REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-88811-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	03/27/2013 & 03/28/2013
Reviewer:	Karen Marie Trujillo	Date:	04/15/2013
Concurrence[2]:	Sarah Choyke	Date:	04/24/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 032613-RB-shovel (680-88766-23).	

[1] All analytical work subcontracted to TestAmerica of Tampa, FL
[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 032613-RB-shovel (680-88766-23) was collected during the week of 3/25/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88766-2.	
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?	✓			CV1039A-CSD (680-88811-23) is a field duplicate of CV1039A-CS (680-88811-22).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **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.	✓			• Instrument ID: BSMA5973 • Initial Calibration: 04/09/2013 • ICV: 04/09/13 @ 13:51 • Instrument ID: BSMC5973 • Initial Calibration: 04/02/2013 • ICV: 04/02/13 @ 15:34 • CCV: 04/08/13 @ 12:56 • CCV: 04/09/13 @ 11:47 • CCV: 04/10/13 @ 12:10	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no 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		✓		ICV of 04/02/13 @ 15:34, instrument BSMC5973: • Benzo(a)pyrene @ -24.3%D (Lab: ≤35, Project: ≤20), 75.5%R • Benzo(b)fluoranthene @ -21.1%D (Lab: ≤35, Project: ≤20), 79%R • Chrysene @ -23.5%D (Lab: ≤35, Project: ≤20), 76.5%R	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				• Pyrene @ -21.4%D (Lab: ≤35, Project: ≤20), 78.5%R A negative bias is indicated by the ICV percent differences and the above-mentioned analytes were detected in associated samples[3]; therefore, J flag results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 136127: 680-88811-22 (CV1039A-CS), MS/MSD • Prep Batch 136189: 680-88811-44 (CV1119A-CS), MS/MSD. Lab sample 680-88811-44 is a project-specific sample (CV1119A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-88811-3.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-		✓		CV1039A-CS (680-88811-22): • Anthracene @ -72 and -93 %R (37-130), J-flag • Benzo[a]anthracene @ -242 and -272 %R (40-130). An evaluation of interference is not possible[4]. • Benzo[a]pyrene @ -215 and -243 %R (49-130), J-flag • Benzo[b]fluoranthene @ -217 and -248 %R (37-130). An evaluation of interference is not possible[4]. • Benzo[g,h,i] perylene @ -139 and -155 % R (32-130), J-flag	J

[3] All samples, except 680-88811-22 DL (CV1039A-CS DL)
[4] Native sample concentration is more than four times the spike concentration.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results				• Benzo[k]fluoranthene @ -68 and -87 % R (32-130), J-flag • Chrysene @ -256 and -276 %R (41-130). An evaluation of interference is not possible[4]. • Dibenzo(a,h)anthracene @ 0.9 and 0.6 % R (27-130), J-flag • Fluoranthene @ -334 and -429 (40-130). An evaluation of interference is not possible[4]. • Indeno[1,2,3-cd]pyrene @ -106 and -124 %R (30-130), J-flag • Phenanthrene @ -106 and -189 (42-130). An evaluation of interference is not possible[4]. • Pyrene @ -236 and -302 %R (44-130). An evaluation of interference is not possible[4].	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples 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		✓		CV1039A-CS (680-88811-22): • 2-Methylnaphthalene @ 42 %RPD (≤40). J-Flag • Naphthalene @ 41 %RPD (≤40). J-Flag	J
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-88811-2
SDG: 68088811-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88811-21	CV1036B-CS	Solid	03/27/13 12:40	03/29/13 09:45
680-88811-22	CV1039A-CS	Solid	03/27/13 12:40	03/29/13 09:45
680-88811-23	CV1039A-CSD	Solid	03/27/13 12:40	03/29/13 09:45
680-88811-24	CV1039B-CS	Solid	03/27/13 12:50	03/29/13 09:45
680-88811-25	CV1040A-CS	Solid	03/27/13 12:55	03/29/13 09:45
680-88811-26	CV1042A-CS	Solid	03/27/13 13:12	03/29/13 09:45
680-88811-27	CV1366A-CS	Solid	03/27/13 13:10	03/29/13 09:45
680-88811-28	CV1366B-CS	Solid	03/27/13 13:20	03/29/13 09:45
680-88811-29	CV1043A-CS	Solid	03/27/13 14:15	03/29/13 09:45
680-88811-30	CV1043B-CS	Solid	03/27/13 14:25	03/29/13 09:45
680-88811-31	CV1049A-CS	Solid	03/27/13 14:10	03/29/13 09:45
680-88811-32	CV1049B-CS	Solid	03/27/13 14:15	03/29/13 09:45
680-88811-33	CV1042B-CS	Solid	03/27/13 13:18	03/29/13 09:45
680-88811-34	CV1042C-CS	Solid	03/27/13 13:25	03/29/13 09:45
680-88811-35	CV1047A-CS	Solid	03/27/13 14:50	03/29/13 09:45
680-88811-36	CV1047B-CS	Solid	03/27/13 14:59	03/29/13 09:45
680-88811-37	CV1050A-CS	Solid	03/27/13 14:30	03/29/13 09:45
680-88811-38	CV1050B-CS	Solid	03/27/13 14:35	03/29/13 09:45
680-88811-45	CV1119B-CS	Solid	03/28/13 09:25	03/29/13 09:45
680-88811-46	CV1119C-GS	Solid	03/28/13 09:35	03/29/13 09:45

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1039A-CS (680-88811-22)		RL	CV1039A-CSD (680-88811-23)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	150	J	160	86	J	120	µg/kg	700	NA	64	280	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	120		64	120		47	µg/kg	277.5	NA	0	111	None, absolute difference ≤ 2x Avg RL
Anthracene	2100		13	180		9.8	µg/kg	57	**168**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)anthracene	4800		13	860		9.8	µg/kg	57	**139**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	4200		17	720		12	µg/kg	72.5	**141**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	5200		78	1100		14	µg/kg	230	**130**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	2900		32	490		23	µg/kg	137.5	**142**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(k)fluoranthene	2200		13	480		9.3	µg/kg	55.75	**128**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	4800		14	810		10	µg/kg	60	**142**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	940		32	140		23	µg/kg	137.5	**148**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluoranthene	7300		130	1400		23	µg/kg	382.5	**136**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	250		32	59		23	µg/kg	137.5	NA	**191**	**55**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	2700		32	460		23	µg/kg	137.5	**142**	NA	NA	**J/UJ-flag, RPD > 50%**
1-Methylnaphthalene	170		64	110		47	µg/kg	277.5	NA	60	111	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	170		64	160		47	µg/kg	277.5	NA	10	111	None, absolute difference ≤ 2x Avg RL
Naphthalene	260		64	400		47	µg/kg	277.5	NA	**140**	**111**	**J/UJ-flag, absolute difference > 2x Avg RL**
Phenanthrene	4500		13	780		9.3	µg/kg	55.75	**141**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	6000		130	1300		23	µg/kg	382.5	**129**	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: 680-88811-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88811-2

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 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6º C and 3.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1036B-CS (680-88811-21), CV1039A-CS (680-88811-22), CV1039A-CSD (680-88811-23), CV1039B-CS (680-88811-24), CV1040A-CS (680-88811-25), CV1042A-CS (680-88811-26), CV1366A-CS (680-88811-27), CV1366B-CS (680-88811-28), CV1043A-CS (680-88811-29), CV1043B-CS (680-88811-30), CV1049A-CS (680-88811-31), CV1049B-CS (680-88811-32), CV1042B-CS (680-88811-33), CV1042C-CS (680-88811-34), CV1047A-CS (680-88811-35), CV1047B-CS (680-88811-36), CV1050A-CS (680-88811-37), CV1050B-CS (680-88811-38), CV1119B-CS (680-88811-45) and CV1119C-GS (680-88811-46) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/04/2013 and 04/08/2013 and analyzed on 04/08/2013, 04/09/2013 and 04/10/2013.

Samples CV1039A-CS (680-88811-22)[4X], CV1049A-CS (680-88811-31)[4X], CV1049B-CS (680-88811-32)[4X], CV1047A-CS (680-88811-35)[4X], CV1050A-CS (680-88811-37)[4X], CV1050B-CS (680-88811-38)[4X], CV1119B-CS (680-88811-45)[4X] and CV1119C-GS (680-88811-46)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recvored the recovery criteria for the MS/MSD of sample CV1039A-CS (680-88811-22) in batch 660-136269. 2-Methylnaphthalene and Naphthalene exceeded the rpd limit.

Several analytes recovered the recovery criteria for the MS/MSD of sample 680-88811-44 in batch 660-136263.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1036B-CS

Lab Sample ID: 680-88811-21
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Acenaphthylene	**15**	**J**	50	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Anthracene	**20**		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[a]anthracene	**240**		9.9	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[a]pyrene	**220**		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[b]fluoranthene	**450**		15	7.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[g,h,i]perylene	**220**		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[k]fluoranthene	**140**		9.9	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Chrysene	**250**		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Dibenz(a,h)anthracene	**80**		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Fluoranthene	**260**		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Indeno[1,2,3-cd]pyrene	**220**		25	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
1-Methylnaphthalene	**37**	**J**	50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
2-Methylnaphthalene	**55**		50	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Naphthalene	**40**	**J**	50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Phenanthrene	**110**		9.9	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Pyrene	**240**		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/04/13 13:28*	*04/08/13 16:30*	*1*

Client Sample ID: CV1039A-CS

Lab Sample ID: 680-88811-22
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 62.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**150**	**J**	160	32	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Acenaphthylene	**120**		64	8.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Anthracene	**2100**	**F**	13	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[a]anthracene	**4800**	**4**	13	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[a]pyrene	**4200**	**F**	17	8.3	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[g,h,i]perylene	**2900**	**F**	32	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[k]fluoranthene	**2200**	**F**	13	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Chrysene	**4800**	**4**	14	7.2	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Dibenz(a,h)anthracene	**940**	**F**	32	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Fluorene	**250**		32	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Indeno[1,2,3-cd]pyrene	**2700**	**F**	32	11	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
1-Methylnaphthalene	**170**		64	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
2-Methylnaphthalene	**170**	**F**	64	11	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Naphthalene	**260**	**F**	64	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Phenanthrene	**4500**	**4**	13	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/04/13 13:28*	*04/08/13 14:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**5200**	**4**	78	39	ug/Kg	☼	04/04/13 13:28	04/09/13 15:35	4

Client Sample ID: CV1039A-CS

Lab Sample ID: 680-88811-22

Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 62.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	7300	4	130	26	ug/Kg	☼	04/04/13 13:28	04/09/13 15:35	4
Pyrene	6000	4	130	24	ug/Kg	☼	04/04/13 13:28	04/09/13 15:35	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/04/13 13:28*	*04/09/13 15:35*	*4*

Client Sample ID: CV1039A-CSD

Lab Sample ID: 680-88811-23

Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	86	J	120	23	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Acenaphthylene	120		47	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Anthracene	180		9.8	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[a]anthracene	860		9.3	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[a]pyrene	720		12	6.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[b]fluoranthene	1100		14	7.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[g,h,i]perylene	490		23	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[k]fluoranthene	480		9.3	4.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Chrysene	810		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Dibenz(a,h)anthracene	140		23	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Fluoranthene	1400		23	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Fluorene	59		23	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Indeno[1,2,3-cd]pyrene	460		23	8.3	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
1-Methylnaphthalene	110		47	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
2-Methylnaphthalene	160		47	8.3	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Naphthalene	400		47	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Phenanthrene	780		9.3	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Pyrene	1300		23	4.3	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*04/04/13 13:28*	*04/08/13 16:49*	*1*

Client Sample ID: CV1039B-CS

Lab Sample ID: 680-88811-24

Date Collected: 03/27/13 12:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

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	☼	04/04/13 13:28	04/08/13 17:07	1
Acenaphthylene	33	J	48	6.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Anthracene	38		10	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[a]anthracene	190		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[a]pyrene	220		13	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[b]fluoranthene	350		15	7.4	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[g,h,i]perylene	270		24	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[k]fluoranthene	140		9.7	4.4	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Chrysene	260		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Dibenz(a,h)anthracene	41		24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1

Client Sample ID: CV1039B-CS

Lab Sample ID: 680-88811-24

Date Collected: 03/27/13 12:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	300		24	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Fluorene	20	J	24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Indeno[1,2,3-cd]pyrene	190		24	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
1-Methylnaphthalene	130		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
2-Methylnaphthalene	170		48	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Naphthalene	180		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Phenanthrene	240		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Pyrene	290		24	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/04/13 13:28*	*04/08/13 17:07*	*1*

Client Sample ID: CV1040A-CS

Lab Sample ID: 680-88811-25

Date Collected: 03/27/13 12:55
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 70.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	95	J	140	28	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Acenaphthylene	64		56	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Anthracene	250		12	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[a]anthracene	910		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[a]pyrene	790		15	7.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[b]fluoranthene	1300		17	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[g,h,i]perylene	600		28	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[k]fluoranthene	610		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Chrysene	980		13	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Dibenz(a,h)anthracene	190		28	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Fluoranthene	1800		28	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Fluorene	110		28	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Indeno[1,2,3-cd]pyrene	560		28	10	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
1-Methylnaphthalene	240		56	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
2-Methylnaphthalene	230		56	10	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Naphthalene	210		56	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Phenanthrene	1200		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Pyrene	1500		28	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/04/13 13:28*	*04/08/13 17:25*	*1*

Client Sample ID: CV1042A-CS

Lab Sample ID: 680-88811-26

Date Collected: 03/27/13 13:12
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	40	J	130	27	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Acenaphthylene	53		53	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Anthracene	100		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[a]anthracene	480		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1

Client Sample ID: CV1042A-CS

Lab Sample ID: 680-88811-26

Date Collected: 03/27/13 13:12
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	400		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[b]fluoranthene	610		16	8.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[g,h,i]perylene	260		27	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[k]fluoranthene	270		11	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Chrysene	510		12	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Dibenz(a,h)anthracene	60		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Fluoranthene	850		27	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Fluorene	33		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Indeno[1,2,3-cd]pyrene	240		27	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
1-Methylnaphthalene	540		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
2-Methylnaphthalene	800		53	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Naphthalene	630		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Phenanthrene	650		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Pyrene	700		27	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*04/04/13 13:28*	*04/08/13 17:44*	*1*

Client Sample ID: CV1366A-CS

Lab Sample ID: 680-88811-27

Date Collected: 03/27/13 13:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Acenaphthylene	22	J	53	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Anthracene	32		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[a]anthracene	210		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[a]pyrene	180		14	6.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[b]fluoranthene	310		16	8.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[g,h,i]perylene	150		26	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[k]fluoranthene	120		11	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Chrysene	230		12	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Dibenz(a,h)an hracene	26	U	26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Fluoranthene	310		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Fluorene	17	J	26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Indeno[1,2,3-cd]pyrene	120		26	9.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
1-Methylnaphthalene	46	J	53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
2-Methylnaphthalene	65		53	9.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Naphthalene	95		53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Phenanthrene	160		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Pyrene	300		26	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:02*	*1*

Client Sample ID: CV1366B-CS

Lab Sample ID: 680-88811-28

Date Collected: 03/27/13 13:20
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	J	130	25	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Acenaphthylene	32	J	51	6.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Anthracene	70		11	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[a]anthracene	300		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[a]pyrene	260		13	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[b]fluoranthene	430		16	7.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[g,h,i]perylene	190		25	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[k]fluoranthene	190		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Chrysene	310		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Dibenz(a,h)anthracene	57		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Fluoranthene	470		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Fluorene	48		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Indeno[1,2,3-cd]pyrene	170		25	9.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
1-Methylnaphthalene	96		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
2-Methylnaphthalene	150		51	9.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Naphthalene	110		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Phenanthrene	350		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Pyrene	440		25	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:20*	*1*

Client Sample ID: CV1043A-CS

Lab Sample ID: 680-88811-29

Date Collected: 03/27/13 14:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Acenaphthylene	21	J	51	6.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Anthracene	30		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[a]anthracene	180		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[a]pyrene	140		13	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[b]fluoranthene	240		16	7.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[g,h,i]perylene	130		26	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[k]fluoranthene	110		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Chrysene	280		12	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Dibenz(a,h)anthracene	42		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Fluoranthene	220		26	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Fluorene	10	J	26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Indeno[1,2,3-cd]pyrene	80		26	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
1-Methylnaphthalene	320		51	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
2-Methylnaphthalene	180		51	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Naphthalene	130		51	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Phenanthrene	270		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Pyrene	240		26	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:38*	*1*

Client Sample ID: CV1043B-CS

Lab Sample ID: 680-88811-30

Date Collected: 03/27/13 14:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Acenaphthylene	**43**	**J**	53	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Anthracene	**66**		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[a]anthracene	**380**		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[a]pyrene	**340**		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[b]fluoranthene	**560**		16	8.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[g,h,i]perylene	**230**		26	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[k]fluoranthene	**260**		11	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Chrysene	**450**		12	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Dibenz(a,h)anthracene	**80**		26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Fluoranthene	**530**		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Fluorene	**17**	**J**	26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Indeno[1,2,3-cd]pyrene	**230**		26	9.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
1-Methylnaphthalene	**170**		53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
2-Methylnaphthalene	**140**		53	9.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Naphthalene	**93**		53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Phenanthrene	**450**		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Pyrene	**580**		26	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:57*	*1*

Client Sample ID: CV1049A-CS

Lab Sample ID: 680-88811-31

Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**	**J**	120	25	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Acenaphthylene	**21**	**J**	50	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Anthracene	**61**		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[a]anthracene	**1400**		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[a]pyrene	**2200**		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[g,h,i]perylene	**1800**		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[k]fluoranthene	**1400**		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Chrysene	**1800**		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Dibenz(a,h)anthracene	**740**		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Fluoranthene	**1000**		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Fluorene	**28**		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Indeno[1,2,3-cd]pyrene	**1700**		25	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
1-Methylnaphthalene	**130**		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
2-Methylnaphthalene	**140**		50	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Naphthalene	**90**		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Phenanthrene	**460**		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Pyrene	**1200**		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/04/13 13:28*	*04/08/13 19:15*	*1*

Client Sample ID: CV1049A-CS

Lab Sample ID: 680-88811-31
Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3100		61	30	ug/Kg	☼	04/04/13 13:28	04/10/13 14:37	4

Client Sample ID: CV1049B-CS

Lab Sample ID: 680-88811-32
Date Collected: 03/27/13 14:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	J	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Acenaphthylene	470		52	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Anthracene	330		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[a]anthracene	2200		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[a]pyrene	2200		13	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[b]fluoranthene	4100		16	7.9	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[g,h,i]perylene	1300		26	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[k]fluoranthene	1700		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Chrysene	3100		12	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Dibenz(a,h)anthracene	530		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Fluorene	170		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Indeno[1,2,3-cd]pyrene	1400		26	9.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
1-Methylnaphthalene	160		52	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
2-Methylnaphthalene	160		52	9.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Naphthalene	170		52	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*04/04/13 13:28*	*04/08/13 19:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5200		100	21	ug/Kg	☼	04/04/13 13:28	04/10/13 14:55	4
Phenanthrene	4200		41	20	ug/Kg	☼	04/04/13 13:28	04/10/13 14:55	4
Pyrene	3800		100	19	ug/Kg	☼	04/04/13 13:28	04/10/13 14:55	4

Client Sample ID: CV1042B-CS

Lab Sample ID: 680-88811-33
Date Collected: 03/27/13 13:18
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130		120	24	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Acenaphthylene	77		48	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Anthracene	240		10	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[a]anthracene	840		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[a]pyrene	750		13	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[b]fluoranthene	1100		15	7.4	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[g,h,i]perylene	410		24	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[k]fluoranthene	540		9.7	4.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Chrysene	880		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Dibenz(a,h)anthracene	140		24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Fluoranthene	1500		24	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1

Client Sample ID: CV1042B-CS

Lab Sample ID: 680-88811-33
Date Collected: 03/27/13 13:18
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	120		24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Indeno[1,2,3-cd]pyrene	480		24	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
1-Methylnaphthalene	88		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
2-Methylnaphthalene	110		48	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Naphthalene	190		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Phenanthrene	960		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Pyrene	1300		24	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/04/13 13:28*	*04/08/13 19:52*	*1*

Client Sample ID: CV1042C-CS

Lab Sample ID: 680-88811-34
Date Collected: 03/27/13 13:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	43	J	130	27	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Acenaphthylene	79		53	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Anthracene	150		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[a]anthracene	670		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[a]pyrene	630		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[b]fluoranthene	910		16	8.1	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[g,h,i]perylene	430		27	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[k]fluoranthene	470		11	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Chrysene	780		12	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Dibenz(a,h)anthracene	60		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Fluoranthene	1200		27	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Fluorene	50		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Indeno[1,2,3-cd]pyrene	390		27	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
1-Methylnaphthalene	240		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
2-Methylnaphthalene	290		53	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Naphthalene	170		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Phenanthrene	780		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Pyrene	1100		27	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/04/13 13:28*	*04/08/13 20:10*	*1*

Client Sample ID: CV1047A-CS

Lab Sample ID: 680-88811-35
Date Collected: 03/27/13 14:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Anthracene	37	J	42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[a]anthracene	270		40	20	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[a]pyrene	310		52	26	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4

Client Sample ID: CV1047A-CS

Lab Sample ID: 680-88811-35
Date Collected: 03/27/13 14:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	460		61	31	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[g,h,i]perylene	290		100	22	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[k]fluoranthene	150		40	18	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Chrysene	400		45	23	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Dibenz(a,h)anthracene	130		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Fluoranthene	250		100	20	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Fluorene	25	J	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
2-Methylnaphthalene	180	J	200	36	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Naphthalene	120	J	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Phenanthrene	210		40	20	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Pyrene	280		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*04/08/13 06:37*	*04/09/13 15:31*	*4*

Client Sample ID: CV1047B-CS

Lab Sample ID: 680-88811-36
Date Collected: 03/27/13 14:59
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Acenaphthylene	26	J	50	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Anthracene	31		11	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[a]anthracene	280		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[a]pyrene	260		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[b]fluoranthene	490		15	7.7	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[g,h,i]perylene	220		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[k]fluoranthene	230		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Chrysene	340		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Dibenz(a,h)anthracene	87		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Fluoranthene	290		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Fluorene	19	J	25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Indeno[1,2,3-cd]pyrene	190		25	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
1-Methylnaphthalene	110		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
2-Methylnaphthalene	140		50	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Naphthalene	100		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Phenanthrene	190		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Pyrene	310		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/04/13 13:28*	*04/08/13 20:28*	*1*

Client Sample ID: CV1050A-CS

Lab Sample ID: 680-88811-37

Date Collected: 03/27/13 14:30
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	31	J	110	23	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Acenaphthylene	46	U	46	5.7	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Anthracene	85		9.6	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Benzo[a]anthracene	2300		9.2	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Benzo[k]fluoranthene	3300		9.2	4.1	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Chrysene	3400		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Dibenz(a,h)anthracene	1700		23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Fluoranthene	1800		23	4.6	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Fluorene	34		23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Indeno[1,2,3-cd]pyrene	3800		23	8.1	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
1-Methylnaphthalene	66		46	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
2-Methylnaphthalene	76		46	8.1	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Naphthalene	70		46	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Phenanthrene	550		9.2	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Pyrene	1900		23	4.2	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/08/13 06:37*	*04/09/13 15:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	3600		48	24	ug/Kg	☼	04/08/13 06:37	04/10/13 15:42	4
Benzo[b]fluoranthene	7300		56	28	ug/Kg	☼	04/08/13 06:37	04/10/13 15:42	4
Benzo[g,h,i]perylene	4200		92	20	ug/Kg	☼	04/08/13 06:37	04/10/13 15:42	4

Client Sample ID: CV1050B-CS

Lab Sample ID: 680-88811-38

Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Acenaphthylene	57	J	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Anthracene	100		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[a]anthracene	1600		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[a]pyrene	2400		51	26	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[b]fluoranthene	3600		60	30	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[g,h,i]perylene	2300		99	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[k]fluoranthene	1300		40	18	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Chrysene	1900		45	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Dibenz(a,h)anthracene	860		99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Fluoranthene	1100		99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Fluorene	57	J	99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Indeno[1,2,3-cd]pyrene	2200		99	35	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
1-Methylnaphthalene	96	J	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
2-Methylnaphthalene	130	J	200	35	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Naphthalene	160	J	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Phenanthrene	520		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Pyrene	1300		99	18	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4

Client Sample ID: CV1050B-CS

Lab Sample ID: 680-88811-38
Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	103		30 - 130	04/08/13 06:37	04/09/13 16:08	4

Client Sample ID: CV1119B-CS

Lab Sample ID: 680-88811-45
Date Collected: 03/28/13 09:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	93	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Acenaphthylene	450		190	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Anthracene	430		39	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[a]anthracene	1100		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[a]pyrene	790		48	24	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[b]fluoranthene	1300		57	28	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[g,h,i]perylene	570		93	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[k]fluoranthene	770		37	17	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Chrysene	1300		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Dibenz(a,h)anthracene	220		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Fluoranthene	2800		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Fluorene	360		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Indeno[1,2,3-cd]pyrene	570		93	33	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
1-Methylnaphthalene	430		190	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
2-Methylnaphthalene	370		190	33	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Naphthalene	470		190	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Phenanthrene	2700		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Pyrene	2500		93	17	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		30 - 130	04/08/13 06:37	04/09/13 17:21	4

Client Sample ID: CV1119C-GS

Lab Sample ID: 680-88811-46
Date Collected: 03/28/13 09:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.6

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	☼	04/08/13 06:37	04/09/13 17:39	4
Acenaphthylene	140	J	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Anthracene	150		43	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[a]anthracene	850		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[a]pyrene	650		53	26	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[b]fluoranthene	1300		62	31	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[g,h,i]perylene	530		100	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[k]fluoranthene	340		41	18	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Chrysene	1000		46	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Dibenz(a,h)anthracene	140		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Fluoranthene	1100		100	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Fluorene	69	J	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Indeno[1,2,3-cd]pyrene	420		100	36	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
1-Methylnaphthalene	240		200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
2-Methylnaphthalene	210		200	36	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1119C-GS
Date Collected: 03/28/13 09:35
Date Received: 03/29/13 09:45

Lab Sample ID: 680-88811-46
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	250		200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Phenanthrene	500		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Pyrene	1000		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*04/08/13 06:37*	*04/09/13 17:39*	*4*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-88811-2

SDG Number: 68088811-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/10/2013 5:19 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/10/2013

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Table of Contents

Table of Contents

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88811-2

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 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6º C and 3.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1036B-CS (680-88811-21), CV1039A-CS (680-88811-22), CV1039A-CSD (680-88811-23), CV1039B-CS (680-88811-24), CV1040A-CS (680-88811-25), CV1042A-CS (680-88811-26), CV1366A-CS (680-88811-27), CV1366B-CS (680-88811-28), CV1043A-CS (680-88811-29), CV1043B-CS (680-88811-30), CV1049A-CS (680-88811-31), CV1049B-CS (680-88811-32), CV1042B-CS (680-88811-33), CV1042C-CS (680-88811-34), CV1047A-CS (680-88811-35), CV1047B-CS (680-88811-36), CV1050A-CS (680-88811-37), CV1050B-CS (680-88811-38), CV1119B-CS (680-88811-45) and CV1119C-GS (680-88811-46) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/04/2013 and 04/08/2013 and analyzed on 04/08/2013, 04/09/2013 and 04/10/2013.

Samples CV1039A-CS (680-88811-22)[4X], CV1049A-CS (680-88811-31)[4X], CV1049B-CS (680-88811-32)[4X], CV1047A-CS (680-88811-35)[4X], CV1050A-CS (680-88811-37)[4X], CV1050B-CS (680-88811-38)[4X], CV1119B-CS (680-88811-45)[4X] and CV1119C-GS (680-88811-46)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recvored the recovery criteria for the MS/MSD of sample CV1039A-CS (680-88811-22) in batch 660-136269. 2-Methylnaphthalene and Naphthalene exceeded the rpd limit.

Several analytes recovered the recovery criteria for the MS/MSD of sample 680-88811-44 in batch 660-136263.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the sp king amount.

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: 680-88811-2
Sdg Number: 68088811-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88811-21	CV1036B-CS	Solid	03/27/2013 1240	03/29/2013 0945
680-88811-22	CV1039A-CS	Solid	03/27/2013 1240	03/29/2013 0945
680-88811-22MS	CV1039A-CS	Solid	03/27/2013 1240	03/29/2013 0945
680-88811-22MSD	CV1039A-CS	Solid	03/27/2013 1240	03/29/2013 0945
680-88811-23	CV1039A-CSD	Solid	03/27/2013 1240	03/29/2013 0945
680-88811-24	CV1039B-CS	Solid	03/27/2013 1250	03/29/2013 0945
680-88811-25	CV1040A-CS	Solid	03/27/2013 1255	03/29/2013 0945
680-88811-26	CV1042A-CS	Solid	03/27/2013 1312	03/29/2013 0945
680-88811-27	CV1366A-CS	Solid	03/27/2013 1310	03/29/2013 0945
680-88811-28	CV1366B-CS	Solid	03/27/2013 1320	03/29/2013 0945
680-88811-29	CV1043A-CS	Solid	03/27/2013 1415	03/29/2013 0945
680-88811-30	CV1043B-CS	Solid	03/27/2013 1425	03/29/2013 0945
680-88811-31	CV1049A-CS	Solid	03/27/2013 1410	03/29/2013 0945
680-88811-32	CV1049B-CS	Solid	03/27/2013 1415	03/29/2013 0945
680-88811-33	CV1042B-CS	Solid	03/27/2013 1318	03/29/2013 0945
680-88811-34	CV1042C-CS	Solid	03/27/2013 1325	03/29/2013 0945
680-88811-35	CV1047A-CS	Solid	03/27/2013 1450	03/29/2013 0945
680-88811-36	CV1047B-CS	Solid	03/27/2013 1459	03/29/2013 0945
680-88811-37	CV1050A-CS	Solid	03/27/2013 1430	03/29/2013 0945
680-88811-38	CV1050B-CS	Solid	03/27/2013 1435	03/29/2013 0945
680-88811-45	CV1119B-CS	Solid	03/28/2013 0925	03/29/2013 0945
680-88811-46	CV1119C-GS	Solid	03/28/2013 0935	03/29/2013 0945

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
Sdg Number: 68088811-2

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: 680-88811-2
Sdg Number: 68088811-2

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: 680-88811-2
Sdg Number: 68088811-2

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
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
Sdg Number: 68088811-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136127					
LCS 660-136127/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136127/1-A	Method Blank	T	Solid	3546	
680-88811-21	CV1036B-CS	T	Solid	3546	
680-88811-22	CV1039A-CS	T	Solid	3546	
680-88811-22DL	CV1039A-CS	T	Solid	3546	
680-88811-22MS	Matrix Spike	T	Solid	3546	
680-88811-22MSDL	Matrix Spike	T	Solid	3546	
680-88811-22MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88811-22MSDDL	Matrix Spike Duplicate	T	Solid	3546	
680-88811-23	CV1039A-CSD	T	Solid	3546	
680-88811-24	CV1039B-CS	T	Solid	3546	
680-88811-25	CV1040A-CS	T	Solid	3546	
680-88811-26	CV1042A-CS	T	Solid	3546	
680-88811-27	CV1366A-CS	T	Solid	3546	
680-88811-28	CV1366B-CS	T	Solid	3546	
680-88811-29	CV1043A-CS	T	Solid	3546	
680-88811-30	CV1043B-CS	T	Solid	3546	
680-88811-31	CV1049A-CS	T	Solid	3546	
680-88811-31DL	CV1049A-CS	T	Solid	3546	
680-88811-32	CV1049B-CS	T	Solid	3546	
680-88811-32DL	CV1049B-CS	T	Solid	3546	
680-88811-33	CV1042B-CS	T	Solid	3546	
680-88811-34	CV1042C-CS	T	Solid	3546	
680-88811-36	CV1047B-CS	T	Solid	3546	
Prep Batch: 660-136189					
LCS 660-136189/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136189/1-A	Method Blank	T	Solid	3546	
680-88811-35	CV1047A-CS	T	Solid	3546	
680-88811-37	CV1050A-CS	T	Solid	3546	
680-88811-37DL	CV1050A-CS	T	Solid	3546	
680-88811-38	CV1050B-CS	T	Solid	3546	
680-88811-A-44-B MS	Matrix Spike	T	Solid	3546	
680-88811-A-44-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88811-45	CV1119B-CS	T	Solid	3546	
680-88811-46	CV1119C-GS	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
Sdg Number: 68088811-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136263					
LCS 660-136189/2-A	Lab Control Sample	T	Solid	8270C LL	660-136189
MB 660-136189/1-A	Method Blank	T	Solid	8270C LL	660-136189
680-88811-35	CV1047A-CS	T	Solid	8270C LL	660-136189
680-88811-37	CV1050A-CS	T	Solid	8270C LL	660-136189
680-88811-38	CV1050B-CS	T	Solid	8270C LL	660-136189
680-88811-A-44-B MS	Matrix Spike	T	Solid	8270C LL	660-136189
680-88811-A-44-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136189
680-88811-45	CV1119B-CS	T	Solid	8270C LL	660-136189
680-88811-46	CV1119C-GS	T	Solid	8270C LL	660-136189
Analysis Batch:660-136269					
680-88811-22DL	CV1039A-CS	T	Solid	8270C LL	660-136127
680-88811-22MSDL	Matrix Spike	T	Solid	8270C LL	660-136127
680-88811-22MSDDL	Matrix Spike Duplicate	T	Solid	8270C LL	660-136127
Analysis Batch:660-136271					
LCS 660-136127/2-A	Lab Control Sample	T	Solid	8270C LL	660-136127
MB 660-136127/1-A	Method Blank	T	Solid	8270C LL	660-136127
680-88811-21	CV1036B-CS	T	Solid	8270C LL	660-136127
680-88811-22	CV1039A-CS	T	Solid	8270C LL	660-136127
680-88811-22MS	Matrix Spike	T	Solid	8270C LL	660-136127
680-88811-22MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136127
680-88811-23	CV1039A-CSD	T	Solid	8270C LL	660-136127
680-88811-24	CV1039B-CS	T	Solid	8270C LL	660-136127
680-88811-25	CV1040A-CS	T	Solid	8270C LL	660-136127
680-88811-26	CV1042A-CS	T	Solid	8270C LL	660-136127
680-88811-27	CV1366A-CS	T	Solid	8270C LL	660-136127
680-88811-28	CV1366B-CS	T	Solid	8270C LL	660-136127
680-88811-29	CV1043A-CS	T	Solid	8270C LL	660-136127
680-88811-30	CV1043B-CS	T	Solid	8270C LL	660-136127
680-88811-31	CV1049A-CS	T	Solid	8270C LL	660-136127
680-88811-32	CV1049B-CS	T	Solid	8270C LL	660-136127
680-88811-33	CV1042B-CS	T	Solid	8270C LL	660-136127
680-88811-34	CV1042C-CS	T	Solid	8270C LL	660-136127
680-88811-36	CV1047B-CS	T	Solid	8270C LL	660-136127
Analysis Batch:660-136309					
680-88811-31DL	CV1049A-CS	T	Solid	8270C LL	660-136127
680-88811-32DL	CV1049B-CS	T	Solid	8270C LL	660-136127
680-88811-37DL	CV1050A-CS	T	Solid	8270C LL	660-136189

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
Sdg Number: 68088811-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135961					
680-88811-22	CV1039A-CS	T	Solid	Moisture	
680-88811-22MS	Matrix Spike	T	Solid	Moisture	
680-88811-22MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135964					
680-88811-23	CV1039A-CSD	T	Solid	Moisture	
680-88811-30	CV1043B-CS	T	Solid	Moisture	
680-88811-31	CV1049A-CS	T	Solid	Moisture	
680-88811-34	CV1042C-CS	T	Solid	Moisture	
680-88811-35	CV1047A-CS	T	Solid	Moisture	
680-88811-A-44 MS	Matrix Spike	T	Solid	Moisture	
680-88811-A-44 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88811-45	CV1119B-CS	T	Solid	Moisture	
680-88811-A-62 MS	Matrix Spike	T	Solid	Moisture	
680-88811-A-62 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135977					
680-88811-21	CV1036B-CS	T	Solid	Moisture	
680-88811-24	CV1039B-CS	T	Solid	Moisture	
680-88811-25	CV1040A-CS	T	Solid	Moisture	
680-88811-26	CV1042A-CS	T	Solid	Moisture	
680-88811-27	CV1366A-CS	T	Solid	Moisture	
680-88811-28	CV1366B-CS	T	Solid	Moisture	
680-88811-32	CV1049B-CS	T	Solid	Moisture	
680-88811-36	CV1047B-CS	T	Solid	Moisture	
680-88811-37	CV1050A-CS	T	Solid	Moisture	
680-88811-38	CV1050B-CS	T	Solid	Moisture	
680-88811-46	CV1119C-GS	T	Solid	Moisture	
Analysis Batch:660-135992					
LCS 660-135992/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135992/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88811-29	CV1043A-CS	T	Solid	Moisture	
680-88811-33	CV1042B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMA5973 Analysis Batch Number: 136269

Lab Sample ID: IC 660-136269/5 Client Sample ID:

Date Analyzed: 04/09/13 11:04 Lab File ID: 1AD09005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.47	Baseline Event	cantins	04/09/13 12:30
Benzo[g,h,i]perylene	8.65	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/6 Client Sample ID:

Date Analyzed: 04/09/13 11:19 Lab File ID: 1AD09006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.46	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/9 Client Sample ID:

Date Analyzed: 04/09/13 12:03 Lab File ID: 1AD09009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.44	Baseline Event	cantins	04/09/13 12:32

Lab Sample ID: 680-88811-22 DL Client Sample ID: CV1039A-CS DL

Date Analyzed: 04/09/13 15:35 Lab File ID: 1AD09013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	04/09/13 17:06

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/5 Client Sample ID:

Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/13 15:44

Lab Sample ID: IC 660-136048/6 Client Sample ID:

Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:45

Lab Sample ID: IC 660-136048/7 Client Sample ID:

Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:48

Lab Sample ID: IC 660-136048/8 Client Sample ID:

Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:49

Lab Sample ID: ICIS 660-136048/9 Client Sample ID:

Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/10 Client Sample ID:

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:50

Lab Sample ID: IC 660-136048/11 Client Sample ID:

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 15:51

Lab Sample ID: ICV 660-136048/12 Client Sample ID:

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: CCVIS 660-136263/3 Client Sample ID:

Date Analyzed: 04/09/13 11:47 Lab File ID: 1CD09003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 12:08

Lab Sample ID: LCS 660-136189/2-A Client Sample ID:

Date Analyzed: 04/09/13 15:13 Lab File ID: 1CD09014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 14:39

Lab Sample ID: 680-88811-35 Client Sample ID: CV1047A-CS

Date Analyzed: 04/09/13 15:31 Lab File ID: 1CD09015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.67	Analyte Misidentified by the Data System	CARLSONR	04/10/13 14:39
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	CARLSONR	04/10/13 14:39

Lab Sample ID: 680-88811-37 Client Sample ID: CV1050A-CS

Date Analyzed: 04/09/13 15:50 Lab File ID: 1CD09016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:42
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 14:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: 680-88811-38 Client Sample ID: CV1050B-CS

Date Analyzed: 04/09/13 16:08 Lab File ID: 1CD09017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Unspecified	CARLSONR	04/10/13 15:03
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 15:03
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	CARLSONR	04/10/13 15:03

Lab Sample ID: 680-88811-A-44-B MS Client Sample ID:

Date Analyzed: 04/09/13 16:45 Lab File ID: 1CD09019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 15:01

Lab Sample ID: 680-88811-A-44-C MSD Client Sample ID:

Date Analyzed: 04/09/13 17:03 Lab File ID: 1CD09020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 15:01

Lab Sample ID: 680-88811-45 Client Sample ID: CV1119B-CS

Date Analyzed: 04/09/13 17:21 Lab File ID: 1CD09021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	CARLSONR	04/10/13 15:00
Benzo[k]fluoranthene	8.49	Split Peak	CARLSONR	04/10/13 15:00
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136263

Lab Sample ID: 680-88811-46 Client Sample ID: CV1119C-GS

Date Analyzed: 04/09/13 17:39 Lab File ID: 1CD09022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	CARLSONR	04/10/13 14:59
Benzo[k]fluoranthene	8.50	Split Peak	CARLSONR	04/10/13 14:59
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	CARLSONR	04/10/13 14:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136271

Lab Sample ID: CCVIS 660-136271/3 Client Sample ID:

Date Analyzed: 04/08/13 12:56 Lab File ID: 1CD08003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/08/13 13:30

Lab Sample ID: LCS 660-136127/2-A Client Sample ID:

Date Analyzed: 04/08/13 14:04 Lab File ID: 1CD08006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:02

Lab Sample ID: 680-88811-22 Client Sample ID: CV1039A-CS

Date Analyzed: 04/08/13 14:22 Lab File ID: 1CD08007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:07
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:03

Lab Sample ID: 680-88811-22 MS Client Sample ID: CV1039A-CS MS

Date Analyzed: 04/08/13 14:40 Lab File ID: 1CD08008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:04

Lab Sample ID: 680-88811-22 MSD Client Sample ID: CV1039A-CS MSD

Date Analyzed: 04/08/13 14:59 Lab File ID: 1CD08009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:04

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136271

Lab Sample ID: 680-88811-21 Client Sample ID: CV1036B-CS

Date Analyzed: 04/08/13 16:30 Lab File ID: 1CD08014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:13
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:13

Lab Sample ID: 680-88811-23 Client Sample ID: CV1039A-CSD

Date Analyzed: 04/08/13 16:49 Lab File ID: 1CD08015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:14
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:14
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:14

Lab Sample ID: 680-88811-24 Client Sample ID: CV1039B-CS

Date Analyzed: 04/08/13 17:07 Lab File ID: 1CD08016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:15
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:16
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:16

Lab Sample ID: 680-88811-25 Client Sample ID: CV1040A-CS

Date Analyzed: 04/08/13 17:25 Lab File ID: 1CD08017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:19
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:19
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136271

Lab Sample ID: 680-88811-26 Client Sample ID: CV1042A-CS

Date Analyzed: 04/08/13 17:44 Lab File ID: 1CD08018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:22
Benzo[k]fluoranthene	8.51	Split Peak	perrint	04/09/13 14:22
Indeno[1,2,3-cd]pyrene	9.97	Split Peak	perrint	04/09/13 14:23

Lab Sample ID: 680-88811-27 Client Sample ID: CV1366A-CS

Date Analyzed: 04/08/13 18:02 Lab File ID: 1CD08019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:23
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:24
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:24

Lab Sample ID: 680-88811-28 Client Sample ID: CV1366B-CS

Date Analyzed: 04/08/13 18:20 Lab File ID: 1CD08020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:25
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:25
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:26

Lab Sample ID: 680-88811-29 Client Sample ID: CV1043A-CS

Date Analyzed: 04/08/13 18:38 Lab File ID: 1CD08021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:27
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:27
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136271

Lab Sample ID: 680-88811-30 Client Sample ID: CV1043B-CS

Date Analyzed: 04/08/13 18:57 Lab File ID: 1CD08022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:28
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:29
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:29

Lab Sample ID: 680-88811-31 Client Sample ID: CV1049A-CS

Date Analyzed: 04/08/13 19:15 Lab File ID: 1CD08023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:30
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:31

Lab Sample ID: 680-88811-32 Client Sample ID: CV1049B-CS

Date Analyzed: 04/08/13 19:33 Lab File ID: 1CD08024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:31
Benzo[k]fluoranthene	8.51	Split Peak	perrint	04/09/13 14:32
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:32

Lab Sample ID: 680-88811-33 Client Sample ID: CV1042B-CS

Date Analyzed: 04/08/13 19:52 Lab File ID: 1CD08025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:33

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136271

Lab Sample ID: 680-88811-34 Client Sample ID: CV1042C-CS

Date Analyzed: 04/08/13 20:10 Lab File ID: 1CD08026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:33
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:34
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:34

Lab Sample ID: 680-88811-36 Client Sample ID: CV1047B-CS

Date Analyzed: 04/08/13 20:28 Lab File ID: 1CD08027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:35
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:35
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Analysis Batch Number: 136309

Lab Sample ID: CCVIS 660-136309/3 Client Sample ID:

Date Analyzed: 04/10/13 12:10 Lab File ID: 1CD10003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/10/13 12:26

Lab Sample ID: 680-88811-31 DL Client Sample ID: CV1049A-CS DL

Date Analyzed: 04/10/13 14:37 Lab File ID: 1CD10011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/10/13 15:20

Lab Sample ID: 680-88811-37 DL Client Sample ID: CV1050A-CS DL

Date Analyzed: 04/10/13 15:42 Lab File ID: 1CD10013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.50	Split Peak	cantins	04/10/13 16:06

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.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1036B-CS	680-88811-21	75
CV1039A-CS	680-88811-22	68
CV1039A-CS DL	680-88811-22 DL	48
CV1039A-CSD	680-88811-23	79
CV1039B-CS	680-88811-24	61
CV1040A-CS	680-88811-25	68
CV1042A-CS	680-88811-26	72
CV1366A-CS	680-88811-27	84
CV1366B-CS	680-88811-28	66
CV1043A-CS	680-88811-29	80
CV1043B-CS	680-88811-30	74
CV1049A-CS	680-88811-31	65
CV1049B-CS	680-88811-32	85
CV1042B-CS	680-88811-33	60
CV1042C-CS	680-88811-34	67
CV1047A-CS	680-88811-35	83
CV1047B-CS	680-88811-36	73
CV1050A-CS	680-88811-37	69
CV1050B-CS	680-88811-38	103
CV1119B-CS	680-88811-45	70
CV1119C-GS	680-88811-46	92
	MB 660-136127/1-A	94
	MB 660-136189/1-A	77
	LCS 660-136127/2-A	78
	LCS 660-136189/2-A	74
	680-88811-A-44-B MS	50
CV1039A-CS MS	680-88811-22 MS	75
CV1039A-CS MS DL	680-88811-22 MS DL	65
	680-88811-A-44-C MSD	67
CV1039A-CS MSD	680-88811-22 MSD	74
CV1039A-CS MSD DL	680-88811-22 MSD DL	61

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1CD08006.D

Lab ID: LCS 660-136127/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	662	491	74	39-130	
Acenaphthylene	662	536	81	38-130	
Anthracene	662	522	79	37-130	
Benzo[a]anthracene	662	520	79	40-130	
Benzo[a]pyrene	662	470	71	49-130	
Benzo[b]fluoranthene	662	532	80	37-130	
Benzo[g,h,i]perylene	662	514	78	32-130	
Benzo[k]fluoranthene	662	533	81	32-130	
Chrysene	662	502	76	41-130	
Dibenz(a,h)anthracene	662	593	90	27-130	
Fluoranthene	662	512	77	40-130	
Fluorene	662	537	81	40-130	
Indeno[1,2,3-cd]pyrene	662	509	77	30-130	
1-Methylnaphthalene	662	579	88	31-130	
2-Methylnaphthalene	662	486	73	33-130	
Naphthalene	662	499	75	36-130	
Phenanthrene	662	525	79	42-130	
Pyrene	662	515	78	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.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1CD09014.D

Lab ID: LCS 660-136189/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	492	75	39-130	
Acenaphthylene	660	527	80	38-130	
Anthracene	660	503	76	37-130	
Benzo[a]anthracene	660	514	78	40-130	
Benzo[a]pyrene	660	457	69	49-130	
Benzo[b]fluoranthene	660	553	84	37-130	
Benzo[g,h,i]perylene	660	471	71	32-130	
Benzo[k]fluoranthene	660	486	74	32-130	
Chrysene	660	527	80	41-130	
Dibenz(a,h)anthracene	660	515	78	27-130	
Fluoranthene	660	556	84	40-130	
Fluorene	660	512	78	40-130	
Indeno[1,2,3-cd]pyrene	660	481	73	30-130	
1-Methylnaphthalene	660	498	75	31-130	
2-Methylnaphthalene	660	505	77	33-130	
Naphthalene	660	482	73	36-130	
Phenanthrene	660	532	81	42-130	
Pyrene	660	531	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.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1CD09019.D

Lab ID: 680-88811-A-44-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	819	73 J	422	43	39-130	
Acenaphthylene	819	170	486	38	38-130	
Anthracene	819	280	472	23	37-130	F
Benzo[a]anthracene	819	680	832	18	40-130	F
Benzo[a]pyrene	819	610	773	19	49-130	F
Benzo[b]fluoranthene	819	1300	1290	-0.2	37-130	F
Benzo[g,h,i]perylene	819	490	730	29	32-130	F
Benzo[k]fluoranthene	819	310	759	54	32-130	
Chrysene	819	1100	1140	9	41-130	F
Dibenz(a,h)anthracene	819	170	496	40	27-130	
Fluoranthene	819	1200	879	-43	40-130	F
Fluorene	819	87	415	40	40-130	
Indeno[1,2,3-cd]pyrene	819	410	698	35	30-130	
1-Methylnaphthalene	819	1100	778	-41	31-130	F
2-Methylnaphthalene	819	860	659	-25	33-130	F
Naphthalene	819	330	671	41	36-130	
Phenanthrene	819	1500	856	-82	42-130	F
Pyrene	819	1100	1020	-13	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1CD08008.D

Lab ID: 680-88811-22 MS Client ID: CV1039A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1070	150 J	954	75	39-130	
Acenaphthylene	1070	120	864	70	38-130	
Anthracene	1070	2100	1320	-72	37-130	F
Benzo[a]anthracene	1070	4800	2210	-242	40-130	4
Benzo[a]pyrene	1070	4200	1920	-215	49-130	F
Benzo[g,h,i]perylene	1070	2900	1420	-139	32-130	F
Benzo[k]fluoranthene	1070	2200	1520	-68	32-130	F
Chrysene	1070	4800	2050	-256	41-130	4
Dibenz(a,h)anthracene	1070	940	945	0.9	27-130	F
Fluorene	1070	250	1030	73	40-130	
Indeno[1,2,3-cd]pyrene	1070	2700	1530	-106	30-130	F
1-Methylnaphthalene	1070	170	1090	87	31-130	
2-Methylnaphthalene	1070	170	1190	96	33-130	
Naphthalene	1070	260	1190	88	36-130	
Phenanthrene	1070	4500	3360	-106	42-130	4

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.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1AD09014.D

Lab ID: 680-88811-22 MS DL Client ID: CV1039A-CS MS DL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Benzo[b]fluoranthene	1070	5200	2840	-217	37-130	4
Fluoranthene	1070	7300	3780	-334	40-130	4
Pyrene	1070	6000	3530	-236	44-130	4

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1CD09020.D

Lab ID: 680-88811-A-44-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	812	486	51	14	40	39-130	
Acenaphthylene	812	577	50	17	40	38-130	
Anthracene	812	614	41	26	40	37-130	
Benzo[a]anthracene	812	1040	44	23	40	40-130	
Benzo[a]pyrene	812	1120	62	36	40	49-130	
Benzo[b]fluoranthene	812	1820	64	34	40	37-130	
Benzo[g,h,i]perylene	812	977	60	29	40	32-130	
Benzo[k]fluoranthene	812	1050	91	33	40	32-130	
Chrysene	812	1380	38	19	40	41-130	F
Dibenz(a,h)anthracene	812	638	57	25	40	27-130	
Fluoranthene	812	1260	4	36	40	40-130	F
Fluorene	812	479	48	14	40	40-130	
Indeno[1,2,3-cd]pyrene	812	857	55	20	40	30-130	
1-Methylnaphthalene	812	892	-27	14	40	31-130	F
2-Methylnaphthalene	812	845	-2	25	40	33-130	F
Naphthalene	812	729	49	8	40	36-130	
Phenanthrene	812	1120	-50	27	40	42-130	F
Pyrene	812	1370	30	29	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.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1CD08009.D

Lab ID: 680-88811-22 MSD Client ID: CV1039A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1070	786	60	19	40	39-130	
Acenaphthylene	1070	755	60	14	40	38-130	
Anthracene	1070	1090	-93	19	40	37-130	F
Benzo[a]anthracene	1070	1890	-272	16	40	40-130	4
Benzo[a]pyrene	1070	1620	-243	17	40	49-130	F
Benzo[g,h,i]perylene	1070	1240	-155	13	40	32-130	F
Benzo[k]fluoranthene	1070	1310	-87	15	40	32-130	F
Chrysene	1070	1840	-276	11	40	41-130	4
Dibenz(a,h)anthracene	1070	941	0.6	0	40	27-130	F
Fluorene	1070	827	54	22	40	40-130	
Indeno[1,2,3-cd]pyrene	1070	1340	-124	13	40	30-130	F
1-Methylnaphthalene	1070	829	62	27	40	31-130	
2-Methylnaphthalene	1070	779	57	42	40	33-130	F
Naphthalene	1070	785	50	41	40	36-130	F
Phenanthrene	1070	2480	-189	30	40	42-130	4

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.: 680-88811-2

SDG No.: 68088811-2

Matrix: Solid Level: Low Lab File ID: 1AD09015.D

Lab ID: 680-88811-22 MSD DL Client ID: CV1039A-CS MSD DL

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzo[b]fluoranthene	1070	2510	-248	12	40	37-130	4
Fluoranthene	1070	2770	-429	31	40	40-130	4
Pyrene	1070	2820	-302	22	40	44-130	4

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.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1CD08005.D Lab Sample ID: MB 660-136127/1-A

Matrix: Solid Date Extracted: 04/04/2013 13:28

Instrument ID: BSMC5973 Date Analyzed: 04/08/2013 13:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136127/2-A	1CD08006.D	04/08/2013 14:04
CV1039A-CS	680-88811-22	1CD08007.D	04/08/2013 14:22
CV1039A-CS MS	680-88811-22 MS	1CD08008.D	04/08/2013 14:40
CV1039A-CS MSD	680-88811-22 MSD	1CD08009.D	04/08/2013 14:59
CV1036B-CS	680-88811-21	1CD08014.D	04/08/2013 16:30
CV1039A-CSD	680-88811-23	1CD08015.D	04/08/2013 16:49
CV1039B-CS	680-88811-24	1CD08016.D	04/08/2013 17:07
CV1040A-CS	680-88811-25	1CD08017.D	04/08/2013 17:25
CV1042A-CS	680-88811-26	1CD08018.D	04/08/2013 17:44
CV1366A-CS	680-88811-27	1CD08019.D	04/08/2013 18:02
CV1366B-CS	680-88811-28	1CD08020.D	04/08/2013 18:20
CV1043A-CS	680-88811-29	1CD08021.D	04/08/2013 18:38
CV1043B-CS	680-88811-30	1CD08022.D	04/08/2013 18:57
CV1049A-CS	680-88811-31	1CD08023.D	04/08/2013 19:15
CV1049B-CS	680-88811-32	1CD08024.D	04/08/2013 19:33
CV1042B-CS	680-88811-33	1CD08025.D	04/08/2013 19:52
CV1042C-CS	680-88811-34	1CD08026.D	04/08/2013 20:10
CV1047B-CS	680-88811-36	1CD08027.D	04/08/2013 20:28
CV1039A-CS DL	680-88811-22 DL	1AD09013.D	04/09/2013 15:35
CV1039A-CS MS DL	680-88811-22 MS DL	1AD09014.D	04/09/2013 15:50
CV1039A-CS MSD DL	680-88811-22 MSD DL	1AD09015.D	04/09/2013 16:05
CV1049A-CS DL	680-88811-31 DL	1CD10011.D	04/10/2013 14:37
CV1049B-CS DL	680-88811-32 DL	1CD10012.D	04/10/2013 14:55

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1CD09013.D Lab Sample ID: MB 660-136189/1-A

Matrix: Solid Date Extracted: 04/08/2013 06:37

Instrument ID: BSMC5973 Date Analyzed: 04/09/2013 14:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136189/2-A	1CD09014.D	04/09/2013 15:13
CV1047A-CS	680-88811-35	1CD09015.D	04/09/2013 15:31
CV1050A-CS	680-88811-37	1CD09016.D	04/09/2013 15:50
CV1050B-CS	680-88811-38	1CD09017.D	04/09/2013 16:08
	680-88811-A-44-B MS	1CD09019.D	04/09/2013 16:45
	680-88811-A-44-C MSD	1CD09020.D	04/09/2013 17:03
CV1119B-CS	680-88811-45	1CD09021.D	04/09/2013 17:21
CV1119C-GS	680-88811-46	1CD09022.D	04/09/2013 17:39
CV1050A-CS DL	680-88811-37 DL	1CD10013.D	04/10/2013 15:42

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1AD09002.D DFTPP Injection Date: 04/09/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:18

Analysis Batch No.: 136269

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	22.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	24.1	
70	Less than 2.0 % of mass 69	0.2	(0.9)1
127	10.0 - 80.0 % of mass 198	36.0	
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	5.9	
275	10.0 - 60.0 % of mass 198	23.4	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	11.1	
442	Greater than 50.0 % of mass 198	81.3	
443	15.0 - 24.0 % of mass 442	16.7	(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
	ICIS 660-136269/3	1AD09003.D	04/09/2013	10:31
	IC 660-136269/4	1AD09004.D	04/09/2013	10:48
	IC 660-136269/5	1AD09005.D	04/09/2013	11:04
	IC 660-136269/6	1AD09006.D	04/09/2013	11:19
	IC 660-136269/7	1AD09007.D	04/09/2013	11:33
	IC 660-136269/8	1AD09008.D	04/09/2013	11:49
	IC 660-136269/9	1AD09009.D	04/09/2013	12:03
	ICV 660-136269/12	1AD09012.D	04/09/2013	13:51
CV1039A-CS DL	680-88811-22 DL	1AD09013.D	04/09/2013	15:35
CV1039A-CS MS DL	680-88811-22 MS DL	1AD09014.D	04/09/2013	15:50
CV1039A-CS MSD DL	680-88811-22 MSD DL	1AD09015.D	04/09/2013	16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:31

Analysis Batch No.: 136048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.9	
68	Less than 2.0 % of mass 69	0.8	(1.6)1
69	Mass 69 relative abundance	49.9	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	42.2	
197	Less than 2.0 % of mass 198	0.4	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.6	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	10.2	
442	Greater than 50.0 % of mass 198	56.7	
443	15.0 - 24.0 % of mass 442	11.0	(19.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136048/5	1CD02005.D	04/02/2013	13:26
	IC 660-136048/6	1CD02006.D	04/02/2013	13:44
	IC 660-136048/7	1CD02007.D	04/02/2013	14:02
	IC 660-136048/8	1CD02008.D	04/02/2013	14:20
	ICIS 660-136048/9	1CD02009.D	04/02/2013	14:39
	IC 660-136048/10	1CD02010.D	04/02/2013	14:57
	IC 660-136048/11	1CD02011.D	04/02/2013	15:15
	ICV 660-136048/12	1CD02012.D	04/02/2013	15:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1CD08002.D DFTPP Injection Date: 04/08/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 12:39

Analysis Batch No.: 136271

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.2	
68	Less than 2.0 % of mass 69	0.7	(1.5)1
69	Mass 69 relative abundance	50.7	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	10.0 - 80.0 % of mass 198	49.8	
197	Less than 2.0 % of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	19.3	
365	Greater than 1.0 % of mass 198	4.9	
441	Present but less than mass 443	7.4	
442	Greater than 50.0 % of mass 198	52.2	
443	15.0 - 24.0 % of mass 442	9.1	(17.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136271/3	1CD08003.D	04/08/2013	12:56
	MB 660-136127/1-A	1CD08005.D	04/08/2013	13:45
	LCS 660-136127/2-A	1CD08006.D	04/08/2013	14:04
CV1039A-CS	680-88811-22	1CD08007.D	04/08/2013	14:22
CV1039A-CS MS	680-88811-22 MS	1CD08008.D	04/08/2013	14:40
CV1039A-CS MSD	680-88811-22 MSD	1CD08009.D	04/08/2013	14:59
CV1036B-CS	680-88811-21	1CD08014.D	04/08/2013	16:30
CV1039A-CSD	680-88811-23	1CD08015.D	04/08/2013	16:49
CV1039B-CS	680-88811-24	1CD08016.D	04/08/2013	17:07
CV1040A-CS	680-88811-25	1CD08017.D	04/08/2013	17:25
CV1042A-CS	680-88811-26	1CD08018.D	04/08/2013	17:44
CV1366A-CS	680-88811-27	1CD08019.D	04/08/2013	18:02
CV1366B-CS	680-88811-28	1CD08020.D	04/08/2013	18:20
CV1043A-CS	680-88811-29	1CD08021.D	04/08/2013	18:38
CV1043B-CS	680-88811-30	1CD08022.D	04/08/2013	18:57
CV1049A-CS	680-88811-31	1CD08023.D	04/08/2013	19:15
CV1049B-CS	680-88811-32	1CD08024.D	04/08/2013	19:33
CV1042B-CS	680-88811-33	1CD08025.D	04/08/2013	19:52
CV1042C-CS	680-88811-34	1CD08026.D	04/08/2013	20:10
CV1047B-CS	680-88811-36	1CD08027.D	04/08/2013	20:28

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1CD09002.D DFTPP Injection Date: 04/09/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:31

Analysis Batch No.: 136263

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	37.7	
68	Less than 2.0 % of mass 69	0.6	(1.2)1
69	Mass 69 relative abundance	49.2	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	44.8	
197	Less than 2.0 % of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	19.1	
365	Greater than 1.0 % of mass 198	4.5	
441	Present but less than mass 443	12.1	
442	Greater than 50.0 % of mass 198	81.3	
443	15.0 - 24.0 % of mass 442	18.0	(22.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136263/3	1CD09003.D	04/09/2013	11:47
	MB 660-136189/1-A	1CD09013.D	04/09/2013	14:55
	LCS 660-136189/2-A	1CD09014.D	04/09/2013	15:13
CV1047A-CS	680-88811-35	1CD09015.D	04/09/2013	15:31
CV1050A-CS	680-88811-37	1CD09016.D	04/09/2013	15:50
CV1050B-CS	680-88811-38	1CD09017.D	04/09/2013	16:08
	680-88811-A-44-B MS	1CD09019.D	04/09/2013	16:45
	680-88811-A-44-C MSD	1CD09020.D	04/09/2013	17:03
CV1119B-CS	680-88811-45	1CD09021.D	04/09/2013	17:21
CV1119C-GS	680-88811-46	1CD09022.D	04/09/2013	17:39

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab File ID: 1CD10002.D DFTPP Injection Date: 04/10/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:53

Analysis Batch No.: 136309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	39.7	
68	Less than 2.0 % of mass 69	0.4	(0.9)1
69	Mass 69 relative abundance	49.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	46.7	
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	6.9	
275	10.0 - 60.0 % of mass 198	19.9	
365	Greater than 1.0 % of mass 198	4.5	
441	Present but less than mass 443	12.8	
442	Greater than 50.0 % of mass 198	68.7	
443	15.0 - 24.0 % of mass 442	12.9	(18.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136309/3	1CD10003.D	04/10/2013	12:10
CV1049A-CS DL	680-88811-31 DL	1CD10011.D	04/10/2013	14:37
CV1049B-CS DL	680-88811-32 DL	1CD10012.D	04/10/2013	14:55
CV1050A-CS DL	680-88811-37 DL	1CD10013.D	04/10/2013	15:42

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31

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

Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N

Calibration ID: 2879

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1629167	2.59	861420	3.62	1542880	4.57
UPPER LIMIT		3258334	3.09	1722840	4.12	3085760	5.07
LOWER LIMIT		814584	2.09	430710	3.12	771440	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136269/12		1542771	2.59	886874	3.63	1631736	4.58
680-88811-22 DL	CV1039A-CS DL	1918740	2.59	1049218	3.62	1795943	4.58
680-88811-22 MS DL	CV1039A-CS MS DL	1563317	2.59	838392	3.62	1463709	4.57
680-88811-22 MSD DL	CV1039A-CS MSD DL	1722885	2.59	941394	3.62	1578292	4.58

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31

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

Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N

Calibration ID: 2879

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1527423	6.60	1682694	7.68		
UPPER LIMIT		3054846	7.10	3365388	8.18		
LOWER LIMIT		763712	6.10	841347	7.18		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136269/12		1541115	6.60	1781032	7.69		
680-88811-22 DL	CV1039A-CS DL	1612886	6.60	1715111	7.70		
680-88811-22 MS DL	CV1039A-CS MS DL	1353057	6.59	1321286	7.68		
680-88811-22 MSD DL	CV1039A-CS MSD DL	1441092	6.60	1423613	7.67		

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		501011	3.71	361349	4.80	702974	5.75
UPPER LIMIT		1002022	4.21	722698	5.30	1405948	6.25
LOWER LIMIT		250506	3.21	180675	4.30	351487	5.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		649122	3.71	500935	4.80	955391	5.75

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		875378	7.69	942955	8.86		
UPPER LIMIT		1750756	8.19	1885910	9.36		
LOWER LIMIT		437689	7.19	471478	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		1249690	7.69	1306409	8.86		

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: CCVIS 660-136271/3 Date Analyzed: 04/08/2013 12:56

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

Lab File ID (Standard): 1CD08003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		417933	3.69	297412	4.77	556083	5.72
UPPER LIMIT		835866	4.19	594824	5.27	1112166	6.22
LOWER LIMIT		208967	3.19	148706	4.27	278042	5.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136127/1-A		379190	3.69	267981	4.77	495949	5.73
LCS 660-136127/2-A		384820	3.69	277749	4.77	533413	5.72
680-88811-22	CV1039A-CS	441400	3.69	314839	4.77	591426	5.72
680-88811-22 MS	CV1039A-CS MS	452854	3.69	340263	4.77	631160	5.72
680-88811-22 MSD	CV1039A-CS MSD	492885	3.69	341978	4.77	638073	5.72
680-88811-21	CV1036B-CS	433131	3.69	323927	4.77	606194	5.72
680-88811-23	CV1039A-CSD	429676	3.69	325606	4.77	641831	5.72
680-88811-24	CV1039B-CS	440708	3.69	324235	4.77	619075	5.72
680-88811-25	CV1040A-CS	444701	3.69	329140	4.77	598961	5.72
680-88811-26	CV1042A-CS	447438	3.69	335293	4.77	610581	5.72
680-88811-27	CV1366A-CS	449687	3.69	319125	4.77	606447	5.72
680-88811-28	CV1366B-CS	490605	3.69	342078	4.77	661406	5.72
680-88811-29	CV1043A-CS	485435	3.69	359099	4.78	641634	5.72
680-88811-30	CV1043B-CS	463880	3.69	344120	4.77	635632	5.72
680-88811-31	CV1049A-CS	512430	3.69	363098	4.78	676362	5.72
680-88811-32	CV1049B-CS	502055	3.69	357942	4.77	652956	5.72
680-88811-33	CV1042B-CS	483116	3.69	347871	4.77	651454	5.72
680-88811-34	CV1042C-CS	448440	3.69	319333	4.77	592639	5.72
680-88811-36	CV1047B-CS	459457	3.69	329076	4.77	602597	5.72

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: CCVIS 660-136271/3 Date Analyzed: 04/08/2013 12:56

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

Lab File ID (Standard): 1CD08003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		686748	7.66	698341	8.82		
UPPER LIMIT		1373496	8.16	1396682	9.32		
LOWER LIMIT		343374	7.16	349171	8.32		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136127/1-A		592625	7.66	592462	8.84		
LCS 660-136127/2-A		671425	7.66	658877	8.82		
680-88811-22	CV1039A-CS	779631	7.66	745273	8.82		
680-88811-22 MS	CV1039A-CS MS	764686	7.66	716189	8.82		
680-88811-22 MSD	CV1039A-CS MSD	754689	7.66	709916	8.82		
680-88811-21	CV1036B-CS	672738	7.66	607689	8.82		
680-88811-23	CV1039A-CSD	663250	7.66	628028	8.82		
680-88811-24	CV1039B-CS	670940	7.66	593165	8.83		
680-88811-25	CV1040A-CS	662283	7.66	619452	8.82		
680-88811-26	CV1042A-CS	686498	7.66	644585	8.83		
680-88811-27	CV1366A-CS	643041	7.66	623490	8.83		
680-88811-28	CV1366B-CS	686772	7.66	652396	8.82		
680-88811-29	CV1043A-CS	690687	7.66	650528	8.83		
680-88811-30	CV1043B-CS	656105	7.66	626511	8.83		
680-88811-31	CV1049A-CS	682677	7.66	617994	8.83		
680-88811-32	CV1049B-CS	675540	7.66	626675	8.83		
680-88811-33	CV1042B-CS	659371	7.66	597036	8.83		
680-88811-34	CV1042C-CS	647128	7.66	598375	8.83		
680-88811-36	CV1047B-CS	611780	7.66	591227	8.83		

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: CCVIS 660-136263/3 Date Analyzed: 04/09/2013 11:47

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

Lab File ID (Standard): 1CD09003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		357710	3.69	263195	4.77	531432	5.72
UPPER LIMIT		715420	4.19	526390	5.27	1062864	6.22
LOWER LIMIT		178855	3.19	131598	4.27	265716	5.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136189/1-A		345646	3.69	281898	4.77	525675	5.72
LCS 660-136189/2-A		344087	3.69	255819	4.77	496129	5.72
680-88811-35	CV1047A-CS	400756	3.69	301814	4.77	599110	5.72
680-88811-37	CV1050A-CS	387674	3.69	291486	4.77	560026	5.72
680-88811-38	CV1050B-CS	408096	3.69	293239	4.77	564227	5.72
680-88811-A-44-B MS		381754	3.69	293662	4.77	559568	5.72
680-88811-A-44-C MSD		423377	3.69	316705	4.77	569543	5.72
680-88811-45	CV1119B-CS	422028	3.69	306849	4.77	567559	5.72
680-88811-46	CV1119C-GS	391065	3.69	299899	4.77	570444	5.72

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: CCVIS 660-136263/3 Date Analyzed: 04/09/2013 11:47

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

Lab File ID (Standard): 1CD09003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		649492	7.66	642611	8.83		
UPPER LIMIT		1298984	8.16	1285222	9.33		
LOWER LIMIT		324746	7.16	321306	8.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136189/1-A		588358	7.65	537708	8.82		
LCS 660-136189/2-A		586252	7.65	559628	8.82		
680-88811-35	CV1047A-CS	624636	7.65	594086	8.82		
680-88811-37	CV1050A-CS	614276	7.66	564828	8.82		
680-88811-38	CV1050B-CS	595876	7.65	551867	8.82		
680-88811-A-44-B MS		607668	7.66	562127	8.83		
680-88811-A-44-C MSD		628669	7.66	566055	8.82		
680-88811-45	CV1119B-CS	590594	7.66	562572	8.82		
680-88811-46	CV1119C-GS	584722	7.66	554116	8.82		

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10

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

Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		324897	3.68	222702	4.77	427547	5.71
UPPER LIMIT		649794	4.18	445404	5.27	855094	6.21
LOWER LIMIT		162449	3.18	111351	4.27	213774	5.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88811-31 DL	CV1049A-CS DL	435564	3.68	323669	4.77	604064	5.71
680-88811-32 DL	CV1049B-CS DL	466223	3.68	357395	4.77	649575	5.71
680-88811-37 DL	CV1050A-CS DL	387605	3.68	282747	4.77	499296	5.72

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.: 680-88811-2

SDG No.: 68088811-2

Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10

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

Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		562910	7.65	541225	8.81		
UPPER LIMIT		1125820	8.15	1082450	9.31		
LOWER LIMIT		281455	7.15	270613	8.31		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88811-31 DL	CV1049A-CS DL	677653	7.65	643314	8.81		
680-88811-32 DL	CV1049B-CS DL	733031	7.65	693983	8.81		
680-88811-37 DL	CV1050A-CS DL	600122	7.66	544865	8.84		

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.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1036B-CS | Lab Sample ID: 680-88811-21

Matrix: Solid | Lab File ID: 1CD08014.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.19(g) | Date Analyzed: 04/08/2013 16:30

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

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

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

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	15	J	50	6.2
120-12-7	Anthracene	20		10	5.2
56-55-3	Benzo[a]anthracene	240		9.9	4.8
50-32-8	Benzo[a]pyrene	220		13	6.5
205-99-2	Benzo[b]fluoranthene	450		15	7.6
191-24-2	Benzo[g,h,i]perylene	220		25	5.5
207-08-9	Benzo[k]fluoranthene	140		9.9	4.5
218-01-9	Chrysene	250		11	5.6
53-70-3	Dibenz(a,h)anthracene	80		25	5.1
206-44-0	Fluoranthene	260		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	220		25	8.8
90-12-0	1-Methylnaphthalene	37	J	50	5.5
91-57-6	2-Methylnaphthalene	55		50	8.8
91-20-3	Naphthalene	40	J	50	5.5
85-01-8	Phenanthrene	110		9.9	4.8
129-00-0	Pyrene	240		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08014.D
Lab Smp Id: 680-88811-A-21-A Client Smp ID: CV1036B-CS
Inj Date : 08-APR-2013 16:30
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-21-A
Misc Info : 680-88811-A-21-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	20.565	% 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	3.692	3.692	(1.000)	433131	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	323927	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	606194	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	66981	7.49487	621.1432
*	18 Chrysene-d12	240	7.657	7.656	(1.000)	672738	40.0000	
*	23 Perylene-d12	264	8.821	8.821	(1.000)	607689	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	5426	0.48774	40.4214
	3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	5062	0.66844	55.3973
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	3032	0.44496	36.8762
	5 Acenaphthylene	152	4.686	4.686	(0.982)	2470	0.18424	15.2688
	11 Phenanthrene	178	5.739	5.739	(1.003)	23949	1.35649	112.4197
	12 Anthracene	178	5.769	5.768	(1.008)	4273	0.23875	19.7868
	13 Carbazole	167	5.880	5.880	(1.028)	3770	0.24587	20.3766
	15 Fluoranthene	202	6.568	6.568	(1.148)	60173	3.08612	255.7648

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.739	6.739	(0.880)	53675	2.88028	238.7052
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	53120	2.86077	237.0889
19 Chrysene	228	7.674	7.674	(1.002)	57590	3.00416	248.9720
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	94234	5.48514	454.5850
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	28572	1.71954	142.5085(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	43846	2.71082	224.6610
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	40139	2.61276	216.5347(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	13712	0.96621	80.0756
26 Benzo(g,h,i)perylene	276	10.292	10.297	(1.167)	41921	2.67363	221.5791

QC Flag Legend

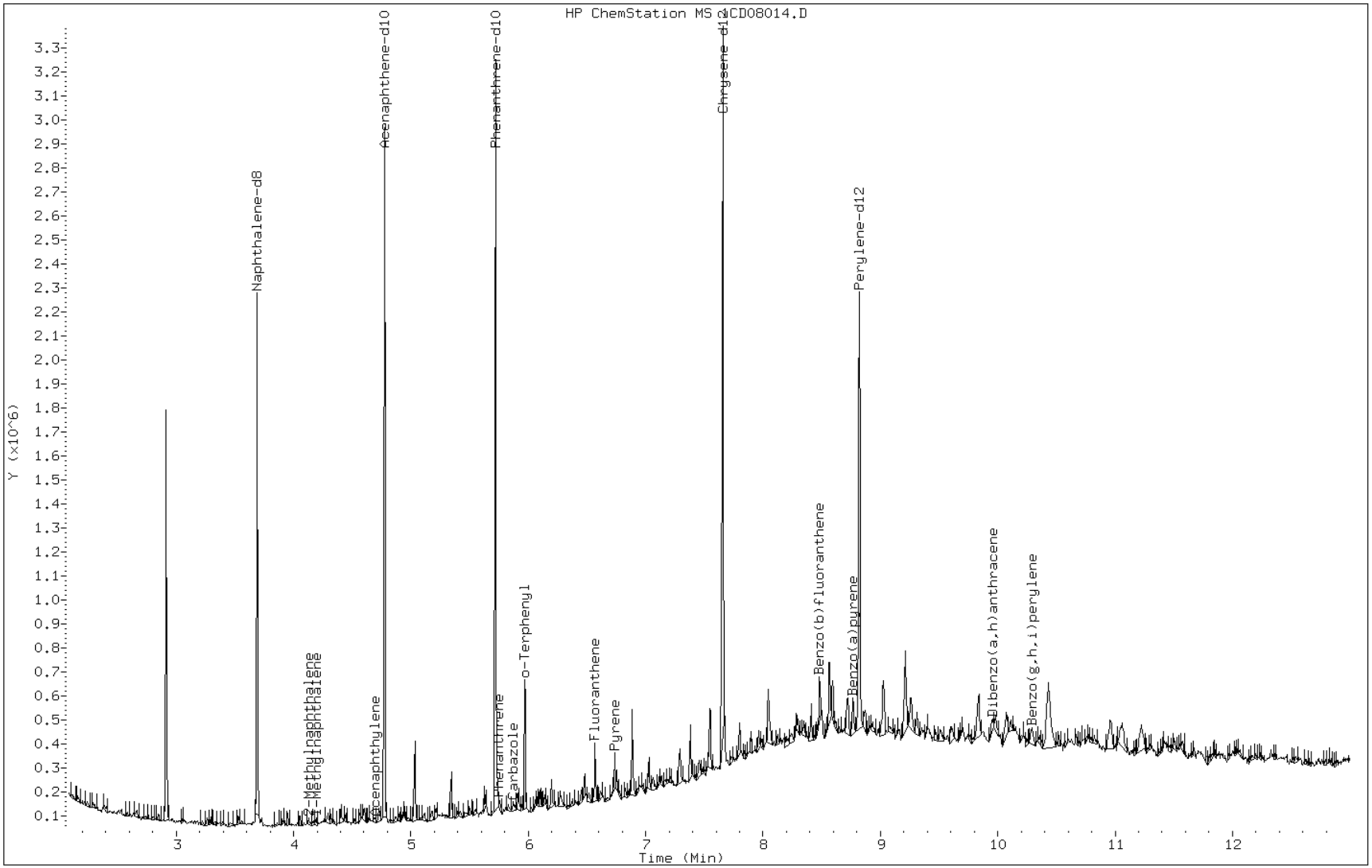
M - Compound response manually integrated.

Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP



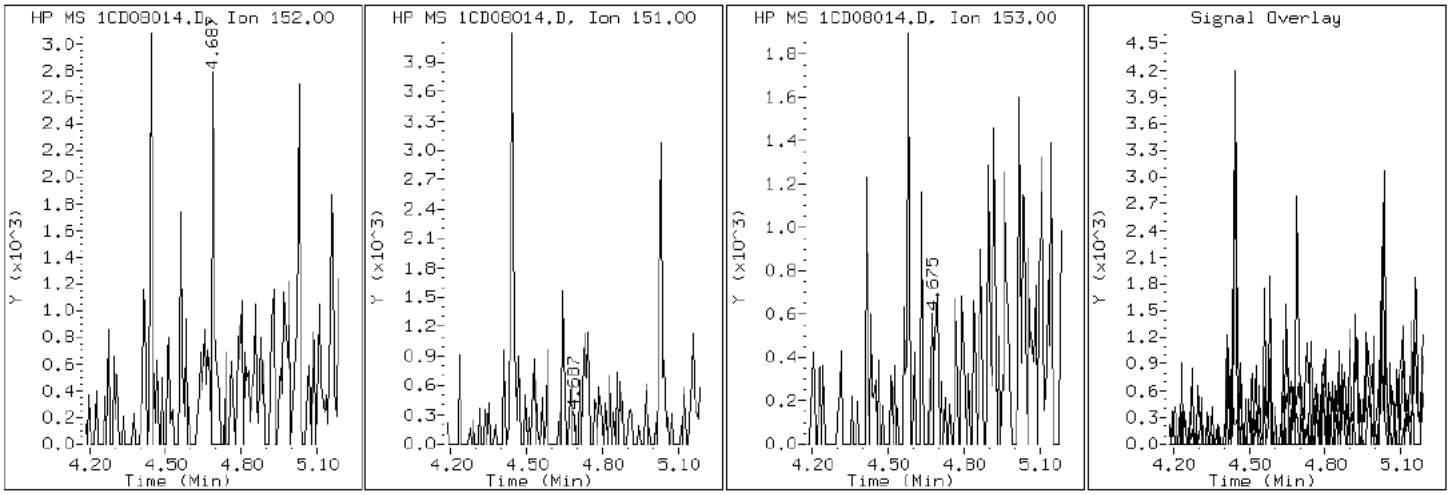
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

5 Acenaphthylene



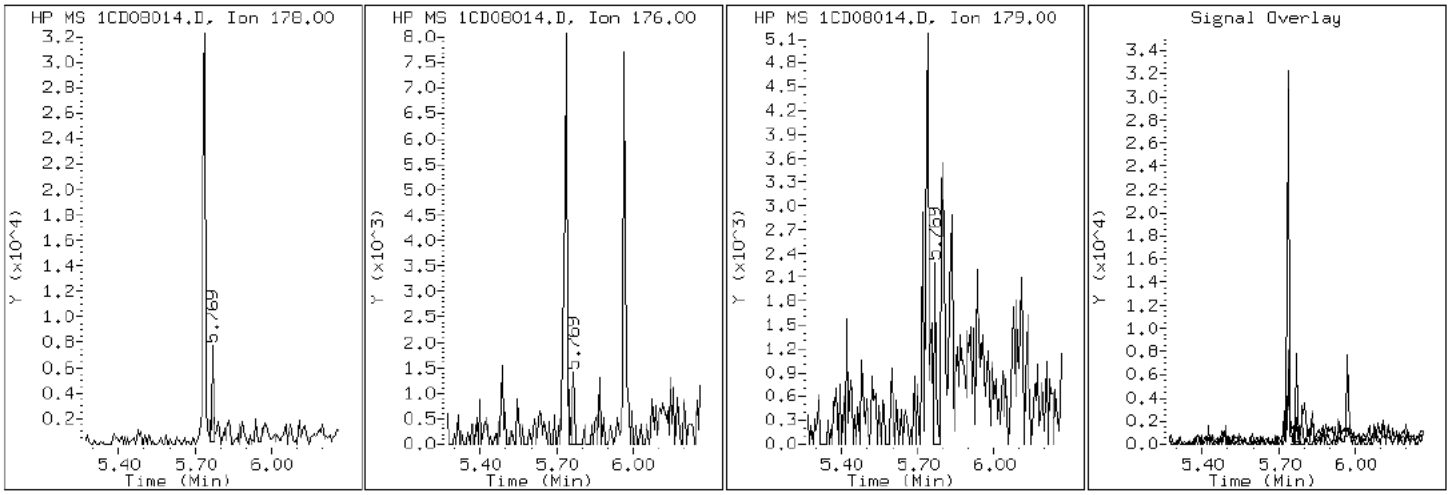
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

12 Anthracene



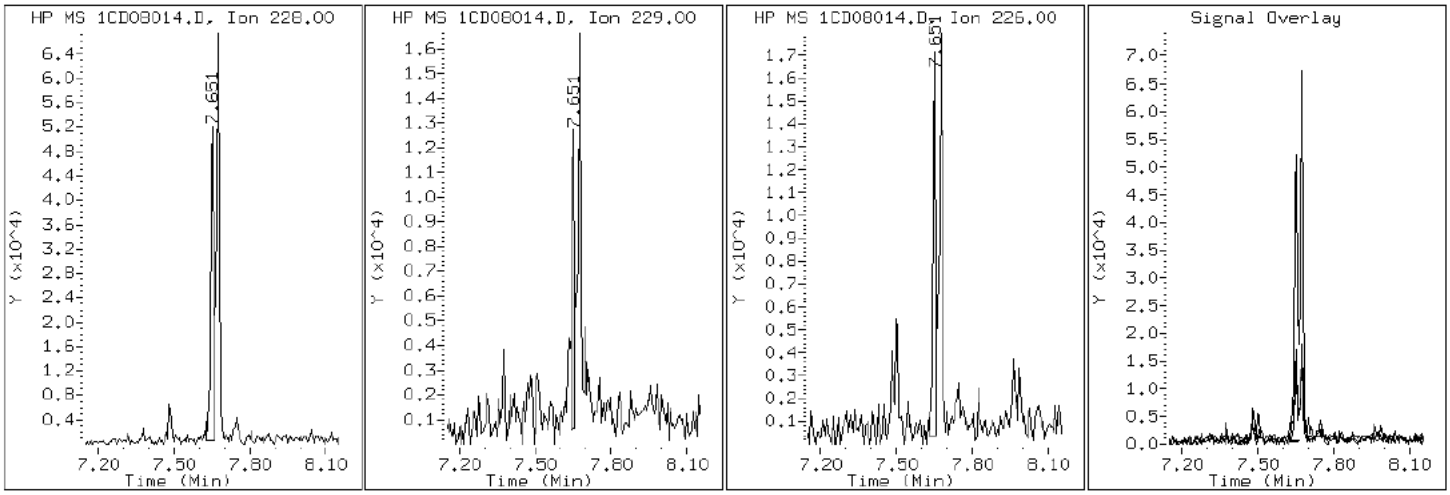
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

17 Benzo(a)anthracene



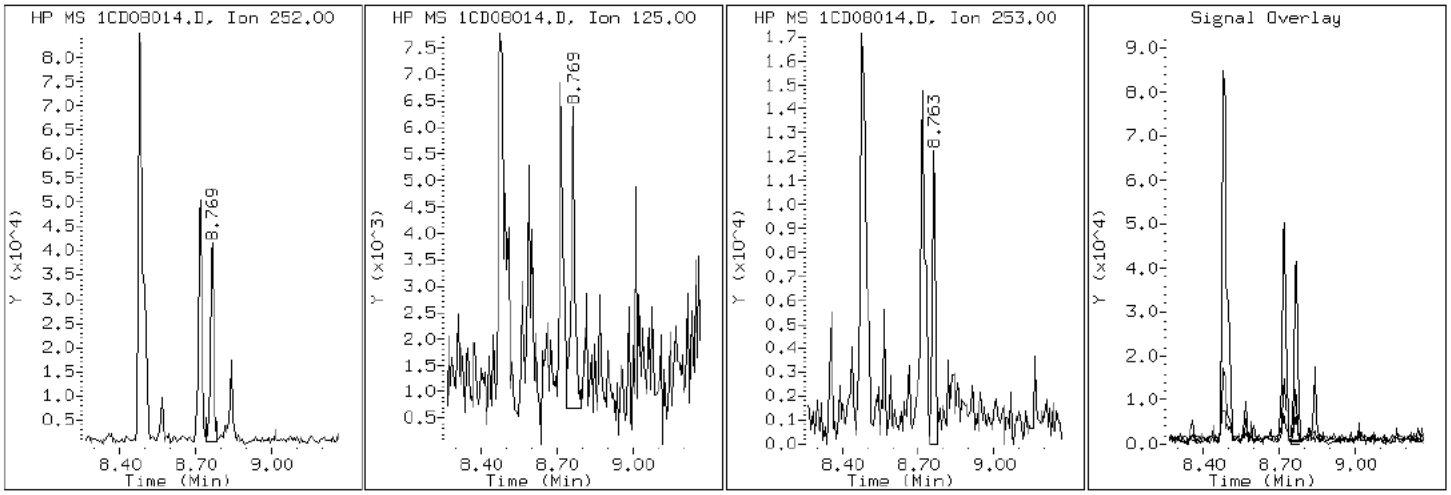
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

22 Benzo(a)pyrene



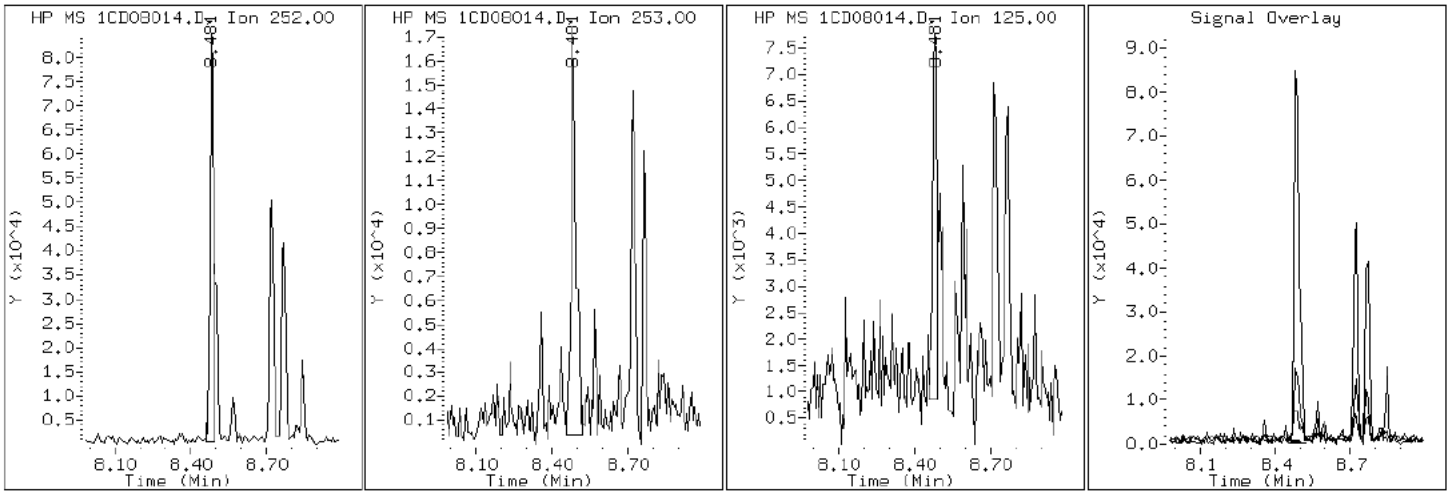
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

20 Benzo(b)fluoranthene



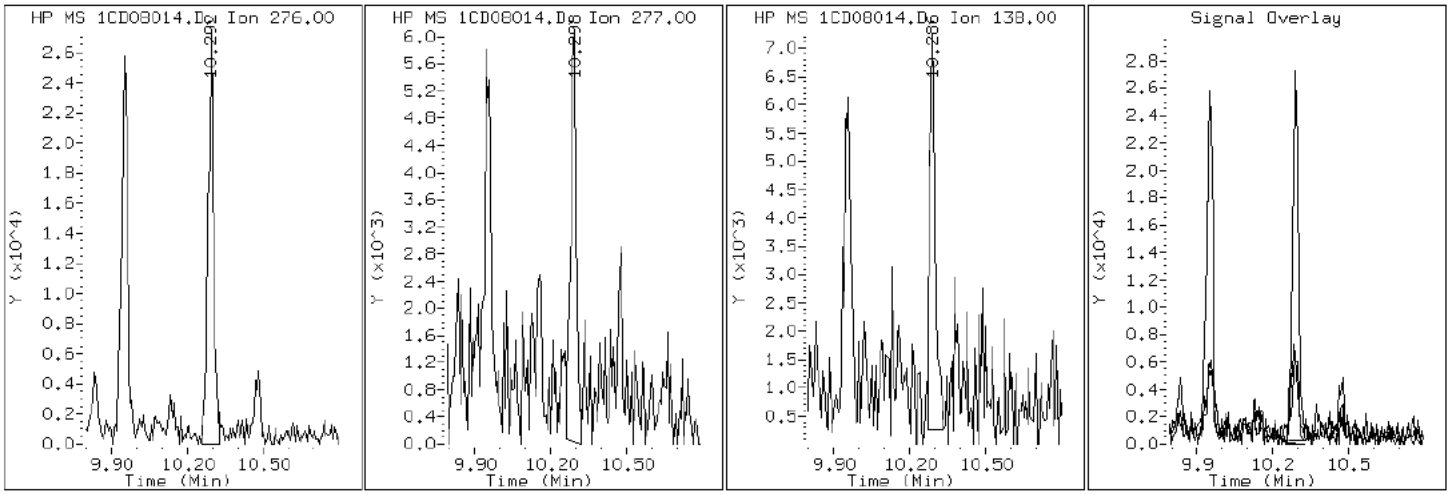
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

26 Benzo(g,h,i)perylene



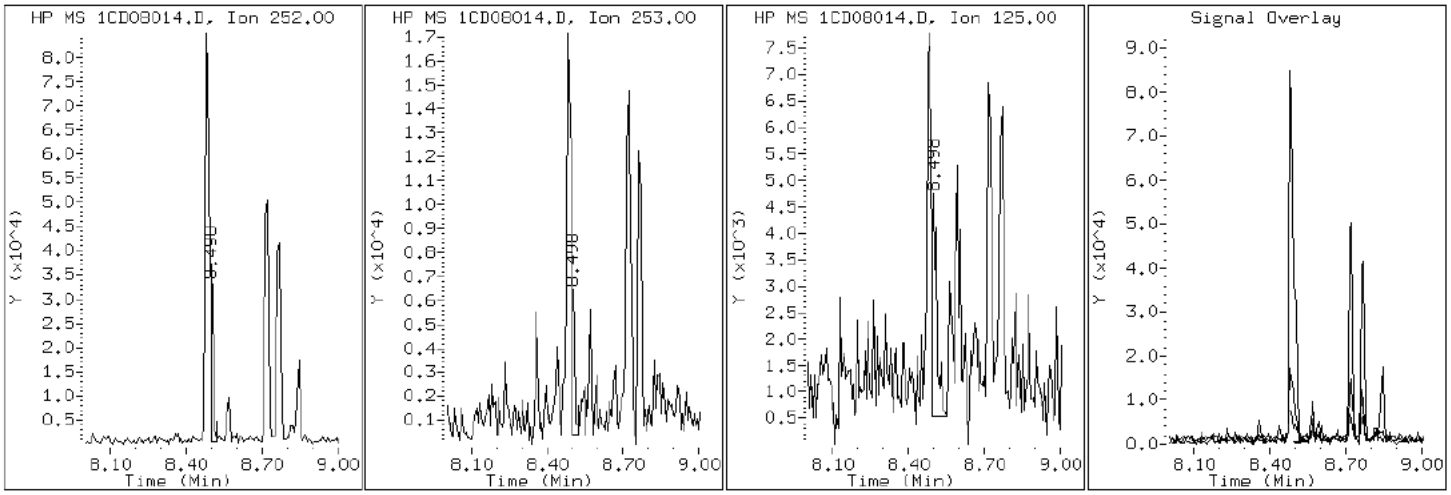
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

21 Benzo(k)fluoranthene



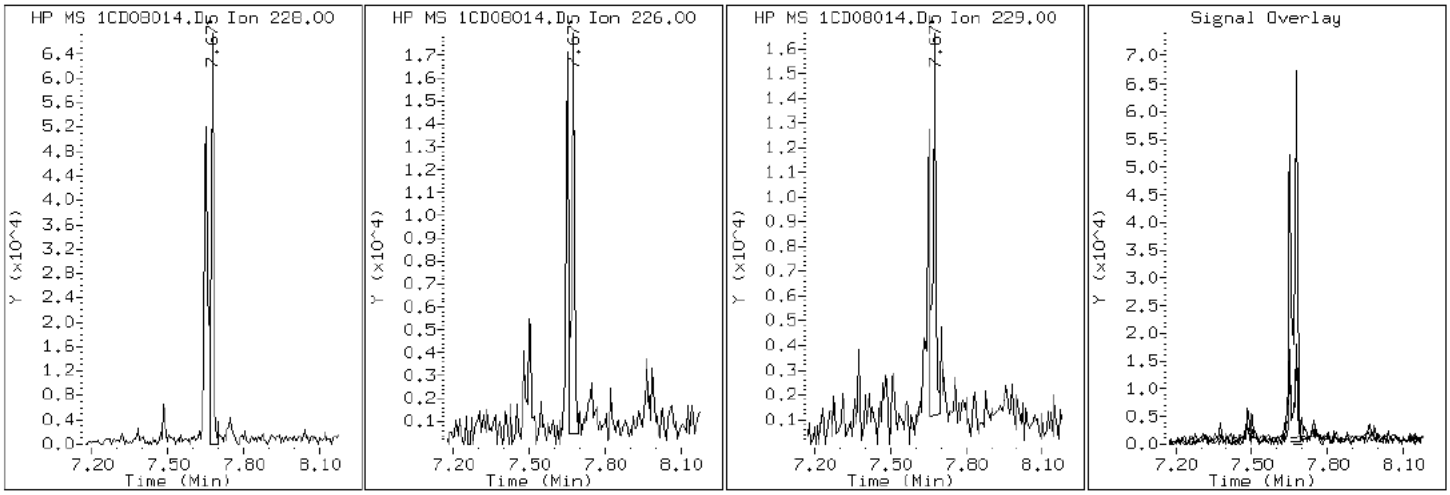
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

19 Chrysene



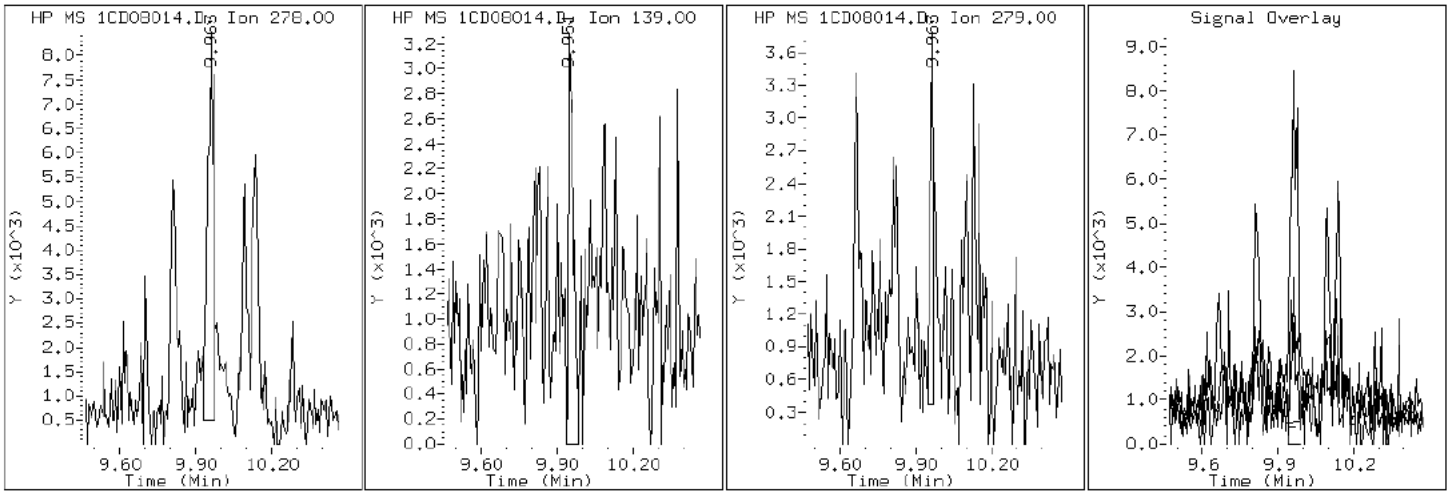
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

25 Dibenzo(a,h)anthracene



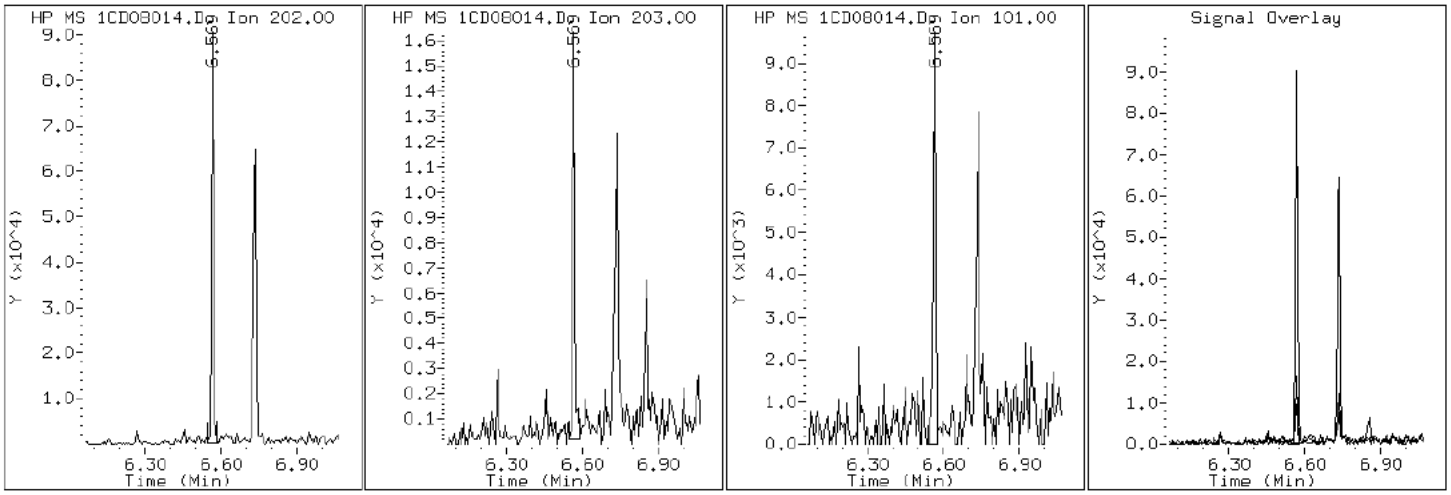
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

15 Fluoranthene



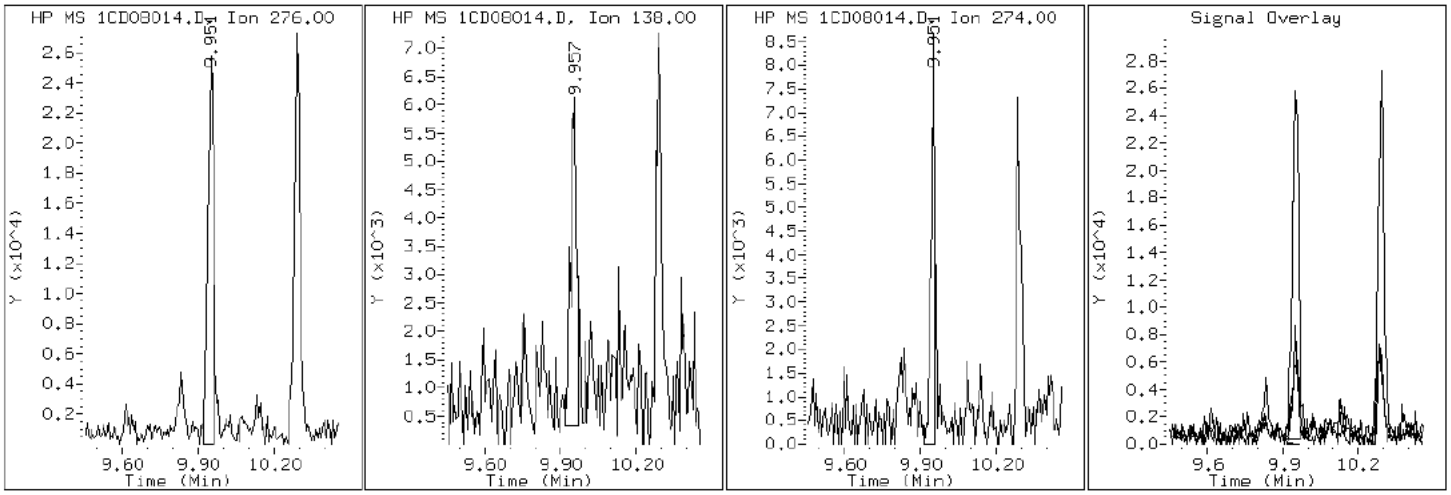
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

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



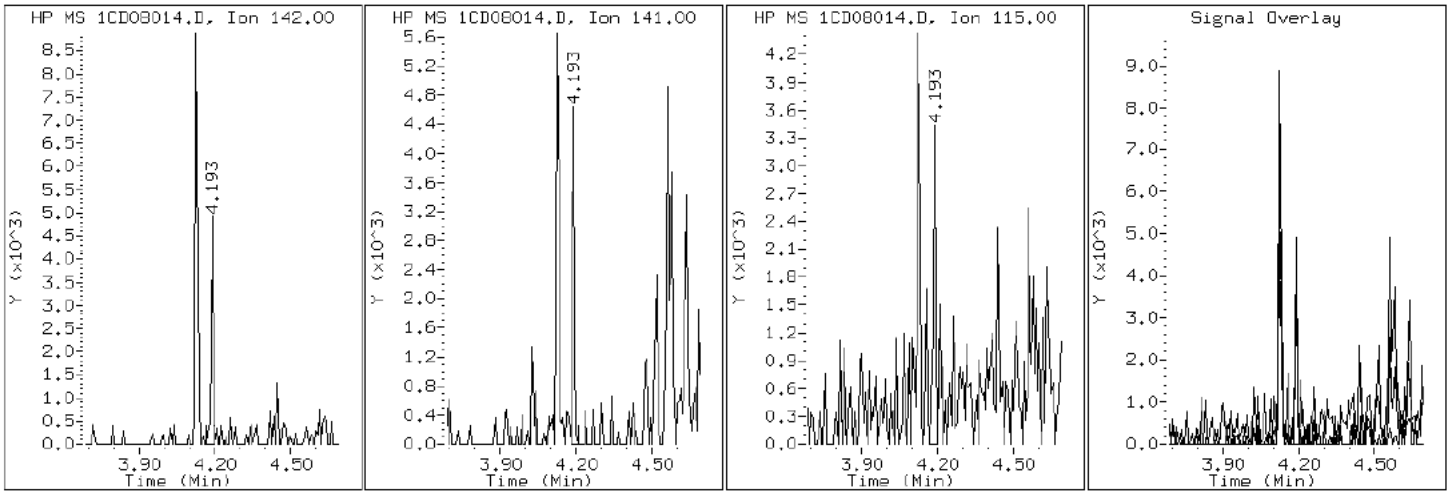
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

4 1-Methylnaphthalene



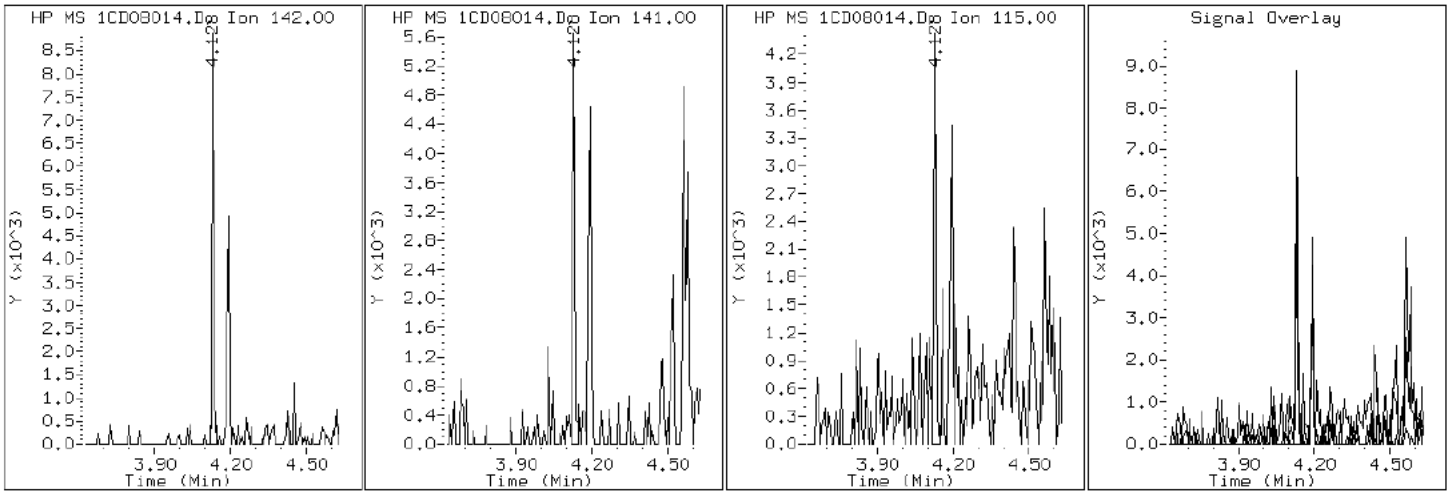
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

3 2-Methylnaphthalene



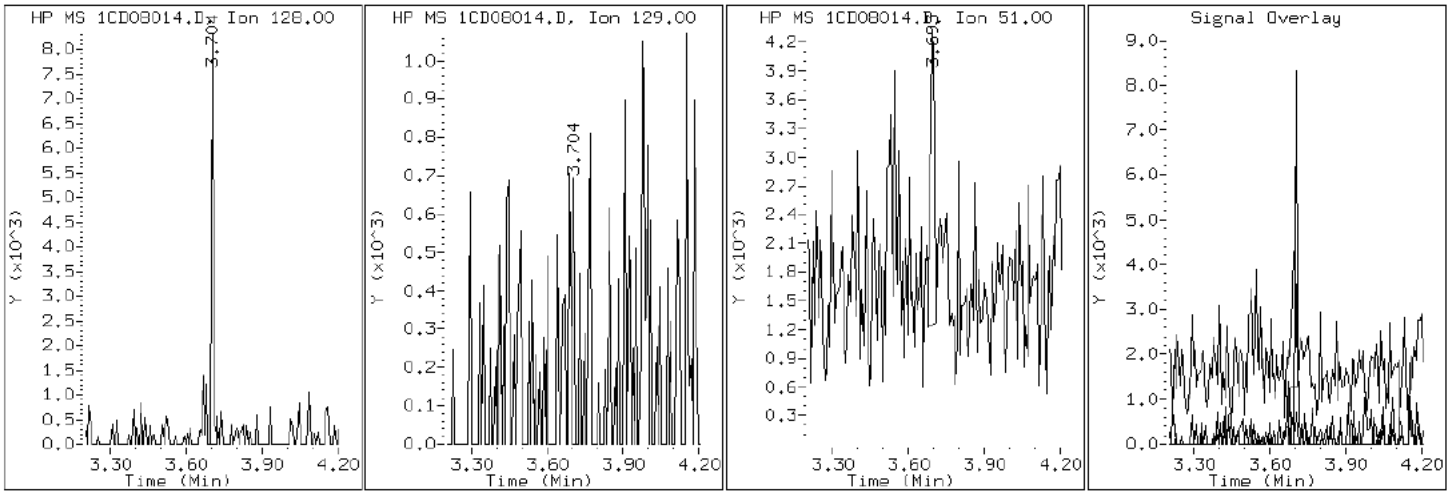
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

2 Naphthalene



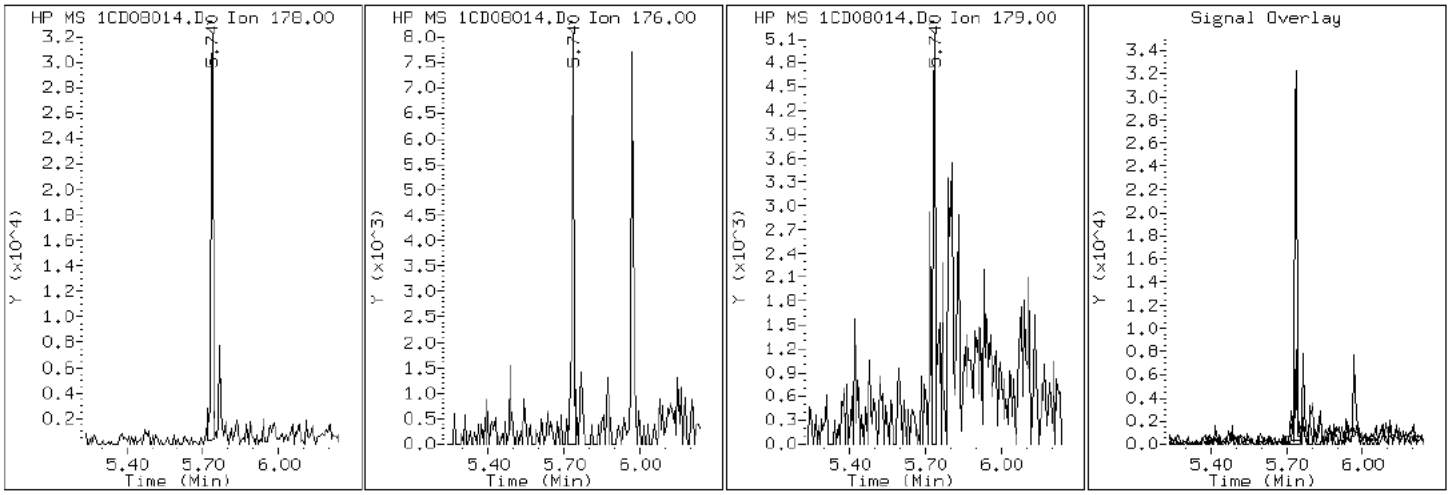
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

11 Phenanthrene



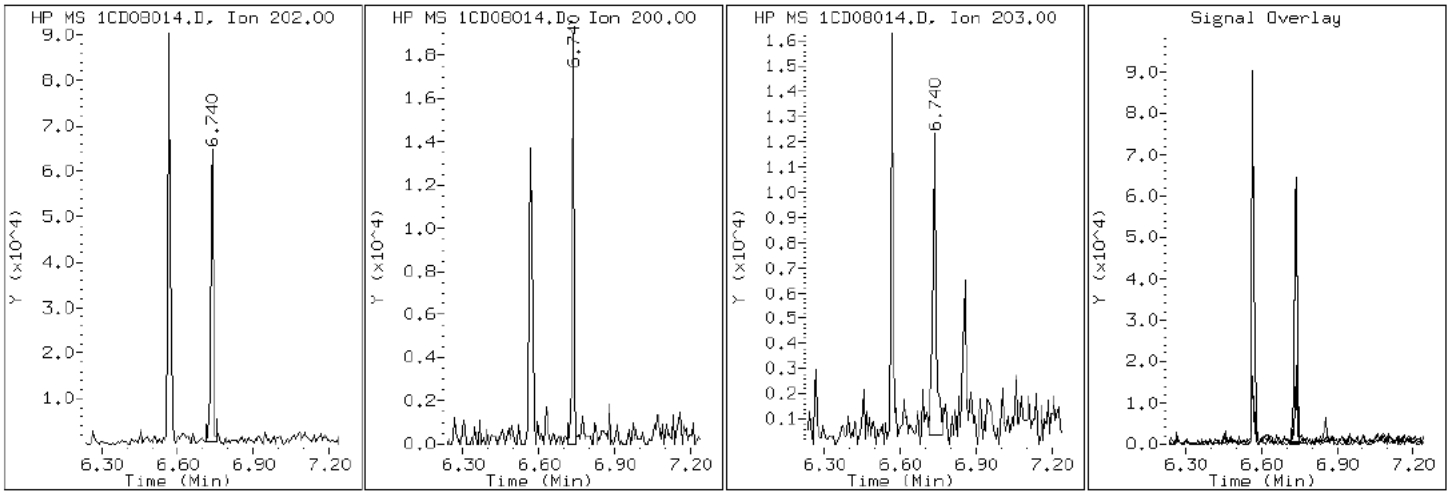
Data File: 1CD08014.D

Date: 08-APR-2013 16:30

Client ID: CV1036B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-21-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08014.D
Inj. Date and Time: 08-APR-2013 16:30
Instrument ID: BSMC5973.i
Client ID: CV1036B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

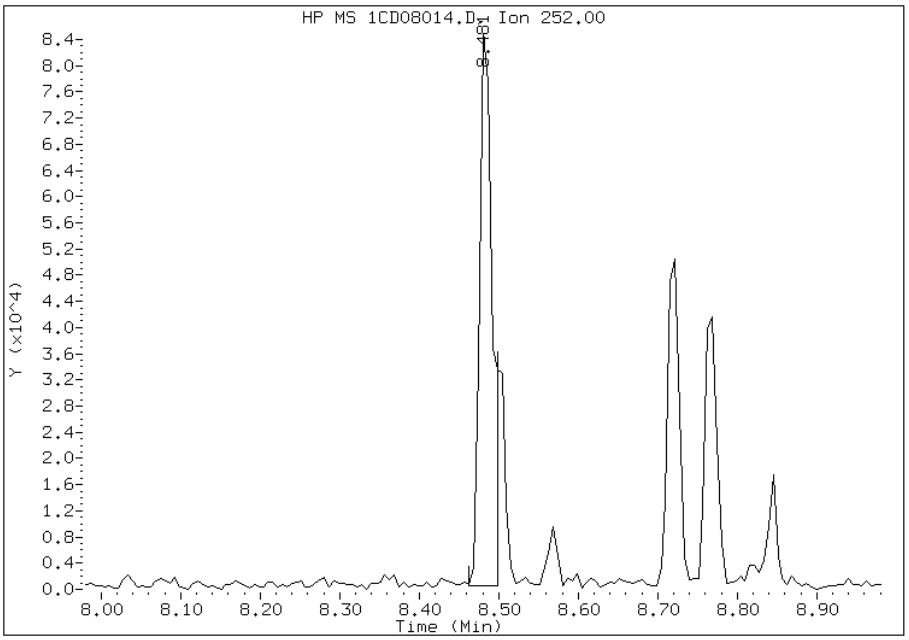
Processing Integration Results

RT: 8.48

Response: 94205

Amount: 6

Conc: 470



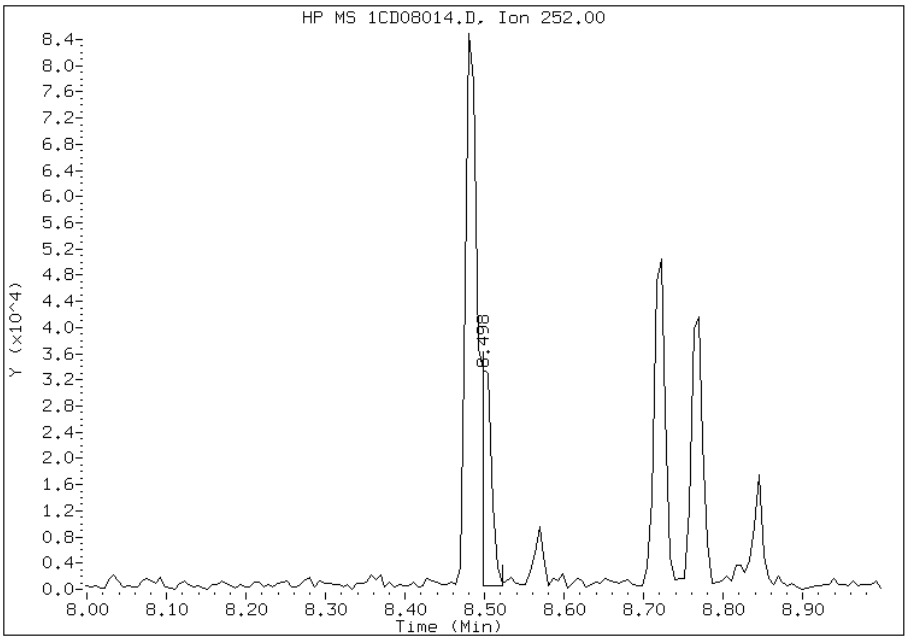
Manual Integration Results

RT: 8.50

Response: 28572

Amount: 2

Conc: 143



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08014.D
Inj. Date and Time: 08-APR-2013 16:30
Instrument ID: BSMC5973.i
Client ID: CV1036B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

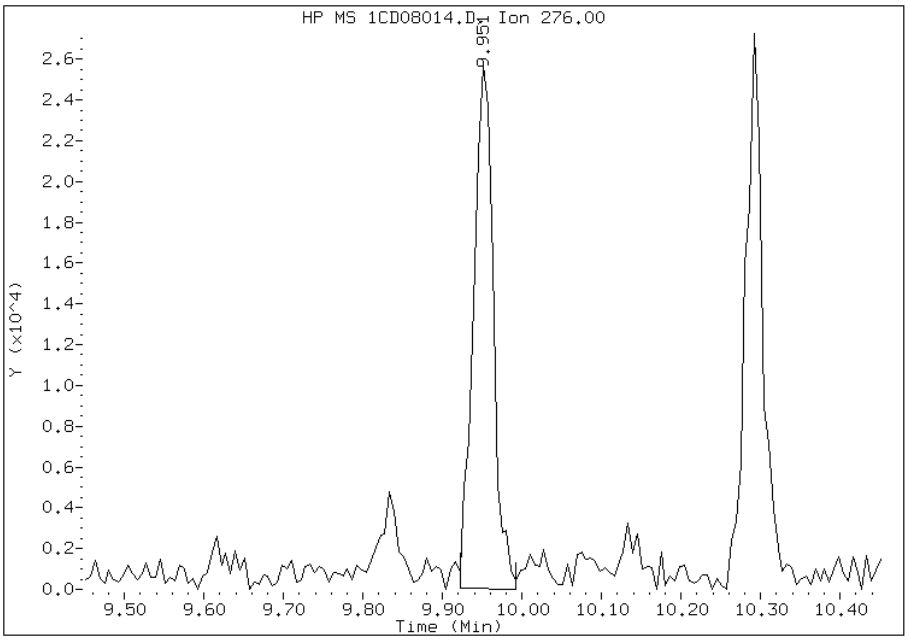
Processing Integration Results

RT: 9.95

Response: 44383

Amount: 3

Conc: 239



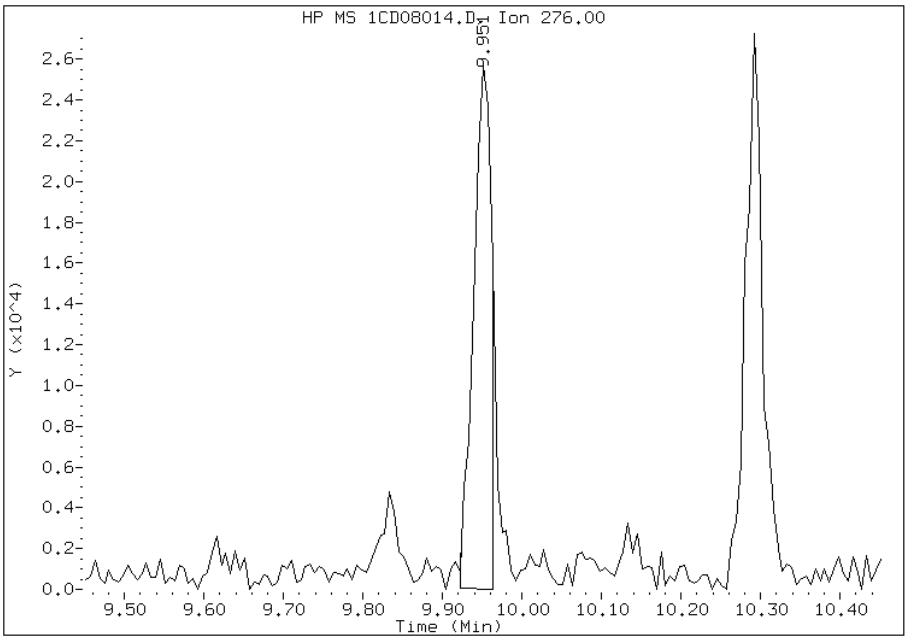
Manual Integration Results

RT: 9.95

Response: 40139

Amount: 3

Conc: 217



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CS | Lab Sample ID: 680-88811-22

Matrix: Solid | Lab File ID: 1CD08007.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/08/2013 14:22

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	J	160	32
208-96-8	Acenaphthylene	120		64	8.0
120-12-7	Anthracene	2100	F	13	6.7
56-55-3	Benzo[a]anthracene	4800	4	13	6.2
50-32-8	Benzo[a]pyrene	4200	F	17	8.3
191-24-2	Benzo[g,h,i]perylene	2900	F	32	7.0
207-08-9	Benzo[k]fluoranthene	2200	F	13	5.8
218-01-9	Chrysene	4800	4	14	7.2
53-70-3	Dibenz(a,h)anthracene	940	F	32	6.6
86-73-7	Fluorene	250		32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	2700	F	32	11
90-12-0	1-Methylnaphthalene	170		64	7.0
91-57-6	2-Methylnaphthalene	170	F	64	11
91-20-3	Naphthalene	260	F	64	7.0
85-01-8	Phenanthrene	4500	4	13	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08007.D
Lab Smp Id: 680-88811-A-22-A Client Smp ID: CV1039A-CS
Inj Date : 08-APR-2013 14:22
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-22-A
Misc Info : 680-88811-A-22-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	37.303	% 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	3.692	3.692	(1.000)	441400	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	314839	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	591426	40.0000	
$ 14 o-Terphenyl	230	5.968	5.974	(1.043)	58847	6.82131	727.7500
* 18 Chrysene-d12	240	7.656	7.656	(1.000)	779631	40.0000	
* 23 Perylene-d12	264	8.821	8.821	(1.000)	745273	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	27126	2.39264	255.2654
3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	12625	1.63590	174.5306
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	10741	1.54676	165.0200
5 Acenaphthylene	152	4.686	4.686	(0.982)	14549	1.11654	119.1213
7 Acenaphthene	154	4.792	4.798	(1.004)	11269	1.39630	148.9679
9 Fluorene	166	5.115	5.115	(1.071)	25610	2.38035	253.9537
11 Phenanthrene	178	5.733	5.739	(1.002)	725742	42.1329	4495.0631
12 Anthracene	178	5.768	5.768	(1.008)	340593	19.5057	2081.0236

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	39181	2.61909	279.4249
15 Fluoranthene	202	6.574	6.568	(1.149)	2194481	115.360	12307.4786(A)
16 Pyrene	202	6.739	6.739	(0.880)	1641894	76.0264	8111.0818(A)
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	1011838	44.9275	4793.2195
19 Chrysene	228	7.680	7.674	(1.003)	995475	44.8088	4780.5470
20 Benzo(b)fluoranthene	252	8.492	8.486	(0.963)	1296834	61.5503	6566.6639(A)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	428513	21.0282	2243.4532(M)
22 Benzo(a)pyrene	252	8.774	8.768	(0.995)	783992	39.5228	4216.6000
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	469525	24.9206	2658.7200(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.131)	152622	8.76911	935.5563
26 Benzo(g,h,i)perylene	276	10.303	10.297	(1.168)	522544	27.1743	2899.1651

QC Flag Legend

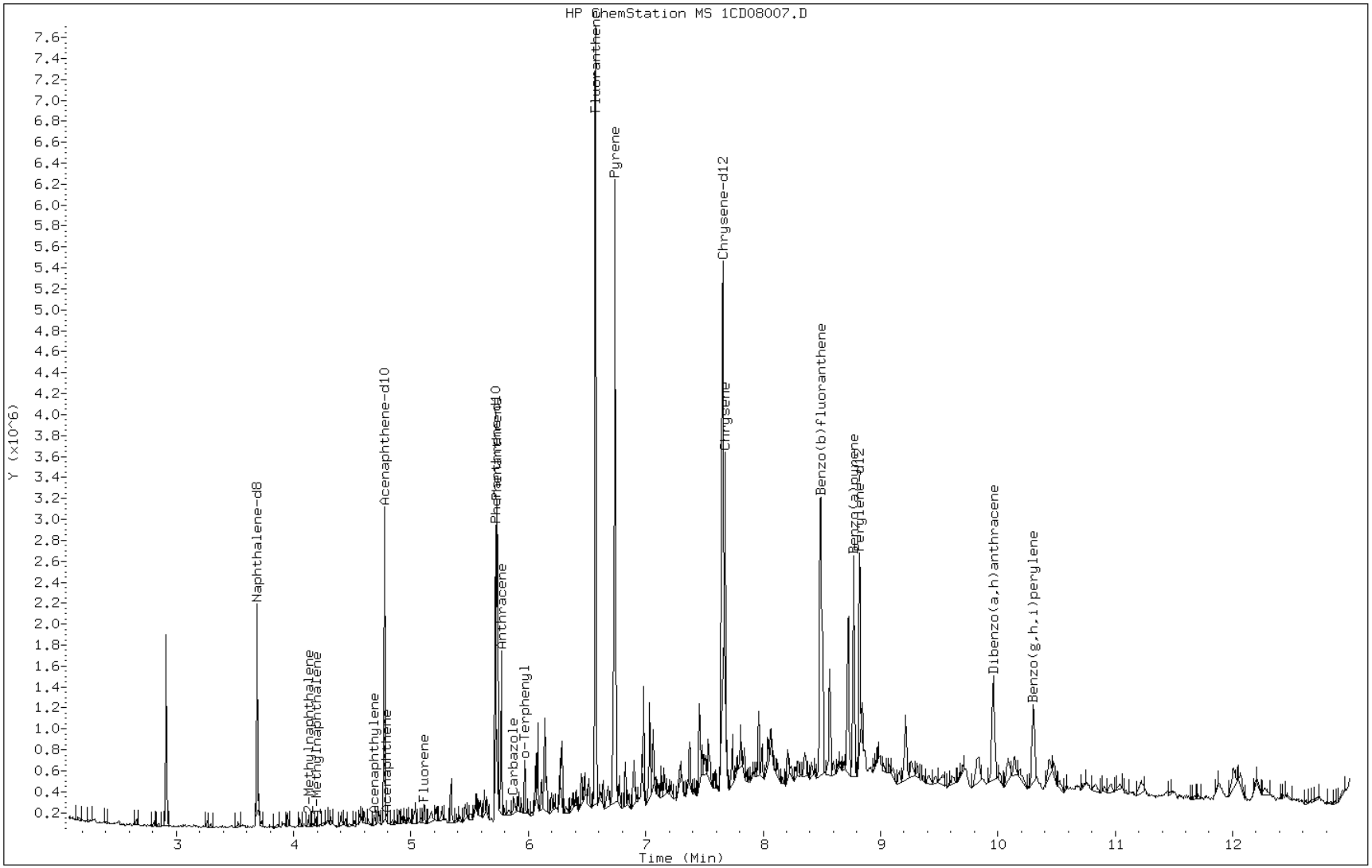
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP



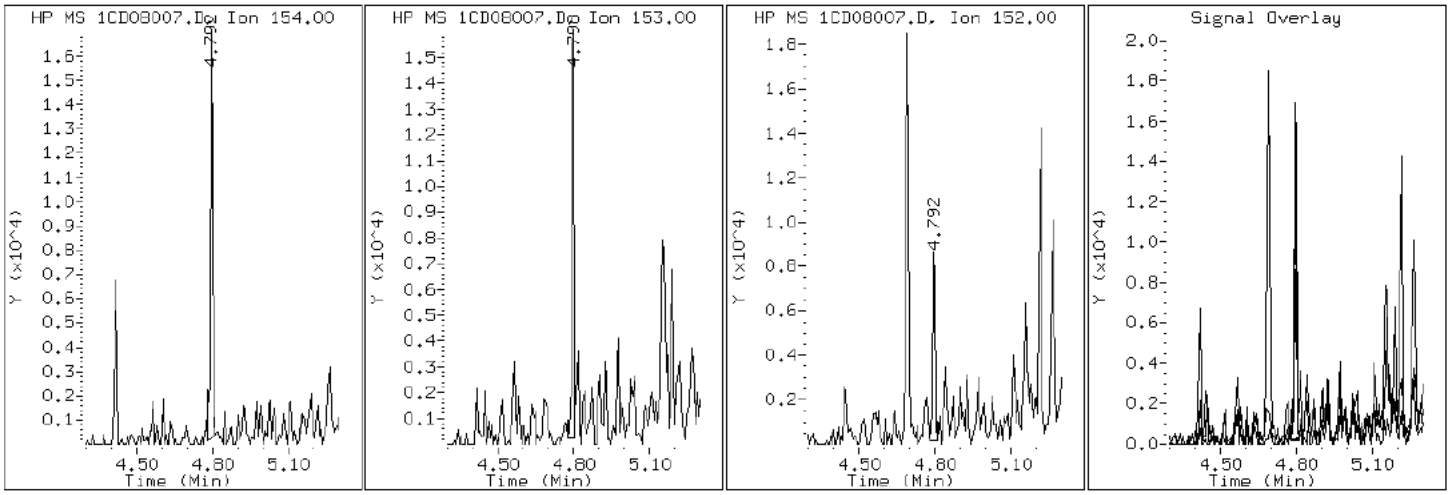
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

7 Acenaphthene



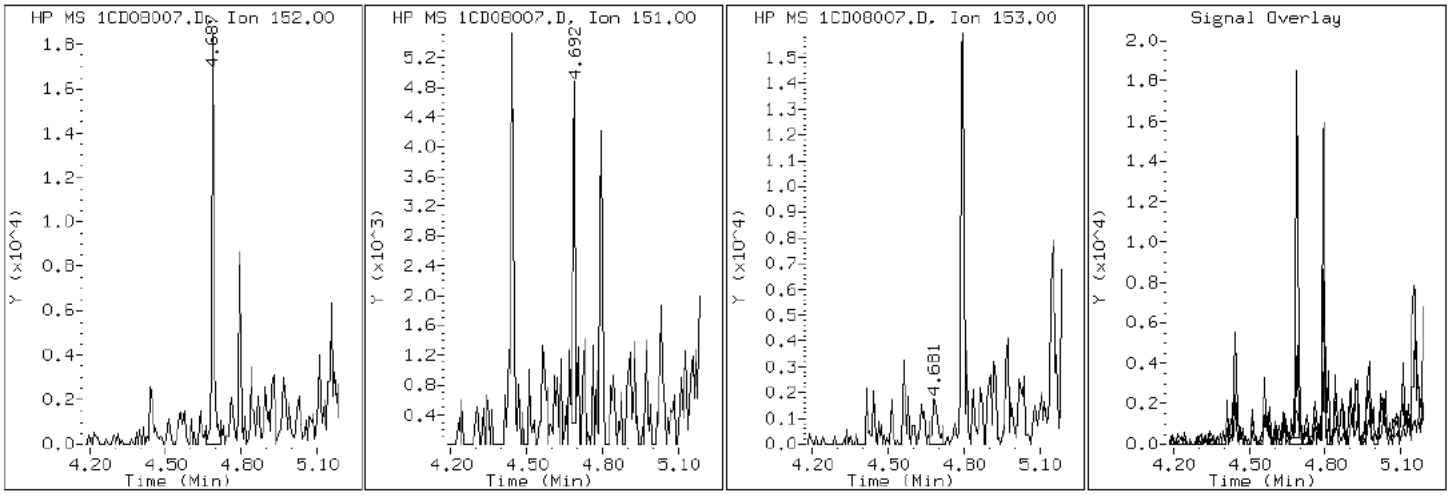
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

5 Acenaphthylene



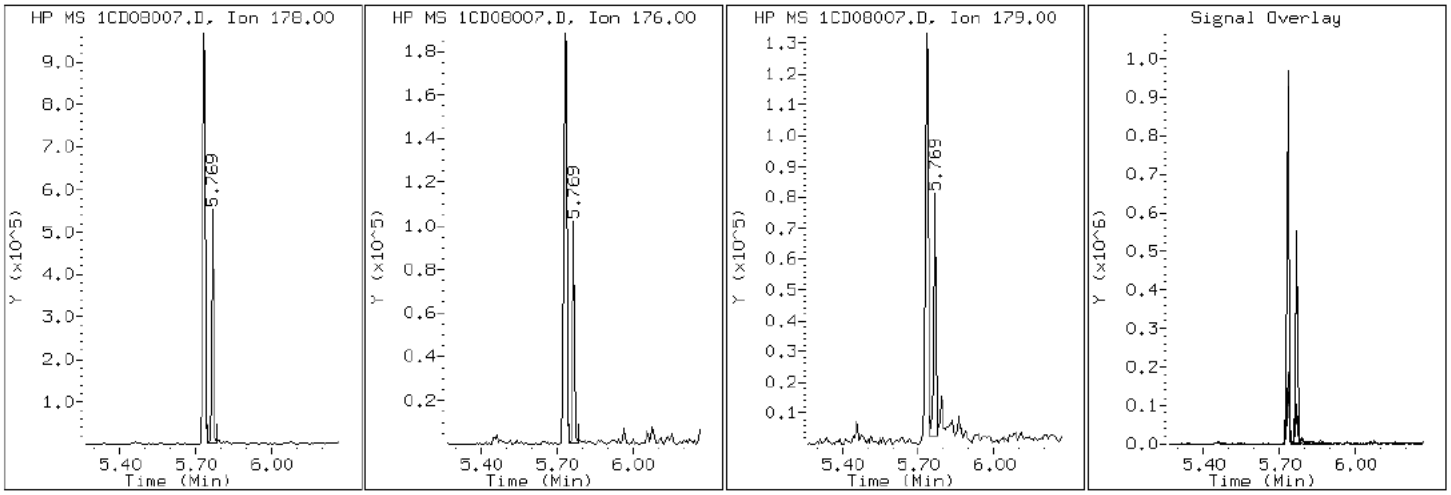
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

12 Anthracene



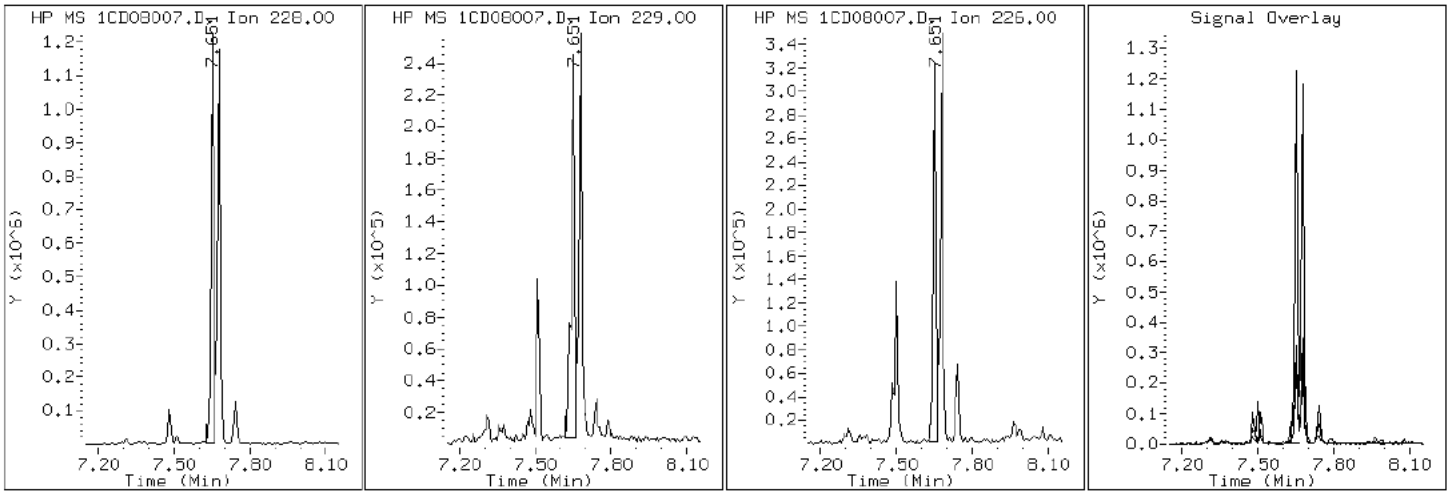
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

17 Benzo(a)anthracene



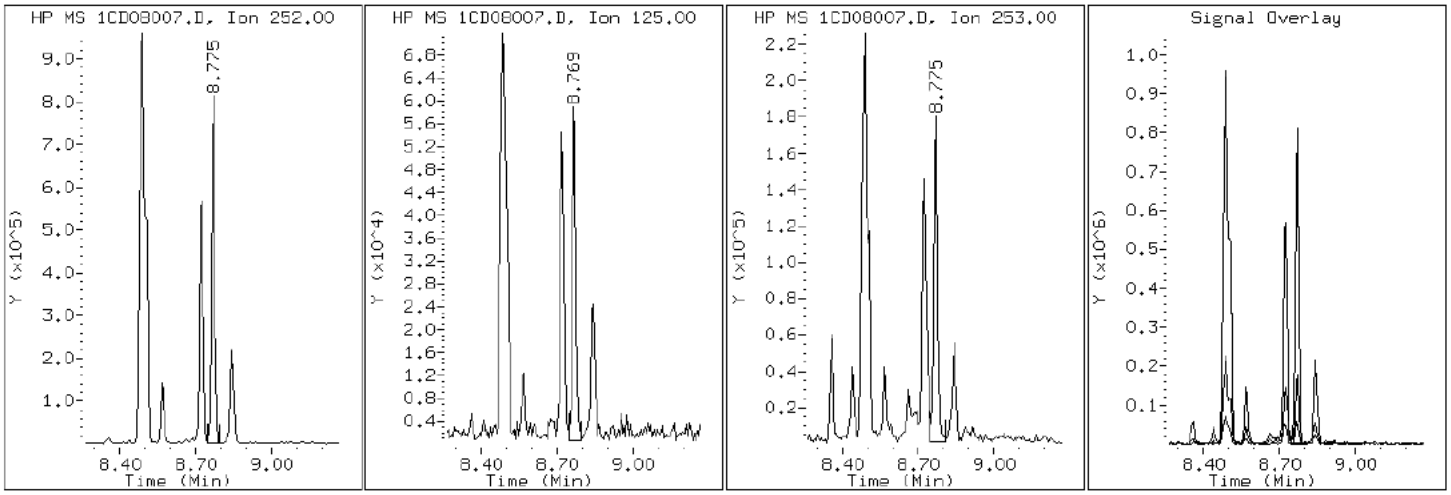
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

22 Benzo(a)pyrene



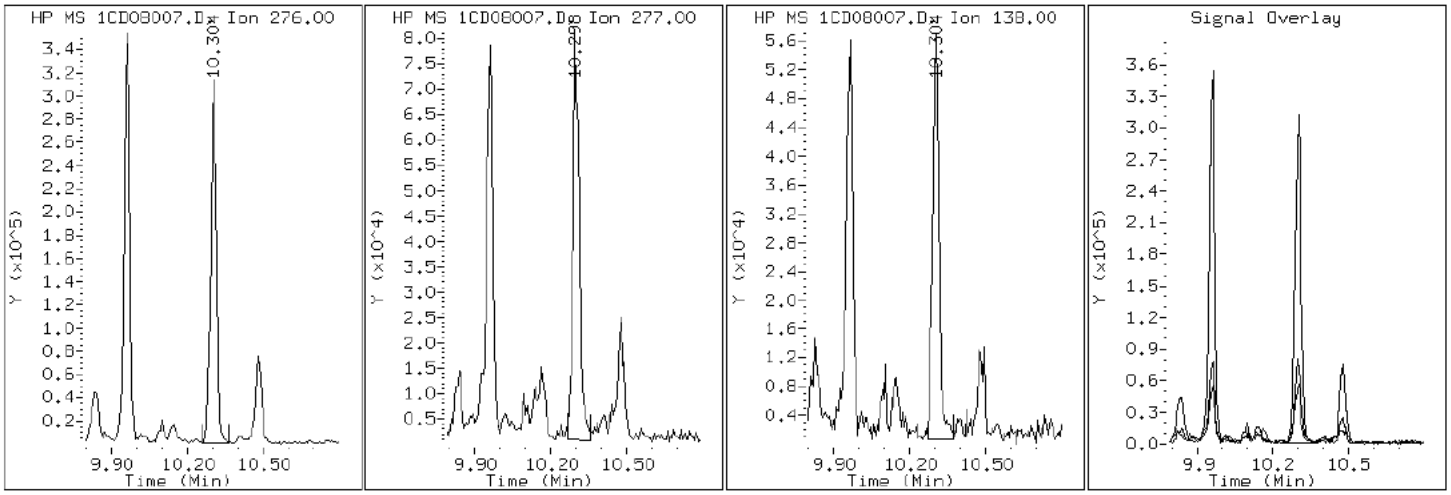
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

26 Benzo(g,h,i)perylene



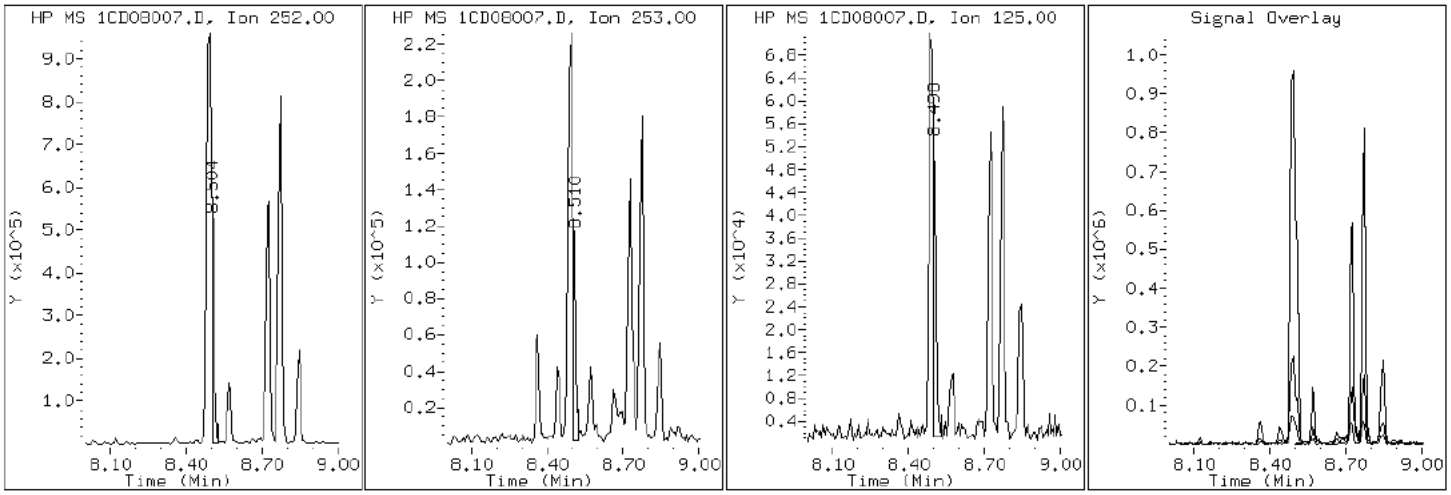
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

21 Benzo(k)fluoranthene



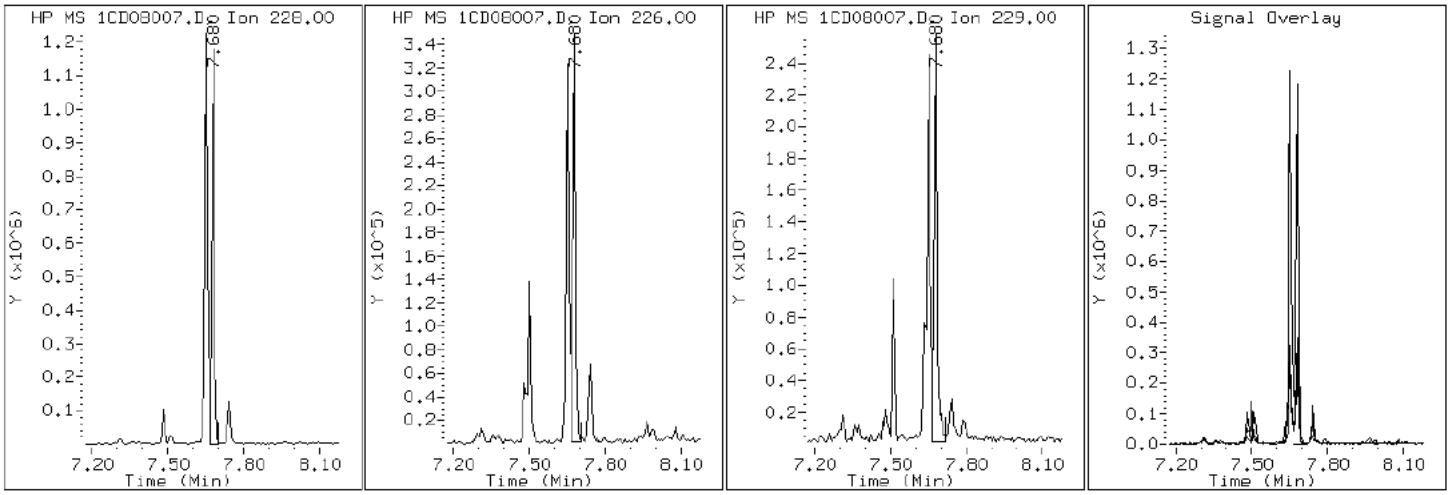
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

19 Chrysene



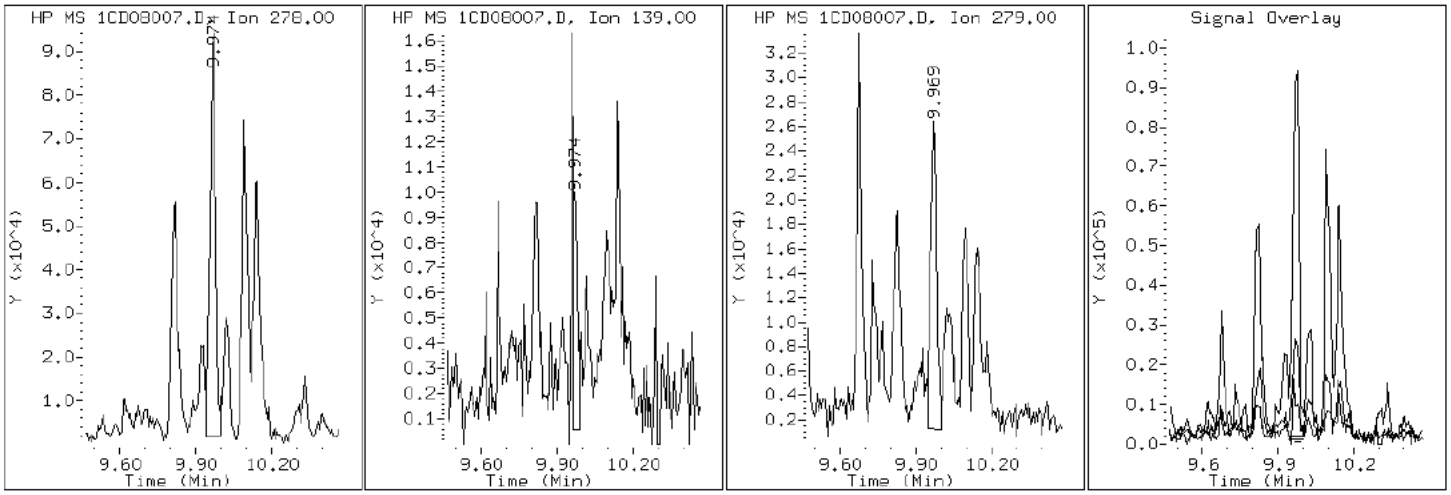
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

25 Dibenzo(a,h)anthracene



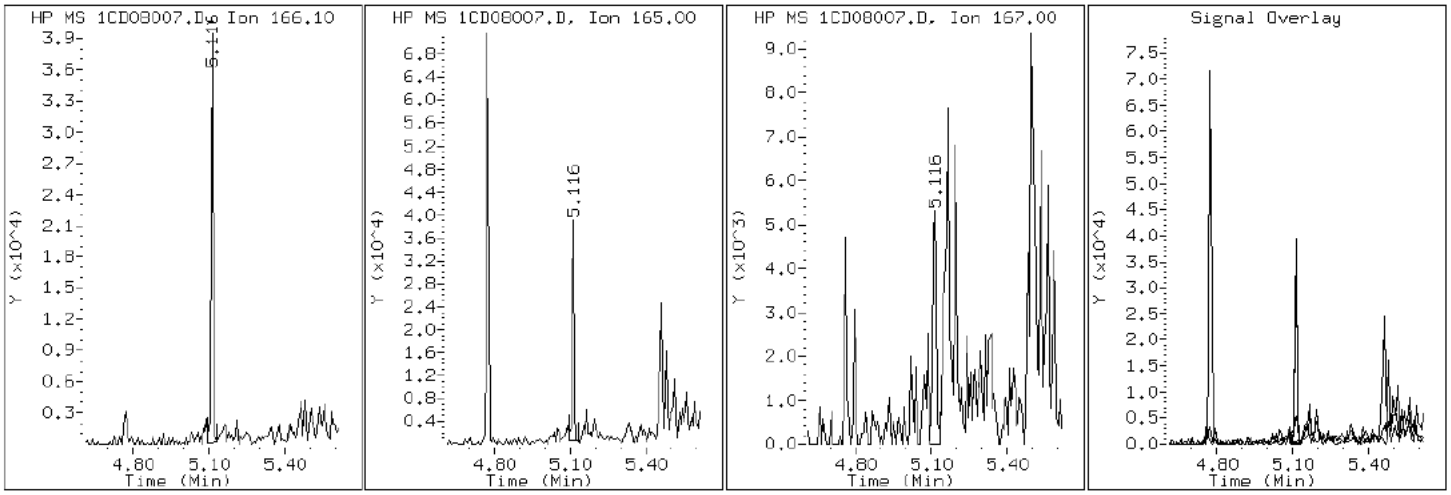
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

9 Fluorene



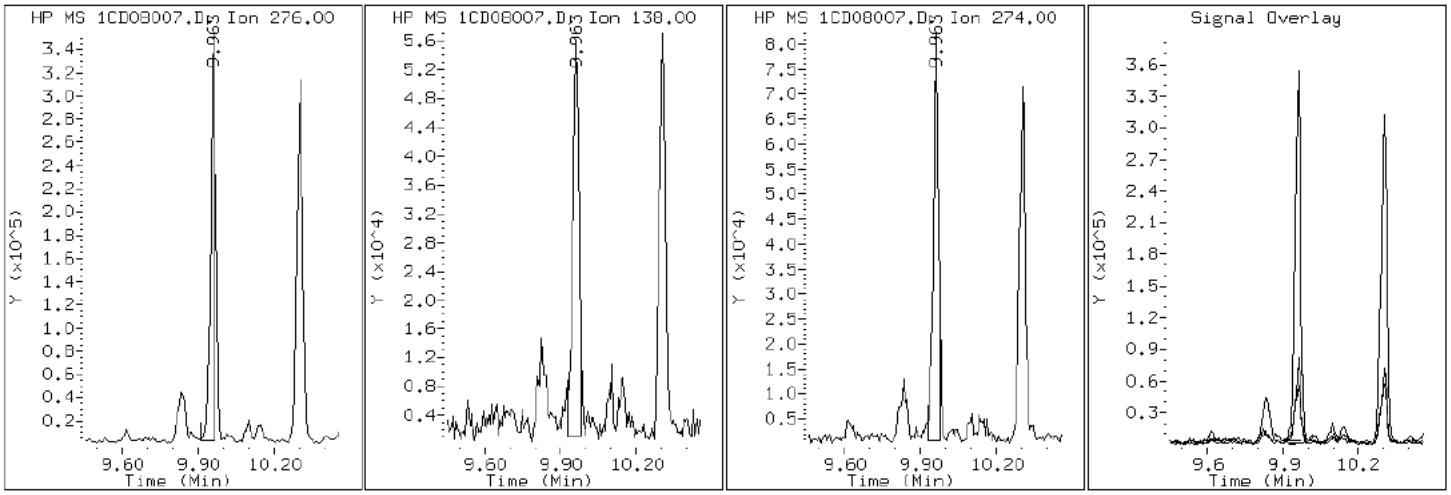
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

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



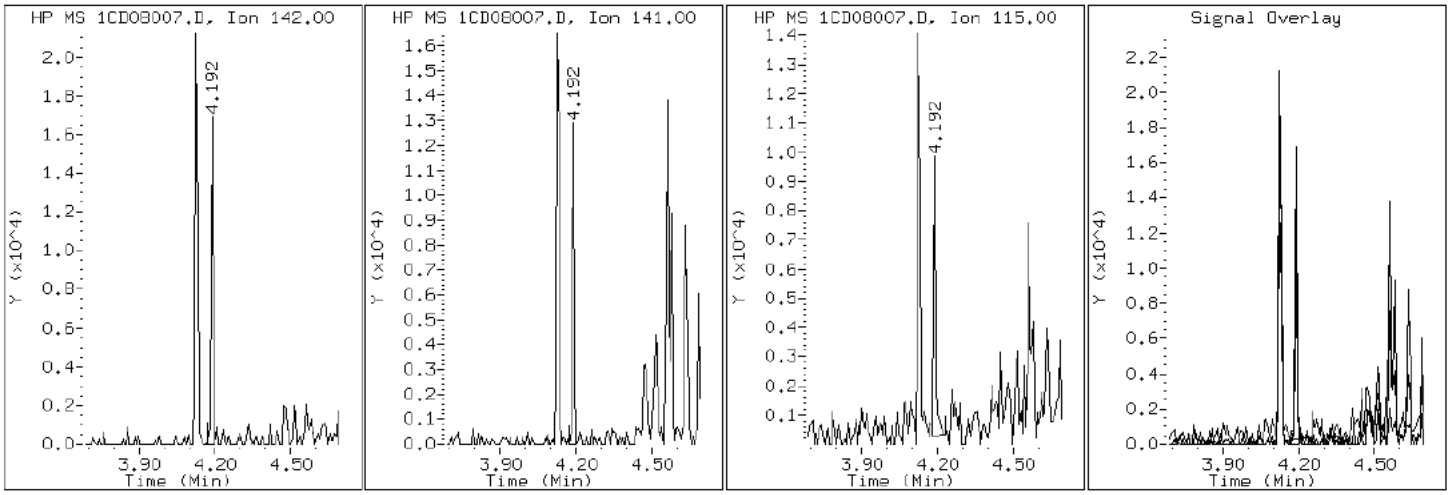
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

4 1-Methylnaphthalene



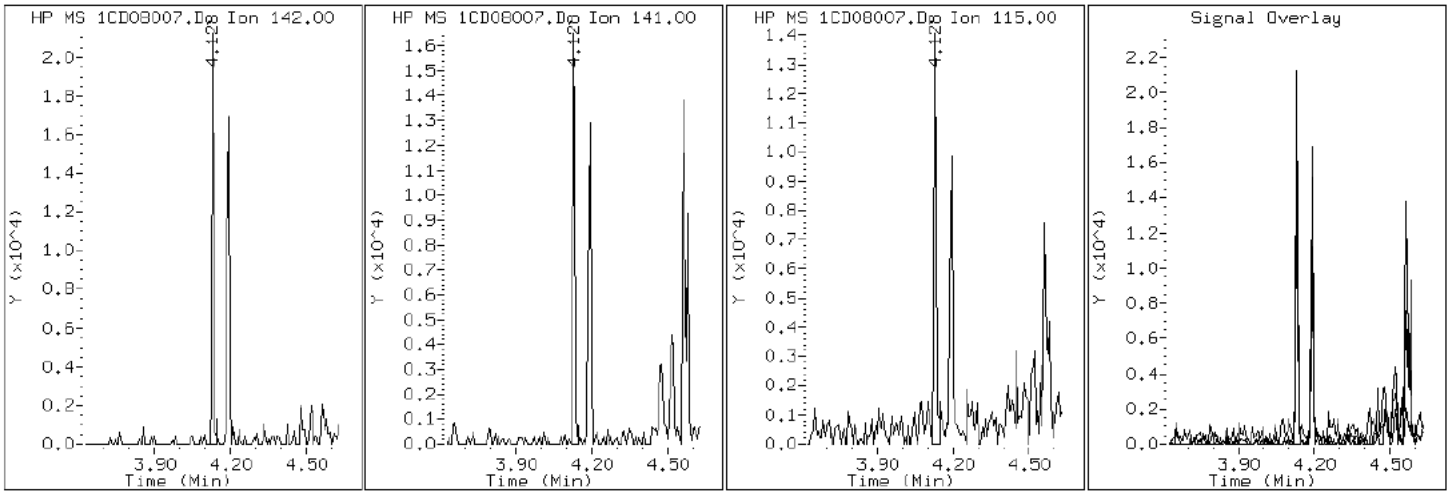
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

3 2-Methylnaphthalene



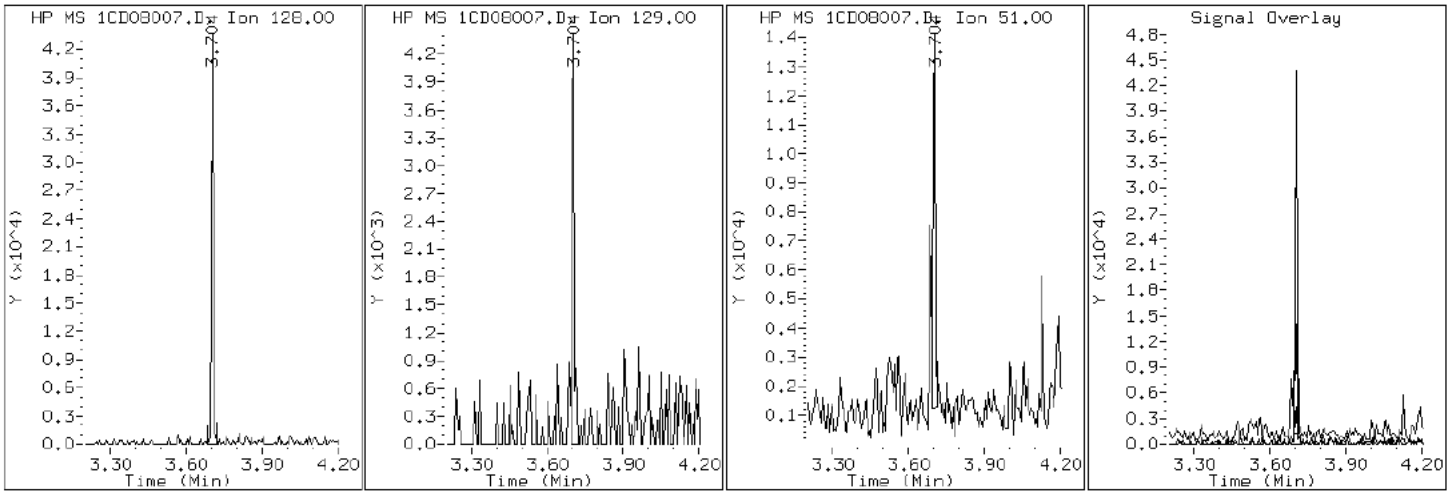
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

2 Naphthalene



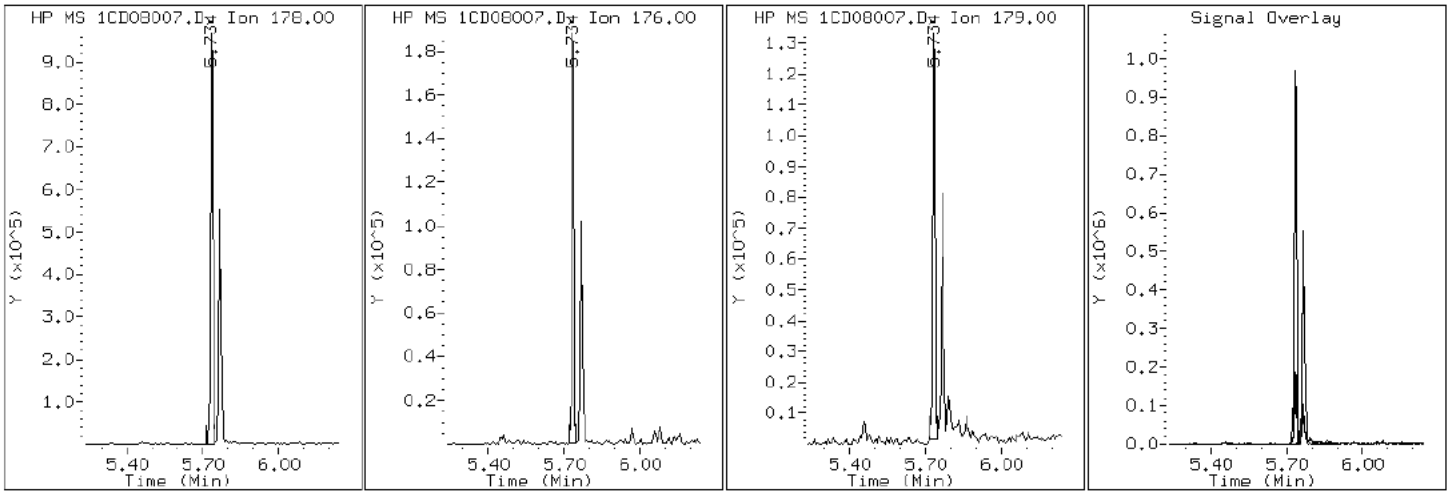
Data File: 1CD08007.D

Date: 08-APR-2013 14:22

Client ID: CV1039A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-A Operator: TP

11 Phenanthrene



Manual Integration Report

Data File: 1CD08007.D
Inj. Date and Time: 08-APR-2013 14:22
Instrument ID: BSMC5973.i
Client ID: CV1039A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

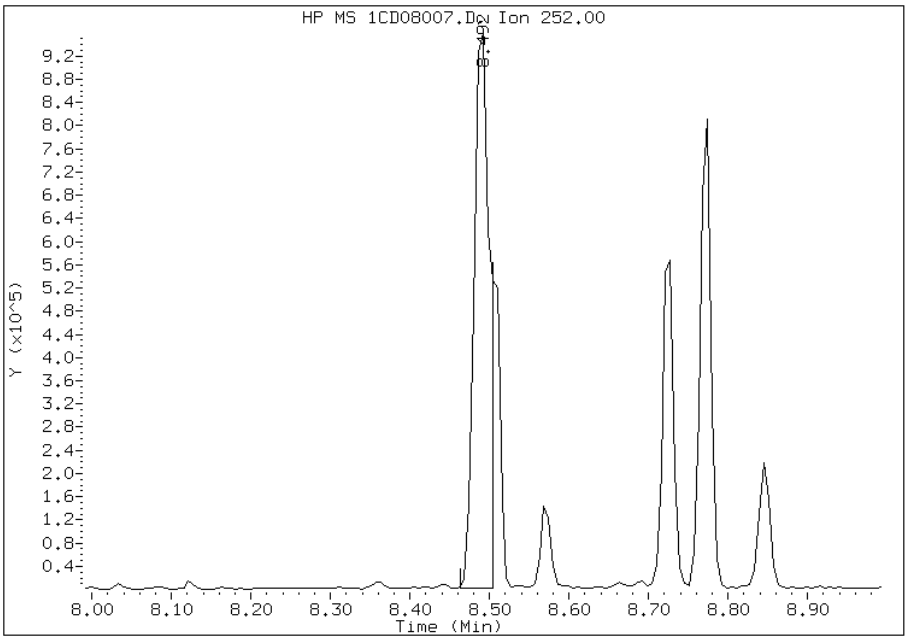
Processing Integration Results

RT: 8.49

Response: 1298089

Amount: 64

Conc: 6796



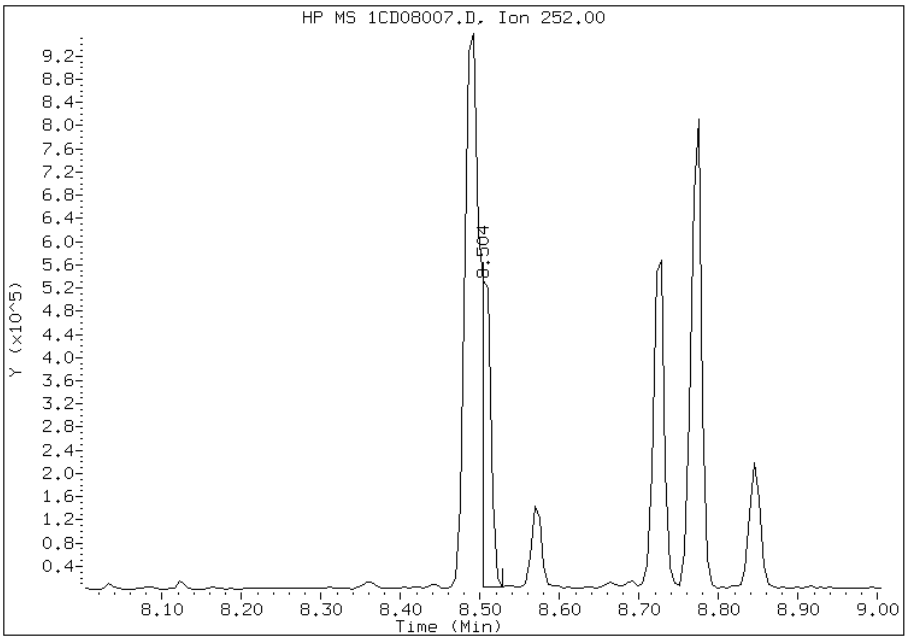
Manual Integration Results

RT: 8.50

Response: 428513

Amount: 21

Conc: 2243



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08007.D
Inj. Date and Time: 08-APR-2013 14:22
Instrument ID: BSMC5973.i
Client ID: CV1039A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

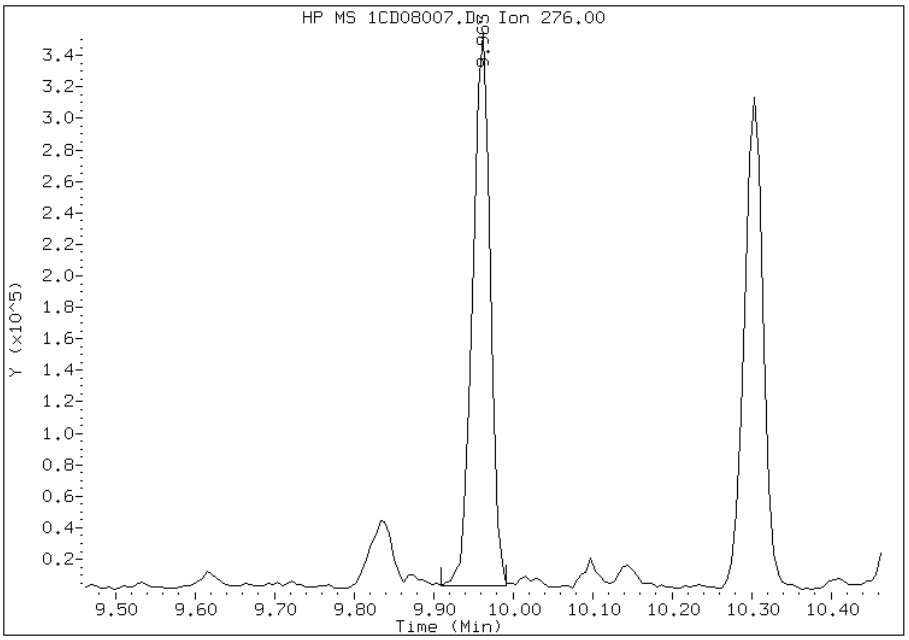
Processing Integration Results

RT: 9.96

Response: 534957

Amount: 28

Conc: 3029



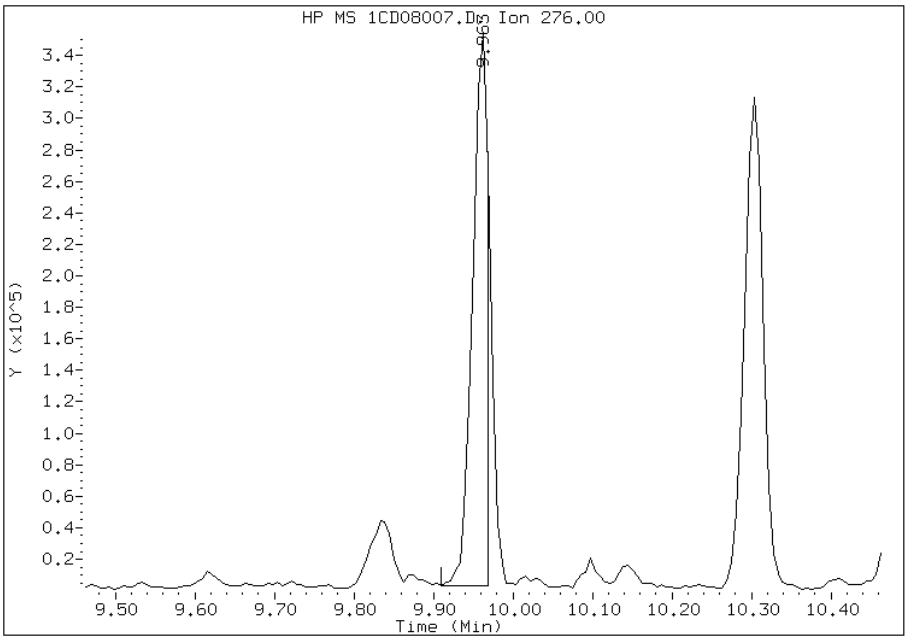
Manual Integration Results

RT: 9.96

Response: 469525

Amount: 25

Conc: 2659



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CS DL | Lab Sample ID: 680-88811-22 DL

Matrix: Solid | Lab File ID: 1AD09013.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/09/2013 15:35

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	5200	4	78	39
206-44-0	Fluoranthene	7300	4	130	26
129-00-0	Pyrene	6000	4	130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09013.D
Lab Smp Id: 680-88811-A-22-A Client Smp ID: CV1039A-CS
Inj Date : 09-APR-2013 15:35
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-A-22-A
Misc Info : 680-88811-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	37.303	% 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	2.590	2.591	(1.000)	1918740	40.0000	
*	6 Acenaphthene-d10	164	3.621	3.622	(1.000)	1049218	40.0000	
*	10 Phenanthrene-d10	188	4.577	4.573	(1.000)	1795943	40.0000	
$	14 o-Terphenyl	230	4.882	4.877	(1.067)	47672	1.20956	516.1807
*	18 Chrysene-d12	240	6.602	6.597	(1.000)	1612886	40.0000	
*	23 Perylene-d12	264	7.697	7.676	(1.000)	1715111	40.0000	
	2 Naphthalene	128	2.601	2.602	(1.004)	32150	0.69205	295.3331
	3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	13395	0.49026	209.2175
	4 1-Methylnaphthalene	142	3.060	3.062	(1.181)	12164	0.49380	210.7283
	5 Acenaphthylene	152	3.531	3.532	(0.975)	17243	0.62639	267.3106
	7 Acenaphthene	154	3.637	3.638	(1.004)	12966	0.70796	302.1247
	9 Fluorene	166	3.952	3.953	(1.091)	25098	0.68159	290.8705
	11 Phenanthrene	178	4.593	4.589	(1.003)	461799	6.88198	2936.8930
	12 Anthracene	178	4.625	4.626	(1.010)	254263	3.38368	1443.9906

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.748	4.755	(1.037)	27611	0.45800	195.4498
15 Fluoranthene	202	5.459	5.454	(1.193)	1126115	17.2094	7344.1345
16 Pyrene	202	5.624	5.620	(0.852)	879594	14.1524	6039.5705
17 Benzo(a)anthracene	228	6.586	6.581	(0.998)	461296	8.57412	3659.0167
19 Chrysene	228	6.612	6.613	(1.002)	452555	8.24759	3519.6691
20 Benzo(b)fluoranthene	252	7.413	7.404	(0.963)	628726	12.0897	5159.2852(M)
21 Benzo(k)fluoranthene	252	7.424	7.425	(0.965)	232854	4.03143	1720.4190(QM)
22 Benzo(a)pyrene	252	7.638	7.628	(0.992)	413854	7.68080	3277.7874
24 Indeno(1,2,3-cd)pyrene	276	8.466	8.451	(1.100)	300446	6.46702	2759.8082(M)
25 Dibenzo(a,h)anthracene	278	8.492	8.477	(1.103)	89735	2.06951	883.1657
26 Benzo(g,h,i)perylene	276	8.685	8.670	(1.128)	337894	7.23332	3086.8250

QC Flag Legend

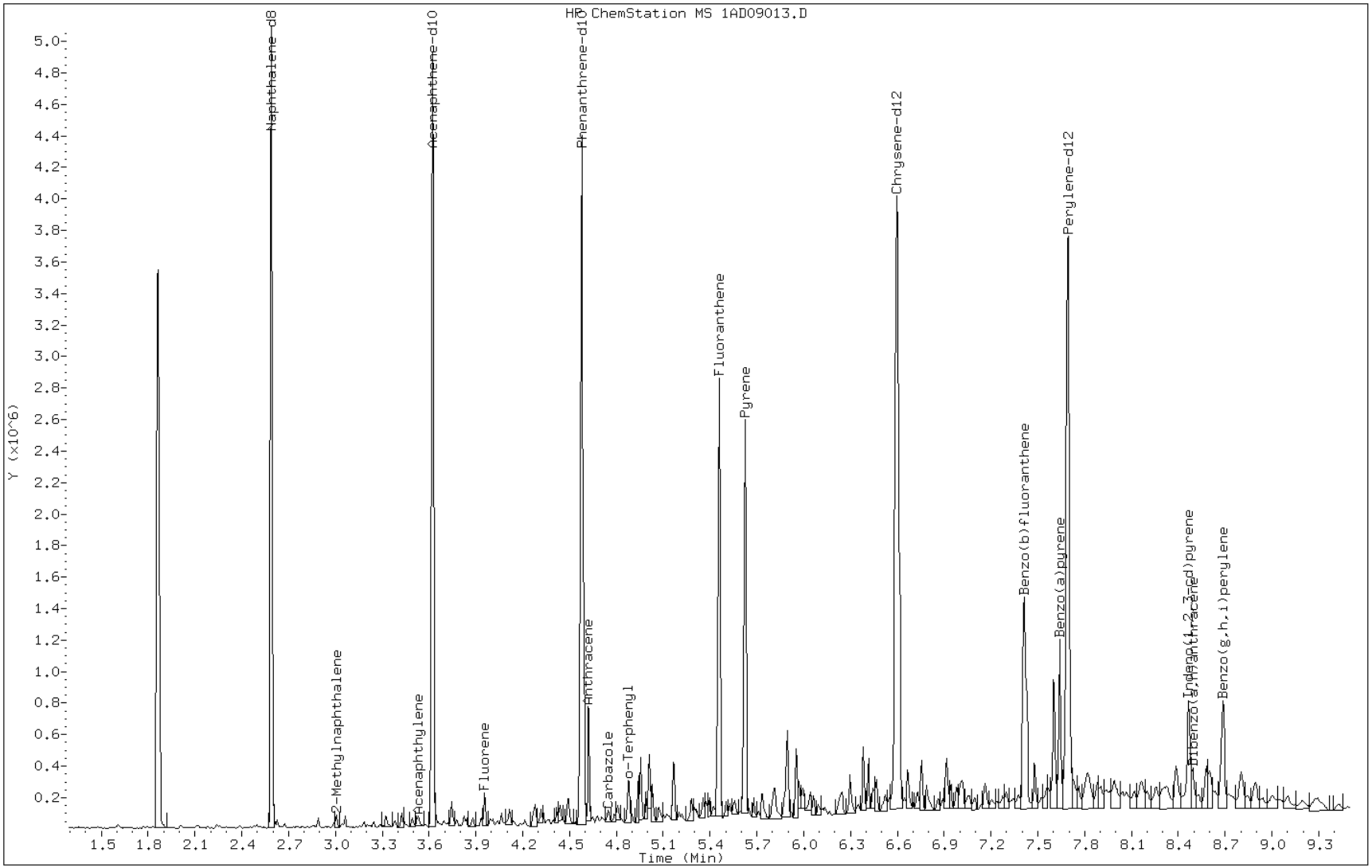
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AD09013.D

Date: 09-APR-2013 15:35

Client ID: CV1039A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-A Operator: SCC



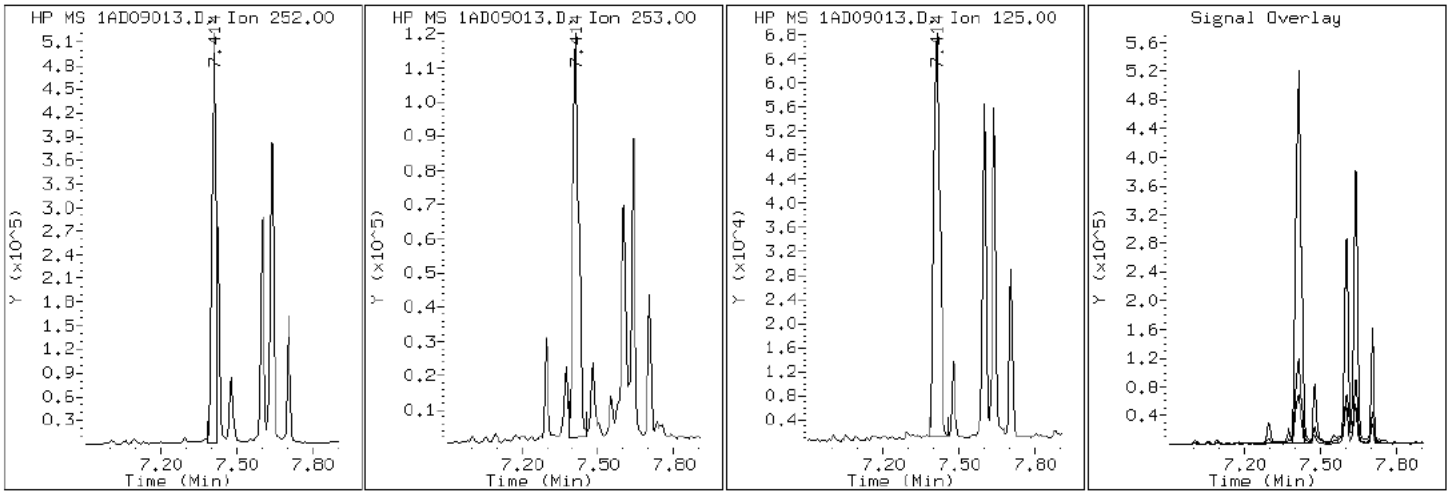
Data File: 1AD09013.D

Date: 09-APR-2013 15:35

Client ID: CV1039A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-A Operator: SCC

20 Benzo(b)fluoranthene



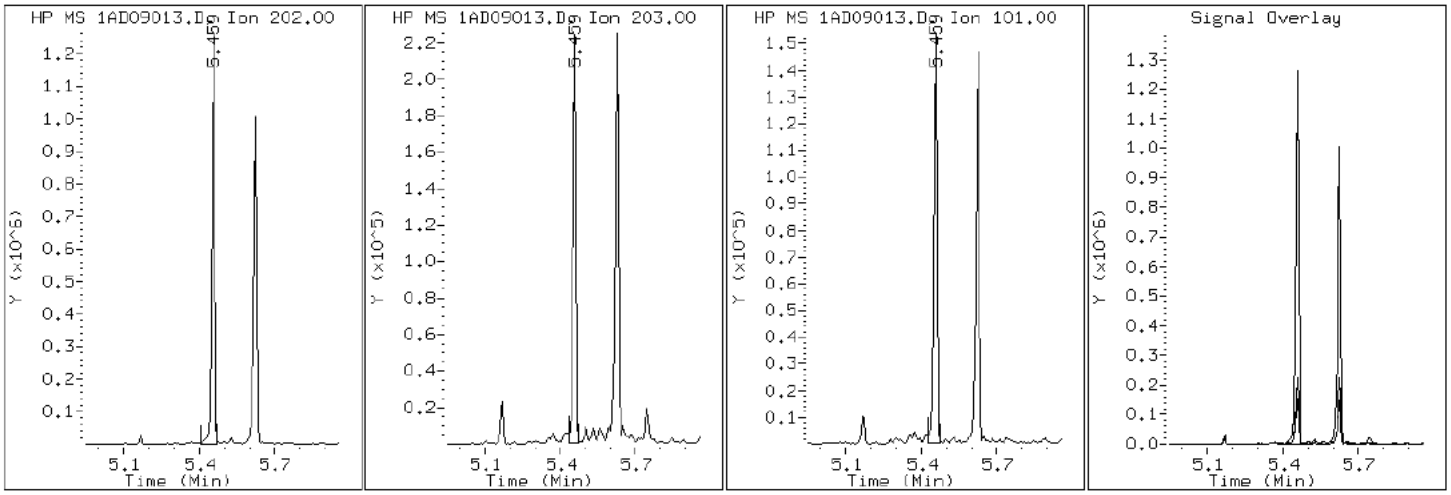
Data File: 1AD09013.D

Date: 09-APR-2013 15:35

Client ID: CV1039A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-A Operator: SCC

15 Fluoranthene



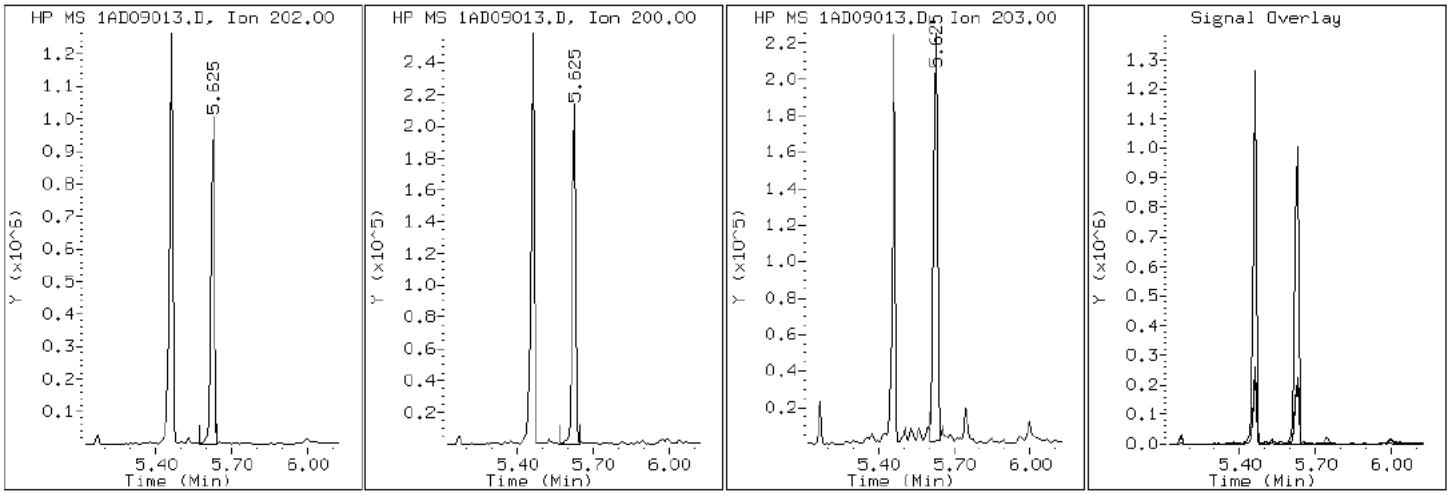
Data File: 1AD09013.D

Date: 09-APR-2013 15:35

Client ID: CV1039A-CS Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AD09013.D
Inj. Date and Time: 09-APR-2013 15:35
Instrument ID: BSMA5973.i
Client ID: CV1039A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

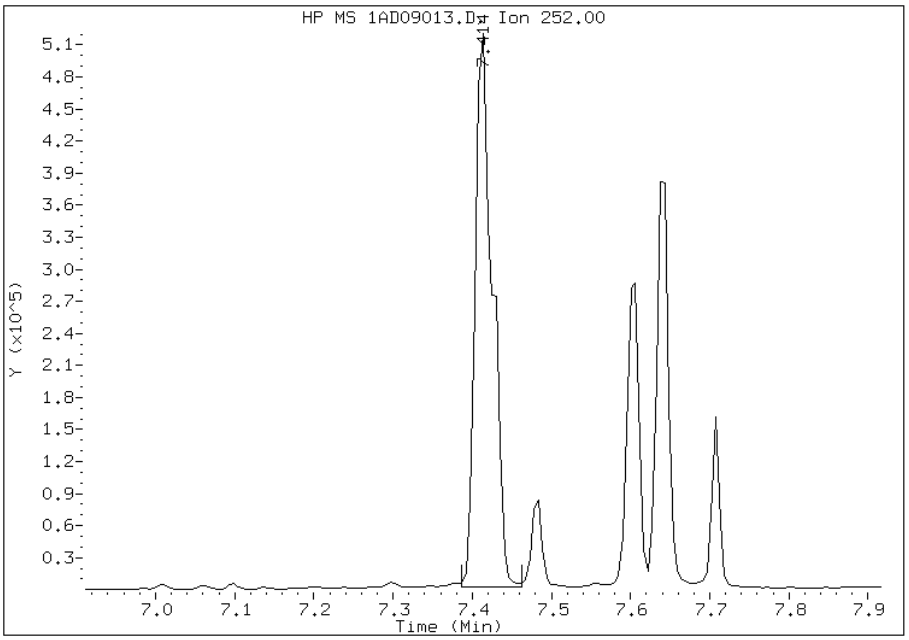
Processing Integration Results

RT: 7.41

Response: 775953

Amount: 15

Conc: 6367



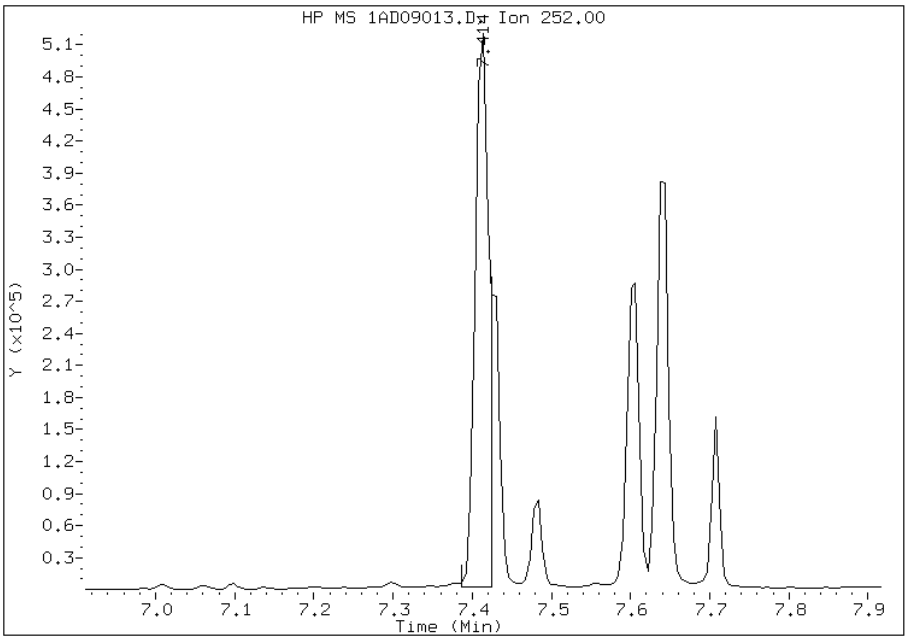
Manual Integration Results

RT: 7.41

Response: 628726

Amount: 12

Conc: 5159



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 17:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CSD | Lab Sample ID: 680-88811-23

Matrix: Solid | Lab File ID: 1CD08015.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.40(g) | Date Analyzed: 04/08/2013 16:49

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

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

% Moisture: 16.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	86	J	120	23
208-96-8	Acenaphthylene	120		47	5.8
120-12-7	Anthracene	180		9.8	4.9
56-55-3	Benzo[a]anthracene	860		9.3	4.5
50-32-8	Benzo[a]pyrene	720		12	6.1
205-99-2	Benzo[b]fluoranthene	1100		14	7.1
191-24-2	Benzo[g,h,i]perylene	490		23	5.1
207-08-9	Benzo[k]fluoranthene	480		9.3	4.2
218-01-9	Chrysene	810		10	5.2
53-70-3	Dibenz(a,h)anthracene	140		23	4.8
206-44-0	Fluoranthene	1400		23	4.7
86-73-7	Fluorene	59		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	460		23	8.3
90-12-0	1-Methylnaphthalene	110		47	5.1
91-57-6	2-Methylnaphthalene	160		47	8.3
91-20-3	Naphthalene	400		47	5.1
85-01-8	Phenanthrene	780		9.3	4.5
129-00-0	Pyrene	1300		23	4.3

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\1C040813.b\1CD08015.D
Lab Smp Id: 680-88811-A-23-A Client Smp ID: CV1039A-CSD
Inj Date : 08-APR-2013 16:49
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-23-A
Misc Info : 680-88811-A-23-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.400	Weight Extracted
M	16.481	% 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	3.692	3.692	(1.000)	429676	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	325606	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	641831	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	75610	7.94267	617.5343
* 18 Chrysene-d12	240	7.656	7.656	(1.000)	663250	40.0000	
* 23 Perylene-d12	264	8.821	8.821	(1.000)	628028	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	56437	5.11384	397.5952
3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	15370	2.04593	159.0688
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	9355	1.38392	107.5986
5 Acenaphthylene	152	4.692	4.686	(0.983)	20447	1.51729	117.9673
7 Acenaphthene	154	4.798	4.798	(1.005)	9220	1.10464	85.8843
9 Fluorene	166	5.115	5.115	(1.071)	8461	0.76041	59.1211(Q)
11 Phenanthrene	178	5.739	5.739	(1.003)	187617	10.0367	780.3423
12 Anthracene	178	5.768	5.768	(1.008)	44767	2.36246	183.6786

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	30248	1.86317	144.8590
15 Fluoranthene	202	6.568	6.568	(1.148)	376139	18.2201	1416.5930
16 Pyrene	202	6.739	6.739	(0.880)	310094	16.8781	1312.2561
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	209274	11.0253	857.2071
19 Chrysene	228	7.674	7.674	(1.002)	196857	10.4159	809.8222
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	261393	14.7223	1144.6441(M)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	105263	6.12986	476.5899(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	155018	9.27373	721.0228
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	94523	5.95351	462.8790(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	27060	1.84503	143.4487
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	101276	6.24998	485.9289

QC Flag Legend

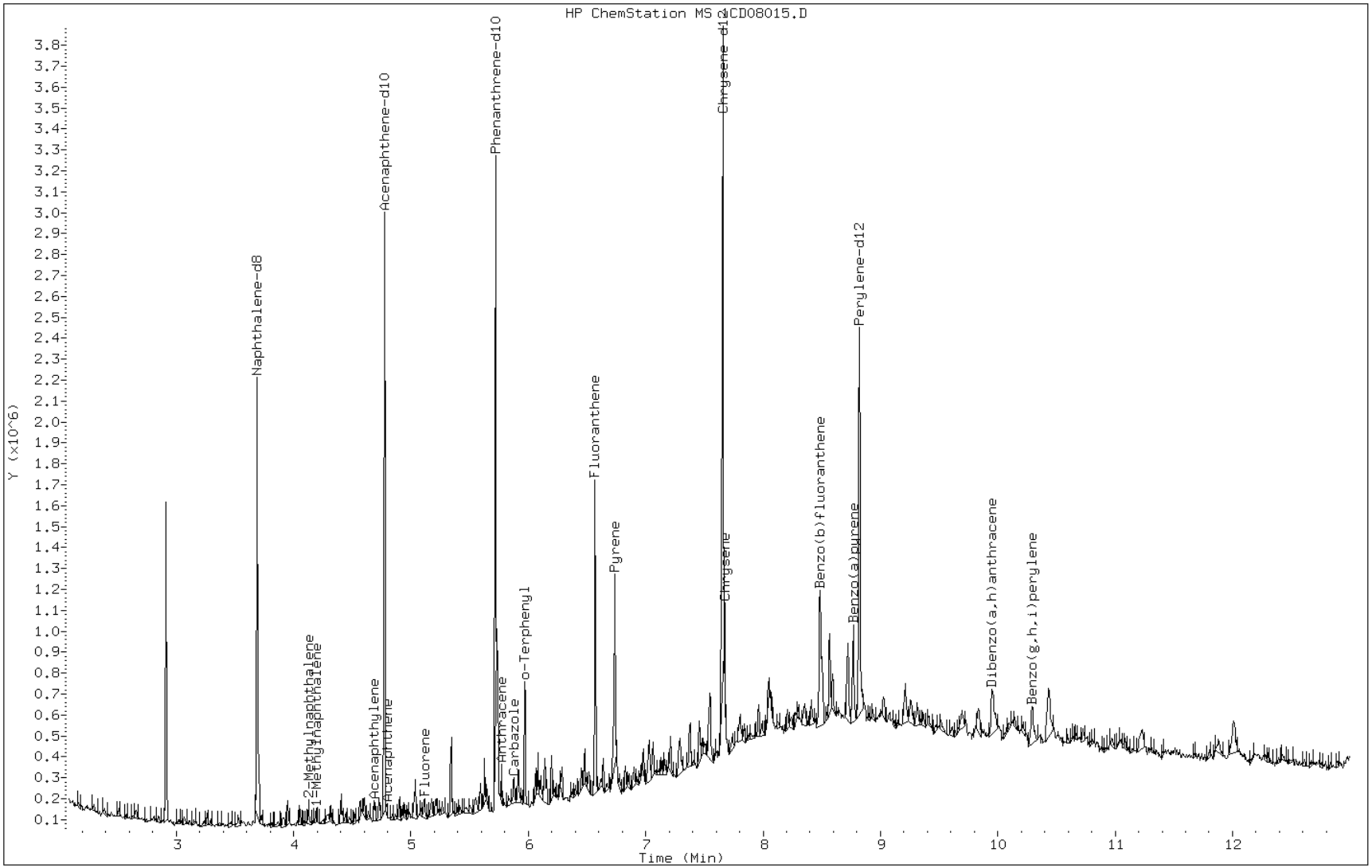
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP



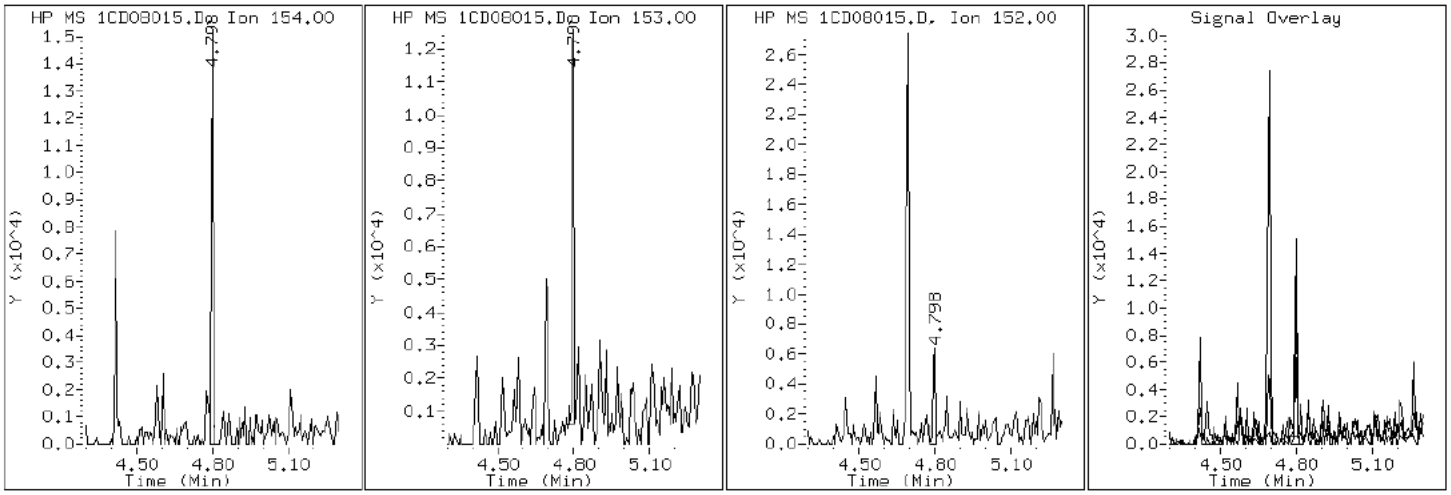
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

7 Acenaphthene



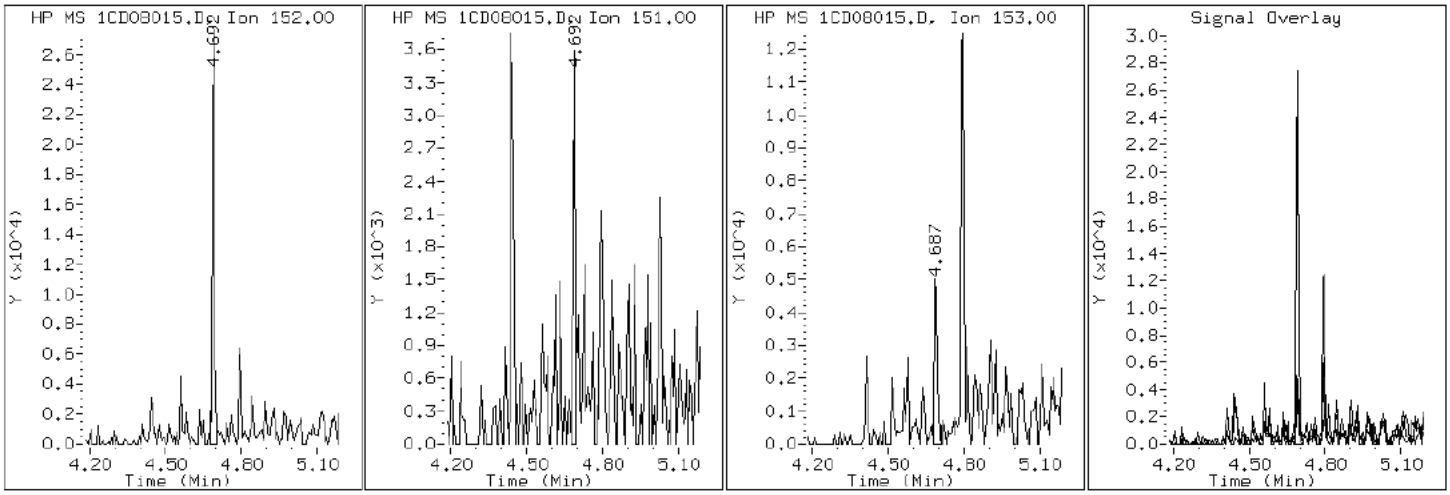
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

5 Acenaphthylene



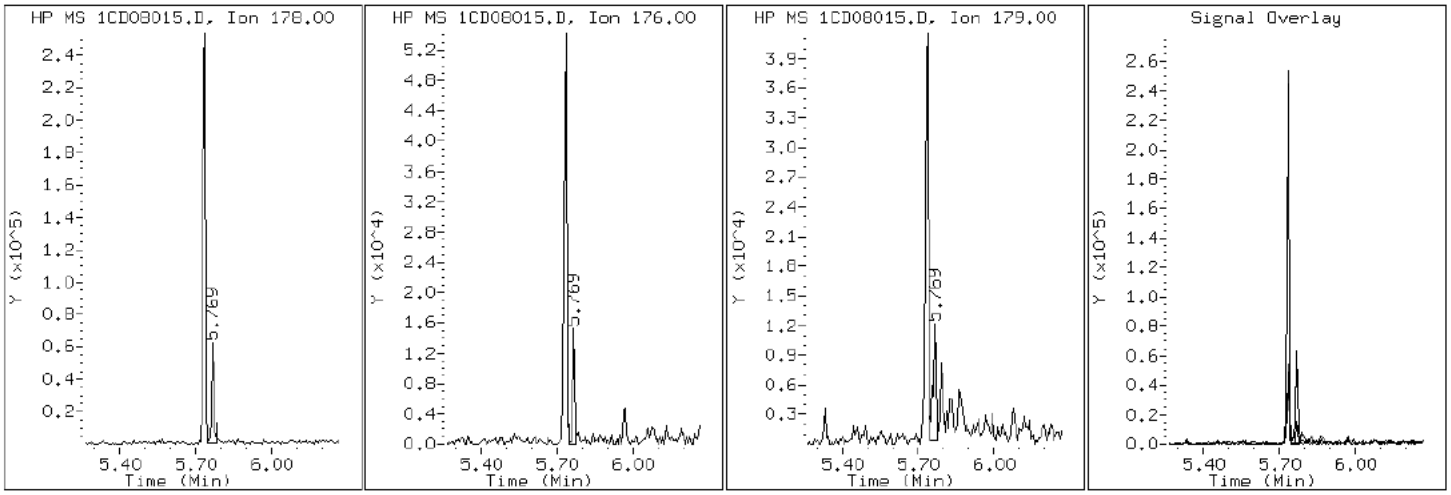
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

