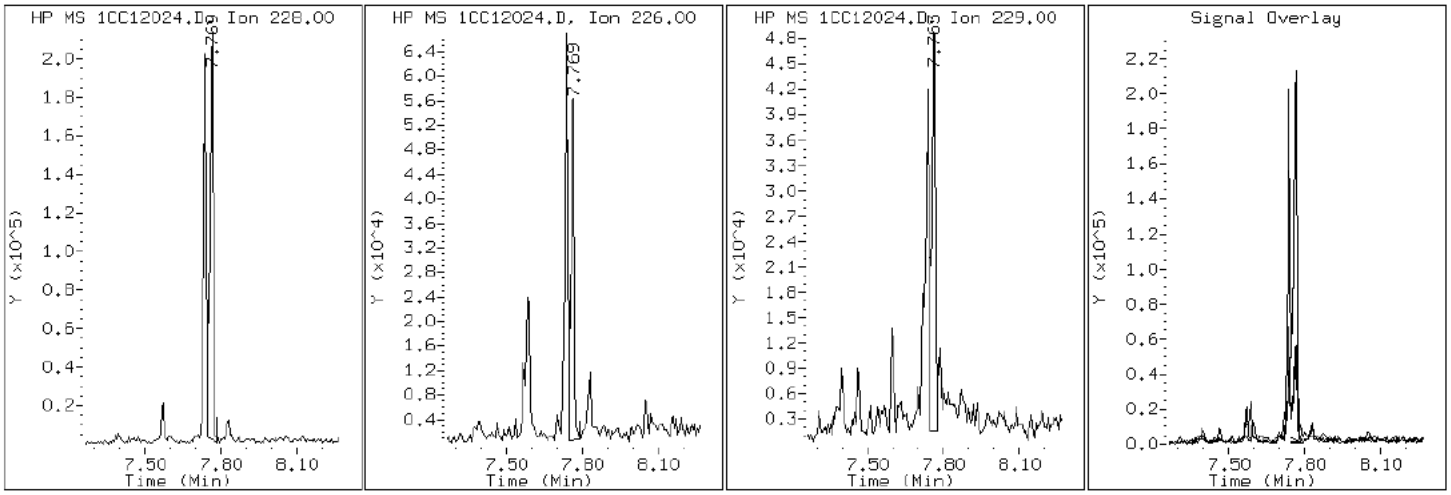
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

19 Chrysene



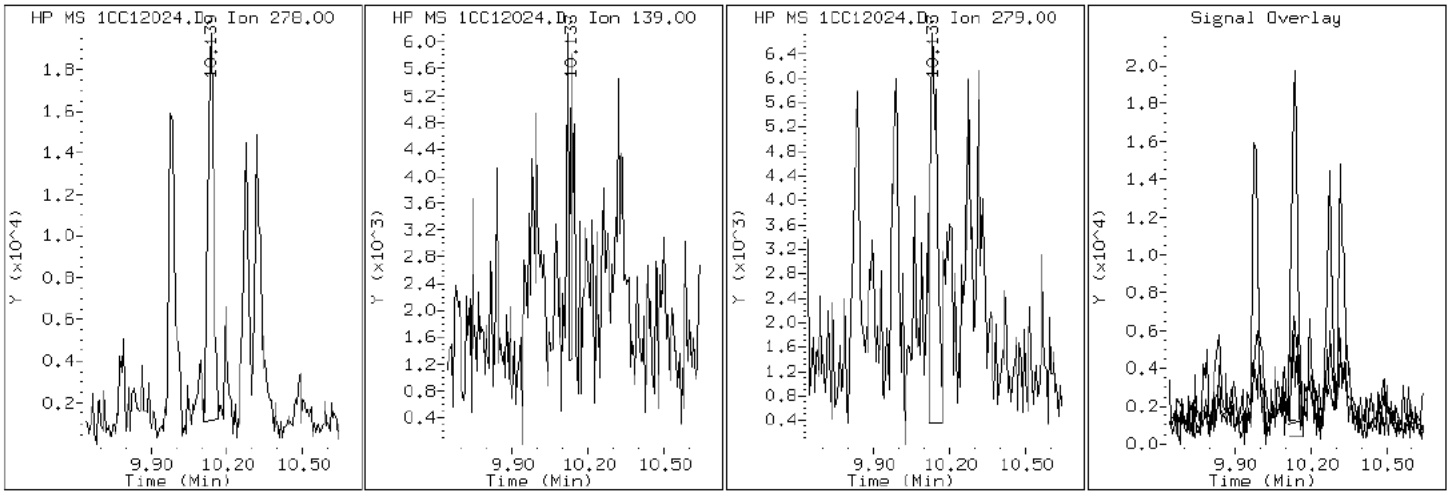
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



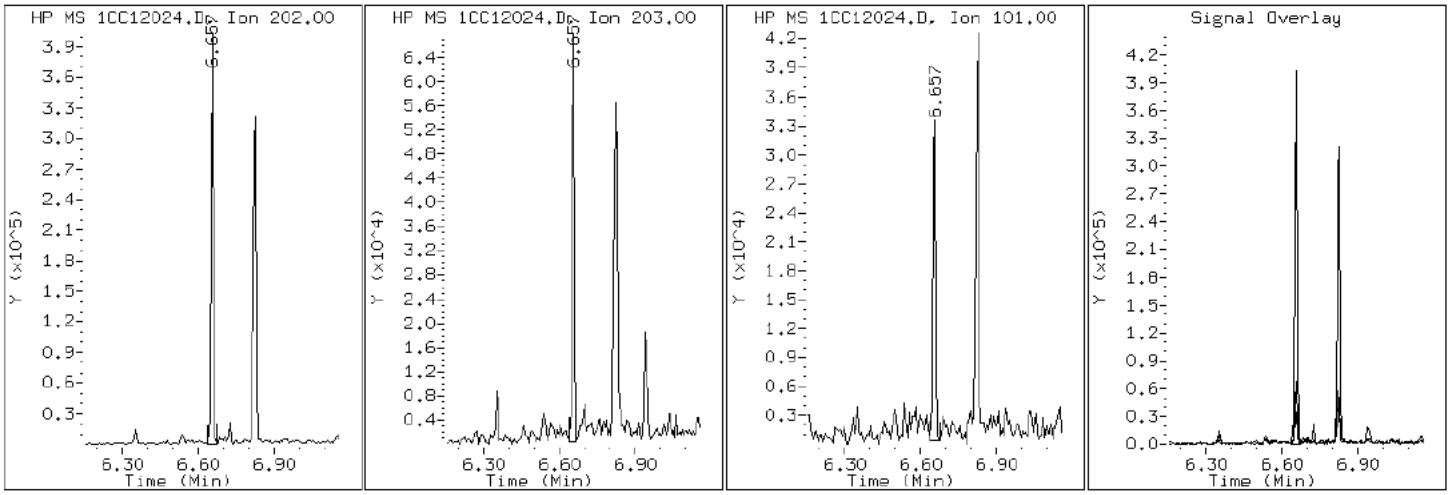
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

15 Fluoranthene



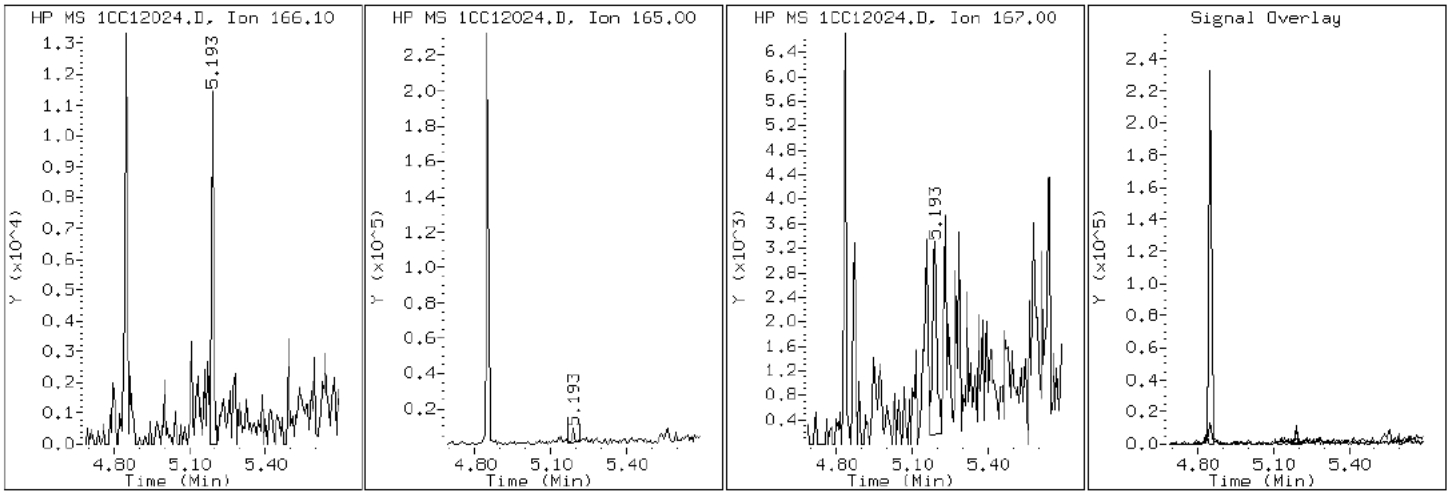
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

9 Fluorene



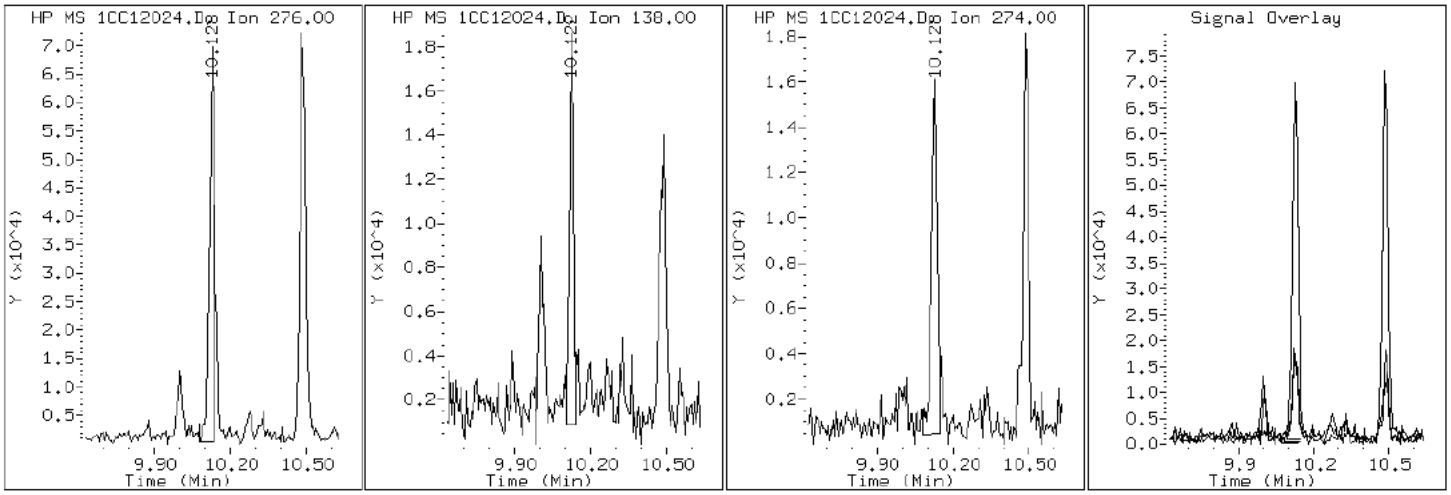
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

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



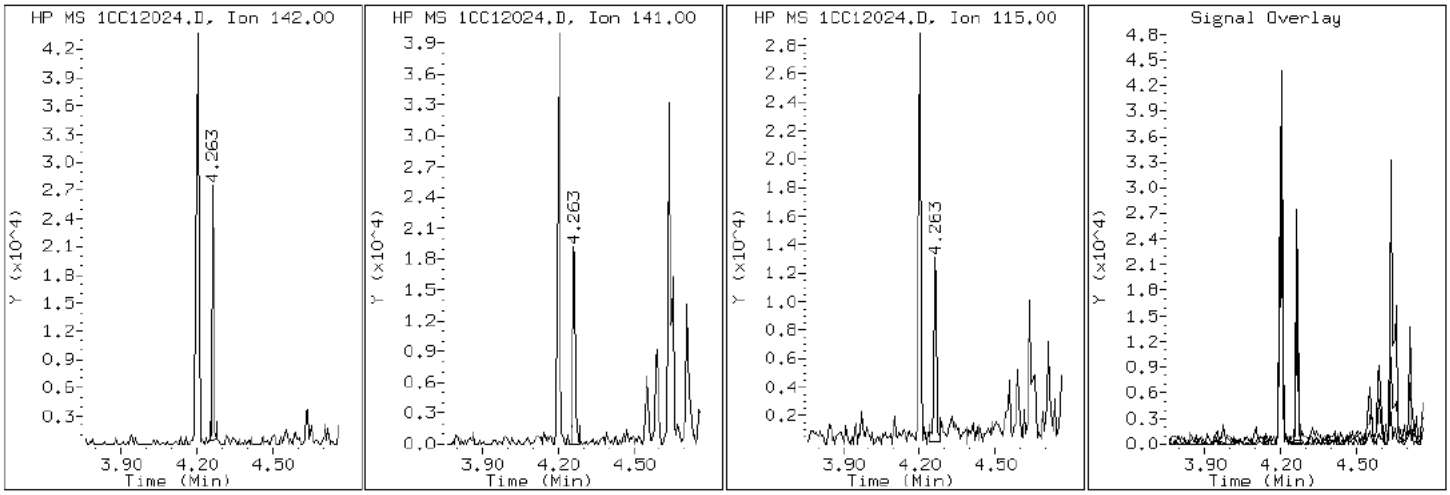
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

4 1-Methylnaphthalene



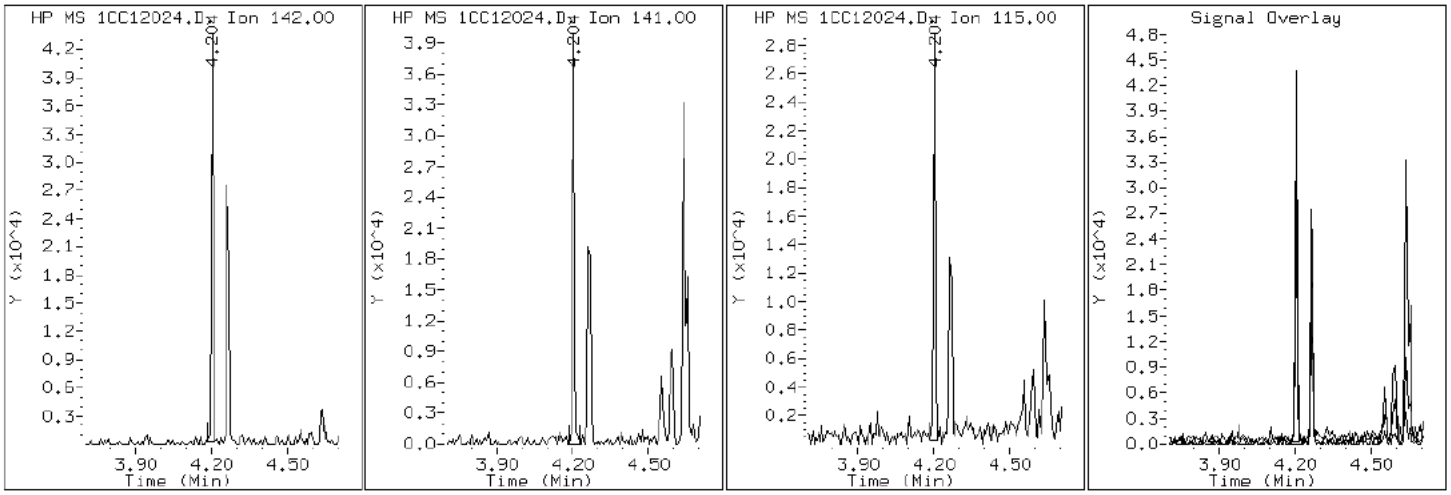
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

3 2-Methylnaphthalene



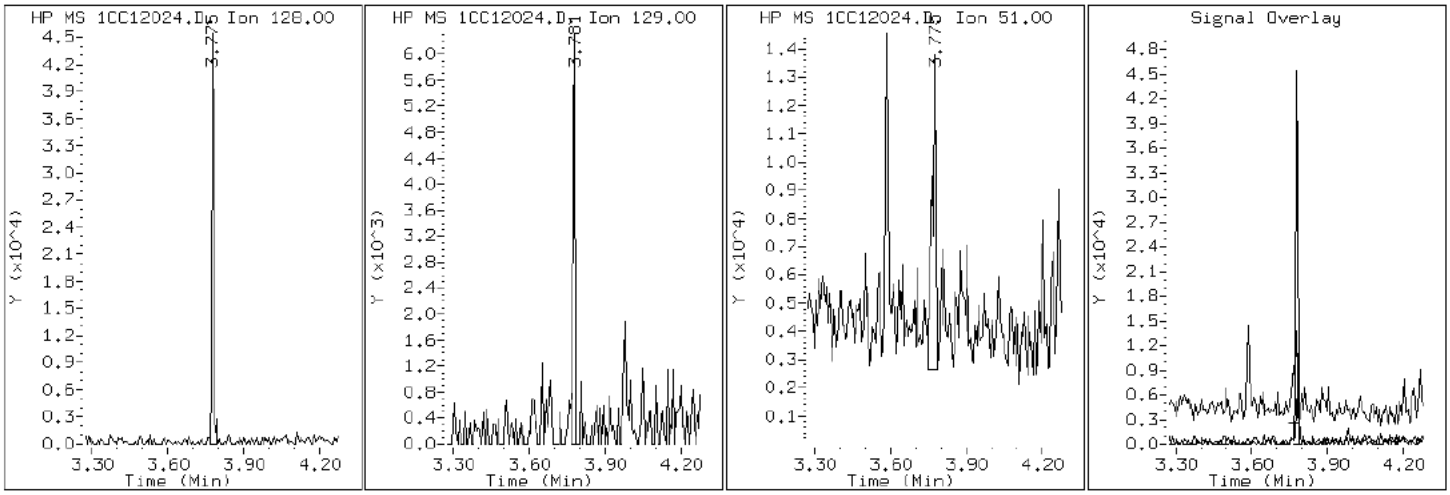
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

2 Naphthalene



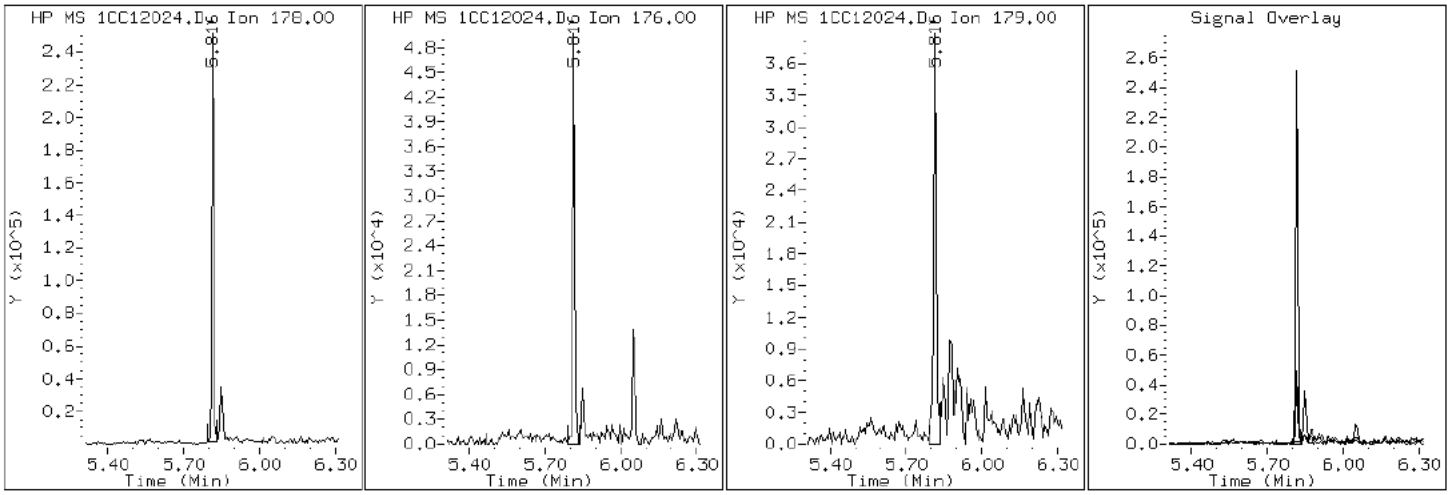
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

11 Phenanthrene



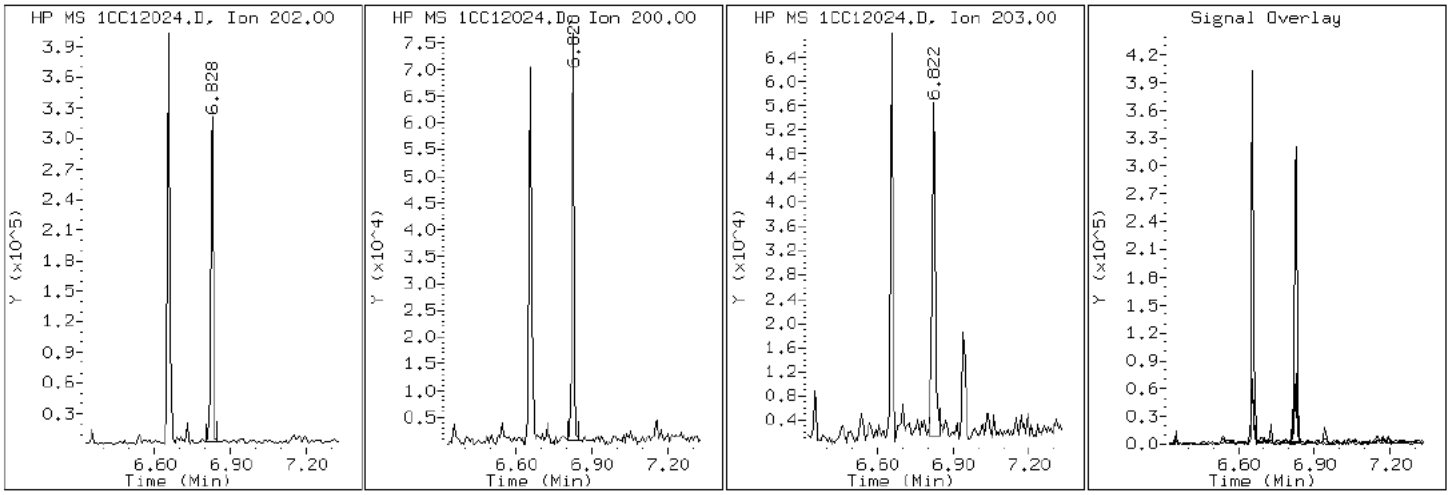
Data File: 1CC12024.D

Date: 12-MAR-2013 19:15

Client ID: CV0281A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12024.D
Inj. Date and Time: 12-MAR-2013 19:15
Instrument ID: BSMC5973.i
Client ID: CV0281A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

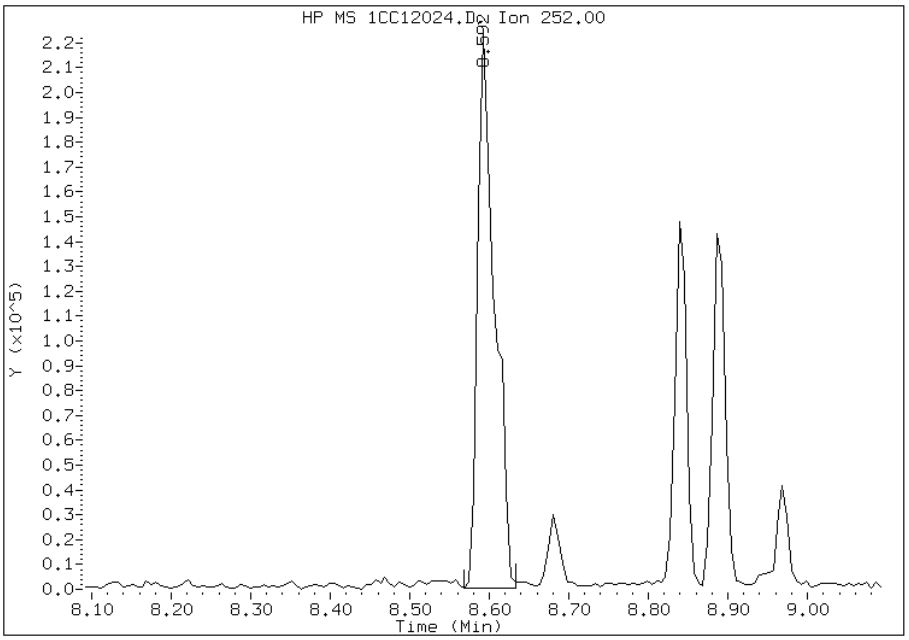
Processing Integration Results

RT: 8.59

Response: 333177

Amount: 7

Conc: 532



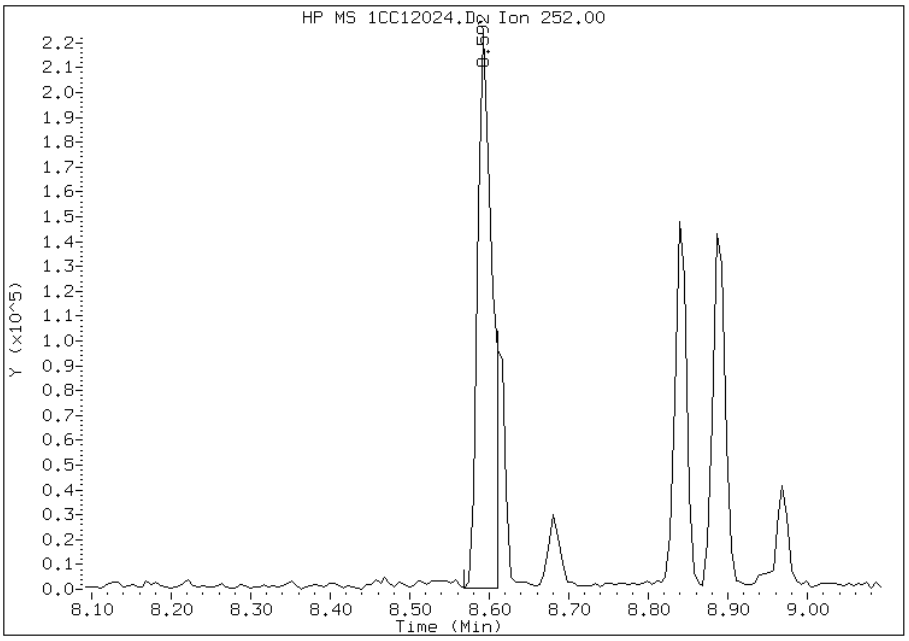
Manual Integration Results

RT: 8.59

Response: 284689

Amount: 6

Conc: 455



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12024.D
Inj. Date and Time: 12-MAR-2013 19:15
Instrument ID: BSMC5973.i
Client ID: CV0281A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

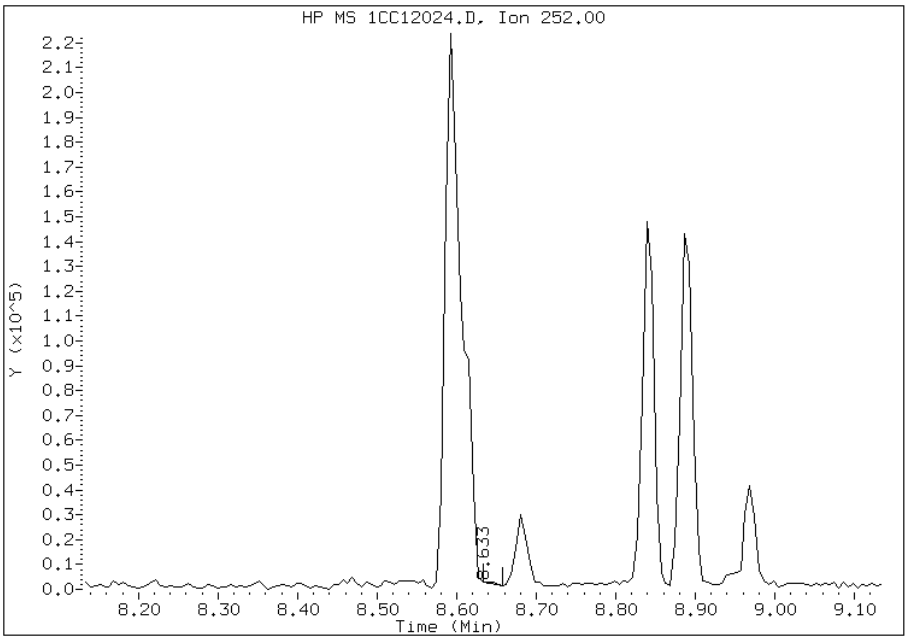
Processing Integration Results

RT: 8.63

Response: 359

Amount: 0

Conc: 1



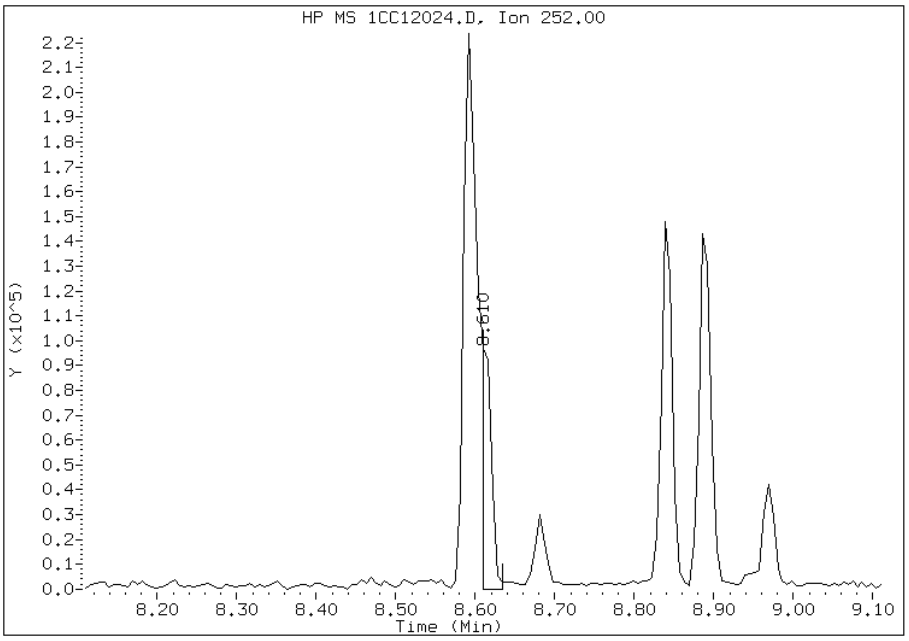
Manual Integration Results

RT: 8.61

Response: 83668

Amount: 2

Conc: 130



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12024.D
Inj. Date and Time: 12-MAR-2013 19:15
Instrument ID: BSMC5973.i
Client ID: CV0281A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

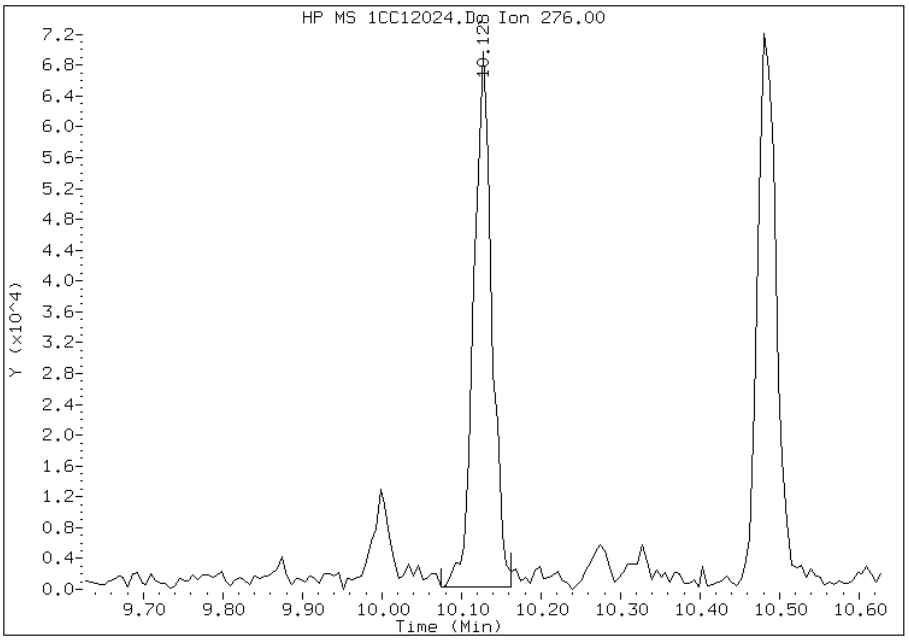
Processing Integration Results

RT: 10.13

Response: 109230

Amount: 2

Conc: 191



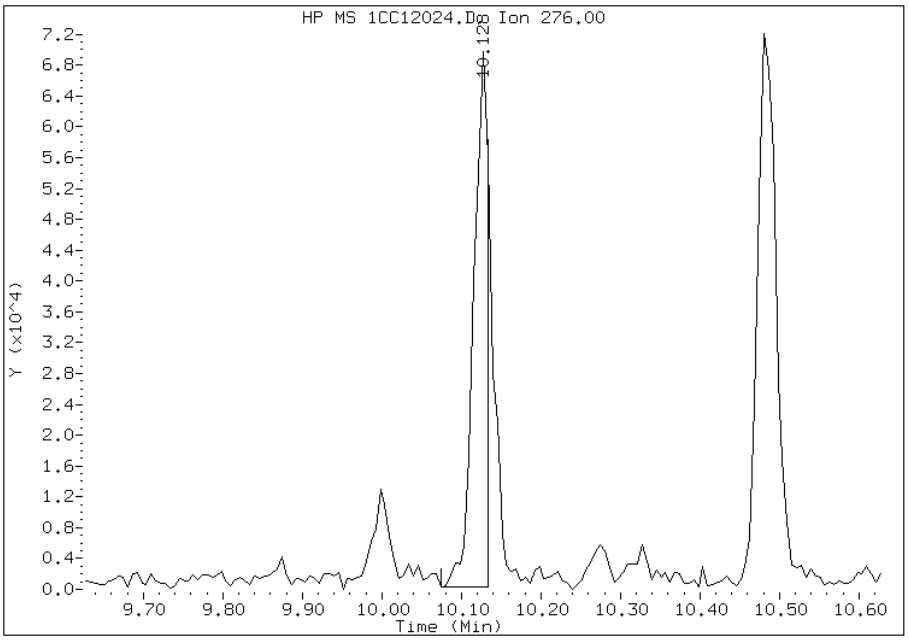
Manual Integration Results

RT: 10.13

Response: 87801

Amount: 2

Conc: 153



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0281B-CS | Lab Sample ID: 680-88067-13

Matrix: Solid | Lab File ID: 1CC12025.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 09:20

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

Sample wt/vol: 15.28(g) | Date Analyzed: 03/12/2013 19:33

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

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

% Moisture: 16.9 | 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	24
208-96-8	Acenaphthylene	7.1	J	47	5.9
120-12-7	Anthracene	12		9.9	5.0
56-55-3	Benzo[a]anthracene	130		9.5	4.6
50-32-8	Benzo[a]pyrene	160		12	6.1
205-99-2	Benzo[b]fluoranthene	240		14	7.2
191-24-2	Benzo[g,h,i]perylene	130		24	5.2
207-08-9	Benzo[k]fluoranthene	98		9.5	4.3
218-01-9	Chrysene	150		11	5.3
53-70-3	Dibenz(a,h)anthracene	35		24	4.8
206-44-0	Fluoranthene	160		24	4.7
86-73-7	Fluorene	7.3	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	97		24	8.4
90-12-0	1-Methylnaphthalene	47		47	5.2
91-57-6	2-Methylnaphthalene	52		47	8.4
91-20-3	Naphthalene	53		47	5.2
85-01-8	Phenanthrene	91		9.5	4.6
129-00-0	Pyrene	170		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12025.D
Lab Smp Id: 680-88067-A-13-A Client Smp ID: CV0281B-CS
Inj Date : 12-MAR-2013 19:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-13-a
Misc Info : 680-88067-A-13-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: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	16.934	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1371337	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1098460	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	2025365	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	215742	7.05510	555.8465
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2093942	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	1947396	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	23882	0.66894	52.7036
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	15738	0.66087	52.0673
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	12806	0.59044	46.5184
5 Acenaphthylene	152	4.763	4.763	(0.982)	3993	0.09016	7.1036
9 Fluorene	166	5.192	5.192	(1.070)	3241	0.09310	7.3349
11 Phenanthrene	178	5.815	5.815	(1.002)	67600	1.15428	90.9416
12 Anthracene	178	5.851	5.851	(1.008)	9035	0.15775	12.4282
13 Carbazole	167	5.957	5.957	(1.026)	11524	0.22634	17.8326

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	127389	1.98625	156.4898
16 Pyrene	202	6.821	6.827	(0.881)	122734	2.18110	171.8408
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	96304	1.59351	125.5468
19 Chrysene	228	7.762	7.768	(1.002)	118147	1.95347	153.9068
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	155702	3.05942	241.0405(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	64648	1.23828	97.5594(MH)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	99370	2.01018	158.3746
24 Indeno(1,2,3-cd)pyrene	276	10.127	10.127	(1.132)	57469	1.23582	97.3654(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	20484	0.45033	35.4801
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	77288	1.58879	125.1747

QC Flag Legend

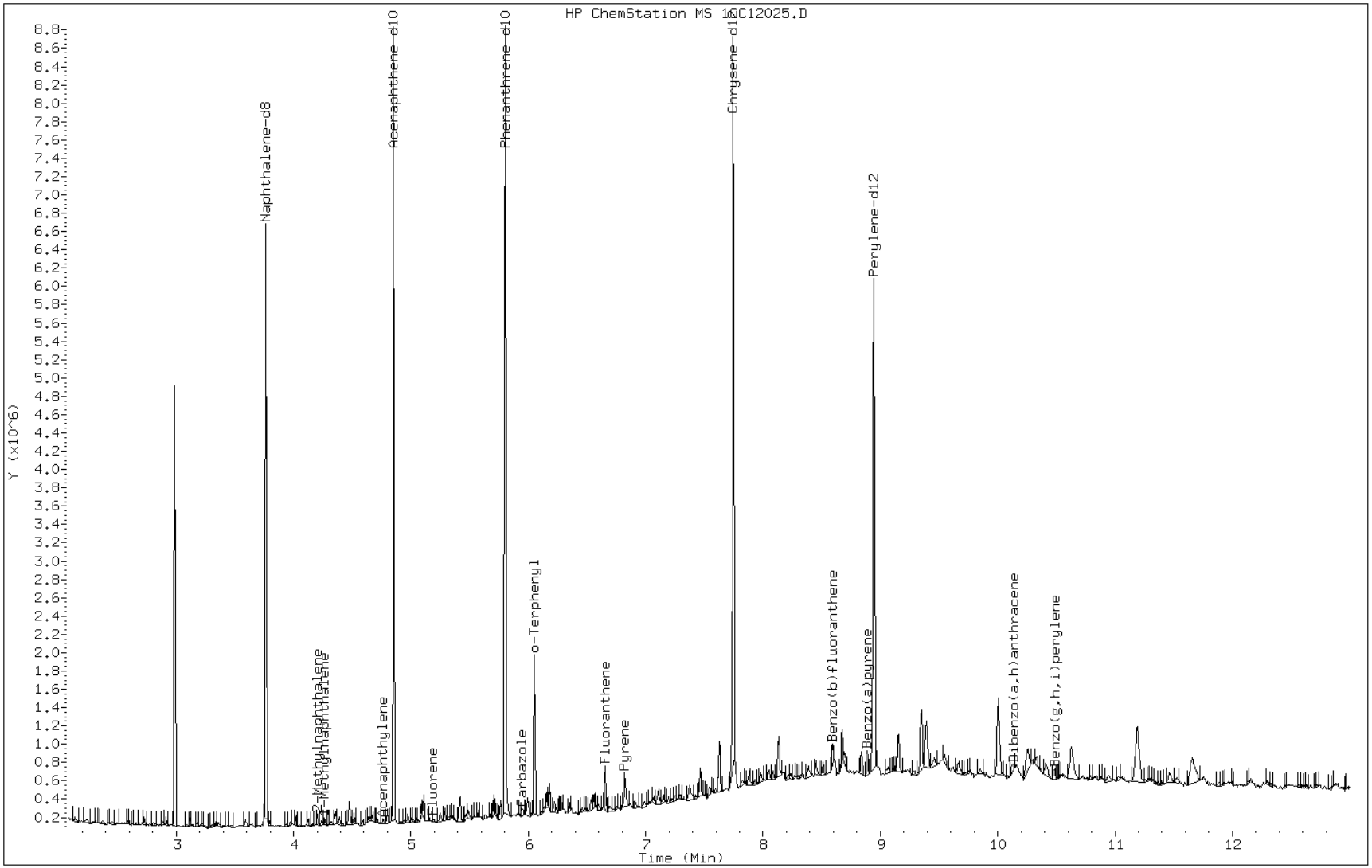
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC



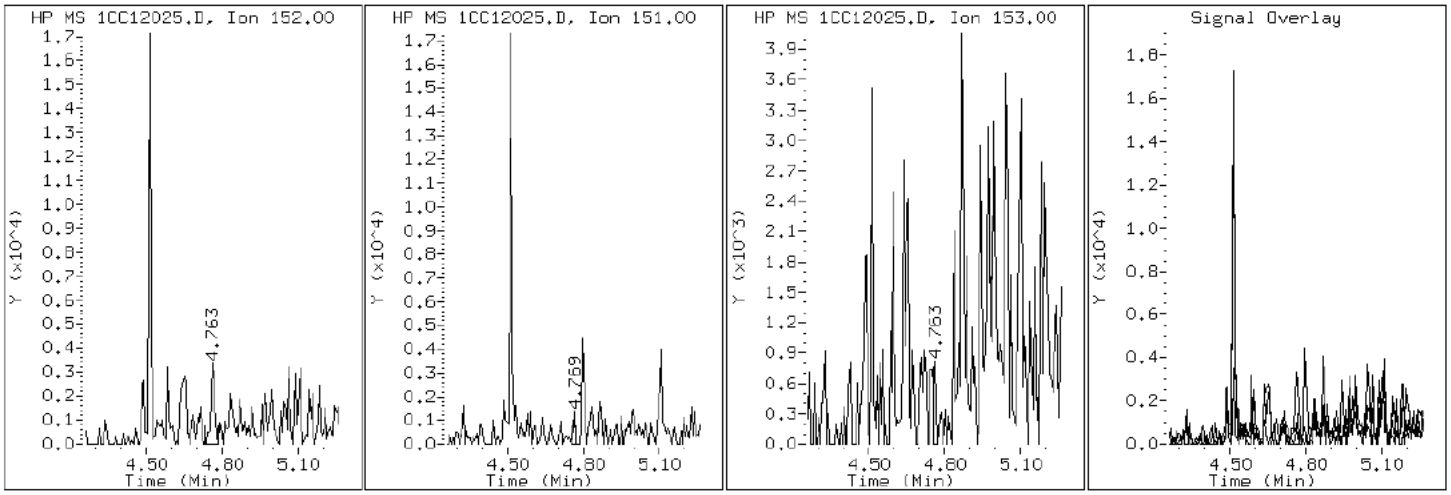
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

5 Acenaphthylene



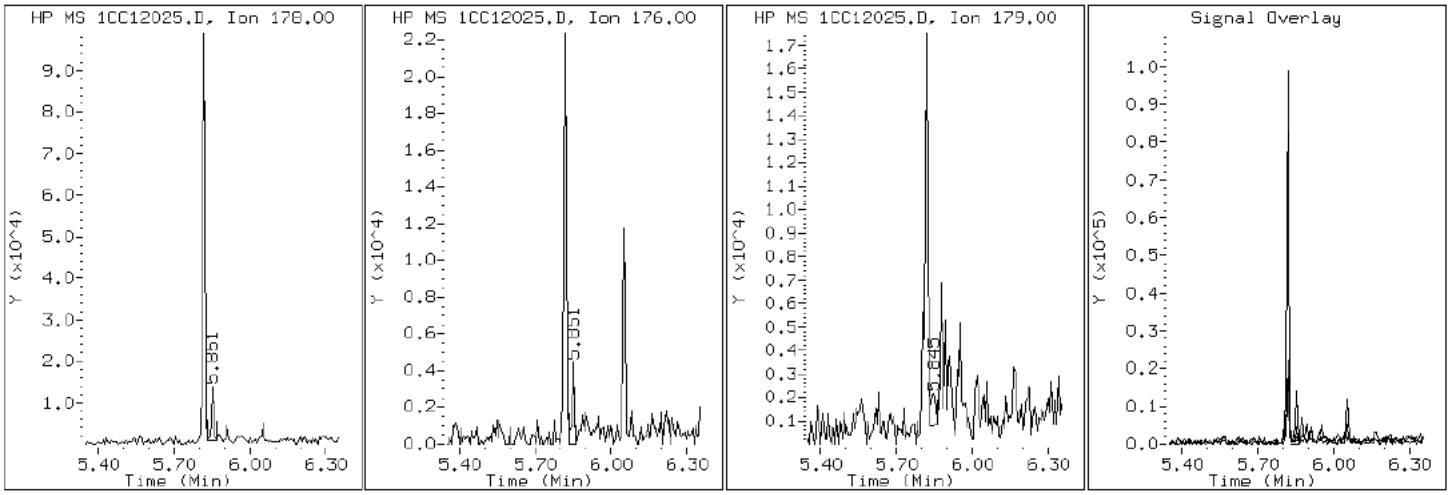
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

12 Anthracene



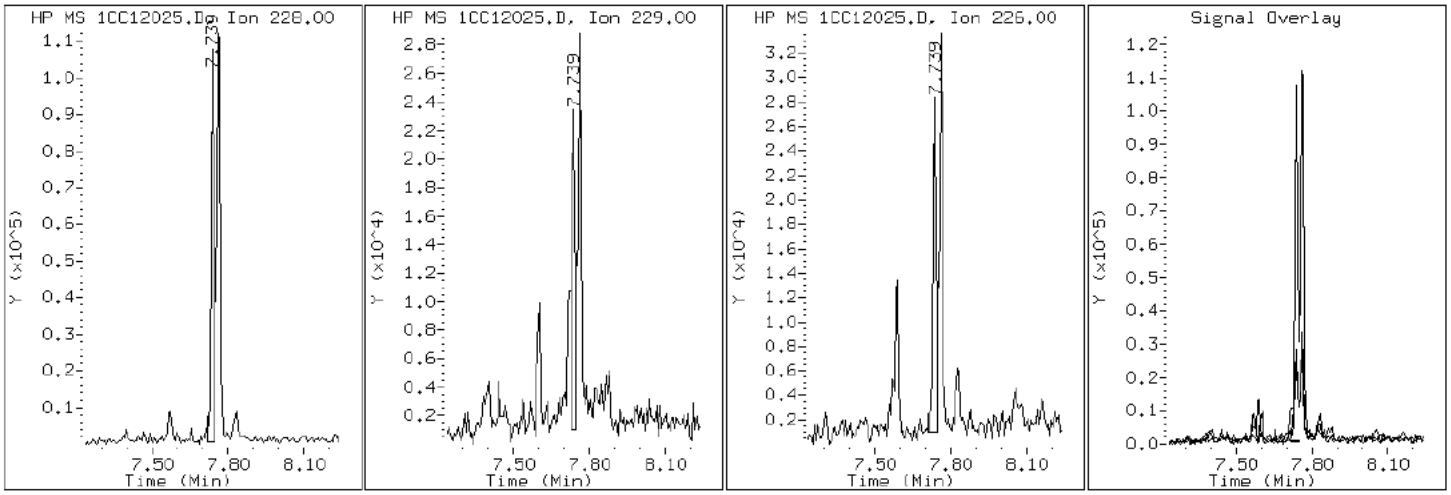
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

17 Benzo(a)anthracene



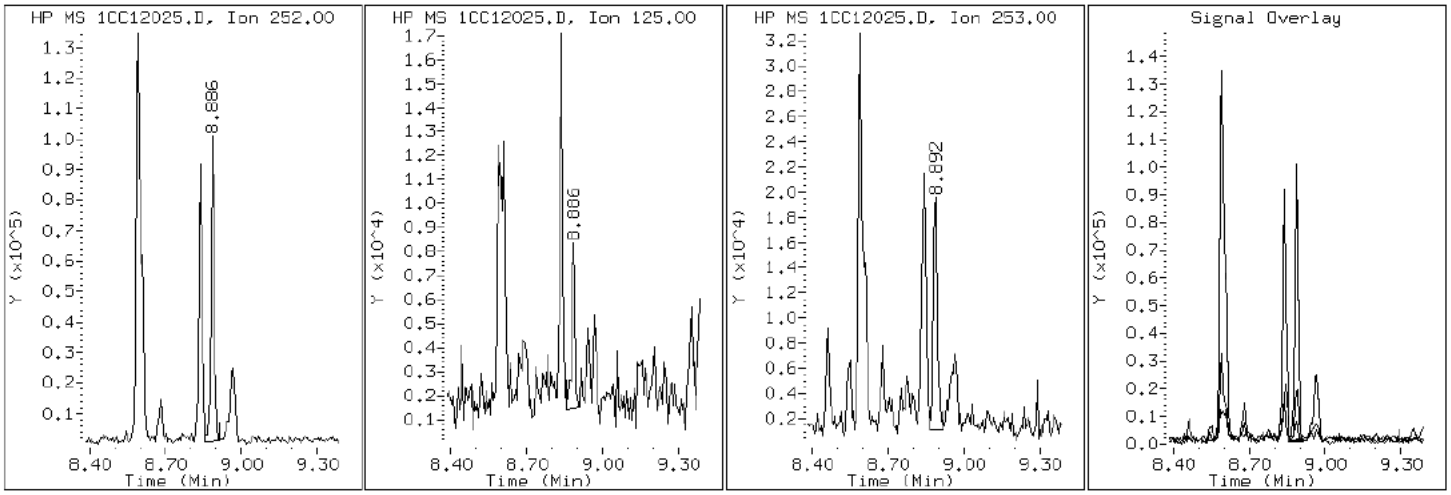
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

22 Benzo(a)pyrene



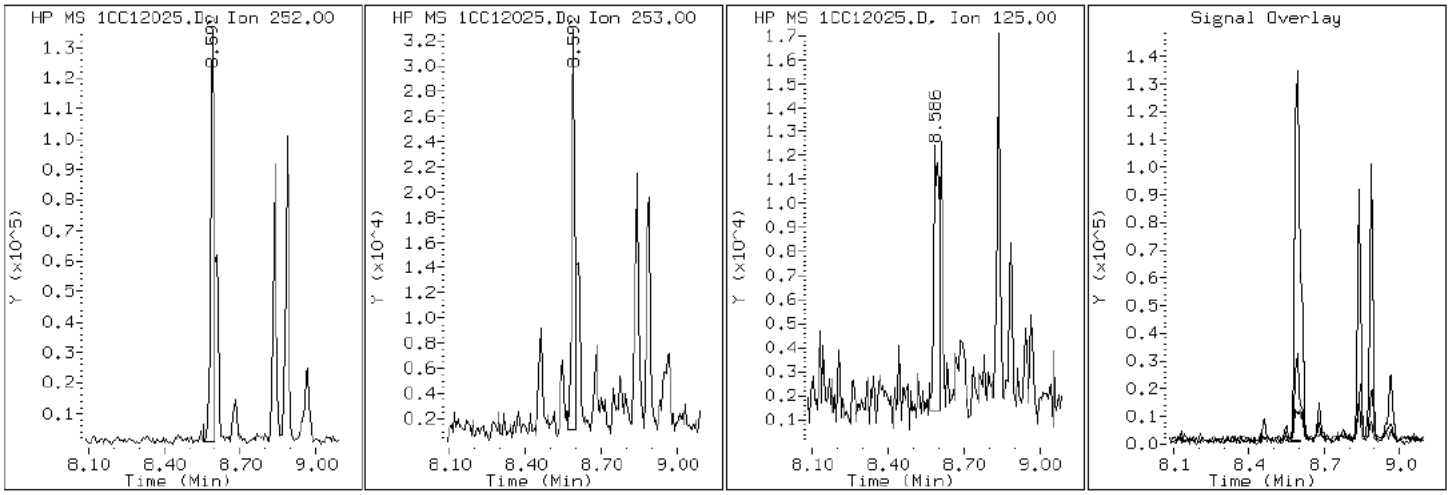
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



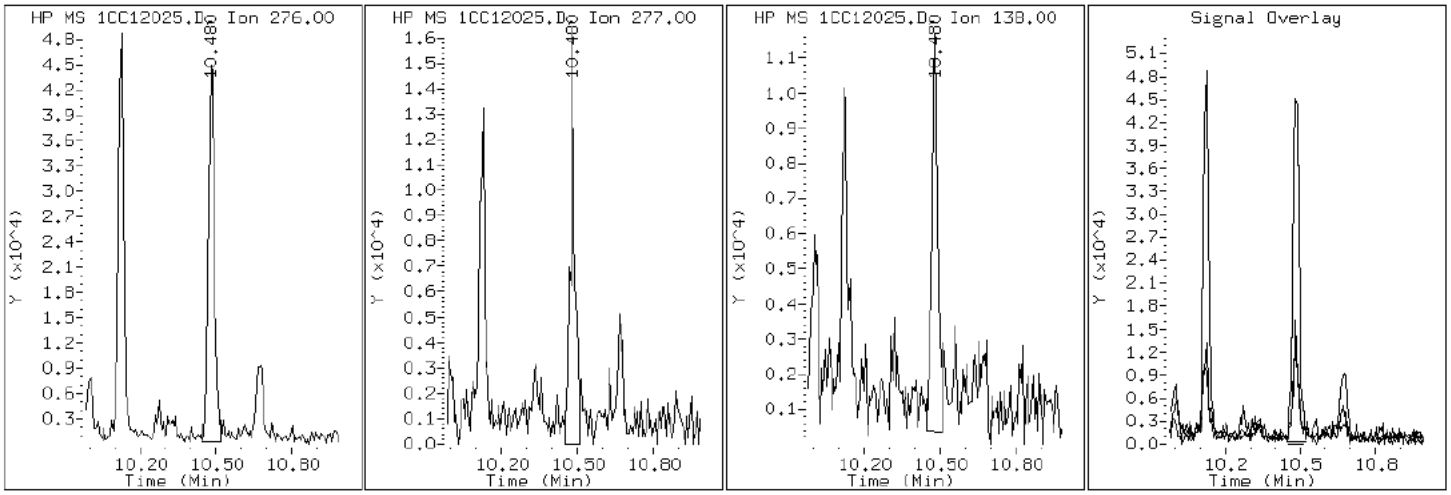
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



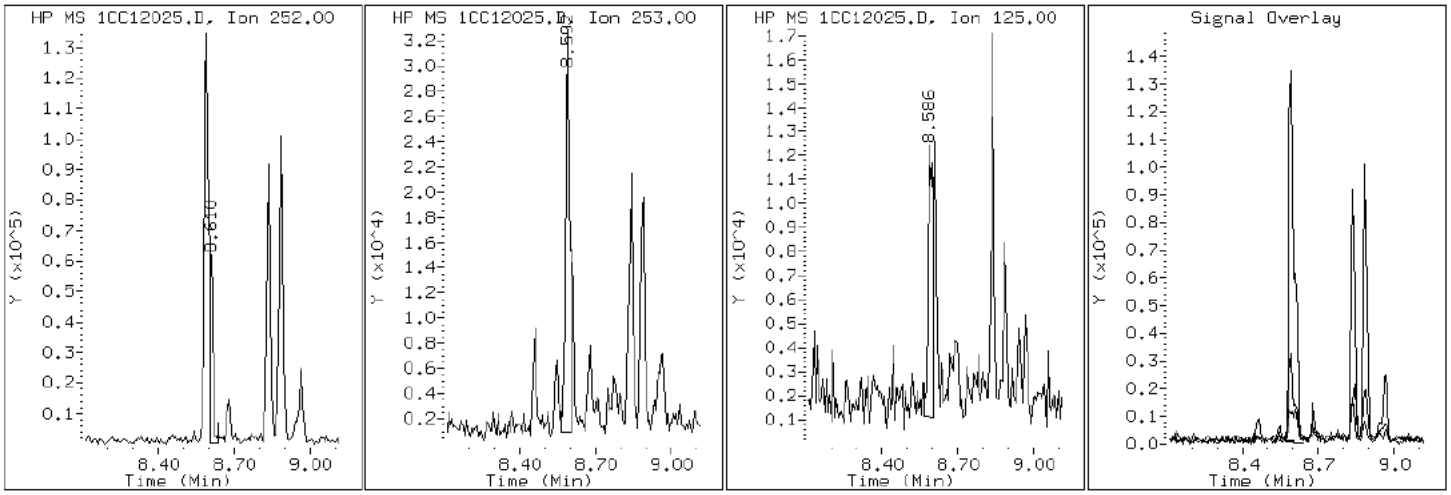
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



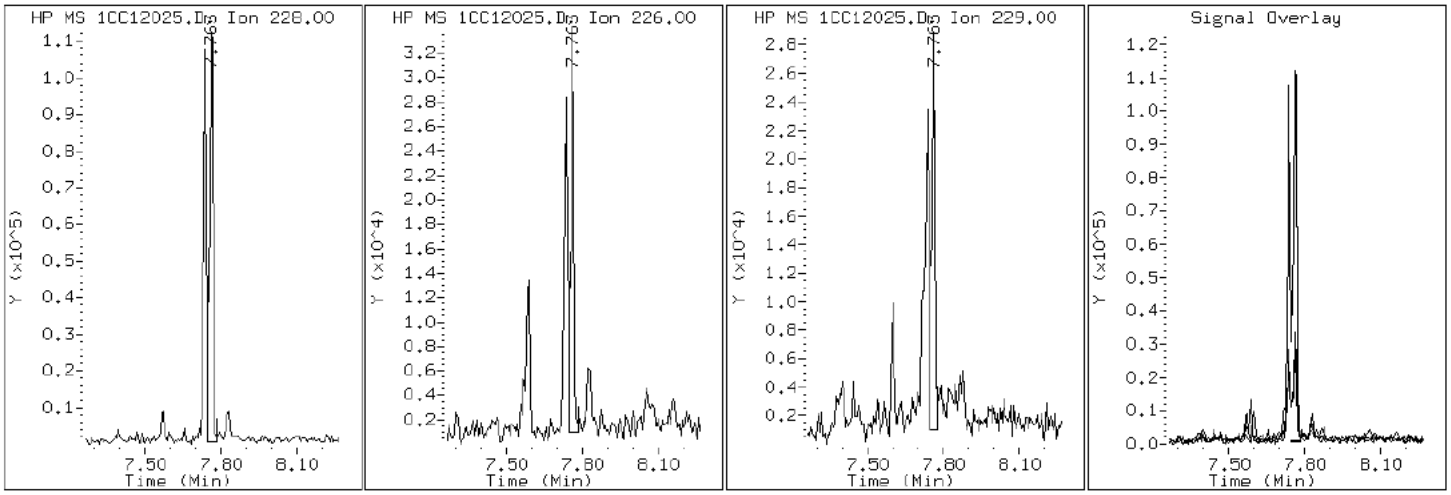
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

19 Chrysene



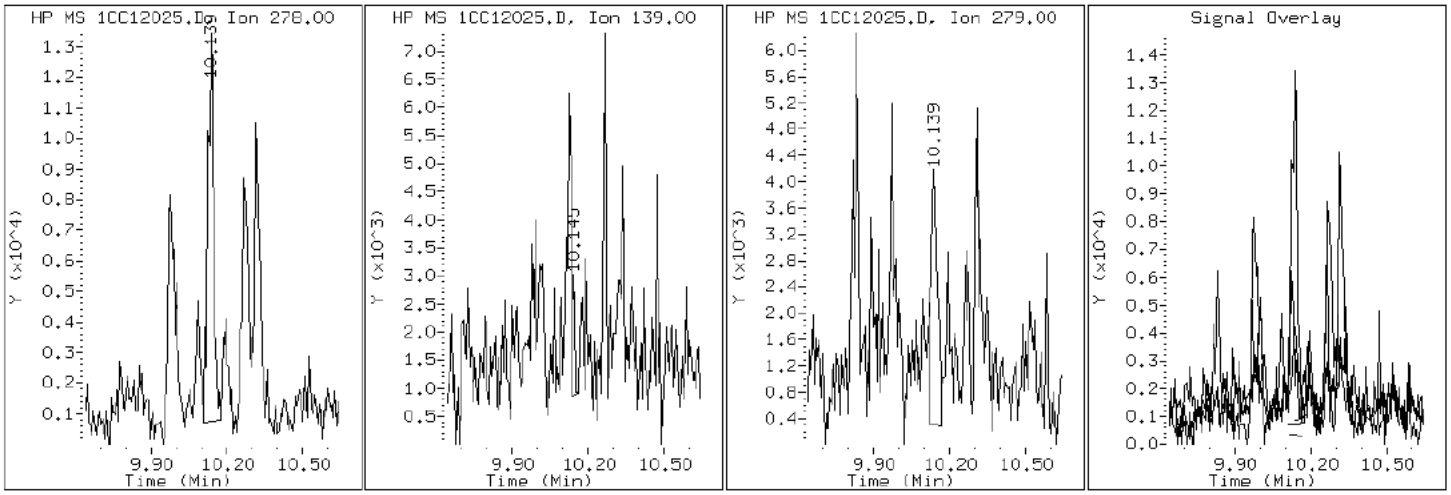
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



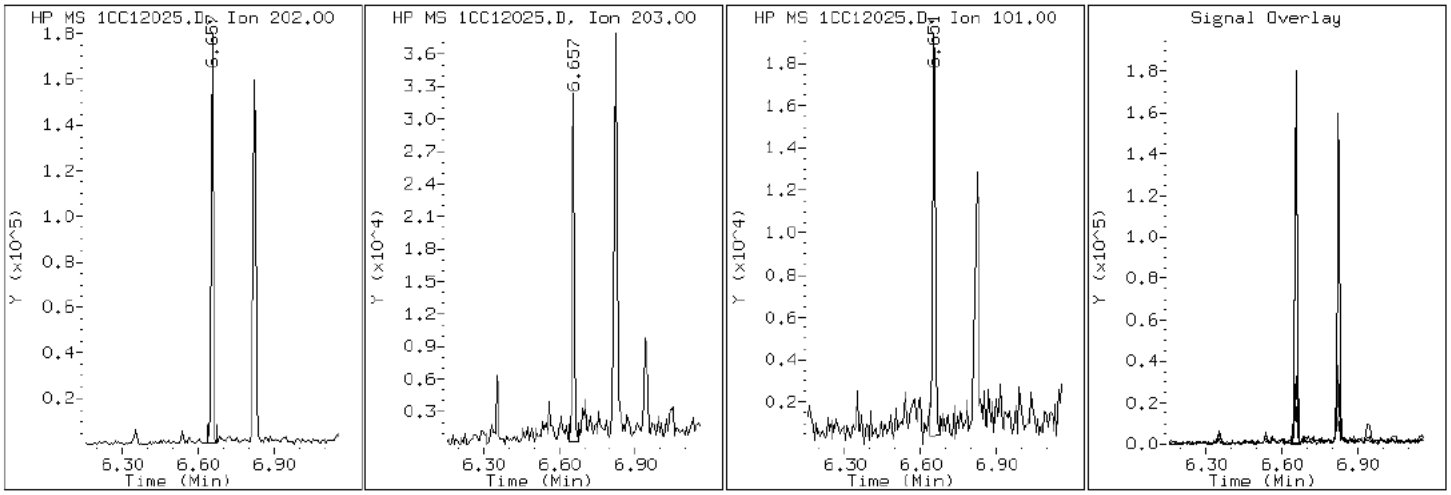
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

15 Fluoranthene



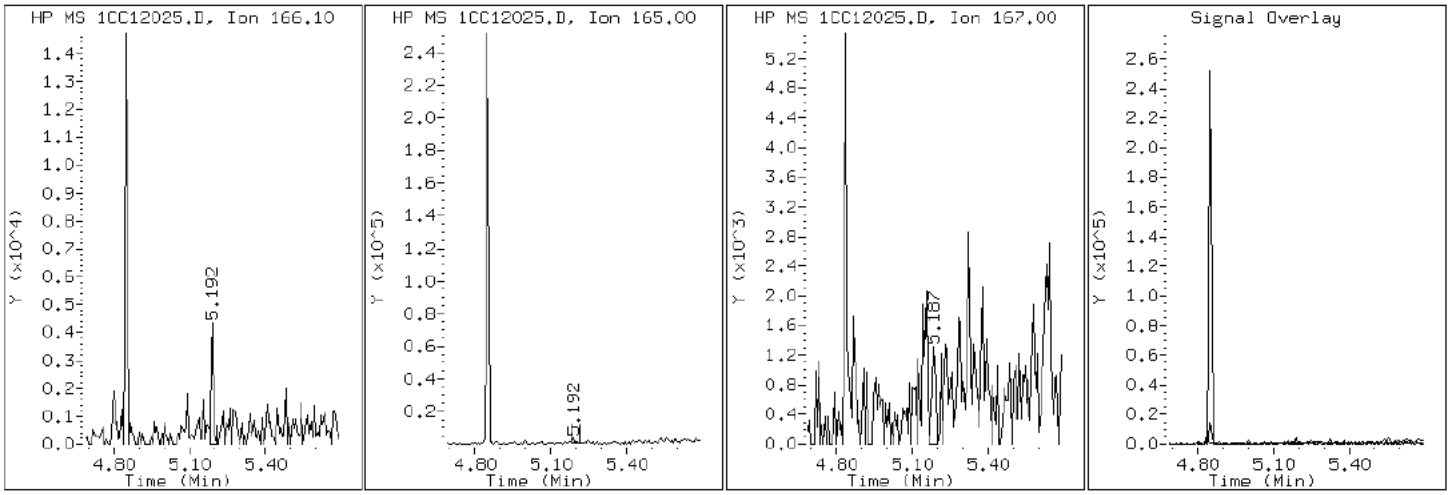
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

9 Fluorene



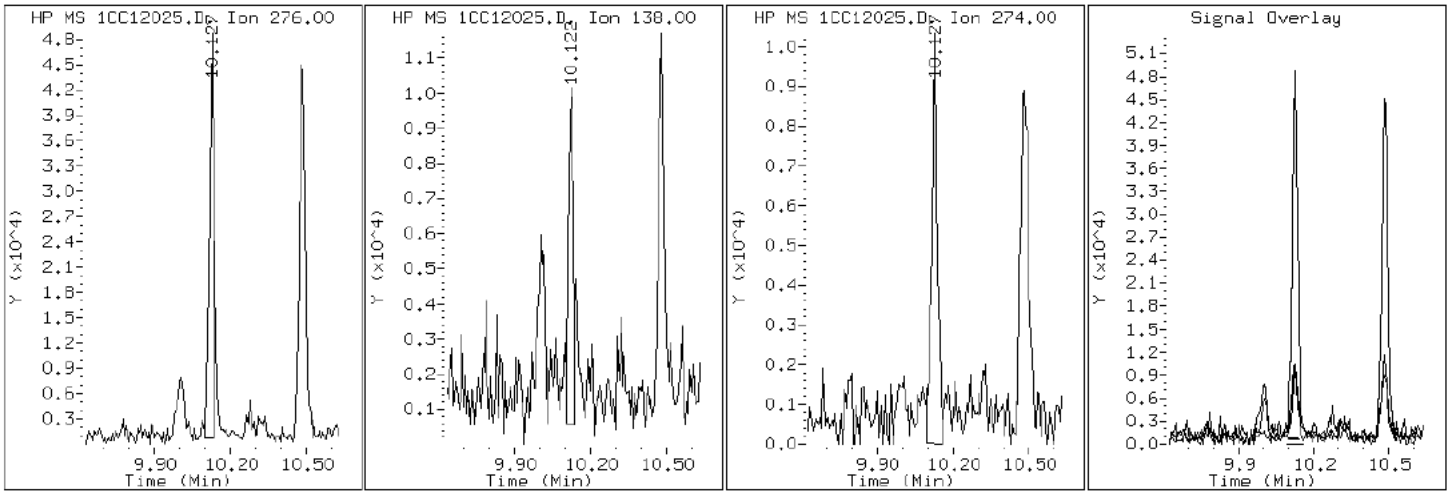
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

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



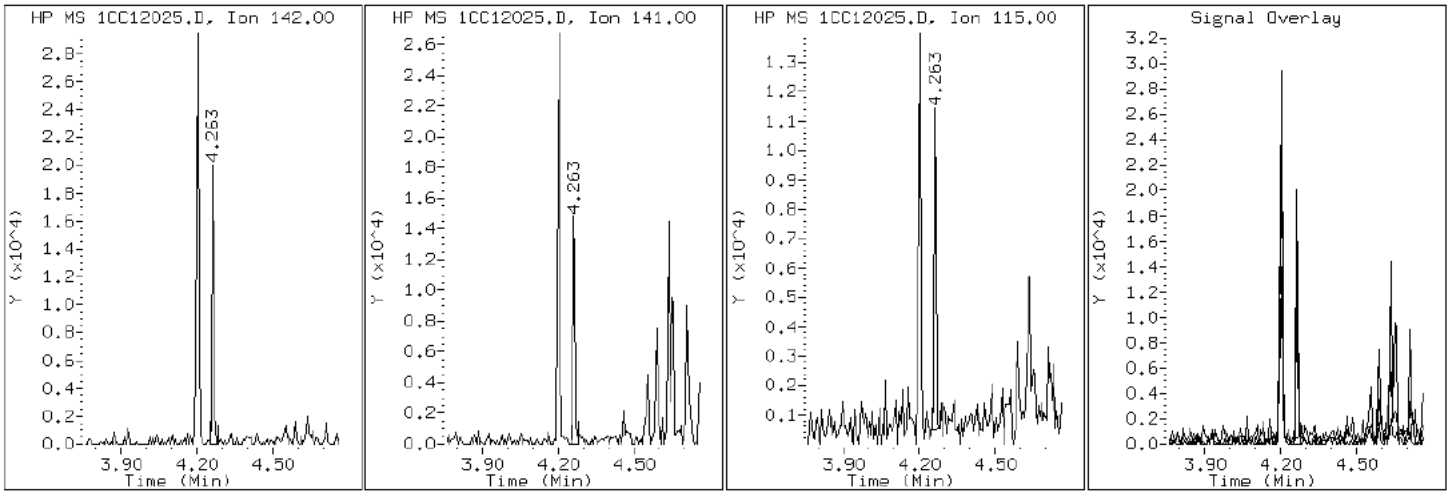
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

4 1-Methylnaphthalene



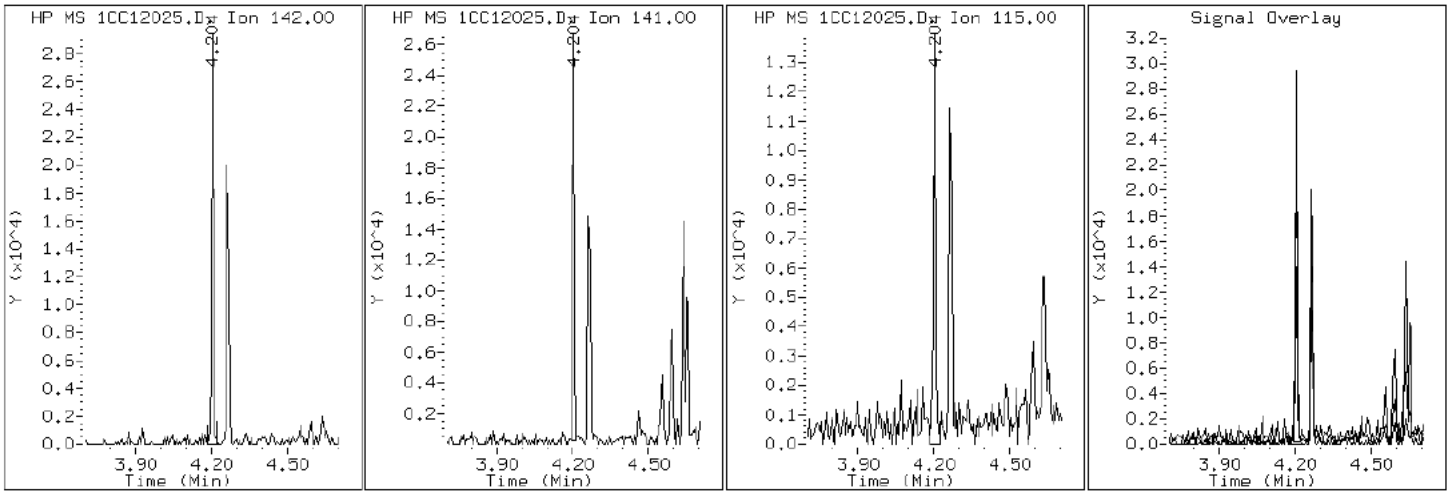
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

3 2-Methylnaphthalene



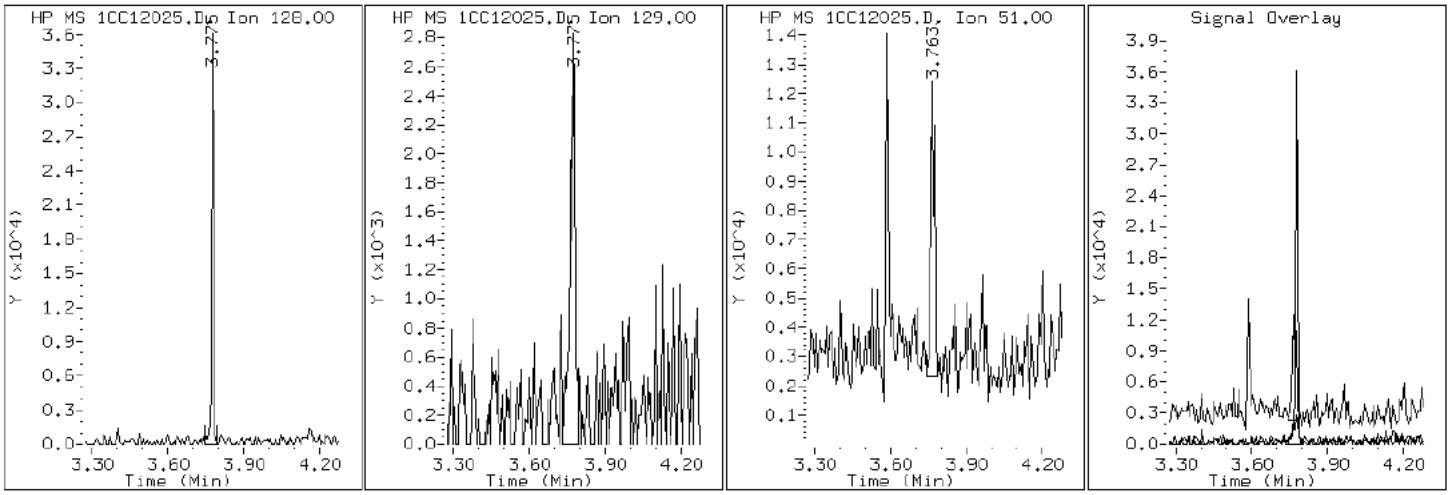
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

2 Naphthalene



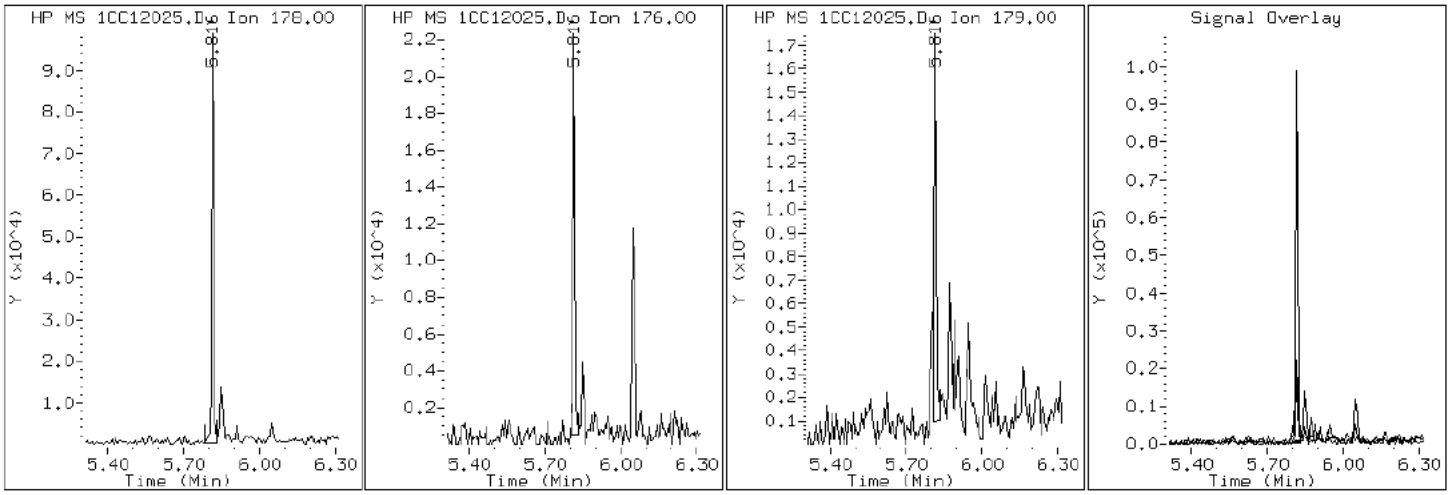
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

11 Phenanthrene



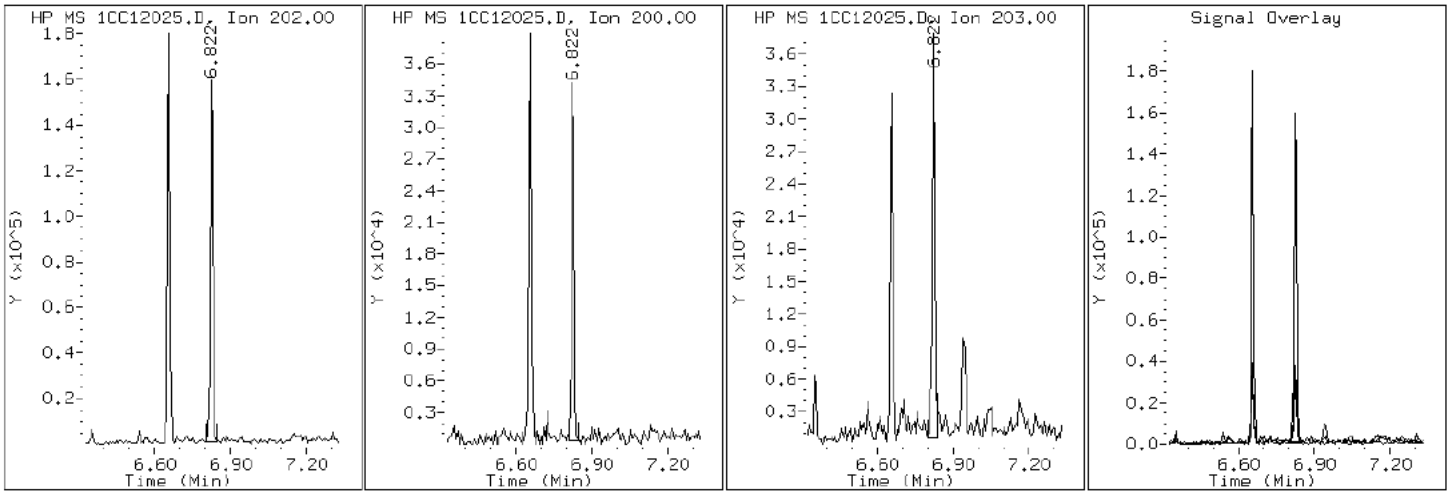
Data File: 1CC12025.D

Date: 12-MAR-2013 19:33

Client ID: CV0281B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12025.D
Inj. Date and Time: 12-MAR-2013 19:33
Instrument ID: BSMC5973.i
Client ID: CV0281B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

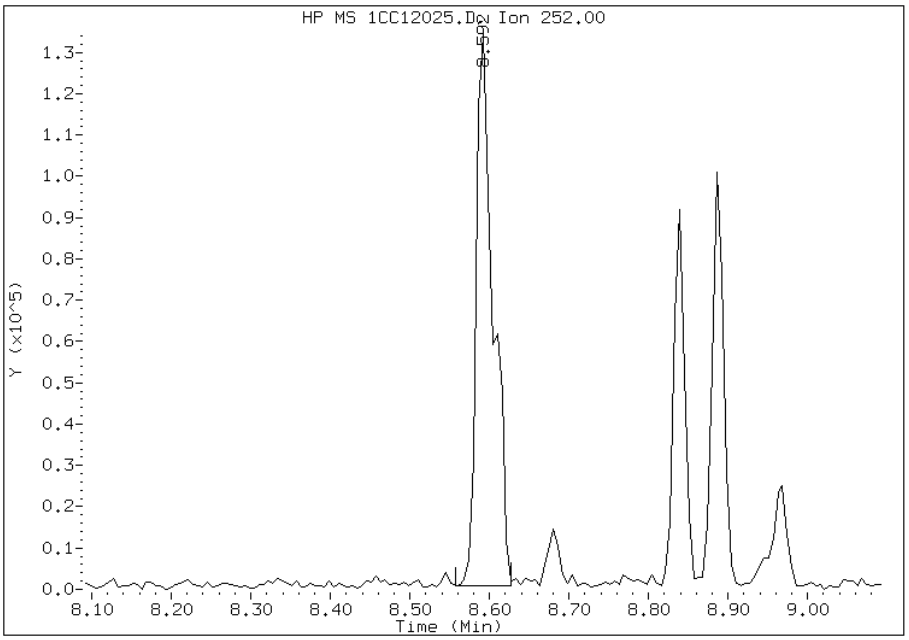
Processing Integration Results

RT: 8.59

Response: 198019

Amount: 4

Conc: 307



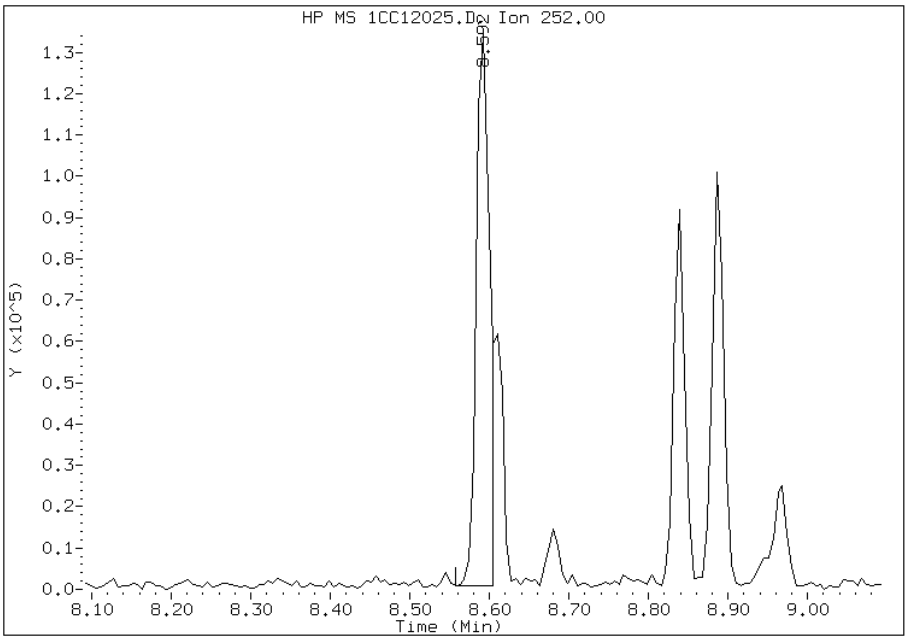
Manual Integration Results

RT: 8.59

Response: 155702

Amount: 3

Conc: 241



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12025.D
Inj. Date and Time: 12-MAR-2013 19:33
Instrument ID: BSMC5973.i
Client ID: CV0281B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

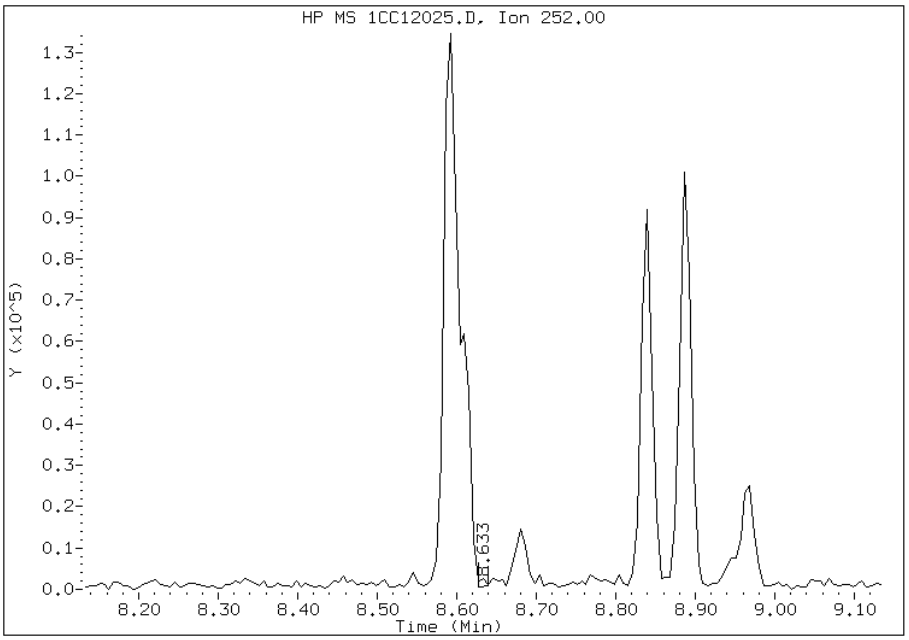
Processing Integration Results

RT: 8.63

Response: 1362

Amount: 0

Conc: 2



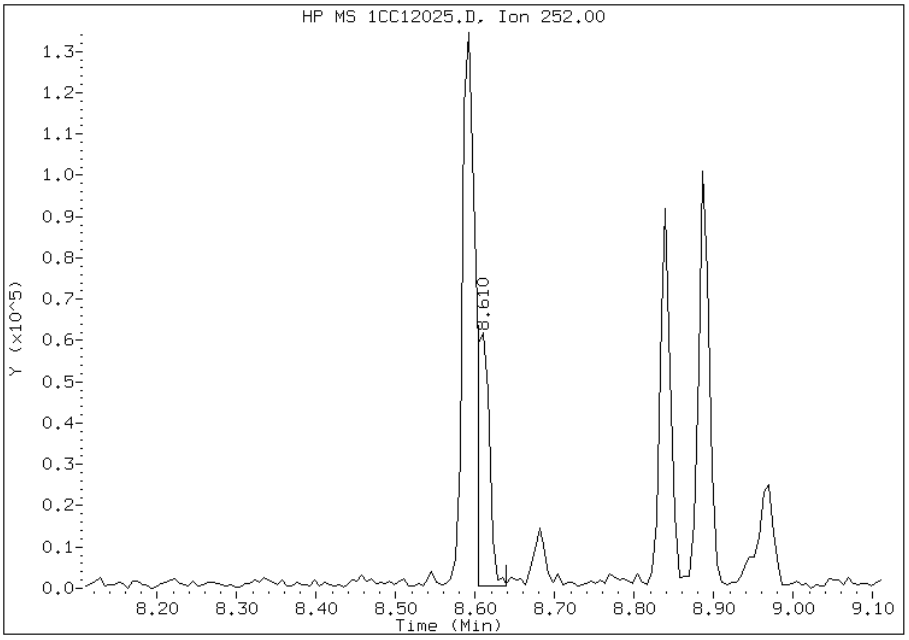
Manual Integration Results

RT: 8.61

Response: 64648

Amount: 1

Conc: 98



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12025.D
Inj. Date and Time: 12-MAR-2013 19:33
Instrument ID: BSMC5973.i
Client ID: CV0281B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

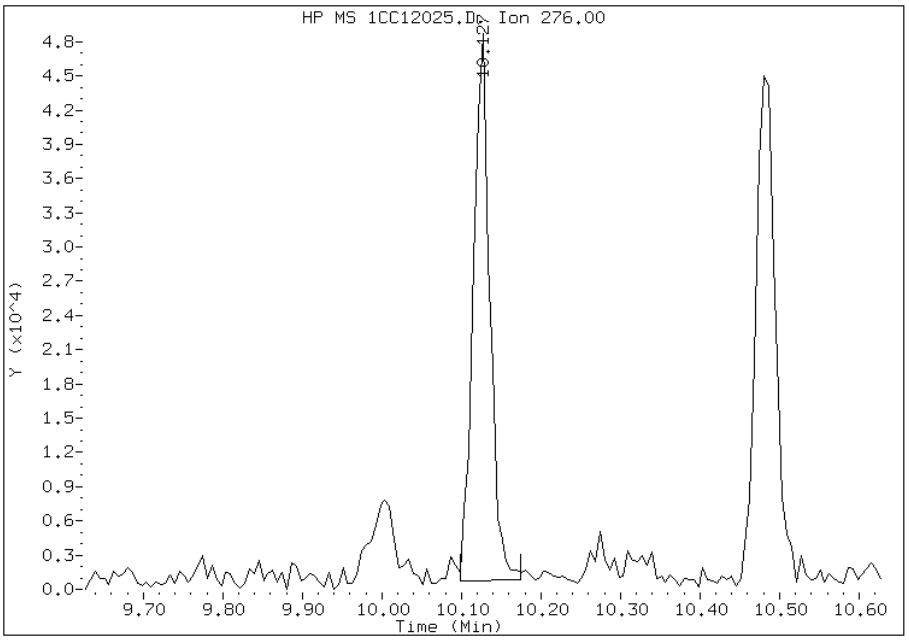
Processing Integration Results

RT: 10.13

Response: 68641

Amount: 1

Conc: 116



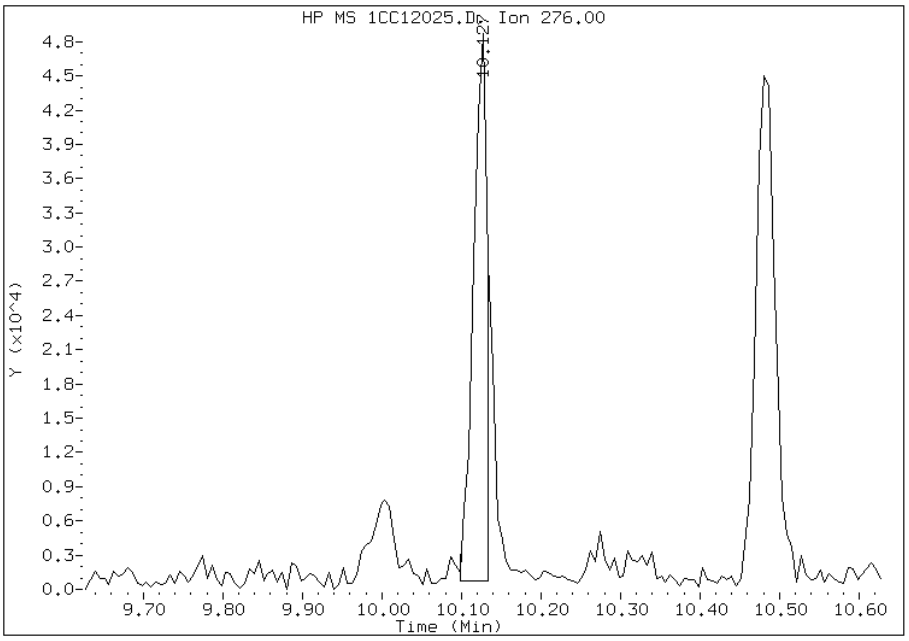
Manual Integration Results

RT: 10.13

Response: 57469

Amount: 1

Conc: 97



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 16:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0339A-CS-SP | Lab Sample ID: 680-88067-14

Matrix: Solid | Lab File ID: 1CC12026.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 12:44

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

Sample wt/vol: 15.06(g) | Date Analyzed: 03/12/2013 19:51

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

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

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	220	U	220	27
120-12-7	Anthracene	46		46	23
56-55-3	Benzo[a]anthracene	400		43	21
50-32-8	Benzo[a]pyrene	390		56	28
205-99-2	Benzo[b]fluoranthene	570		66	33
191-24-2	Benzo[g,h,i]perylene	270		110	24
207-08-9	Benzo[k]fluoranthene	230		43	20
218-01-9	Chrysene	400		49	24
53-70-3	Dibenz(a,h)anthracene	81	J	110	22
206-44-0	Fluoranthene	530		110	22
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	230		110	39
90-12-0	1-Methylnaphthalene	62	J	220	24
91-57-6	2-Methylnaphthalene	96	J	220	39
91-20-3	Naphthalene	85	J	220	24
85-01-8	Phenanthrene	270		43	21
129-00-0	Pyrene	540		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12026.D
Lab Smp Id: 680-88067-A-14-A Client Smp ID: CV0339A-CS-SP
Inj Date : 12-MAR-2013 19:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-14-a
Misc Info : 680-88067-A-14-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: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	26.582	% 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)	1340103	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1029419	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1885358	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	60338	2.11967	766.8373
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	1986125	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	1847884	40.0000	
	2 Naphthalene	128	3.775	3.774	(1.003)	8227	0.23581	85.3100(Q)
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	6170	0.26513	95.9156
	4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	3616	0.17061	61.7203
	11 Phenanthrene	178	5.816	5.815	(1.002)	41374	0.75893	274.5591
	12 Anthracene	178	5.851	5.851	(1.008)	6707	0.12580	45.5093
	13 Carbazole	167	5.957	5.957	(1.026)	7537	0.15903	57.5311
	15 Fluoranthene	202	6.657	6.657	(1.147)	87942	1.47302	532.8962
	16 Pyrene	202	6.821	6.827	(0.881)	79148	1.48289	536.4660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	63541	1.10847	401.0108
19 Chrysene	228	7.763	7.768	(1.002)	63537	1.10756	400.6846
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	76075	1.57531	569.9020
21 Benzo(k)fluoranthene	252	8.610	8.615	(0.963)	31026	0.62628	226.5699
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	50184	1.06985	387.0417
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	28519	0.64630	233.8125(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	9698	0.22469	81.2857(Q)
26 Benzo(g,h,i)perylene	276	10.474	10.486	(1.171)	33946	0.73540	266.0453

QC Flag Legend

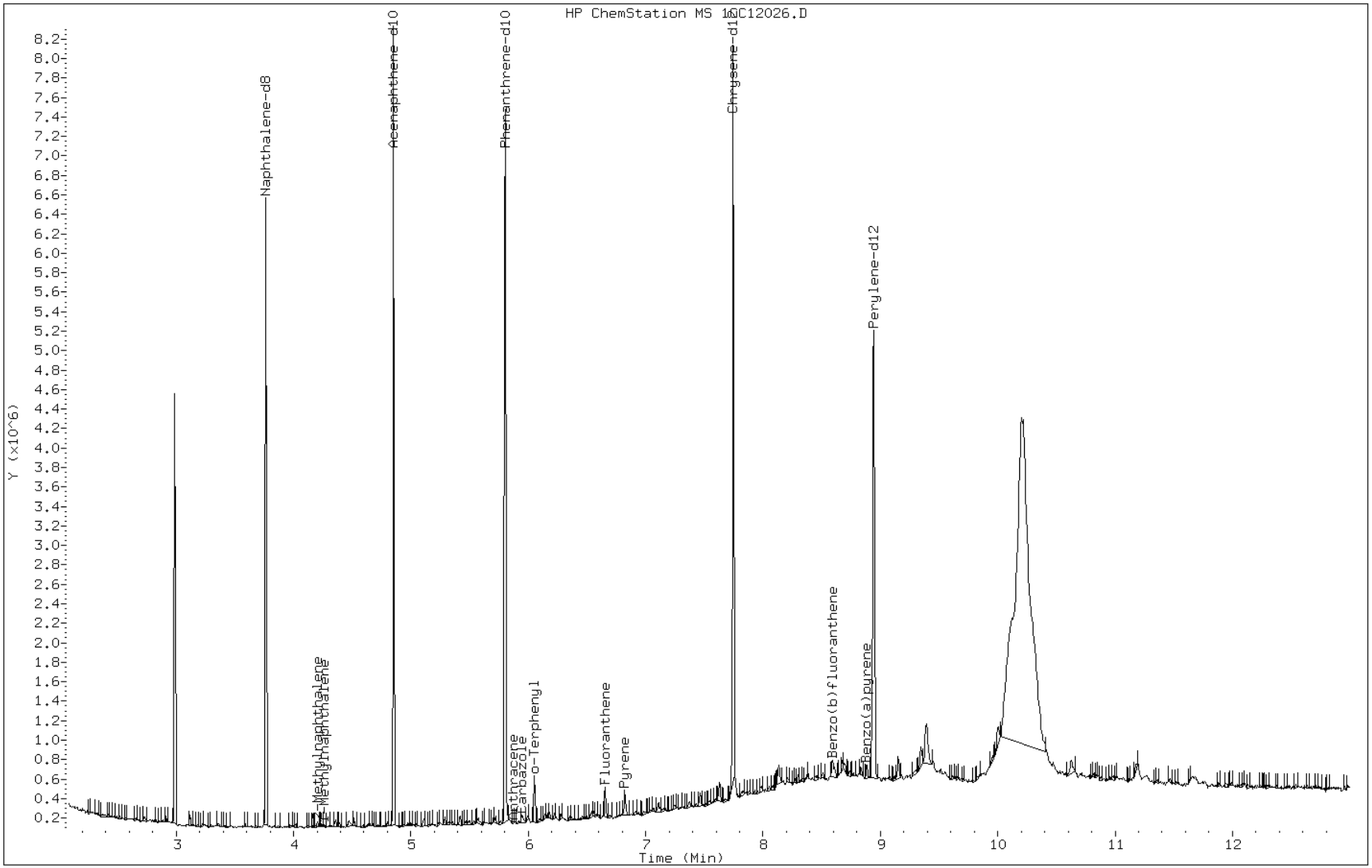
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC



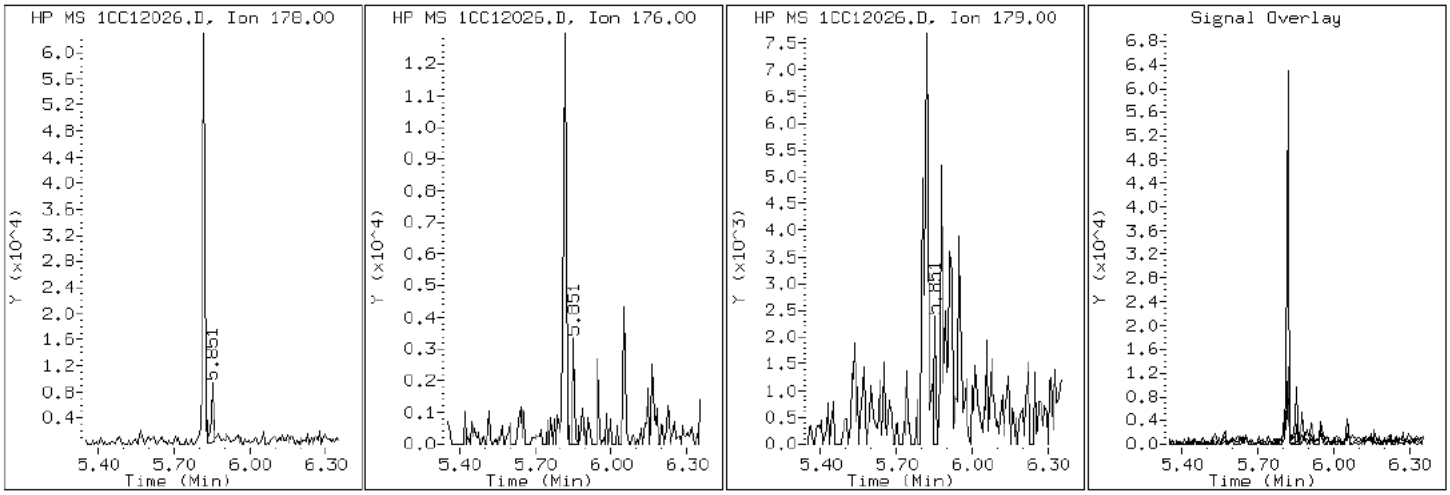
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

12 Anthracene



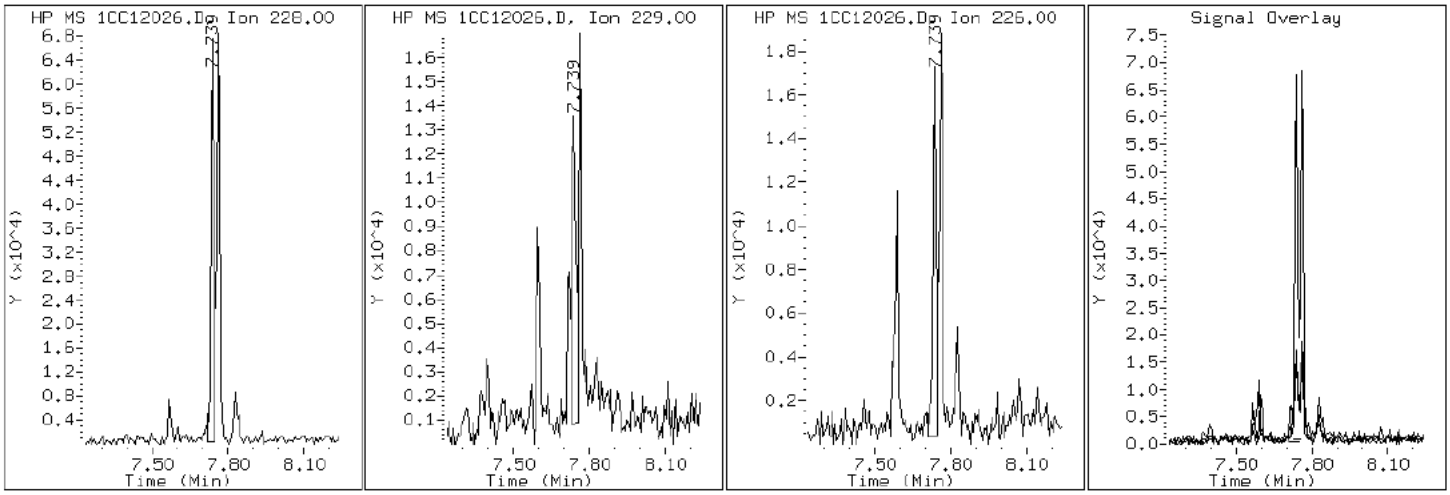
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

17 Benzo(a)anthracene



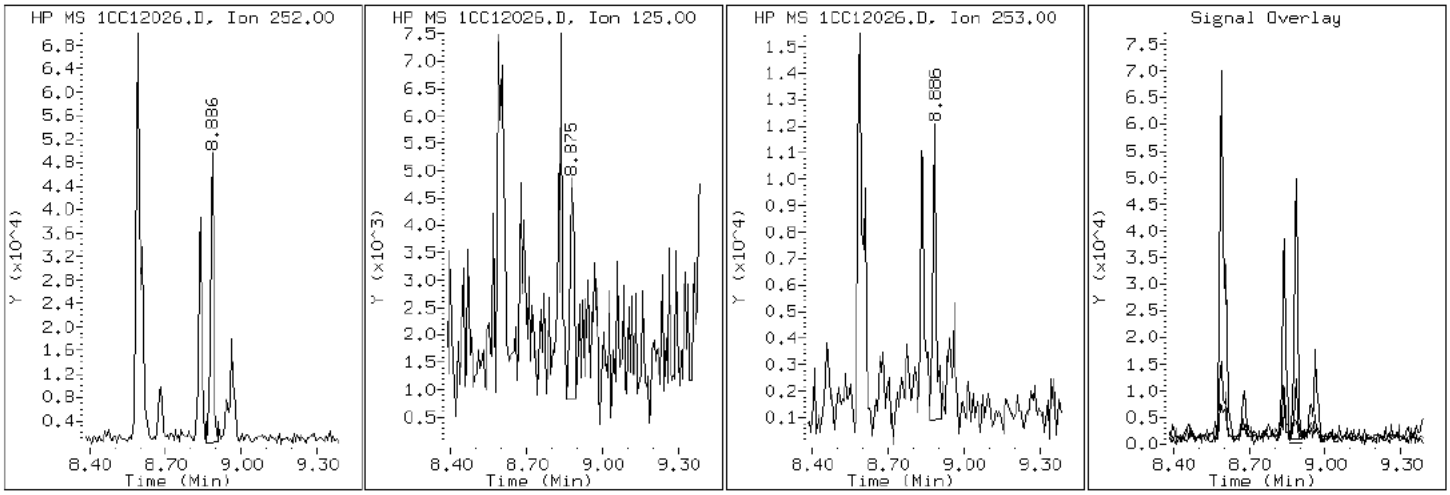
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

22 Benzo(a)pyrene



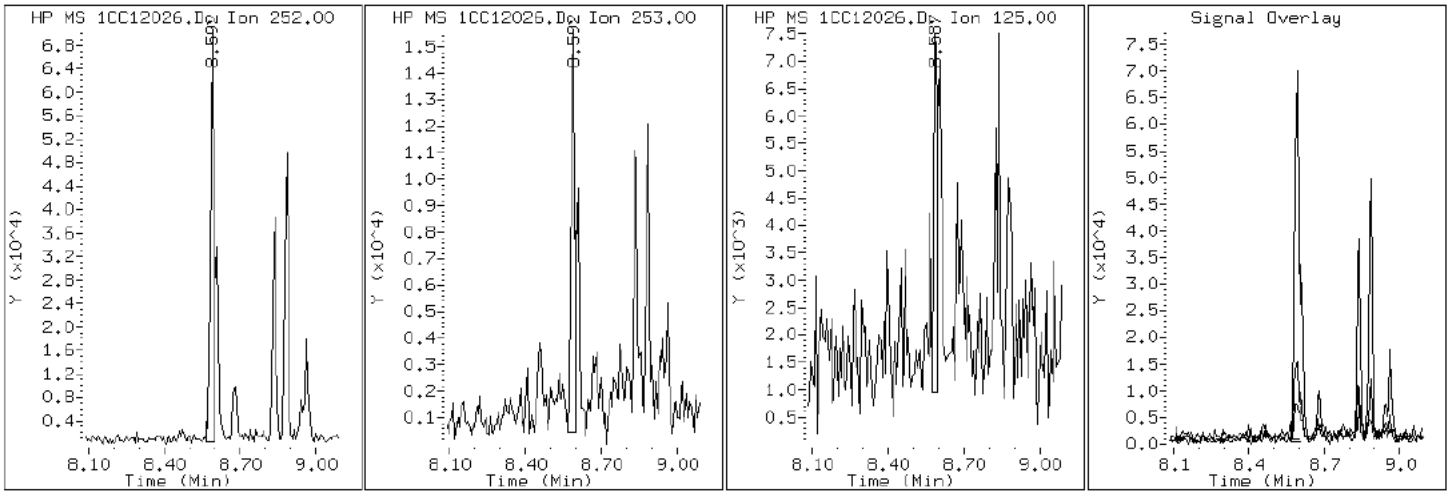
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



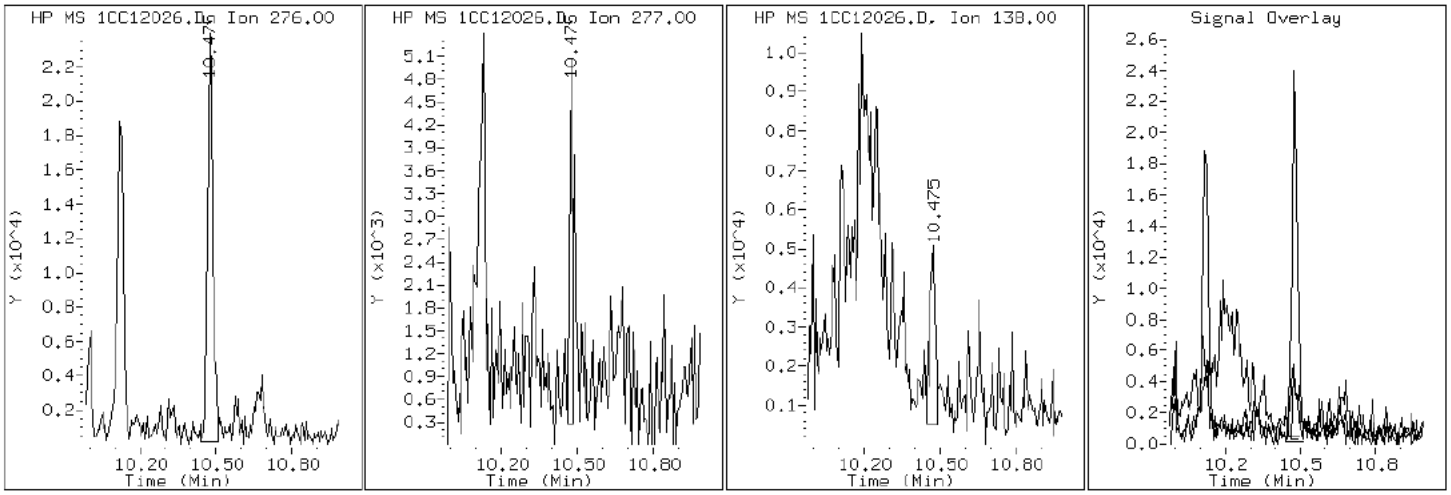
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



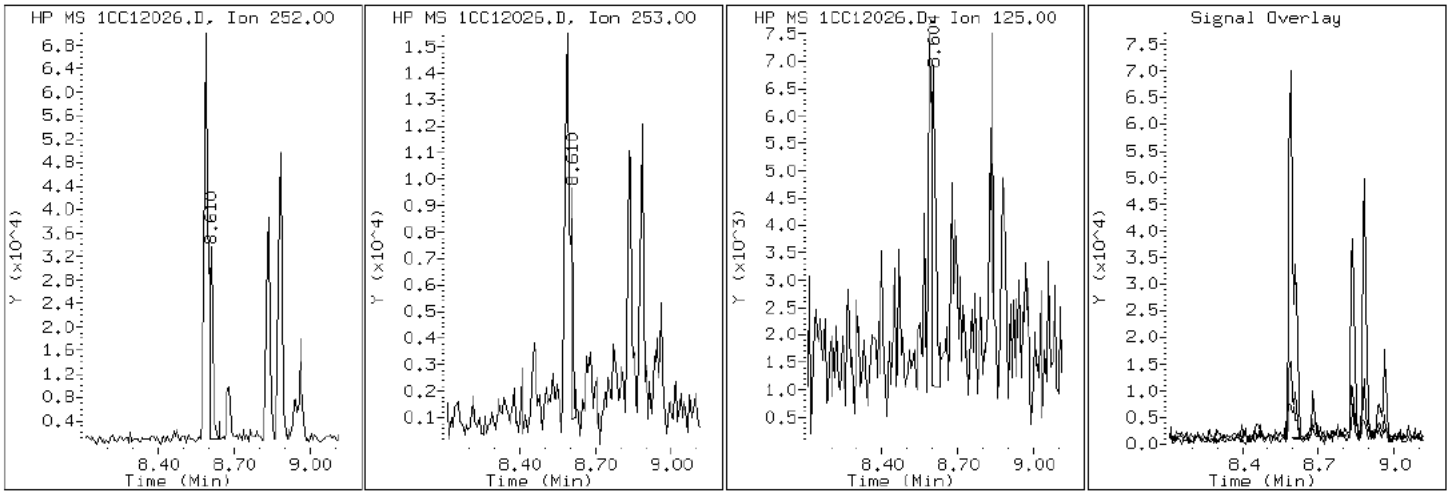
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



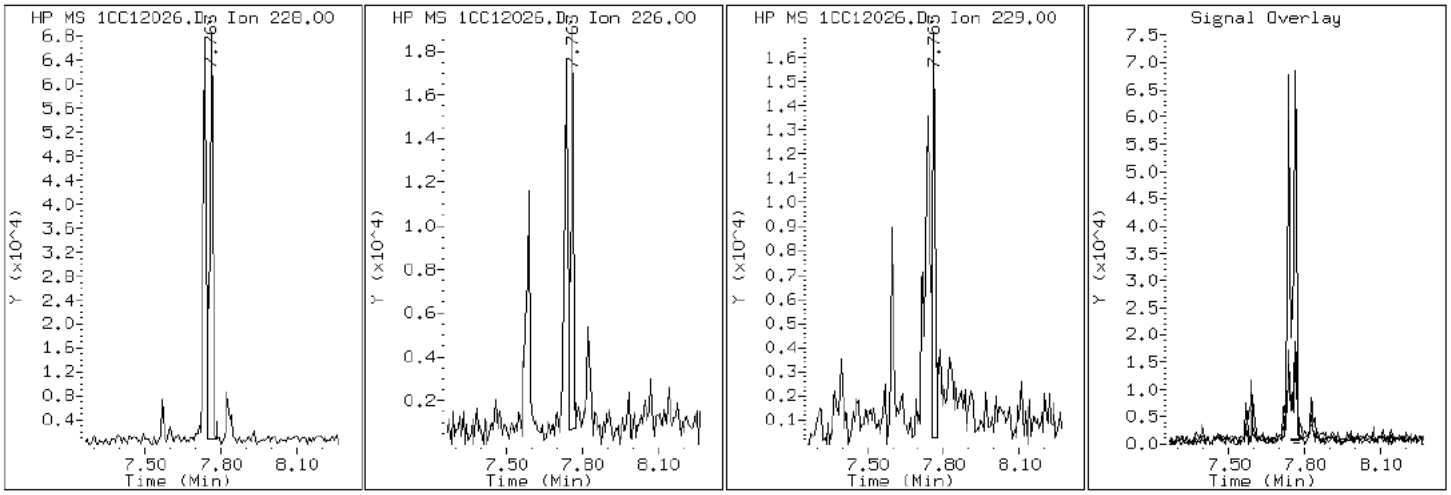
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

19 Chrysene



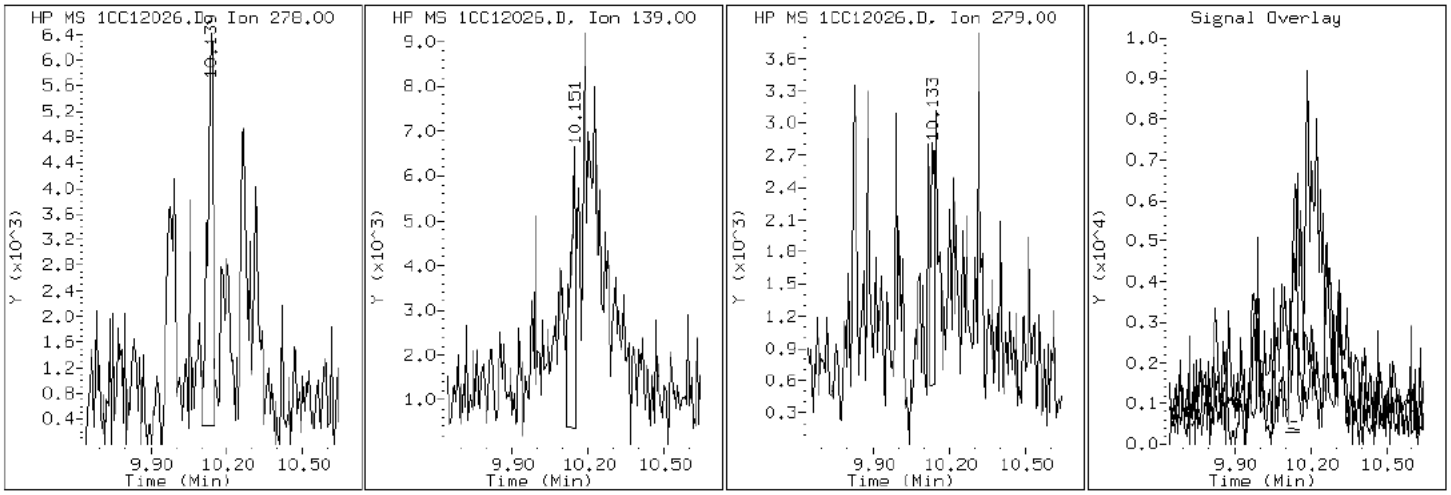
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



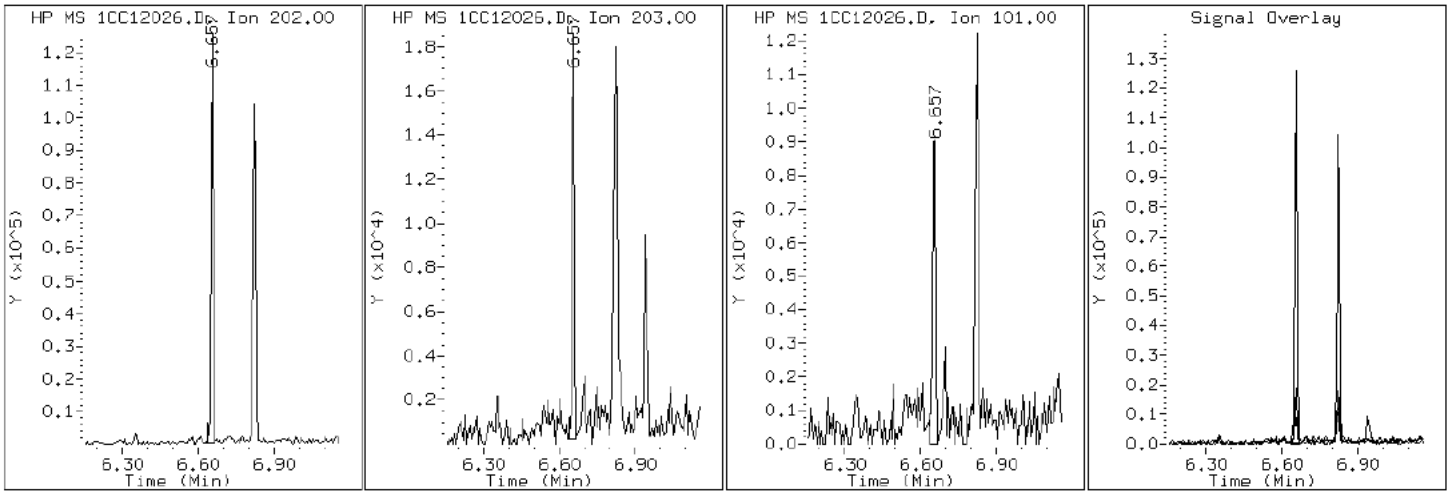
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

15 Fluoranthene



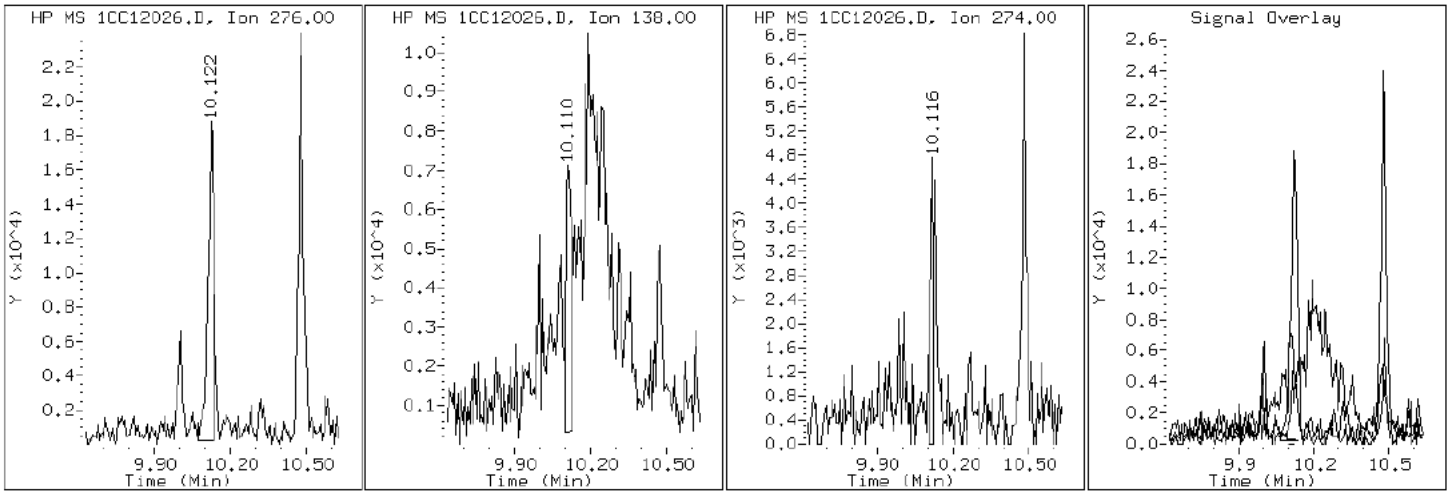
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

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



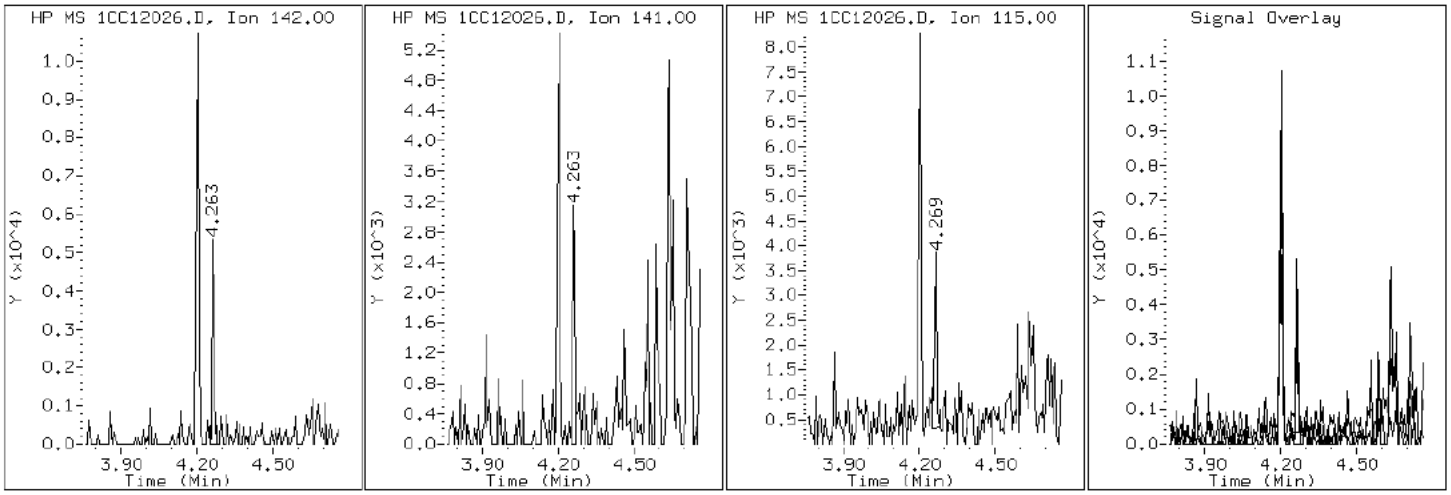
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

