REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89421-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil and Water	Samples Collected:	04/15/2013
Reviewer:	Karen Marie Trujillo, URS Group	Date:	05/07/2013
Concurrence[2]:	Martha Meyers-Lee, URS Group	Date:	05/13/2013

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 041513-RB-Shovel (680-89421-10).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be	

[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
no, note in DV report.				collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 041513-RB-Shovel (680-89421-10) was collected during the week of 4/15/13. The rinsate blank was analyzed for PAHs under this Test America Job ID.	
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?	✓			CV1082A-CSD (680-89421-3) is a field duplicate of CV1082A-CS (680-89421-2).	
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: BSMC5973 • Initial Calibration: 04/11/2013 • ICV: 04/11/13 @ 14:25 • CCV: 04/18/13 @ 12:01 • CCV: 04/22/13 @ 11:50 • Instrument ID: BSMC5973 • Initial Calibration: 04/24/2013 • ICV: 04/24/13 @ 16:06	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds					
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?	✓			• Soil: o Prep Batch 136731: 680-89421-1 (CV1001A-CS), MS/MSD o Prep Batch 136637: 680-89328-8 (Batch sample), MS/MSD. Lab sample 680-89328-8 is a project-specific sample (HP0202C-CS-SP) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89328-1. • Water, Prep Batch 136534: 640-42984-1 (Batch Sample), MS only due to limited sample volume. A laboratory duplicate analysis was conducted on batch sample 680-89275-1 in lieu of a MSD analysis.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively		✓		CV1001A-CS (680-89421-1): • Fluoranthene @ 107 and 139 %R (40-130). Qualification of data not required[3]. • Phenanthrene @ 110 and 139 %R (42-130). Qualification of data not required[3].	

[3] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Was a laboratory duplicate analysis conducted?	✓			Water, Prep batch 136534: 680-89275-1 (Batch sample)	
30. Is the laboratory duplicate parent sample a project-specific sample?		✓		680-89275-1 is a project-specific sample (04113-RB-Bowls + Spoons) that was selected by TestAmerica for the PAH laboratory duplicate analysis, and the results were reported under Job ID 680-89275-1	
31. Were laboratory criteria met for precision during the laboratory duplicate analysis? Only QC results for project samples that are reported under this Job ID are evaluated. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result			✓		
32. 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: 680-89421-1
SDG: 68089421-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89421-1	CV1001A-CS	Solid	04/15/13 13:10	04/17/13 08:40
680-89421-2	CV1082A-CS	Solid	04/15/13 12:45	04/17/13 08:40
680-89421-3	CV1082A-CSD	Solid	04/15/13 12:45	04/17/13 08:40
680-89421-4	CV0745A-CS-SP	Solid	04/15/13 13:25	04/17/13 08:40
680-89421-5	CV0745B-CS-SP	Solid	04/15/13 13:45	04/17/13 08:40
680-89421-6	FM0060A-CS-SP	Solid	04/15/13 14:25	04/17/13 08:40
680-89421-7	FM0106A-CS-SP	Solid	04/15/13 15:00	04/17/13 08:40
680-89421-8	FM0106B-CS-SP	Solid	04/15/13 15:15	04/17/13 08:40
680-89421-9	FM0106C-CS-SP	Solid	04/15/13 15:20	04/17/13 08:40
680-89421-10	041513-RB-Shovel	Water	04/15/13 16:00	04/17/13 08:40

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1082A-CS 680-89421-2		RL	CV1082A-CSD 680-89421-3		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	52		52	270	J	50	µg/kg	255	NA	**218**	**102**	**J/UJ-flag, absolute difference > 2x Avg RL**
Anthracene	29		11	150		11	µg/kg	55	NA	**121**	**22**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)anthracene	120		10	1300		10	µg/kg	50	**166**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	100		13	1300		13	µg/kg	65	**171**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	180		16	1900		15	µg/kg	77.5	**165**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	84		26	820		25	µg/kg	127.5	NA	**736**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	58		10	730		10	µg/kg	50	**171**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	130		12	1500		11	µg/kg	57.5	**168**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	88		26	230		25	µg/kg	127.5	NA	**142**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	150		26	3000		25	µg/kg	127.5	**181**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	12	J	26	42	J	25	µg/kg	127.5	NA	30	51	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	110		26	770		25	µg/kg	127.5	NA	**660**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	33	J	52	41		50	µg/kg	255	NA	8	102	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	66		52	84		50	µg/kg	255	NA	18	102	None, absolute difference ≤ 2x Avg RL
Naphthalene	28	J	52	42		50	µg/kg	255	NA	14	102	None, absolute difference ≤ 2x Avg RL
Phenanthrene	100		10	930		10	µg/kg	50	**161**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	130		26	2600		25	µg/kg	127.5	**181**	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
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

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: 680-89421-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89421-1

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

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

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

RECEIPT

The samples were received on 04/17/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1001A-CS (680-89421-1), CV1082A-CS (680-89421-2), CV1082A-CSD (680-89421-3), CV0745A-CS-SP (680-89421-4), CV0745B-CS-SP (680-89421-5), FM0060A-CS-SP (680-89421-6), FM0106A-CS-SP (680-89421-7), FM0106B-CS-SP (680-89421-8) and FM0106C-CS-SP (680-89421-9) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/22/2013 and 04/24/2013.

Samples CV1001A-CS (680-89421-1)[4X], CV0745A-CS-SP (680-89421-4)[4X] and FM0060A-CS-SP (680-89421-6)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

For the MSD of sample 680-89328-8 in batch 660-136698, 1-Methylnaphthalene and 2-Methylnaphthalene recovered outside the recovery criteria. Also, Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene exceeded the rpd limit.

Fluoranthene and Phenanthrene recovered outside of the recovery criteria for the MSD of sample CV1001A-CS (680-89421-1) in batch 660-136792.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 041513-RB-Shovel (680-89421-10) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV1001A-CS

Lab Sample ID: 680-89421-1

Date Collected: 04/15/13 13:10
Matrix: Solid
Date Received: 04/17/13 08:40
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	520	U	520	100	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Anthracene	**160**		43	22	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[a]anthracene	**720**		41	20	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[a]pyrene	**420**		54	27	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[b]fluoranthene	**700**		63	32	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[g,h,i]perylene	**380**		100	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[k]fluoranthene	**130**		41	19	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Chrysene	**480**		47	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Dibenz(a,h)anthracene	**73**	**J**	100	21	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Fluoranthene	**500**	**F**	100	21	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Fluorene	100	U	100	21	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Indeno[1,2,3-cd]pyrene	**420**		100	37	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
1-Methylnaphthalene	**230**		210	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
2-Methylnaphthalene	**470**		210	37	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Naphthalene	**300**		210	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Phenanthrene	**540**	**F**	41	20	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Pyrene	**590**		100	19	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/23/13 10:36*	*04/24/13 17:16*	*4*

Client Sample ID: CV1082A-CS

Lab Sample ID: 680-89421-2

Date Collected: 04/15/13 12:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Acenaphthylene	**52**	**J**	52	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Anthracene	**29**	**J**	11	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[a]anthracene	**120**	**J**	10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[a]pyrene	**100**	**J**	13	6.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[b]fluoranthene	**180**	**J**	16	7.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[g,h,i]perylene	**84**	**J**	26	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[k]fluoranthene	**58**	**J**	10	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Chrysene	**130**	**J**	12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Dibenz(a,h)anthracene	**88**	**J**	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Fluoranthene	**150**	**J**	26	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Fluorene	**12**	**J**	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Indeno[1,2,3-cd]pyrene	**110**	**J**	26	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
1-Methylnaphthalene	**33**	**J**	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
2-Methylnaphthalene	**66**		52	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Naphthalene	**28**	**J**	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Phenanthrene	**100**	**J**	10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Pyrene	**130**	**J**	26	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/19/13 11:14*	*04/22/13 17:28*	*1*

Client Sample ID: CV1082A-CSD

Lab Sample ID: 680-89421-3

Date Collected: 04/15/13 12:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	130	25	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Acenaphthylene	270	J	50	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Anthracene	150	J	11	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[a]anthracene	1300	J	10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[a]pyrene	1300	J	13	6.6	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[b]fluoranthene	1900	J	15	7.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[g,h,i]perylene	820	J	25	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[k]fluoranthene	730	J	10	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Chrysene	1500	J	11	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Dibenz(a,h)anthracene	230	J	25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Fluoranthene	3000	J	25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Fluorene	42		25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Indeno[1,2,3-cd]pyrene	770	J	25	8.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
1-Methylnaphthalene	41	J	50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
2-Methylnaphthalene	84		50	8.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Naphthalene	42	J	50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Phenanthrene	930	J	10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Pyrene	2600	J	25	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/19/13 11:14*	*04/22/13 17:46*	*1*

Client Sample ID: CV0745A-CS-SP

Lab Sample ID: 680-89421-4

Date Collected: 04/15/13 13:25
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Anthracene	44	U	44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[a]anthracene	41	U	41	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[a]pyrene	190		54	27	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[b]fluoranthene	280		63	32	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[g,h,i]perylene	200		100	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[k]fluoranthene	110		41	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Chrysene	200		47	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Fluoranthene	310		100	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Fluorene	34	J	100	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Indeno[1,2,3-cd]pyrene	100	U	100	37	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
1-Methylnaphthalene	86	J	210	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
2-Methylnaphthalene	170	J	210	37	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Naphthalene	84	J	210	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Phenanthrene	180		41	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Pyrene	250		100	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*04/19/13 11:14*	*04/22/13 18:05*	*4*

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

TestAmerica Job ID: 680-89421-1
SDG: 68089421-1

Client Sample ID: CV0745B-CS-SP

Lab Sample ID: 680-89421-5
Date Collected: 04/15/13 13:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 85.5

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	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Acenaphthylene	**15**	**J**	46	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Anthracene	**32**		9.8	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[a]anthracene	**150**		9.3	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[a]pyrene	**140**		12	6.0	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[b]fluoranthene	**330**		14	7.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[g,h,i]perylene	**160**		23	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[k]fluoranthene	**65**		9.3	4.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Chrysene	**200**		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Dibenz(a,h)anthracene	**79**		23	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Fluoranthene	**250**		23	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Fluorene	**21**	**J**	23	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Indeno[1,2,3-cd]pyrene	**130**		23	8.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
1-Methylnaphthalene	**94**		46	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
2-Methylnaphthalene	**180**		46	8.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Naphthalene	**120**		46	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Phenanthrene	**220**		9.3	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Pyrene	**210**		23	4.3	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*04/19/13 11:14*	*04/22/13 18:23*	*1*

Client Sample ID: FM0060A-CS-SP

Lab Sample ID: 680-89421-6
Date Collected: 04/15/13 14:25
Matrix: Solid
Date Received: 04/17/13 08:40
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	490	U	490	98	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Anthracene	**31**	**J**	41	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[a]anthracene	39	U	39	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[a]pyrene	**140**		51	26	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[b]fluoranthene	**230**		60	30	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[g,h,i]perylene	**170**		98	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[k]fluoranthene	**120**		39	18	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Chrysene	**150**		44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Fluoranthene	**250**		98	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Fluorene	98	U	98	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Indeno[1,2,3-cd]pyrene	**390**		98	35	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
1-Methylnaphthalene	**55**	**J**	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
2-Methylnaphthalene	**150**	**J**	200	35	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Naphthalene	**55**	**J**	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Phenanthrene	39	U	39	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Pyrene	**340**		98	18	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*04/19/13 11:14*	*04/22/13 18:41*	*4*

Client Sample ID: FM0106A-CS-SP

Lab Sample ID: 680-89421-7

Date Collected: 04/15/13 15:00
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Acenaphthylene	**19**	**J**	49	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Anthracene	**20**		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[a]anthracene	**68**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[a]pyrene	**76**		13	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[b]fluoranthene	**160**		15	7.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[g,h,i]perylene	**50**		25	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[k]fluoranthene	**58**		9.9	4.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Chrysene	**86**		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Fluoranthene	**69**		25	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Fluorene	**7.7**	**J**	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Indeno[1,2,3-cd]pyrene	**110**		25	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
1-Methylnaphthalene	**19**	**J**	49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
2-Methylnaphthalene	**56**		49	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Naphthalene	**53**		49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Phenanthrene	**59**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Pyrene	**81**		25	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/19/13 11:14*	*04/22/13 19:00*	*1*

Client Sample ID: FM0106B-CS-SP

Lab Sample ID: 680-89421-8

Date Collected: 04/15/13 15:15
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Acenaphthylene	**15**	**J**	51	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Anthracene	**48**		11	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[a]anthracene	**140**		10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[a]pyrene	**130**		13	6.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[b]fluoranthene	**280**		15	7.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[g,h,i]perylene	**120**		25	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[k]fluoranthene	**73**		10	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Chrysene	**100**		11	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Dibenz(a,h)anthracene	25	U	25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Fluoranthene	**150**		25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Fluorene	**17**	**J**	25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Indeno[1,2,3-cd]pyrene	**150**		25	9.0	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
1-Methylnaphthalene	**40**	**J**	51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
2-Methylnaphthalene	**77**		51	9.0	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Naphthalene	**61**		51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Phenanthrene	**110**		10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Pyrene	**160**		25	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*04/19/13 11:14*	*04/22/13 19:18*	*1*

Client Sample ID: FM0106C-CS-SP

Lab Sample ID: 680-89421-9

Date Collected: 04/15/13 15:20
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 79.6

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	☼	04/19/13 11:14	04/22/13 19:36	1
Acenaphthylene	**8.5**	**J**	50	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Anthracene	**11**		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[a]anthracene	**44**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[a]pyrene	**38**		13	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[b]fluoranthene	**67**		15	7.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[g,h,i]perylene	**33**		25	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[k]fluoranthene	**24**		9.9	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Chrysene	**69**		11	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Fluoranthene	**49**		25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Fluorene	**14**	**J**	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Indeno[1,2,3-cd]pyrene	**86**		25	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
1-Methylnaphthalene	**35**	**J**	50	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
2-Methylnaphthalene	**58**		50	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Naphthalene	**38**	**J**	50	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Phenanthrene	**49**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Pyrene	**48**		25	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/19/13 11:14*	*04/22/13 19:36*	*1*

Client Sample ID: 041513-RB-Shovel

Lab Sample ID: 680-89421-10

Date Collected: 04/15/13 16:00
Matrix: Water
Date Received: 04/17/13 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
Acenaphthylene	1.0	U	1.0	0.26	ug/L		04/17/13 12:20	04/18/13 16:17	1
Anthracene	0.20	U	0.20	0.078	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[a]anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[a]pyrene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[b]fluoranthene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[g,h,i]perylene	0.51	U	0.51	0.10	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[k]fluoranthene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 16:17	1
Chrysene	0.20	U	0.20	0.070	ug/L		04/17/13 12:20	04/18/13 16:17	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
Fluoranthene	0.51	U	0.51	0.055	ug/L		04/17/13 12:20	04/18/13 16:17	1
Fluorene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
1-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
2-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
Naphthalene	2.0	U	2.0	0.26	ug/L		04/17/13 12:20	04/18/13 16:17	1
Phenanthrene	0.51	U	0.51	0.20	ug/L		04/17/13 12:20	04/18/13 16:17	1
Pyrene	0.51	U	0.51	0.091	ug/L		04/17/13 12:20	04/18/13 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*04/17/13 12:20*	*04/18/13 16:17*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-89421-1

SDG Number: 68089421-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/26/2013 5:13 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/26/2013

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

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

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

NELAP ACCREDITED TNI LABORATORY

Table of Contents

Table of Contents

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89421-1

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

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

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

RECEIPT

The samples were received on 04/17/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1001A-CS (680-89421-1), CV1082A-CS (680-89421-2), CV1082A-CSD (680-89421-3), CV0745A-CS-SP (680-89421-4), CV0745B-CS-SP (680-89421-5), FM0060A-CS-SP (680-89421-6), FM0106A-CS-SP (680-89421-7), FM0106B-CS-SP (680-89421-8) and FM0106C-CS-SP (680-89421-9) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/22/2013 and 04/24/2013.

Samples CV1001A-CS (680-89421-1)[4X], CV0745A-CS-SP (680-89421-4)[4X] and FM0060A-CS-SP (680-89421-6)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

For the MSD of sample 680-89328-8 in batch 660-136698, 1-Methylnaphthalene and 2-Methylnaphthalene recovered outside the recovery criteria. Also, Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene exceeded the rpd limit.

Fluoranthene and Phenanthrene recovered outside of the recovery criteria for the MSD of sample CV1001A-CS (680-89421-1) in batch 660-136792.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 041513-RB-Shovel (680-89421-10) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
Sdg Number: 68089421-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89421-1	CV1001A-CS	Solid	04/15/2013 1310	04/17/2013 0840
680-89421-1MS	CV1001A-CS	Solid	04/15/2013 1310	04/17/2013 0840
680-89421-1MSD	CV1001A-CS	Solid	04/15/2013 1310	04/17/2013 0840
680-89421-2	CV1082A-CS	Solid	04/15/2013 1245	04/17/2013 0840
680-89421-3	CV1082A-CSD	Solid	04/15/2013 1245	04/17/2013 0840
680-89421-4	CV0745A-CS-SP	Solid	04/15/2013 1325	04/17/2013 0840
680-89421-5	CV0745B-CS-SP	Solid	04/15/2013 1345	04/17/2013 0840
680-89421-6	FM0060A-CS-SP	Solid	04/15/2013 1425	04/17/2013 0840
680-89421-7	FM0106A-CS-SP	Solid	04/15/2013 1500	04/17/2013 0840
680-89421-8	FM0106B-CS-SP	Solid	04/15/2013 1515	04/17/2013 0840
680-89421-9	FM0106C-CS-SP	Solid	04/15/2013 1520	04/17/2013 0840
680-89421-10	041513-RB-Shovel	Water	04/15/2013 1600	04/17/2013 0840

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
Sdg Number: 68089421-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	
Matrix: Water			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
Sdg Number: 68089421-1

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
Sdg Number: 68089421-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
Sdg Number: 68089421-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136486					
640-42984-B-1-C MS	Matrix Spike	E	Water		
Prep Batch: 660-136534					
LCS 660-136534/2-A	Lab Control Sample	T	Water	3520C	
MB 660-136534/1-A	Method Blank	T	Water	3520C	
640-42984-B-1-C MS	Matrix Spike	E	Water	3520C	660-136486
680-89275-A-1-A DU	Duplicate	T	Water	3520C	
680-89421-10	041513-RB-Shovel	T	Water	3520C	
Analysis Batch:660-136605					
LCS 660-136534/2-A	Lab Control Sample	T	Water	8270C LL	660-136534
MB 660-136534/1-A	Method Blank	T	Water	8270C LL	660-136534
640-42984-B-1-C MS	Matrix Spike	E	Water	8270C LL	660-136534
680-89275-A-1-A DU	Duplicate	T	Water	8270C LL	660-136534
680-89421-10	041513-RB-Shovel	T	Water	8270C LL	660-136534
Prep Batch: 660-136637					
LCS 660-136637/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136637/1-A	Method Blank	T	Solid	3546	
680-89328-A-8-B MS	Matrix Spike	T	Solid	3546	
680-89328-A-8-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89421-2	CV1082A-CS	T	Solid	3546	
680-89421-3	CV1082A-CSD	T	Solid	3546	
680-89421-4	CV0745A-CS-SP	T	Solid	3546	
680-89421-5	CV0745B-CS-SP	T	Solid	3546	
680-89421-6	FM0060A-CS-SP	T	Solid	3546	
680-89421-7	FM0106A-CS-SP	T	Solid	3546	
680-89421-8	FM0106B-CS-SP	T	Solid	3546	
680-89421-9	FM0106C-CS-SP	T	Solid	3546	
Analysis Batch:660-136698					
LCS 660-136637/2-A	Lab Control Sample	T	Solid	8270C LL	660-136637
MB 660-136637/1-A	Method Blank	T	Solid	8270C LL	660-136637
680-89328-A-8-B MS	Matrix Spike	T	Solid	8270C LL	660-136637
680-89328-A-8-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136637
680-89421-2	CV1082A-CS	T	Solid	8270C LL	660-136637
680-89421-3	CV1082A-CSD	T	Solid	8270C LL	660-136637
680-89421-4	CV0745A-CS-SP	T	Solid	8270C LL	660-136637
680-89421-5	CV0745B-CS-SP	T	Solid	8270C LL	660-136637
680-89421-6	FM0060A-CS-SP	T	Solid	8270C LL	660-136637
680-89421-7	FM0106A-CS-SP	T	Solid	8270C LL	660-136637
680-89421-8	FM0106B-CS-SP	T	Solid	8270C LL	660-136637
680-89421-9	FM0106C-CS-SP	T	Solid	8270C LL	660-136637

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
Sdg Number: 68089421-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136731					
LCS 660-136731/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136731/1-A	Method Blank	T	Solid	3546	
680-89421-1	CV1001A-CS	T	Solid	3546	
680-89421-1MS	Matrix Spike	T	Solid	3546	
680-89421-1MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-136792					
LCS 660-136731/2-A	Lab Control Sample	T	Solid	8270C LL	660-136731
MB 660-136731/1-A	Method Blank	T	Solid	8270C LL	660-136731
680-89421-1	CV1001A-CS	T	Solid	8270C LL	660-136731
680-89421-1MS	Matrix Spike	T	Solid	8270C LL	660-136731
680-89421-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136731

Report Basis
E = SPLP East
T = Total

General Chemistry

Analysis Batch:660-136584					
680-89421-1	CV1001A-CS	T	Solid	Moisture	
680-89421-1MS	Matrix Spike	T	Solid	Moisture	
680-89421-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89421-2	CV1082A-CS	T	Solid	Moisture	
680-89421-3	CV1082A-CSD	T	Solid	Moisture	
680-89421-4	CV0745A-CS-SP	T	Solid	Moisture	
680-89421-5	CV0745B-CS-SP	T	Solid	Moisture	
680-89421-6	FM0060A-CS-SP	T	Solid	Moisture	
680-89421-7	FM0106A-CS-SP	T	Solid	Moisture	
680-89421-8	FM0106B-CS-SP	T	Solid	Moisture	
680-89421-9	FM0106C-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: ICIS 660-136370/3 Client Sample ID:

Date Analyzed: 04/11/13 11:56 Lab File ID: 1CD11003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 12:40

Lab Sample ID: IC 660-136370/4 Client Sample ID:

Date Analyzed: 04/11/13 12:35 Lab File ID: 1CD11004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/5 Client Sample ID:

Date Analyzed: 04/11/13 12:53 Lab File ID: 1CD11005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:34
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/6 Client Sample ID:

Date Analyzed: 04/11/13 13:11 Lab File ID: 1CD11006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:35

Lab Sample ID: IC 660-136370/7 Client Sample ID:

Date Analyzed: 04/11/13 13:30 Lab File ID: 1CD11007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: IC 660-136370/8 Client Sample ID:

Date Analyzed: 04/11/13 13:48 Lab File ID: 1CD11008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

Lab Sample ID: IC 660-136370/9 Client Sample ID:

Date Analyzed: 04/11/13 14:06 Lab File ID: 1CD11009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:37

Lab Sample ID: ICV 660-136370/10 Client Sample ID:

Date Analyzed: 04/11/13 14:25 Lab File ID: 1CD11010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136605

Lab Sample ID: CCVIS 660-136605/3 Client Sample ID:

Date Analyzed: 04/18/13 12:01 Lab File ID: 1CD18003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/18/13 12:15

Lab Sample ID: 640-42984-B-1-C MS Client Sample ID:

Date Analyzed: 04/18/13 13:51 Lab File ID: 1CD18009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/18/13 14:29
Benzo[g,h,i]perylene	10.21	Baseline Event	cantins	04/18/13 14:29

Lab Sample ID: LCS 660-136534/2-A Client Sample ID:

Date Analyzed: 04/18/13 14:09 Lab File ID: 1CD18010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/18/13 14:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136698

Lab Sample ID: CCVIS 660-136698/3 Client Sample ID:

Date Analyzed: 04/22/13 11:50 Lab File ID: 1CD22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/22/13 12:08

Lab Sample ID: LCS 660-136637/2-A Client Sample ID:

Date Analyzed: 04/22/13 15:38 Lab File ID: 1CD22013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/23/13 16:14

Lab Sample ID: 680-89328-A-8-B MS Client Sample ID:

Date Analyzed: 04/22/13 16:51 Lab File ID: 1CD22017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Baseline Event	cantins	04/23/13 16:20
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/23/13 16:20

Lab Sample ID: 680-89328-A-8-C MSD Client Sample ID:

Date Analyzed: 04/22/13 17:10 Lab File ID: 1CD22018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/23/13 16:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136698

Lab Sample ID: 680-89421-2 Client Sample ID: CV1082A-CS

Date Analyzed: 04/22/13 17:28 Lab File ID: 1CD22019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 10:12
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/24/13 10:12
Indeno[1,2,3-cd]pyrene	9.86	Split Peak	cantins	04/24/13 10:13
Dibenz(a,h)anthracene	9.88	Baseline Event	cantins	04/24/13 10:12
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:13

Lab Sample ID: 680-89421-3 Client Sample ID: CV1082A-CSD

Date Analyzed: 04/22/13 17:46 Lab File ID: 1CD22020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 10:14
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/24/13 10:14
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/24/13 10:14

Lab Sample ID: 680-89421-5 Client Sample ID: CV0745B-CS-SP

Date Analyzed: 04/22/13 18:23 Lab File ID: 1CD22022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 10:16
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/24/13 10:17
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/24/13 10:17
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136698

Lab Sample ID: 680-89421-6 Client Sample ID: FM0060A-CS-SP

Date Analyzed: 04/22/13 18:41 Lab File ID: 1CD22023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.86	Baseline Event	cantins	04/24/13 10:19
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:19

Lab Sample ID: 680-89421-7 Client Sample ID: FM0106A-CS-SP

Date Analyzed: 04/22/13 19:00 Lab File ID: 1CD22024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 10:21
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/24/13 10:21
Indeno[1,2,3-cd]pyrene	9.87	Baseline Event	cantins	04/24/13 10:21
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:20

Lab Sample ID: 680-89421-8 Client Sample ID: FM0106B-CS-SP

Date Analyzed: 04/22/13 19:18 Lab File ID: 1CD22025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 10:23
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/24/13 10:23
Benzo[g,h,i]perylene	10.21	Baseline Event	cantins	04/24/13 10:23

Lab Sample ID: 680-89421-9 Client Sample ID: FM0106C-CS-SP

Date Analyzed: 04/22/13 19:36 Lab File ID: 1CD22026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.86	Baseline Event	cantins	04/24/13 10:24
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:25

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: ICIS 660-136792/8 Client Sample ID:

Date Analyzed: 04/24/13 13:57 Lab File ID: 1CD24007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.84	Split Peak	cantins	04/24/13 16:00

Lab Sample ID: IC 660-136792/9 Client Sample ID:

Date Analyzed: 04/24/13 14:16 Lab File ID: 1CD24008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	5.82	Analyte not Identified by the Data System	cantins	04/24/13 16:05
Indeno[1,2,3-cd]pyrene	9.82	Baseline Event	cantins	04/24/13 16:07
Dibenz(a,h)anthracene	9.83	Baseline Event	cantins	04/24/13 16:07
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:07

Lab Sample ID: IC 660-136792/10 Client Sample ID:

Date Analyzed: 04/24/13 14:34 Lab File ID: 1CD24009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	5.06	Analyte not Identified by the Data System	cantins	04/24/13 16:14
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/24/13 16:14
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/24/13 16:14
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:14

Lab Sample ID: IC 660-136792/11 Client Sample ID:

Date Analyzed: 04/24/13 14:52 Lab File ID: 1CD24010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: IC 660-136792/12 Client Sample ID:

Date Analyzed: 04/24/13 15:11 Lab File ID: 1CD24011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:21
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:20

Lab Sample ID: IC 660-136792/13 Client Sample ID:

Date Analyzed: 04/24/13 15:29 Lab File ID: 1CD24012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:21

Lab Sample ID: IC 660-136792/14 Client Sample ID:

Date Analyzed: 04/24/13 15:47 Lab File ID: 1CD24013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/24/13 16:22

Lab Sample ID: ICV 660-136792/15 Client Sample ID:

Date Analyzed: 04/24/13 16:06 Lab File ID: 1CD24014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:35

Lab Sample ID: LCS 660-136731/2-A Client Sample ID:

Date Analyzed: 04/24/13 16:58 Lab File ID: 1CD24016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89421-1 Client Sample ID: CV1001A-CS

Date Analyzed: 04/24/13 17:16 Lab File ID: 1CD24017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	7.58	Baseline Event	cantins	04/25/13 11:29
Chrysene	7.61	Baseline Event	cantins	04/25/13 11:29
Benzo[b]fluoranthene	8.41	Split Peak	cantins	04/25/13 11:29
Benzo[k]fluoranthene	8.43	Baseline Event	cantins	04/25/13 11:30
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:32
Dibenz(a,h)anthracene	9.84	Baseline Event	cantins	04/25/13 11:31
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 11:30

Lab Sample ID: 680-89421-1 MS Client Sample ID: CV1001A-CS MS

Date Analyzed: 04/24/13 17:34 Lab File ID: 1CD24018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/25/13 11:33

Lab Sample ID: 680-89421-1 MSD Client Sample ID: CV1001A-CS MSD

Date Analyzed: 04/24/13 17:52 Lab File ID: 1CD24019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:34
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 11:33

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.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1001A-CS	680-89421-1	50
CV1082A-CS	680-89421-2	66
CV1082A-CSD	680-89421-3	65
CV0745A-CS-SP	680-89421-4	87
CV0745B-CS-SP	680-89421-5	63
FM0060A-CS-SP	680-89421-6	80
FM0106A-CS-SP	680-89421-7	57
FM0106B-CS-SP	680-89421-8	62
FM0106C-CS-SP	680-89421-9	68
	MB 660-136637/1-A	67
	MB 660-136731/1-A	82
	LCS 660-136637/2-A	74
	LCS 660-136731/2-A	83
	680-89328-A-8-B MS	80
CV1001A-CS MS	680-89421-1 MS	75
	680-89328-A-8-C MSD	81
CV1001A-CS MSD	680-89421-1 MSD	85

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
041513-RB-Shovel	680-89421-10	52
	MB 660-136534/1-A	67
	LCS 660-136534/2-A	79
	680-89275-A-1-A DU	61

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Matrix: Water (SPLP East) Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	640-42984-B-1-C MS	40

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Matrix: Water Level: Low Lab File ID: 1CD18010.D

Lab ID: LCS 660-136534/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	7.86	79	55-132	
Acenaphthylene	10.0	8.60	86	39-130	
Anthracene	10.0	7.92	79	39-130	
Benzo[a]anthracene	10.0	8.02	80	54-135	
Benzo[a]pyrene	10.0	5.44	54	21-130	
Benzo[b]fluoranthene	10.0	6.24	62	37-130	
Benzo[g,h,i]perylene	10.0	4.04	40	26-130	
Benzo[k]fluoranthene	10.0	6.17	62	38-130	
Chrysene	10.0	7.37	74	56-130	
Dibenz(a,h)anthracene	10.0	4.51	45	13-130	
Fluoranthene	10.0	7.98	80	60-130	
Fluorene	10.0	9.15	91	55-140	
Indeno[1,2,3-cd]pyrene	10.0	4.49	45	21-130	
1-Methylnaphthalene	10.0	6.89	69	49-130	
2-Methylnaphthalene	10.0	7.46	75	48-130	
Naphthalene	10.0	7.43	74	54-133	
Phenanthrene	10.0	7.98	80	60-136	
Pyrene	10.0	7.79	78	60-138	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low Lab File ID: 1CD22013.D

Lab ID: LCS 660-136637/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	537	81	39-130	
Acenaphthylene	660	492	74	38-130	
Anthracene	660	528	80	37-130	
Benzo[a]anthracene	660	579	88	40-130	
Benzo[a]pyrene	660	446	68	49-130	
Benzo[b]fluoranthene	660	556	84	37-130	
Benzo[g,h,i]perylene	660	468	71	32-130	
Benzo[k]fluoranthene	660	589	89	32-130	
Chrysene	660	465	70	41-130	
Dibenz(a,h)anthracene	660	553	84	27-130	
Fluoranthene	660	538	81	40-130	
Fluorene	660	534	81	40-130	
Indeno[1,2,3-cd]pyrene	660	400	61	30-130	
1-Methylnaphthalene	660	423	64	31-130	
2-Methylnaphthalene	660	435	66	33-130	
Naphthalene	660	472	71	36-130	
Phenanthrene	660	534	81	42-130	
Pyrene	660	479	73	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.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low Lab File ID: 1CD24016.D

Lab ID: LCS 660-136731/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	523	78	39-130	
Acenaphthylene	668	506	76	38-130	
Anthracene	668	577	86	37-130	
Benzo[a]anthracene	668	787	118	40-130	
Benzo[a]pyrene	668	499	75	49-130	
Benzo[b]fluoranthene	668	562	84	37-130	
Benzo[g,h,i]perylene	668	542	81	32-130	
Benzo[k]fluoranthene	668	662	99	32-130	
Chrysene	668	567	85	41-130	
Dibenz(a,h)anthracene	668	631	94	27-130	
Fluoranthene	668	617	92	40-130	
Fluorene	668	597	89	40-130	
Indeno[1,2,3-cd]pyrene	668	574	86	30-130	
1-Methylnaphthalene	668	546	82	31-130	
2-Methylnaphthalene	668	521	78	33-130	
Naphthalene	668	612	91	36-130	
Phenanthrene	668	653	98	42-130	
Pyrene	668	571	85	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.: 680-89421-1

SDG No.: 68089421-1

Matrix: Water (SPLP Level: Low Lab File ID: 1CD18009.D

Lab ID: 640-42984-B-1-C MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	10.5	1.9 U	4.47	42	55-132	F
Acenaphthylene	10.5	0.95 U	5.16	49	39-130	
Anthracene	10.5	0.19 U	3.58	34	39-130	F
Benzo[a]anthracene	10.5	0.19 U	1.32	13	54-135	F
Benzo[a]pyrene	10.5	0.19 U	0.732	7	21-130	F
Benzo[b]fluoranthene	10.5	0.19 U	0.858	8	37-130	F
Benzo[g,h,i]perylene	10.5	0.48 U	0.675	6	26-130	F
Benzo[k]fluoranthene	10.5	0.19 U	1.05	10	38-130	F
Chrysene	10.5	0.19 U	1.11	11	56-130	F
Dibenz(a,h)anthracene	10.5	0.19 U	1.27	12	13-130	F
Fluoranthene	10.5	0.059 J	2.22	21	60-130	F
Fluorene	10.5	1.9 U	5.31	50	55-140	F
Indeno[1,2,3-cd]pyrene	10.5	0.19 U	1.44	14	21-130	F
1-Methylnaphthalene	10.5	1.9 U	6.10	58	49-130	
2-Methylnaphthalene	10.5	1.9 U	6.01	57	48-130	
Naphthalene	10.5	1.9 U	4.69	45	54-133	F
Phenanthrene	10.5	0.48 U	4.35	41	60-136	F
Pyrene	10.5	0.48 U	2.06	20	60-138	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.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low Lab File ID: 1CD22017.D

Lab ID: 680-89328-A-8-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	826	500 U	654	79	39-130	
Acenaphthylene	826	71 J	680	74	38-130	
Anthracene	826	46	501	55	37-130	
Benzo[a]anthracene	826	210	927	87	40-130	
Benzo[a]pyrene	826	260	690	52	49-130	
Benzo[b]fluoranthene	826	370	964	72	37-130	
Benzo[g,h,i]perylene	826	230	816	71	32-130	
Benzo[k]fluoranthene	826	110	744	77	32-130	
Chrysene	826	330	777	54	41-130	
Dibenz(a,h)anthracene	826	99 U	596	72	27-130	
Fluoranthene	826	300	980	82	40-130	
Fluorene	826	99 U	528	64	40-130	
Indeno[1,2,3-cd]pyrene	826	380	810	52	30-130	
1-Methylnaphthalene	826	190 J	556	45	31-130	
2-Methylnaphthalene	826	270	682	50	33-130	
Naphthalene	826	130 J	483	43	36-130	
Phenanthrene	826	200	833	76	42-130	
Pyrene	826	380	890	62	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.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low Lab File ID: 1CD24018.D

Lab ID: 680-89421-1 MS Client ID: CV1001A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	868	520 U	648	75	39-130	
Acenaphthylene	868	210 U	637	73	38-130	
Anthracene	868	160	637	54	37-130	
Benzo[a]anthracene	868	720	1260	62	40-130	
Benzo[a]pyrene	868	420	940	60	49-130	
Benzo[b]fluoranthene	868	700	1430	84	37-130	
Benzo[g,h,i]perylene	868	380	953	66	32-130	
Benzo[k]fluoranthene	868	130	972	97	32-130	
Chrysene	868	480	1430	110	41-130	
Dibenz(a,h)anthracene	868	73 J	778	81	27-130	
Fluoranthene	868	500	1430	107	40-130	
Fluorene	868	100 U	588	68	40-130	
Indeno[1,2,3-cd]pyrene	868	420	820	46	30-130	
1-Methylnaphthalene	868	230	1000	89	31-130	
2-Methylnaphthalene	868	470	1270	92	33-130	
Naphthalene	868	300	1010	82	36-130	
Phenanthrene	868	540	1490	110	42-130	
Pyrene	868	590	1170	66	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low Lab File ID: 1CD22018.D

Lab ID: 680-89328-A-8-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	826	551	67	17	40	39-130	
Acenaphthylene	826	580	62	16	40	38-130	
Anthracene	826	661	74	27	40	37-130	
Benzo[a]anthracene	826	1190	119	25	40	40-130	
Benzo[a]pyrene	826	1060	97	42	40	49-130	F
Benzo[b]fluoranthene	826	1300	112	30	40	37-130	
Benzo[g,h,i]perylene	826	868	77	6	40	32-130	
Benzo[k]fluoranthene	826	840	89	12	40	32-130	
Chrysene	826	1240	110	46	40	41-130	F
Dibenz(a,h)anthracene	826	611	74	2	40	27-130	
Fluoranthene	826	1860	188	62	40	40-130	F
Fluorene	826	601	73	13	40	40-130	
Indeno[1,2,3-cd]pyrene	826	1030	79	24	40	30-130	
1-Methylnaphthalene	826	439	30	23	40	31-130	F
2-Methylnaphthalene	826	528	32	25	40	33-130	F
Naphthalene	826	476	42	1	40	36-130	
Phenanthrene	826	1250	127	40	40	42-130	
Pyrene	826	1680	158	62	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.: 680-89421-1

SDG No.: 68089421-1

Matrix: Solid Level: Low Lab File ID: 1CD24019.D

Lab ID: 680-89421-1 MSD Client ID: CV1001A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	866	543	63	18	40	39-130	
Acenaphthylene	866	662	76	4	40	38-130	
Anthracene	866	660	57	4	40	37-130	
Benzo[a]anthracene	866	1270	64	1	40	40-130	
Benzo[a]pyrene	866	1100	79	16	40	49-130	
Benzo[b]fluoranthene	866	1290	69	10	40	37-130	
Benzo[g,h,i]perylene	866	868	56	9	40	32-130	
Benzo[k]fluoranthene	866	1030	104	6	40	32-130	
Chrysene	866	1290	94	10	40	41-130	
Dibenz(a,h)anthracene	866	665	68	16	40	27-130	
Fluoranthene	866	1700	139	17	40	40-130	F
Fluorene	866	800	92	30	40	40-130	
Indeno[1,2,3-cd]pyrene	866	852	50	4	40	30-130	
1-Methylnaphthalene	866	1200	112	18	40	31-130	
2-Methylnaphthalene	866	1300	95	2	40	33-130	
Naphthalene	866	1020	83	1	40	36-130	
Phenanthrene	866	1750	139	16	40	42-130	F
Pyrene	866	1470	102	23	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD18005.D Lab Sample ID: MB 660-136534/1-A

Matrix: Water Date Extracted: 04/17/2013 12:20

Instrument ID: BSMC5973 Date Analyzed: 04/18/2013 12:37

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	640-42984-B-1-C MS	1CD18009.D	04/18/2013 13:51
	LCS 660-136534/2-A	1CD18010.D	04/18/2013 14:09
	680-89275-A-1-A DU	1CD18015.D	04/18/2013 15:41
041513-RB-Shovel	680-89421-10	1CD18017.D	04/18/2013 16:17

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD22012.D Lab Sample ID: MB 660-136637/1-A

Matrix: Solid Date Extracted: 04/19/2013 11:14

Instrument ID: BSMC5973 Date Analyzed: 04/22/2013 15:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136637/2-A	1CD22013.D	04/22/2013 15:38
	680-89328-A-8-B MS	1CD22017.D	04/22/2013 16:51
	680-89328-A-8-C MSD	1CD22018.D	04/22/2013 17:10
CV1082A-CS	680-89421-2	1CD22019.D	04/22/2013 17:28
CV1082A-CSD	680-89421-3	1CD22020.D	04/22/2013 17:46
CV0745A-CS-SP	680-89421-4	1CD22021.D	04/22/2013 18:05
CV0745B-CS-SP	680-89421-5	1CD22022.D	04/22/2013 18:23
FM0060A-CS-SP	680-89421-6	1CD22023.D	04/22/2013 18:41
FM0106A-CS-SP	680-89421-7	1CD22024.D	04/22/2013 19:00
FM0106B-CS-SP	680-89421-8	1CD22025.D	04/22/2013 19:18
FM0106C-CS-SP	680-89421-9	1CD22026.D	04/22/2013 19:36

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD24015.D Lab Sample ID: MB 660-136731/1-A

Matrix: Solid Date Extracted: 04/23/2013 10:36

Instrument ID: BSMC5973 Date Analyzed: 04/24/2013 16:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136731/2-A	1CD24016.D	04/24/2013 16:58
CV1001A-CS	680-89421-1	1CD24017.D	04/24/2013 17:16
CV1001A-CS MS	680-89421-1 MS	1CD24018.D	04/24/2013 17:34
CV1001A-CS MSD	680-89421-1 MSD	1CD24019.D	04/24/2013 17:52

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

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:38

Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	38.7	
68	Less than 2.0 % of mass 69	0.6	(1.3)1
69	Mass 69 relative abundance	48.8	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	45.9	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.8	
275	10.0 - 60.0 % of mass 198	20.8	
365	Greater than 1.0 % of mass 198	5.1	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	76.7	
443	15.0 - 24.0 % of mass 442	16.1	(20.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136370/3	1CD11003.D	04/11/2013	11:56
	IC 660-136370/4	1CD11004.D	04/11/2013	12:35
	IC 660-136370/5	1CD11005.D	04/11/2013	12:53
	IC 660-136370/6	1CD11006.D	04/11/2013	13:11
	IC 660-136370/7	1CD11007.D	04/11/2013	13:30
	IC 660-136370/8	1CD11008.D	04/11/2013	13:48
	IC 660-136370/9	1CD11009.D	04/11/2013	14:06
	ICV 660-136370/10	1CD11010.D	04/11/2013	14:25

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

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD18002.D DFTPP Injection Date: 04/18/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:44

Analysis Batch No.: 136605

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.3	
68	Less than 2.0 % of mass 69	0.9	(1.6)1
69	Mass 69 relative abundance	55.9	
70	Less than 2.0 % of mass 69	0.5	(0.9)1
127	10.0 - 80.0 % of mass 198	53.2	
197	Less than 2.0 % of mass 198	1.3	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.1	
275	10.0 - 60.0 % of mass 198	23.0	
365	Greater than 1.0 % of mass 198	5.4	
441	Present but less than mass 443	10.7	
442	Greater than 50.0 % of mass 198	79.1	
443	15.0 - 24.0 % of mass 442	13.8	(17.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136605/3	1CD18003.D	04/18/2013	12:01
	MB 660-136534/1-A	1CD18005.D	04/18/2013	12:37
	640-42984-B-1-C MS	1CD18009.D	04/18/2013	13:51
	LCS 660-136534/2-A	1CD18010.D	04/18/2013	14:09
	680-89275-A-1-A DU	1CD18015.D	04/18/2013	15:41
041513-RB-Shovel	680-89421-10	1CD18017.D	04/18/2013	16:17

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

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD22002.D DFTPP Injection Date: 04/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:33

Analysis Batch No.: 136698

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	59.9	
68	Less than 2.0 % of mass 69	1.1	(1.9)1
69	Mass 69 relative abundance	60.9	
70	Less than 2.0 % of mass 69	0.7	(1.1)1
127	10.0 - 80.0 % of mass 198	56.3	
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	7.8	
275	10.0 - 60.0 % of mass 198	28.5	
365	Greater than 1.0 % of mass 198	6.9	
441	Present but less than mass 443	11.8	
442	Greater than 50.0 % of mass 198	72.8	
443	15.0 - 24.0 % of mass 442	15.2	(20.8)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 660-136698/3	1CD22003.D	04/22/2013	11:50
	MB 660-136637/1-A	1CD22012.D	04/22/2013	15:20
	LCS 660-136637/2-A	1CD22013.D	04/22/2013	15:38
	680-89328-A-8-B MS	1CD22017.D	04/22/2013	16:51
	680-89328-A-8-C MSD	1CD22018.D	04/22/2013	17:10
CV1082A-CS	680-89421-2	1CD22019.D	04/22/2013	17:28
CV1082A-CSD	680-89421-3	1CD22020.D	04/22/2013	17:46
CV0745A-CS-SP	680-89421-4	1CD22021.D	04/22/2013	18:05
CV0745B-CS-SP	680-89421-5	1CD22022.D	04/22/2013	18:23
FM0060A-CS-SP	680-89421-6	1CD22023.D	04/22/2013	18:41
FM0106A-CS-SP	680-89421-7	1CD22024.D	04/22/2013	19:00
FM0106B-CS-SP	680-89421-8	1CD22025.D	04/22/2013	19:18
FM0106C-CS-SP	680-89421-9	1CD22026.D	04/22/2013	19:36

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

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab File ID: 1CD24006.D DFTPP Injection Date: 04/24/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:40

Analysis Batch No.: 136792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	71.7	
68	Less than 2.0 % of mass 69	1.1	(1.5)1
69	Mass 69 relative abundance	73.2	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	59.5	
197	Less than 2.0 % of mass 198	1.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	22.9	
365	Greater than 1.0 % of mass 198	7.3	
441	Present but less than mass 443	10.3	
442	Greater than 50.0 % of mass 198	58.7	
443	15.0 - 24.0 % of mass 442	11.7	(19.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136792/8	1CD24007.D	04/24/2013	13:57
	IC 660-136792/9	1CD24008.D	04/24/2013	14:16
	IC 660-136792/10	1CD24009.D	04/24/2013	14:34
	IC 660-136792/11	1CD24010.D	04/24/2013	14:52
	IC 660-136792/12	1CD24011.D	04/24/2013	15:11
	IC 660-136792/13	1CD24012.D	04/24/2013	15:29
	IC 660-136792/14	1CD24013.D	04/24/2013	15:47
	ICV 660-136792/15	1CD24014.D	04/24/2013	16:06
	MB 660-136731/1-A	1CD24015.D	04/24/2013	16:40
	LCS 660-136731/2-A	1CD24016.D	04/24/2013	16:58
CV1001A-CS	680-89421-1	1CD24017.D	04/24/2013	17:16
CV1001A-CS MS	680-89421-1 MS	1CD24018.D	04/24/2013	17:34
CV1001A-CS MSD	680-89421-1 MSD	1CD24019.D	04/24/2013	17:52

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

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56

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

Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		245713	3.68	179699	4.76	320372	5.70
UPPER LIMIT		491426	4.18	359398	5.26	640744	6.20
LOWER LIMIT		122857	3.18	89850	4.26	160186	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		273342	3.67	204687	4.76	380421	5.70

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56

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

Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		410945	7.65	438804	8.80		
UPPER LIMIT		821890	8.15	877608	9.30		
LOWER LIMIT		205473	7.15	219402	8.30		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		501991	7.64	491170	8.80		

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: CCVIS 660-136605/3 Date Analyzed: 04/18/2013 12:01

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

Lab File ID (Standard): 1CD18003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		223132	3.66	151077	4.75	296248	5.69
UPPER LIMIT		446264	4.16	302154	5.25	592496	6.19
LOWER LIMIT		111566	3.16	75539	4.25	148124	5.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136534/1-A		247540	3.66	178423	4.75	334717	5.69
640-42984-B-1-C MS		258024	3.66	185482	4.75	367599	5.69
LCS 660-136534/2-A		209025	3.66	133004	4.75	264879	5.69
680-89275-A-1-A DU		271177	3.66	189753	4.75	358798	5.69
680-89421-10	041513-RB-Shovel	278998	3.66	191054	4.75	374624	5.69

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: CCVIS 660-136605/3 Date Analyzed: 04/18/2013 12:01

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

Lab File ID (Standard): 1CD18003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		379503	7.63	385868	8.78		
UPPER LIMIT		759006	8.13	771736	9.28		
LOWER LIMIT		189752	7.13	192934	8.28		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136534/1-A		412162	7.62	455980	8.78		
640-42984-B-1-C MS		453778	7.62	428900	8.77		
LCS 660-136534/2-A		337029	7.62	339368	8.77		
680-89275-A-1-A DU		462318	7.62	445114	8.78		
680-89421-10	041513-RB-Shovel	440313	7.62	453610	8.78		

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50

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

Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		177233	3.65	115325	4.74	215585	5.68
UPPER LIMIT		354466	4.15	230650	5.24	431170	6.18
LOWER LIMIT		88617	3.15	57663	4.24	107793	5.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136637/1-A		198118	3.65	144074	4.74	250592	5.69
LCS 660-136637/2-A		194740	3.65	124944	4.74	229447	5.68
680-89328-A-8-B MS		207649	3.65	130313	4.74	251724	5.68
680-89328-A-8-C MSD		215035	3.65	137990	4.74	254165	5.68
680-89421-2	CV1082A-CS	189359	3.65	121435	4.74	234959	5.68
680-89421-3	CV1082A-CSD	207580	3.65	138461	4.74	259867	5.68
680-89421-4	CV0745A-CS-SP	236748	3.65	164336	4.74	293490	5.68
680-89421-5	CV0745B-CS-SP	217718	3.65	147562	4.74	280809	5.68
680-89421-6	FM0060A-CS-SP	214526	3.65	143528	4.74	271772	5.68
680-89421-7	FM0106A-CS-SP	210608	3.65	149819	4.74	277993	5.68
680-89421-8	FM0106B-CS-SP	225235	3.65	161875	4.74	283838	5.68
680-89421-9	FM0106C-CS-SP	207811	3.65	148128	4.74	289974	5.68

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50

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

Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		268224	7.62	275000	8.76		
UPPER LIMIT		536448	8.12	550000	9.26		
LOWER LIMIT		134112	7.12	137500	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136637/1-A		308173	7.62	325429	8.78		
LCS 660-136637/2-A		303066	7.62	303188	8.76		
680-89328-A-8-B MS		309063	7.61	299307	8.76		
680-89328-A-8-C MSD		301869	7.61	310059	8.76		
680-89421-2	CV1082A-CS	318610	7.61	302752	8.76		
680-89421-3	CV1082A-CSD	324511	7.62	311944	8.76		
680-89421-4	CV0745A-CS-SP	313258	7.61	315866	8.76		
680-89421-5	CV0745B-CS-SP	322396	7.62	291785	8.76		
680-89421-6	FM0060A-CS-SP	292801	7.61	285586	8.76		
680-89421-7	FM0106A-CS-SP	305135	7.62	281528	8.76		
680-89421-8	FM0106B-CS-SP	328041	7.62	285274	8.76		
680-89421-9	FM0106C-CS-SP	300241	7.61	291391	8.76		

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: ICIS 660-136792/8 Date Analyzed: 04/24/2013 13:57

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

Lab File ID (Standard): 1CD24007.D Heated Purge: (Y/N) N

Calibration ID: 2916

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		127529	3.63	79707	4.72	157508	5.66
UPPER LIMIT		255058	4.13	159414	5.22	315016	6.16
LOWER LIMIT		63765	3.13	39854	4.22	78754	5.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136792/15		178260	3.63	107629	4.72	194163	5.66
MB 660-136731/1-A		148951	3.63	95079	4.72	165222	5.67
LCS 660-136731/2-A		127322	3.63	84433	4.72	159954	5.66
680-89421-1	CV1001A-CS	151382	3.63	95485	4.72	164736	5.66
680-89421-1 MS	CV1001A-CS MS	132812	3.63	88305	4.72	182302	5.66
680-89421-1 MSD	CV1001A-CS MSD	154110	3.63	101315	4.72	195570	5.66

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.: 680-89421-1

SDG No.: 68089421-1

Sample No.: ICIS 660-136792/8 Date Analyzed: 04/24/2013 13:57

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

Lab File ID (Standard): 1CD24007.D Heated Purge: (Y/N) N

Calibration ID: 2916

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		216809	7.59	224587	8.74		
UPPER LIMIT		433618	8.09	449174	9.24		
LOWER LIMIT		108405	7.09	112294	8.24		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136792/15		234167	7.59	247483	8.73		
MB 660-136731/1-A		187433	7.60	213613	8.75		
LCS 660-136731/2-A		198591	7.59	222308	8.74		
680-89421-1	CV1001A-CS	202869	7.59	219190	8.73		
680-89421-1 MS	CV1001A-CS MS	228957	7.59	224834	8.74		
680-89421-1 MSD	CV1001A-CS MSD	245677	7.59	249914	8.73		

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.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV1001A-CS | Lab Sample ID: 680-89421-1

Matrix: Solid | Lab File ID: 1CD24017.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 13:10

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.06(g) | Date Analyzed: 04/24/2013 17:16

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.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	160		43	22
56-55-3	Benzo[a]anthracene	720		41	20
50-32-8	Benzo[a]pyrene	420		54	27
205-99-2	Benzo[b]fluoranthene	700		63	32
191-24-2	Benzo[g,h,i]perylene	380		100	23
207-08-9	Benzo[k]fluoranthene	130		41	19
218-01-9	Chrysene	480		47	23
53-70-3	Dibenz(a,h)anthracene	73	J	100	21
206-44-0	Fluoranthene	500	F	100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	420		100	37
90-12-0	1-Methylnaphthalene	230		210	23
91-57-6	2-Methylnaphthalene	470		210	37
91-20-3	Naphthalene	300		210	23
85-01-8	Phenanthrene	540	F	41	20
129-00-0	Pyrene	590		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24017.D
Lab Smp Id: 680-89421-A-1-A Client Smp ID: CV1001A-CS
Inj Date : 24-APR-2013 17:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-1-a
Misc Info : 680-89421-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.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	15.060	Weight Extracted
M	22.989	% 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	3.633	3.634	(1.000)	151382	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	95485	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.663	(1.000)	164736	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	2991	1.25053	431.2936
* 18 Chrysene-d12	240	7.586	7.592	(1.000)	202869	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	219190	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	3483	0.87354	301.2758(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	2301	1.37154	473.0303(Q)
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	1491	0.65872	227.1848
11 Phenanthrene	178	5.674	5.675	(1.002)	7064	1.56611	540.1358
12 Anthracene	178	5.710	5.710	(1.008)	1656	0.47607	164.1919
13 Carbazole	167	5.821	5.822	(1.028)	1052	0.23204	80.0279
15 Fluoranthene	202	6.504	6.504	(1.149)	7963	1.43659	495.4652
16 Pyrene	202	6.668	6.675	(0.879)	10252	1.71111	590.1443

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	11318	2.08919	720.5372(M)
19 Chrysene	228	7.609	7.610	(1.003)	8021	1.38459	477.5311(M)
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.963)	12226	2.01679	695.5675(M)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.965)	2268	0.38451	132.6124(QMH)
22 Benzo(a)pyrene	252	8.686	8.686	(0.995)	6003	1.21968	420.6533
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.126)	3657	1.21832	420.1870(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	1131	0.21279	73.3896(MH)
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.163)	6139	1.10923	382.5606(M)

QC Flag Legend

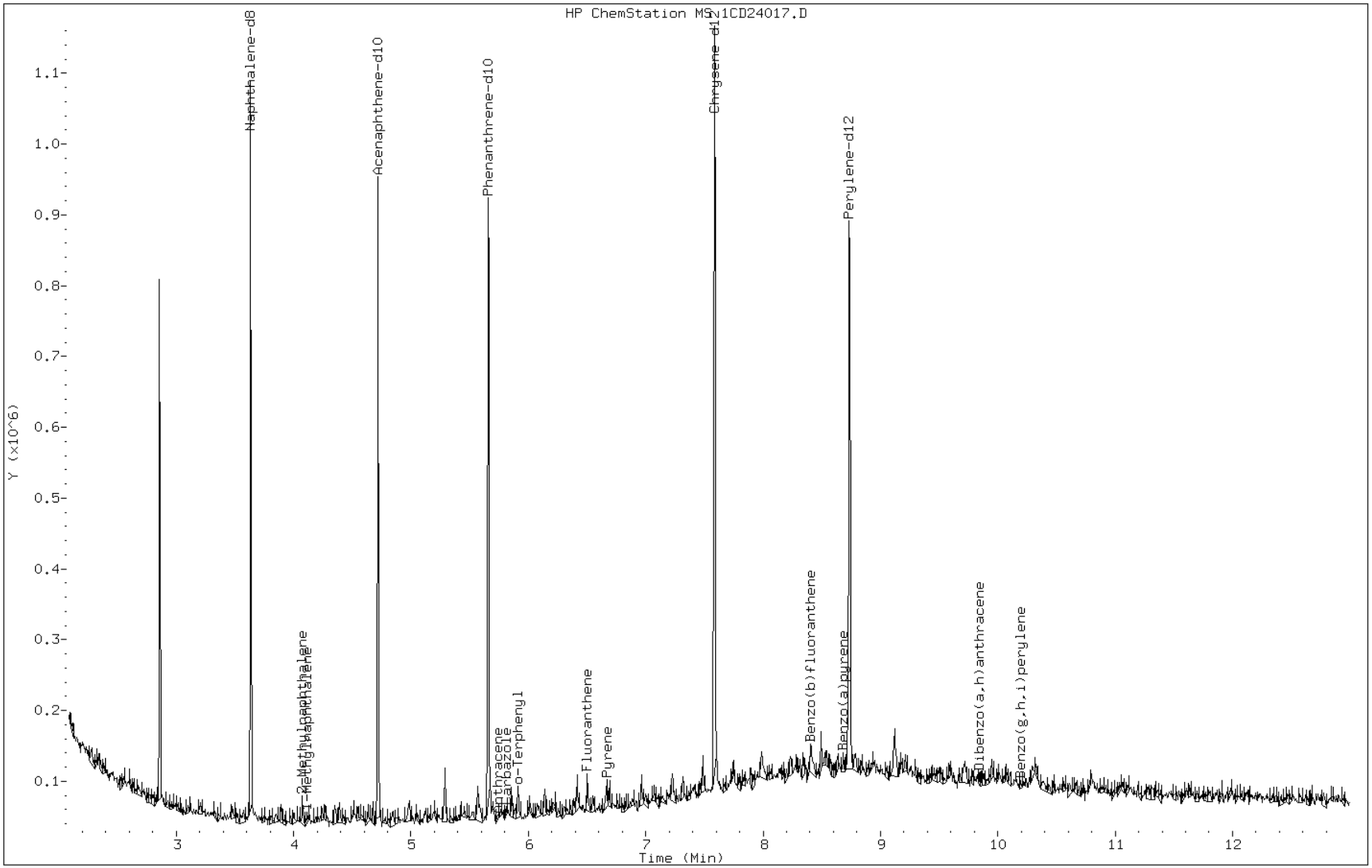
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC



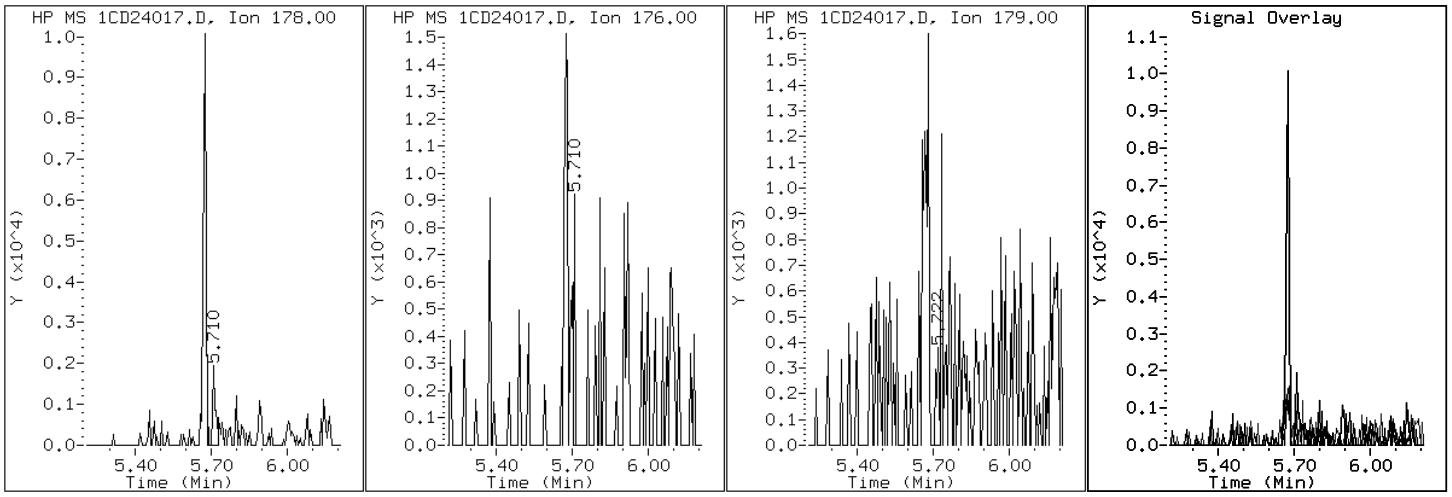
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

12 Anthracene



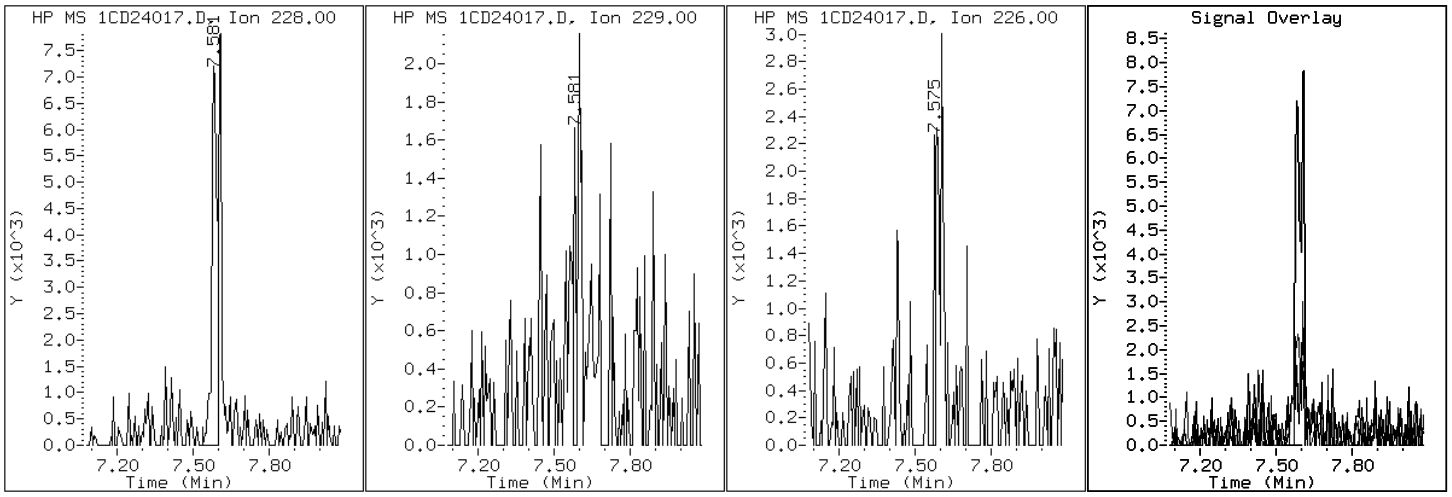
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

17 Benzo(a)anthracene



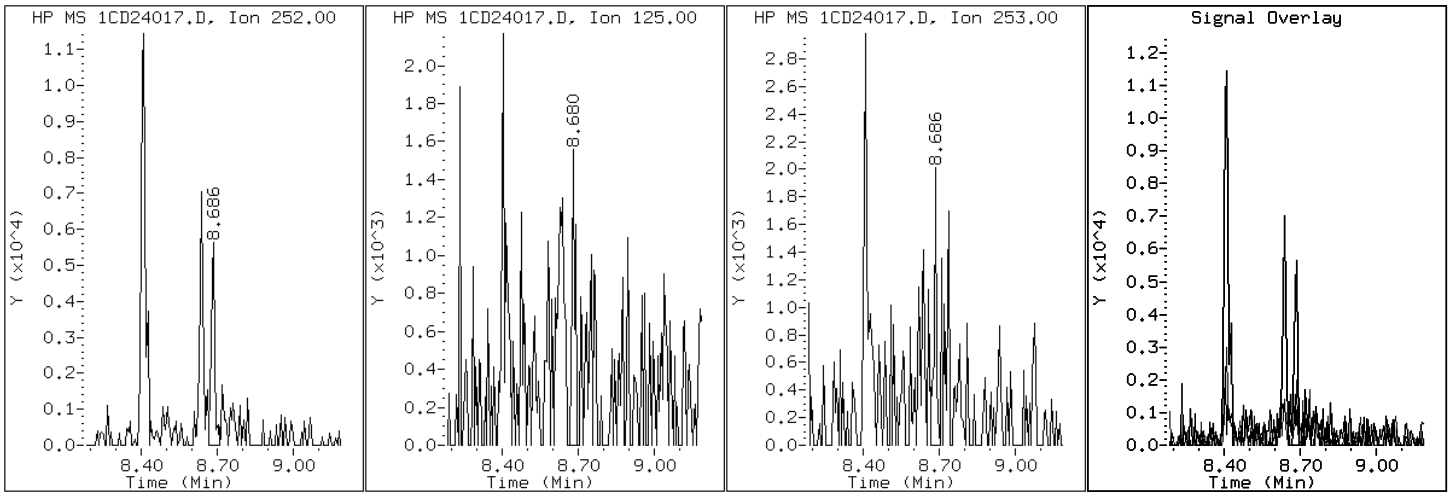
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

22 Benzo(a)pyrene



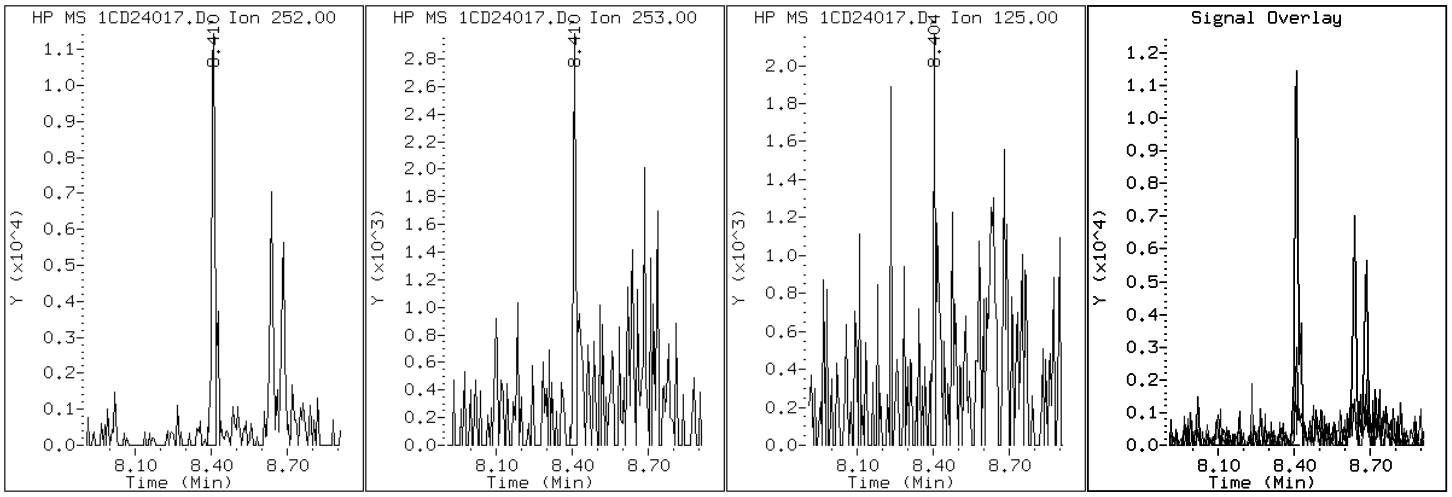
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



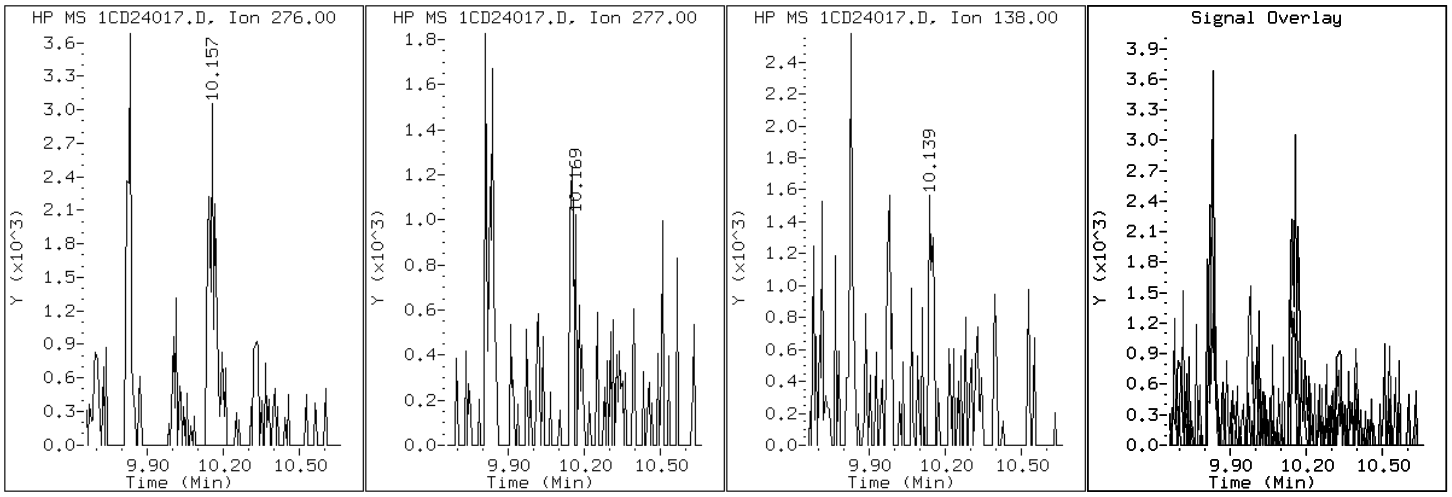
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



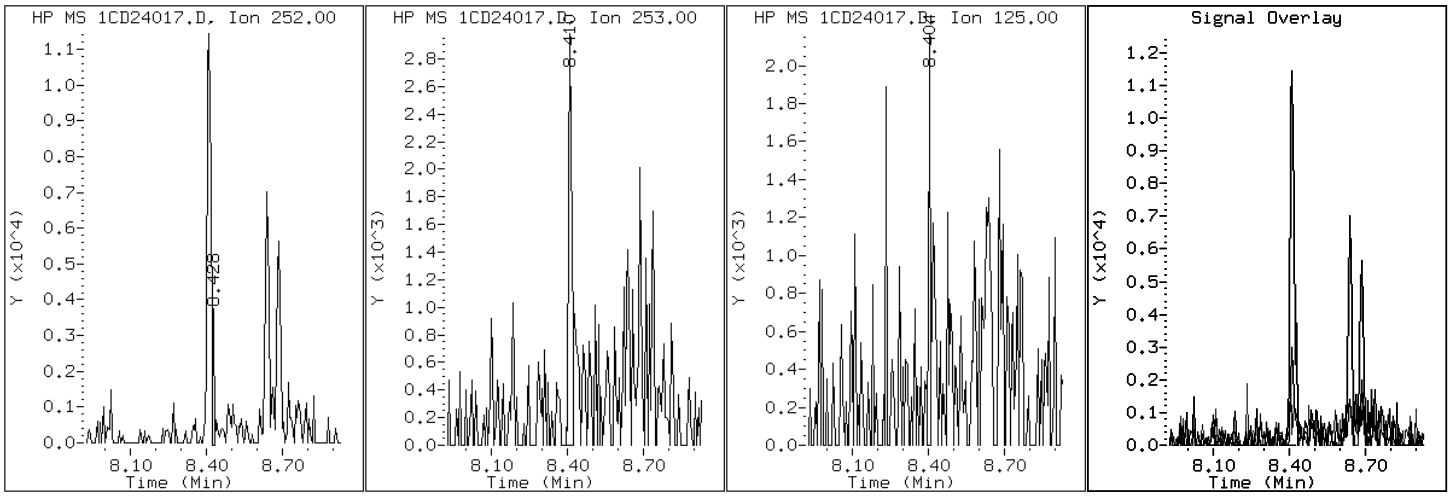
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



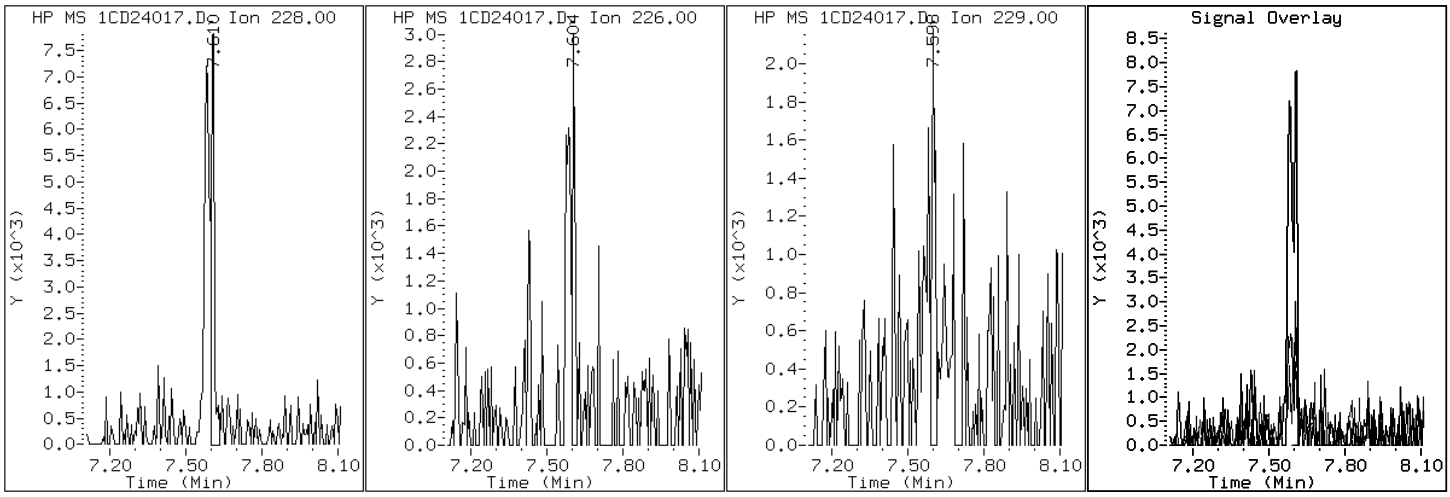
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

19 Chrysene



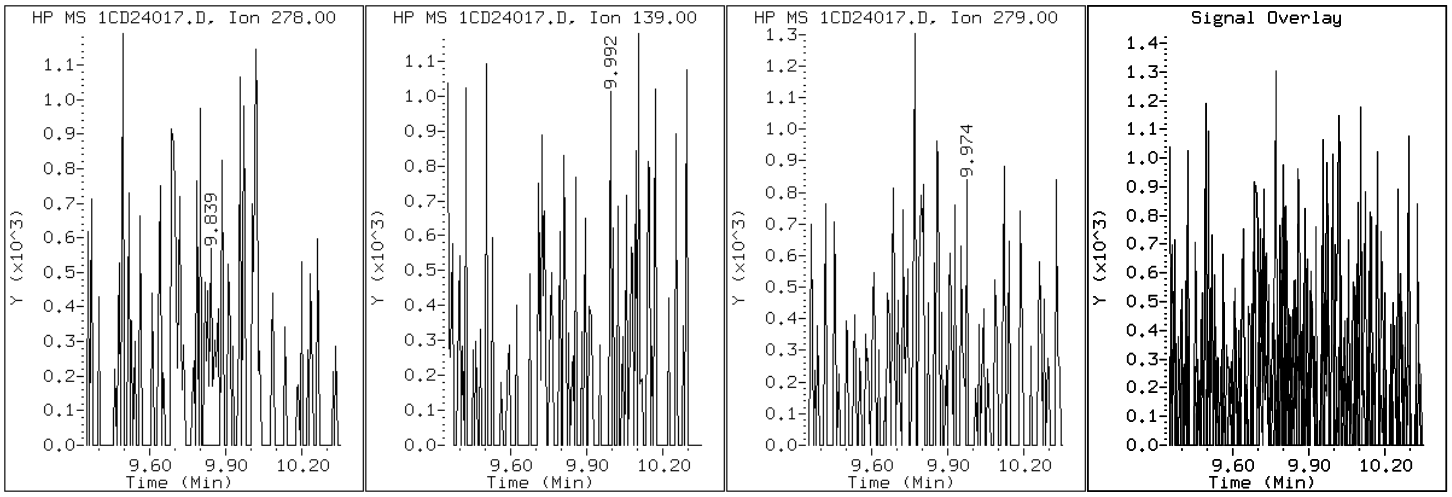
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



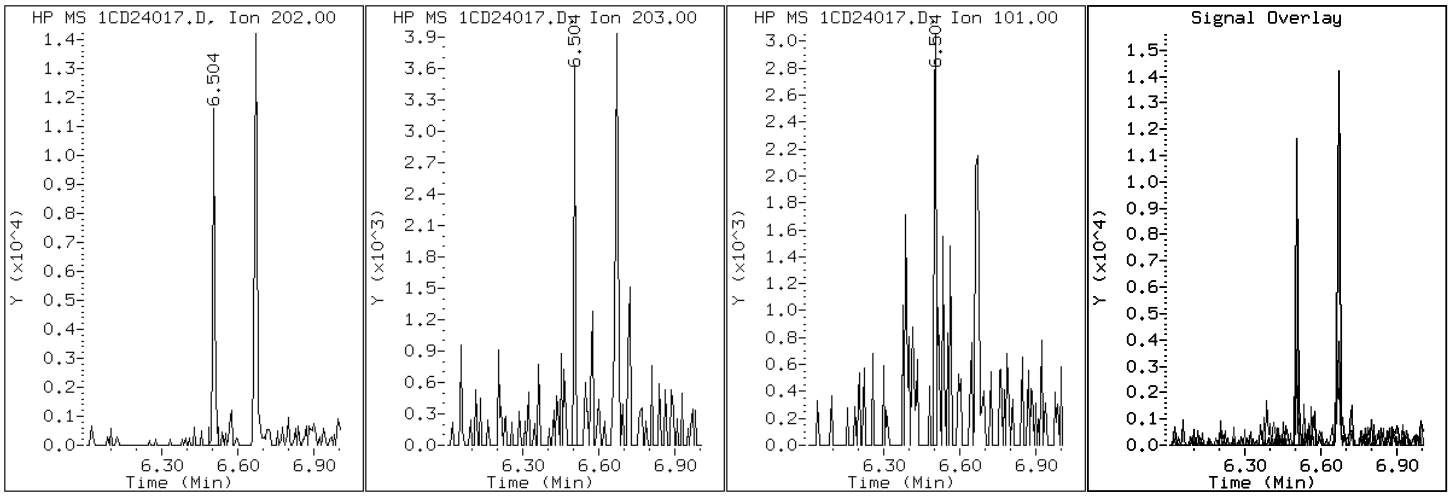
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

15 Fluoranthene



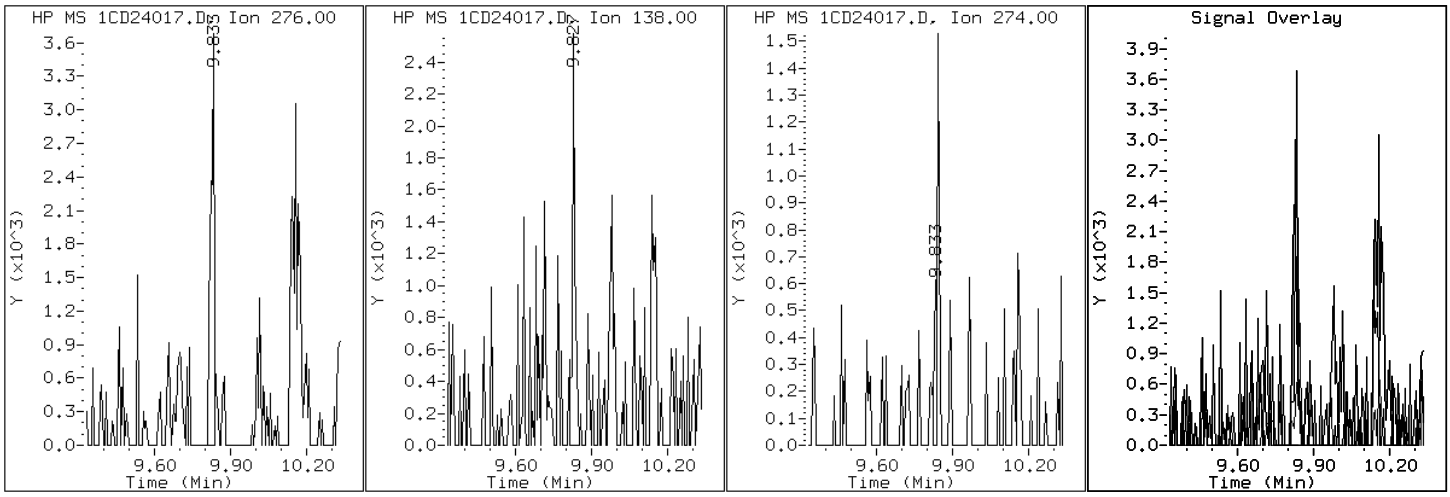
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

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



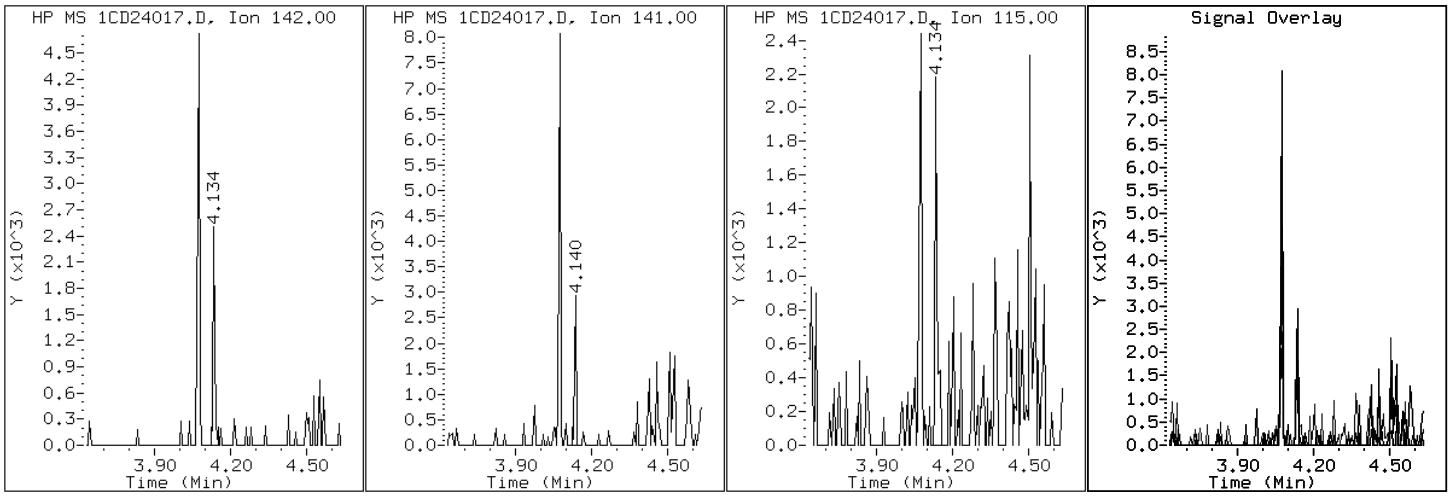
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