12 Anthracene



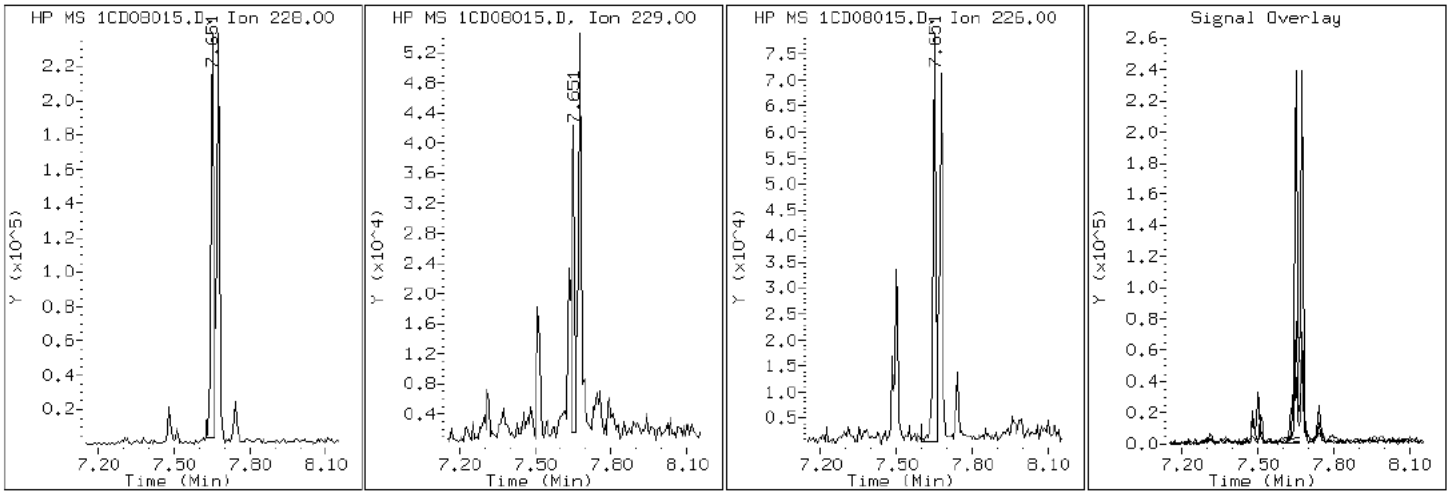
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

17 Benzo(a)anthracene



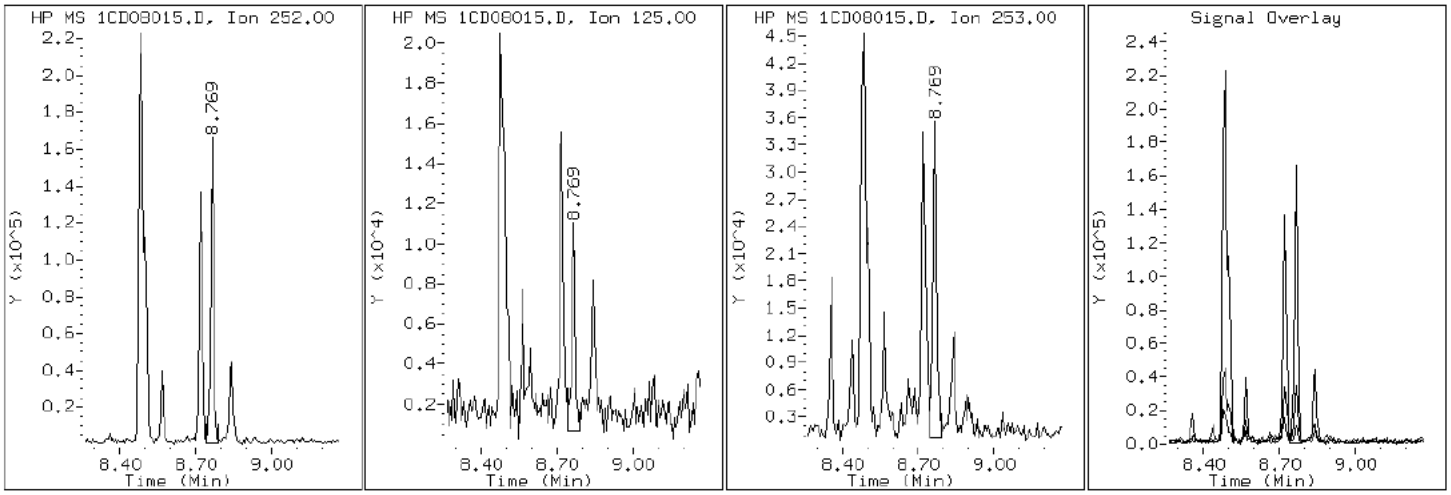
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

22 Benzo(a)pyrene



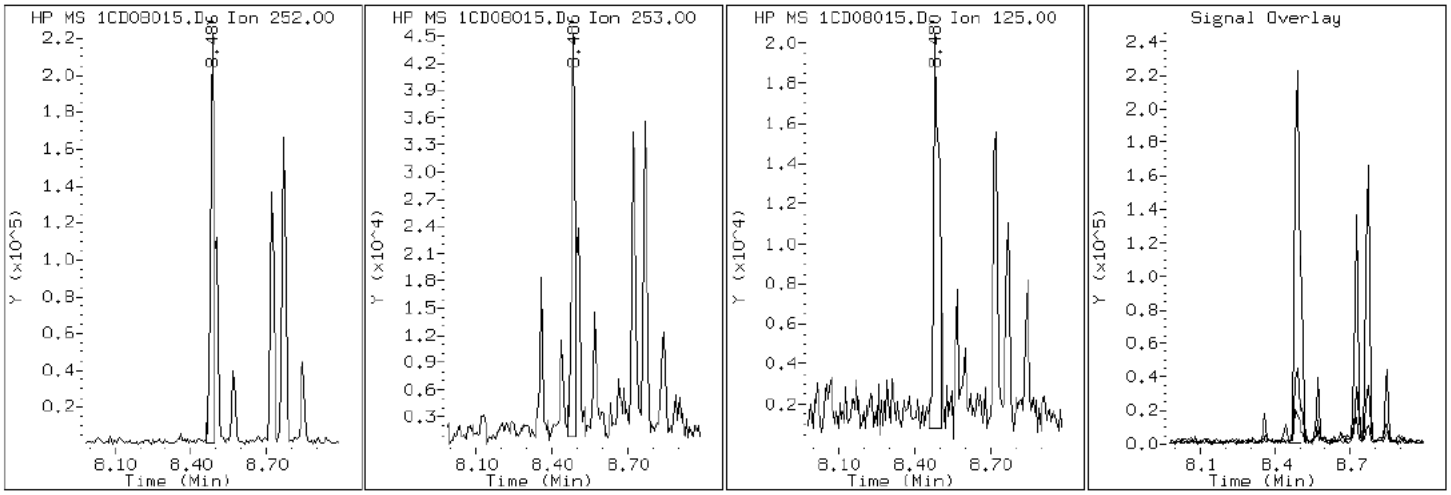
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

20 Benzo(b)fluoranthene



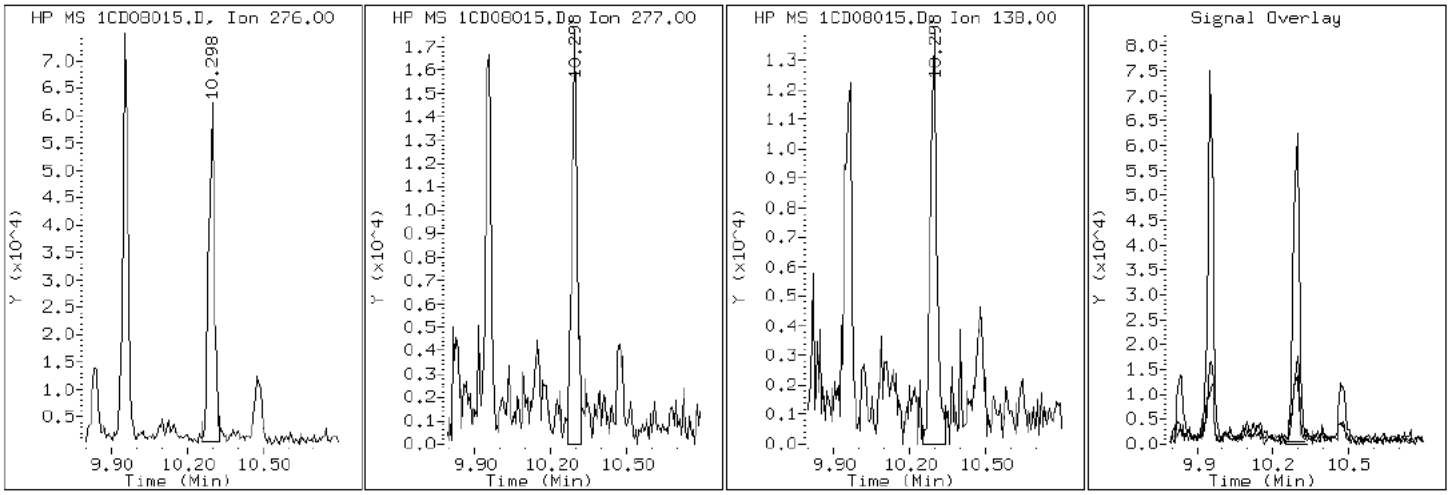
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

26 Benzo(g,h,i)perylene



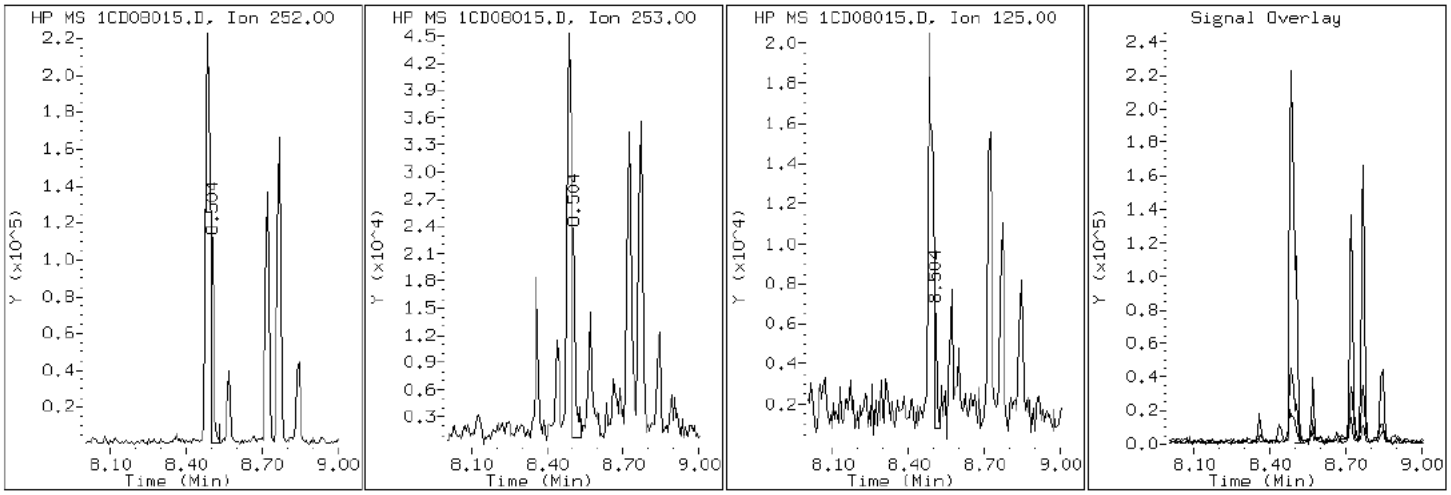
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

21 Benzo(k)fluoranthene



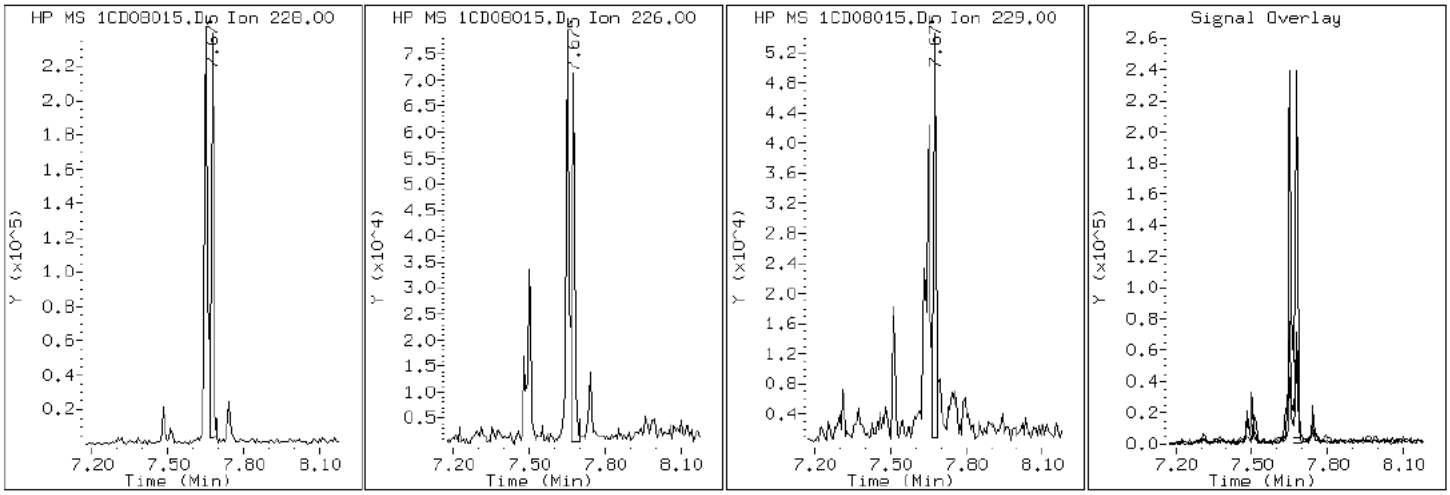
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

19 Chrysene



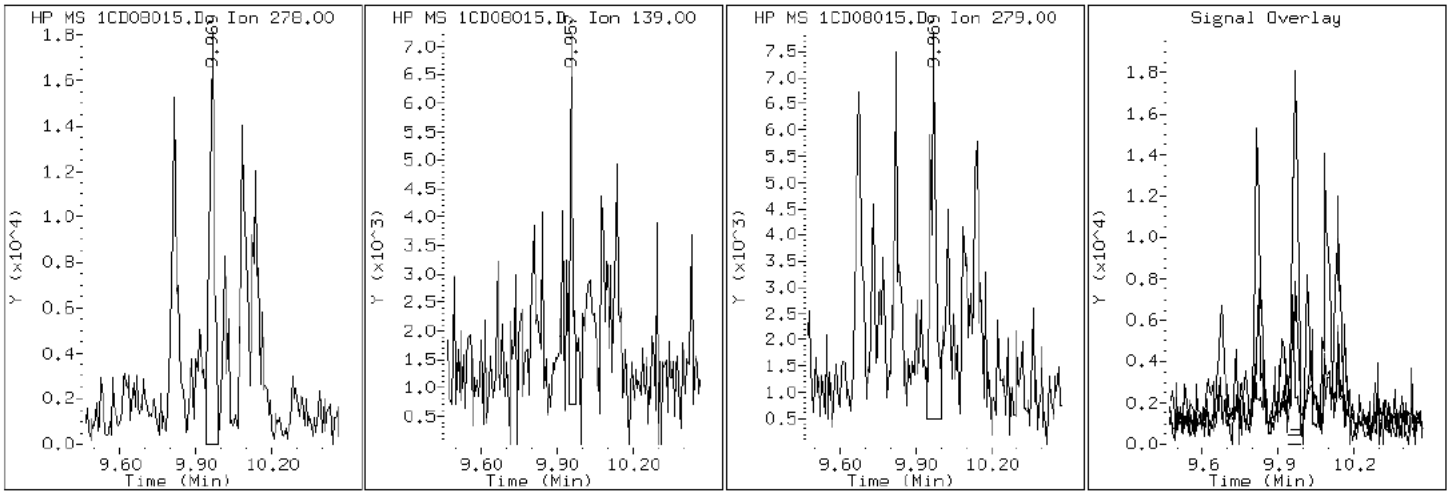
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

25 Dibenzo(a,h)anthracene



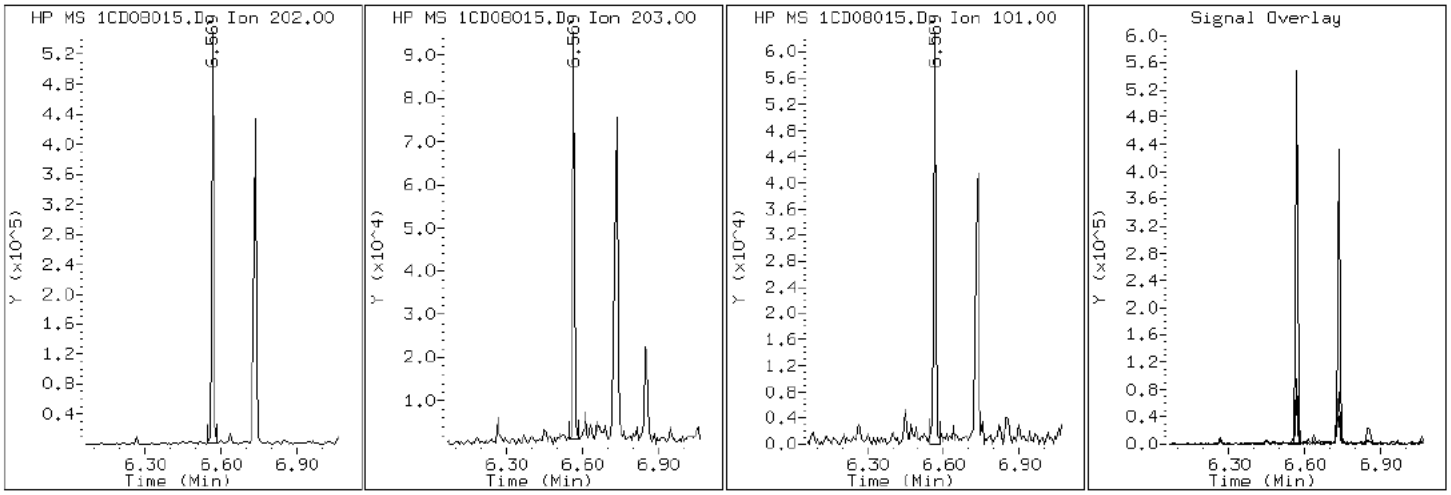
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

15 Fluoranthene



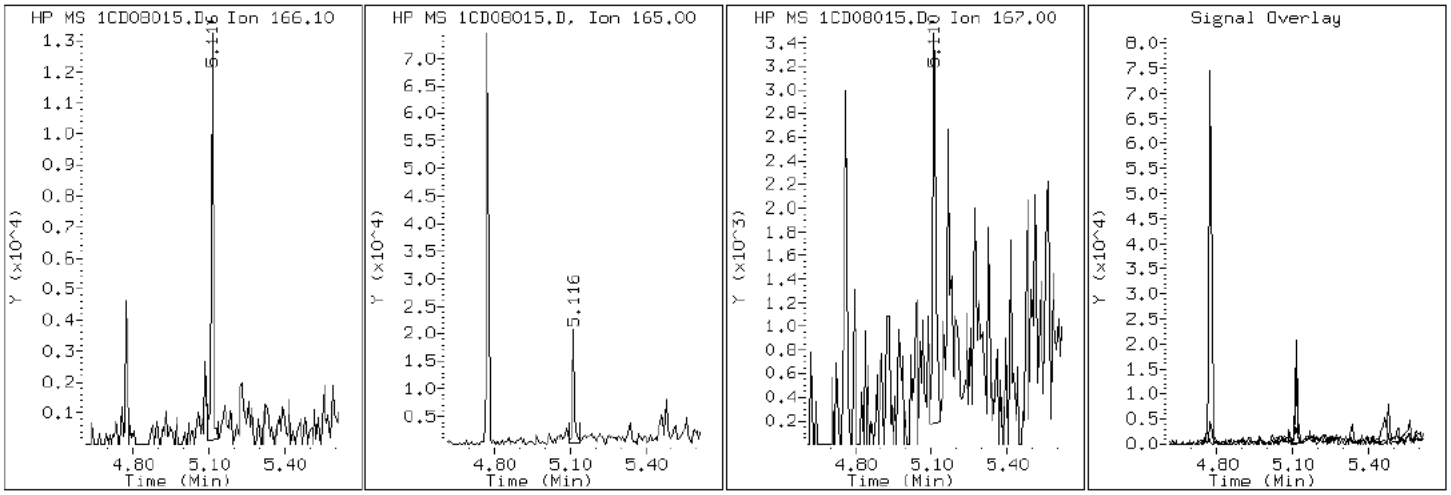
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

9 Fluorene



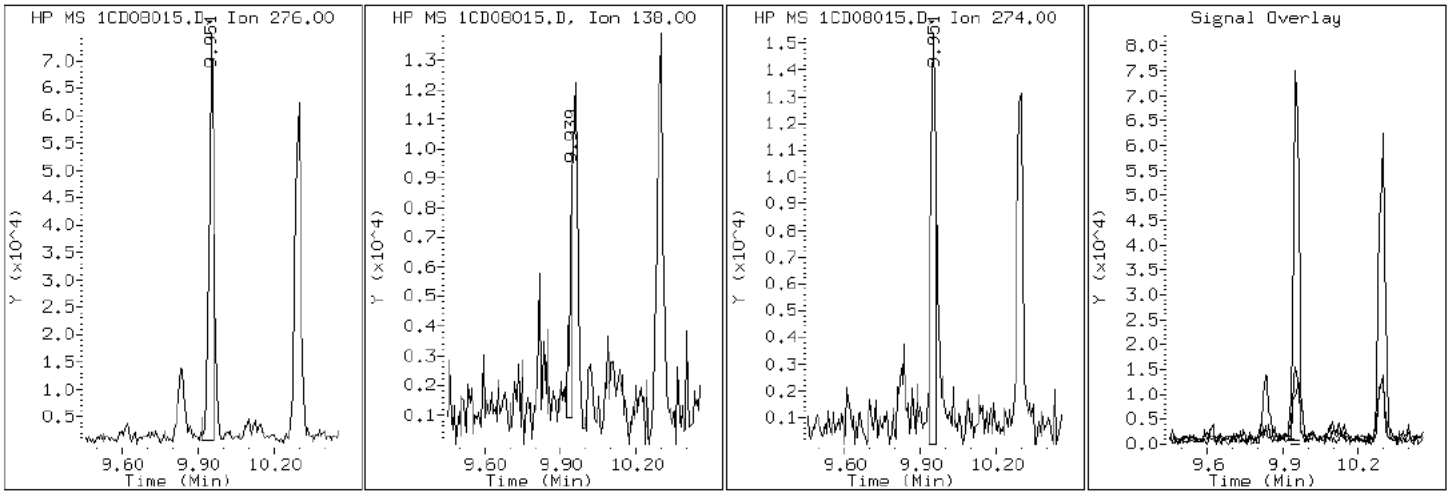
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

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



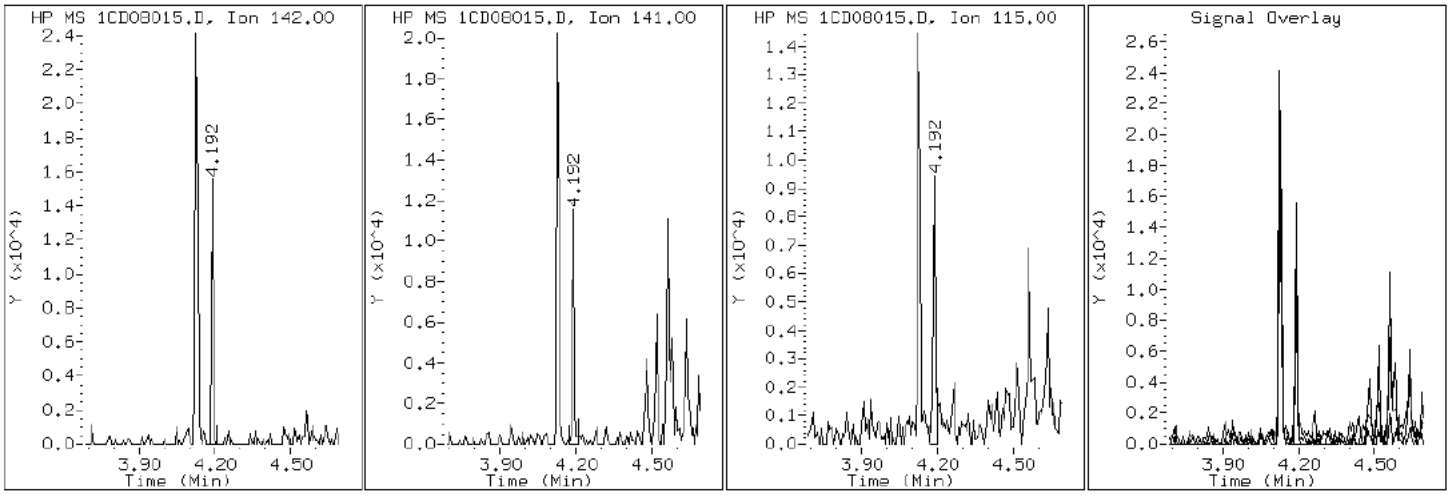
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

4 1-Methylnaphthalene



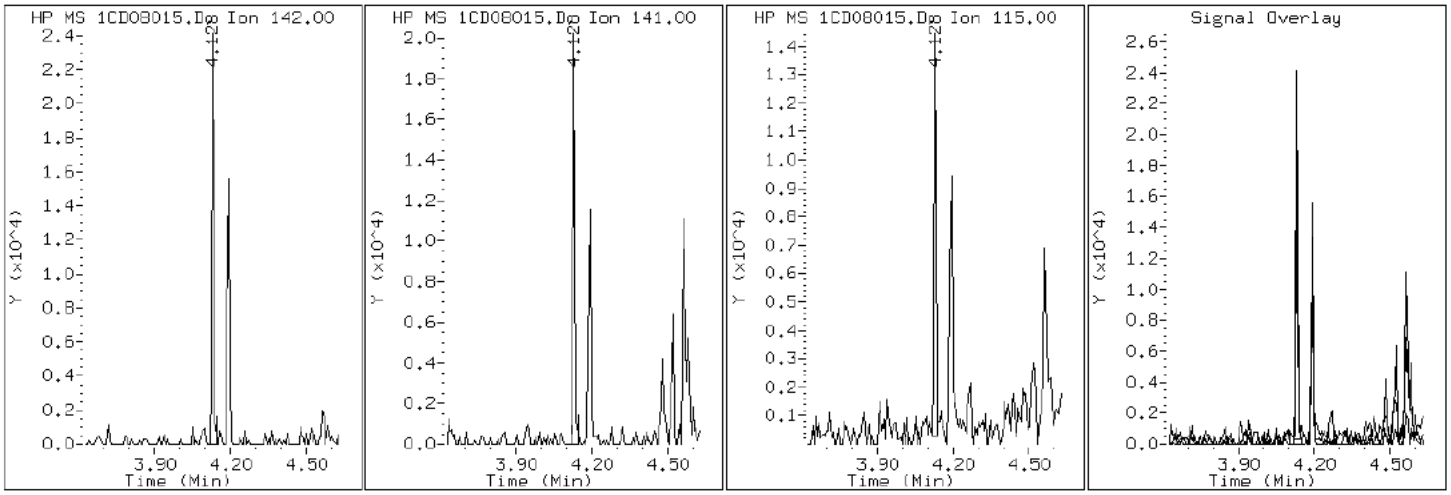
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

3 2-Methylnaphthalene



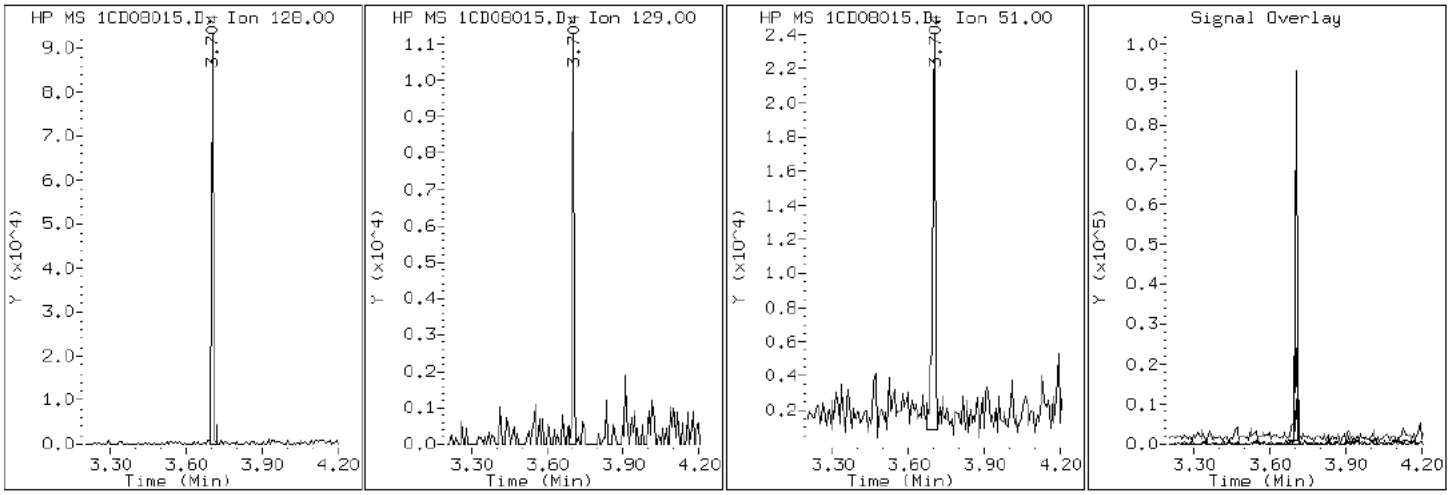
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

2 Naphthalene



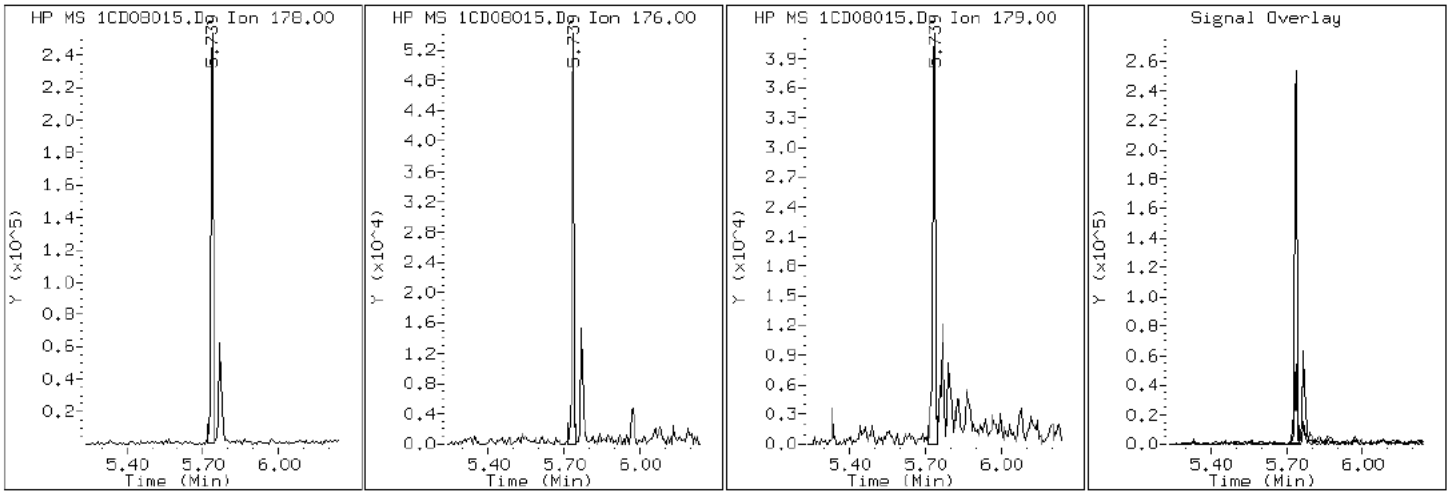
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

11 Phenanthrene



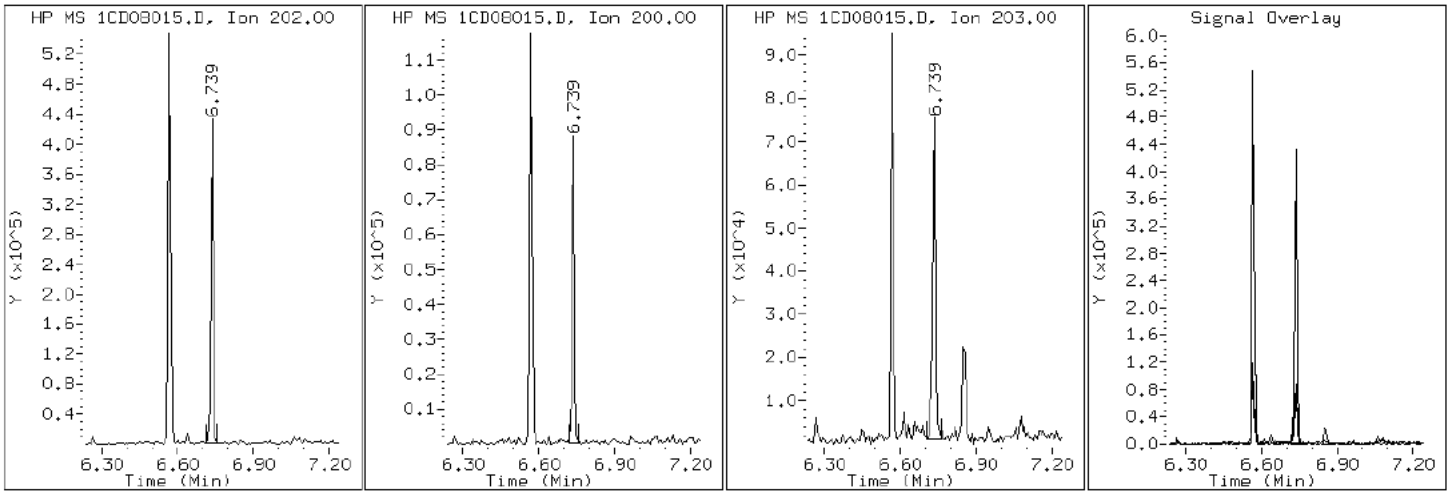
Data File: 1CD08015.D

Date: 08-APR-2013 16:49

Client ID: CV1039A-CSD Instrument: BSMC5973.i

Sample Info: 680-88811-A-23-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08015.D
Inj. Date and Time: 08-APR-2013 16:49
Instrument ID: BSMC5973.i
Client ID: CV1039A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

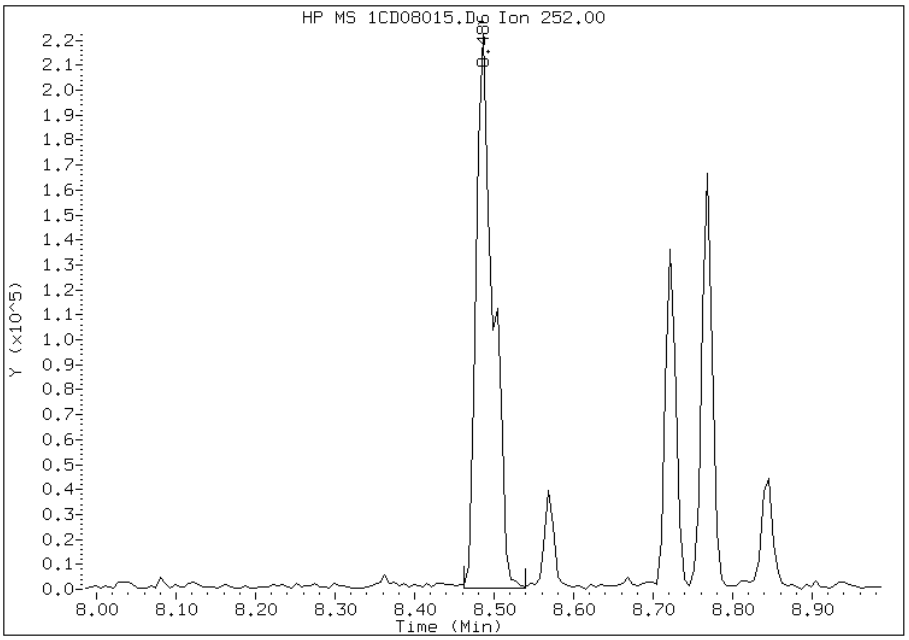
Processing Integration Results

RT: 8.49

Response: 329944

Amount: 19

Conc: 1445



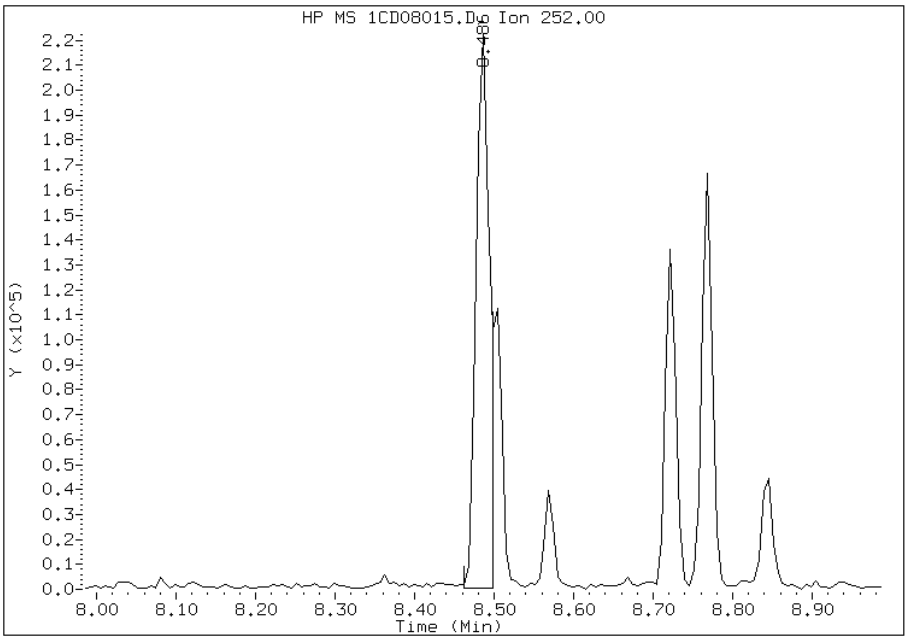
Manual Integration Results

RT: 8.49

Response: 261393

Amount: 15

Conc: 1145



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08015.D
Inj. Date and Time: 08-APR-2013 16:49
Instrument ID: BSMC5973.i
Client ID: CV1039A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

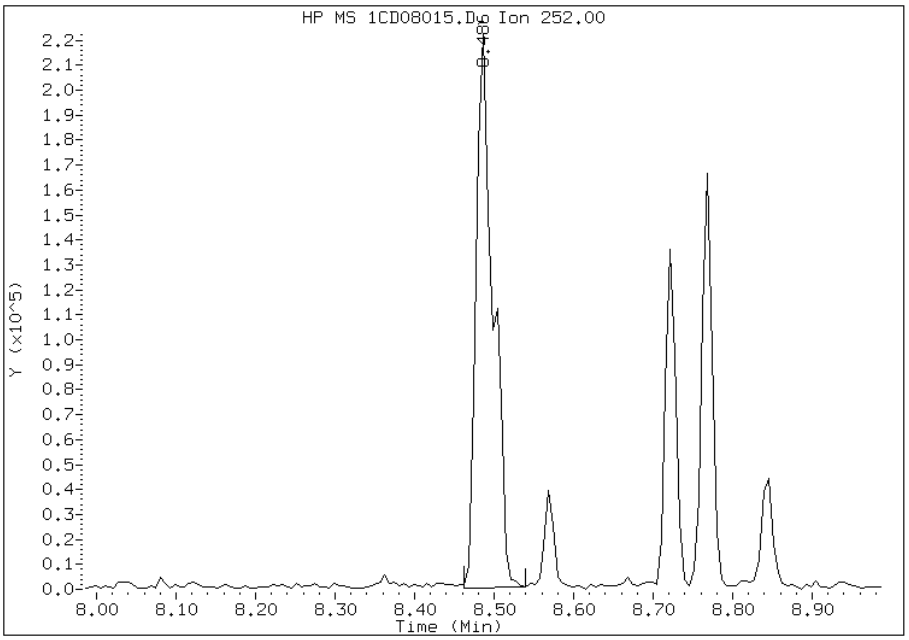
Processing Integration Results

RT: 8.49

Response: 328951

Amount: 19

Conc: 1489



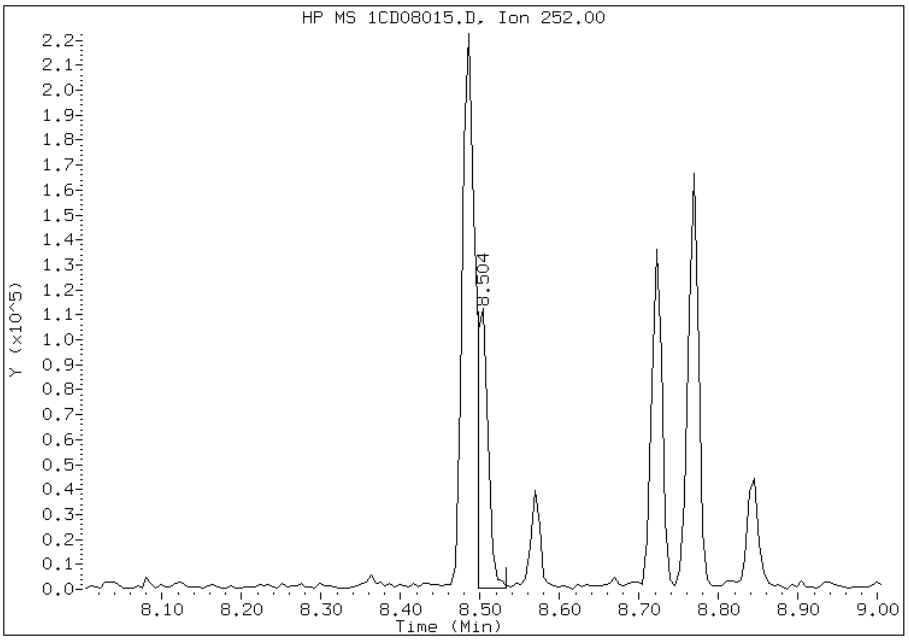
Manual Integration Results

RT: 8.50

Response: 105263

Amount: 6

Conc: 477



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08015.D
Inj. Date and Time: 08-APR-2013 16:49
Instrument ID: BSMC5973.i
Client ID: CV1039A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

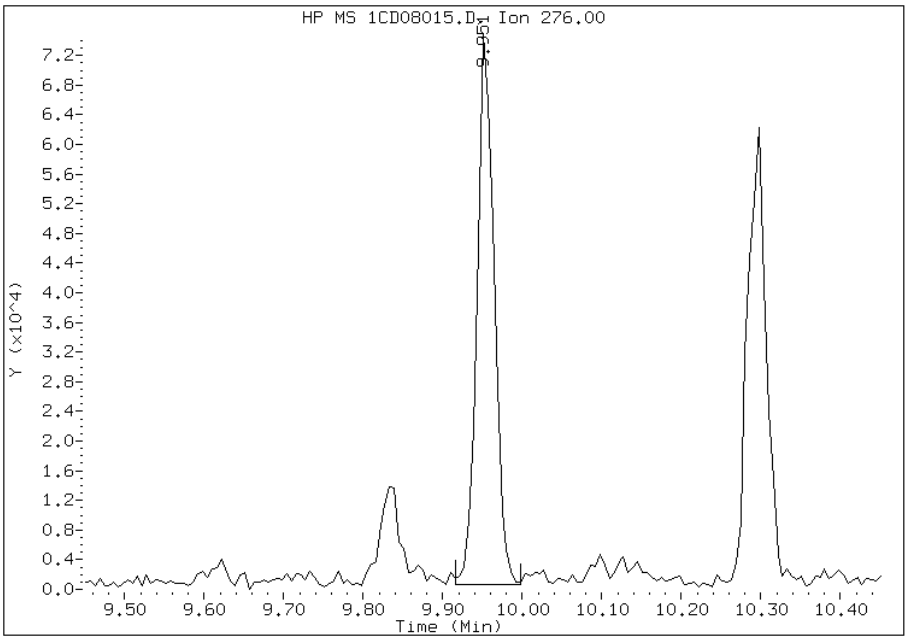
Processing Integration Results

RT: 9.95

Response: 109831

Amount: 7

Conc: 538



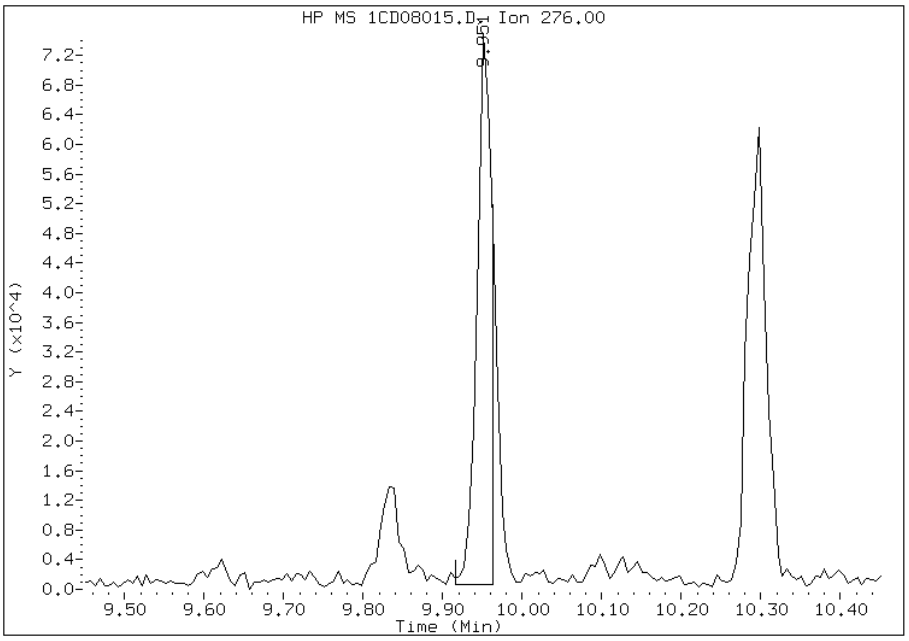
Manual Integration Results

RT: 9.95

Response: 94523

Amount: 6

Conc: 463



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039B-CS | Lab Sample ID: 680-88811-24

Matrix: Solid | Lab File ID: 1CD08016.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:50

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.01(g) | Date Analyzed: 04/08/2013 17:07

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

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

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	33	J	48	6.1
120-12-7	Anthracene	38		10	5.1
56-55-3	Benzo[a]anthracene	190		9.7	4.7
50-32-8	Benzo[a]pyrene	220		13	6.3
205-99-2	Benzo[b]fluoranthene	350		15	7.4
191-24-2	Benzo[g,h,i]perylene	270		24	5.3
207-08-9	Benzo[k]fluoranthene	140		9.7	4.4
218-01-9	Chrysene	260		11	5.5
53-70-3	Dibenz(a,h)anthracene	41		24	5.0
206-44-0	Fluoranthene	300		24	4.8
86-73-7	Fluorene	20	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	190		24	8.6
90-12-0	1-Methylnaphthalene	130		48	5.3
91-57-6	2-Methylnaphthalene	170		48	8.6
91-20-3	Naphthalene	180		48	5.3
85-01-8	Phenanthrene	240		9.7	4.7
129-00-0	Pyrene	290		24	4.5

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\1C040813.b\1CD08016.D
Lab Smp Id: 680-88811-A-24-A Client Smp ID: CV1039B-CS
Inj Date : 08-APR-2013 17:07
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-24-A
Misc Info : 680-88811-A-24-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	17.495	% 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	3.692	3.692	(1.000)	440708	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	324235	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	619075	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	54255	6.09461	492.1337
* 18 Chrysene-d12	240	7.657	7.656	(1.000)	670940	40.0000	
* 23 Perylene-d12	264	8.827	8.821	(1.000)	593165	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	24943	2.20354	177.9339
3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	15992	2.07544	167.5895
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	10983	1.58409	127.9135
5 Acenaphthylene	152	4.686	4.686	(0.982)	5526	0.41180	33.2520
9 Fluorene	166	5.116	5.115	(1.071)	2759	0.24901	20.1070(Q)
11 Phenanthrene	178	5.733	5.739	(1.002)	53807	2.98425	240.9748
12 Anthracene	178	5.768	5.768	(1.008)	8677	0.47474	38.3345
13 Carbazole	167	5.880	5.880	(1.028)	5992	0.38265	30.8987

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	73249	3.67859	297.0423
16 Pyrene	202	6.739	6.739	(0.880)	65809	3.54087	285.9214
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	42569	2.32534	187.7690
19 Chrysene	228	7.674	7.674	(1.002)	60933	3.18706	257.3519
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	73325	4.37258	353.0812(M)
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.963)	27544	1.69826	137.1330(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	43260	2.74008	221.2582
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	35181	2.34610	189.4454(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.130)	6959	0.50237	40.5659(Q)
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	50761	3.31669	267.8196

QC Flag Legend

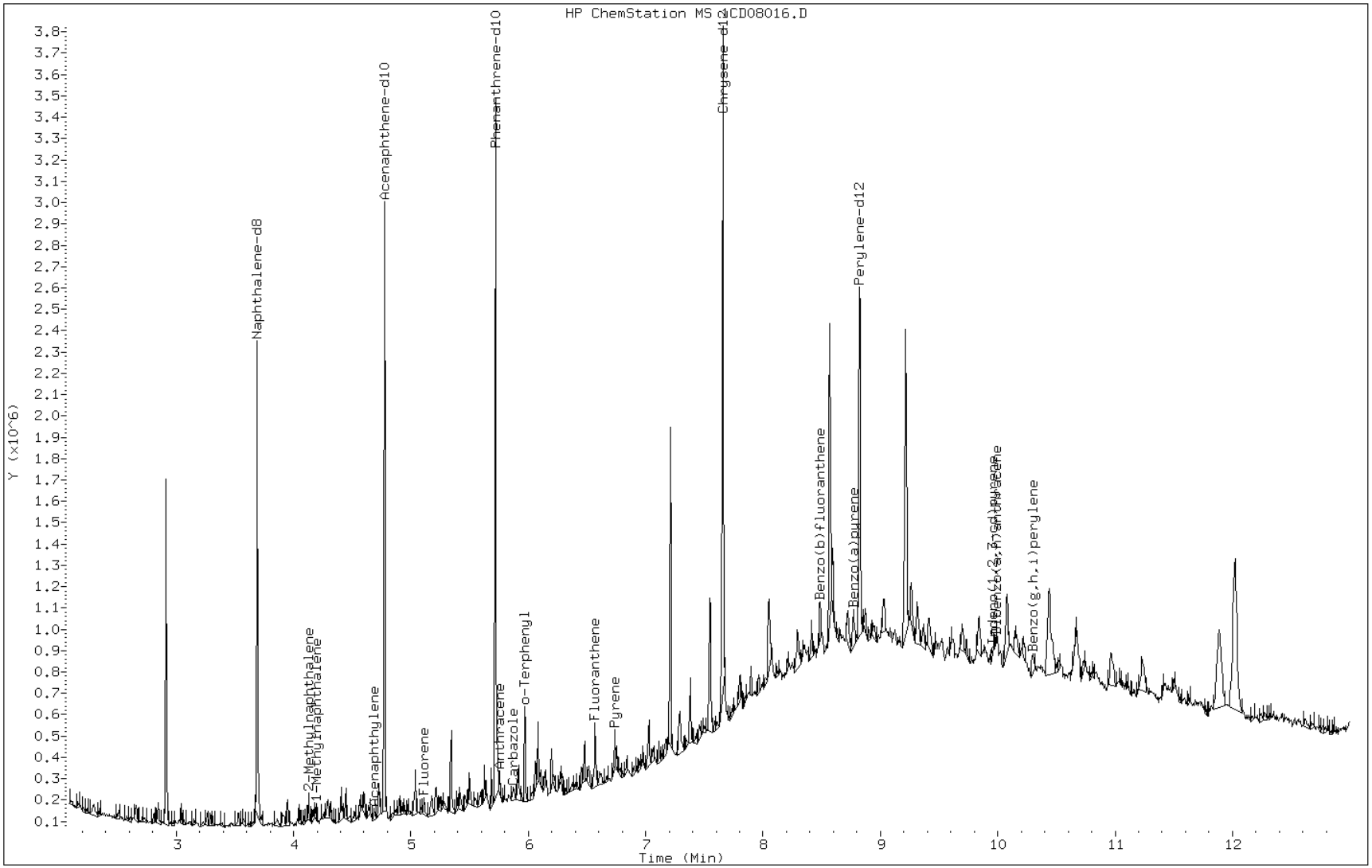
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP



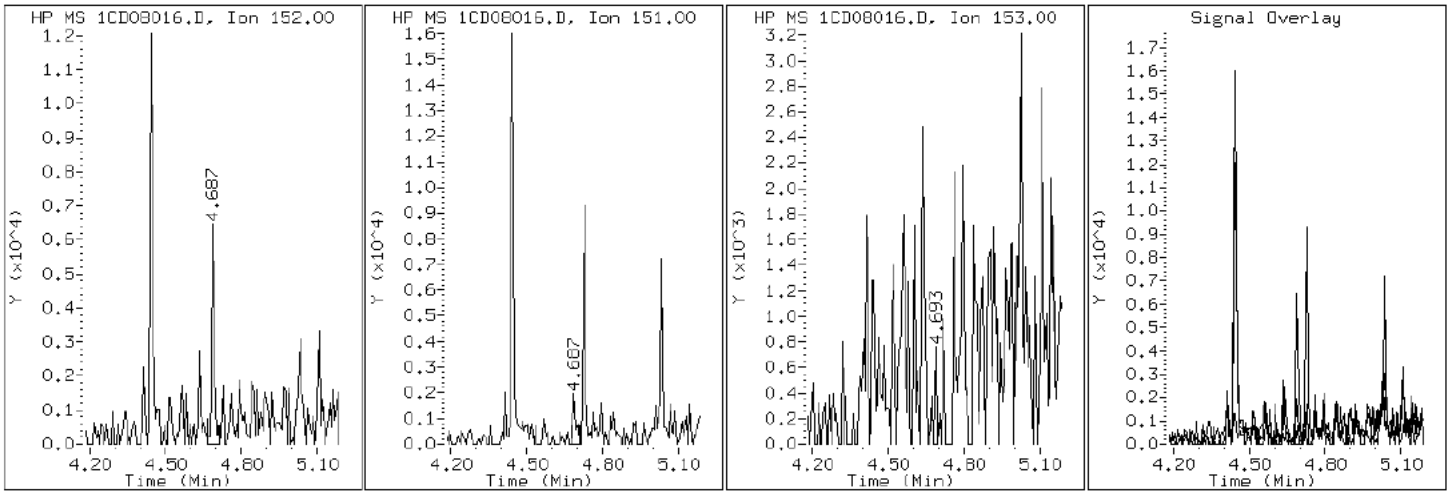
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

5 Acenaphthylene



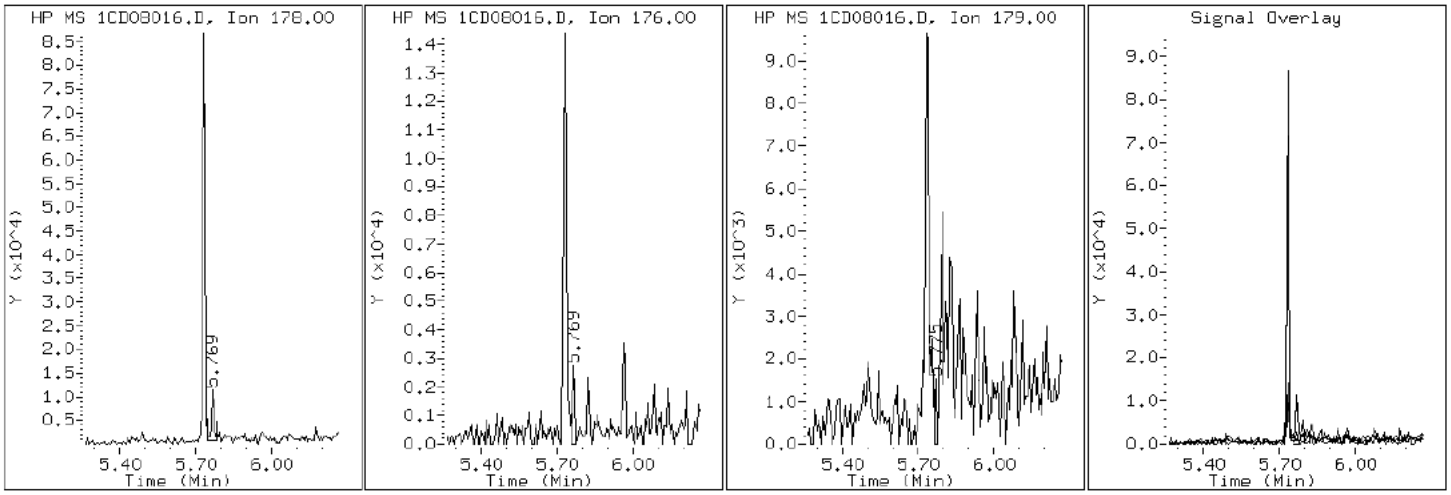
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

12 Anthracene



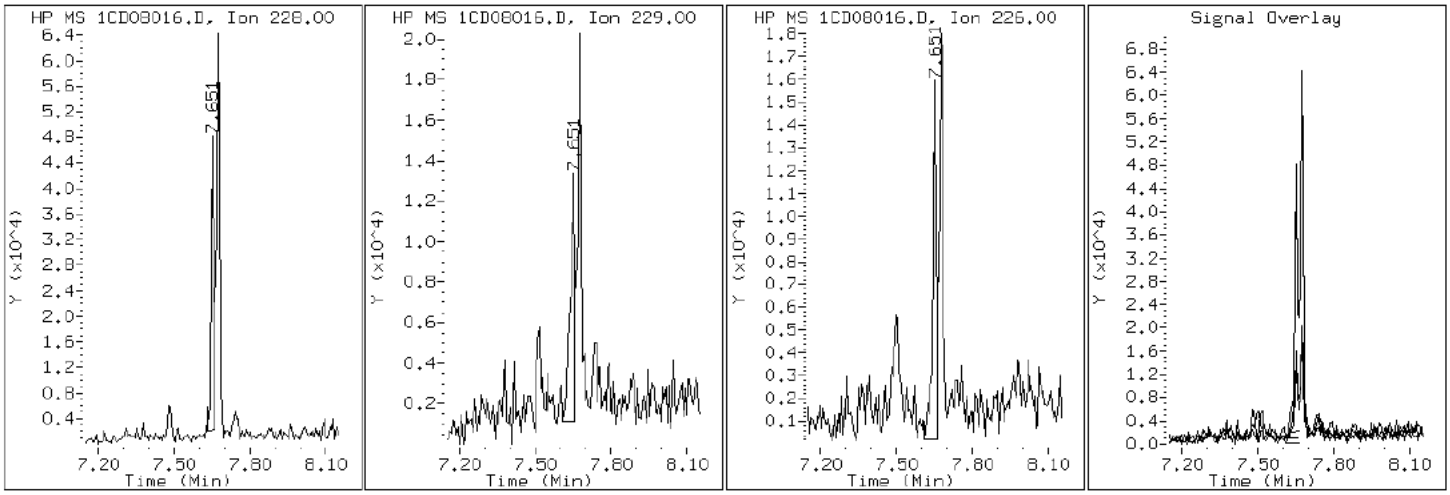
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

17 Benzo(a)anthracene



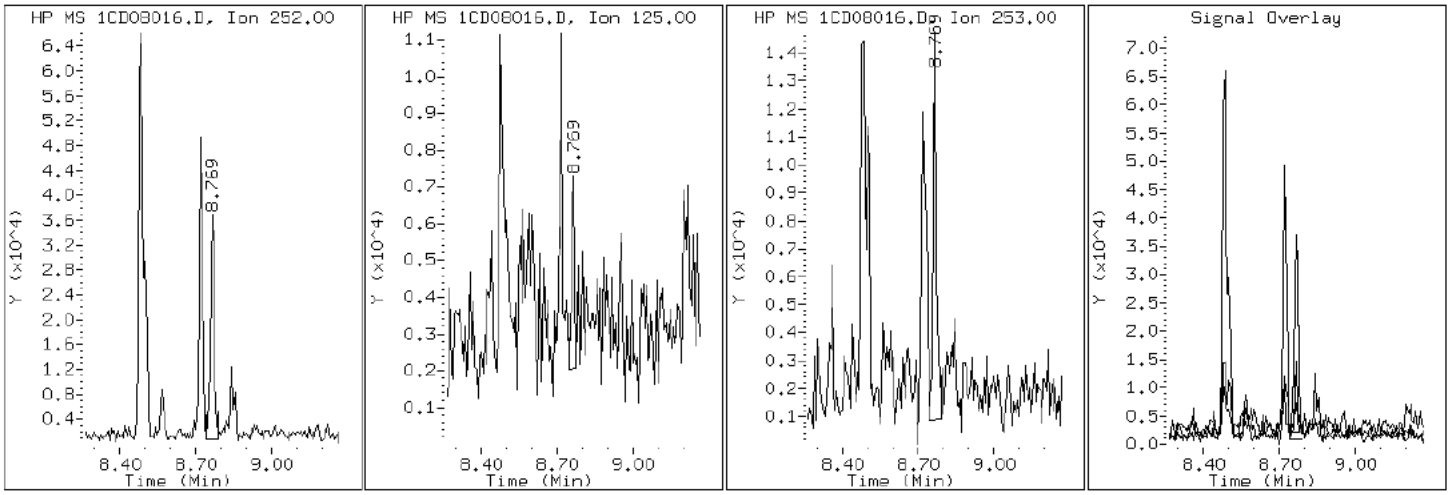
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

22 Benzo(a)pyrene



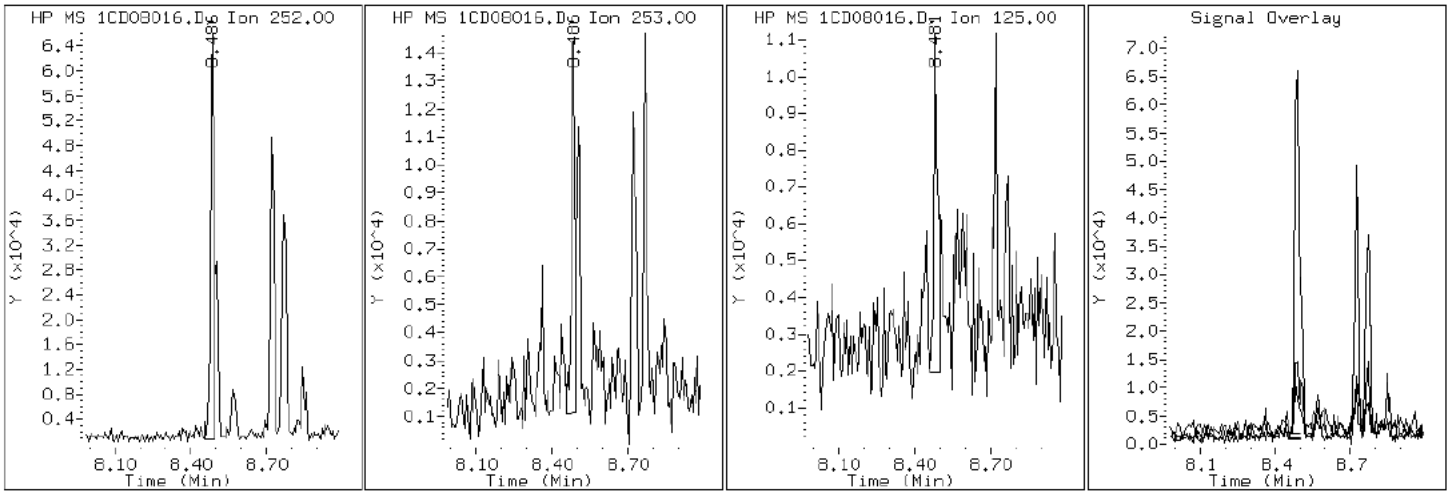
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

20 Benzo(b)fluoranthene



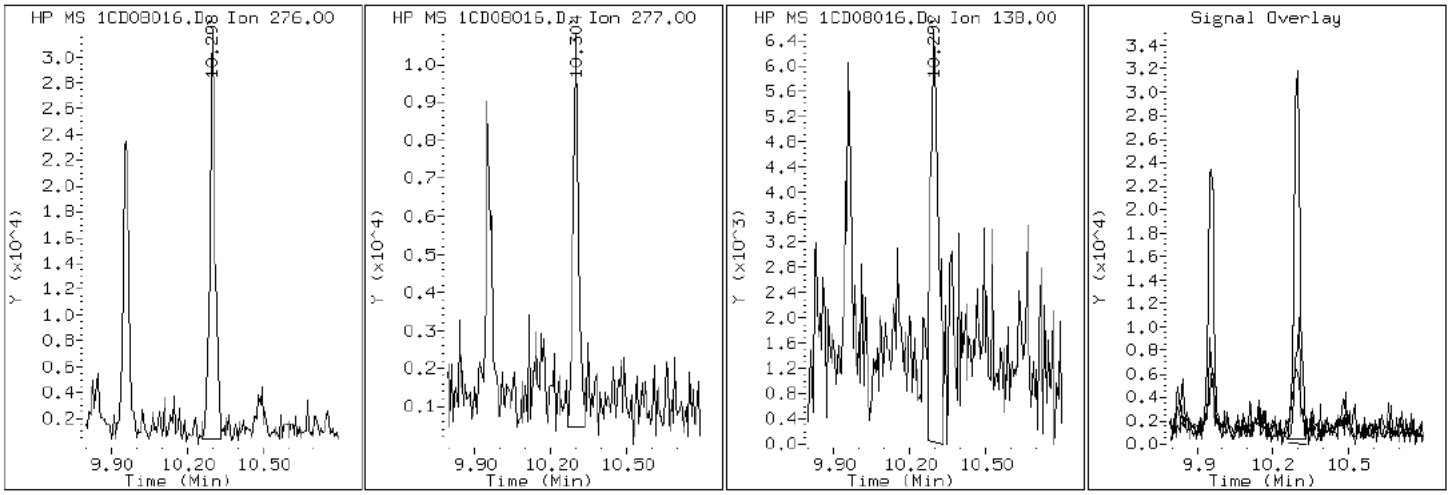
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

26 Benzo(g,h,i)perylene



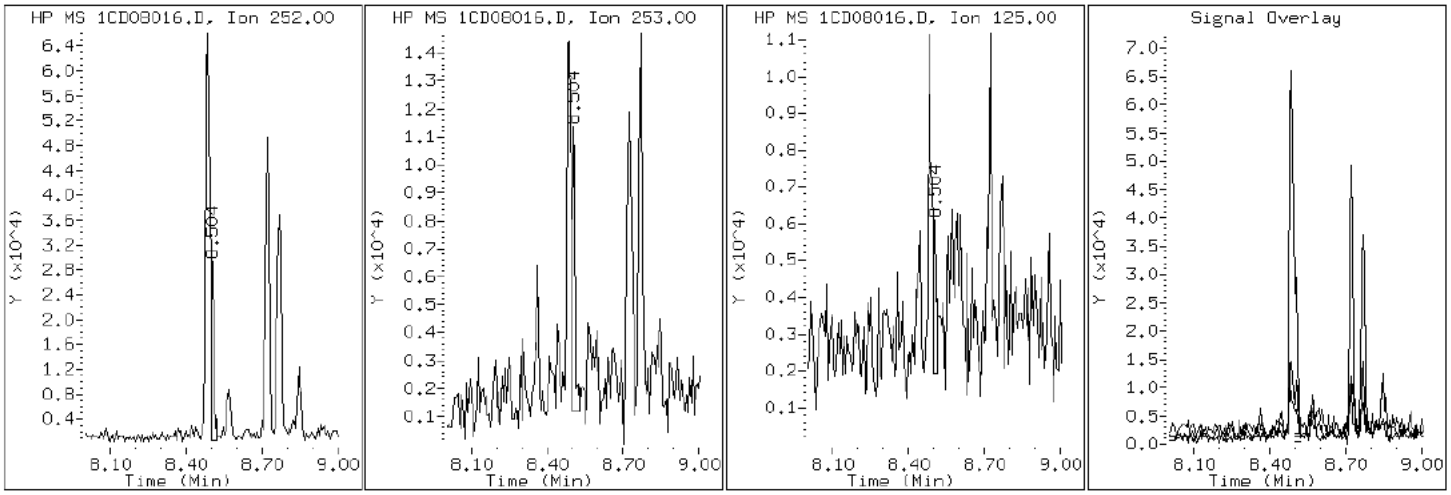
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

21 Benzo(k)fluoranthene



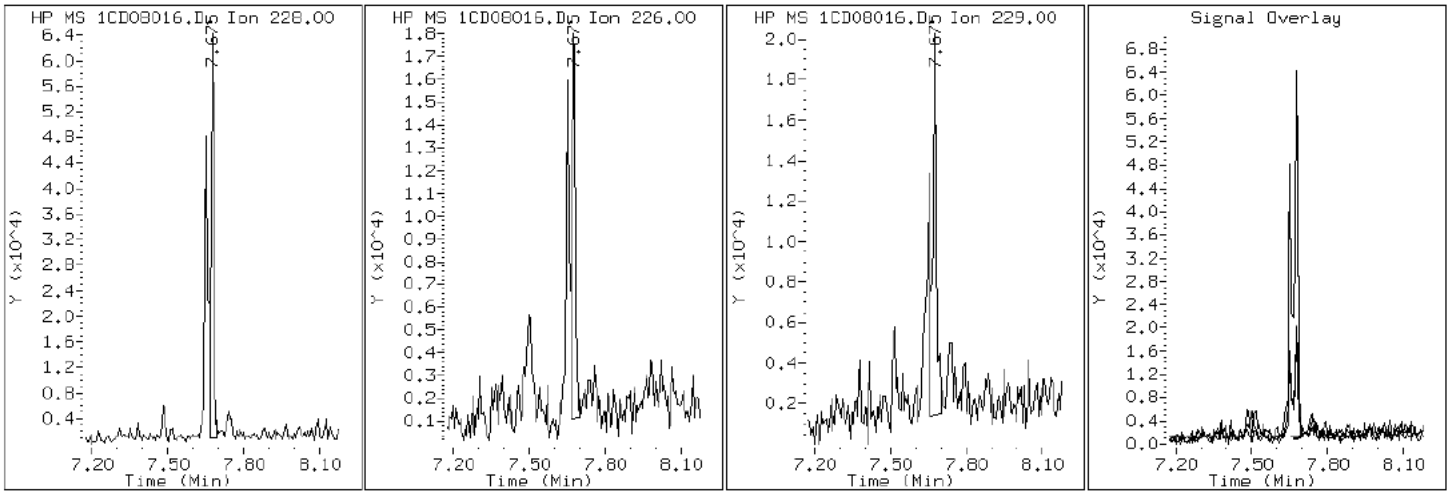
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

19 Chrysene



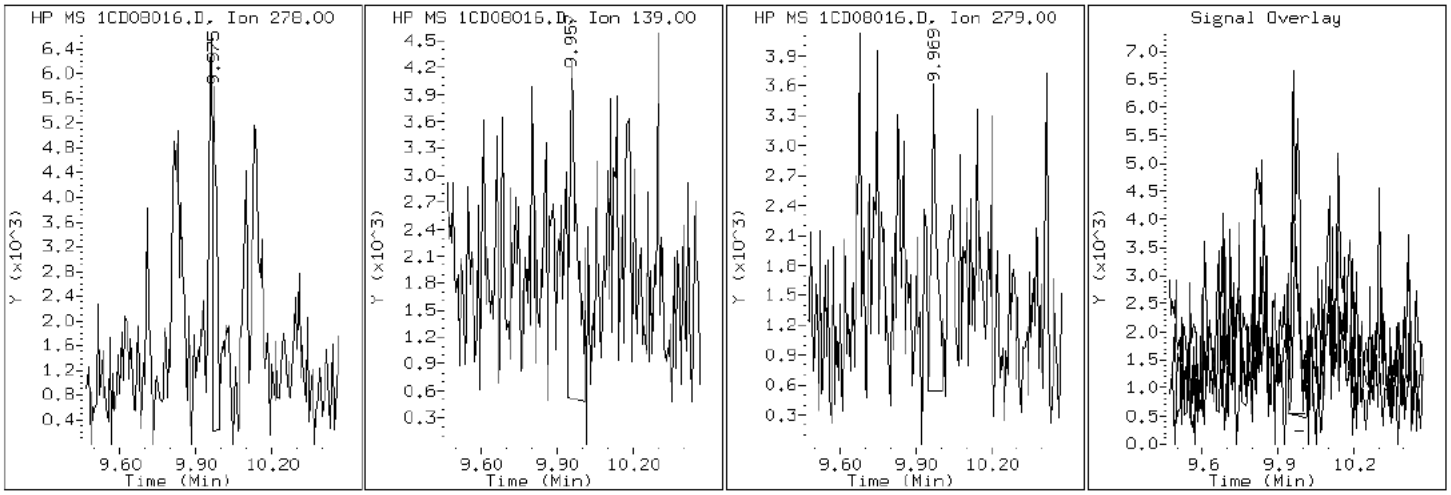
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

25 Dibenzo(a,h)anthracene



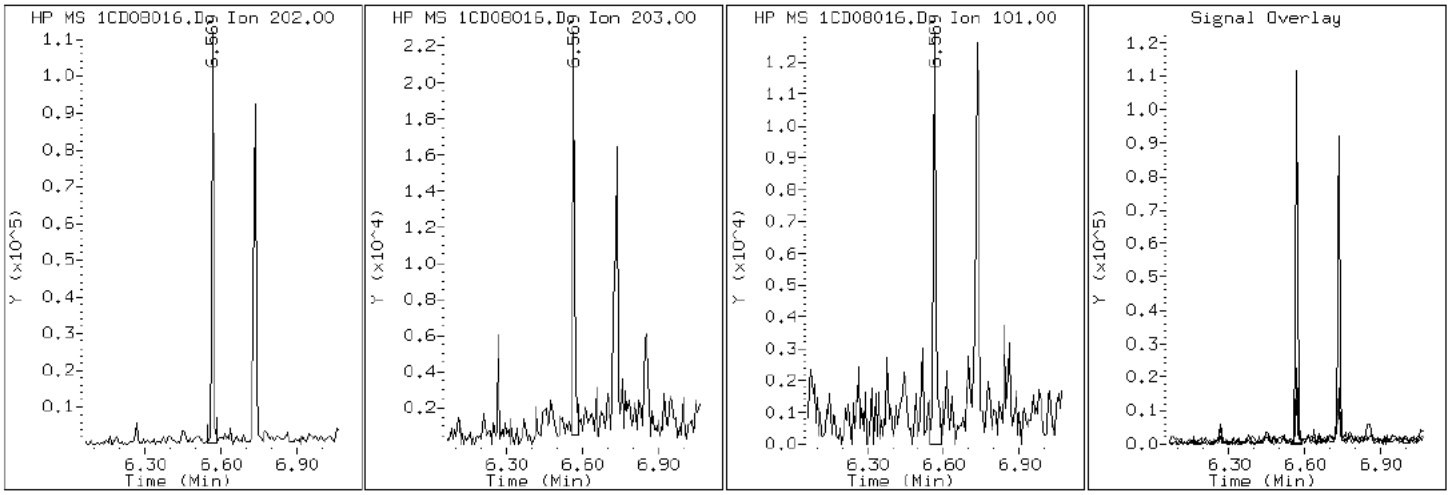
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

15 Fluoranthene



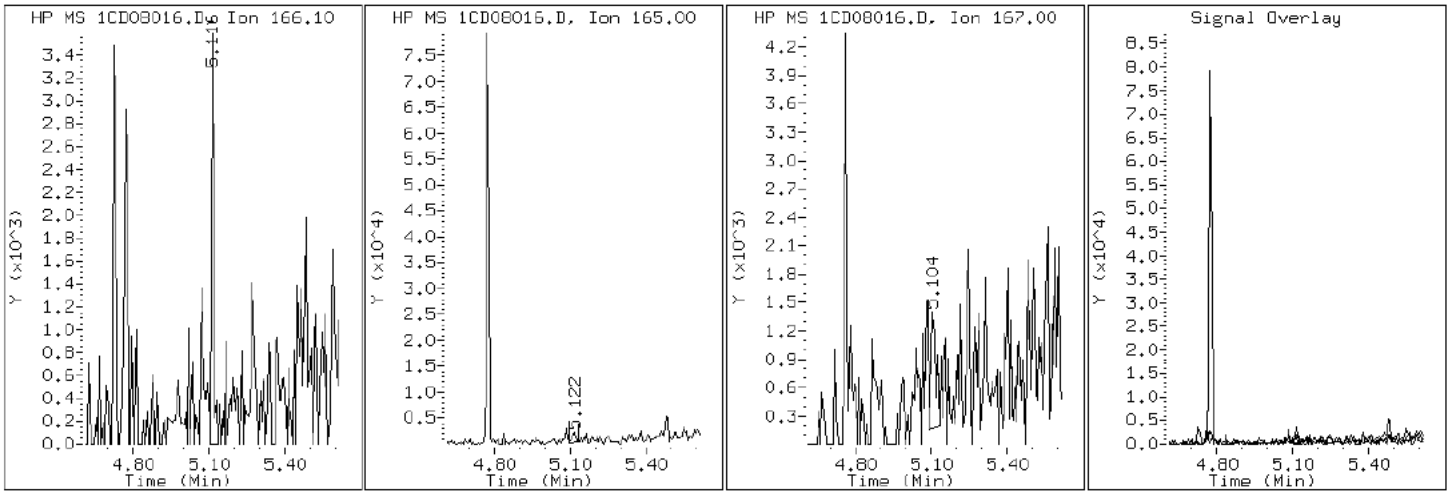
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

9 Fluorene



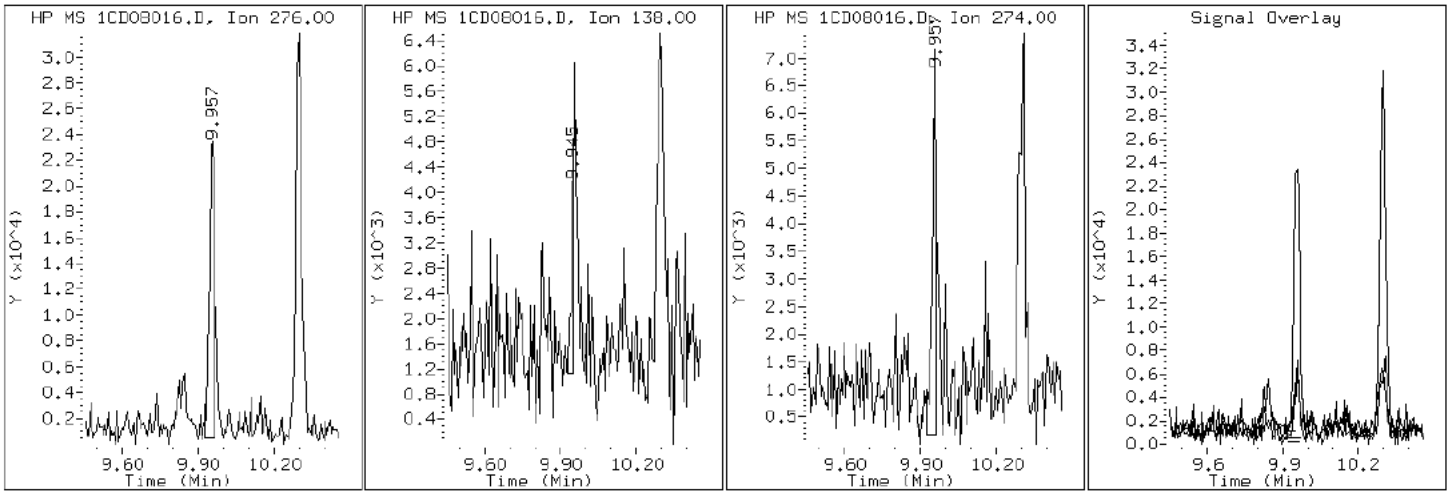
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

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



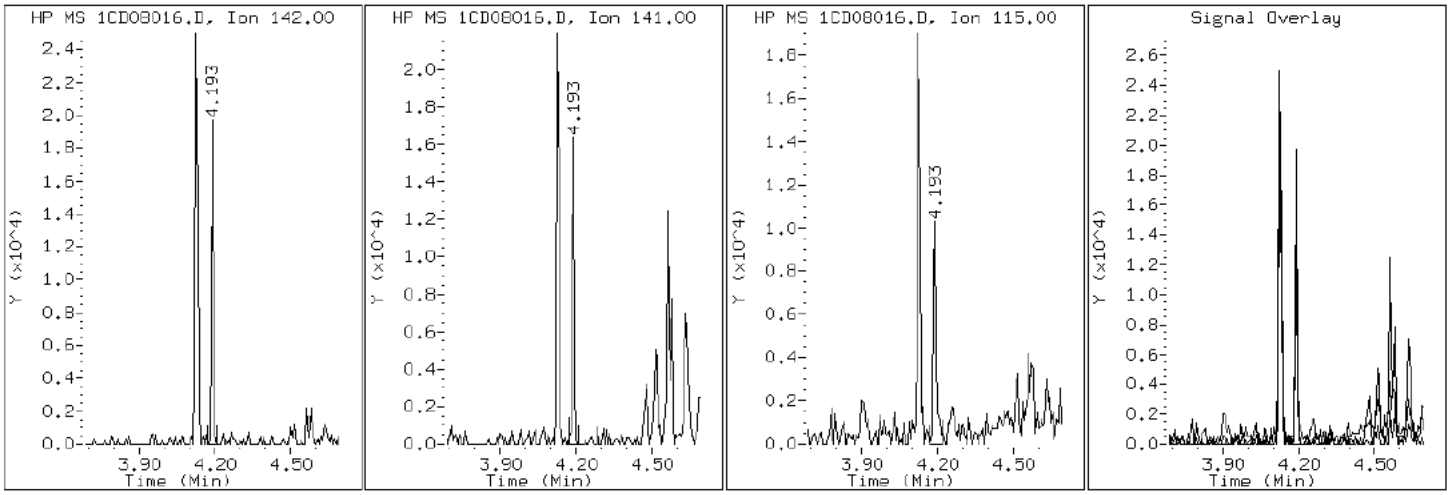
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

4 1-Methylnaphthalene



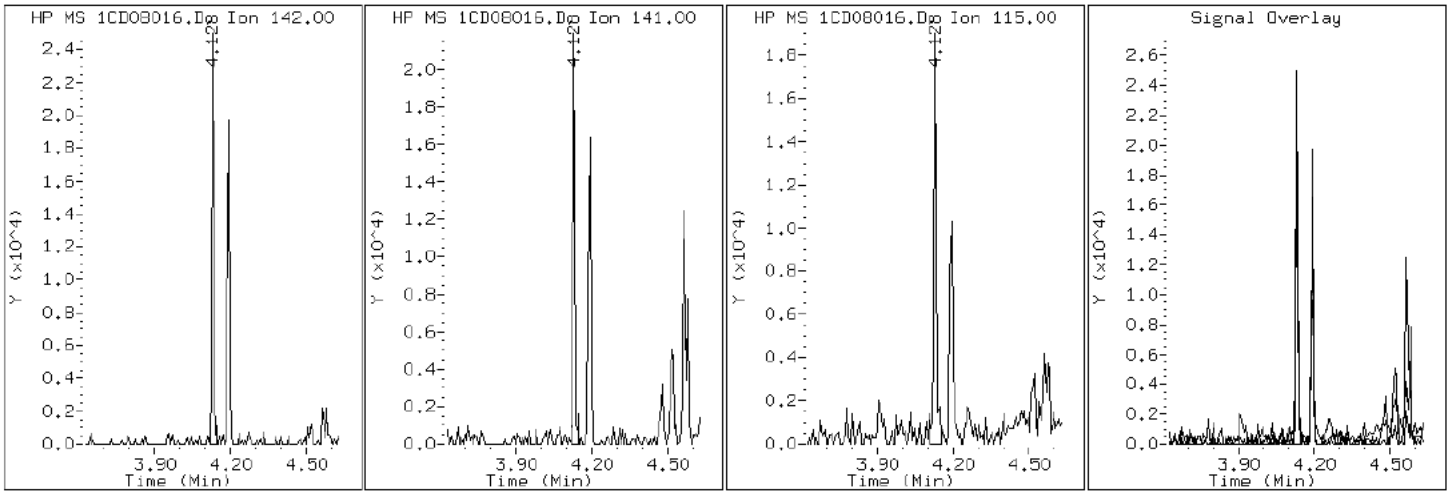
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

3 2-Methylnaphthalene



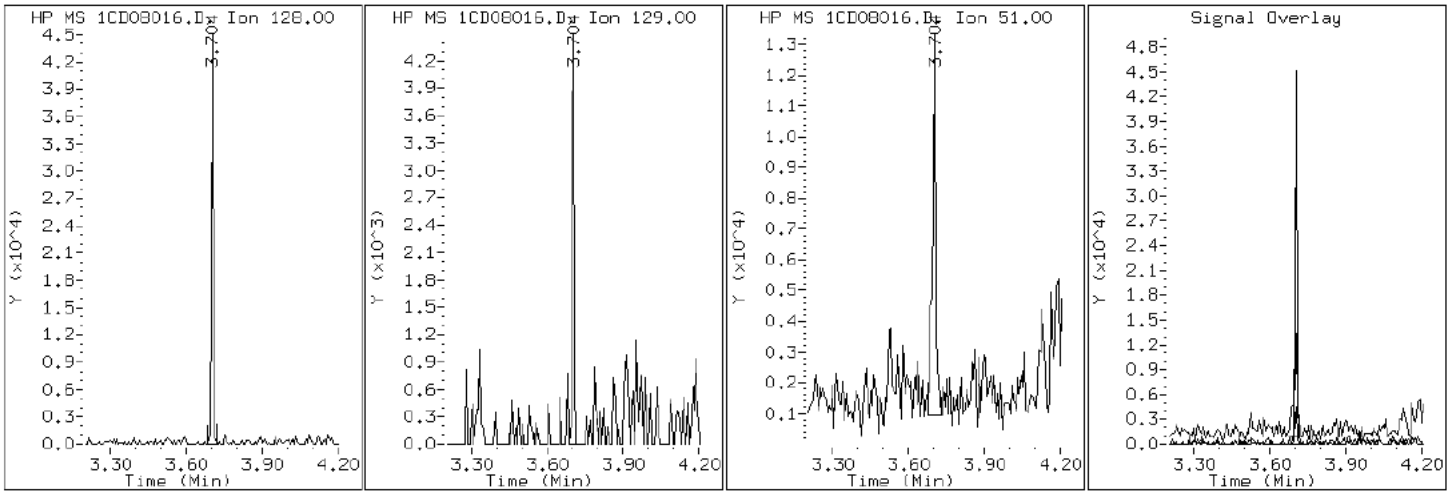
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

2 Naphthalene



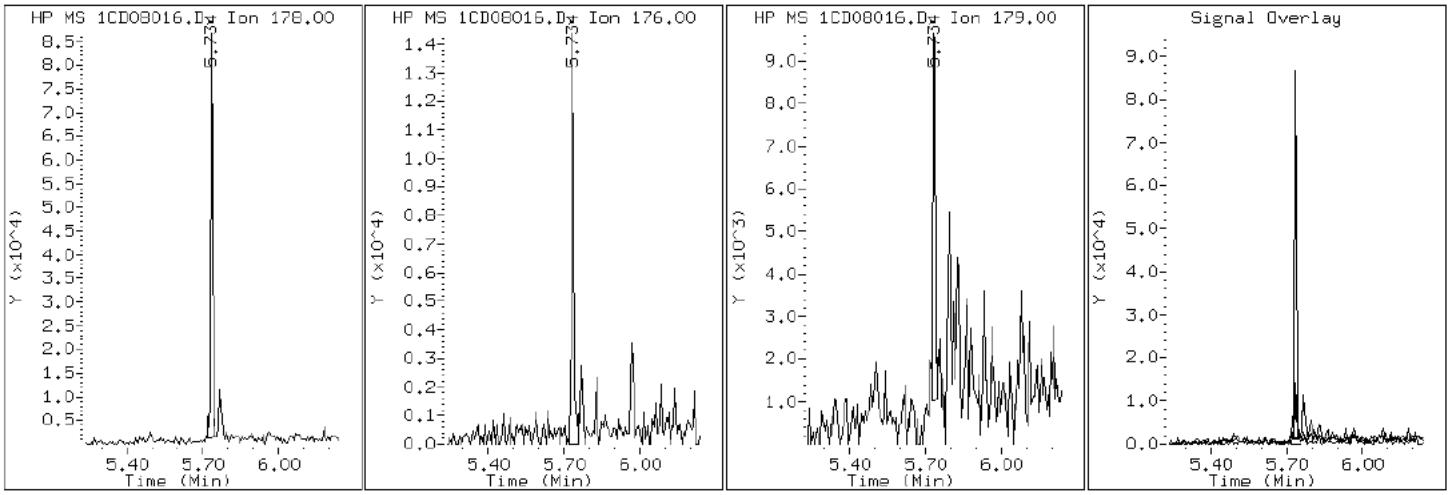
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

11 Phenanthrene



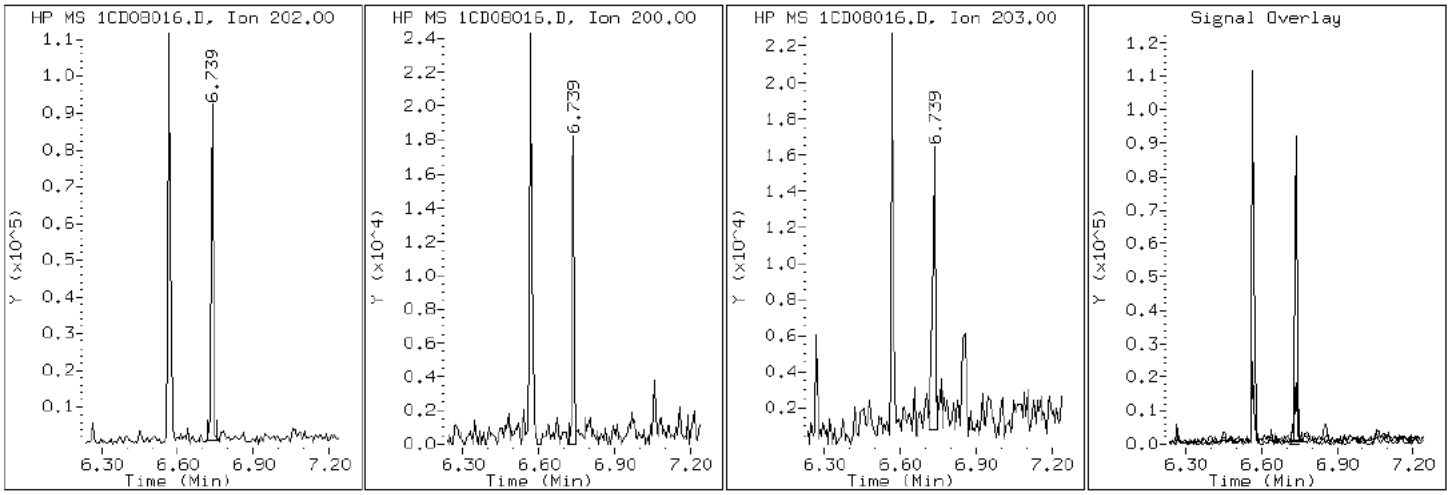
Data File: 1CD08016.D

Date: 08-APR-2013 17:07

Client ID: CV1039B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-24-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08016.D
Inj. Date and Time: 08-APR-2013 17:07
Instrument ID: BSMC5973.i
Client ID: CV1039B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

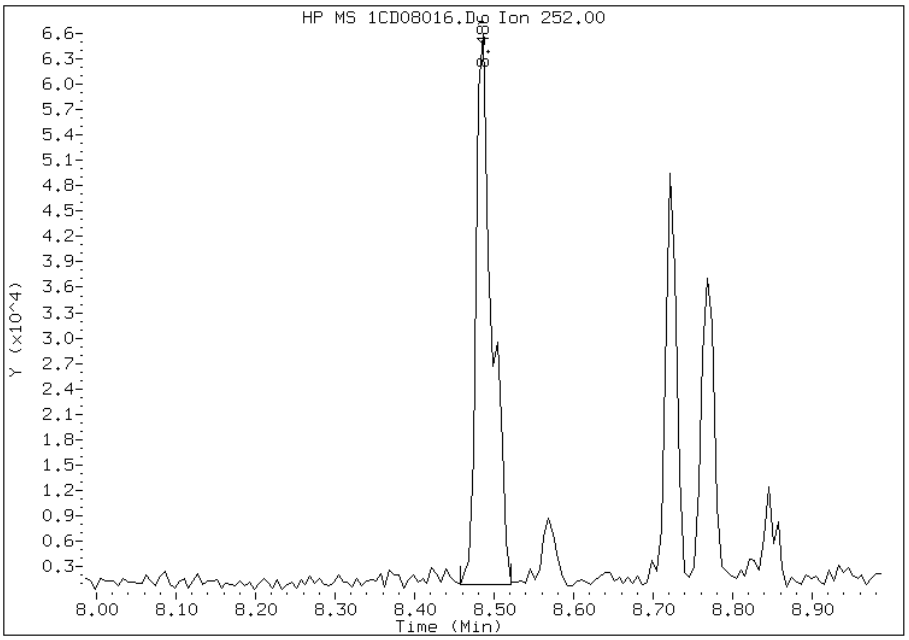
Processing Integration Results

RT: 8.49

Response: 91233

Amount: 5

Conc: 439



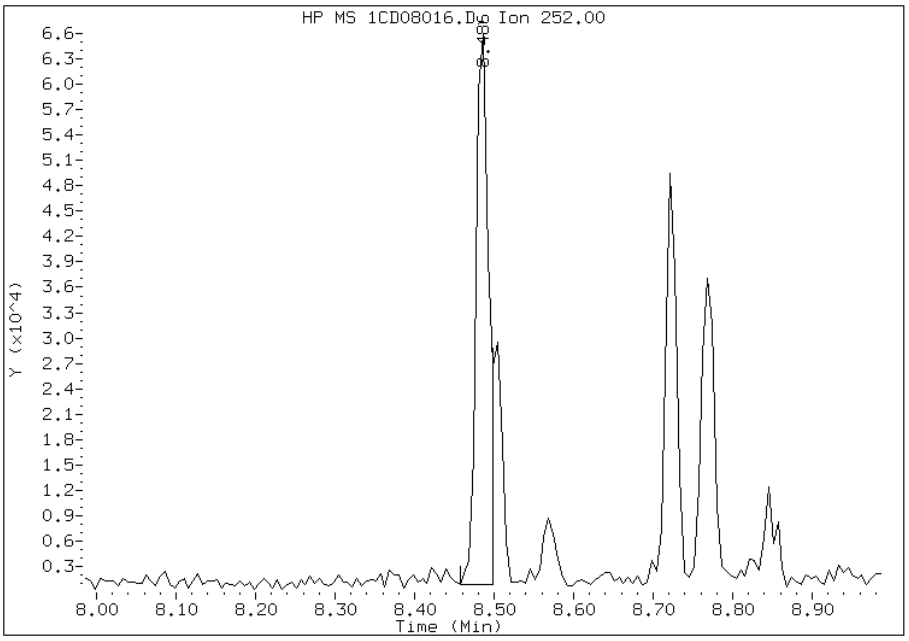
Manual Integration Results

RT: 8.49

Response: 73325

Amount: 4

Conc: 353



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08016.D
Inj. Date and Time: 08-APR-2013 17:07
Instrument ID: BSMC5973.i
Client ID: CV1039B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

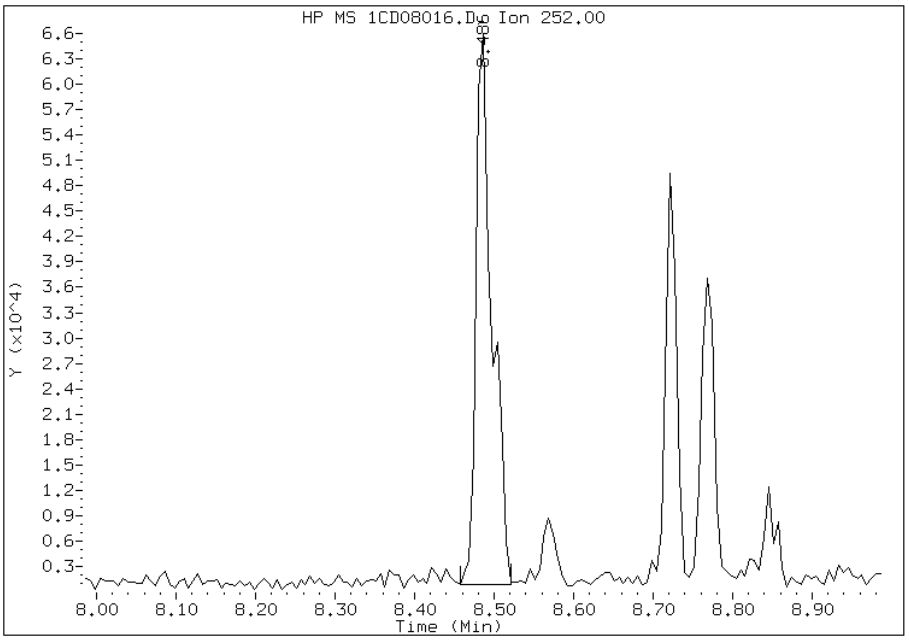
Processing Integration Results

RT: 8.49

Response: 91233

Amount: 6

Conc: 454



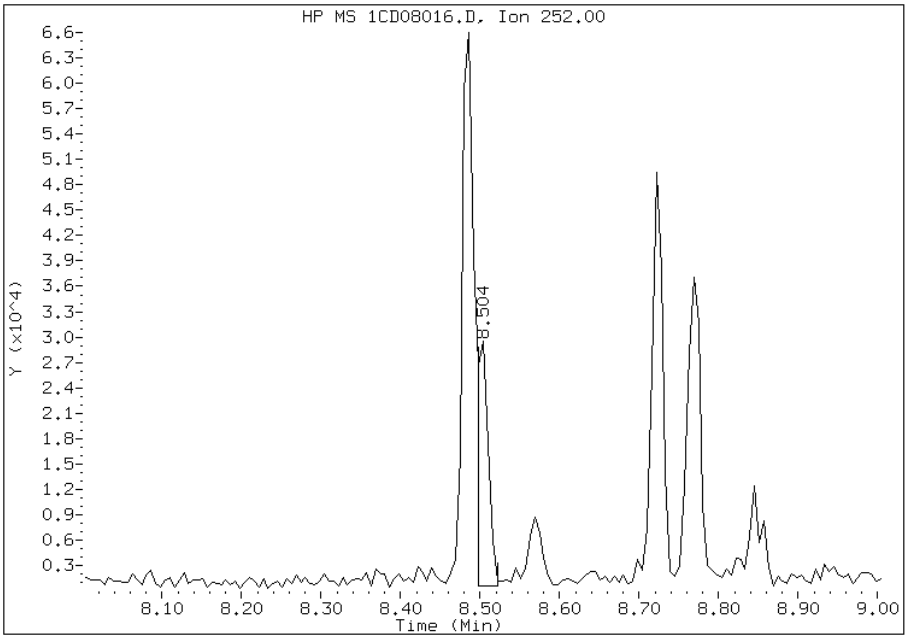
Manual Integration Results

RT: 8.50

Response: 27544

Amount: 2

Conc: 137



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08016.D
Inj. Date and Time: 08-APR-2013 17:07
Instrument ID: BSMC5973.i
Client ID: CV1039B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

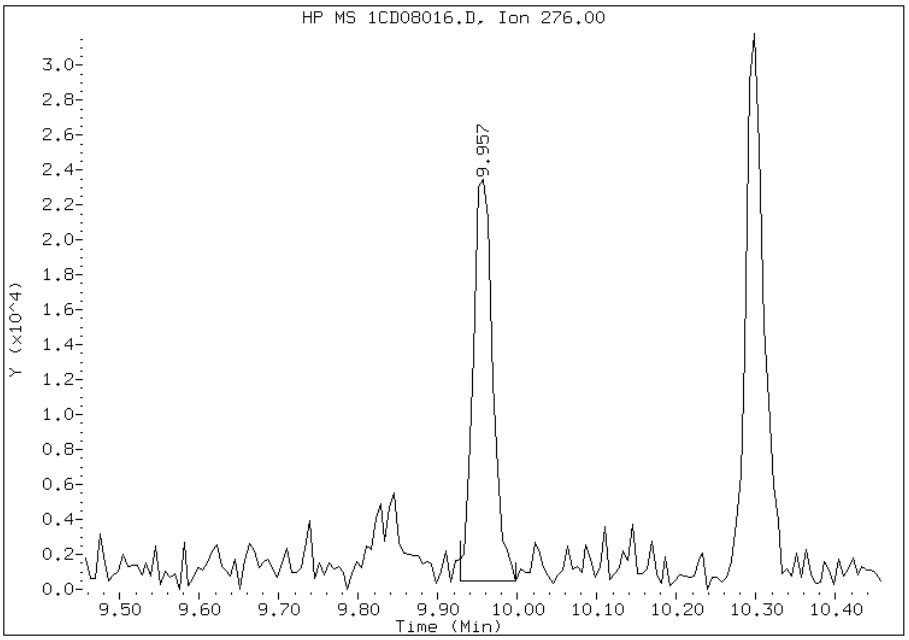
Processing Integration Results

RT: 9.96

Response: 39277

Amount: 3

Conc: 212



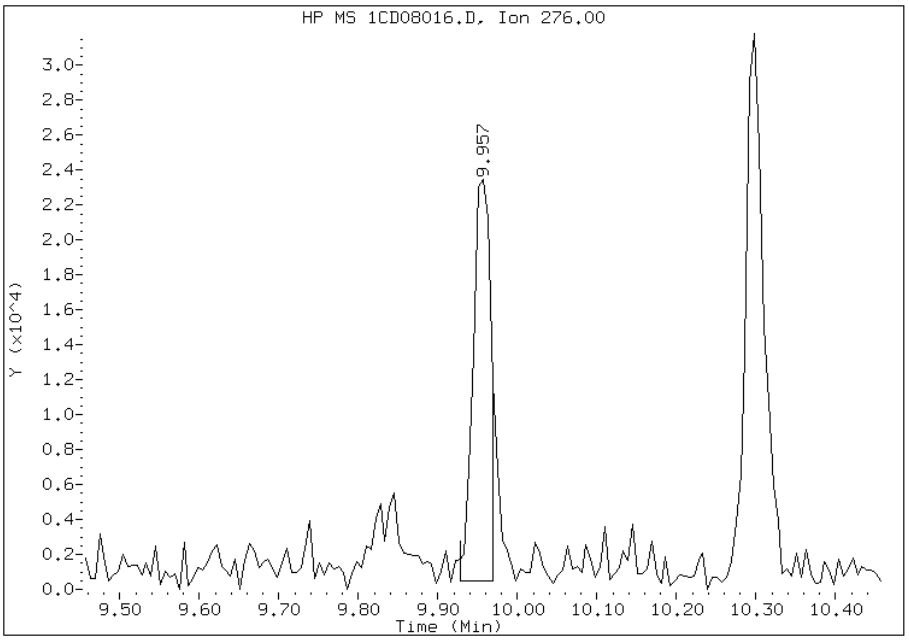
Manual Integration Results

RT: 9.96

Response: 35181

Amount: 2

Conc: 189



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1040A-CS | Lab Sample ID: 680-88811-25

Matrix: Solid | Lab File ID: 1CD08017.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:55

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.00(g) | Date Analyzed: 04/08/2013 17:25

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

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

% Moisture: 29.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	95	J	140	28
208-96-8	Acenaphthylene	64		56	7.0
120-12-7	Anthracene	250		12	5.9
56-55-3	Benzo[a]anthracene	910		11	5.5
50-32-8	Benzo[a]pyrene	790		15	7.3
205-99-2	Benzo[b]fluoranthene	1300		17	8.6
191-24-2	Benzo[g,h,i]perylene	600		28	6.2
207-08-9	Benzo[k]fluoranthene	610		11	5.1
218-01-9	Chrysene	980		13	6.3
53-70-3	Dibenz(a,h)anthracene	190		28	5.8
206-44-0	Fluoranthene	1800		28	5.6
86-73-7	Fluorene	110		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	560		28	10
90-12-0	1-Methylnaphthalene	240		56	6.2
91-57-6	2-Methylnaphthalene	230		56	10
91-20-3	Naphthalene	210		56	6.2
85-01-8	Phenanthrene	1200		11	5.5
129-00-0	Pyrene	1500		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08017.D
Lab Smp Id: 680-88811-A-25-A Client Smp ID: CV1040A-CS
Inj Date : 08-APR-2013 17:25
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-25-A
Misc Info : 680-88811-A-25-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.000	Weight Extracted
M	29.064	% 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	3.692	3.692	(1.000)	444701	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	329140	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	598961	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	59106	6.77111	636.3591
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	662283	40.0000	
*	23 Perylene-d12	264	8.821	8.821	(1.000)	619452	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	25305	2.21545	208.2114
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	19215	2.47133	232.2590
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	17889	2.55698	240.3089
	5 Acenaphthylene	152	4.692	4.686	(0.983)	9272	0.68065	63.9683
	7 Acenaphthene	154	4.798	4.798	(1.005)	8528	1.01076	94.9926
	9 Fluorene	166	5.115	5.115	(1.071)	13745	1.22203	114.8484
	11 Phenanthrene	178	5.739	5.739	(1.003)	215176	12.3349	1159.2495
	12 Anthracene	178	5.768	5.768	(1.008)	47388	2.67977	251.8484

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	33048	2.18133	205.0049
15 Fluoranthene	202	6.568	6.568	(1.148)	360038	18.6884	1756.3665
16 Pyrene	202	6.739	6.739	(0.880)	285183	15.5449	1460.9335
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	182277	9.63437	905.4522
19 Chrysene	228	7.674	7.674	(1.002)	196317	10.4025	977.6385
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	238357	13.6107	1279.1566(M)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	109562	6.46854	607.9227(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	139015	8.43151	792.4061
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	93784	5.98874	562.8310(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.131)	29672	2.05113	192.7680
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	102519	6.41427	602.8230

QC Flag Legend

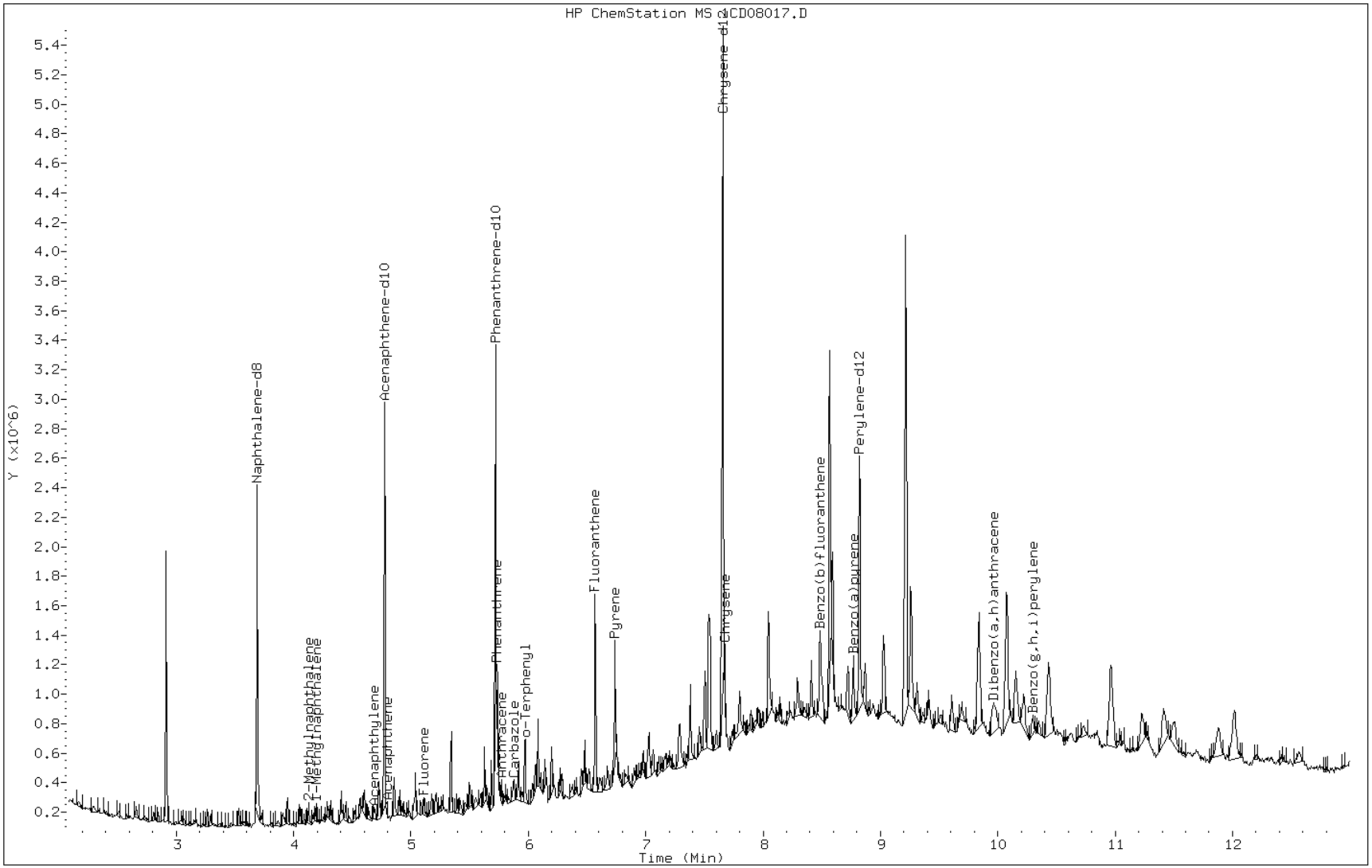
M - Compound response manually integrated.

Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP



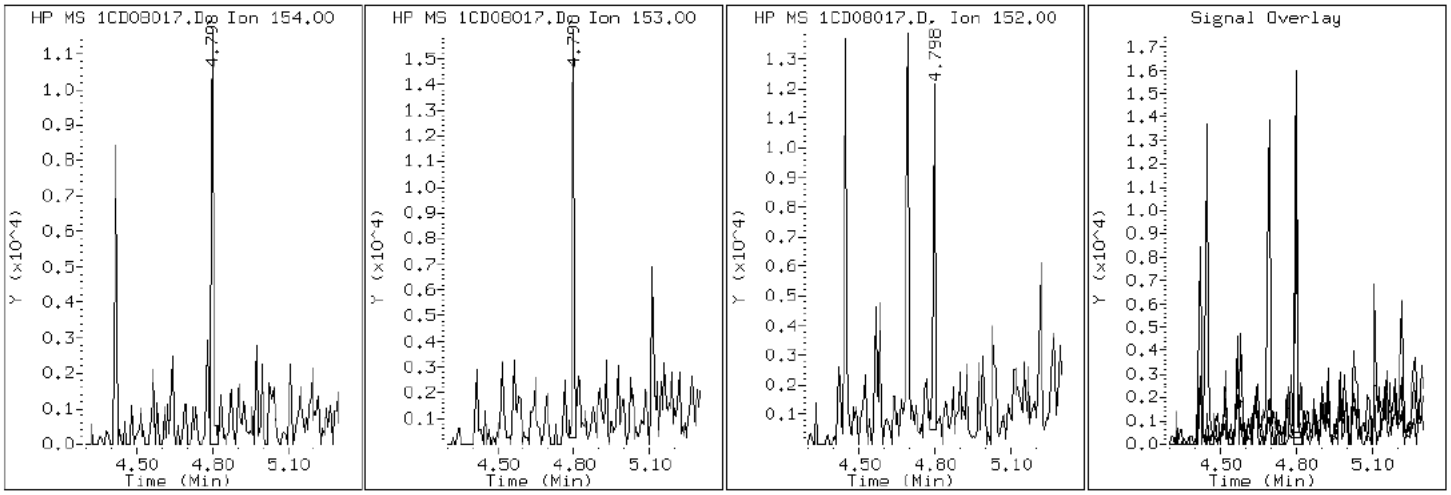
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

7 Acenaphthene



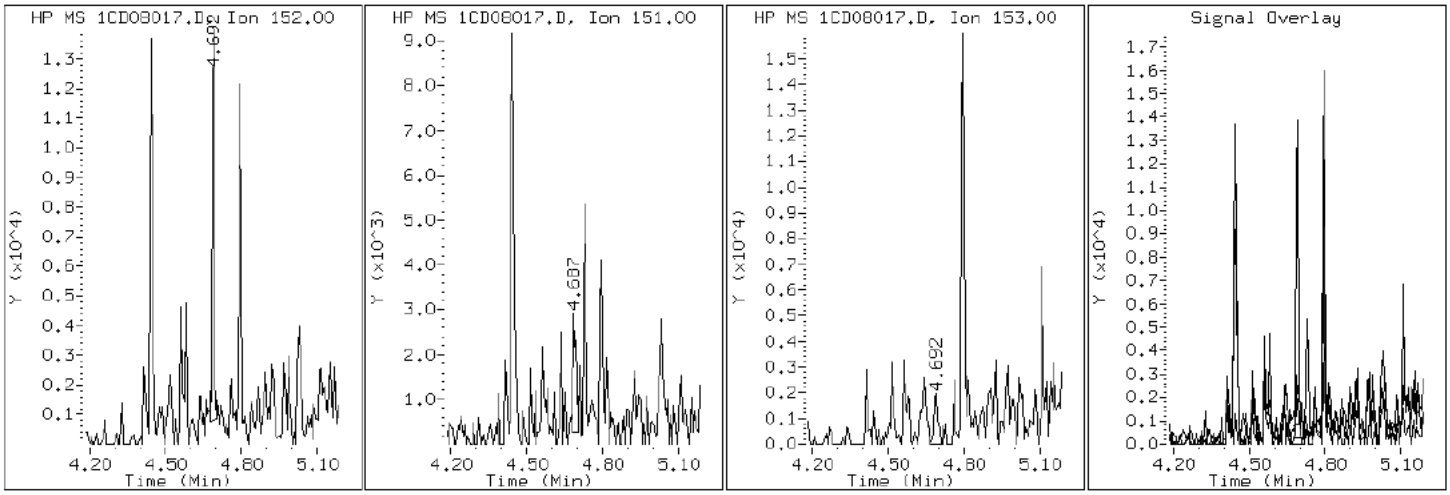
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

5 Acenaphthylene



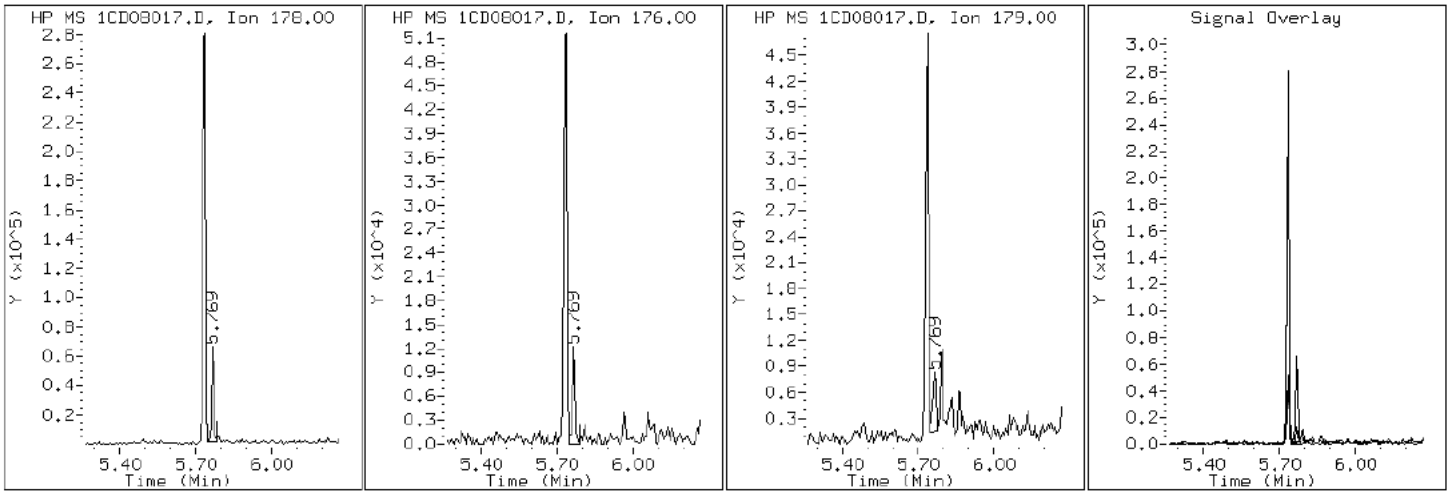
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

12 Anthracene



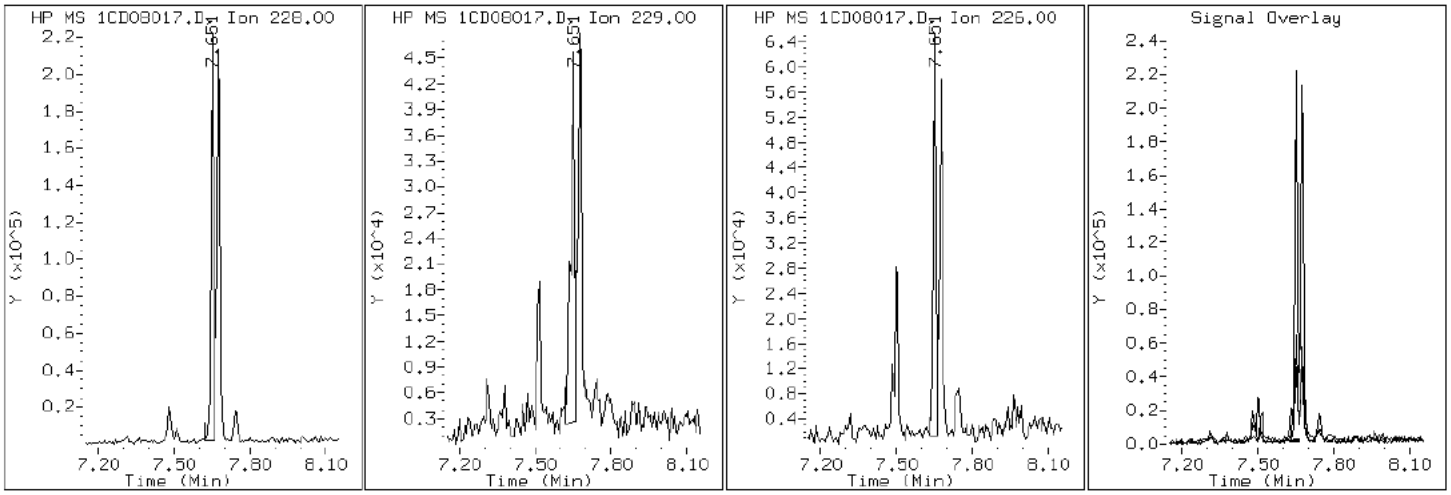
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

17 Benzo(a)anthracene



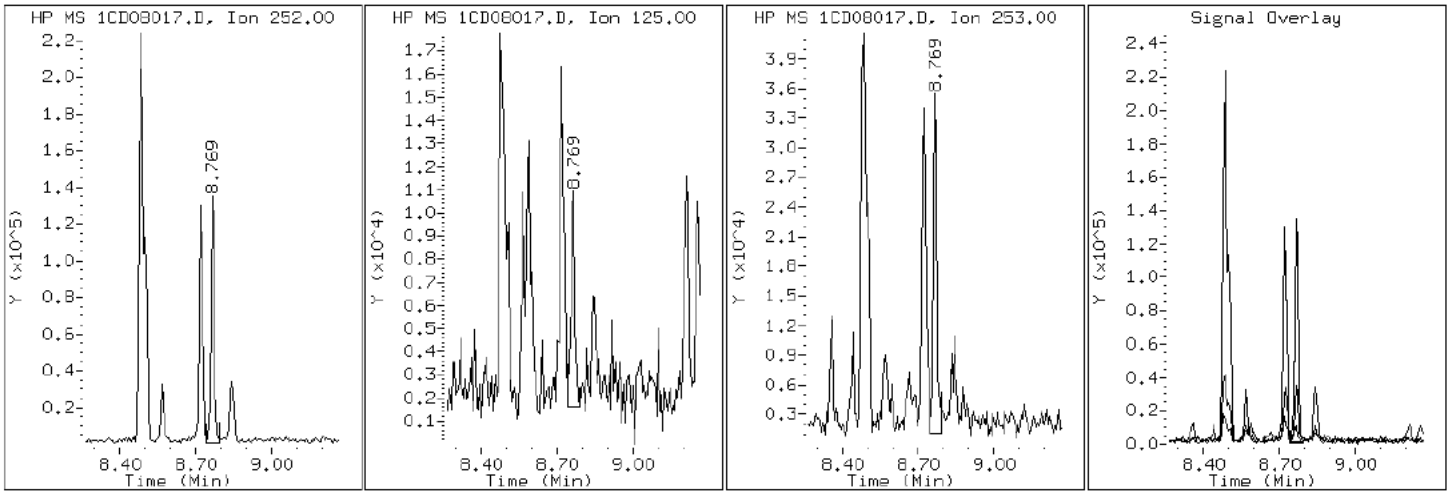
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

22 Benzo(a)pyrene



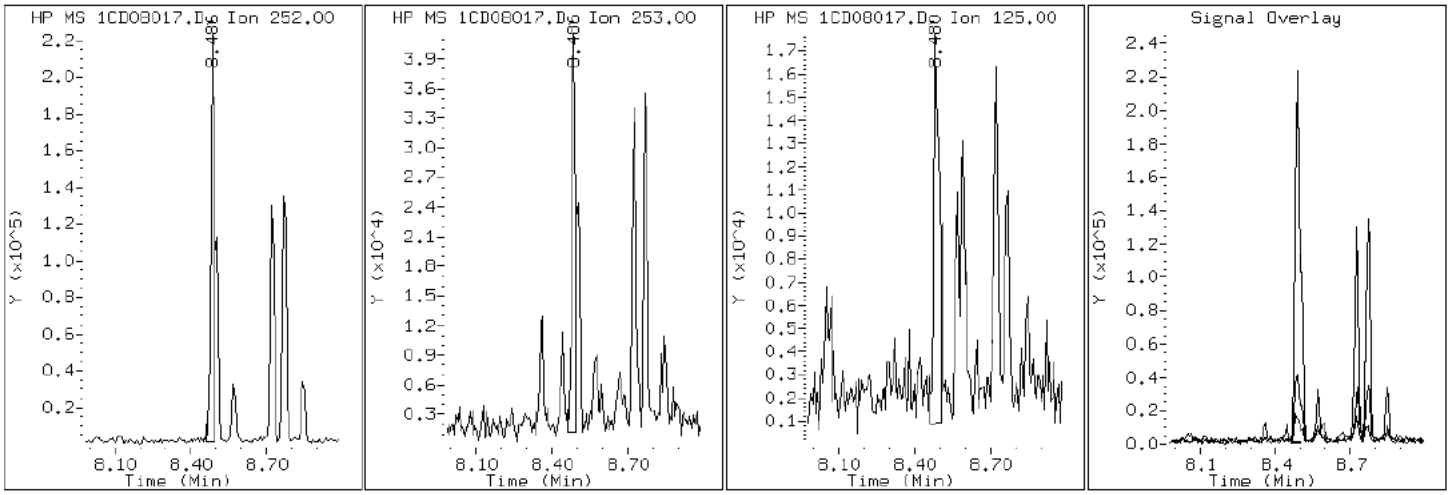
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

20 Benzo(b)fluoranthene



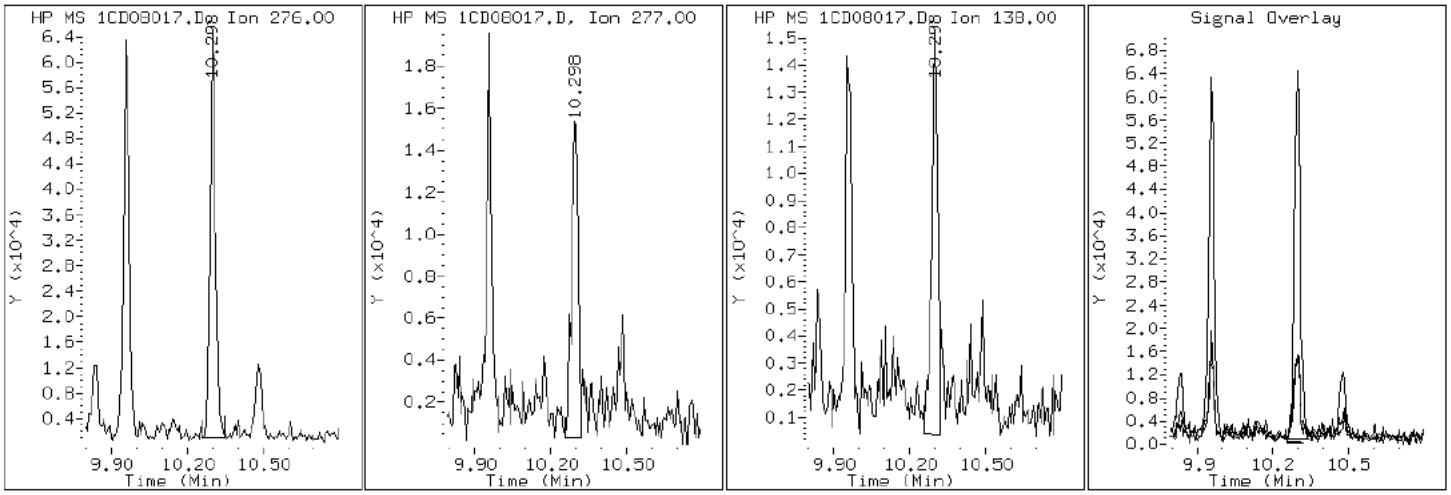
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

26 Benzo(g,h,i)perylene



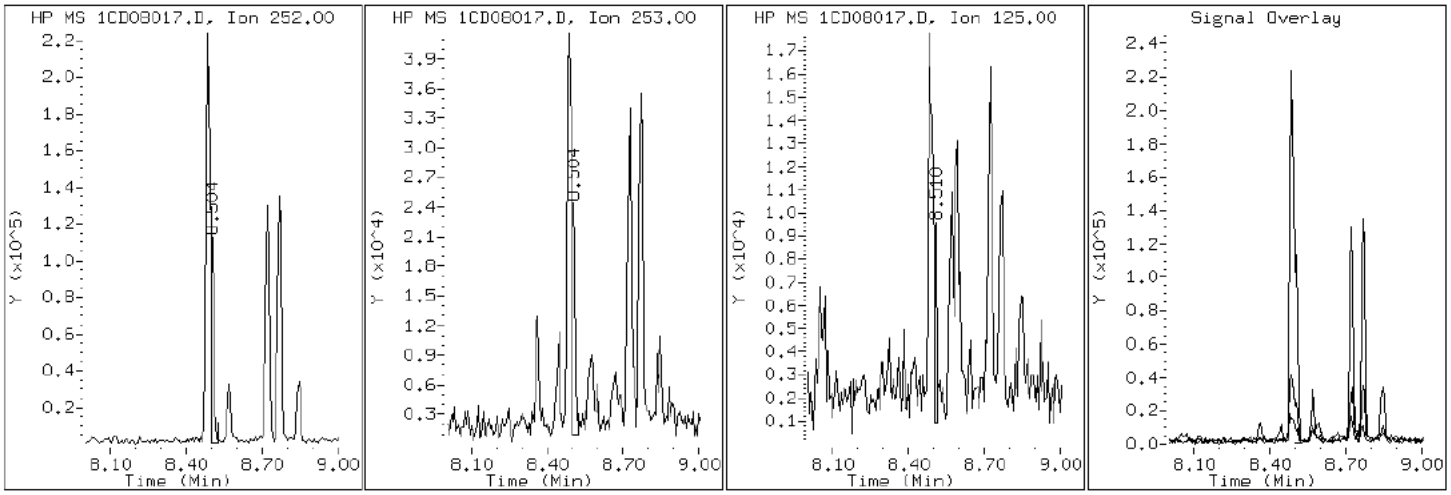
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

21 Benzo(k)fluoranthene



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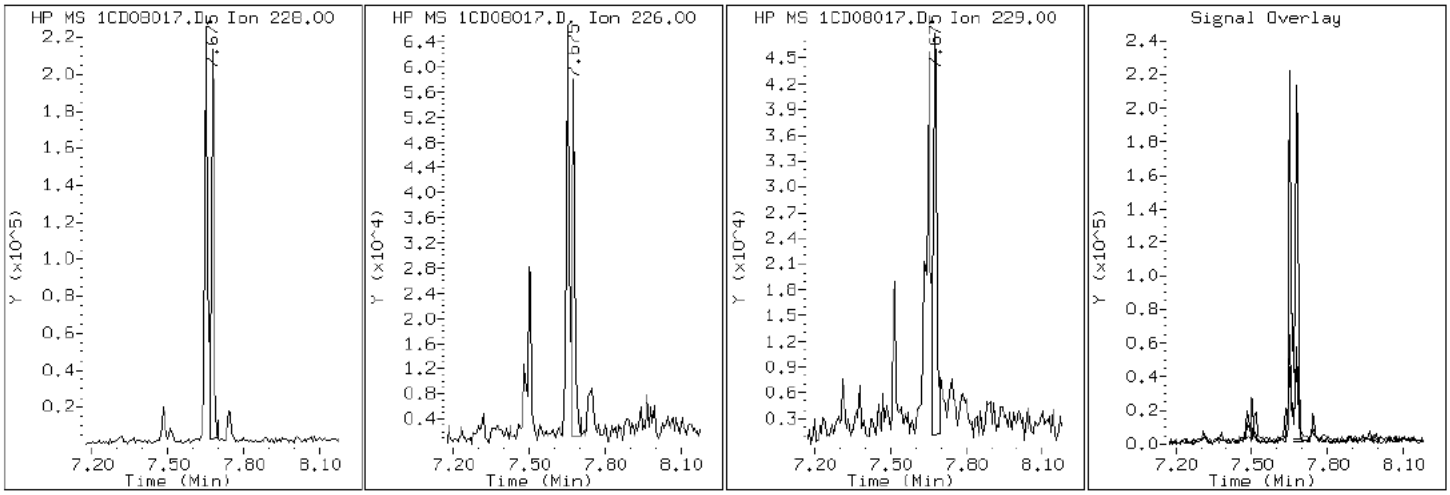
Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

19 Chrysene



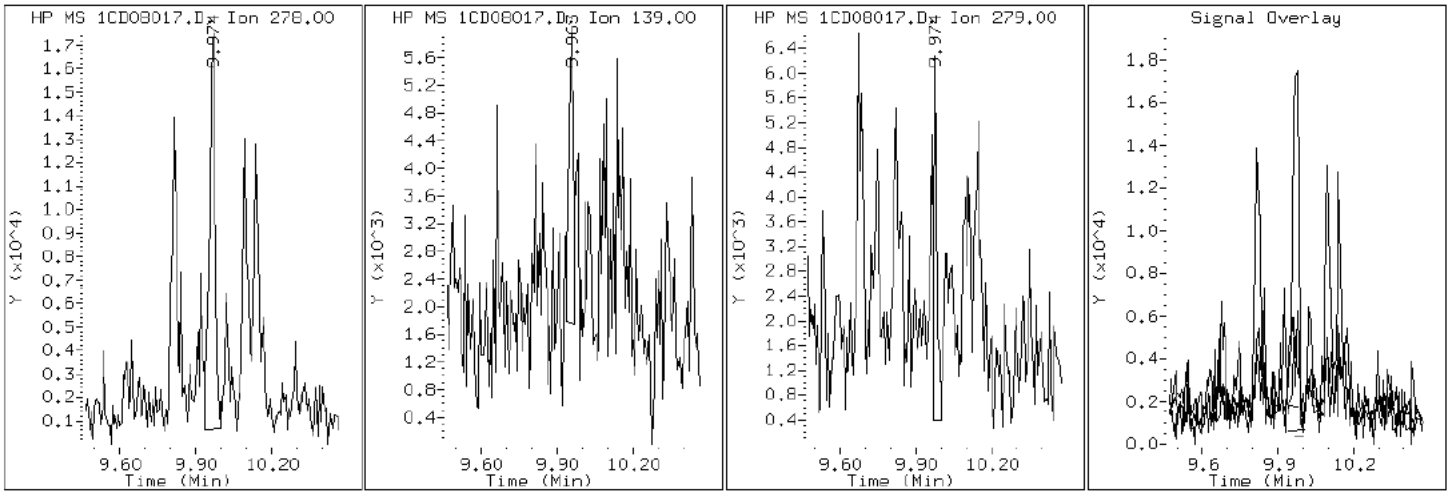
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

25 Dibenzo(a,h)anthracene



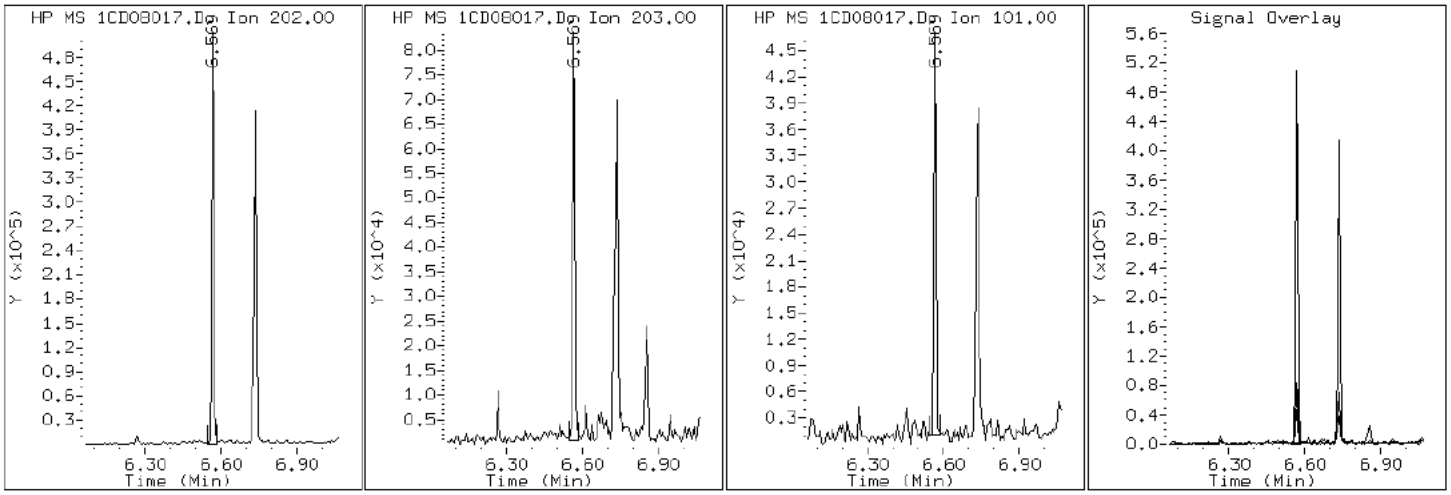
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

15 Fluoranthene



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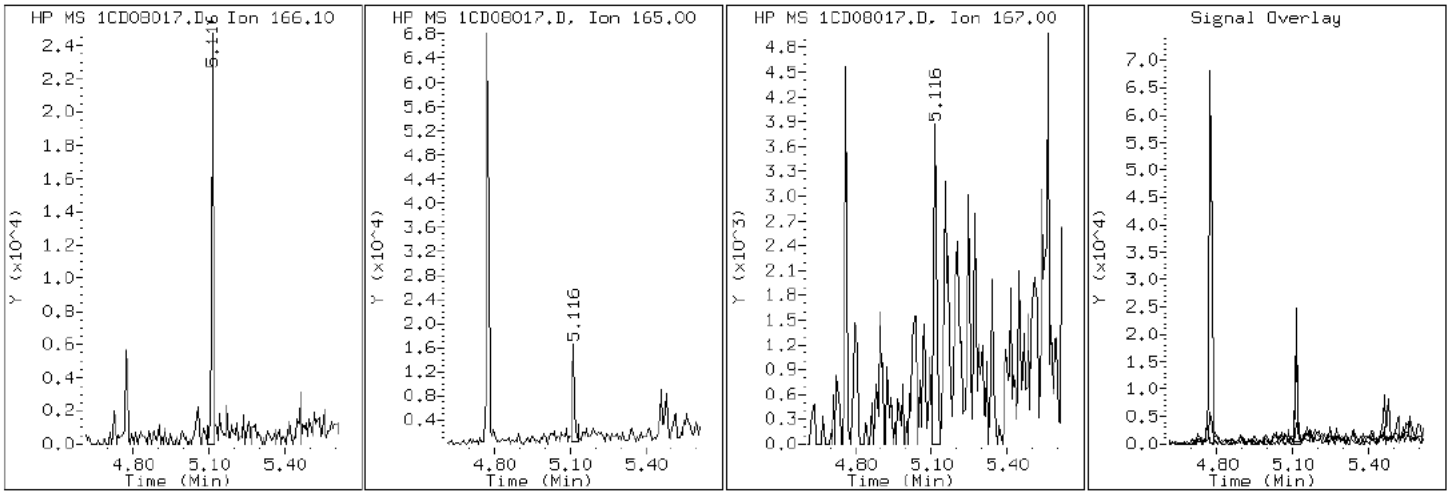
Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

9 Fluorene



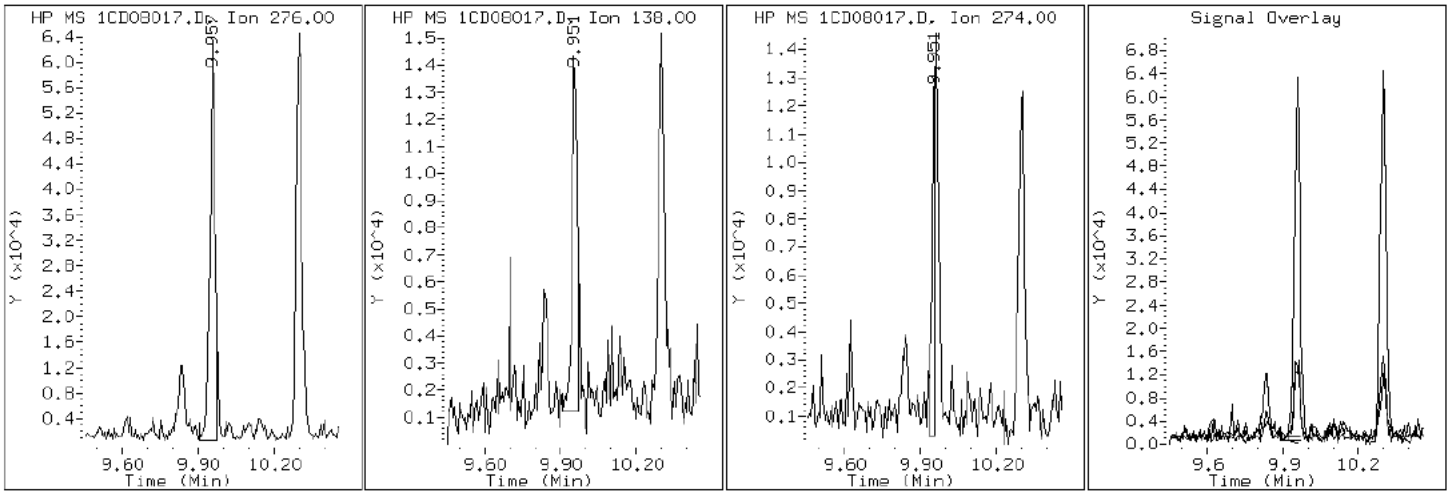
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

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



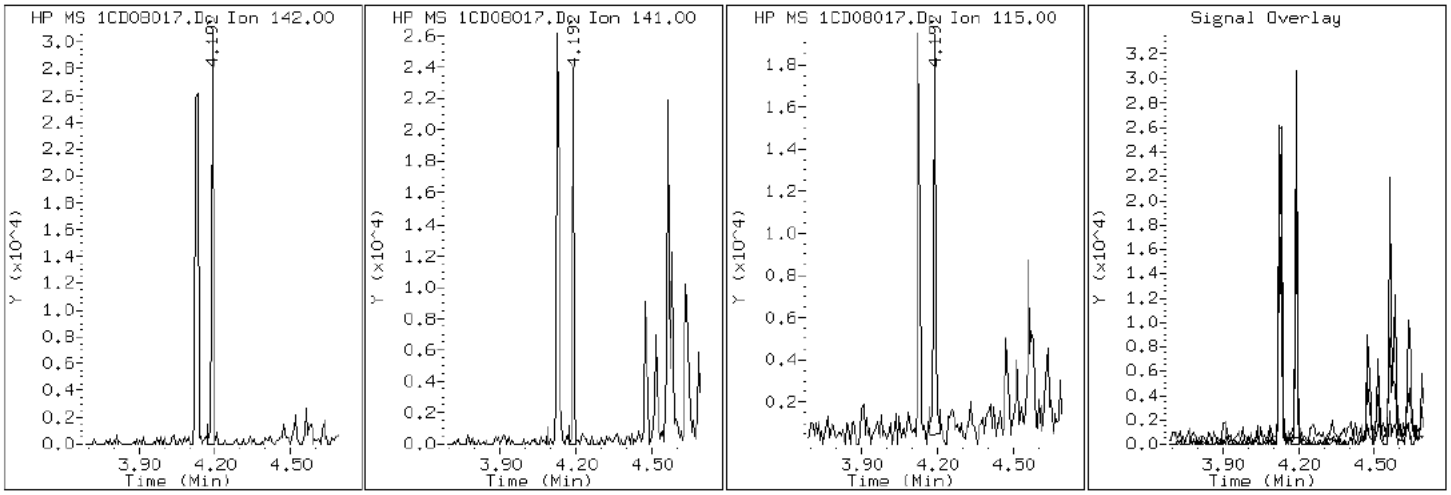
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

4 1-Methylnaphthalene



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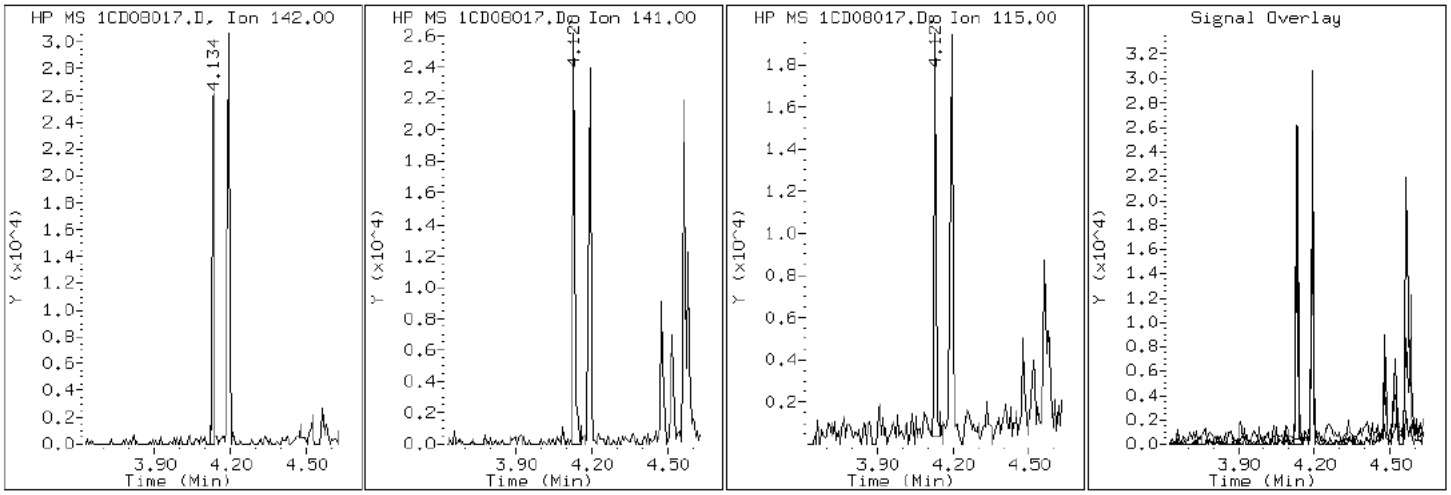
Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

3 2-Methylnaphthalene



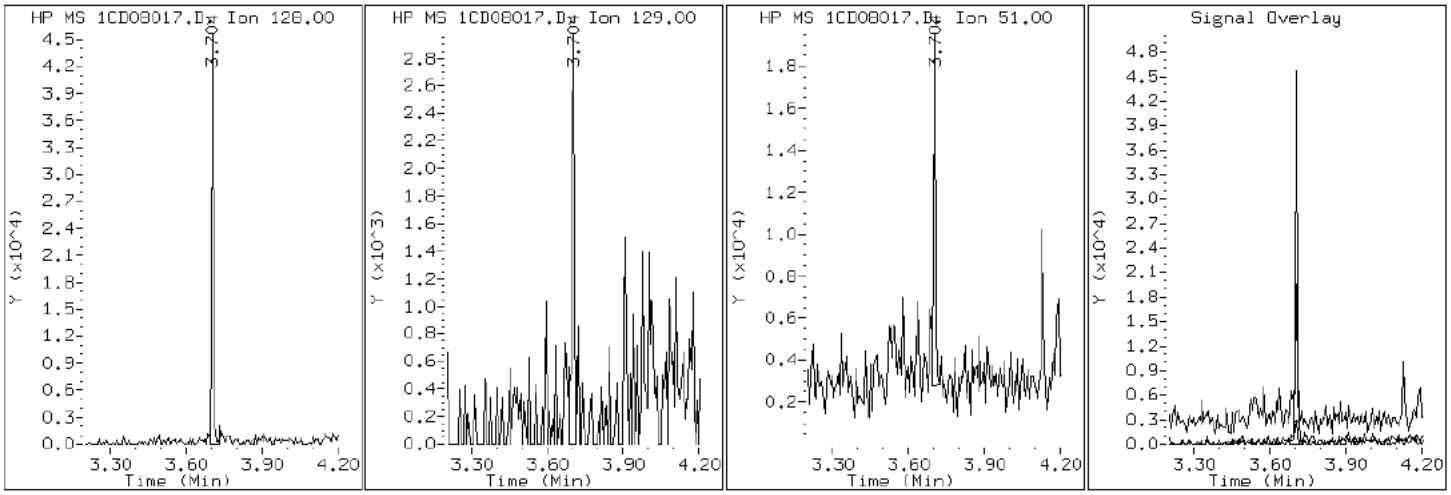
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

2 Naphthalene



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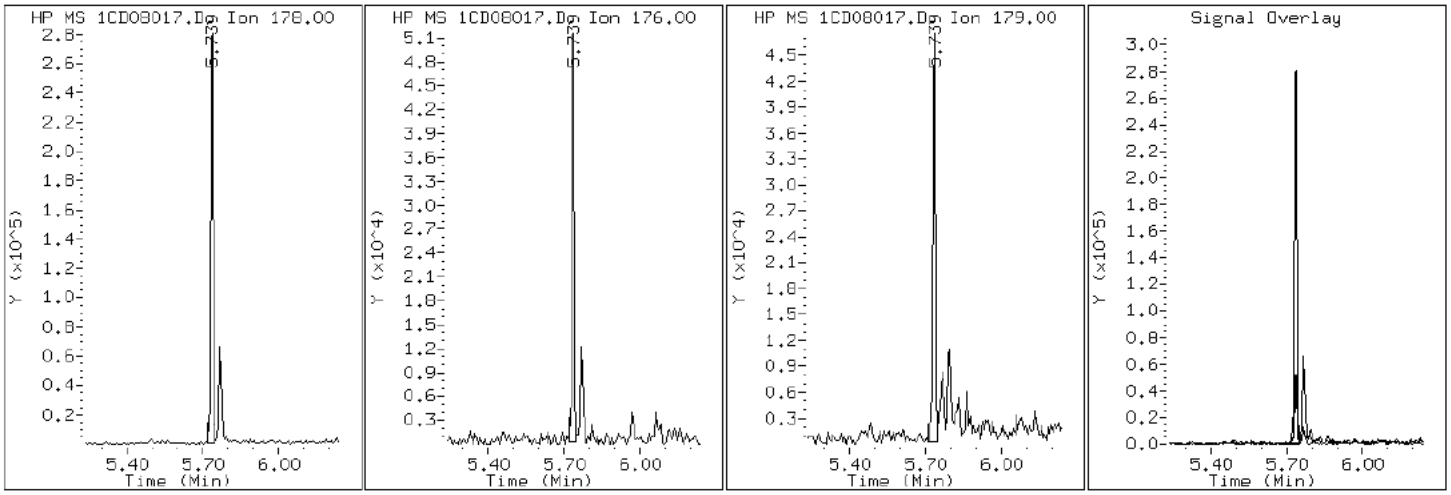
Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

11 Phenanthrene



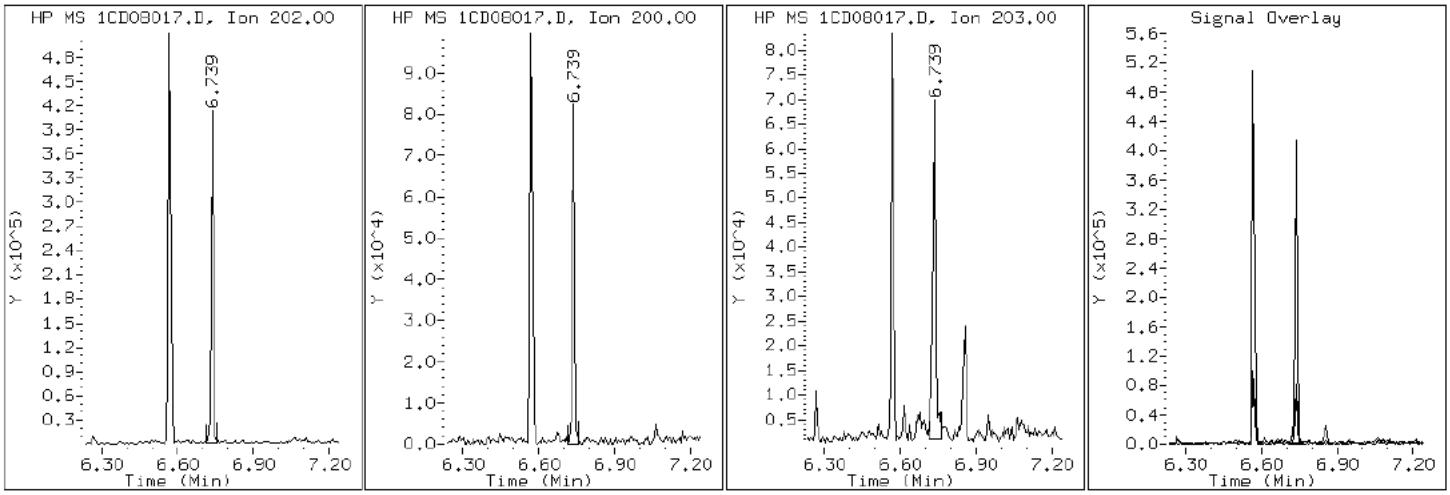
Data File: 1CD08017.D

Date: 08-APR-2013 17:25

Client ID: CV1040A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-25-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08017.D
Inj. Date and Time: 08-APR-2013 17:25
Instrument ID: BSMC5973.i
Client ID: CV1040A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

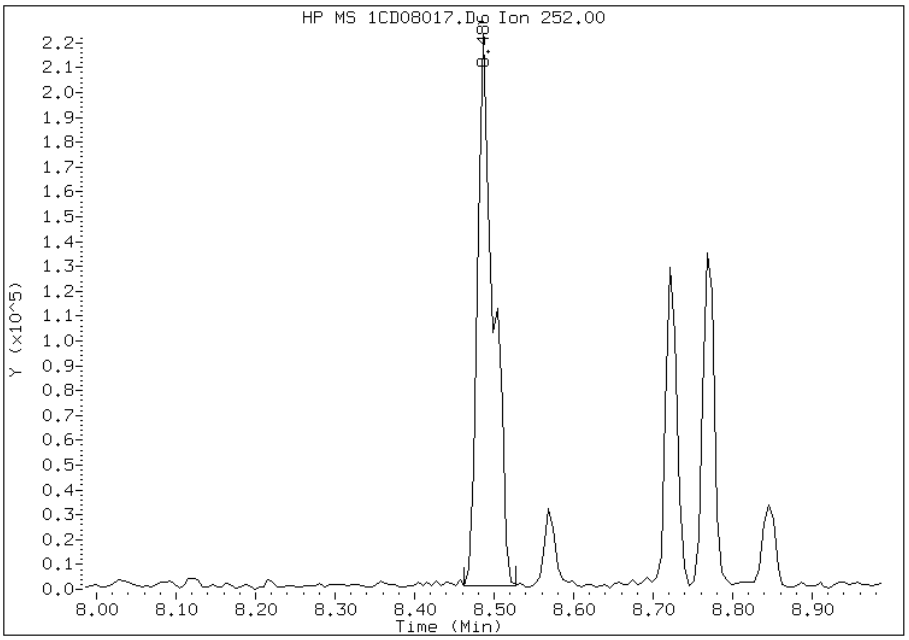
Processing Integration Results

RT: 8.49

Response: 310224

Amount: 18

Conc: 1665



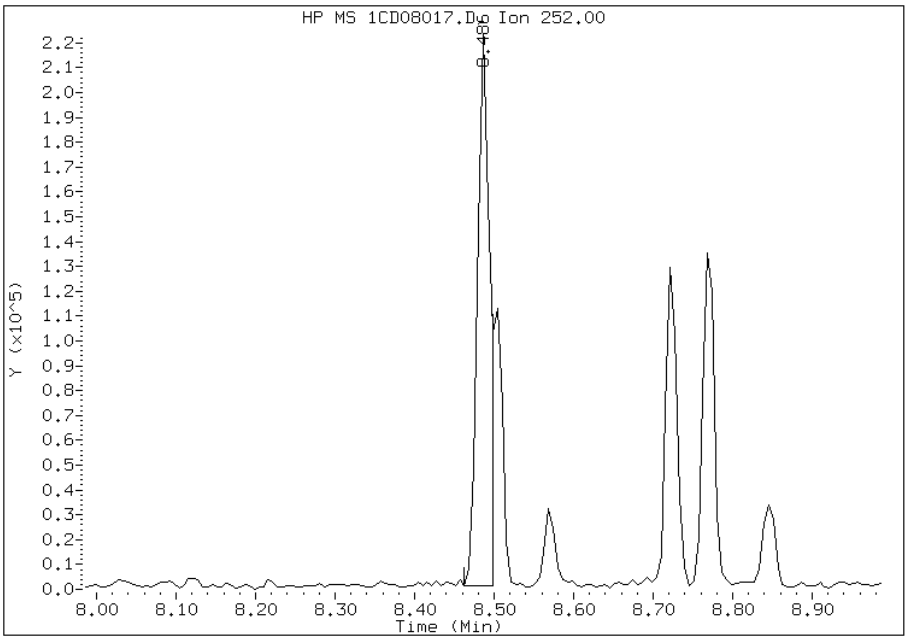
Manual Integration Results

RT: 8.49

Response: 238357

Amount: 14

Conc: 1279



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08017.D
Inj. Date and Time: 08-APR-2013 17:25
Instrument ID: BSMC5973.i
Client ID: CV1040A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

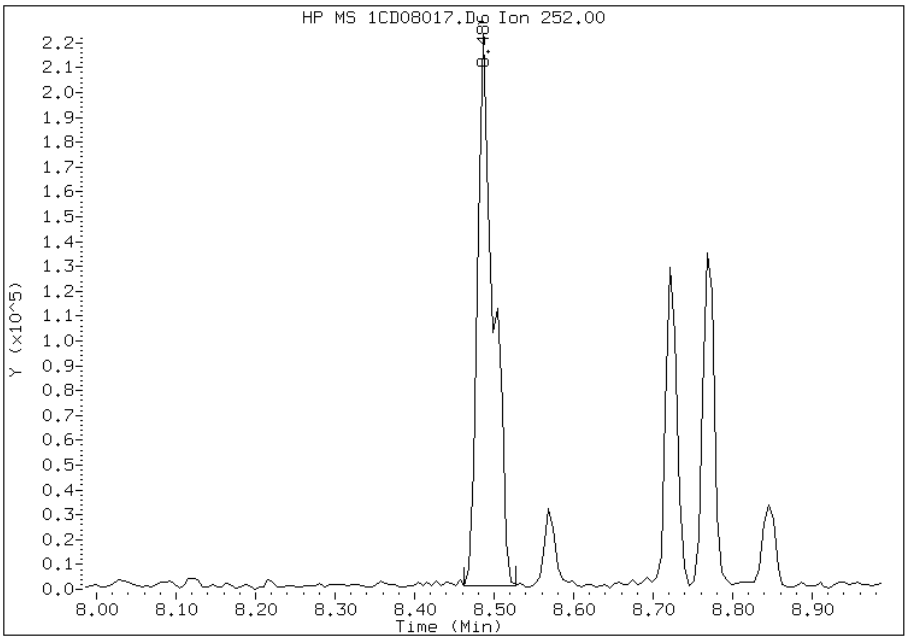
Processing Integration Results

RT: 8.49

Response: 310753

Amount: 18

Conc: 1724



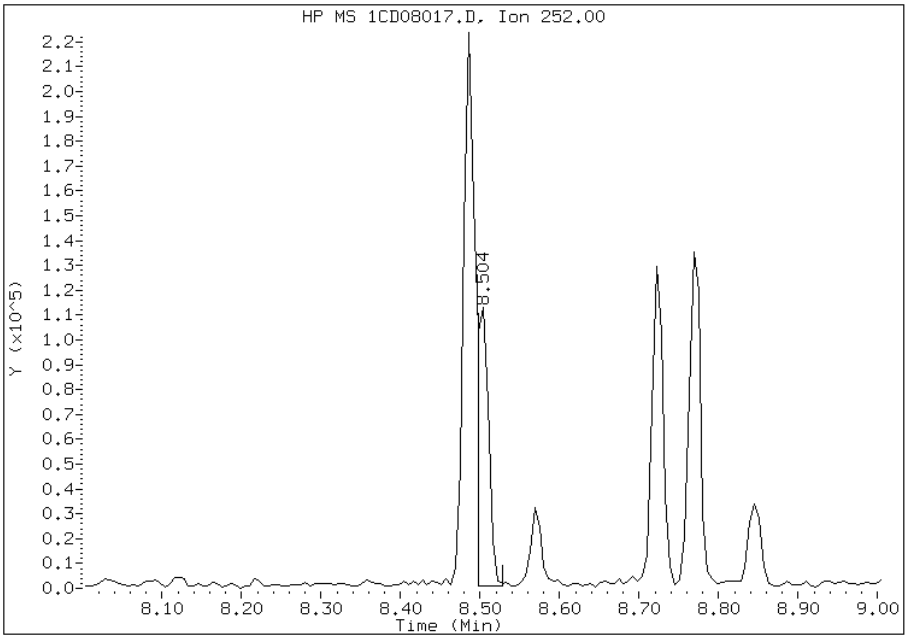
Manual Integration Results

RT: 8.50

Response: 109562

Amount: 6

Conc: 608



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08017.D
Inj. Date and Time: 08-APR-2013 17:25
Instrument ID: BSMC5973.i
Client ID: CV1040A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

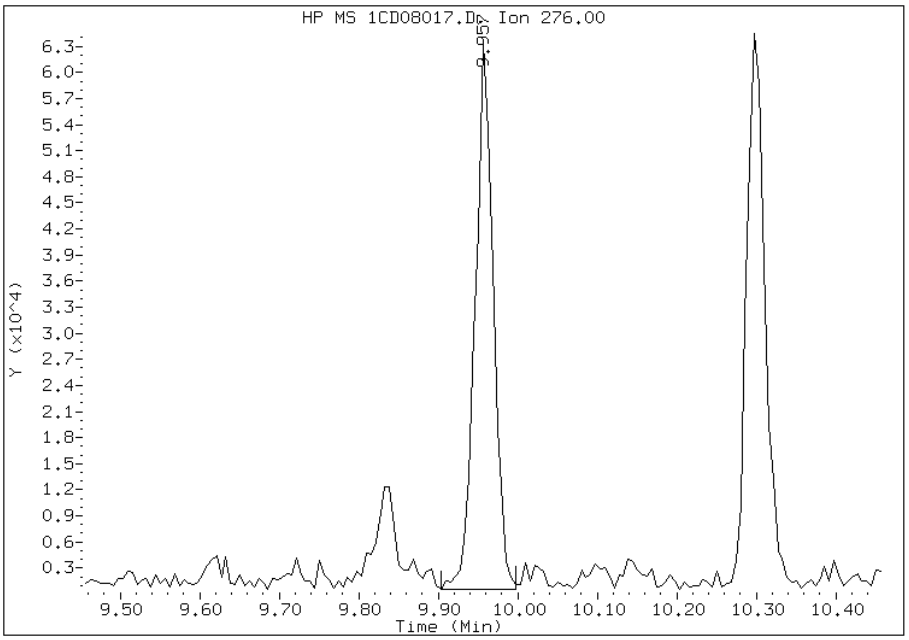
Processing Integration Results

RT: 9.96

Response: 98942

Amount: 6

Conc: 594



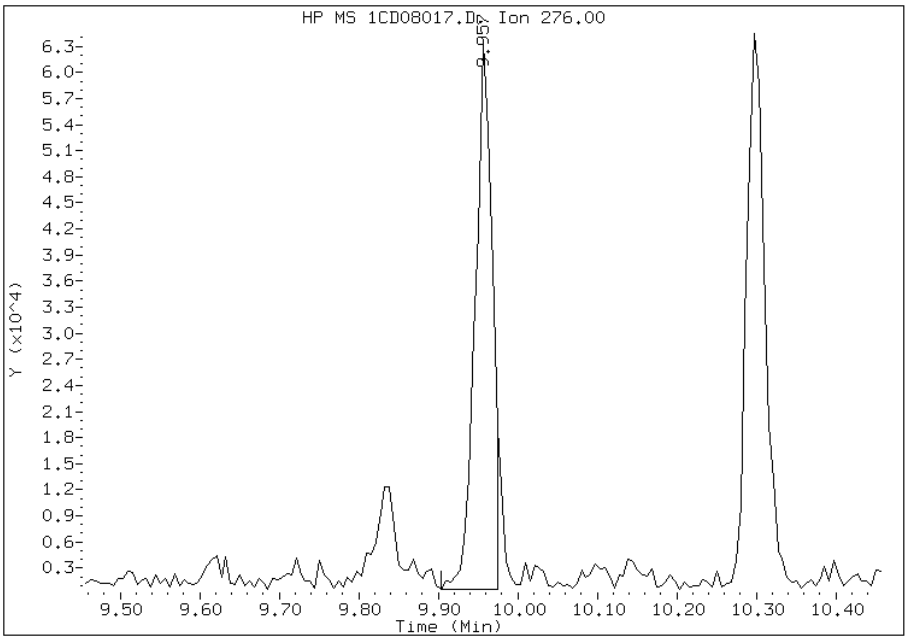
Manual Integration Results

RT: 9.96

Response: 93784

Amount: 6

Conc: 563



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1042A-CS | Lab Sample ID: 680-88811-26

Matrix: Solid | Lab File ID: 1CD08018.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 13:12

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.97(g) | Date Analyzed: 04/08/2013 17:44

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

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

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

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	40	J	130	27
208-96-8	Acenaphthylene	53		53	6.7
120-12-7	Anthracene	100		11	5.6
56-55-3	Benzo[a]anthracene	480		11	5.2
50-32-8	Benzo[a]pyrene	400		14	6.9
205-99-2	Benzo[b]fluoranthene	610		16	8.1
191-24-2	Benzo[g,h,i]perylene	260		27	5.9
207-08-9	Benzo[k]fluoranthene	270		11	4.8
218-01-9	Chrysene	510		12	6.0
53-70-3	Dibenz(a,h)anthracene	60		27	5.5
206-44-0	Fluoranthene	850		27	5.3
86-73-7	Fluorene	33		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	240		27	9.5
90-12-0	1-Methylnaphthalene	540		53	5.9
91-57-6	2-Methylnaphthalene	800		53	9.5
91-20-3	Naphthalene	630		53	5.9
85-01-8	Phenanthrene	650		11	5.2
129-00-0	Pyrene	700		27	4.9

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\1C040813.b\1CD08018.D
Lab Smp Id: 680-88811-A-26-A Client Smp ID: CV1042A-CS
Inj Date : 08-APR-2013 17:44
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-26-A
Misc Info : 680-88811-A-26-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	24.819	% 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	3.692	3.692	(1.000)	447438	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	335293	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	610581	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	65013	7.24876	644.0736
*	18 Chrysene-d12	240	7.662	7.656	(1.000)	686498	40.0000	
*	23 Perylene-d12	264	8.833	8.821	(1.000)	644585	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	81271	7.07175	628.3454
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	70332	8.99038	798.8217
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	42486	6.03563	536.2833
	5 Acenaphthylene	152	4.692	4.686	(0.983)	8305	0.59847	53.1761
	7 Acenaphthene	154	4.798	4.798	(1.005)	3876	0.45096	40.0693
	9 Fluorene	166	5.115	5.115	(1.071)	4194	0.36604	32.5233(Q)
	11 Phenanthrene	178	5.739	5.739	(1.003)	129350	7.27382	646.3000
	12 Anthracene	178	5.768	5.768	(1.008)	21036	1.16694	103.6856

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	15733	1.01869	90.5139
15 Fluoranthene	202	6.574	6.568	(1.149)	187140	9.52898	846.6777
16 Pyrene	202	6.739	6.739	(0.879)	149426	7.85769	698.1789
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	103964	5.36225	476.4520
19 Chrysene	228	7.680	7.674	(1.002)	112401	5.74583	510.5336
20 Benzo(b)fluoranthene	252	8.492	8.486	(0.961)	125481	6.88587	611.8298(M)
21 Benzo(k)fluoranthene	252	8.509	8.503	(0.963)	53882	3.05715	271.6370(M)
22 Benzo(a)pyrene	252	8.774	8.768	(0.993)	76285	4.44642	395.0774
24 Indeno(1,2,3-cd)pyrene	276	9.968	9.956	(1.129)	43866	2.69192	239.1851(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.129)	10134	0.67322	59.8171
26 Benzo(g,h,i)perylene	276	10.315	10.297	(1.168)	48205	2.89843	257.5339

QC Flag Legend

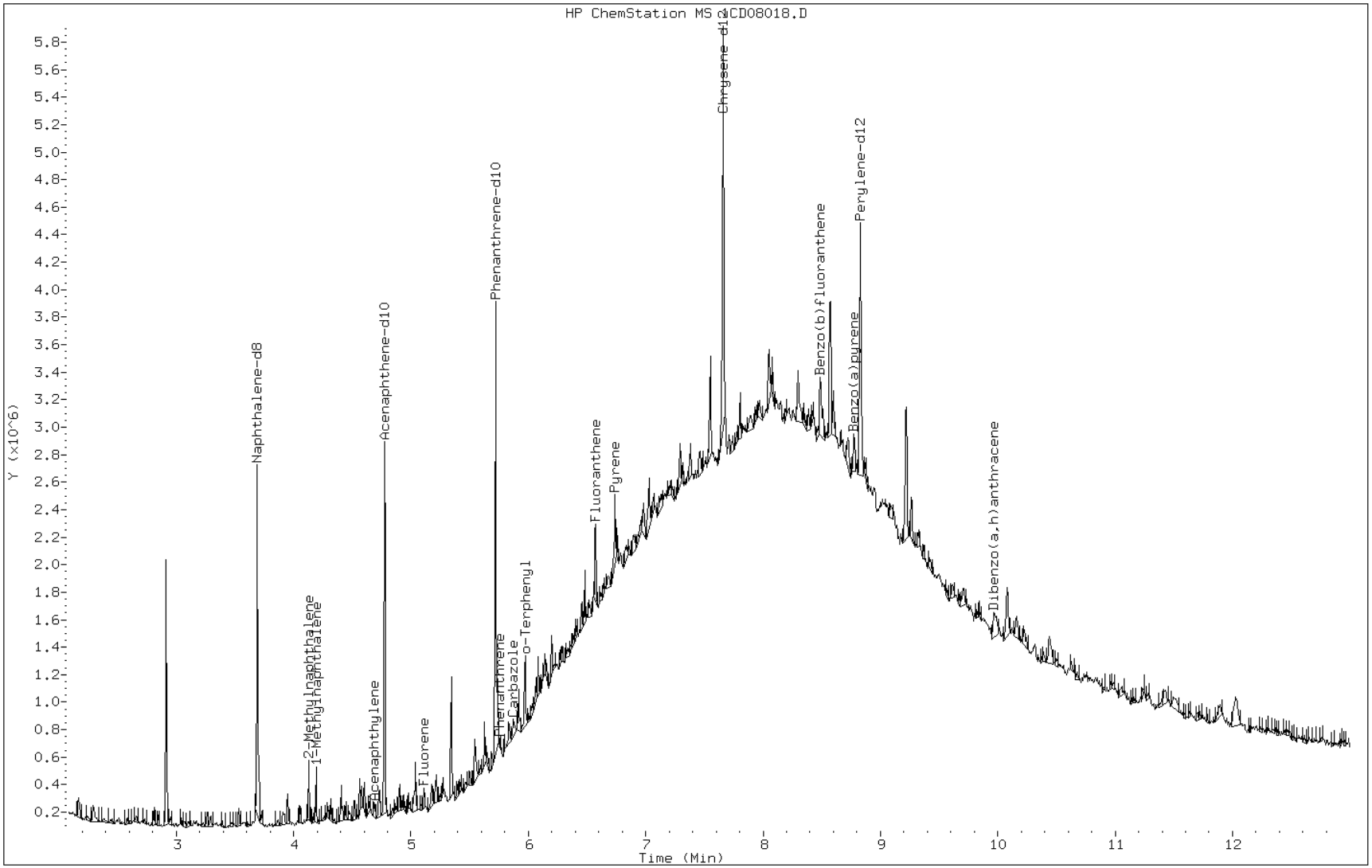
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP



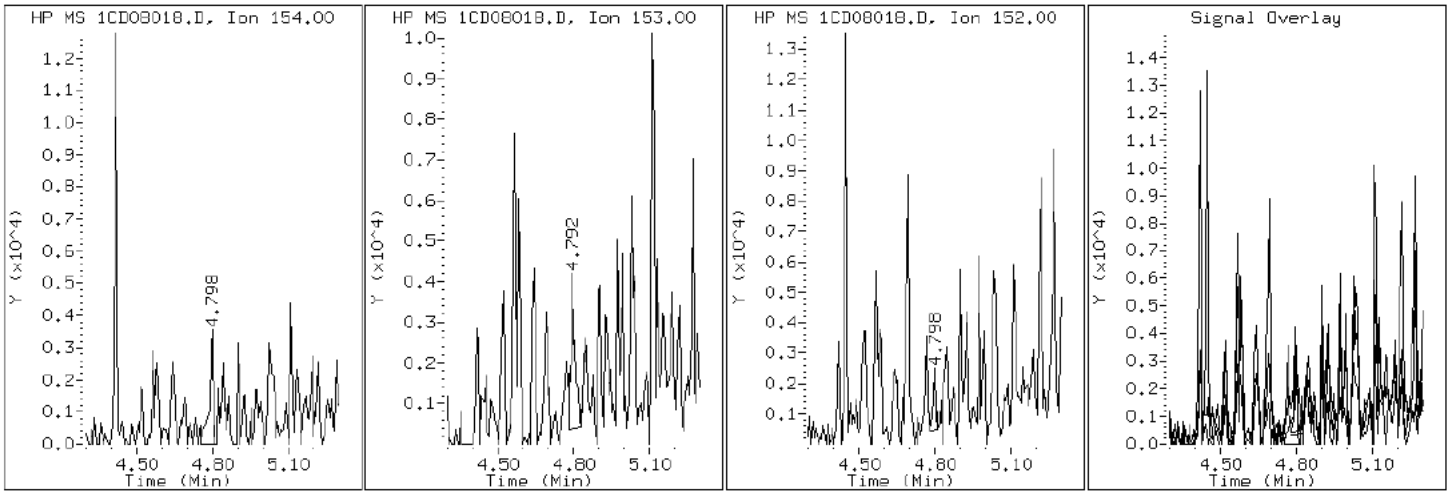
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

7 Acenaphthene



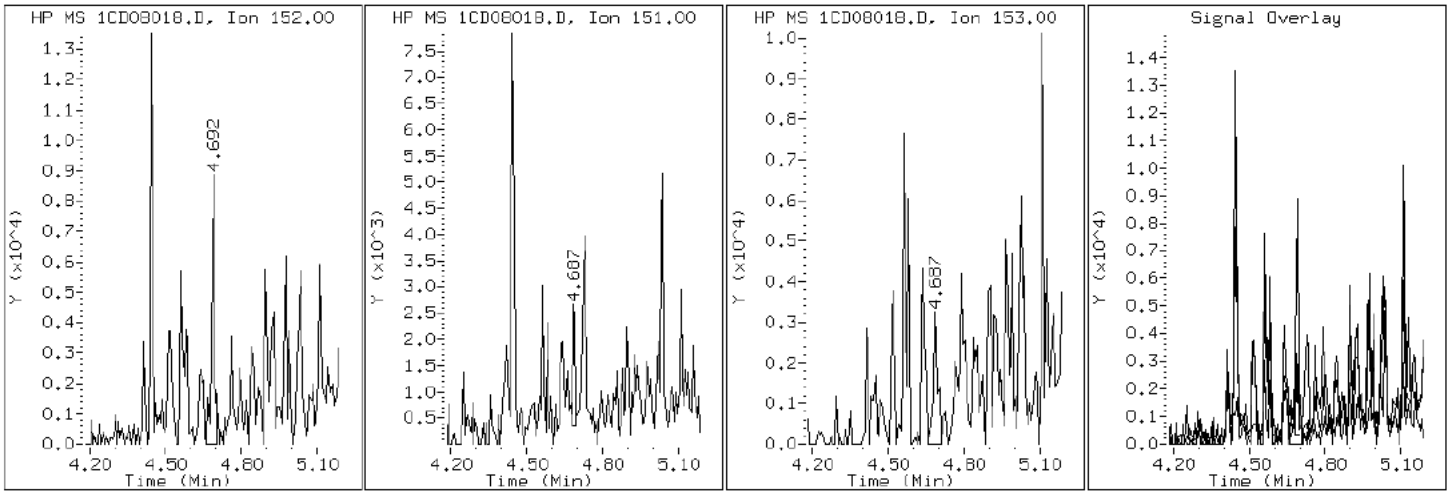
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

5 Acenaphthylene



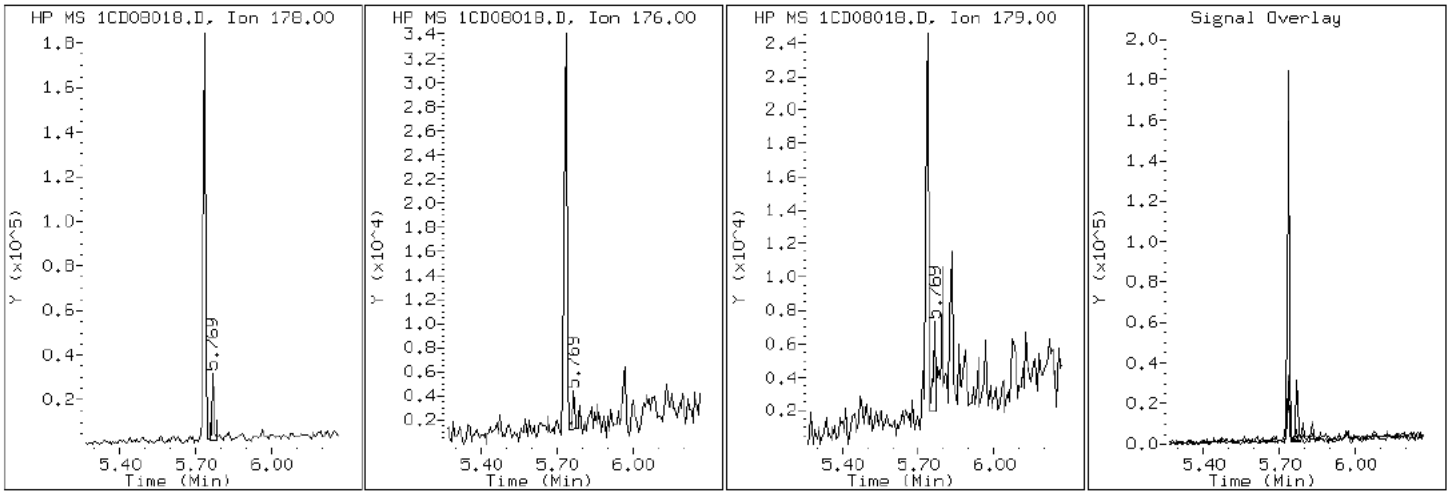
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

12 Anthracene



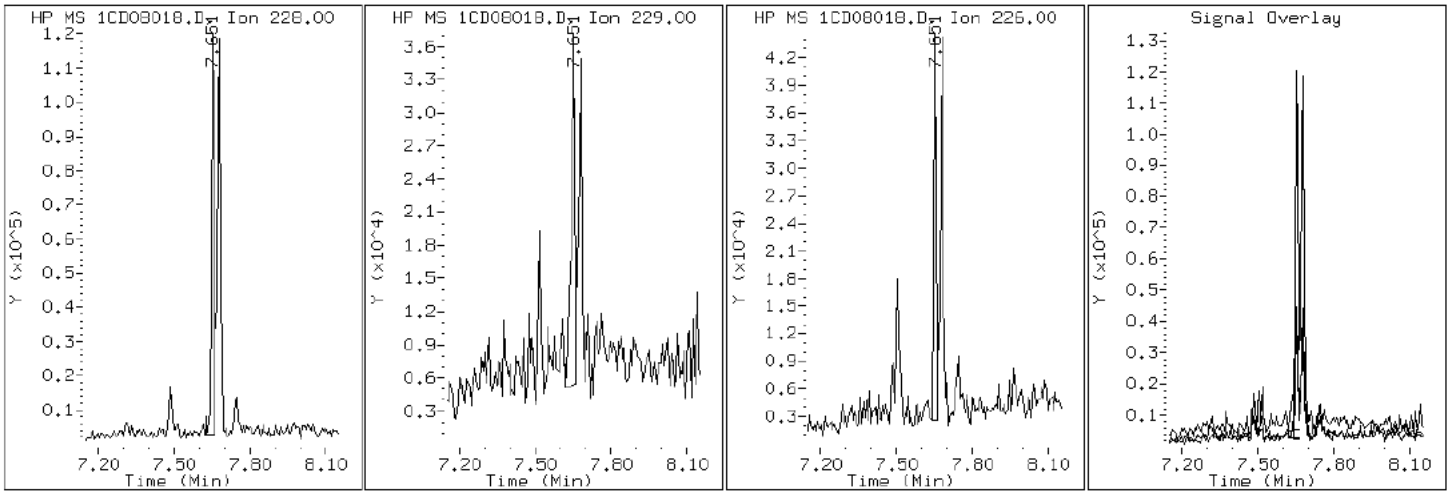
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

17 Benzo(a)anthracene



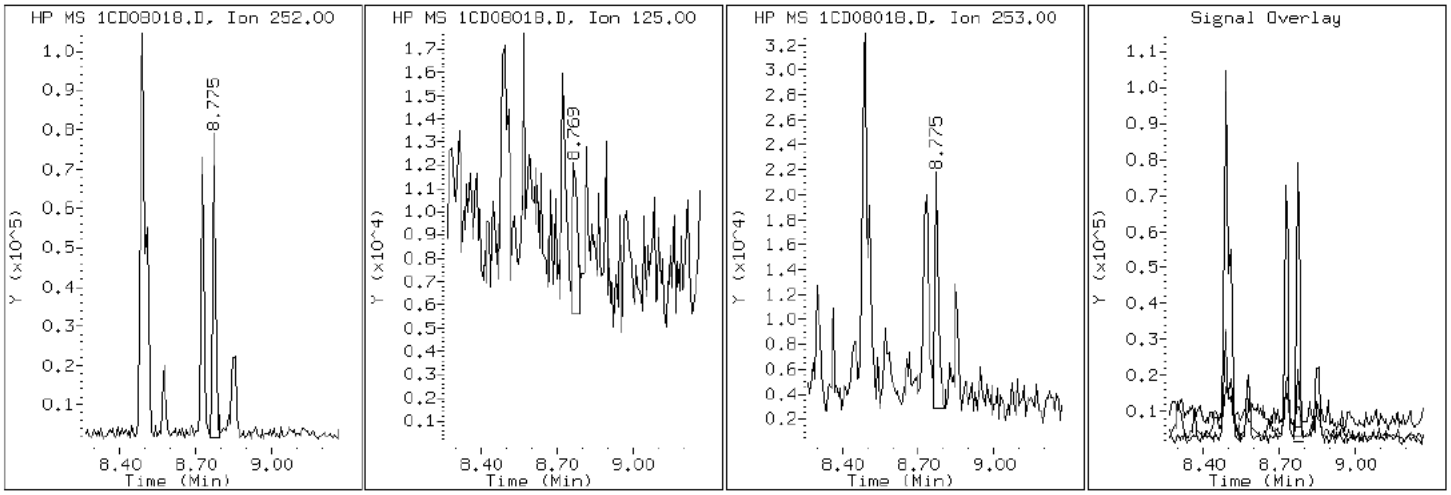
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

22 Benzo(a)pyrene



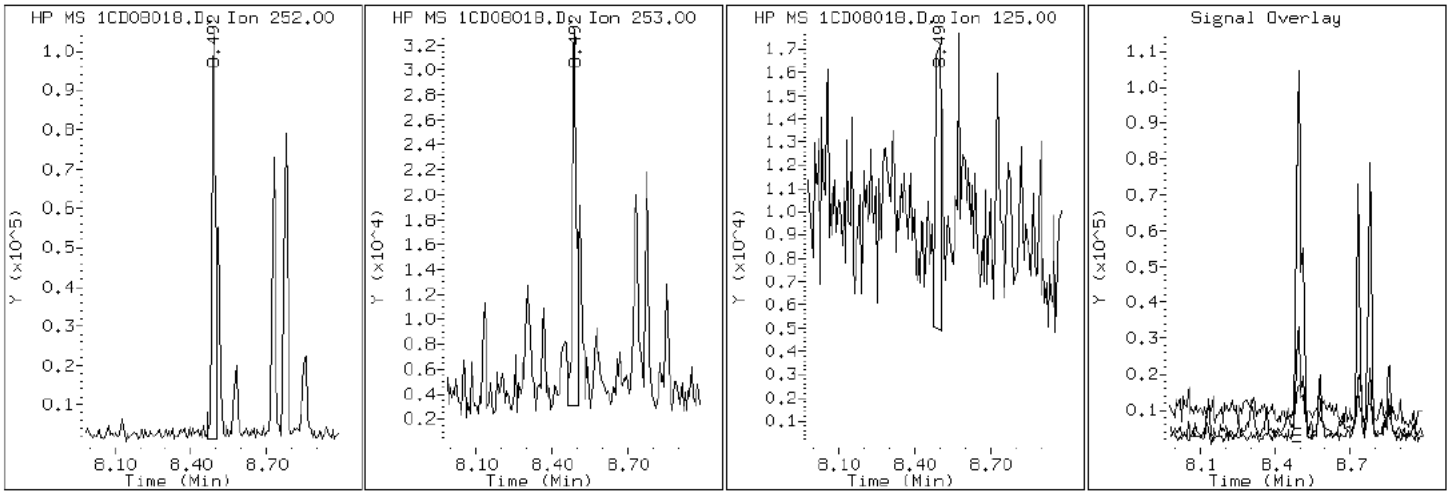
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

20 Benzo(b)fluoranthene



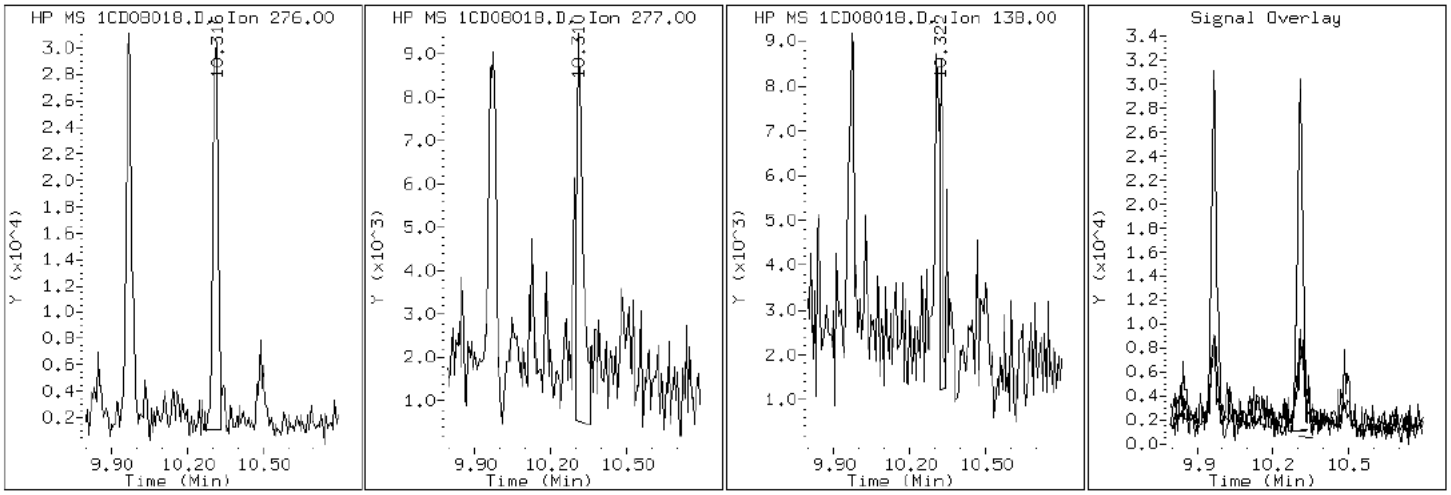
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

26 Benzo(g,h,i)perylene



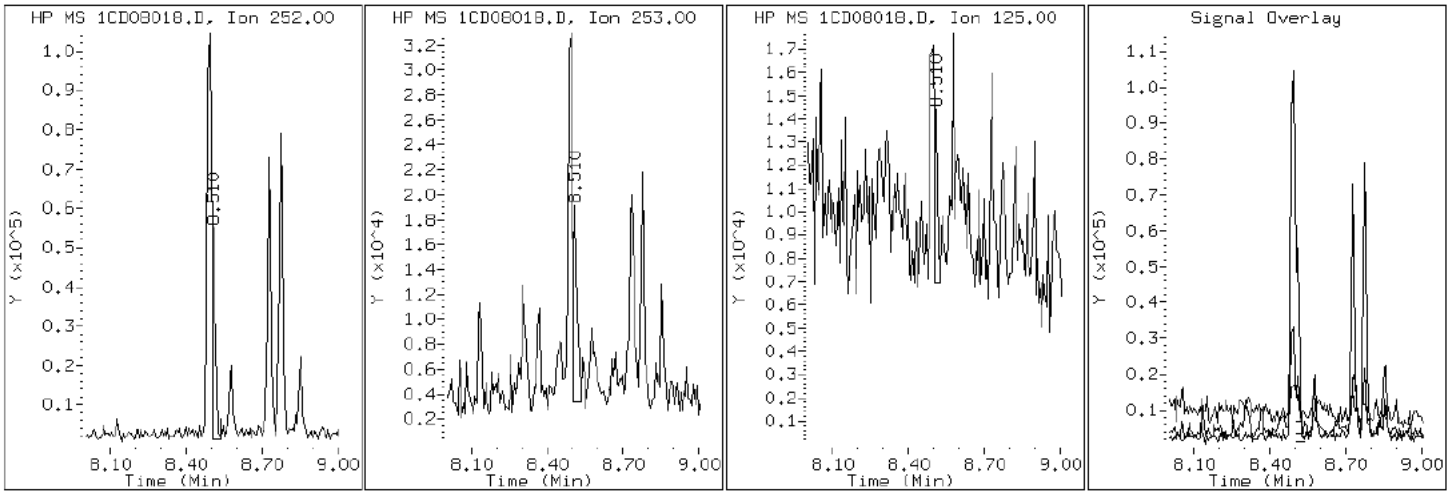
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

21 Benzo(k)fluoranthene



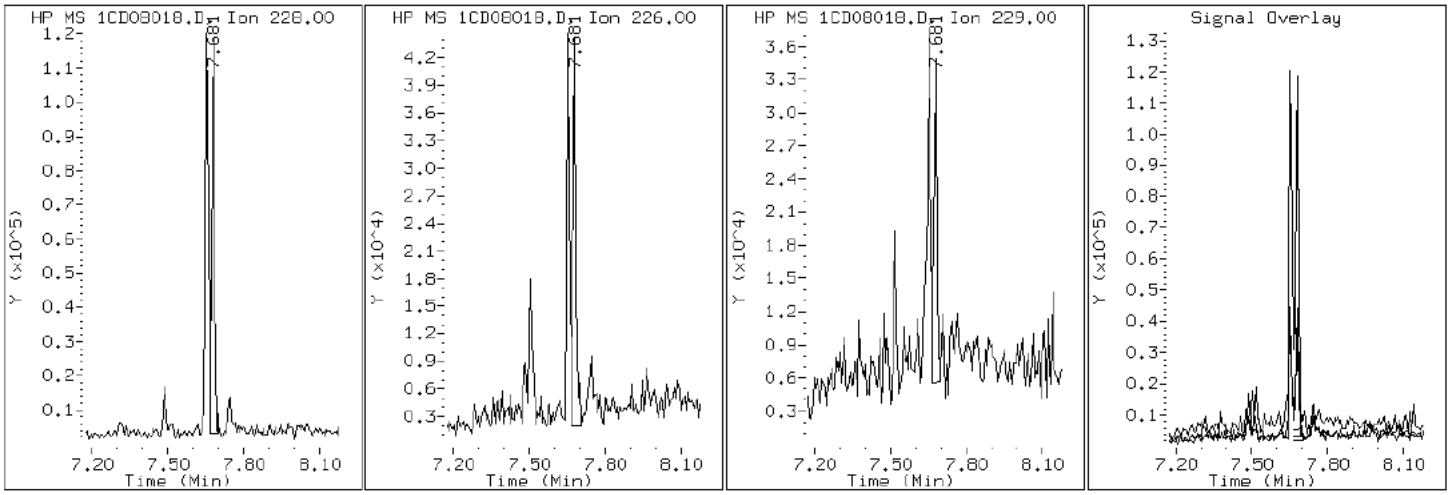
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

19 Chrysene



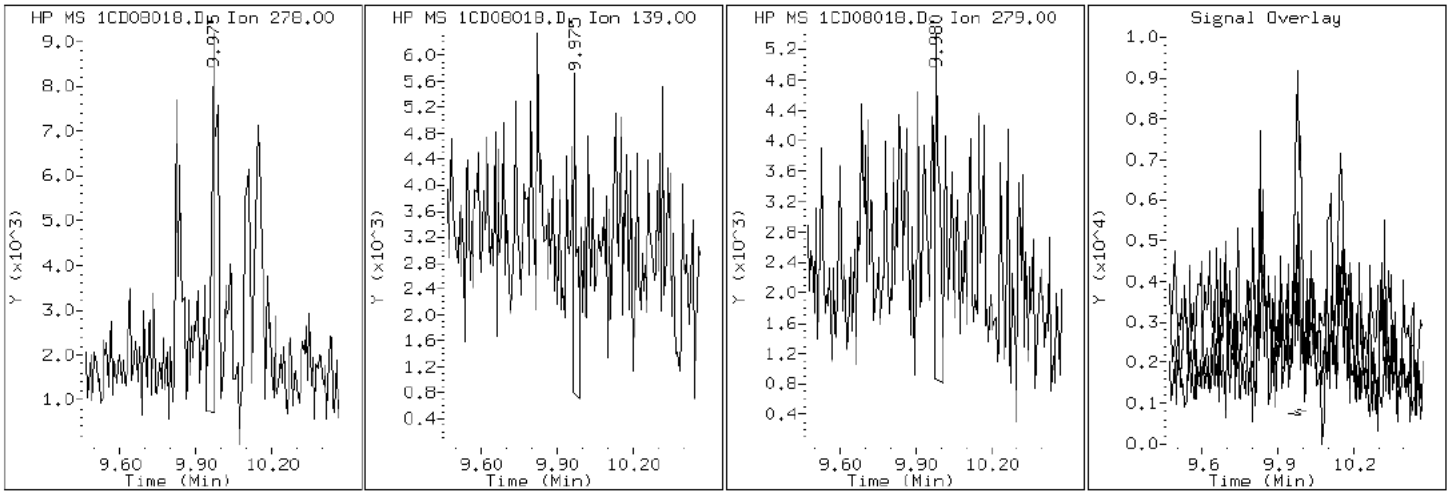
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

25 Dibenzo(a,h)anthracene



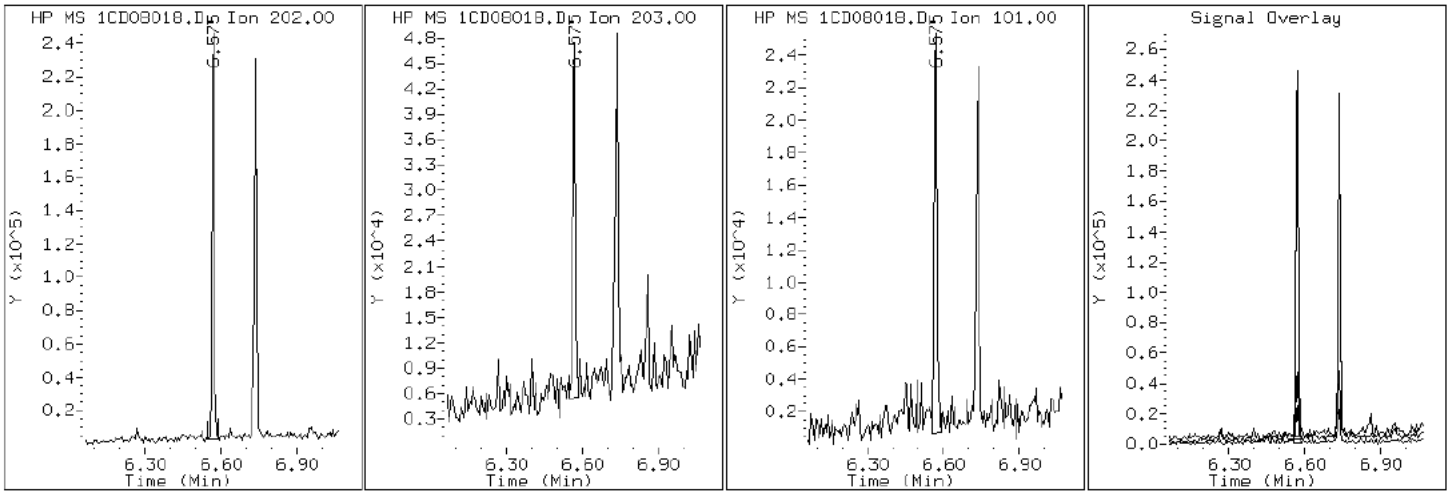
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

15 Fluoranthene



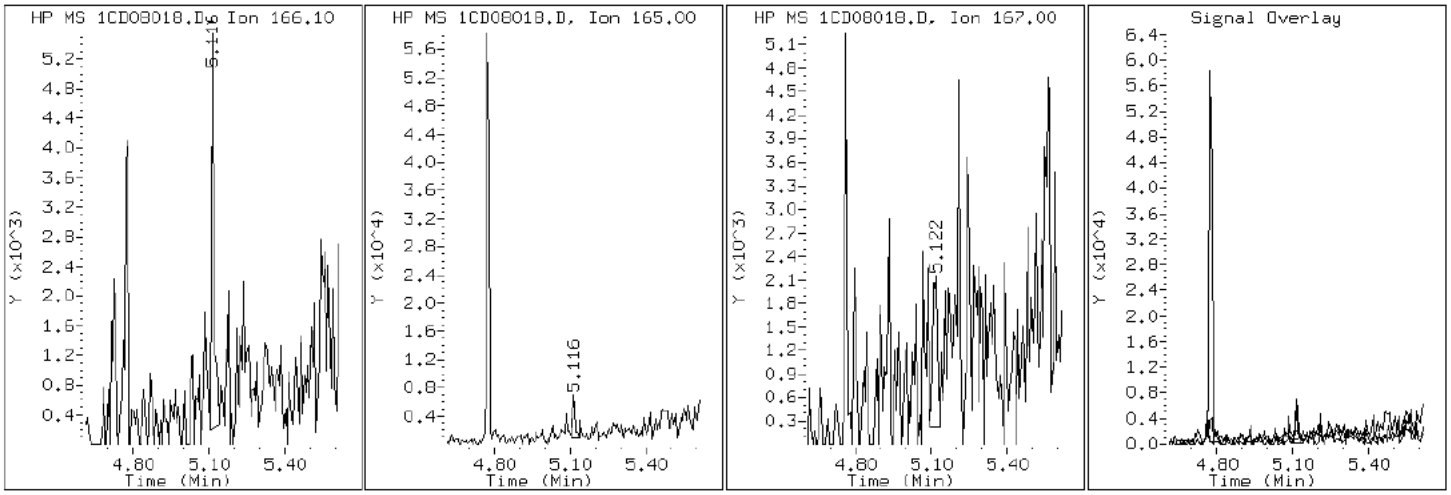
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

9 Fluorene



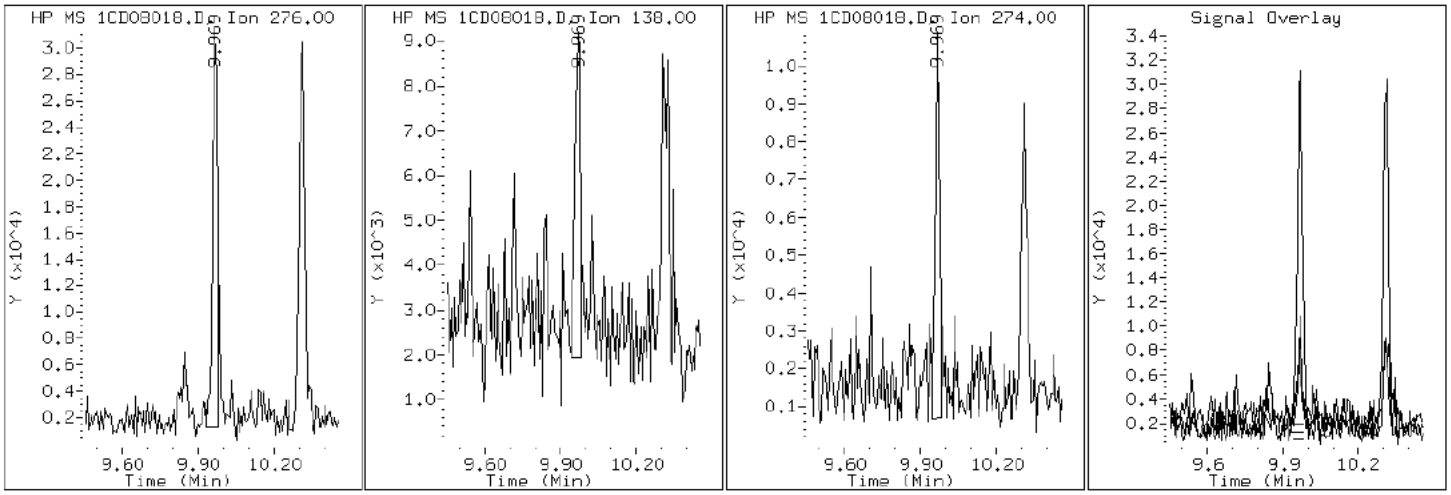
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

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



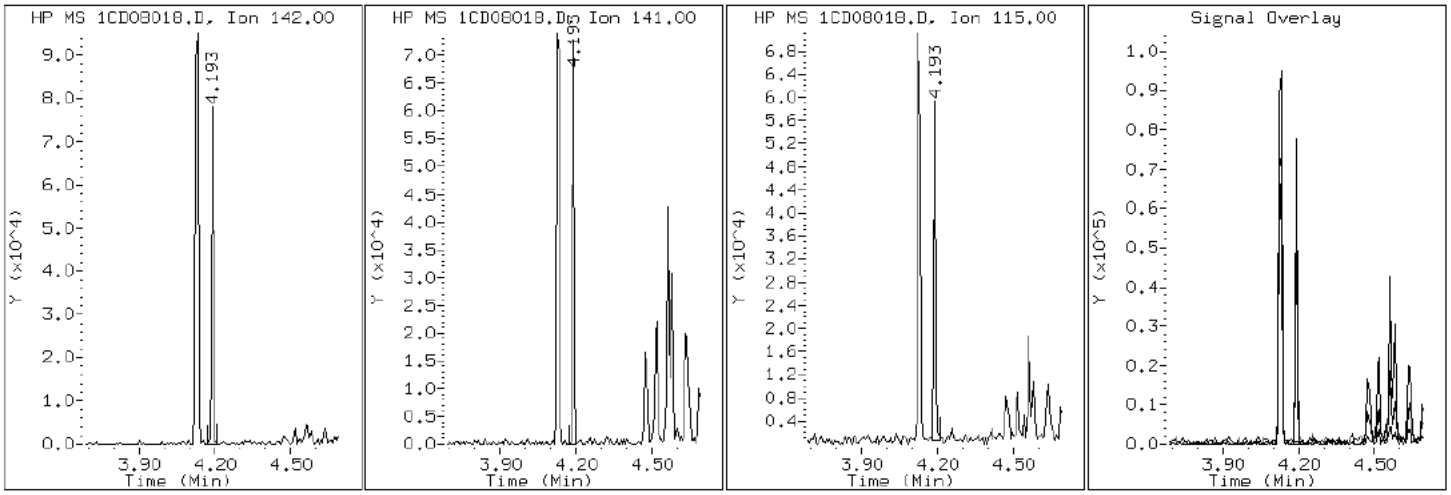
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