4 1-Methylnaphthalene



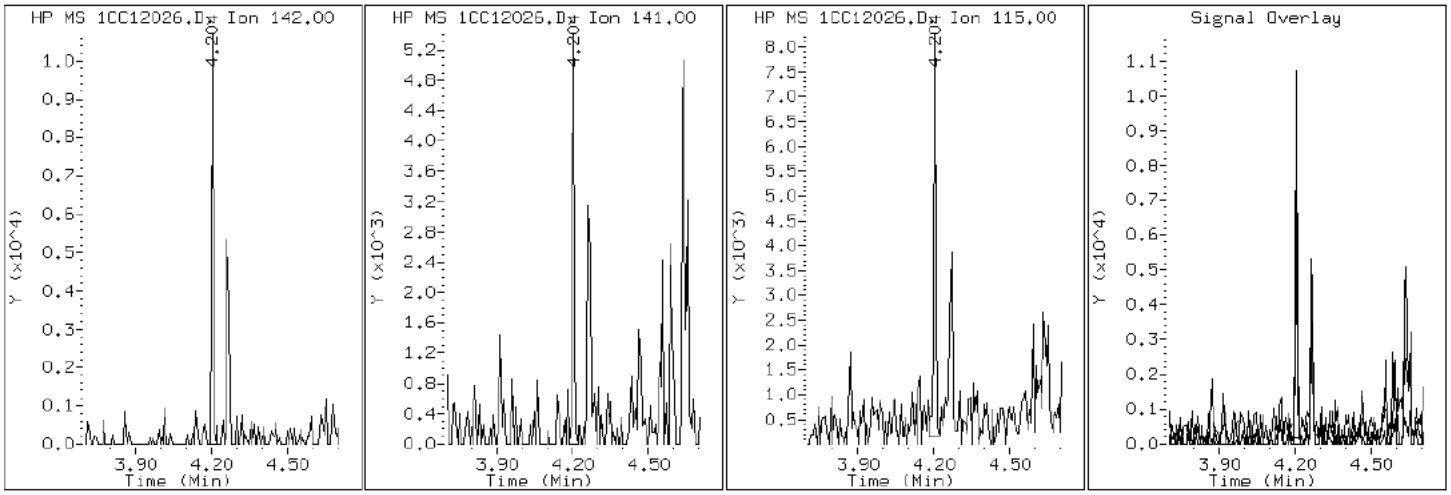
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

3 2-Methylnaphthalene



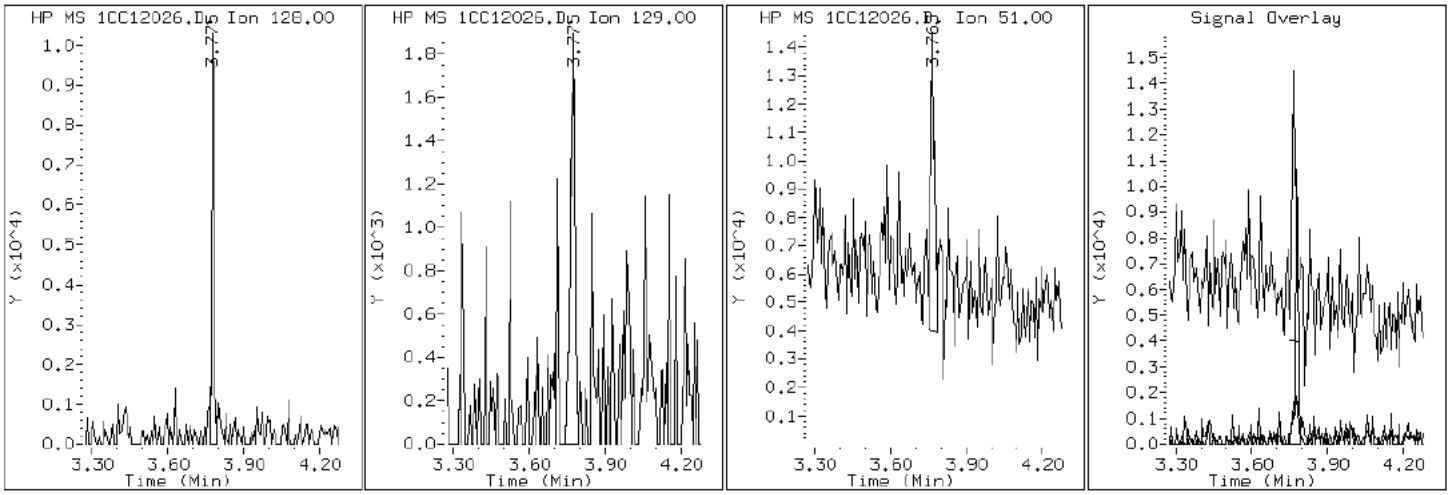
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

2 Naphthalene



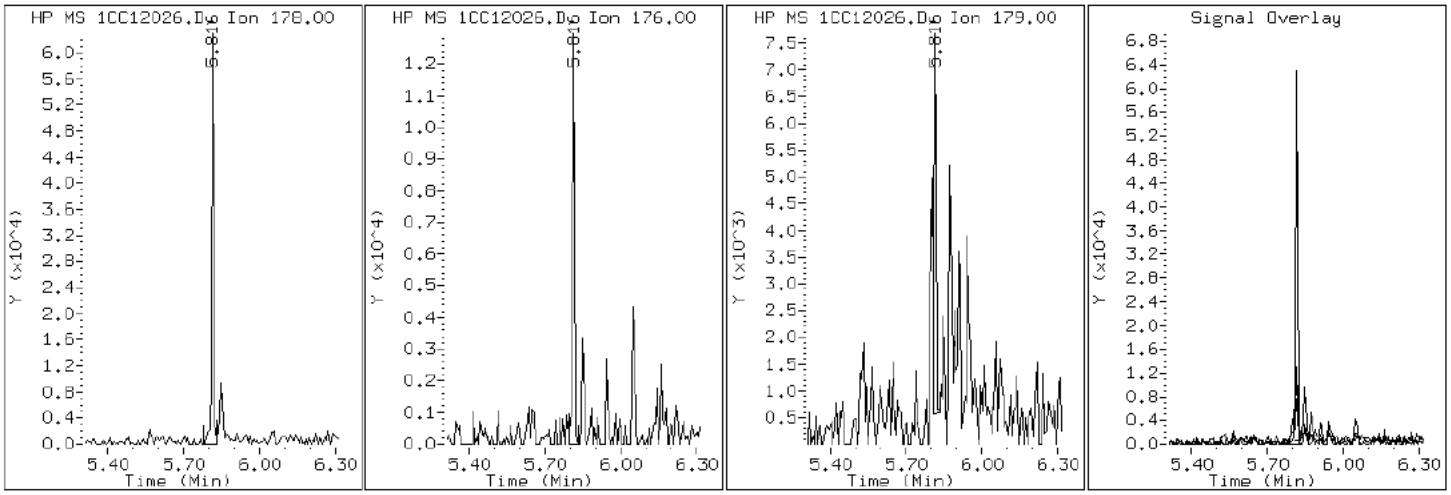
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

11 Phenanthrene



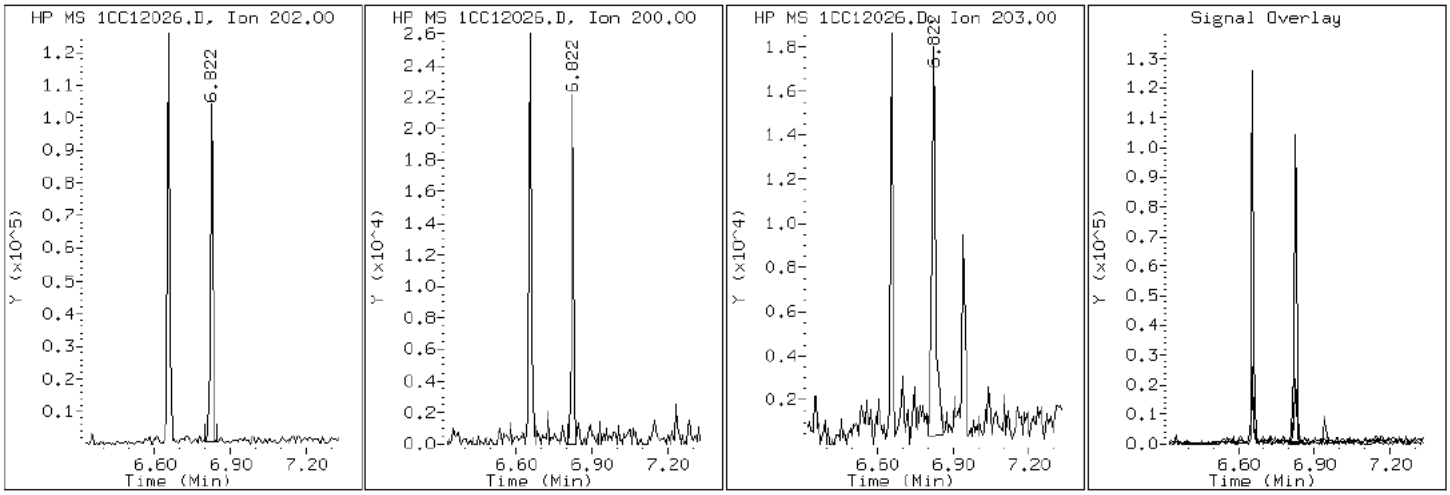
Data File: 1CC12026.D

Date: 12-MAR-2013 19:51

Client ID: CV0339A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12026.D
Inj. Date and Time: 12-MAR-2013 19:51
Instrument ID: BSMC5973.i
Client ID: CV0339A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

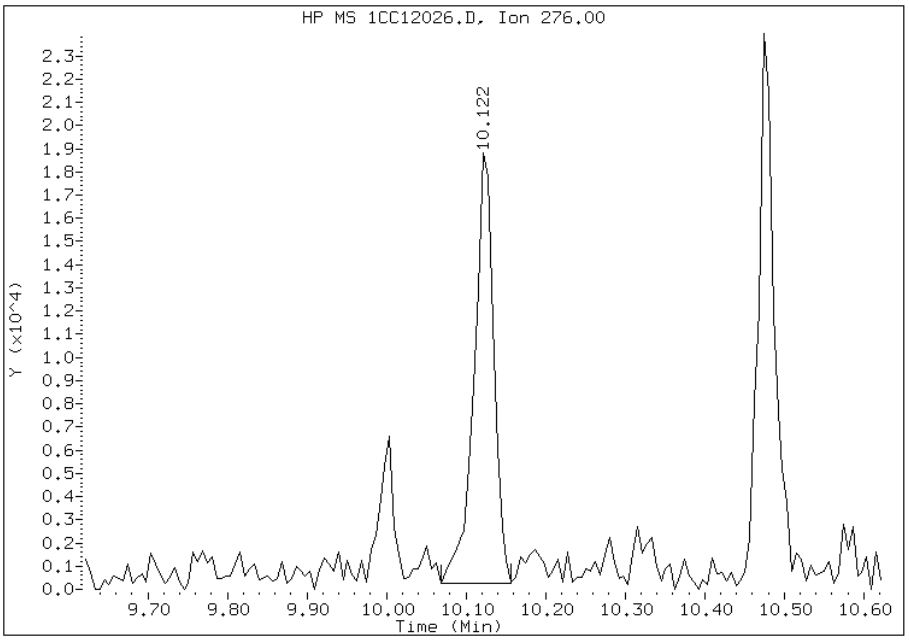
Processing Integration Results

RT: 10.12

Response: 31802

Amount: 1

Conc: 261



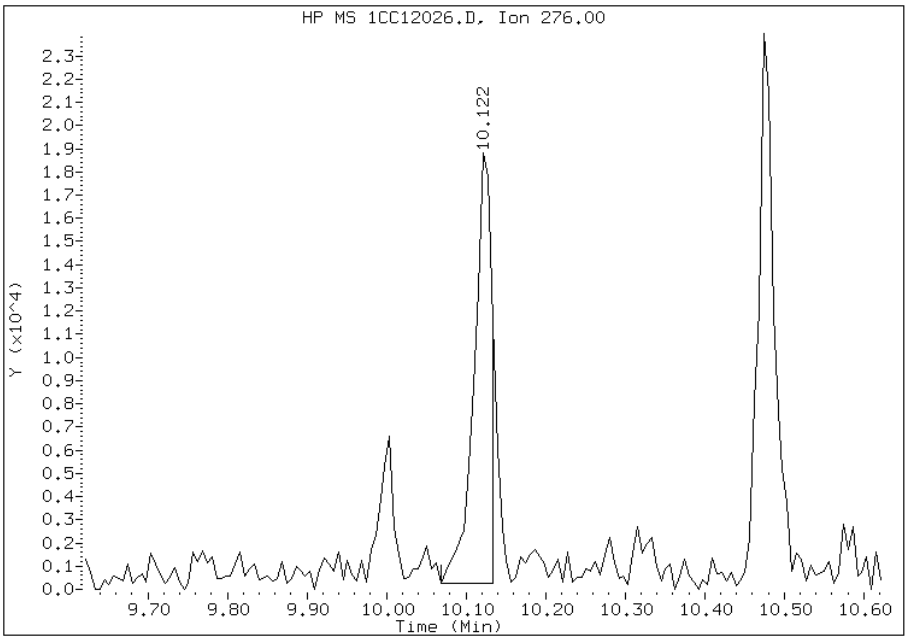
Manual Integration Results

RT: 10.12

Response: 28519

Amount: 1

Conc: 234



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0339B-CS-SP | Lab Sample ID: 680-88067-15

Matrix: Solid | Lab File ID: 1CC12027.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 12:54

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

Sample wt/vol: 15.46(g) | Date Analyzed: 03/12/2013 20:10

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

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

% Moisture: 27.0 | 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	130	J	210	27
120-12-7	Anthracene	270		45	22
56-55-3	Benzo[a]anthracene	5000		43	21
50-32-8	Benzo[a]pyrene	6000		55	28
205-99-2	Benzo[b]fluoranthene	9000		65	32
191-24-2	Benzo[g,h,i]perylene	3300		110	23
207-08-9	Benzo[k]fluoranthene	3000		43	19
218-01-9	Chrysene	5200		48	24
53-70-3	Dibenz(a,h)anthracene	1000		110	22
206-44-0	Fluoranthene	5800		110	21
86-73-7	Fluorene	62	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	2900		110	38
90-12-0	1-Methylnaphthalene	88	J	210	23
91-57-6	2-Methylnaphthalene	120	J	210	38
91-20-3	Naphthalene	170	J	210	23
85-01-8	Phenanthrene	1200		43	21
129-00-0	Pyrene	6600		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12027.D
Lab Smp Id: 680-88067-A-15-A Client Smp ID: CV0339B-CS-SP
Inj Date : 12-MAR-2013 20:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-15-a
Misc Info : 680-88067-A-15-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: 27
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.460	Weight Extracted
M	26.969	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1435352	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1132801	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	2063874	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	49782	1.59757	565.9841
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	2170909	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	2013601	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	17851	0.47771	169.2427(Q)
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	8608	0.34534	122.3475
	4 1-Methylnaphthalene	142	4.269	4.263	(1.134)	5627	0.24787	87.8143
	5 Acenaphthylene	152	4.763	4.763	(0.982)	16344	0.35786	126.7830
	9 Fluorene	166	5.192	5.192	(1.070)	6302	0.17554	62.1898
	11 Phenanthrene	178	5.816	5.815	(1.002)	202798	3.39820	1203.9033
	12 Anthracene	178	5.851	5.851	(1.008)	44102	0.75563	267.7010
	13 Carbazole	167	5.957	5.957	(1.026)	14678	0.28291	100.2284

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	1073528	16.4262	5819.4143
16 Pyrene	202	6.827	6.827	(0.882)	1093477	18.7432	6640.2718
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	882590	14.0861	4990.3963
19 Chrysene	228	7.768	7.768	(1.003)	915017	14.5927	5169.8639
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	1340997	25.4832	9028.0982
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	462606	8.56949	3035.9742(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	868452	16.9905	6019.3356
24 Indeno(1,2,3-cd)pyrene	276	10.127	10.127	(1.132)	400255	8.32410	2949.0396(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	135180	2.87417	1018.2513
26 Benzo(g,h,i)perylene	276	10.486	10.486	(1.172)	472172	9.38716	3325.6571

QC Flag Legend

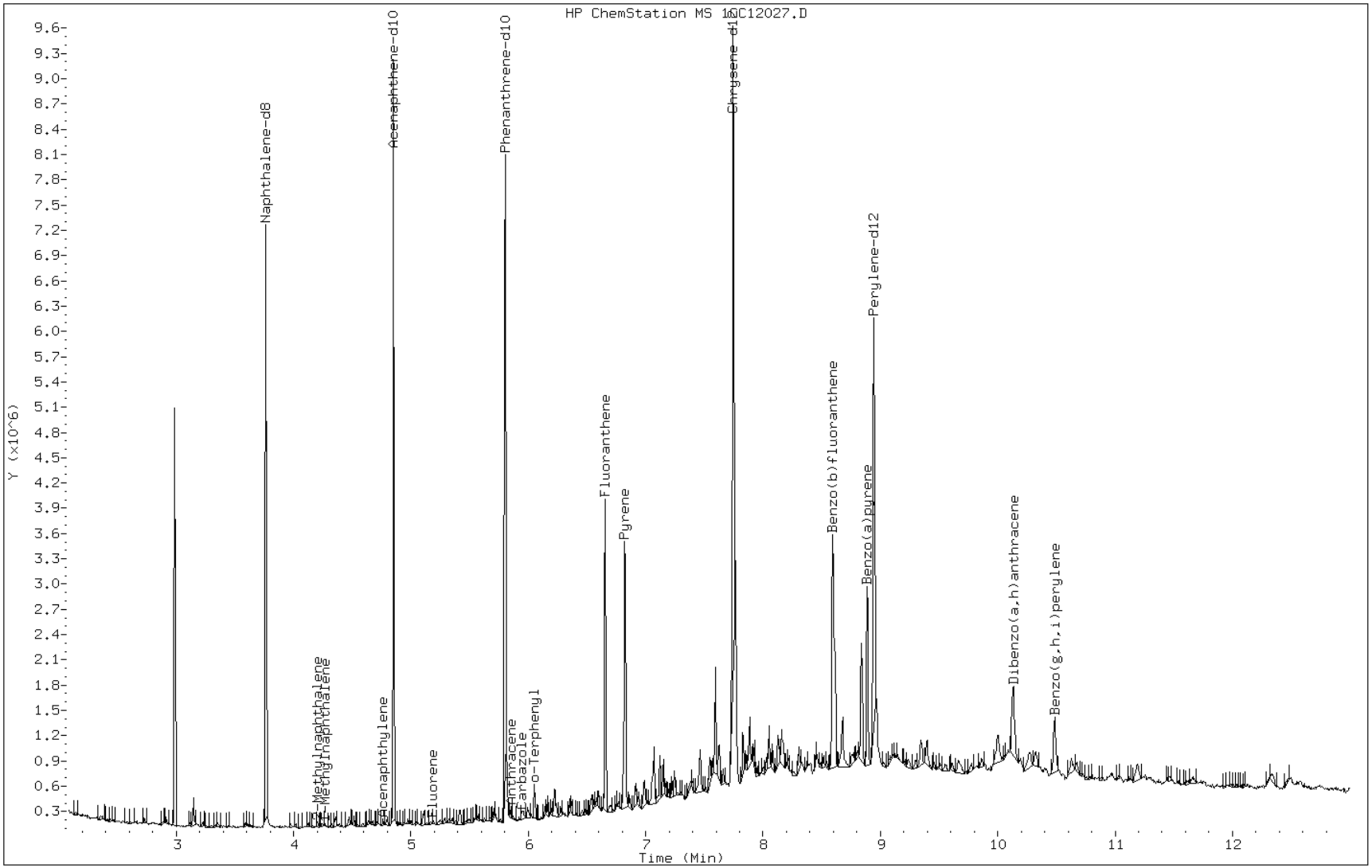
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC



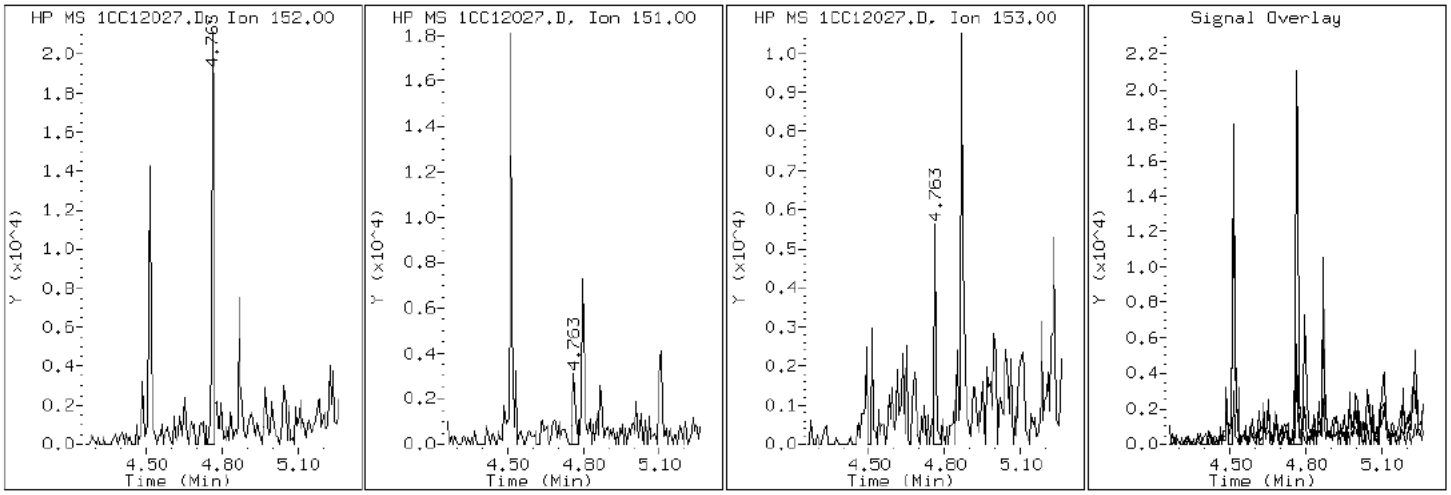
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

5 Acenaphthylene



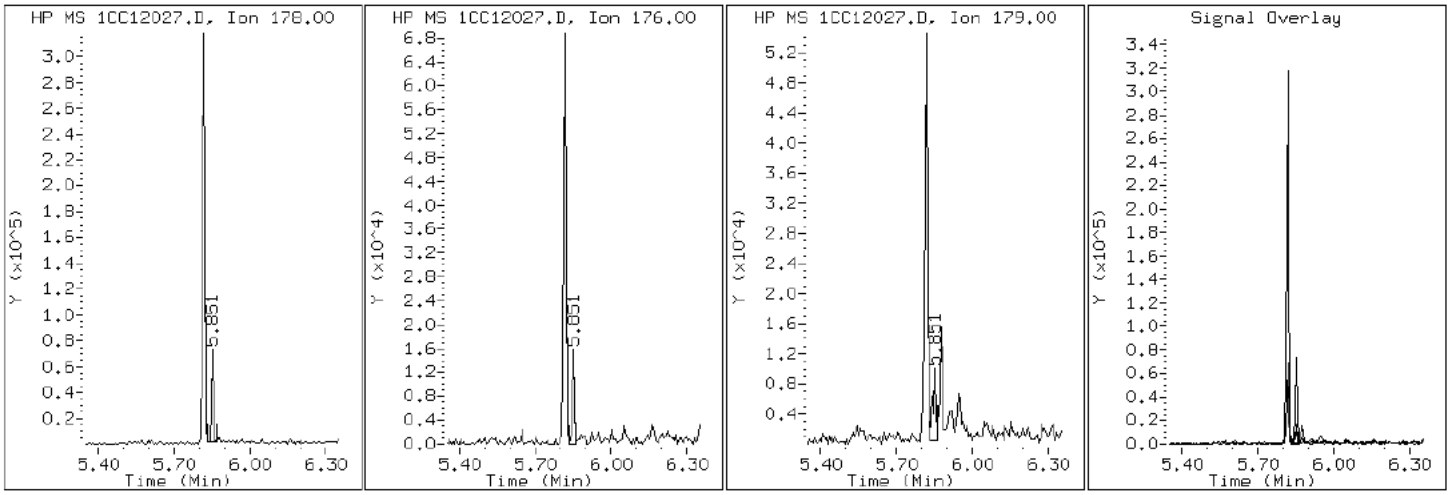
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

12 Anthracene



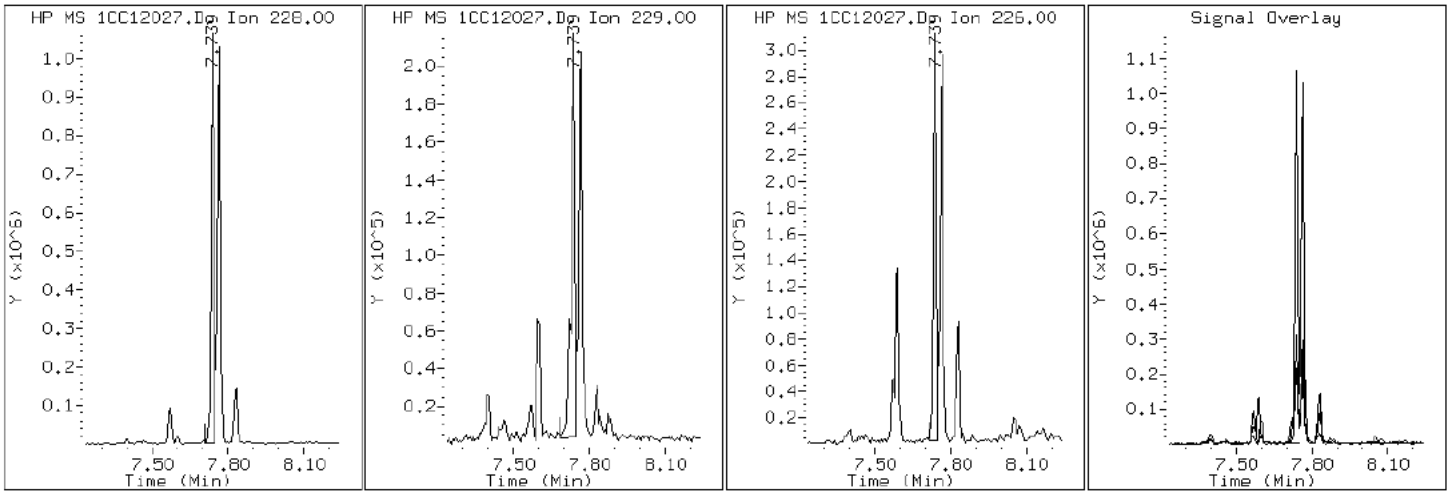
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

17 Benzo(a)anthracene



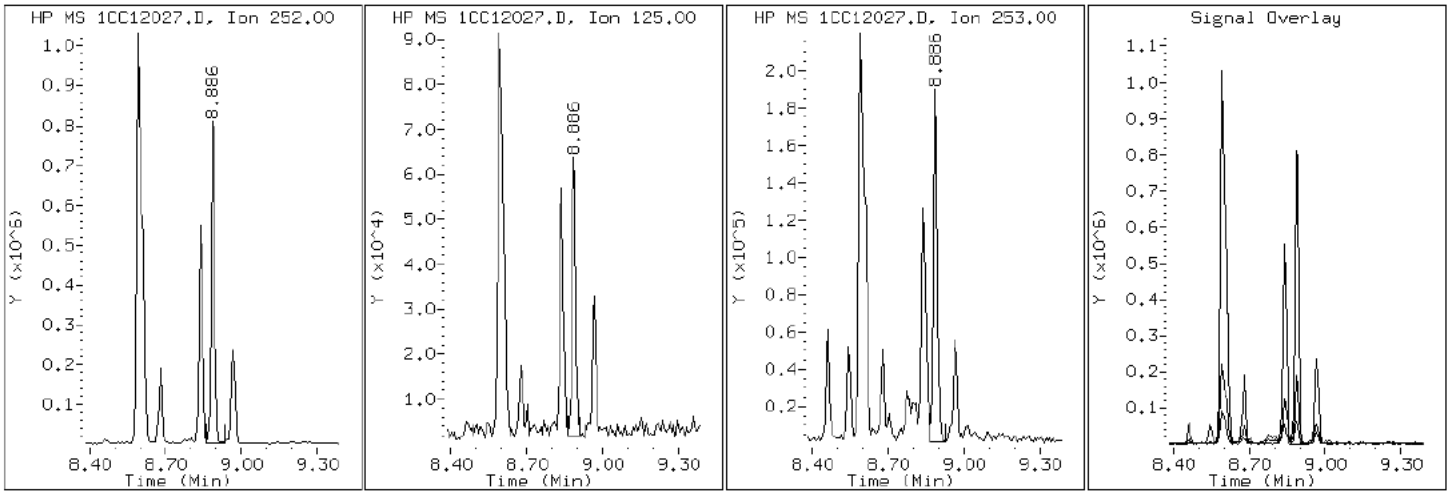
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

22 Benzo(a)pyrene



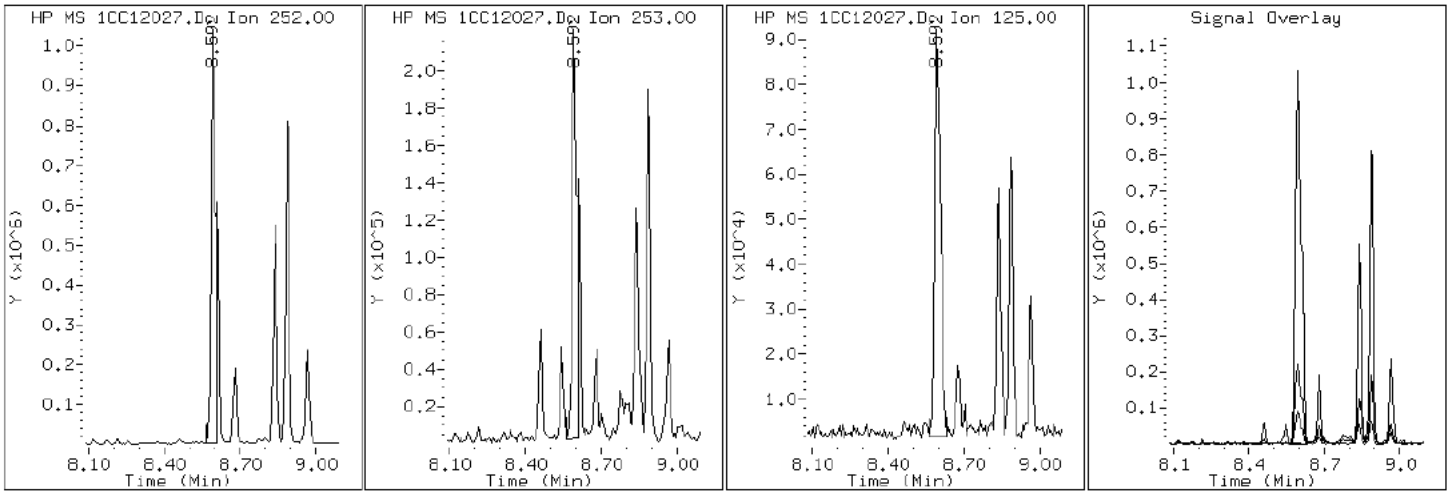
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



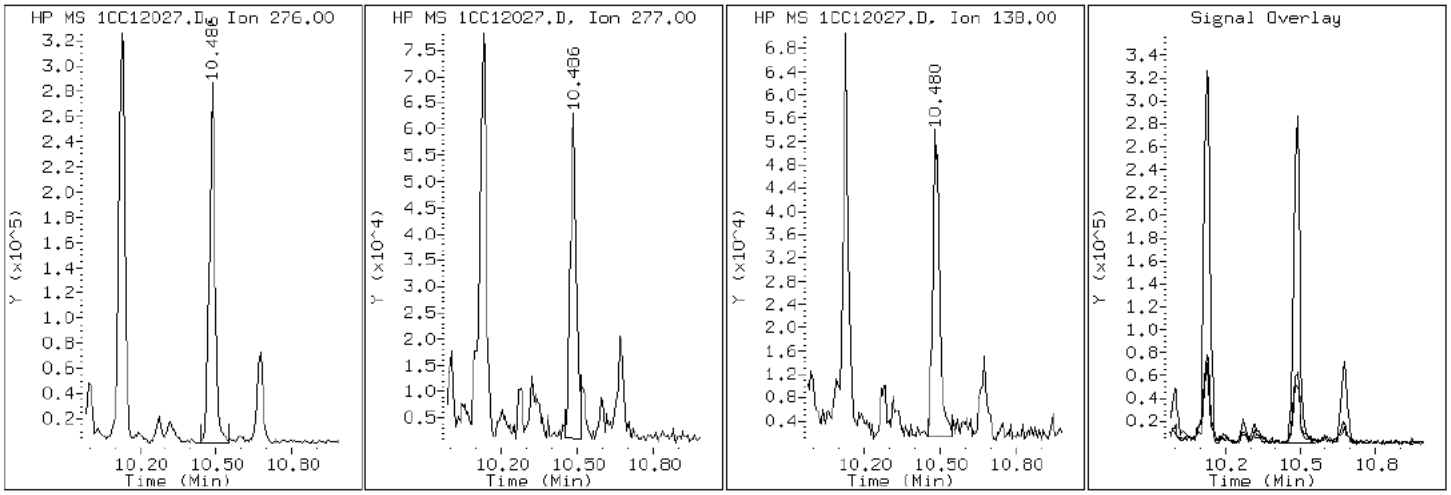
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



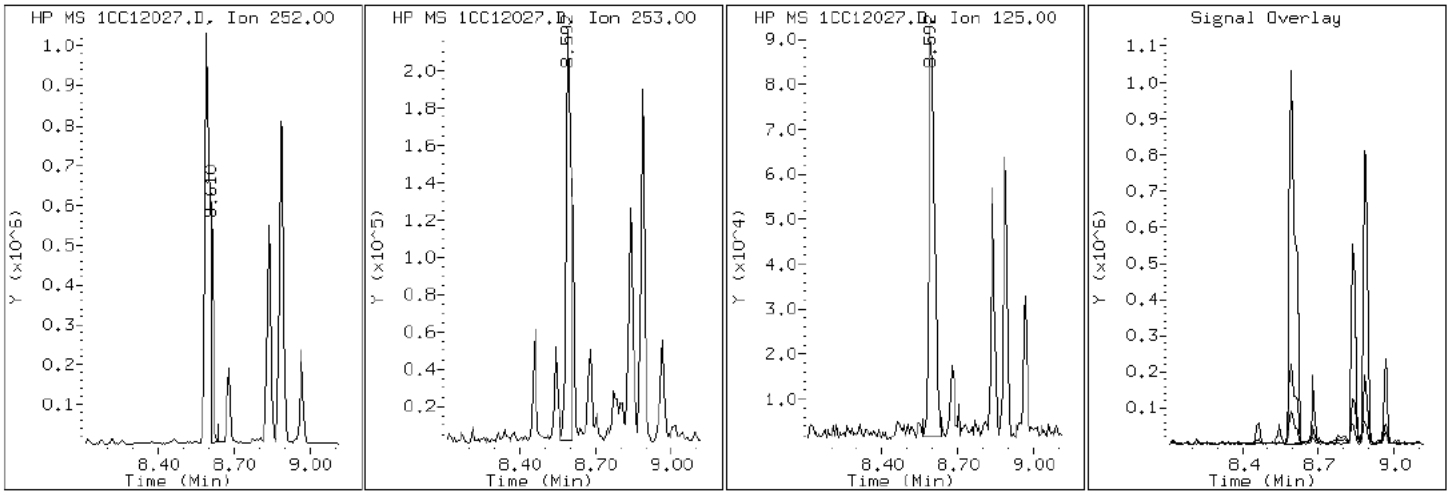
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



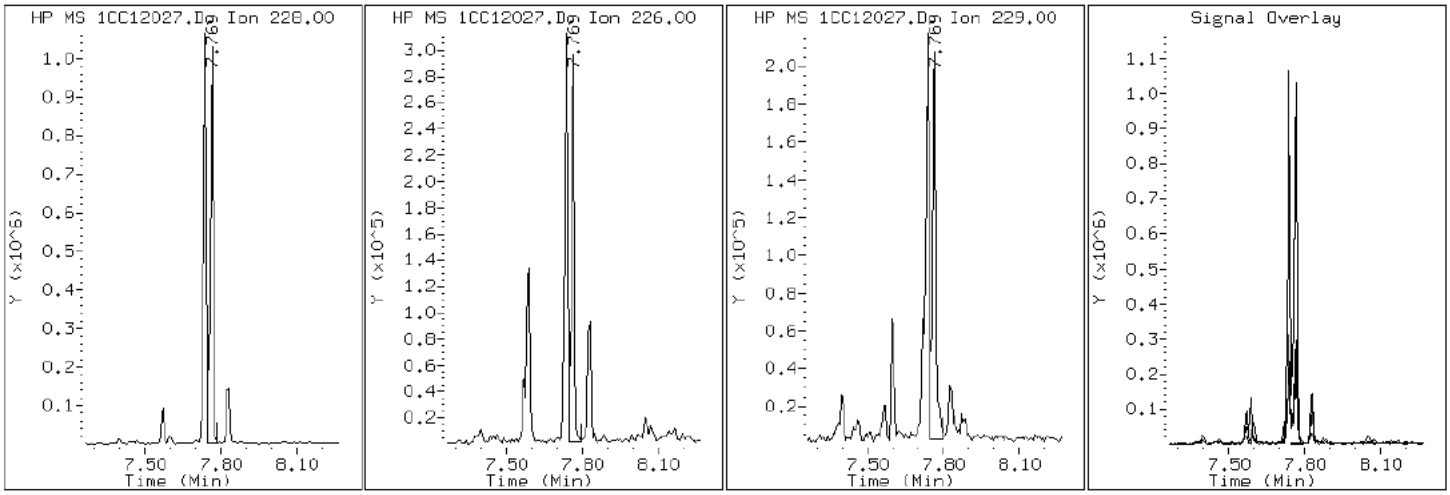
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

19 Chrysene



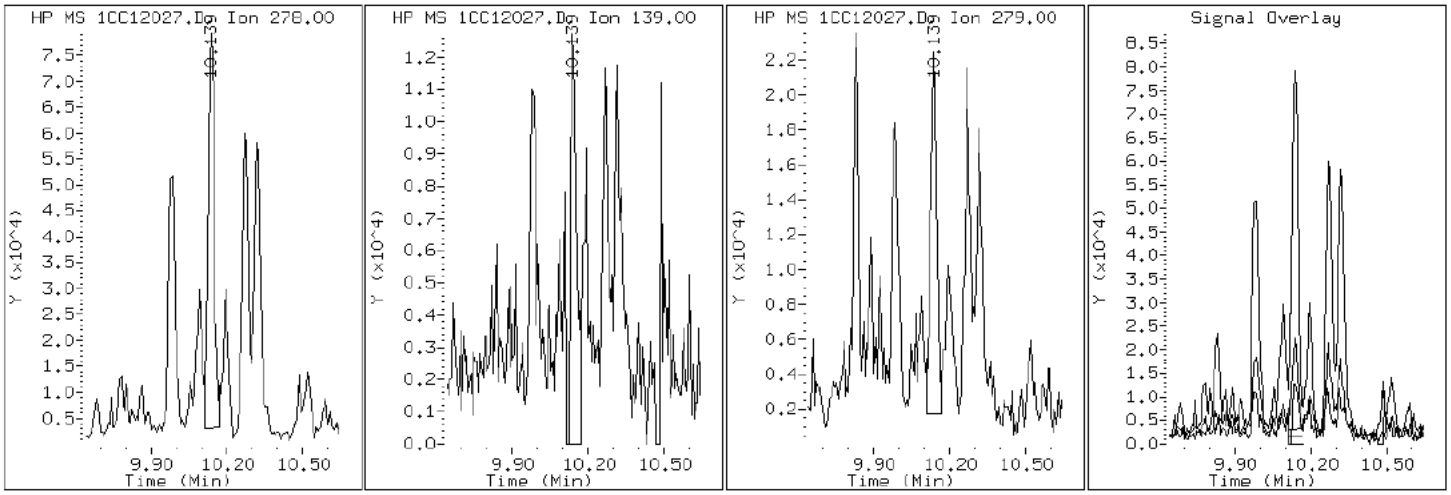
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



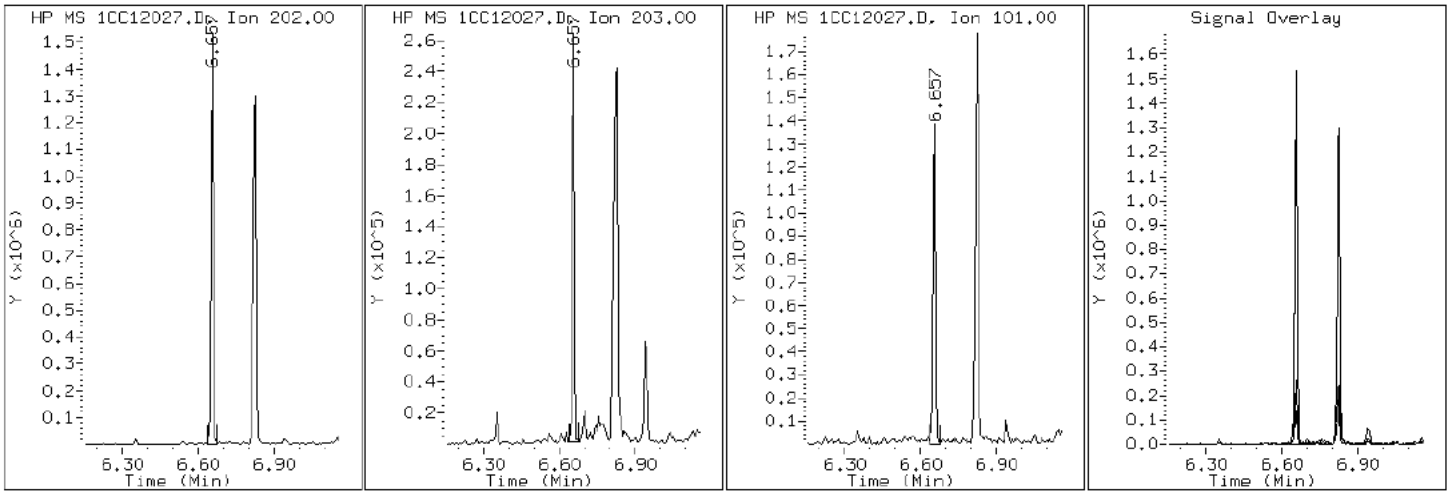
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

15 Fluoranthene



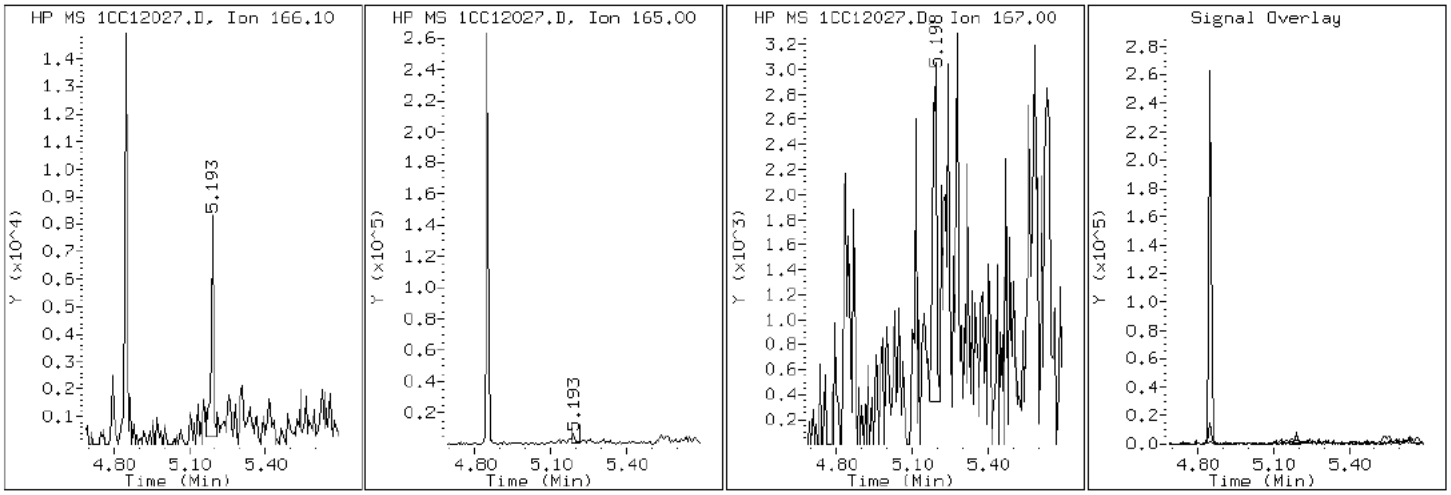
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

9 Fluorene



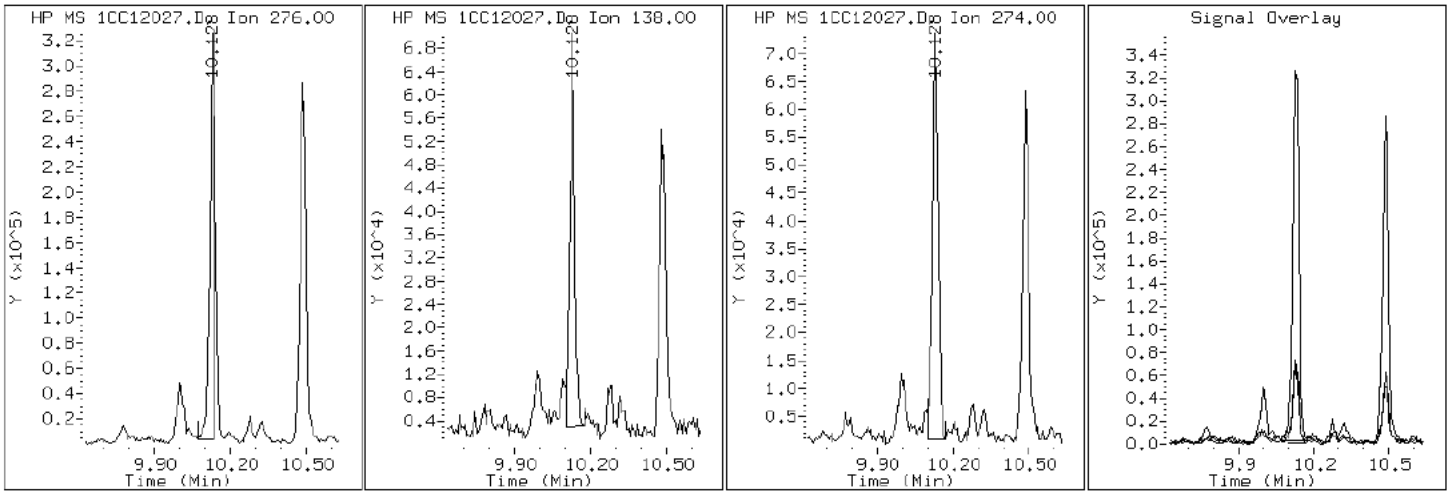
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

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



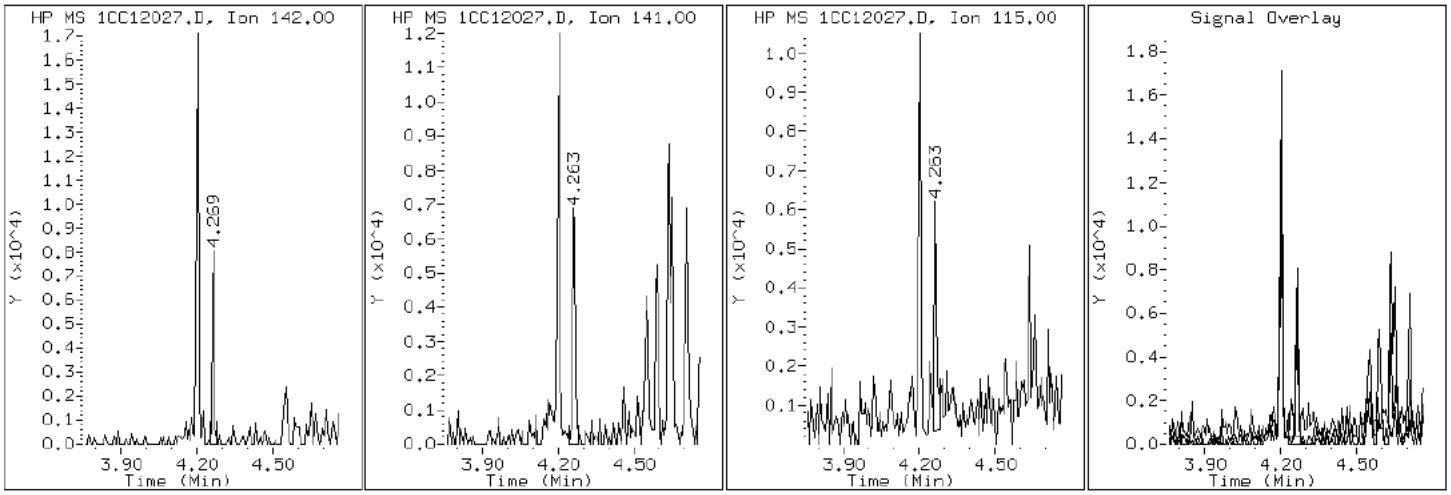
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

4 1-Methylnaphthalene



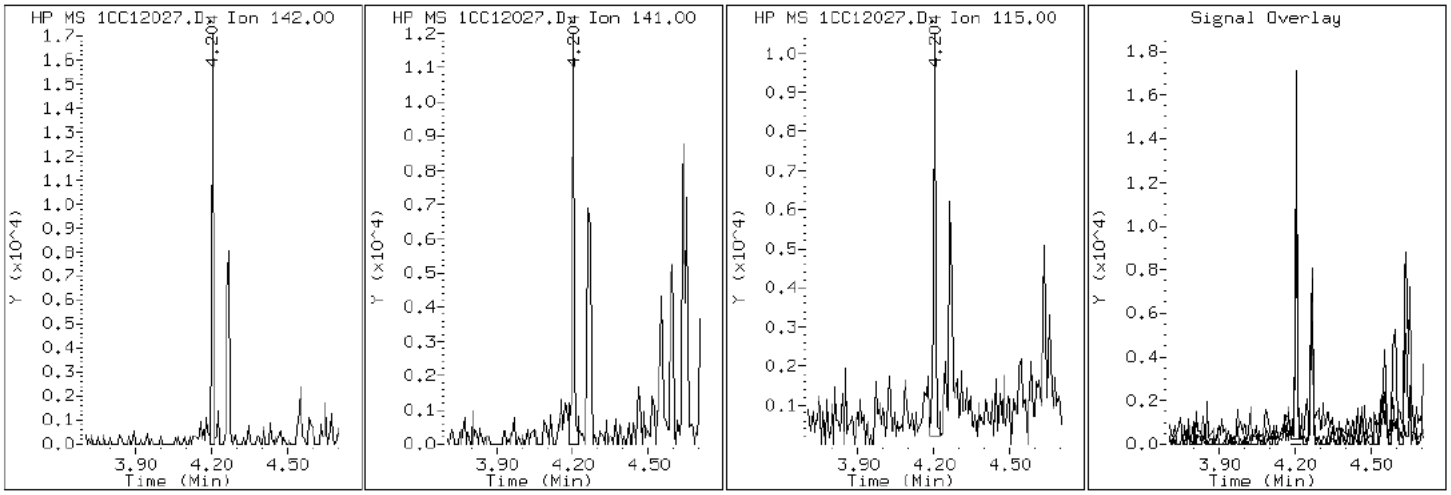
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

3 2-Methylnaphthalene



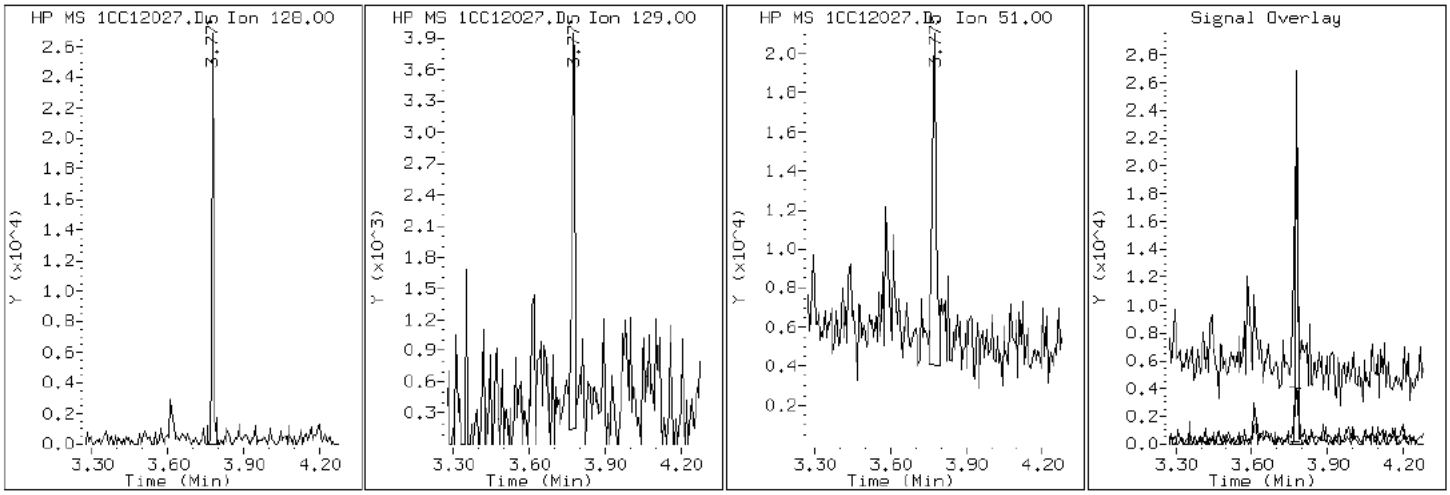
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

2 Naphthalene



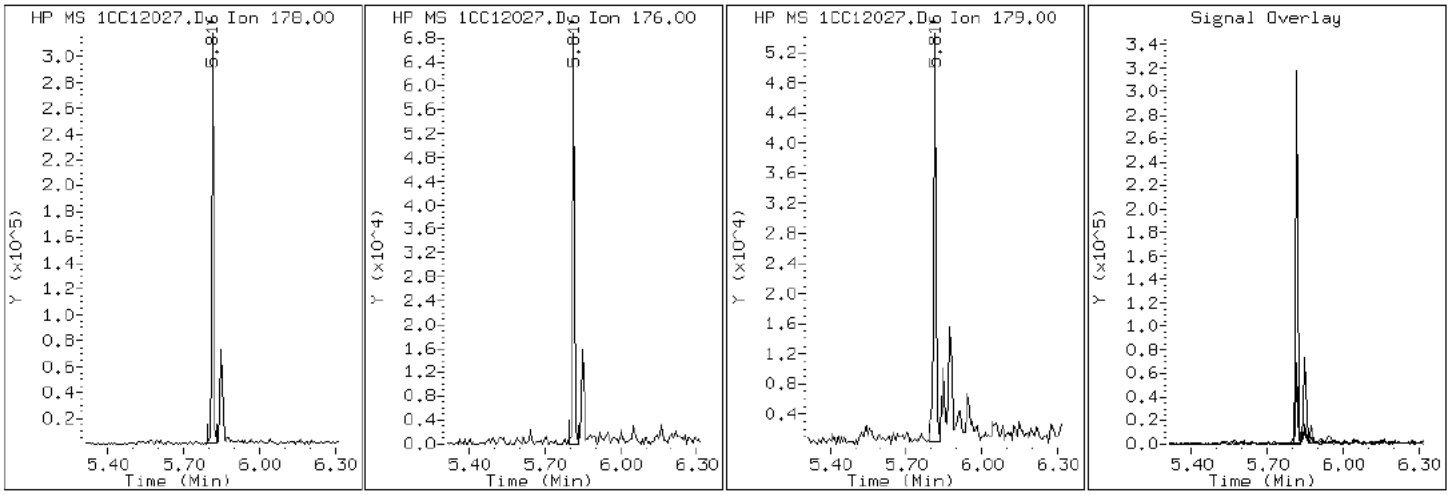
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

11 Phenanthrene



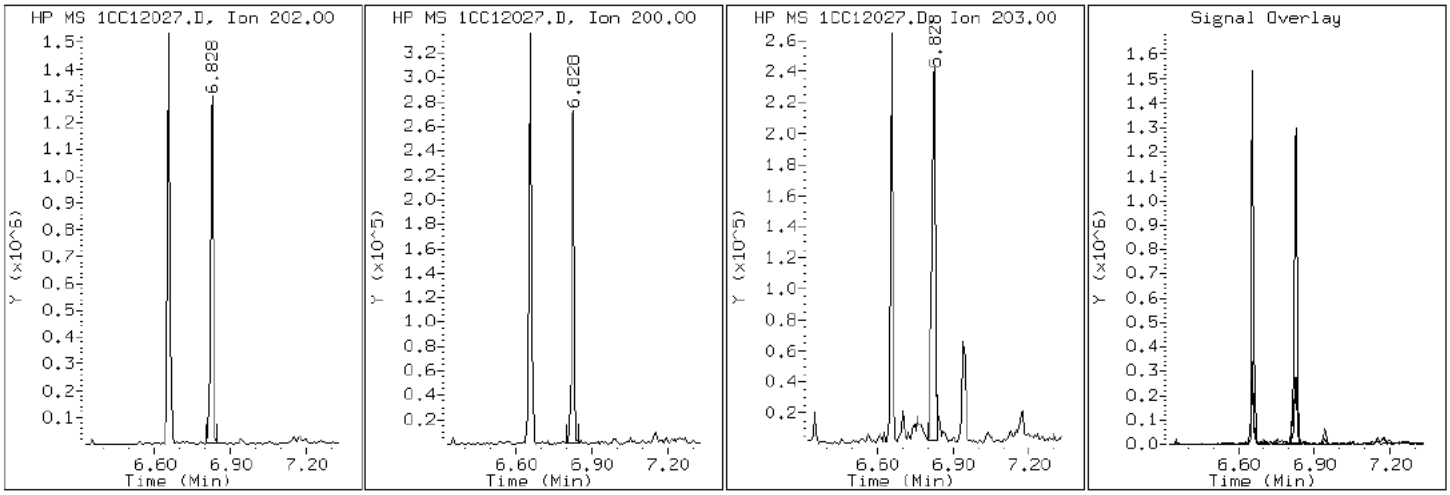
Data File: 1CC12027.D

Date: 12-MAR-2013 20:10

Client ID: CV0339B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12027.D
Inj. Date and Time: 12-MAR-2013 20:10
Instrument ID: BSMC5973.i
Client ID: CV0339B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

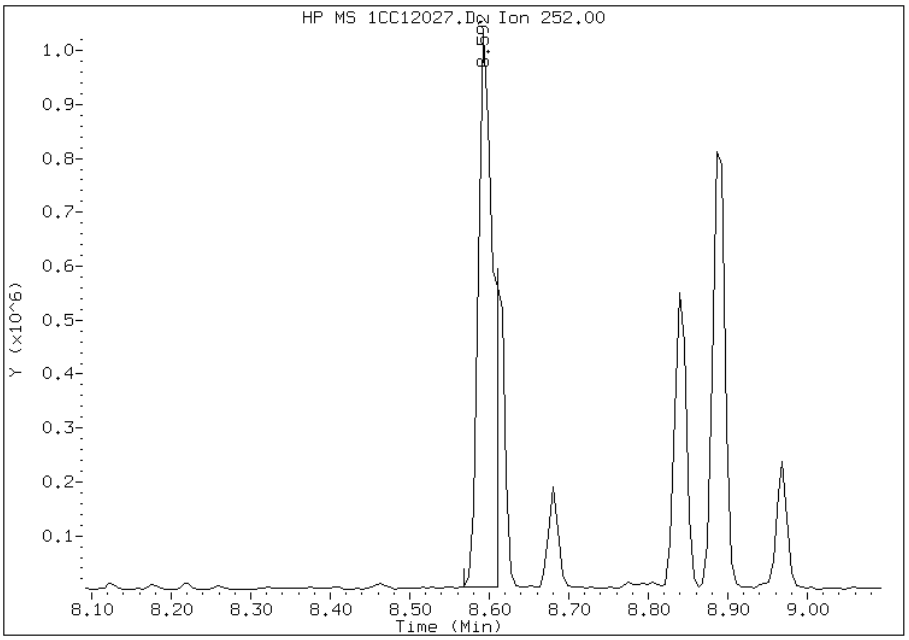
Processing Integration Results

RT: 8.59

Response: 1340997

Amount: 25

Conc: 8801



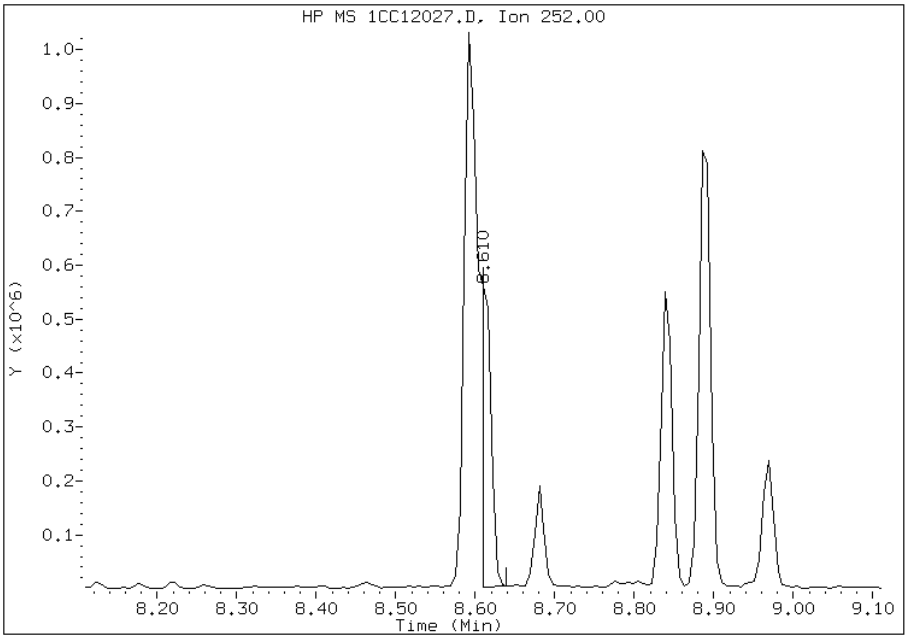
Manual Integration Results

RT: 8.61

Response: 462606

Amount: 9

Conc: 3036



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:13
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CC12027.D
Inj. Date and Time: 12-MAR-2013 20:10
Instrument ID: BSMC5973.i
Client ID: CV0339B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

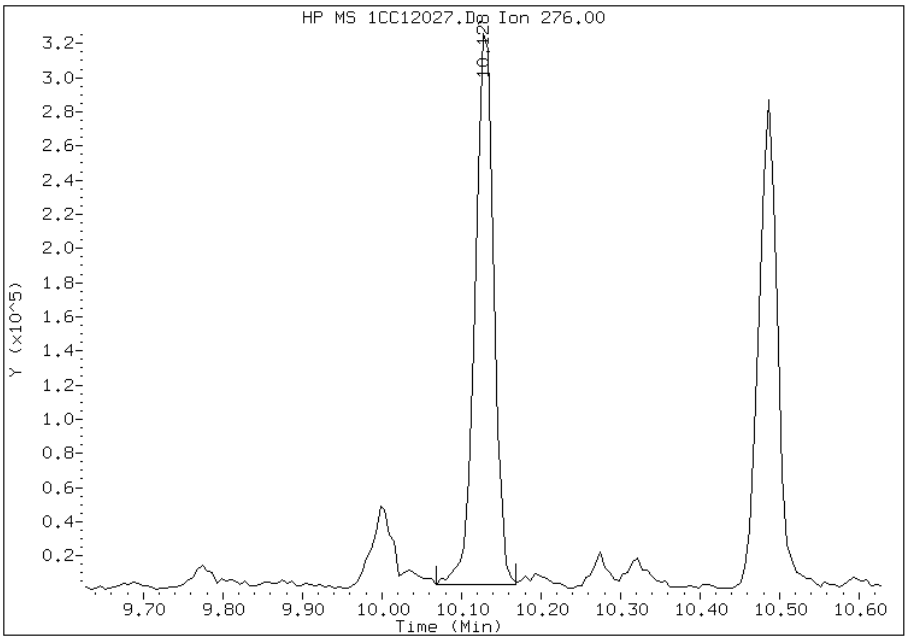
Processing Integration Results

RT: 10.13

Response: 524917

Amount: 11

Conc: 3868



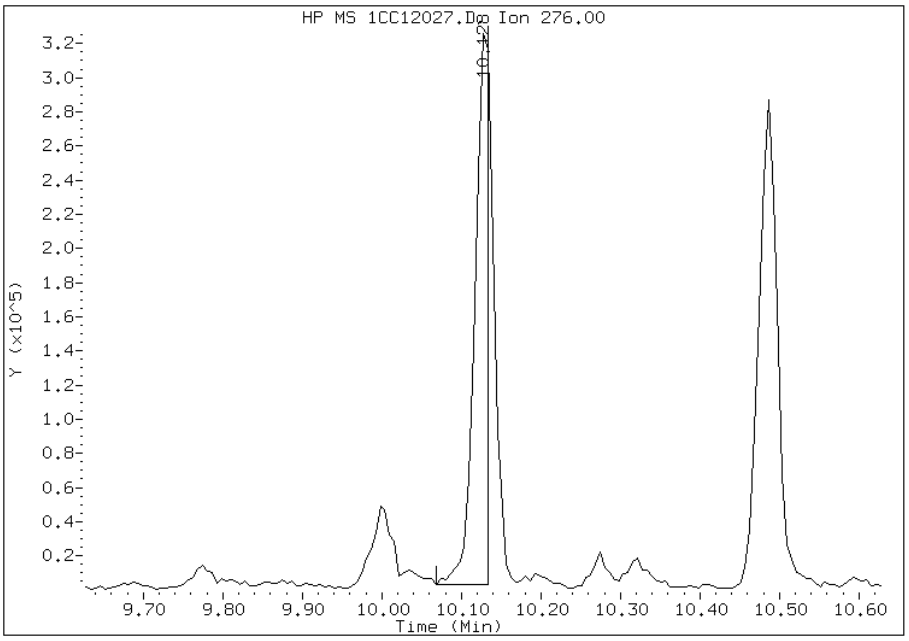
Manual Integration Results

RT: 10.13

Response: 400255

Amount: 8

Conc: 2949



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0388A-CS | Lab Sample ID: 680-88067-16

Matrix: Solid | Lab File ID: 1CC12028.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:10

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

Sample wt/vol: 14.96(g) | Date Analyzed: 03/12/2013 20:28

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

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

% Moisture: 29.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	J	570	110
208-96-8	Acenaphthylene	54	J	230	29
120-12-7	Anthracene	270		48	24
56-55-3	Benzo[a]anthracene	780		46	22
50-32-8	Benzo[a]pyrene	650		59	30
205-99-2	Benzo[b]fluoranthene	1000		70	35
191-24-2	Benzo[g,h,i]perylene	400		110	25
207-08-9	Benzo[k]fluoranthene	410		46	21
218-01-9	Chrysene	760		51	26
53-70-3	Dibenz(a,h)anthracene	170		110	23
206-44-0	Fluoranthene	1200		110	23
86-73-7	Fluorene	140		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	410		110	41
90-12-0	1-Methylnaphthalene	330		230	25
91-57-6	2-Methylnaphthalene	350		230	41
91-20-3	Naphthalene	280		230	25
85-01-8	Phenanthrene	1300		46	22
129-00-0	Pyrene	1200		110	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12028.D
Lab Smp Id: 680-88067-A-16-A Client Smp ID: CV0388A-CS
Inj Date : 12-MAR-2013 20:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-16-a
Misc Info : 680-88067-A-16-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: 28
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	29.710	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.763	3.763	(1.000)	1366318	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1048370	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1886866	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	57111	2.00471	762.5819
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	1974042	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	1862851	40.0000	
2 Naphthalene	128	3.775	3.774	(1.003)	25856	0.72690	276.5082
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	21520	0.90698	345.0123
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	18468	0.85462	325.0932
5 Acenaphthylene	152	4.763	4.763	(0.982)	5963	0.14108	53.6660
7 Acenaphthene	154	4.869	4.868	(1.004)	10530	0.40082	152.4693
9 Fluorene	166	5.192	5.192	(1.070)	12274	0.36942	140.5267
11 Phenanthrene	178	5.816	5.815	(1.002)	187160	3.43036	1304.8955
12 Anthracene	178	5.851	5.851	(1.008)	37448	0.70181	266.9655

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.957	5.957	(1.026)	17048	0.35942	136.7201
15 Fluoranthene	202	6.657	6.657	(1.147)	192871	3.22799	1227.9130
16 Pyrene	202	6.821	6.827	(0.881)	169760	3.20003	1217.2770
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	117531	2.06286	784.7048
19 Chrysene	228	7.762	7.768	(1.002)	114270	2.00412	762.3599
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	131374	2.69855	1026.5162(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	54183	1.08493	412.7031(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	80794	1.70858	649.9347
24 Indeno(1,2,3-cd)pyrene	276	10.127	10.127	(1.132)	47794	1.07441	408.7004(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	19264	0.44273	168.4135
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	48596	1.04431	397.2516

QC Flag Legend

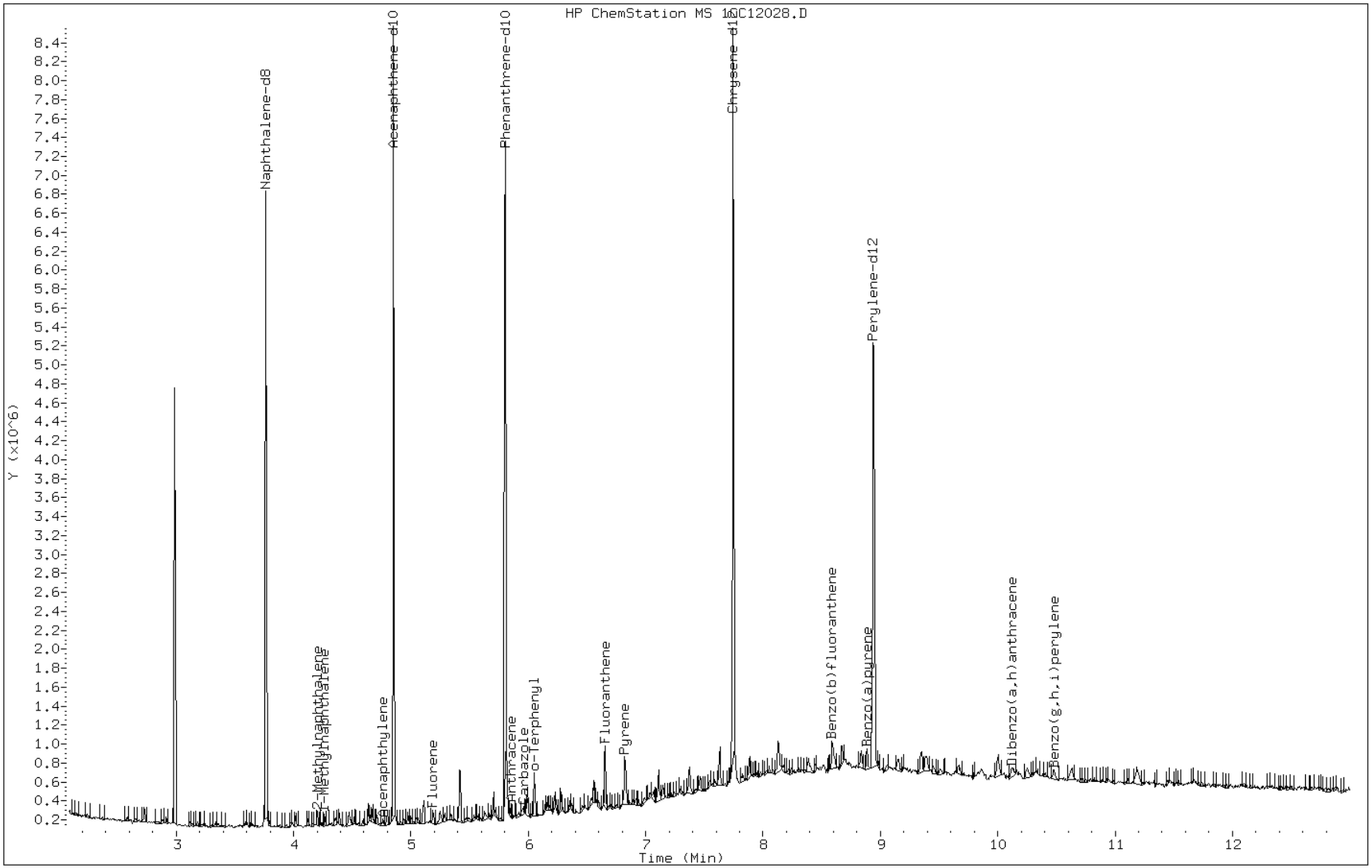
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC



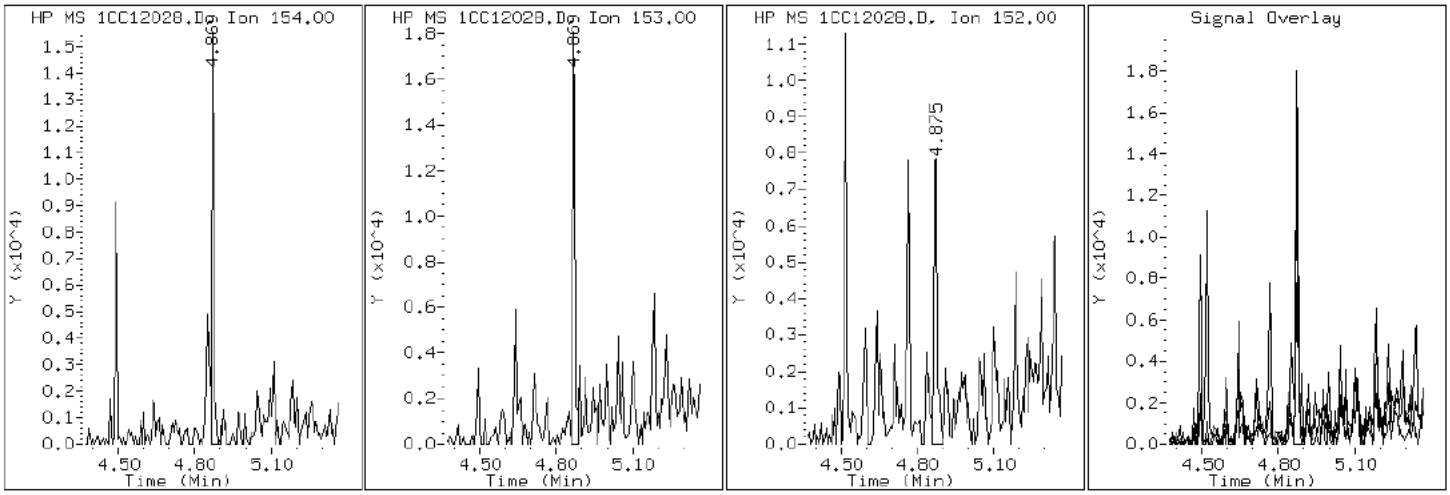
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

7 Acenaphthene



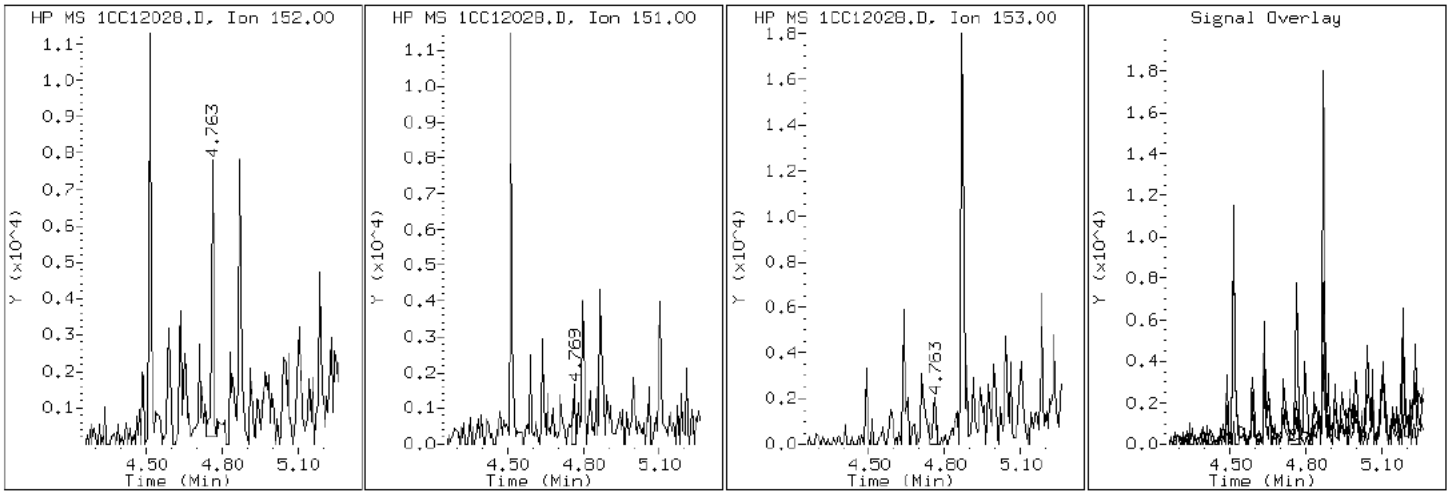
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

5 Acenaphthylene



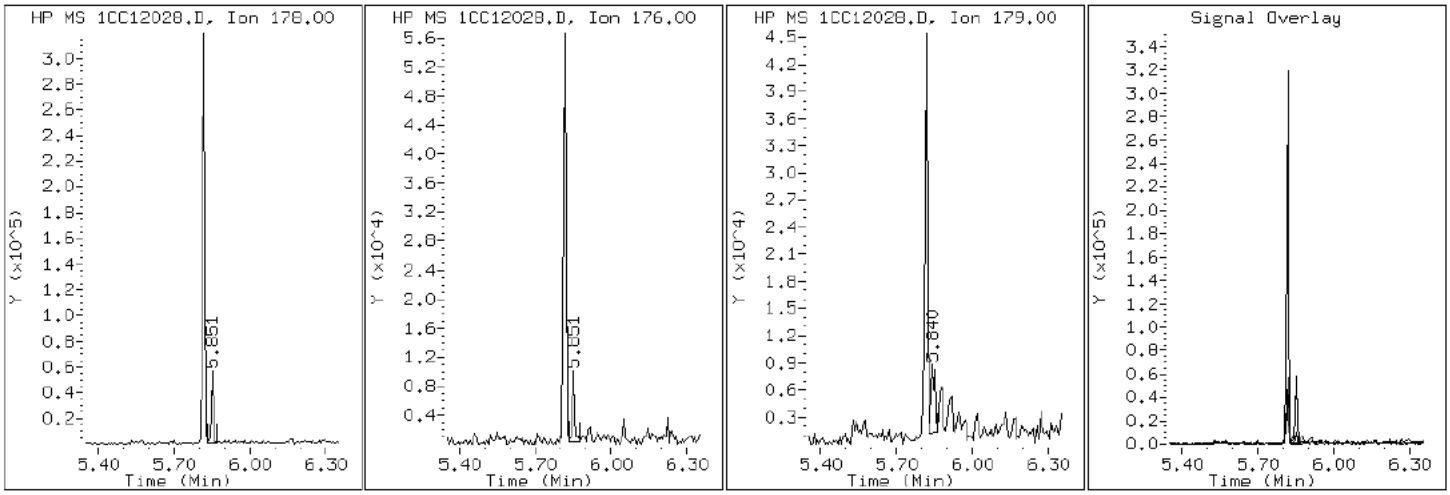
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

12 Anthracene



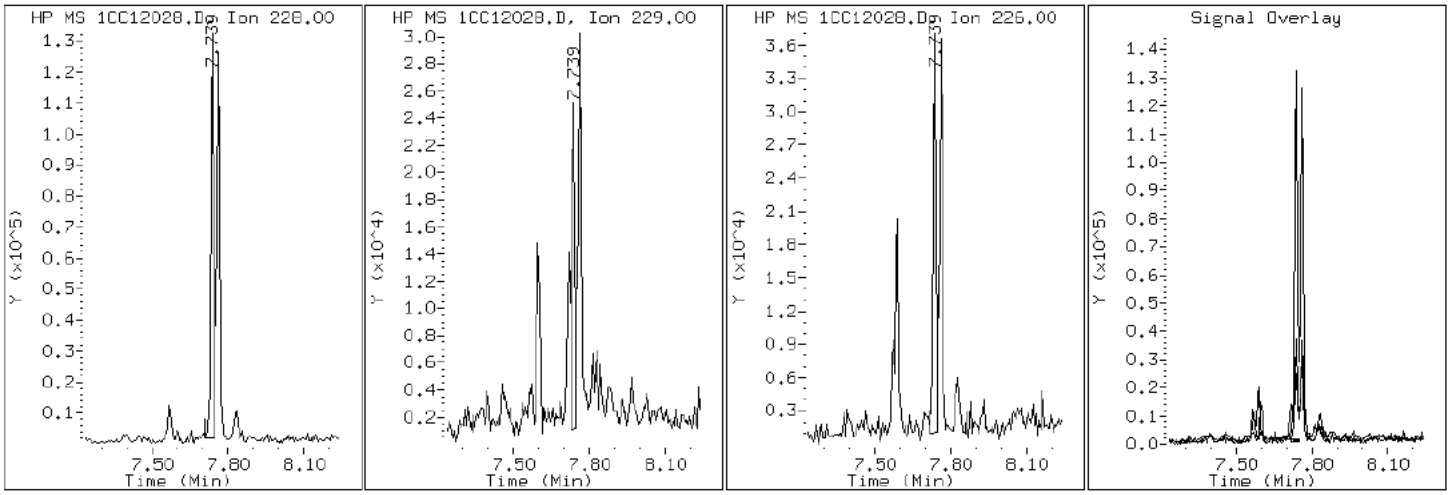
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

17 Benzo(a)anthracene



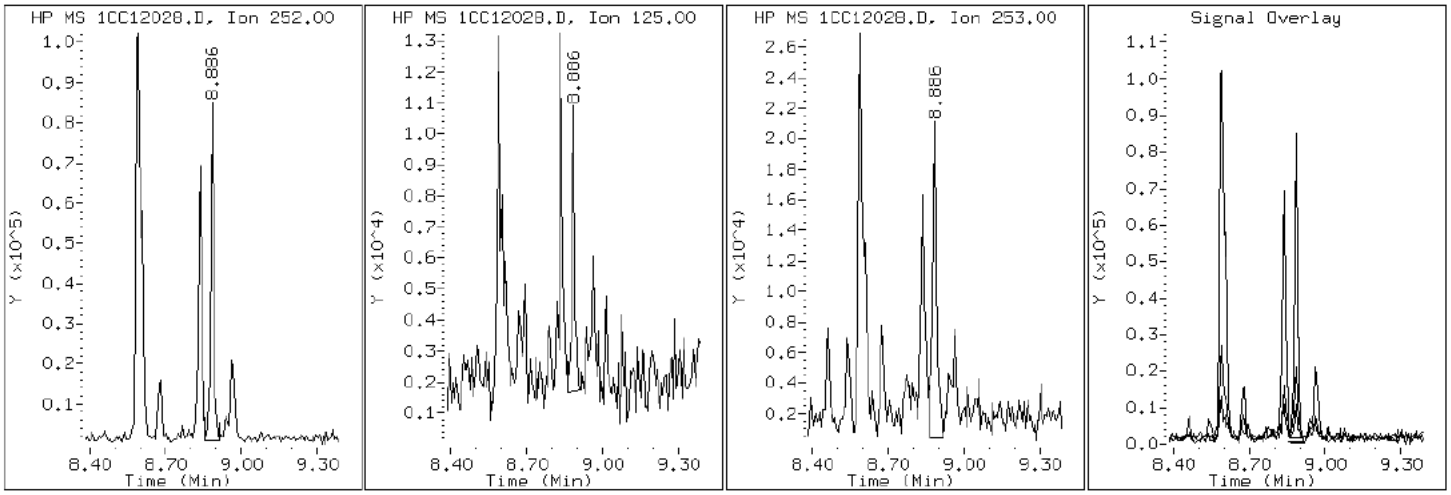
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

22 Benzo(a)pyrene



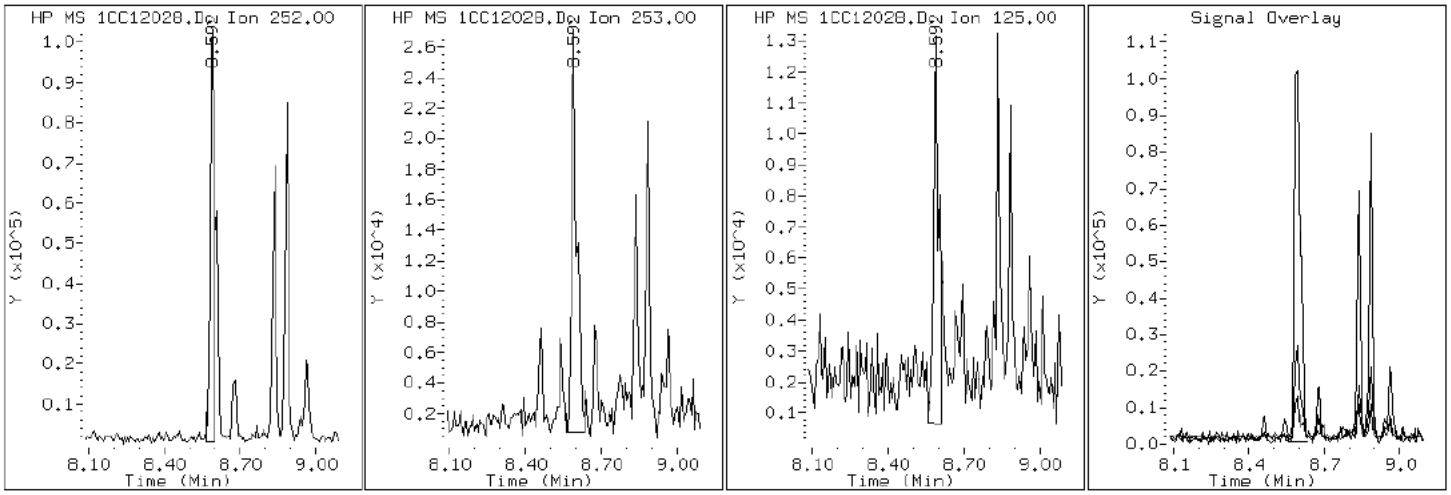
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



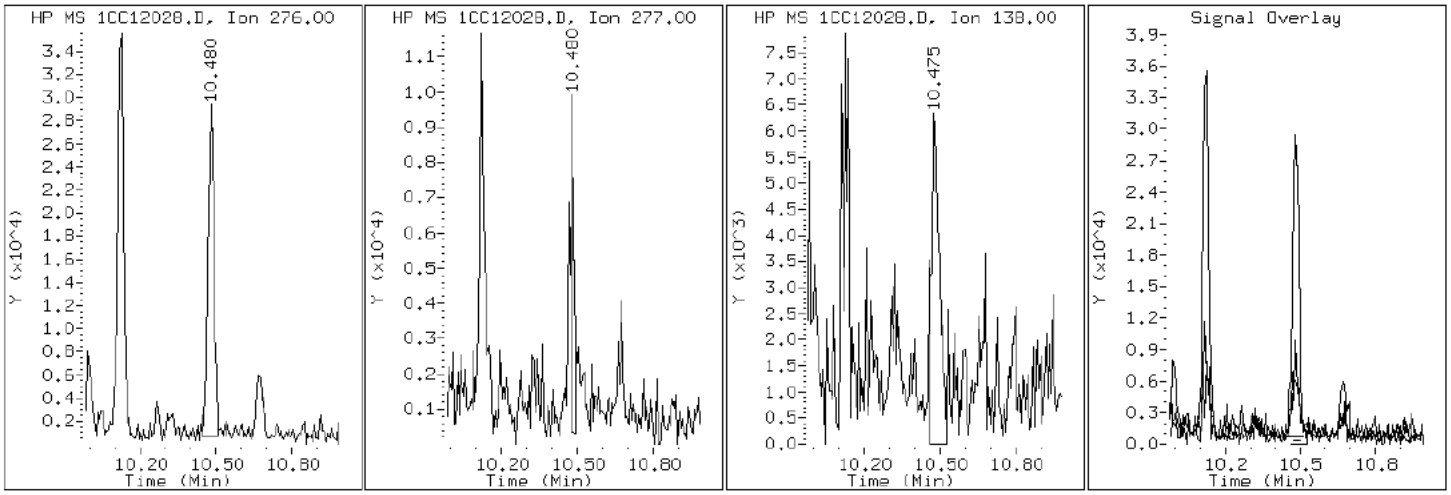
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



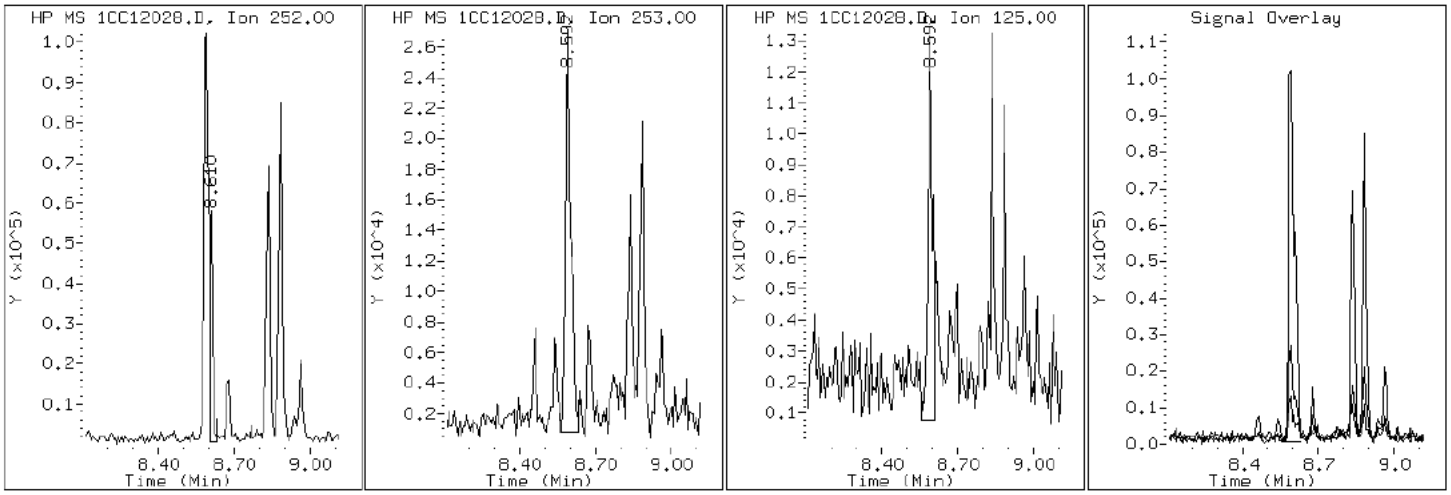
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



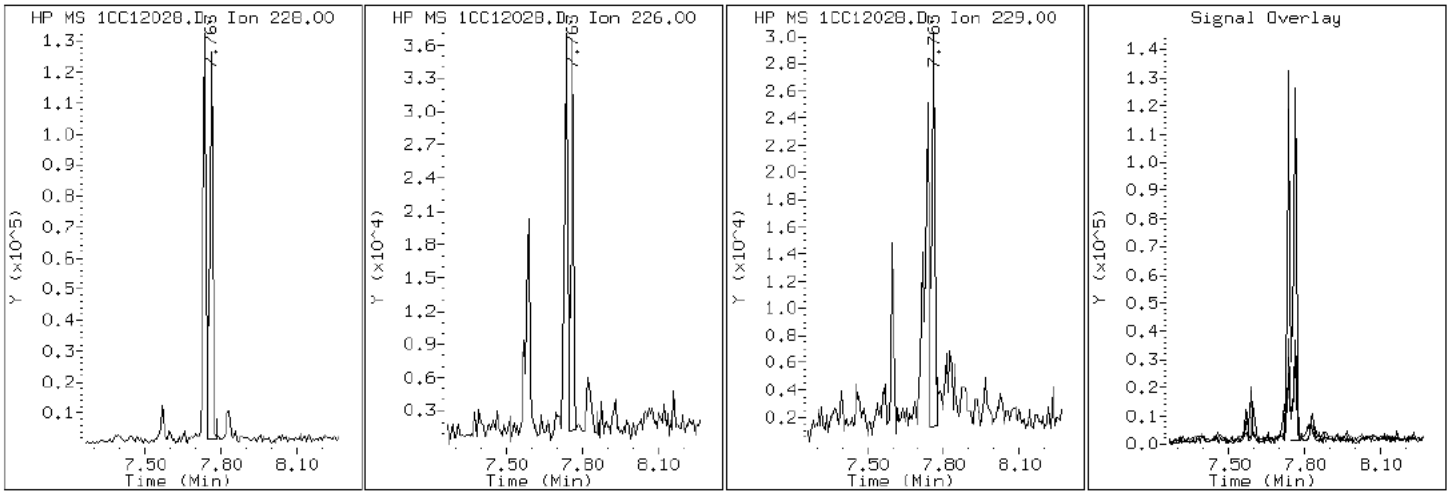
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

19 Chrysene



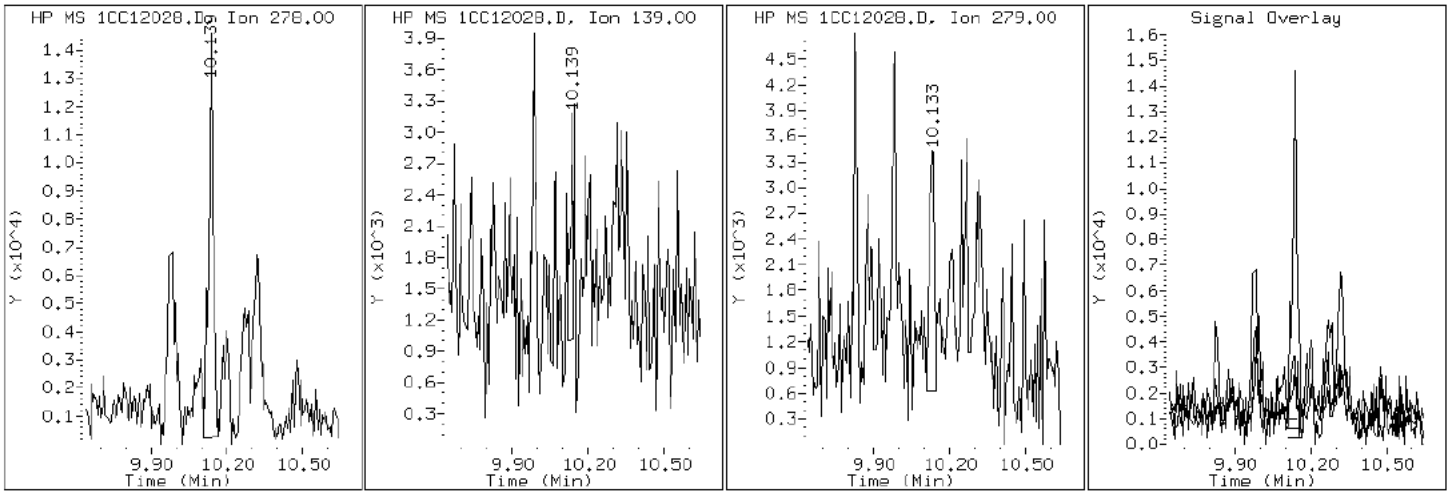
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



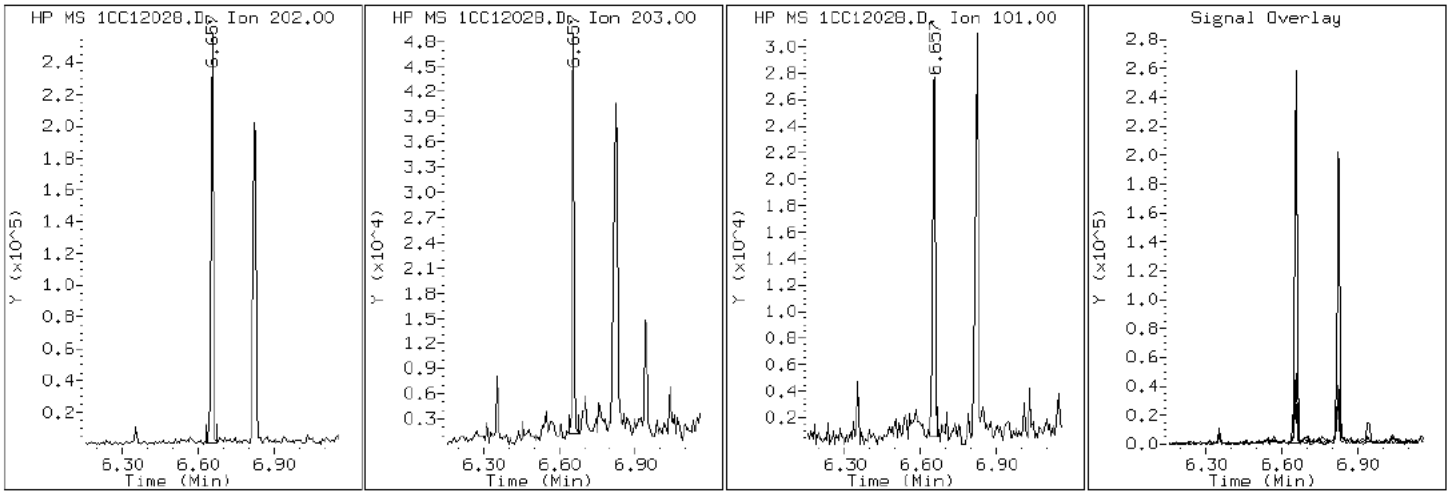
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

15 Fluoranthene



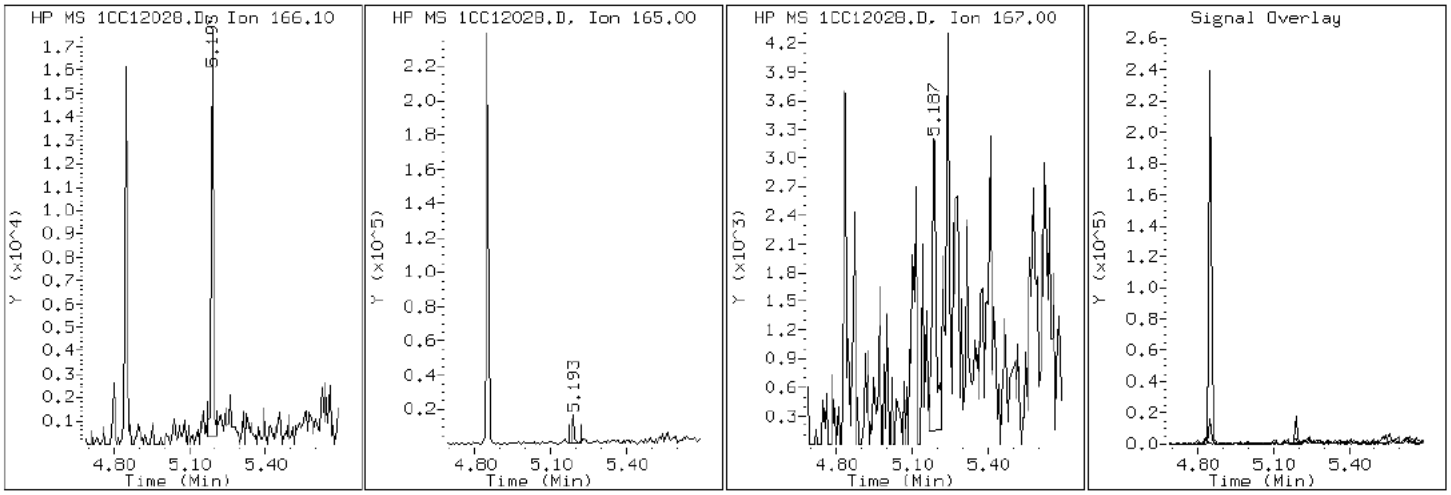
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

9 Fluorene



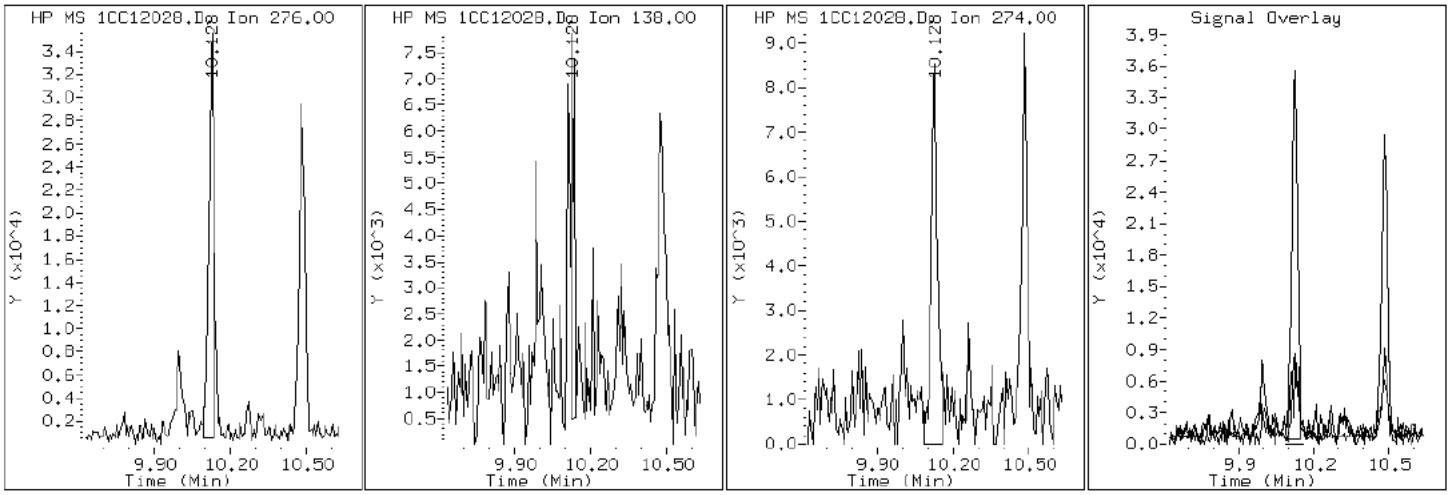
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

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



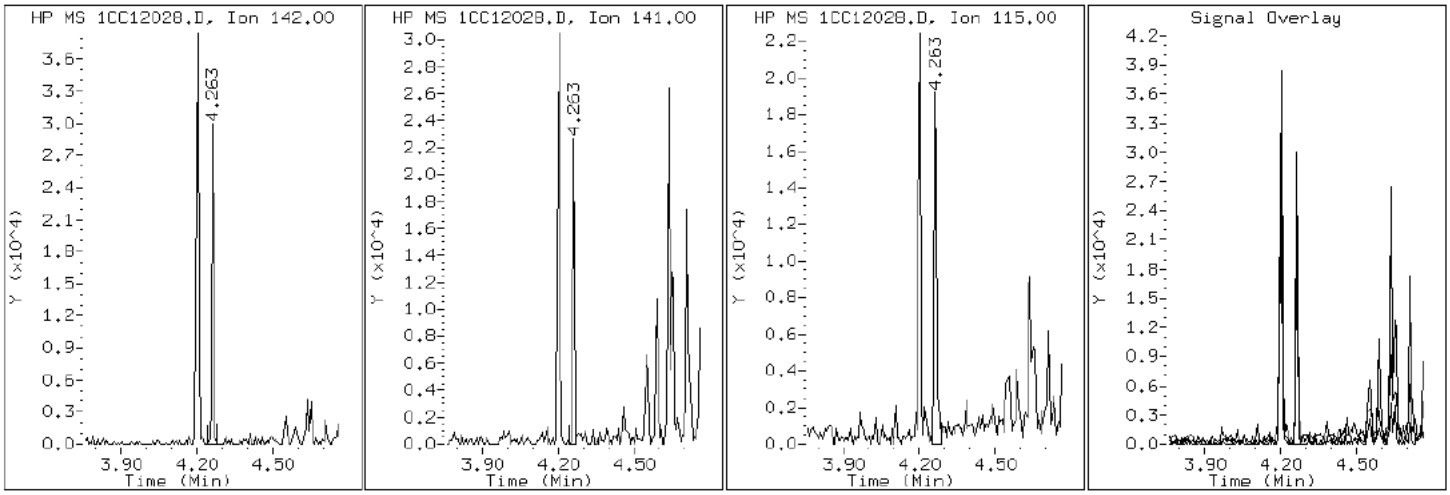
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

4 1-Methylnaphthalene



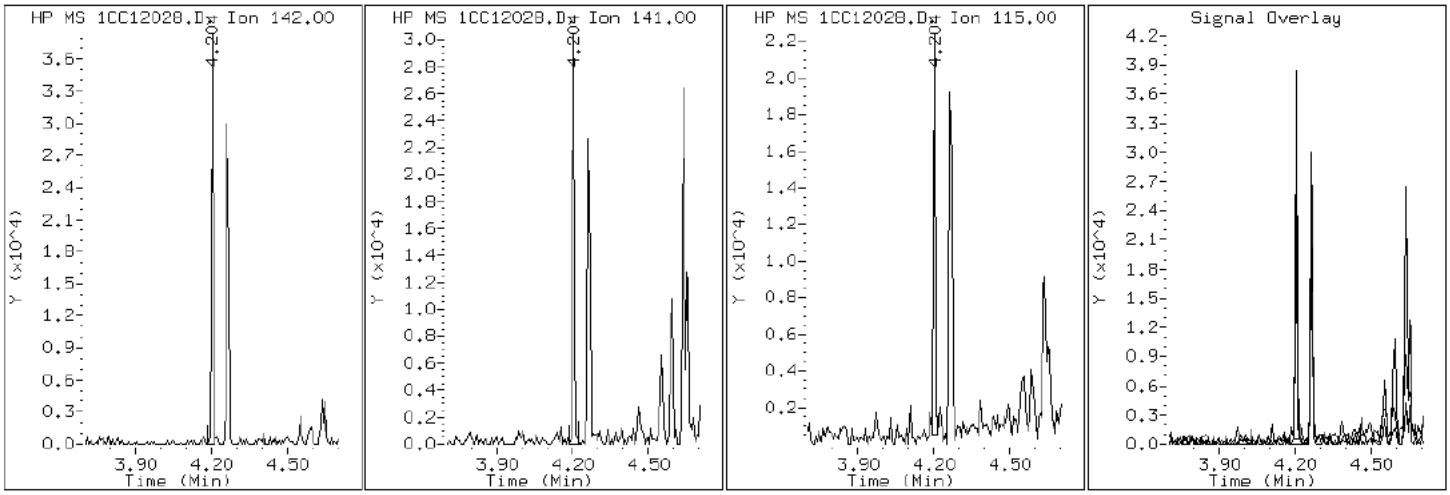
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

3 2-Methylnaphthalene



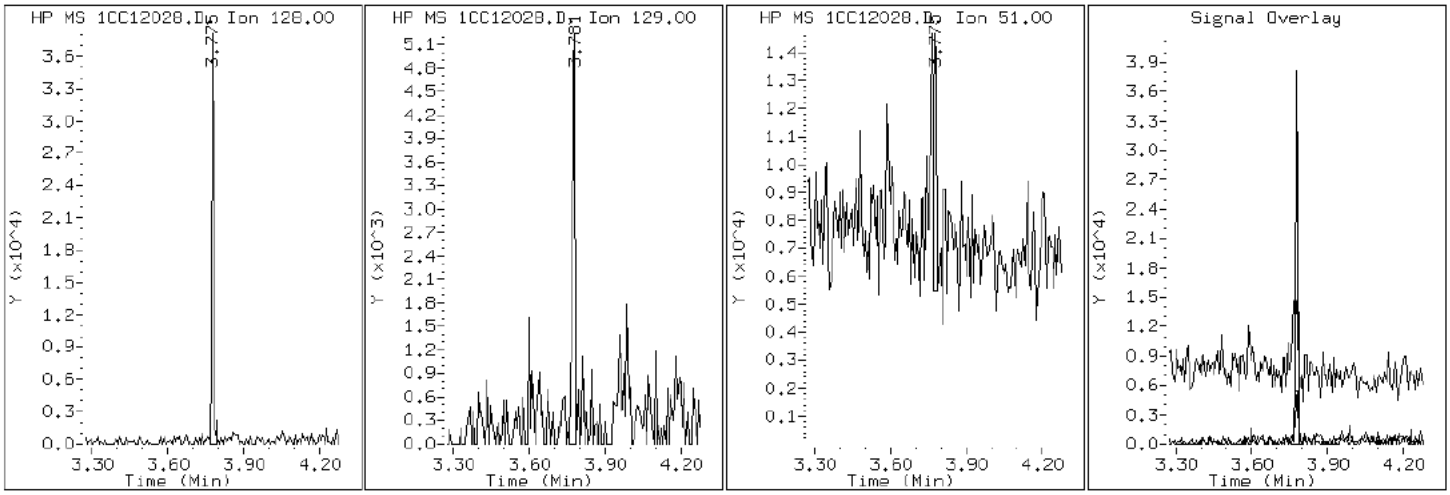
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

2 Naphthalene



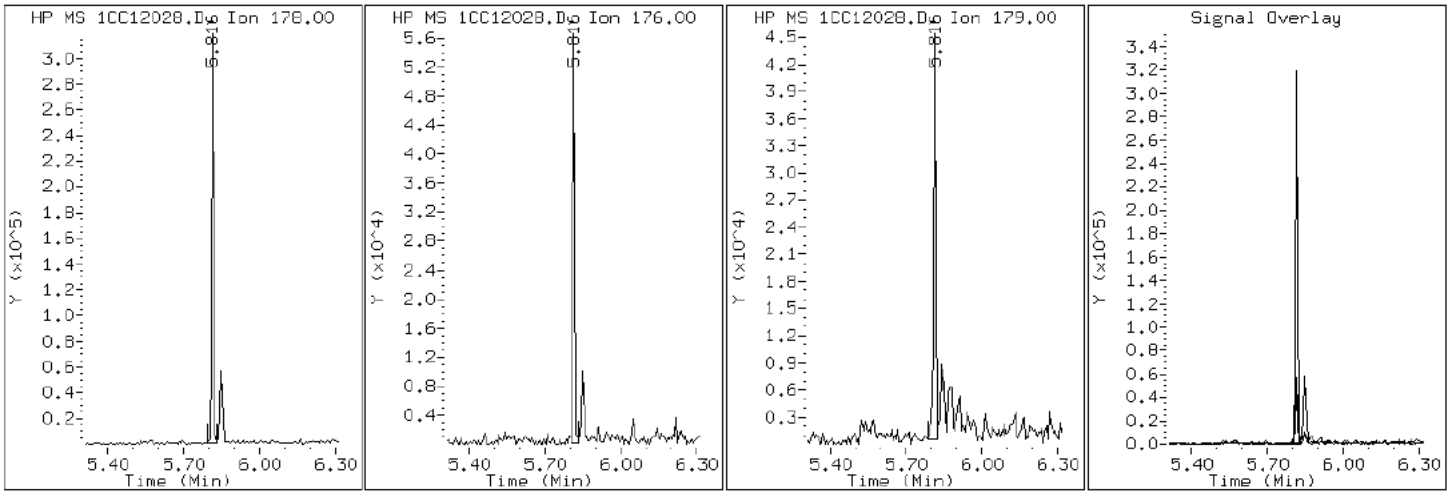
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

11 Phenanthrene



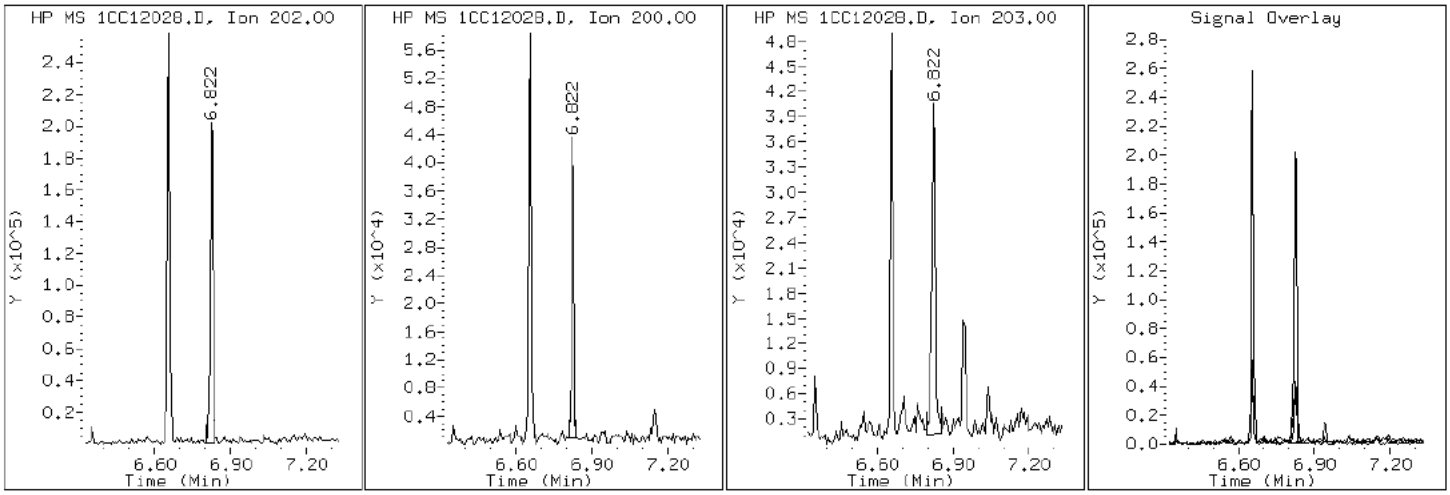
Data File: 1CC12028.D

Date: 12-MAR-2013 20:28

Client ID: CV0388A-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12028.D
Inj. Date and Time: 12-MAR-2013 20:28
Instrument ID: BSMC5973.i
Client ID: CV0388A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

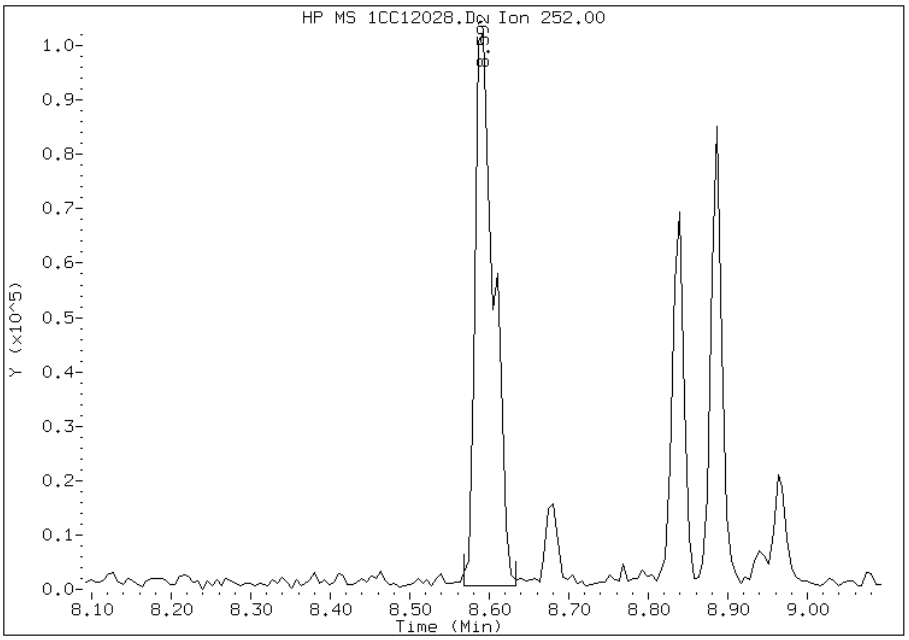
Processing Integration Results

RT: 8.59

Response: 167762

Amount: 3

Conc: 1311



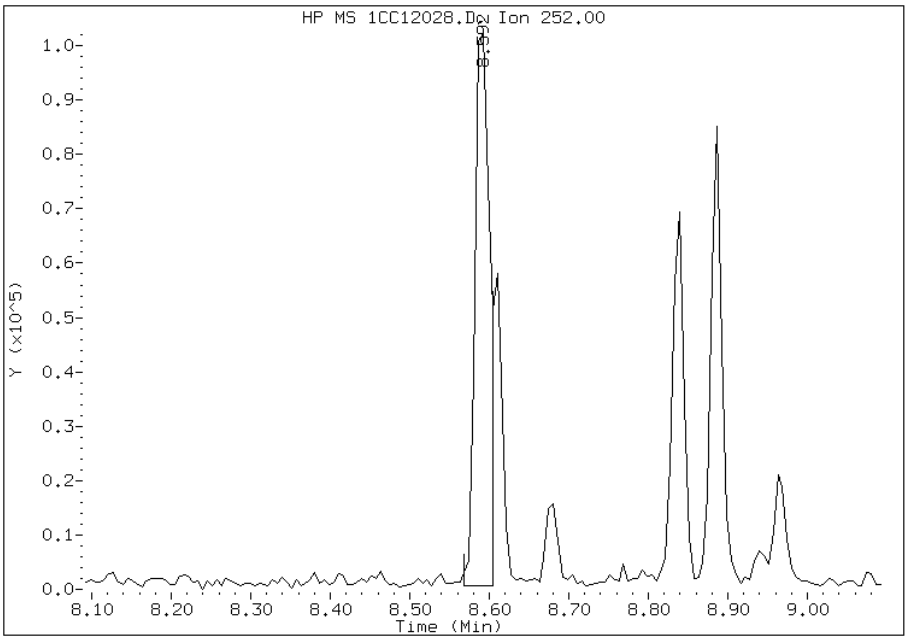
Manual Integration Results

RT: 8.59

Response: 131374

Amount: 3

Conc: 1027



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12028.D
Inj. Date and Time: 12-MAR-2013 20:28
Instrument ID: BSMC5973.i
Client ID: CV0388A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

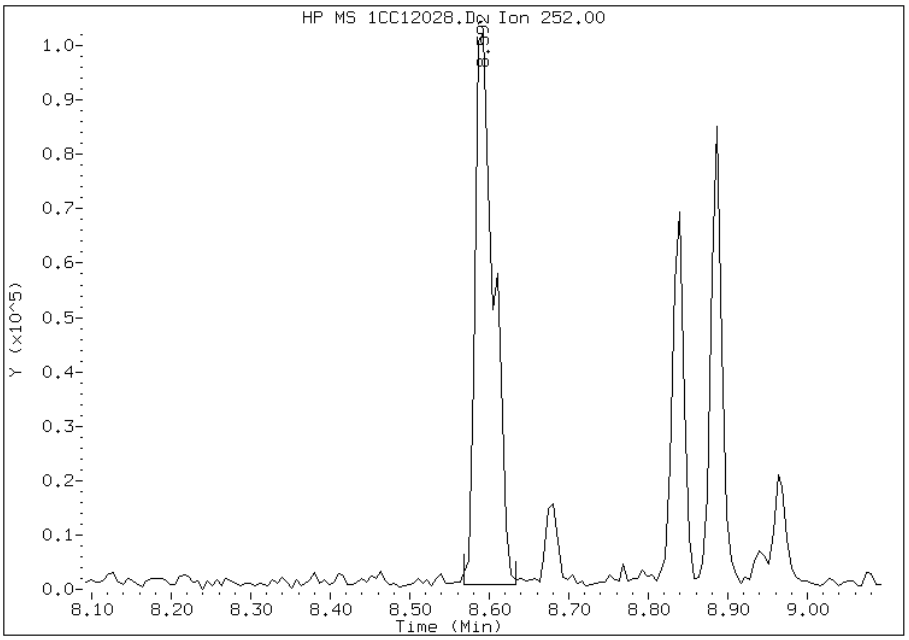
Processing Integration Results

RT: 8.59

Response: 166550

Amount: 3

Conc: 1269



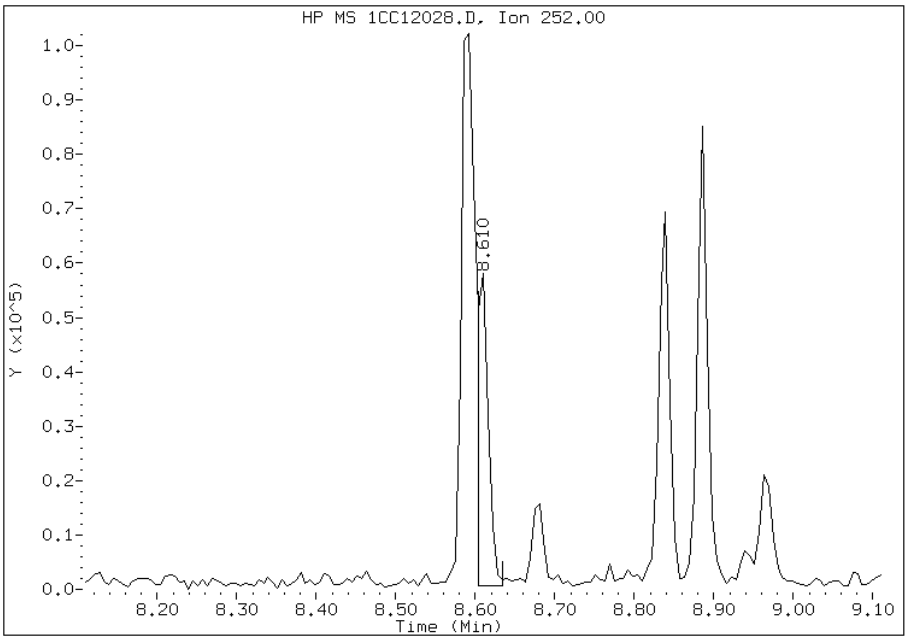
Manual Integration Results

RT: 8.61

Response: 54183

Amount: 1

Conc: 413



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12028.D
Inj. Date and Time: 12-MAR-2013 20:28
Instrument ID: BSMC5973.i
Client ID: CV0388A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