4 1-Methylnaphthalene



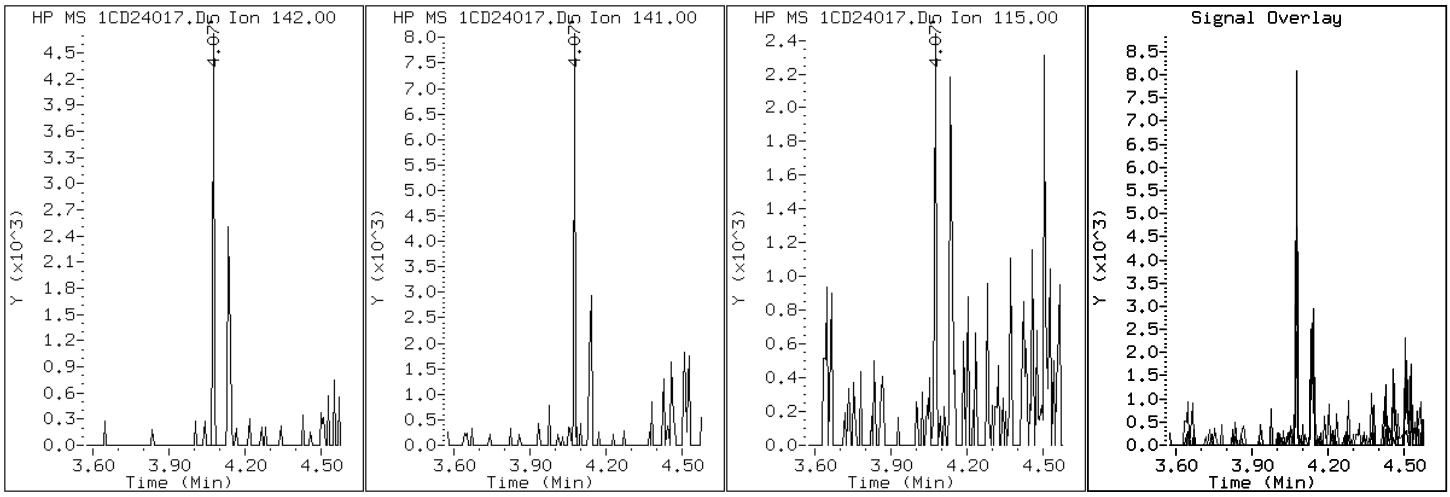
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

3 2-Methylnaphthalene



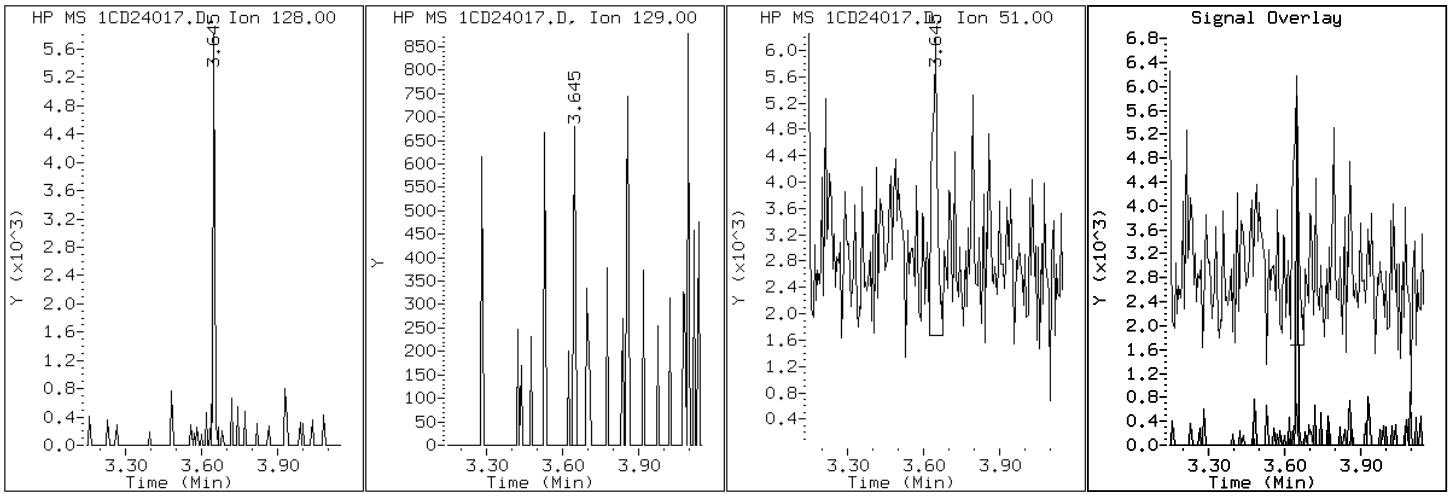
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

2 Naphthalene



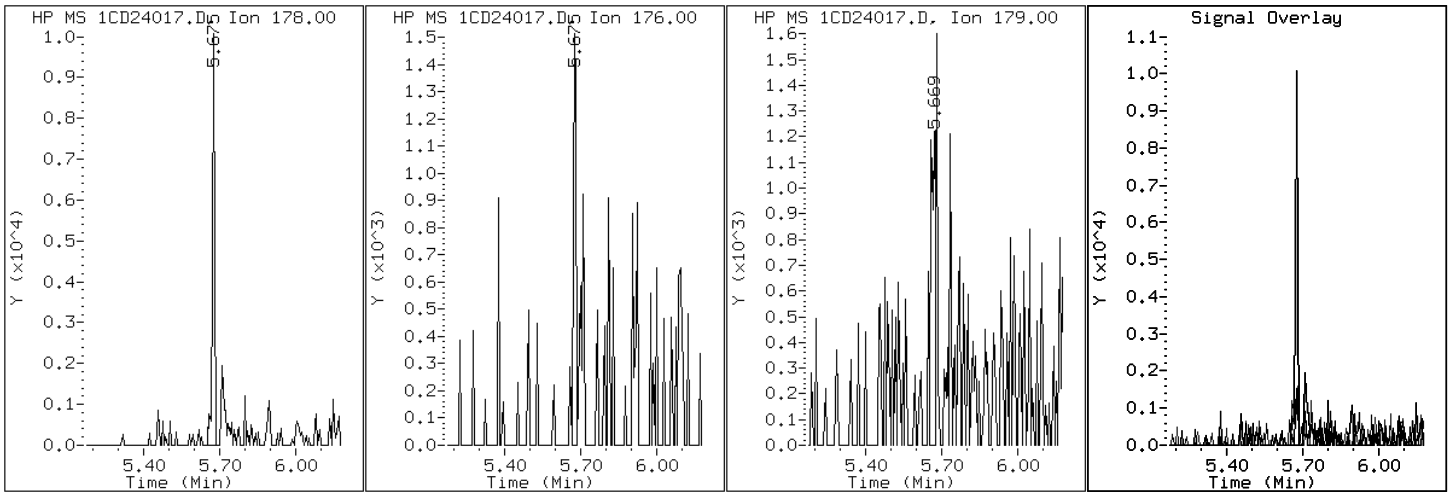
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

11 Phenanthrene



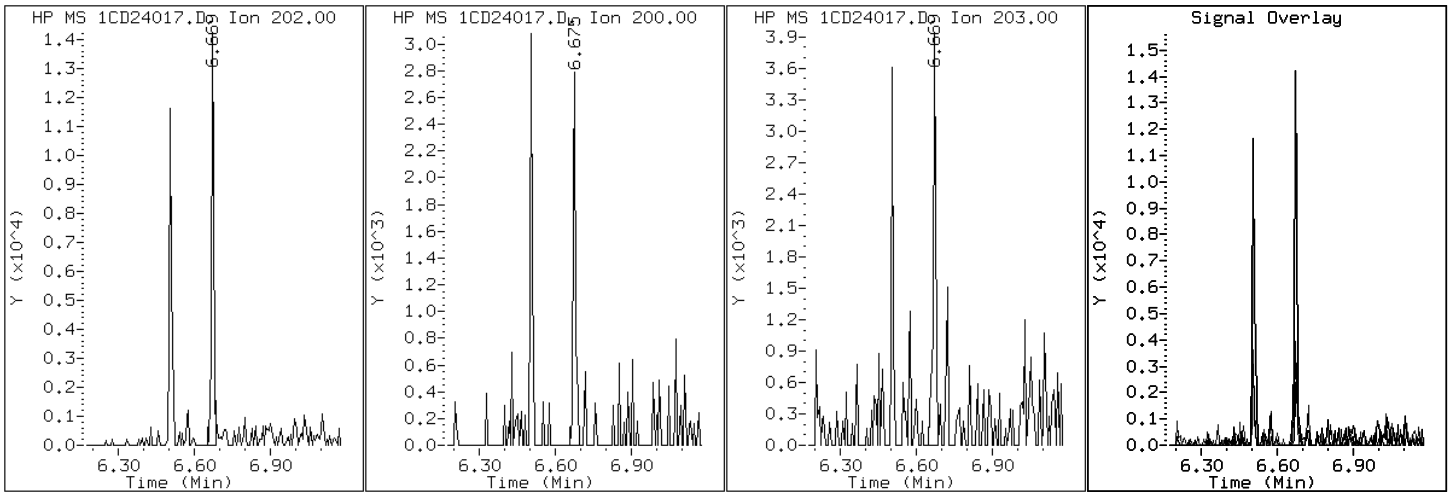
Data File: 1CD24017.D

Date: 24-APR-2013 17:16

Client ID: CV1001A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 04/25/2013

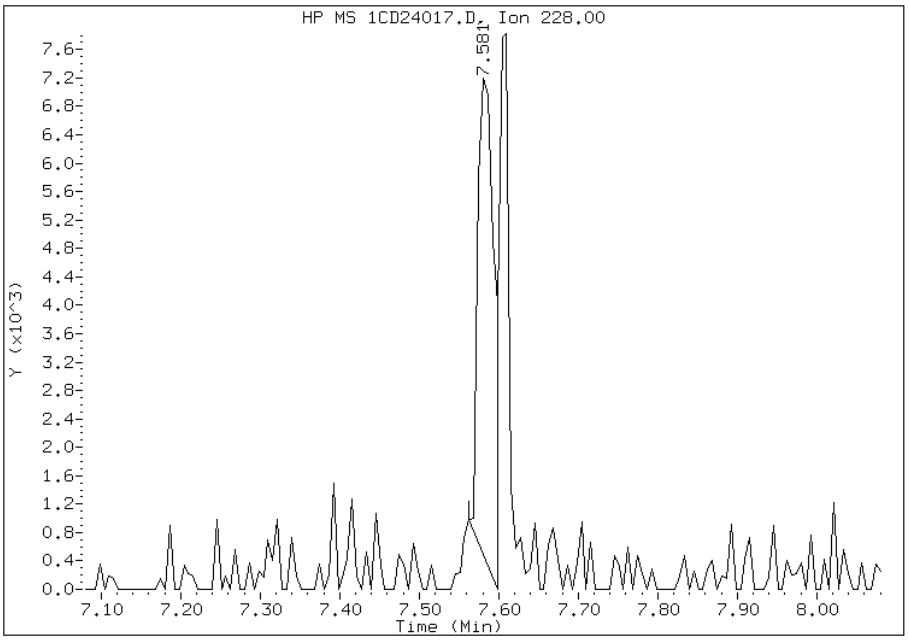
Processing Integration Results

RT: 7.58

Response: 9681

Amount: 2

Conc: 611



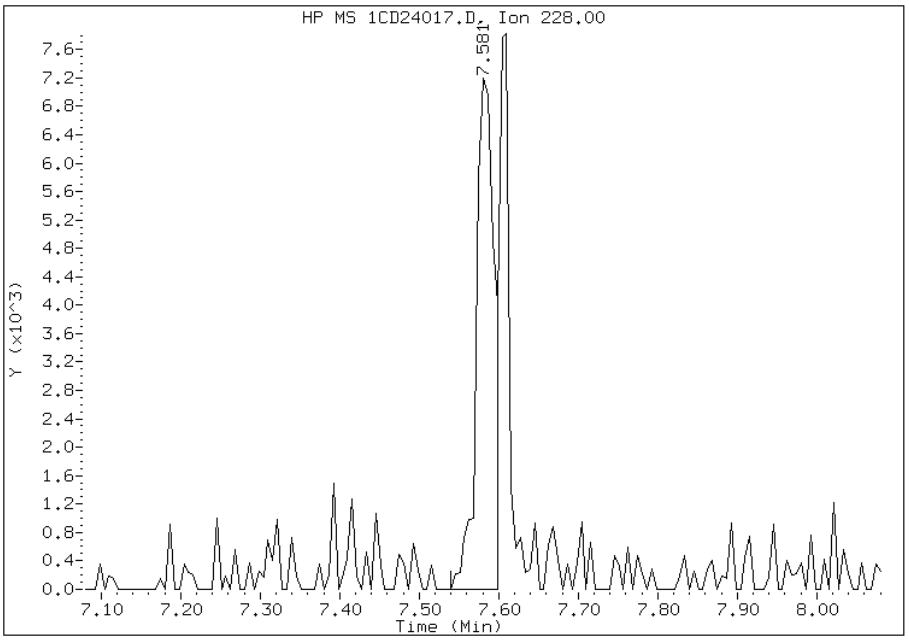
Manual Integration Results

RT: 7.58

Response: 11318

Amount: 2

Conc: 721



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

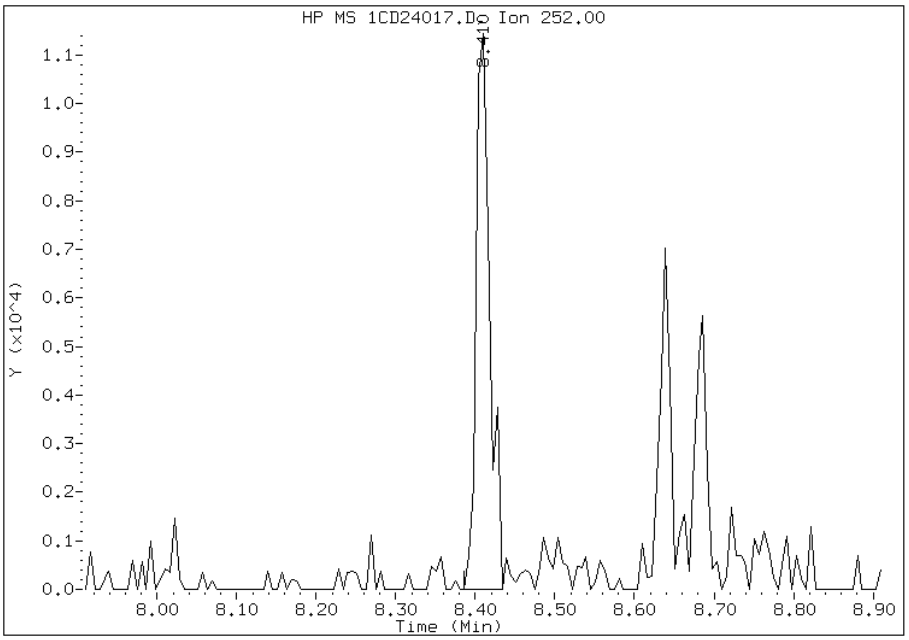
Processing Integration Results

RT: 8.41

Response: 13546

Amount: 2

Conc: 771



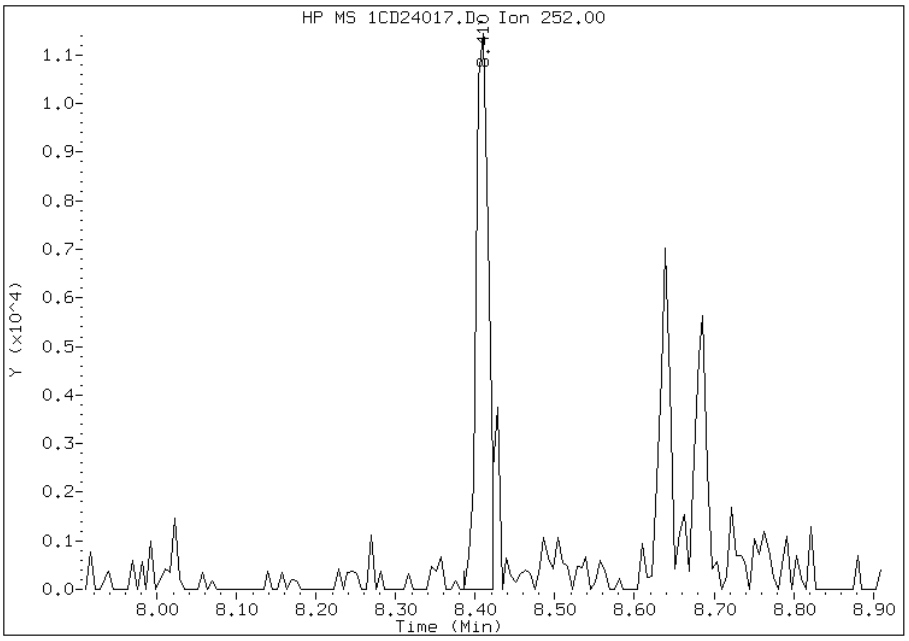
Manual Integration Results

RT: 8.41

Response: 12226

Amount: 2

Conc: 696



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

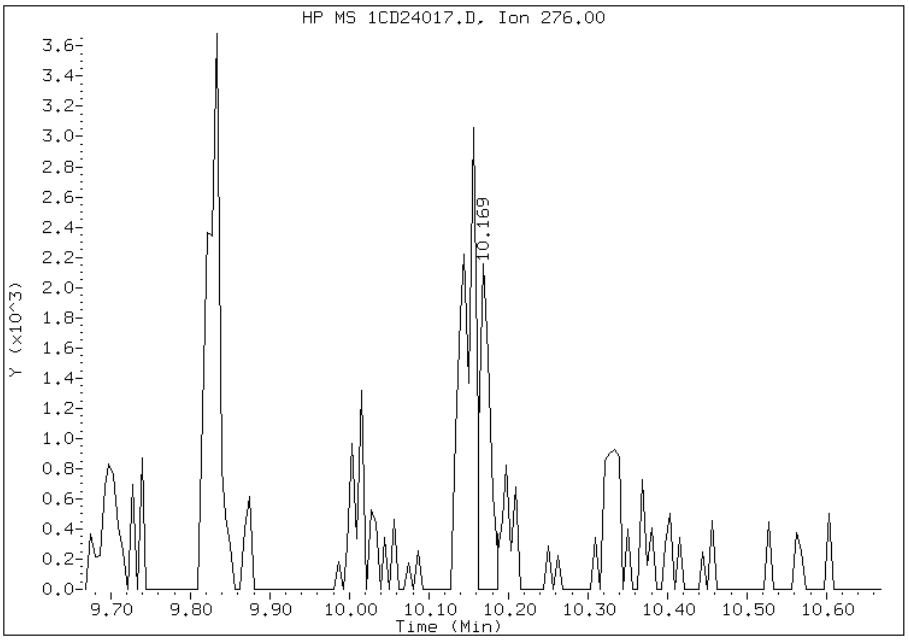
Processing Integration Results

RT: 10.17

Response: 1982

Amount: 0

Conc: 124



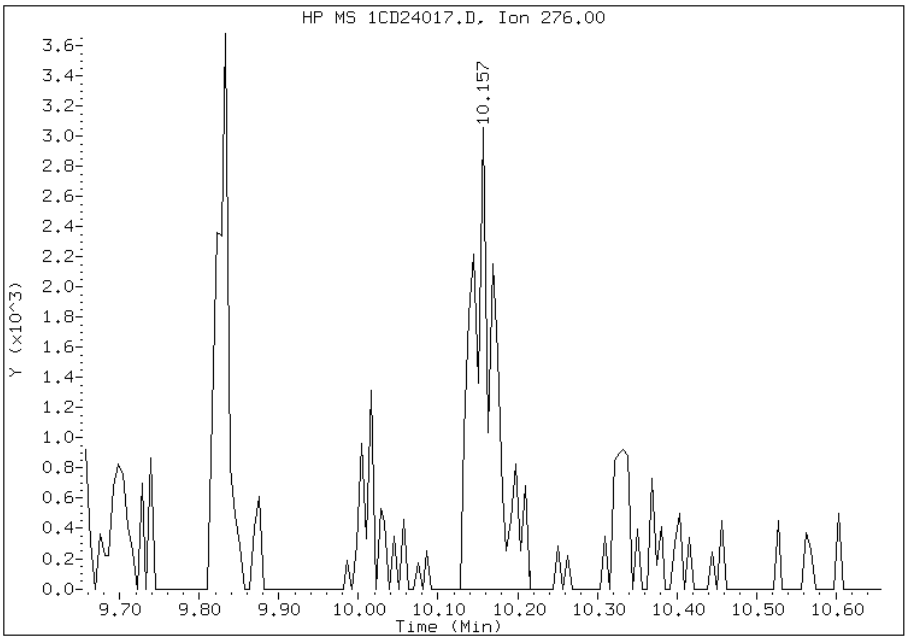
Manual Integration Results

RT: 10.16

Response: 6139

Amount: 1

Conc: 383



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

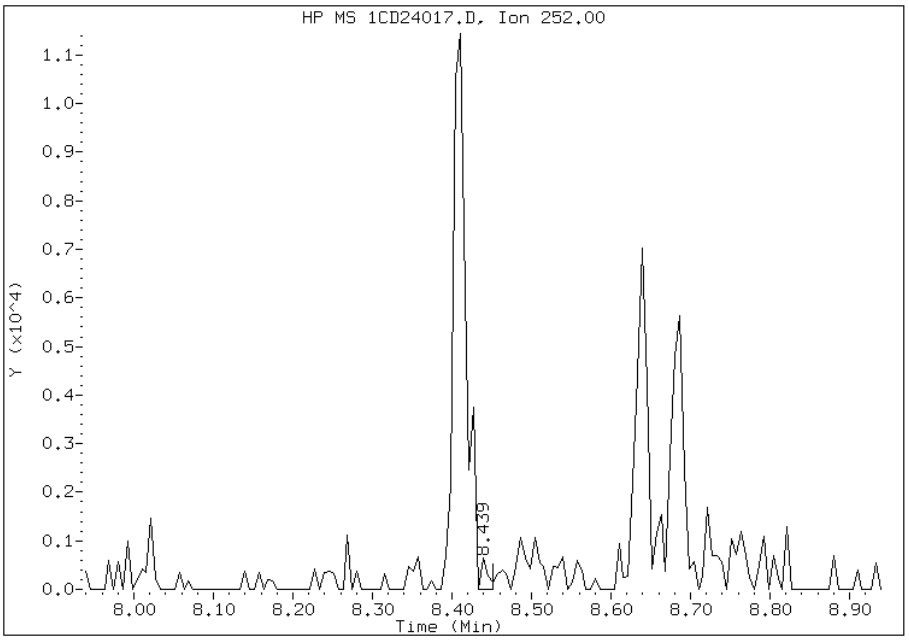
Processing Integration Results

RT: 8.44

Response: 380

Amount: 0

Conc: 22



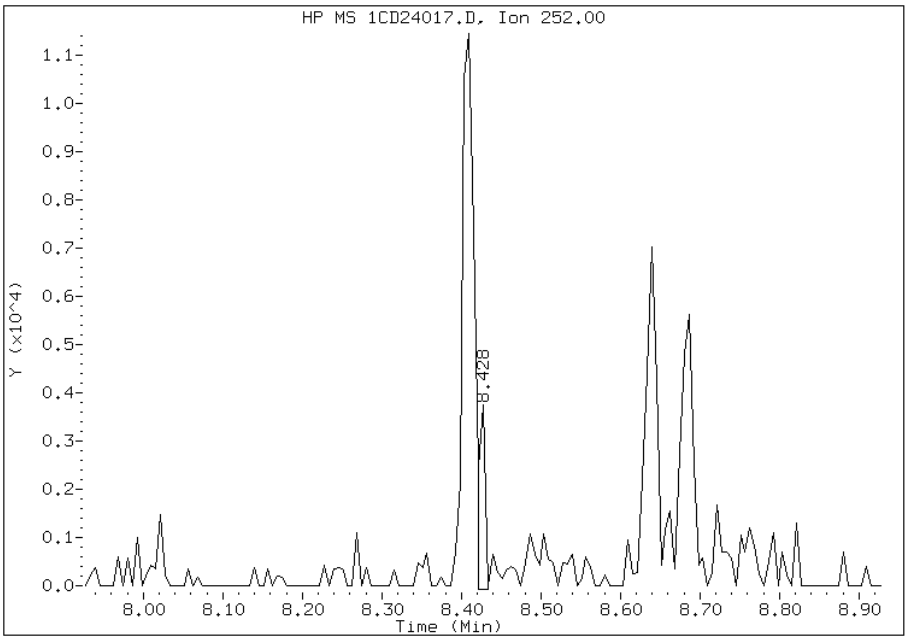
Manual Integration Results

RT: 8.43

Response: 2268

Amount: 0

Conc: 133



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/25/2013

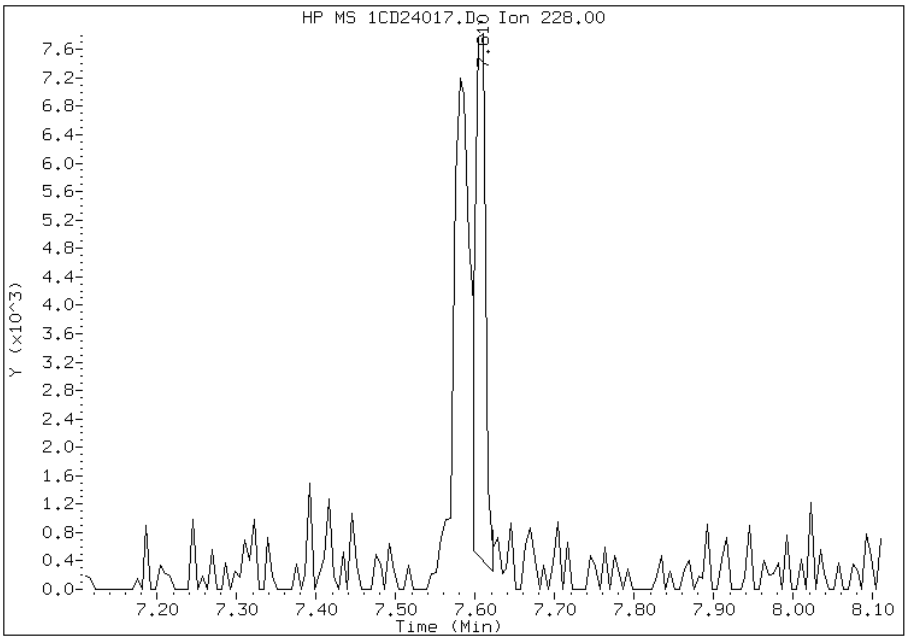
Processing Integration Results

RT: 7.61

Response: 6927

Amount: 1

Conc: 412



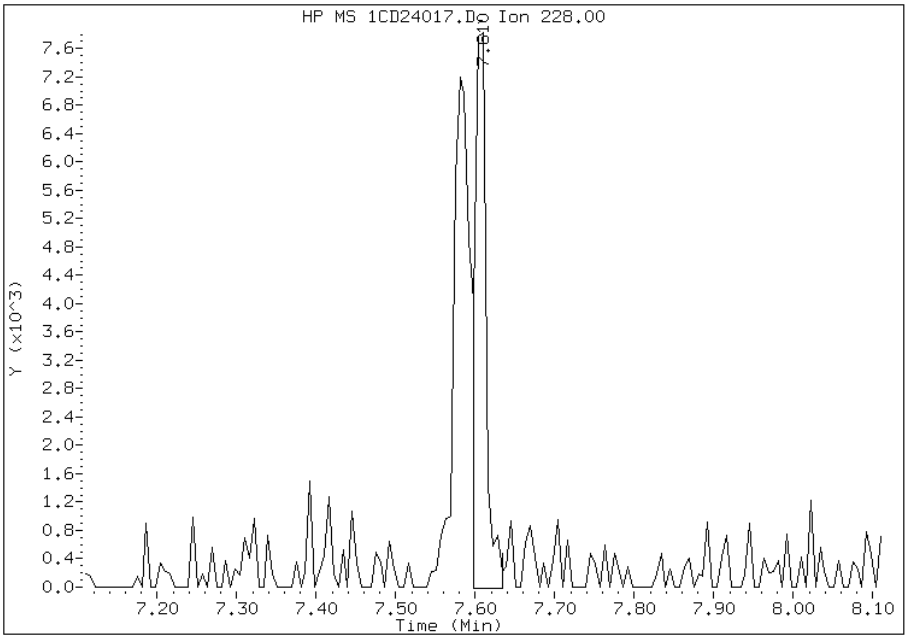
Manual Integration Results

RT: 7.61

Response: 8021

Amount: 1

Conc: 478



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

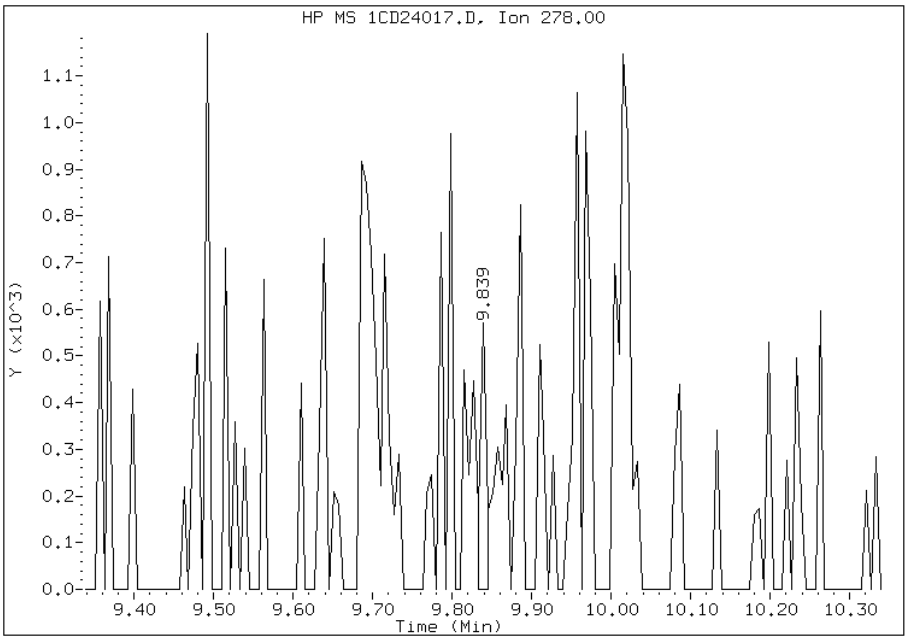
Processing Integration Results

RT: 9.84

Response: 321

Amount: 0

Conc: 21



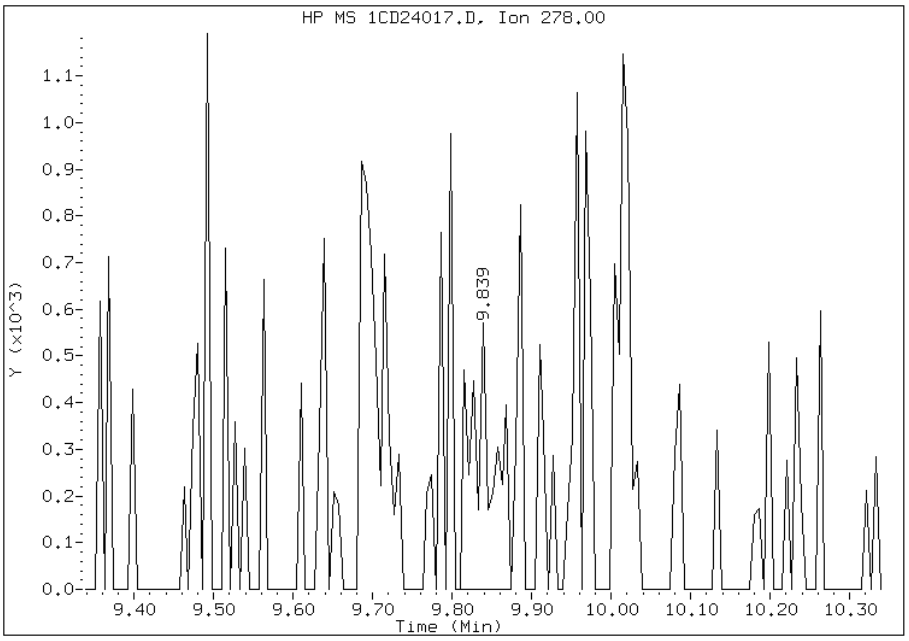
Manual Integration Results

RT: 9.84

Response: 1131

Amount: 0

Conc: 73



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24017.D
Inj. Date and Time: 24-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID: CV1001A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

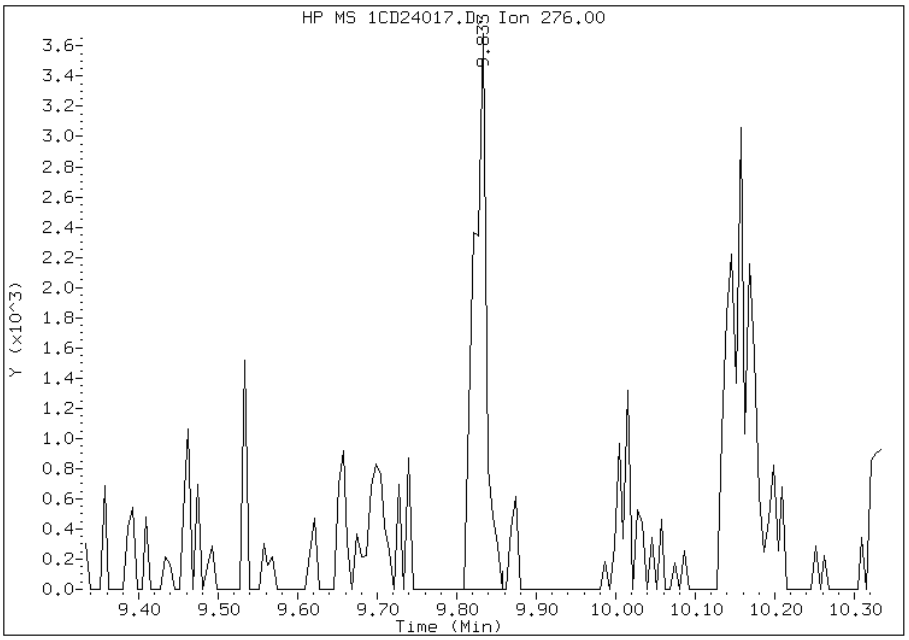
Processing Integration Results

RT: 9.83

Response: 3931

Amount: 1

Conc: 436



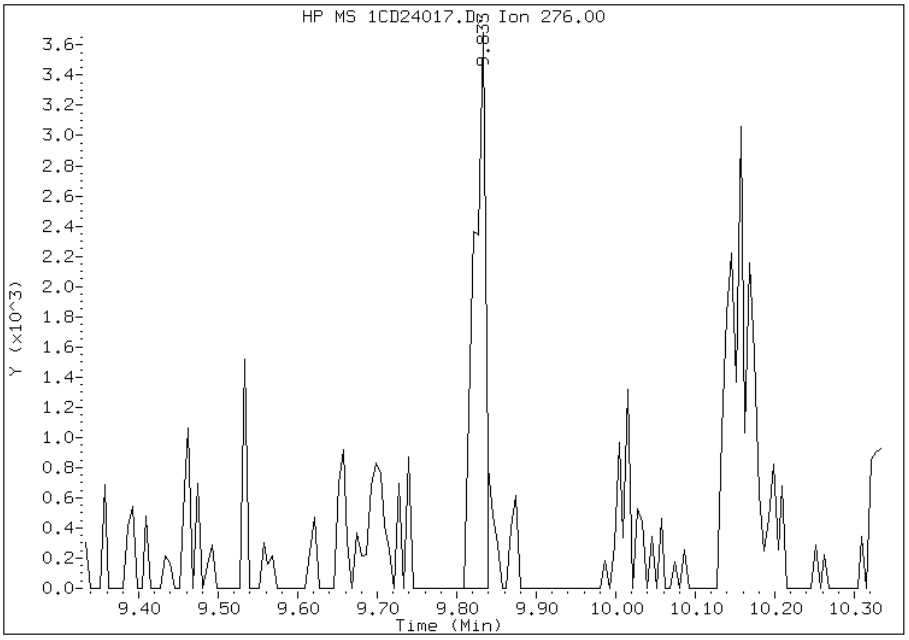
Manual Integration Results

RT: 9.83

Response: 3657

Amount: 1

Conc: 420



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV1082A-CS | Lab Sample ID: 680-89421-2

Matrix: Solid | Lab File ID: 1CD22019.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 12:45

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.01(g) | Date Analyzed: 04/22/2013 17:28

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

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

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	52		52	6.5
120-12-7	Anthracene	29		11	5.4
56-55-3	Benzo[a]anthracene	120		10	5.0
50-32-8	Benzo[a]pyrene	100		13	6.7
205-99-2	Benzo[b]fluoranthene	180		16	7.9
191-24-2	Benzo[g,h,i]perylene	84		26	5.7
207-08-9	Benzo[k]fluoranthene	58		10	4.6
218-01-9	Chrysene	130		12	5.8
53-70-3	Dibenz(a,h)anthracene	88		26	5.3
206-44-0	Fluoranthene	150		26	5.2
86-73-7	Fluorene	12	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		26	9.2
90-12-0	1-Methylnaphthalene	33	J	52	5.7
91-57-6	2-Methylnaphthalene	66		52	9.2
91-20-3	Naphthalene	28	J	52	5.7
85-01-8	Phenanthrene	100		10	5.0
129-00-0	Pyrene	130		26	4.8

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\1C042213.b\1CD22019.D
Lab Smp Id: 680-89421-A-2-A Client Smp ID: CV1082A-CS
Inj Date : 22-APR-2013 17:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-2-a
Misc Info : 680-89421-A-2-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	15.010	Weight Extracted
M	22.622	% 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	3.651	3.651	(1.000)	189359	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	121435	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	234959	40.0000	
$	14 o-Terphenyl	230	5.927	5.933	(1.043)	22967	6.59252	567.6110
*	18 Chrysene-d12	240	7.610	7.615	(1.000)	318610	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	302752	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	1692	0.33055	28.4605(Q)
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	1684	0.76463	65.8343
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	1254	0.38353	33.0218
	5 Acenaphthylene	152	4.651	4.651	(0.981)	3107	0.60381	51.9876
	9 Fluorene	166	5.074	5.080	(1.071)	556	0.14089	12.1308(Q)
	11 Phenanthrene	178	5.692	5.698	(1.002)	8059	1.17480	101.1492
	12 Anthracene	178	5.733	5.733	(1.009)	2272	0.33308	28.6782
	13 Carbazole	167	5.839	5.839	(1.028)	1348	0.21219	18.2692

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.527	6.527	(1.149)	13093	1.71776	147.8981
16 Pyrene	202	6.692	6.692	(0.879)	14126	1.55845	134.1815
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	13045	1.44789	124.6621
19 Chrysene	228	7.633	7.633	(1.003)	13436	1.50749	129.7940
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	15746	2.05918	177.2936(M)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	5798	0.67008	57.6933(MH)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	9355	1.18353	101.9010
24 Indeno(1,2,3-cd)pyrene	276	9.862	9.874	(1.126)	5097	1.28848	110.9371(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	4466	1.02309	88.0873(M)
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	7212	0.97344	83.8126(M)

QC Flag Legend

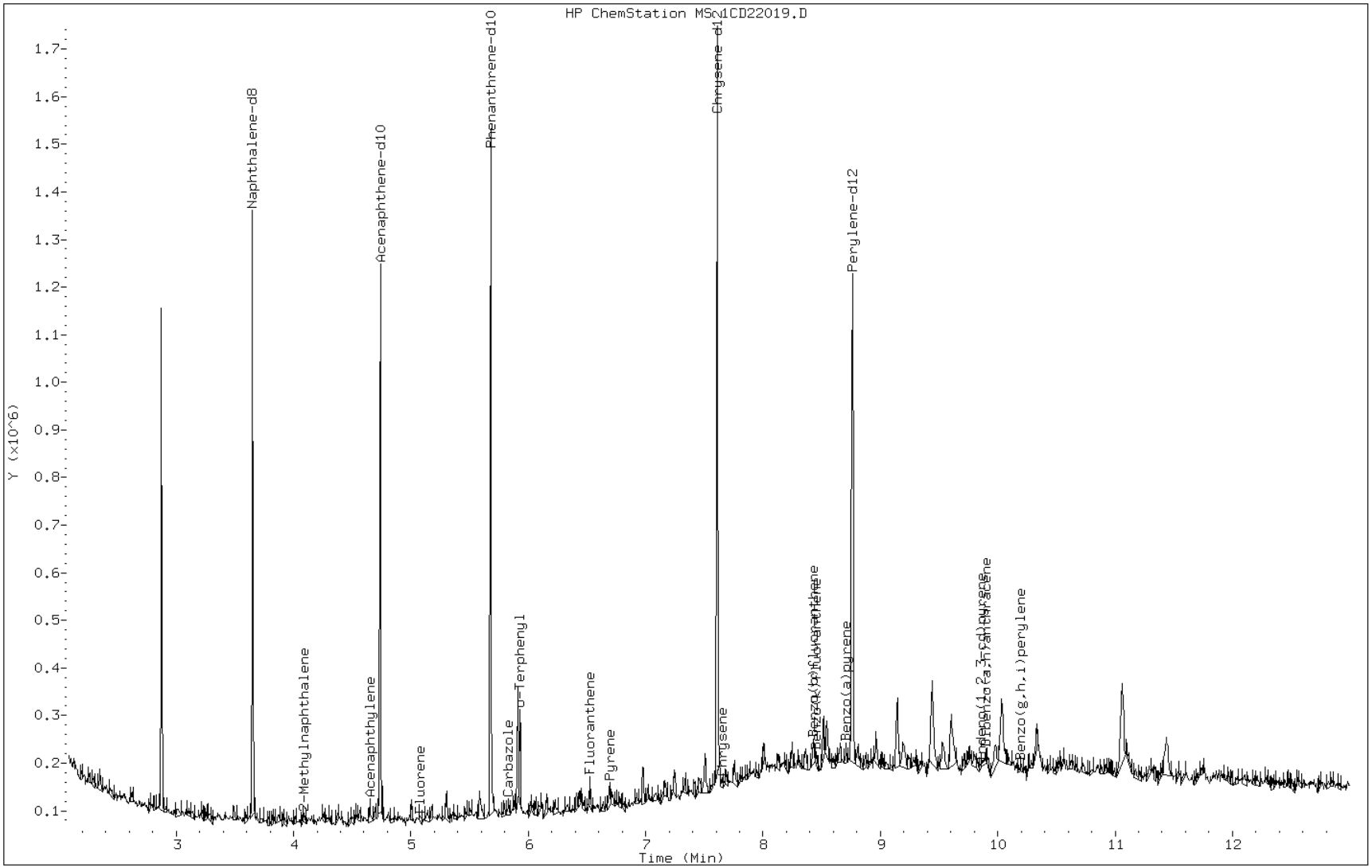
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC



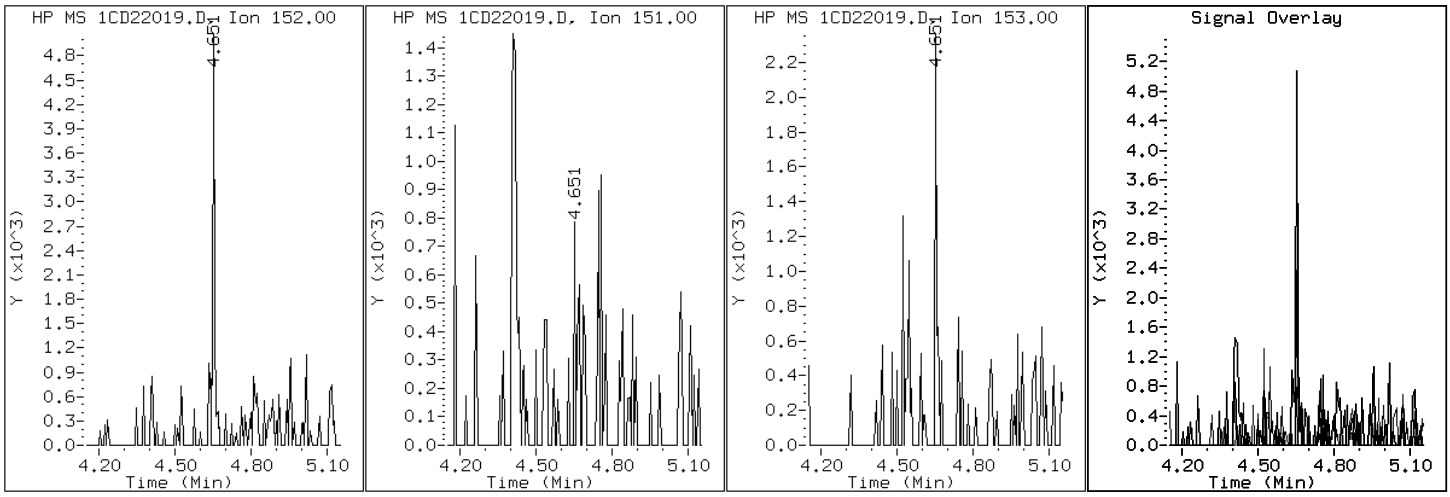
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

5 Acenaphthylene



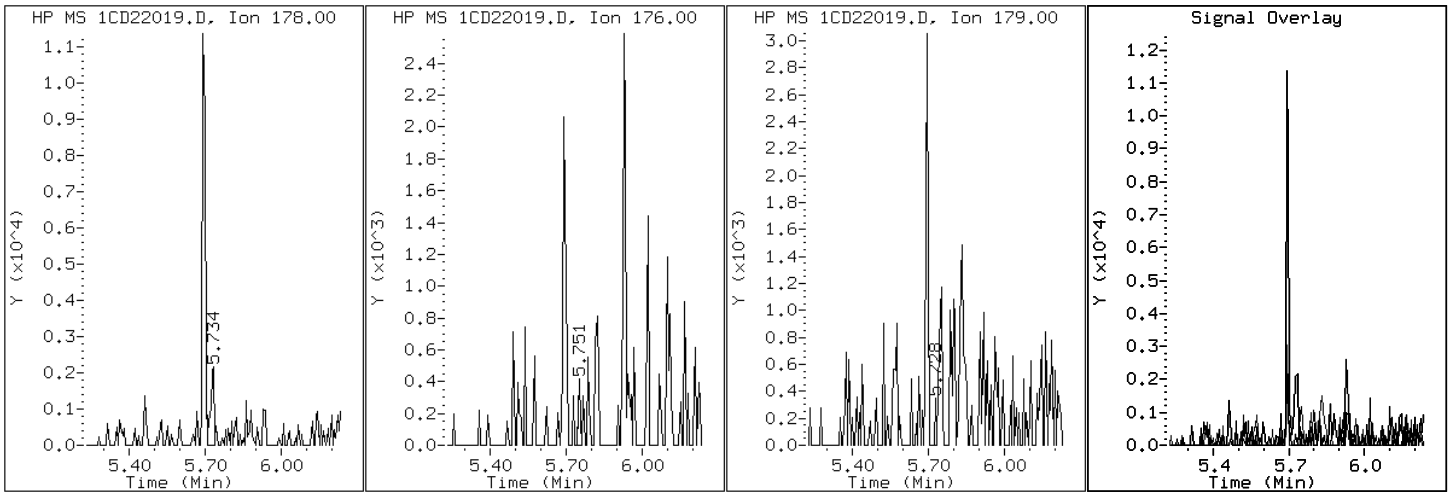
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

12 Anthracene



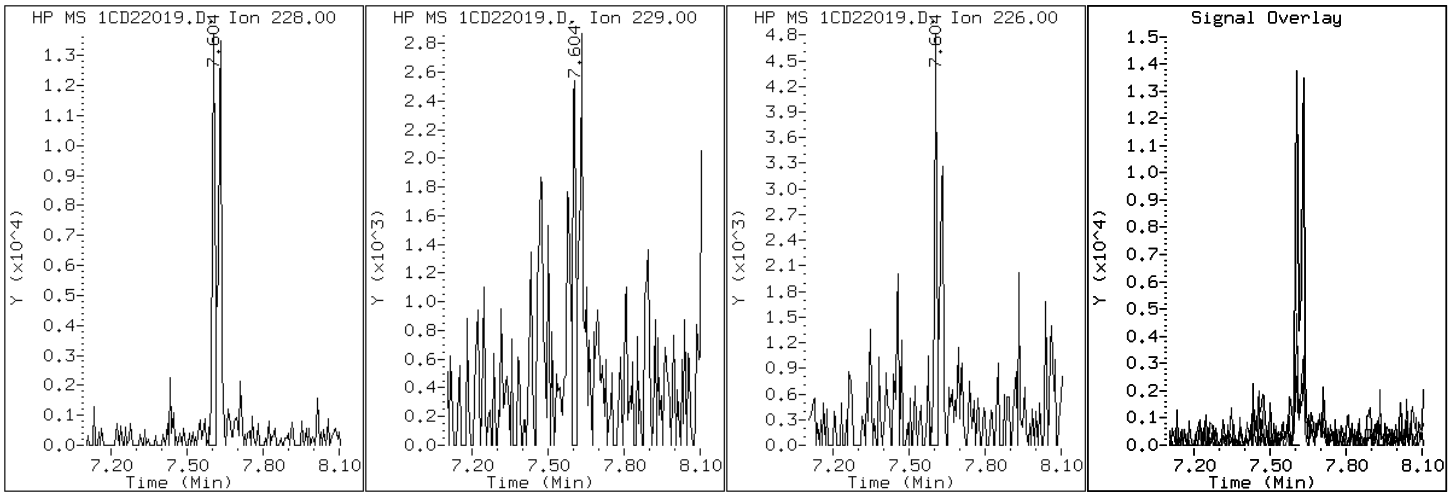
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

17 Benzo(a)anthracene



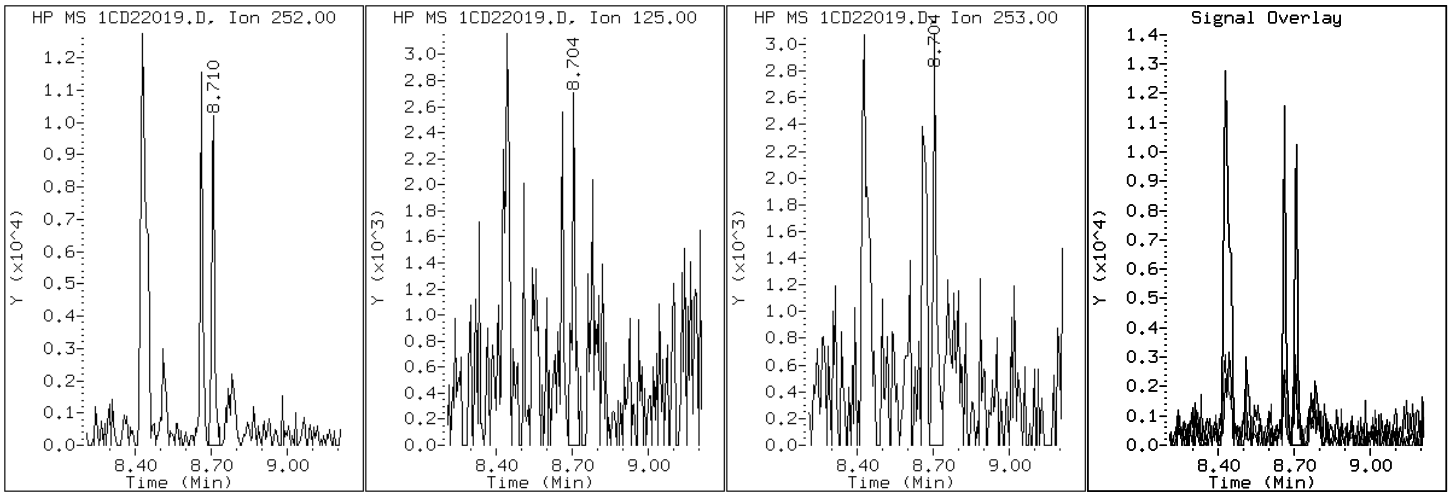
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

22 Benzo(a)pyrene



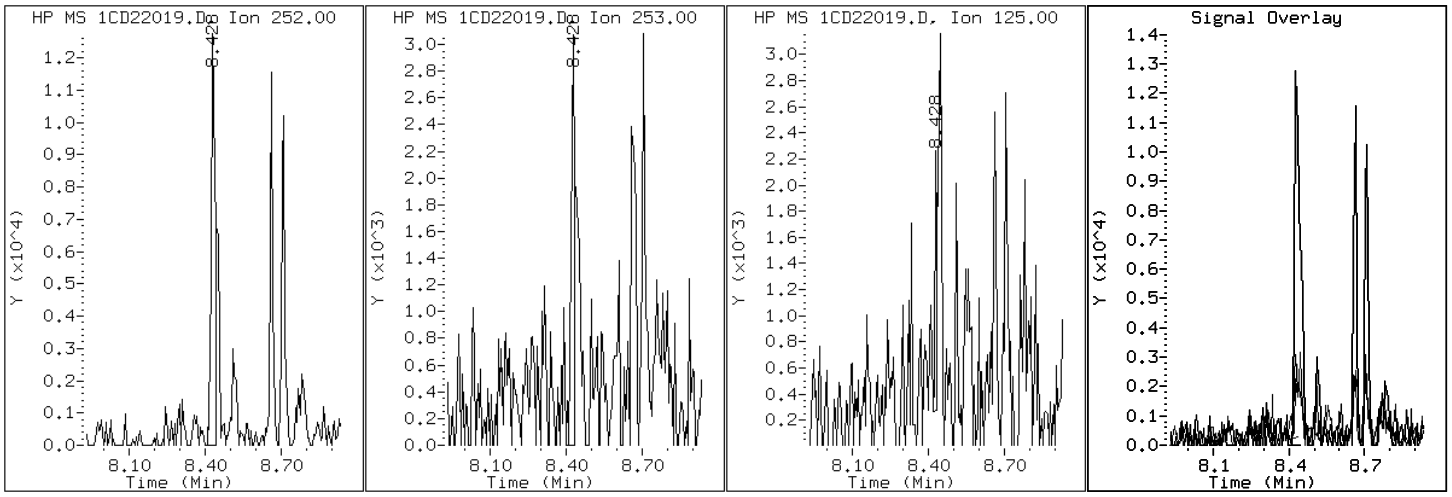
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



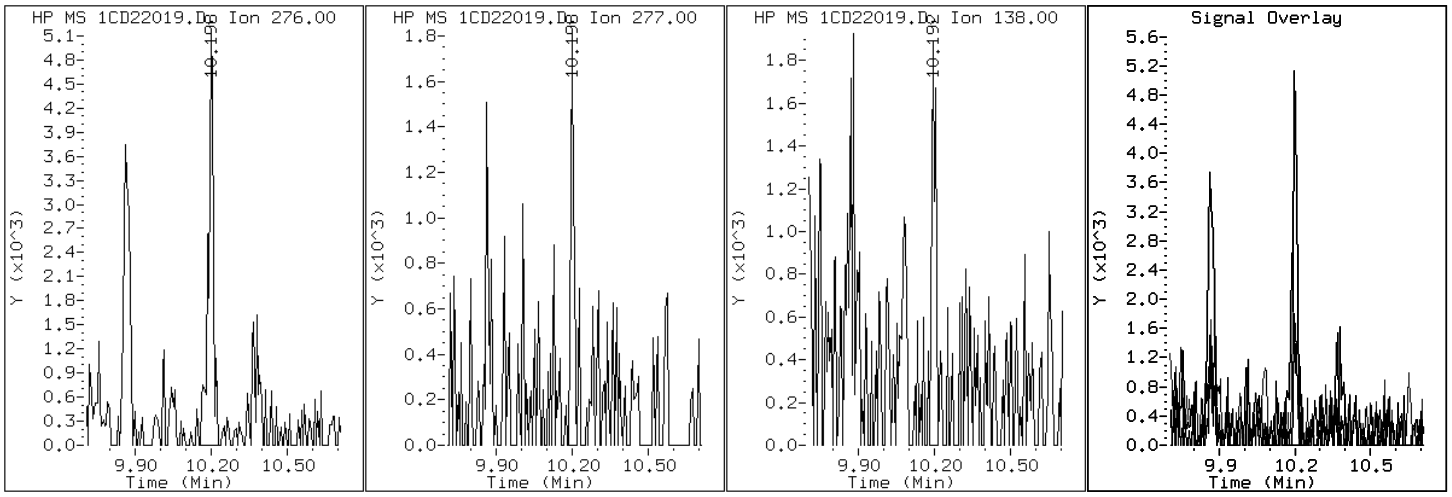
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



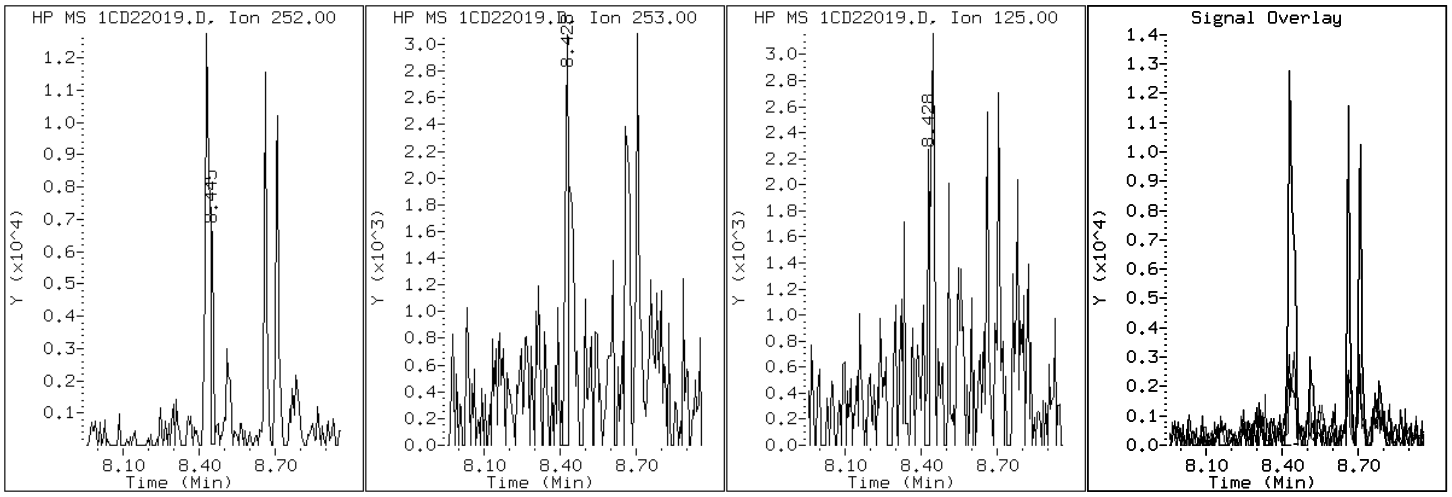
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



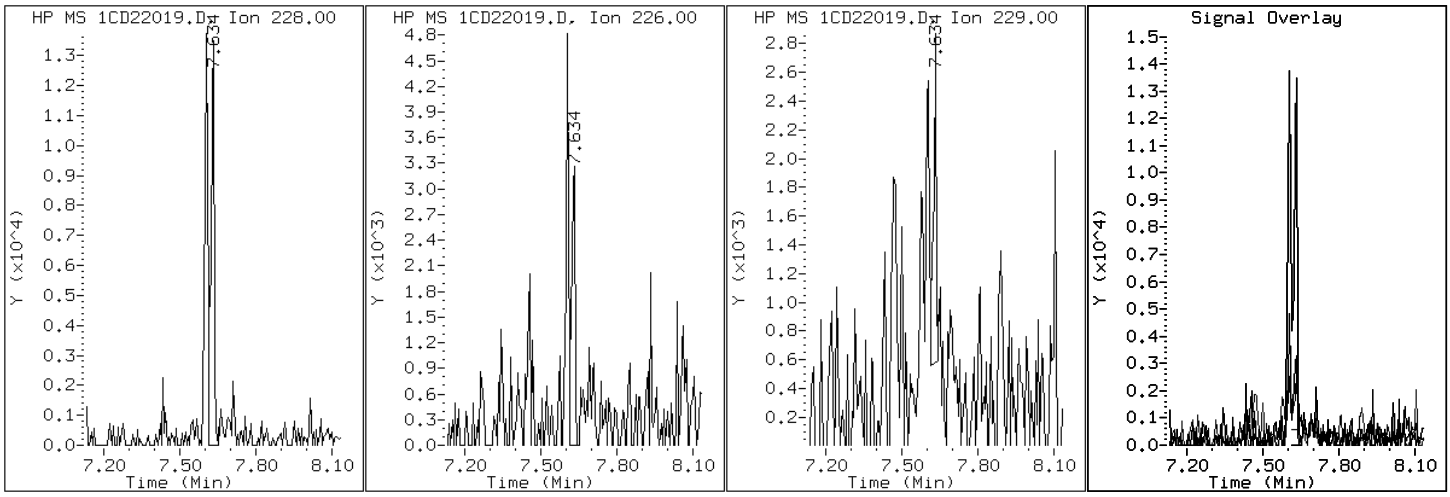
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

19 Chrysene



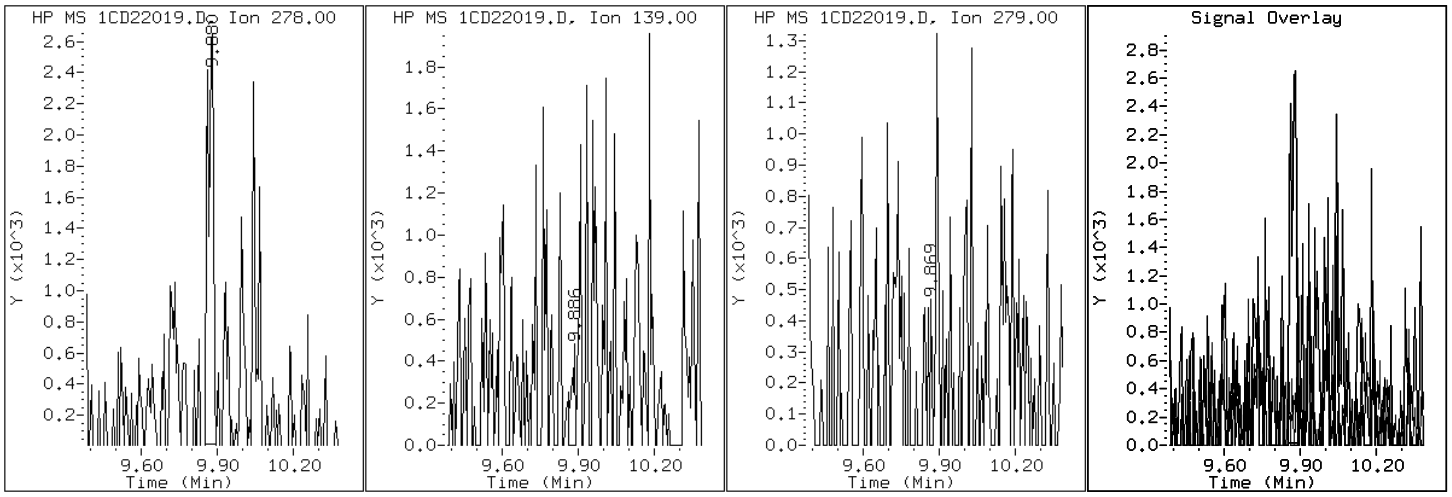
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



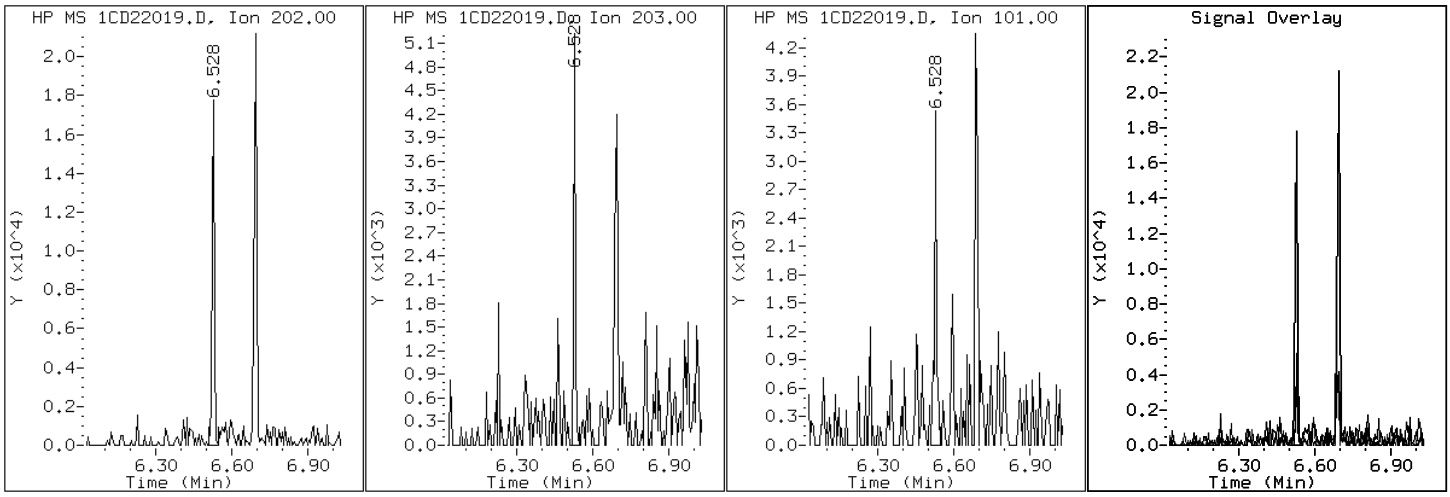
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

15 Fluoranthene



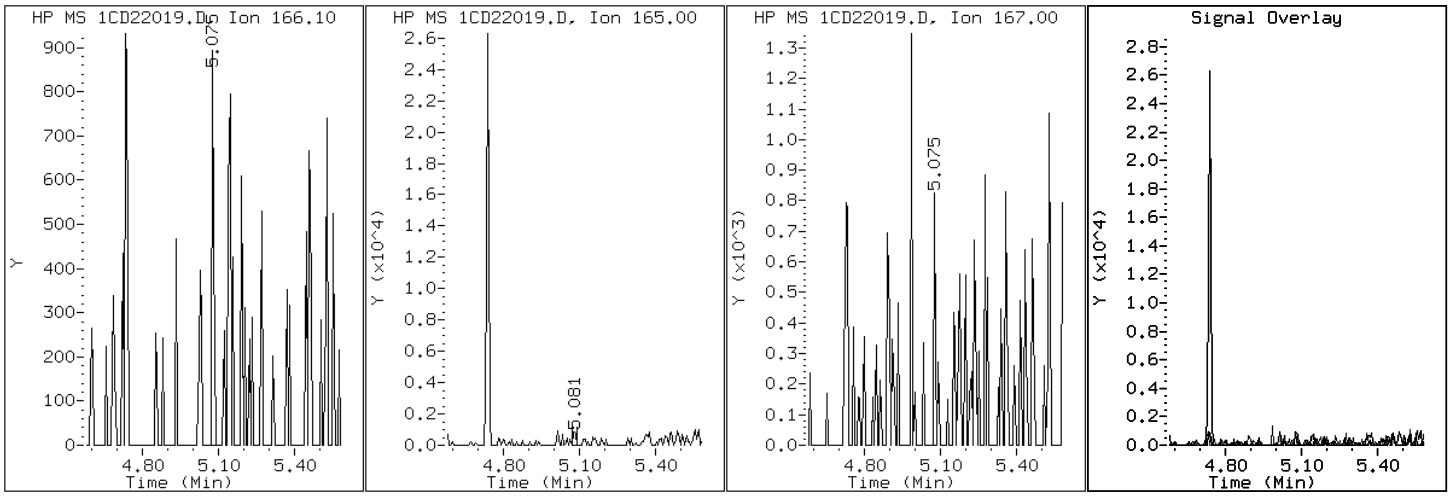
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

9 Fluorene



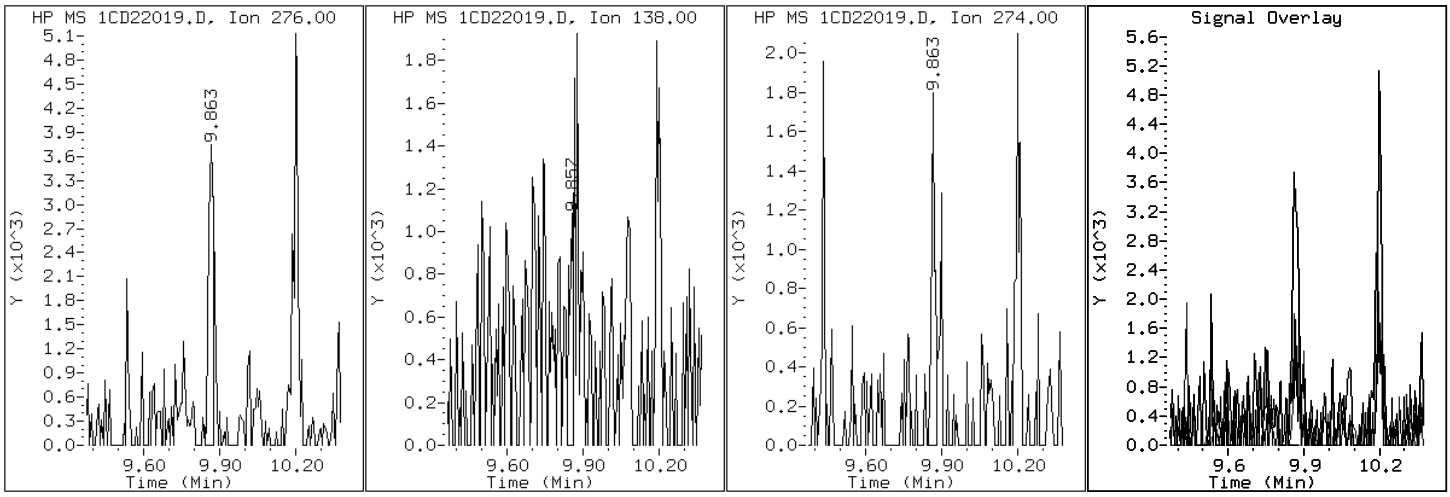
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

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



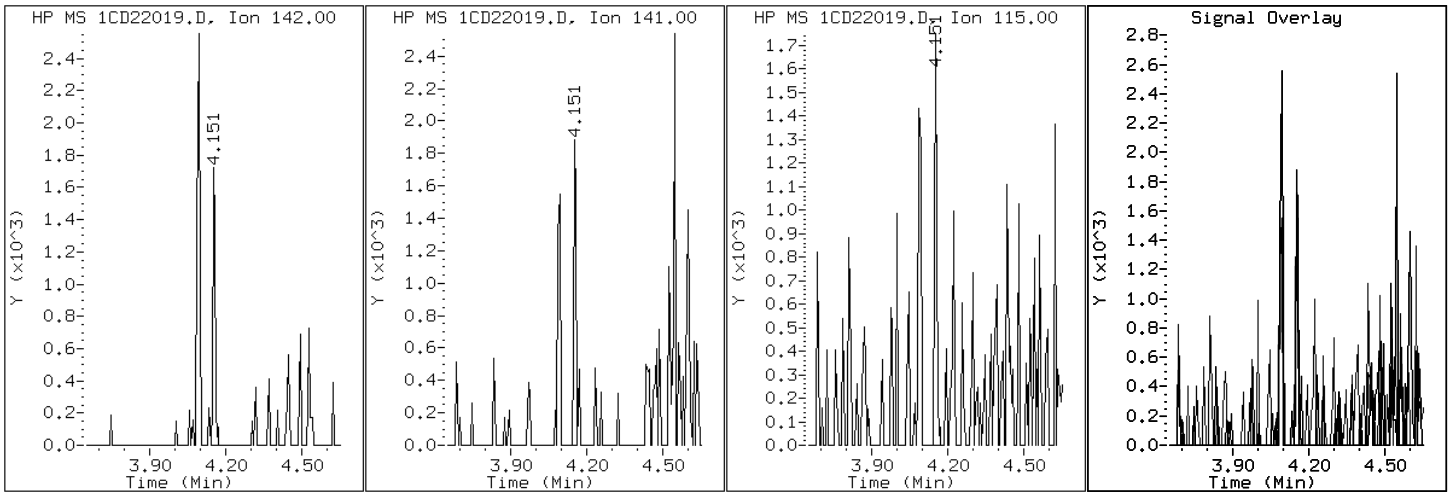
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

4 1-Methylnaphthalene



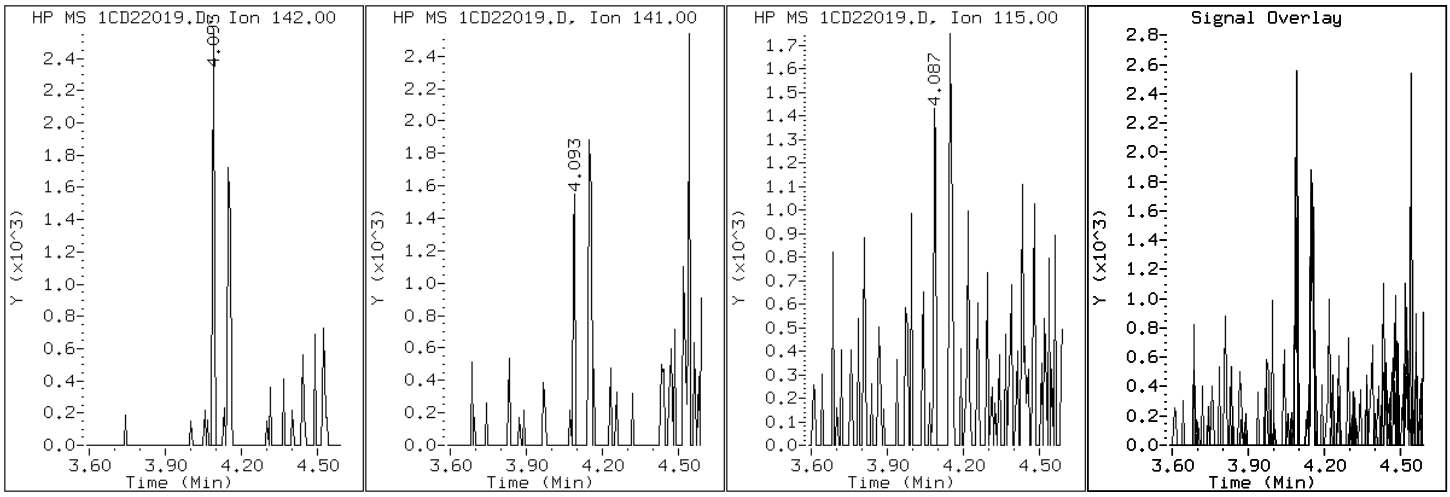
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

3 2-Methylnaphthalene



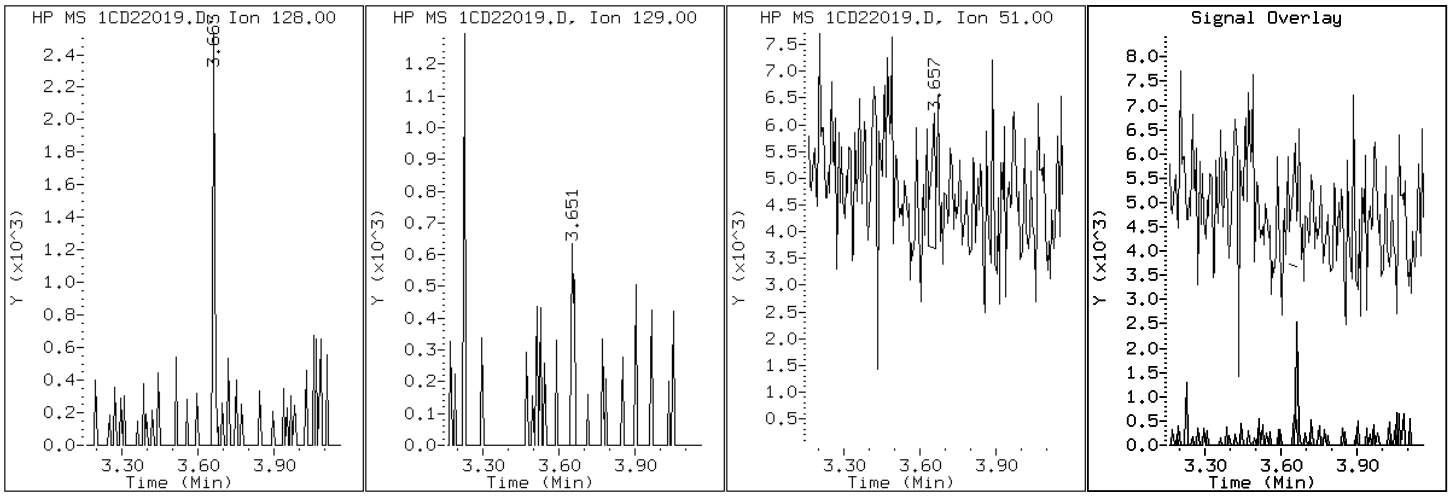
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

2 Naphthalene



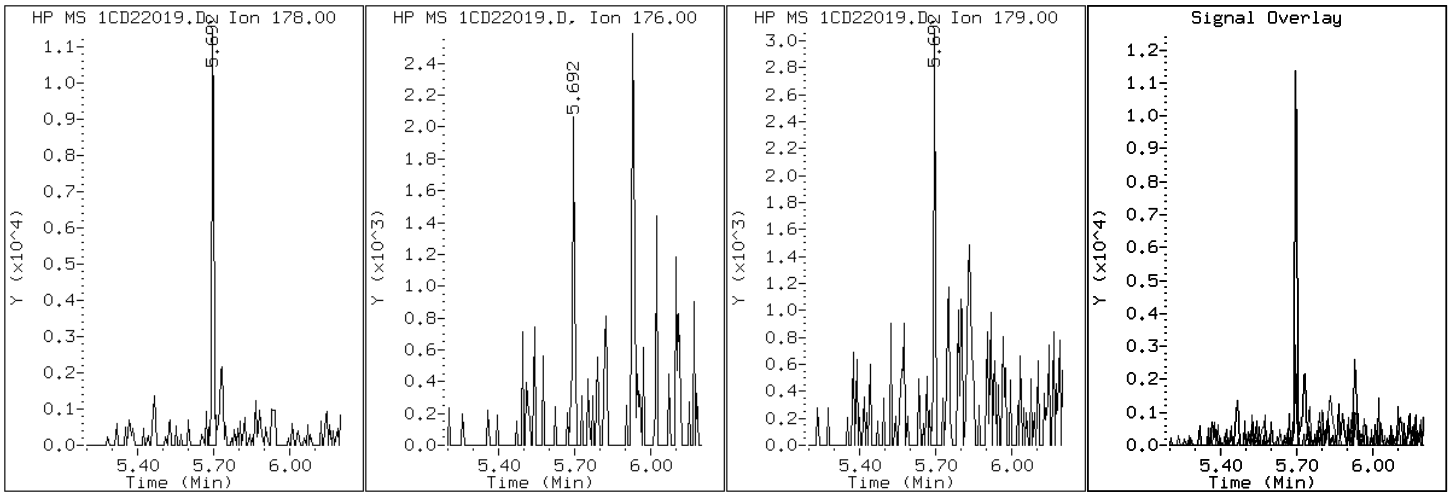
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

11 Phenanthrene



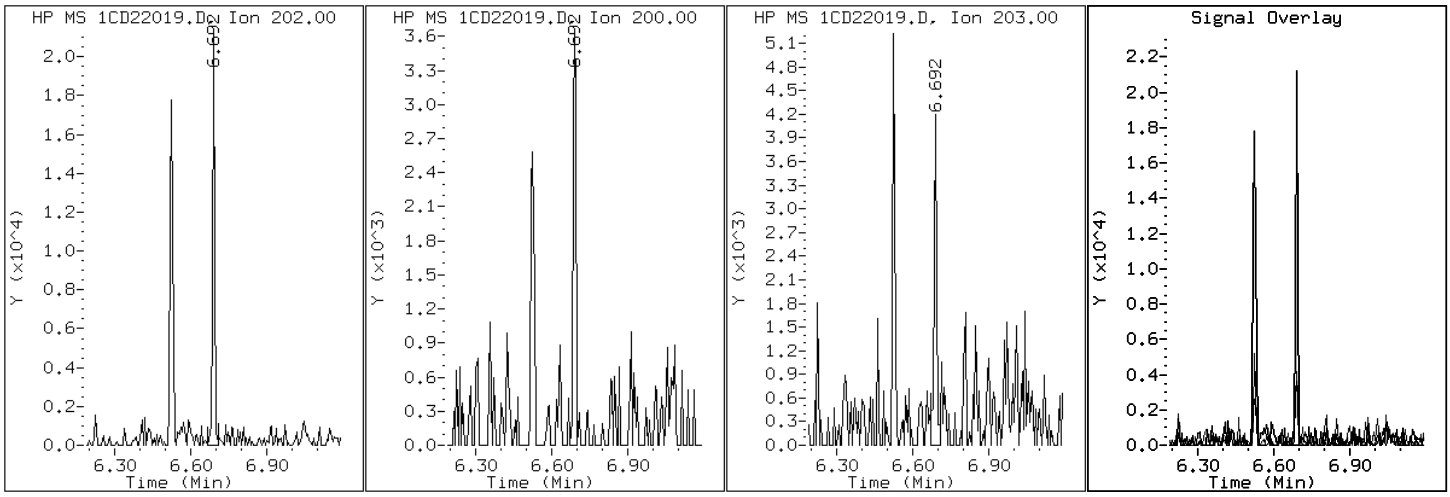
Data File: 1CD22019.D

Date: 22-APR-2013 17:28

Client ID: CV1082A-CS Instrument: BSMC5973.i

Sample Info: 680-89421-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22019.D
Inj. Date and Time: 22-APR-2013 17:28
Instrument ID: BSMC5973.i
Client ID: CV1082A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