4 1-Methylnaphthalene



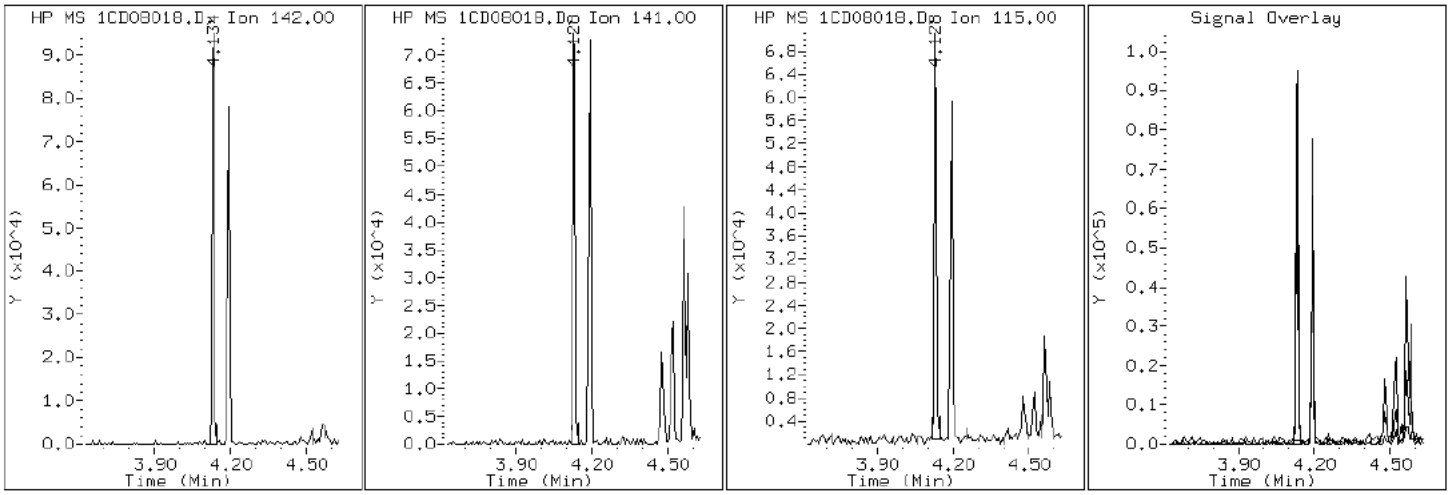
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

3 2-Methylnaphthalene



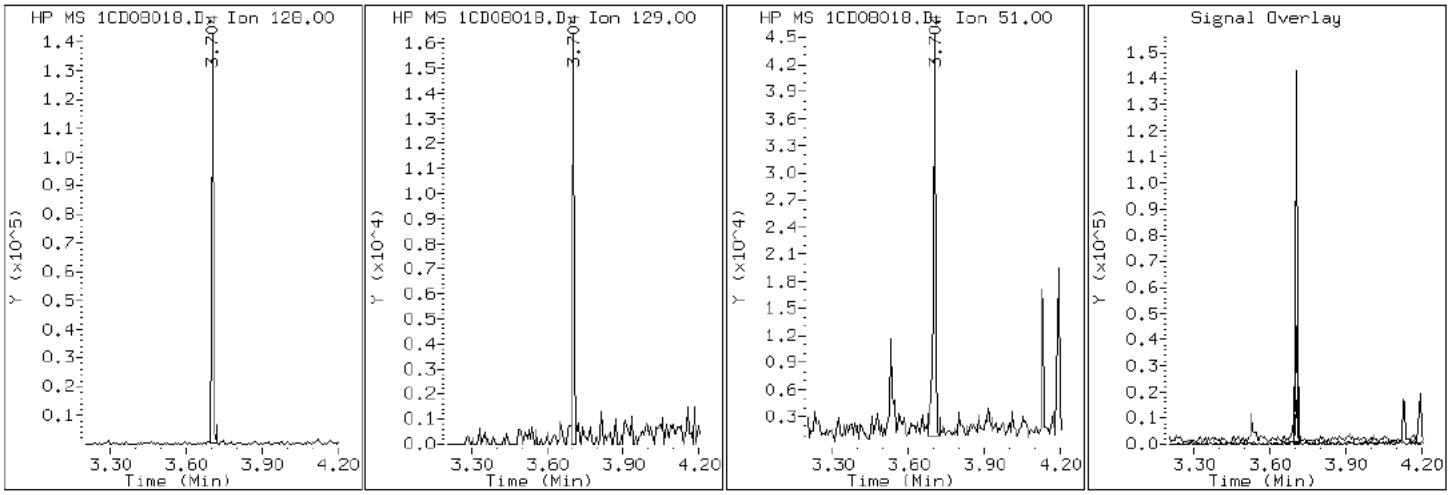
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

2 Naphthalene



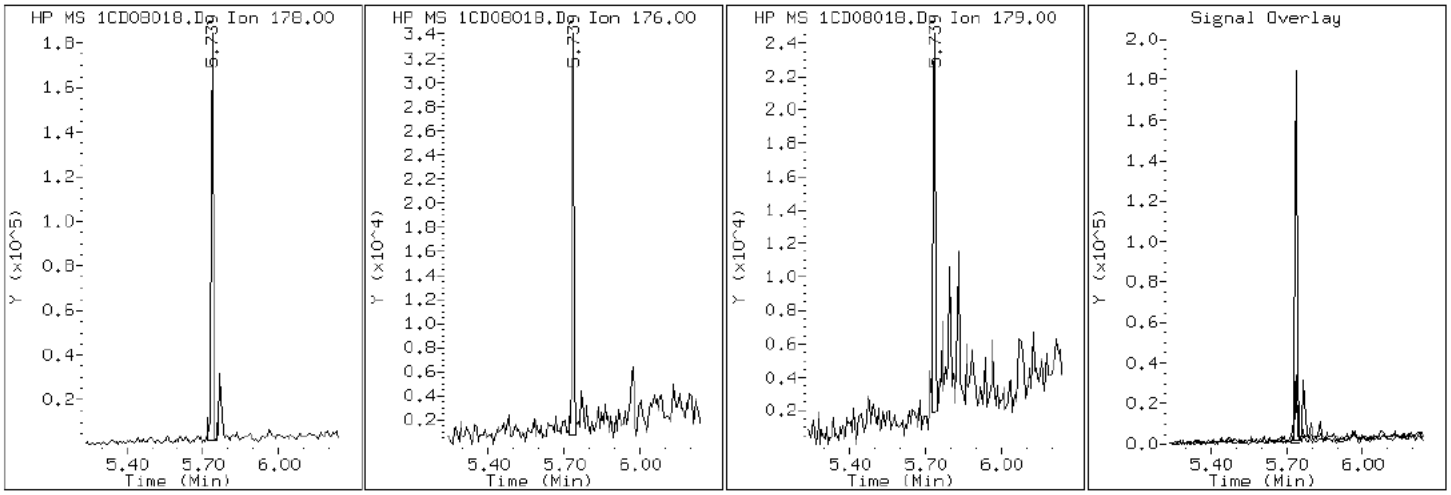
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

11 Phenanthrene



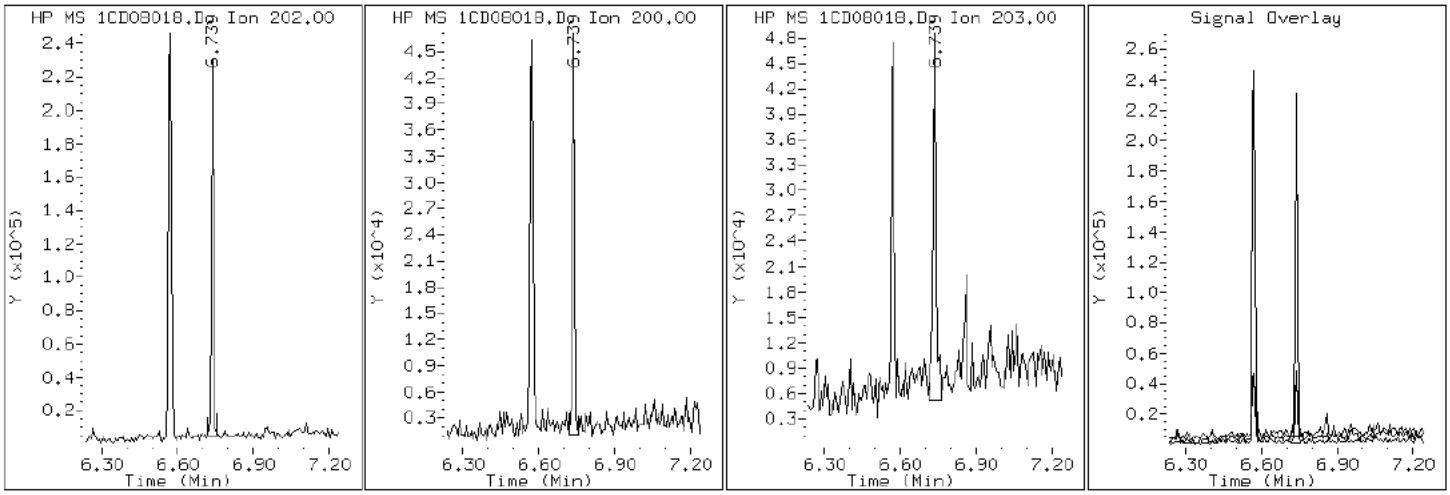
Data File: 1CD08018.D

Date: 08-APR-2013 17:44

Client ID: CV1042A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-26-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08018.D
Inj. Date and Time: 08-APR-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV1042A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

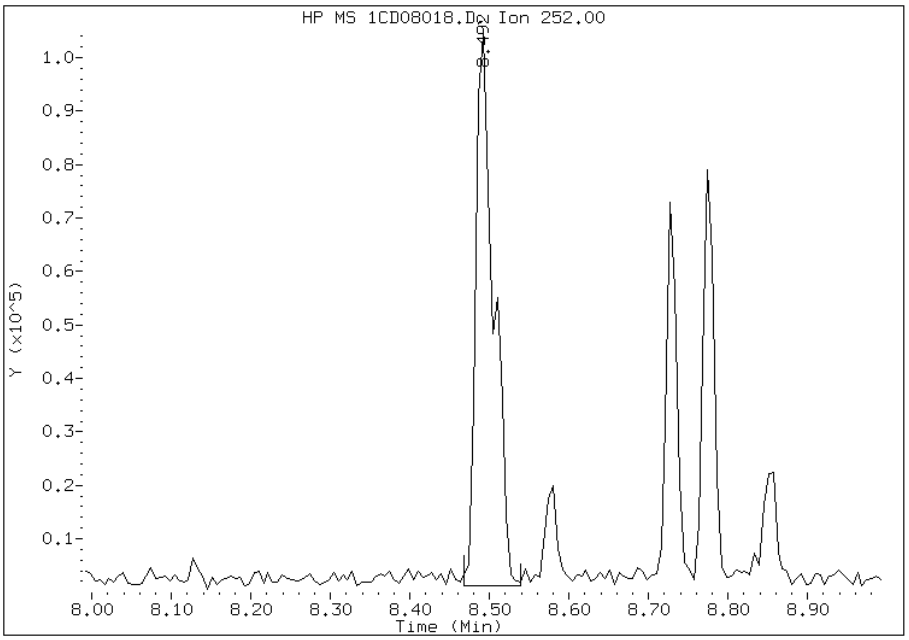
Processing Integration Results

RT: 8.49

Response: 162713

Amount: 9

Conc: 793



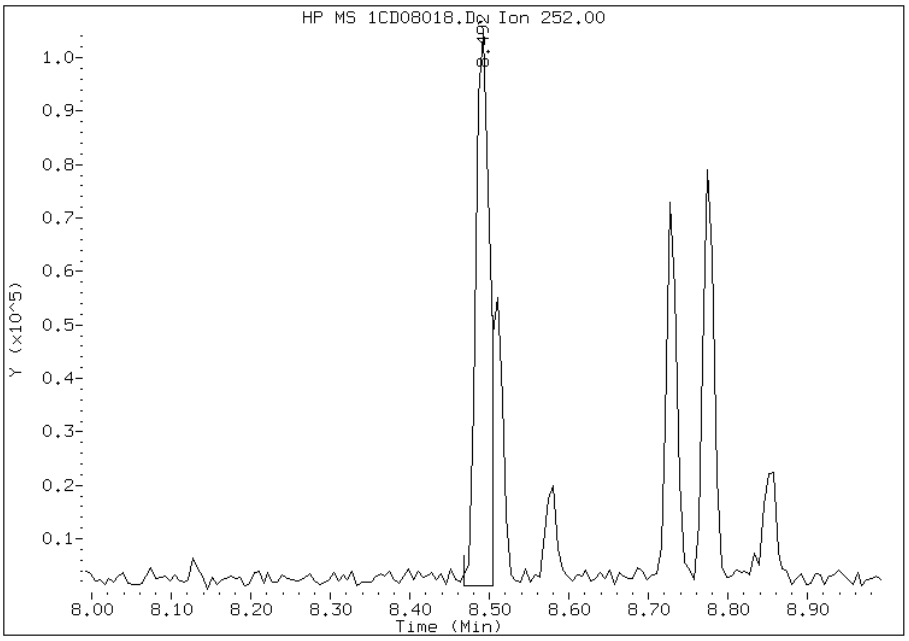
Manual Integration Results

RT: 8.49

Response: 125481

Amount: 7

Conc: 612



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08018.D
Inj. Date and Time: 08-APR-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV1042A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

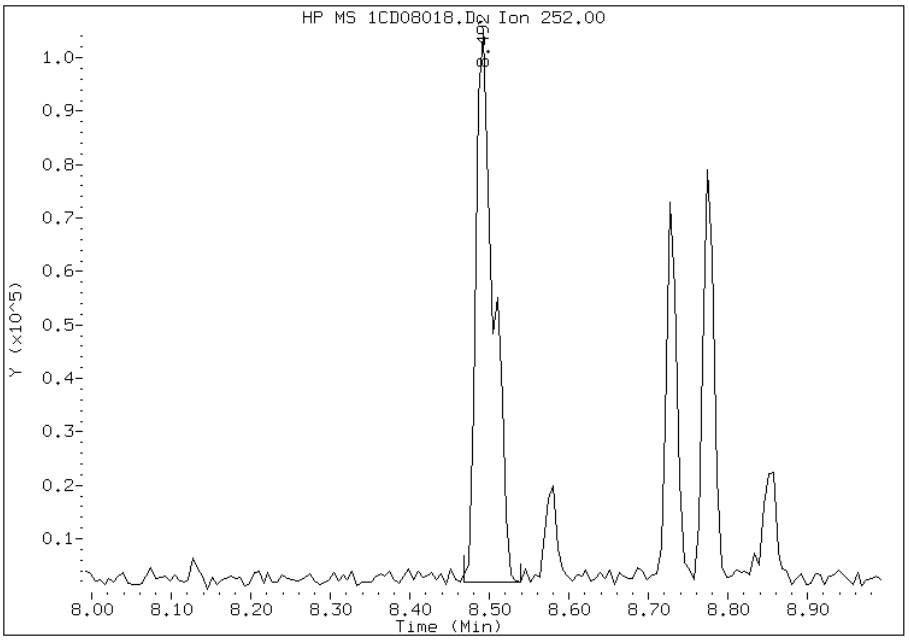
Processing Integration Results

RT: 8.49

Response: 160139

Amount: 9

Conc: 807



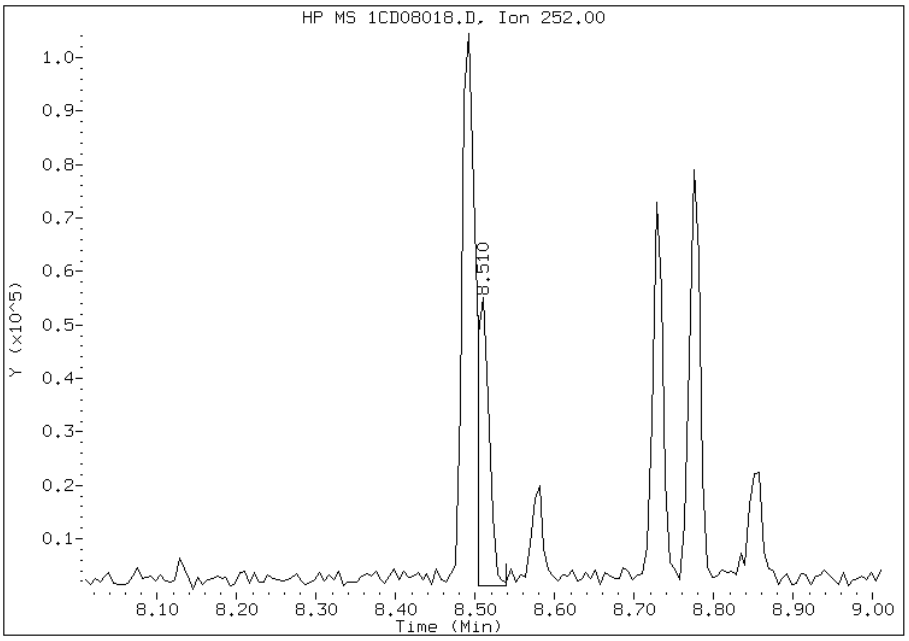
Manual Integration Results

RT: 8.51

Response: 53882

Amount: 3

Conc: 272



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08018.D
Inj. Date and Time: 08-APR-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV1042A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

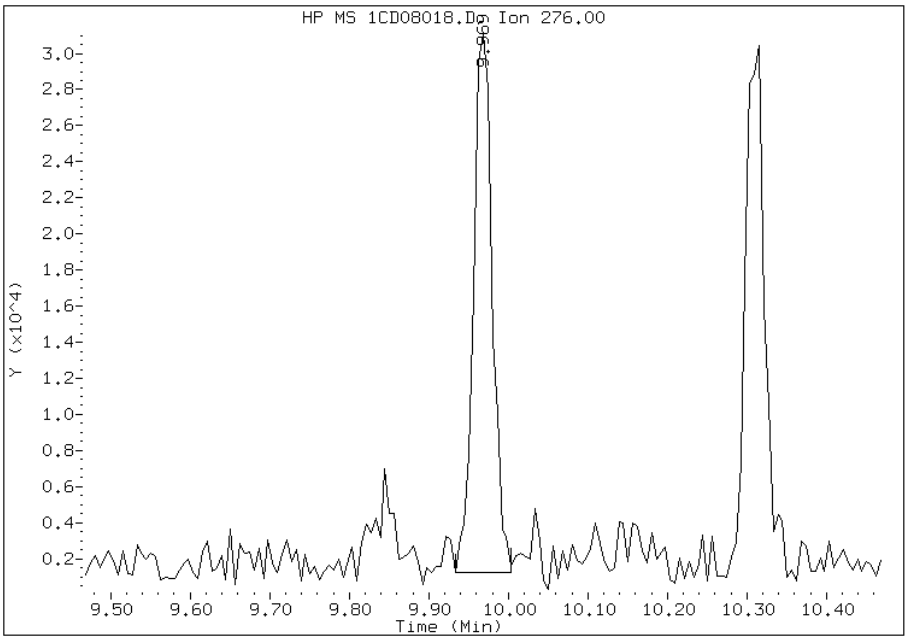
Processing Integration Results

RT: 9.97

Response: 48614

Amount: 3

Conc: 265



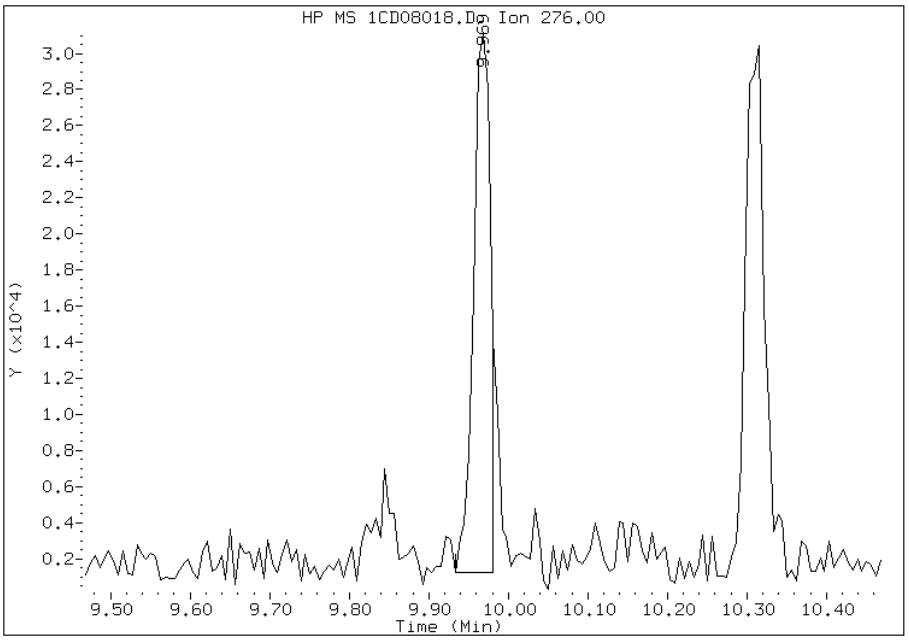
Manual Integration Results

RT: 9.97

Response: 43866

Amount: 3

Conc: 239



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1366A-CS | Lab Sample ID: 680-88811-27

Matrix: Solid | Lab File ID: 1CD08019.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 13:10

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.00(g) | Date Analyzed: 04/08/2013 18:02

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

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

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

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	22	J	53	6.6
120-12-7	Anthracene	32		11	5.5
56-55-3	Benzo[a]anthracene	210		11	5.1
50-32-8	Benzo[a]pyrene	180		14	6.8
205-99-2	Benzo[b]fluoranthene	310		16	8.0
191-24-2	Benzo[g,h,i]perylene	150		26	5.8
207-08-9	Benzo[k]fluoranthene	120		11	4.7
218-01-9	Chrysene	230		12	5.9
53-70-3	Dibenz(a,h)anthracene	26	U	26	5.4
206-44-0	Fluoranthene	310		26	5.3
86-73-7	Fluorene	17	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	120		26	9.3
90-12-0	1-Methylnaphthalene	46	J	53	5.8
91-57-6	2-Methylnaphthalene	65		53	9.3
91-20-3	Naphthalene	95		53	5.8
85-01-8	Phenanthrene	160		11	5.1
129-00-0	Pyrene	300		26	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08019.D
Lab Smp Id: 680-88811-A-27-A Client Smp ID: CV1366A-CS
Inj Date : 08-APR-2013 18:02
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-27-A
Misc Info : 680-88811-A-27-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	24.059	% 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	3.692	3.692	(1.000)	449687	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	319125	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	606447	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	75495	8.35216	733.2107
* 18 Chrysene-d12	240	7.656	7.656	(1.000)	643041	40.0000	
* 23 Perylene-d12	264	8.827	8.821	(1.000)	623490	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	12479	1.08042	94.8469
3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	5835	0.74214	65.1506
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	3696	0.52243	45.8628
5 Acenaphthylene	152	4.692	4.686	(0.983)	3308	0.25046	21.9869
9 Fluorene	166	5.115	5.115	(1.071)	2170	0.19898	17.4681(Q)
11 Phenanthrene	178	5.739	5.739	(1.003)	32735	1.85336	162.7004
12 Anthracene	178	5.768	5.768	(1.008)	6619	0.36968	32.4531
13 Carbazole	167	5.880	5.880	(1.028)	5263	0.34310	30.1193

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	69245	3.54992	311.6367
16 Pyrene	202	6.739	6.739	(0.880)	59938	3.36490	295.3940
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	42825	2.43409	213.6809
19 Chrysene	228	7.674	7.674	(1.002)	48644	2.65468	233.0463
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	62677	3.55582	312.1547(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	23849	1.39893	122.8073(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	34457	2.07635	182.2760
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	21552	1.36733	120.0335(M)
26 Benzo(g,h,i)perylene	276	10.303	10.297	(1.167)	26823	1.66736	146.3722

QC Flag Legend

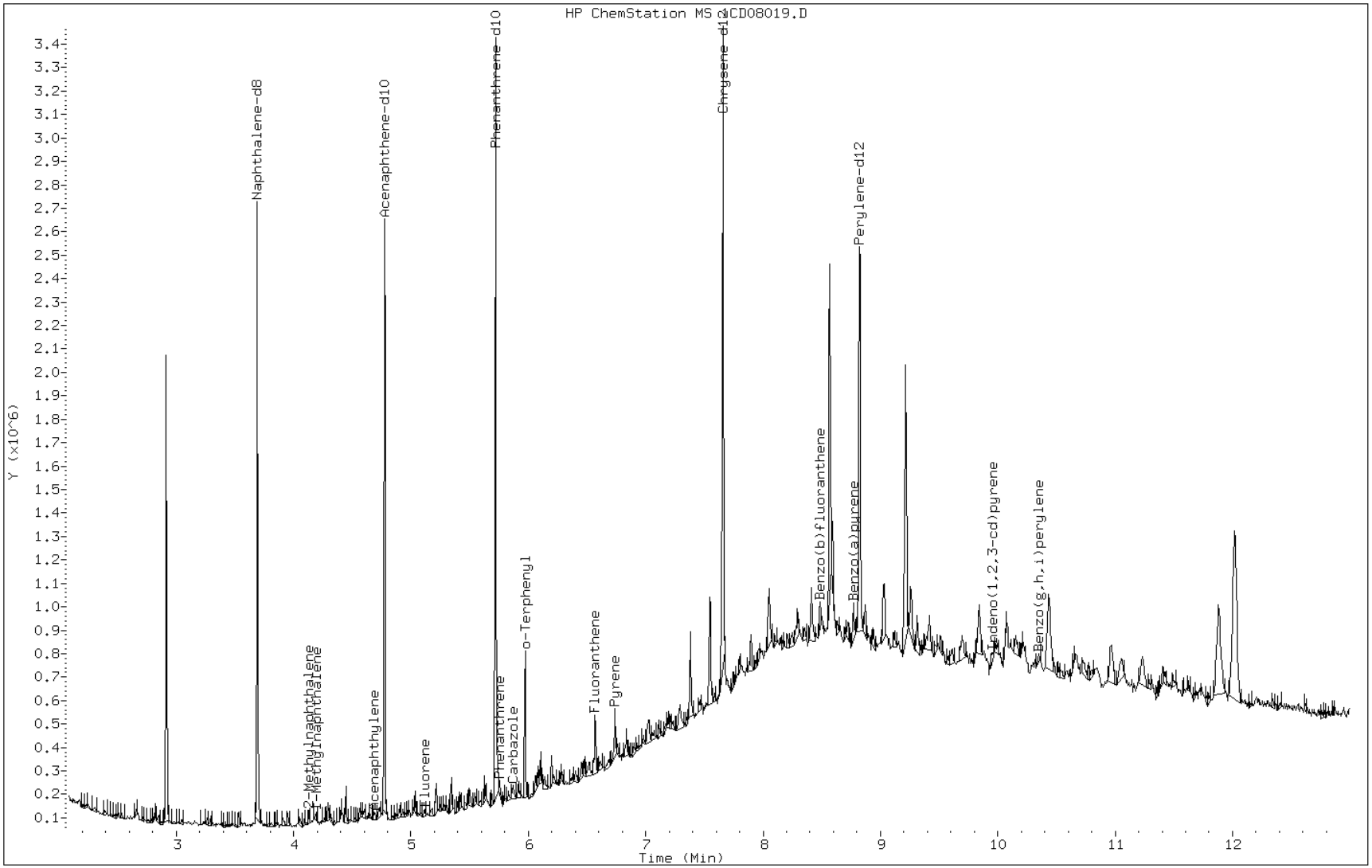
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP



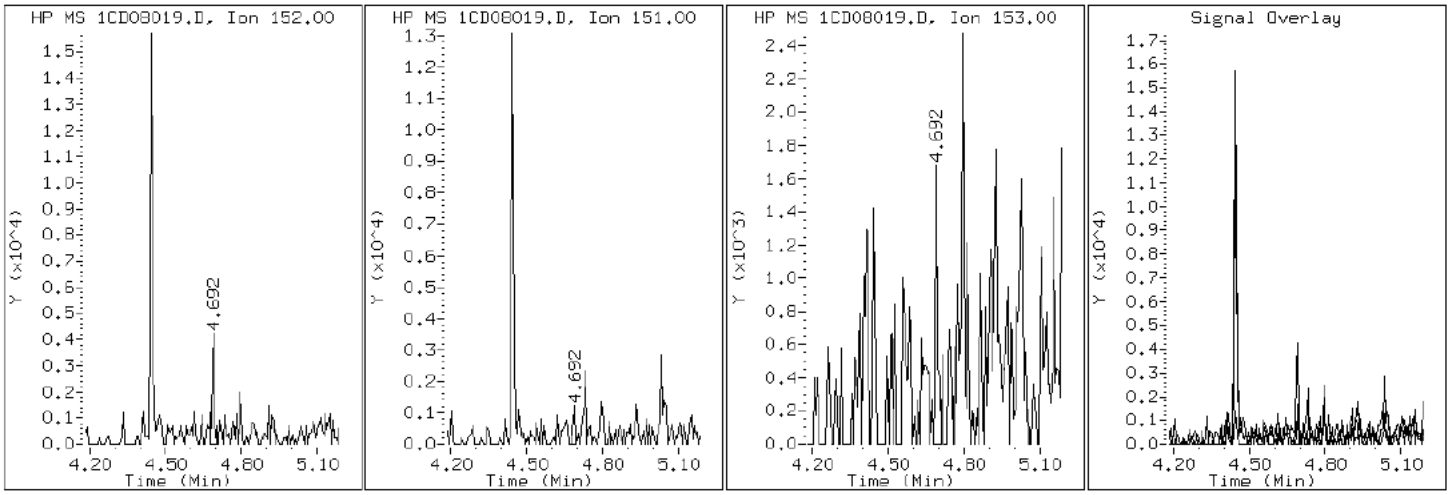
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

5 Acenaphthylene



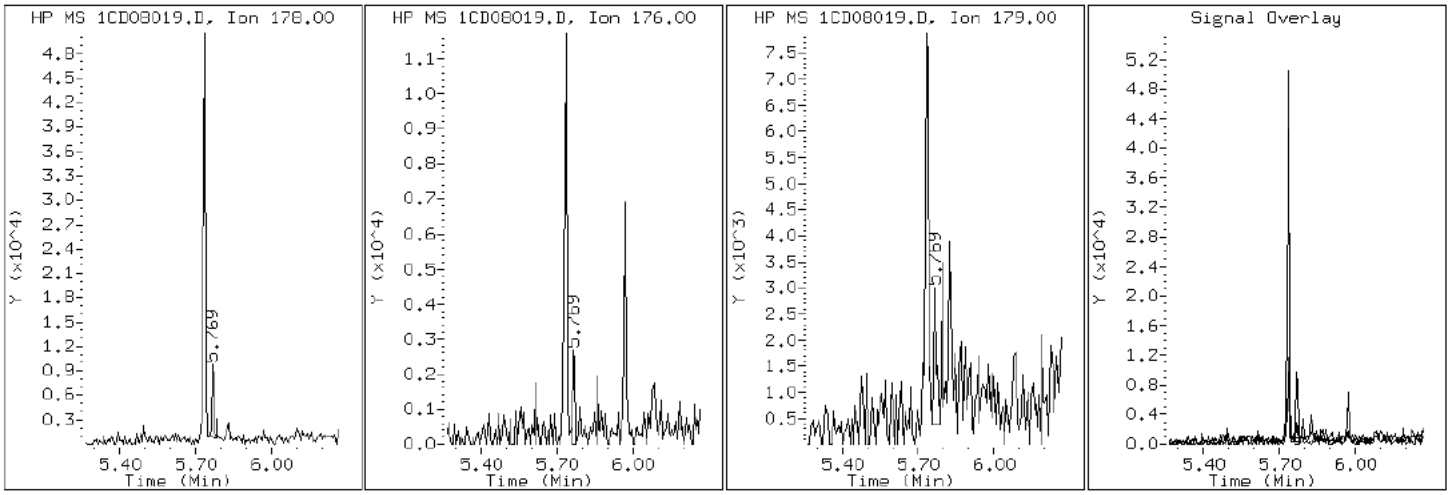
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

12 Anthracene



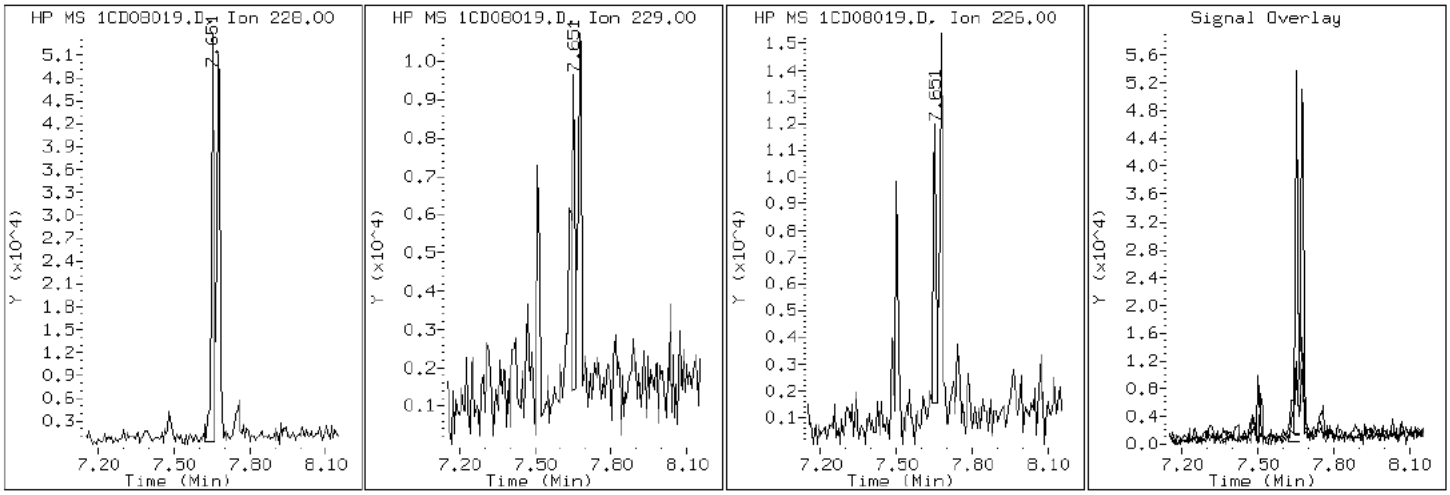
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

17 Benzo(a)anthracene



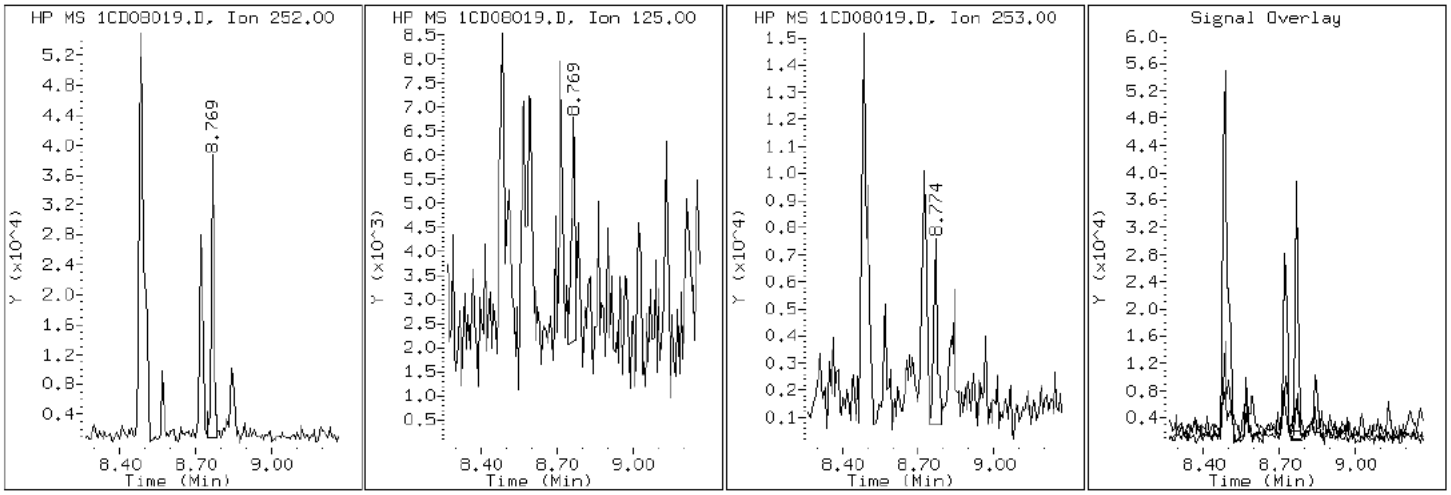
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

22 Benzo(a)pyrene



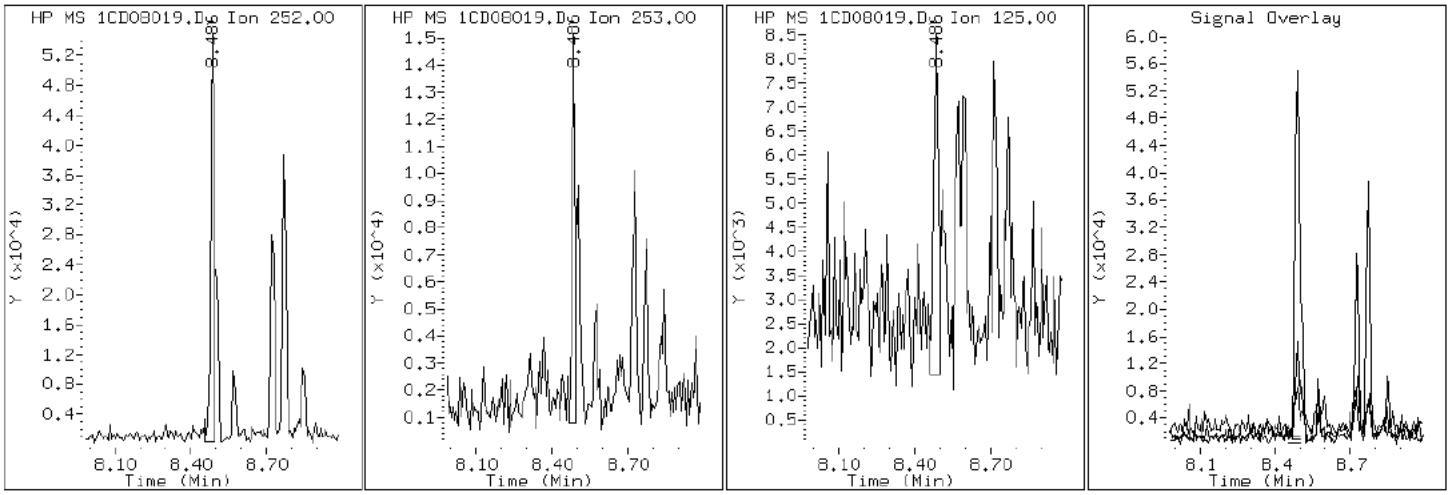
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

20 Benzo(b)fluoranthene



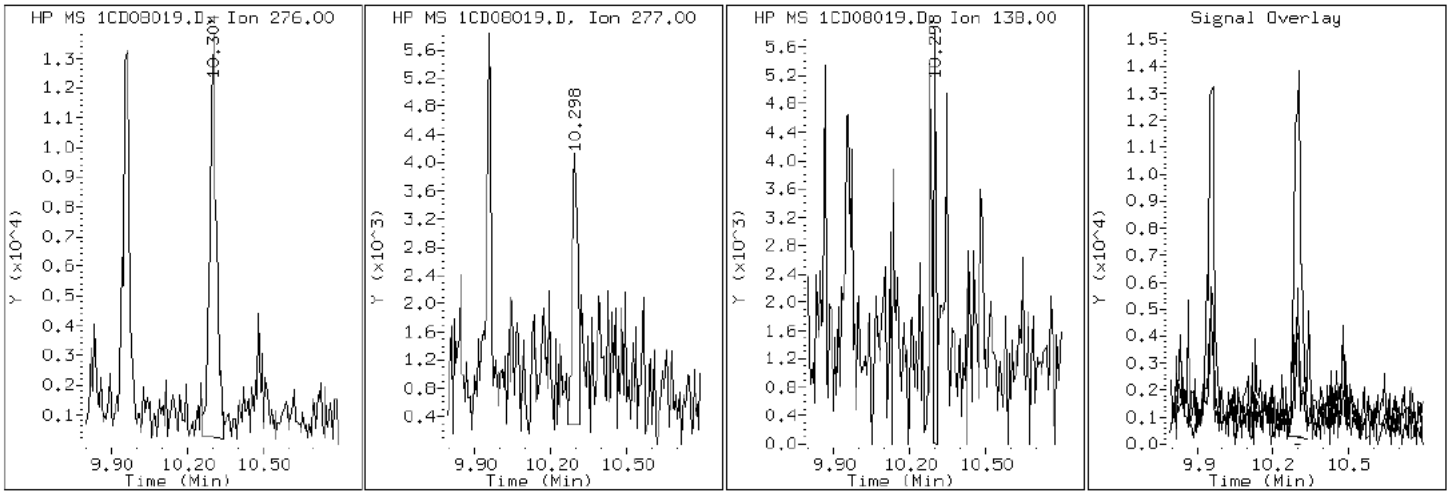
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

26 Benzo(g,h,i)perylene



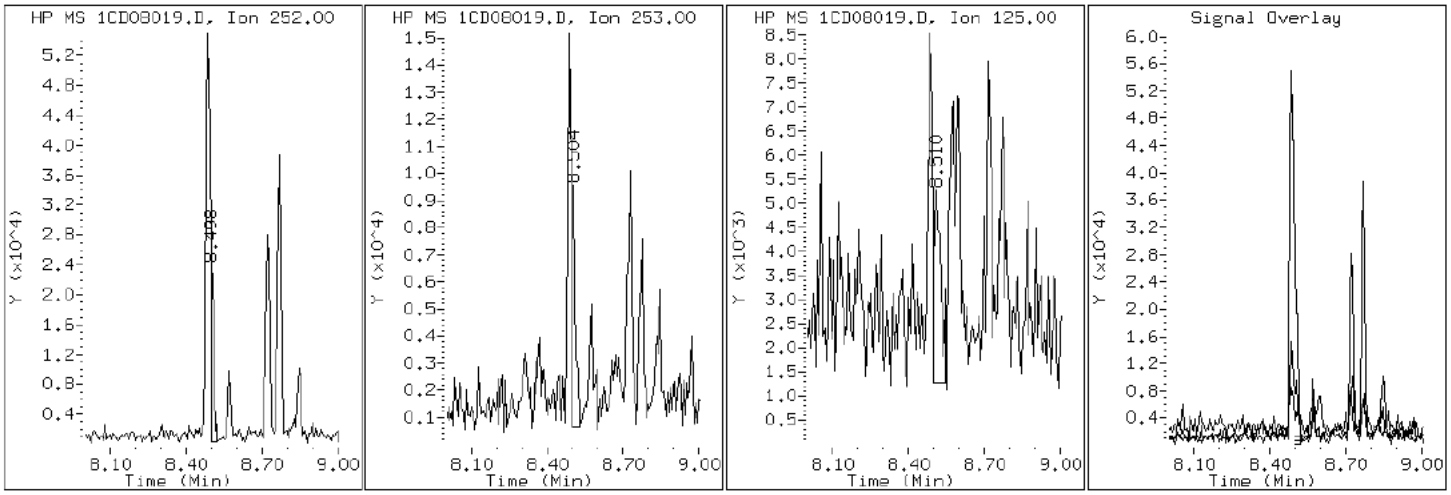
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

21 Benzo(k)fluoranthene



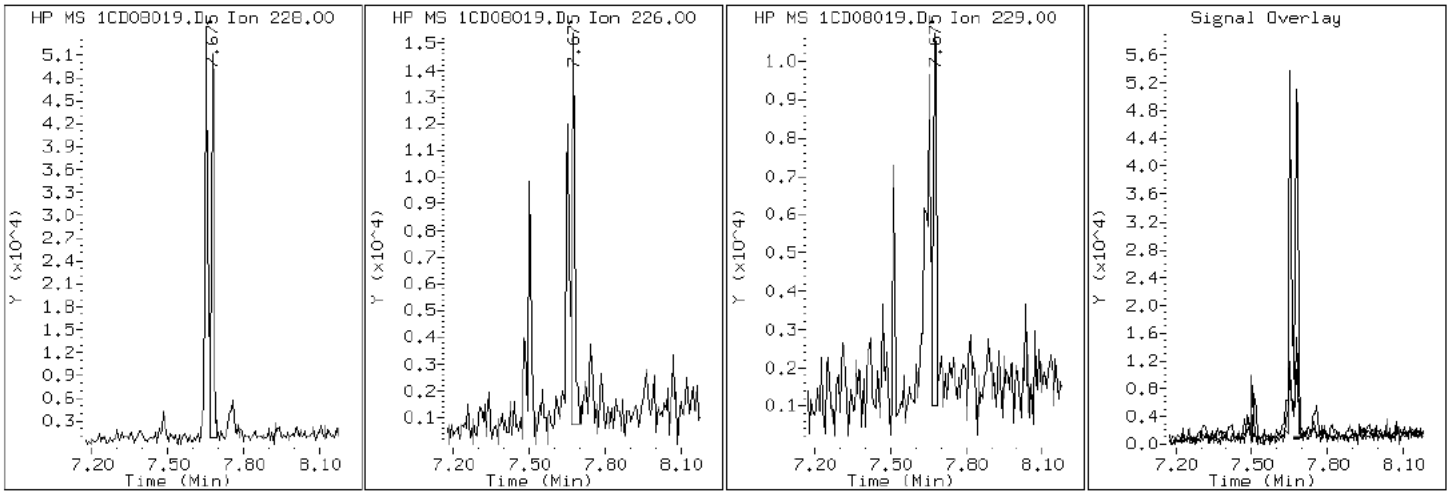
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

19 Chrysene



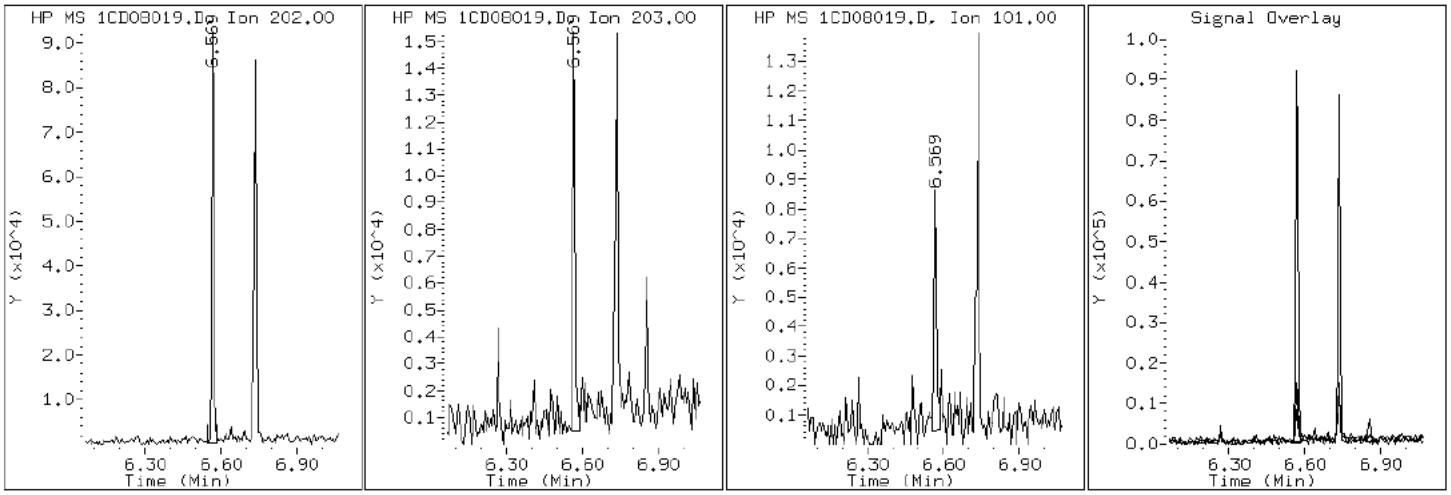
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

15 Fluoranthene



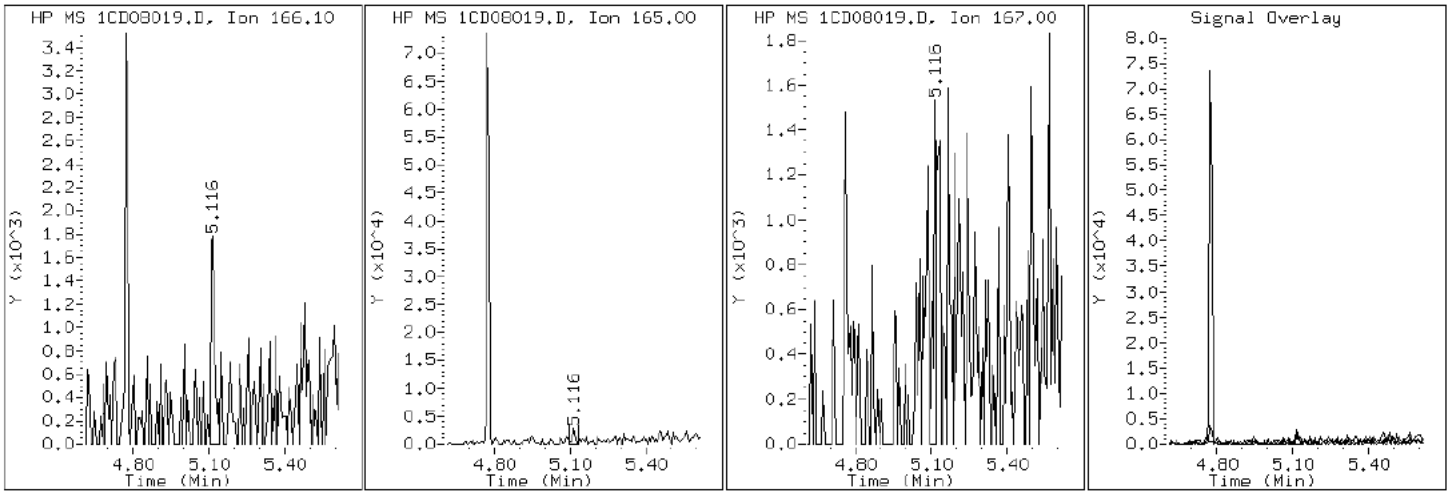
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

9 Fluorene



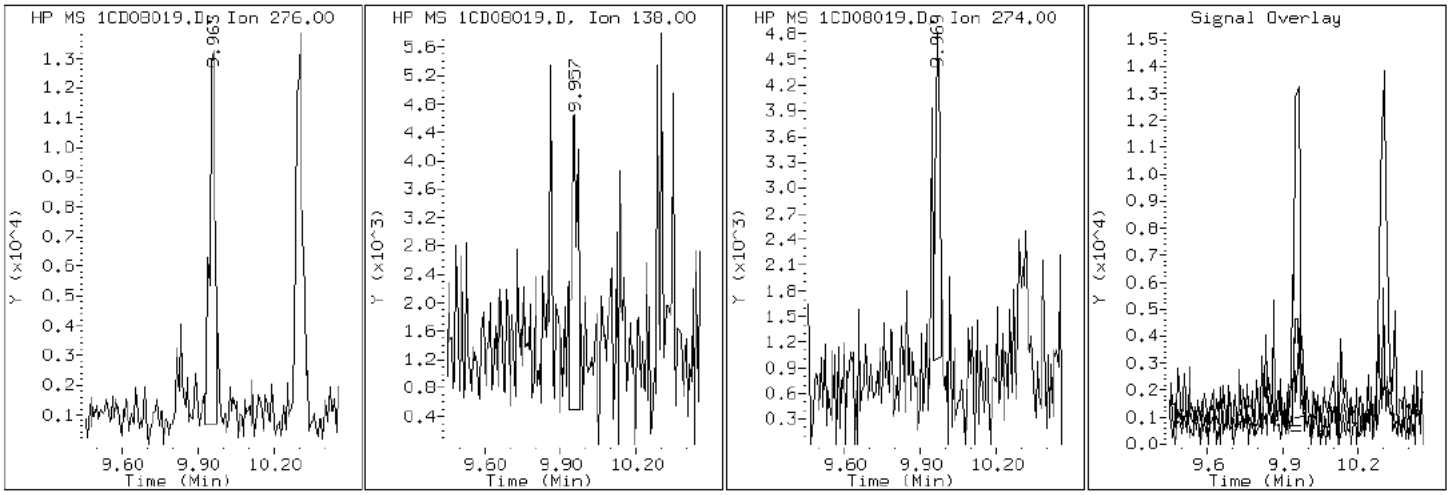
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

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



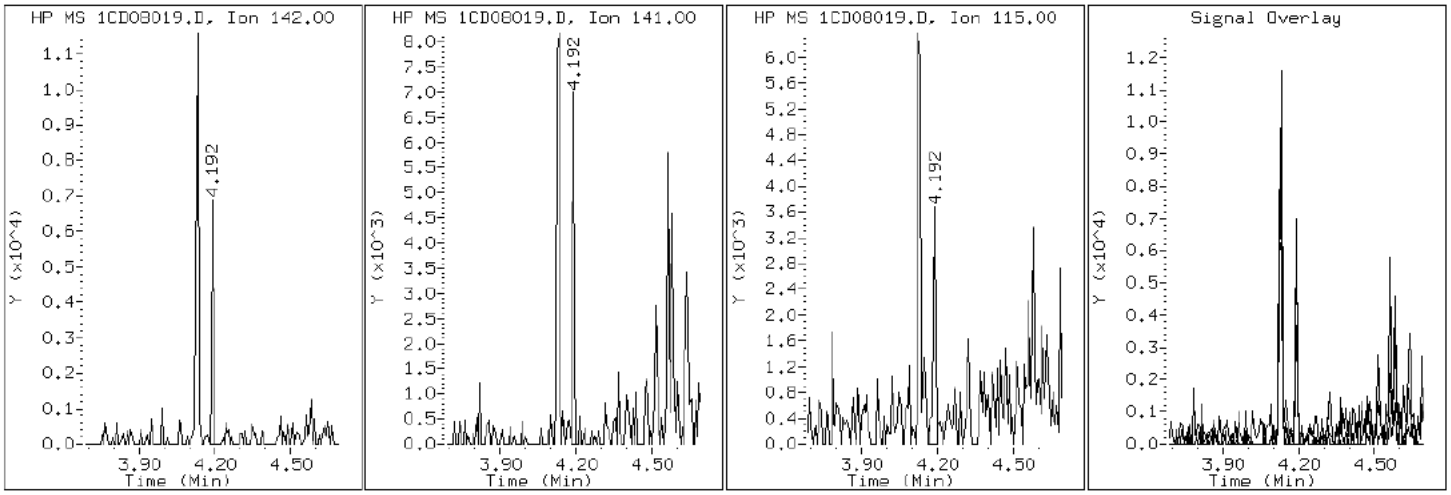
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

4 1-Methylnaphthalene



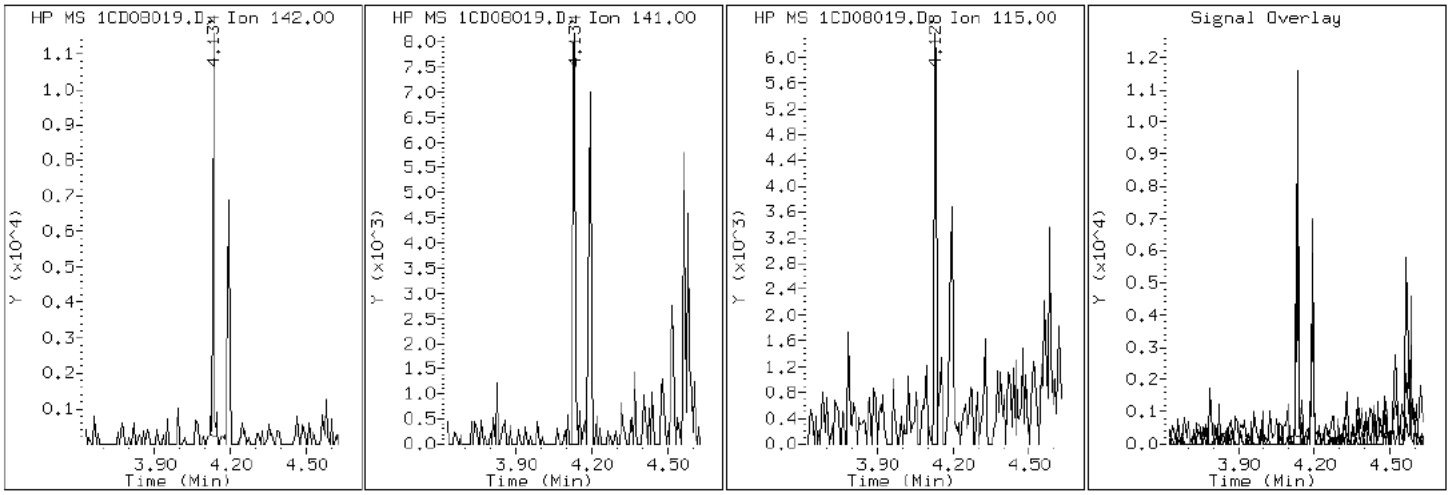
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

3 2-Methylnaphthalene



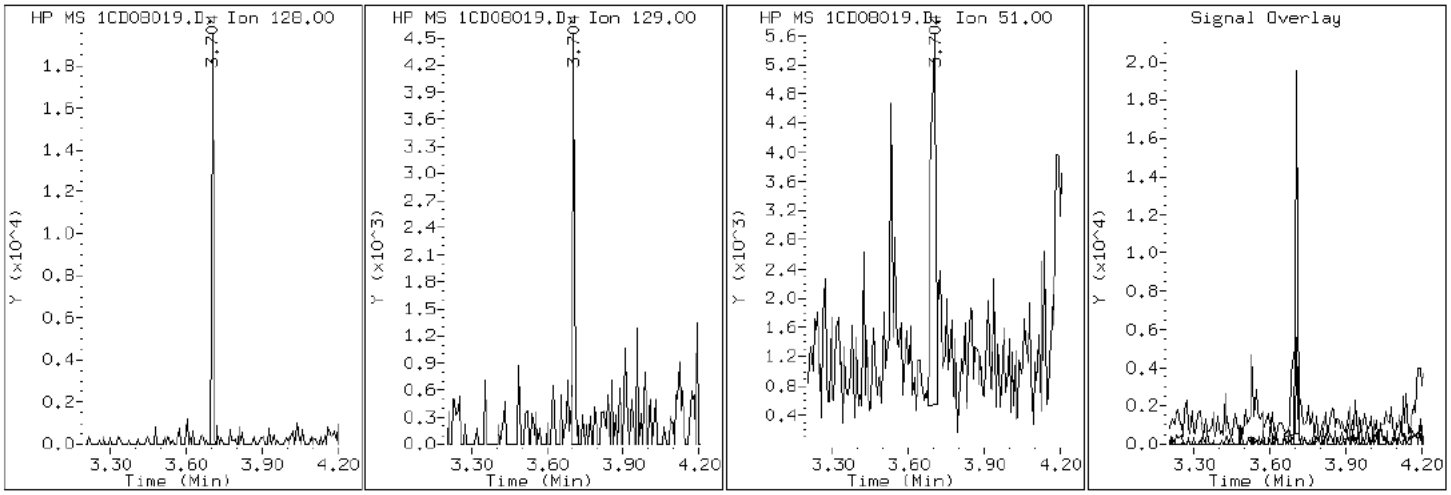
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

2 Naphthalene



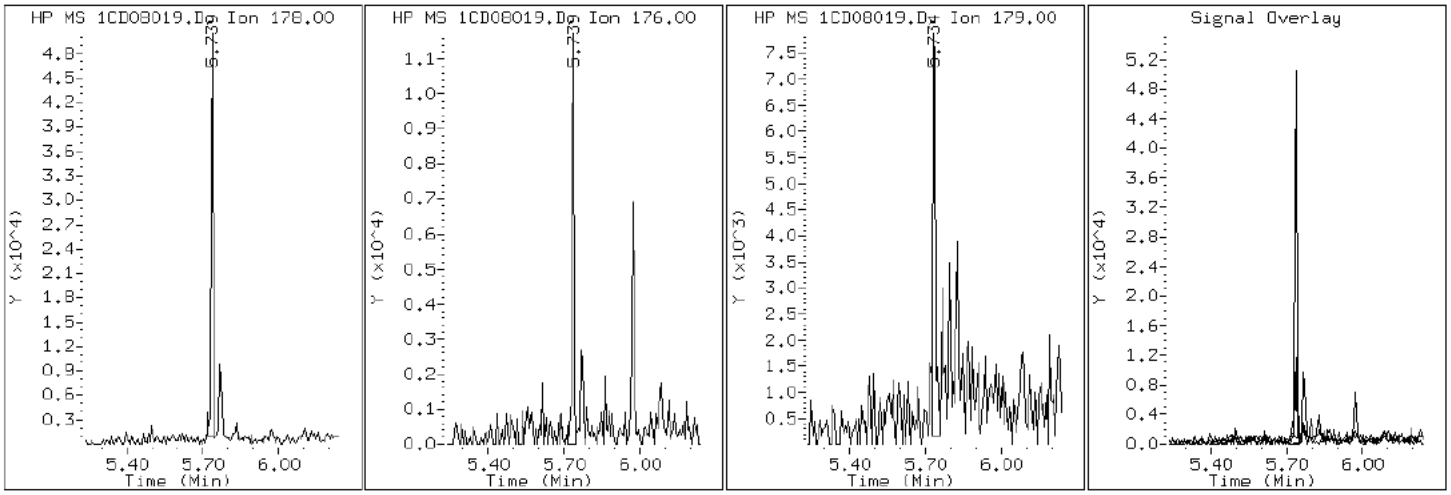
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

11 Phenanthrene



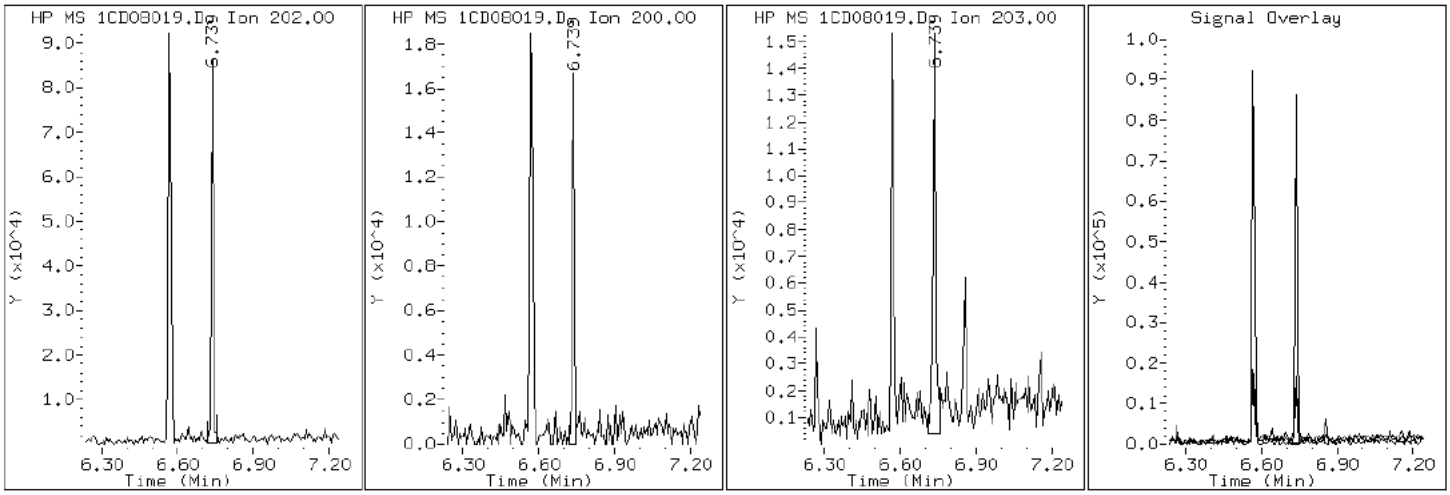
Data File: 1CD08019.D

Date: 08-APR-2013 18:02

Client ID: CV1366A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-27-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08019.D
Inj. Date and Time: 08-APR-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV1366A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

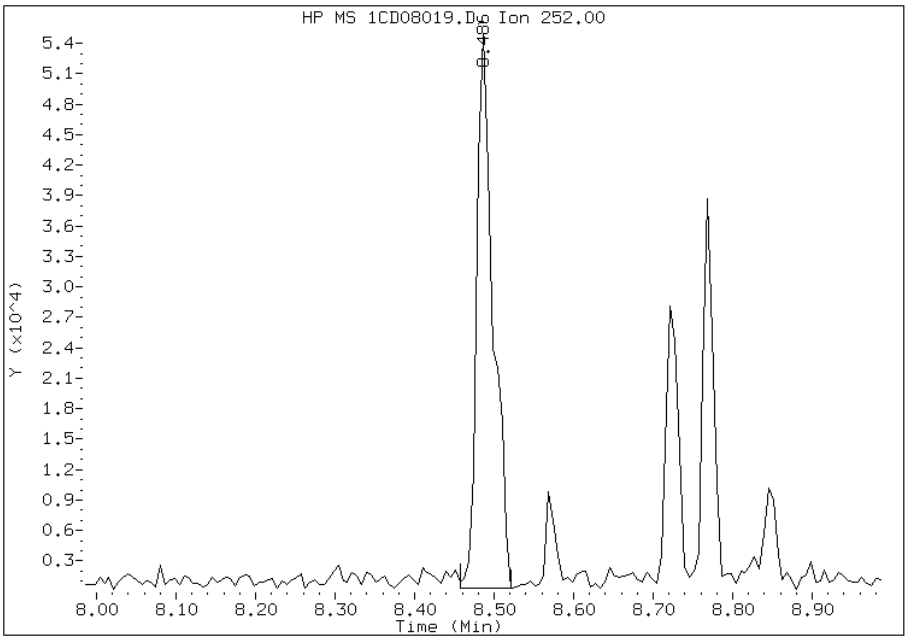
Processing Integration Results

RT: 8.49

Response: 78114

Amount: 4

Conc: 389



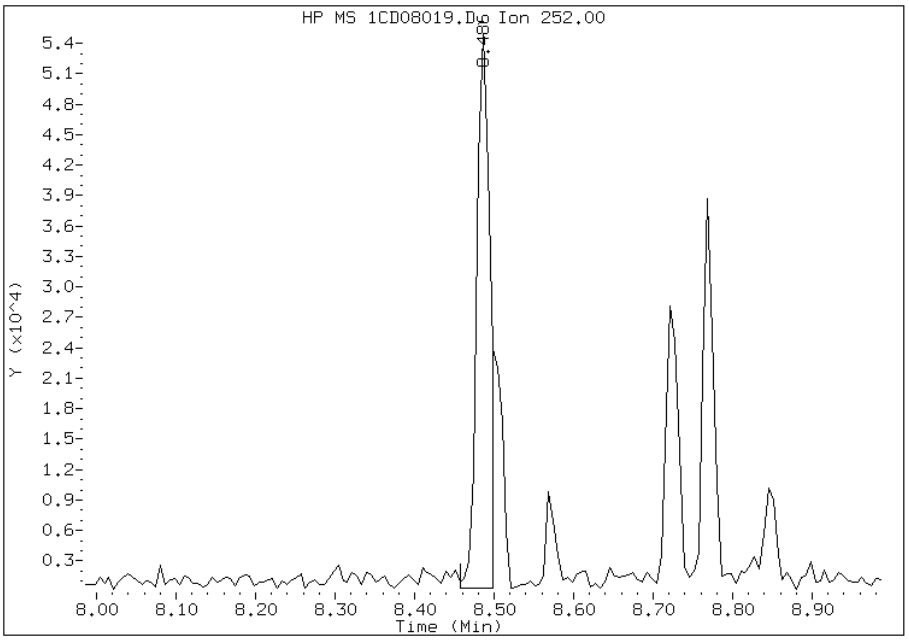
Manual Integration Results

RT: 8.49

Response: 62677

Amount: 4

Conc: 312



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08019.D
Inj. Date and Time: 08-APR-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV1366A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

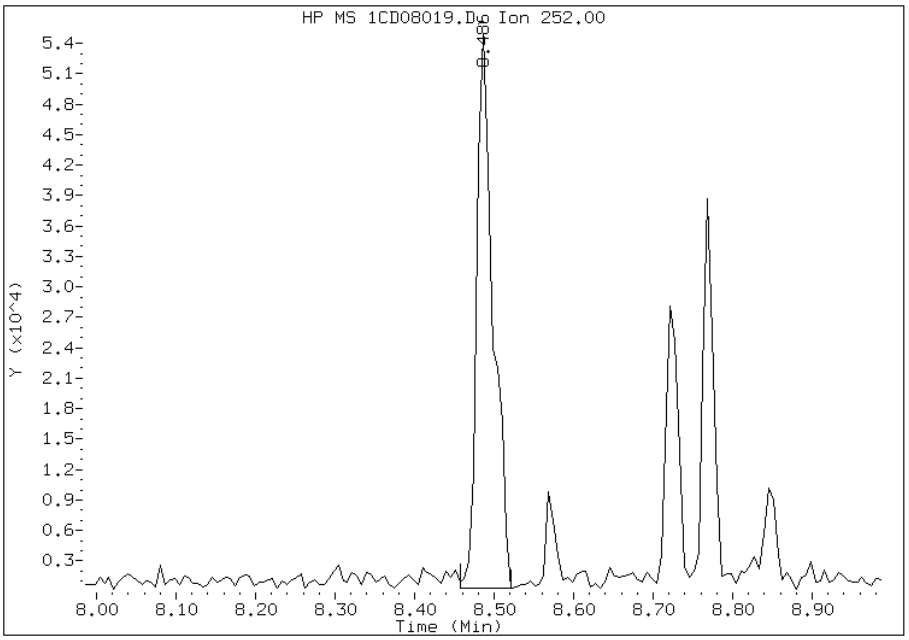
Processing Integration Results

RT: 8.49

Response: 78114

Amount: 5

Conc: 402



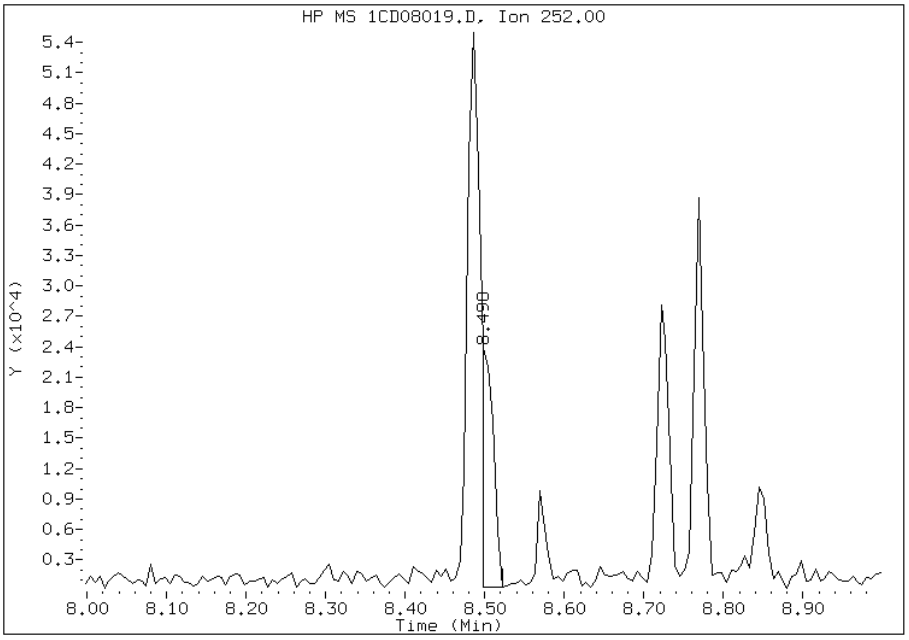
Manual Integration Results

RT: 8.50

Response: 23849

Amount: 1

Conc: 123



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08019.D
Inj. Date and Time: 08-APR-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV1366A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

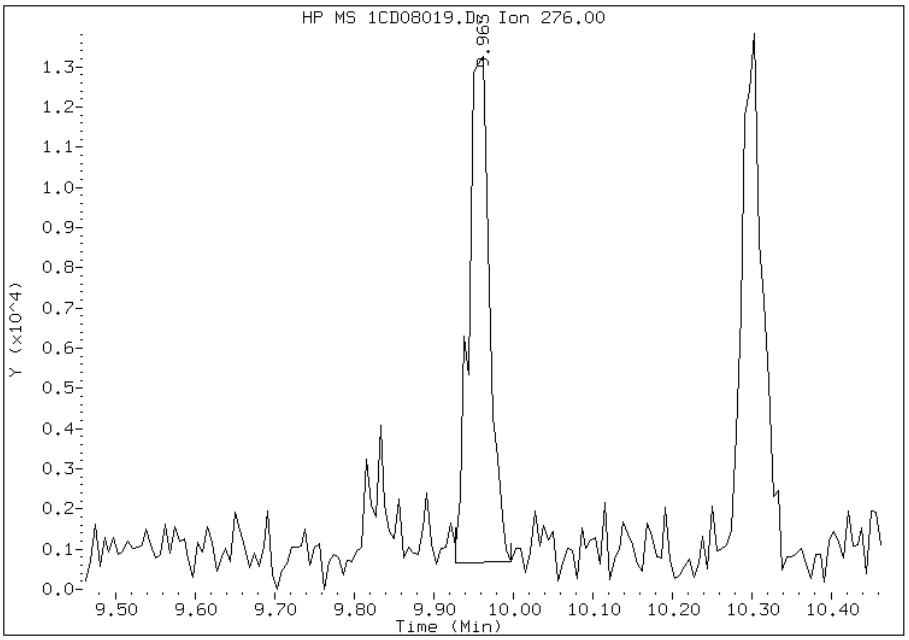
Processing Integration Results

RT: 9.96

Response: 22967

Amount: 1

Conc: 128



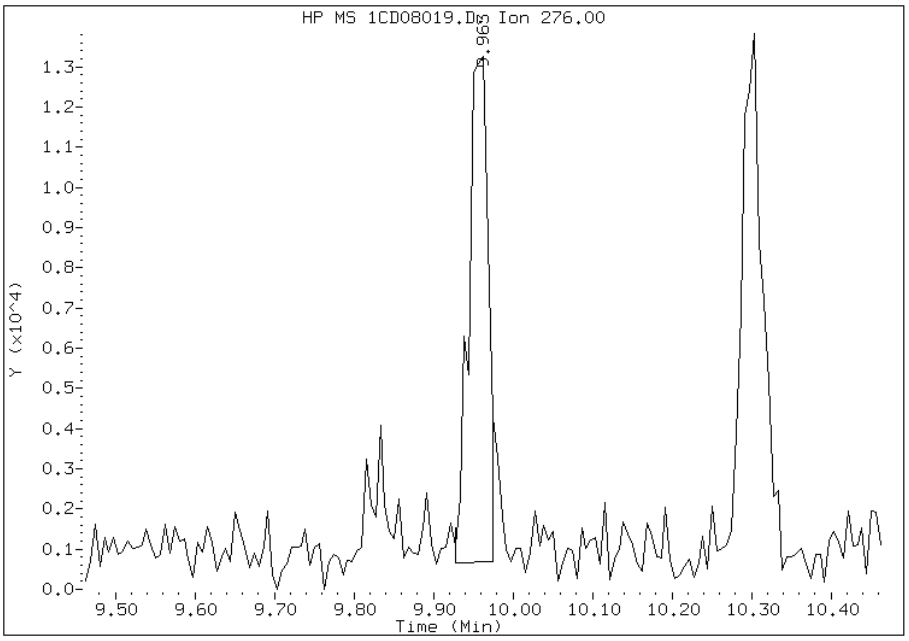
Manual Integration Results

RT: 9.96

Response: 21552

Amount: 1

Conc: 120



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1366B-CS | Lab Sample ID: 680-88811-28

Matrix: Solid | Lab File ID: 1CD08020.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 13:20

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/08/2013 18:20

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

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

% Moisture: 21.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	35	J	130	25
208-96-8	Acenaphthylene	32	J	51	6.4
120-12-7	Anthracene	70		11	5.3
56-55-3	Benzo[a]anthracene	300		10	5.0
50-32-8	Benzo[a]pyrene	260		13	6.6
205-99-2	Benzo[b]fluoranthene	430		16	7.8
191-24-2	Benzo[g,h,i]perylene	190		25	5.6
207-08-9	Benzo[k]fluoranthene	190		10	4.6
218-01-9	Chrysene	310		11	5.7
53-70-3	Dibenz(a,h)anthracene	57		25	5.2
206-44-0	Fluoranthene	470		25	5.1
86-73-7	Fluorene	48		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	170		25	9.0
90-12-0	1-Methylnaphthalene	96		51	5.6
91-57-6	2-Methylnaphthalene	150		51	9.0
91-20-3	Naphthalene	110		51	5.6
85-01-8	Phenanthrene	350		10	5.0
129-00-0	Pyrene	440		25	4.7

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\1C040813.b\1CD08020.D
Lab Smp Id: 680-88811-A-28-A Client Smp ID: CV1366B-CS
Inj Date : 08-APR-2013 18:20
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-28-A
Misc Info : 680-88811-A-28-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	14.950	Weight Extracted
M	21.158	% 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	3.692	3.692	(1.000)	490605	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	342078	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	661406	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	63708	6.62660	562.2022
*	18 Chrysene-d12	240	7.657	7.656	(1.000)	686772	40.0000	
*	23 Perylene-d12	264	8.821	8.821	(1.000)	652396	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	16685	1.32409	112.3363
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	14695	1.71315	145.3441
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	8746	1.13315	96.1366
	5 Acenaphthylene	152	4.692	4.686	(0.983)	5316	0.37548	31.8560
	7 Acenaphthene	154	4.798	4.798	(1.005)	3624	0.41328	35.0627
	9 Fluorene	166	5.116	5.115	(1.071)	6581	0.56297	47.7625
	11 Phenanthrene	178	5.739	5.739	(1.003)	80307	4.16893	353.6930
	12 Anthracene	178	5.768	5.768	(1.008)	16211	0.83017	70.4321

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	11433	0.68339	57.9788
15 Fluoranthene	202	6.568	6.568	(1.148)	117965	5.54508	470.4462
16 Pyrene	202	6.739	6.739	(0.880)	99319	5.22069	442.9246
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	67810	3.54331	300.6151
19 Chrysene	228	7.674	7.674	(1.002)	72412	3.70015	313.9218
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	94138	5.10405	433.0287(M)
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.964)	39243	2.19991	186.6408(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	53560	3.08447	261.6873
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	33569	2.03536	172.6806(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	10175	0.66785	56.6602
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	37920	2.25272	191.1216

QC Flag Legend

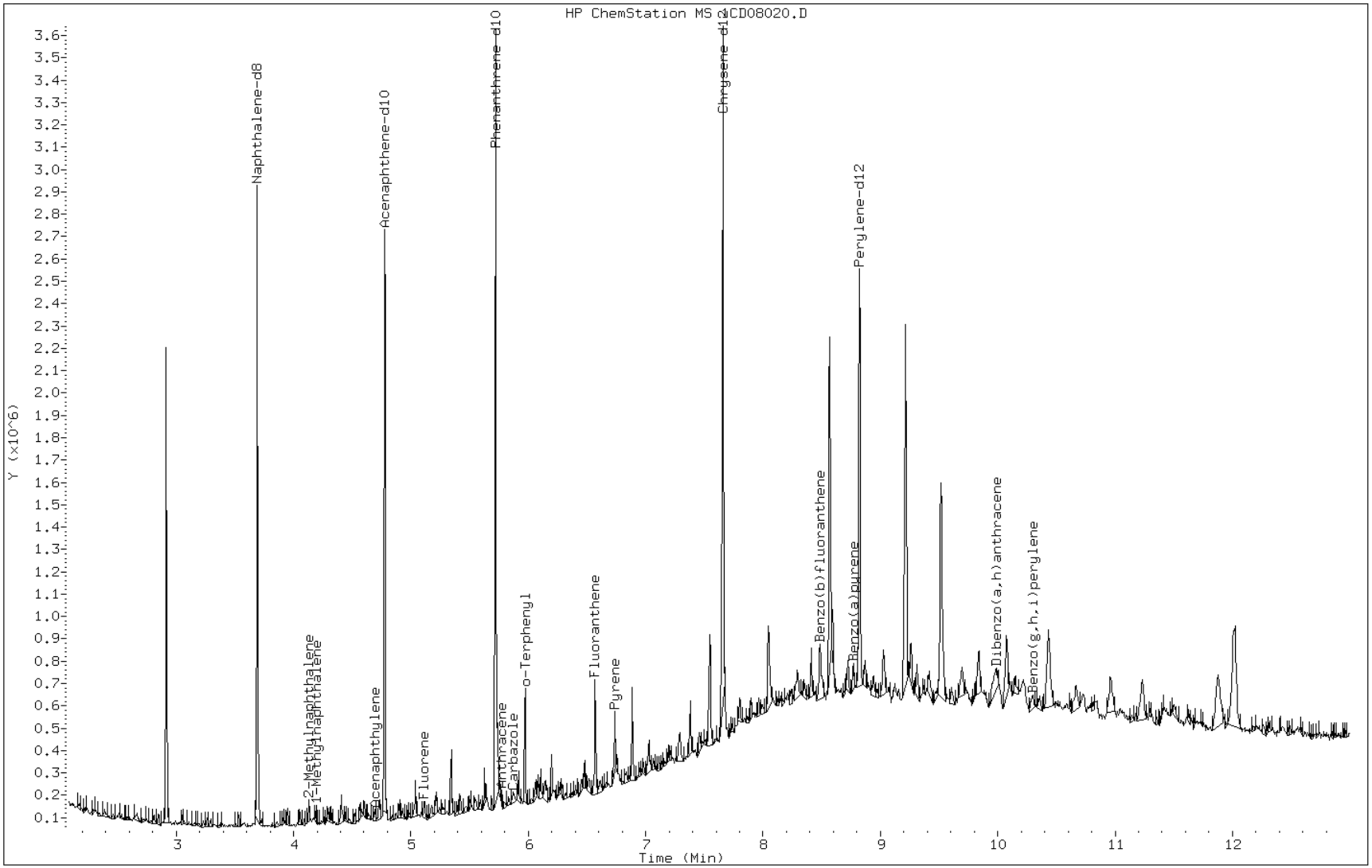
M - Compound response manually integrated.

Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP



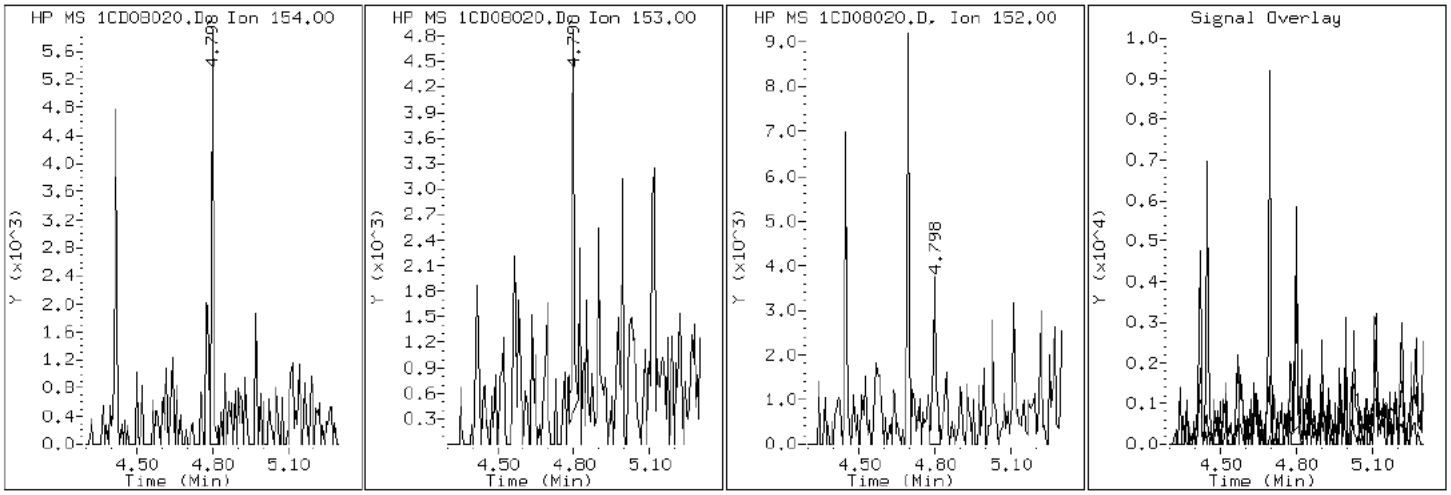
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

7 Acenaphthene



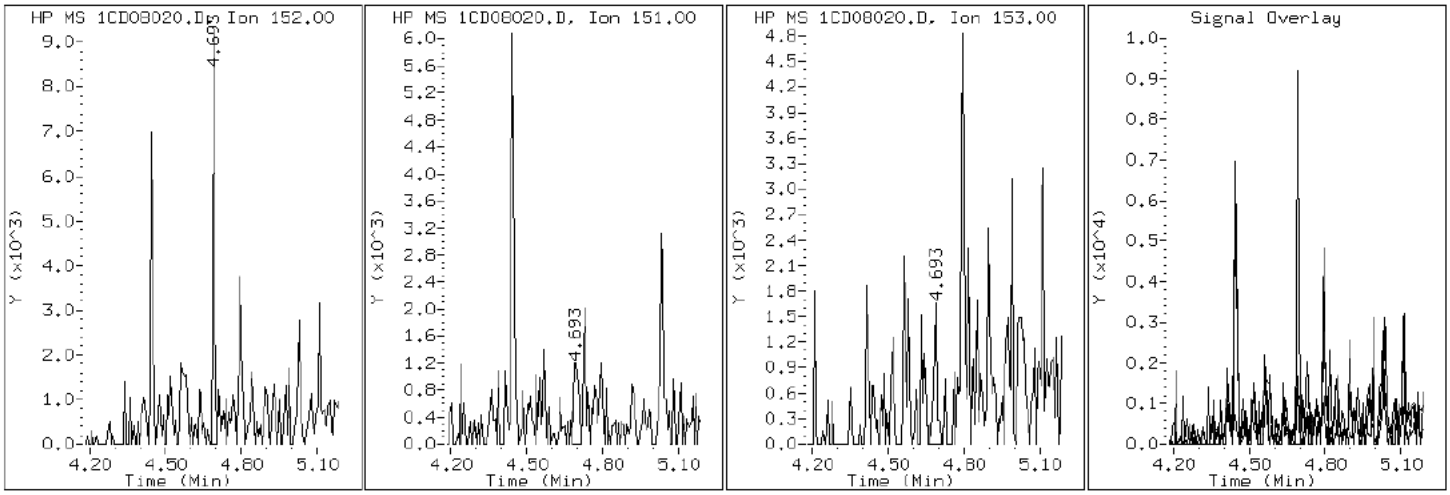
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

5 Acenaphthylene



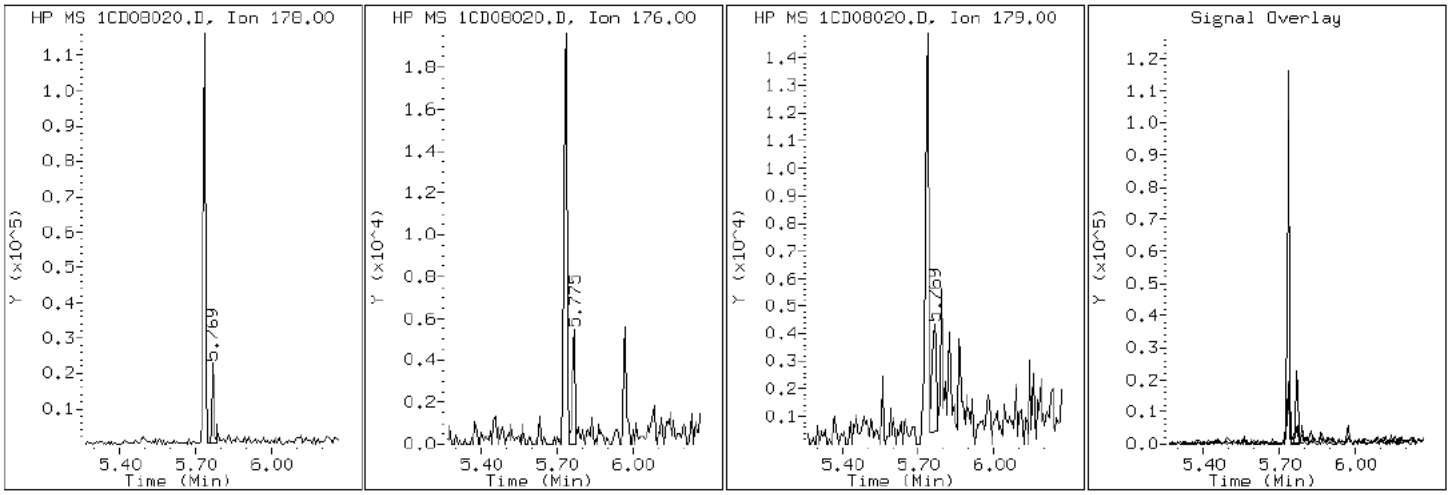
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

12 Anthracene



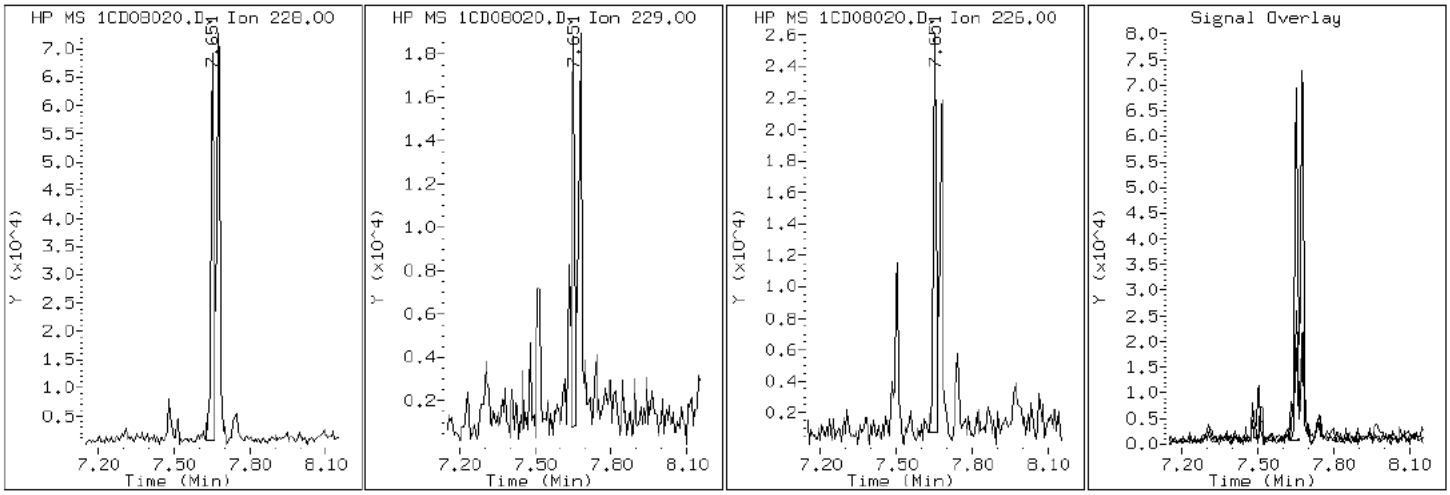
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

17 Benzo(a)anthracene



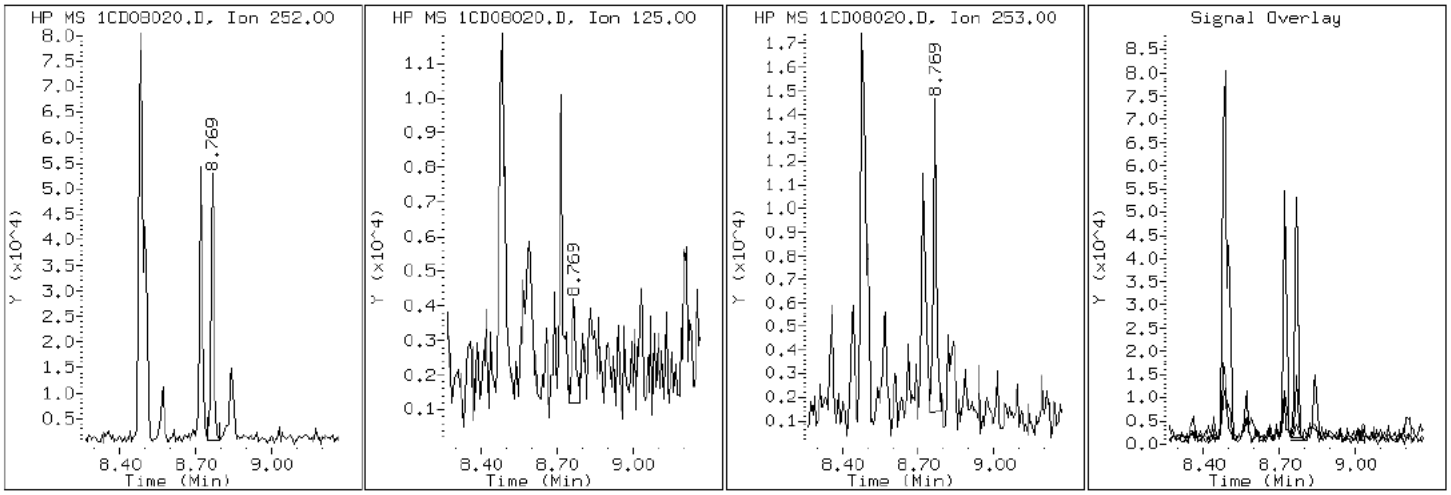
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

22 Benzo(a)pyrene



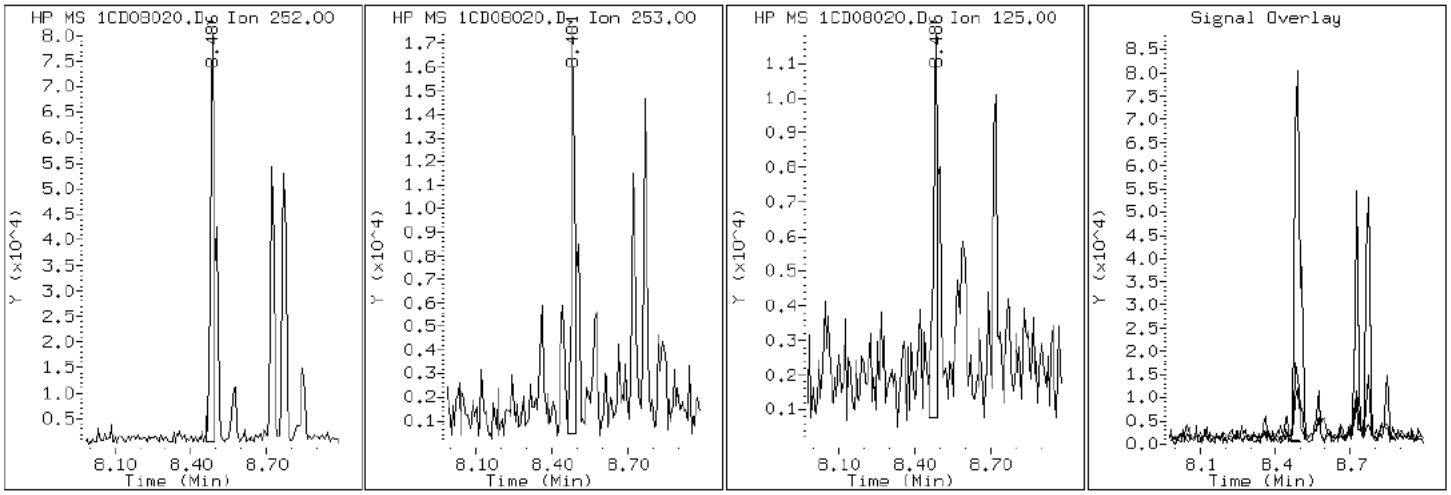
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

20 Benzo(b)fluoranthene



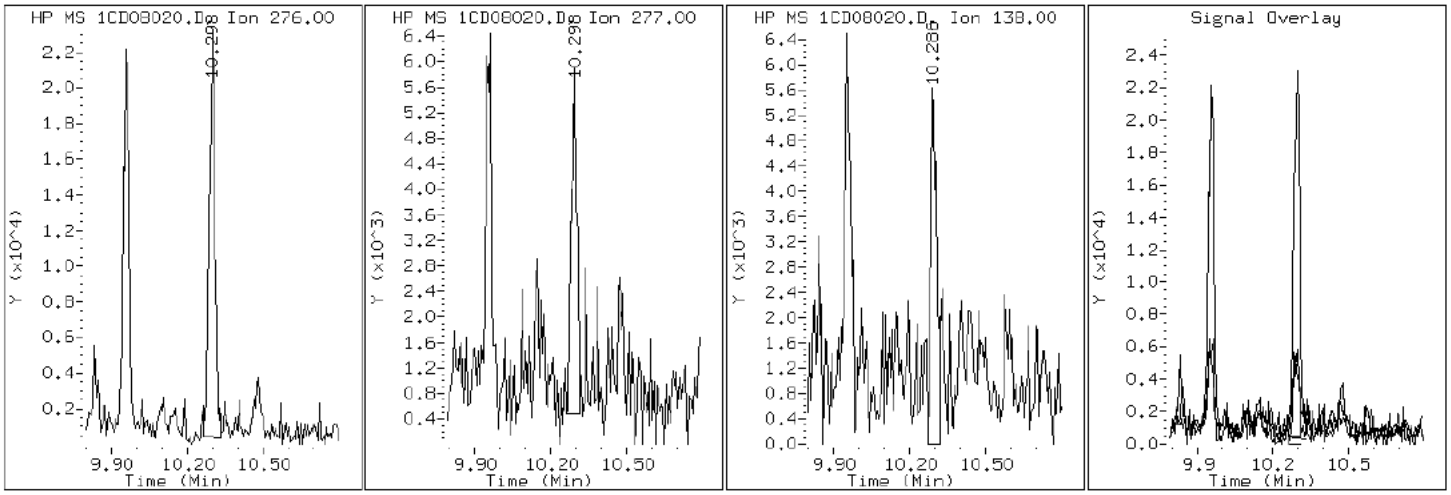
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

26 Benzo(g,h,i)perylene



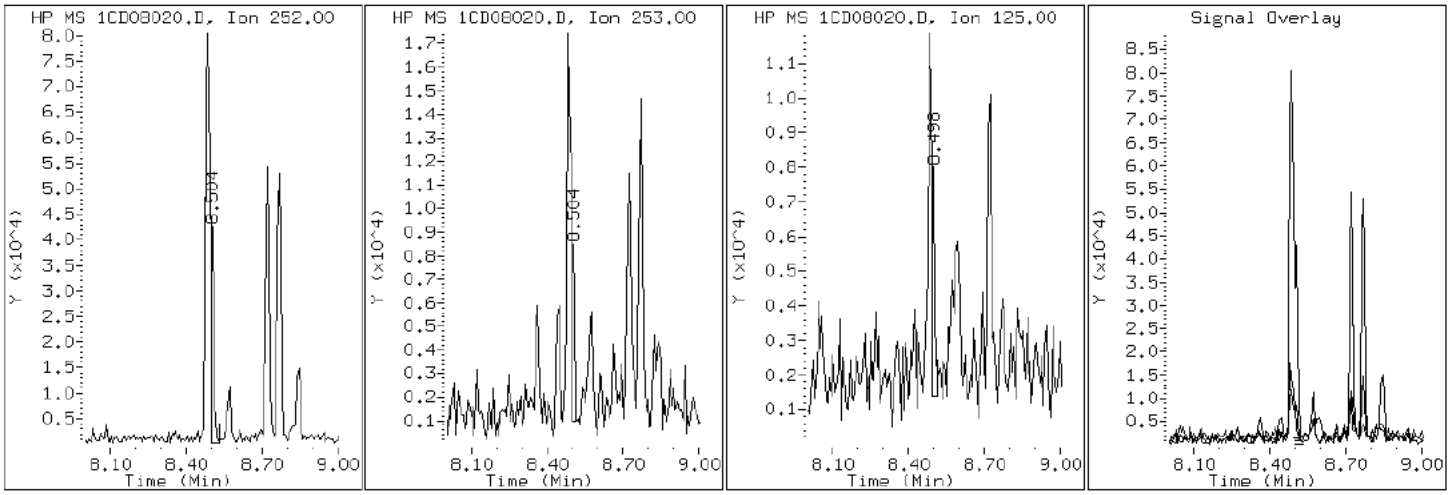
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

21 Benzo(k)fluoranthene



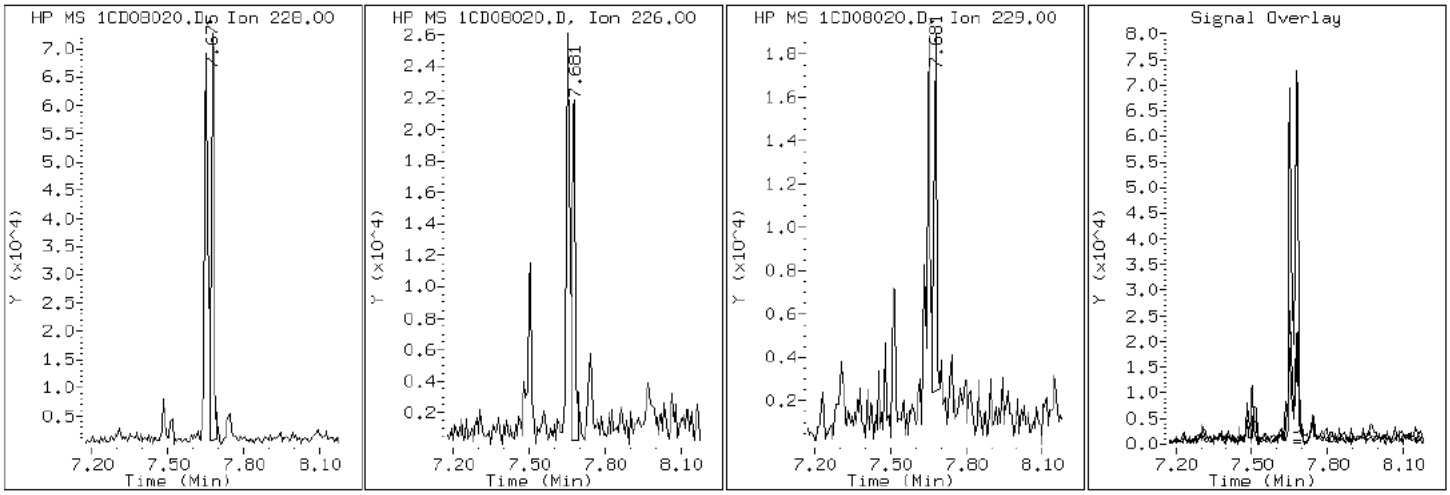
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

19 Chrysene



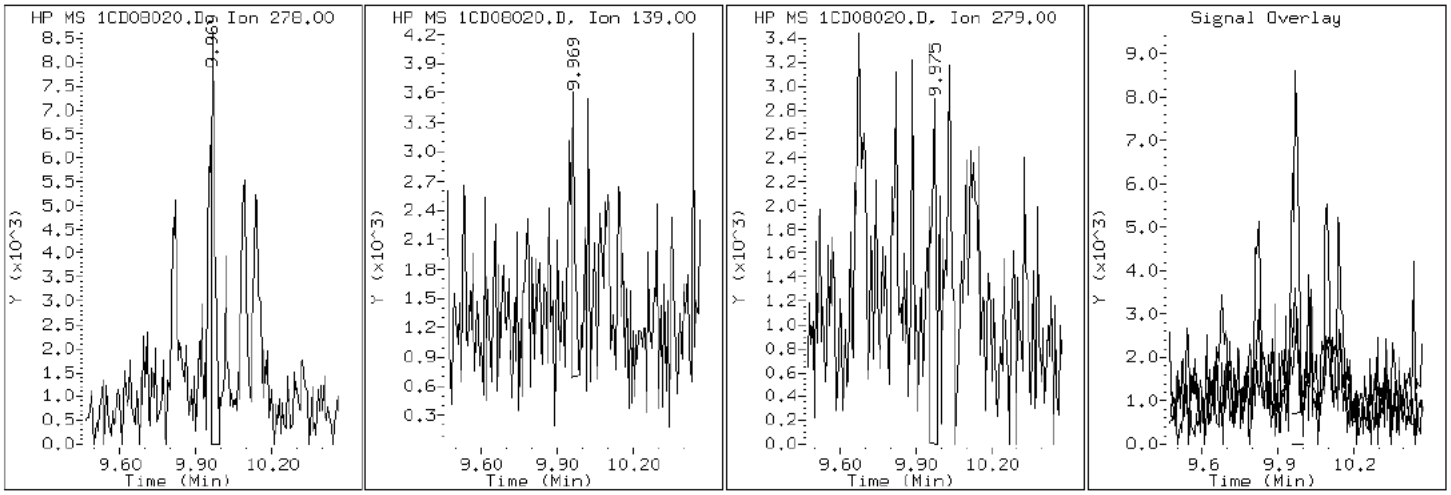
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

25 Dibenzo(a,h)anthracene



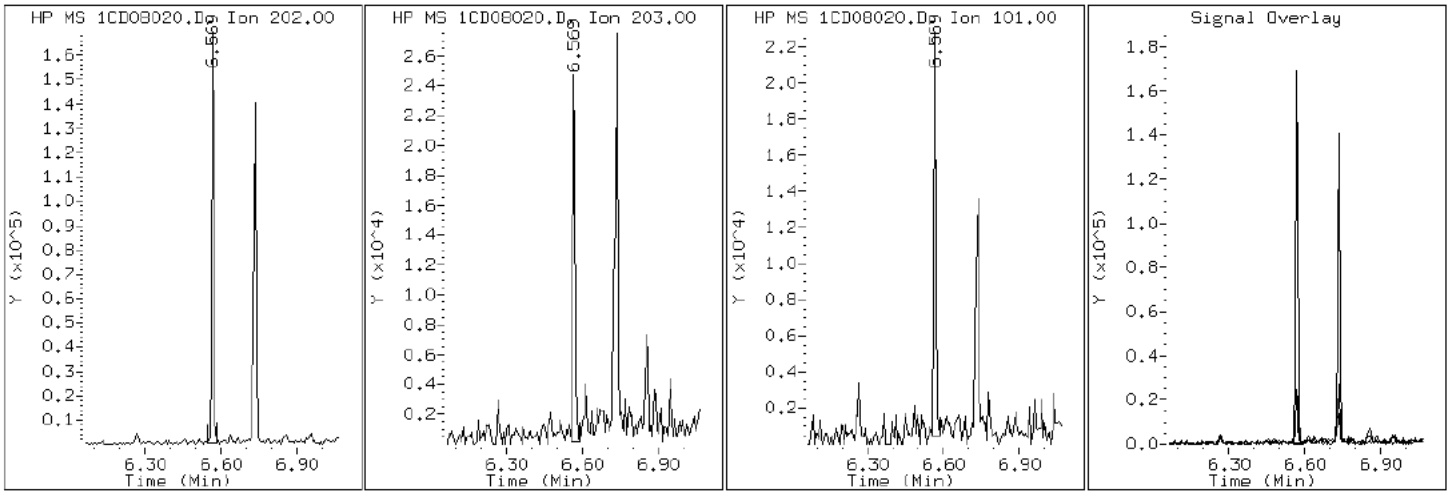
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

15 Fluoranthene



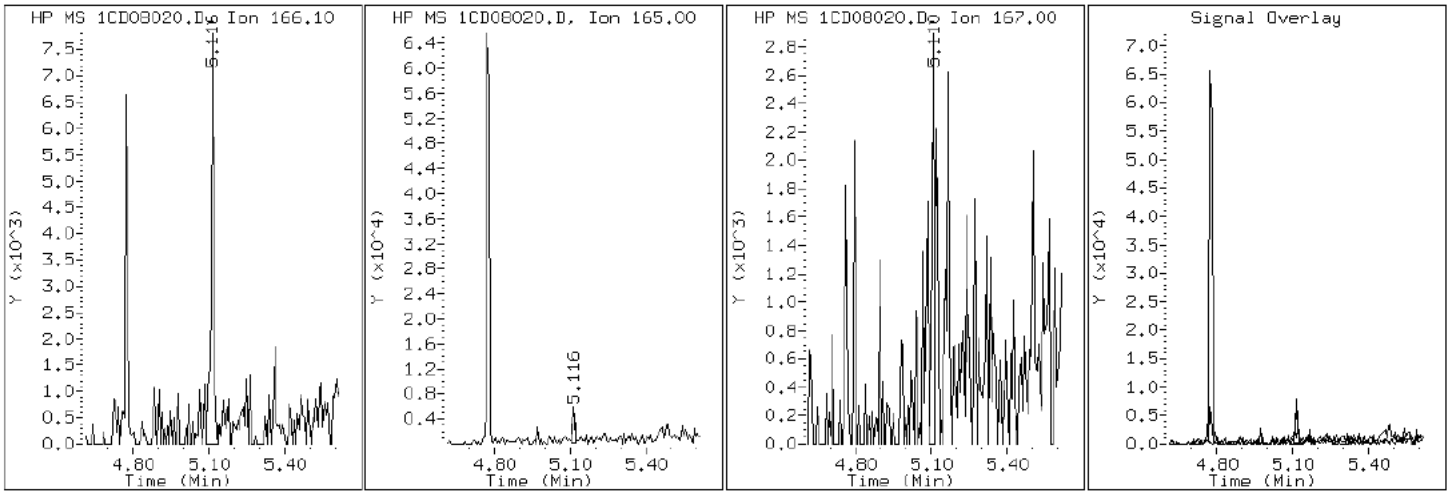
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

9 Fluorene



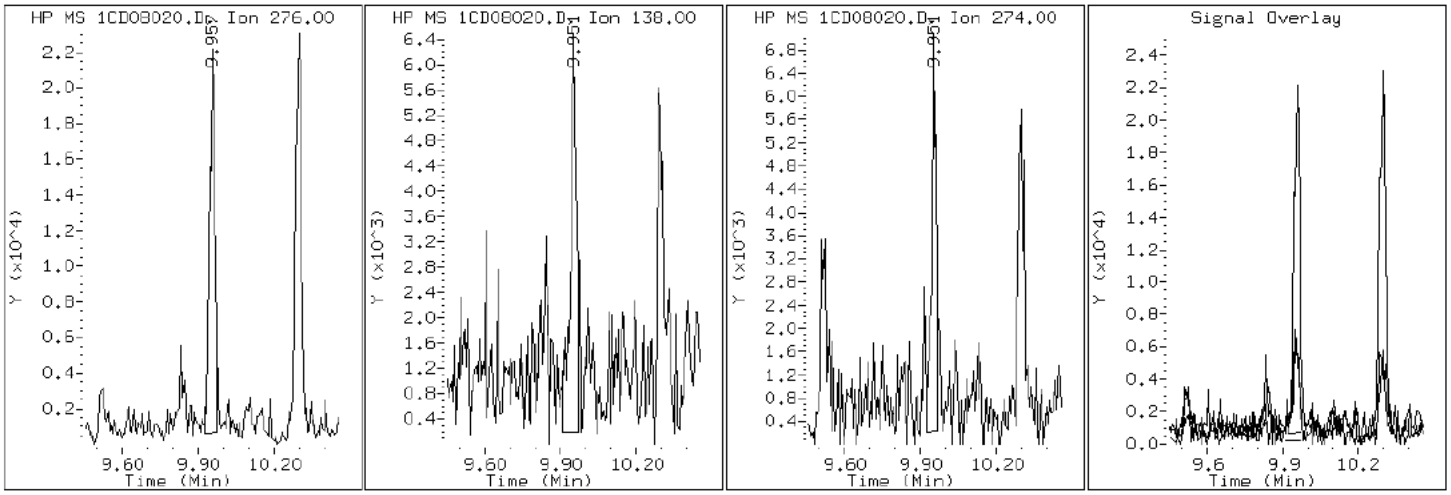
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

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



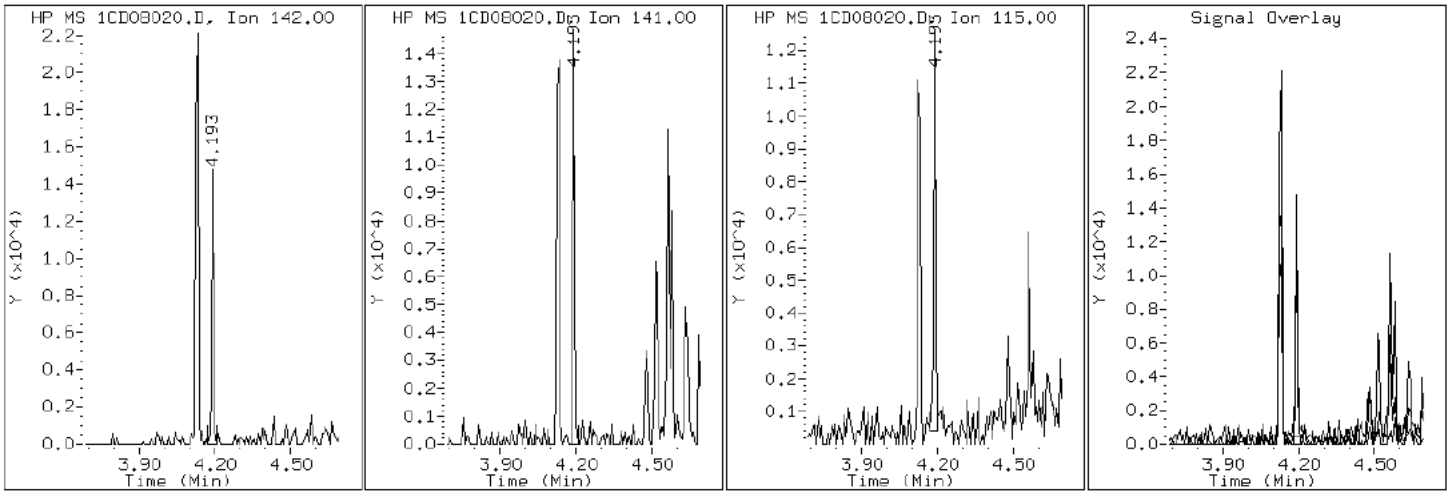
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

4 1-Methylnaphthalene



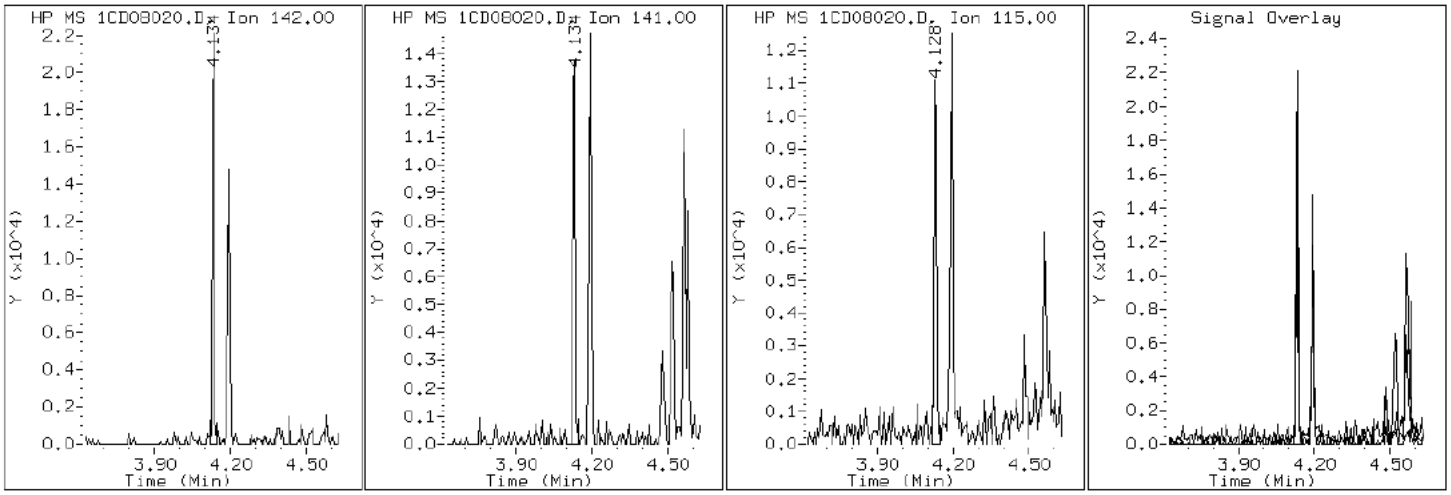
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

3 2-Methylnaphthalene



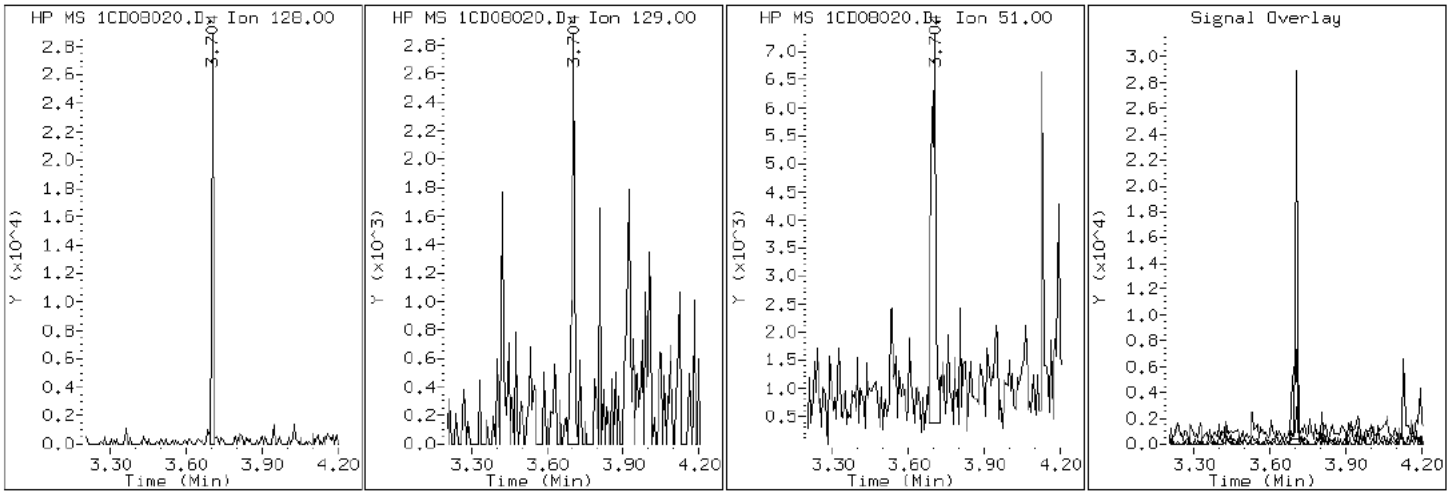
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

2 Naphthalene



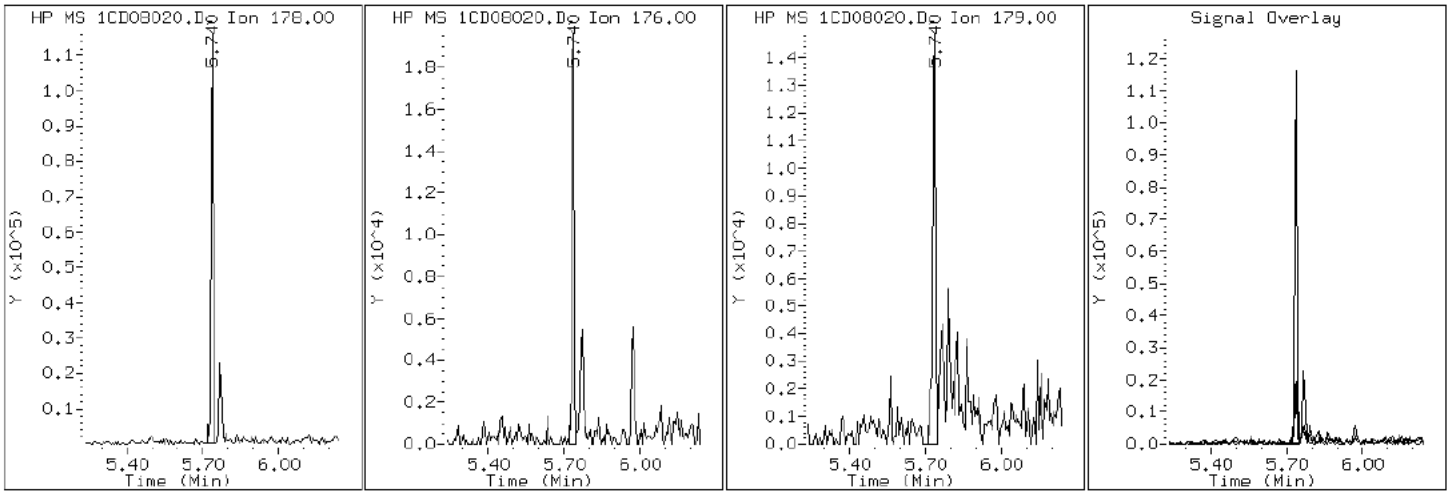
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

11 Phenanthrene



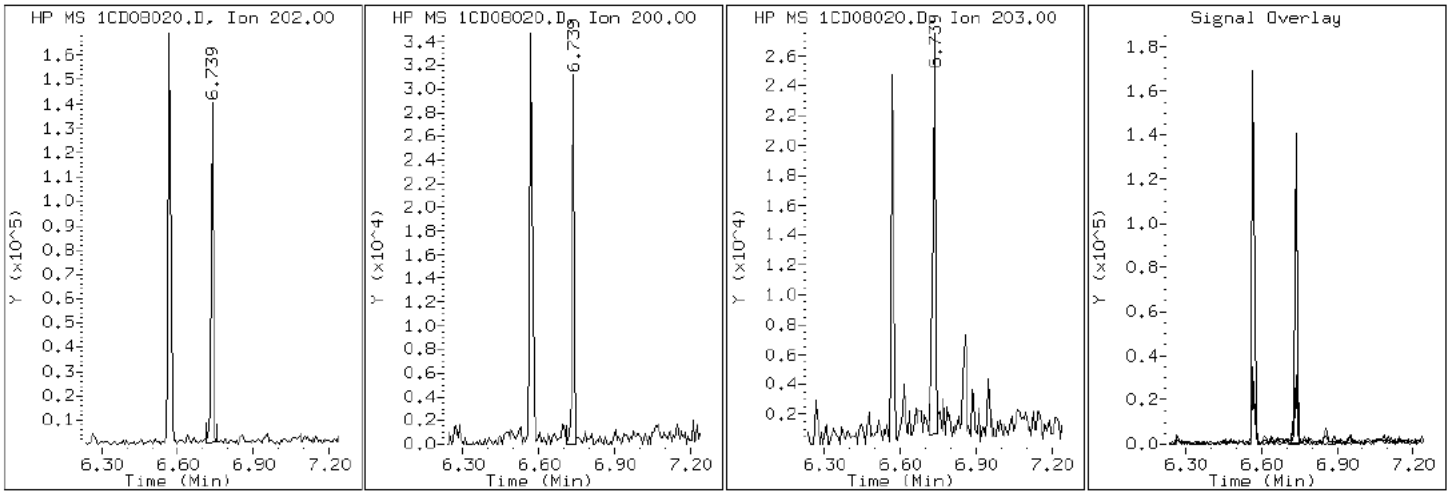
Data File: 1CD08020.D

Date: 08-APR-2013 18:20

Client ID: CV1366B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-28-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08020.D
Inj. Date and Time: 08-APR-2013 18:20
Instrument ID: BSMC5973.i
Client ID: CV1366B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

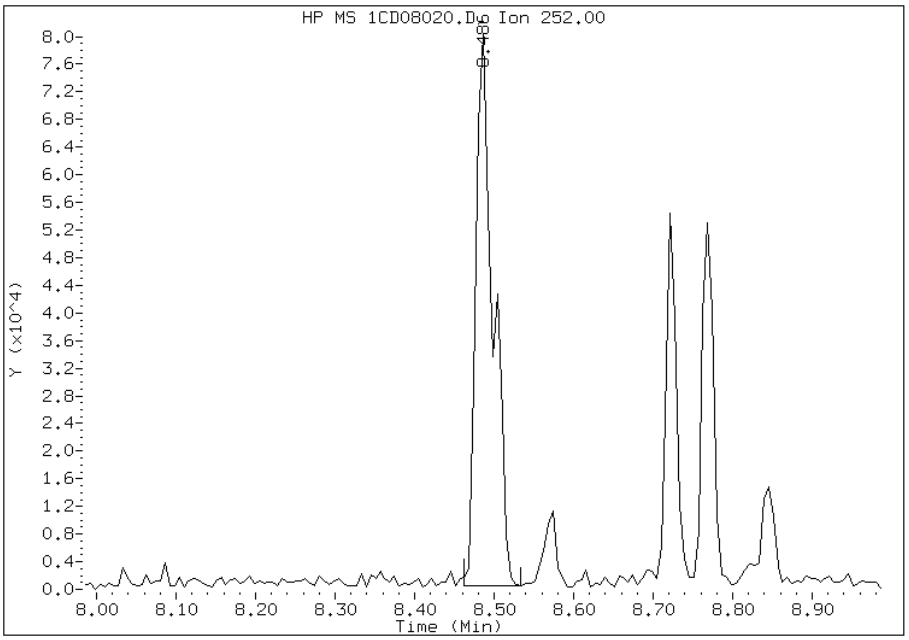
Processing Integration Results

RT: 8.49

Response: 120779

Amount: 7

Conc: 556



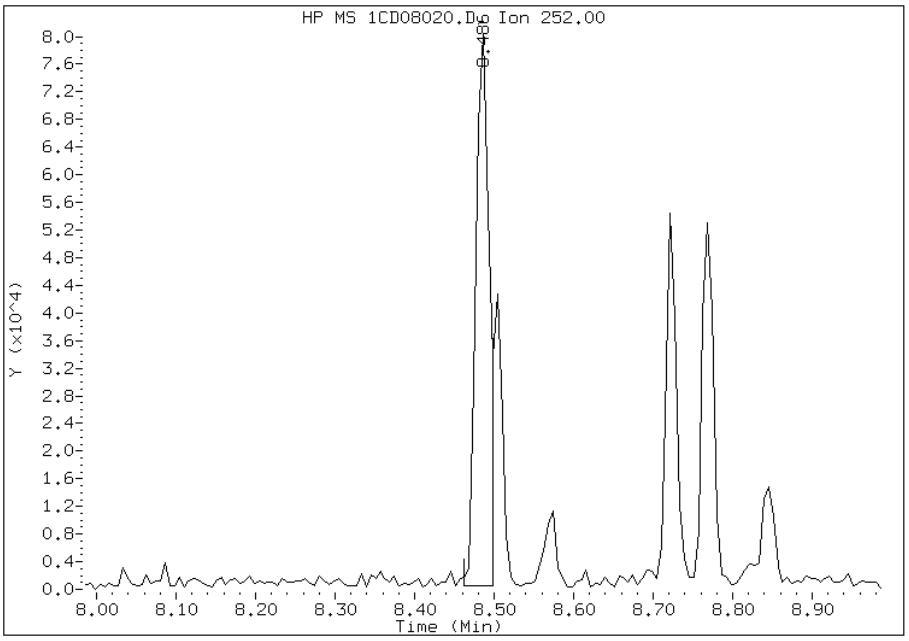
Manual Integration Results

RT: 8.49

Response: 94138

Amount: 5

Conc: 433



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08020.D
Inj. Date and Time: 08-APR-2013 18:20
Instrument ID: BSMC5973.i
Client ID: CV1366B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

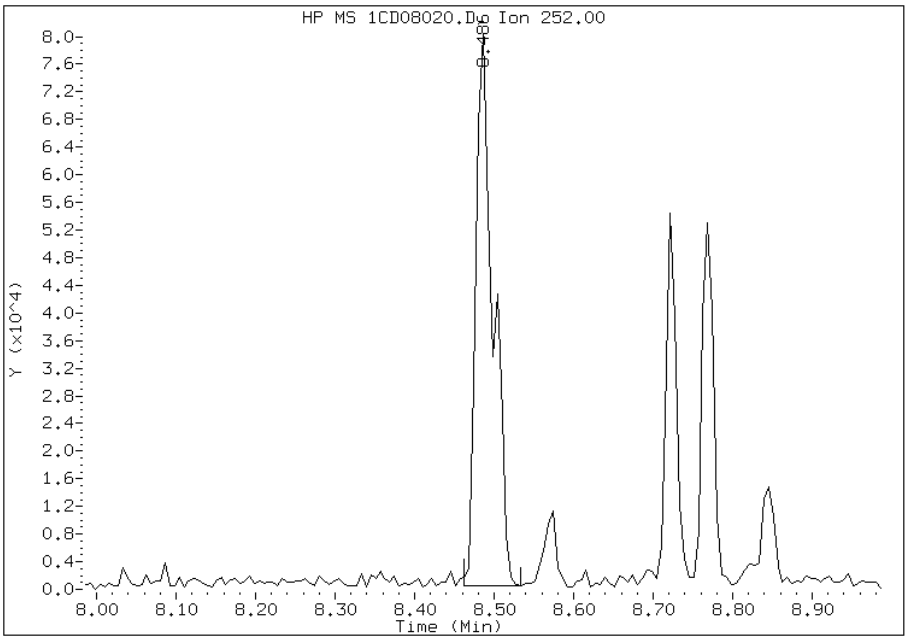
Processing Integration Results

RT: 8.49

Response: 120646

Amount: 7

Conc: 574



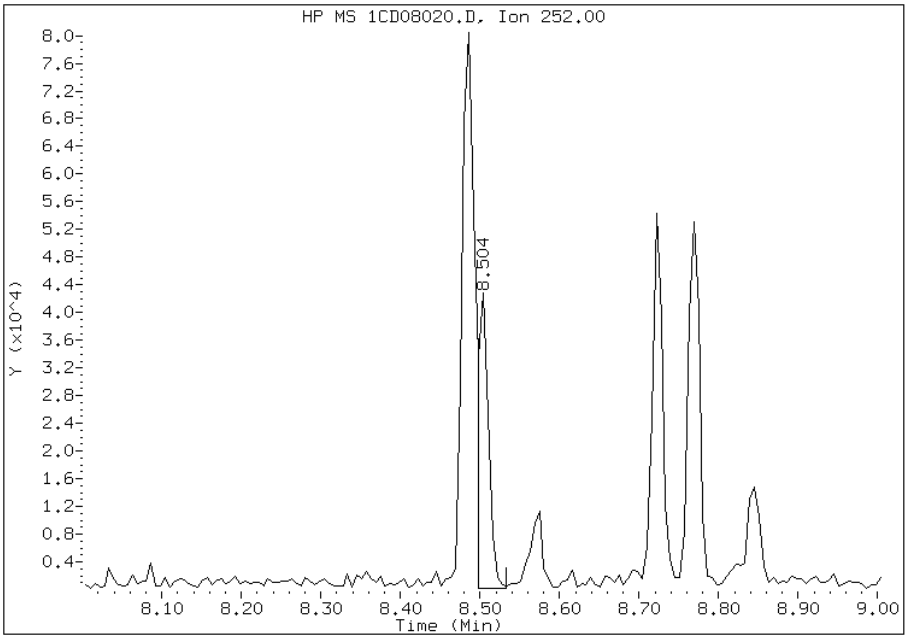
Manual Integration Results

RT: 8.50

Response: 39243

Amount: 2

Conc: 187



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08020.D
Inj. Date and Time: 08-APR-2013 18:20
Instrument ID: BSMC5973.i
Client ID: CV1366B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

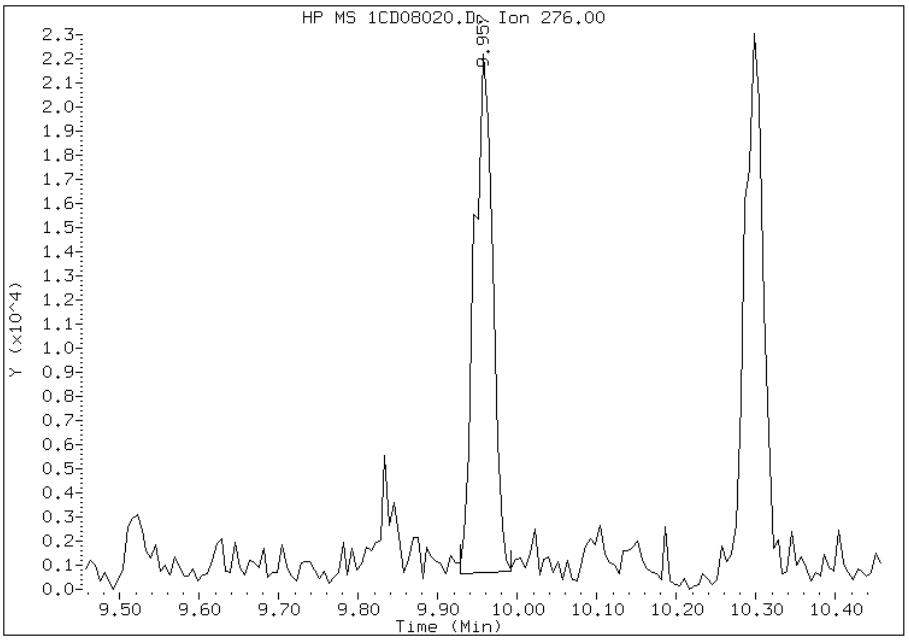
Processing Integration Results

RT: 9.96

Response: 34461

Amount: 2

Conc: 177



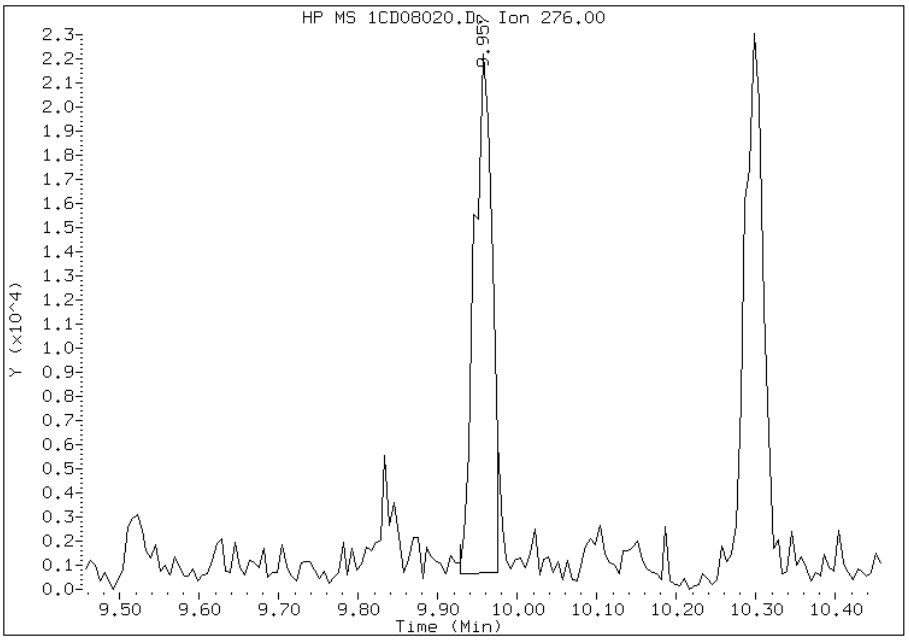
Manual Integration Results

RT: 9.96

Response: 33569

Amount: 2

Conc: 173



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1043A-CS | Lab Sample ID: 680-88811-29

Matrix: Solid | Lab File ID: 1CD08021.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:15

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.98(g) | Date Analyzed: 04/08/2013 18:38

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

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

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	21	J	51	6.4
120-12-7	Anthracene	30		11	5.4
56-55-3	Benzo[a]anthracene	180		10	5.0
50-32-8	Benzo[a]pyrene	140		13	6.7
205-99-2	Benzo[b]fluoranthene	240		16	7.8
191-24-2	Benzo[g,h,i]perylene	130		26	5.7
207-08-9	Benzo[k]fluoranthene	110		10	4.6
218-01-9	Chrysene	280		12	5.8
53-70-3	Dibenz(a,h)anthracene	42		26	5.3
206-44-0	Fluoranthene	220		26	5.1
86-73-7	Fluorene	10	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	80		26	9.1
90-12-0	1-Methylnaphthalene	320		51	5.7
91-57-6	2-Methylnaphthalene	180		51	9.1
91-20-3	Naphthalene	130		51	5.7
85-01-8	Phenanthrene	270		10	5.0
129-00-0	Pyrene	240		26	4.8

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\1C040813.b\1CD08021.D
Lab Smp Id: 680-88811-A-29-A Client Smp ID: CV1043A-CS
Inj Date : 08-APR-2013 18:38
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-29-A
Misc Info : 680-88811-A-29-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	22.162	% 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	3.692	3.692	(1.000)	485435	40.0000	
*	6 Acenaphthene-d10	164	4.780	4.774	(1.000)	359099	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	641634	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	75937	7.97611	684.0524
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	690687	40.0000	
*	23 Perylene-d12	264	8.827	8.821	(1.000)	650528	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	18884	1.51456	129.8927
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	17328	2.04162	175.0948
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	28278	3.70277	317.5596
	5 Acenaphthylene	152	4.692	4.686	(0.982)	3574	0.24048	20.6237
	7 Acenaphthene	154	4.798	4.798	(1.004)	1225	0.13308	11.4130(aQ)
	9 Fluorene	166	5.115	5.115	(1.070)	1430	0.11653	9.9939(Q)
	11 Phenanthrene	178	5.739	5.739	(1.003)	58816	3.14737	269.9265
	12 Anthracene	178	5.768	5.768	(1.008)	6650	0.35104	30.1064

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	8267	0.50937	43.6851
15 Fluoranthene	202	6.568	6.568	(1.148)	52936	2.56500	219.9808
16 Pyrene	202	6.739	6.739	(0.880)	52885	2.76414	237.0595
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	39185	2.09364	179.5564
19 Chrysene	228	7.674	7.674	(1.002)	63290	3.21570	275.7868
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	50452	2.74330	235.2727(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	22719	1.27725	109.5405(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	28535	1.64802	141.3388
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.127)	15330	0.93216	79.9445(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	7372	0.48526	41.6170
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	24811	1.47819	126.7731

QC Flag Legend

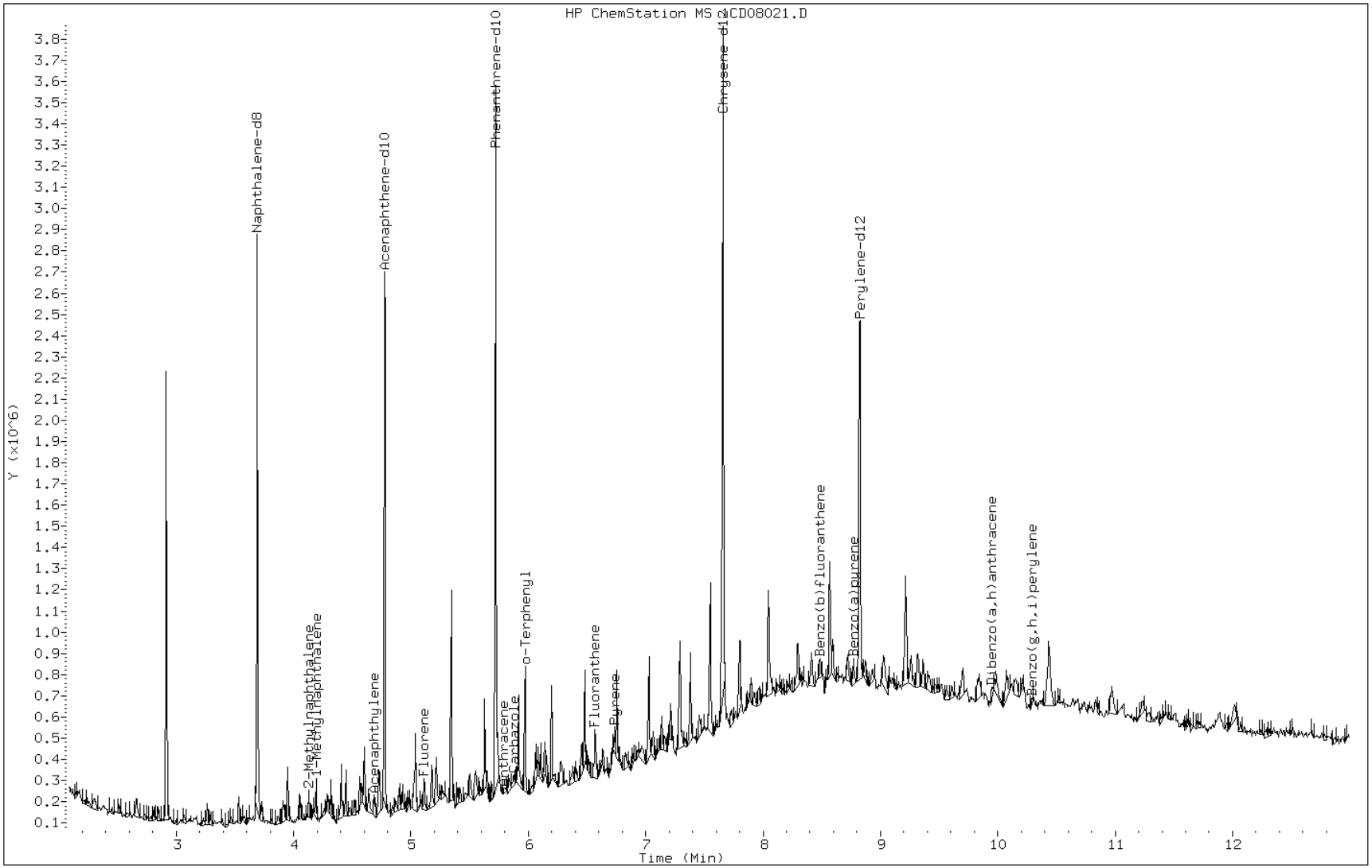
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP



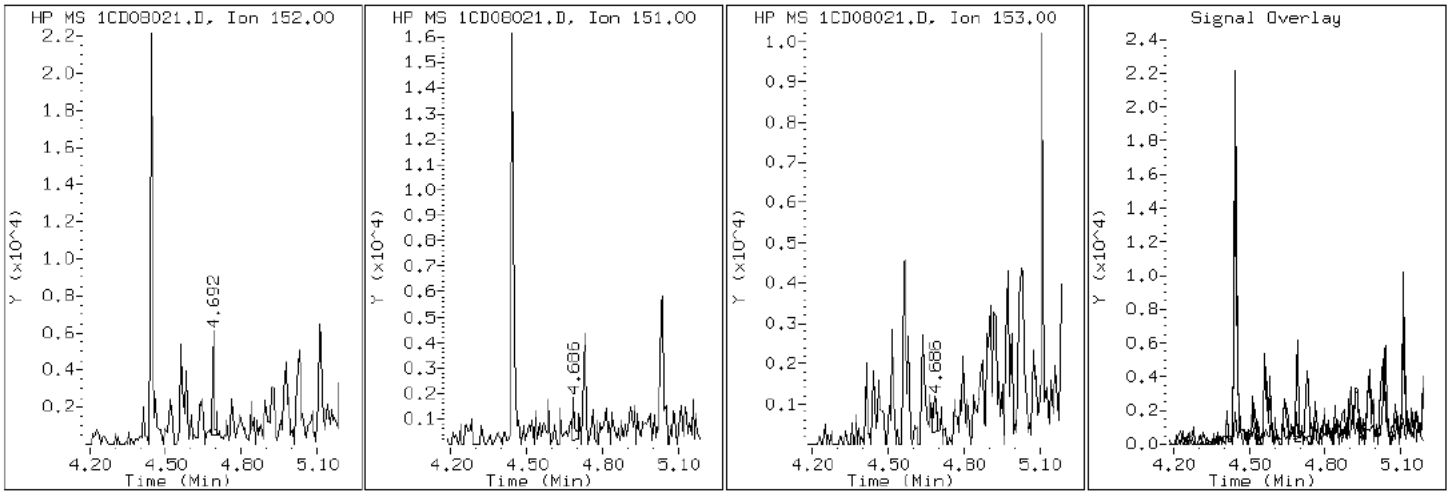
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

5 Acenaphthylene



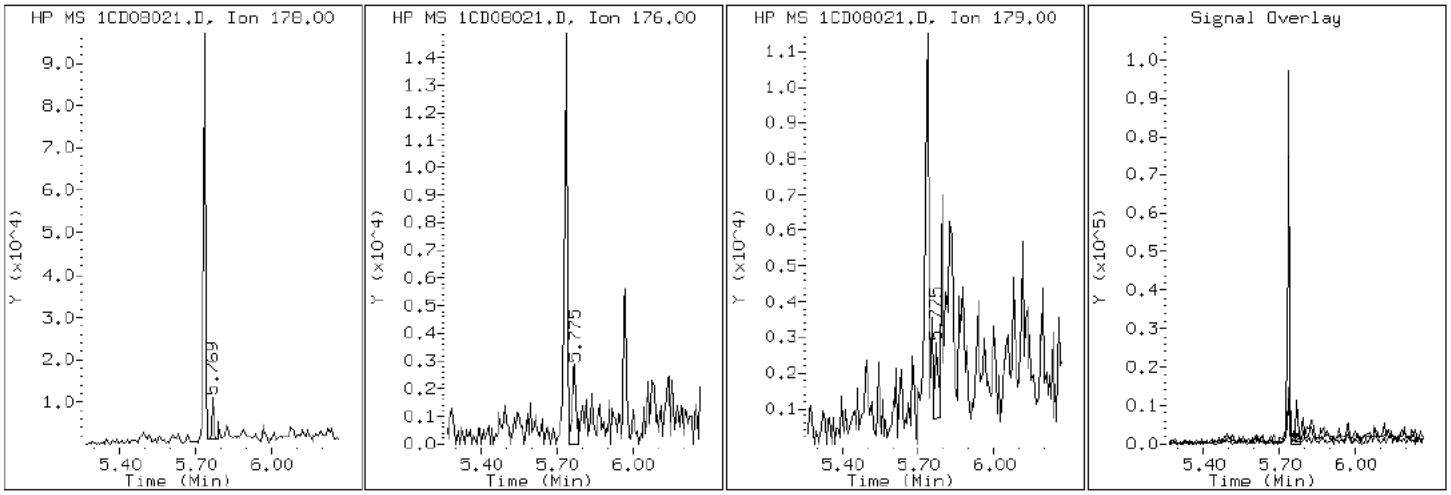
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

12 Anthracene



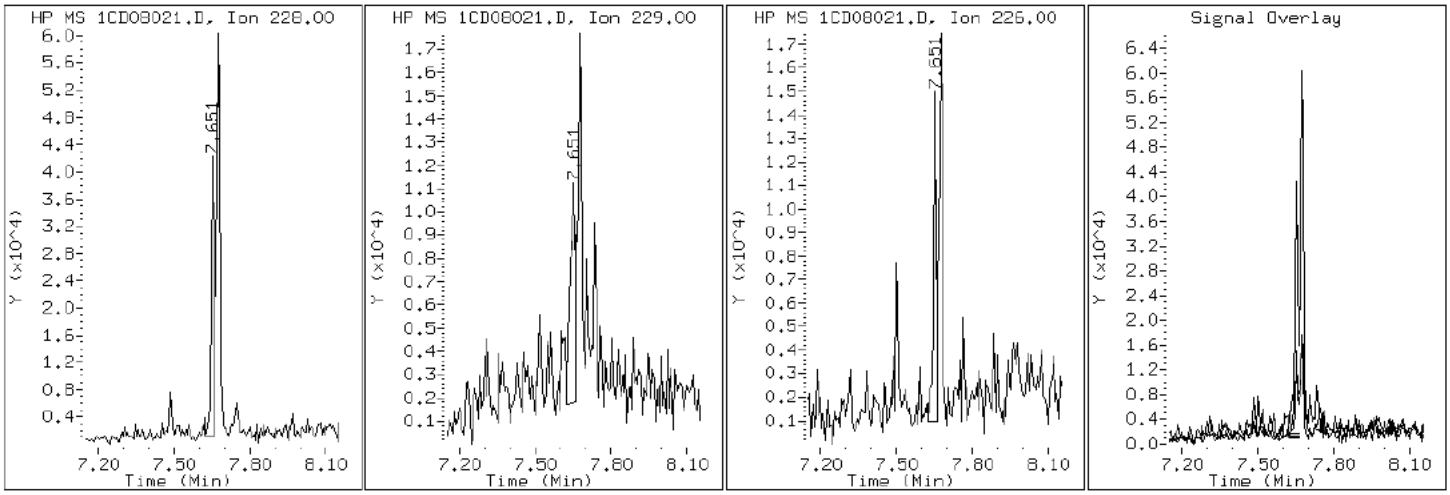
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

17 Benzo(a)anthracene



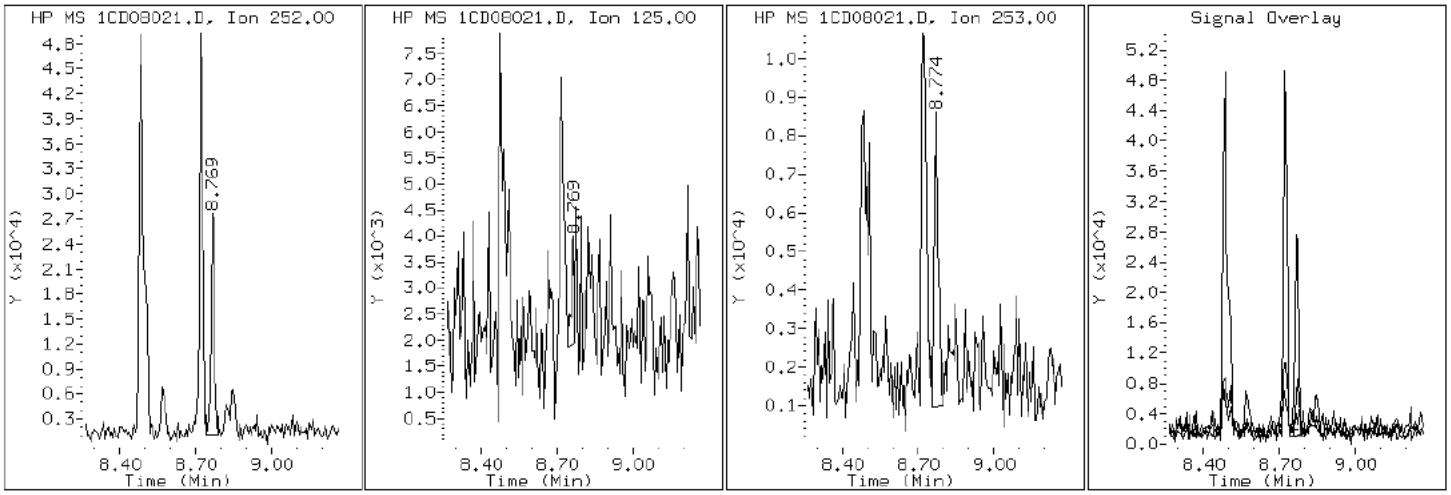
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

22 Benzo(a)pyrene



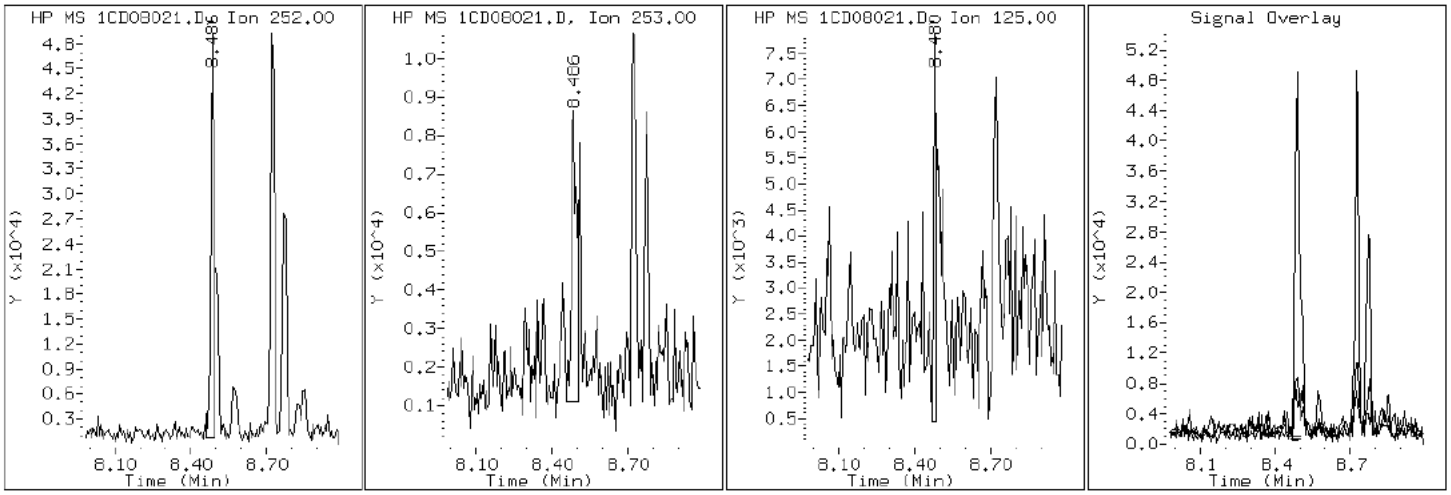
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

20 Benzo(b)fluoranthene



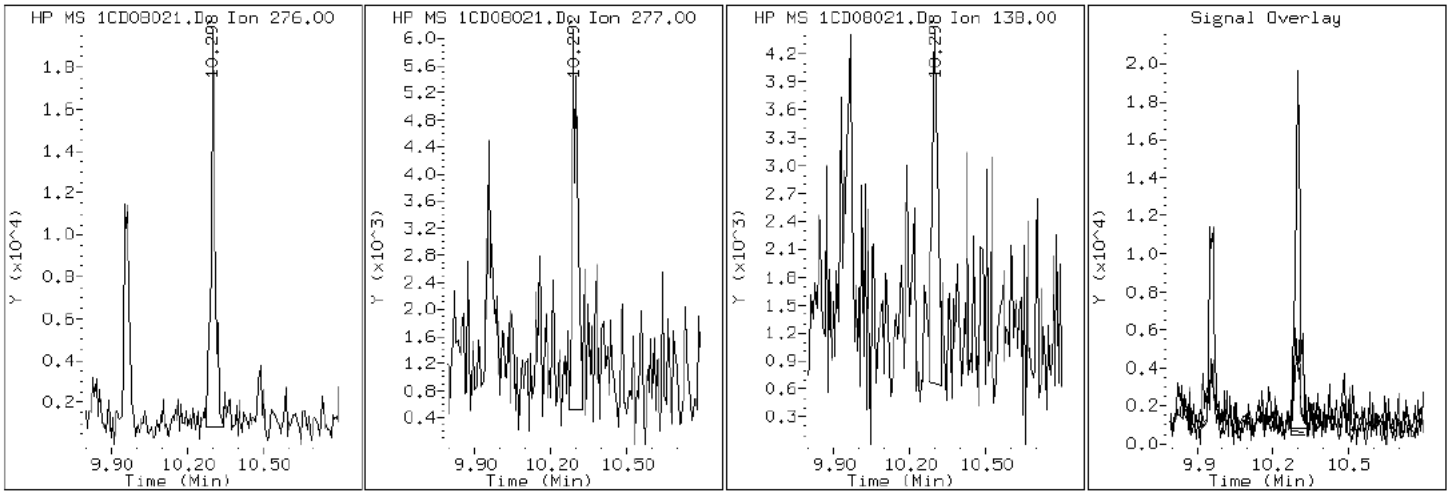
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

26 Benzo(g,h,i)perylene



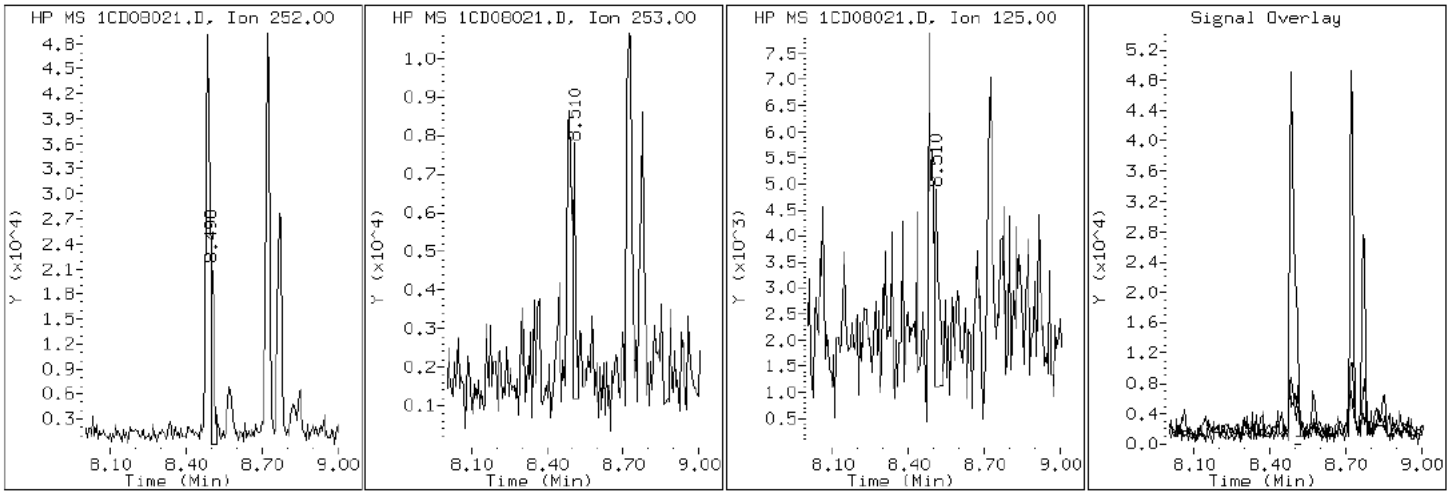
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

21 Benzo(k)fluoranthene



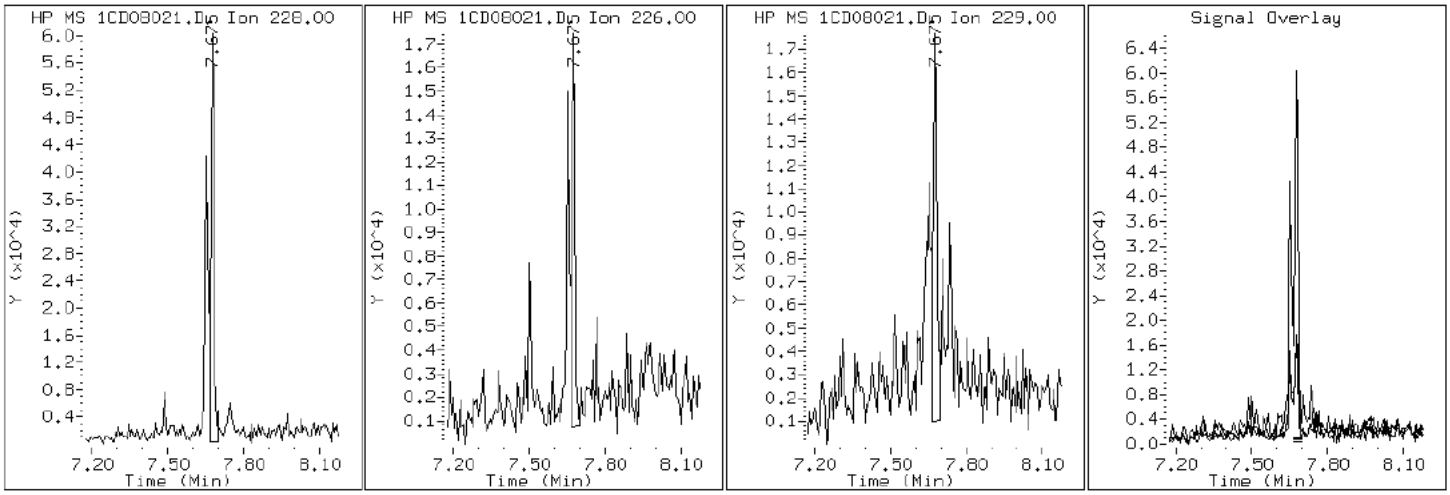
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

19 Chrysene



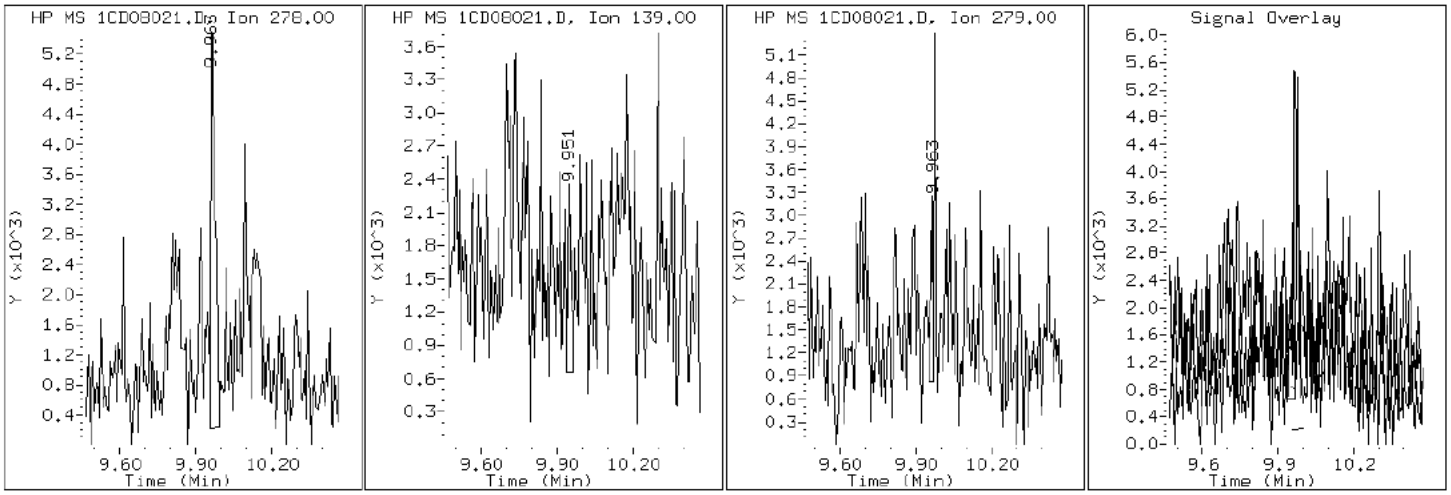
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

25 Dibenzo(a,h)anthracene



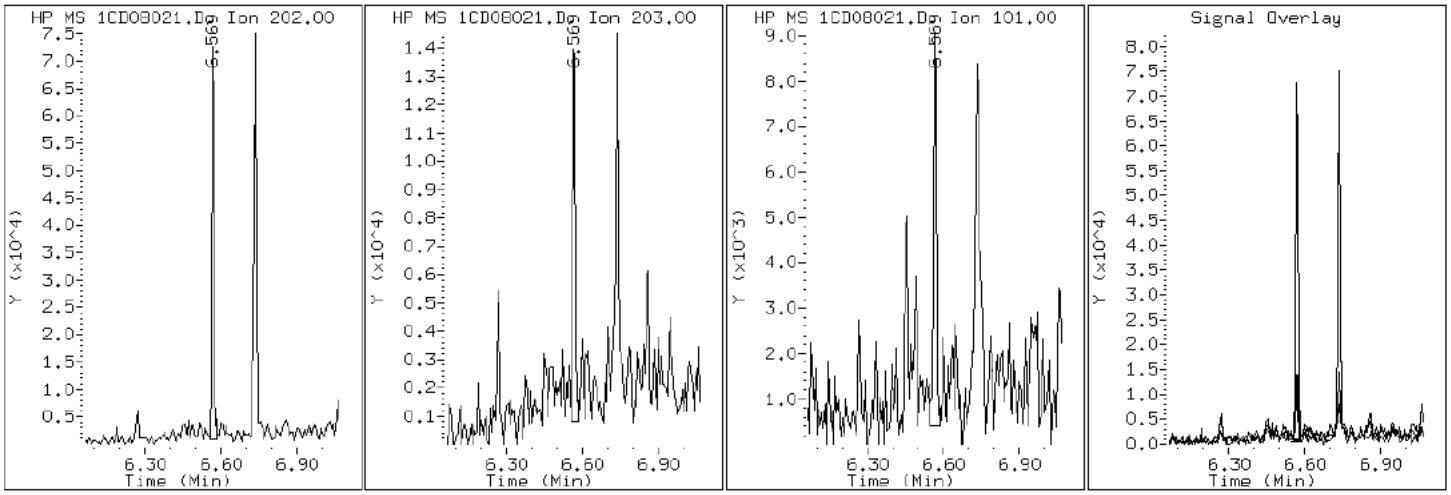
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

15 Fluoranthene



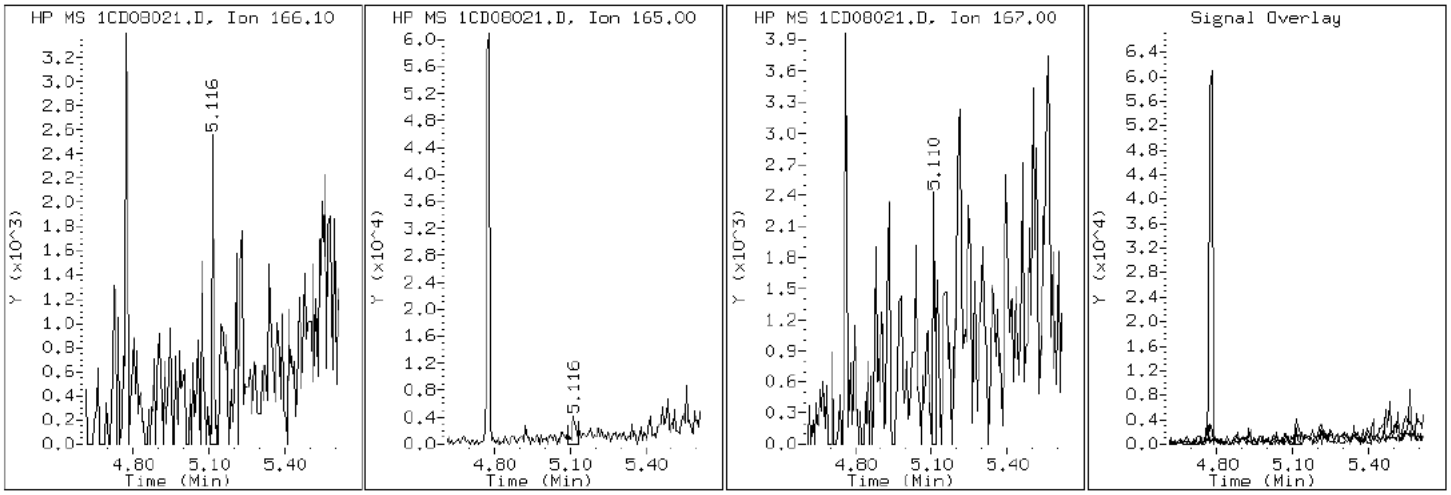
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

9 Fluorene



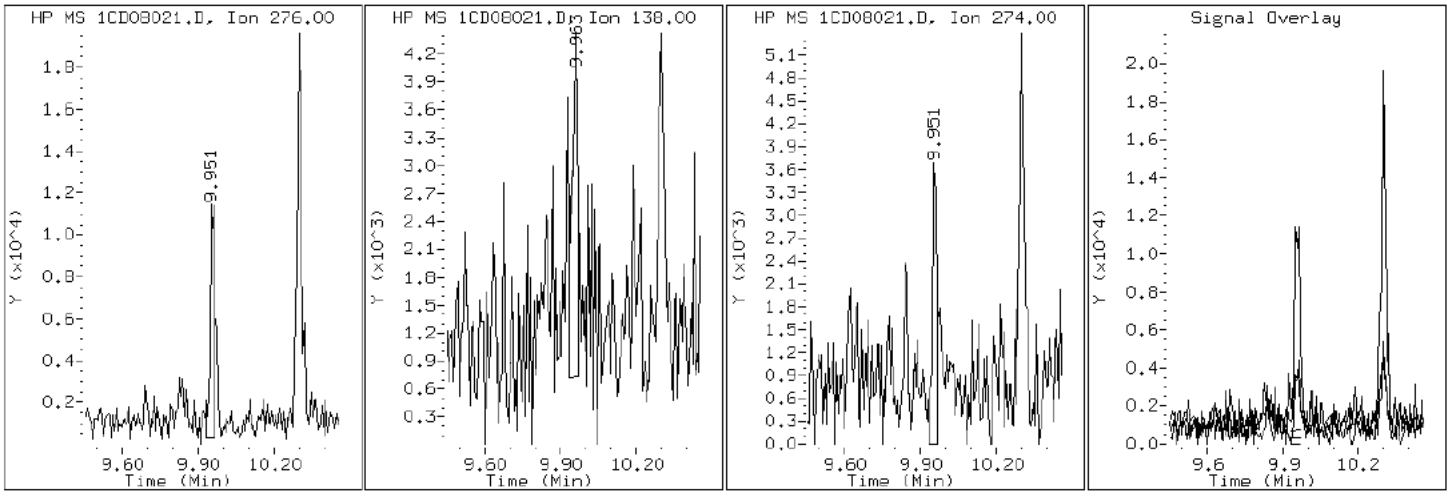
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

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



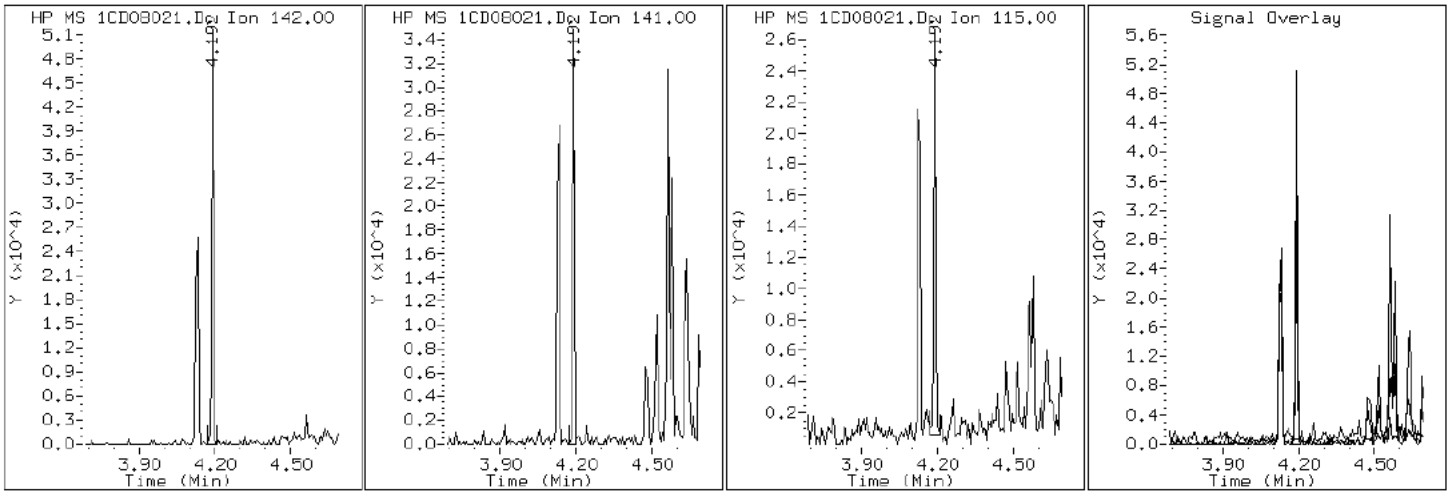
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

4 1-Methylnaphthalene



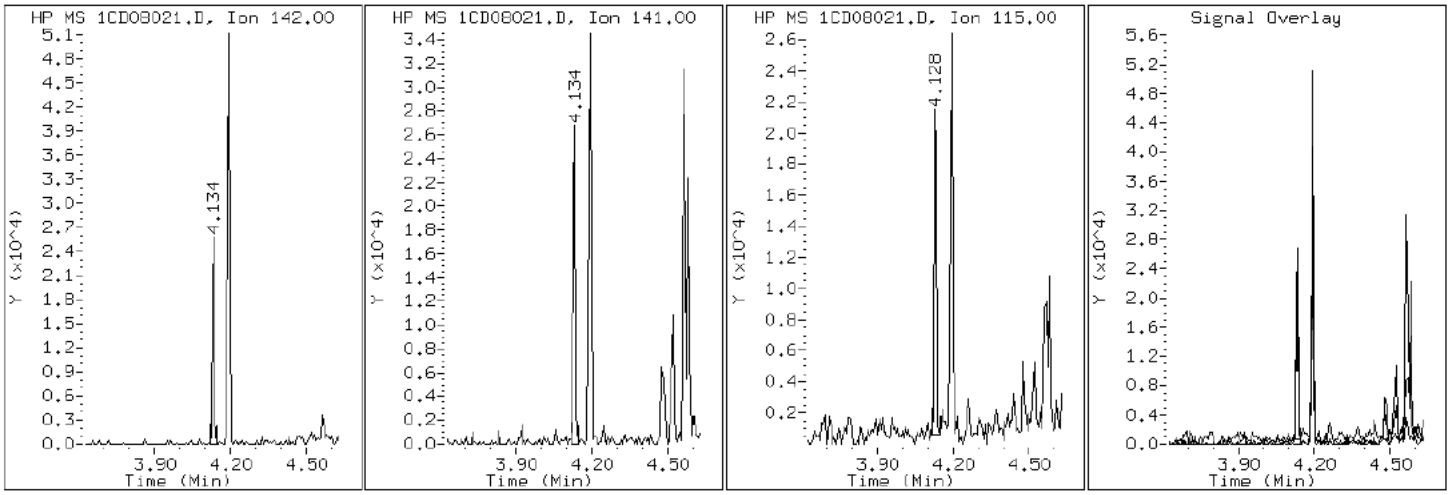
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

3 2-Methylnaphthalene



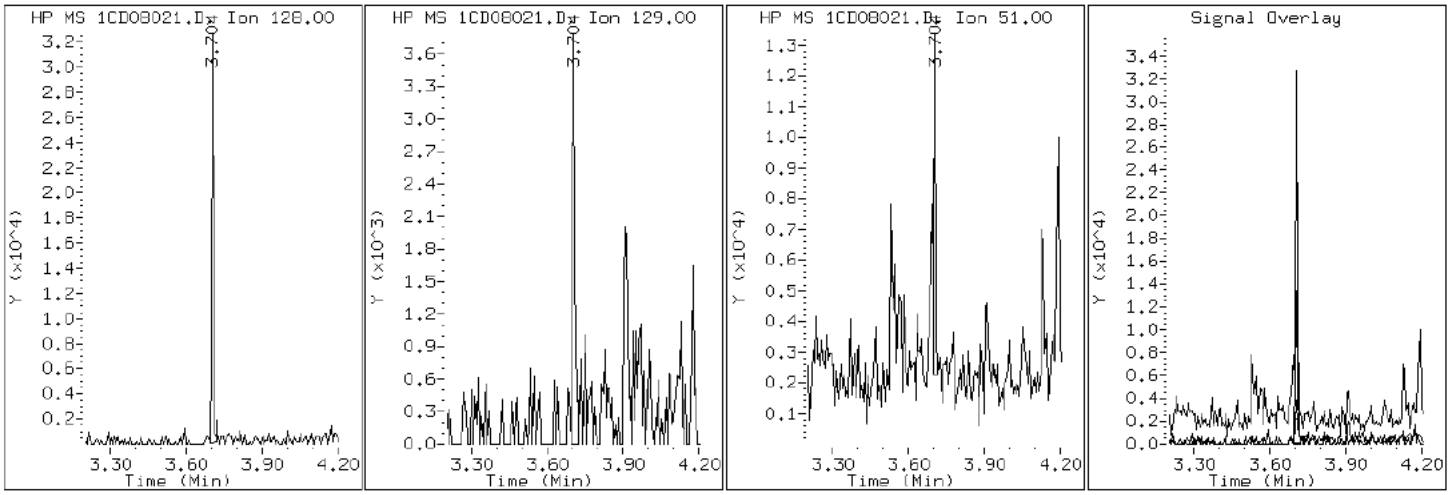
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

2 Naphthalene



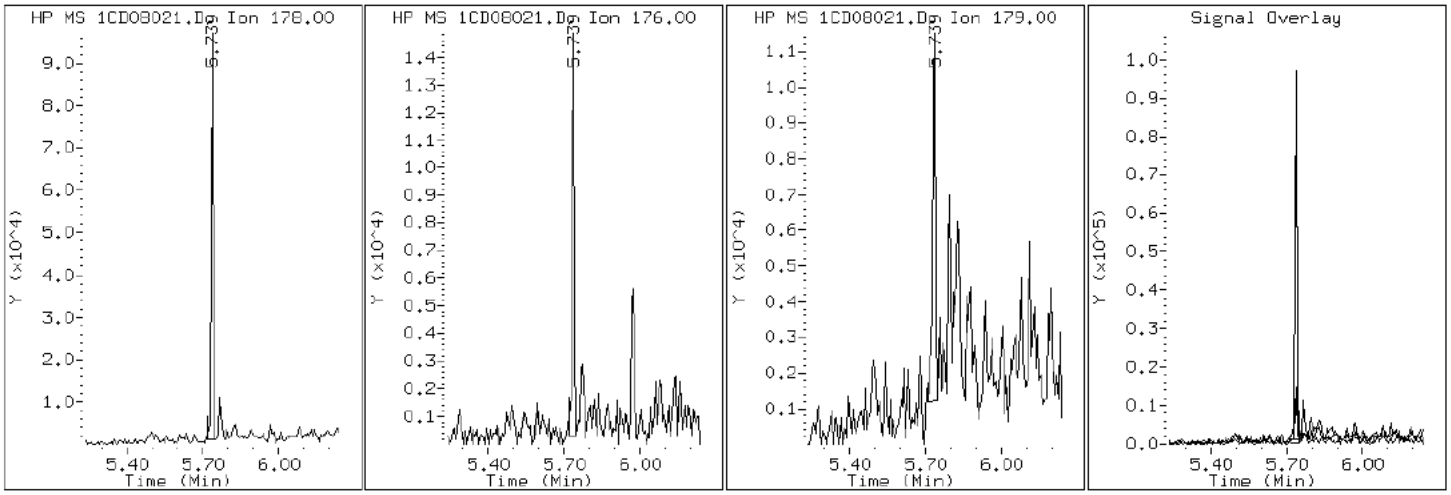
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

11 Phenanthrene



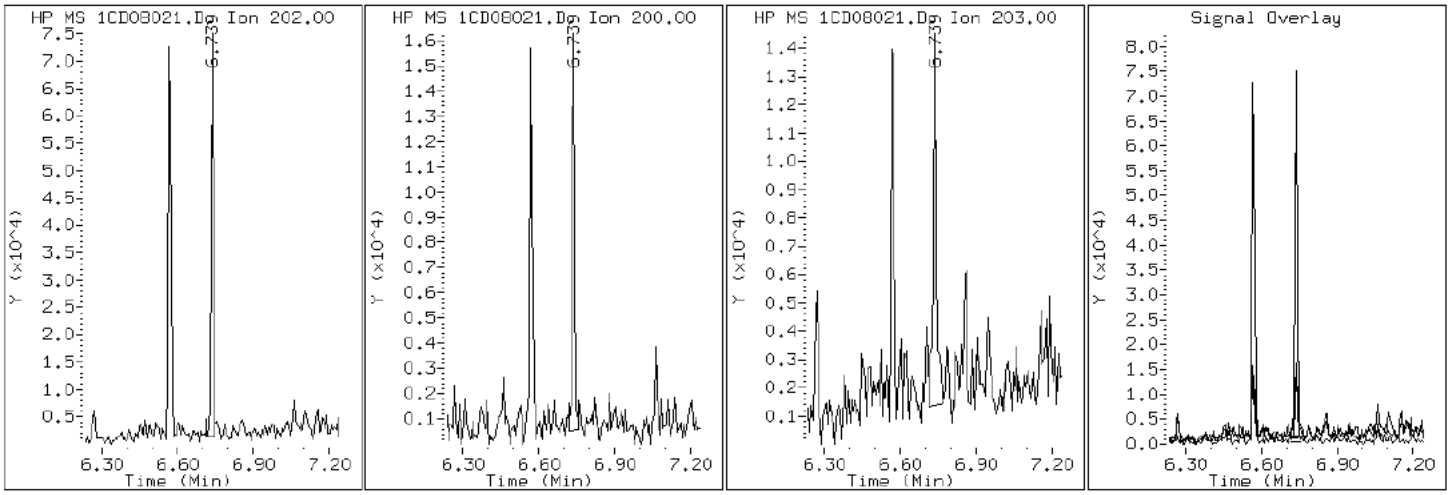
Data File: 1CD08021.D

Date: 08-APR-2013 18:38

Client ID: CV1043A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-29-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08021.D
Inj. Date and Time: 08-APR-2013 18:38
Instrument ID: BSMC5973.i
Client ID: CV1043A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

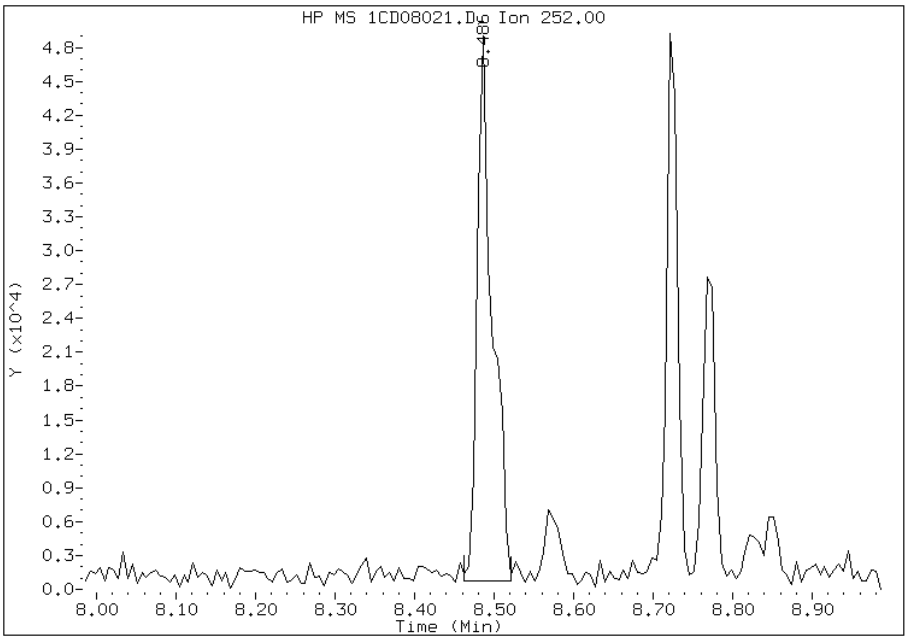
Processing Integration Results

RT: 8.49

Response: 64623

Amount: 4

Conc: 301



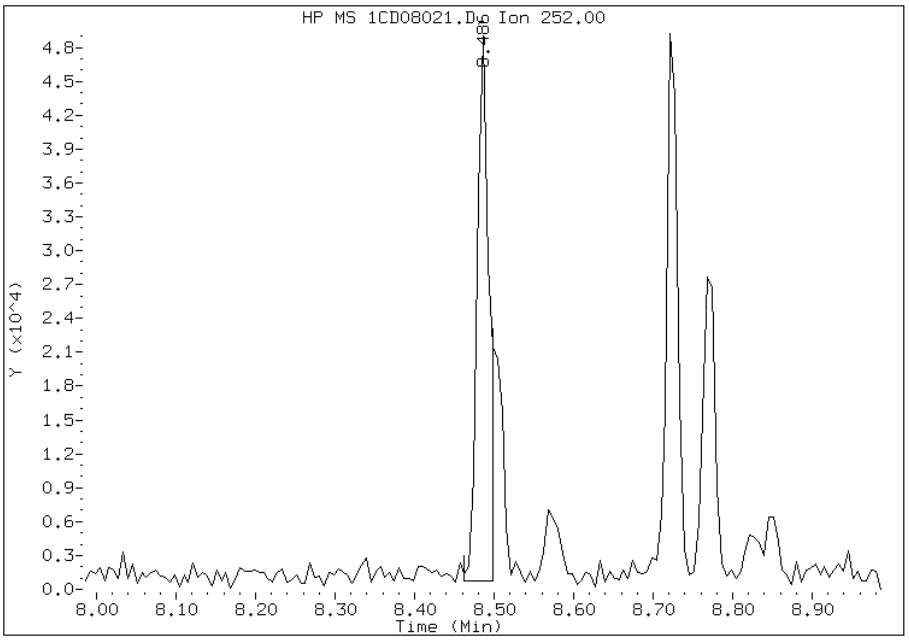
Manual Integration Results

RT: 8.49

Response: 50452

Amount: 3

Conc: 235



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08021.D
Inj. Date and Time: 08-APR-2013 18:38
Instrument ID: BSMC5973.i
Client ID: CV1043A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

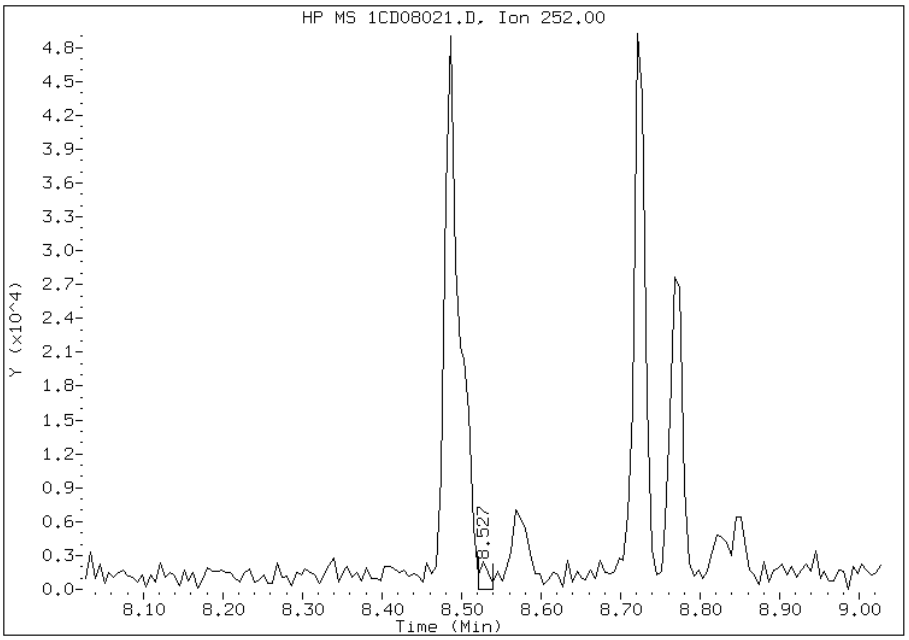
Processing Integration Results

RT: 8.53

Response: 2033

Amount: 0

Conc: 10



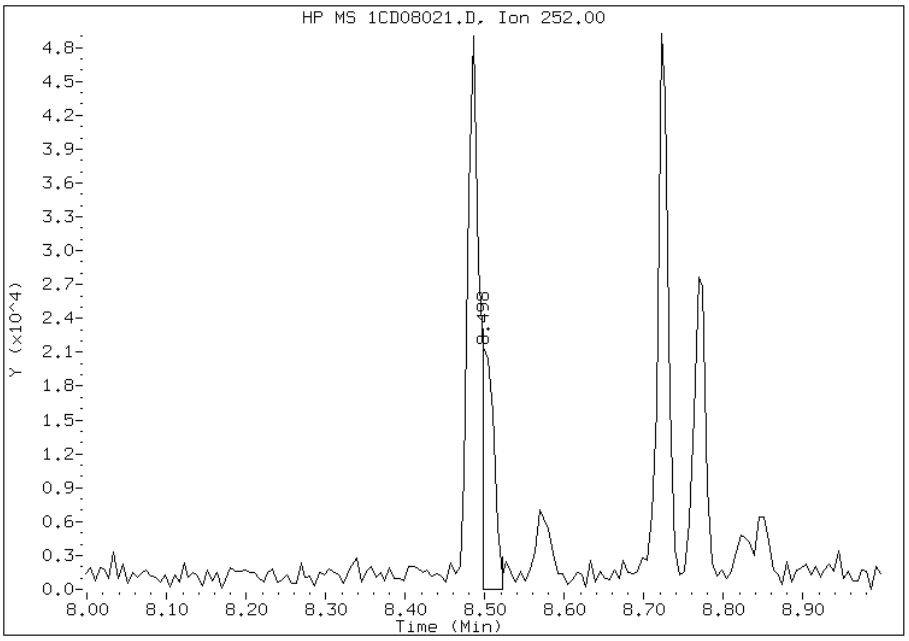
Manual Integration Results

RT: 8.50

Response: 22719

Amount: 1

Conc: 110



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08021.D
Inj. Date and Time: 08-APR-2013 18:38
Instrument ID: BSMC5973.i
Client ID: CV1043A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

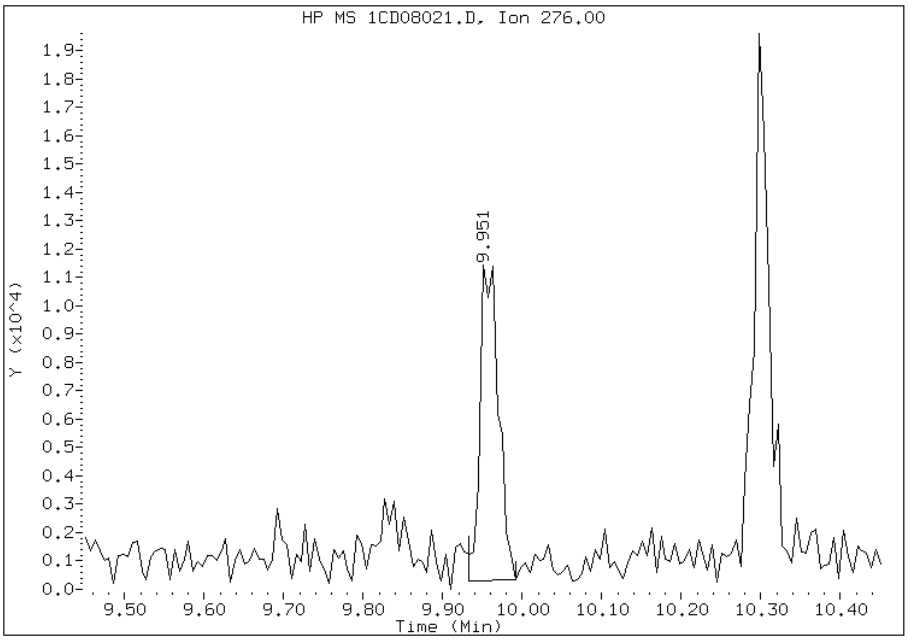
Processing Integration Results

RT: 9.95

Response: 18072

Amount: 1

Conc: 94



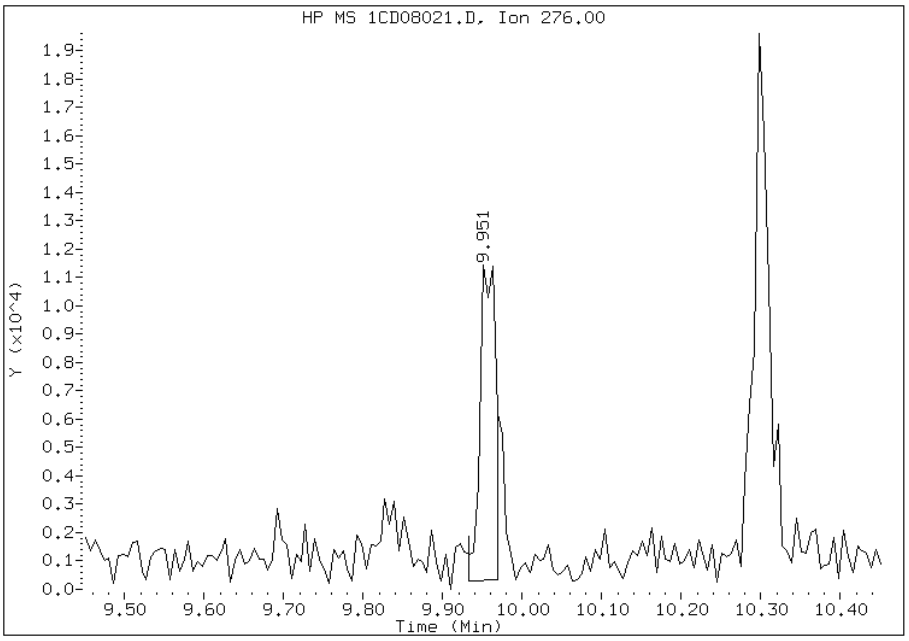
Manual Integration Results

RT: 9.95

Response: 15330

Amount: 1

Conc: 80



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1043B-CS | Lab Sample ID: 680-88811-30

Matrix: Solid | Lab File ID: 1CD08022.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:25

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/08/2013 18:57

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

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	43	J	53	6.6
120-12-7	Anthracene	66		11	5.5
56-55-3	Benzo[a]anthracene	380		11	5.1
50-32-8	Benzo[a]pyrene	340		14	6.9
205-99-2	Benzo[b]fluoranthene	560		16	8.0
191-24-2	Benzo[g,h,i]perylene	230		26	5.8
207-08-9	Benzo[k]fluoranthene	260		11	4.7
218-01-9	Chrysene	450		12	5.9
53-70-3	Dibenz(a,h)anthracene	80		26	5.4
206-44-0	Fluoranthene	530		26	5.3
86-73-7	Fluorene	17	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	230		26	9.4
90-12-0	1-Methylnaphthalene	170		53	5.8
91-57-6	2-Methylnaphthalene	140		53	9.4
91-20-3	Naphthalene	93		53	5.8
85-01-8	Phenanthrene	450		11	5.1
129-00-0	Pyrene	580		26	4.9

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\1C040813.b\1CD08022.D
Lab Smp Id: 680-88811-A-30-A Client Smp ID: CV1043B-CS
Inj Date : 08-APR-2013 18:57
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-30-A
Misc Info : 680-88811-A-30-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	23.953	% 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	3.692	3.692	(1.000)	463880	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	344120	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	635632	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	69314	7.40622	651.4425
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	656105	40.0000	
*	23 Perylene-d12	264	8.827	8.821	(1.000)	626511	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	12579	1.05576	92.8632(Q)
	3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	12729	1.56945	138.0467
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	14199	1.94564	171.1359
	5 Acenaphthylene	152	4.692	4.686	(0.983)	6931	0.48665	42.8051
	7 Acenaphthene	154	4.798	4.798	(1.005)	2539	0.28783	25.3170(a)
	9 Fluorene	166	5.115	5.115	(1.071)	2272	0.19320	16.9940(Q)
	11 Phenanthrene	178	5.739	5.739	(1.003)	94390	5.09870	448.4758
	12 Anthracene	178	5.768	5.768	(1.008)	14034	0.74783	65.7782

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	13076	0.81329	71.5359
15 Fluoranthene	202	6.568	6.568	(1.148)	124245	6.07710	534.5345
16 Pyrene	202	6.739	6.739	(0.880)	120872	6.65060	584.9786
17 Benzo(a)anthracene	228	7.650	7.651	(0.999)	80167	4.35259	382.8491
19 Chrysene	228	7.680	7.674	(1.003)	94737	5.06720	445.7050
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	112931	6.37596	560.8221(M)
21 Benzo(k)fluoranthene	252	8.497	8.503	(0.963)	51488	3.00560	264.3690(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	64536	3.87012	340.4116
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	40730	2.57158	226.1933(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	13283	0.90786	79.8547
26 Benzo(g,h,i)perylene	276	10.309	10.297	(1.168)	42953	2.65715	233.7196

QC Flag Legend

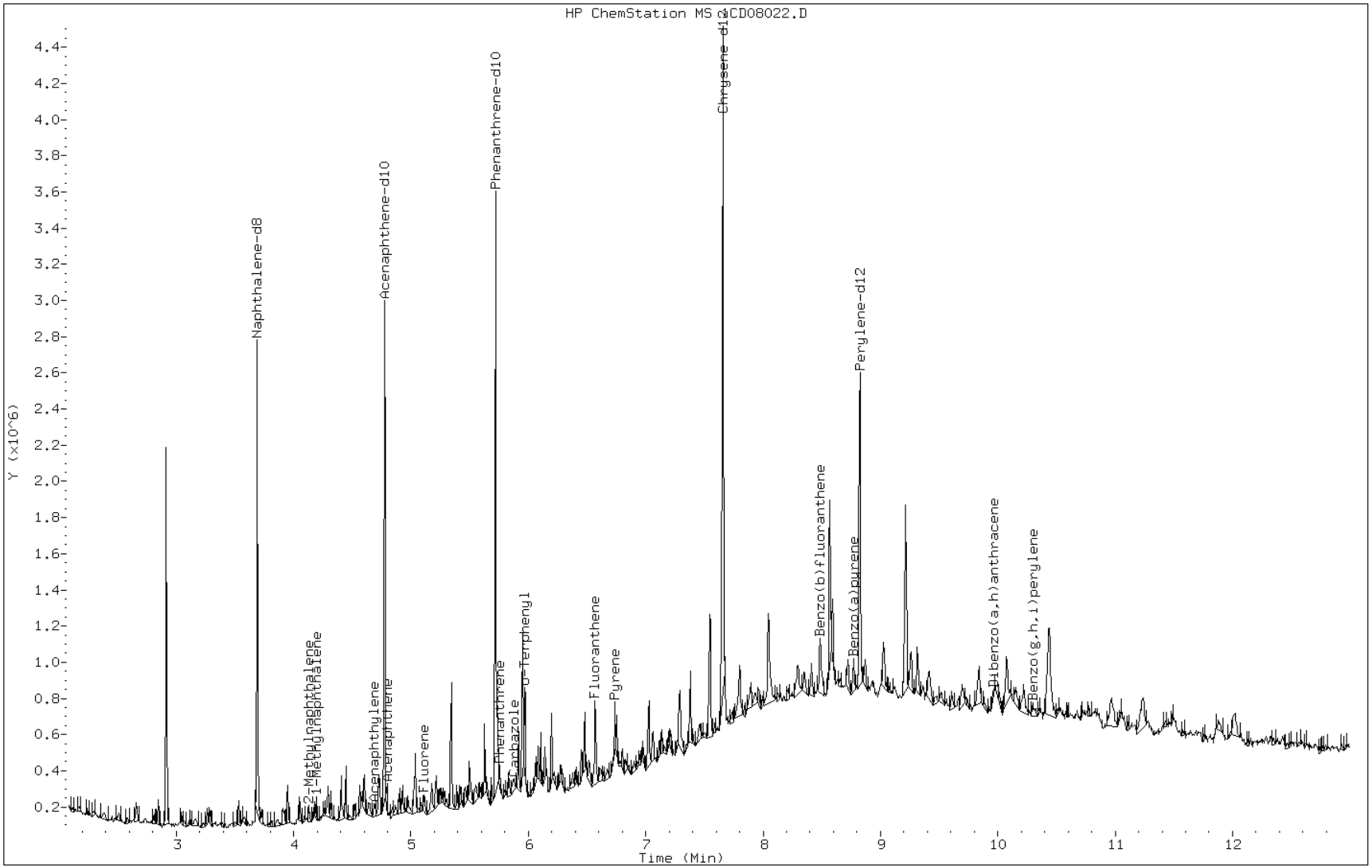
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP



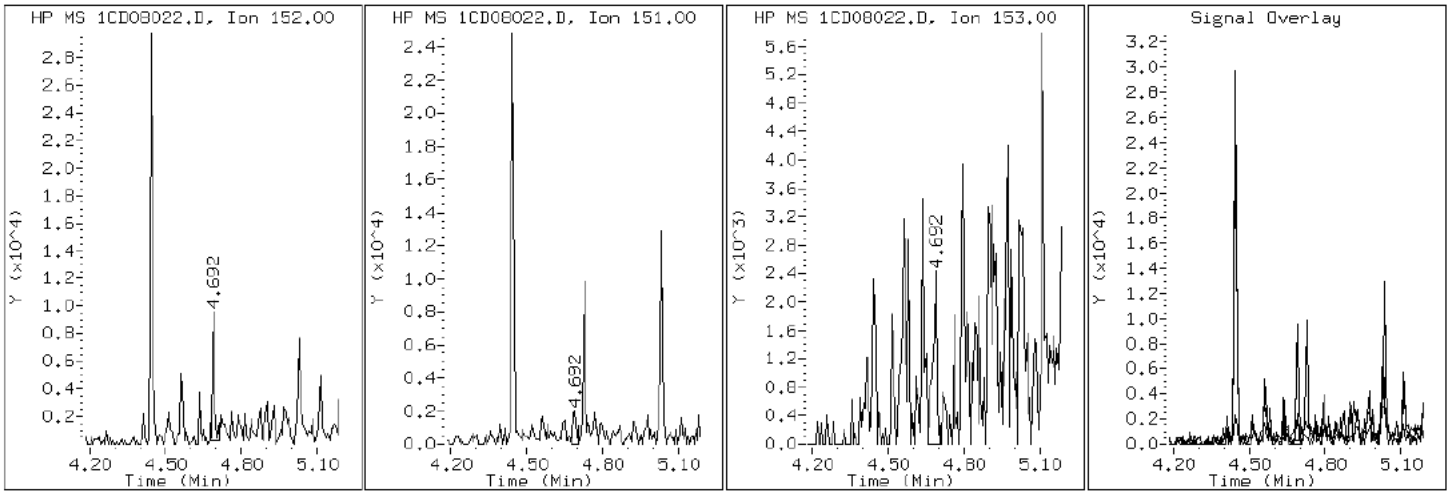
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

5 Acenaphthylene



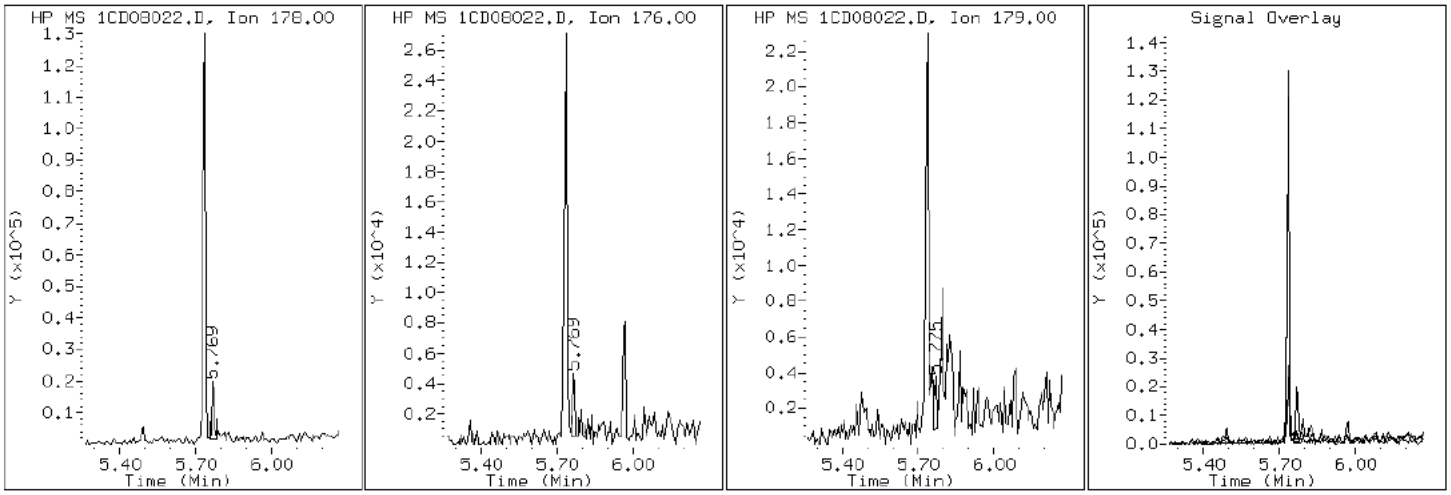
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