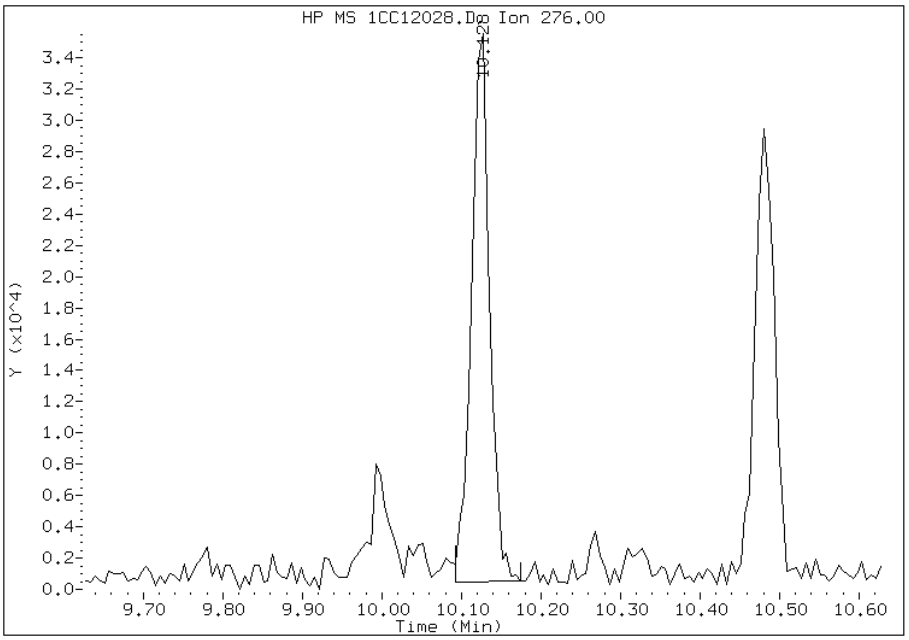
Processing Integration Results

RT: 10.13

Response: 55506

Amount: 1

Conc: 475



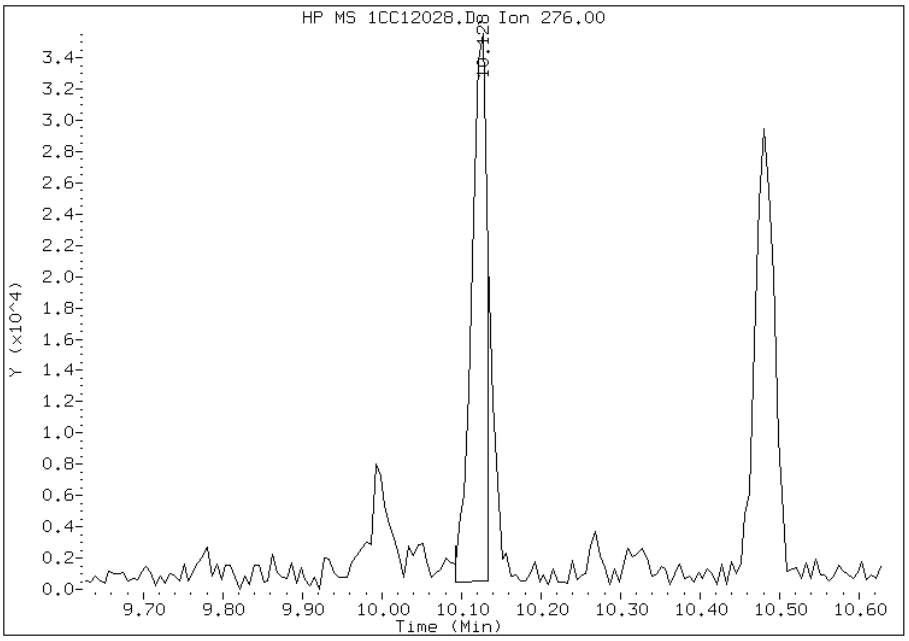
Manual Integration Results

RT: 10.13

Response: 47794

Amount: 1

Conc: 409



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0388A-CSD | Lab Sample ID: 680-88067-17

Matrix: Solid | Lab File ID: 1CC12029.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:10

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

Sample wt/vol: 15.31(g) | Date Analyzed: 03/12/2013 20:46

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

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

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

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	74	J	210	26
120-12-7	Anthracene	84		44	22
56-55-3	Benzo[a]anthracene	420		42	21
50-32-8	Benzo[a]pyrene	330		55	27
205-99-2	Benzo[b]fluoranthene	690		64	32
191-24-2	Benzo[g,h,i]perylene	270		110	23
207-08-9	Benzo[k]fluoranthene	270		42	19
218-01-9	Chrysene	550		48	24
53-70-3	Dibenz(a,h)anthracene	100	J	110	22
206-44-0	Fluoranthene	470		110	21
86-73-7	Fluorene	28	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	150		110	38
90-12-0	1-Methylnaphthalene	210		210	23
91-57-6	2-Methylnaphthalene	250		210	38
91-20-3	Naphthalene	210		210	23
85-01-8	Phenanthrene	350		42	21
129-00-0	Pyrene	560		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12029.D
Lab Smp Id: 680-88067-A-17-A Client Smp ID: CV0388A-CSD
Inj Date : 12-MAR-2013 20:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-17-a
Misc Info : 680-88067-A-17-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: 29
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	Weight Extracted
M	25.813	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1315275	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1022026	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1882129	40.0000	
$	14 o-Terphenyl	230	6.051	6.051	(1.043)	54807	1.92867	679.2266
*	18 Chrysene-d12	240	7.745	7.745	(1.000)	1956067	40.0000	
*	23 Perylene-d12	264	8.945	8.945	(1.000)	1835666	40.0000	
	2 Naphthalene	128	3.774	3.774	(1.003)	20299	0.59282	208.7742
	3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	16388	0.71749	252.6817
	4 1-Methylnaphthalene	142	4.269	4.263	(1.134)	12665	0.60883	214.4118
	5 Acenaphthylene	152	4.763	4.763	(0.982)	8705	0.21126	74.4005
	9 Fluorene	166	5.186	5.192	(1.069)	2561	0.07907	27.8455(Q)
	11 Phenanthrene	178	5.815	5.815	(1.002)	53445	0.98203	345.8451
	12 Anthracene	178	5.851	5.851	(1.008)	12688	0.23838	83.9521
	13 Carbazole	167	5.957	5.957	(1.026)	5897	0.12464	43.8936

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.657	6.657	(1.147)	78836	1.32276	465.8404
16 Pyrene	202	6.821	6.827	(0.881)	84003	1.59803	562.7840
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	66628	1.18018	415.6268
19 Chrysene	228	7.762	7.768	(1.002)	88021	1.55794	548.6647
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	93727	1.95375	688.0592(M)
21 Benzo(k)fluoranthene	252	8.604	8.615	(0.962)	38123	0.77466	272.8139(QM)
22 Benzo(a)pyrene	252	8.886	8.886	(0.993)	43799	0.93995	331.0240
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	18910	0.43139	151.9245(M)
25 Dibenzo(a,h)anthracene	278	10.133	10.145	(1.133)	12525	0.29212	102.8757
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	35085	0.76513	269.4581

QC Flag Legend

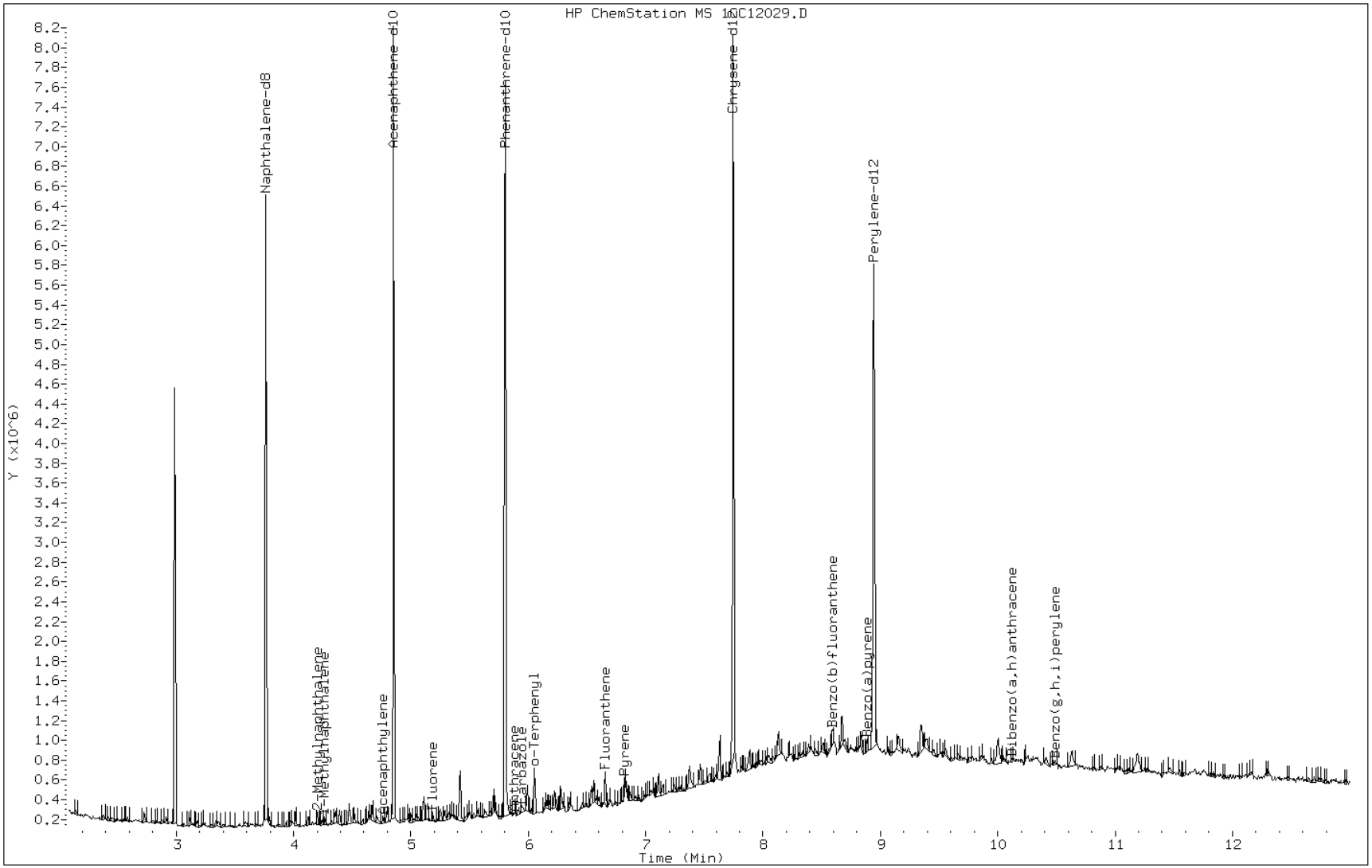
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC



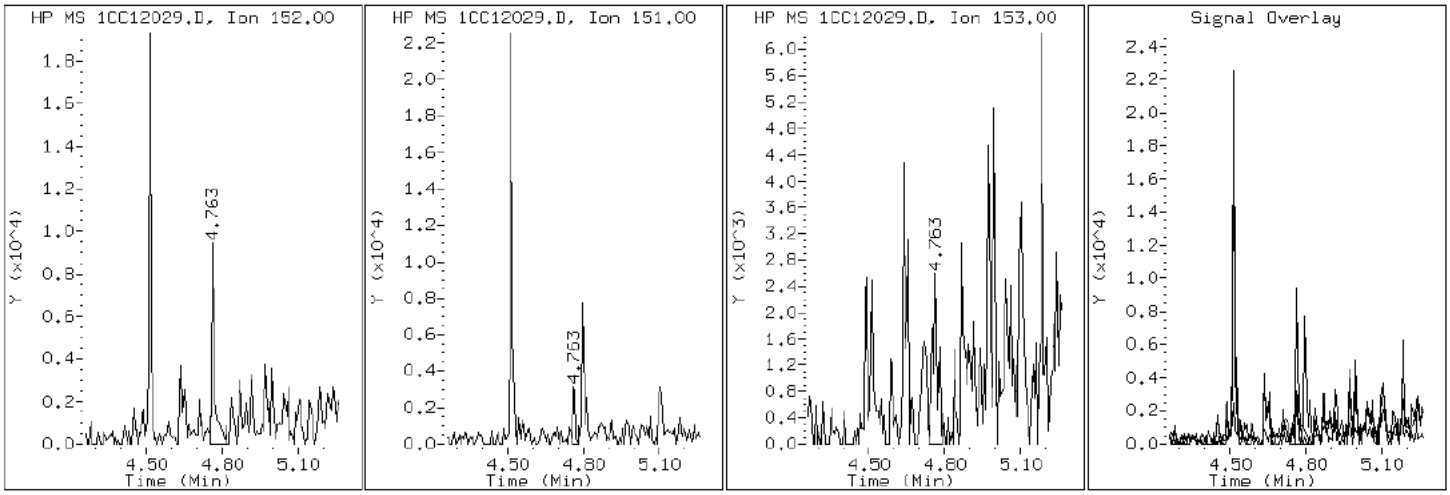
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

5 Acenaphthylene



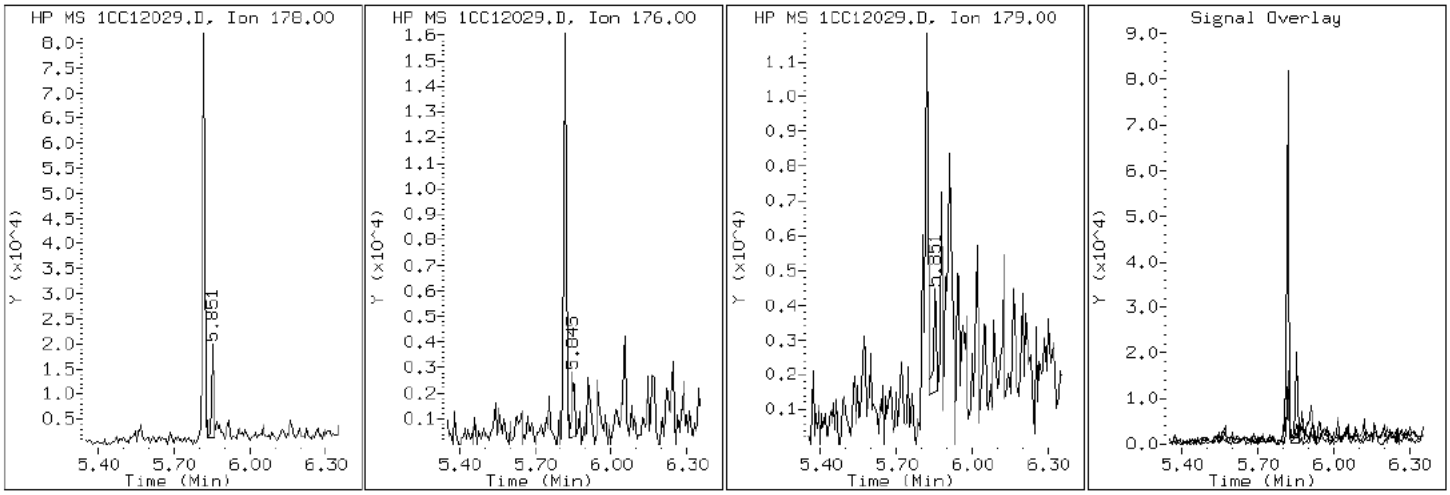
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

12 Anthracene



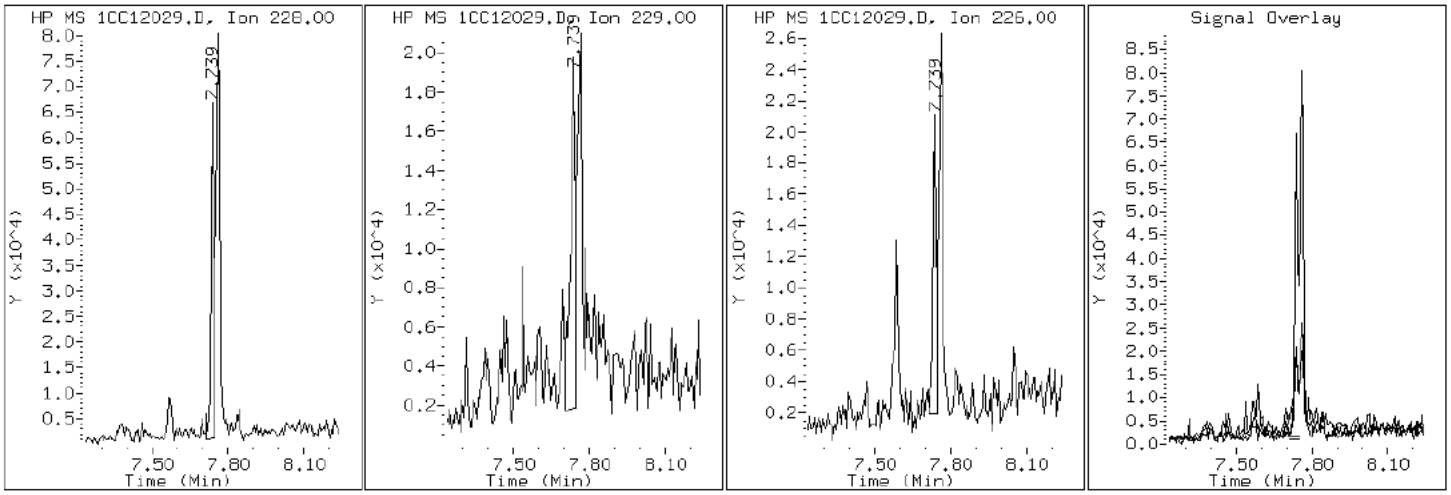
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

17 Benzo(a)anthracene



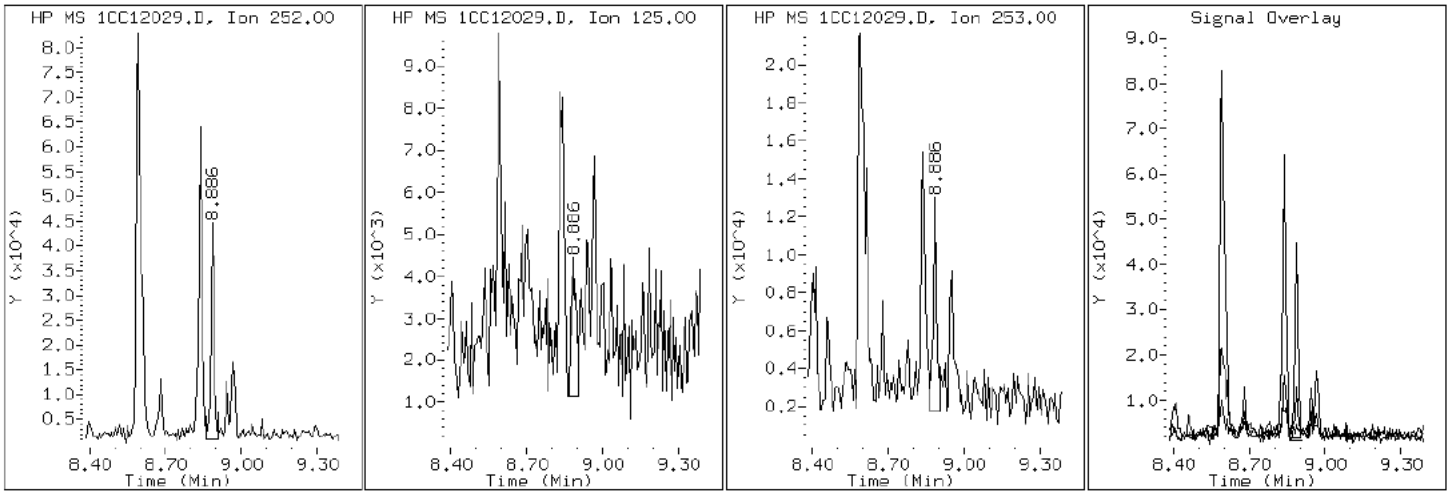
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

22 Benzo(a)pyrene



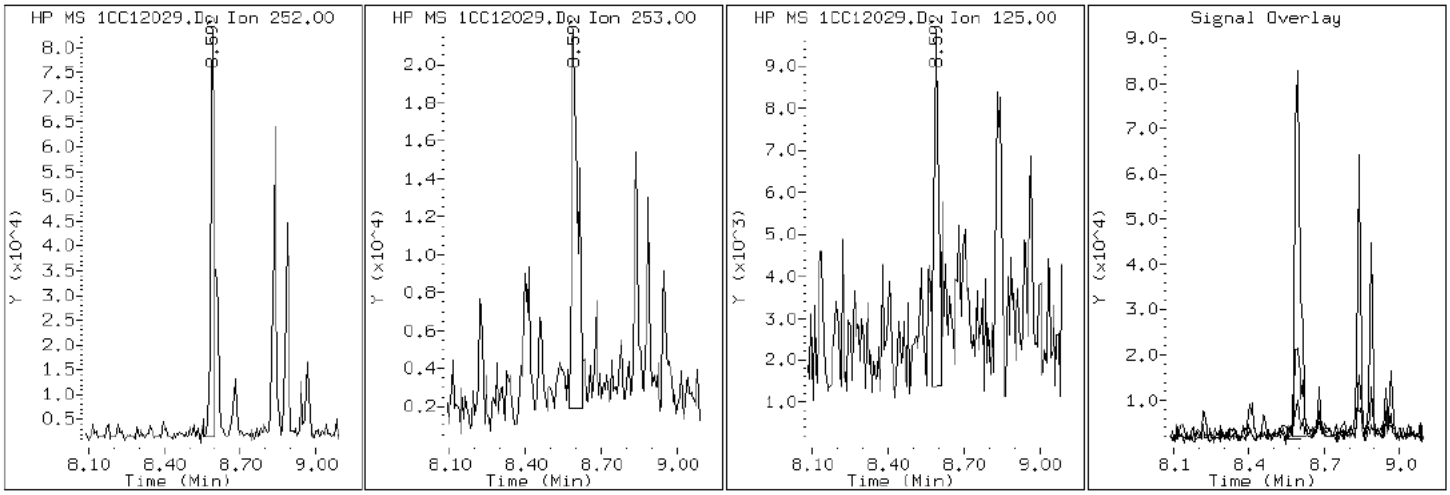
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



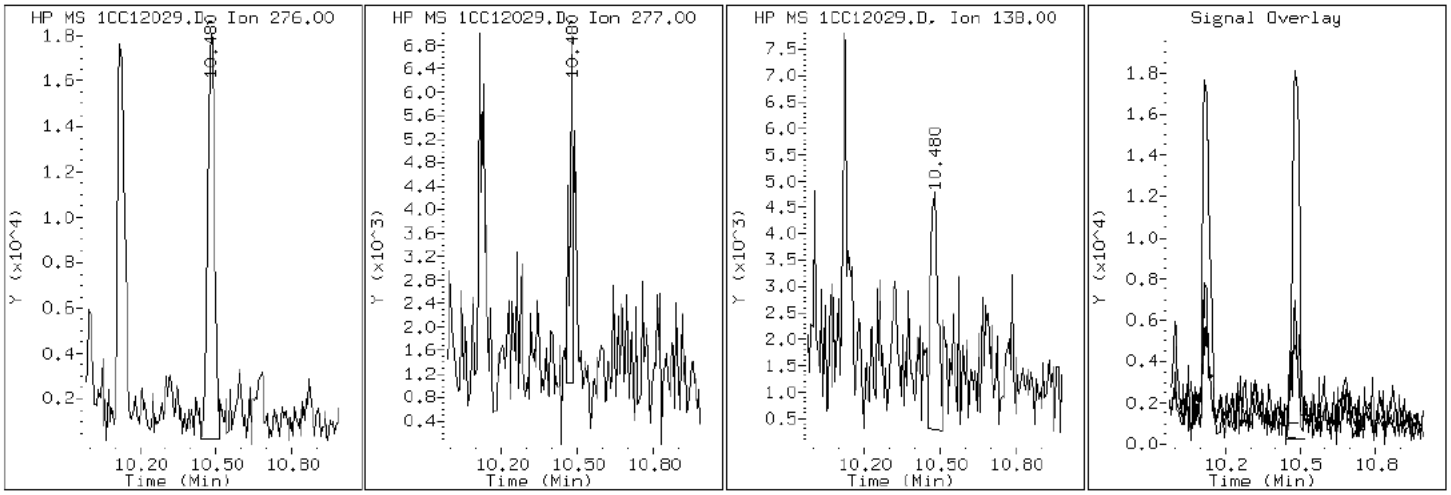
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



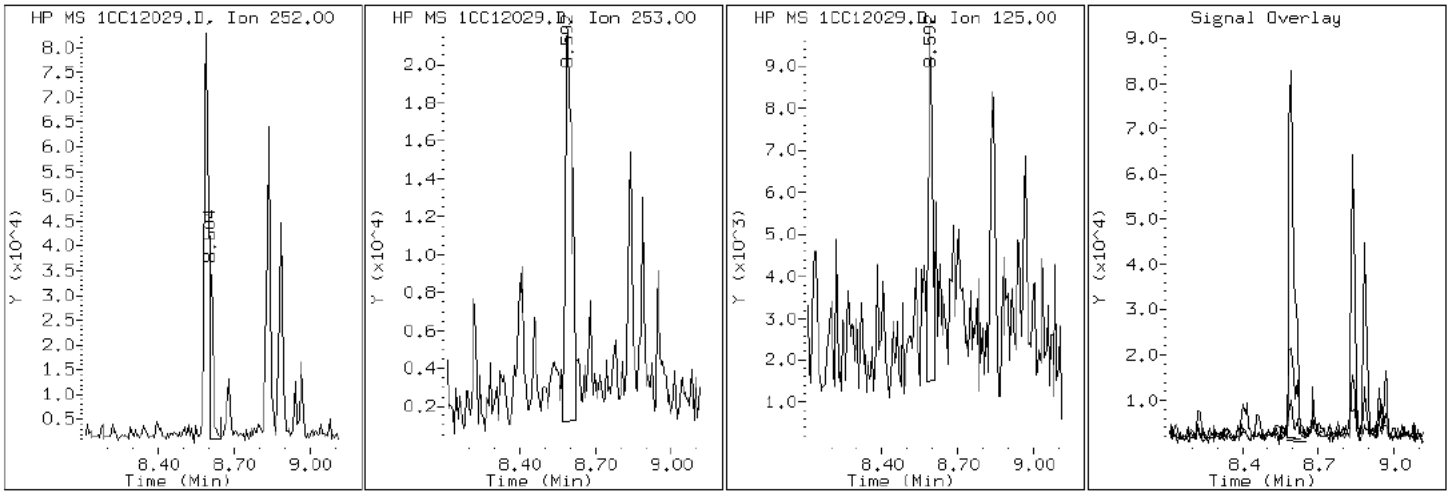
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



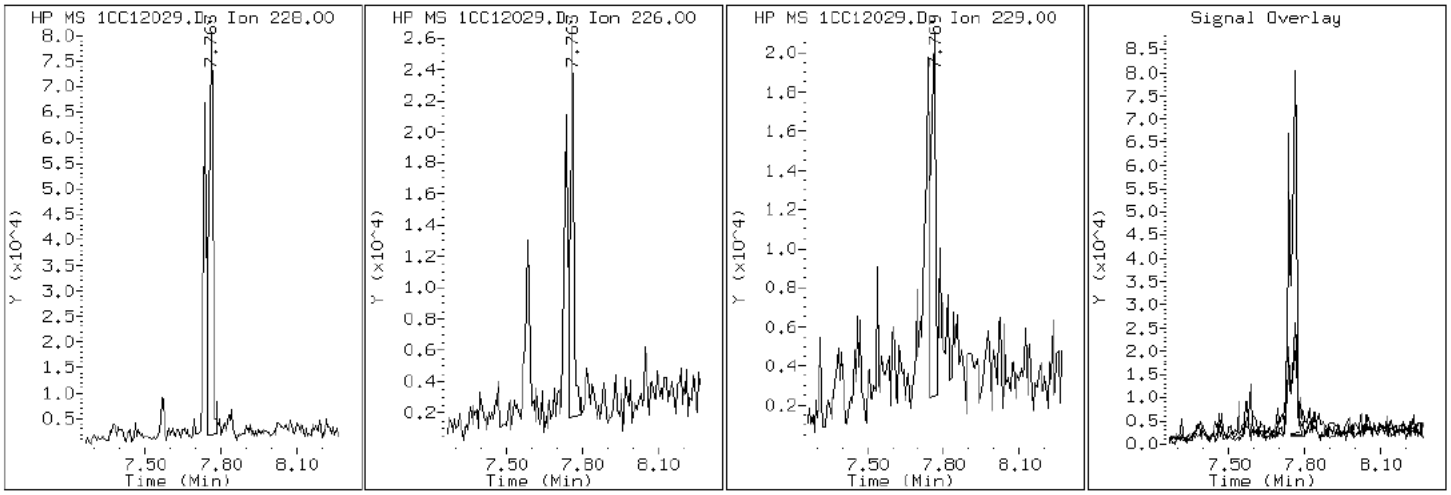
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

19 Chrysene



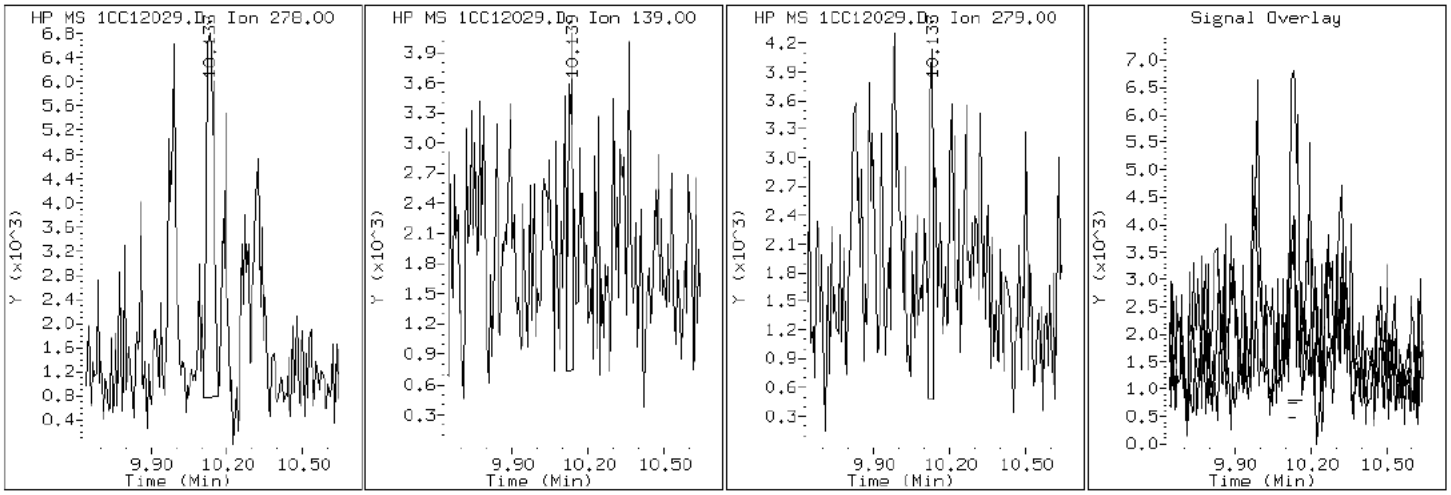
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



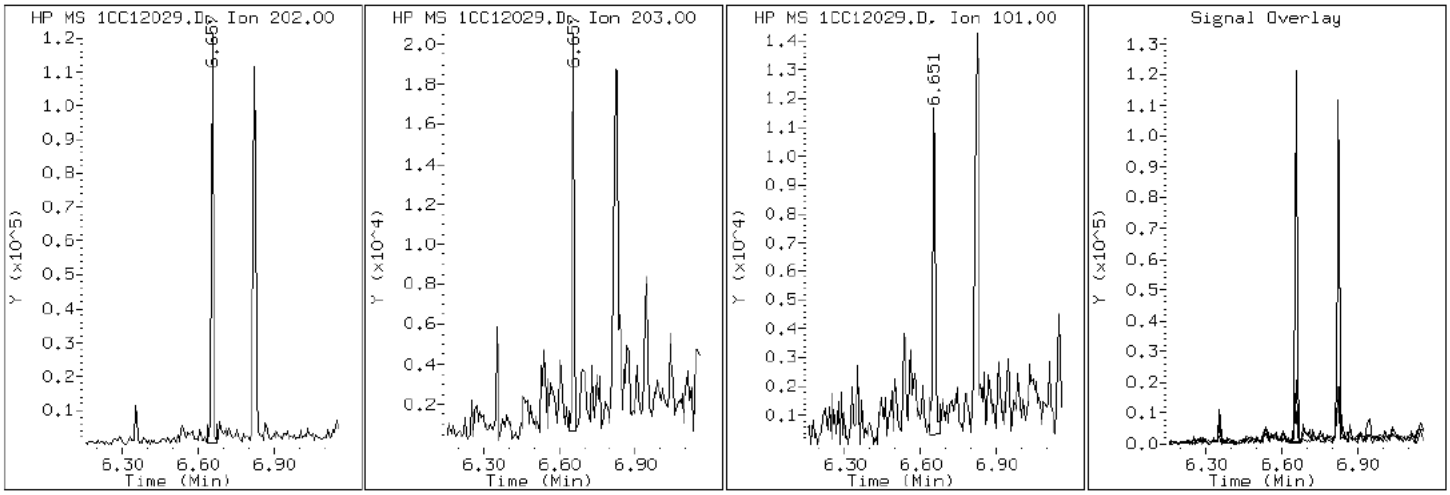
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

15 Fluoranthene



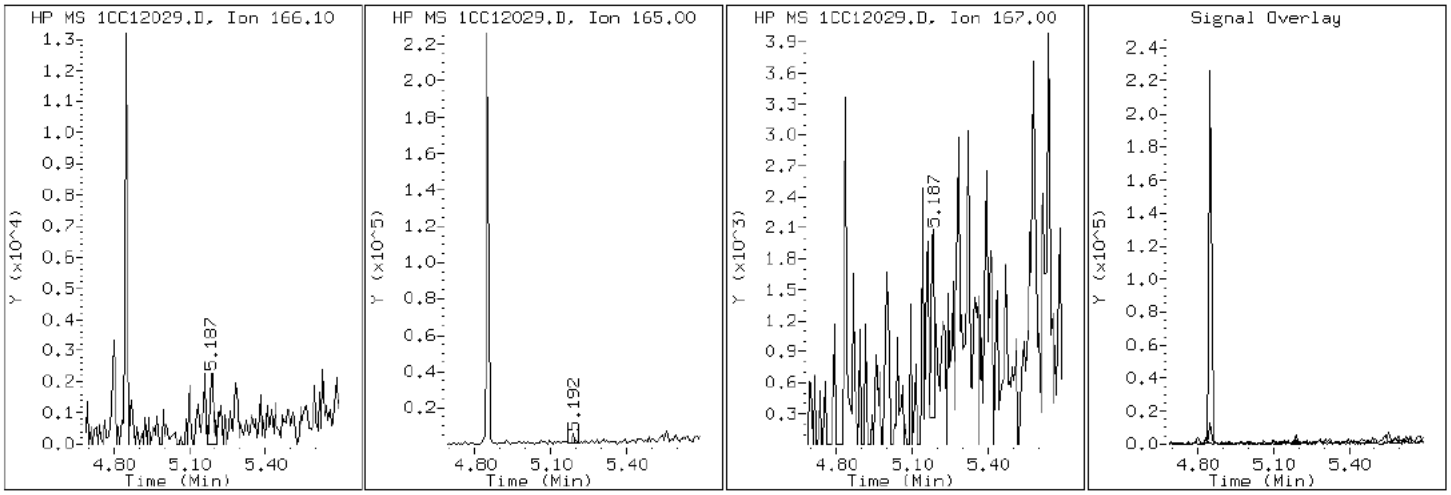
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

9 Fluorene



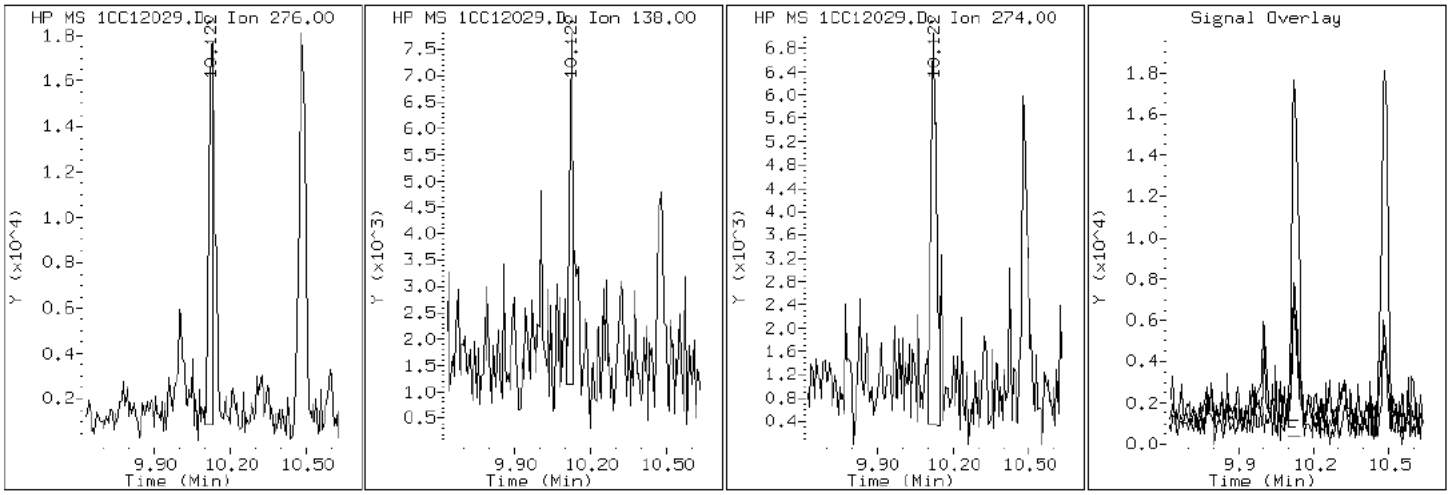
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

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



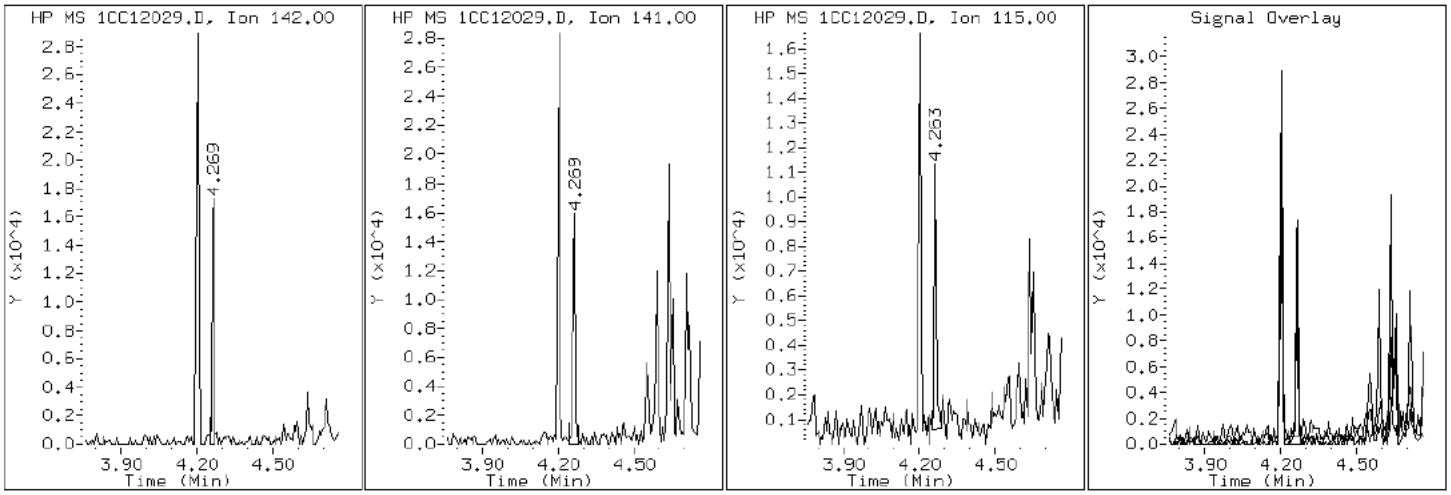
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

4 1-Methylnaphthalene



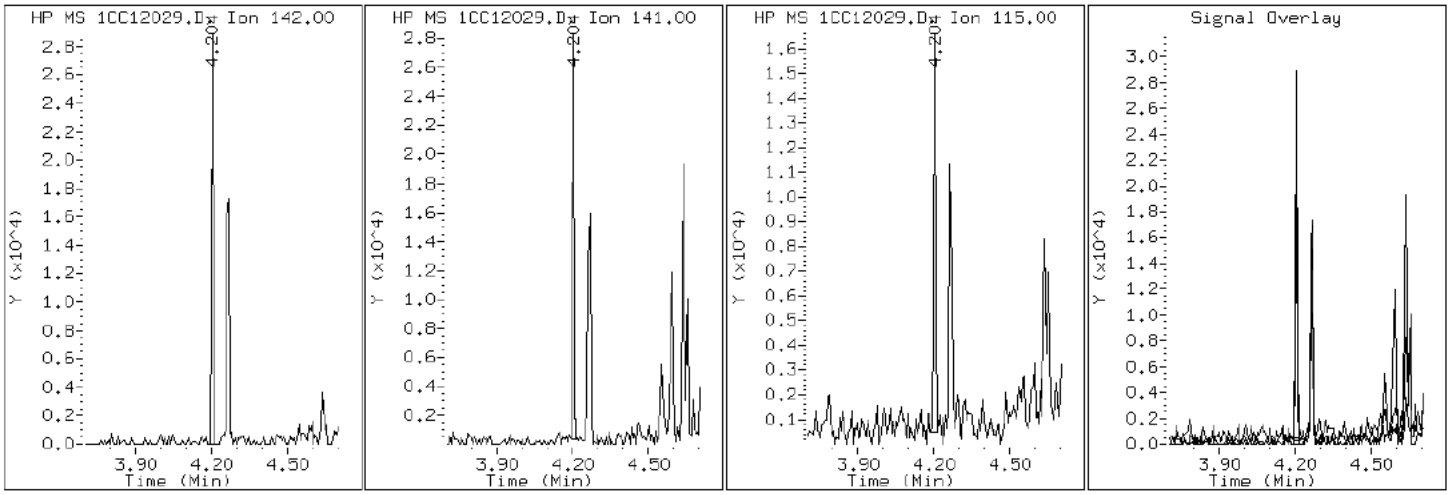
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

3 2-Methylnaphthalene



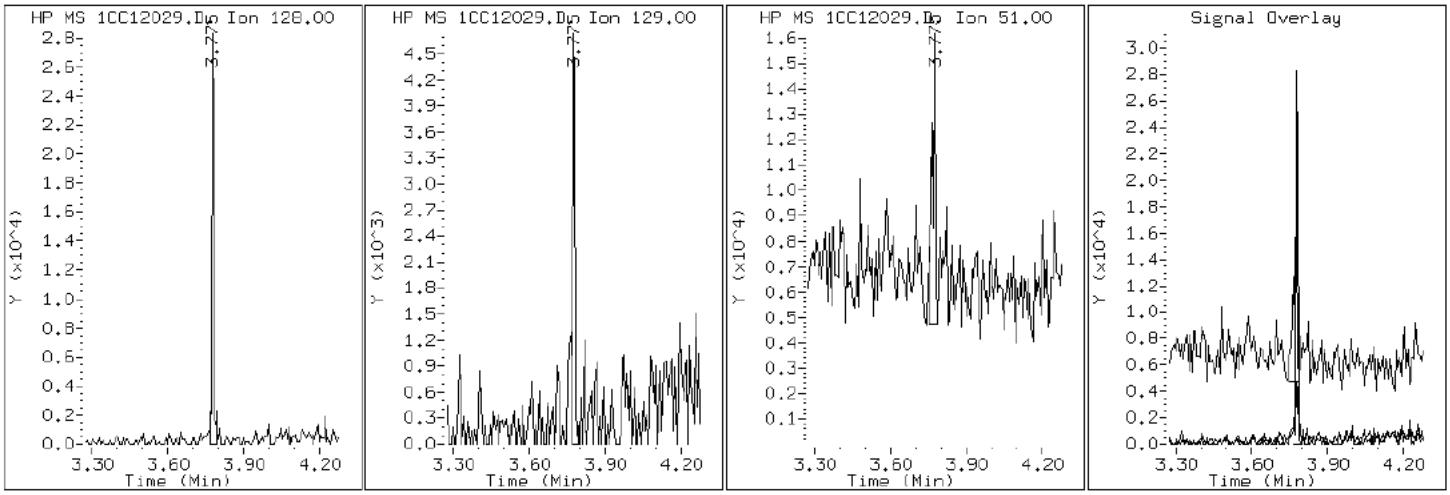
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

2 Naphthalene



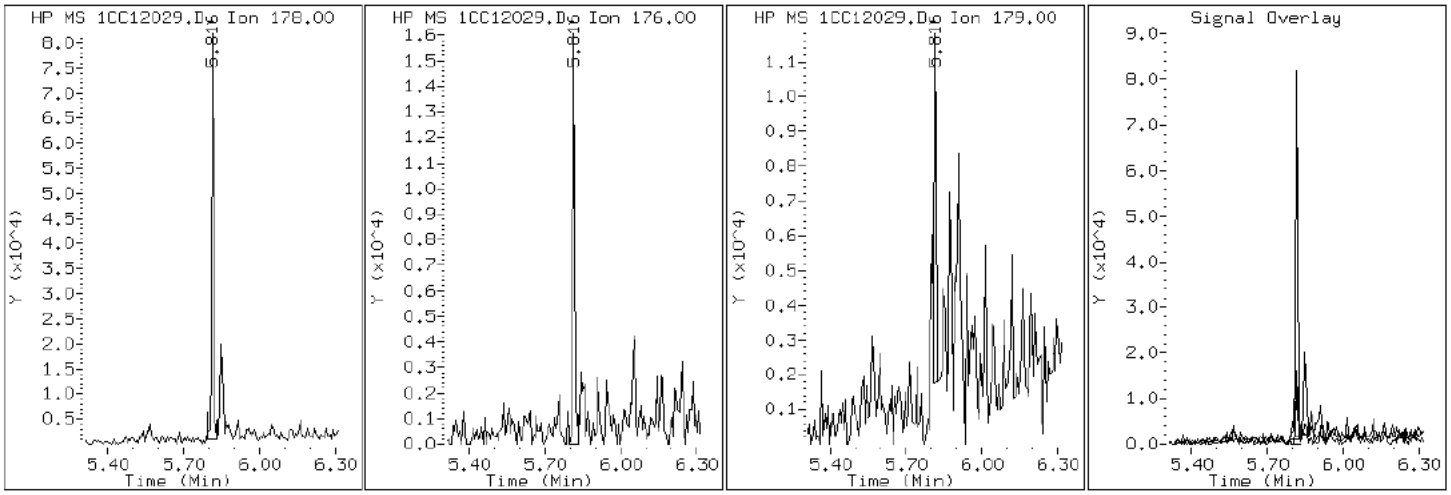
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

11 Phenanthrene



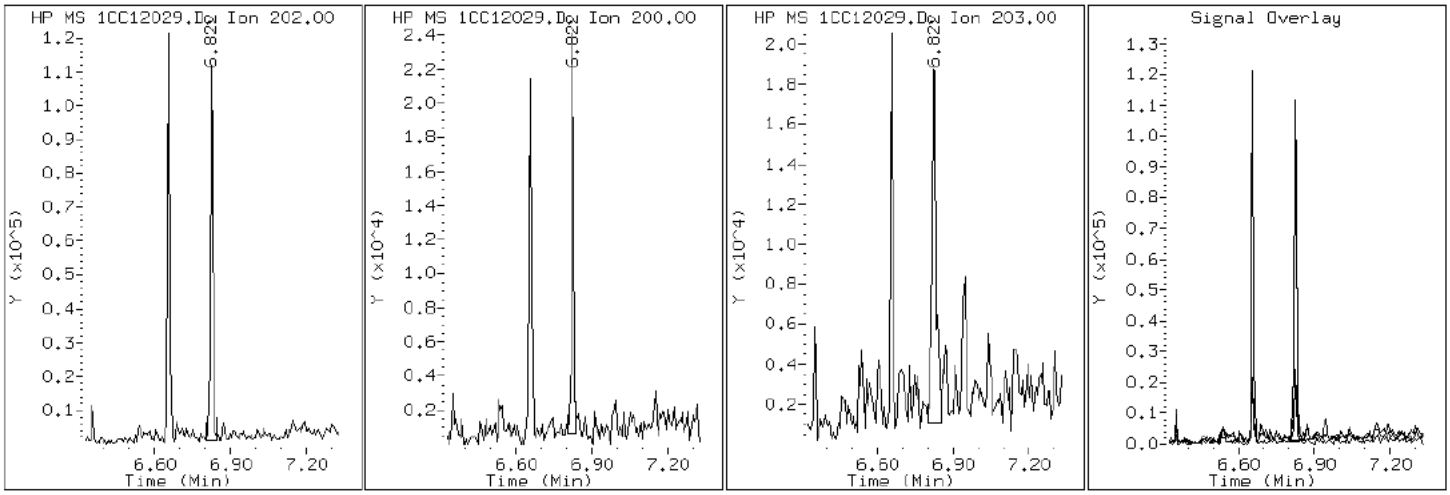
Data File: 1CC12029.D

Date: 12-MAR-2013 20:46

Client ID: CV0388A-CSD Instrument: BSMC5973.i

Sample Info: 680-88067-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12029.D
Inj. Date and Time: 12-MAR-2013 20:46
Instrument ID: BSMC5973.i
Client ID: CV0388A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

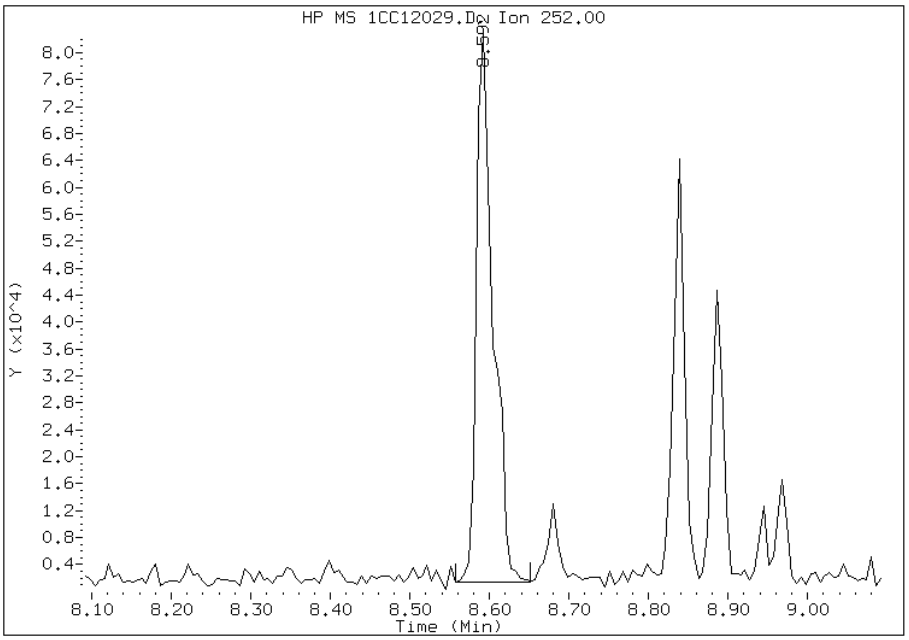
Processing Integration Results

RT: 8.59

Response: 117943

Amount: 2

Conc: 866



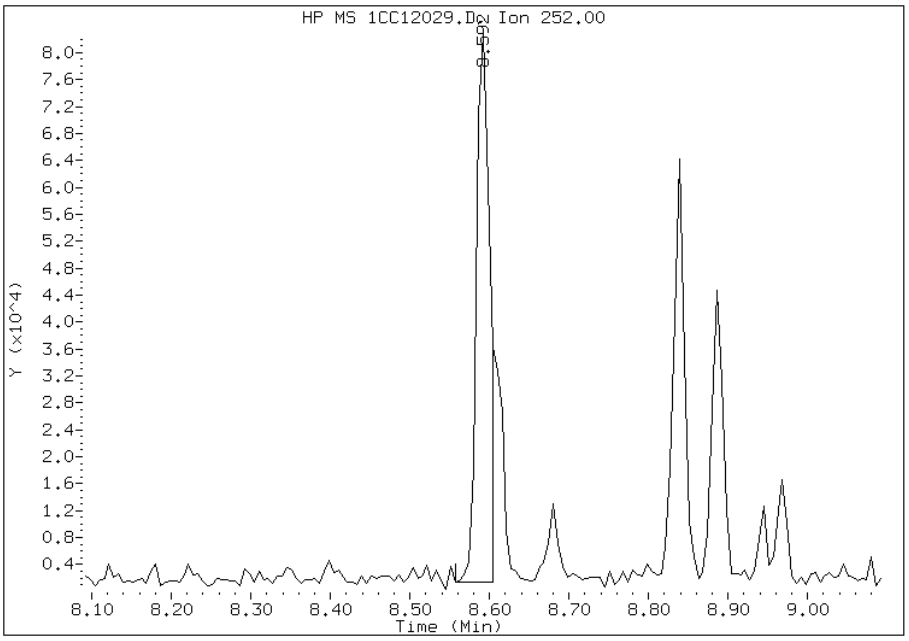
Manual Integration Results

RT: 8.59

Response: 93727

Amount: 2

Conc: 688



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12029.D
Inj. Date and Time: 12-MAR-2013 20:46
Instrument ID: BSMC5973.i
Client ID: CV0388A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

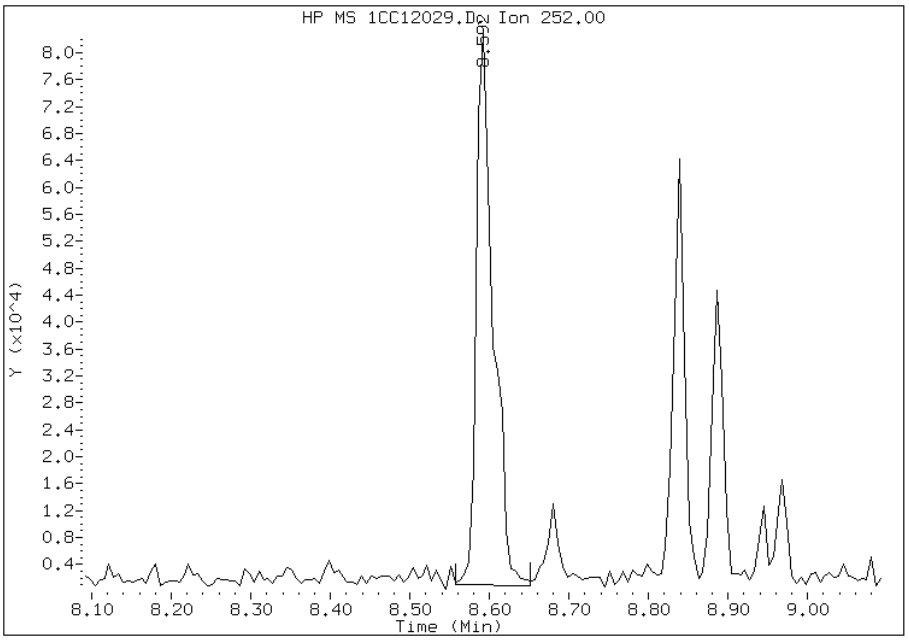
Processing Integration Results

RT: 8.59

Response: 120706

Amount: 2

Conc: 864



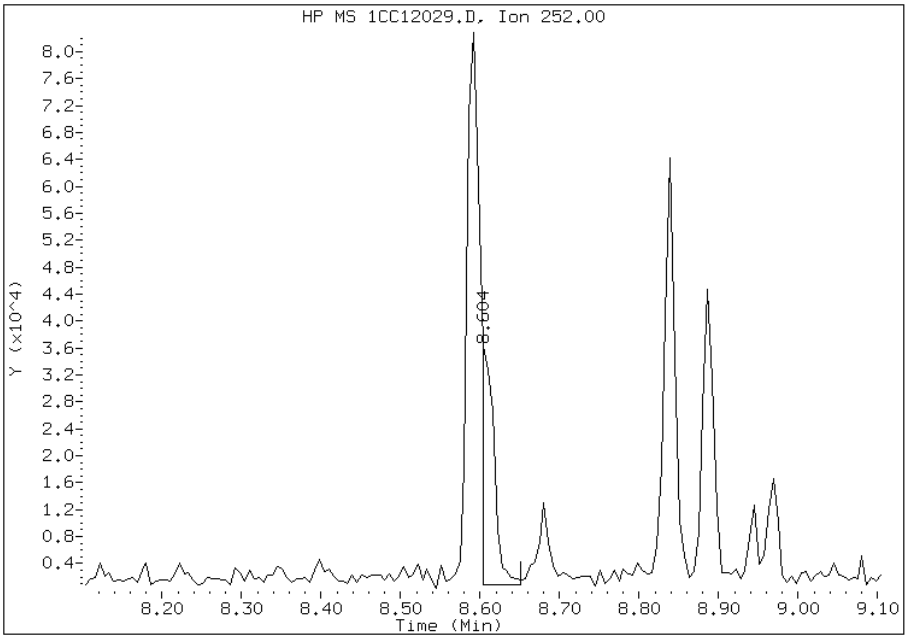
Manual Integration Results

RT: 8.60

Response: 38123

Amount: 1

Conc: 273



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12029.D
Inj. Date and Time: 12-MAR-2013 20:46
Instrument ID: BSMC5973.i
Client ID: CV0388A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

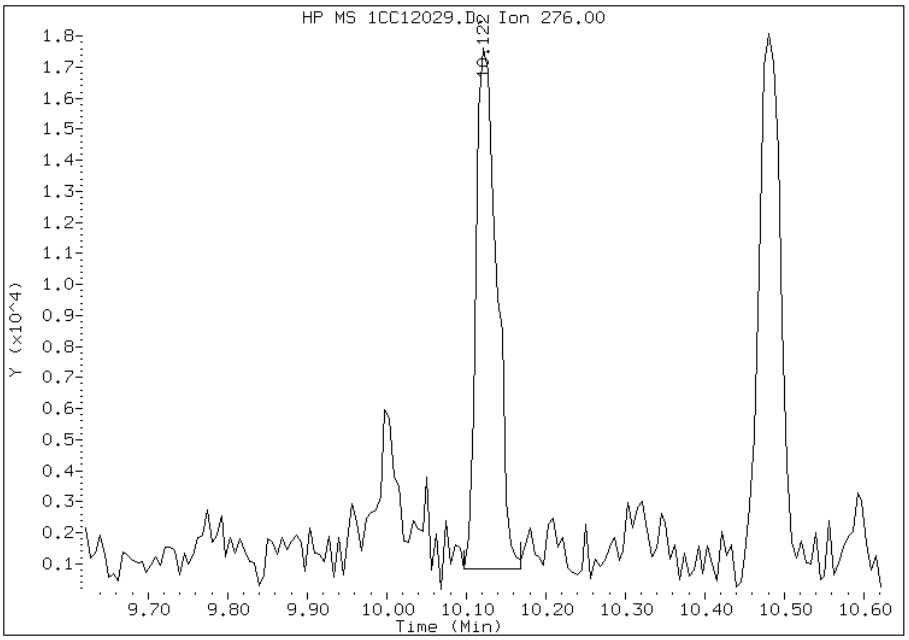
Processing Integration Results

RT: 10.12

Response: 30103

Amount: 1

Conc: 242



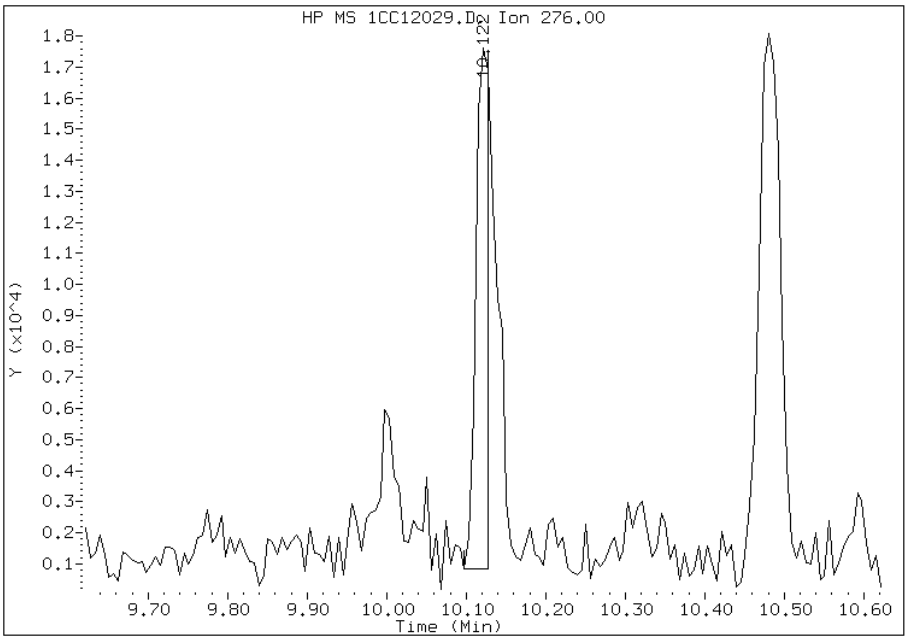
Manual Integration Results

RT: 10.12

Response: 18910

Amount: 0

Conc: 152



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0388B-CS | Lab Sample ID: 680-88067-18

Matrix: Solid | Lab File ID: 1CC12030.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:20

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

Sample wt/vol: 15.16(g) | Date Analyzed: 03/12/2013 21:05

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

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

% Moisture: 31.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135316 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	46	J	230	29
120-12-7	Anthracene	76		49	24
56-55-3	Benzo[a]anthracene	350		46	23
50-32-8	Benzo[a]pyrene	300		60	30
205-99-2	Benzo[b]fluoranthene	600		71	35
191-24-2	Benzo[g,h,i]perylene	240		120	26
207-08-9	Benzo[k]fluoranthene	200		46	21
218-01-9	Chrysene	390		52	26
53-70-3	Dibenz(a,h)anthracene	91	J	120	24
206-44-0	Fluoranthene	500		120	23
86-73-7	Fluorene	39	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	210		120	41
90-12-0	1-Methylnaphthalene	130	J	230	26
91-57-6	2-Methylnaphthalene	200	J	230	41
91-20-3	Naphthalene	170	J	230	26
85-01-8	Phenanthrene	390		46	23
129-00-0	Pyrene	570		120	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031213.b\1CC12030.D
Lab Smp Id: 680-88067-A-18-A Client Smp ID: CV0388B-CS
Inj Date : 12-MAR-2013 21:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-18-a
Misc Info : 680-88067-A-18-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: 30
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	31.773	% 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)	1426215	40.0000	
* 6 Acenaphthene-d10	164	4.851	4.851	(1.000)	1102052	40.0000	
* 10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1995612	40.0000	
$ 14 o-Terphenyl	230	6.051	6.051	(1.043)	54462	1.80755	699.0312
* 18 Chrysene-d12	240	7.745	7.745	(1.000)	2068719	40.0000	
* 23 Perylene-d12	264	8.945	8.945	(1.000)	1922336	40.0000	
2 Naphthalene	128	3.774	3.774	(1.003)	16178	0.43572	168.5037
3 2-Methylnaphthalene	142	4.204	4.204	(1.117)	12562	0.50720	196.1504
4 1-Methylnaphthalene	142	4.263	4.263	(1.133)	7470	0.33116	128.0698
5 Acenaphthylene	152	4.763	4.763	(0.982)	5306	0.11942	46.1833
9 Fluorene	166	5.192	5.192	(1.070)	3525	0.10093	39.0315(Q)
11 Phenanthrene	178	5.816	5.815	(1.002)	58357	1.01131	391.1037
12 Anthracene	178	5.851	5.851	(1.008)	11101	0.19671	76.0720
13 Carbazole	167	5.957	5.957	(1.026)	7889	0.15726	60.8159

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)	82353	1.30319	503.9835
16 Pyrene	202	6.821	6.827	(0.881)	82644	1.48657	574.8991
17 Benzo(a)anthracene	228	7.739	7.739	(0.999)	54691	0.91599	354.2386
19 Chrysene	228	7.762	7.768	(1.002)	59596	0.99739	385.7191
20 Benzo(b)fluoranthene	252	8.592	8.592	(0.961)	77833	1.54929	599.1565(M)
21 Benzo(k)fluoranthene	252	8.609	8.615	(0.963)	26107	0.50658	195.9078(QM)
22 Benzo(a)pyrene	252	8.880	8.886	(0.993)	37699	0.77256	298.7725
24 Indeno(1,2,3-cd)pyrene	276	10.121	10.127	(1.132)	24704	0.53816	208.1225(M)
25 Dibenzo(a,h)anthracene	278	10.139	10.145	(1.133)	10600	0.23607	91.2970(M)
26 Benzo(g,h,i)perylene	276	10.480	10.486	(1.172)	29987	0.62447	241.5006(M)

QC Flag Legend

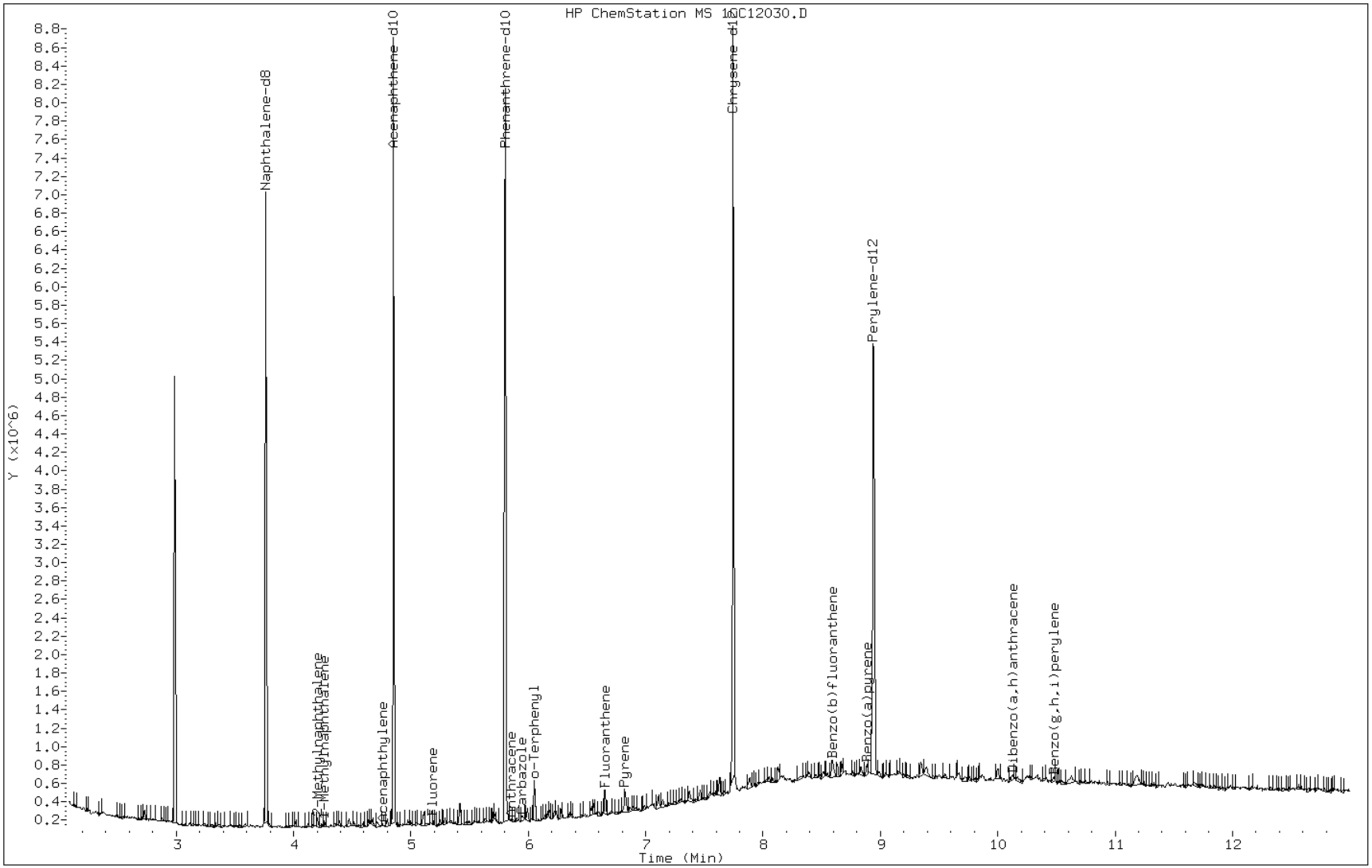
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC



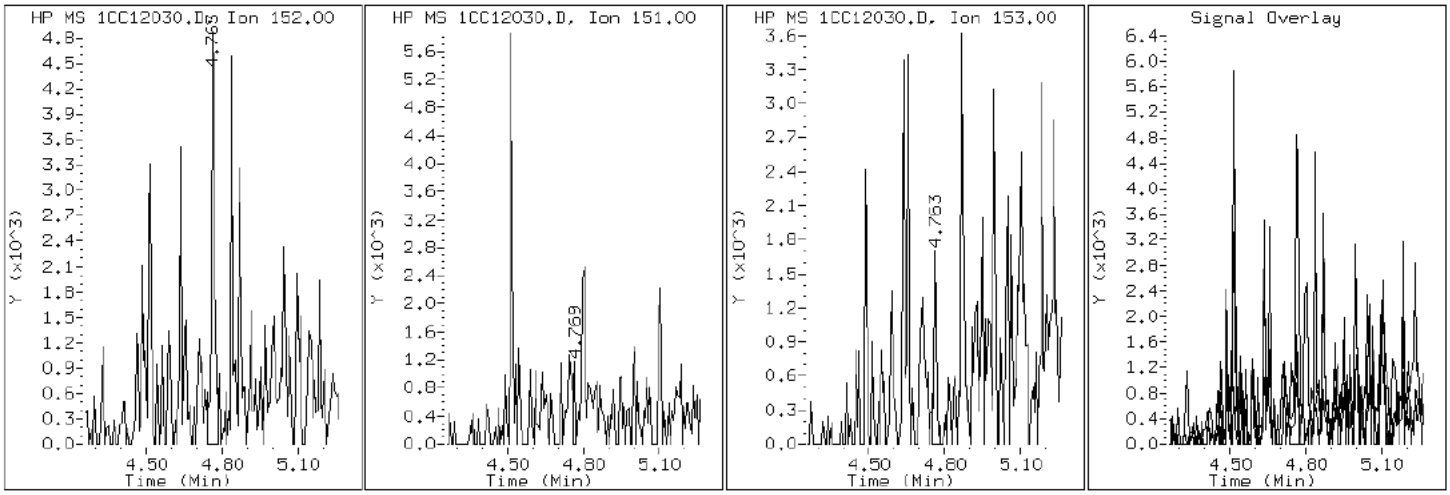
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

5 Acenaphthylene



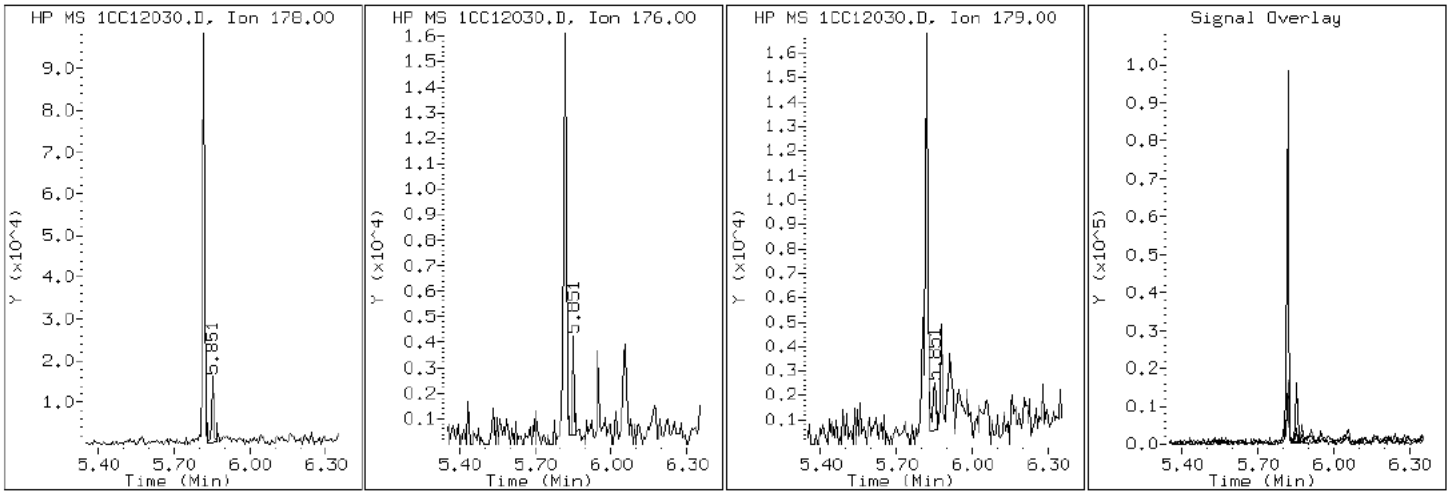
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

12 Anthracene



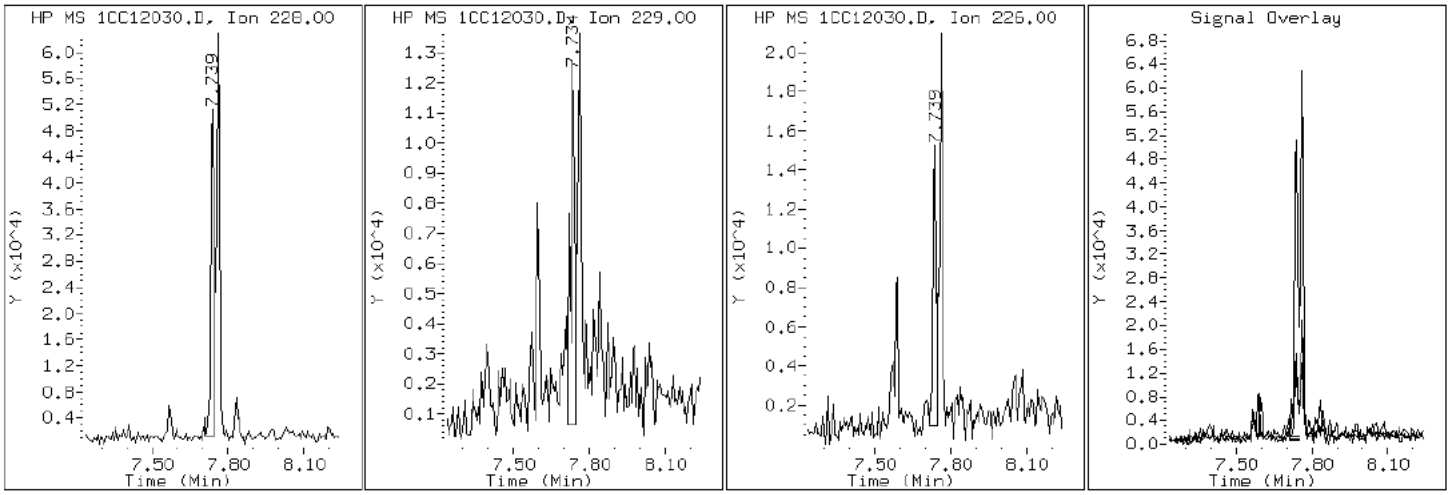
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

17 Benzo(a)anthracene



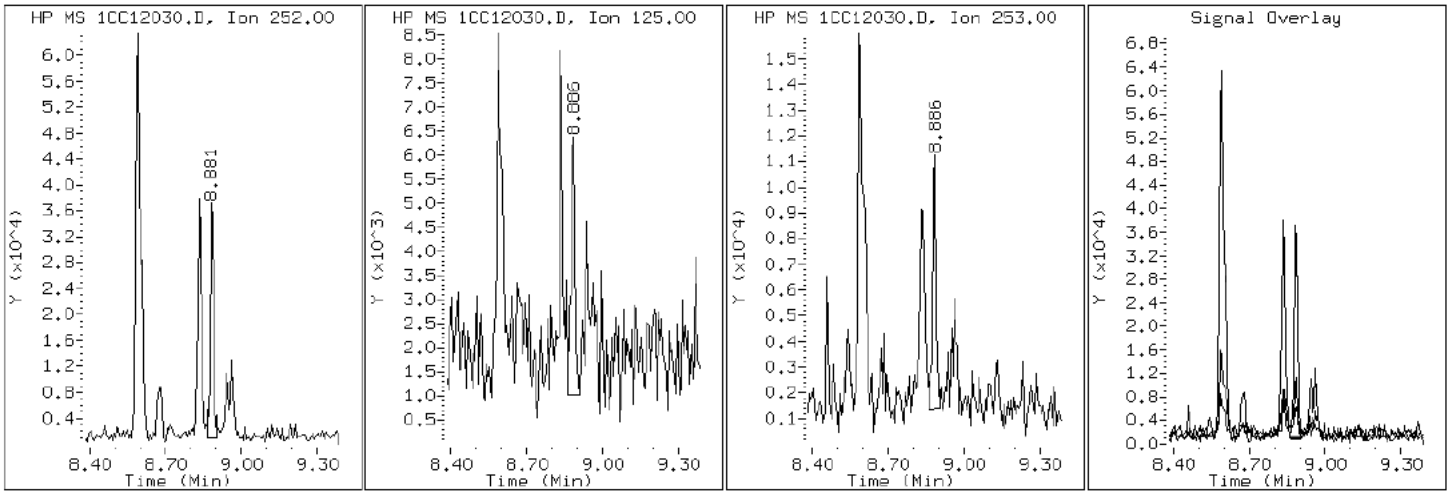
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

22 Benzo(a)pyrene



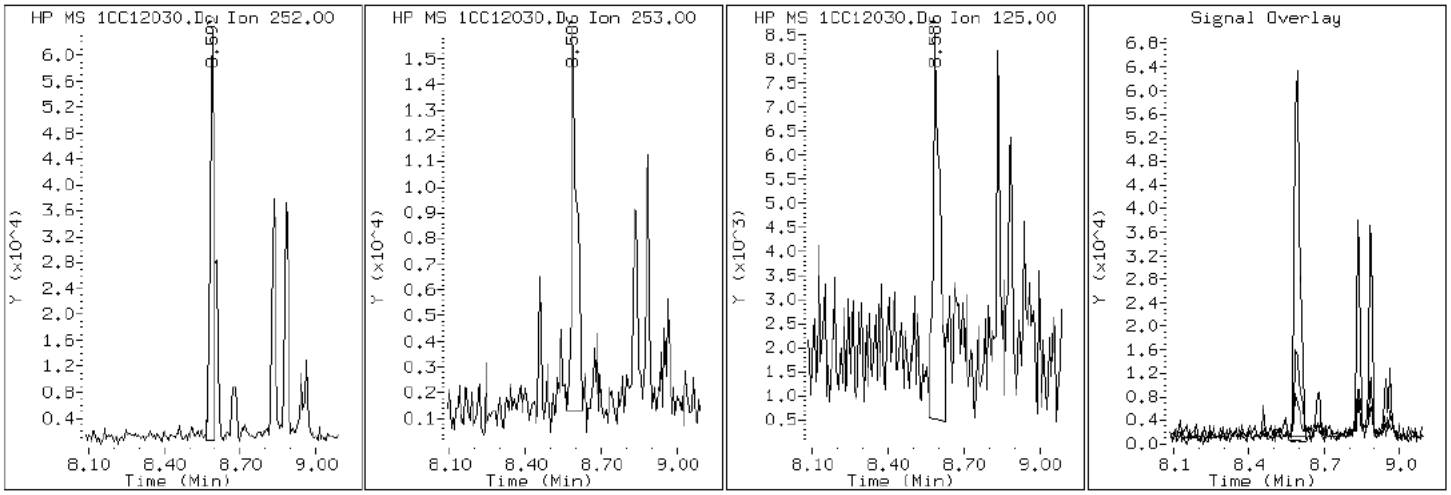
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



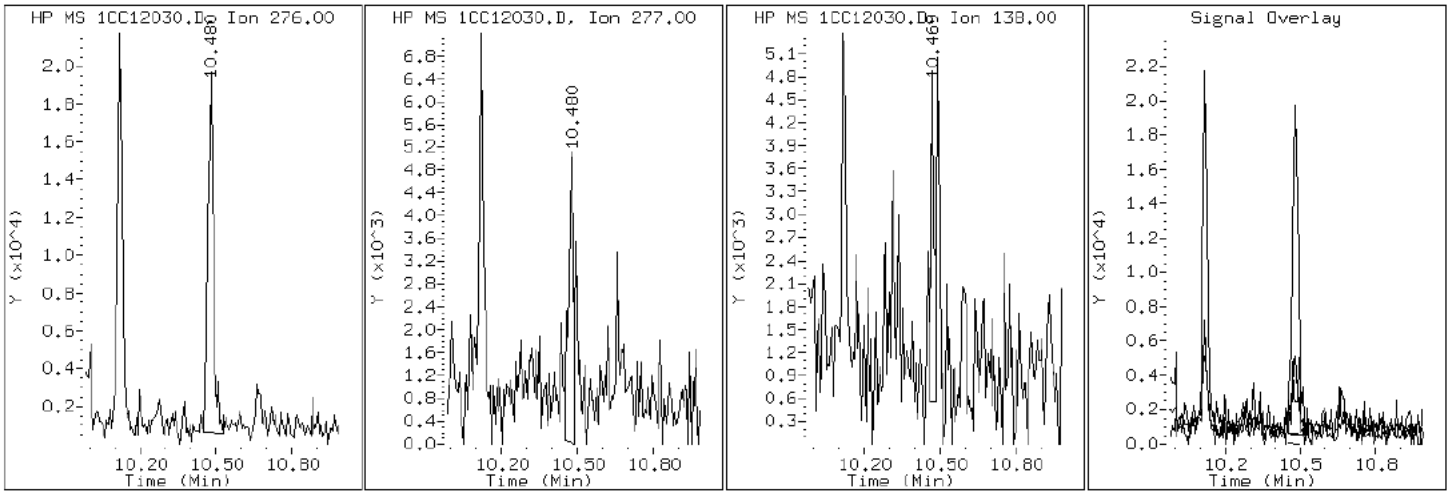
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



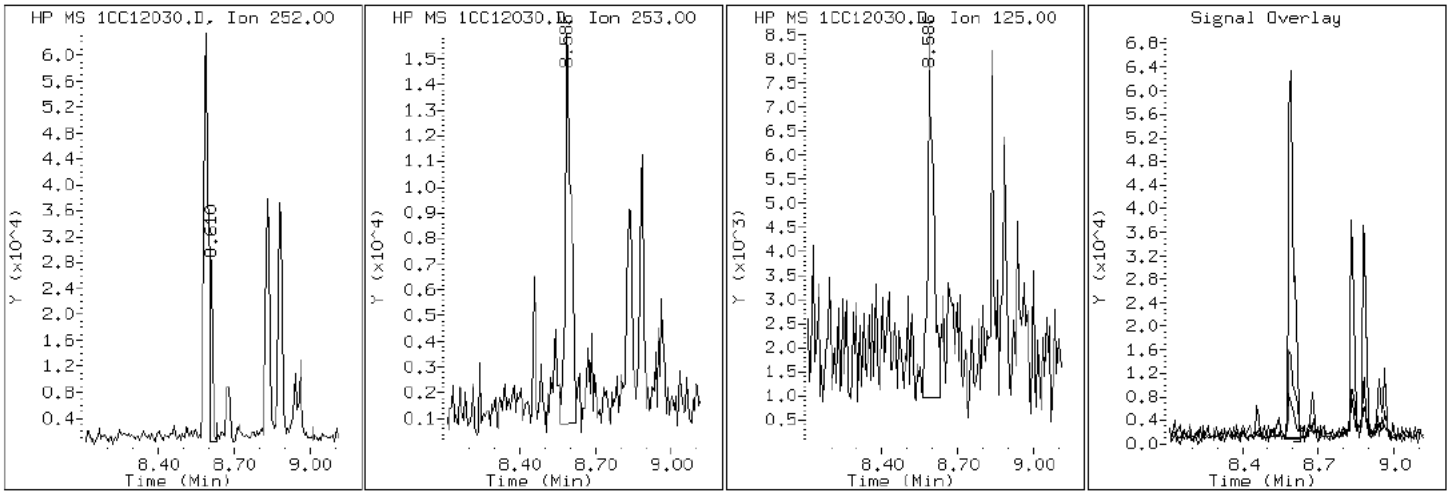
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



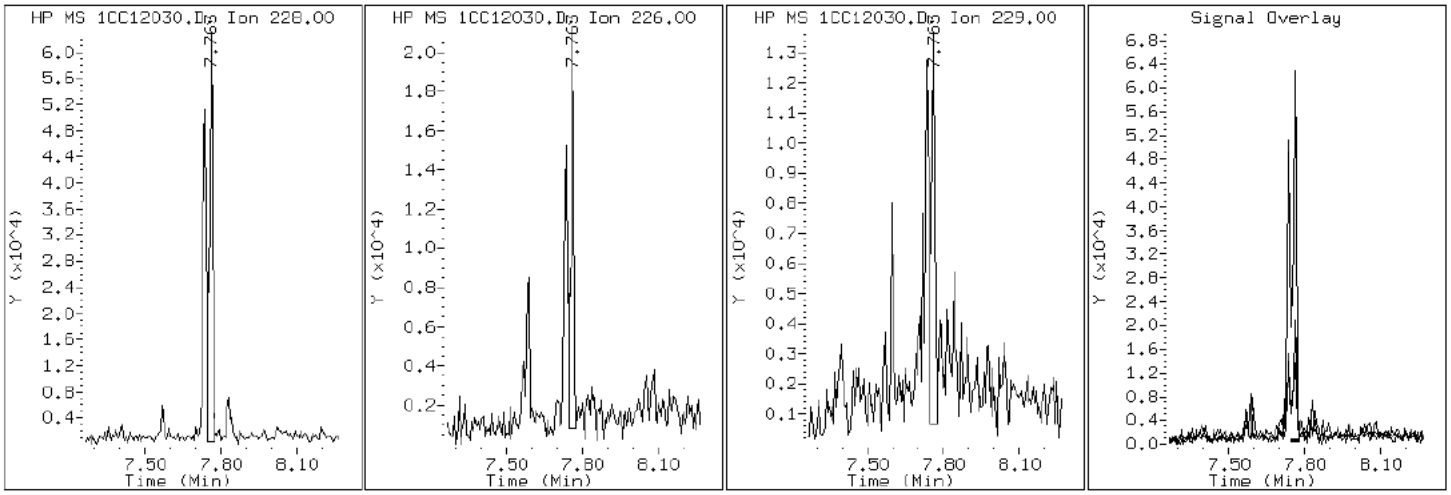
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

19 Chrysene



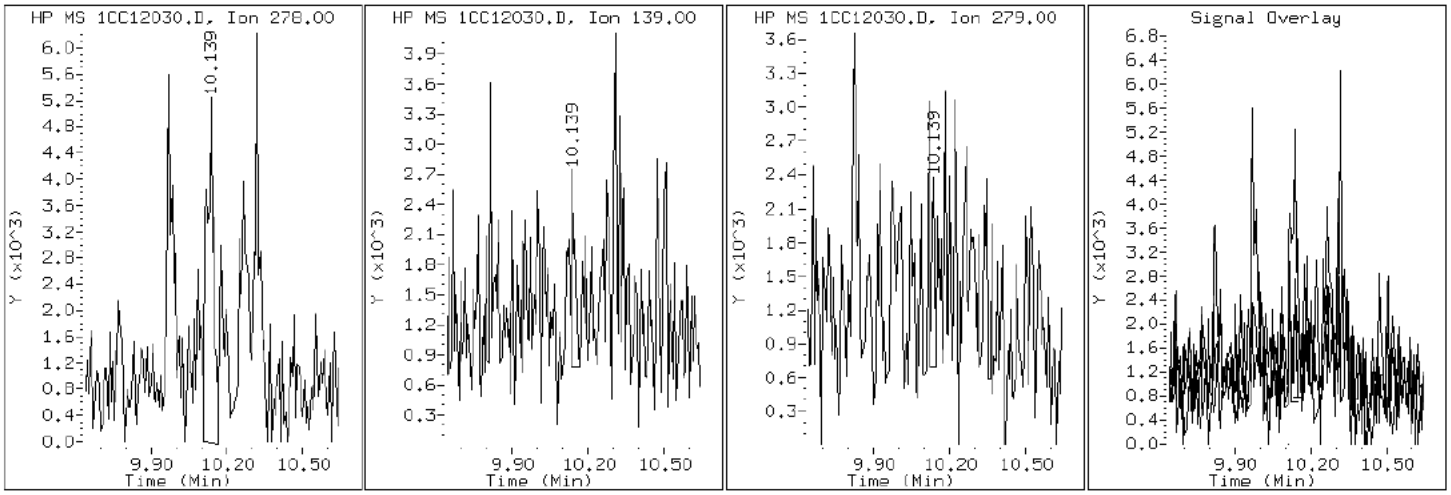
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



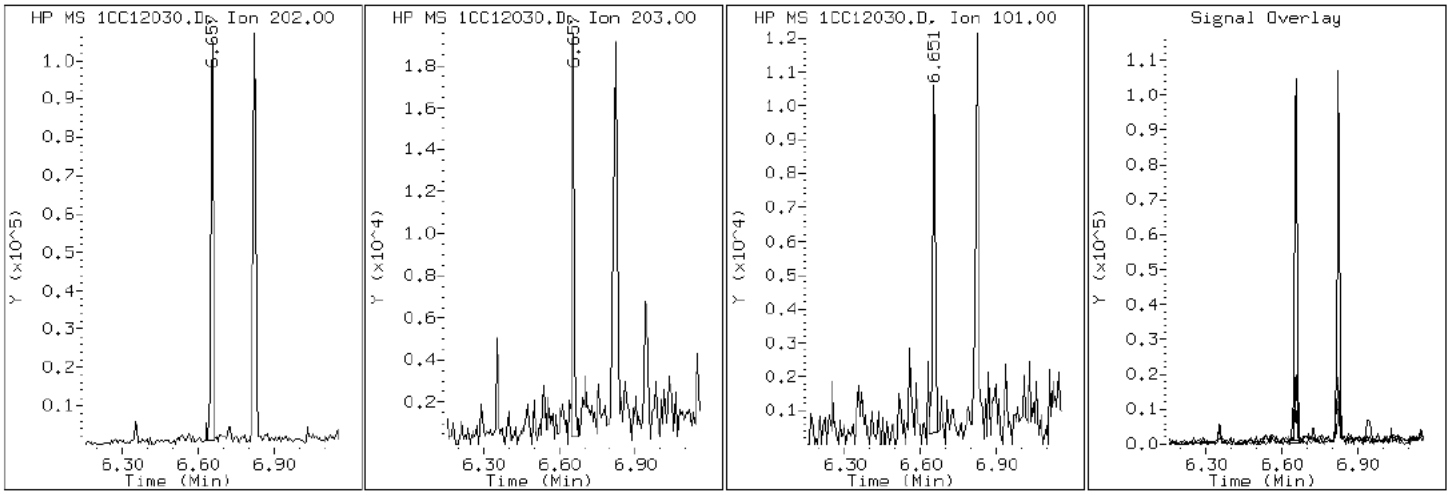
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

15 Fluoranthene



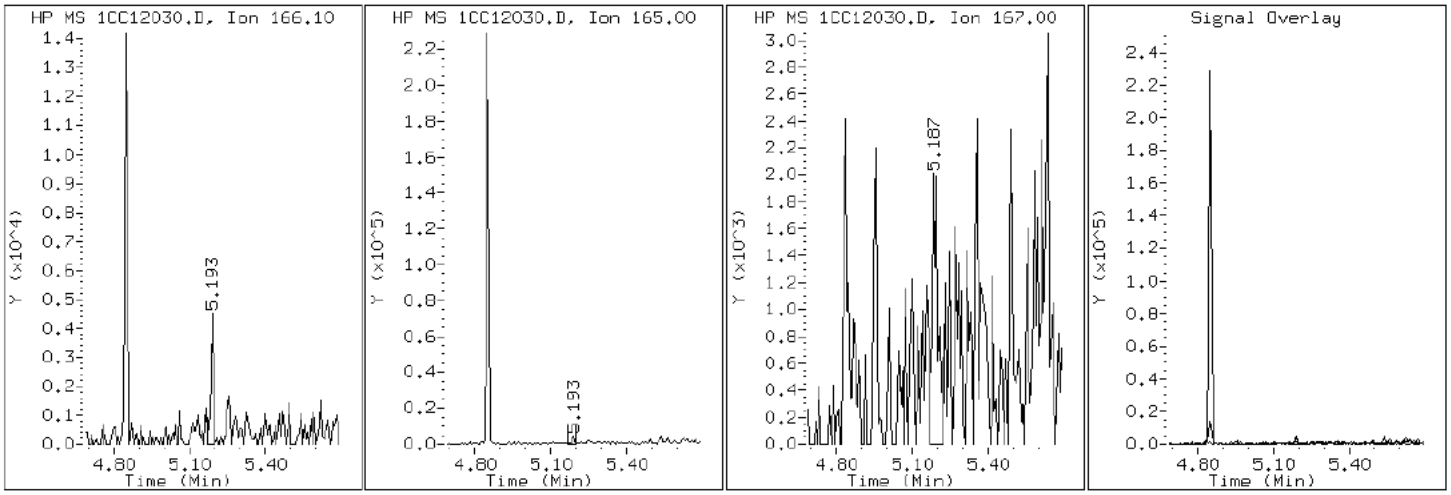
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

9 Fluorene



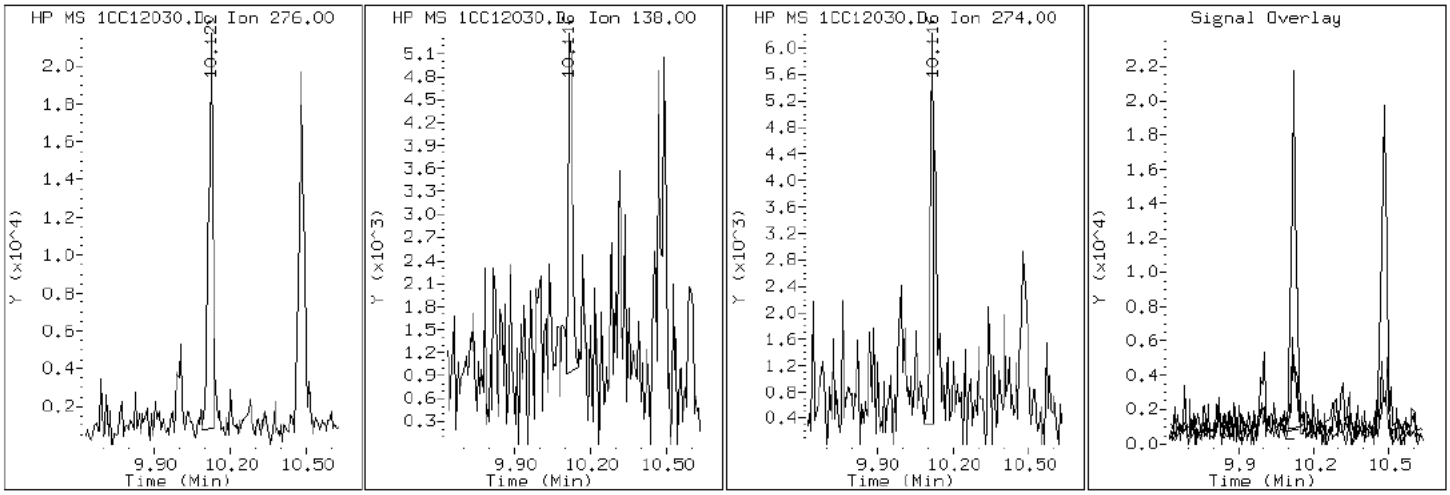
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

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



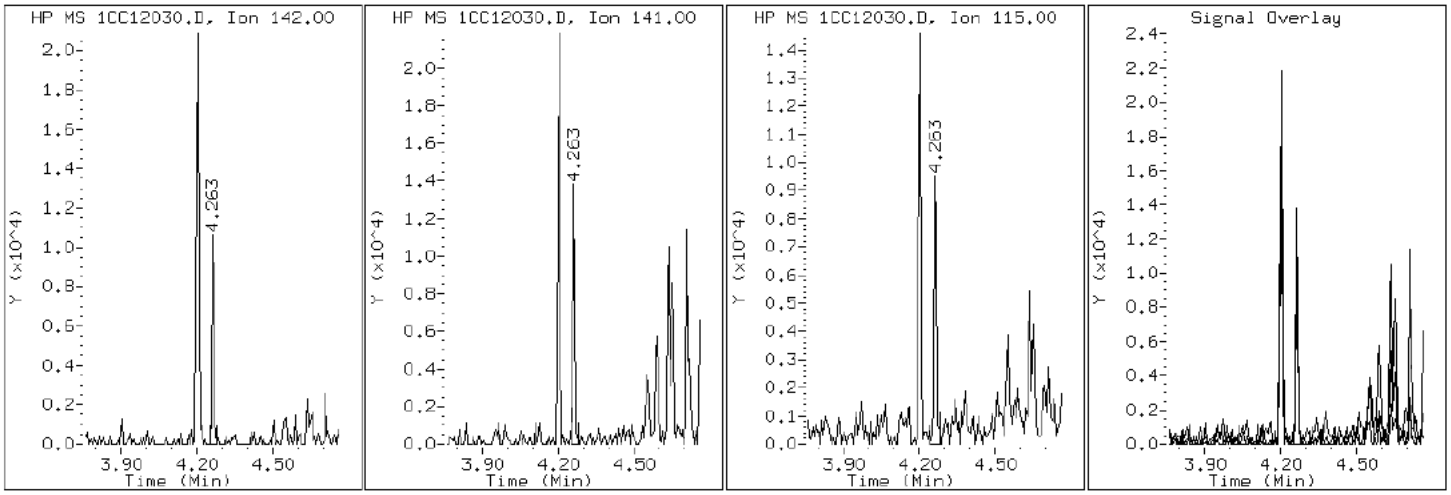
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

4 1-Methylnaphthalene



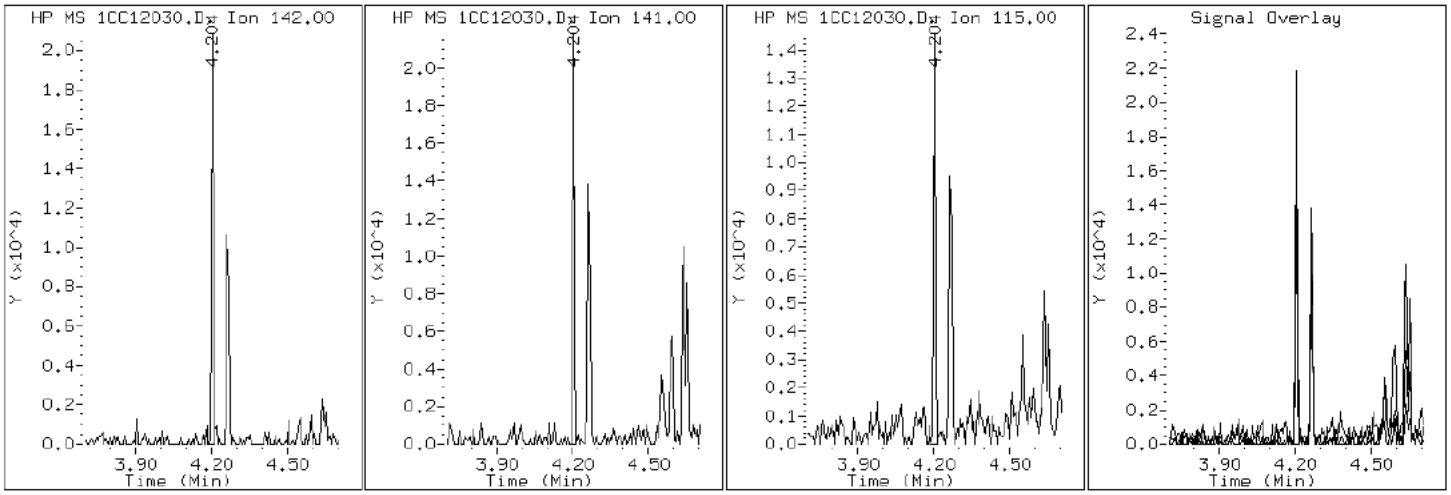
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

3 2-Methylnaphthalene



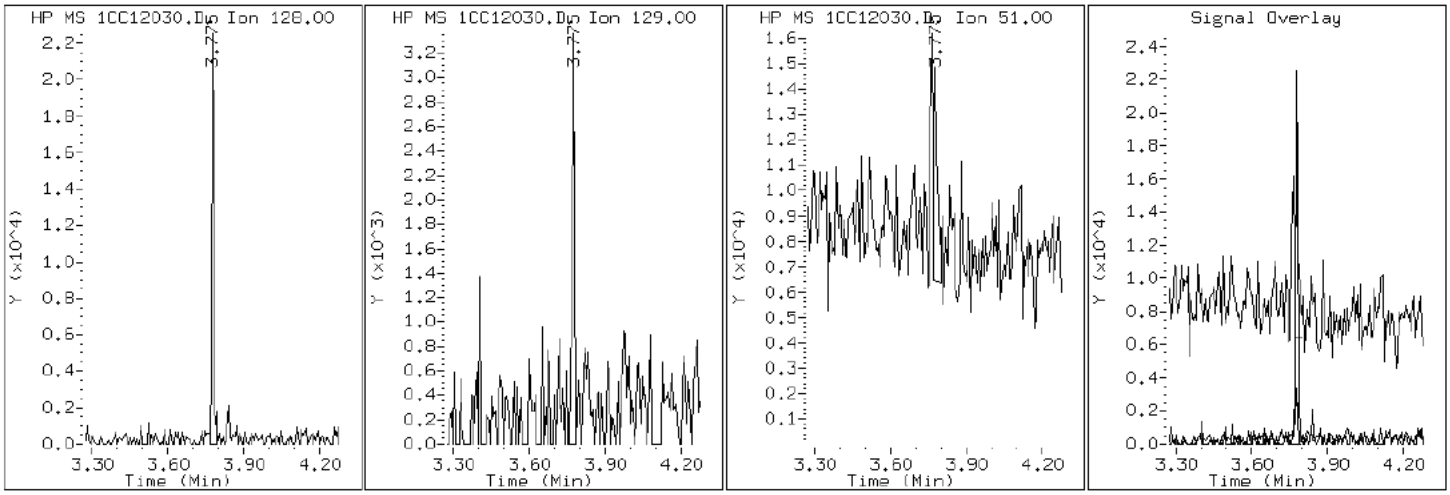
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

2 Naphthalene



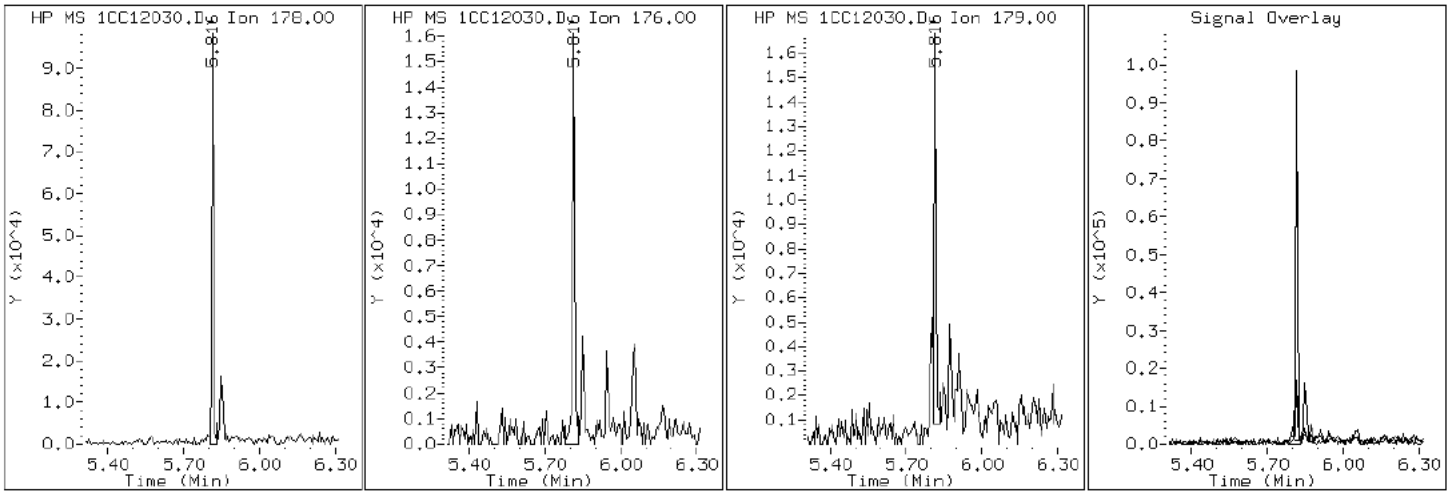
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

11 Phenanthrene



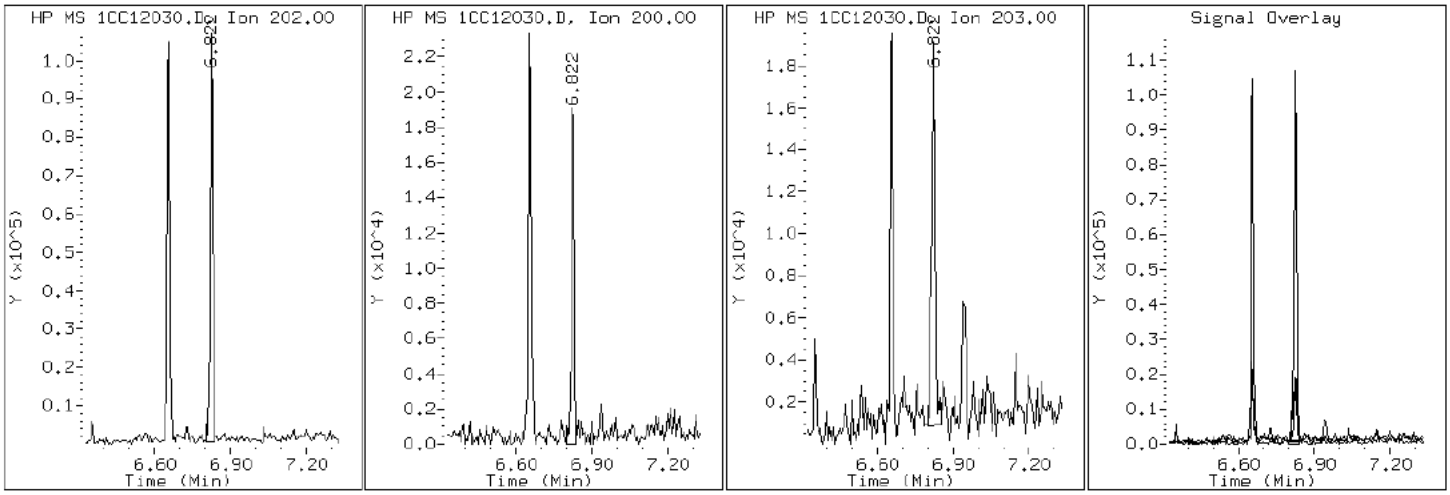
Data File: 1CC12030.D

Date: 12-MAR-2013 21:05

Client ID: CV0388B-CS Instrument: BSMC5973.i

Sample Info: 680-88067-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC12030.D
Inj. Date and Time: 12-MAR-2013 21:05
Instrument ID: BSMC5973.i
Client ID: CV0388B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/13/2013

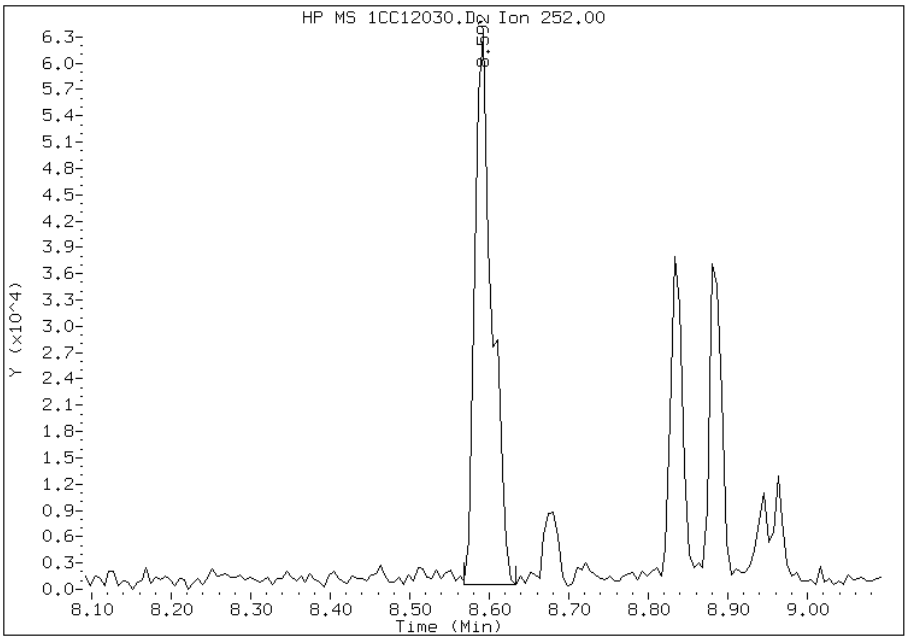
Processing Integration Results

RT: 8.59

Response: 94212

Amount: 2

Conc: 725



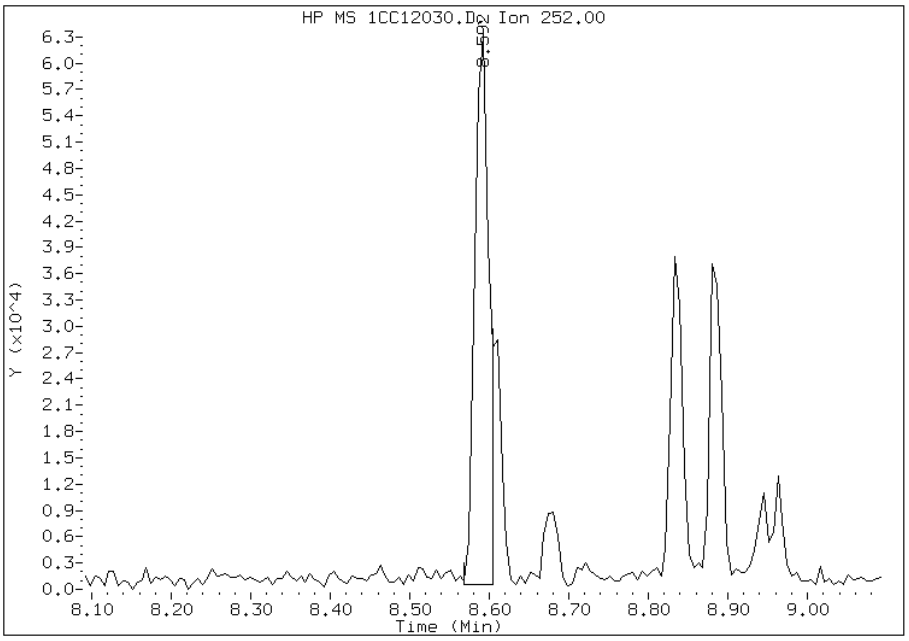
Manual Integration Results

RT: 8.59

Response: 77833

Amount: 2

Conc: 599



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC12030.D
Inj. Date and Time: 12-MAR-2013 21:05
Instrument ID: BSMC5973.i
Client ID: CV0388B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/13/2013

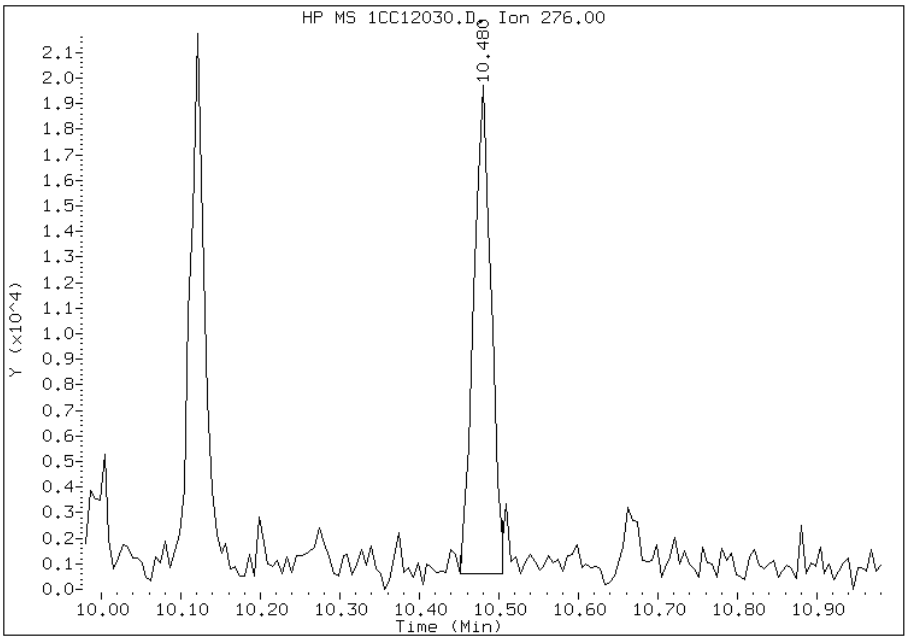
Processing Integration Results

RT: 10.48

Response: 28623

Amount: 1

Conc: 231



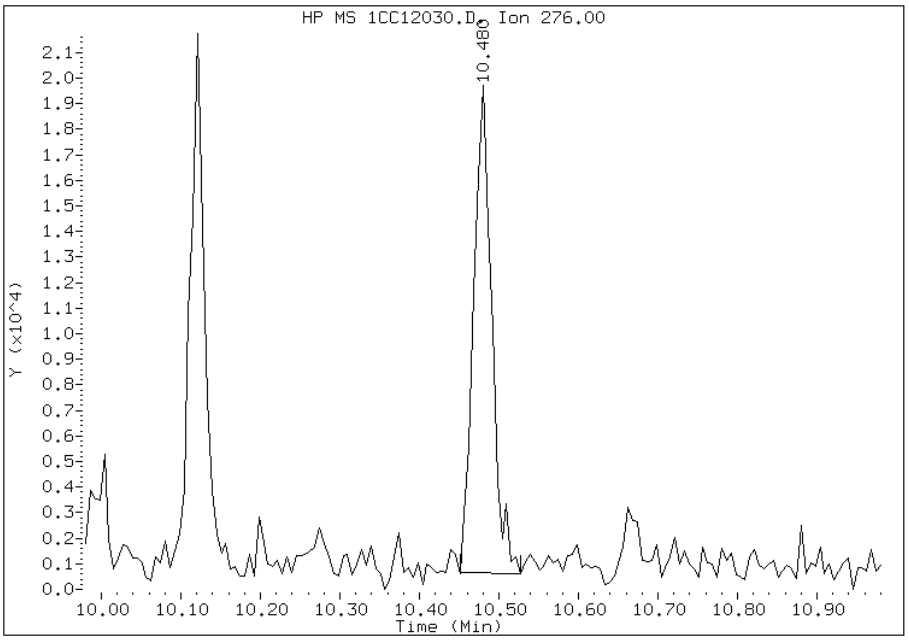
Manual Integration Results

RT: 10.48

Response: 29987

Amount: 1

Conc: 242



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12030.D
Inj. Date and Time: 12-MAR-2013 21:05
Instrument ID: BSMC5973.i
Client ID: CV0388B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/13/2013

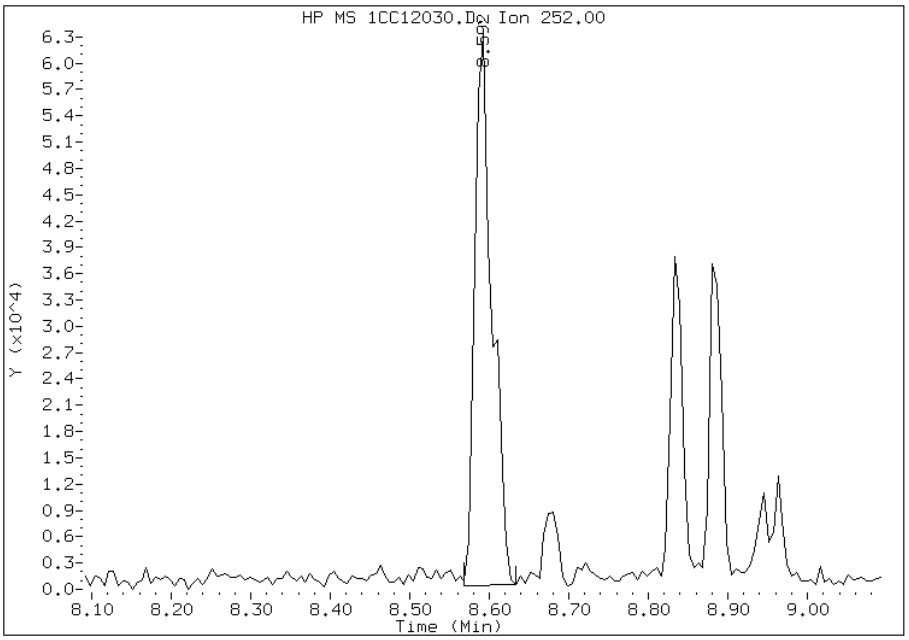
Processing Integration Results

RT: 8.59

Response: 94318

Amount: 2

Conc: 708



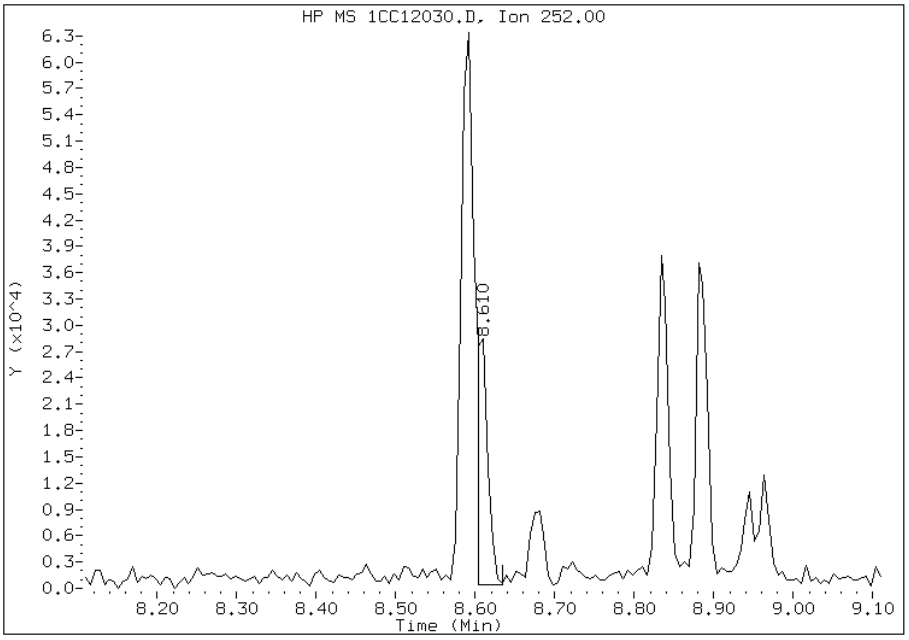
Manual Integration Results

RT: 8.61

Response: 26107

Amount: 1

Conc: 196



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12030.D
Inj. Date and Time: 12-MAR-2013 21:05
Instrument ID: BSMC5973.i
Client ID: CV0388B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/13/2013

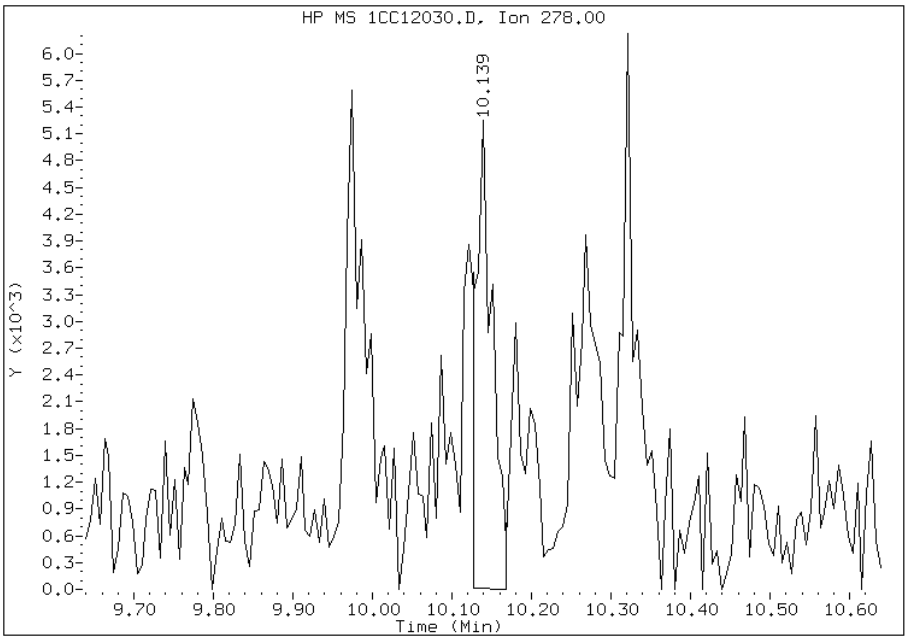
Processing Integration Results

RT: 10.14

Response: 7636

Amount: 0

Conc: 66



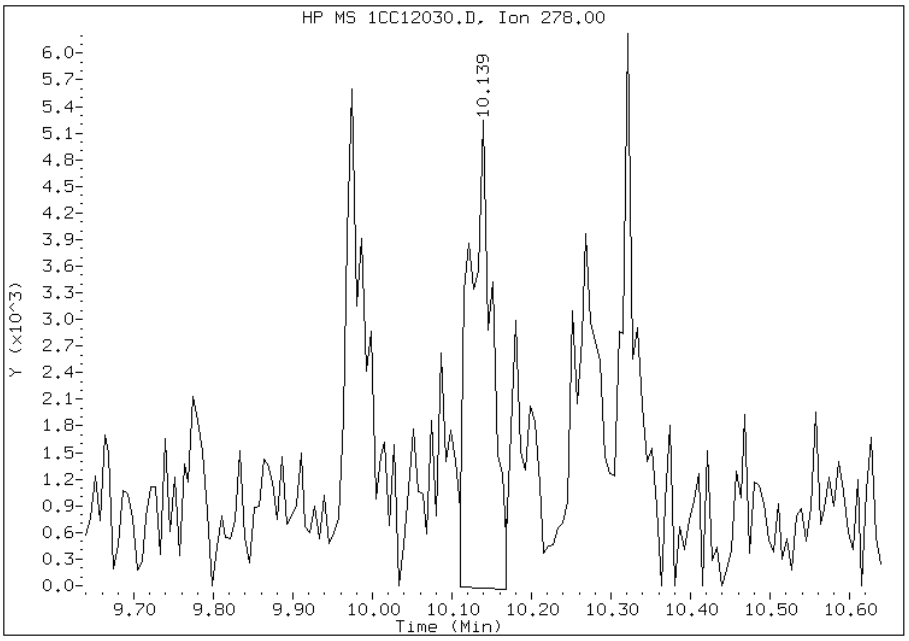
Manual Integration Results

RT: 10.14

Response: 10600

Amount: 0

Conc: 91



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 17:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC12030.D
Inj. Date and Time: 12-MAR-2013 21:05
Instrument ID: BSMC5973.i
Client ID: CV0388B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/13/2013