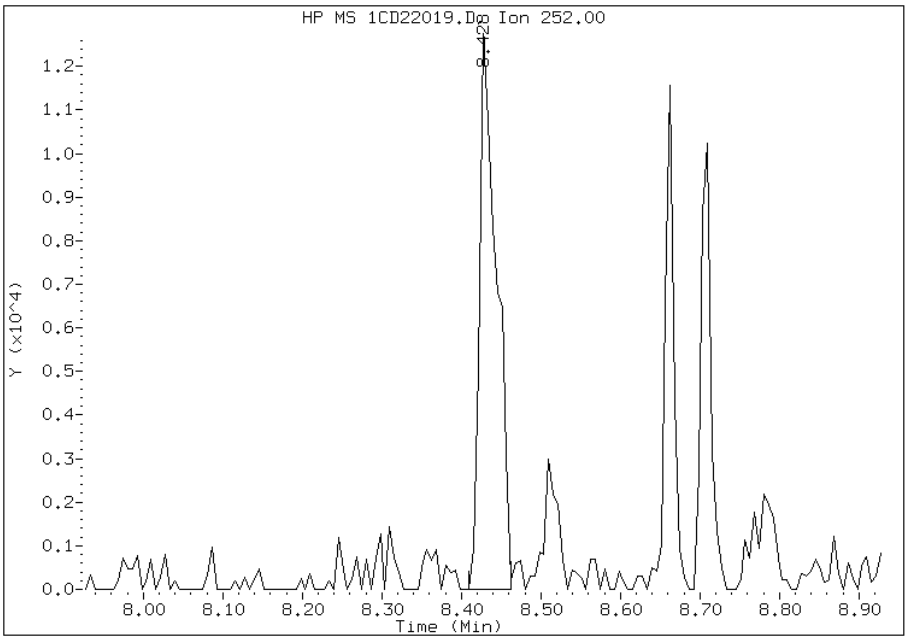
Processing Integration Results

RT: 8.43

Response: 19180

Amount: 3

Conc: 216



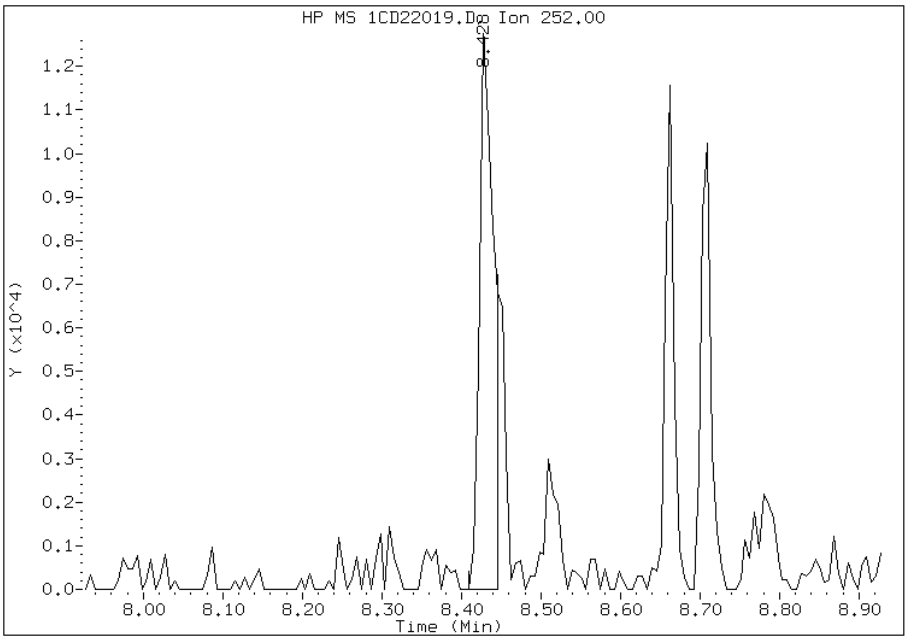
Manual Integration Results

RT: 8.43

Response: 15746

Amount: 2

Conc: 177



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22019.D
Inj. Date and Time: 22-APR-2013 17:28
Instrument ID: BSMC5973.i
Client ID: CV1082A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

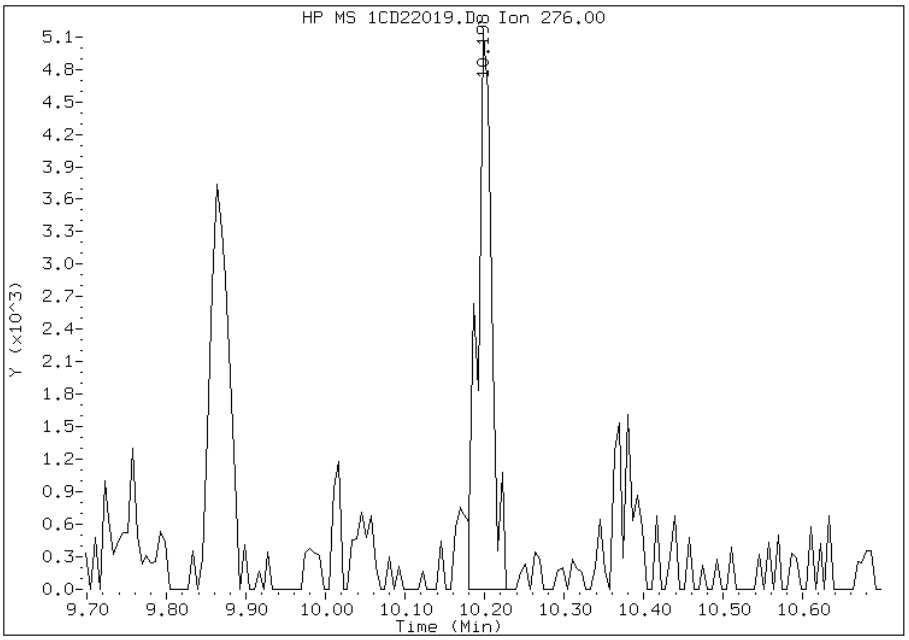
Processing Integration Results

RT: 10.20

Response: 6489

Amount: 1

Conc: 75



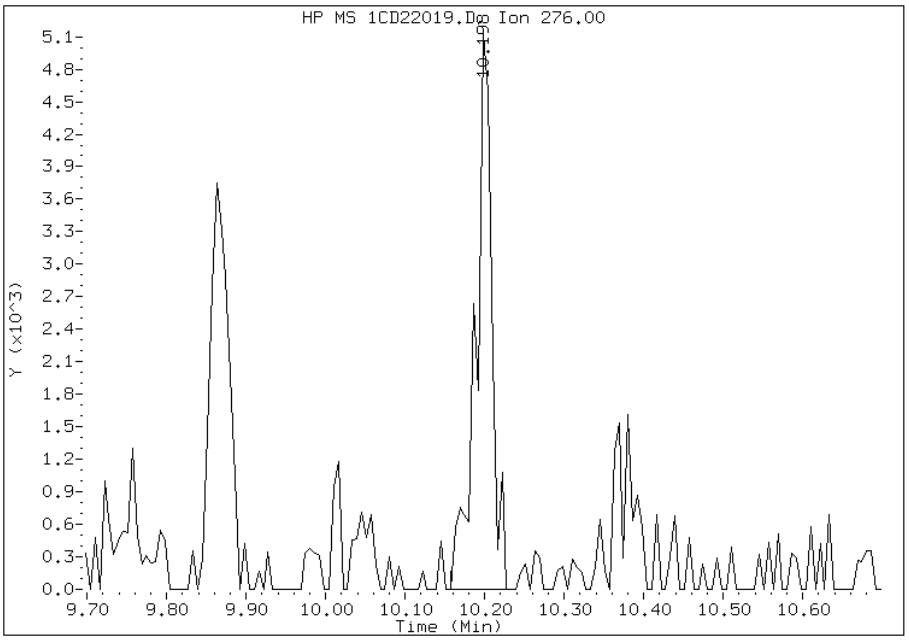
Manual Integration Results

RT: 10.20

Response: 7212

Amount: 1

Conc: 84



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22019.D
Inj. Date and Time: 22-APR-2013 17:28
Instrument ID: BSMC5973.i
Client ID: CV1082A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

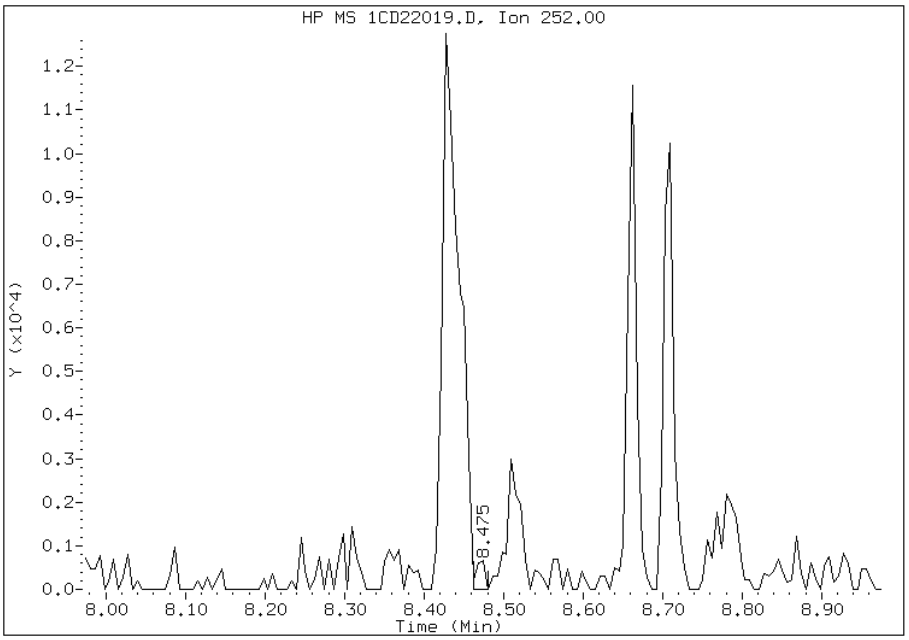
Processing Integration Results

RT: 8.47

Response: 523

Amount: 0

Conc: 5



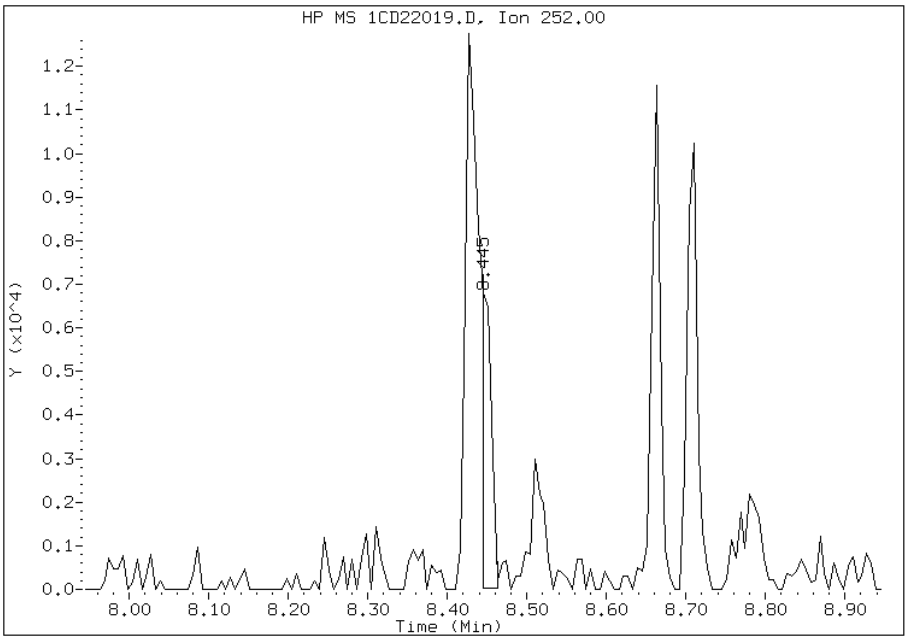
Manual Integration Results

RT: 8.45

Response: 5798

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22019.D
Inj. Date and Time: 22-APR-2013 17:28
Instrument ID: BSMC5973.i
Client ID: CV1082A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

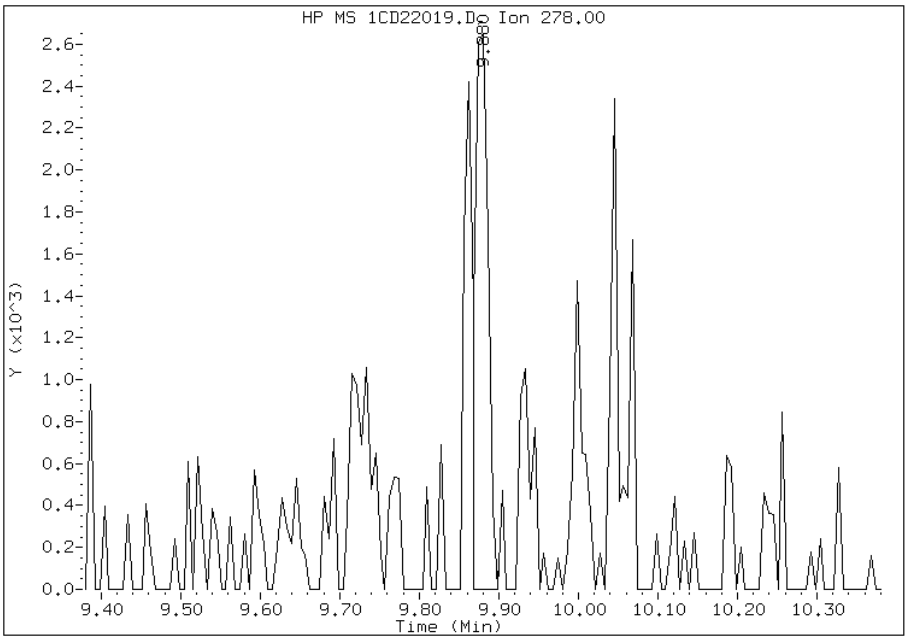
Processing Integration Results

RT: 9.88

Response: 3068

Amount: 1

Conc: 73



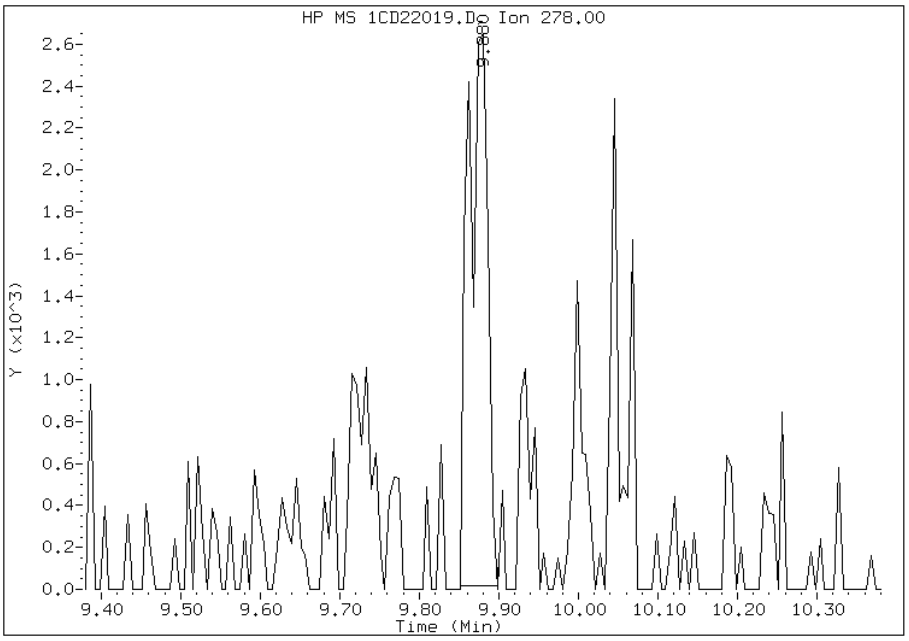
Manual Integration Results

RT: 9.88

Response: 4466

Amount: 1

Conc: 88



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22019.D
Inj. Date and Time: 22-APR-2013 17:28
Instrument ID: BSMC5973.i
Client ID: CV1082A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

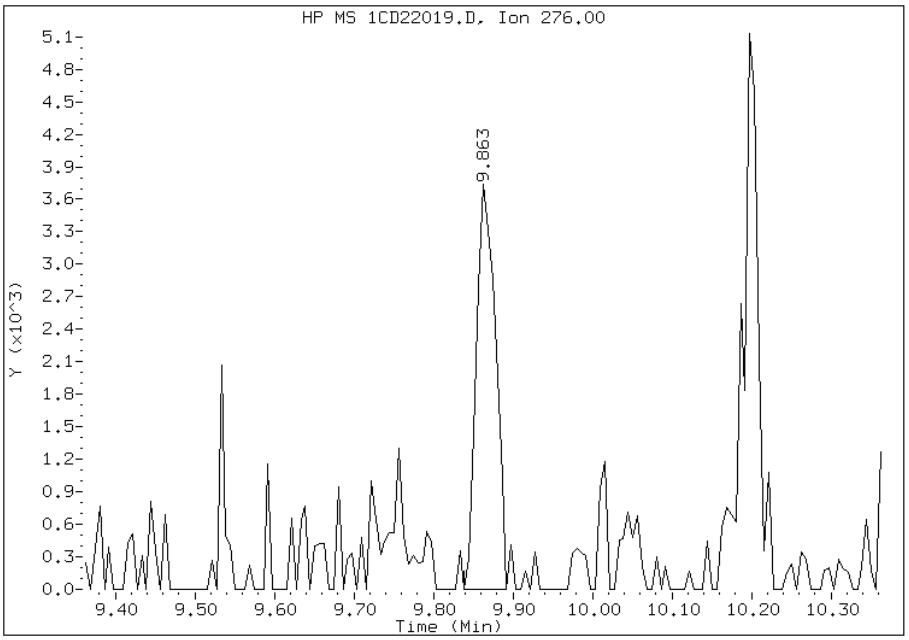
Processing Integration Results

RT: 9.86

Response: 6160

Amount: 1

Conc: 123



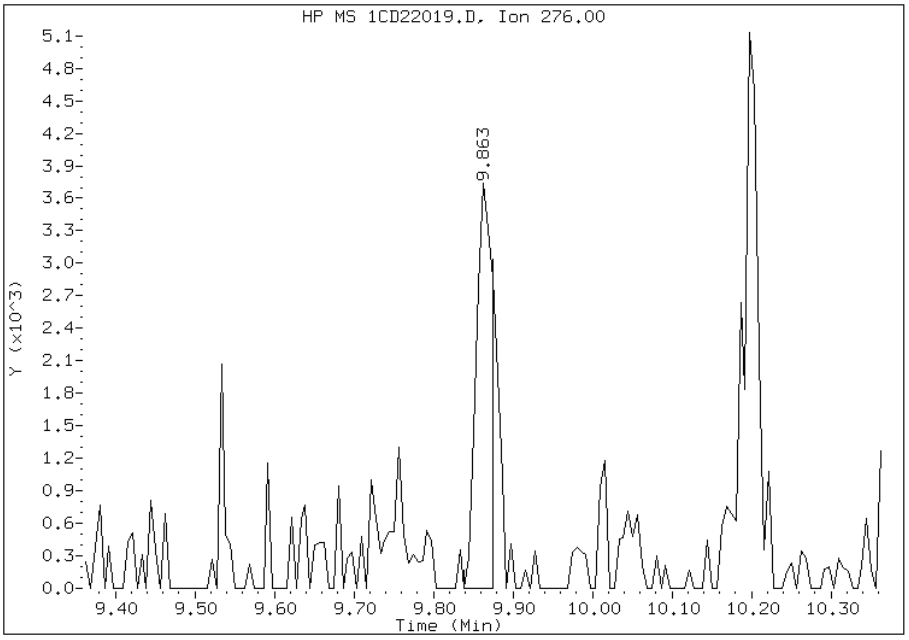
Manual Integration Results

RT: 9.86

Response: 5097

Amount: 1

Conc: 111



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV1082A-CSD | Lab Sample ID: 680-89421-3

Matrix: Solid | Lab File ID: 1CD22020.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 12:45

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.23(g) | Date Analyzed: 04/22/2013 17:46

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

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

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

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	130	25
208-96-8	Acenaphthylene	270		50	6.3
120-12-7	Anthracene	150		11	5.3
56-55-3	Benzo[a]anthracene	1300		10	4.9
50-32-8	Benzo[a]pyrene	1300		13	6.6
205-99-2	Benzo[b]fluoranthene	1900		15	7.7
191-24-2	Benzo[g,h,i]perylene	820		25	5.5
207-08-9	Benzo[k]fluoranthene	730		10	4.5
218-01-9	Chrysene	1500		11	5.7
53-70-3	Dibenz(a,h)anthracene	230		25	5.2
206-44-0	Fluoranthene	3000		25	5.0
86-73-7	Fluorene	42		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	770		25	8.9
90-12-0	1-Methylnaphthalene	41	J	50	5.5
91-57-6	2-Methylnaphthalene	84		50	8.9
91-20-3	Naphthalene	42	J	50	5.5
85-01-8	Phenanthrene	930		10	4.9
129-00-0	Pyrene	2600		25	4.7

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\1C042213.b\1CD22020.D
Lab Smp Id: 680-89421-A-3-A Client Smp ID: CV1082A-CSD
Inj Date : 22-APR-2013 17:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-3-a
Misc Info : 680-89421-A-3-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	21.842	% 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	3.651	3.651	(1.000)	207580	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	138461	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	259867	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.045)	25070	6.51543	547.3528
*	18 Chrysene-d12	240	7.615	7.615	(1.000)	324511	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	311944	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	2800	0.49900	41.9204
	3 2-Methylnaphthalene	142	4.086	4.092	(1.119)	2734	1.00125	84.1135
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	1732	0.48323	40.5953(Q)
	5 Acenaphthylene	152	4.651	4.651	(0.981)	18934	3.22714	271.1080
	7 Acenaphthene	154	4.757	4.757	(1.004)	1448	0.40953	34.4039(Q)
	9 Fluorene	166	5.074	5.080	(1.071)	2260	0.50228	42.1954
	11 Phenanthrene	178	5.698	5.698	(1.003)	84521	11.1092	933.2723
	12 Anthracene	178	5.727	5.733	(1.008)	13449	1.78269	149.7613

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	3091	0.43992	36.9569
15 Fluoranthene	202	6.527	6.527	(1.149)	301034	35.7092	2999.8864
16 Pyrene	202	6.692	6.692	(0.879)	287283	31.1182	2614.1971
17 Benzo(a)anthracene	228	7.604	7.603	(0.998)	139739	15.2279	1279.2724
19 Chrysene	228	7.633	7.633	(1.002)	163167	17.9741	1509.9823
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	181424	23.0265	1934.4287(M)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	77542	8.69752	730.6671(QMH)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	123979	15.2228	1278.8451
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	68863	9.15019	768.6950(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	18594	2.77478	233.1056
26 Benzo(g,h,i)perylene	276	10.197	10.209	(1.164)	74869	9.80770	823.9318

QC Flag Legend

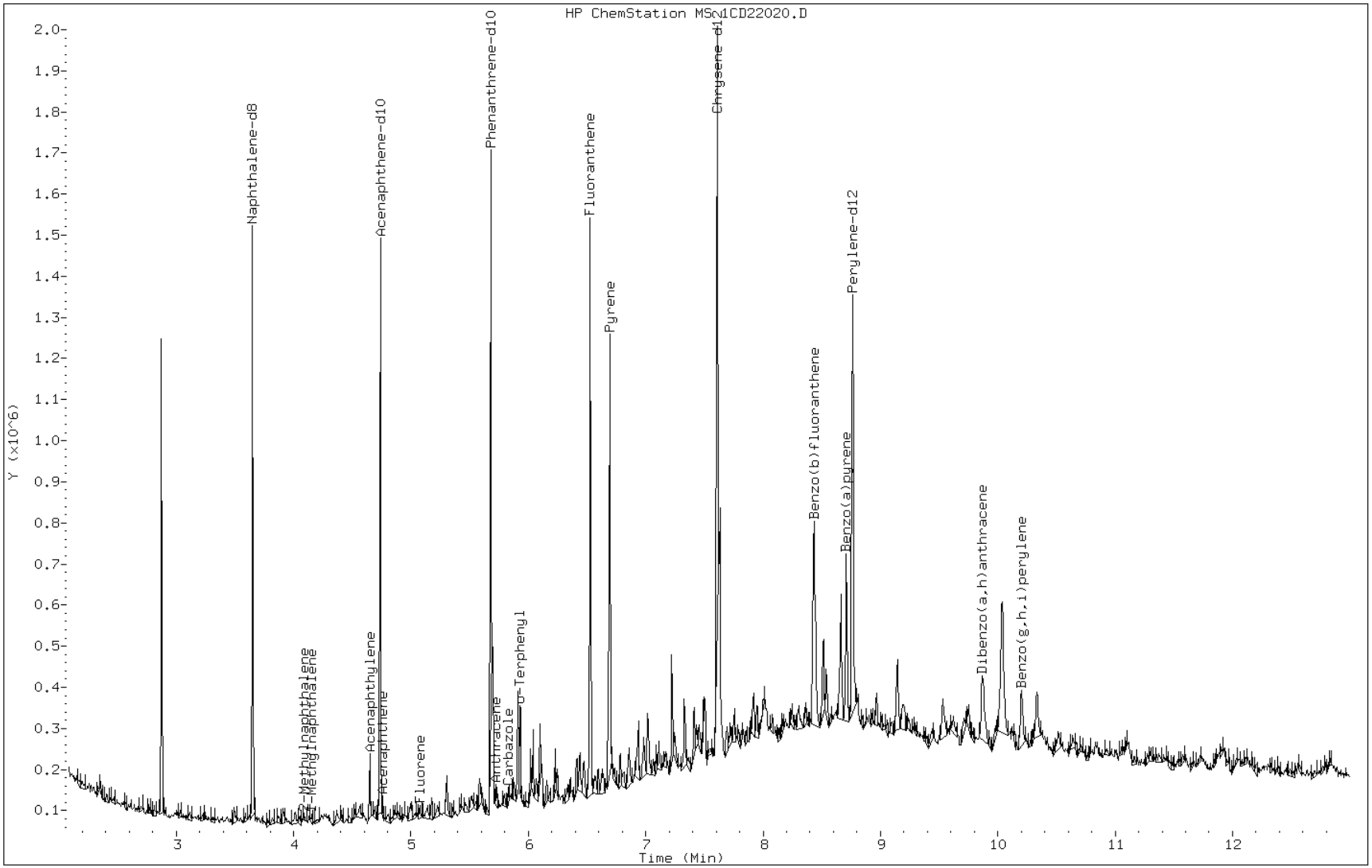
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC



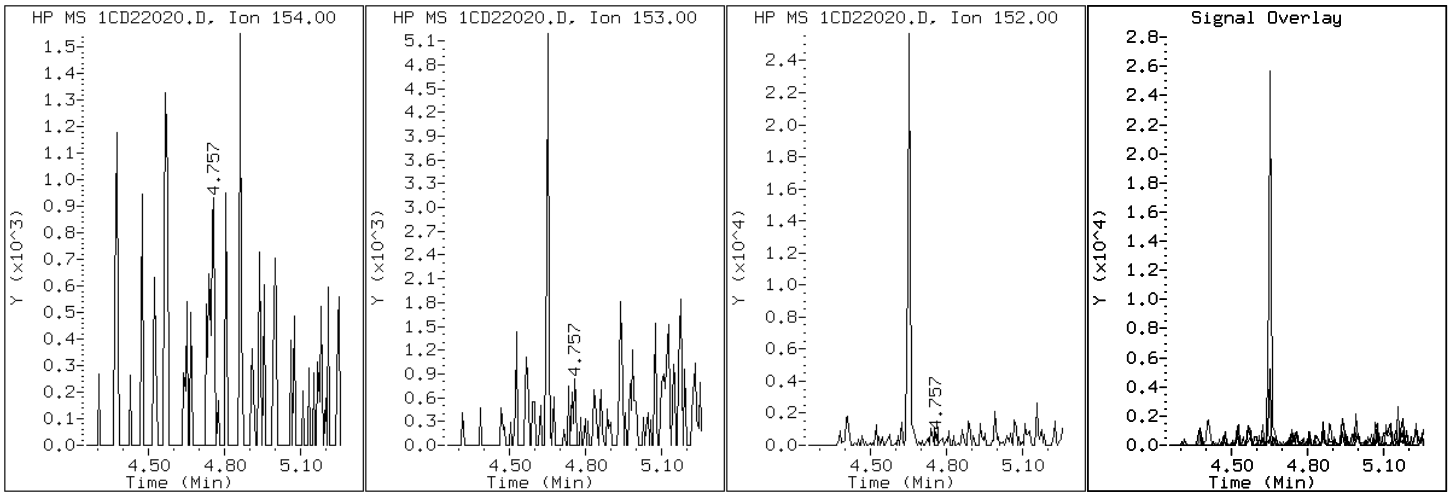
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

7 Acenaphthene



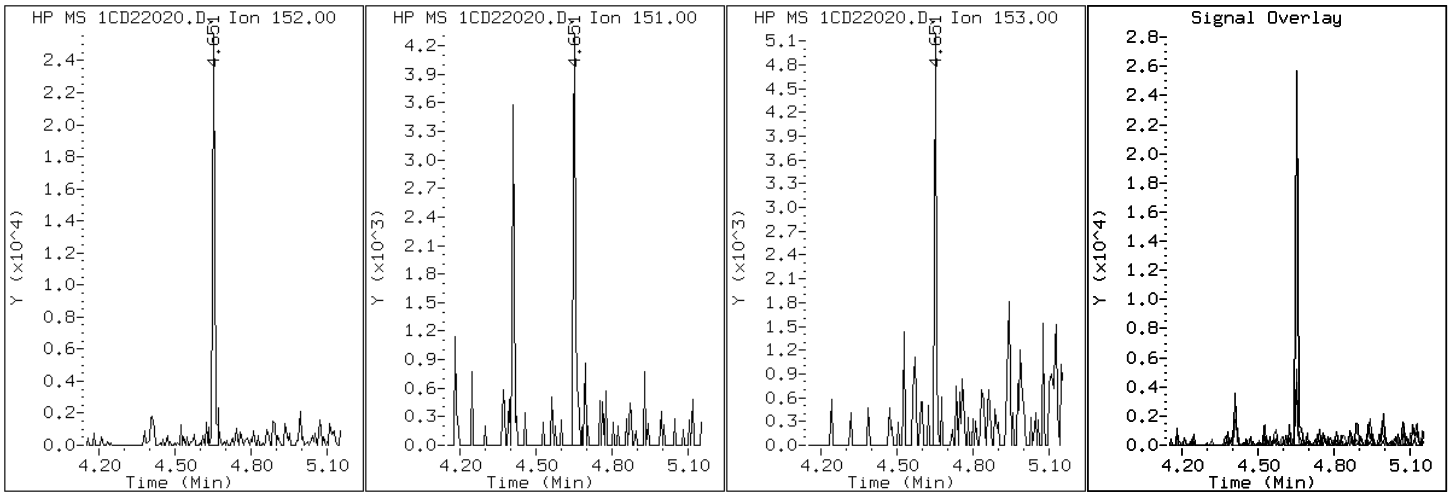
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

5 Acenaphthylene



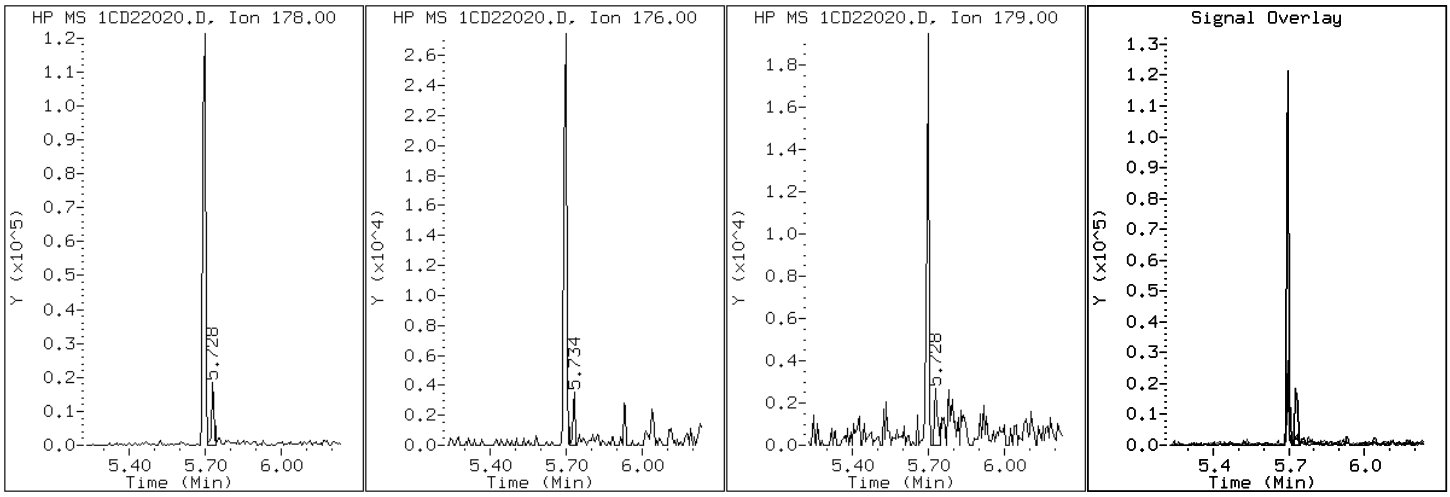
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

12 Anthracene



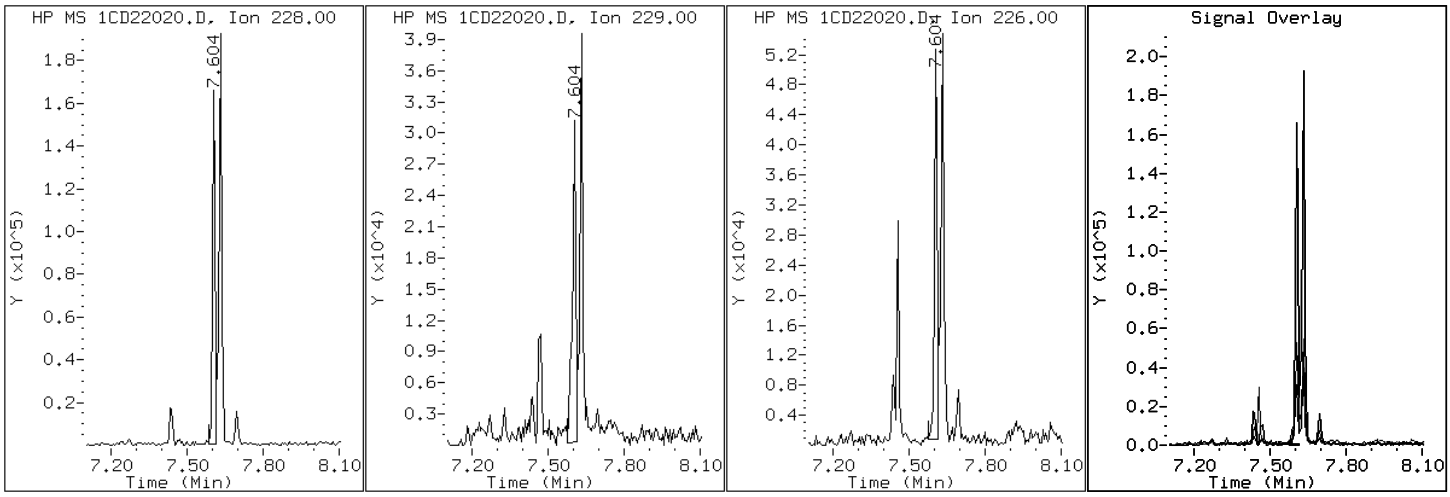
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

17 Benzo(a)anthracene



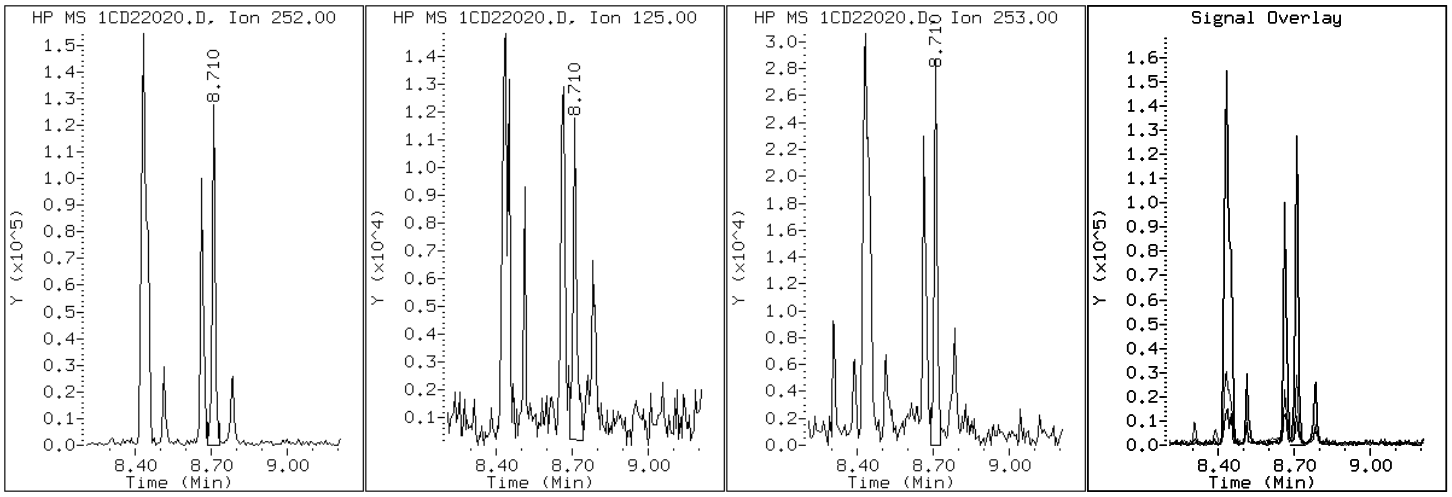
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

22 Benzo(a)pyrene



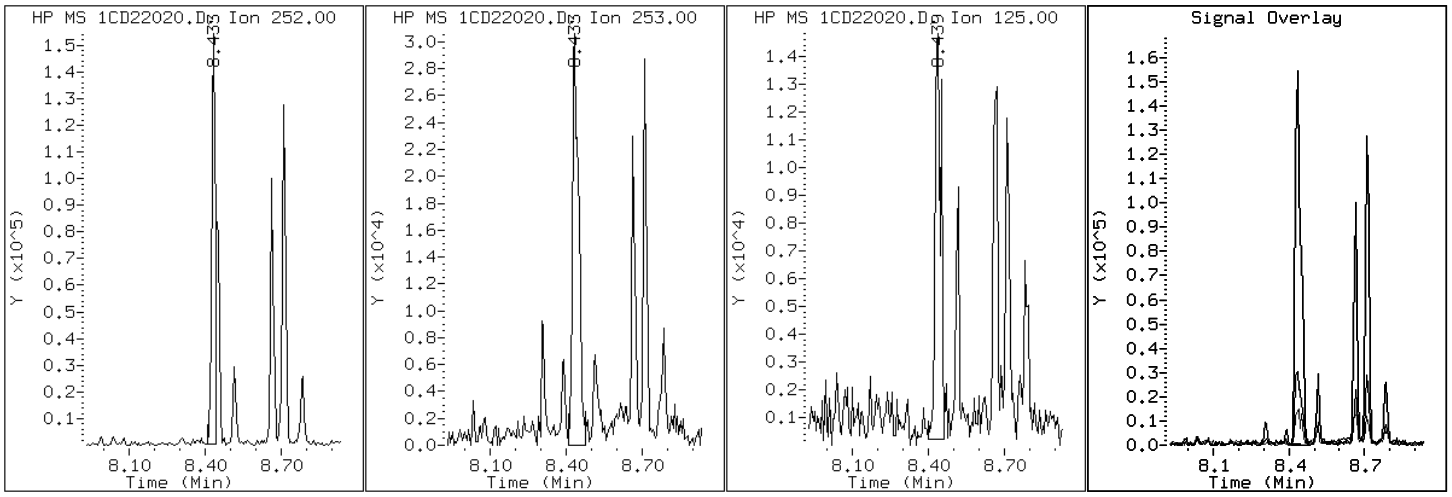
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



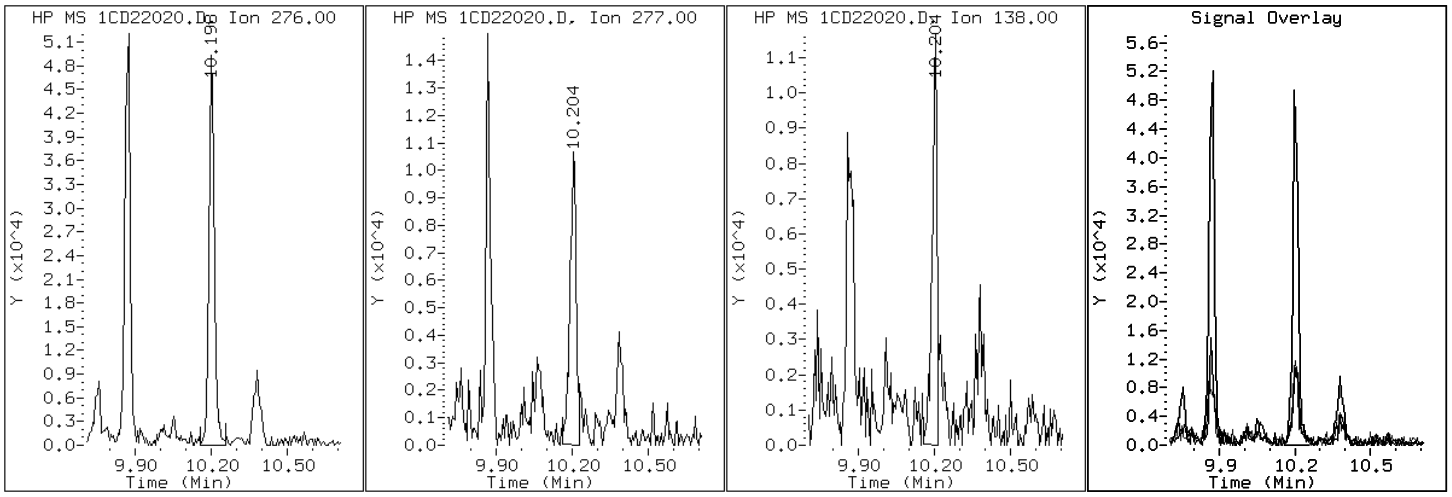
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



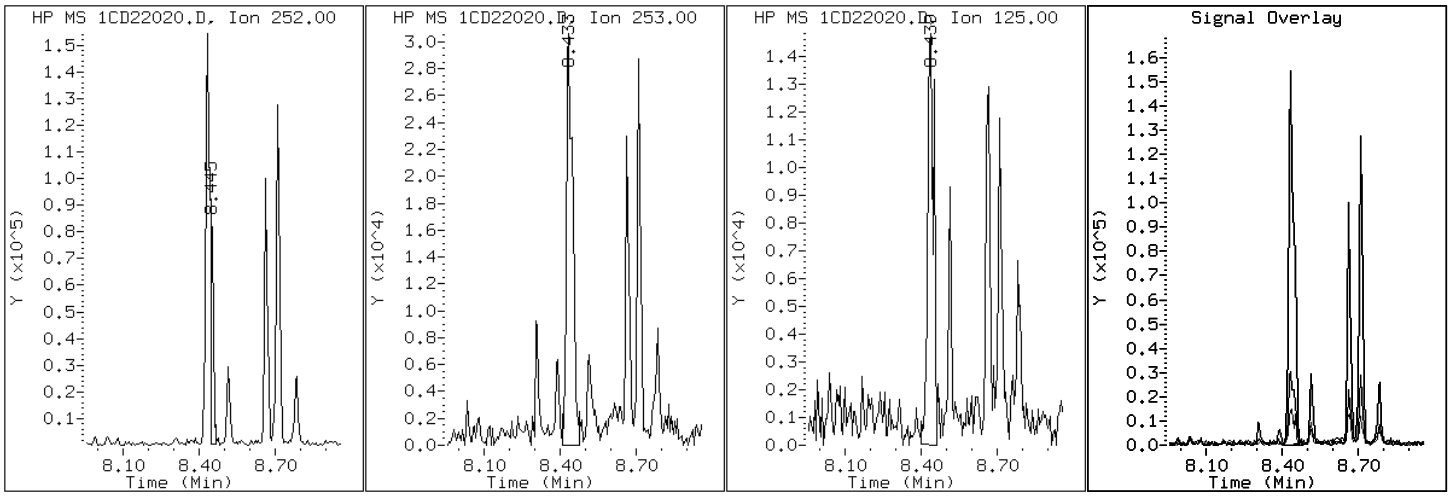
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



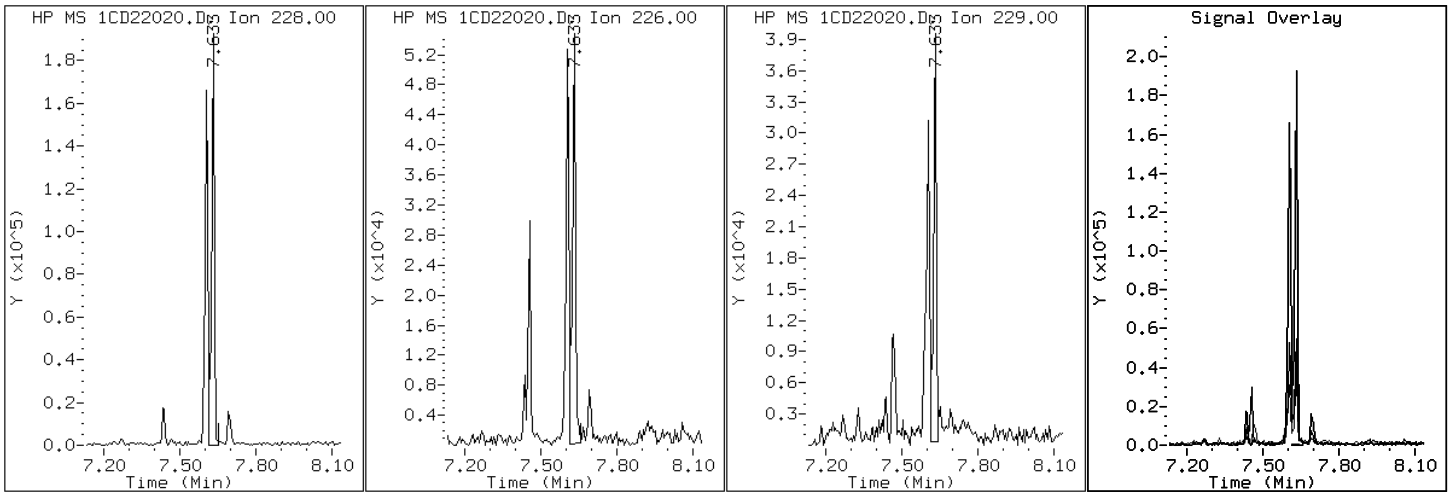
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

19 Chrysene



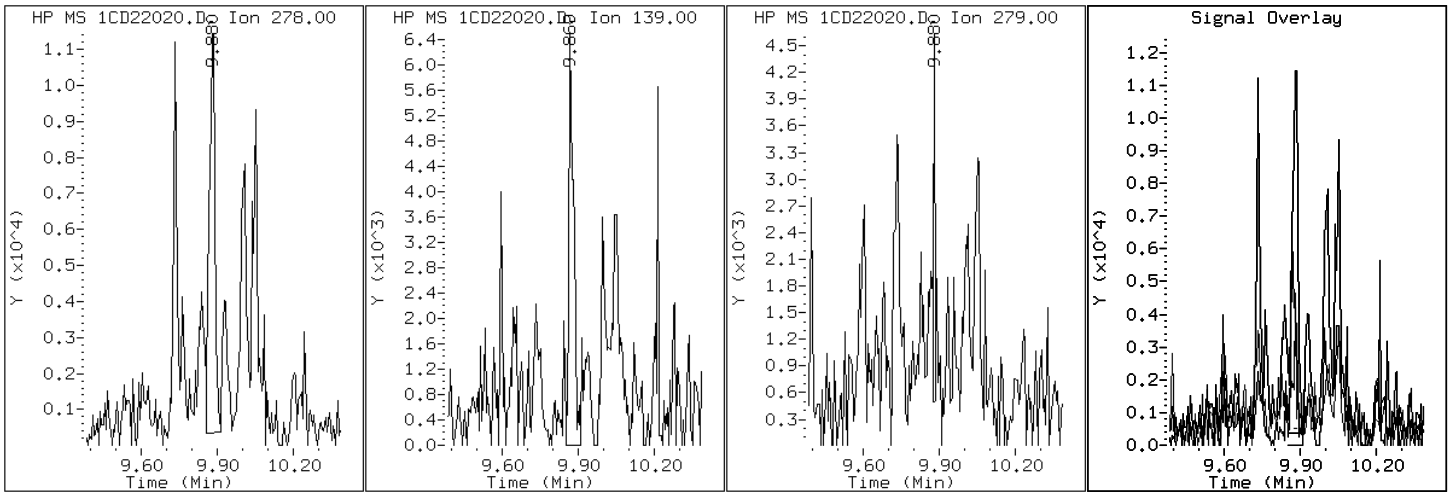
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



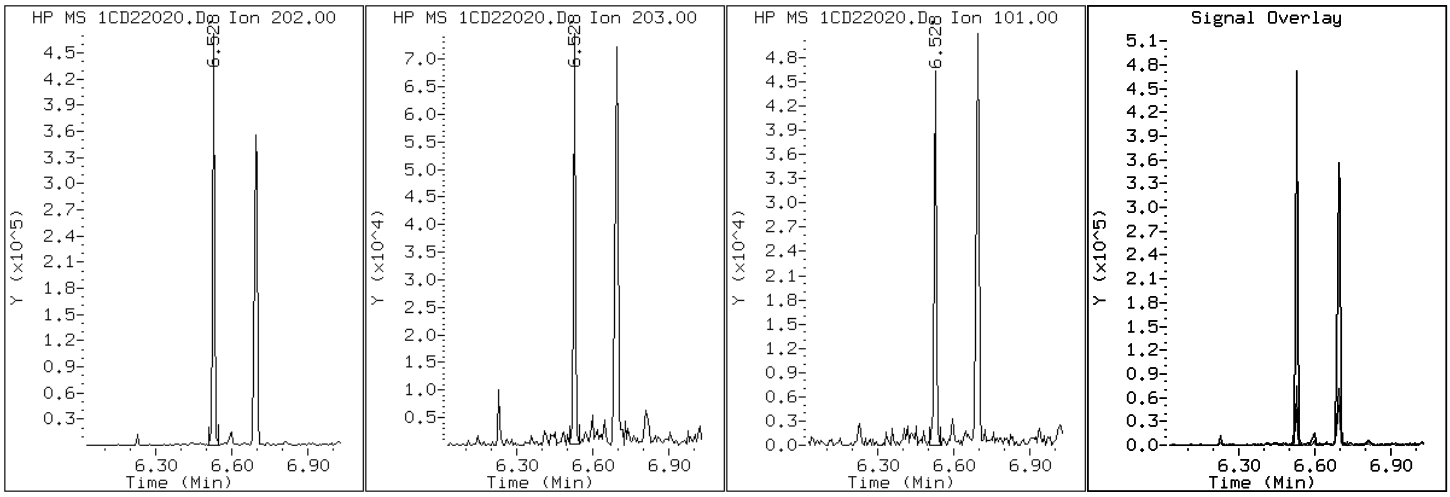
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

15 Fluoranthene



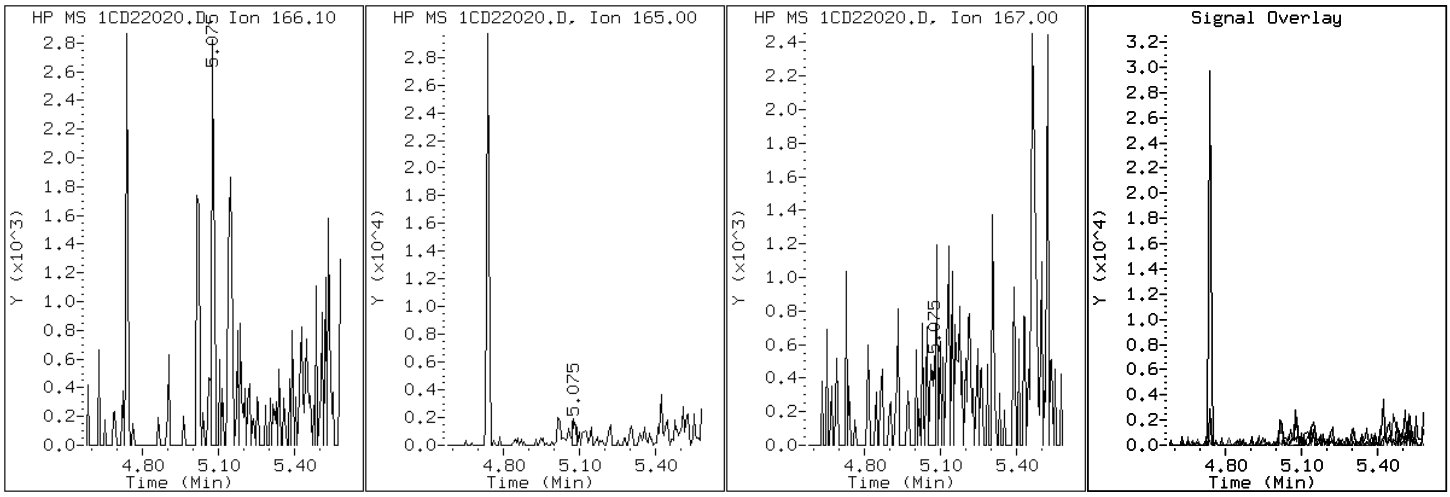
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

9 Fluorene



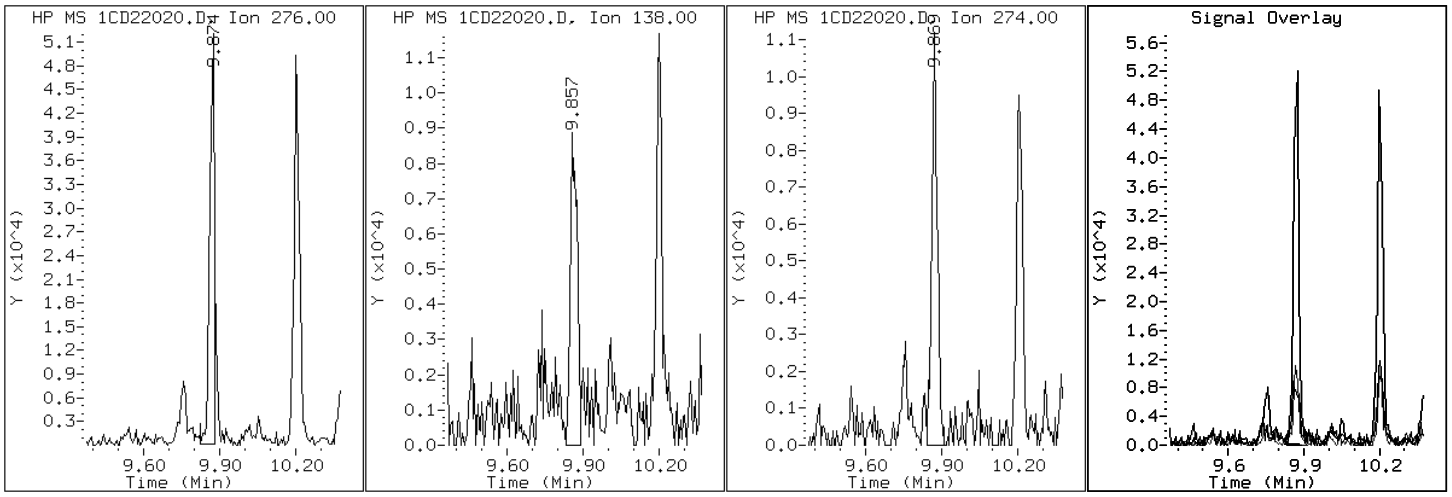
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

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



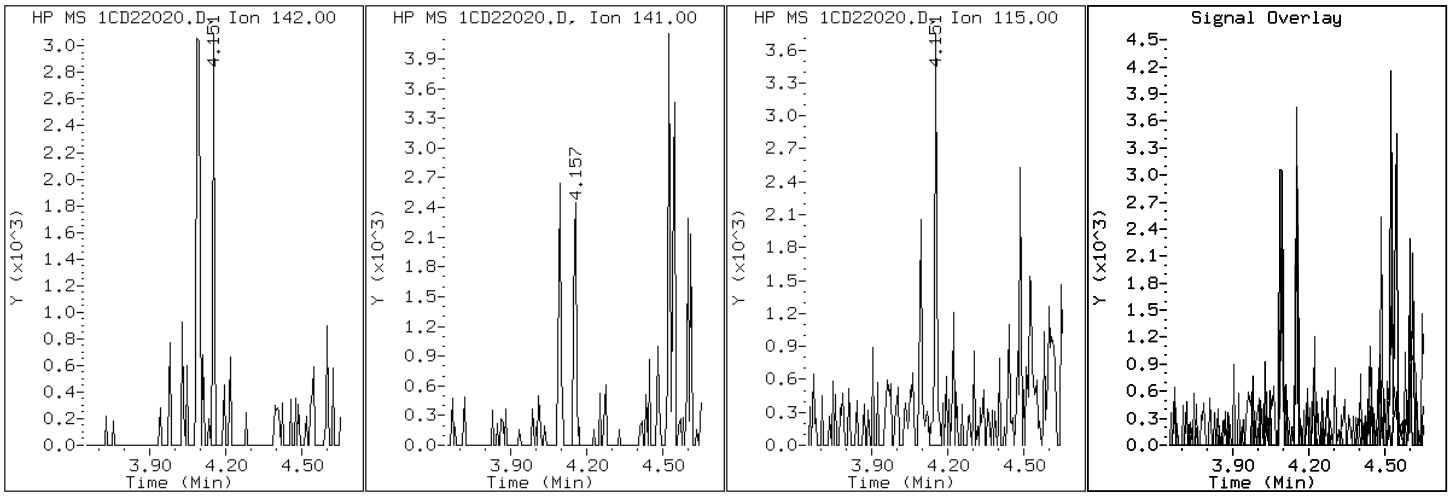
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

4 1-Methylnaphthalene



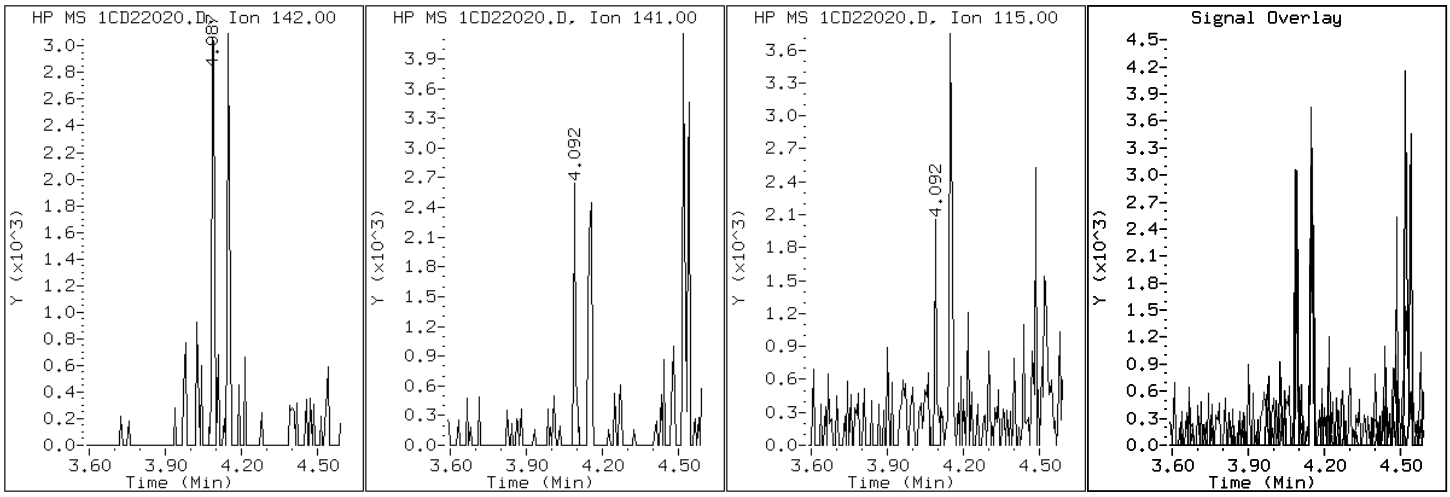
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

3 2-Methylnaphthalene



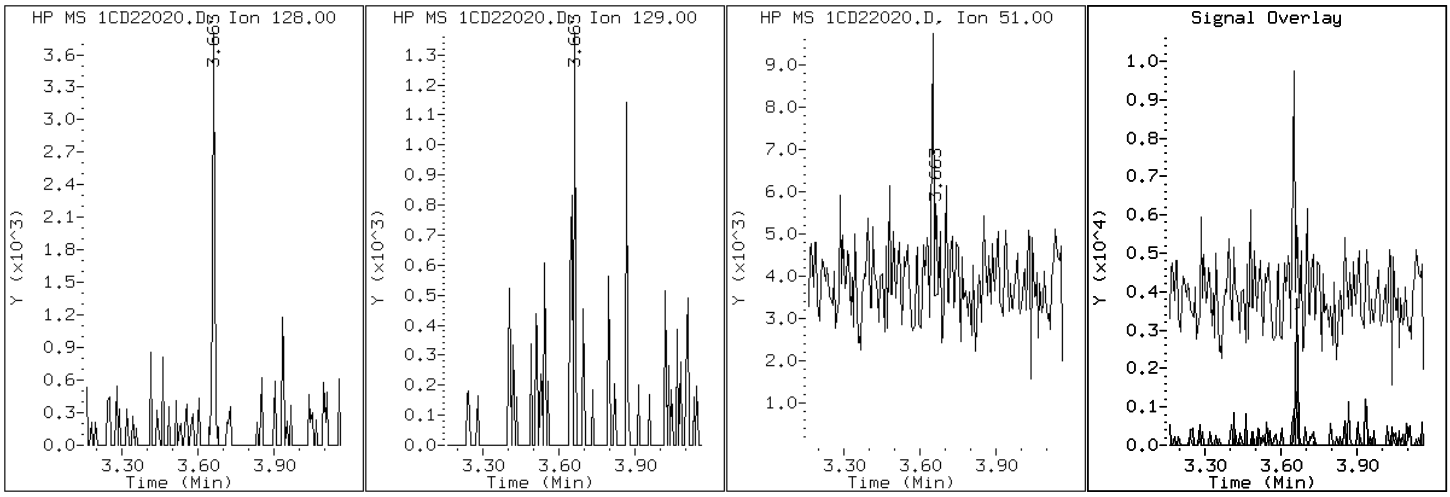
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

2 Naphthalene



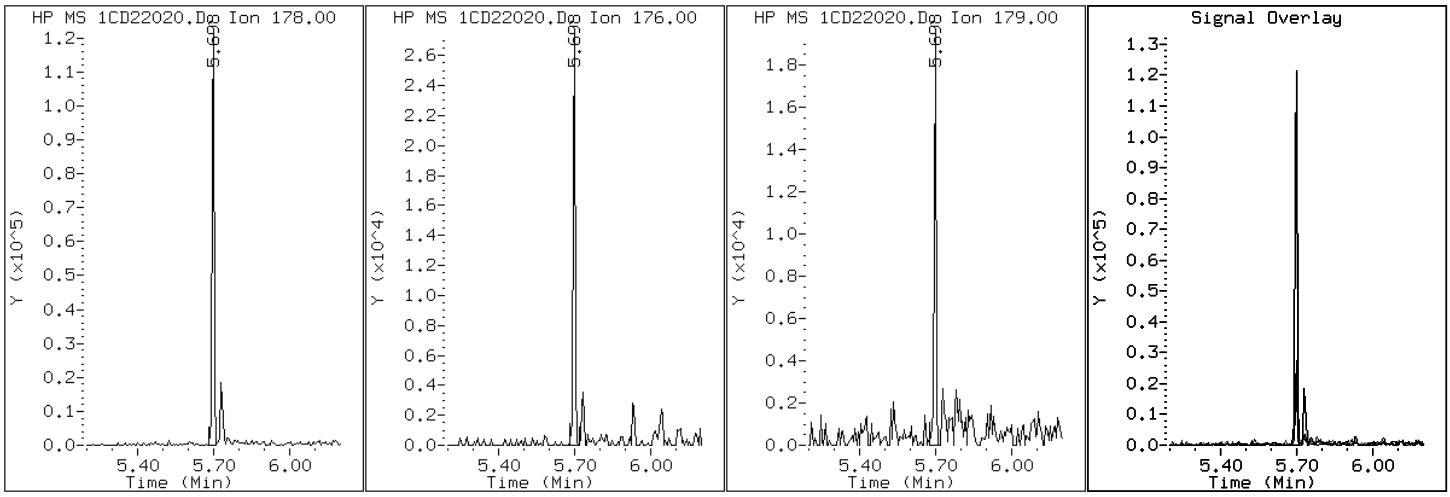
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

11 Phenanthrene



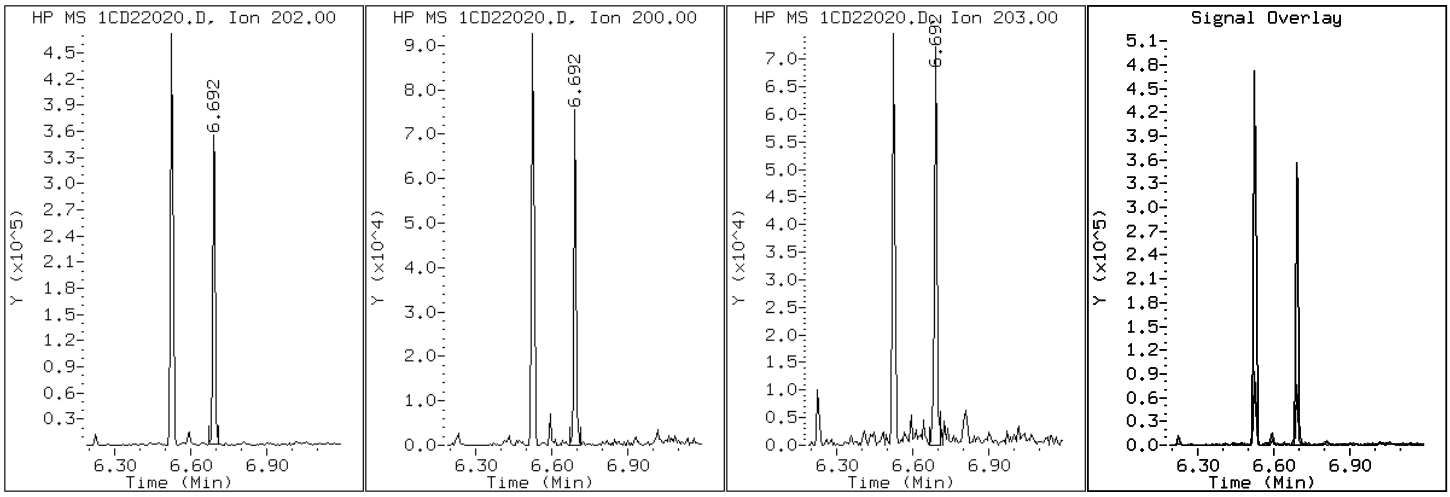
Data File: 1CD22020.D

Date: 22-APR-2013 17:46

Client ID: CV1082A-CSD Instrument: BSMC5973.i

Sample Info: 680-89421-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22020.D
Inj. Date and Time: 22-APR-2013 17:46
Instrument ID: BSMC5973.i
Client ID: CV1082A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

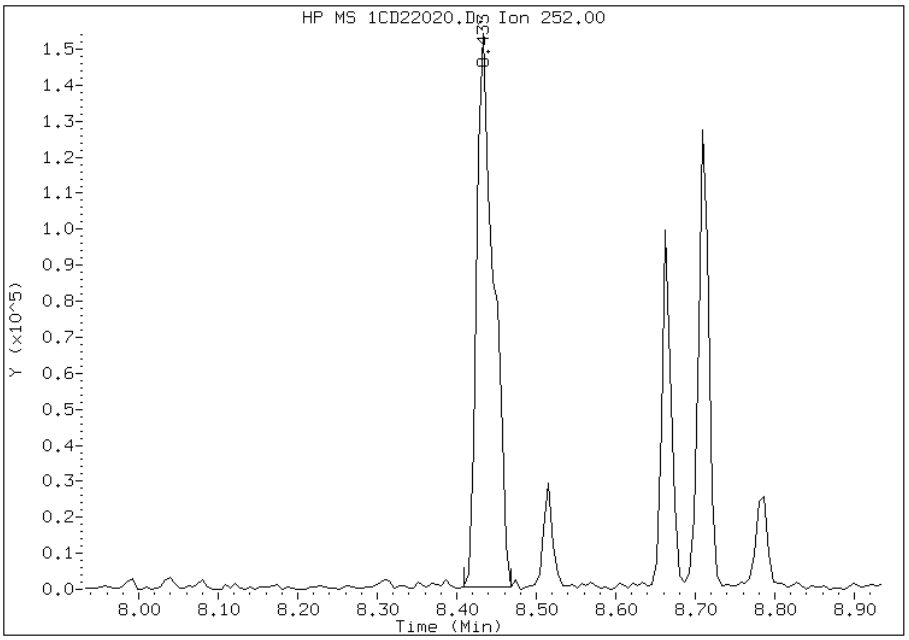
Processing Integration Results

RT: 8.43

Response: 228388

Amount: 29

Conc: 2435



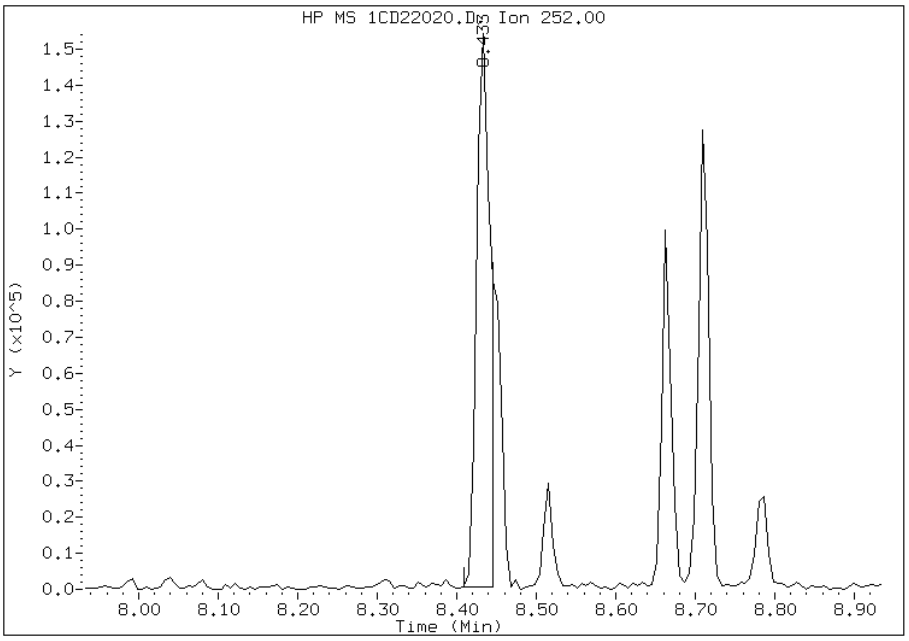
Manual Integration Results

RT: 8.43

Response: 181424

Amount: 23

Conc: 1934



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22020.D
Inj. Date and Time: 22-APR-2013 17:46
Instrument ID: BSMC5973.i
Client ID: CV1082A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

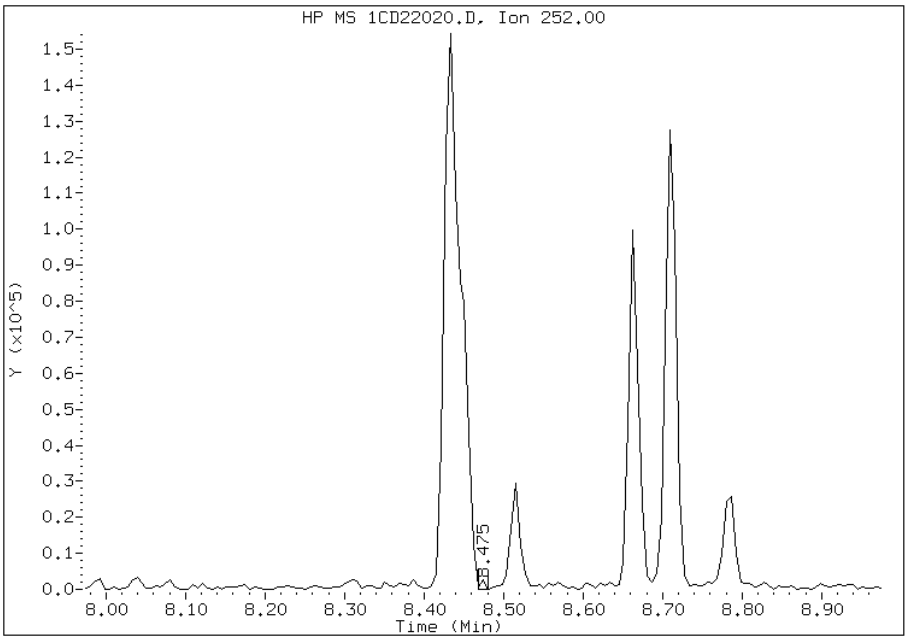
Processing Integration Results

RT: 8.47

Response: 1176

Amount: 0

Conc: 11



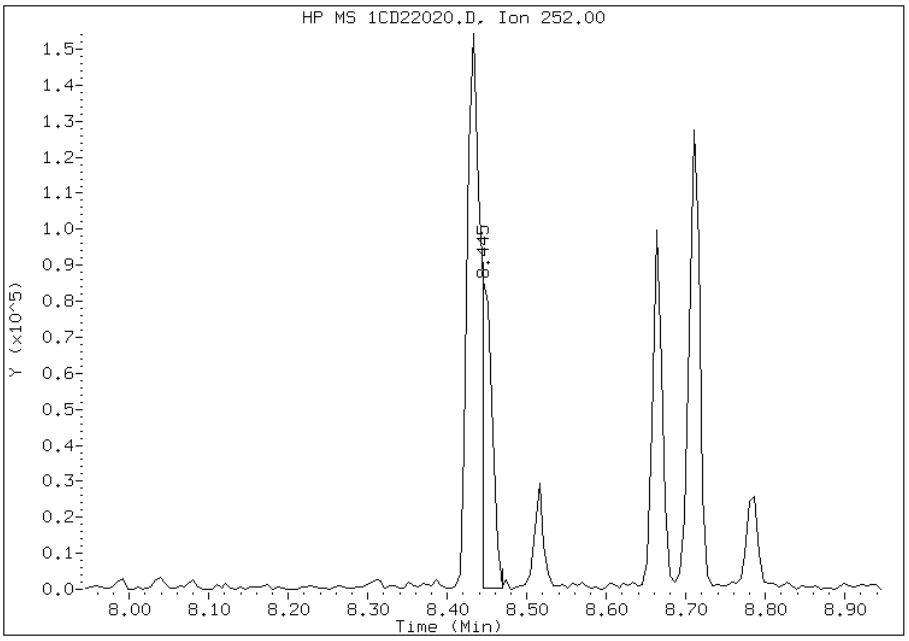
Manual Integration Results

RT: 8.45

Response: 77542

Amount: 9

Conc: 731



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22020.D
Inj. Date and Time: 22-APR-2013 17:46
Instrument ID: BSMC5973.i
Client ID: CV1082A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

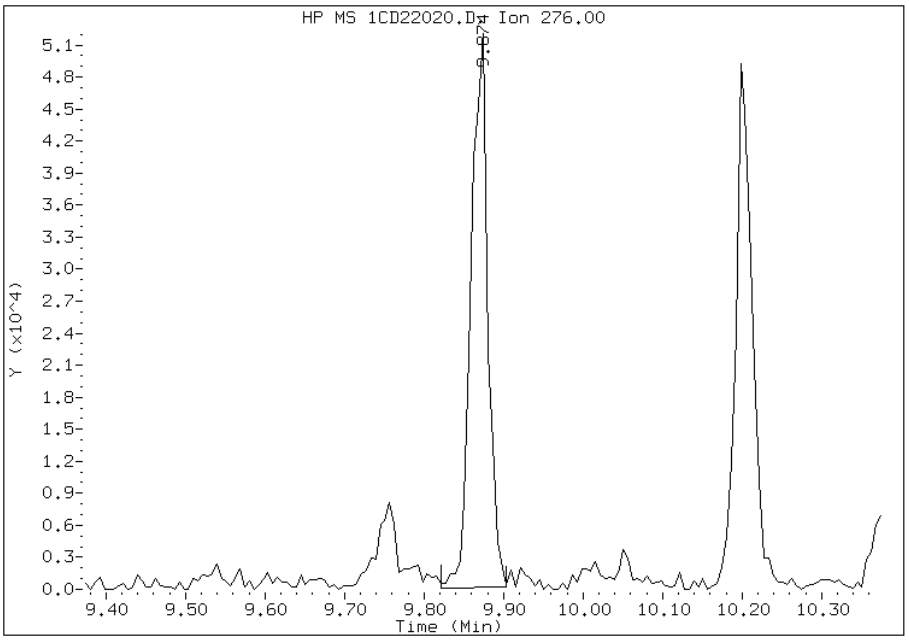
Processing Integration Results

RT: 9.87

Response: 75883

Amount: 10

Conc: 842



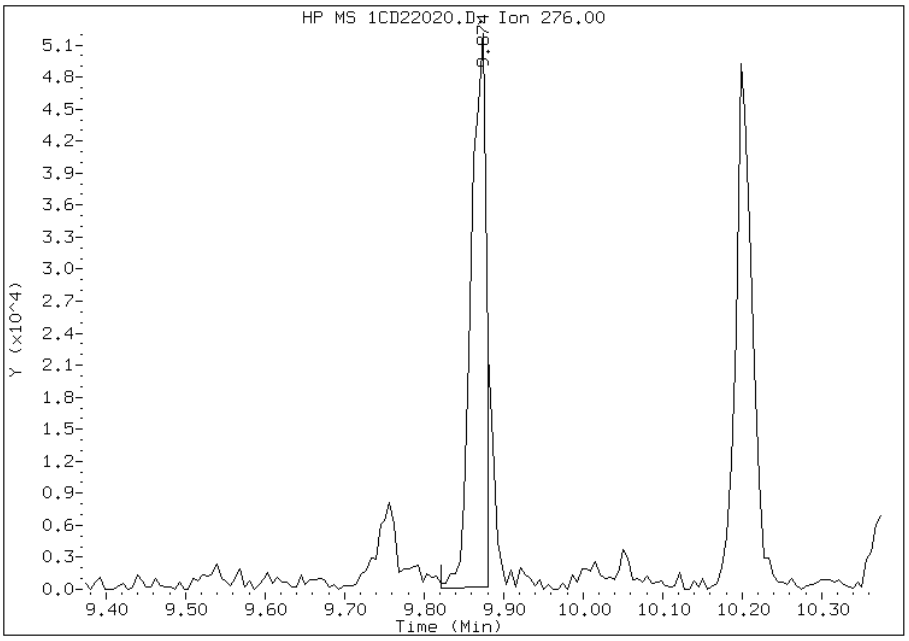
Manual Integration Results

RT: 9.87

Response: 68863

Amount: 9

Conc: 769



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV0745A-CS-SP | Lab Sample ID: 680-89421-4

Matrix: Solid | Lab File ID: 1CD22021.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 13:25

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.96(g) | Date Analyzed: 04/22/2013 18:05

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

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

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	44	U	44	22
56-55-3	Benzo[a]anthracene	41	U	41	20
50-32-8	Benzo[a]pyrene	190		54	27
205-99-2	Benzo[b]fluoranthene	280		63	32
191-24-2	Benzo[g,h,i]perylene	200		100	23
207-08-9	Benzo[k]fluoranthene	110		41	19
218-01-9	Chrysene	200		47	23
53-70-3	Dibenz(a,h)anthracene	100	U	100	21
206-44-0	Fluoranthene	310		100	21
86-73-7	Fluorene	34	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	100	U	100	37
90-12-0	1-Methylnaphthalene	86	J	210	23
91-57-6	2-Methylnaphthalene	170	J	210	37
91-20-3	Naphthalene	84	J	210	23
85-01-8	Phenanthrene	180		41	20
129-00-0	Pyrene	250		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22021.D
Lab Smp Id: 680-89421-A-4-A Client Smp ID: CV0745A-CS-SP
Inj Date : 22-APR-2013 18:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-4-a
Misc Info : 680-89421-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	22.603	% 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	3.651	3.651	(1.000)	236748	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	164336	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	293490	40.0000	
$	14 o-Terphenyl	230	5.927	5.933	(1.043)	7258	2.18305	754.1651
*	18 Chrysene-d12	240	7.609	7.615	(1.000)	313258	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	315866	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	1552	0.24251	83.7793(Q)
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	974	0.50028	172.8296(Q)
	4 1-Methylnaphthalene	142	4.157	4.151	(1.139)	1014	0.24805	85.6928
	9 Fluorene	166	5.080	5.080	(1.072)	529	0.09906	34.2205(Q)
	11 Phenanthrene	178	5.692	5.698	(1.002)	4340	0.51103	176.5423
	13 Carbazole	167	5.839	5.839	(1.028)	857	0.10800	37.3090(Q)
	15 Fluoranthene	202	6.527	6.527	(1.149)	8430	0.88542	305.8816
	16 Pyrene	202	6.692	6.692	(0.879)	6562	0.73632	254.3727

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.627	7.633	(1.002)	5140	0.58655	202.6322(Q)
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	6498	0.81449	281.3780
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	2777	0.30762	106.2700
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	4646	0.56338	194.6262
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	4523	0.58515	202.1474

QC Flag Legend

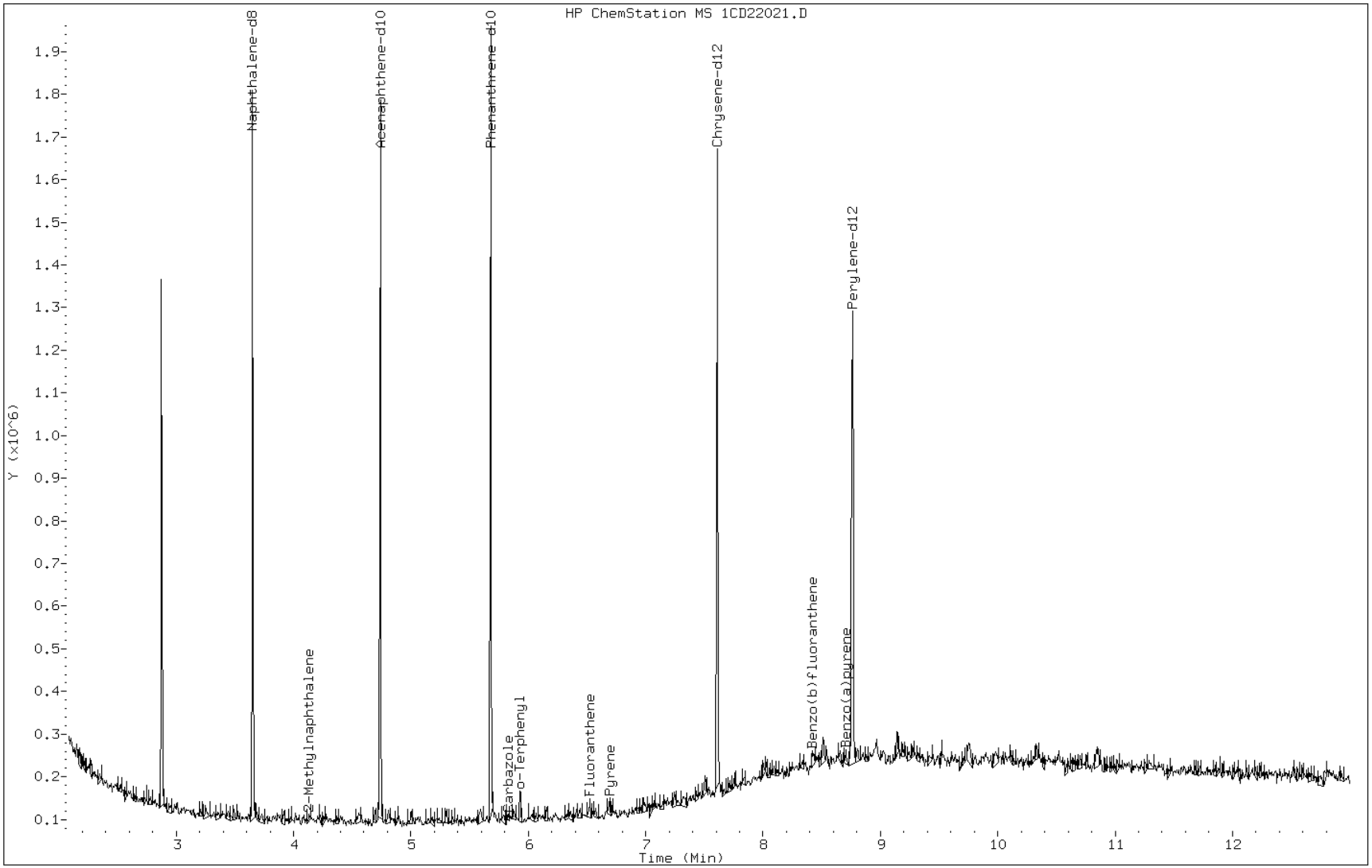
Q - Qualifier signal failed the ratio test.

Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC



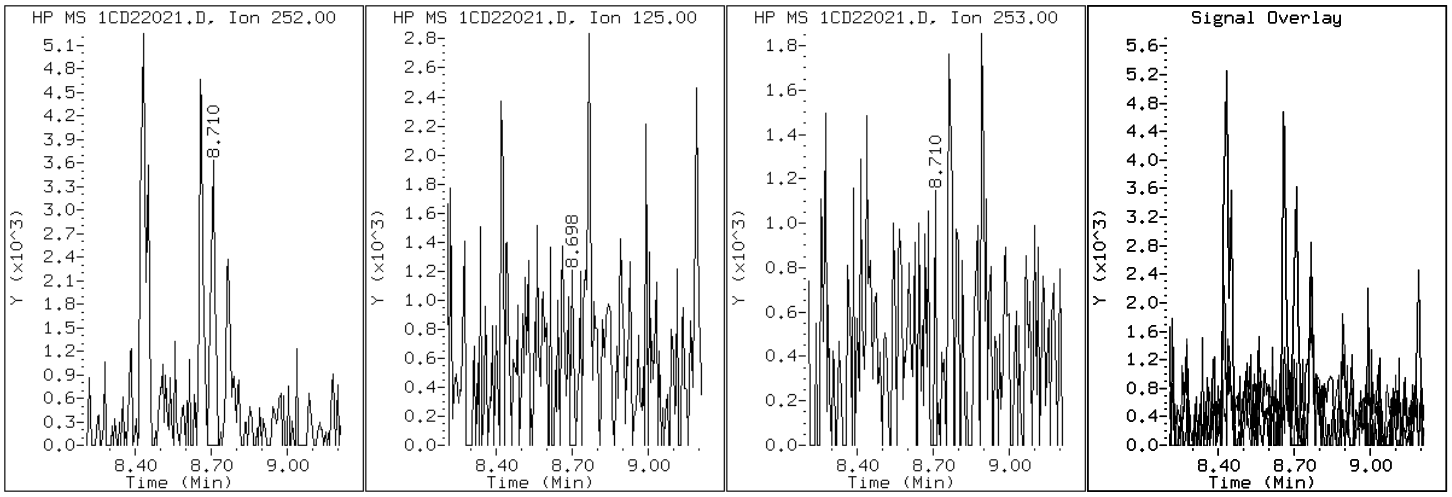
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

22 Benzo(a)pyrene



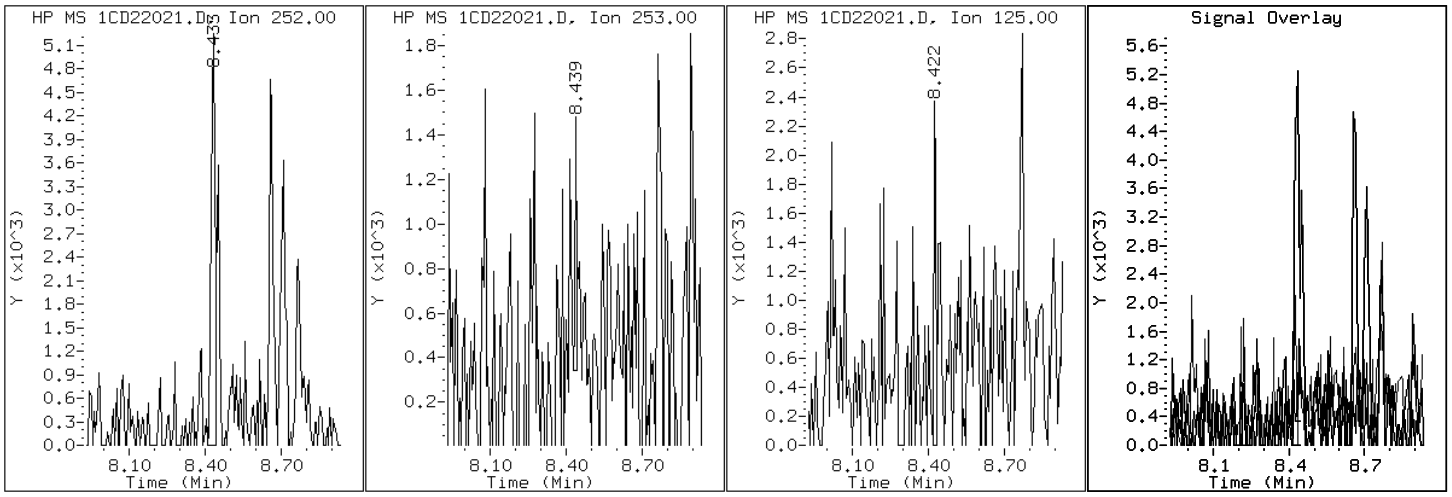
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



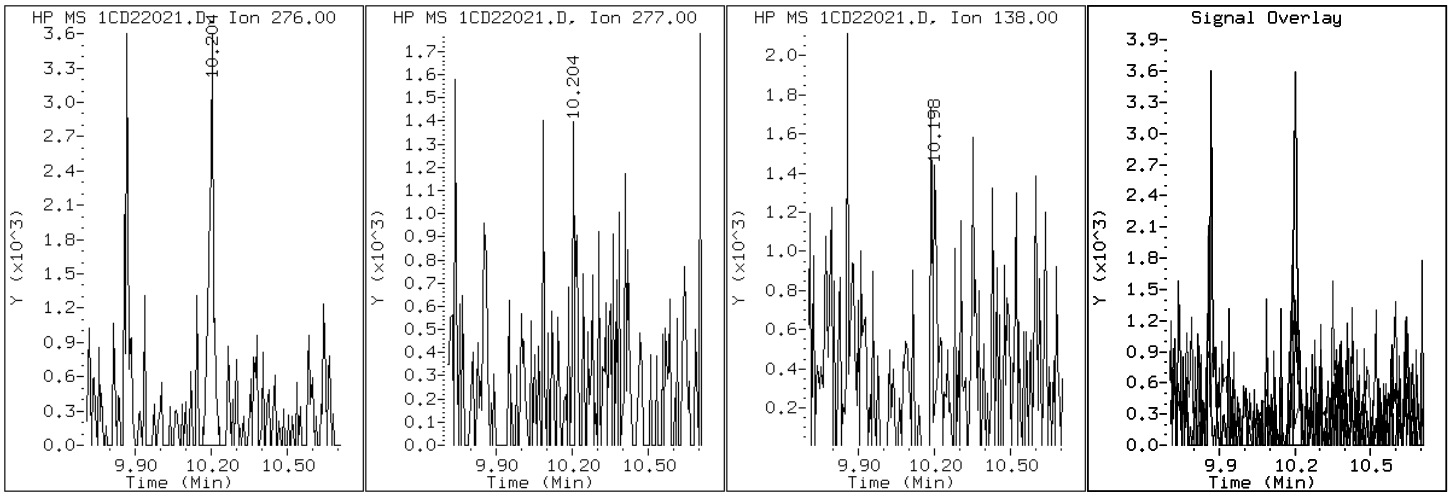
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



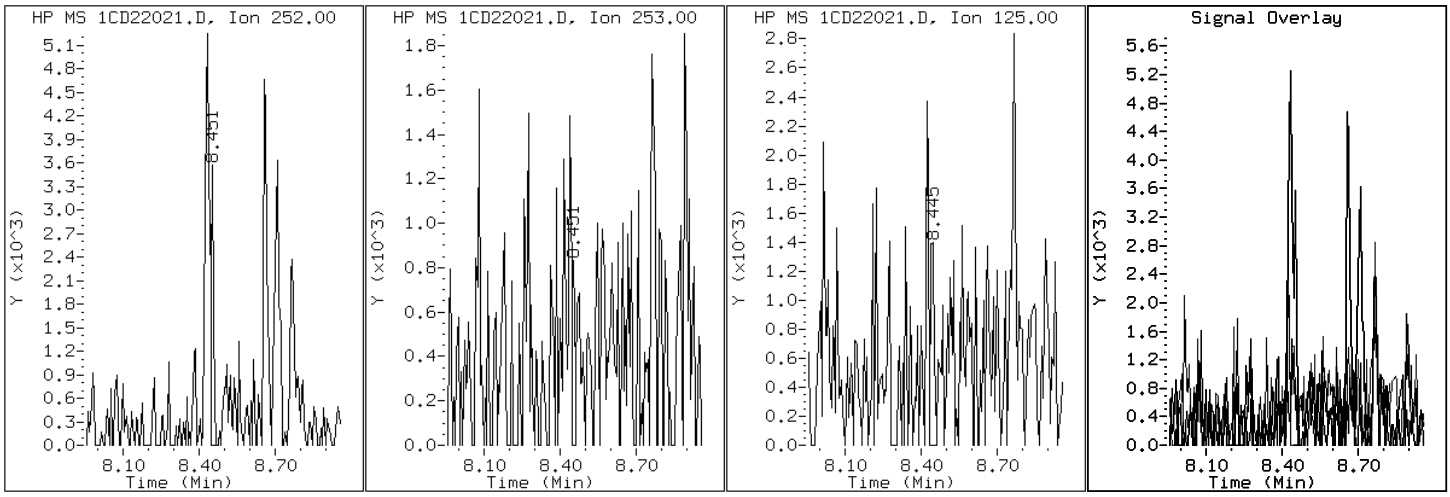
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



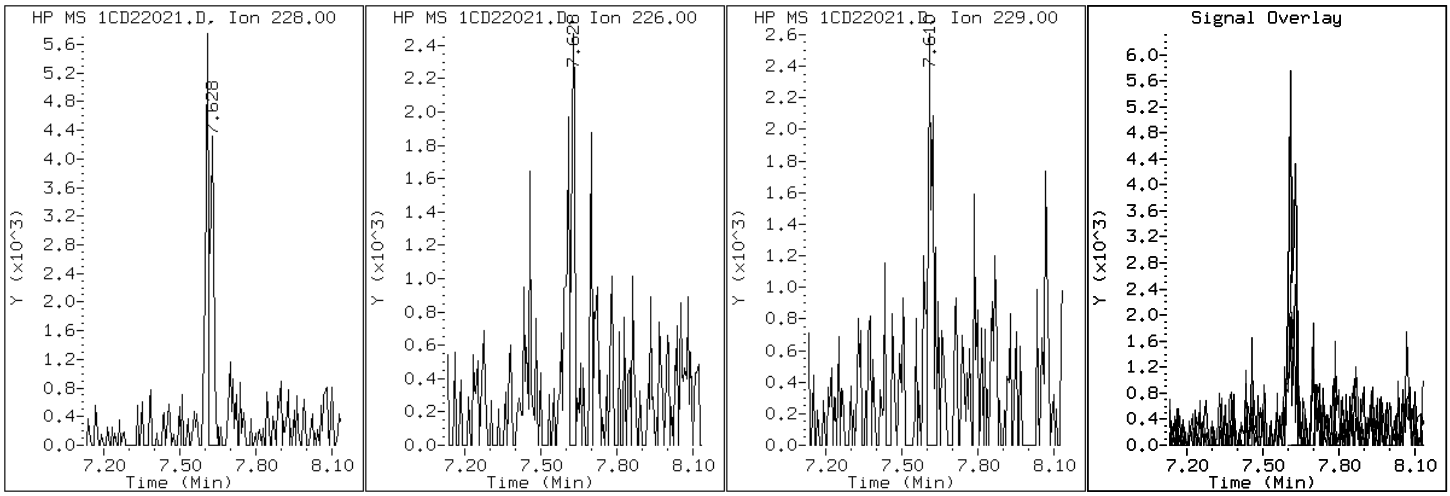
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

19 Chrysene



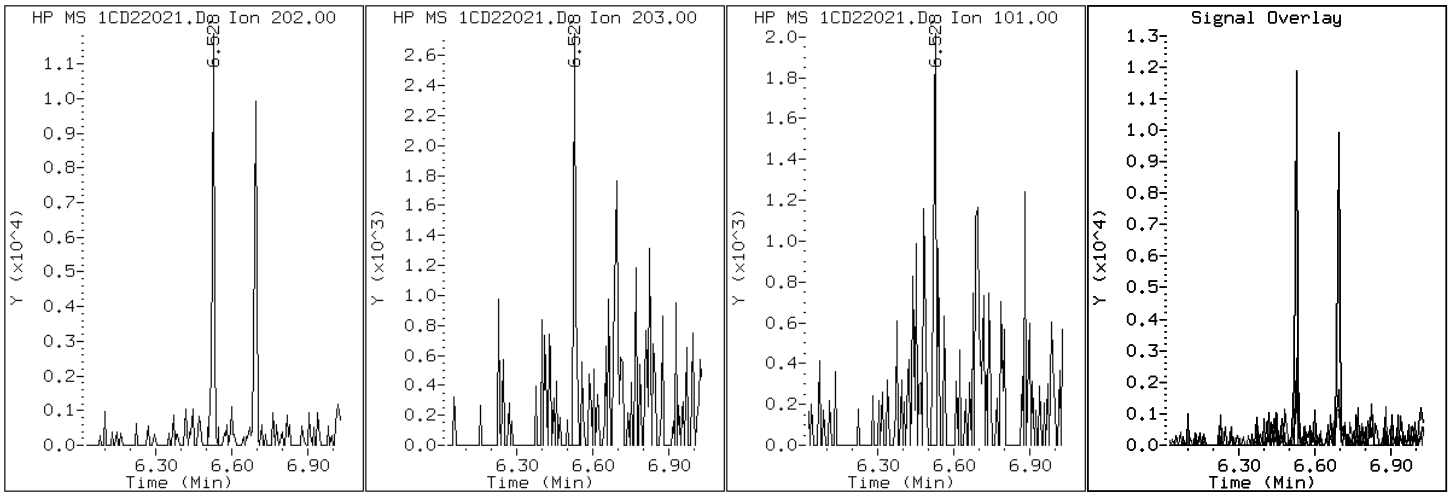
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

15 Fluoranthene



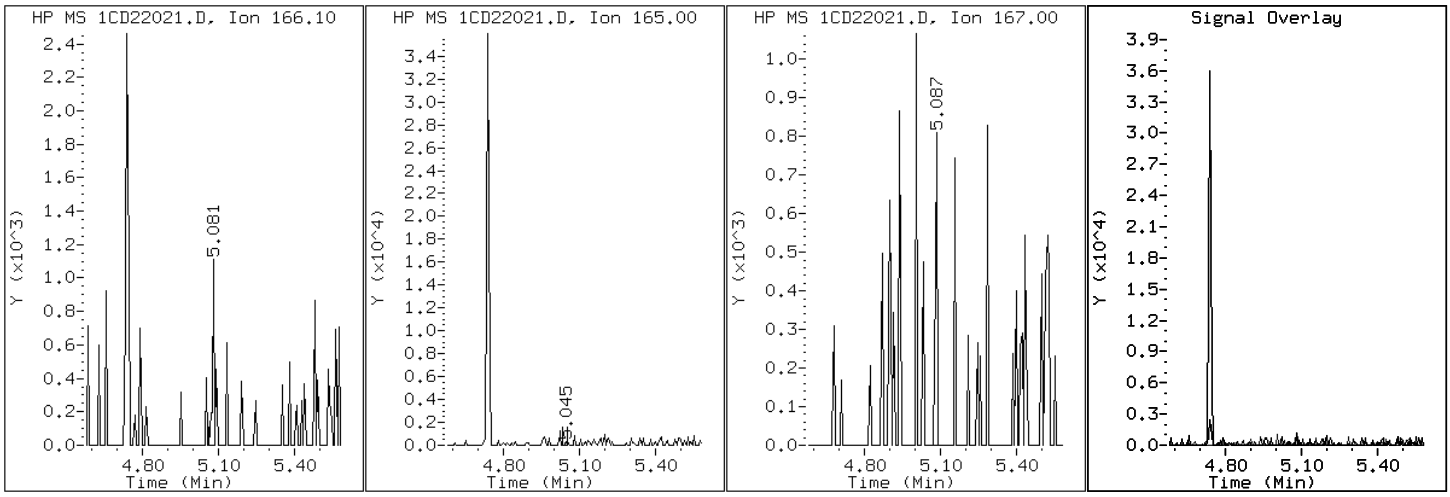
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

9 Fluorene



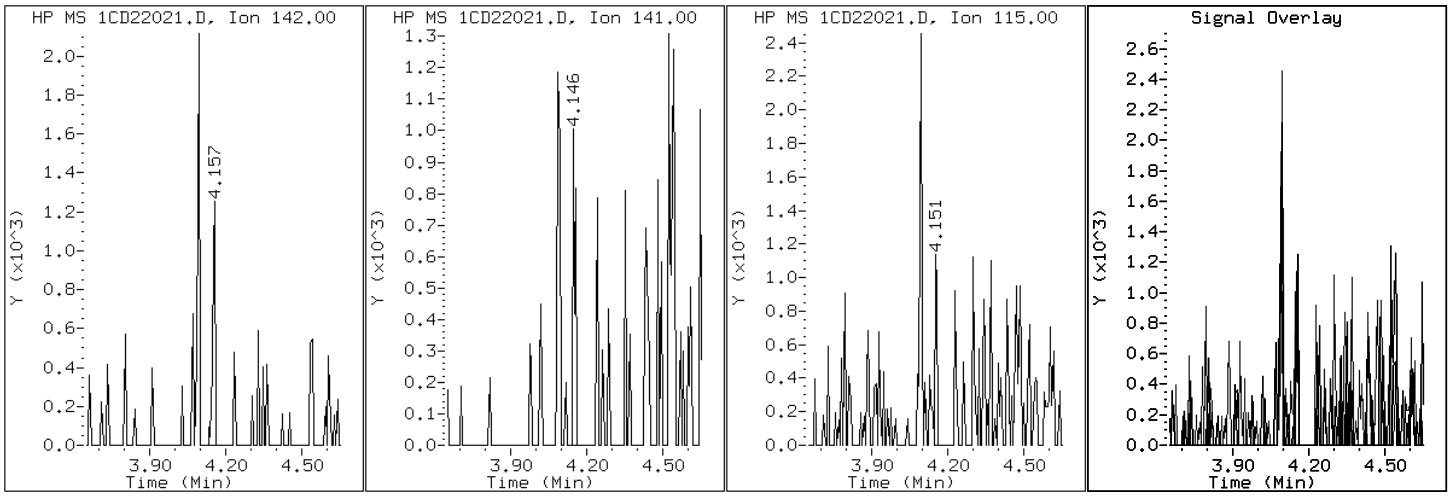
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

4 1-Methylnaphthalene



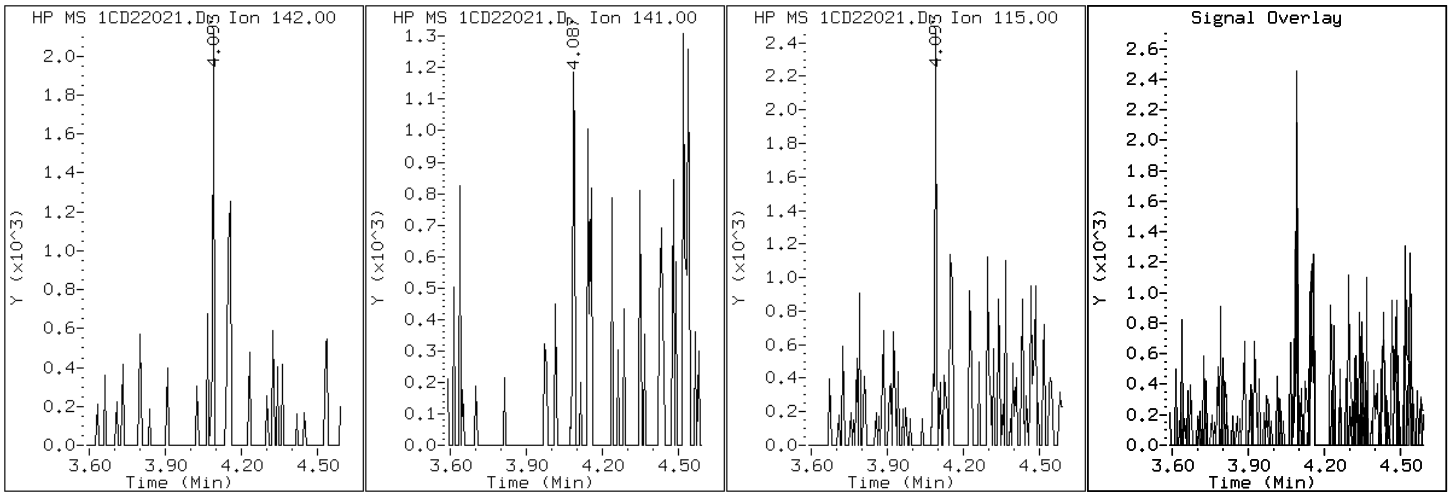
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

3 2-Methylnaphthalene



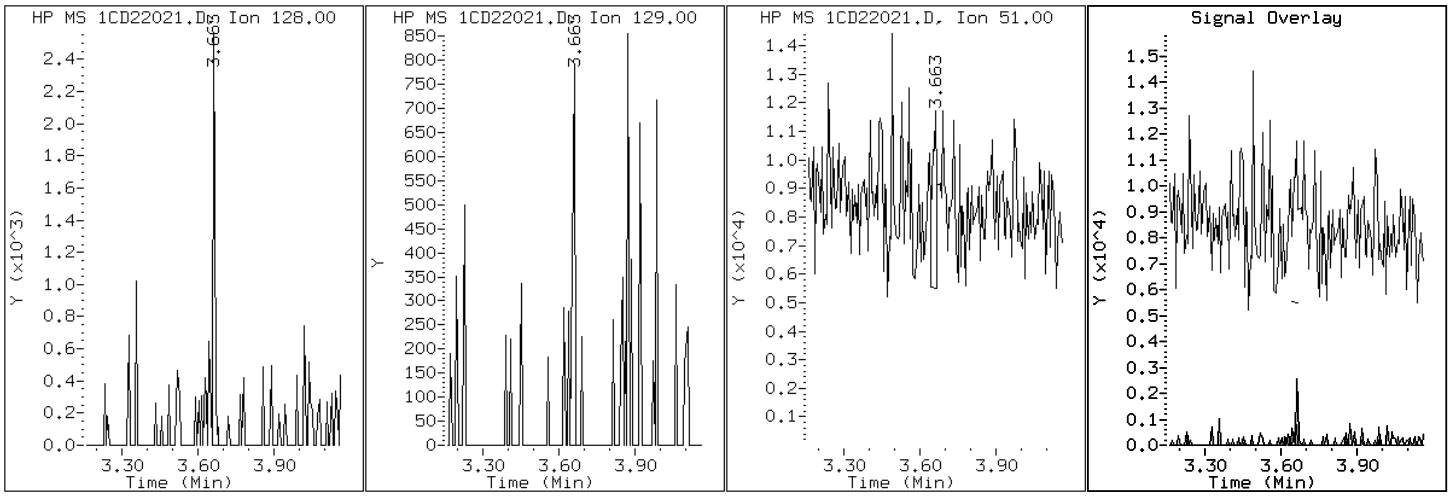
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

2 Naphthalene



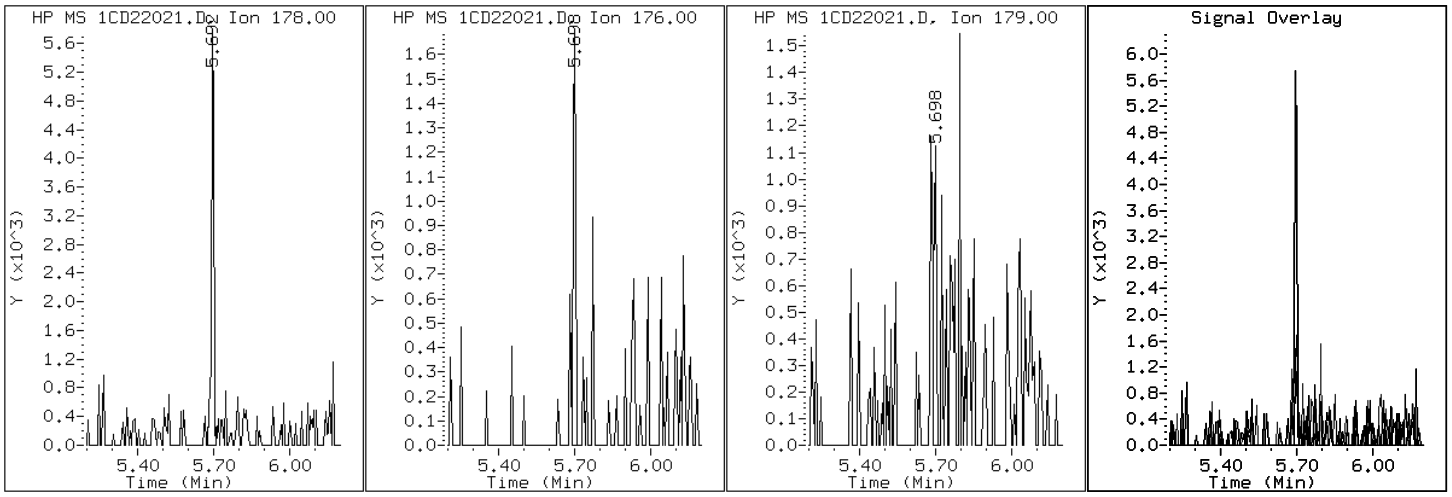
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

11 Phenanthrene



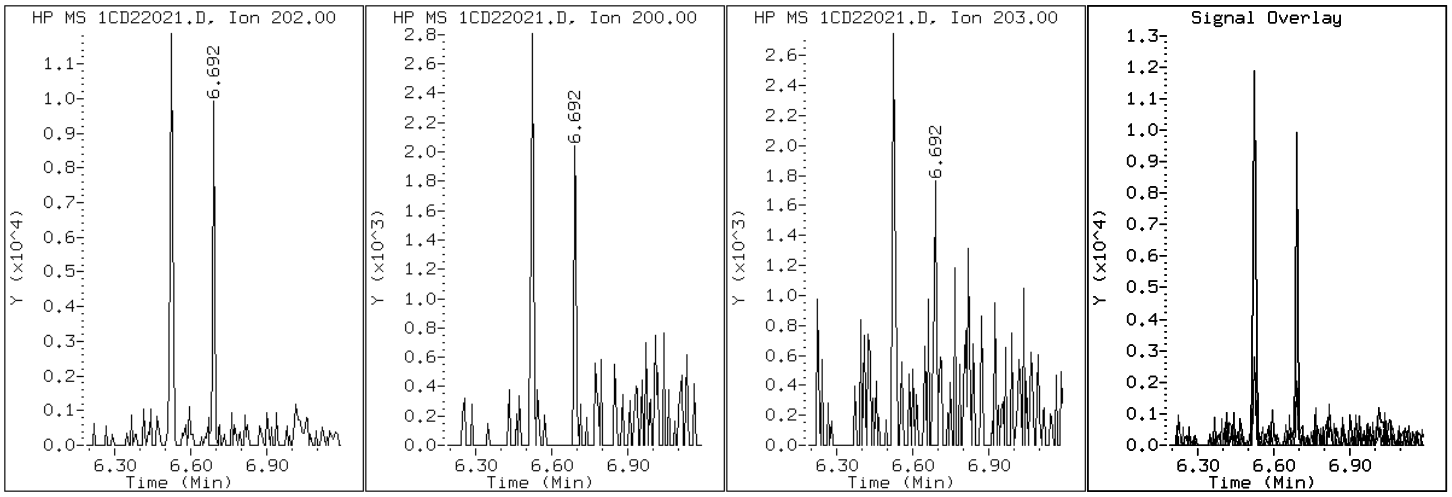
Data File: 1CD22021.D

Date: 22-APR-2013 18:05

Client ID: CV0745A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-4-a Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV0745B-CS-SP | Lab Sample ID: 680-89421-5

Matrix: Solid | Lab File ID: 1CD22022.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 13:45

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.11(g) | Date Analyzed: 04/22/2013 18:23

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

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

% Moisture: 14.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	15	J	46	5.8
120-12-7	Anthracene	32		9.8	4.9
56-55-3	Benzo[a]anthracene	150		9.3	4.5
50-32-8	Benzo[a]pyrene	140		12	6.0
205-99-2	Benzo[b]fluoranthene	330		14	7.1
191-24-2	Benzo[g,h,i]perylene	160		23	5.1
207-08-9	Benzo[k]fluoranthene	65		9.3	4.2
218-01-9	Chrysene	200		10	5.2
53-70-3	Dibenz(a,h)anthracene	79		23	4.8
206-44-0	Fluoranthene	250		23	4.6
86-73-7	Fluorene	21	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	130		23	8.2
90-12-0	1-Methylnaphthalene	94		46	5.1
91-57-6	2-Methylnaphthalene	180		46	8.2
91-20-3	Naphthalene	120		46	5.1
85-01-8	Phenanthrene	220		9.3	4.5
129-00-0	Pyrene	210		23	4.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22022.D
Lab Smp Id: 680-89421-A-5-A Client Smp ID: CV0745B-CS-SP
Inj Date : 22-APR-2013 18:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-5-a
Misc Info : 680-89421-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	14.480	% 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	3.651	3.651	(1.000)	217718	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	147562	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	280809	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.045)	26250	6.33472	490.2228
*	18 Chrysene-d12	240	7.615	7.615	(1.000)	322396	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	291785	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	9369	1.59194	123.1952(Q)
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	8333	2.38982	184.9404
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	4552	1.21087	93.7052
	5 Acenaphthylene	152	4.651	4.651	(0.981)	1210	0.19351	14.9754
	9 Fluorene	166	5.080	5.080	(1.072)	1301	0.27131	20.9956(Q)
	11 Phenanthrene	178	5.692	5.698	(1.002)	23332	2.83588	219.4590
	12 Anthracene	178	5.733	5.733	(1.009)	3389	0.41572	32.1709
	13 Carbazole	167	5.839	5.839	(1.028)	1899	0.25011	19.3554(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.527	6.527	(1.149)	28978	3.18107	246.1725
16 Pyrene	202	6.692	6.692	(0.879)	24573	2.67918	207.3329
17 Benzo(a)anthracene	228	7.603	7.603	(0.998)	17890	1.96233	151.8579
19 Chrysene	228	7.633	7.633	(1.002)	23351	2.58917	200.3672
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	31567	4.28332	331.4720(M)
21 Benzo(k)fluoranthene	252	8.450	8.456	(0.964)	7012	0.84084	65.0698(QMH)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	13576	1.78210	137.9104
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	8213	1.72459	133.4600(M)
25 Dibenzo(a,h)anthracene	278	9.874	9.886	(1.127)	4304	1.02306	79.1712
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	15012	2.10241	162.6984(M)

QC Flag Legend

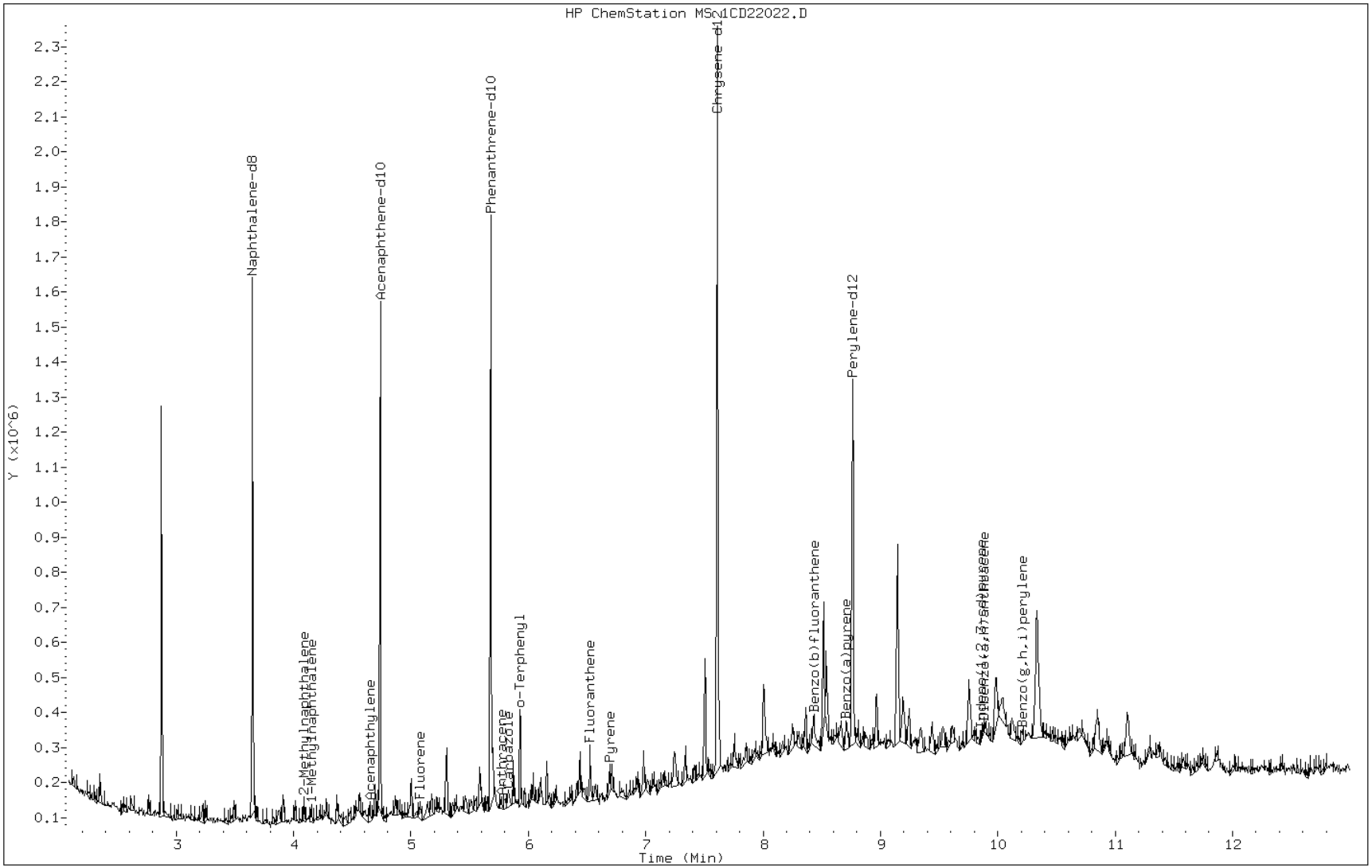
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC



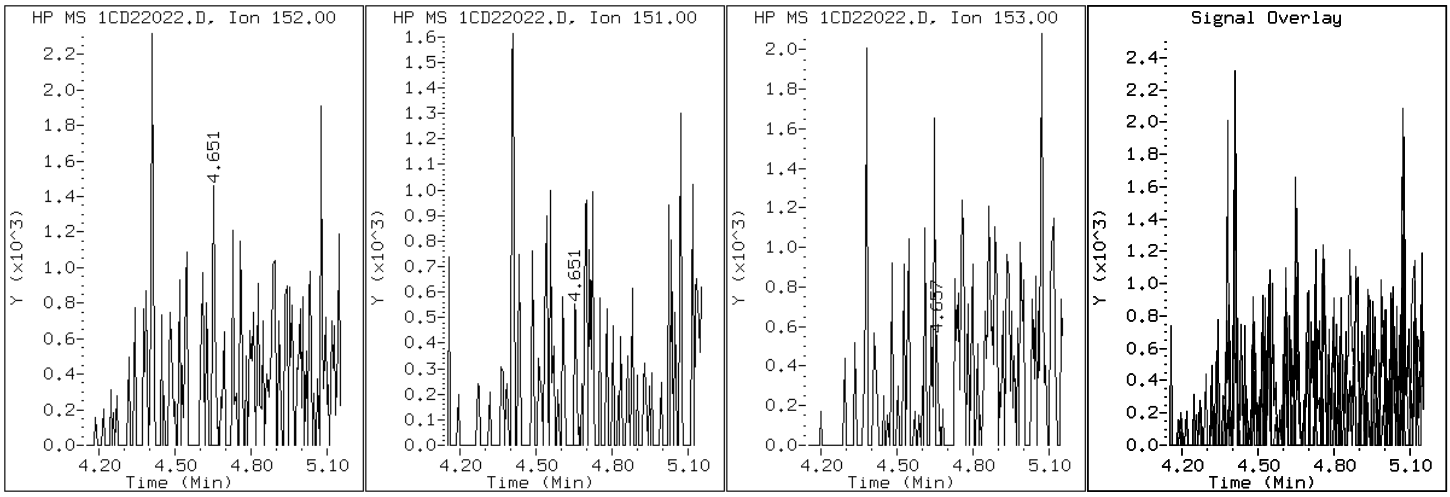
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

5 Acenaphthylene



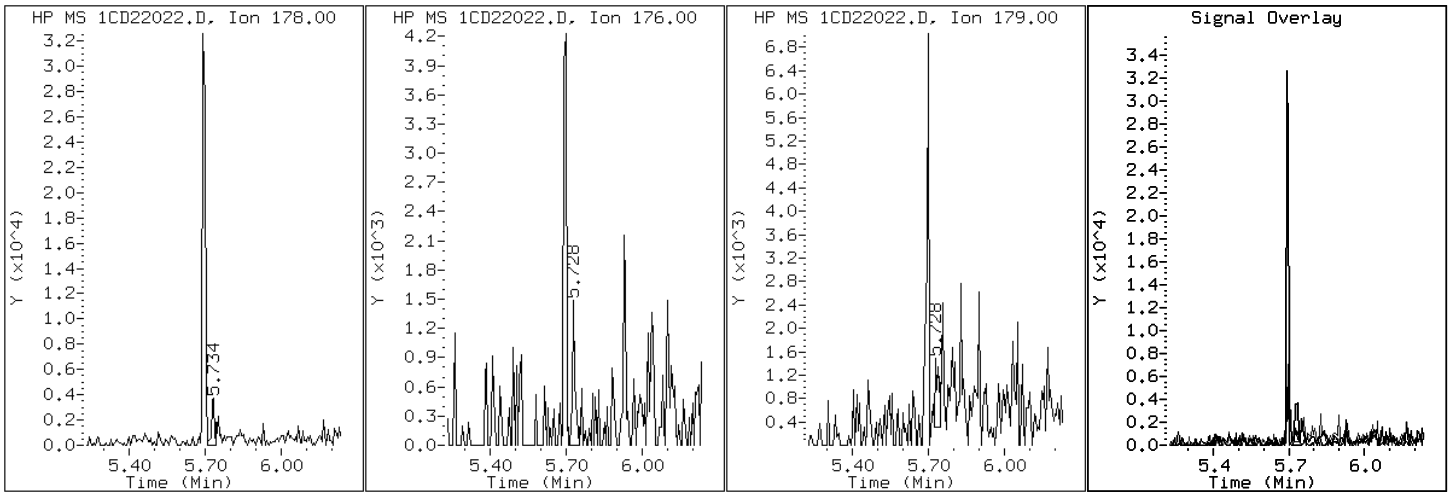
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

12 Anthracene



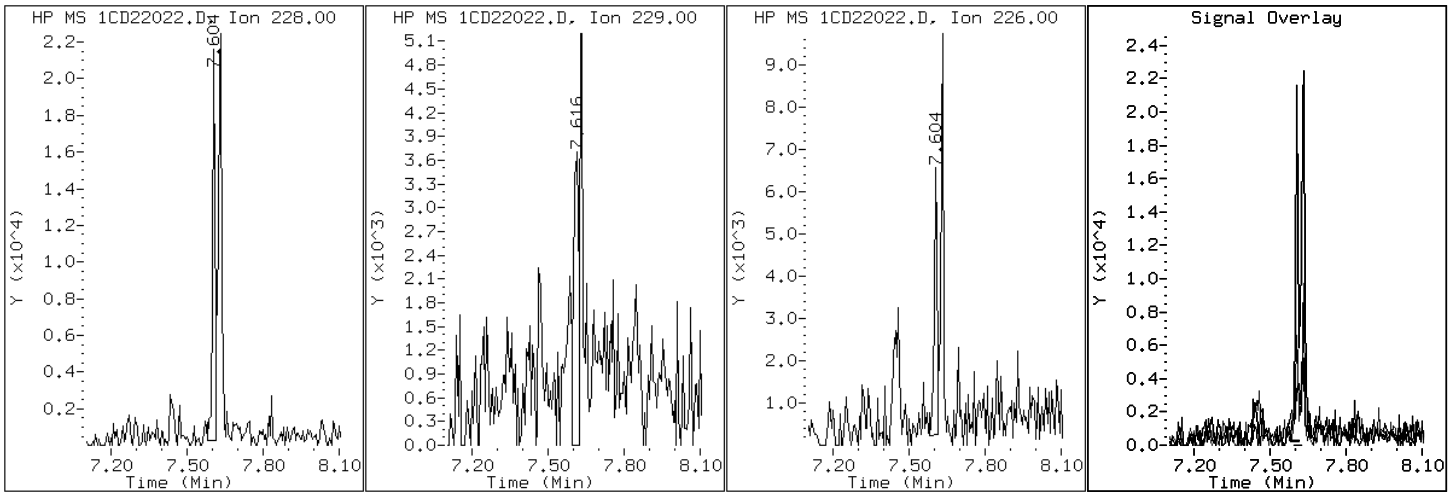
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

17 Benzo(a)anthracene



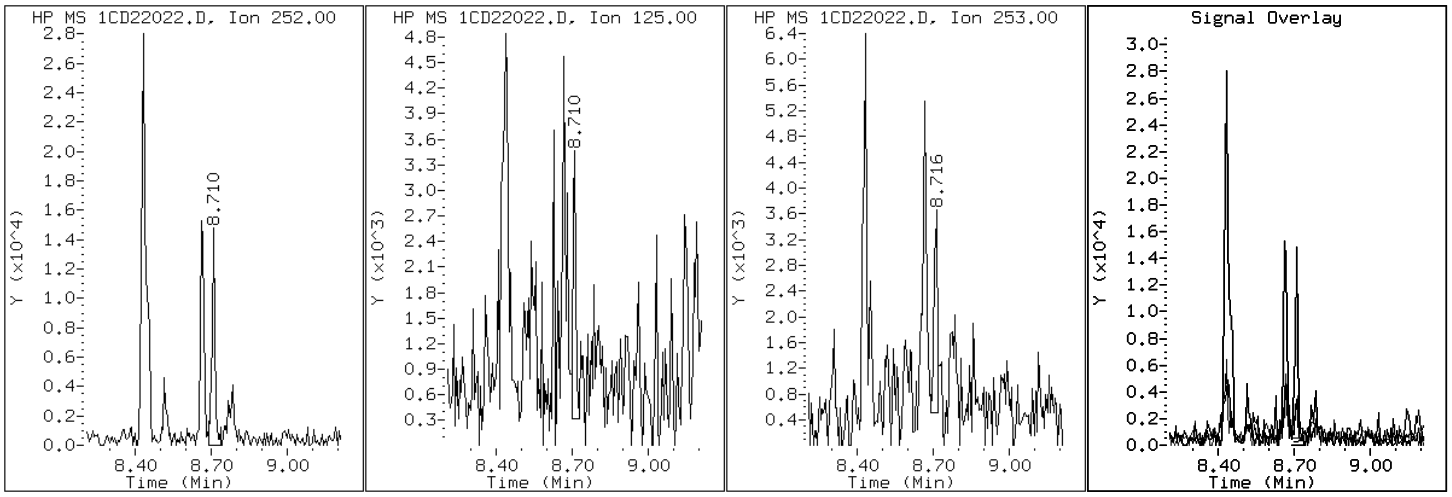
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

22 Benzo(a)pyrene



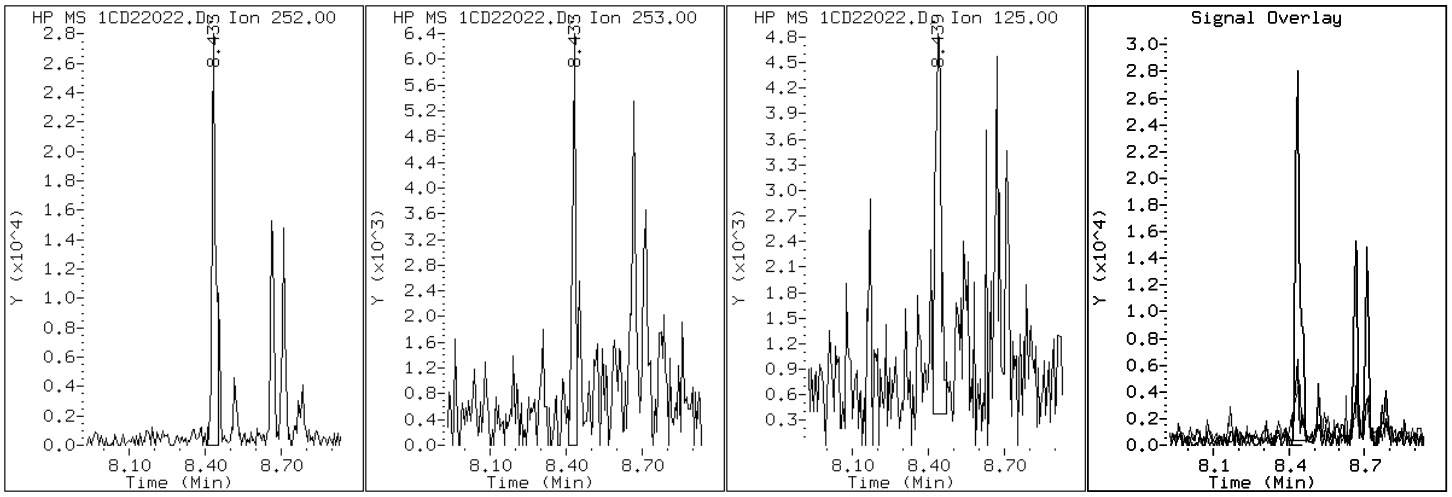
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



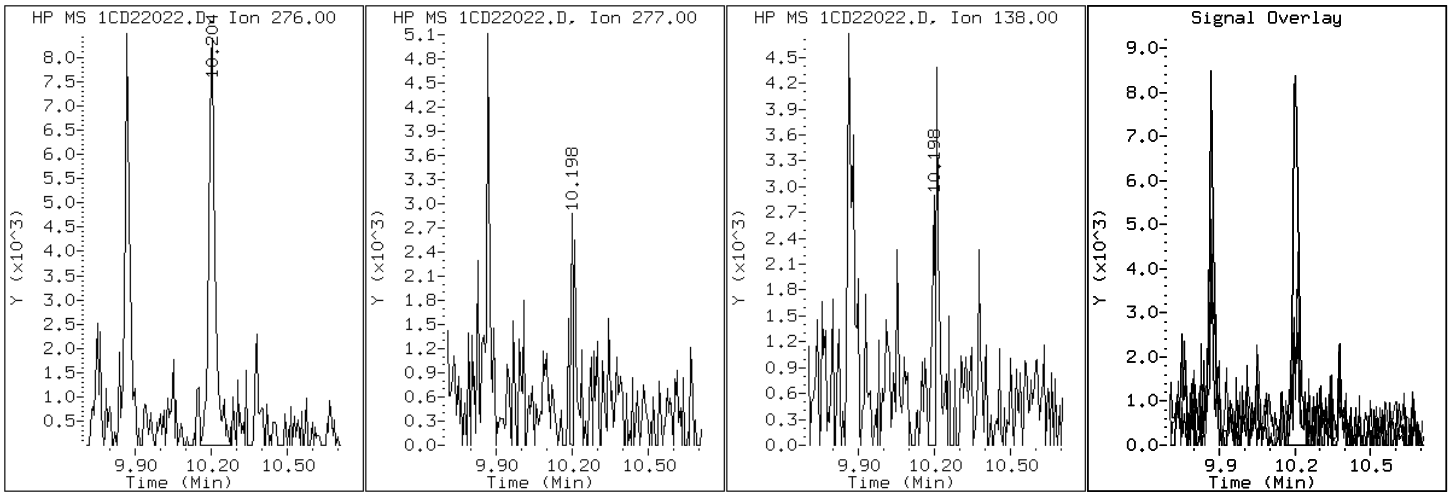
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



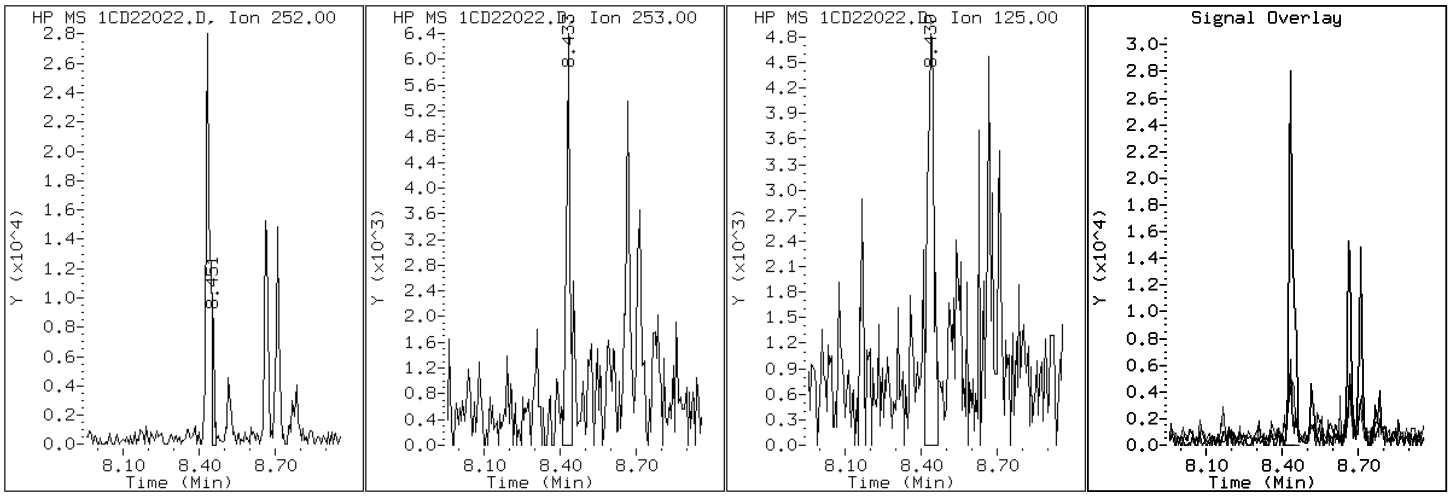
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



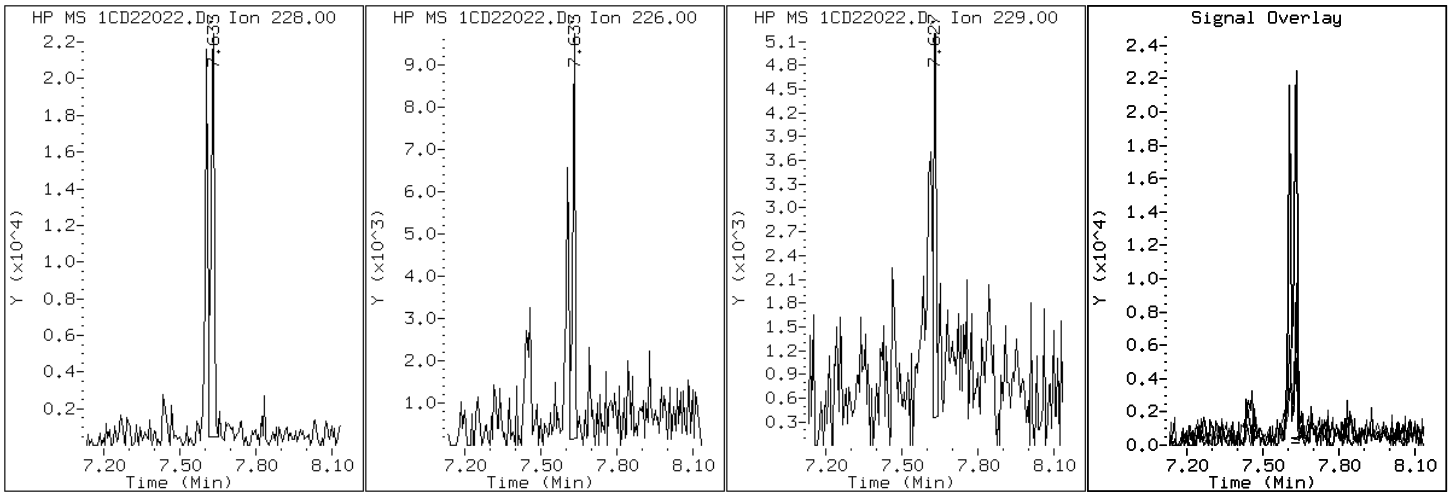
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

19 Chrysene



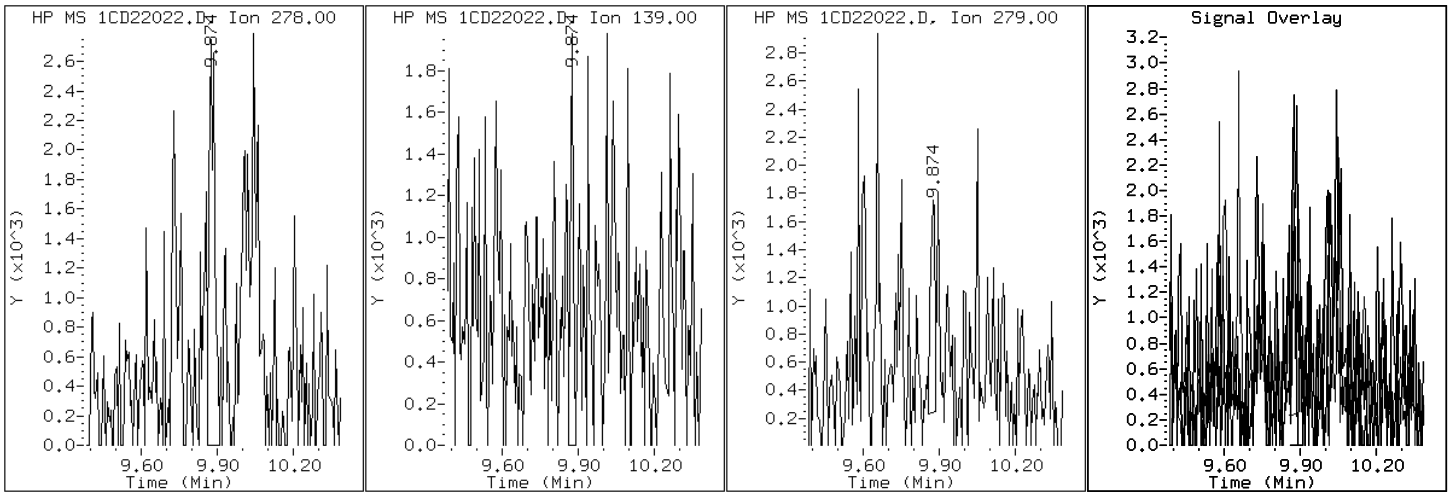
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



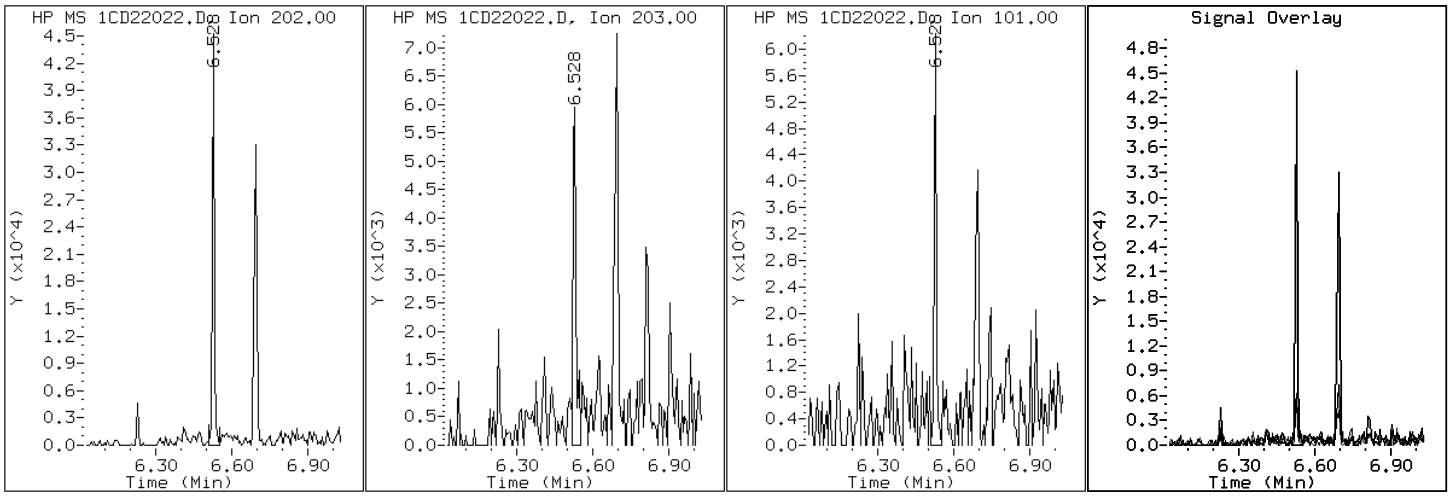
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

15 Fluoranthene



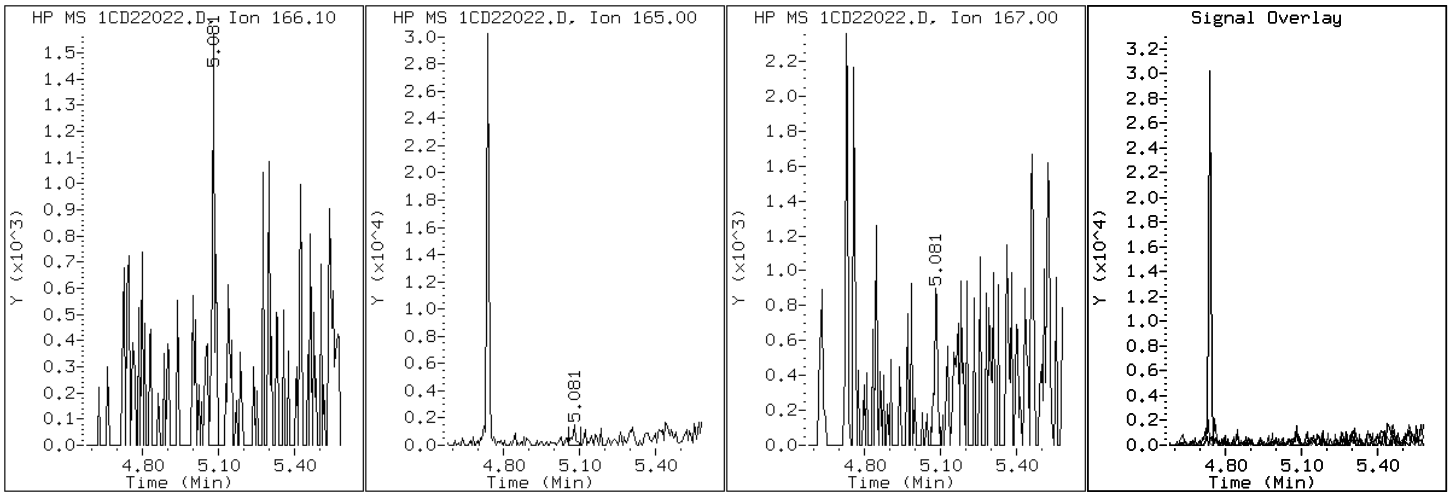
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

9 Fluorene



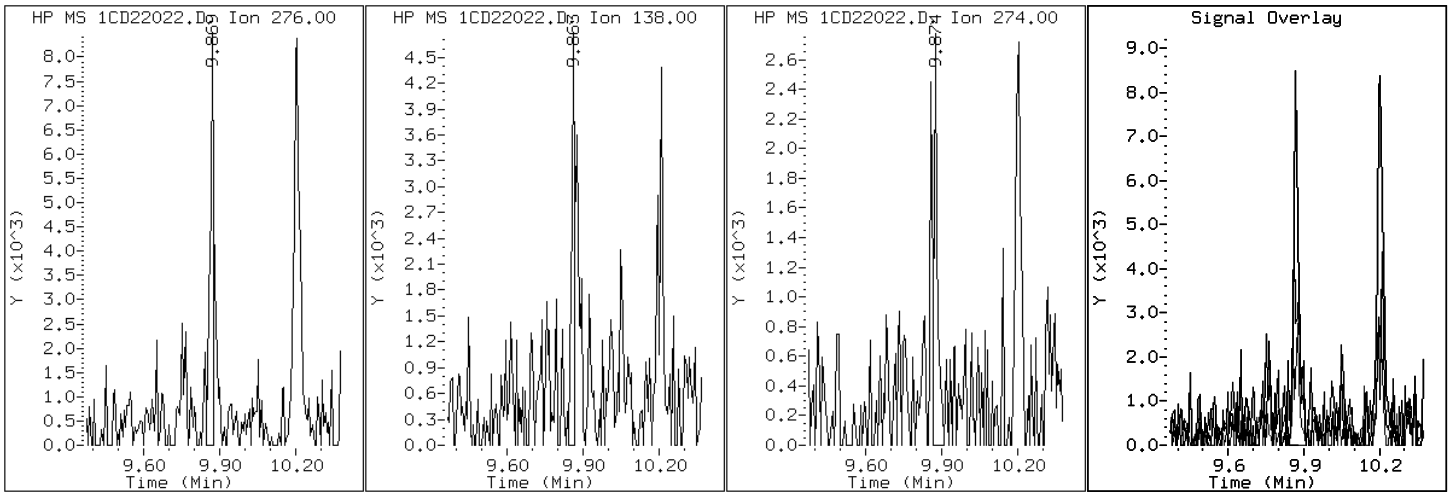
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

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



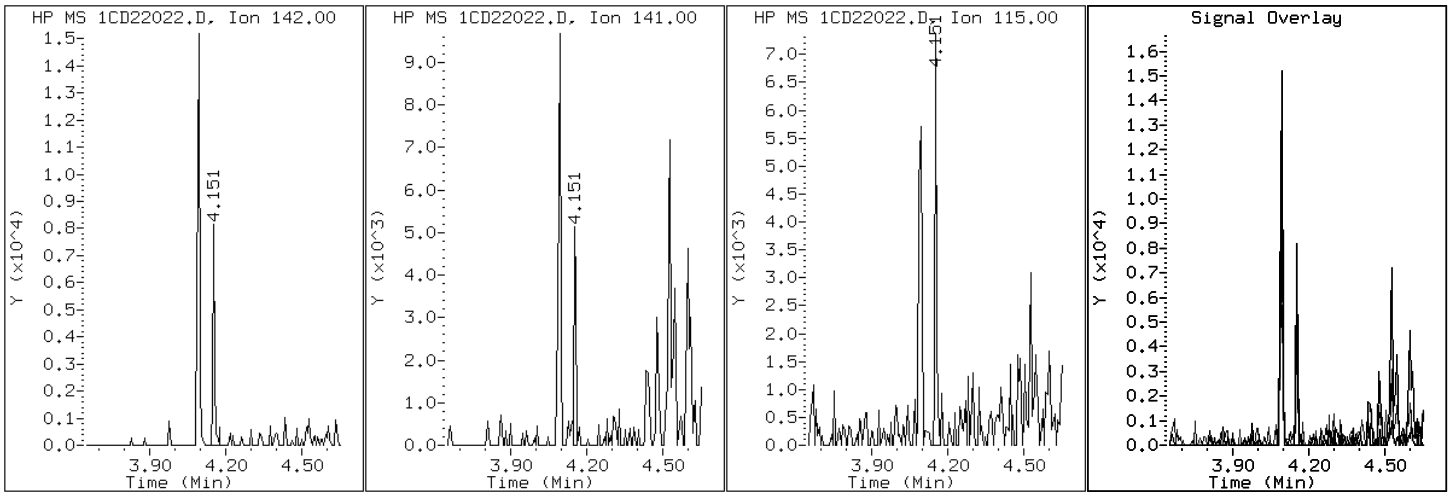
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

4 1-Methylnaphthalene



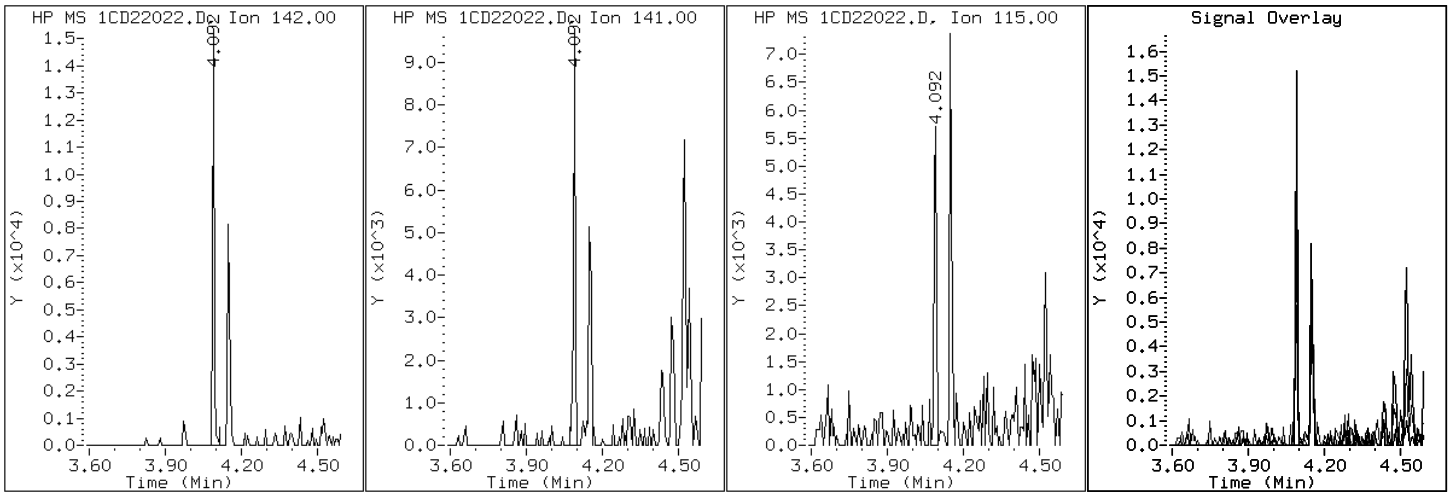
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

3 2-Methylnaphthalene



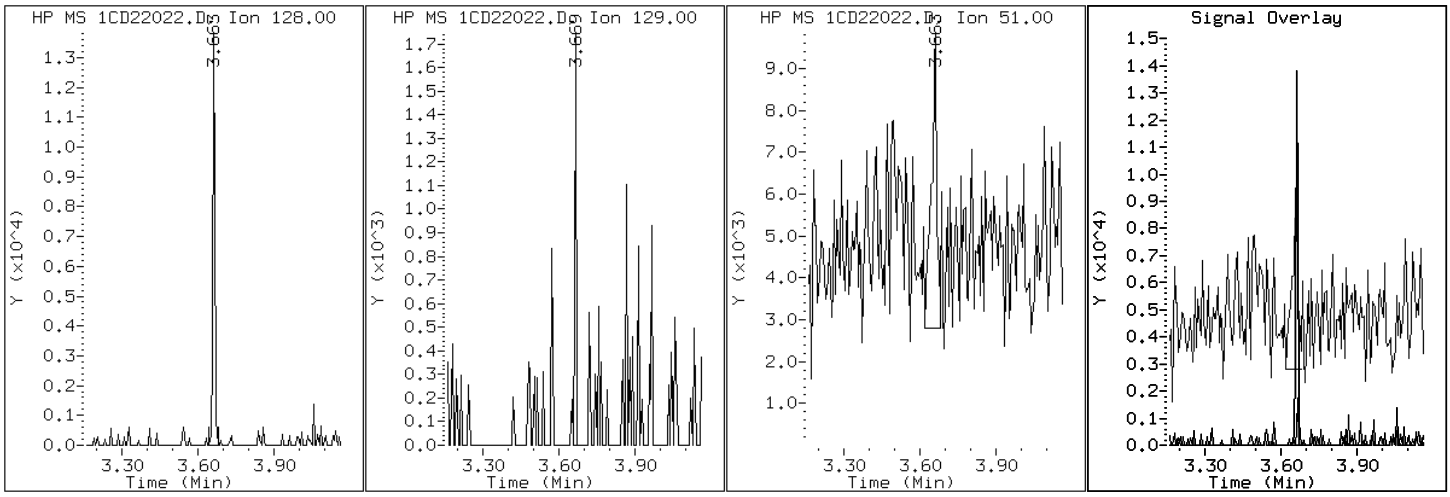
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

2 Naphthalene



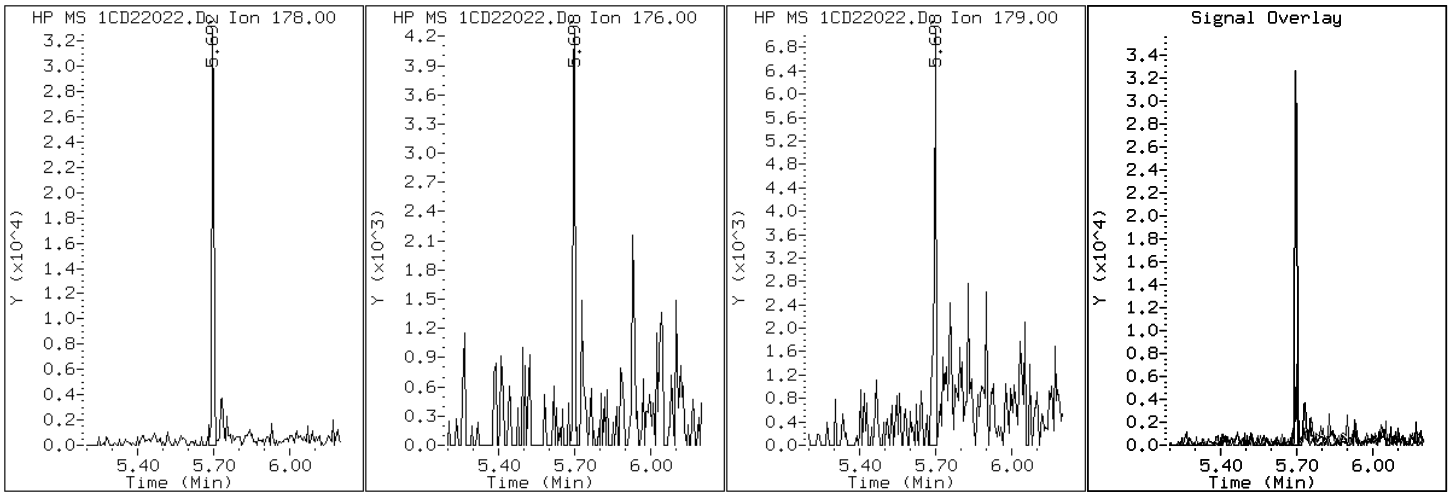
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

11 Phenanthrene



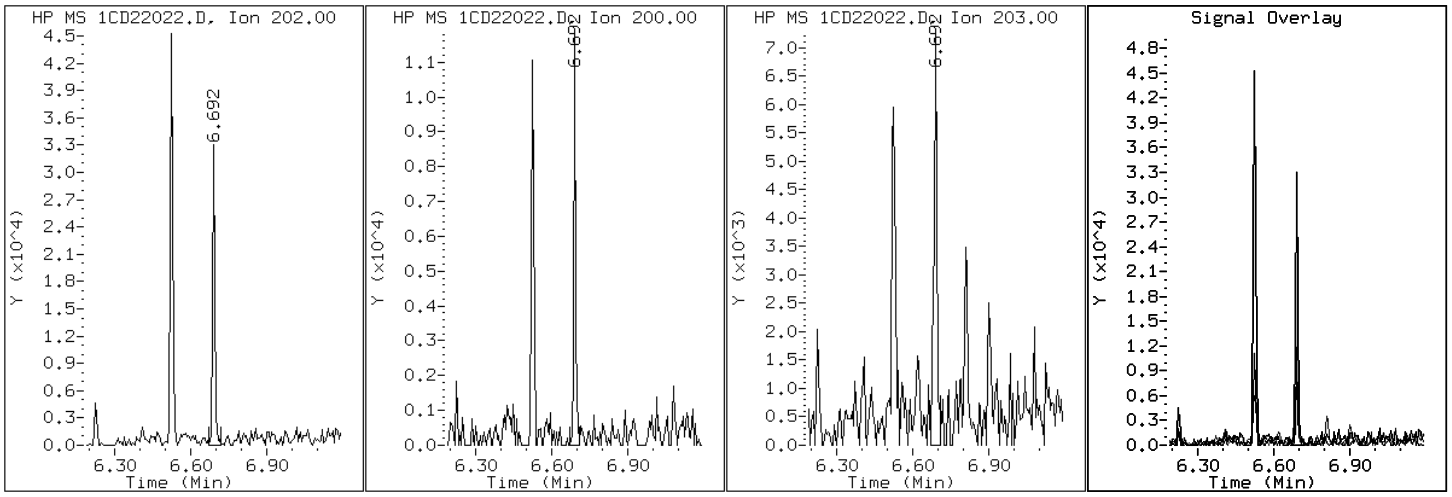
Data File: 1CD22022.D

Date: 22-APR-2013 18:23

Client ID: CV0745B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22022.D
Inj. Date and Time: 22-APR-2013 18:23
Instrument ID: BSMC5973.i
Client ID: CV0745B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

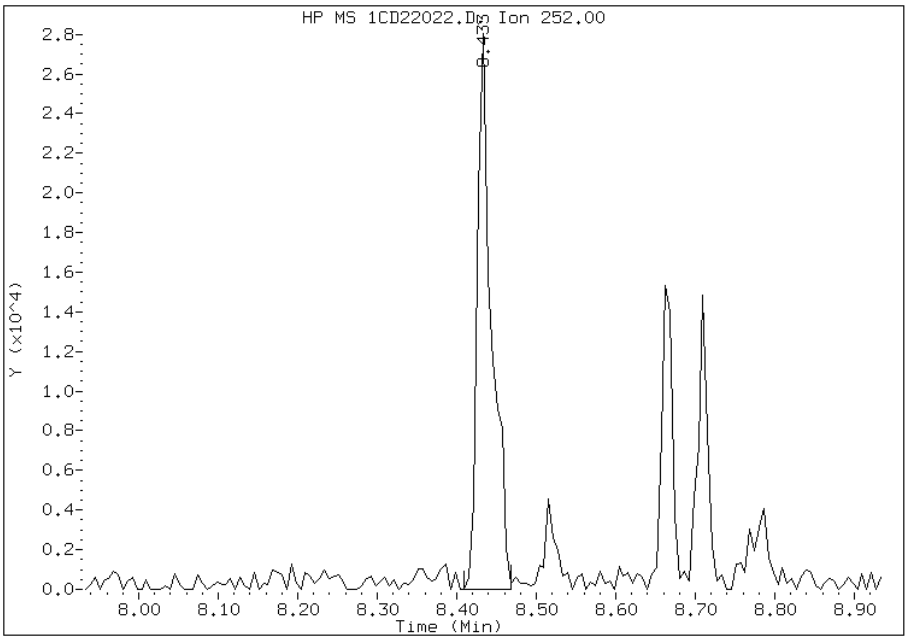
Processing Integration Results

RT: 8.43

Response: 35277

Amount: 5

Conc: 370



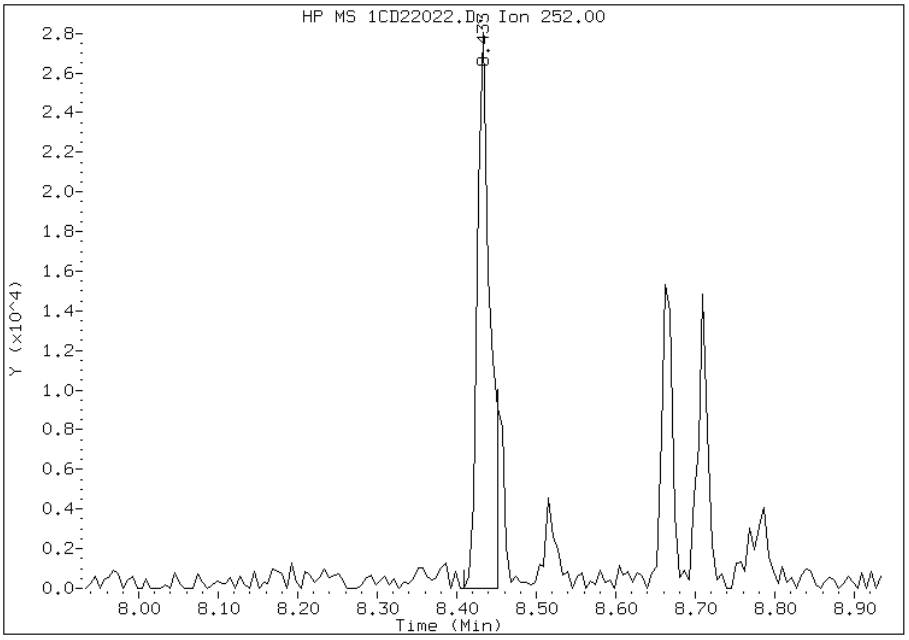
Manual Integration Results

RT: 8.43

Response: 31567

Amount: 4

Conc: 331



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22022.D
Inj. Date and Time: 22-APR-2013 18:23
Instrument ID: BSMC5973.i
Client ID: CV0745B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

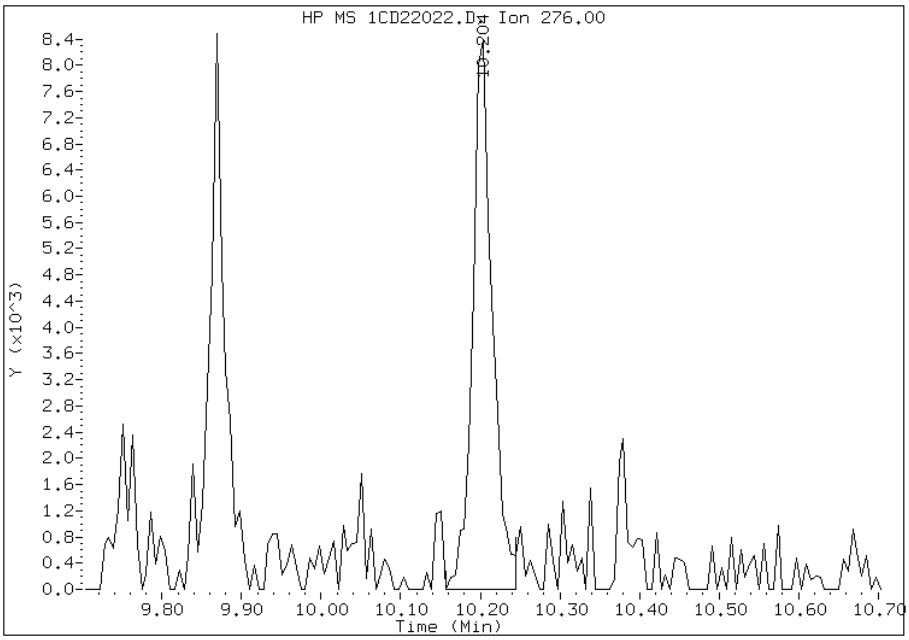
Processing Integration Results

RT: 10.20

Response: 14446

Amount: 2

Conc: 157



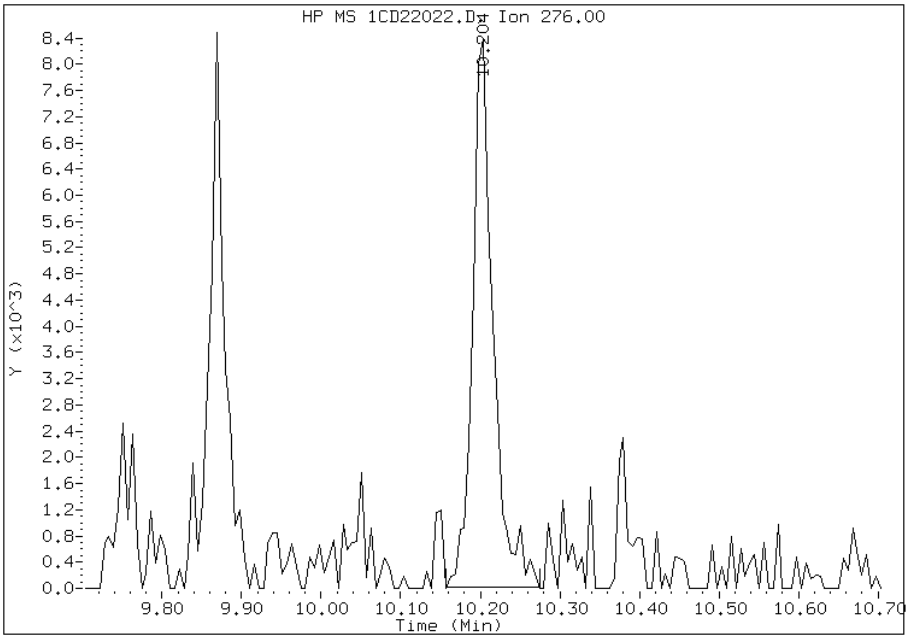
Manual Integration Results

RT: 10.20

Response: 15012

Amount: 2

Conc: 163



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22022.D
Inj. Date and Time: 22-APR-2013 18:23
Instrument ID: BSMC5973.i
Client ID: CV0745B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

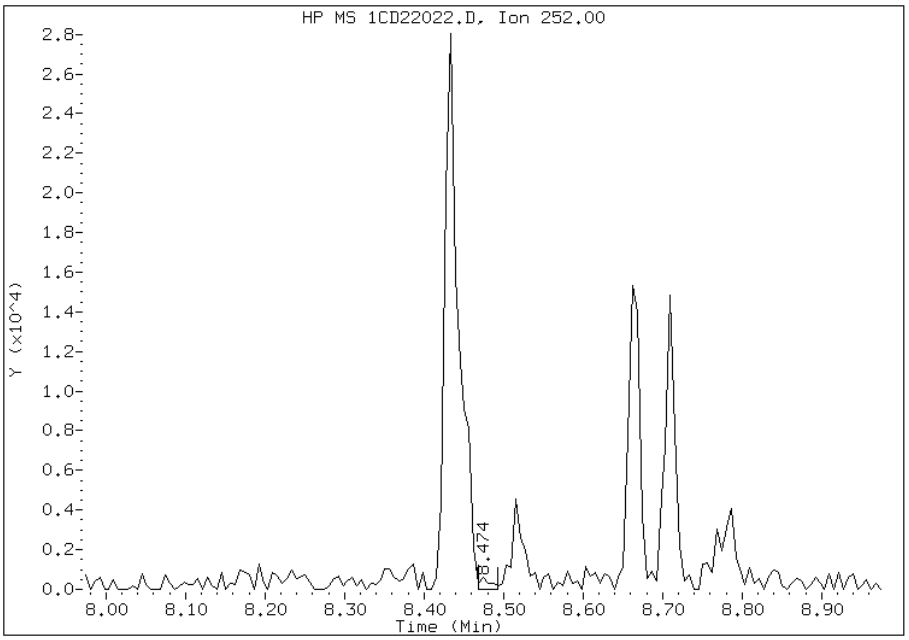
Processing Integration Results

RT: 8.47

Response: 603

Amount: 0

Conc: 6



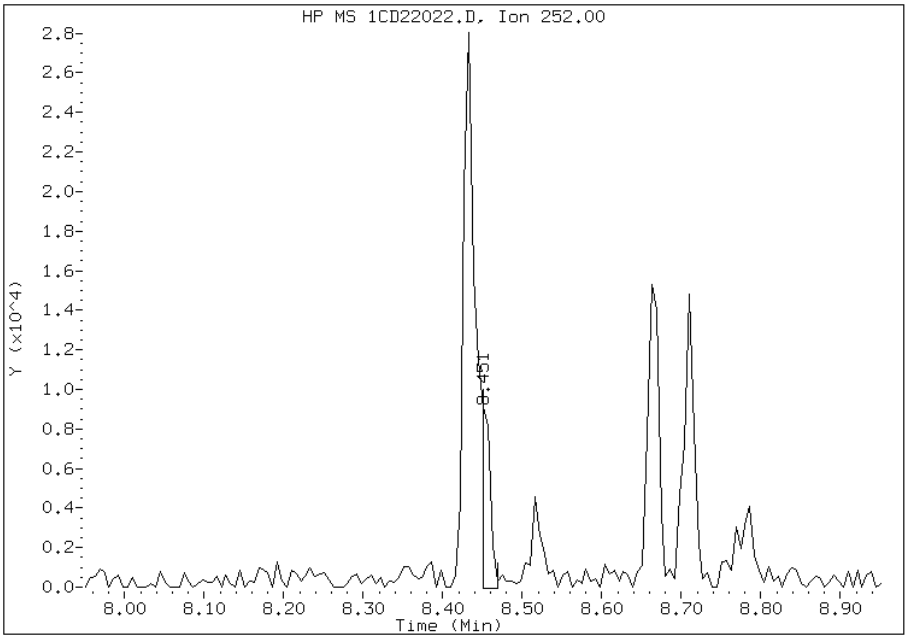
Manual Integration Results

RT: 8.45

Response: 7012

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22022.D
Inj. Date and Time: 22-APR-2013 18:23
Instrument ID: BSMC5973.i
Client ID: CV0745B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