12 Anthracene



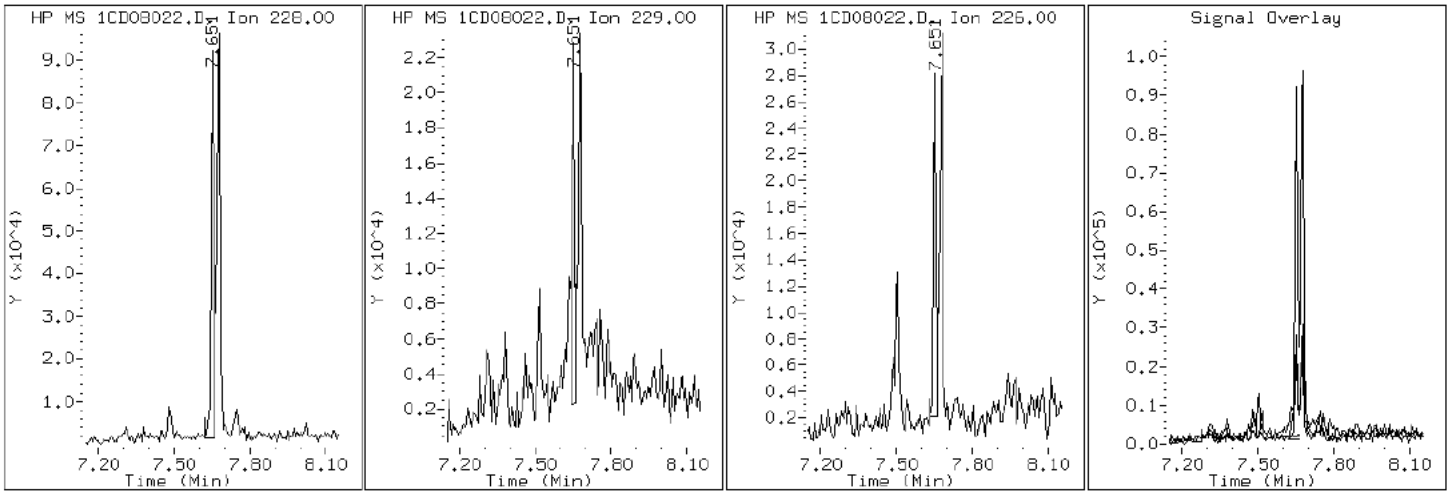
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

17 Benzo(a)anthracene



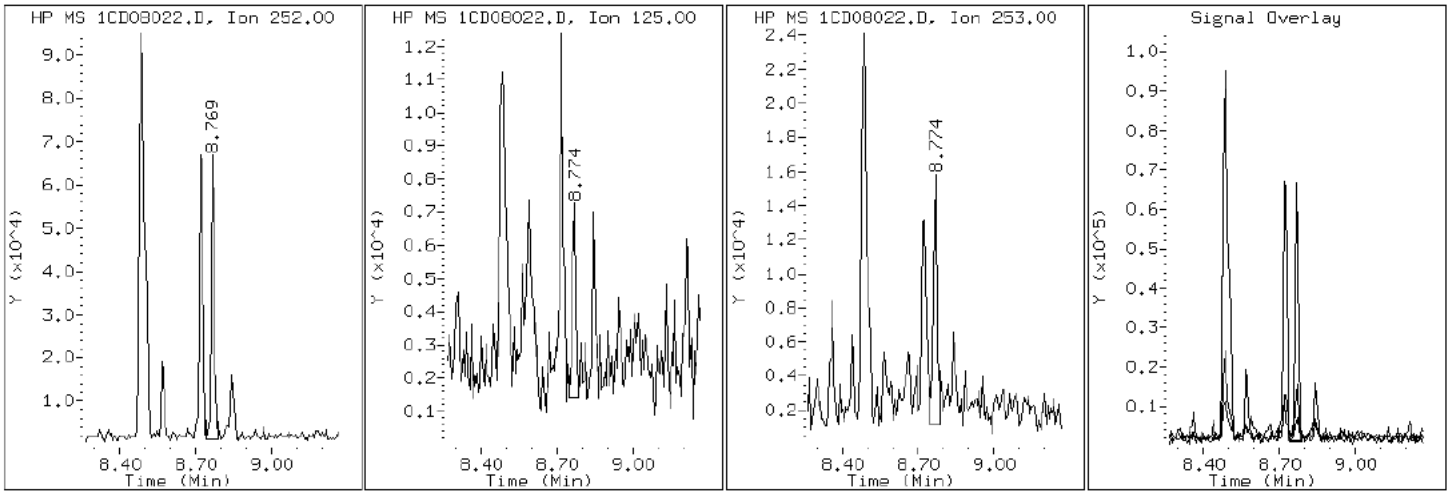
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

22 Benzo(a)pyrene



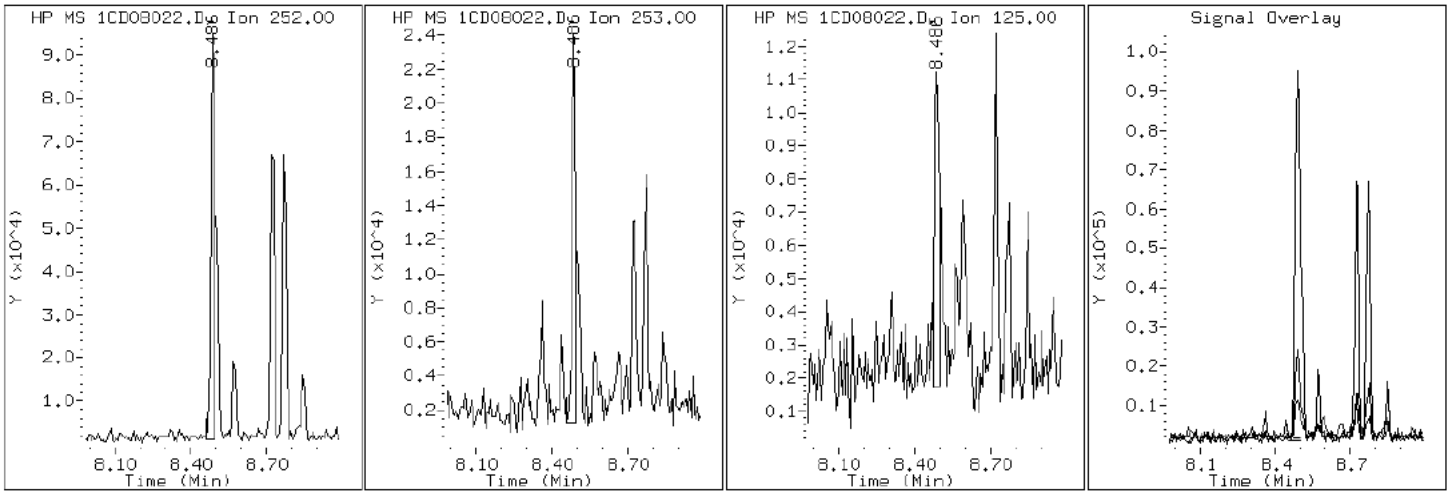
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

20 Benzo(b)fluoranthene



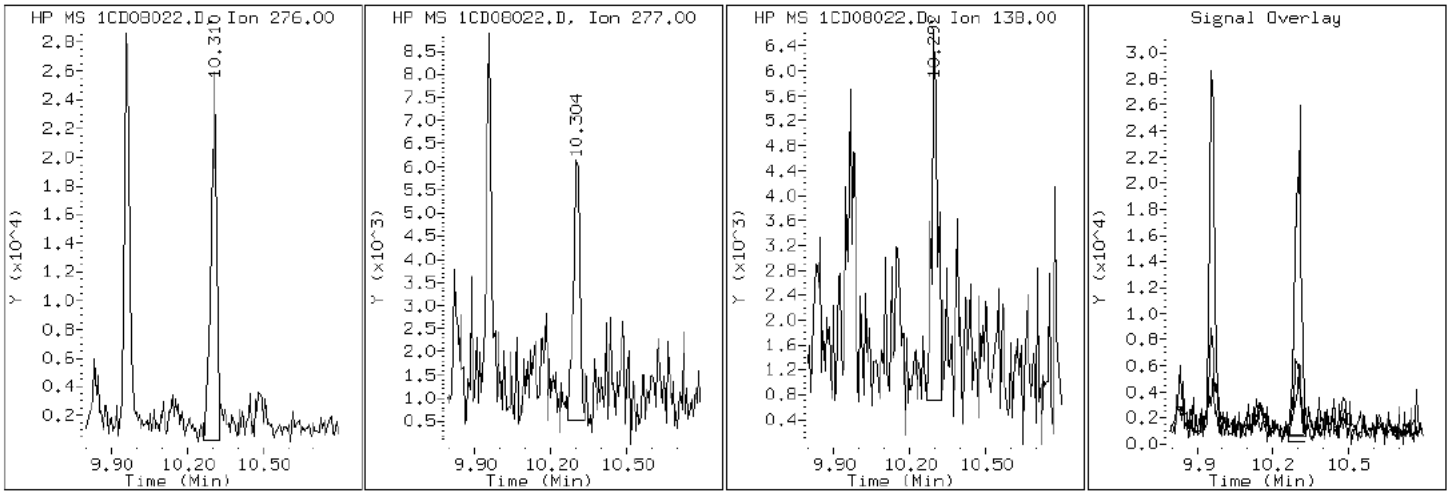
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

26 Benzo(g,h,i)perylene



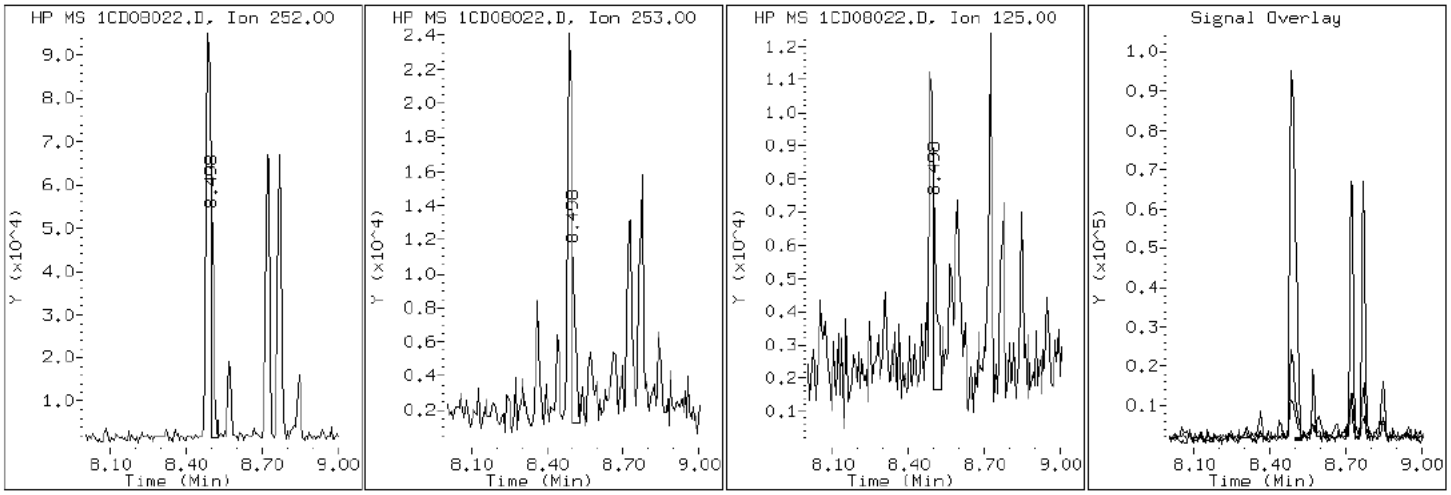
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

21 Benzo(k)fluoranthene



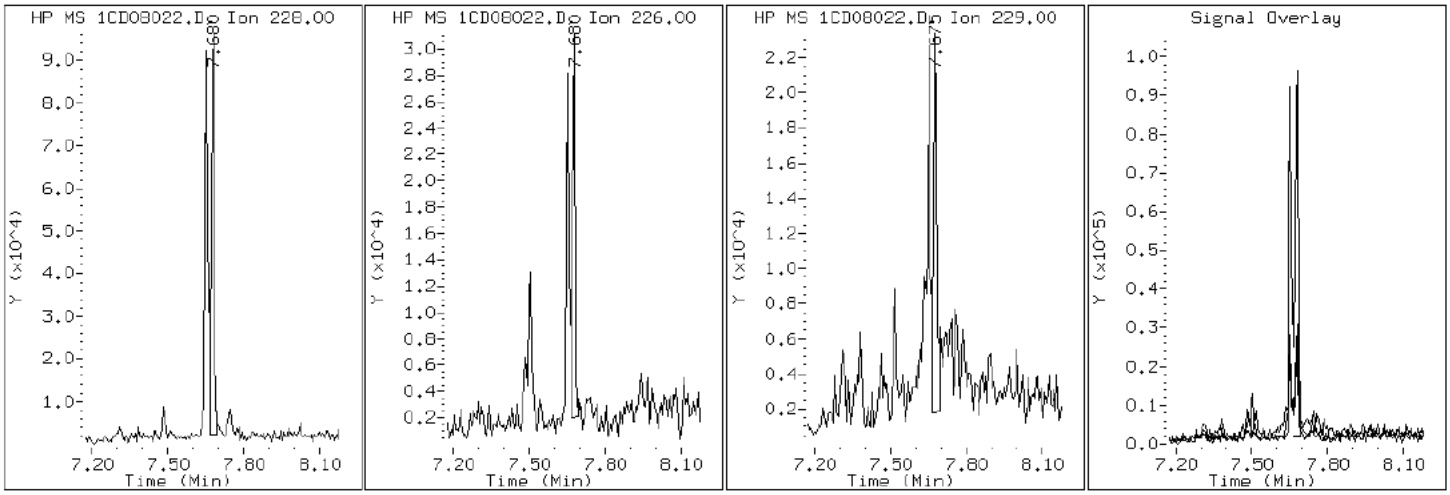
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

19 Chrysene



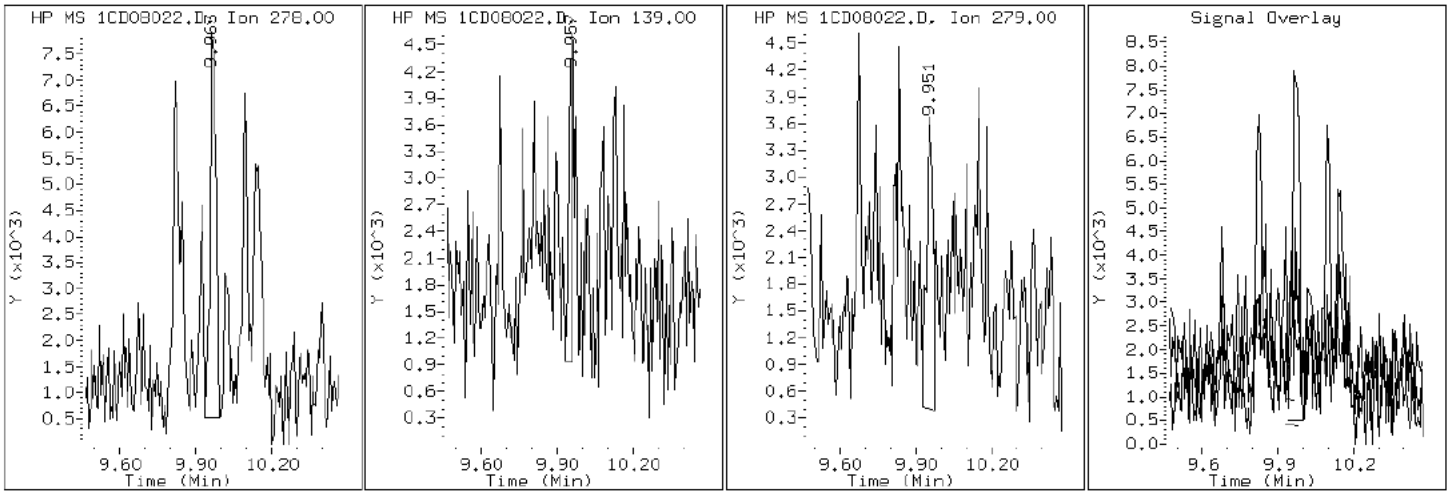
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

25 Dibenzo(a,h)anthracene



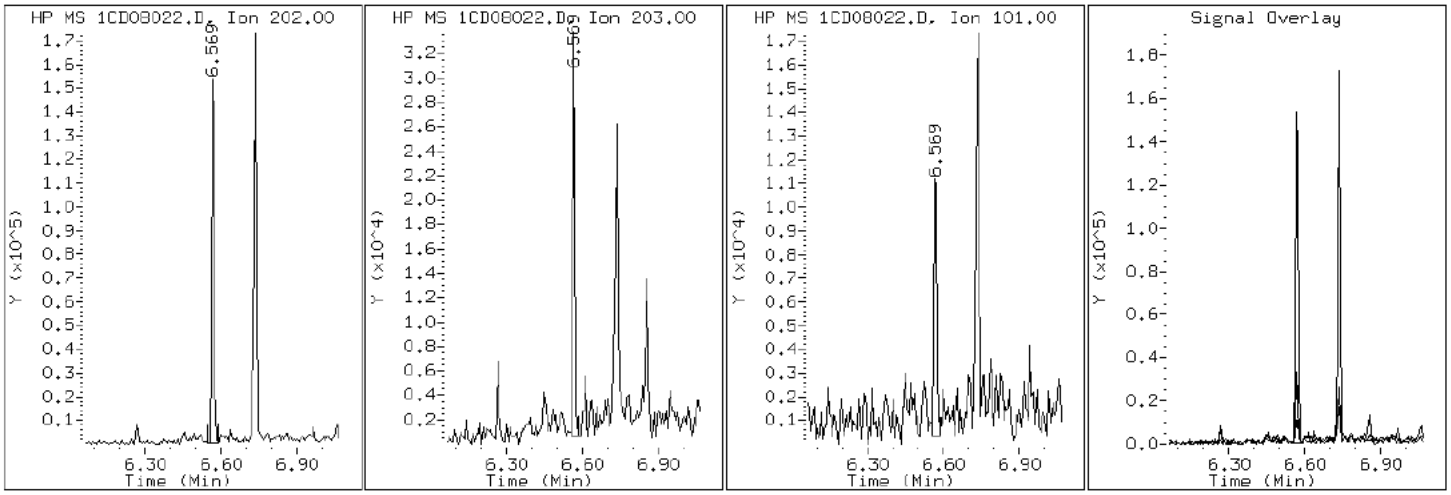
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

15 Fluoranthene



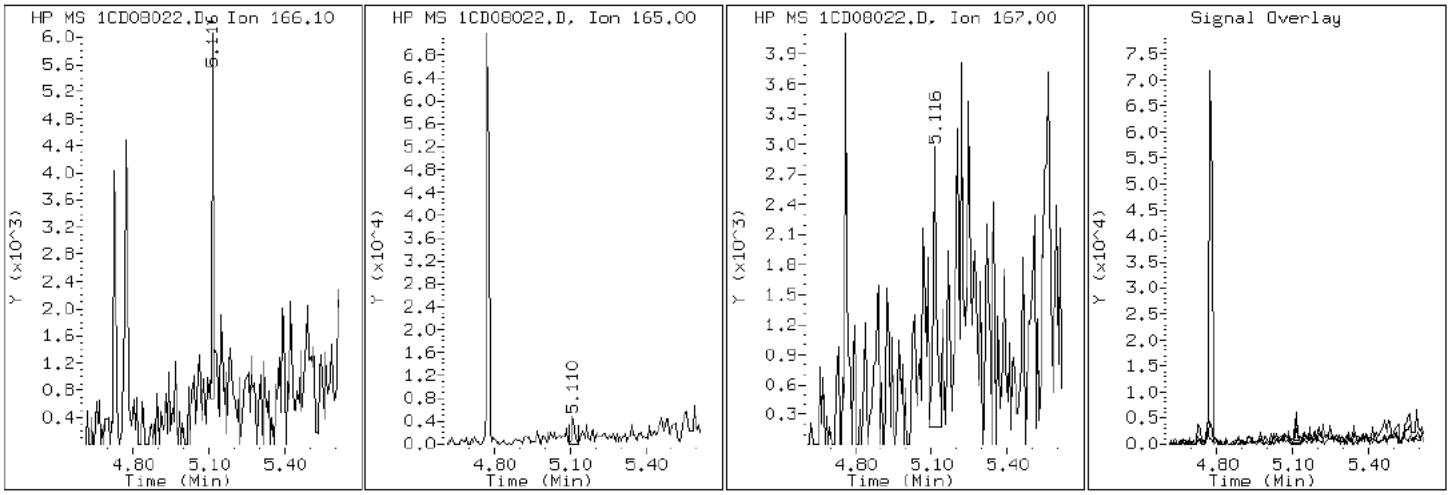
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

9 Fluorene



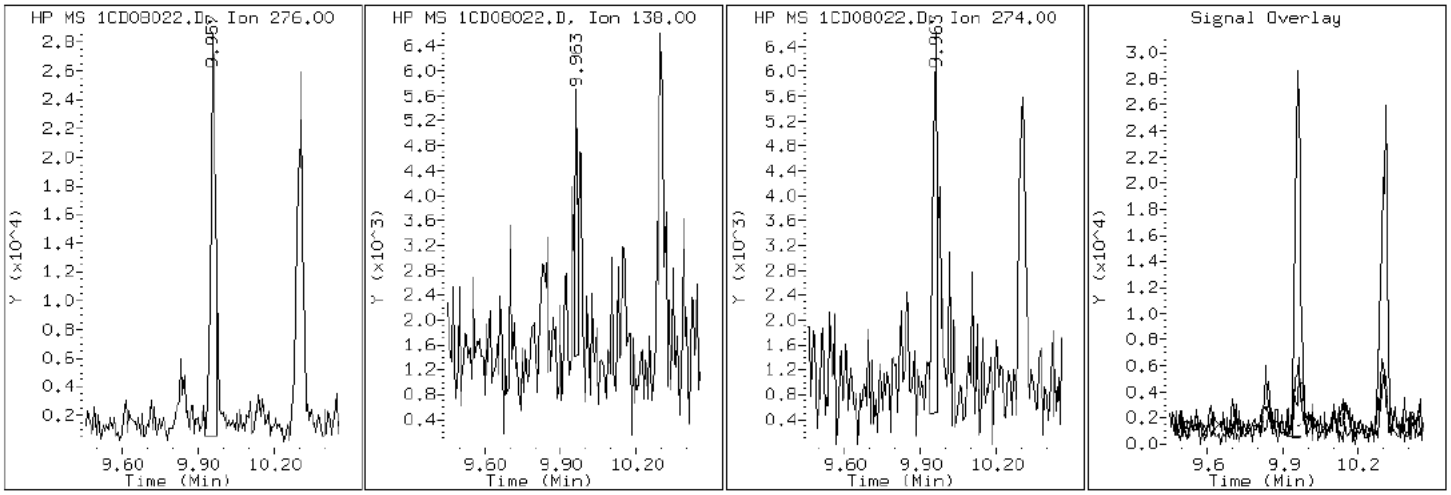
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

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



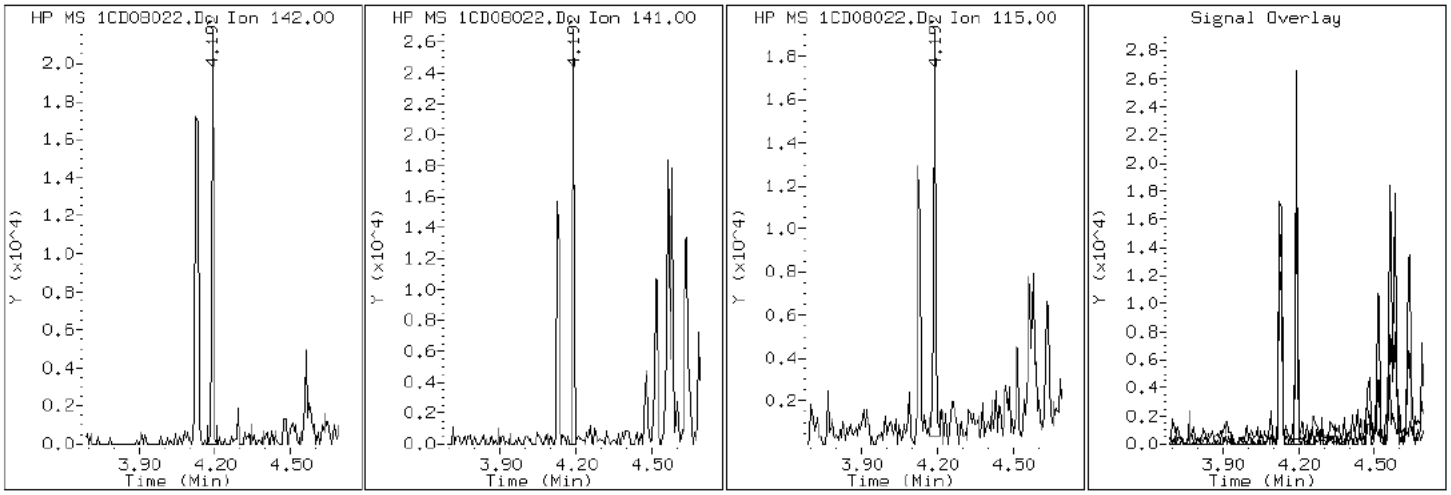
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

4 1-Methylnaphthalene



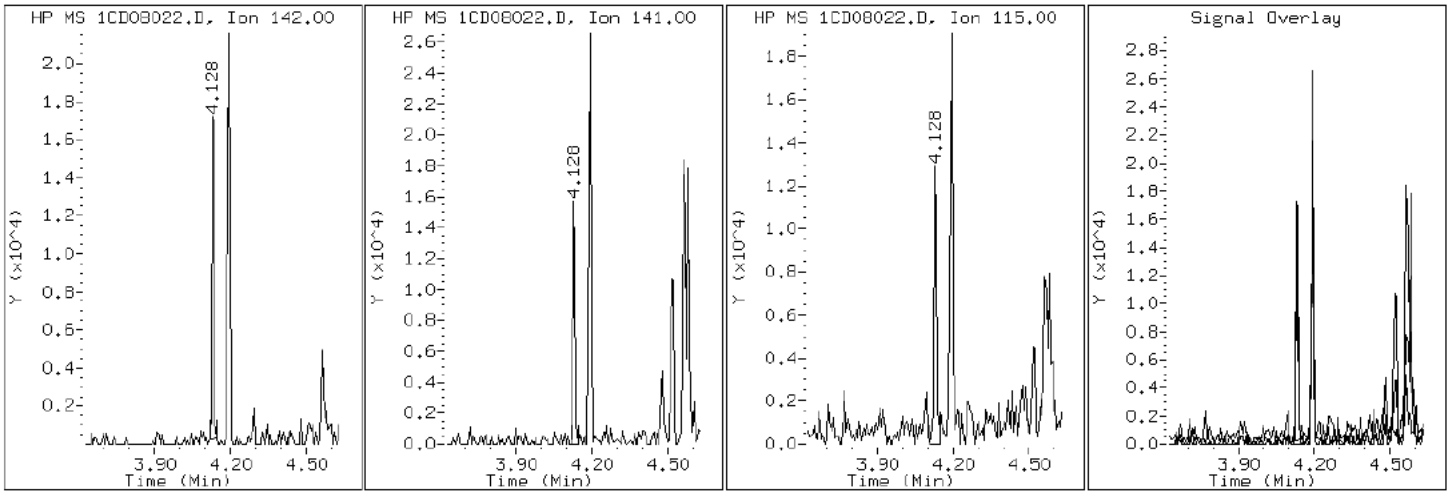
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

3 2-Methylnaphthalene



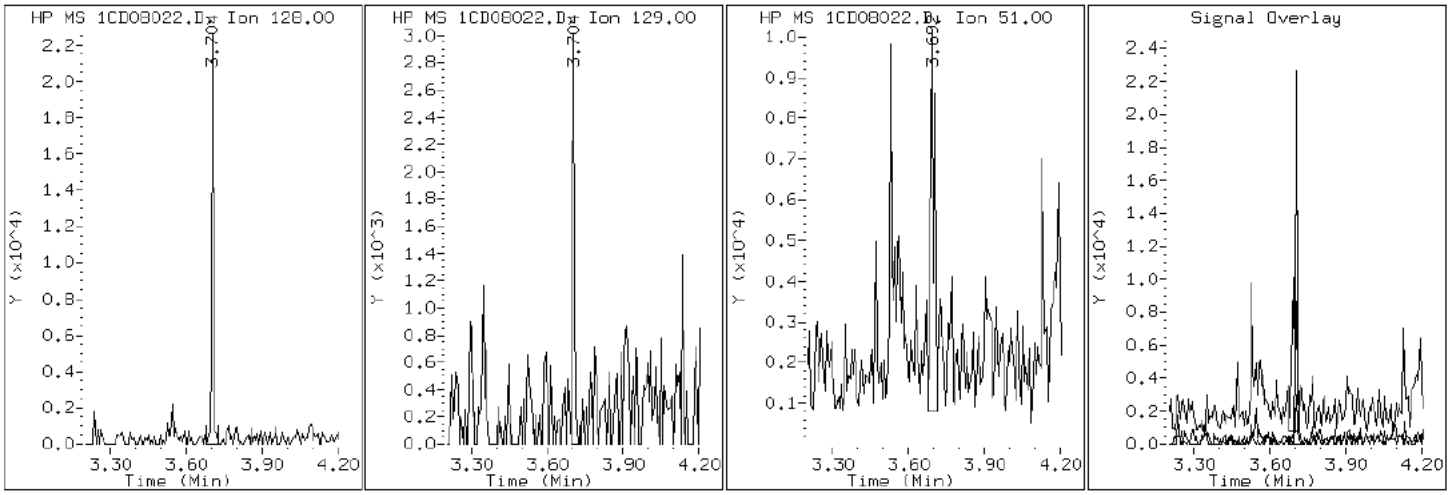
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

2 Naphthalene



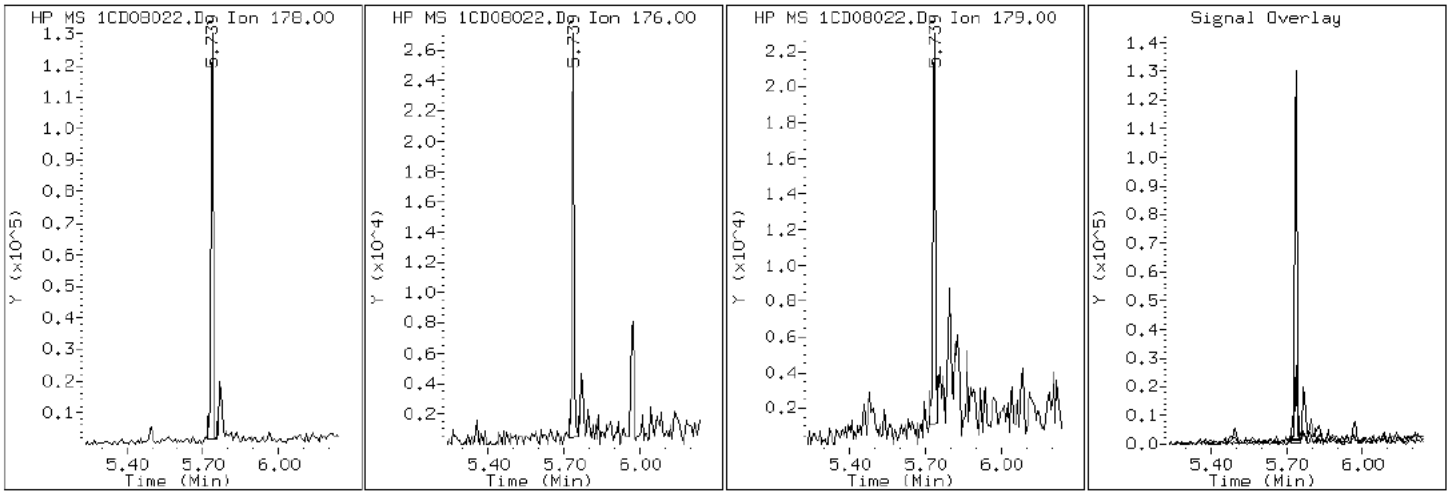
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

11 Phenanthrene



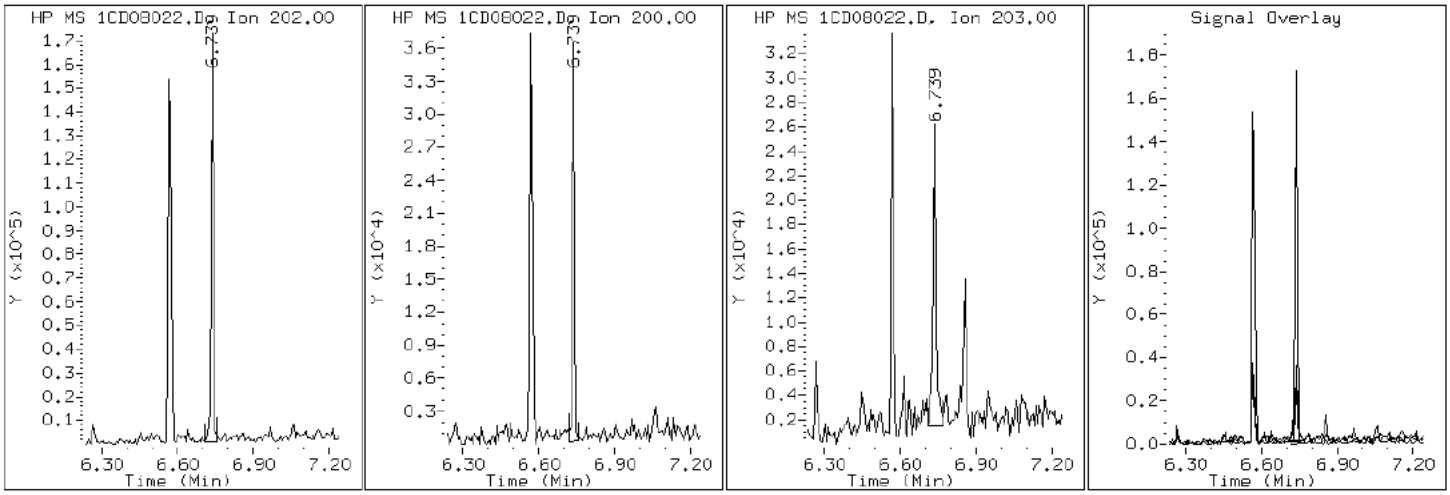
Data File: 1CD08022.D

Date: 08-APR-2013 18:57

Client ID: CV1043B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-30-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08022.D
Inj. Date and Time: 08-APR-2013 18:57
Instrument ID: BSMC5973.i
Client ID: CV1043B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

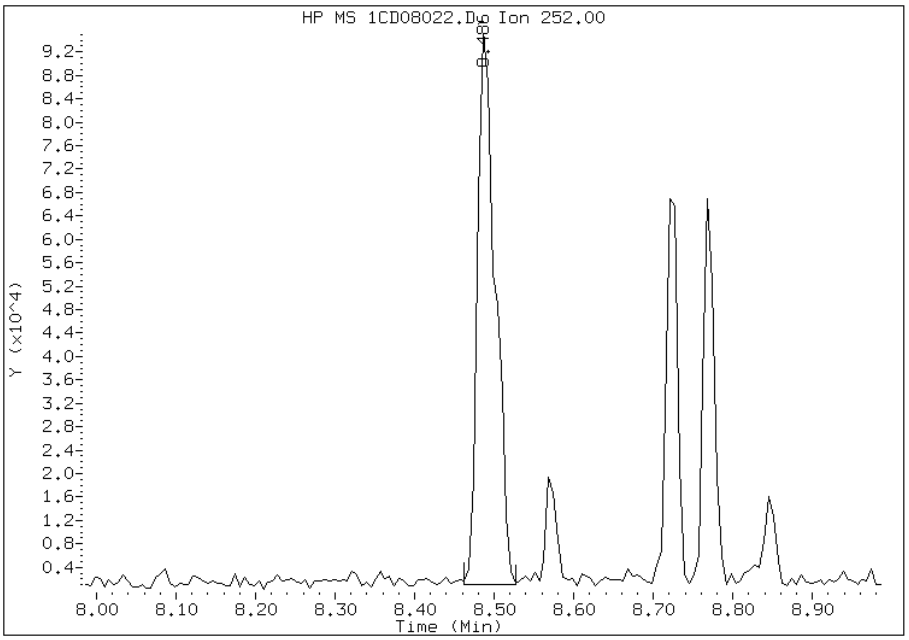
Processing Integration Results

RT: 8.49

Response: 146235

Amount: 8

Conc: 726



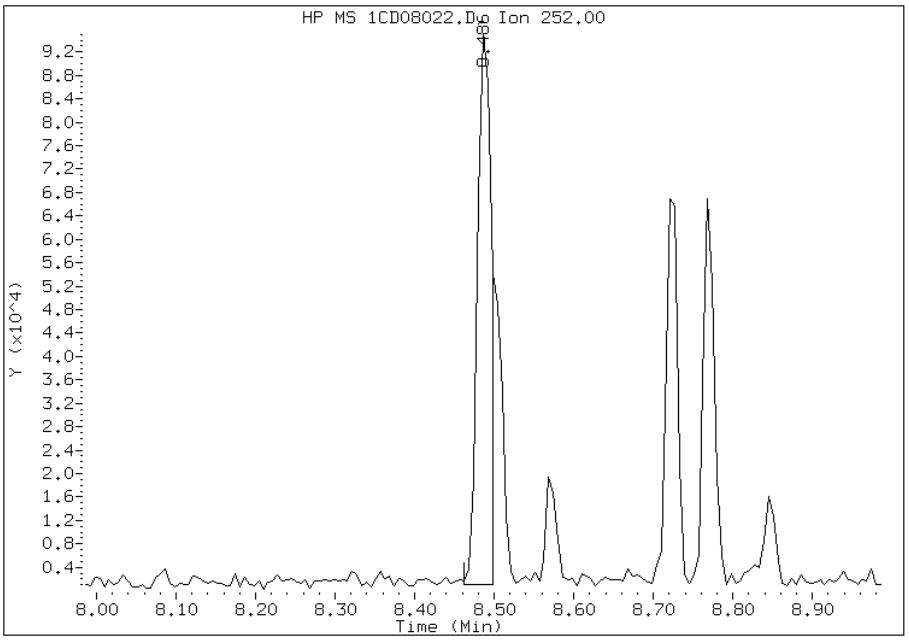
Manual Integration Results

RT: 8.49

Response: 112931

Amount: 6

Conc: 561



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08022.D
Inj. Date and Time: 08-APR-2013 18:57
Instrument ID: BSMC5973.i
Client ID: CV1043B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

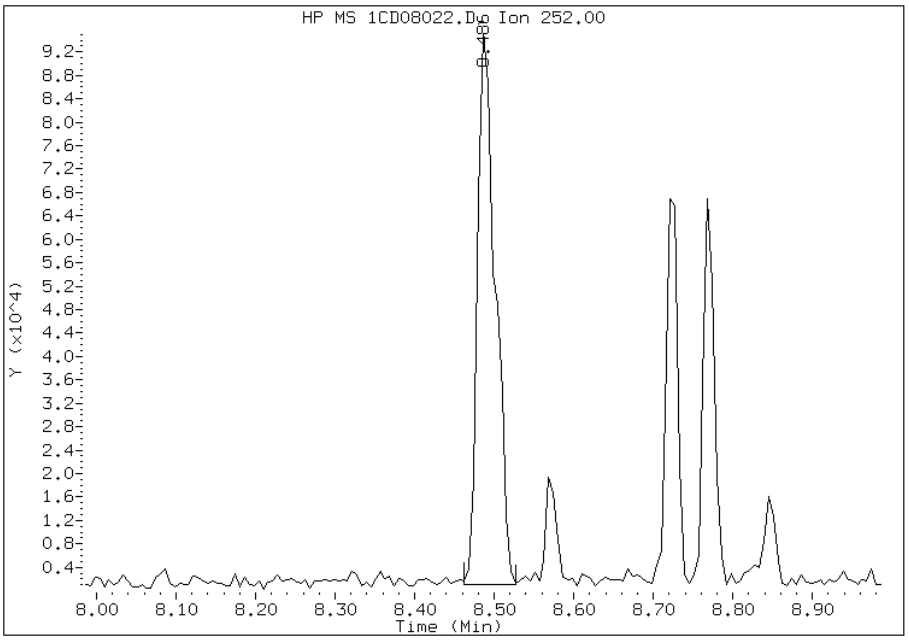
Processing Integration Results

RT: 8.49

Response: 146546

Amount: 9

Conc: 752



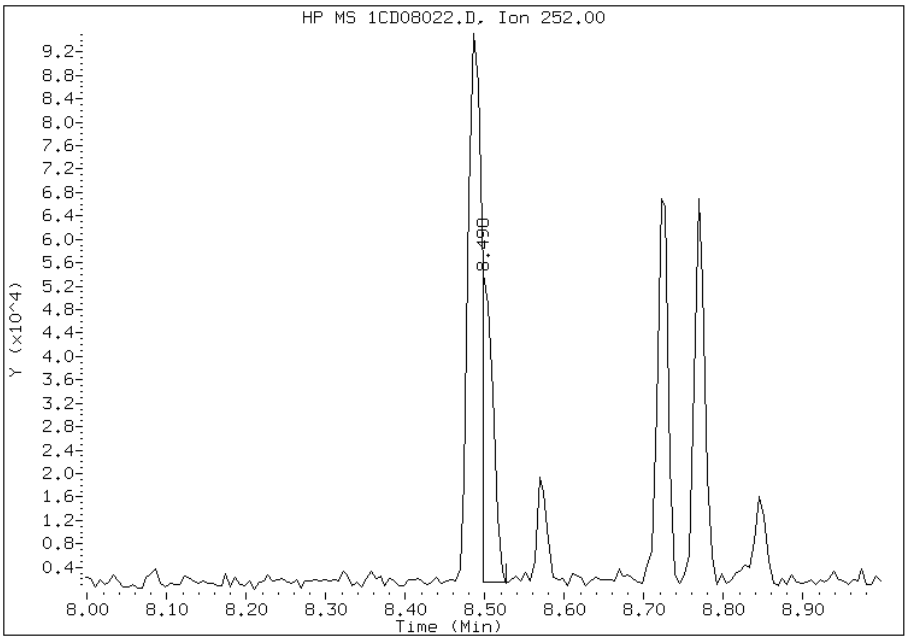
Manual Integration Results

RT: 8.50

Response: 51488

Amount: 3

Conc: 264



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08022.D
Inj. Date and Time: 08-APR-2013 18:57
Instrument ID: BSMC5973.i
Client ID: CV1043B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

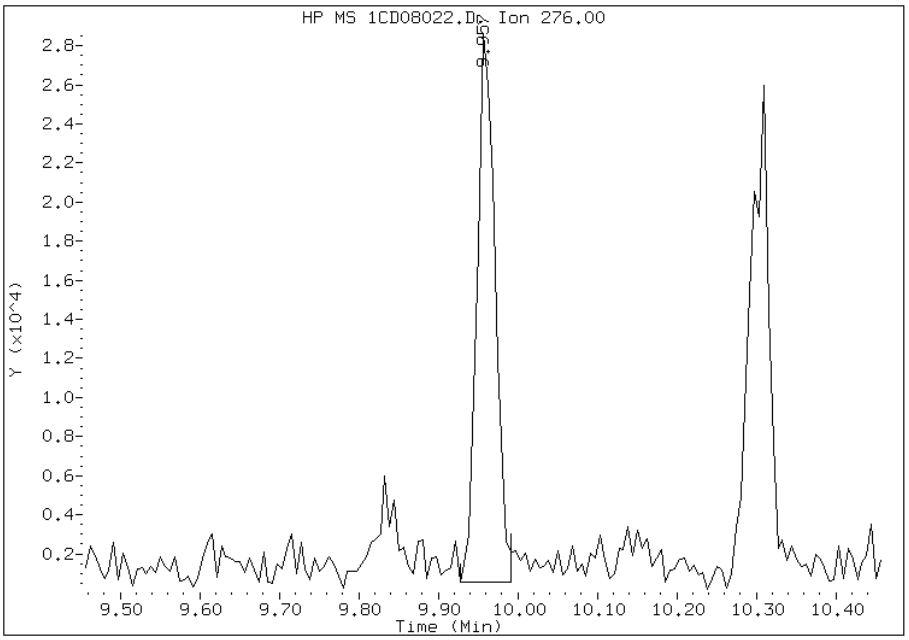
Processing Integration Results

RT: 9.96

Response: 44092

Amount: 3

Conc: 245



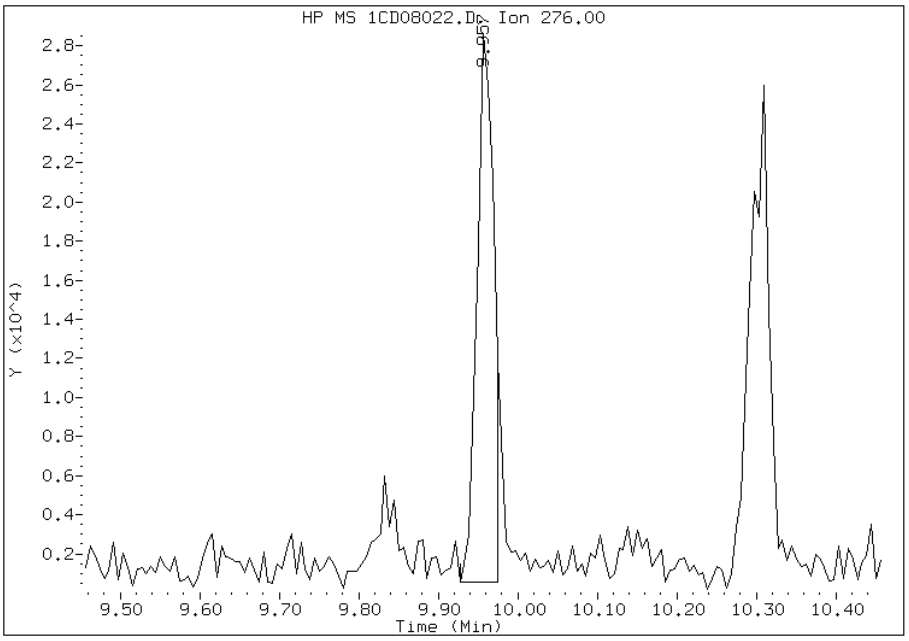
Manual Integration Results

RT: 9.96

Response: 40730

Amount: 3

Conc: 226



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1049A-CS | Lab Sample ID: 680-88811-31

Matrix: Solid | Lab File ID: 1CD08023.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:10

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.07(g) | Date Analyzed: 04/08/2013 19:15

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

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

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

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31	J	120	25
208-96-8	Acenaphthylene	21	J	50	6.2
120-12-7	Anthracene	61		10	5.2
56-55-3	Benzo[a]anthracene	1400		10	4.9
50-32-8	Benzo[a]pyrene	2200		13	6.5
191-24-2	Benzo[g,h,i]perylene	1800		25	5.5
207-08-9	Benzo[k]fluoranthene	1400		10	4.5
218-01-9	Chrysene	1800		11	5.6
53-70-3	Dibenz(a,h)anthracene	740		25	5.1
206-44-0	Fluoranthene	1000		25	5.0
86-73-7	Fluorene	28		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	1700		25	8.8
90-12-0	1-Methylnaphthalene	130		50	5.5
91-57-6	2-Methylnaphthalene	140		50	8.8
91-20-3	Naphthalene	90		50	5.5
85-01-8	Phenanthrene	460		10	4.9
129-00-0	Pyrene	1200		25	4.6

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\1C040813.b\1CD08023.D
Lab Smp Id: 680-88811-A-31-A Client Smp ID: CV1049A-CS
Inj Date : 08-APR-2013 19:15
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-31-A
Misc Info : 680-88811-A-31-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	20.127	% 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	3.692	3.692	(1.000)	512430	40.0000	
*	6 Acenaphthene-d10	164	4.780	4.774	(1.000)	363098	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	676362	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	63527	6.47971	538.3233
*	18 Chrysene-d12	240	7.657	7.656	(1.000)	682677	40.0000	
*	23 Perylene-d12	264	8.827	8.821	(1.000)	617994	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	14296	1.08619	90.2384
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	14672	1.63762	136.0505
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	13010	1.61381	134.0725
	5 Acenaphthylene	152	4.692	4.686	(0.982)	3717	0.24734	20.5487
	7 Acenaphthene	154	4.798	4.798	(1.004)	3512	0.37732	31.3472
	9 Fluorene	166	5.116	5.115	(1.070)	4238	0.34155	28.3754(Q)
	11 Phenanthrene	178	5.739	5.739	(1.003)	108069	5.48607	455.7730
	12 Anthracene	178	5.768	5.768	(1.008)	14774	0.73985	61.4657

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	10598	0.61947	51.4644
15 Fluoranthene	202	6.574	6.568	(1.149)	263992	12.1349	1008.1427
16 Pyrene	202	6.739	6.739	(0.880)	279976	14.8052	1229.9886
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	335158	17.0795	1418.9333
19 Chrysene	228	7.680	7.674	(1.003)	421513	21.6679	1800.1340
20 Benzo(b)fluoranthene	252	8.492	8.486	(0.962)	898252	51.4133	4271.3240(AM)
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.963)	277004	16.3929	1361.8929(M)
22 Benzo(a)pyrene	252	8.774	8.768	(0.994)	439102	26.6952	2217.7884
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	320200	20.4952	1702.7039(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.130)	128234	8.88531	738.1759
26 Benzo(g,h,i)perylene	276	10.309	10.297	(1.168)	341437	21.4130	1778.9535

QC Flag Legend

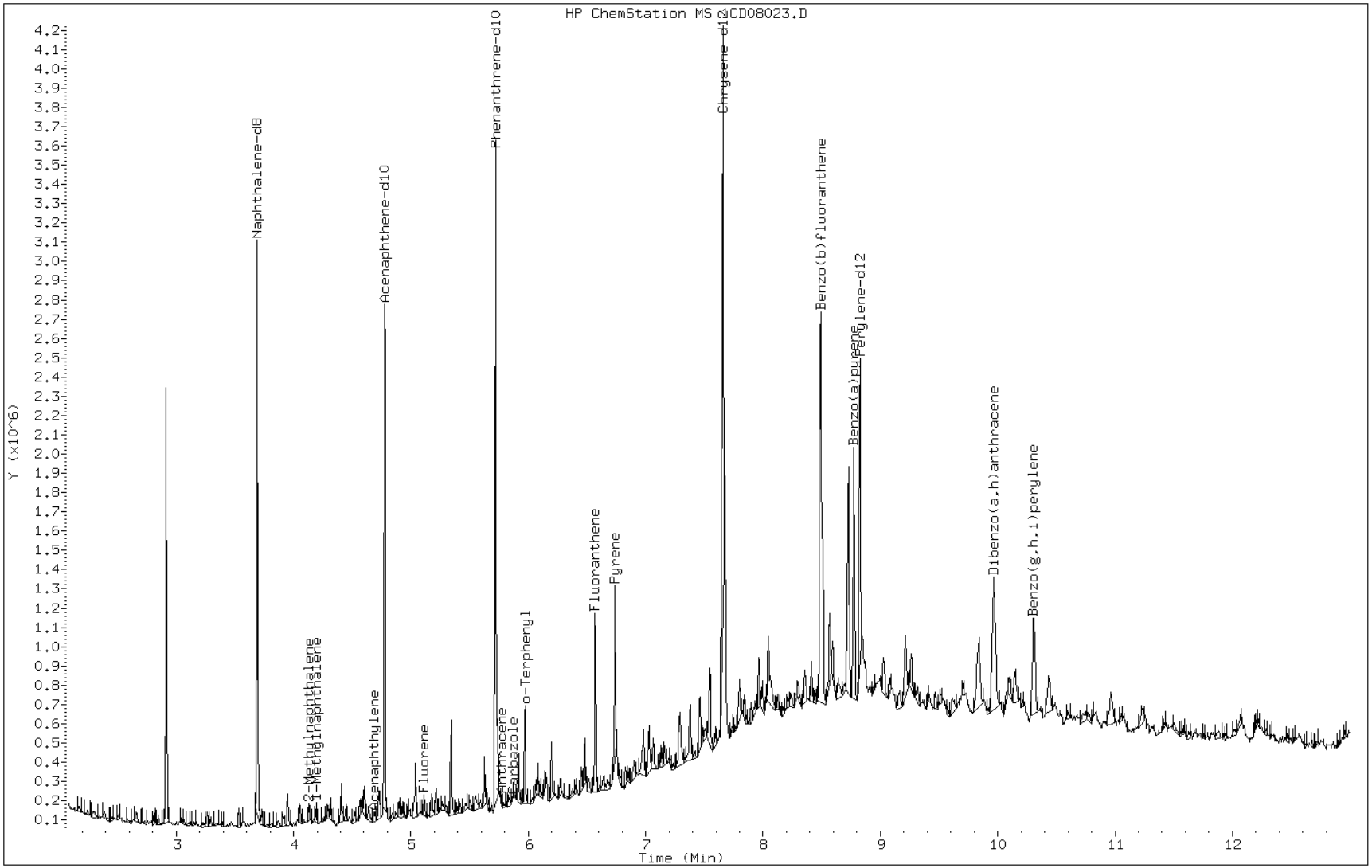
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP



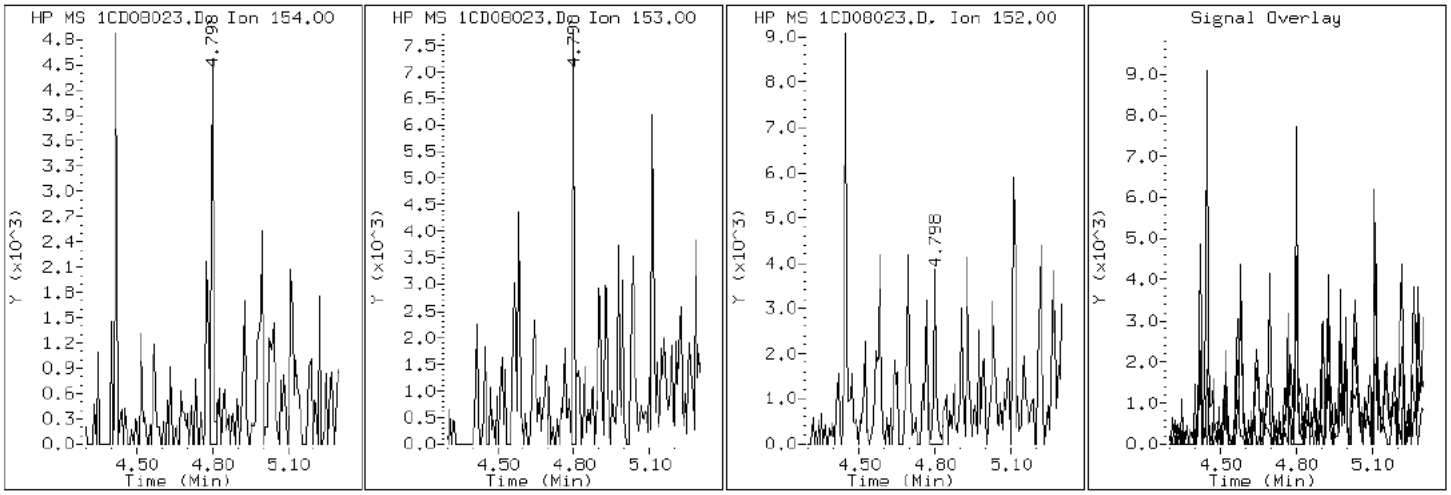
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

7 Acenaphthene



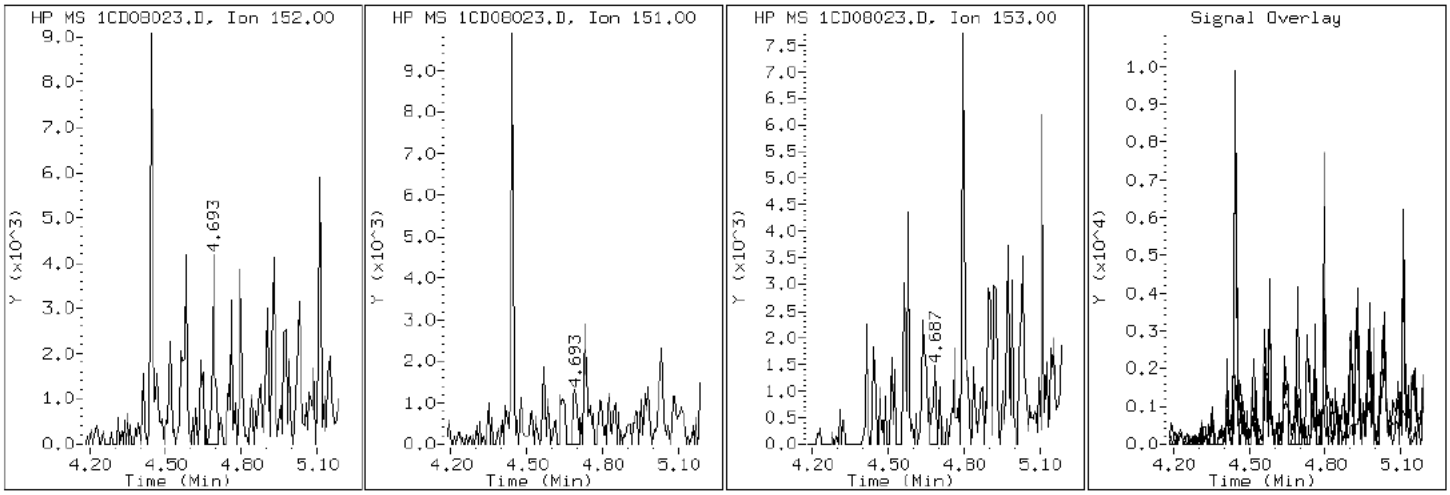
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

5 Acenaphthylene



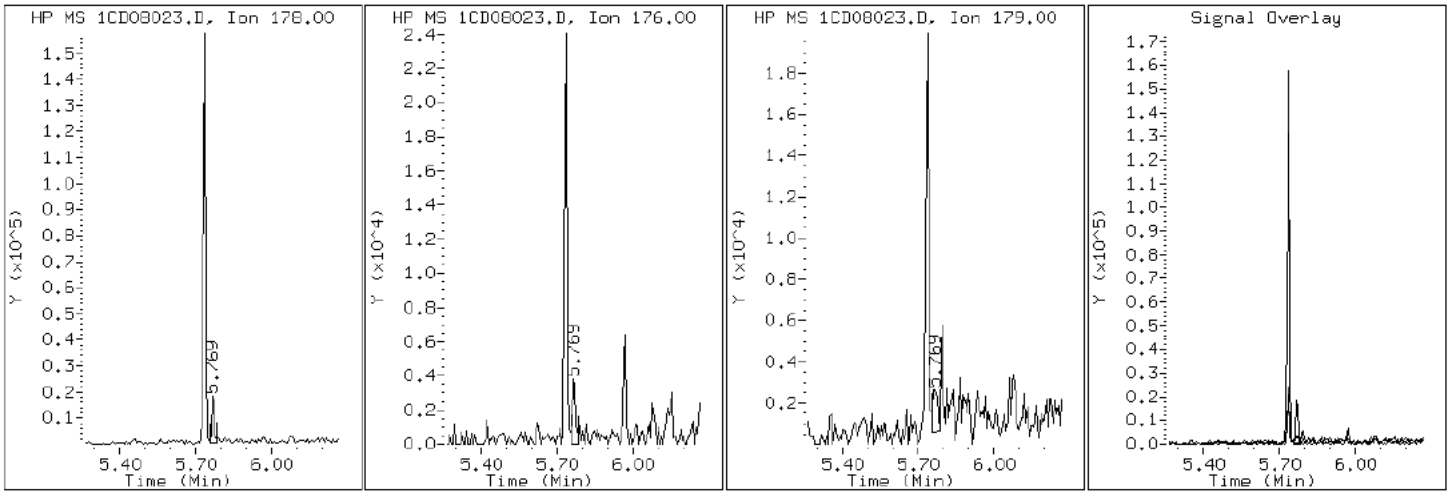
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

12 Anthracene



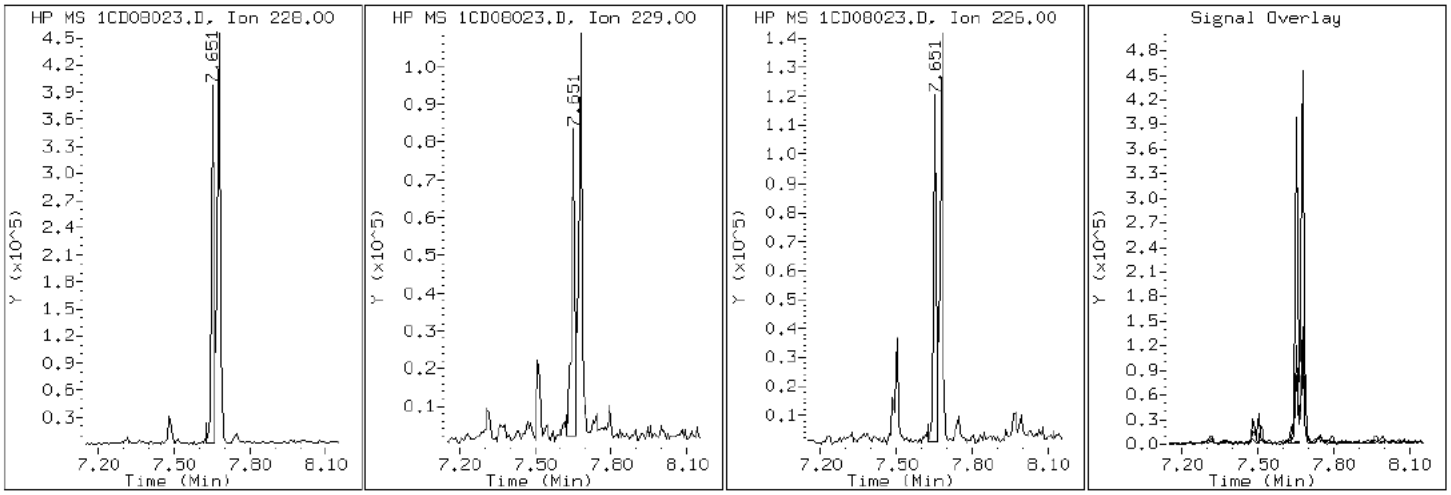
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

17 Benzo(a)anthracene



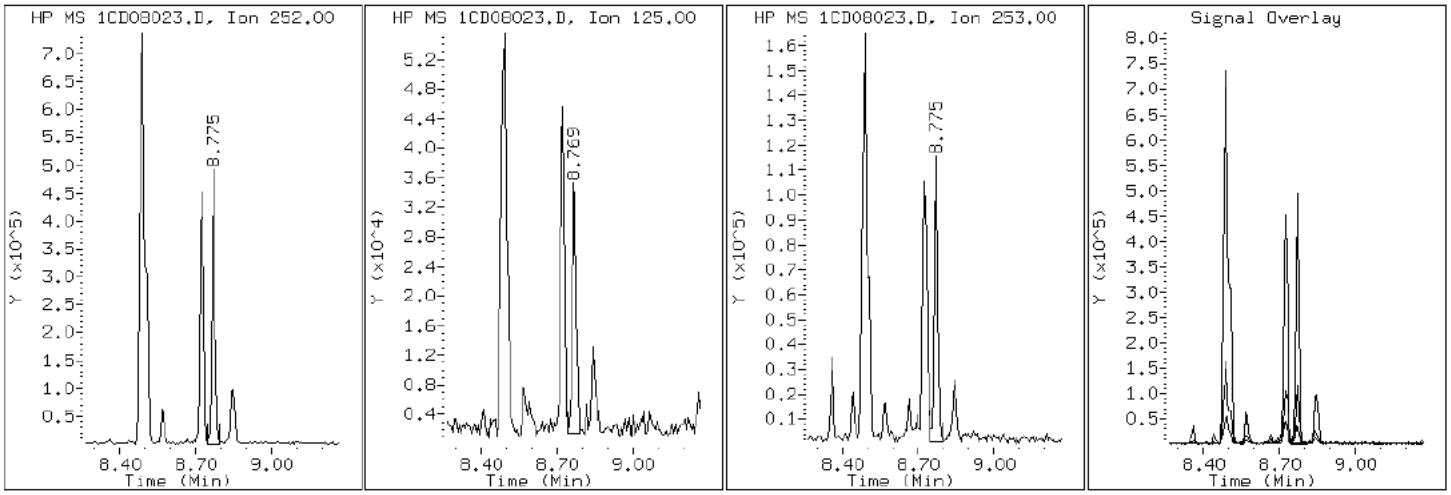
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

22 Benzo(a)pyrene



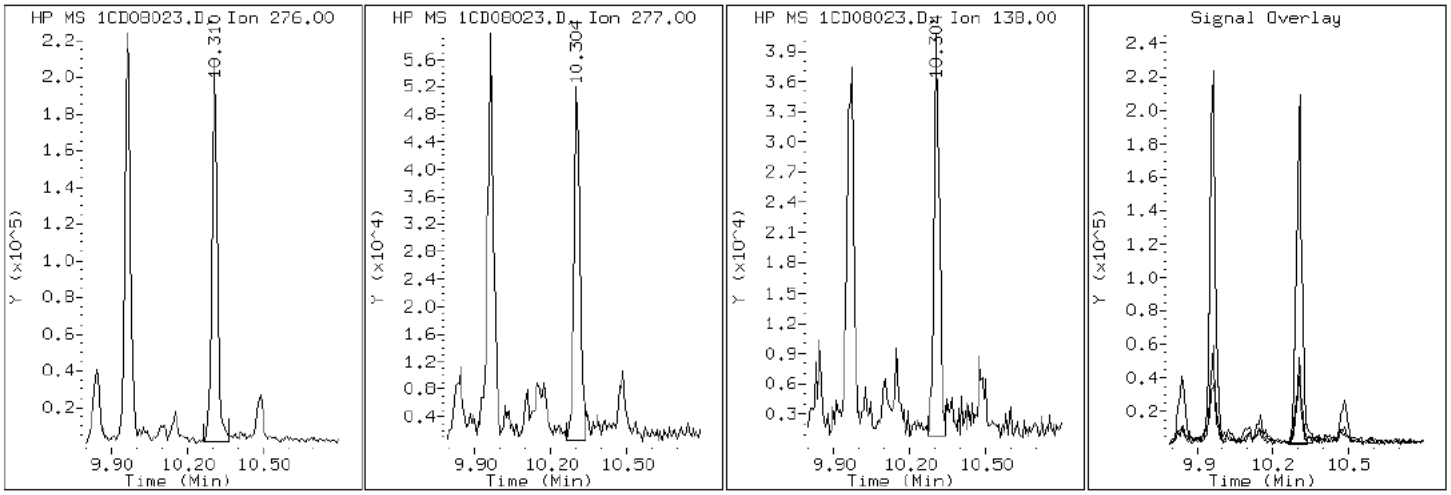
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

26 Benzo(g,h,i)perylene



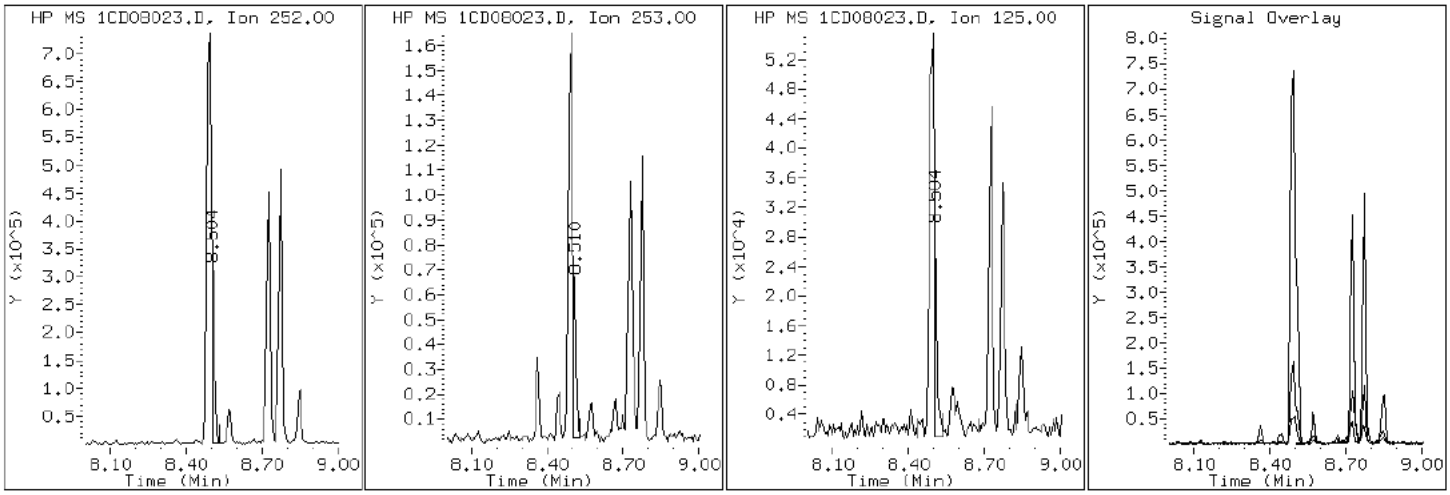
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

21 Benzo(k)fluoranthene



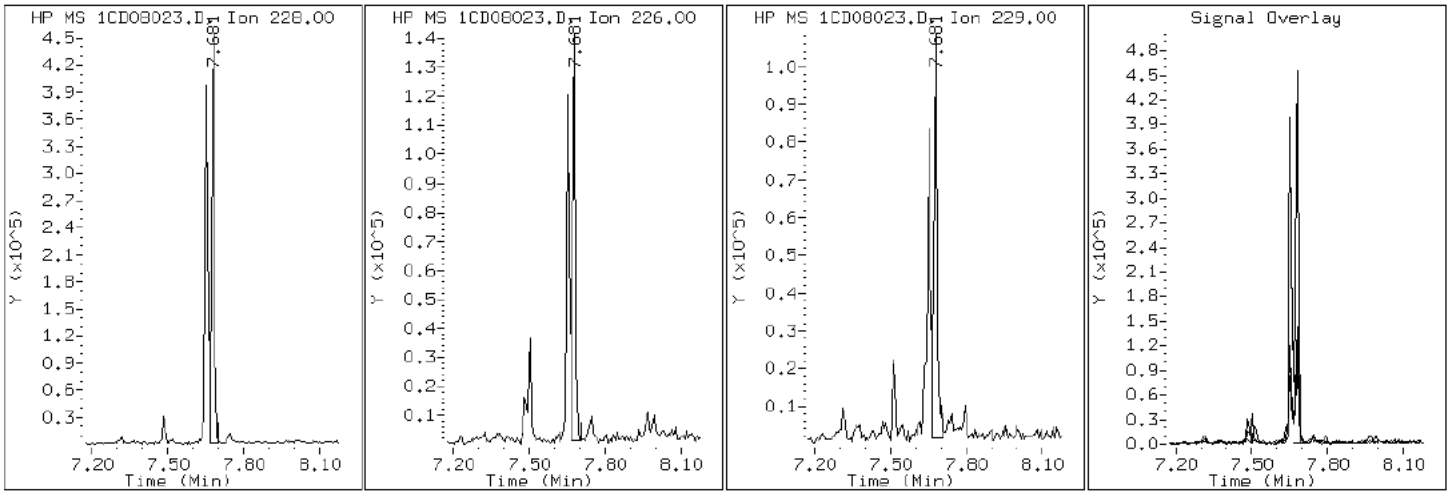
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

19 Chrysene



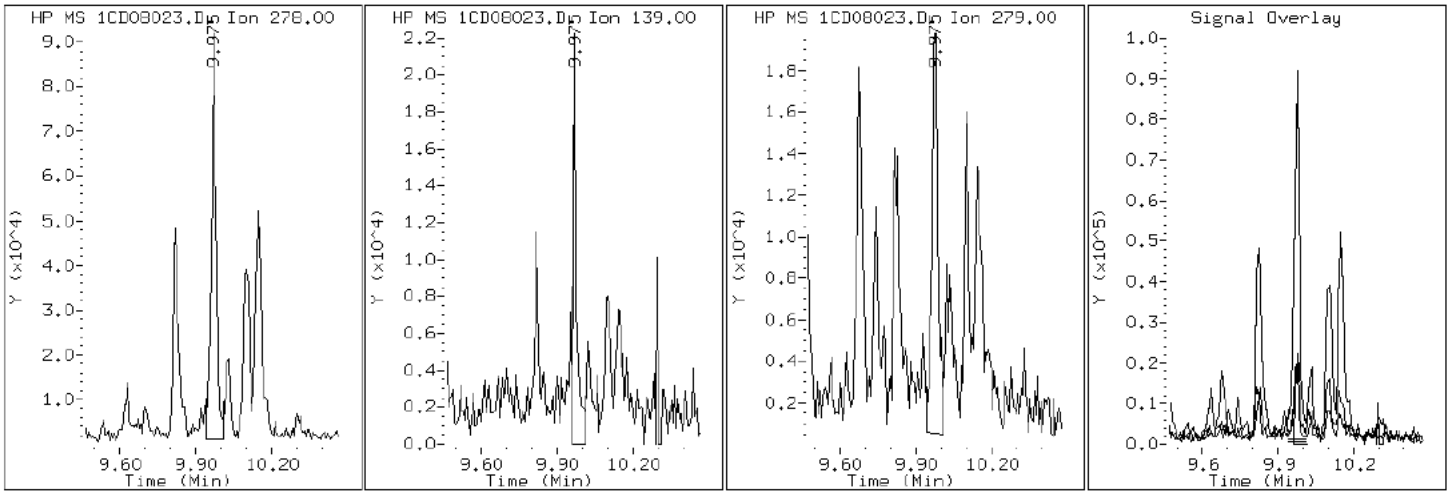
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

25 Dibenzo(a,h)anthracene



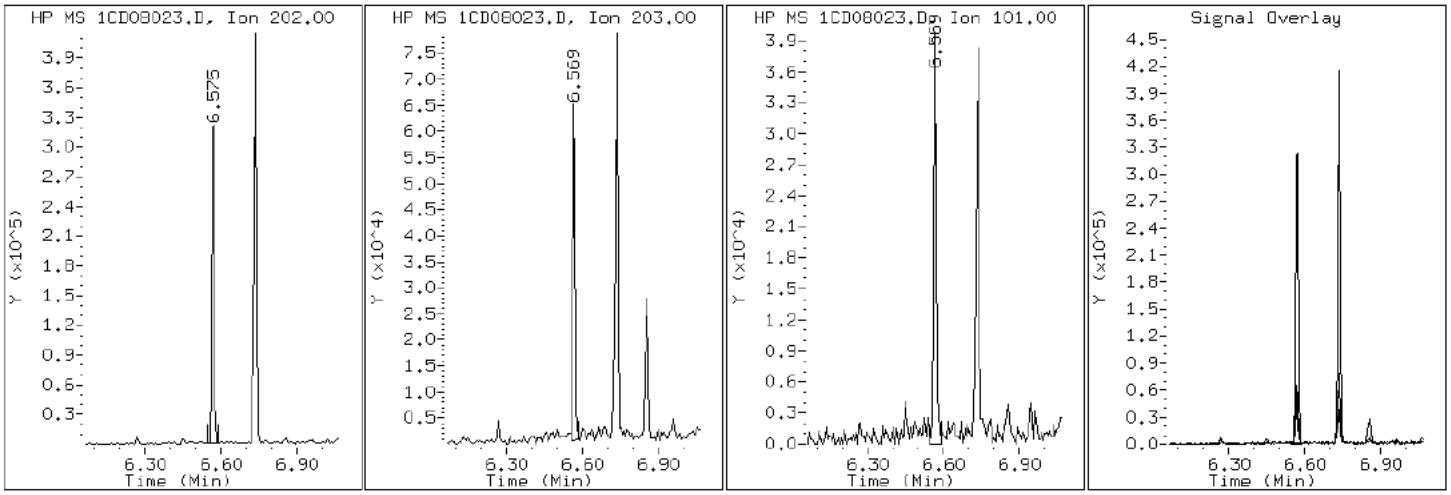
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

15 Fluoranthene



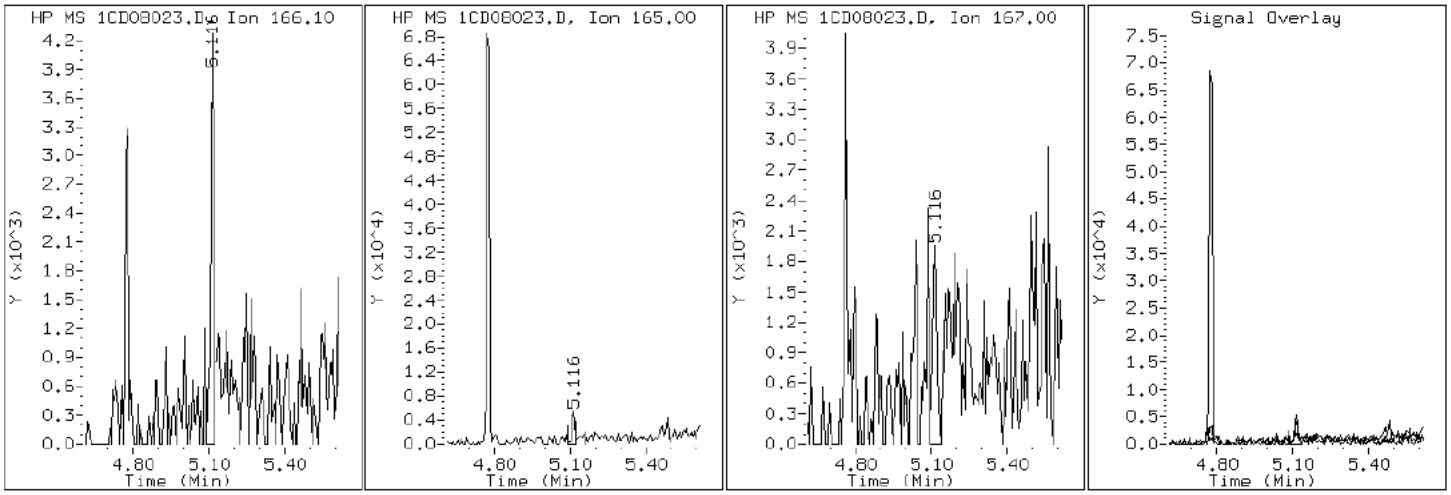
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

9 Fluorene



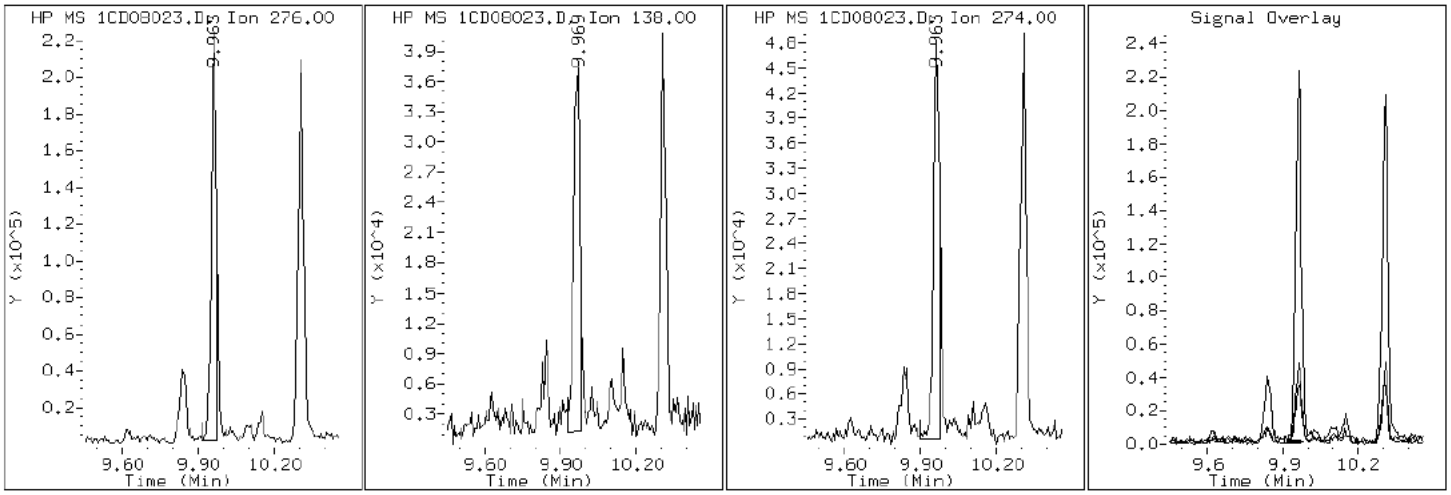
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

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



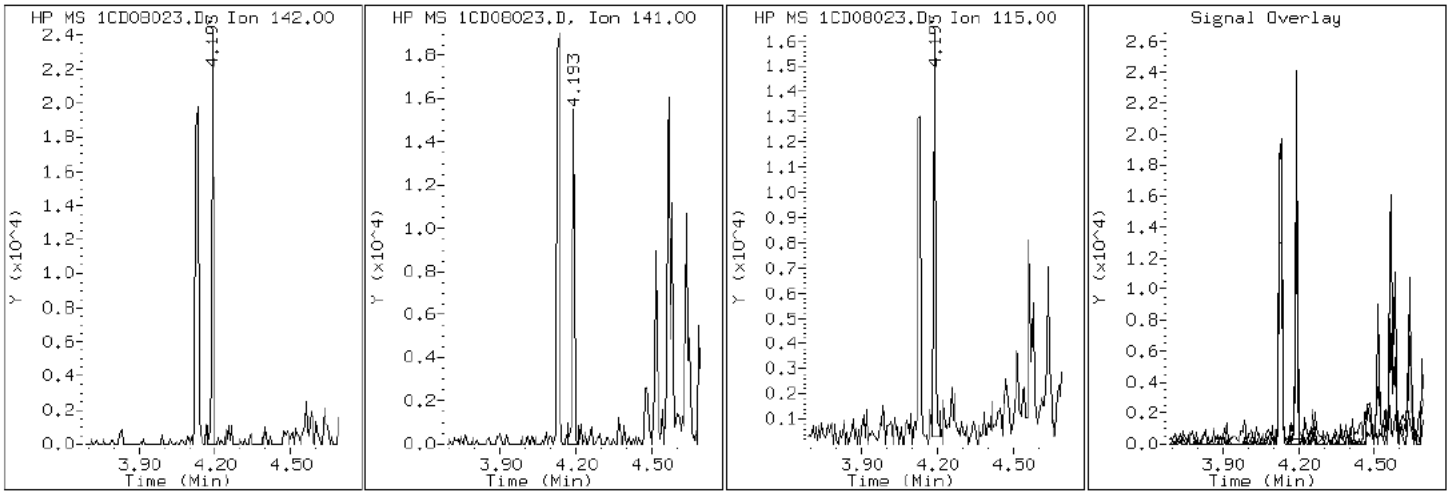
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

4 1-Methylnaphthalene



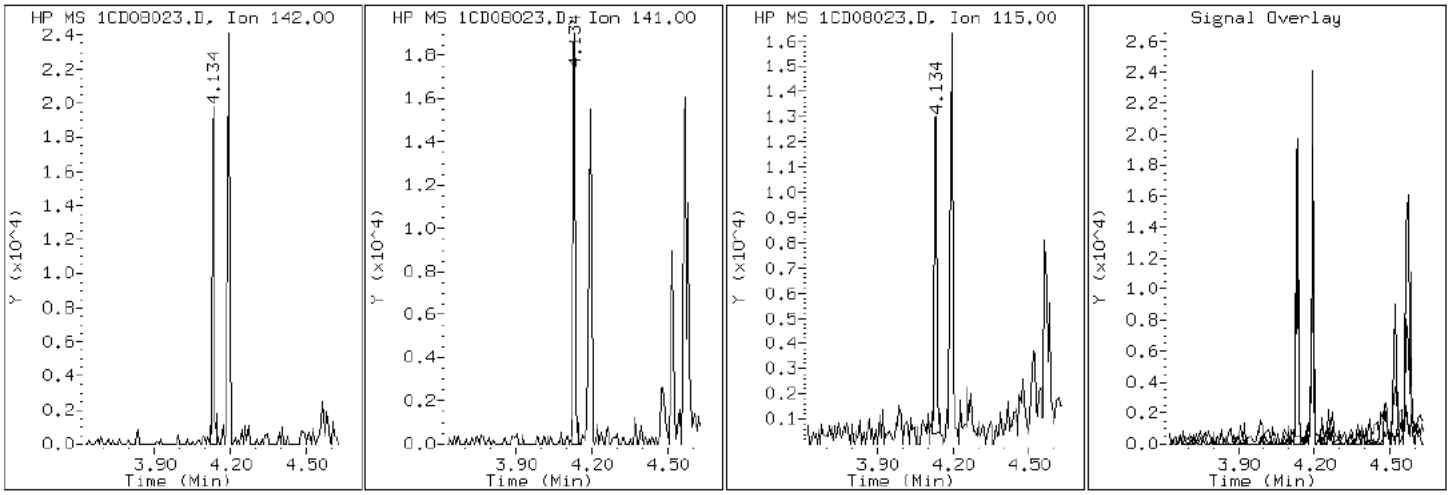
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

3 2-Methylnaphthalene



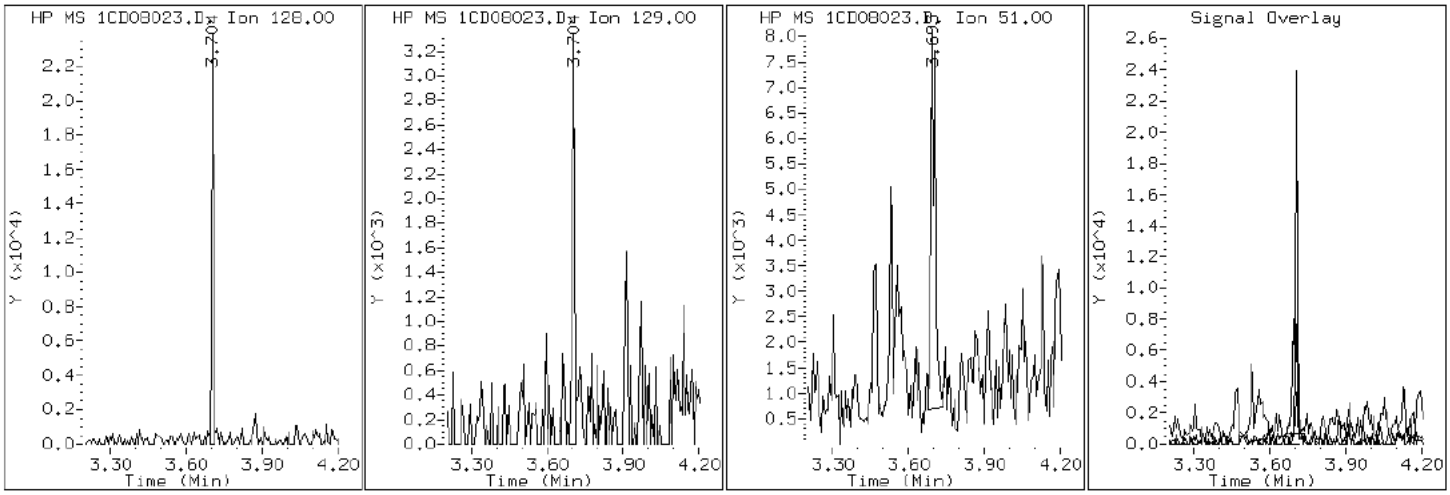
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

2 Naphthalene



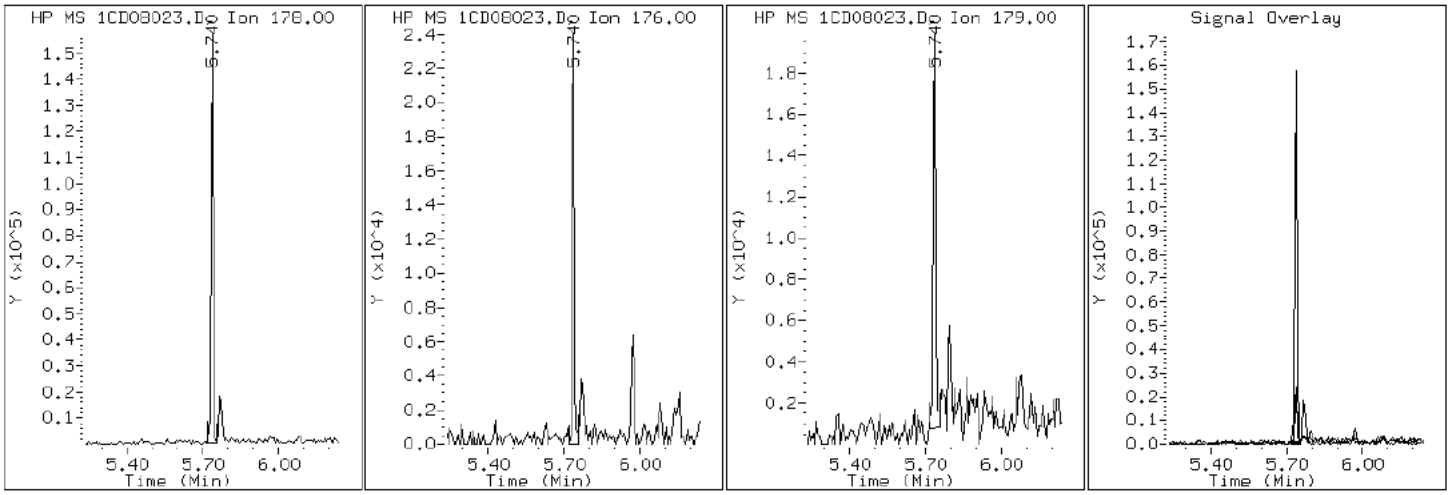
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

11 Phenanthrene



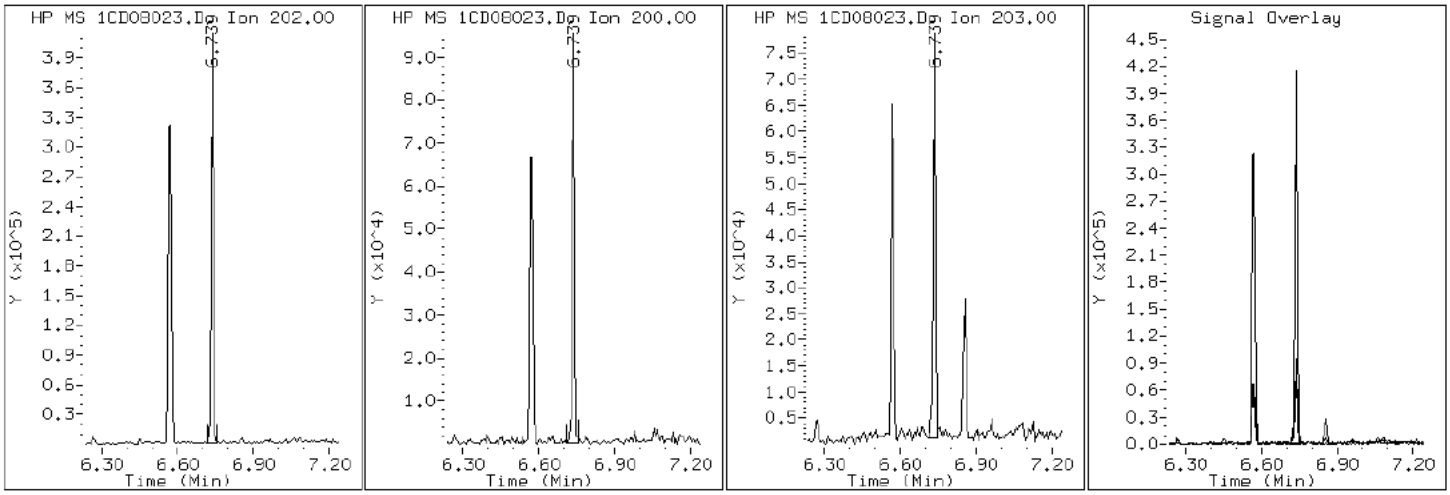
Data File: 1CD08023.D

Date: 08-APR-2013 19:15

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-31-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08023.D
Inj. Date and Time: 08-APR-2013 19:15
Instrument ID: BSMC5973.i
Client ID: CV1049A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

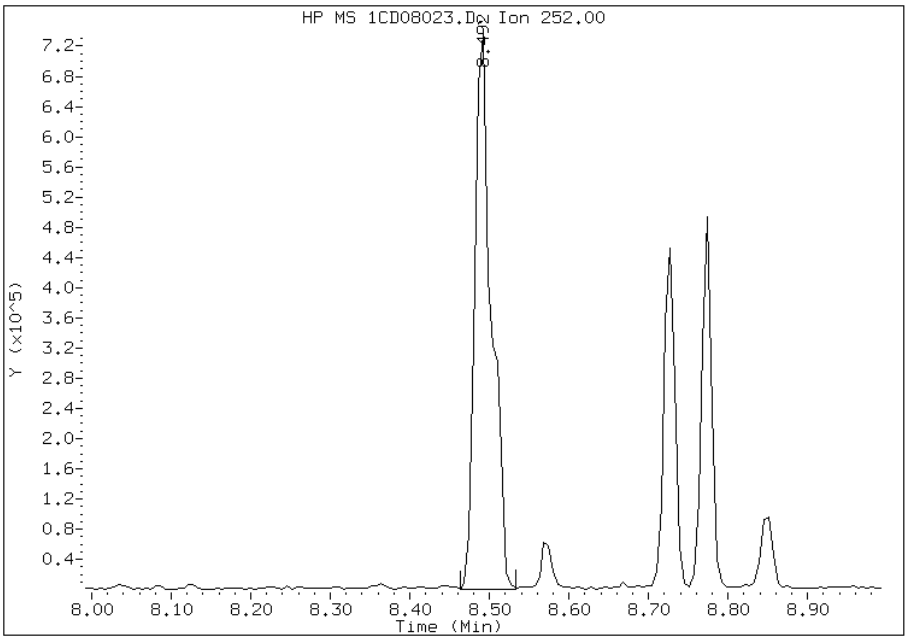
Processing Integration Results

RT: 8.49

Response: 1064310

Amount: 63

Conc: 5233



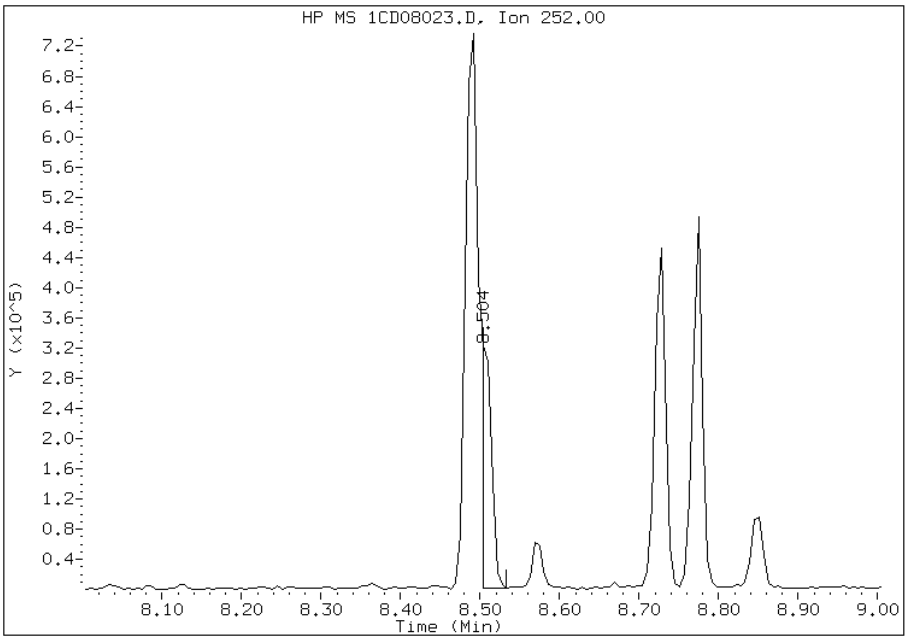
Manual Integration Results

RT: 8.50

Response: 277004

Amount: 16

Conc: 1362



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08023.D
Inj. Date and Time: 08-APR-2013 19:15
Instrument ID: BSMC5973.i
Client ID: CV1049A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

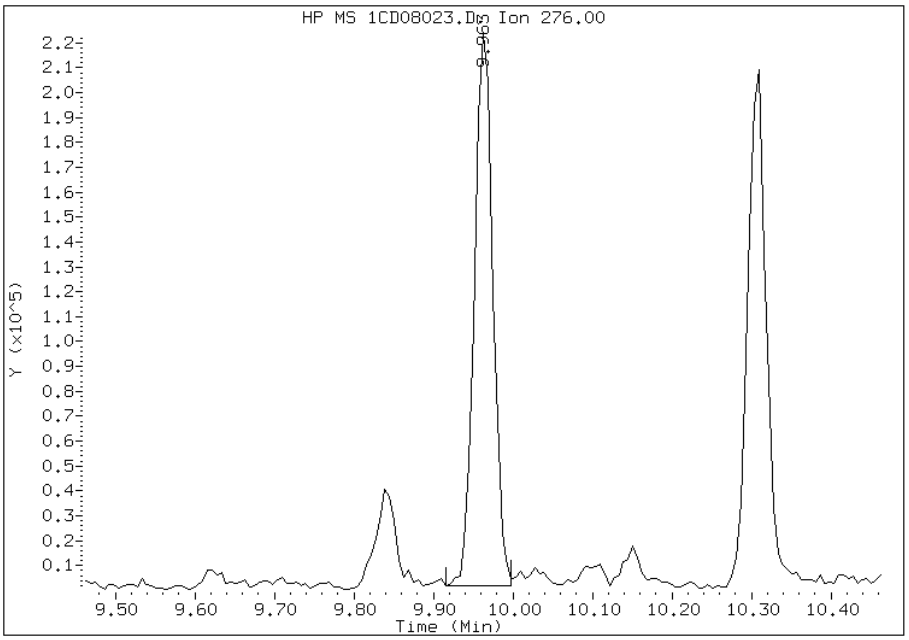
Processing Integration Results

RT: 9.96

Response: 356015

Amount: 23

Conc: 1893



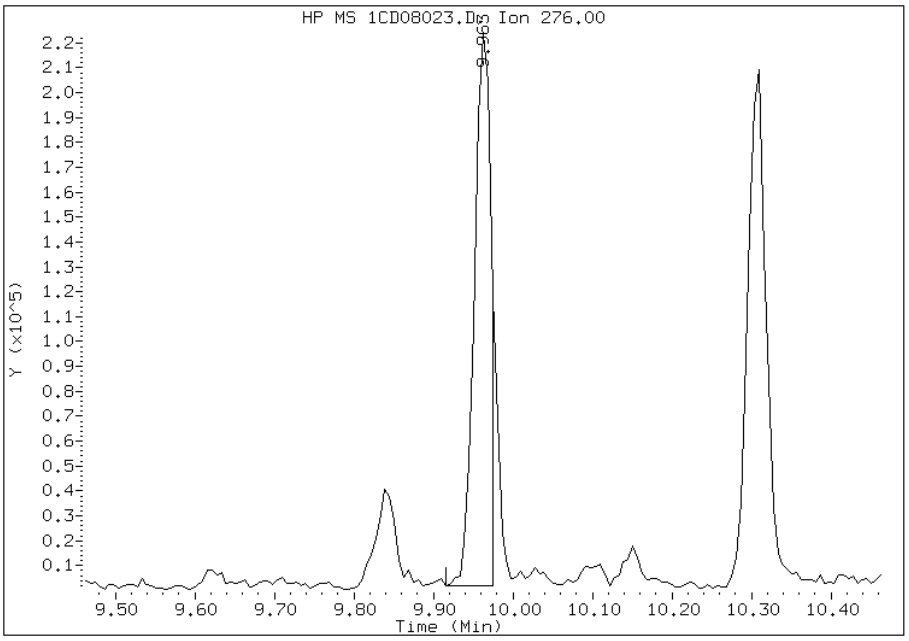
Manual Integration Results

RT: 9.96

Response: 320200

Amount: 20

Conc: 1703



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1049A-CS DL | Lab Sample ID: 680-88811-31 DL

Matrix: Solid | Lab File ID: 1CD10011.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:10

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.07(g) | Date Analyzed: 04/10/2013 14:37

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

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

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

Analysis Batch No.: 136309 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	3100		61	30

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10011.D
Lab Smp Id: 680-88811-A-31-A Client Smp ID: CV1049A-CS
Inj Date : 10-APR-2013 14:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-31-a
Misc Info : 680-88811-A-31-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	20.127	% 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	3.680	3.680	(1.000)	435564	40.0000	
* 6 Acenaphthene-d10	164	4.769	4.768	(1.000)	323669	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	604064	40.0000	
$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	12684	2.01182	668.5536
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	677653	40.0000	
* 23 Perylene-d12	264	8.809	8.809	(1.000)	643314	40.0000	
2 Naphthalene	128	3.692	3.692	(1.003)	3209	0.28684	95.3211(Q)
3 2-Methylnaphthalene	142	4.122	4.121	(1.120)	3264	0.42860	142.4306
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	2541	0.37082	123.2280
11 Phenanthrene	178	5.727	5.727	(1.003)	16313	0.92724	308.1325
12 Anthracene	178	5.763	5.763	(1.009)	3073	0.17231	57.2603
13 Carbazole	167	5.874	5.868	(1.029)	2392	0.15655	52.0236
15 Fluoranthene	202	6.557	6.557	(1.148)	50976	2.62365	871.8730
16 Pyrene	202	6.727	6.727	(0.880)	51304	2.73308	908.2374

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	64187	3.40465	1131.4087
19 Chrysene	228	7.662	7.668	(1.002)	83071	4.30193	1429.5890
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	169803	9.33649	3102.6367(M)
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.964)	56220	3.19611	1062.1088(QM)
22 Benzo(a)pyrene	252	8.757	8.756	(0.994)	82925	4.84300	1609.3904
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.939	(1.128)	60695	3.73203	1240.2006(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.950	(1.128)	23647	1.57401	523.0630
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	86471	5.20953	1731.1940

QC Flag Legend

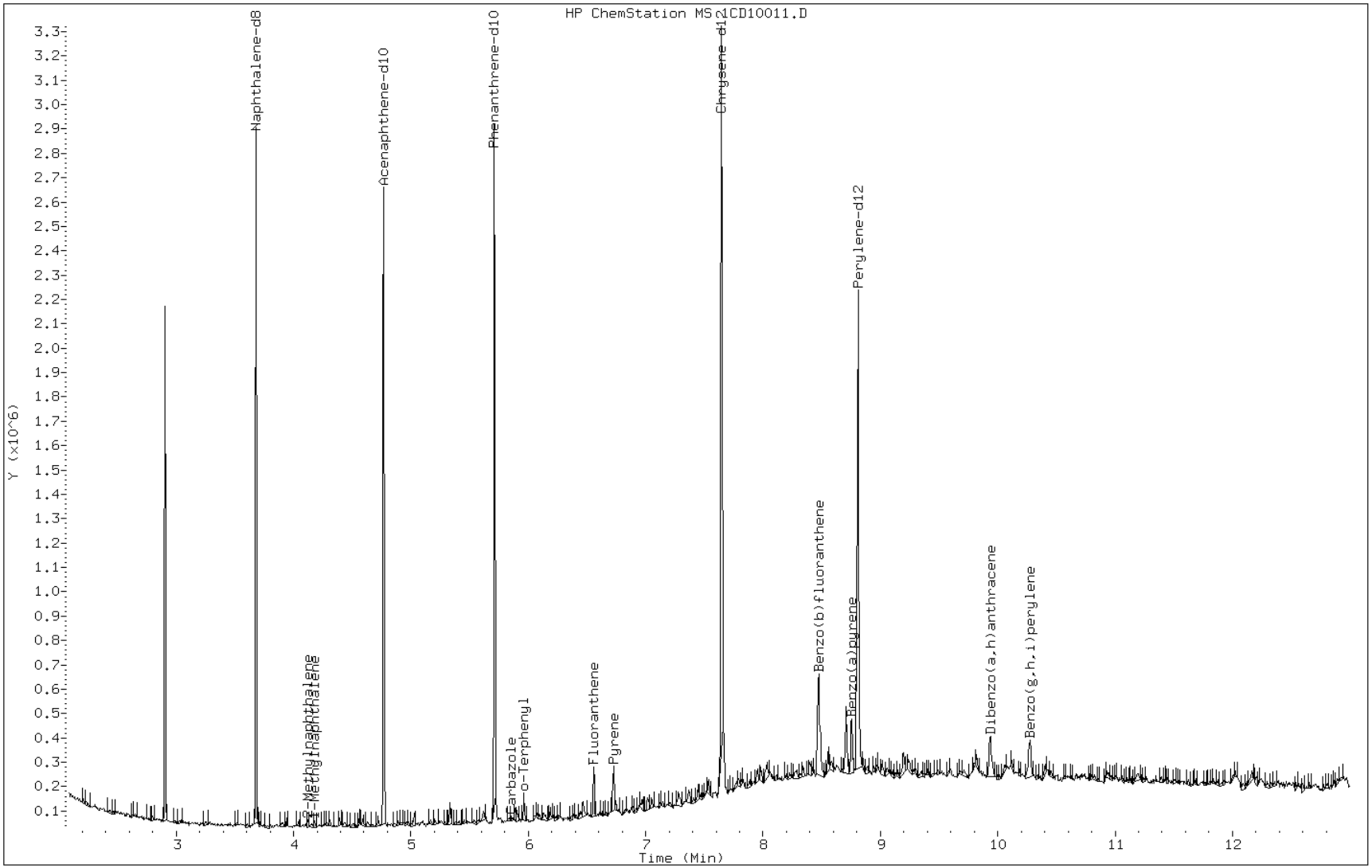
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD10011.D

Date: 10-APR-2013 14:37

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-31-a Operator: SCC



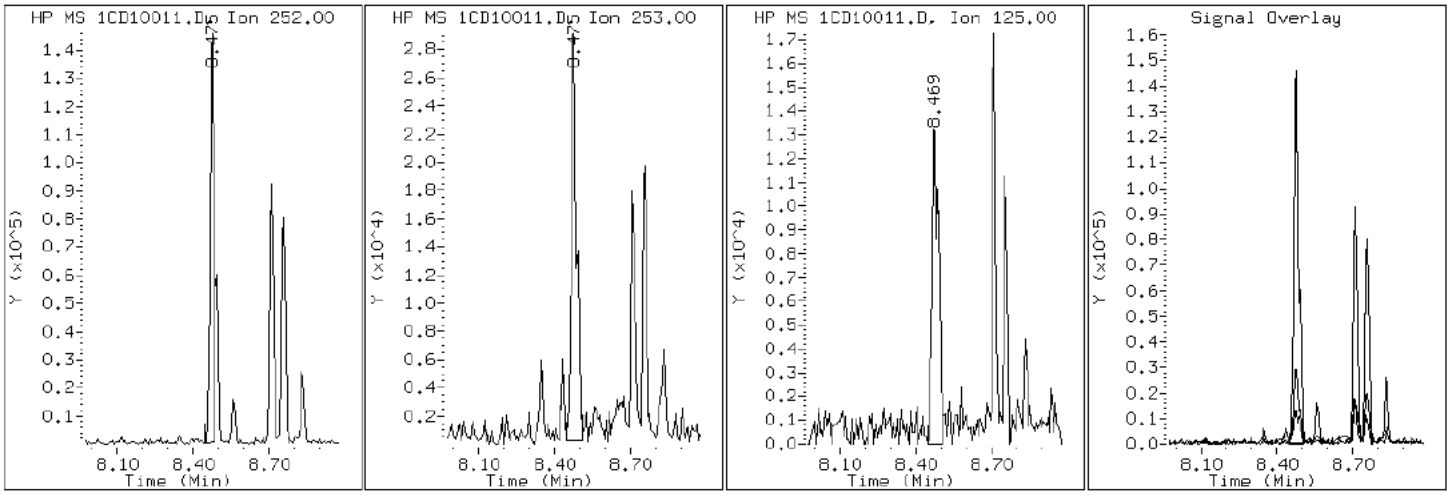
Data File: 1CD10011.D

Date: 10-APR-2013 14:37

Client ID: CV1049A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



Manual Integration Report

Data File: 1CD10011.D
Inj. Date and Time: 10-APR-2013 14:37
Instrument ID: BSMC5973.i
Client ID: CV1049A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

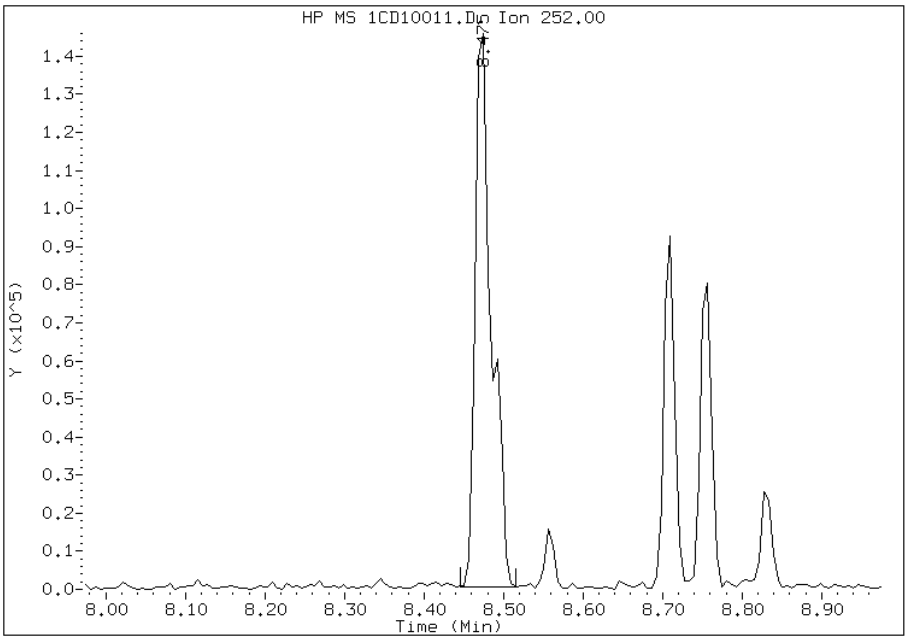
Processing Integration Results

RT: 8.47

Response: 206190

Amount: 11

Conc: 3767



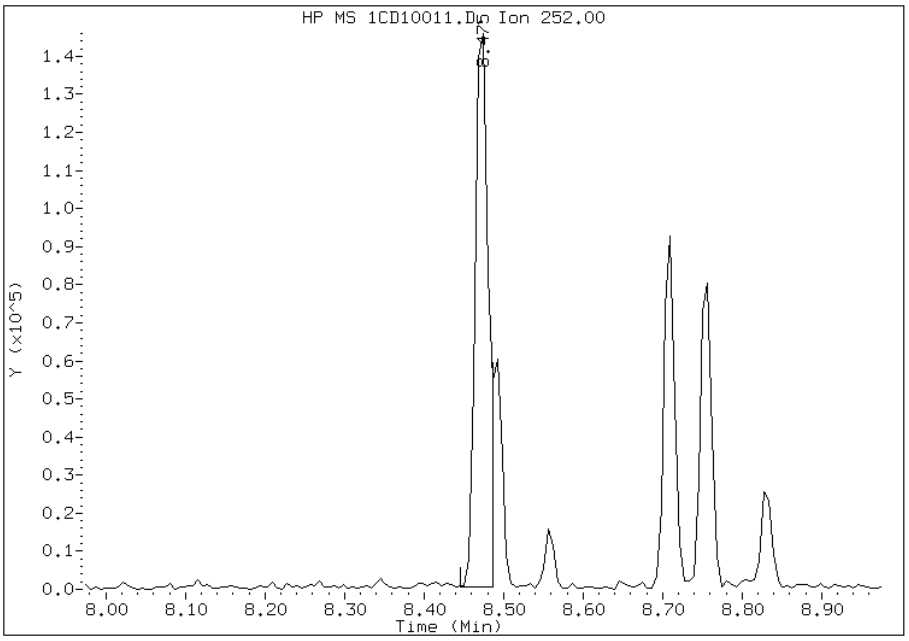
Manual Integration Results

RT: 8.47

Response: 169803

Amount: 9

Conc: 3103



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 15:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1049B-CS | Lab Sample ID: 680-88811-32

Matrix: Solid | Lab File ID: 1CD08024.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:15

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.10(g) | Date Analyzed: 04/08/2013 19:33

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

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

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

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	J	130	26
208-96-8	Acenaphthylene	470		52	6.5
120-12-7	Anthracene	330		11	5.4
56-55-3	Benzo[a]anthracene	2200		10	5.0
50-32-8	Benzo[a]pyrene	2200		13	6.7
205-99-2	Benzo[b]fluoranthene	4100		16	7.9
191-24-2	Benzo[g,h,i]perylene	1300		26	5.7
207-08-9	Benzo[k]fluoranthene	1700		10	4.6
218-01-9	Chrysene	3100		12	5.8
53-70-3	Dibenz(a,h)anthracene	530		26	5.3
86-73-7	Fluorene	170		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1400		26	9.2
90-12-0	1-Methylnaphthalene	160		52	5.7
91-57-6	2-Methylnaphthalene	160		52	9.2
91-20-3	Naphthalene	170		52	5.7

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\1C040813.b\1CD08024.D
Lab Smp Id: 680-88811-A-32-A Client Smp ID: CV1049B-CS
Inj Date : 08-APR-2013 19:33
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-32-A
Misc Info : 680-88811-A-32-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.100	Weight Extracted
M	23.007	% 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	3.692	3.692	(1.000)	502055	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	357942	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	652956	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	82443	8.46083	727.7569
* 18 Chrysene-d12	240	7.662	7.656	(1.000)	675540	40.0000	
* 23 Perylene-d12	264	8.827	8.821	(1.000)	626675	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	24970	1.93638	166.5576
3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	16138	1.83847	158.1356
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	14528	1.83935	158.2112
5 Acenaphthylene	152	4.692	4.686	(0.983)	81256	5.48495	471.7872
7 Acenaphthene	154	4.798	4.798	(1.005)	12405	1.35196	116.2889
9 Fluorene	166	5.116	5.115	(1.071)	23831	1.94827	167.5798
11 Phenanthrene	178	5.739	5.739	(1.003)	1337664	70.3400	6050.2829(A)
12 Anthracene	178	5.774	5.768	(1.009)	73110	3.79245	326.2069

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	181064	10.9629	942.9677
15 Fluoranthene	202	6.574	6.568	(1.149)	1720168	81.9049	7045.0363(A)
16 Pyrene	202	6.739	6.739	(0.879)	1166806	62.3528	5363.2613(A)
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	493047	25.3249	2178.3134
19 Chrysene	228	7.680	7.674	(1.002)	694101	36.0573	3101.4626
20 Benzo(b)fluoranthene	252	8.492	8.486	(0.962)	850777	48.0214	4130.5489(M)
21 Benzo(k)fluoranthene	252	8.509	8.503	(0.964)	343604	20.0526	1724.8163(M)
22 Benzo(a)pyrene	252	8.774	8.768	(0.994)	433726	26.0031	2236.6491
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	264872	16.7189	1438.0750(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.130)	90453	6.18065	531.6274
26 Benzo(g,h,i)perylene	276	10.309	10.297	(1.168)	246545	15.2477	1311.5290

QC Flag Legend

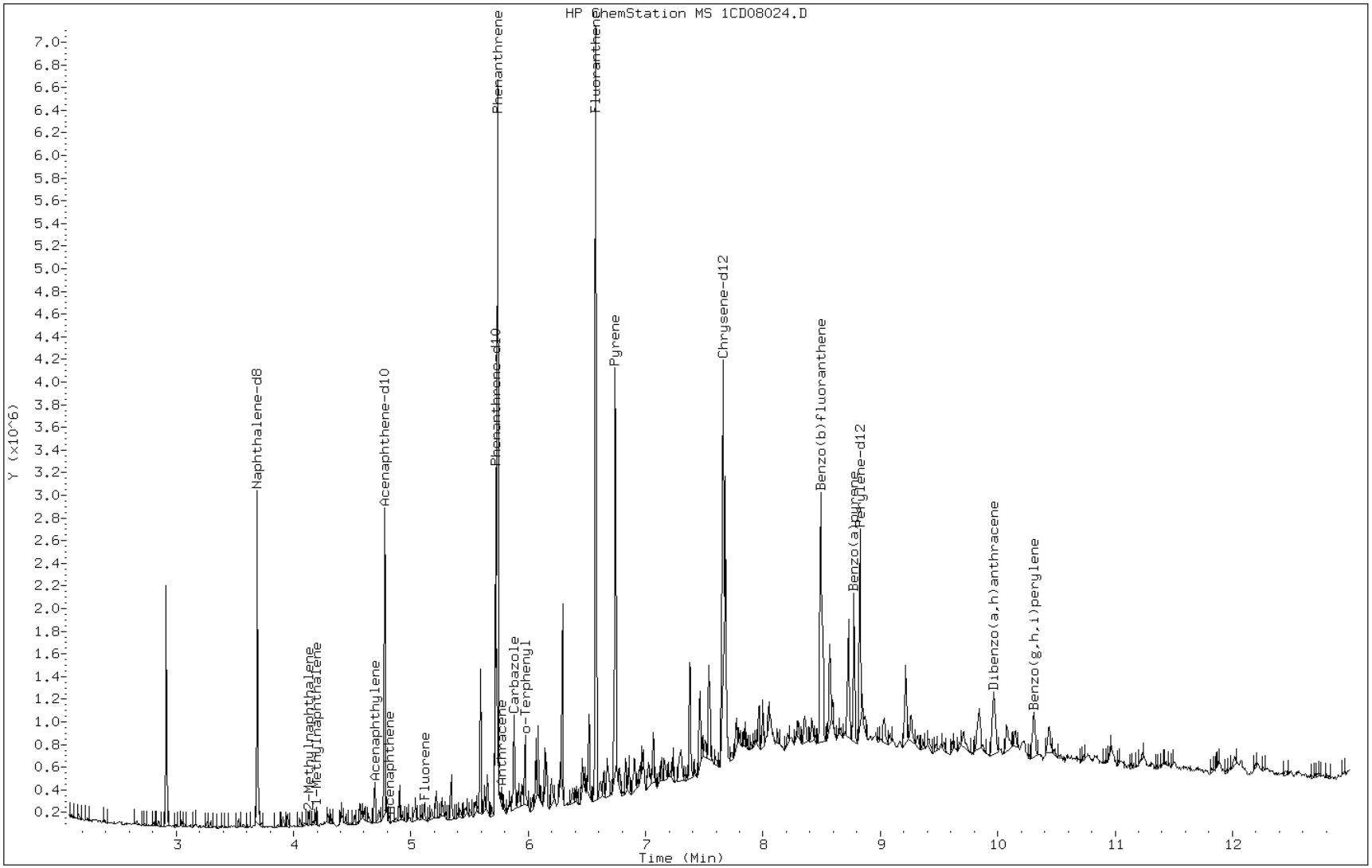
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP



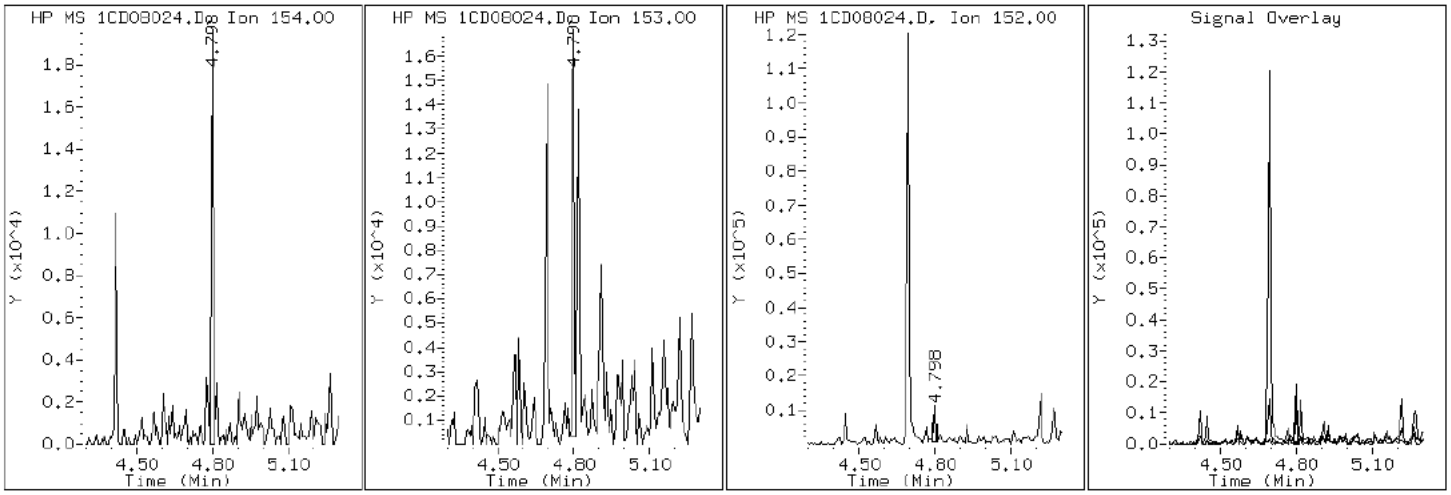
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

7 Acenaphthene



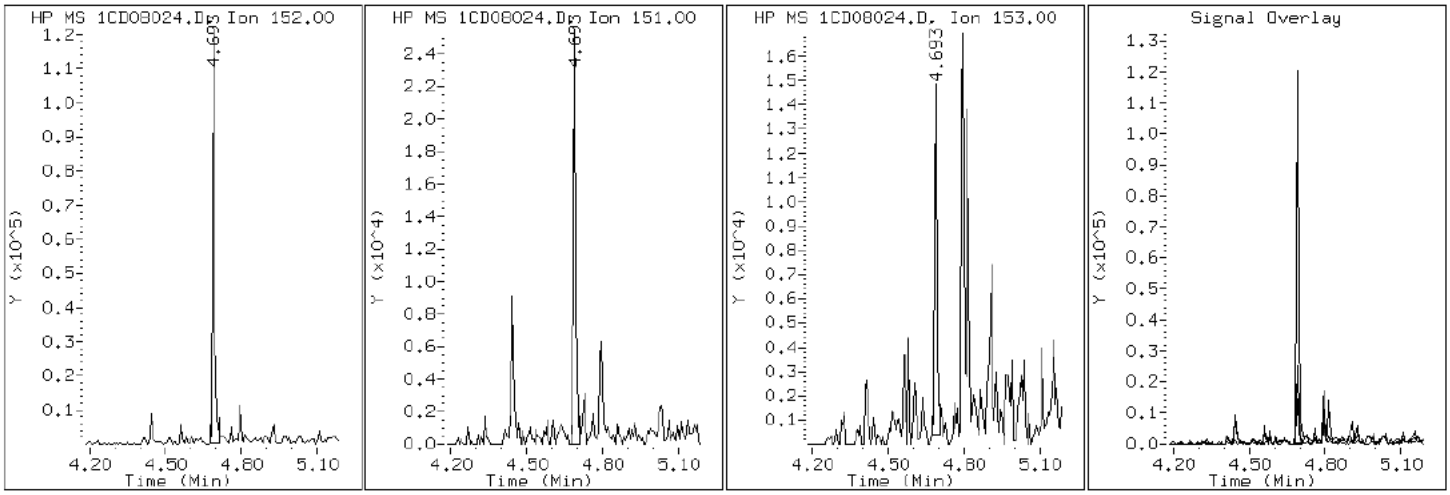
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

5 Acenaphthylene



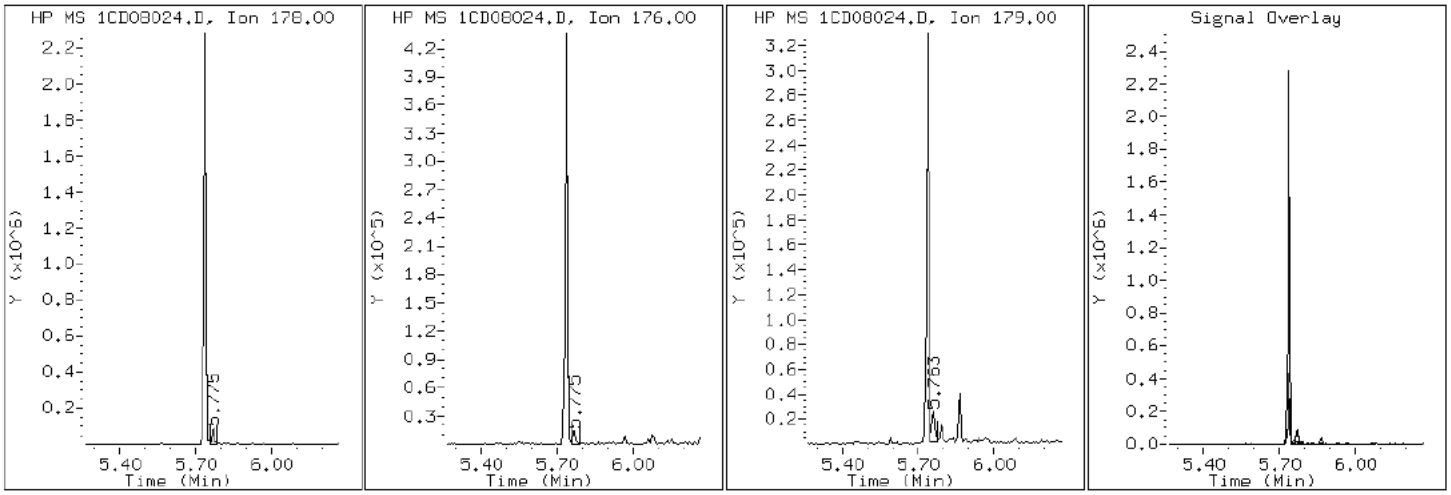
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

12 Anthracene



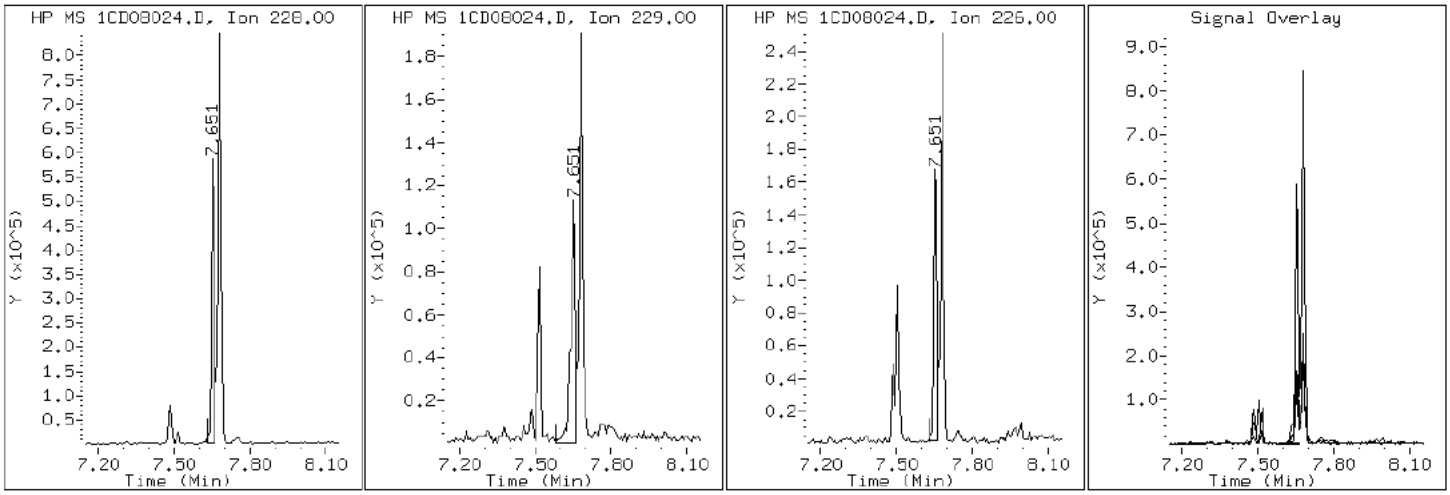
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

17 Benzo(a)anthracene



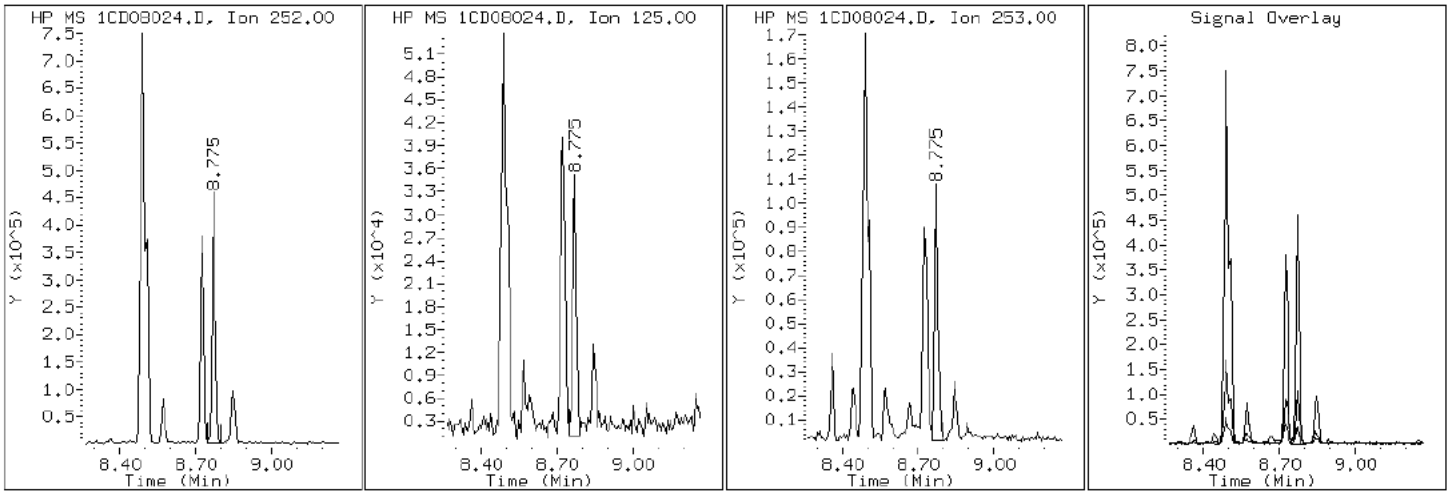
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

22 Benzo(a)pyrene



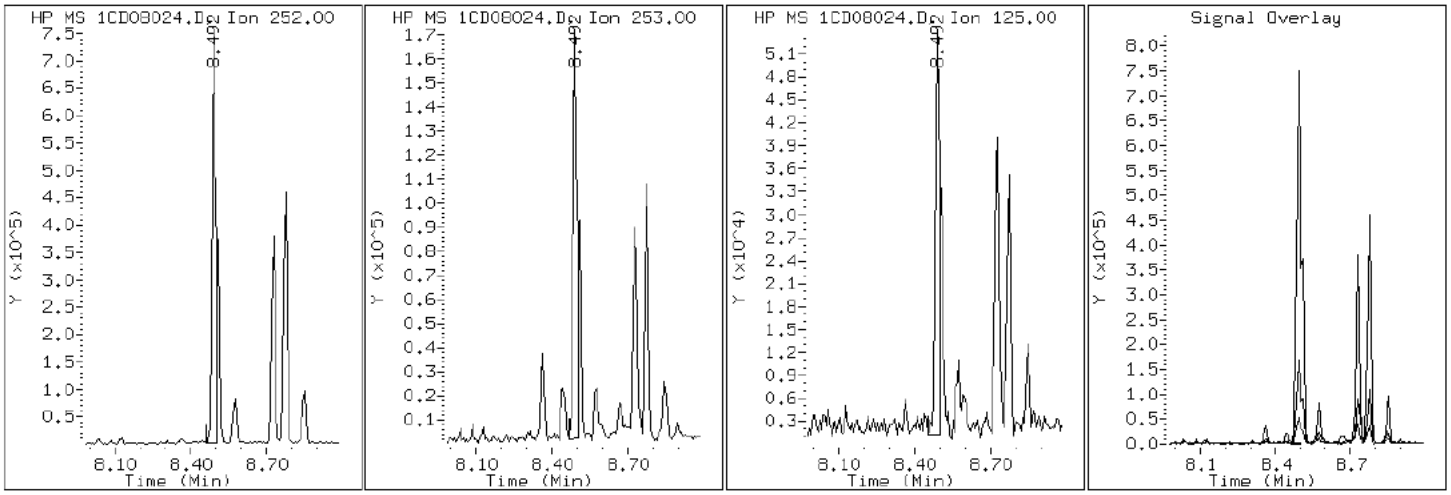
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

20 Benzo(b)fluoranthene



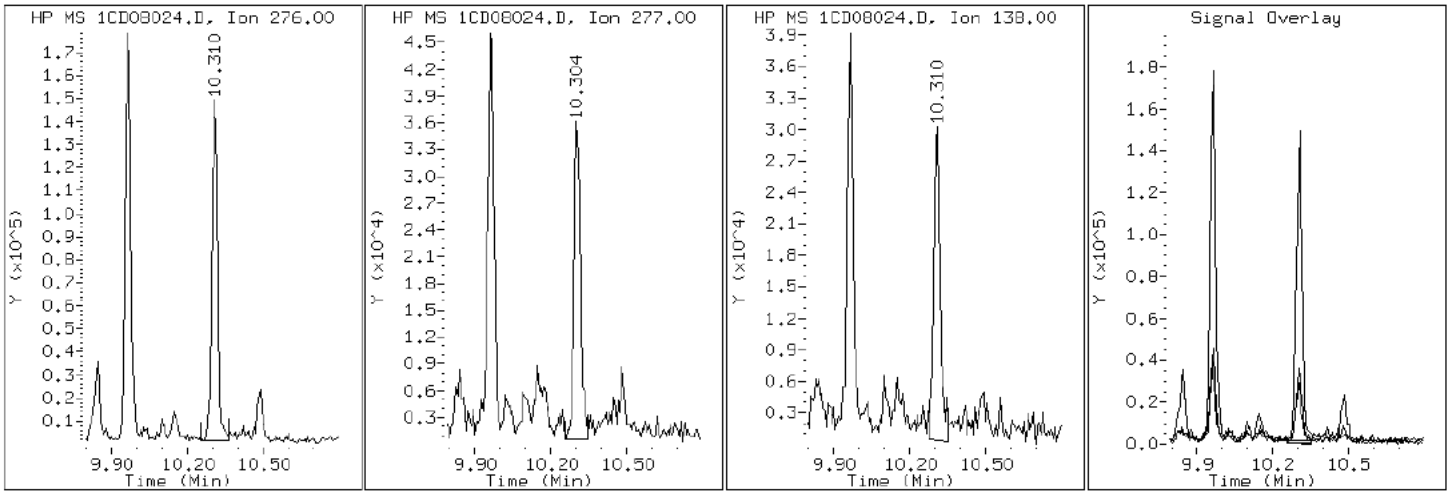
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

26 Benzo(g,h,i)perylene



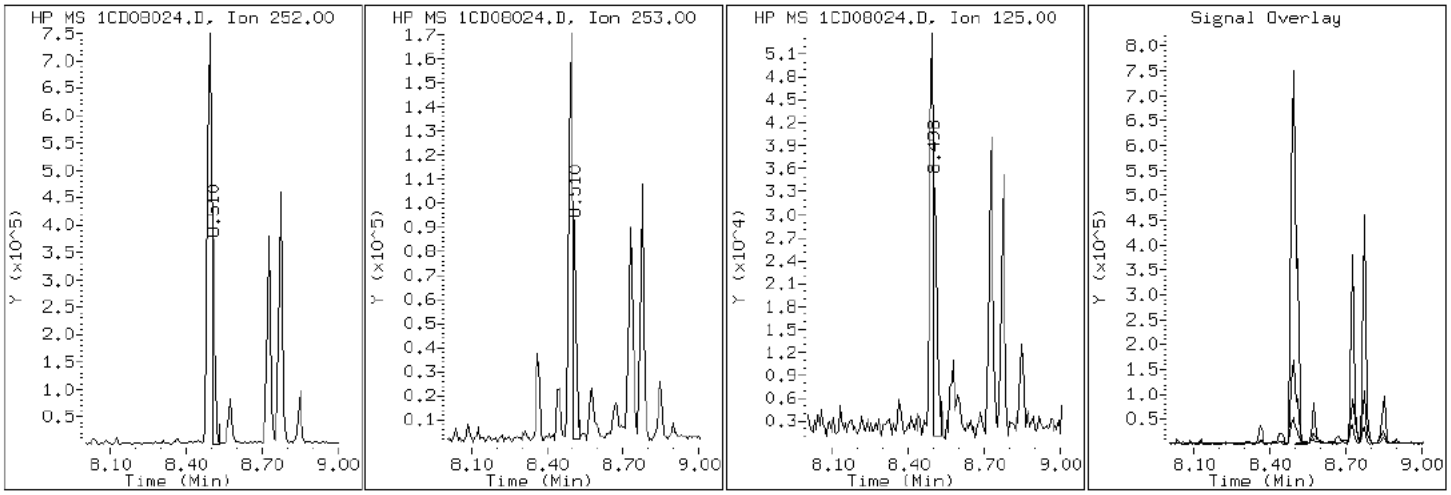
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

21 Benzo(k)fluoranthene



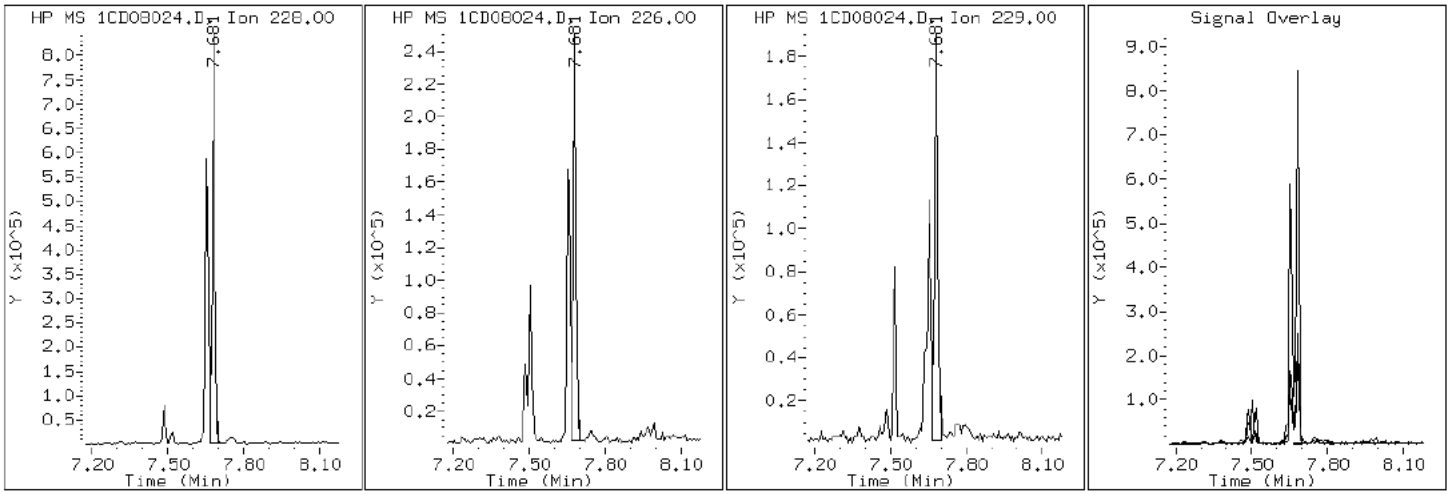
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

19 Chrysene



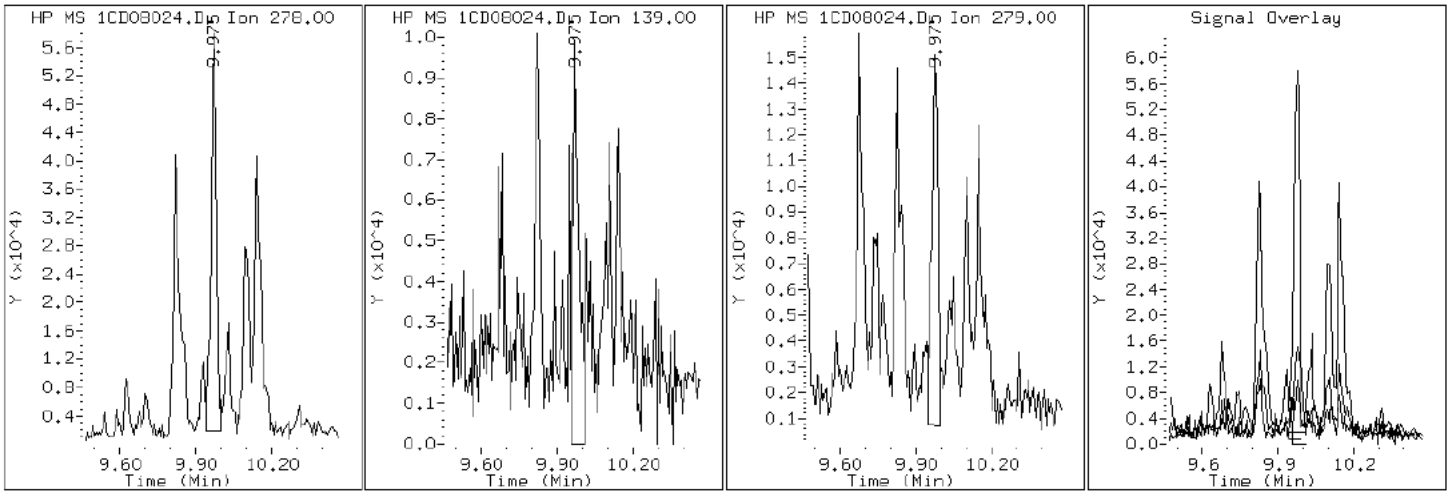
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

25 Dibenzo(a,h)anthracene



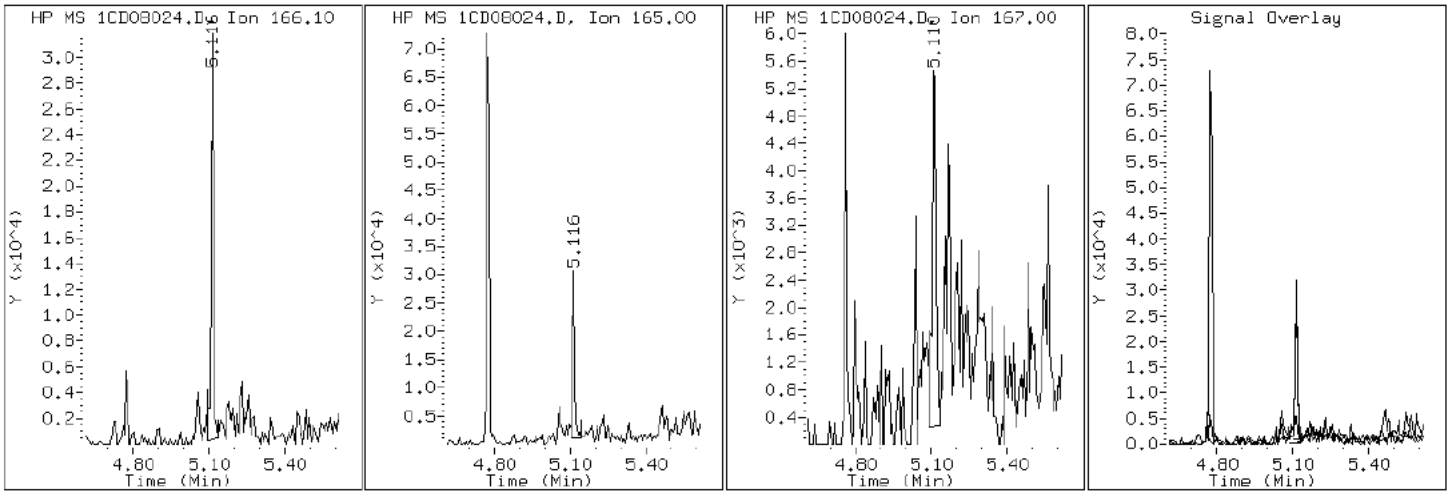
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

9 Fluorene



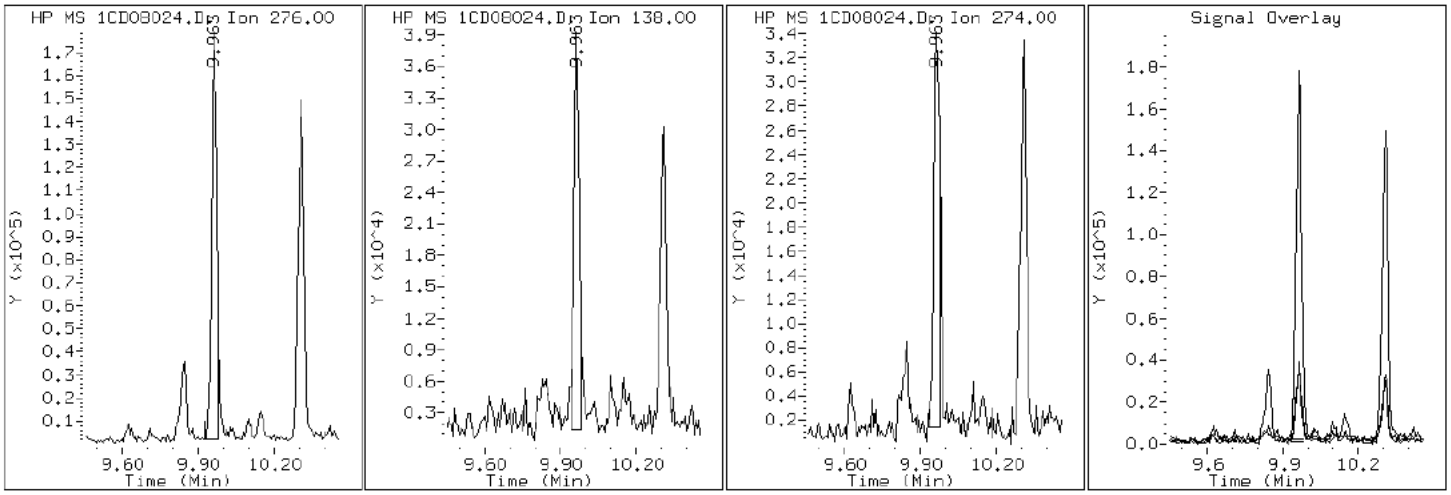
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

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



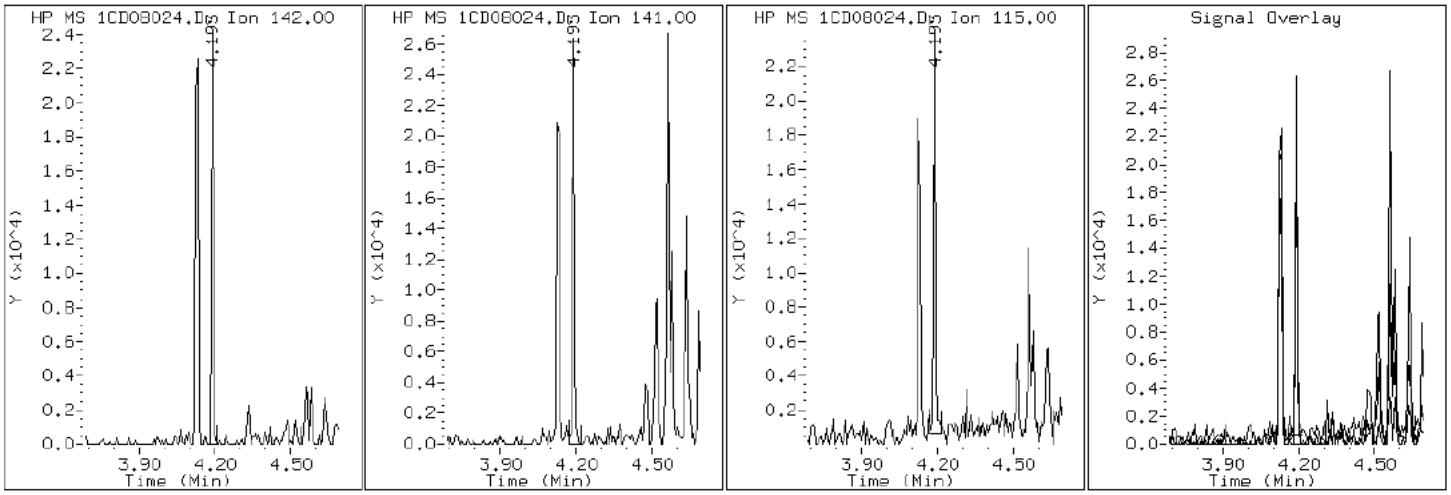
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

4 1-Methylnaphthalene



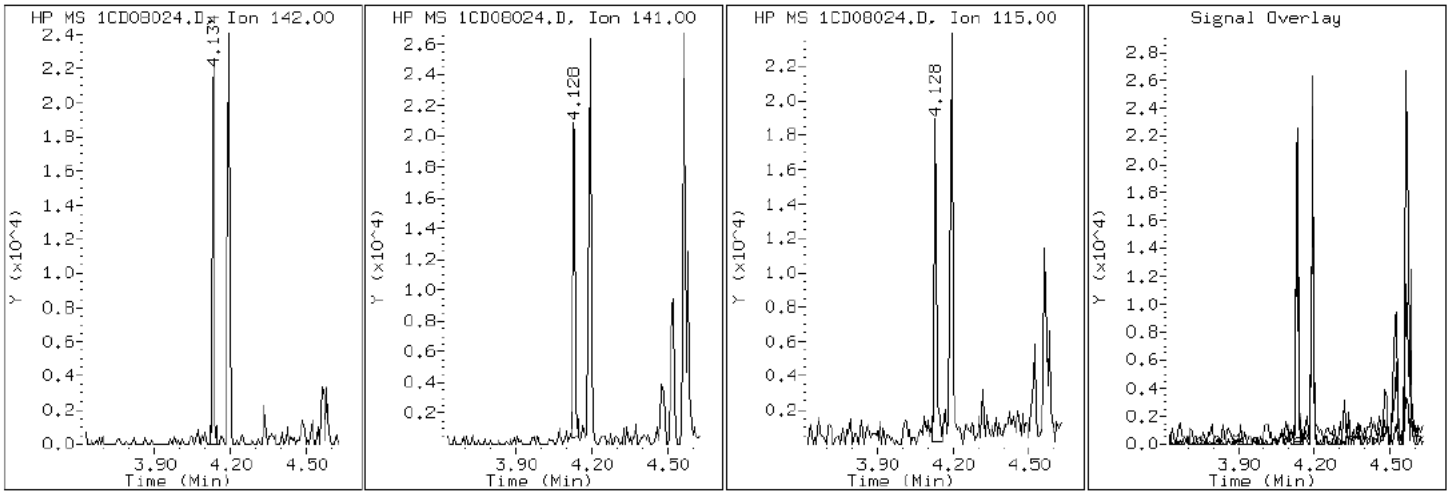
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

3 2-Methylnaphthalene



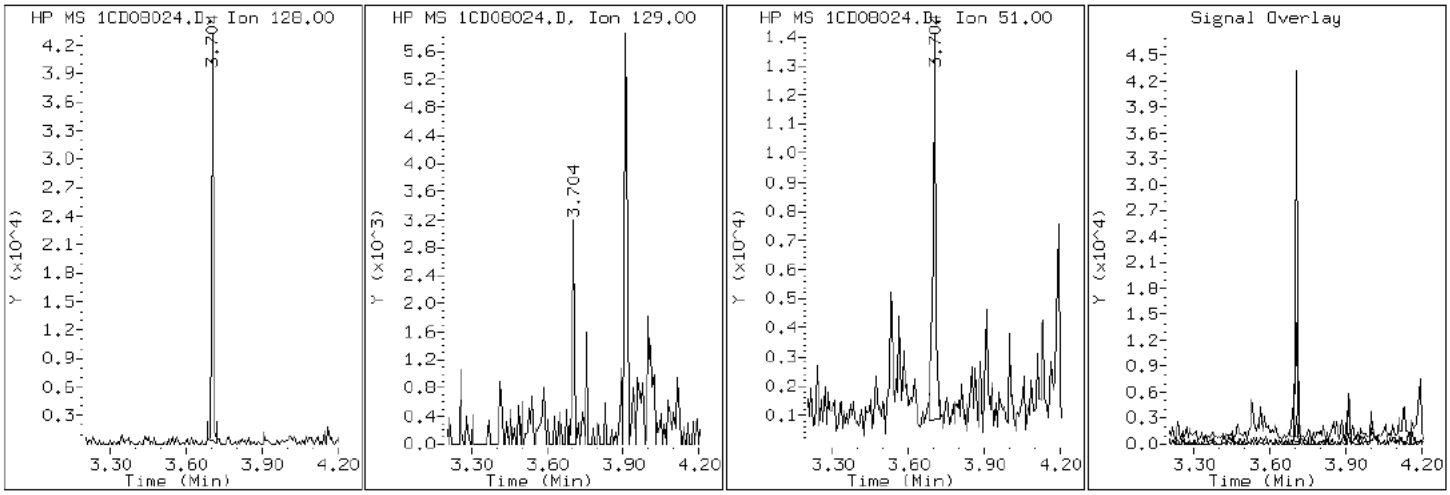
Data File: 1CD08024.D

Date: 08-APR-2013 19:33

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-32-A Operator: TP

2 Naphthalene



Manual Integration Report

Data File: 1CD08024.D
Inj. Date and Time: 08-APR-2013 19:33
Instrument ID: BSMC5973.i
Client ID: CV1049B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

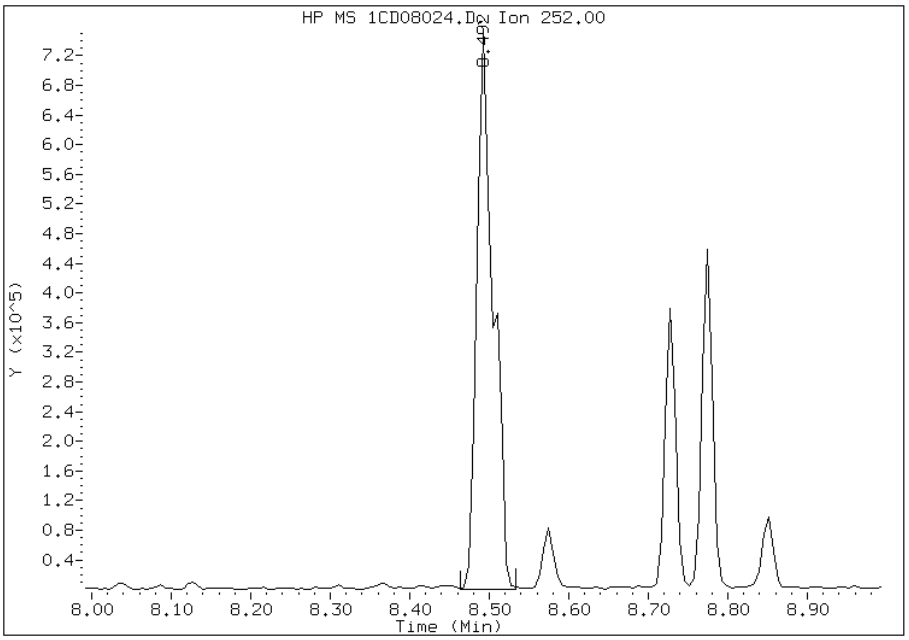
Processing Integration Results

RT: 8.49

Response: 1068298

Amount: 60

Conc: 5187



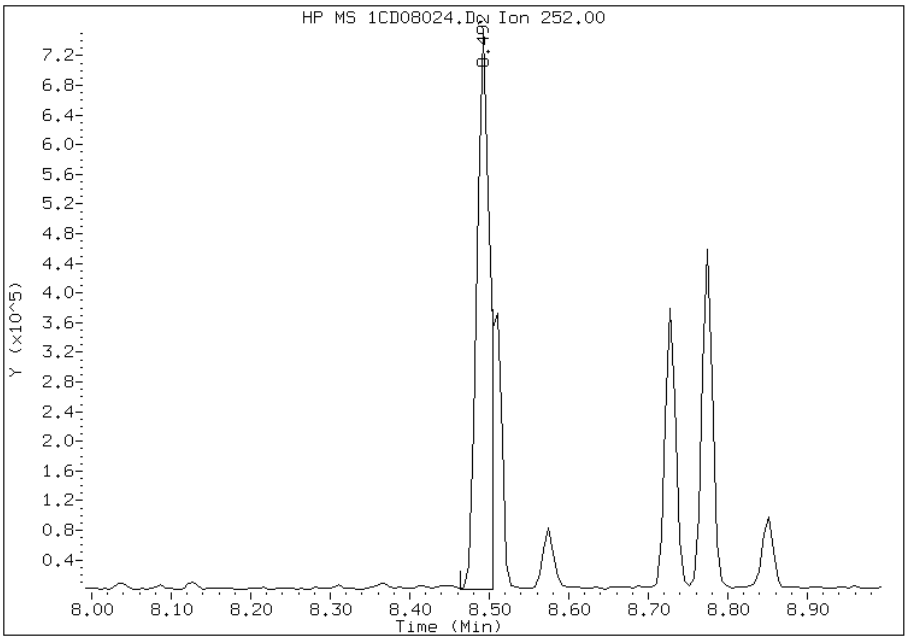
Manual Integration Results

RT: 8.49

Response: 850777

Amount: 48

Conc: 4131



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08024.D
Inj. Date and Time: 08-APR-2013 19:33
Instrument ID: BSMC5973.i
Client ID: CV1049B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

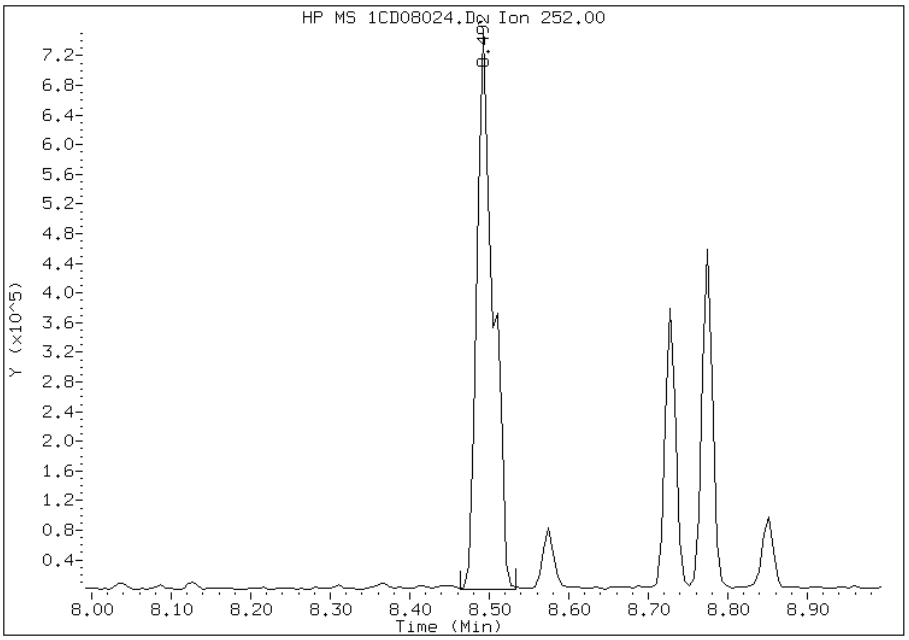
Processing Integration Results

RT: 8.49

Response: 1068298

Amount: 62

Conc: 5363



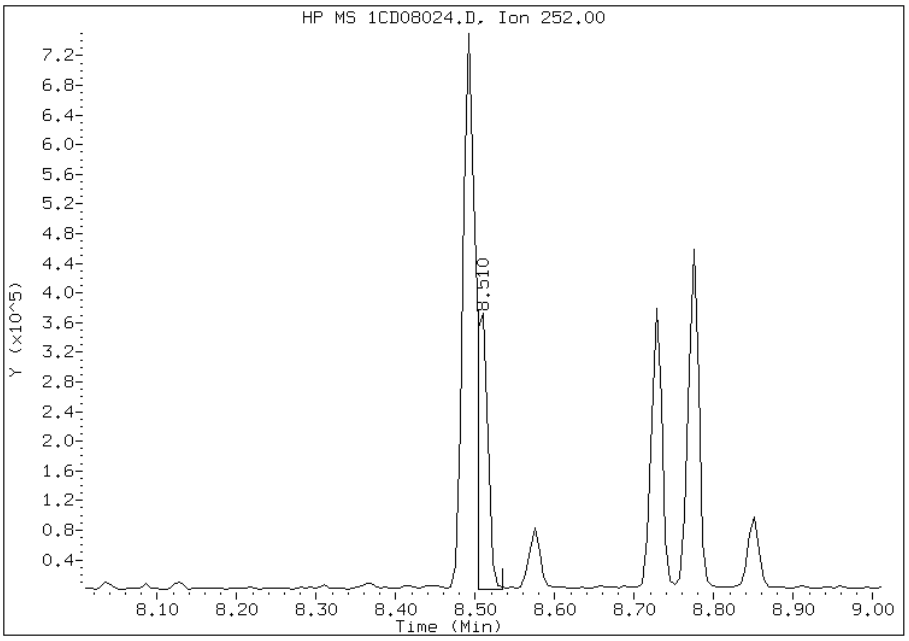
Manual Integration Results

RT: 8.51

Response: 343604

Amount: 20

Conc: 1725



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08024.D
Inj. Date and Time: 08-APR-2013 19:33
Instrument ID: BSMC5973.i
Client ID: CV1049B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

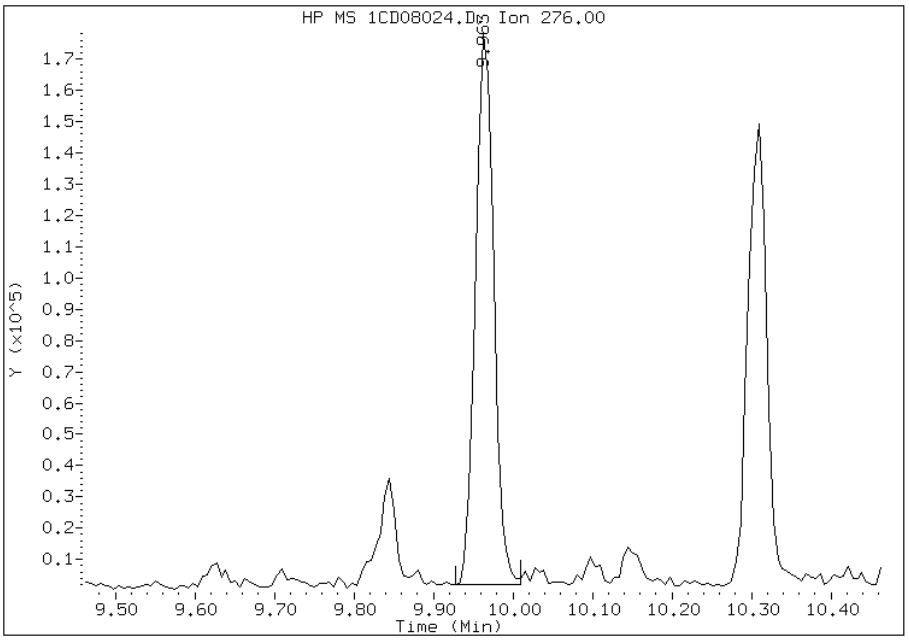
Processing Integration Results

RT: 9.96

Response: 278689

Amount: 18

Conc: 1513



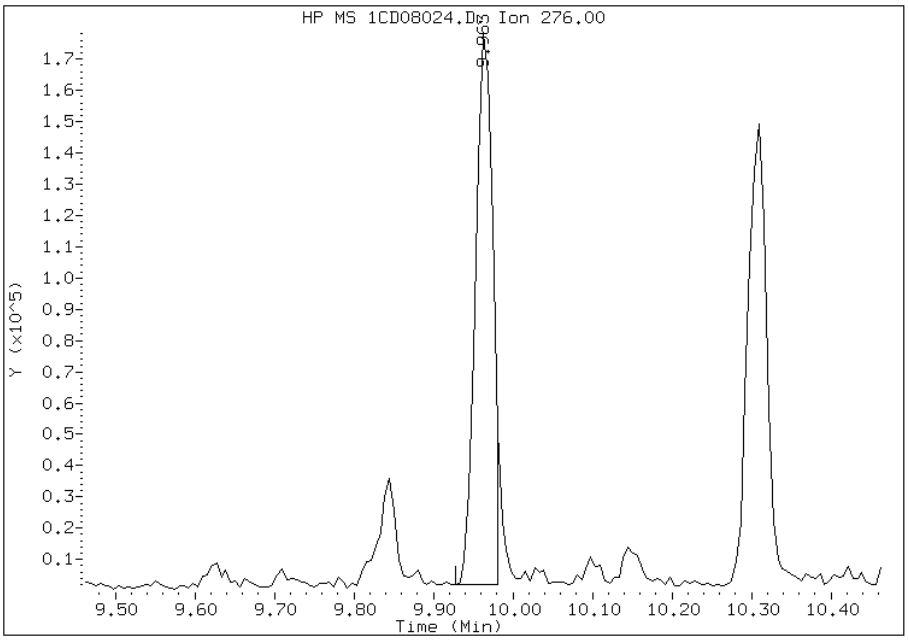
Manual Integration Results

RT: 9.96

Response: 264872

Amount: 17

Conc: 1438



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1049B-CS DL | Lab Sample ID: 680-88811-32 DL

Matrix: Solid | Lab File ID: 1CD10012.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:15

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.10(g) | Date Analyzed: 04/10/2013 14:55

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

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

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

Analysis Batch No.: 136309 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	5200		100	21
85-01-8	Phenanthrene	4200		41	20
129-00-0	Pyrene	3800		100	19

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10012.D
Lab Smp Id: 680-88811-A-32-A Client Smp ID: CV1049B-CS
Inj Date : 10-APR-2013 14:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-32-a
Misc Info : 680-88811-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	23.007	% 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	3.680	3.680	(1.000)	466223	40.0000	
*	6 Acenaphthene-d10	164	4.768	4.768	(1.000)	357395	40.0000	
*	10 Phenanthrene-d10	188	5.710	5.710	(1.000)	649575	40.0000	
$	14 o-Terphenyl	230	5.962	5.963	(1.044)	16277	2.26057	777.7685
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	733031	40.0000	
*	23 Perylene-d12	264	8.809	8.809	(1.000)	693983	40.0000	
	2 Naphthalene	128	3.692	3.692	(1.003)	5328	0.44493	153.0832
	3 2-Methylnaphthalene	142	4.121	4.121	(1.120)	3911	0.47979	165.0765
	4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	4046	0.55162	189.7907
	5 Acenaphthylene	152	4.680	4.680	(0.981)	14871	1.00536	345.9036
	7 Acenaphthene	154	4.786	4.786	(1.004)	2774	0.30279	104.1771(Q)
	9 Fluorene	166	5.104	5.104	(1.070)	4175	0.34184	117.6143
	11 Phenanthrene	178	5.727	5.727	(1.003)	231360	12.2292	4207.5717
	12 Anthracene	178	5.762	5.763	(1.009)	10798	0.56304	193.7199

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.868	5.868	(1.028)	35827	2.18050	750.2220
15 Fluoranthene	202	6.557	6.557	(1.148)	315228	15.0875	5191.0088
16 Pyrene	202	6.727	6.727	(0.880)	221601	10.9133	3754.8340
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	100779	4.88051	1679.1847
19 Chrysene	228	7.668	7.668	(1.003)	133713	6.40137	2202.4509
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	167427	8.53371	2936.1014(M)
21 Benzo(k)fluoranthene	252	8.486	8.498	(0.963)	80565	4.24572	1460.7792(MH)
22 Benzo(a)pyrene	252	8.756	8.756	(0.994)	92887	5.02872	1730.1783
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.939	(1.128)	48623	2.77145	953.5441(M)
25 Dibenzo(a,h)anthracene	278	9.945	9.950	(1.129)	24616	1.51888	522.5831
26 Benzo(g,h,i)perylene	276	10.280	10.280	(1.167)	59995	3.35056	1152.7902

QC Flag Legend

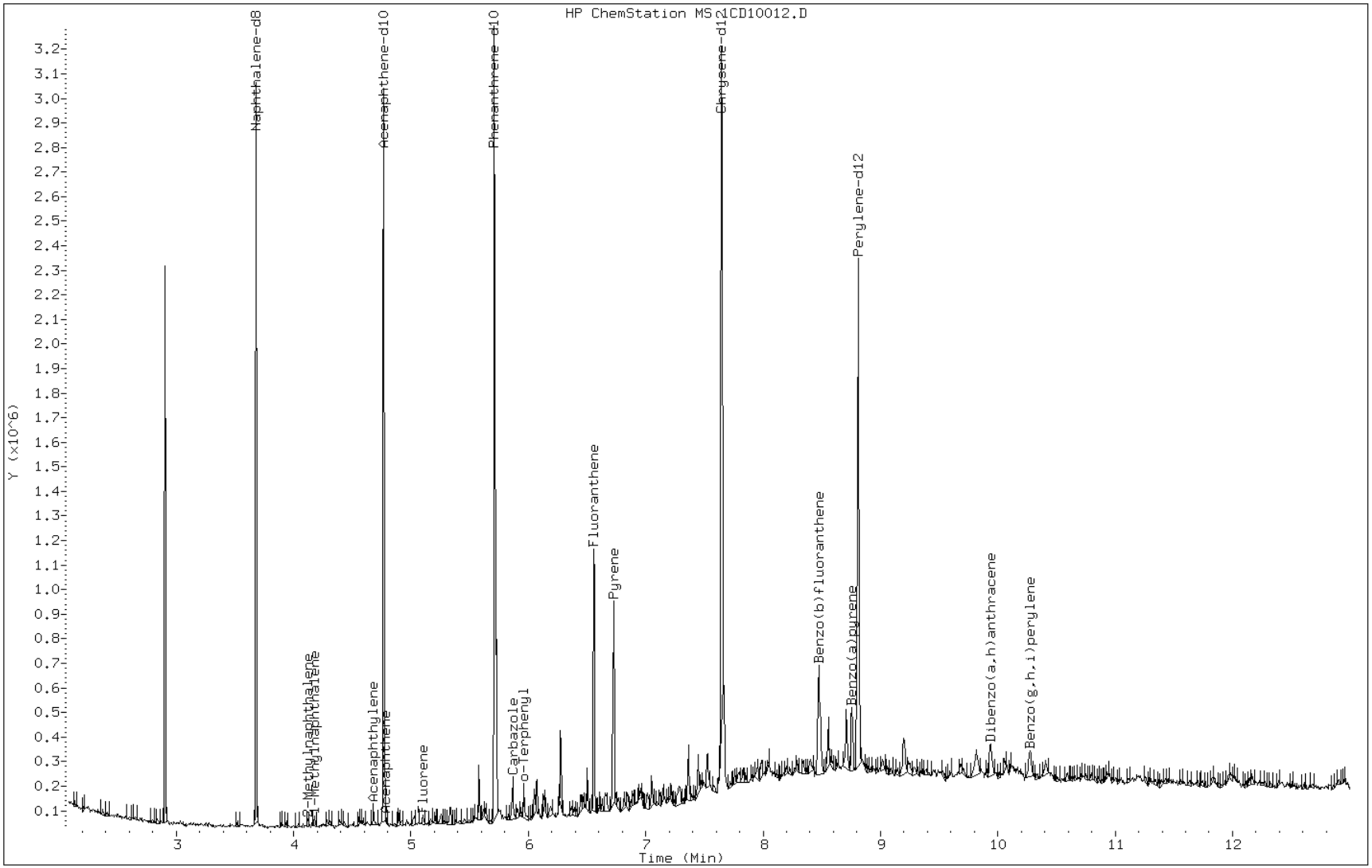
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD10012.D

Date: 10-APR-2013 14:55

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-32-a Operator: SCC



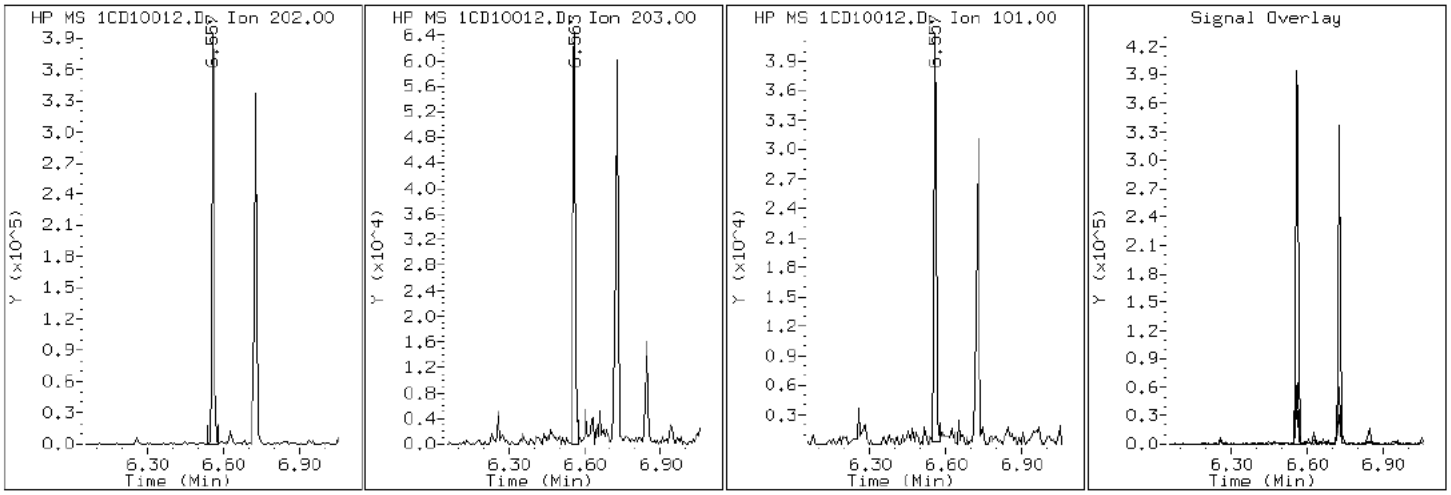
Data File: 1CD10012.D

Date: 10-APR-2013 14:55

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-32-a Operator: SCC

15 Fluoranthene



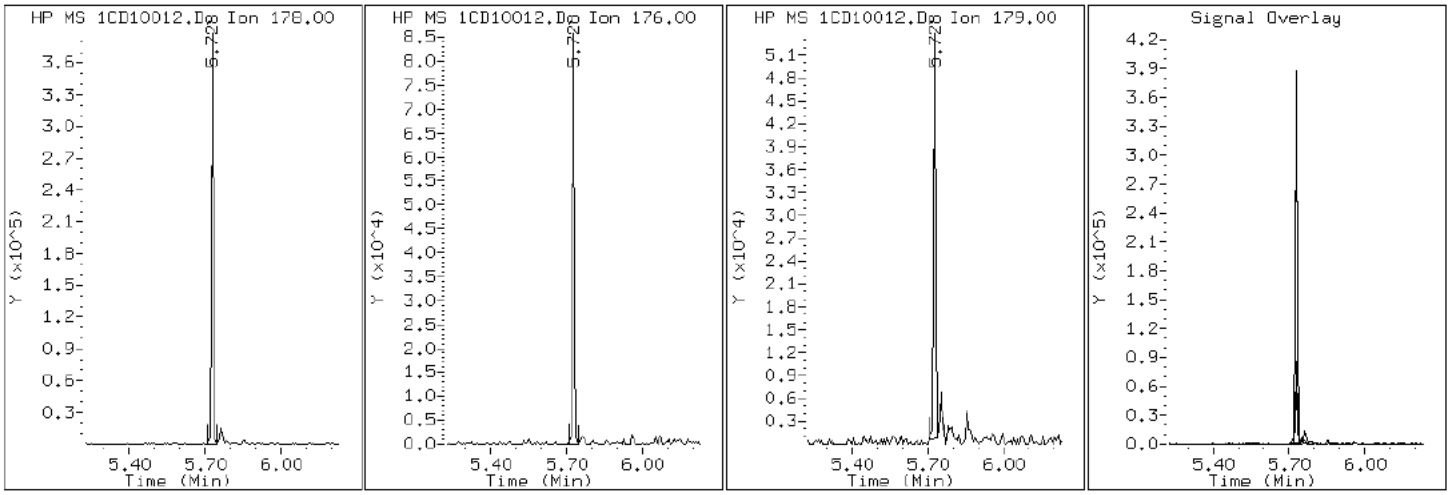
Data File: 1CD10012.D

Date: 10-APR-2013 14:55

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-32-a Operator: SCC

11 Phenanthrene



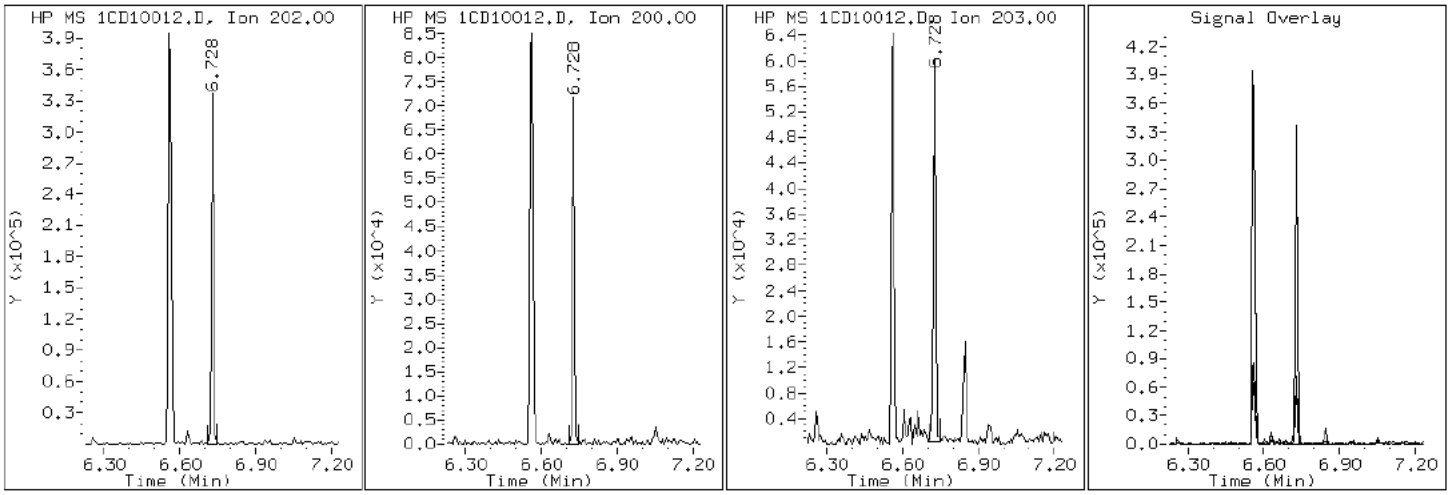
Data File: 1CD10012.D

Date: 10-APR-2013 14:55

Client ID: CV1049B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-32-a Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1042B-CS | Lab Sample ID: 680-88811-33

Matrix: Solid | Lab File ID: 1CD08025.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 13:18

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.06(g) | Date Analyzed: 04/08/2013 19:52

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130		120	24
208-96-8	Acenaphthylene	77		48	6.0
120-12-7	Anthracene	240		10	5.1
56-55-3	Benzo[a]anthracene	840		9.7	4.7
50-32-8	Benzo[a]pyrene	750		13	6.3
205-99-2	Benzo[b]fluoranthene	1100		15	7.4
191-24-2	Benzo[g,h,i]perylene	410		24	5.3
207-08-9	Benzo[k]fluoranthene	540		9.7	4.3
218-01-9	Chrysene	880		11	5.4
53-70-3	Dibenz(a,h)anthracene	140		24	5.0
206-44-0	Fluoranthene	1500		24	4.8
86-73-7	Fluorene	120		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	480		24	8.6
90-12-0	1-Methylnaphthalene	88		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.6
91-20-3	Naphthalene	190		48	5.3
85-01-8	Phenanthrene	960		9.7	4.7
129-00-0	Pyrene	1300		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08025.D
Lab Smp Id: 680-88811-A-33-A Client Smp ID: CV1042B-CS
Inj Date : 08-APR-2013 19:52
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-33-A
Misc Info : 680-88811-A-33-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.060	Weight Extracted
M	17.553	% 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	3.692	3.692	(1.000)	483116	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	347871	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	651454	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	55955	5.98762	482.2282
*	18 Chrysene-d12	240	7.657	7.656	(1.000)	659371	40.0000	
*	23 Perylene-d12	264	8.827	8.821	(1.000)	597036	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	29665	2.39066	192.5373
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	11343	1.34287	108.1515
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	8305	1.09269	88.0026
	5 Acenaphthylene	152	4.692	4.686	(0.983)	13746	0.95475	76.8929
	7 Acenaphthene	154	4.798	4.798	(1.005)	14320	1.60585	129.3314
	9 Fluorene	166	5.116	5.115	(1.071)	17201	1.44695	116.5339
	11 Phenanthrene	178	5.739	5.739	(1.003)	225802	11.9010	958.4765
	12 Anthracene	178	5.769	5.768	(1.008)	58448	3.03888	244.7434

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	42765	2.59526	209.0153
15 Fluoranthene	202	6.568	6.568	(1.148)	389760	18.6010	1498.0789
16 Pyrene	202	6.739	6.739	(0.880)	301335	16.4979	1328.6971
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	195648	10.3762	835.6715
19 Chrysene	228	7.680	7.674	(1.003)	204464	10.8820	876.4090
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	224105	13.2774	1069.3264
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.963)	110193	6.75005	543.6324
22 Benzo(a)pyrene	252	8.774	8.768	(0.994)	147164	9.26089	745.8487
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	89489	5.92903	477.5093(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.130)	24550	1.76078	141.8086
26 Benzo(g,h,i)perylene	276	10.304	10.297	(1.167)	78957	5.12556	412.7994

QC Flag Legend

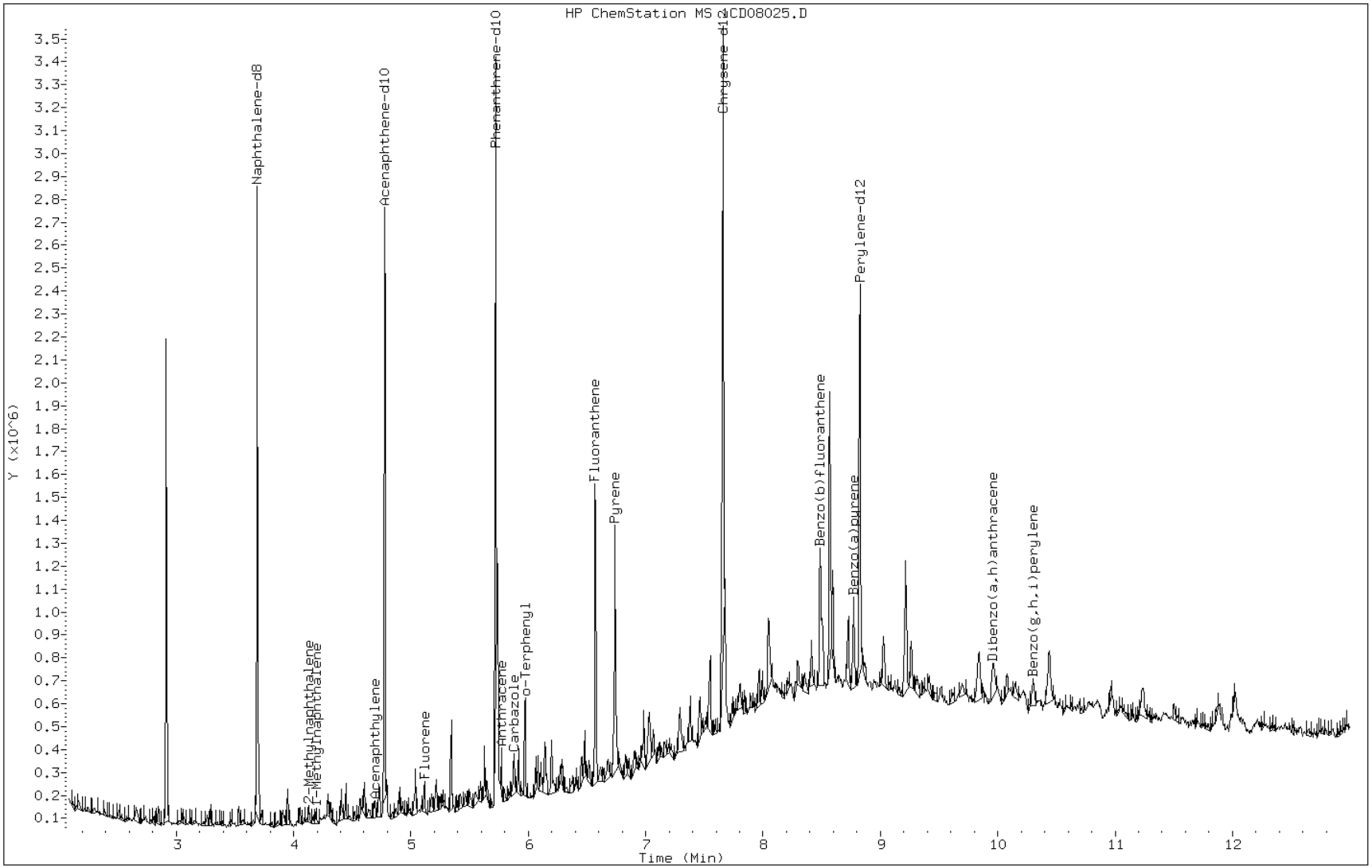
M - Compound response manually integrated.

Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP



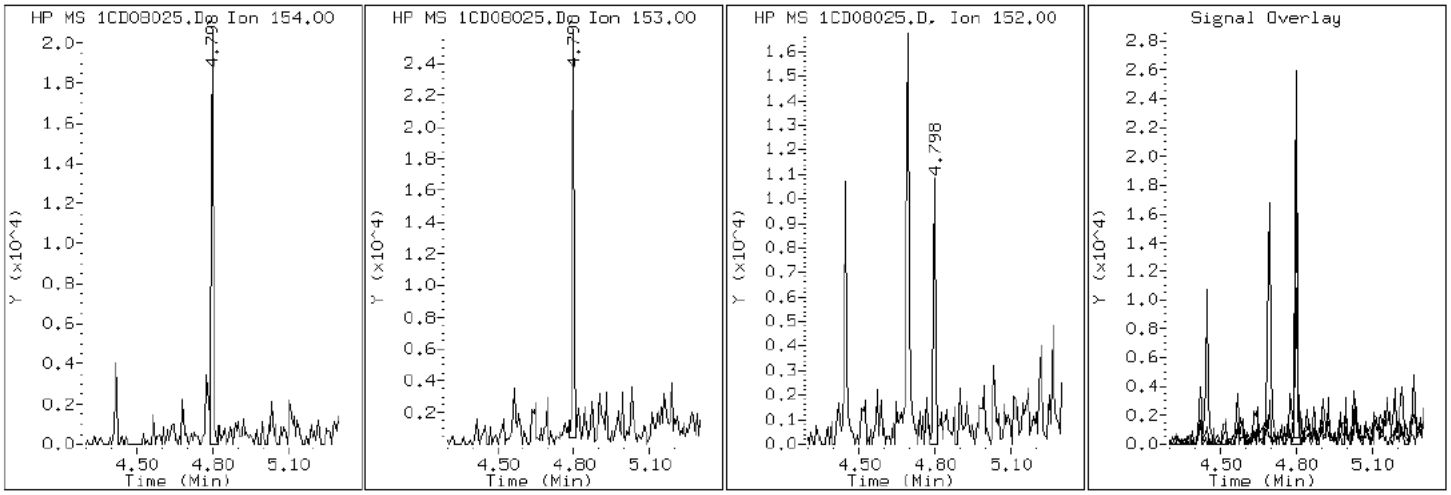
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

7 Acenaphthene



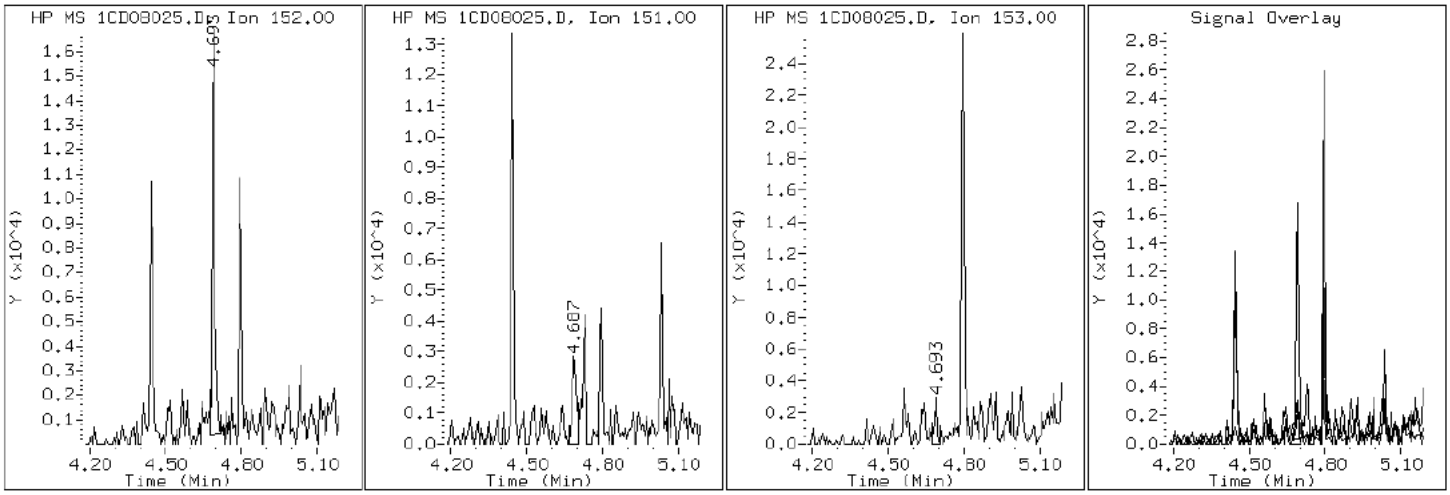
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

5 Acenaphthylene



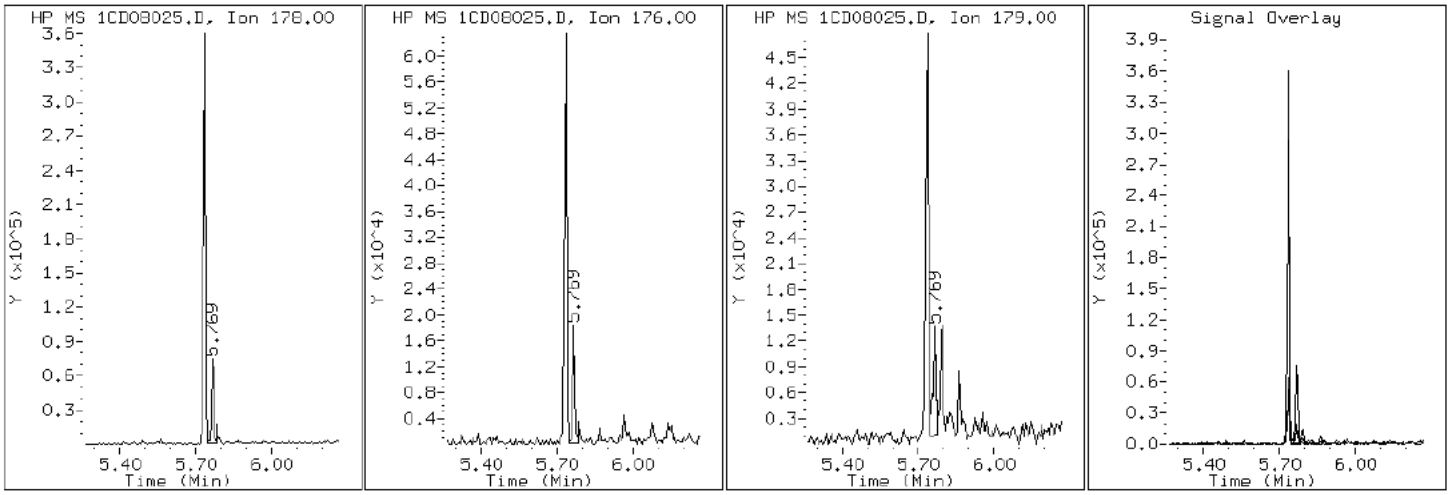
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

12 Anthracene



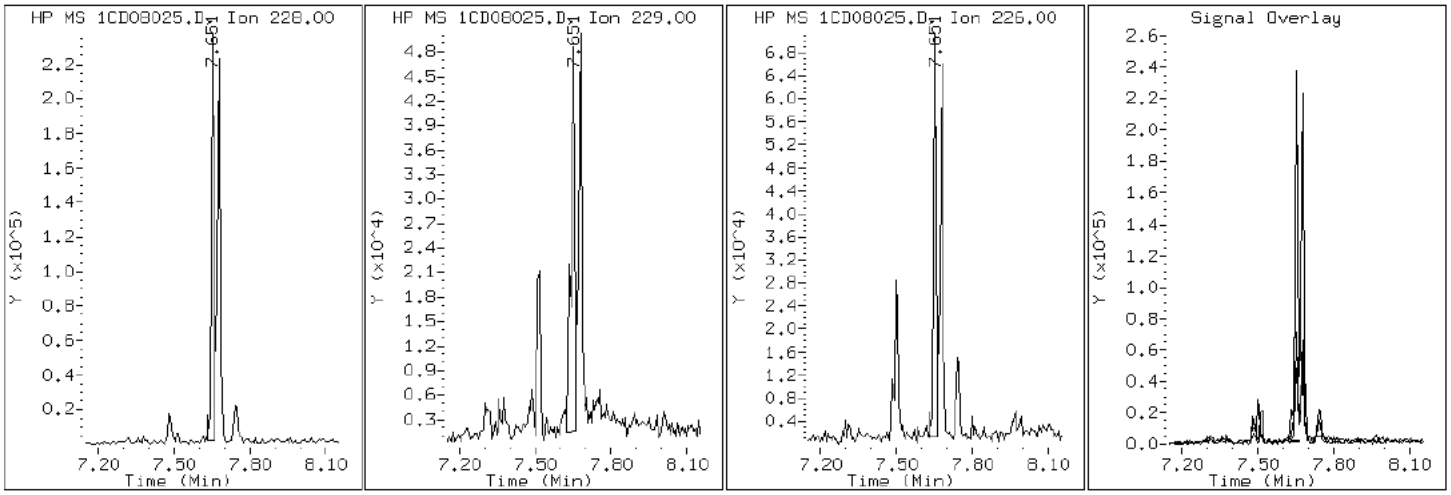
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

17 Benzo(a)anthracene



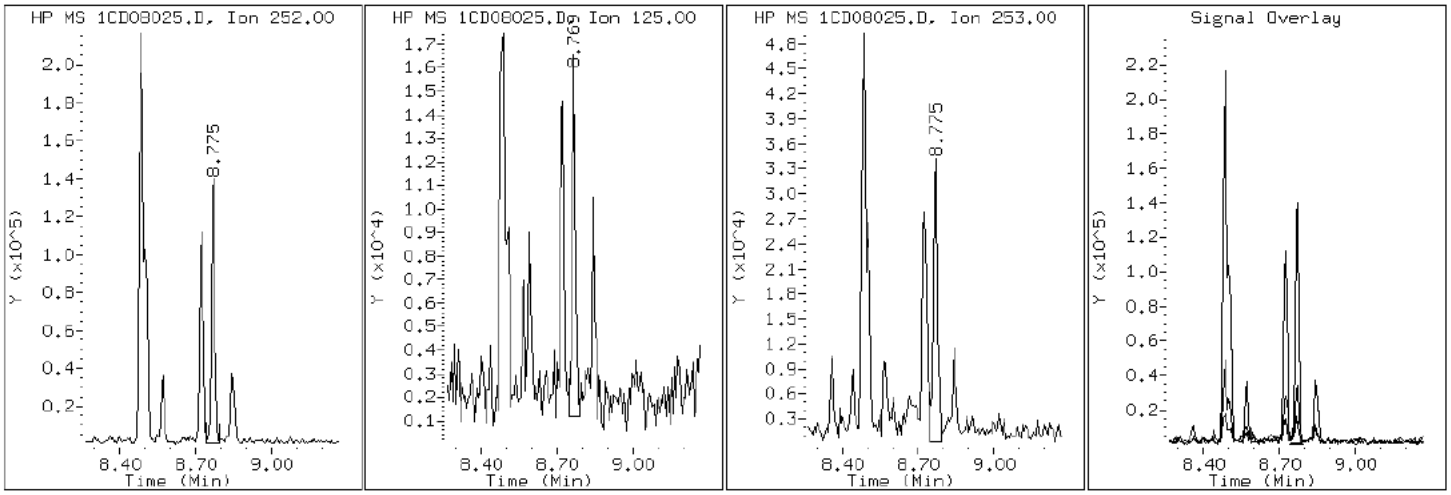
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

22 Benzo(a)pyrene



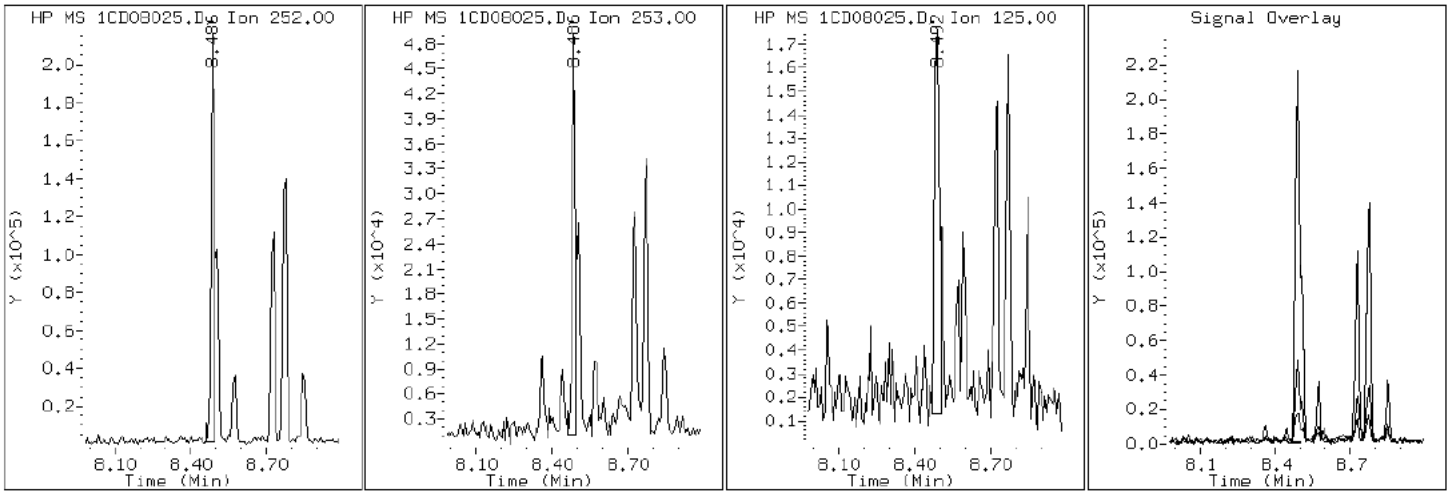
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

20 Benzo(b)fluoranthene



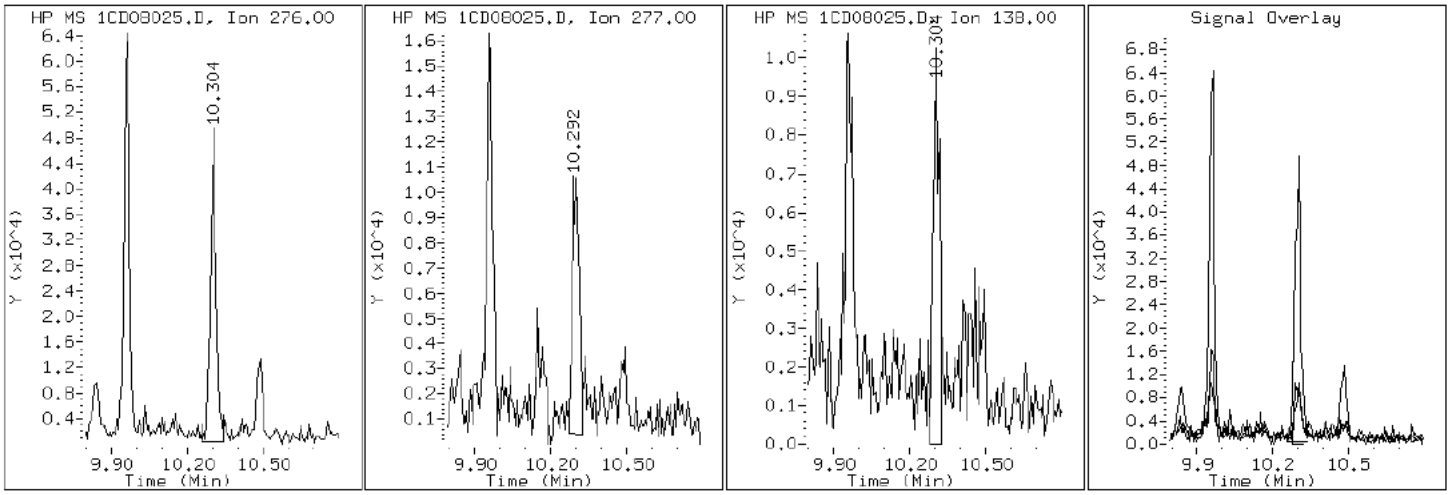
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

26 Benzo(g,h,i)perylene



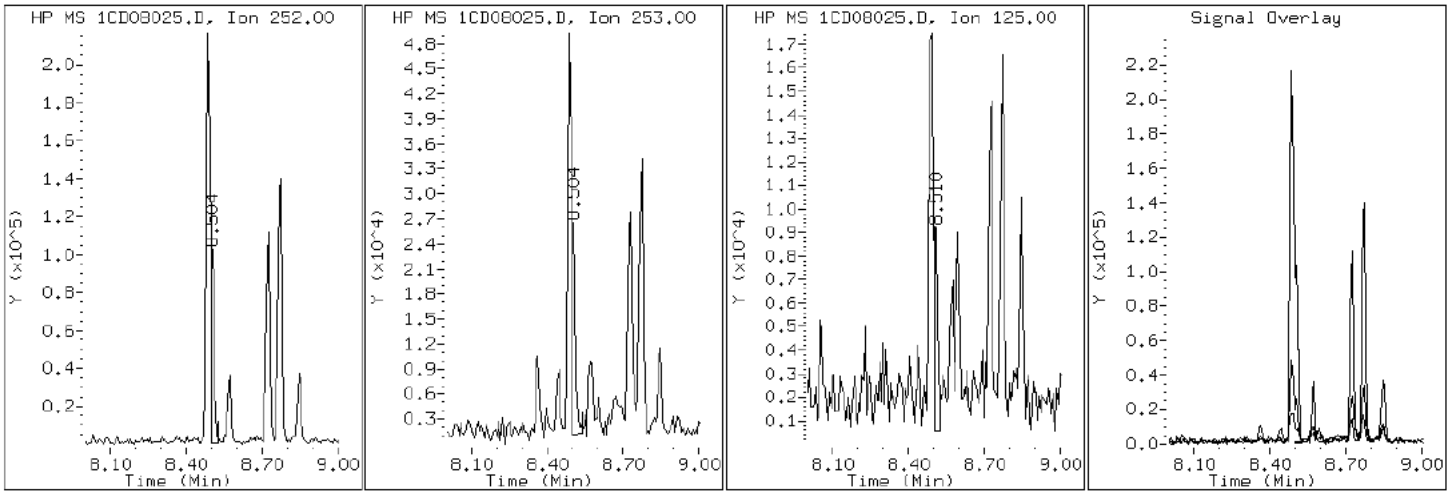
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

21 Benzo(k)fluoranthene



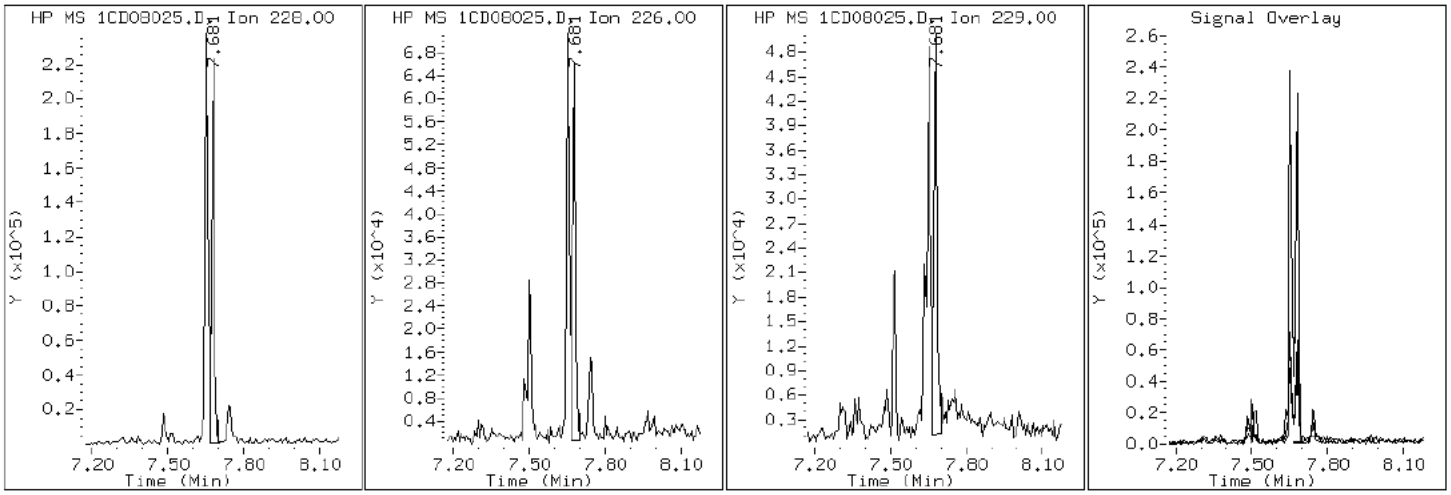
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

19 Chrysene



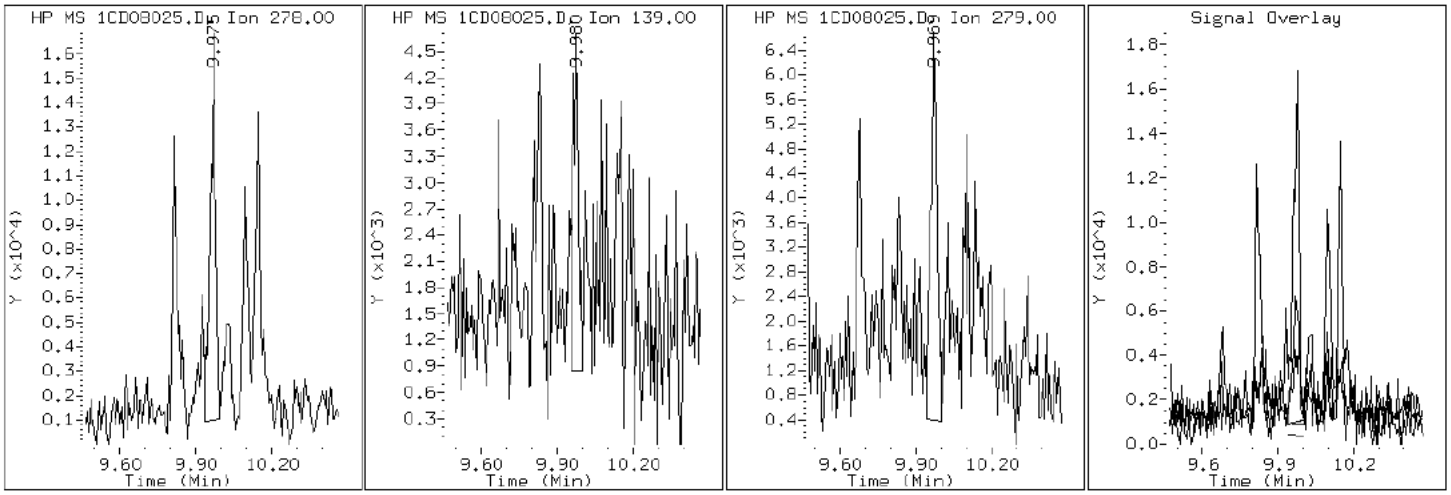
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

25 Dibenzo(a,h)anthracene



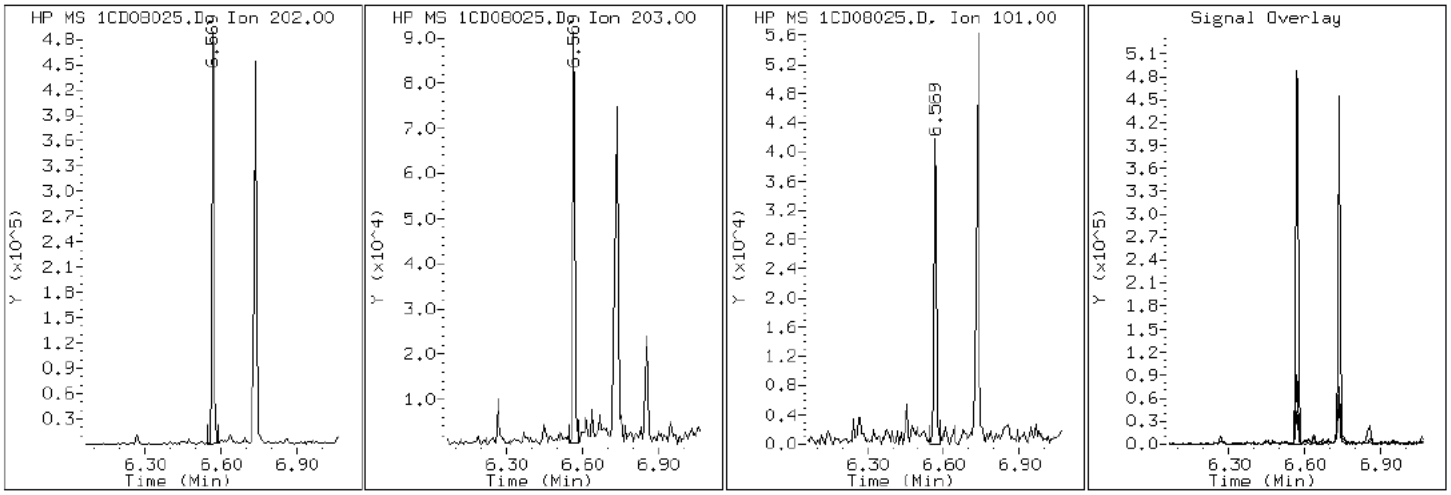
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

15 Fluoranthene



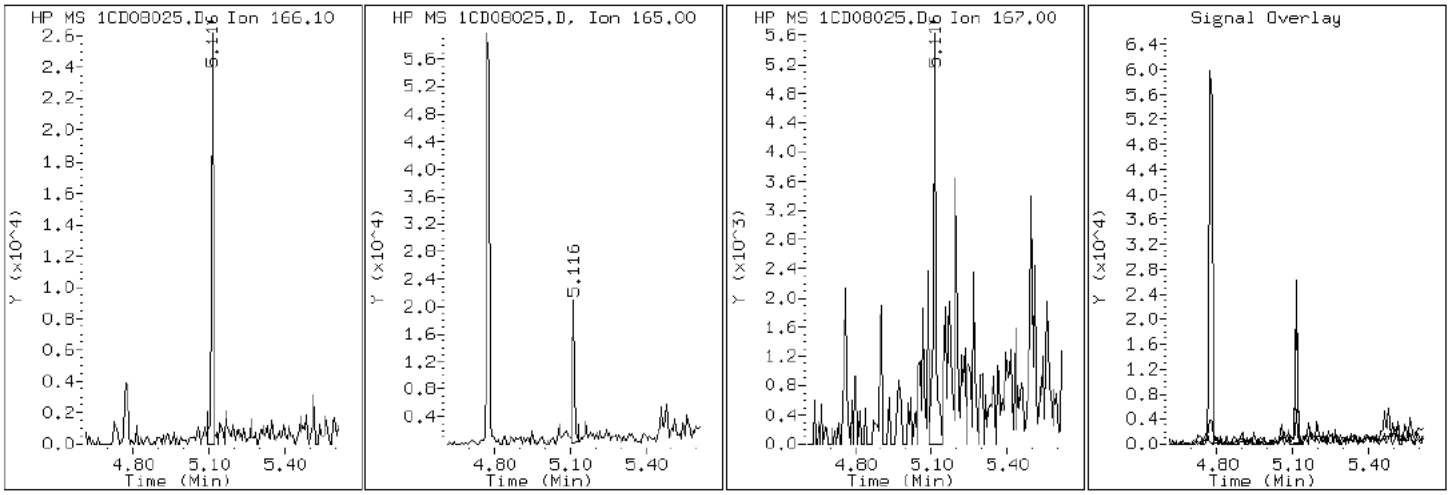
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

9 Fluorene



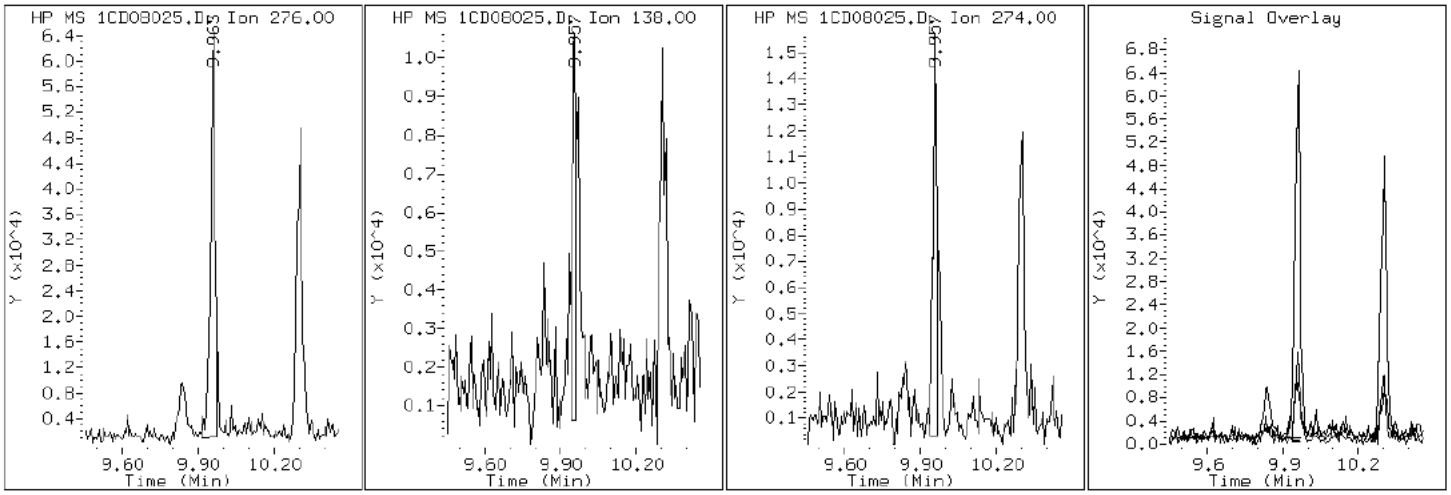
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

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



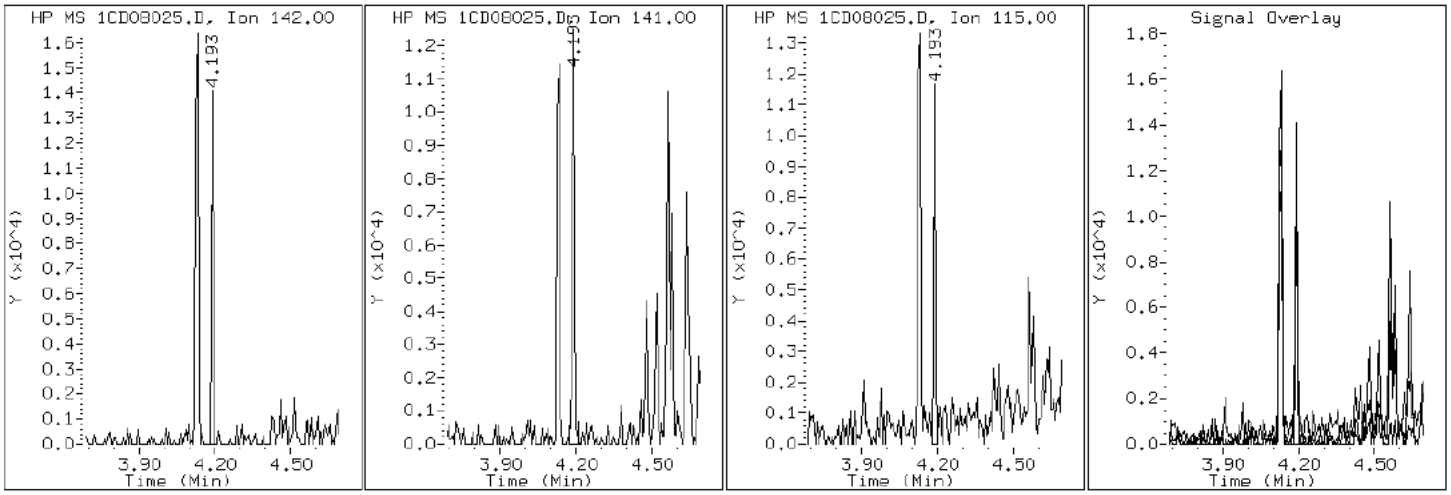
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

4 1-Methylnaphthalene



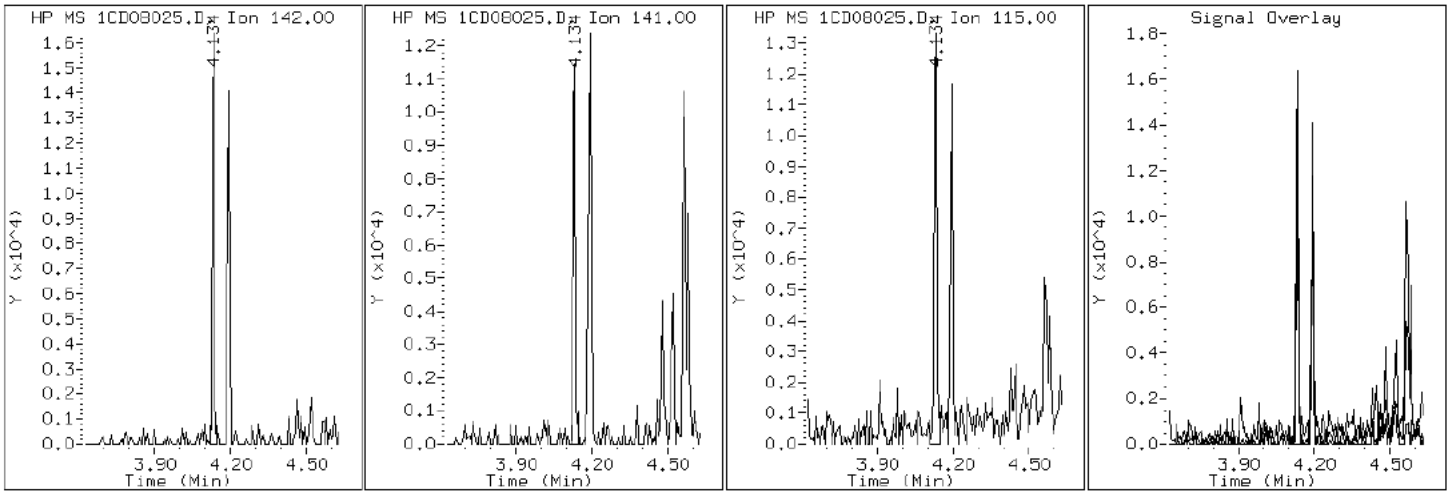
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

3 2-Methylnaphthalene



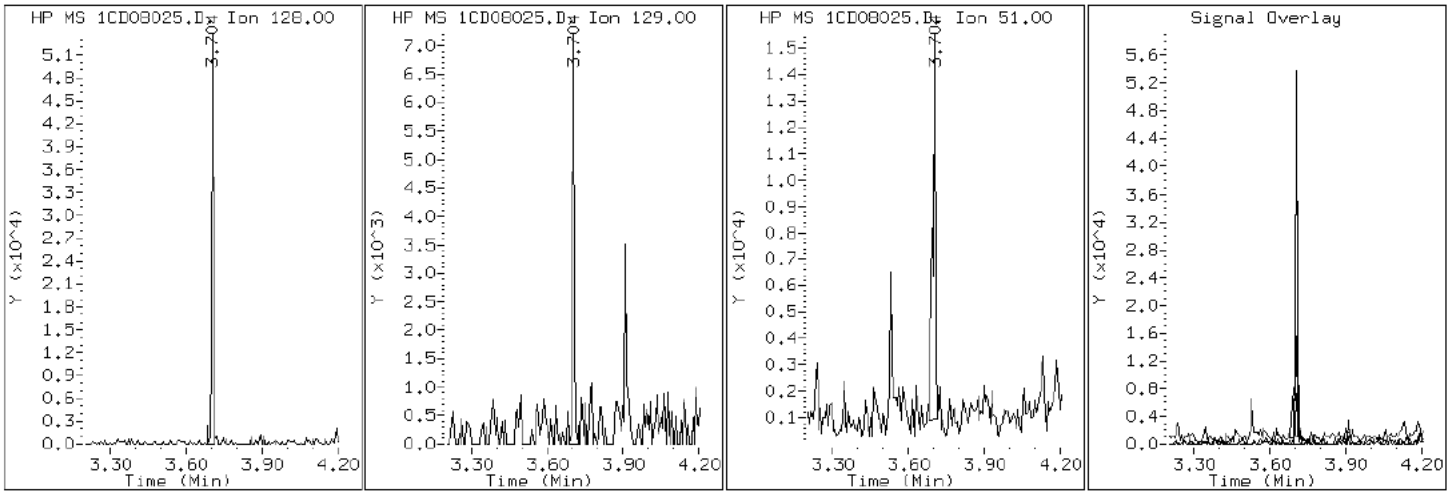
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

2 Naphthalene



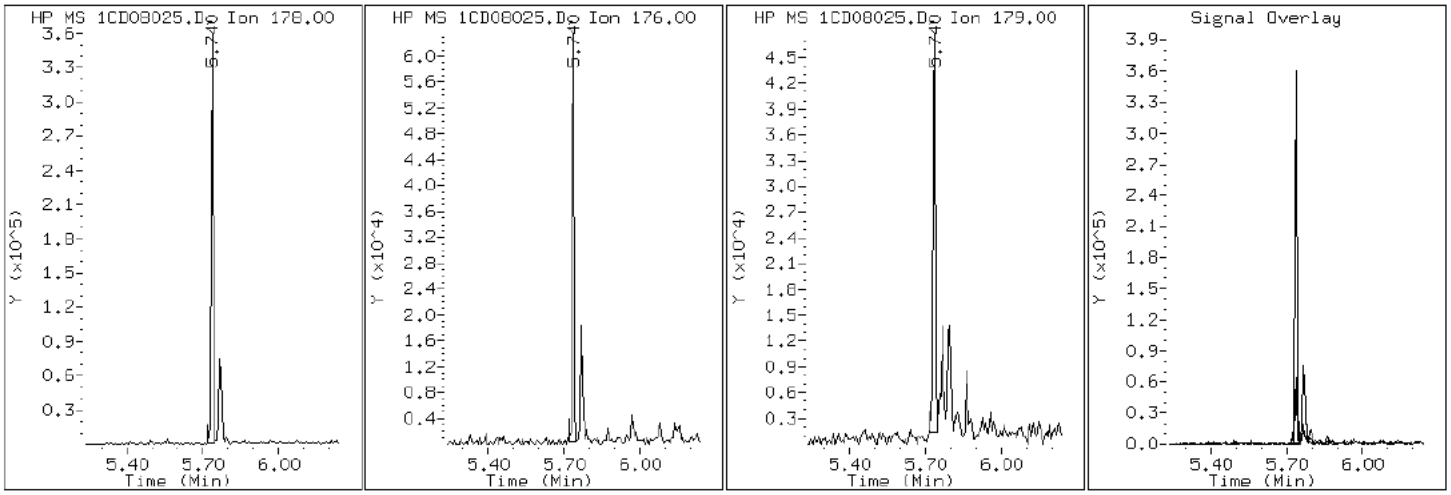
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

11 Phenanthrene



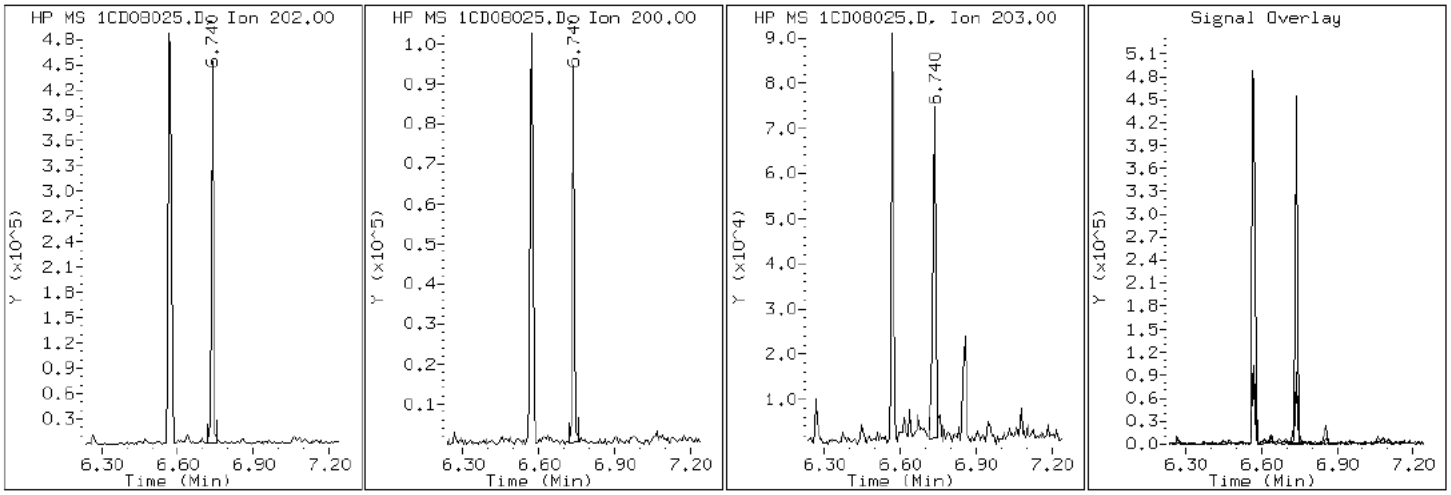
Data File: 1CD08025.D

Date: 08-APR-2013 19:52

Client ID: CV1042B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-33-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08025.D
Inj. Date and Time: 08-APR-2013 19:52
Instrument ID: BSMC5973.i
Client ID: CV1042B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

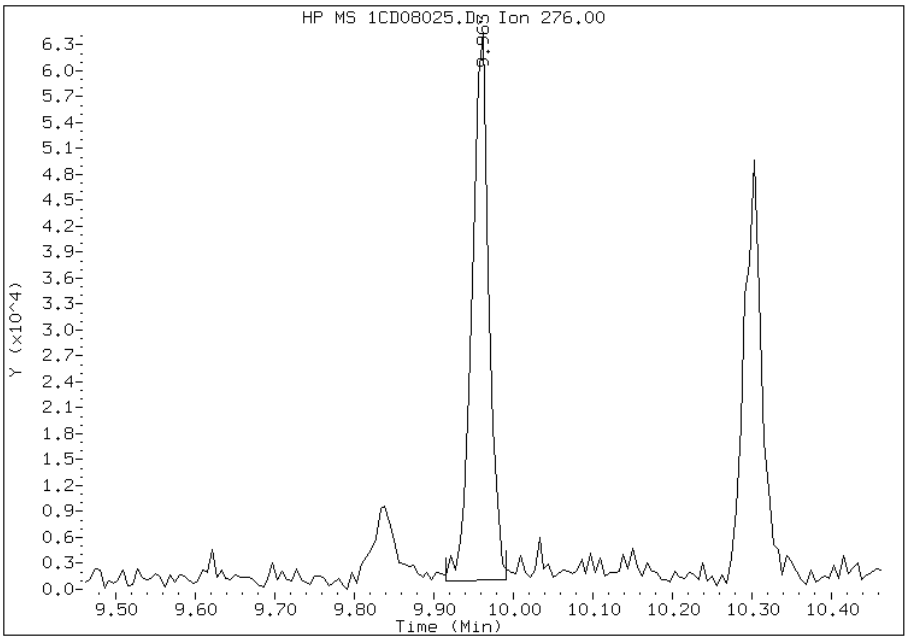
Processing Integration Results

RT: 9.96

Response: 93797

Amount: 6

Conc: 500



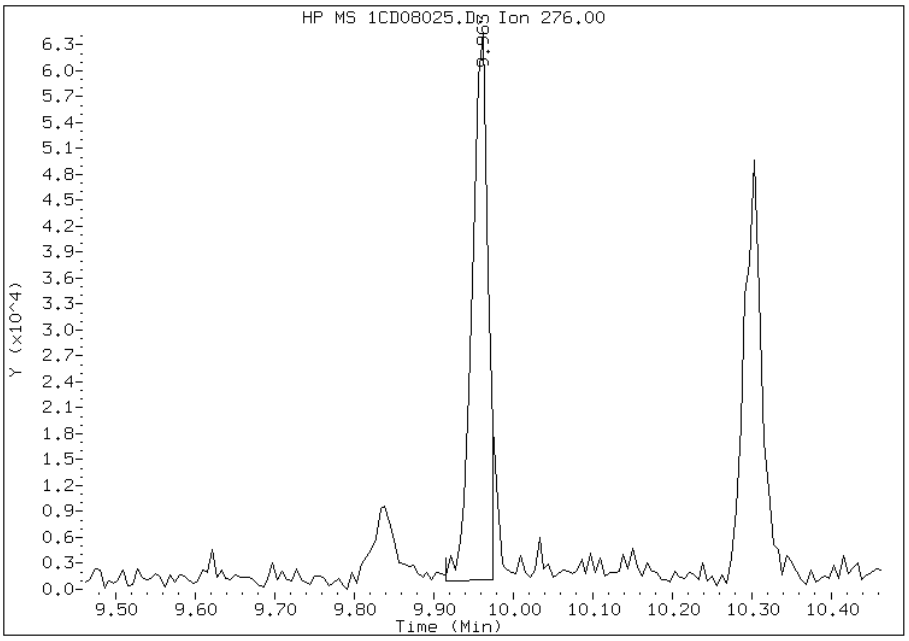
Manual Integration Results

RT: 9.96

Response: 89489

Amount: 6

Conc: 478



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1042C-CS | Lab Sample ID: 680-88811-34

Matrix: Solid | Lab File ID: 1CD08026.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 13:25

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.94(g) | Date Analyzed: 04/08/2013 20:10

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

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

% Moisture: 24.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	43	J	130	27
208-96-8	Acenaphthylene	79		53	6.7
120-12-7	Anthracene	150		11	5.6
56-55-3	Benzo[a]anthracene	670		11	5.2
50-32-8	Benzo[a]pyrene	630		14	6.9
205-99-2	Benzo[b]fluoranthene	910		16	8.1
191-24-2	Benzo[g,h,i]perylene	430		27	5.9
207-08-9	Benzo[k]fluoranthene	470		11	4.8
218-01-9	Chrysene	780		12	6.0
53-70-3	Dibenz(a,h)anthracene	60		27	5.5
206-44-0	Fluoranthene	1200		27	5.3
86-73-7	Fluorene	50		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	390		27	9.5
90-12-0	1-Methylnaphthalene	240		53	5.9
91-57-6	2-Methylnaphthalene	290		53	9.5
91-20-3	Naphthalene	170		53	5.9
85-01-8	Phenanthrene	780		11	5.2
129-00-0	Pyrene	1100		27	4.9

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\1C040813.b\1CD08026.D
Lab Smp Id: 680-88811-A-34-A Client Smp ID: CV1042C-CS
Inj Date : 08-APR-2013 20:10
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-34-A
Misc Info : 680-88811-A-34-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	24.726	% 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	3.692	3.692	(1.000)	448440	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	319333	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	592639	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	57988	6.72003	597.5556
* 18 Chrysene-d12	240	7.662	7.656	(1.000)	647128	40.0000	
* 23 Perylene-d12	264	8.827	8.821	(1.000)	598375	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	21831	1.89537	168.5390
3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	25789	3.28918	292.4794
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	18667	2.64594	235.2810
5 Acenaphthylene	152	4.692	4.686	(0.983)	11683	0.88398	78.6046
7 Acenaphthene	154	4.798	4.798	(1.005)	3938	0.48108	42.7779(Q)
9 Fluorene	166	5.115	5.115	(1.071)	6183	0.56660	50.3827(Q)
11 Phenanthrene	178	5.739	5.739	(1.003)	151848	8.79748	782.2856
12 Anthracene	178	5.768	5.768	(1.008)	28874	1.65023	146.7408

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	20428	1.36273	121.1764
15 Fluoranthene	202	6.574	6.568	(1.149)	267138	14.0142	1246.1654
16 Pyrene	202	6.739	6.739	(0.879)	222925	12.4359	1105.8186
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	138661	7.53069	669.6410
19 Chrysene	228	7.680	7.674	(1.002)	161972	8.78358	781.0496
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	173627	10.2637	912.6666(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	87223	5.33103	474.0438(M)
22 Benzo(a)pyrene	252	8.774	8.768	(0.994)	112724	7.07774	629.3636
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	65763	4.34733	386.5716(M)
25 Dibenzo(a,h)anthracene	278	9.980	9.968	(1.131)	9467	0.67747	60.2420
26 Benzo(g,h,i)perylene	276	10.303	10.297	(1.167)	73801	4.78013	425.0566

QC Flag Legend

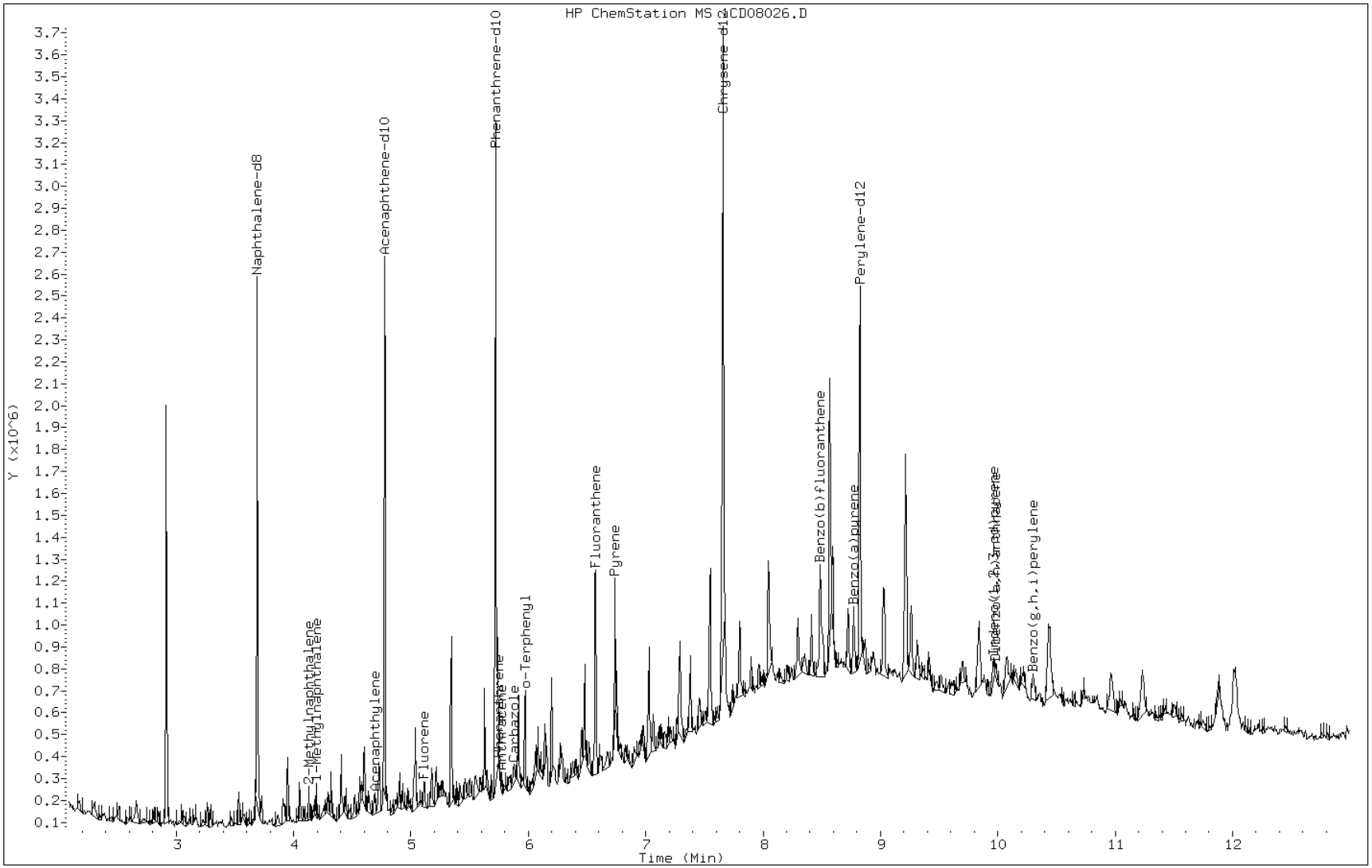
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP



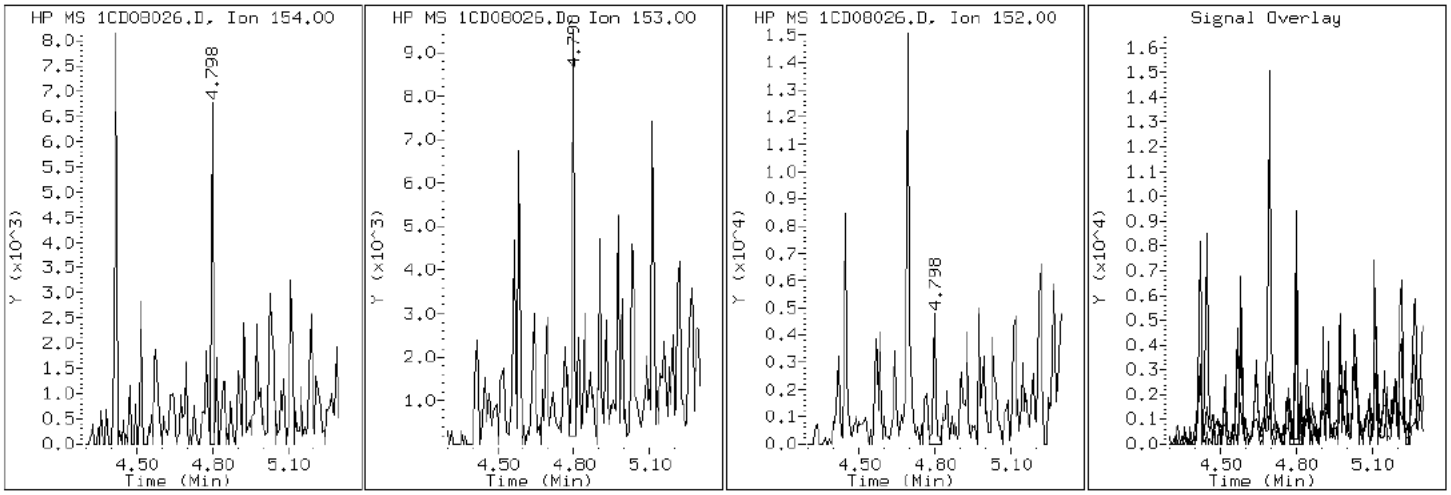
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

7 Acenaphthene



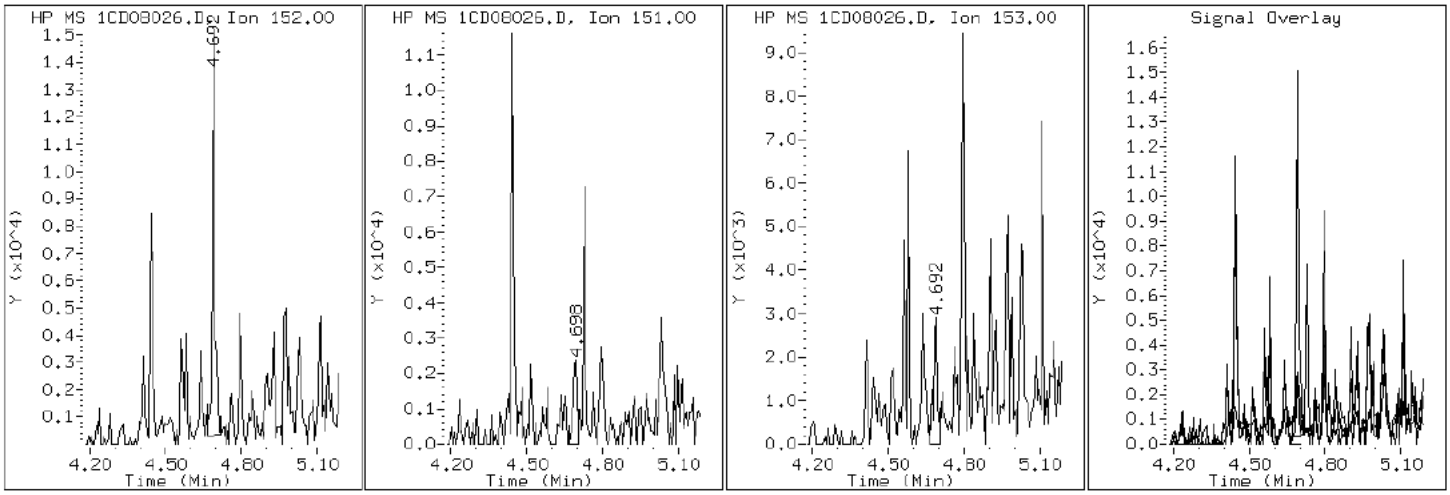
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

5 Acenaphthylene



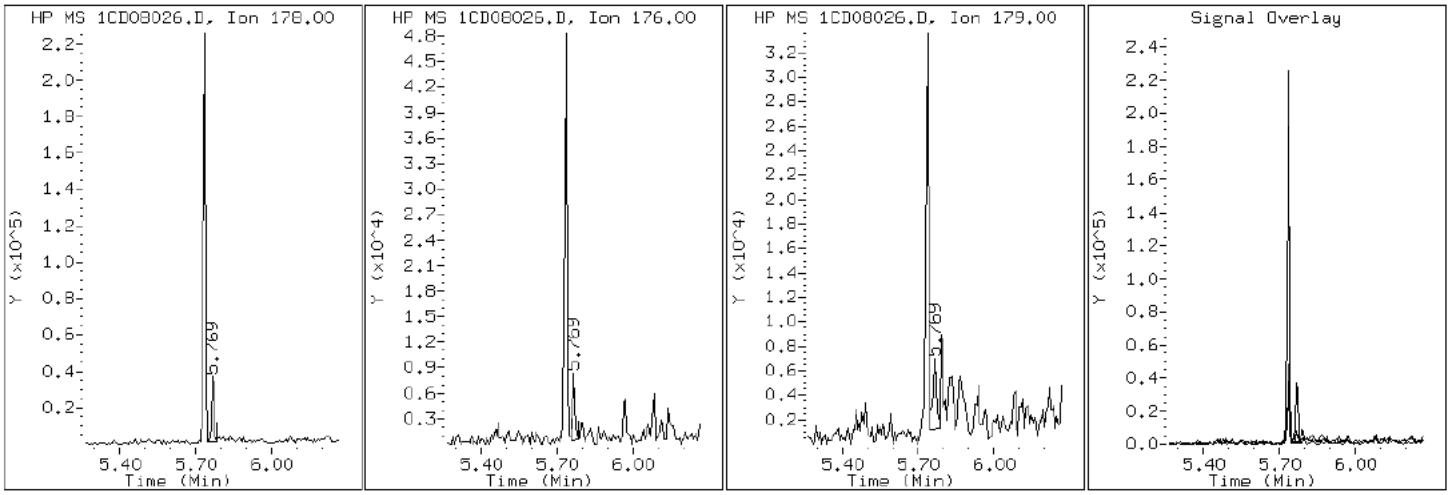
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

12 Anthracene



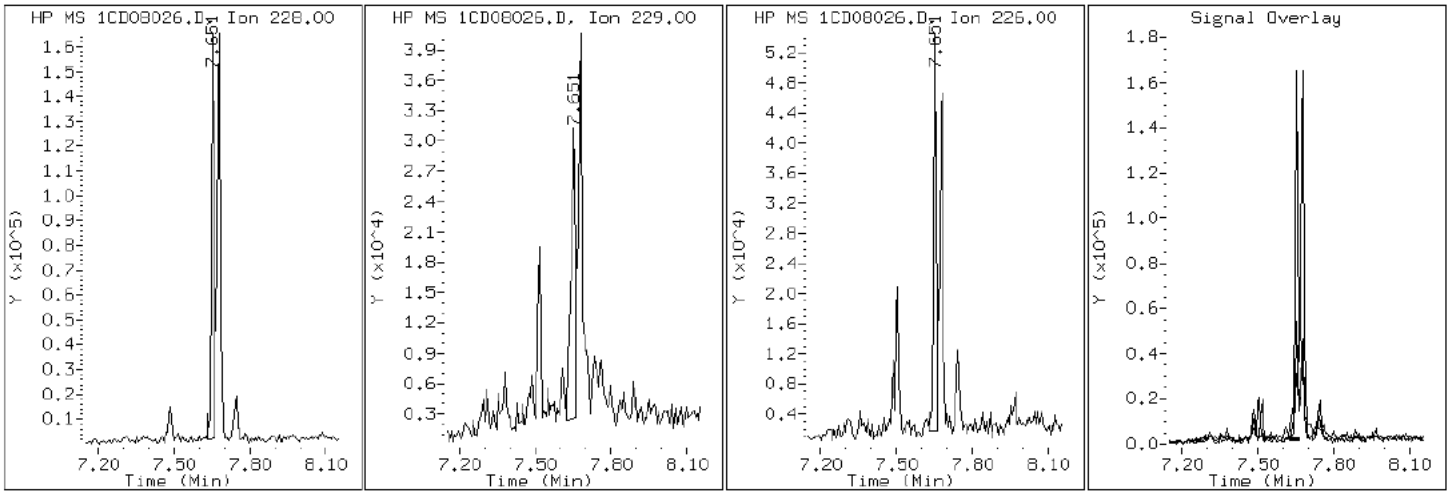
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

17 Benzo(a)anthracene



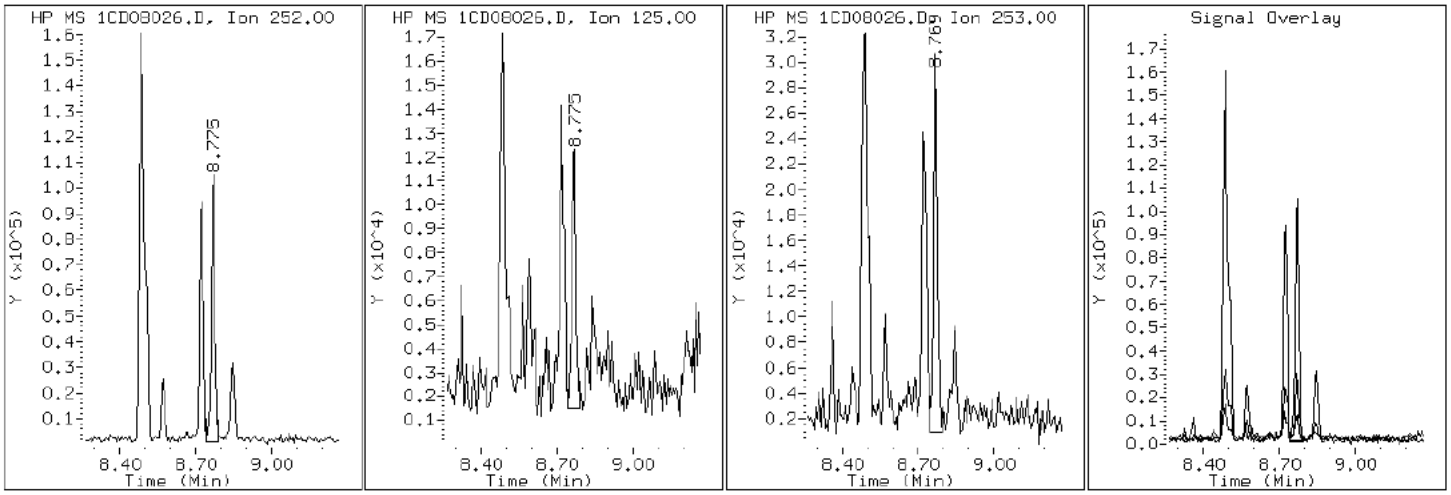
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

22 Benzo(a)pyrene



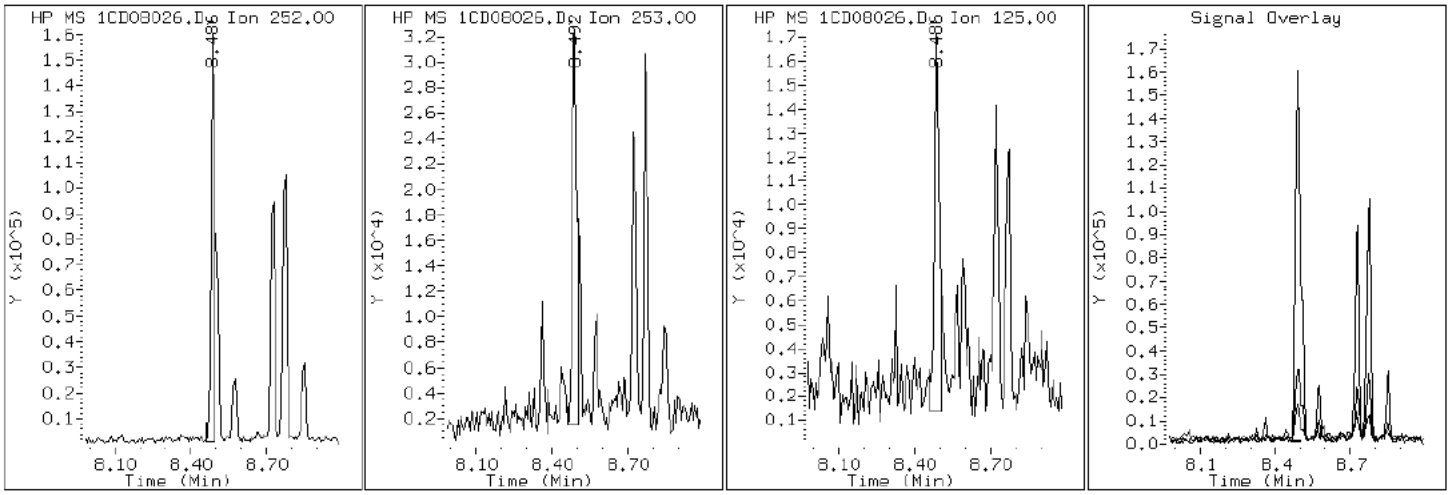
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

20 Benzo(b)fluoranthene



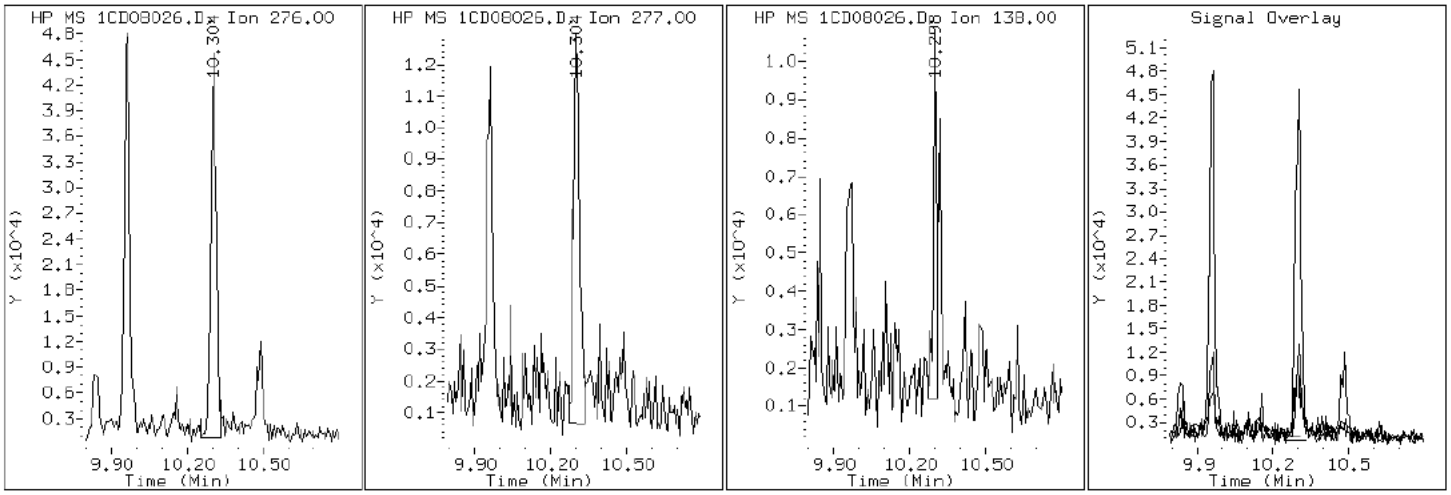
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

26 Benzo(g,h,i)perylene



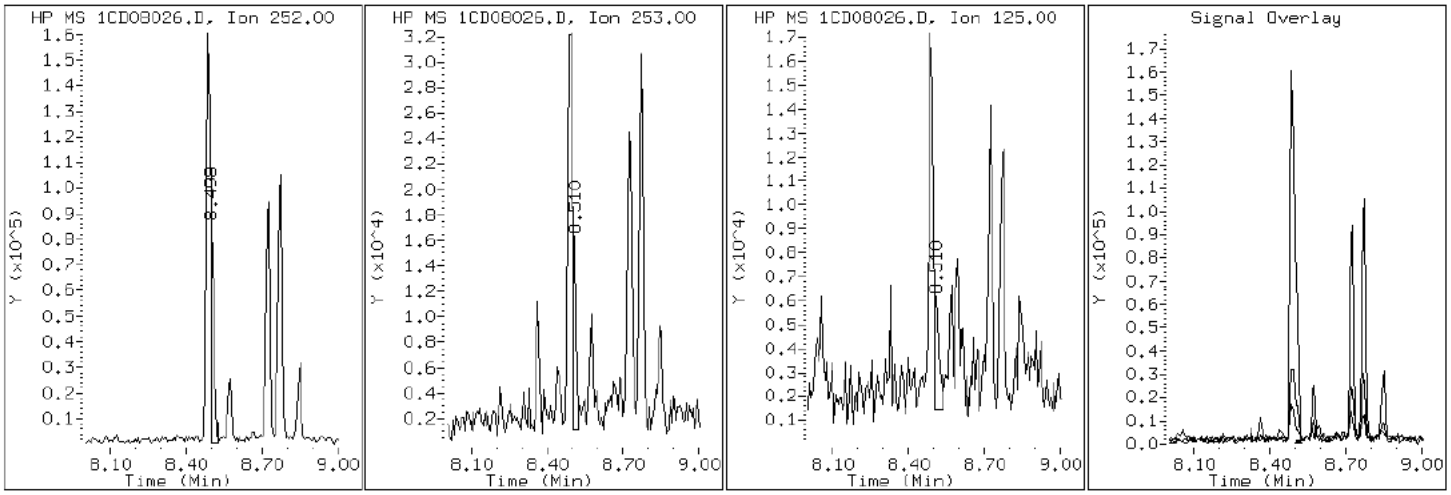
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

21 Benzo(k)fluoranthene



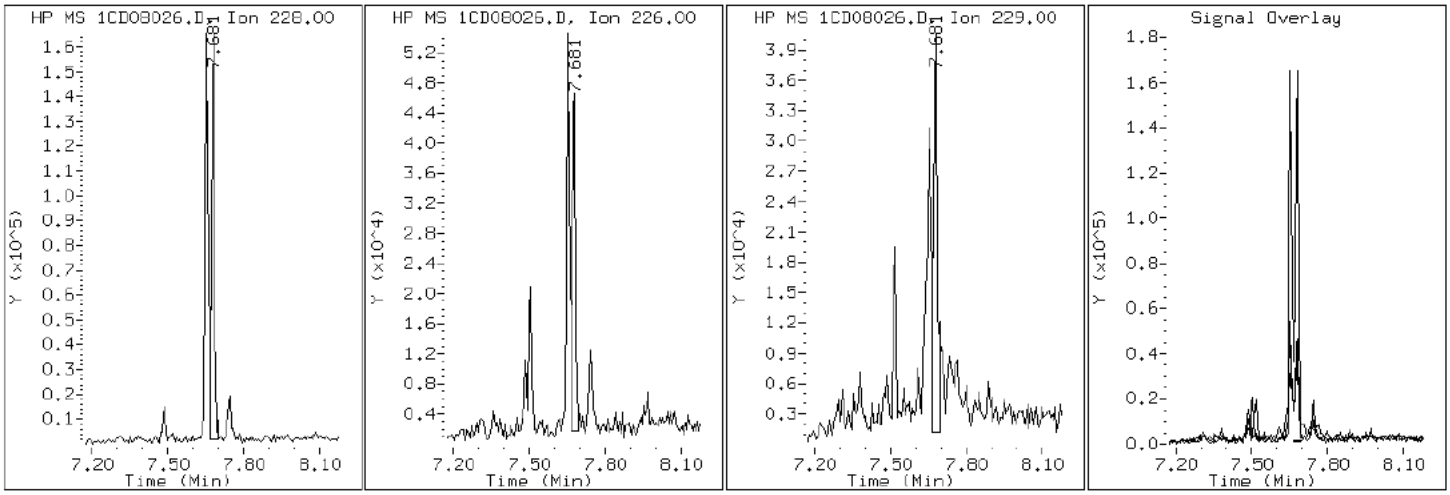
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

19 Chrysene



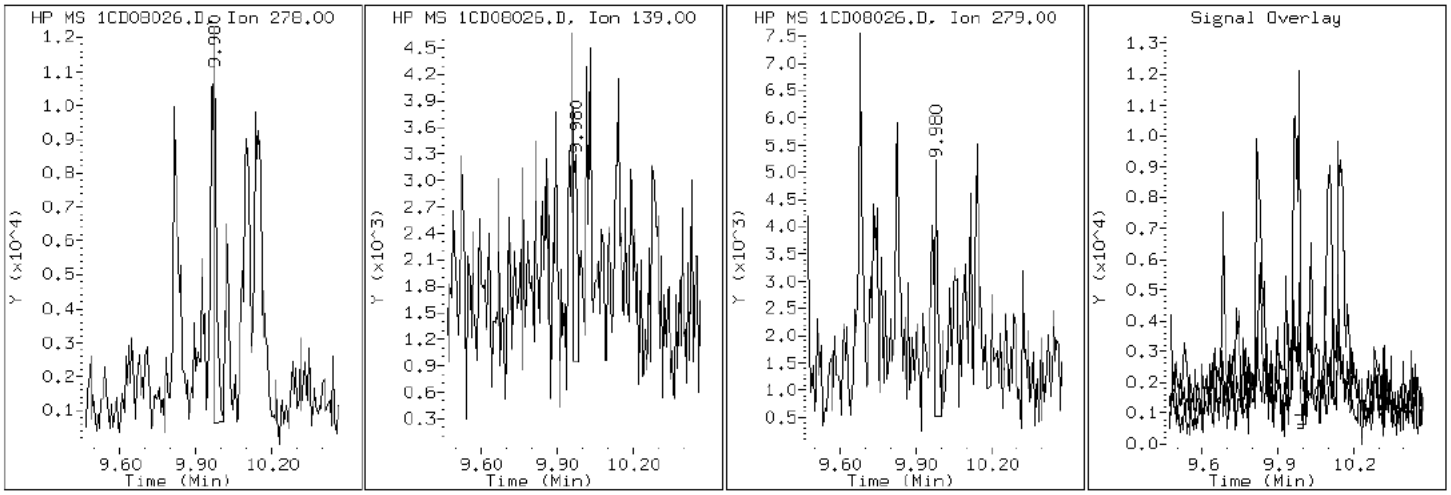
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

25 Dibenzo(a,h)anthracene



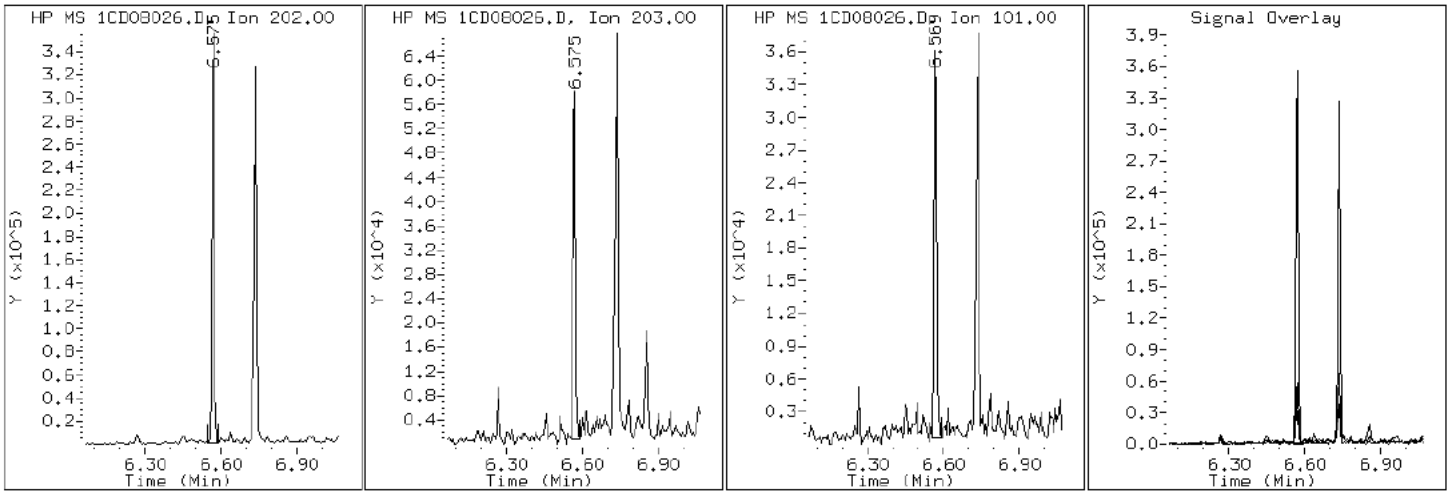
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

15 Fluoranthene



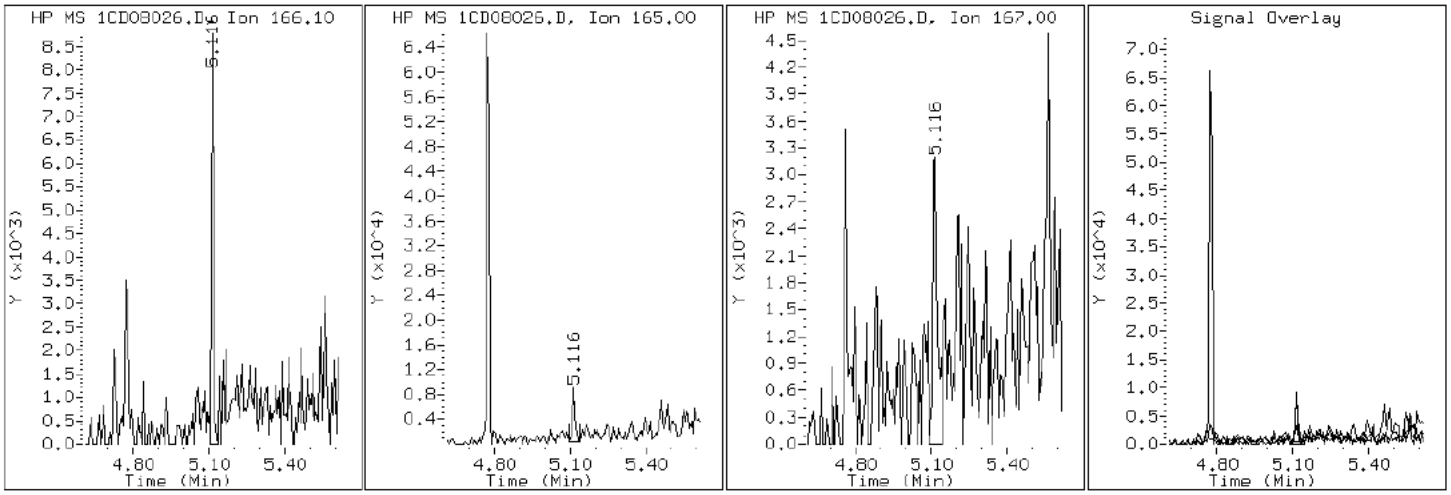
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

9 Fluorene



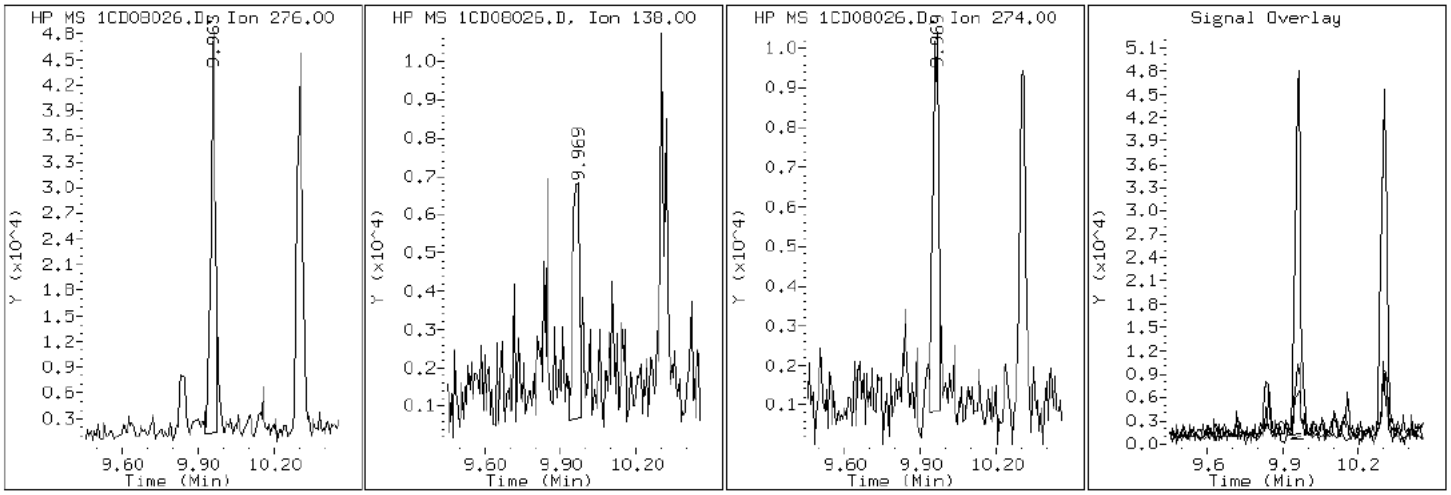
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

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



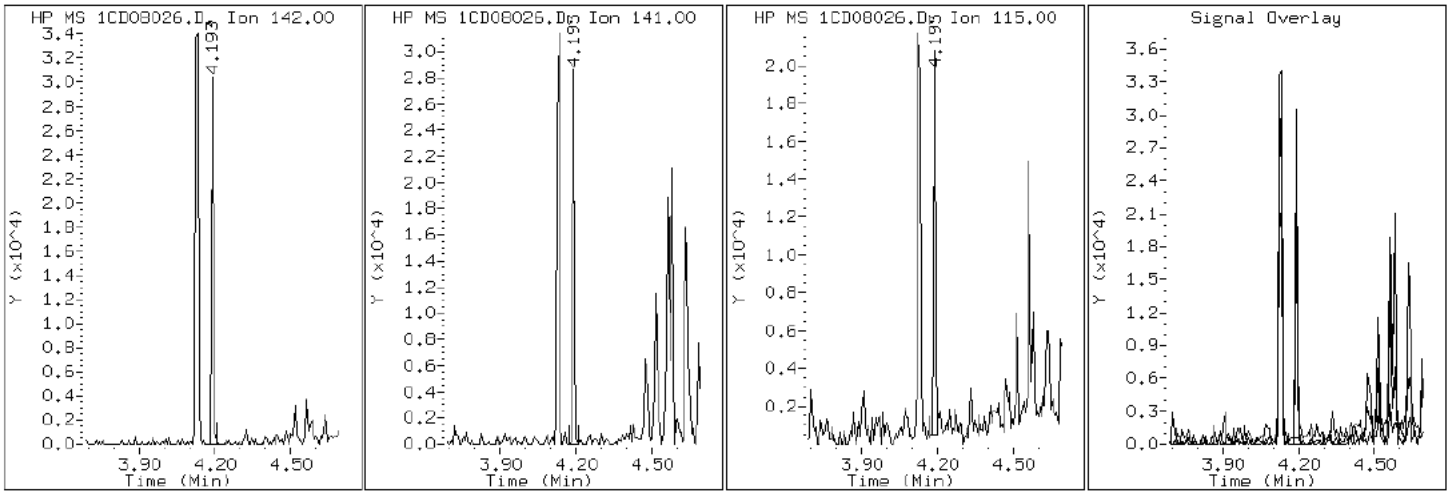
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

4 1-Methylnaphthalene



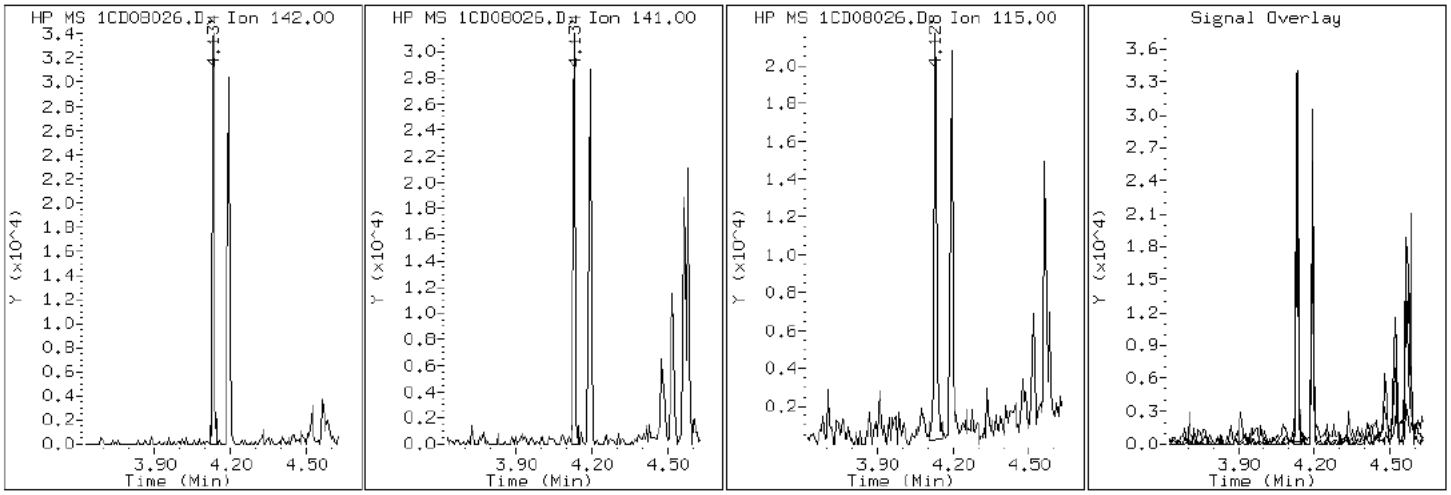
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

3 2-Methylnaphthalene



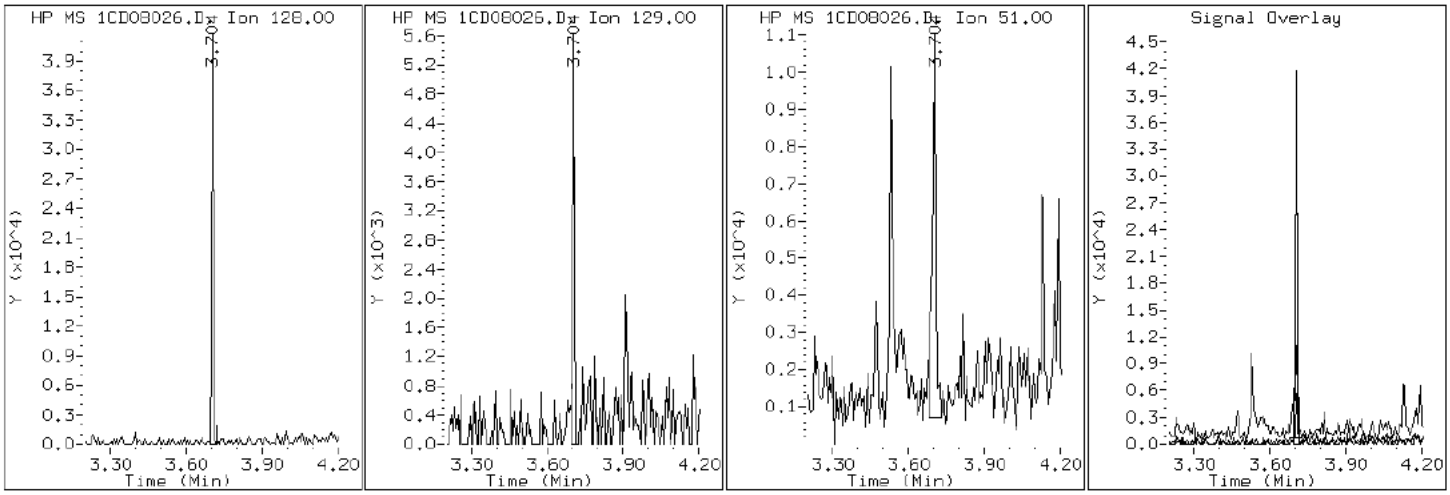
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

2 Naphthalene



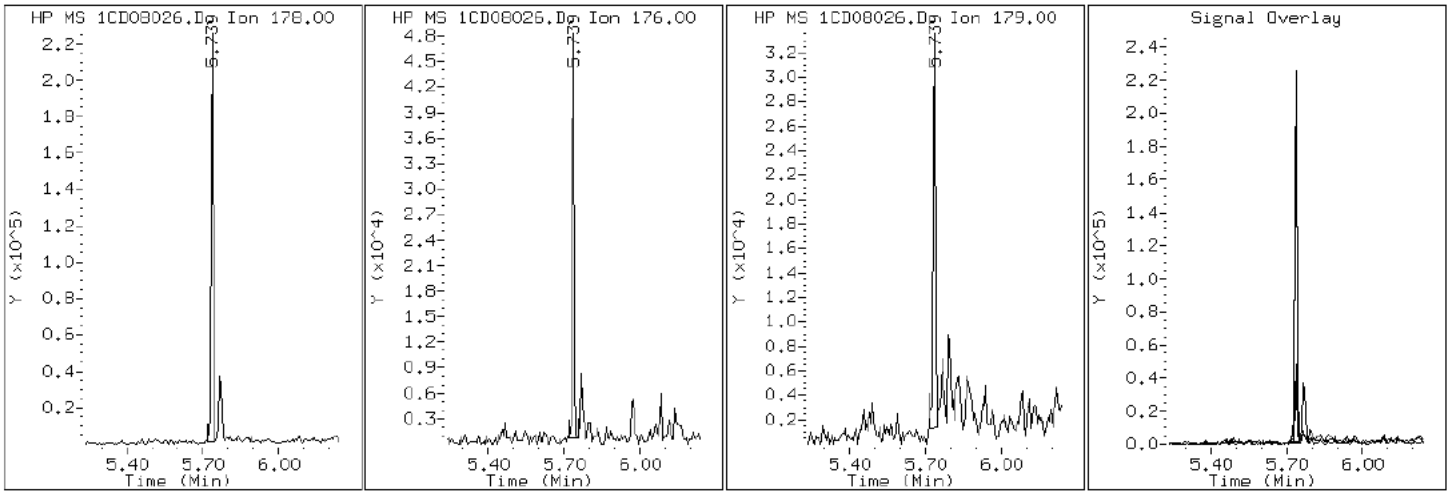
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

11 Phenanthrene



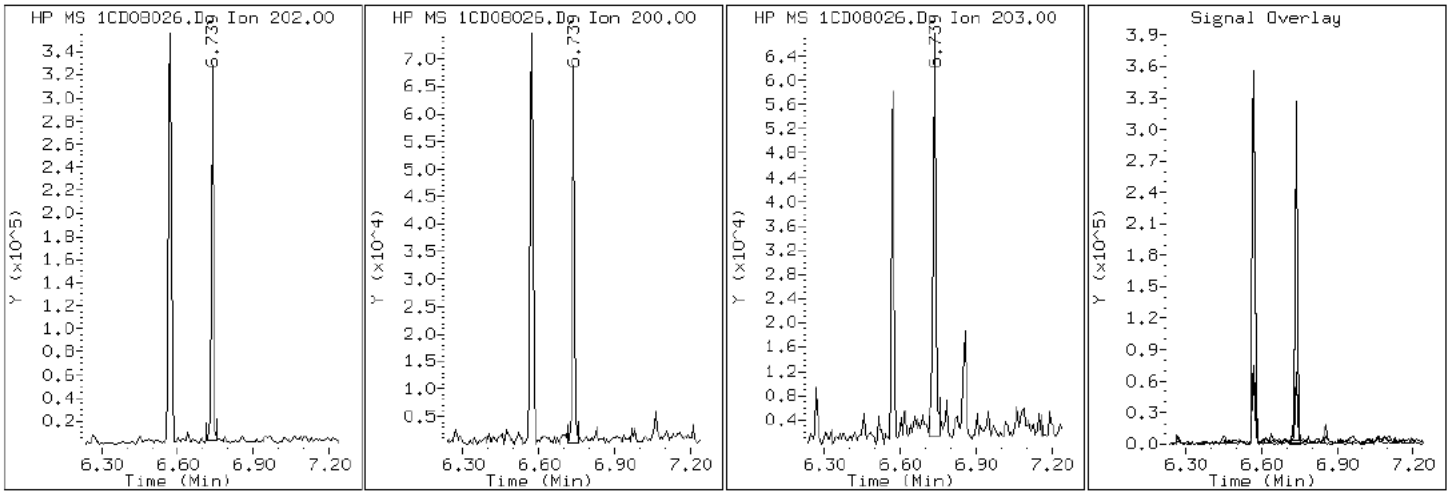
Data File: 1CD08026.D

Date: 08-APR-2013 20:10

Client ID: CV1042C-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-34-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08026.D
Inj. Date and Time: 08-APR-2013 20:10
Instrument ID: BSMC5973.i
Client ID: CV1042C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

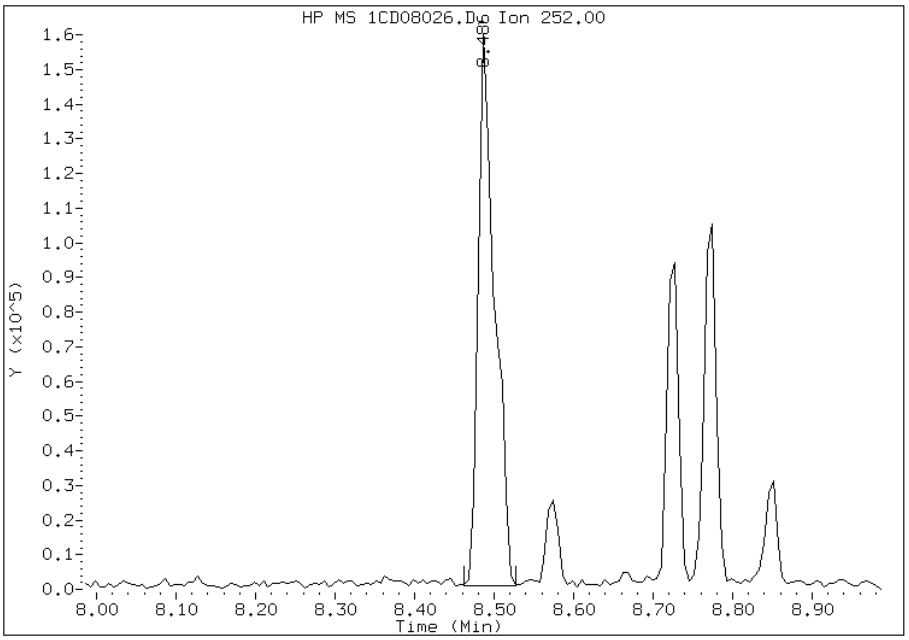
Processing Integration Results

RT: 8.49

Response: 228838

Amount: 14

Conc: 1203



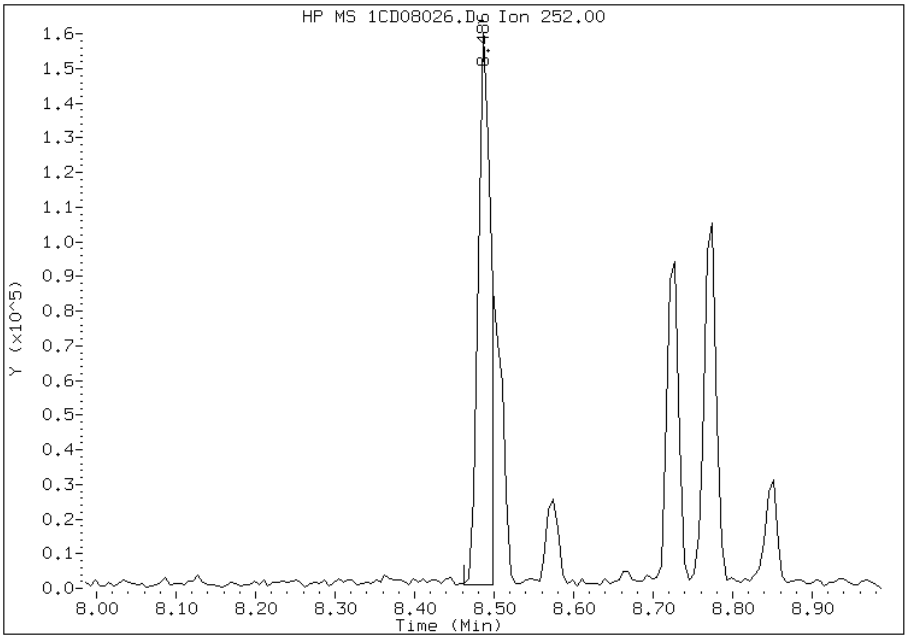
Manual Integration Results

RT: 8.49

Response: 173627

Amount: 10

Conc: 913



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08026.D
Inj. Date and Time: 08-APR-2013 20:10
Instrument ID: BSMC5973.i
Client ID: CV1042C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

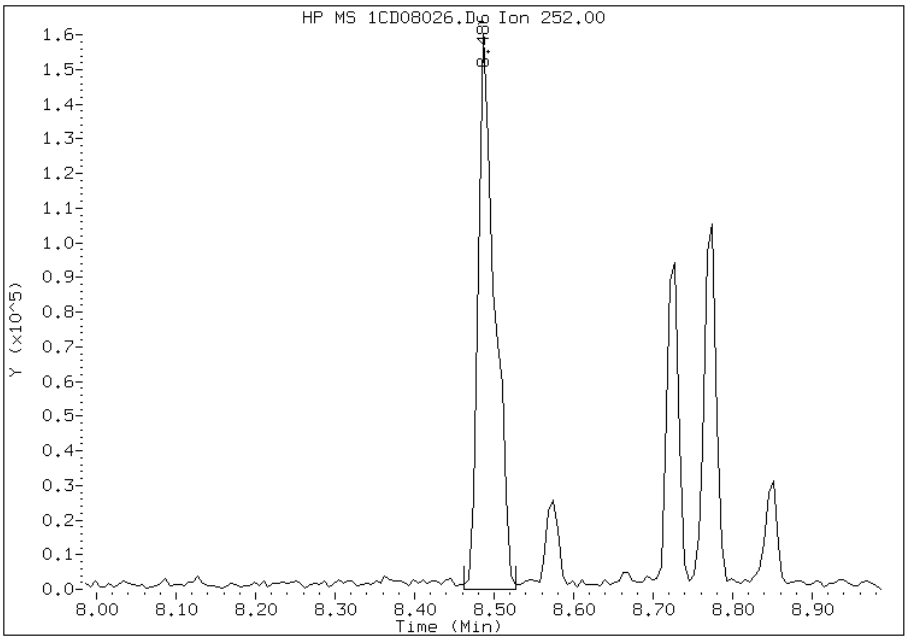
Processing Integration Results

RT: 8.49

Response: 233565

Amount: 14

Conc: 1269



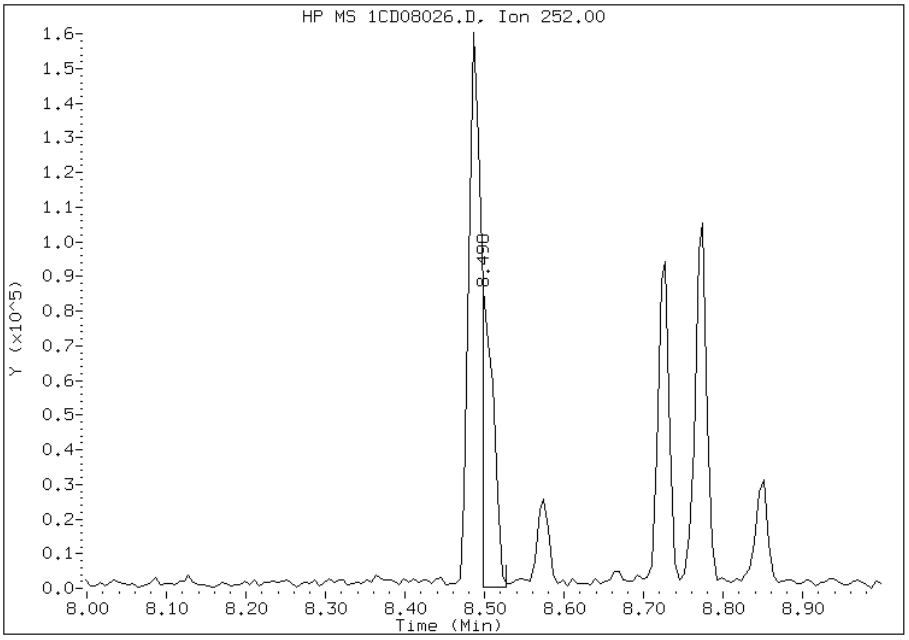
Manual Integration Results

RT: 8.50

Response: 87223

Amount: 5

Conc: 474



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08026.D
Inj. Date and Time: 08-APR-2013 20:10
Instrument ID: BSMC5973.i
Client ID: CV1042C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

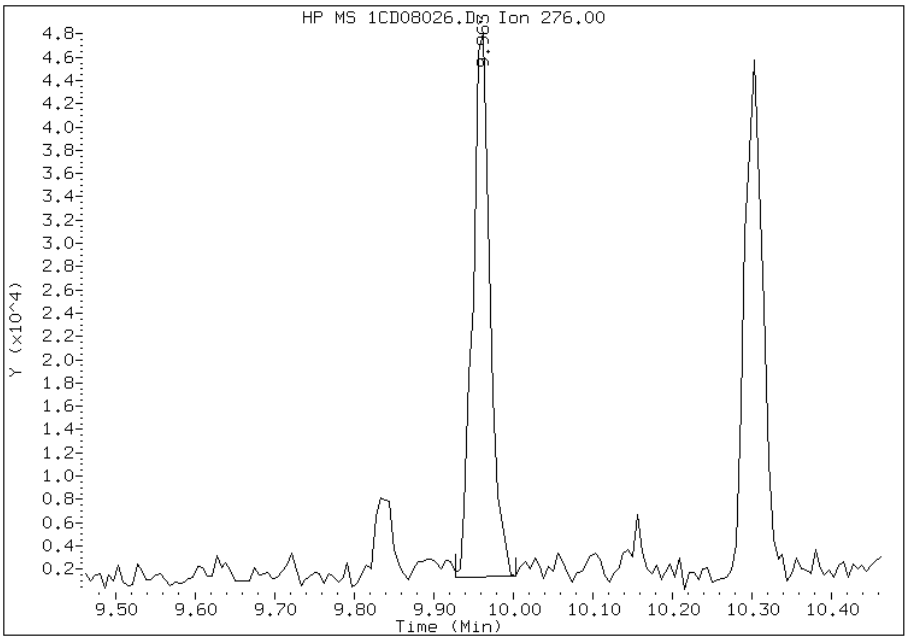
Processing Integration Results

RT: 9.96

Response: 70710

Amount: 5

Conc: 416



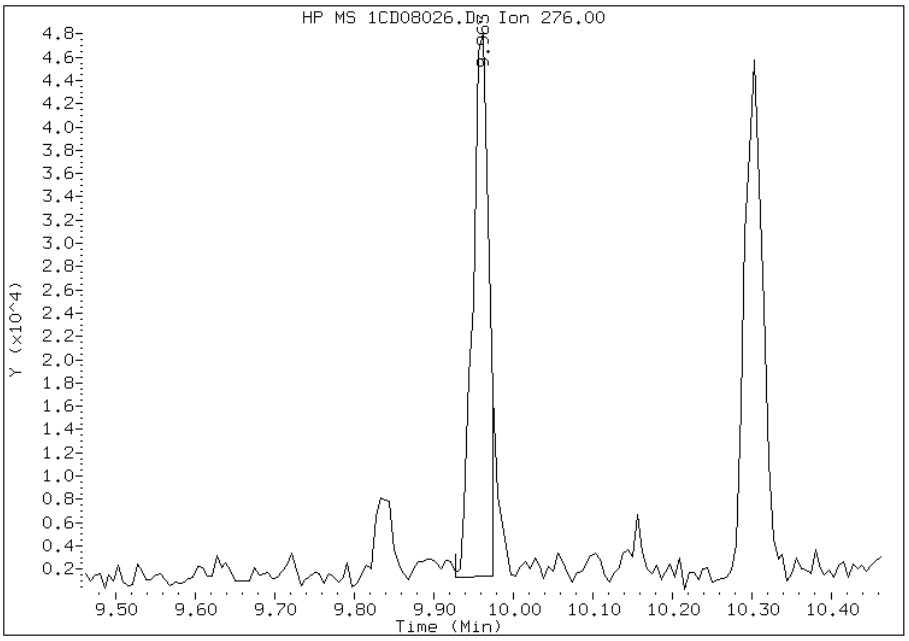
Manual Integration Results

RT: 9.96

Response: 65763

Amount: 4

Conc: 387



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1047A-CS | Lab Sample ID: 680-88811-35

Matrix: Solid | Lab File ID: 1CD09015.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:50

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.95(g) | Date Analyzed: 04/09/2013 15:31

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

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

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

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	37	J	42	21
56-55-3	Benzo[a]anthracene	270		40	20
50-32-8	Benzo[a]pyrene	310		52	26
205-99-2	Benzo[b]fluoranthene	460		61	31
191-24-2	Benzo[g,h,i]perylene	290		100	22
207-08-9	Benzo[k]fluoranthene	150		40	18
218-01-9	Chrysene	400		45	23
53-70-3	Dibenz(a,h)anthracene	130		100	21
206-44-0	Fluoranthene	250		100	20
86-73-7	Fluorene	25	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	36
90-12-0	1-Methylnaphthalene	110	J	200	22
91-57-6	2-Methylnaphthalene	180	J	200	36
91-20-3	Naphthalene	120	J	200	22
85-01-8	Phenanthrene	210		40	20
129-00-0	Pyrene	280		100	19

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09015.D
Lab Smp Id: 680-88811-A-35-B Client Smp ID: CV1047A-CS
Inj Date : 09-APR-2013 15:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-35-b
Misc Info : 680-88811-A-35-B
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	20.110	% 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	3.686	3.686	(1.000)	400756	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	301814	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	599110	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	13092	2.06418	691.3086
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	624636	40.0000	
*	23 Perylene-d12	264	8.815	8.827	(1.000)	594086	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	3801	0.36927	123.6706(Q)
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	3854	0.55003	184.2105
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	2000	0.31722	106.2390(Q)
	9 Fluorene	166	5.116	5.110	(1.071)	771	0.07475	25.0356(Q)
	11 Phenanthrene	178	5.733	5.733	(1.003)	11180	0.64073	214.5849
	12 Anthracene	178	5.763	5.768	(1.008)	1938	0.10957	36.6943
	15 Fluoranthene	202	6.563	6.568	(1.148)	14317	0.74297	248.8245
	16 Pyrene	202	6.733	6.733	(0.880)	14439	0.83448	279.4749

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	12113	0.80490	269.5668
19 Chrysene	228	7.668	7.674	(1.002)	21170	1.18937	398.3274(M)
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	22945	1.36615	457.5353
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.964)	7429	0.45734	153.1649
22 Benzo(a)pyrene	252	8.756	8.768	(0.993)	14871	0.94046	314.9684
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.956	(1.127)	10897	0.72556	242.9948(M)
25 Dibenzo(a,h)anthracene	278	9.956	9.974	(1.129)	5355	0.38598	129.2672
26 Benzo(g,h,i)perylene	276	10.280	10.298	(1.166)	13407	0.87465	292.9259

QC Flag Legend

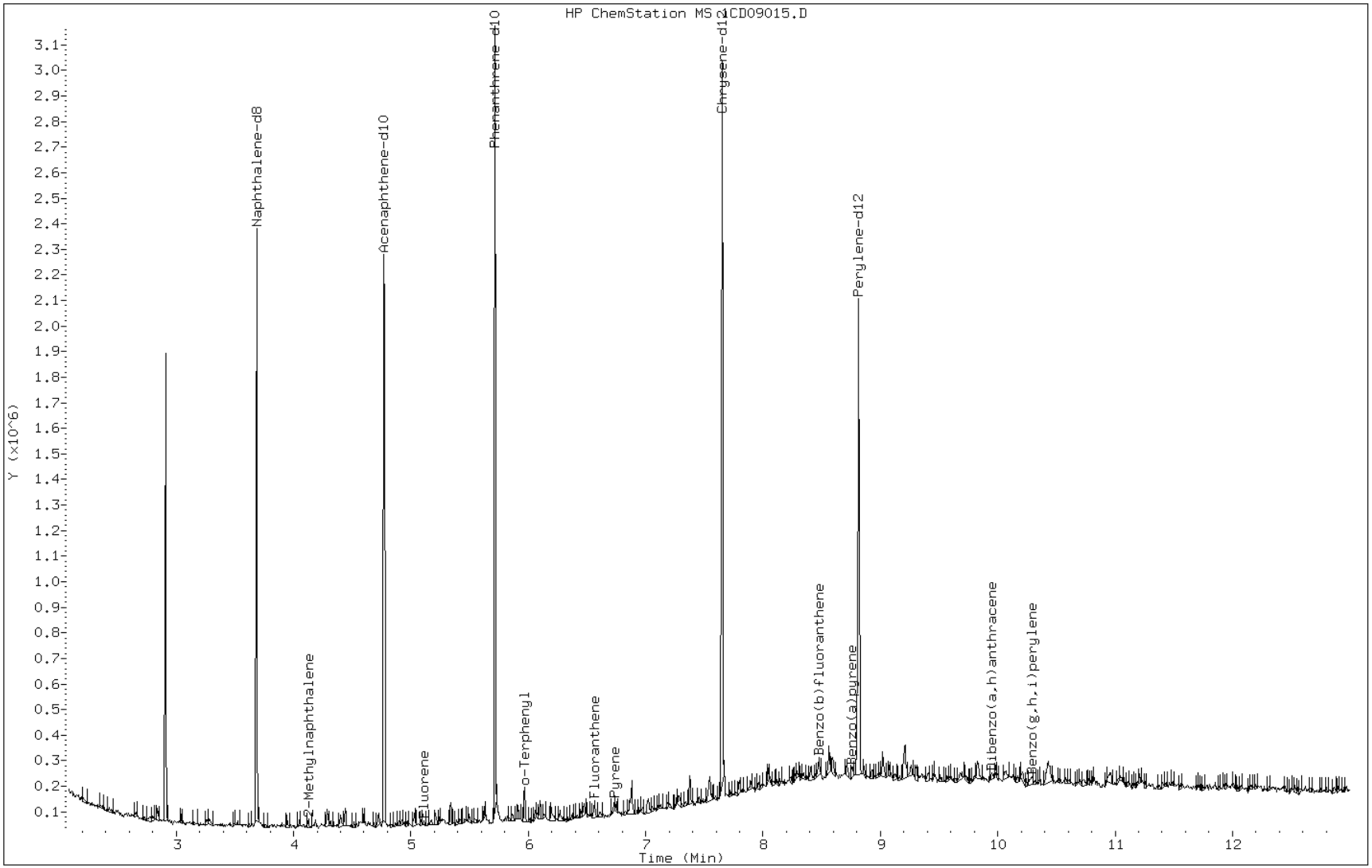
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC



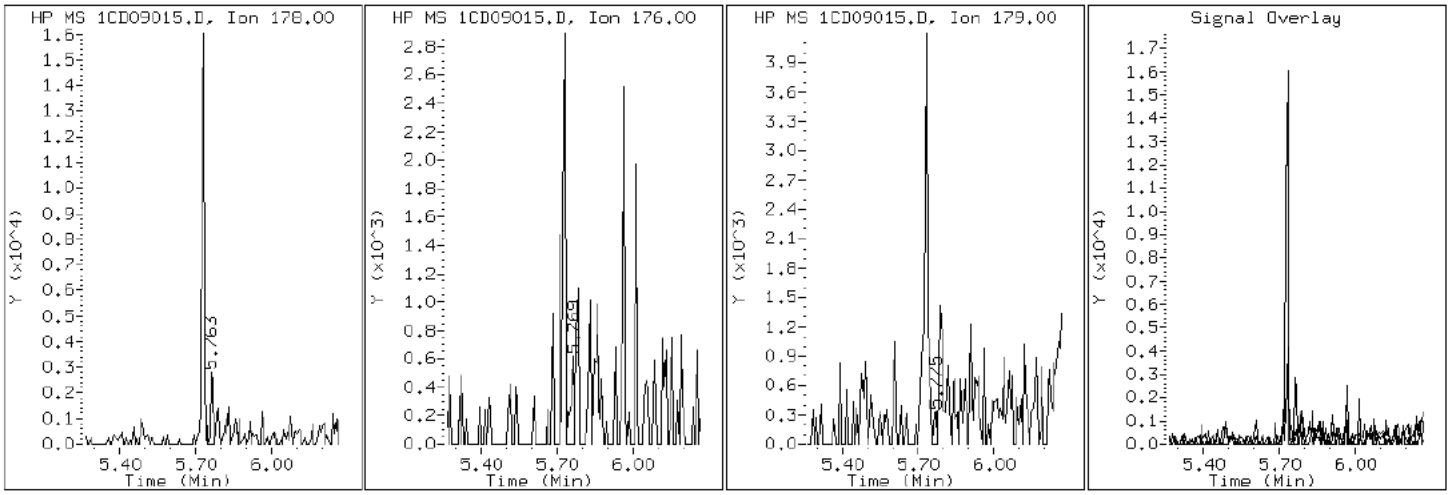
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

12 Anthracene



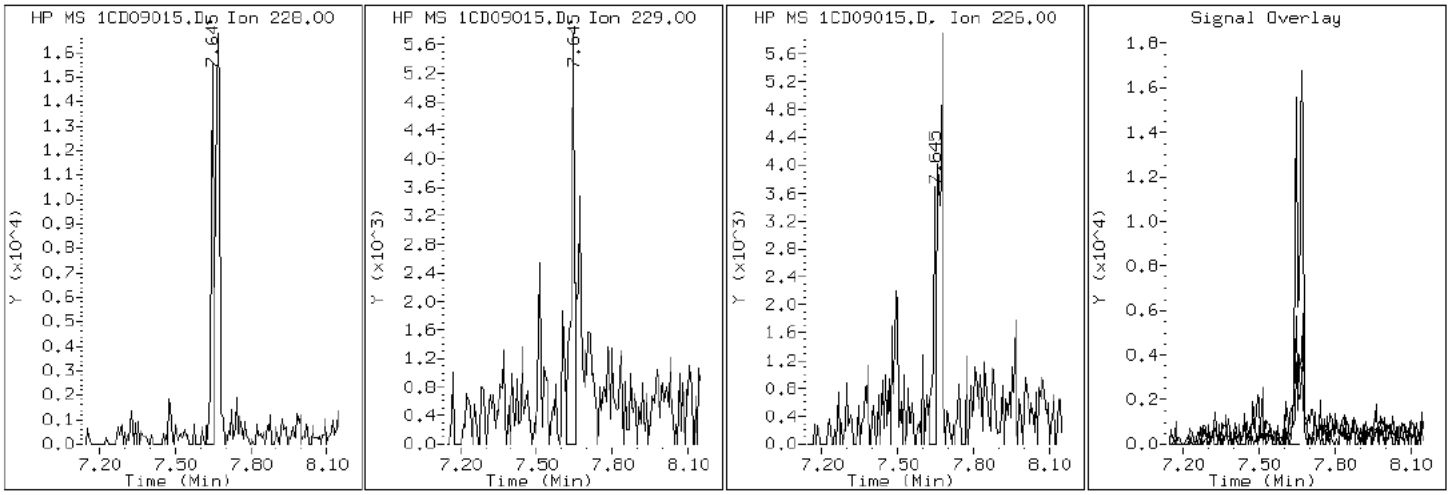
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

17 Benzo(a)anthracene



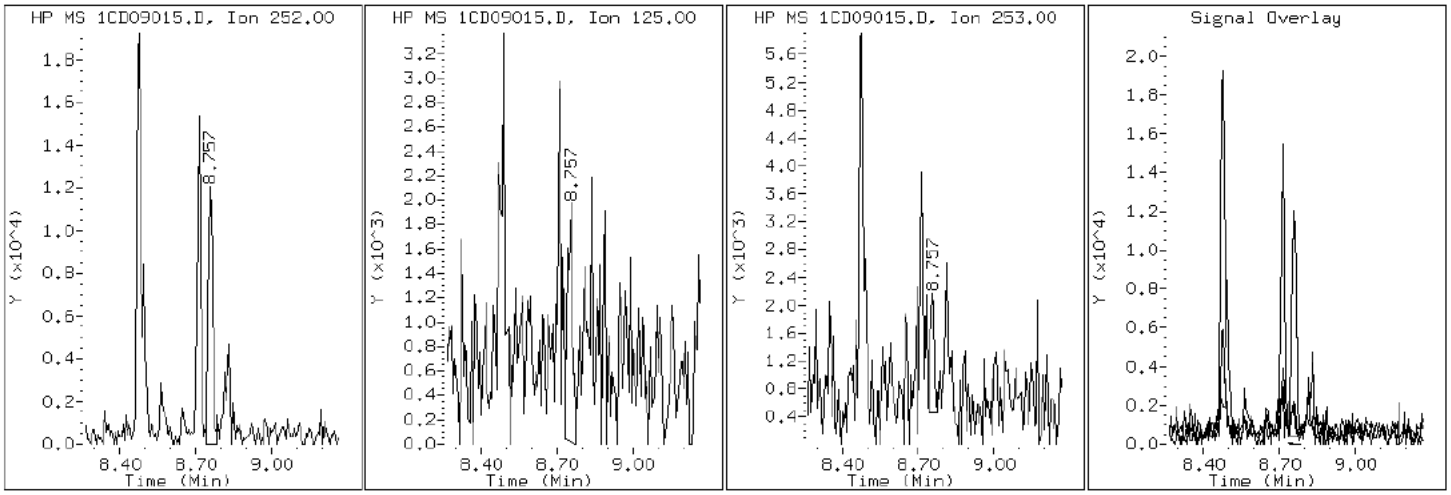
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

22 Benzo(a)pyrene



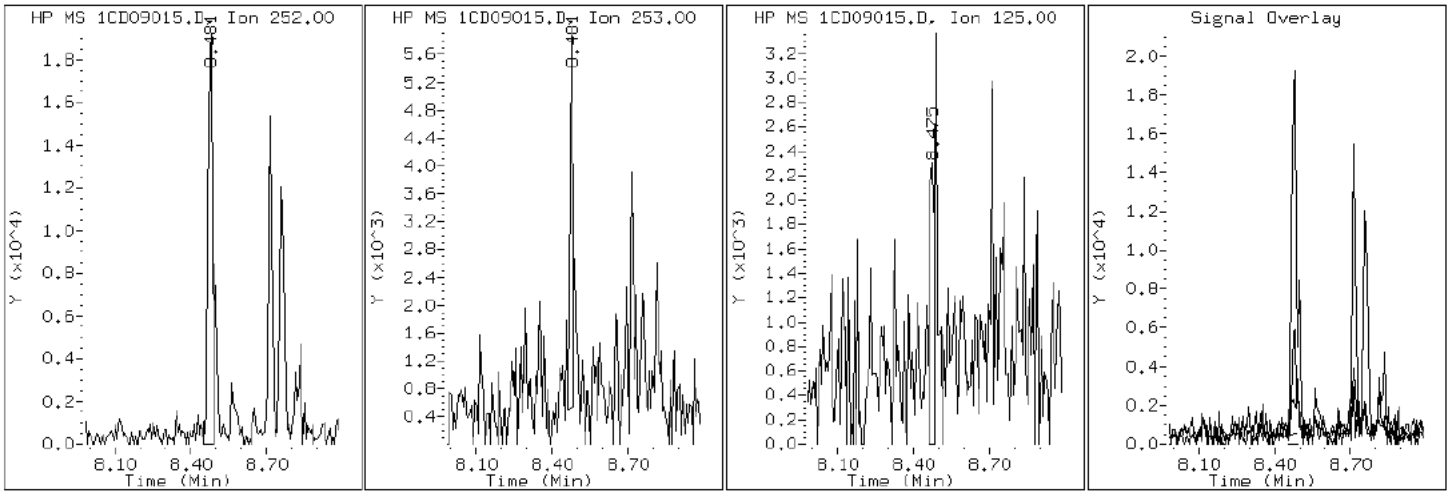
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

20 Benzo(b)fluoranthene



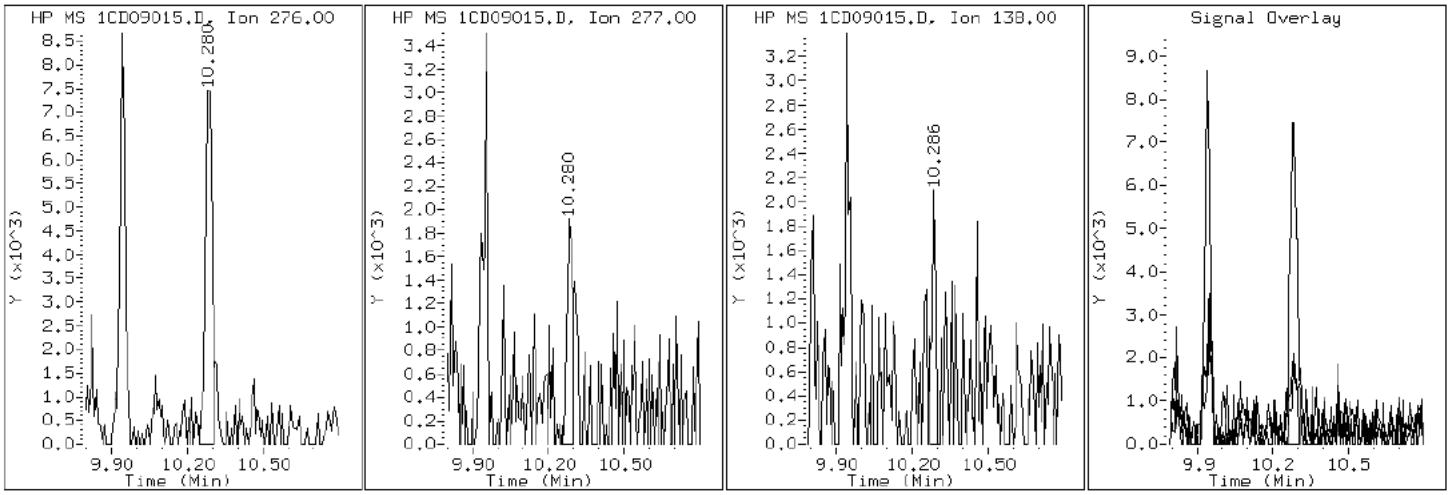
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

26 Benzo(g,h,i)perylene



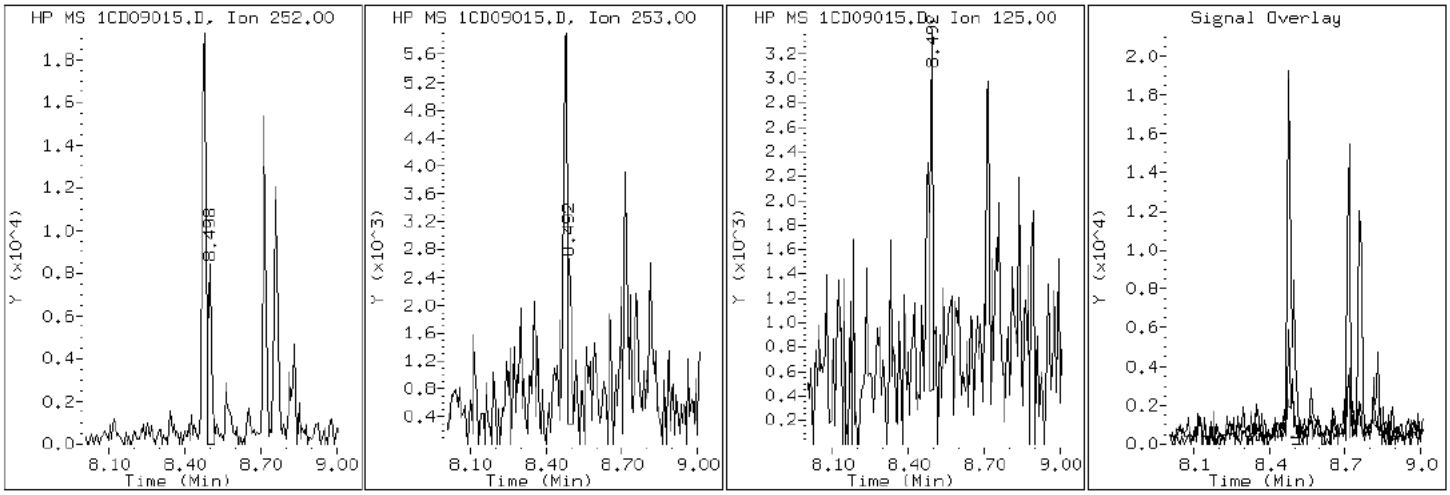
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

21 Benzo(k)fluoranthene



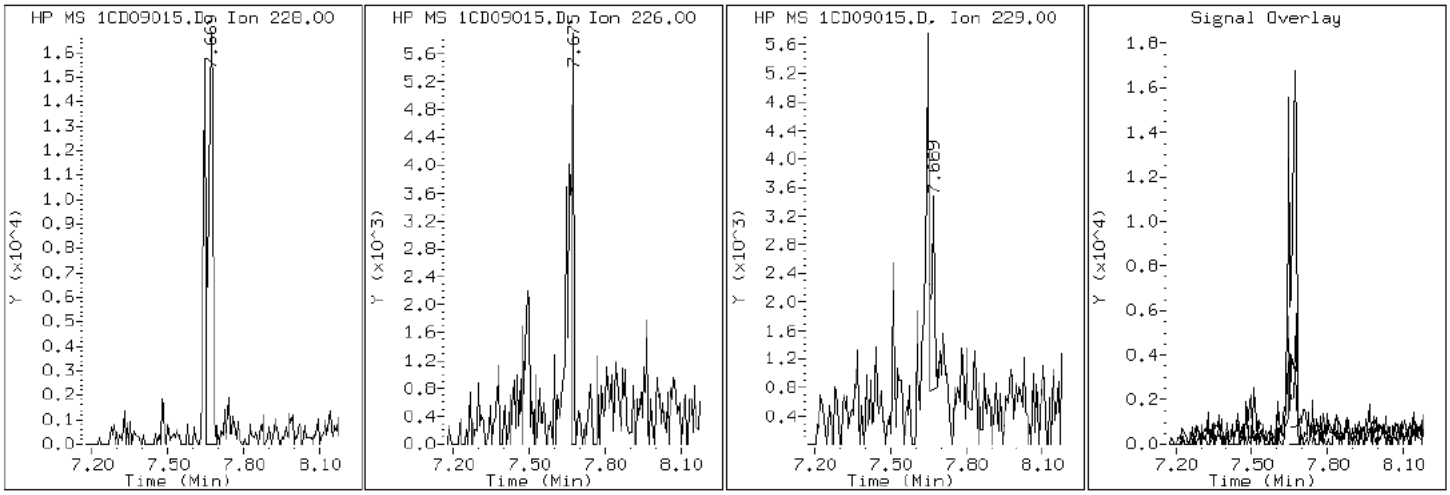
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

19 Chrysene



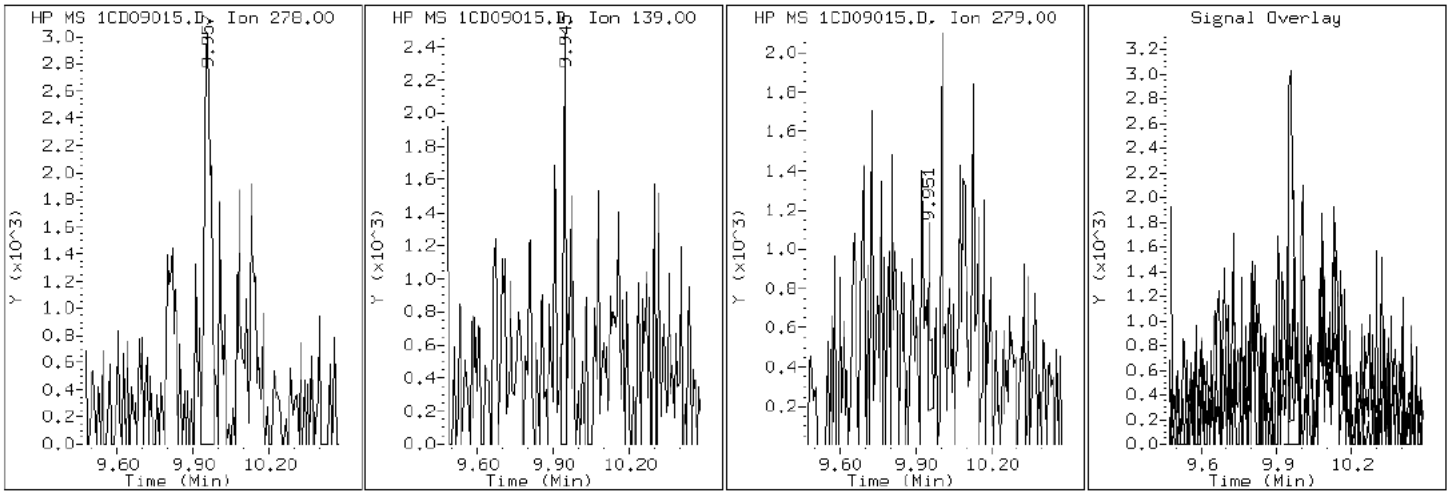
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

25 Dibenzo(a,h)anthracene



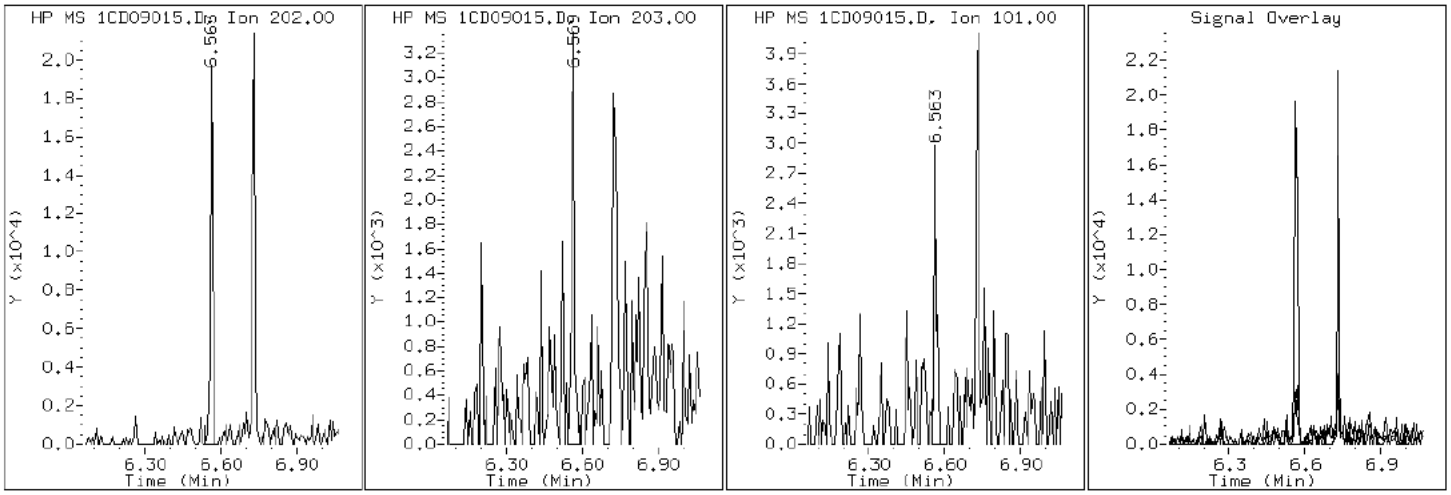
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

15 Fluoranthene



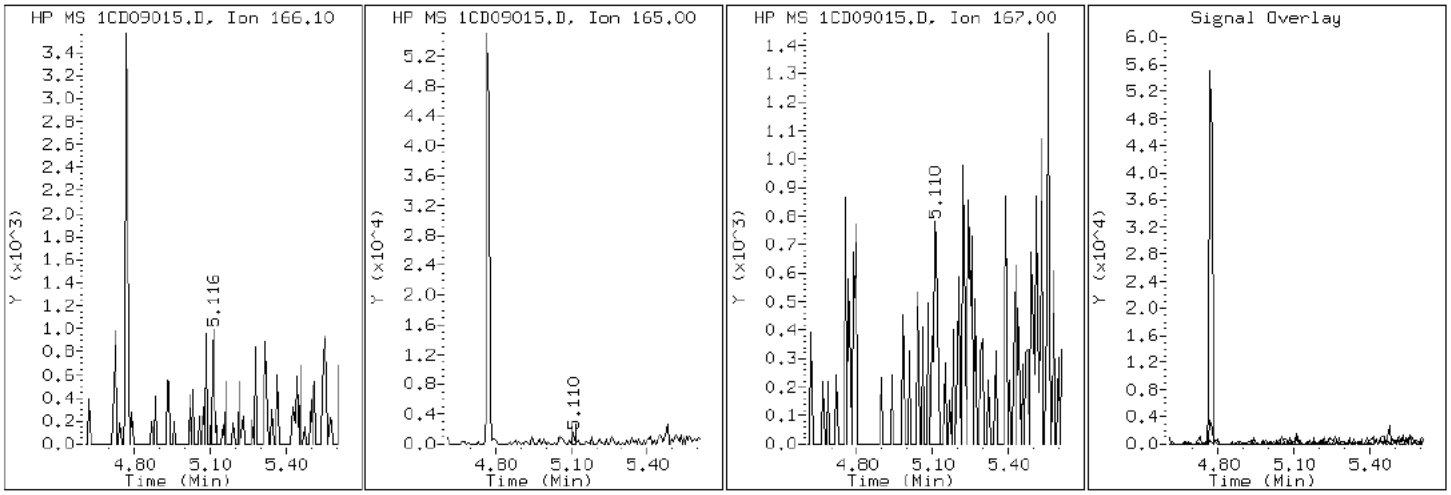
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

9 Fluorene



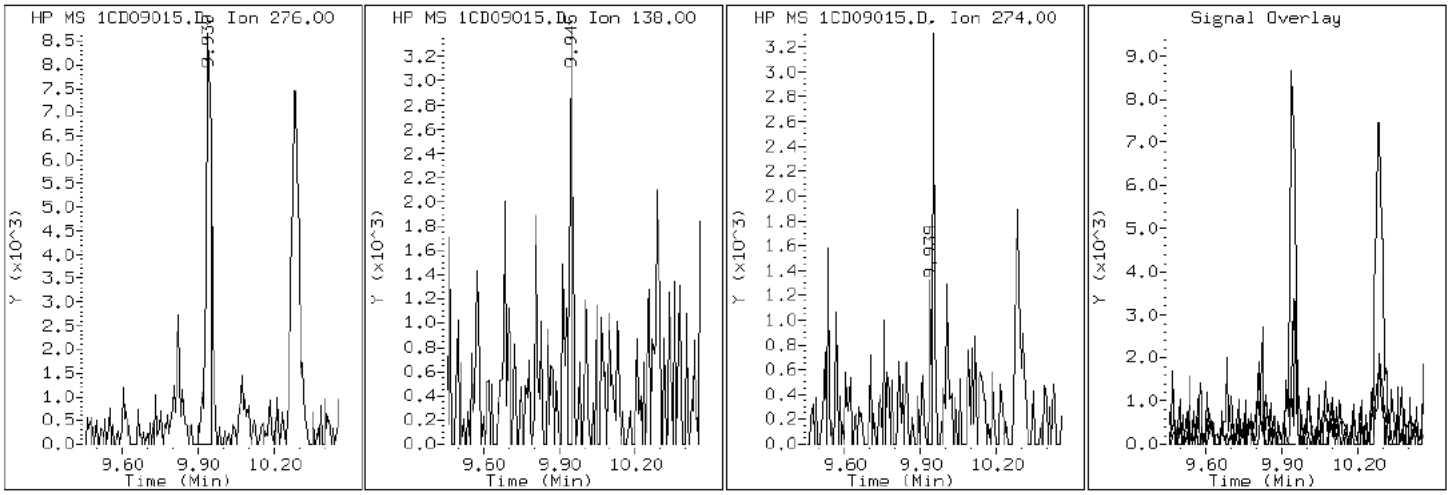
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

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



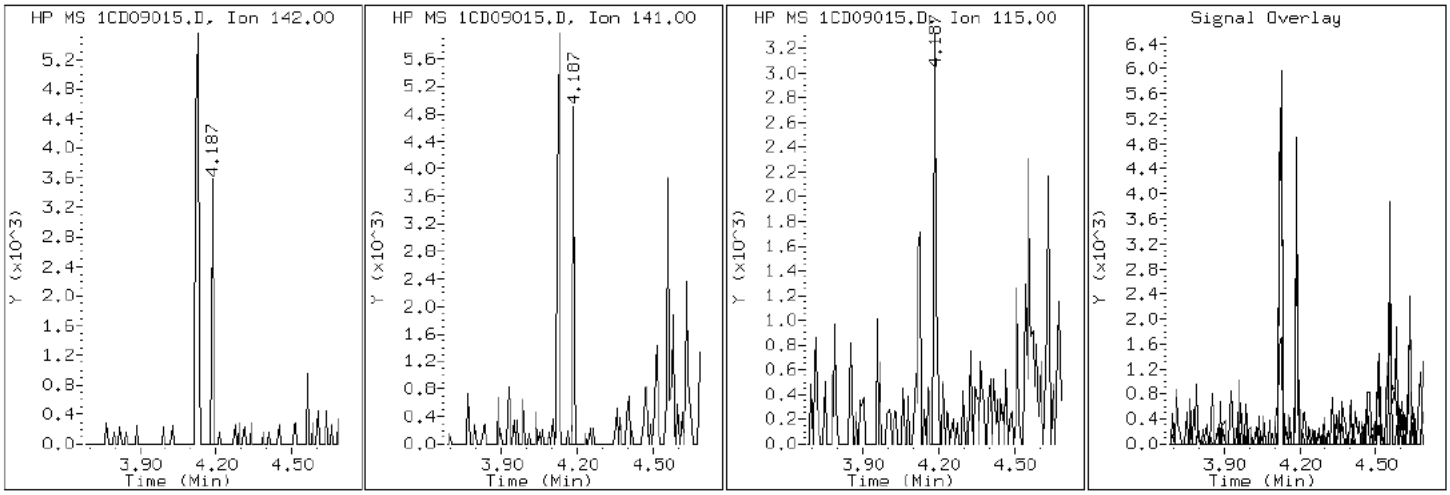
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

4 1-Methylnaphthalene



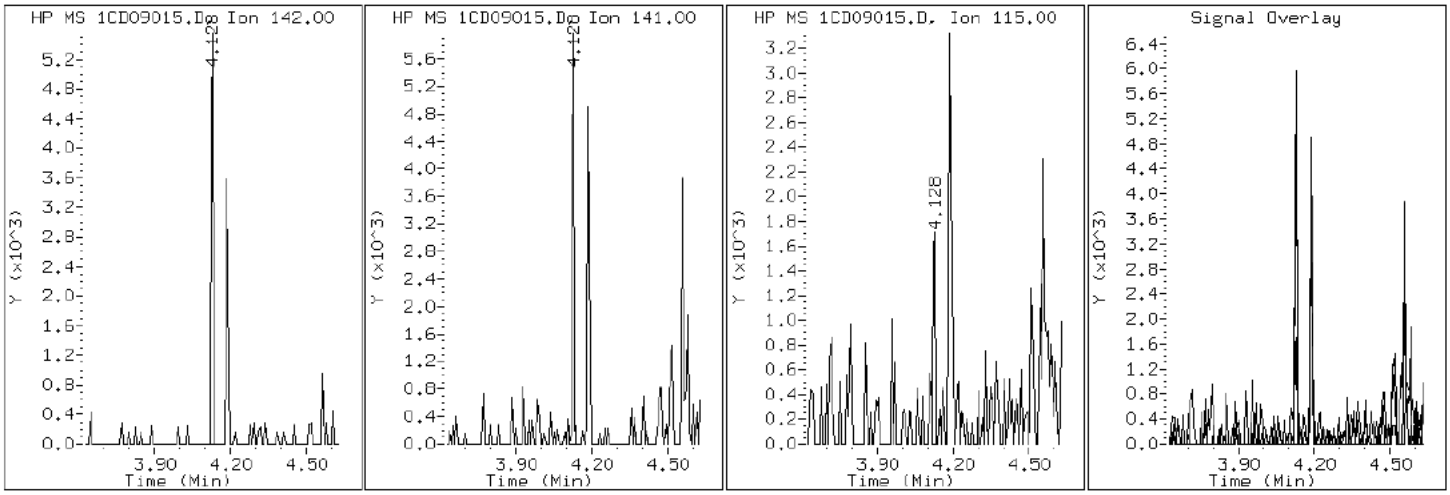
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

3 2-Methylnaphthalene



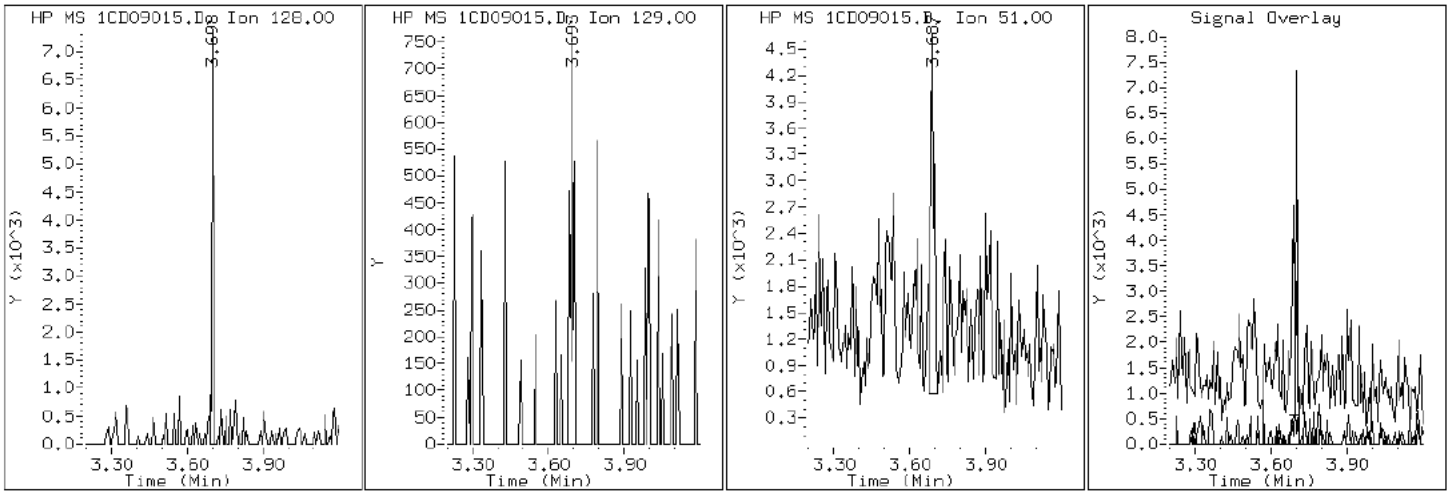
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

2 Naphthalene



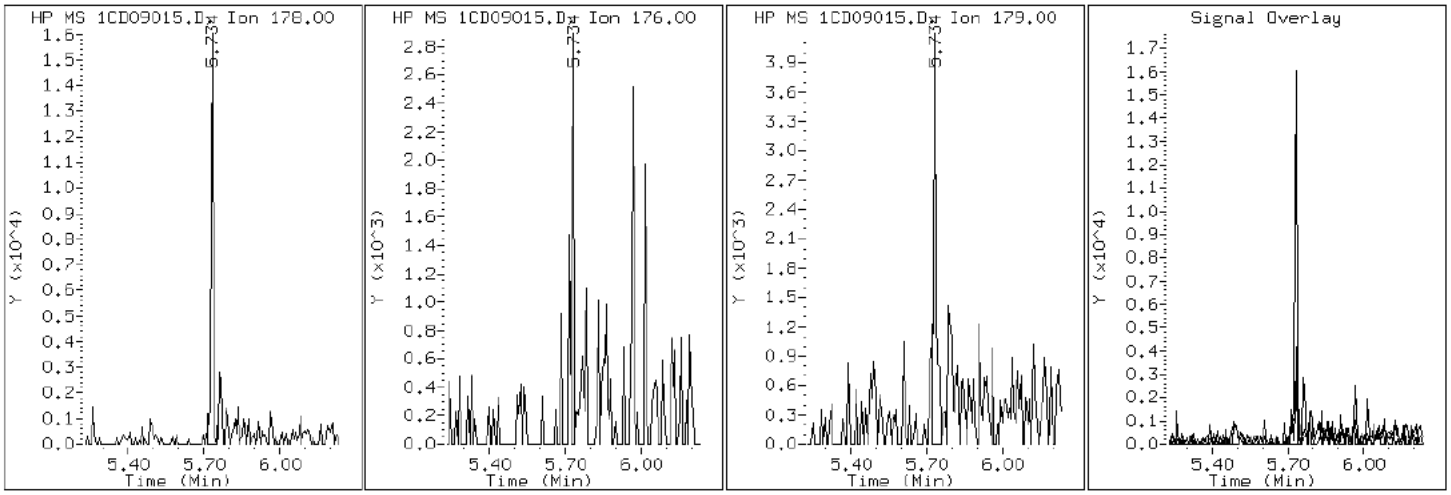
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

11 Phenanthrene



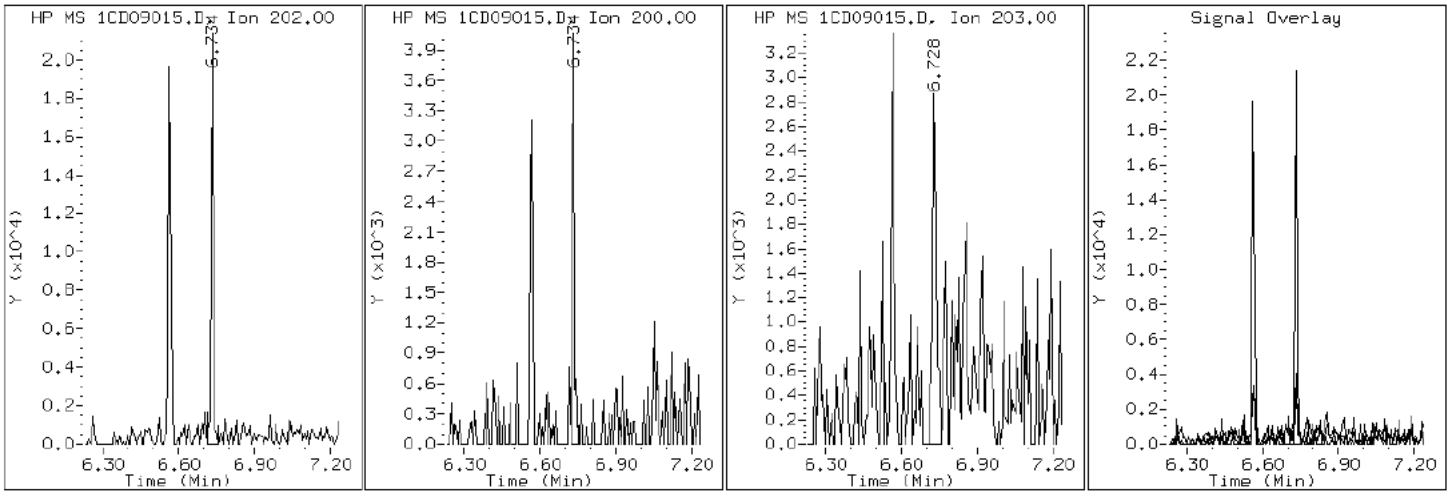
Data File: 1CD09015.D

Date: 09-APR-2013 15:31

Client ID: CV1047A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-35-b Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09015.D
Inj. Date and Time: 09-APR-2013 15:31
Instrument ID: BSMC5973.i
Client ID: CV1047A-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/10/2013

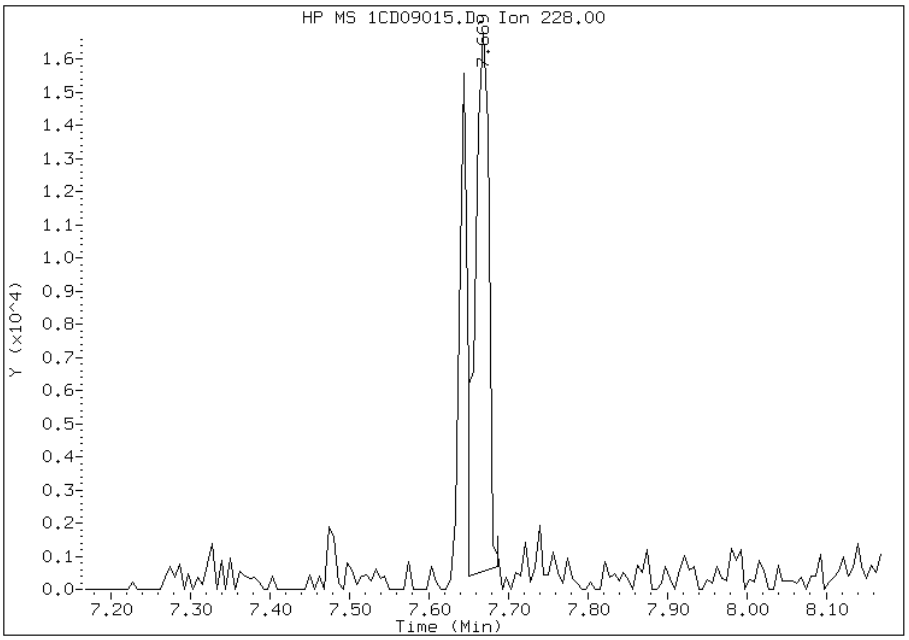
Processing Integration Results

RT: 7.67

Response: 19831

Amount: 1

Conc: 373



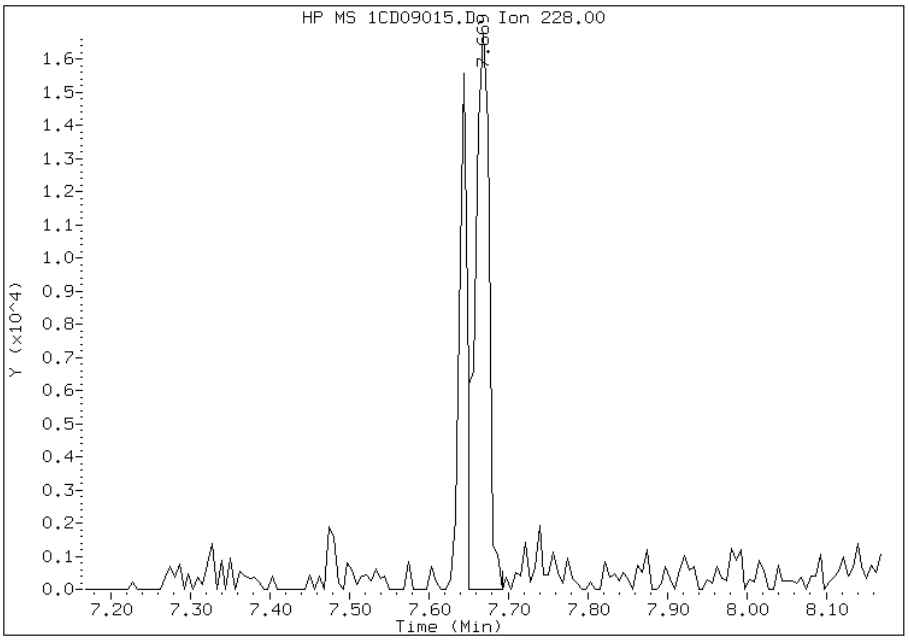
Manual Integration Results

RT: 7.67

Response: 21170

Amount: 1

Conc: 398



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:39
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD09015.D
Inj. Date and Time: 09-APR-2013 15:31
Instrument ID: BSMC5973.i
Client ID: CV1047A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

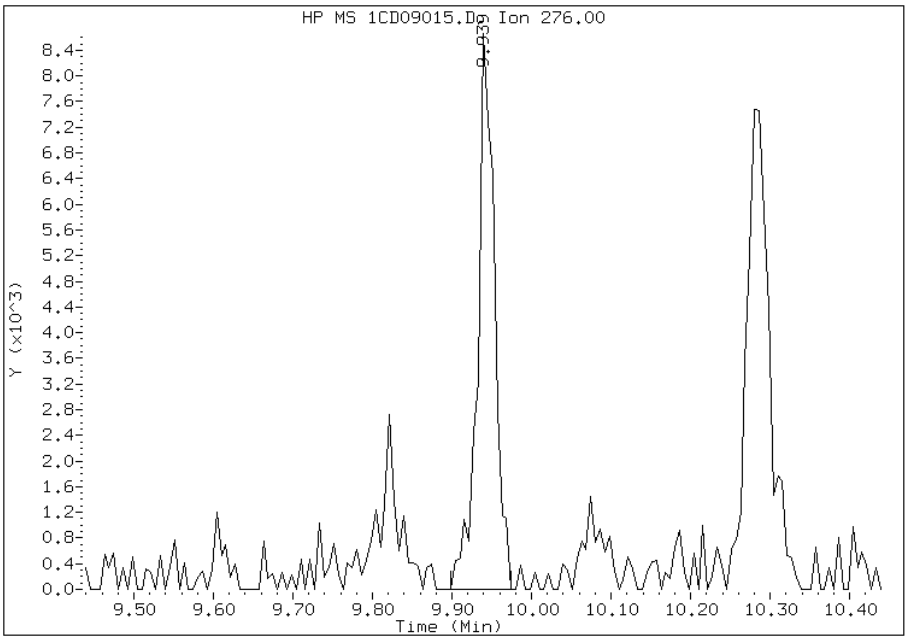
Processing Integration Results

RT: 9.94

Response: 12682

Amount: 1

Conc: 283



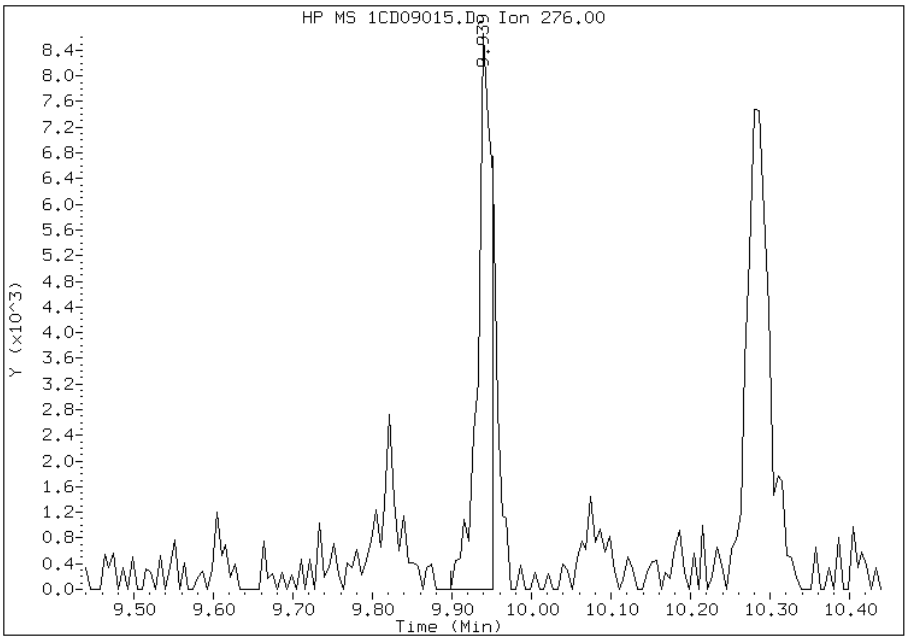
Manual Integration Results

RT: 9.94

Response: 10897

Amount: 1

Conc: 243



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1047B-CS | Lab Sample ID: 680-88811-36

Matrix: Solid | Lab File ID: 1CD08027.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:59

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.23(g) | Date Analyzed: 04/08/2013 20:28

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

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

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	26	J	50	6.3
120-12-7	Anthracene	31		11	5.3
56-55-3	Benzo[a]anthracene	280		10	4.9
50-32-8	Benzo[a]pyrene	260		13	6.5
205-99-2	Benzo[b]fluoranthene	490		15	7.7
191-24-2	Benzo[g,h,i]perylene	220		25	5.5
207-08-9	Benzo[k]fluoranthene	230		10	4.5
218-01-9	Chrysene	340		11	5.7
53-70-3	Dibenz(a,h)anthracene	87		25	5.1
206-44-0	Fluoranthene	290		25	5.0
86-73-7	Fluorene	19	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	190		25	8.9
90-12-0	1-Methylnaphthalene	110		50	5.5
91-57-6	2-Methylnaphthalene	140		50	8.9
91-20-3	Naphthalene	100		50	5.5
85-01-8	Phenanthrene	190		10	4.9
129-00-0	Pyrene	310		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08027.D
Lab Smp Id: 680-88811-A-36-A Client Smp ID: CV1047B-CS
Inj Date : 08-APR-2013 20:28
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-36-A
Misc Info : 680-88811-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	21.586	% 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	3.692	3.692	(1.000)	459457	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	329076	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	602597	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	64501	7.28314	609.8520
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	611780	40.0000	
*	23 Perylene-d12	264	8.827	8.821	(1.000)	591227	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	14792	1.25345	104.9571
	3 2-Methylnaphthalene	142	4.133	4.127	(1.119)	13196	1.64269	137.5502
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	9161	1.26738	106.1239
	5 Acenaphthylene	152	4.692	4.686	(0.983)	4290	0.31499	26.3752
	7 Acenaphthene	154	4.798	4.798	(1.005)	2122	0.25155	21.0637(a)
	9 Fluorene	166	5.121	5.115	(1.073)	2487	0.22116	18.5184(Q)
	11 Phenanthrene	178	5.739	5.739	(1.003)	39776	2.26638	189.7751
	12 Anthracene	178	5.774	5.768	(1.009)	6545	0.36788	30.8046

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	5501	0.36090	30.2201
15 Fluoranthene	202	6.568	6.568	(1.148)	67125	3.46322	289.9922
16 Pyrene	202	6.739	6.739	(0.880)	63258	3.73275	312.5606
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	56047	3.29743	276.1097
19 Chrysene	228	7.680	7.674	(1.003)	70651	4.05270	339.3522
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	97927	5.85881	490.5861(M)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.963)	45045	2.78642	233.3200(M)
22 Benzo(a)pyrene	252	8.774	8.768	(0.994)	48713	3.09558	259.2078
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	34445	2.30455	192.9712(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.968	(1.130)	14405	1.04331	87.3611
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	40315	2.64279	221.2937

QC Flag Legend

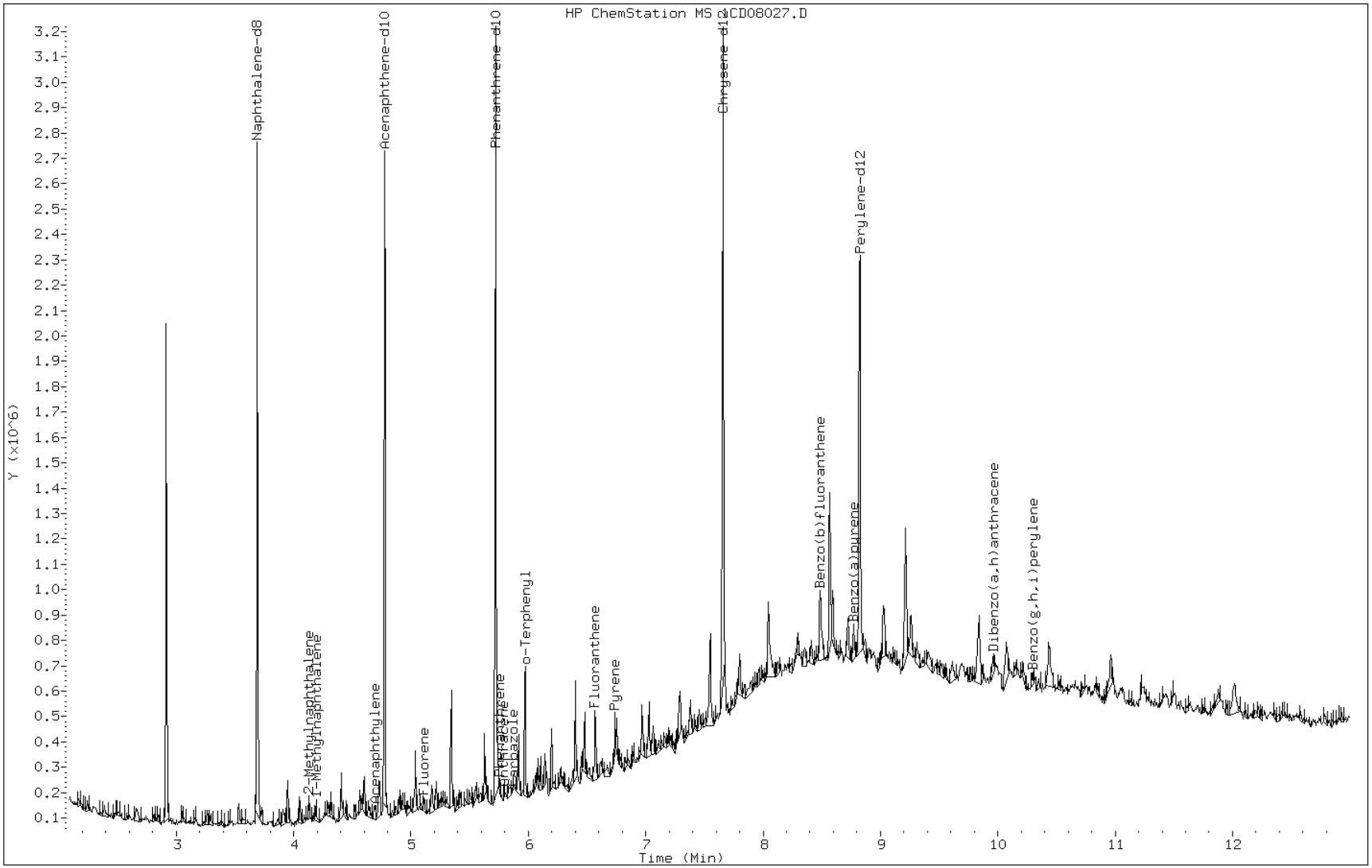
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP



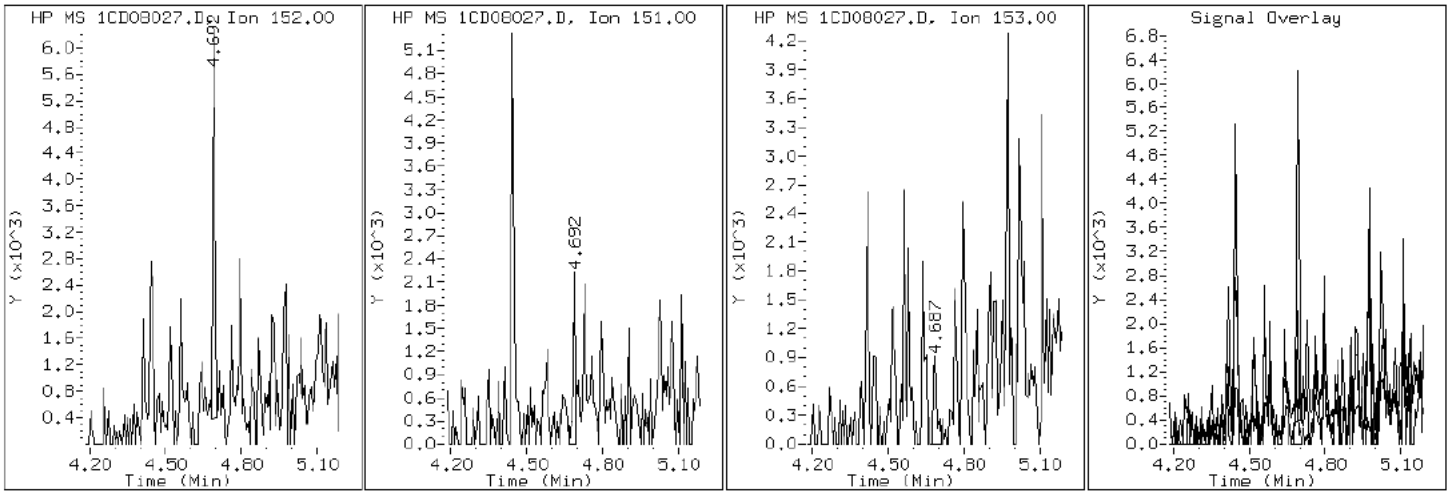
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

5 Acenaphthylene



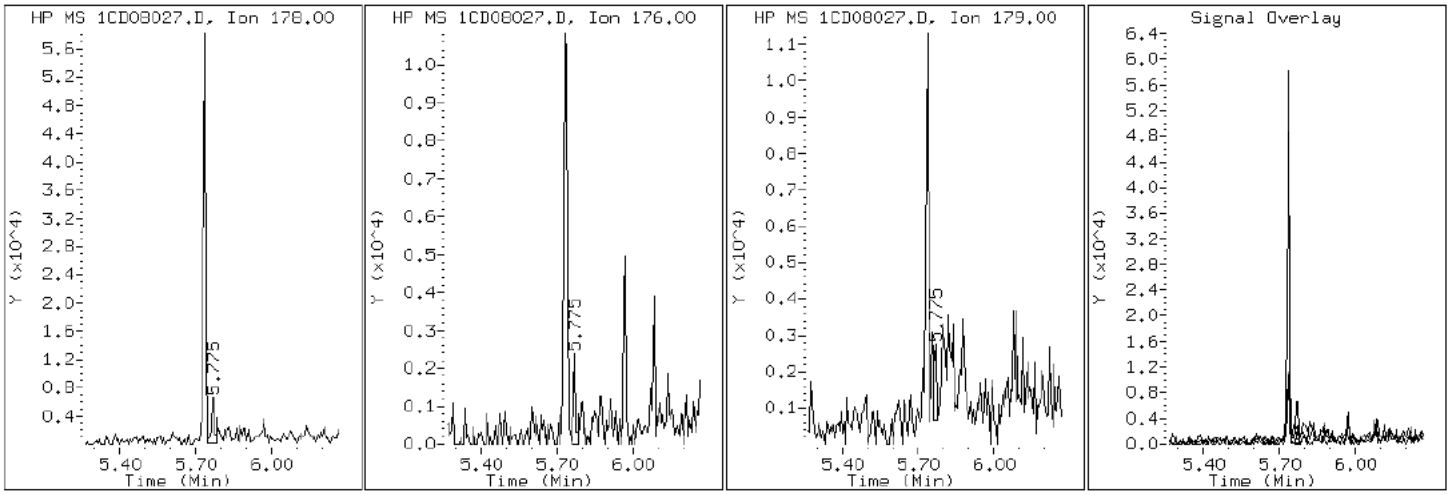
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

12 Anthracene



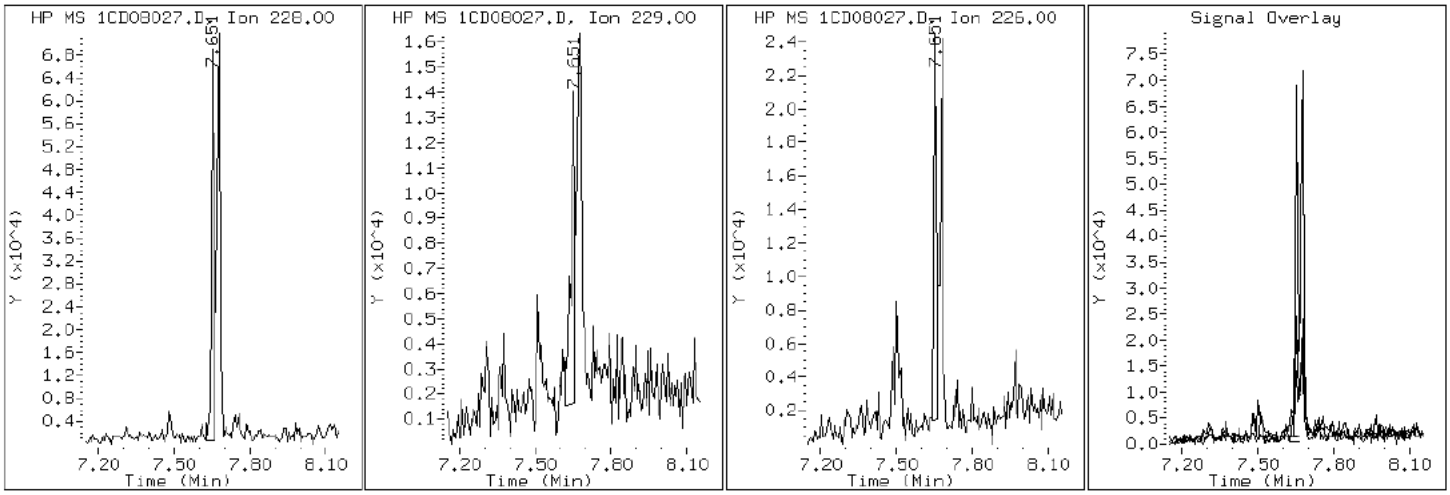
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

17 Benzo(a)anthracene



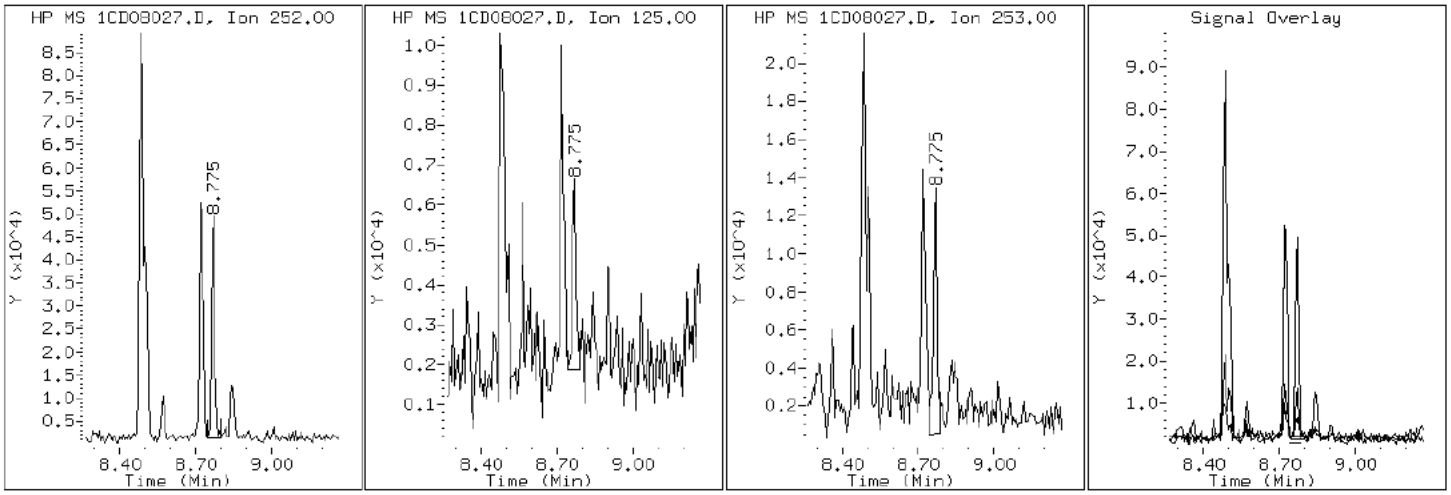
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

22 Benzo(a)pyrene



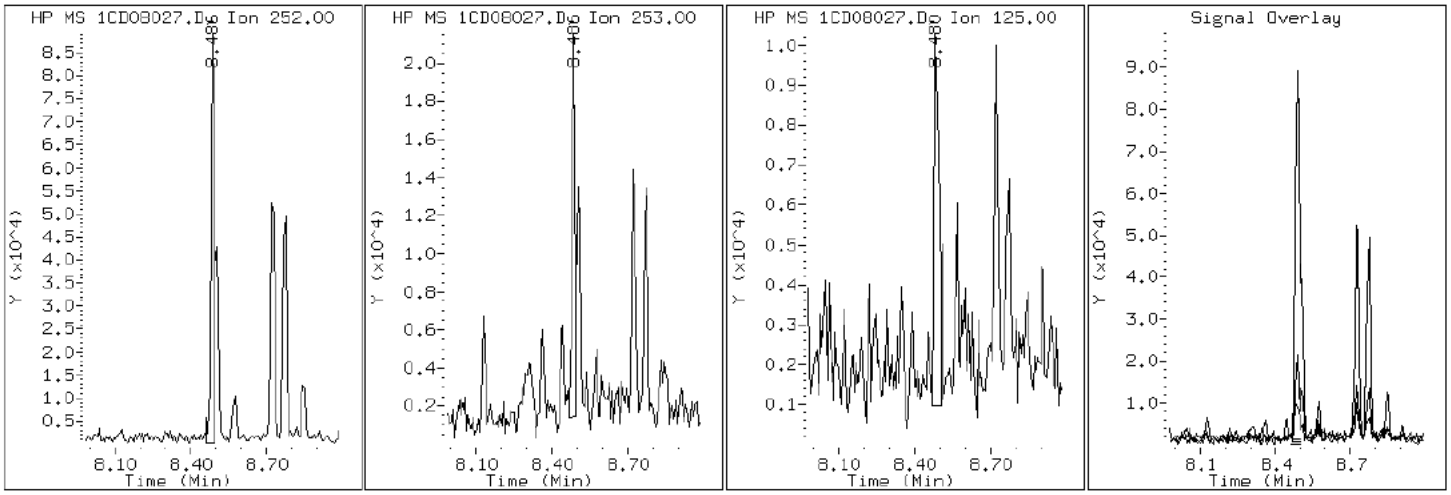
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

20 Benzo(b)fluoranthene



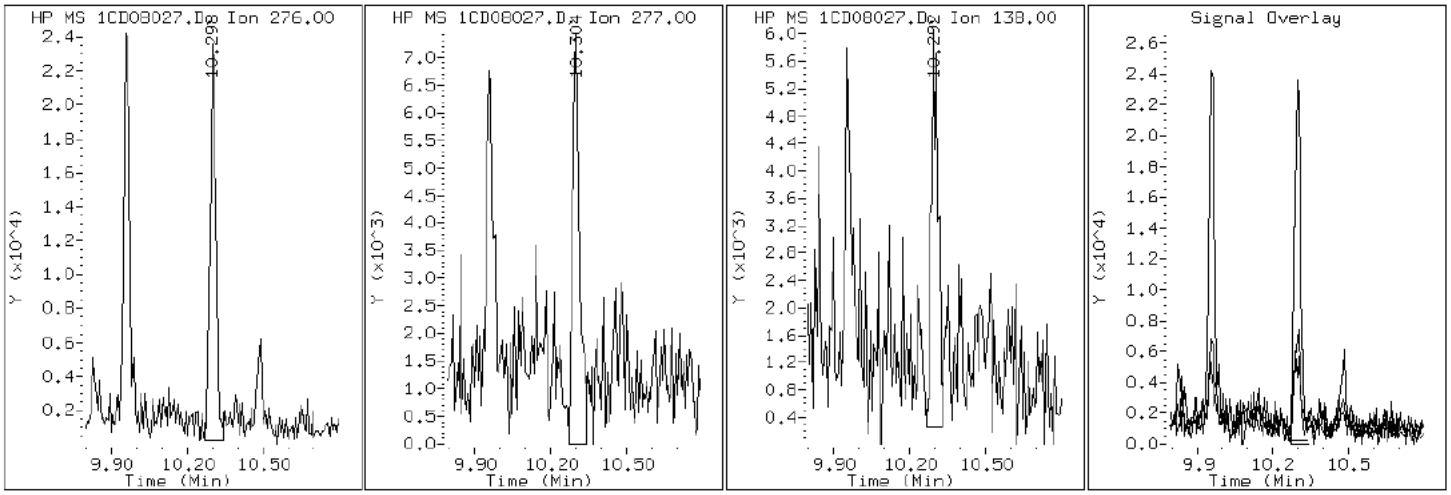
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

26 Benzo(g,h,i)perylene



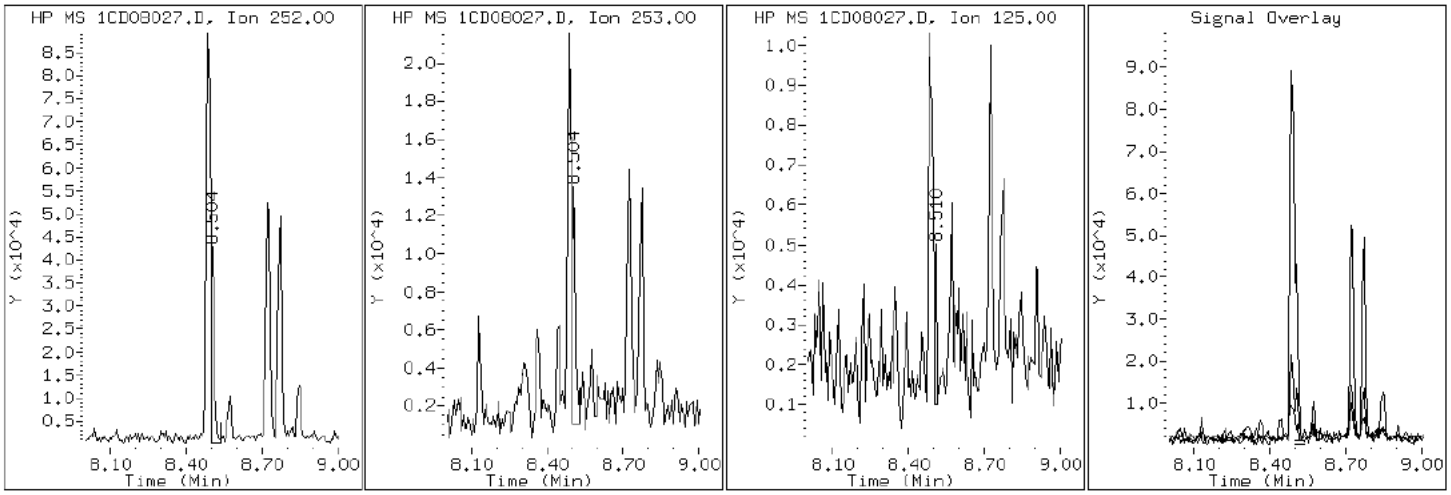
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

21 Benzo(k)fluoranthene



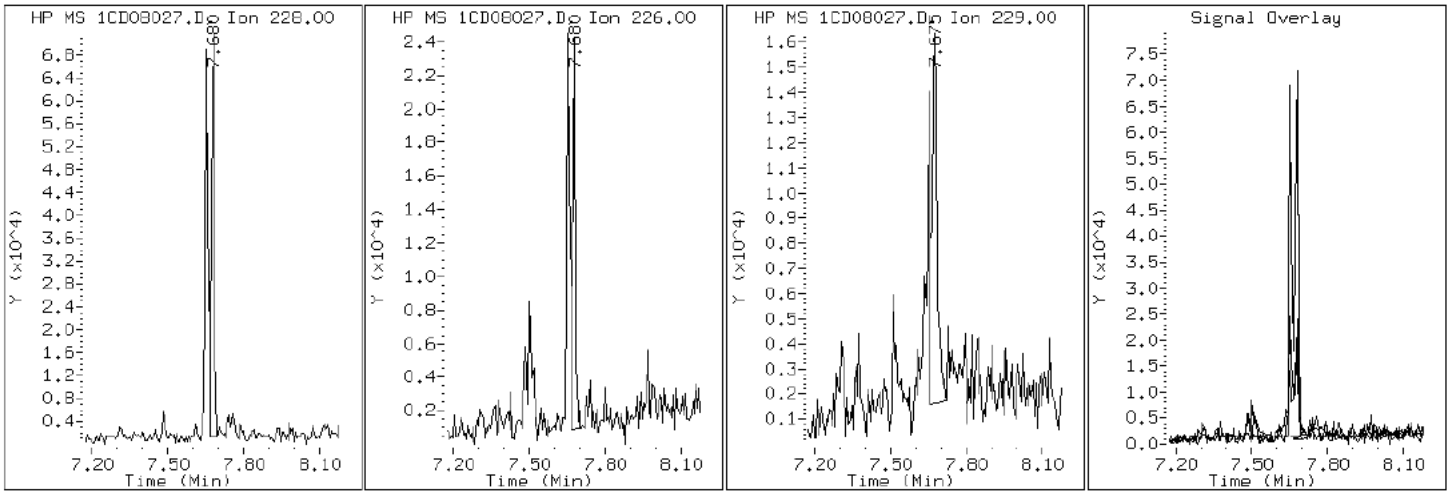
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

19 Chrysene



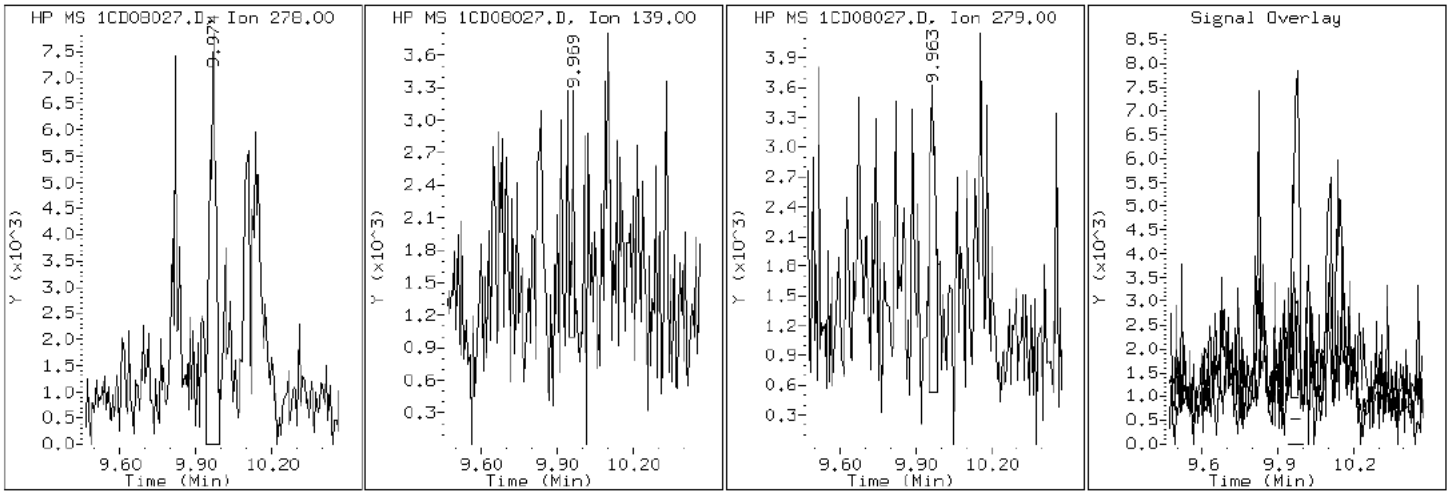
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

25 Dibenzo(a,h)anthracene



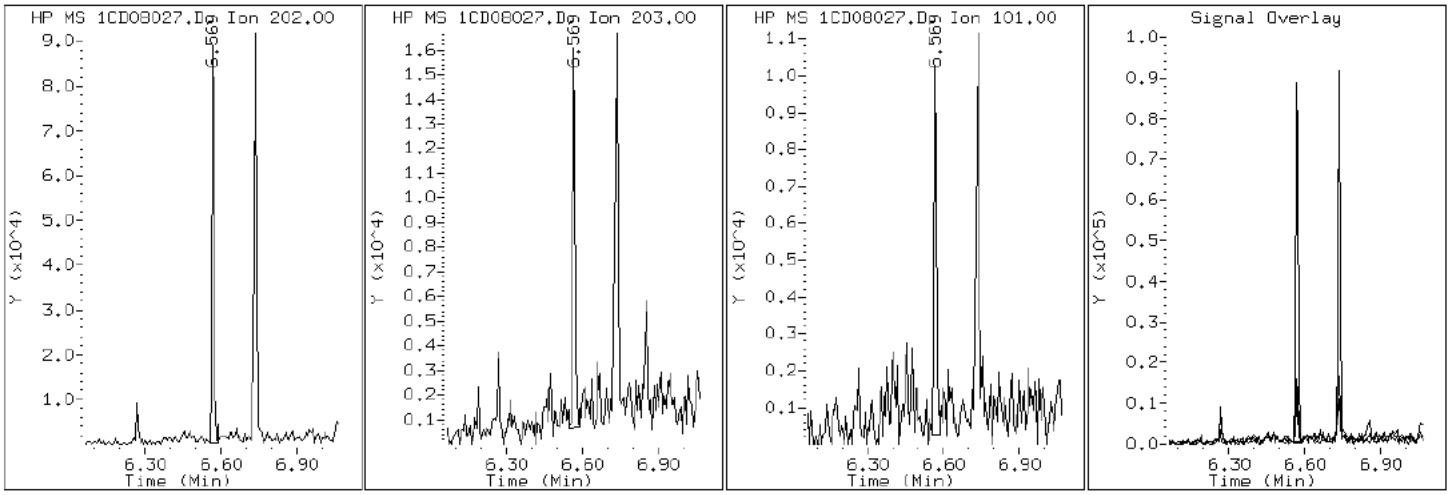
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

15 Fluoranthene



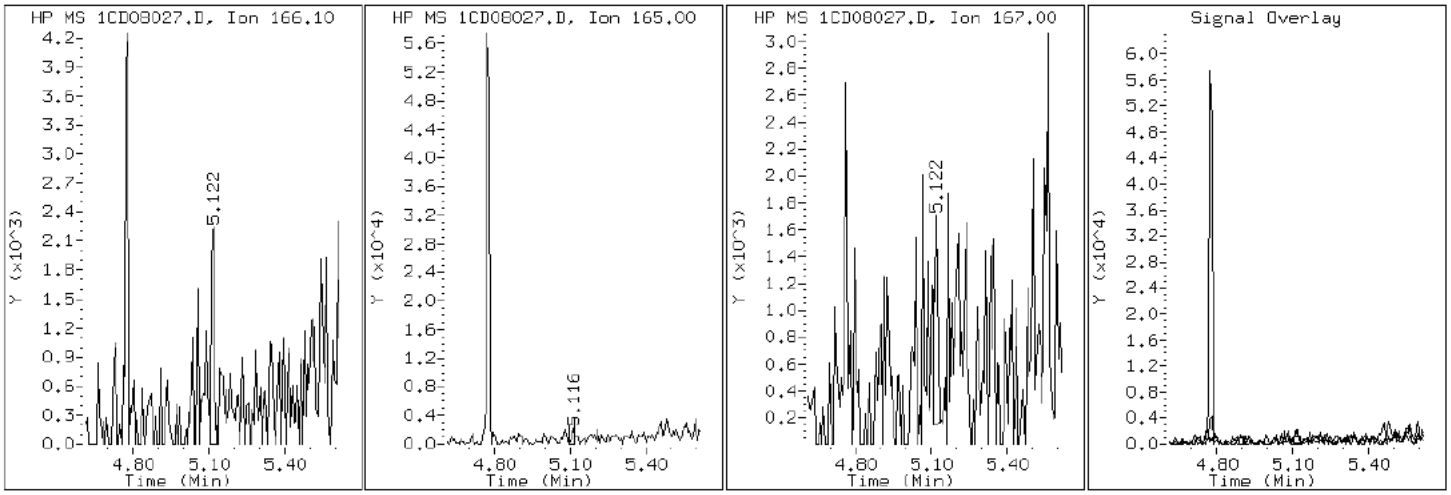
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

9 Fluorene



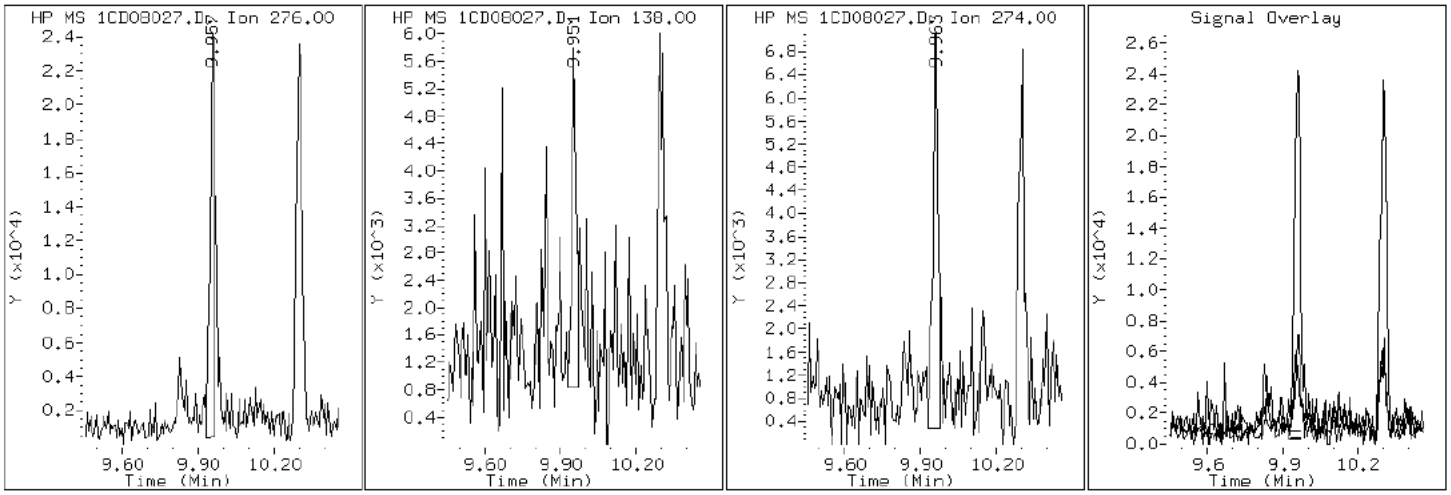
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

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



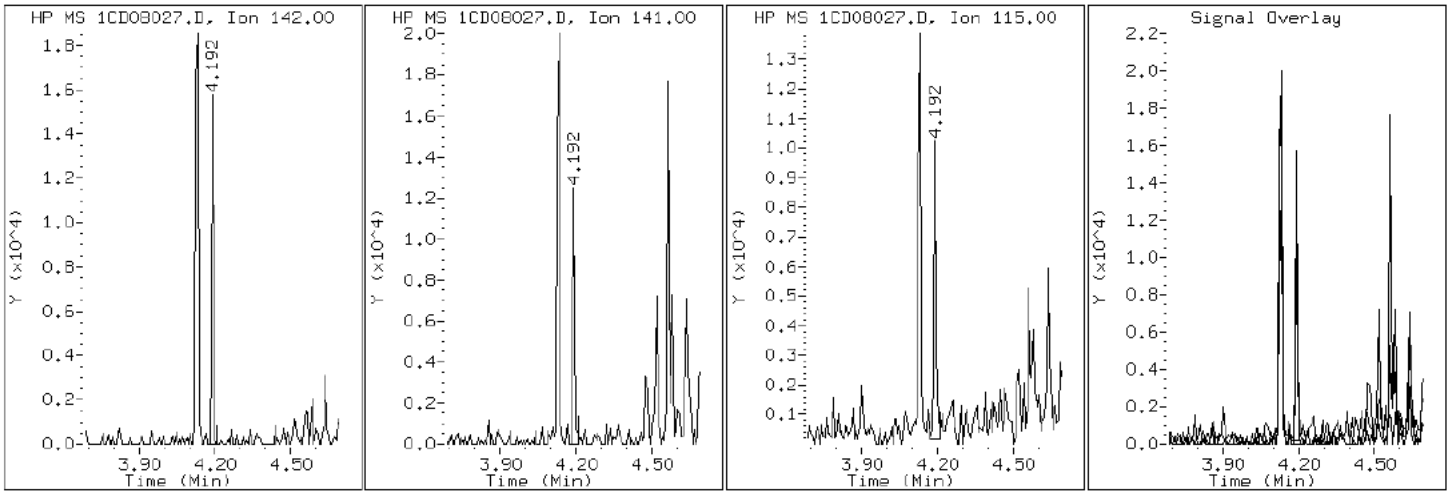
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

4 1-Methylnaphthalene



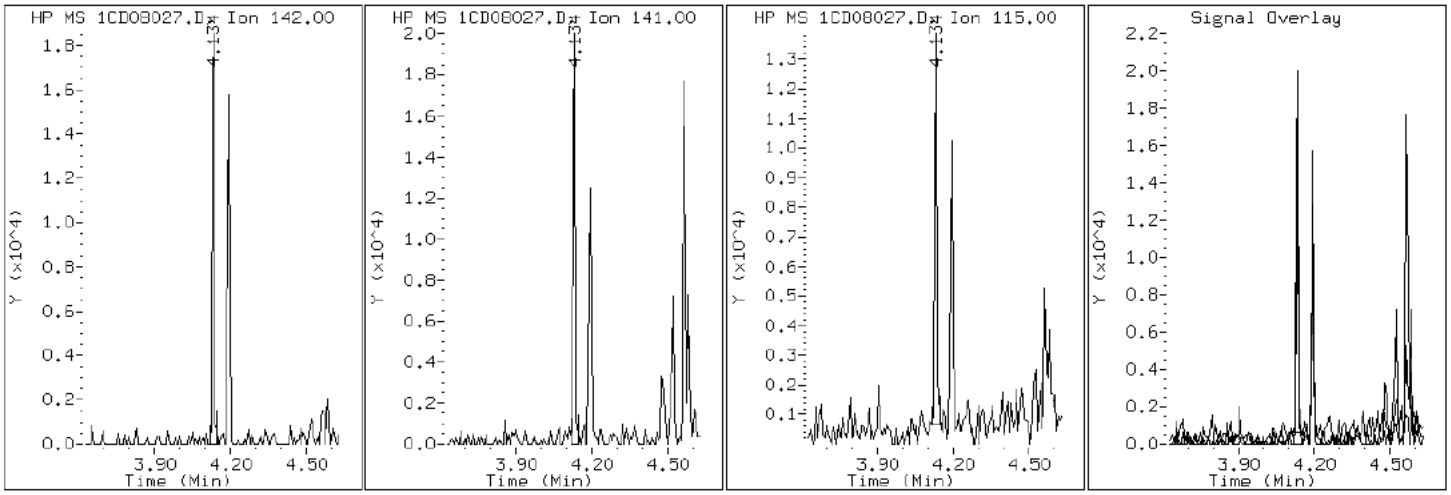
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

3 2-Methylnaphthalene



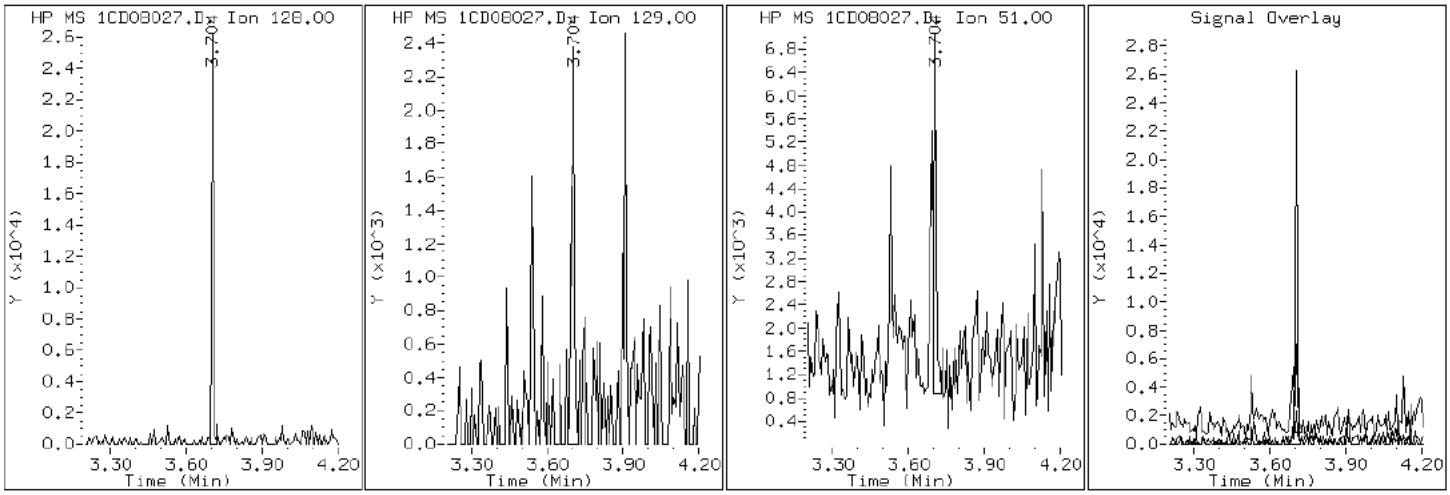
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

2 Naphthalene



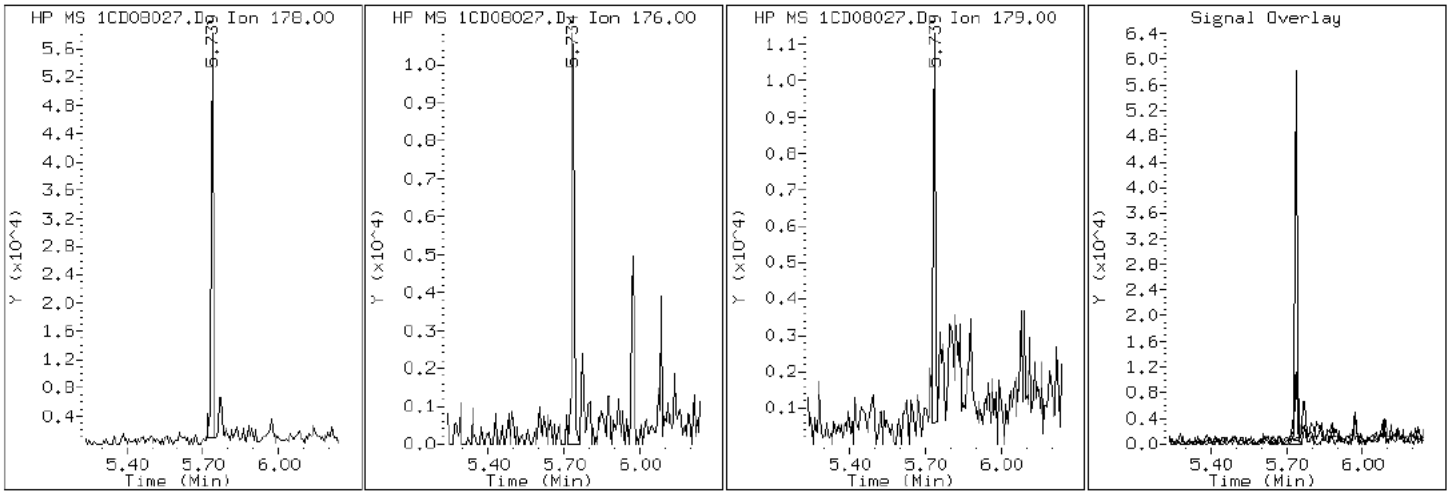
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

11 Phenanthrene



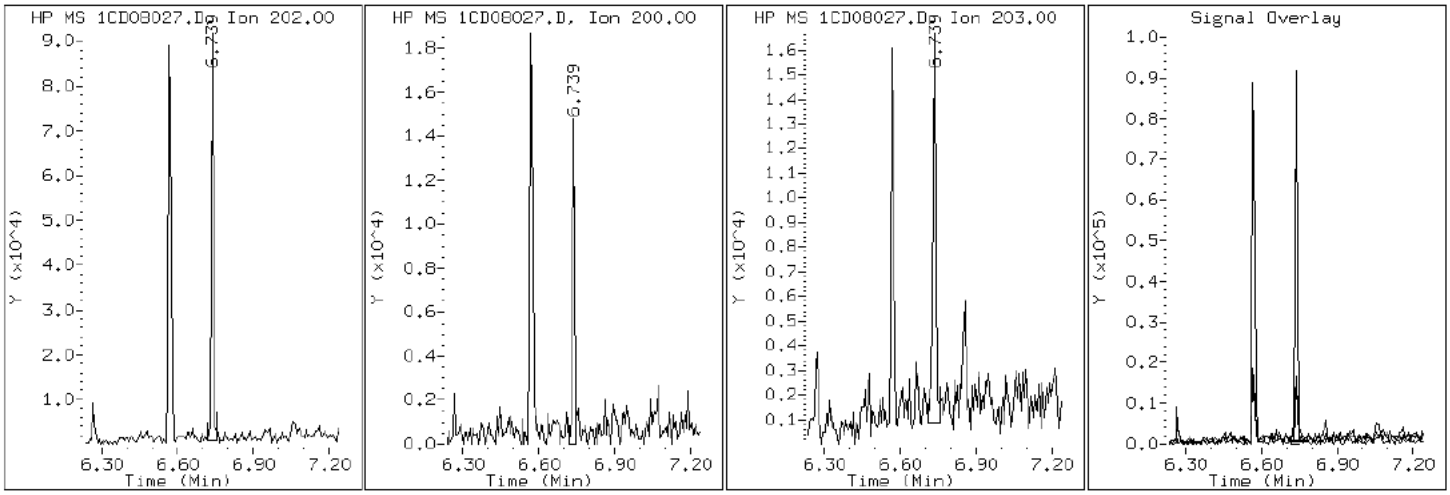
Data File: 1CD08027.D

Date: 08-APR-2013 20:28

Client ID: CV1047B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-A-36-A Operator: TP

16 Pyrene



Manual Integration Report

Data File: 1CD08027.D
Inj. Date and Time: 08-APR-2013 20:28
Instrument ID: BSMC5973.i
Client ID: CV1047B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

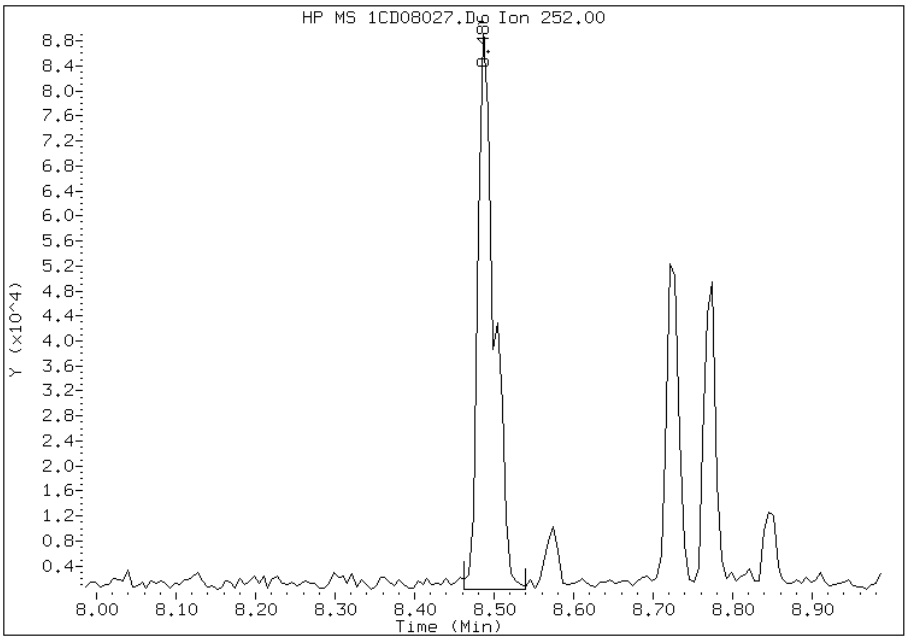
Processing Integration Results

RT: 8.49

Response: 129026

Amount: 8

Conc: 646



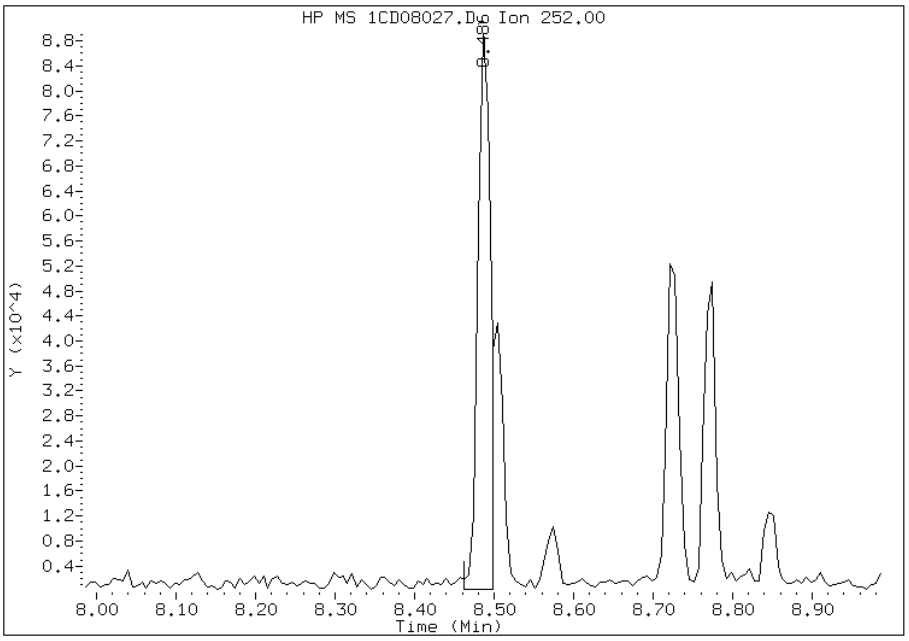
Manual Integration Results

RT: 8.49

Response: 97927

Amount: 6

Conc: 491



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08027.D
Inj. Date and Time: 08-APR-2013 20:28
Instrument ID: BSMC5973.i
Client ID: CV1047B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

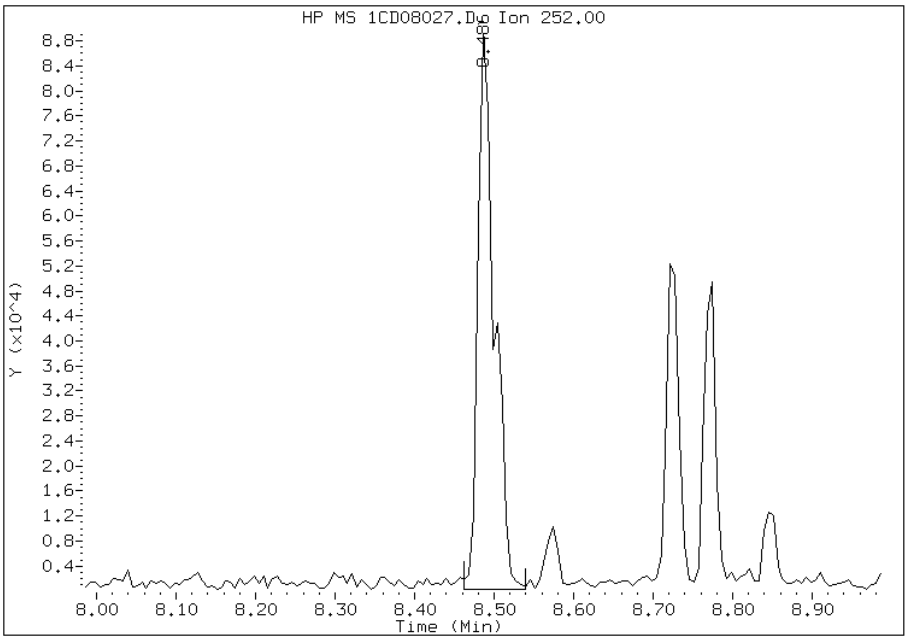
Processing Integration Results

RT: 8.49

Response: 129048

Amount: 8

Conc: 668



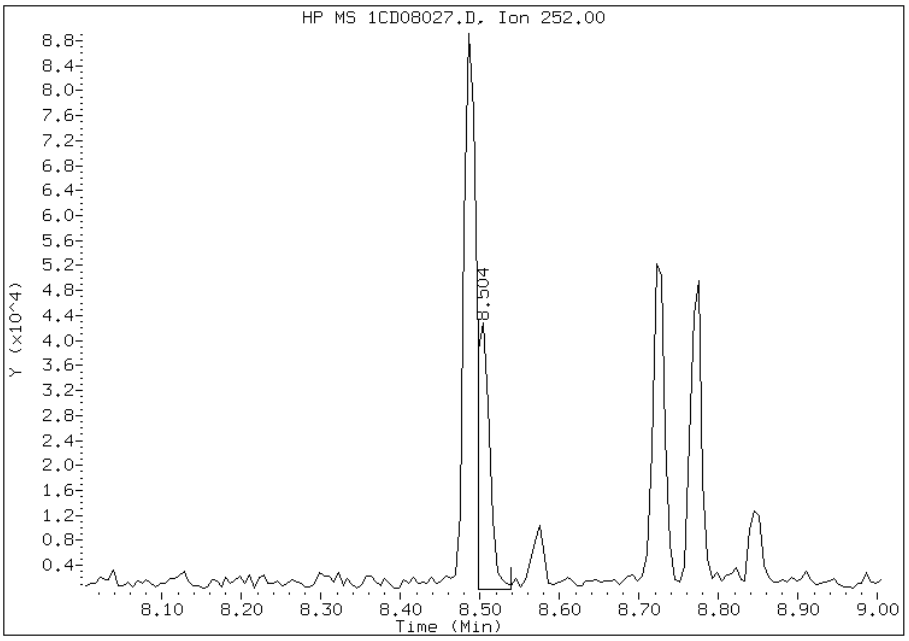
Manual Integration Results

RT: 8.50

Response: 45045

Amount: 3

Conc: 233



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08027.D
Inj. Date and Time: 08-APR-2013 20:28
Instrument ID: BSMC5973.i
Client ID: CV1047B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

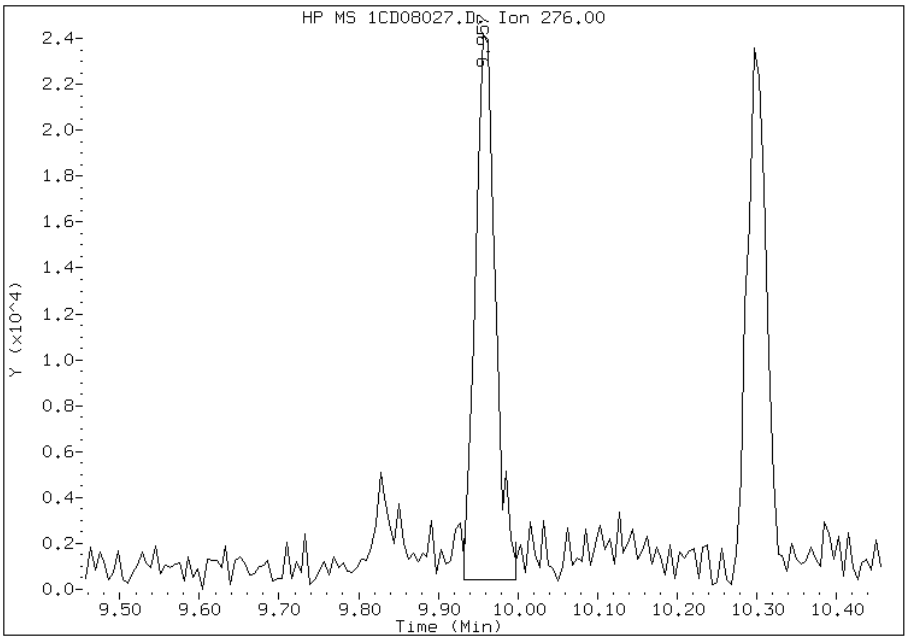
Processing Integration Results

RT: 9.96

Response: 41606

Amount: 3

Conc: 233



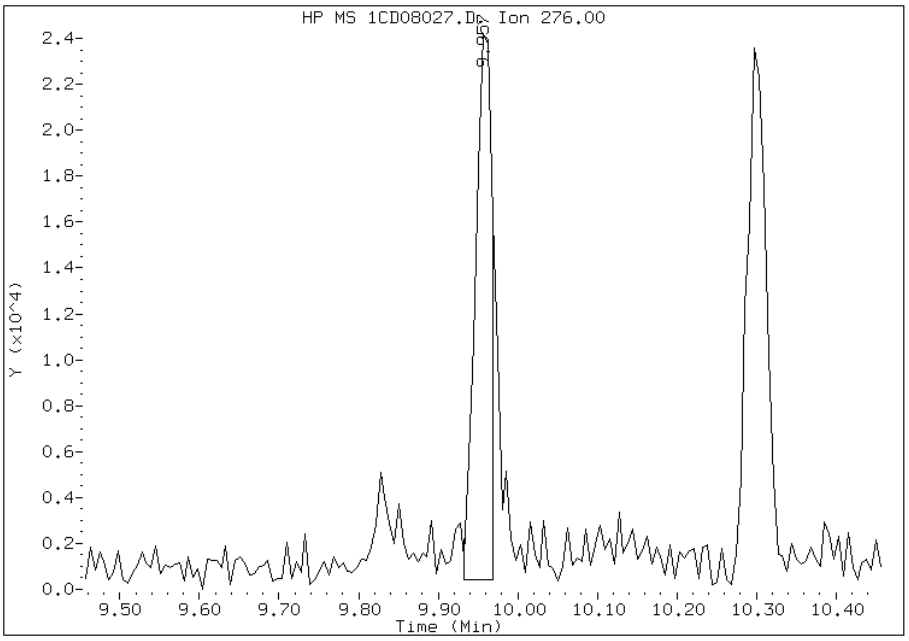
Manual Integration Results

RT: 9.96

Response: 34445

Amount: 2

Conc: 193



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1050A-CS | Lab Sample ID: 680-88811-37

Matrix: Solid | Lab File ID: 1CD09016.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:30

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.19(g) | Date Analyzed: 04/09/2013 15:50

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

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

% Moisture: 13.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31	J	110	23
208-96-8	Acenaphthylene	46	U	46	5.7
120-12-7	Anthracene	85		9.6	4.8
56-55-3	Benzo[a]anthracene	2300		9.2	4.5
207-08-9	Benzo[k]fluoranthene	3300		9.2	4.1
218-01-9	Chrysene	3400		10	5.2
53-70-3	Dibenz(a,h)anthracene	1700		23	4.7
206-44-0	Fluoranthene	1800		23	4.6
86-73-7	Fluorene	34		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	3800		23	8.1
90-12-0	1-Methylnaphthalene	66		46	5.0
91-57-6	2-Methylnaphthalene	76		46	8.1
91-20-3	Naphthalene	70		46	5.0
85-01-8	Phenanthrene	550		9.2	4.5
129-00-0	Pyrene	1900		23	4.2

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09016.D
Lab Smp Id: 680-88811-A-37-A Client Smp ID: CV1050A-CS
Inj Date : 09-APR-2013 15:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-37-a
Misc Info : 680-88811-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	13.922	% 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	3.686	3.686	(1.000)	387674	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	291486	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	560026	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	56608	6.91816	529.1007
*	18 Chrysene-d12	240	7.656	7.657	(1.000)	614276	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	564828	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	9073	0.91119	69.6877(Q)
	3 2-Methylnaphthalene	142	4.121	4.127	(1.118)	6748	0.99556	76.1402
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	5269	0.86392	66.0722
	7 Acenaphthene	154	4.792	4.792	(1.004)	2995	0.40083	30.6554
	9 Fluorene	166	5.110	5.110	(1.070)	4379	0.43962	33.6220
	11 Phenanthrene	178	5.733	5.733	(1.003)	117000	7.17327	548.6114
	12 Anthracene	178	5.762	5.768	(1.008)	18356	1.11019	84.9072
	13 Carbazole	167	5.874	5.874	(1.028)	14372	1.01458	77.5947

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	414244	22.9970	1758.8102
16 Pyrene	202	6.733	6.733	(0.879)	412936	24.2676	1855.9883
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	542050	30.5903	2339.5443
19 Chrysene	228	7.674	7.674	(1.002)	779450	44.5294	3405.6054
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	1645216	103.031	7879.8106(AM)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	672832	43.5657	3331.9011(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	753495	50.1205	3833.2187(A)
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	709809	49.7096	3801.7874(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.974	(1.130)	285555	21.6485	1655.6746
26 Benzo(g,h,i)perylene	276	10.309	10.298	(1.169)	846832	58.1075	4444.0588(A)

QC Flag Legend

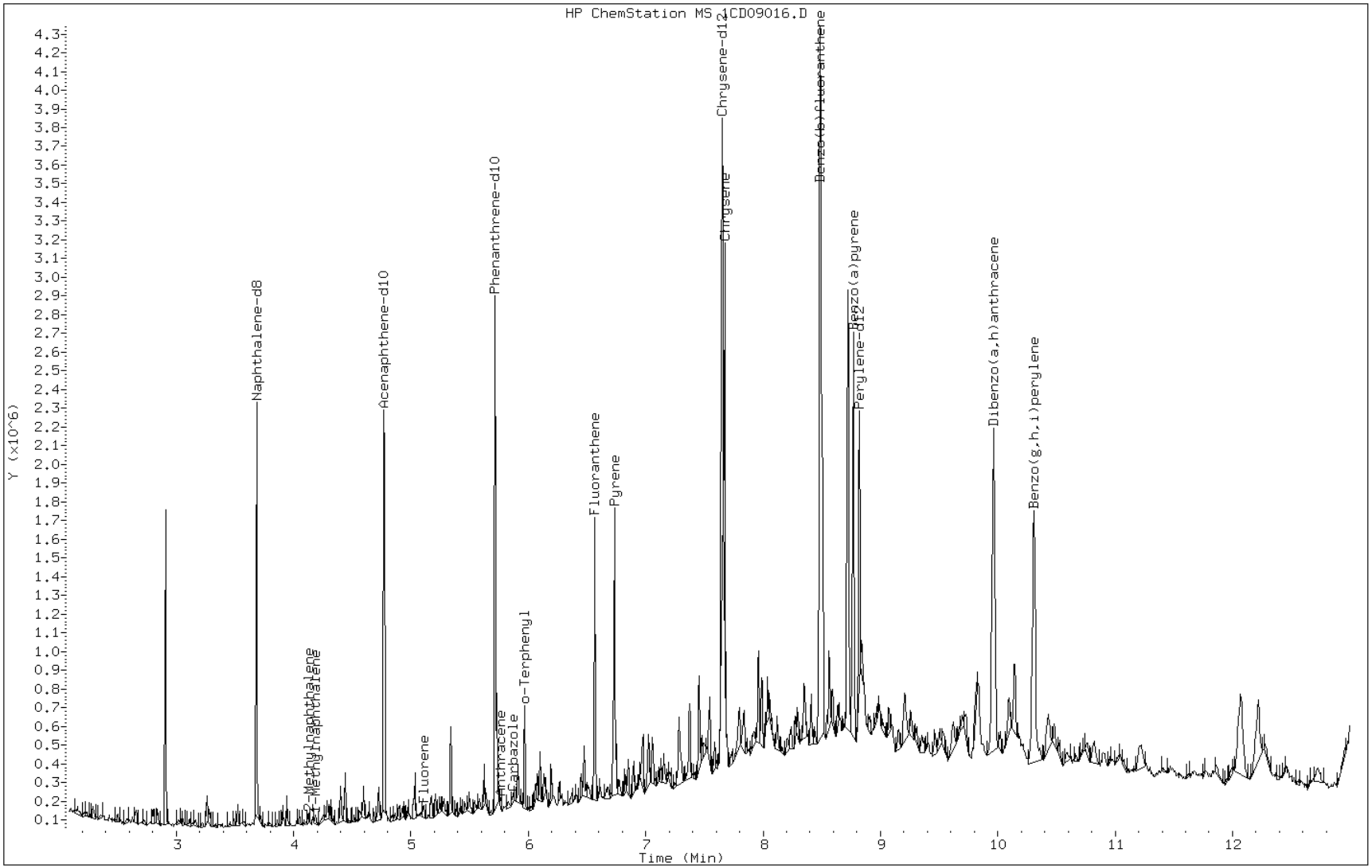
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC