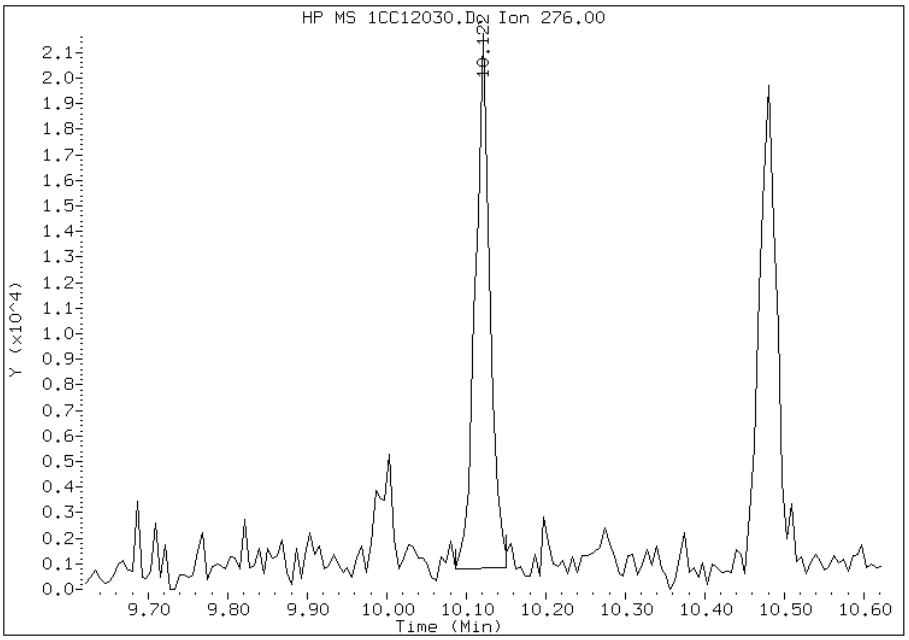
Processing Integration Results

RT: 10.12

Response: 26450

Amount: 1

Conc: 223



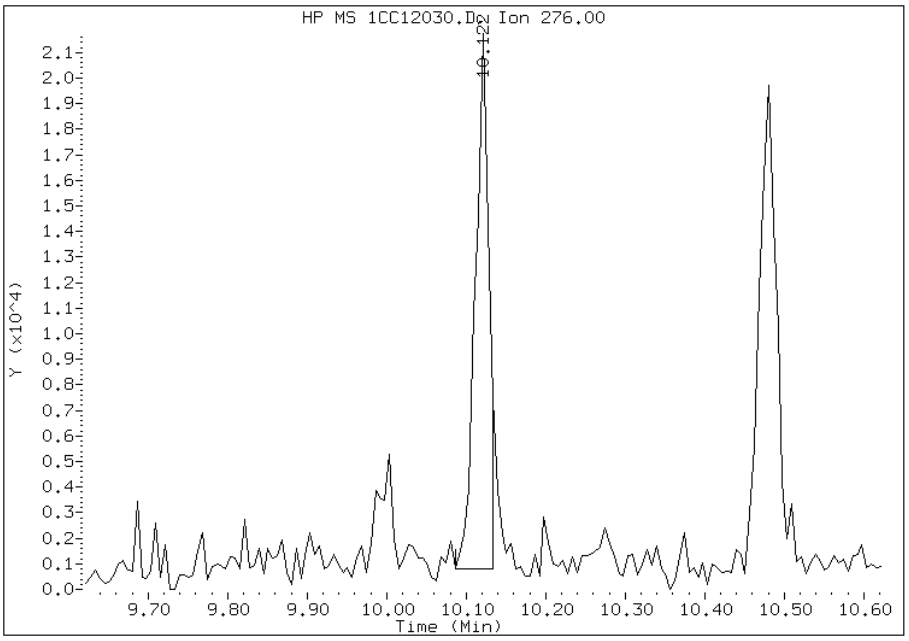
Manual Integration Results

RT: 10.12

Response: 24704

Amount: 1

Conc: 208



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0341A-CS-SP | Lab Sample ID: 680-88067-19

Matrix: Solid | Lab File ID: 1CC14015.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 13:07

Extract. Method: 3546 | Date Extracted: 03/13/2013 12:00

Sample wt/vol: 15.23(g) | Date Analyzed: 03/14/2013 15:15

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

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

% Moisture: 32.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135453 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	52	J	58	7.3
120-12-7	Anthracene	31		12	6.1
56-55-3	Benzo[a]anthracene	190		12	5.7
50-32-8	Benzo[a]pyrene	220		15	7.6
205-99-2	Benzo[b]fluoranthene	370		18	8.9
191-24-2	Benzo[g,h,i]perylene	160		29	6.4
207-08-9	Benzo[k]fluoranthene	150		12	5.3
218-01-9	Chrysene	250		13	6.6
53-70-3	Dibenz(a,h)anthracene	55		29	6.0
206-44-0	Fluoranthene	250		29	5.8
86-73-7	Fluorene	14	J	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	130		29	10
90-12-0	1-Methylnaphthalene	120		58	6.4
91-57-6	2-Methylnaphthalene	150		58	10
91-20-3	Naphthalene	140		58	6.4
85-01-8	Phenanthrene	150		12	5.7
129-00-0	Pyrene	250		29	5.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14015.D
Lab Smp Id: 680-88067-A-19-A Client Smp ID: CV0341A-CS-SP
Inj Date : 14-MAR-2013 15:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-19-a
Misc Info : 680-88067-A-19-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.230	Weight Extracted
M	32.540	% 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	3.751	3.751	(1.000)	1003997	40.0000	
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	803564	40.0000	
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1491810	40.0000	
$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	149711	6.64679	646.9399
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1608332	40.0000	
* 23 Perylene-d12	264	8.921	8.927	(1.000)	1518561	40.0000	
2 Naphthalene	128	3.768	3.768	(1.005)	36738	1.40555	136.8036
3 2-Methylnaphthalene	142	4.192	4.192	(1.118)	27357	1.56908	152.7200
4 1-Methylnaphthalene	142	4.257	4.257	(1.135)	19141	1.20541	117.3243
5 Acenaphthylene	152	4.757	4.751	(0.983)	17448	0.53857	52.4191
9 Fluorene	166	5.180	5.180	(1.070)	3656	0.14356	13.9729(Q)
11 Phenanthrene	178	5.804	5.804	(1.003)	67359	1.56153	151.9854
12 Anthracene	178	5.839	5.839	(1.009)	13554	0.32128	31.2707
13 Carbazole	167	5.945	5.945	(1.027)	10417	0.27778	27.0361

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	119166	2.52258	245.5254
16 Pyrene	202	6.809	6.809	(0.881)	111707	2.58452	251.5539
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	90426	1.94801	189.6024
19 Chrysene	228	7.751	7.751	(1.002)	119503	2.57248	250.3821
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	150844	3.80097	369.9527(M)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	62645	1.53876	149.7693(M)
22 Benzo(a)pyrene	252	8.862	8.868	(0.993)	87348	2.26597	220.5492
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.132)	48322	1.33256	129.6995(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.121	(1.133)	20223	0.57015	55.4929
26 Benzo(g,h,i)perylene	276	10.450	10.456	(1.171)	62883	1.65771	161.3467

QC Flag Legend

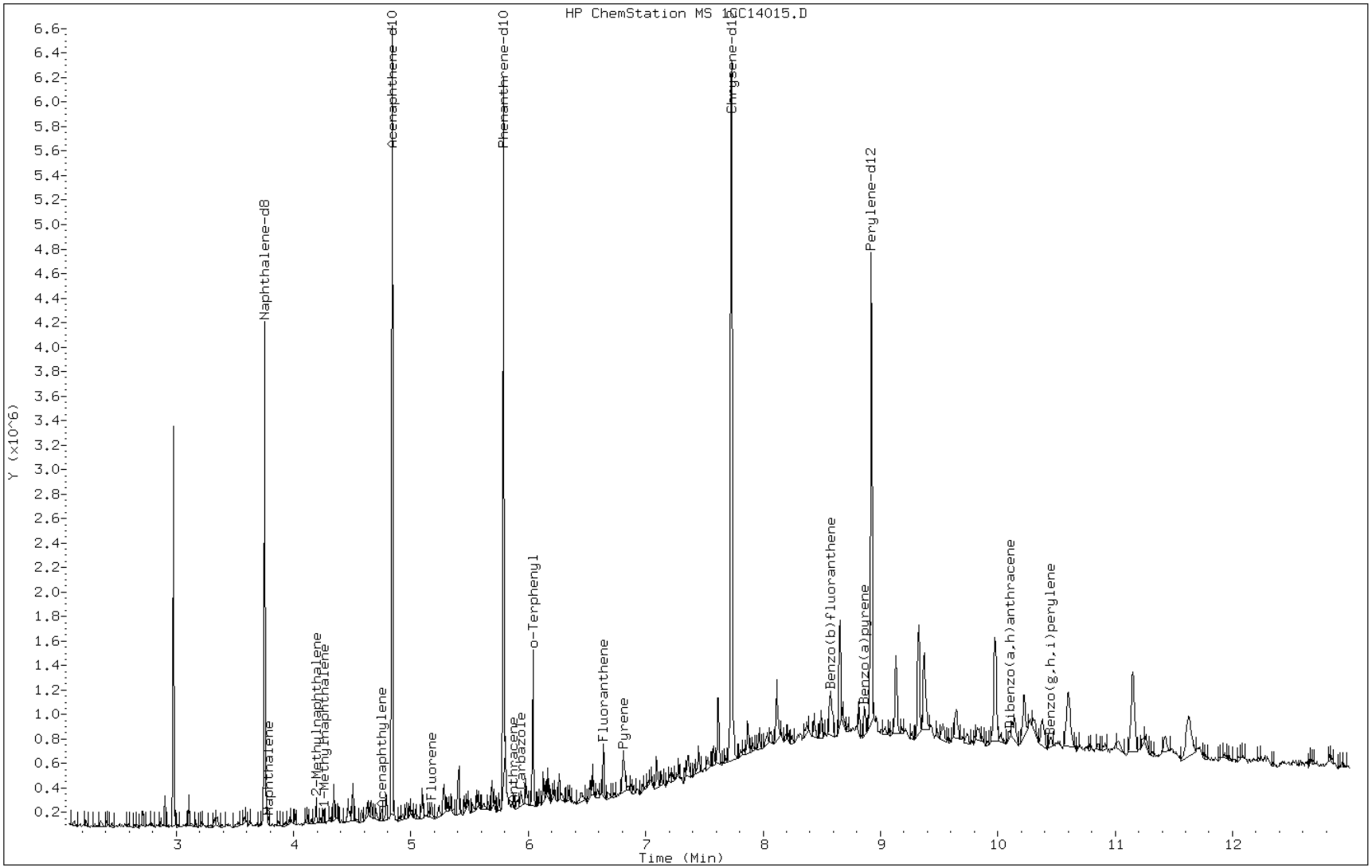
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC



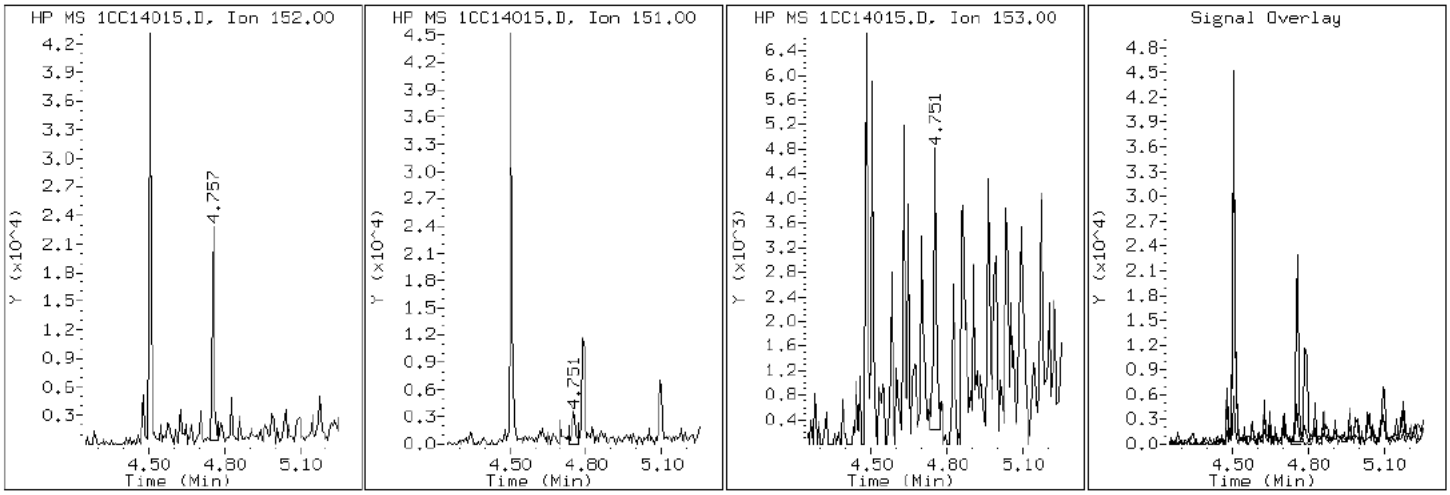
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

5 Acenaphthylene



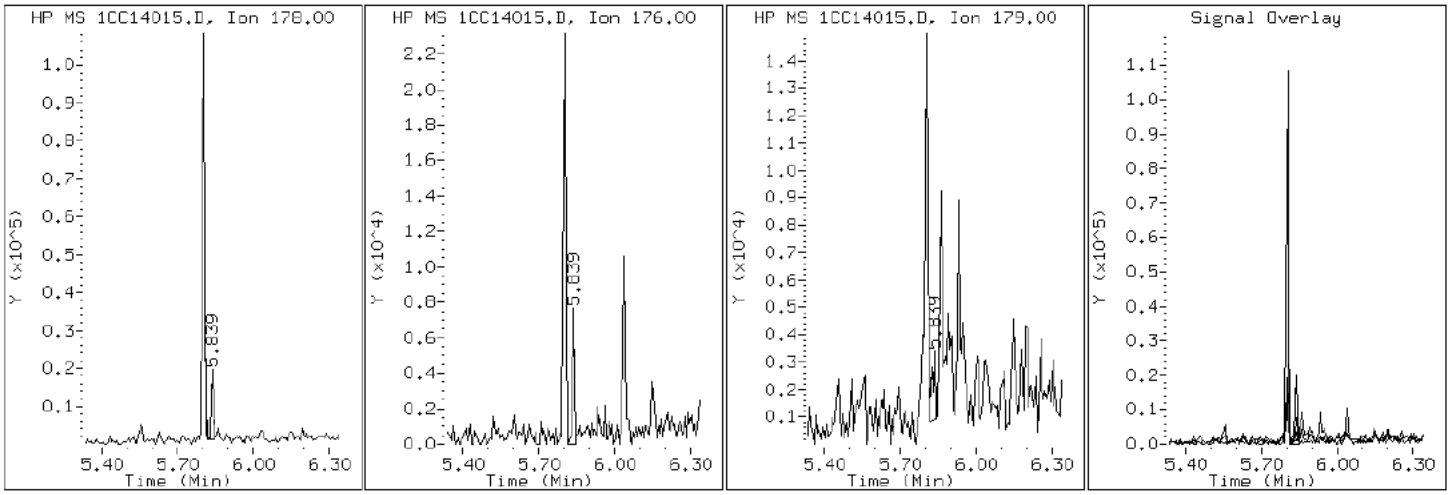
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

12 Anthracene



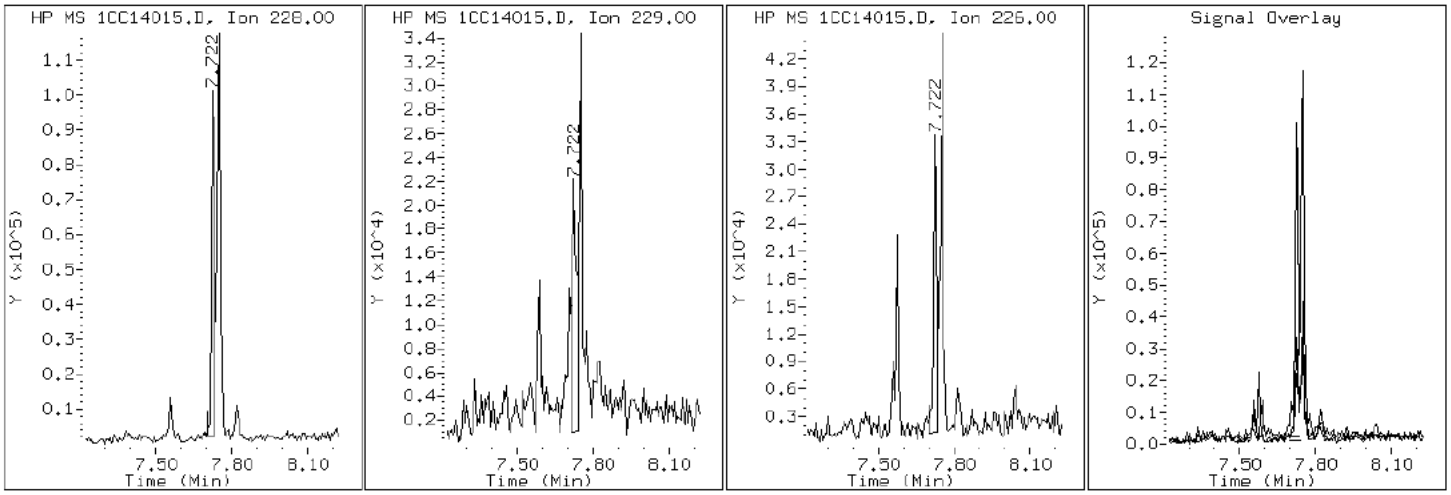
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

17 Benzo(a)anthracene



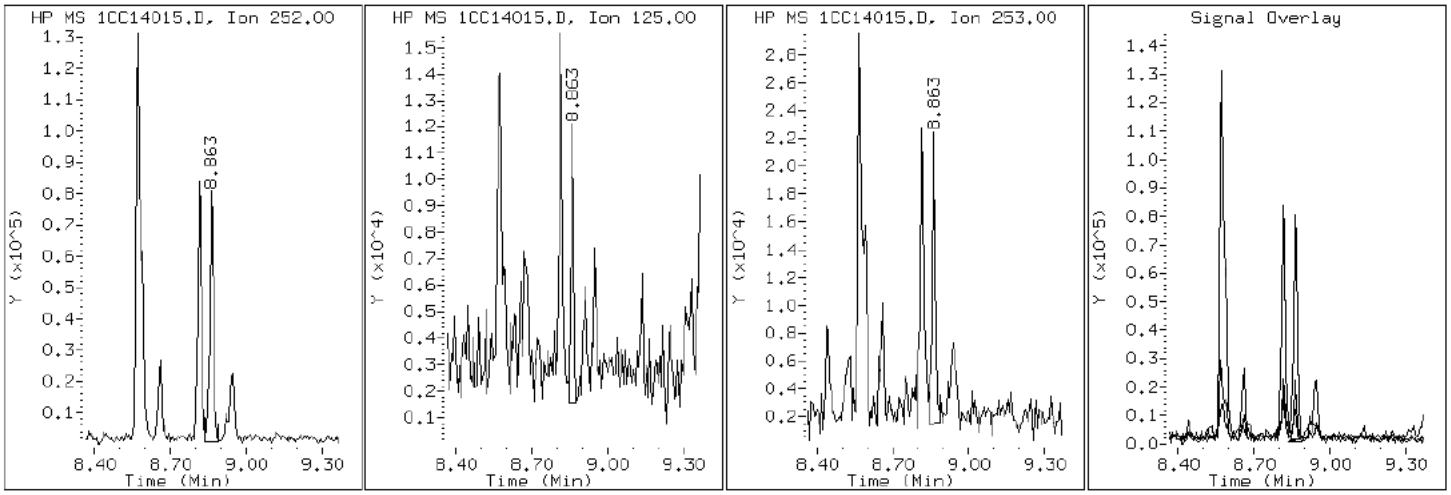
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

22 Benzo(a)pyrene



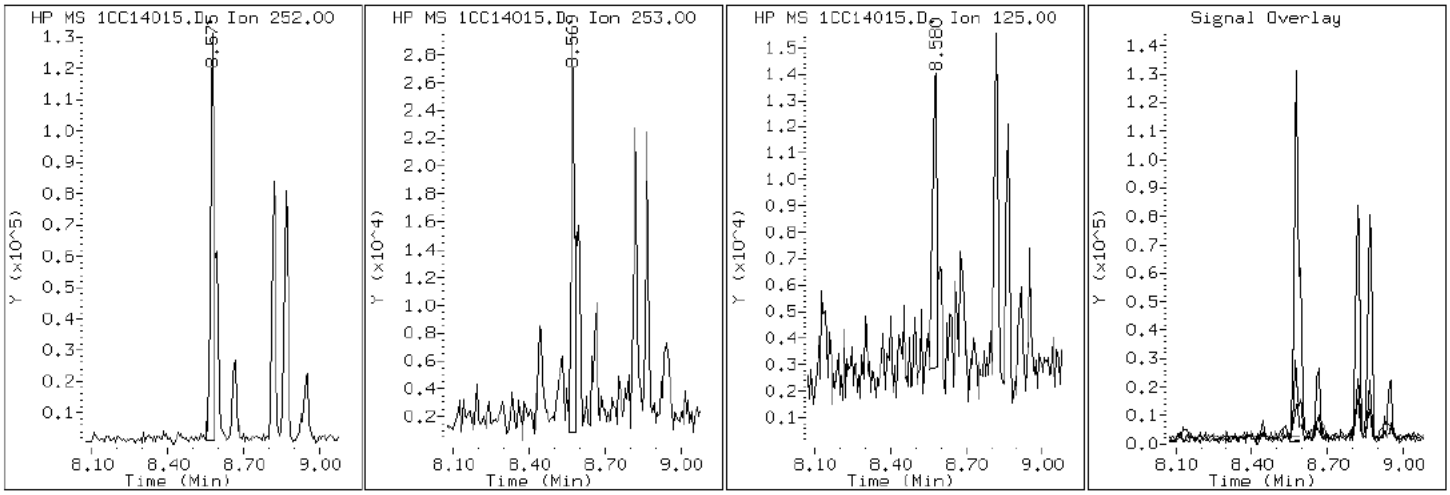
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



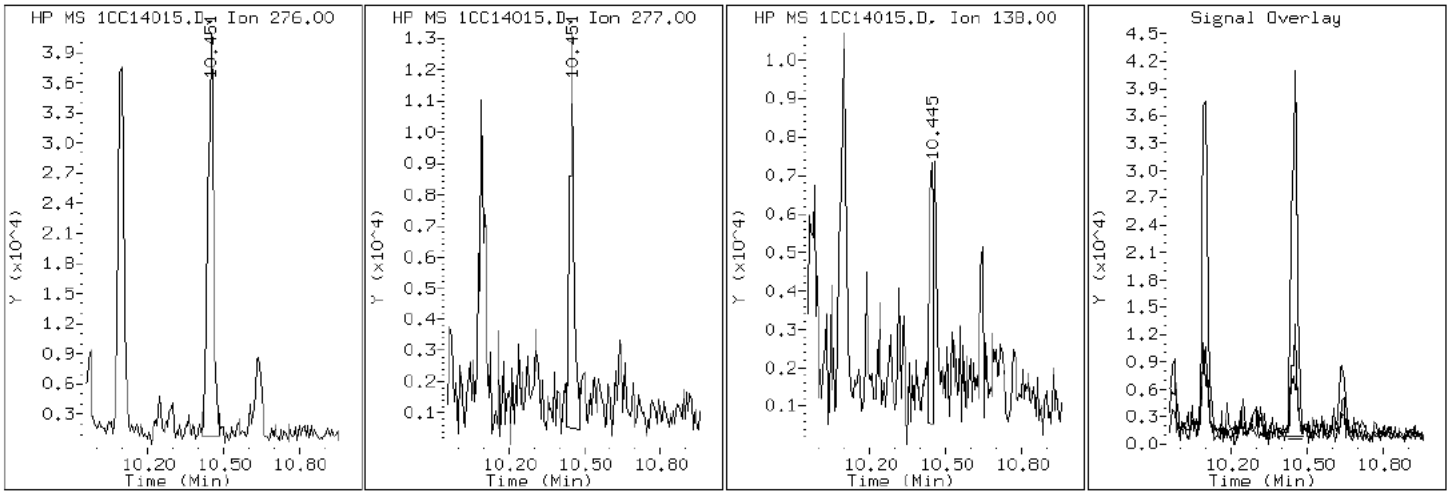
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



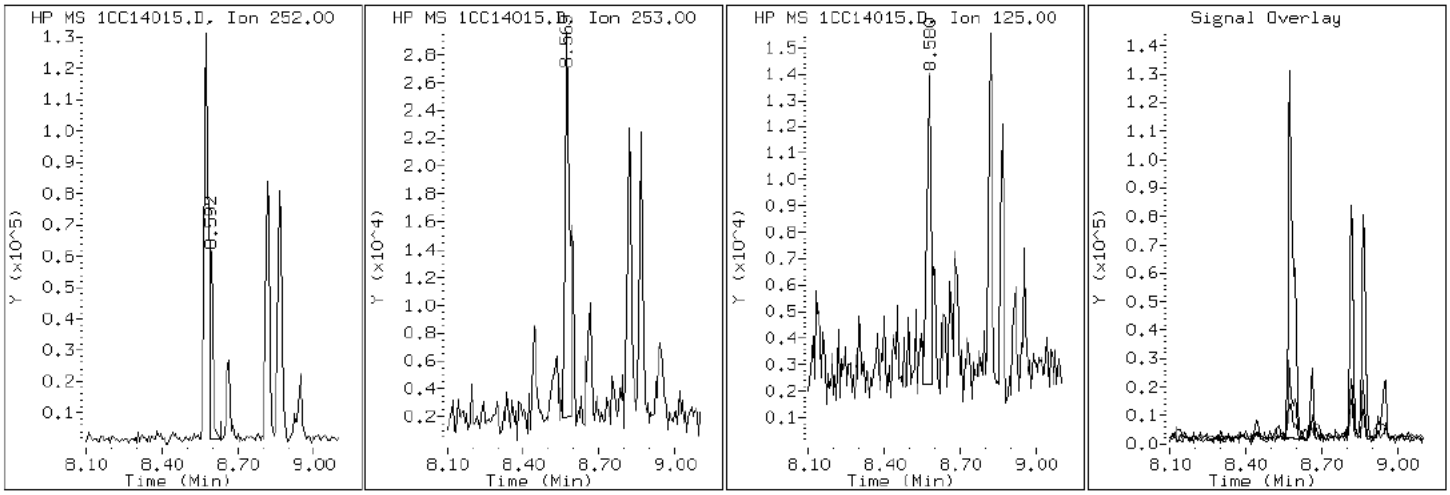
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



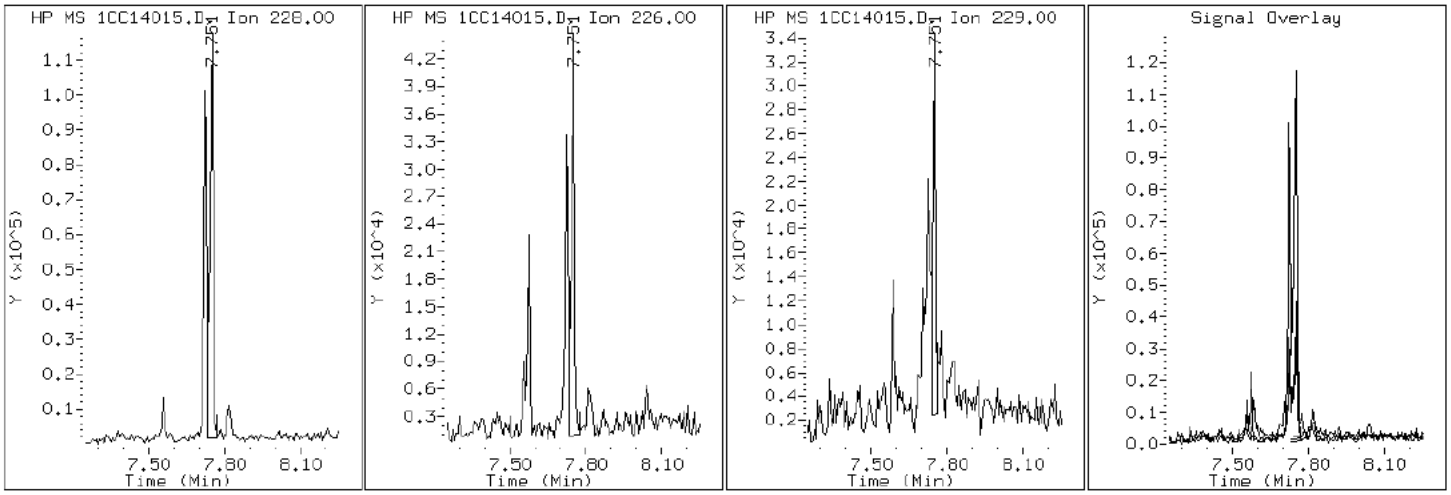
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

19 Chrysene



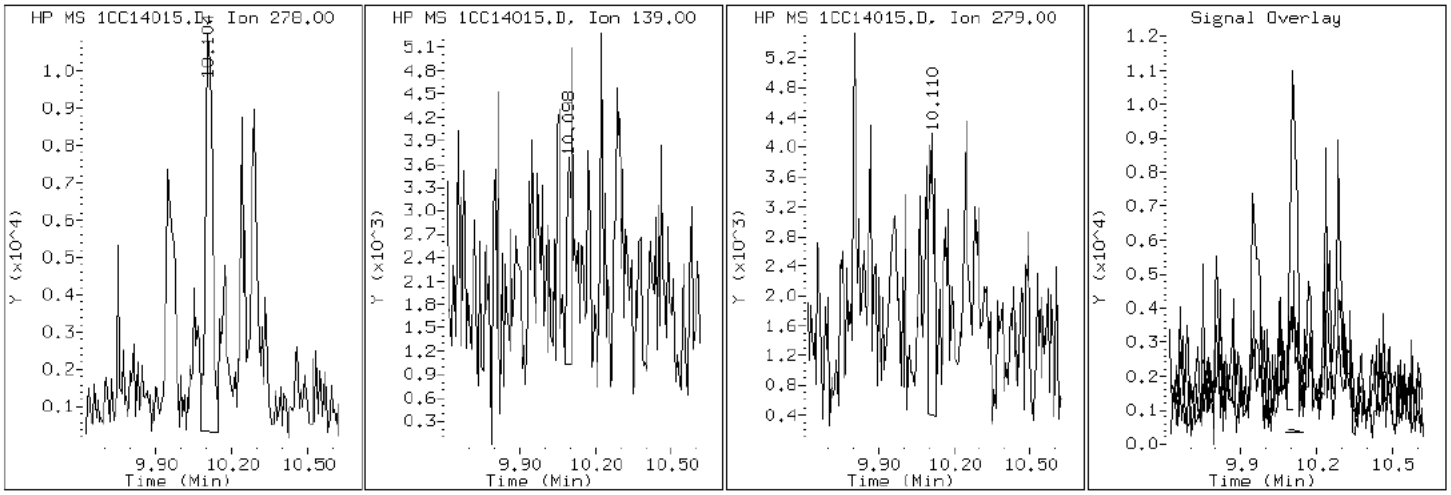
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



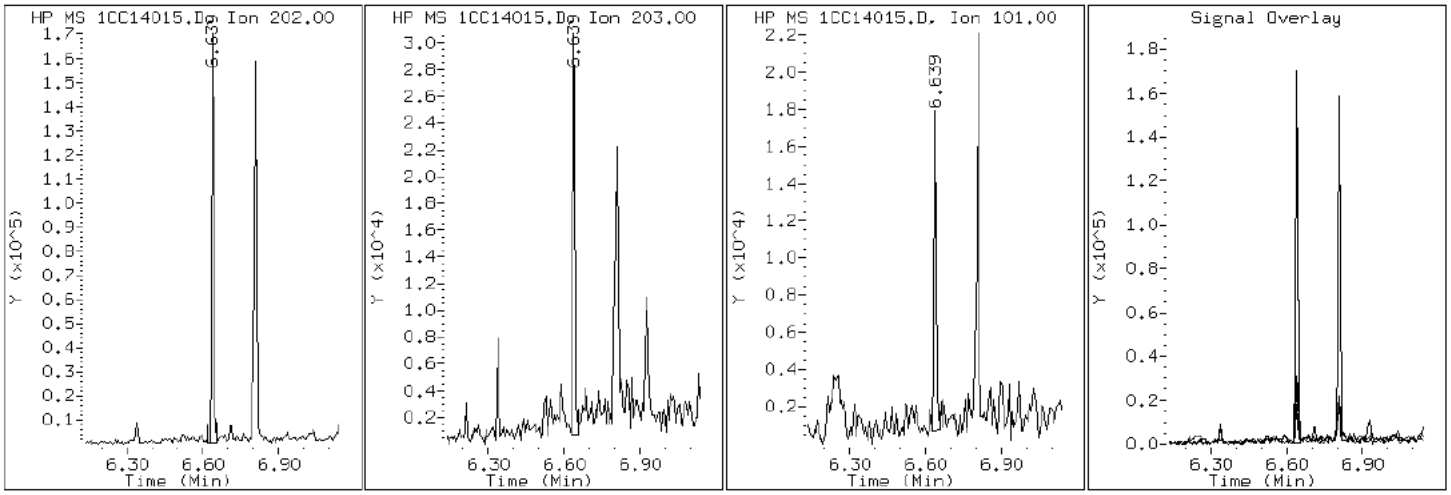
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

15 Fluoranthene



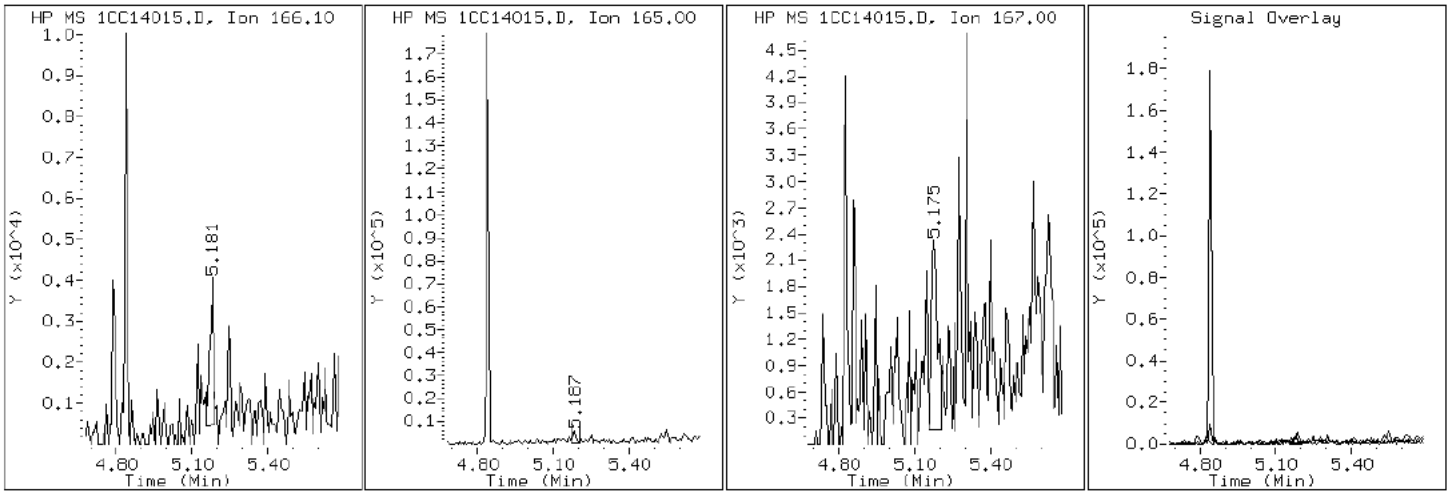
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

9 Fluorene



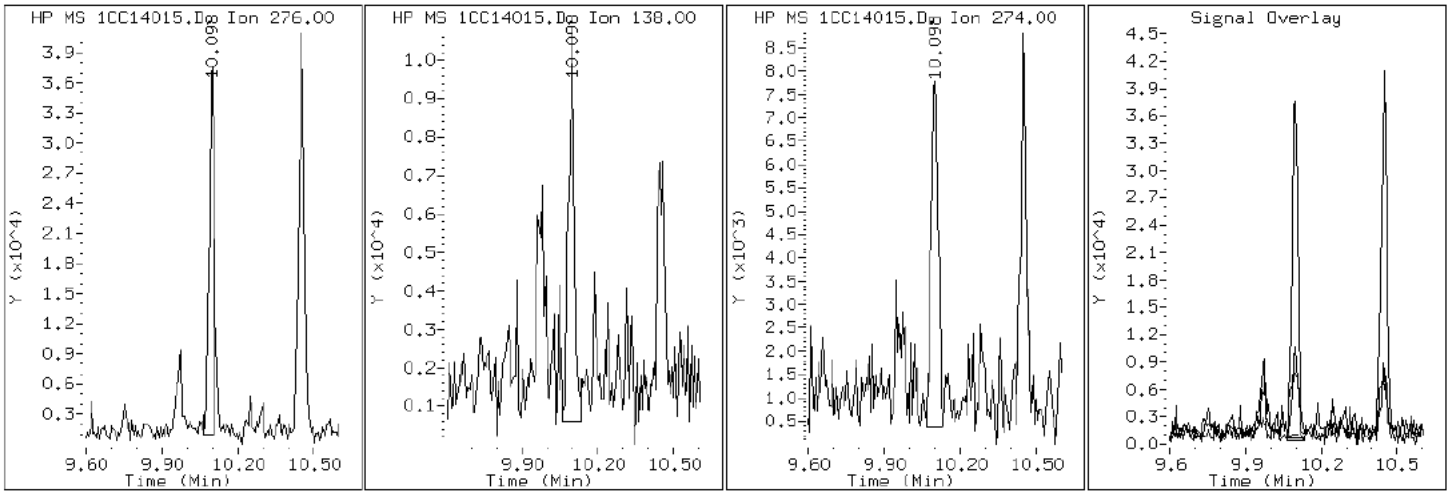
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

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



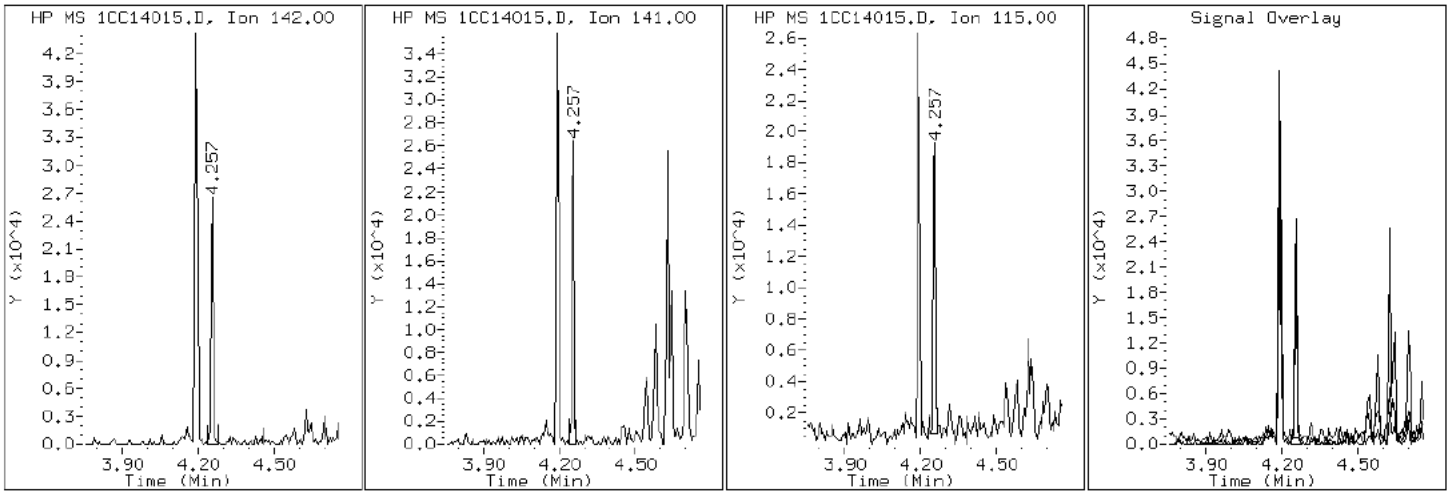
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

4 1-Methylnaphthalene



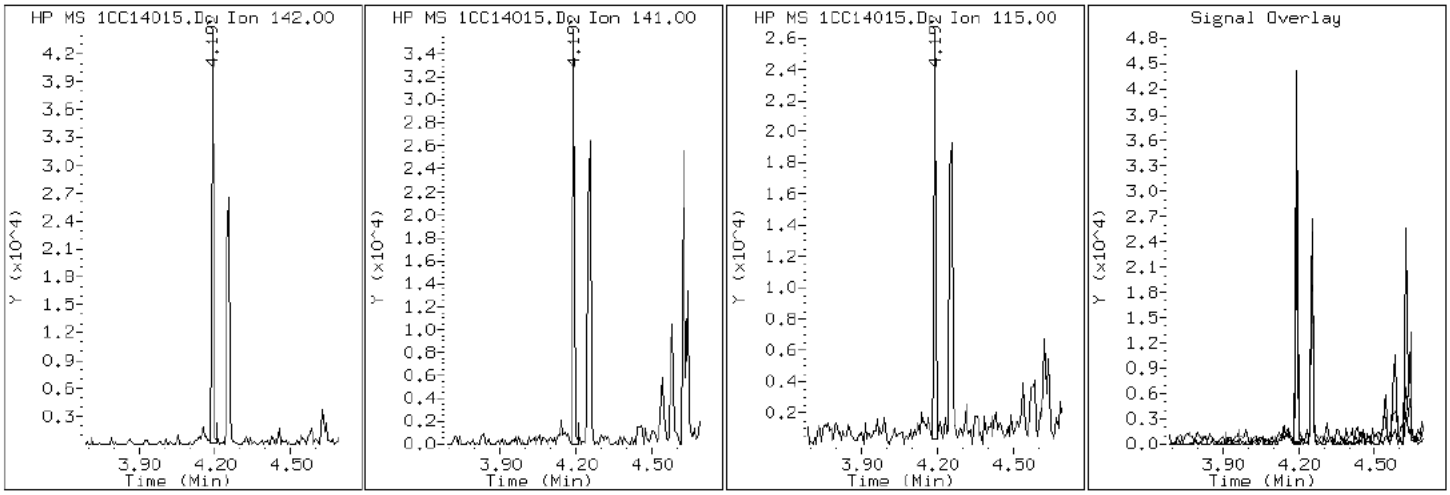
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

3 2-Methylnaphthalene



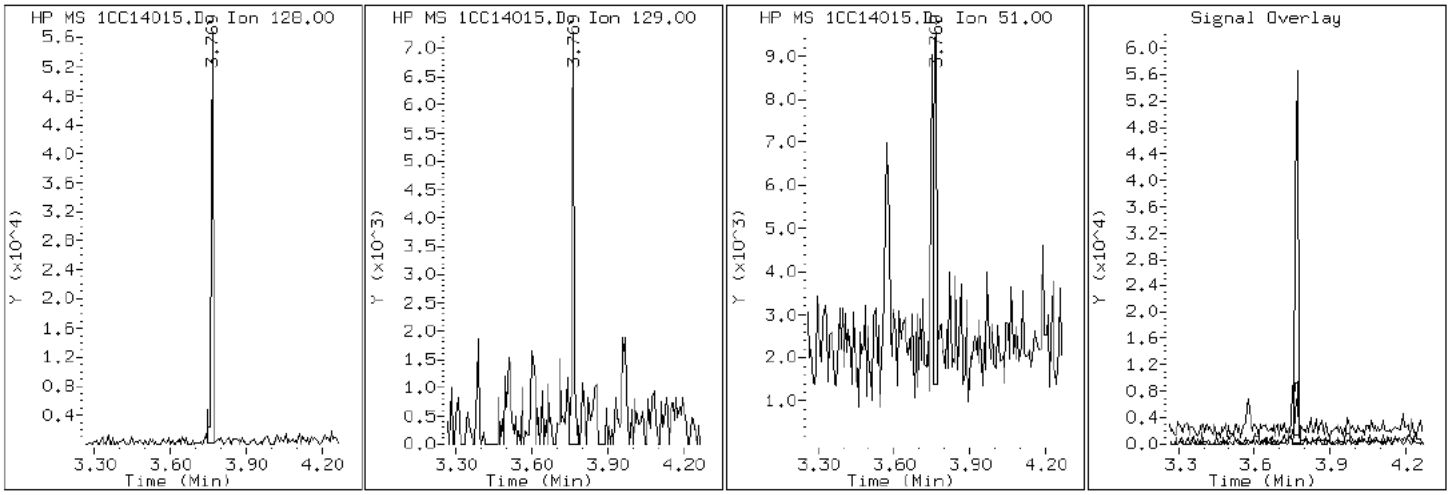
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

2 Naphthalene



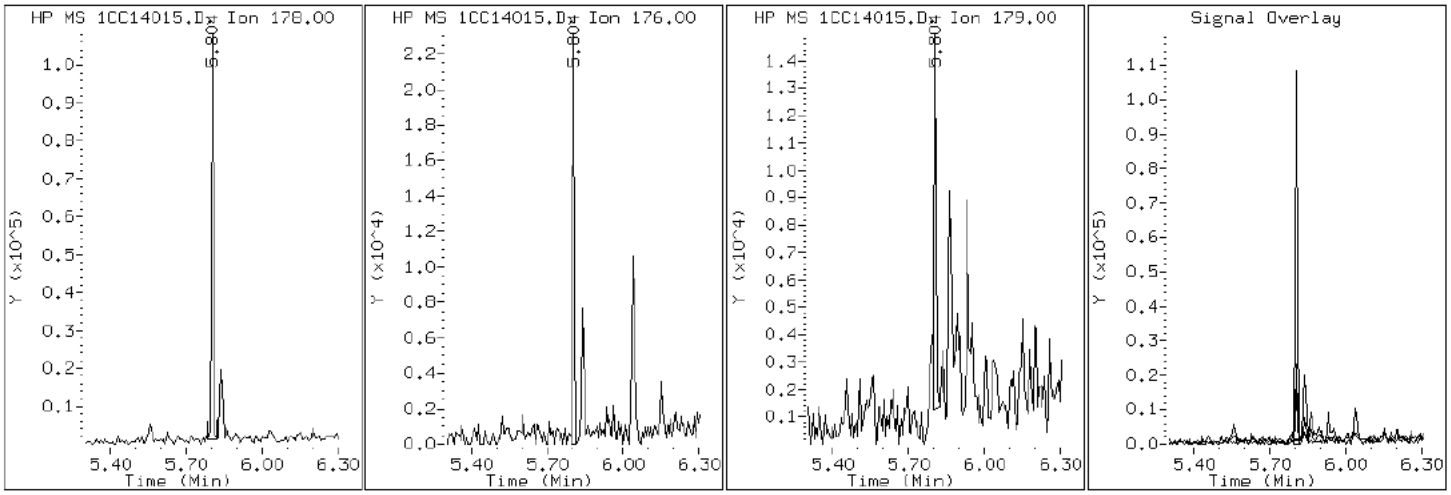
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

11 Phenanthrene



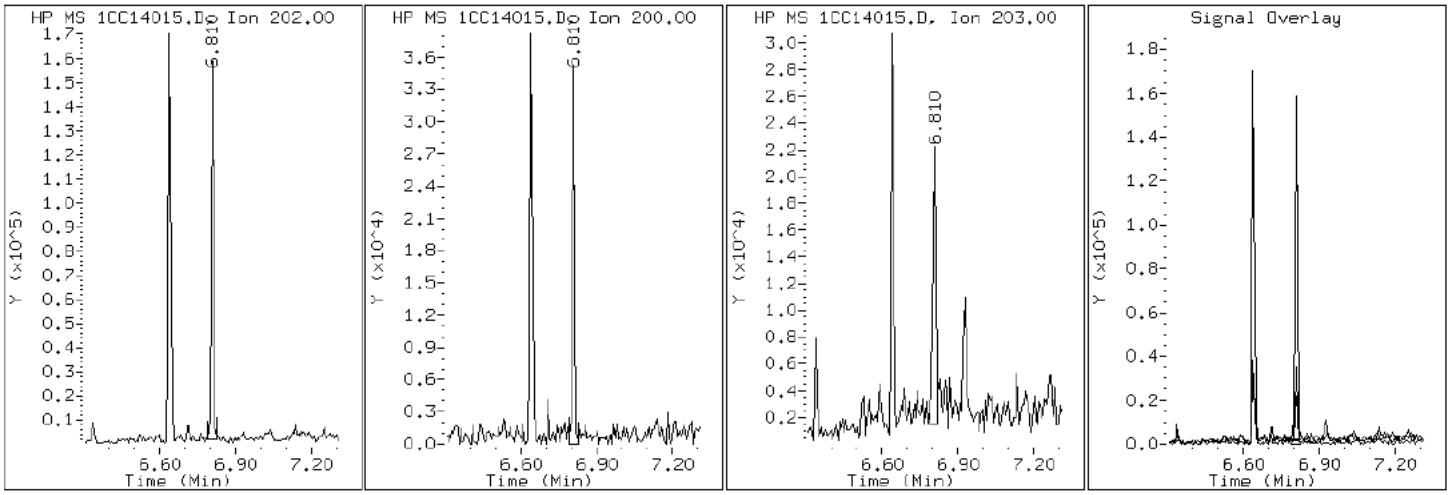
Data File: 1CC14015.D

Date: 14-MAR-2013 15:15

Client ID: CV0341A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC14015.D
Inj. Date and Time: 14-MAR-2013 15:15
Instrument ID: BSMC5973.i
Client ID: CV0341A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

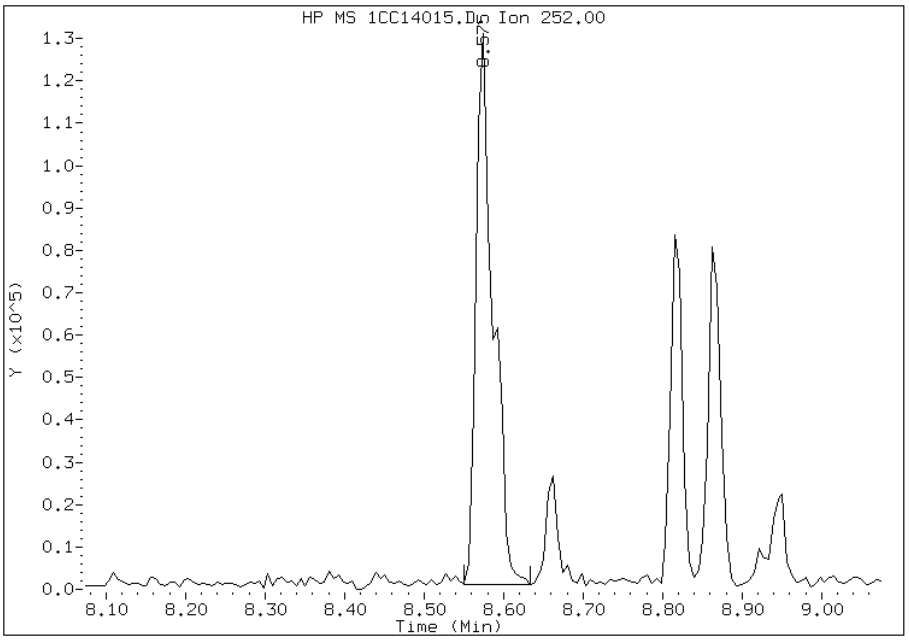
Processing Integration Results

RT: 8.57

Response: 194313

Amount: 5

Conc: 477



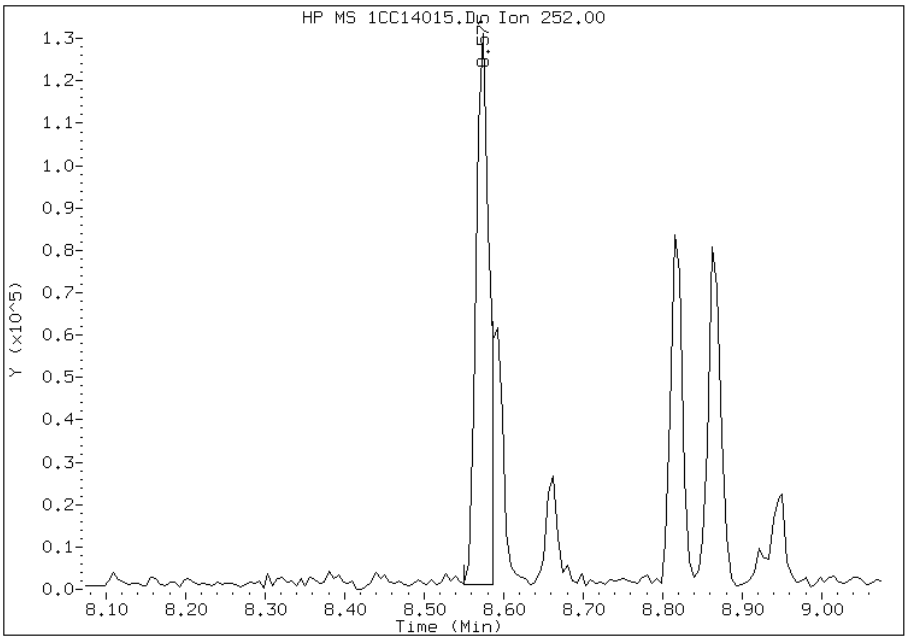
Manual Integration Results

RT: 8.57

Response: 150844

Amount: 4

Conc: 370



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14015.D
Inj. Date and Time: 14-MAR-2013 15:15
Instrument ID: BSMC5973.i
Client ID: CV0341A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

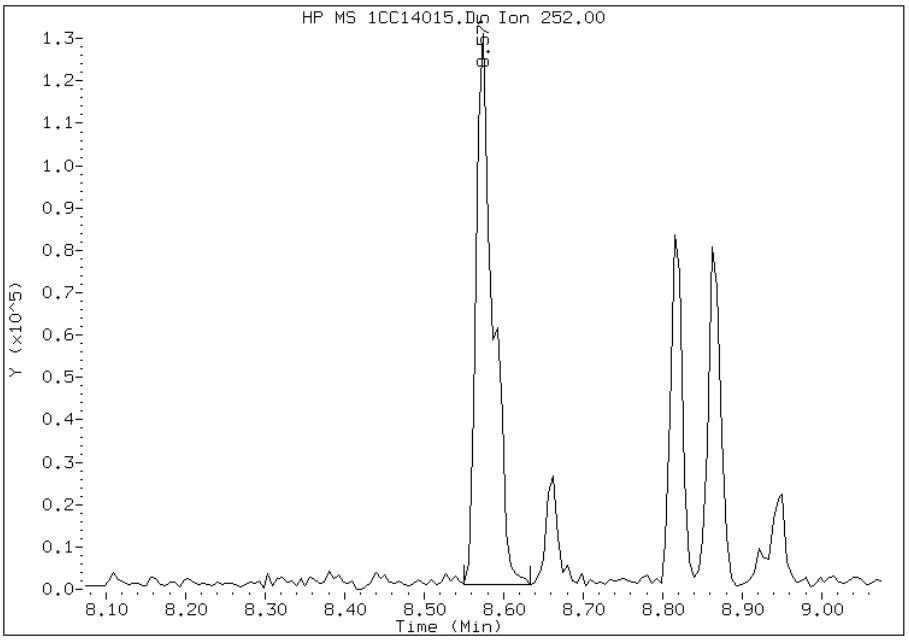
Processing Integration Results

RT: 8.57

Response: 194305

Amount: 5

Conc: 465



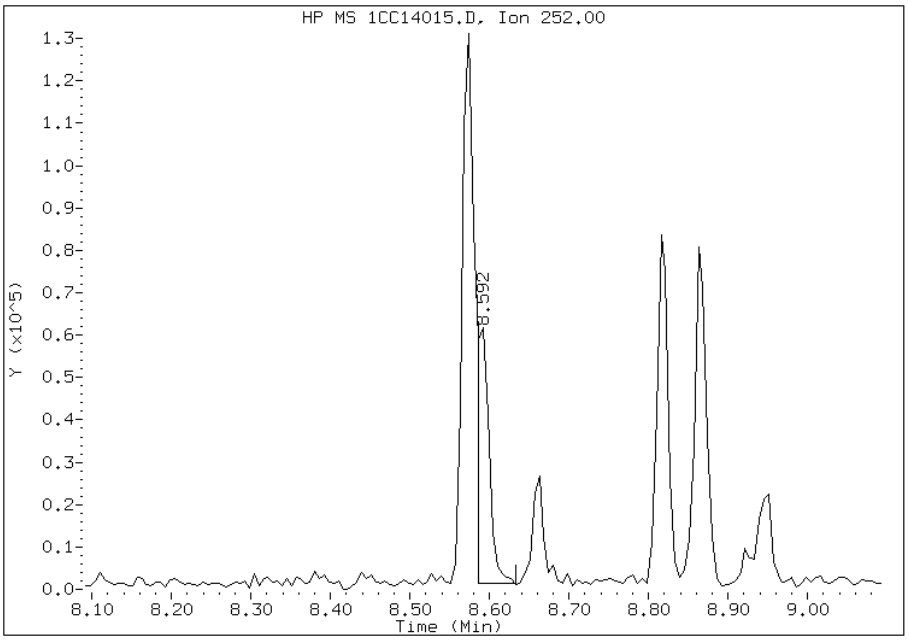
Manual Integration Results

RT: 8.59

Response: 62645

Amount: 2

Conc: 150



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14015.D
Inj. Date and Time: 14-MAR-2013 15:15
Instrument ID: BSMC5973.i
Client ID: CV0341A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

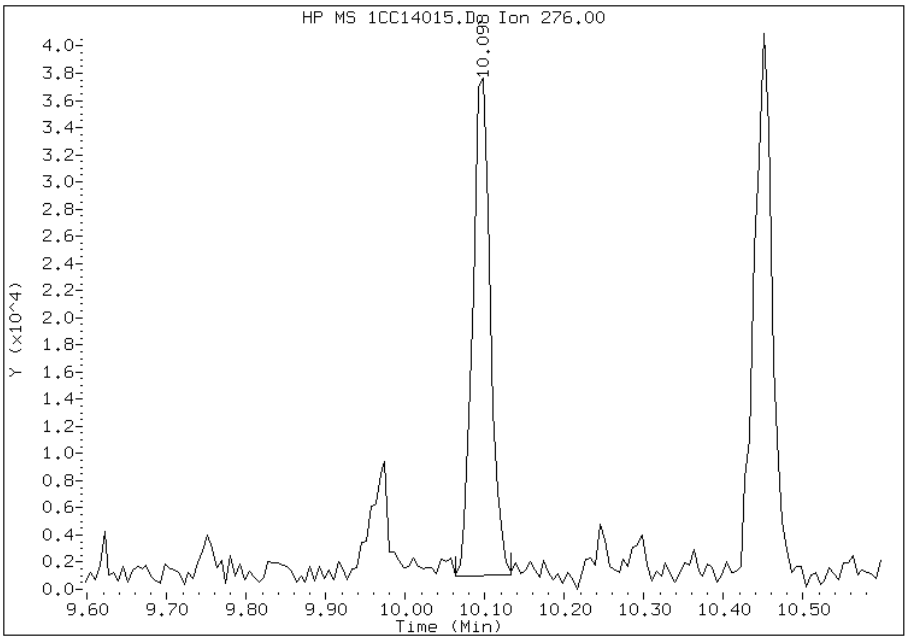
Processing Integration Results

RT: 10.10

Response: 56208

Amount: 2

Conc: 151



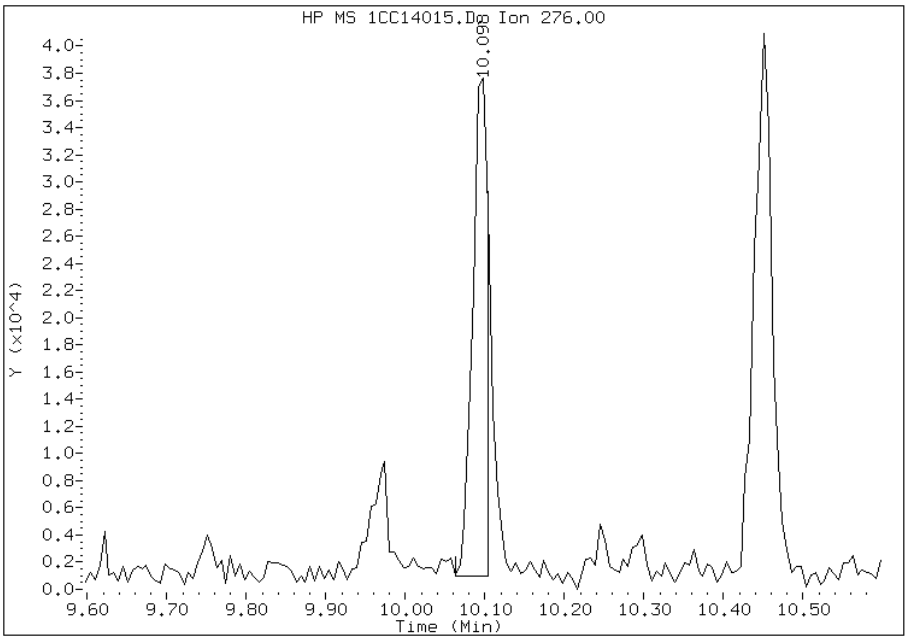
Manual Integration Results

RT: 10.10

Response: 48322

Amount: 1

Conc: 130



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0341B-CS-SP | Lab Sample ID: 680-88067-20

Matrix: Solid | Lab File ID: 1CC14016.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 13:15

Extract. Method: 3546 | Date Extracted: 03/13/2013 12:00

Sample wt/vol: 15.19(g) | Date Analyzed: 03/14/2013 15:33

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

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

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135453 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	600	U	600	120
208-96-8	Acenaphthylene	93	J	240	30
120-12-7	Anthracene	69		51	25
56-55-3	Benzo[a]anthracene	600		48	24
50-32-8	Benzo[a]pyrene	830		63	31
205-99-2	Benzo[b]fluoranthene	1500		74	37
191-24-2	Benzo[g,h,i]perylene	1400		120	27
207-08-9	Benzo[k]fluoranthene	610		48	22
218-01-9	Chrysene	780		54	27
53-70-3	Dibenz(a,h)anthracene	360		120	25
206-44-0	Fluoranthene	970		120	24
86-73-7	Fluorene	36	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	970		120	43
90-12-0	1-Methylnaphthalene	99	J	240	27
91-57-6	2-Methylnaphthalene	130	J	240	43
91-20-3	Naphthalene	200	J	240	27
85-01-8	Phenanthrene	520		48	24
129-00-0	Pyrene	920		120	22

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\1C031413.b\1CC14016.D
Lab Smp Id: 680-88067-A-20-A Client Smp ID: CV0341B-CS-SP
Inj Date : 14-MAR-2013 15:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-20-a
Misc Info : 680-88067-A-20-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	34.698	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.751	3.751	(1.000)	1068115	40.0000	
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	872556	40.0000	
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1615767	40.0000	
$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	39351	1.61305	650.4691
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1732892	40.0000	
* 23 Perylene-d12	264	8.921	8.927	(1.000)	1666452	40.0000	
2 Naphthalene	128	3.769	3.768	(1.005)	13648	0.49081	197.9207(Q)
3 2-Methylnaphthalene	142	4.192	4.192	(1.118)	5910	0.31862	128.4859
4 1-Methylnaphthalene	142	4.251	4.257	(1.133)	4147	0.24548	98.9914
5 Acenaphthylene	152	4.751	4.751	(0.982)	8148	0.23162	93.4003
9 Fluorene	166	5.180	5.180	(1.070)	2495	0.09023	36.3836
11 Phenanthrene	178	5.804	5.804	(1.003)	60484	1.29458	522.0443
12 Anthracene	178	5.839	5.839	(1.009)	7809	0.17090	68.9169
13 Carbazole	167	5.945	5.945	(1.027)	11320	0.27870	112.3853

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	122813	2.40033	967.9417
16 Pyrene	202	6.810	6.809	(0.881)	106529	2.28755	922.4624
17 Benzo(a)anthracene	228	7.727	7.721	(0.999)	73990	1.47937	596.5594
19 Chrysene	228	7.751	7.751	(1.002)	96629	1.93057	778.5062
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	156880	3.60225	1452.6171(M)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	67400	1.50864	608.3616(M)
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	87013	2.05695	829.4725
24 Indeno(1,2,3-cd)pyrene	276	10.098	10.097	(1.132)	95623	2.40294	968.9945(M)
25 Dibenzo(a,h)anthracene	278	10.109	10.121	(1.133)	34401	0.88379	356.3926
26 Benzo(g,h,i)perylene	276	10.451	10.456	(1.171)	140351	3.37156	1359.5897

QC Flag Legend

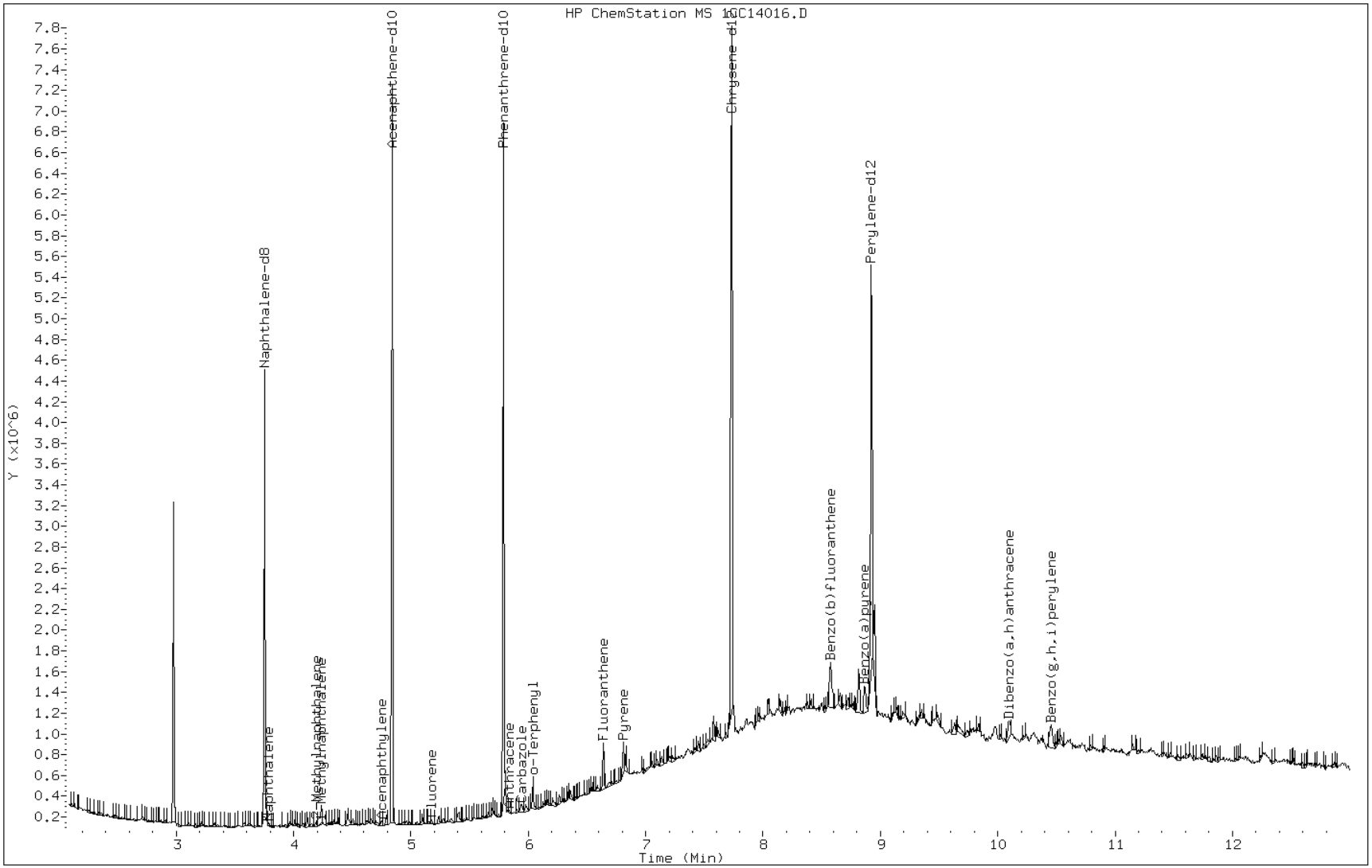
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC



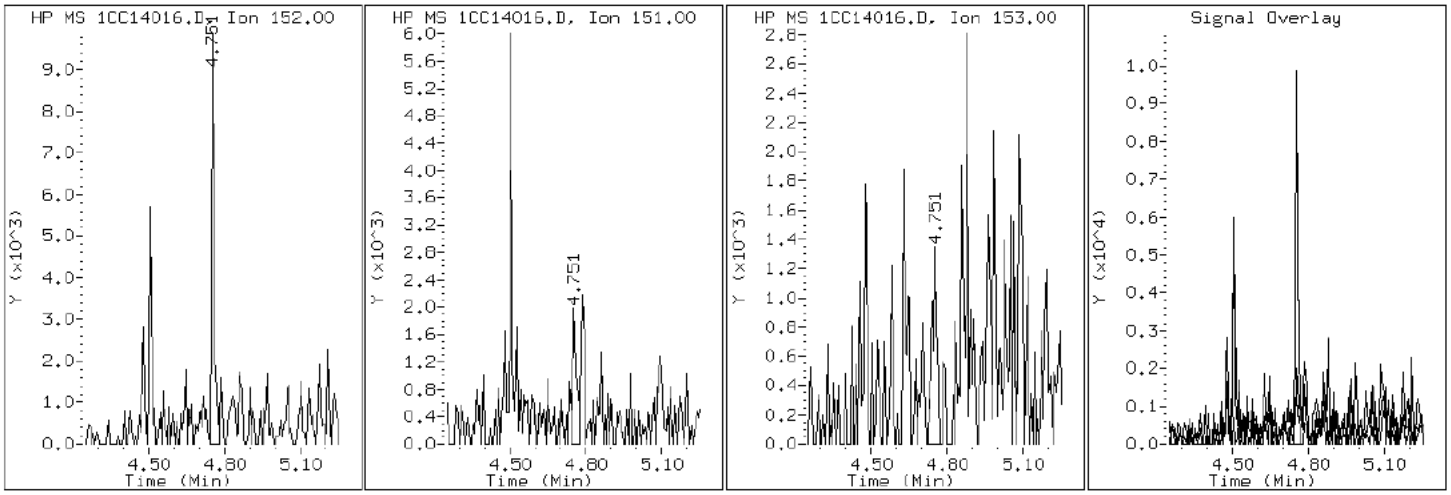
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

5 Acenaphthylene



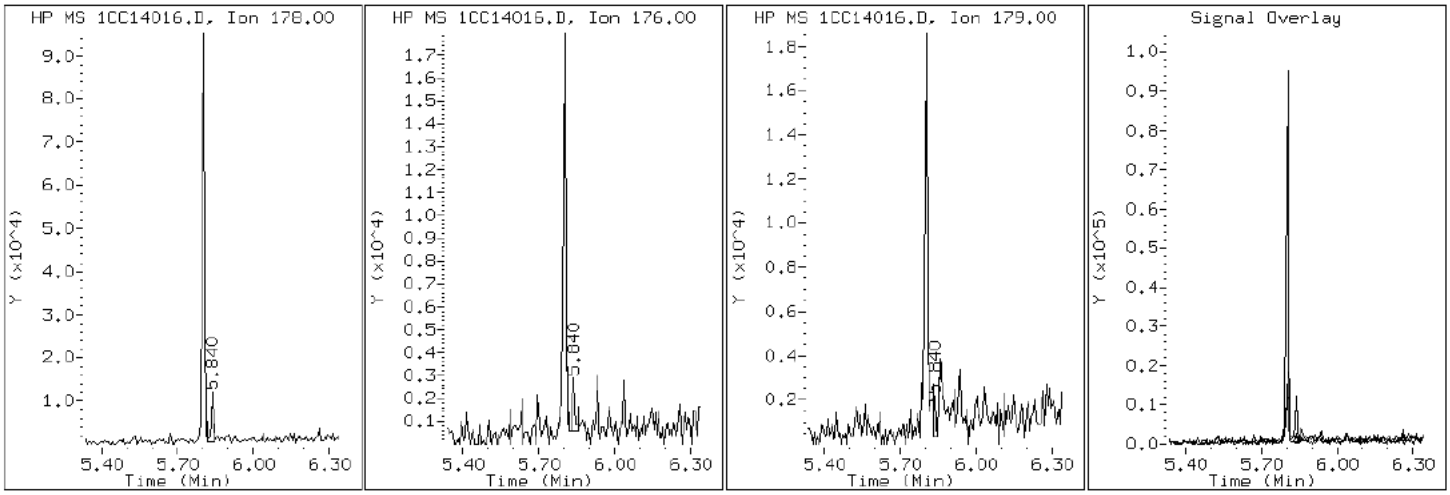
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

12 Anthracene



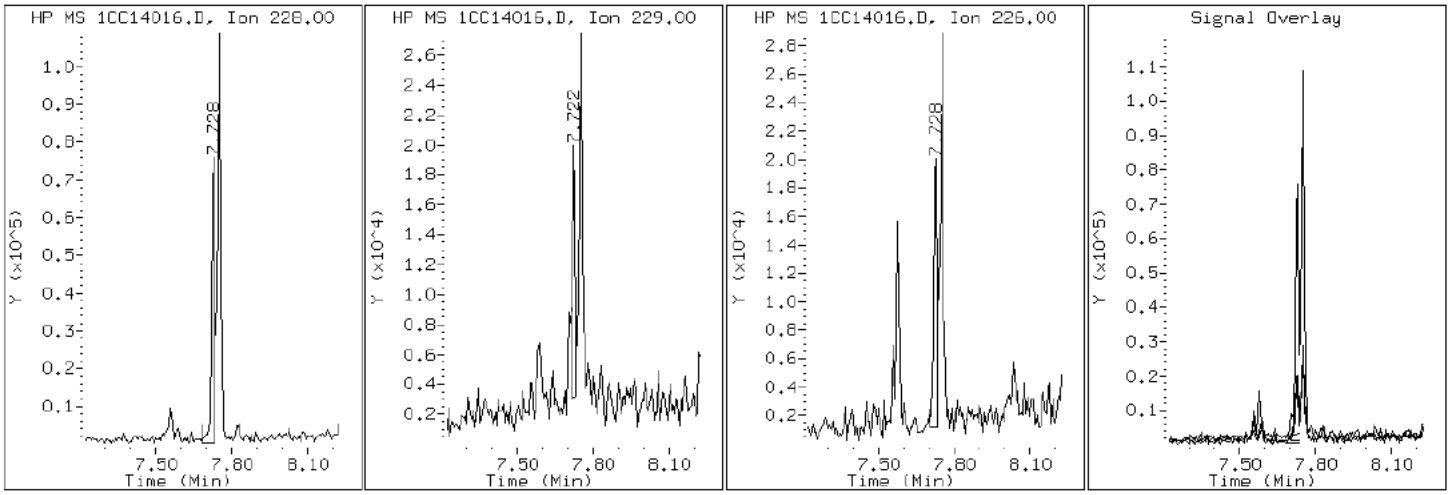
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

17 Benzo(a)anthracene



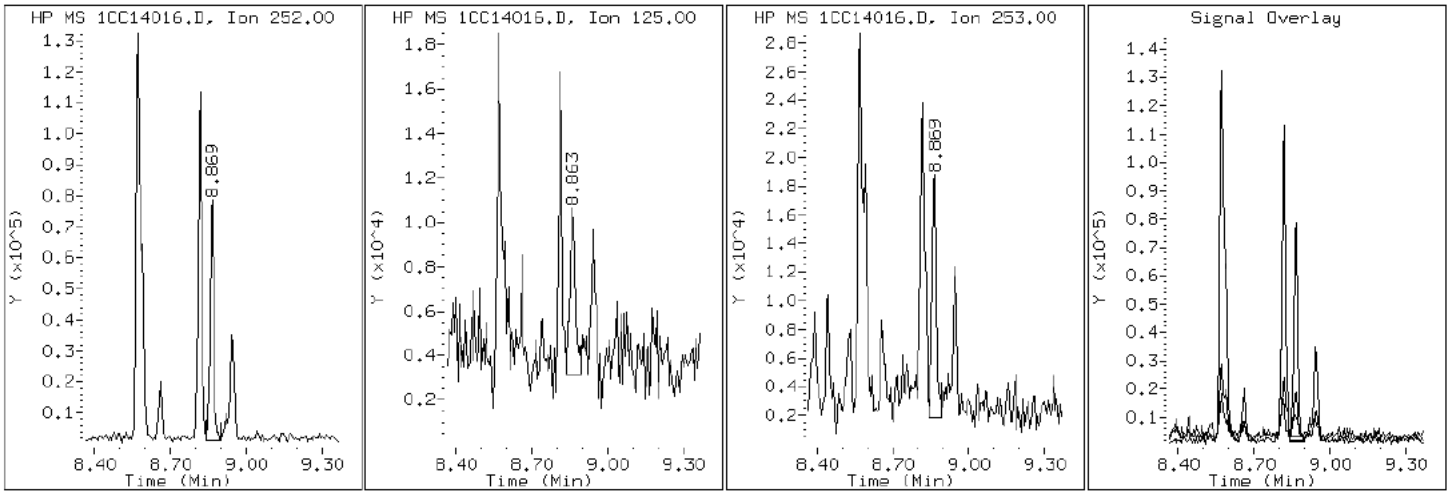
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

22 Benzo(a)pyrene



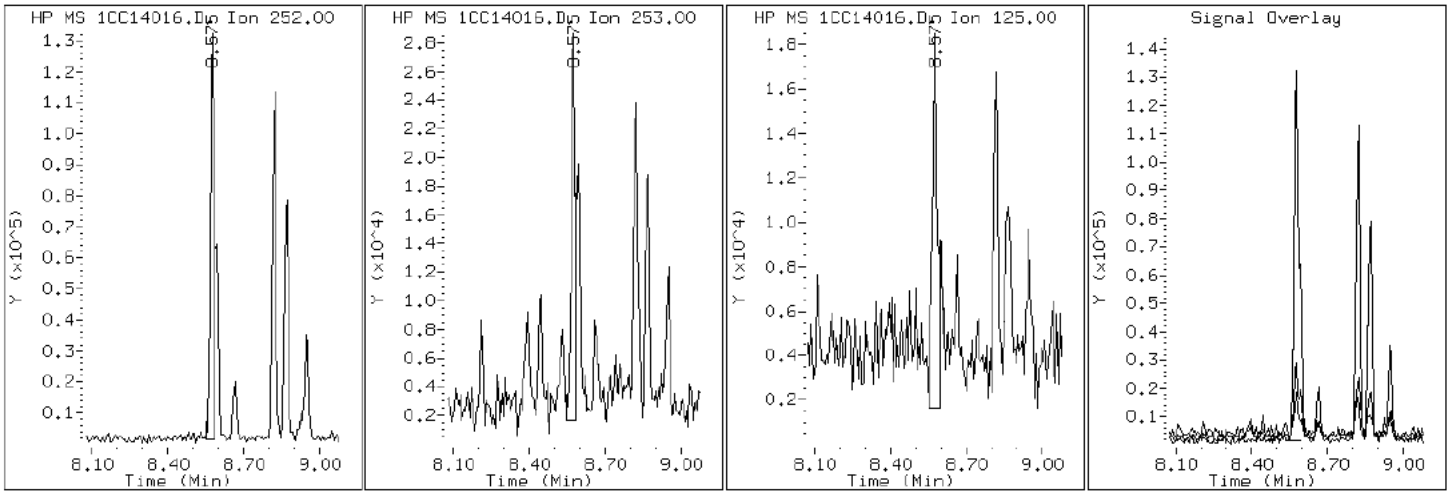
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



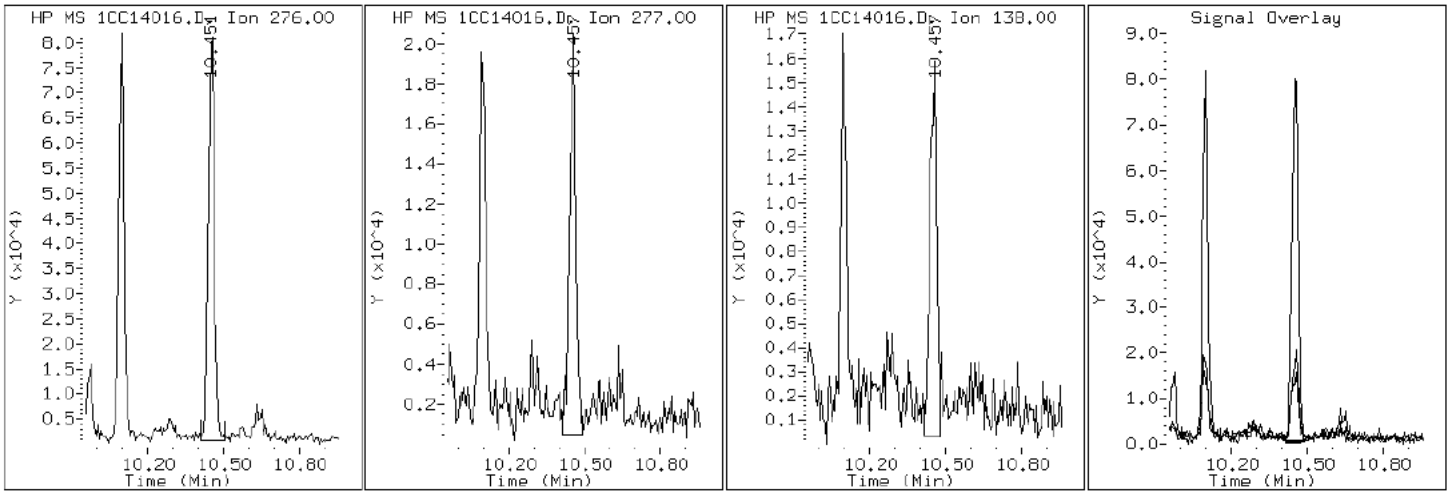
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



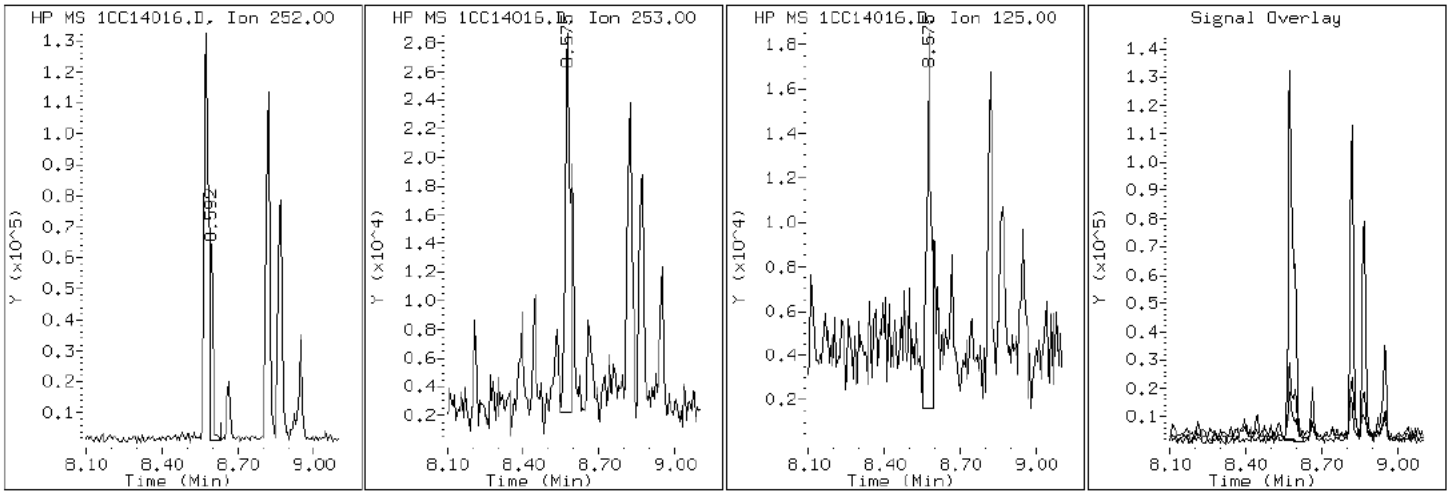
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



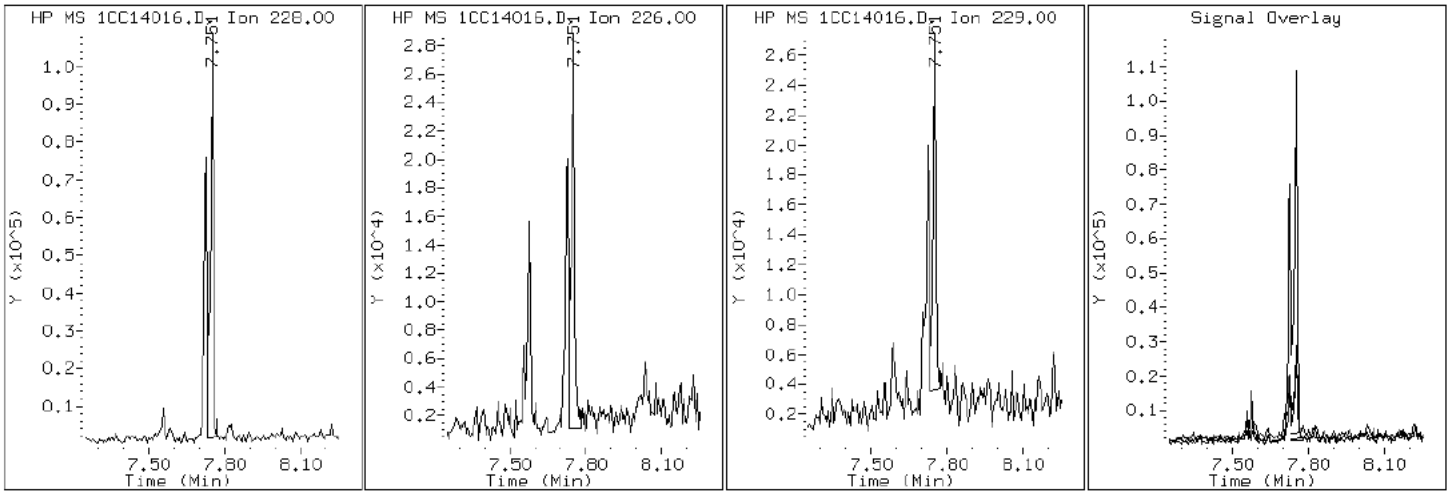
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

19 Chrysene



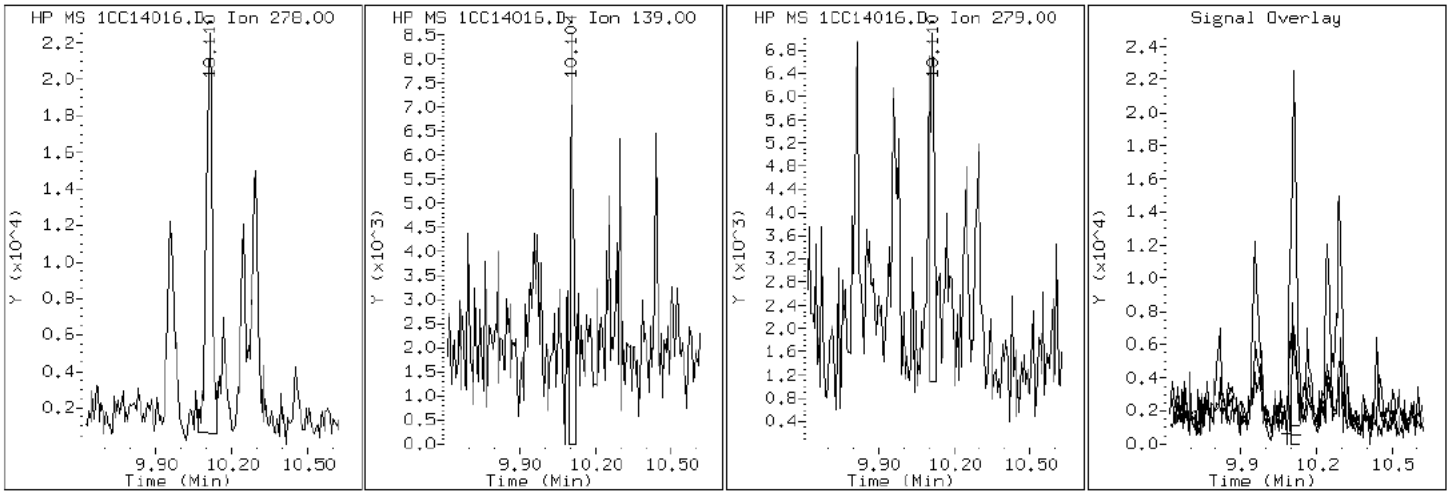
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



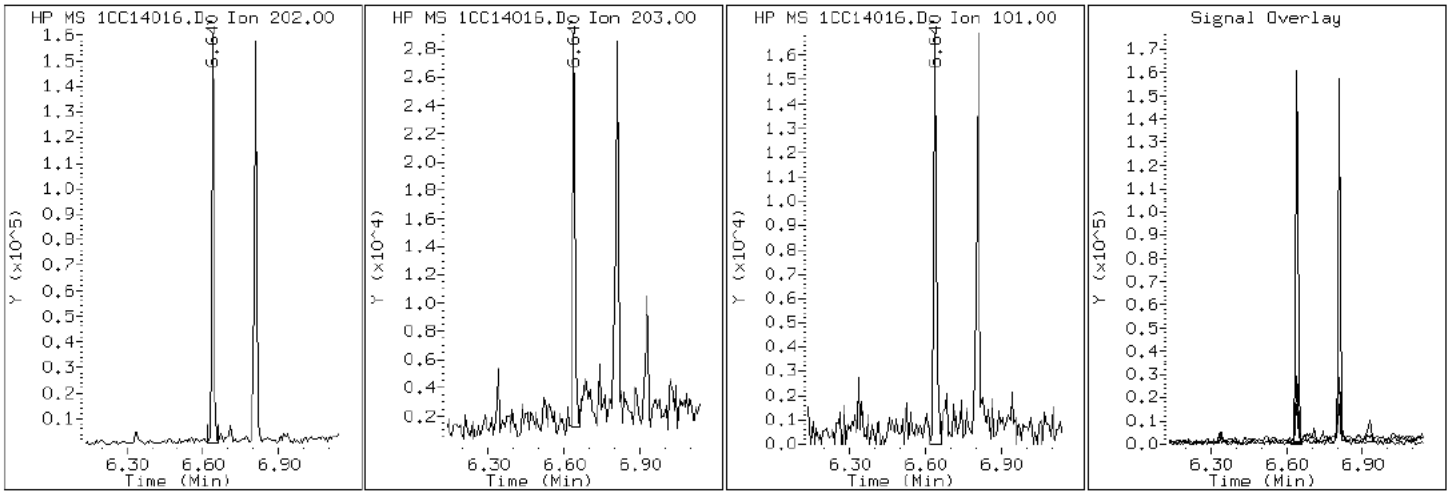
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

15 Fluoranthene



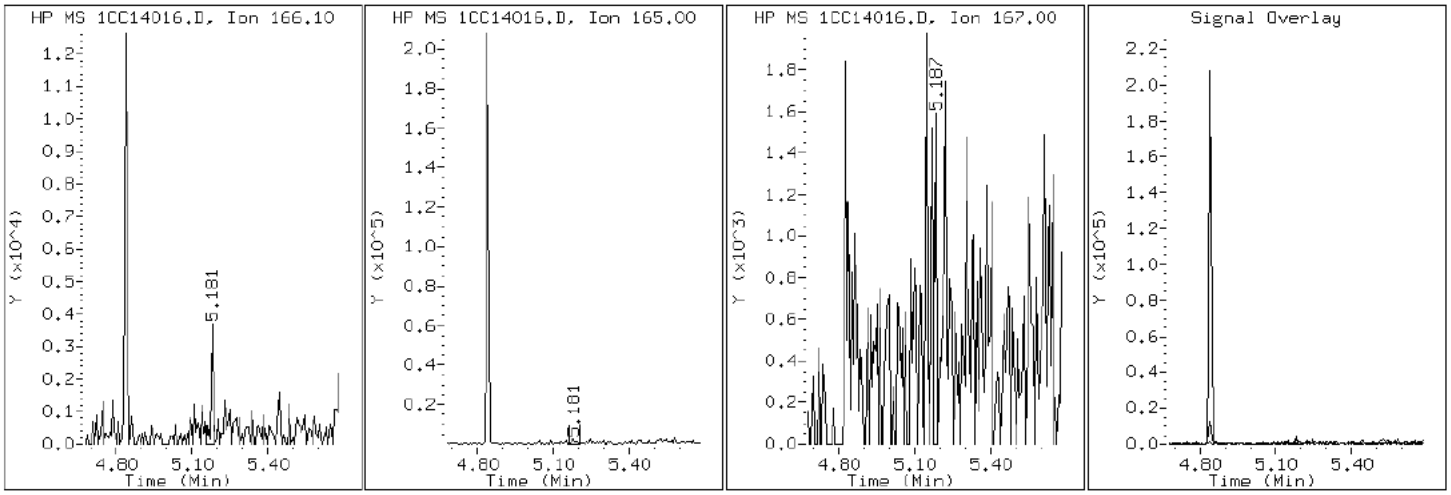
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

9 Fluorene



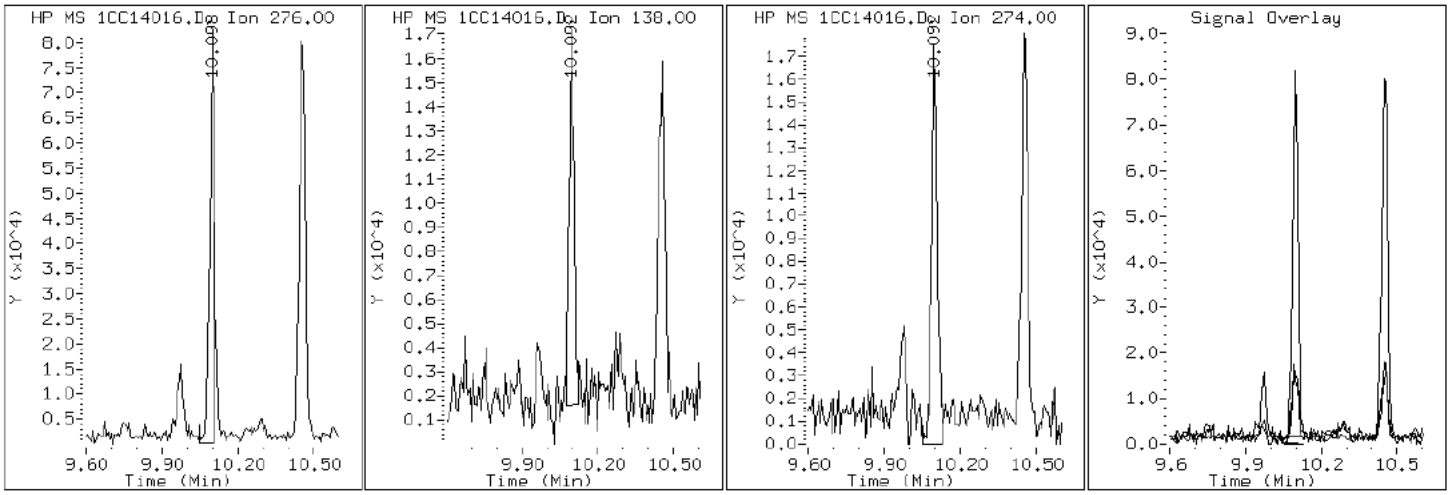
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

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



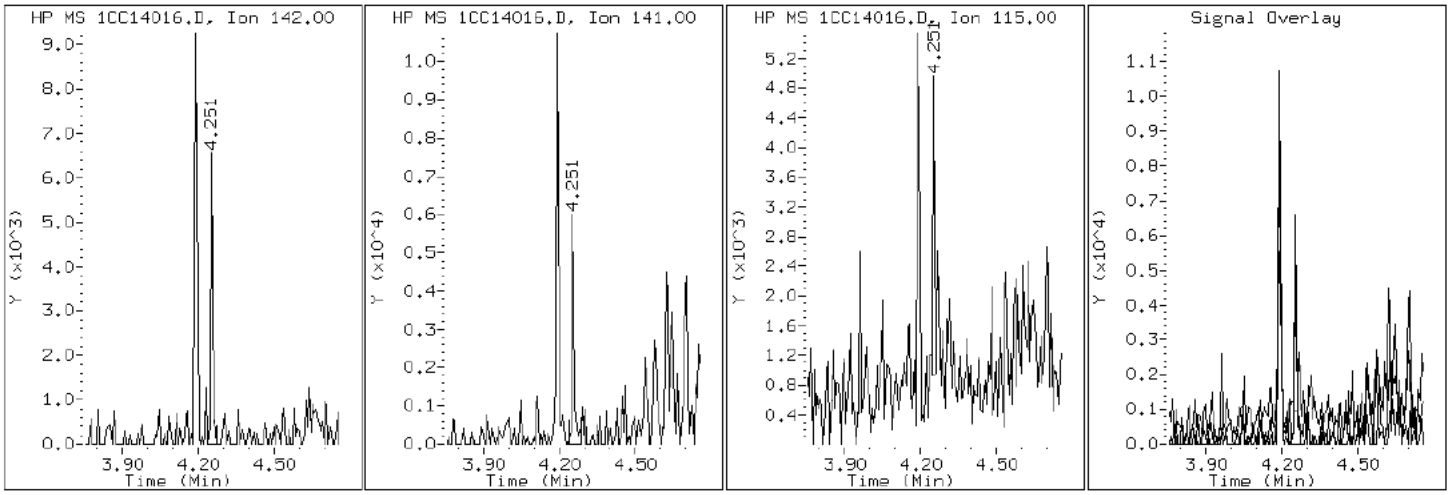
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

4 1-Methylnaphthalene



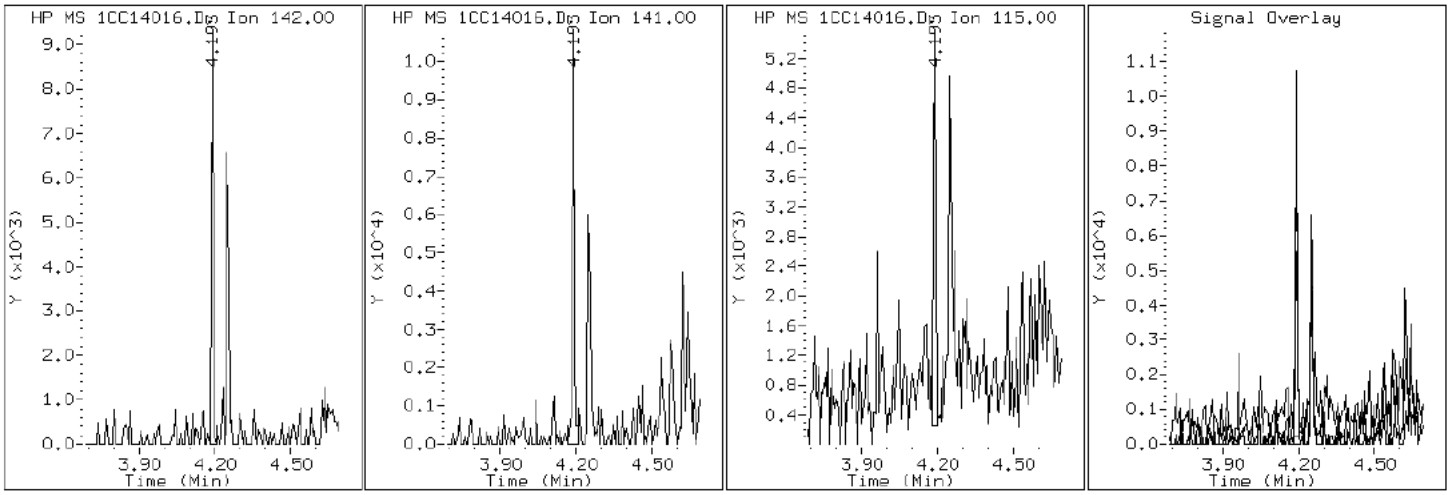
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

3 2-Methylnaphthalene



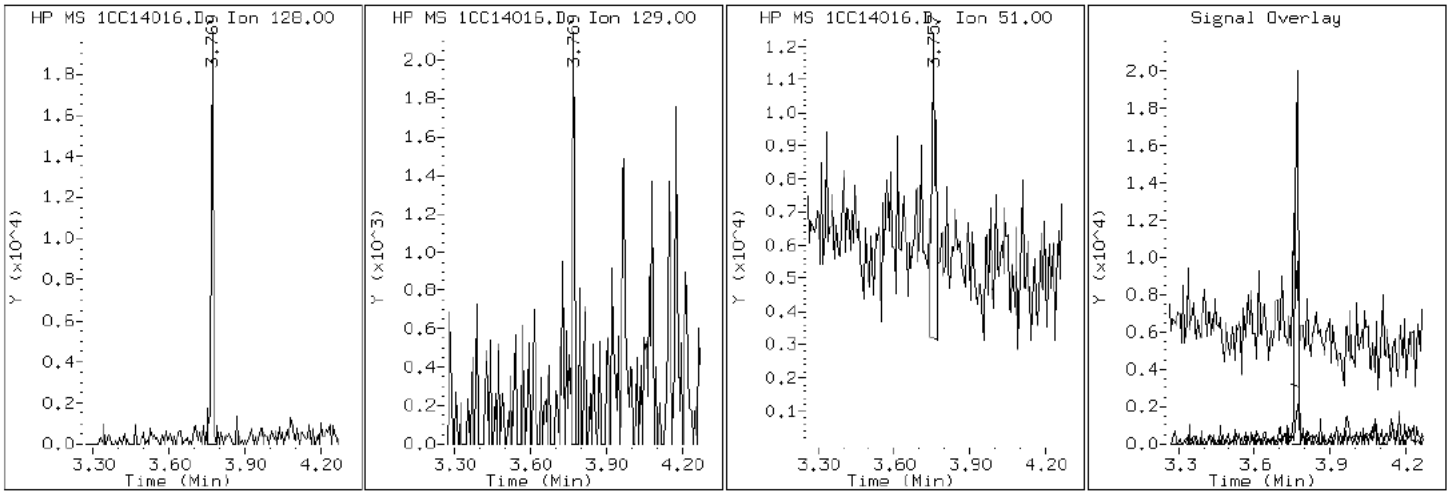
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

2 Naphthalene



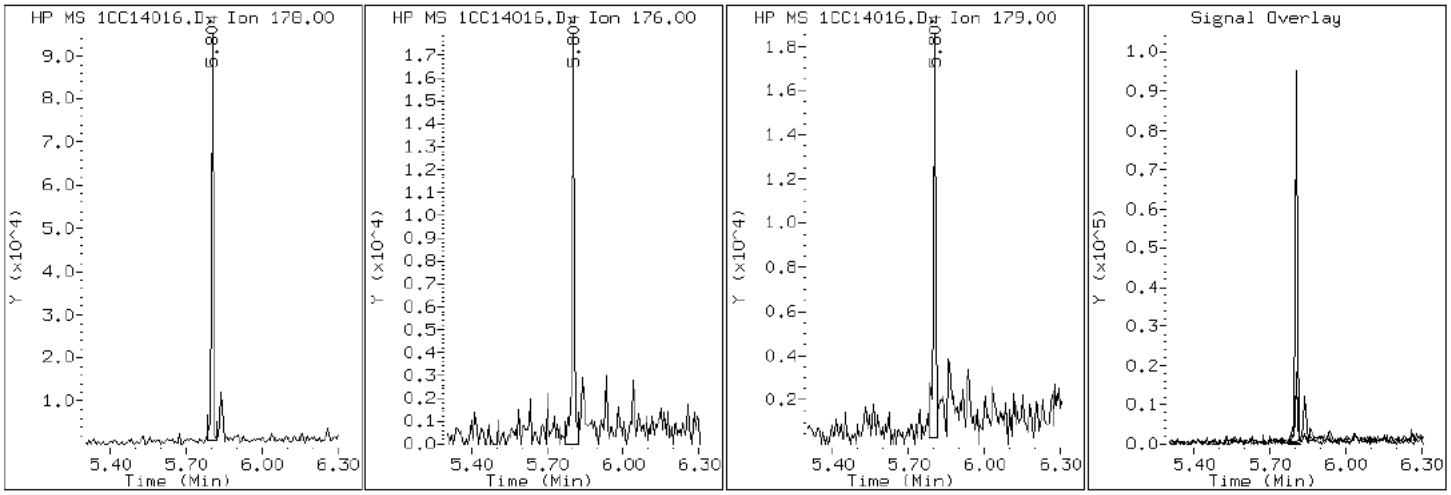
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

11 Phenanthrene



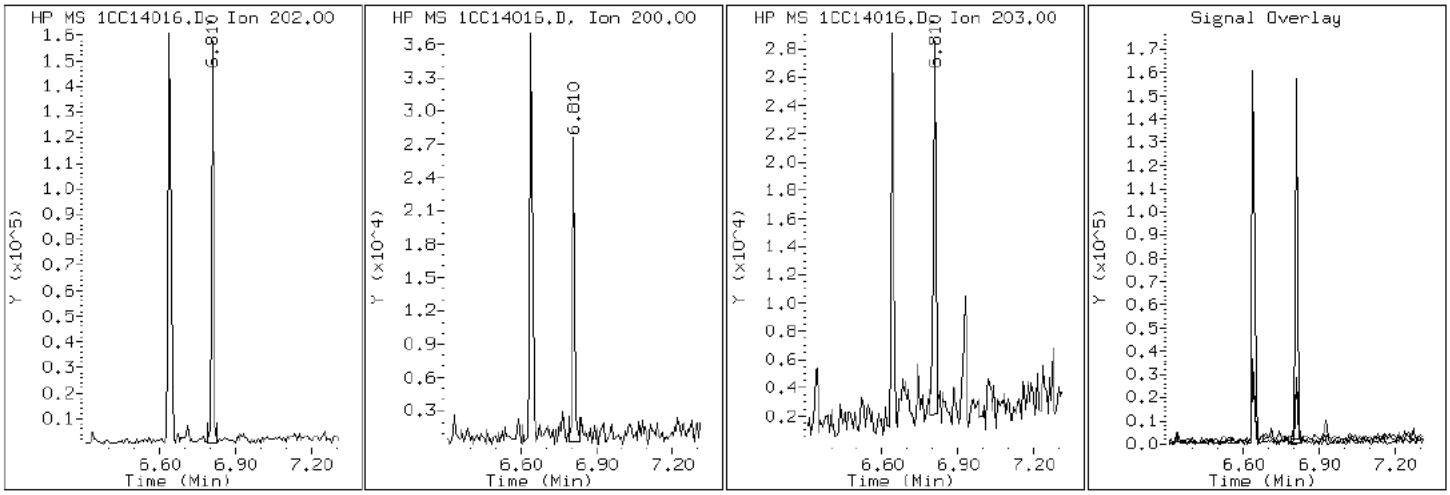
Data File: 1CC14016.D

Date: 14-MAR-2013 15:33

Client ID: CV0341B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88067-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC14016.D
Inj. Date and Time: 14-MAR-2013 15:33
Instrument ID: BSMC5973.i
Client ID: CV0341B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/18/2013

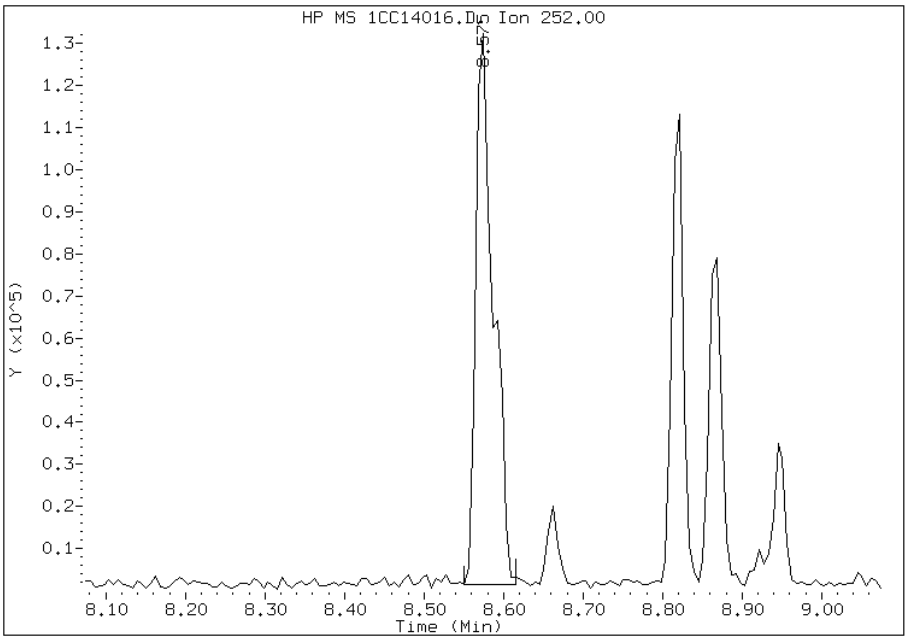
Processing Integration Results

RT: 8.57

Response: 201116

Amount: 5

Conc: 1862



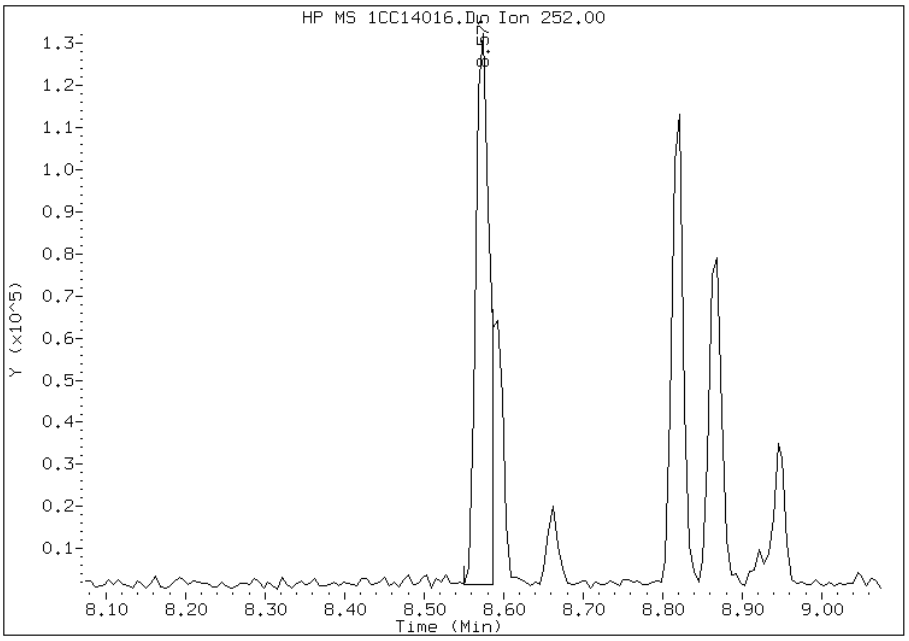
Manual Integration Results

RT: 8.57

Response: 156880

Amount: 4

Conc: 1453



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC14016.D
Inj. Date and Time: 14-MAR-2013 15:33
Instrument ID: BSMC5973.i
Client ID: CV0341B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/18/2013

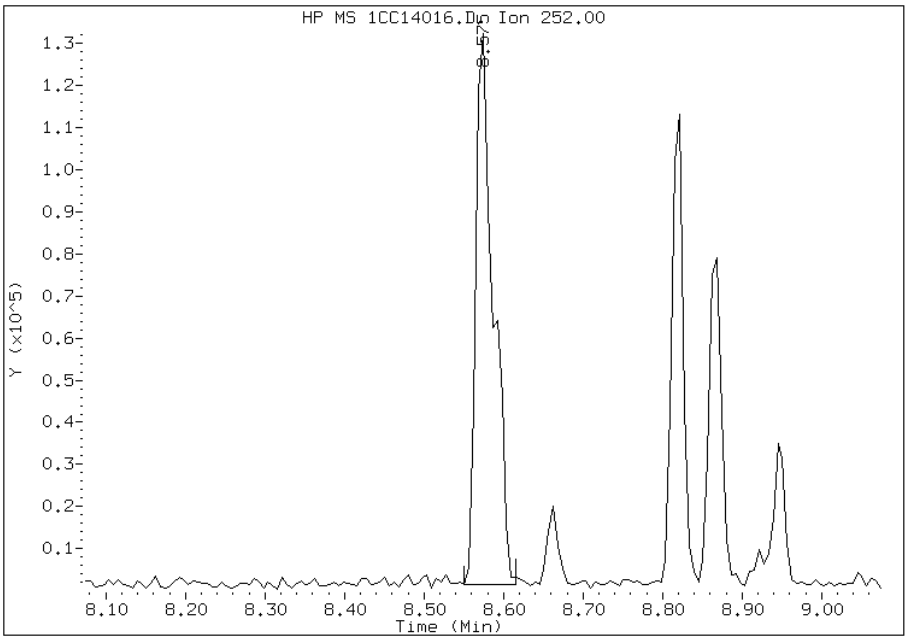
Processing Integration Results

RT: 8.57

Response: 201116

Amount: 5

Conc: 1815



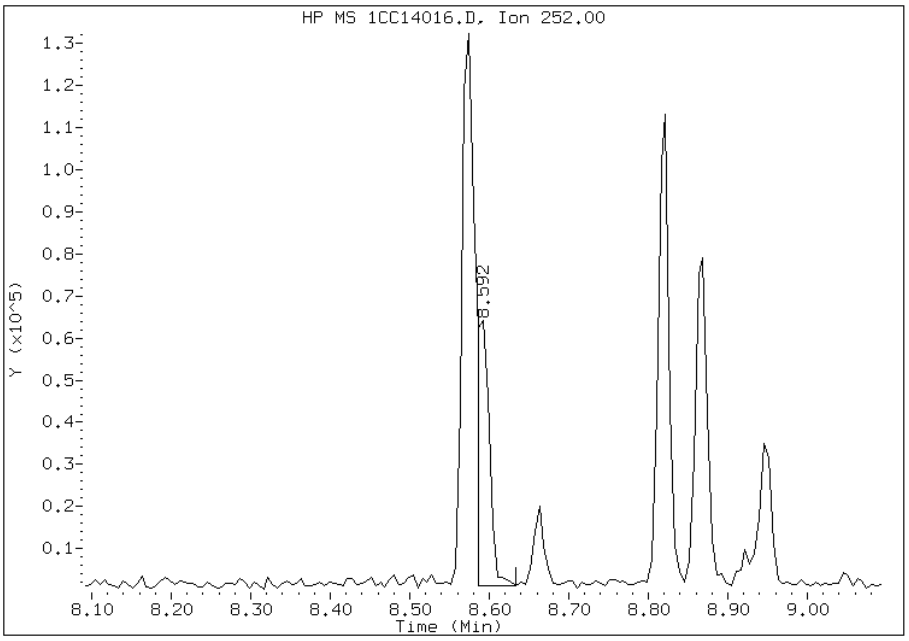
Manual Integration Results

RT: 8.59

Response: 67400

Amount: 2

Conc: 608



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC14016.D
Inj. Date and Time: 14-MAR-2013 15:33
Instrument ID: BSMC5973.i
Client ID: CV0341B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

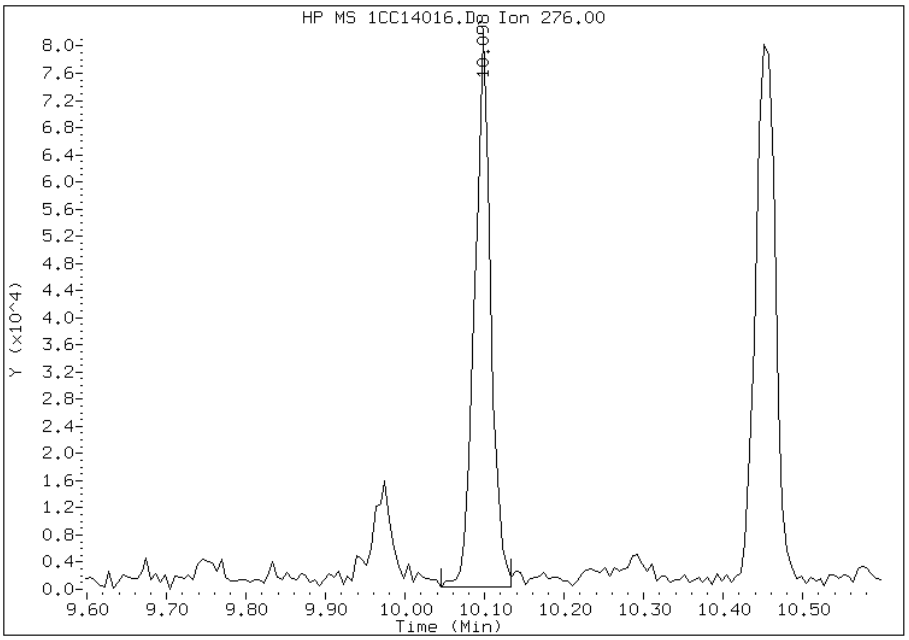
Processing Integration Results

RT: 10.10

Response: 114852

Amount: 3

Conc: 1164



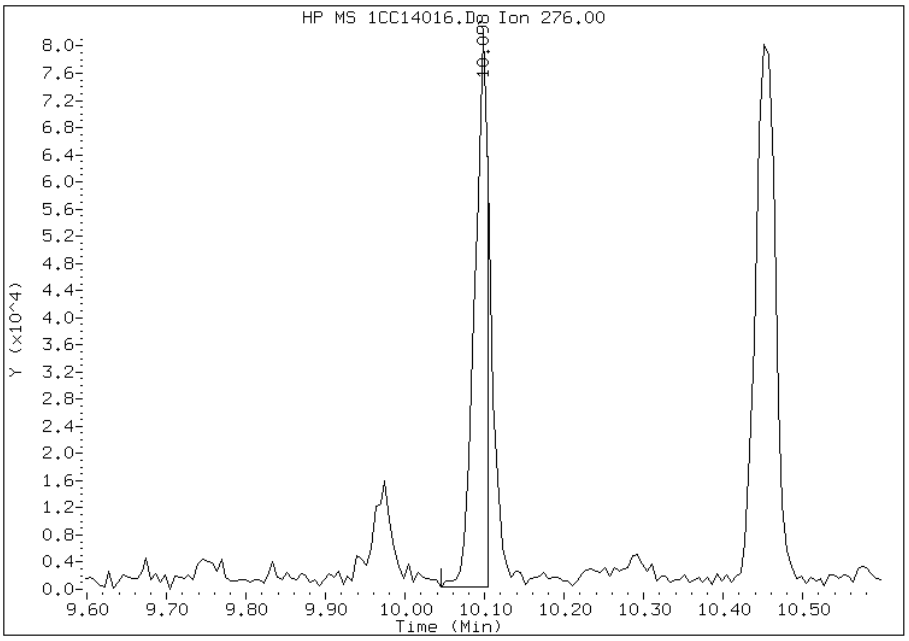
Manual Integration Results

RT: 10.10

Response: 95623

Amount: 2

Conc: 969



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:55
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1 Analy Batch No.: 134771

SDG No.: 68088067-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.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	0.8964 1.0153	0.9159 1.0399	0.9668	0.9629	0.9496	Ave		0.9639			0.0000	5.3		15.0			
2-Methylnaphthalene	0.5063 0.5277	0.4390 0.5498	0.4723	0.4869	0.5011	Ave		0.4976			0.0000	7.3		15.0			
1-Methylnaphthalene	0.5486 0.5967	0.4750 0.6283	0.5452	0.5377	0.5470	Ave		0.5541			0.0000	8.7		15.0			
Acenaphthylene	1.1966 1.6216	1.3446 1.8173	1.4050	1.4842	1.5855	Ave		1.4935			0.0000	13.6		15.0			
Acenaphthene	0.8808 0.9421	0.7126 1.0791	0.7647	0.8116	0.8502	Ave		0.8630			0.0000	14.1		15.0			
Fluorene	1.1431 1.1704	0.9064 1.3325	0.9874	1.0111	1.0737	Ave		1.0892			0.0000	12.9		15.0			
Phenanthrene	0.9312 1.0691	0.9111 1.1691	0.9176	0.9689	0.9927	Ave		0.9943			0.0000	9.5		15.0			
Anthracene	0.7803 1.0576	0.9213 1.1455	0.8949	0.9850	0.9759	Ave		0.9658			0.0000	12.1		15.0			
Carbazole	0.8186 0.9329	0.8109 0.9551	0.7765	0.8355	0.8385	Ave		0.8526			0.0000	7.7		15.0			
Fluoranthene	0.8986 1.1004	0.8625 1.1530	0.9211	1.0002	1.0230	Ave		0.9941			0.0000	10.8		15.0			
Pyrene	1.0843 1.2795	0.9905 1.3394	1.0929	1.1780	1.2482	Ave		1.1733			0.0000	10.6		15.0			
Benzo[a]anthracene	1.7411 1.1723	1.2086 1.2117	1.1255	1.1892	1.1354	LinF		1.1944			0.0000				0.9990		0.9900
Chrysene	1.1973 1.0763	0.9703 1.0809	1.0168	1.0640	1.0717	Ave		1.0682			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9061 1.0772	0.9726 1.1120	0.9385	1.0042	1.0873	Ave		1.0140			0.0000	7.9		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 CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88067-1 Analy Batch No.: 134771

SDG No.: 68088067-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9231 1.0263	0.9685 1.1087	1.0370	1.0317	1.0456	Ave		1.0201			0.0000	5.8		15.0			
Benzo[a]pyrene	0.8117 0.9918	0.8272 1.0398	0.9008	0.9421	0.9868	Ave		0.9286			0.0000	9.3		15.0			
Indeno[1,2,3-cd]pyrene	0.7333 0.8566	0.6724 0.8736	0.7089	0.8640	0.8679	Ave		0.7967			0.0000	11.0		15.0			
Dibenz(a,h)anthracene	0.7469 0.8730	0.7508 0.9377	0.7976	0.8318	0.8737	Ave		0.8302			0.0000	8.5		15.0			
Benzo[g,h,i]perylene	0.7605 0.8858	0.7997 0.9208	0.8165	0.8606	0.8875	Ave		0.8473			0.0000	6.7		15.0			
o-Terphenyl	0.6186 0.6322	0.5097 0.6801	0.5130	0.5639	0.5567	Ave		0.5820			0.0000	11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88067-1 Analy Batch No.: 134771