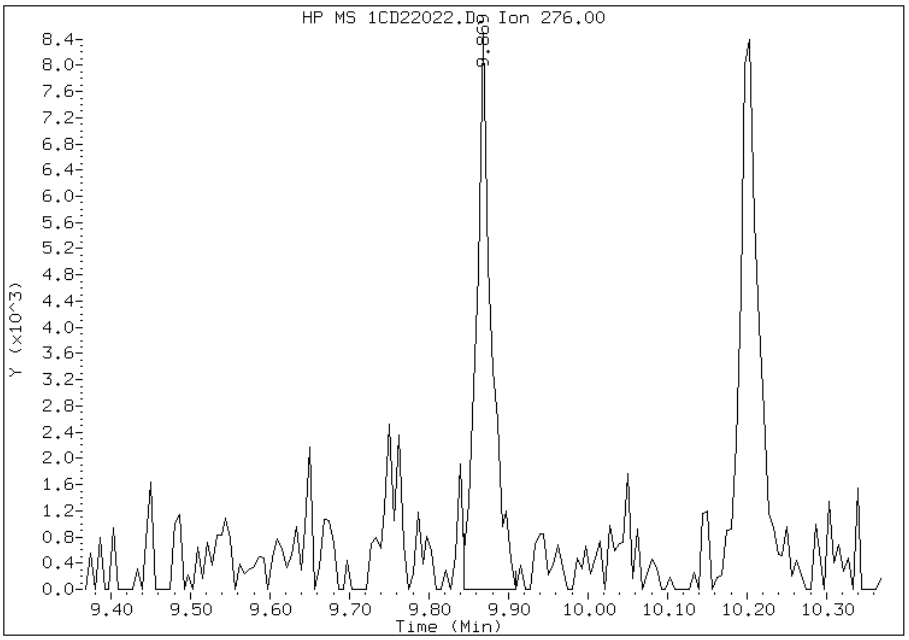
Processing Integration Results

RT: 9.87

Response: 11226

Amount: 2

Conc: 164



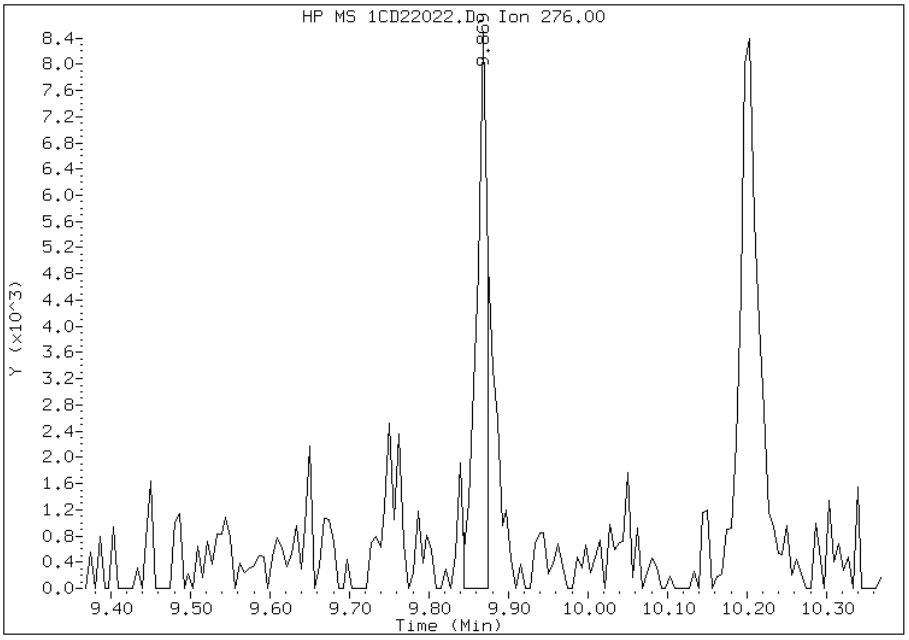
Manual Integration Results

RT: 9.87

Response: 8213

Amount: 2

Conc: 133



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: FM0060A-CS-SP | Lab Sample ID: 680-89421-6

Matrix: Solid | Lab File ID: 1CD22023.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 14:25

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.05(g) | Date Analyzed: 04/22/2013 18:41

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

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

% Moisture: 19.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	31	J	41	21
56-55-3	Benzo[a]anthracene	39	U	39	19
50-32-8	Benzo[a]pyrene	140		51	26
205-99-2	Benzo[b]fluoranthene	230		60	30
191-24-2	Benzo[g,h,i]perylene	170		98	22
207-08-9	Benzo[k]fluoranthene	120		39	18
218-01-9	Chrysene	150		44	22
53-70-3	Dibenz(a,h)anthracene	98	U	98	20
206-44-0	Fluoranthene	250		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	390		98	35
90-12-0	1-Methylnaphthalene	55	J	200	22
91-57-6	2-Methylnaphthalene	150	J	200	35
91-20-3	Naphthalene	55	J	200	22
85-01-8	Phenanthrene	39	U	39	19
129-00-0	Pyrene	340		98	18

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\1C042213.b\1CD22023.D
Lab Smp Id: 680-89421-A-6-A Client Smp ID: FM0060A-CS-SP
Inj Date : 22-APR-2013 18:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-6-a
Misc Info : 680-89421-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	19.048	% 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	3.651	3.651	(1.000)	214526	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	143528	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	271772	40.0000	
$	14 o-Terphenyl	230	5.927	5.933	(1.043)	5868	1.99353	654.5109
*	18 Chrysene-d12	240	7.609	7.615	(1.000)	292801	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	285586	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	974	0.16796	55.1444(Q)
	3 2-Methylnaphthalene	142	4.086	4.092	(1.119)	695	0.45192	148.3722
	4 1-Methylnaphthalene	142	4.157	4.151	(1.139)	626	0.16900	55.4853(Q)
	12 Anthracene	178	5.727	5.733	(1.008)	741	0.09392	30.8350(Q)
	13 Carbazole	167	5.839	5.839	(1.028)	879	0.11962	39.2737(Q)
	15 Fluoranthene	202	6.527	6.527	(1.149)	6583	0.74668	245.1485
	16 Pyrene	202	6.692	6.692	(0.879)	8502	1.02066	335.1013
	19 Chrysene	228	7.633	7.633	(1.003)	3828	0.46735	153.4398(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	5083	0.70468	231.3596
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	2963	0.36302	119.1855
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	3231	0.43333	142.2709(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.862	9.874	(1.126)	4000	1.17940	387.2182(M)
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	3618	0.51769	169.9680(QMH)

QC Flag Legend

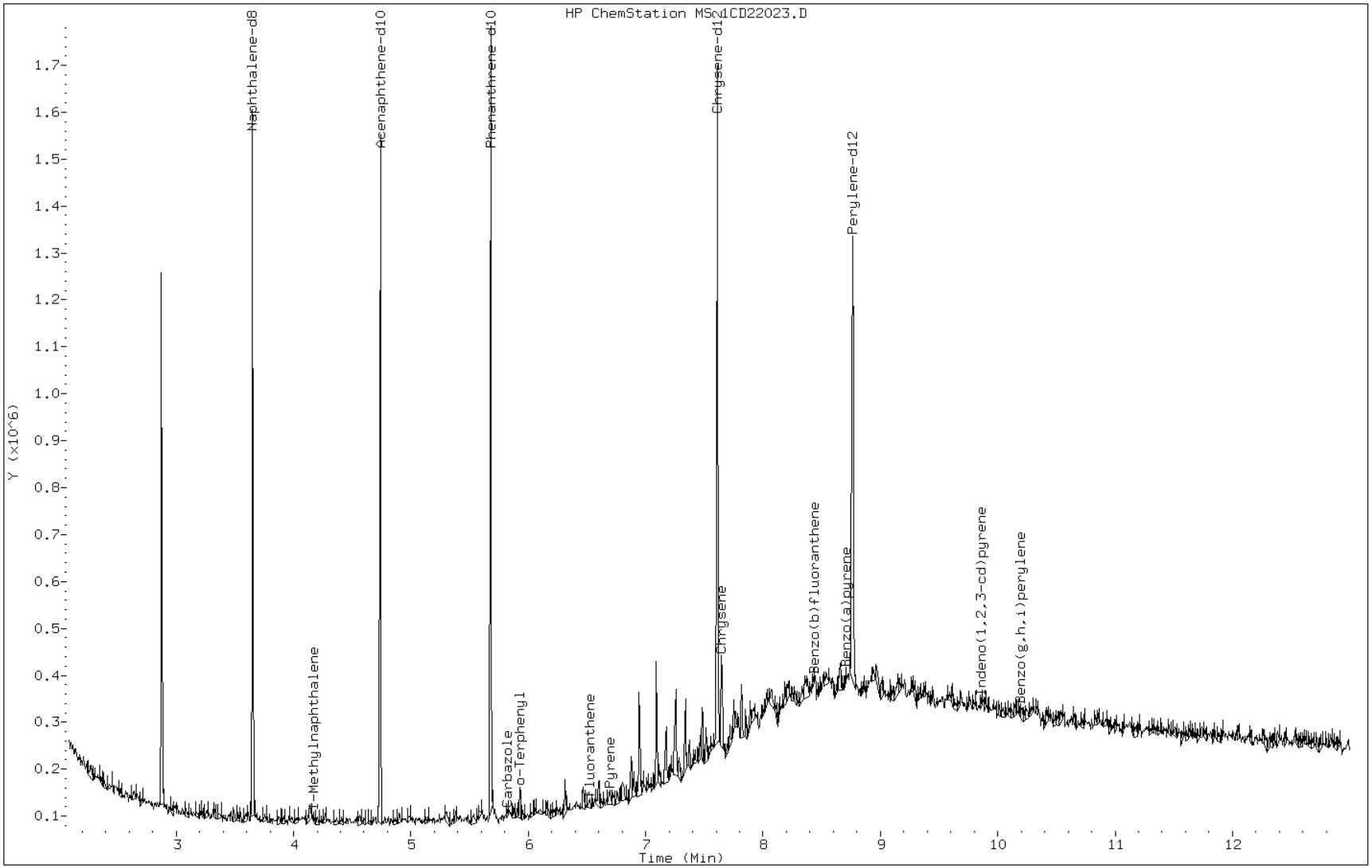
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC



Data File: 1CD22023.D

Date: 22-APR-2013 18:41

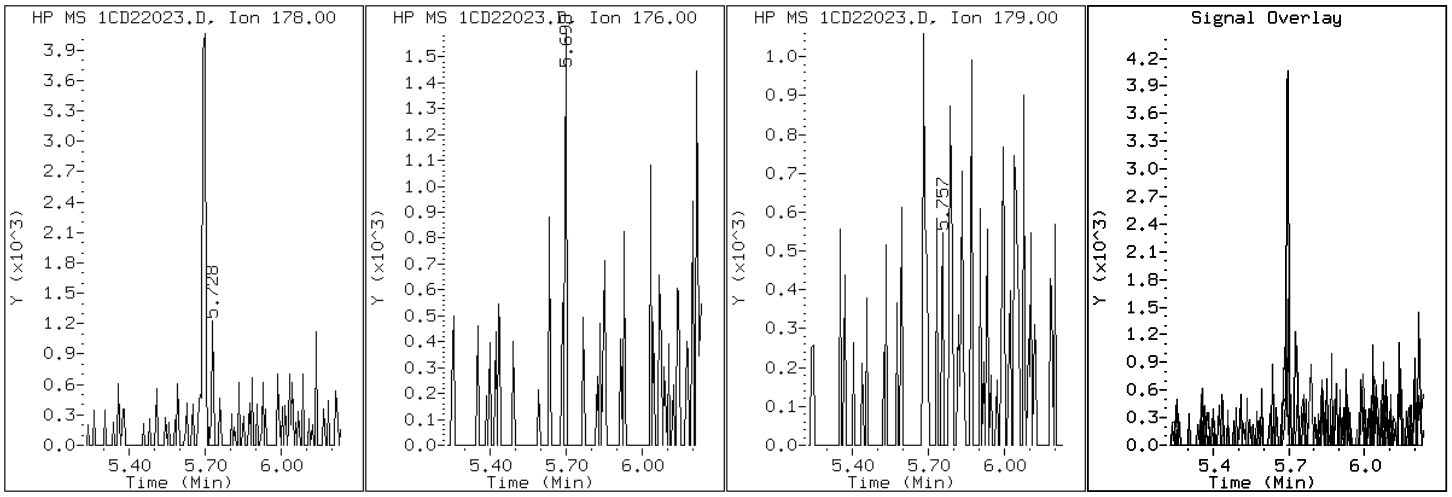
Client ID: FM0060A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a

Operator: SCC

12 Anthracene



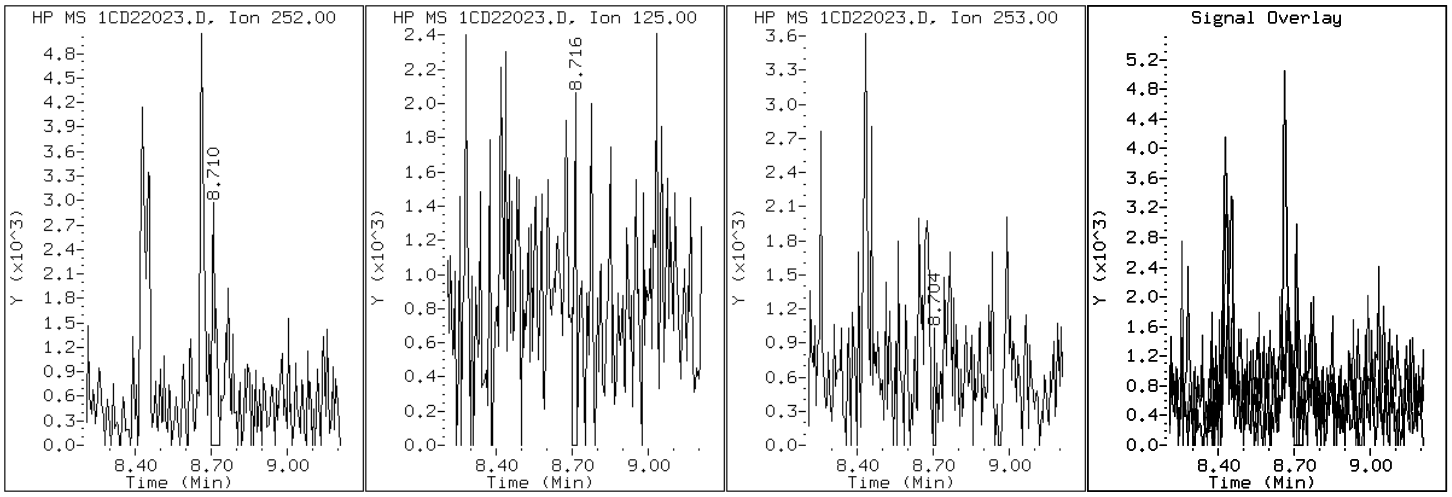
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

22 Benzo(a)pyrene



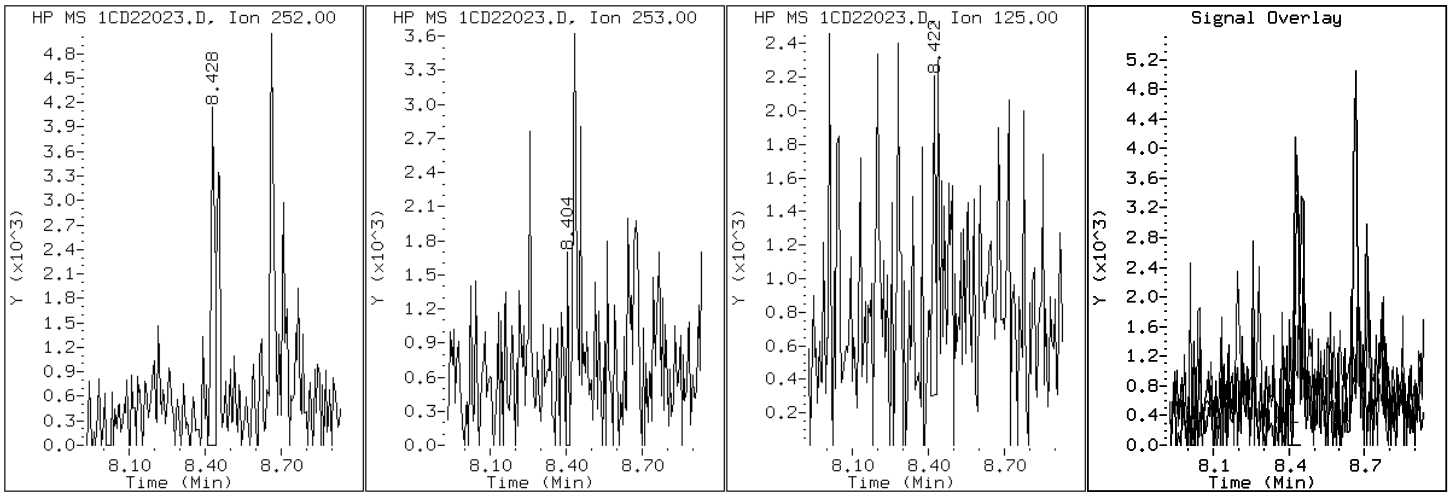
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



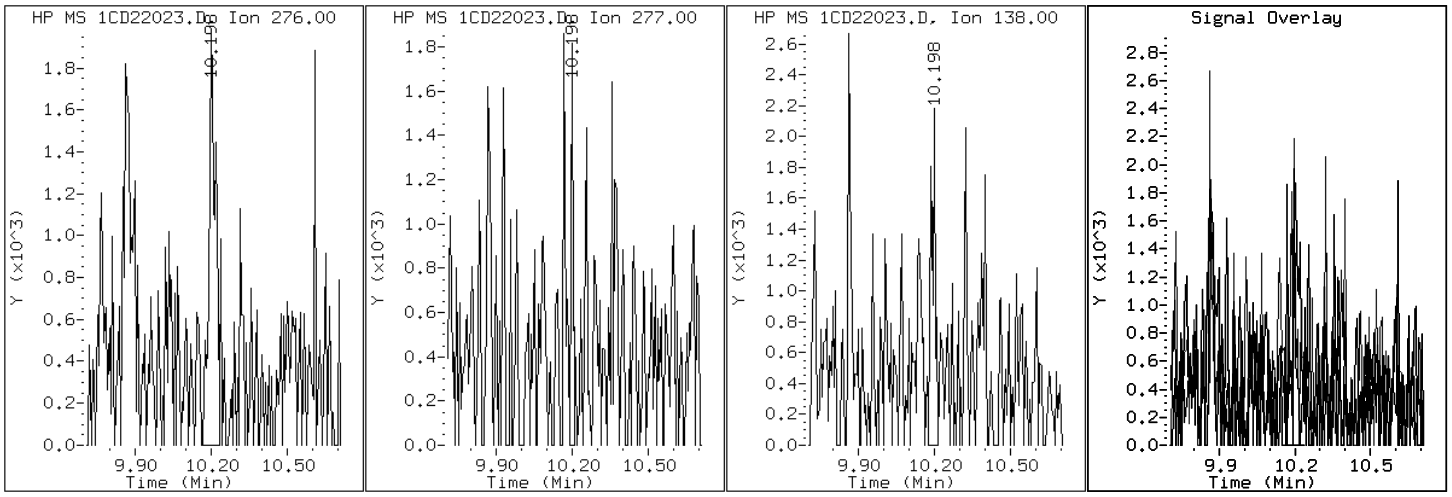
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



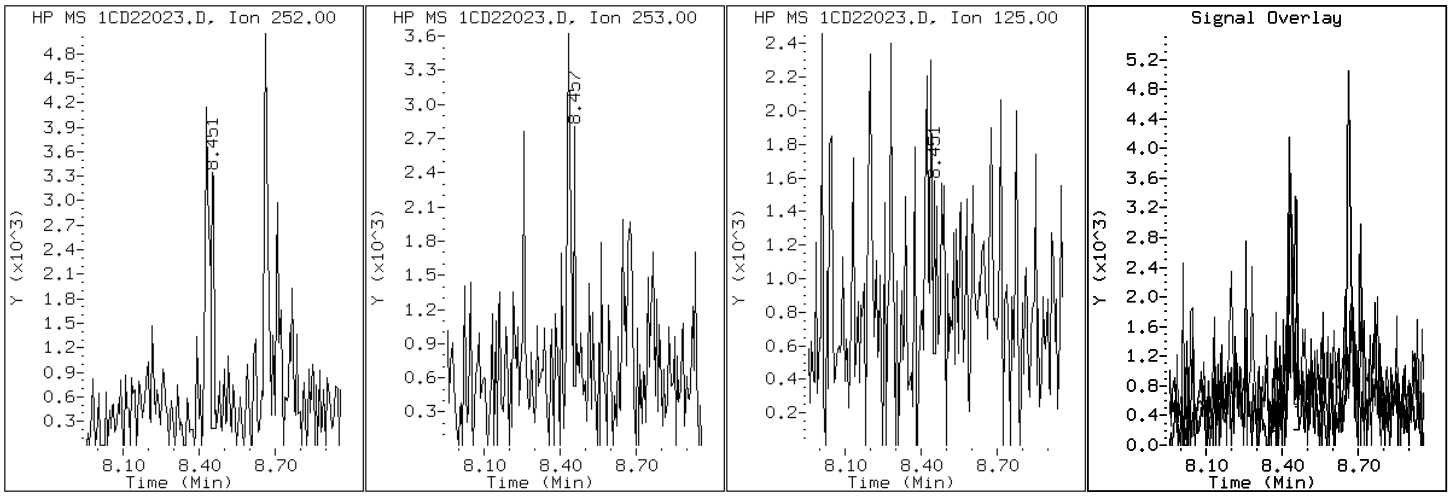
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



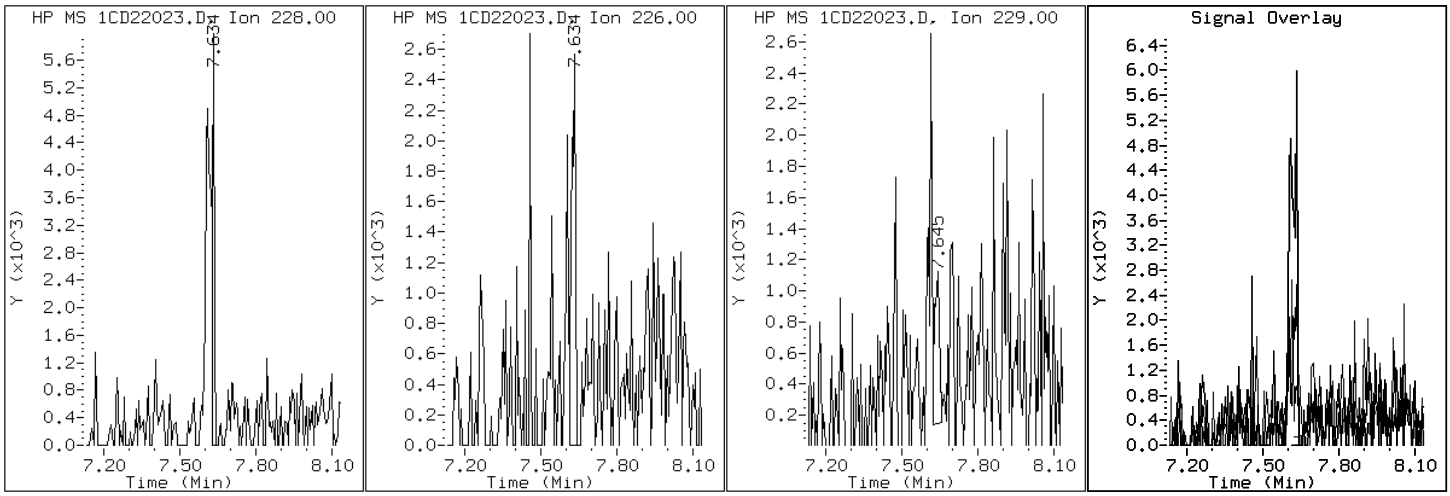
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

19 Chrysene



Data File: 1CD22023.D

Date: 22-APR-2013 18:41

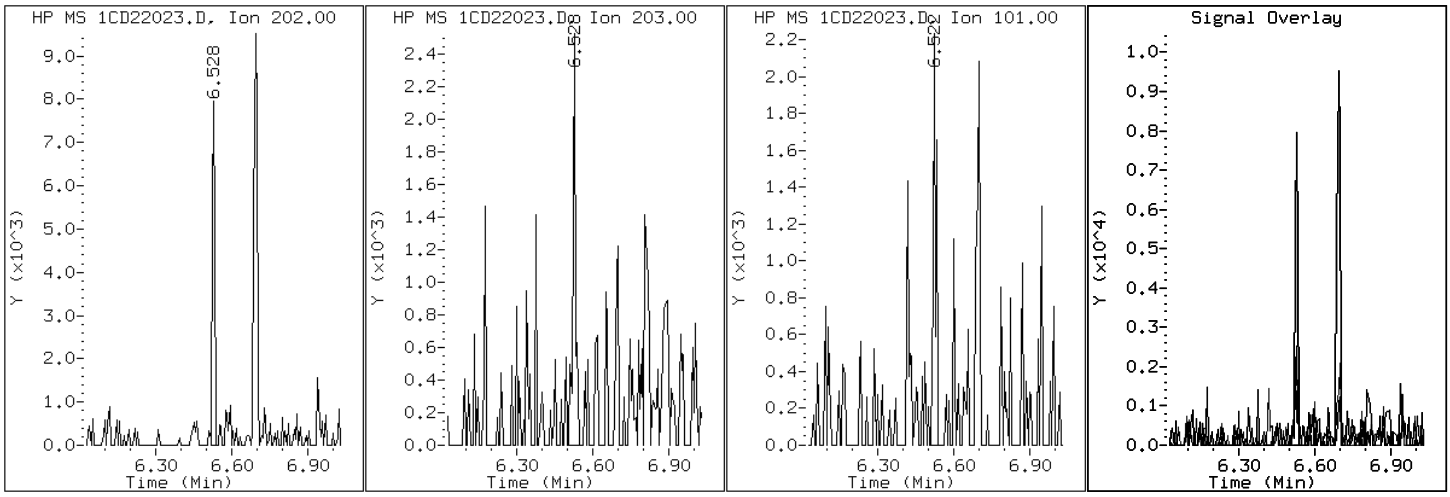
Client ID: FM0060A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a

Operator: SCC

15 Fluoranthene



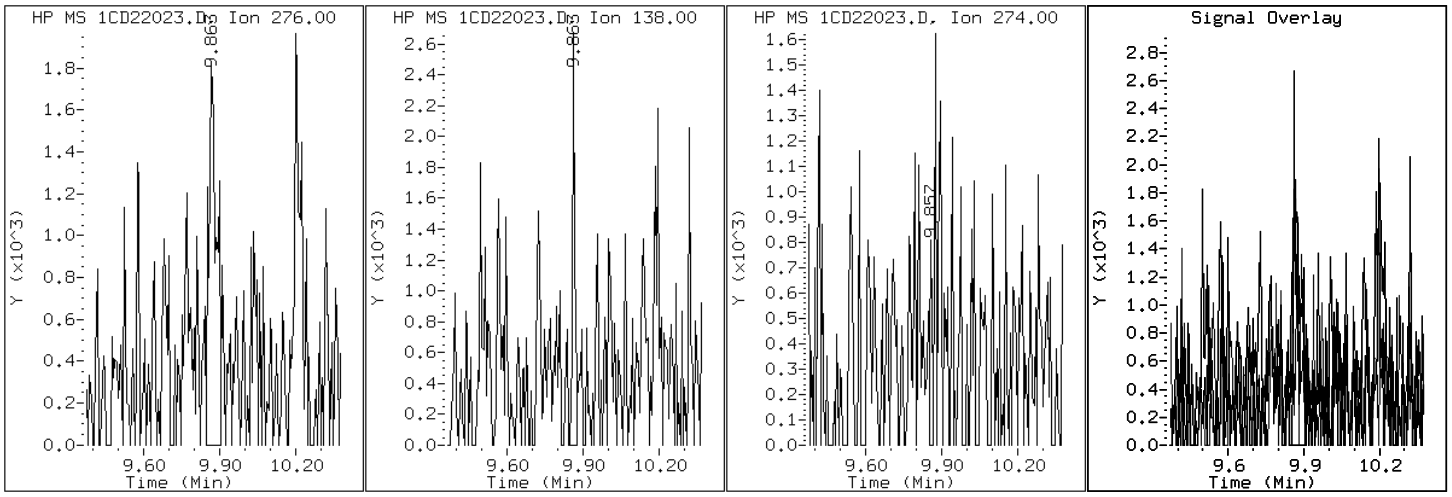
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

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



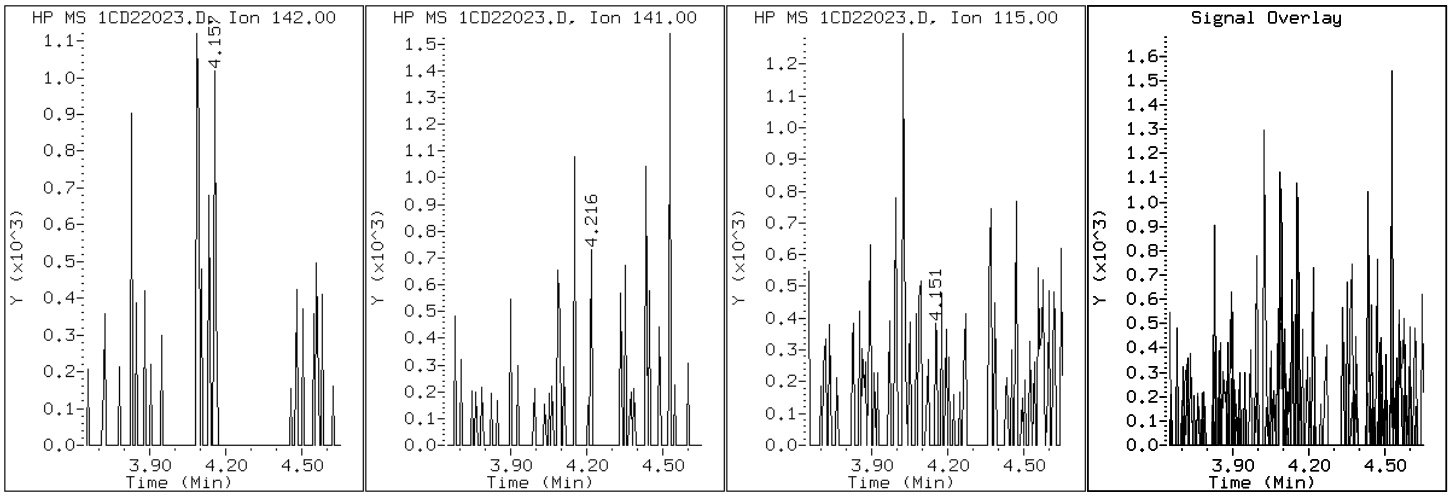
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

4 1-Methylnaphthalene



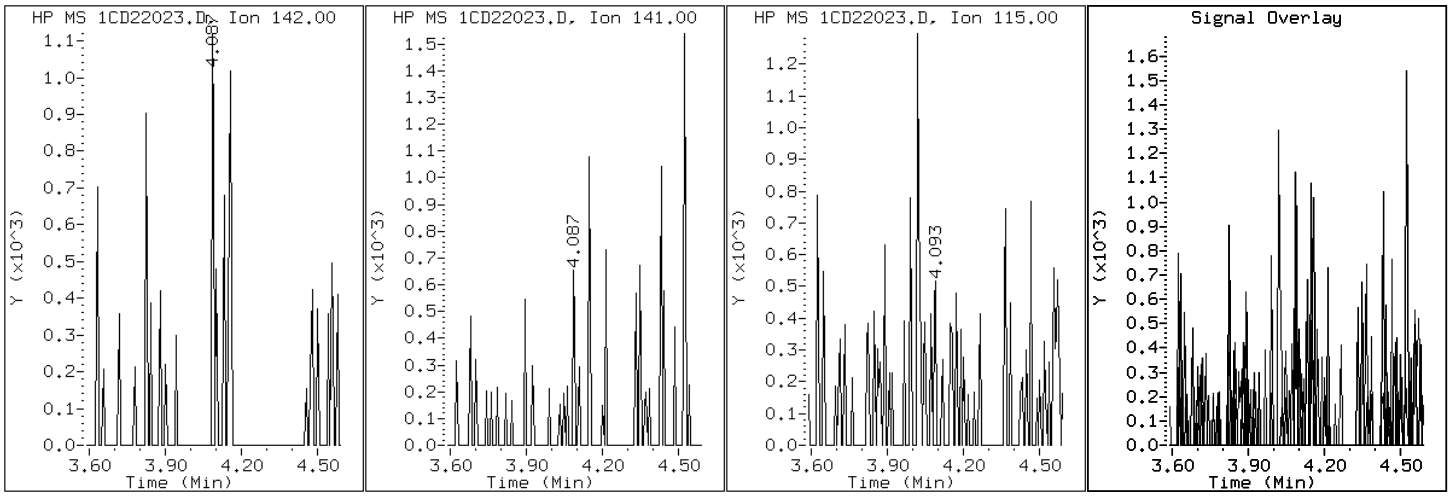
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

3 2-Methylnaphthalene



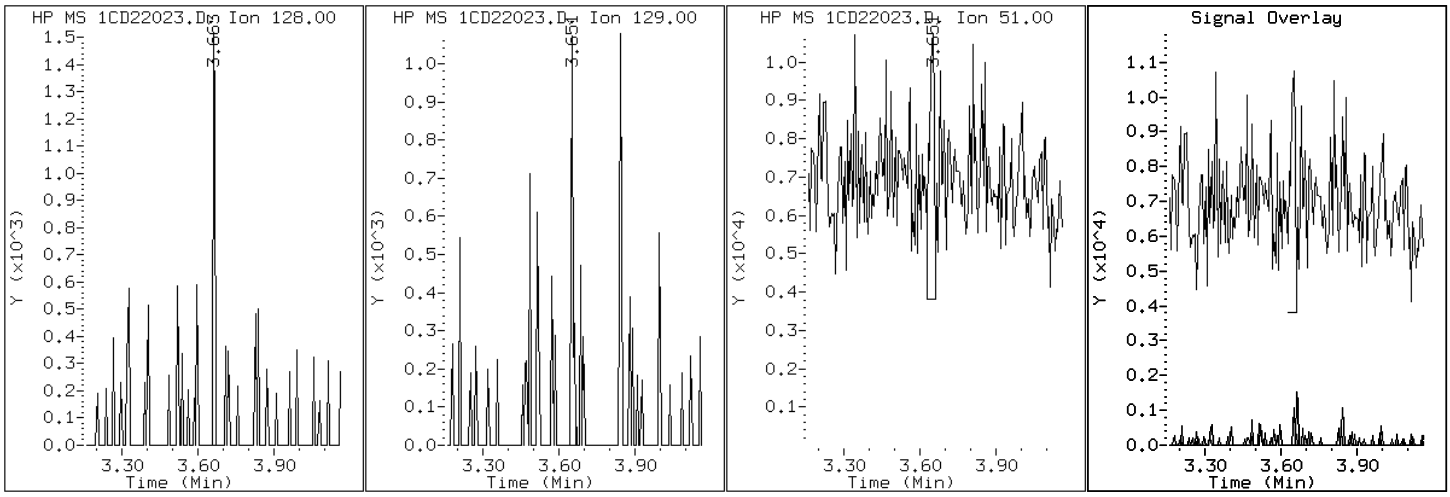
Data File: 1CD22023.D

Date: 22-APR-2013 18:41

Client ID: FM0060A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a Operator: SCC

2 Naphthalene



Data File: 1CD22023.D

Date: 22-APR-2013 18:41

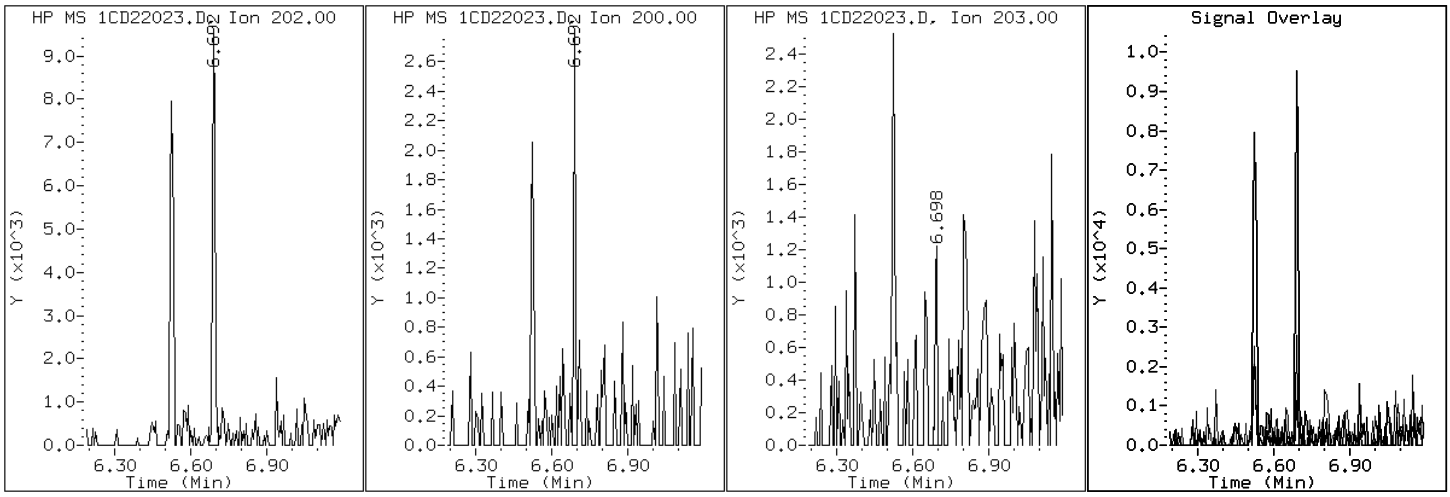
Client ID: FM0060A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89421-a-6-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22023.D
Inj. Date and Time: 22-APR-2013 18:41
Instrument ID: BSMC5973.i
Client ID: FM0060A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

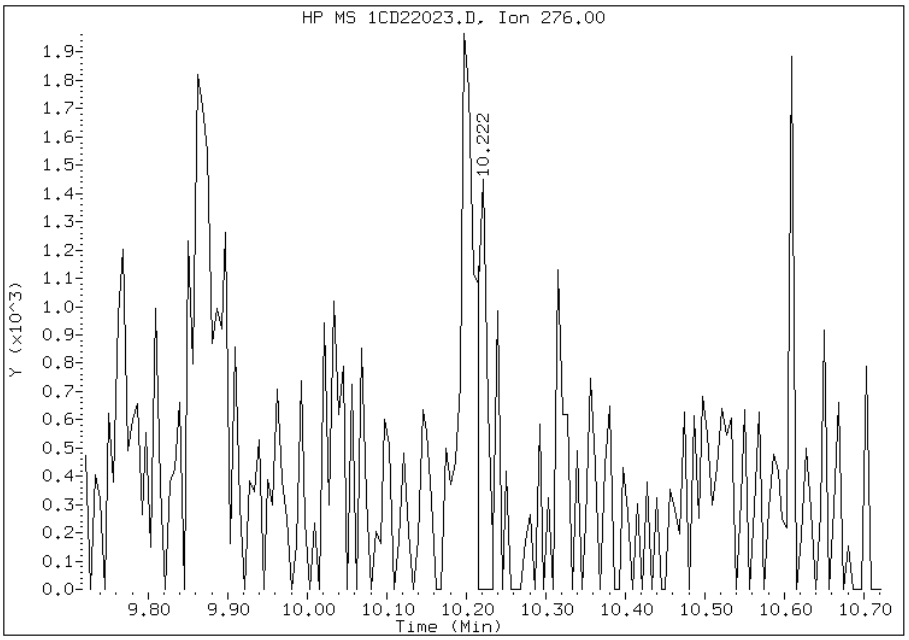
Processing Integration Results

RT: 10.22

Response: 1178

Amount: 0

Conc: 55



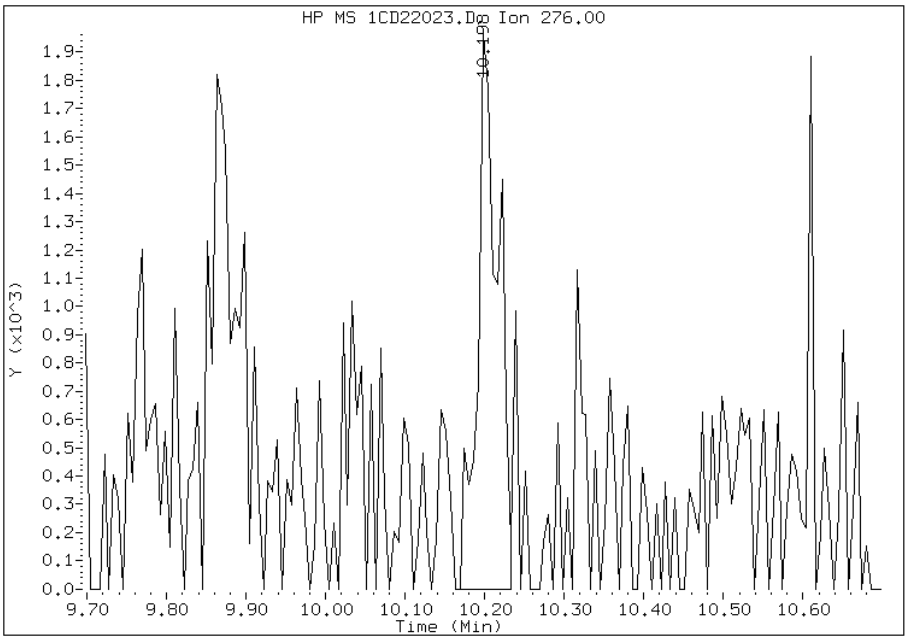
Manual Integration Results

RT: 10.20

Response: 3618

Amount: 1

Conc: 170



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22023.D
Inj. Date and Time: 22-APR-2013 18:41
Instrument ID: BSMC5973.i
Client ID: FM0060A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

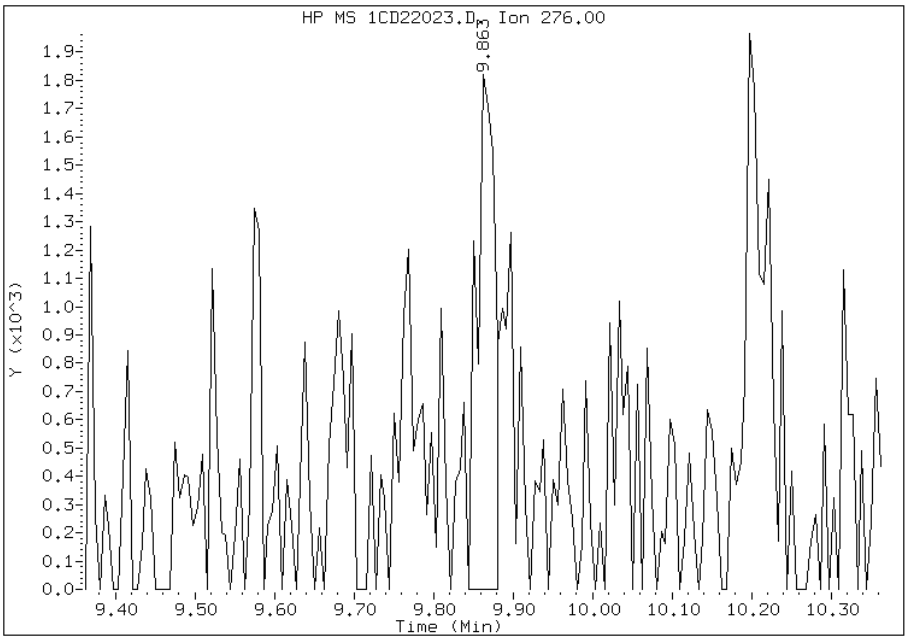
Processing Integration Results

RT: 9.86

Response: 2813

Amount: 1

Conc: 335



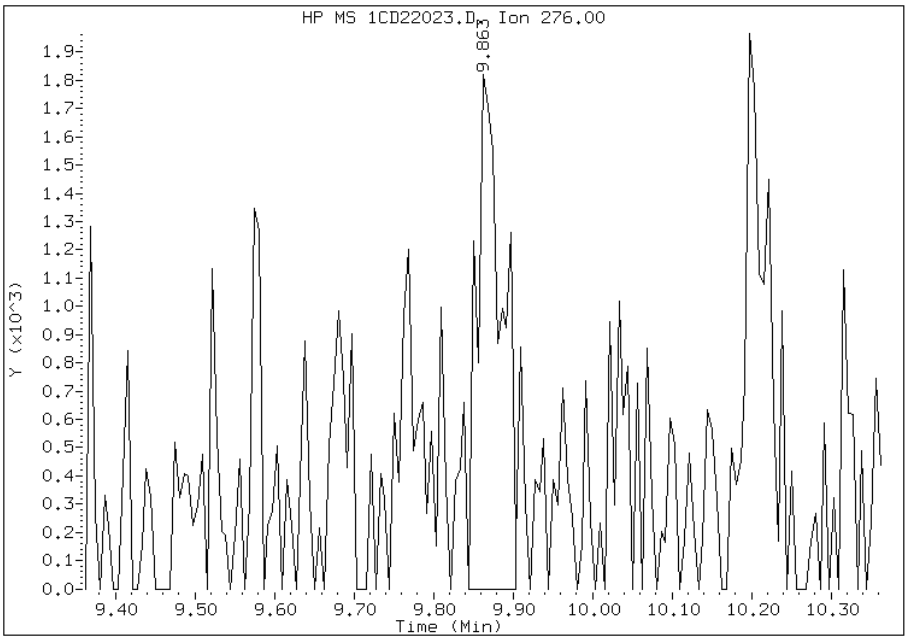
Manual Integration Results

RT: 9.86

Response: 4000

Amount: 1

Conc: 387



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:19
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: FM0106A-CS-SP | Lab Sample ID: 680-89421-7

Matrix: Solid | Lab File ID: 1CD22024.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 15:00

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.97(g) | Date Analyzed: 04/22/2013 19:00

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

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

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

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	19	J	49	6.2
120-12-7	Anthracene	20		10	5.2
56-55-3	Benzo[a]anthracene	68		9.9	4.8
50-32-8	Benzo[a]pyrene	76		13	6.4
205-99-2	Benzo[b]fluoranthene	160		15	7.5
191-24-2	Benzo[g,h,i]perylene	50		25	5.4
207-08-9	Benzo[k]fluoranthene	58		9.9	4.4
218-01-9	Chrysene	86		11	5.5
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.1
206-44-0	Fluoranthene	69		25	4.9
86-73-7	Fluorene	7.7	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	110		25	8.8
90-12-0	1-Methylnaphthalene	19	J	49	5.4
91-57-6	2-Methylnaphthalene	56		49	8.8
91-20-3	Naphthalene	53		49	5.4
85-01-8	Phenanthrene	59		9.9	4.8
129-00-0	Pyrene	81		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22024.D
Lab Smp Id: 680-89421-A-7-A Client Smp ID: FM0106A-CS-SP
Inj Date : 22-APR-2013 19:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-7-a
Misc Info : 680-89421-A-7-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	18.722	% 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	3.651	3.651	(1.000)	210608	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	149819	40.0000	
* 10 Phenanthrene-d10	188	5.680	5.680	(1.000)	277993	40.0000	
$ 14 o-Terphenyl	230	5.933	5.933	(1.045)	23125	5.71307	469.5446
* 18 Chrysene-d12	240	7.615	7.615	(1.000)	305135	40.0000	
* 23 Perylene-d12	264	8.762	8.762	(1.000)	281528	40.0000	
2 Naphthalene	128	3.663	3.663	(1.003)	3703	0.65044	53.4583(Q)
3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	1534	0.67561	55.5266
4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	847	0.23292	19.1428
5 Acenaphthylene	152	4.651	4.651	(0.981)	1434	0.22588	18.5649
9 Fluorene	166	5.068	5.080	(1.070)	456	0.09366	7.6978
11 Phenanthrene	178	5.698	5.698	(1.003)	5841	0.72272	59.3986
12 Anthracene	178	5.727	5.733	(1.008)	1919	0.23778	19.5427
13 Carbazole	167	5.833	5.839	(1.027)	996	0.13251	10.8907(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.527	6.527	(1.149)	7614	0.84430	69.3909
16 Pyrene	202	6.692	6.692	(0.879)	8596	0.99023	81.3852
17 Benzo(a)anthracene	228	7.603	7.603	(0.998)	7146	0.82817	68.0658
19 Chrysene	228	7.633	7.633	(1.002)	8975	1.05145	86.4161
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	13661	1.92119	157.8989(M)
21 Benzo(k)fluoranthene	252	8.450	8.456	(0.964)	5686	0.70668	58.0801(QMH)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	6830	0.92923	76.3711
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	4873	1.30674	107.3978(M)
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	4209	0.61094	50.2119(M)

QC Flag Legend

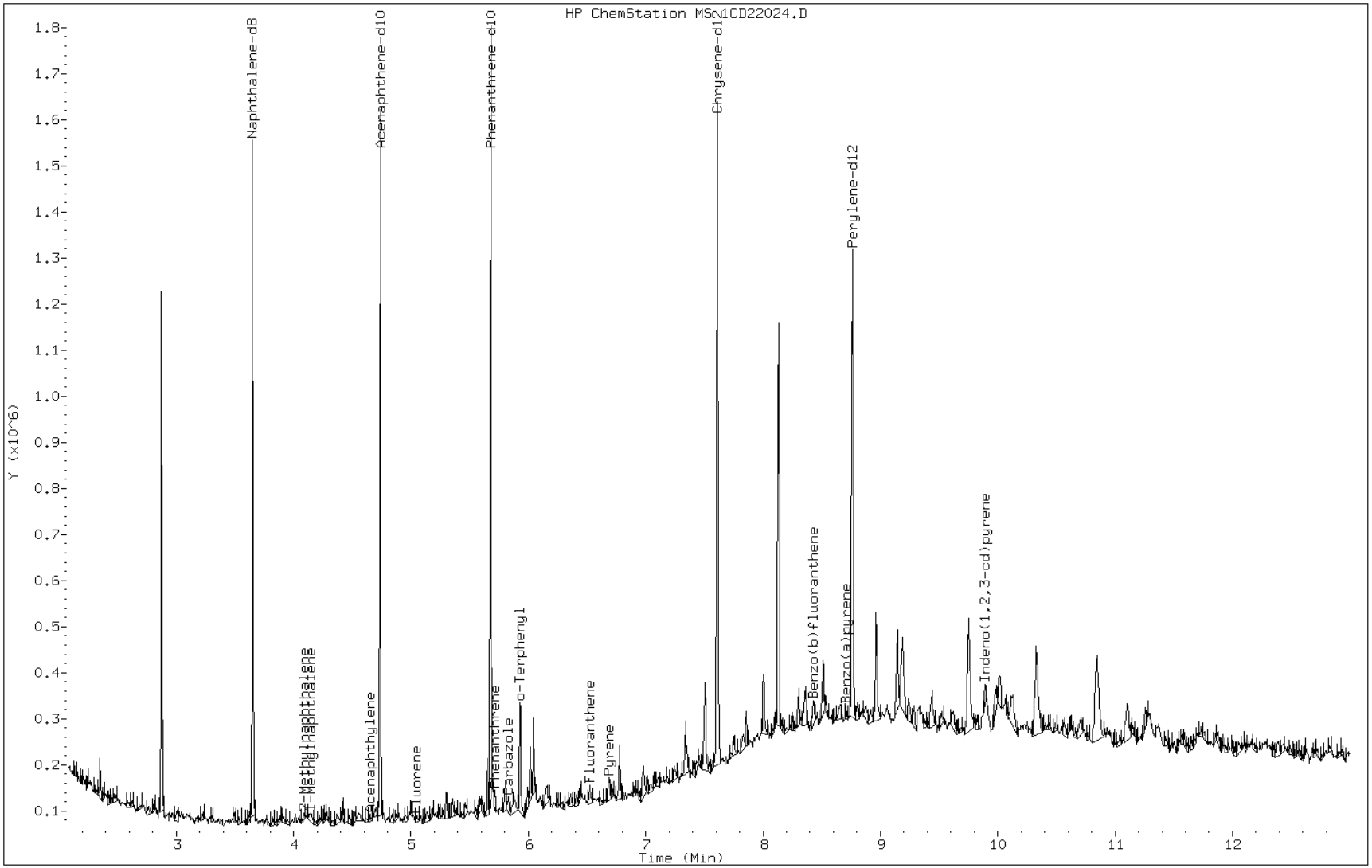
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC



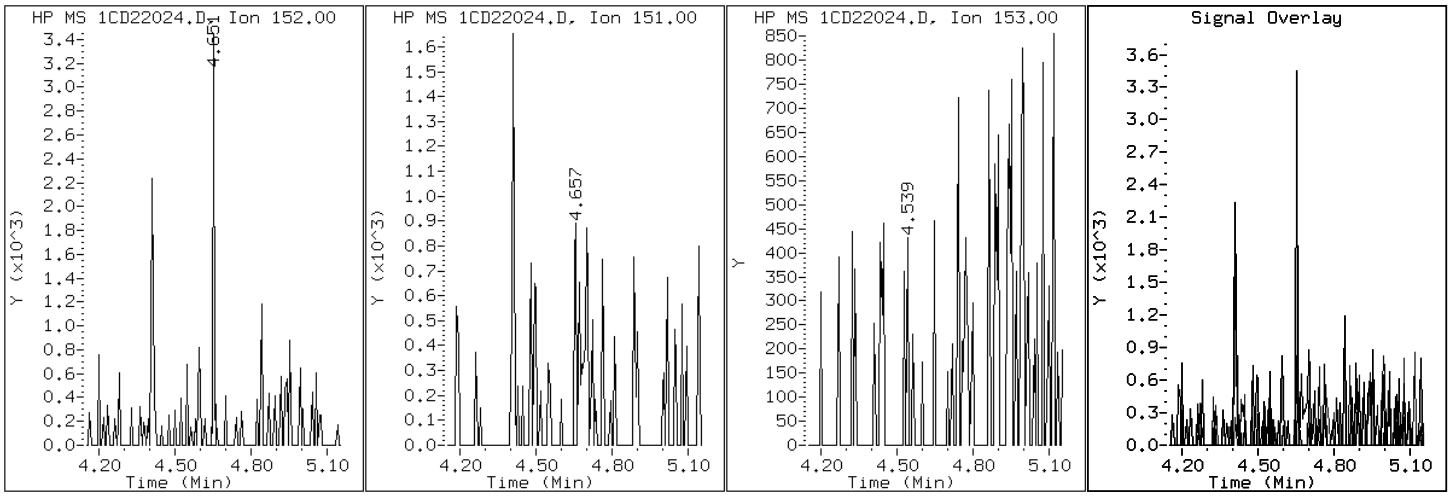
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

5 Acenaphthylene



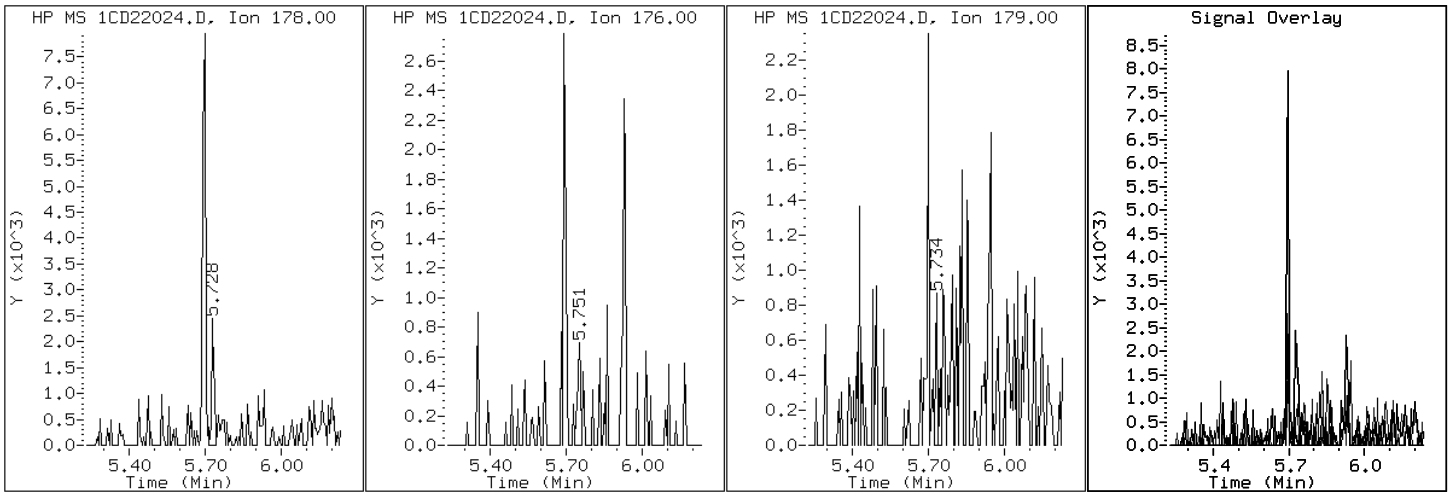
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

12 Anthracene



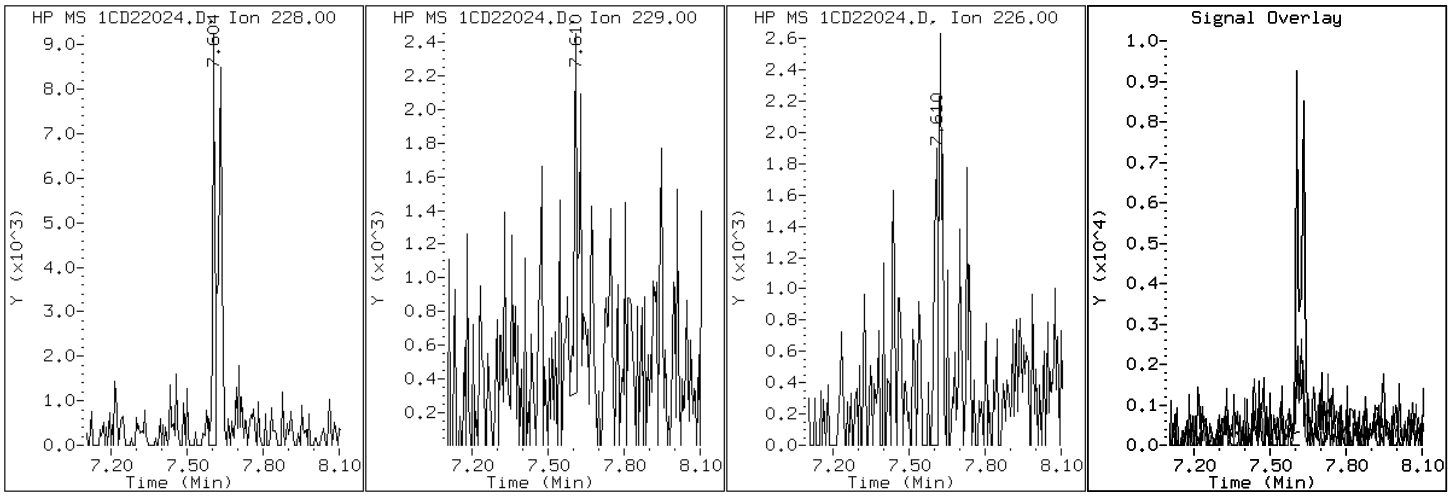
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

17 Benzo(a)anthracene



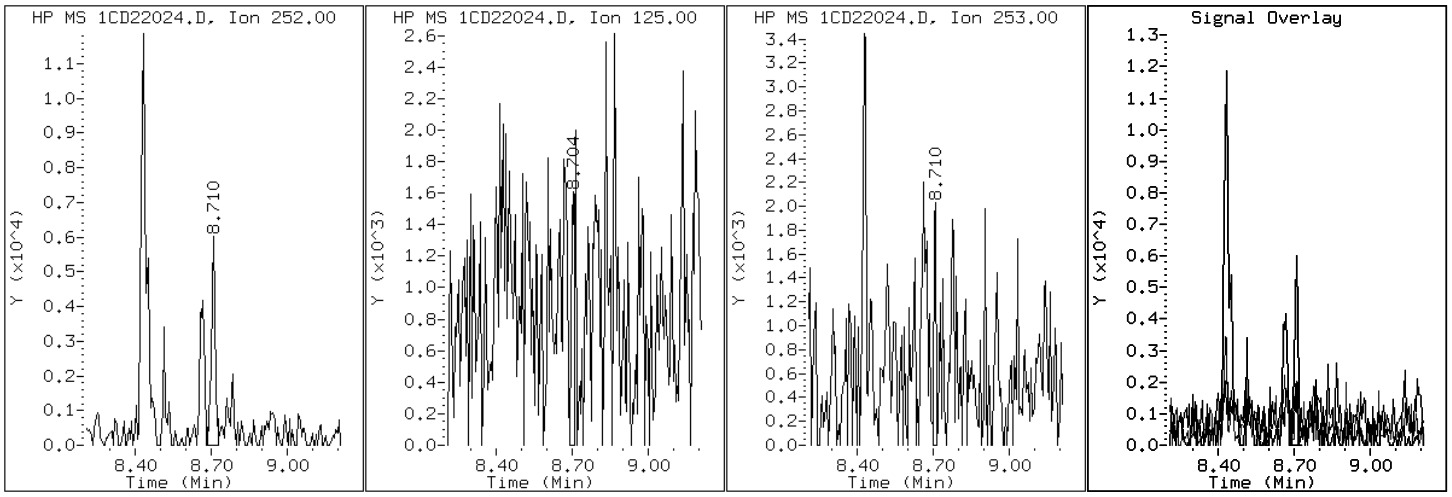
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

22 Benzo(a)pyrene



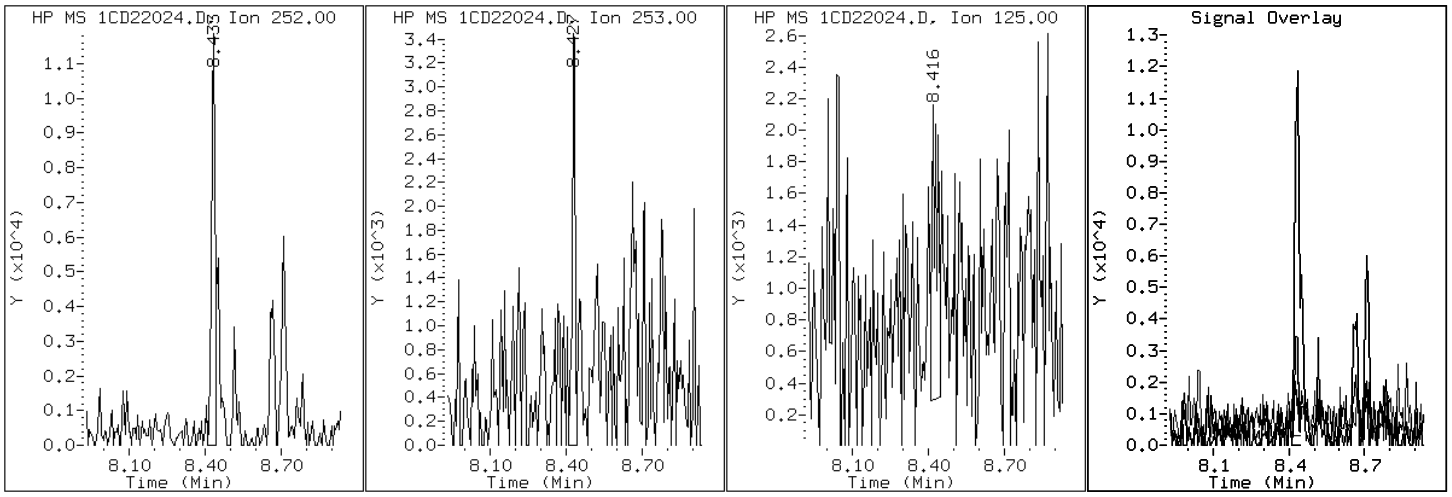
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



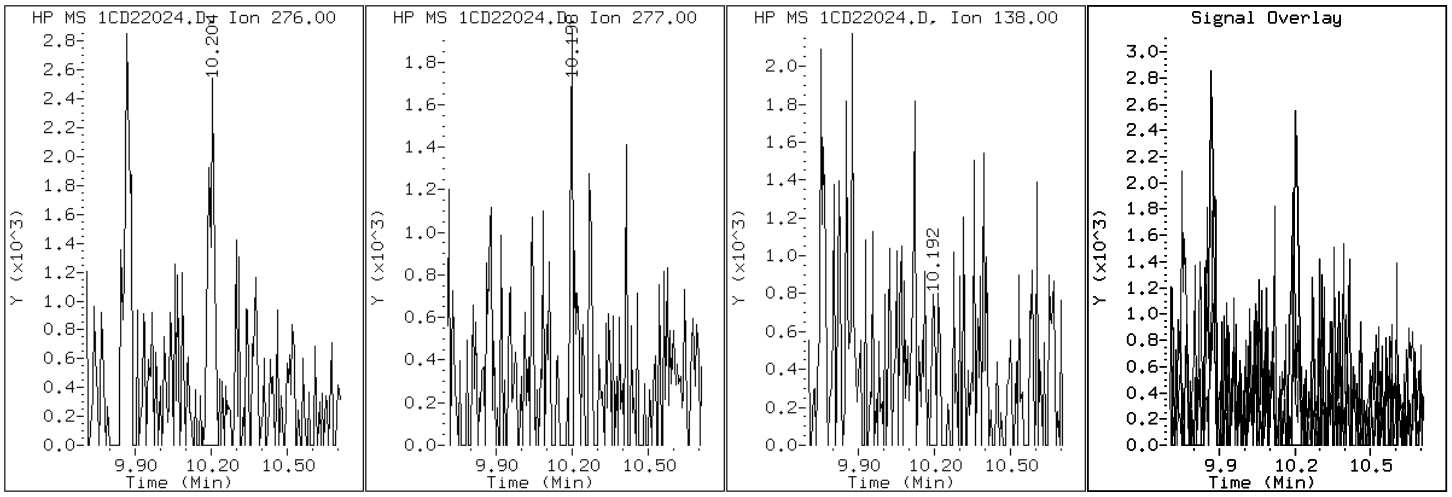
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



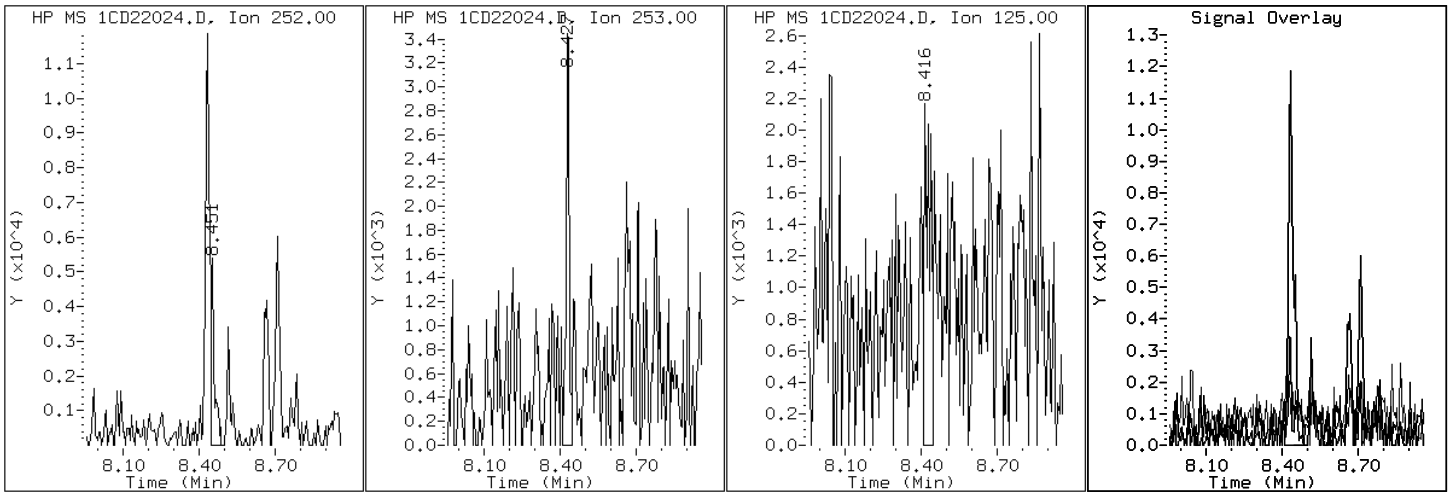
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



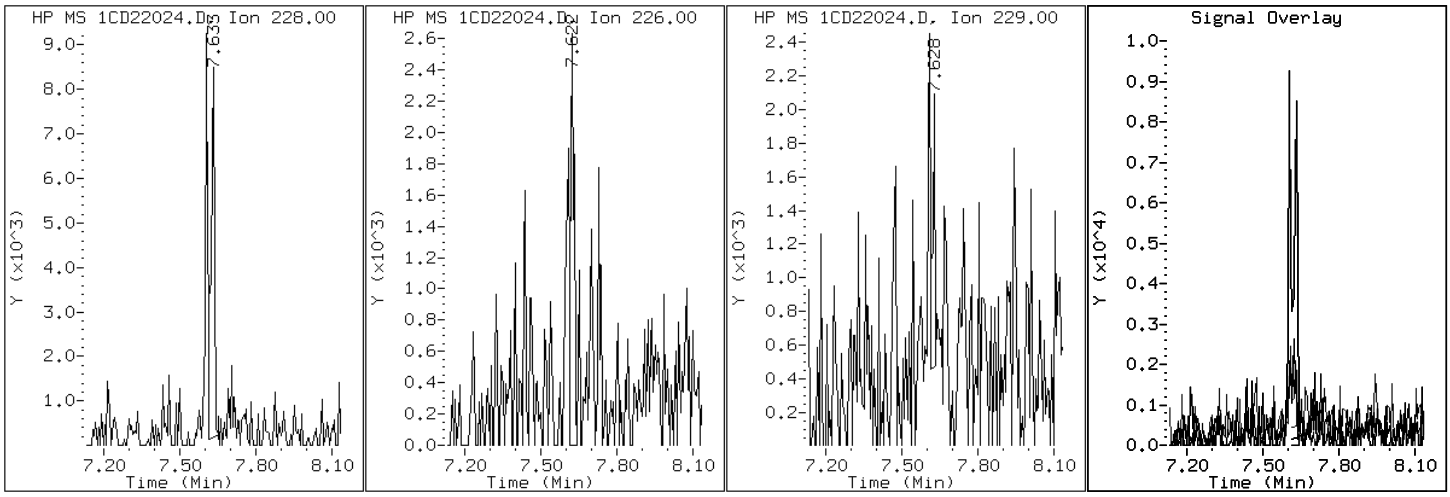
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

19 Chrysene



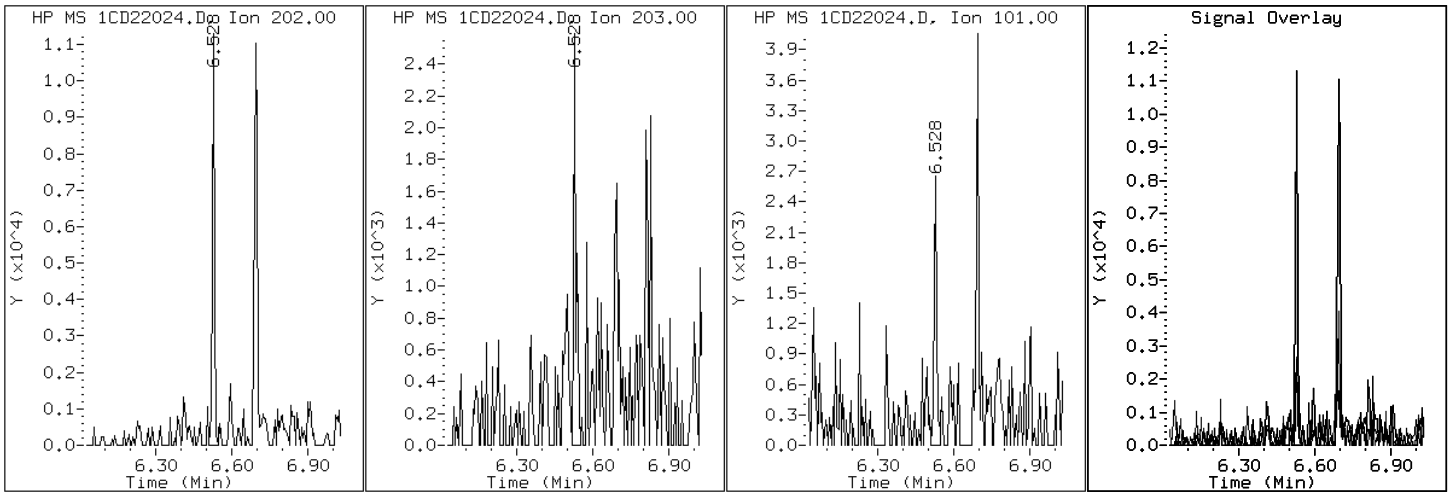
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

15 Fluoranthene



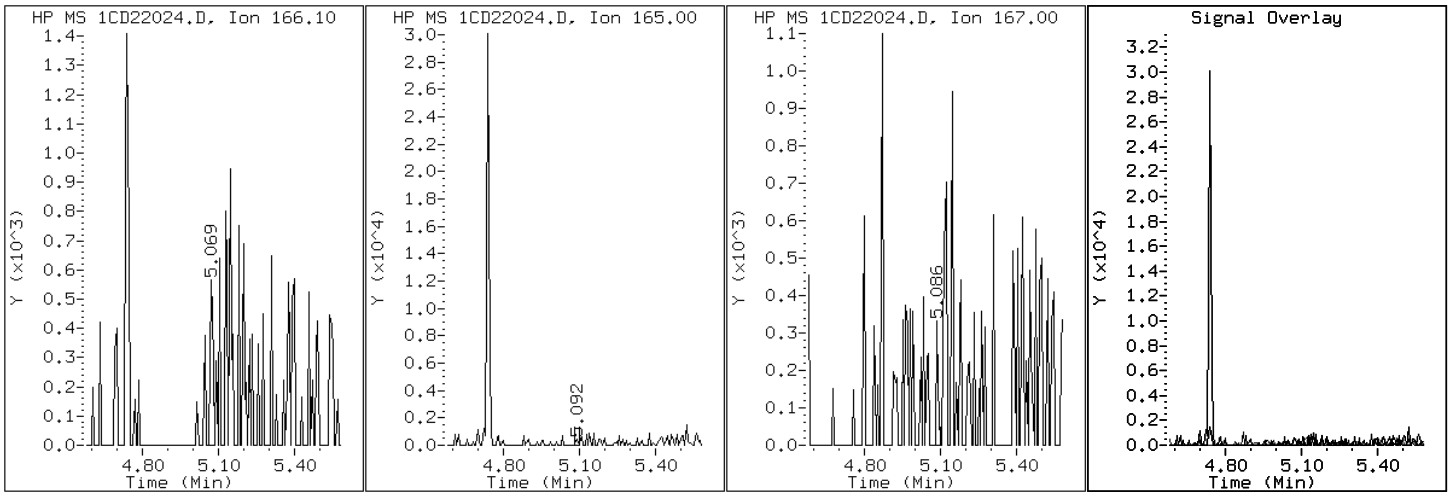
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

9 Fluorene



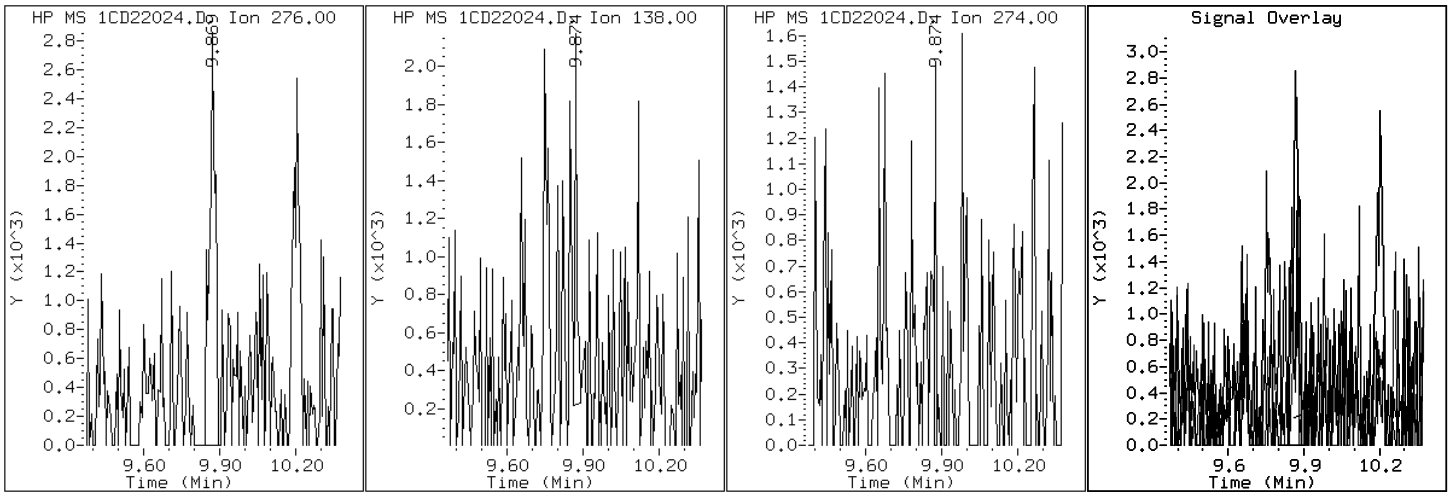
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

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



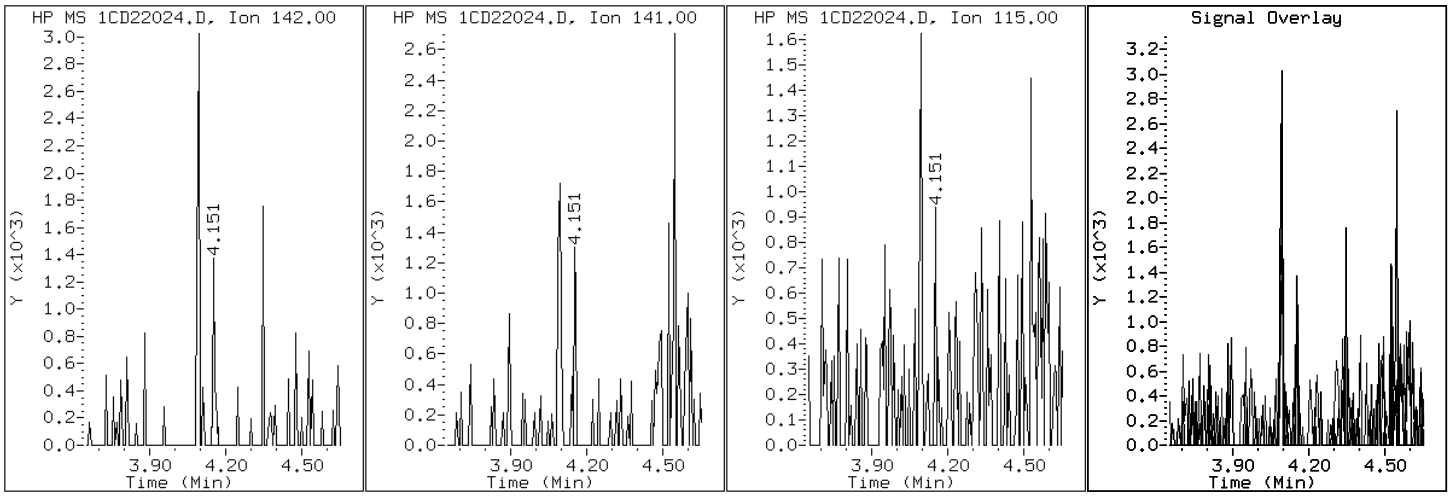
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

4 1-Methylnaphthalene



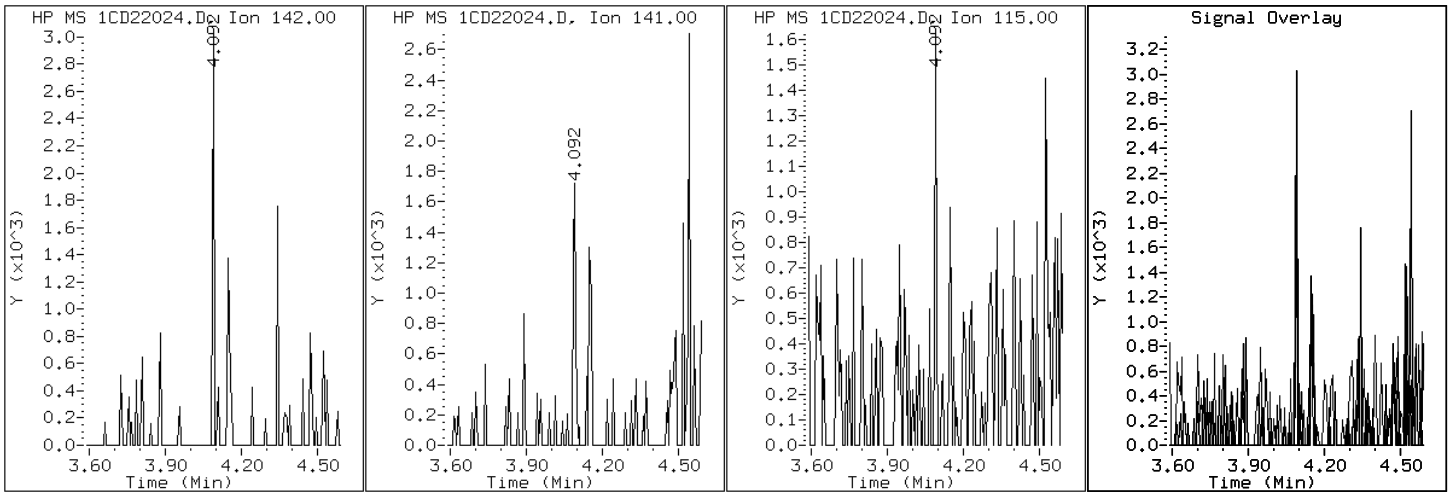
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