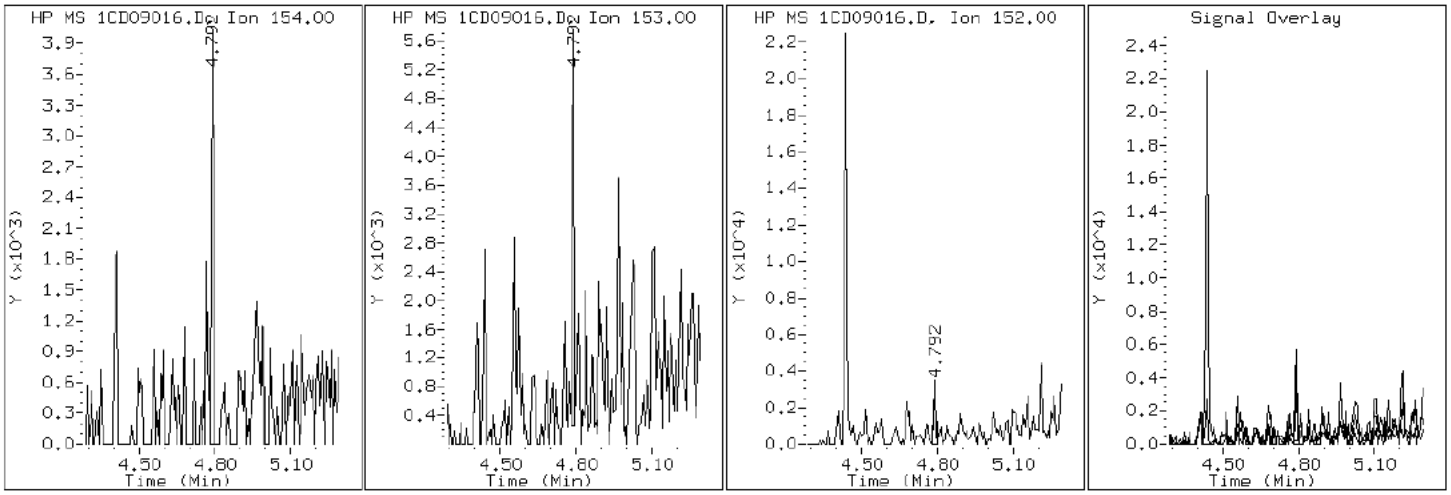
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

7 Acenaphthene



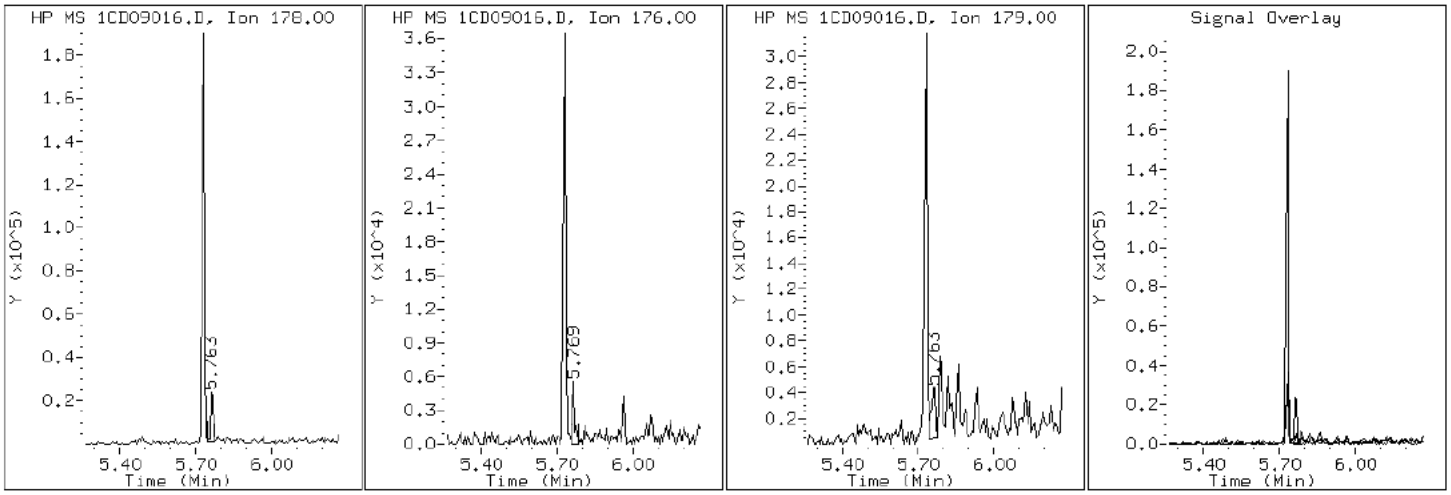
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

12 Anthracene



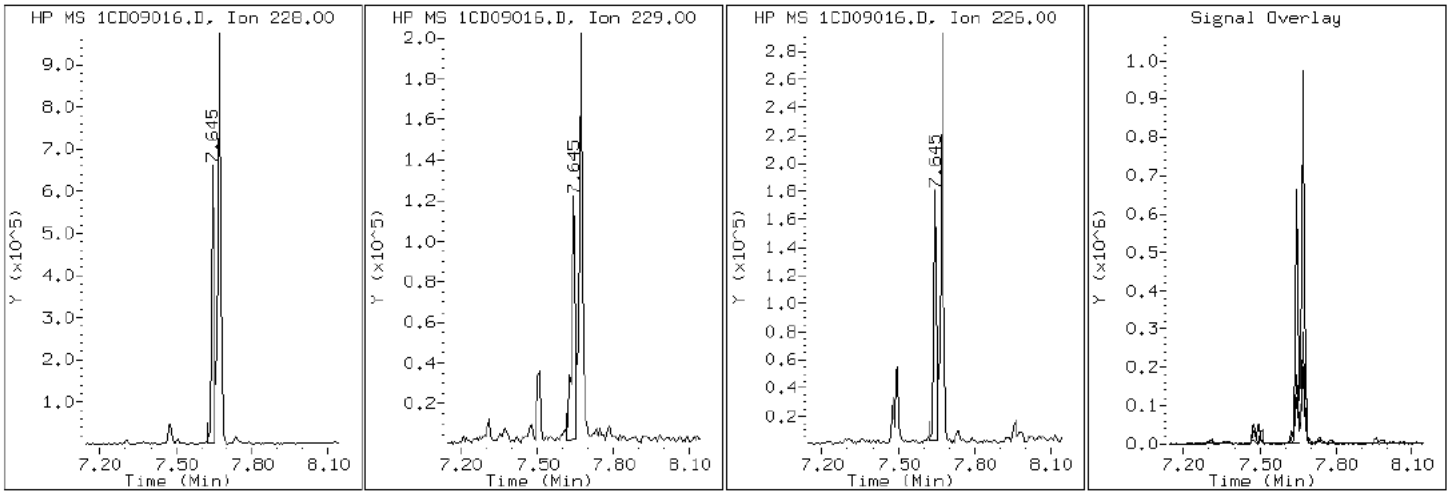
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

17 Benzo(a)anthracene



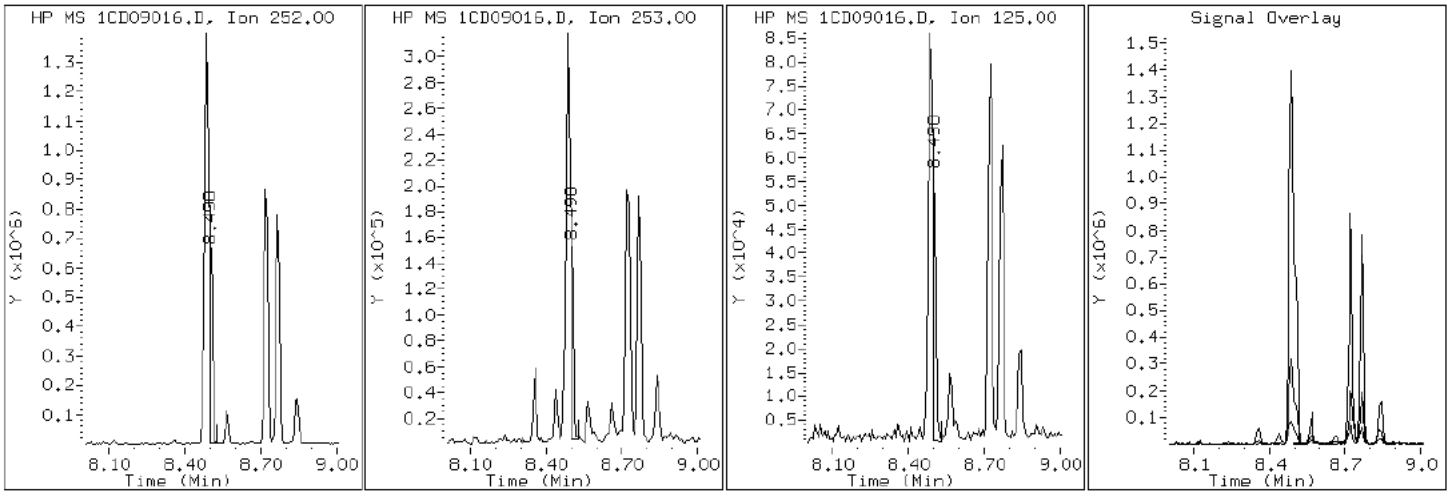
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



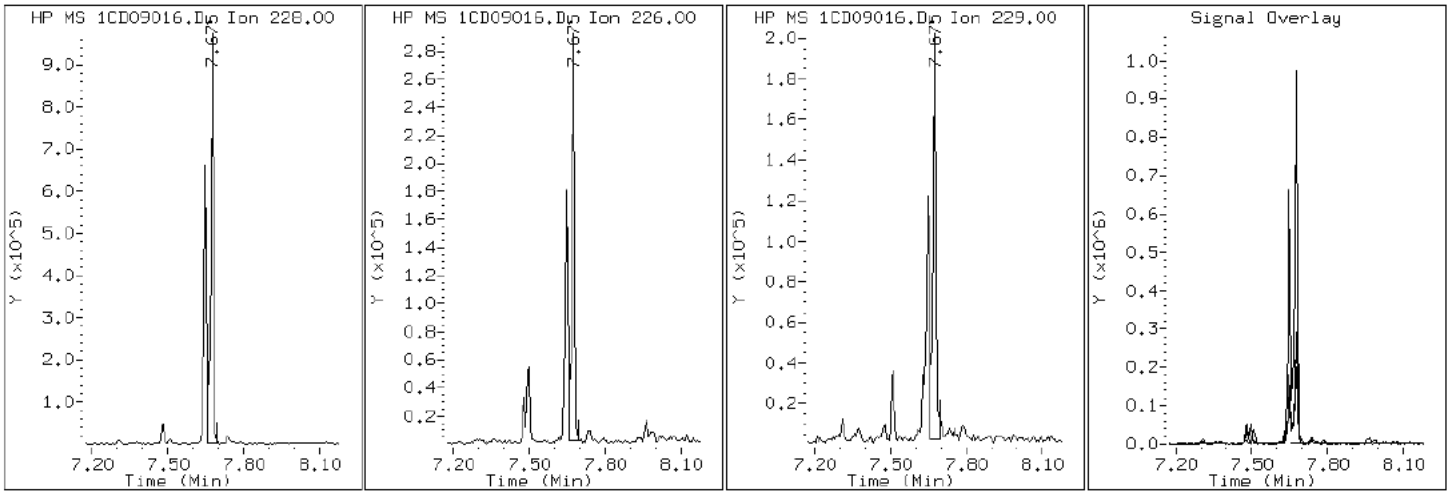
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

19 Chrysene



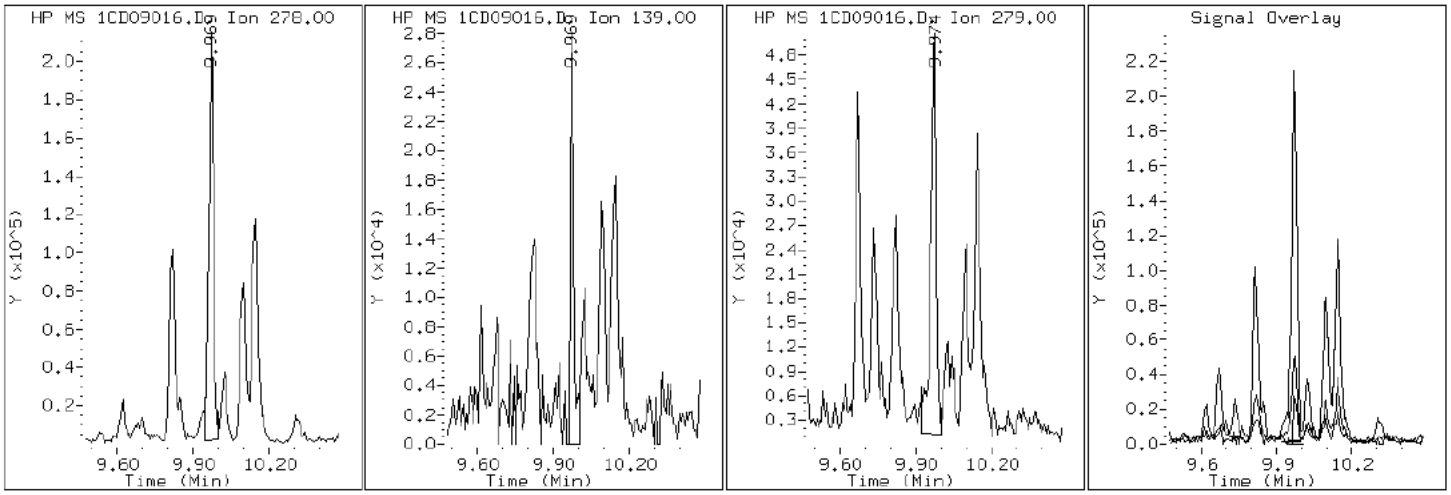
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



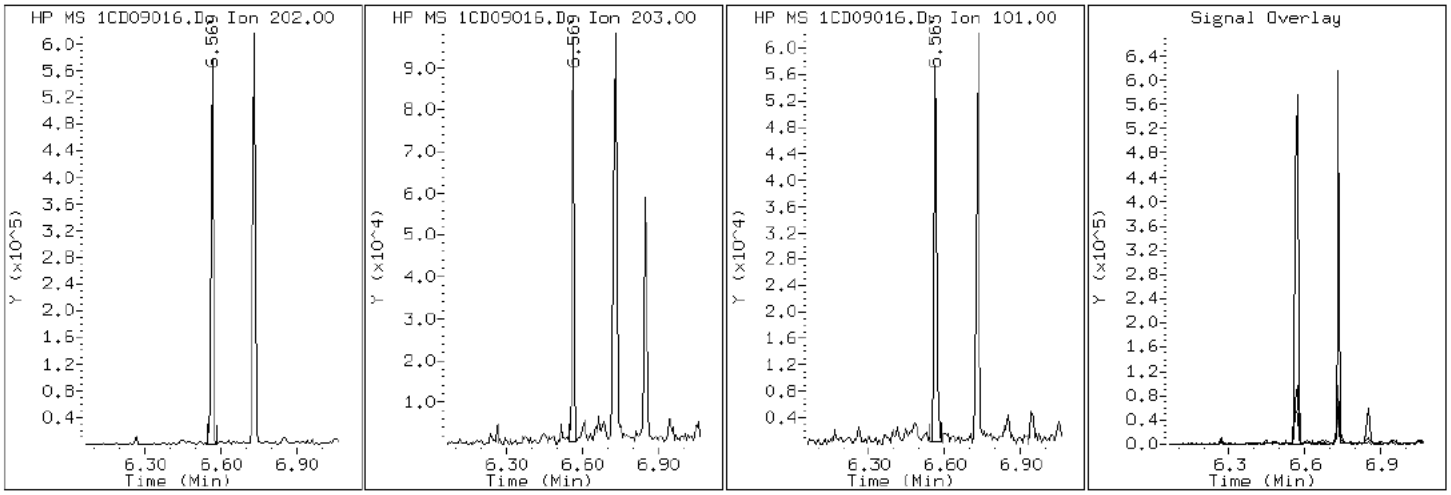
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

15 Fluoranthene



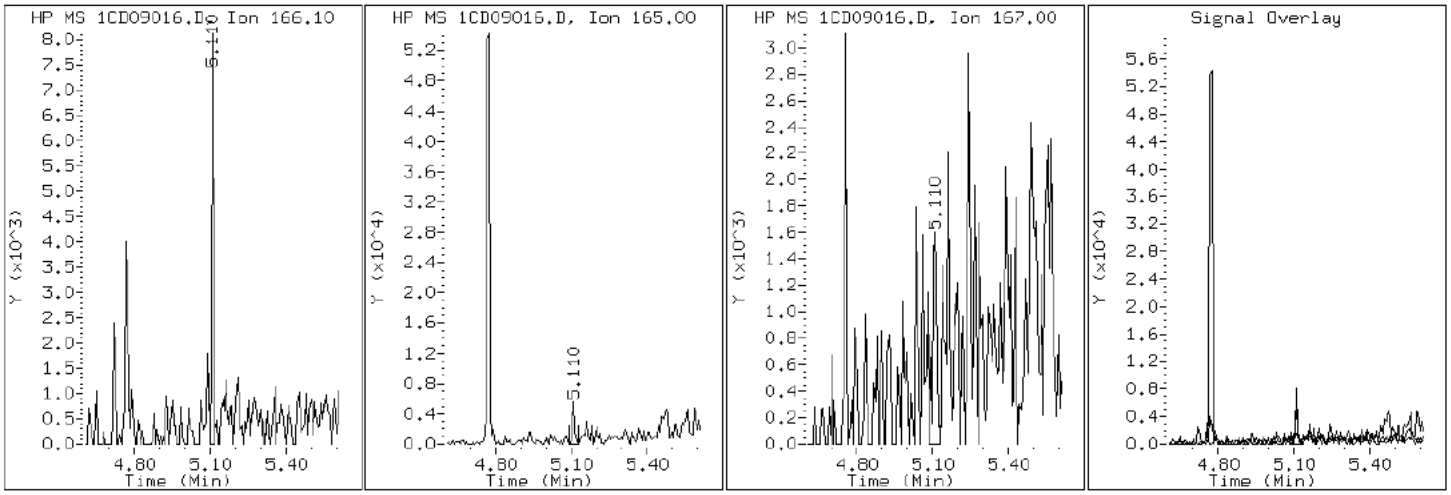
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

9 Fluorene



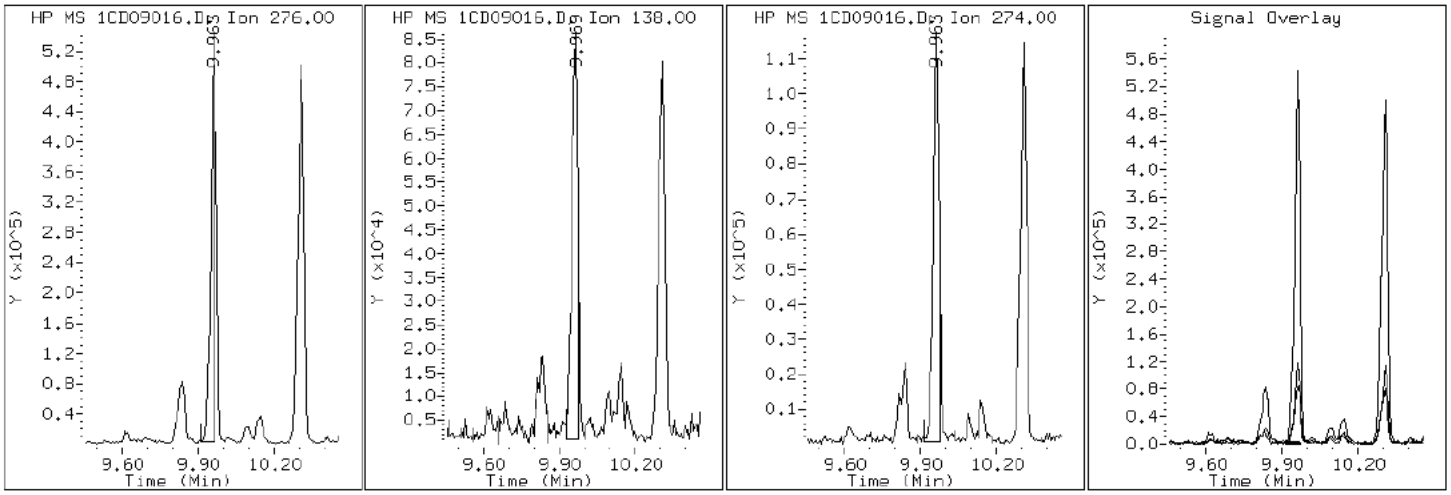
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

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



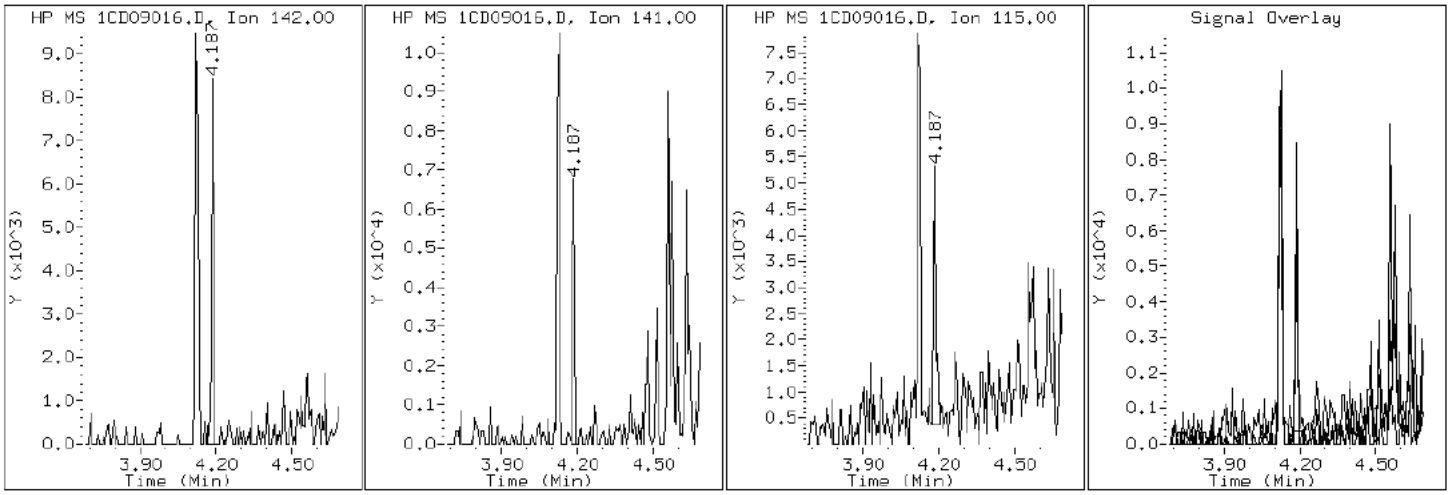
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

4 1-Methylnaphthalene



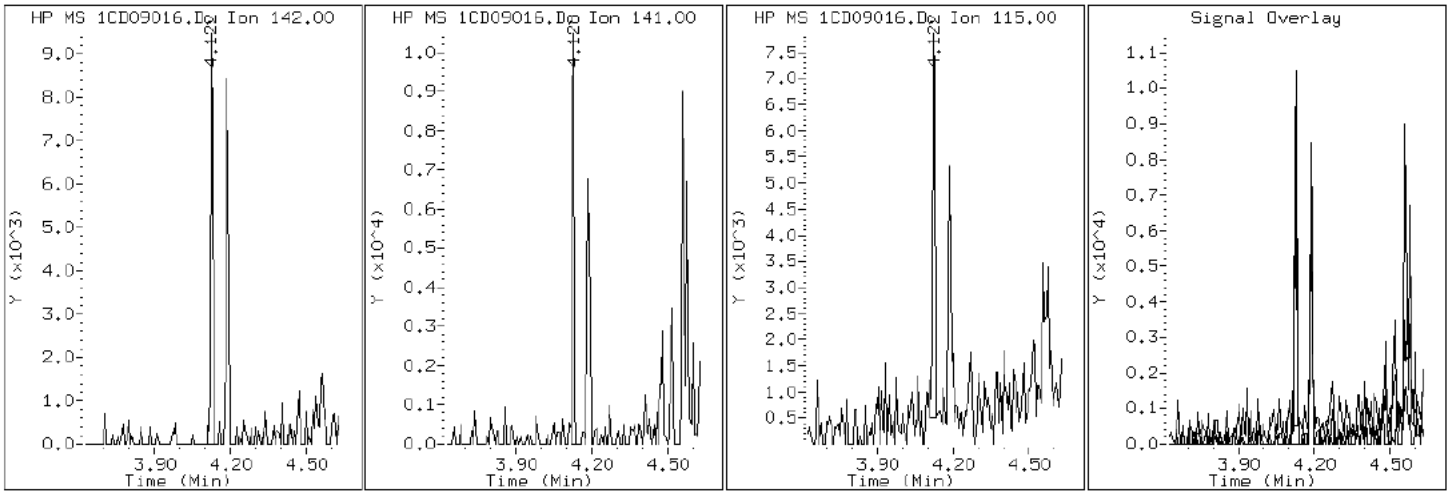
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

3 2-Methylnaphthalene



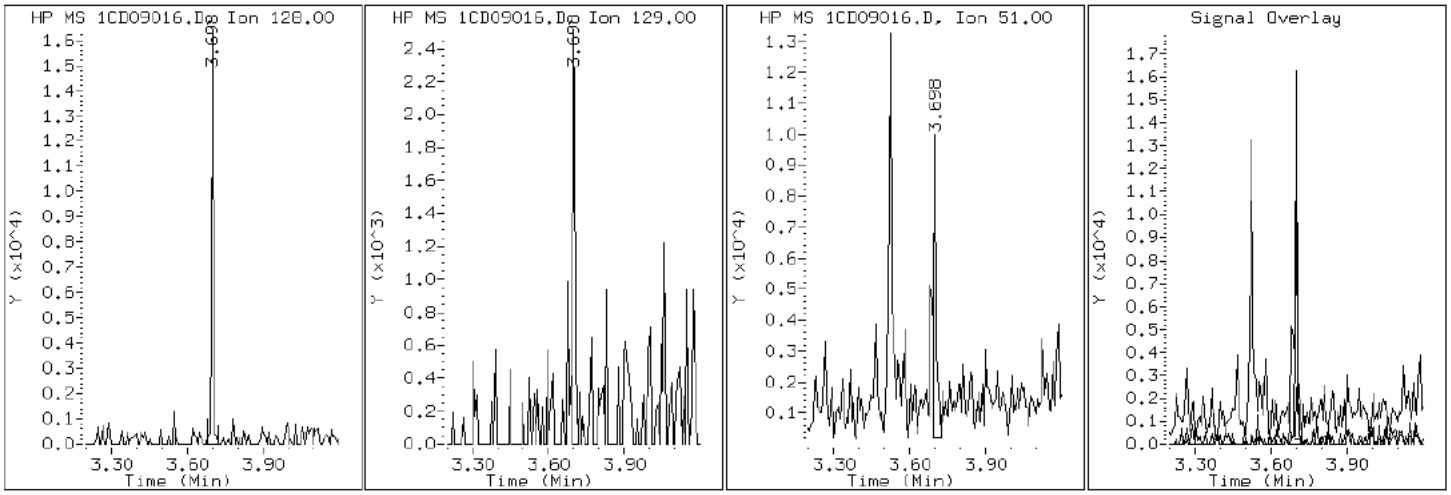
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

2 Naphthalene



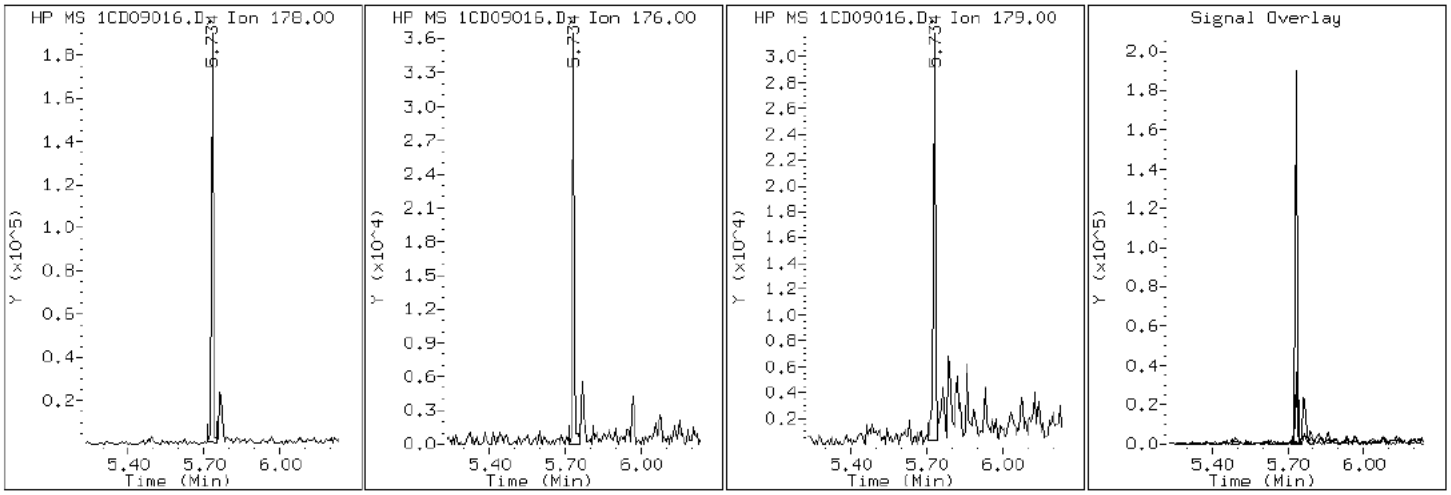
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

11 Phenanthrene



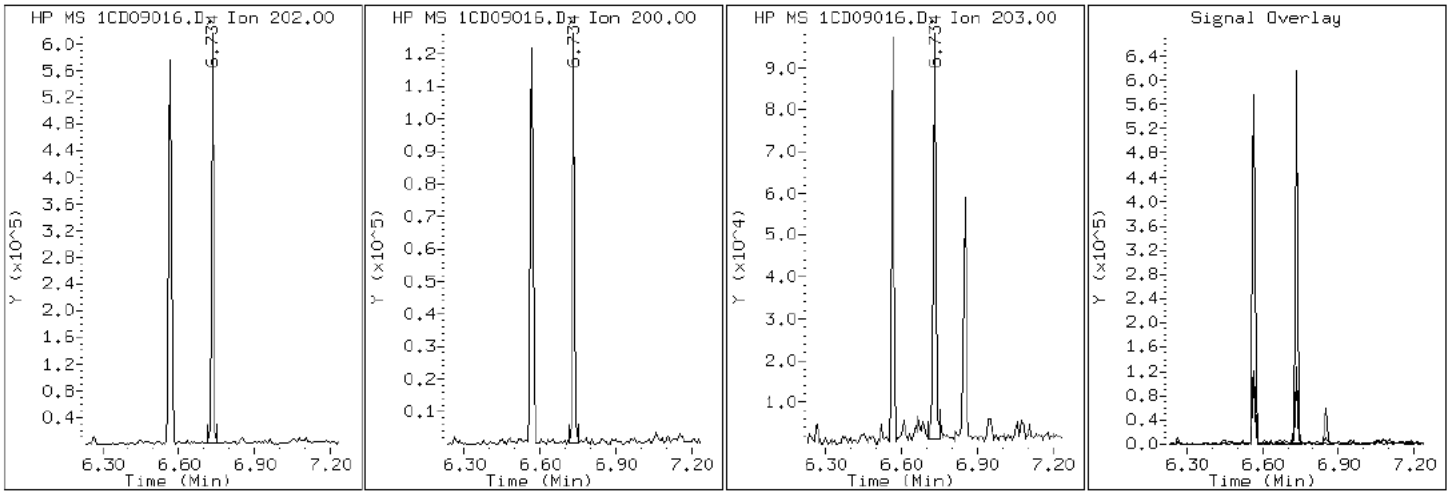
Data File: 1CD09016.D

Date: 09-APR-2013 15:50

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09016.D
Inj. Date and Time: 09-APR-2013 15:50
Instrument ID: BSMC5973.i
Client ID: CV1050A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

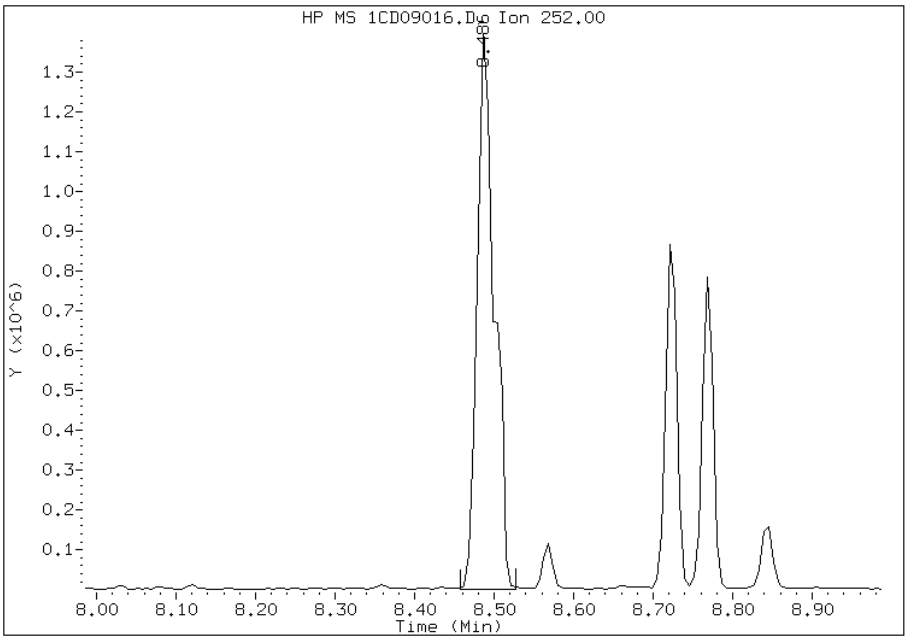
Processing Integration Results

RT: 8.49

Response: 2084308

Amount: 135

Conc: 10322



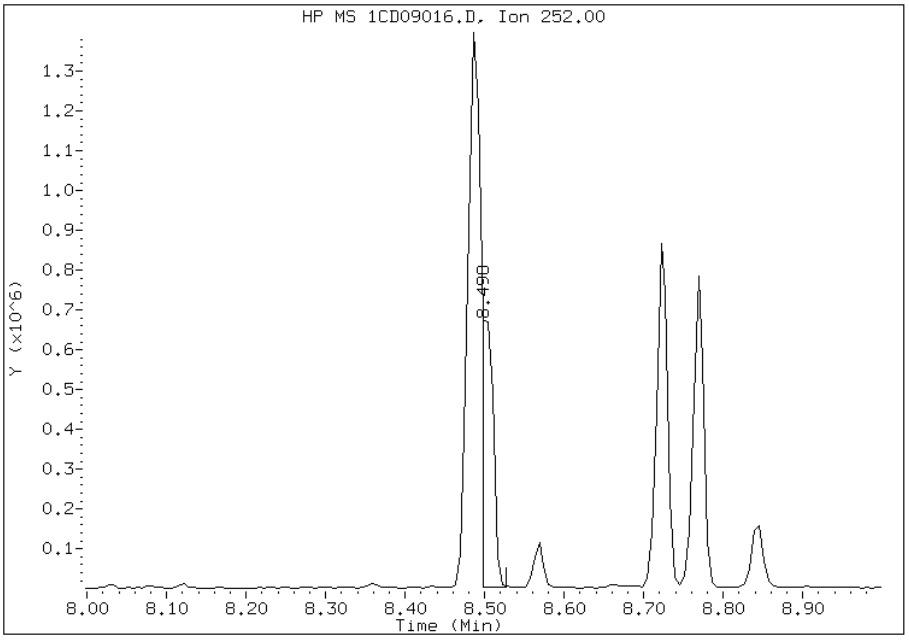
Manual Integration Results

RT: 8.50

Response: 672832

Amount: 44

Conc: 3332



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09016.D
Inj. Date and Time: 09-APR-2013 15:50
Instrument ID: BSMC5973.i
Client ID: CV1050A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

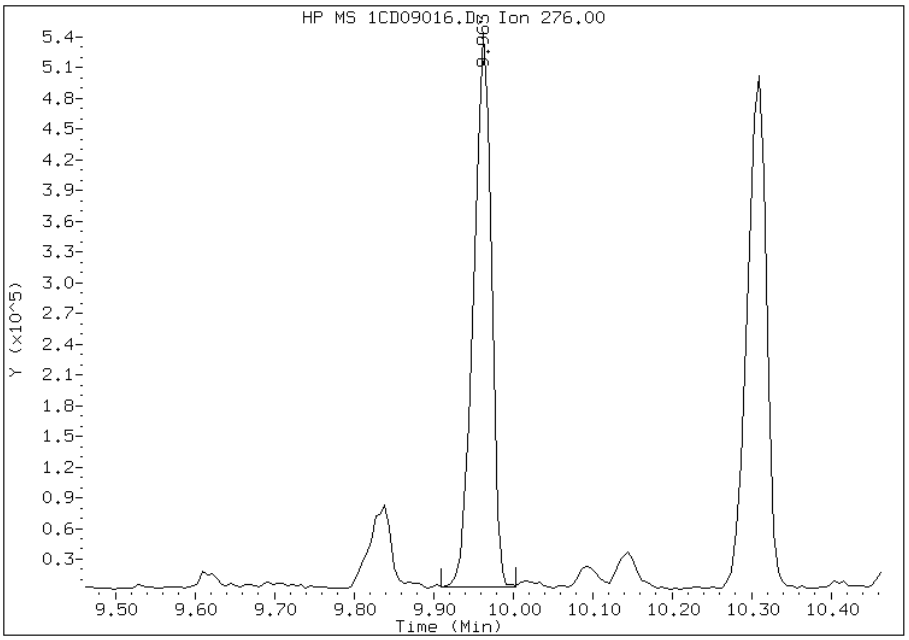
Processing Integration Results

RT: 9.96

Response: 836376

Amount: 59

Conc: 4480



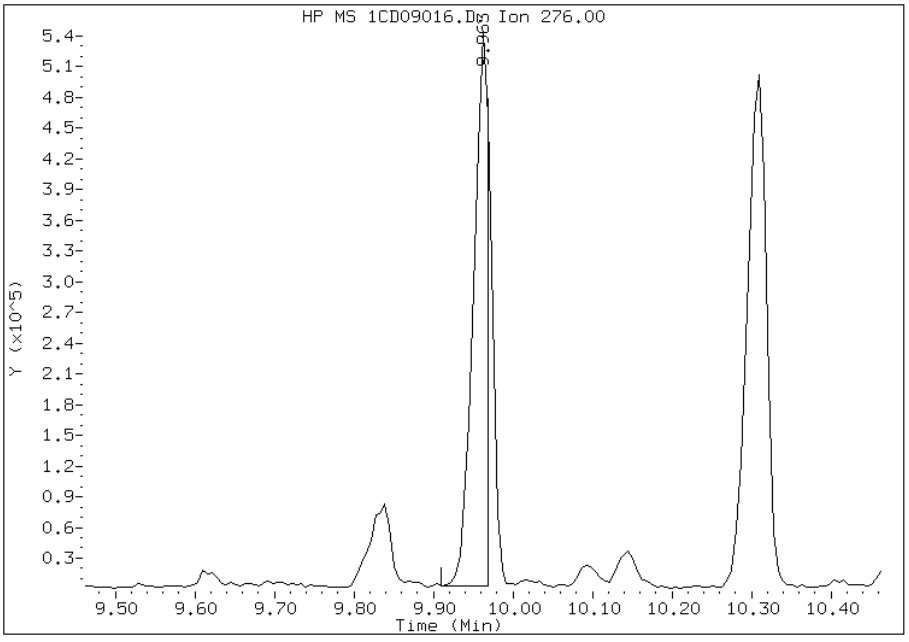
Manual Integration Results

RT: 9.96

Response: 709809

Amount: 50

Conc: 3802



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1050A-CS DL | Lab Sample ID: 680-88811-37 DL

Matrix: Solid | Lab File ID: 1CD10013.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:30

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.19(g) | Date Analyzed: 04/10/2013 15:42

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

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

% Moisture: 13.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136309 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	3600		48	24
205-99-2	Benzo[b]fluoranthene	7300		56	28
191-24-2	Benzo[g,h,i]perylene	4200		92	20

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10013.D
Lab Smp Id: 680-88811-A-37-A Client Smp ID: CV1050A-CS
Inj Date : 10-APR-2013 15:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-37-a
Misc Info : 680-88811-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	13.922	% 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	3.680	3.680	(1.000)	387605	40.0000	
*	6 Acenaphthene-d10	164	4.769	4.768	(1.000)	282747	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.710	(1.000)	499296	40.0000	
$	14 o-Terphenyl	230	5.968	5.963	(1.043)	13812	2.42016	740.3766
*	18 Chrysene-d12	240	7.662	7.645	(1.000)	600122	40.0000	(H)
*	23 Perylene-d12	264	8.839	8.809	(1.000)	544865	40.0000	(H)
	2 Naphthalene	128	3.698	3.692	(1.005)	3520	0.35357	108.1646
	3 2-Methylnaphthalene	142	4.122	4.121	(1.120)	1352	0.19950	61.0313(Q)
	4 1-Methylnaphthalene	142	4.186	4.180	(1.137)	1773	0.29076	88.9481
	11 Phenanthrene	178	5.733	5.727	(1.002)	28119	1.93366	591.5466
	12 Anthracene	178	5.768	5.763	(1.008)	4977	0.33763	103.2867
	13 Carbazole	167	5.880	5.868	(1.028)	3946	0.31245	95.5833
	15 Fluoranthene	202	6.568	6.557	(1.148)	97794	6.08944	1862.8808
	16 Pyrene	202	6.733	6.727	(0.879)	99166	5.96529	1824.9009(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.651	7.639	(0.998)	123499	7.23797	2214.2403(H)
19 Chrysene	228	7.680	7.668	(1.002)	174352	10.1955	3119.0116(H)
20 Benzo(b)fluoranthene	252	8.504	8.474	(0.962)	368109	23.8973	7310.6600(MH)
21 Benzo(k)fluoranthene	252	8.515	8.498	(0.963)	130832	8.78171	2686.4994(QM)
22 Benzo(a)pyrene	252	8.786	8.756	(0.994)	170039	11.7250	3586.8983(H)
24 Indeno(1,2,3-cd)pyrene	276	9.980	9.939	(1.129)	159821	11.6027	3549.5024(MH)
25 Dibenzo(a,h)anthracene	278	9.986	9.950	(1.130)	68206	5.36028	1639.8159(H)
26 Benzo(g,h,i)perylene	276	10.321	10.280	(1.168)	190876	13.5773	4153.5664(H)

QC Flag Legend

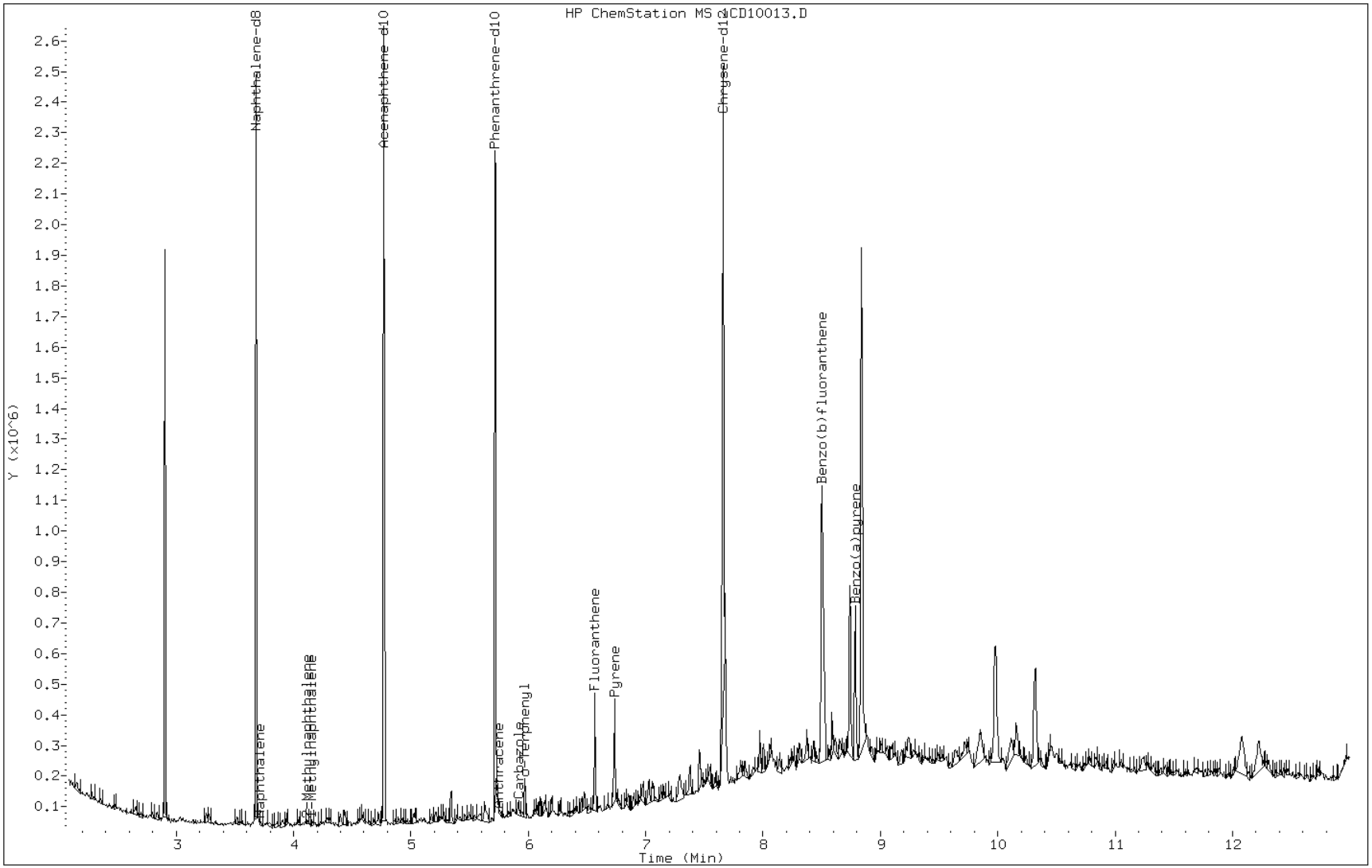
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD10013.D

Date: 10-APR-2013 15:42

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC



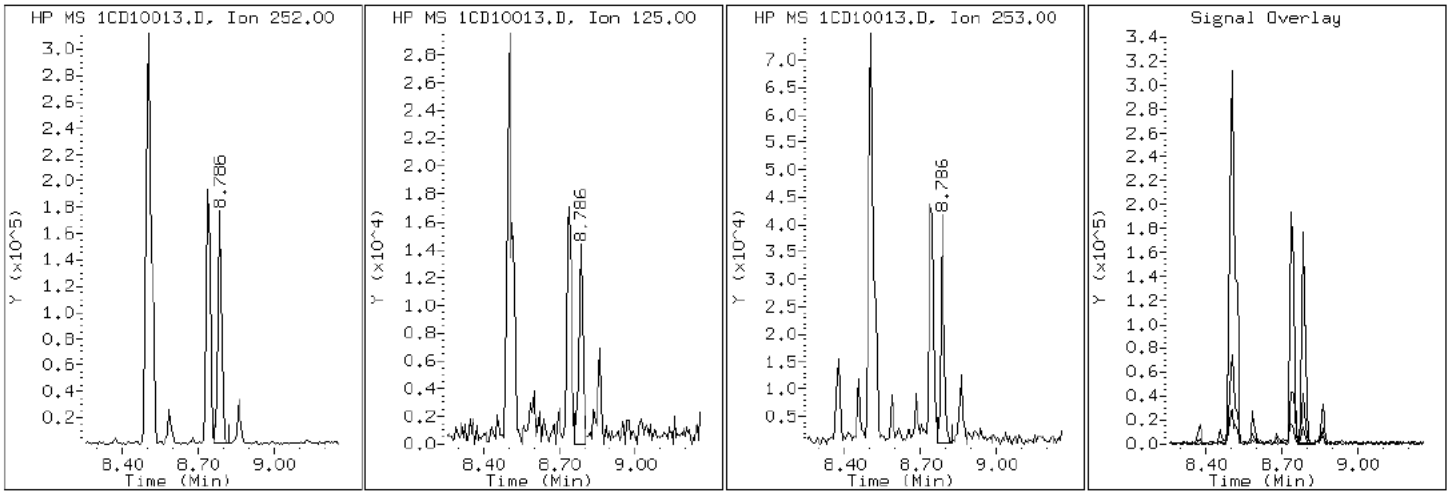
Data File: 1CD10013.D

Date: 10-APR-2013 15:42

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

22 Benzo(a)pyrene



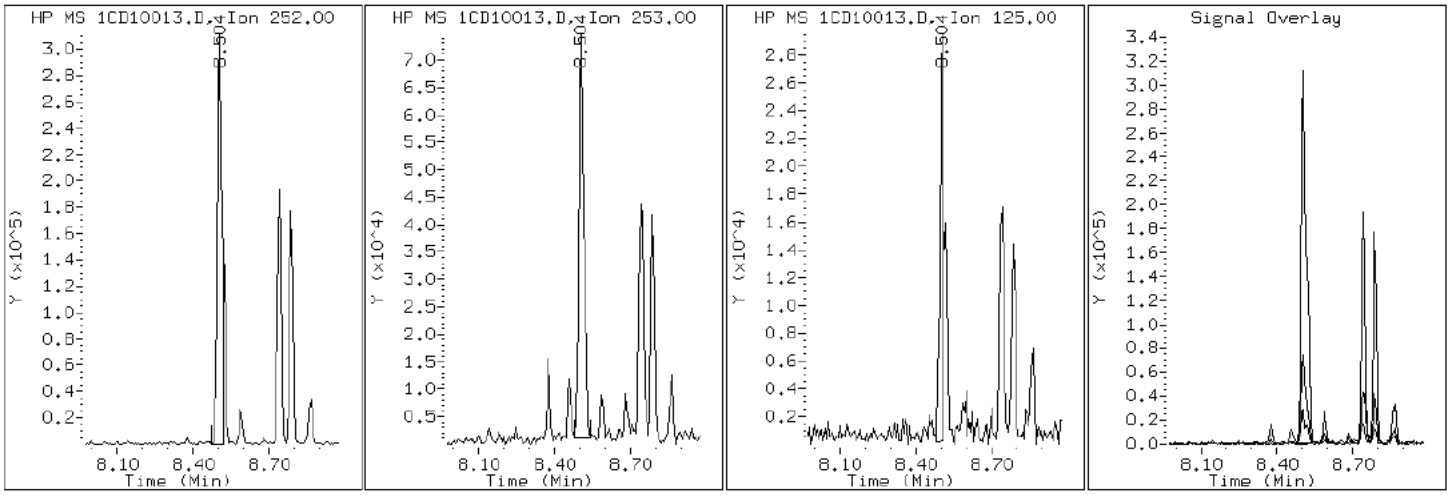
Data File: 1CD10013.D

Date: 10-APR-2013 15:42

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



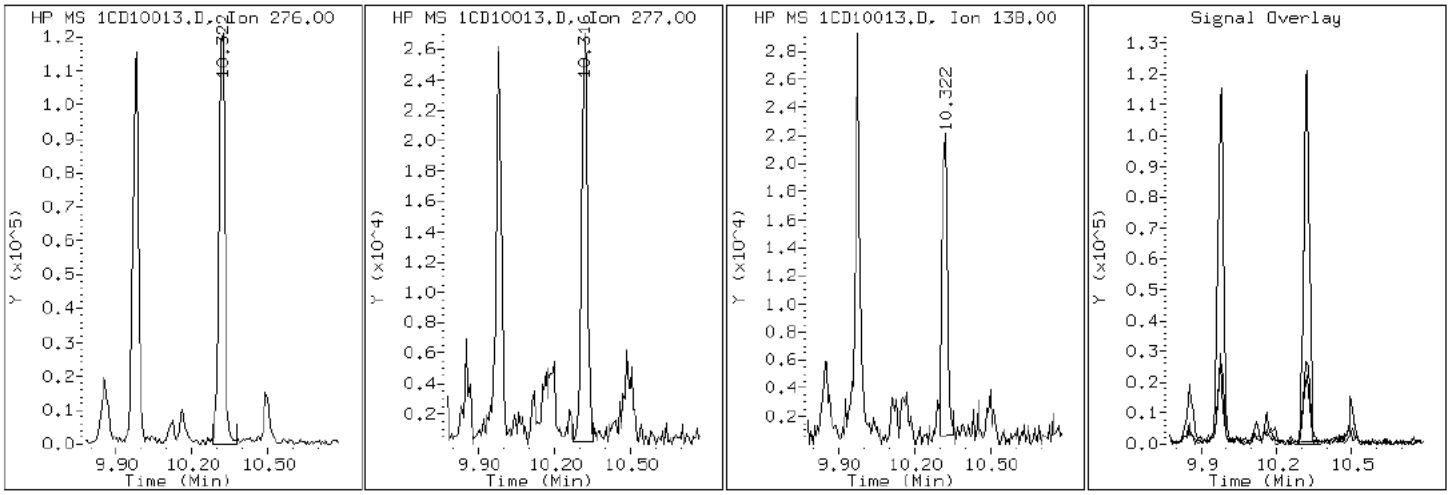
Data File: 1CD10013.D

Date: 10-APR-2013 15:42

Client ID: CV1050A-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



Manual Integration Report

Data File: 1CD10013.D
Inj. Date and Time: 10-APR-2013 15:42
Instrument ID: BSMC5973.i
Client ID: CV1050A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

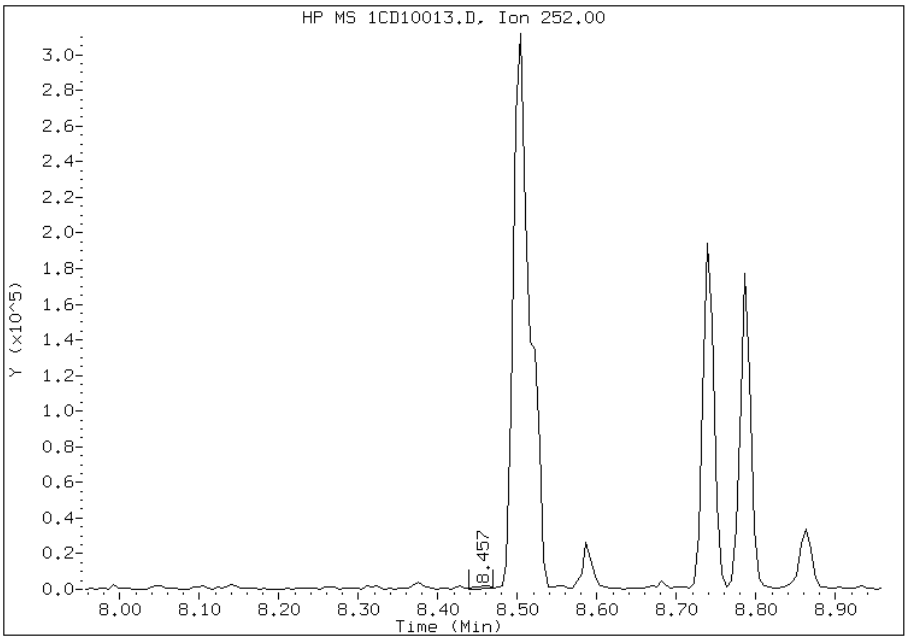
Processing Integration Results

RT: 8.46

Response: 2035

Amount: 0

Conc: 40



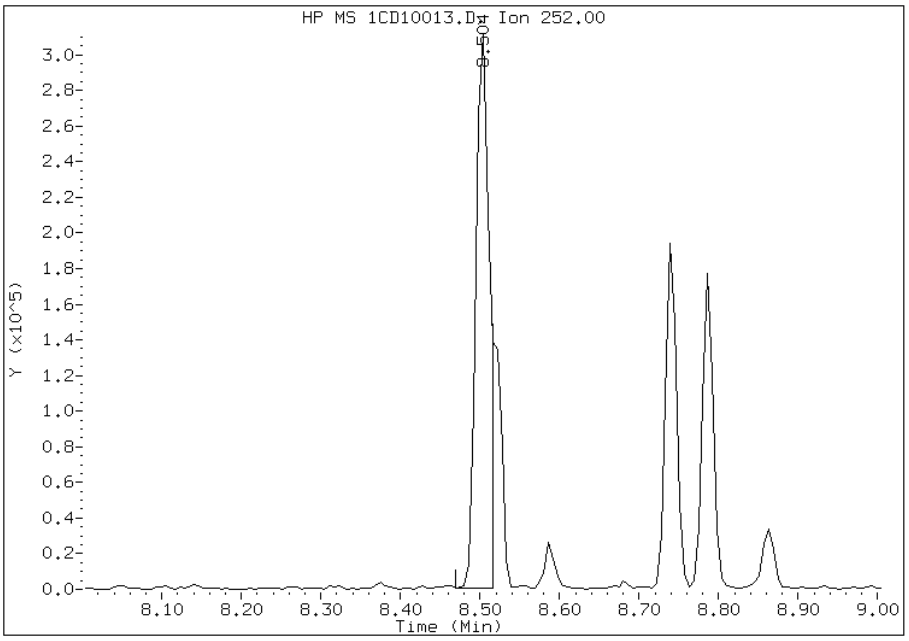
Manual Integration Results

RT: 8.50

Response: 368109

Amount: 24

Conc: 7311



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 16:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1050B-CS | Lab Sample ID: 680-88811-38

Matrix: Solid | Lab File ID: 1CD09017.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 14:35

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.95(g) | Date Analyzed: 04/09/2013 16:08

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	57	J	200	25
120-12-7	Anthracene	100		42	21
56-55-3	Benzo[a]anthracene	1600		40	19
50-32-8	Benzo[a]pyrene	2400		51	26
205-99-2	Benzo[b]fluoranthene	3600		60	30
191-24-2	Benzo[g,h,i]perylene	2300		99	22
207-08-9	Benzo[k]fluoranthene	1300		40	18
218-01-9	Chrysene	1900		45	22
53-70-3	Dibenz(a,h)anthracene	860		99	20
206-44-0	Fluoranthene	1100		99	20
86-73-7	Fluorene	57	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	2200		99	35
90-12-0	1-Methylnaphthalene	96	J	200	22
91-57-6	2-Methylnaphthalene	130	J	200	35
91-20-3	Naphthalene	160	J	200	22
85-01-8	Phenanthrene	520		40	19
129-00-0	Pyrene	1300		99	18

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09017.D
Lab Smp Id: 680-88811-A-38-A Client Smp ID: CV1050B-CS
Inj Date : 09-APR-2013 16:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-38-a
Misc Info : 680-88811-A-38-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	18.950	% 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	3.686	3.686	(1.000)	408096	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	293239	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	564227	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	16994	2.57064	848.6055
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	595876	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	551867	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	5215	0.49753	164.2406
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	2878	0.40335	133.1530(Q)
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	1875	0.29204	96.4080
	5 Acenaphthylene	152	4.686	4.686	(0.982)	2098	0.17287	57.0661
	9 Fluorene	166	5.110	5.110	(1.070)	1716	0.17124	56.5300(Q)
	11 Phenanthrene	178	5.733	5.733	(1.003)	25799	1.56996	518.2662
	12 Anthracene	178	5.763	5.768	(1.008)	5172	0.31048	102.4934
	13 Carbazole	167	5.874	5.874	(1.028)	3197	0.22401	73.9483(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.562	6.568	(1.148)	62064	3.41987	1128.9468
16 Pyrene	202	6.733	6.733	(0.880)	67193	4.07077	1343.8192
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	82887	4.93637	1629.5669
19 Chrysene	228	7.674	7.674	(1.003)	99305	5.84840	1930.6408
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	171621	11.0001	3631.2966(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	59722	3.95780	1306.5266(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	107357	7.30882	2412.7484
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	94580	6.77922	2237.9176(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	33711	2.61572	863.4860
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	97542	6.85028	2261.3753

QC Flag Legend

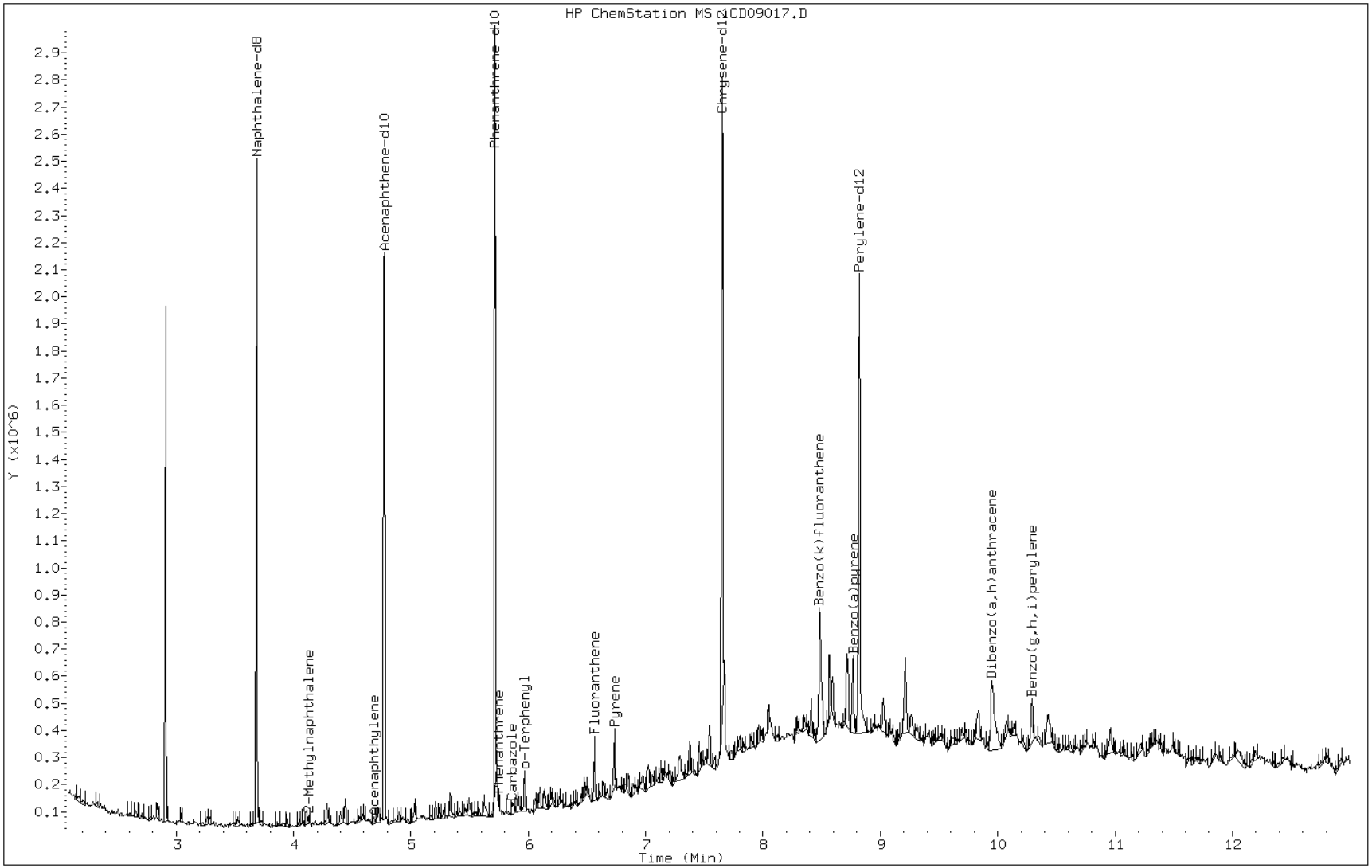
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC



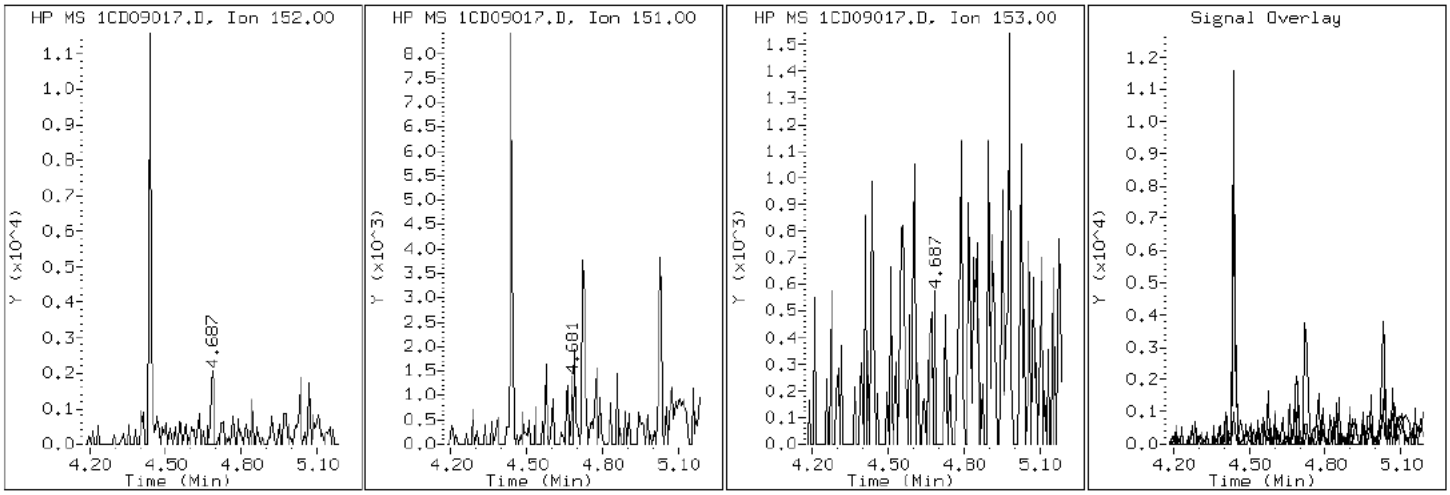
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

5 Acenaphthylene



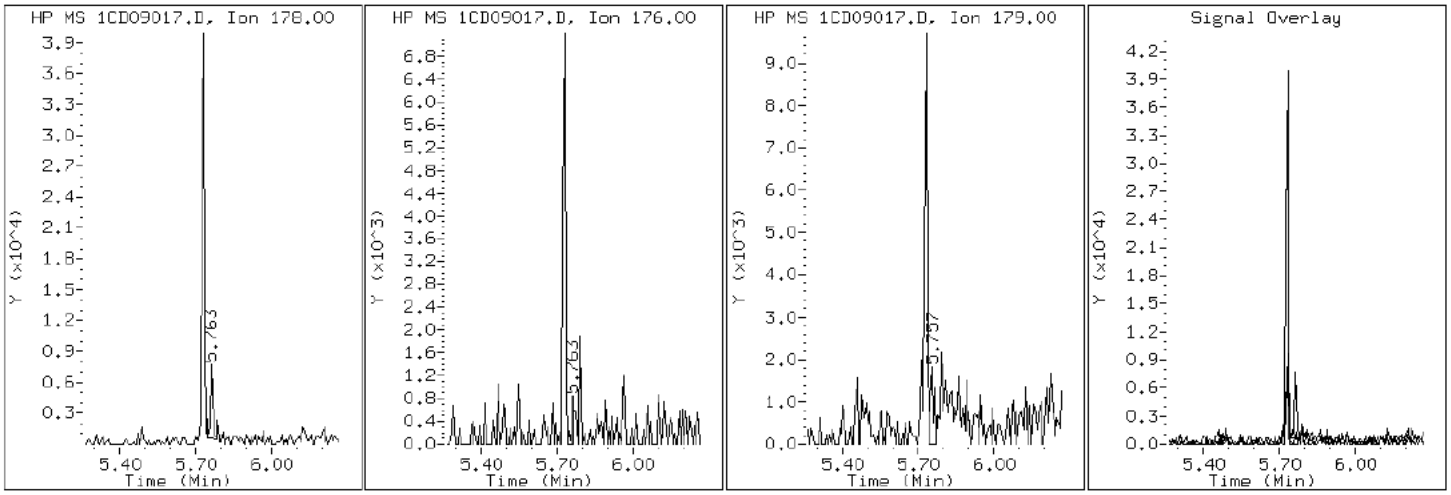
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

12 Anthracene



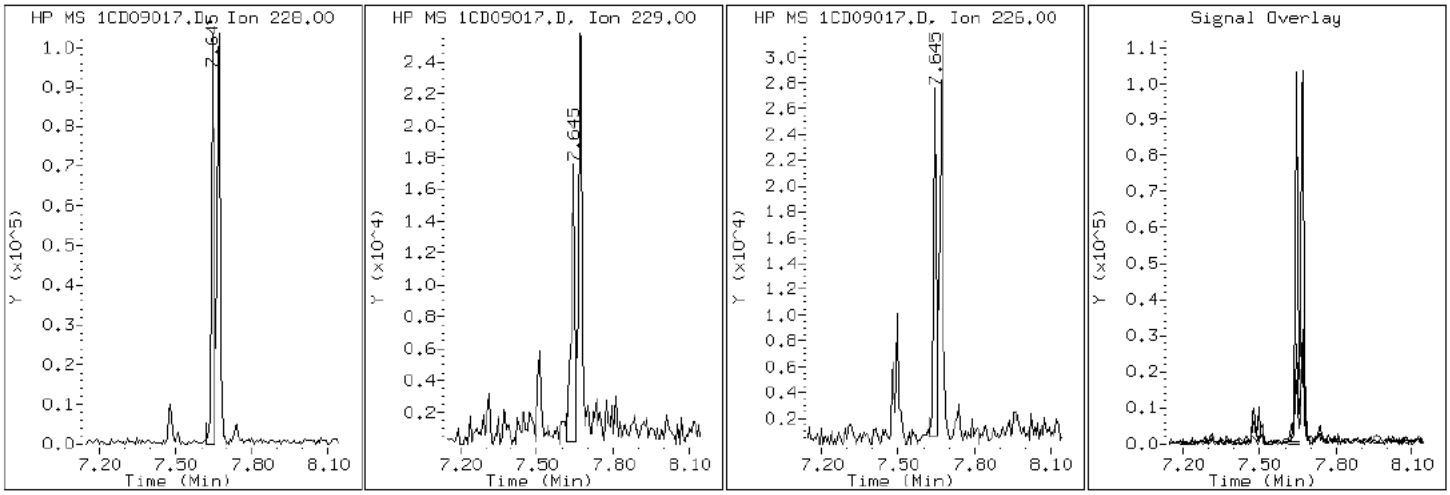
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

17 Benzo(a)anthracene



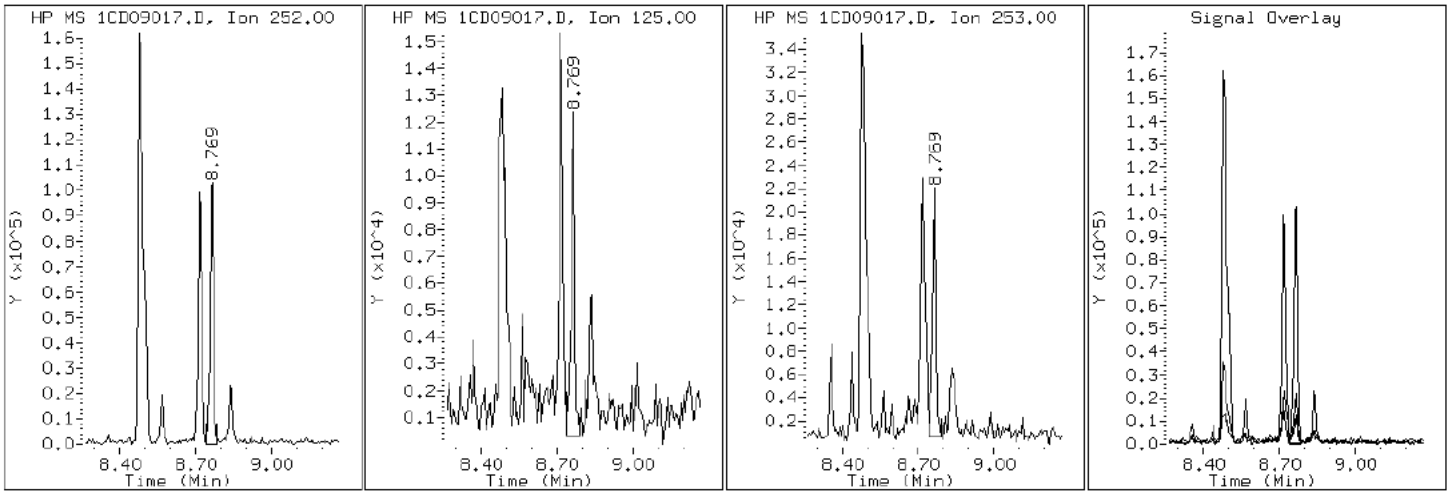
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

22 Benzo(a)pyrene



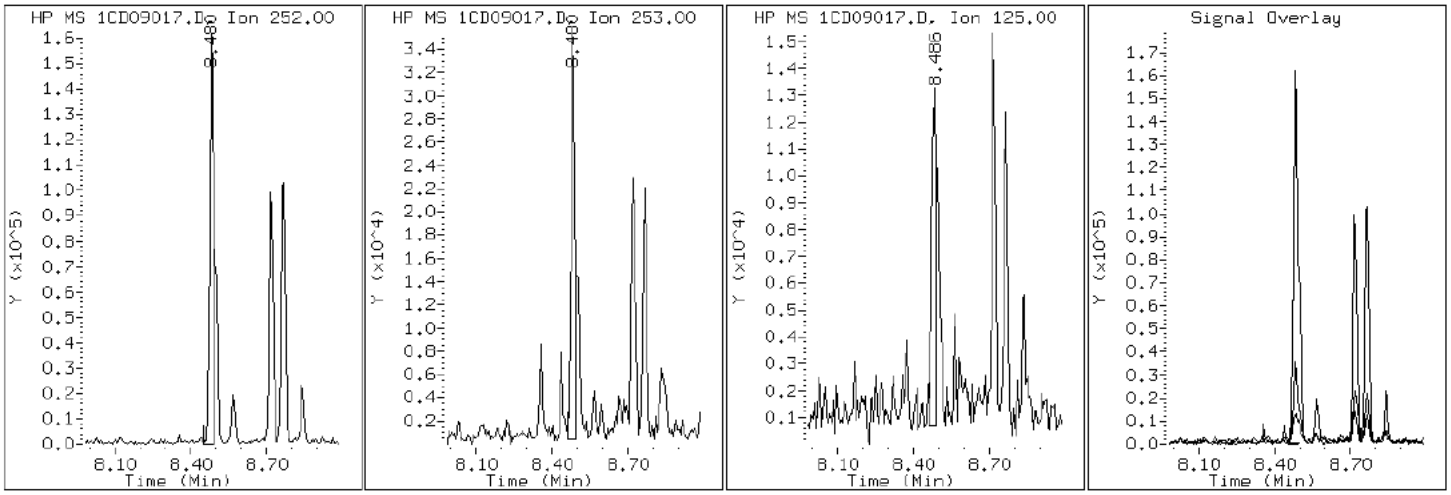
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



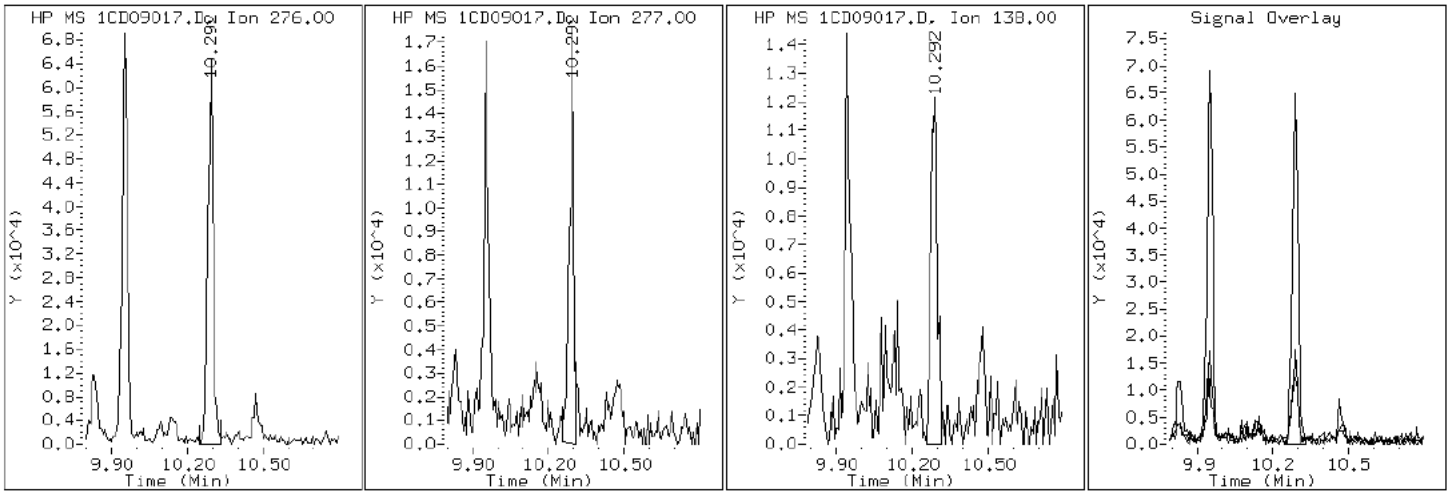
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



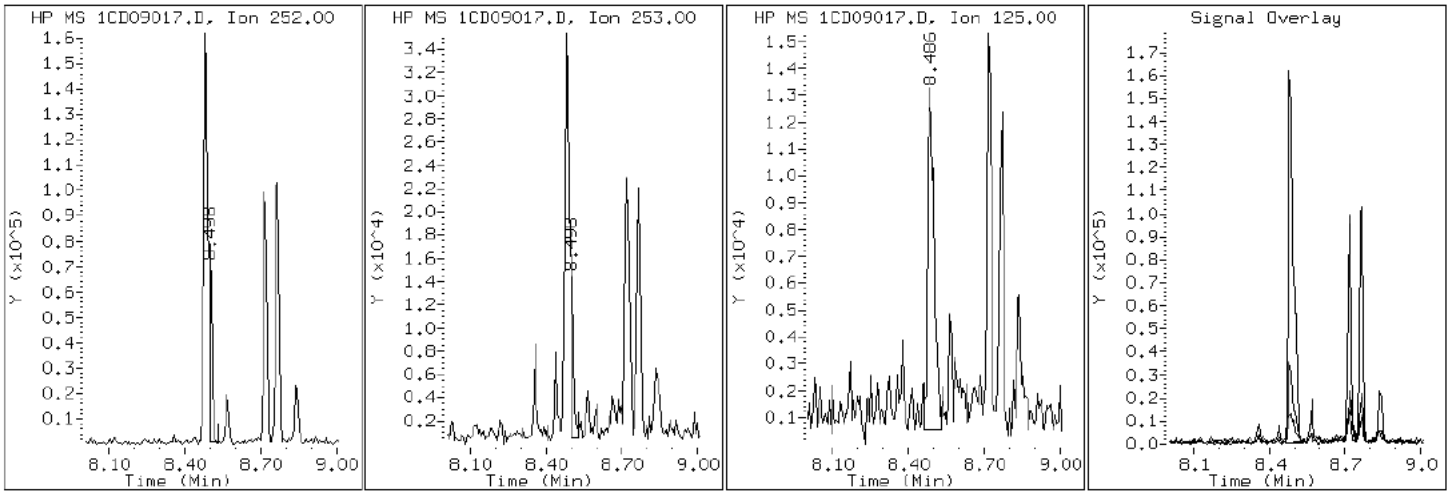
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



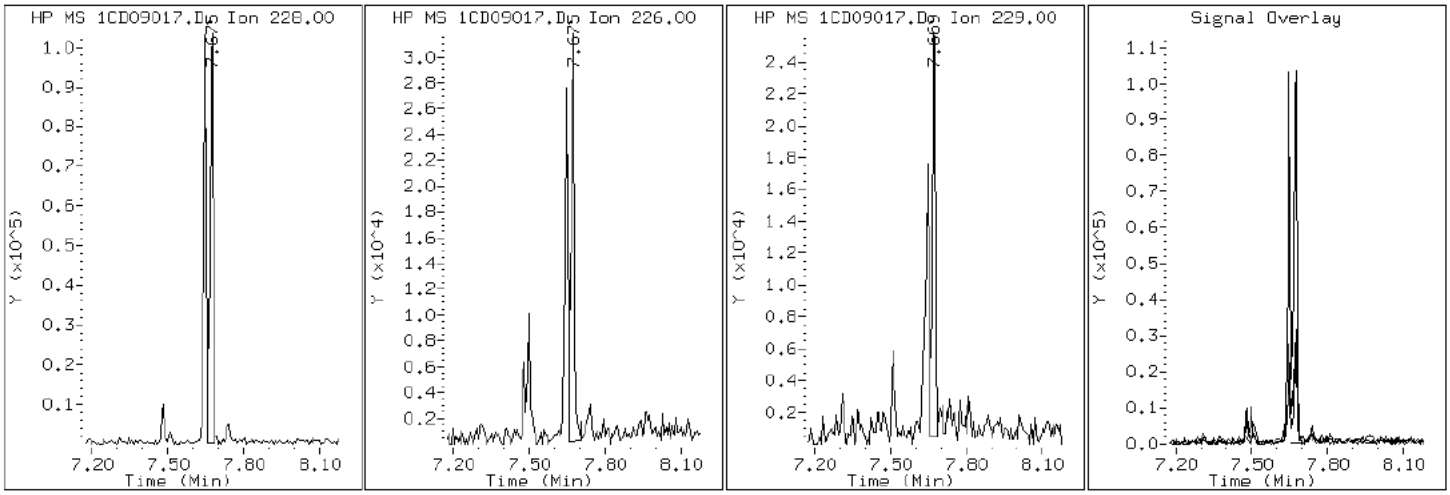
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

19 Chrysene



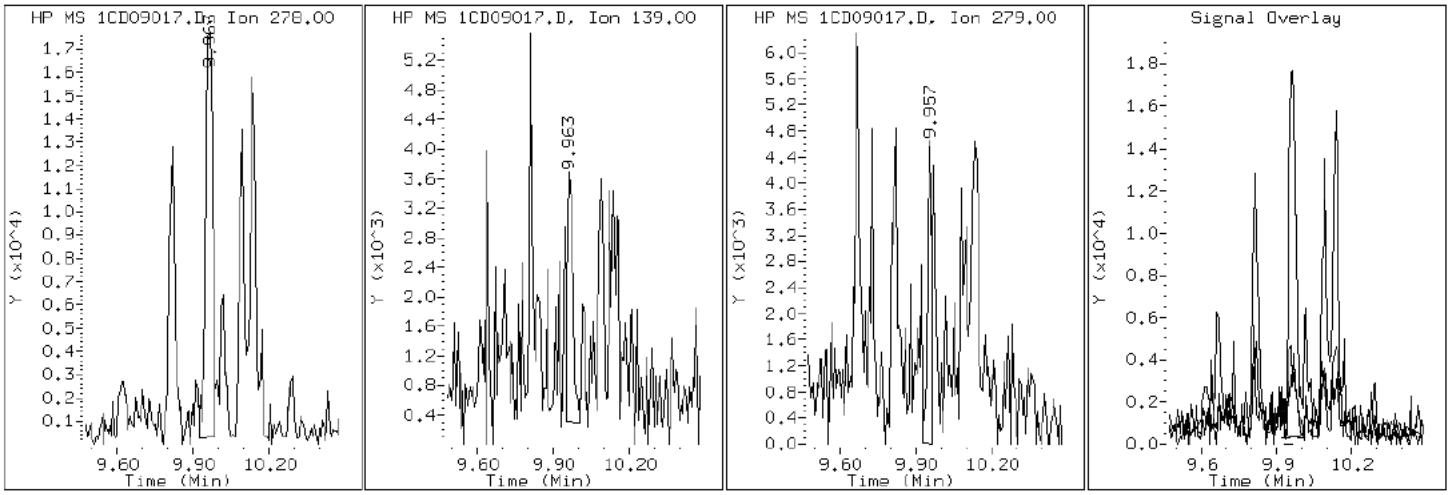
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

25 Dibenzo(a,h)anthracene



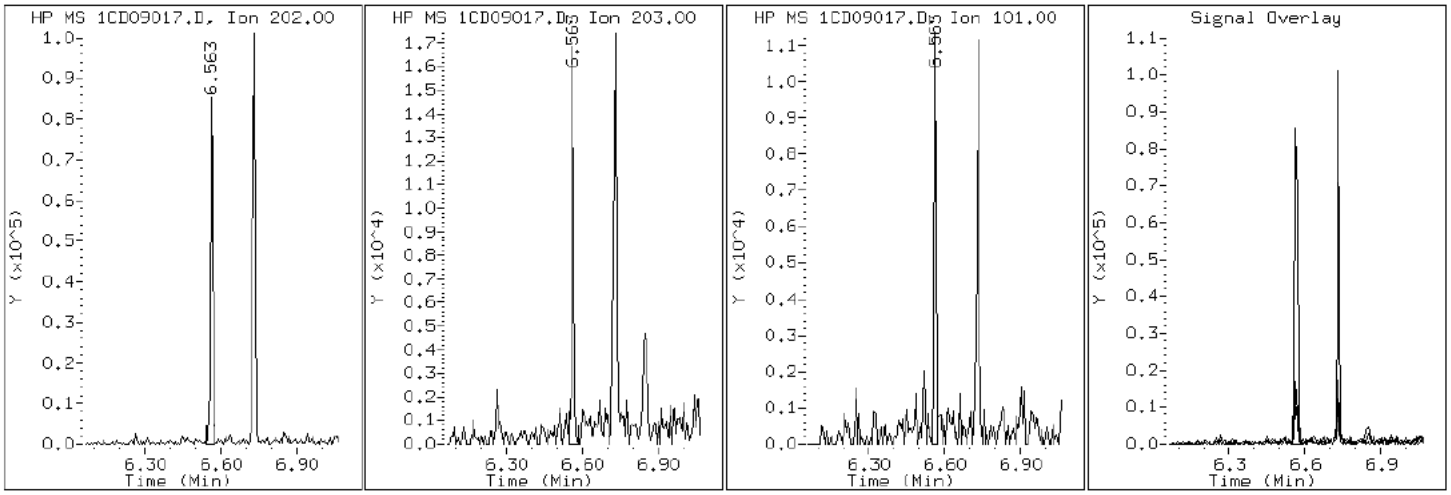
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

15 Fluoranthene



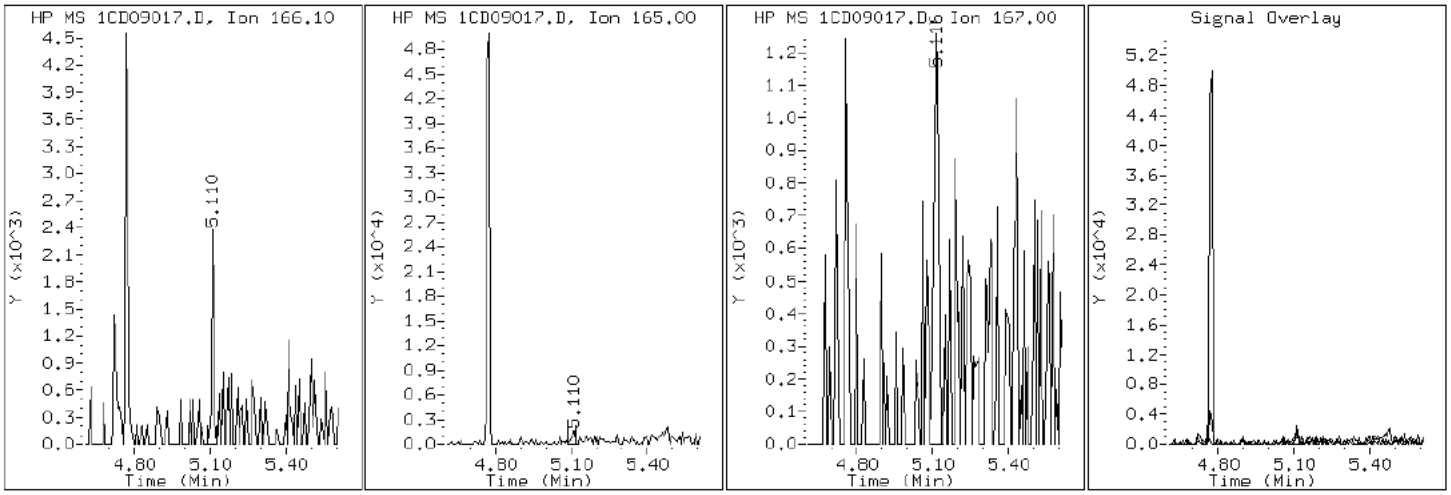
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

9 Fluorene



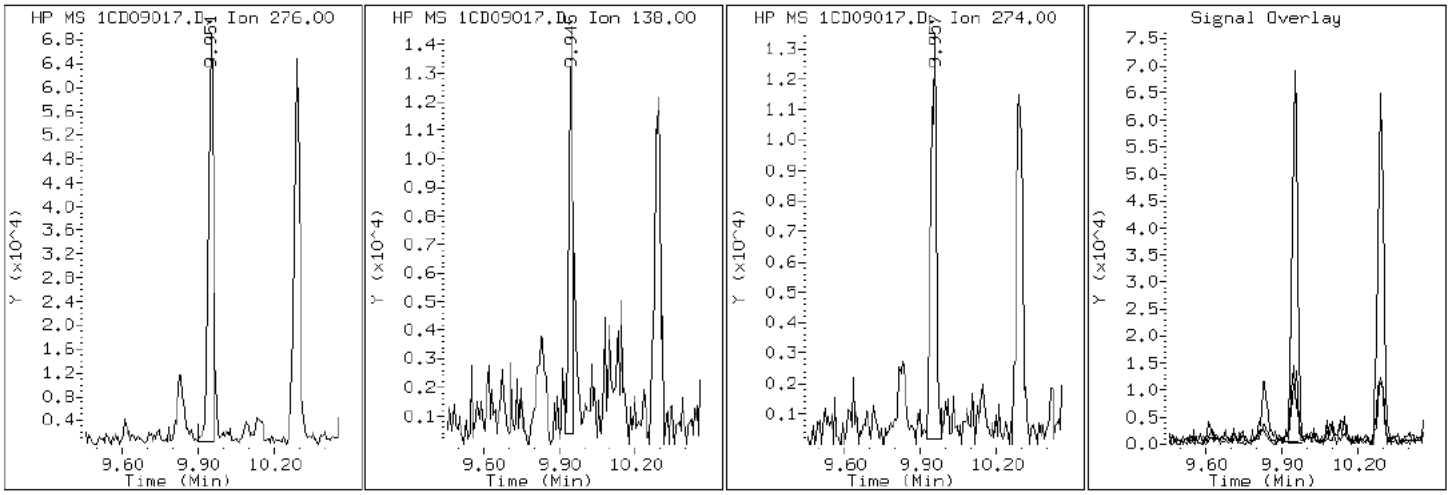
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

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



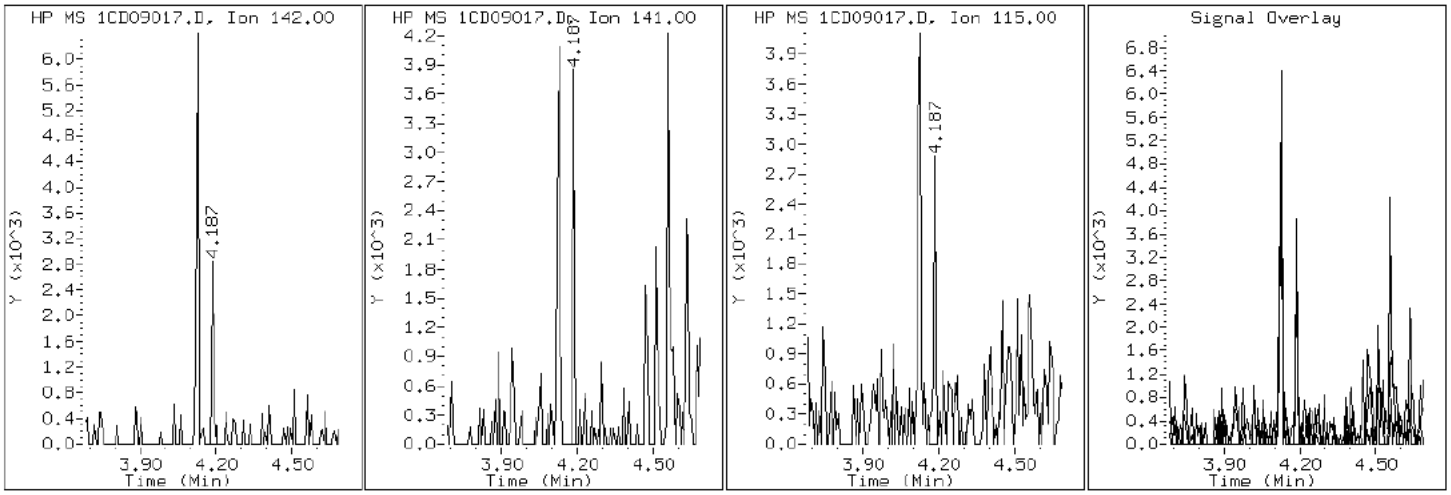
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

4 1-Methylnaphthalene



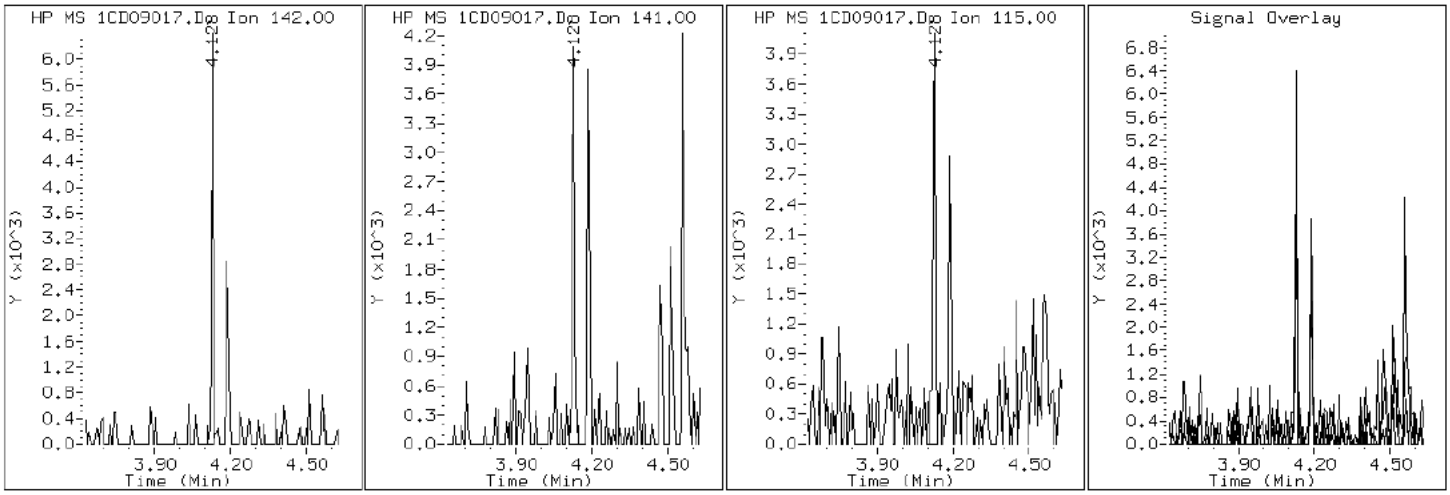
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

3 2-Methylnaphthalene



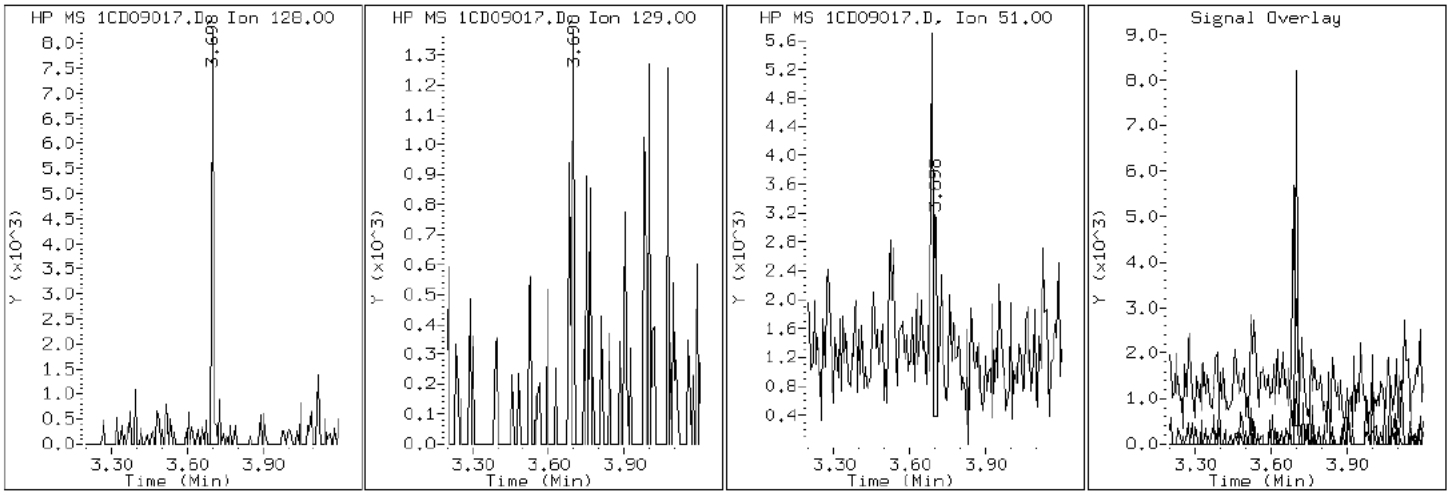
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

2 Naphthalene



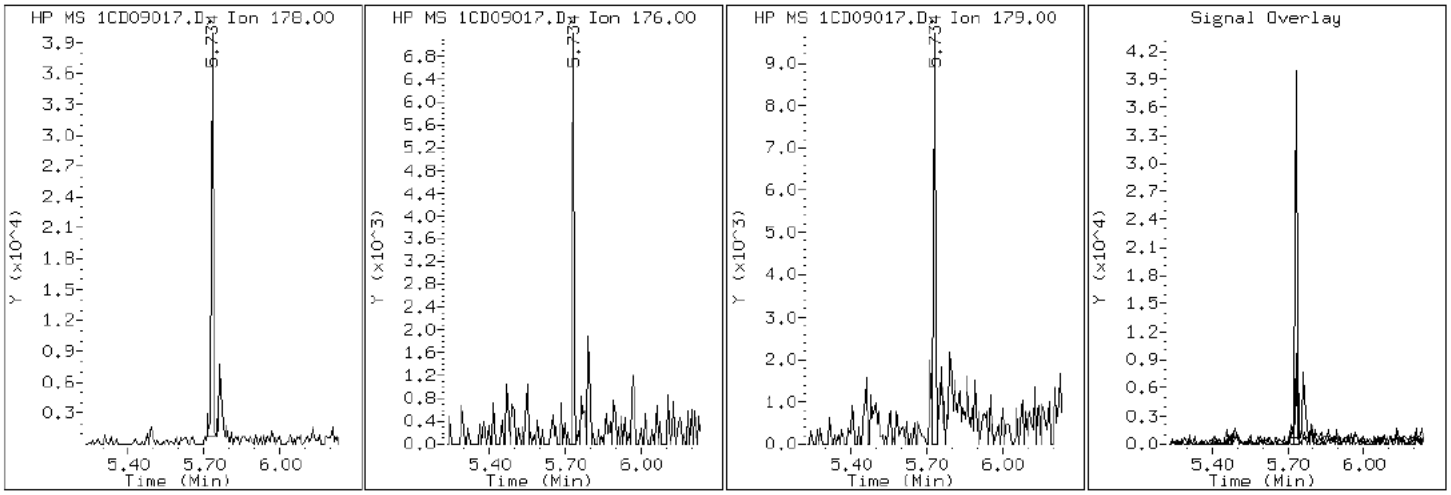
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

11 Phenanthrene



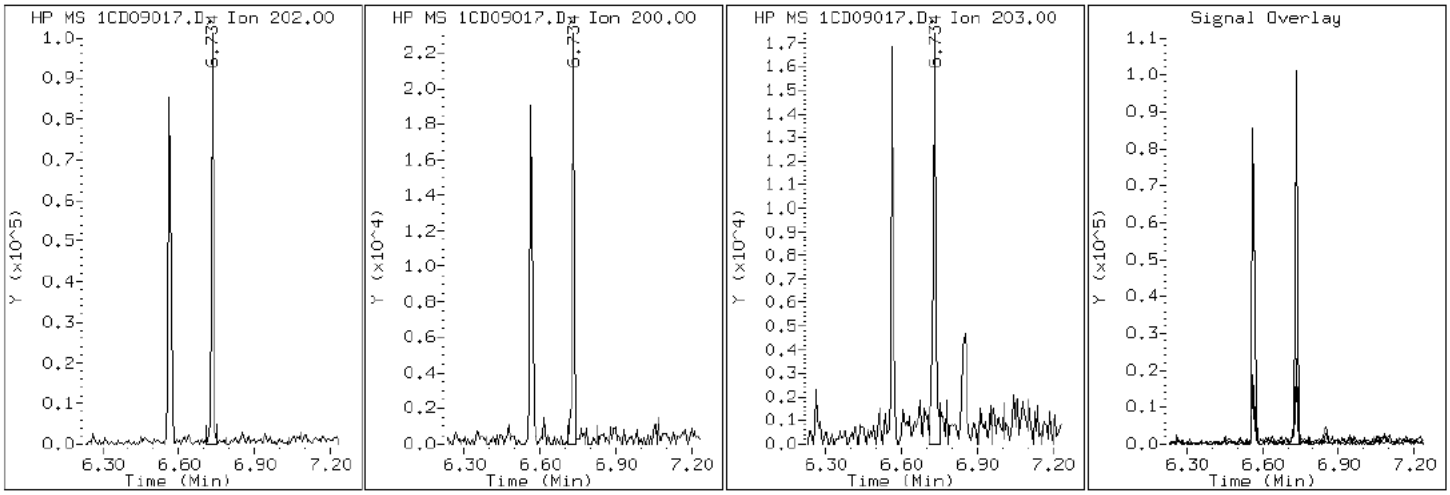
Data File: 1CD09017.D

Date: 09-APR-2013 16:08

Client ID: CV1050B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09017.D
Inj. Date and Time: 09-APR-2013 16:08
Instrument ID: BSMC5973.i
Client ID: CV1050B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

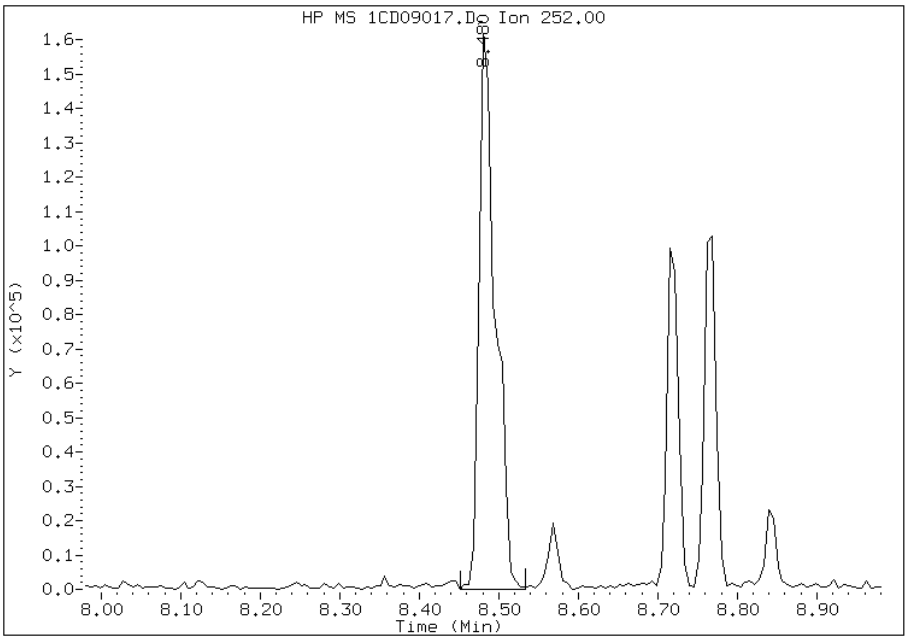
Processing Integration Results

RT: 8.48

Response: 233620

Amount: 15

Conc: 4943



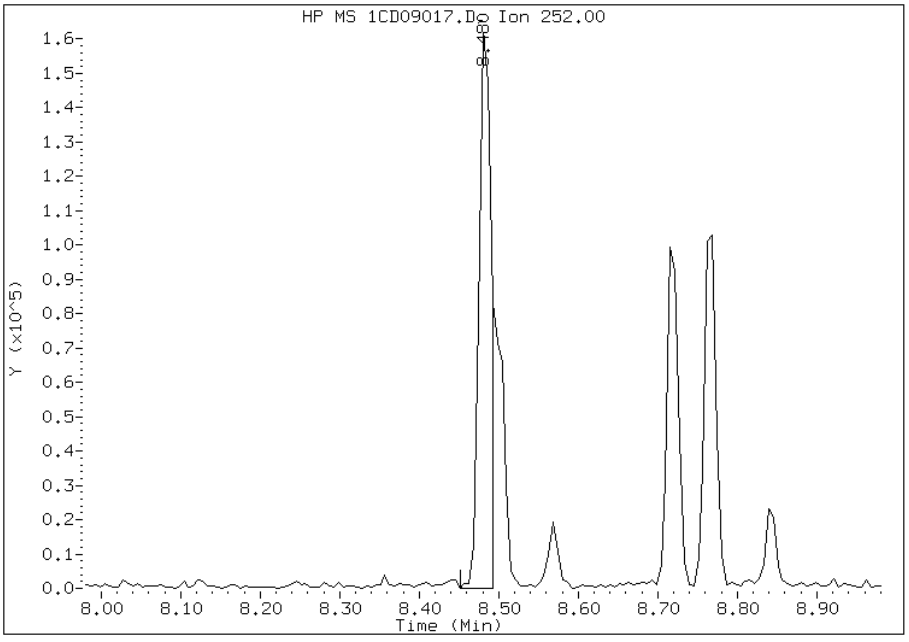
Manual Integration Results

RT: 8.48

Response: 171621

Amount: 11

Conc: 3631



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:03
Manual Integration Reason:

Manual Integration Report

Data File: 1CD09017.D
Inj. Date and Time: 09-APR-2013 16:08
Instrument ID: BSMC5973.i
Client ID: CV1050B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

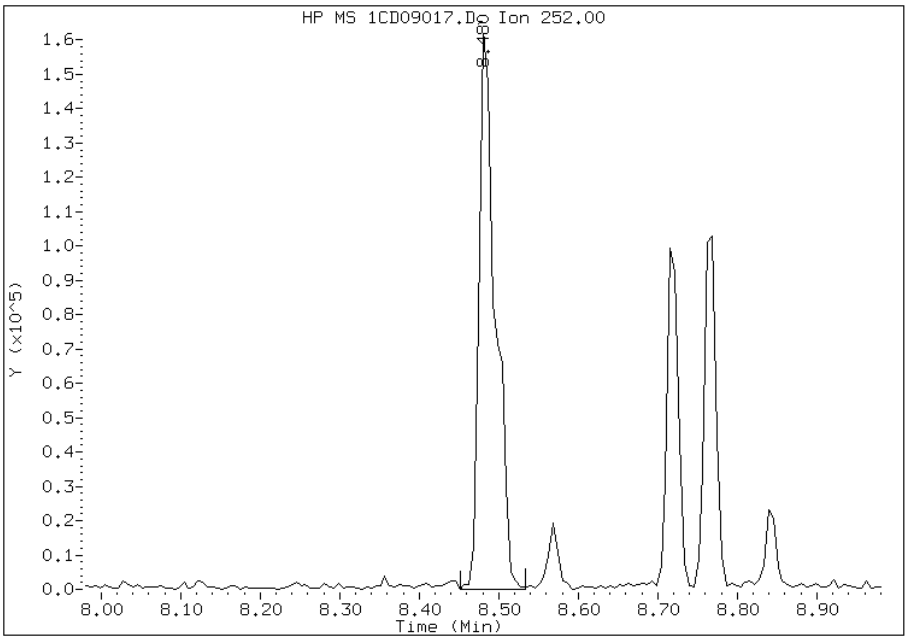
Processing Integration Results

RT: 8.48

Response: 233620

Amount: 15

Conc: 5111



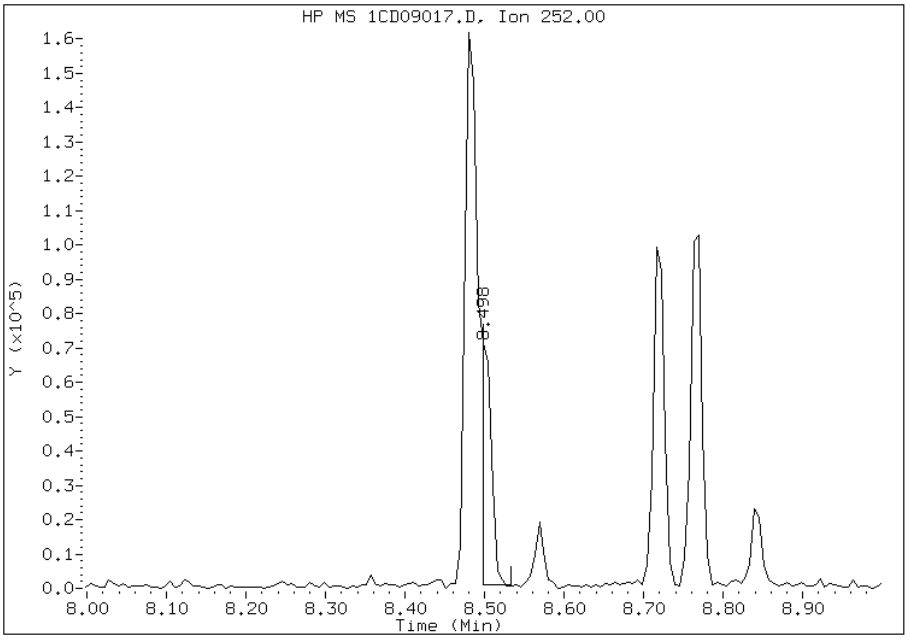
Manual Integration Results

RT: 8.50

Response: 59722

Amount: 4

Conc: 1307



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09017.D
Inj. Date and Time: 09-APR-2013 16:08
Instrument ID: BSMC5973.i
Client ID: CV1050B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

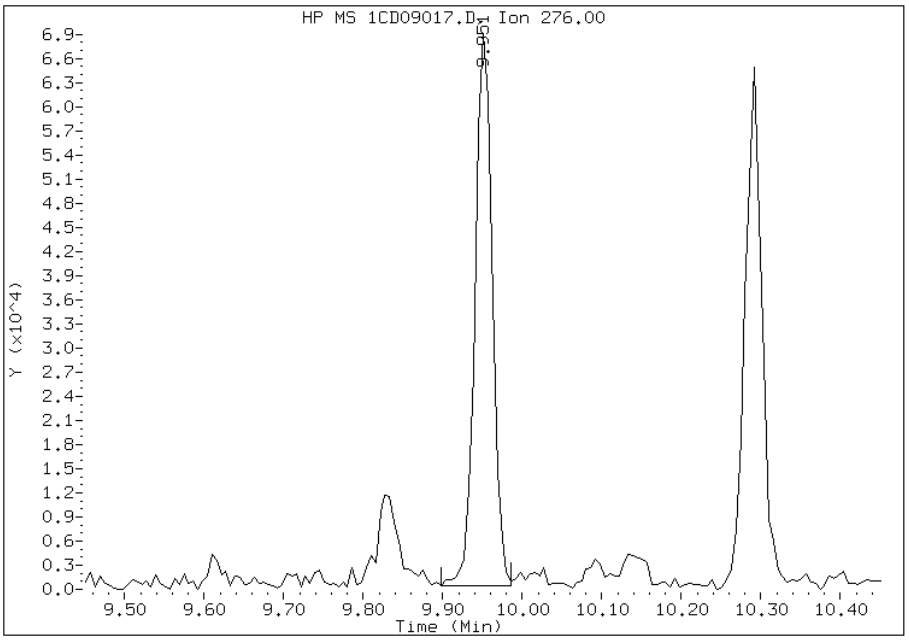
Processing Integration Results

RT: 9.95

Response: 102429

Amount: 7

Conc: 2424



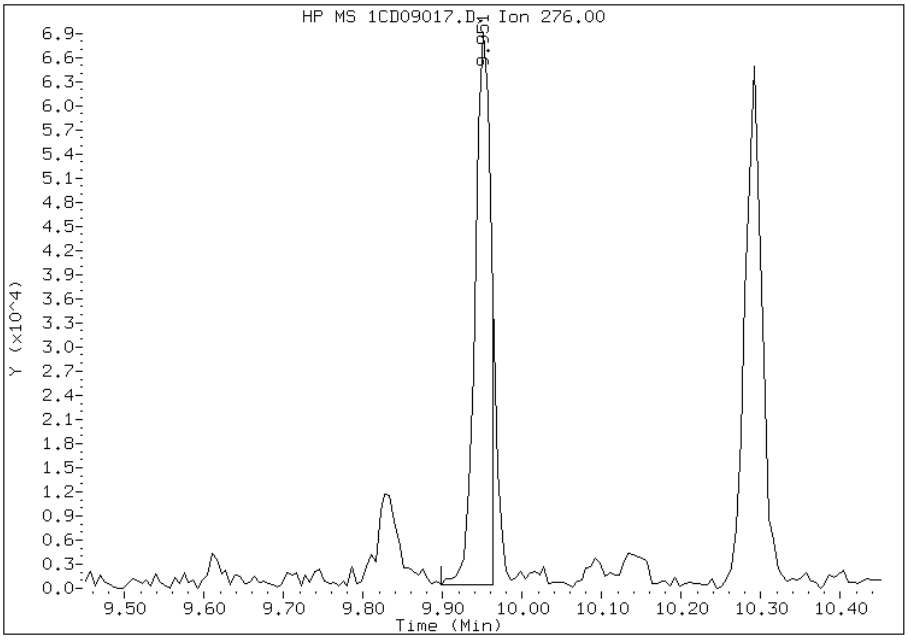
Manual Integration Results

RT: 9.95

Response: 94580

Amount: 7

Conc: 2238



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1119B-CS | Lab Sample ID: 680-88811-45

Matrix: Solid | Lab File ID: 1CD09021.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:25

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.05(g) | Date Analyzed: 04/09/2013 17:21

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

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

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	93
208-96-8	Acenaphthylene	450		190	23
120-12-7	Anthracene	430		39	19
56-55-3	Benzo[a]anthracene	1100		37	18
50-32-8	Benzo[a]pyrene	790		48	24
205-99-2	Benzo[b]fluoranthene	1300		57	28
191-24-2	Benzo[g,h,i]perylene	570		93	20
207-08-9	Benzo[k]fluoranthene	770		37	17
218-01-9	Chrysene	1300		42	21
53-70-3	Dibenz(a,h)anthracene	220		93	19
206-44-0	Fluoranthene	2800		93	19
86-73-7	Fluorene	360		93	19
193-39-5	Indeno[1,2,3-cd]pyrene	570		93	33
90-12-0	1-Methylnaphthalene	430		190	20
91-57-6	2-Methylnaphthalene	370		190	33
91-20-3	Naphthalene	470		190	20
85-01-8	Phenanthrene	2700		37	18
129-00-0	Pyrene	2500		93	17

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09021.D
Lab Smp Id: 680-88811-A-45-A Client Smp ID: CV1119B-CS
Inj Date : 09-APR-2013 17:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-45-a
Misc Info : 680-88811-A-45-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.050	Weight Extracted
M	14.014	% 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	3.686	3.686	(1.000)	422028	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	306849	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	567559	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	9477	1.74838	540.4218
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	590594	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	562572	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	16454	1.51794	469.1927
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	8941	1.21172	374.5414
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	9205	1.38641	428.5378
	5 Acenaphthylene	152	4.686	4.686	(0.982)	18390	1.44806	447.5939
	9 Fluorene	166	5.110	5.110	(1.070)	12124	1.15622	357.3857
	11 Phenanthrene	178	5.733	5.733	(1.003)	142791	8.63832	2670.0916
	12 Anthracene	178	5.768	5.768	(1.009)	23281	1.38937	429.4520
	13 Carbazole	167	5.874	5.874	(1.028)	11639	0.81074	250.5977

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	162492	8.90111	2751.3196
16 Pyrene	202	6.733	6.733	(0.879)	129964	7.94405	2455.4958
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	60509	3.67160	1134.8861
19 Chrysene	228	7.674	7.674	(1.002)	69904	4.15370	1283.9015
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	65327	4.10748	1269.6171(M)
21 Benzo(k)fluoranthene	252	8.492	8.509	(0.963)	38275	2.48823	769.1090(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	38205	2.55149	788.6615
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	26337	1.85184	572.4003(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.974	(1.130)	9443	0.71876	222.1684
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	26792	1.84577	570.5252

QC Flag Legend

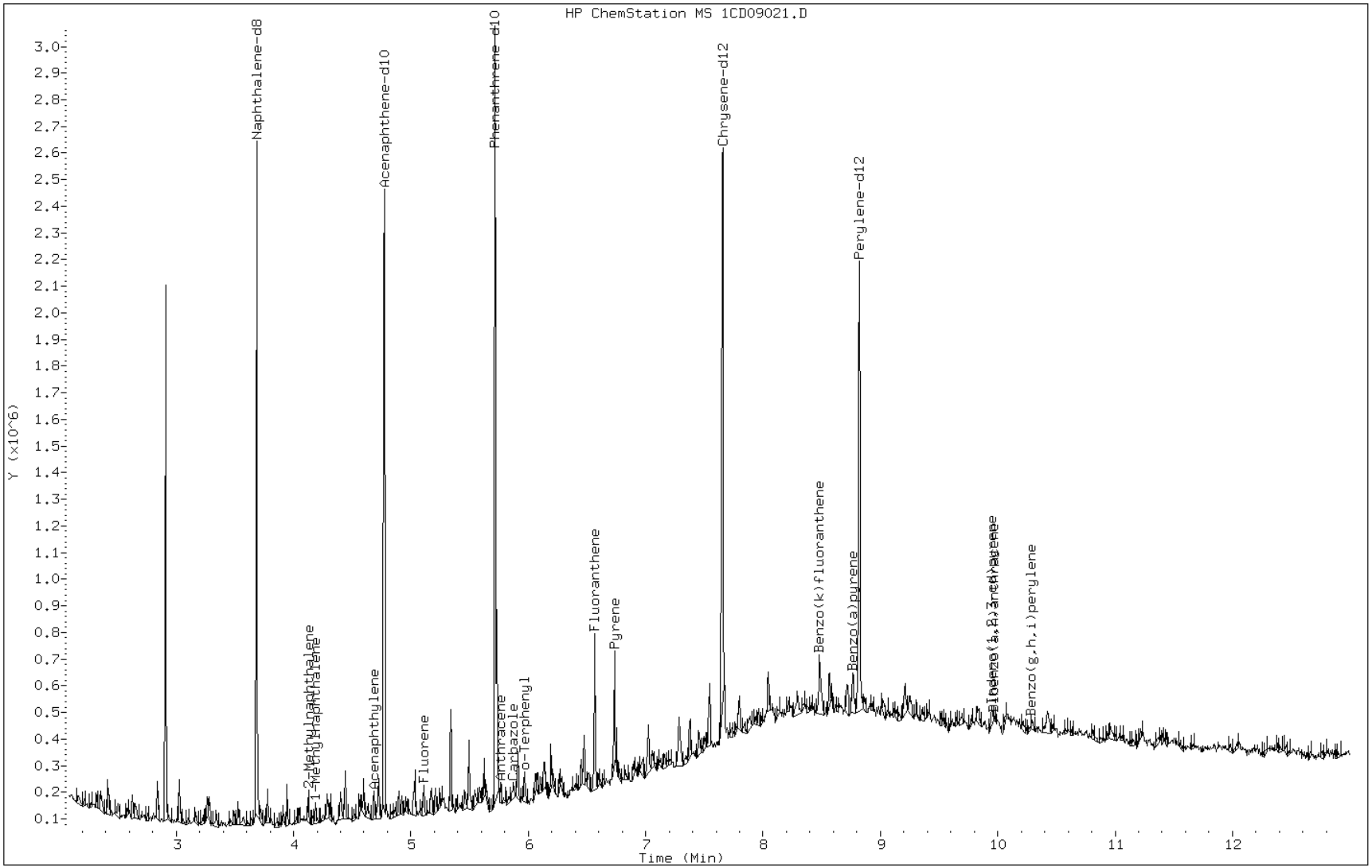
M - Compound response manually integrated.

Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC



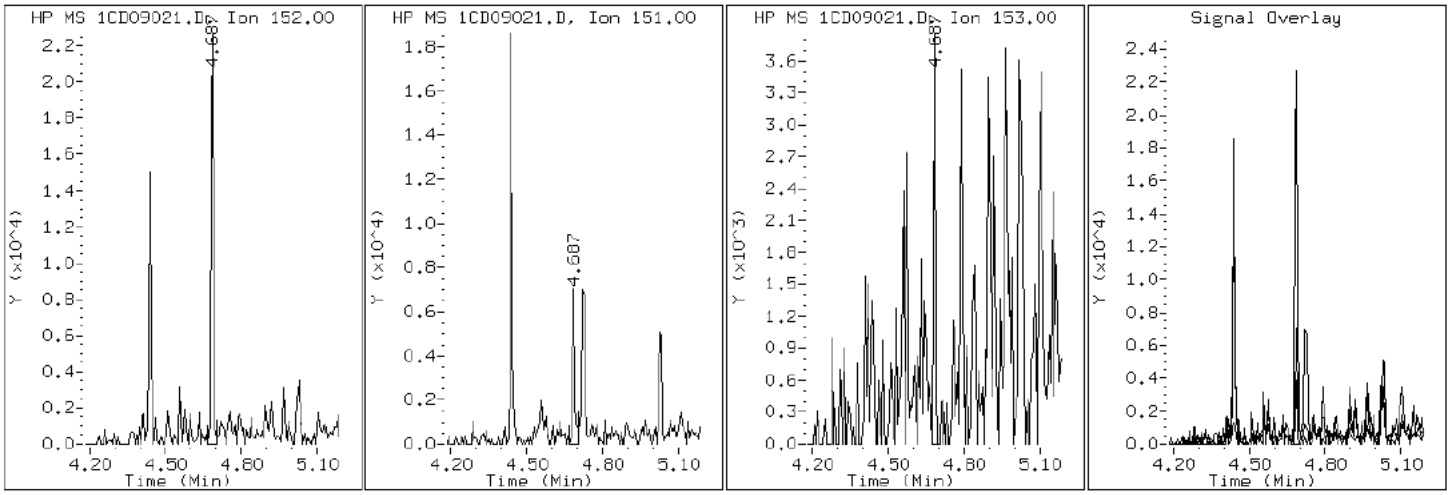
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

5 Acenaphthylene



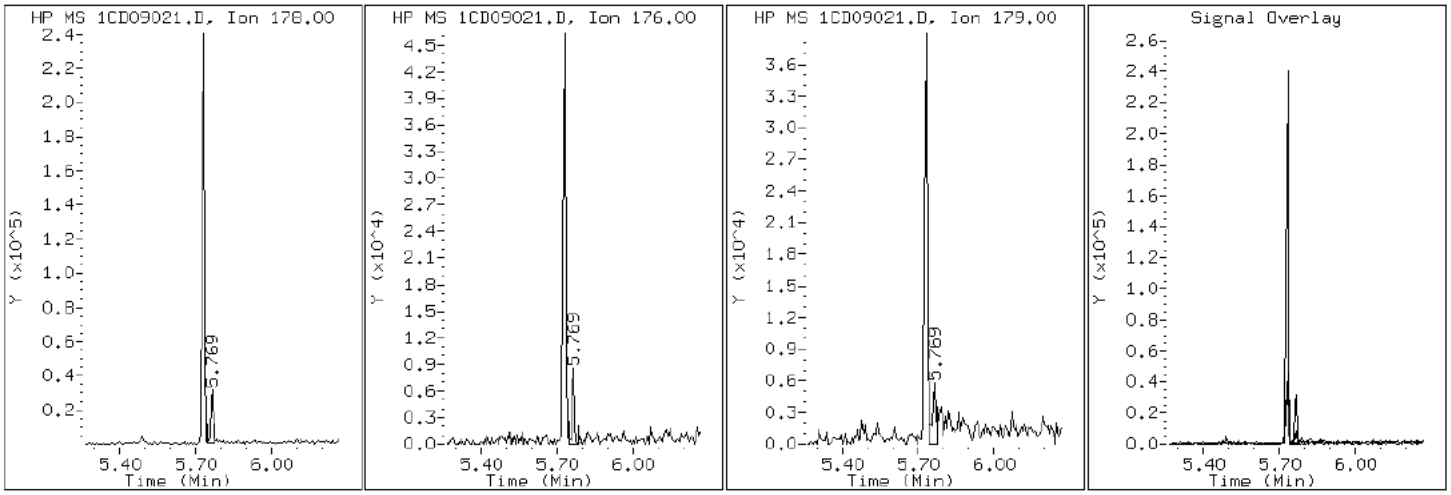
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

12 Anthracene



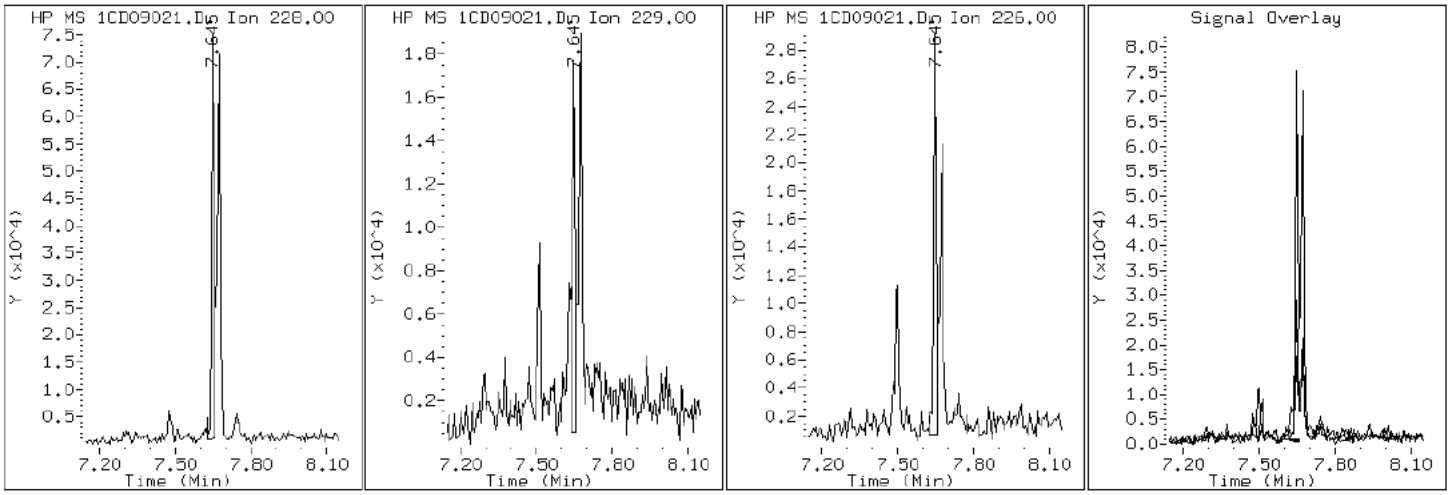
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

17 Benzo(a)anthracene



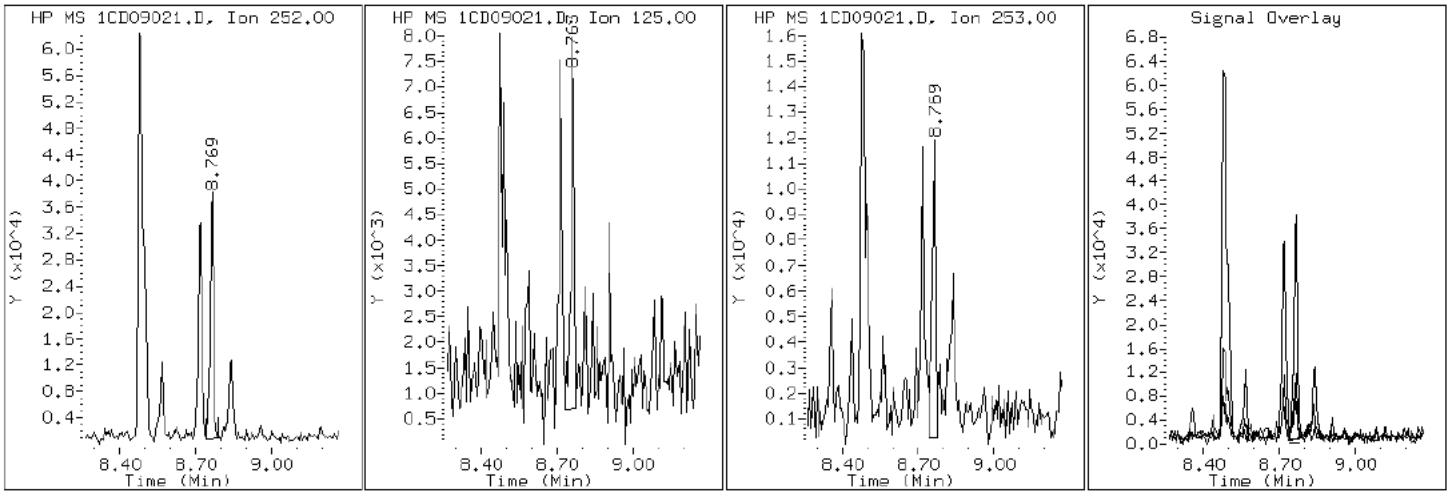
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

22 Benzo(a)pyrene



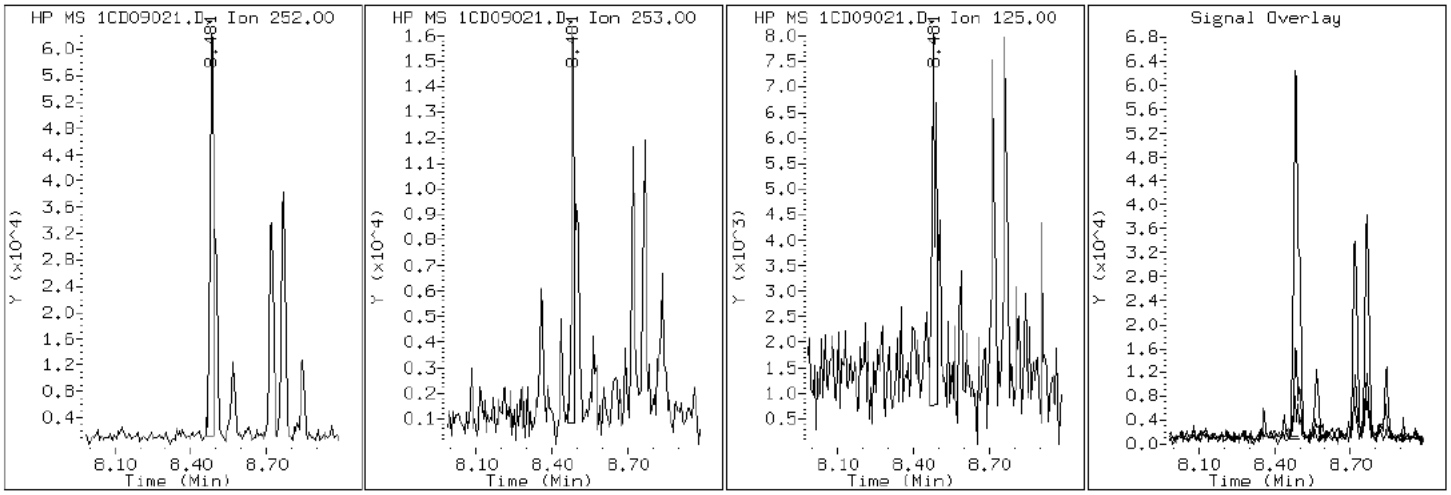
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

20 Benzo(b)fluoranthene



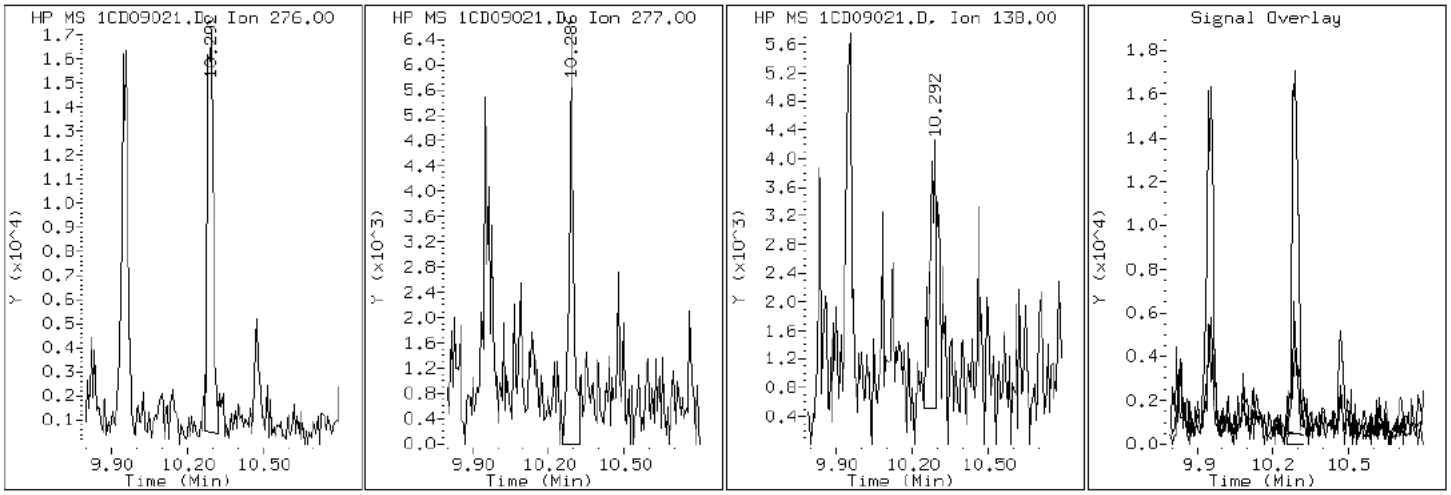
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

26 Benzo(g,h,i)perylene



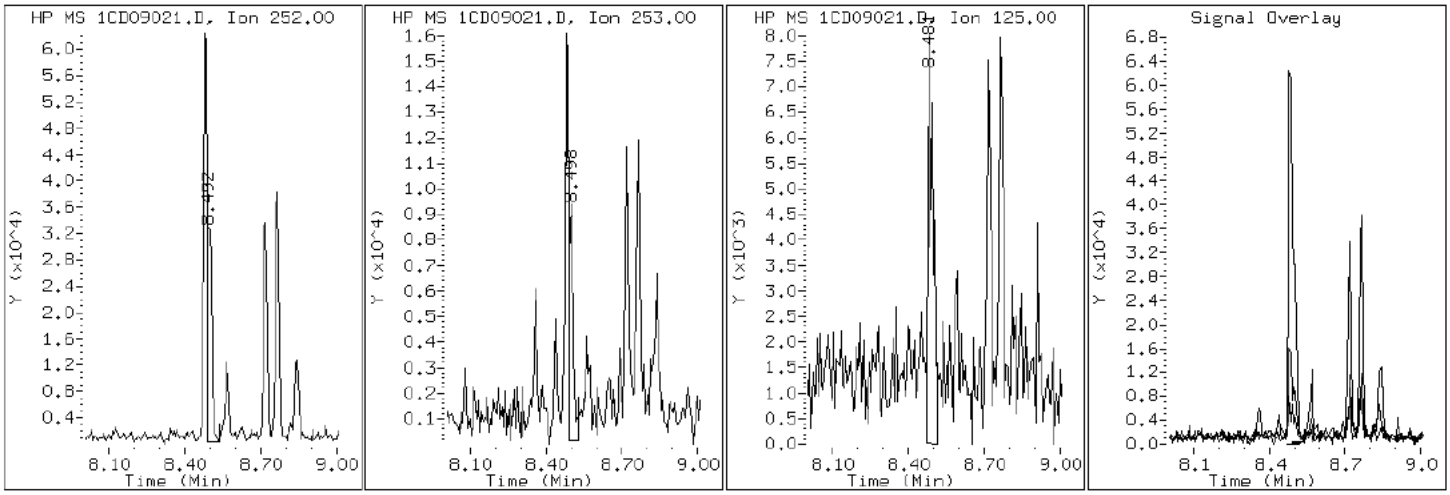
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

21 Benzo(k)fluoranthene



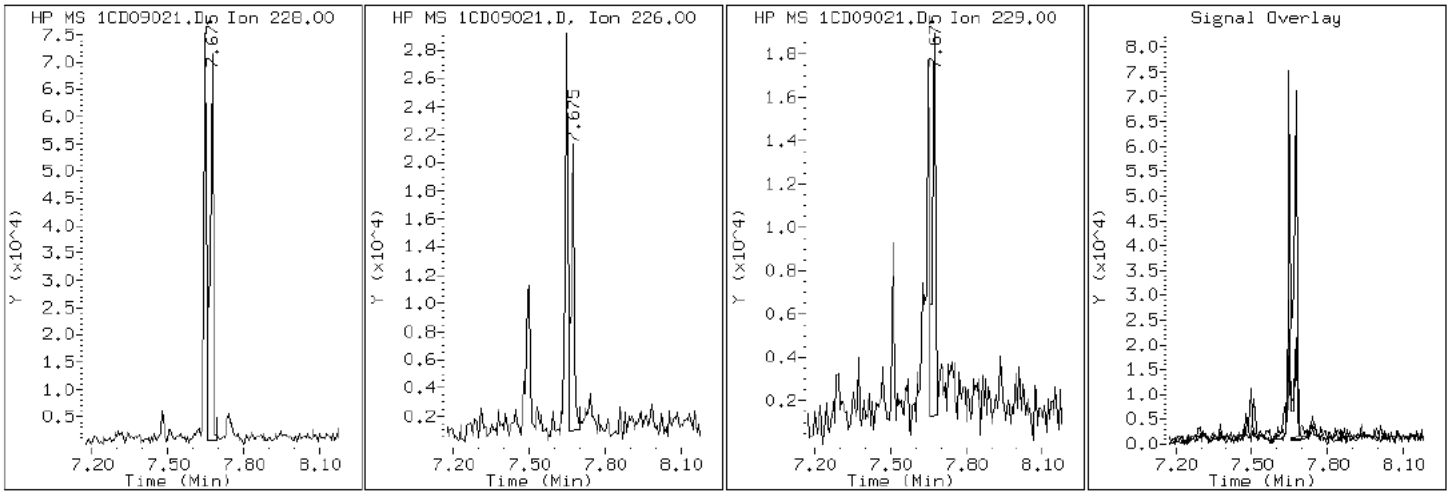
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

19 Chrysene



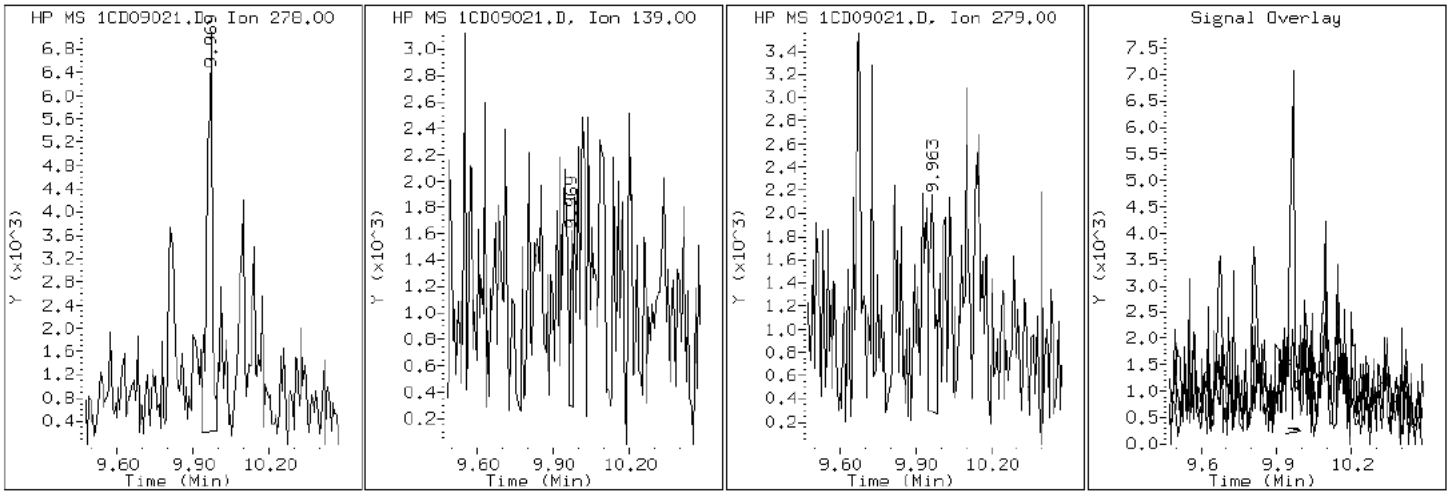
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

25 Dibenzo(a,h)anthracene



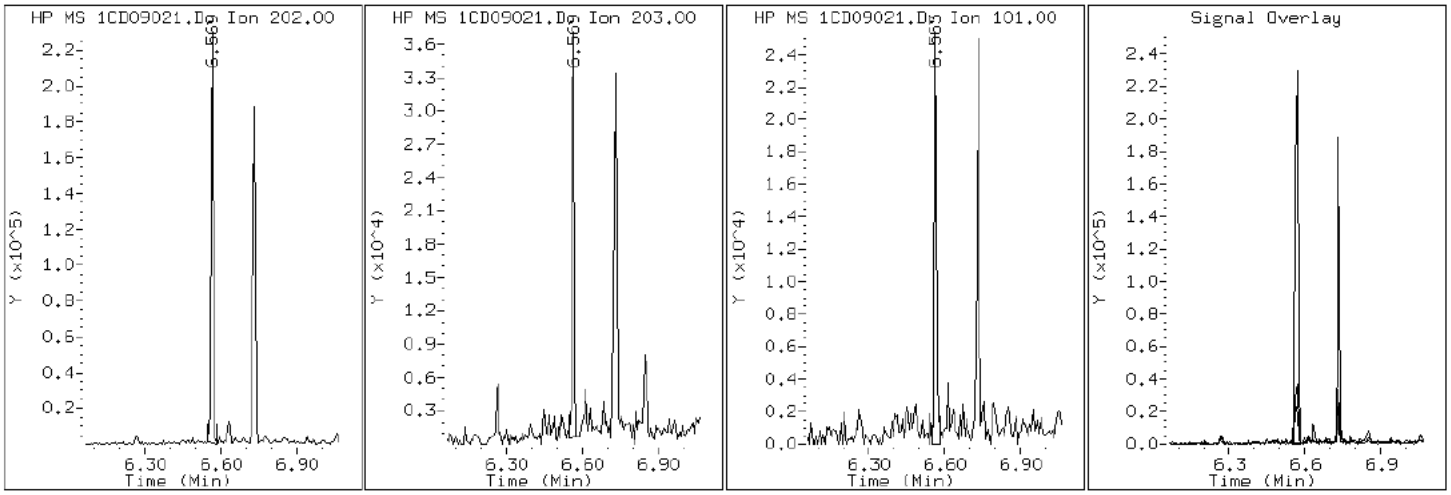
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

15 Fluoranthene



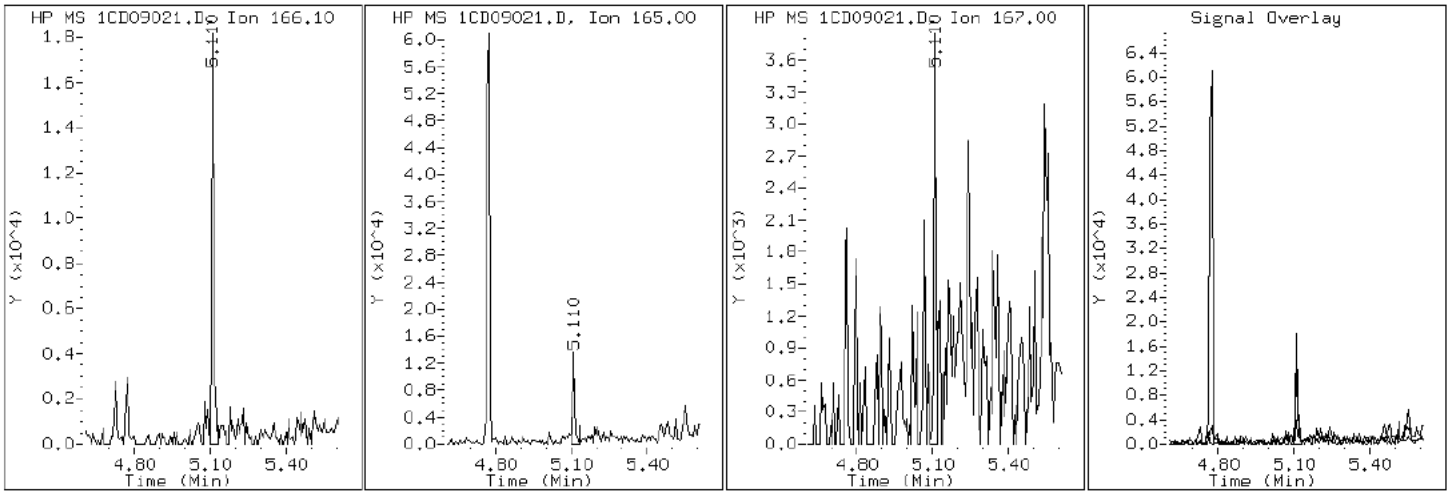
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

9 Fluorene



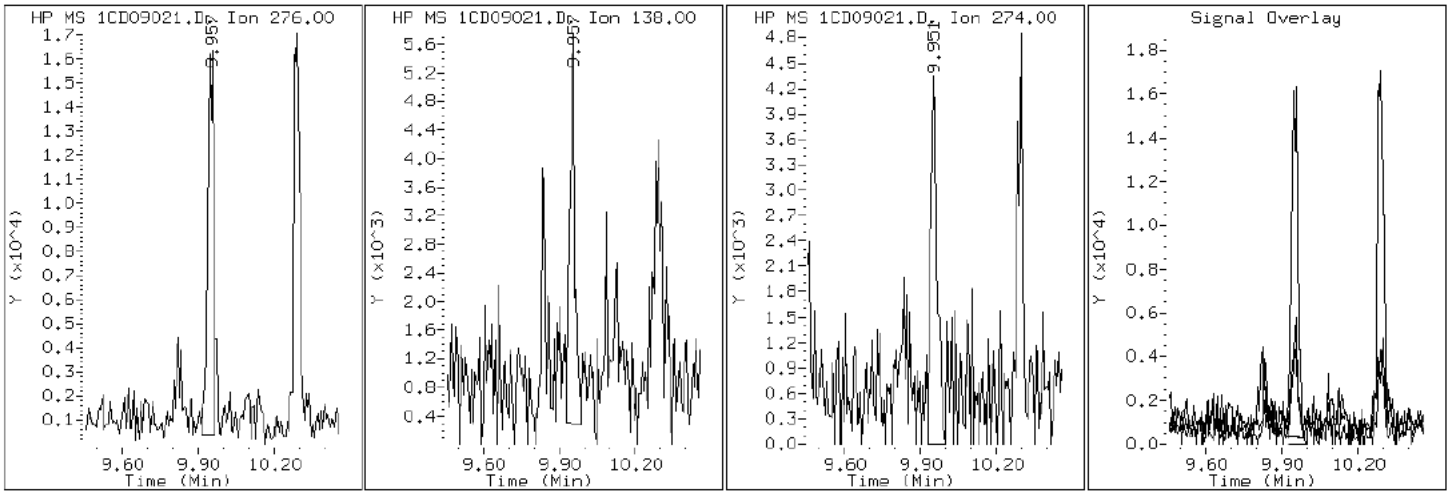
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

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



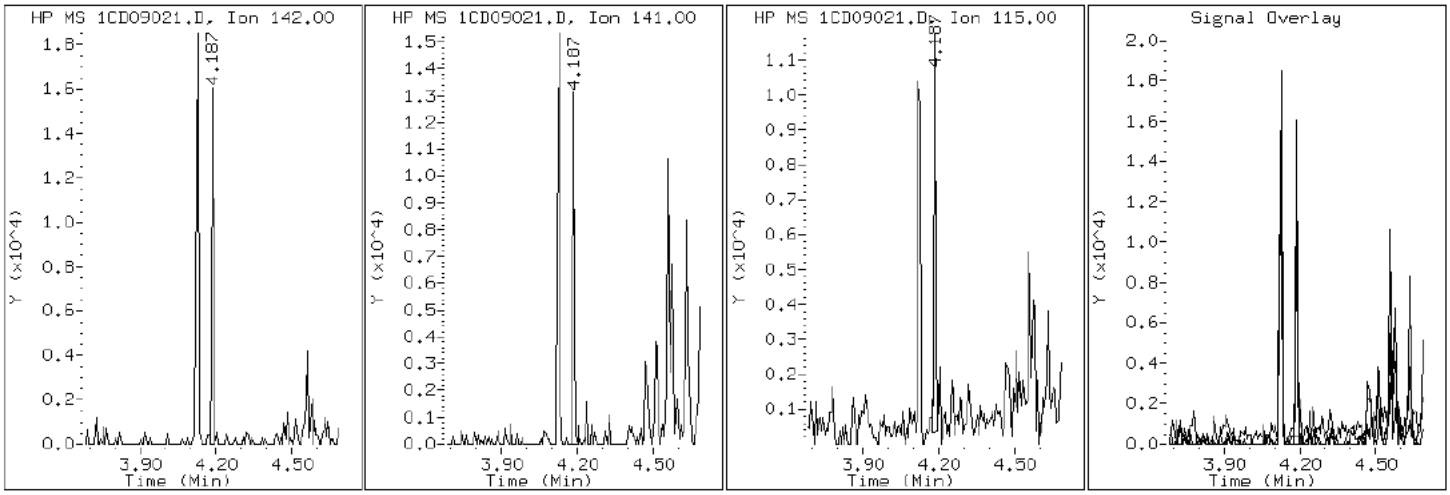
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

4 1-Methylnaphthalene



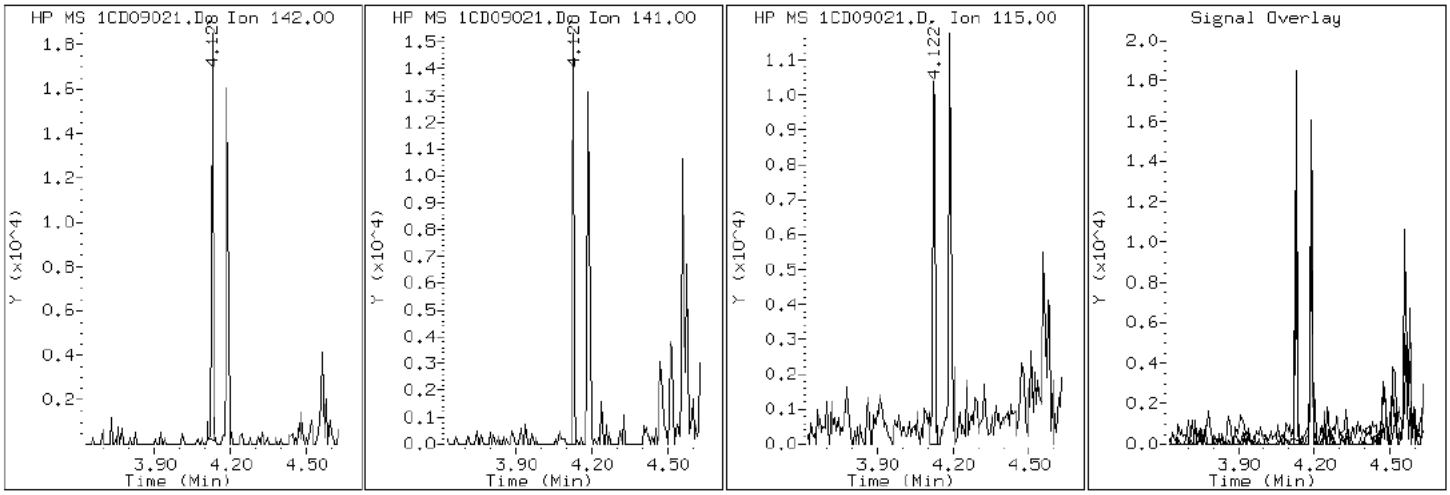
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

3 2-Methylnaphthalene



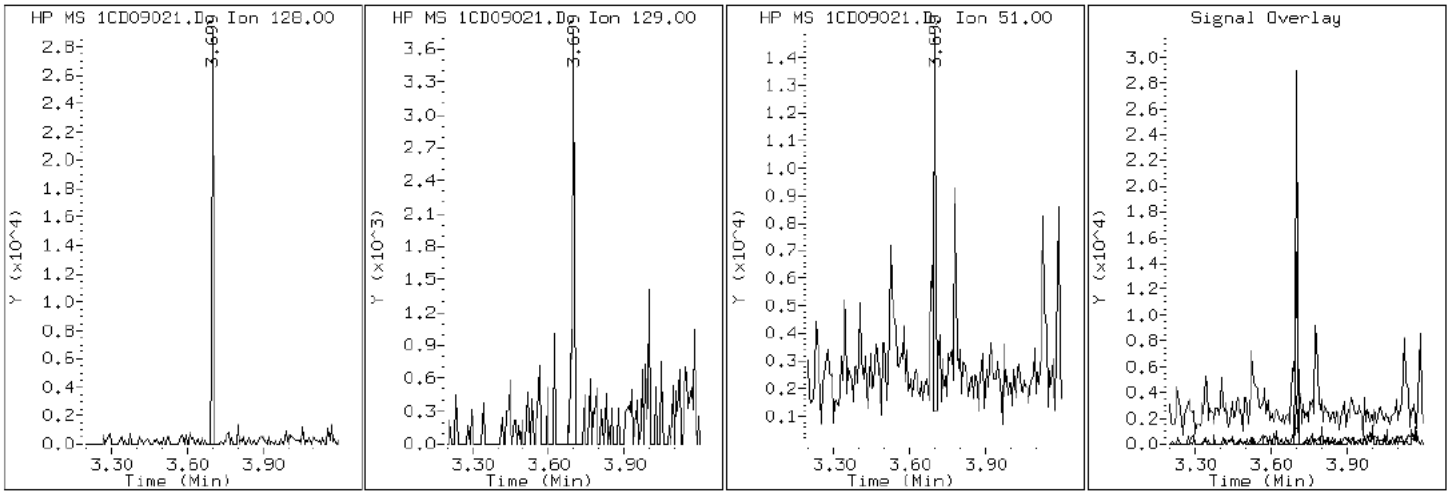
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

2 Naphthalene



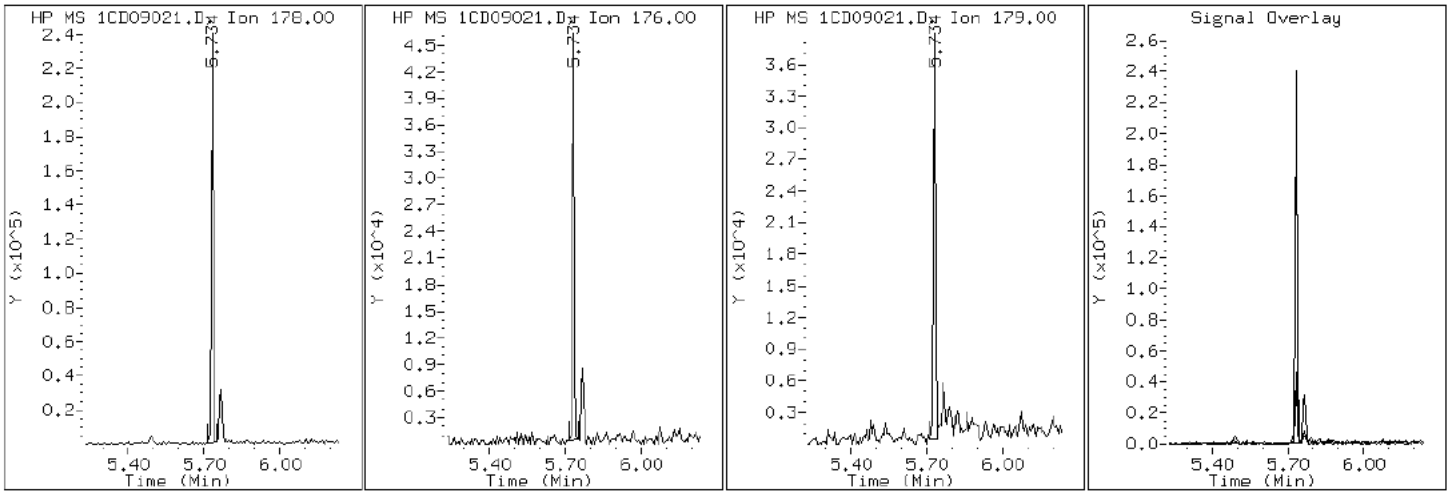
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

11 Phenanthrene



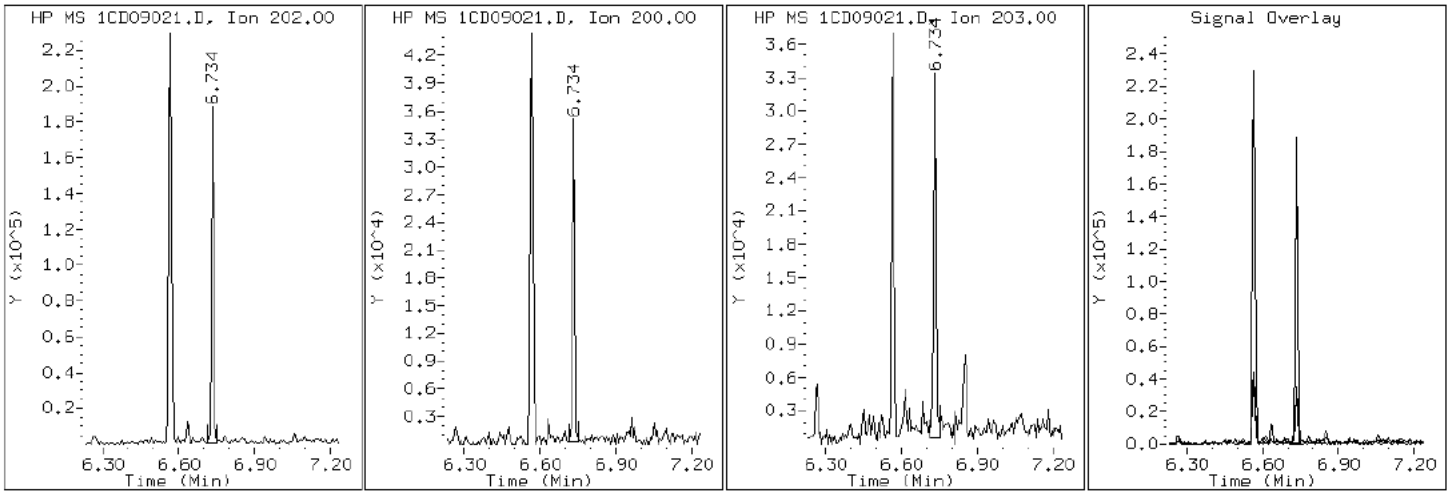
Data File: 1CD09021.D

Date: 09-APR-2013 17:21

Client ID: CV1119B-CS Instrument: BSMC5973.i

Sample Info: 680-88811-a-45-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09021.D
Inj. Date and Time: 09-APR-2013 17:21
Instrument ID: BSMC5973.i
Client ID: CV1119B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

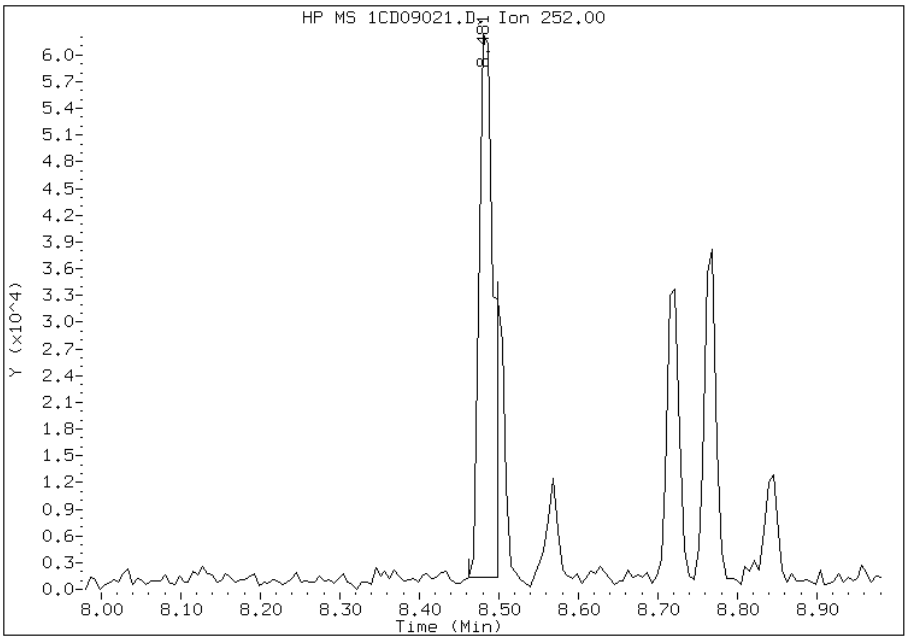
Processing Integration Results

RT: 8.48

Response: 76293

Amount: 5

Conc: 1483



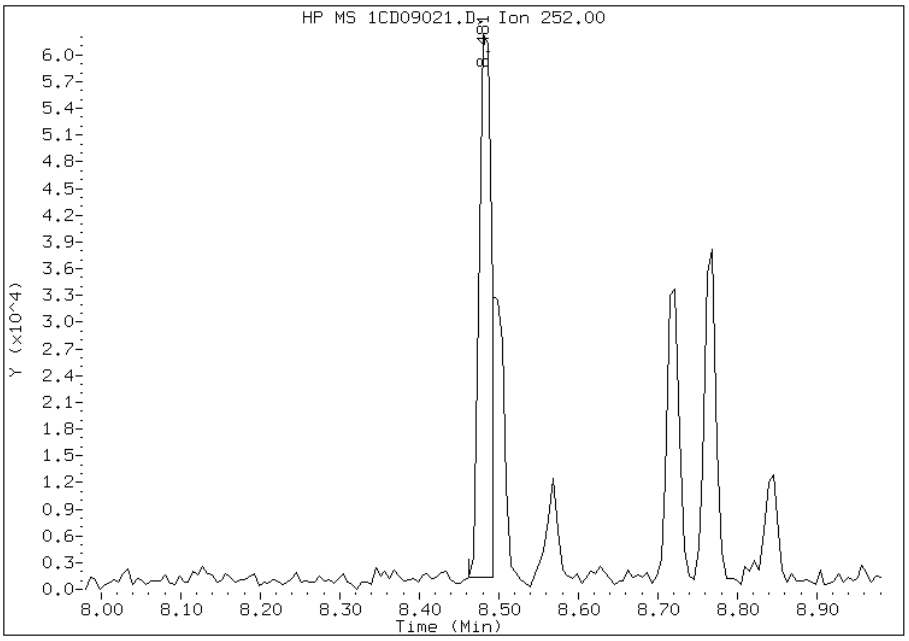
Manual Integration Results

RT: 8.48

Response: 65327

Amount: 4

Conc: 1270



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09021.D
Inj. Date and Time: 09-APR-2013 17:21
Instrument ID: BSMC5973.i
Client ID: CV1119B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

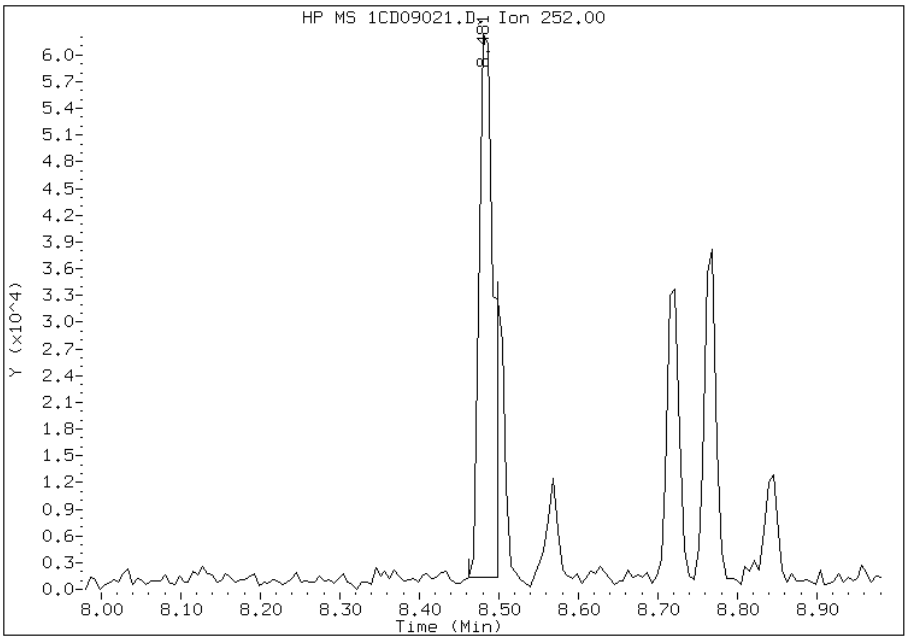
Processing Integration Results

RT: 8.48

Response: 76293

Amount: 5

Conc: 1533



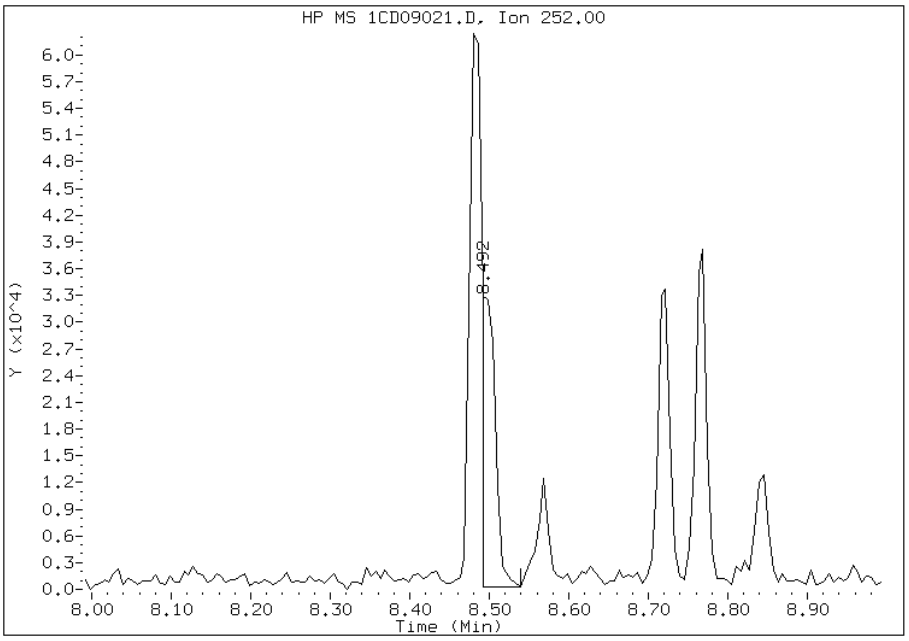
Manual Integration Results

RT: 8.49

Response: 38275

Amount: 2

Conc: 769



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09021.D
Inj. Date and Time: 09-APR-2013 17:21
Instrument ID: BSMC5973.i
Client ID: CV1119B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

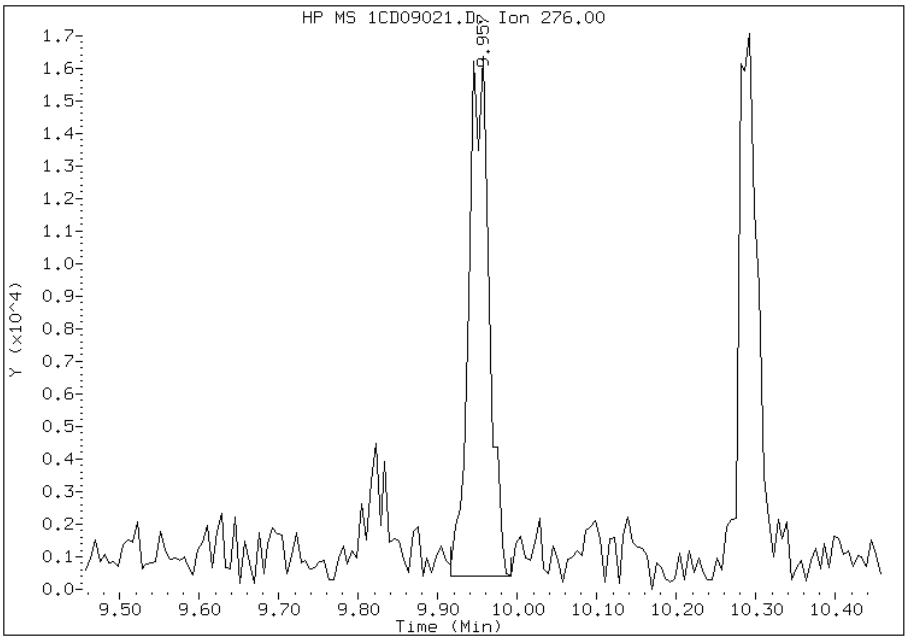
Processing Integration Results

RT: 9.96

Response: 28126

Amount: 2

Conc: 611



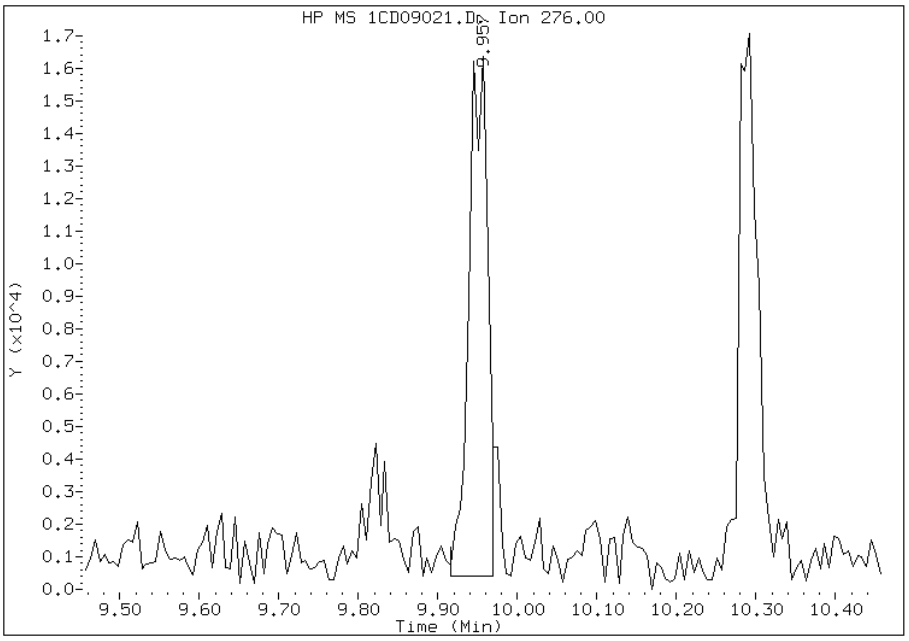
Manual Integration Results

RT: 9.96

Response: 26337

Amount: 2

Conc: 572



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1119C-GS | Lab Sample ID: 680-88811-46

Matrix: Solid | Lab File ID: 1CD09022.D

Analysis Method: 8270C LL | Date Collected: 03/28/2013 09:35

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.03(g) | Date Analyzed: 04/09/2013 17:39

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

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

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	140	J	200	25
120-12-7	Anthracene	150		43	21
56-55-3	Benzo[a]anthracene	850		41	20
50-32-8	Benzo[a]pyrene	650		53	26
205-99-2	Benzo[b]fluoranthene	1300		62	31
191-24-2	Benzo[g,h,i]perylene	530		100	22
207-08-9	Benzo[k]fluoranthene	340		41	18
218-01-9	Chrysene	1000		46	23
53-70-3	Dibenz(a,h)anthracene	140		100	21
206-44-0	Fluoranthene	1100		100	20
86-73-7	Fluorene	69	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	420		100	36
90-12-0	1-Methylnaphthalene	240		200	22
91-57-6	2-Methylnaphthalene	210		200	36
91-20-3	Naphthalene	250		200	22
85-01-8	Phenanthrene	500		41	20
129-00-0	Pyrene	1000		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09022.D
Lab Smp Id: 680-88811-A-46-A Client Smp ID: CV1119C-GS
Inj Date : 09-APR-2013 17:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-46-a
Misc Info : 680-88811-A-46-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	21.378	% 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	3.686	3.686	(1.000)	391065	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	299899	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	570444	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	14750	2.30952	781.7677
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	584722	40.0000	
*	23 Perylene-d12	264	8.821	8.827	(1.000)	554116	40.0000	
	2 Naphthalene	128	3.698	3.698	(1.003)	7403	0.73703	249.4812
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	4223	0.61763	209.0668
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	4387	0.71306	241.3700(Q)
	5 Acenaphthylene	152	4.686	4.686	(0.982)	4958	0.39945	135.2124
	9 Fluorene	166	5.110	5.110	(1.070)	2098	0.20471	69.2954
	11 Phenanthrene	178	5.733	5.733	(1.003)	24750	1.48971	504.2624
	12 Anthracene	178	5.768	5.768	(1.009)	7550	0.44829	151.7456
	13 Carbazole	167	5.880	5.874	(1.029)	4612	0.31963	108.1949

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	56938	3.10322	1050.4305
16 Pyrene	202	6.733	6.733	(0.879)	48999	3.02514	1024.0025
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	40160	2.50603	848.2842
19 Chrysene	228	7.674	7.674	(1.002)	49786	2.98799	1011.4272
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	62403	3.98351	1348.4071(M)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	15190	1.00256	339.3641(QM)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	28191	1.91144	647.0181
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	17485	1.24819	422.5077(M)
25 Dibenzo(a,h)anthracene	278	9.956	9.974	(1.129)	5416	0.41853	141.6728
26 Benzo(g,h,i)perylene	276	10.298	10.298	(1.167)	22510	1.57444	532.9430

QC Flag Legend

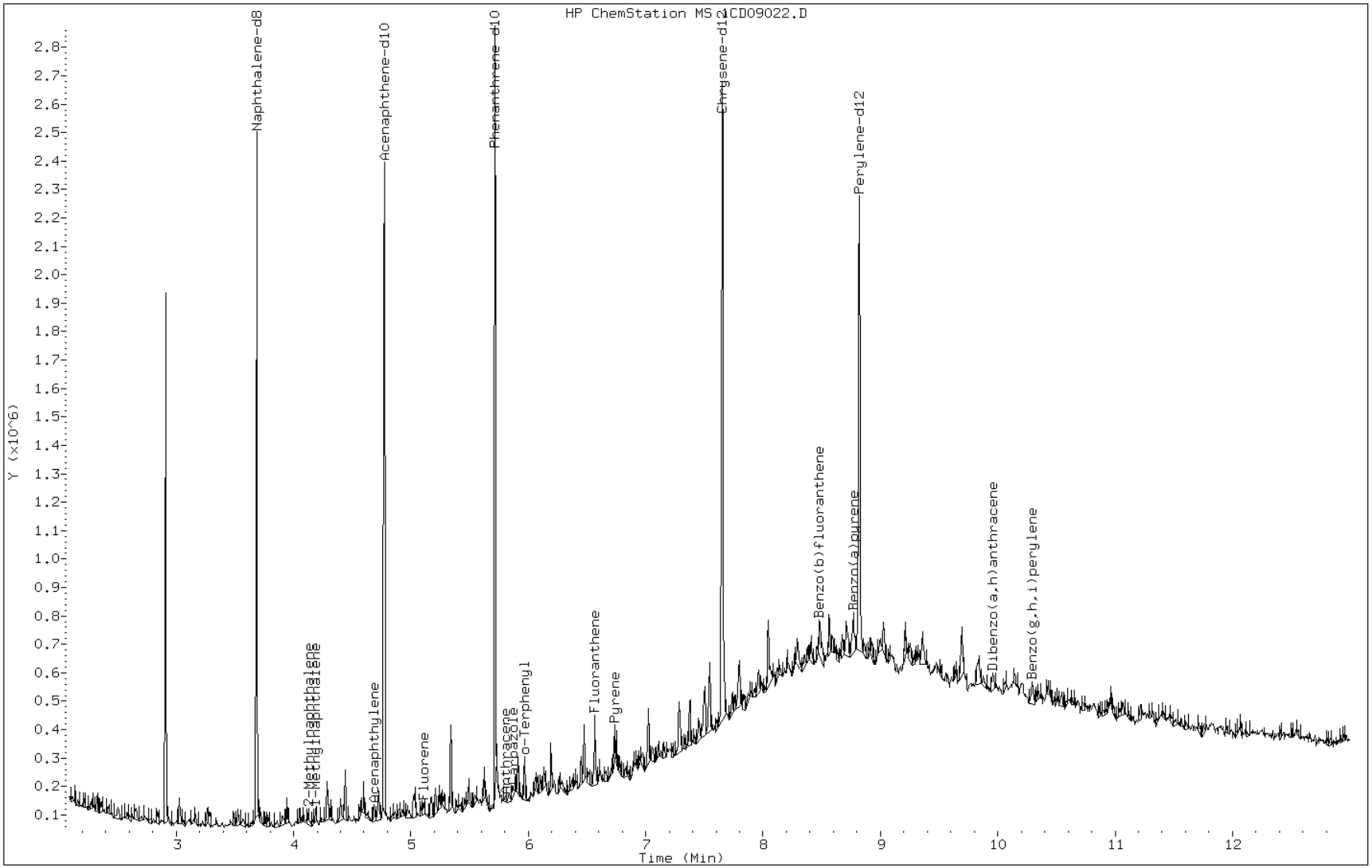
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC



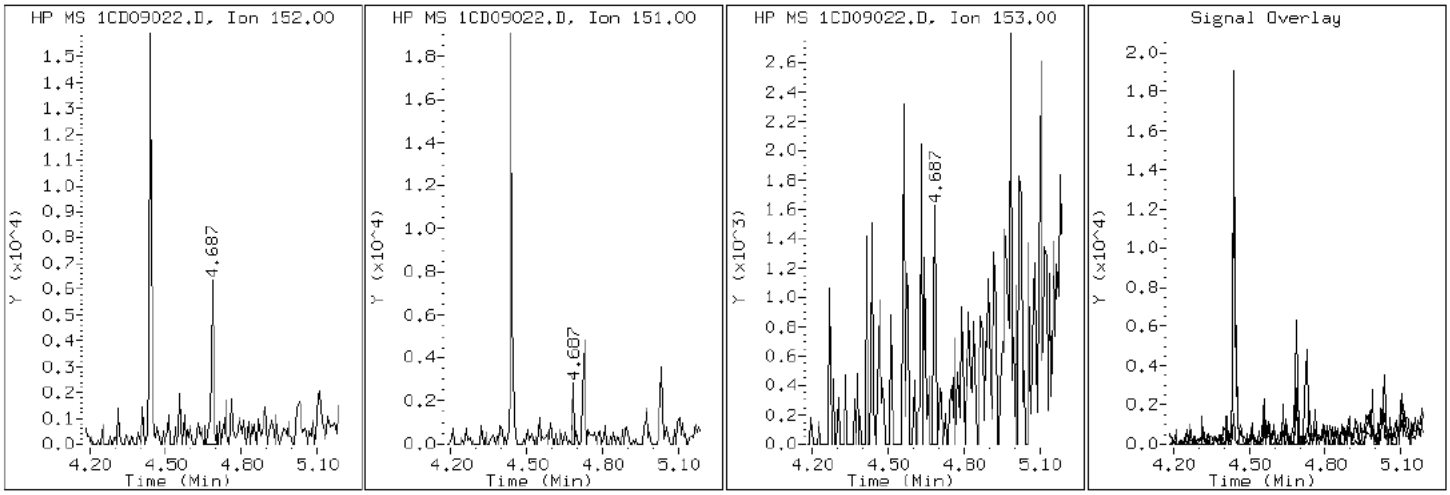
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

5 Acenaphthylene



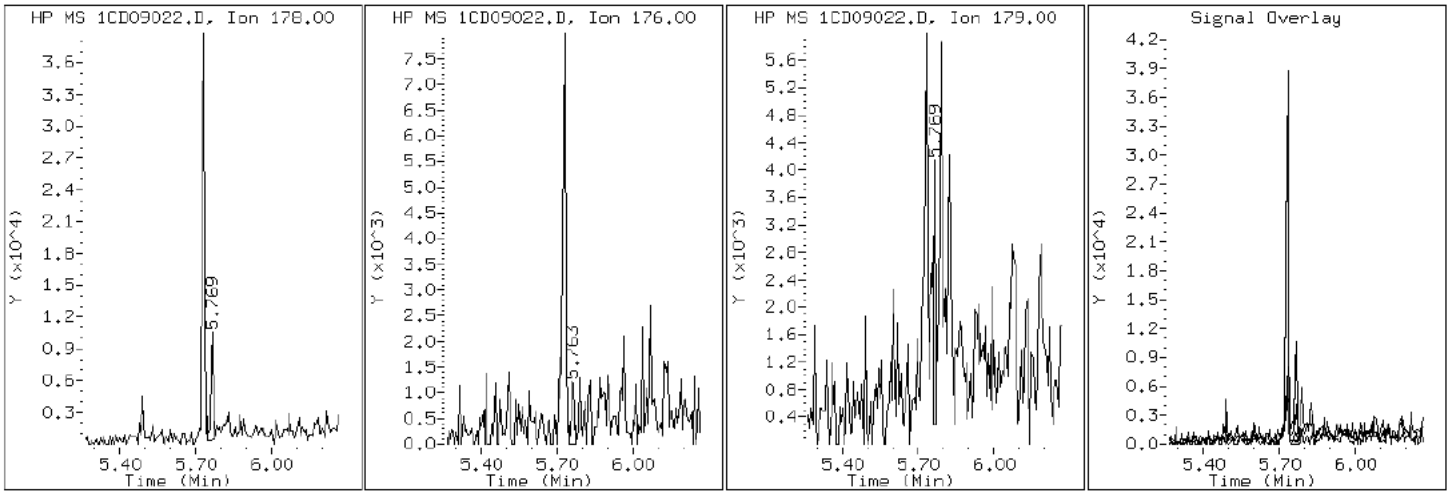
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

12 Anthracene



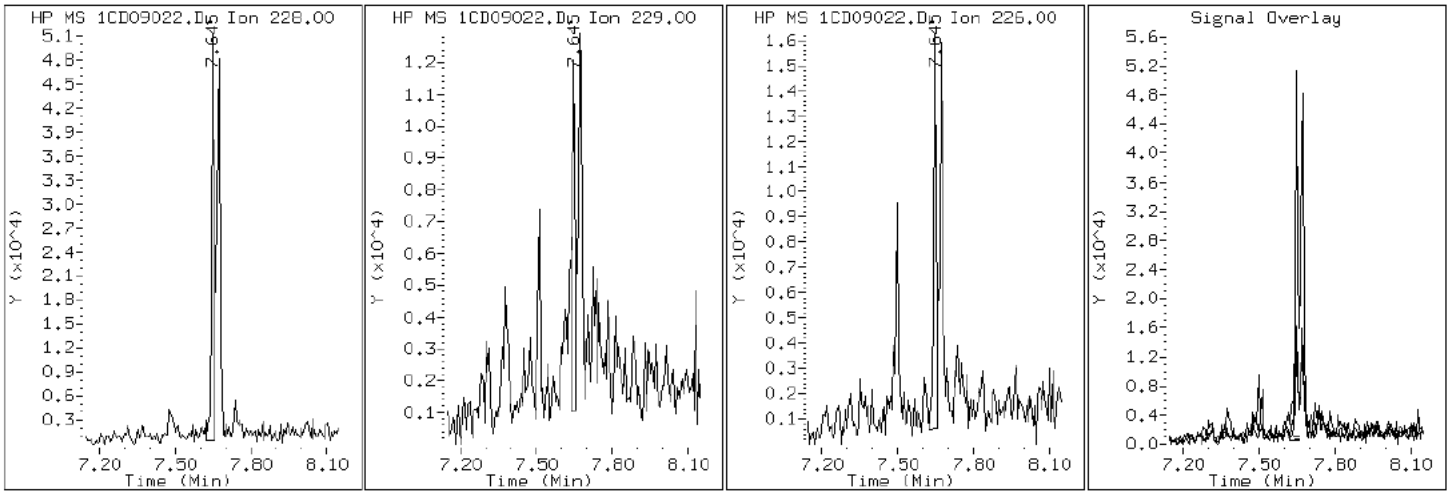
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

17 Benzo(a)anthracene



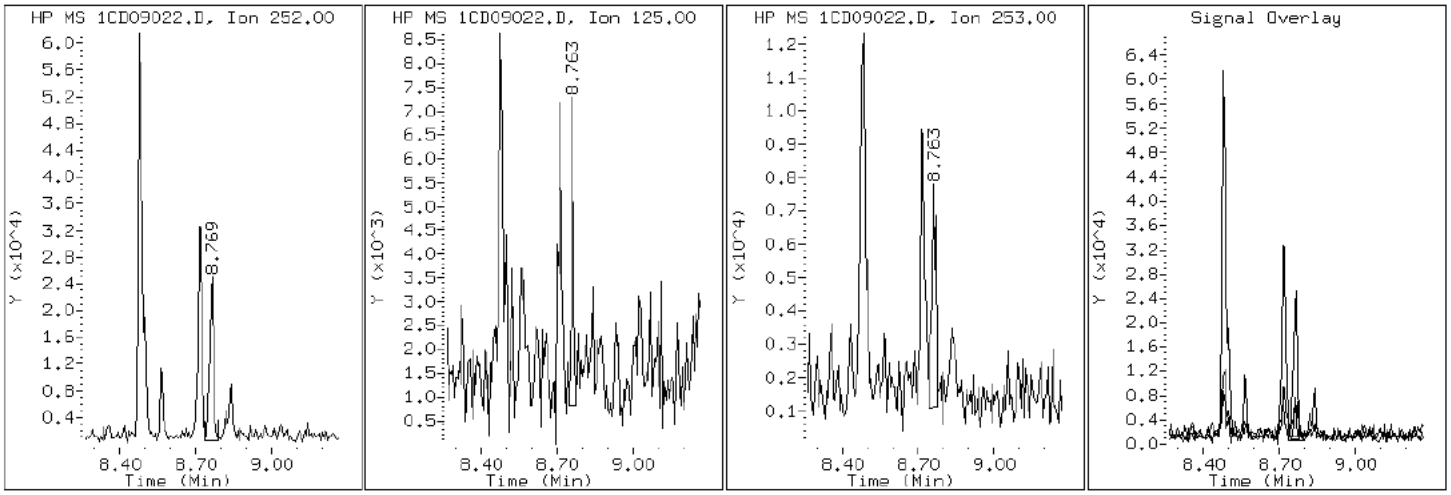
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

22 Benzo(a)pyrene



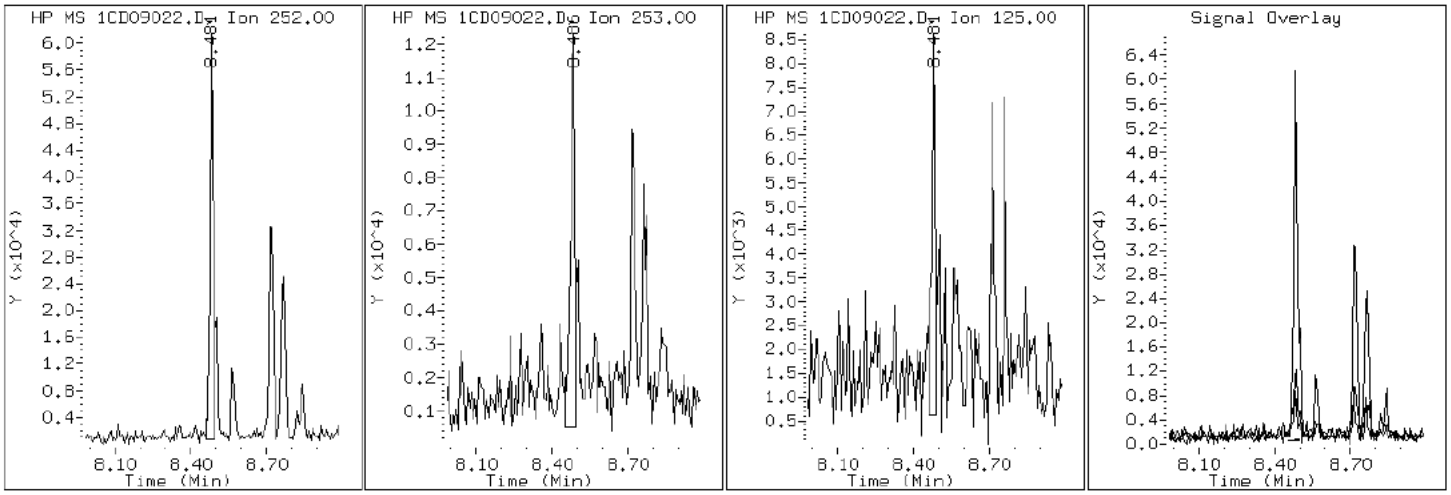
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

20 Benzo(b)fluoranthene



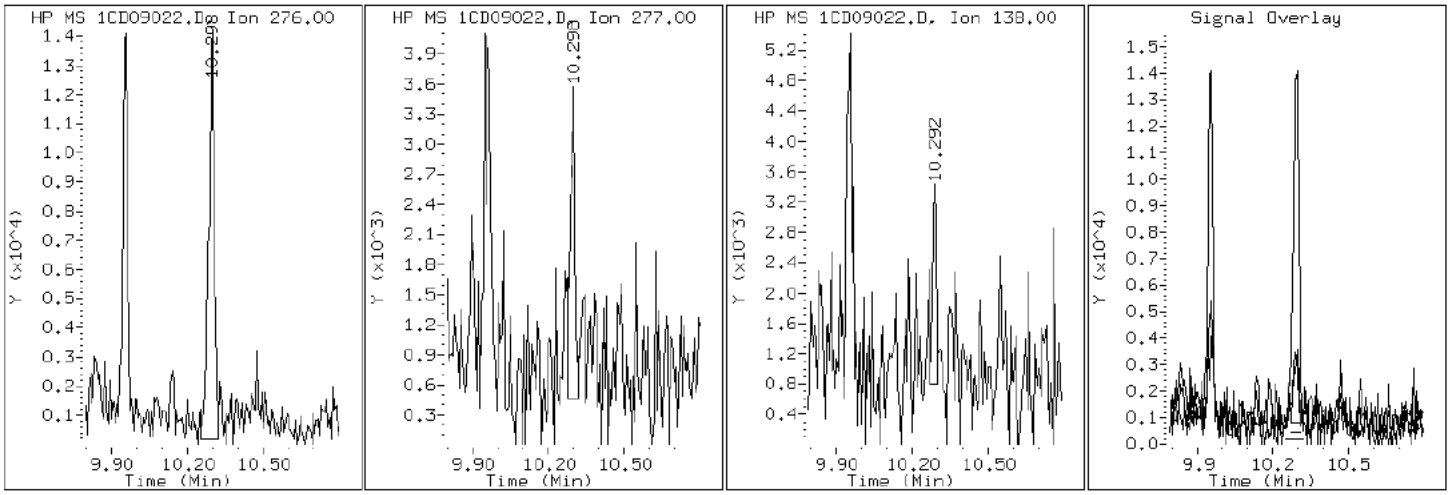
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

26 Benzo(g,h,i)perylene



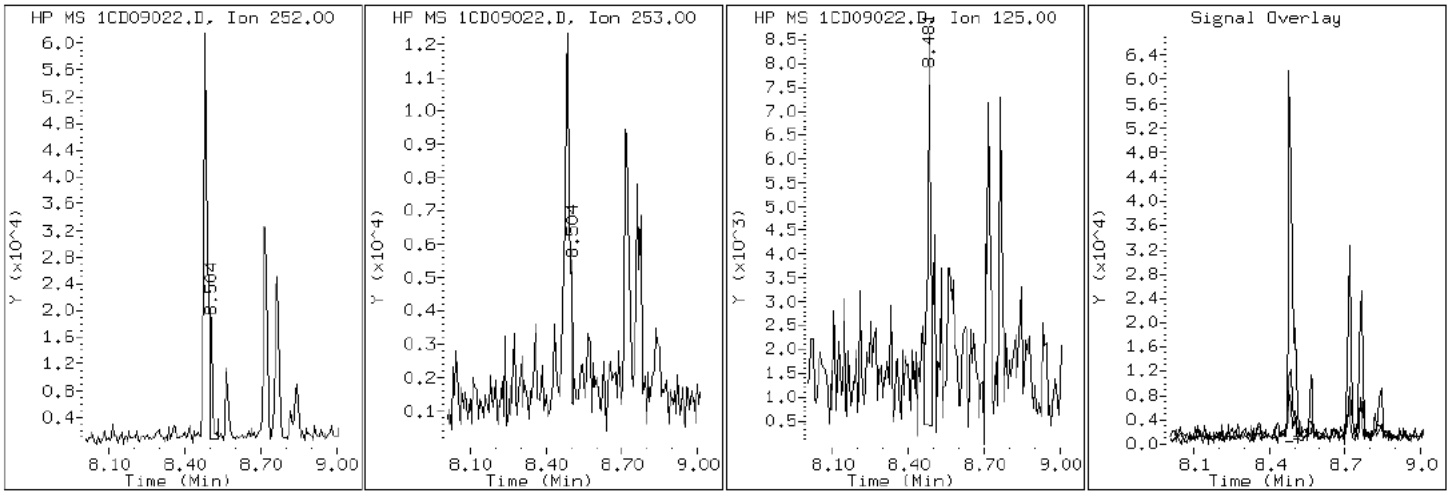
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

21 Benzo(k)fluoranthene



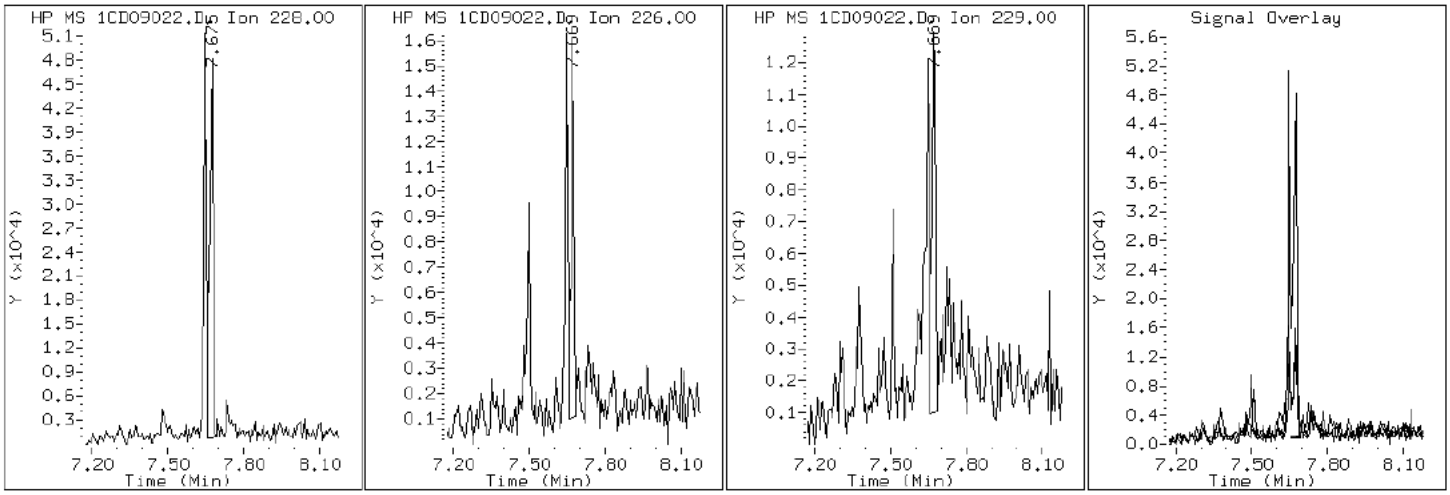
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

19 Chrysene



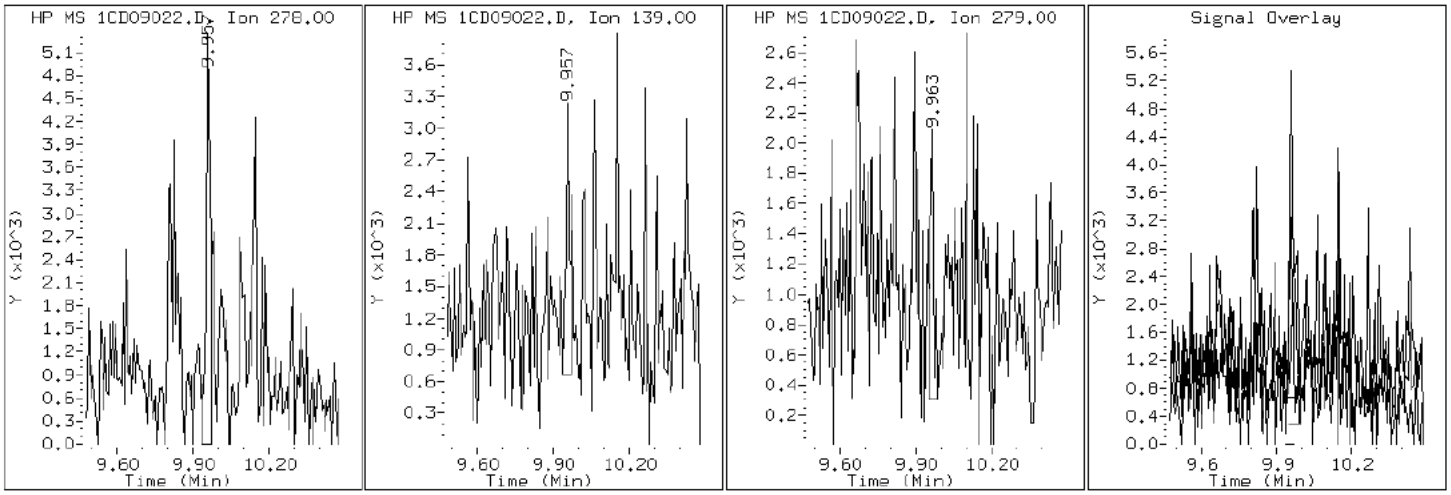
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

25 Dibenzo(a,h)anthracene



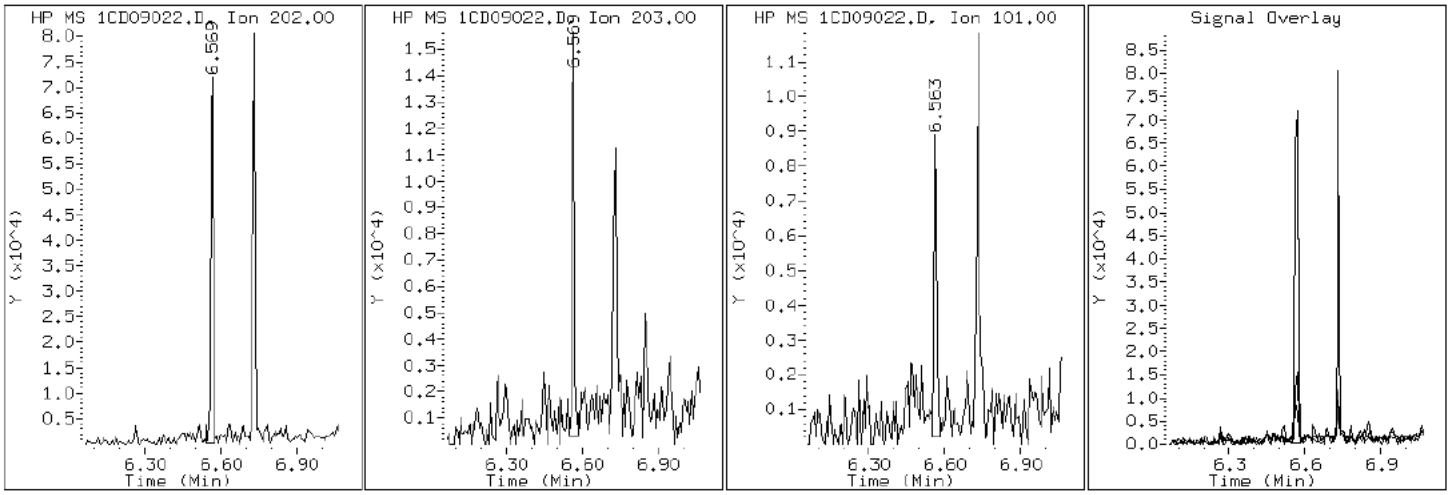
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

15 Fluoranthene



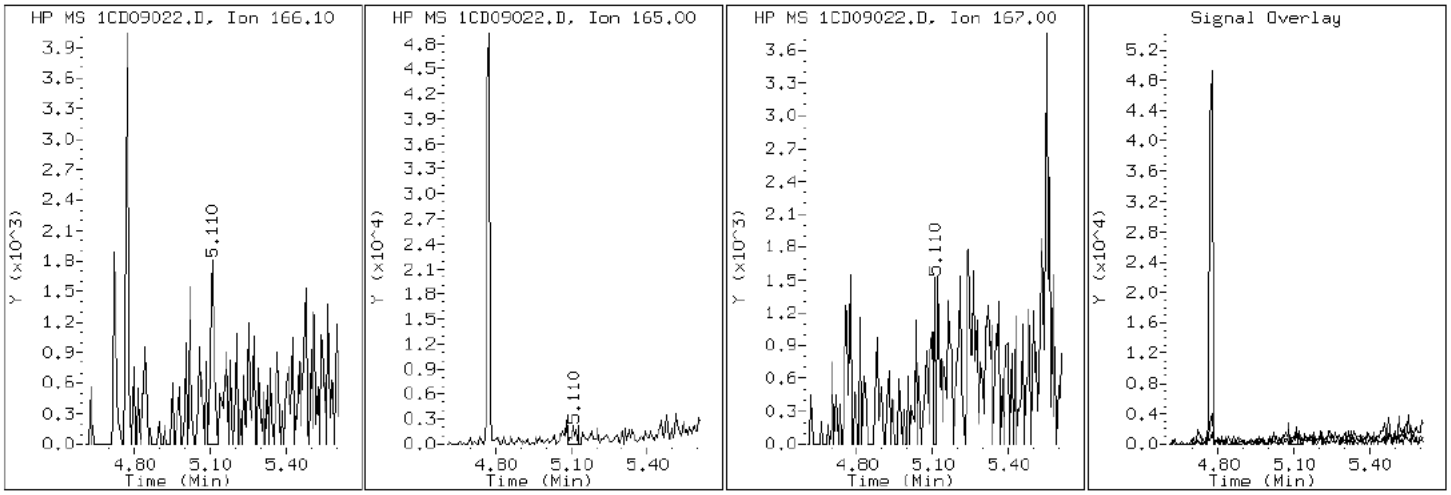
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