SDG No.: 68088067-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.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	4492 755068	23071 1297783	116527	240277	470879	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	2537 392415	11057 686127	56925	121491	248487	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	2749 443774	11965 784083	65710	134180	271250	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	4028 777111	22465 1395142	113930	243677	493767	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	2965 451477	11906 828395	62010	133244	264764	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	3848 560865	15143 1022945	80068	165999	334396	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	4653 768793	22599 1384065	115139	234292	480919	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3899 760474	22852 1356027	112287	238178	472782	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	4090 670812	20113 1130623	97425	202035	406225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	4490 791244	21394 1364989	115579	241853	495614	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4786 842188	22037 1493658	120317	254540	525727	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	7685 771629	26890 1351230	123907	256962	478213	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	5285 708418	21588 1205320	111943	229916	451380	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4262 734907	23073 1222288	108525	230016	467596	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4342 700196	22977 1218648	119915	236303	449664	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.: 680-88067-1 Analy Batch No.: 134771

SDG No.: 68088067-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

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	3818 676641	19624 1142888	104167	215789	424369	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3449 584416	15951 960232	81971	197900	373229	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3513 595548	17811 1030642	92232	190519	375714	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	3577 604332	18973 1012084	94413	197121	381649	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	3091 454607	12643 805122	64371	136353	269717	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 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.389	2.396	(1.000)	1002176	40.0000	
*	6 Acenaphthene-d10	164	3.415	3.416	(1.000)	673260	40.0000	
*	10 Phenanthrene-d10	188	4.355	4.351	(1.000)	999327	40.0000	
$	14 o-Terphenyl	230	4.628	4.634	(1.063)	3091	0.20000	0.2125
*	18 Chrysene-d12	240	6.364	6.365	(1.000)	882800	40.0000	
*	23 Perylene-d12	264	7.459	7.455	(1.000)	940724	40.0000	
	2 Naphthalene	128	2.405	2.401	(1.007)	4492	0.20000	0.1860(Q)
	3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	2537	0.20000	0.2035
	4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	2749	0.20000	0.1980
	5 Acenaphthylene	152	3.330	3.331	(0.975)	4028	0.20000	0.1602
	7 Acenaphthene	154	3.431	3.433	(1.005)	2965	0.20000	0.2041
	9 Fluorene	166	3.741	3.742	(1.095)	3848	0.20000	0.2098
	11 Phenanthrene	178	4.366	4.367	(1.002)	4653	0.20000	0.1873
	12 Anthracene	178	4.398	4.399	(1.010)	3899	0.20000	0.1615
	13 Carbazole	167	4.553	4.554	(1.045)	4090	0.20000	0.1920
	15 Fluoranthene	202	5.226	5.227	(1.200)	4490	0.20000	0.1807
	16 Pyrene	202	5.392	5.393	(0.847)	4786	0.20000	0.1848
	17 Benzo(a)anthracene	228	6.359	6.355	(0.999)	7685	0.20000	0.2915
	19 Chrysene	228	6.375	6.387	(1.002)	5285	0.20000	0.2241
	20 Benzo(b)fluoranthene	252	7.171	7.177	(0.961)	4262	0.20000	0.1787
	21 Benzo(k)fluoranthene	252	7.192	7.199	(0.964)	4342	0.20000	0.1809
	22 Benzo(a)pyrene	252	7.400	7.407	(0.992)	3818	0.20000	0.1748
	24 Indeno(1,2,3-cd)pyrene	276	8.175	8.176	(1.096)	3449	0.20000	0.1840(M)
	25 Dibenzo(a,h)anthracene	278	8.191	8.192	(1.098)	3513	0.20000	0.1799
	26 Benzo(g,h,i)perylene	276	8.378	8.385	(1.123)	3577	0.20000	0.1794

QC Flag Legend

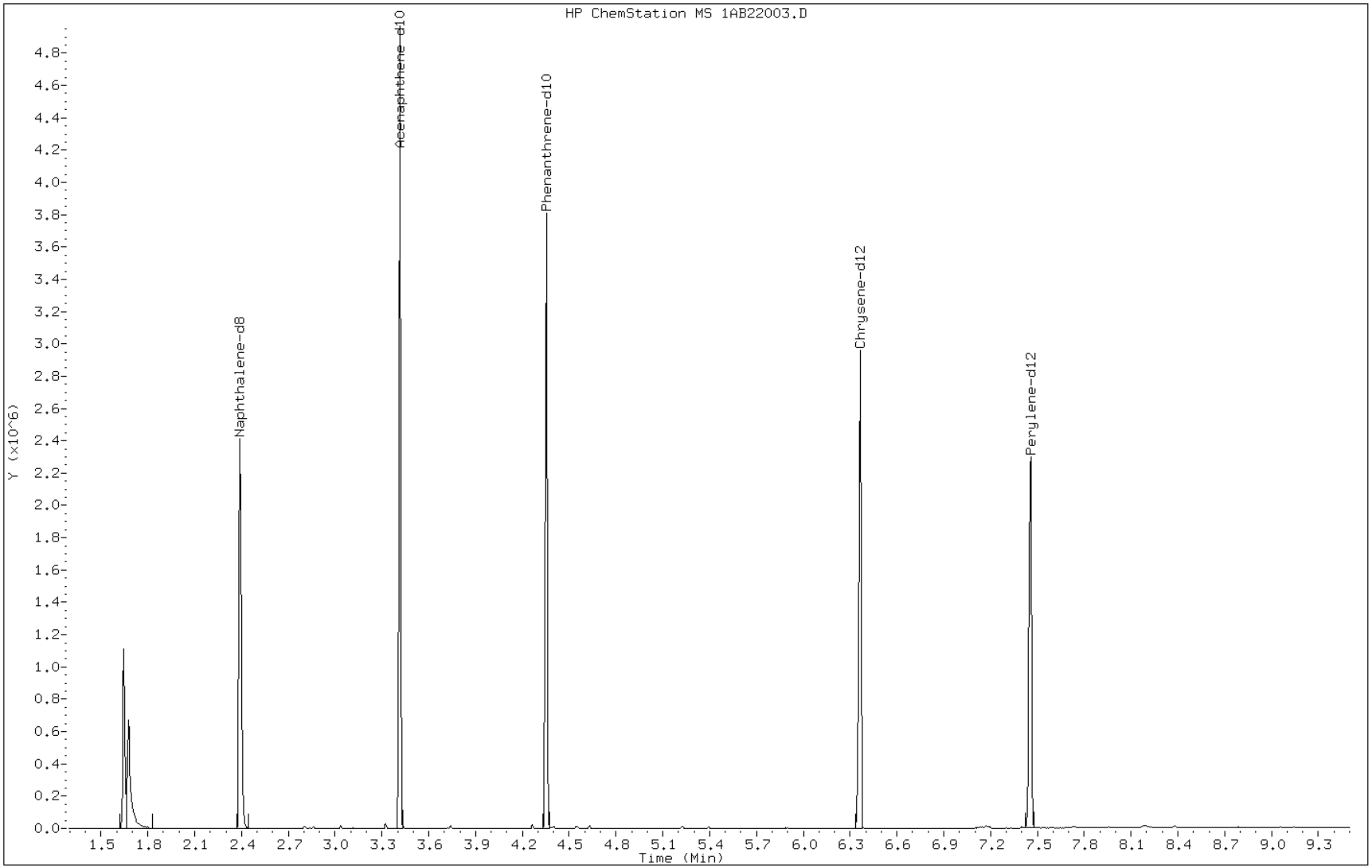
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22003.D

Date: 22-FEB-2013 11:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1AB22003.D
Inj. Date and Time: 22-FEB-2013 11:01
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

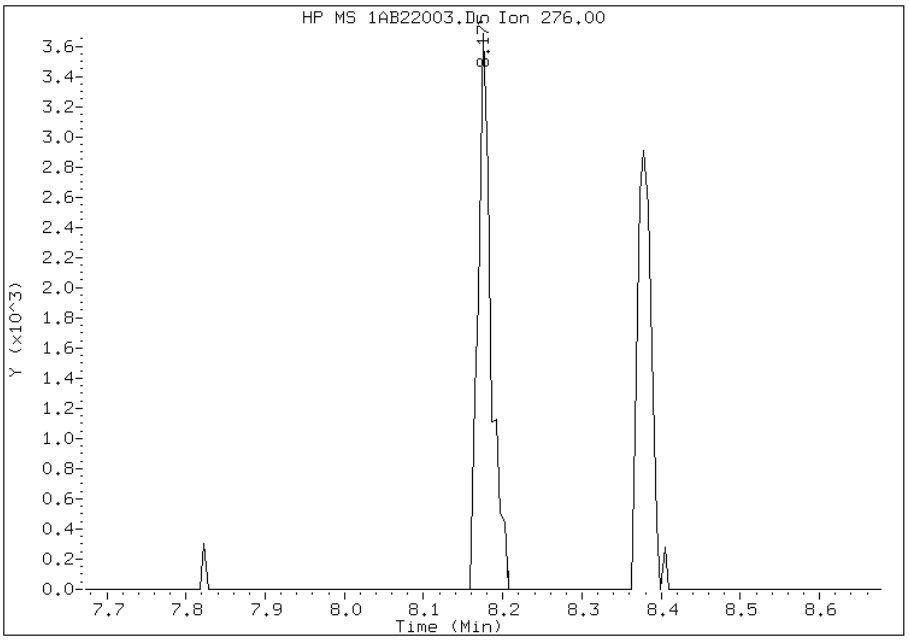
Processing Integration Results

RT: 8.18

Response: 4114

Amount: 0

Conc: 0



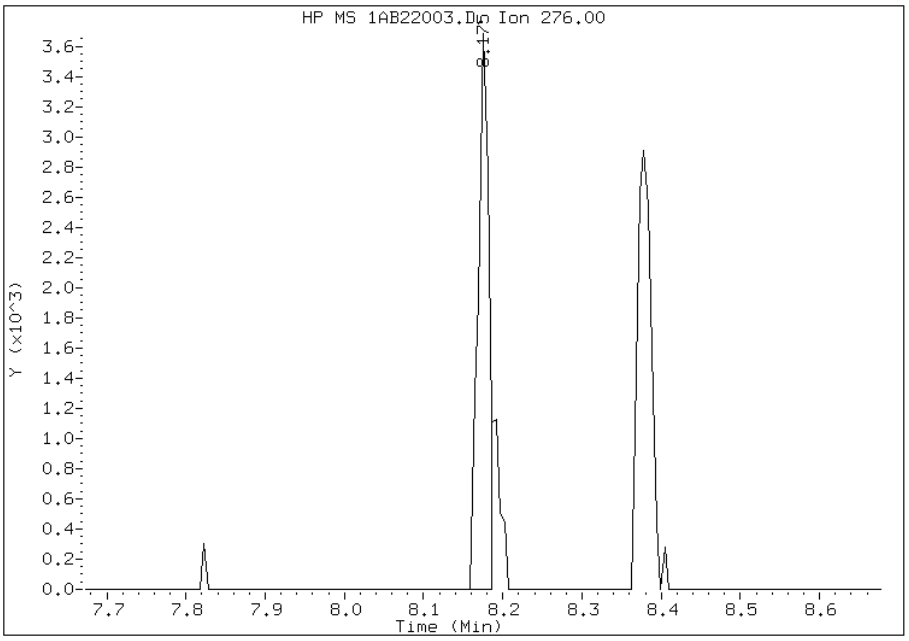
Manual Integration Results

RT: 8.18

Response: 3449

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:53
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 11:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:01 Cal File: 1AB22003.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	1007546	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	668302	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	992180	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.063)	12643	1.00000	0.8757
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	889971	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	948962	40.0000	
2 Naphthalene	128	2.399	2.401	(1.004)	23071	1.00000	0.9502(Q)
3 2-Methylnaphthalene	141	2.805	2.807	(1.174)	11057	1.00000	0.8822
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	11965	1.00000	0.8573
5 Acenaphthylene	152	3.329	3.331	(0.975)	22465	1.00000	0.9002
7 Acenaphthene	154	3.430	3.433	(1.005)	11906	1.00000	0.8257
9 Fluorene	166	3.740	3.742	(1.095)	15143	1.00000	0.8321
11 Phenanthrene	178	4.365	4.367	(1.002)	22599	1.00000	0.9163
12 Anthracene	178	4.397	4.399	(1.010)	22852	1.00000	0.9539
13 Carbazole	167	4.552	4.554	(1.045)	20113	1.00000	0.9511
15 Fluoranthene	202	5.225	5.227	(1.200)	21394	1.00000	0.8676
16 Pyrene	202	5.386	5.393	(0.846)	22037	1.00000	0.8441
17 Benzo(a)anthracene	228	6.347	6.355	(0.997)	26890	1.00000	1.0118
19 Chrysene	228	6.379	6.387	(1.003)	21588	1.00000	0.9083
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	23073	1.00000	0.9591
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	22977	1.00000	0.9493
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	19624	1.00000	0.8907
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	15951	1.00000	0.8439(M)
25 Dibenzo(a,h)anthracene	278	8.179	8.192	(1.097)	17811	1.00000	0.9043
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	18973	1.00000	0.9438

QC Flag Legend

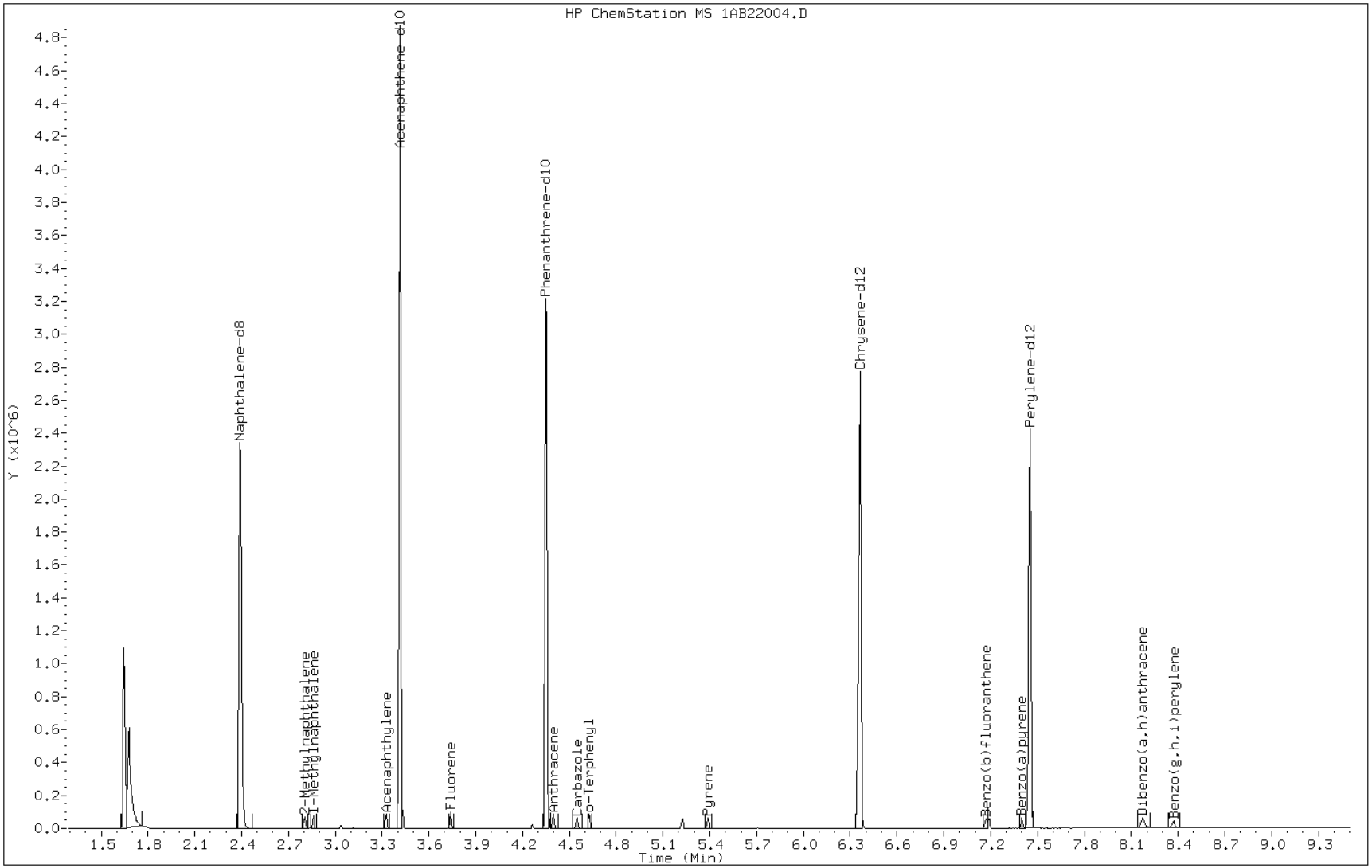
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22004.D

Date: 22-FEB-2013 11:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1AB22004.D
Inj. Date and Time: 22-FEB-2013 11:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

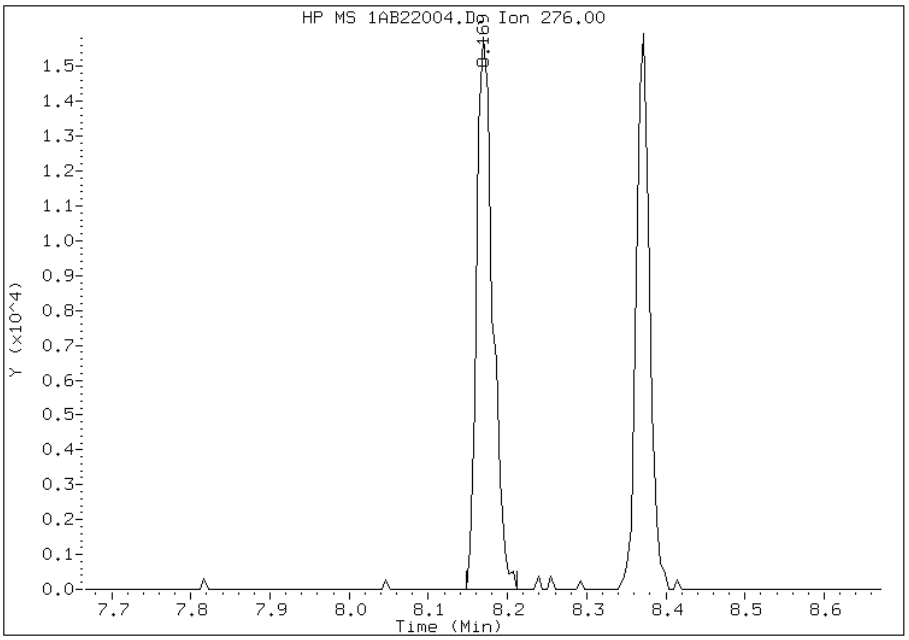
Processing Integration Results

RT: 8.17

Response: 22224

Amount: 1

Conc: 1



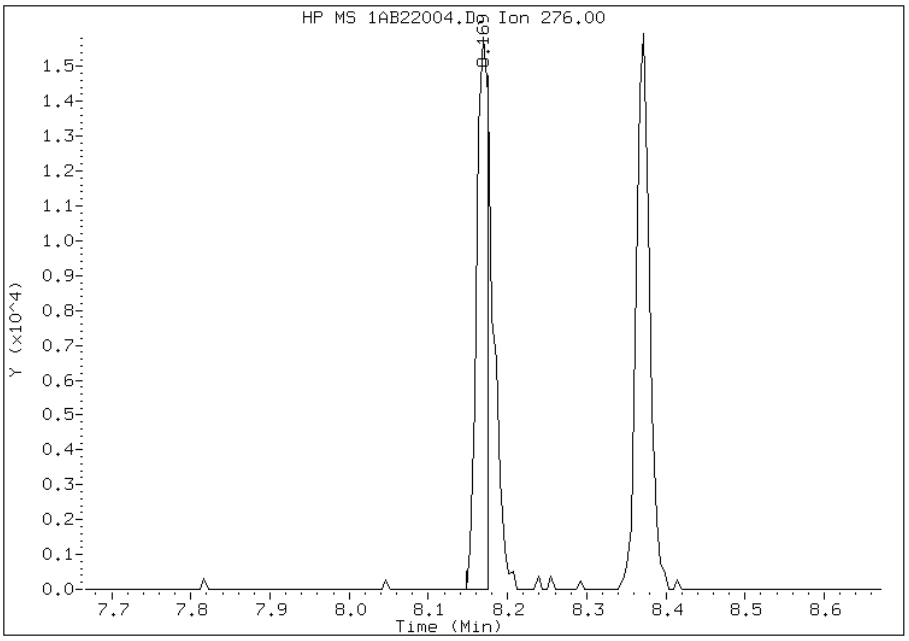
Manual Integration Results

RT: 8.17

Response: 15951

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 11:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:16 Cal File: 1AB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.394	2.396	(1.000)	964215	40.0000	
*	6 Acenaphthene-d10	164	3.414	3.416	(1.000)	648695	40.0000	
*	10 Phenanthrene-d10	188	4.349	4.351	(1.000)	1003789	40.0000	
$	14 o-Terphenyl	230	4.627	4.634	(1.064)	64371	5.00000	4.4071
*	18 Chrysene-d12	240	6.363	6.365	(1.000)	880707	40.0000	
*	23 Perylene-d12	264	7.453	7.455	(1.000)	925085	40.0000	
	2 Naphthalene	128	2.404	2.401	(1.004)	116527	5.00000	5.0153
	3 2-Methylnaphthalene	141	2.805	2.807	(1.172)	56925	5.00000	4.7460
	4 1-Methylnaphthalene	142	2.858	2.861	(1.194)	65710	5.00000	4.9197
	5 Acenaphthylene	152	3.329	3.331	(0.975)	113930	5.00000	4.7037
	7 Acenaphthene	154	3.430	3.433	(1.005)	62010	5.00000	4.4306
	9 Fluorene	166	3.740	3.742	(1.095)	80068	5.00000	4.5327
	11 Phenanthrene	178	4.365	4.367	(1.004)	115139	5.00000	4.6146
	12 Anthracene	178	4.397	4.399	(1.011)	112287	5.00000	4.6330
	13 Carbazole	167	4.547	4.554	(1.045)	97425	5.00000	4.5537
	15 Fluoranthene	202	5.220	5.227	(1.200)	115579	5.00000	4.6329
	16 Pyrene	202	5.391	5.393	(0.847)	120317	5.00000	4.6576
	17 Benzo(a)anthracene	228	6.352	6.355	(0.998)	123907	5.00000	4.7117
	19 Chrysene	228	6.379	6.387	(1.003)	111943	5.00000	4.7596
	20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	108525	5.00000	4.6277
	21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	119915	5.00000	5.0826
	22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	104167	5.00000	4.8503
	24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	81971	5.00000	4.4490(M)
	25 Dibenzo(a,h)anthracene	278	8.185	8.192	(1.098)	92232	5.00000	4.8037
	26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	94413	5.00000	4.8178

QC Flag Legend

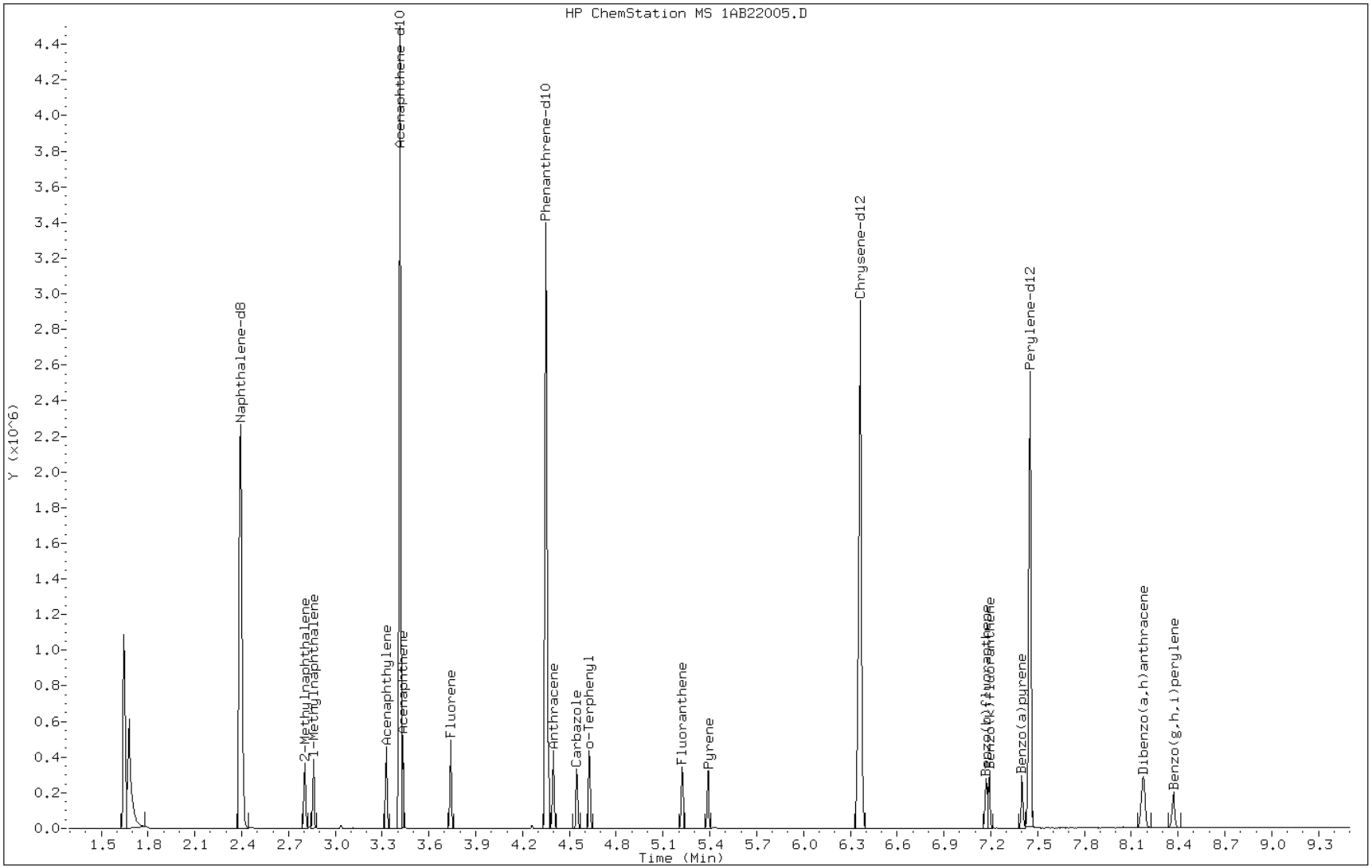
M - Compound response manually integrated.

Data File: 1AB22005.D

Date: 22-FEB-2013 11:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1AB22005.D
Inj. Date and Time: 22-FEB-2013 11:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

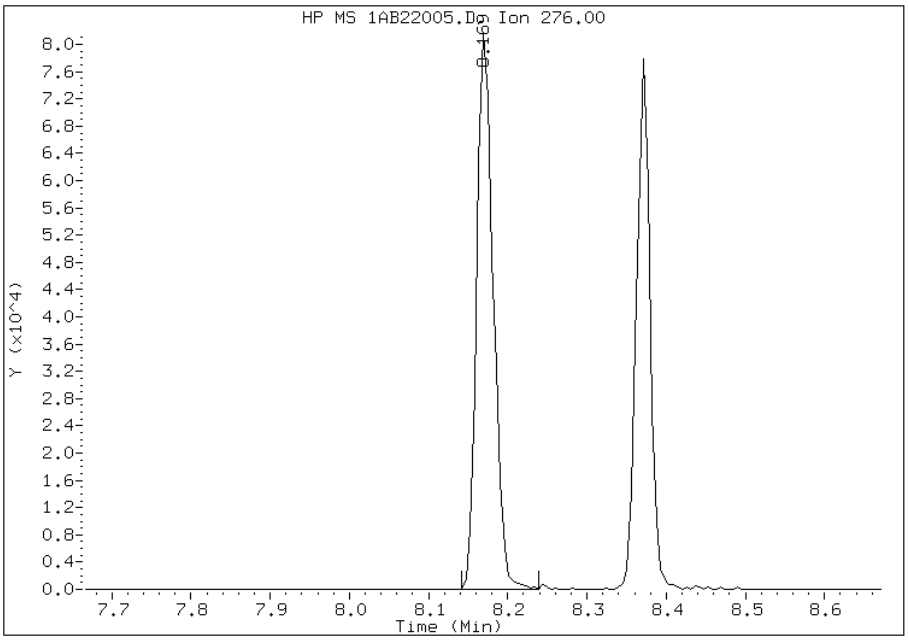
Processing Integration Results

RT: 8.17

Response: 116998

Amount: 6

Conc: 6



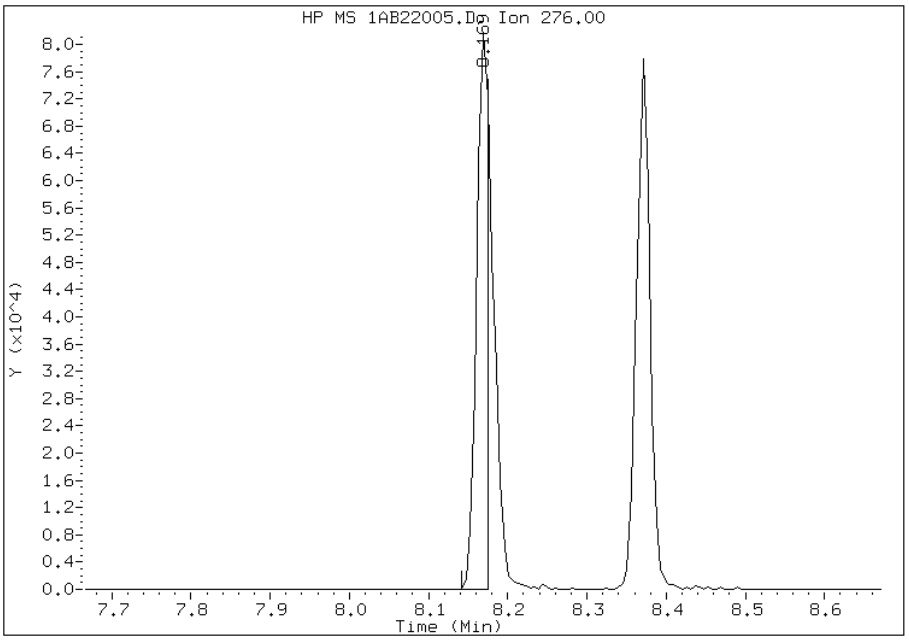
Manual Integration Results

RT: 8.17

Response: 81971

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 11:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:31 Cal File: 1AB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.391	2.396	(1.000)	998088	40.0000	
*	6 Acenaphthene-d10	164	3.417	3.416	(1.000)	656726	40.0000	
*	10 Phenanthrene-d10	188	4.352	4.351	(1.000)	967220	40.0000	
$	14 o-Terphenyl	230	4.630	4.634	(1.064)	136353	10.0000	9.6882
*	18 Chrysene-d12	240	6.366	6.365	(1.000)	864311	40.0000	
*	23 Perylene-d12	264	7.456	7.455	(1.000)	916189	40.0000	
	2 Naphthalene	128	2.402	2.401	(1.004)	240277	10.0000	9.9906
	3 2-Methylnaphthalene	141	2.803	2.807	(1.172)	121491	10.0000	9.7853
	4 1-Methylnaphthalene	142	2.861	2.861	(1.197)	134180	10.0000	9.7051
	5 Acenaphthylene	152	3.331	3.331	(0.975)	243677	10.0000	9.9374
	7 Acenaphthene	154	3.433	3.433	(1.005)	133244	10.0000	9.4039
	9 Fluorene	166	3.743	3.742	(1.095)	165999	10.0000	9.2825
	11 Phenanthrene	178	4.368	4.367	(1.004)	234292	10.0000	9.7451
	12 Anthracene	178	4.400	4.399	(1.011)	238178	10.0000	10.1990
	13 Carbazole	167	4.549	4.554	(1.045)	202035	10.0000	9.8003
	15 Fluoranthene	202	5.222	5.227	(1.200)	241853	10.0000	10.0611
	16 Pyrene	202	5.393	5.393	(0.847)	254540	10.0000	10.0404
	17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	256962	10.0000	9.9568
	19 Chrysene	228	6.382	6.387	(1.003)	229916	10.0000	9.9611
	20 Benzo(b)fluoranthene	252	7.172	7.177	(0.962)	230016	10.0000	9.9036
	21 Benzo(k)fluoranthene	252	7.194	7.199	(0.965)	236303	10.0000	10.1130
	22 Benzo(a)pyrene	252	7.402	7.407	(0.993)	215789	10.0000	10.1454
	24 Indeno(1,2,3-cd)pyrene	276	8.171	8.176	(1.096)	197900	10.0000	10.8454(M)
	25 Dibenzo(a,h)anthracene	278	8.187	8.192	(1.098)	190519	10.0000	10.0192
	26 Benzo(g,h,i)perylene	276	8.374	8.385	(1.123)	197121	10.0000	10.1566

QC Flag Legend

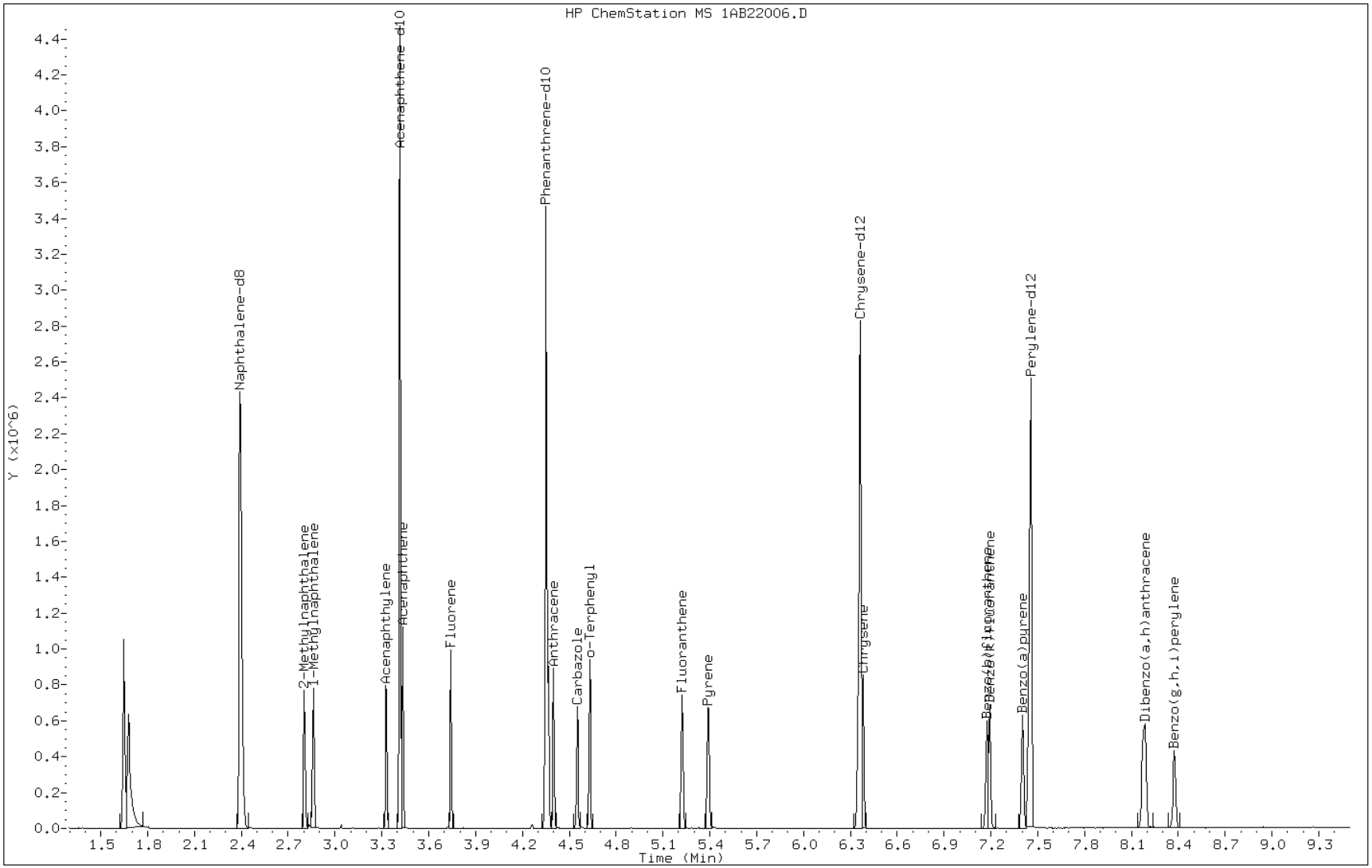
M - Compound response manually integrated.

Data File: 1AB22006.D

Date: 22-FEB-2013 11:47

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1AB22006.D
Inj. Date and Time: 22-FEB-2013 11:47
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

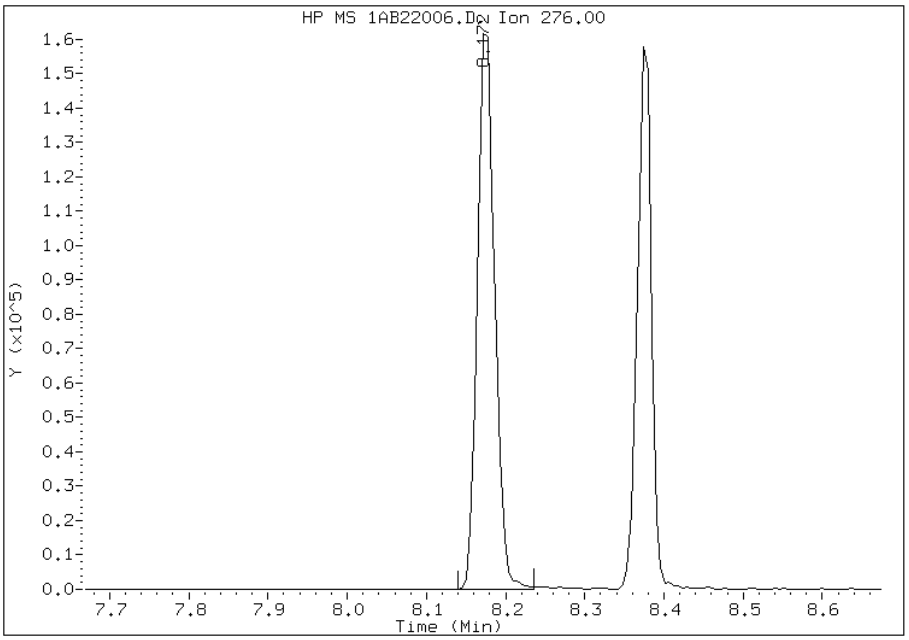
Processing Integration Results

RT: 8.17

Response: 242829

Amount: 11

Conc: 11



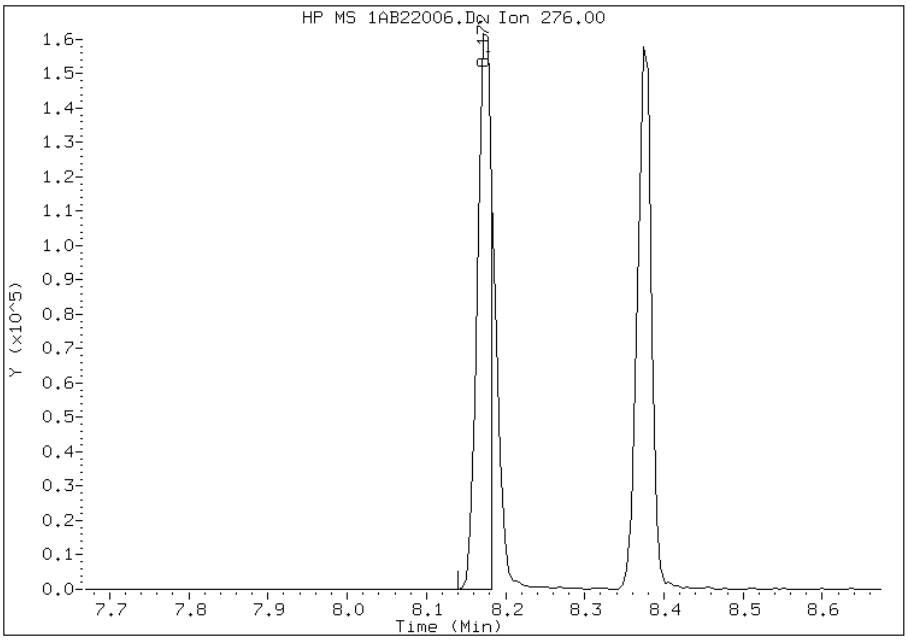
Manual Integration Results

RT: 8.17

Response: 197900

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 12:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:47 Cal File: 1AB22006.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.396	2.396	(1.000)	991704	40.0000	
* 6 Acenaphthene-d10	164	3.416	3.416	(1.000)	622858	40.0000	
* 10 Phenanthrene-d10	188	4.351	4.351	(1.000)	968921	40.0000	
$ 14 o-Terphenyl	230	4.634	4.634	(1.065)	269717	20.0000	19.1304
* 18 Chrysene-d12	240	6.365	6.365	(1.000)	842371	40.0000	
* 23 Perylene-d12	264	7.455	7.455	(1.000)	860097	40.0000	
2 Naphthalene	128	2.401	2.401	(1.002)	470879	20.0000	19.7050
3 2-Methylnaphthalene	141	2.807	2.807	(1.172)	248487	20.0000	20.1429
4 1-Methylnaphthalene	142	2.861	2.861	(1.194)	271250	20.0000	19.7457
5 Acenaphthylene	152	3.331	3.331	(0.975)	493767	20.0000	21.2312
7 Acenaphthene	154	3.433	3.433	(1.005)	264764	20.0000	19.7023
9 Fluorene	166	3.742	3.742	(1.095)	334396	20.0000	19.7158
11 Phenanthrene	178	4.367	4.367	(1.004)	480919	20.0000	19.9683
12 Anthracene	178	4.399	4.399	(1.011)	472782	20.0000	20.2094
13 Carbazole	167	4.554	4.554	(1.047)	406225	20.0000	19.6706
15 Fluoranthene	202	5.227	5.227	(1.201)	495614	20.0000	20.5813
16 Pyrene	202	5.393	5.393	(0.847)	525727	20.0000	21.2776
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	478213	20.0000	19.0125
19 Chrysene	228	6.387	6.387	(1.003)	451380	20.0000	20.0655
20 Benzo(b)fluoranthene	252	7.177	7.177	(0.963)	467596	20.0000	21.4460
21 Benzo(k)fluoranthene	252	7.199	7.199	(0.966)	449664	20.0000	20.4993
22 Benzo(a)pyrene	252	7.407	7.407	(0.994)	424369	20.0000	21.2532
24 Indeno(1,2,3-cd)pyrene	276	8.176	8.176	(1.097)	373229	20.0000	21.7877(M)
25 Dibenzo(a,h)anthracene	278	8.192	8.192	(1.099)	375714	20.0000	21.0471
26 Benzo(g,h,i)perylene	276	8.385	8.385	(1.125)	381649	20.0000	20.9468

QC Flag Legend

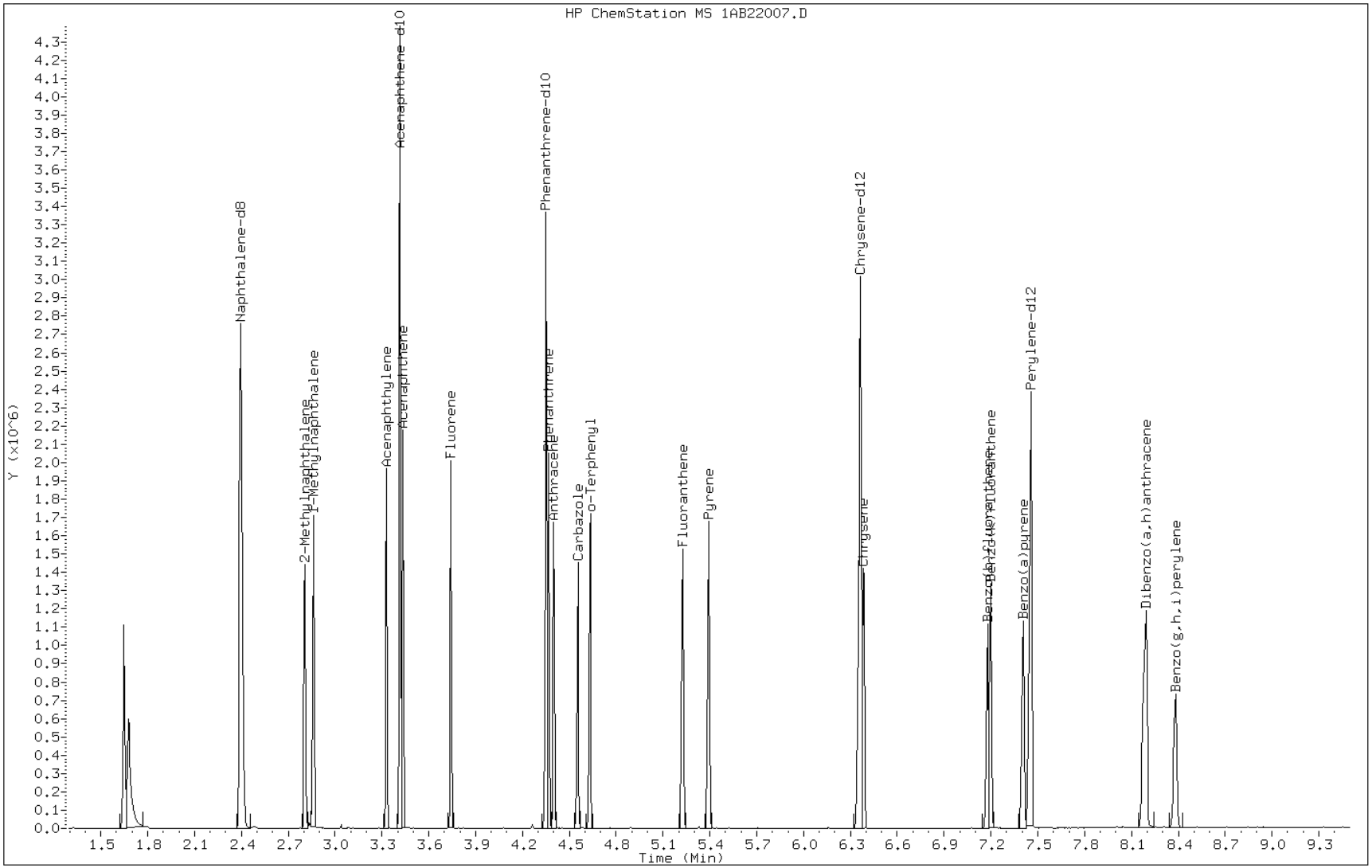
M - Compound response manually integrated.

Data File: 1AB22007.D

Date: 22-FEB-2013 12:02

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB22007.D
Inj. Date and Time: 22-FEB-2013 12:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

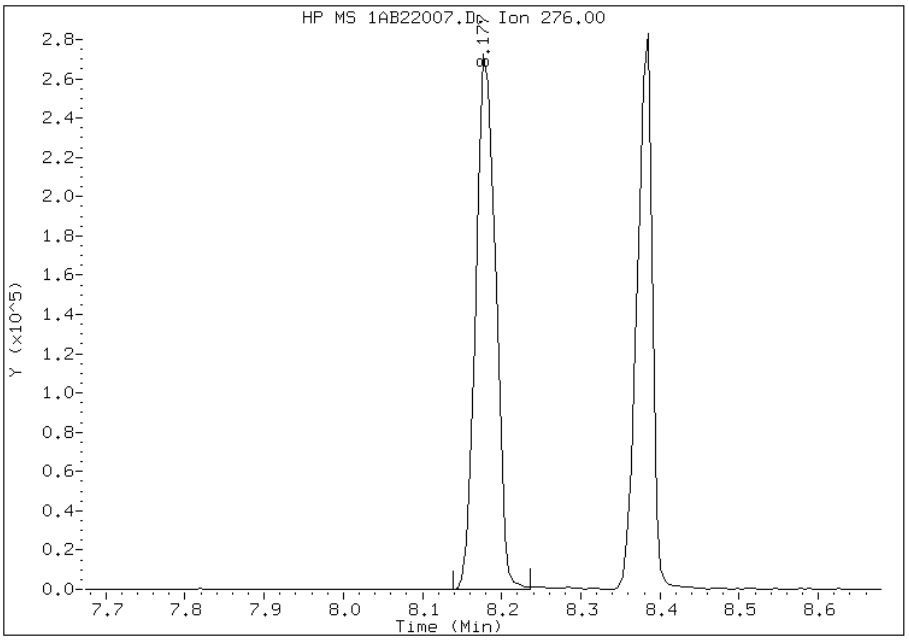
Processing Integration Results

RT: 8.18

Response: 469388

Amount: 25

Conc: 25



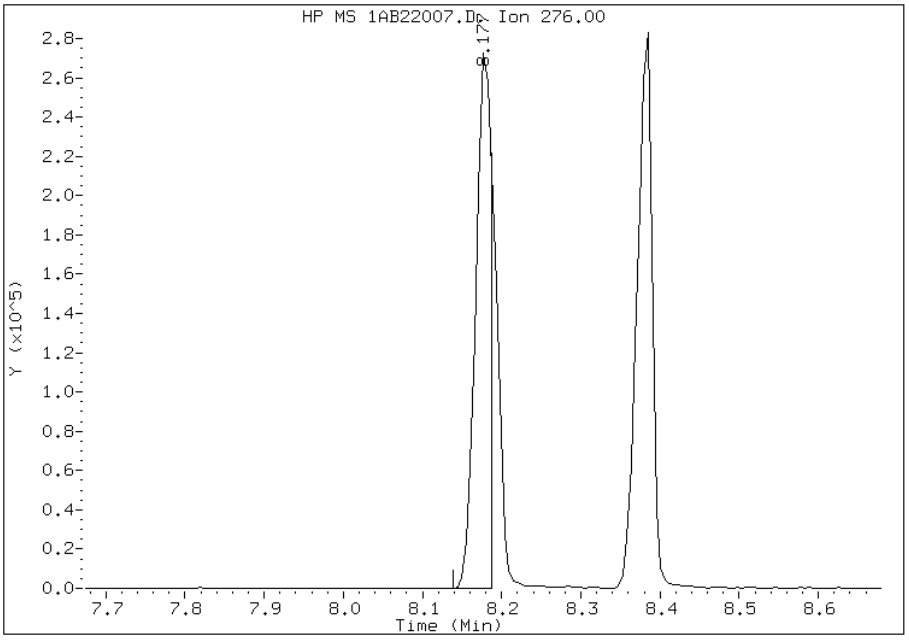
Manual Integration Results

RT: 8.18

Response: 373229

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:51
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 12:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:02 Cal File: 1AB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.389	2.396	(1.000)	991596	40.0000	
*	6 Acenaphthene-d10	164	3.415	3.416	(1.000)	638966	40.0000	
*	10 Phenanthrene-d10	188	4.355	4.351	(1.000)	958764	40.0000	
$	14 o-Terphenyl	230	4.633	4.634	(1.064)	454607	30.0000	32.5859
*	18 Chrysene-d12	240	6.369	6.365	(1.000)	877633	40.0000	
*	23 Perylene-d12	264	7.459	7.455	(1.000)	909629	40.0000	
	2 Naphthalene	128	2.405	2.401	(1.007)	755068	30.0000	31.6010
	3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	392415	30.0000	31.8135
	4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	443774	30.0000	32.3081
	5 Acenaphthylene	152	3.329	3.331	(0.975)	777111	30.0000	32.5722
	7 Acenaphthene	154	3.436	3.433	(1.006)	451477	30.0000	32.7495
	9 Fluorene	166	3.746	3.742	(1.097)	560865	30.0000	32.2347
	11 Phenanthrene	178	4.371	4.367	(1.004)	768793	30.0000	32.2593
	12 Anthracene	178	4.403	4.399	(1.011)	760474	30.0000	32.8515
	13 Carbazole	167	4.558	4.554	(1.047)	670812	30.0000	32.8268
	15 Fluoranthene	202	5.231	5.227	(1.201)	791244	30.0000	33.2061
	16 Pyrene	202	5.397	5.393	(0.847)	842188	30.0000	32.7162
	17 Benzo(a)anthracene	228	6.358	6.355	(0.998)	771629	30.0000	29.4453
	19 Chrysene	228	6.390	6.387	(1.003)	708418	30.0000	30.2265
	20 Benzo(b)fluoranthene	252	7.181	7.177	(0.963)	734907	30.0000	31.8706
	21 Benzo(k)fluoranthene	252	7.202	7.199	(0.966)	700196	30.0000	30.1824
	22 Benzo(a)pyrene	252	7.411	7.407	(0.994)	676641	30.0000	32.0421
	24 Indeno(1,2,3-cd)pyrene	276	8.191	8.176	(1.098)	584416	30.0000	32.2584(M)
	25 Dibenzo(a,h)anthracene	278	8.207	8.192	(1.100)	595548	30.0000	31.5453
	26 Benzo(g,h,i)perylene	276	8.394	8.385	(1.125)	604332	30.0000	31.3627

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB22008.D

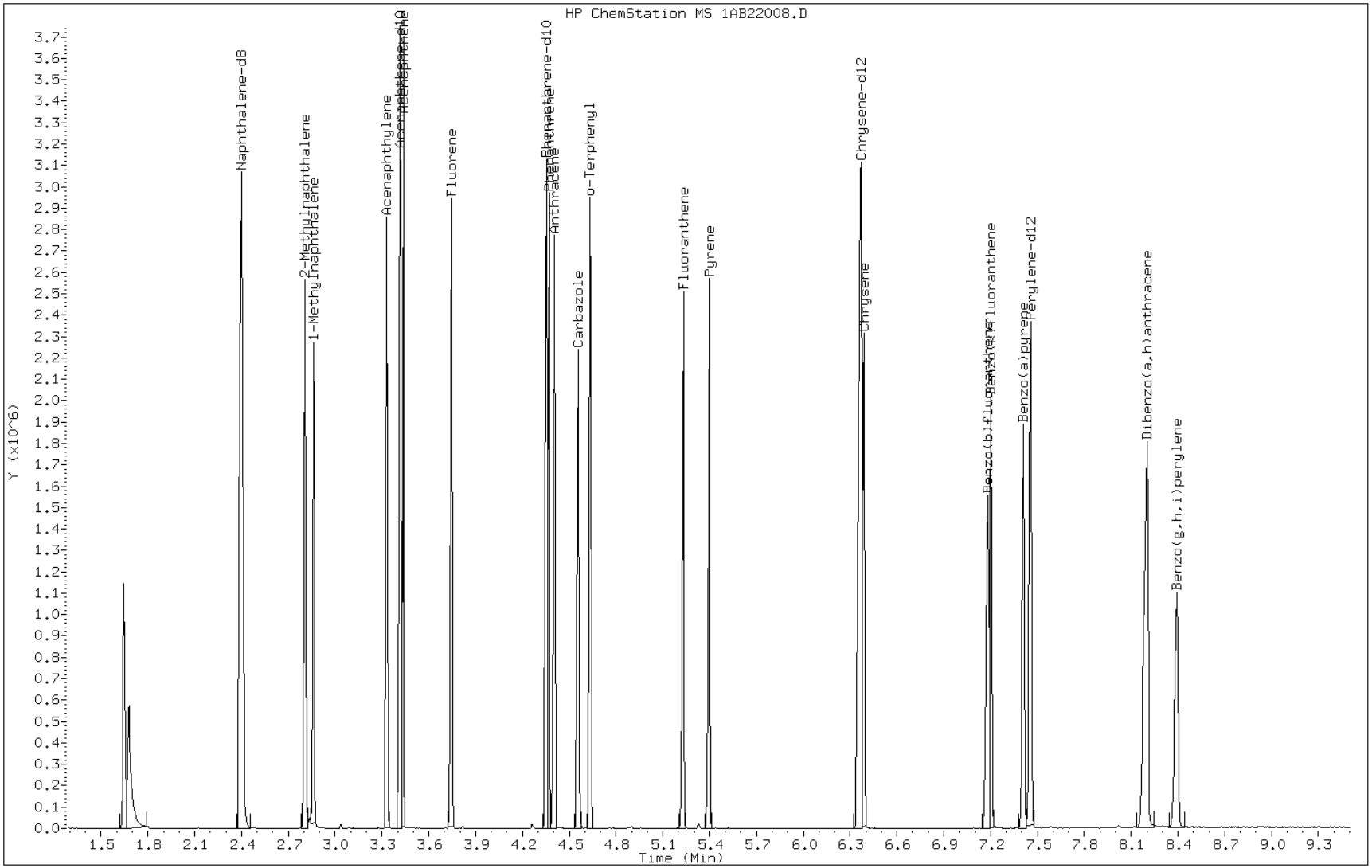
Date: 22-FEB-2013 12:17

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512373

Operator: SCC



Manual Integration Report

Data File: 1AB22008.D
Inj. Date and Time: 22-FEB-2013 12:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

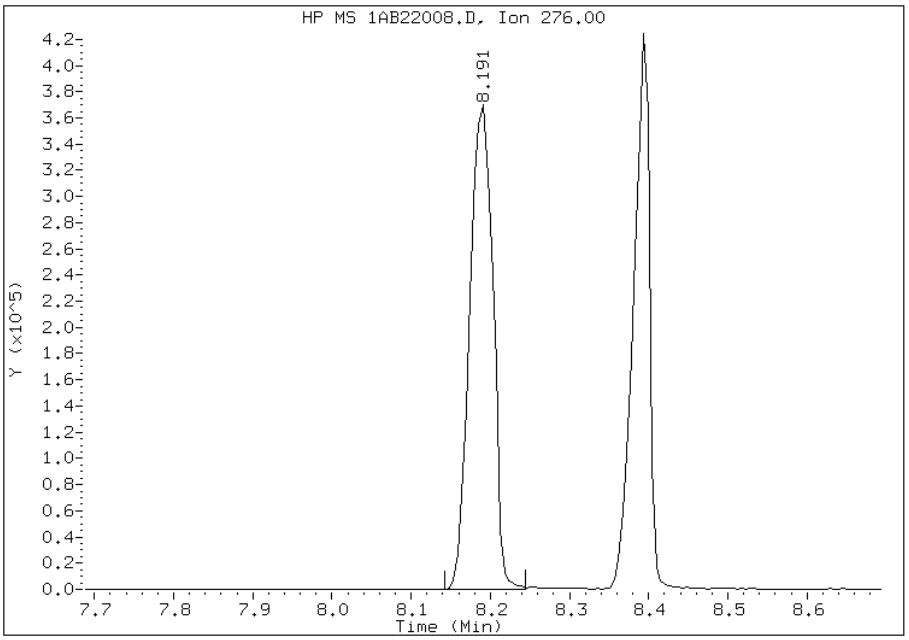
Processing Integration Results

RT: 8.19

Response: 747475

Amount: 34

Conc: 34



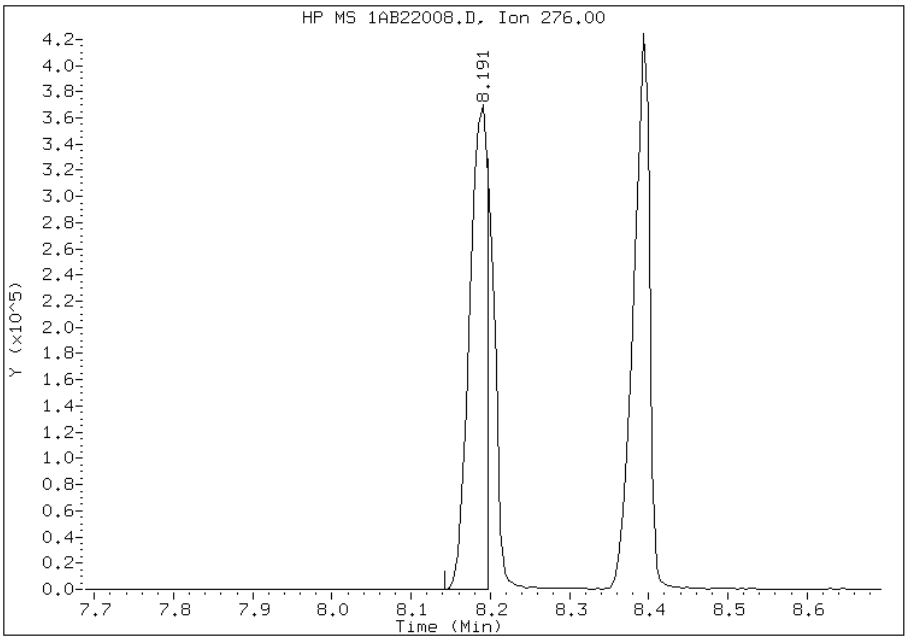
Manual Integration Results

RT: 8.19

Response: 584416

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:55
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 12:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:17 Cal File: 1AB22008.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	2.398	2.396	(1.000)	998404	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.416	(1.000)	614159	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	947061	40.0000	
$ 14 o-Terphenyl	230	4.637	4.634	(1.065)	805122	50.0000	58.4237(A)
* 18 Chrysene-d12	240	6.373	6.365	(1.000)	892104	40.0000	
* 23 Perylene-d12	264	7.457	7.455	(1.000)	879311	40.0000	
2 Naphthalene	128	2.404	2.401	(1.002)	1297783	50.0000	53.9443(A)
3 2-Methylnaphthalene	141	2.810	2.807	(1.171)	686127	50.0000	55.2458(A)
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	784083	50.0000	56.6945(A)
5 Acenaphthylene	152	3.333	3.331	(0.975)	1395142	50.0000	60.8387(A)
7 Acenaphthene	154	3.440	3.433	(1.006)	828395	50.0000	62.5178(A)
9 Fluorene	166	3.745	3.742	(1.095)	1022945	50.0000	61.1667(A)
11 Phenanthrene	178	4.375	4.367	(1.005)	1384065	50.0000	58.7944(A)
12 Anthracene	178	4.407	4.399	(1.012)	1356027	50.0000	59.3025(A)
13 Carbazole	167	4.562	4.554	(1.048)	1130623	50.0000	56.0118(A)
15 Fluoranthene	202	5.235	5.227	(1.202)	1364989	50.0000	57.9923(A)
16 Pyrene	202	5.401	5.393	(0.847)	1493658	50.0000	57.0824(A)
17 Benzo(a)anthracene	228	6.357	6.355	(0.997)	1351230	50.0000	50.7265(A)
19 Chrysene	228	6.394	6.387	(1.003)	1205320	50.0000	50.5940(A)
20 Benzo(b)fluoranthene	252	7.185	7.177	(0.963)	1222288	50.0000	54.8345(A)
21 Benzo(k)fluoranthene	252	7.212	7.199	(0.967)	1218648	50.0000	54.3418(A)
22 Benzo(a)pyrene	252	7.420	7.407	(0.995)	1142888	50.0000	55.9872(A)
24 Indeno(1,2,3-cd)pyrene	276	8.200	8.176	(1.100)	960232	50.0000	54.8300(AM)
25 Dibenzo(a,h)anthracene	278	8.216	8.192	(1.102)	1030642	50.0000	56.4740(A)
26 Benzo(g,h,i)perylene	276	8.403	8.385	(1.127)	1012084	50.0000	54.3345(A)

QC Flag Legend

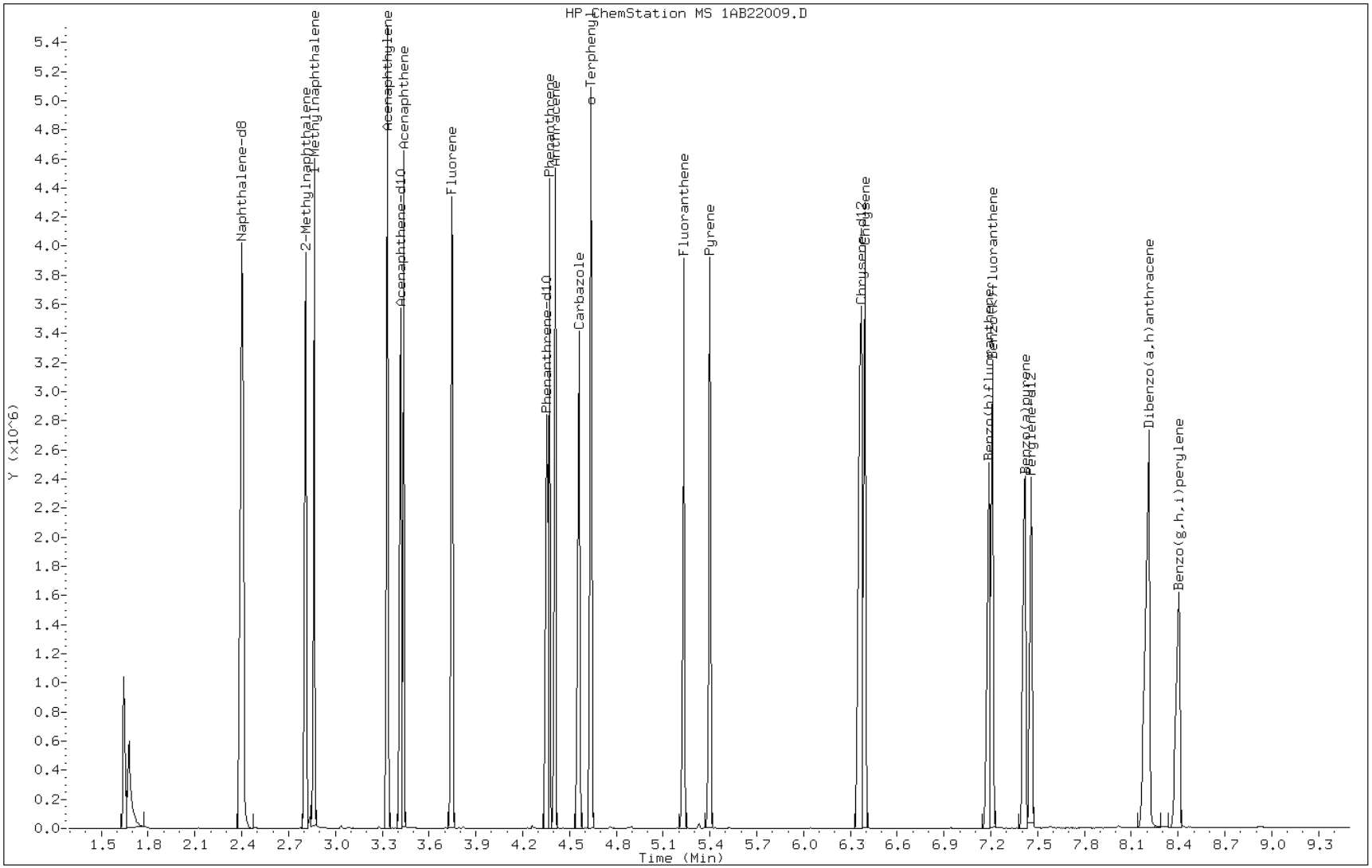
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AB22009.D

Date: 22-FEB-2013 12:32

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1AB22009.D
Inj. Date and Time: 22-FEB-2013 12:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

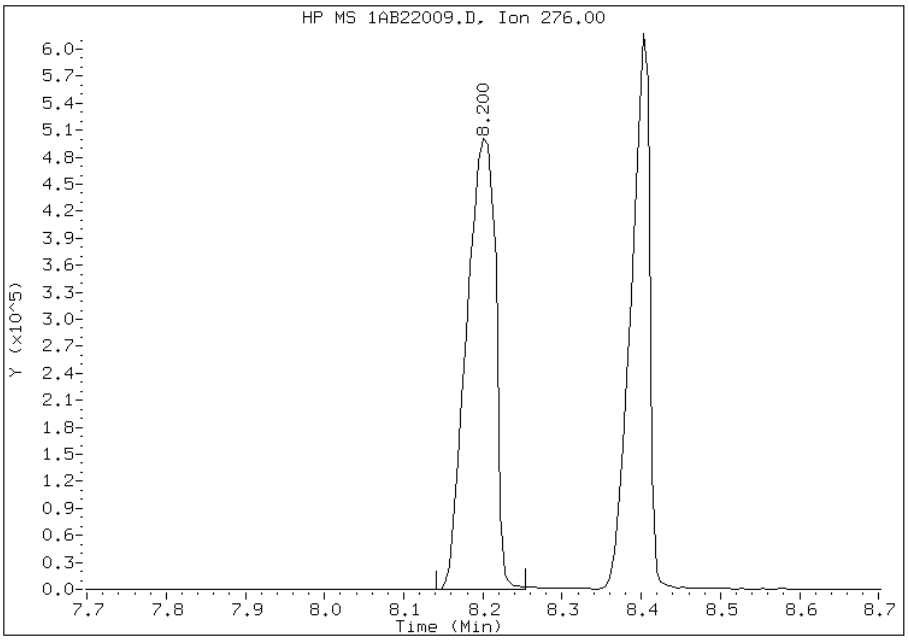
Processing Integration Results

RT: 8.20

Response: 1257157

Amount: 57

Conc: 57



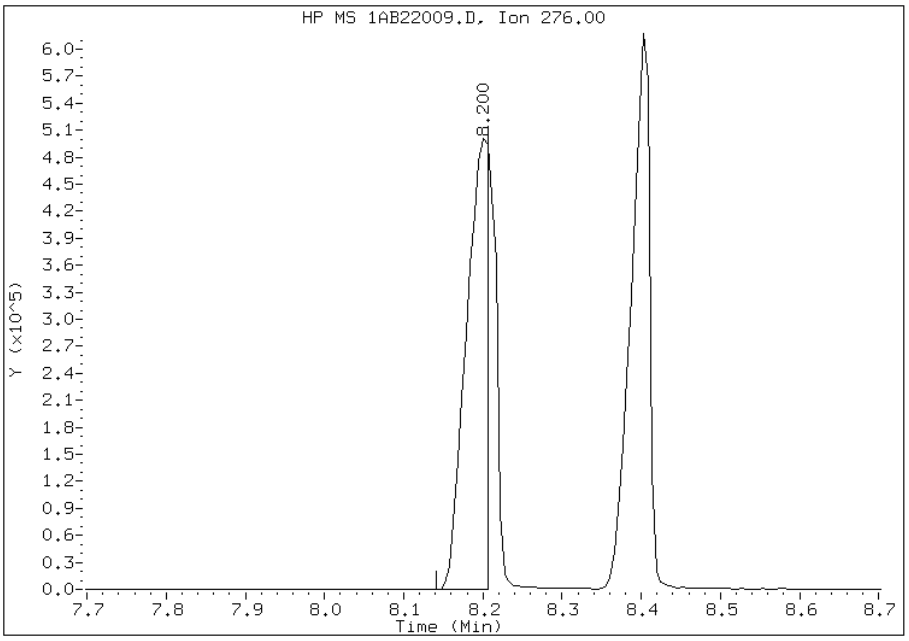
Manual Integration Results

RT: 8.20

Response: 960232

Amount: 55

Conc: 55



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:56
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88067-1 Analy Batch No.: 134776

SDG No.: 68088067-1

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.: 680-88067-1 Analy Batch No.: 134776

SDG No.: 68088067-1

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.: 680-88067-1 Analy Batch No.: 134776

SDG No.: 68088067-1

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.: 680-88067-1 Analy Batch No.: 134776

SDG No.: 68088067-1

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)	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

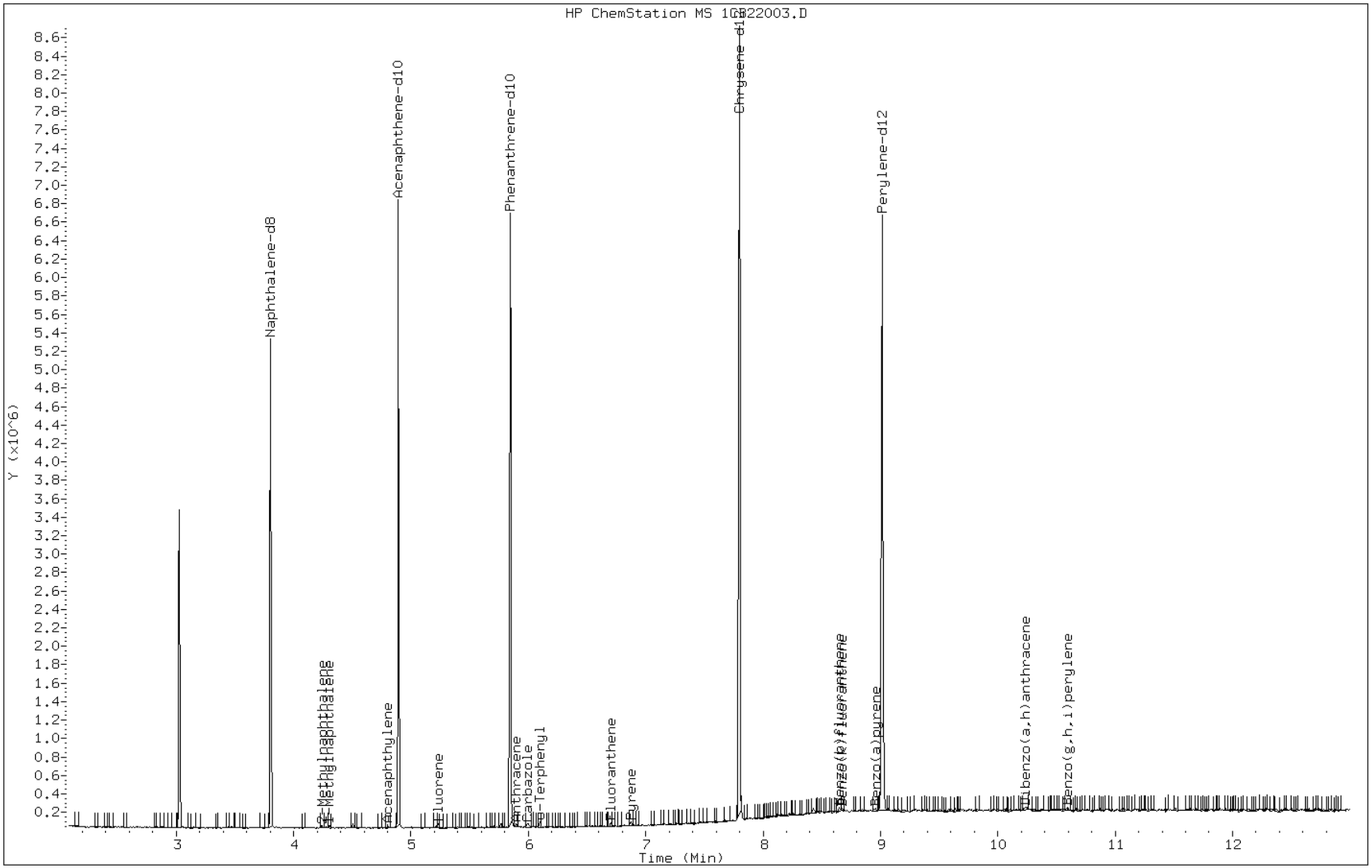
Date: 22-FEB-2013 11:57

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

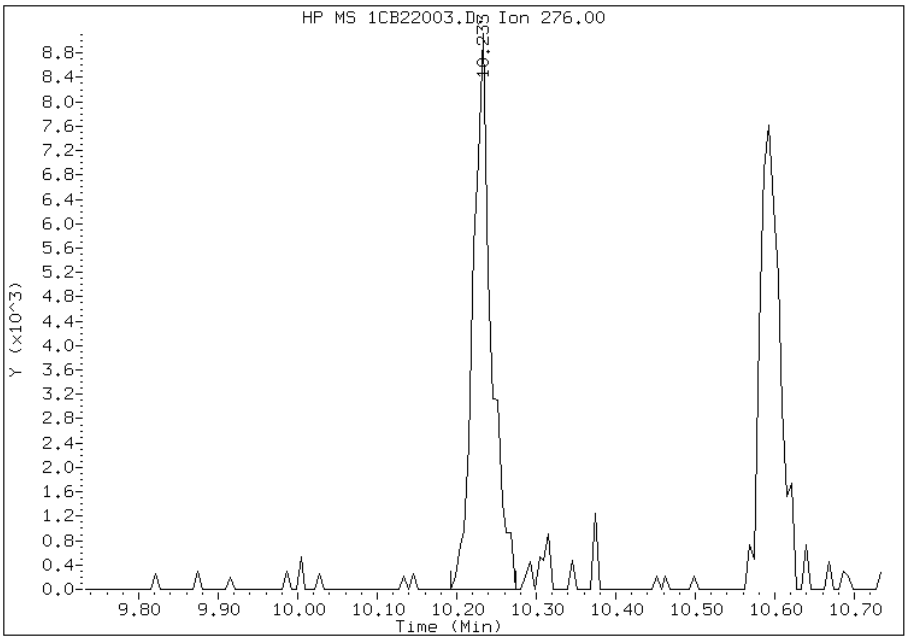
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



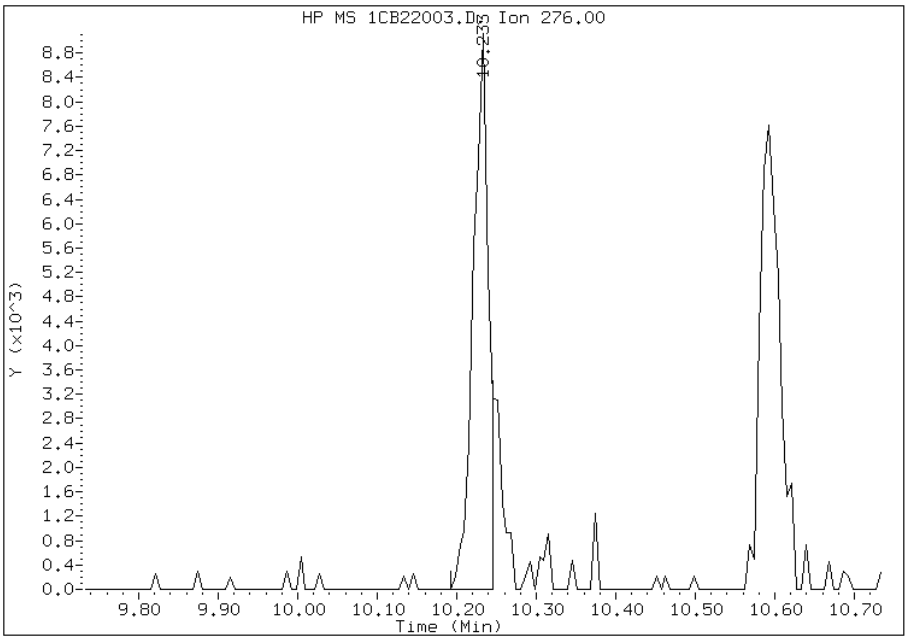
Manual Integration Results

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

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000) 1243608	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000) 931732	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000) 1740509	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043) 23584	1.00000	0.8974
*	18 Chrysene-d12	240	7.798	7.798	(1.000) 2144273	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000) 2349732	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003) 31413	1.00000	0.9702(Q)
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116) 19516	1.00000	0.9036
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131) 17615	1.00000	0.8955
	5 Acenaphthylene	152	4.804	4.804	(0.982) 33214	1.00000	0.8841
	7 Acenaphthene	154	4.910	4.910	(1.004) 21590	1.00000	0.9246
	9 Fluorene	166	5.233	5.233	(1.070) 28314	1.00000	0.9588
	11 Phenanthrene	178	5.862	5.862	(1.003) 51473	1.00000	1.0227
	12 Anthracene	178	5.898	5.898	(1.009) 45666	1.00000	0.9277
	13 Carbazole	167	6.004	6.004	(1.027) 39992	1.00000	0.9140
	15 Fluoranthene	202	6.704	6.704	(1.147) 49039	1.00000	0.8897
	16 Pyrene	202	6.874	6.874	(0.882) 58472	1.00000	1.0147
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999) 62799	1.00000	1.0147
	19 Chrysene	228	7.815	7.815	(1.002) 64086	1.00000	1.0347
	20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960) 56338	1.00000	0.9174
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962) 55640	1.00000	0.8832
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993) 55481	1.00000	0.9301
	24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134) 48940	1.00000	0.8346(M)
	25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136) 50354	1.00000	0.9174
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175) 53913	1.00000	0.9185

QC Flag Legend

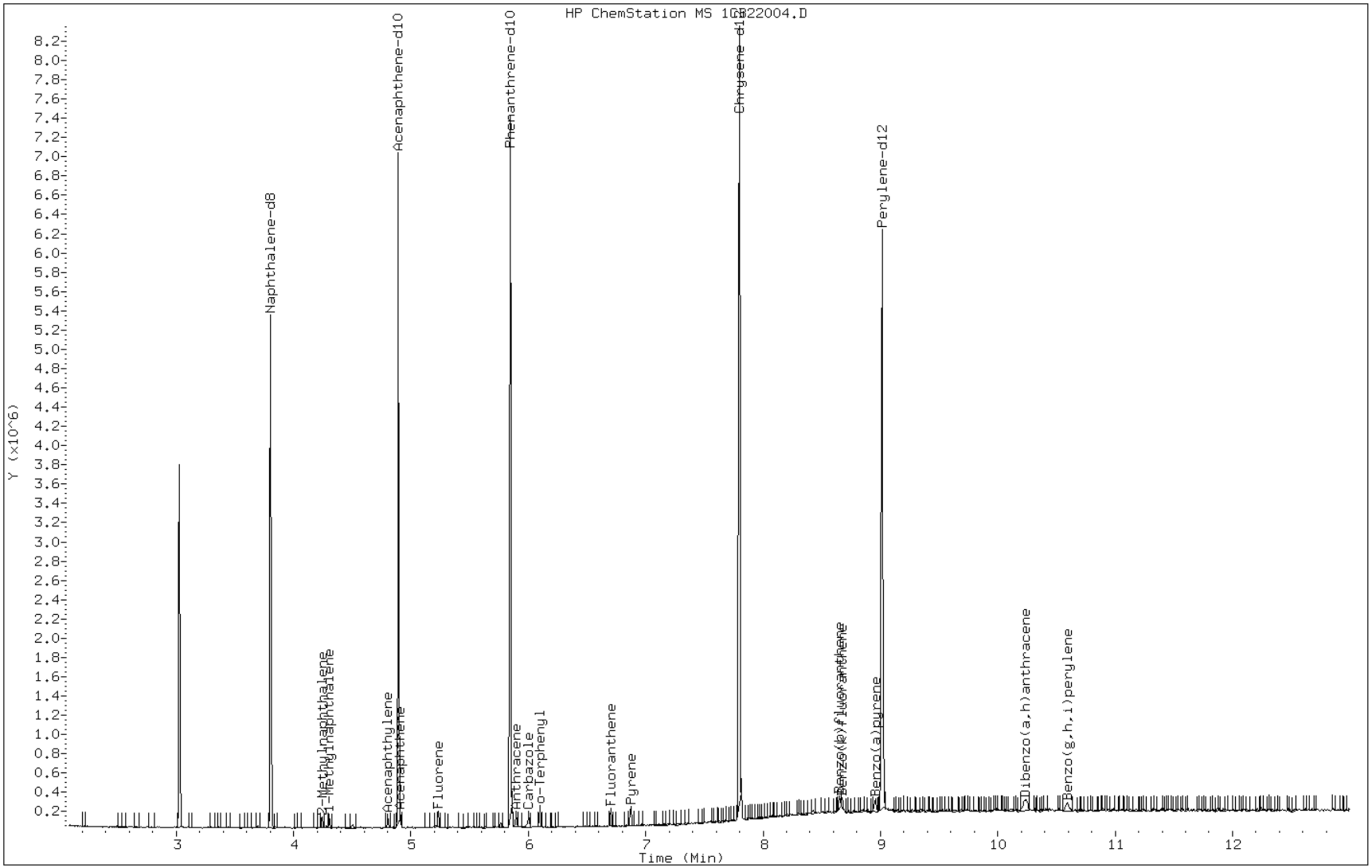
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22004.D

Date: 22-FEB-2013 12:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

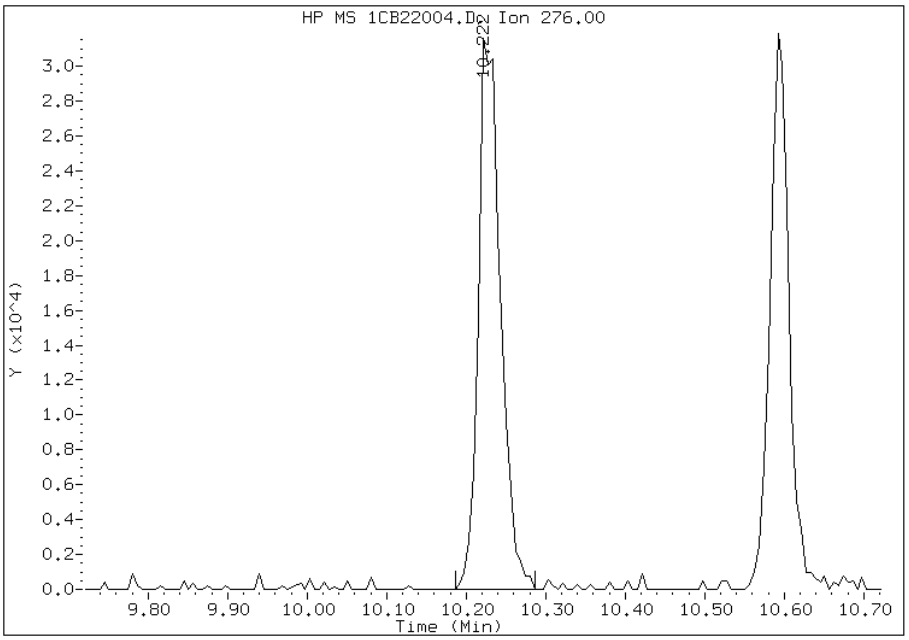
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



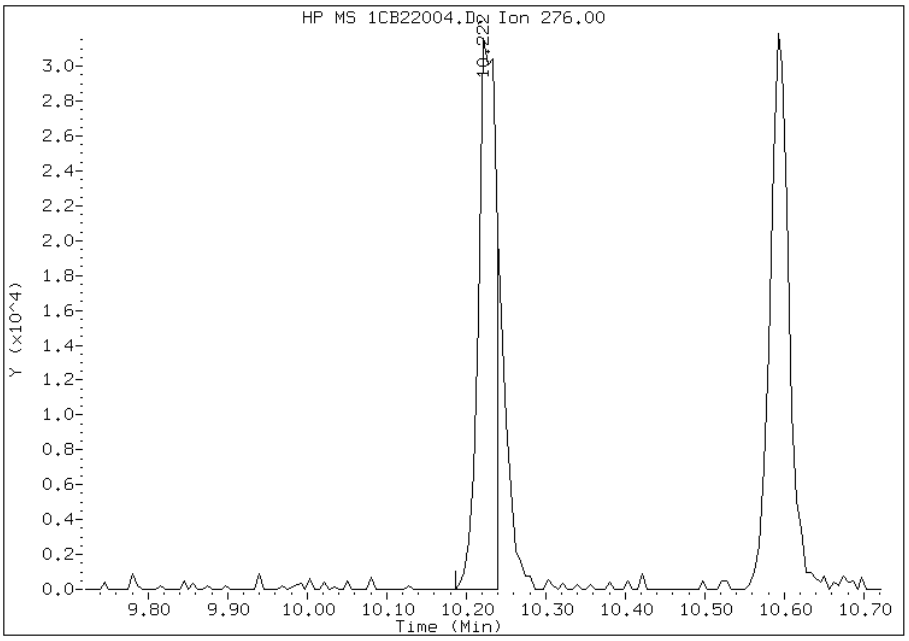
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
	5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
	7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
	9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
	11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
	12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
	13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
	15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
	16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
	17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
	19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
	20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
	24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
	25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

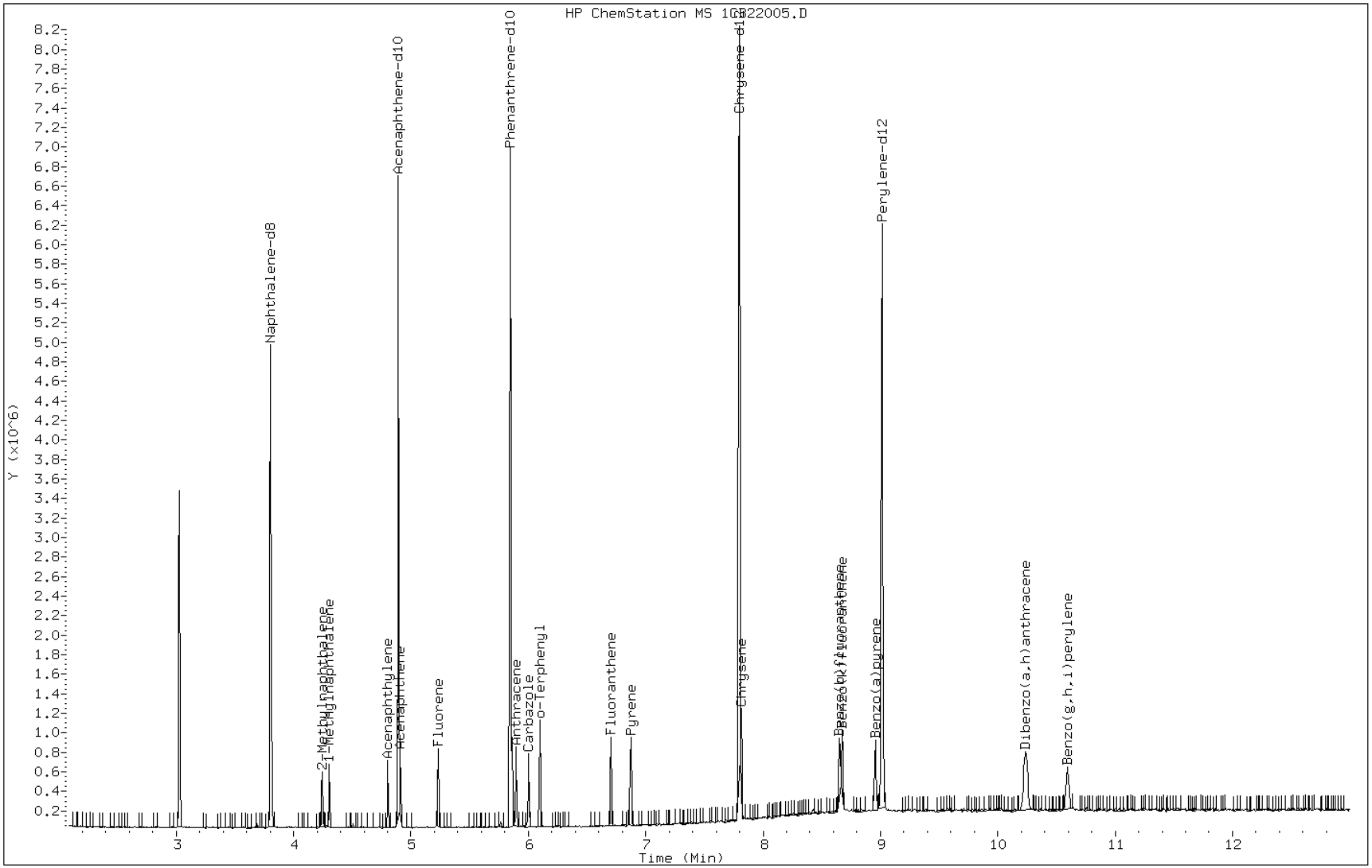
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC



Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

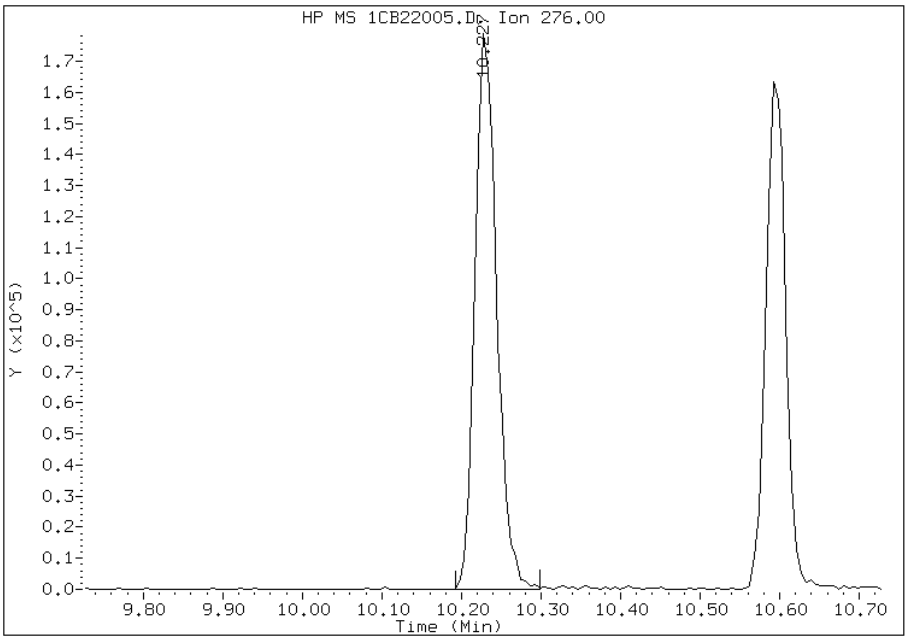
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



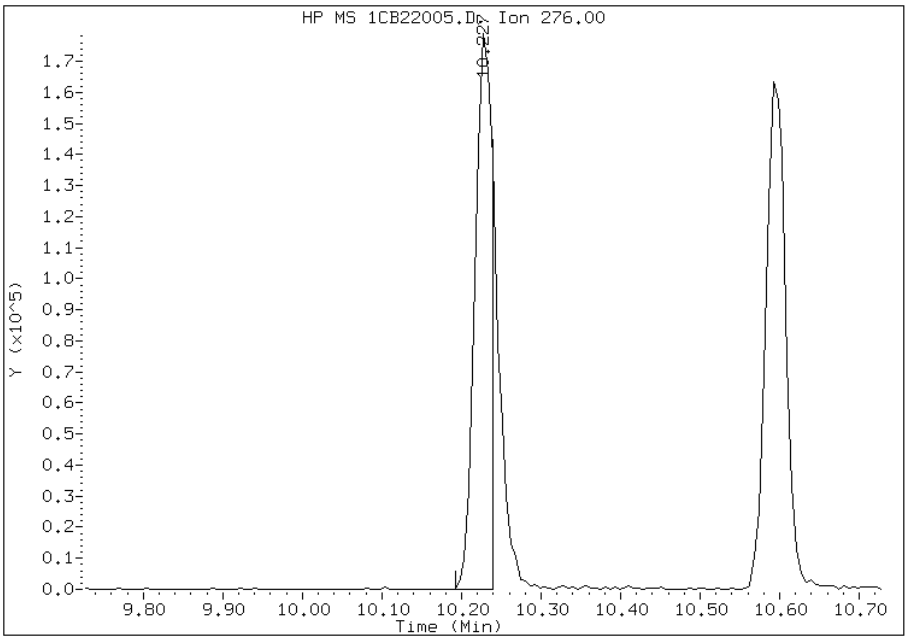
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
	5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
	7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
	9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
	11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
	12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
	13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
	15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
	16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
	17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
	19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
	20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
	21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
	22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
	24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
	25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
	26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

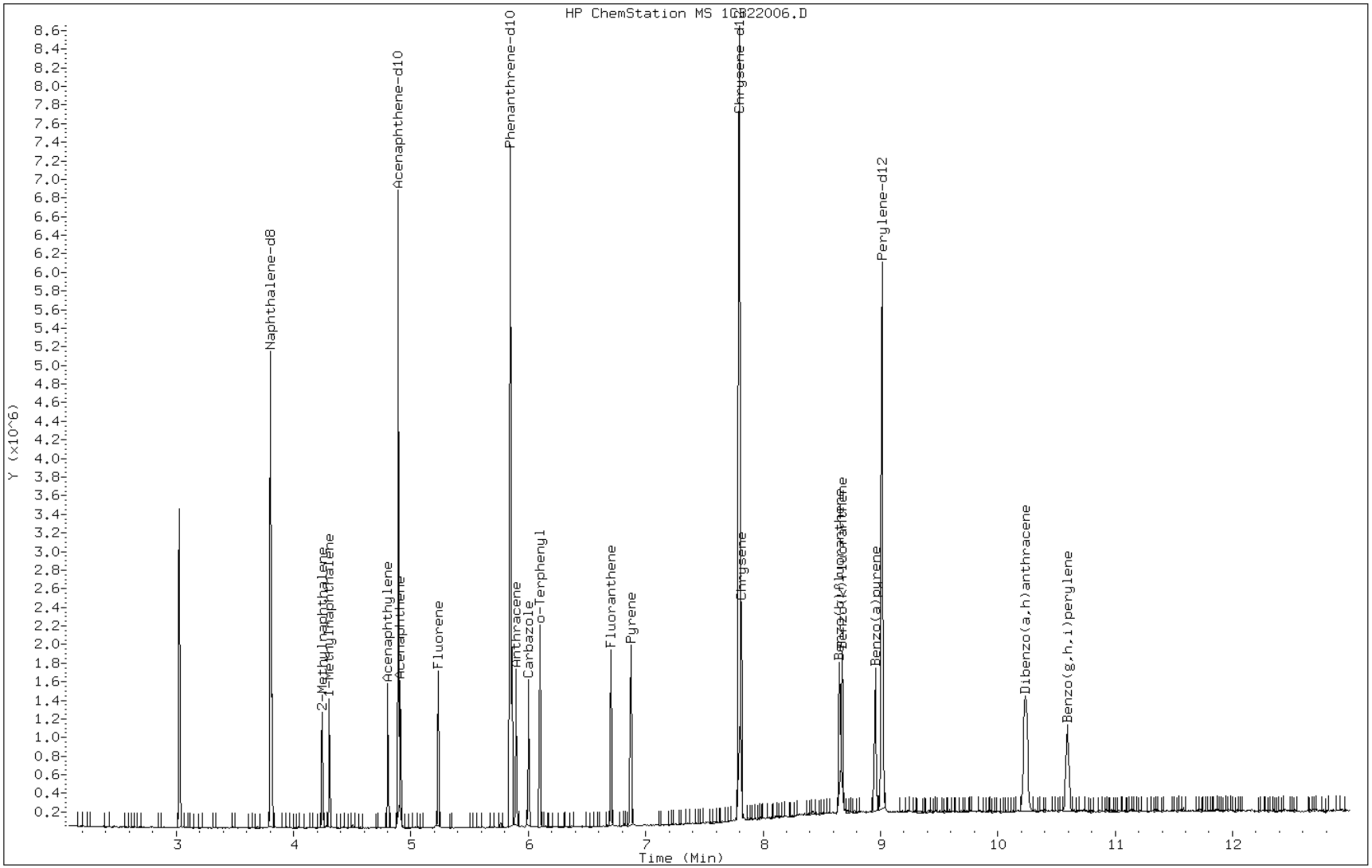
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

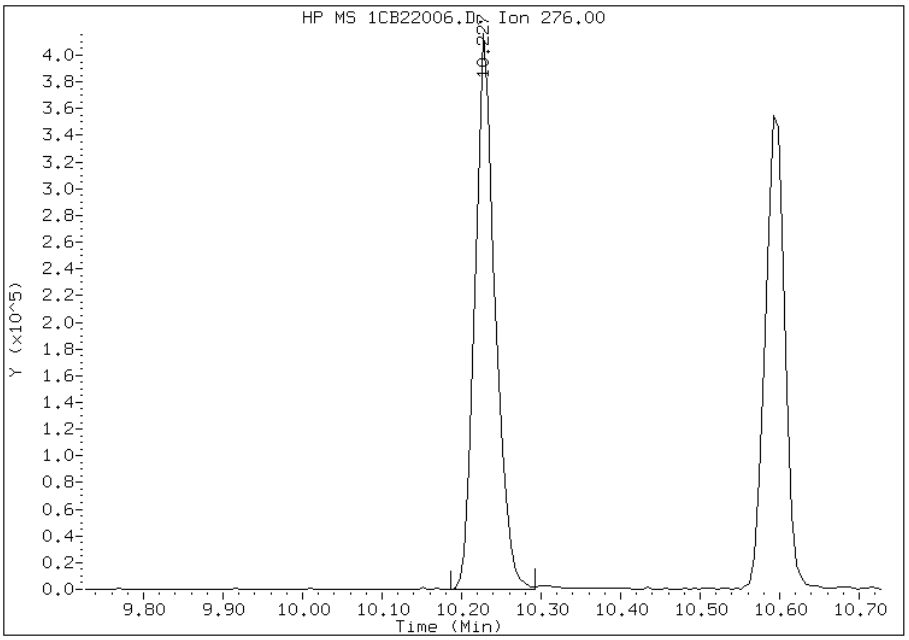
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



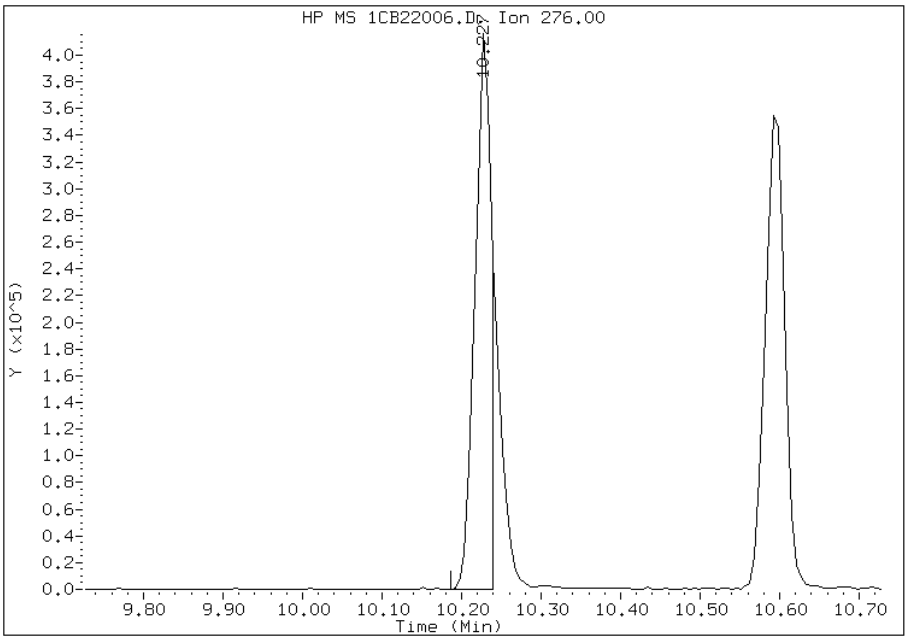
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
	5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
	7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
	9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
	11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
	12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
	13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
	15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
	16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
	19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
	20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
	21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
	22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
	24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
	25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
	26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

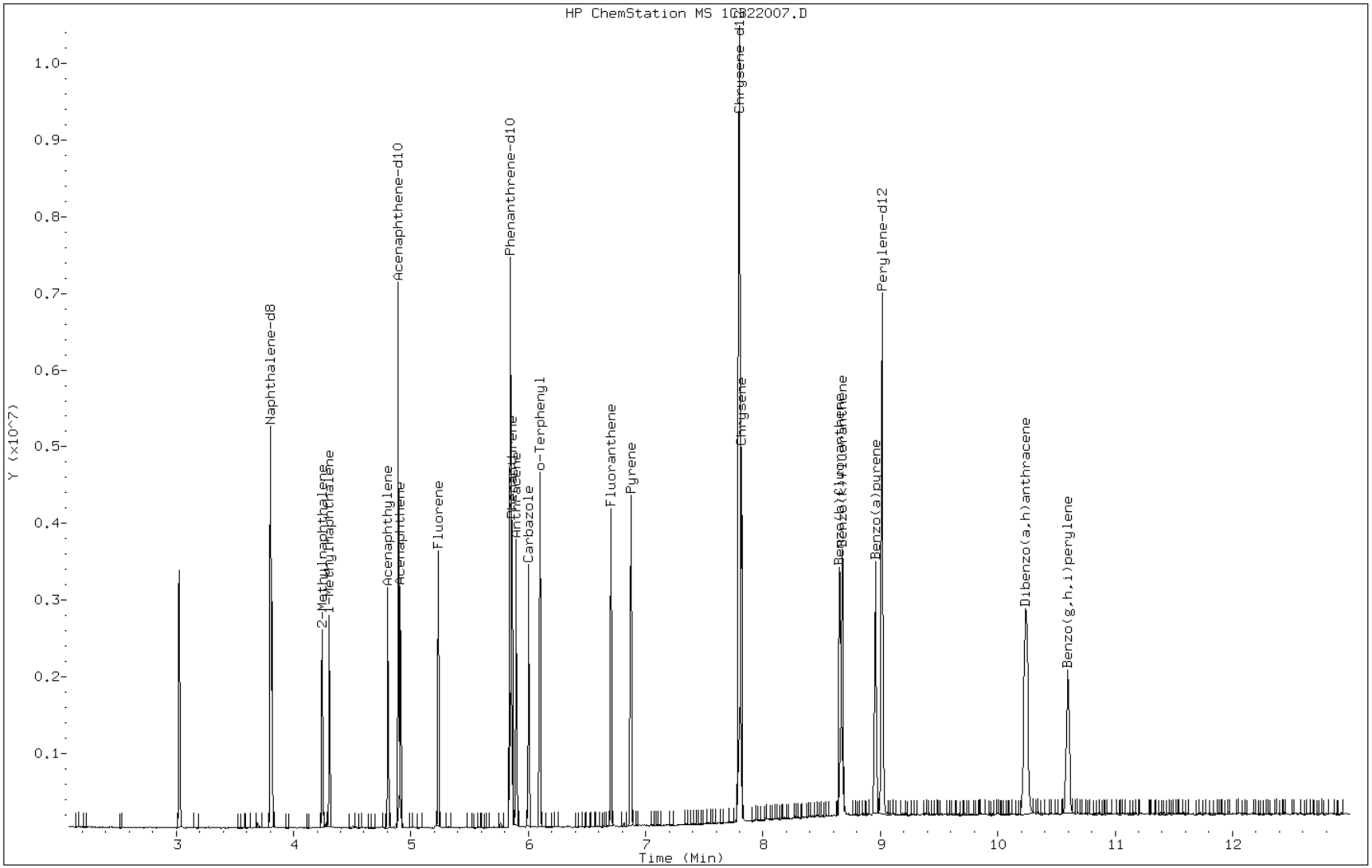
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

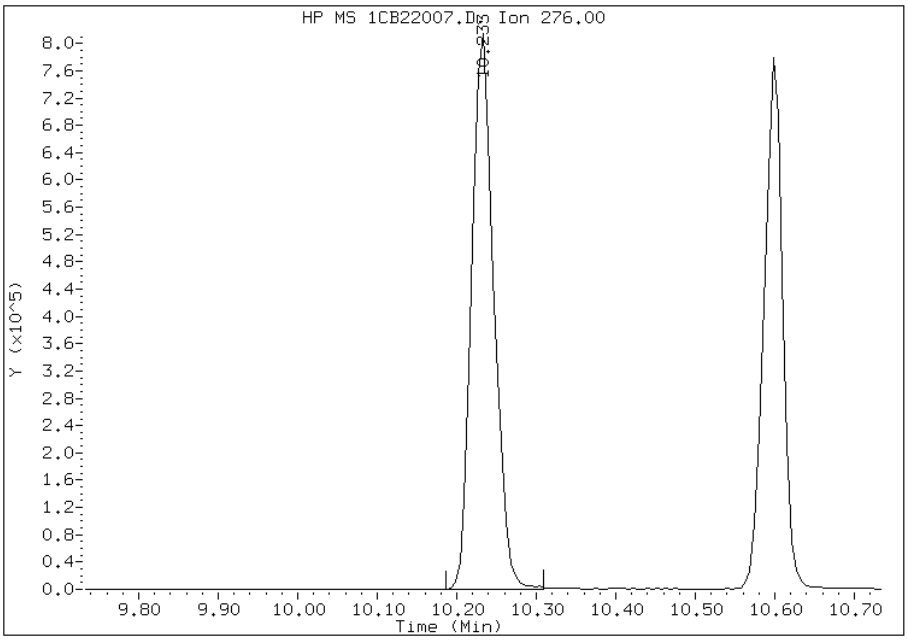
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



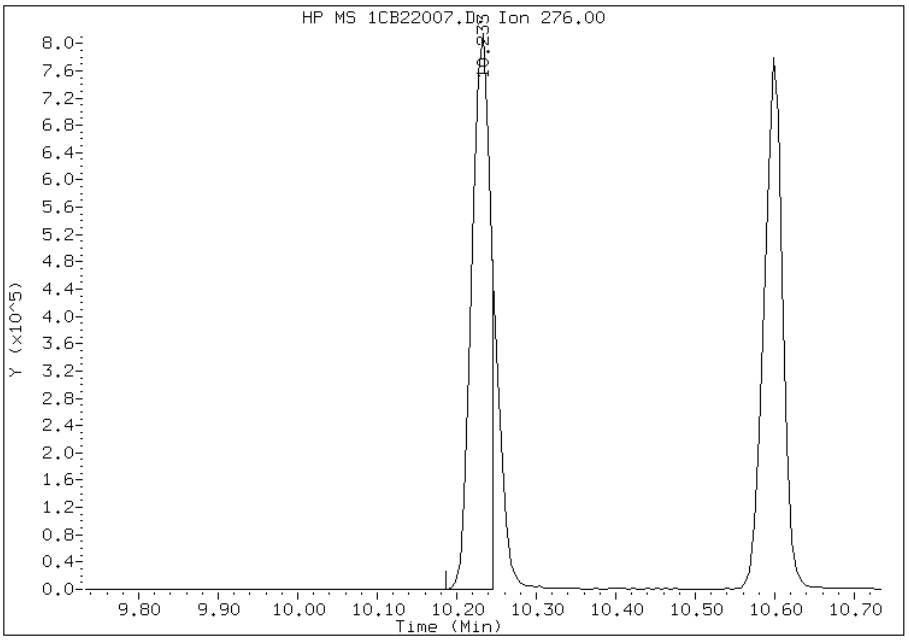
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
$	14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
	2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
	5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
	7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
	9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
	11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
	12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
	13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
	15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
	16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
	19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
	20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
	21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
	22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
	24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
	25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
	26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

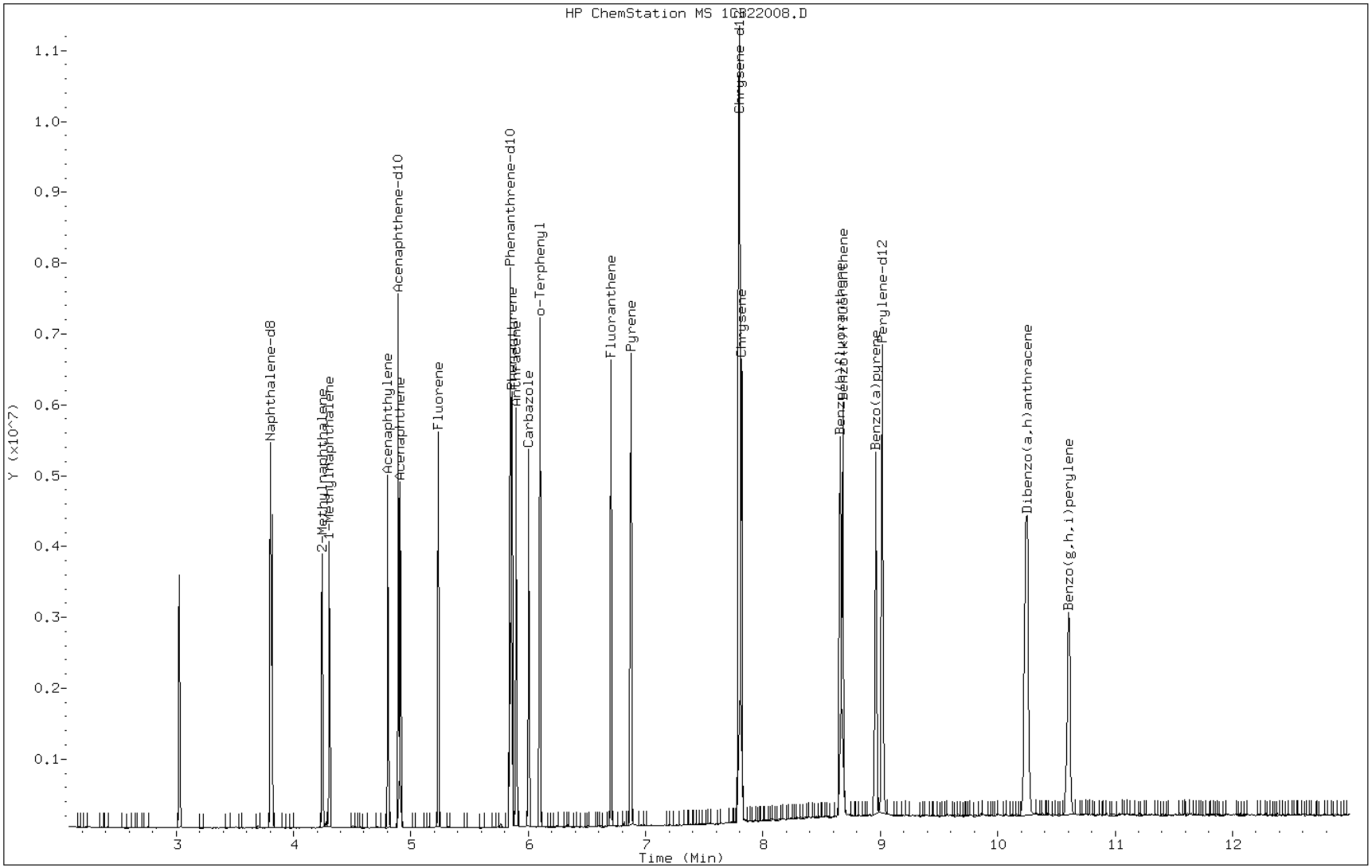
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC



Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

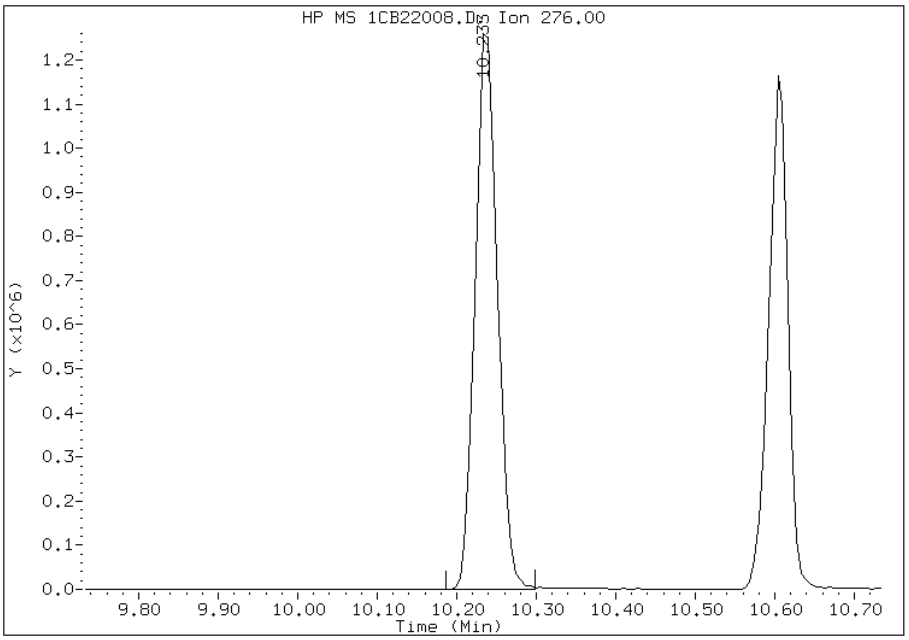
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



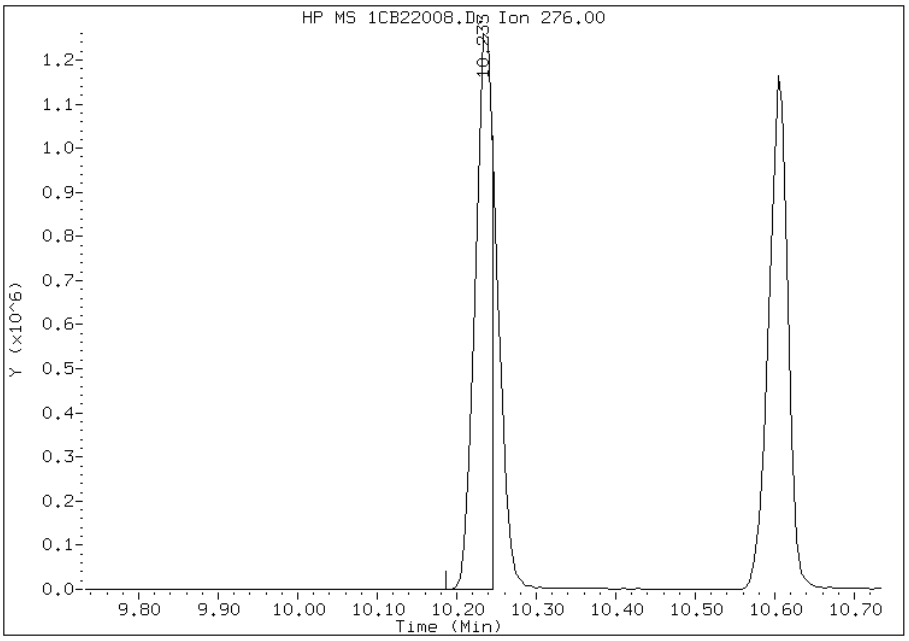
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

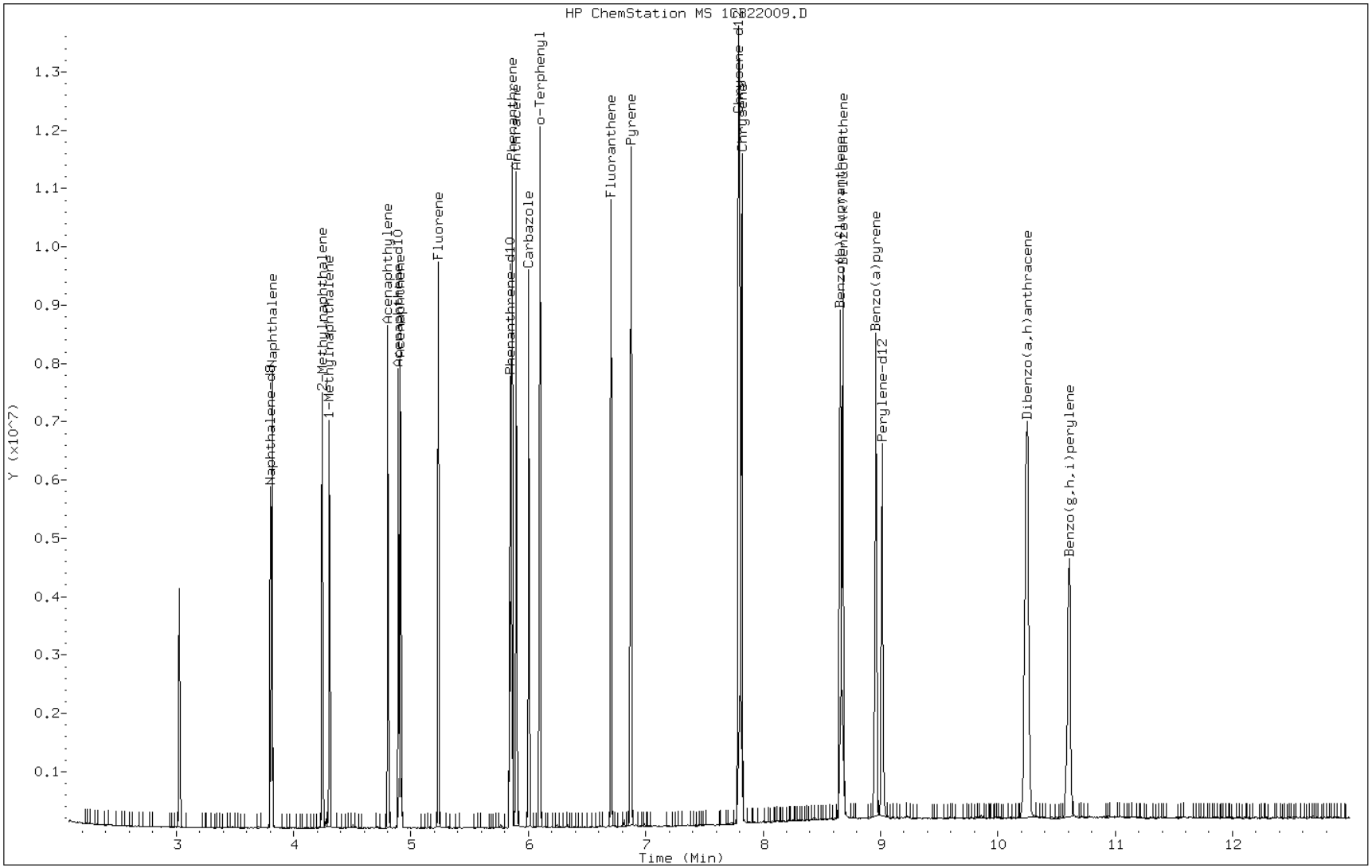
Date: 22-FEB-2013 13:48

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

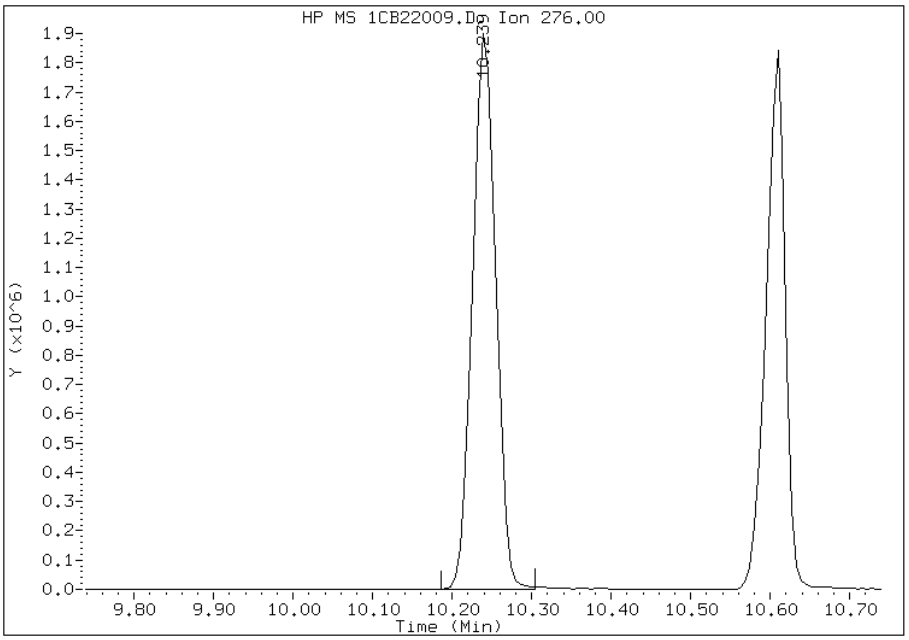
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