3 2-Methylnaphthalene



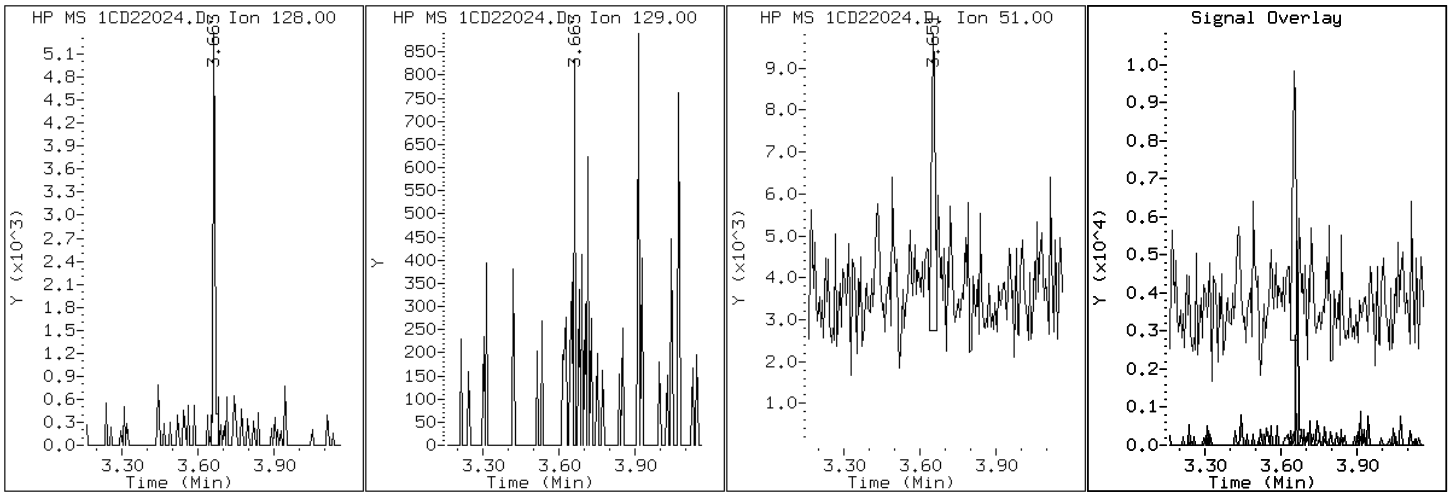
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

2 Naphthalene



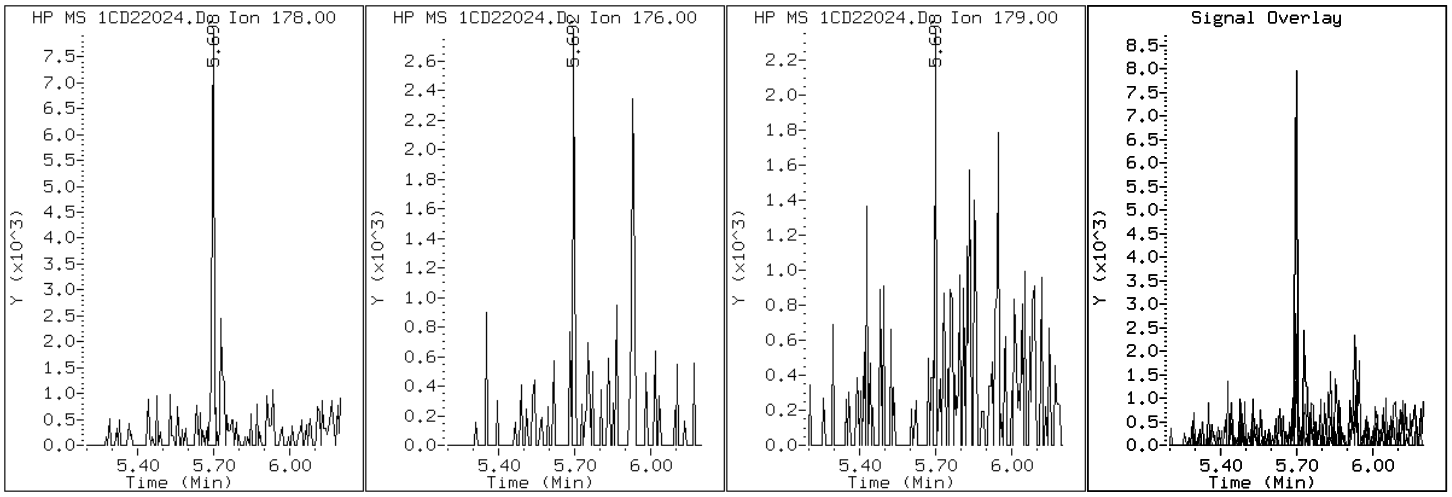
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

11 Phenanthrene



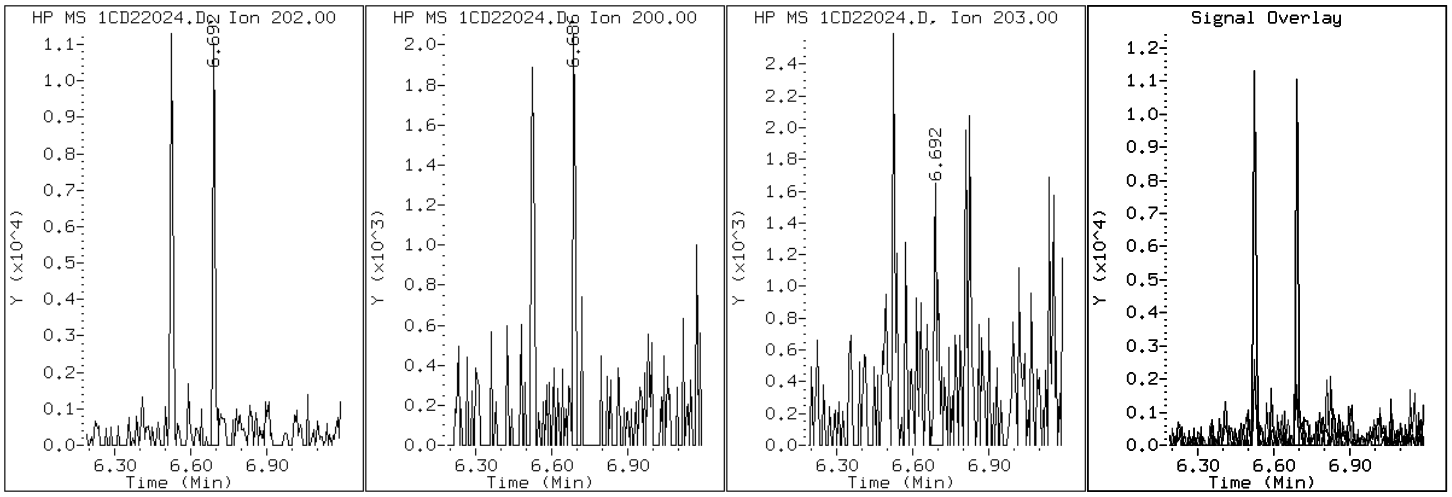
Data File: 1CD22024.D

Date: 22-APR-2013 19:00

Client ID: FM0106A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22024.D
Inj. Date and Time: 22-APR-2013 19:00
Instrument ID: BSMC5973.i
Client ID: FM0106A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

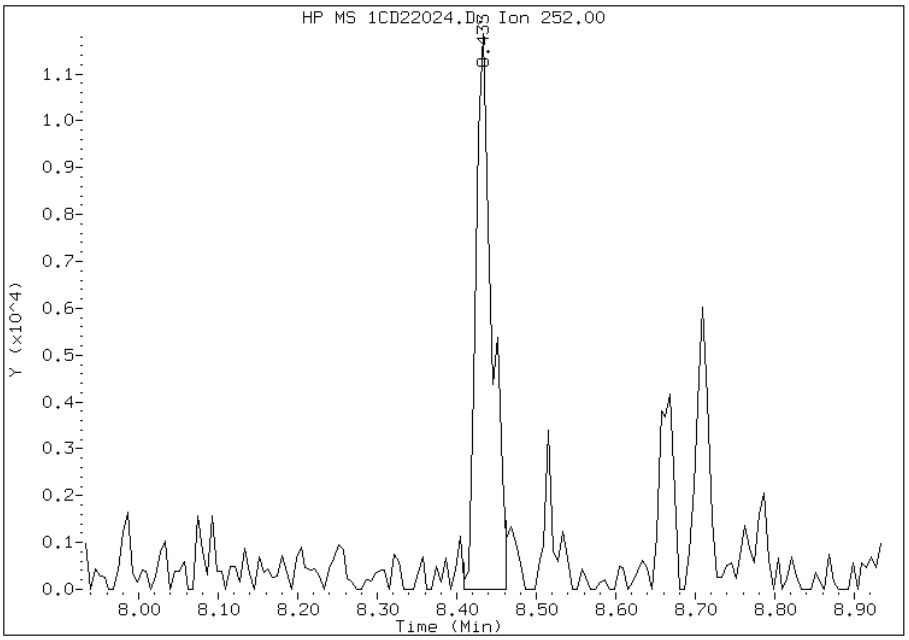
Processing Integration Results

RT: 8.43

Response: 16811

Amount: 2

Conc: 194



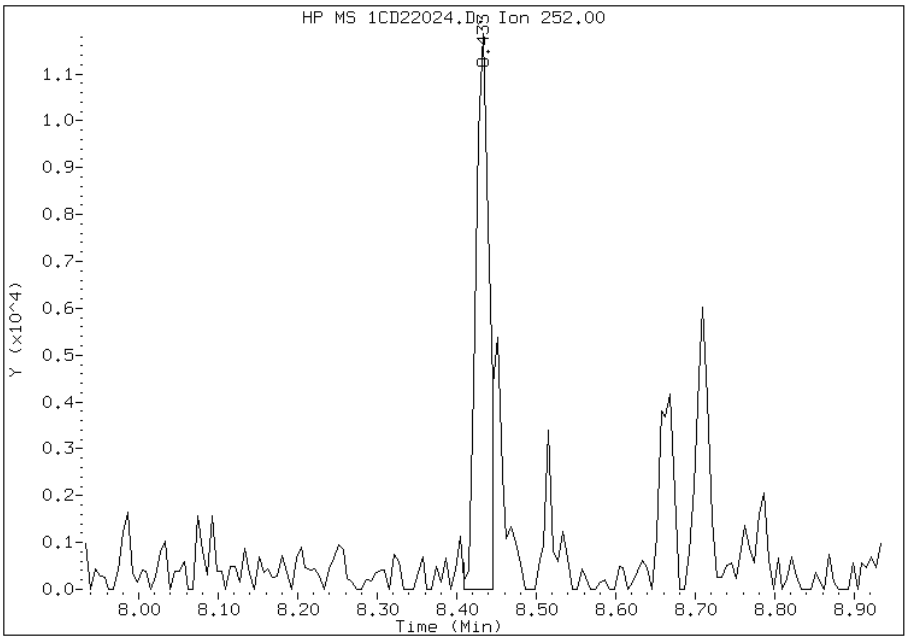
Manual Integration Results

RT: 8.43

Response: 13661

Amount: 2

Conc: 158



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22024.D
Inj. Date and Time: 22-APR-2013 19:00
Instrument ID: BSMC5973.i
Client ID: FM0106A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

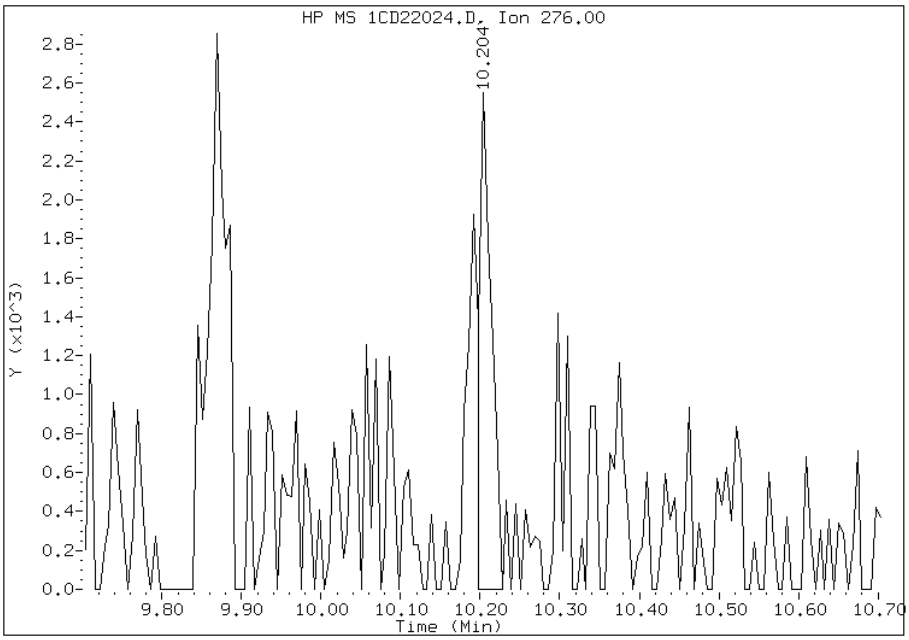
Processing Integration Results

RT: 10.20

Response: 2711

Amount: 0

Conc: 32



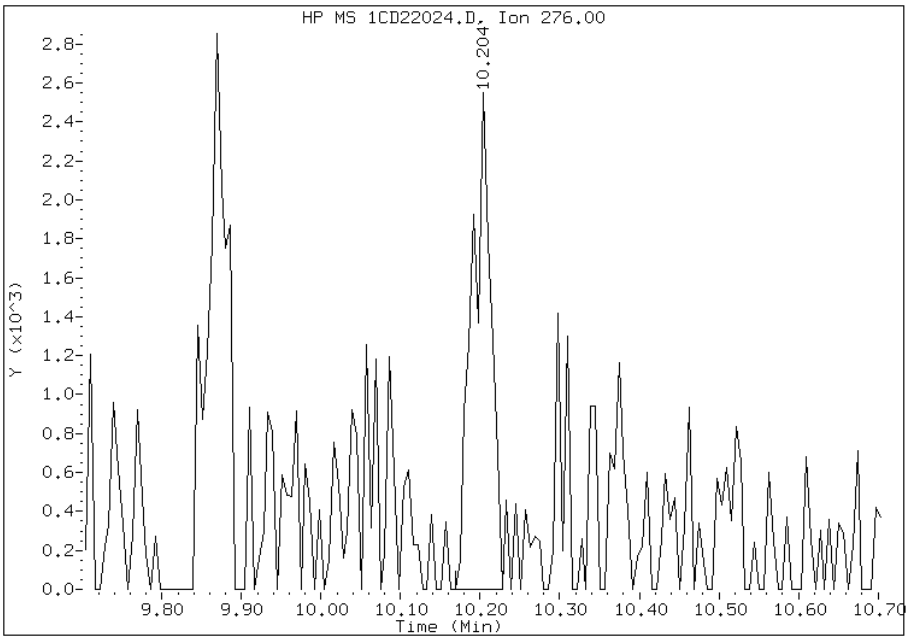
Manual Integration Results

RT: 10.20

Response: 4209

Amount: 1

Conc: 50



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22024.D
Inj. Date and Time: 22-APR-2013 19:00
Instrument ID: BSMC5973.i
Client ID: FM0106A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

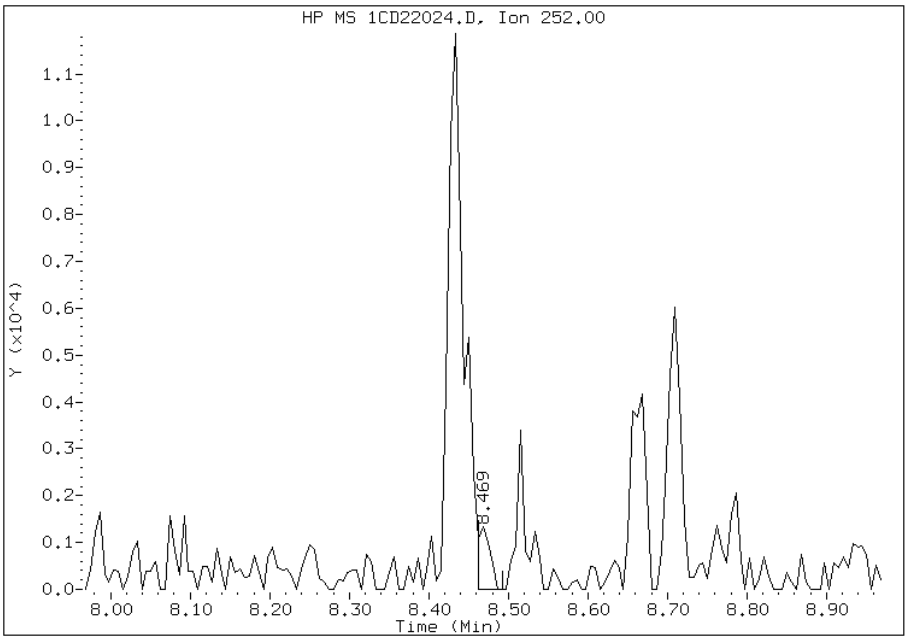
Processing Integration Results

RT: 8.47

Response: 1402

Amount: 0

Conc: 14



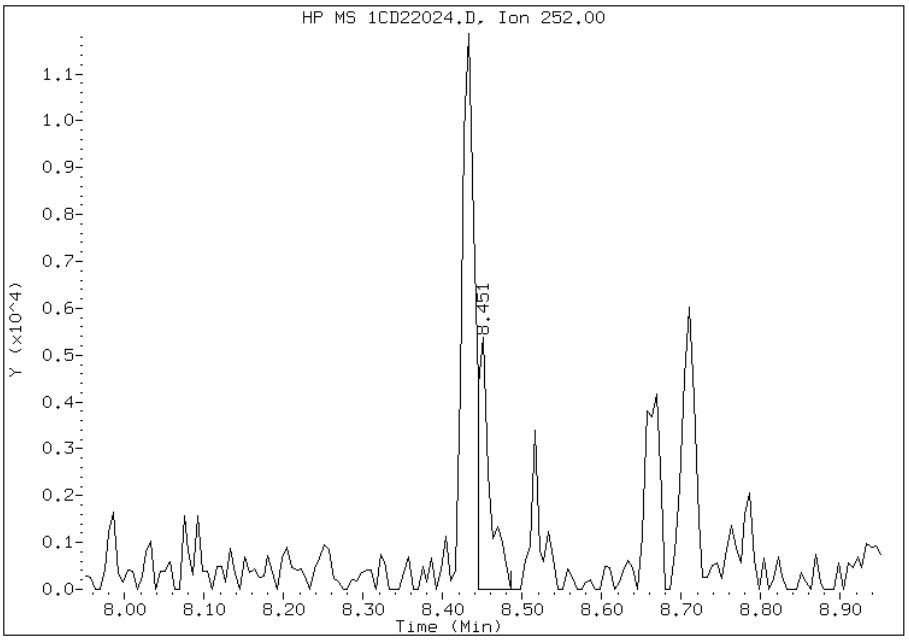
Manual Integration Results

RT: 8.45

Response: 5686

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22024.D
Inj. Date and Time: 22-APR-2013 19:00
Instrument ID: BSMC5973.i
Client ID: FM0106A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

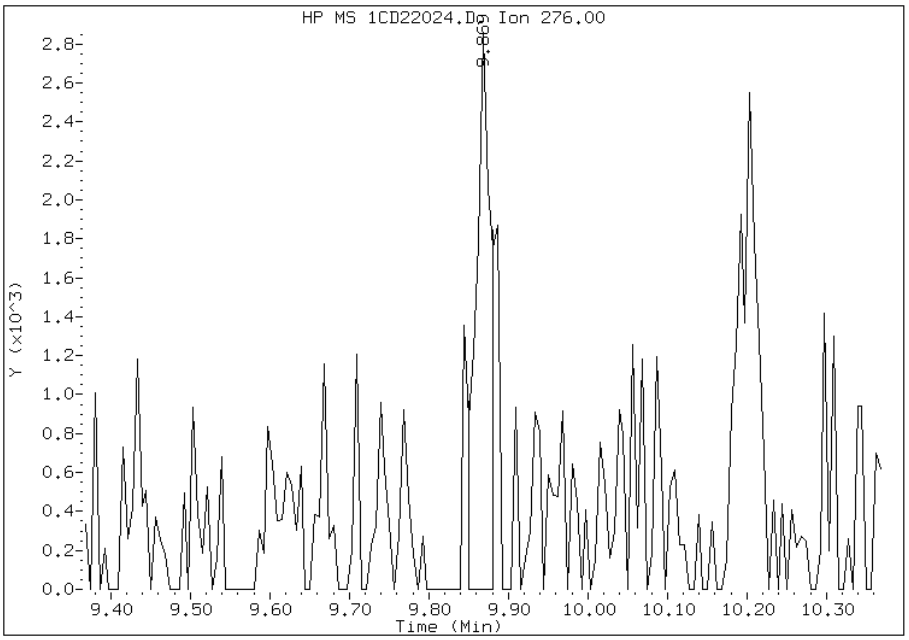
Processing Integration Results

RT: 9.87

Response: 3721

Amount: 1

Conc: 94



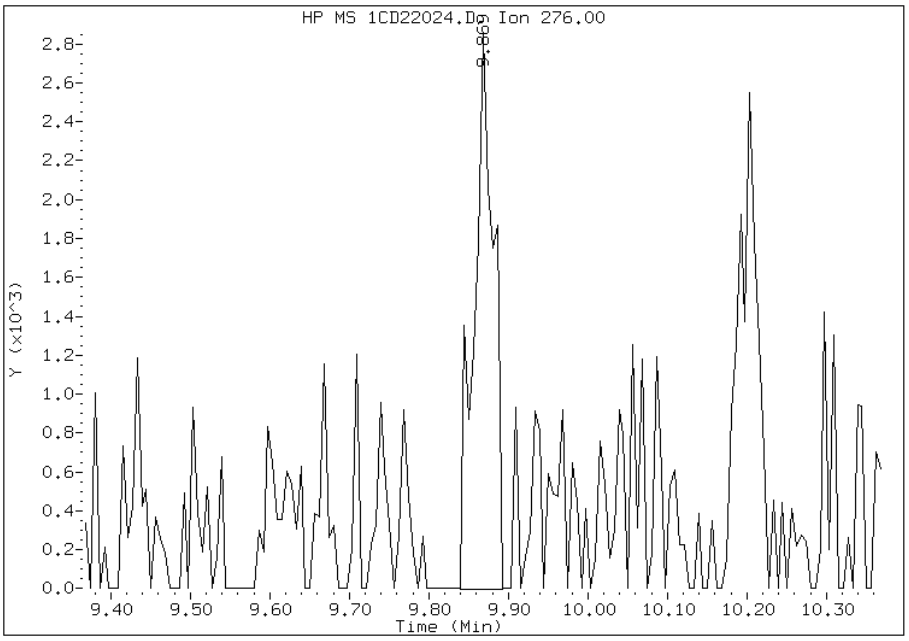
Manual Integration Results

RT: 9.87

Response: 4873

Amount: 1

Conc: 107



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:21
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: FM0106B-CS-SP | Lab Sample ID: 680-89421-8

Matrix: Solid | Lab File ID: 1CD22025.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 15:15

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.97(g) | Date Analyzed: 04/22/2013 19:18

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

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

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

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	15	J	51	6.3
120-12-7	Anthracene	48		11	5.3
56-55-3	Benzo[a]anthracene	140		10	4.9
50-32-8	Benzo[a]pyrene	130		13	6.6
205-99-2	Benzo[b]fluoranthene	280		15	7.7
191-24-2	Benzo[g,h,i]perylene	120		25	5.6
207-08-9	Benzo[k]fluoranthene	73		10	4.6
218-01-9	Chrysene	100		11	5.7
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.2
206-44-0	Fluoranthene	150		25	5.1
86-73-7	Fluorene	17	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	150		25	9.0
90-12-0	1-Methylnaphthalene	40	J	51	5.6
91-57-6	2-Methylnaphthalene	77		51	9.0
91-20-3	Naphthalene	61		51	5.6
85-01-8	Phenanthrene	110		10	4.9
129-00-0	Pyrene	160		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22025.D
Lab Smp Id: 680-89421-A-8-A Client Smp ID: FM0106B-CS-SP
Inj Date : 22-APR-2013 19:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-8-a
Misc Info : 680-89421-A-8-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	14.970	Weight Extracted
M	20.824	% 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	3.651	3.651	(1.000)	225235	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	161875	40.0000	
* 10 Phenanthrene-d10	188	5.680	5.680	(1.000)	283838	40.0000	
$ 14 o-Terphenyl	230	5.933	5.933	(1.045)	25857	6.19087	522.3213
* 18 Chrysene-d12	240	7.615	7.615	(1.000)	328041	40.0000	
* 23 Perylene-d12	264	8.762	8.762	(1.000)	285274	40.0000	
2 Naphthalene	128	3.663	3.663	(1.003)	4396	0.72202	60.9167(Q)
3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	2604	0.91222	76.9634
4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	1840	0.47312	39.9170
5 Acenaphthylene	152	4.651	4.651	(0.981)	1222	0.17815	15.0307
9 Fluorene	166	5.080	5.080	(1.072)	1054	0.20036	16.9047(Q)
11 Phenanthrene	178	5.698	5.698	(1.003)	11188	1.34893	113.8087
12 Anthracene	178	5.733	5.733	(1.009)	4688	0.56892	47.9998
13 Carbazole	167	5.839	5.839	(1.028)	1257	0.16379	13.8189(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.527	6.527	(1.149)	15919	1.72887	145.8639
16 Pyrene	202	6.698	6.692	(0.880)	17256	1.84904	156.0026
17 Benzo(a)anthracene	228	7.609	7.603	(0.999)	14887	1.60483	135.3991
19 Chrysene	228	7.633	7.633	(1.002)	11074	1.20676	101.8140
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	23667	3.28467	277.1263(M)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	7029	0.86212	72.7365(QM)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	11710	1.57223	132.6488
24 Indeno(1,2,3-cd)pyrene	276	9.862	9.874	(1.126)	8040	1.72598	145.6199
26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	9995	1.43173	120.7949(M)

QC Flag Legend

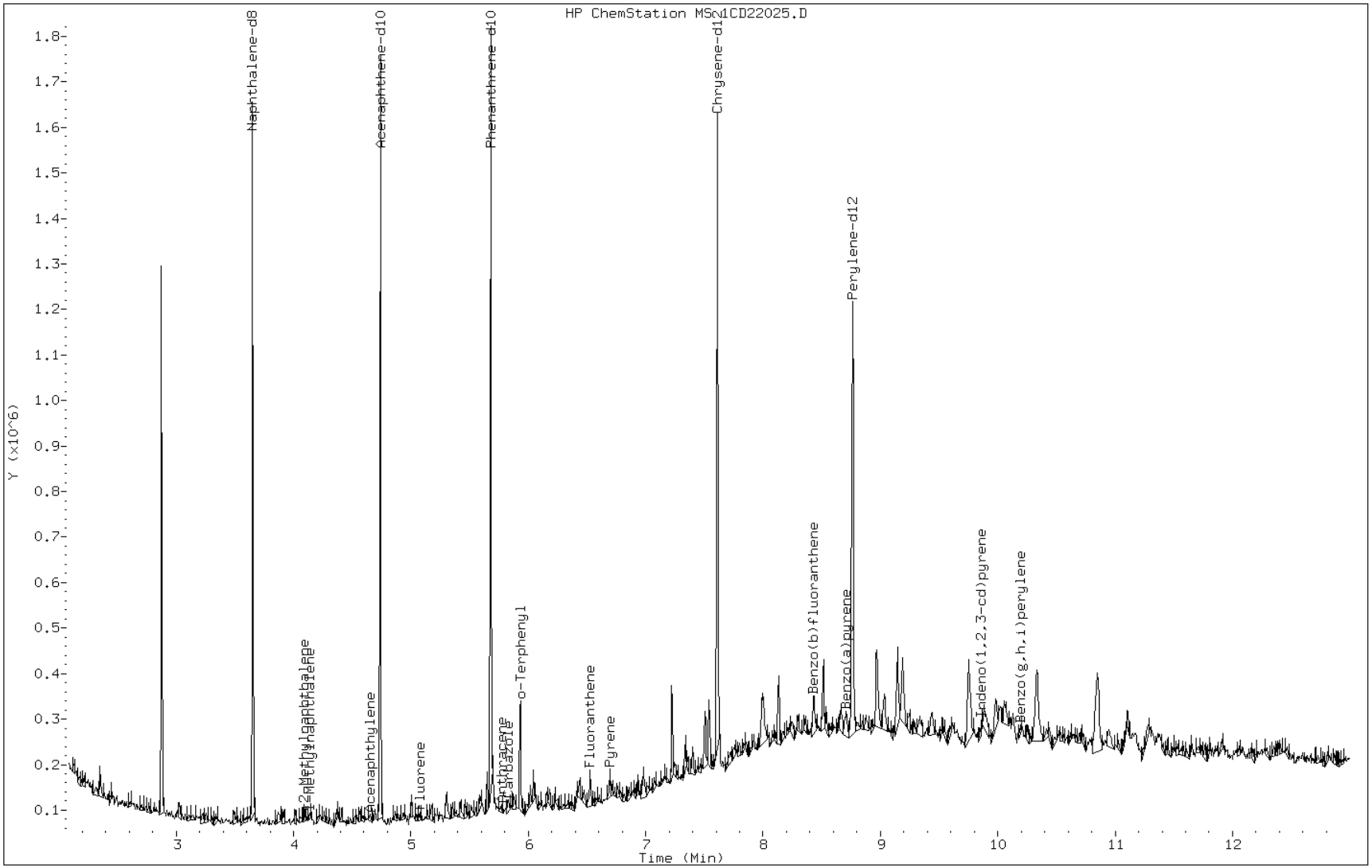
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC



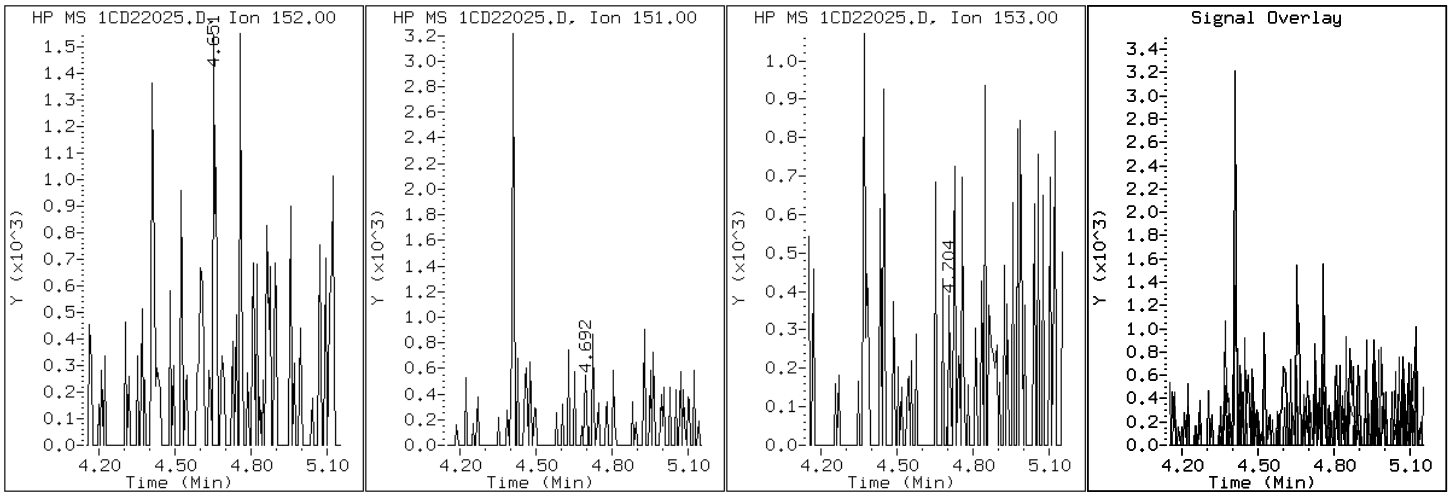
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

5 Acenaphthylene



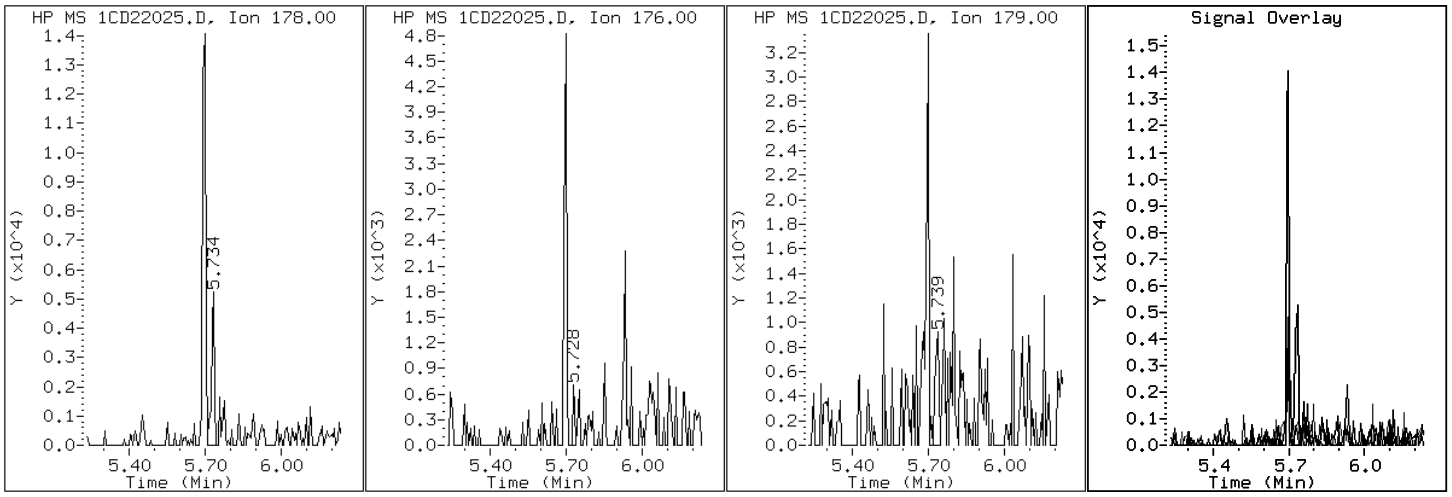
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

12 Anthracene



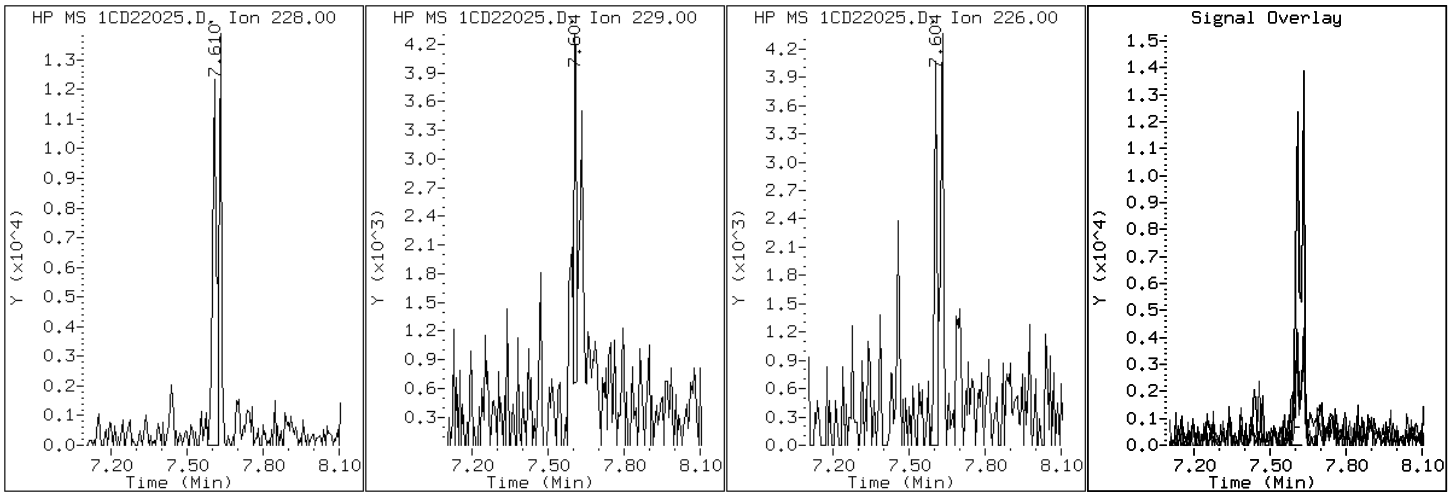
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

17 Benzo(a)anthracene



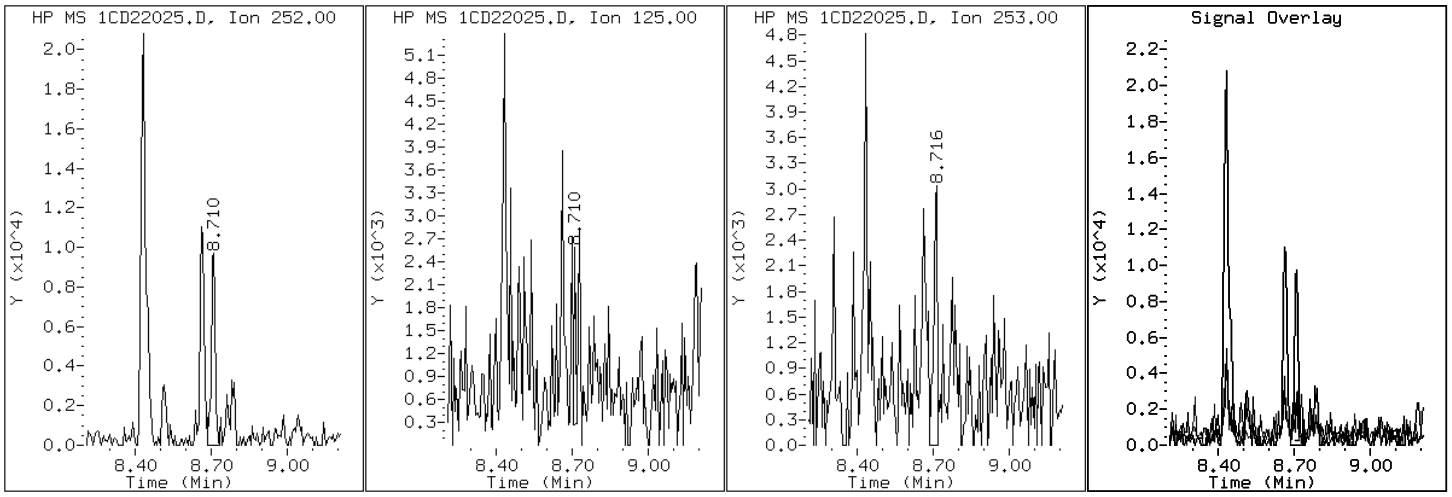
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

22 Benzo(a)pyrene



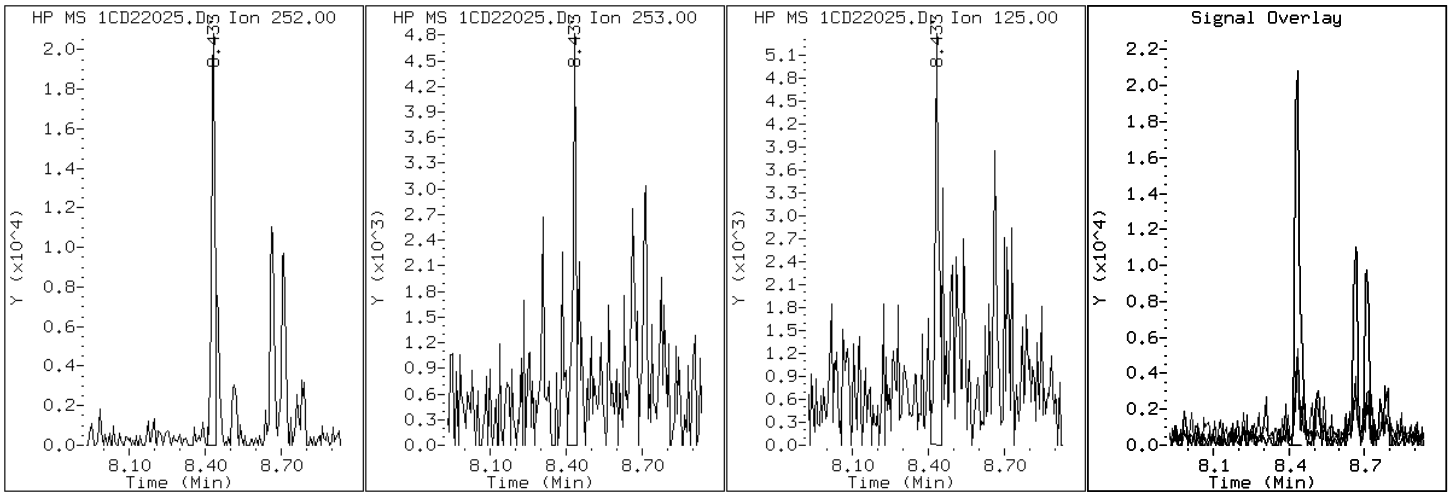
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



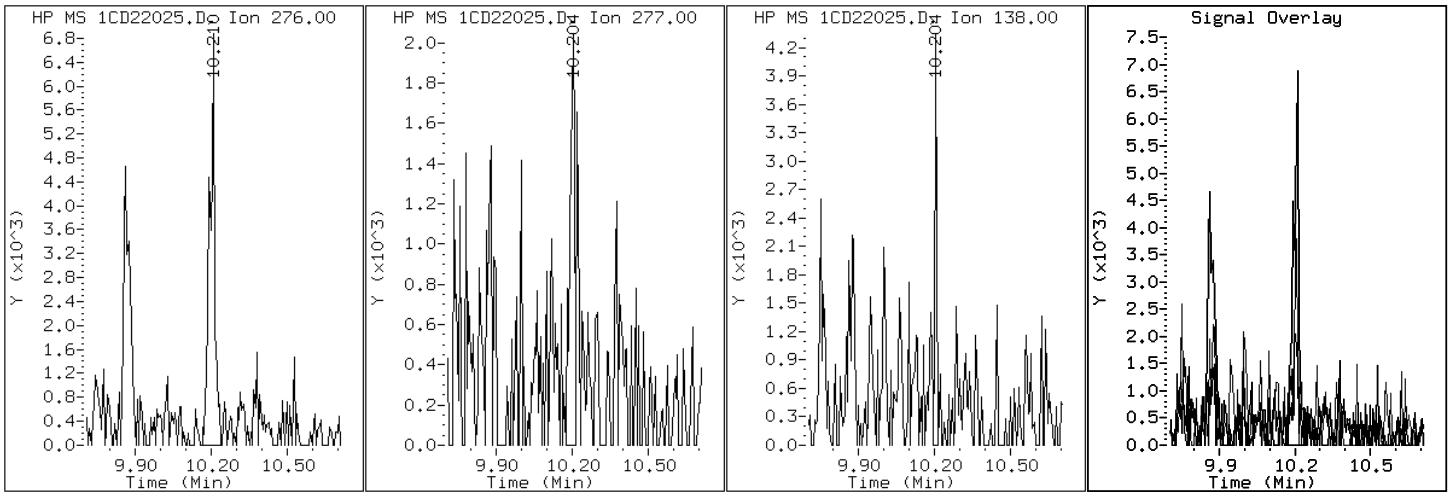
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



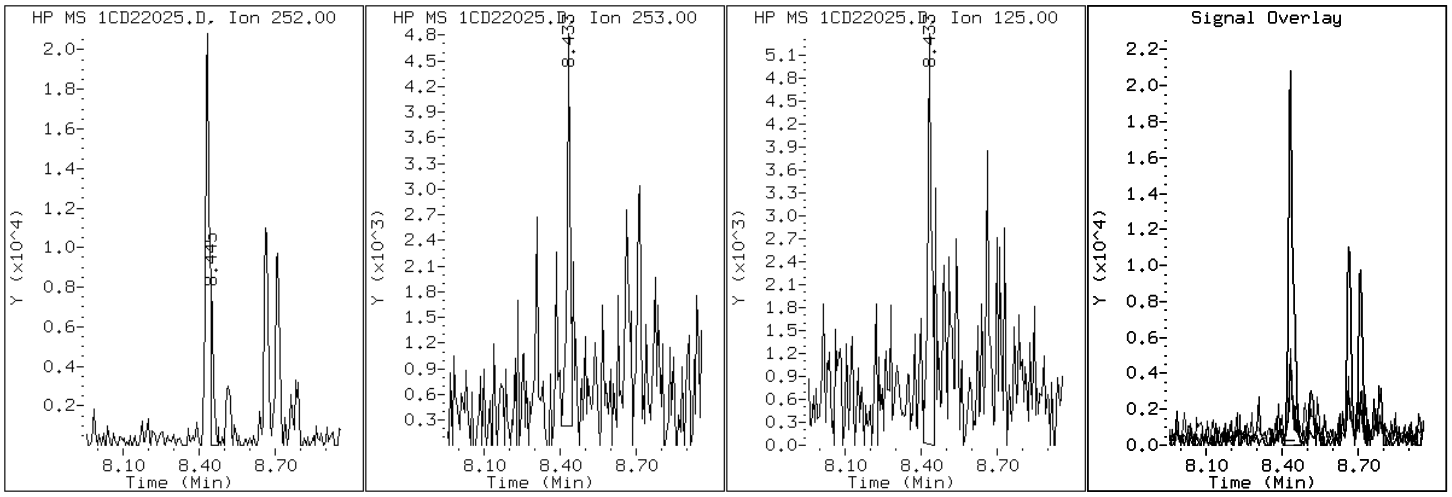
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



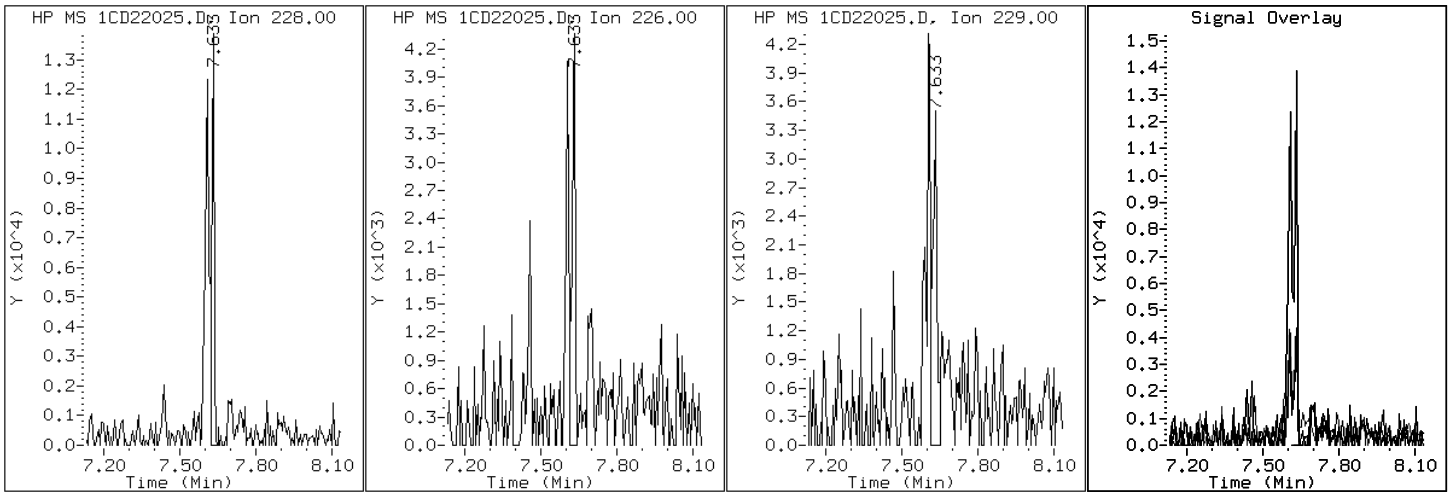
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

19 Chrysene



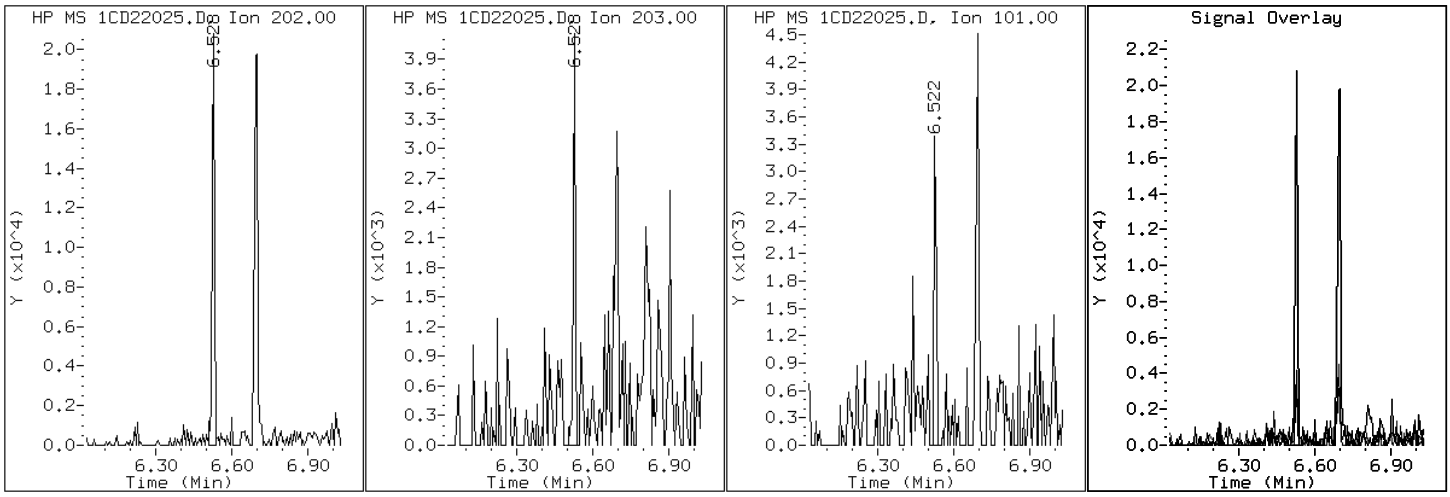
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

15 Fluoranthene



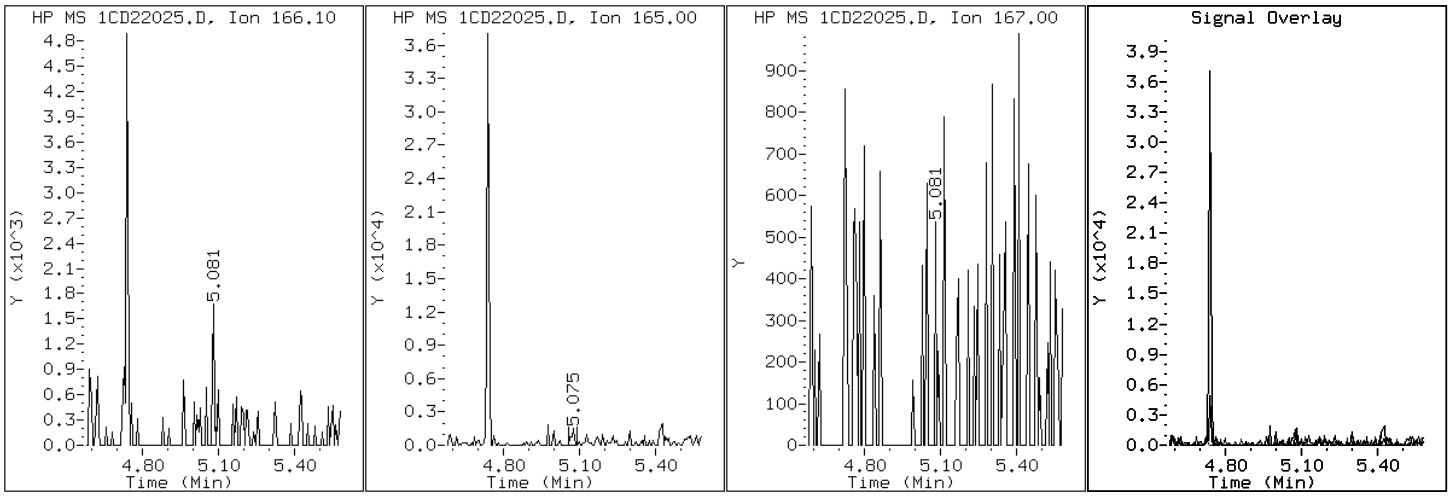
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

9 Fluorene



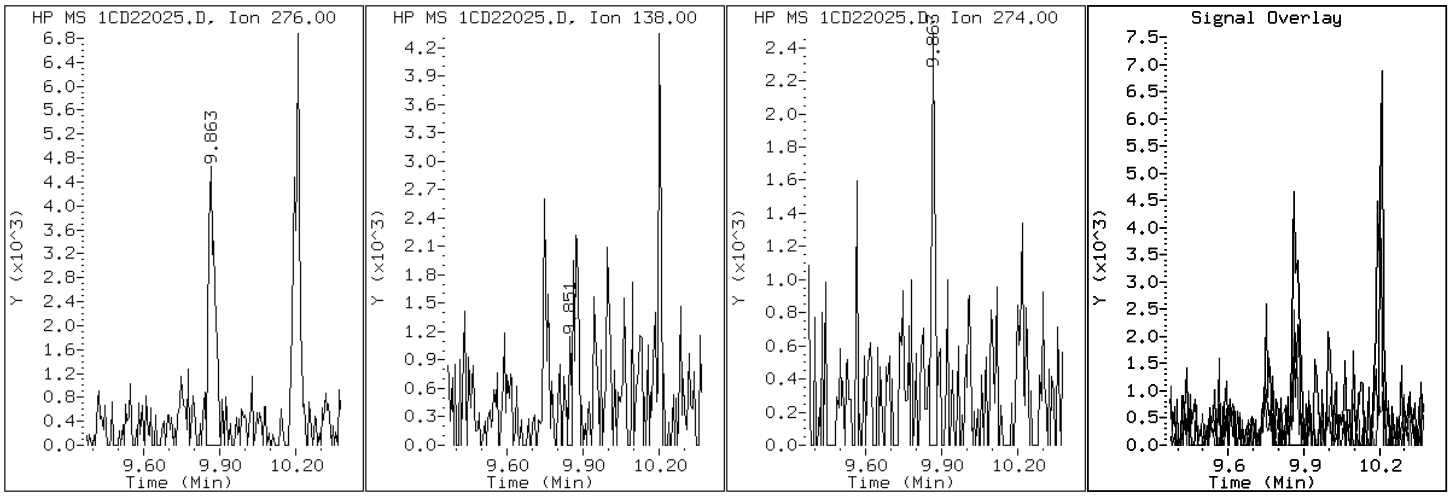
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

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



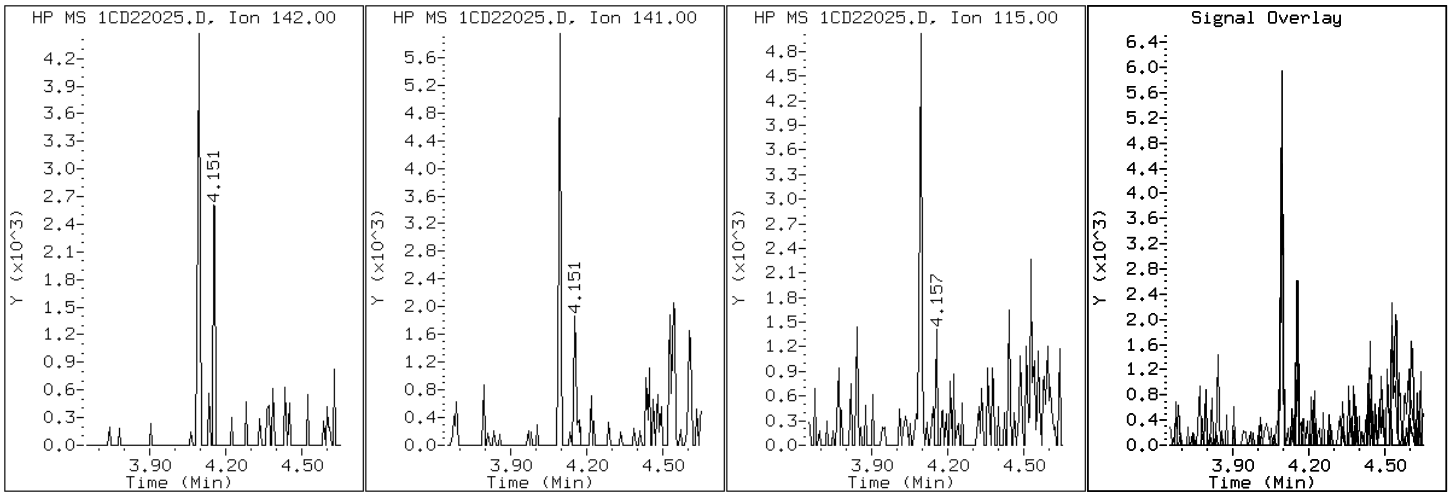
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

4 1-Methylnaphthalene



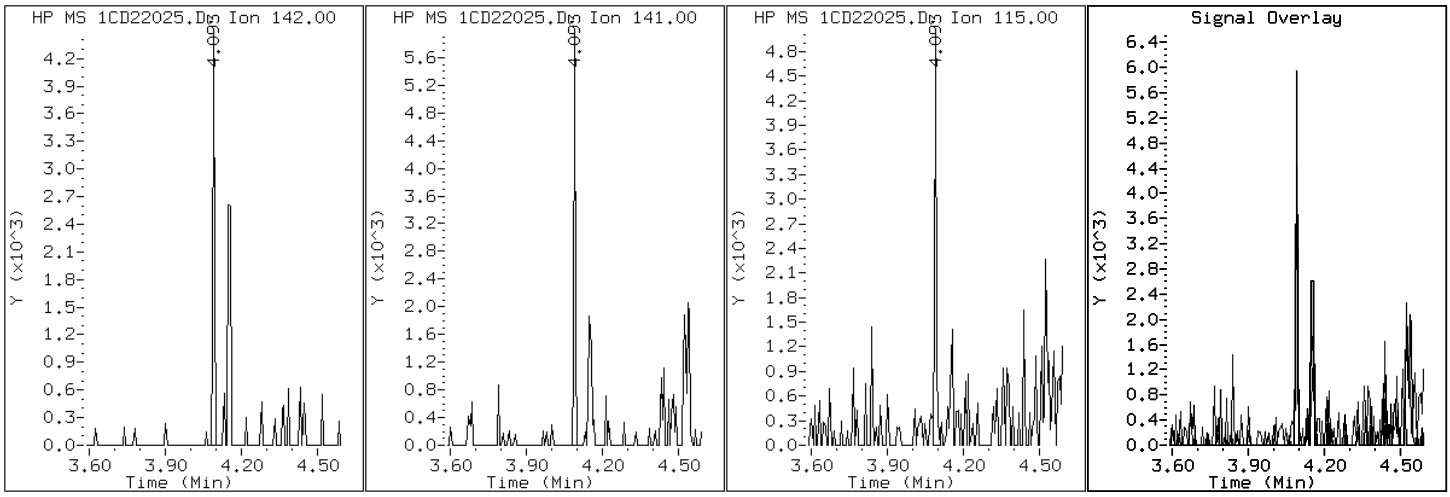
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

3 2-Methylnaphthalene



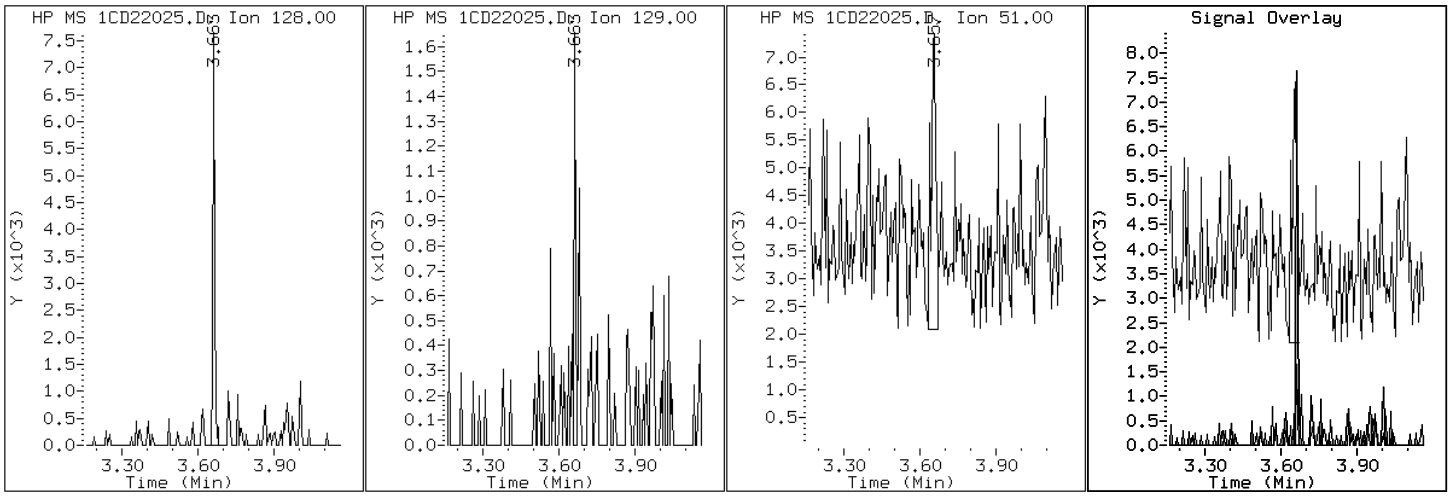
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

2 Naphthalene



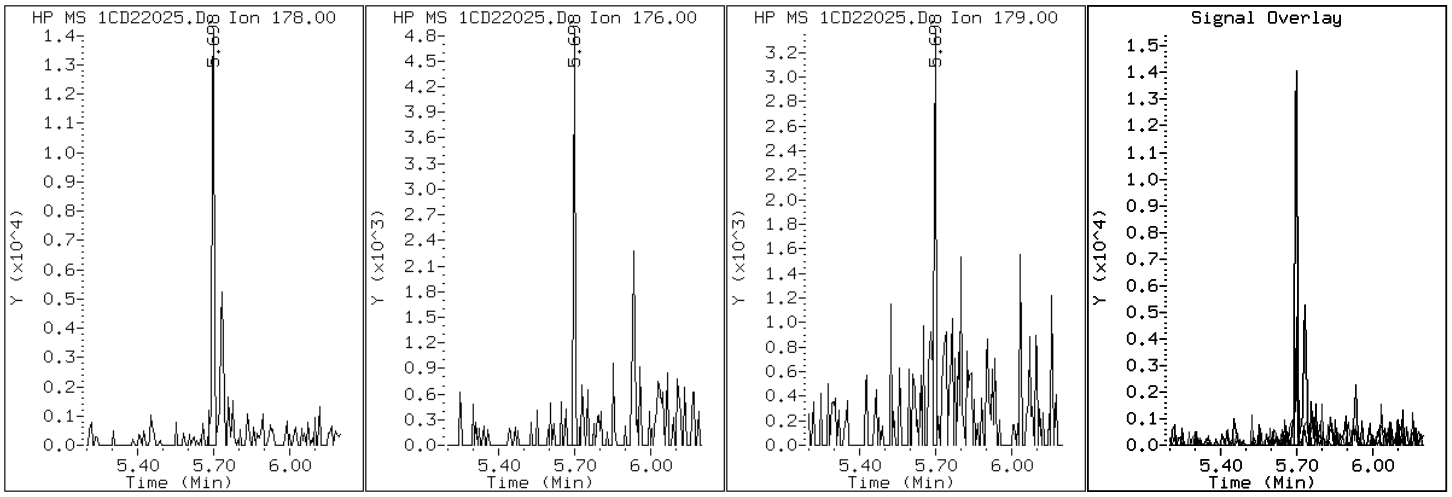
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

11 Phenanthrene



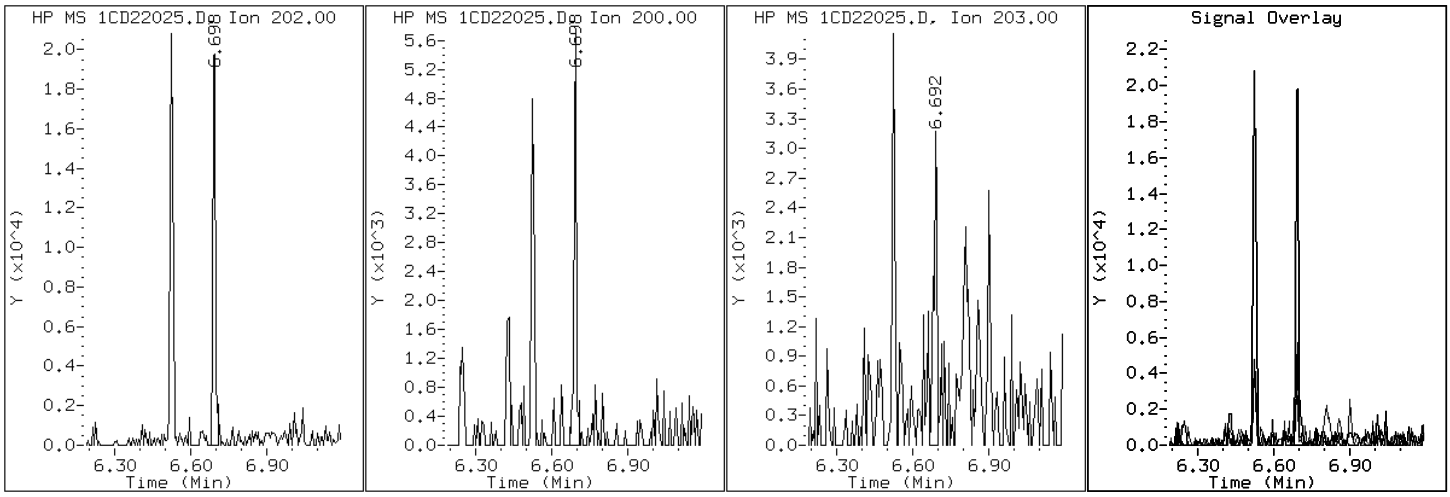
Data File: 1CD22025.D

Date: 22-APR-2013 19:18

Client ID: FM0106B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22025.D
Inj. Date and Time: 22-APR-2013 19:18
Instrument ID: BSMC5973.i
Client ID: FM0106B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

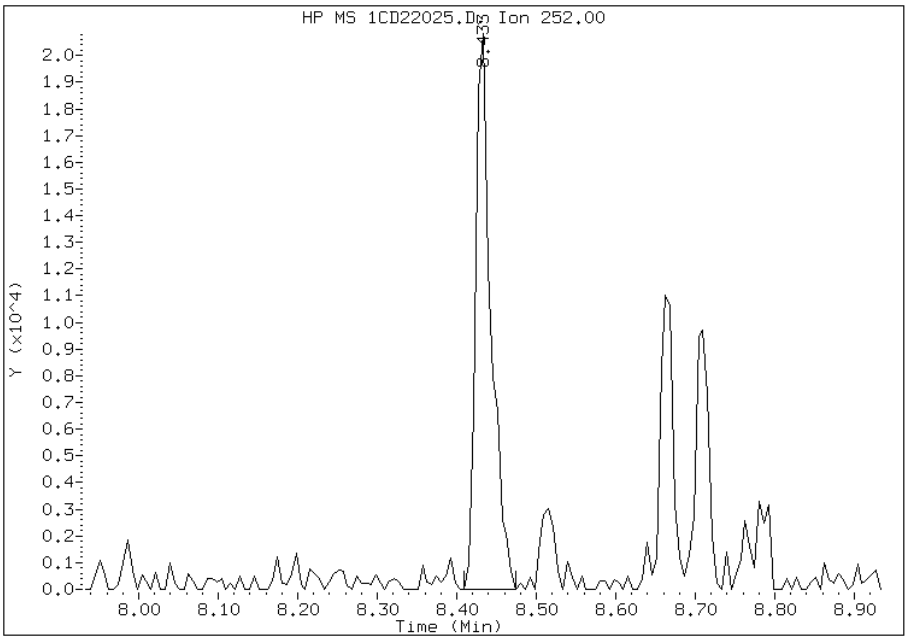
Processing Integration Results

RT: 8.43

Response: 27921

Amount: 4

Conc: 327



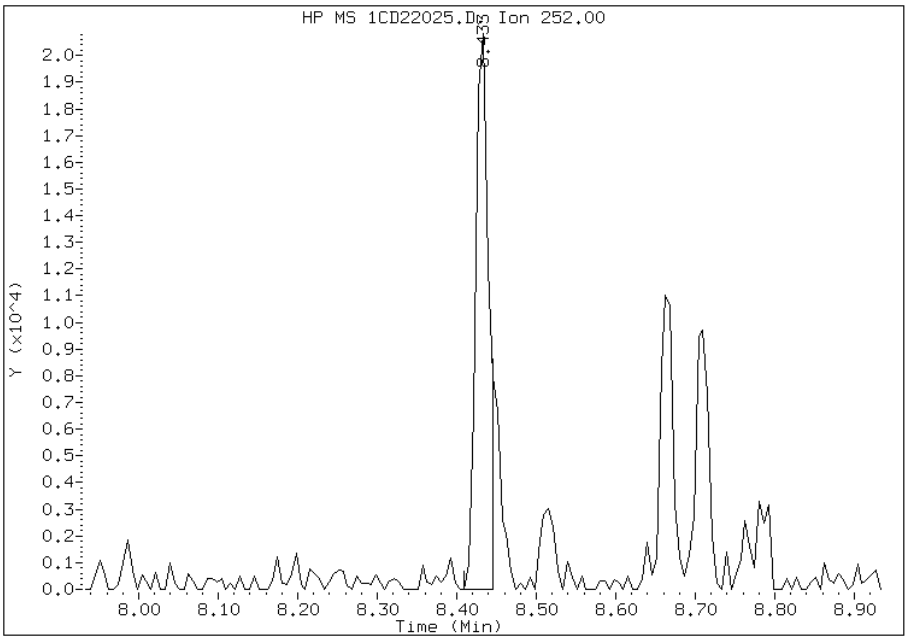
Manual Integration Results

RT: 8.43

Response: 23667

Amount: 3

Conc: 277



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22025.D
Inj. Date and Time: 22-APR-2013 19:18
Instrument ID: BSMC5973.i
Client ID: FM0106B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

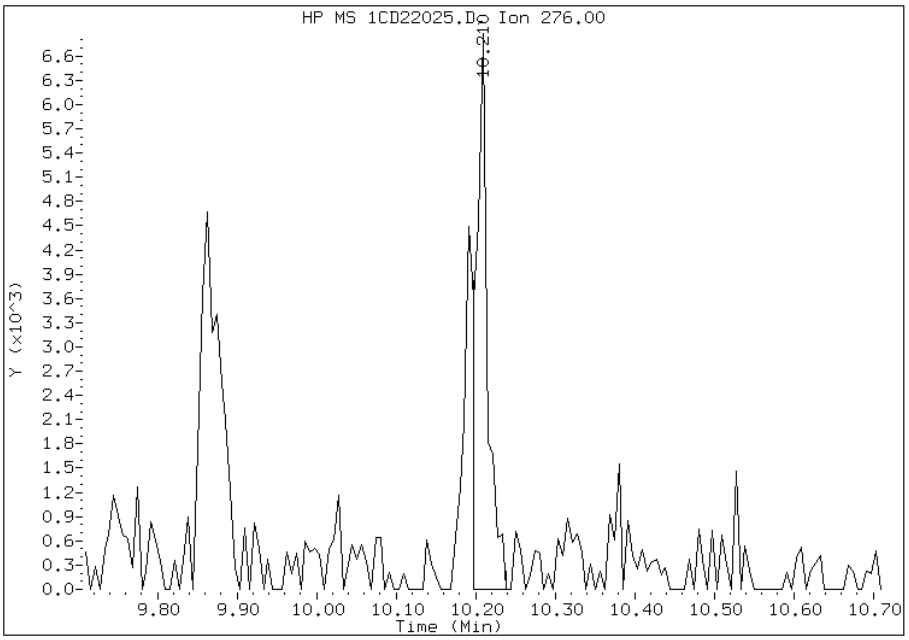
Processing Integration Results

RT: 10.21

Response: 7002

Amount: 1

Conc: 85



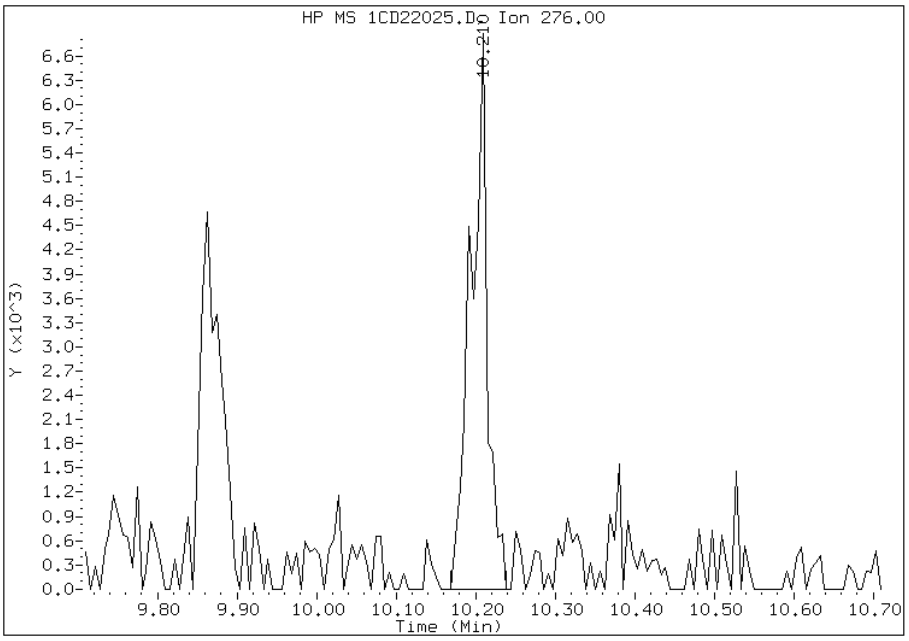
Manual Integration Results

RT: 10.21

Response: 9995

Amount: 1

Conc: 121



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22025.D
Inj. Date and Time: 22-APR-2013 19:18
Instrument ID: BSMC5973.i
Client ID: FM0106B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

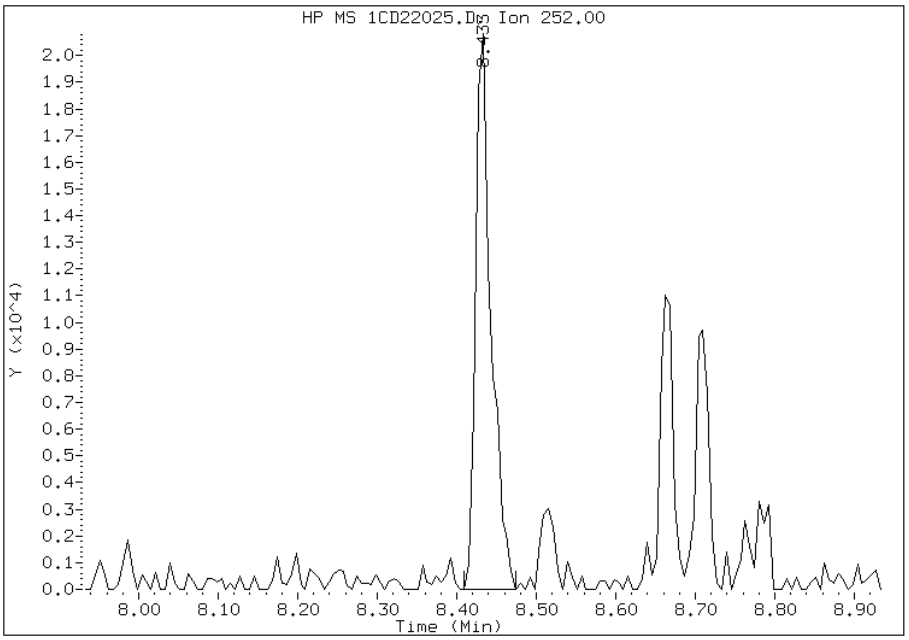
Processing Integration Results

RT: 8.43

Response: 27921

Amount: 3

Conc: 289



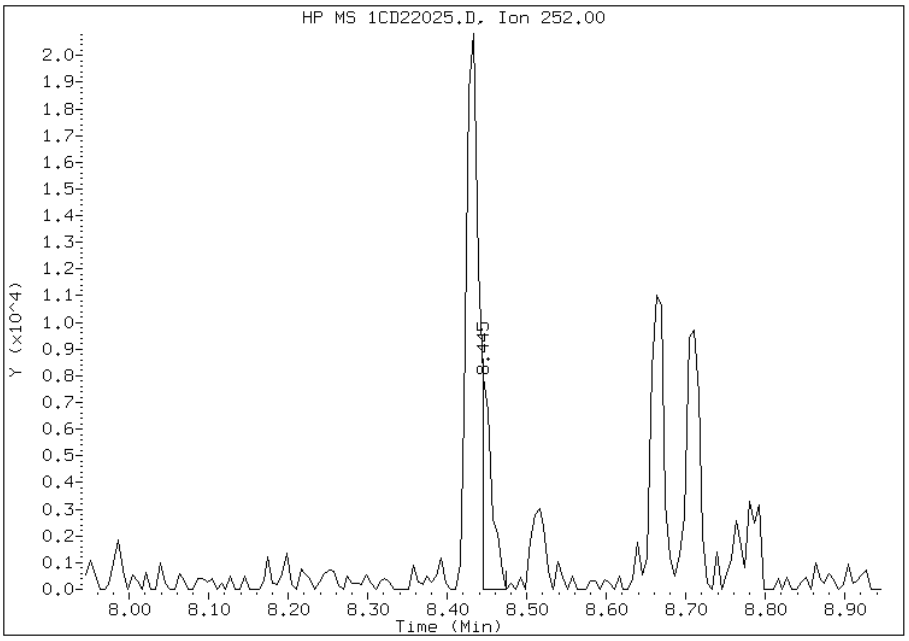
Manual Integration Results

RT: 8.45

Response: 7029

Amount: 1

Conc: 73



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:23
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: FM0106C-CS-SP | Lab Sample ID: 680-89421-9

Matrix: Solid | Lab File ID: 1CD22026.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 15:20

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.22(g) | Date Analyzed: 04/22/2013 19:36

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

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

% Moisture: 20.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	8.5	J	50	6.2
120-12-7	Anthracene	11		10	5.2
56-55-3	Benzo[a]anthracene	44		9.9	4.8
50-32-8	Benzo[a]pyrene	38		13	6.4
205-99-2	Benzo[b]fluoranthene	67		15	7.6
191-24-2	Benzo[g,h,i]perylene	33		25	5.4
207-08-9	Benzo[k]fluoranthene	24		9.9	4.5
218-01-9	Chrysene	69		11	5.6
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.1
206-44-0	Fluoranthene	49		25	5.0
86-73-7	Fluorene	14	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	86		25	8.8
90-12-0	1-Methylnaphthalene	35	J	50	5.4
91-57-6	2-Methylnaphthalene	58		50	8.8
91-20-3	Naphthalene	38	J	50	5.4
85-01-8	Phenanthrene	49		9.9	4.8
129-00-0	Pyrene	48		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22026.D
Lab Smp Id: 680-89421-A-9-A Client Smp ID: FM0106C-CS-SP
Inj Date : 22-APR-2013 19:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-9-a
Misc Info : 680-89421-A-9-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	15.220	Weight Extracted
M	20.404	% 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	3.651	3.651	(1.000)	207811	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	148128	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	289974	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.045)	29483	6.82958	563.7494
*	18 Chrysene-d12	240	7.610	7.615	(1.000)	300241	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	291391	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	2563	0.45626	37.6617(Q)
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	1618	0.70339	58.0612
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	1539	0.42890	35.4039
	5 Acenaphthylene	152	4.657	4.651	(0.983)	645	0.10276	8.4823
	9 Fluorene	166	5.080	5.080	(1.072)	817	0.16973	14.0099(Q)
	11 Phenanthrene	178	5.698	5.698	(1.003)	4998	0.59431	49.0570
	12 Anthracene	178	5.727	5.733	(1.008)	1102	0.13091	10.8056
	13 Carbazole	167	5.839	5.839	(1.028)	1141	0.14553	12.0127(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.527	6.527	(1.149)	5541	0.58904	48.6224
16 Pyrene	202	6.692	6.692	(0.879)	4934	0.57765	47.6820
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	4551	0.53603	44.2465
19 Chrysene	228	7.627	7.633	(1.002)	7047	0.83903	69.2581
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	5986	0.81334	67.1371
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	2464	0.29587	24.4225(Q)
22 Benzo(a)pyrene	252	8.710	8.709	(0.994)	3481	0.45756	37.7695
24 Indeno(1,2,3-cd)pyrene	276	9.862	9.874	(1.126)	3046	1.04242	86.0470(M)
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	2892	0.40557	33.4777(M)

QC Flag Legend

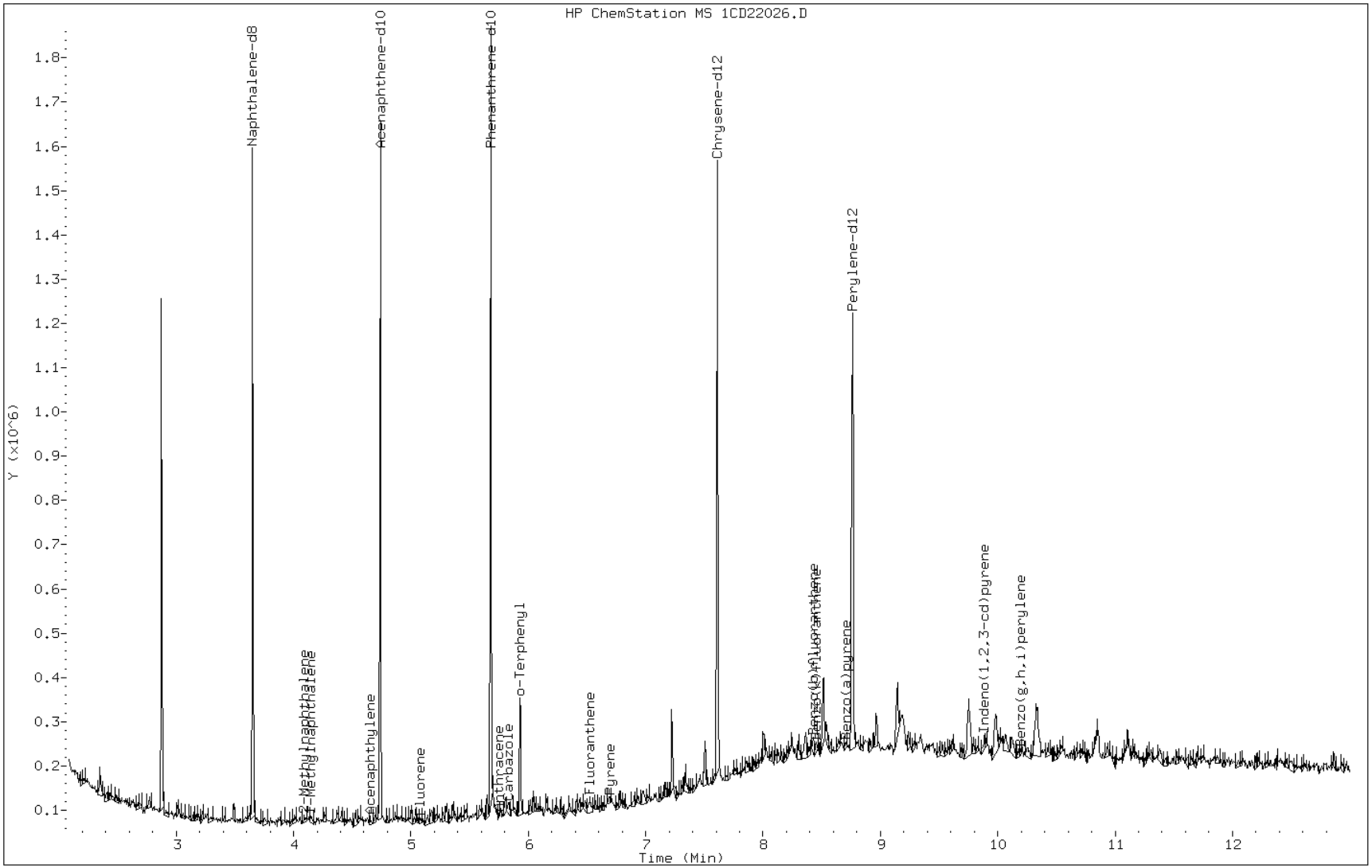
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC



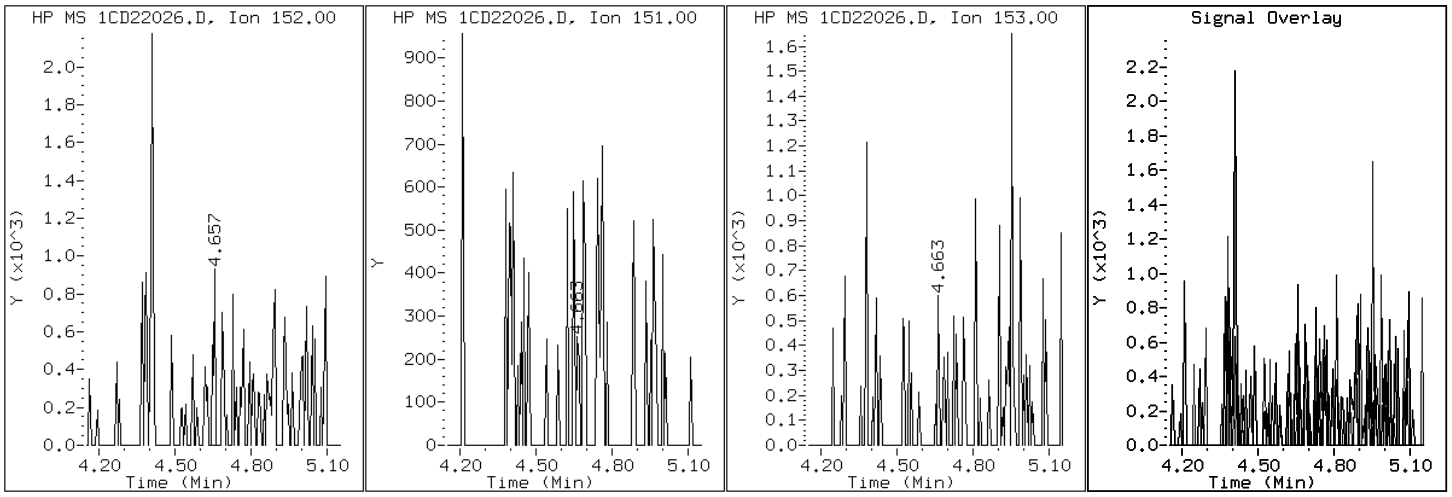
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

5 Acenaphthylene



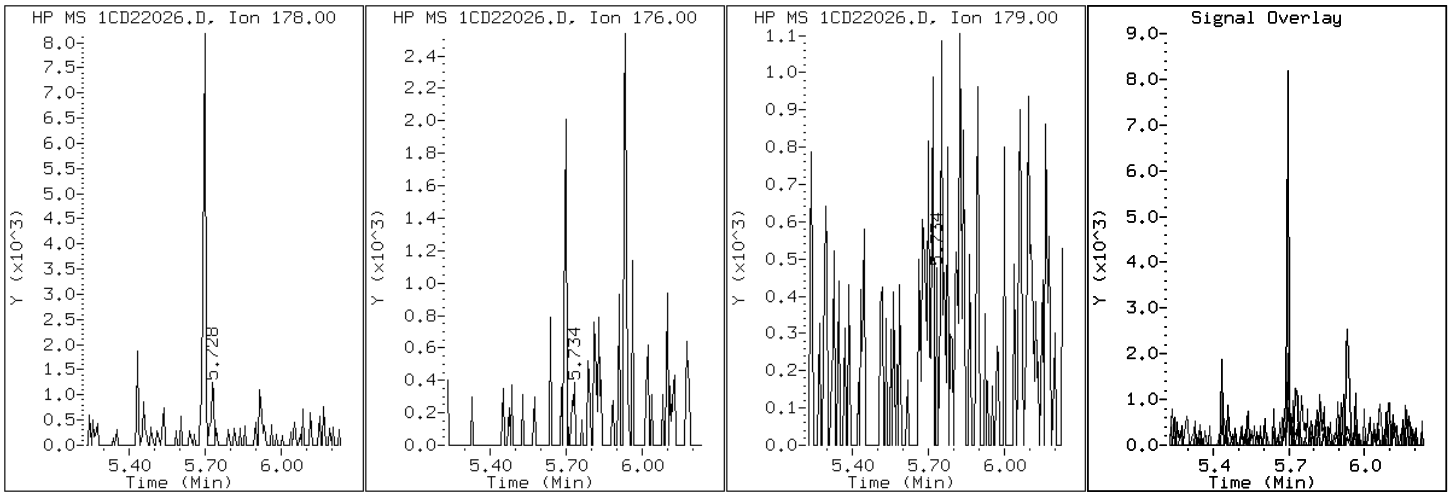
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

12 Anthracene



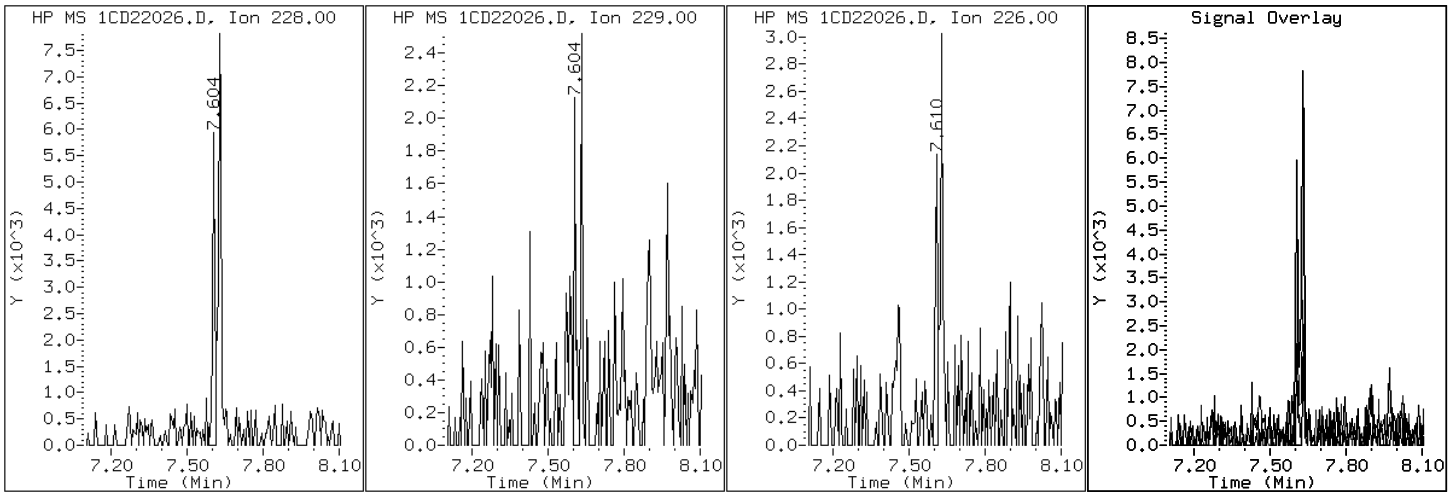
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

17 Benzo(a)anthracene



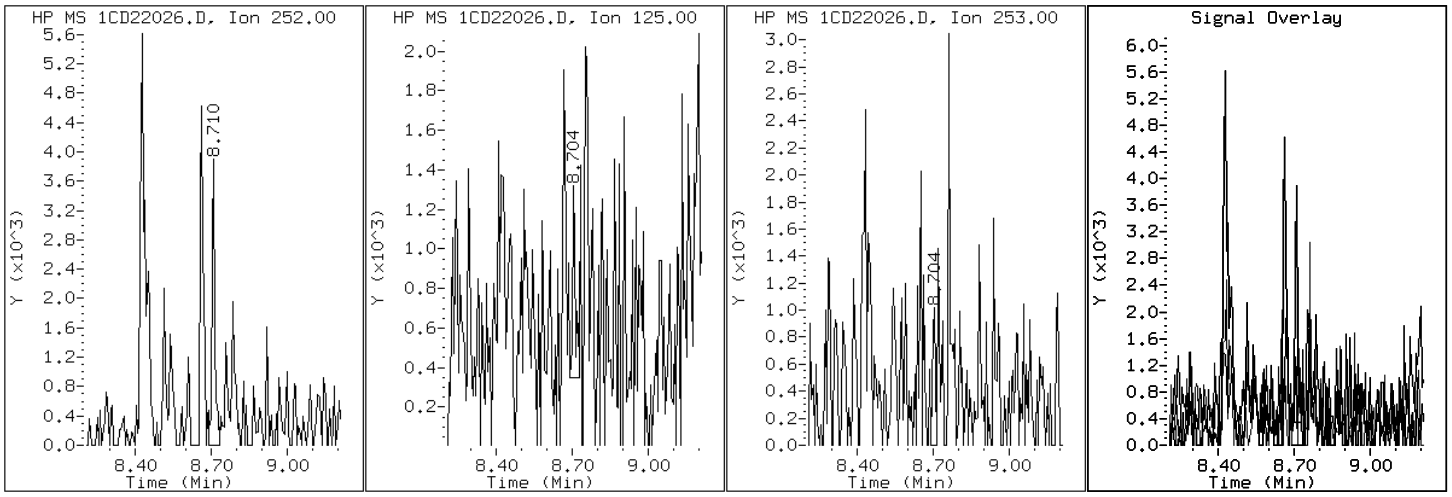
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

22 Benzo(a)pyrene



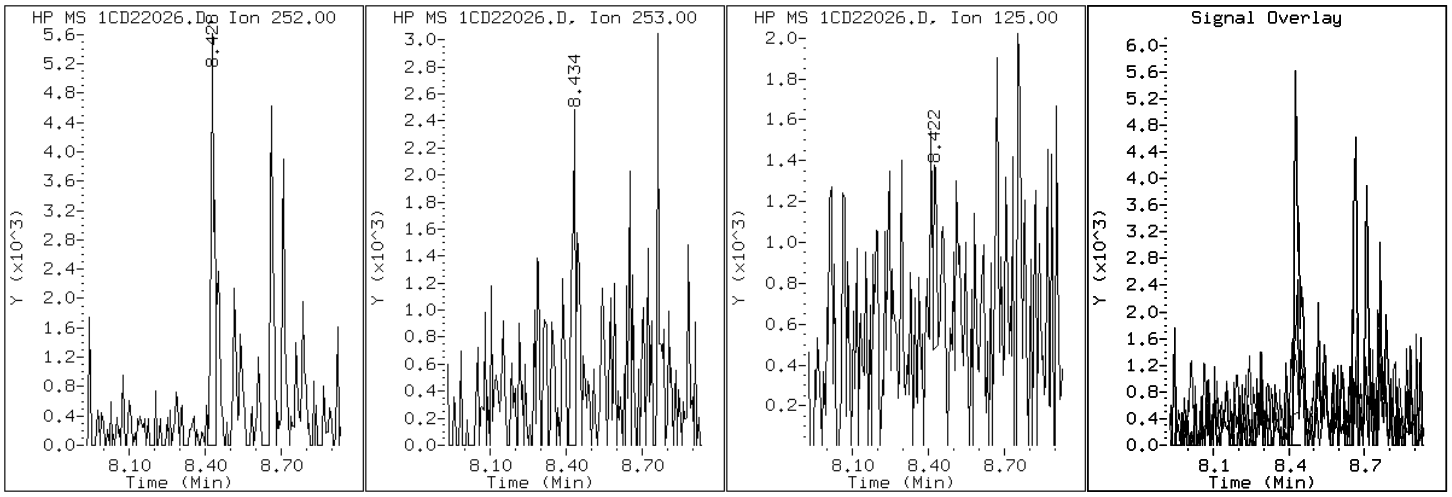
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



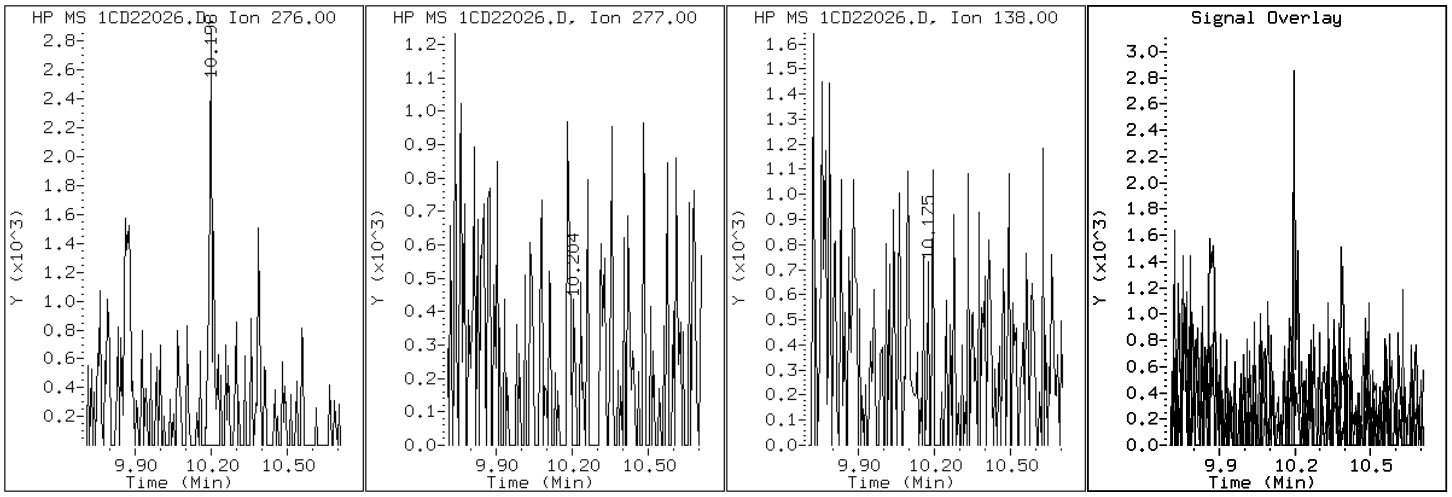
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22026.D

Date: 22-APR-2013 19:36

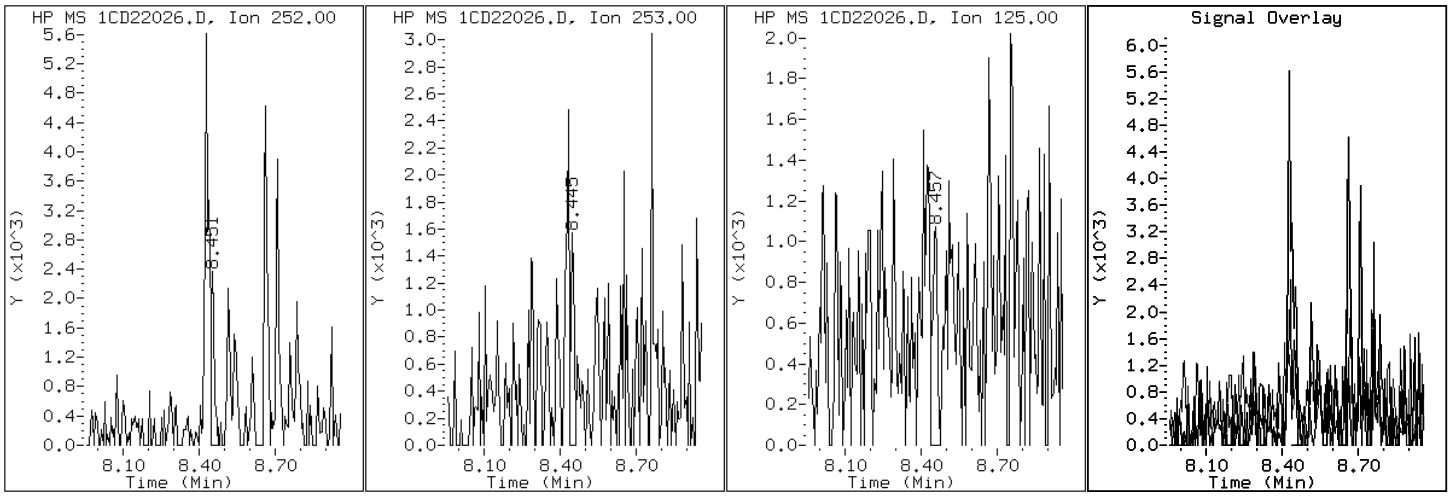
Client ID: FM0106C-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



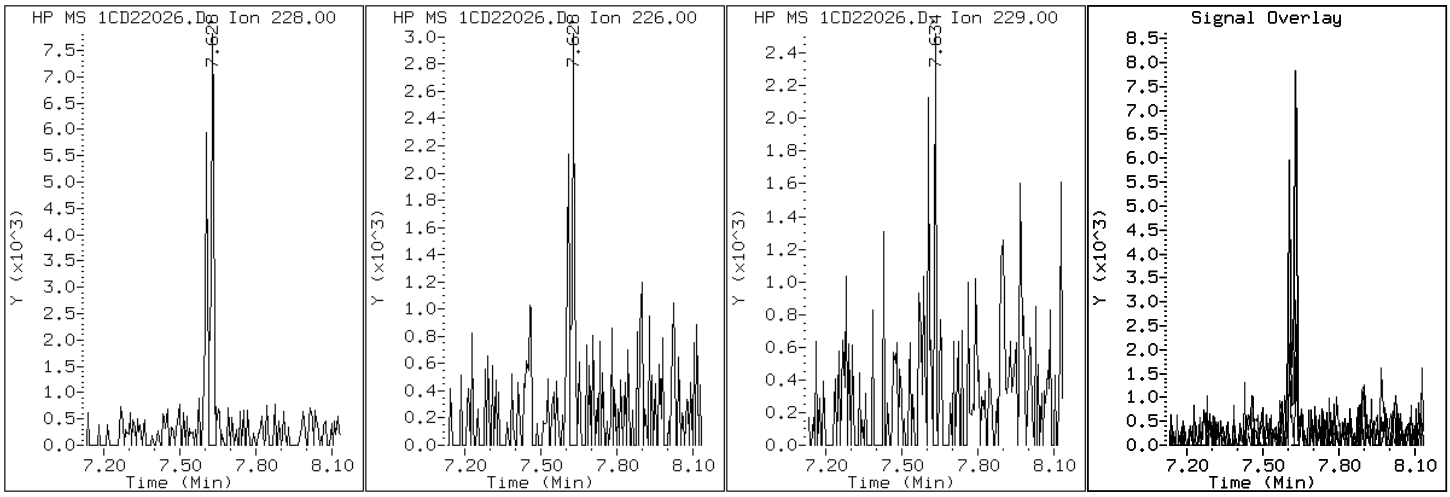
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

19 Chrysene



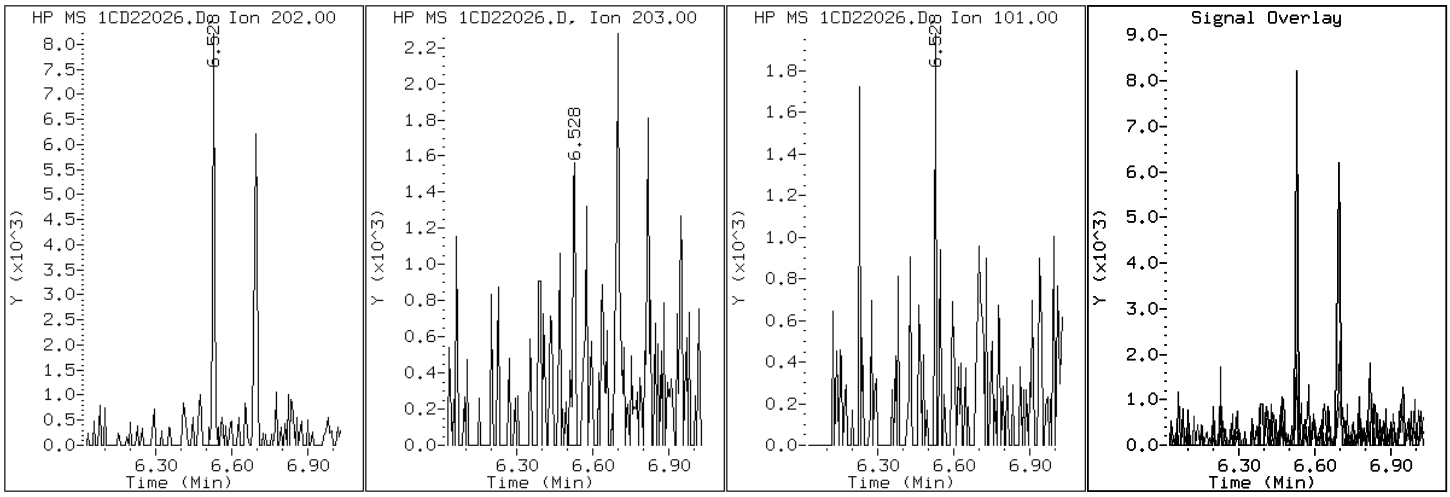
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

15 Fluoranthene



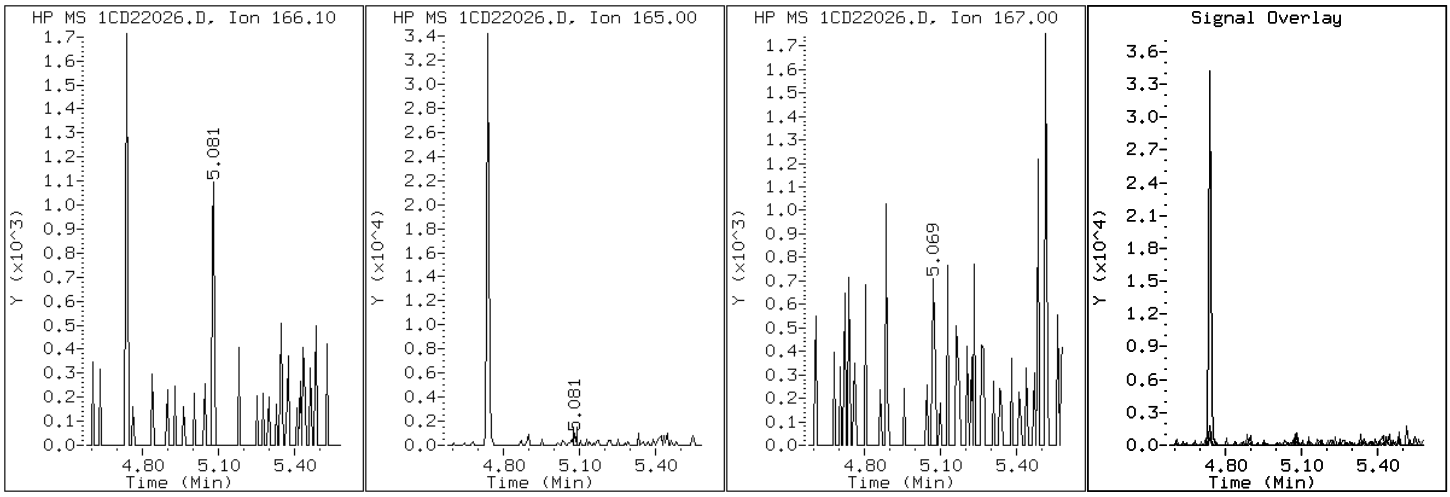
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

9 Fluorene



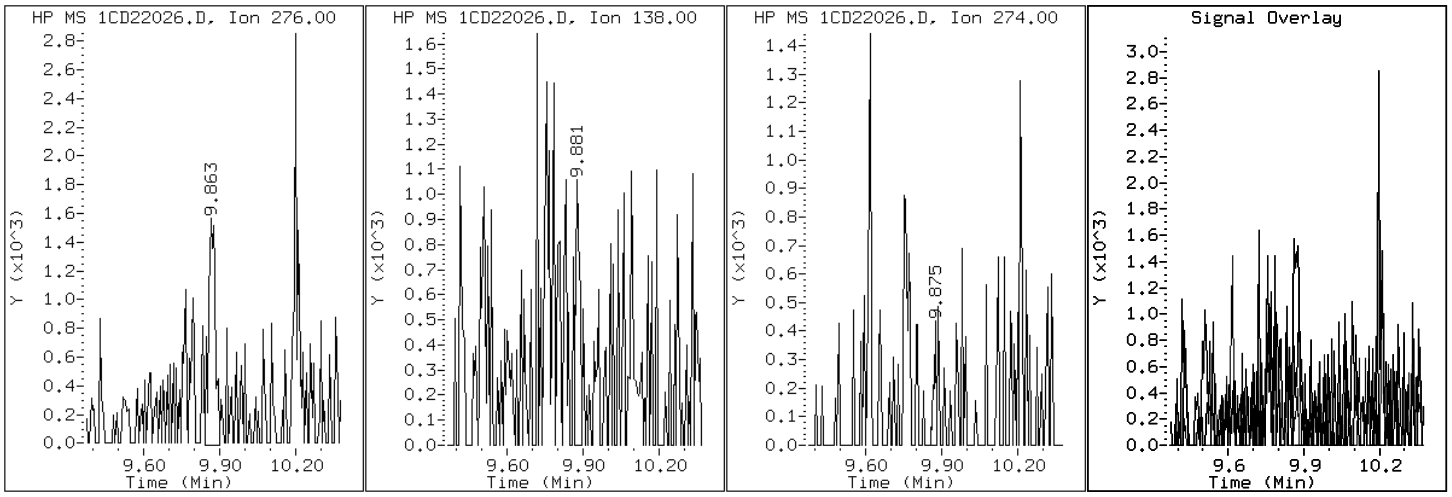
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

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



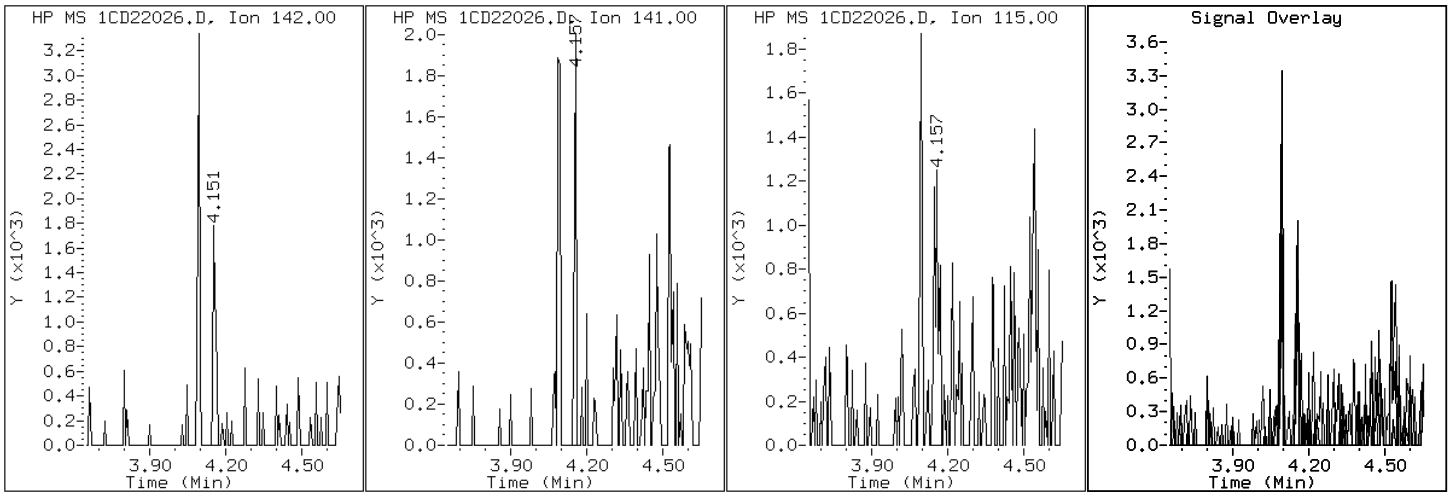
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

4 1-Methylnaphthalene



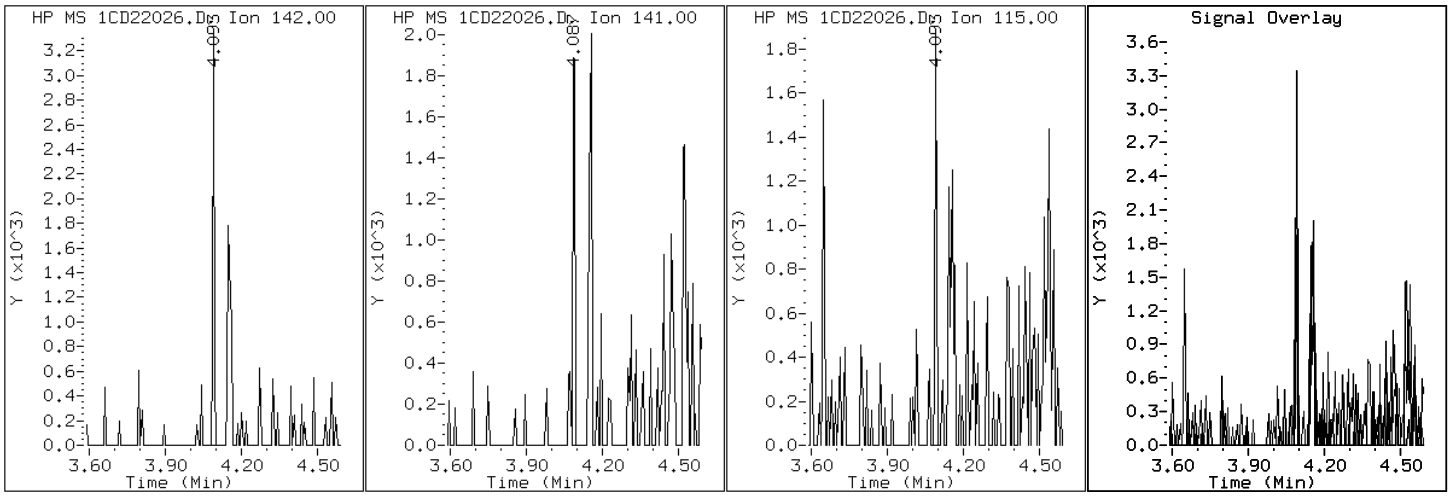
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

3 2-Methylnaphthalene



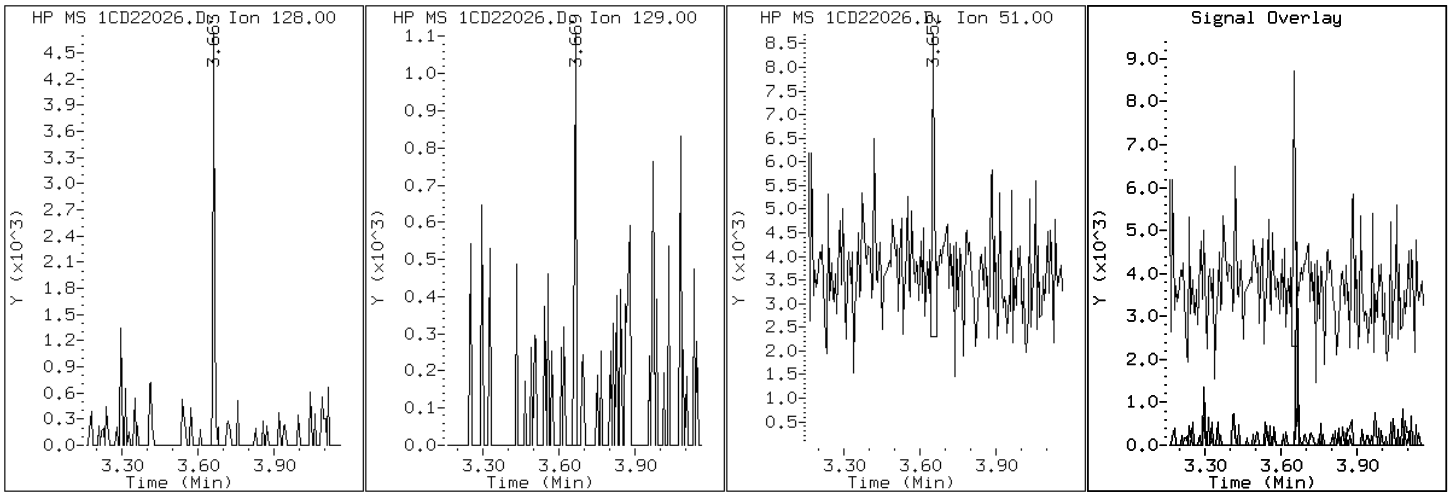
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

2 Naphthalene



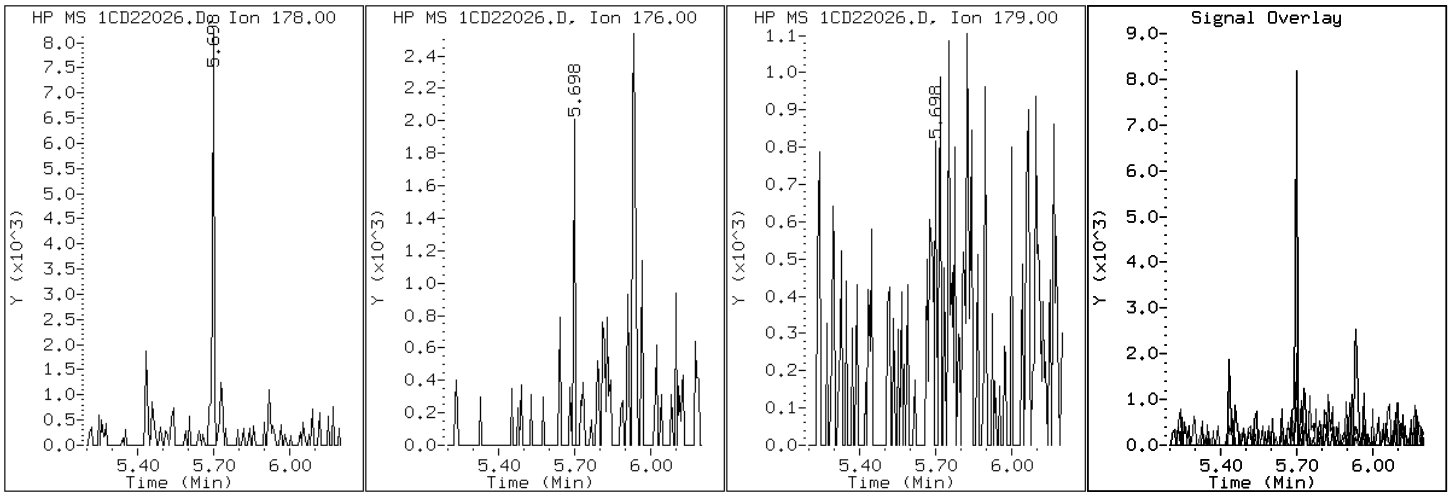
Data File: 1CD22026.D

Date: 22-APR-2013 19:36

Client ID: FM0106C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a Operator: SCC

11 Phenanthrene



Data File: 1CD22026.D

Date: 22-APR-2013 19:36

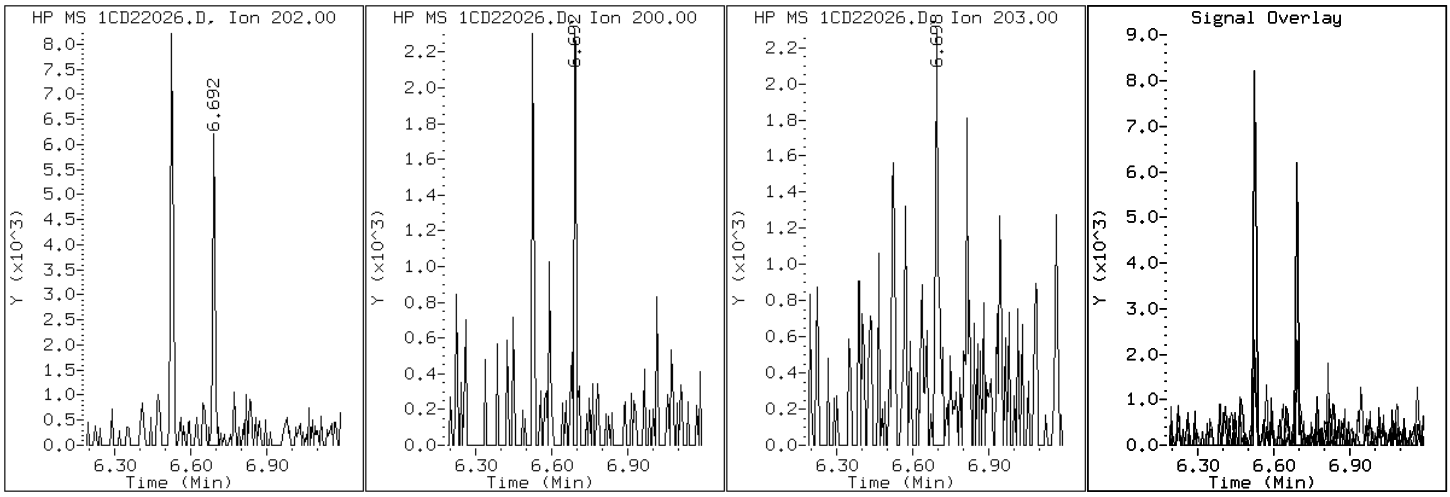
Client ID: FM0106C-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89421-a-9-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD22026.D
Inj. Date and Time: 22-APR-2013 19:36
Instrument ID: BSMC5973.i
Client ID: FM0106C-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

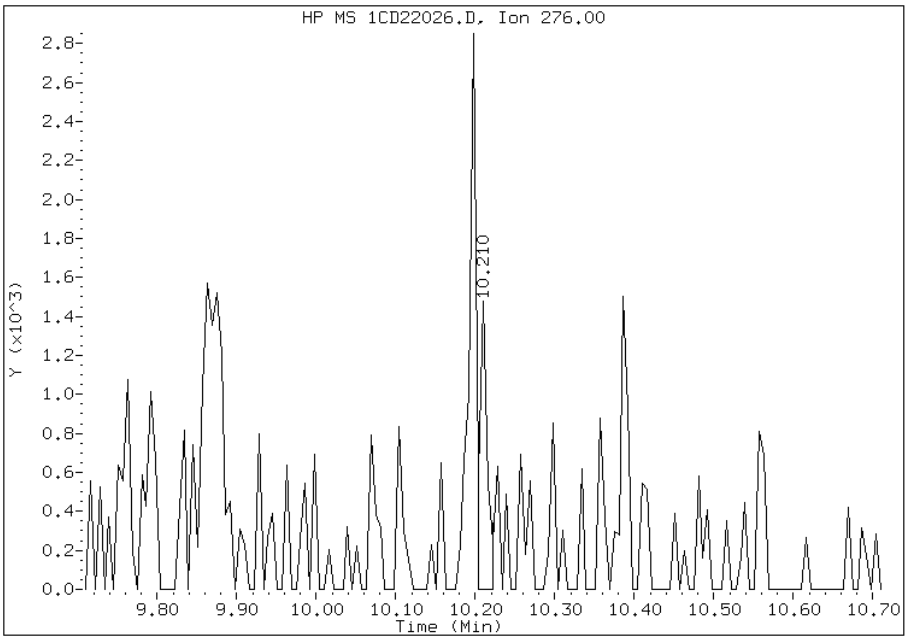
Processing Integration Results

RT: 10.21

Response: 1008

Amount: 0

Conc: 12



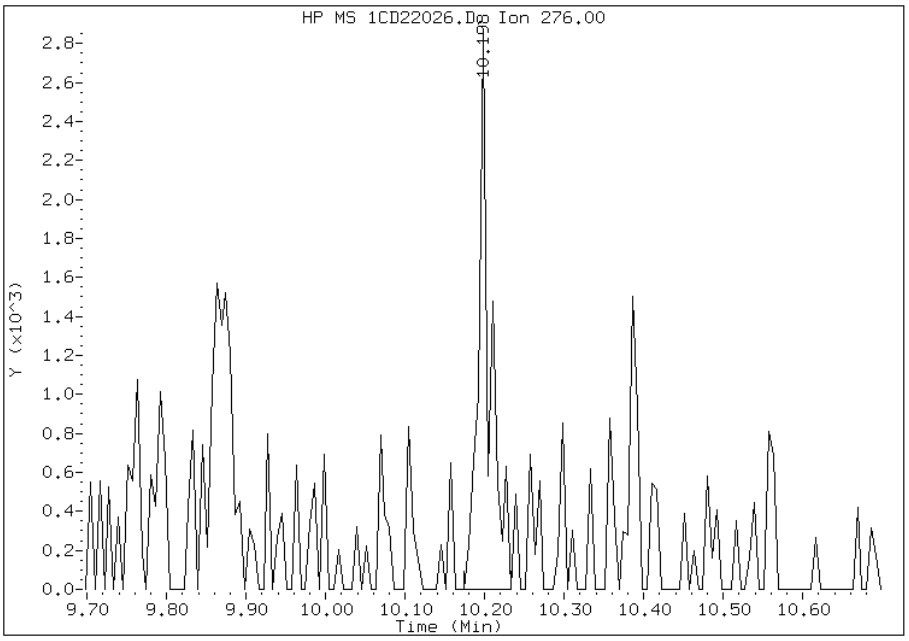
Manual Integration Results

RT: 10.20

Response: 2892

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22026.D
Inj. Date and Time: 22-APR-2013 19:36
Instrument ID: BSMC5973.i
Client ID: FM0106C-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

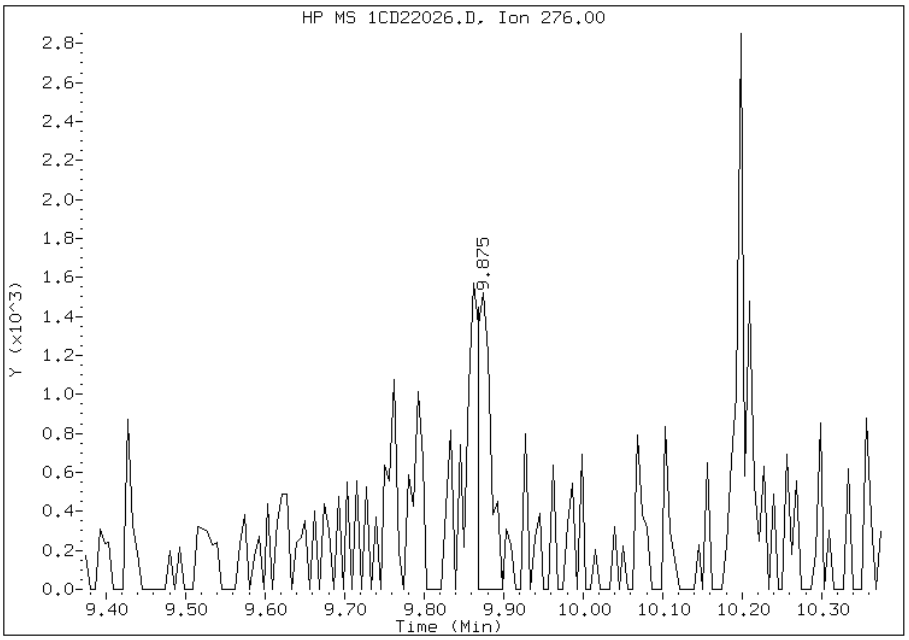
Processing Integration Results

RT: 9.87

Response: 1733

Amount: 1

Conc: 72



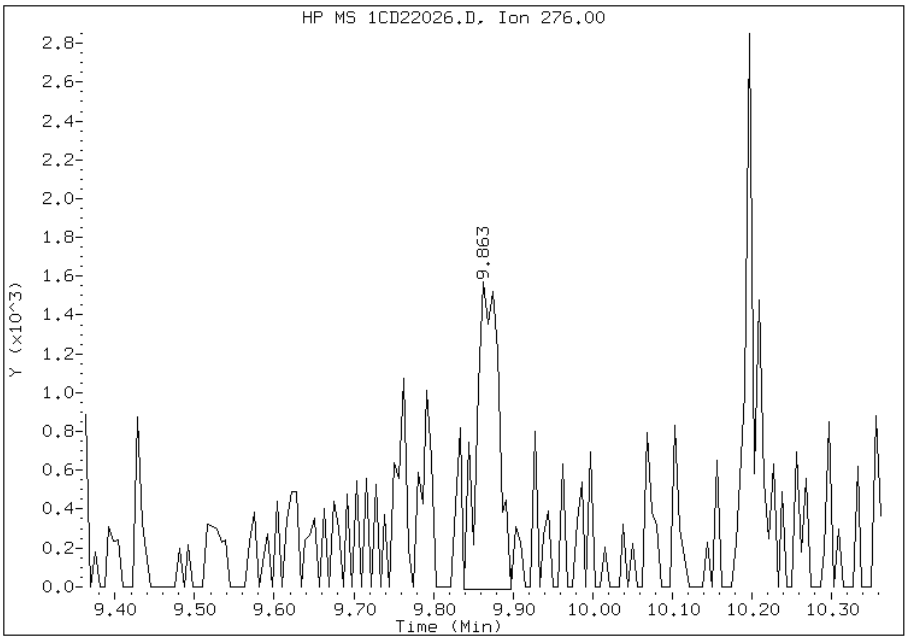
Manual Integration Results

RT: 9.86

Response: 3046

Amount: 1

Conc: 86



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:24
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: 041513-RB-Shovel | Lab Sample ID: 680-89421-10

Matrix: Water | Lab File ID: 1CD18017.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 16:00

Extract. Method: 3520C | Date Extracted: 04/17/2013 12:20

Sample wt/vol: 980(mL) | Date Analyzed: 04/18/2013 16:17

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.: 136605 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.51
208-96-8	Acenaphthylene	1.0	U	1.0	0.26
120-12-7	Anthracene	0.20	U	0.20	0.078
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.051
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.058
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.051
191-24-2	Benzo[g,h,i]perylene	0.51	U	0.51	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.058
218-01-9	Chrysene	0.20	U	0.20	0.070
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.051
206-44-0	Fluoranthene	0.51	U	0.51	0.055
86-73-7	Fluorene	2.0	U	2.0	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.051
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.51
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.51
91-20-3	Naphthalene	2.0	U	2.0	0.26
85-01-8	Phenanthrene	0.51	U	0.51	0.20
129-00-0	Pyrene	0.51	U	0.51	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18017.D
Lab Smp Id: 680-89421-A-10-A Client Smp ID: 041513-RB-Shovel
Inj Date : 18-APR-2013 16:17
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-10-a
Misc Info : 680-89421-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m
Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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/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	980.000	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

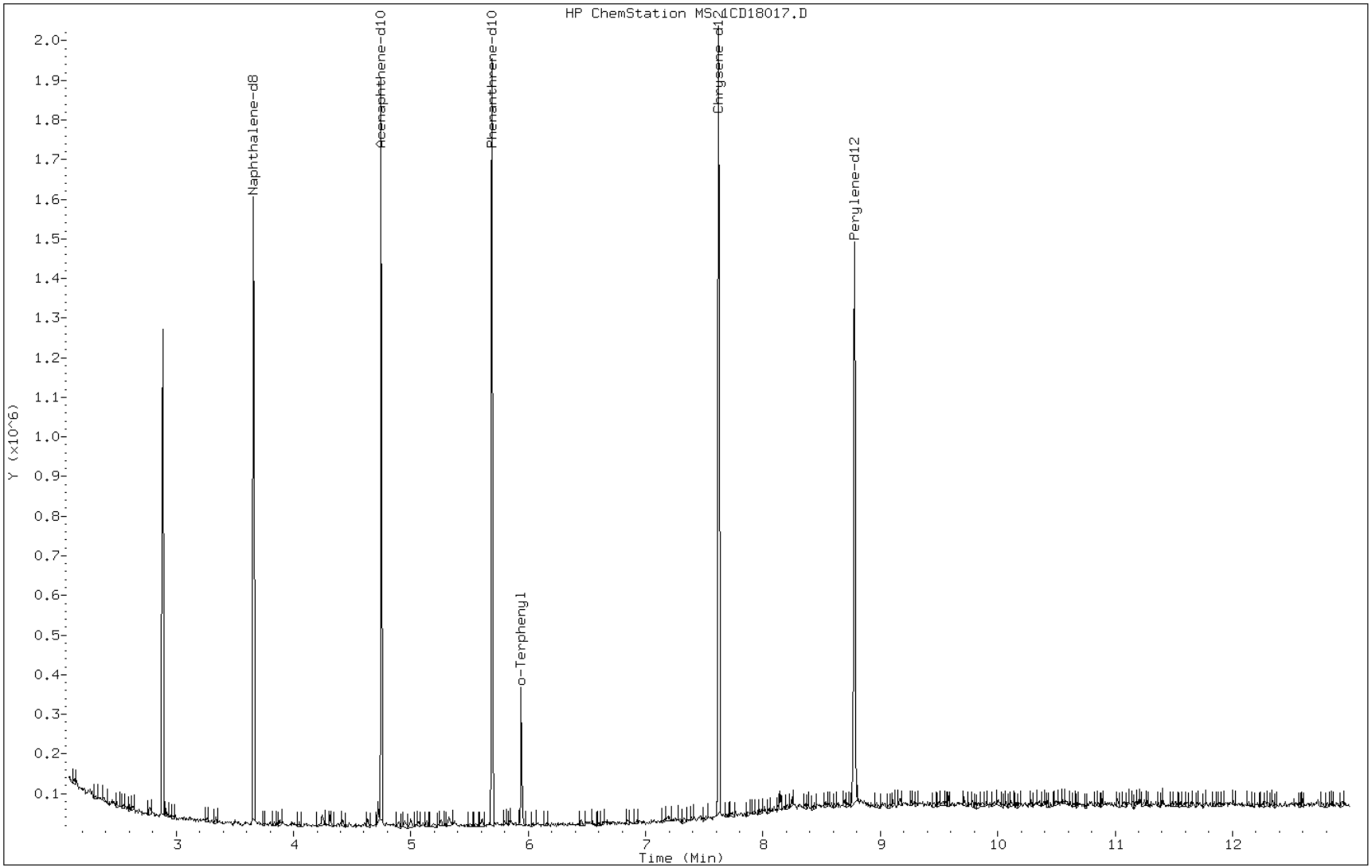
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
* 1 Naphthalene-d8	136	3.657	3.663	(1.000)	278998	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	191054	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	374624	40.0000	
$ 14 o-Terphenyl	230	5.939	5.945	(1.043)	28028	5.20767	5.3139
* 18 Chrysene-d12	240	7.621	7.627	(1.000)	440313	40.0000	
* 23 Perylene-d12	264	8.780	8.780	(1.000)	453610	40.0000	

Data File: 1CD18017.D

Date: 18-APR-2013 16:17

Client ID: 041513-RB-Shovel Instrument: BSMC5973.i

Sample Info: 680-89421-a-10-a Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89421-1 Analy Batch No.: 136370

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.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	1.0403 1.0845	1.1154 1.0398	1.1255	1.0833	1.0799	Ave		1.0813			0.0000	3.1		15.0			
2-Methylnaphthalene	0.4518 0.7139	0.7915 0.7215	0.6274	0.6964	0.7086	Lin	0.0068	0.7231			0.0000				0.9998		0.9900
1-Methylnaphthalene	0.8501 0.6677	0.6263 0.6578	0.7166	0.6190	0.6973	Ave		0.6907			0.0000	11.4		15.0			
Acenaphthylene	1.6419 1.8703	1.3506 1.6568	1.8874	1.7159	1.7417	Ave		1.6949			0.0000	10.6		15.0			
Acenaphthene	0.9825 1.0658	0.8838 1.0336	1.0463	1.1258	1.0124	Ave		1.0214			0.0000	7.4		15.0			
Fluorene	1.4896 1.3834	0.9662 1.2871	1.3197	1.3886	1.2644	Ave		1.2999			0.0000	12.7		15.0			
Phenanthrene	2.1565 1.1836	1.0586 1.1536	1.1958	1.1594	1.1404	Qua	0.0002	0.8500	0.0102		0.0000				0.9997		0.9900
Anthracene	1.0455 1.1188	1.2005 1.2175	1.1643	1.1719	1.2102	Ave		1.1612			0.0000	5.3		15.0			
Carbazole	1.3254 1.0648	0.9055 1.0829	1.1357	1.0658	0.9905	Ave		1.0815			0.0000	12.1		15.0			
Fluoranthene	1.1179 1.2730	1.3921 1.3602	1.2694	1.3341	1.3364	Ave		1.2976			0.0000	7.0		15.0			
Pyrene	1.2897 1.1555	0.9972 1.1333	1.1447	1.1276	1.1177	Ave		1.1380			0.0000	7.5		15.0			
Benzo[a]anthracene	1.8552 1.1480	1.4389 1.1253	1.1508	1.0977	1.1349	LinF		1.1311			0.0000				0.9998		0.9900
Chrysene	1.1739 1.1646	0.9735 1.1563	1.1877	1.0757	1.1010	Ave		1.1190			0.0000	6.8		15.0			
Benzo[b]fluoranthene	0.7438 1.0730	0.9477 1.0842	1.1078	1.0038	1.1118	Ave		1.0103			0.0000	13.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89421-1 Analy Batch No.: 136370

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

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	1.0957 1.1960	1.0347 1.3382	1.1426	1.1475	1.0478	Ave		1.1432			0.0000	9.0		15.0			
Benzo[a]pyrene	1.0857 1.0737	0.9221 1.1530	1.0427	1.0583	0.9747	Ave		1.0443			0.0000	7.2		15.0			
Indeno[1,2,3-cd]pyrene	1.4093 0.9346	0.8576 1.0494	0.9853	0.8955	1.0192	Lin	0.0160	1.0375			0.0000				0.9958		0.9900
Dibenz(a,h)anthracene	1.3482 0.9834	0.8948 1.0265	0.9138	0.9357	0.9949	Lin	0.0112	1.0243			0.0000				0.9993		0.9900
Benzo[g,h,i]perylene	0.7587 0.9881	1.0764 1.0165	0.9898	1.0387	0.9838	Ave		0.9789			0.0000	10.5		15.0			
o-Terphenyl	0.2006 0.5933	0.7698 0.6744	0.6516	0.6045	0.6070	Lin	0.0172	0.6624			0.0000				0.9945		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.: 680-89421-1 Analy Batch No.: 136370

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.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	1285 178326	6408 318955	33340	66803	132678	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	558 117387	4547 221322	18585	42945	87061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1050 109784	3598 201768	21228	38170	85663	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	1337 212811	5176 370532	39114	69442	156488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	800 121274	3387 231163	21682	45560	90964	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	1213 157410	3703 287857	27348	56195	113606	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	3451 259782	7274 472306	47149	85752	182675	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1673 245548	8249 498469	45907	86681	193854	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2121 233698	6222 443362	44777	78836	158666	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1789 279401	9565 556889	50052	98679	214080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2372 307735	8697 619923	55349	104590	229647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	3412 305726	12549 615507	55643	101817	233188	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2159 310162	8490 632502	57430	99776	226221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1499 299492	9159 576085	56470	93677	243941	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2208 333825	10000 711099	58242	107089	229890	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.: 680-89421-1 Analy Batch No.: 136370

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

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	2188 299708	8912 612644	53152	98767	213852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	2840 260884	8288 557635	50225	83577	223617	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin	2717 274497	8648 545458	46577	87325	218275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1529 275805	10403 540151	50451	96936	215845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	321 130217	5289 276100	25692	44711	97236	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
LinF = Linear ISTD forced zero
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 11-APR-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	3.675	3.675	(1.000)	245713	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	179699	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	320372	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	97236	20.0000	19.0180
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	410945	40.0000	
*	23 Perylene-d12	264	8.804	8.804	(1.000)	438804	40.0000	
	2 Naphthalene	128	3.686	3.686	(1.003)	132678	20.0000	19.9755
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	87061	20.0000	21.0586
	4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	85663	20.0000	20.1908
	5 Acenaphthylene	152	4.674	4.674	(0.981)	156488	20.0000	20.5512
	7 Acenaphthene	154	4.780	4.780	(1.004)	90964	20.0000	19.3885
	9 Fluorene	166	5.104	5.104	(1.072)	113606	20.0000	19.4543
	11 Phenanthrene	178	5.721	5.721	(1.003)	182675	20.0000	17.6453
	12 Anthracene	178	5.757	5.757	(1.009)	193854	20.0000	20.8428
	13 Carbazole	167	5.863	5.863	(1.028)	158666	20.0000	18.3169
	15 Fluoranthene	202	6.557	6.557	(1.150)	214080	20.0000	20.5986
	16 Pyrene	202	6.721	6.721	(0.879)	229647	20.0000	19.6431
	17 Benzo(a)anthracene	228	7.633	7.633	(0.998)	233188	20.0000	20.0156
	19 Chrysene	228	7.663	7.663	(1.002)	226221	20.0000	19.6785
	20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	243941	20.0000	22.0102
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	229890	20.0000	18.3309
	22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	213852	20.0000	18.6665
	24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	223617	20.0000	19.9538(M)
	25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	218275	20.0000	19.6244
	26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	215845	20.0000	20.1007

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11003.D

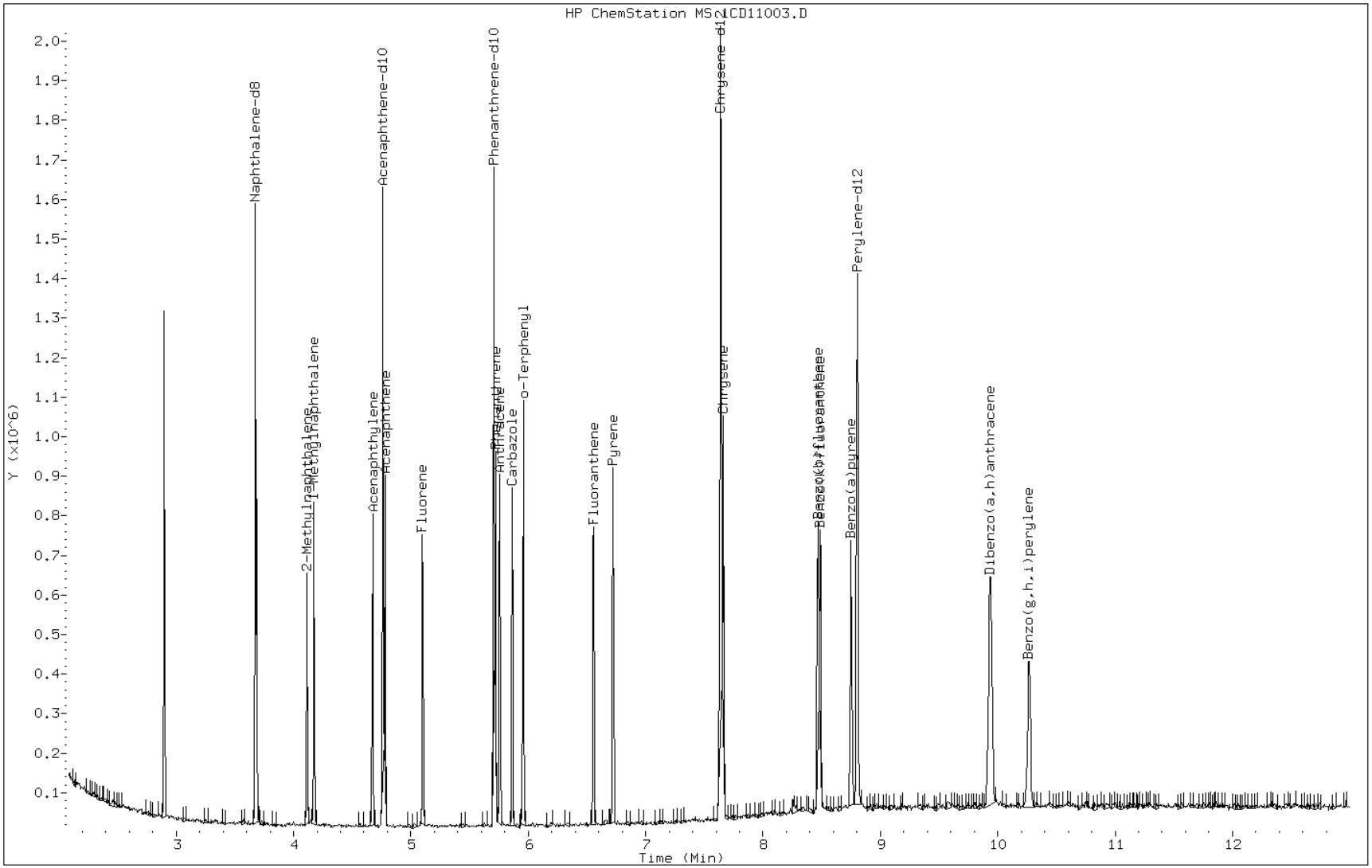
Date: 11-APR-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CD11003.D
Inj. Date and Time: 11-APR-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

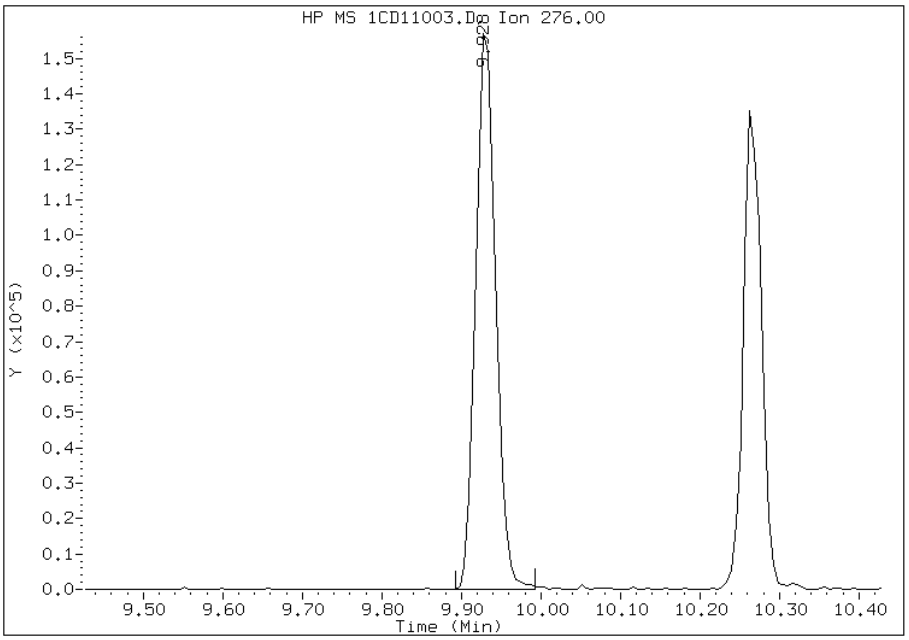
Processing Integration Results

RT: 9.93

Response: 271031

Amount: 23

Conc: 23



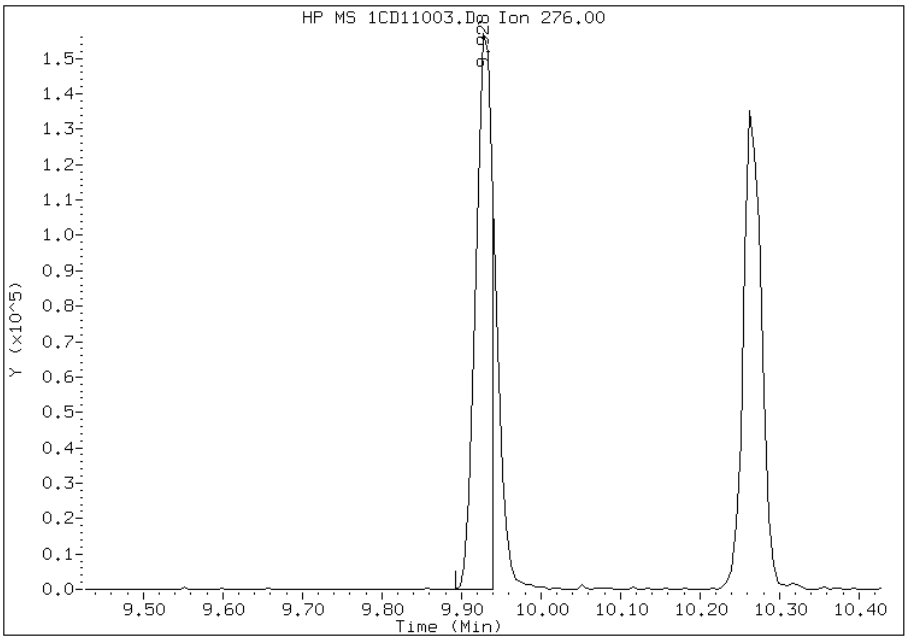
Manual Integration Results

RT: 9.93

Response: 223617

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 12:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11004.D
Lab Smp Id: IC-1531396
Inj Date : 11-APR-2013 12:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 11:56 Cal File: 1CD11003.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)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000)	247033	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	162858	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	320053	40.0000	(H)
$	14 o-Terphenyl	230	5.980	5.980	(1.045)	321	0.20000	0.7502(Q)
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	367836	40.0000	
*	23 Perylene-d12	264	8.827	8.827	(1.000)	403046	40.0000	
	2 Naphthalene	128	3.686	3.686	(1.003)	1285	0.20000	0.1924(Q)
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	558	0.20000	0.1342(Q)
	4 1-Methylnaphthalene	142	4.180	4.180	(1.138)	1050	0.20000	0.2461(Q)
	5 Acenaphthylene	152	4.680	4.680	(0.983)	1337	0.20000	0.1937
	7 Acenaphthene	154	4.786	4.786	(1.005)	800	0.20000	0.0720
	9 Fluorene	166	5.110	5.110	(1.073)	1213	0.20000	0.2291
	11 Phenanthrene	178	5.733	5.733	(1.002)	3451	0.20000	0.3336
	12 Anthracene	178	5.768	5.768	(1.008)	1673	0.20000	0.1800(H)
	13 Carbazole	167	5.880	5.880	(1.028)	2121	0.20000	0.2450
	15 Fluoranthene	202	6.562	6.562	(1.147)	1789	0.20000	0.1723
	16 Pyrene	202	6.733	6.733	(0.879)	2372	0.20000	0.2266
	17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	3412	0.20000	0.2031
	19 Chrysene	228	7.674	7.674	(1.002)	2159	0.20000	0.2098
	20 Benzo(b)fluoranthene	252	8.498	8.498	(0.963)	1499	0.20000	0.1472
	21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	2208	0.20000	0.1916
	22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	2188	0.20000	0.2079
	24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	2840	0.20000	0.2759
	25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	2717	0.20000	0.2659
	26 Benzo(g,h,i)perylene	276	10.286	10.286	(1.165)	1529	0.20000	0.1550(M)

QC Flag Legend

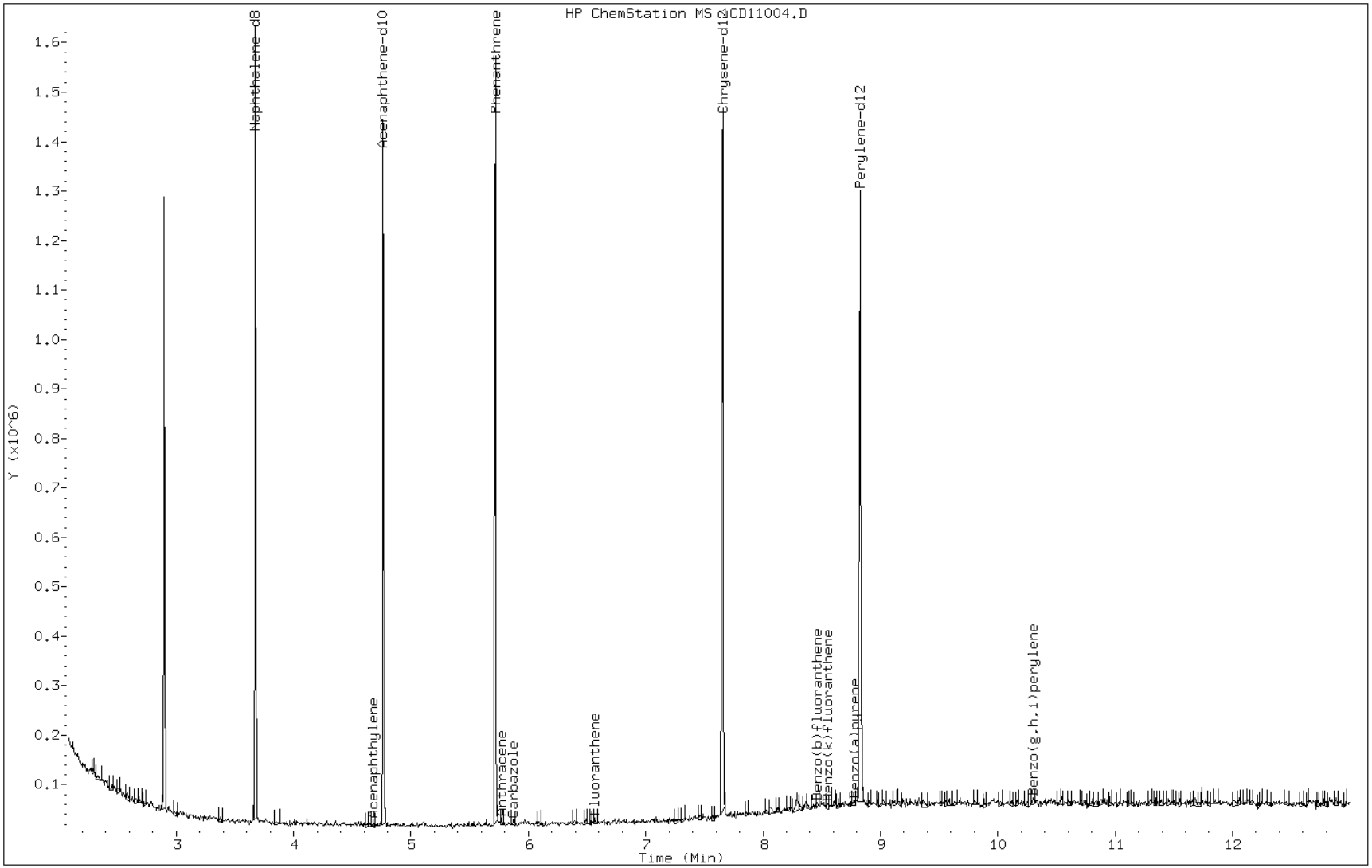
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11004.D

Date: 11-APR-2013 12:35

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1CD11004.D
Inj. Date and Time: 11-APR-2013 12:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

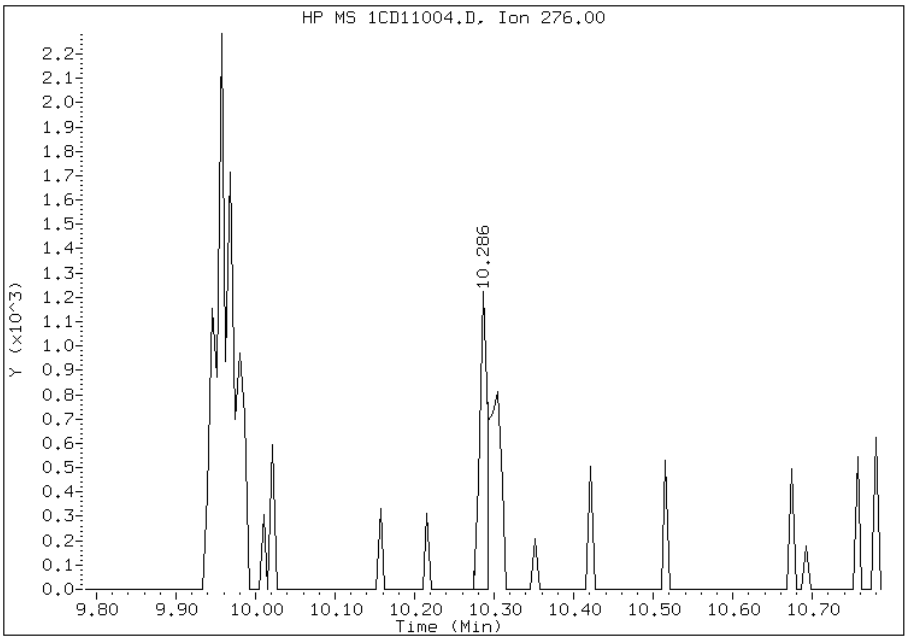
Processing Integration Results

RT: 10.29

Response: 832

Amount: 0

Conc: 0



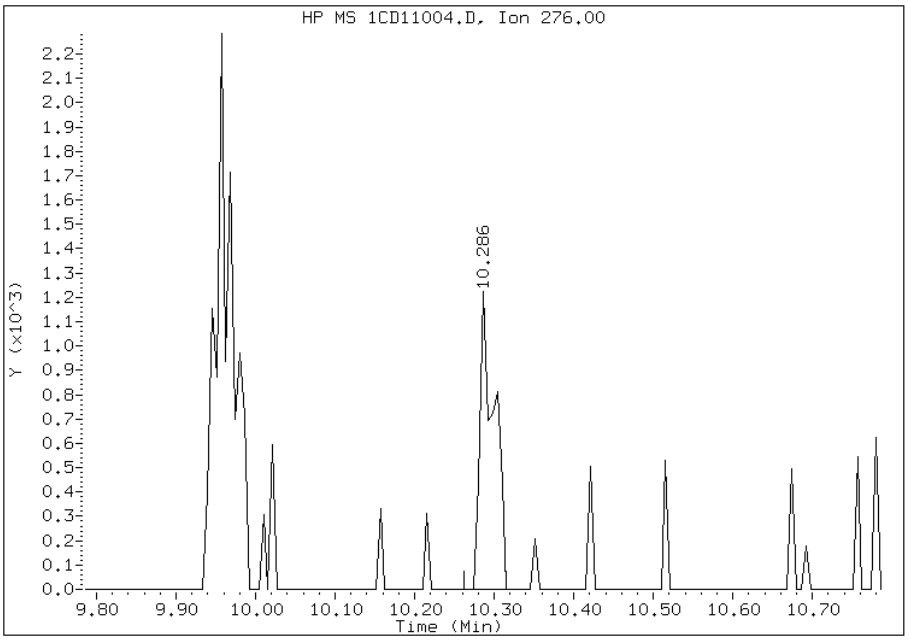
Manual Integration Results

RT: 10.29

Response: 1529

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11005.D
Lab Smp Id: IC-1531398
Inj Date : 11-APR-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:35 Cal File: 1CD11004.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	229800	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	153294	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	274841	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	5289	1.00000	1.8517(Q)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	348851	40.0000	
* 23 Perylene-d12	264	8.803	8.803	(1.000)	386589	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	6408	1.00000	1.0315(Q)
3 2-Methylnaphthalene	142	4.110	4.110	(1.118)	4547	1.00000	1.1760(Q)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	3598	1.00000	0.9067
5 Acenaphthylene	152	4.674	4.674	(0.981)	5176	1.00000	0.7968
7 Acenaphthene	154	4.780	4.780	(1.004)	3387	1.00000	0.7341
9 Fluorene	166	5.104	5.104	(1.072)	3703	1.00000	0.7433(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	7274	1.00000	0.8190(H)
12 Anthracene	178	5.757	5.757	(1.009)	8249	1.00000	1.0338
13 Carbazole	167	5.862	5.862	(1.028)	6222	1.00000	0.8372
15 Fluoranthene	202	6.556	6.556	(1.150)	9565	1.00000	1.0728
16 Pyrene	202	6.721	6.721	(0.880)	8697	1.00000	0.8763
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	12549	1.00000	1.1507
19 Chrysene	228	7.656	7.656	(1.002)	8490	1.00000	0.8699
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	9159	1.00000	0.9380(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	10000	1.00000	0.9050(H)
22 Benzo(a)pyrene	252	8.750	8.750	(0.994)	8912	1.00000	0.8829(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.127)	8288	1.00000	0.8394(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.129)	8648	1.00000	0.8825(MH)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	10403	1.00000	1.0996

QC Flag Legend

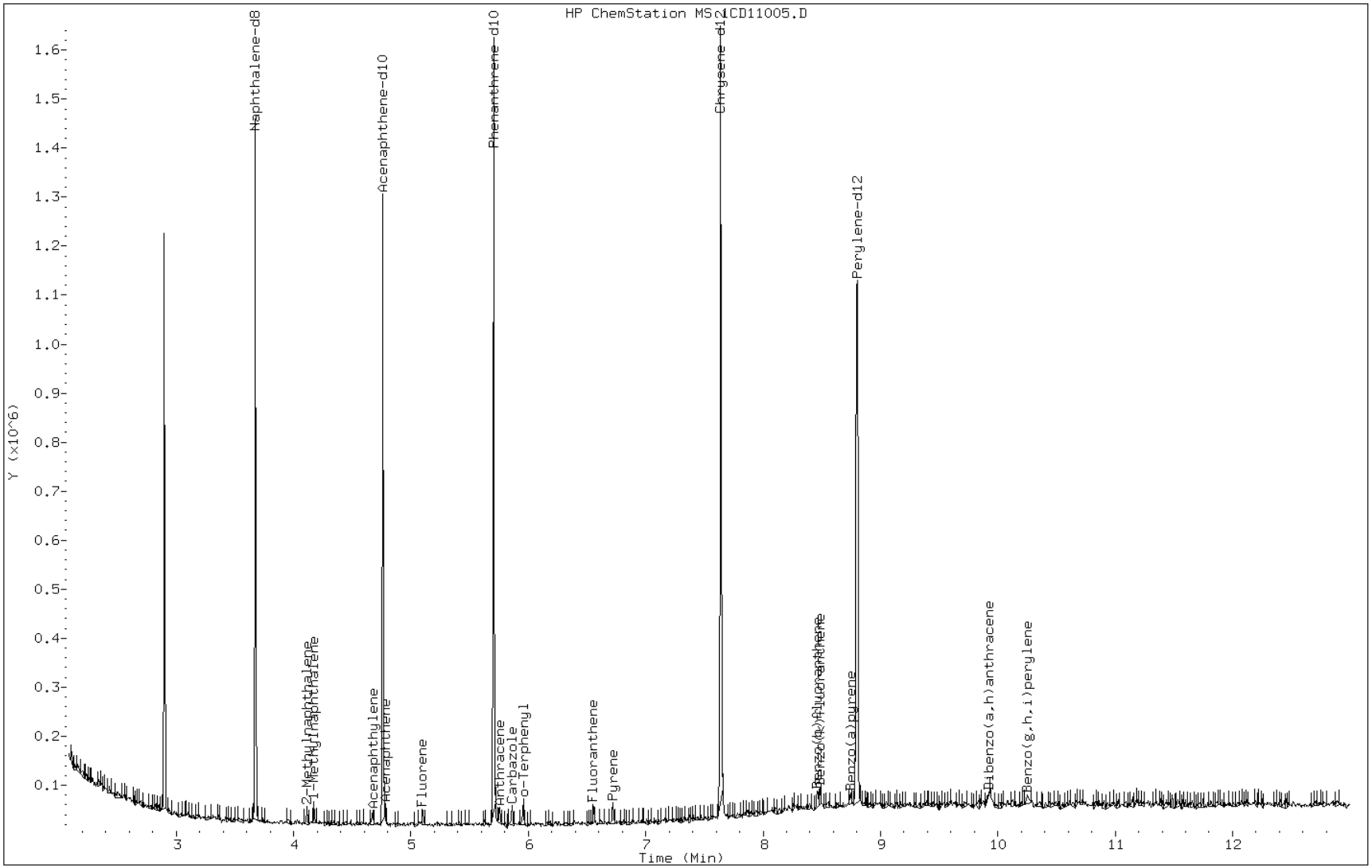
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11005.D

Date: 11-APR-2013 12:53

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

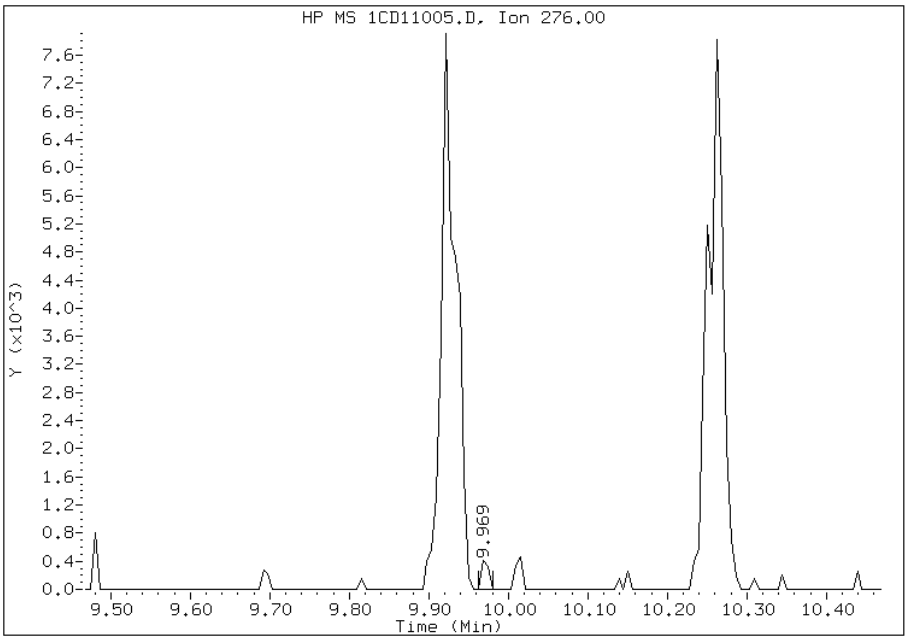
Processing Integration Results

RT: 9.97

Response: 260

Amount: 0

Conc: 0



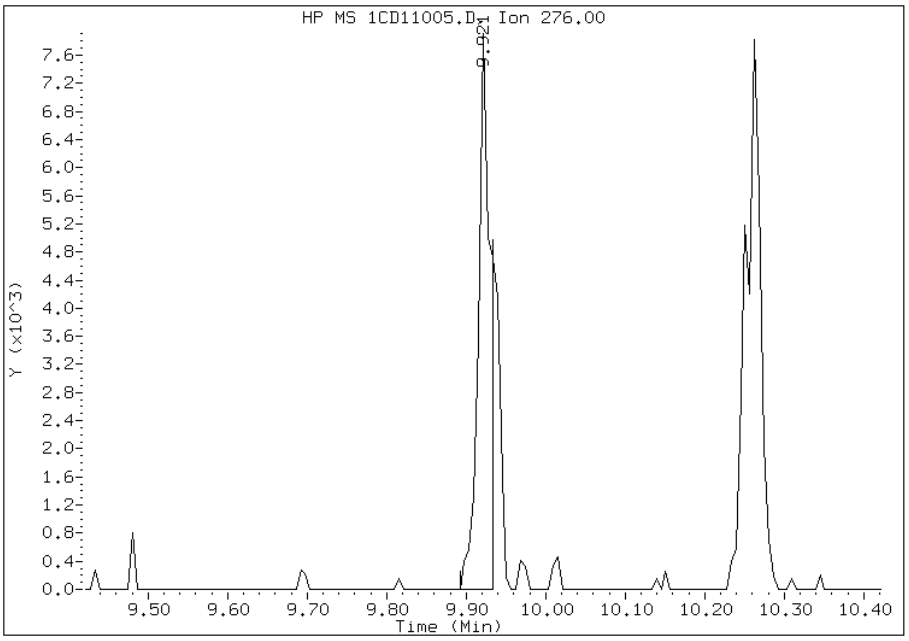
Manual Integration Results

RT: 9.92

Response: 8288

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

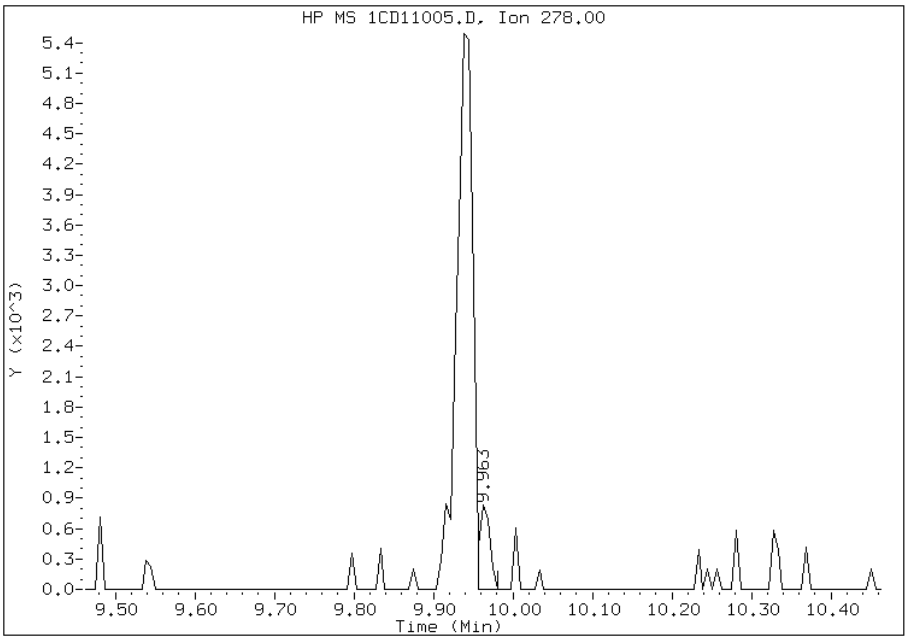
Processing Integration Results

RT: 9.96

Response: 764

Amount: 0

Conc: 0



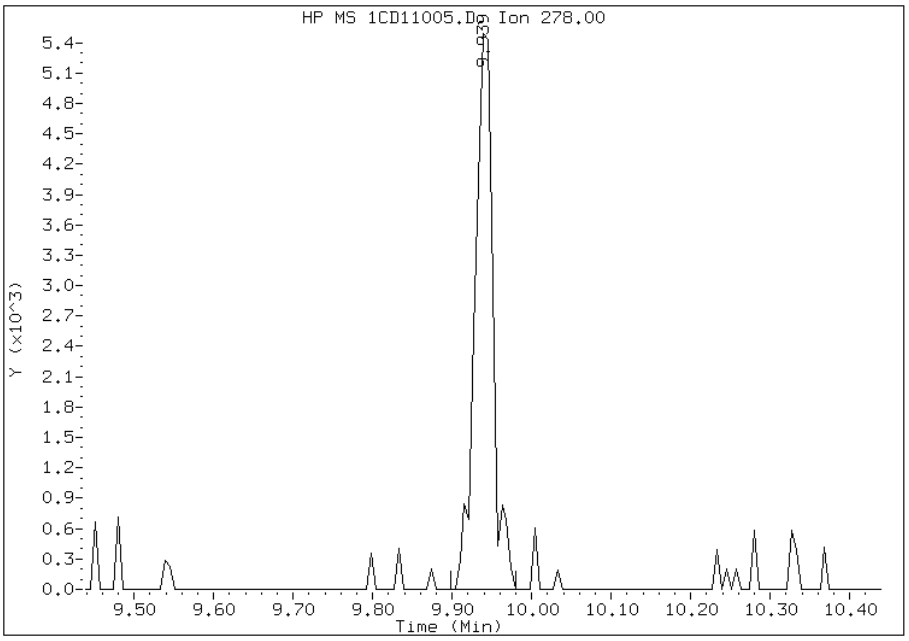
Manual Integration Results

RT: 9.94

Response: 8648

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11006.D
Lab Smp Id: IC-1531399
Inj Date : 11-APR-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:53 Cal File: 1CD11005.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