9 Fluorene



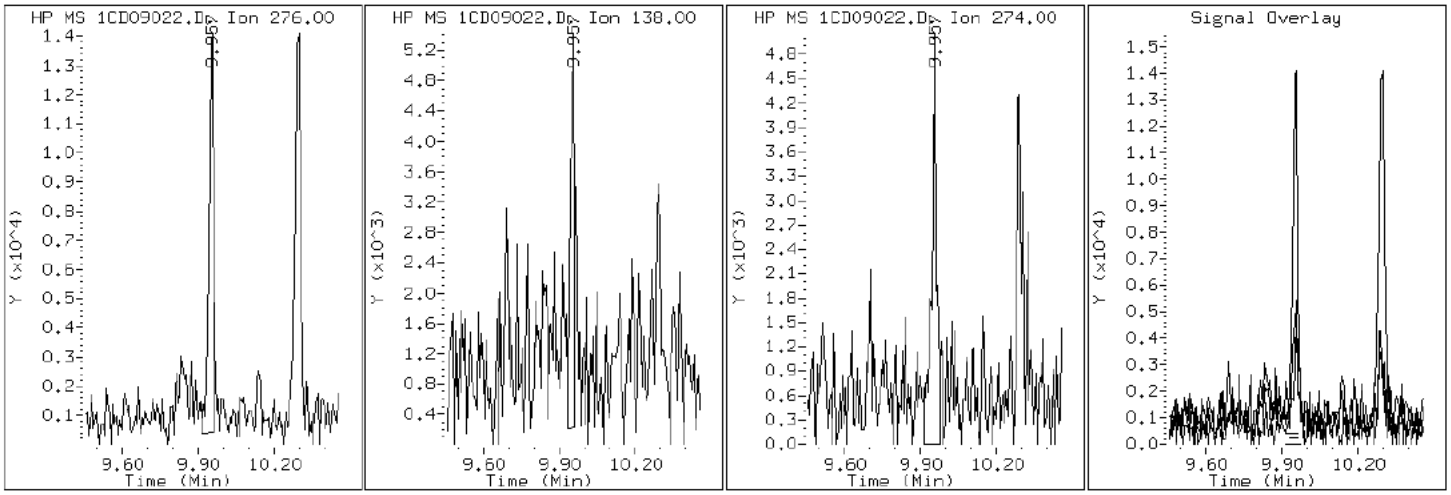
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

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



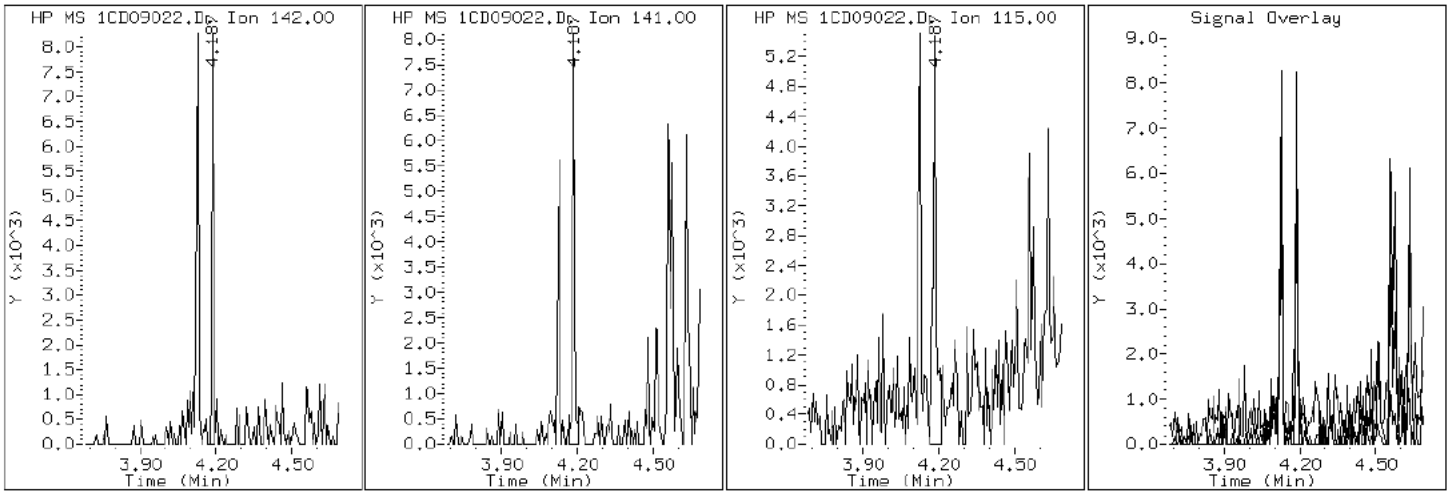
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

4 1-Methylnaphthalene



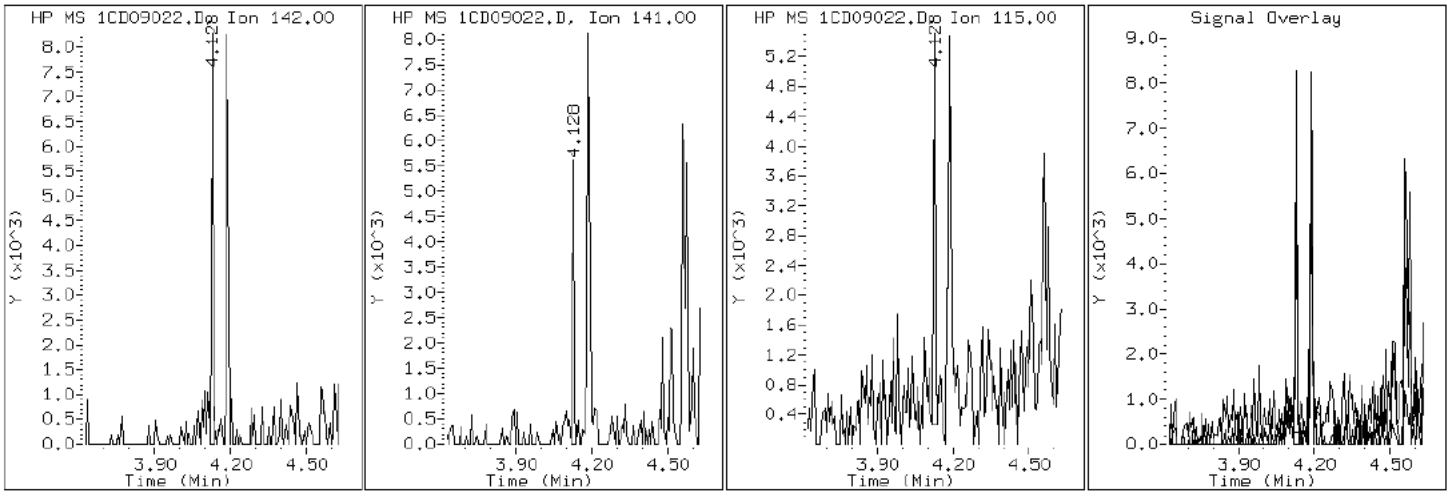
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

3 2-Methylnaphthalene



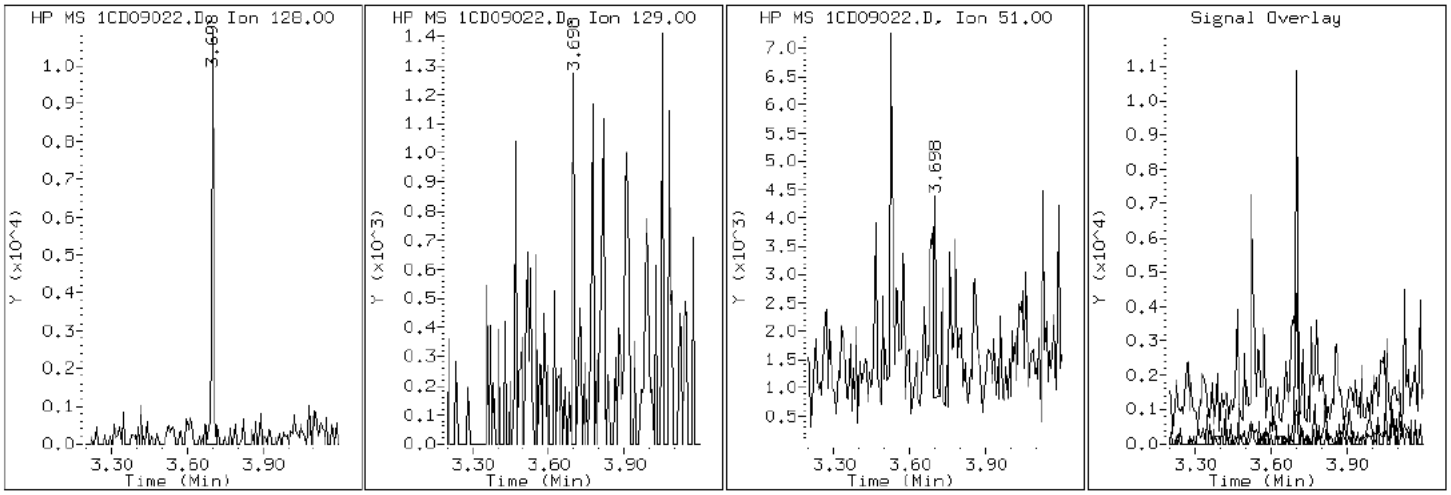
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

2 Naphthalene



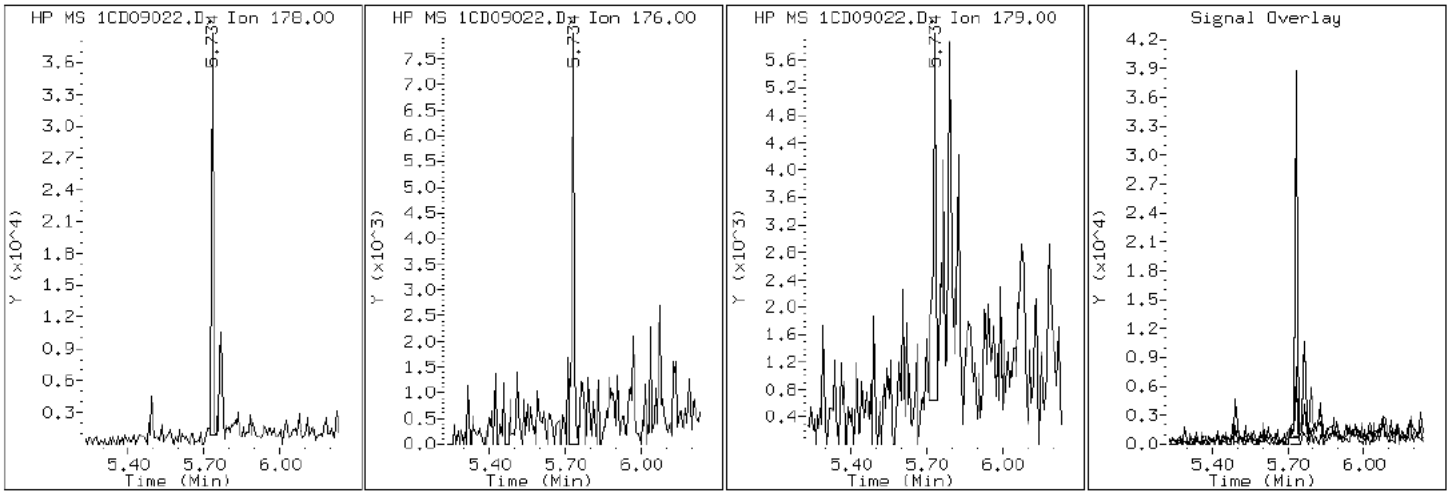
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

11 Phenanthrene



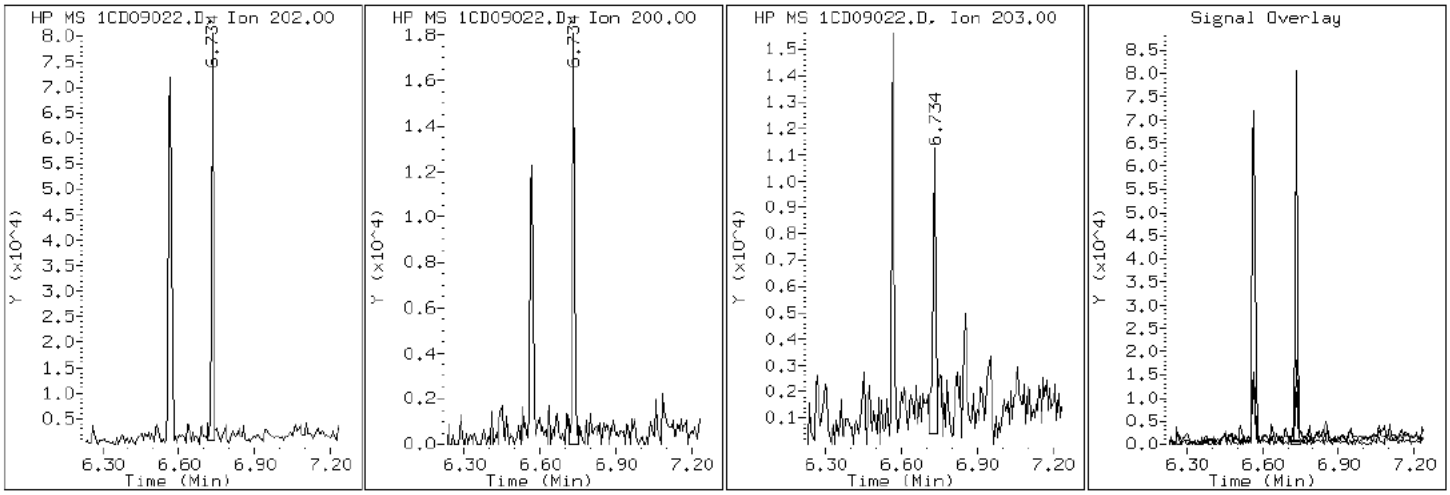
Data File: 1CD09022.D

Date: 09-APR-2013 17:39

Client ID: CV1119C-GS Instrument: BSMC5973.i

Sample Info: 680-88811-a-46-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD09022.D
Inj. Date and Time: 09-APR-2013 17:39
Instrument ID: BSMC5973.i
Client ID: CV1119C-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

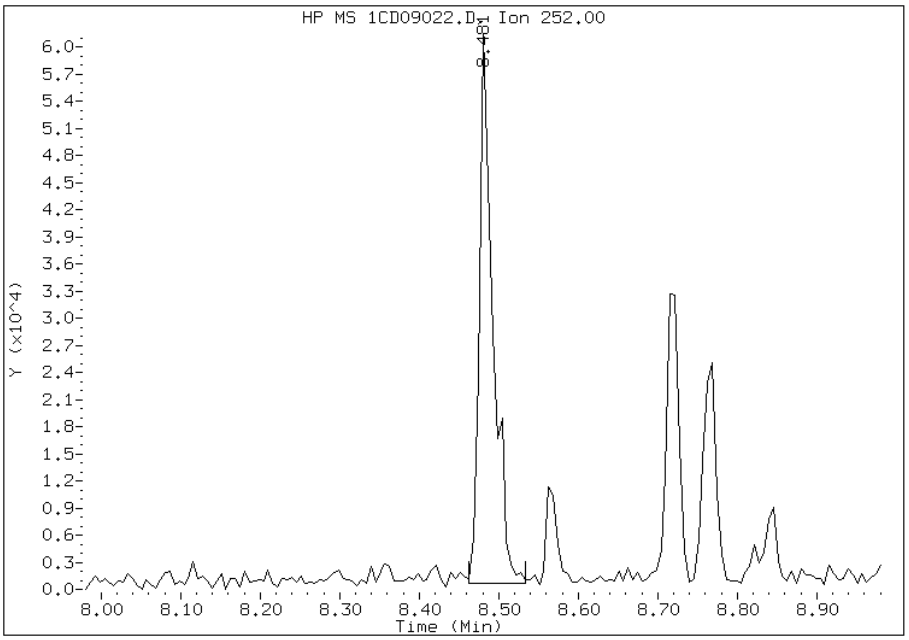
Processing Integration Results

RT: 8.48

Response: 72011

Amount: 5

Conc: 1556



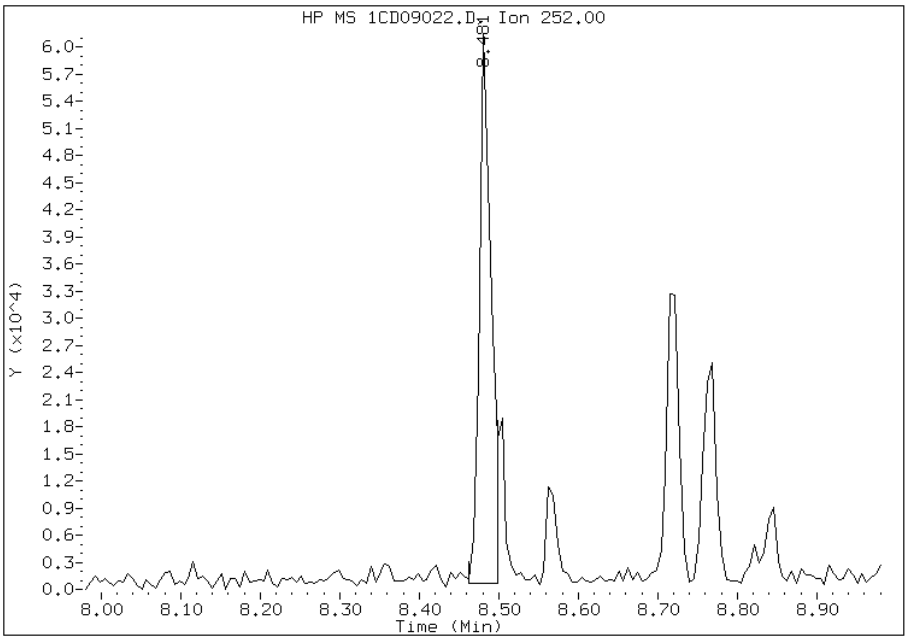
Manual Integration Results

RT: 8.48

Response: 62403

Amount: 4

Conc: 1348



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09022.D
Inj. Date and Time: 09-APR-2013 17:39
Instrument ID: BSMC5973.i
Client ID: CV1119C-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

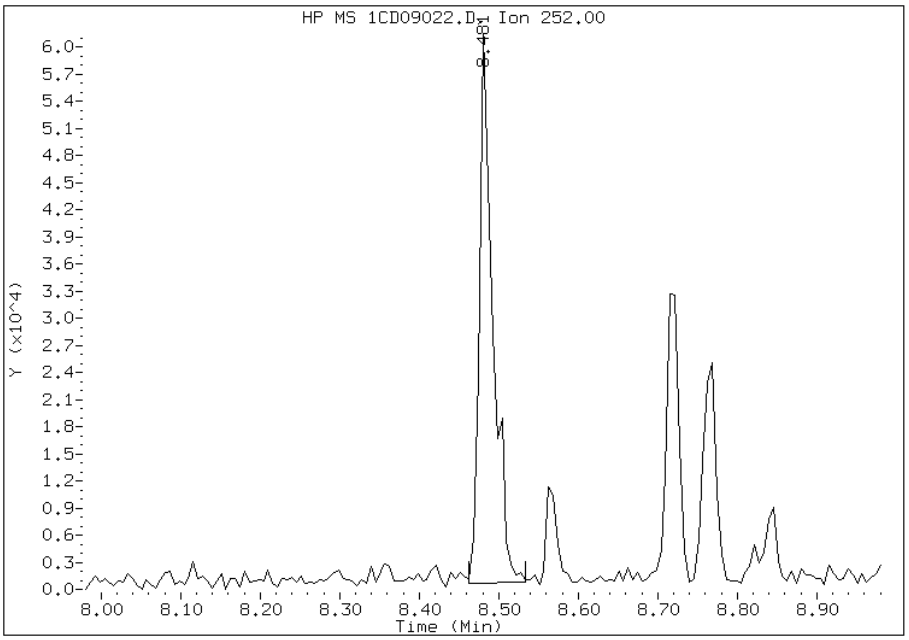
Processing Integration Results

RT: 8.48

Response: 71681

Amount: 5

Conc: 1601



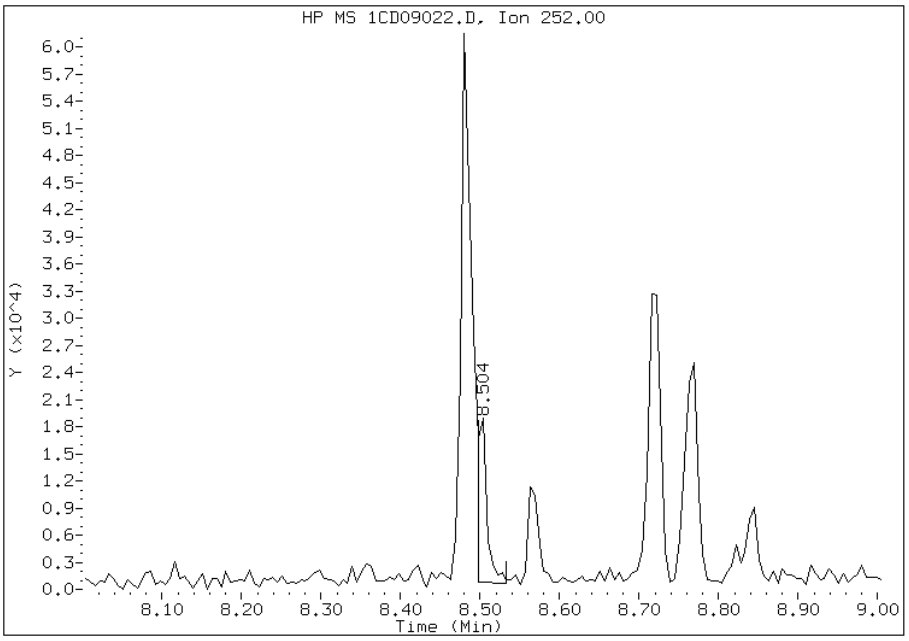
Manual Integration Results

RT: 8.50

Response: 15190

Amount: 1

Conc: 339



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD09022.D
Inj. Date and Time: 09-APR-2013 17:39
Instrument ID: BSMC5973.i
Client ID: CV1119C-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

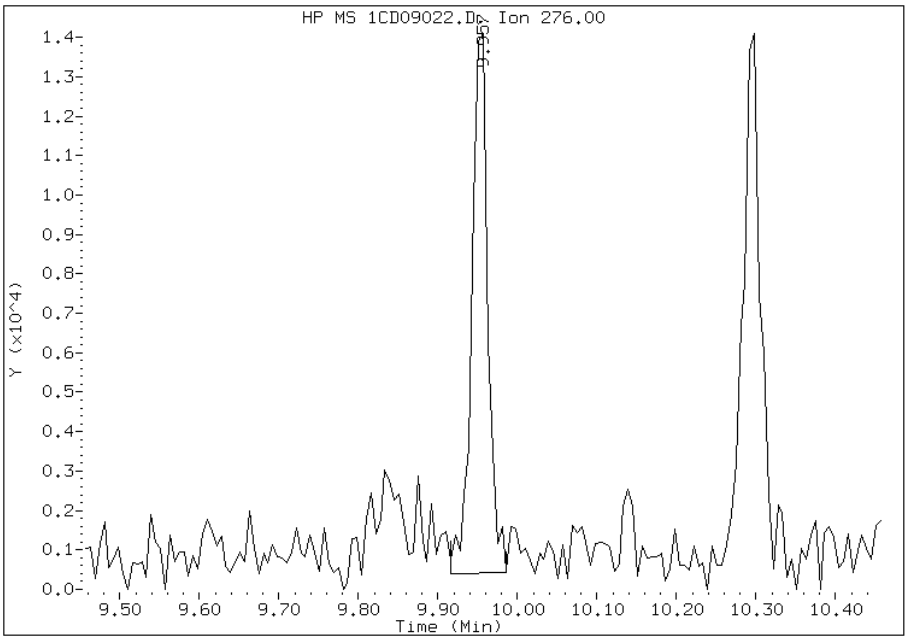
Processing Integration Results

RT: 9.96

Response: 19258

Amount: 1

Conc: 465



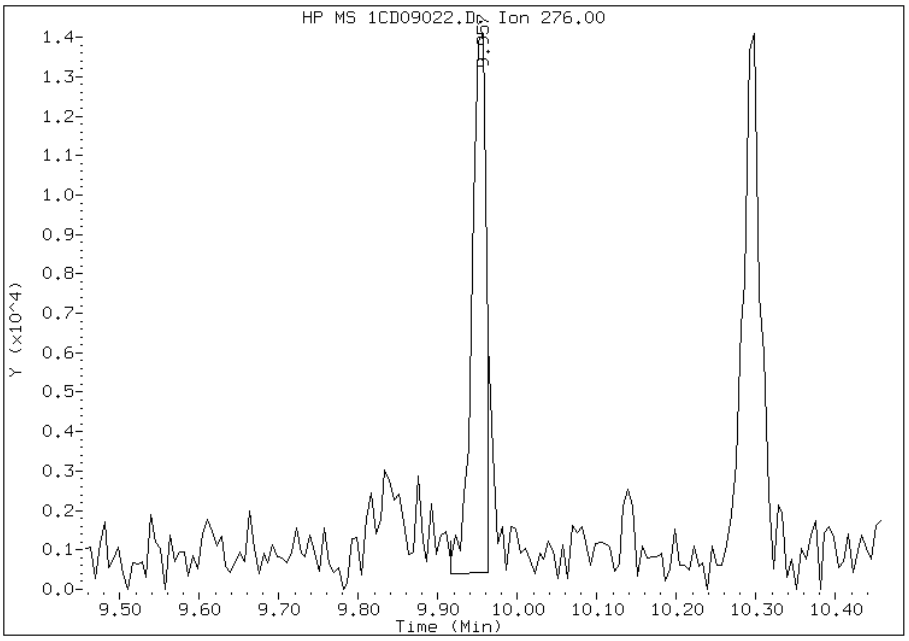
Manual Integration Results

RT: 9.96

Response: 17485

Amount: 1

Conc: 423



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:59
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88811-2 Analy Batch No.: 136269

SDG No.: 68088811-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.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	1.3224 0.9765	1.4000 0.8017	1.3635	1.2150	1.0716	Qua	0.0080	0.5426	0.6857		0.0000				0.9993		0.9900
2-Methylnaphthalene	0.7329 0.5668	0.8103 0.4772	0.7905	0.7267	0.6335	Qua	0.0053	0.9838	1.8407		0.0000				0.9999		0.9900
1-Methylnaphthalene	0.8386 0.6150	0.9303 0.5096	0.8954	0.8140	0.7011	Qua	0.0073	0.7826	1.8237		0.0000				0.9998		0.9900
Acenaphthylene	2.2852 2.0298	2.6251 1.6808	2.7037	2.5182	2.2909	Qua	0.0115	0.2519	0.1589		0.0000				0.9994		0.9900
Acenaphthene	1.5922 1.0788	1.6354 0.8649	1.5785	1.4057	1.2316	Qua	0.0131	0.3660	0.7088		0.0000				0.9988		0.9900
Fluorene	1.8212 1.3872	1.9992 1.1679	1.9526	1.7894	1.6127	Qua	0.0081	0.3641	0.3322		0.0000				0.9995		0.9900
Phenanthrene	1.5193 1.0595	1.5667 0.8792	1.5313	1.3080	1.1973	Qua	0.0076	0.4914	0.5760		0.0000				0.9994		0.9900
Anthracene	1.3573 1.1067	1.5429 0.9179	1.5952	1.3826	1.2521	Qua	0.0084	0.4622	0.5355		0.0000				0.9995		0.9900
Carbazole	1.2628 1.0315	1.3986 0.9052	1.4241	1.2737	1.1703	Qua	0.0017	0.6266	0.4228		0.0000				0.9997		0.9900
Fluoranthene	1.4701 1.2946	1.6137 1.1364	1.7586	1.5469	1.4284	Qua	0.0017	0.5289	0.2464		0.0000				0.9999		0.9900
Pyrene	1.4282 1.4686	1.6373 1.3402	1.7458	1.6229	1.5466	Ave		1.5414			0.0000	9.0		15.0			
Benzo[a]anthracene	1.6104 1.2697	1.3097 1.2400	1.2955	1.2760	1.3387	Ave		1.3343			0.0000	9.4		15.0			
Chrysene	1.6339 1.2107	1.4418 1.1348	1.5177	1.3469	1.2400	Ave		1.3608			0.0000	13.2		15.0			
Benzo[b]fluoranthene	0.9175 1.1946	1.1320 1.1920	1.3269	1.3588	1.3681	Ave		1.2129			0.0000	13.2		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.: 680-88811-2 Analy Batch No.: 136269

SDG No.: 68088811-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

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	1.3268 1.2986	1.4932 1.0881	1.5477	1.4089	1.2662	Ave		1.3471			0.0000	11.4		15.0			
Benzo[a]pyrene	0.8134 1.1999	1.0851 1.1027	1.3072	1.3135	1.2775	Lin	-0.023	1.1218			0.0000				0.9948		0.9900
Indeno[1,2,3-cd]pyrene	0.7532 1.0932	0.8646 1.1587	1.0485	1.0912	1.1534	Lin	0.0100	1.1550			0.0000				0.9990		0.9900
Dibenz(a,h)anthracene	0.7178 1.0472	0.9464 1.0187	1.1445	1.1001	1.1041	Ave		1.0113			0.0000	14.3		15.0			
Benzo[g,h,i]perylene	0.8511 1.0948	1.0645 1.0908	1.2109	1.1539	1.1604	Ave		1.0895			0.0000	10.7		15.0			
o-Terphenyl	0.7785 0.6136	0.8535 0.5258	0.8734	0.7621	0.6900	Qua	0.0032	0.9810	1.3913		0.0000				0.9999		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88811-2 Analy Batch No.: 136269

SDG No.: 68088811-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.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	Qua	10553 1127860	55648 1619928	276099	485647	872905	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	5849 654719	32210 964208	160075	290460	516058	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	6692 710356	36981 1029789	181314	325358	571076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	10106 1267654	56503 1835956	295444	539778	986696	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	7041 673705	35202 944792	172486	301306	530481	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	8054 866311	43032 1275723	213369	383564	694627	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	11894 1181849	59534 1731795	287355	508104	923673	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	10626 1234547	58627 1808013	299351	537109	965900	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Qua	9886 1150659	53147 1782940	267240	494781	902848	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	11509 1444198	61320 2238386	330009	600925	1101924	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12437 1510231	67963 2285792	358125	646018	1181137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	14023 1305727	54365 2115003	265739	507927	1022353	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	14228 1244973	59848 1935588	311327	536146	946973	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	8447 1370829	49060 2346142	294818	577802	1151054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12215 1490192	64713 2141556	343870	599091	1065277	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.: 680-88811-2 Analy Batch No.: 136269

SDG No.: 68088811-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

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	Lin	7488 1376984	47028 2170224	290438	558538	1074806	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	6934 1254537	37472 2280613	232949	463994	970417	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	6608 1201661	41017 2004976	254287	467797	928898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	7835 1256283	46132 2146933	269029	490640	976266	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	6095 684444	32431 1035762	163893	296051	532318	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 09-APR-2013 10:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

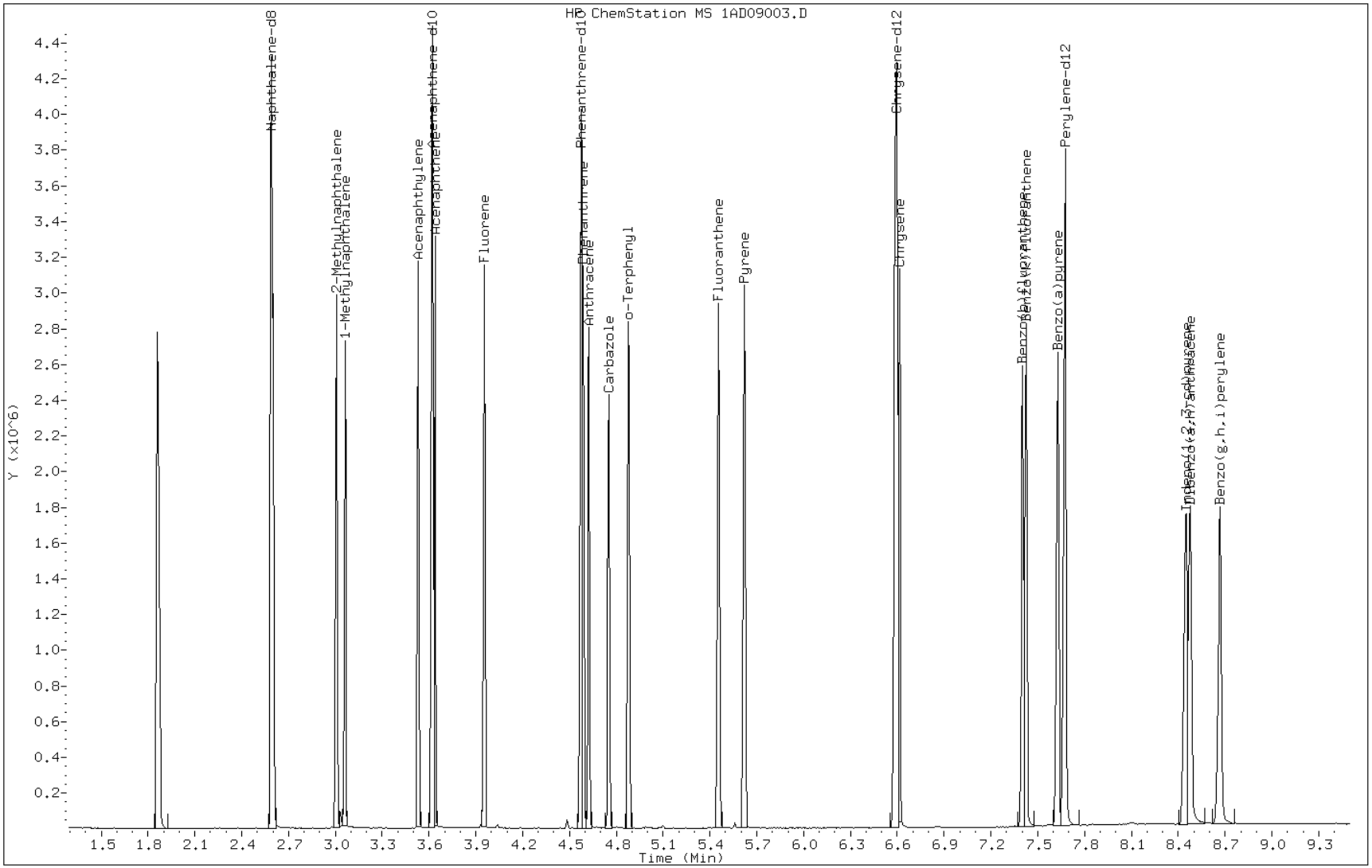
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1629167	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	861420	40.0000	
*	10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1542880	40.0000	
$	14 o-Terphenyl	230	4.877	4.877	(1.067)	532318	20.0000	20.6392
*	18 Chrysene-d12	240	6.597	6.597	(1.000)	1527423	40.0000	
*	23 Perylene-d12	264	7.676	7.676	(1.000)	1682694	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	872905	20.0000	19.9575
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	516058	20.0000	20.4343
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	571076	20.0000	20.8811
	5 Acenaphthylene	152	3.531	3.531	(0.975)	986696	20.0000	20.7921
	7 Acenaphthene	154	3.638	3.638	(1.004)	530481	20.0000	20.9287
	9 Fluorene	166	3.953	3.953	(1.091)	694627	20.0000	21.2067
	11 Phenanthrene	178	4.589	4.589	(1.004)	923673	20.0000	20.2700
	12 Anthracene	178	4.626	4.626	(1.012)	965900	20.0000	20.4153
	13 Carbazole	167	4.754	4.754	(1.040)	902848	20.0000	20.2782
	15 Fluoranthene	202	5.454	5.454	(1.193)	1101924	20.0000	20.9677
	16 Pyrene	202	5.619	5.619	(0.852)	1181137	20.0000	20.6200
	17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	1022353	20.0000	20.2292
	19 Chrysene	228	6.613	6.613	(1.002)	946973	20.0000	19.8173
	20 Benzo(b)fluoranthene	252	7.403	7.403	(0.965)	1151054	20.0000	23.6577
	21 Benzo(k)fluoranthene	252	7.425	7.425	(0.967)	1065277	20.0000	20.0712
	22 Benzo(a)pyrene	252	7.628	7.628	(0.994)	1074806	20.0000	22.9367
	24 Indeno(1,2,3-cd)pyrene	276	8.450	8.450	(1.101)	970417	20.0000	22.2782
	25 Dibenzo(a,h)anthracene	278	8.477	8.477	(1.104)	928898	20.0000	23.9724
	26 Benzo(g,h,i)perylene	276	8.669	8.669	(1.129)	976266	20.0000	23.2995

Data File: 1AD09003.D

Date: 09-APR-2013 10:31

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09004.D
Lab Smp Id: IC-1531396
Inj Date : 09-APR-2013 10:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

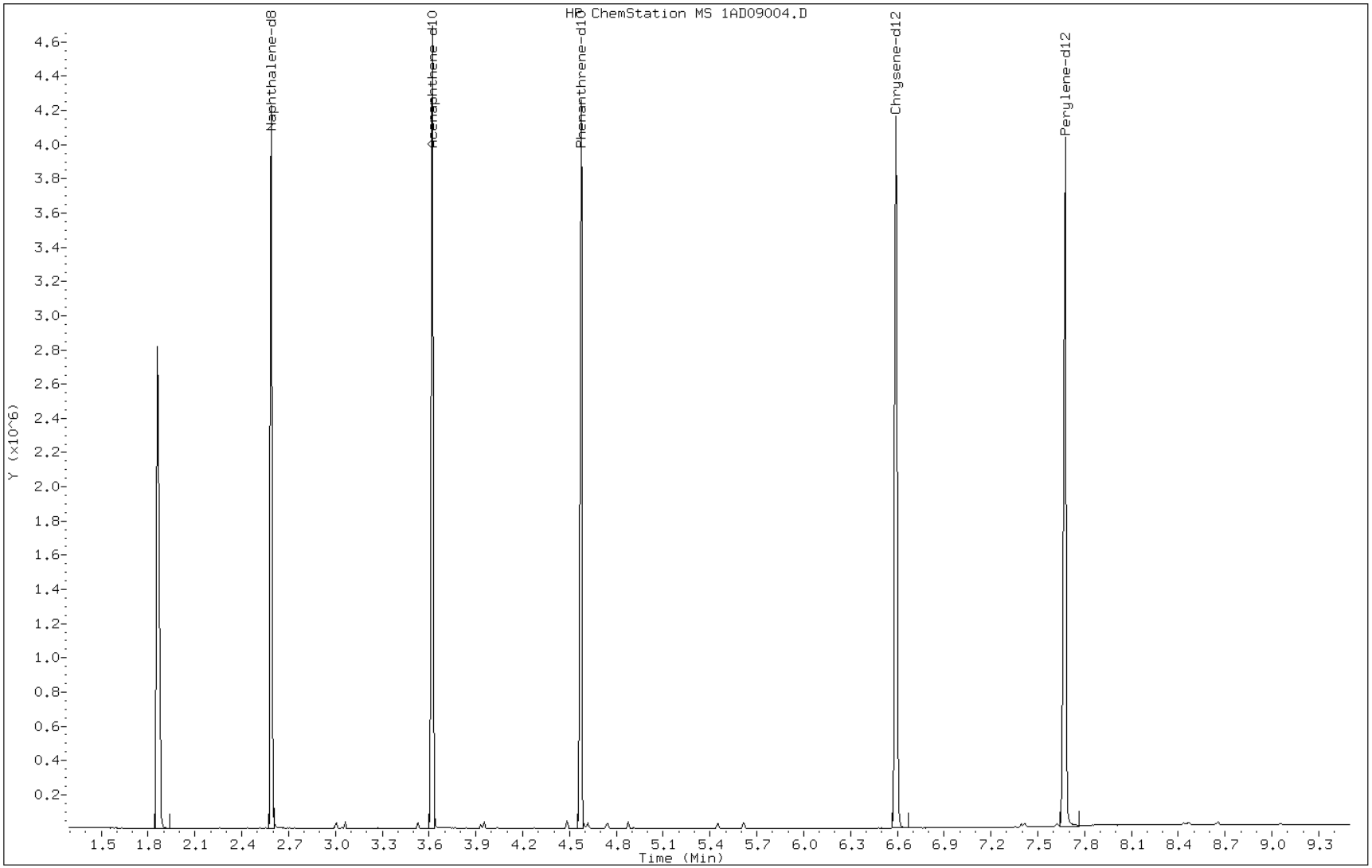
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1596037	40.0000	
*	6 Acenaphthene-d10	164	3.621	3.622	(1.000)	884461	40.0000	
*	10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1565756	40.0000	
$	14 o-Terphenyl	230	4.877	4.877	(1.067)	6095	0.20000	0.2328
*	18 Chrysene-d12	240	6.591	6.597	(1.000)	1741599	40.0000	
*	23 Perylene-d12	264	7.675	7.676	(1.000)	1841229	40.0000	
	2 Naphthalene	128	2.601	2.602	(1.004)	10553	0.20000	0.3869
	3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	5849	0.20000	0.4505
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	6692	0.20000	0.3937
	5 Acenaphthylene	152	3.531	3.531	(0.975)	10106	0.20000	0.6062
	7 Acenaphthene	154	3.638	3.638	(1.004)	7041	0.20000	0.4297
	9 Fluorene	166	3.953	3.953	(1.091)	8054	0.20000	0.5455
	11 Phenanthrene	178	4.588	4.589	(1.004)	11894	0.20000	0.4266
	12 Anthracene	178	4.620	4.626	(1.011)	10626	0.20000	0.3310
	13 Carbazole	167	4.748	4.754	(1.039)	9886	0.20000	0.2187
	15 Fluoranthene	202	5.448	5.454	(1.192)	11509	0.20000	0.2157
	16 Pyrene	202	5.619	5.619	(0.853)	12437	0.20000	0.1904
	17 Benzo(a)anthracene	228	6.586	6.581	(0.999)	14023	0.20000	0.2433
	19 Chrysene	228	6.607	6.613	(1.002)	14228	0.20000	0.2611
	20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	8447	0.20000	0.1586
	21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	12215	0.20000	0.2103
	22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	7488	0.20000	0.1460
	24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	6934	0.20000	0.2440
	25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	6608	0.20000	0.1558
	26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	7835	0.20000	0.1708

Data File: 1AD09004.D

Date: 09-APR-2013 10:48

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09005.D
Lab Smp Id: IC-1531398
Inj Date : 09-APR-2013 11:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:48 Cal File: 1AD09004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1589999	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	860976	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1519965	40.0000	
$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	32431	1.00000	1.2362
* 18 Chrysene-d12	240	6.592	6.597	(1.000)	1660335	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1733524	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	55648	1.00000	1.1485
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	32210	1.00000	1.1998
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	36981	1.00000	1.1515
5 Acenaphthylene	152	3.531	3.531	(0.975)	56503	1.00000	1.2231
7 Acenaphthene	154	3.638	3.638	(1.004)	35202	1.00000	1.1716
9 Fluorene	166	3.953	3.953	(1.091)	43032	1.00000	1.2494
11 Phenanthrene	178	4.589	4.589	(1.004)	59534	1.00000	1.1943
12 Anthracene	178	4.621	4.626	(1.011)	58627	1.00000	1.0870
13 Carbazole	167	4.749	4.754	(1.039)	53147	1.00000	1.1966
15 Fluoranthene	202	5.449	5.454	(1.192)	61320	1.00000	1.1576
16 Pyrene	202	5.614	5.619	(0.852)	67963	1.00000	1.0866
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	54365	1.00000	0.9937
19 Chrysene	228	6.608	6.613	(1.002)	59848	1.00000	1.1159
20 Benzo(b)fluoranthene	252	7.393	7.403	(0.963)	49060	1.00000	0.9825
21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	64713	1.00000	1.1596
22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	47028	1.00000	0.9844
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	37472	1.00000	0.9251(H)
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	41017	1.00000	1.0153(M)
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	46132	1.00000	1.0614(M)

QC Flag Legend

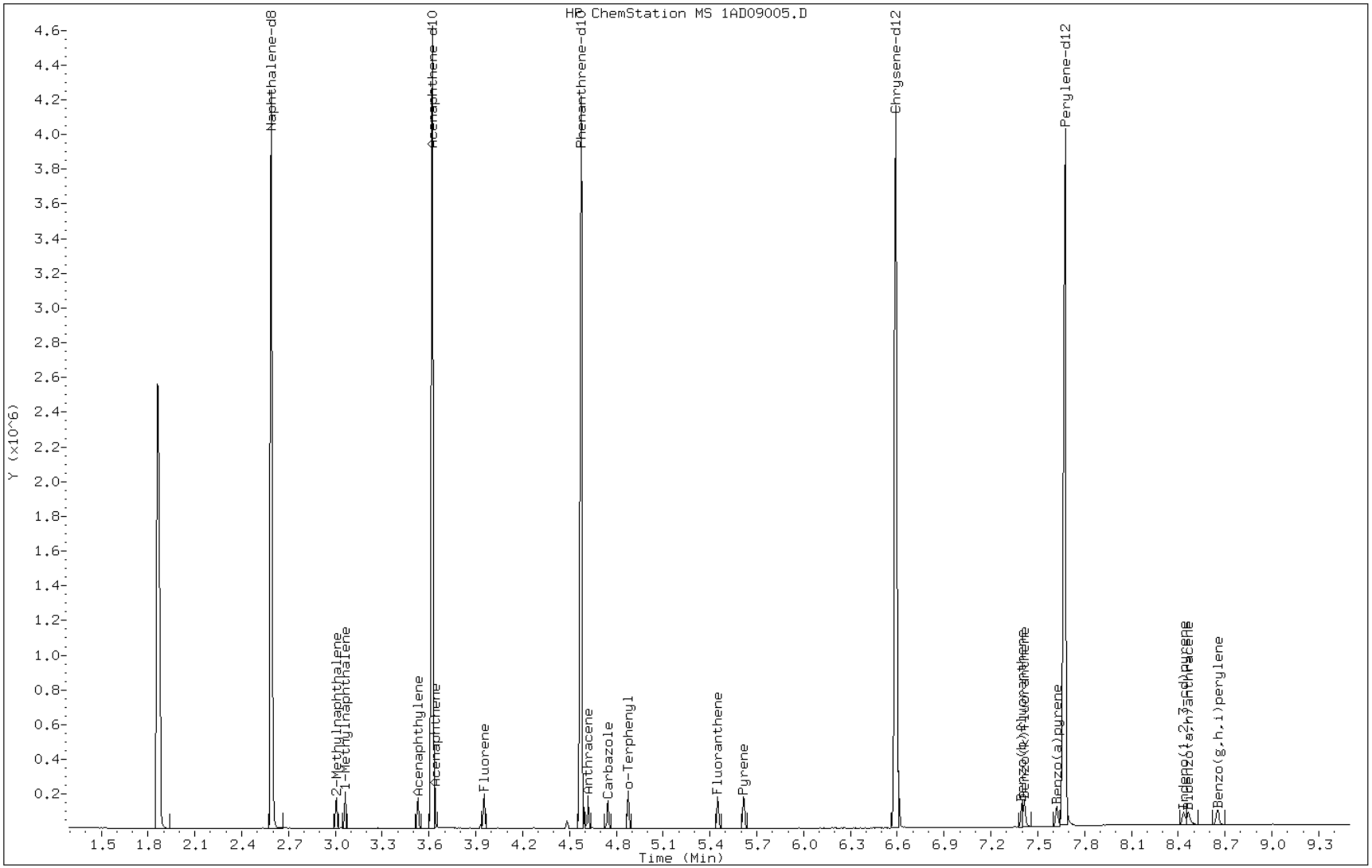
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AD09005.D

Date: 09-APR-2013 11:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1AD09005.D
Inj. Date and Time: 09-APR-2013 11:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

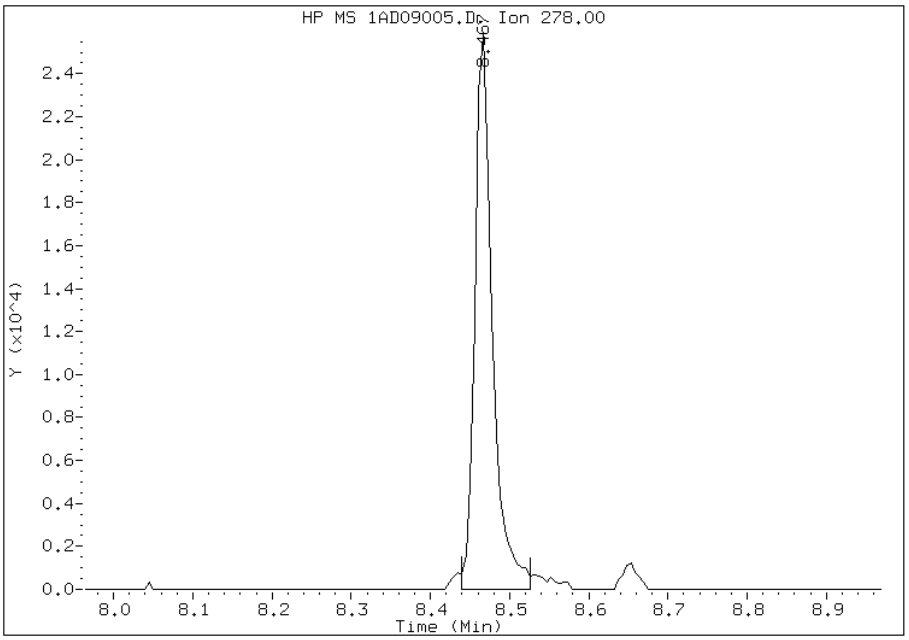
Processing Integration Results

RT: 8.47

Response: 39194

Amount: 1

Conc: 1



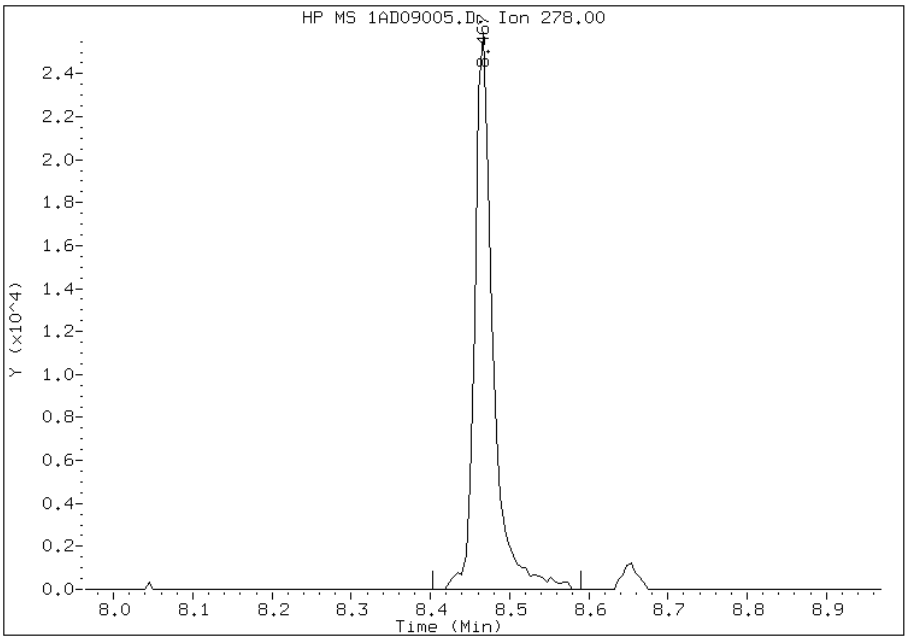
Manual Integration Results

RT: 8.47

Response: 41017

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09005.D
Inj. Date and Time: 09-APR-2013 11:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

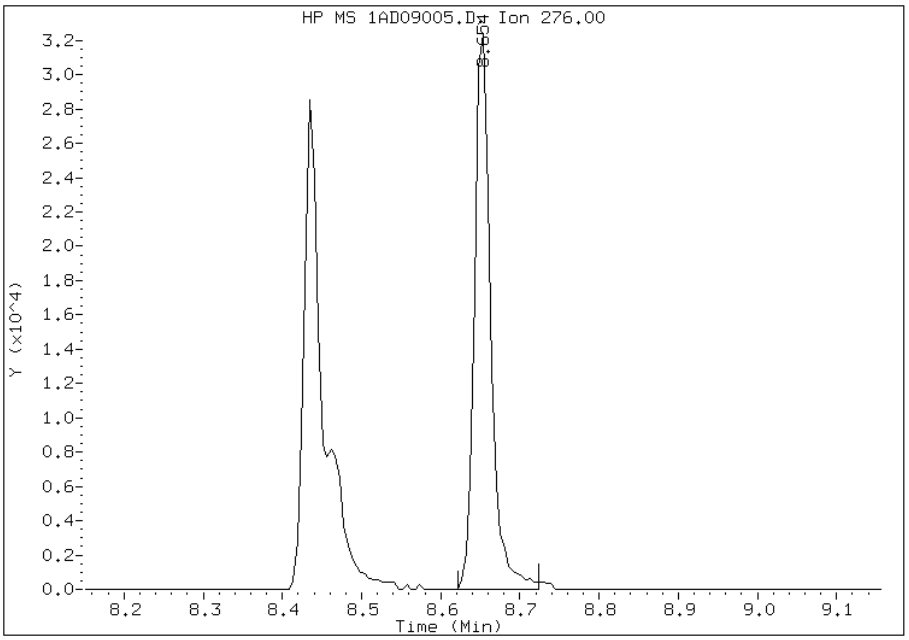
Processing Integration Results

RT: 8.65

Response: 45759

Amount: 1

Conc: 1



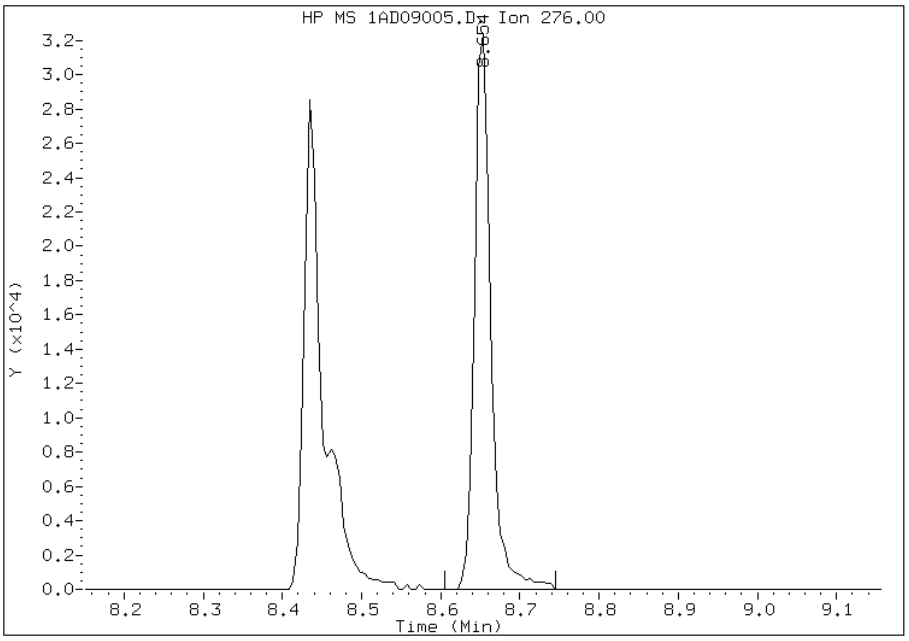
Manual Integration Results

RT: 8.65

Response: 46132

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09006.D
Lab Smp Id: IC-1531399
Inj Date : 09-APR-2013 11:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:04 Cal File: 1AD09005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.587	2.591	(1.000)	1619963	40.0000	
*	6 Acenaphthene-d10	164	3.618	3.622	(1.000)	874198	40.0000	
*	10 Phenanthrene-d10	188	4.574	4.573	(1.000)	1501226	40.0000	
$	14 o-Terphenyl	230	4.879	4.877	(1.067)	163893	5.00000	6.1874
*	18 Chrysene-d12	240	6.593	6.597	(1.000)	1641042	40.0000	
*	23 Perylene-d12	264	7.672	7.676	(1.000)	1777421	40.0000	
	2 Naphthalene	128	2.598	2.602	(1.004)	276099	5.00000	5.2441
	3 2-Methylnaphthalene	141	3.004	3.008	(1.161)	160075	5.00000	5.2349
	4 1-Methylnaphthalene	142	3.063	3.061	(1.184)	181314	5.00000	5.2534
	5 Acenaphthylene	152	3.527	3.531	(0.975)	295444	5.00000	4.8504
	7 Acenaphthene	154	3.634	3.638	(1.004)	172486	5.00000	5.2897
	9 Fluorene	166	3.949	3.953	(1.092)	213369	5.00000	5.1212
	11 Phenanthrene	178	4.585	4.589	(1.002)	287355	5.00000	5.3602
	12 Anthracene	178	4.622	4.626	(1.011)	299351	5.00000	5.3674
	13 Carbazole	167	4.750	4.754	(1.039)	267240	5.00000	6.0094
	15 Fluoranthene	202	5.450	5.454	(1.191)	330009	5.00000	6.2143
	16 Pyrene	202	5.616	5.619	(0.852)	358125	5.00000	5.7292
	17 Benzo(a)anthracene	228	6.582	6.581	(0.998)	265739	5.00000	4.9027
	19 Chrysene	228	6.609	6.613	(1.002)	311327	5.00000	5.7795
	20 Benzo(b)fluoranthene	252	7.394	7.403	(0.964)	294818	5.00000	5.6461
	21 Benzo(k)fluoranthene	252	7.416	7.425	(0.967)	343870	5.00000	5.8943
	22 Benzo(a)pyrene	252	7.619	7.628	(0.993)	290438	5.00000	5.8709
	24 Indeno(1,2,3-cd)pyrene	276	8.436	8.450	(1.100)	232949	5.00000	5.1117
	25 Dibenzo(a,h)anthracene	278	8.462	8.477	(1.103)	254287	5.00000	6.0020(M)
	26 Benzo(g,h,i)perylene	276	8.649	8.669	(1.127)	269029	5.00000	5.9013

QC Flag Legend

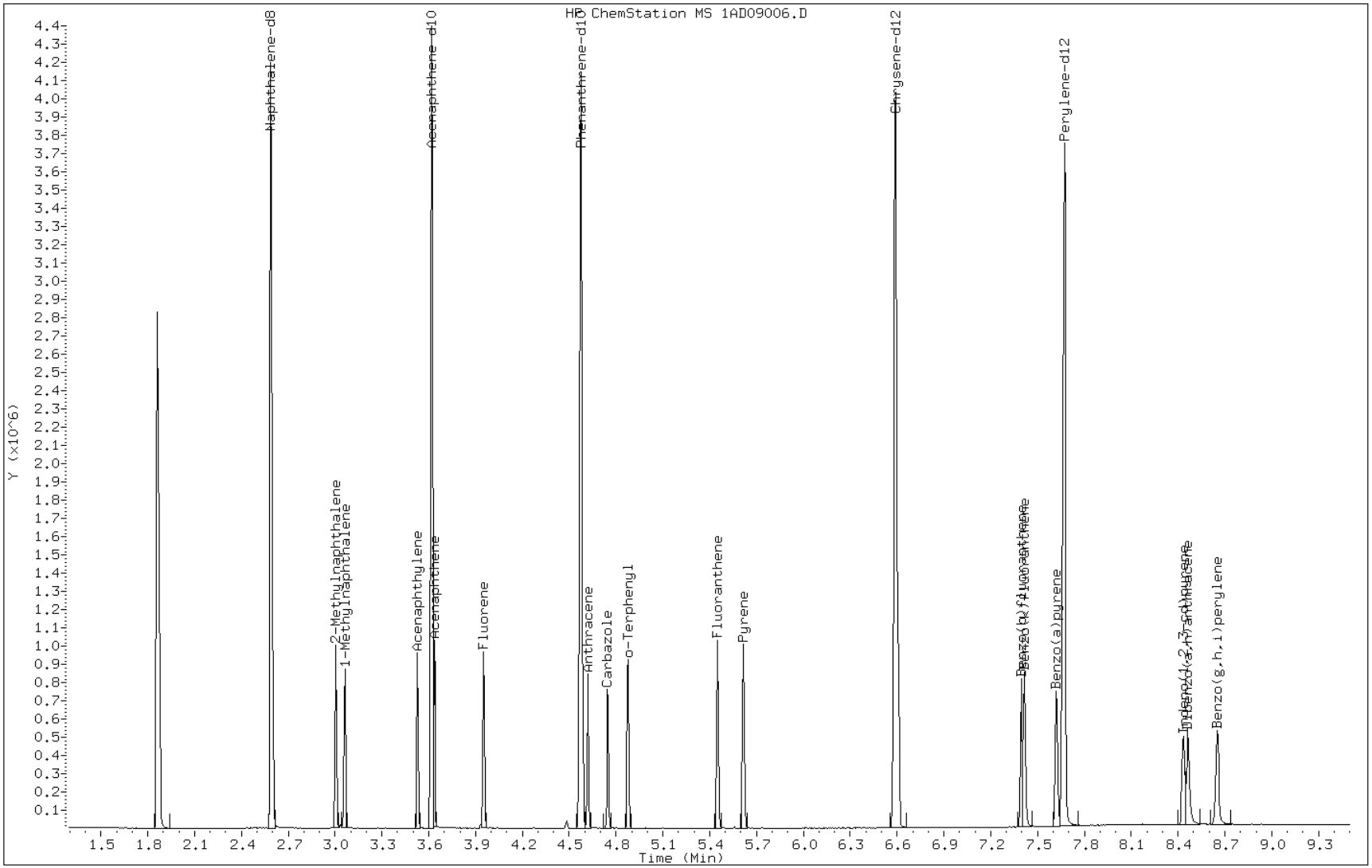
M - Compound response manually integrated.

Data File: 1AD09006.D

Date: 09-APR-2013 11:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1AD09006.D
Inj. Date and Time: 09-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

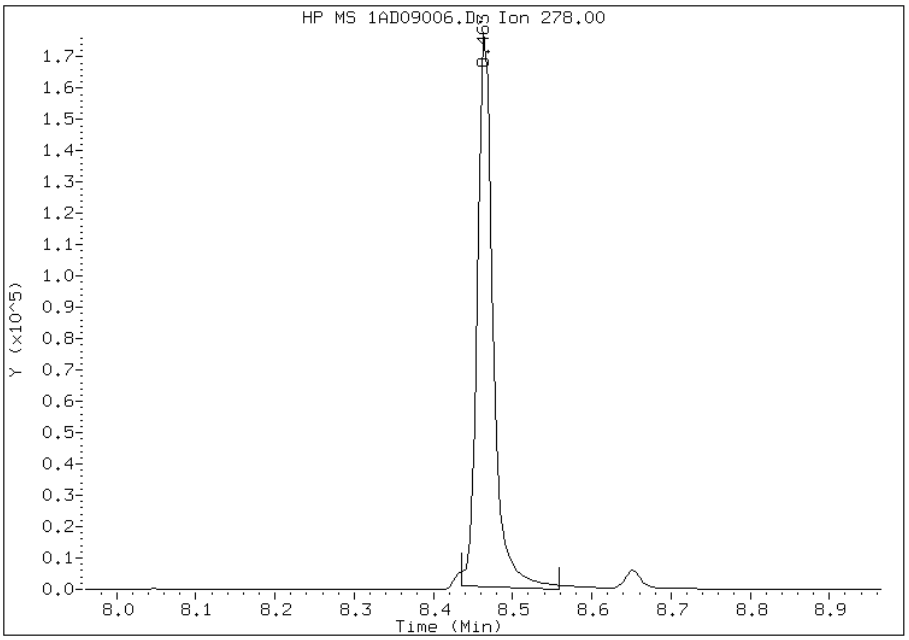
Processing Integration Results

RT: 8.46

Response: 243239

Amount: 6

Conc: 6



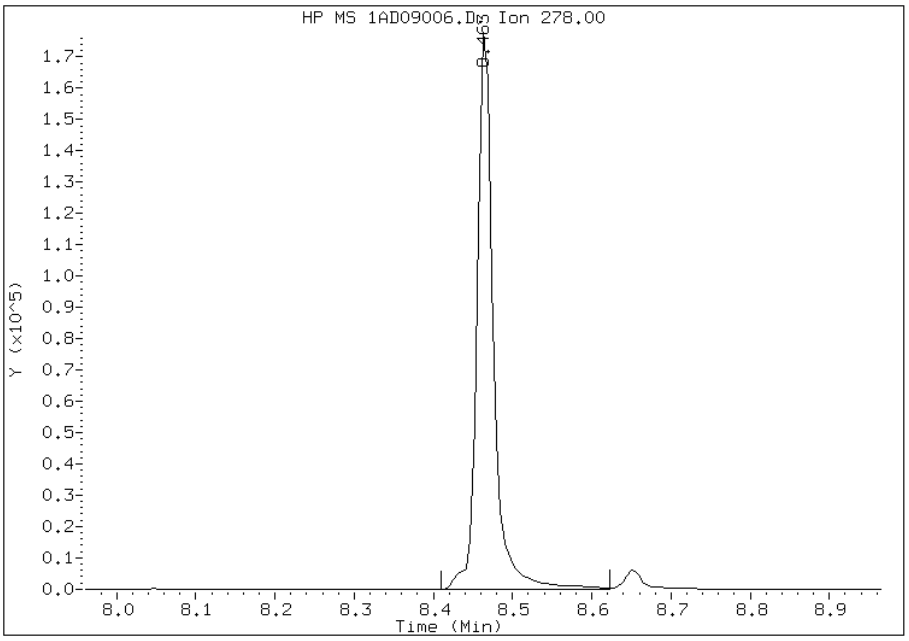
Manual Integration Results

RT: 8.46

Response: 254287

Amount: 6

Conc: 6



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09007.D
Lab Smp Id: IC-1531400
Inj Date : 09-APR-2013 11:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:19 Cal File: 1AD09006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

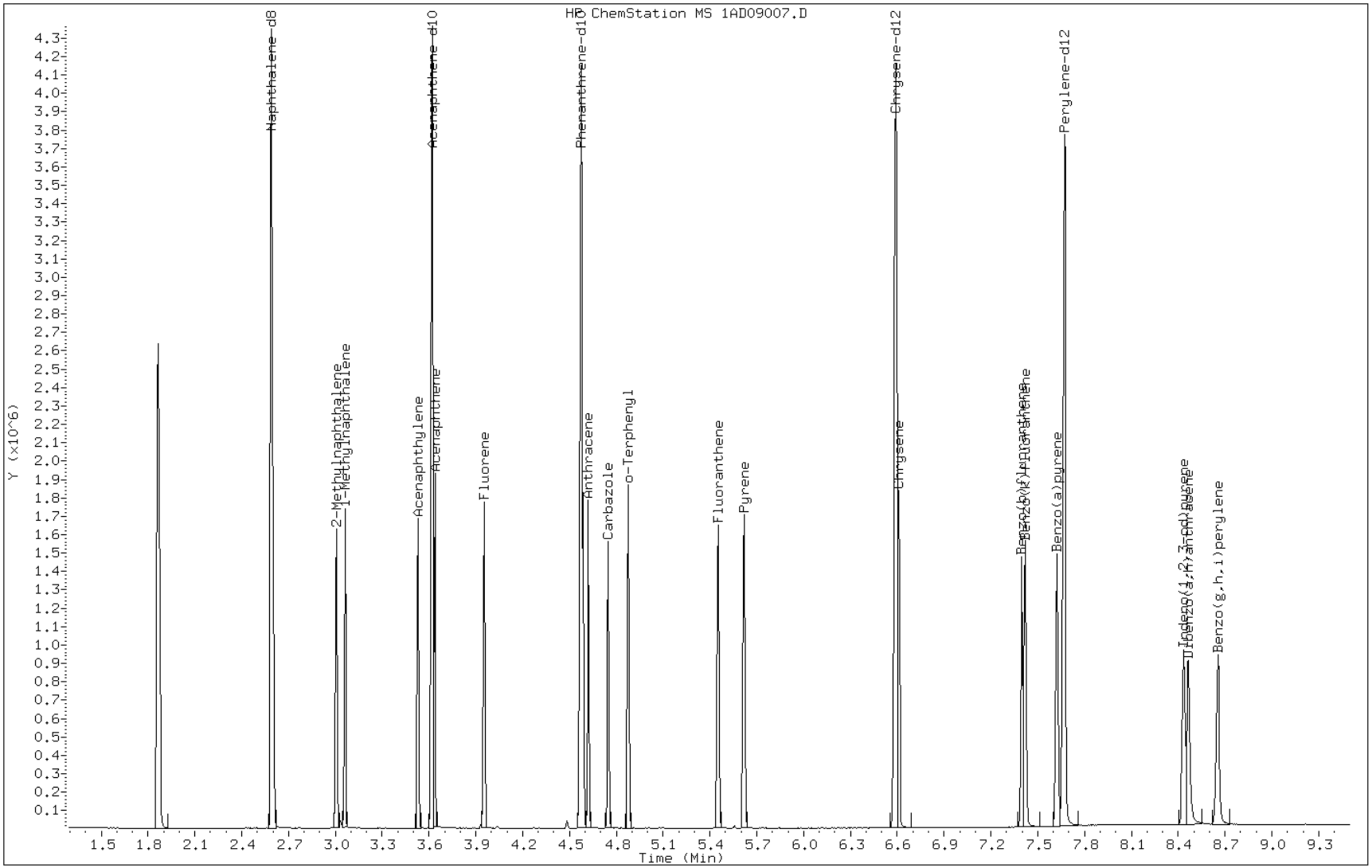
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.591	2.591	(1.000)	1598776	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	857411	40.0000	
*	10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1553879	40.0000	
$	14 o-Terphenyl	230	4.877	4.877	(1.067)	296051	10.0000	10.6256
*	18 Chrysene-d12	240	6.591	6.597	(1.000)	1592296	40.0000	
*	23 Perylene-d12	264	7.670	7.676	(1.000)	1700858	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	485647	10.0000	9.9295
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	290460	10.0000	10.2364
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	325358	10.0000	10.3683
	5 Acenaphthylene	152	3.531	3.531	(0.975)	539778	10.0000	9.6764
	7 Acenaphthene	154	3.638	3.638	(1.004)	301306	10.0000	10.2149
	9 Fluorene	166	3.953	3.953	(1.091)	383564	10.0000	10.0269
	11 Phenanthrene	178	4.589	4.589	(1.004)	508104	10.0000	9.6197
	12 Anthracene	178	4.621	4.626	(1.011)	537109	10.0000	9.8618
	13 Carbazole	167	4.749	4.754	(1.039)	494781	10.0000	10.6152
	15 Fluoranthene	202	5.454	5.454	(1.193)	600925	10.0000	10.7198
	16 Pyrene	202	5.619	5.619	(0.853)	646018	10.0000	10.5680
	17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	507927	10.0000	9.6156
	19 Chrysene	228	6.607	6.613	(1.002)	536146	10.0000	10.0748
	20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	577802	10.0000	11.5370
	21 Benzo(k)fluoranthene	252	7.419	7.425	(0.967)	599091	10.0000	10.5145
	22 Benzo(a)pyrene	252	7.622	7.628	(0.994)	558538	10.0000	11.5949
	24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.100)	463994	10.0000	10.4559
	25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.104)	467797	10.0000	11.2448
	26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.128)	490640	10.0000	10.9587

Data File: 1AD09007.D

Date: 09-APR-2013 11:33

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531400 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09008.D
Lab Smp Id: IC-1531402
Inj Date : 09-APR-2013 11:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:33 Cal File: 1AD09007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

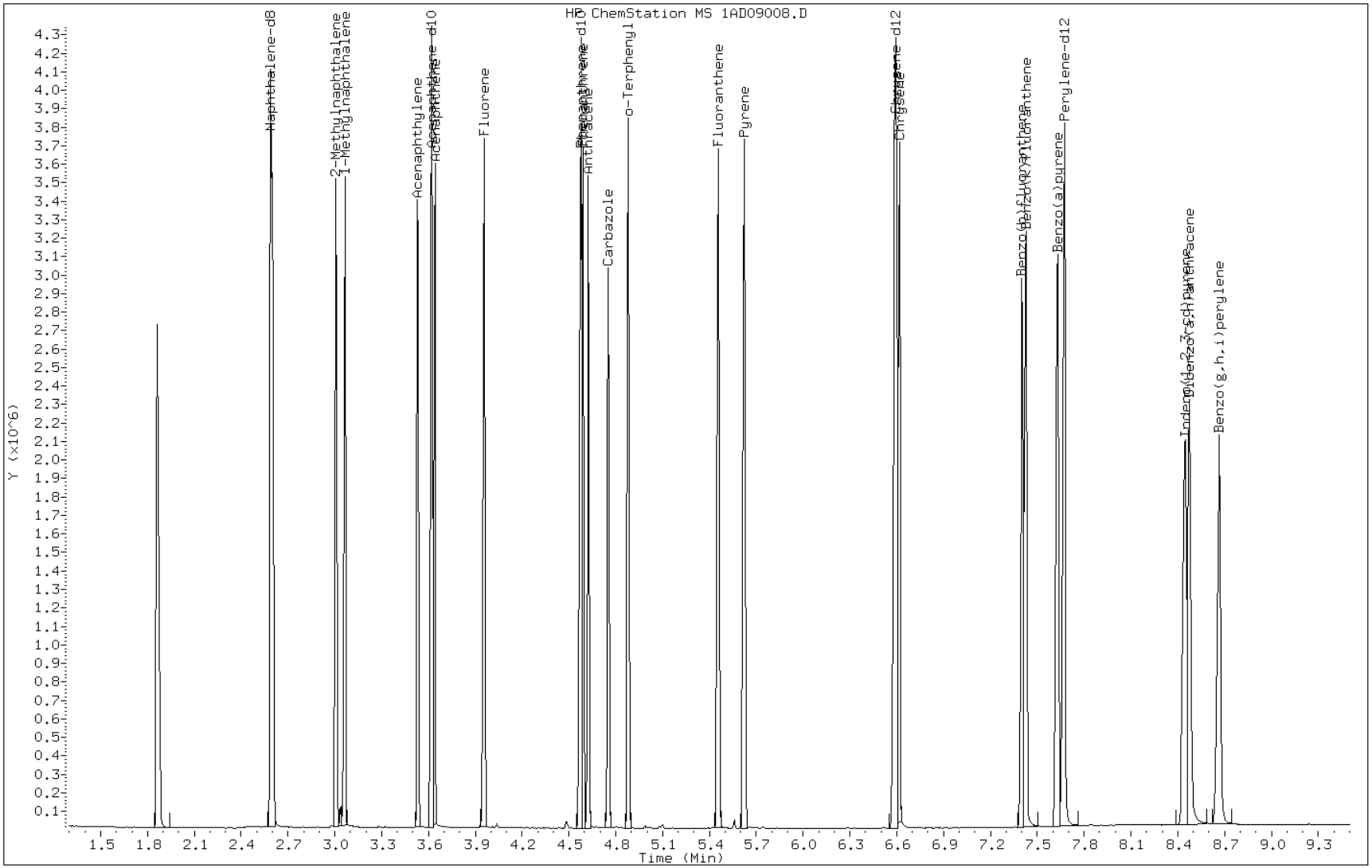
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.589	2.591	(1.000)	1540056	40.0000	
*	6 Acenaphthene-d10	164	3.620	3.622	(1.000)	832688	40.0000	
*	10 Phenanthrene-d10	188	4.576	4.573	(1.000)	1487352	40.0000	
$	14 o-Terphenyl	230	4.880	4.877	(1.067)	684444	30.0000	25.3467
*	18 Chrysene-d12	240	6.595	6.597	(1.000)	1371124	40.0000	
*	23 Perylene-d12	264	7.674	7.676	(1.000)	1530063	40.0000	
	2 Naphthalene	128	2.600	2.602	(1.004)	1127860	30.0000	29.9432
	3 2-Methylnaphthalene	141	3.006	3.008	(1.161)	654719	30.0000	29.9345
	4 1-Methylnaphthalene	142	3.064	3.061	(1.184)	710356	30.0000	30.1606
	5 Acenaphthylene	152	3.529	3.531	(0.975)	1267654	30.0000	30.7339
	7 Acenaphthene	154	3.641	3.638	(1.006)	673705	30.0000	30.1389
	9 Fluorene	166	3.956	3.953	(1.093)	866311	30.0000	29.7705
	11 Phenanthrene	178	4.592	4.589	(1.003)	1181849	30.0000	29.2539
	12 Anthracene	178	4.624	4.626	(1.011)	1234547	30.0000	29.3561
	13 Carbazole	167	4.752	4.754	(1.039)	1150659	30.0000	25.5465
	15 Fluoranthene	202	5.457	5.454	(1.193)	1444198	30.0000	26.6621
	16 Pyrene	202	5.623	5.619	(0.853)	1510231	30.0000	28.5401
	17 Benzo(a)anthracene	228	6.584	6.581	(0.998)	1305727	30.0000	28.4543
	19 Chrysene	228	6.616	6.613	(1.003)	1244973	30.0000	26.9339
	20 Benzo(b)fluoranthene	252	7.401	7.403	(0.965)	1370829	30.0000	29.7706
	21 Benzo(k)fluoranthene	252	7.428	7.425	(0.968)	1490192	30.0000	28.9795
	22 Benzo(a)pyrene	252	7.631	7.628	(0.994)	1376984	30.0000	31.2508
	24 Indeno(1,2,3-cd)pyrene	276	8.448	8.450	(1.101)	1254537	30.0000	31.4946
	25 Dibenzo(a,h)anthracene	278	8.475	8.477	(1.104)	1201661	30.0000	31.5452
	26 Benzo(g,h,i)perylene	276	8.667	8.669	(1.129)	1256283	30.0000	30.6309

Data File: 1AD09008.D

Date: 09-APR-2013 11:49

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531402 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09009.D
Lab Smp Id: IC-1531403
Inj Date : 09-APR-2013 12:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:49 Cal File: 1AD09008.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	2.591	2.591	(1.000)	1616496	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	873865	40.0000	
* 10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1575809	40.0000	
$ 14 o-Terphenyl	230	4.882	4.877	(1.068)	1035762	50.0000	36.1399
* 18 Chrysene-d12	240	6.602	6.597	(1.000)	1364496	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1574534	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	1619928	50.0000	46.4915
3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	964208	50.0000	48.4523
4 1-Methylnaphthalene	142	3.066	3.061	(1.183)	1029789	50.0000	48.2198
5 Acenaphthylene	152	3.531	3.531	(0.975)	1835956	50.0000	49.5157
7 Acenaphthene	154	3.643	3.638	(1.006)	944792	50.0000	45.9717
9 Fluorene	166	3.958	3.953	(1.093)	1275723	50.0000	48.8799
11 Phenanthrene	178	4.594	4.589	(1.005)	1731795	50.0000	46.2239
12 Anthracene	178	4.631	4.626	(1.013)	1808013	50.0000	46.1457
13 Carbazole	167	4.759	4.754	(1.041)	1782940	50.0000	37.4205
15 Fluoranthene	202	5.459	5.454	(1.194)	2238386	50.0000	38.9757
16 Pyrene	202	5.630	5.619	(0.853)	2285792	50.0000	43.4140
17 Benzo(a)anthracene	228	6.586	6.581	(0.998)	2115003	50.0000	46.3618
19 Chrysene	228	6.623	6.613	(1.003)	1935588	50.0000	41.8553
20 Benzo(b)fluoranthene	252	7.409	7.403	(0.965)	2346142	50.0000	49.7155
21 Benzo(k)fluoranthene	252	7.435	7.425	(0.969)	2141556	50.0000	40.0784(M)
22 Benzo(a)pyrene	252	7.638	7.628	(0.995)	2170224	50.0000	47.6951
24 Indeno(1,2,3-cd)pyrene	276	8.461	8.450	(1.102)	2280613	50.0000	54.9725(A)
25 Dibenzo(a,h)anthracene	278	8.487	8.477	(1.106)	2004976	50.0000	50.7196(A)
26 Benzo(g,h,i)perylene	276	8.685	8.669	(1.132)	2146933	50.0000	50.5756(A)

QC Flag Legend

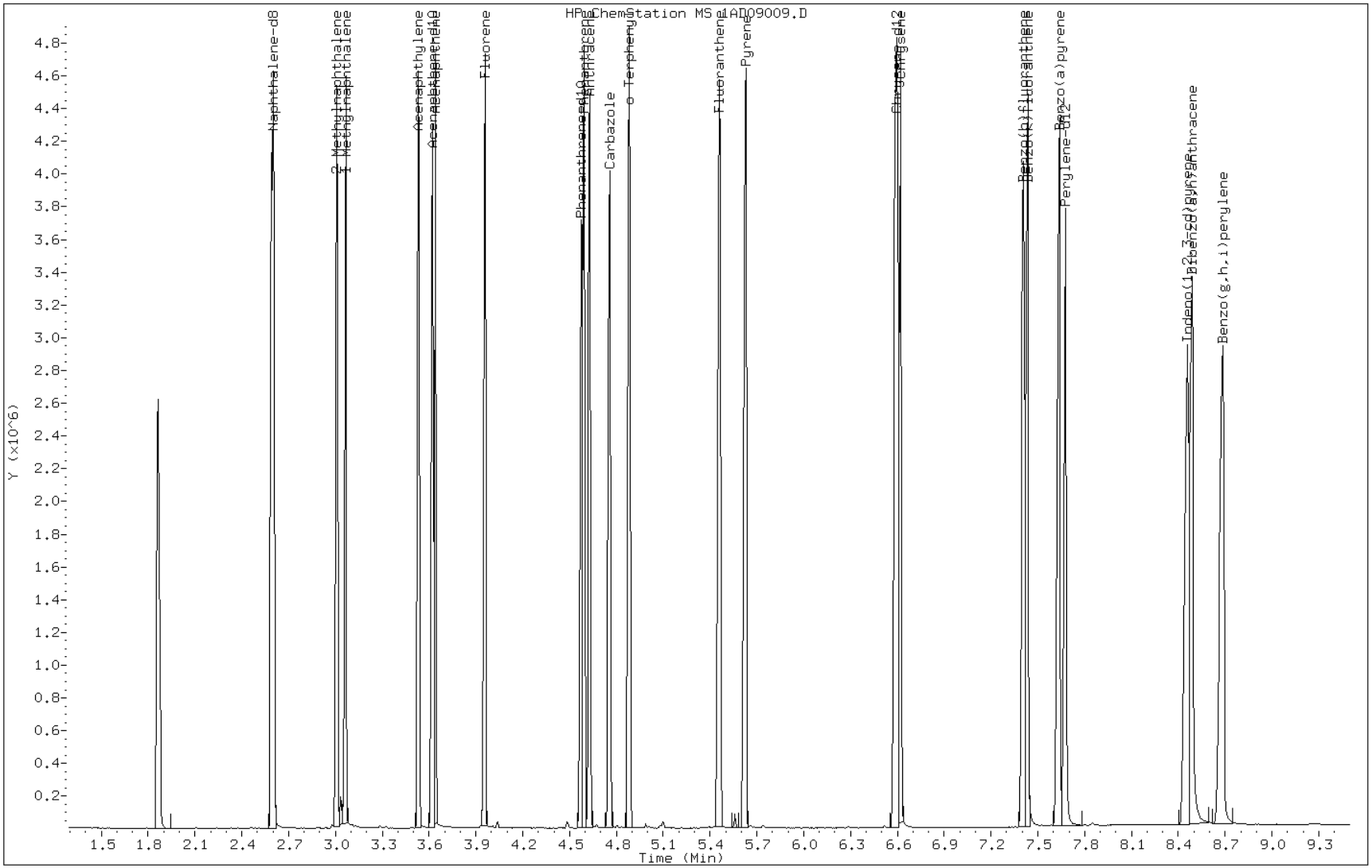
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AD09009.D

Date: 09-APR-2013 12:03

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1AD09009.D
Inj. Date and Time: 09-APR-2013 12:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

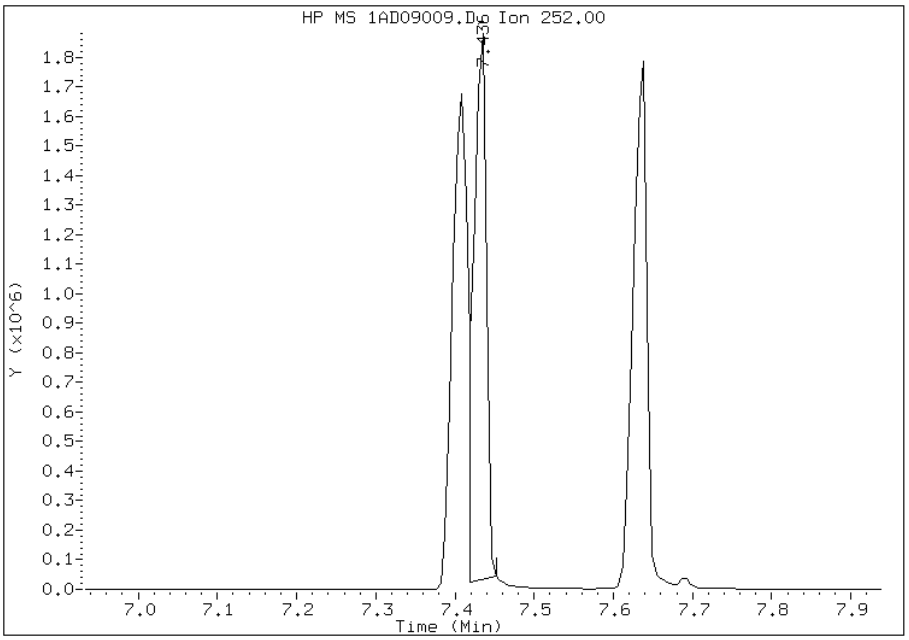
Processing Integration Results

RT: 7.44

Response: 2027064

Amount: 38

Conc: 38



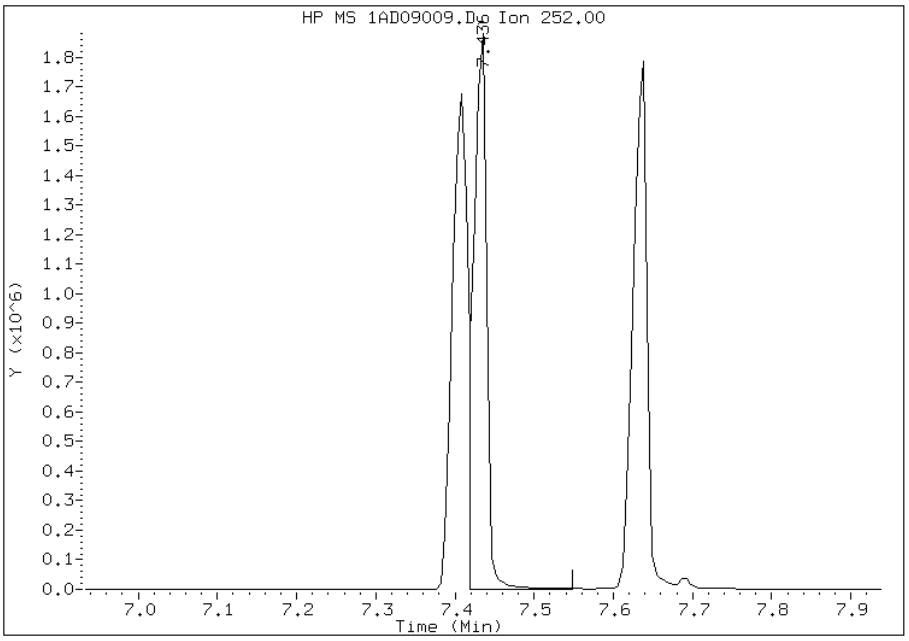
Manual Integration Results

RT: 7.44

Response: 2141556

Amount: 40

Conc: 40



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:32
Manual Integration Reason: Baseline Event

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88811-2 Analy Batch No.: 136048

SDG No.: 68088811-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7		15.0			
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1		15.0			
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6		15.0			
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8		15.0			
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000				0.9993		0.9900
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6		15.0			
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9		15.0			
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9		15.0			
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1		15.0			
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4		15.0			
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8		15.0			
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000				0.9997		0.9900
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8		15.0			
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9		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.: 680-88811-2 Analy Batch No.: 136048

SDG No.: 68088811-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

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	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1		15.0			
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2		15.0			
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7		15.0			
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0		15.0			
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000				0.9966		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88811-2 Analy Batch No.: 136048

SDG No.: 68088811-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	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.: 680-88811-2 Analy Batch No.: 136048

SDG No.: 68088811-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

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	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
Lab Smp Id: IC1
Inj Date : 02-APR-2013 13:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
*	6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
*	10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
$	14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
*	18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
*	23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
	2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
	3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
	5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
	7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
	9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
	11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
	12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
	13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
	15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
	16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
	17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
	19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
	20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
	21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
	22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
	25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
	26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(H)

QC Flag Legend

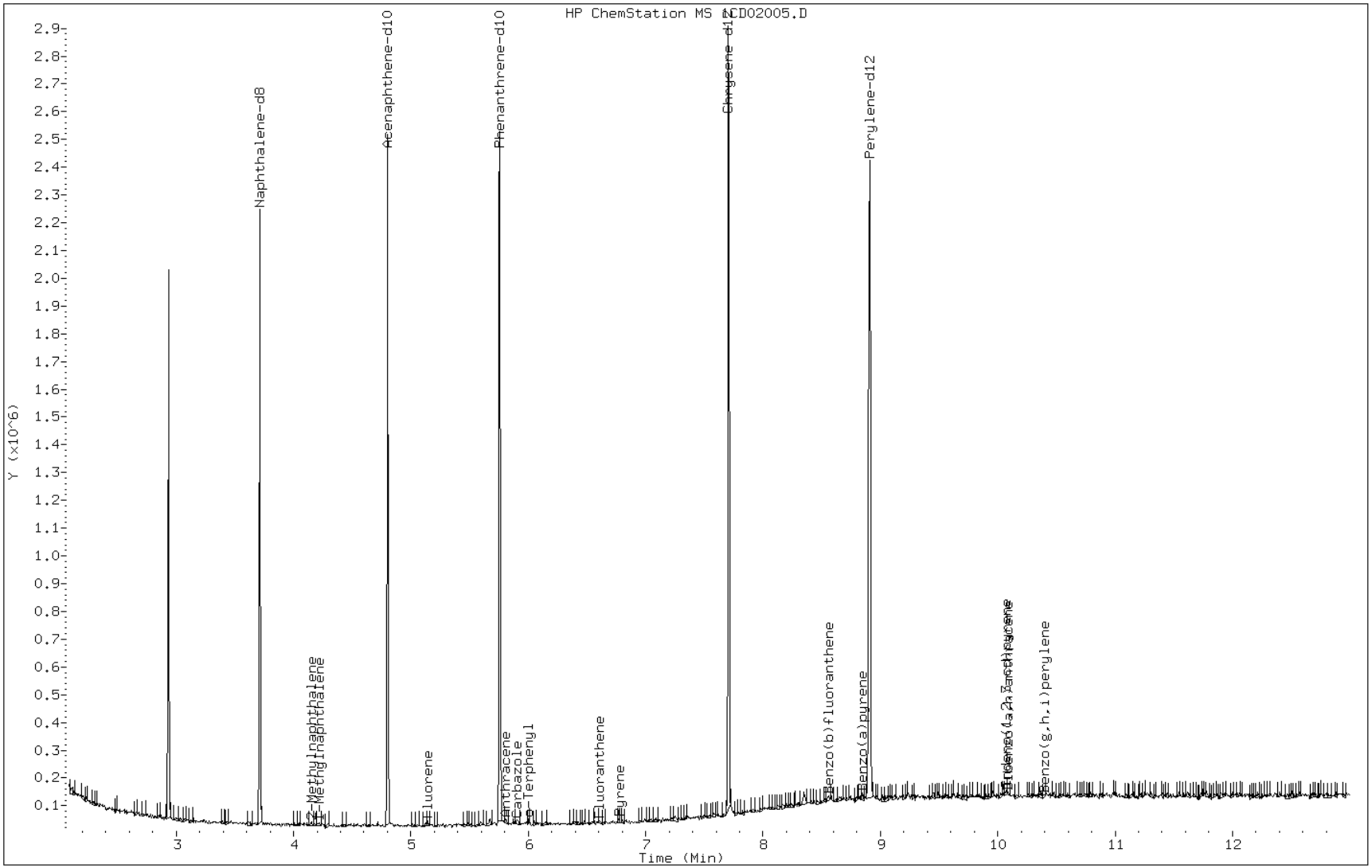
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02005.D

Date: 02-APR-2013 13:26

Client ID: Instrument: BSMC5973.i

Sample Info: IC1 Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

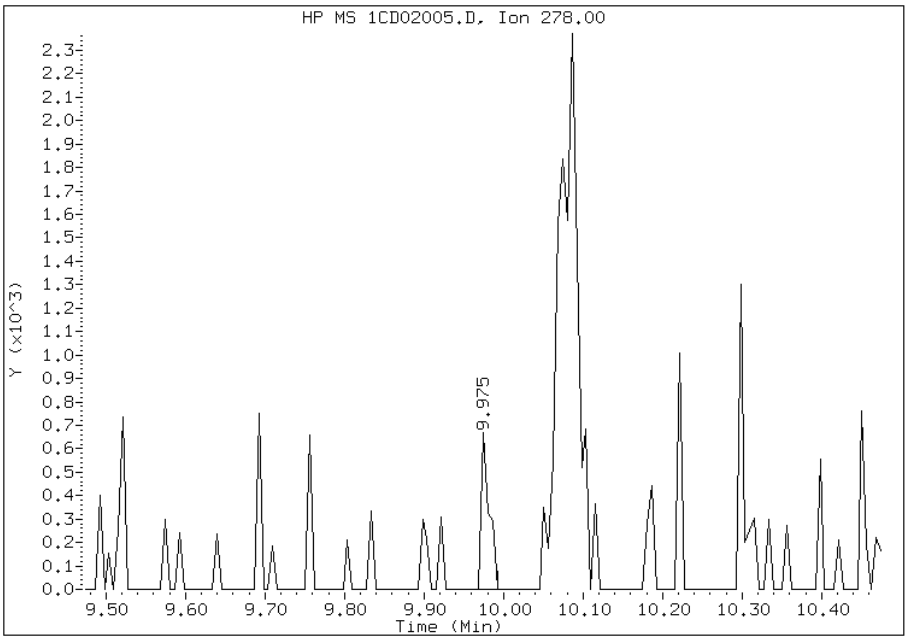
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



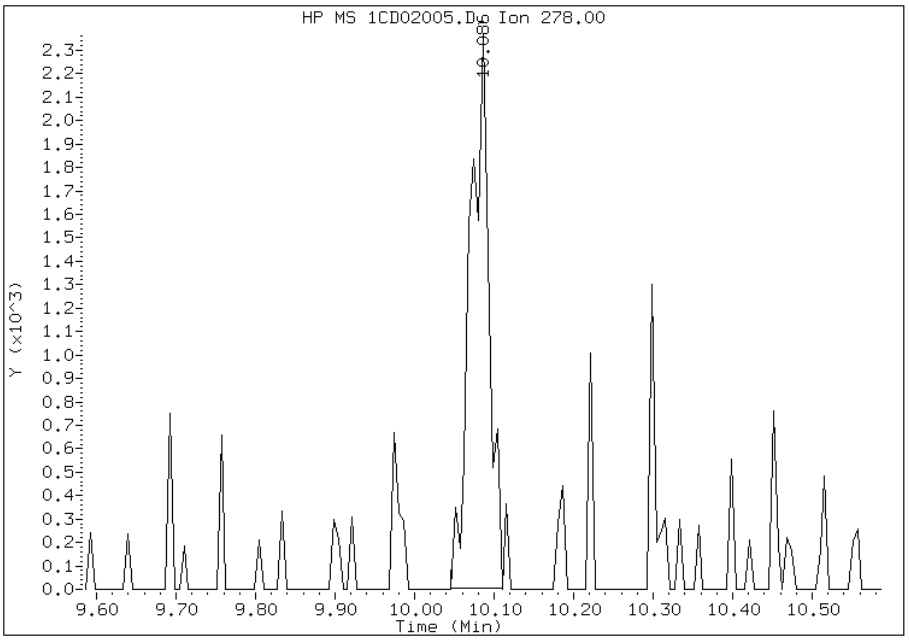
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
Lab Smp Id: IC2
Inj Date : 02-APR-2013 13:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
*	23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
	2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
	5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
	7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
	9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
	11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
	12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
	13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
	15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
	16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
	19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
	20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
	22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
	25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
	26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

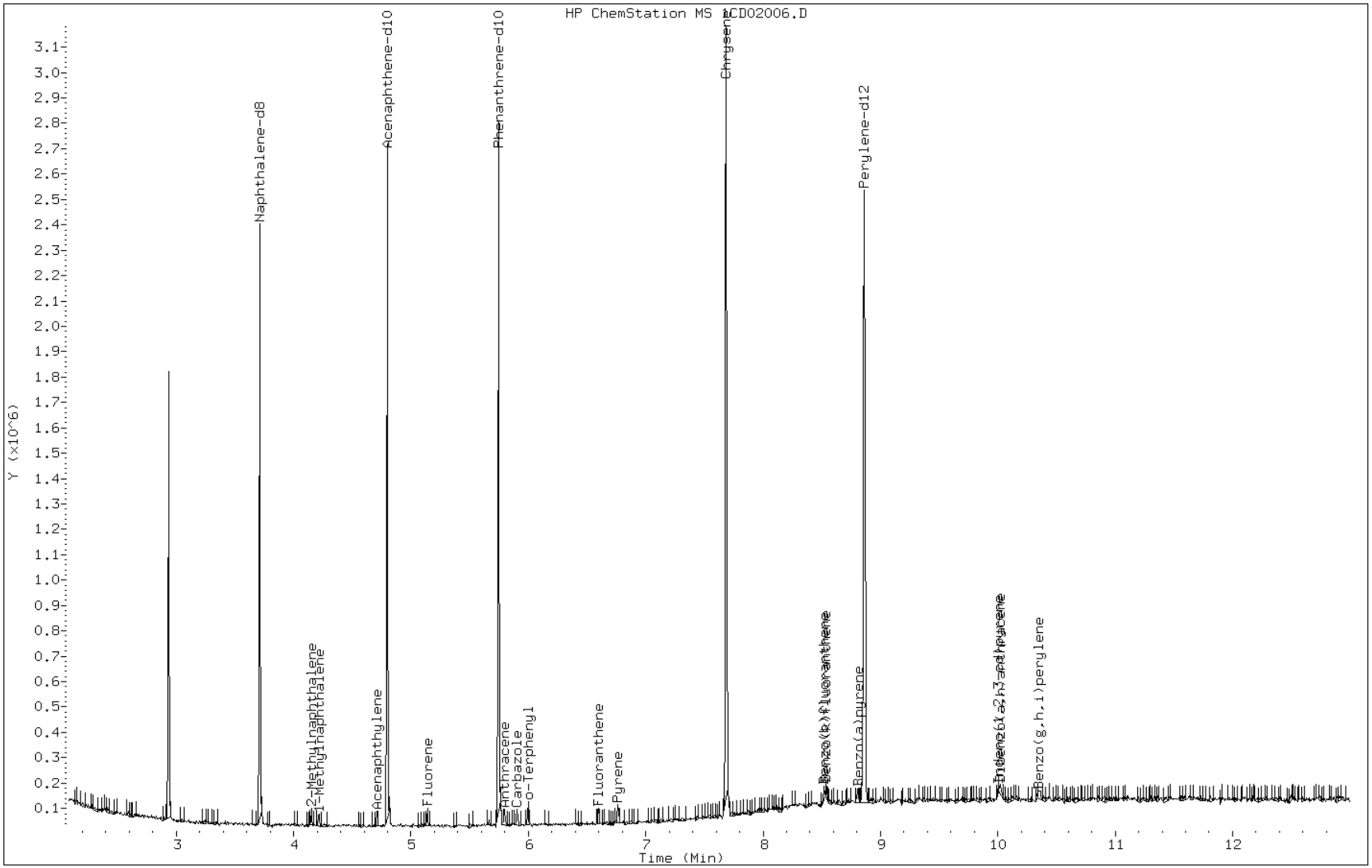
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02006.D

Date: 02-APR-2013 13:44

Client ID: Instrument: BSMC5973.i

Sample Info: IC2 Operator: SCC



Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

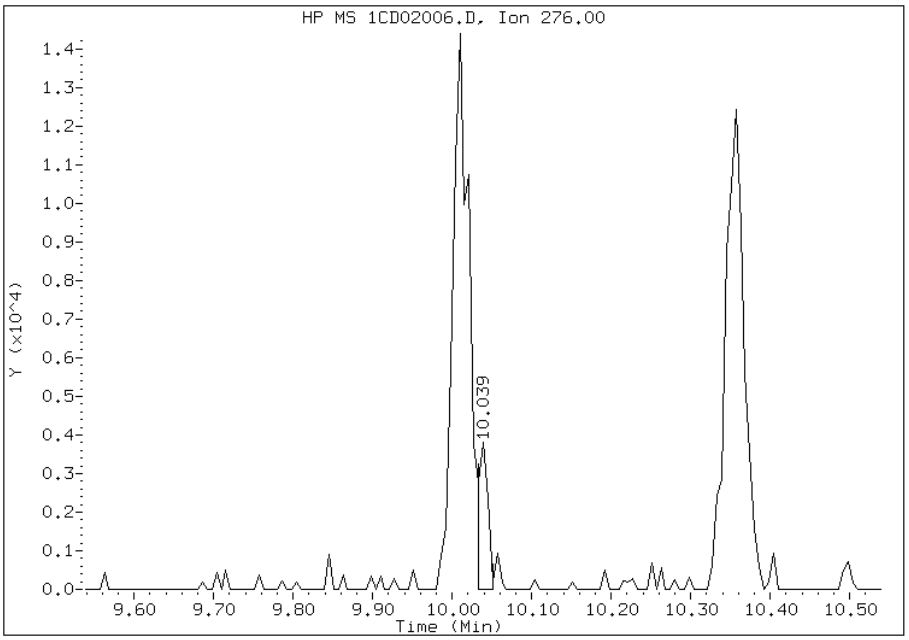
Processing Integration Results

RT: 10.04

Response: 3225

Amount: 0

Conc: 0



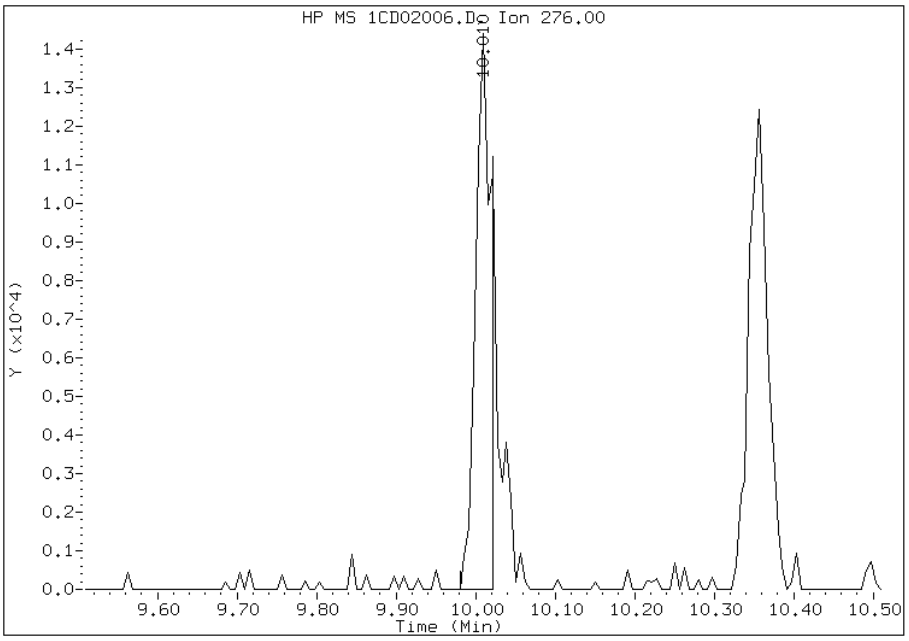
Manual Integration Results

RT: 10.01

Response: 19198

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
*	23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
	2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
	5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
	7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
	9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
	11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
	12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
	13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
	15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
	16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
	19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
	22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
	24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
	25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
	26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(H)

QC Flag Legend

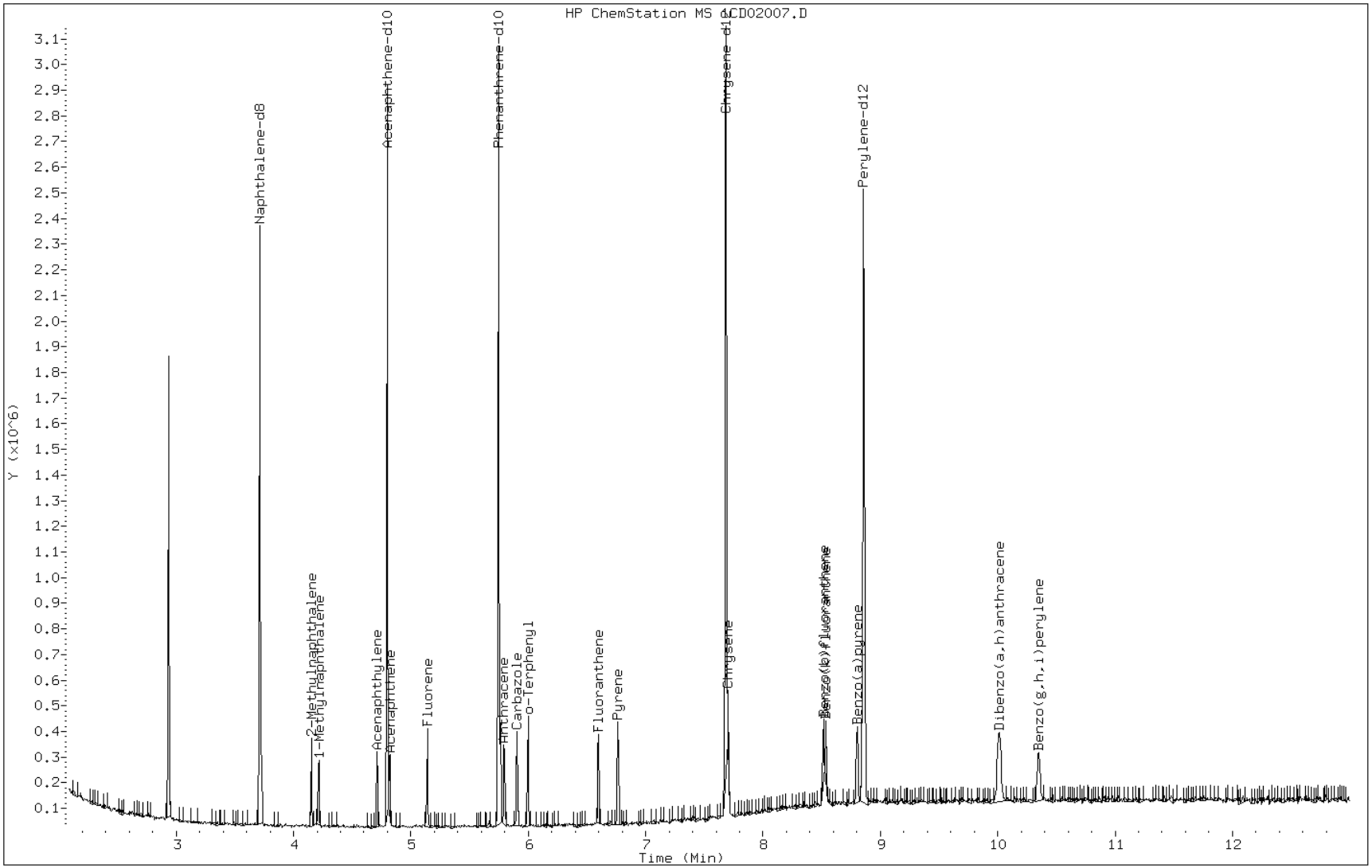
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02007.D

Date: 02-APR-2013 14:02

Client ID: Instrument: BSMC5973.i

Sample Info: IC3 Operator: SCC



Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

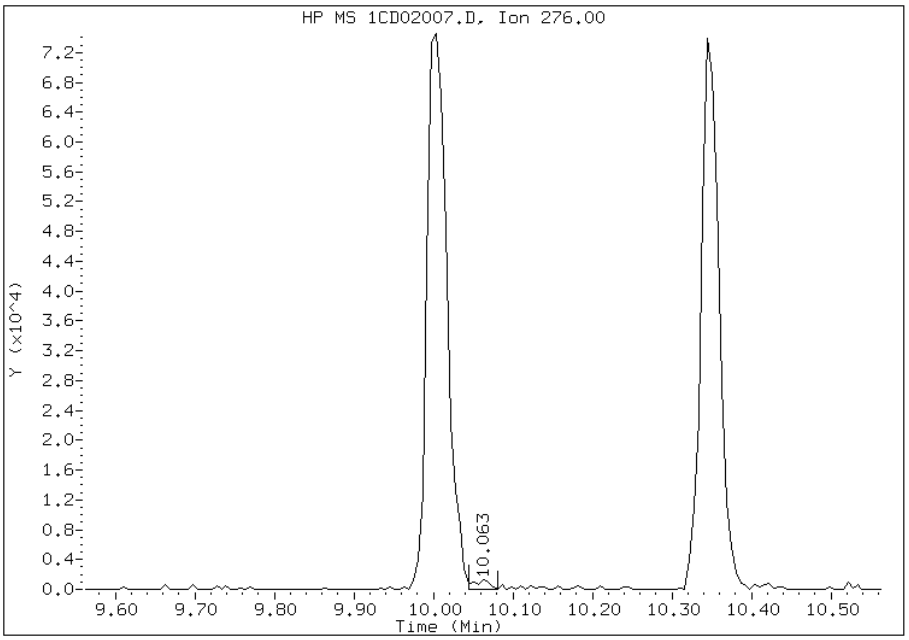
Processing Integration Results

RT: 10.06

Response: 1809

Amount: 0

Conc: 0



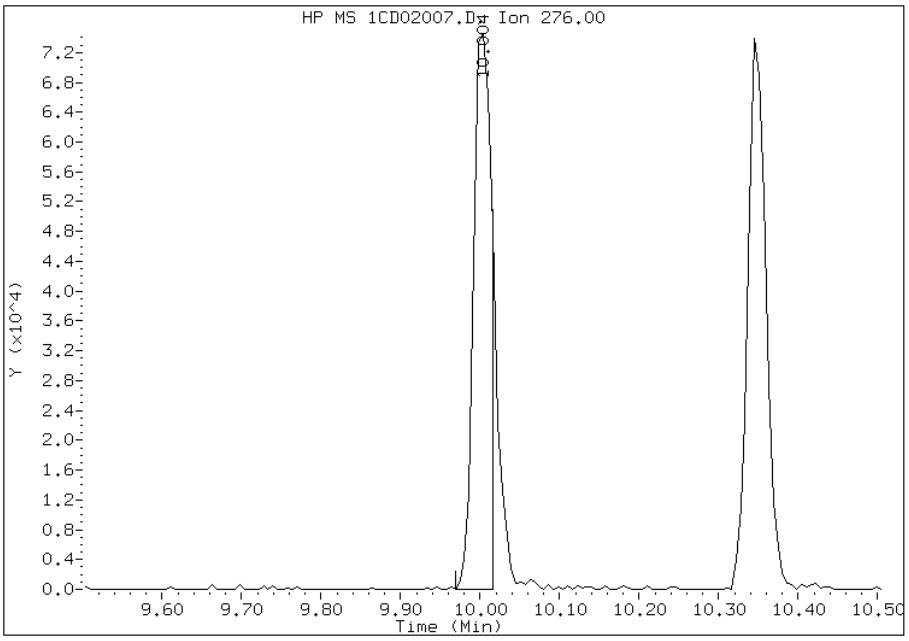
Manual Integration Results

RT: 10.00

Response: 114519

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
*	23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
	2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
	4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
	5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
	7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
	9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
	11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
	12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
	13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
	15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
	16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
	19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
	22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
	24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
	25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
	26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

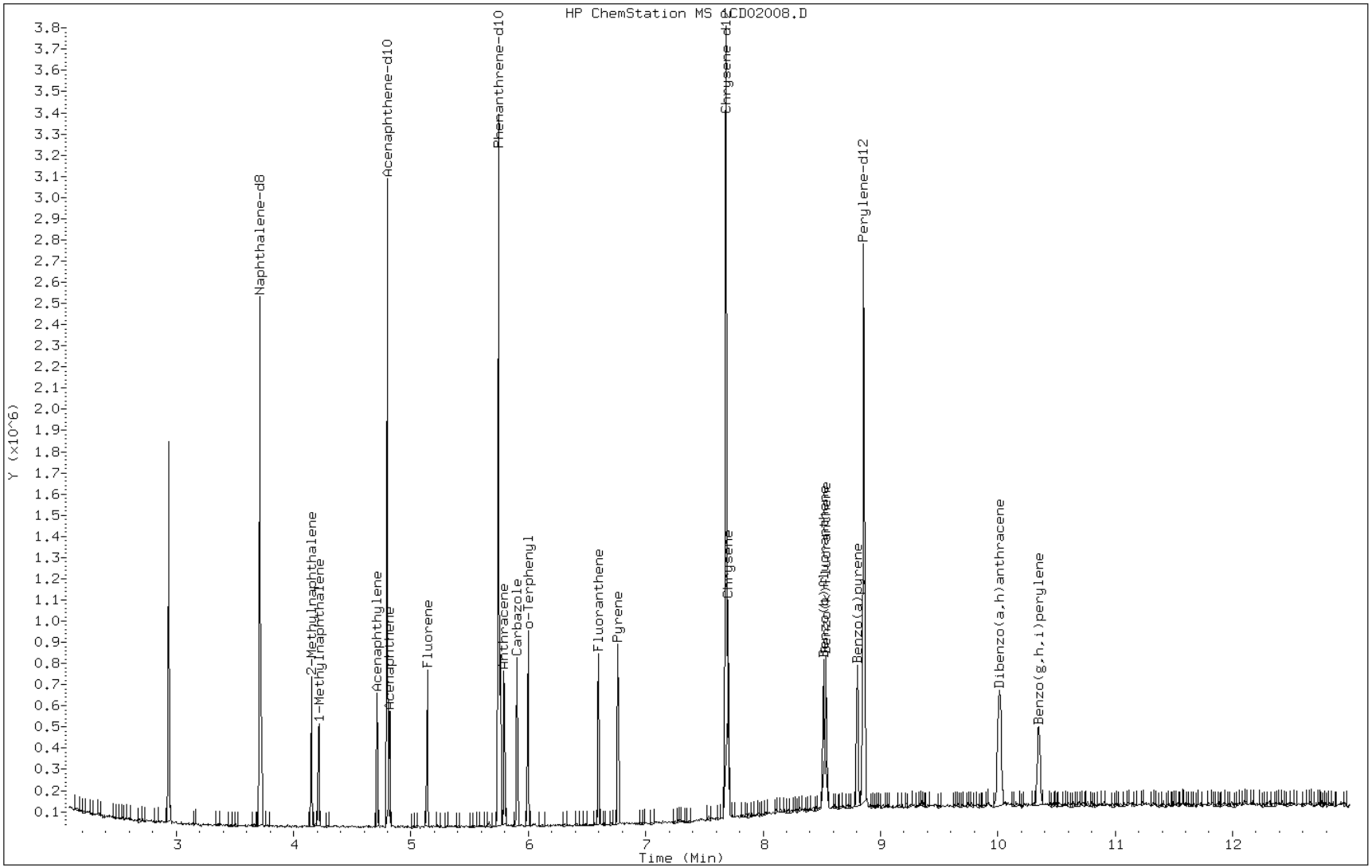
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02008.D

Date: 02-APR-2013 14:20

Client ID: Instrument: BSMC5973.i

Sample Info: IC4 Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

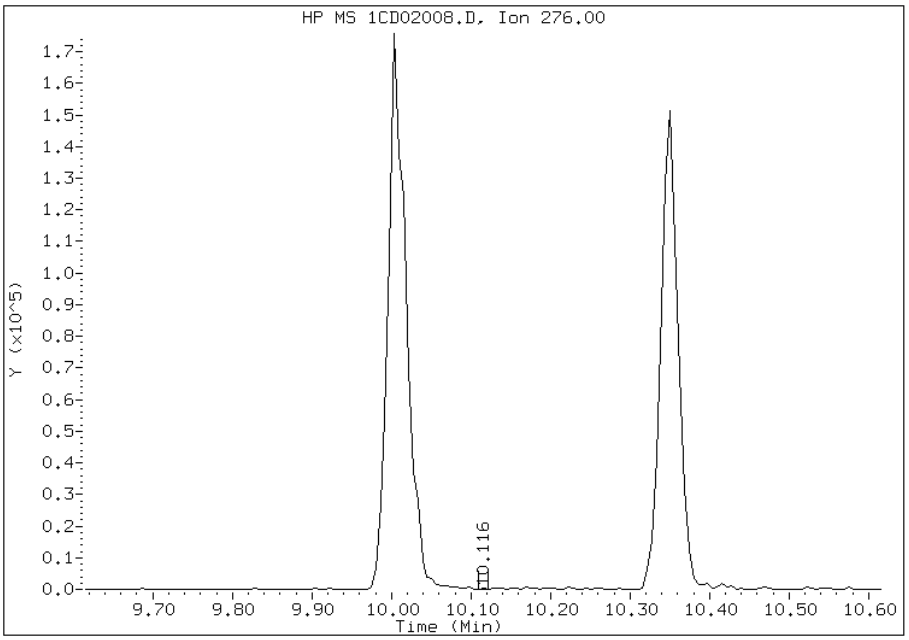
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



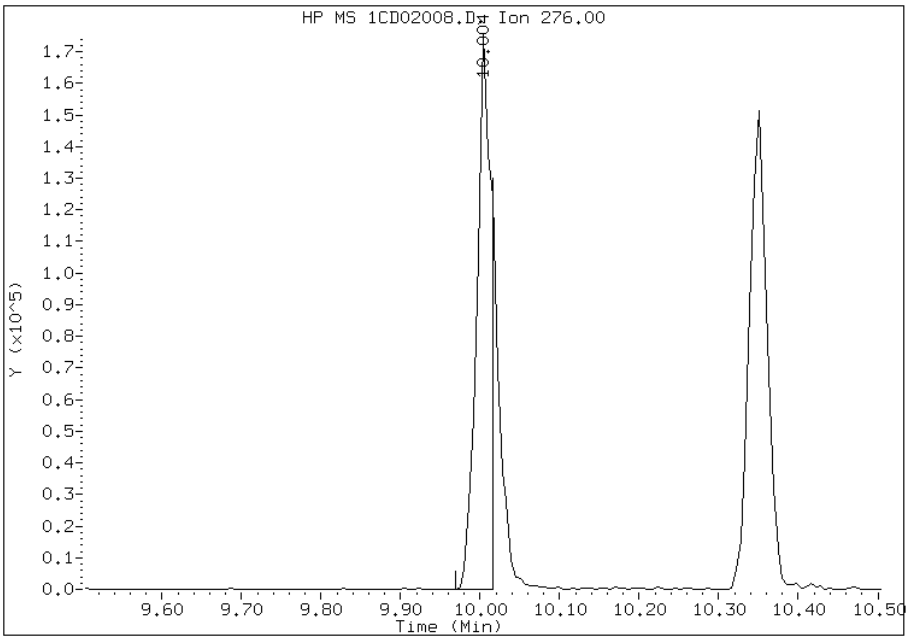
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
Lab Smp Id: IC5
Inj Date : 02-APR-2013 14:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC5
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
*	23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
	2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
	5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
	7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
	9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
	11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
	12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
	13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
	15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
	16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
	19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
	22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
	24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
	25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
	26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

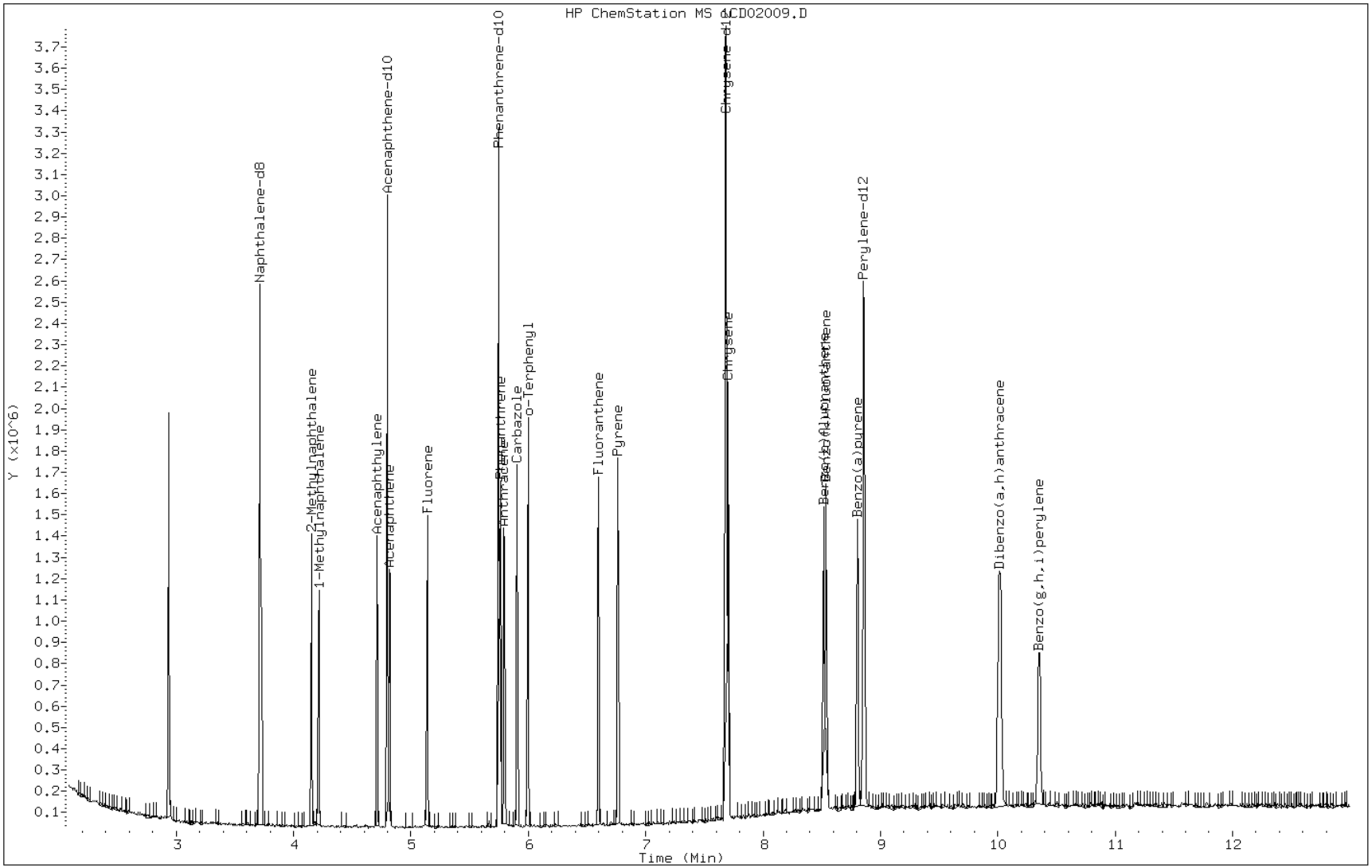
M - Compound response manually integrated.

Data File: 1CD02009.D

Date: 02-APR-2013 14:39

Client ID: Instrument: BSMC5973.i

Sample Info: IC5 Operator: SCC



Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

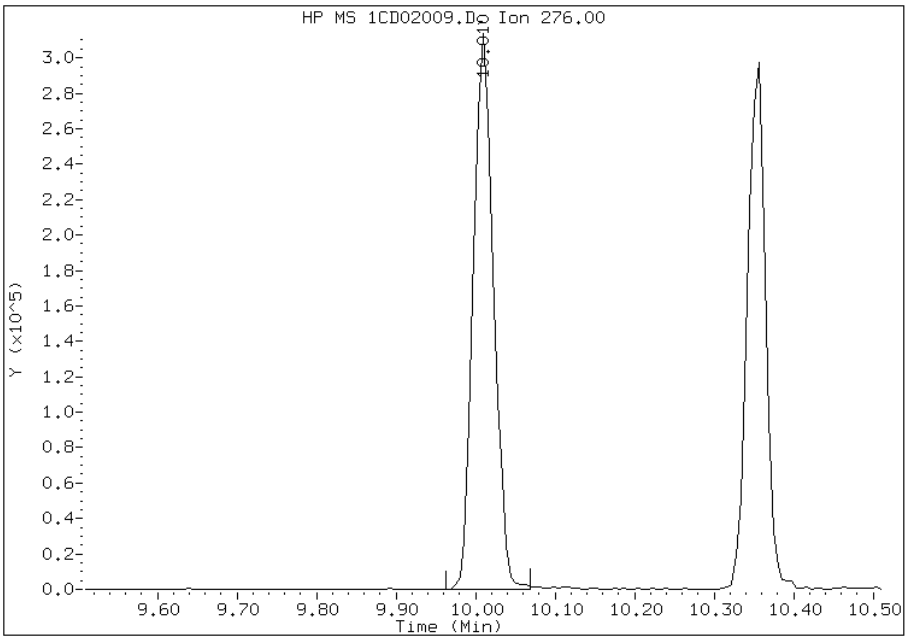
Processing Integration Results

RT: 10.01

Response: 550558

Amount: 32

Conc: 32



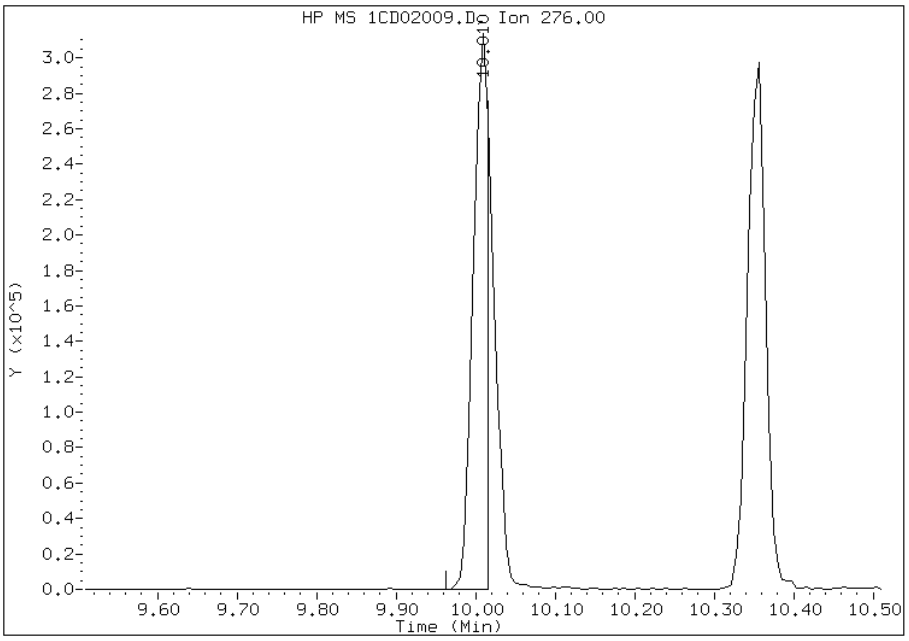
Manual Integration Results

RT: 10.01

Response: 412839

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
Lab Smp Id: IC6
Inj Date : 02-APR-2013 14:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
*	23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
	2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
	5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
	7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
	9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
	11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
	12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
	13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
	15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
	16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
	17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
	19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
	20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
	21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
	22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
	24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
	25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
	26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

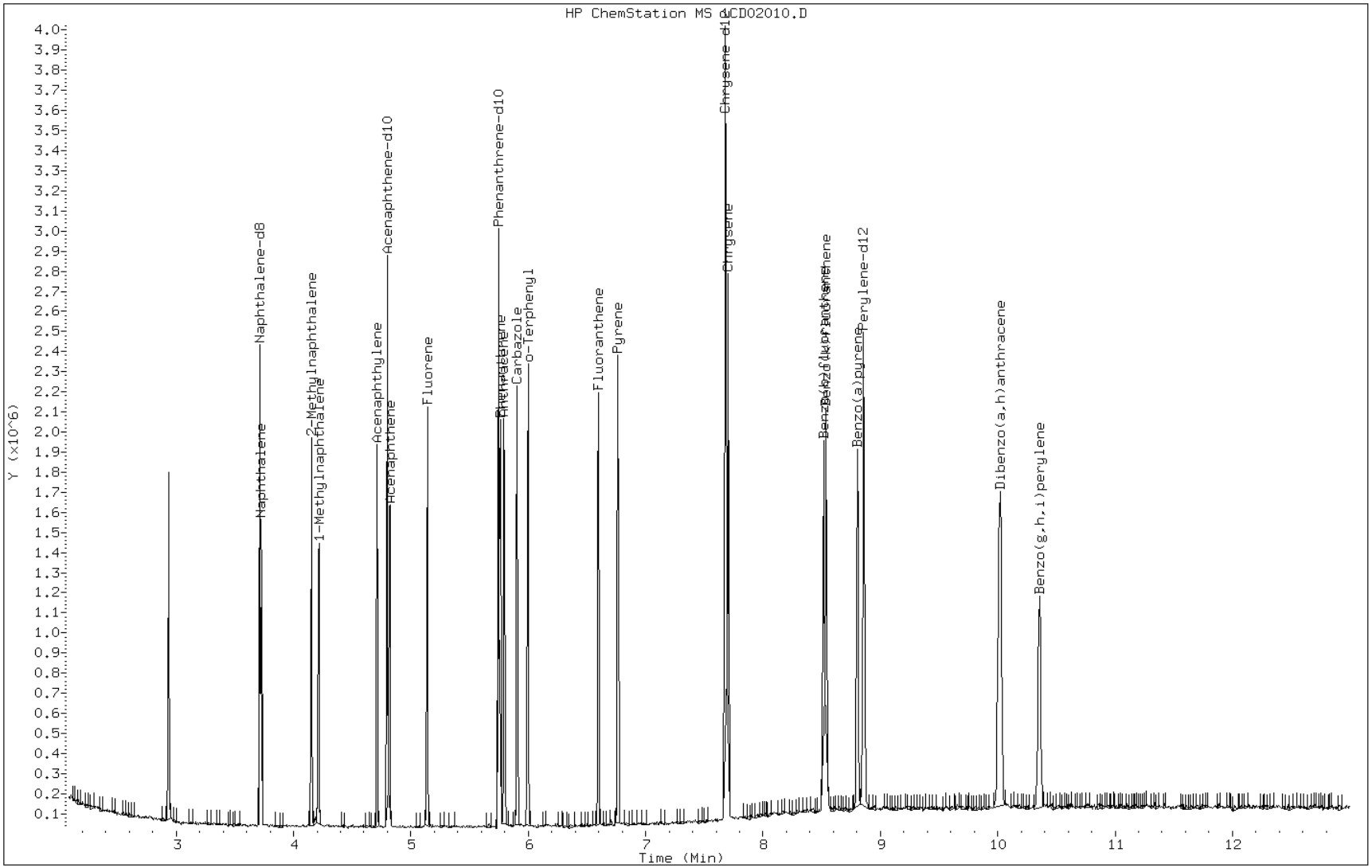
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02010.D

Date: 02-APR-2013 14:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC6 Operator: SCC



Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

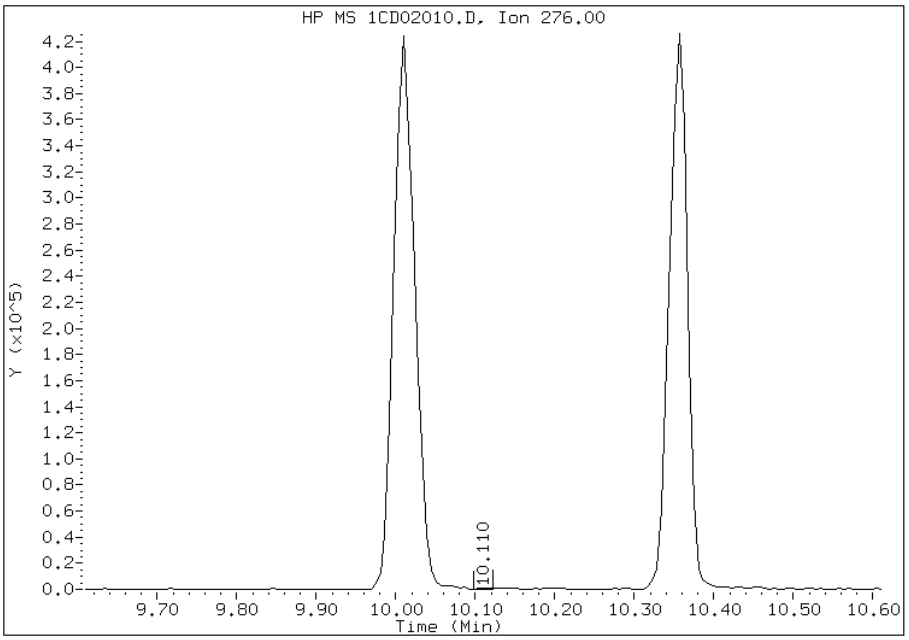
Processing Integration Results

RT: 10.11

Response: 1008

Amount: 0

Conc: 0



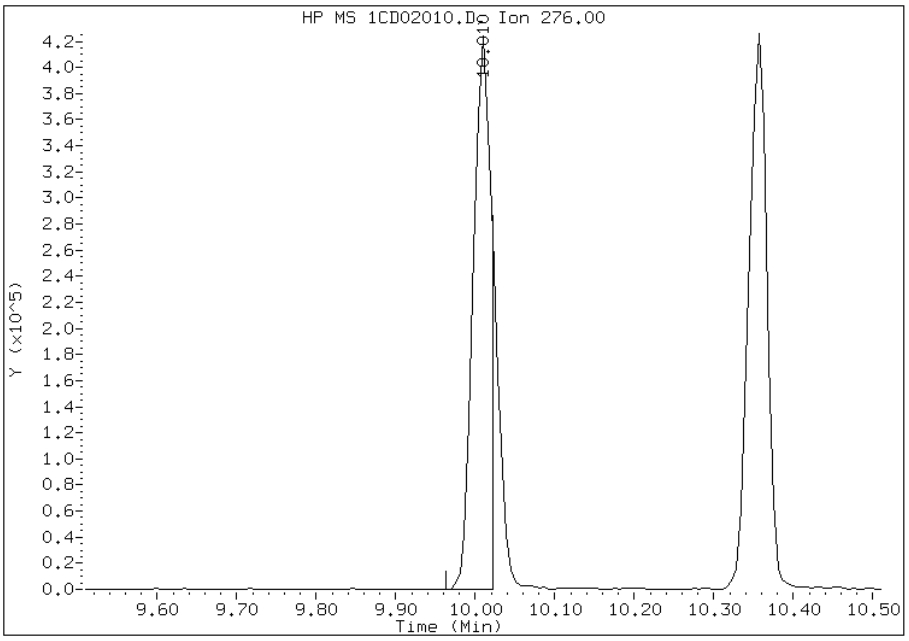
Manual Integration Results

RT: 10.01

Response: 655344

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
$	14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
*	23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
	2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
	4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
	5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
	7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
	9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
	11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
	12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
	13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
	15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
	16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
	19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
	20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
	21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
	22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
	24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
	25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
	26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

QC Flag Legend

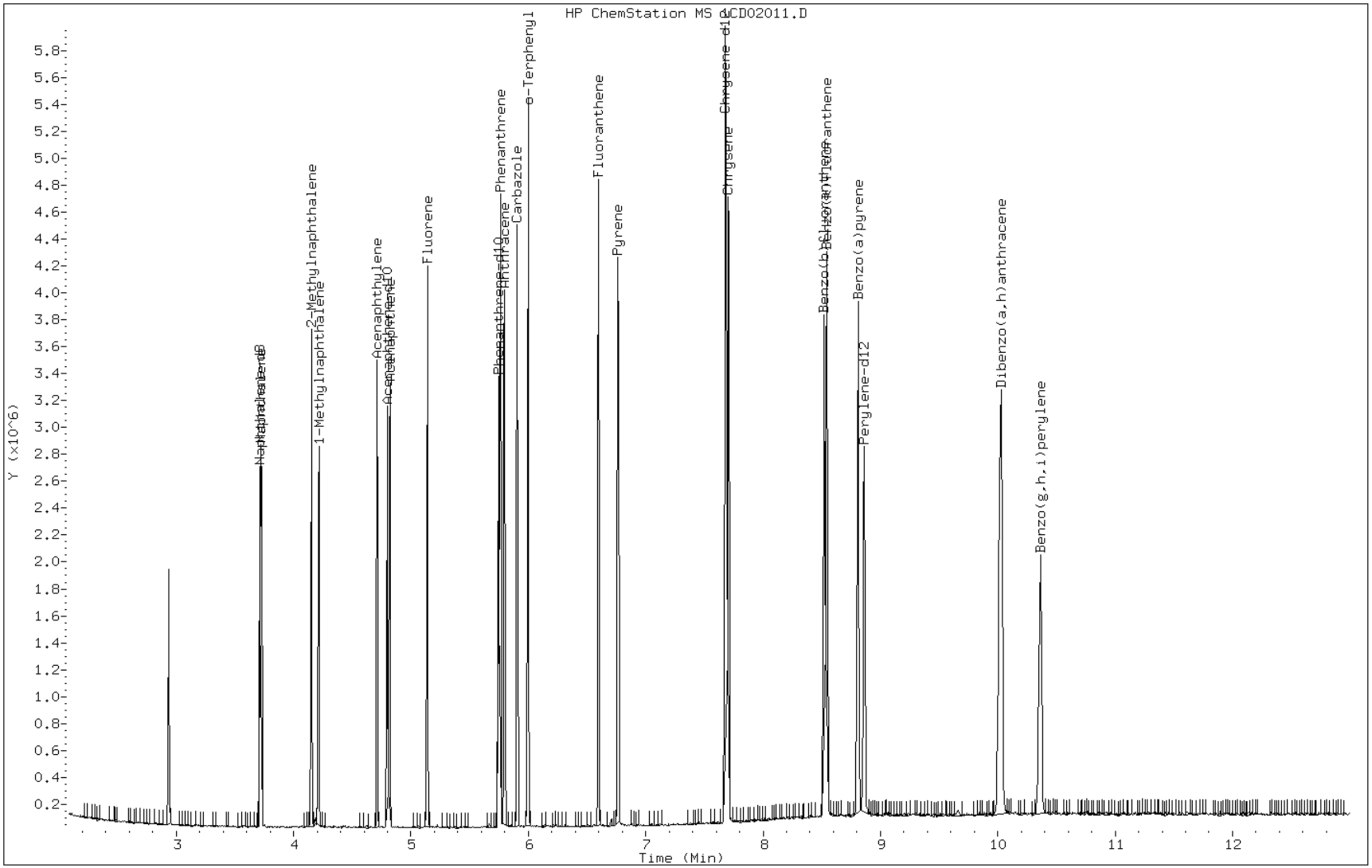
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02011.D

Date: 02-APR-2013 15:15

Client ID: Instrument: BSMC5973.i

Sample Info: IC7 Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

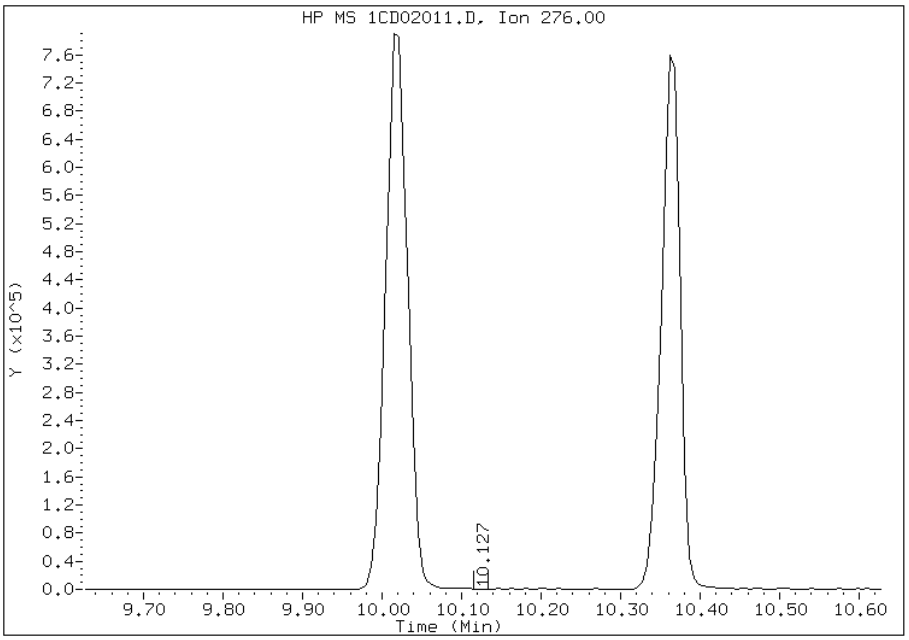
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



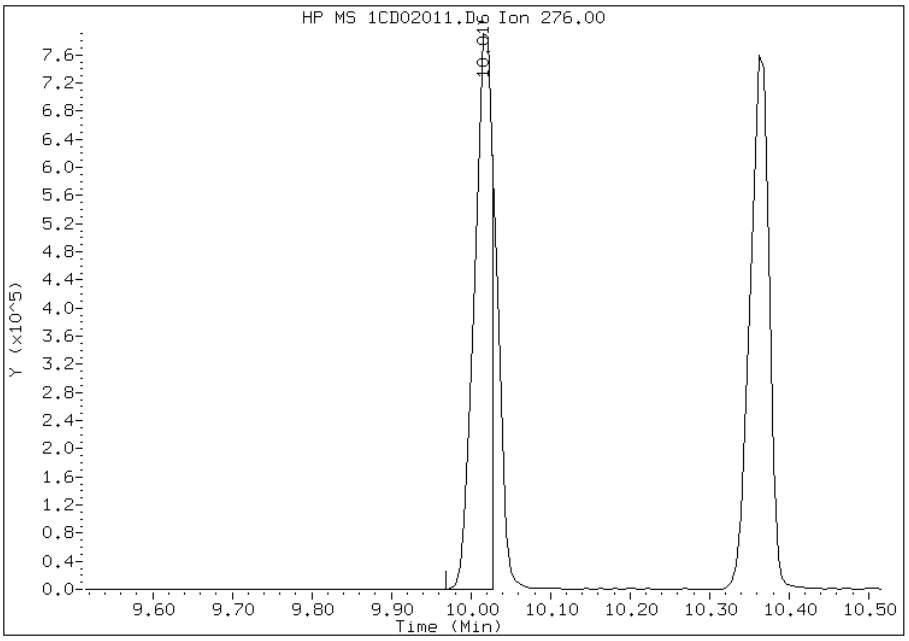
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab Sample ID: ICV 660-136269/12 Calibration Date: 04/09/2013 13:51

Instrument ID: BSMA5973 Calib Start Date: 04/09/2013 10:31

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/09/2013 12:03

Lab File ID: 1AD09012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.164	1.049	0.0000	19200	20000	-3.8	35.0
2-Methylnaphthalene	Qua	0.6769	0.6602	0.0000	21200	20000	6.1	35.0
1-Methylnaphthalene	Qua	0.7577	0.7532	0.0000	22400	20000	12.1	35.0
Acenaphthylene	Qua	2.305	2.059	0.0000	17600	20000	-12.1	35.0
Acenaphthene	Qua	1.341	1.135	0.0000	18000	20000	-10.2	35.0
Fluorene	Qua	1.676	1.477	0.0000	18300	20000	-8.3	35.0
Phenanthrene	Qua	1.294	1.095	0.0000	18000	20000	-10.1	35.0
Anthracene	Qua	1.308	1.177	0.0000	18600	20000	-6.8	35.0
Carbazole	Qua	1.209	0.9261	0.0000	15300	20000	-23.5	35.0
Fluoranthene	Qua	1.464	1.396	0.0000	19600	20000	-1.8	35.0
Pyrene	Ave	1.541	1.486	0.0000	19300	20000	-3.6	35.0
Benzo[a]anthracene	Ave	1.334	1.292	0.0000	19400	20000	-3.1	35.0
Chrysene	Ave	1.361	1.219	0.0000	17900	20000	-10.4	35.0
Benzo[b]fluoranthene	Ave	1.213	1.207	0.0000	19900	20000	-0.4	35.0
Benzo[k]fluoranthene	Ave	1.347	1.267	0.0000	18800	20000	-5.9	35.0
Benzo[a]pyrene	Lin	1.157	1.092	0.0000	18500	20000	-7.3	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.023	0.9921	0.0000	17600	20000	-12.1	35.0
Dibenz(a,h)anthracene	Ave	1.011	1.127	0.0000	22300	20000	11.4	35.0
Benzo[g,h,i]perylene	Ave	1.089	1.068	0.0000	19600	20000	-1.9	35.0
o-Terphenyl	Qua	0.7281	0.6328	0.0000	18100	20000	-9.4	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09012.D
Lab Smp Id: ICV-1448440
Inj Date : 09-APR-2013 13:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info : RE-RUN
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.592	2.591	(1.000)	1542771	40.0000	
*	6 Acenaphthene-d10	164	3.628	3.622	(1.000)	886874	40.0000	
*	10 Phenanthrene-d10	188	4.579	4.573	(1.000)	1631736	40.0000	
$	14 o-Terphenyl	230	4.883	4.877	(1.066)	516312	18.1166	18.1166
*	18 Chrysene-d12	240	6.603	6.597	(1.000)	1541115	40.0000	
*	23 Perylene-d12	264	7.692	7.676	(1.000)	1781032	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	808850	19.2380	19.2380
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	509252	21.2238	21.2238
	4 1-Methylnaphthalene	142	3.062	3.062	(1.181)	580975	22.4261	22.4260
	5 Acenaphthylene	152	3.537	3.532	(0.975)	913033	17.5706	17.5705
	7 Acenaphthene	154	3.644	3.638	(1.004)	503207	17.9564	17.9564
	9 Fluorene	166	3.959	3.953	(1.091)	655022	18.3313	18.3312
	11 Phenanthrene	178	4.595	4.589	(1.003)	893498	17.9753	17.9753
	12 Anthracene	178	4.627	4.626	(1.010)	960125	18.6315	18.6314
	13 Carbazole	167	4.755	4.755	(1.038)	755565	15.2994	15.2993
	15 Fluoranthene	202	5.460	5.454	(1.192)	1138837	19.6352	19.6352
	16 Pyrene	202	5.625	5.620	(0.852)	1145036	19.2813	19.2813

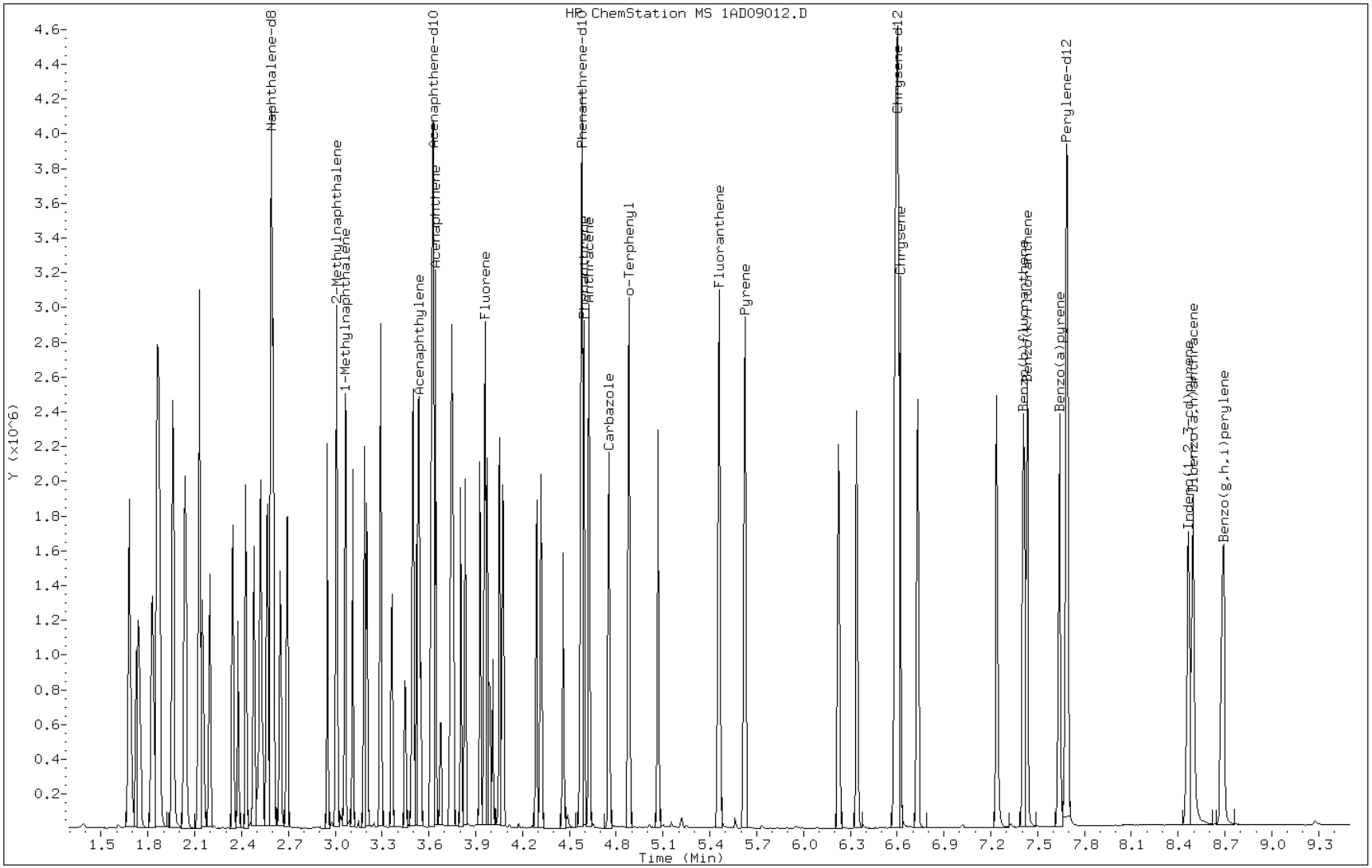
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Benzo(a)anthracene	228	6.587	6.581	(0.998)	995754	19.3701	19.3700
19 Chrysene	228	6.619	6.613	(1.002)	939490	17.9191	17.9191
20 Benzo(b)fluoranthene	252	7.409	7.404	(0.963)	1075235	19.9103	19.9102
21 Benzo(k)fluoranthene	252	7.431	7.425	(0.966)	1128299	18.8114	18.8113
22 Benzo(a)pyrene	252	7.639	7.628	(0.993)	972005	18.5371	18.5371
24 Indeno(1,2,3-cd)pyrene	276	8.467	8.451	(1.101)	883515	17.5805	17.5804
25 Dibenzo(a,h)anthracene	278	8.499	8.477	(1.105)	1003330	22.2828	22.2828
26 Benzo(g,h,i)perylene	276	8.691	8.670	(1.130)	951427	19.6134	19.6134

Data File: 1AD09012.D

Date: 09-APR-2013 13:51

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	3.710	3.710	(1.000)	649122	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
* 23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
19 Chrysene	228	7.704	7.710	(1.002)	544600	15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649	15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474	16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495	15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166	17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427	18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199	16.6490	16.6490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02012.D

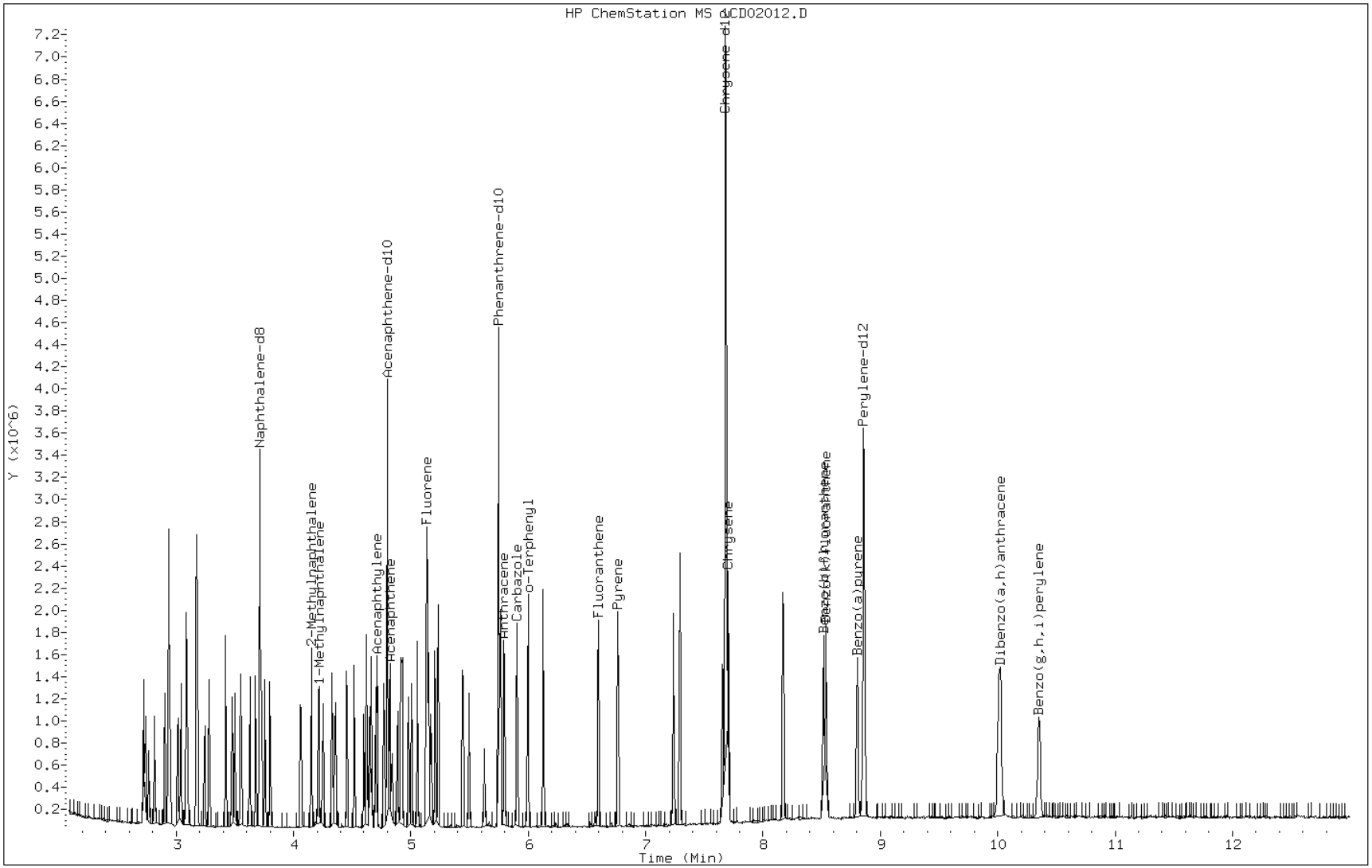
Date: 02-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

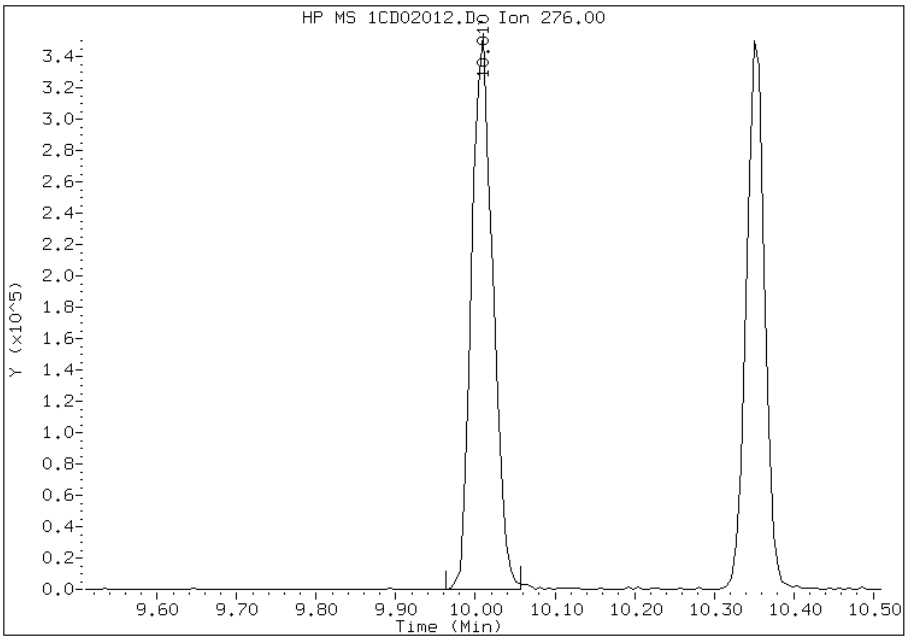
Processing Integration Results

RT: 10.01

Response: 653584

Amount: 20

Conc: 20



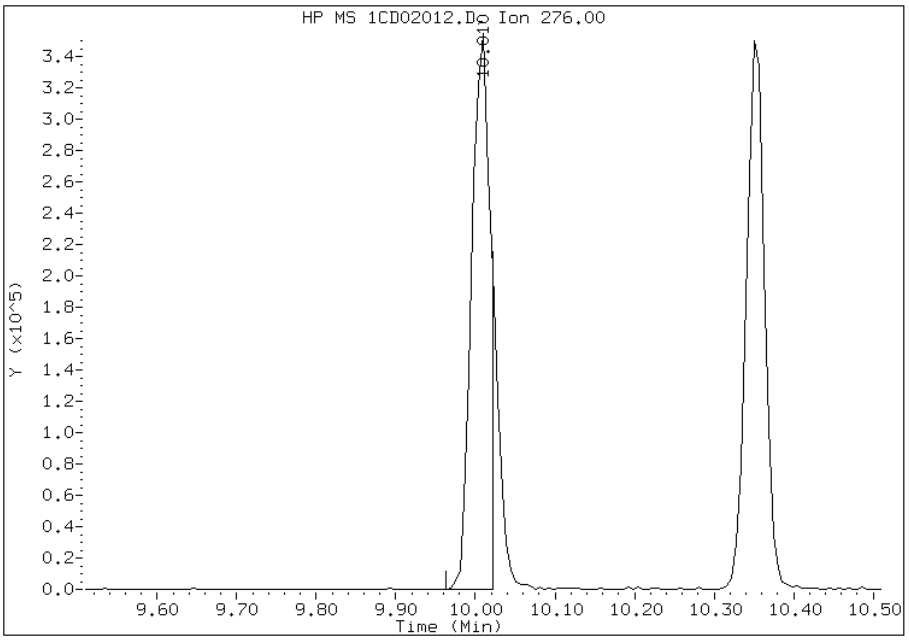
Manual Integration Results

RT: 10.01

Response: 571166

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab Sample ID: CCVIS 660-136271/3 Calibration Date: 04/08/2013 12:56

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD08003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.057	0.0000	20600	20000	2.9	20.0
2-Methylnaphthalene	Ave	0.6994	0.6534	0.0000	18700	20000	-6.6	20.0
1-Methylnaphthalene	Ave	0.6293	0.6576	0.0000	20900	20000	4.5	20.0
Acenaphthylene	Ave	1.656	1.709	0.0000	20600	20000	3.2	20.0
Acenaphthene	Lin	1.025	1.015	0.0000	19800	20000	-1.0	20.0
Fluorene	Ave	1.367	1.279	0.0000	18700	20000	-6.5	20.0
Phenanthrene	Ave	1.165	1.208	0.0000	20700	20000	3.7	20.0
Anthracene	Ave	1.181	1.203	0.0000	20400	20000	1.8	20.0
Carbazole	Ave	1.012	1.033	0.0000	20400	20000	2.1	20.0
Fluoranthene	Ave	1.287	1.339	0.0000	20800	20000	4.0	20.0
Pyrene	Ave	1.108	1.173	0.0000	21200	20000	5.8	20.0
Benzo[a]anthracene	Lin	1.278	1.085	0.0000	18900	20000	-5.7	20.0
Chrysene	Ave	1.140	1.128	0.0000	19800	20000	-1.0	20.0
Benzo[b]fluoranthene	Ave	1.131	1.060	0.0000	18800	20000	-6.2	20.0
Benzo[k]fluoranthene	Ave	1.094	1.229	0.0000	22500	20000	12.3	20.0
Benzo[a]pyrene	Ave	1.065	1.059	0.0000	19900	20000	-0.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.090	0.0000	21600	20000	7.8	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9360	0.0000	20000	20000	0.2	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9889	0.0000	19200	20000	-4.2	20.0
o-Terphenyl	Lin	0.6233	0.6396	0.0000	20300	20000	1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 08-APR-2013 12:56
Operator : TP Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM-VM7N

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.692	3.692	(1.000)	417933	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	297412	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	556083	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	177839	20.0000	20.3184
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	686748	40.0000	
*	23 Perylene-d12	264	8.821	8.821	(1.000)	698341	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	220939	20.0000	20.5821
	3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	136544	20.0000	18.6863
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	137423	20.0000	20.9007
	5 Acenaphthylene	152	4.686	4.686	(0.982)	254126	20.0000	20.6452
	7 Acenaphthene	154	4.798	4.798	(1.005)	150879	20.0000	19.7902
	9 Fluorene	166	5.115	5.115	(1.071)	190125	20.0000	18.7068
	11 Phenanthrene	178	5.739	5.739	(1.003)	336001	20.0000	20.7462
	12 Anthracene	178	5.768	5.768	(1.008)	334424	20.0000	20.3697
	13 Carbazole	167	5.880	5.880	(1.028)	287155	20.0000	20.4151
	15 Fluoranthene	202	6.568	6.568	(1.148)	372208	20.0000	20.8098
	16 Pyrene	202	6.739	6.739	(0.880)	402664	20.0000	21.1667
	17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	372426	20.0000	18.8519
	19 Chrysene	228	7.674	7.674	(1.002)	387417	20.0000	19.7971
	20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	370190	20.0000	18.7507
	21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	429043	20.0000	22.4691
	22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	369840	20.0000	19.8974
	24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	380593	20.0000	21.5579(M)
	25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	326832	20.0000	20.0405
	26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	345300	20.0000	19.1637

QC Flag Legend

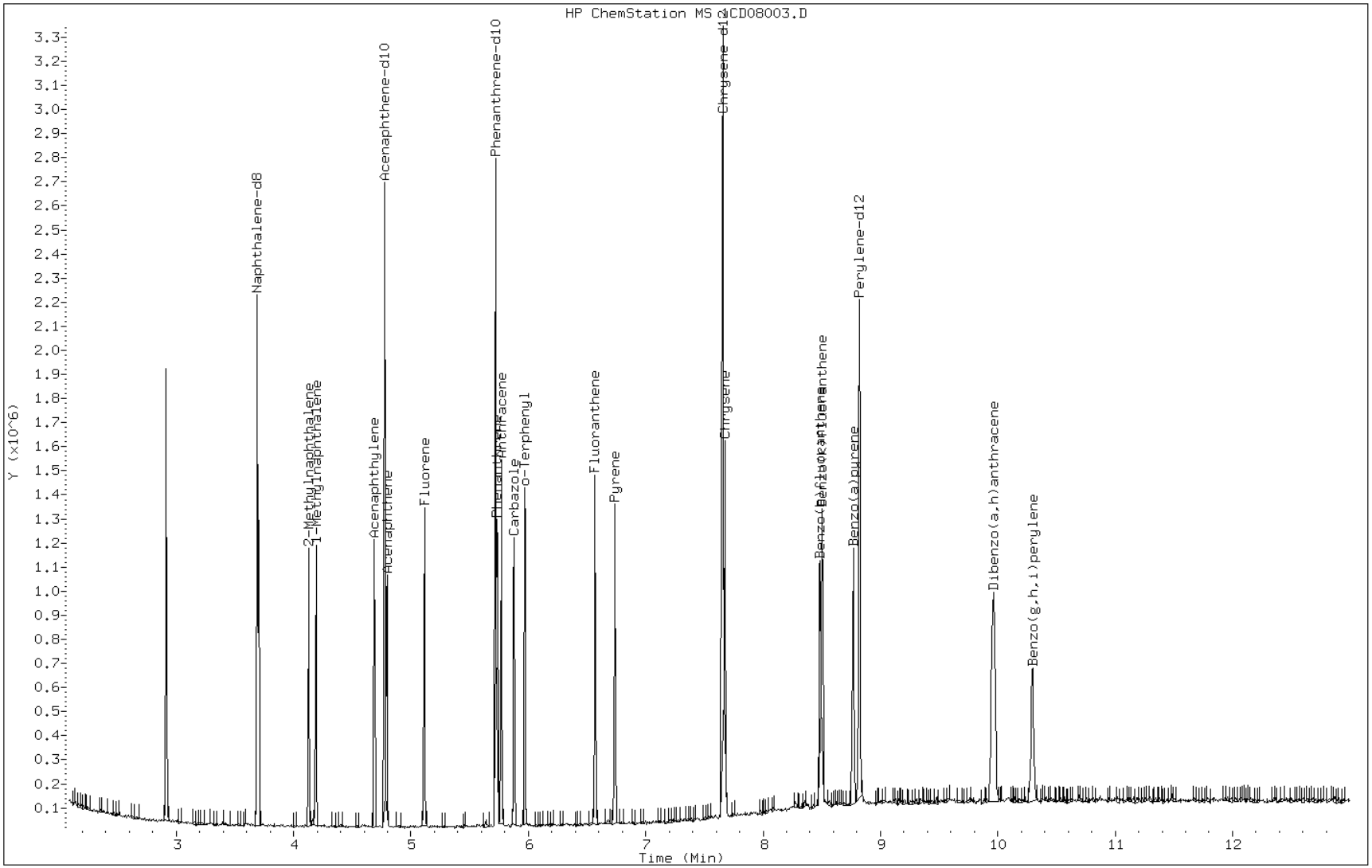
M - Compound response manually integrated.

Data File: 1CD08003.D

Date: 08-APR-2013 12:56

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: TP



Manual Integration Report

Data File: 1CD08003.D
Inj. Date and Time: 08-APR-2013 12:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

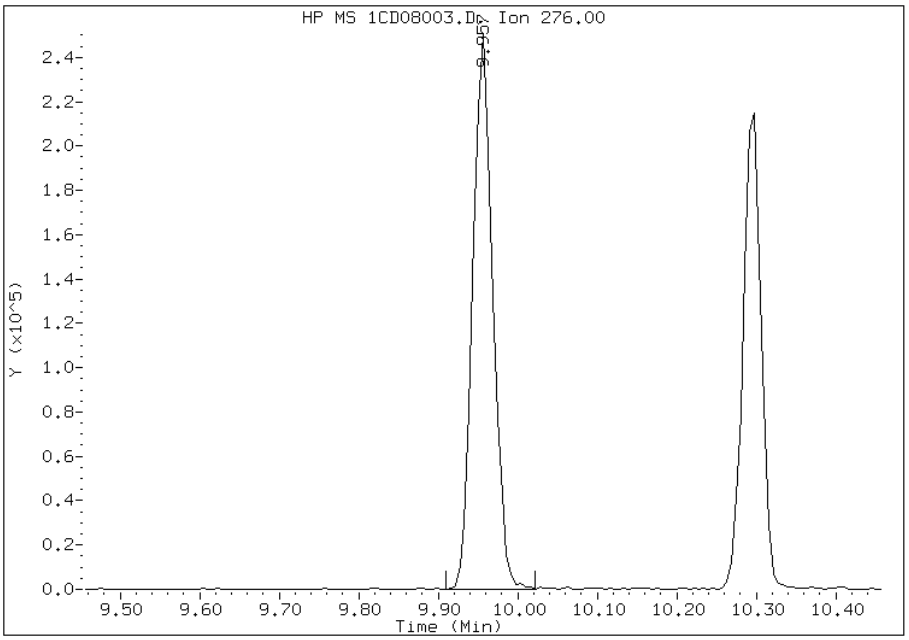
Processing Integration Results

RT: 9.96

Response: 433671

Amount: 25

Conc: 25



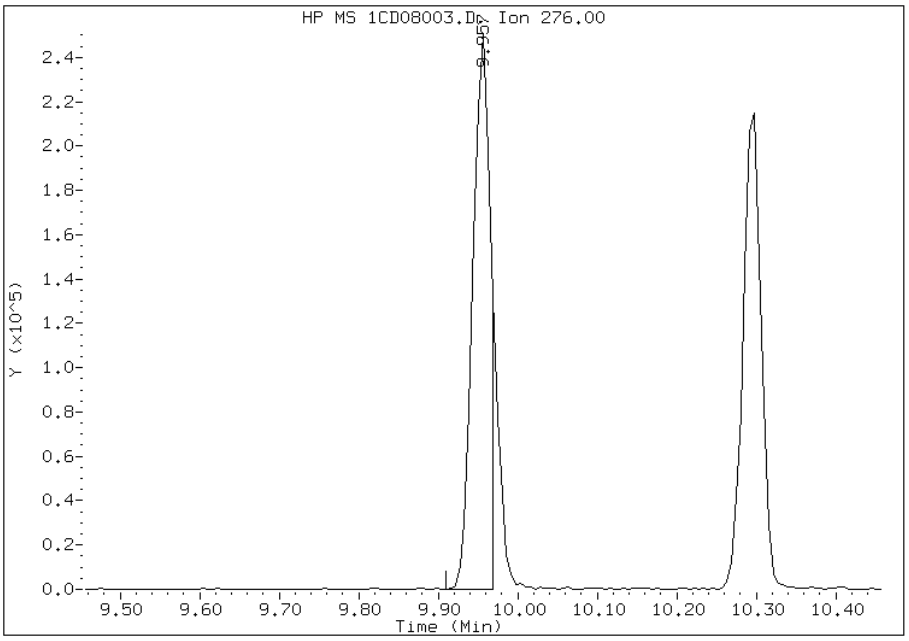
Manual Integration Results

RT: 9.96

Response: 380593

Amount: 22

Conc: 22



Manually Integrated By: perrint
Modification Date: 08-Apr-2013 13:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab Sample ID: CCVIS 660-136263/3 Calibration Date: 04/09/2013 11:47

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD09003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.053	0.0000	20500	20000	2.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.6932	0.0000	19800	20000	-0.9	20.0
1-Methylnaphthalene	Ave	0.6293	0.6412	0.0000	20400	20000	1.9	20.0
Acenaphthylene	Ave	1.656	1.668	0.0000	20100	20000	0.7	20.0
Acenaphthene	Lin	1.025	0.9583	0.0000	18700	20000	-6.5	20.0
Fluorene	Ave	1.367	1.371	0.0000	20100	20000	0.3	20.0
Phenanthrene	Ave	1.165	1.134	0.0000	19500	20000	-2.7	20.0
Anthracene	Ave	1.181	1.155	0.0000	19600	20000	-2.2	20.0
Carbazole	Ave	1.012	1.021	0.0000	20200	20000	0.9	20.0
Fluoranthene	Ave	1.287	1.312	0.0000	20400	20000	2.0	20.0
Pyrene	Ave	1.108	1.129	0.0000	20400	20000	1.9	20.0
Benzo[a]anthracene	Lin	1.278	1.083	0.0000	18800	20000	-5.9	20.0
Chrysene	Ave	1.140	1.120	0.0000	19700	20000	-1.7	20.0
Benzo[b]fluoranthene	Ave	1.131	1.186	0.0000	21000	20000	4.9	20.0
Benzo[k]fluoranthene	Ave	1.094	1.154	0.0000	21100	20000	5.5	20.0
Benzo[a]pyrene	Ave	1.065	1.059	0.0000	19900	20000	-0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9173	0.0000	18100	20000	-9.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9301	0.0000	19900	20000	-0.4	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9894	0.0000	19200	20000	-4.1	20.0
o-Terphenyl	Lin	0.6233	0.6038	0.0000	19200	20000	-3.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 09-APR-2013 11:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	357710	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	263195	40.0000	
*	10 Phenanthrene-d10	188	5.716	5.716	(1.000)	531432	40.0000	(H)
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	160437	20.0000	19.2211
*	18 Chrysene-d12	240	7.657	7.657	(1.000)	649492	40.0000	
*	23 Perylene-d12	264	8.827	8.827	(1.000)	642611	40.0000	(H)
	2 Naphthalene	128	3.698	3.698	(1.003)	188263	20.0000	20.4907
	3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	123987	20.0000	19.8245
	4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	114686	20.0000	20.3792
	5 Acenaphthylene	152	4.686	4.686	(0.982)	219463	20.0000	20.1471
	7 Acenaphthene	154	4.792	4.792	(1.004)	126111	20.0000	18.6920
	9 Fluorene	166	5.110	5.110	(1.070)	180366	20.0000	20.0537
	11 Phenanthrene	178	5.733	5.733	(1.003)	301210	20.0000	19.4608(H)
	12 Anthracene	178	5.768	5.768	(1.009)	306920	20.0000	19.5616(H)
	13 Carbazole	167	5.874	5.874	(1.028)	271183	20.0000	20.1739(H)
	15 Fluoranthene	202	6.568	6.568	(1.149)	348726	20.0000	20.4013(H)
	16 Pyrene	202	6.733	6.733	(0.879)	366676	20.0000	20.3805
	17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	351642	20.0000	18.8211
	19 Chrysene	228	7.674	7.674	(1.002)	363844	20.0000	19.6590
	20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	381044	20.0000	20.9743(H)
	21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	370749	20.0000	21.1001
	22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	340105	20.0000	19.8845(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	294723	20.0000	18.1418(MH)
	25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.130)	298832	20.0000	19.9128(H)
	26 Benzo(g,h,i)perylene	276	10.298	10.298	(1.167)	317908	20.0000	19.1736(H)

QC Flag Legend

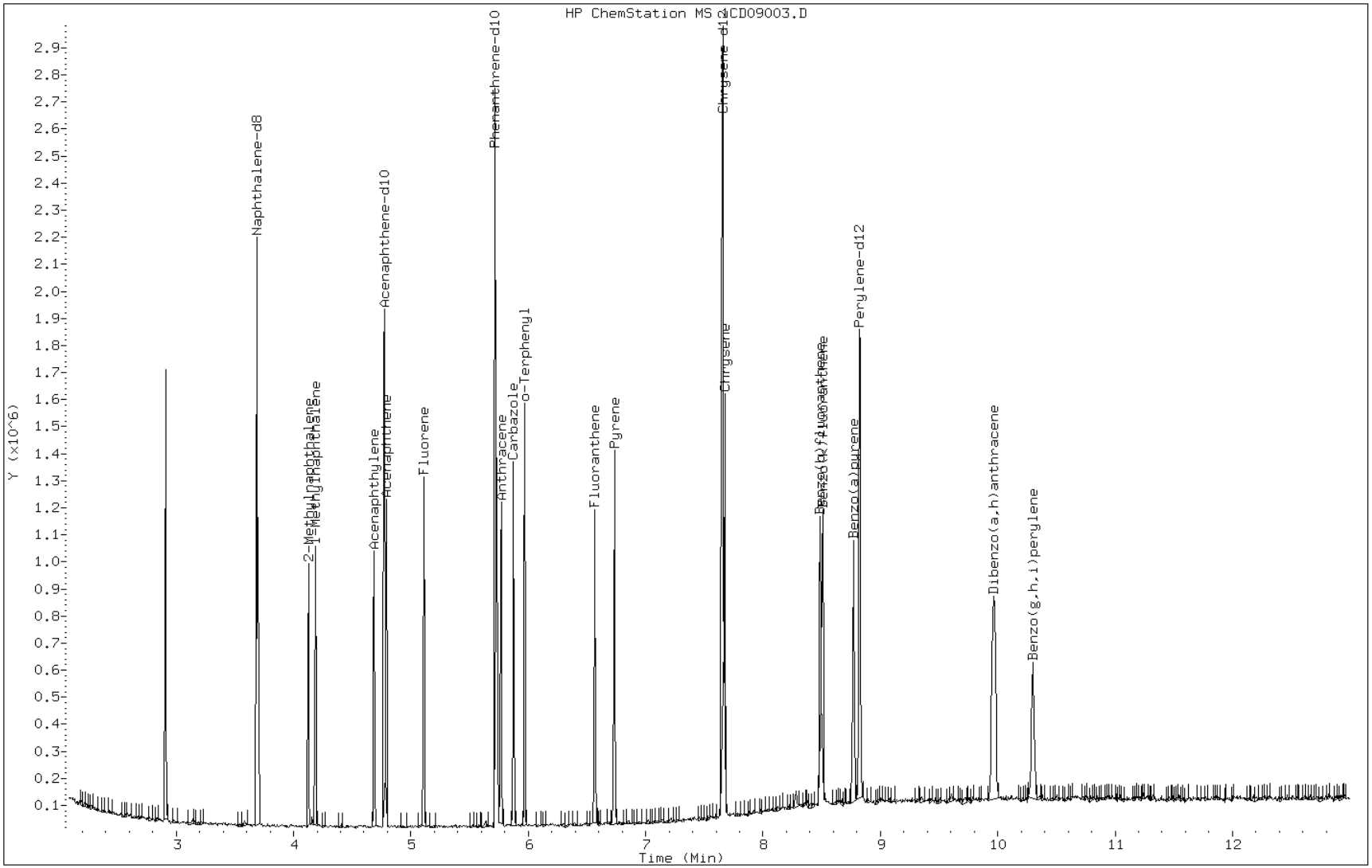
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD09003.D

Date: 09-APR-2013 11:47

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD09003.D
Inj. Date and Time: 09-APR-2013 11:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

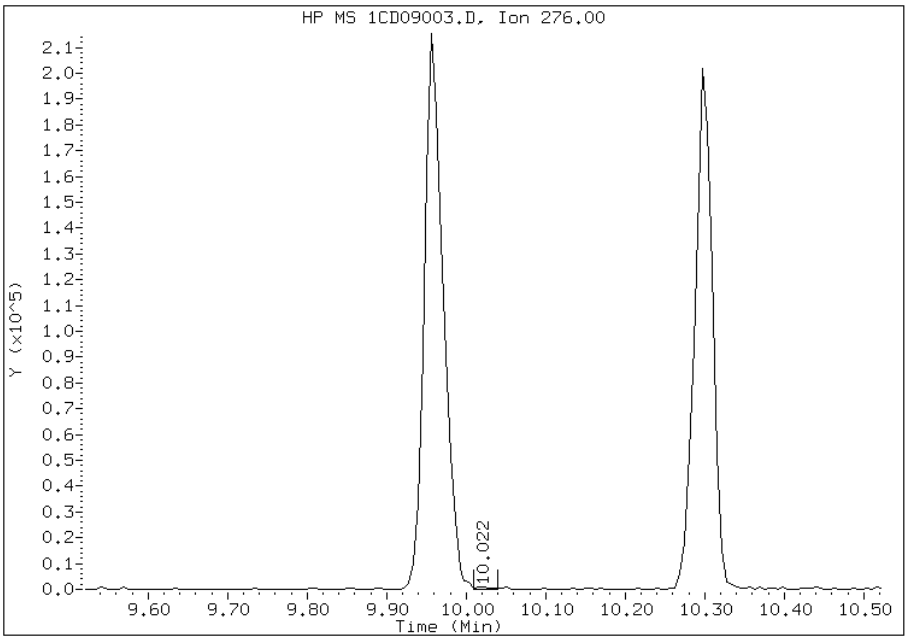
Processing Integration Results

RT: 10.02

Response: 1228

Amount: 0

Conc: 0



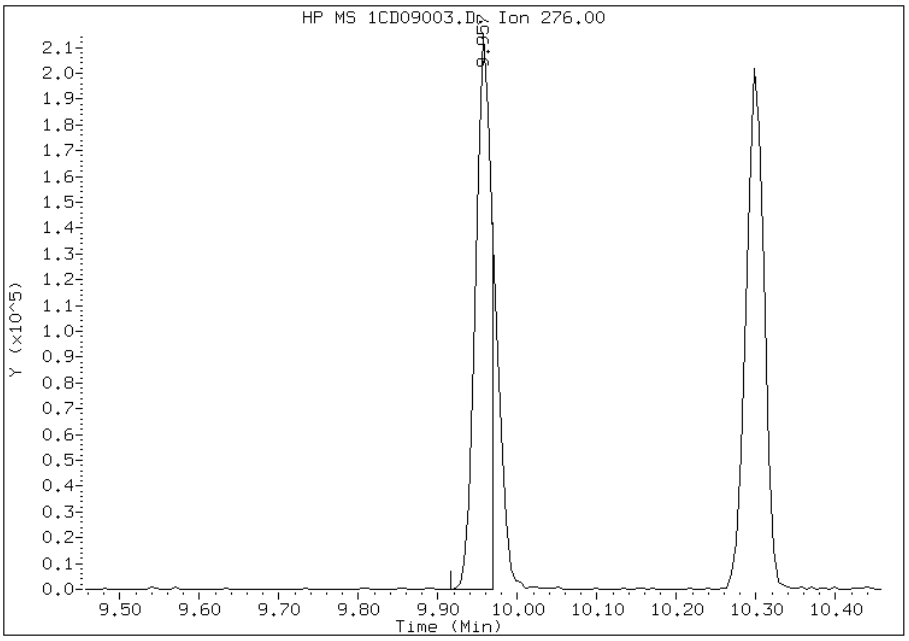
Manual Integration Results

RT: 9.96

Response: 294723

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Lab Sample ID: CCVIS 660-136309/3 Calibration Date: 04/10/2013 12:10

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD10003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.996	0.0000	19400	20000	-3.1	20.0
2-Methylnaphthalene	Ave	0.6994	0.6277	0.0000	18000	20000	-10.2	20.0
1-Methylnaphthalene	Ave	0.6293	0.6353	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.656	1.700	0.0000	20500	20000	2.7	20.0
Acenaphthene	Lin	1.025	1.110	0.0000	21700	20000	8.3	20.0
Fluorene	Ave	1.367	1.302	0.0000	19100	20000	-4.7	20.0
Phenanthrene	Ave	1.165	1.213	0.0000	20800	20000	4.2	20.0
Anthracene	Ave	1.181	1.261	0.0000	21300	20000	6.7	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.335	0.0000	20800	20000	3.8	20.0
Pyrene	Ave	1.108	1.109	0.0000	20000	20000	0.0	20.0
Benzo[a]anthracene	Lin	1.278	1.088	0.0000	18900	20000	-5.4	20.0
Chrysene	Ave	1.140	1.090	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.131	1.154	0.0000	20400	20000	2.0	20.0
Benzo[k]fluoranthene	Ave	1.094	1.129	0.0000	20600	20000	3.2	20.0
Benzo[a]pyrene	Ave	1.065	1.093	0.0000	20500	20000	2.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8567	0.0000	16900	20000	-15.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9587	0.0000	20500	20000	2.6	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.029	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Lin	0.6233	0.6564	0.0000	20800	20000	4.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 10-APR-2013 12:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	3.680	3.680	(1.000)	324897	40.0000	
* 6 Acenaphthene-d10	164	4.768	4.768	(1.000)	222702	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	427547	40.0000	
$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	140327	20.0000	20.8335
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	562910	40.0000	(H)
* 23 Perylene-d12	264	8.809	8.809	(1.000)	541225	40.0000	(H)
2 Naphthalene	128	3.692	3.692	(1.003)	161745	20.0000	19.3824
3 2-Methylnaphthalene	142	4.121	4.121	(1.120)	101969	20.0000	17.9506
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	103201	20.0000	20.1905
5 Acenaphthylene	152	4.680	4.680	(0.981)	189256	20.0000	20.5331
7 Acenaphthene	154	4.786	4.786	(1.004)	123651	20.0000	21.6598
9 Fluorene	166	5.104	5.104	(1.070)	145008	20.0000	19.0540
11 Phenanthrene	178	5.727	5.727	(1.003)	259408	20.0000	20.8323
12 Anthracene	178	5.763	5.763	(1.009)	269479	20.0000	21.3485
13 Carbazole	167	5.868	5.868	(1.028)	220592	20.0000	20.3977
15 Fluoranthene	202	6.557	6.557	(1.148)	285476	20.0000	20.7591
16 Pyrene	202	6.727	6.727	(0.880)	311994	20.0000	20.0085(H)
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	306247	20.0000	18.9119(H)
19 Chrysene	228	7.668	7.668	(1.003)	306644	20.0000	19.1168(H)
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	312222	20.0000	20.4054(H)
21 Benzo(k)fluoranthene	252	8.498	8.498	(0.965)	305560	20.0000	20.6477(H)
22 Benzo(a)pyrene	252	8.756	8.756	(0.994)	295893	20.0000	20.5403(H)
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.939	(1.128)	231826	20.0000	16.9433(MH)
25 Dibenzo(a,h)anthracene	278	9.950	9.950	(1.130)	259424	20.0000	20.5251(H)
26 Benzo(g,h,i)perylene	276	10.280	10.280	(1.167)	278380	20.0000	19.9347(H)

QC Flag Legend

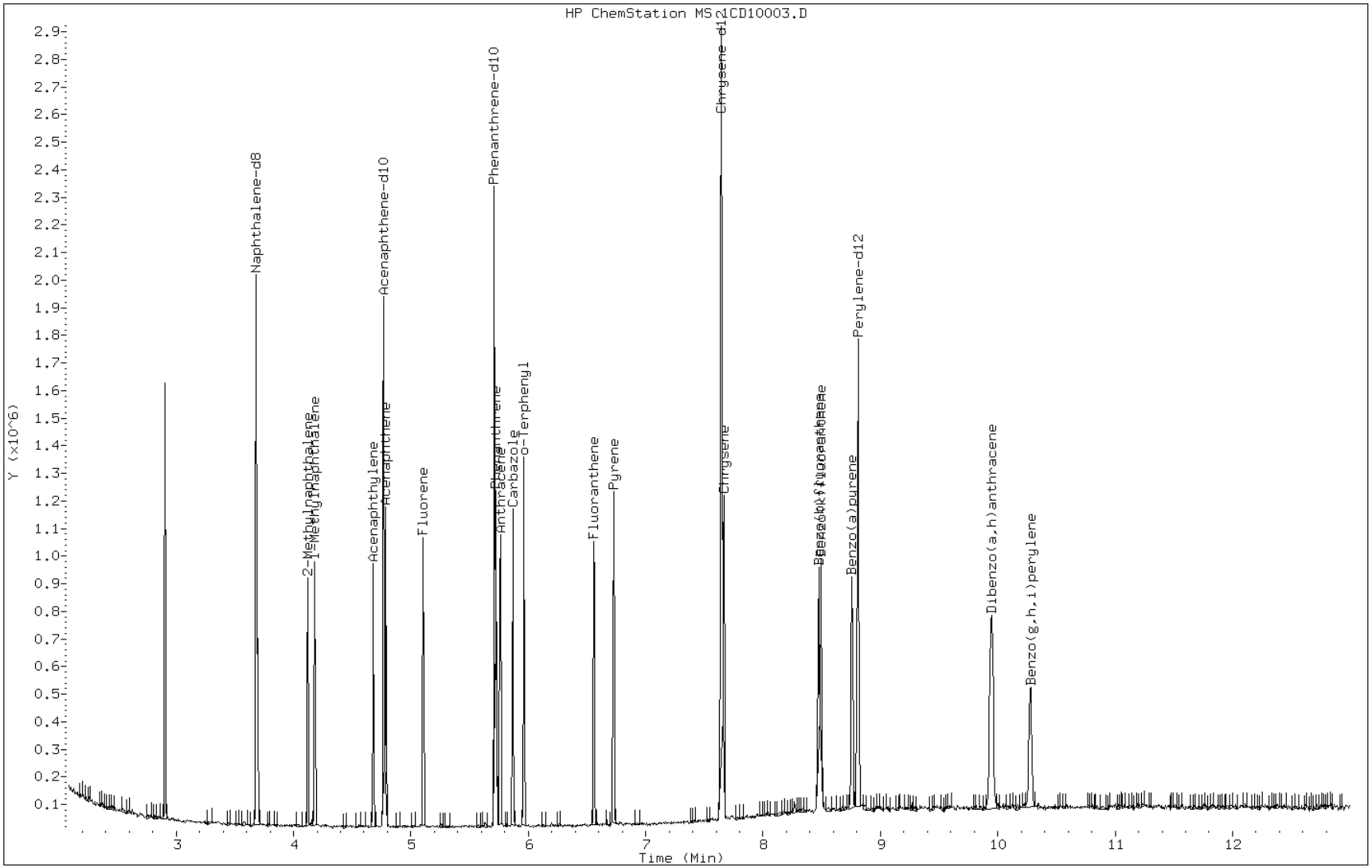
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD10003.D

Date: 10-APR-2013 12:10

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD10003.D
Inj. Date and Time: 10-APR-2013 12:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

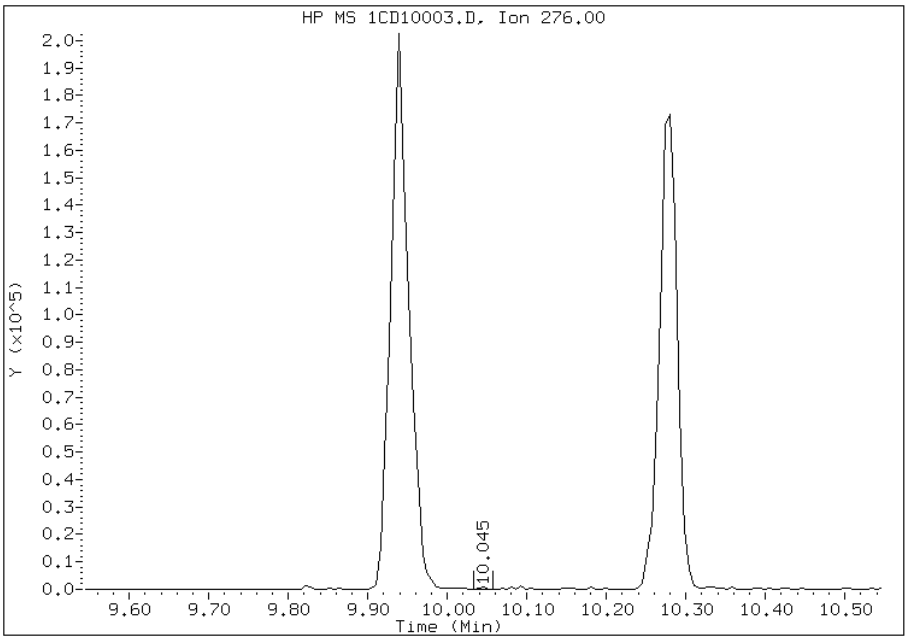
Processing Integration Results

RT: 10.05

Response: 517

Amount: 0

Conc: 0



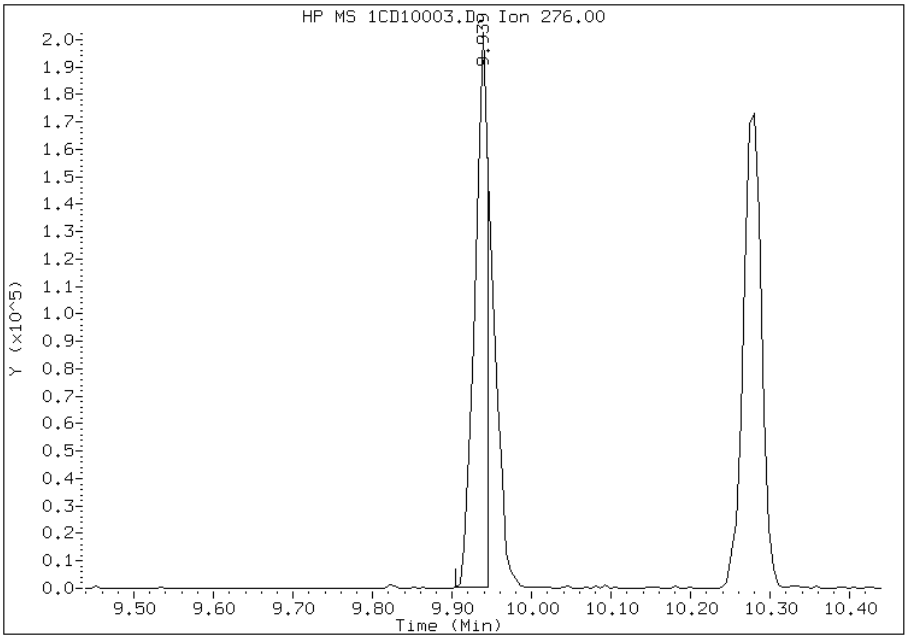
Manual Integration Results

RT: 9.94

Response: 231826

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\1AD09002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 09-APR-2013 10:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 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

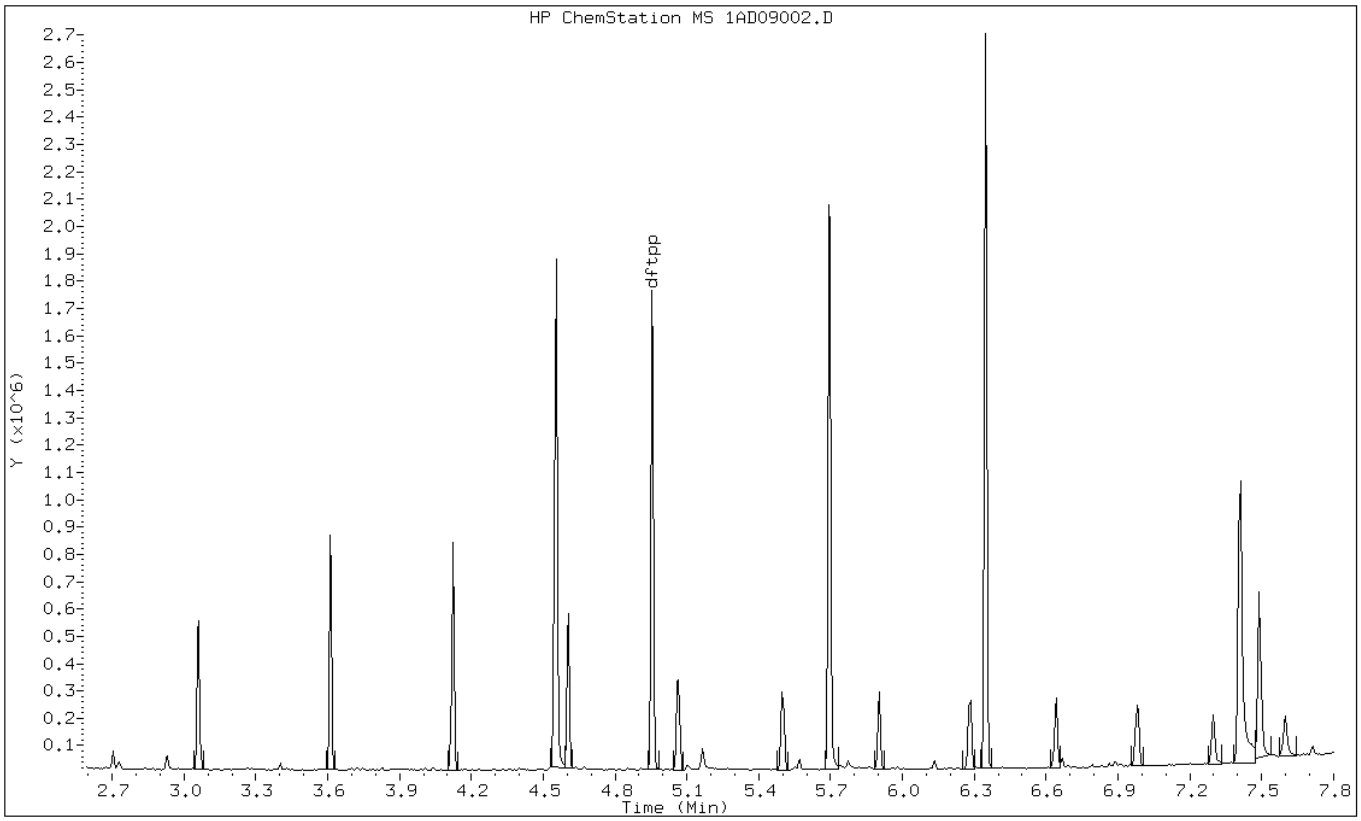
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.953	4.963	-0.010	198	207040			50.00- 0.00	100.00
4.953	4.963	-0.010	51	46512			10.00- 80.00	22.47
4.953	4.963	-0.010	68	0	0.0	0.0	0.00- 2.00	0.00
4.953	4.963	-0.010	69	50000			0.00- 0.00	24.15
4.953	4.963	-0.010	70	472			0.00- 2.00	0.94
4.953	4.963	-0.010	127	74616			10.00- 80.00	36.04
4.953	4.963	-0.010	197	0	0.0	0.0	0.00- 2.00	0.00
4.953	4.963	-0.010	442	168320			50.00- 0.00	81.30
4.953	4.963	-0.010	199	12235			5.00- 9.00	5.91
4.953	4.963	-0.010	275	48480			10.00- 60.00	23.42
4.953	4.963	-0.010	365	4887			1.00- 0.00	2.36
4.953	4.963	-0.010	441	22920			0.01- 99.99	66.29
4.953	4.963	-0.010	443	34576			15.00- 24.00	20.54

Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC



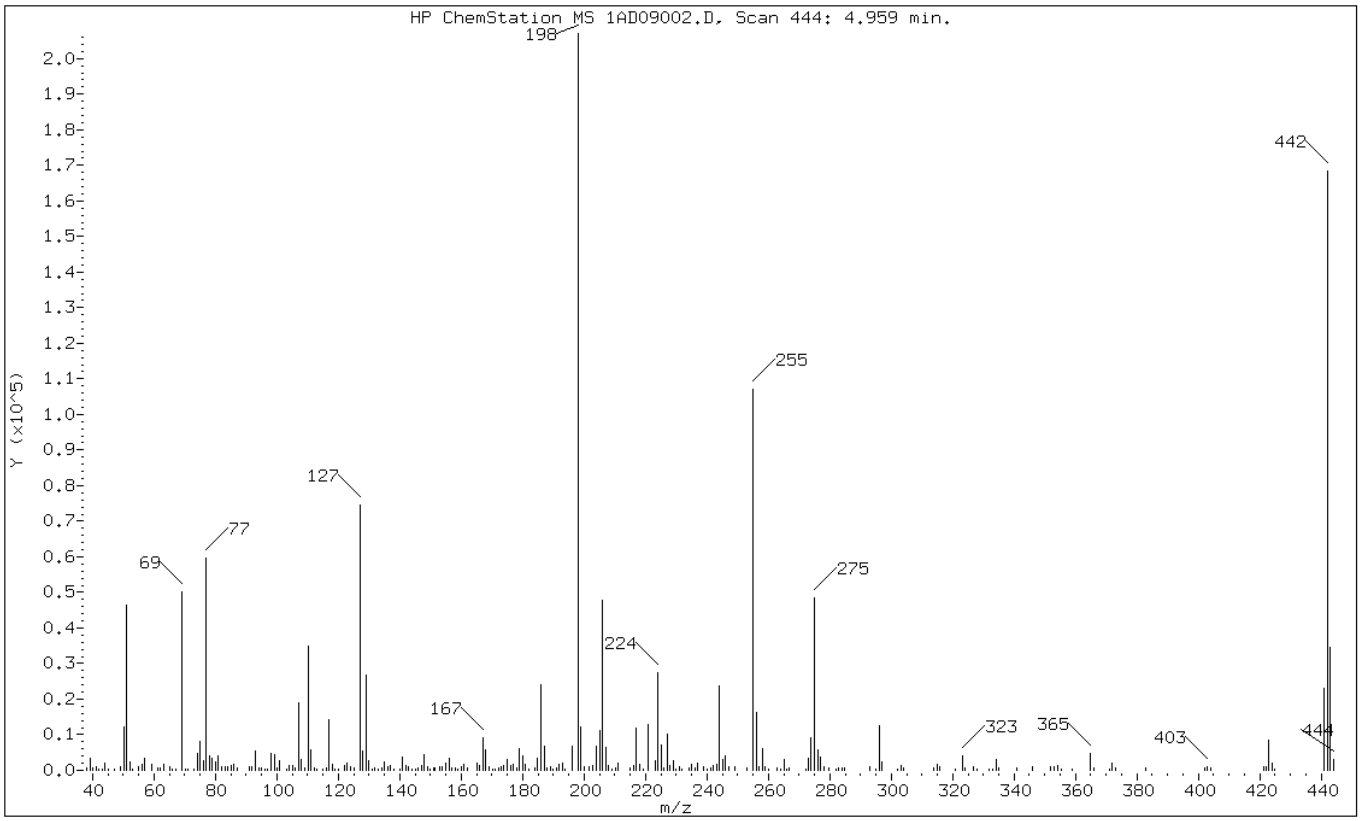
Data File: 1AD09002.D

Date: 09-APR-2013 10:18

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	22.47
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	24.15
70	Less than 2.00% of mass 69	0.23 (0.94)
127	10.00 - 80.00% of mass 198	36.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	81.30
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	23.42
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	11.07
443	15.00 - 24.00% of mass 442	16.70 (20.54)

Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09002.D
Spectrum: HP ChemStation MS 1AD09002.D, Scan 444: 4.959 min.
Location of Maximum: 197.95
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.05	716	113.05	287	182.05	412	262.85	837
39.05	3288	114.95	260	184.05	685	264.05	262
40.05	637	116.05	786	184.95	3245	265.05	3085
41.05	905	116.95	14104	186.05	23952	265.85	489
42.05	268	118.05	1553	187.05	6730	266.75	708
43.05	372	118.95	395	188.05	796	272.05	305
44.05	1930	120.05	285	188.95	1066	273.05	3273
44.95	258	121.95	1391	189.95	280	273.95	9212
46.95	393	122.95	1965	190.95	573	275.05	48480
49.05	1184	124.05	1110	191.95	1637	276.05	5837
50.05	12192	125.05	831	193.05	2179	276.95	3876
51.05	46512	127.05	74616	193.95	497	277.95	1024
52.05	2262	127.95	5504	195.95	6847	279.85	594
53.05	279	128.95	26800	197.95	207040	281.85	271
55.05	1000	129.95	2867	198.95	12235	282.95	548
55.95	1734	131.05	338	199.95	1104	284.05	517
57.05	3403	131.95	684	201.65	899	284.95	801
59.05	1740	132.85	258	202.95	1200	292.95	878
61.05	739	134.05	809	204.05	6764	295.05	344
62.05	522	135.05	2363	205.05	11191	296.05	12678
63.05	1818	136.05	1098	206.05	47720	296.95	2210
65.05	1123	137.05	1494	207.05	6373	302.05	310
65.95	318	137.95	318	207.85	1394	303.05	1513
67.05	258	139.95	460	209.05	500	304.15	584
68.95	50000	140.95	3721	210.15	811	313.95	775
70.05	472	141.95	1508	210.95	1866	315.05	1532
71.05	503	142.95	1111	214.95	556	315.95	902
73.05	334	143.85	325	215.95	1398	321.05	496
74.05	4653	144.95	415	216.95	11927	323.05	4111
74.95	8058	146.05	703	217.95	1708	324.05	642
76.05	2567	147.05	1463	219.15	316	326.95	983
77.05	59696	148.05	4281	220.95	12964	327.95	328
78.05	3995	148.95	1163	223.05	2625	331.95	344
78.95	3445	149.95	396	224.05	27368	332.95	287
80.05	2409	151.05	565	225.05	7203	334.05	3031
80.95	4123	151.55	529	226.05	731	335.05	755
82.05	985	152.95	1127	226.95	10124	341.05	710
83.05	1159	153.95	1150	227.95	1439	346.05	1051
84.05	1102	154.95	2133	228.95	2725	351.95	1046
84.95	1190	156.05	3267	229.95	337	352.95	987

85.95	1589	156.95	716	231.05	1113	354.05	1367
86.95	702	157.95	686	231.95	309	355.25	323
91.05	1159	158.95	503	234.05	655	359.05	283
91.95	1117	159.95	1137	234.95	1534	364.95	4887
93.05	5493	160.95	1704	236.05	555	365.85	758
93.95	622	161.85	622	236.95	1870	371.05	319
95.05	687	164.95	1932	238.85	1158	372.05	1941
95.95	441	165.95	1214	239.95	391	373.05	662
97.05	360	166.95	9057	241.05	760	382.95	678
98.05	4781	167.95	5863	242.05	1486	401.95	764
99.05	4415	168.95	1139	243.05	1685	403.05	1155
99.95	565	170.05	417	244.05	23608	403.95	514
100.95	2650	171.05	489	245.05	3079	421.15	888
103.05	440	172.05	688	246.05	4078	421.95	1036
103.95	1377	172.95	974	246.95	915	423.05	8420
104.95	1463	173.95	1504	249.05	1030	423.95	1901
105.95	617	175.05	3172	253.05	690	424.85	265
106.95	19056	175.95	1258	255.05	107120	440.95	22920
108.05	3170	176.95	1768	256.05	16161	442.05	168320
109.05	661	178.05	579	256.95	1147	443.05	34576
110.05	34936	178.95	6169	257.95	5936	444.05	3040
111.05	5746	179.95	4186	258.95	951		
112.05	755	180.95	1806	260.05	252		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.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

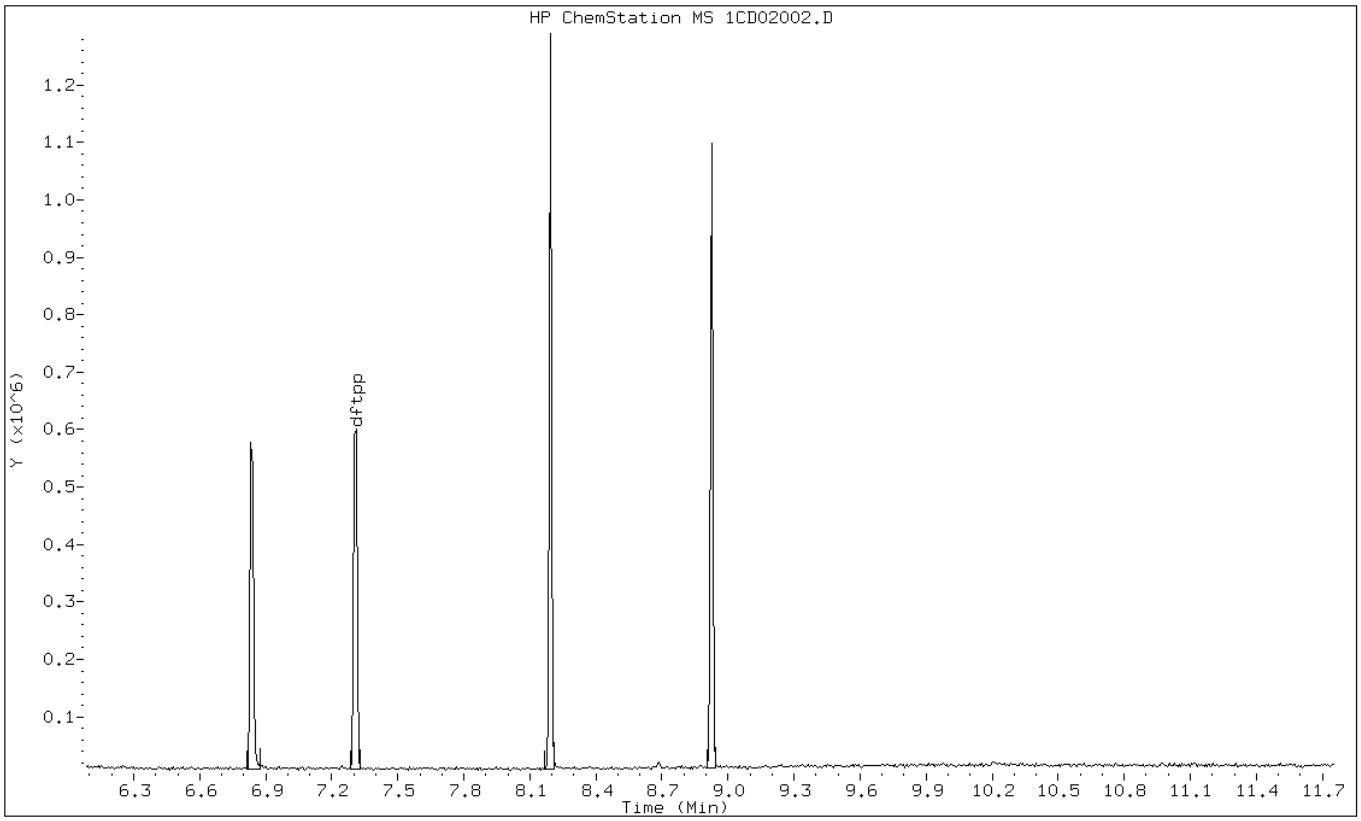
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62
7.310	7.469	-0.159	69	35176			0.00- 0.00	49.94
7.310	7.469	-0.159	70	308			0.00- 2.00	0.88
7.310	7.469	-0.159	127	29688			10.00- 80.00	42.15
7.310	7.469	-0.159	197	310			0.00- 2.00	0.44
7.310	7.469	-0.159	442	39944			50.00- 0.00	56.71
7.310	7.469	-0.159	199	5383			5.00- 9.00	7.64
7.310	7.469	-0.159	275	15117			10.00- 60.00	21.46
7.310	7.469	-0.159	365	2390			1.00- 0.00	3.39
7.310	7.469	-0.159	441	7169			0.01- 99.99	92.67
7.310	7.469	-0.159	443	7736			15.00- 24.00	19.37

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



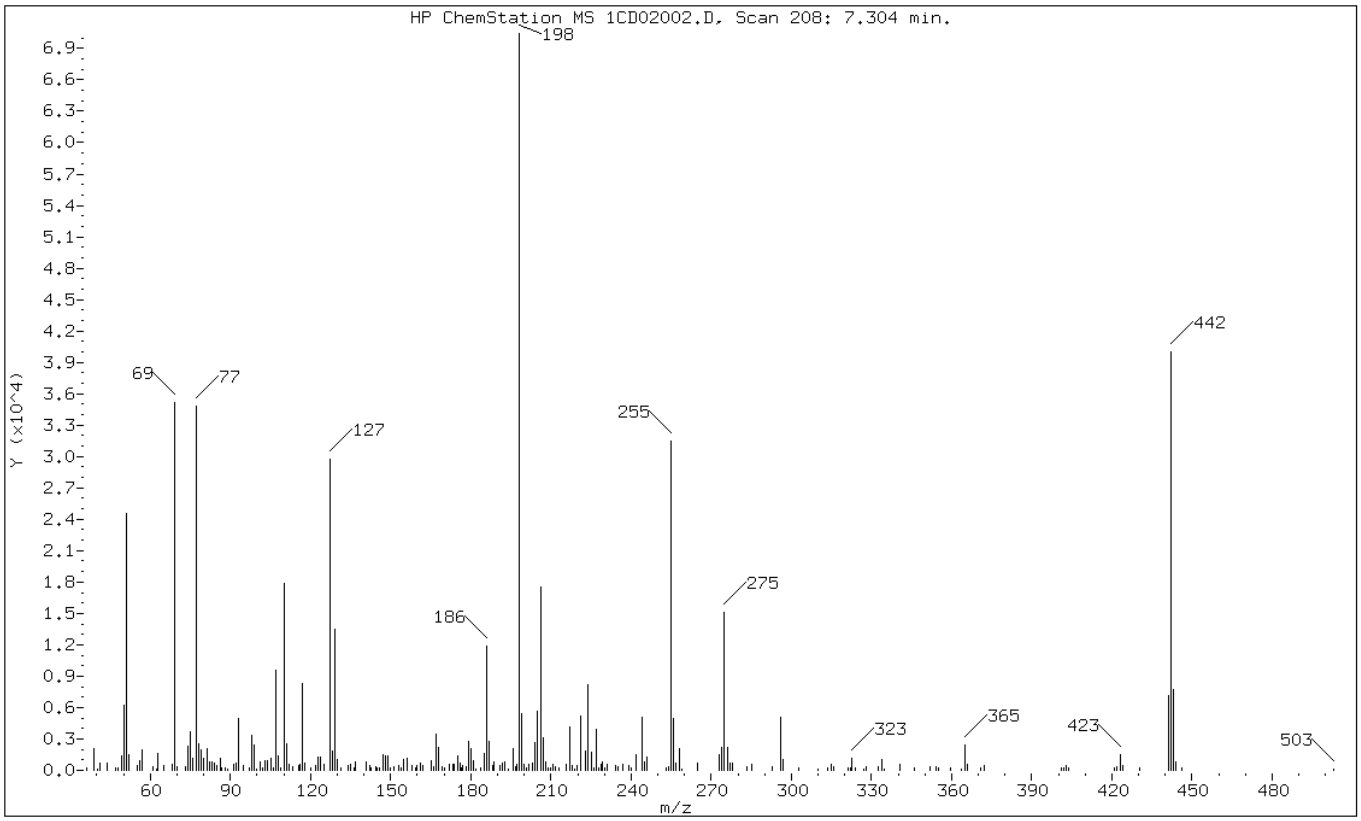
Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		

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Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 08-APR-2013 12:39
Operator : TP Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.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: TAM-VM7N

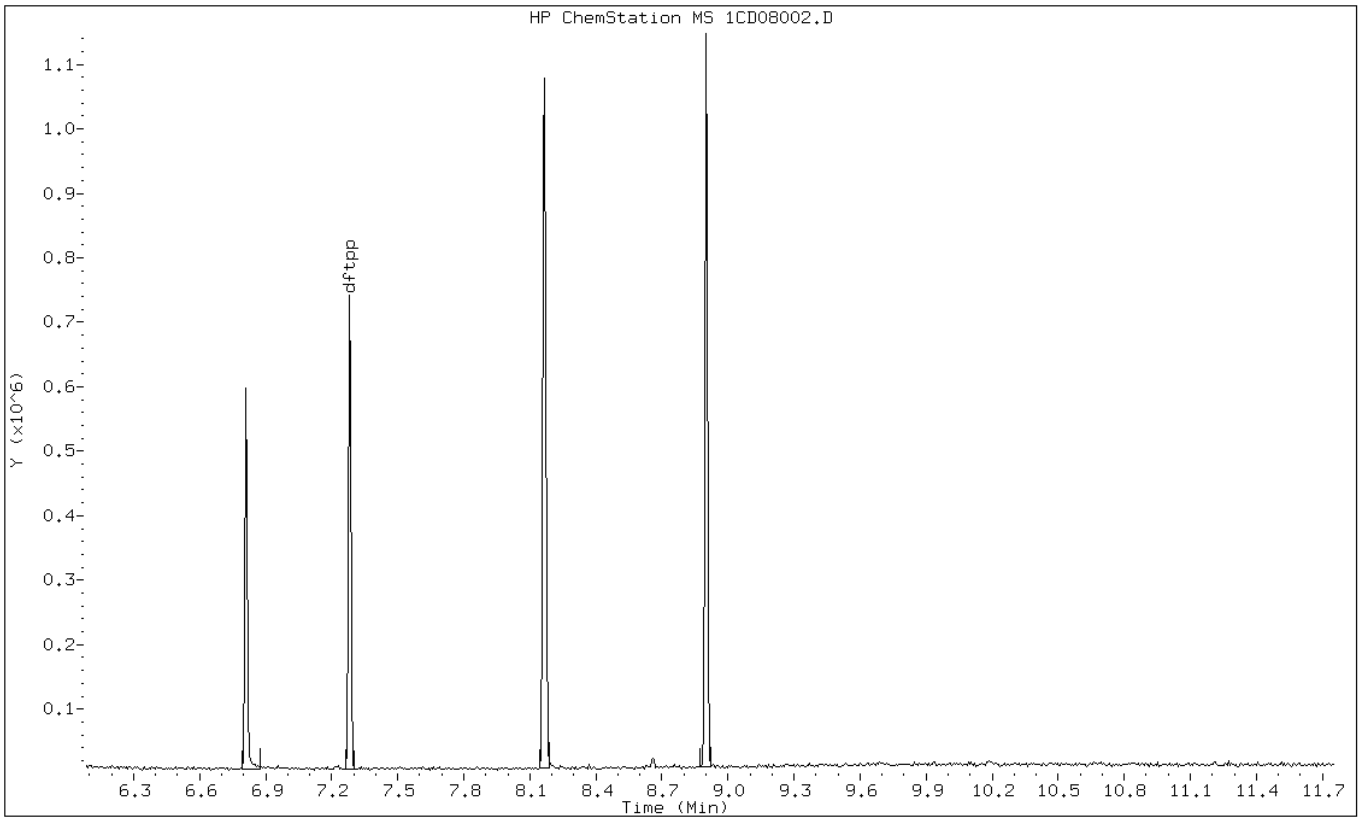
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.280	7.469	-0.189	198	85840			50.00- 0.00	100.00
7.280	7.469	-0.189	51	31064			10.00- 80.00	36.19
7.280	7.469	-0.189	68	632			0.00- 2.00	1.45
7.280	7.469	-0.189	69	43528			0.00- 0.00	50.71
7.280	7.469	-0.189	70	167			0.00- 2.00	0.38
7.280	7.469	-0.189	127	42768			10.00- 80.00	49.82
7.280	7.469	-0.189	197	584			0.00- 2.00	0.68
7.280	7.469	-0.189	442	44832			50.00- 0.00	52.23
7.280	7.469	-0.189	199	5035			5.00- 9.00	5.87
7.280	7.469	-0.189	275	16536			10.00- 60.00	19.26
7.280	7.469	-0.189	365	4185			1.00- 0.00	4.88
7.280	7.469	-0.189	441	6331			0.01- 99.99	81.43
7.280	7.469	-0.189	443	7775			15.00- 24.00	17.34

Data File: 1CD08002.D

Date: 08-APR-2013 12:39

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: TP



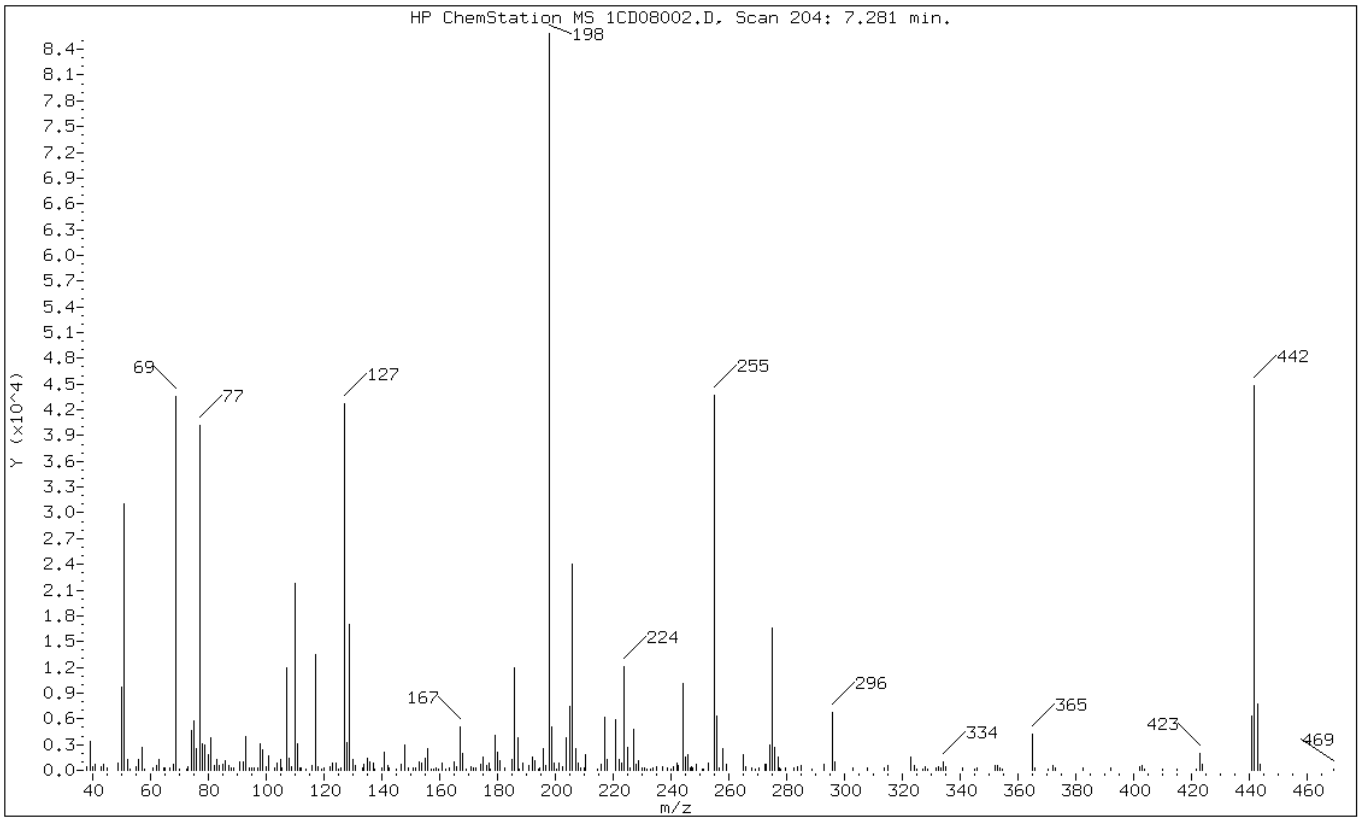
Data File: 1CD08002.D

Date: 08-APR-2013 12:39

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: TP

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	36.19
68	Less than 2.00% of mass 69	0.74 (1.45)
69	Mass 69 relative abundance	50.71
70	Less than 2.00% of mass 69	0.19 (0.38)
127	10.00 - 80.00% of mass 198	49.82
197	Less than 2.00% of mass 198	0.68
442	Greater than 50.00% of mass 198	52.23
199	5.00 - 9.00% of mass 198	5.87
275	10.00 - 60.00% of mass 198	19.26
365	Greater than 1.00% of mass 198	4.88
441	Present, but less than mass 443	7.38
443	15.00 - 24.00% of mass 442	9.06 (17.34)

Data File: 1CD08002.D

Date: 08-APR-2013 12:39

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: TP

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08002.D
Spectrum: HP ChemStation MS 1CD08002.D, Scan 204: 7.281 min.
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	444	111.70	284	187.00	3763	265.00	1786
39.10	3347	112.10	248	187.80	205	266.00	401
40.00	438	113.90	159	188.80	847	268.20	221
41.10	735	115.80	605	190.90	499	269.10	198
43.10	355	117.10	13469	192.00	1580	270.70	347
43.90	680	118.10	439	193.10	1146	272.80	751
45.20	286	119.10	192	194.30	193	273.00	746
49.00	867	120.00	244	194.80	348	274.10	2944
50.10	9711	122.00	482	196.10	2496	275.00	16536
51.10	31064	123.00	894	196.80	584	276.10	2635
52.00	1195	124.10	799	198.00	85840	277.10	1577
53.20	166	125.00	159	199.00	5035	277.70	223
55.10	426	126.00	311	199.80	796	278.20	167
56.00	1315	127.10	42768	200.50	152	279.80	211
57.00	2671	128.10	3265	201.20	907	282.80	342
58.20	181	129.00	16992	202.80	486	283.80	356
61.10	263	130.00	1312	204.00	3837	285.00	605
62.10	526	131.10	506	205.00	7445	288.80	186
63.10	1214	133.30	263	206.10	23992	293.00	691
64.80	318	134.00	656	207.00	2533	296.00	6799
65.20	350	135.10	1450	208.00	902	296.80	938
66.90	284	136.10	915	209.00	285	303.00	347
67.90	632	137.10	853	209.90	216	307.90	220
68.20	738	137.80	170	210.70	1891	313.80	246
69.00	43528	140.00	224	214.60	209	315.00	505
70.20	167	141.00	2131	216.10	696	323.10	1505
72.60	156	142.00	620	217.00	6200	324.10	532
73.20	420	142.80	249	218.00	1246	325.00	151
74.10	4690	145.00	207	221.00	5868	327.00	169
75.10	5763	146.90	756	222.00	1250	328.20	356
76.10	2593	148.00	2962	223.00	883	328.80	198
77.10	40248	149.10	293	224.00	12134	331.80	212
78.10	3130	151.10	252	225.10	2681	332.80	468
79.00	2888	151.70	340	226.10	264	333.50	274
80.00	1846	153.10	1022	227.00	4762	334.10	981
81.10	3739	153.90	798	228.00	725	335.10	387
82.10	539	155.10	1441	228.90	1068	340.80	319
83.10	1197	156.10	2460	230.20	290	345.30	187
83.90	585	157.00	187	231.10	268	346.00	340
85.10	705	158.10	156	231.90	175	352.00	527

86.10	1105	158.90	221	232.90	173	353.10	539
87.20	494	159.80	172	234.00	232	353.90	212
88.10	262	161.00	821	235.00	371	354.50	169
88.80	258	162.10	191	237.00	453	365.00	4185
91.00	933	163.30	221	238.90	226	366.00	338
92.10	1003	164.90	1046	239.90	170	370.60	158
93.00	3875	166.00	476	241.10	446	372.00	629
94.30	289	167.00	5080	242.00	832	372.90	327
95.10	252	168.10	2002	242.80	627	382.80	272
96.00	215	169.10	174	244.10	10165	392.10	239
97.00	213	171.10	375	245.20	1497	402.10	363
98.00	3032	171.90	304	246.00	1838	403.00	500
99.00	2447	172.80	259	246.70	338	403.90	181
100.20	371	174.10	640	247.10	362	410.00	159
101.00	1631	175.00	1476	247.80	242	415.00	210
102.90	256	176.30	524	248.90	721	421.80	173
104.00	899	177.00	897	250.80	182	423.00	1938
105.10	1239	177.70	207	251.50	162	424.00	638
105.70	218	179.10	4069	253.10	775	440.90	6331
107.00	11964	180.00	2044	255.00	43704	442.00	44832
108.00	1346	181.10	1116	256.00	6357	443.00	7775
109.00	385	182.70	235	256.90	293	443.90	696
110.00	21840	185.10	1319	258.00	2468	469.30	168
111.00	3096	186.10	11920	259.10	646		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 09-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.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

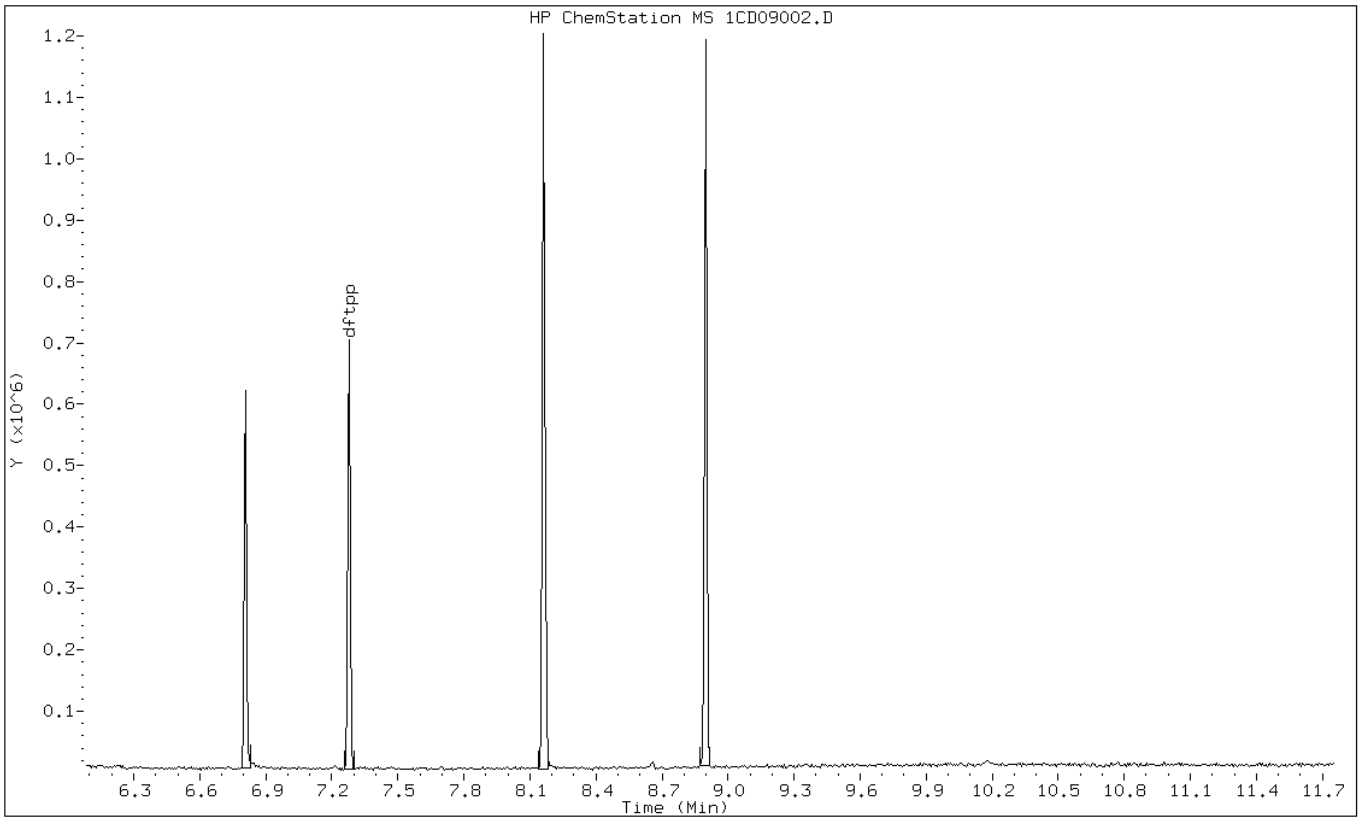
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.280	7.469	-0.189	198	74928			50.00- 0.00	100.00
7.280	7.469	-0.189	51	28256			10.00- 80.00	37.71
7.280	7.469	-0.189	68	439			0.00- 2.00	1.19
7.280	7.469	-0.189	69	36832			0.00- 0.00	49.16
7.280	7.469	-0.189	70	0	0.0	0.0	0.00- 2.00	0.00
7.280	7.469	-0.189	127	33536			10.00- 80.00	44.76
7.280	7.469	-0.189	197	488			0.00- 2.00	0.65
7.280	7.469	-0.189	442	60896			50.00- 0.00	81.27
7.280	7.469	-0.189	199	4873			5.00- 9.00	6.50
7.280	7.469	-0.189	275	14347			10.00- 60.00	19.15
7.280	7.469	-0.189	365	3358			1.00- 0.00	4.48
7.280	7.469	-0.189	441	9103			0.01- 99.99	67.61
7.280	7.469	-0.189	443	13464			15.00- 24.00	22.11

Data File: 1CD09002.D

Date: 09-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



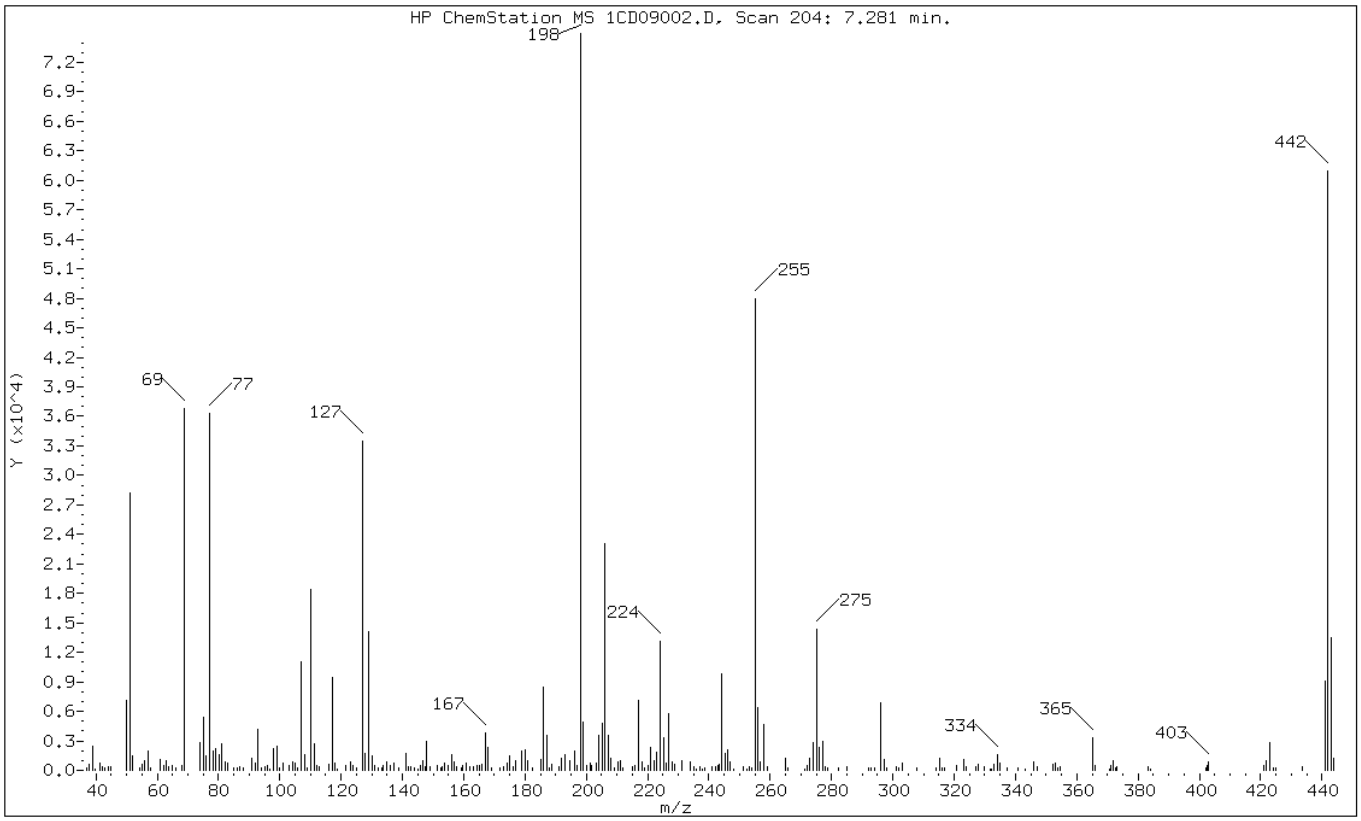
Data File: 1CD09002.D

Date: 09-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.71
68	Less than 2.00% of mass 69	0.59 (1.19)
69	Mass 69 relative abundance	49.16
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	44.76
197	Less than 2.00% of mass 198	0.65
442	Greater than 50.00% of mass 198	81.27
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 60.00% of mass 198	19.15
365	Greater than 1.00% of mass 198	4.48
441	Present, but less than mass 443	12.15
443	15.00 - 24.00% of mass 442	17.97 (22.11)

Data File: 1CD09002.D

Date: 09-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09002.D
Spectrum: HP ChemStation MS 1CD09002.D, Scan 204: 7.281 min.
Location of Maximum: 198.00
Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	303	121.70	501	197.00	488	277.00	2932
37.90	644	123.00	803	198.00	74928	277.80	317
39.10	2437	123.80	456	198.90	4873	278.90	244
39.90	183	125.10	284	200.00	503	282.10	289
41.20	713	127.10	33536	201.30	734	285.10	385
42.10	366	127.90	1719	201.60	542	292.00	202
42.90	295	129.10	14144	203.10	759	292.90	209
44.00	392	130.10	1532	204.00	3512	294.00	258
45.00	374	130.90	456	205.10	4815	296.00	6866
50.10	7102	132.10	256	206.00	23080	297.10	1131
51.10	28256	133.10	250	207.10	3594	297.80	186
52.10	1481	133.80	480	208.00	1243	301.10	371
54.10	185	134.80	870	209.00	290	301.80	227
55.00	604	136.00	478	210.30	836	302.90	771
56.00	1018	137.10	750	211.10	952	307.70	238
57.10	1912	138.70	279	212.10	250	314.00	209
58.00	210	141.00	1665	215.00	372	315.10	1231
61.00	1106	142.10	403	215.90	508	316.00	255
62.00	481	142.60	351	217.00	7162	316.80	300
63.00	992	143.80	198	218.00	860	320.90	493
63.90	313	145.10	182	218.90	222	323.00	1104
65.00	449	145.90	492	220.30	499	324.10	311
66.10	233	146.80	950	221.10	2282	326.90	359
68.00	439	147.30	406	222.10	1001	327.80	604
69.00	36832	148.00	2884	223.10	1791	330.00	316
74.00	2854	149.00	385	224.00	13135	331.90	155
75.10	5362	151.50	517	225.10	3344	332.20	153
76.10	1470	152.50	251	226.00	688	333.00	609
77.10	36312	153.00	376	227.00	5786	334.10	1631
78.10	2001	153.70	719	228.00	866	334.90	679
79.00	2216	155.10	461	228.80	569	337.20	239
80.10	1539	156.00	1563	231.00	1026	341.00	186
81.10	2665	157.00	913	234.10	806	343.00	154
82.10	881	157.80	307	235.10	413	345.90	816
82.90	715	159.20	240	235.80	162	347.00	406
85.00	303	159.80	459	237.00	417	352.10	610
86.20	286	160.90	719	237.90	152	353.00	746
86.90	318	161.80	321	238.80	302	353.90	244
88.00	215	163.10	332	241.00	381	354.50	346
91.00	1216	164.20	510	242.00	328	365.10	3358

92.10	686	165.00	546	242.90	526	365.80	496
93.00	4154	166.00	574	243.20	576	370.50	169
94.00	185	167.10	3830	244.00	9803	371.20	430
95.20	351	168.00	2374	245.20	1718	371.90	983
96.10	467	168.90	256	246.00	2069	372.70	286
96.80	171	171.90	304	247.00	822	373.10	335
98.00	2209	173.00	341	248.10	163	383.30	385
99.00	2438	174.10	763	251.10	337	383.90	155
100.00	300	175.00	1496	252.40	163	402.10	290
101.00	754	176.00	389	253.10	334	402.70	487
102.90	507	177.00	954	253.80	239	403.10	909
104.10	903	178.90	1968	254.10	268	420.90	465
105.00	744	180.00	2029	255.00	47920	421.90	1005
105.90	301	180.90	925	256.00	6320	423.00	2778
107.10	10987	182.30	220	256.80	813	424.10	230
108.00	1572	185.00	1056	258.00	4623	424.80	259
109.10	194	186.10	8474	258.90	382	433.40	342
110.00	18384	187.10	3502	265.00	1260	441.10	9103
111.10	2683	187.80	275	265.90	256	442.00	60896
112.00	467	188.90	605	271.20	174	443.10	13464
112.70	361	191.00	386	272.20	439	443.80	1239
115.90	568	192.00	1215	272.90	1213		
117.10	9483	193.00	1616	274.00	2823		
118.00	710	194.80	989	275.00	14347		
118.90	182	196.00	1937	276.00	2307		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 10-APR-2013 11:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.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

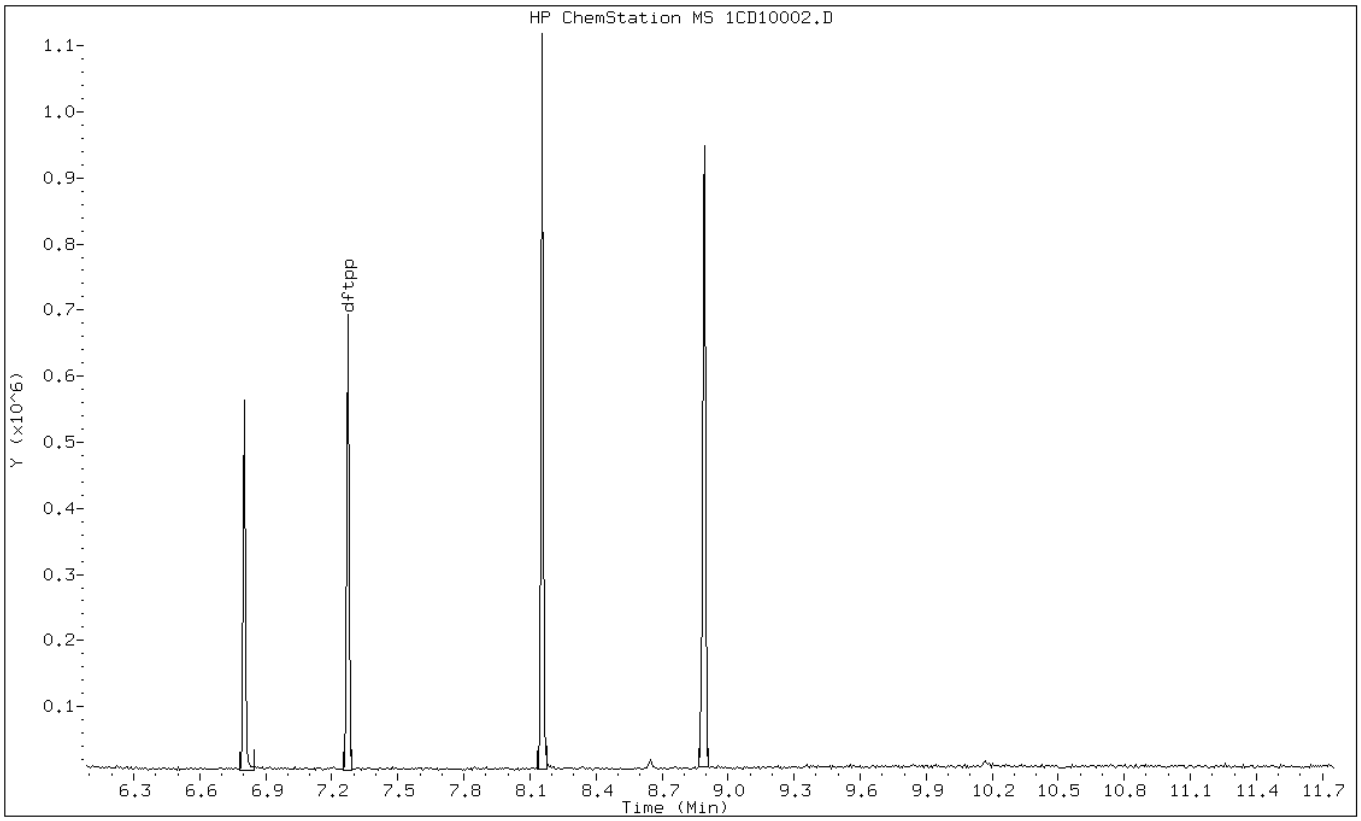
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.274	7.469	-0.195	198	74016			50.00- 0.00	100.00
7.274	7.469	-0.195	51	29368			10.00- 80.00	39.68
7.274	7.469	-0.195	68	320			0.00- 2.00	0.87
7.274	7.469	-0.195	69	36584			0.00- 0.00	49.43
7.274	7.469	-0.195	70	0	0.0	0.0	0.00- 2.00	0.00
7.274	7.469	-0.195	127	34560			10.00- 80.00	46.69
7.274	7.469	-0.195	197	775			0.00- 2.00	1.05
7.274	7.469	-0.195	442	50880			50.00- 0.00	68.74
7.274	7.469	-0.195	199	5085			5.00- 9.00	6.87
7.274	7.469	-0.195	275	14724			10.00- 60.00	19.89
7.274	7.469	-0.195	365	3333			1.00- 0.00	4.50
7.274	7.469	-0.195	441	9455			0.01- 99.99	98.91
7.274	7.469	-0.195	443	9559			15.00- 24.00	18.79

Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



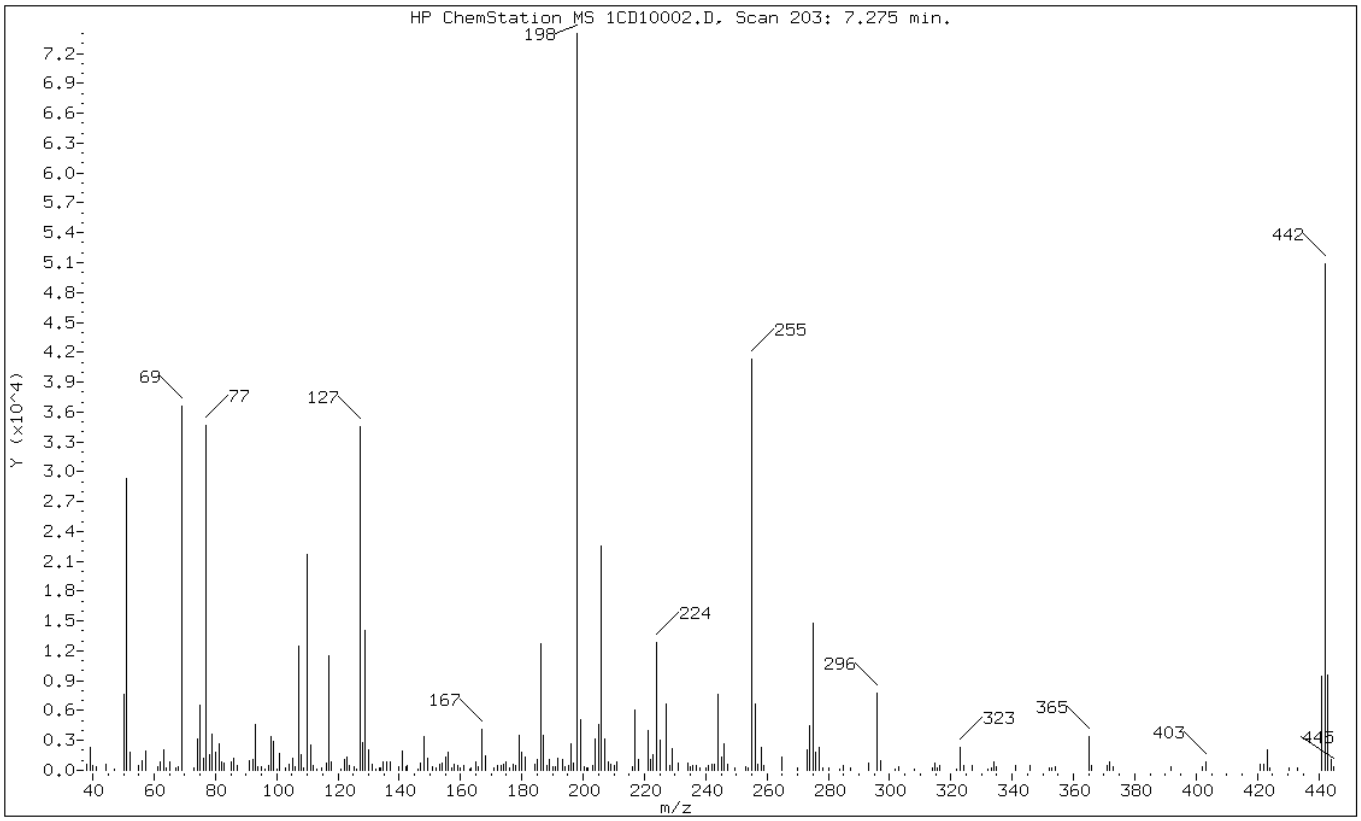
Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.68
68	Less than 2.00% of mass 69	0.43 (0.87)
69	Mass 69 relative abundance	49.43
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.69
197	Less than 2.00% of mass 198	1.05
442	Greater than 50.00% of mass 198	68.74
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 60.00% of mass 198	19.89
365	Greater than 1.00% of mass 198	4.50
441	Present, but less than mass 443	12.77
443	15.00 - 24.00% of mass 442	12.91 (18.79)

Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
Spectrum: HP ChemStation MS 1CD10002.D, Scan 203: 7.275 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	588	117.00	11552	187.10	3456	265.00	1361
39.10	2283	118.00	865	188.10	451	269.90	182
40.00	436	121.00	158	189.10	1045	273.10	2109
41.00	367	122.10	1037	190.30	359	274.00	4514
44.10	612	123.10	1390	191.10	324	275.00	14724
47.10	165	123.90	544	191.90	1179	276.00	1786
50.10	7573	125.20	377	193.10	1042	277.00	2360
51.10	29368	126.00	174	193.90	344	278.10	229
52.20	1822	127.10	34560	195.30	427	280.30	183
55.10	485	128.00	2734	196.00	2710	283.70	172
56.00	1009	129.00	14094	197.00	775	285.00	506
57.10	1969	130.00	2008	198.00	74016	287.10	197
61.00	357	131.10	561	199.00	5085	293.10	696
61.90	839	132.20	181	200.20	364	296.00	7743
63.00	2029	133.70	236	201.00	199	297.00	920
63.90	206	134.10	210	201.60	228	301.80	155
65.10	799	134.90	795	203.10	494	302.90	410
67.10	292	135.90	796	204.10	3201	307.90	170
67.80	320	136.90	795	205.00	4579	313.80	207
69.10	36584	140.00	324	206.00	22512	314.80	673
73.00	272	141.00	1920	207.00	3181	315.70	295
74.10	3103	142.10	375	208.10	906	316.20	468
75.10	6509	142.70	541	209.00	626	321.90	170
76.00	1244	146.20	174	210.30	521	323.10	2294
77.10	34696	147.00	681	211.10	788	324.20	438
78.10	1525	148.00	3382	215.90	358	327.00	429
79.00	3606	149.10	1170	217.00	6035	332.00	155
80.00	1792	150.90	304	218.00	1106	333.10	228
81.10	2669	152.20	185	221.10	3994	334.00	824
82.00	851	153.00	550	221.90	1066	335.00	373
83.00	683	154.10	768	222.90	1605	341.00	487
85.10	833	155.20	1295	224.00	12896	345.90	518
86.10	1248	156.00	1788	225.00	3054	352.00	236
87.00	540	157.00	297	227.00	6635	352.90	263
91.10	965	158.00	572	228.10	471	354.00	312
92.10	1037	158.90	495	229.00	2185	365.10	3333
93.00	4551	159.90	292	230.90	751	365.80	474
93.90	344	161.00	440	234.10	720	370.90	468
95.20	334	162.90	179	235.00	337	371.90	880
96.10	157	163.40	245	235.90	433	373.10	322

97.20	470	164.90	837	236.80	442	391.90	344
98.00	3406	165.90	333	238.10	184	402.00	409
99.10	2905	167.00	4175	240.10	196	403.10	813
100.00	181	168.10	1414	241.00	507	420.90	613
101.00	1665	170.70	257	242.00	605	422.00	591
103.00	241	172.00	474	242.90	562	423.10	2023
104.10	624	173.10	512	244.00	7599	424.10	286
105.10	1243	174.00	595	245.00	1393	430.30	264
106.20	404	175.00	881	246.00	2690	433.30	184
107.10	12444	176.10	291	247.10	611	441.10	9455
108.10	1618	177.00	591	249.70	190	442.00	50880
108.90	279	178.10	490	253.20	383	443.00	9559
110.00	21720	179.00	3472	253.90	265	444.00	1143
111.00	2561	180.00	1837	255.00	41368	444.90	333
111.90	536	181.10	1372	256.10	6633		
112.90	159	184.20	644	257.00	613		
114.70	215	184.90	1094	258.00	2242		
116.10	683	186.10	12736	259.00	509		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: | Lab Sample ID: MB 660-136127/1-A

Matrix: Solid | Lab File ID: 1CD08005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.00(g) | Date Analyzed: 04/08/2013 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.: 136271 | 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	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08005.D
Lab Smp Id: MB 660-136127/1-A
Inj Date : 08-APR-2013 13:45
Operator : TP Inst ID: BSMC5973.i
Smp Info : MB 660-136127/1-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.000	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

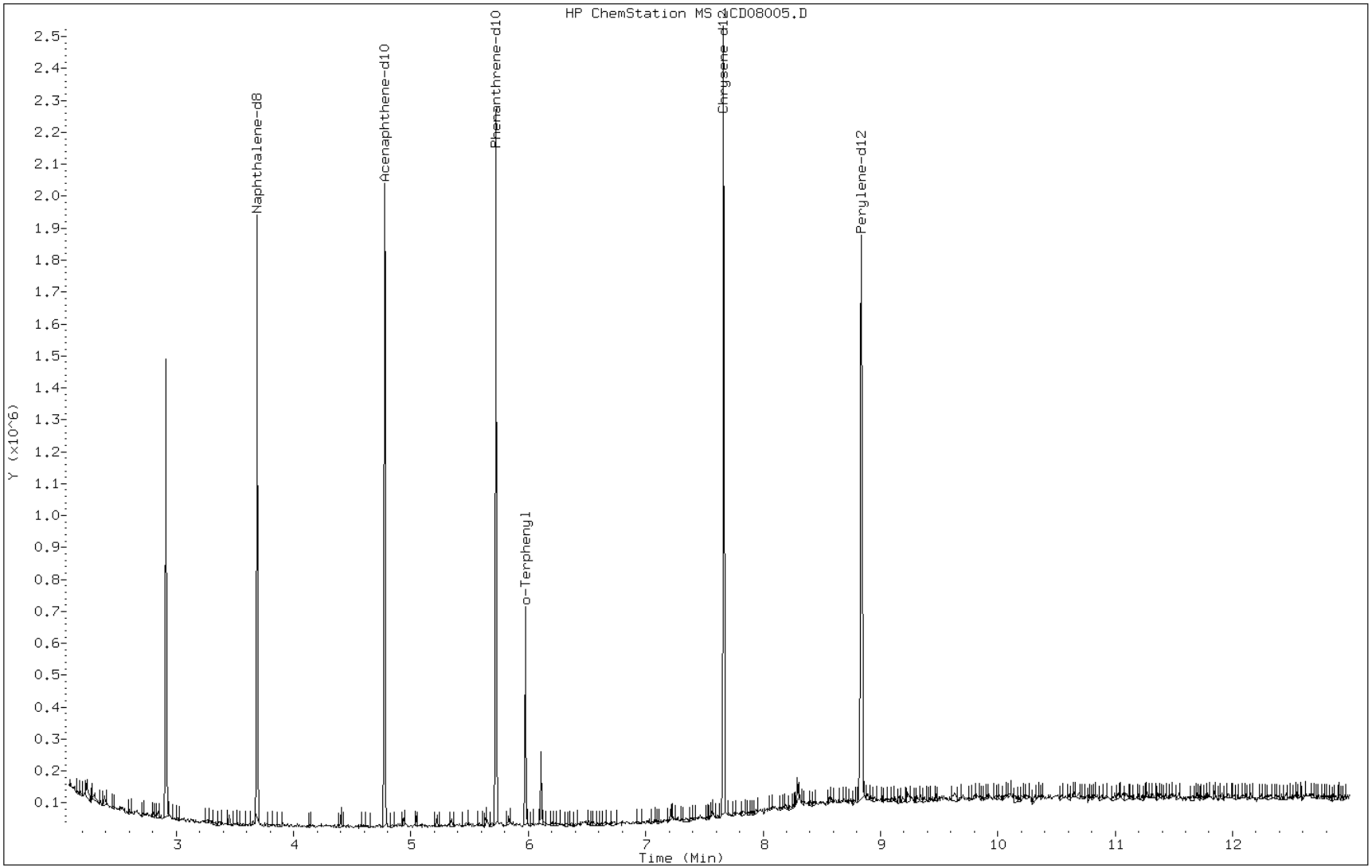
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	379190	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	267981	40.0000	
* 10 Phenanthrene-d10	188	5.727	5.721	(1.000)	495949	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.043)	70460	9.42943	628.6288
* 18 Chrysene-d12	240	7.662	7.656	(1.000)	592625	40.0000	
* 23 Perylene-d12	264	8.839	8.821	(1.000)	592462	40.0000	

Data File: 1CD08005.D

Date: 08-APR-2013 13:45

Client ID: Instrument: BSMC5973.i

Sample Info: MB 660-136127/1-A Operator: TP



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: | Lab Sample ID: MB 660-136189/1-A

Matrix: Solid | Lab File ID: 1CD09013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 14.99(g) | Date Analyzed: 04/09/2013 14:55

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.: 136263 | 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	77		30-130

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09013.D
Lab Smp Id: mb 660-136189/1-a
Inj Date : 09-APR-2013 14:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136189/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

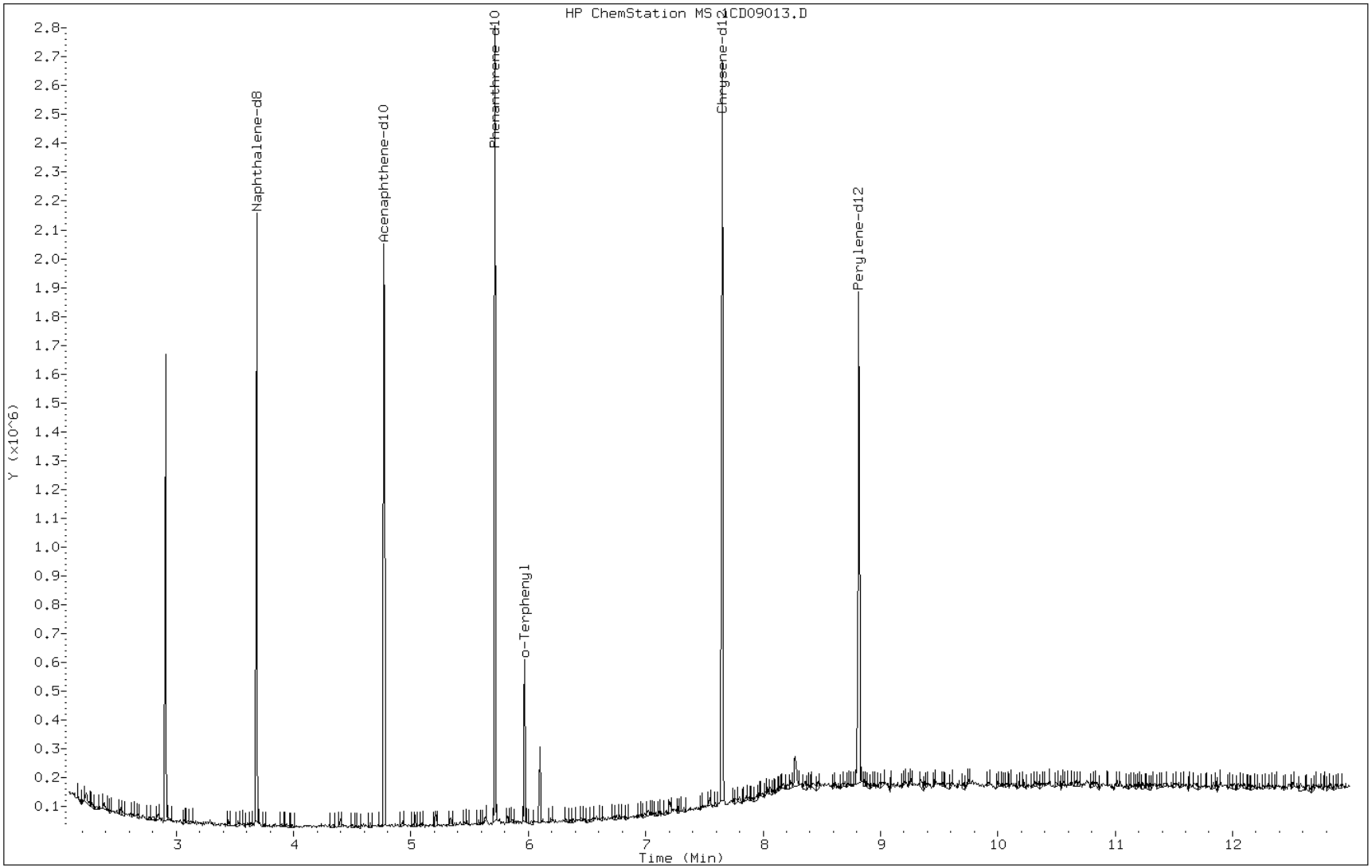
							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
*	1 Naphthalene-d8	136	3.686	3.686	(1.000)	345646	40.0000	
*	6 Acenaphthene-d10	164	4.768	4.774	(1.000)	281898	40.0000	
*	10 Phenanthrene-d10	188	5.715	5.716	(1.000)	525675	40.0000	
$	14 o-Terphenyl	230	5.968	5.968	(1.044)	59919	7.70872	514.2574
*	18 Chrysene-d12	240	7.651	7.657	(1.000)	588358	40.0000	
*	23 Perylene-d12	264	8.815	8.827	(1.000)	537708	40.0000	

Data File: 1CD09013.D

Date: 09-APR-2013 14:55

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136189/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: | Lab Sample ID: LCS 660-136127/2-A

Matrix: Solid | Lab File ID: 1CD08006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 15.11(g) | Date Analyzed: 04/08/2013 14:04

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.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	491		99	20
208-96-8	Acenaphthylene	536		40	5.0
120-12-7	Anthracene	522		8.3	4.2
56-55-3	Benzo[a]anthracene	520		7.9	3.9
50-32-8	Benzo[a]pyrene	470		10	5.2
205-99-2	Benzo[b]fluoranthene	532		12	6.1
191-24-2	Benzo[g,h,i]perylene	514		20	4.4
207-08-9	Benzo[k]fluoranthene	533		7.9	3.6
218-01-9	Chrysene	502		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	593		20	4.1
206-44-0	Fluoranthene	512		20	4.0
86-73-7	Fluorene	537		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	509		20	7.0
90-12-0	1-Methylnaphthalene	579		40	4.4
91-57-6	2-Methylnaphthalene	486		40	7.0
91-20-3	Naphthalene	499		40	4.4
85-01-8	Phenanthrene	525		7.9	3.9
129-00-0	Pyrene	515		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08006.D
Lab Smp Id: LCS 660-136127/2-A
Inj Date : 08-APR-2013 14:04
Operator : TP Inst ID: BSMC5973.i
Smp Info : LCS 660-136127/2-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.110	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	3.692	3.692	(1.000)	384820	40.0000	
* 6	Acenaphthene-d10	164	4.774	4.774	(1.000)	277749	40.0000	
* 10	Phenanthrene-d10	188	5.721	5.721	(1.000)	533413	40.0000	
$ 14	o-Terphenyl	230	5.968	5.974	(1.043)	61452	7.78349	515.1216
* 18	Chrysene-d12	240	7.656	7.656	(1.000)	671425	40.0000	
* 23	Perylene-d12	264	8.821	8.821	(1.000)	658877	40.0000	
2	Naphthalene	128	3.704	3.704	(1.003)	74499	7.53732	498.8297
3	2-Methylnaphthalene	142	4.127	4.127	(1.118)	49451	7.34980	486.4195
4	1-Methylnaphthalene	142	4.192	4.192	(1.135)	52993	8.75327	579.3033
5	Acenaphthylene	152	4.686	4.686	(0.982)	93119	8.10058	536.1071
7	Acenaphthene	154	4.792	4.798	(1.004)	52770	7.41167	490.5139
9	Fluorene	166	5.115	5.115	(1.071)	76955	8.10780	536.5853
11	Phenanthrene	178	5.733	5.739	(1.002)	123243	7.93301	525.0172
12	Anthracene	178	5.768	5.768	(1.008)	124228	7.88829	522.0577

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.874	5.880	(1.027)	118195	8.76014	579.7576
15 Fluoranthene	202	6.568	6.568	(1.148)	132646	7.73132	511.6690
16 Pyrene	202	6.733	6.739	(0.879)	144804	7.78558	515.2603
17 Benzo(a)anthracene	228	7.645	7.651	(0.998)	150266	7.85961	520.1592
19 Chrysene	228	7.674	7.674	(1.002)	145147	7.58634	502.0741
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	149621	8.03248	531.5999
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	145093	8.05371	533.0052
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	124649	7.10781	470.4045
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	128046	7.68734	508.7587(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	137832	8.95776	592.8363
26 Benzo(g,h,i)perylene	276	10.286	10.297	(1.166)	132107	7.77092	514.2897

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD08006.D

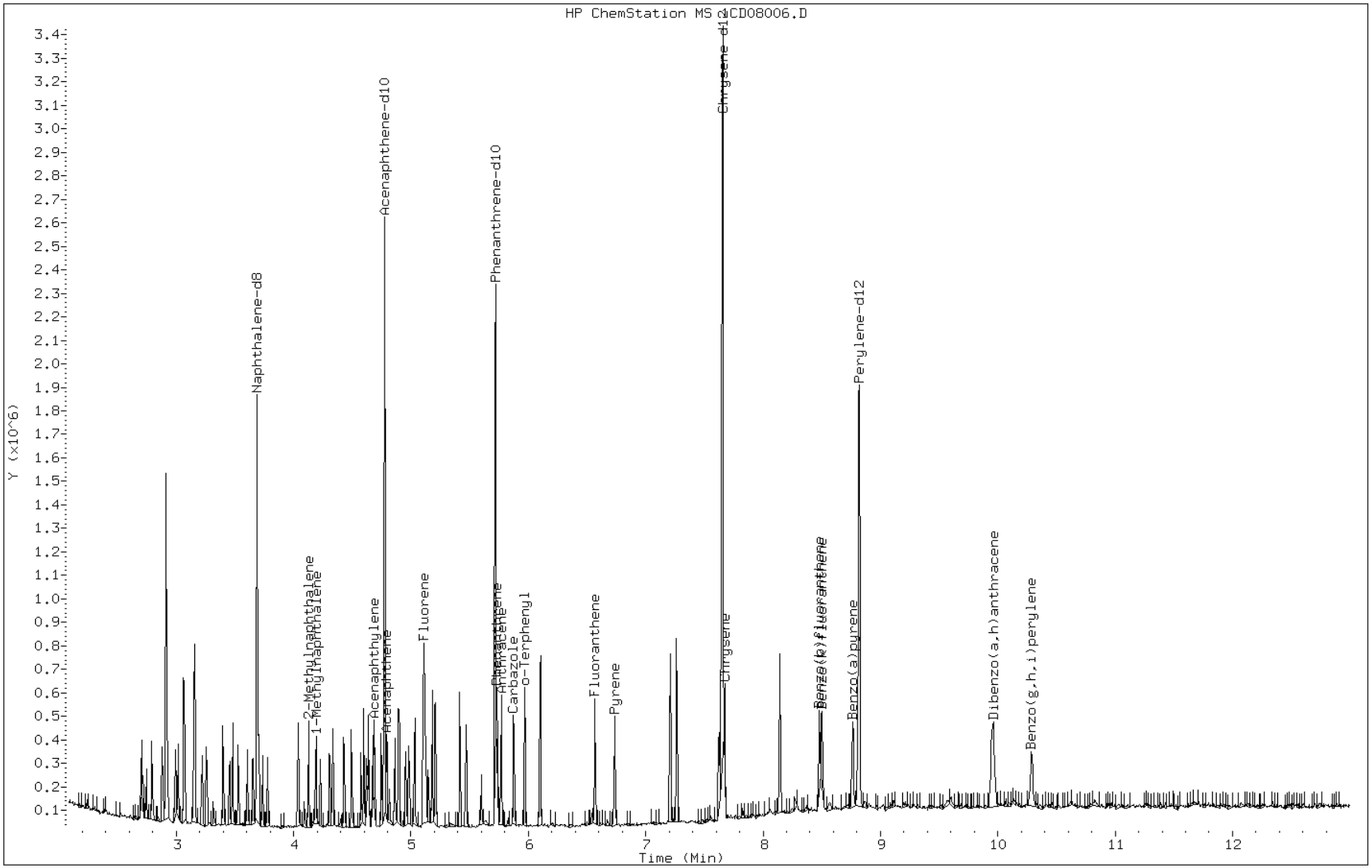
Date: 08-APR-2013 14:04

Client ID:

Instrument: BSMC5973.i

Sample Info: LCS 660-136127/2-A

Operator: TP



Manual Integration Report

Data File: 1CD08006.D
Inj. Date and Time: 08-APR-2013 14:04
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

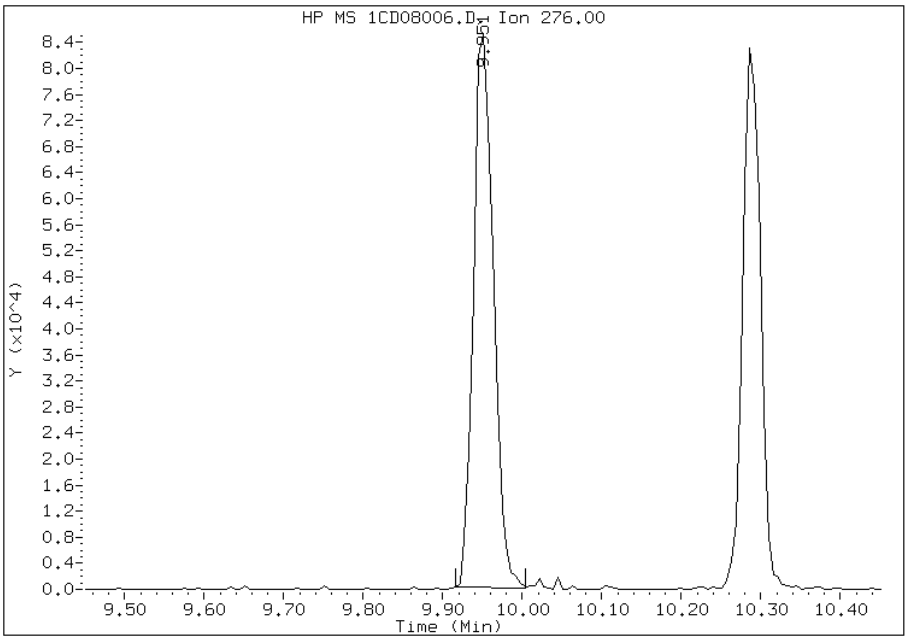
Processing Integration Results

RT: 9.95

Response: 146616

Amount: 9

Conc: 583



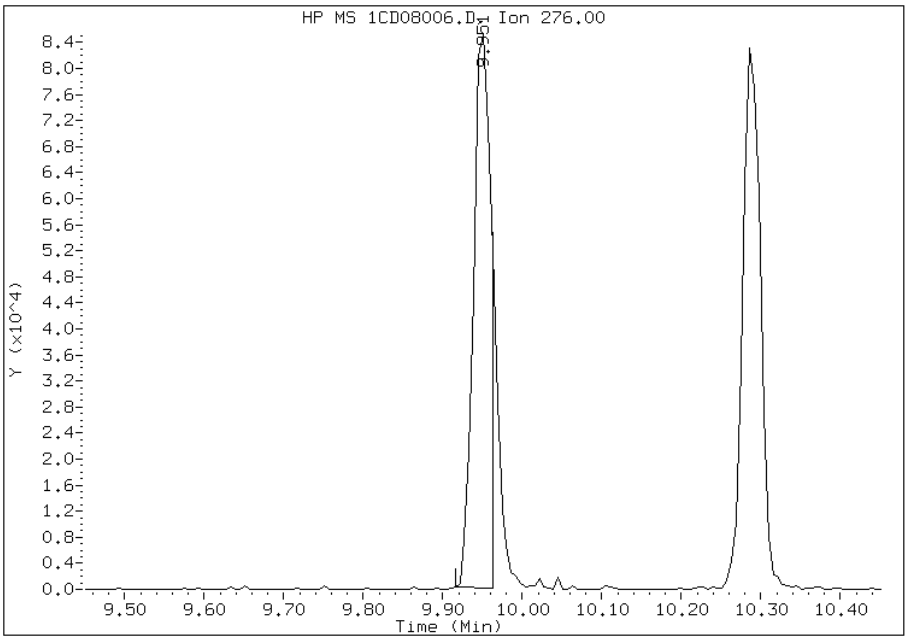
Manual Integration Results

RT: 9.95

Response: 128046

Amount: 8

Conc: 509



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: | Lab Sample ID: LCS 660-136189/2-A

Matrix: Solid | Lab File ID: 1CD09014.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.16(g) | Date Analyzed: 04/09/2013 15:13

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.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	492		99	20
208-96-8	Acenaphthylene	527		40	4.9
120-12-7	Anthracene	503		8.3	4.2
56-55-3	Benzo[a]anthracene	514		7.9	3.9
50-32-8	Benzo[a]pyrene	457		10	5.1
205-99-2	Benzo[b]fluoranthene	553		12	6.0
191-24-2	Benzo[g,h,i]perylene	471		20	4.4
207-08-9	Benzo[k]fluoranthene	486		7.9	3.6
218-01-9	Chrysene	527		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	515		20	4.1
206-44-0	Fluoranthene	556		20	4.0
86-73-7	Fluorene	512		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	481		20	7.0
90-12-0	1-Methylnaphthalene	498		40	4.4
91-57-6	2-Methylnaphthalene	505		40	7.0
91-20-3	Naphthalene	482		40	4.4
85-01-8	Phenanthrene	532		7.9	3.9
129-00-0	Pyrene	531		20	3.7

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09014.D
Lab Smp Id: lcs 660-136189/2-a
Inj Date : 09-APR-2013 15:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136189/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.686	3.686	(1.000)	344087	40.0000	
* 6	Acenaphthene-d10	164	4.774	4.774	(1.000)	255819	40.0000	
* 10	Phenanthrene-d10	188	5.715	5.716	(1.000)	496129	40.0000	
$ 14	o-Terphenyl	230	5.968	5.968	(1.044)	54361	7.43826	490.6502
* 18	Chrysene-d12	240	7.651	7.657	(1.000)	586252	40.0000	
* 23	Perylene-d12	264	8.815	8.827	(1.000)	559628	40.0000	
2	Naphthalene	128	3.698	3.698	(1.003)	64608	7.31042	482.2173
3	2-Methylnaphthalene	142	4.127	4.127	(1.120)	46039	7.65272	504.7966
4	1-Methylnaphthalene	142	4.186	4.186	(1.136)	40855	7.54721	497.8372
5	Acenaphthylene	152	4.686	4.686	(0.982)	84540	7.98472	526.6965
7	Acenaphthene	154	4.792	4.792	(1.004)	48882	7.45414	491.6977
9	Fluorene	166	5.110	5.110	(1.070)	67828	7.75881	511.7949
11	Phenanthrene	178	5.733	5.733	(1.003)	116534	8.06487	531.9835
12	Anthracene	178	5.762	5.768	(1.008)	111726	7.62758	503.1384

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	106048	8.45052	557.4220
15 Fluoranthene	202	6.562	6.568	(1.148)	134504	8.42876	555.9867
16 Pyrene	202	6.733	6.733	(0.880)	130776	8.05289	531.1933
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	130034	7.79072	513.8996
19 Chrysene	228	7.674	7.674	(1.003)	133508	7.99180	527.1636
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	132745	8.39035	553.4529
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.964)	112784	7.37058	486.1862
22 Benzo(a)pyrene	252	8.762	8.768	(0.994)	103106	6.92207	456.6010
24 Indeno(1,2,3-cd)pyrene	276	9.945	9.956	(1.128)	103244	7.29760	481.3720(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.130)	101954	7.80115	514.5874
26 Benzo(g,h,i)perylene	276	10.280	10.298	(1.166)	103117	7.14137	471.0668

QC Flag Legend

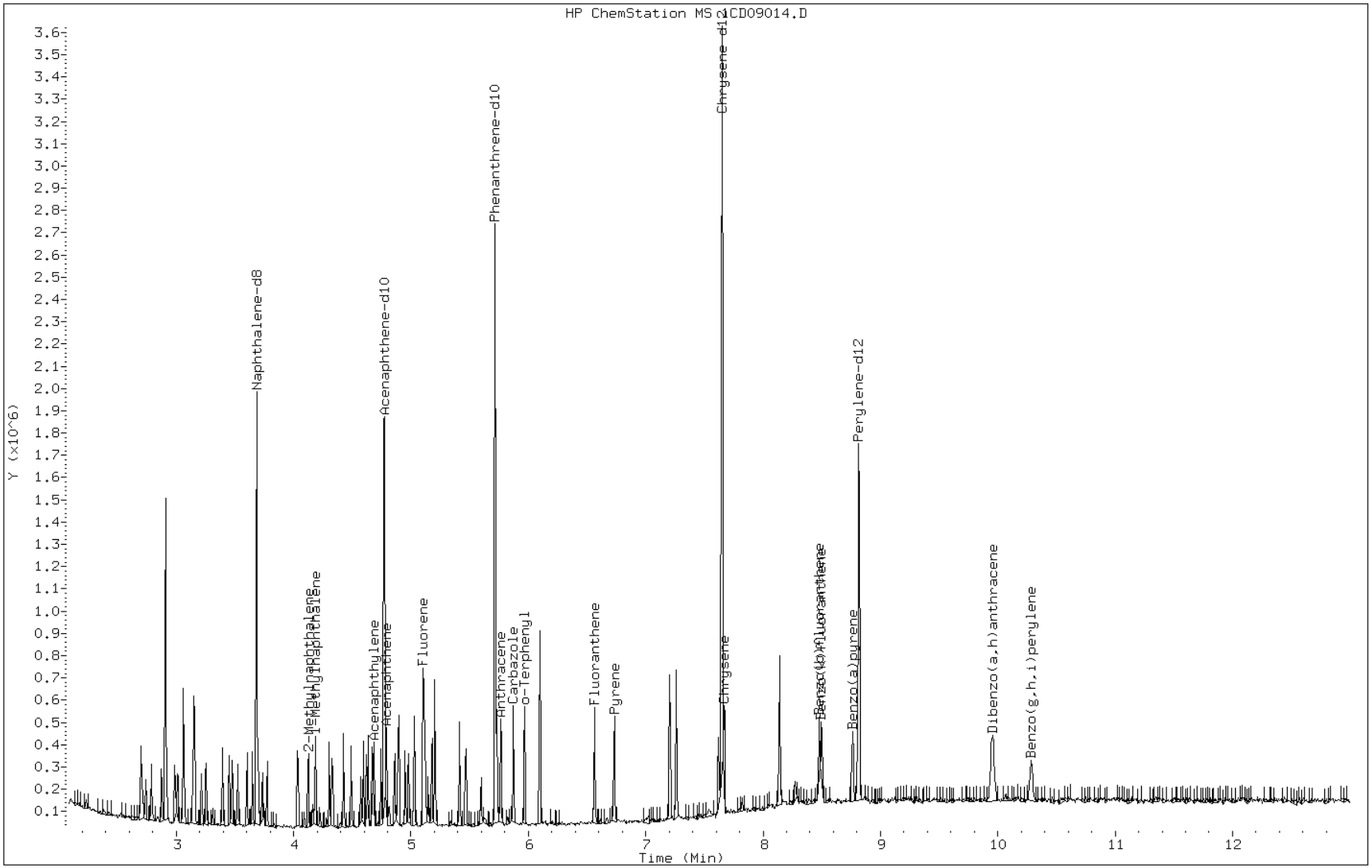
M - Compound response manually integrated.

Data File: 1CD09014.D

Date: 09-APR-2013 15:13

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136189/2-a Operator: SCC



Manual Integration Report

Data File: 1CD09014.D
Inj. Date and Time: 09-APR-2013 15:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

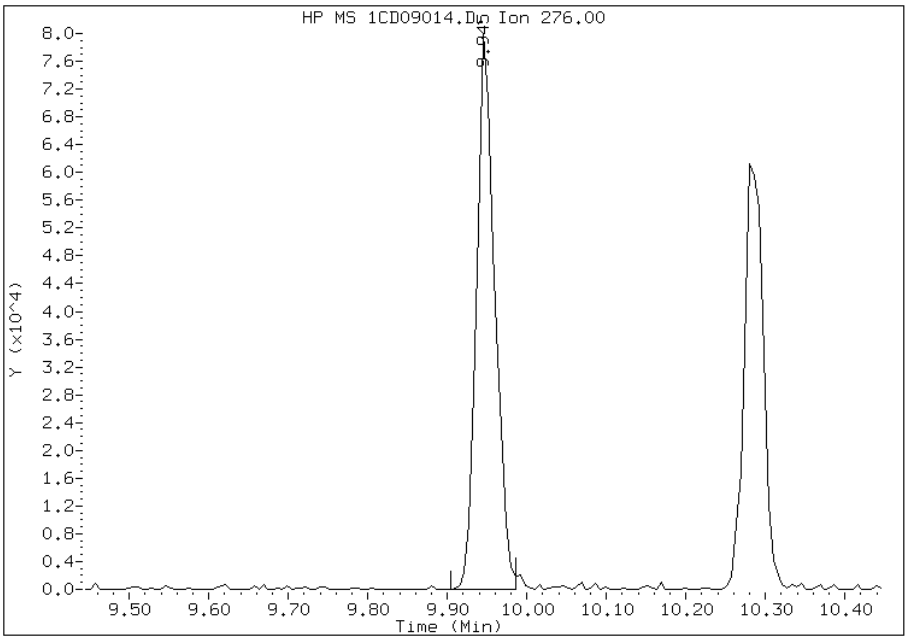
Processing Integration Results

RT: 9.95

Response: 127138

Amount: 9

Conc: 593



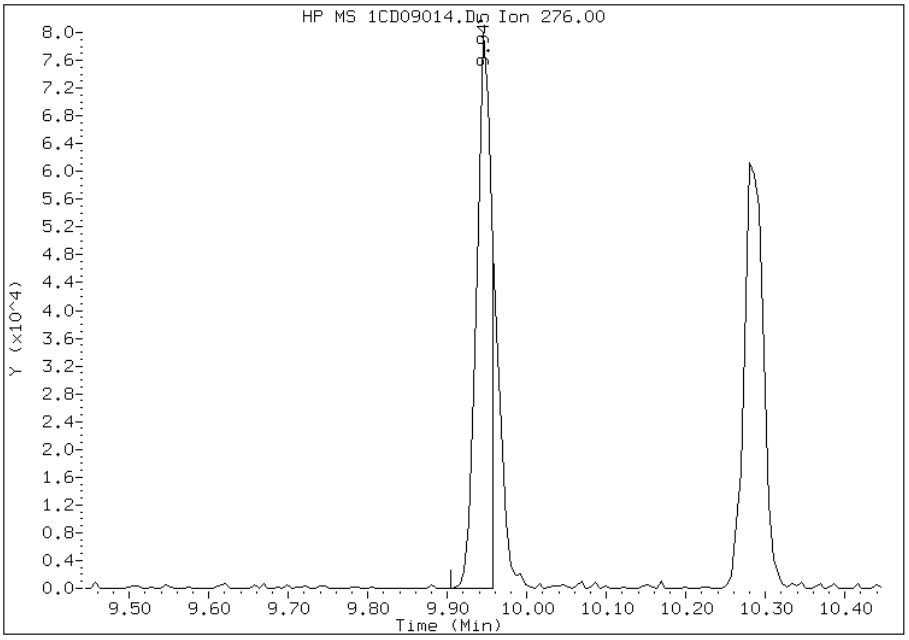
Manual Integration Results

RT: 9.95

Response: 103244

Amount: 7

Conc: 481



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 14:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: | Lab Sample ID: 680-88811-A-44-B MS

Matrix: Solid | Lab File ID: 1CD09019.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.13(g) | Date Analyzed: 04/09/2013 16:45

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

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

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

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	422		120	25
208-96-8	Acenaphthylene	486		49	6.1
120-12-7	Anthracene	472		10	5.2
56-55-3	Benzo[a]anthracene	832		9.8	4.8
50-32-8	Benzo[a]pyrene	773		13	6.4
205-99-2	Benzo[b]fluoranthene	1290		15	7.5
191-24-2	Benzo[g,h,i]perylene	730		25	5.4
207-08-9	Benzo[k]fluoranthene	759		9.8	4.4
218-01-9	Chrysene	1140		11	5.5
53-70-3	Dibenz(a,h)anthracene	496		25	5.0
206-44-0	Fluoranthene	879		25	4.9
86-73-7	Fluorene	415		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	698		25	8.7
90-12-0	1-Methylnaphthalene	778		49	5.4
91-57-6	2-Methylnaphthalene	659		49	8.7
91-20-3	Naphthalene	671		49	5.4
85-01-8	Phenanthrene	856		9.8	4.8
129-00-0	Pyrene	1020		25	4.5

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09019.D
Lab Smp Id: 680-88811-a-44-b ms
Inj Date : 09-APR-2013 16:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-44-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.686	3.686	(1.000)	381754	40.0000	
* 6	Acenaphthene-d10	164	4.774	4.774	(1.000)	293662	40.0000	
* 10	Phenanthrene-d10	188	5.715	5.716	(1.000)	559568	40.0000	
$ 14	o-Terphenyl	230	5.968	5.968	(1.044)	39064	5.00238	330.6268
* 18	Chrysene-d12	240	7.657	7.657	(1.000)	607668	40.0000	
* 23	Perylene-d12	264	8.827	8.827	(1.000)	562127	40.0000	
2	Naphthalene	128	3.698	3.698	(1.003)	80336	8.19314	541.5165
3	2-Methylnaphthalene	142	4.127	4.127	(1.120)	53711	8.04707	531.8617
4	1-Methylnaphthalene	142	4.186	4.186	(1.136)	57092	9.50608	628.2931
5	Acenaphthylene	152	4.686	4.686	(0.982)	72124	5.93420	392.2142
7	Acenaphthene	154	4.792	4.792	(1.004)	38832	5.15850	340.9449
9	Fluorene	166	5.110	5.110	(1.070)	50834	5.06554	334.8008
11	Phenanthrene	178	5.733	5.733	(1.003)	170332	10.4516	690.7864
12	Anthracene	178	5.768	5.768	(1.009)	95278	5.76722	381.1780

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	81505	5.75847	380.5992
15 Fluoranthene	202	6.568	6.568	(1.149)	193335	10.7419	709.9728
16 Pyrene	202	6.733	6.733	(0.879)	208901	12.4103	820.2446
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	176504	10.1602	671.5269
19 Chrysene	228	7.674	7.674	(1.002)	241417	13.9419	921.4765(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	251330	15.8151	1045.2787(R)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	142434	9.26687	612.4830
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	141258	9.44126	624.0095
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	121255	8.53257	563.9504(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.130)	79504	6.05631	400.2848
26 Benzo(g,h,i)perylene	276	10.303	10.298	(1.167)	129404	8.92204	589.6919

QC Flag Legend

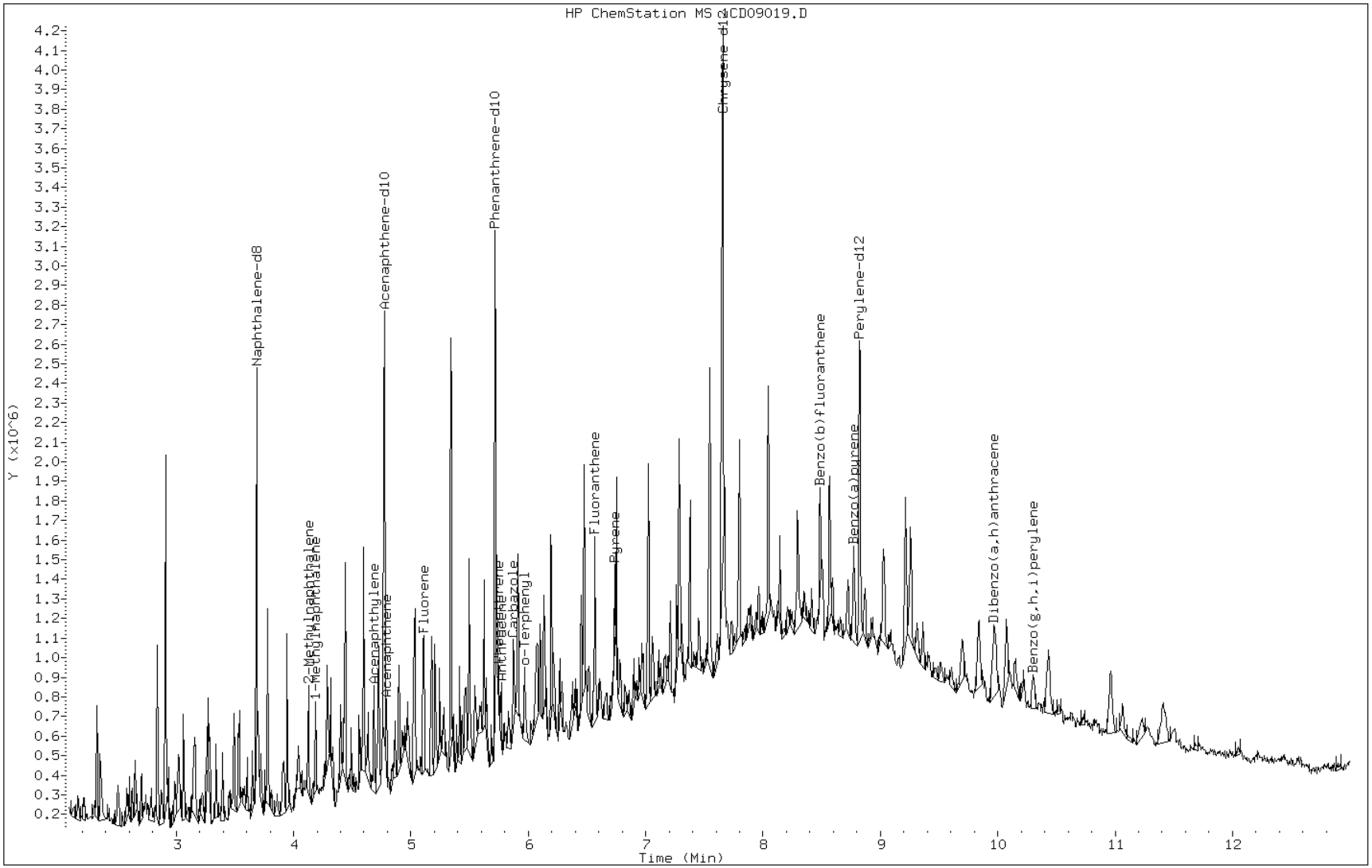
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD09019.D

Date: 09-APR-2013 16:45

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-b ms Operator: SCC



Manual Integration Report

Data File: 1CD09019.D
Inj. Date and Time: 09-APR-2013 16:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

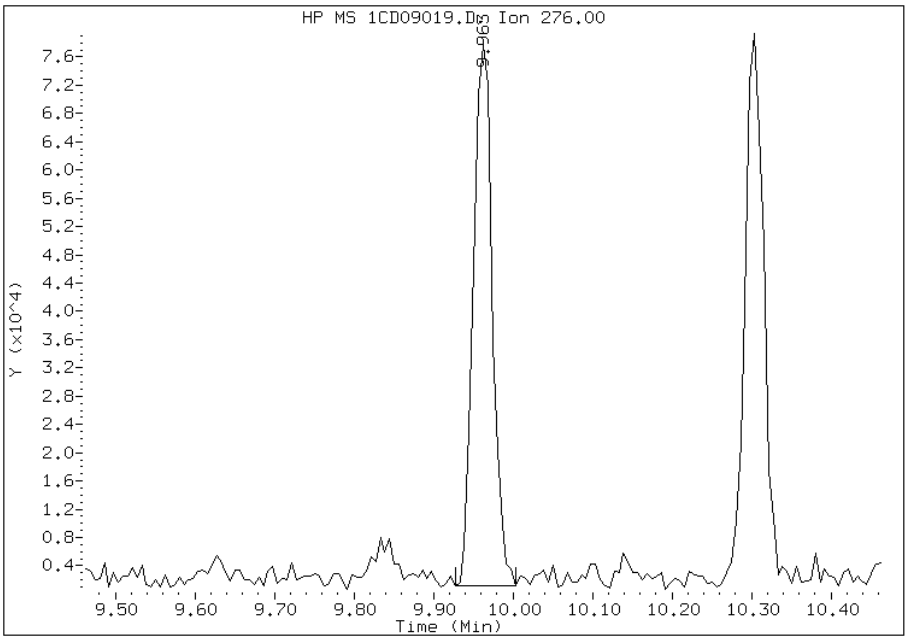
Processing Integration Results

RT: 9.96

Response: 126299

Amount: 9

Conc: 587



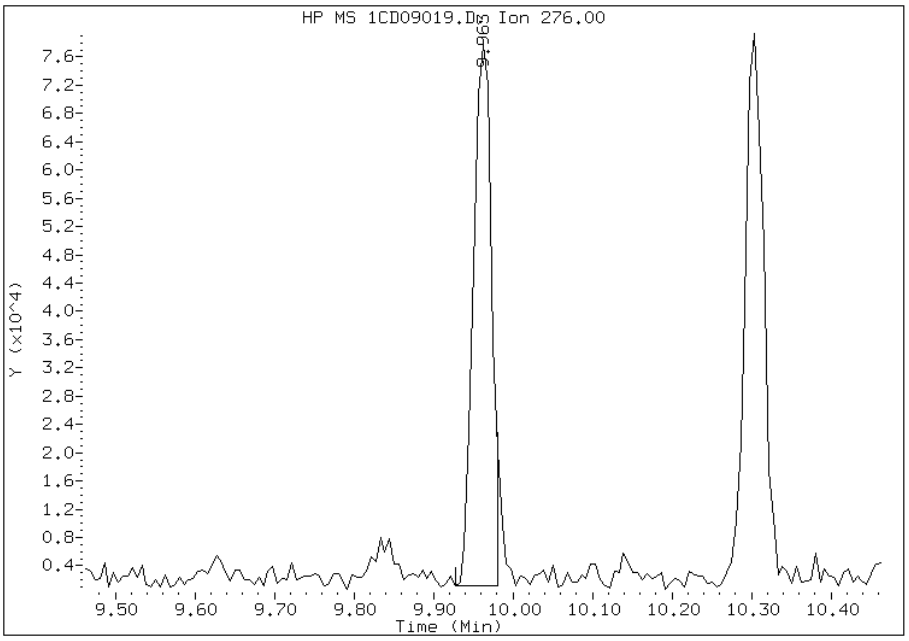
Manual Integration Results

RT: 9.96

Response: 121255

Amount: 9

Conc: 564



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CS MS | Lab Sample ID: 680-88811-22 MS

Matrix: Solid | Lab File ID: 1CD08008.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/08/2013 14:40

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	954		160	32
208-96-8	Acenaphthylene	864		64	8.0
120-12-7	Anthracene	1320		13	6.7
56-55-3	Benzo[a]anthracene	2210		13	6.2
50-32-8	Benzo[a]pyrene	1920		17	8.3
191-24-2	Benzo[g,h,i]perylene	1420		32	7.0
207-08-9	Benzo[k]fluoranthene	1520		13	5.8
218-01-9	Chrysene	2050		14	7.2
53-70-3	Dibenz(a,h)anthracene	945		32	6.6
86-73-7	Fluorene	1030		32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	1530		32	11
90-12-0	1-Methylnaphthalene	1090		64	7.0
91-57-6	2-Methylnaphthalene	1190		64	11
91-20-3	Naphthalene	1190		64	7.0
85-01-8	Phenanthrene	3360		13	6.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08008.D
Lab Smp Id: 680-88811-A-22-B MS
Inj Date : 08-APR-2013 14:40
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-22-B MS
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.692	3.692	(1.000)	452854	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	340263	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	631160	40.0000	
$	14 o-Terphenyl	230	5.968	5.974	(1.043)	69285	7.45074	498.3773
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	764686	40.0000	
*	23 Perylene-d12	264	8.821	8.821	(1.000)	716189	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	130005	11.1770	747.6264
	3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	88644	11.1956	748.8726
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	72897	10.2320	684.4155
	5 Acenaphthylene	152	4.686	4.686	(0.982)	114095	8.10181	541.9271
	7 Acenaphthene	154	4.798	4.798	(1.005)	78010	8.94369	598.2402
	9 Fluorene	166	5.115	5.115	(1.071)	112047	9.63617	644.5598
	11 Phenanthrene	178	5.739	5.739	(1.003)	579527	31.5263	2108.7852(R)
	12 Anthracene	178	5.768	5.768	(1.008)	229913	12.3382	825.2964

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	183173	11.4735	767.4608
15 Fluoranthene	202	6.568	6.568	(1.148)	801826	39.4970	2641.9375(R)
16 Pyrene	202	6.739	6.739	(0.880)	699842	33.0389	2209.9570(R)
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	456859	20.7551	1388.2987(R)
19 Chrysene	228	7.674	7.674	(1.002)	419259	19.2407	1287.0037(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	525865	25.9721	1737.2671(R)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	278404	14.2168	950.9560(R)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	343633	18.0268	1205.8063(R)
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	260115	14.3665	960.9730(RM)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	148131	8.85670	592.4213
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	246067	13.3161	890.7081(R)

QC Flag Legend

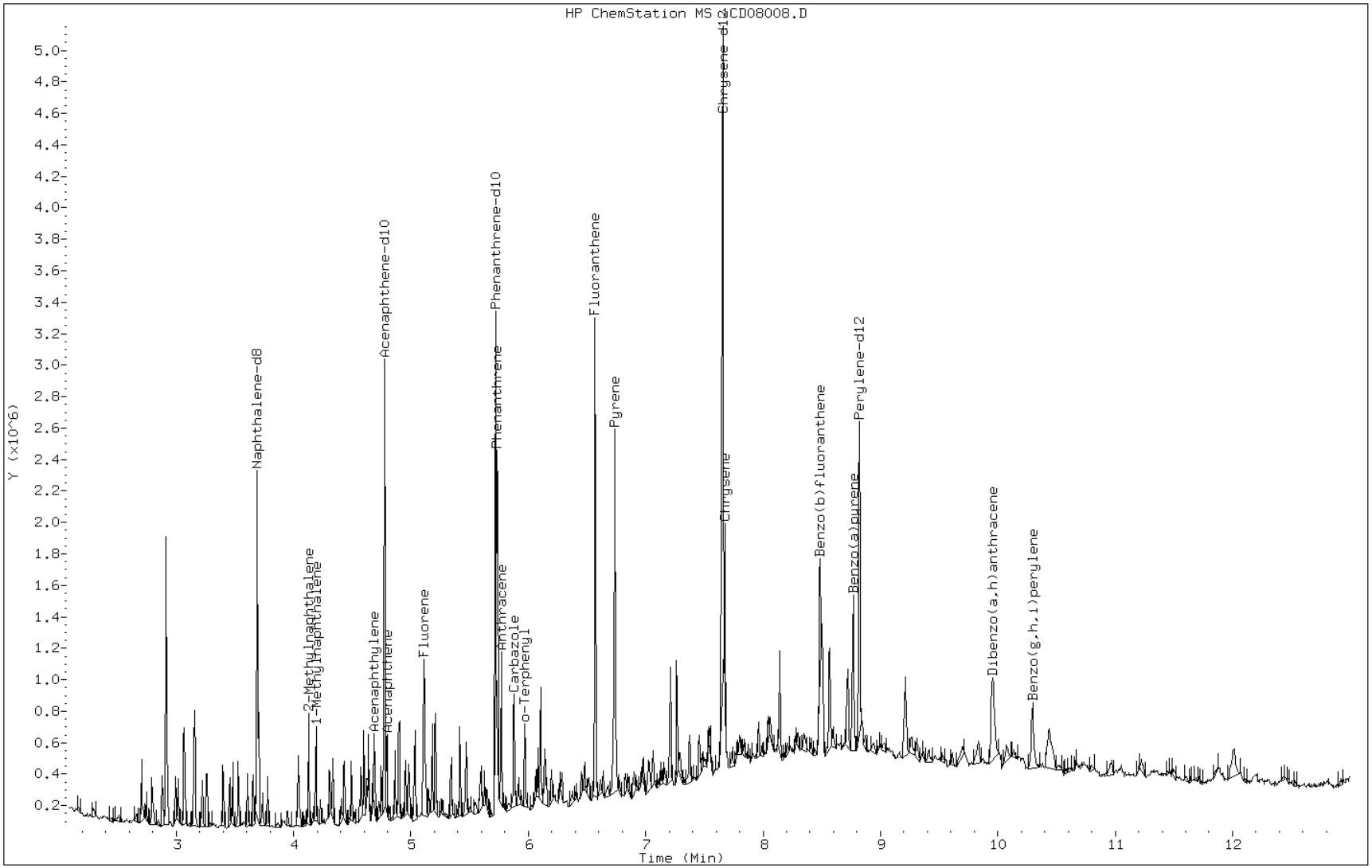
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD08008.D

Date: 08-APR-2013 14:40

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-B MS Operator: TP



Manual Integration Report

Data File: 1CD08008.D
Inj. Date and Time: 08-APR-2013 14:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

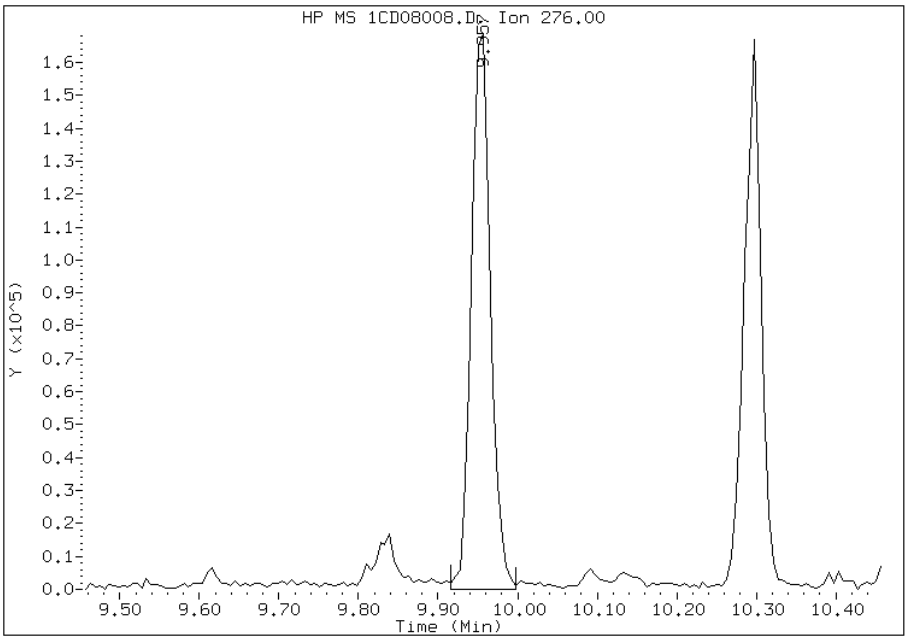
Processing Integration Results

RT: 9.96

Response: 280779

Amount: 16

Conc: 1037



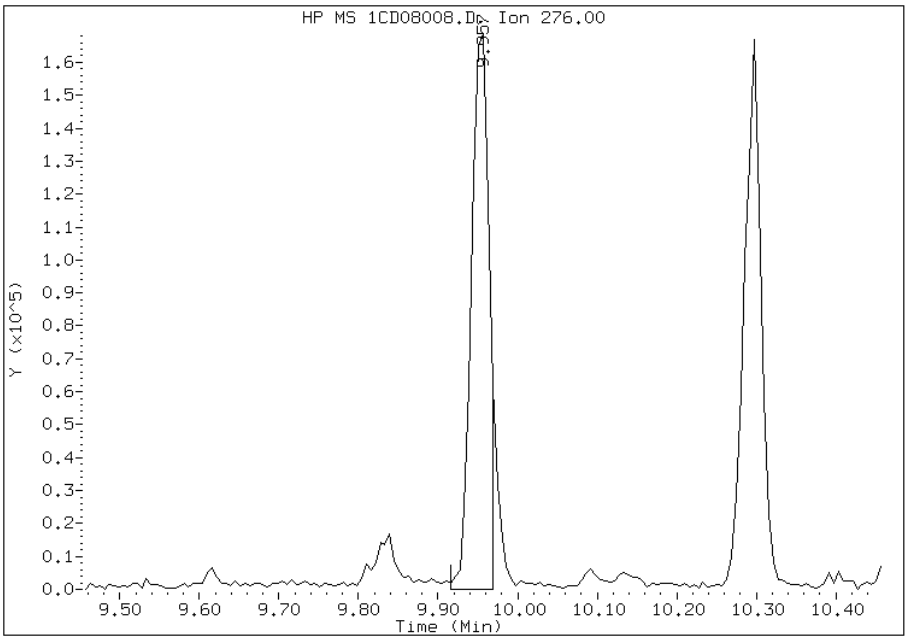
Manual Integration Results

RT: 9.96

Response: 260115

Amount: 14

Conc: 961



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CS MS DL | Lab Sample ID: 680-88811-22 MS DL

Matrix: Solid | Lab File ID: 1AD09014.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/09/2013 15:50

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	2840		78	39
206-44-0	Fluoranthene	3780		130	26
129-00-0	Pyrene	3530		130	24

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\BSMA5973.i\1A040913_IC.b\1AD09014.D
Lab Smp Id: 680-88811-A-22-B MS
Inj Date : 09-APR-2013 15:50
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-A-22-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 14 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.587	2.591	(1.000)	1563317	40.0000	
* 6	Acenaphthene-d10	164	3.623	3.622	(1.000)	838392	40.0000	
* 10	Phenanthrene-d10	188	4.574	4.573	(1.000)	1463709	40.0000	
$ 14	o-Terphenyl	230	4.878	4.877	(1.067)	53058	1.62427	434.5882
* 18	Chrysene-d12	240	6.593	6.597	(1.000)	1353057	40.0000	
* 23	Perylene-d12	264	7.677	7.676	(1.000)	1321286	40.0000	
2	Naphthalene	128	2.598	2.602	(1.004)	149949	2.65470	710.2870
3	2-Methylnaphthalene	141	3.004	3.008	(1.161)	84486	2.55366	683.2543
4	1-Methylnaphthalene	142	3.062	3.062	(1.184)	89290	2.31842	620.3121
5	Acenaphthylene	152	3.532	3.532	(0.975)	123449	2.08063	556.6897
7	Acenaphthene	154	3.639	3.638	(1.004)	75965	2.08191	557.0339
9	Fluorene	166	3.954	3.953	(1.091)	98283	2.21550	592.7764
11	Phenanthrene	178	4.590	4.589	(1.004)	391410	7.20812	1928.5940(R)
12	Anthracene	178	4.622	4.626	(1.011)	175945	2.86873	767.5534

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.750	4.755	(1.039)	135550	2.53465	678.1659
15 Fluoranthene	202	5.455	5.454	(1.193)	521745	8.86193	2371.0851(R)
16 Pyrene	202	5.621	5.620	(0.853)	430873	8.26392	2211.0820(R)
17 Benzo(a)anthracene	228	6.582	6.581	(0.998)	242127	5.36464	1435.3562(R)
19 Chrysene	228	6.609	6.613	(1.002)	233714	5.07725	1358.4603(R)
20 Benzo(b)fluoranthene	252	7.399	7.404	(0.964)	266673	6.65622	1780.9296(R)
21 Benzo(k)fluoranthene	252	7.421	7.425	(0.967)	191208	4.29712	1149.7308(R)
22 Benzo(a)pyrene	252	7.624	7.628	(0.993)	203438	4.56681	1221.8878(R)
24 Indeno(1,2,3-cd)pyrene	276	8.441	8.451	(1.099)	167602	4.79328	1282.4819(RM)
25 Dibenzo(a,h)anthracene	278	8.468	8.477	(1.103)	97140	2.90803	778.0688
26 Benzo(g,h,i)perylene	276	8.660	8.670	(1.128)	176891	4.91539	1315.1548(R)

QC Flag Legend

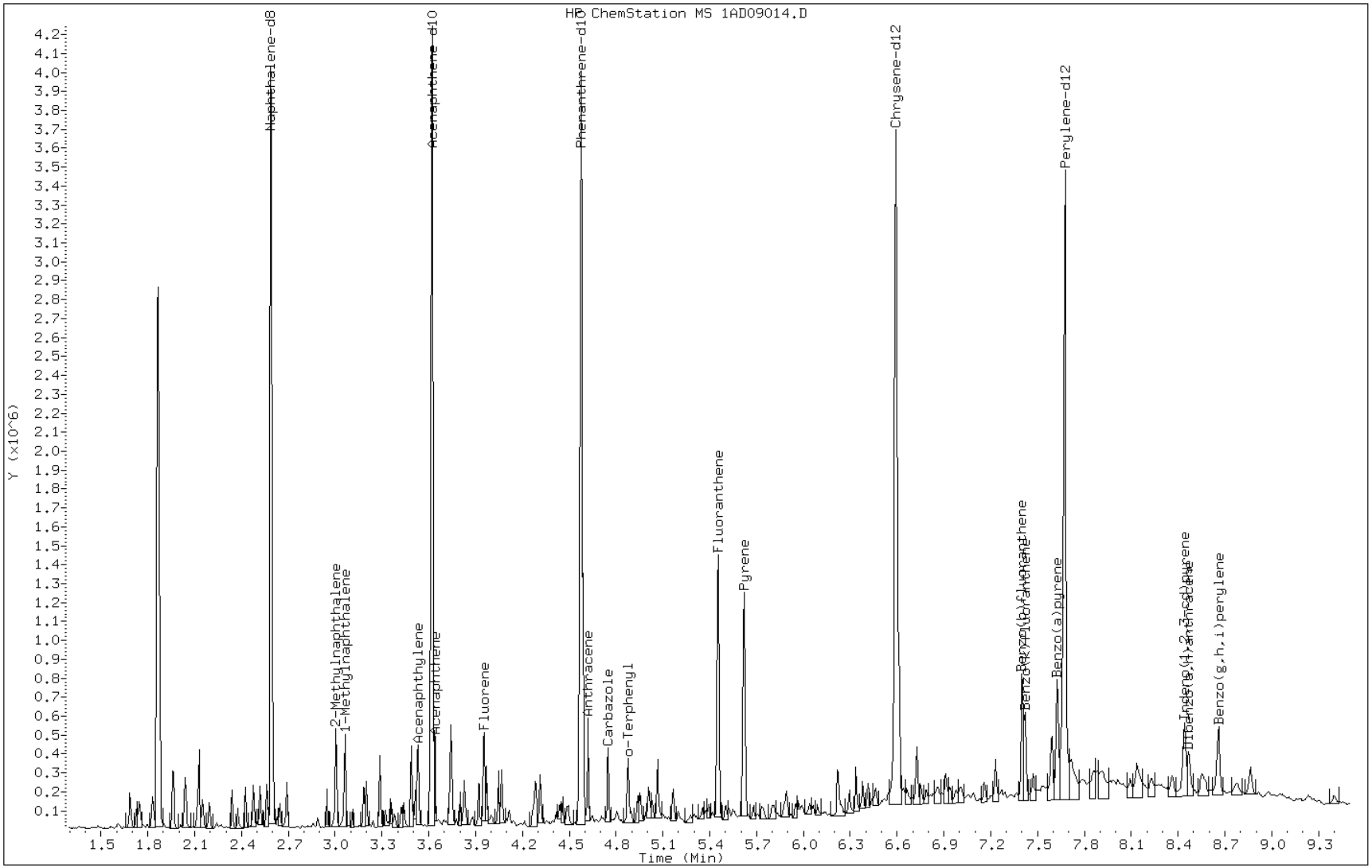
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AD09014.D

Date: 09-APR-2013 15:50

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-B MS Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: | Lab Sample ID: 680-88811-A-44-C MSD

Matrix: Solid | Lab File ID: 1CD09020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/08/2013 06:37

Sample wt/vol: 15.25(g) | Date Analyzed: 04/09/2013 17:03

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

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

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

Analysis Batch No.: 136263 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		120	24
208-96-8	Acenaphthylene	577		49	6.1
120-12-7	Anthracene	614		10	5.1
56-55-3	Benzo[a]anthracene	1040		9.7	4.8
50-32-8	Benzo[a]pyrene	1120		13	6.3
205-99-2	Benzo[b]fluoranthene	1820		15	7.4
191-24-2	Benzo[g,h,i]perylene	977		24	5.4
207-08-9	Benzo[k]fluoranthene	1050		9.7	4.4
218-01-9	Chrysene	1380		11	5.5
53-70-3	Dibenz(a,h)anthracene	638		24	5.0
206-44-0	Fluoranthene	1260		24	4.9
86-73-7	Fluorene	479		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	857		24	8.6
90-12-0	1-Methylnaphthalene	892		49	5.4
91-57-6	2-Methylnaphthalene	845		49	8.6
91-20-3	Naphthalene	729		49	5.4
85-01-8	Phenanthrene	1120		9.7	4.8
129-00-0	Pyrene	1370		24	4.5

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

TestAmerica

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09020.D
Lab Smp Id: 680-88811-a-44-c ms
Inj Date : 09-APR-2013 17:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-44-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	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	3.686	3.686	(1.000)	423377	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	316705	40.0000	
* 10 Phenanthrene-d10	188	5.715	5.716	(1.000)	569543	40.0000	
$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	55963	6.74530	442.3144
* 18 Chrysene-d12	240	7.656	7.657	(1.000)	628669	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	566055	40.0000	
2 Naphthalene	128	3.698	3.698	(1.003)	97655	8.98031	588.8726
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	76976	10.3989	681.8930
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	73140	10.9809	720.0579
5 Acenaphthylene	152	4.686	4.686	(0.982)	93095	7.10234	465.7274
7 Acenaphthene	154	4.792	4.792	(1.004)	48578	5.98365	392.3702
9 Fluorene	166	5.110	5.110	(1.070)	63806	5.89557	386.5945
11 Phenanthrene	178	5.733	5.733	(1.003)	229427	13.8311	906.9586(R)
12 Anthracene	178	5.768	5.768	(1.009)	127180	7.56344	495.9633

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	95246	6.61143	433.5366
15 Fluoranthene	202	6.568	6.568	(1.149)	284298	15.5192	1017.6548(R)
16 Pyrene	202	6.733	6.733	(0.879)	292793	16.8131	1102.4958(R)
17 Benzo(a)anthracene	228	7.651	7.645	(0.999)	231547	12.8471	842.4309
19 Chrysene	228	7.674	7.674	(1.002)	303434	16.9381	1110.6931(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	358526	22.4039	1469.1067(R)
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	200918	12.9812	851.2246
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	207327	13.7610	902.3581(R)
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	151016	10.5531	692.0048(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.131)	103803	7.85244	514.9143
26 Benzo(g,h,i)perylene	276	10.303	10.298	(1.168)	175658	12.0271	788.6609

QC Flag Legend

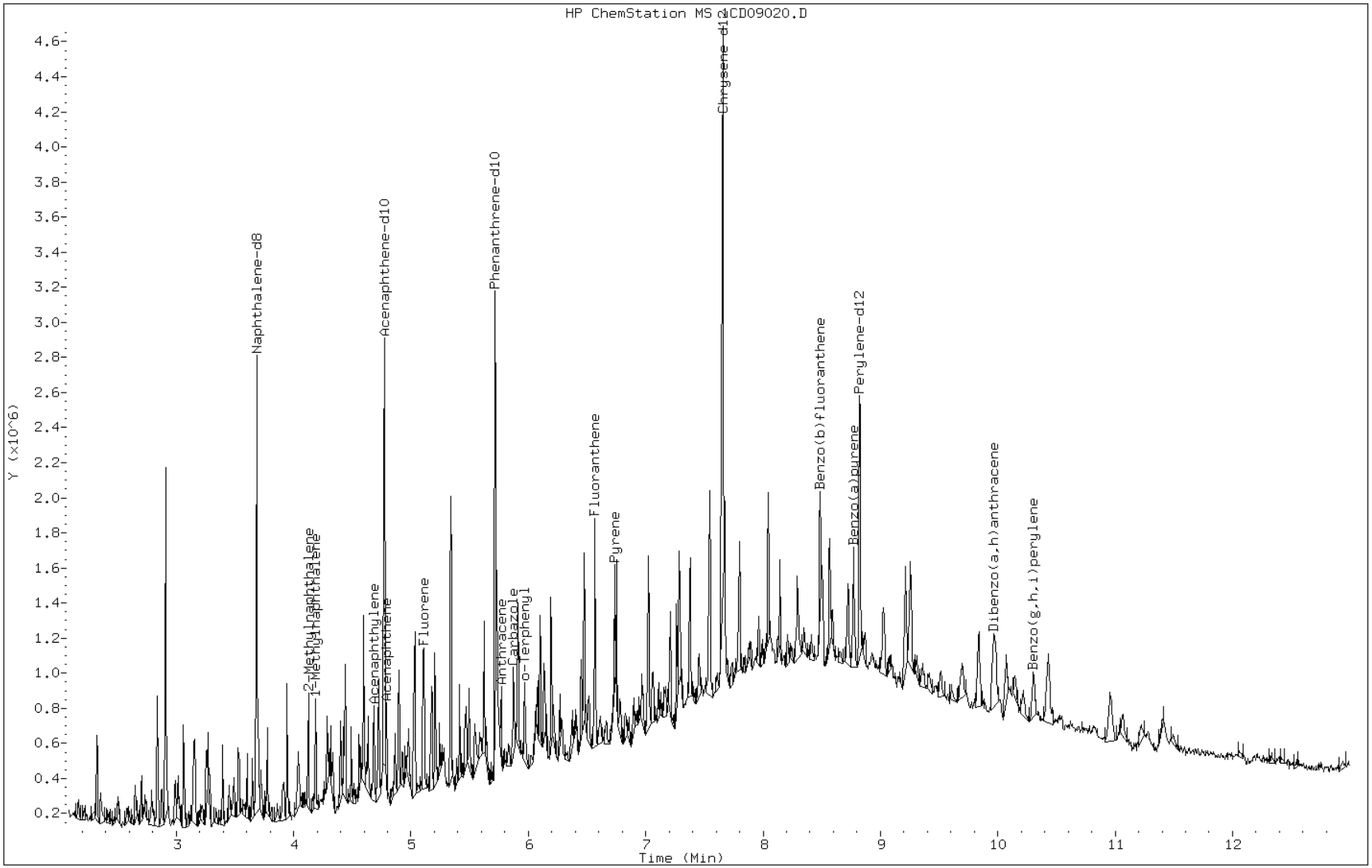
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD09020.D

Date: 09-APR-2013 17:03

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-a-44-c msd Operator: SCC



Manual Integration Report

Data File: 1CD09020.D
Inj. Date and Time: 09-APR-2013 17:03
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

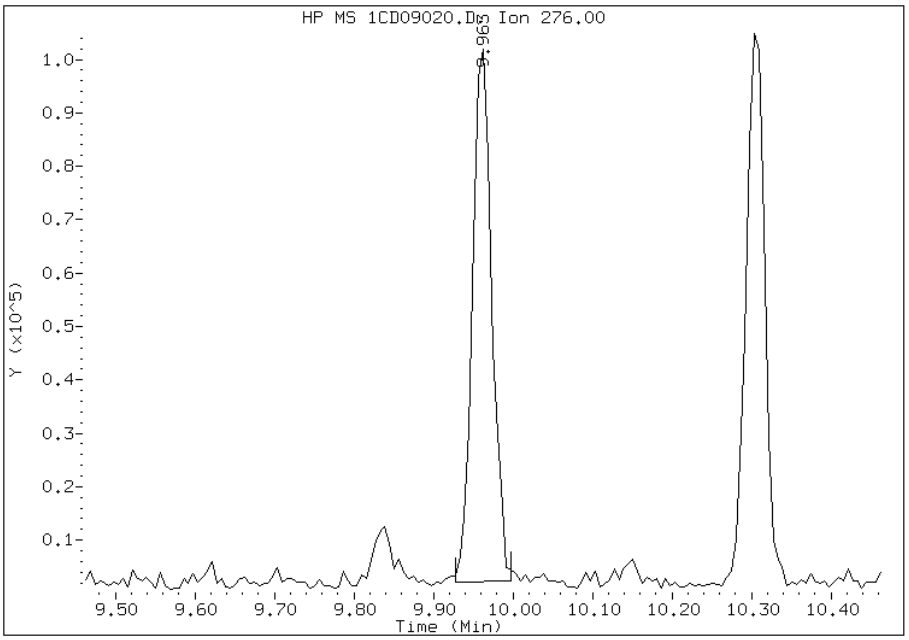
Processing Integration Results

RT: 9.96

Response: 167352

Amount: 12

Conc: 767



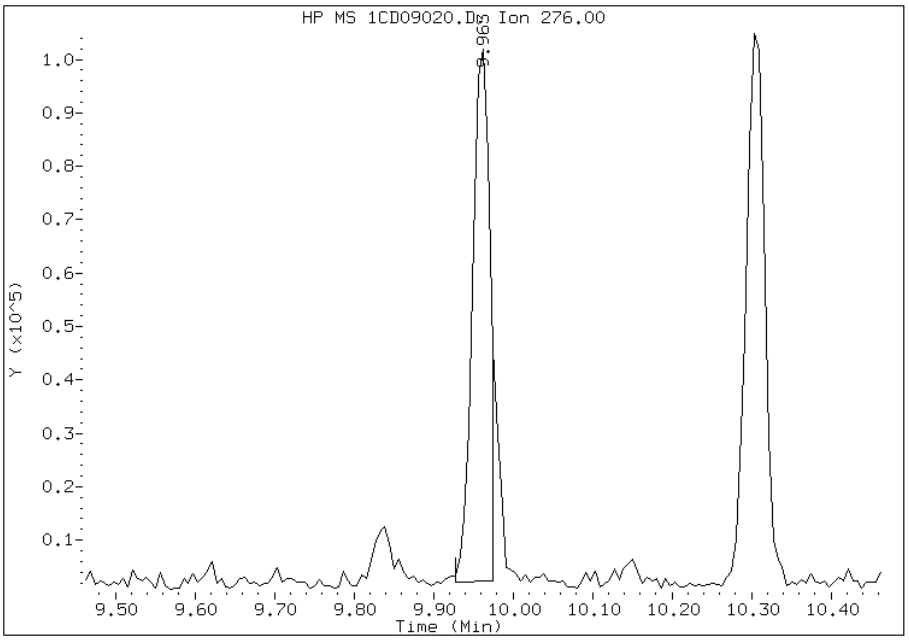
Manual Integration Results

RT: 9.96

Response: 151016

Amount: 11

Conc: 692



Manually Integrated By: CARLSONR
Modification Date: 10-Apr-2013 15:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CS MSD | Lab Sample ID: 680-88811-22 MSD

Matrix: Solid | Lab File ID: 1CD08009.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/08/2013 14:59

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136271 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	786		160	32
208-96-8	Acenaphthylene	755		64	8.0
120-12-7	Anthracene	1090		13	6.7
56-55-3	Benzo[a]anthracene	1890		13	6.2
50-32-8	Benzo[a]pyrene	1620		17	8.3
191-24-2	Benzo[g,h,i]perylene	1240		32	7.0
207-08-9	Benzo[k]fluoranthene	1310		13	5.8
218-01-9	Chrysene	1840		14	7.2
53-70-3	Dibenz(a,h)anthracene	941		32	6.6
86-73-7	Fluorene	827		32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	1340		32	11
90-12-0	1-Methylnaphthalene	829		64	7.0
91-57-6	2-Methylnaphthalene	779		64	11
91-20-3	Naphthalene	785		64	7.0
85-01-8	Phenanthrene	2480		13	6.2

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\1C040813.b\1CD08009.D
Lab Smp Id: 680-88811-A-22-C MS
Inj Date : 08-APR-2013 14:59
Operator : TP Inst ID: BSMC5973.i
Smp Info : 680-88811-A-22-C MSD
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m
Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.692	3.692	(1.000)	492885	40.0000	
*	6 Acenaphthene-d10	164	4.774	4.774	(1.000)	341978	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	638073	40.0000	
$	14 o-Terphenyl	230	5.974	5.974	(1.044)	69017	7.35215	491.7823
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	754689	40.0000	
*	23 Perylene-d12	264	8.821	8.821	(1.000)	709916	40.0000	
	2 Naphthalene	128	3.704	3.704	(1.003)	93097	7.35384	491.8955
	3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	62905	7.29958	488.2659
	4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	60257	7.77090	519.7928
	5 Acenaphthylene	152	4.686	4.686	(0.982)	100143	7.07543	473.2727
	7 Acenaphthene	154	4.792	4.798	(1.004)	64587	7.36764	492.8184
	9 Fluorene	166	5.115	5.115	(1.071)	90631	7.75528	518.7479
	11 Phenanthrene	178	5.733	5.739	(1.002)	432377	23.2665	1556.2894(R)
	12 Anthracene	178	5.768	5.768	(1.008)	192941	10.2419	685.0780

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	158703	9.83309	657.7320
15 Fluoranthene	202	6.568	6.568	(1.148)	606014	29.5281	1975.1230(R)
16 Pyrene	202	6.739	6.739	(0.880)	530840	25.3924	1698.4884(R)
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	385176	17.7501	1187.2959(R)
19 Chrysene	228	7.674	7.674	(1.002)	370435	17.2253	1152.1911(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	433182	21.5836	1443.7215(R)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	238342	12.2786	821.3083
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	287225	15.2008	1016.7768(R)
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	225256	12.5512	839.5428(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	146300	8.82452	590.2686
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	213477	11.6545	779.5676

QC Flag Legend

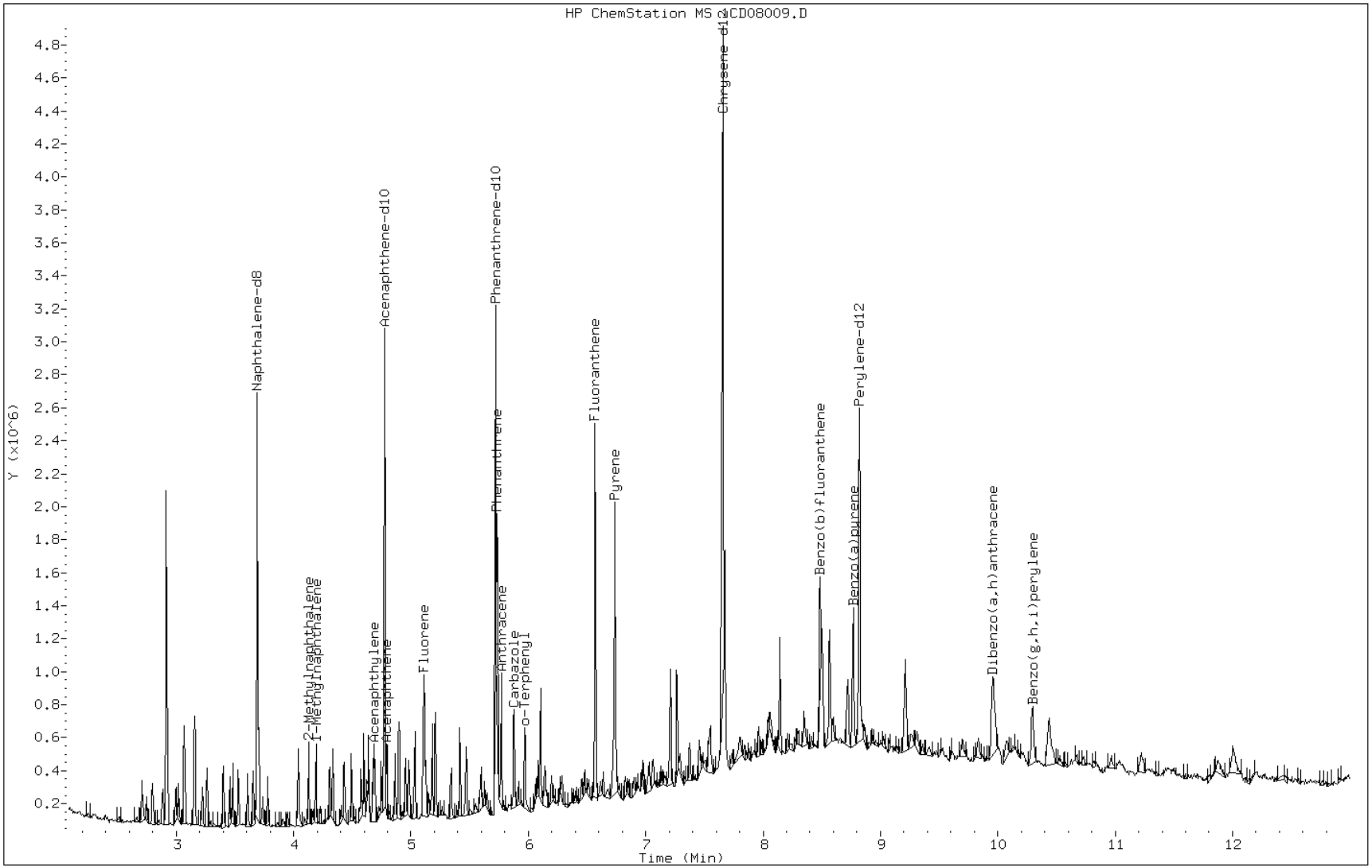
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD08009.D

Date: 08-APR-2013 14:59

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-C MSD Operator: TP



Manual Integration Report

Data File: 1CD08009.D
Inj. Date and Time: 08-APR-2013 14:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

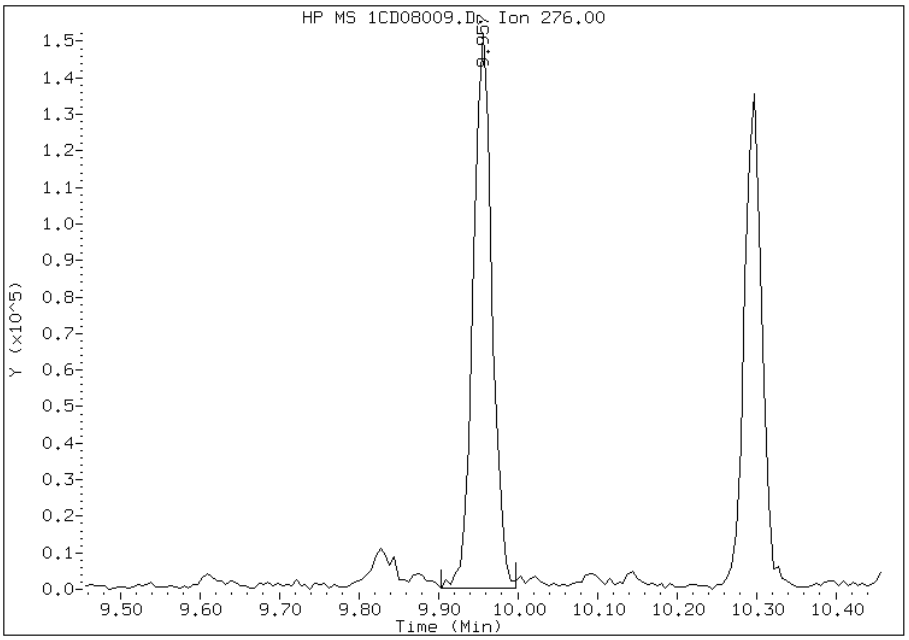
Processing Integration Results

RT: 9.96

Response: 250209

Amount: 14

Conc: 933



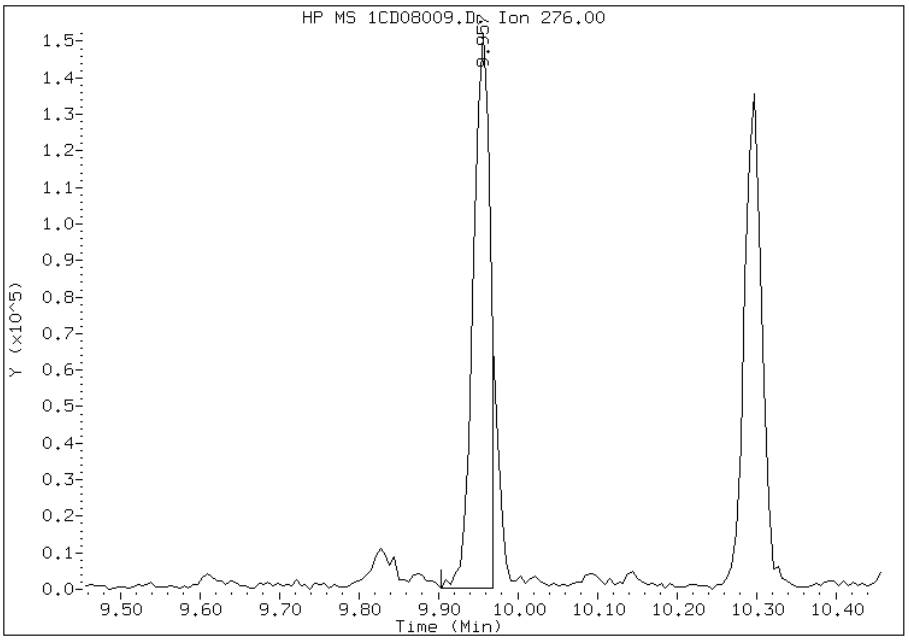
Manual Integration Results

RT: 9.96

Response: 225256

Amount: 13

Conc: 840



Manually Integrated By: perrint
Modification Date: 09-Apr-2013 14:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88811-2

SDG No.: 68088811-2

Client Sample ID: CV1039A-CS MSD DL | Lab Sample ID: 680-88811-22 MSD DL

Matrix: Solid | Lab File ID: 1AD09015.D

Analysis Method: 8270C LL | Date Collected: 03/27/2013 12:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 13:28

Sample wt/vol: 14.95(g) | Date Analyzed: 04/09/2013 16:05

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136269 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	2510		78	39
206-44-0	Fluoranthene	2770		130	26
129-00-0	Pyrene	2820		130	24

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\BSMA5973.i\1A040913_IC.b\1AD09015.D
Lab Smp Id: 680-88811-A-22-C MS
Inj Date : 09-APR-2013 16:05
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88811-A-22-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\a-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.589	2.591	(1.000)	1722885	40.0000	
* 6 Acenaphthene-d10	164	3.620	3.622	(1.000)	941394	40.0000	
* 10 Phenanthrene-d10	188	4.576	4.573	(1.000)	1578292	40.0000	
$ 14 o-Terphenyl	230	4.875	4.877	(1.065)	53189	1.51435	405.1763
* 18 Chrysene-d12	240	6.595	6.597	(1.000)	1441092	40.0000	
* 23 Perylene-d12	264	7.674	7.676	(1.000)	1423613	40.0000	
2 Naphthalene	128	2.600	2.602	(1.004)	110095	1.81954	486.8322
3 2-Methylnaphthalene	141	3.006	3.008	(1.161)	62560	1.73793	464.9992
4 1-Methylnaphthalene	142	3.064	3.062	(1.184)	73159	1.75327	469.1020
5 Acenaphthylene	152	3.529	3.532	(0.975)	112715	1.75670	470.0188
7 Acenaphthene	154	3.636	3.638	(1.004)	70635	1.78075	476.4559
9 Fluorene	166	3.951	3.953	(1.091)	88787	1.81738	486.2560
11 Phenanthrene	178	4.587	4.589	(1.002)	311062	5.07335	1357.4173(R)
12 Anthracene	178	4.624	4.626	(1.011)	152054	2.31684	619.8903

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.752	4.755	(1.039)	127034	2.19545	587.4102
15 Fluoranthene	202	5.452	5.454	(1.191)	425936	6.49563	1737.9608(R)
16 Pyrene	202	5.617	5.620	(0.852)	367201	6.61249	1769.2280(R)
17 Benzo(a)anthracene	228	6.584	6.581	(0.998)	215162	4.47597	1197.5852(R)
19 Chrysene	228	6.611	6.613	(1.002)	203959	4.16017	1113.0880(R)
20 Benzo(b)fluoranthene	252	7.401	7.404	(0.965)	254251	5.89002	1575.9240(R)
21 Benzo(k)fluoranthene	252	7.417	7.425	(0.967)	152629	3.18356	851.7891
22 Benzo(a)pyrene	252	7.626	7.628	(0.994)	179750	3.57885	957.5505(R)
24 Indeno(1,2,3-cd)pyrene	276	8.437	8.451	(1.100)	152992	4.12208	1102.8984(R)
25 Dibenzo(a,h)anthracene	278	8.469	8.477	(1.104)	98248	2.72979	730.3794
26 Benzo(g,h,i)perylene	276	8.656	8.670	(1.128)	164953	4.25420	1138.2462(R)

QC Flag Legend

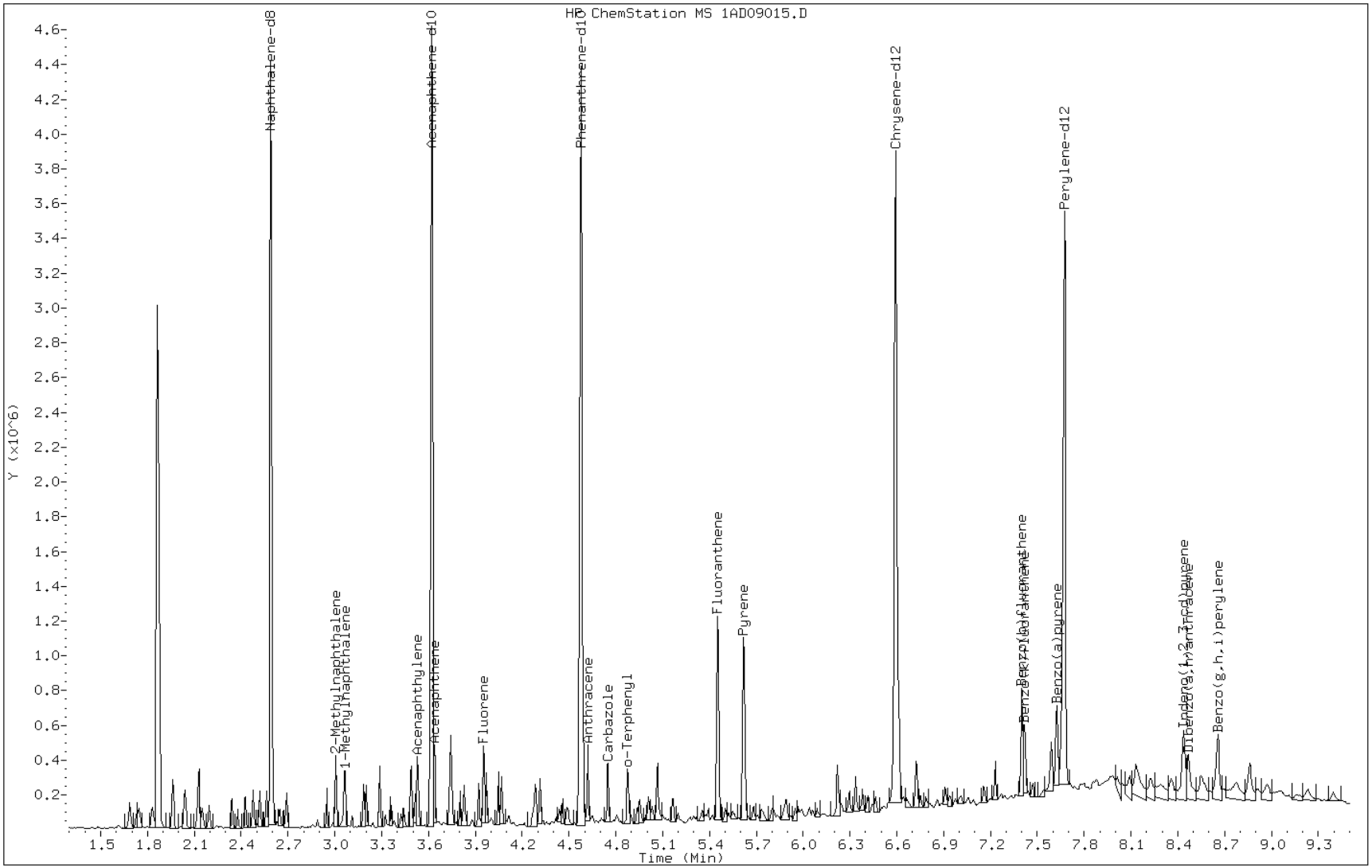
R - Spike/Surrogate failed recovery limits.

Data File: 1AD09015.D

Date: 09-APR-2013 16:05

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-C MSD Operator: SCC



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMA5973 Start Date: 04/09/2013 09:45

Analysis Batch Number: 136269 End Date: 04/09/2013 22:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 09:45	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 10:03	1		DB-5MS 250(um)
DFTPP 660-136269/2		04/09/2013 10:18	1	1AD09002.D	DB-5MS 250(um)
ICIS 660-136269/3		04/09/2013 10:31	1	1AD09003.D	DB-5MS 250(um)
IC 660-136269/4		04/09/2013 10:48	1	1AD09004.D	DB-5MS 250(um)
IC 660-136269/5		04/09/2013 11:04	1	1AD09005.D	DB-5MS 250(um)
IC 660-136269/6		04/09/2013 11:19	1	1AD09006.D	DB-5MS 250(um)
IC 660-136269/7		04/09/2013 11:33	1	1AD09007.D	DB-5MS 250(um)
IC 660-136269/8		04/09/2013 11:49	1	1AD09008.D	DB-5MS 250(um)
IC 660-136269/9		04/09/2013 12:03	1	1AD09009.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 12:19	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:15	1		DB-5MS 250(um)
ICV 660-136269/12		04/09/2013 13:51	1	1AD09012.D	DB-5MS 250(um)
680-88811-22 DL	CV1039A-CS DL	04/09/2013 15:35	4	1AD09013.D	DB-5MS 250(um)
680-88811-22 MS DL	CV1039A-CS MS DL	04/09/2013 15:50	4	1AD09014.D	DB-5MS 250(um)
680-88811-22 MSD DL	CV1039A-CS MSD DL	04/09/2013 16:05	4	1AD09015.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 17:02	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 17:17	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:03	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:18	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:33	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:48	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:03	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:18	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:33	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:48	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:03	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:18	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:33	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:49	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:19	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:04	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:19	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:34	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 22:49	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54

Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250(um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250(um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250(um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250(um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250(um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250(um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250(um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250(um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250(um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250(um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250(um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Start Date: 04/09/2013 10:54

Analysis Batch Number: 136263 End Date: 04/09/2013 21:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 11:12	1		DB-5MS 250(um)
DFTPP 660-136263/2		04/09/2013 11:31	1	1CD09002.D	DB-5MS 250(um)
CCVIS 660-136263/3		04/09/2013 11:47	1	1CD09003.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 12:10	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 12:28	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 12:46	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:05	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 13:41	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 14:00	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 14:18	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 14:36	4		DB-5MS 250(um)
MB 660-136189/1-A		04/09/2013 14:55	1	1CD09013.D	DB-5MS 250(um)
LCS 660-136189/2-A		04/09/2013 15:13	1	1CD09014.D	DB-5MS 250(um)
680-88811-35	CV1047A-CS	04/09/2013 15:31	4	1CD09015.D	DB-5MS 250(um)
680-88811-37	CV1050A-CS	04/09/2013 15:50	1	1CD09016.D	DB-5MS 250(um)
680-88811-38	CV1050B-CS	04/09/2013 16:08	4	1CD09017.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 16:26	1		DB-5MS 250(um)
680-88811-A-44-B MS		04/09/2013 16:45	1	1CD09019.D	DB-5MS 250(um)
680-88811-A-44-C MSD		04/09/2013 17:03	1	1CD09020.D	DB-5MS 250(um)
680-88811-45	CV1119B-CS	04/09/2013 17:21	4	1CD09021.D	DB-5MS 250(um)
680-88811-46	CV1119C-GS	04/09/2013 17:39	4	1CD09022.D	DB-5MS 250(um)
ZZZZZ		04/09/2013 17:58	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:16	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:34	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 18:53	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:29	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 19:48	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:06	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:24	1		DB-5MS 250(um)
ZZZZZ		04/09/2013 20:43	4		DB-5MS 250(um)
ZZZZZ		04/09/2013 21:01	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Start Date: 04/08/2013 12:21

Analysis Batch Number: 136271 End Date: 04/08/2013 23:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/08/2013 12:21	1		DB-5MS 250(um)
DFTPP 660-136271/2		04/08/2013 12:39	1	1CD08002.D	DB-5MS 250(um)
CCVIS 660-136271/3		04/08/2013 12:56	1	1CD08003.D	DB-5MS 250(um)
ZZZZZ		04/08/2013 13:14	1		DB-5MS 250(um)
MB 660-136127/1-A		04/08/2013 13:45	1	1CD08005.D	DB-5MS 250(um)
LCS 660-136127/2-A		04/08/2013 14:04	1	1CD08006.D	DB-5MS 250(um)
680-88811-22	CV1039A-CS	04/08/2013 14:22	1	1CD08007.D	DB-5MS 250(um)
680-88811-22 MS	CV1039A-CS MS	04/08/2013 14:40	1	1CD08008.D	DB-5MS 250(um)
680-88811-22 MSD	CV1039A-CS MSD	04/08/2013 14:59	1	1CD08009.D	DB-5MS 250(um)
ZZZZZ		04/08/2013 15:17	1		DB-5MS 250(um)
ZZZZZ		04/08/2013 15:35	1		DB-5MS 250(um)
ZZZZZ		04/08/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		04/08/2013 16:12	1		DB-5MS 250(um)
680-88811-21	CV1036B-CS	04/08/2013 16:30	1	1CD08014.D	DB-5MS 250(um)
680-88811-23	CV1039A-CSD	04/08/2013 16:49	1	1CD08015.D	DB-5MS 250(um)
680-88811-24	CV1039B-CS	04/08/2013 17:07	1	1CD08016.D	DB-5MS 250(um)
680-88811-25	CV1040A-CS	04/08/2013 17:25	1	1CD08017.D	DB-5MS 250(um)
680-88811-26	CV1042A-CS	04/08/2013 17:44	1	1CD08018.D	DB-5MS 250(um)
680-88811-27	CV1366A-CS	04/08/2013 18:02	1	1CD08019.D	DB-5MS 250(um)
680-88811-28	CV1366B-CS	04/08/2013 18:20	1	1CD08020.D	DB-5MS 250(um)
680-88811-29	CV1043A-CS	04/08/2013 18:38	1	1CD08021.D	DB-5MS 250(um)
680-88811-30	CV1043B-CS	04/08/2013 18:57	1	1CD08022.D	DB-5MS 250(um)
680-88811-31	CV1049A-CS	04/08/2013 19:15	1	1CD08023.D	DB-5MS 250(um)
680-88811-32	CV1049B-CS	04/08/2013 19:33	1	1CD08024.D	DB-5MS 250(um)
680-88811-33	CV1042B-CS	04/08/2013 19:52	1	1CD08025.D	DB-5MS 250(um)
680-88811-34	CV1042C-CS	04/08/2013 20:10	1	1CD08026.D	DB-5MS 250(um)
680-88811-36	CV1047B-CS	04/08/2013 20:28	1	1CD08027.D	DB-5MS 250(um)
ZZZZZ		04/08/2013 20:46	1		DB-5MS 250(um)
ZZZZZ		04/08/2013 21:05	1		DB-5MS 250(um)
ZZZZZ		04/08/2013 21:23	4		DB-5MS 250(um)
ZZZZZ		04/08/2013 21:41	4		DB-5MS 250(um)
ZZZZZ		04/08/2013 22:00	4		DB-5MS 250(um)
ZZZZZ		04/08/2013 22:18	4		DB-5MS 250(um)
ZZZZZ		04/08/2013 22:36	4		DB-5MS 250(um)
ZZZZZ		04/08/2013 22:55	4		DB-5MS 250(um)
ZZZZZ		04/08/2013 23:13	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: BSMC5973 Start Date: 04/10/2013 11:17

Analysis Batch Number: 136309 End Date: 04/10/2013 16:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/10/2013 11:17	1		DB-5MS 250(um)
ZZZZZ		04/10/2013 11:35	1		DB-5MS 250(um)
DFTPP 660-136309/2		04/10/2013 11:53	1	1CD10002.D	DB-5MS 250(um)
CCVIS 660-136309/3		04/10/2013 12:10	1	1CD10003.D	DB-5MS 250(um)
ZZZZZ		04/10/2013 12:28	1		DB-5MS 250(um)
ZZZZZ		04/10/2013 12:47	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 13:05	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 13:24	1		DB-5MS 250(um)
ZZZZZ		04/10/2013 13:42	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 14:00	4		DB-5MS 250(um)
ZZZZZ		04/10/2013 14:19	4		DB-5MS 250(um)
680-88811-31 DL	CV1049A-CS DL	04/10/2013 14:37	4	1CD10011.D	DB-5MS 250(um)
680-88811-32 DL	CV1049B-CS DL	04/10/2013 14:55	4	1CD10012.D	DB-5MS 250(um)
680-88811-37 DL	CV1050A-CS DL	04/10/2013 15:42	4	1CD10013.D	DB-5MS 250(um)
ZZZZZ		04/10/2013 16:05	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 136127 Batch Start Date: 04/04/13 13:28 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/05/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-136127/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-136127/2		3546, 8270C LL		15.11 g	1 mL	1 mL	1 mL		
680-88811-A-21	CV1036B-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-88811-A-22	CV1039A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88811-A-22 MS	CV1039A-CS	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-88811-A-22 MSD	CV1039A-CS	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-88811-A-23	CV1039A-CSD	3546, 8270C LL	T	15.40 g	1 mL		1 mL		
680-88811-A-24	CV1039B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88811-A-25	CV1040A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-88811-A-26	CV1042A-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88811-A-27	CV1366A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-88811-A-28	CV1366B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88811-A-29	CV1043A-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-88811-A-30	CV1043B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88811-A-31	CV1049A-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88811-A-32	CV1049B-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88811-A-33	CV1042B-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88811-A-34	CV1042C-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88811-A-36	CV1047B-CS	3546, 8270C LL	T	15.23 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.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 136127 Batch Start Date: 04/04/13 13:28 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/05/13 11:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
Hexane Lot#	N.A
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 63
Microwave Start Time	14:00 4/4/13
Microwave Stop Time	14:35 4/4/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 136189 Batch Start Date: 04/08/13 06:37 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/08/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00178		
MB 660-136189/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-136189/2		3546, 8270C LL		15.16 g	1 mL	1 mL	1 mL		
680-88811-A-35	CV1047A-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88811-A-37	CV1050A-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-88811-A-38	CV1050B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88811-A-44 MS		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-88811-A-44 MSD		3546, 8270C LL	T	15.25 g	1 mL	1 mL	1 mL		
680-88811-A-45	CV1119B-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88811-A-46	CV1119C-GS	3546, 8270C LL	T	15.03 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.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 136189 Batch Start Date: 04/08/13 06:37 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/08/13 15:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 65
Microwave Start Time	9:20 4/8/13
Microwave Stop Time	9:55 4/8/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP-EX-014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88811-2

SDG No.: 68088811-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1036B-CS	680-88811-21
CV1039A-CS	680-88811-22
CV1039A-CSD	680-88811-23
CV1039B-CS	680-88811-24
CV1040A-CS	680-88811-25
CV1042A-CS	680-88811-26
CV1366A-CS	680-88811-27
CV1366B-CS	680-88811-28
CV1043A-CS	680-88811-29
CV1043B-CS	680-88811-30
CV1049A-CS	680-88811-31
CV1049B-CS	680-88811-32
CV1042B-CS	680-88811-33
CV1042C-CS	680-88811-34
CV1047A-CS	680-88811-35
CV1047B-CS	680-88811-36
CV1050A-CS	680-88811-37
CV1050B-CS	680-88811-38
CV1119B-CS	680-88811-45
CV1119C-GS	680-88811-46

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88811-2

SDG Number: 68088811-2

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: 680-88811-2

SDG Number: 68088811-2

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: 680-88811-2

SDG Number: 68088811-2

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: 680-88811-2

SDG Number: 68088811-2

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.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: Moisture Method: Moisture

Start Date: 04/01/2013 09:19 End Date: 04/01/2013 13:40

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
LCSD 660-135992/22	1	T	09:19	X																				
LCS 660-135992/1	1	T	09:19	X																				
ZZZZZZ			09:22																					
ZZZZZZ			10:29																					
ZZZZZZ			10:29																					
ZZZZZZ			11:42																					
ZZZZZZ			11:42																					
ZZZZZZ			12:02																					
ZZZZZZ			12:18																					
680-88811-29	1	T	12:19	X																				
ZZZZZZ			12:26																					
ZZZZZZ			12:32																					
680-88811-33	1	T	12:44	X																				
ZZZZZZ			12:45																					
ZZZZZZ			12:56																					
ZZZZZZ			12:57																					
ZZZZZZ			13:06																					
ZZZZZZ			13:08																					
ZZZZZZ			13:10																					
ZZZZZZ			13:24																					
ZZZZZZ			13:30																					
ZZZZZZ			13:40																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 07:04 End Date: 04/01/2013 07:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			07:04																				
ZZZZZZ			07:04																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 07:04 End Date: 04/01/2013 07:04

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
ZZZZZZ			07:04																					
ZZZZZZ			07:04																					
ZZZZZZ			07:04																					
ZZZZZZ			07:04																					
ZZZZZZ			07:04																					
680-88811-22	1	T	07:04	X																				
680-88811-22 MS	1	T	07:04	X																				
680-88811-22 MSD	1	T	07:04	X																				
ZZZZZZ			07:04																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 08:16 End Date: 04/01/2013 08:16

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
680-88811-A-44 MS	1	T	08:16	X																				
680-88811-A-44 MSD	1	T	08:16	X																				
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
680-88811-23	1	T	08:16	X																				
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
680-88811-A-62 MS	1	T	08:16	X																				
680-88811-A-62 MSD	1	T	08:16	X																				
680-88811-34	1	T	08:16	X																				
680-88811-30	1	T	08:16	X																				
ZZZZZZ			08:16																					
680-88811-45	1	T	08:16	X																				
680-88811-35	1	T	08:16	X																				
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
ZZZZZZ			08:16																					
680-88811-31	1	T	08:16	X																				
ZZZZZZ			08:16																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 10:25 End Date: 04/01/2013 10:25

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
680-88811-25	1	T	10:25	X																				
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
680-88811-38	1	T	10:25	X																				
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
680-88811-27	1	T	10:25	X																				
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
680-88811-21	1	T	10:25	X																				
680-88811-37	1	T	10:25	X																				
ZZZZZZ			10:25																					
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ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
ZZZZZZ			10:25																					
680-88811-26	1	T	10:25	X																				
680-88811-28	1	T	10:25	X																				
ZZZZZZ			10:25																					
680-88811-46	1	T	10:25	X																				
680-88811-24	1	T	10:25	X																				
ZZZZZZ			10:25																					
680-88811-32	1	T	10:25	X																				
ZZZZZZ			10:25																					
680-88811-36	1	T	10:25	X																				
ZZZZZZ			10:25																					
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 135961 Batch Start Date: 04/01/13 07:04 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-22	CV1039A-CS	Moisture	T	46	0 g	4.45 g	2.79 g		
680-88811-A-22 MS	CV1039A-CS	Moisture	T	46	0 g	4.45 g	2.79 g		
680-88811-A-22 MSD	CV1039A-CS	Moisture	T	46	0 g	4.45 g	2.79 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.1.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 135964 Batch Start Date: 04/01/13 08:16 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-44 MS		Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-44 MSD		Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-23	CV1039A-CSD	Moisture	T	7	0 g	4.49 g	3.75 g		
680-88811-A-62 MS		Moisture	T	14	0 g	4.28 g	3.47 g		
680-88811-A-62 MSD		Moisture	T	14	0 g	4.28 g	3.47 g		
680-88811-A-34	CV1042C-CS	Moisture	T	15	0 g	4.57 g	3.44 g		
680-88811-A-30	CV1043B-CS	Moisture	T	16	0 g	4.30 g	3.27 g		
680-88811-A-45	CV1119B-CS	Moisture	T	18	0 g	4.21 g	3.62 g		
680-88811-A-35	CV1047A-CS	Moisture	T	19	0 g	5.47 g	4.37 g		
680-88811-A-31	CV1049A-CS	Moisture	T	25	0 g	4.72 g	3.77 g		

Batch Notes	
Balance ID	2 No Unit

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.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 135977 Batch Start Date: 04/01/13 10:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-25	CV1040A-CS	Moisture	T	4	0 g	4.06 g	2.88 g		
680-88811-A-38	CV1050B-CS	Moisture	T	9	0 g	4.38 g	3.55 g		
680-88811-A-27	CV1366A-CS	Moisture	T	12	0 g	4.78 g	3.63 g		
680-88811-A-21	CV1036B-CS	Moisture	T	15	0 g	4.96 g	3.94 g		
680-88811-A-37	CV1050A-CS	Moisture	T	16	0 g	5.10 g	4.39 g		
680-88811-A-26	CV1042A-CS	Moisture	T	23	0 g	4.15 g	3.12 g		
680-88811-A-28	CV1366B-CS	Moisture	T	24	0 g	4.49 g	3.54 g		
680-88811-A-46	CV1119C-GS	Moisture	T	26	0 g	4.21 g	3.31 g		
680-88811-A-24	CV1039B-CS	Moisture	T	27	0 g	4.63 g	3.82 g		
680-88811-A-32	CV1049B-CS	Moisture	T	29	0 g	5.52 g	4.25 g		
680-88811-A-36	CV1047B-CS	Moisture	T	31	0 g	4.54 g	3.56 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.1.13
Time samples were place in the oven	1330
Date samples were removed from oven	4.2.13
Time Samples were removed from oven	0622

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.: 680-88811-2

SDG No.: 68088811-2

Batch Number: 135992 Batch Start Date: 04/01/13 09:19 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135992/1		Moisture		0 g	10.037 g	9.023 g			
680-88811-A-33	CV1042B-CS	Moisture	T	0 g	4.609 g	3.8 g			
680-88811-A-29	CV1043A-CS	Moisture	T	0 g	4.449 g	3.463 g			
LCSD 660-135992/22		Moisture		0 g	10.008 g	9.015 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 63533

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO. / CLIENT FAX
Lisa Harvey		

(b) (6)

CLIENT NAME | CLIENT E-MAIL

(b) (6)

CLI (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	Metals: RCRA	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-27-13	0945	CV0013 A-CS	C		X			X				
	0955	CV0013 B-CS	C		X			X				
	0958	CV0013 C-CS	C		X			X				
	1000	CV0013 DC-CSD	C		X			X				
	1007	CV0013 D-CS	C		X			X				
	1015	CV0013 E-CS	C		X			X				
	0950	CV0013 AB-GS	G		X			X				
	1235	CV1036A-CS	C		X			X				
	1240	CV1036B-CS	C		X			X				
	1240	CV1039A-CS	C		X			X	X			
	1240	CV1039A-CSD	C		X			X	X			
	1250	CV1039B-CS	C		X			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	3-28-13	12:00						
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
MSF	03/29/13	0945	YES ○ NO ○		680-98811	3.6 C

TAL8240-680 (1008)

Serial Number 63534

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Remedial	200S148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

CLIENT NAME _____ CLIENT E-MAIL (b) (6)

CLIENT ADDRESS (b) (6)

CLIENT FAX _____

COMPANY CONTRACTING THIS WORK (if applicable)

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 2 PAH; Metals - RCRA 8

PRESERVATIVE

PAGE 3 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	MATRIX	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-27-13	1255	CV1040A-CS	C, SOLID	2 PAH, Metals	
	1312	CV1042A-CS	C, SOLID	2 PAH	
	1310	CV1366A-CS	C, SOLID	2 PAH, Metals	
	1320	CV1366B-CS	C, SOLID	2 PAH	
	1415	CV1043A-CS	C, SOLID	2 PAH	
	1425	CV1043B-CS	C, SOLID	2 PAH, Metals	
	1410	CV1049A-CS	C, SOLID	2 PAH	
	1415	CV1049B-CS	C, SOLID	2 PAH	
	1318	CV1042B-CS	C, SOLID	2 PAH	
	1325	CV1042C-CS	C, SOLID	2 PAH, Metals	
	1450	CV1047A-CS	C, SOLID	2 PAH	
	1459	CV1047B-CS	C, SOLID	2 PAH	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Austin	3-28-13	12:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/29/13	0945	YES ○ NO ○		680 98811	3.6 C

TAL8240-680 (1008)

Serial Number 63535

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6) CLIENT FAX

CLIENT NAME (b) (6) CLIENT E-MAIL

CLIENT ADDRESS (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 4 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	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	Metals - RCRA 8	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-27-B	1430	CV1050A-CS	C		X			X				
	1435	CV1050B-CS	C		X			X				
	1240	CV1039A-CS (sieve)	C		X			2	X			
	1240	CV1039A-CSD (Sieve)	C		X			2	X			
	1325	CV1042C-CS (sieve)	C		X				X			
	1425	CV1043B-CS (sieve)	C		X				X			
	1310	CV1366A-CS (sieve)	C		X				X			

2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	3-28-13	12:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/24/13	0945	YES ○ NO ○		680-88811	3.6°

TAL8240-680 (1008)

Serial Number 63536

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM: (b) (6) CLIENT PHONE: CLIENT FAX:

CLIENT NAME: (b) (6) CLIENT E-MAIL:

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, ...)	22 PAH	Metals RCRA 8	PRESERVATIVE	REMARKS
3	3-28-13	0915	CV1119 A-CS	C		X			X			
		0925	CV1119 B-CS	C		X			X	X		
2		0935	CV1119 C-GS	G		X			X			
		0935	CV1119 C-GSD	G		X			X			
		0940	CV1119 D-GS	G		X			X			
		1955	CV1120 A-CS	C		X			X			
		1005	CV1120 B-CS	C		X			X			
		0845	CV1121 A-CS	C		X			X			
		0850	CV1121 B-CS	C		X			X			
		0859	CV1121 C-CS	C		X			X			
		1050	CV1122 A-CS	C		X			X			
		1100	CV1122B-CS	C		X			X			

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Maslin	3-28-13	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/29/13	0945	YES ○ NO ○		680-89811	3.8°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
SDG Number: 68088811-2

Login Number: 88811
List Source: TestAmerica Savannah
List Number: 1
Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
SDG Number: 68088811-2

Login Number: 88811
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/30/13 10:20 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: 680-88811-2
TestAmerica Sample Delivery Group: 68088811-2
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
4/10/2013 5:16:16 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-88811-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88811-2

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 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6º C and 3.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1036B-CS (680-88811-21), CV1039A-CS (680-88811-22), CV1039A-CSD (680-88811-23), CV1039B-CS (680-88811-24), CV1040A-CS (680-88811-25), CV1042A-CS (680-88811-26), CV1366A-CS (680-88811-27), CV1366B-CS (680-88811-28), CV1043A-CS (680-88811-29), CV1043B-CS (680-88811-30), CV1049A-CS (680-88811-31), CV1049B-CS (680-88811-32), CV1042B-CS (680-88811-33), CV1042C-CS (680-88811-34), CV1047A-CS (680-88811-35), CV1047B-CS (680-88811-36), CV1050A-CS (680-88811-37), CV1050B-CS (680-88811-38), CV1119B-CS (680-88811-45) and CV1119C-GS (680-88811-46) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/04/2013 and 04/08/2013 and analyzed on 04/08/2013, 04/09/2013 and 04/10/2013.

Samples CV1039A-CS (680-88811-22)[4X], CV1049A-CS (680-88811-31)[4X], CV1049B-CS (680-88811-32)[4X], CV1047A-CS (680-88811-35)[4X], CV1050A-CS (680-88811-37)[4X], CV1050B-CS (680-88811-38)[4X], CV1119B-CS (680-88811-45)[4X] and CV1119C-GS (680-88811-46)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recvored the recovery criteria for the MS/MSD of sample CV1039A-CS (680-88811-22) in batch 660-136269. 2-Methylnaphthalene and Naphthalene exceeded the rpd limit.

Several analytes recovered the recovery criteria for the MS/MSD of sample 680-88811-44 in batch 660-136263.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

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: 680-88811-2
SDG: 68088811-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88811-21	CV1036B-CS	Solid	03/27/13 12:40	03/29/13 09:45
680-88811-22	CV1039A-CS	Solid	03/27/13 12:40	03/29/13 09:45
680-88811-23	CV1039A-CSD	Solid	03/27/13 12:40	03/29/13 09:45
680-88811-24	CV1039B-CS	Solid	03/27/13 12:50	03/29/13 09:45
680-88811-25	CV1040A-CS	Solid	03/27/13 12:55	03/29/13 09:45
680-88811-26	CV1042A-CS	Solid	03/27/13 13:12	03/29/13 09:45
680-88811-27	CV1366A-CS	Solid	03/27/13 13:10	03/29/13 09:45
680-88811-28	CV1366B-CS	Solid	03/27/13 13:20	03/29/13 09:45
680-88811-29	CV1043A-CS	Solid	03/27/13 14:15	03/29/13 09:45
680-88811-30	CV1043B-CS	Solid	03/27/13 14:25	03/29/13 09:45
680-88811-31	CV1049A-CS	Solid	03/27/13 14:10	03/29/13 09:45
680-88811-32	CV1049B-CS	Solid	03/27/13 14:15	03/29/13 09:45
680-88811-33	CV1042B-CS	Solid	03/27/13 13:18	03/29/13 09:45
680-88811-34	CV1042C-CS	Solid	03/27/13 13:25	03/29/13 09:45
680-88811-35	CV1047A-CS	Solid	03/27/13 14:50	03/29/13 09:45
680-88811-36	CV1047B-CS	Solid	03/27/13 14:59	03/29/13 09:45
680-88811-37	CV1050A-CS	Solid	03/27/13 14:30	03/29/13 09:45
680-88811-38	CV1050B-CS	Solid	03/27/13 14:35	03/29/13 09:45
680-88811-45	CV1119B-CS	Solid	03/28/13 09:25	03/29/13 09:45
680-88811-46	CV1119C-GS	Solid	03/28/13 09:35	03/29/13 09:45

Method Summary

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
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: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1036B-CS

Lab Sample ID: 680-88811-21

Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Acenaphthylene	**15**	**J**	50	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Anthracene	**20**		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[a]anthracene	**240**		9.9	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[a]pyrene	**220**		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[b]fluoranthene	**450**		15	7.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[g,h,i]perylene	**220**		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Benzo[k]fluoranthene	**140**		9.9	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Chrysene	**250**		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Dibenz(a,h)anthracene	**80**		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Fluoranthene	**260**		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Indeno[1,2,3-cd]pyrene	**220**		25	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
1-Methylnaphthalene	**37**	**J**	50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
2-Methylnaphthalene	**55**		50	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Naphthalene	**40**	**J**	50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Phenanthrene	**110**		9.9	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1
Pyrene	**240**		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/04/13 13:28*	*04/08/13 16:30*	*1*

Client Sample ID: CV1039A-CS

Lab Sample ID: 680-88811-22

Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 62.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**150**	**J**	160	32	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Acenaphthylene	**120**		64	8.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Anthracene	**2100**	**F**	13	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[a]anthracene	**4800**	**4**	13	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[a]pyrene	**4200**	**F**	17	8.3	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[g,h,i]perylene	**2900**	**F**	32	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Benzo[k]fluoranthene	**2200**	**F**	13	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Chrysene	**4800**	**4**	14	7.2	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Dibenz(a,h)anthracene	**940**	**F**	32	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Fluorene	**250**		32	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Indeno[1,2,3-cd]pyrene	**2700**	**F**	32	11	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
1-Methylnaphthalene	**170**		64	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
2-Methylnaphthalene	**170**	**F**	64	11	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Naphthalene	**260**	**F**	64	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1
Phenanthrene	**4500**	**4**	13	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/04/13 13:28*	*04/08/13 14:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**5200**	**4**	78	39	ug/Kg	☼	04/04/13 13:28	04/09/13 15:35	4

Client Sample ID: CV1039A-CS

Lab Sample ID: 680-88811-22
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 62.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	7300	4	130	26	ug/Kg	☼	04/04/13 13:28	04/09/13 15:35	4
Pyrene	6000	4	130	24	ug/Kg	☼	04/04/13 13:28	04/09/13 15:35	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/04/13 13:28*	*04/09/13 15:35*	*4*

Client Sample ID: CV1039A-CSD

Lab Sample ID: 680-88811-23
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	86	J	120	23	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Acenaphthylene	120		47	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Anthracene	180		9.8	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[a]anthracene	860		9.3	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[a]pyrene	720		12	6.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[b]fluoranthene	1100		14	7.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[g,h,i]perylene	490		23	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Benzo[k]fluoranthene	480		9.3	4.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Chrysene	810		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Dibenz(a,h)anthracene	140		23	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Fluoranthene	1400		23	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Fluorene	59		23	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Indeno[1,2,3-cd]pyrene	460		23	8.3	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
1-Methylnaphthalene	110		47	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
2-Methylnaphthalene	160		47	8.3	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Naphthalene	400		47	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Phenanthrene	780		9.3	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1
Pyrene	1300		23	4.3	ug/Kg	☼	04/04/13 13:28	04/08/13 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*30 - 130*	*04/04/13 13:28*	*04/08/13 16:49*	*1*

Client Sample ID: CV1039B-CS

Lab Sample ID: 680-88811-24
Date Collected: 03/27/13 12:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

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	☼	04/04/13 13:28	04/08/13 17:07	1
Acenaphthylene	33	J	48	6.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Anthracene	38		10	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[a]anthracene	190		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[a]pyrene	220		13	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[b]fluoranthene	350		15	7.4	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[g,h,i]perylene	270		24	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Benzo[k]fluoranthene	140		9.7	4.4	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Chrysene	260		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Dibenz(a,h)anthracene	41		24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1

Client Sample ID: CV1039B-CS

Lab Sample ID: 680-88811-24
Date Collected: 03/27/13 12:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	300		24	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Fluorene	20	J	24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Indeno[1,2,3-cd]pyrene	190		24	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
1-Methylnaphthalene	130		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
2-Methylnaphthalene	170		48	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Naphthalene	180		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Phenanthrene	240		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1
Pyrene	290		24	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/04/13 13:28*	*04/08/13 17:07*	*1*

Client Sample ID: CV1040A-CS

Lab Sample ID: 680-88811-25
Date Collected: 03/27/13 12:55
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 70.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	95	J	140	28	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Acenaphthylene	64		56	7.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Anthracene	250		12	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[a]anthracene	910		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[a]pyrene	790		15	7.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[b]fluoranthene	1300		17	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[g,h,i]perylene	600		28	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Benzo[k]fluoranthene	610		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Chrysene	980		13	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Dibenz(a,h)anthracene	190		28	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Fluoranthene	1800		28	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Fluorene	110		28	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Indeno[1,2,3-cd]pyrene	560		28	10	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
1-Methylnaphthalene	240		56	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
2-Methylnaphthalene	230		56	10	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Naphthalene	210		56	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Phenanthrene	1200		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1
Pyrene	1500		28	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/04/13 13:28*	*04/08/13 17:25*	*1*

Client Sample ID: CV1042A-CS

Lab Sample ID: 680-88811-26
Date Collected: 03/27/13 13:12
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	40	J	130	27	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Acenaphthylene	53		53	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Anthracene	100		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[a]anthracene	480		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1

Client Sample ID: CV1042A-CS

Lab Sample ID: 680-88811-26

Date Collected: 03/27/13 13:12
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	400		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[b]fluoranthene	610		16	8.1	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[g,h,i]perylene	260		27	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Benzo[k]fluoranthene	270		11	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Chrysene	510		12	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Dibenz(a,h)anthracene	60		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Fluoranthene	850		27	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Fluorene	33		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Indeno[1,2,3-cd]pyrene	240		27	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
1-Methylnaphthalene	540		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
2-Methylnaphthalene	800		53	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Naphthalene	630		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Phenanthrene	650		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1
Pyrene	700		27	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*04/04/13 13:28*	*04/08/13 17:44*	*1*

Client Sample ID: CV1366A-CS

Lab Sample ID: 680-88811-27

Date Collected: 03/27/13 13:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Acenaphthylene	22	J	53	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Anthracene	32		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[a]anthracene	210		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[a]pyrene	180		14	6.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[b]fluoranthene	310		16	8.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[g,h,i]perylene	150		26	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Benzo[k]fluoranthene	120		11	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Chrysene	230		12	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Dibenz(a,h)an hracene	26	U	26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Fluoranthene	310		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Fluorene	17	J	26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Indeno[1,2,3-cd]pyrene	120		26	9.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
1-Methylnaphthalene	46	J	53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
2-Methylnaphthalene	65		53	9.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Naphthalene	95		53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Phenanthrene	160		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1
Pyrene	300		26	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:02*	*1*

Client Sample ID: CV1366B-CS

Lab Sample ID: 680-88811-28

Date Collected: 03/27/13 13:20
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35	J	130	25	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Acenaphthylene	32	J	51	6.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Anthracene	70		11	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[a]anthracene	300		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[a]pyrene	260		13	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[b]fluoranthene	430		16	7.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[g,h,i]perylene	190		25	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Benzo[k]fluoranthene	190		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Chrysene	310		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Dibenz(a,h)anthracene	57		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Fluoranthene	470		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Fluorene	48		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Indeno[1,2,3-cd]pyrene	170		25	9.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
1-Methylnaphthalene	96		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
2-Methylnaphthalene	150		51	9.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Naphthalene	110		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Phenanthrene	350		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1
Pyrene	440		25	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:20*	*1*

Client Sample ID: CV1043A-CS

Lab Sample ID: 680-88811-29

Date Collected: 03/27/13 14:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Acenaphthylene	21	J	51	6.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Anthracene	30		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[a]anthracene	180		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[a]pyrene	140		13	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[b]fluoranthene	240		16	7.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[g,h,i]perylene	130		26	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Benzo[k]fluoranthene	110		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Chrysene	280		12	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Dibenz(a,h)anthracene	42		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Fluoranthene	220		26	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Fluorene	10	J	26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Indeno[1,2,3-cd]pyrene	80		26	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
1-Methylnaphthalene	320		51	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
2-Methylnaphthalene	180		51	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Naphthalene	130		51	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Phenanthrene	270		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1
Pyrene	240		26	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:38*	*1*

Client Sample ID: CV1043B-CS

Lab Sample ID: 680-88811-30

Date Collected: 03/27/13 14:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Acenaphthylene	**43**	**J**	53	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Anthracene	**66**		11	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[a]anthracene	**380**		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[a]pyrene	**340**		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[b]fluoranthene	**560**		16	8.0	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[g,h,i]perylene	**230**		26	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Benzo[k]fluoranthene	**260**		11	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Chrysene	**450**		12	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Dibenz(a,h)anthracene	**80**		26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Fluoranthene	**530**		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Fluorene	**17**	**J**	26	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Indeno[1,2,3-cd]pyrene	**230**		26	9.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
1-Methylnaphthalene	**170**		53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
2-Methylnaphthalene	**140**		53	9.4	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Naphthalene	**93**		53	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Phenanthrene	**450**		11	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1
Pyrene	**580**		26	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*04/04/13 13:28*	*04/08/13 18:57*	*1*

Client Sample ID: CV1049A-CS

Lab Sample ID: 680-88811-31

Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**	**J**	120	25	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Acenaphthylene	**21**	**J**	50	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Anthracene	**61**		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[a]anthracene	**1400**		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[a]pyrene	**2200**		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[g,h,i]perylene	**1800**		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Benzo[k]fluoranthene	**1400**		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Chrysene	**1800**		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Dibenz(a,h)anthracene	**740**		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Fluoranthene	**1000**		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Fluorene	**28**		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Indeno[1,2,3-cd]pyrene	**1700**		25	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
1-Methylnaphthalene	**130**		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
2-Methylnaphthalene	**140**		50	8.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Naphthalene	**90**		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Phenanthrene	**460**		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1
Pyrene	**1200**		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/04/13 13:28*	*04/08/13 19:15*	*1*

Client Sample ID: CV1049A-CS

Lab Sample ID: 680-88811-31
Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3100		61	30	ug/Kg	☼	04/04/13 13:28	04/10/13 14:37	4

Client Sample ID: CV1049B-CS

Lab Sample ID: 680-88811-32
Date Collected: 03/27/13 14:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	J	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Acenaphthylene	470		52	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Anthracene	330		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[a]anthracene	2200		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[a]pyrene	2200		13	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[b]fluoranthene	4100		16	7.9	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[g,h,i]perylene	1300		26	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Benzo[k]fluoranthene	1700		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Chrysene	3100		12	5.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Dibenz(a,h)anthracene	530		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Fluorene	170		26	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Indeno[1,2,3-cd]pyrene	1400		26	9.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
1-Methylnaphthalene	160		52	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
2-Methylnaphthalene	160		52	9.2	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1
Naphthalene	170		52	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*04/04/13 13:28*	*04/08/13 19:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5200		100	21	ug/Kg	☼	04/04/13 13:28	04/10/13 14:55	4
Phenanthrene	4200		41	20	ug/Kg	☼	04/04/13 13:28	04/10/13 14:55	4
Pyrene	3800		100	19	ug/Kg	☼	04/04/13 13:28	04/10/13 14:55	4

Client Sample ID: CV1042B-CS

Lab Sample ID: 680-88811-33
Date Collected: 03/27/13 13:18
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130		120	24	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Acenaphthylene	77		48	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Anthracene	240		10	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[a]anthracene	840		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[a]pyrene	750		13	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[b]fluoranthene	1100		15	7.4	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[g,h,i]perylene	410		24	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Benzo[k]fluoranthene	540		9.7	4.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Chrysene	880		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Dibenz(a,h)anthracene	140		24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Fluoranthene	1500		24	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1

Client Sample ID: CV1042B-CS

Lab Sample ID: 680-88811-33
Date Collected: 03/27/13 13:18
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	120		24	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Indeno[1,2,3-cd]pyrene	480		24	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
1-Methylnaphthalene	88		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
2-Methylnaphthalene	110		48	8.6	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Naphthalene	190		48	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Phenanthrene	960		9.7	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1
Pyrene	1300		24	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/04/13 13:28*	*04/08/13 19:52*	*1*

Client Sample ID: CV1042C-CS

Lab Sample ID: 680-88811-34
Date Collected: 03/27/13 13:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	43	J	130	27	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Acenaphthylene	79		53	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Anthracene	150		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[a]anthracene	670		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[a]pyrene	630		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[b]fluoranthene	910		16	8.1	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[g,h,i]perylene	430		27	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Benzo[k]fluoranthene	470		11	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Chrysene	780		12	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Dibenz(a,h)anthracene	60		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Fluoranthene	1200		27	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Fluorene	50		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Indeno[1,2,3-cd]pyrene	390		27	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
1-Methylnaphthalene	240		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
2-Methylnaphthalene	290		53	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Naphthalene	170		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Phenanthrene	780		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1
Pyrene	1100		27	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/04/13 13:28*	*04/08/13 20:10*	*1*

Client Sample ID: CV1047A-CS

Lab Sample ID: 680-88811-35
Date Collected: 03/27/13 14:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Anthracene	37	J	42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[a]anthracene	270		40	20	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[a]pyrene	310		52	26	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4

Client Sample ID: CV1047A-CS

Lab Sample ID: 680-88811-35

Date Collected: 03/27/13 14:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	460		61	31	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[g,h,i]perylene	290		100	22	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Benzo[k]fluoranthene	150		40	18	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Chrysene	400		45	23	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Dibenz(a,h)anthracene	130		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Fluoranthene	250		100	20	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Fluorene	25	J	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
2-Methylnaphthalene	180	J	200	36	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Naphthalene	120	J	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Phenanthrene	210		40	20	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4
Pyrene	280		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 15:31	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*30 - 130*	*04/08/13 06:37*	*04/09/13 15:31*	*4*

Client Sample ID: CV1047B-CS

Lab Sample ID: 680-88811-36

Date Collected: 03/27/13 14:59
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Acenaphthylene	26	J	50	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Anthracene	31		11	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[a]anthracene	280		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[a]pyrene	260		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[b]fluoranthene	490		15	7.7	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[g,h,i]perylene	220		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Benzo[k]fluoranthene	230		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Chrysene	340		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Dibenz(a,h)anthracene	87		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Fluoranthene	290		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Fluorene	19	J	25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Indeno[1,2,3-cd]pyrene	190		25	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
1-Methylnaphthalene	110		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
2-Methylnaphthalene	140		50	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Naphthalene	100		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Phenanthrene	190		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1
Pyrene	310		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/04/13 13:28*	*04/08/13 20:28*	*1*

Client Sample ID: CV1050A-CS

Lab Sample ID: 680-88811-37

Date Collected: 03/27/13 14:30
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**	**J**	110	23	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Acenaphthylene	46	U	46	5.7	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Anthracene	**85**		9.6	4.8	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Benzo[a]anthracene	**2300**		9.2	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Benzo[k]fluoranthene	**3300**		9.2	4.1	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Chrysene	**3400**		10	5.2	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Dibenz(a,h)anthracene	**1700**		23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Fluoranthene	**1800**		23	4.6	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Fluorene	**34**		23	4.7	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Indeno[1,2,3-cd]pyrene	**3800**		23	8.1	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
1-Methylnaphthalene	**66**		46	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
2-Methylnaphthalene	**76**		46	8.1	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Naphthalene	**70**		46	5.0	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Phenanthrene	**550**		9.2	4.5	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1
Pyrene	**1900**		23	4.2	ug/Kg	☼	04/08/13 06:37	04/09/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/08/13 06:37*	*04/09/13 15:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**3600**		48	24	ug/Kg	☼	04/08/13 06:37	04/10/13 15:42	4
Benzo[b]fluoranthene	**7300**		56	28	ug/Kg	☼	04/08/13 06:37	04/10/13 15:42	4
Benzo[g,h,i]perylene	**4200**		92	20	ug/Kg	☼	04/08/13 06:37	04/10/13 15:42	4

Client Sample ID: CV1050B-CS

Lab Sample ID: 680-88811-38

Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Acenaphthylene	**57**	**J**	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Anthracene	**100**		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[a]anthracene	**1600**		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[a]pyrene	**2400**		51	26	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[b]fluoranthene	**3600**		60	30	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[g,h,i]perylene	**2300**		99	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Benzo[k]fluoranthene	**1300**		40	18	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Chrysene	**1900**		45	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Dibenz(a,h)anthracene	**860**		99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Fluoranthene	**1100**		99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Fluorene	**57**	**J**	99	20	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Indeno[1,2,3-cd]pyrene	**2200**		99	35	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
1-Methylnaphthalene	**96**	**J**	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
2-Methylnaphthalene	**130**	**J**	200	35	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Naphthalene	**160**	**J**	200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Phenanthrene	**520**		40	19	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4
Pyrene	**1300**		99	18	ug/Kg	☼	04/08/13 06:37	04/09/13 16:08	4

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1050B-CS

Lab Sample ID: 680-88811-38
Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	103		30 - 130	04/08/13 06:37	04/09/13 16:08	4

Client Sample ID: CV1119B-CS

Lab Sample ID: 680-88811-45
Date Collected: 03/28/13 09:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	93	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Acenaphthylene	**450**		190	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Anthracene	**430**		39	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[a]anthracene	**1100**		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[a]pyrene	**790**		48	24	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[b]fluoranthene	**1300**		57	28	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[g,h,i]perylene	**570**		93	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Benzo[k]fluoranthene	**770**		37	17	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Chrysene	**1300**		42	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Dibenz(a,h)anthracene	**220**		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Fluoranthene	**2800**		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Fluorene	**360**		93	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Indeno[1,2,3-cd]pyrene	**570**		93	33	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
1-Methylnaphthalene	**430**		190	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
2-Methylnaphthalene	**370**		190	33	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Naphthalene	**470**		190	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Phenanthrene	**2700**		37	18	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4
Pyrene	**2500**		93	17	ug/Kg	☼	04/08/13 06:37	04/09/13 17:21	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		30 - 130	04/08/13 06:37	04/09/13 17:21	4

Client Sample ID: CV1119C-GS

Lab Sample ID: 680-88811-46
Date Collected: 03/28/13 09:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.6

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	☼	04/08/13 06:37	04/09/13 17:39	4
Acenaphthylene	**140**	**J**	200	25	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Anthracene	**150**		43	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[a]anthracene	**850**		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[a]pyrene	**650**		53	26	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[b]fluoranthene	**1300**		62	31	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[g,h,i]perylene	**530**		100	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Benzo[k]fluoranthene	**340**		41	18	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Chrysene	**1000**		46	23	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Dibenz(a,h)anthracene	**140**		100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Fluoranthene	**1100**		100	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Fluorene	**69**	**J**	100	21	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Indeno[1,2,3-cd]pyrene	**420**		100	36	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
1-Methylnaphthalene	**240**		200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
2-Methylnaphthalene	**210**		200	36	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1119C-GS
Date Collected: 03/28/13 09:35
Date Received: 03/29/13 09:45

Lab Sample ID: 680-88811-46
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	250		200	22	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Phenanthrene	500		41	20	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4
Pyrene	1000		100	19	ug/Kg	☼	04/08/13 06:37	04/09/13 17:39	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*04/08/13 06:37*	*04/09/13 17:39*	*4*

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

Lab Sample ID: MB 660-136127/1-A
Matrix: Solid
Analysis Batch: 136271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Fluorene	20	U	20	4.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Naphthalene	40	U	40	4.4	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Pyrene	20	U	20	3.7	ug/Kg		04/04/13 13:28	04/08/13 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*30 - 130*	*04/04/13 13:28*	*04/08/13 13:45*	*1*

Lab Sample ID: LCS 660-136127/2-A
Matrix: Solid
Analysis Batch: 136271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	662	491		ug/Kg		74	39 - 130
Acenaphthylene	662	536		ug/Kg		81	38 - 130
Anthracene	662	522		ug/Kg		79	37 - 130
Benzo[a]anthracene	662	520		ug/Kg		79	40 - 130
Benzo[a]pyrene	662	470		ug/Kg		71	49 - 130
Benzo[b]fluoranthene	662	532		ug/Kg		80	37 - 130
Benzo[g,h,i]perylene	662	514		ug/Kg		78	32 - 130
Benzo[k]fluoranthene	662	533		ug/Kg		81	32 - 130
Chrysene	662	502		ug/Kg		76	41 - 130
Dibenz(a,h)an hracene	662	593		ug/Kg		90	27 - 130
Fluoranthene	662	512		ug/Kg		77	40 - 130
Fluorene	662	537		ug/Kg		81	40 - 130
Indeno[1,2,3-cd]pyrene	662	509		ug/Kg		77	30 - 130
1-Methylnaphthalene	662	579		ug/Kg		88	31 - 130
2-Methylnaphthalene	662	486		ug/Kg		73	33 - 130
Naphthalene	662	499		ug/Kg		75	36 - 130
Phenanthrene	662	525		ug/Kg		79	42 - 130
Pyrene	662	515		ug/Kg		78	44 - 130

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

Lab Sample ID: LCS 660-136127/2-A
Matrix: Solid
Analysis Batch: 136271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	78		30 - 130

Lab Sample ID: 680-88811-22 MS
Matrix: Solid
Analysis Batch: 136271

Client Sample ID: CV1039A-CS
Prep Type: Total/NA
Prep Batch: 136127

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	150	J	1070	954		ug/Kg	☼	75	39 - 130
Acenaphthylene	120		1070	864		ug/Kg	☼	70	38 - 130
Anthracene	2100	F	1070	1320	F	ug/Kg	☼	-72	37 - 130
Benzo[a]anthracene	4800	4	1070	2210	4	ug/Kg	☼	-242	40 - 130
Benzo[a]pyrene	4200	F	1070	1920	F	ug/Kg	☼	-215	49 - 130
Benzo[g,h,i]perylene	2900	F	1070	1420	F	ug/Kg	☼	-139	32 - 130
Benzo[k]fluoranthene	2200	F	1070	1520	F	ug/Kg	☼	-68	32 - 130
Chrysene	4800	4	1070	2050	4	ug/Kg	☼	-256	41 - 130
Dibenz(a,h)an hracene	940	F	1070	945	F	ug/Kg	☼	0.9	27 - 130
Fluorene	250		1070	1030		ug/Kg	☼	73	40 - 130
Indeno[1,2,3-cd]pyrene	2700	F	1070	1530	F	ug/Kg	☼	-106	30 - 130
1-Methylnaphthalene	170		1070	1090		ug/Kg	☼	87	31 - 130
2-Methylnaphthalene	170	F	1070	1190		ug/Kg	☼	96	33 - 130
Naphthalene	260	F	1070	1190		ug/Kg	☼	88	36 - 130
Phenanthrene	4500	4	1070	3360	4	ug/Kg	☼	-106	42 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	75		30 - 130

Lab Sample ID: 680-88811-22 MSD
Matrix: Solid
Analysis Batch: 136271

Client Sample ID: CV1039A-CS
Prep Type: Total/NA
Prep Batch: 136127

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	150	J	1070	786		ug/Kg	☼	60	39 - 130	19	40
Acenaphthylene	120		1070	755		ug/Kg	☼	60	38 - 130	14	40
Anthracene	2100	F	1070	1090	F	ug/Kg	☼	-93	37 - 130	19	40
Benzo[a]anthracene	4800	4	1070	1890	4	ug/Kg	☼	-272	40 - 130	16	40
Benzo[a]pyrene	4200	F	1070	1620	F	ug/Kg	☼	-243	49 - 130	17	40
Benzo[g,h,i]perylene	2900	F	1070	1240	F	ug/Kg	☼	-155	32 - 130	13	40
Benzo[k]fluoranthene	2200	F	1070	1310	F	ug/Kg	☼	-87	32 - 130	15	40
Chrysene	4800	4	1070	1840	4	ug/Kg	☼	-276	41 - 130	11	40
Dibenz(a,h)an hracene	940	F	1070	941	F	ug/Kg	☼	0.6	27 - 130	0	40
Fluorene	250		1070	827		ug/Kg	☼	54	40 - 130	22	40
Indeno[1,2,3-cd]pyrene	2700	F	1070	1340	F	ug/Kg	☼	-124	30 - 130	13	40
1-Methylnaphthalene	170		1070	829		ug/Kg	☼	62	31 - 130	27	40
2-Methylnaphthalene	170	F	1070	779	F	ug/Kg	☼	57	33 - 130	42	40
Naphthalene	260	F	1070	785	F	ug/Kg	☼	50	36 - 130	41	40
Phenanthrene	4500	4	1070	2480	4	ug/Kg	☼	-189	42 - 130	30	40

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

Lab Sample ID: 680-88811-22 MSD
Matrix: Solid
Analysis Batch: 136271

Client Sample ID: CV1039A-CS
Prep Type: Total/NA
Prep Batch: 136127

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*74*		*30 - 130*

Lab Sample ID: MB 660-136189/1-A
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Fluorene	20	U	20	4.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Naphthalene	40	U	40	4.4	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/08/13 06:37	04/09/13 14:55	1
Pyrene	20	U	20	3.7	ug/Kg		04/08/13 06:37	04/09/13 14:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*77*		*30 - 130*	*04/08/13 06:37*	*04/09/13 14:55*	*1*

Lab Sample ID: LCS 660-136189/2-A
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	492		ug/Kg		75	39 - 130
Acenaphthylene	660	527		ug/Kg		80	38 - 130
Anthracene	660	503		ug/Kg		76	37 - 130
Benzo[a]anthracene	660	514		ug/Kg		78	40 - 130
Benzo[a]pyrene	660	457		ug/Kg		69	49 - 130
Benzo[b]fluoranthene	660	553		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	660	471		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	660	486		ug/Kg		74	32 - 130
Chrysene	660	527		ug/Kg		80	41 - 130
Dibenz(a,h)an hracene	660	515		ug/Kg		78	27 - 130
Fluoranthene	660	556		ug/Kg		84	40 - 130
Fluorene	660	512		ug/Kg		78	40 - 130
Indeno[1,2,3-cd]pyrene	660	481		ug/Kg		73	30 - 130
1-Methylnaphthalene	660	498		ug/Kg		75	31 - 130

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

Lab Sample ID: LCS 660-136189/2-A
Matrix: Solid
Analysis Batch: 136263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	660	505		ug/Kg		77	33 - 130
Naphthalene	660	482		ug/Kg		73	36 - 130
Phenanthrene	660	532		ug/Kg		81	42 - 130
Pyrene	660	531		ug/Kg		81	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*30 - 130*

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

Lab Sample ID: 680-88811-22 MS
Matrix: Solid
Analysis Batch: 136269

Client Sample ID: CV1039A-CS
Prep Type: Total/NA
Prep Batch: 136127

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene - DL	5200	4	1070	2840	4	ug/Kg	☼	-217	37 - 130
Fluoranthene - DL	7300	4	1070	3780	4	ug/Kg	☼	-334	40 - 130
Pyrene - DL	6000	4	1070	3530	4	ug/Kg	☼	-236	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl - DL	*65*		*30 - 130*

Lab Sample ID: 680-88811-22 MSD
Matrix: Solid
Analysis Batch: 136269

Client Sample ID: CV1039A-CS
Prep Type: Total/NA
Prep Batch: 136127

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[b]fluoranthene - DL	5200	4	1070	2510	4	ug/Kg	☼	-248	37 - 130	12	40
Fluoranthene - DL	7300	4	1070	2770	4	ug/Kg	☼	-429	40 - 130	31	40
Pyrene - DL	6000	4	1070	2820	4	ug/Kg	☼	-302	44 - 130	22	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl - DL	*61*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-21	CV1036B-CS	Total/NA	Solid	3546	
680-88811-22 - DL	CV1039A-CS	Total/NA	Solid	3546	
680-88811-22	CV1039A-CS	Total/NA	Solid	3546	
680-88811-22 MS - DL	CV1039A-CS	Total/NA	Solid	3546	
680-88811-22 MS	CV1039A-CS	Total/NA	Solid	3546	
680-88811-22 MSD - DL	CV1039A-CS	Total/NA	Solid	3546	
680-88811-22 MSD	CV1039A-CS	Total/NA	Solid	3546	
680-88811-23	CV1039A-CSD	Total/NA	Solid	3546	
680-88811-24	CV1039B-CS	Total/NA	Solid	3546	
680-88811-25	CV1040A-CS	Total/NA	Solid	3546	
680-88811-26	CV1042A-CS	Total/NA	Solid	3546	
680-88811-27	CV1366A-CS	Total/NA	Solid	3546	
680-88811-28	CV1366B-CS	Total/NA	Solid	3546	
680-88811-29	CV1043A-CS	Total/NA	Solid	3546	
680-88811-30	CV1043B-CS	Total/NA	Solid	3546	
680-88811-31	CV1049A-CS	Total/NA	Solid	3546	
680-88811-31 - DL	CV1049A-CS	Total/NA	Solid	3546	
680-88811-32	CV1049B-CS	Total/NA	Solid	3546	
680-88811-32 - DL	CV1049B-CS	Total/NA	Solid	3546	
680-88811-33	CV1042B-CS	Total/NA	Solid	3546	
680-88811-34	CV1042C-CS	Total/NA	Solid	3546	
680-88811-36	CV1047B-CS	Total/NA	Solid	3546	
LCS 660-136127/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136127/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-35	CV1047A-CS	Total/NA	Solid	3546	
680-88811-37	CV1050A-CS	Total/NA	Solid	3546	
680-88811-37 - DL	CV1050A-CS	Total/NA	Solid	3546	
680-88811-38	CV1050B-CS	Total/NA	Solid	3546	
680-88811-45	CV1119B-CS	Total/NA	Solid	3546	
680-88811-46	CV1119C-GS	Total/NA	Solid	3546	
LCS 660-136189/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136189/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-35	CV1047A-CS	Total/NA	Solid	8270C LL	136189
680-88811-37	CV1050A-CS	Total/NA	Solid	8270C LL	136189
680-88811-38	CV1050B-CS	Total/NA	Solid	8270C LL	136189
680-88811-45	CV1119B-CS	Total/NA	Solid	8270C LL	136189
680-88811-46	CV1119C-GS	Total/NA	Solid	8270C LL	136189
LCS 660-136189/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136189
MB 660-136189/1-A	Method Blank	Total/NA	Solid	8270C LL	136189

Analysis Batch: 136269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-22 - DL	CV1039A-CS	Total/NA	Solid	8270C LL	136127
680-88811-22 MS - DL	CV1039A-CS	Total/NA	Solid	8270C LL	136127
680-88811-22 MSD - DL	CV1039A-CS	Total/NA	Solid	8270C LL	136127

GC/MS Semi VOA (Continued)

Analysis Batch: 136271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-21	CV1036B-CS	Total/NA	Solid	8270C LL	136127
680-88811-22	CV1039A-CS	Total/NA	Solid	8270C LL	136127
680-88811-22 MS	CV1039A-CS	Total/NA	Solid	8270C LL	136127
680-88811-22 MSD	CV1039A-CS	Total/NA	Solid	8270C LL	136127
680-88811-23	CV1039A-CSD	Total/NA	Solid	8270C LL	136127
680-88811-24	CV1039B-CS	Total/NA	Solid	8270C LL	136127
680-88811-25	CV1040A-CS	Total/NA	Solid	8270C LL	136127
680-88811-26	CV1042A-CS	Total/NA	Solid	8270C LL	136127
680-88811-27	CV1366A-CS	Total/NA	Solid	8270C LL	136127
680-88811-28	CV1366B-CS	Total/NA	Solid	8270C LL	136127
680-88811-29	CV1043A-CS	Total/NA	Solid	8270C LL	136127
680-88811-30	CV1043B-CS	Total/NA	Solid	8270C LL	136127
680-88811-31	CV1049A-CS	Total/NA	Solid	8270C LL	136127
680-88811-32	CV1049B-CS	Total/NA	Solid	8270C LL	136127
680-88811-33	CV1042B-CS	Total/NA	Solid	8270C LL	136127
680-88811-34	CV1042C-CS	Total/NA	Solid	8270C LL	136127
680-88811-36	CV1047B-CS	Total/NA	Solid	8270C LL	136127
LCS 660-136127/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136127
MB 660-136127/1-A	Method Blank	Total/NA	Solid	8270C LL	136127

Analysis Batch: 136309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-31 - DL	CV1049A-CS	Total/NA	Solid	8270C LL	136127
680-88811-32 - DL	CV1049B-CS	Total/NA	Solid	8270C LL	136127
680-88811-37 - DL	CV1050A-CS	Total/NA	Solid	8270C LL	136189

General Chemistry

Analysis Batch: 135961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-22	CV1039A-CS	Total/NA	Solid	Moisture	
680-88811-22 MS	CV1039A-CS	Total/NA	Solid	Moisture	
680-88811-22 MSD	CV1039A-CS	Total/NA	Solid	Moisture	

Analysis Batch: 135964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-23	CV1039A-CSD	Total/NA	Solid	Moisture	
680-88811-30	CV1043B-CS	Total/NA	Solid	Moisture	
680-88811-31	CV1049A-CS	Total/NA	Solid	Moisture	
680-88811-34	CV1042C-CS	Total/NA	Solid	Moisture	
680-88811-35	CV1047A-CS	Total/NA	Solid	Moisture	
680-88811-45	CV1119B-CS	Total/NA	Solid	Moisture	

Analysis Batch: 135977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-21	CV1036B-CS	Total/NA	Solid	Moisture	
680-88811-24	CV1039B-CS	Total/NA	Solid	Moisture	
680-88811-25	CV1040A-CS	Total/NA	Solid	Moisture	
680-88811-26	CV1042A-CS	Total/NA	Solid	Moisture	
680-88811-27	CV1366A-CS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 135977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-28	CV1366B-CS	Total/NA	Solid	Moisture	
680-88811-32	CV1049B-CS	Total/NA	Solid	Moisture	
680-88811-36	CV1047B-CS	Total/NA	Solid	Moisture	
680-88811-37	CV1050A-CS	Total/NA	Solid	Moisture	
680-88811-38	CV1050B-CS	Total/NA	Solid	Moisture	
680-88811-46	CV1119C-GS	Total/NA	Solid	Moisture	

Analysis Batch: 135992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-29	CV1043A-CS	Total/NA	Solid	Moisture	
680-88811-33	CV1042B-CS	Total/NA	Solid	Moisture	
LCS 660-135992/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135992/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Client Sample ID: CV1036B-CS

Lab Sample ID: 680-88811-21
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 16:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1039A-CS

Lab Sample ID: 680-88811-22
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136269	04/09/13 15:35	SCC	TAL TAM
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 14:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

Client Sample ID: CV1039A-CSD

Lab Sample ID: 680-88811-23
Date Collected: 03/27/13 12:40
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 16:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1039B-CS

Lab Sample ID: 680-88811-24
Date Collected: 03/27/13 12:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 17:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1040A-CS

Lab Sample ID: 680-88811-25
Date Collected: 03/27/13 12:55
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 17:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1042A-CS

Lab Sample ID: 680-88811-26
Date Collected: 03/27/13 13:12
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 17:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1366A-CS

Lab Sample ID: 680-88811-27
Date Collected: 03/27/13 13:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 18:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1366B-CS

Lab Sample ID: 680-88811-28
Date Collected: 03/27/13 13:20
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 18:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1043A-CS

Lab Sample ID: 680-88811-29
Date Collected: 03/27/13 14:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 18:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135992	04/01/13 12:19	AG	TAL TAM

Client Sample ID: CV1043B-CS

Lab Sample ID: 680-88811-30
Date Collected: 03/27/13 14:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 18:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1049A-CS

Lab Sample ID: 680-88811-31
Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 19:15	SCC	TAL TAM
Total/NA	Prep	3546	DL		136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136309	04/10/13 14:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1049B-CS

Lab Sample ID: 680-88811-32
Date Collected: 03/27/13 14:15
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 19:33	SCC	TAL TAM
Total/NA	Prep	3546	DL		136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136309	04/10/13 14:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1042B-CS

Lab Sample ID: 680-88811-33
Date Collected: 03/27/13 13:18
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 19:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135992	04/01/13 12:44	AG	TAL TAM

Client Sample ID: CV1042C-CS

Lab Sample ID: 680-88811-34
Date Collected: 03/27/13 13:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 20:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1047A-CS

Lab Sample ID: 680-88811-35
Date Collected: 03/27/13 14:50
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 15:31	SCC	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1047A-CS

Lab Sample ID: 680-88811-35
Date Collected: 03/27/13 14:50
Matrix: Solid
Date Received: 03/29/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Client Sample ID: CV1047B-CS

Lab Sample ID: 680-88811-36
Date Collected: 03/27/13 14:59
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 20:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1050A-CS

Lab Sample ID: 680-88811-37
Date Collected: 03/27/13 14:30
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 15:50	SCC	TAL TAM
Total/NA	Prep	3546	DL		136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	136309	04/10/13 15:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1050B-CS

Lab Sample ID: 680-88811-38
Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 16:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Client Sample ID: CV1119B-CS

Lab Sample ID: 680-88811-45
Date Collected: 03/28/13 09:25
Matrix: Solid
Date Received: 03/29/13 09:45
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 17:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

Client Sample ID: CV1119C-GS
Date Collected: 03/28/13 09:35
Date Received: 03/29/13 09:45

Lab Sample ID: 680-88811-46
Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136189	04/08/13 06:37	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 17:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 63533

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT FAX

(b) (6)

CLIENT NAME | CLIENT E-MAIL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	REQUIRED ANALYSIS: Metals - RCRA	REMARKS
								PRESERVATIVE		NUMBER OF CONTAINERS SUBMITTED
3-27-13	0945	CV0013 A-CS	C		X			X		
	0955	CV0013 B-CS	C		X			X		
	0958	CV0013 C-CS	C		X			X		
	1000	CV0013 DC-CSD	C		X			X		
	1007	CV0013 D-CS	C		X			X		
	1015	CV0013 E-CS	C		X			X		
	0950	CV0013 AB-GS	G		X			X		
	1235	CV1036A-CS	C		X			X		
	1240	CV1036B-CS	C		X			X		
	1240	CV1039A-CS	C		X			X	X	
	1240	CV1039A-CSD	C		X			X	X	
	1250	CV1039B-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Anglin	3-28-13	12:00						
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]	03/29/13	0945	YES ○ NO ○		680-98811	3.6 C

TAL8240-680 (1008)

Page 30 of 37

4/10/2013

Serial Number 63534

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200S148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT FAX

(b) (6)

CLIENT NAME

CLIENT E-MAIL

CLIENT ADDRESS (b) (6) (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 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	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 12 PAH	Metals - RCRA 8	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-27-13	1255	CV1040A-CS	C		X			X				
	1312	CV1042A-CS	C		X			X				
	1310	CV1366A-CS	C		X			X	X			
	1320	CV1366B-CS	C		X			X				
	1415	CV1043A-CS	C		X			X				
	1425	CV1043B-CS	C		X			X	X			
	1410	CV1049A-CS	C		X			X				
	1415	CV1049B-CS	C		X			X				
	1318	CV1042B-CS	C		X			X				
	1325	CV1042C-CS	C		X			X	X			
	1450	CV1047A-CS	C		X			X				
	1459	CV1047B-CS	C		X			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	3-28-13	12:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/29/13	0945	YES ○ NO ○		680-98811	3.6°C

TAL8240-680 (1008)

Page 31 of 37

2

4/10/2013

Serial Number 63535

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200548-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

CLIENT FAX

CLIENT NAME (b) (6)

CLIENT E-MAIL

CLIENT ADDRESS (b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 4 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	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	Metals - RCRA 8	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								PRESERVATIVE			
3-27-B	1430	CV1050A-CS	C		X			X			
	1435	CV1050B-CS	C		X			X			
	1240	CV1039A-CS (sieve)	C		X			~~X~~	X		
	1240	CV1039A-CSD (Sieve)	C		X			~~X~~	X		
	1325	CV1042C-CS (sieve)	C		X				X		
	1425	CV1043B-CS (sieve)	C		X				X		
	1310	CV1366A-CS (sieve)	C		X				X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Ben Anglin	3-28-13	12:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/24/13	0945	YES ○ NO ○		680-88811	3.6°

TAL8240-680 (1008)

Page 32 of 37

2

4/10/2013

Serial Number 63536

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
(b) (6)		

CLIENT NAME	CLIENT E-MAIL
(b) (6)	

CLIENT ADDRESS (b) (6)

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	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	Metals 8 RCRA	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-28-13	0915	CV1119 A-CS	C		X			X			X	
	0925	CV1119 B-CS	C		X			X	X			
	0935	CV1119 C-GS	G		X			X				
	0935	CV1119 C-GSD	G		X			X				
	0940	CV1119 D-GS	G		X			X				
	1955	CV1120 A-CS	C		X			X				
	1005	CV1120 B-CS	C		X			X				
	0845	CV1121 A-CS	C		X			X				
	0850	CV1121 B-CS	C		X			X				
	0859	CV1121 C-CS	C		X			X				
	1050	CV1122 A-CS	C		X			X				
	1100	CV1122B-CS	C		X			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Hayslip	3-28-13	1730						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/29/13	0945	YES ○ NO ○		680-89811	3.8C

TAL8240-680 (1008)

Page 33 of 37

4/10/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
SDG Number: 68088811-2

Login Number: 88811
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-2
SDG Number: 68088811-2

Login Number: 88811
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/30/13 10:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

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	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
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
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
Georgia	State Program	4	905	06-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

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

TestAmerica Job ID: 680-88811-2
SDG: 68088811-2

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
USDA	Federal		P330-11-00177	04-20-14