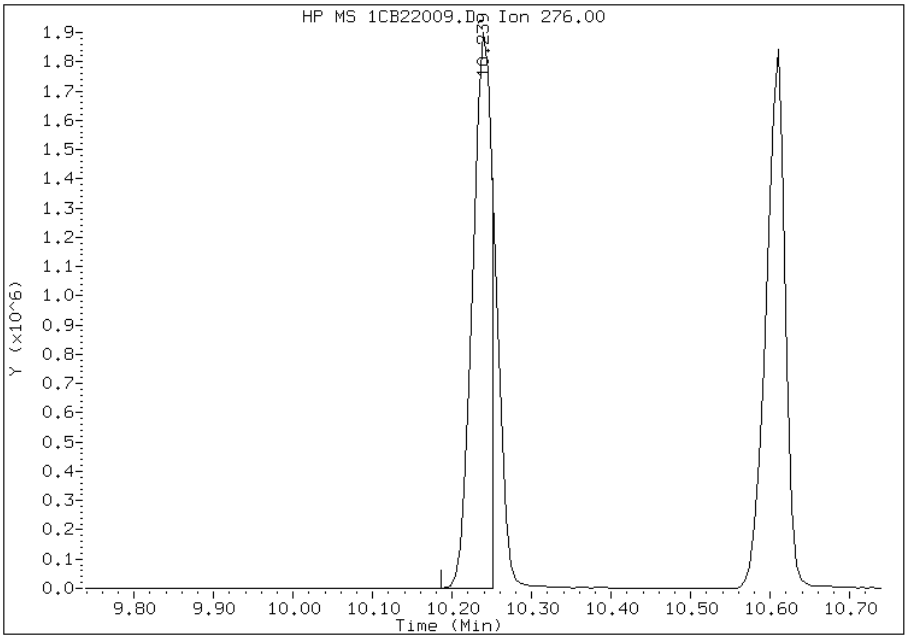
Manual Integration Results

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.: 680-88067-1 Analy Batch No.: 134781

SDG No.: 68088067-1

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.: 680-88067-1 Analy Batch No.: 134781

SDG No.: 68088067-1

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.: 680-88067-1 Analy Batch No.: 134781

SDG No.: 68088067-1

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.: 680-88067-1 Analy Batch No.: 134781

SDG No.: 68088067-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
*	6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
$	13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
*	17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
*	22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
	2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
	4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
	5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
	7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
	8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
	10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
	11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
	12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
	14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
	15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
	16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
	18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
	19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
	20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
	21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
	23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
	24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
	25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

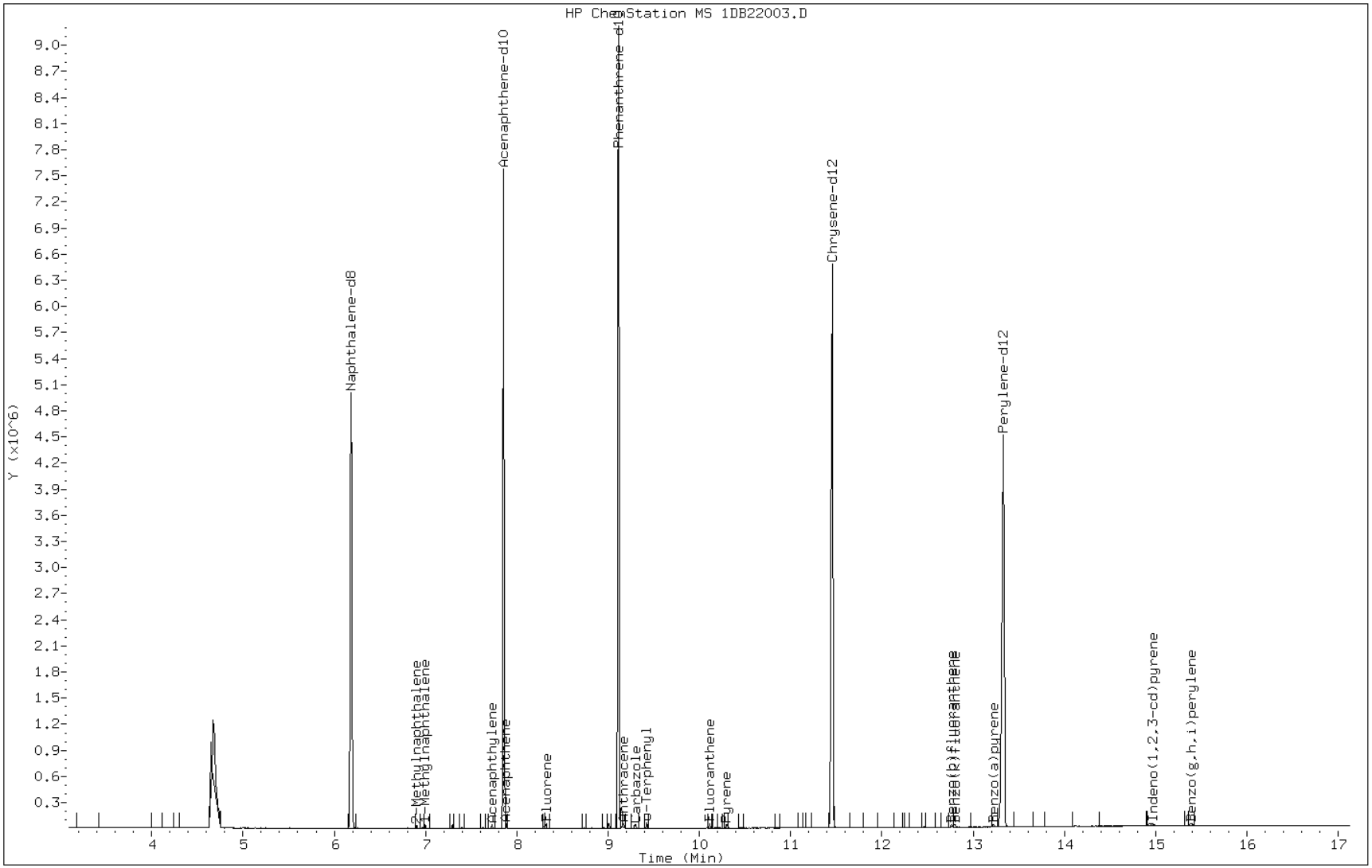
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

Date: 22-FEB-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

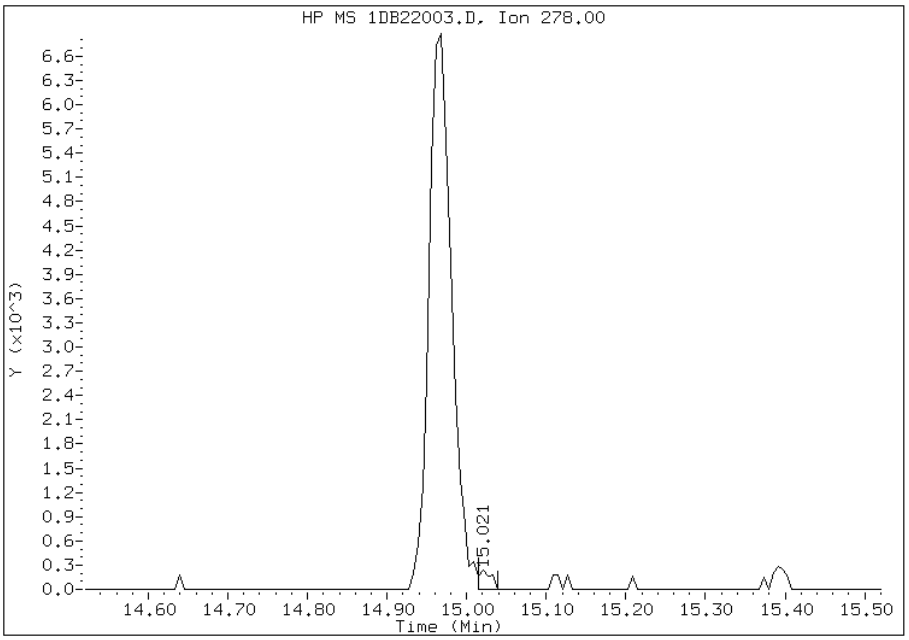
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



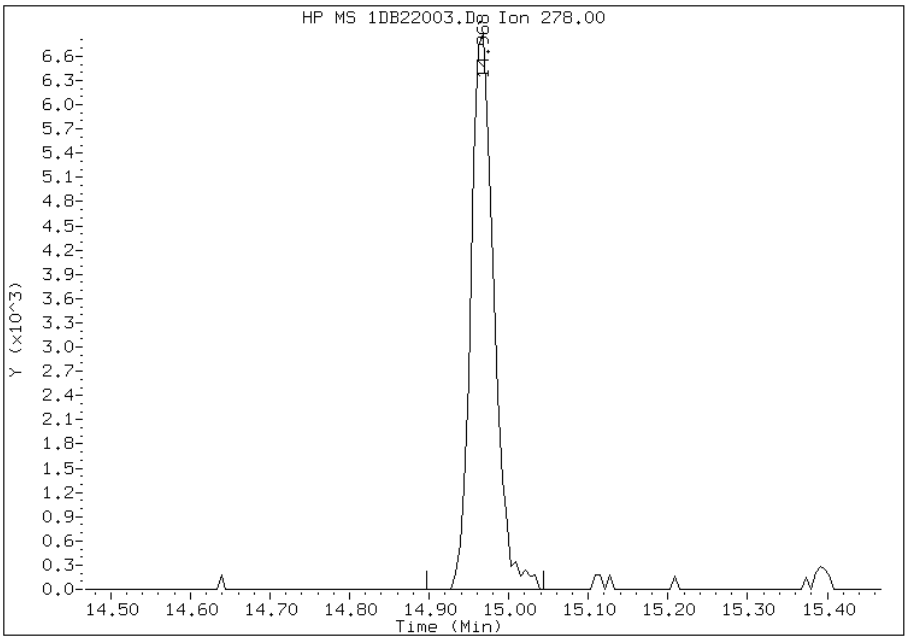
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

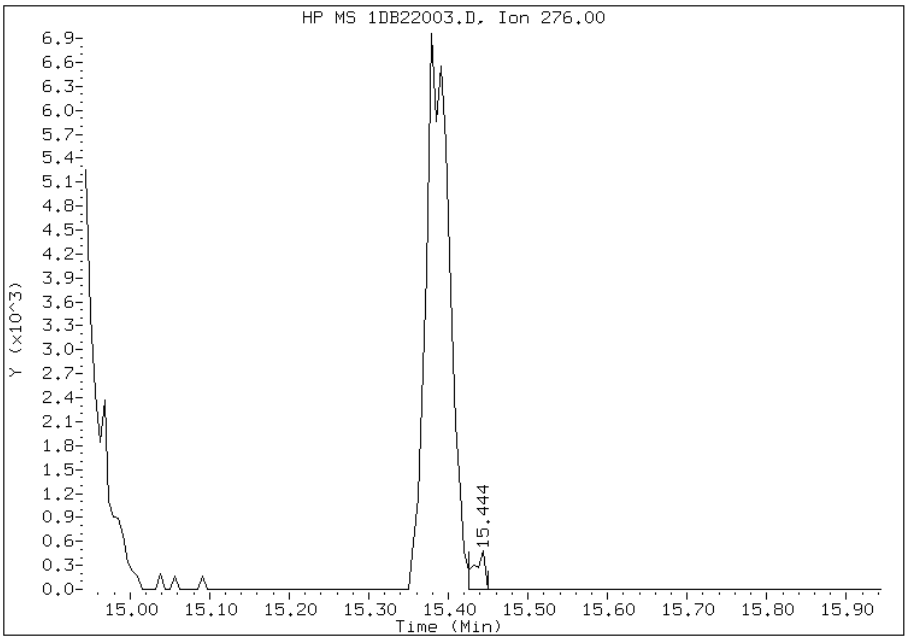
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



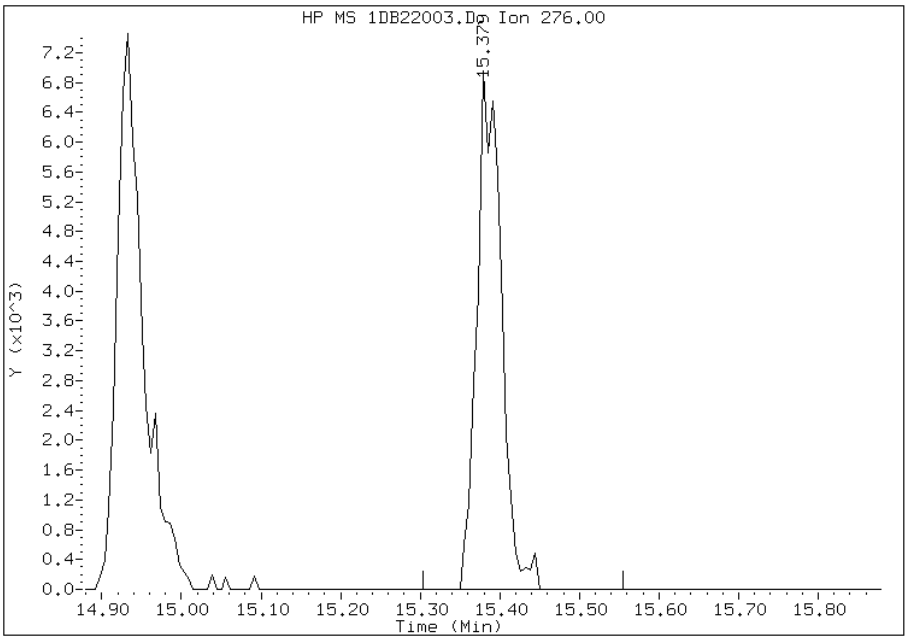
Manual Integration Results

RT: 15.38

Response: 14886

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
*	6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
*	9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
$	13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
*	17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
*	22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
	2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
	3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
	4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
	5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
	7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
	8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
	10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
	11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
	12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
	14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
	15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
	16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
	18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
	19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
	20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
	21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
	23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
	24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
	25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

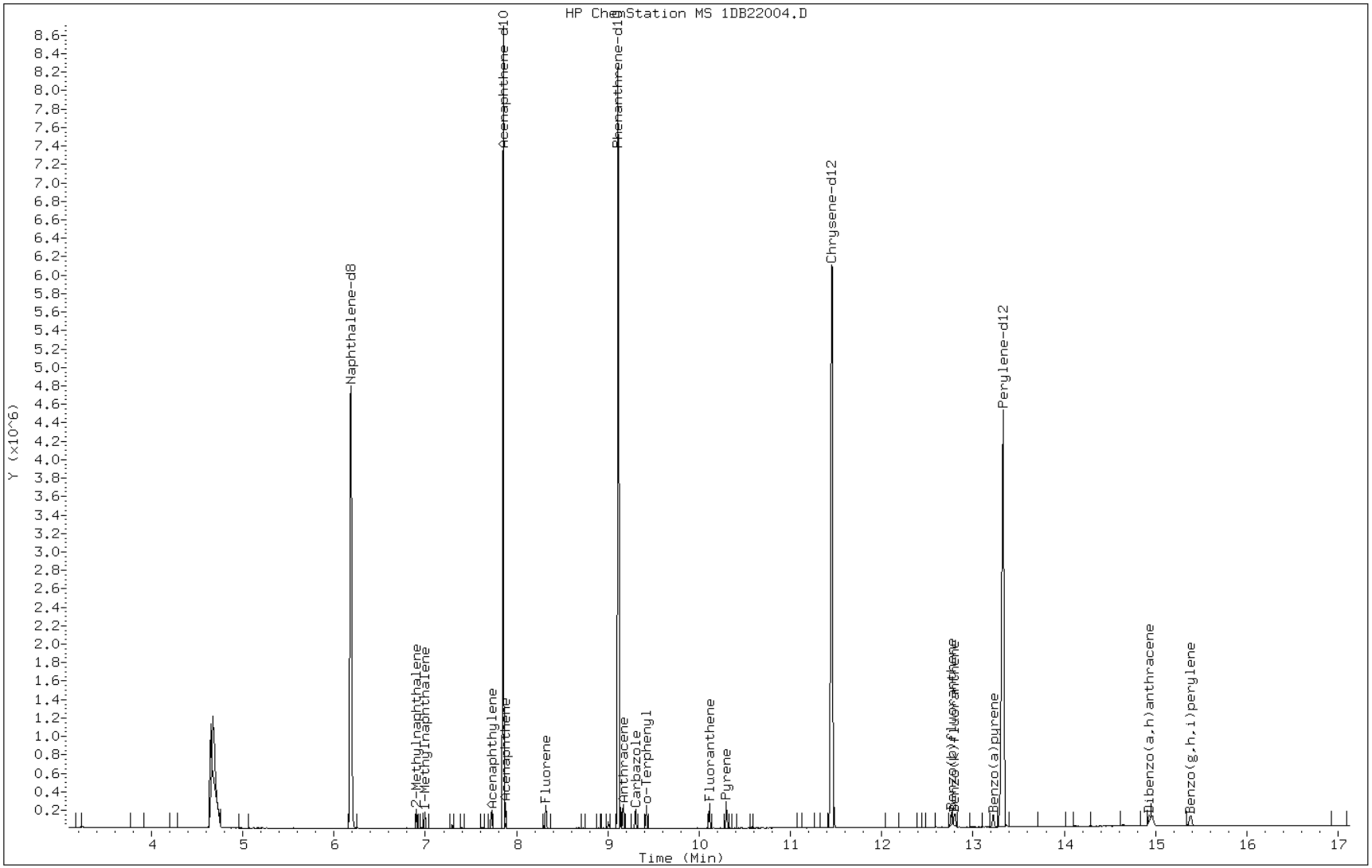
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

Date: 22-FEB-2013 12:35

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

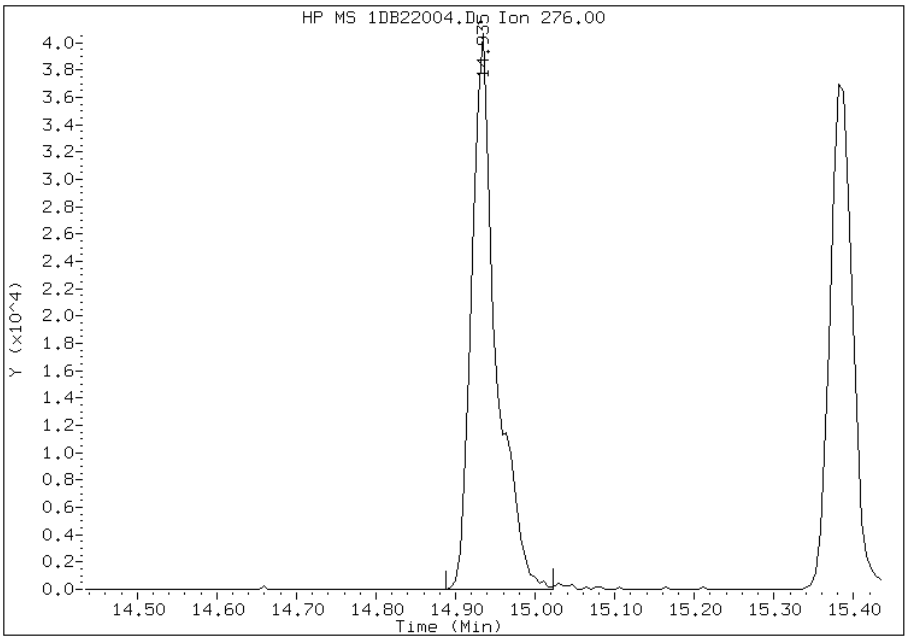
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



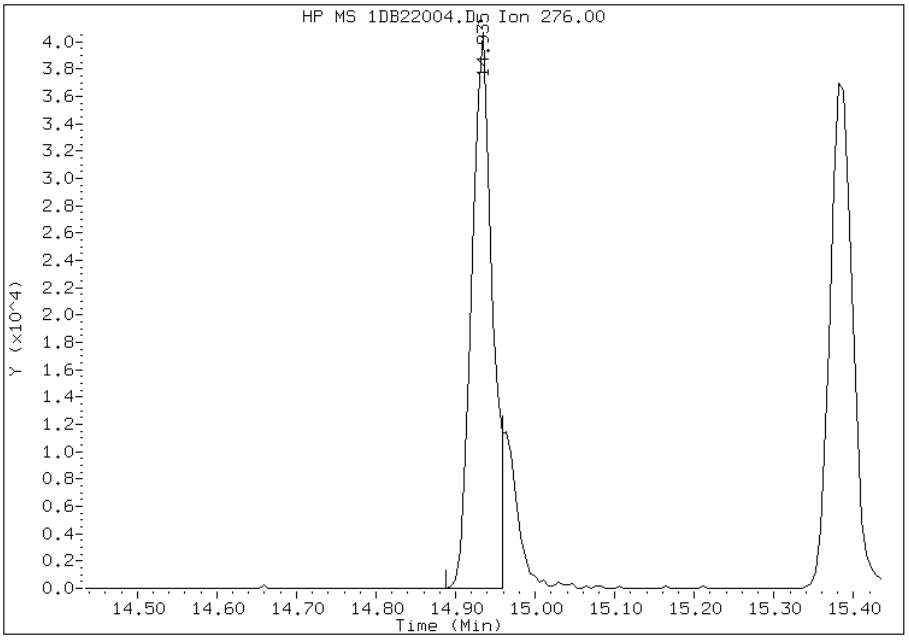
Manual Integration Results

RT: 14.93

Response: 73004

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
*	6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
*	9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
$	13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
*	17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
*	22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
	2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
	3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
	4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
	5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
	7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
	8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
	10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
	11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
	12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
	14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
	15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
	16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
	18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
	19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
	20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
	21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
	23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
	24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
	25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

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

Data File: 1DB22005.D

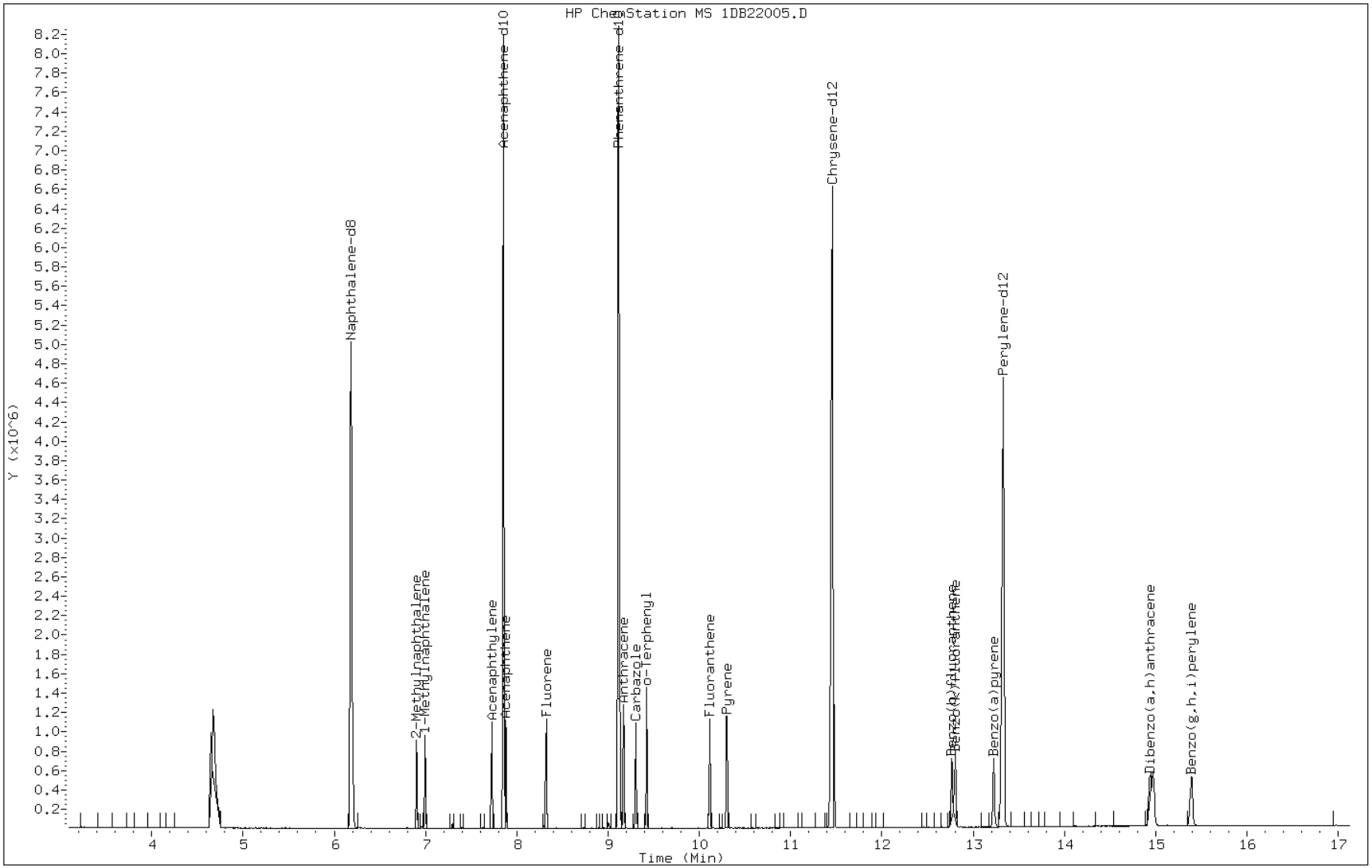
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC



Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

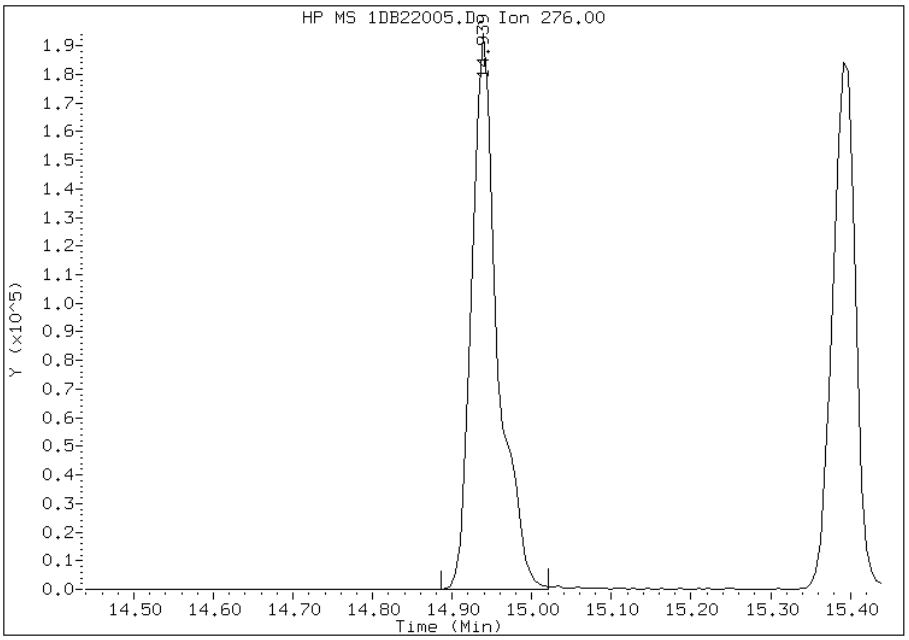
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



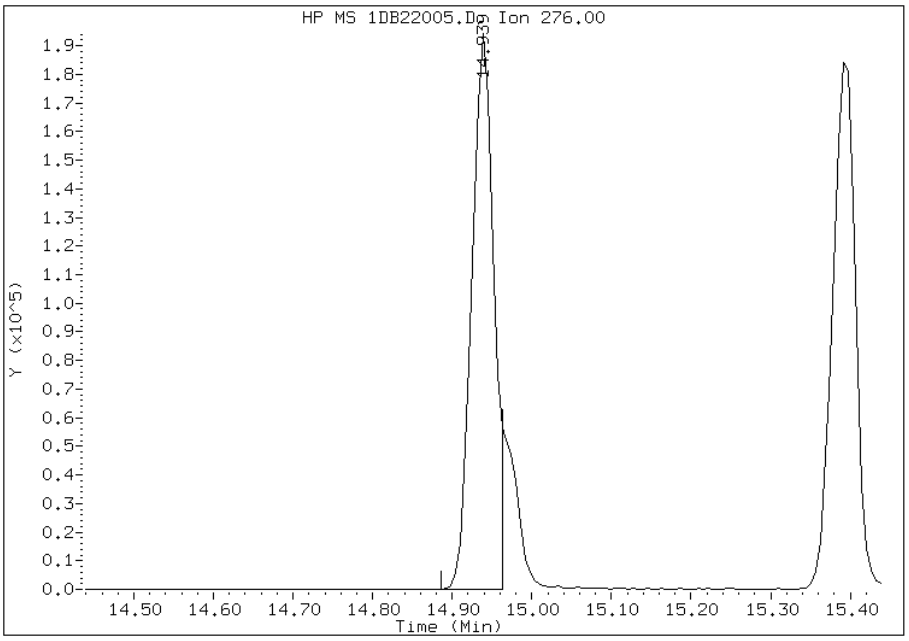
Manual Integration Results

RT: 14.94

Response: 372428

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
*	6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
$	13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
*	17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
*	22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
	2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
	4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
	5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
	7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
	8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
	10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
	11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
	12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
	14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
	15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
	16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
	18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
	19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
	20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
	21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
	23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
	24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
	25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

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

Data File: 1DB22006.D

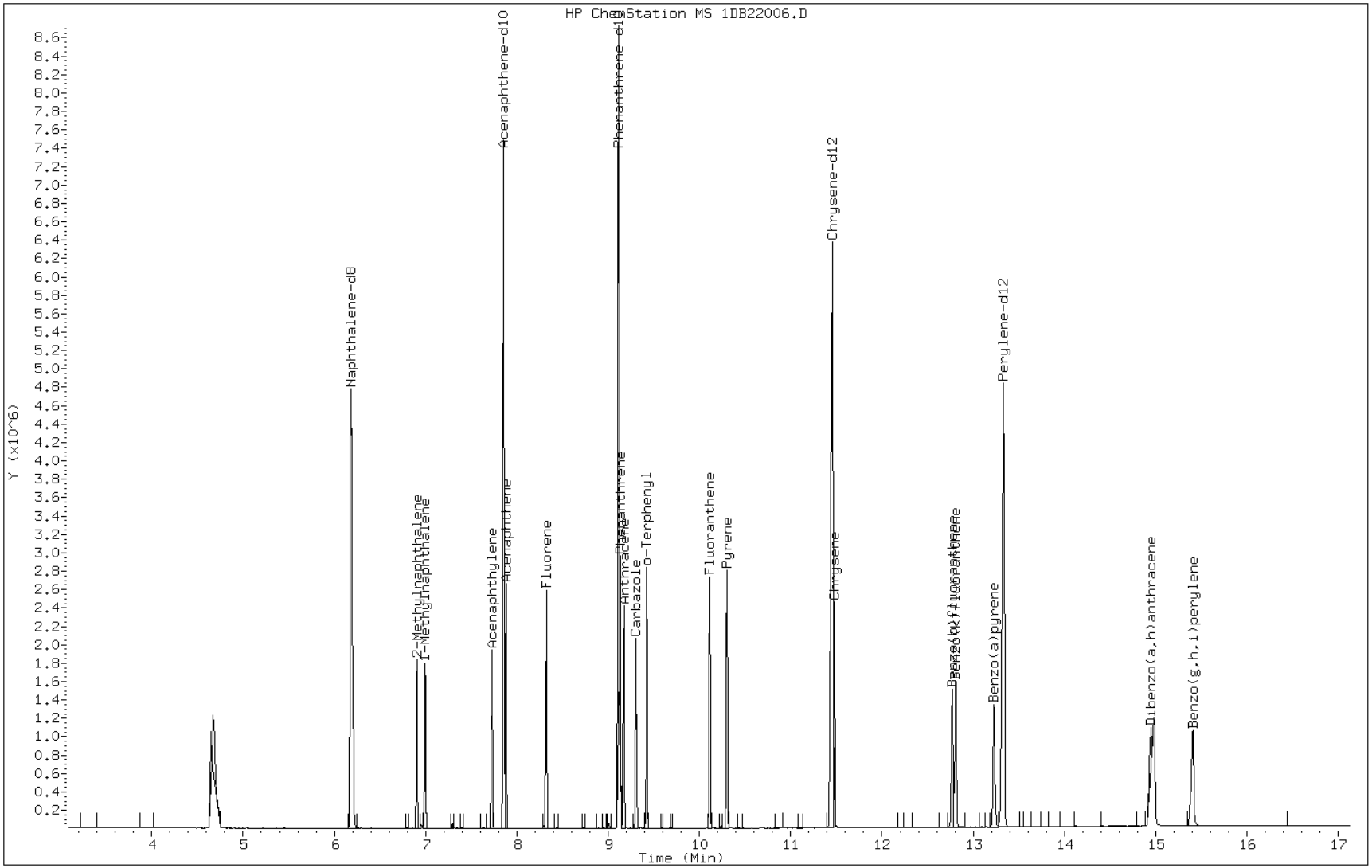
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

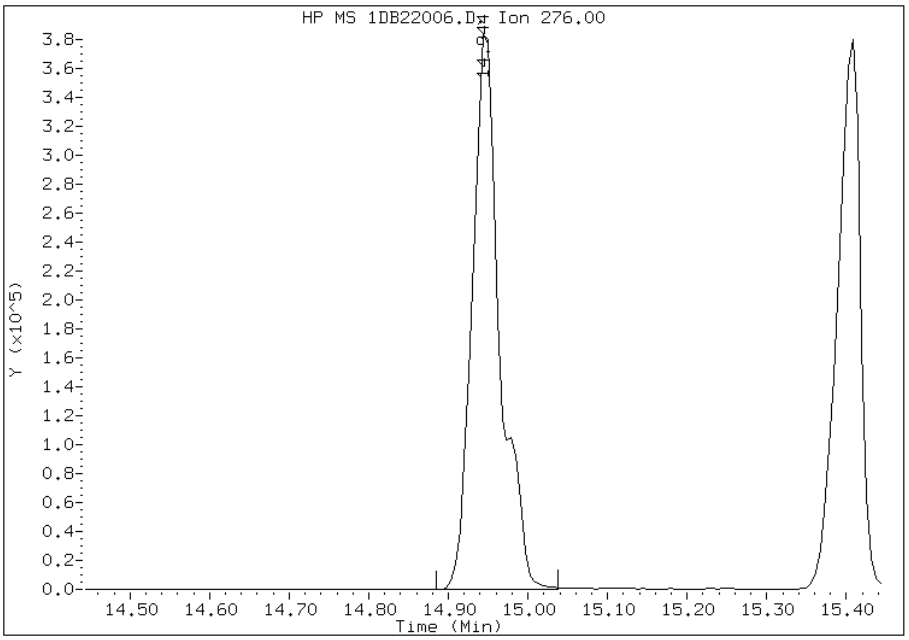
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



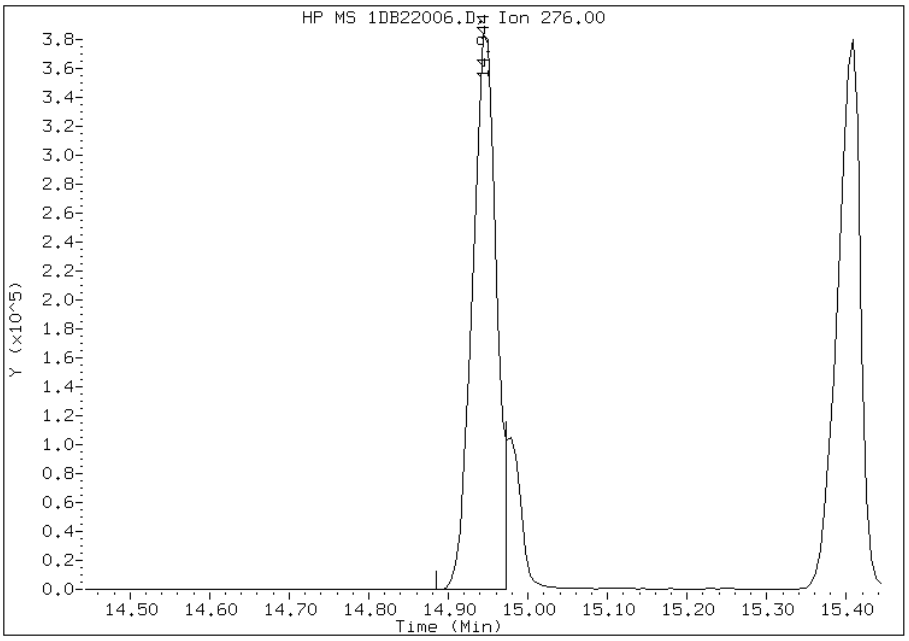
Manual Integration Results

RT: 14.94

Response: 814504

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

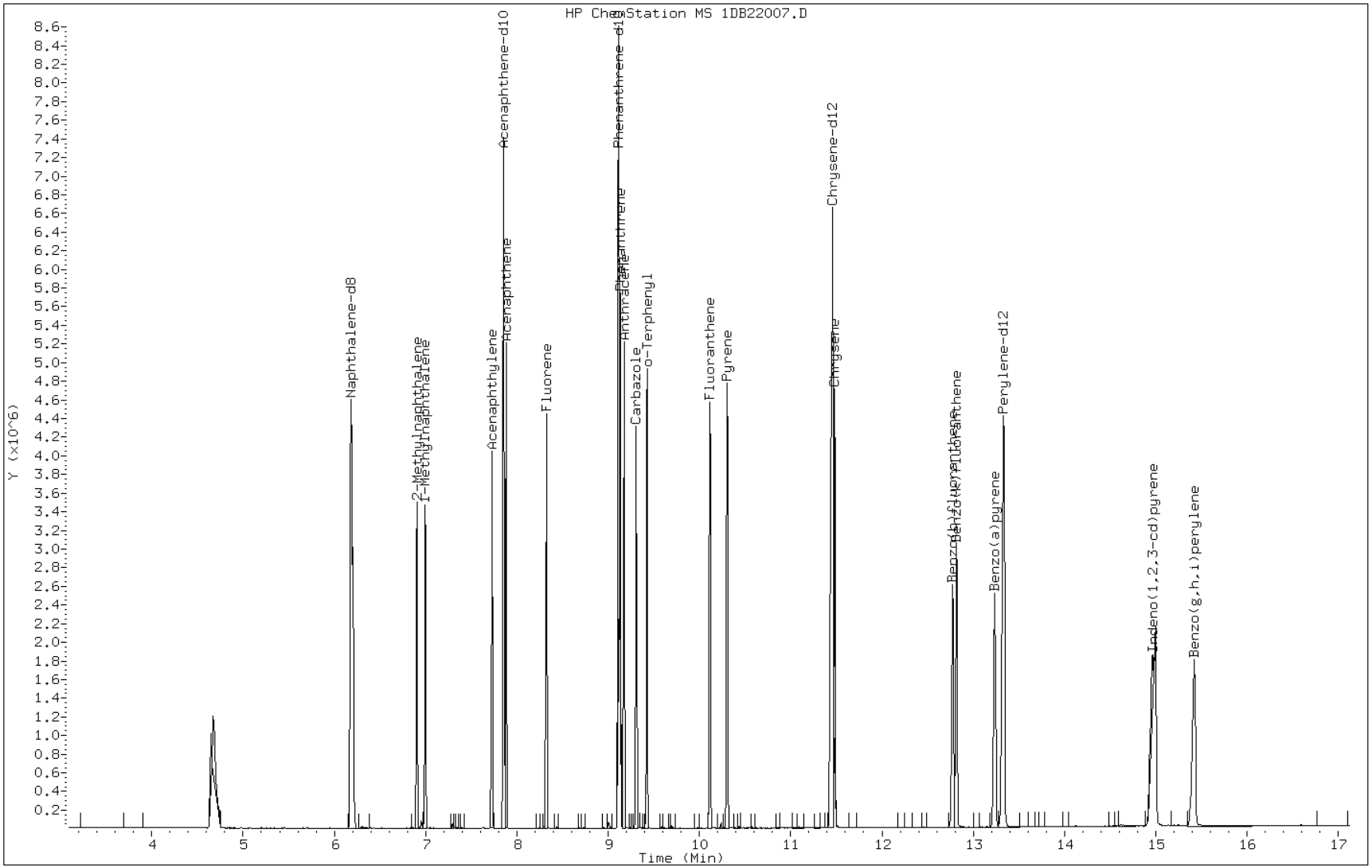
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6	Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9	Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13	o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17	Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22	Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2	Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3	2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4	1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5	Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7	Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8	Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10	Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11	Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12	Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14	Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15	Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16	Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18	Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19	Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20	Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21	Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23	Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24	Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25	Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

Date: 22-FEB-2013 13:43

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1512372 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
*	6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
*	9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
$	13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
*	17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
*	22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
	2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
	3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
	4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
	5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
	7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
	8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
	10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
	11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
	12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
	14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
	15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
	16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
	18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
	19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
	20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
	21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
	23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
	24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
	25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

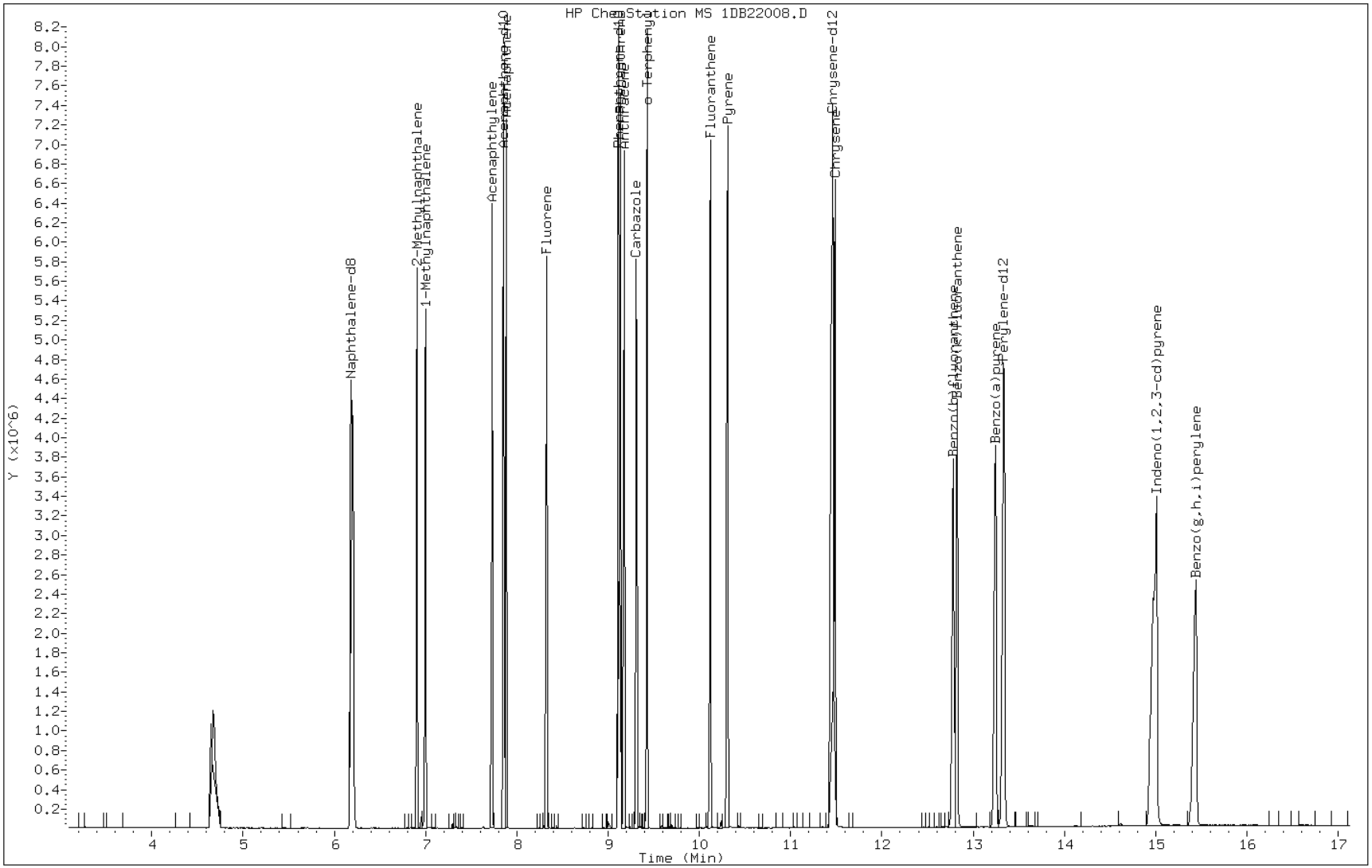
H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

Date: 22-FEB-2013 14:06

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512373 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

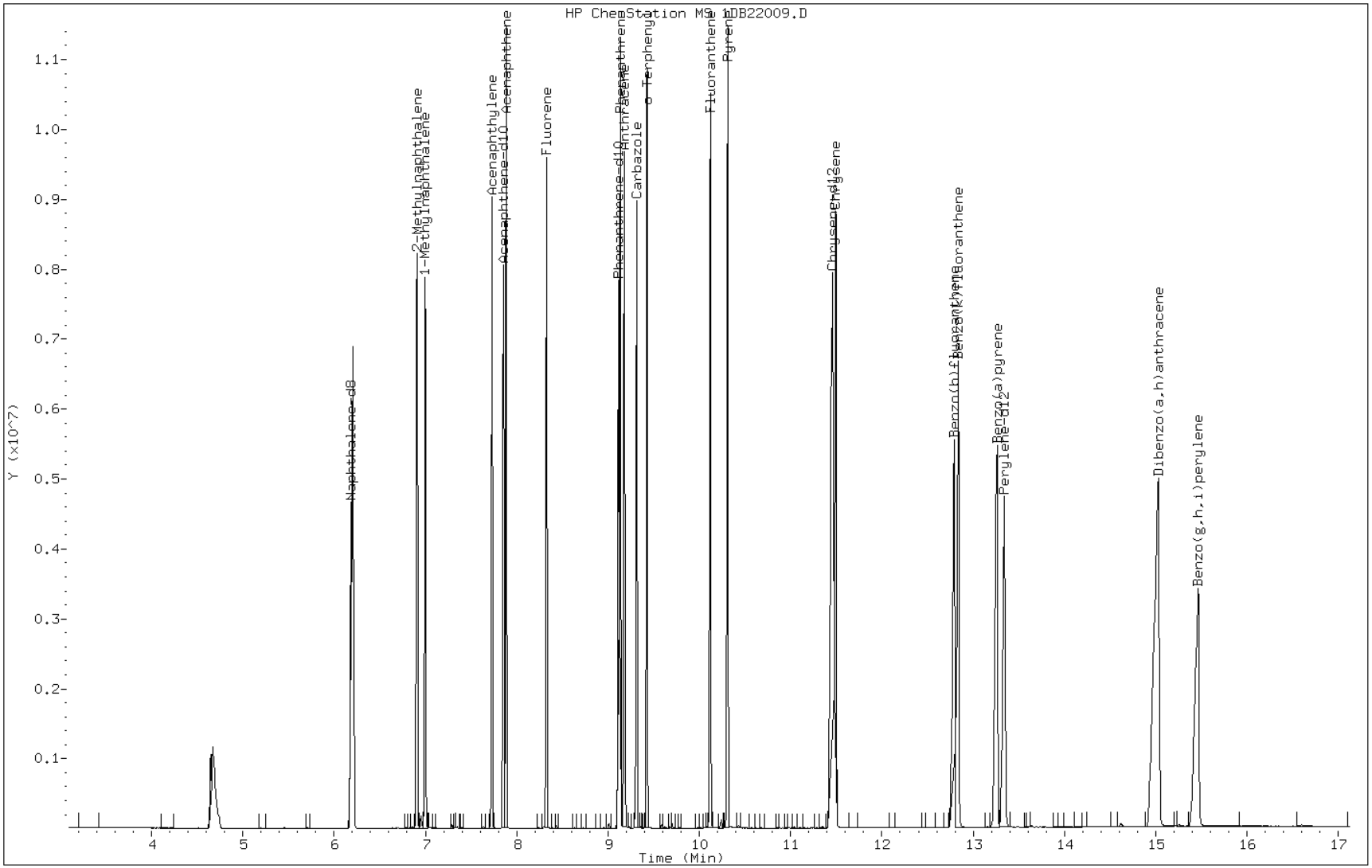
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

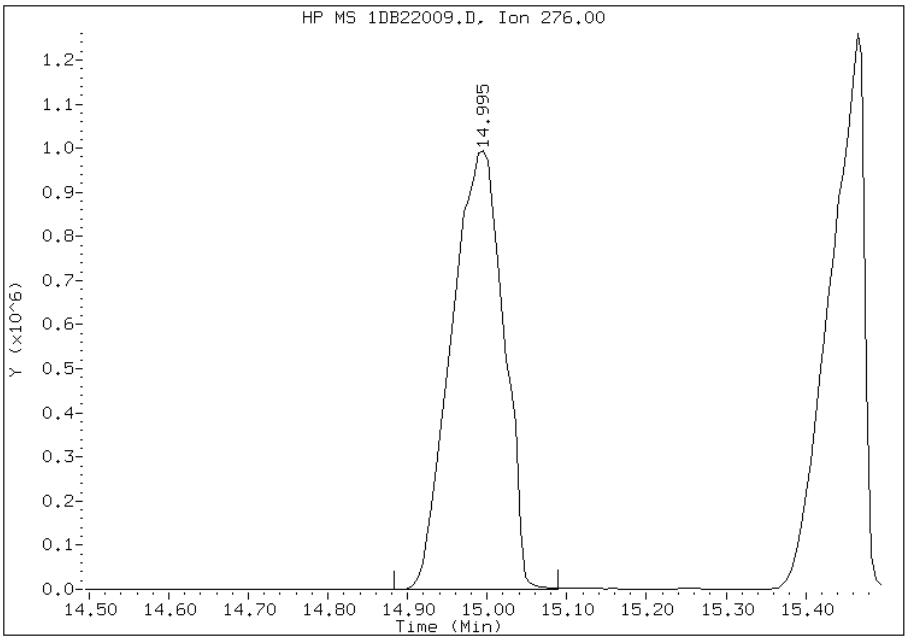
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



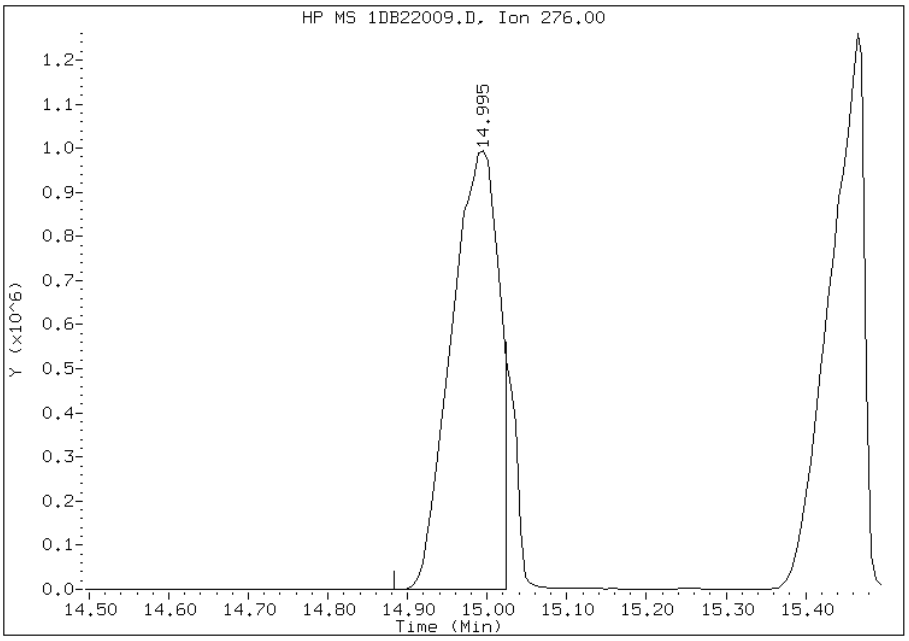
Manual Integration Results

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.: 680-88067-1

SDG No.: 68088067-1

Lab Sample ID: ICV 660-134771/10 Calibration Date: 02/22/2013 12:48

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	1.041	0.0000	21600	20000	8.0	35.0
2-Methylnaphthalene	Ave	0.4976	0.6073	0.0000	24400	20000	22.1	35.0
1-Methylnaphthalene	Ave	0.5541	0.6133	0.0000	22100	20000	10.7	35.0
Acenaphthylene	Ave	1.494	1.591	0.0000	21300	20000	6.5	35.0
Acenaphthene	Ave	0.8630	0.9140	0.0000	21200	20000	5.9	35.0
Fluorene	Ave	1.089	1.173	0.0000	21500	20000	7.7	35.0
Phenanthrene	Ave	0.9943	1.047	0.0000	21100	20000	5.3	35.0
Anthracene	Ave	0.9658	1.032	0.0000	21400	20000	6.8	35.0
Carbazole	Ave	0.8526	0.6904	0.0000	16200	20000	-19.0	35.0
Fluoranthene	Ave	0.9941	1.121	0.0000	22600	20000	12.8	35.0
Pyrene	Ave	1.173	1.180	0.0000	20100	20000	0.5	35.0
Benzo[a]anthracene	LinF	1.255	1.249	0.0000	20900	20000	4.6	35.0
Chrysene	Ave	1.068	1.082	0.0000	20300	20000	1.3	35.0
Benzo[b]fluoranthene	Ave	1.014	1.214	0.0000	23900	20000	19.7	35.0
Benzo[k]fluoranthene	Ave	1.020	0.9836	0.0000	19300	20000	-3.6	35.0
Benzo[a]pyrene	Ave	0.9286	0.9134	0.0000	19700	20000	-1.6	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.8998	0.0000	22600	20000	12.9	35.0
Dibenz(a,h)anthracene	Ave	0.8302	0.9949	0.0000	24000	20000	19.8	35.0
Benzo[g,h,i]perylene	Ave	0.8473	0.9097	0.0000	21500	20000	7.4	35.0
o-Terphenyl	Ave	0.5820	0.5933	0.0000	20400	20000	1.9	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 12:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	2.399	2.397	(1.000)	1470215	40.0000	
*	6 Acenaphthene-d10	164	3.420	3.417	(1.000)	948405	40.0000	
*	10 Phenanthrene-d10	188	4.360	4.352	(1.000)	1446139	40.0000	
$	14 o-Terphenyl	230	4.632	4.635	(1.062)	428980	20.3860	20.3860
*	18 Chrysene-d12	240	6.374	6.366	(1.000)	1373239	40.0000	
*	23 Perylene-d12	264	7.464	7.456	(1.000)	1363331	40.0000	
	2 Naphthalene	128	2.405	2.402	(1.002)	765124	21.5974	21.5973
	3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	446439	24.4108	24.4108
	4 1-Methylnaphthalene	142	2.864	2.861	(1.194)	450855	22.1381	22.1381
	5 Acenaphthylene	152	3.334	3.332	(0.975)	754514	21.3067	21.3066
	7 Acenaphthene	154	3.441	3.433	(1.006)	433440	21.1828	21.1827
	9 Fluorene	166	3.751	3.743	(1.097)	556408	21.5449	21.5448
	11 Phenanthrene	178	4.376	4.368	(1.004)	756904	21.0566	21.0566
	12 Anthracene	178	4.408	4.400	(1.011)	745923	21.3632	21.3632
	13 Carbazole	167	4.552	4.555	(1.044)	499181	16.1953	16.1952(M)
	15 Fluoranthene	202	5.231	5.228	(1.200)	810723	22.5570	22.5570
	16 Pyrene	202	5.396	5.394	(0.847)	809912	20.1075	20.1075

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.363	6.355	(0.998)	857818	20.9204	20.9204
19 Chrysene	228	6.390	6.387	(1.002)	742781	20.2547	20.2547
20 Benzo(b)fluoranthene	252	7.186	7.178	(0.963)	827441	23.9419	23.9419
21 Benzo(k)fluoranthene	252	7.207	7.199	(0.966)	670501	19.2840	19.2839
22 Benzo(a)pyrene	252	7.410	7.408	(0.993)	622627	19.6723	19.6722
24 Indeno(1,2,3-cd)pyrene	276	8.190	8.177	(1.097)	613332	22.5881	22.5880(M)
25 Dibenzo(a,h)anthracene	278	8.206	8.193	(1.099)	678184	23.9679	23.9678
26 Benzo(g,h,i)perylene	276	8.399	8.385	(1.125)	620086	21.4710	21.4710

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB22010.D

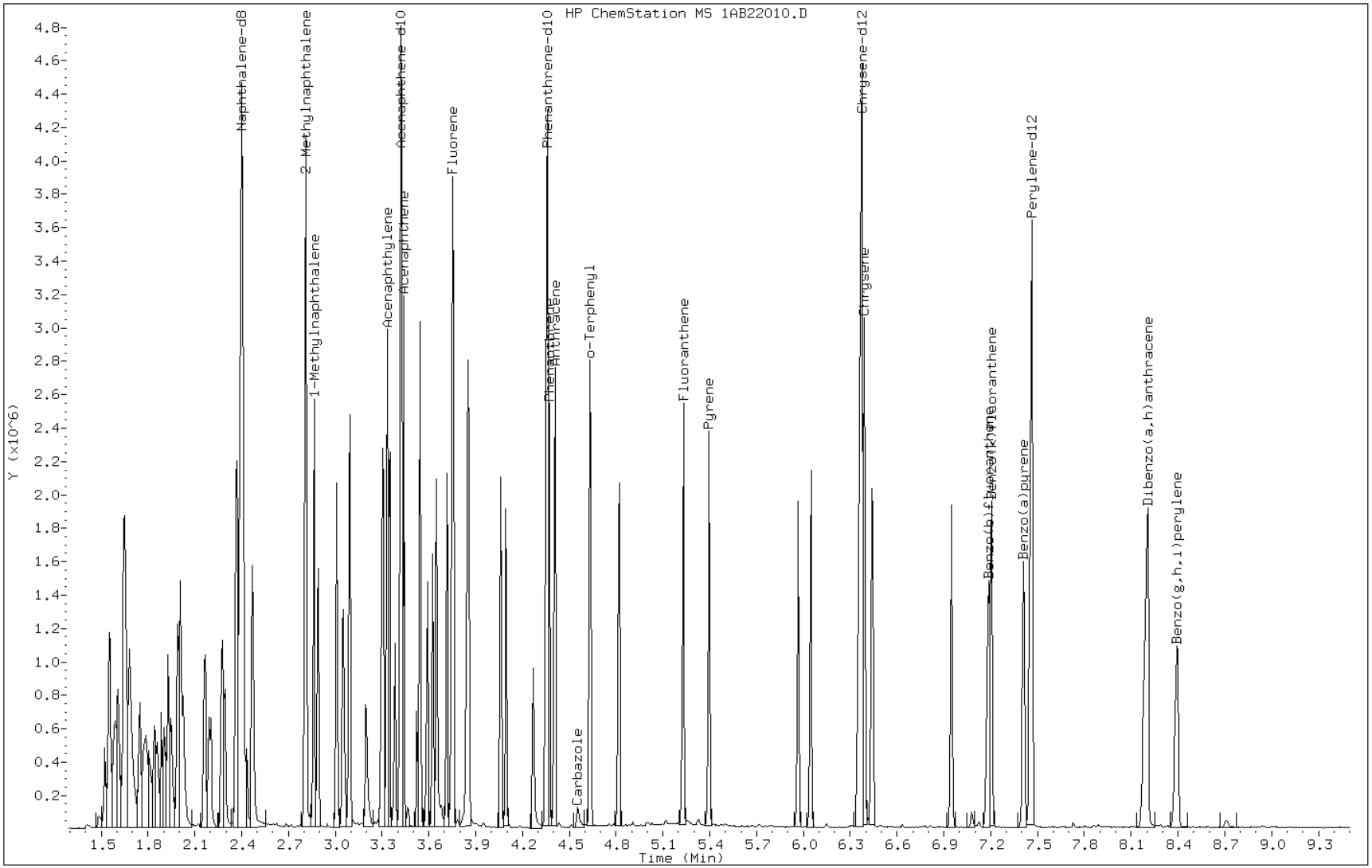
Date: 22-FEB-2013 12:48

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

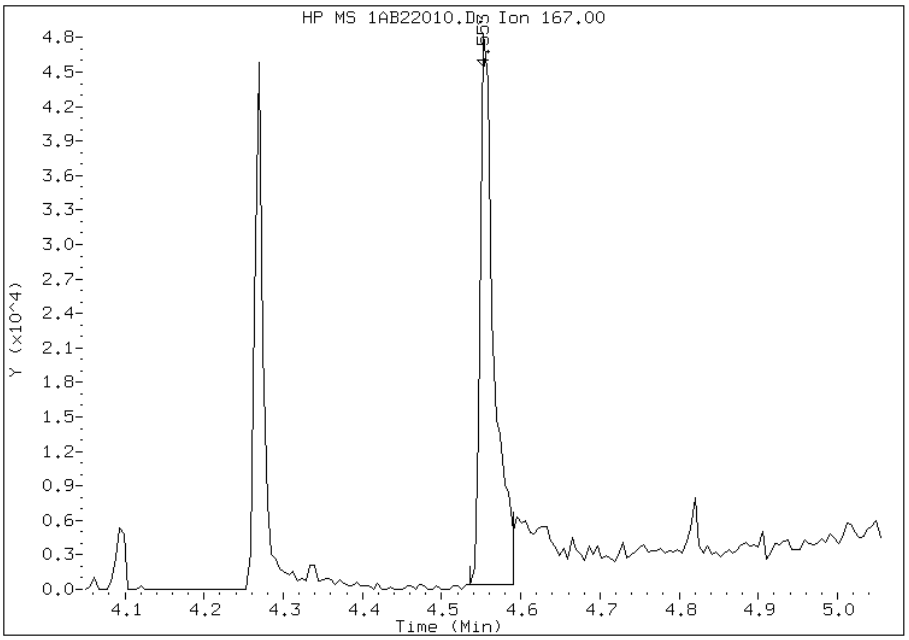
Processing Integration Results

RT: 4.55

Response: 57208

Amount: 2

Conc: 2



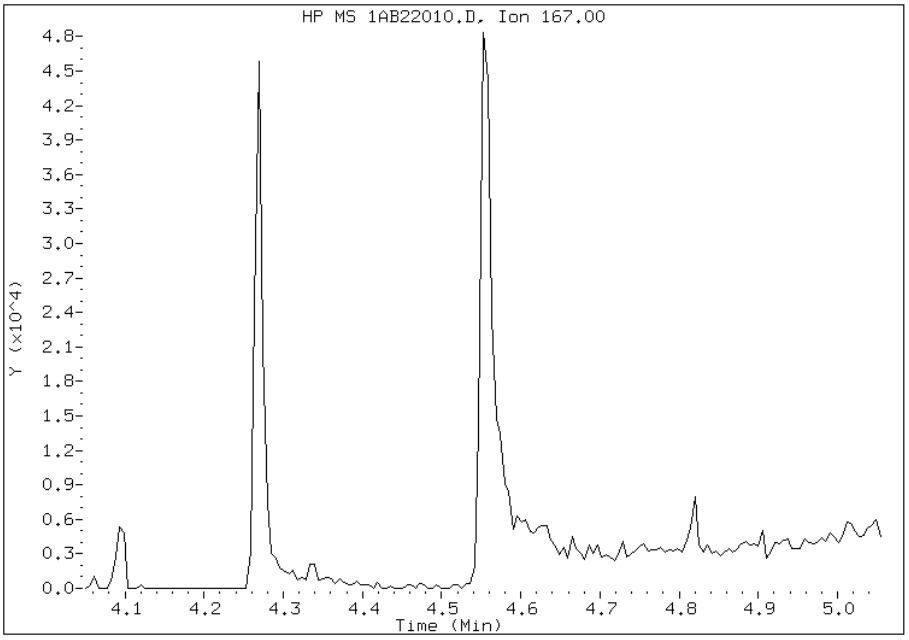
Manual Integration Results

RT: 4.55

Response: 499181

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

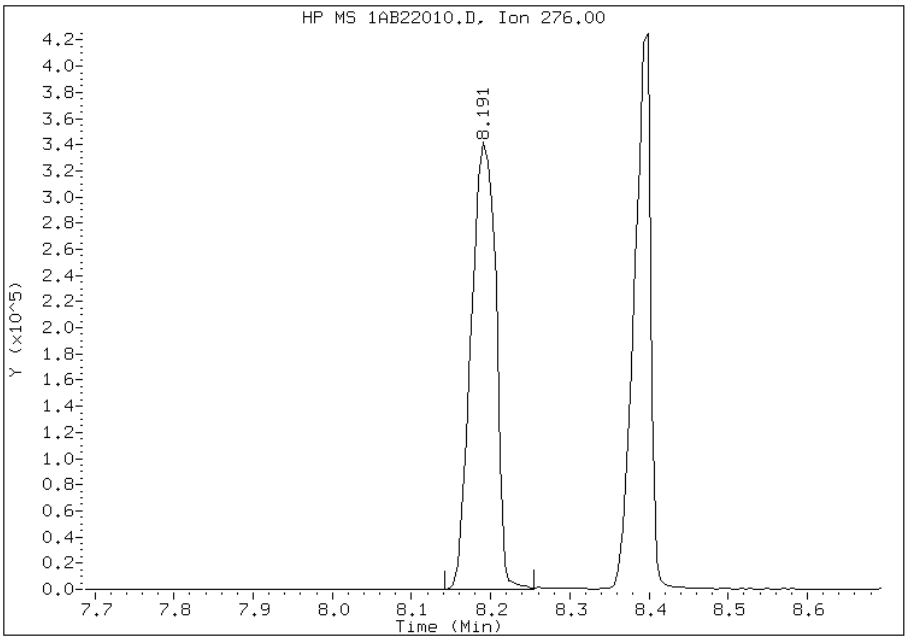
Processing Integration Results

RT: 8.19

Response: 733813

Amount: 27

Conc: 27



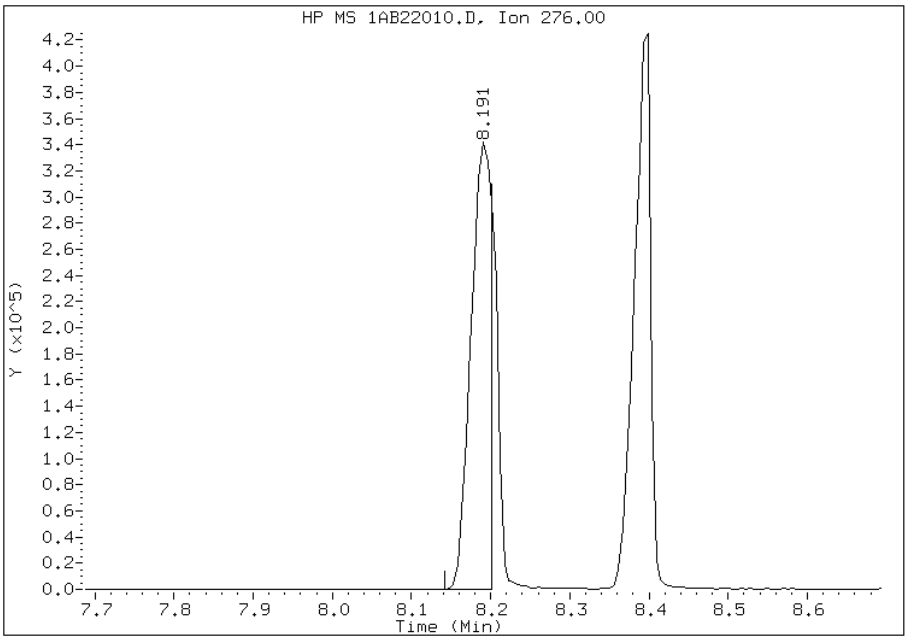
Manual Integration Results

RT: 8.19

Response: 613332

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:02
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Lab Sample ID: CCVIS 660-135452/4 Calibration Date: 03/13/2013 10:56

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AC13004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	0.9450	0.0000	19600	20000	-2.0	20.0
2-Methylnaphthalene	Ave	0.4976	0.4938	0.0000	19800	20000	-0.8	20.0
1-Methylnaphthalene	Ave	0.5541	0.5346	0.0000	19300	20000	-3.5	20.0
Acenaphthylene	Ave	1.494	1.367	0.0000	18300	20000	-8.5	20.0
Acenaphthene	Ave	0.8630	0.8290	0.0000	19200	20000	-3.9	20.0
Fluorene	Ave	1.089	1.027	0.0000	18900	20000	-5.7	20.0
Phenanthrene	Ave	0.9943	1.013	0.0000	20400	20000	1.9	20.0
Anthracene	Ave	0.9658	0.9867	0.0000	20400	20000	2.2	20.0
Carbazole	Ave	0.8526	0.8124	0.0000	19100	20000	-4.7	20.0
Fluoranthene	Ave	0.9941	0.9896	0.0000	19900	20000	-0.5	20.0
Pyrene	Ave	1.173	1.120	0.0000	19100	20000	-4.6	20.0
Benzo[a]anthracene	LinF	1.255	1.084	0.0000	18100	20000	-9.3	20.0
Chrysene	Ave	1.068	0.997	0.0000	18700	20000	-6.7	20.0
Benzo[b]fluoranthene	Ave	1.014	0.9279	0.0000	18300	20000	-8.5	20.0
Benzo[k]fluoranthene	Ave	1.020	1.110	0.0000	21800	20000	8.8	20.0
Benzo[a]pyrene	Ave	0.9286	0.9215	0.0000	19800	20000	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.7469	0.0000	18700	20000	-6.3	20.0
Dibenz(a,h)anthracene	Ave	0.8302	0.8141	0.0000	19600	20000	-1.9	20.0
Benzo[g,h,i]perylene	Ave	0.8473	0.8198	0.0000	19300	20000	-3.3	20.0
o-Terphenyl	Ave	0.5820	0.5457	0.0000	18700	20000	-6.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13004.D
Lab Smp Id: CCVIS-1512372
Inj Date : 13-MAR-2013 10:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	2.306	2.306	(1.000)	532722	40.0000	(H)
* 6 Acenaphthene-d10	164	3.326	3.326	(1.000)	363717	40.0000	(H)
* 10 Phenanthrene-d10	188	4.250	4.250	(1.000)	535450	40.0000	
$ 14 o-Terphenyl	230	4.528	4.528	(1.065)	146084	20.0000	18.7494
* 18 Chrysene-d12	240	6.243	6.243	(1.000)	507118	40.0000	
* 23 Perylene-d12	264	7.327	7.327	(1.000)	494823	40.0000	(H)
2 Naphthalene	128	2.316	2.316	(1.005)	251710	20.0000	19.6087
3 2-Methylnaphthalene	141	2.722	2.722	(1.181)	131524	20.0000	19.8474(H)
4 1-Methylnaphthalene	142	2.776	2.776	(1.204)	142382	20.0000	19.2947
5 Acenaphthylene	152	3.241	3.241	(0.974)	248650	20.0000	18.3091(H)
7 Acenaphthene	154	3.347	3.347	(1.006)	150756	20.0000	19.2113(H)
9 Fluorene	166	3.652	3.652	(1.098)	186815	20.0000	18.8621(H)
11 Phenanthrene	178	4.266	4.266	(1.004)	271225	20.0000	20.3783
12 Anthracene	178	4.298	4.298	(1.011)	264154	20.0000	20.4324
13 Carbazole	167	4.453	4.453	(1.048)	217486	20.0000	19.0569
15 Fluoranthene	202	5.116	5.116	(1.204)	264945	20.0000	19.9093
16 Pyrene	202	5.276	5.276	(0.845)	283944	20.0000	19.0893
17 Benzo(a)anthracene	228	6.232	6.232	(0.998)	274821	20.0000	18.1494
19 Chrysene	228	6.264	6.264	(1.003)	252722	20.0000	18.6614
20 Benzo(b)fluoranthene	252	7.055	7.055	(0.963)	229568	20.0000	18.3014(H)
21 Benzo(k)fluoranthene	252	7.071	7.071	(0.965)	274527	20.0000	21.7537(H)
22 Benzo(a)pyrene	252	7.279	7.279	(0.993)	227978	20.0000	19.8459(H)
24 Indeno(1,2,3-cd)pyrene	276	8.027	8.027	(1.096)	184781	20.0000	18.7496(MH)
25 Dibenzo(a,h)anthracene	278	8.038	8.038	(1.097)	201411	20.0000	19.6117(H)
26 Benzo(g,h,i)perylene	276	8.214	8.214	(1.121)	202817	20.0000	19.3489(H)

QC Flag Legend

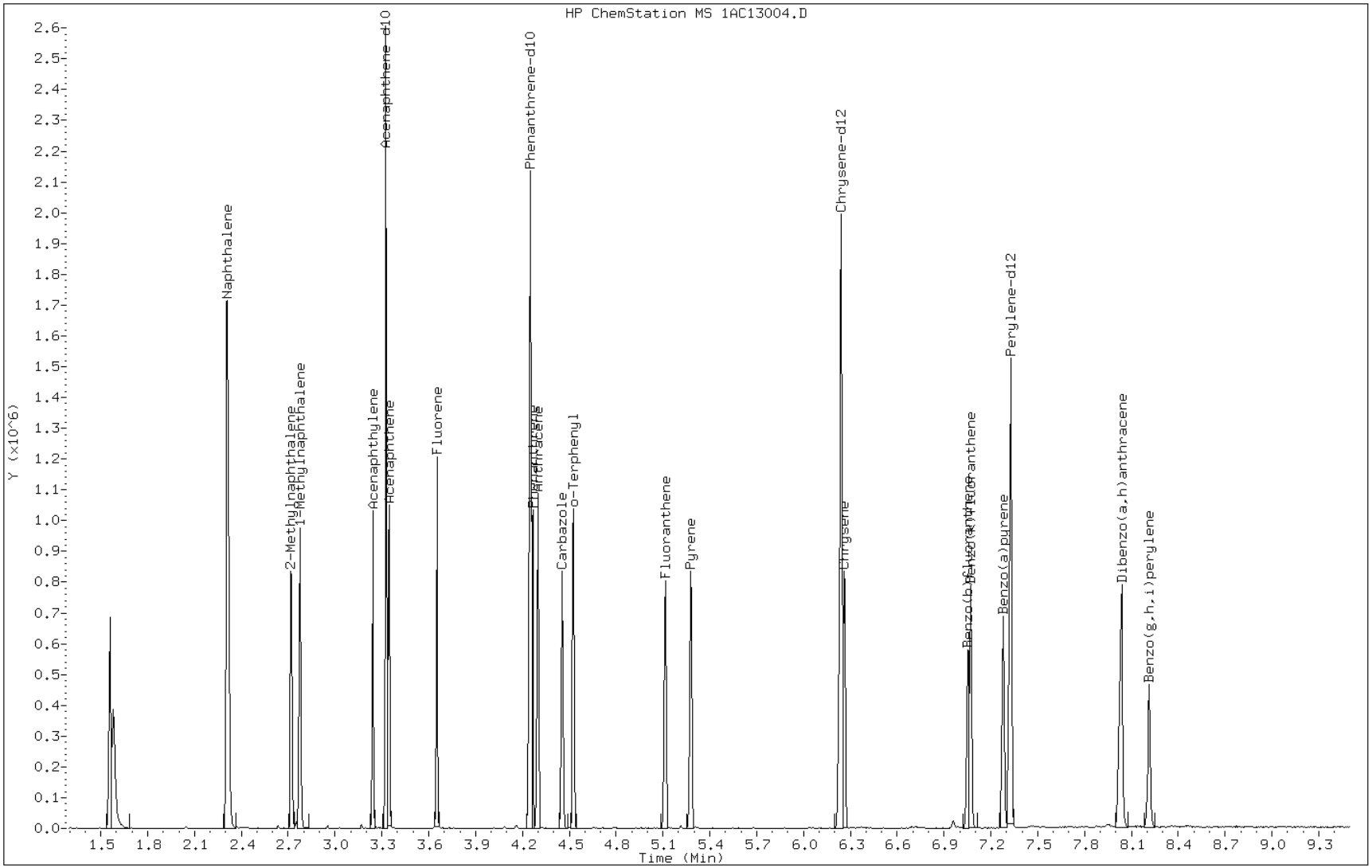
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC13004.D

Date: 13-MAR-2013 10:56

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AC13004.D
Inj. Date and Time: 13-MAR-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

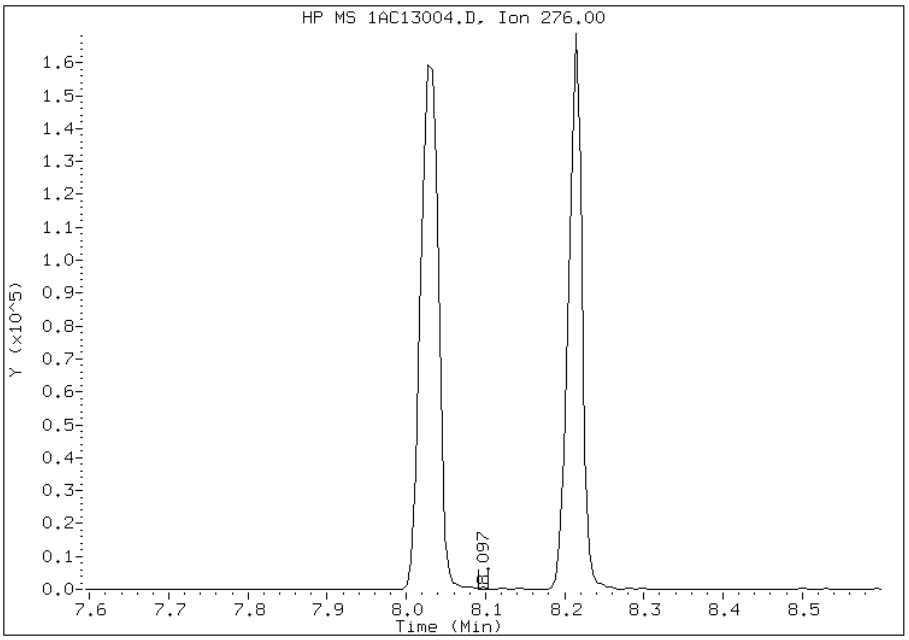
Processing Integration Results

RT: 8.10

Response: 350

Amount: 0

Conc: 0



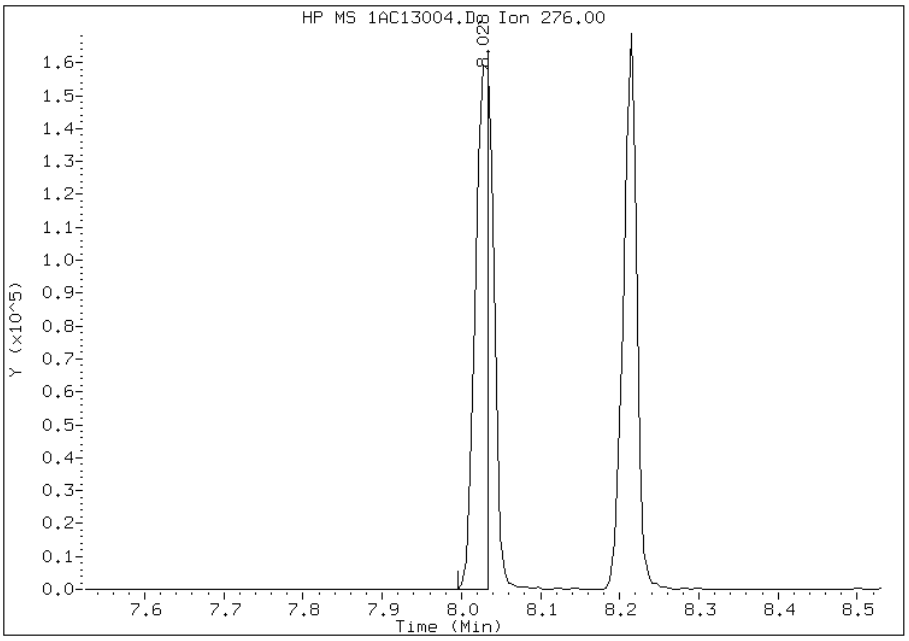
Manual Integration Results

RT: 8.03

Response: 184781

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 13-Mar-2013 11:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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

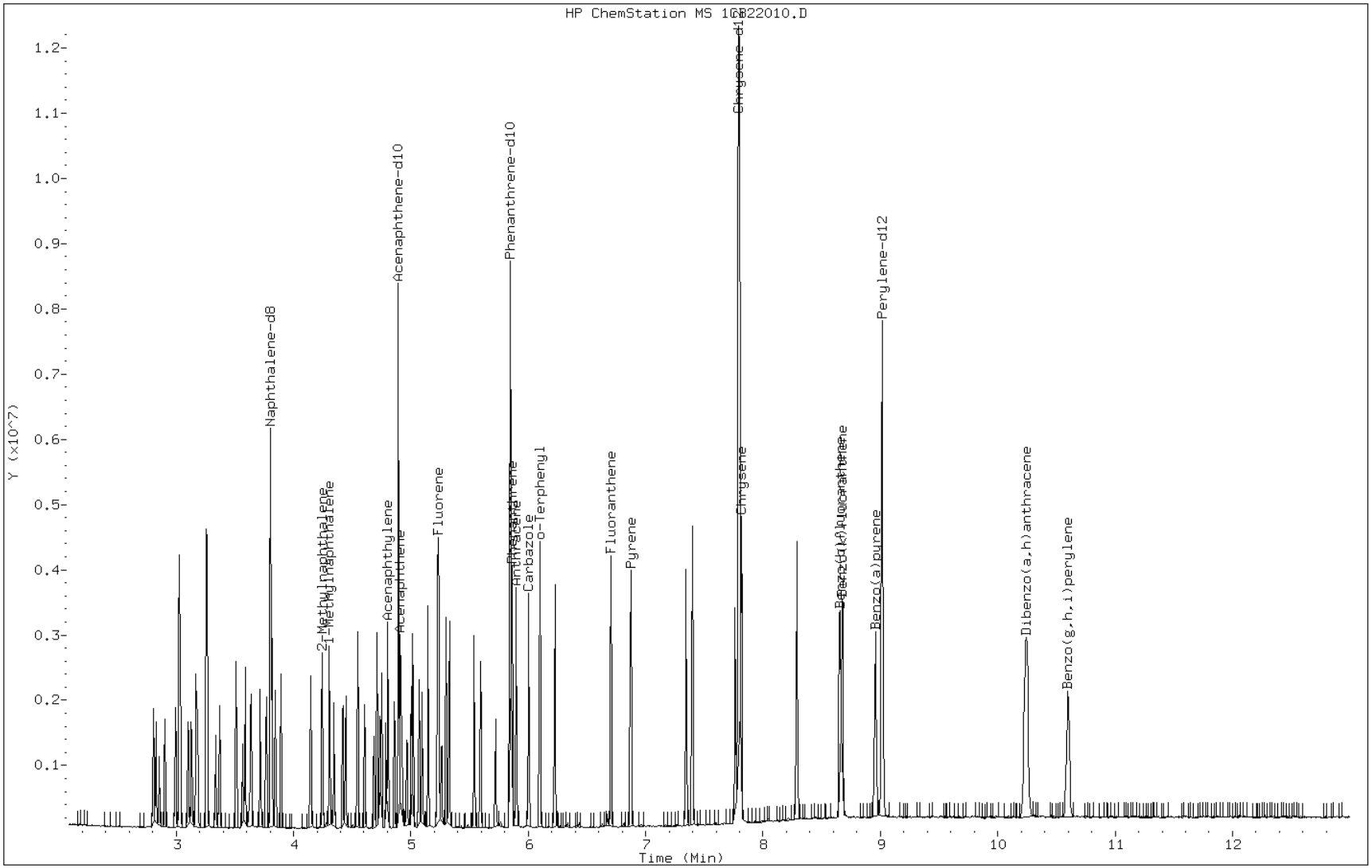
Date: 22-FEB-2013 14:06

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

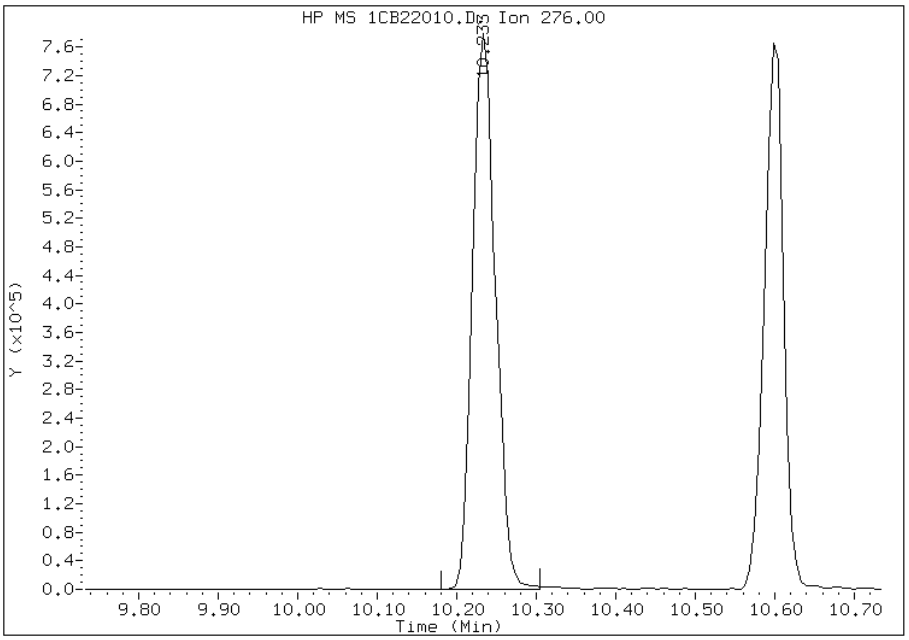
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



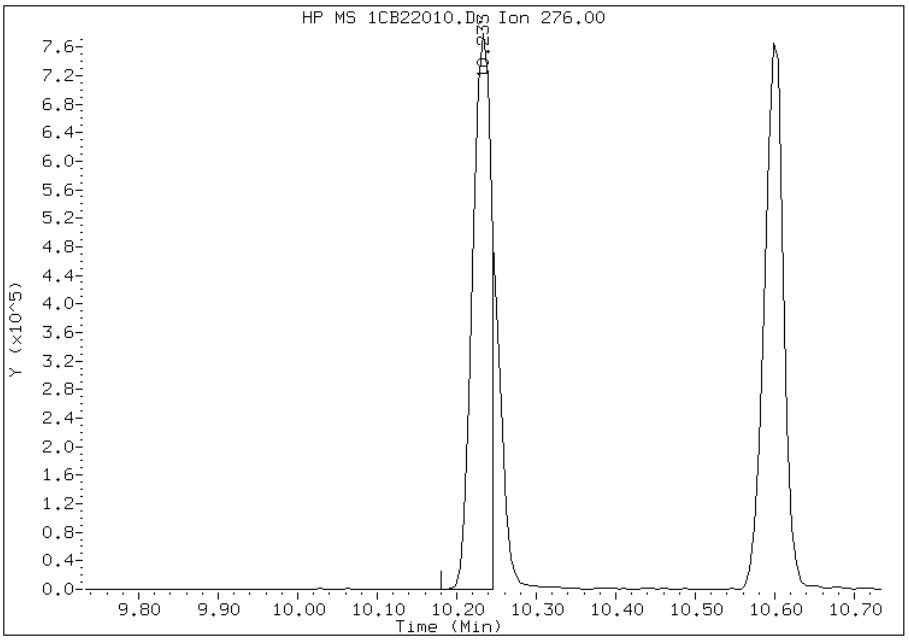
Manual Integration Results

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.: 680-88067-1

SDG No.: 68088067-1

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

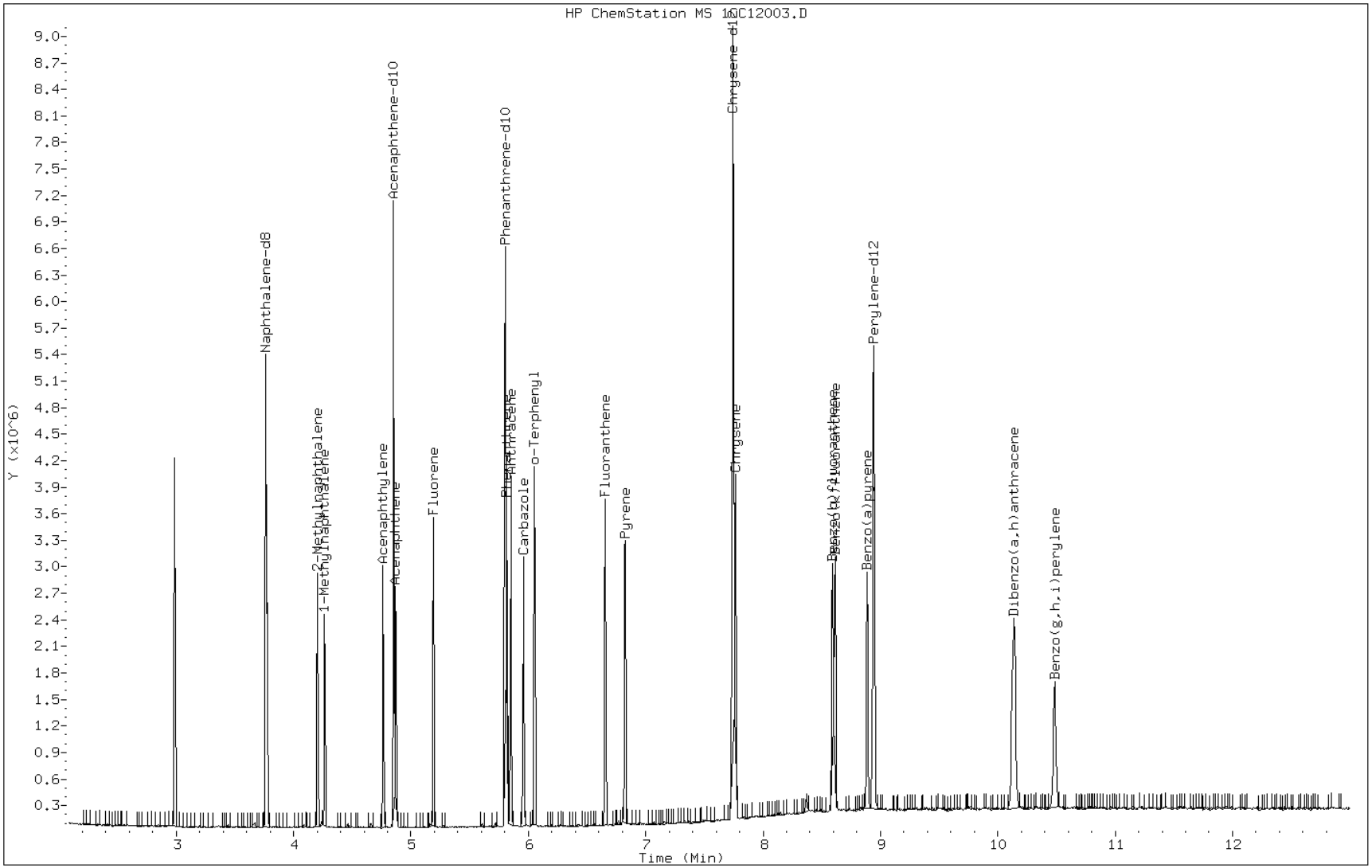
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

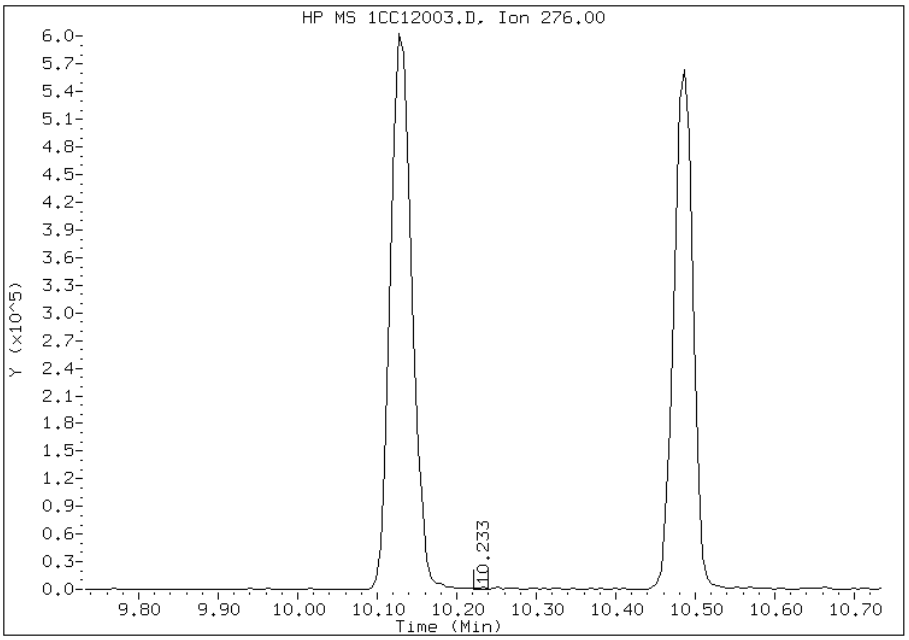
Processing Integration Results

RT: 10.23

Response: 1563

Amount: 0

Conc: 0



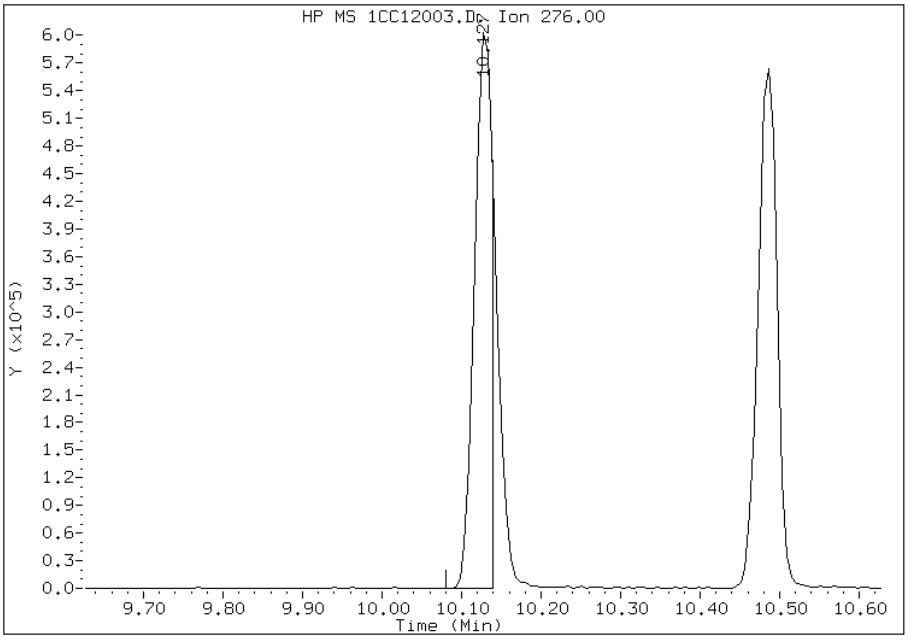
Manual Integration Results

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.: 680-88067-1

SDG No.: 68088067-1

Lab Sample ID: CCVIS 660-135453/3 Calibration Date: 03/14/2013 11:35

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: 1CC14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.088	0.0000	20900	20000	4.5	20.0
2-Methylnaphthalene	Ave	0.6946	0.7260	0.0000	20900	20000	4.5	20.0
1-Methylnaphthalene	Ave	0.6326	0.6773	0.0000	21400	20000	7.1	20.0
Acenaphthylene	Ave	1.613	1.627	0.0000	20200	20000	0.9	20.0
Acenaphthene	Ave	1.002	0.9518	0.0000	19000	20000	-5.0	20.0
Fluorene	Ave	1.268	1.289	0.0000	20300	20000	1.7	20.0
Phenanthrene	Ave	1.157	1.083	0.0000	18700	20000	-6.4	20.0
Anthracene	Ave	1.131	1.118	0.0000	19800	20000	-1.1	20.0
Carbazole	Ave	1.006	0.9628	0.0000	19100	20000	-4.3	20.0
Fluoranthene	Ave	1.267	1.278	0.0000	20200	20000	0.9	20.0
Pyrene	Ave	1.075	1.087	0.0000	20200	20000	1.1	20.0
Benzo[a]anthracene	Ave	1.154	1.059	0.0000	18300	20000	-8.3	20.0
Chrysene	Ave	1.155	1.046	0.0000	18100	20000	-9.5	20.0
Benzo[b]fluoranthene	Ave	1.045	1.047	0.0000	20000	20000	0.2	20.0
Benzo[k]fluoranthene	Ave	1.072	1.101	0.0000	20500	20000	2.7	20.0
Benzo[a]pyrene	Ave	1.015	1.018	0.0000	20100	20000	0.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9691	0.0000	20300	20000	1.5	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8714	0.0000	18700	20000	-6.7	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9355	0.0000	18700	20000	-6.4	20.0
o-Terphenyl	Ave	0.6039	0.5906	0.0000	19600	20000	-2.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 14-MAR-2013 11:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.751	3.751	(1.000)	916985	40.0000	(H)
*	6 Acenaphthene-d10	164	4.839	4.839	(1.000)	747114	40.0000	(H)
*	10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1456984	40.0000	(H)
$	14 o-Terphenyl	230	6.039	6.039	(1.044)	430233	20.0000	19.5578(H)
*	18 Chrysene-d12	240	7.733	7.733	(1.000)	1842127	40.0000	(H)
*	23 Perylene-d12	264	8.927	8.927	(1.000)	1864332	40.0000	(H)
	2 Naphthalene	128	3.768	3.768	(1.005)	499061	20.0000	20.9051(H)
	3 2-Methylnaphthalene	142	4.192	4.192	(1.118)	332883	20.0000	20.9044(H)
	4 1-Methylnaphthalene	142	4.257	4.257	(1.135)	310550	20.0000	21.4127(H)
	5 Acenaphthylene	152	4.751	4.751	(0.982)	607895	20.0000	20.1815(H)
	7 Acenaphthene	154	4.857	4.857	(1.004)	355559	20.0000	18.9914(H)
	9 Fluorene	166	5.180	5.180	(1.070)	481421	20.0000	20.3324(H)
	11 Phenanthrene	178	5.804	5.804	(1.003)	788729	20.0000	18.7215(H)
	12 Anthracene	178	5.839	5.839	(1.009)	814620	20.0000	19.7711(H)
	13 Carbazole	167	5.945	5.945	(1.027)	701368	20.0000	19.1494(H)
	15 Fluoranthene	202	6.639	6.639	(1.147)	930792	20.0000	20.1745(H)
	16 Pyrene	202	6.809	6.809	(0.881)	1000803	20.0000	20.2163(H)
	17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	975022	20.0000	18.3387(H)
	19 Chrysene	228	7.751	7.751	(1.002)	963220	20.0000	18.1031(H)
	20 Benzo(b)fluoranthene	252	8.574	8.574	(0.960)	976202	20.0000	20.0361(H)
	21 Benzo(k)fluoranthene	252	8.598	8.598	(0.963)	1026727	20.0000	20.5422(H)
	22 Benzo(a)pyrene	252	8.868	8.868	(0.993)	949241	20.0000	20.0579(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.131)	903400	20.0000	20.2922(MH)
	25 Dibenzo(a,h)anthracene	278	10.121	10.121	(1.134)	812326	20.0000	18.6543(H)
	26 Benzo(g,h,i)perylene	276	10.456	10.456	(1.171)	872018	20.0000	18.7244(H)

QC Flag Legend

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

Data File: 1CC14003.D

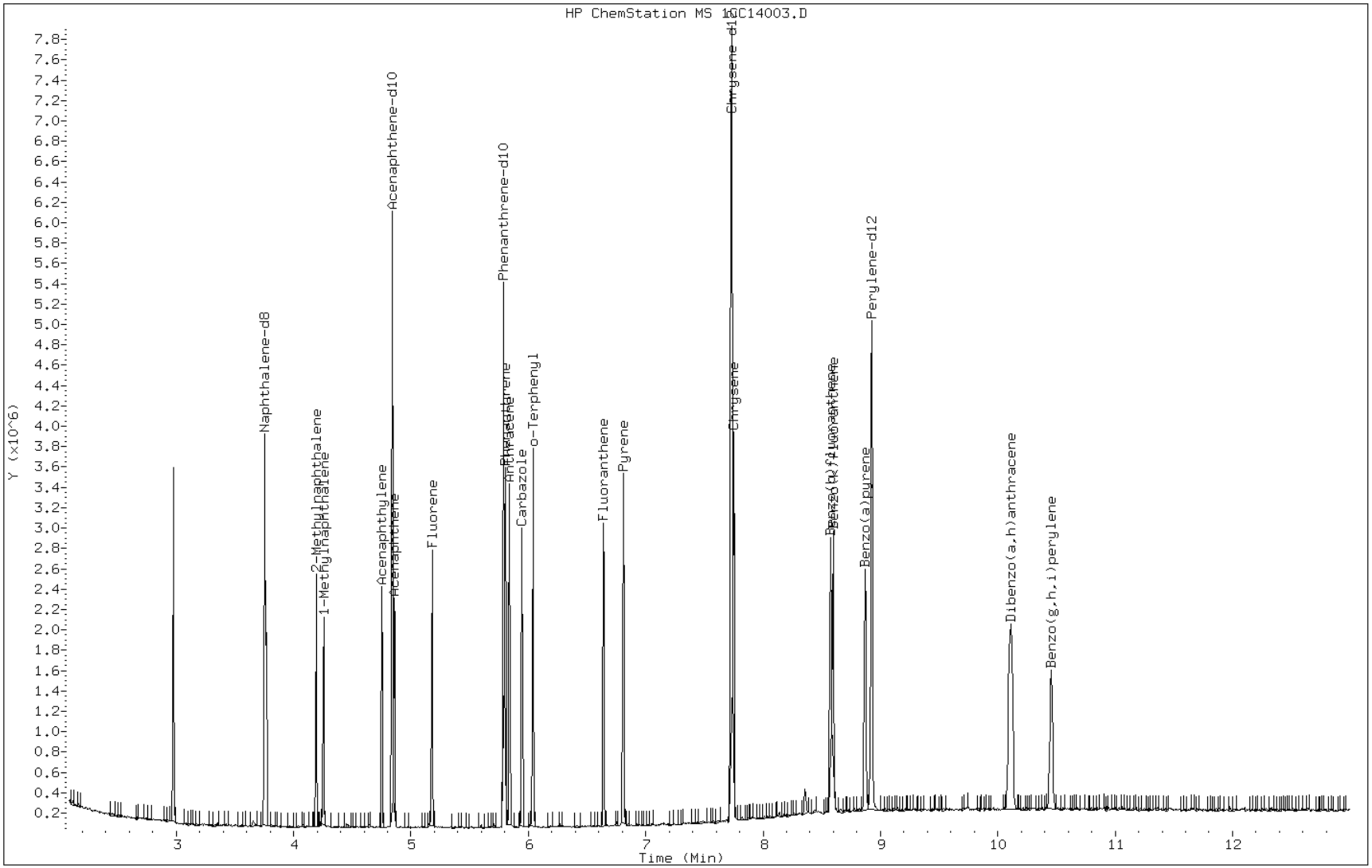
Date: 14-MAR-2013 11:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC



Manual Integration Report

Data File: 1CC14003.D
Inj. Date and Time: 14-MAR-2013 11:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

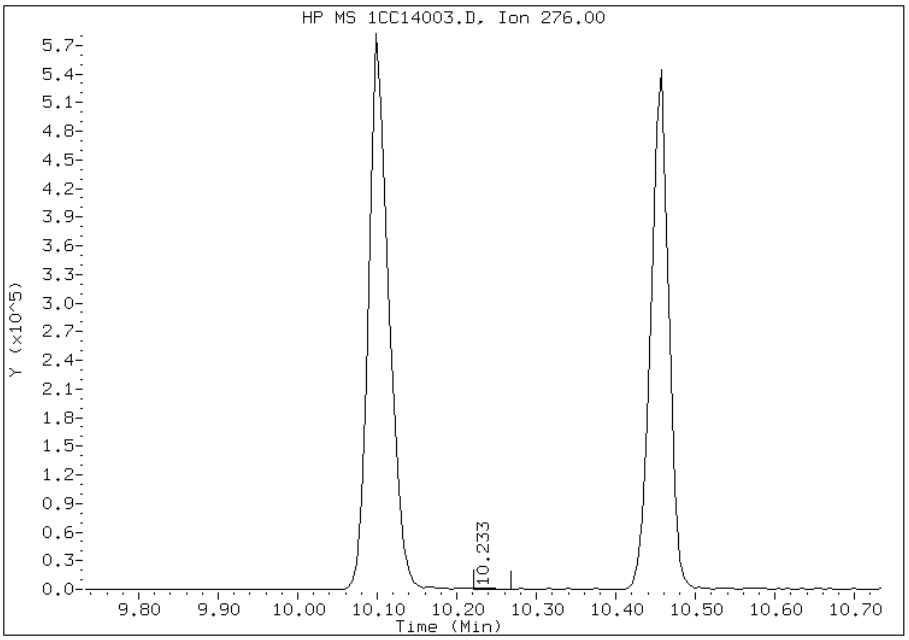
Processing Integration Results

RT: 10.23

Response: 1869

Amount: 0

Conc: 0



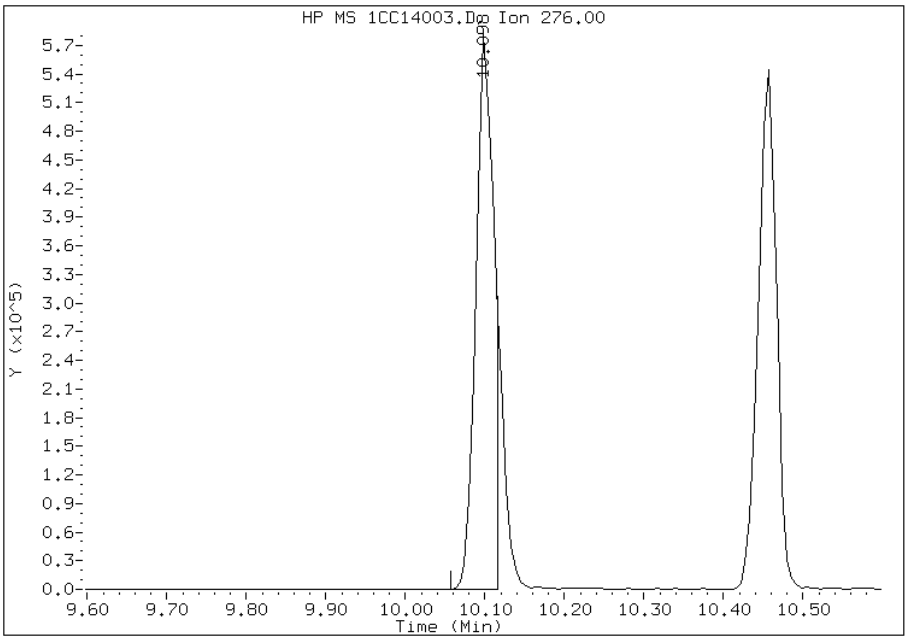
Manual Integration Results

RT: 10.10

Response: 903400

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 11:51
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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

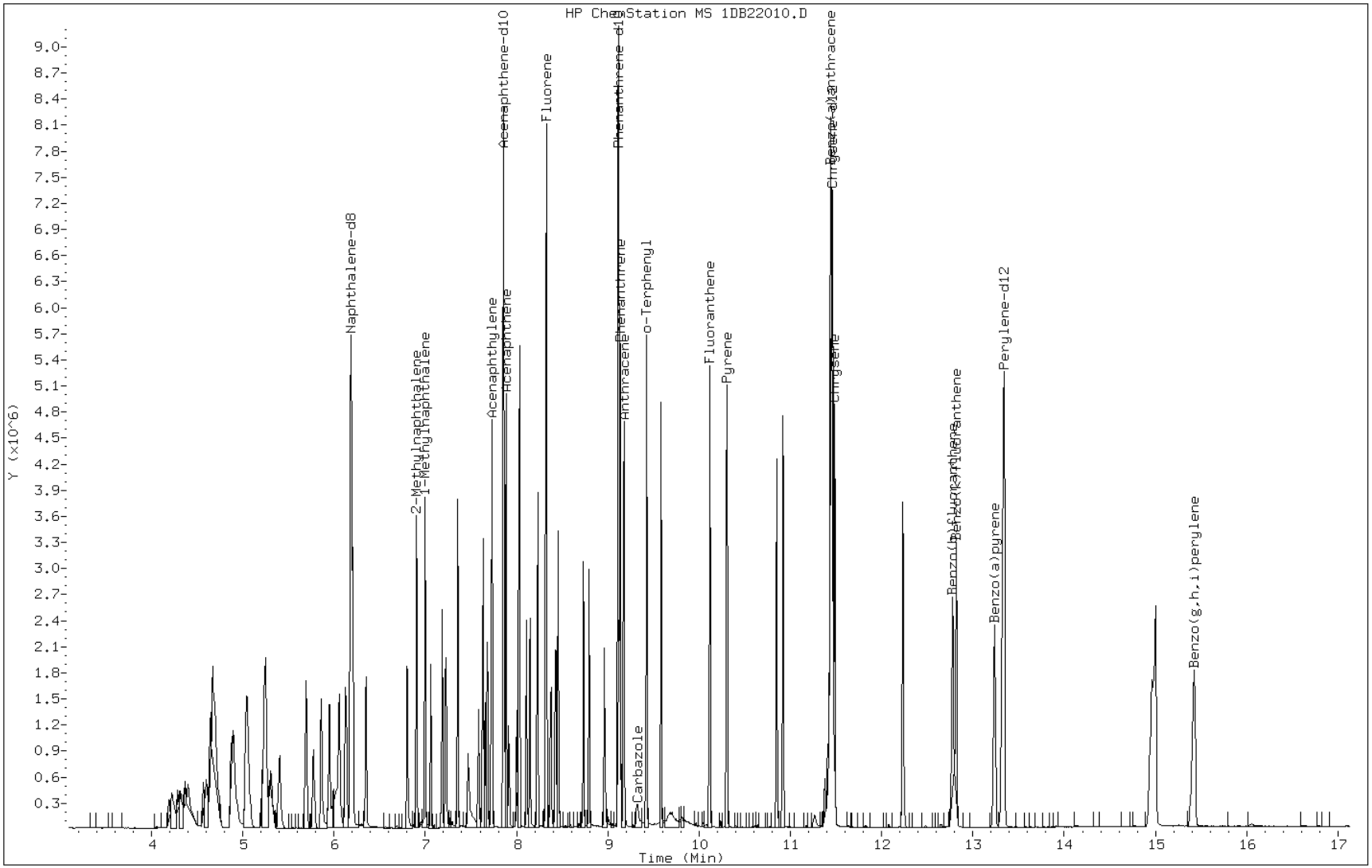
Date: 22-FEB-2013 14:51

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

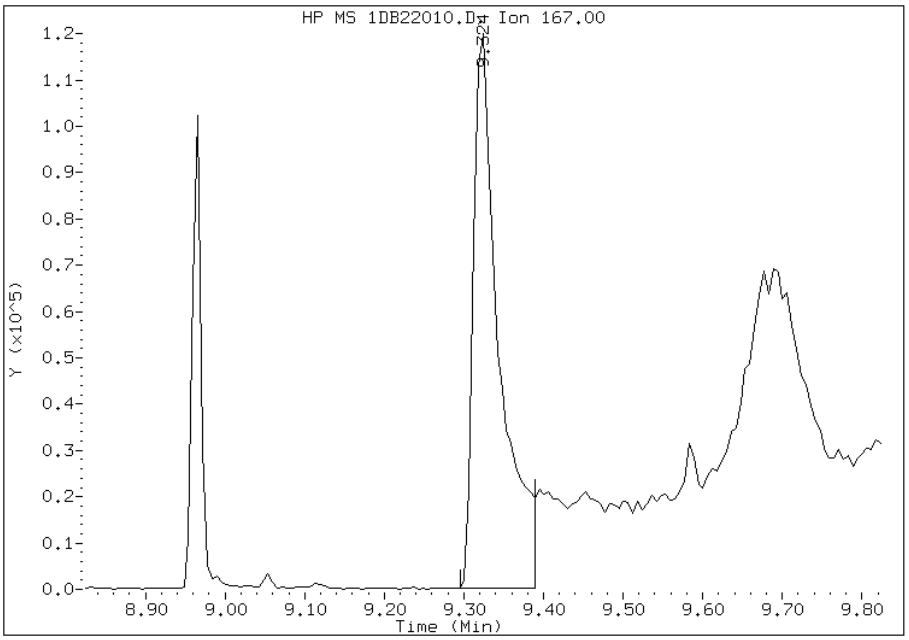
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



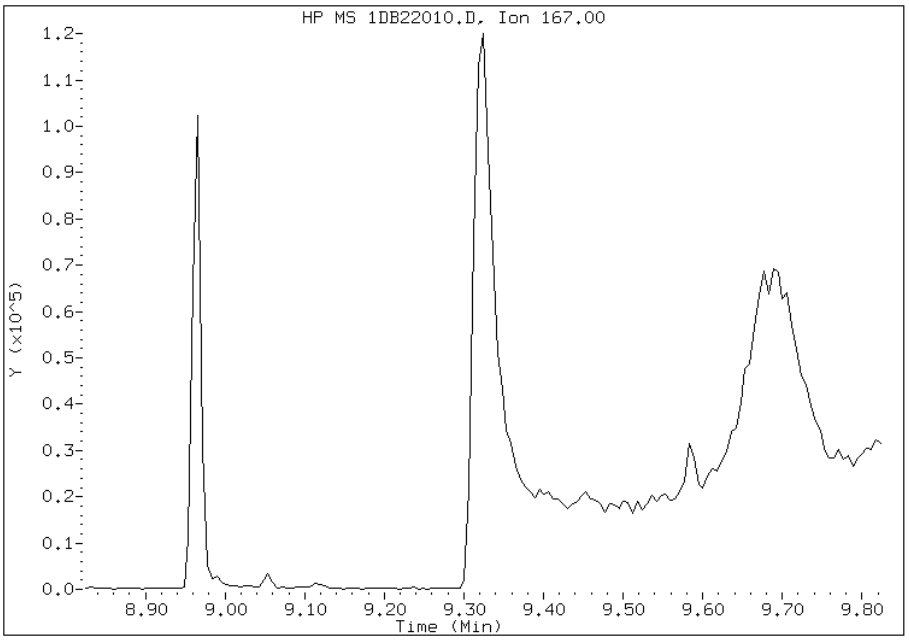
Manual Integration Results

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.: 680-88067-1

SDG No.: 68088067-1

Lab Sample ID: CCVIS 660-135407/3 Calibration Date: 03/14/2013 10:46

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: 1DC14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.061	0.0000	19800	20000	-0.8	20.0
2-Methylnaphthalene	Ave	0.6816	0.6875	0.0000	20200	20000	0.9	20.0
1-Methylnaphthalene	Ave	0.6383	0.6703	0.0000	21000	20000	5.0	20.0
Acenaphthylene	Ave	1.764	1.768	0.0000	20100	20000	0.3	20.0
Acenaphthene	Ave	1.075	1.064	0.0000	19800	20000	-1.0	20.0
Fluorene	Ave	1.256	1.225	0.0000	19500	20000	-2.5	20.0
Phenanthrene	Ave	1.135	1.121	0.0000	19700	20000	-1.3	20.0
Anthracene	Ave	1.136	1.141	0.0000	20100	20000	0.4	20.0
Carbazole	Ave	1.016	0.999	0.0000	19700	20000	-1.6	20.0
Fluoranthene	Ave	1.185	1.213	0.0000	20500	20000	2.4	20.0
Pyrene	Ave	1.241	1.226	0.0000	19800	20000	-1.2	20.0
Benzo[a]anthracene	LinF	1.184	1.087	0.0000	19900	20000	-0.7	20.0
Chrysene	Ave	1.131	1.086	0.0000	19200	20000	-3.9	20.0
Benzo[b]fluoranthene	Ave	1.030	1.010	0.0000	19600	20000	-1.9	20.0
Benzo[k]fluoranthene	Ave	1.078	1.092	0.0000	20300	20000	1.3	20.0
Benzo[a]pyrene	Ave	1.019	1.028	0.0000	20200	20000	0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.111	0.0000	20400	20000	2.2	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.014	0.0000	20200	20000	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.036	0.0000	20000	20000	-0.0	20.0
o-Terphenyl	Ave	0.6186	0.6513	0.0000	21100	20000	5.3	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\1DC14003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 14-MAR-2013 10:46
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\dFASTPAHi.m
Meth Date : 14-Mar-2013 11:05 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	6.143	6.143	(1.000)	2970259	40.0000	(H)
*	6 Acenaphthene-d10	164	7.818	7.818	(1.000)	1905441	40.0000	(H)
*	9 Phenanthrene-d10	188	9.081	9.081	(1.000)	3111970	40.0000	(H)
$	13 o-Terphenyl	230	9.393	9.393	(1.034)	1013435	20.0000	21(H)
*	17 Chrysene-d12	240	11.425	11.425	(1.000)	3300921	40.0000	(H)
*	22 Perylene-d12	264	13.300	13.300	(1.000)	3480021	40.0000	(H)
	2 Naphthalene	128	6.167	6.167	(1.004)	1576396	20.0000	20(H)
	3 2-Methylnaphthalene	142	6.866	6.866	(1.118)	1021055	20.0000	20(H)
	4 1-Methylnaphthalene	142	6.960	6.960	(1.133)	995532	20.0000	21(H)
	5 Acenaphthylene	152	7.689	7.689	(0.983)	1684517	20.0000	20(H)
	7 Acenaphthene	154	7.847	7.847	(1.004)	1013755	20.0000	20(H)
	8 Fluorene	166	8.288	8.288	(1.060)	1166680	20.0000	19(H)
	10 Phenanthrene	178	9.099	9.099	(1.002)	1744380	20.0000	20(H)
	11 Anthracene	178	9.140	9.140	(1.006)	1774821	20.0000	20(H)
	12 Carbazole	167	9.281	9.281	(1.022)	1554561	20.0000	20(H)
	14 Fluoranthene	202	10.086	10.086	(1.111)	1888151	20.0000	20(H)
	15 Pyrene	202	10.274	10.274	(0.899)	2023672	20.0000	20(H)
	16 Benzo(a)anthracene	228	11.402	11.402	(0.998)	1794304	20.0000	20(H)
	18 Chrysene	228	11.455	11.455	(1.003)	1792566	20.0000	19(H)
	19 Benzo(b)fluoranthene	252	12.742	12.742	(0.958)	1757925	20.0000	20(H)
	20 Benzo(k)fluoranthene	252	12.783	12.783	(0.961)	1899692	20.0000	20(H)
	21 Benzo(a)pyrene	252	13.200	13.200	(0.992)	1789355	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.921	14.921	(1.122)	1932819	20.0000	20(MH)
	24 Dibenzo(a,h)anthracene	278	14.951	14.951	(1.124)	1765038	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.380	15.380	(1.156)	1803089	20.0000	20(H)

QC Flag Legend

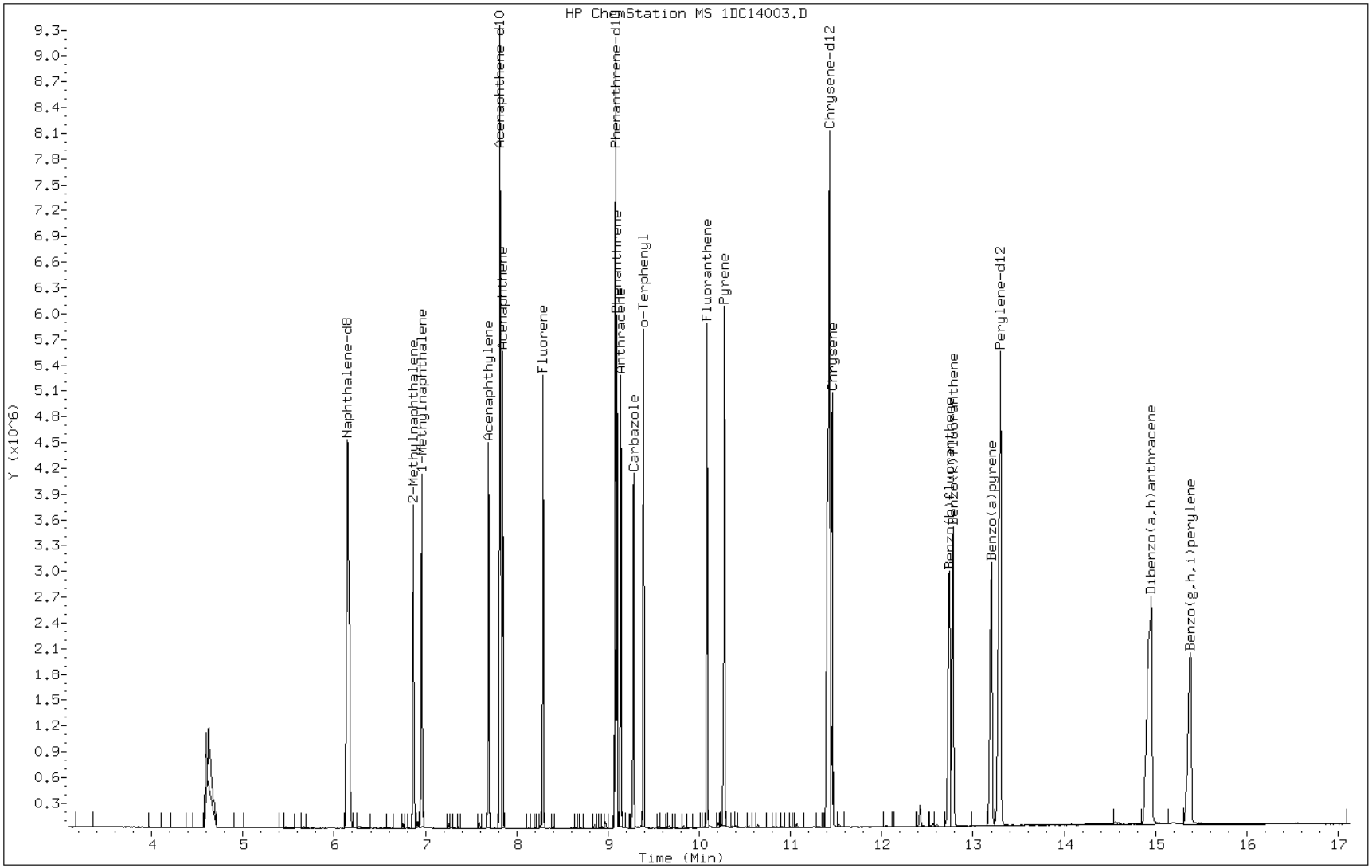
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DC14003.D

Date: 14-MAR-2013 10:46

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1DC14003.D
Inj. Date and Time: 14-MAR-2013 10:46
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/14/2013

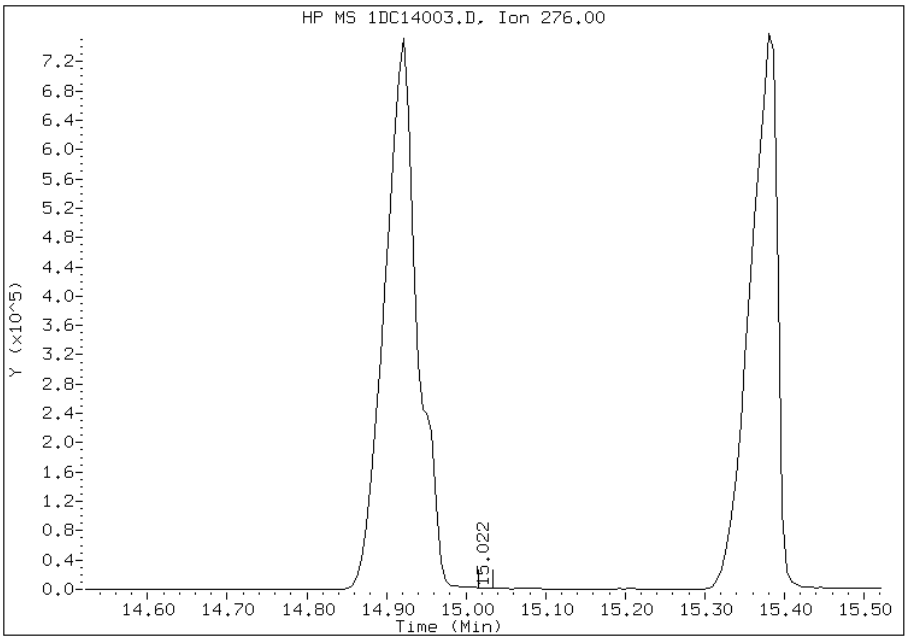
Processing Integration Results

RT: 15.02

Response: 998

Amount: 0

Conc: 0



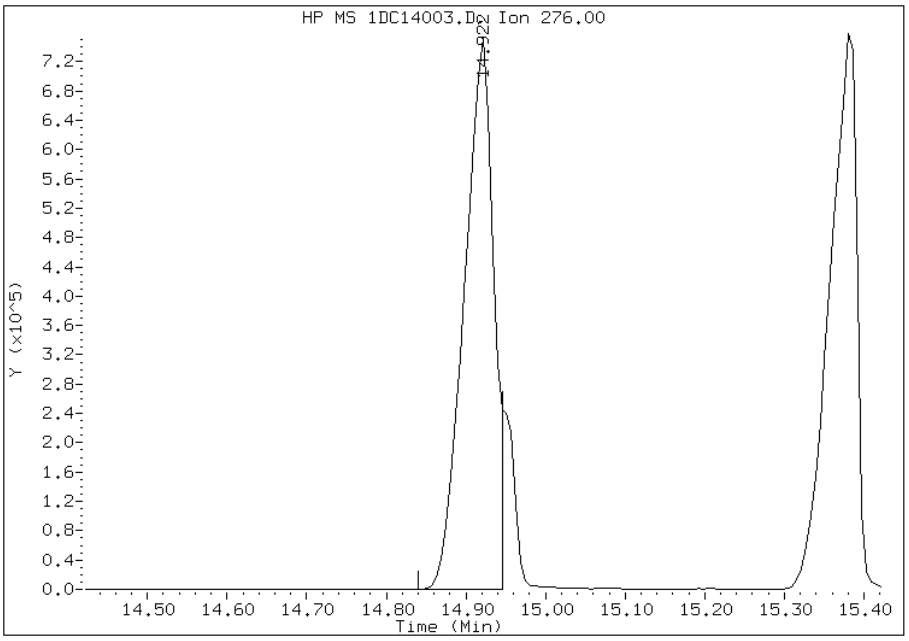
Manual Integration Results

RT: 14.92

Response: 1932819

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 11:07
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 10:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.683	4.928	-0.245	198	76440			50.00- 0.00	100.00
4.683	4.928	-0.245	51	48552			10.00- 80.00	63.52
4.683	4.928	-0.245	68	695			0.00- 2.00	1.70
4.683	4.928	-0.245	69	40984			0.00- 0.00	53.62
4.683	4.928	-0.245	70	313			0.00- 2.00	0.76
4.683	4.928	-0.245	127	33880			10.00- 80.00	44.32
4.683	4.928	-0.245	197	0	0.0	0.0	0.00- 2.00	0.00
4.683	4.928	-0.245	442	51640			50.00- 0.00	67.56
4.683	4.928	-0.245	199	4343			5.00- 9.00	5.68
4.683	4.928	-0.245	275	19136			10.00- 60.00	25.03
4.683	4.928	-0.245	365	2453			1.00- 0.00	3.21
4.683	4.928	-0.245	441	6484			0.01- 99.99	79.28
4.683	4.928	-0.245	443	8179			15.00- 24.00	15.84

Data File: 1AB22002.D

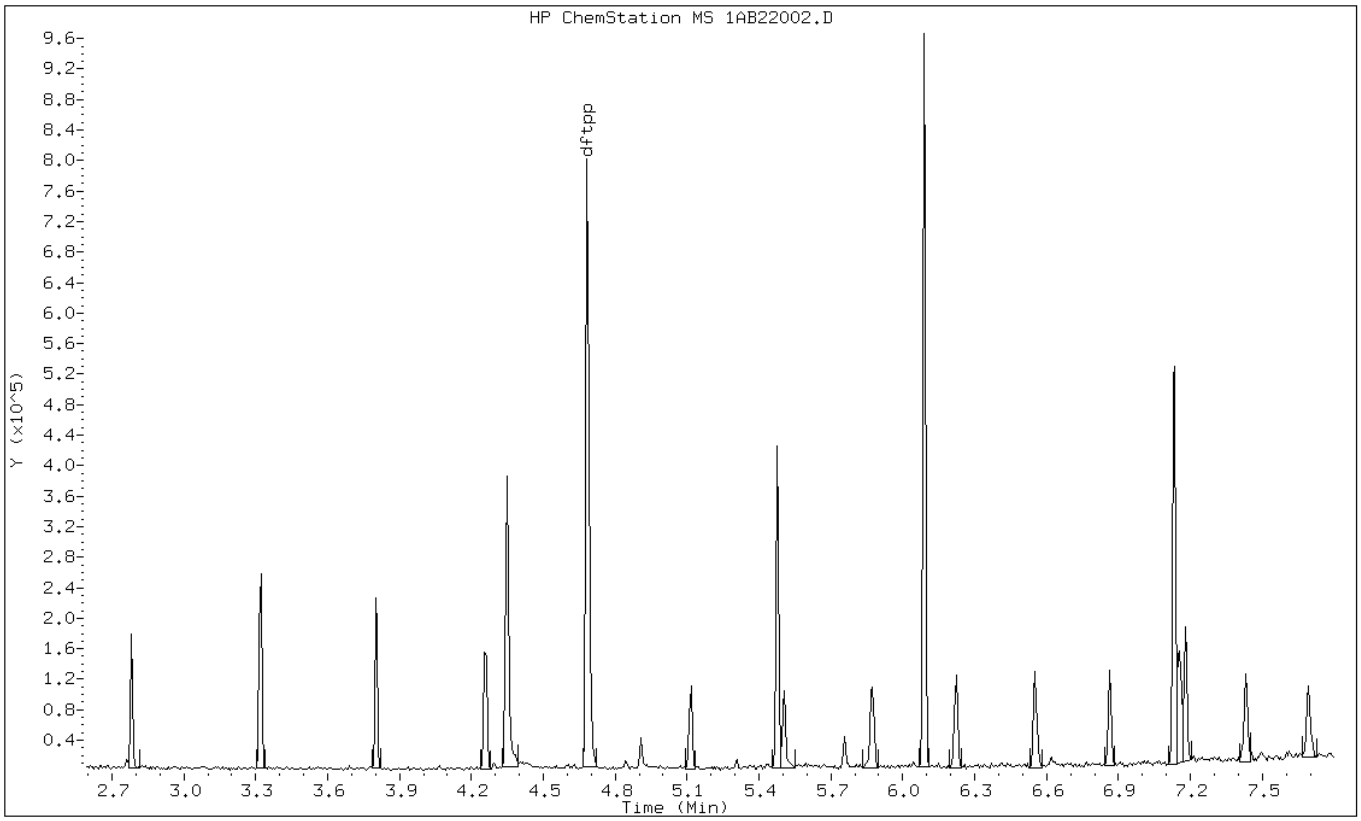
Date: 22-FEB-2013 10:42

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



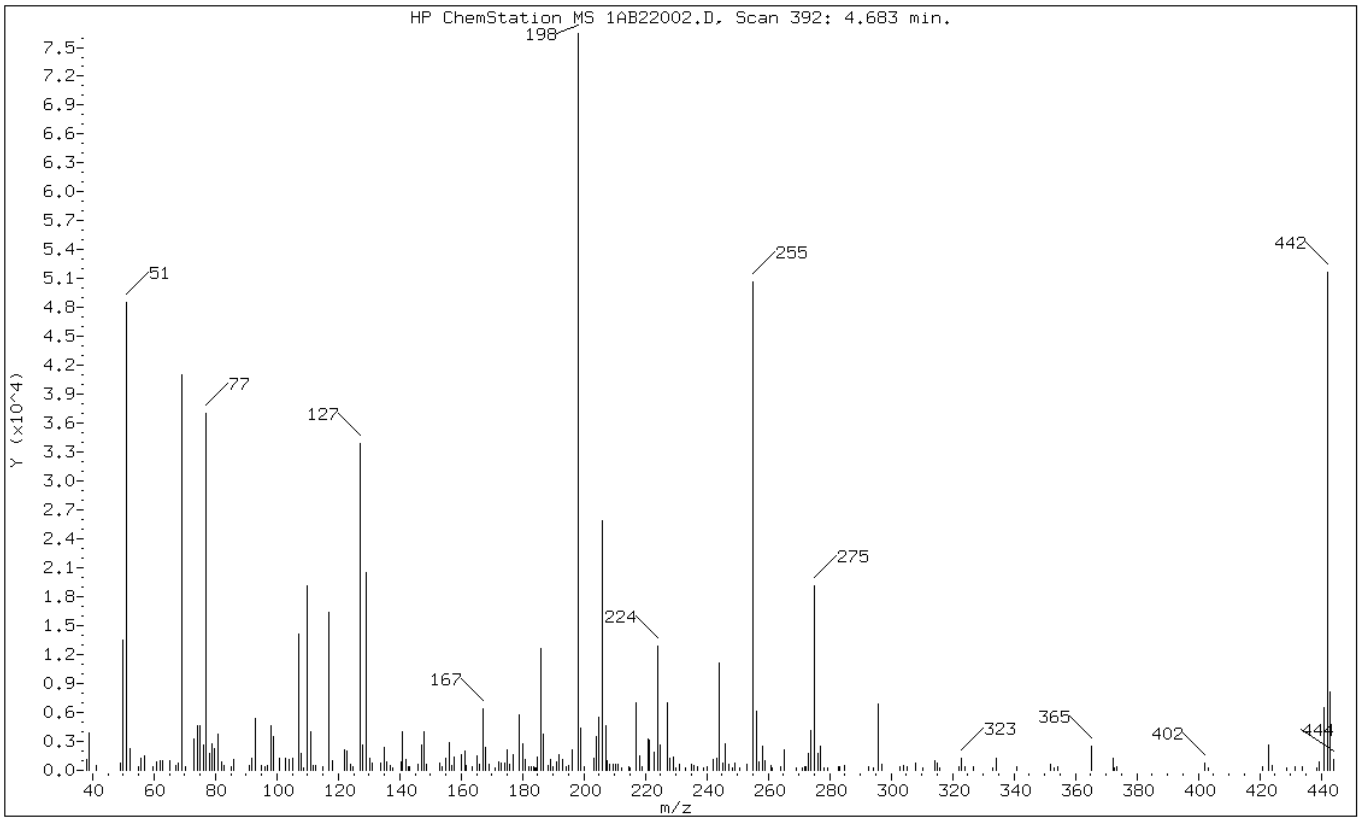
Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 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	63.52
68	Less than 2.00% of mass 69	0.91 (1.70)
69	Mass 69 relative abundance	53.62
70	Less than 2.00% of mass 69	0.41 (0.76)
127	10.00 - 80.00% of mass 198	44.32
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.56
199	5.00 - 9.00% of mass 198	5.68
275	10.00 - 60.00% of mass 198	25.03
365	Greater than 1.00% of mass 198	3.21
441	Present, but less than mass 443	8.48
443	15.00 - 24.00% of mass 442	10.70 (15.84)

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22002.D
Spectrum: HP ChemStation MS 1AB22002.D, Scan 392: 4.683 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	1153	127.00	33880	194.20	434	269.20	256
39.00	3901	128.00	2620	195.20	479	271.10	267
41.10	559	129.00	20472	196.00	2162	271.80	321
49.00	742	130.10	1229	198.00	76440	272.30	357
50.00	13495	131.10	707	198.90	4343	273.00	1788
51.10	48552	134.00	733	200.10	313	274.00	4170
52.10	2289	135.00	2429	203.10	1213	275.00	19136
55.10	393	135.90	826	204.10	3455	276.10	1704
55.90	1274	137.00	527	205.00	5534	277.10	2520
57.00	1489	137.80	258	206.00	25944	278.30	253
59.70	351	140.30	859	207.10	4571	279.20	254
61.00	921	141.00	3943	207.70	997	282.80	333
62.00	978	142.10	1176	208.20	617	283.10	392
63.00	1049	142.90	410	209.40	639	285.00	539
65.00	989	143.10	410	210.20	629	292.80	317
67.00	554	146.00	603	211.00	591	294.40	260
67.80	695	147.10	2625	212.10	283	296.00	6928
69.00	40984	148.00	3950	214.50	412	297.10	604
70.10	313	148.80	676	215.20	311	303.00	324
73.10	3244	152.90	760	217.00	6968	304.10	484
74.00	4690	153.80	361	218.10	1521	305.10	409
75.00	4581	155.00	1227	218.80	315	308.10	725
76.10	2591	156.10	2898	221.00	3248	310.20	250
77.10	37072	157.00	445	221.30	3132	314.10	976
78.10	1749	157.90	1331	223.00	1909	315.20	810
78.90	2758	160.00	1611	224.10	12886	316.00	275
79.80	2228	161.10	2037	225.00	2626	322.00	374
81.00	3724	161.80	525	227.00	7049	323.00	1296
82.10	889	163.80	323	227.90	1242	324.20	381
83.00	487	165.00	1535	229.00	1425	326.80	328
85.10	368	166.10	619	230.10	312	333.00	311
86.00	1135	167.00	6330	231.20	601	334.10	1292
91.00	478	168.10	2348	232.90	260	340.90	433
92.00	1243	169.20	579	235.00	643	352.00	686
93.00	5320	171.10	295	236.00	555	353.20	307
95.00	452	172.10	909	236.80	320	354.20	418
96.30	341	173.00	778	239.10	304	365.10	2453
97.10	462	174.10	770	240.10	385	372.30	1226
98.00	4672	175.00	2158	242.00	1100	372.80	254
99.00	3560	175.80	583	243.10	1259	373.40	339

101.00	1215	177.00	1626	244.10	11075	402.00	723
103.00	1200	179.00	5738	245.20	781	403.30	273
104.10	1188	180.10	2793	246.10	2764	421.10	397
105.00	1287	180.90	1134	247.00	596	423.10	2660
107.00	14120	182.10	437	248.30	297	423.90	559
107.90	1762	182.90	346	249.30	777	428.80	261
108.80	304	183.70	418	250.90	273	431.40	365
110.00	19200	184.10	287	253.20	565	433.80	325
111.00	3941	184.30	289	255.10	50672	438.60	291
112.00	530	184.90	1381	256.10	6117	439.20	886
112.60	470	186.00	12633	257.10	937	441.00	6484
115.10	321	186.90	3785	258.10	2516	442.00	51640
117.00	16392	188.20	480	259.00	942	443.00	8179
118.10	945	189.00	1158	260.90	490	444.10	1146
122.00	2165	190.00	413	261.30	276		
122.90	1978	190.90	838	263.90	325		
123.90	580	192.00	1684	264.20	322		
124.80	382	193.10	1067	265.20	2067		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 13-MAR-2013 10:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.580	4.928	-0.348	198	26613			50.00- 0.00	100.00
4.580	4.928	-0.348	51	20274			10.00- 80.00	76.18
4.580	4.928	-0.348	68	303			0.00- 2.00	1.93
4.580	4.928	-0.348	69	15691			0.00- 0.00	58.96
4.580	4.928	-0.348	70	0	0.0	0.0	0.00- 2.00	0.00
4.580	4.928	-0.348	127	14227			10.00- 80.00	53.46
4.580	4.928	-0.348	197	345			0.00- 2.00	1.30
4.580	4.928	-0.348	442	17782			50.00- 0.00	66.82
4.580	4.928	-0.348	199	1799			5.00- 9.00	6.76
4.580	4.928	-0.348	275	7601			10.00- 60.00	28.56
4.580	4.928	-0.348	365	1212			1.00- 0.00	4.55
4.580	4.928	-0.348	441	2690			0.01- 99.99	98.10
4.580	4.928	-0.348	443	2742			15.00- 24.00	15.42

Data File: 1AC13003.D

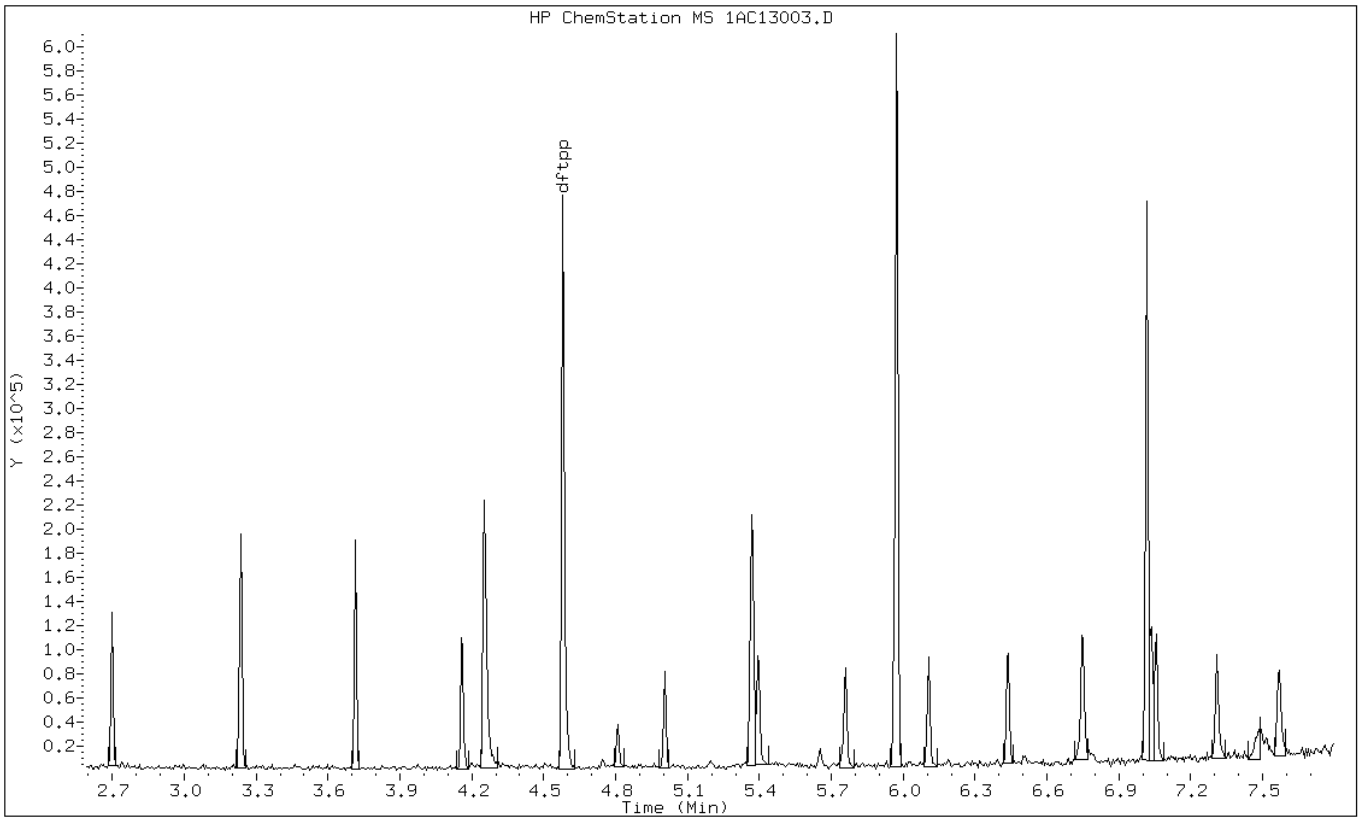
Date: 13-MAR-2013 10:43

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



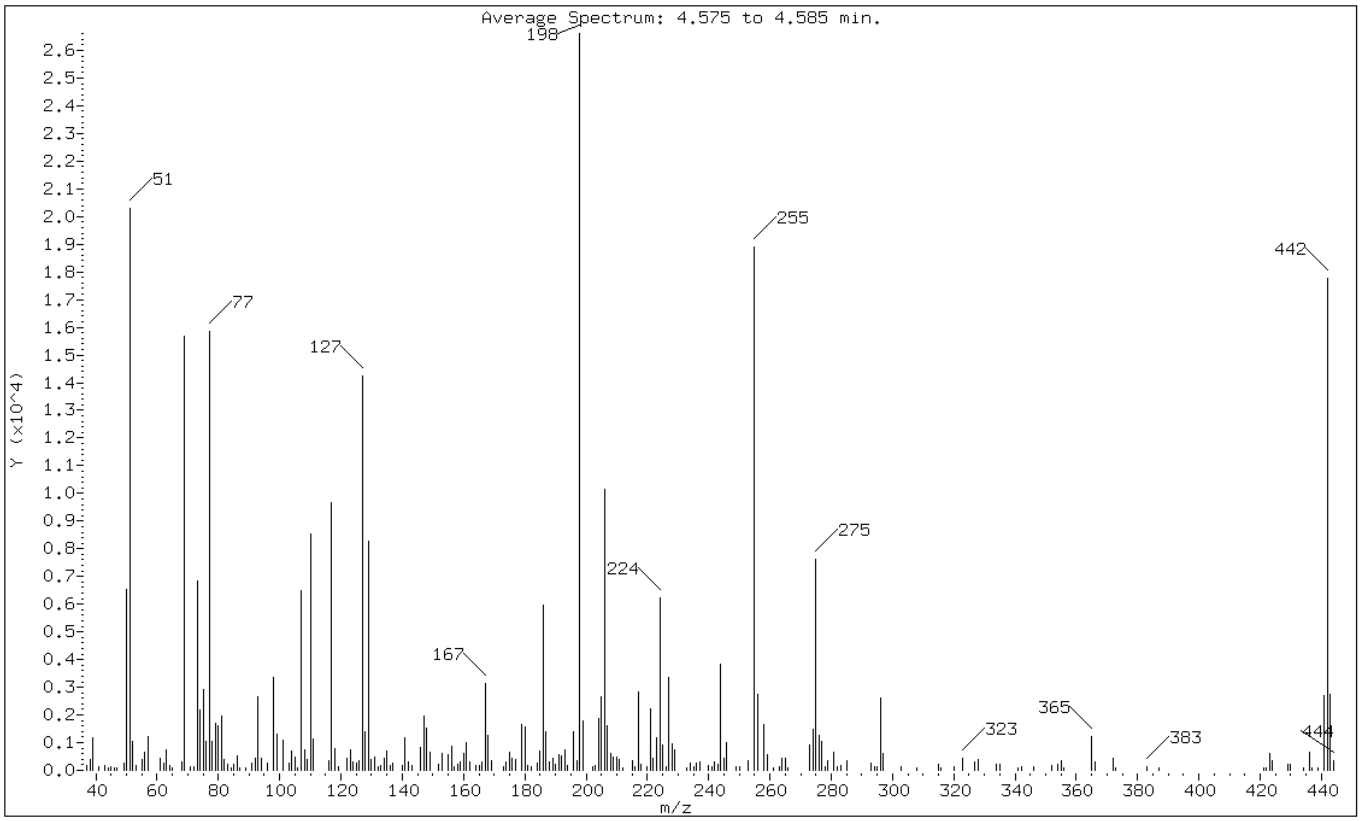
Data File: 1AC13003.D

Date: 13-MAR-2013 10:43

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 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	76.18
68	Less than 2.00% of mass 69	1.14 (1.93)
69	Mass 69 relative abundance	58.96
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	53.46
197	Less than 2.00% of mass 198	1.30
442	Greater than 50.00% of mass 198	66.82
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 60.00% of mass 198	28.56
365	Greater than 1.00% of mass 198	4.55
441	Present, but less than mass 443	10.11
443	15.00 - 24.00% of mass 442	10.30 (15.42)

Data File: 1AC13003.D

Date: 13-MAR-2013 10:43

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13003.D
Spectrum: Average Spectrum: 4.575 to 4.585 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	153	111.00	1143	188.00	296	265.00	438
38.00	375	116.00	359	189.00	426	266.00	93
39.00	1183	117.00	9648	190.00	211	273.00	931
41.00	148	118.00	780	191.00	546	274.00	1499
43.00	169	119.00	114	192.00	531	275.00	7601
44.00	102	122.00	448	193.00	724	276.00	1248
45.00	133	123.00	762	194.00	195	277.00	1052
46.00	87	124.00	323	196.00	1373	278.00	120
47.00	104	125.00	246	197.00	345	279.00	332
49.00	247	126.00	332	198.00	26608	281.00	655
50.00	6516	127.00	14227	199.00	1799	282.00	152
51.00	20272	128.00	1402	202.00	116	283.00	195
52.00	1029	129.00	8285	203.00	157	285.00	338
53.00	160	130.00	375	204.00	1854	293.00	254
55.00	398	131.00	475	205.00	2645	294.00	148
56.00	632	132.00	130	206.00	10158	295.00	120
57.00	1210	133.00	185	207.00	1624	296.00	2597
61.00	419	134.00	429	208.00	616	297.00	592
62.00	266	135.00	679	209.00	463	303.00	144
63.00	761	136.00	178	210.00	458	308.00	92
64.00	174	137.00	262	211.00	407	315.00	210
65.00	95	140.00	158	212.00	99	316.00	99
68.00	303	141.00	1190	215.00	349	320.00	109
69.00	15691	142.00	304	216.00	149	323.00	456
71.00	121	143.00	165	217.00	2813	327.00	316
72.00	132	146.00	815	218.00	233	328.00	382
73.00	6840	147.00	1942	220.00	128	334.00	212
74.00	2196	148.00	1507	221.00	2217	335.00	202
75.00	2905	149.00	642	222.00	418	341.00	106
76.00	1044	152.00	217	223.00	1162	342.00	111
77.00	15834	153.00	613	224.00	6244	346.00	132
78.00	1026	155.00	568	225.00	900	352.00	164
79.00	1709	156.00	873	226.00	109	354.00	196
80.00	1619	157.00	127	227.00	3356	355.00	330
81.00	1970	158.00	211	228.00	960	356.00	99
82.00	377	159.00	310	229.00	722	365.00	1212
83.00	208	160.00	622	233.00	84	366.00	315
84.00	84	161.00	1002	234.00	274	372.00	442
85.00	217	162.00	319	235.00	123	373.00	93
86.00	507	164.00	167	236.00	263	383.00	131

87.00	98	165.00	187	237.00	316	387.00	92
89.00	99	166.00	304	240.00	192	421.00	102
91.00	244	167.00	3147	241.00	146	422.00	105
92.00	448	168.00	1251	242.00	294	423.00	602
93.00	2661	169.00	370	243.00	224	424.00	348
94.00	419	173.00	149	244.00	3838	429.00	199
96.00	260	174.00	306	245.00	451	430.00	207
98.00	3352	175.00	657	246.00	1002	434.00	92
99.00	1304	176.00	422	249.00	124	436.00	639
101.00	1068	177.00	371	250.00	126	437.00	107
103.00	246	179.00	1666	253.00	348	439.00	92
104.00	678	180.00	1574	255.00	18912	441.00	2690
105.00	485	181.00	156	256.00	2743	442.00	17776
106.00	85	182.00	117	258.00	1668	443.00	2742
107.00	6484	184.00	268	259.00	569	444.00	357
108.00	754	185.00	679	261.00	88		
109.00	381	186.00	5972	263.00	119		
110.00	8553	187.00	1386	264.00	426		

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

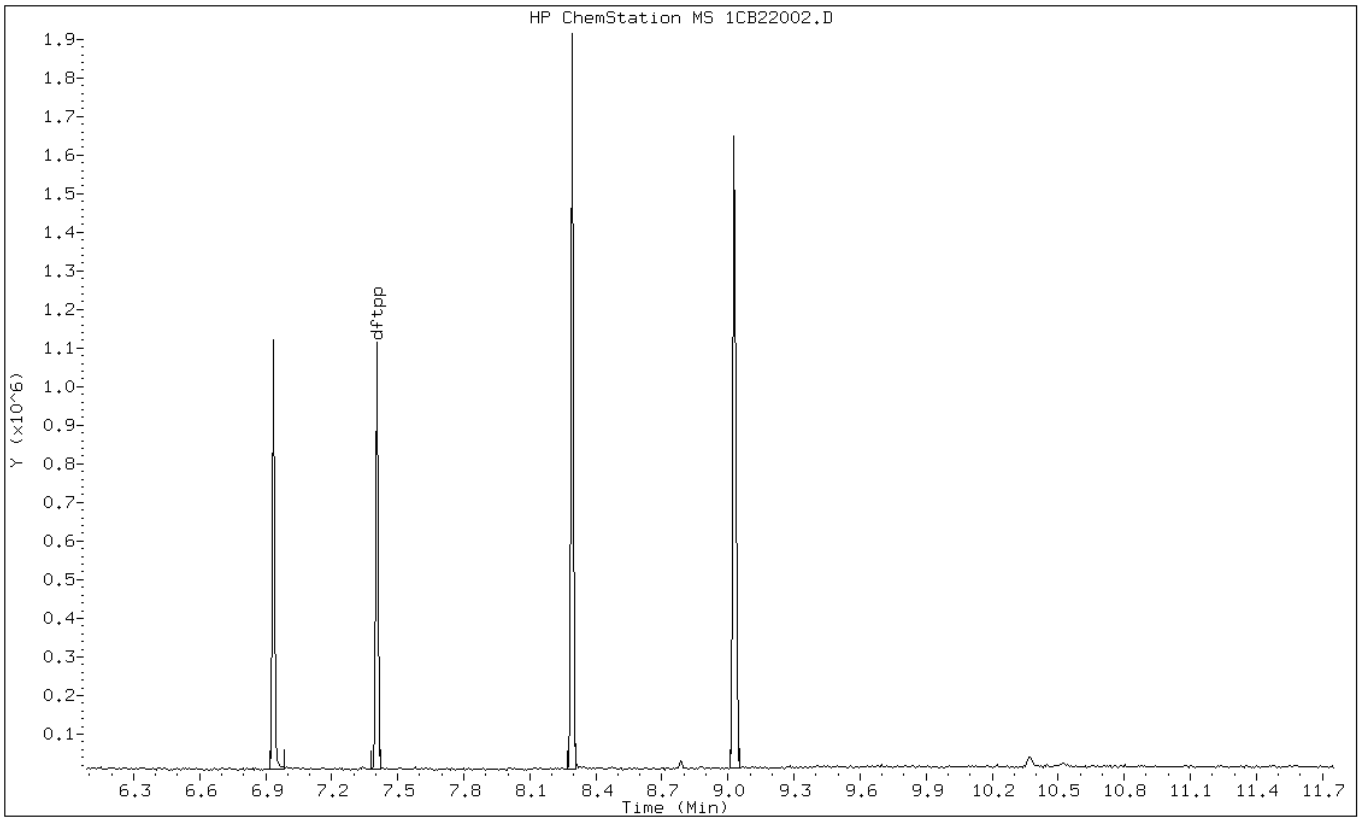
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



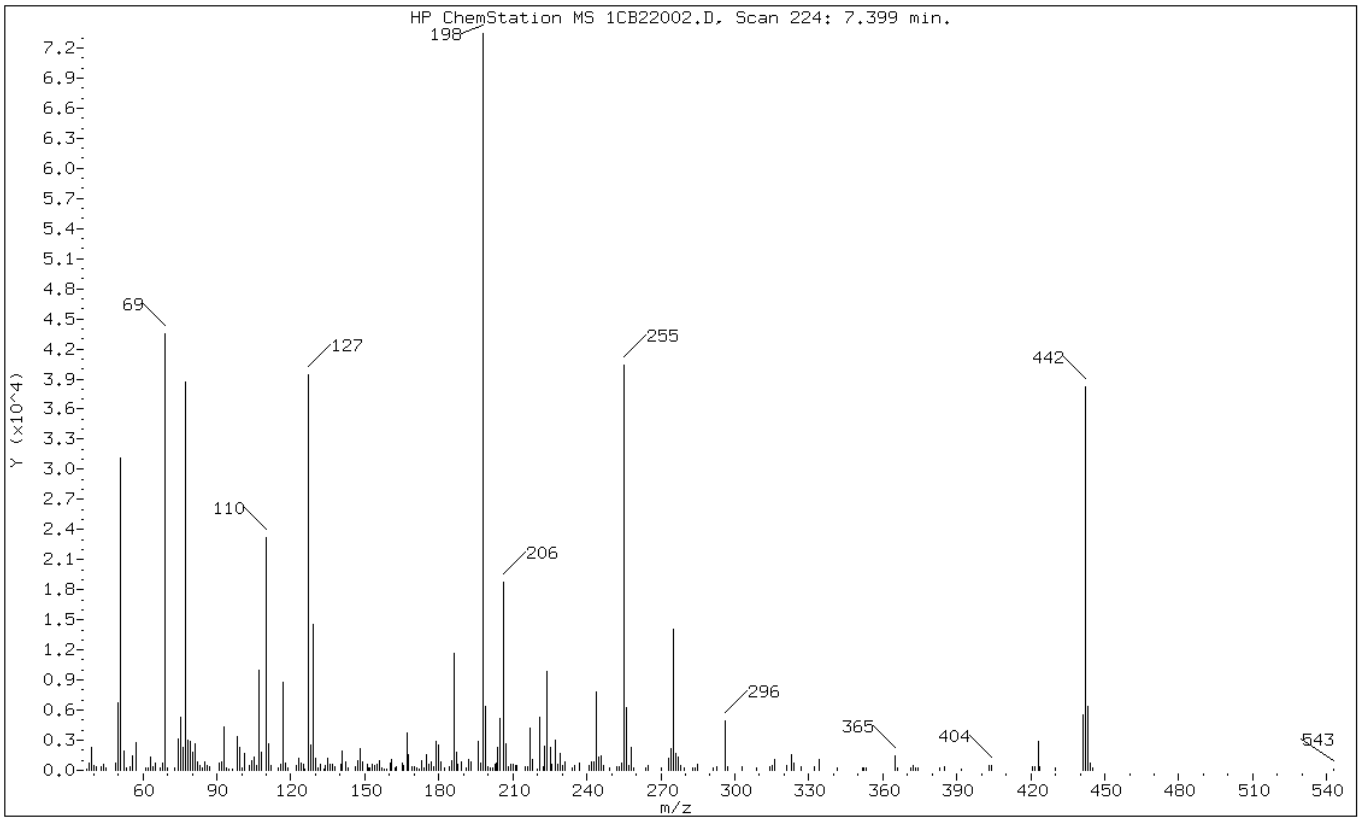
Data File: 1CB22002.D

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		

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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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.363	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

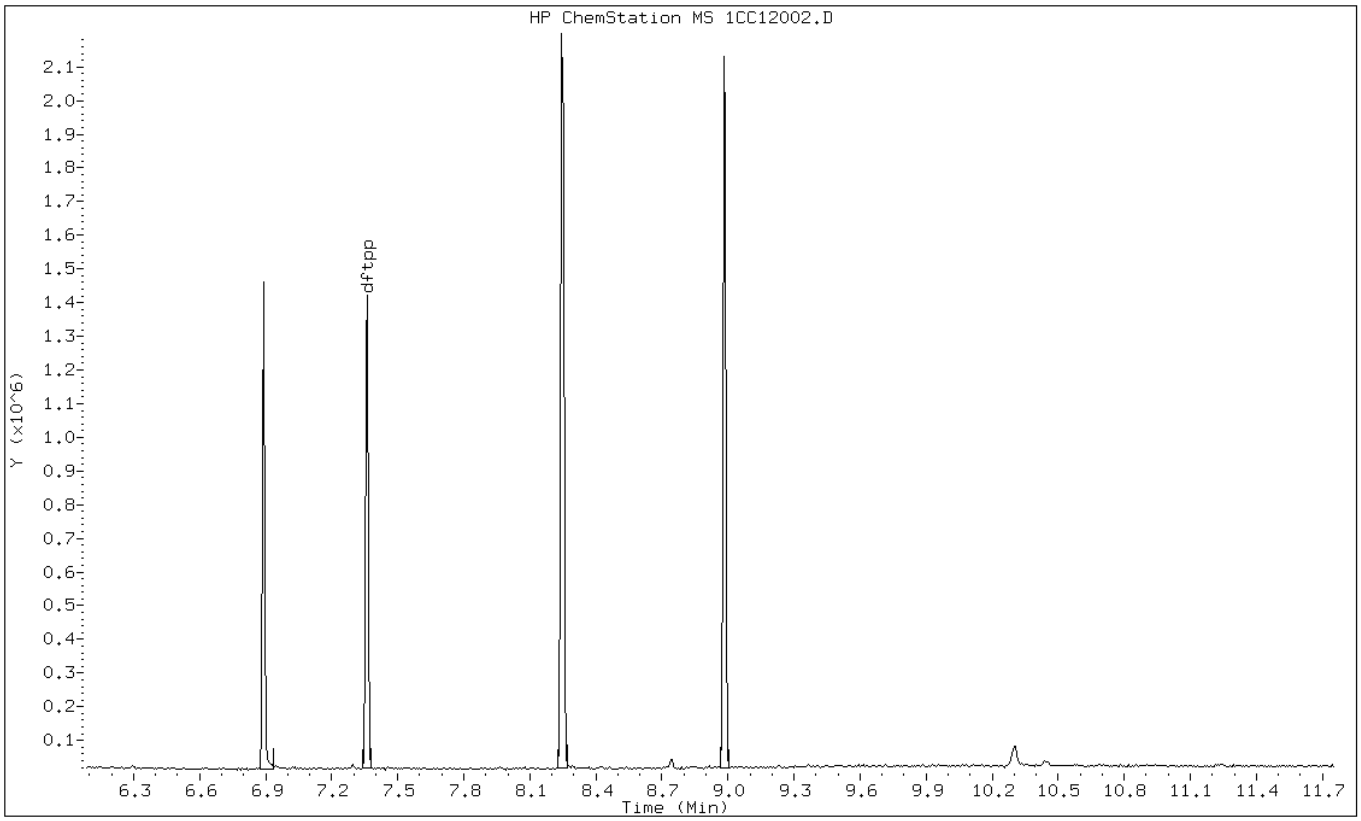
Date: 12-MAR-2013 12:01

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



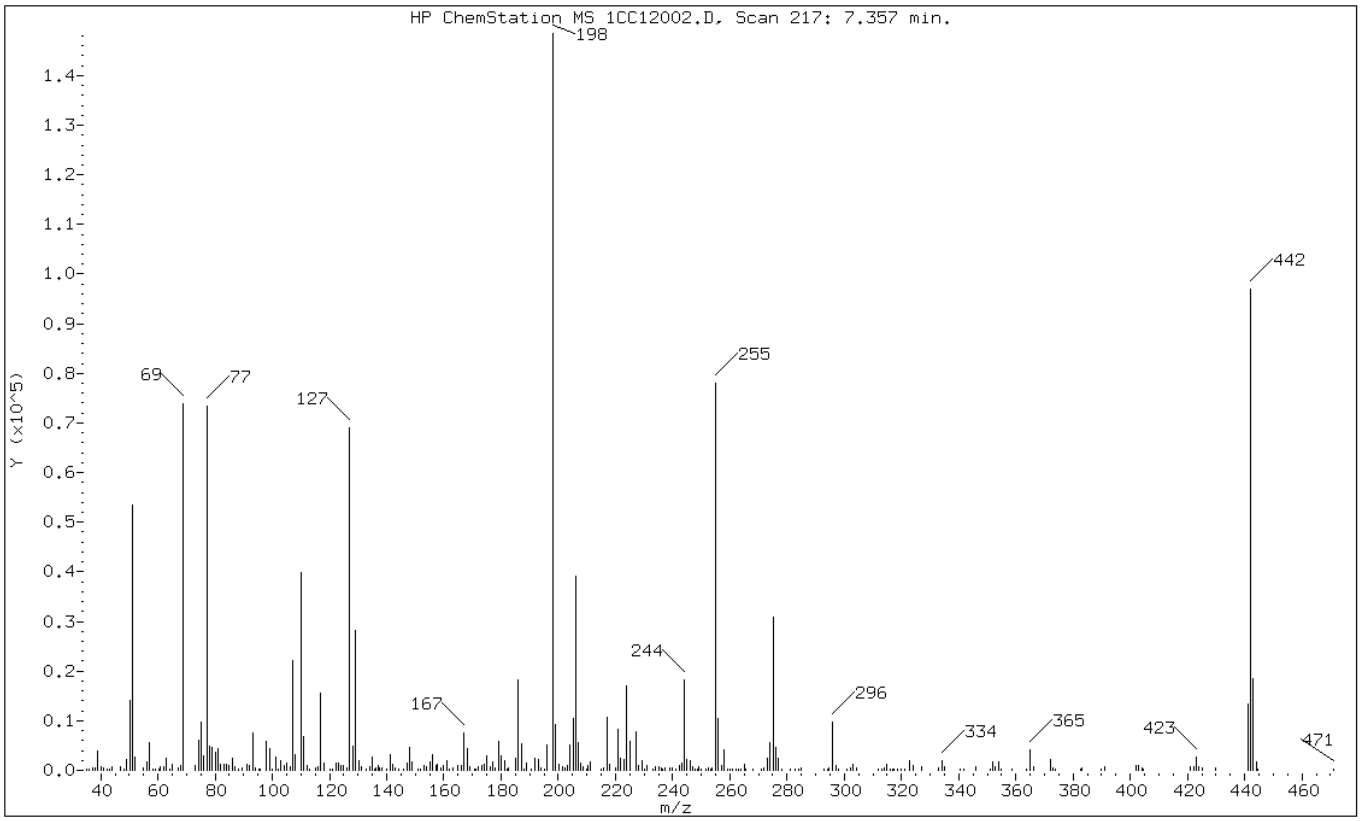
Data File: 1CC12002.D

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\1C031413.b\1CC14002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 14-MAR-2013 11:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.351	7.469	-0.118	198	127800			50.00- 0.00	100.00
7.351	7.469	-0.118	51	49216			10.00- 80.00	38.51
7.351	7.469	-0.118	68	1164			0.00- 2.00	1.83
7.351	7.469	-0.118	69	63624			0.00- 0.00	49.78
7.351	7.469	-0.118	70	345			0.00- 2.00	0.54
7.351	7.469	-0.118	127	64360			10.00- 80.00	50.36
7.351	7.469	-0.118	197	0	0.0	0.0	0.00- 2.00	0.00
7.351	7.469	-0.118	442	80712			50.00- 0.00	63.15
7.351	7.469	-0.118	199	9897			5.00- 9.00	7.74
7.351	7.469	-0.118	275	26152			10.00- 60.00	20.46
7.351	7.469	-0.118	365	3478			1.00- 0.00	2.72
7.351	7.469	-0.118	441	13318			0.01- 99.99	80.73
7.351	7.469	-0.118	443	16496			15.00- 24.00	20.44

Data File: 1CC14002.D

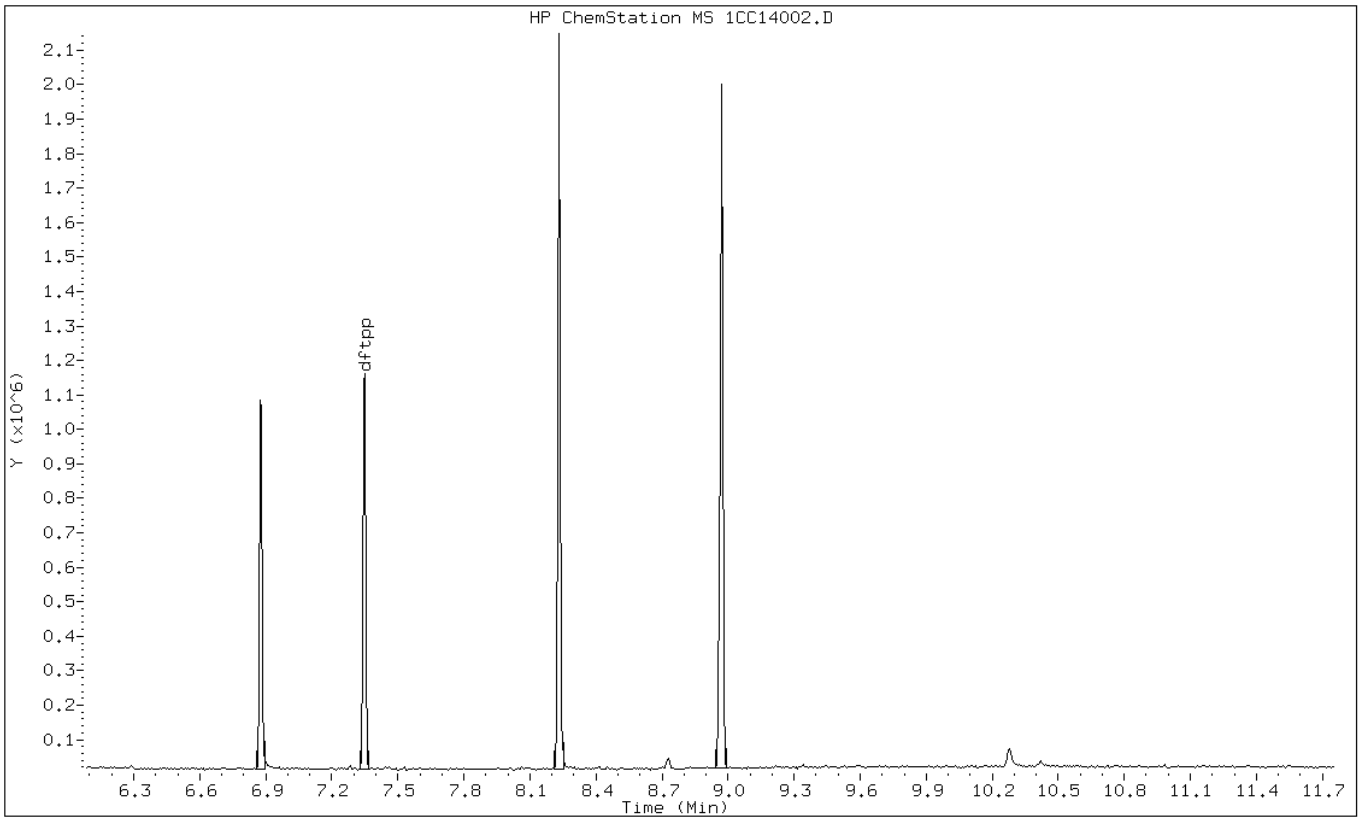
Date: 14-MAR-2013 11:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



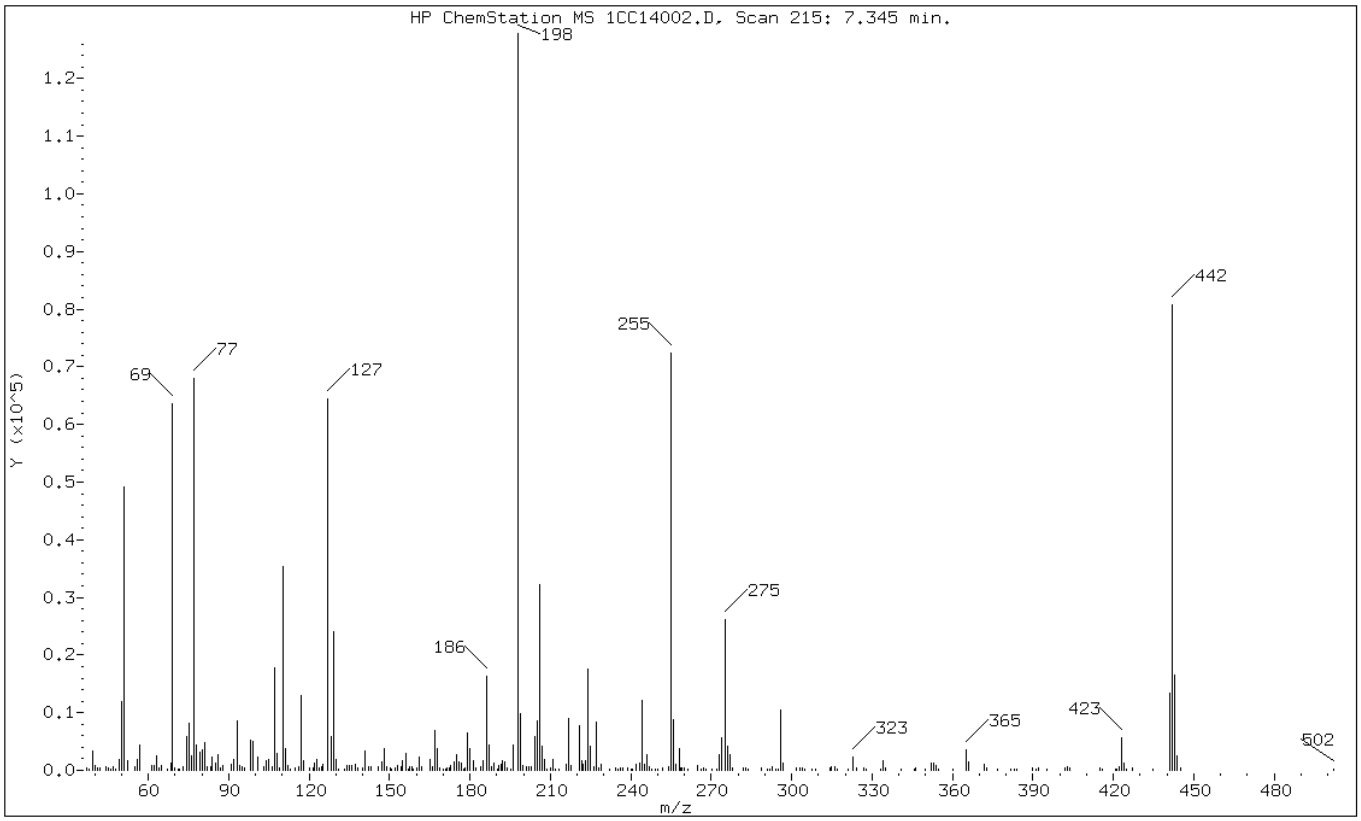
Data File: 1CC14002.D

Date: 14-MAR-2013 11:18

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	38.51
68	Less than 2.00% of mass 69	0.91 (1.83)
69	Mass 69 relative abundance	49.78
70	Less than 2.00% of mass 69	0.27 (0.54)
127	10.00 - 80.00% of mass 198	50.36
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	63.15
199	5.00 - 9.00% of mass 198	7.74
275	10.00 - 60.00% of mass 198	20.46
365	Greater than 1.00% of mass 198	2.72
441	Present, but less than mass 443	10.42
443	15.00 - 24.00% of mass 442	12.91 (20.44)

Data File: 1CC14002.D

Date: 14-MAR-2013 11:18

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14002.D
Spectrum: HP ChemStation MS 1CC14002.D, Scan 215: 7.345 min.
Location of Maximum: 198.00
Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	435	122.10	1334	196.10	4446	282.90	426
38.00	205	123.00	1891	198.00	127800	283.80	259
39.10	3412	123.90	520	199.00	9897	288.90	356
40.00	869	124.50	637	199.80	762	291.00	178
41.10	323	125.00	1097	201.20	684	291.80	152
42.10	371	127.10	64360	202.10	569	292.80	540
44.10	646	128.10	5912	202.80	723	293.90	226
44.90	365	129.00	24088	204.00	5948	295.10	194
46.10	286	130.10	1879	205.00	8516	296.00	10430
47.10	675	131.00	282	206.10	32112	297.00	1280
47.80	205	133.10	195	207.10	4096	301.80	338
49.20	1956	134.00	758	208.00	1792	302.90	507
50.10	11989	135.00	895	208.80	279	303.90	349
51.10	49216	136.00	808	210.10	395	304.90	261
52.10	1694	137.10	954	211.10	1799	307.50	287
55.20	636	138.00	343	211.80	222	308.90	286
56.00	1787	140.10	485	213.20	242	314.10	514
57.00	4354	141.00	3275	216.00	1131	314.80	689
61.10	905	142.00	675	217.00	9058	316.00	565
62.00	761	142.90	687	217.90	858	317.20	201
63.20	2453	145.90	523	221.00	7668	321.00	178
64.10	399	147.10	1497	221.60	1670	323.00	2275
65.00	851	148.00	3796	222.20	1019	324.00	419
67.10	157	149.10	581	223.10	1607	327.00	490
68.30	1164	150.20	324	224.00	17552	327.90	160
69.00	63624	150.90	225	225.10	4155	333.10	284
69.90	345	152.20	326	226.10	527	333.90	1609
71.10	163	152.80	767	227.00	8275	334.90	325
71.70	223	154.10	702	227.90	399	341.00	239
73.00	613	154.90	1606	229.00	1006	345.60	266
74.10	5857	156.10	2960	232.00	180	346.20	416
75.10	8112	156.80	277	234.10	460	349.70	150
76.00	2466	157.30	544	235.20	292	352.10	1322
77.10	67888	158.20	558	236.00	515	353.00	1156
78.10	4315	158.90	182	236.80	370	354.10	915
79.10	3164	160.00	494	237.10	343	354.70	248
80.00	3452	161.00	2279	238.80	479	360.20	168
81.10	4796	162.00	620	240.00	299	364.90	3478
82.00	694	165.00	1791	240.70	227	366.00	1412
83.10	682	165.90	624	242.10	1004	372.00	1074

83.90	2216	167.00	6952	243.10	1153	372.90	396
85.00	1259	168.00	3812	244.10	12224	377.00	179
86.00	2616	168.90	425	245.00	1133	381.70	295
87.10	346	170.10	167	245.90	2797	382.90	303
87.90	734	170.90	292	246.90	706	384.10	254
91.00	1077	171.50	403	248.00	282	390.00	480
92.00	1910	172.20	487	249.00	260	391.00	299
93.00	8525	172.90	854	249.90	220	392.00	366
94.10	755	174.00	1500	252.00	373	395.30	167
95.20	589	175.10	2819	254.00	627	402.00	468
96.00	470	175.90	1420	255.00	72336	402.90	533
98.00	5256	176.90	1267	256.00	8880	403.90	358
99.10	4988	177.60	198	256.90	1111	414.80	314
101.00	2201	178.20	514	258.00	3683	415.70	240
103.00	674	179.00	6554	258.80	326	420.90	277
104.00	1654	180.10	3718	259.10	343	421.20	308
105.00	1827	181.10	1643	260.00	344	422.00	567
106.10	551	182.10	513	261.10	306	423.10	5631
107.10	17736	184.00	644	265.00	922	424.00	1356
108.10	2903	184.90	1724	266.10	177	424.70	178
108.90	485	186.10	16392	267.10	356	425.10	193
110.10	35288	187.00	4414	267.90	209	427.10	443
111.10	3731	188.20	596	270.10	183	434.60	204
112.20	890	189.00	1319	272.10	276	441.00	13318
112.90	212	190.10	254	272.90	2616	442.00	80712
114.90	318	190.90	736	274.00	5638	443.00	16496
116.20	720	191.50	1079	275.00	26152	443.90	2464
117.00	13002	192.10	1623	276.10	4093	444.90	431
118.10	1591	193.00	1497	276.90	2743	502.20	297
120.20	374	194.00	416	277.70	368		
121.30	442	195.00	286	282.00	489		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	69	46864			0.00- 0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	127	51248			10.00- 80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	442	64976			50.00- 0.00	64.54
8.477	8.532	-0.055	199	7983			5.00- 9.00	7.93
8.477	8.532	-0.055	275	25312			10.00- 60.00	25.14
8.477	8.532	-0.055	365	2913			1.00- 0.00	2.89
8.477	8.532	-0.055	441	10444			0.01- 99.99	78.40
8.477	8.532	-0.055	443	13322			15.00- 24.00	20.50

Data File: 1DB22002.D

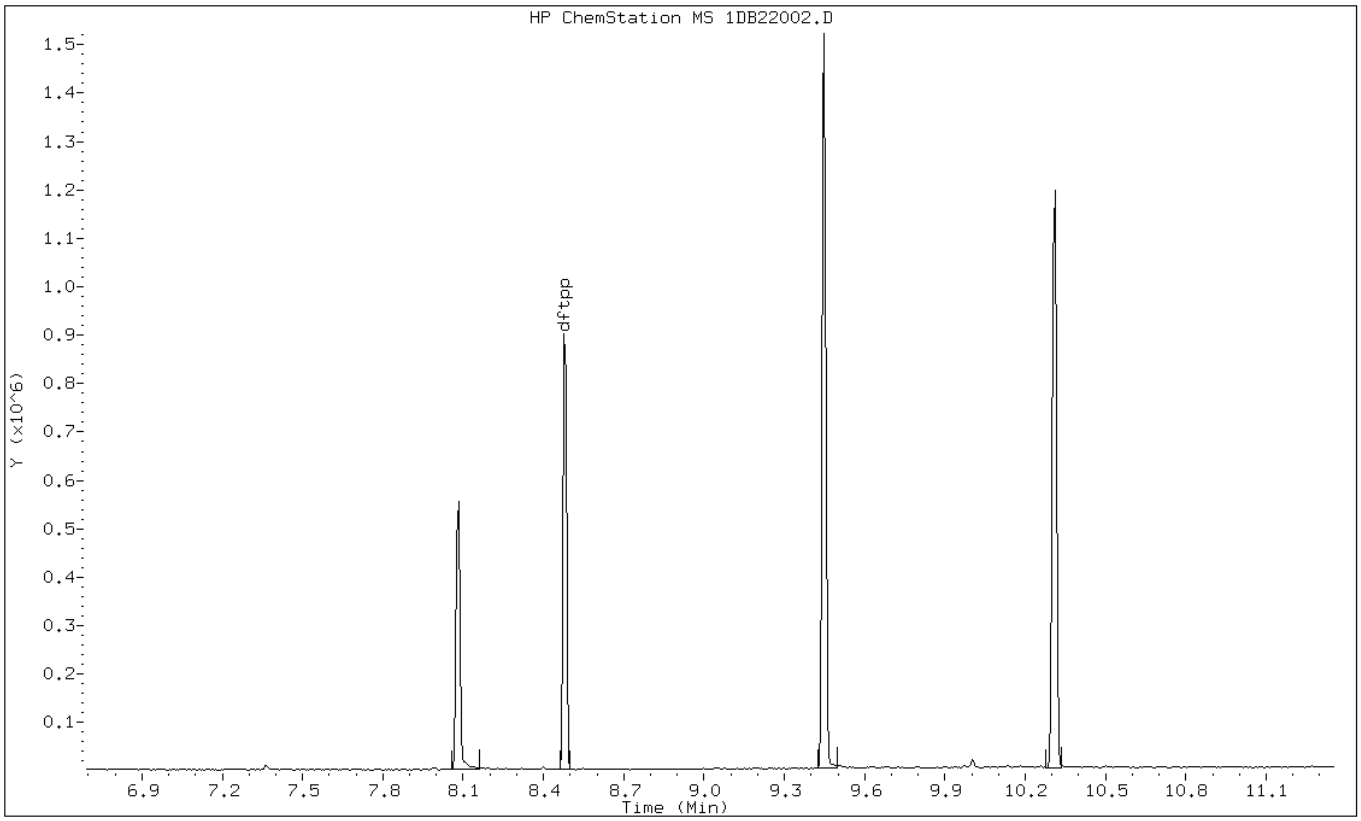
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



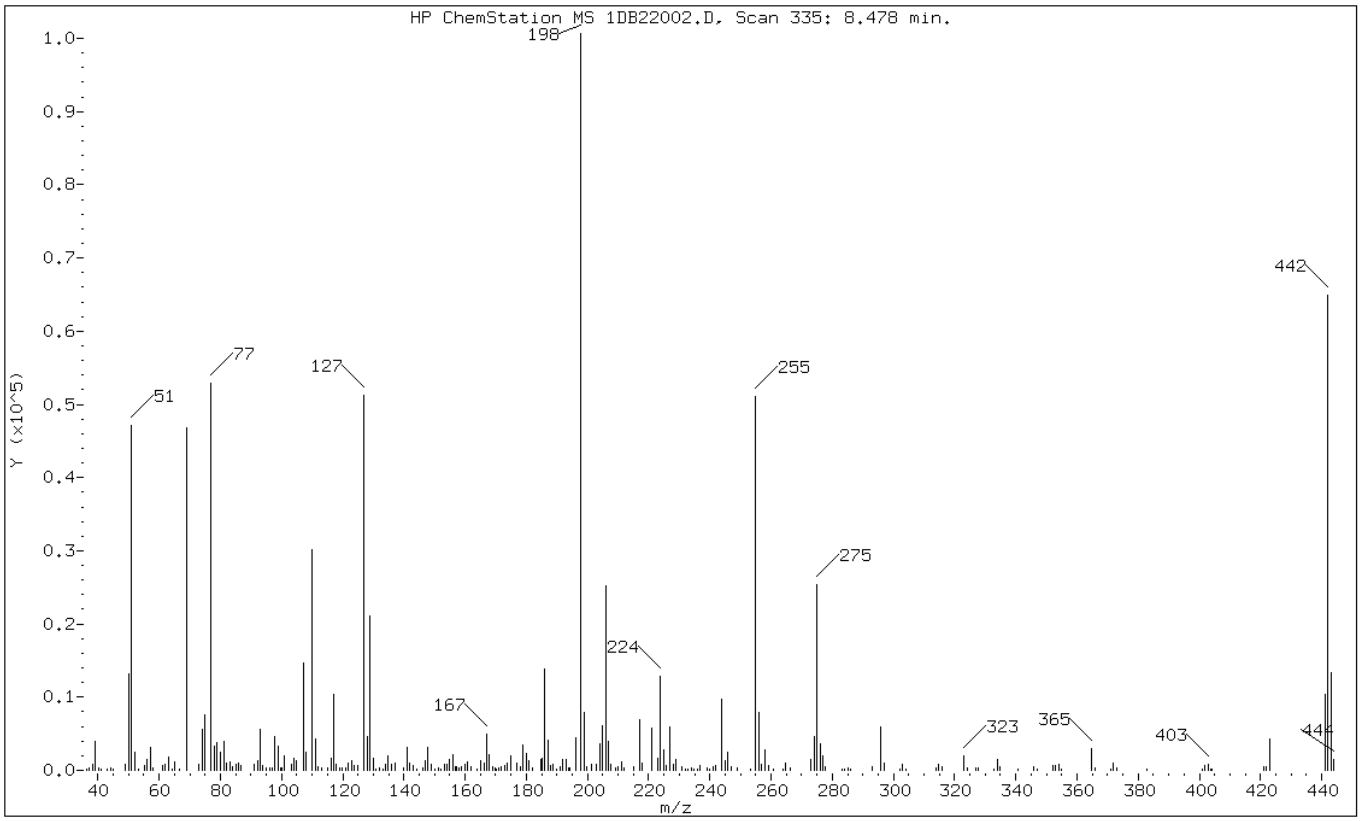
Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
112.90	308	177.90	412	255.90	7928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\1DC14002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 14-MAR-2013 10:30
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.440	8.532	-0.092	198	117104			50.00- 0.00	100.00
8.440	8.532	-0.092	51	47968			10.00- 80.00	40.96
8.440	8.532	-0.092	68	0	0.0	0.0	0.00- 2.00	0.00
8.440	8.532	-0.092	69	48584			0.00- 0.00	41.49
8.440	8.532	-0.092	70	438			0.00- 2.00	0.90
8.440	8.532	-0.092	127	59176			10.00- 80.00	50.53
8.440	8.532	-0.092	197	0	0.0	0.0	0.00- 2.00	0.00
8.440	8.532	-0.092	442	96024			50.00- 0.00	82.00
8.440	8.532	-0.092	199	8216			5.00- 9.00	7.02
8.440	8.532	-0.092	275	31888			10.00- 60.00	27.23
8.440	8.532	-0.092	365	3464			1.00- 0.00	2.96
8.440	8.532	-0.092	441	15331			0.01- 99.99	84.50
8.440	8.532	-0.092	443	18144			15.00- 24.00	18.90

Data File: 1DC14002.D

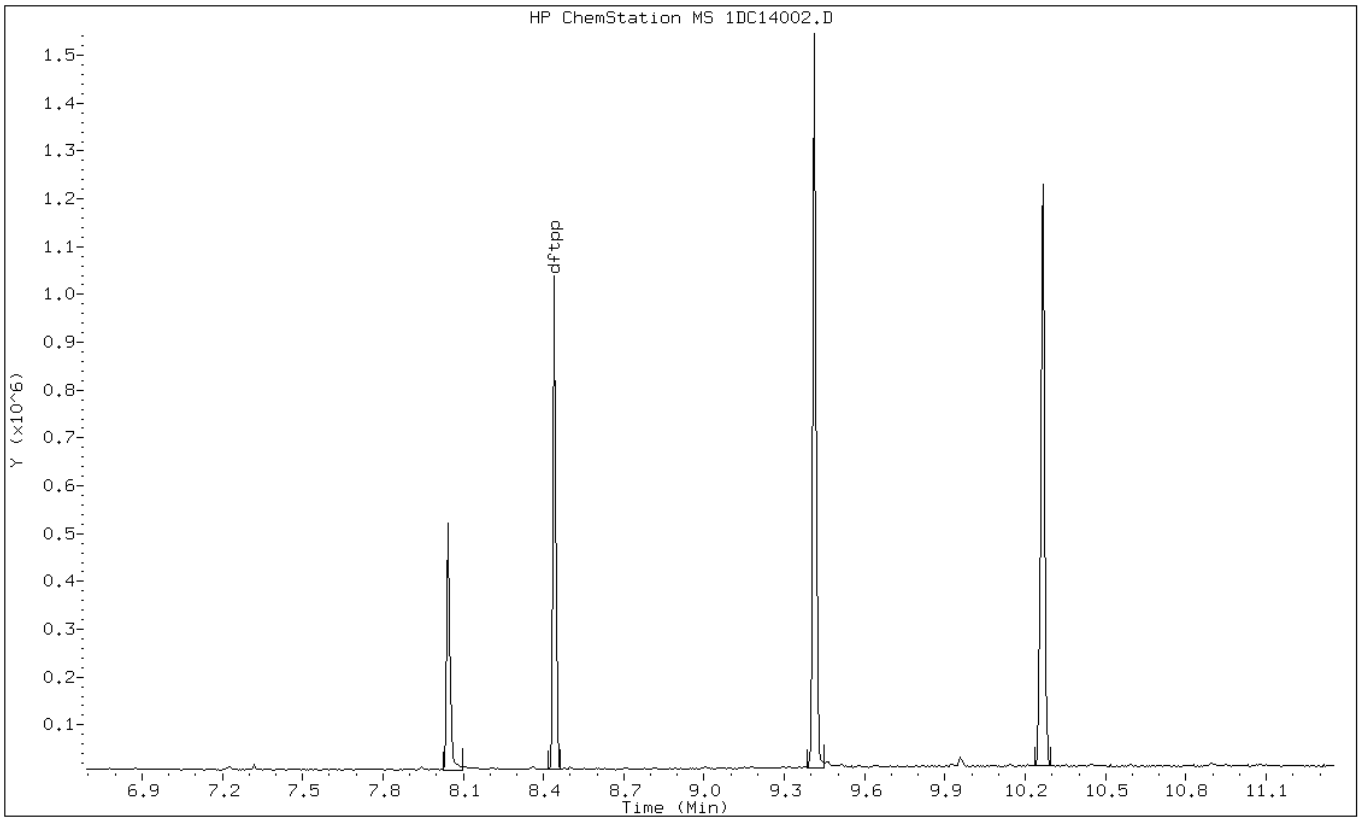
Date: 14-MAR-2013 10:30

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



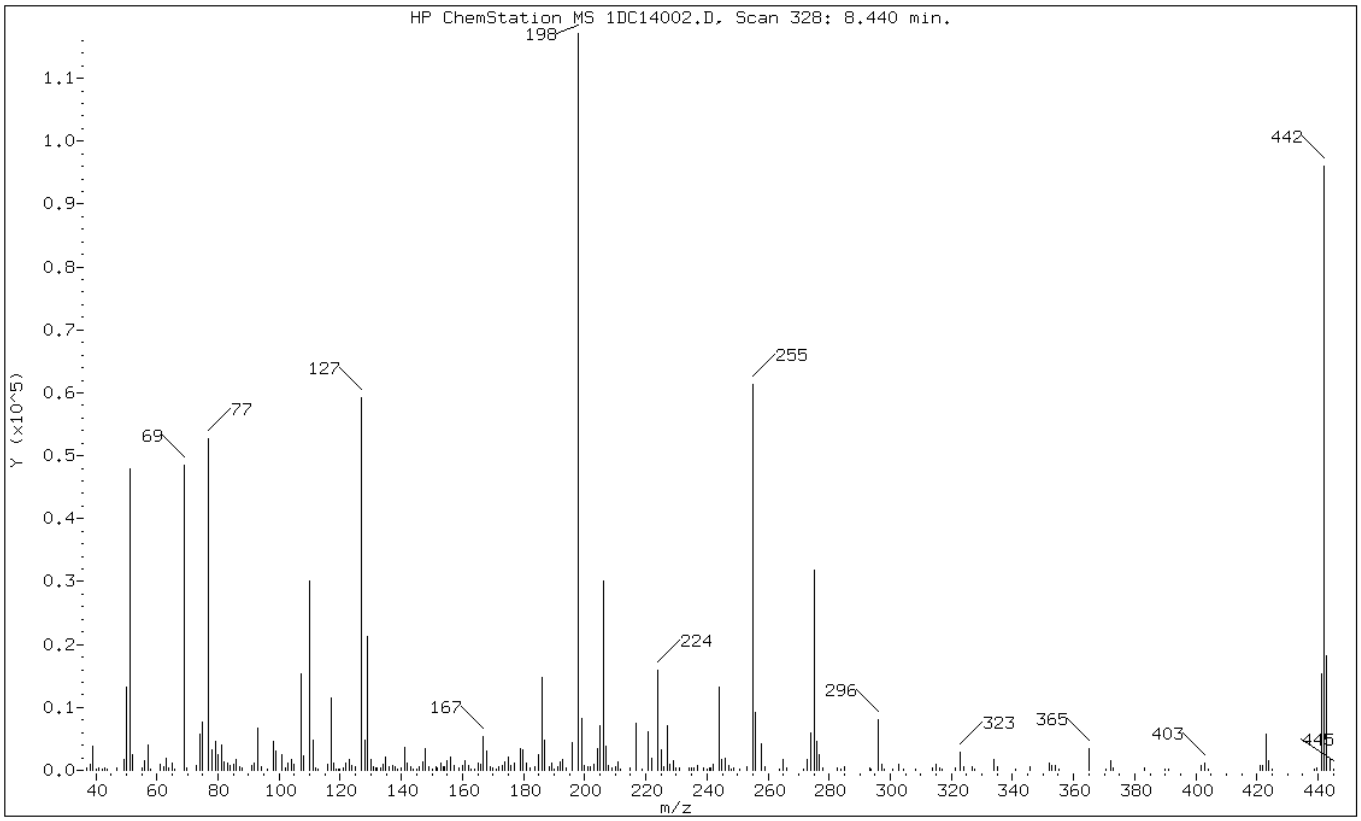
Data File: 1DC14002.D

Date: 14-MAR-2013 10:30

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	40.96
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.49
70	Less than 2.00% of mass 69	0.37 (0.90)
127	10.00 - 80.00% of mass 198	50.53
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	82.00
199	5.00 - 9.00% of mass 198	7.02
275	10.00 - 60.00% of mass 198	27.23
365	Greater than 1.00% of mass 198	2.96
441	Present, but less than mass 443	13.09
443	15.00 - 24.00% of mass 442	15.49 (18.90)

Data File: 1DC14002.D

Date: 14-MAR-2013 10:30

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D031413.b\1DC14002.D
Spectrum: HP ChemStation MS 1DC14002.D, Scan 328: 8.440 min.
Location of Maximum: 197.90
Number of points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	425	119.40	164	182.20	414	263.90	162
38.10	947	119.90	204	183.80	653	264.90	1702
39.00	3801	121.10	326	185.00	2545	266.00	331
40.10	282	121.90	1225	185.90	14768	271.60	239
41.10	304	122.90	1652	187.00	4839	272.90	1744
42.10	177	123.90	776	188.40	624	273.90	5978
43.10	345	125.00	555	189.10	1066	275.00	31888
43.90	237	127.00	59176	190.00	282	276.00	4609
47.00	364	128.00	4696	191.20	660	276.90	2456
49.10	1674	129.00	21256	191.90	1271	278.10	435
50.10	13196	130.00	1742	192.90	1692	282.80	343
51.00	47968	130.90	522	194.10	414	283.70	190
52.10	2577	131.80	342	195.90	4425	285.00	484
55.00	444	132.10	314	197.90	117104	293.10	479
56.10	1549	133.10	307	198.90	8216	293.60	263
57.00	4051	133.90	894	200.00	752	295.90	8036
57.90	186	134.90	2072	201.20	602	297.10	1017
61.00	925	136.00	653	201.70	504	298.10	199
62.10	651	137.00	848	202.90	941	300.80	151
63.00	1917	137.90	594	204.00	3371	302.90	1003
63.90	300	138.90	264	205.00	7120	304.30	171
65.00	1223	139.90	426	206.00	30000	308.10	214
65.90	212	140.90	3555	207.10	3929	313.90	430
69.00	48584	142.00	1062	207.90	858	314.80	1022
69.90	438	142.90	550	208.80	405	316.00	414
73.00	743	143.90	174	210.00	539	317.00	151
74.00	5734	144.90	217	210.70	1264	321.20	319
75.00	7752	146.00	507	211.80	238	323.00	2907
77.00	52784	146.90	1327	214.70	355	324.20	504
78.00	3177	147.90	3472	216.90	7518	326.80	486
79.00	4566	149.00	543	218.90	243	327.70	155
80.00	2557	150.20	184	220.90	6095	334.00	1761
81.00	4077	151.40	626	221.80	1890	334.90	617
82.10	1390	151.90	449	224.00	15875	341.10	243
83.00	1153	152.90	1064	225.00	3215	345.80	608
83.90	711	153.90	641	226.00	645	352.00	1160
85.00	969	154.10	654	226.90	7027	353.00	687
85.90	1641	155.00	1462	227.90	993	354.00	726
86.90	495	155.90	2055	229.10	1535	355.10	151
87.90	349	157.10	794	229.80	341	364.90	3464

91.00	837	158.90	393	231.10	404	370.70	208
92.00	1231	160.00	793	234.00	472	372.00	1467
93.00	6778	161.00	1557	235.00	453	373.00	349
94.00	550	161.90	689	235.90	312	383.00	369
96.00	266	162.90	230	237.00	732	389.80	158
98.00	4515	164.00	248	238.90	442	391.10	253
99.00	3057	165.00	1192	239.90	252	401.90	707
100.90	2398	165.90	914	240.80	446	403.10	1136
102.10	291	166.90	5290	241.20	418	404.20	172
102.90	1212	167.90	3087	241.90	908	420.90	732
104.00	1788	169.00	496	243.90	13197	421.90	725
104.90	1034	169.90	328	244.90	1700	423.00	5676
107.00	15286	171.10	222	245.90	1920	424.00	1460
107.90	2364	171.90	612	247.00	738	424.90	153
109.90	30168	172.90	800	247.80	189	438.70	234
111.00	4701	173.90	1284	248.90	352	439.60	291
112.10	422	174.90	2085	250.70	167	441.00	15331
112.90	192	175.90	834	253.10	573	442.00	96024
116.00	864	176.90	1096	254.90	61360	442.90	18144
117.00	11441	179.00	3517	256.00	9125	443.90	1866
117.90	1087	179.90	3185	258.00	4284	445.10	208
118.80	223	180.90	1135	258.90	613		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

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

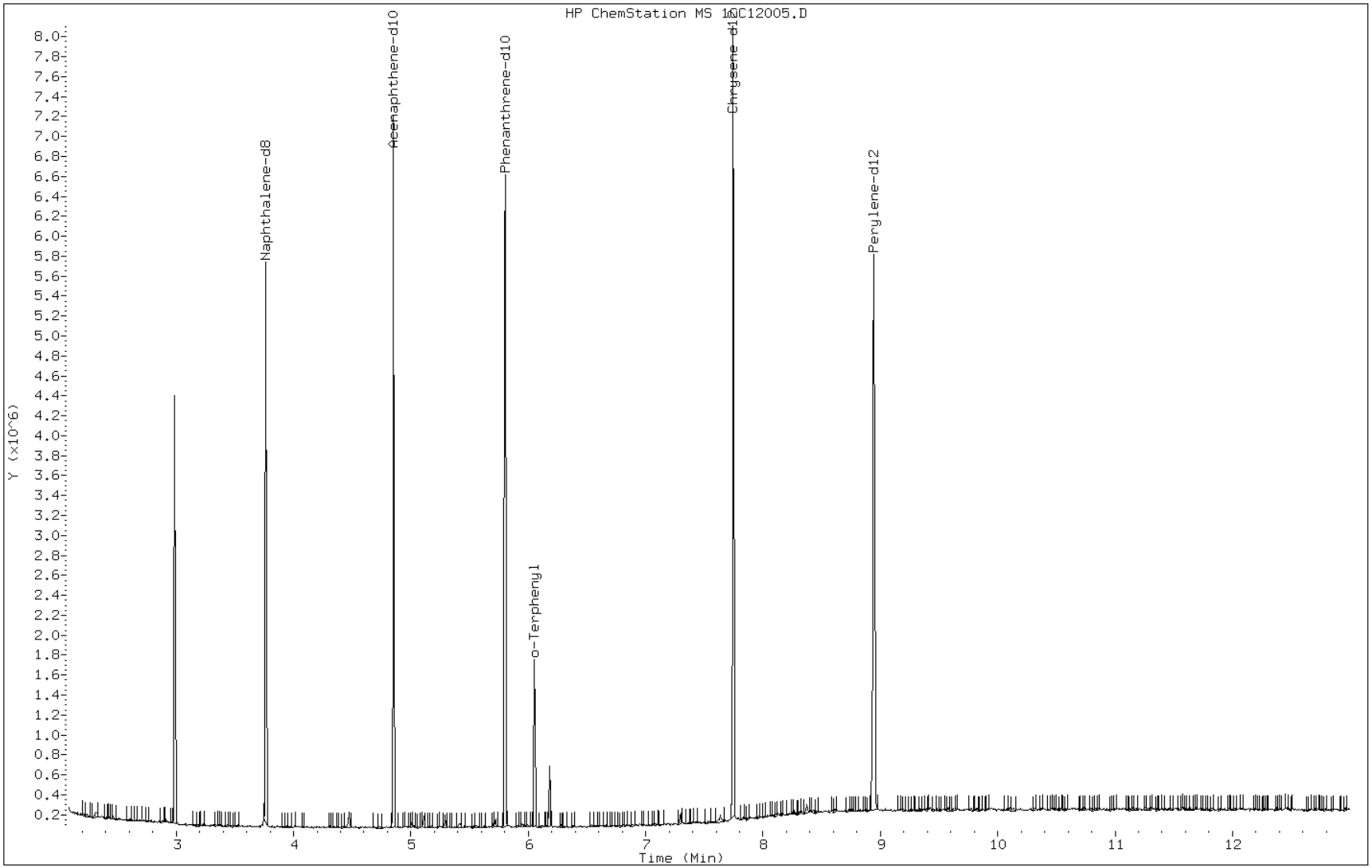
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.763	3.763	(1.000)	1140906	40.0000	
*	6 Acenaphthene-d10	164	4.851	4.851	(1.000)	886964	40.0000	
*	10 Phenanthrene-d10	188	5.804	5.804	(1.000)	1760135	40.0000	
$	14 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.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: MB 660-135265/1-A

Matrix: Solid | Lab File ID: 1AC13006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/11/2013 13:49

Sample wt/vol: 15.09(g) | Date Analyzed: 03/13/2013 11:27

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.: 135452 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	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	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
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	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13006.D
Lab Smp Id: MB 660-135265/1-A
Inj Date : 13-MAR-2013 11:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-135265/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	15.090	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

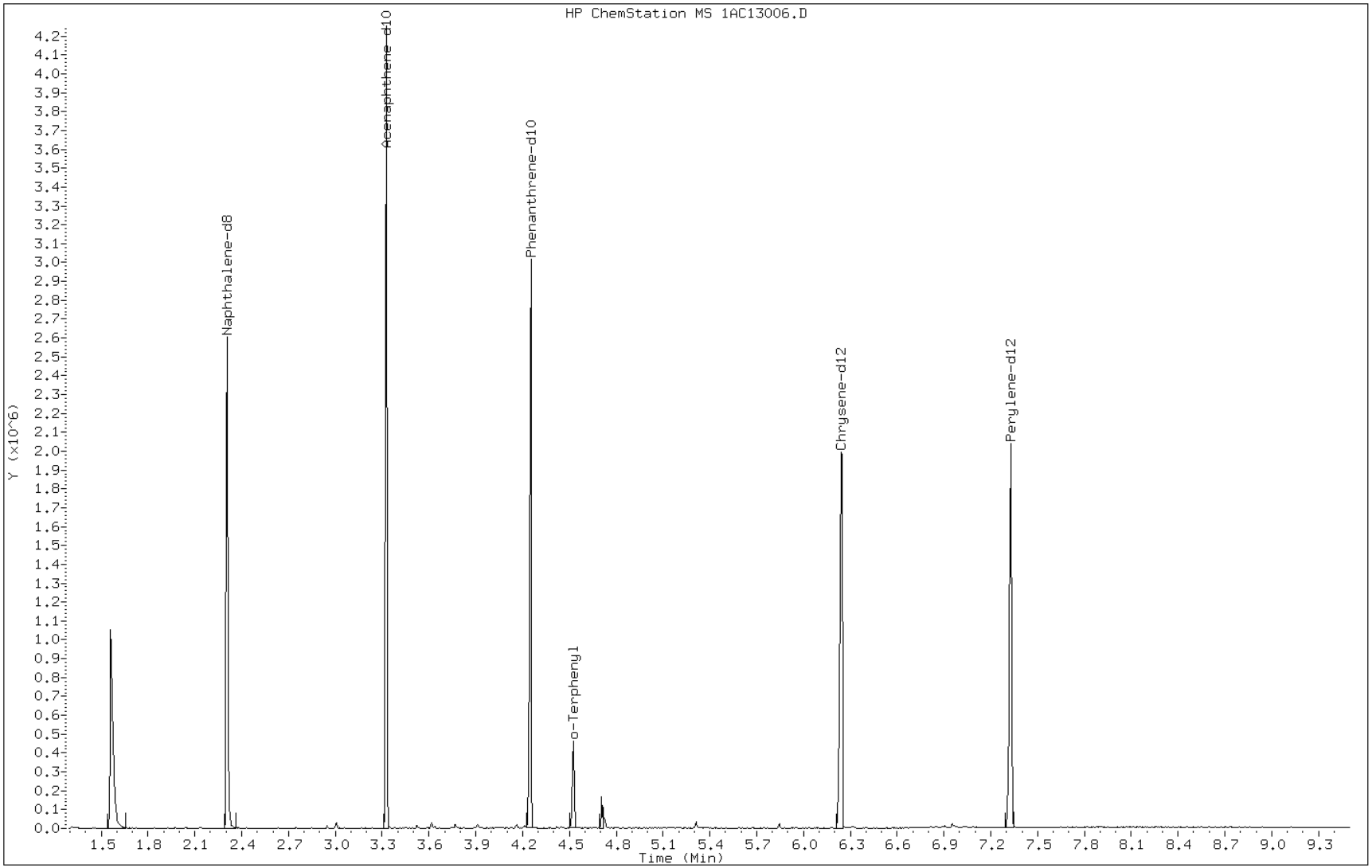
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.308	2.306	(1.000)	698730	40.0000	
* 6 Acenaphthene-d10	164	3.328	3.326	(1.000)	558759	40.0000	
* 10 Phenanthrene-d10	188	4.252	4.250	(1.000)	797352	40.0000	
$ 14 o-Terphenyl	230	4.525	4.528	(1.064)	59706	5.14604	341.0235
* 18 Chrysene-d12	240	6.245	6.243	(1.000)	685959	40.0000	
* 23 Perylene-d12	264	7.330	7.327	(1.000)	723497	40.0000	

Data File: 1AC13006.D

Date: 13-MAR-2013 11:27

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-135265/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: MB 660-135343/1-A

Matrix: Solid | Lab File ID: 1CC14005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/13/2013 12:00

Sample wt/vol: 15.41(g) | Date Analyzed: 03/14/2013 12:12

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.: 135453 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14005.D
Lab Smp Id: mb 660-135343/1-a
Inj Date : 14-MAR-2013 12:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135343/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 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	15.410	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

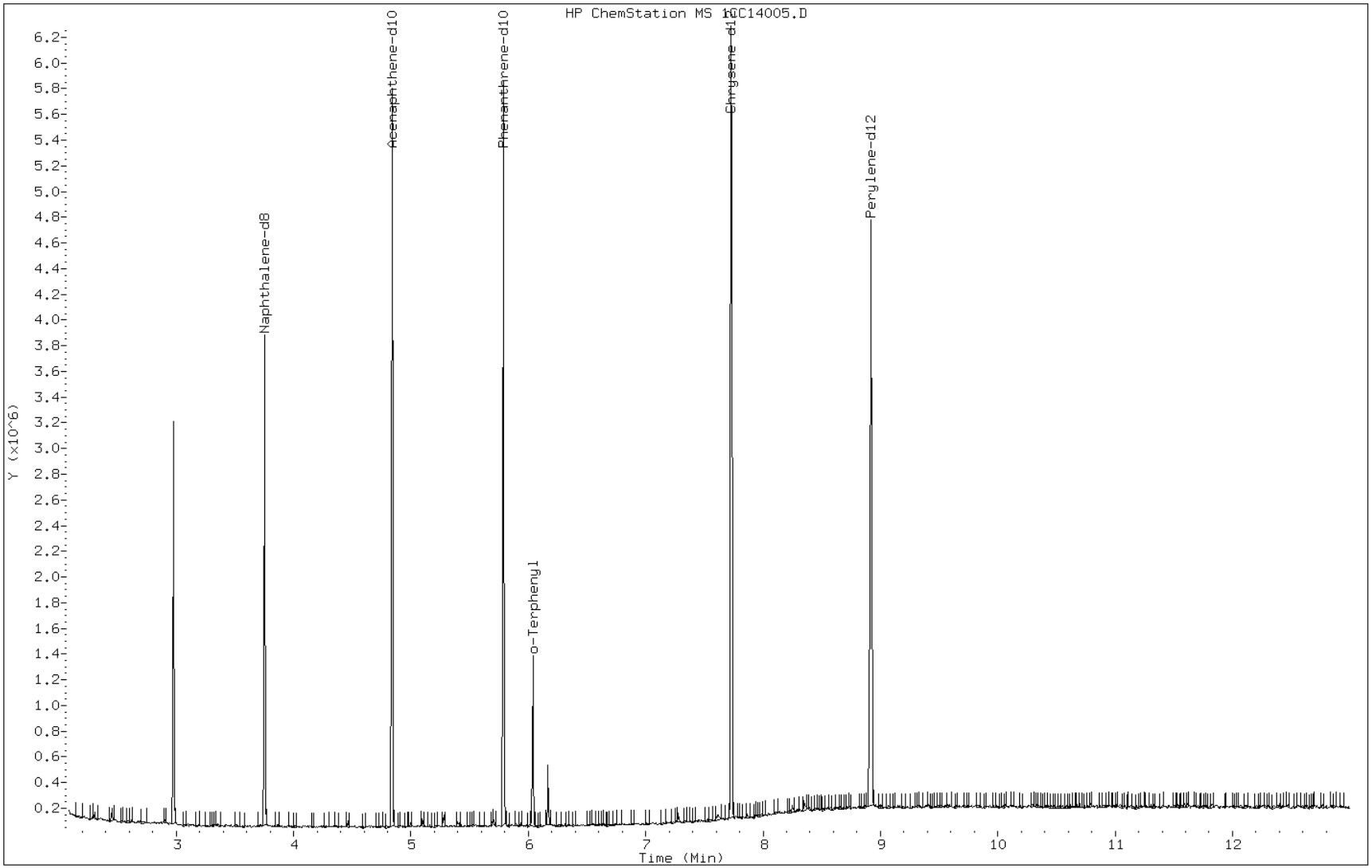
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.751	3.751	(1.000)	884986	40.0000	
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	692456	40.0000	
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1356649	40.0000	
$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	161934	7.90574	513.0267
* 18 Chrysene-d12	240	7.727	7.733	(1.000)	1693605	40.0000	
* 23 Perylene-d12	264	8.921	8.927	(1.000)	1765518	40.0000	

Data File: 1CC14005.D

Date: 14-MAR-2013 12:12

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135343/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

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)	CONCENTRATIONS 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

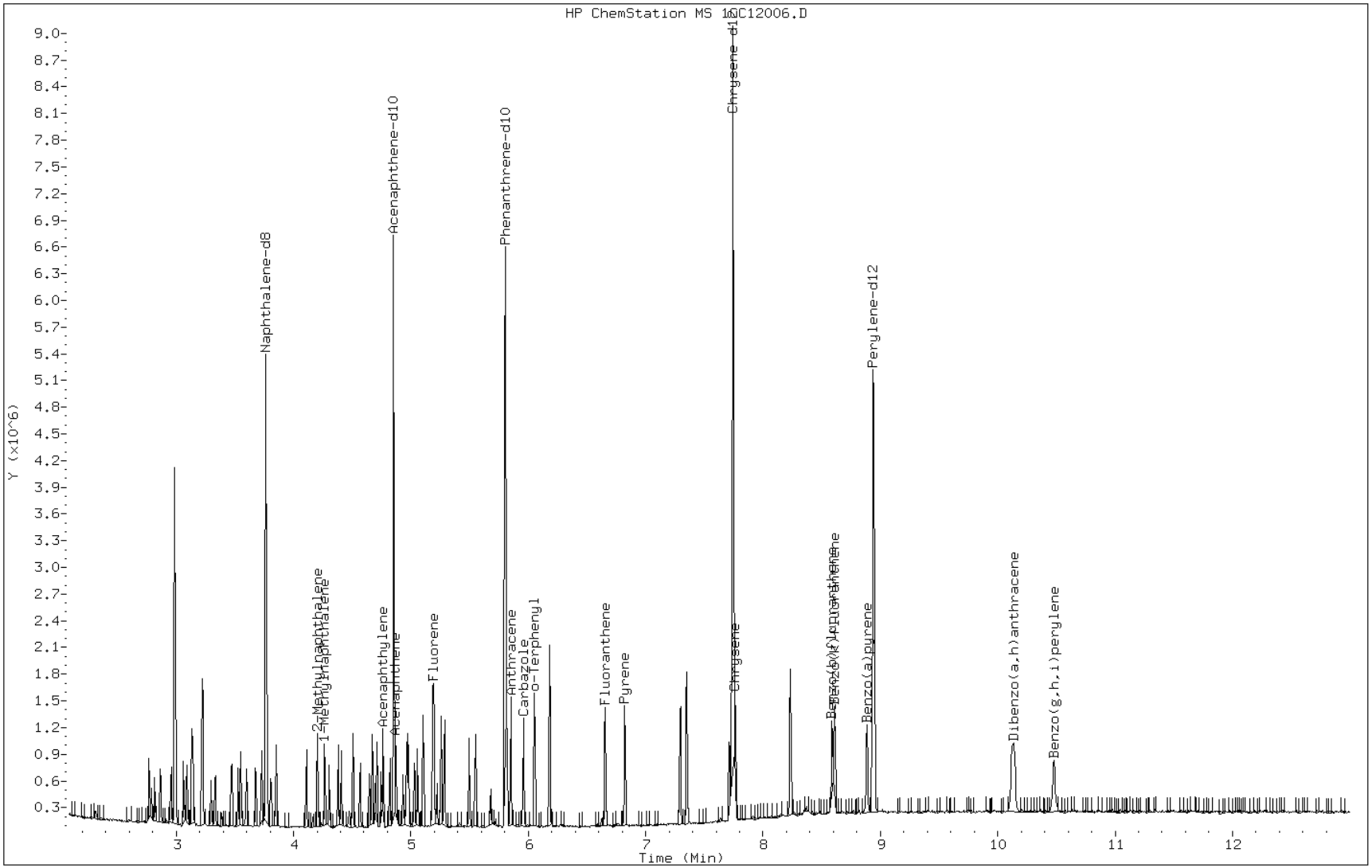
M - Compound response manually integrated.

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

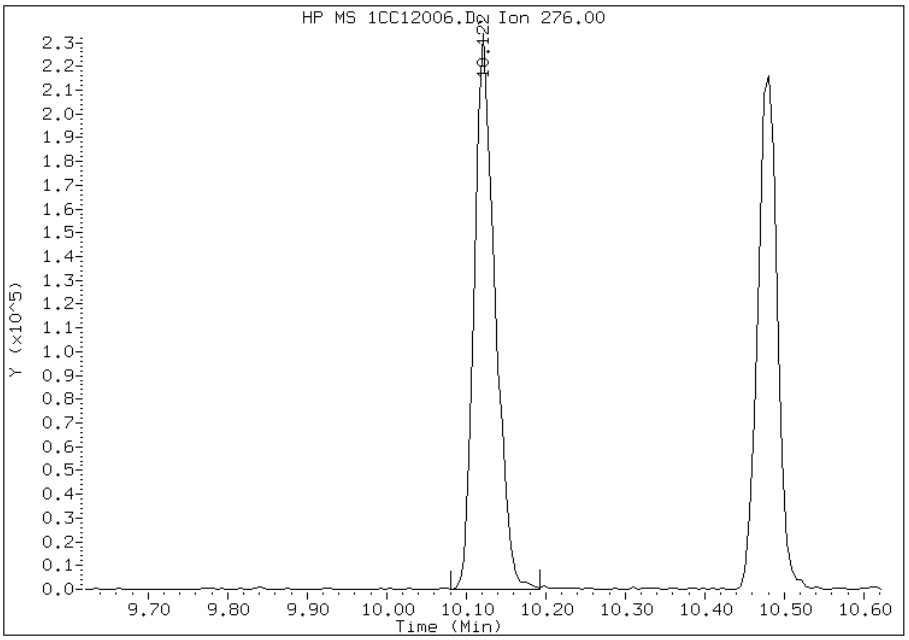
Processing Integration Results

RT: 10.12

Response: 421565

Amount: 9

Conc: 601



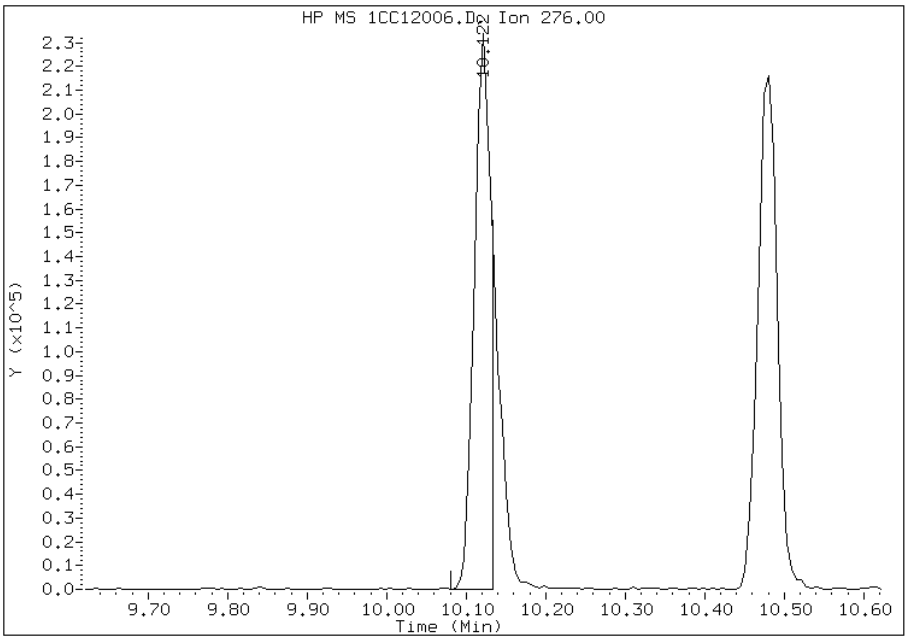
Manual Integration Results

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.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: LCS 660-135265/2-A

Matrix: Solid | Lab File ID: 1AC13007.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/11/2013 13:49

Sample wt/vol: 15.44(g) | Date Analyzed: 03/13/2013 11:42

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

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

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

Analysis Batch No.: 135452 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	349		97	19
208-96-8	Acenaphthylene	355		39	4.9
120-12-7	Anthracene	409		8.2	4.1
56-55-3	Benzo[a]anthracene	470		7.8	3.8
50-32-8	Benzo[a]pyrene	404		10	5.1
205-99-2	Benzo[b]fluoranthene	403		12	5.9
191-24-2	Benzo[g,h,i]perylene	423		19	4.3
207-08-9	Benzo[k]fluoranthene	461		7.8	3.5
218-01-9	Chrysene	425		8.7	4.4
53-70-3	Dibenz(a,h)anthracene	443		19	4.0
206-44-0	Fluoranthene	477		19	3.9
86-73-7	Fluorene	336		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	437		19	6.9
90-12-0	1-Methylnaphthalene	433		39	4.3
91-57-6	2-Methylnaphthalene	408		39	6.9
91-20-3	Naphthalene	400		39	4.3
85-01-8	Phenanthrene	403		7.8	3.8
129-00-0	Pyrene	406		19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13007.D
Lab Smp Id: LCS 660-135265/2-A
Inj Date : 13-MAR-2013 11:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-135265/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	15.440	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	2.306	2.306	(1.000)	637144	40.0000	
* 6	Acenaphthene-d10	164	3.327	3.326	(1.000)	471613	40.0000	
* 10	Phenanthrene-d10	188	4.251	4.250	(1.000)	623032	40.0000	
$ 14	o-Terphenyl	230	4.523	4.528	(1.064)	50155	5.53235	358.3127
* 18	Chrysene-d12	240	6.244	6.243	(1.000)	621253	40.0000	
* 23	Perylene-d12	264	7.328	7.327	(1.000)	644607	40.0000	
2	Naphthalene	128	2.317	2.316	(1.005)	94773	6.17302	399.8067
3	2-Methylnaphthalene	141	2.718	2.722	(1.178)	49978	6.30583	408.4088
4	1-Methylnaphthalene	142	2.771	2.776	(1.201)	59004	6.68543	432.9939
5	Acenaphthylene	152	3.241	3.241	(0.974)	96614	5.48652	355.3445
7	Acenaphthene	154	3.343	3.347	(1.005)	54878	5.39337	349.3114
9	Fluorene	166	3.653	3.652	(1.098)	66539	5.18125	335.5732
11	Phenanthrene	178	4.262	4.266	(1.002)	96348	6.22143	402.9422
12	Anthracene	178	4.299	4.298	(1.011)	95054	6.31892	409.2563

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.454	4.453	(1.048)	80145	6.03540	390.8938
15 Fluoranthene	202	5.111	5.116	(1.202)	114107	7.36921	477.2807
16 Pyrene	202	5.277	5.276	(0.845)	114204	6.26729	405.9128
17 Benzo(a)anthracene	228	6.233	6.232	(0.998)	134504	7.25084	469.6138
19 Chrysene	228	6.260	6.264	(1.003)	108973	6.56844	425.4174
20 Benzo(b)fluoranthene	252	7.050	7.055	(0.962)	101703	6.22389	403.1015
21 Benzo(k)fluoranthene	252	7.066	7.071	(0.964)	116926	7.11238	460.6462
22 Benzo(a)pyrene	252	7.275	7.279	(0.993)	93298	6.23456	403.7925
24 Indeno(1,2,3-cd)pyrene	276	8.028	8.027	(1.095)	86610	6.74618	436.9290(M)
25 Dibenzo(a,h)anthracene	278	8.038	8.038	(1.097)	91468	6.83688	442.8027
26 Benzo(g,h,i)perylene	276	8.209	8.214	(1.120)	89286	6.53869	423.4901

QC Flag Legend

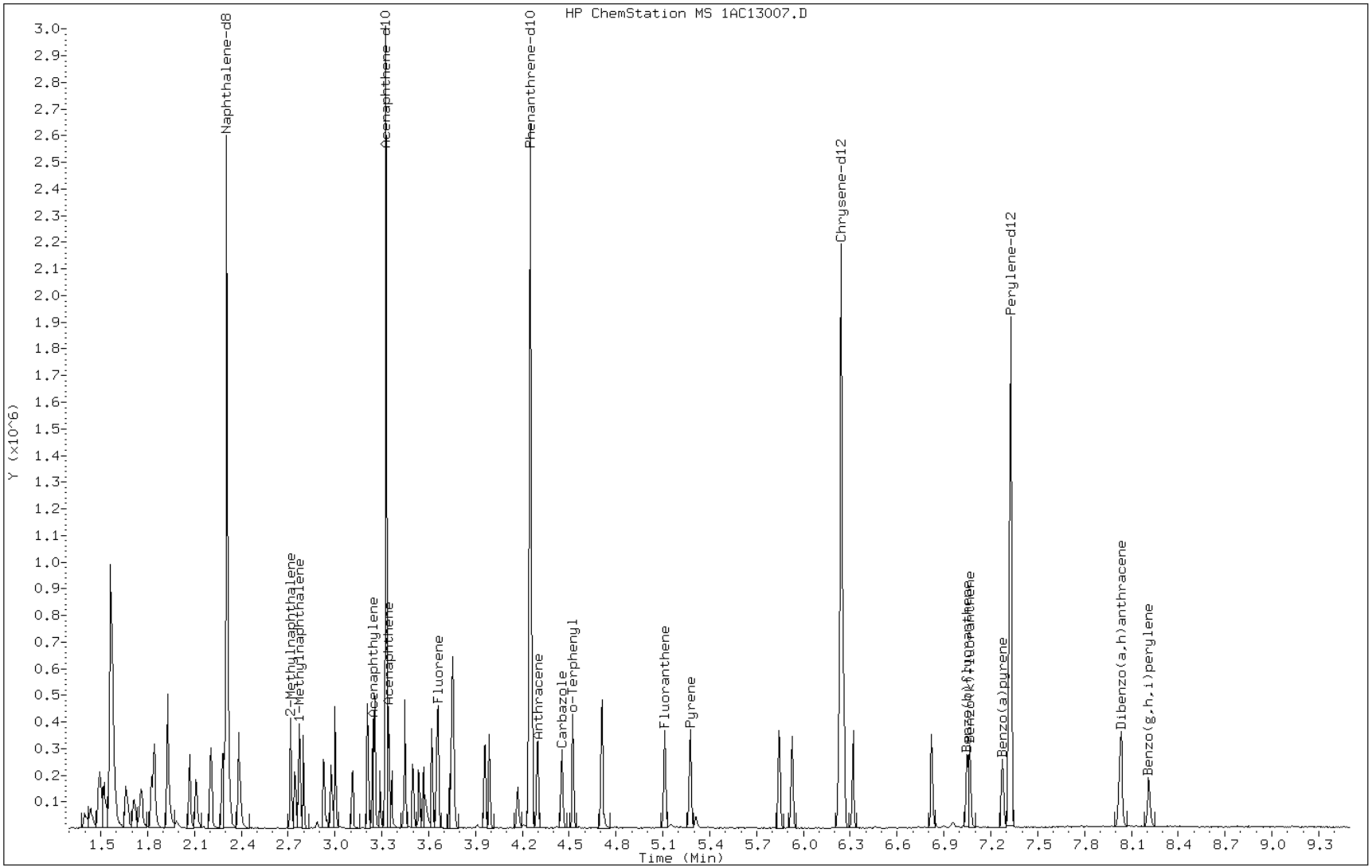
M - Compound response manually integrated.

Data File: 1AC13007.D

Date: 13-MAR-2013 11:42

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-135265/2-A Operator: SCC



Manual Integration Report

Data File: 1AC13007.D
Inj. Date and Time: 13-MAR-2013 11:42
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

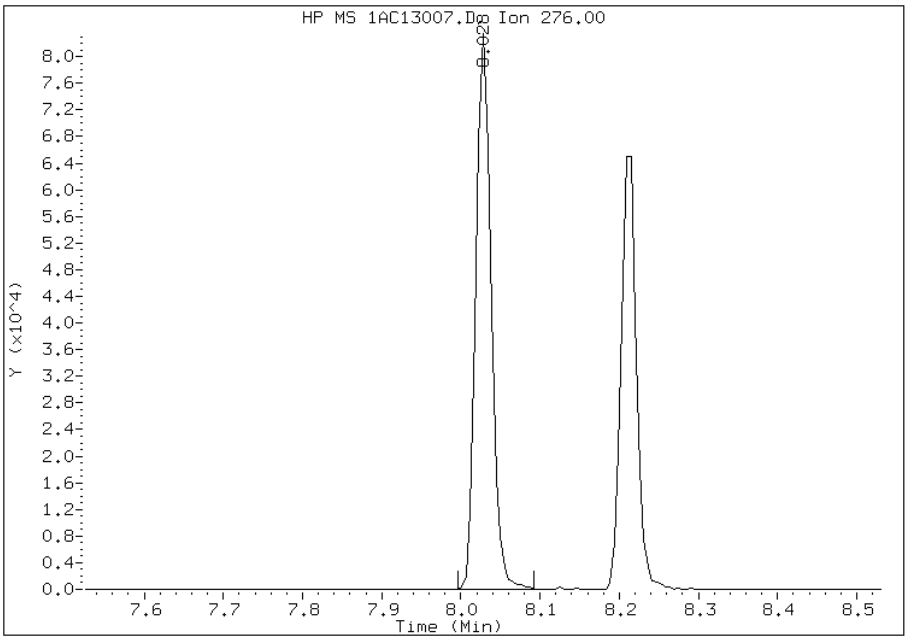
Processing Integration Results

RT: 8.03

Response: 110563

Amount: 9

Conc: 558



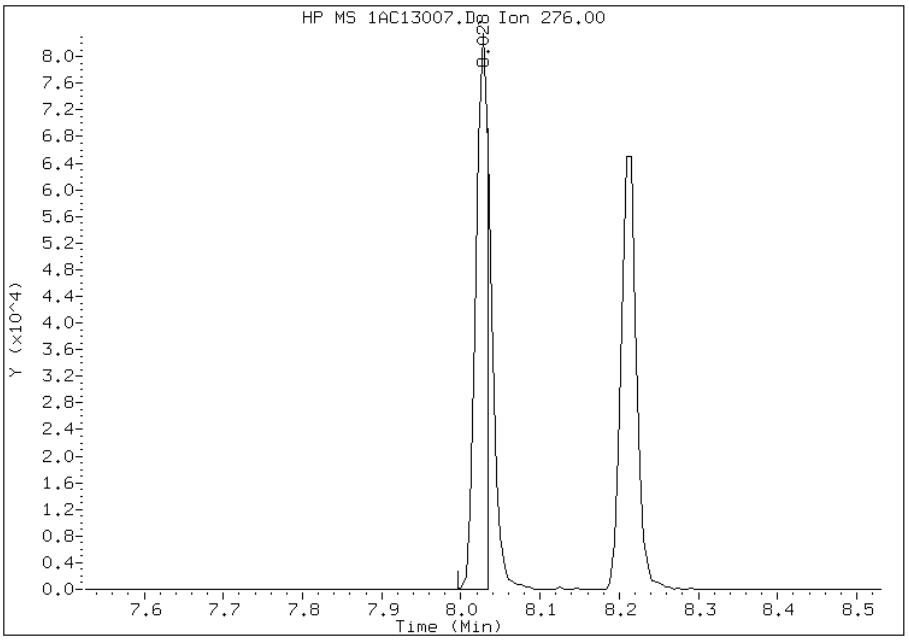
Manual Integration Results

RT: 8.03

Response: 86610

Amount: 7

Conc: 437



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 12:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: LCS 660-135343/2-A

Matrix: Solid | Lab File ID: 1CC14006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/13/2013 12:00

Sample wt/vol: 15.24(g) | Date Analyzed: 03/14/2013 12:30

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.: 135453 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	484		98	20
208-96-8	Acenaphthylene	504		39	4.9
120-12-7	Anthracene	524		8.3	4.1
56-55-3	Benzo[a]anthracene	524		7.9	3.8
50-32-8	Benzo[a]pyrene	477		10	5.1
205-99-2	Benzo[b]fluoranthene	541		12	6.0
191-24-2	Benzo[g,h,i]perylene	487		20	4.3
207-08-9	Benzo[k]fluoranthene	514		7.9	3.5
218-01-9	Chrysene	502		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	513		20	4.0
206-44-0	Fluoranthene	532		20	3.9
86-73-7	Fluorene	524		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	468		20	7.0
90-12-0	1-Methylnaphthalene	542		39	4.3
91-57-6	2-Methylnaphthalene	532		39	7.0
91-20-3	Naphthalene	510		39	4.3
85-01-8	Phenanthrene	499		7.9	3.8
129-00-0	Pyrene	526		20	3.6

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\1C031413.b\1CC14006.D
Lab Smp Id: lcs 660-135343/2-a
Inj Date : 14-MAR-2013 12:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135343/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 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	15.240	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.751	3.751	(1.000)	917299	40.0000	
*	6 Acenaphthene-d10	164	4.839	4.839	(1.000)	727709	40.0000	
*	10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1386401	40.0000	
$	14 o-Terphenyl	230	6.039	6.039	(1.044)	164465	7.85700	515.5511
*	18 Chrysene-d12	240	7.727	7.733	(1.000)	1719095	40.0000	
*	23 Perylene-d12	264	8.921	8.927	(1.000)	1717036	40.0000	
	2 Naphthalene	128	3.763	3.768	(1.003)	185732	7.77747	510.3329
	3 2-Methylnaphthalene	142	4.192	4.192	(1.118)	129195	8.11042	532.1796
	4 1-Methylnaphthalene	142	4.251	4.257	(1.133)	119765	8.25511	541.6741
	5 Acenaphthylene	152	4.751	4.751	(0.982)	225311	7.67959	503.9100
	7 Acenaphthene	154	4.857	4.857	(1.004)	134437	7.37215	483.7368
	9 Fluorene	166	5.180	5.180	(1.070)	184011	7.97880	523.5435
	11 Phenanthrene	178	5.804	5.804	(1.003)	304899	7.60563	499.0570
	12 Anthracene	178	5.839	5.839	(1.009)	312945	7.98199	523.7525

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.945	5.945	(1.027)	294218	8.44199	553.9361
15 Fluoranthene	202	6.639	6.639	(1.147)	356067	8.11052	532.1865
16 Pyrene	202	6.810	6.809	(0.881)	370404	8.01771	526.0966
17 Benzo(a)anthracene	228	7.721	7.721	(0.999)	395924	7.97970	523.6023
19 Chrysene	228	7.751	7.751	(1.003)	379778	7.64854	501.8725
20 Benzo(b)fluoranthene	252	8.568	8.574	(0.960)	370154	8.24901	541.2736
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	360798	7.83794	514.3004
22 Benzo(a)pyrene	252	8.862	8.868	(0.993)	316763	7.26755	476.8734
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.097	(1.131)	292294	7.12877	467.7671(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.121	(1.133)	313789	7.82404	513.3886
26 Benzo(g,h,i)perylene	276	10.439	10.456	(1.170)	318560	7.42710	487.3426

QC Flag Legend

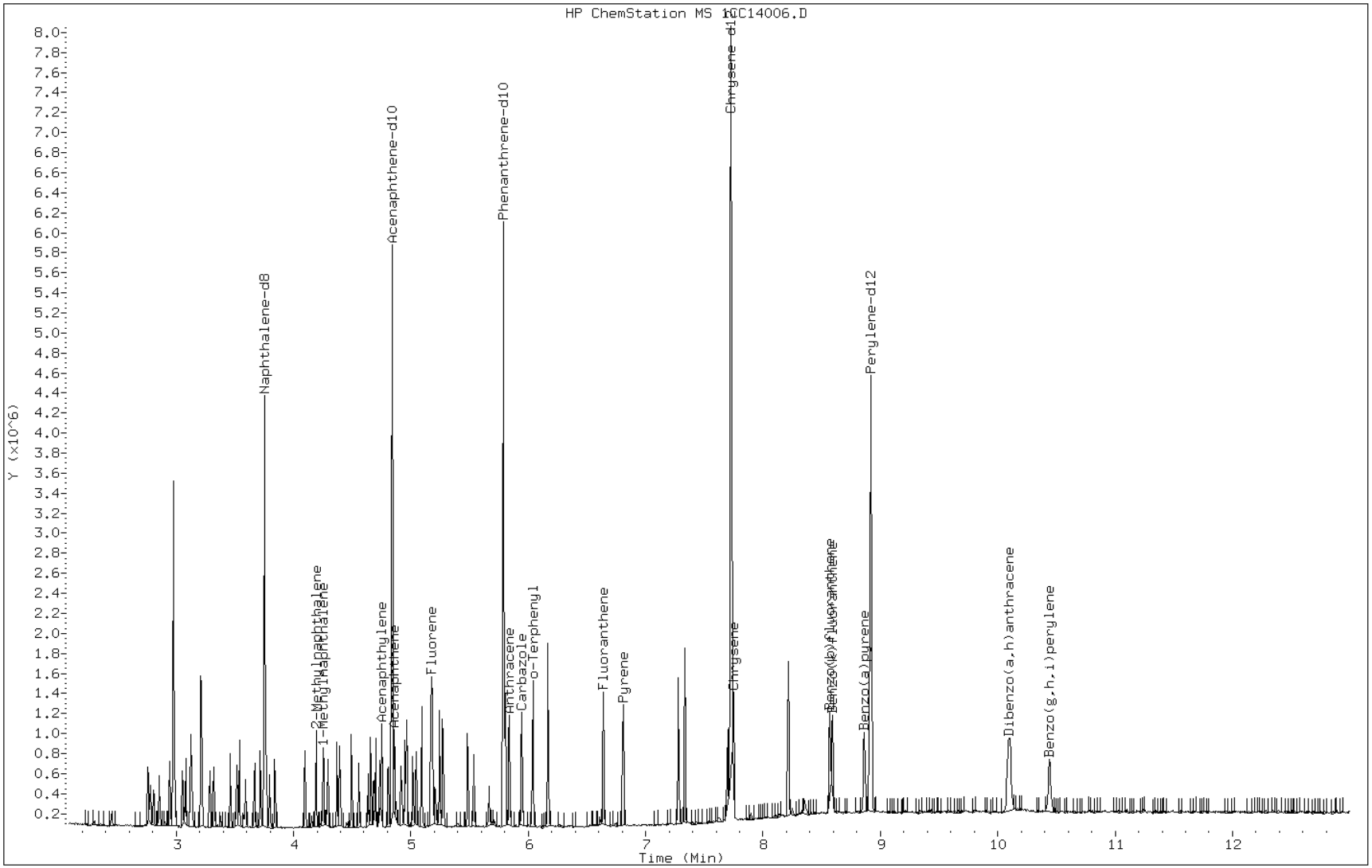
M - Compound response manually integrated.

Data File: 1CC14006.D

Date: 14-MAR-2013 12:30

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135343/2-a Operator: SCC



Manual Integration Report

Data File: 1CC14006.D
Inj. Date and Time: 14-MAR-2013 12:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

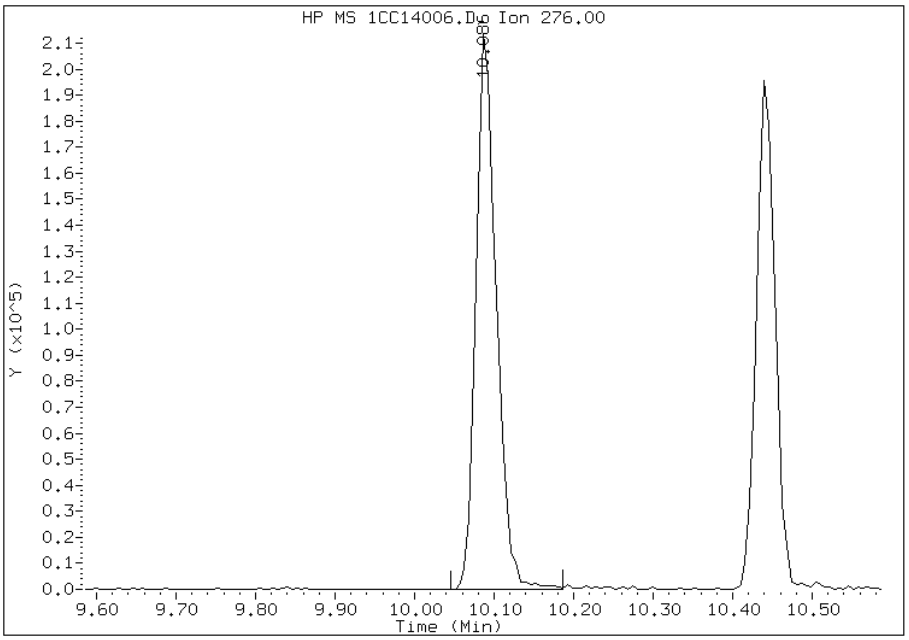
Processing Integration Results

RT: 10.09

Response: 377182

Amount: 9

Conc: 604



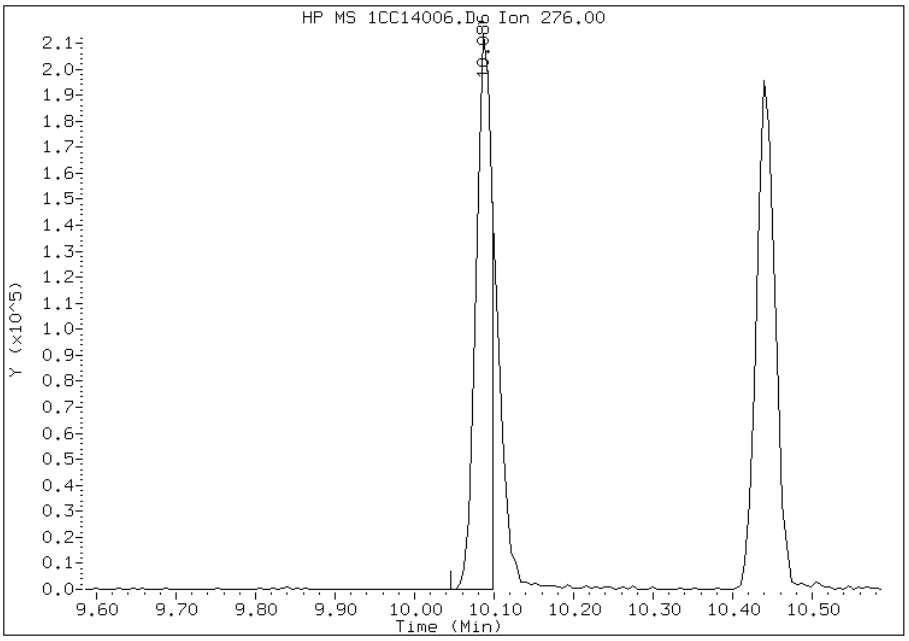
Manual Integration Results

RT: 10.09

Response: 292294

Amount: 7

Conc: 468



Manually Integrated By: cantins
Modification Date: 14-Mar-2013 12:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: 680-88065-A-5-B MS

Matrix: Solid | Lab File ID: 1CC12008.D

Analysis Method: 8270C LL | Date Collected:

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)	CONCENTRATIONS 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

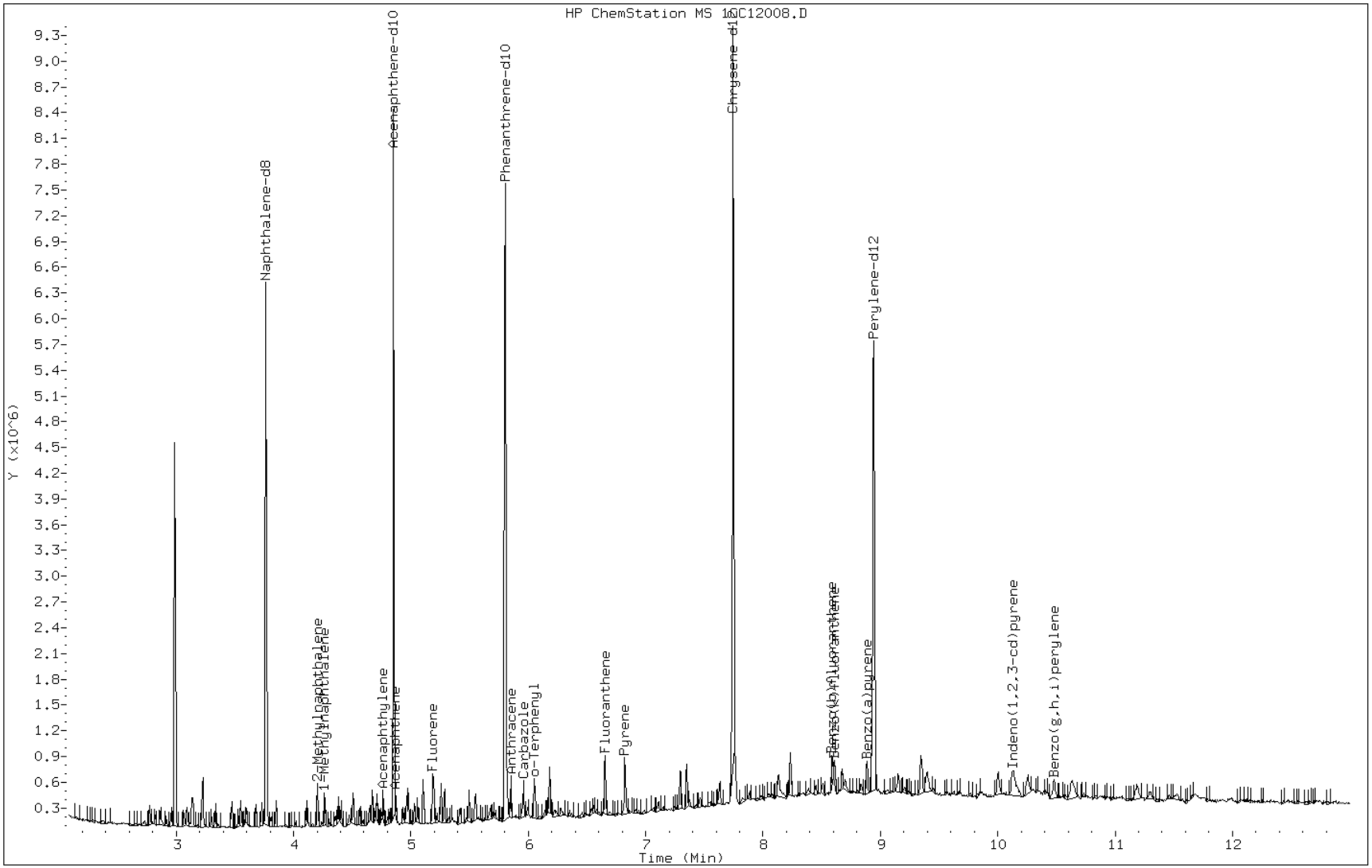
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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

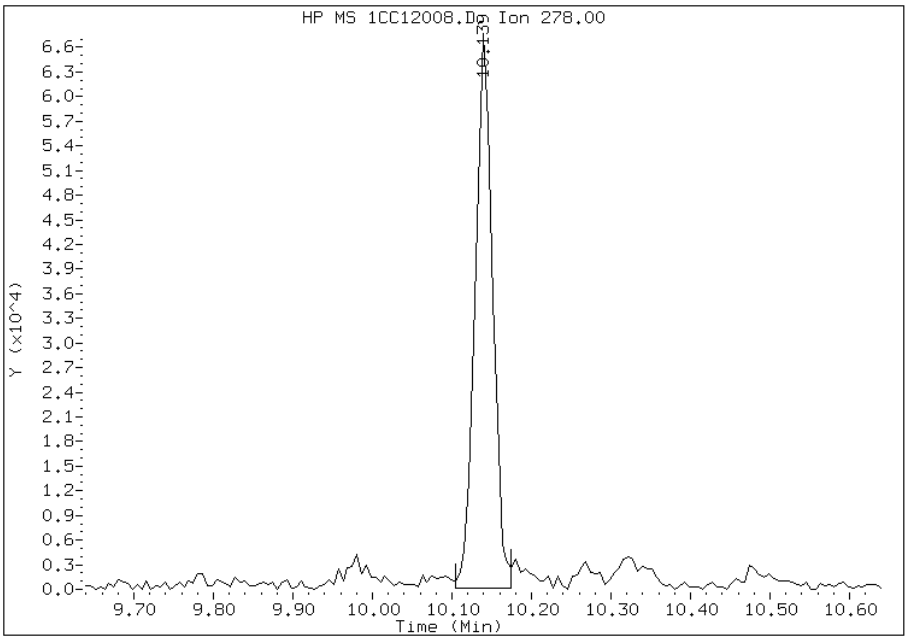
Processing Integration Results

RT: 10.14

Response: 102859

Amount: 2

Conc: 537



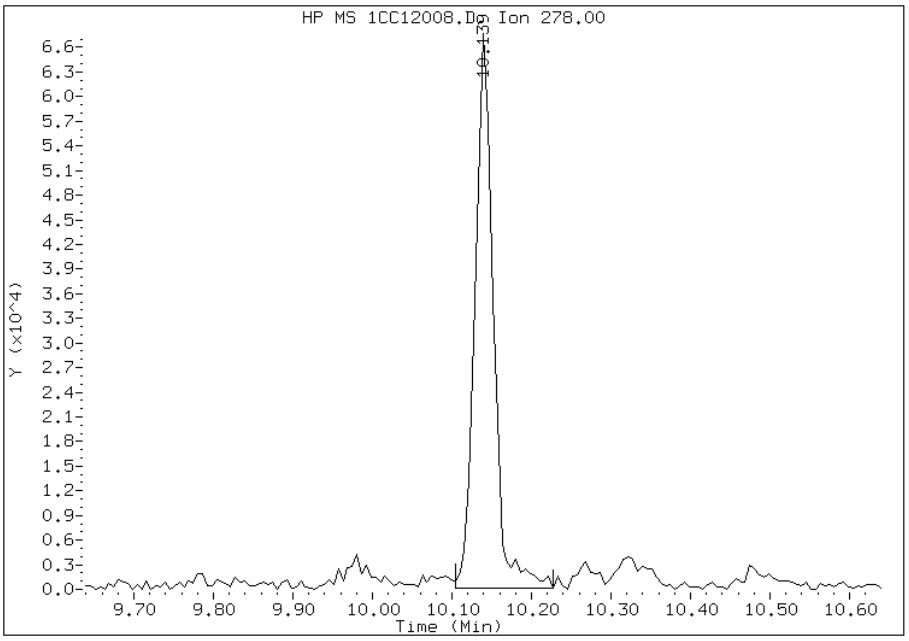
Manual Integration Results

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

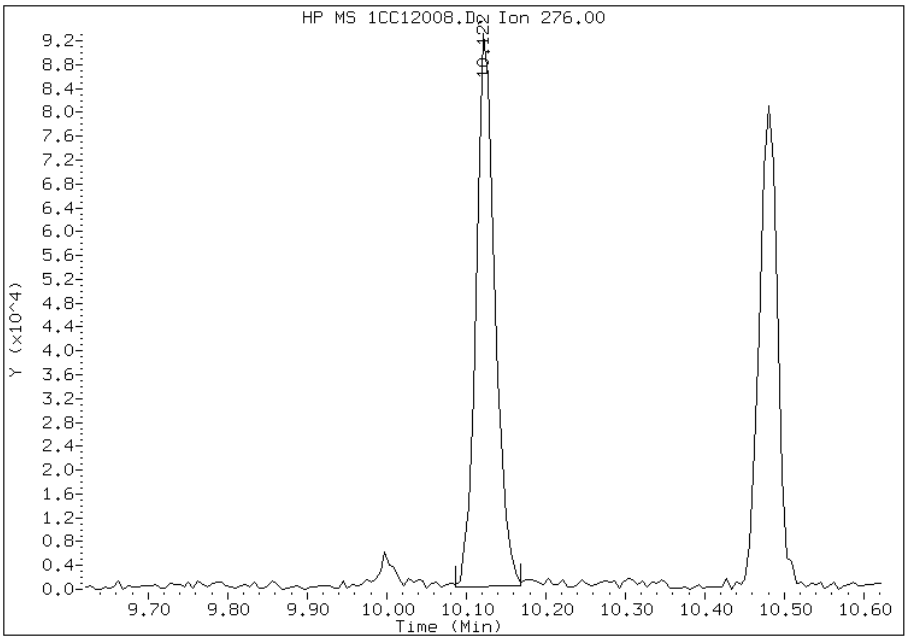
Processing Integration Results

RT: 10.12

Response: 151994

Amount: 3

Conc: 776



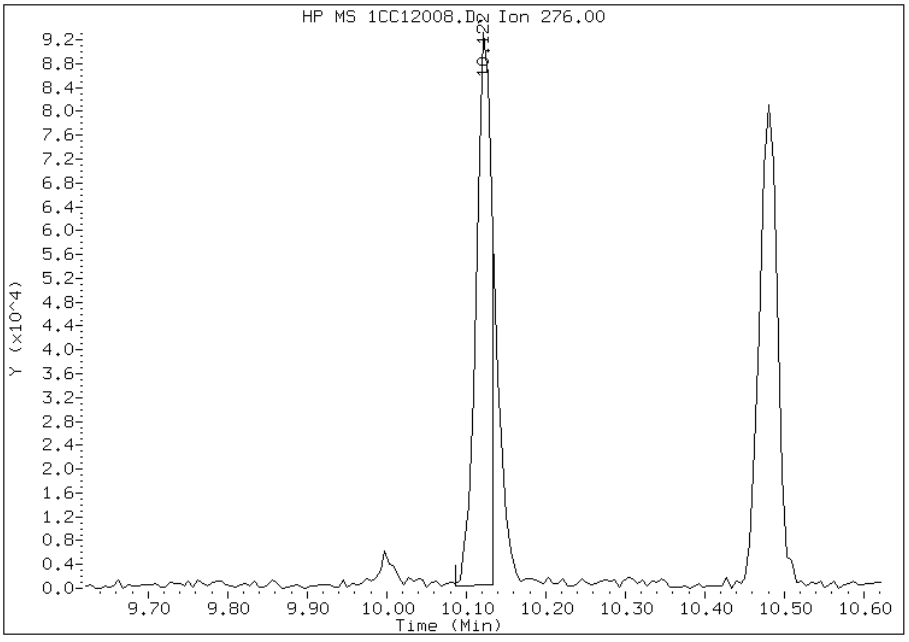
Manual Integration Results

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.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: 680-88067-A-21-B MS

Matrix: Solid | Lab File ID: 1CC14018.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/13/2013 12:00

Sample wt/vol: 15.19(g) | Date Analyzed: 03/14/2013 16:10

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

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

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135453 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	518		120	25
208-96-8	Acenaphthylene	507		49	6.2
120-12-7	Anthracene	645		10	5.2
56-55-3	Benzo[a]anthracene	952		9.8	4.8
50-32-8	Benzo[a]pyrene	884		13	6.4
205-99-2	Benzo[b]fluoranthene	1170		15	7.5
191-24-2	Benzo[g,h,i]perylene	776		25	5.4
207-08-9	Benzo[k]fluoranthene	844		9.8	4.4
218-01-9	Chrysene	913		11	5.5
53-70-3	Dibenz(a,h)anthracene	651		25	5.0
206-44-0	Fluoranthene	1170		25	4.9
86-73-7	Fluorene	604		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	741		25	8.7
90-12-0	1-Methylnaphthalene	569		49	5.4
91-57-6	2-Methylnaphthalene	531		49	8.7
91-20-3	Naphthalene	452		49	5.4
85-01-8	Phenanthrene	882		9.8	4.8
129-00-0	Pyrene	1150		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14018.D
Lab Smp Id: 680-88067-a-21-b ms
Inj Date : 14-MAR-2013 16:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 18 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	15.190	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	3.751	3.751	(1.000)	1012737	40.0000	
* 6	Acenaphthene-d10	164	4.839	4.839	(1.000)	839896	40.0000	
* 10	Phenanthrene-d10	188	5.786	5.786	(1.000)	1549703	40.0000	
$ 14	o-Terphenyl	230	6.039	6.039	(1.044)	158198	6.76121	445.1094
* 18	Chrysene-d12	240	7.733	7.733	(1.000)	1685259	40.0000	
* 23	Perylene-d12	264	8.921	8.927	(1.000)	1515409	40.0000	
2	Naphthalene	128	3.769	3.768	(1.005)	145244	5.50889	362.6657
3	2-Methylnaphthalene	142	4.192	4.192	(1.118)	113778	6.46949	425.9045
4	1-Methylnaphthalene	142	4.257	4.257	(1.135)	111038	6.93233	456.3744
5	Acenaphthylene	152	4.751	4.751	(0.982)	209165	6.17699	406.6483
7	Acenaphthene	154	4.857	4.857	(1.004)	132815	6.31037	415.4290
9	Fluorene	166	5.180	5.180	(1.070)	195985	7.36290	484.7204
11	Phenanthrene	178	5.804	5.804	(1.003)	481910	10.7544	707.9910
12	Anthracene	178	5.839	5.839	(1.009)	344492	7.86073	517.4934

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.945	5.945	(1.027)	313973	8.05950	530.5793
15 Fluoranthene	202	6.639	6.639	(1.147)	700379	14.2722	939.5780(R)
16 Pyrene	202	6.810	6.809	(0.881)	636396	14.0519	925.0767(R)
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	564727	11.6104	764.3437
19 Chrysene	228	7.751	7.751	(1.002)	542139	11.1376	733.2207
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	564513	14.2542	938.3937(R)
21 Benzo(k)fluoranthene	252	8.598	8.598	(0.964)	417882	10.2859	677.1473
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	414857	10.7845	709.9763
24 Indeno(1,2,3-cd)pyrene	276	10.104	10.097	(1.133)	326809	9.03105	594.5392(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	281059	7.94037	522.7363
26 Benzo(g,h,i)perylene	276	10.456	10.456	(1.172)	358010	9.45742	622.6085

QC Flag Legend

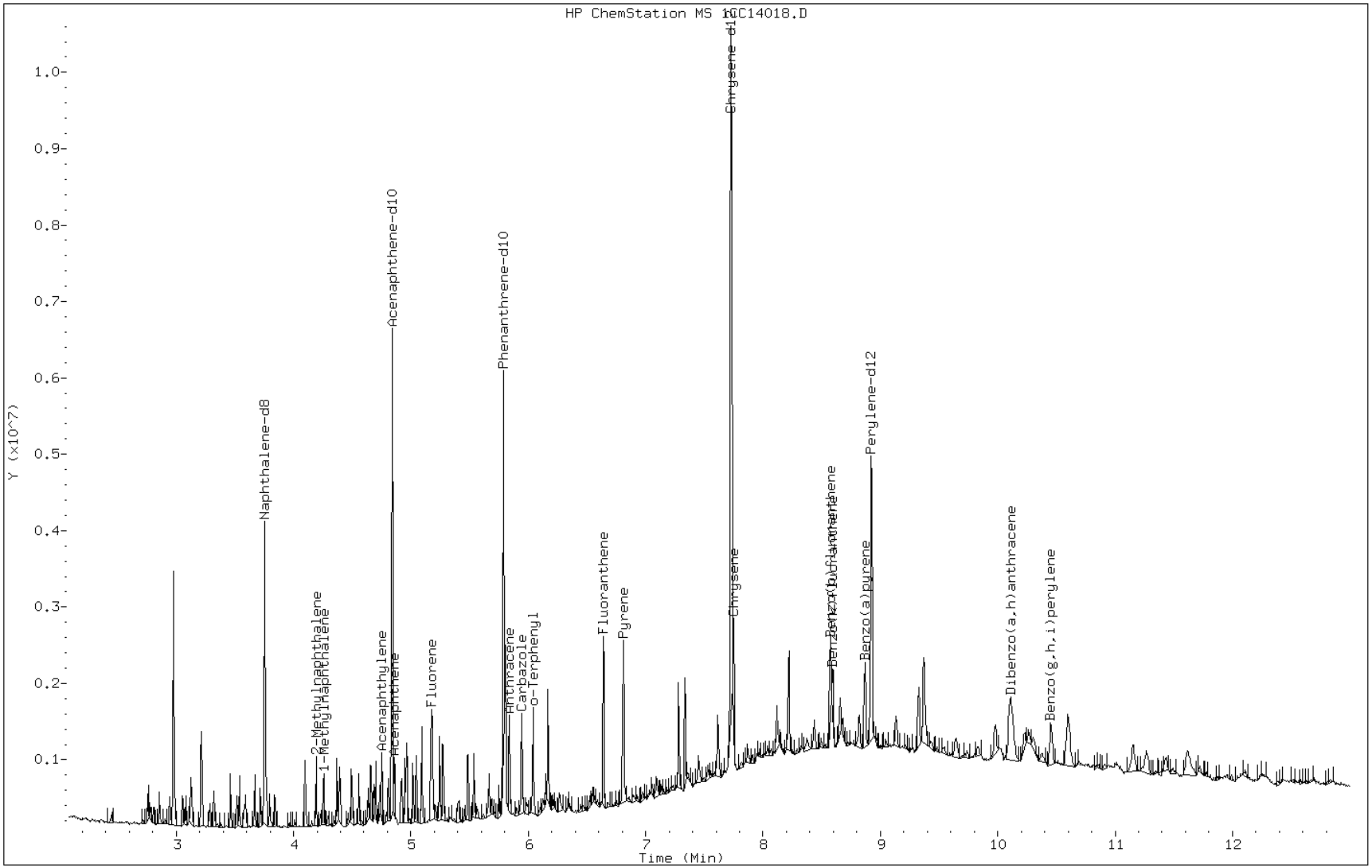
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC14018.D

Date: 14-MAR-2013 16:10

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1CC14018.D
Inj. Date and Time: 14-MAR-2013 16:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

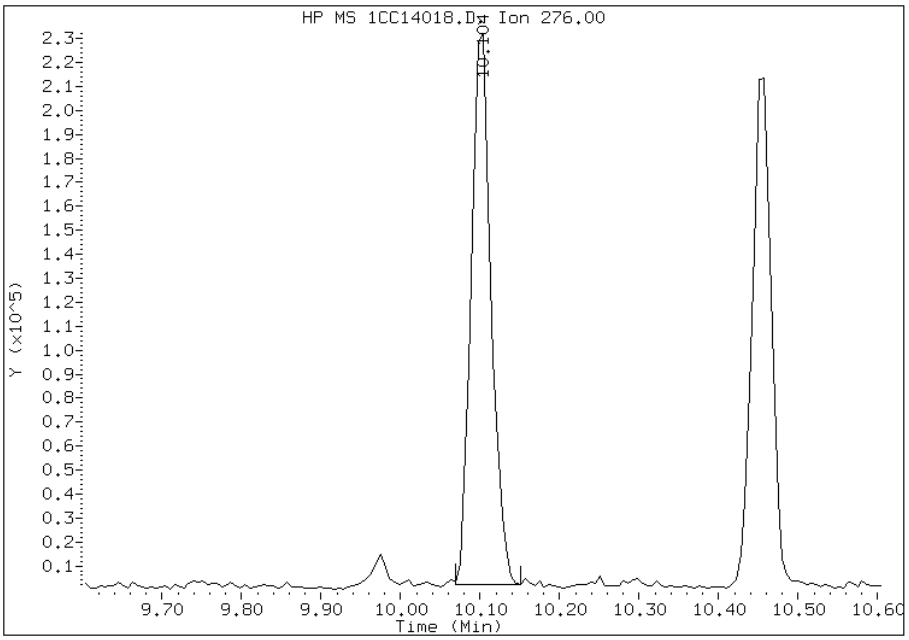
Processing Integration Results

RT: 10.10

Response: 397906

Amount: 11

Conc: 724



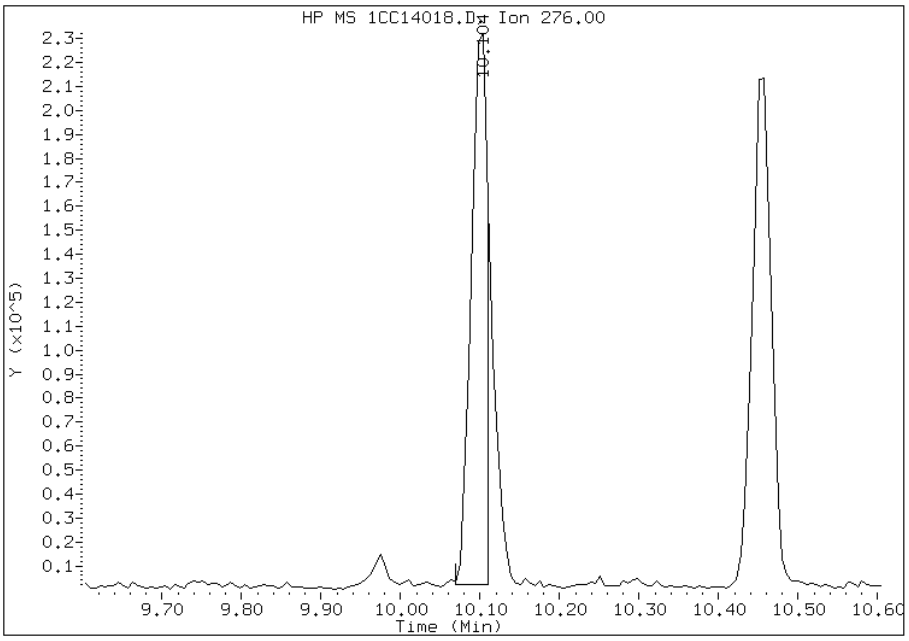
Manual Integration Results

RT: 10.10

Response: 326809

Amount: 9

Conc: 595



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0552B-CS-SP MS | Lab Sample ID: 680-88067-2 MS

Matrix: Solid | Lab File ID: 1AC13028.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:10

Extract. Method: 3546 | Date Extracted: 03/11/2013 13:49

Sample wt/vol: 15.09(g) | Date Analyzed: 03/13/2013 17:40

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

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

% Moisture: 30.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135452 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	366	J	570	110
208-96-8	Acenaphthylene	256		230	28
120-12-7	Anthracene	380		48	24
56-55-3	Benzo[a]anthracene	609		46	22
50-32-8	Benzo[a]pyrene	202		59	30
205-99-2	Benzo[b]fluoranthene	382		69	35
191-24-2	Benzo[g,h,i]perylene	308		110	25
207-08-9	Benzo[k]fluoranthene	289		46	20
218-01-9	Chrysene	623		51	26
53-70-3	Dibenz(a,h)anthracene	333		110	23
206-44-0	Fluoranthene	522		110	23
86-73-7	Fluorene	499		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	322		110	40
90-12-0	1-Methylnaphthalene	1450		230	25
91-57-6	2-Methylnaphthalene	1250		230	40
91-20-3	Naphthalene	945		230	25
85-01-8	Phenanthrene	1060		46	22
129-00-0	Pyrene	597		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13028.D
Lab Smp Id: 680-88067-A-2-B MS
Inj Date : 13-MAR-2013 17:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88067-A-2-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 27 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	15.090	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	2.319	2.306	(1.000)	553023	40.0000	
* 6 Acenaphthene-d10	164	3.340	3.326	(1.000)	415600	40.0000	
* 10 Phenanthrene-d10	188	4.264	4.250	(1.000)	571475	40.0000	
$ 14 o-Terphenyl	230	4.536	4.528	(1.064)	9599	1.15434	305.9885
* 18 Chrysene-d12	240	6.267	6.243	(1.000)	420133	40.0000	(H)
* 23 Perylene-d12	264	7.368	7.327	(1.000)	634061	40.0000	
2 Naphthalene	128	2.330	2.316	(1.005)	33169	2.48908	659.7969(Q)
3 2-Methylnaphthalene	141	2.731	2.722	(1.177)	22679	3.29672	873.8817(R)
4 1-Methylnaphthalene	142	2.784	2.776	(1.200)	29359	3.83251	1015.9072(R)
5 Acenaphthylene	152	3.254	3.241	(0.974)	10474	0.67496	178.9165(R)
7 Acenaphthene	154	3.350	3.347	(1.003)	8633	0.96280	255.2140(QR)
9 Fluorene	166	3.660	3.652	(1.096)	14864	1.31342	348.1568
11 Phenanthrene	178	4.275	4.266	(1.002)	39523	2.78234	737.5325
12 Anthracene	178	4.307	4.298	(1.010)	13823	1.00182	265.5574

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.472	4.453	(1.049)	10939	0.89809	238.0626(R)
15 Fluoranthene	202	5.129	5.116	(1.203)	19533	1.37528	364.5538
16 Pyrene	202	5.295	5.276	(0.845)	19367	1.57160	416.5945(H)
17 Benzo(a)anthracene	228	6.257	6.232	(0.998)	20109	1.60297	424.9089(H)
19 Chrysene	228	6.278	6.264	(1.002)	18414	1.64125	435.0550(H)
20 Benzo(b)fluoranthene	252	7.074	7.055	(0.960)	16176	1.00638	266.7681(H)
21 Benzo(k)fluoranthene	252	7.095	7.071	(0.963)	12309	0.76119	201.7721(RH)
22 Benzo(a)pyrene	252	7.304	7.279	(0.991)	7837	0.53241	141.1295(R)
24 Indeno(1,2,3-cd)pyrene	276	8.068	8.027	(1.095)	10718	0.84873	224.9772(M)
25 Dibenzo(a,h)anthracene	278	8.073	8.038	(1.096)	11531	0.87623	232.2684
26 Benzo(g,h,i)perylene	276	8.260	8.214	(1.121)	10894	0.81107	214.9954

QC Flag Legend

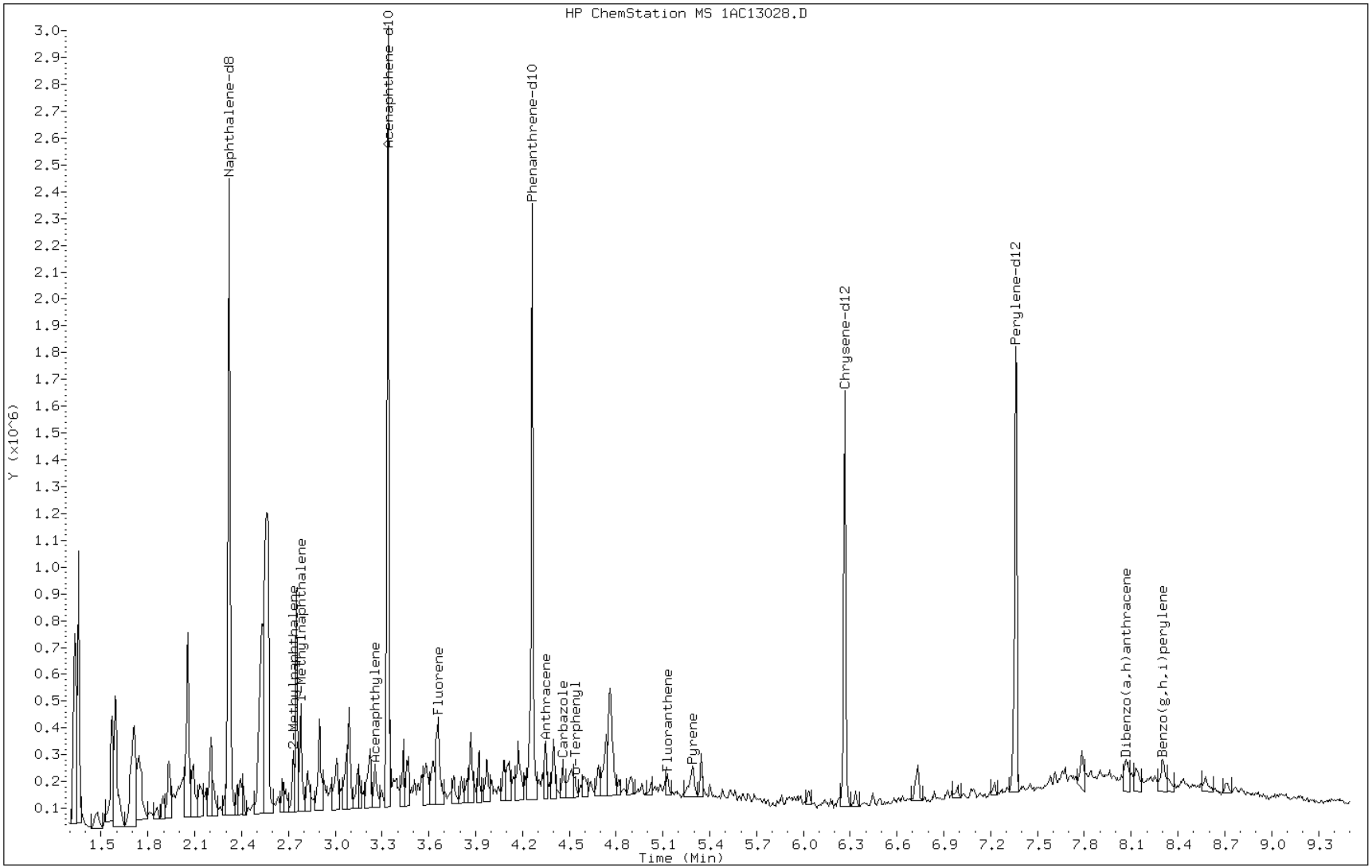
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC13028.D

Date: 13-MAR-2013 17:40

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-B MS Operator: SCC



Manual Integration Report

Data File: 1AC13028.D
Inj. Date and Time: 13-MAR-2013 17:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

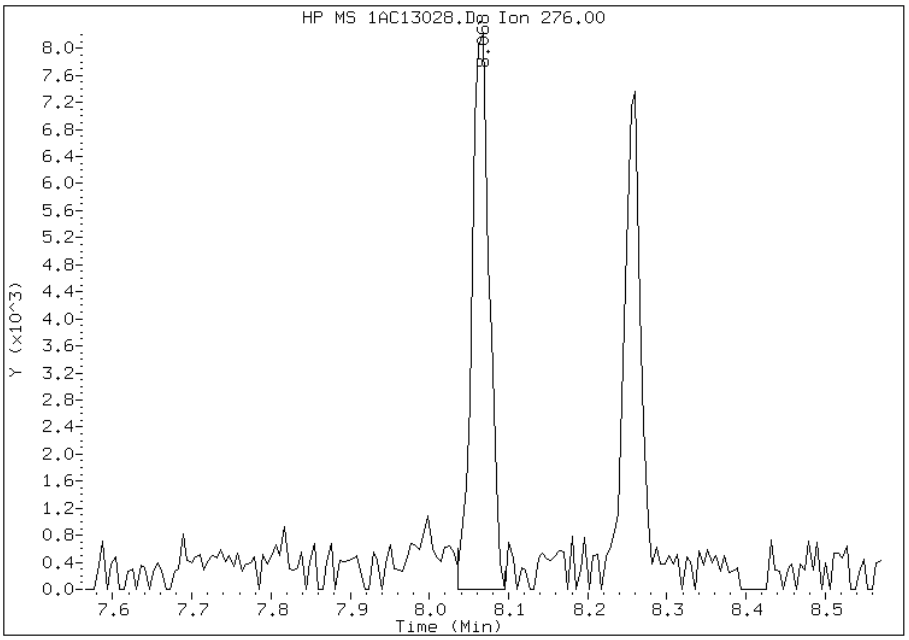
Processing Integration Results

RT: 8.07

Response: 12569

Amount: 1

Conc: 264



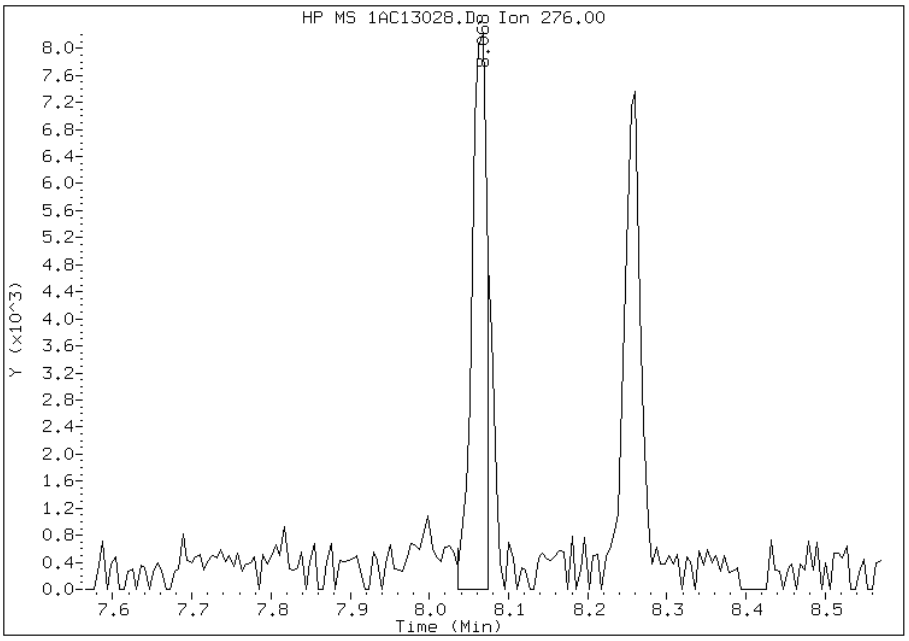
Manual Integration Results

RT: 8.07

Response: 10718

Amount: 1

Conc: 225



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: 680-88065-A-5-C MSD

Matrix: Solid | Lab File ID: 1CC12009.D

Analysis Method: 8270C LL | Date Collected:

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)	CONCENTRATIONS 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

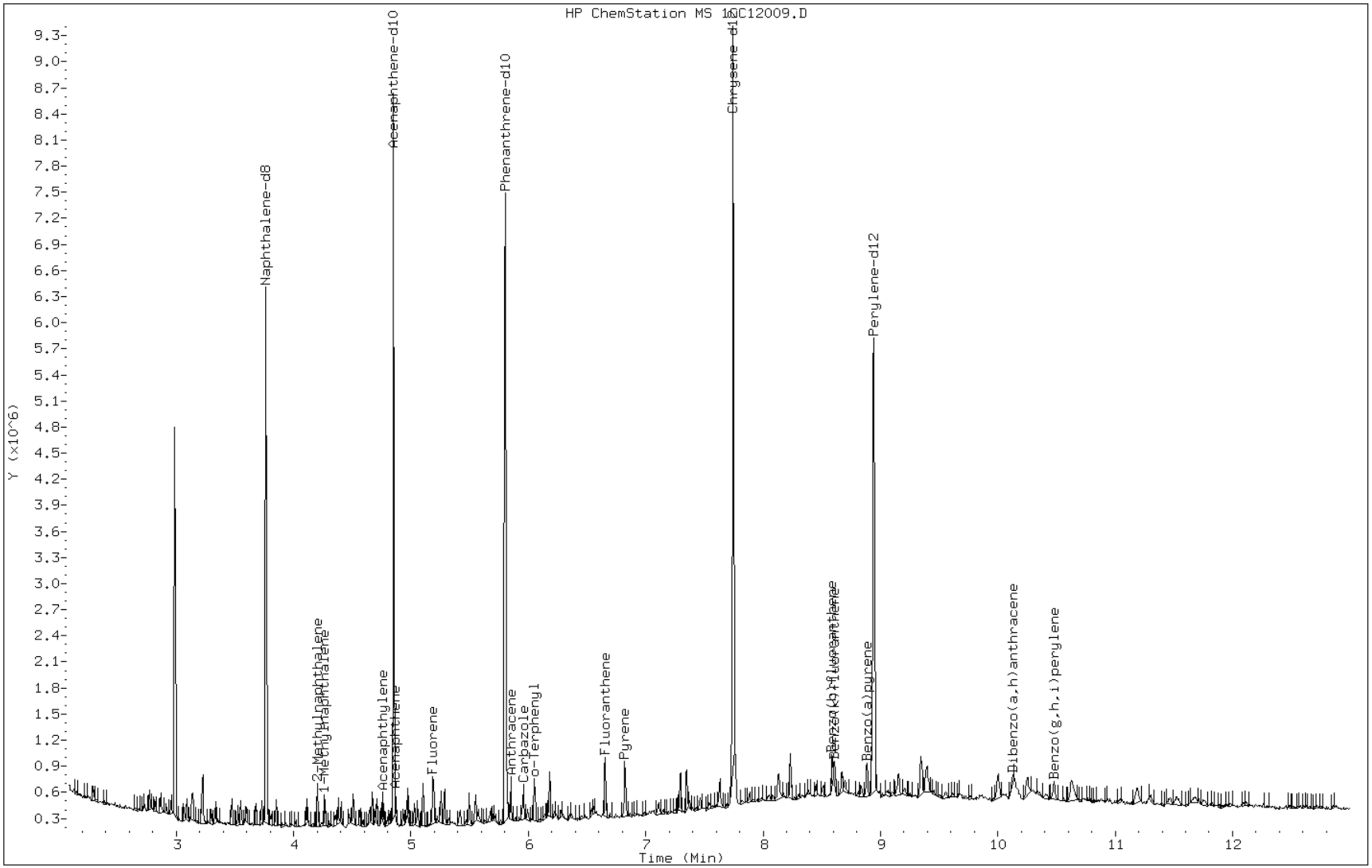
Date: 12-MAR-2013 14:40

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

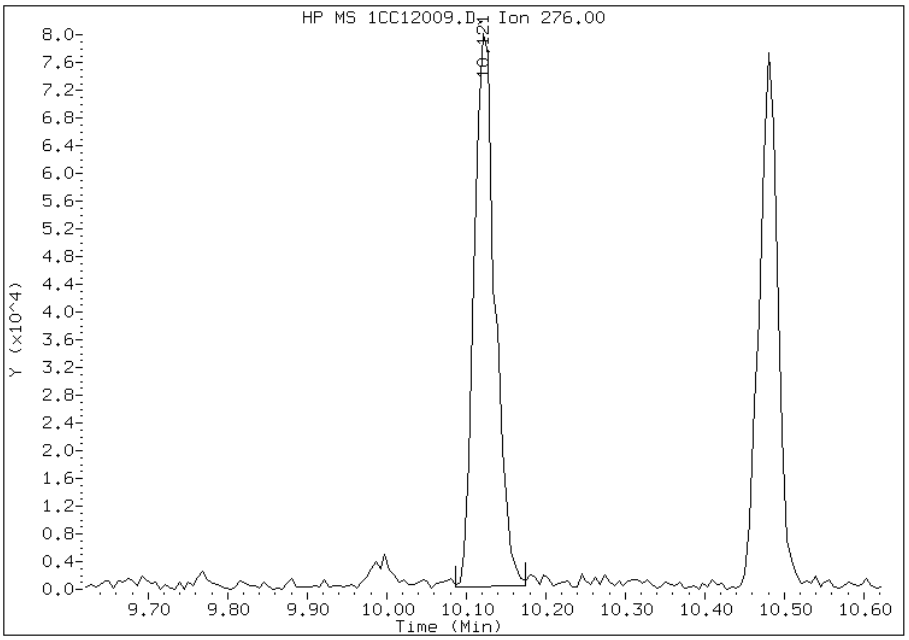
Processing Integration Results

RT: 10.12

Response: 146734

Amount: 3

Conc: 759



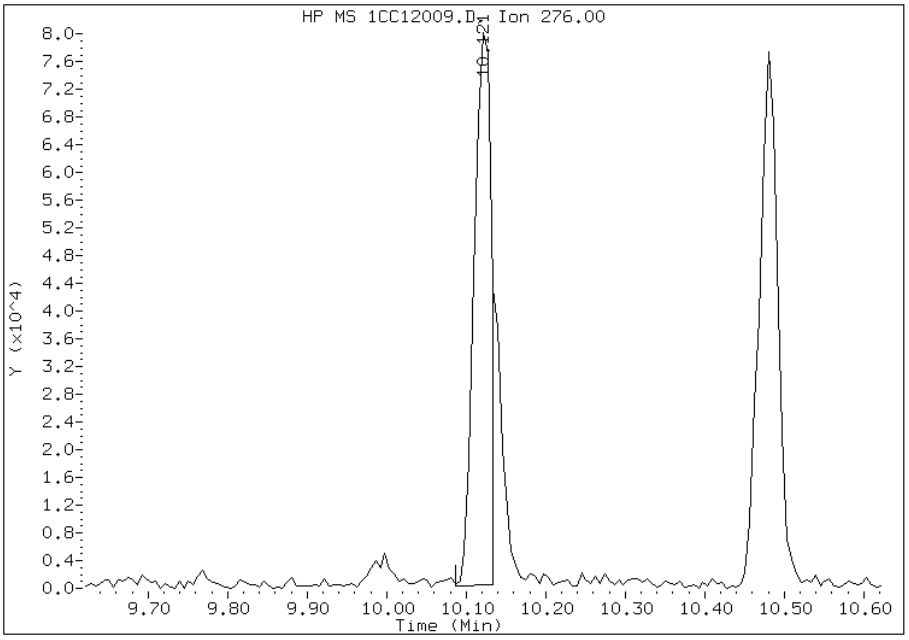
Manual Integration Results

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: | Lab Sample ID: 680-88067-A-21-C MSD

Matrix: Solid | Lab File ID: 1CC14019.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/13/2013 12:00

Sample wt/vol: 15.19(g) | Date Analyzed: 03/14/2013 16:29

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

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

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135453 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	553		120	25
208-96-8	Acenaphthylene	591		49	6.2
120-12-7	Anthracene	645		10	5.2
56-55-3	Benzo[a]anthracene	998		9.8	4.8
50-32-8	Benzo[a]pyrene	918		13	6.4
205-99-2	Benzo[b]fluoranthene	1230		15	7.5
191-24-2	Benzo[g,h,i]perylene	790		25	5.4
207-08-9	Benzo[k]fluoranthene	853		9.8	4.4
218-01-9	Chrysene	919		11	5.5
53-70-3	Dibenz(a,h)anthracene	648		25	5.0
206-44-0	Fluoranthene	1320		25	4.9
86-73-7	Fluorene	580		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	780		25	8.7
90-12-0	1-Methylnaphthalene	627		49	5.4
91-57-6	2-Methylnaphthalene	614		49	8.7
91-20-3	Naphthalene	552		49	5.4
85-01-8	Phenanthrene	929		9.8	4.8
129-00-0	Pyrene	1250		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\1CC14019.D
Lab Smp Id: 680-88067-a-21-c ms
Inj Date : 14-MAR-2013 16:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88067-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031413.b\a-bFASTPAHi-m.m
Meth Date : 14-Mar-2013 11:50 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 19 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	15.190	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	3.751	(1.000)	982850	40.0000	
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	793699	40.0000	
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1510668	40.0000	
$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	154958	6.79387	447.2591
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1697498	40.0000	
* 23 Perylene-d12	264	8.921	8.927	(1.000)	1514801	40.0000	
2 Naphthalene	128	3.768	3.768	(1.003)	172086	6.72545	442.7548
3 2-Methylnaphthalene	142	4.192	4.192	(1.116)	127821	7.48899	493.0212
4 1-Methylnaphthalene	142	4.257	4.257	(1.133)	118815	7.64343	503.1880
5 Acenaphthylene	152	4.751	4.751	(0.982)	230508	7.20350	474.2264
7 Acenaphthene	154	4.863	4.857	(1.005)	134150	6.74478	444.0277
9 Fluorene	166	5.180	5.180	(1.070)	177928	7.07360	465.6745
11 Phenanthrene	178	5.804	5.804	(1.003)	494855	11.3286	745.7945
12 Anthracene	178	5.839	5.839	(1.009)	336084	7.86703	517.9084

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.945	5.945	(1.027)	297445	7.83253	515.6371
15 Fluoranthene	202	6.645	6.639	(1.148)	768944	16.0743	1058.2150(R)
16 Pyrene	202	6.809	6.809	(0.881)	696876	15.2764	1005.6878(R)
17 Benzo(a)anthracene	228	7.721	7.721	(0.998)	596039	12.1658	800.9072
19 Chrysene	228	7.751	7.751	(1.002)	549539	11.2082	737.8702
20 Benzo(b)fluoranthene	252	8.574	8.574	(0.961)	595690	15.0475	990.6169(R)
21 Benzo(k)fluoranthene	252	8.592	8.598	(0.963)	422565	10.4053	685.0106
22 Benzo(a)pyrene	252	8.868	8.868	(0.994)	430362	11.1921	736.8068
24 Indeno(1,2,3-cd)pyrene	276	10.097	10.097	(1.132)	344083	9.51222	626.2158(M)
25 Dibenzo(a,h)anthracene	278	10.115	10.121	(1.134)	279433	7.89760	519.9208
26 Benzo(g,h,i)perylene	276	10.456	10.456	(1.172)	364473	9.63202	634.1026

QC Flag Legend

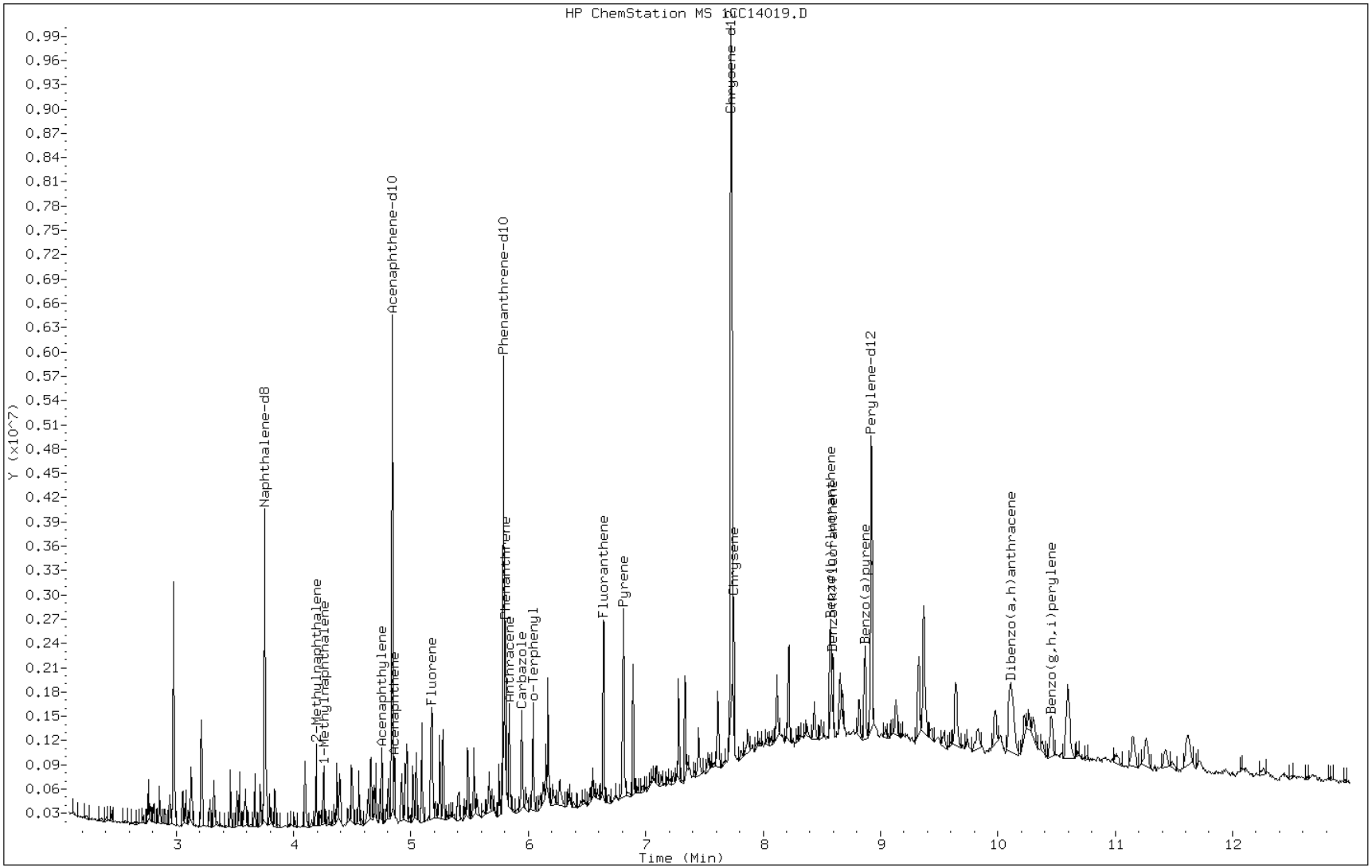
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC14019.D

Date: 14-MAR-2013 16:29

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88067-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CC14019.D
Inj. Date and Time: 14-MAR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/18/2013

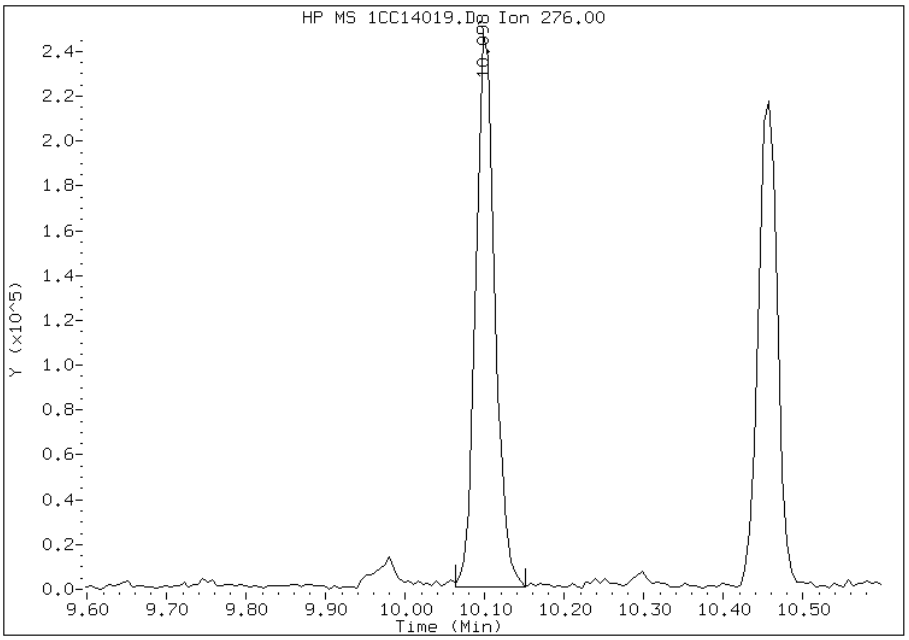
Processing Integration Results

RT: 10.10

Response: 409939

Amount: 11

Conc: 746



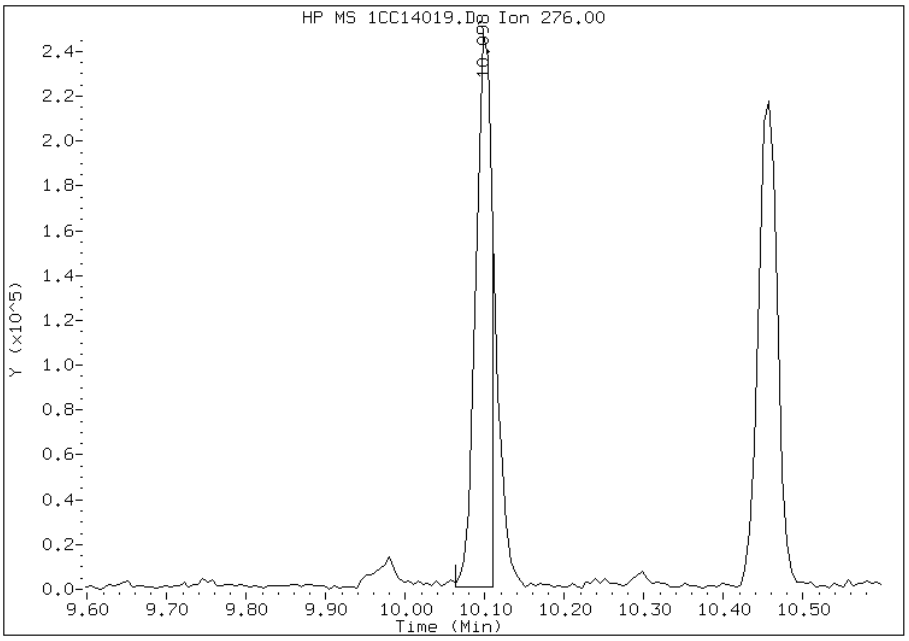
Manual Integration Results

RT: 10.10

Response: 344083

Amount: 10

Conc: 626



Manually Integrated By: cantins
Modification Date: 18-Mar-2013 10:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88067-1

SDG No.: 68088067-1

Client Sample ID: CV0552B-CS-SP MSD | Lab Sample ID: 680-88067-2 MSD

Matrix: Solid | Lab File ID: 1AC13029.D

Analysis Method: 8270C LL | Date Collected: 03/05/2013 10:10

Extract. Method: 3546 | Date Extracted: 03/11/2013 13:49

Sample wt/vol: 15.05(g) | Date Analyzed: 03/13/2013 17:55

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

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

% Moisture: 30.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135452 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	461	J	570	110
208-96-8	Acenaphthylene	256		230	29
120-12-7	Anthracene	408		48	24
56-55-3	Benzo[a]anthracene	547		46	22
50-32-8	Benzo[a]pyrene	239		59	30
205-99-2	Benzo[b]fluoranthene	464		70	35
191-24-2	Benzo[g,h,i]perylene	320		110	25
207-08-9	Benzo[k]fluoranthene	248		46	21
218-01-9	Chrysene	648		51	26
53-70-3	Dibenz(a,h)anthracene	351		110	23
206-44-0	Fluoranthene	619		110	23
86-73-7	Fluorene	415		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	315		110	41
90-12-0	1-Methylnaphthalene	985		230	25
91-57-6	2-Methylnaphthalene	963		230	41
91-20-3	Naphthalene	765		230	25
85-01-8	Phenanthrene	1000		46	22
129-00-0	Pyrene	660		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\1AC13029.D
Lab Smp Id: 680-88067-A-2-C MSD
Inj Date : 13-MAR-2013 17:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88067-A-2-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031313.b\a-bFASTPAHi-m.m
Meth Date : 13-Mar-2013 11:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.321	2.306	(1.000)	556639	40.0000	
* 6 Acenaphthene-d10	164	3.336	3.326	(1.000)	398229	40.0000	
* 10 Phenanthrene-d10	188	4.265	4.250	(1.000)	593449	40.0000	
$ 14 o-Terphenyl	230	4.538	4.528	(1.064)	11319	1.31078	348.3804
* 18 Chrysene-d12	240	6.269	6.243	(1.000)	478805	40.0000	(H)
* 23 Perylene-d12	264	7.369	7.327	(1.000)	657230	40.0000	(H)
2 Naphthalene	128	2.331	2.316	(1.005)	26949	2.00918	534.0020(Q)
3 2-Methylnaphthalene	141	2.727	2.722	(1.175)	17515	2.52952	672.2970
4 1-Methylnaphthalene	142	2.786	2.776	(1.200)	19960	2.58864	688.0114
5 Acenaphthylene	152	3.250	3.241	(0.974)	9982	0.67132	178.4230(R)
7 Acenaphthene	154	3.352	3.347	(1.005)	10403	1.21080	321.8080
9 Fluorene	166	3.662	3.652	(1.098)	11837	1.09157	290.1191
11 Phenanthrene	178	4.276	4.266	(1.002)	38740	2.62624	698.0033
12 Anthracene	178	4.308	4.298	(1.010)	15377	1.07318	285.2294

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.474	4.453	(1.049)	10193	0.80586	214.1816(R)
15 Fluoranthene	202	5.131	5.116	(1.203)	23986	1.62627	432.2322
16 Pyrene	202	5.296	5.276	(0.845)	24348	1.73369	460.7818(H)
17 Benzo(a)anthracene	228	6.258	6.232	(0.998)	20561	1.43816	382.2350(H)
19 Chrysene	228	6.285	6.264	(1.003)	21781	1.70346	452.7461(H)
20 Benzo(b)fluoranthene	252	7.081	7.055	(0.961)	20323	1.21981	324.2029(H)
21 Benzo(k)fluoranthene	252	7.097	7.071	(0.963)	10935	0.65238	173.3898(RH)
22 Benzo(a)pyrene	252	7.310	7.279	(0.992)	9569	0.62716	166.6866(RH)
24 Indeno(1,2,3-cd)pyrene	276	8.069	8.027	(1.095)	10820	0.82660	219.6941(MH)
25 Dibenzo(a,h)anthracene	278	8.080	8.038	(1.096)	12590	0.92298	245.3100(H)
26 Benzo(g,h,i)perylene	276	8.261	8.214	(1.121)	11718	0.84166	223.6978(H)

QC Flag Legend

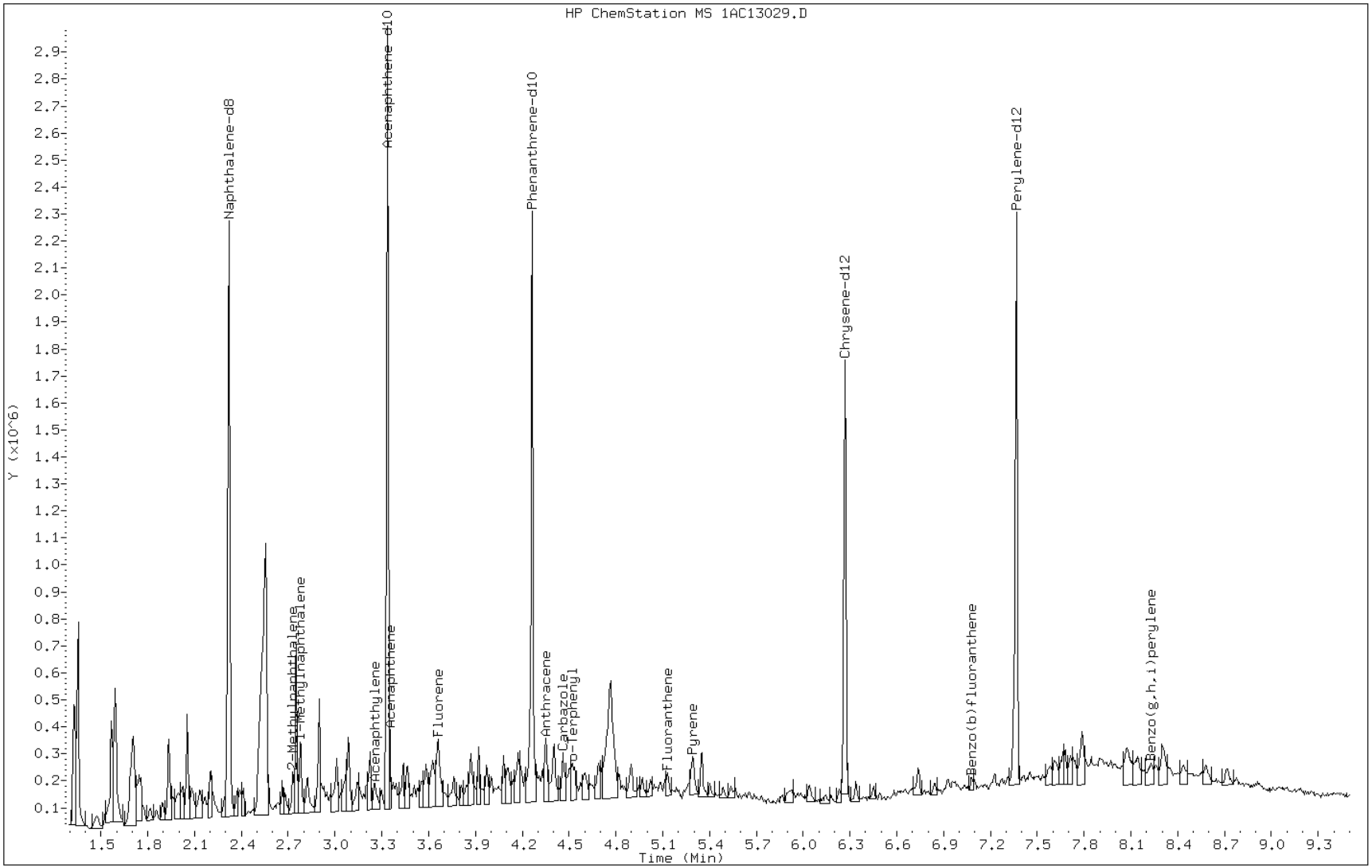
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC13029.D

Date: 13-MAR-2013 17:55

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88067-A-2-C MSD Operator: SCC



Manual Integration Report

Data File: 1AC13029.D
Inj. Date and Time: 13-MAR-2013 17:55
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

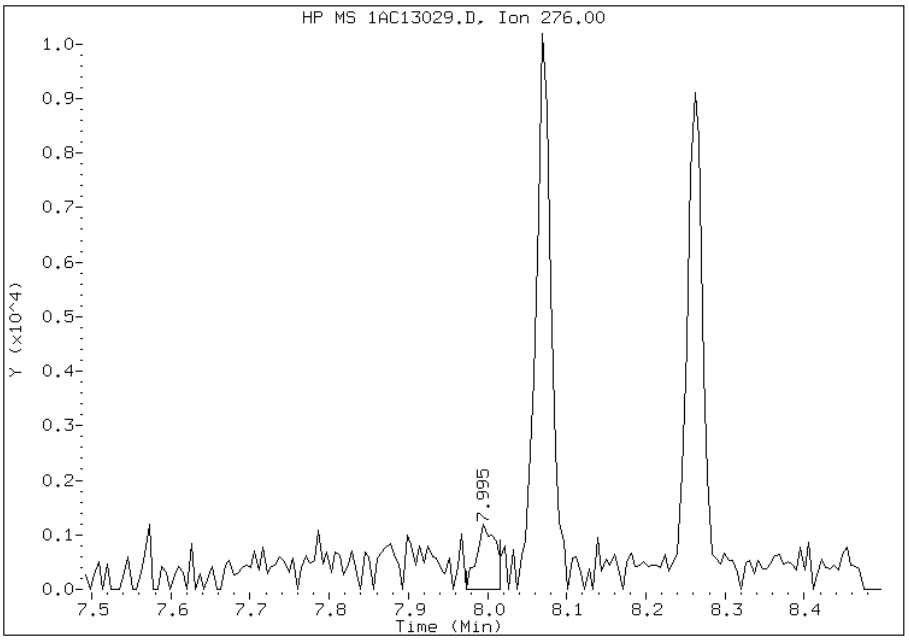
Processing Integration Results

RT: 7.99

Response: 1980

Amount: 0

Conc: 40



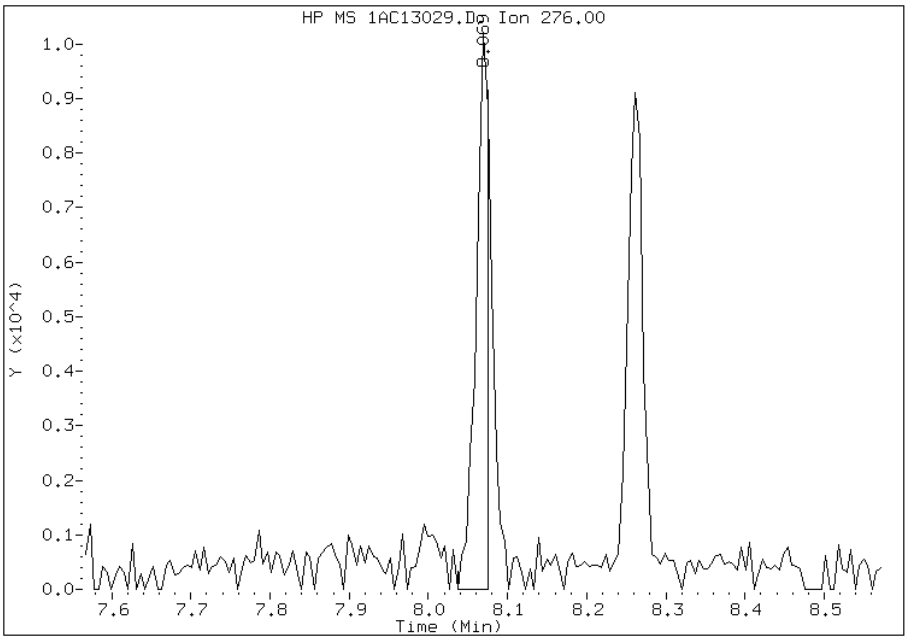
Manual Integration Results

RT: 8.07

Response: 10820

Amount: 1

Conc: 220



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 13:12
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 10:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 10:27	1		DB-5MS 250(um)
DFTPP 660-134771/2		02/22/2013 10:42	1	1AB22002.D	DB-5MS 250(um)
IC 660-134771/3		02/22/2013 11:01	1	1AB22003.D	DB-5MS 250(um)
IC 660-134771/4		02/22/2013 11:16	1	1AB22004.D	DB-5MS 250(um)
IC 660-134771/5		02/22/2013 11:31	1	1AB22005.D	DB-5MS 250(um)
IC 660-134771/6		02/22/2013 11:47	1	1AB22006.D	DB-5MS 250(um)
ICIS 660-134771/7		02/22/2013 12:02	1	1AB22007.D	DB-5MS 250(um)
IC 660-134771/8		02/22/2013 12:17	1	1AB22008.D	DB-5MS 250(um)
IC 660-134771/9		02/22/2013 12:32	1	1AB22009.D	DB-5MS 250(um)
ICV 660-134771/10		02/22/2013 12:48	1	1AB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 13:08	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:38	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:55	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:41	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:41	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:42	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:27	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 21:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:13	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:28	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMA5973 Start Date: 03/13/2013 10:12

Analysis Batch Number: 135452 End Date: 03/13/2013 17:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/13/2013 10:12	1		DB-5MS 250(um)
DFTPP 660-135452/2		03/13/2013 10:27	1		DB-5MS 250(um)
DFTPP 660-135452/3		03/13/2013 10:43	1	1AC13003.D	DB-5MS 250(um)
CCVIS 660-135452/4		03/13/2013 10:56	1	1AC13004.D	DB-5MS 250(um)
ZZZZZ		03/13/2013 11:12	1		DB-5MS 250(um)
MB 660-135265/1-A		03/13/2013 11:27	1	1AC13006.D	DB-5MS 250(um)
LCS 660-135265/2-A		03/13/2013 11:42	1	1AC13007.D	DB-5MS 250(um)
ZZZZZ		03/13/2013 11:57	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 12:12	4		DB-5MS 250(um)
ZZZZZ		03/13/2013 12:28	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 12:43	4		DB-5MS 250(um)
ZZZZZ		03/13/2013 12:58	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 13:13	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 13:28	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 14:23	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 14:38	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 14:53	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:08	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:23	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:38	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 15:53	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:24	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:39	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		03/13/2013 17:09	1		DB-5MS 250(um)
680-88067-2	CV0552B-CS-SP	03/13/2013 17:24	4	1AC13027.D	DB-5MS 250(um)
680-88067-2 MS	CV0552B-CS-SP MS	03/13/2013 17:40	4	1AC13028.D	DB-5MS 250(um)
680-88067-2 MSD	CV0552B-CS-SP MSD	03/13/2013 17:55	4	1AC13029.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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)
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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.: 680-88067-1

SDG No.: 68088067-1

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)
ZZZZZ		03/12/2013 14:03	4		DB-5MS 250(um)
680-88065-A-5-B MS		03/12/2013 14:21	4	1CC12008.D	DB-5MS 250(um)
680-88065-A-5-C MSD		03/12/2013 14:40	4	1CC12009.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 14:58	4		DB-5MS 250(um)
ZZZZZ		03/12/2013 15:16	1		DB-5MS 250(um)
ZZZZZ		03/12/2013 15:35	1		DB-5MS 250(um)
680-88067-1	CV0552A-CS-SP	03/12/2013 15:53	1	1CC12013.D	DB-5MS 250(um)
680-88067-3	CV0558A-CS-SP	03/12/2013 16:11	1	1CC12014.D	DB-5MS 250(um)
680-88067-4	CV0558B-CS-SP	03/12/2013 16:30	1	1CC12015.D	DB-5MS 250(um)
ZZZZZ		03/12/2013 16:48	4		DB-5MS 250(um)
680-88067-5	FM0301A-CS	03/12/2013 17:07	1	1CC12017.D	DB-5MS 250(um)
680-88067-6	HP0023A-CS	03/12/2013 17:25	4	1CC12018.D	DB-5MS 250(um)
680-88067-7	HP0023B-CS	03/12/2013 17:43	4	1CC12019.D	DB-5MS 250(um)
680-88067-8	HP0253A-CS	03/12/2013 18:01	1	1CC12020.D	DB-5MS 250(um)
680-88067-9	HP0253B-CS	03/12/2013 18:20	4	1CC12021.D	DB-5MS 250(um)
680-88067-10	HP0253B-CSD	03/12/2013 18:38	1	1CC12022.D	DB-5MS 250(um)
680-88067-11	HP0255A-CS	03/12/2013 18:56	1	1CC12023.D	DB-5MS 250(um)
680-88067-12	CV0281A-CS	03/12/2013 19:15	1	1CC12024.D	DB-5MS 250(um)
680-88067-13	CV0281B-CS	03/12/2013 19:33	1	1CC12025.D	DB-5MS 250(um)
680-88067-14	CV0339A-CS-SP	03/12/2013 19:51	4	1CC12026.D	DB-5MS 250(um)
680-88067-15	CV0339B-CS-SP	03/12/2013 20:10	4	1CC12027.D	DB-5MS 250(um)
680-88067-16	CV0388A-CS	03/12/2013 20:28	4	1CC12028.D	DB-5MS 250(um)
680-88067-17	CV0388A-CSD	03/12/2013 20:46	4	1CC12029.D	DB-5MS 250(um)
680-88067-18	CV0388B-CS	03/12/2013 21:05	4	1CC12030.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMC5973 Start Date: 03/14/2013 10:41

Analysis Batch Number: 135453 End Date: 03/14/2013 19:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/14/2013 10:41	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 10:59	1		DB-5MS 250(um)
DFTPP 660-135453/2		03/14/2013 11:18	1	1CC14002.D	DB-5MS 250(um)
CCVIS 660-135453/3		03/14/2013 11:35	1	1CC14003.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 11:54	1		DB-5MS 250(um)
MB 660-135343/1-A		03/14/2013 12:12	1	1CC14005.D	DB-5MS 250(um)
LCS 660-135343/2-A		03/14/2013 12:30	1	1CC14006.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 12:49	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 13:07	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 13:25	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 13:44	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 14:02	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 14:20	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 14:57	1		DB-5MS 250(um)
680-88067-19	CV0341A-CS-SP	03/14/2013 15:15	1	1CC14015.D	DB-5MS 250(um)
680-88067-20	CV0341B-CS-SP	03/14/2013 15:33	4	1CC14016.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 15:52	1		DB-5MS 250(um)
680-88067-A-21-B MS		03/14/2013 16:10	1	1CC14018.D	DB-5MS 250(um)
680-88067-A-21-C MSD		03/14/2013 16:29	1	1CC14019.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 16:47	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 17:06	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 17:24	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 17:42	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 18:01	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 18:19	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 18:37	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 18:56	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 19:14	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 19:32	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 19:51	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: BSMD5973 Start Date: 03/14/2013 09:43

Analysis Batch Number: 135407 End Date: 03/14/2013 21:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/14/2013 09:43	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 10:06	1		DB-5MS 250(um)
DFTPP 660-135407/2		03/14/2013 10:30	1	1DC14002.D	DB-5MS 250(um)
CCVIS 660-135407/3		03/14/2013 10:46	1	1DC14003.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 11:09	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 11:32	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 11:55	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 12:17	10		DB-5MS 250(um)
680-88067-6 DL	HP0023A-CS DL	03/14/2013 12:40	20	1DC14008.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 13:02	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 13:25	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 13:47	4		DB-5MS 250(um)
680-88067-6 DL2	HP0023A-CS DL2	03/14/2013 14:10	50	1DC14012.D	DB-5MS 250(um)
ZZZZZ		03/14/2013 14:32	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 14:55	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 15:17	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 15:40	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 16:02	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 16:48	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 17:10	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 17:56	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 18:18	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 18:41	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 19:04	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 19:49	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 20:11	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 20:34	1		DB-5MS 250(um)
ZZZZZ		03/14/2013 20:56	4		DB-5MS 250(um)
ZZZZZ		03/14/2013 21:19	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

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 MS		3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-88065-A-5 MSD		3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-88067-A-1	CV0552A-CS-SP	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88067-A-3	CV0558A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-88067-A-4	CV0558B-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-88067-A-5	FM0301A-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-88067-A-6	HP0023A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88067-A-7	HP0023B-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88067-A-8	HP0253A-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88067-A-9	HP0253B-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88067-A-10	HP0253B-CSD	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-88067-A-11	HP0255A-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88067-A-12	CV0281A-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-88067-A-13	CV0281B-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL		
680-88067-A-14	CV0339A-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88067-A-15	CV0339B-CS-SP	3546, 8270C LL	T	15.46 g	1 mL		1 mL		
680-88067-A-16	CV0388A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88067-A-17	CV0388A-CSD	3546, 8270C LL	T	15.31 g	1 mL		1 mL		
680-88067-A-18	CV0388B-CS	3546, 8270C LL	T	15.16 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.: 680-88067-1

SDG No.: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

Batch Number: 135265 Batch Start Date: 03/11/13 13:49 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/11/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00177		
MB 660-135265/1		3546, 8270C LL		15.09 g	1 mL		1 mL		
LCS 660-135265/2		3546, 8270C LL		15.44 g	1 mL	1 mL	1 mL		
680-88067-A-2	CV0552B-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88067-A-2 MS	CV0552B-CS-SP	3546, 8270C LL	T	15.09 g	1 mL	1 mL	1 mL		
680-88067-A-2 MSD	CV0552B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 54
MeCl2/Acetone Lot #	EX-DCM/ACETON 40
Microwave Start Time	15:05 3/11/13
Microwave Stop Time	15:40 3/11/13
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	SELF
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Batch Number: 135265 Batch Start Date: 03/11/13 13:49 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/11/13 18:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Batch Number: 135343 Batch Start Date: 03/13/13 12:00 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/13/13 17:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135343/1		3546, 8270C LL		15.41 g	1 mL		1 mL		
LCS 660-135343/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL		
680-88067-A-19	CV0341A-CS-SP	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-88067-A-20	CV0341B-CS-SP	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-88067-A-21 MS		3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88067-A-21 MSD		3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 54
MeCl2/Acetone Lot #	EX-DCM/ACETON 40/41
Microwave Start Time	14:20 3/13/13
Microwave Stop Time	14:55 3/13/13
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	AG
Surrogate Lot Number	EXLLSURINT 177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40 C for all

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.: 680-88067-1

SDG No.: 68088067-1

Batch Number: 135343 Batch Start Date: 03/13/13 12:00 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/13/13 17:50

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: 680-88067-1

SDG No.: 68088067-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0552A-CS-SP	680-88067-1
CV0552B-CS-SP	680-88067-2
CV0558A-CS-SP	680-88067-3
CV0558B-CS-SP	680-88067-4
FM0301A-CS	680-88067-5
HP0023A-CS	680-88067-6
HP0023B-CS	680-88067-7
HP0253A-CS	680-88067-8
HP0253B-CS	680-88067-9
HP0253B-CSD	680-88067-10
HP0255A-CS	680-88067-11
CV0281A-CS	680-88067-12
CV0281B-CS	680-88067-13
CV0339A-CS-SP	680-88067-14
CV0339B-CS-SP	680-88067-15
CV0388A-CS	680-88067-16
CV0388A-CSD	680-88067-17
CV0388B-CS	680-88067-18
CV0341A-CS-SP	680-88067-19
CV0341B-CS-SP	680-88067-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88067-1

SDG Number: 68088067-1

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: 680-88067-1

SDG Number: 68088067-1

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: 680-88067-1

SDG Number: 68088067-1

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: 680-88067-1

SDG Number: 68088067-1

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.: 680-88067-1

SDG No.: 68088067-1

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																					
680-88067-17	1	T	07:55	X																				
680-88067-18	1	T	07:57	X																				
ZZZZZZ			08:34																					
ZZZZZZ			08:42																					
ZZZZZZ			09:21																					
ZZZZZZ			09:26																					
ZZZZZZ			09:55																					
ZZZZZZ			10:01																					
ZZZZZZ			10:04																					
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ZZZZZZ			10:50																					
ZZZZZZ			10:57																					
ZZZZZZ			11:03																					
ZZZZZZ			11:34																					
ZZZZZZ			11:50																					

Prep Types

T = Total/NA

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 03/11/2013 07:26   End Date: 03/11/2013 07:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-135227/1	1	T	07:26	X																			
680-88067-10	1	T	07:26	X																			
680-88067-9	1	T	07:26	X																			
680-88067-8	1	T	07:26	X																			
680-88067-7	1	T	07:26	X																			
680-88067-6	1	T	07:26	X																			
680-88067-5	1	T	07:26	X																			
680-88067-4	1	T	07:26	X																			
680-88067-3	1	T	07:26	X																			
680-88067-2	1	T	07:26	X																			
680-88067-2 MS	1	T	07:26	X																			
680-88067-2 MSD	1	T	07:26	X																			
680-88067-1	1	T	07:26	X																			
680-88067-20	1	T	07:26	X																			
680-88067-19	1	T	07:26	X																			
680-88067-16	1	T	07:26	X																			
680-88067-15	1	T	07:26	X																			
680-88067-14	1	T	07:26	X																			
680-88067-13	1	T	07:26	X																			
680-88067-12	1	T	07:26	X																			
680-88067-11	1	T	07:26	X																			
ZZZZZZ			07:26																				
ZZZZZZ			07:26																				
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ZZZZZZ			07:26																				
ZZZZZZ			07:26																				
680-88067-A-21 MS	1	T	07:26	X																			
680-88067-A-21 MSD	1	T	07:26	X																			
ZZZZZZ			07:26																				
ZZZZZZ			07:26																				
ZZZZZZ			07:26																				
ZZZZZZ			07:26																				
ZZZZZZ			07:26																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/11/2013 07:26 End Date: 03/11/2013 07:26

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88067-1

SDG No.: 68088067-1

Batch Number: 135227 Batch Start Date: 03/11/13 07:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135227/1		Moisture		mb	0 g	9.49 g	9.47 g		
680-88067-A-10	HP0253B-CSD	Moisture	T	1	0 g	5.17 g	3.68 g		
680-88067-A-9	HP0253B-CS	Moisture	T	2	0 g	4.24 g	3.28 g		
680-88067-A-8	HP0253A-CS	Moisture	T	3	0 g	5.23 g	3.75 g		
680-88067-A-7	HP0023B-CS	Moisture	T	4	0 g	4.38 g	2.98 g		
680-88067-A-6	HP0023A-CS	Moisture	T	5	0 g	4.46 g	3.10 g		
680-88067-A-5	FM0301A-CS	Moisture	T	6	0 g	4.24 g	3.20 g		
680-88067-A-4	CV0558B-CS-SP	Moisture	T	7	0 g	4.34 g	2.70 g		
680-88067-A-3	CV0558A-CS-SP	Moisture	T	8	0 g	5.32 g	3.37 g		
680-88067-A-2	CV0552B-CS-SP	Moisture	T	9	0 g	5.17 g	3.61 g		
680-88067-A-2 MS	CV0552B-CS-SP	Moisture	T	9	0 g	5.17 g	3.61 g		
680-88067-A-2 MSD	CV0552B-CS-SP	Moisture	T	9	0 g	5.17 g	3.61 g		
680-88067-A-1	CV0552A-CS-SP	Moisture	T	10	0 g	4.44 g	2.98 g		
680-88067-A-20	CV0341B-CS-SP	Moisture	T	11	0 g	4.64 g	3.03 g		
680-88067-A-19	CV0341A-CS-SP	Moisture	T	12	0 g	6.30 g	4.25 g		
680-88067-A-16	CV0388A-CS	Moisture	T	13	0 g	4.14 g	2.91 g		
680-88067-A-15	CV0339B-CS-SP	Moisture	T	14	0 g	4.19 g	3.06 g		
680-88067-A-14	CV0339A-CS-SP	Moisture	T	15	0 g	4.74 g	3.48 g		
680-88067-A-13	CV0281B-CS	Moisture	T	16	0 g	4.37 g	3.63 g		
680-88067-A-12	CV0281A-CS	Moisture	T	17	0 g	4.56 g	3.80 g		
680-88067-A-11	HP0255A-CS	Moisture	T	18	0 g	4.55 g	3.59 g		
680-88067-A-21 MS		Moisture	T	30	0 g	5.93 g	4.76 g		
680-88067-A-21 MSD		Moisture	T	30	0 g	5.93 g	4.76 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.11.13

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.: 680-88067-1

SDG No.: 68088067-1

Batch Number: 135227 Batch Start Date: 03/11/13 07:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

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.: 680-88067-1

SDG No.: 68088067-1

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			
680-88067-A-17	CV0388A-CSD	Moisture	T	0 g	4.552 g	3.377 g			
680-88067-A-18	CV0388B-CS	Moisture	T	0 g	4.06 g	2.77 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 59568

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Avenue Removal		AL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney	2005148-1356	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
(b) (6)		
CLIENT NAME	CLIENT E-MAIL	
(b) (6)		
CLIENT ADDRESS		
(b) (6)		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LCAM	REQUIRED ANALYSIS: RCRA 8	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/5/13	1048	CV0399B-CS-SP										
	0955	CV0552A-CS-SP	C		✓			X				
	1010	CV0552B-CS-SP	C		✓			X	X			
	0853	CV0558A-CS-SP	C		✓			X				
	0905	CV0558B-CS-SP	C		✓			X				
	0840	FM0301A-CS	C		✓			X				
	1050	HP0023A-CS	C		✓			X				
	11:00	HP0023B-CS	C		✓			X				
	1240	~~HP0~~ HP0253A-CS	C		✓			X				
	1250	HP0253B-CS	C		✓			X				
	1250	HP0253B-CSD	C		✓			X				
	1300	HP0255A-CS	C		✓			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/6/13	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 ○		680 88067	2.8 C

TAL8240-680 (1008)

Serial Number 59567

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 Avenue Removal		AL	2	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney	2005148 1356	

CLIENT (SITE) PM | CLIENT PHONE | CLIENT FAX

(b) (6)

CLIENT NAME | CLIENT E-MAIL

(b) (6)

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: LLPAH; 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, ...)	LLPAH	RCRA 8	REMARKS
3/5/13	0910	CVØ281A-CS	C		✓			X		
	0920	CVØ281B-CS	C		✓			X		
	1244	CVØ339A-CS-SP	C		✓			X		
	1254	CVØ339B-CS-SP	C		✓			X		
	10:10	CVØ388A-CS	C		✓			X		
	10:10	CVØ388A-CSD	C		✓			X		
	10:20	CVØ388B-CS	C		✓			X	X	
	1307	CVØ341A-CS-SP	C		✓			X		
	1315	CVØ341B-CS-SP	C		✓			X	X	
	1038	CVØ399A-CS-SP	C		✓			X		
	1048	CVØ399B-CS-SP	C		✓			X		
	~~0955~~	~~CVØ552A-CS-SP~~								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/6/13	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 ○		680-88067	2.8°

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
SDG Number: 68088067-1

Login Number: 88067
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
SDG Number: 68088067-1

Login Number: 88067
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: 680-88067-1
TestAmerica Sample Delivery Group: 68088067-1
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:
3/19/2013 9:00:30 AM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-88067-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88067-1

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 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0552A-CS-SP (680-88067-1), CV0552B-CS-SP (680-88067-2), CV0558A-CS-SP (680-88067-3), CV0558B-CS-SP (680-88067-4), FM0301A-CS (680-88067-5), HP0023A-CS (680-88067-6), HP0023B-CS (680-88067-7), HP0253A-CS (680-88067-8), HP0253B-CS (680-88067-9), HP0253B-CSD (680-88067-10), HP0255A-CS (680-88067-11), CV0281A-CS (680-88067-12), CV0281B-CS (680-88067-13), CV0339A-CS-SP (680-88067-14), CV0339B-CS-SP (680-88067-15), CV0388A-CS (680-88067-16), CV0388A-CSD (680-88067-17), CV0388B-CS (680-88067-18), CV0341A-CS-SP (680-88067-19) and CV0341B-CS-SP (680-88067-20) 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, 03/11/2013 and 03/13/2013 and analyzed on 03/12/2013, 03/13/2013 and 03/14/2013.

Samples CV0552B-CS-SP (680-88067-2)[4X], HP0023A-CS (680-88067-6)[20X], HP0023A-CS (680-88067-6)[4X], HP0023A-CS (680-88067-6)[50X], HP0023B-CS (680-88067-7)[4X], HP0253B-CS (680-88067-9)[4X], CV0339A-CS-SP (680-88067-14)[4X], CV0339B-CS-SP (680-88067-15)[4X], CV0388A-CS (680-88067-16)[4X], CV0388A-CSD (680-88067-17)[4X], CV0388B-CS (680-88067-18)[4X] and CV0341B-CS-SP (680-88067-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0552B-CS-SP (680-88067-2) in batch 660-135452.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88067-1	CV0552A-CS-SP	Solid	03/05/13 09:55	03/07/13 09:44
680-88067-2	CV0552B-CS-SP	Solid	03/05/13 10:10	03/07/13 09:44
680-88067-3	CV0558A-CS-SP	Solid	03/05/13 08:53	03/07/13 09:44
680-88067-4	CV0558B-CS-SP	Solid	03/05/13 09:05	03/07/13 09:44
680-88067-5	FM0301A-CS	Solid	03/05/13 08:40	03/07/13 09:44
680-88067-6	HP0023A-CS	Solid	03/05/13 10:50	03/07/13 09:44
680-88067-7	HP0023B-CS	Solid	03/05/13 11:00	03/07/13 09:44
680-88067-8	HP0253A-CS	Solid	03/05/13 12:40	03/07/13 09:44
680-88067-9	HP0253B-CS	Solid	03/05/13 12:50	03/07/13 09:44
680-88067-10	HP0253B-CSD	Solid	03/05/13 12:50	03/07/13 09:44
680-88067-11	HP0255A-CS	Solid	03/05/13 13:00	03/07/13 09:44
680-88067-12	CV0281A-CS	Solid	03/05/13 09:10	03/07/13 09:44
680-88067-13	CV0281B-CS	Solid	03/05/13 09:20	03/07/13 09:44
680-88067-14	CV0339A-CS-SP	Solid	03/05/13 12:44	03/07/13 09:44
680-88067-15	CV0339B-CS-SP	Solid	03/05/13 12:54	03/07/13 09:44
680-88067-16	CV0388A-CS	Solid	03/05/13 10:10	03/07/13 09:44
680-88067-17	CV0388A-CSD	Solid	03/05/13 10:10	03/07/13 09:44
680-88067-18	CV0388B-CS	Solid	03/05/13 10:20	03/07/13 09:44
680-88067-19	CV0341A-CS-SP	Solid	03/05/13 13:07	03/07/13 09:44
680-88067-20	CV0341B-CS-SP	Solid	03/05/13 13:15	03/07/13 09:44

Method Summary

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds he 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: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0552A-CS-SP

Lab Sample ID: 680-88067-1
Date Collected: 03/05/13 09:55
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 67.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Acenaphthylene	9.7	J	59	7.4	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Anthracene	19		12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[a]anthracene	100		12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[a]pyrene	84		15	7.7	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[b]fluoranthene	170		18	9.0	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[g,h,i]perylene	64		30	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Benzo[k]fluoranthene	63		12	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Chrysene	140		13	6.7	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Dibenz(a,h)anthracene	20	J	30	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Fluoranthene	150		30	5.9	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Fluorene	8.7	J	30	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Indeno[1,2,3-cd]pyrene	59		30	11	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
1-Methylnaphthalene	69		59	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
2-Methylnaphthalene	100		59	11	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Naphthalene	97		59	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Phenanthrene	130		12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1
Pyrene	140		30	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*03/08/13 12:51*	*03/12/13 15:53*	*1*

Client Sample ID: CV0552B-CS-SP

Lab Sample ID: 680-88067-2
Date Collected: 03/05/13 10:10
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	570	U	570	110	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Acenaphthylene	51	J F	230	29	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Anthracene	69	F	48	24	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[a]anthracene	180	F	46	22	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[a]pyrene	80	F	59	30	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[b]fluoranthene	200	F	70	35	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[g,h,i]perylene	120	F	110	25	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Benzo[k]fluoranthene	57	F	46	21	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Chrysene	380	F	51	26	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Dibenz(a,h)anthracene	57	J	110	23	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Fluoranthene	190	F	110	23	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Fluorene	64	J F	110	23	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Indeno[1,2,3-cd]pyrene	83	J F	110	41	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
1-Methylnaphthalene	920	F	230	25	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
2-Methylnaphthalene	1200	F	230	41	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Naphthalene	820	F	230	25	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Phenanthrene	570		46	22	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4
Pyrene	220	F	110	21	ug/Kg	☼	03/11/13 13:49	03/13/13 17:24	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*		*30 - 130*	*03/11/13 13:49*	*03/13/13 17:24*	*4*

Client Sample ID: CV0558A-CS-SP

Lab Sample ID: 680-88067-3

Date Collected: 03/05/13 08:53
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 63.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Acenaphthylene	**9.6**	**J**	63	7.9	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Anthracene	**47**		13	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[a]anthracene	**400**		13	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[a]pyrene	**430**		16	8.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[b]fluoranthene	**750**		19	9.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[g,h,i]perylene	**340**		32	7.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Benzo[k]fluoranthene	**290**		13	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Chrysene	**420**		14	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Dibenz(a,h)anthracene	**110**		32	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Fluoranthene	**570**		32	6.3	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Fluorene	**20**	**J**	32	6.5	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Indeno[1,2,3-cd]pyrene	**270**		32	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
1-Methylnaphthalene	**36**	**J**	63	7.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
2-Methylnaphthalene	**34**	**J**	63	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Naphthalene	**45**	**J**	63	7.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Phenanthrene	**290**		13	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1
Pyrene	**520**		32	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/08/13 12:51*	*03/12/13 16:11*	*1*

Client Sample ID: CV0558B-CS-SP

Lab Sample ID: 680-88067-4

Date Collected: 03/05/13 09:05
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 62.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Acenaphthylene	64	U	64	8.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Anthracene	14	U	14	6.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[a]anthracene	**28**		13	6.3	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[a]pyrene	**20**		17	8.4	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[b]fluoranthene	**32**		20	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[g,h,i]perylene	**17**	**J**	32	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Benzo[k]fluoranthene	**17**		13	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Chrysene	**24**		14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Dibenz(a,h)an hracene	32	U	32	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Fluoranthene	**26**	**J**	32	6.4	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Fluorene	32	U	32	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Indeno[1,2,3-cd]pyrene	**15**	**J**	32	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
1-Methylnaphthalene	**9.6**	**J**	64	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
2-Methylnaphthalene	**12**	**J**	64	11	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Naphthalene	**26**	**J**	64	7.1	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Phenanthrene	**25**		13	6.3	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1
Pyrene	**28**	**J**	32	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/08/13 12:51*	*03/12/13 16:30*	*1*

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: FM0301A-CS

Lab Sample ID: 680-88067-5
Date Collected: 03/05/13 08:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 75.5

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 12:51	03/12/13 17:07	1
Acenaphthylene	11	J	52	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Anthracene	14		11	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[a]anthracene	82		10	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[a]pyrene	71		14	6.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[b]fluoranthene	130		16	8.0	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[g,h,i]perylene	60		26	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Benzo[k]fluoranthene	46		10	4.7	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Chrysene	100		12	5.9	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Dibenz(a,h)anthracene	18	J	26	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Fluoranthene	130		26	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Fluorene	14	J	26	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Indeno[1,2,3-cd]pyrene	39		26	9.3	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
1-Methylnaphthalene	41	J	52	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
2-Methylnaphthalene	51	J	52	9.3	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Naphthalene	58		52	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Phenanthrene	110		10	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1
Pyrene	120		26	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*03/08/13 12:51*	*03/12/13 17:07*	*1*

Client Sample ID: HP0023A-CS

Lab Sample ID: 680-88067-6
Date Collected: 03/05/13 10:50
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	9800		580	120	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Acenaphthylene	270		230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Dibenz(a,h)anthracene	7600		120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Fluorene	8100		120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
1-Methylnaphthalene	1000		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
2-Methylnaphthalene	1300		230	41	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4
Naphthalene	2800		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 17:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/08/13 12:51*	*03/12/13 17:25*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	16000		240	120	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[a]anthracene	42000		230	110	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[a]pyrene	33000		300	150	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[b]fluoranthene	52000		350	180	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[g,h,i]perylene	23000		580	130	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Benzo[k]fluoranthene	17000		230	100	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Chrysene	36000		260	130	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Indeno[1,2,3-cd]pyrene	21000		580	200	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20
Phenanthrene	59000		230	110	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20

Client Sample ID: HP0023A-CS

Lab Sample ID: 680-88067-6

Date Collected: 03/05/13 10:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 69.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**68000**		580	110	ug/Kg	☼	03/08/13 12:51	03/14/13 12:40	20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**110000**		1400	290	ug/Kg	☼	03/08/13 12:51	03/14/13 14:10	50

Client Sample ID: HP0023B-CS

Lab Sample ID: 680-88067-7

Date Collected: 03/05/13 11:00
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 68.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**130**	**J**	590	120	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Acenaphthylene	230	U	230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Anthracene	**260**		49	25	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[a]anthracene	**620**		47	23	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[a]pyrene	**510**		61	30	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[b]fluoranthene	**830**		71	36	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[g,h,i]perylene	**410**		120	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Benzo[k]fluoranthene	**350**		47	21	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Chrysene	**610**		53	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Dibenz(a,h)anthracene	**90**	**J**	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Fluoranthene	**1200**		120	23	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Fluorene	**110**	**J**	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Indeno[1,2,3-cd]pyrene	**370**		120	42	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
1-Methylnaphthalene	**110**	**J**	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
2-Methylnaphthalene	**100**	**J**	230	42	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Naphthalene	**150**	**J**	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Phenanthrene	**930**		47	23	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4
Pyrene	**1000**		120	22	ug/Kg	☼	03/08/13 12:51	03/12/13 17:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/08/13 12:51*	*03/12/13 17:43*	*4*

Client Sample ID: HP0253A-CS

Lab Sample ID: 680-88067-8

Date Collected: 03/05/13 12:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 71.7

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 12:51	03/12/13 18:01	1
Acenaphthylene	**9.4**	**J**	55	6.9	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Anthracene	**22**		12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[a]anthracene	**40**		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[a]pyrene	**35**		14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[b]fluoranthene	**93**		17	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[g,h,i]perylene	**33**		28	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Benzo[k]fluoranthene	**32**		11	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Chrysene	**81**		12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Dibenz(a,h)anthracene	**16**	**J**	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1

Client Sample ID: HP0253A-CS

Lab Sample ID: 680-88067-8
Date Collected: 03/05/13 12:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**58**		28	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Fluorene	28	U	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Indeno[1,2,3-cd]pyrene	**27**	**J**	28	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
1-Methylnaphthalene	**63**		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
2-Methylnaphthalene	**58**		55	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Naphthalene	**72**		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Phenanthrene	**78**		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1
Pyrene	**66**		28	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:01*	*1*

Client Sample ID: HP0253B-CS

Lab Sample ID: 680-88067-9
Date Collected: 03/05/13 12:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Acenaphthylene	**41**	**J**	210	26	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Anthracene	**45**		43	22	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[a]anthracene	**140**		41	20	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[a]pyrene	**120**		54	27	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[b]fluoranthene	**250**		63	31	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[g,h,i]perylene	**110**		100	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Benzo[k]fluoranthene	**86**		41	19	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Chrysene	**260**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Dibenz(a,h)anthracene	**44**	**J**	100	21	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Fluoranthene	**210**		100	21	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Fluorene	**33**	**J**	100	21	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Indeno[1,2,3-cd]pyrene	**100**		100	37	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
1-Methylnaphthalene	**1400**		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
2-Methylnaphthalene	**1900**		210	37	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Naphthalene	**1300**		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Phenanthrene	**640**		41	20	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4
Pyrene	**230**		100	19	ug/Kg	☼	03/08/13 12:51	03/12/13 18:20	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:20*	*4*

Client Sample ID: HP0253B-CSD

Lab Sample ID: 680-88067-10
Date Collected: 03/05/13 12:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 71.2

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 12:51	03/12/13 18:38	1
Acenaphthylene	55	U	55	6.9	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Anthracene	**7.5**	**J**	12	5.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[a]anthracene	**36**		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1

Client Sample ID: HP0253B-CSD

Lab Sample ID: 680-88067-10

Date Collected: 03/05/13 12:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 71.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	23		14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[b]fluoranthene	46		17	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[g,h,i]perylene	19	J	28	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Benzo[k]fluoranthene	14		11	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Chrysene	40		12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Dibenz(a,h)anthracene	10	J	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Fluoranthene	39		28	5.5	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Fluorene	9.4	J	28	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Indeno[1,2,3-cd]pyrene	15	J	28	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
1-Methylnaphthalene	69		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
2-Methylnaphthalene	75		55	9.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Naphthalene	72		55	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Phenanthrene	59		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1
Pyrene	40		28	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:38*	*1*

Client Sample ID: HP0255A-CS

Lab Sample ID: 680-88067-11

Date Collected: 03/05/13 13:00
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Acenaphthylene	9.3	J	51	6.4	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Anthracene	8.6	J	11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[a]anthracene	70		10	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[a]pyrene	80		13	6.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[b]fluoranthene	160		16	7.8	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[g,h,i]perylene	85		25	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Benzo[k]fluoranthene	58		10	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Chrysene	100		11	5.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Dibenz(a,h)anthracene	27		25	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Fluoranthene	95		25	5.1	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Fluorene	25	U	25	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Indeno[1,2,3-cd]pyrene	56		25	9.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
1-Methylnaphthalene	28	J	51	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
2-Methylnaphthalene	44	J	51	9.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Naphthalene	53		51	5.6	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Phenanthrene	73		10	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1
Pyrene	93		25	4.7	ug/Kg	☼	03/08/13 12:51	03/12/13 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*03/08/13 12:51*	*03/12/13 18:56*	*1*

Client Sample ID: CV0281A-CS

Lab Sample ID: 680-88067-12

Date Collected: 03/05/13 09:10
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Acenaphthylene	**31**	**J**	48	6.0	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Anthracene	**32**		10	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[a]anthracene	**220**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[a]pyrene	**250**		12	6.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[b]fluoranthene	**450**		15	7.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[g,h,i]perylene	**200**		24	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Benzo[k]fluoranthene	**130**		9.5	4.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Chrysene	**290**		11	5.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Dibenz(a,h)anthracene	**53**		24	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Fluoranthene	**360**		24	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Fluorene	**21**	**J**	24	4.9	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Indeno[1,2,3-cd]pyrene	**150**		24	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
1-Methylnaphthalene	**62**		48	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
2-Methylnaphthalene	**91**		48	8.5	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Naphthalene	**71**		48	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Phenanthrene	**240**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1
Pyrene	**370**		24	4.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*03/08/13 12:51*	*03/12/13 19:15*	*1*

Client Sample ID: CV0281B-CS

Lab Sample ID: 680-88067-13

Date Collected: 03/05/13 09:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 83.1

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 12:51	03/12/13 19:33	1
Acenaphthylene	**7.1**	**J**	47	5.9	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Anthracene	**12**		9.9	5.0	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[a]anthracene	**130**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[a]pyrene	**160**		12	6.1	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[b]fluoranthene	**240**		14	7.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[g,h,i]perylene	**130**		24	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Benzo[k]fluoranthene	**98**		9.5	4.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Chrysene	**150**		11	5.3	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Dibenz(a,h)anthracene	**35**		24	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Fluoranthene	**160**		24	4.7	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Fluorene	**7.3**	**J**	24	4.8	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Indeno[1,2,3-cd]pyrene	**97**		24	8.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
1-Methylnaphthalene	**47**		47	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
2-Methylnaphthalene	**52**		47	8.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Naphthalene	**53**		47	5.2	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Phenanthrene	**91**		9.5	4.6	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1
Pyrene	**170**		24	4.4	ug/Kg	☼	03/08/13 12:51	03/12/13 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*03/08/13 12:51*	*03/12/13 19:33*	*1*

Client Sample ID: CV0339A-CS-SP

Lab Sample ID: 680-88067-14

Date Collected: 03/05/13 12:44
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Anthracene	**46**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[a]anthracene	**400**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[a]pyrene	**390**		56	28	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[b]fluoranthene	**570**		66	33	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[g,h,i]perylene	**270**		110	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Benzo[k]fluoranthene	**230**		43	20	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Chrysene	**400**		49	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Dibenz(a,h)anthracene	**81**	**J**	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Fluoranthene	**530**		110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Fluorene	110	U	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Indeno[1,2,3-cd]pyrene	**230**		110	39	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
1-Methylnaphthalene	**62**	**J**	220	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
2-Methylnaphthalene	**96**	**J**	220	39	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Naphthalene	**85**	**J**	220	24	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Phenanthrene	**270**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4
Pyrene	**540**		110	20	ug/Kg	☼	03/08/13 12:51	03/12/13 19:51	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*03/08/13 12:51*	*03/12/13 19:51*	*4*

Client Sample ID: CV0339B-CS-SP

Lab Sample ID: 680-88067-15

Date Collected: 03/05/13 12:54
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 73.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Acenaphthylene	**130**	**J**	210	27	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Anthracene	**270**		45	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[a]anthracene	**5000**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[a]pyrene	**6000**		55	28	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[b]fluoranthene	**9000**		65	32	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[g,h,i]perylene	**3300**		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Benzo[k]fluoranthene	**3000**		43	19	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Chrysene	**5200**		48	24	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Dibenz(a,h)anthracene	**1000**		110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Fluoranthene	**5800**		110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Fluorene	**62**	**J**	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Indeno[1,2,3-cd]pyrene	**2900**		110	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
1-Methylnaphthalene	**88**	**J**	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
2-Methylnaphthalene	**120**	**J**	210	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Naphthalene	**170**	**J**	210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Phenanthrene	**1200**		43	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4
Pyrene	**6600**		110	20	ug/Kg	☼	03/08/13 12:51	03/12/13 20:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*03/08/13 12:51*	*03/12/13 20:10*	*4*

Client Sample ID: CV0388A-CS

Lab Sample ID: 680-88067-16

Date Collected: 03/05/13 10:10
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 70.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	J	570	110	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Acenaphthylene	54	J	230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Anthracene	270		48	24	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[a]anthracene	780		46	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[a]pyrene	650		59	30	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[b]fluoranthene	1000		70	35	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[g,h,i]perylene	400		110	25	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Benzo[k]fluoranthene	410		46	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Chrysene	760		51	26	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Dibenz(a,h)anthracene	170		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Fluoranthene	1200		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Fluorene	140		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Indeno[1,2,3-cd]pyrene	410		110	41	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
1-Methylnaphthalene	330		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
2-Methylnaphthalene	350		230	41	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Naphthalene	280		230	25	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Phenanthrene	1300		46	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4
Pyrene	1200		110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*03/08/13 12:51*	*03/12/13 20:28*	*4*

Client Sample ID: CV0388A-CSD

Lab Sample ID: 680-88067-17

Date Collected: 03/05/13 10:10
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 74.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Acenaphthylene	74	J	210	26	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Anthracene	84		44	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[a]anthracene	420		42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[a]pyrene	330		55	27	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[b]fluoranthene	690		64	32	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[g,h,i]perylene	270		110	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Benzo[k]fluoranthene	270		42	19	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Chrysene	550		48	24	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Dibenz(a,h)anthracene	100	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Fluoranthene	470		110	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Fluorene	28	J	110	22	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Indeno[1,2,3-cd]pyrene	150		110	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
1-Methylnaphthalene	210		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
2-Methylnaphthalene	250		210	38	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Naphthalene	210		210	23	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Phenanthrene	350		42	21	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4
Pyrene	560		110	20	ug/Kg	☼	03/08/13 12:51	03/12/13 20:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*03/08/13 12:51*	*03/12/13 20:46*	*4*

Client Sample ID: CV0388B-CS

Lab Sample ID: 680-88067-18

Date Collected: 03/05/13 10:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 68.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Acenaphthylene	**46**	**J**	230	29	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Anthracene	**76**		49	24	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[a]anthracene	**350**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[a]pyrene	**300**		60	30	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[b]fluoranthene	**600**		71	35	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[g,h,i]perylene	**240**		120	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Benzo[k]fluoranthene	**200**		46	21	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Chrysene	**390**		52	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Dibenz(a,h)anthracene	**91**	**J**	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Fluoranthene	**500**		120	23	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Fluorene	**39**	**J**	120	24	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Indeno[1,2,3-cd]pyrene	**210**		120	41	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
1-Methylnaphthalene	**130**	**J**	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
2-Methylnaphthalene	**200**	**J**	230	41	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Naphthalene	**170**	**J**	230	26	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Phenanthrene	**390**		46	23	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4
Pyrene	**570**		120	21	ug/Kg	☼	03/08/13 12:51	03/12/13 21:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*03/08/13 12:51*	*03/12/13 21:05*	*4*

Client Sample ID: CV0341A-CS-SP

Lab Sample ID: 680-88067-19

Date Collected: 03/05/13 13:07
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 67.5

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	29	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Acenaphthylene	**52**	**J**	58	7.3	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Anthracene	**31**		12	6.1	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[a]anthracene	**190**		12	5.7	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[a]pyrene	**220**		15	7.6	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[b]fluoranthene	**370**		18	8.9	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[g,h,i]perylene	**160**		29	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Benzo[k]fluoranthene	**150**		12	5.3	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Chrysene	**250**		13	6.6	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Dibenz(a,h)anthracene	**55**		29	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Fluoranthene	**250**		29	5.8	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Fluorene	**14**	**J**	29	6.0	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Indeno[1,2,3-cd]pyrene	**130**		29	10	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
1-Methylnaphthalene	**120**		58	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
2-Methylnaphthalene	**150**		58	10	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Naphthalene	**140**		58	6.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Phenanthrene	**150**		12	5.7	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1
Pyrene	**250**		29	5.4	ug/Kg	☼	03/13/13 12:00	03/14/13 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*03/13/13 12:00*	*03/14/13 15:15*	*1*

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0341B-CS-SP
Date Collected: 03/05/13 13:15
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-20
Matrix: Solid
Percent Solids: 65.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Acenaphthylene	**93**	**J**	240	30	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Anthracene	**69**		51	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[a]anthracene	**600**		48	24	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[a]pyrene	**830**		63	31	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[b]fluoranthene	**1500**		74	37	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[g,h,i]perylene	**1400**		120	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Benzo[k]fluoranthene	**610**		48	22	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Chrysene	**780**		54	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Dibenz(a,h)anthracene	**360**		120	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Fluoranthene	**970**		120	24	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Fluorene	**36**	**J**	120	25	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Indeno[1,2,3-cd]pyrene	**970**		120	43	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
1-Methylnaphthalene	**99**	**J**	240	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
2-Methylnaphthalene	**130**	**J**	240	43	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Naphthalene	**200**	**J**	240	27	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Phenanthrene	**520**		48	24	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4
Pyrene	**920**		120	22	ug/Kg	☼	03/13/13 12:00	03/14/13 15:33	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*03/13/13 12:00*	*03/14/13 15:33*	*4*

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

Lab Sample ID: MB 660-135207/1-A
Matrix: Solid
Analysis Batch: 135316

Client Sample ID: Method Blank
Prep Type: Total/NA
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
Matrix: Solid
Analysis Batch: 135316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
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
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

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

Lab Sample ID: LCS 660-135207/2-A
Matrix: Solid
Analysis Batch: 135316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135207

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	77		30 - 130

Lab Sample ID: MB 660-135265/1-A
Matrix: Solid
Analysis Batch: 135452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Fluorene	20	U	20	4.1	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Naphthalene	40	U	40	4.4	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/11/13 13:49	03/13/13 11:27	1
Pyrene	20	U	20	3.7	ug/Kg		03/11/13 13:49	03/13/13 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	51		30 - 130	03/11/13 13:49	03/13/13 11:27	1

Lab Sample ID: LCS 660-135265/2-A
Matrix: Solid
Analysis Batch: 135452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	648	349		ug/Kg		54	39 - 130
Acenaphthylene	648	355		ug/Kg		55	38 - 130
Anthracene	648	409		ug/Kg		63	37 - 130
Benzo[a]anthracene	648	470		ug/Kg		73	40 - 130
Benzo[a]pyrene	648	404		ug/Kg		62	49 - 130
Benzo[b]fluoranthene	648	403		ug/Kg		62	37 - 130
Benzo[g,h,i]perylene	648	423		ug/Kg		65	32 - 130
Benzo[k]fluoranthene	648	461		ug/Kg		71	32 - 130
Chrysene	648	425		ug/Kg		66	41 - 130
Dibenz(a,h)an hracene	648	443		ug/Kg		68	27 - 130
Fluoranthene	648	477		ug/Kg		74	40 - 130
Fluorene	648	336		ug/Kg		52	40 - 130
Indeno[1,2,3-cd]pyrene	648	437		ug/Kg		67	30 - 130
1-Methylnaphthalene	648	433		ug/Kg		67	31 - 130

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

Lab Sample ID: LCS 660-135265/2-A
Matrix: Solid
Analysis Batch: 135452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135265

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Methylnaphthalene			648	408		ug/Kg		63	33 - 130		
Naphthalene			648	400		ug/Kg		62	36 - 130		
Phenanthrene			648	403		ug/Kg		62	42 - 130		
Pyrene			648	406		ug/Kg		63	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*55*		*30 - 130*

Lab Sample ID: 680-88067-2 MS
Matrix: Solid
Analysis Batch: 135452

Client Sample ID: CV0552B-CS-SP
Prep Type: Total/NA
Prep Batch: 135265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	570	U	949	366	J	ug/Kg	☼	39	39 - 130		
Acenaphthylene	51	J F	949	256	F	ug/Kg	☼	22	38 - 130		
Anthracene	69	F	949	380	F	ug/Kg	☼	33	37 - 130		
Benzo[a]anthracene	180	F	949	609		ug/Kg	☼	45	40 - 130		
Benzo[a]pyrene	80	F	949	202	F	ug/Kg	☼	13	49 - 130		
Benzo[b]fluoranthene	200	F	949	382	F	ug/Kg	☼	20	37 - 130		
Benzo[g,h,i]perylene	120	F	949	308	F	ug/Kg	☼	19	32 - 130		
Benzo[k]fluoranthene	57	F	949	289	F	ug/Kg	☼	24	32 - 130		
Chrysene	380	F	949	623	F	ug/Kg	☼	25	41 - 130		
Dibenz(a,h)an hracene	57	J	949	333		ug/Kg	☼	29	27 - 130		
Fluoranthene	190	F	949	522	F	ug/Kg	☼	35	40 - 130		
Fluorene	64	J F	949	499		ug/Kg	☼	46	40 - 130		
Indeno[1,2,3-cd]pyrene	83	J F	949	322	F	ug/Kg	☼	25	30 - 130		
1-Methylnaphthalene	920	F	949	1450		ug/Kg	☼	56	31 - 130		
2-Methylnaphthalene	1200	F	949	1250	F	ug/Kg	☼	6	33 - 130		
Naphthalene	820	F	949	945	F	ug/Kg	☼	13	36 - 130		
Phenanthrene	570		949	1060		ug/Kg	☼	51	42 - 130		
Pyrene	220	F	949	597	F	ug/Kg	☼	40	44 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*46*		*30 - 130*

Lab Sample ID: 680-88067-2 MSD
Matrix: Solid
Analysis Batch: 135452

Client Sample ID: CV0552B-CS-SP
Prep Type: Total/NA
Prep Batch: 135265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	570	U	952	461	J	ug/Kg	☼	48	39 - 130	23	40
Acenaphthylene	51	J F	952	256	F	ug/Kg	☼	22	38 - 130	0	40
Anthracene	69	F	952	408	F	ug/Kg	☼	36	37 - 130	7	40
Benzo[a]anthracene	180	F	952	547	F	ug/Kg	☼	38	40 - 130	11	40
Benzo[a]pyrene	80	F	952	239	F	ug/Kg	☼	17	49 - 130	17	40
Benzo[b]fluoranthene	200	F	952	464	F	ug/Kg	☼	28	37 - 130	19	40
Benzo[g,h,i]perylene	120	F	952	320	F	ug/Kg	☼	21	32 - 130	4	40
Benzo[k]fluoranthene	57	F	952	248	F	ug/Kg	☼	20	32 - 130	15	40

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

Lab Sample ID: 680-88067-2 MSD
Matrix: Solid
Analysis Batch: 135452

Client Sample ID: CV0552B-CS-SP
Prep Type: Total/NA
Prep Batch: 135265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	380	F	952	648	F	ug/Kg	☼	28	41 - 130	4	40
Dibenz(a,h)an hracene	57	J	952	351		ug/Kg	☼	31	27 - 130	5	40
Fluoranthene	190	F	952	619		ug/Kg	☼	45	40 - 130	17	40
Fluorene	64	J F	952	415	F	ug/Kg	☼	37	40 - 130	18	40
Indeno[1,2,3-cd]pyrene	83	J F	952	315	F	ug/Kg	☼	24	30 - 130	2	40
1-Methylnaphthalene	920	F	952	985	F	ug/Kg	☼	7	31 - 130	38	40
2-Methylnaphthalene	1200	F	952	963	F	ug/Kg	☼	-24	33 - 130	26	40
Naphthalene	820	F	952	765	F	ug/Kg	☼	-6	36 - 130	21	40
Phenanthrene	570		952	1000		ug/Kg	☼	45	42 - 130	6	40
Pyrene	220	F	952	660		ug/Kg	☼	47	44 - 130	10	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*52*		*30 - 130*

Lab Sample ID: MB 660-135343/1-A
Matrix: Solid
Analysis Batch: 135453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Dibenz(a,h)an hracene	19	U	19	4.0	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Fluorene	19	U	19	4.0	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Naphthalene	39	U	39	4.3	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/13/13 12:00	03/14/13 12:12	1
Pyrene	19	U	19	3.6	ug/Kg		03/13/13 12:00	03/14/13 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*03/13/13 12:00*	*03/14/13 12:12*	*1*

Lab Sample ID: LCS 660-135343/2-A
Matrix: Solid
Analysis Batch: 135453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	484		ug/Kg		74	39 - 130
Acenaphthylene	656	504		ug/Kg		77	38 - 130

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

Lab Sample ID: LCS 660-135343/2-A
Matrix: Solid
Analysis Batch: 135453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	656	524		ug/Kg		80	37 - 130
Benzo[a]anthracene	656	524		ug/Kg		80	40 - 130
Benzo[a]pyrene	656	477		ug/Kg		73	49 - 130
Benzo[b]fluoranthene	656	541		ug/Kg		82	37 - 130
Benzo[g,h,i]perylene	656	487		ug/Kg		74	32 - 130
Benzo[k]fluoranthene	656	514		ug/Kg		78	32 - 130
Chrysene	656	502		ug/Kg		76	41 - 130
Dibenz(a,h)an hracene	656	513		ug/Kg		78	27 - 130
Fluoranthene	656	532		ug/Kg		81	40 - 130
Fluorene	656	524		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	656	468		ug/Kg		71	30 - 130
1-Methylnaphthalene	656	542		ug/Kg		83	31 - 130
2-Methylnaphthalene	656	532		ug/Kg		81	33 - 130
Naphthalene	656	510		ug/Kg		78	36 - 130
Phenanthrene	656	499		ug/Kg		76	42 - 130
Pyrene	656	526		ug/Kg		80	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*79*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 135207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-1	CV0552A-CS-SP	Total/NA	Solid	3546	
680-88067-3	CV0558A-CS-SP	Total/NA	Solid	3546	
680-88067-4	CV0558B-CS-SP	Total/NA	Solid	3546	
680-88067-5	FM0301A-CS	Total/NA	Solid	3546	
680-88067-6	HP0023A-CS	Total/NA	Solid	3546	
680-88067-6 - DL	HP0023A-CS	Total/NA	Solid	3546	
680-88067-6 - DL2	HP0023A-CS	Total/NA	Solid	3546	
680-88067-7	HP0023B-CS	Total/NA	Solid	3546	
680-88067-8	HP0253A-CS	Total/NA	Solid	3546	
680-88067-9	HP0253B-CS	Total/NA	Solid	3546	
680-88067-10	HP0253B-CSD	Total/NA	Solid	3546	
680-88067-11	HP0255A-CS	Total/NA	Solid	3546	
680-88067-12	CV0281A-CS	Total/NA	Solid	3546	
680-88067-13	CV0281B-CS	Total/NA	Solid	3546	
680-88067-14	CV0339A-CS-SP	Total/NA	Solid	3546	
680-88067-15	CV0339B-CS-SP	Total/NA	Solid	3546	
680-88067-16	CV0388A-CS	Total/NA	Solid	3546	
680-88067-17	CV0388A-CSD	Total/NA	Solid	3546	
680-88067-18	CV0388B-CS	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: 135265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-2	CV0552B-CS-SP	Total/NA	Solid	3546	
680-88067-2 MS	CV0552B-CS-SP	Total/NA	Solid	3546	
680-88067-2 MSD	CV0552B-CS-SP	Total/NA	Solid	3546	
LCS 660-135265/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135265/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-1	CV0552A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88067-3	CV0558A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88067-4	CV0558B-CS-SP	Total/NA	Solid	8270C LL	135207
680-88067-5	FM0301A-CS	Total/NA	Solid	8270C LL	135207
680-88067-6	HP0023A-CS	Total/NA	Solid	8270C LL	135207
680-88067-7	HP0023B-CS	Total/NA	Solid	8270C LL	135207
680-88067-8	HP0253A-CS	Total/NA	Solid	8270C LL	135207
680-88067-9	HP0253B-CS	Total/NA	Solid	8270C LL	135207
680-88067-10	HP0253B-CSD	Total/NA	Solid	8270C LL	135207
680-88067-11	HP0255A-CS	Total/NA	Solid	8270C LL	135207
680-88067-12	CV0281A-CS	Total/NA	Solid	8270C LL	135207
680-88067-13	CV0281B-CS	Total/NA	Solid	8270C LL	135207
680-88067-14	CV0339A-CS-SP	Total/NA	Solid	8270C LL	135207
680-88067-15	CV0339B-CS-SP	Total/NA	Solid	8270C LL	135207
680-88067-16	CV0388A-CS	Total/NA	Solid	8270C LL	135207
680-88067-17	CV0388A-CSD	Total/NA	Solid	8270C LL	135207
680-88067-18	CV0388B-CS	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

GC/MS Semi VOA (Continued)

Prep Batch: 135343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-19	CV0341A-CS-SP	Total/NA	Solid	3546	
680-88067-20	CV0341B-CS-SP	Total/NA	Solid	3546	
LCS 660-135343/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135343/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-6 - DL	HP0023A-CS	Total/NA	Solid	8270C LL	135207
680-88067-6 - DL2	HP0023A-CS	Total/NA	Solid	8270C LL	135207

Analysis Batch: 135452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-2	CV0552B-CS-SP	Total/NA	Solid	8270C LL	135265
680-88067-2 MS	CV0552B-CS-SP	Total/NA	Solid	8270C LL	135265
680-88067-2 MSD	CV0552B-CS-SP	Total/NA	Solid	8270C LL	135265
LCS 660-135265/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135265
MB 660-135265/1-A	Method Blank	Total/NA	Solid	8270C LL	135265

Analysis Batch: 135453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-19	CV0341A-CS-SP	Total/NA	Solid	8270C LL	135343
680-88067-20	CV0341B-CS-SP	Total/NA	Solid	8270C LL	135343
LCS 660-135343/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135343
MB 660-135343/1-A	Method Blank	Total/NA	Solid	8270C LL	135343

General Chemistry

Analysis Batch: 135227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-1	CV0552A-CS-SP	Total/NA	Solid	Moisture	
680-88067-2	CV0552B-CS-SP	Total/NA	Solid	Moisture	
680-88067-2 MS	CV0552B-CS-SP	Total/NA	Solid	Moisture	
680-88067-2 MSD	CV0552B-CS-SP	Total/NA	Solid	Moisture	
680-88067-3	CV0558A-CS-SP	Total/NA	Solid	Moisture	
680-88067-4	CV0558B-CS-SP	Total/NA	Solid	Moisture	
680-88067-5	FM0301A-CS	Total/NA	Solid	Moisture	
680-88067-6	HP0023A-CS	Total/NA	Solid	Moisture	
680-88067-7	HP0023B-CS	Total/NA	Solid	Moisture	
680-88067-8	HP0253A-CS	Total/NA	Solid	Moisture	
680-88067-9	HP0253B-CS	Total/NA	Solid	Moisture	
680-88067-10	HP0253B-CSD	Total/NA	Solid	Moisture	
680-88067-11	HP0255A-CS	Total/NA	Solid	Moisture	
680-88067-12	CV0281A-CS	Total/NA	Solid	Moisture	
680-88067-13	CV0281B-CS	Total/NA	Solid	Moisture	
680-88067-14	CV0339A-CS-SP	Total/NA	Solid	Moisture	
680-88067-15	CV0339B-CS-SP	Total/NA	Solid	Moisture	
680-88067-16	CV0388A-CS	Total/NA	Solid	Moisture	
680-88067-19	CV0341A-CS-SP	Total/NA	Solid	Moisture	
680-88067-20	CV0341B-CS-SP	Total/NA	Solid	Moisture	
MB 660-135227/1	Method Blank	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 135255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88067-17	CV0388A-CSD	Total/NA	Solid	Moisture	
680-88067-18	CV0388B-CS	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: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0552A-CS-SP

Lab Sample ID: 680-88067-1
Date Collected: 03/05/13 09:55
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 67.1

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 15:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0552B-CS-SP

Lab Sample ID: 680-88067-2
Date Collected: 03/05/13 10:10
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			135265	03/11/13 13:49	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135452	03/13/13 17:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0558A-CS-SP

Lab Sample ID: 680-88067-3
Date Collected: 03/05/13 08:53
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 63.3

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 16:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0558B-CS-SP

Lab Sample ID: 680-88067-4
Date Collected: 03/05/13 09:05
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 62.2

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 16:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: FM0301A-CS

Lab Sample ID: 680-88067-5
Date Collected: 03/05/13 08:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 75.5

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 17:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: HP0023A-CS

Lab Sample ID: 680-88067-6
Date Collected: 03/05/13 10:50
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			135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135316	03/12/13 17:25	SCC	TAL TAM
Total/NA	Prep	3546	DL		135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	135407	03/14/13 12:40	SCC	TAL TAM
Total/NA	Prep	3546	DL2		135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL2	50	135407	03/14/13 14:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0023B-CS

Lab Sample ID: 680-88067-7
Date Collected: 03/05/13 11:00
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 68.0

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 17:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0253A-CS

Lab Sample ID: 680-88067-8
Date Collected: 03/05/13 12:40
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 71.7

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 18:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0253B-CS

Lab Sample ID: 680-88067-9
Date Collected: 03/05/13 12:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135316	03/12/13 18:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0253B-CSD

Lab Sample ID: 680-88067-10
Date Collected: 03/05/13 12:50
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 71.2

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 18:38	SCC	TAL TAM

Client Sample ID: HP0253B-CSD

Lab Sample ID: 680-88067-10

Date Collected: 03/05/13 12:50
Matrix: Solid
Date Received: 03/07/13 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: HP0255A-CS

Lab Sample ID: 680-88067-11

Date Collected: 03/05/13 13:00
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 78.9

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 18:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0281A-CS

Lab Sample ID: 680-88067-12

Date Collected: 03/05/13 09:10
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 83.3

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 19:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0281B-CS

Lab Sample ID: 680-88067-13

Date Collected: 03/05/13 09:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 83.1

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 19:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0339A-CS-SP

Lab Sample ID: 680-88067-14

Date Collected: 03/05/13 12:44
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 73.4

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 19:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0339B-CS-SP

Lab Sample ID: 680-88067-15

Date Collected: 03/05/13 12:54
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 73.0

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 20:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0388A-CS

Lab Sample ID: 680-88067-16

Date Collected: 03/05/13 10:10
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 70.3

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 20:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Client Sample ID: CV0388A-CSD

Lab Sample ID: 680-88067-17

Date Collected: 03/05/13 10:10
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135207	03/08/13 12:51	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135316	03/12/13 20:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135255	03/11/13 07:55	AG	TAL TAM

Client Sample ID: CV0388B-CS

Lab Sample ID: 680-88067-18

Date Collected: 03/05/13 10:20
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 68.2

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 21:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135255	03/11/13 07:57	AG	TAL TAM

Client Sample ID: CV0341A-CS-SP

Lab Sample ID: 680-88067-19

Date Collected: 03/05/13 13:07
Matrix: Solid
Date Received: 03/07/13 09:44
Percent Solids: 67.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135453	03/14/13 15:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

Client Sample ID: CV0341B-CS-SP
Date Collected: 03/05/13 13:15
Date Received: 03/07/13 09:44

Lab Sample ID: 680-88067-20
Matrix: Solid
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135343	03/13/13 12:00	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135453	03/14/13 15:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135227	03/11/13 07:26	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
SDG Number: 68088067-1

Login Number: 88067
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88067-1
SDG Number: 68088067-1

Login Number: 88067
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	

Certification Summary

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

TestAmerica Job ID: 680-88067-1
SDG: 68088067-1

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: 680-88067-1
SDG: 68088067-1

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