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.675	3.675	(1.000)	236973	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	165788	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	315427	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	25692	5.00000	5.6083
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	386829	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	407786	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003)	33340	5.00000	5.2046
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	18585	5.00000	4.6612
	4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	21228	5.00000	5.1880
	5 Acenaphthylene	152	4.674	4.674	(0.981)	39114	5.00000	5.5677
	7 Acenaphthene	154	4.780	4.780	(1.004)	21682	5.00000	4.9222
	9 Fluorene	166	5.098	5.098	(1.070)	27348	5.00000	5.0761(Q)
	11 Phenanthrene	178	5.721	5.721	(1.003)	47149	5.00000	4.6257(H)
	12 Anthracene	178	5.757	5.757	(1.009)	45907	5.00000	5.0132
	13 Carbazole	167	5.863	5.863	(1.028)	44777	5.00000	5.2502
	15 Fluoranthene	202	6.551	6.551	(1.148)	50052	5.00000	4.8914
	16 Pyrene	202	6.721	6.721	(0.880)	55349	5.00000	5.0294
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	55643	5.00000	4.9797
	19 Chrysene	228	7.657	7.657	(1.002)	57430	5.00000	5.3071
	20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	56470	5.00000	5.4827(H)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	58242	5.00000	4.9973(H)
	22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	53152	5.00000	4.9924(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.128)	50225	5.00000	4.8225(MH)
	25 Dibenzo(a,h)anthracene	278	9.927	9.927	(1.128)	46577	5.00000	4.5061(H)
	26 Benzo(g,h,i)perylene	276	10.251	10.251	(1.165)	50451	5.00000	5.0556(H)

QC Flag Legend

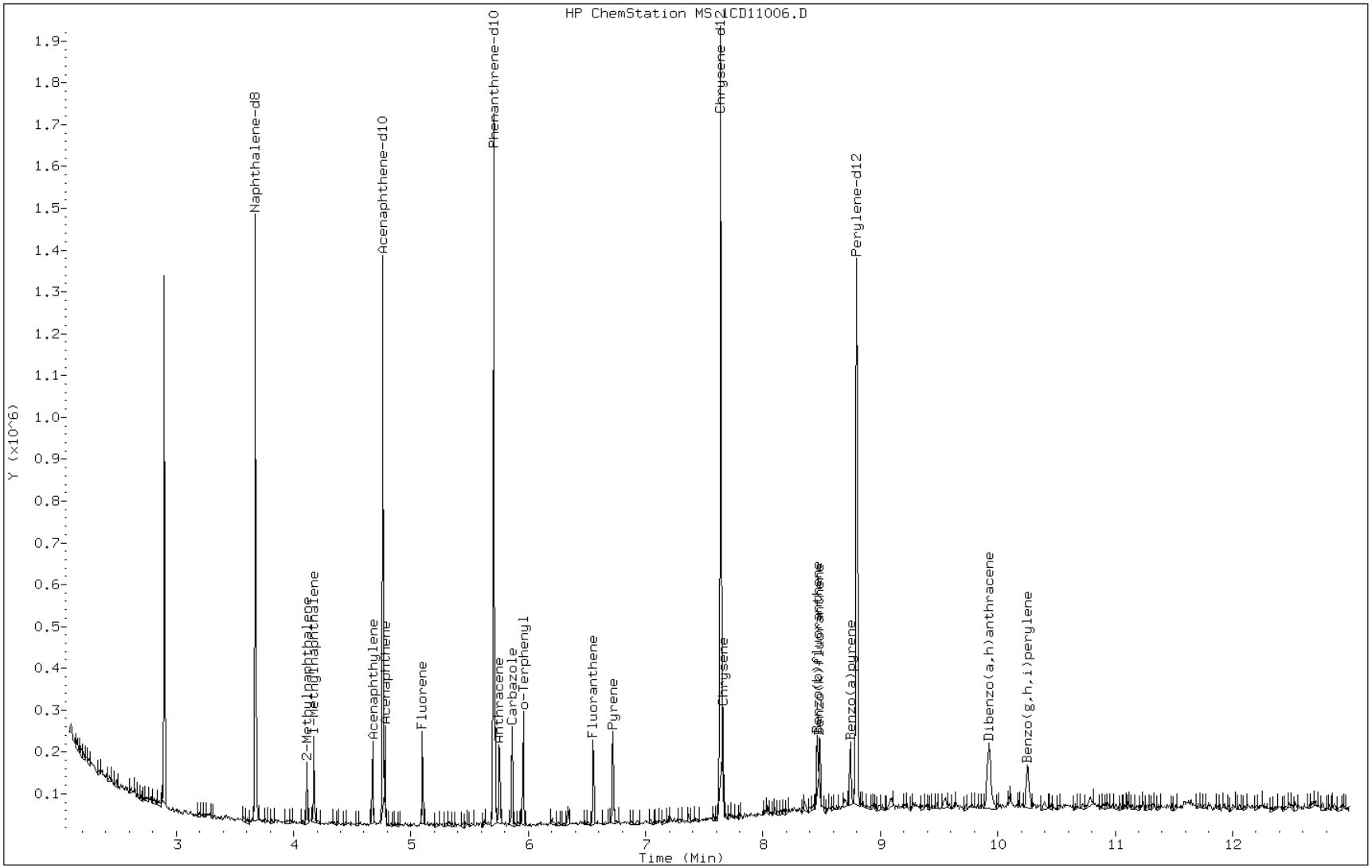
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11006.D

Date: 11-APR-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1CD11006.D
Inj. Date and Time: 11-APR-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

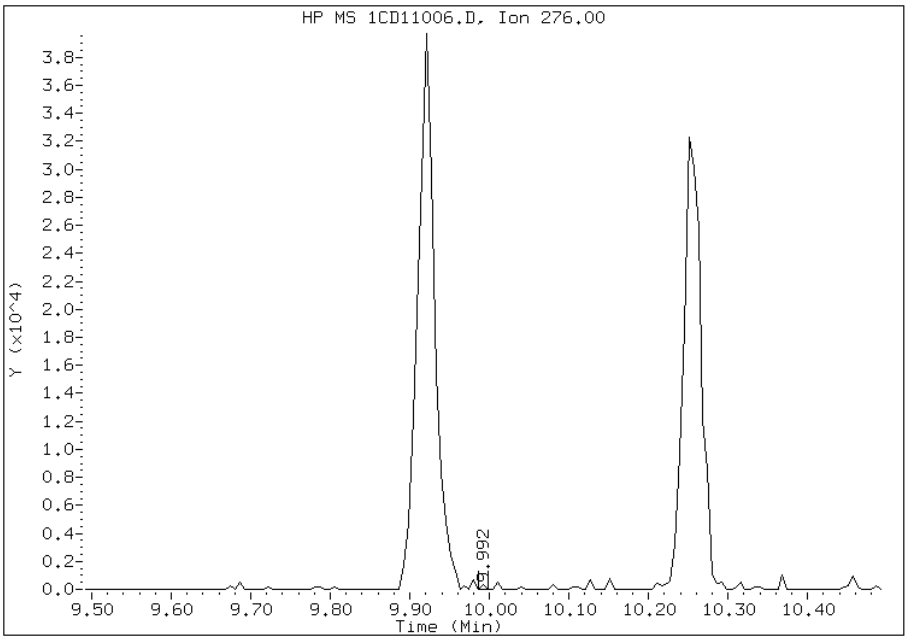
Processing Integration Results

RT: 9.99

Response: 108

Amount: 0

Conc: 0



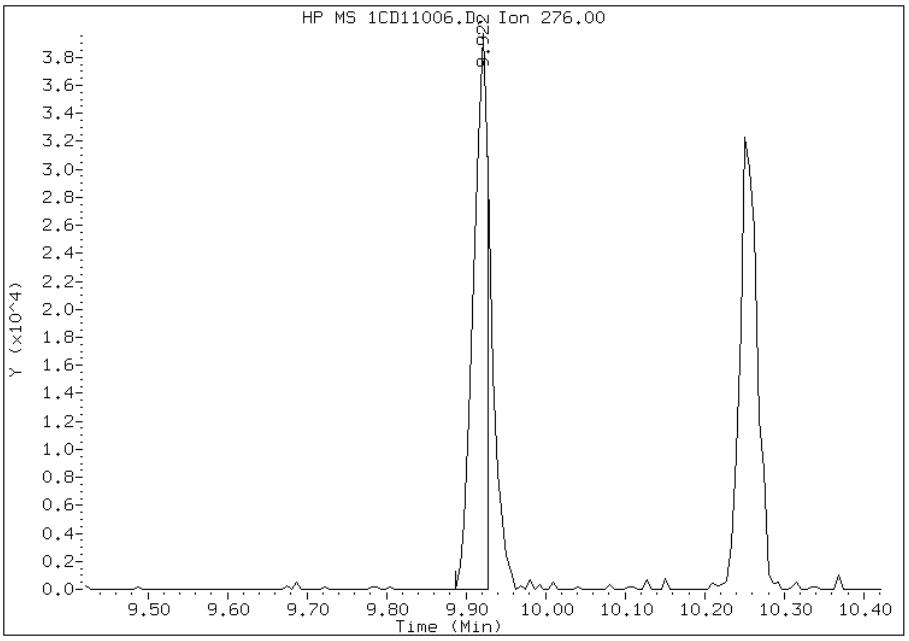
Manual Integration Results

RT: 9.92

Response: 50225

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:35
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11007.D
Lab Smp Id: IC-1531400
Inj Date : 11-APR-2013 13:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:11 Cal File: 1CD11006.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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	246668	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	161880	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	295862	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	44711	10.0000	9.8155
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	371008	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	373300	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	66803	10.0000	10.0187
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	42945	10.0000	10.3474
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	38170	10.0000	8.9618
5 Acenaphthylene	152	4.674	4.674	(0.981)	69442	10.0000	10.1235
7 Acenaphthene	154	4.780	4.780	(1.004)	45560	10.0000	10.7277
9 Fluorene	166	5.098	5.098	(1.070)	56195	10.0000	10.6823
11 Phenanthrene	178	5.721	5.721	(1.003)	85752	10.0000	8.9693(H)
12 Anthracene	178	5.757	5.757	(1.009)	86681	10.0000	10.0918
13 Carbazole	167	5.863	5.863	(1.028)	78836	10.0000	9.8550
15 Fluoranthene	202	6.551	6.551	(1.148)	98679	10.0000	10.2813
16 Pyrene	202	6.721	6.721	(0.880)	104590	10.0000	9.9092
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	101817	10.0000	9.6151
19 Chrysene	228	7.657	7.657	(1.002)	99776	10.0000	9.6136
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	93677	10.0000	9.9354(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	107089	10.0000	10.0374(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	98767	10.0000	10.1338(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	83577	10.0000	8.7663(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	87325	10.0000	9.2288(H)
26 Benzo(g,h,i)perylene	276	10.256	10.256	(1.166)	96936	10.0000	10.6113(H)

QC Flag Legend

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

Data File: 1CD11007.D

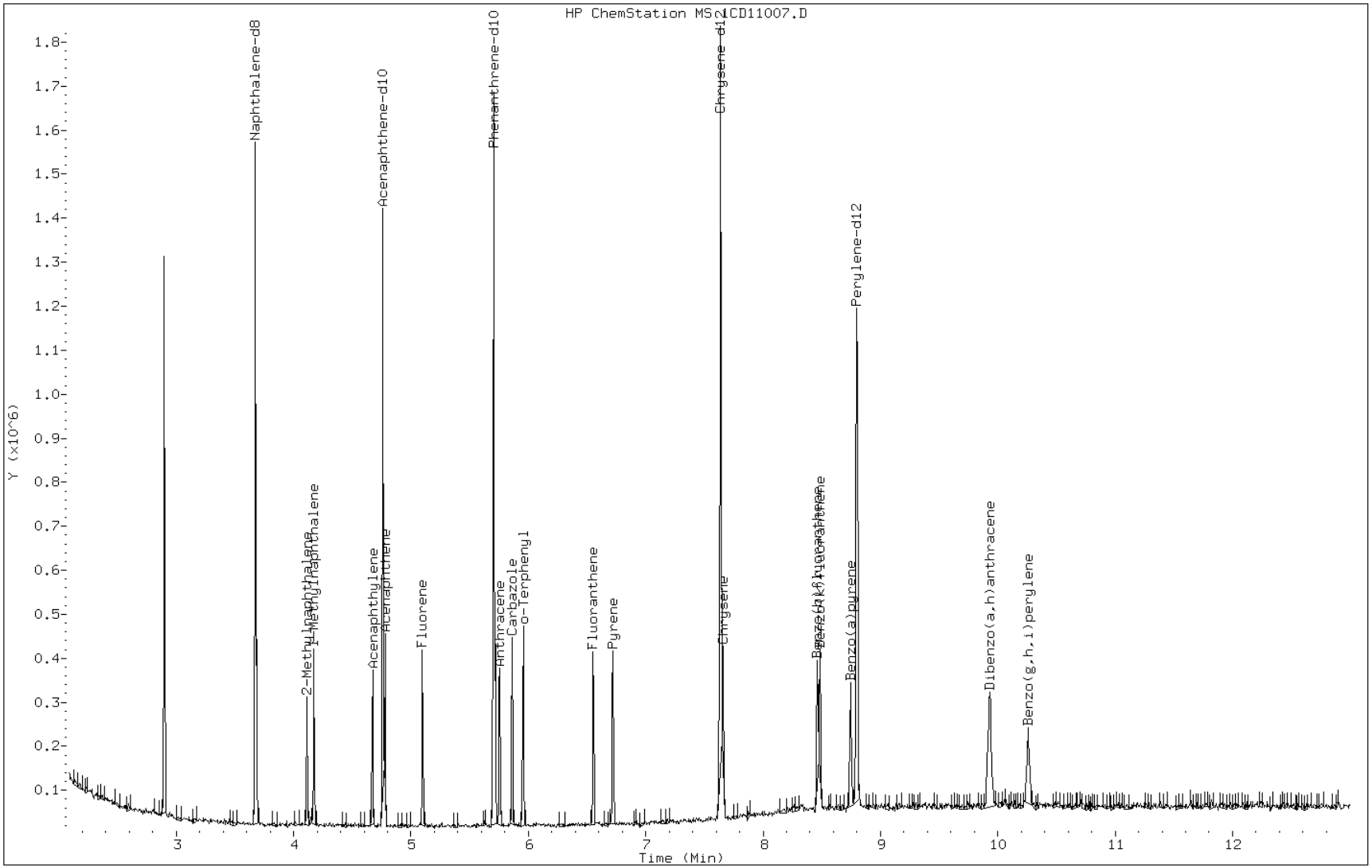
Date: 11-APR-2013 13:30

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1CD11007.D
Inj. Date and Time: 11-APR-2013 13:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

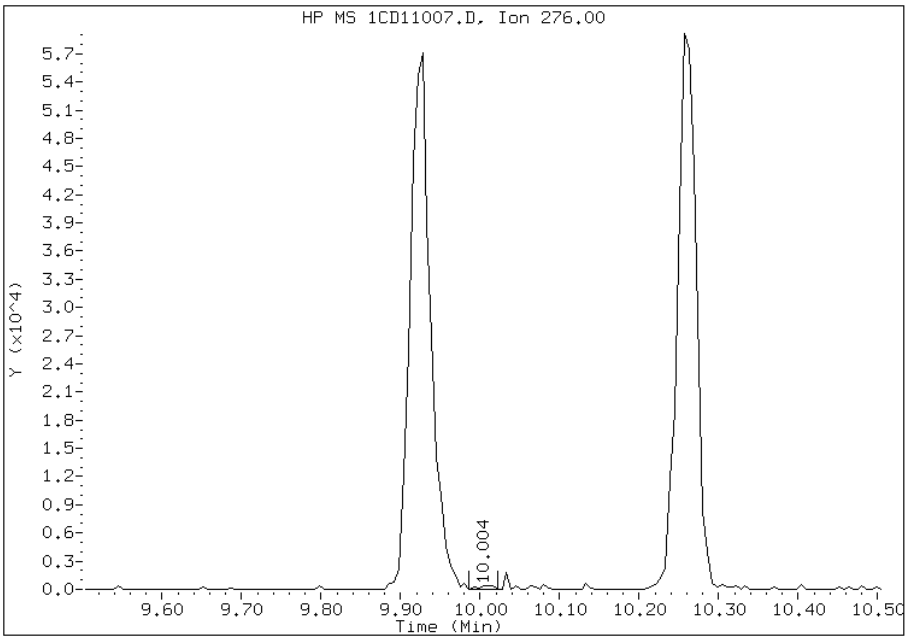
Processing Integration Results

RT: 10.00

Response: 600

Amount: 0

Conc: 0



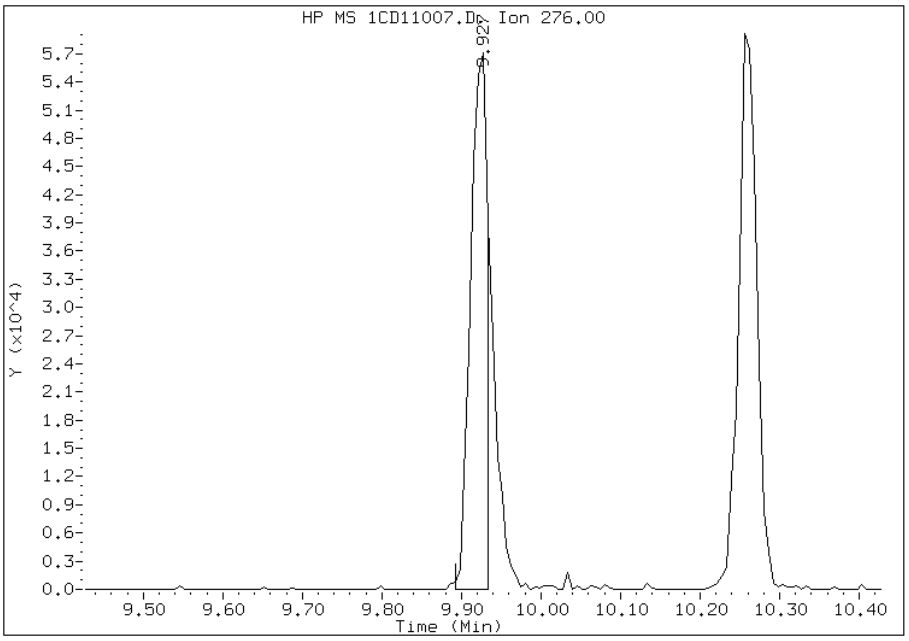
Manual Integration Results

RT: 9.93

Response: 83577

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11008.D
Lab Smp Id: IC-1531402
Inj Date : 11-APR-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:30 Cal File: 1CD11007.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	219235	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	151711	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	292639	40.0000	
$ 14 o-Terphenyl	230	5.956	5.956	(1.044)	130217	30.0000	27.5608
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	355096	40.0000	
* 23 Perylene-d12	264	8.797	8.797	(1.000)	372168	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	178326	30.0000	30.0907
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	117387	30.0000	31.8232
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	109784	30.0000	29.0014
5 Acenaphthylene	152	4.674	4.674	(0.981)	212811	30.0000	33.1039
7 Acenaphthene	154	4.780	4.780	(1.004)	121274	30.0000	30.6855
9 Fluorene	166	5.098	5.098	(1.070)	157410	30.0000	31.9283
11 Phenanthrene	178	5.721	5.721	(1.003)	259782	30.0000	27.4715(H)
12 Anthracene	178	5.756	5.756	(1.009)	245548	30.0000	28.9028
13 Carbazole	167	5.862	5.862	(1.028)	233698	30.0000	29.5356
15 Fluoranthene	202	6.556	6.556	(1.150)	279401	30.0000	29.4314
16 Pyrene	202	6.721	6.721	(0.880)	307735	30.0000	30.4624
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	305726	30.0000	30.4344
19 Chrysene	228	7.662	7.662	(1.003)	310162	30.0000	31.2239
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	299492	30.0000	31.8608(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	333825	30.0000	31.3844(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	299708	30.0000	30.8447(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	260884	30.0000	27.4473(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	274497	30.0000	29.0980(H)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	275805	30.0000	30.2834(H)

QC Flag Legend

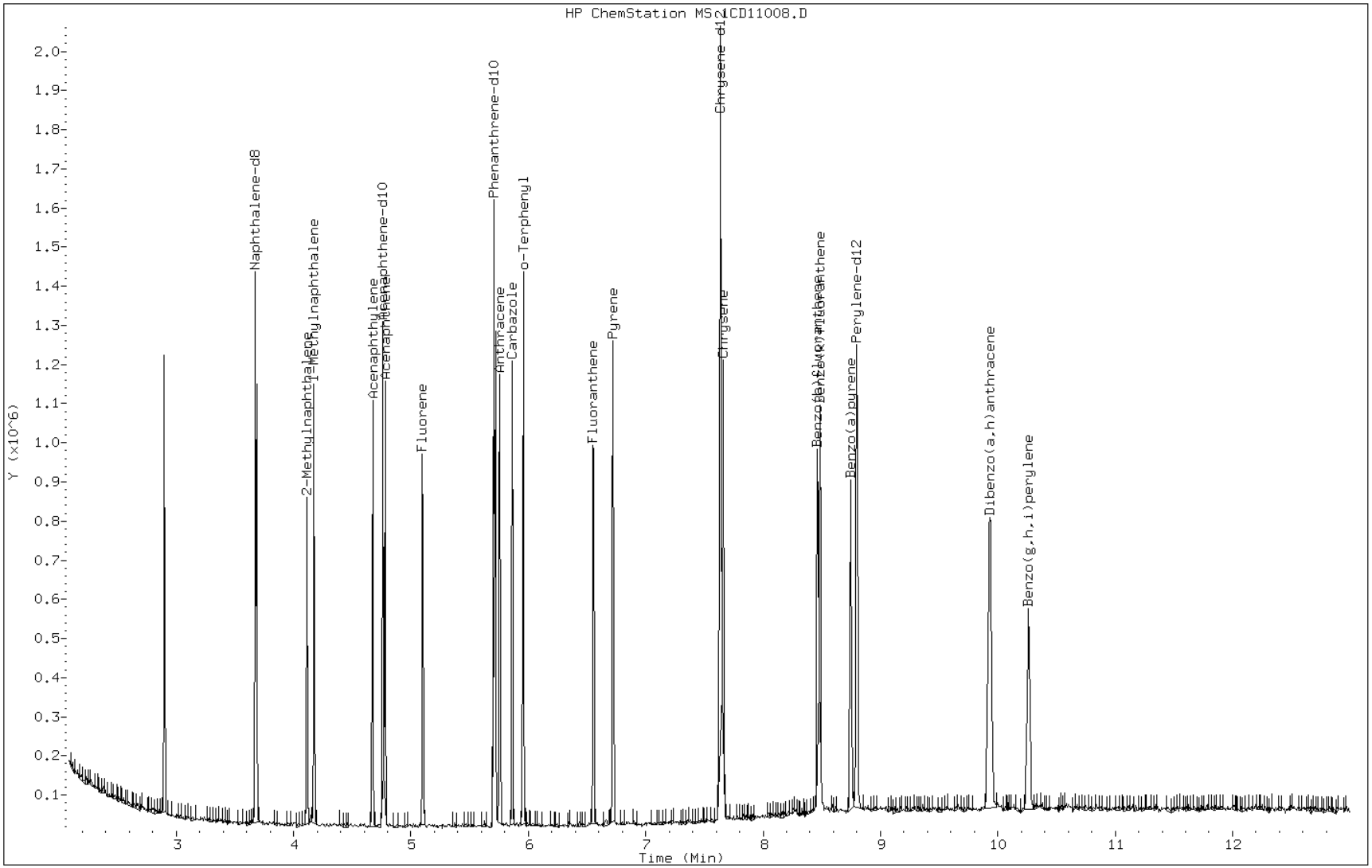
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11008.D

Date: 11-APR-2013 13:48

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1CD11008.D
Inj. Date and Time: 11-APR-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

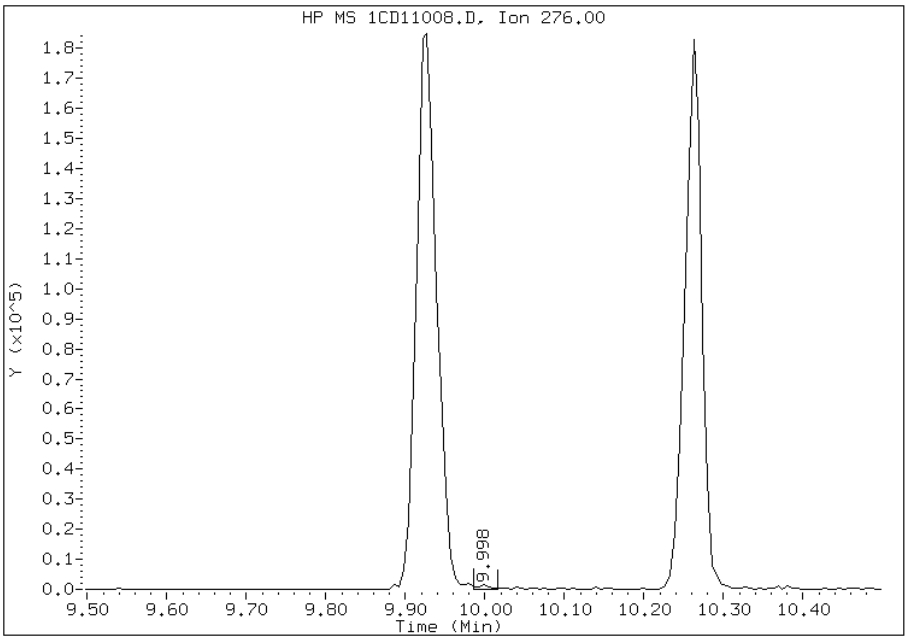
Processing Integration Results

RT: 10.00

Response: 1705

Amount: 0

Conc: 0



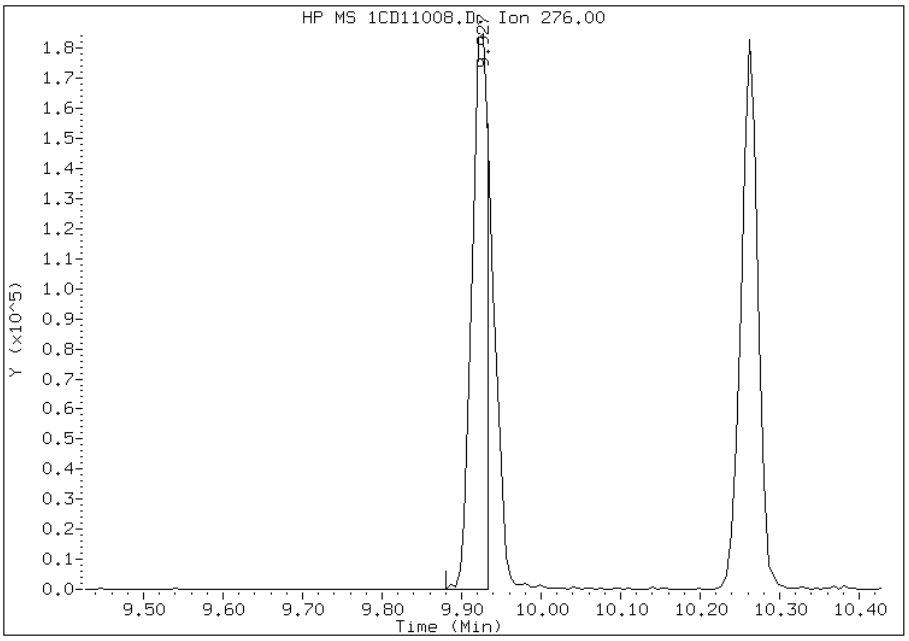
Manual Integration Results

RT: 9.93

Response: 260884

Amount: 27

Conc: 27



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11009.D
Lab Smp Id: IC-1531403
Inj Date : 11-APR-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:48 Cal File: 1CD11008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	245399	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	178913	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	327530	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	276100	50.0000	51.5953(A)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	437594	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	425092	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	318955	50.0000	48.0823
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	221322	50.0000	53.6026(A)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	201768	50.0000	47.6178
5 Acenaphthylene	152	4.674	4.674	(0.981)	370532	50.0000	48.8750
7 Acenaphthene	154	4.780	4.780	(1.004)	231163	50.0000	49.6697
9 Fluorene	166	5.104	5.104	(1.072)	287857	50.0000	49.5103
11 Phenanthrene	178	5.721	5.721	(1.003)	472306	50.0000	44.6250(H)
12 Anthracene	178	5.757	5.757	(1.009)	498469	50.0000	52.4232(A)
13 Carbazole	167	5.863	5.863	(1.028)	443362	50.0000	50.0646(A)
15 Fluoranthene	202	6.557	6.557	(1.150)	556889	50.0000	52.4123(A)
16 Pyrene	202	6.721	6.721	(0.880)	619923	50.0000	49.7966
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	615507	50.0000	49.8010
19 Chrysene	228	7.662	7.662	(1.003)	632502	50.0000	51.6696(A)
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.963)	576085	50.0000	53.6554(AH)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	711099	50.0000	58.5305(AH)
22 Benzo(a)pyrene	252	8.751	8.751	(0.995)	612644	50.0000	55.2010(AH)
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.933	(1.129)	557635	50.0000	51.3640(AMH)
25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	545458	50.0000	50.6224(AH)
26 Benzo(g,h,i)perylene	276	10.268	10.268	(1.167)	540151	50.0000	51.9247(AH)

QC Flag Legend

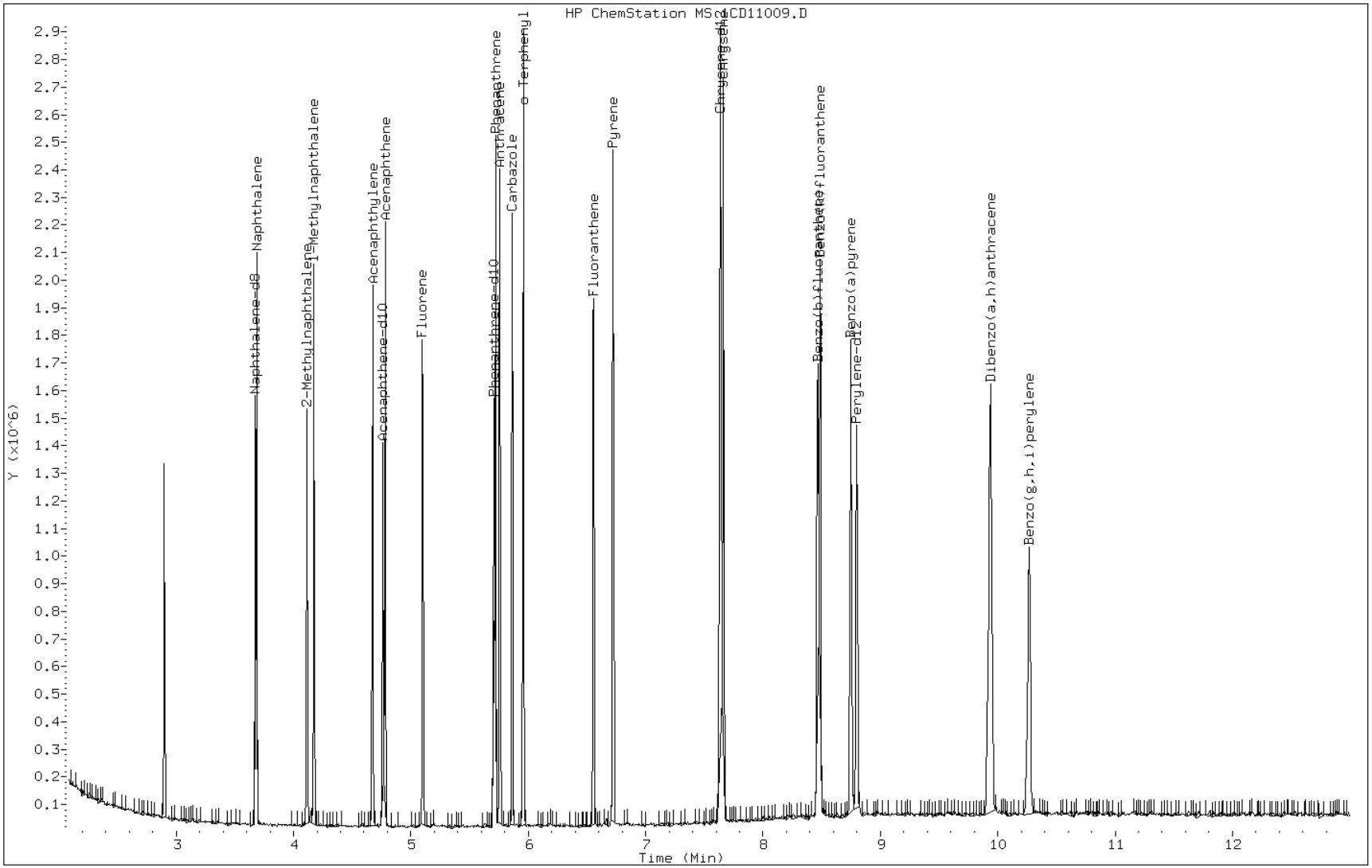
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11009.D

Date: 11-APR-2013 14:06

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1CD11009.D
Inj. Date and Time: 11-APR-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

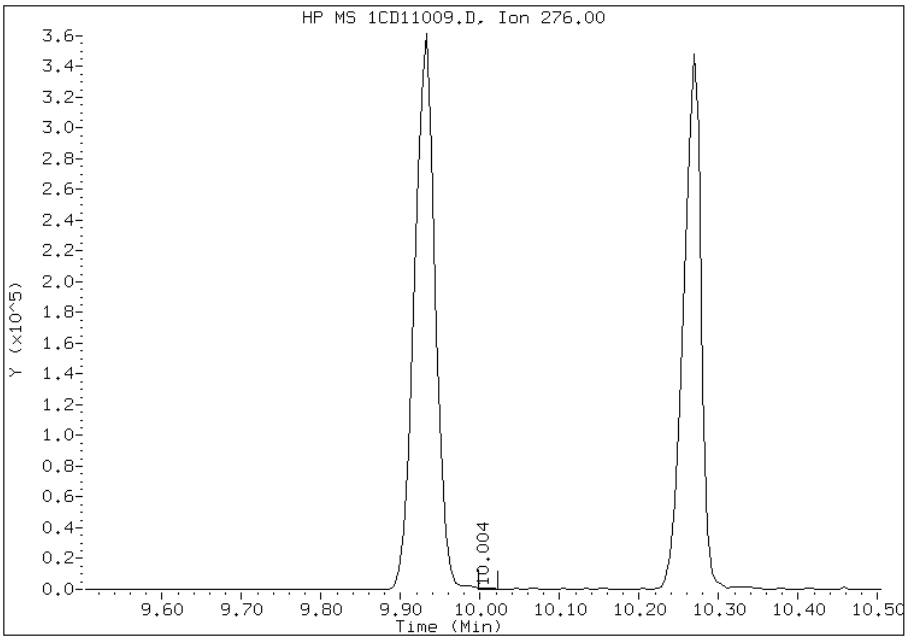
Processing Integration Results

RT: 10.00

Response: 955

Amount: 0

Conc: 0



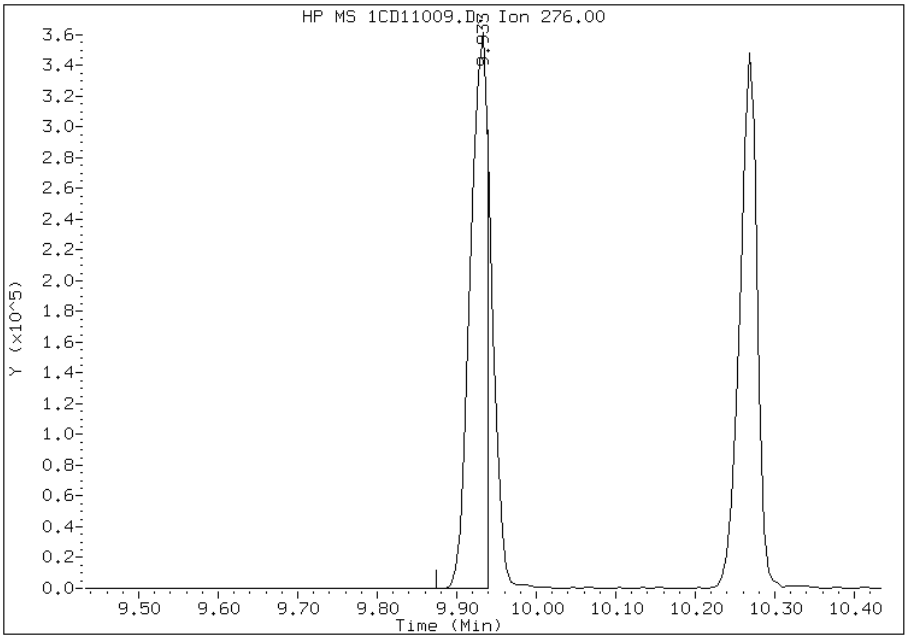
Manual Integration Results

RT: 9.93

Response: 557635

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:37
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89421-1 Analy Batch No.: 136792

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136792/9	1CD24008.D
Level 2	IC 660-136792/10	1CD24009.D
Level 3	IC 660-136792/11	1CD24010.D
Level 4	IC 660-136792/12	1CD24011.D
Level 5	ICIS 660-136792/8	1CD24007.D
Level 6	IC 660-136792/13	1CD24012.D
Level 7	IC 660-136792/14	1CD24013.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	1.4885 1.0673	0.8030 0.9945	1.2243	1.0717	1.0350	Qua	0.0016	0.8772	0.0995		0.0000				0.9993		0.9900
2-Methylnaphthalene	0.7464 0.6579	0.4218 0.6085	0.6274	0.6521	0.7379	Qua	0.0162	1.1826	0.5751		0.0000				0.9983		0.9900
1-Methylnaphthalene	0.9319 0.6193	0.7463 0.5744	0.6932	0.6597	0.6871	Qua	0.0036	1.3017	0.6057		0.0000				0.9993		0.9900
Acenaphthylene	3.4304 2.0647	1.9170 1.7629	2.1326	1.8192	1.8525	Qua	0.0112	0.4383	0.0514		0.0000				0.9943		0.9900
Acenaphthene	0.4262 1.2591	1.1075 1.1214	1.1969	1.0197	1.1578	Lin	0.0010	1.1591			0.0000				0.9946		0.9900
Fluorene	0.7134 1.4381	0.8846 1.3393	1.4394	1.2091	1.4637	Lin	0	1.3741			0.0000				0.9965		0.9900
Phenanthrene	0.7358 1.1729	1.0796 1.1379	1.2093	1.1777	1.1532	Ave		1.0952			0.0000	14.9		15.0			
Anthracene	1.6568 1.2549	1.0932 1.1749	1.2756	0.9843	1.2050	Lin	0.0035	1.1989			0.0000				0.9969		0.9900
Carbazole	1.1378 1.1753	0.8782 1.1261	1.1756	1.0992	1.1138	Ave		1.1008			0.0000	9.3		15.0			
Fluoranthene	0.5689 1.3260	1.4602 1.3145	1.3271	1.2451	1.3854	Lin	-0.001	1.3222			0.0000				0.9993		0.9900
Pyrene	1.1153 1.1382	1.3399 1.2411	1.2320	1.0694	1.1336	Ave		1.1813			0.0000	7.9		15.0			
Benzo[a]anthracene	2.8780 1.1234	1.0920 1.2524	0.9747	1.0528	1.0869	Qua	-0.003	1.0003	-0.128		0.0000				0.9999		0.9900
Chrysene	1.2239 1.1652	1.0410 1.2164	1.0997	1.1331	1.1162	Ave		1.1422			0.0000	5.7		15.0			
Benzo[b]fluoranthene	1.2869 1.2910	1.1792 1.0614	0.8207	1.0261	1.0787	Ave		1.1063			0.0000	14.9		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.: 680-89421-1 Analy Batch No.: 136792

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

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	0.9309 1.0619	1.0234 1.2344	1.0057	1.0567	1.2219	Ave		1.0764			0.0000	10.4		15.0			
Benzo[a]pyrene	0.4167 1.1299	0.9130 1.0738	0.8808	1.0351	1.1266	Lin	0.0055	1.0979			0.0000				0.9984		0.9900
Indeno[1,2,3-cd]pyrene	0.6405 1.1359	1.0272 1.0893	0.7464	1.0313	1.0336	Lin	0.0155	1.1121			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7370 1.0791	0.9794 1.0428	0.9325	0.9527	1.0661	Ave		0.9699			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.8267 1.1488	0.9925 1.0479	1.0131	1.0047	1.0362	Ave		1.0100			0.0000	9.5		15.0			
o-Terphenyl	0.5768 0.5541	0.4988 0.6222	0.6004	0.5917	0.6213	Ave		0.5808			0.0000	7.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89421-1 Analy Batch No.: 136792

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136792/9	1CD24008.D
Level 2	IC 660-136792/10	1CD24009.D
Level 3	IC 660-136792/11	1CD24010.D
Level 4	IC 660-136792/12	1CD24011.D
Level 5	ICIS 660-136792/8	1CD24007.D
Level 6	IC 660-136792/13	1CD24012.D
Level 7	IC 660-136792/14	1CD24013.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	1035 103423	2549 191564	20341	36506	65995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	519 63749	1339 117199	10424	22212	47054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	648 60013	2369 110635	11516	22472	43811	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1481 116035	3801 202374	20507	36679	73827	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	184 70759	2196 128735	11510	20558	46141	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Lin	308 80821	1754 153739	13841	24378	58332	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	560 124603	3569 236464	20935	44728	90821	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Lin	1261 133306	3614 244157	22082	37381	94896	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	866 124856	2903 234016	20351	41744	87713	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Lin	433 140868	4827 273177	22974	47287	109105	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	1068 148768	4995 302673	28020	49927	122882	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Qua	2756 146829	4071 305445	22168	49156	117822	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1172 152301	3881 296655	25011	52901	121002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1334 179789	4851 310324	22111	53250	121135	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	965 147881	4210 360897	27095	54841	137216	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.: 680-89421-1 Analy Batch No.: 136792

SDG No.: 68089421-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

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	432 157348	3756 313949	23731	53716	126513	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	664 158186	4226 318480	20110	53522	116072	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	764 150284	4029 304881	25125	49442	119713	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	857 159984	4083 306375	27296	52142	116355	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	439 58861	1649 129301	10394	22471	48930	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\BSMC5973.i\1C042413.b\1CD24007.D
Lab Smp Id: ICIS-1531401
Inj Date : 24-APR-2013 13:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	127529	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	79707	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	157508	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	48930	20.0000	20.6251
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	216809	40.0000	
* 23 Perylene-d12	264	8.739	8.739	(1.000)	224587	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	65995	20.0000	18.8561
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	47054	20.0000	23.0182
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	43811	20.0000	19.5833
5 Acenaphthylene	152	4.633	4.633	(0.981)	73827	20.0000	17.3135
7 Acenaphthene	154	4.739	4.739	(1.004)	46141	20.0000	22.2383
9 Fluorene	166	5.063	5.063	(1.072)	58332	20.0000	24.1426
11 Phenanthrene	178	5.674	5.674	(1.002)	90821	20.0000	19.6674
12 Anthracene	178	5.710	5.710	(1.008)	94896	20.0000	19.5145
13 Carbazole	167	5.821	5.821	(1.028)	87713	20.0000	20.2346
15 Fluoranthene	202	6.504	6.504	(1.149)	109105	20.0000	22.4815
16 Pyrene	202	6.674	6.674	(0.879)	122882	20.0000	19.1909
17 Benzo(a)anthracene	228	7.580	7.580	(0.998)	117822	20.0000	18.0612
19 Chrysene	228	7.609	7.609	(1.002)	121002	20.0000	19.5445
20 Benzo(b)fluoranthene	252	8.415	8.415	(0.963)	121135	20.0000	19.5020
21 Benzo(k)fluoranthene	252	8.433	8.433	(0.965)	137216	20.0000	22.7040
22 Benzo(a)pyrene	252	8.692	8.692	(0.995)	126513	20.0000	23.9858
24 Indeno(1,2,3-cd)pyrene	276	9.839	9.839	(1.126)	116072	20.0000	19.2071(M)
25 Dibenzo(a,h)anthracene	278	9.856	9.856	(1.128)	119713	20.0000	20.3903
26 Benzo(g,h,i)perylene	276	10.168	10.168	(1.164)	116355	20.0000	20.5184

QC Flag Legend

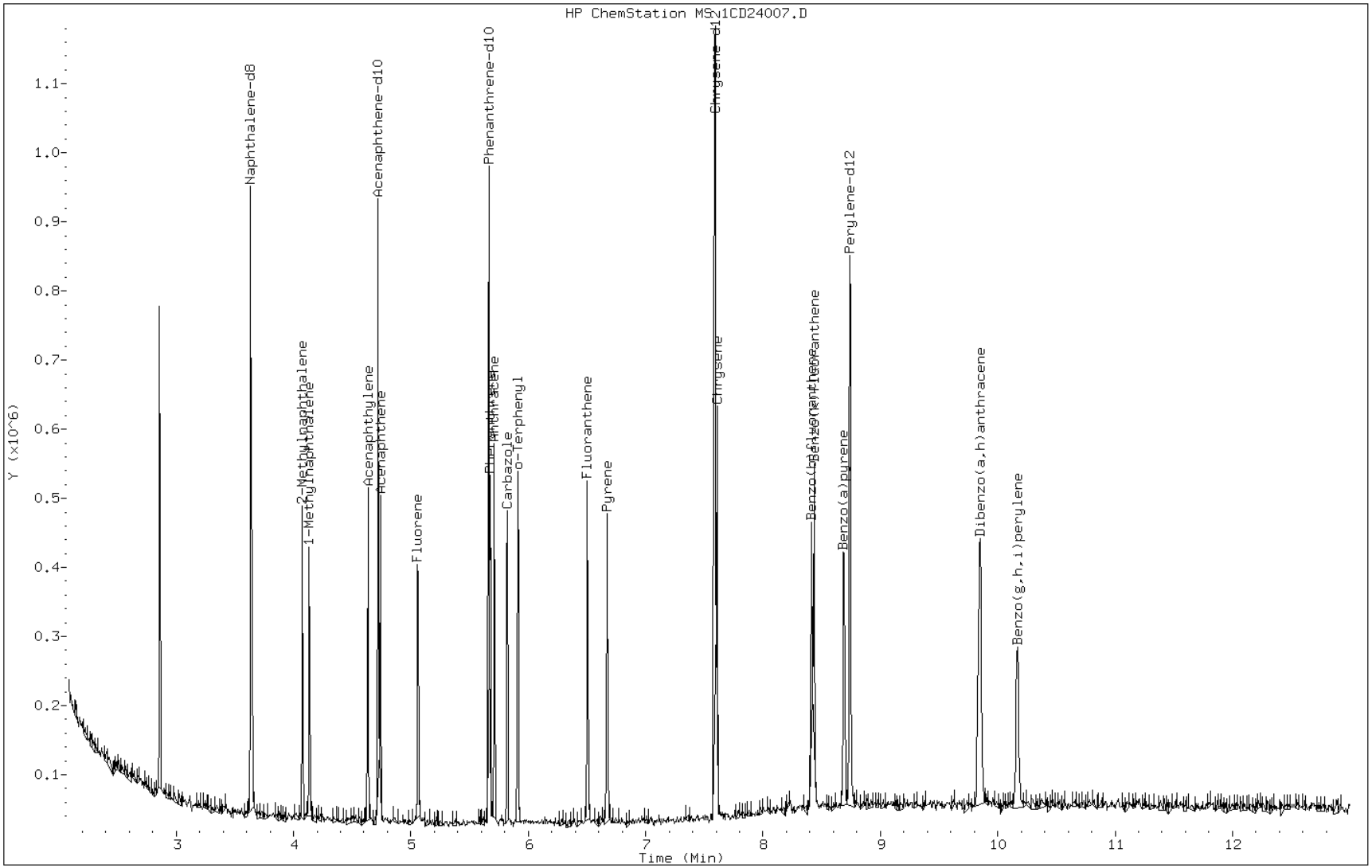
M - Compound response manually integrated.

Data File: 1CD24007.D

Date: 24-APR-2013 13:57

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD24007.D
Inj. Date and Time: 24-APR-2013 13:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

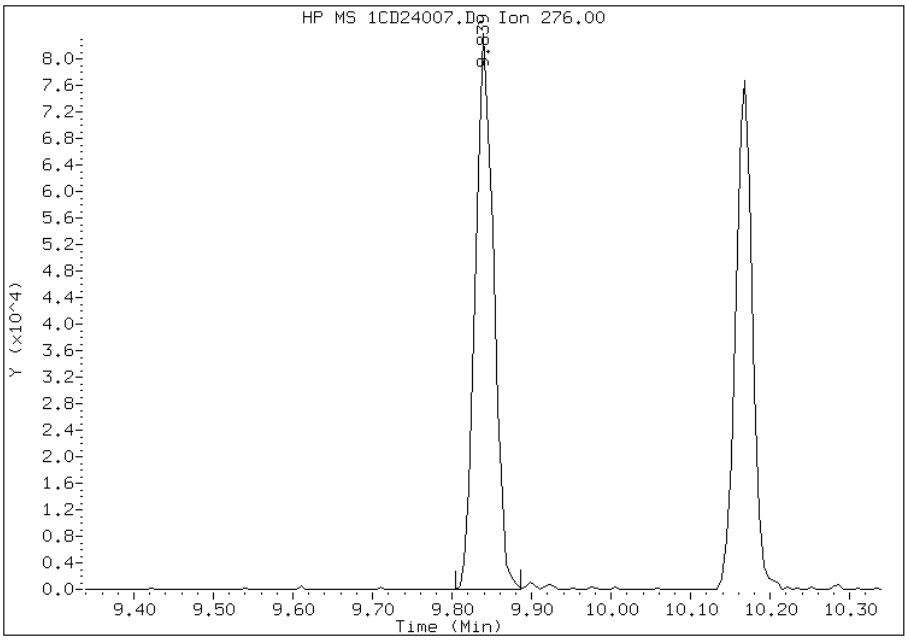
Processing Integration Results

RT: 9.84

Response: 133132

Amount: 23

Conc: 23



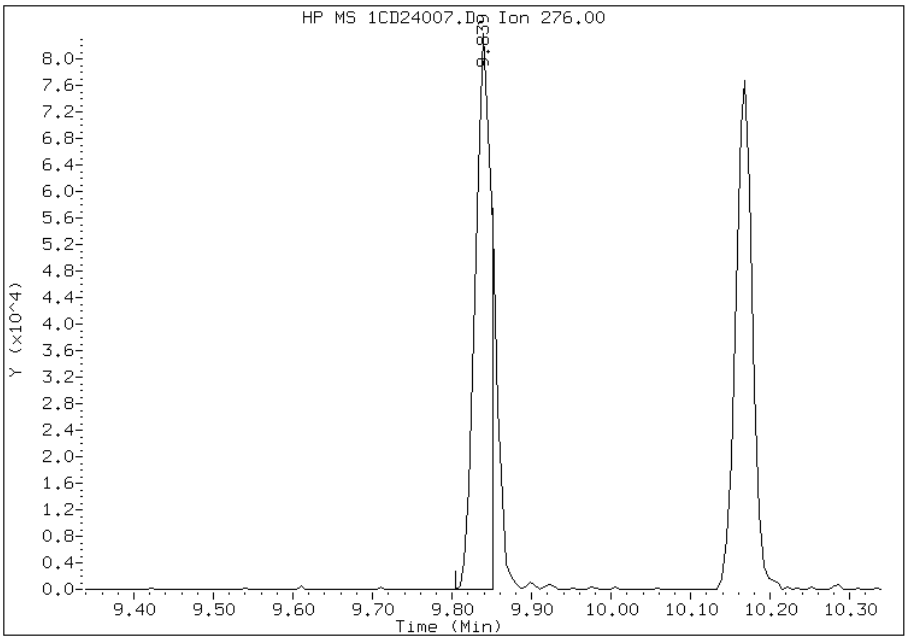
Manual Integration Results

RT: 9.84

Response: 116072

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:00
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24008.D
Lab Smp Id: IC-1531396
Inj Date : 24-APR-2013 14:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 13:57 Cal File: 1CD24007.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)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.633	3.633	(1.000)	139068	40.0000	
*	6 Acenaphthene-d10	164	4.721	4.721	(1.000)	86346	40.0000	
*	10 Phenanthrene-d10	188	5.657	5.657	(1.000)	152225	40.0000	
$	14 o-Terphenyl	230	5.915	5.915	(1.046)	439	0.20000	0.5641(Q)
*	18 Chrysene-d12	240	7.586	7.586	(1.000)	191522	40.0000	
*	23 Perylene-d12	264	8.733	8.733	(1.000)	207323	40.0000	
	2 Naphthalene	128	3.645	3.645	(1.003)	1035	0.20000	0.2711(Q)
	3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	519	0.20000	-0.2877(aQ)
	4 1-Methylnaphthalene	142	4.139	4.139	(1.139)	648	0.20000	0.2656(Q)
	5 Acenaphthylene	152	4.633	4.633	(0.981)	1481	0.20000	0.3206
	7 Acenaphthene	154	4.739	4.739	(1.004)	184	0.20000	0.0818(Q)
	9 Fluorene	166	5.063	5.063	(1.072)	308	0.20000	0.1176(Q)
	11 Phenanthrene	178	5.674	5.674	(1.003)	560	0.20000	0.2028(Q)
	12 Anthracene	178	5.710	5.710	(1.009)	1261	0.20000	0.2683(H)
	13 Carbazole	167	5.821	5.821	(1.029)	866	0.20000	0.2067(M)
	15 Fluoranthene	202	6.510	6.510	(1.151)	433	0.20000	0.0923(Q)
	16 Pyrene	202	6.668	6.668	(0.879)	1068	0.20000	0.1888
	17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	2756	0.20000	0.4782
	19 Chrysene	228	7.609	7.609	(1.003)	1172	0.20000	0.2142
	20 Benzo(b)fluoranthene	252	8.409	8.409	(0.963)	1334	0.20000	0.2326
	21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	965	0.20000	0.1729(Q)
	22 Benzo(a)pyrene	252	8.692	8.692	(0.995)	432	0.20000	0.0887(Q)
	24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	664	0.20000	0.7334(MH)
	25 Dibenzo(a,h)anthracene	278	9.833	9.833	(1.126)	764	0.20000	0.3968(MH)
	26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	857	0.20000	0.1637(MH)

QC Flag Legend

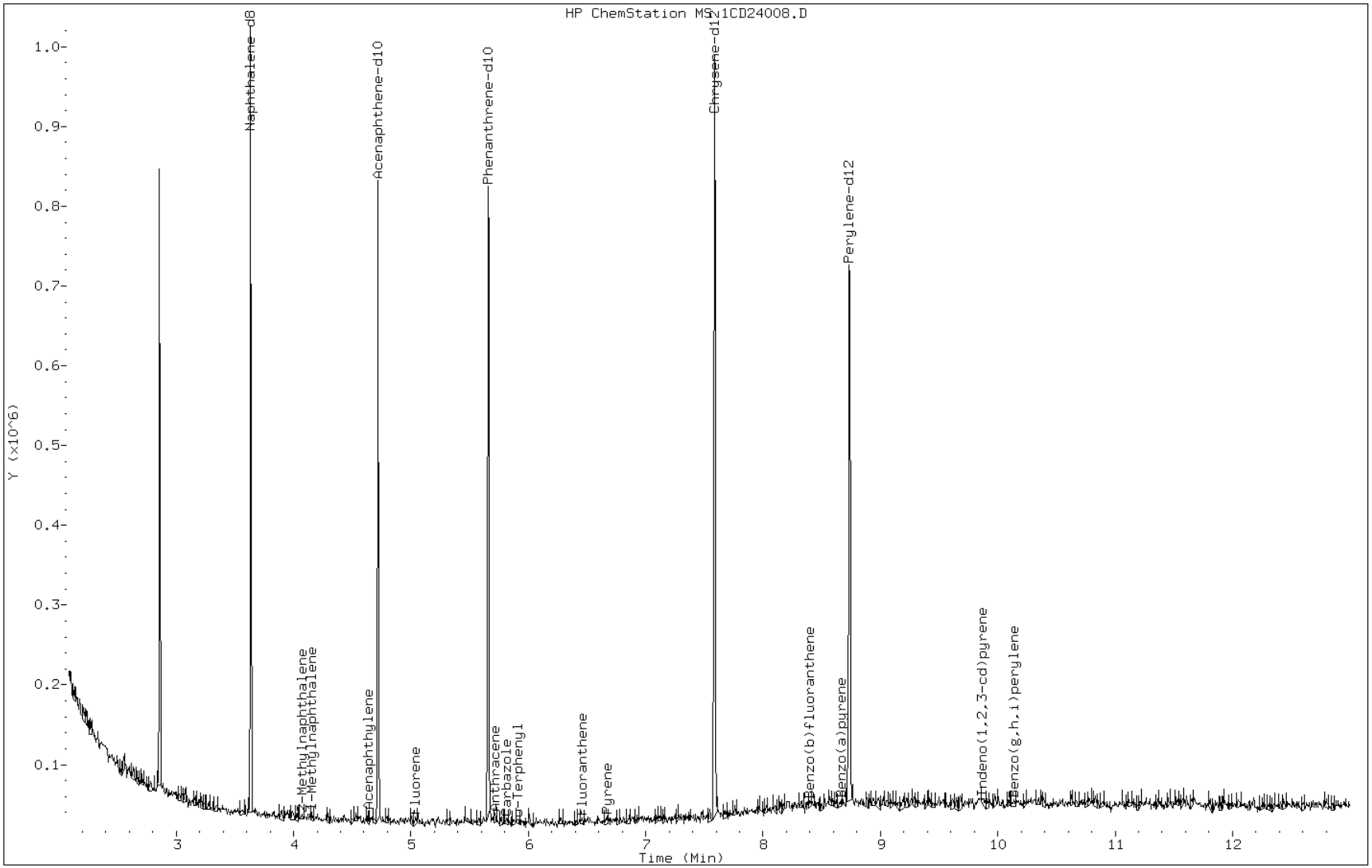
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD24008.D

Date: 24-APR-2013 14:16

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



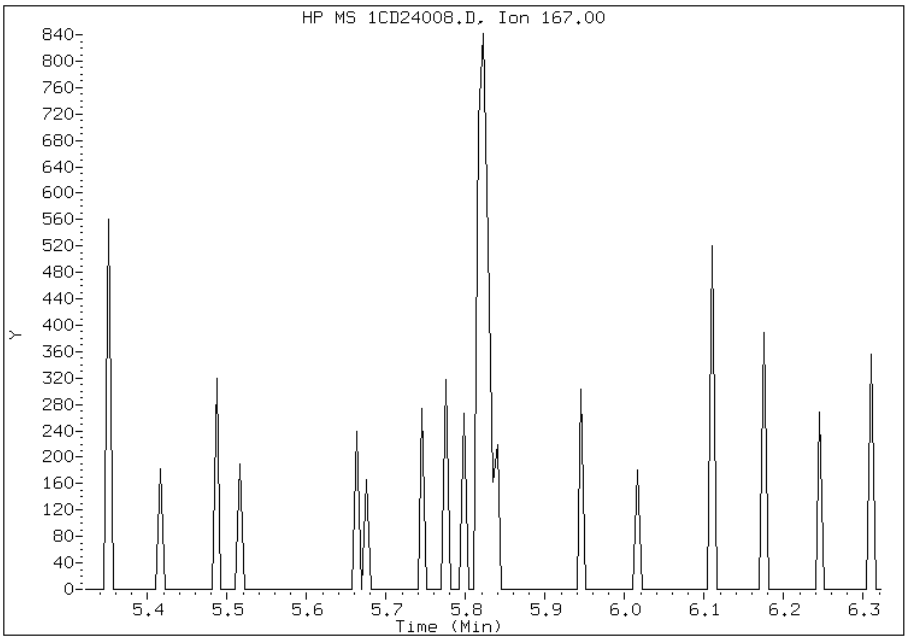
Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 04/24/2013

Processing Integration Results

Not Detected

Expected RT: 5.82



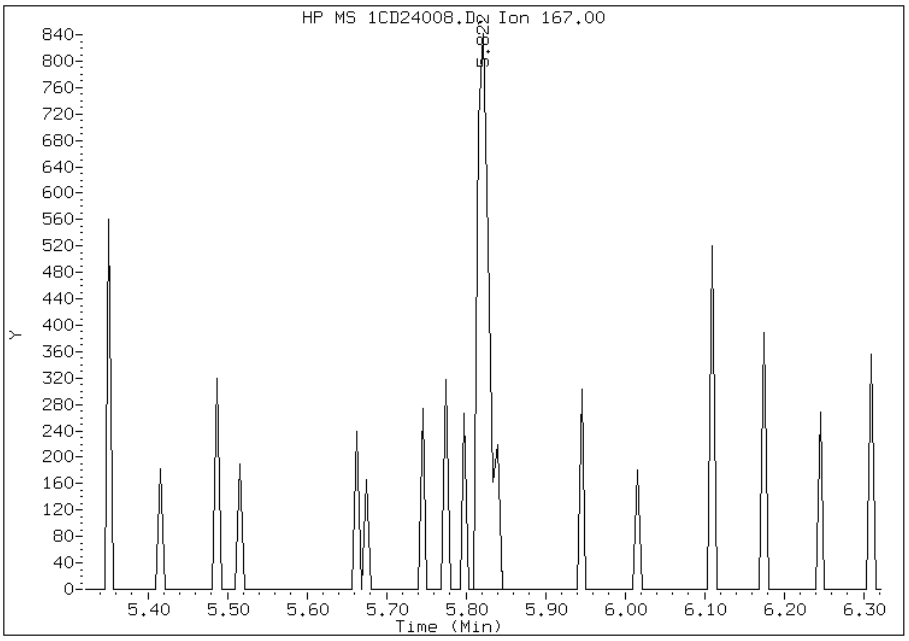
Manual Integration Results

RT: 5.82

Response: 866

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:05
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

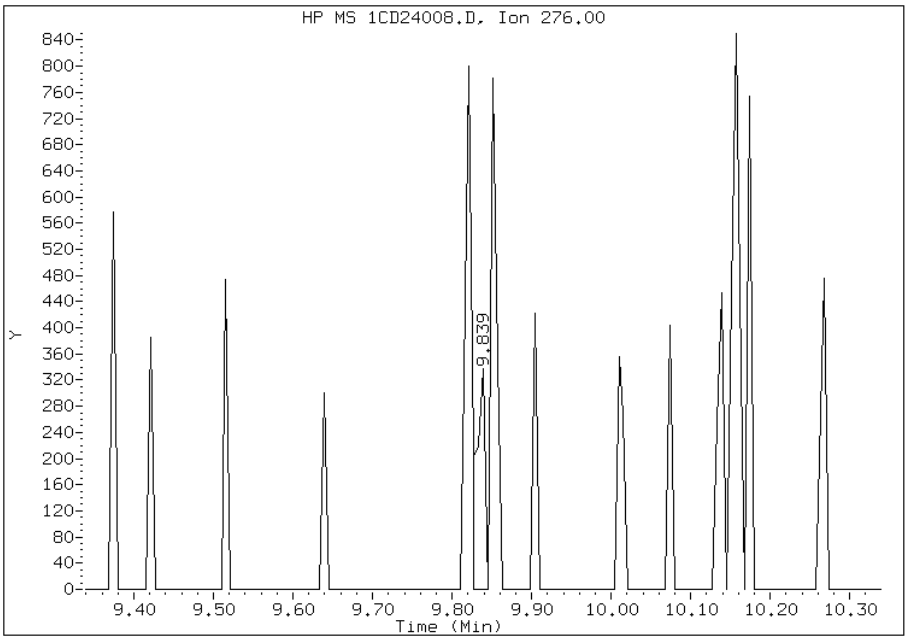
Processing Integration Results

RT: 9.84

Response: 268

Amount: 1

Conc: 1



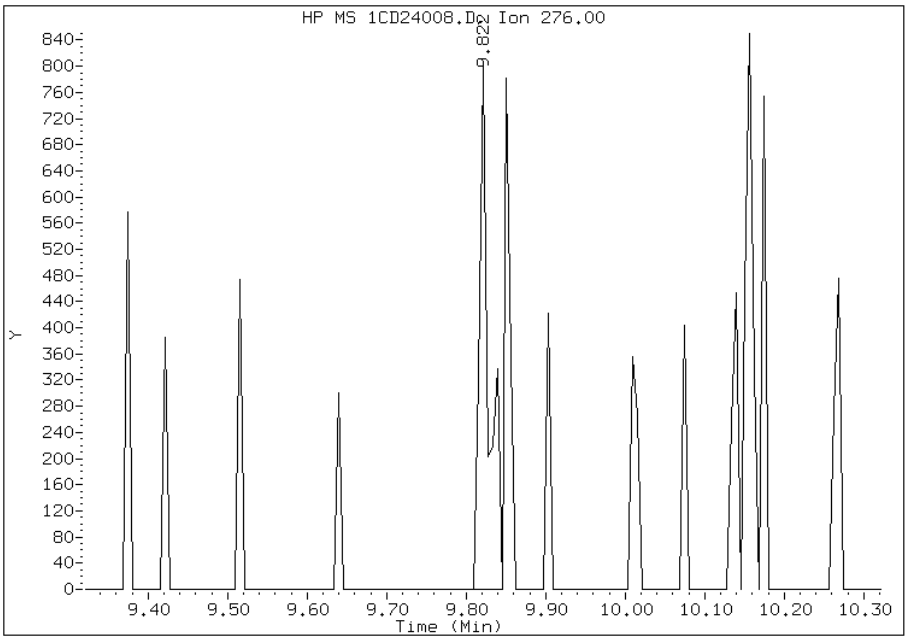
Manual Integration Results

RT: 9.82

Response: 664

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

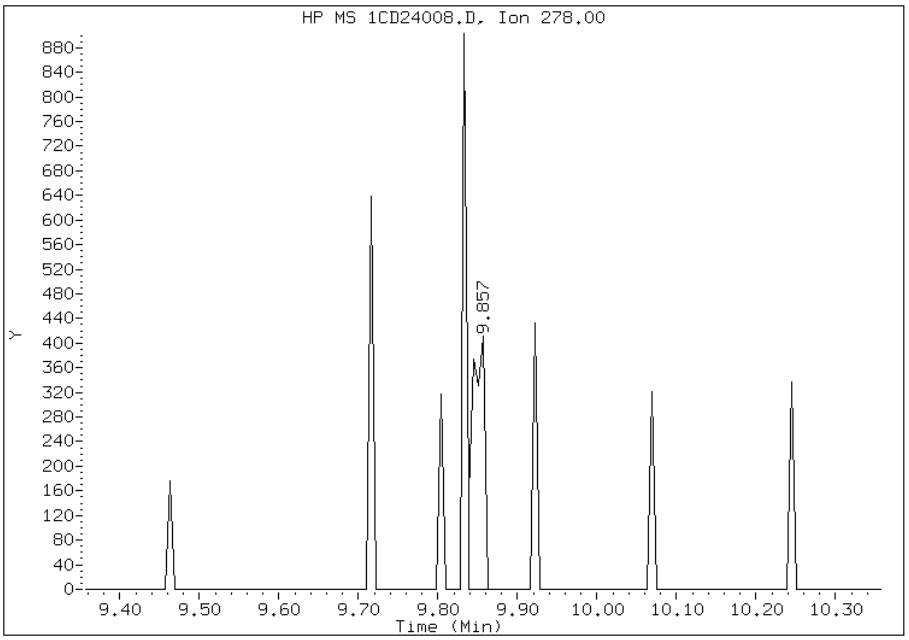
Processing Integration Results

RT: 9.86

Response: 447

Amount: 1

Conc: 1



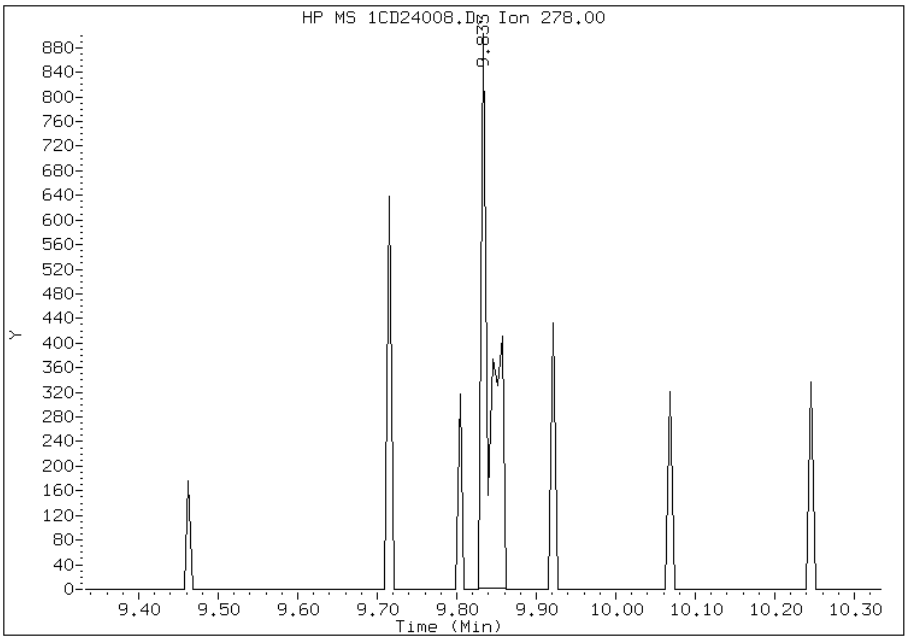
Manual Integration Results

RT: 9.83

Response: 764

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

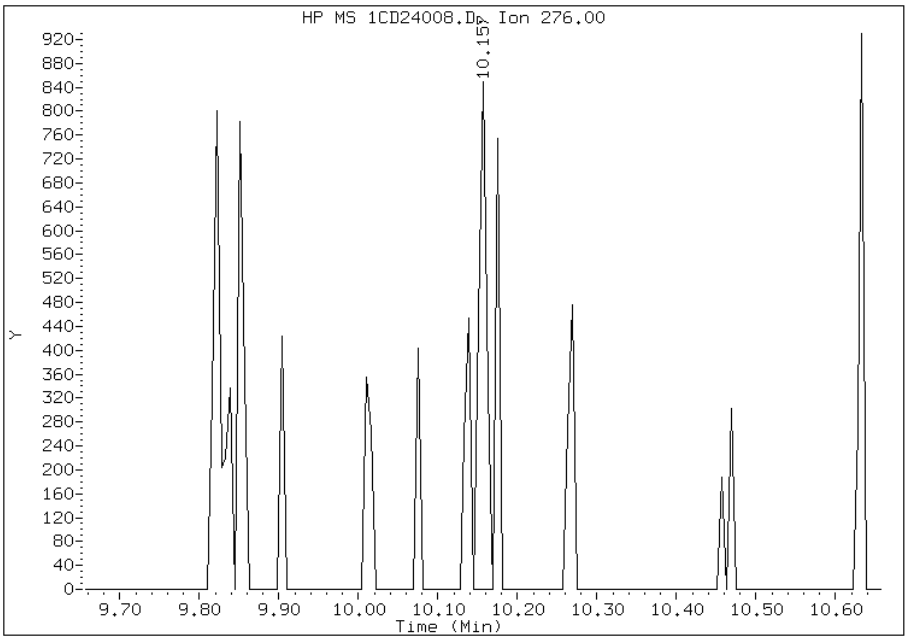
Processing Integration Results

RT: 10.16

Response: 578

Amount: 0

Conc: 0



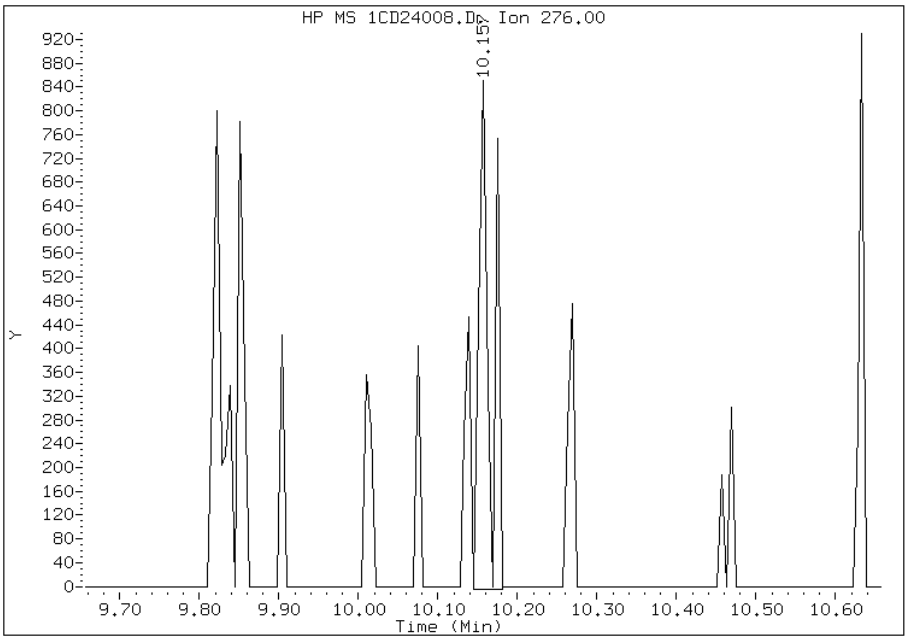
Manual Integration Results

RT: 10.16

Response: 857

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24009.D
Lab Smp Id: IC-1531398
Inj Date : 24-APR-2013 14:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:16 Cal File: 1CD24008.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	126978	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	79312	40.0000	
* 10 Phenanthrene-d10	188	5.657	5.657	(1.000)	132230	40.0000	
$ 14 o-Terphenyl	230	5.915	5.915	(1.046)	1649	1.00000	1.1890(Q)
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	149120	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	164557	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	2549	1.00000	0.7314(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	1339	1.00000	0.1469
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	2369	1.00000	1.0635(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	3801	1.00000	0.8958
7 Acenaphthene	154	4.739	4.739	(1.004)	2196	1.00000	1.0636(Q)
9 Fluorene	166	5.057	5.057	(1.071)	1754	1.00000	0.7295(QM)
11 Phenanthrene	178	5.674	5.674	(1.003)	3569	1.00000	0.9784(Q)
12 Anthracene	178	5.710	5.710	(1.009)	3614	1.00000	0.8852
13 Carbazole	167	5.821	5.821	(1.029)	2903	1.00000	0.7977
15 Fluoranthene	202	6.504	6.504	(1.150)	4827	1.00000	1.1847(Q)
16 Pyrene	202	6.668	6.668	(0.879)	4995	1.00000	1.1341
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	4071	1.00000	0.9073
19 Chrysene	228	7.609	7.609	(1.003)	3881	1.00000	0.9114
20 Benzo(b)fluoranthene	252	8.404	8.404	(0.962)	4851	1.00000	1.0658
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.964)	4210	1.00000	0.9507(Q)
22 Benzo(a)pyrene	252	8.680	8.680	(0.994)	3756	1.00000	0.9718(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.827	(1.125)	4226	1.00000	1.5419(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.845	(1.127)	4029	1.00000	1.1823(M)
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	4083	1.00000	0.9826(M)

QC Flag Legend

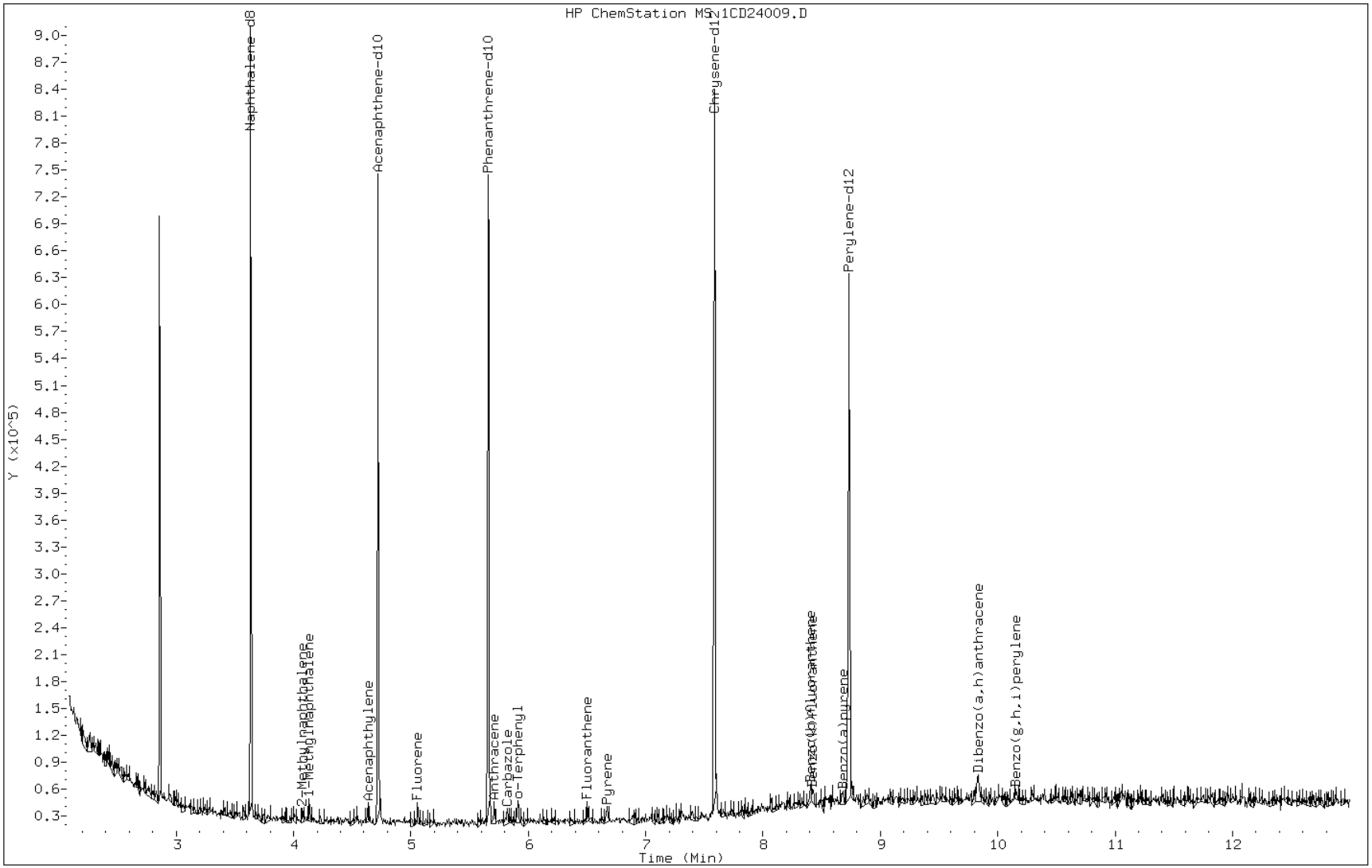
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD24009.D

Date: 24-APR-2013 14:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



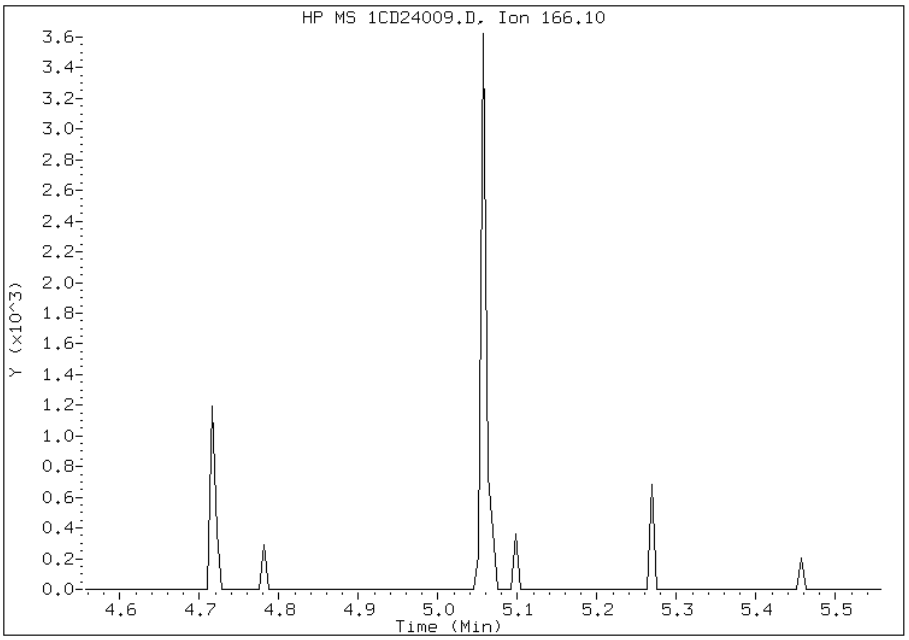
Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 9 Fluorene
CAS #: 86-73-7
Report Date: 04/24/2013

Processing Integration Results

Not Detected

Expected RT: 5.06



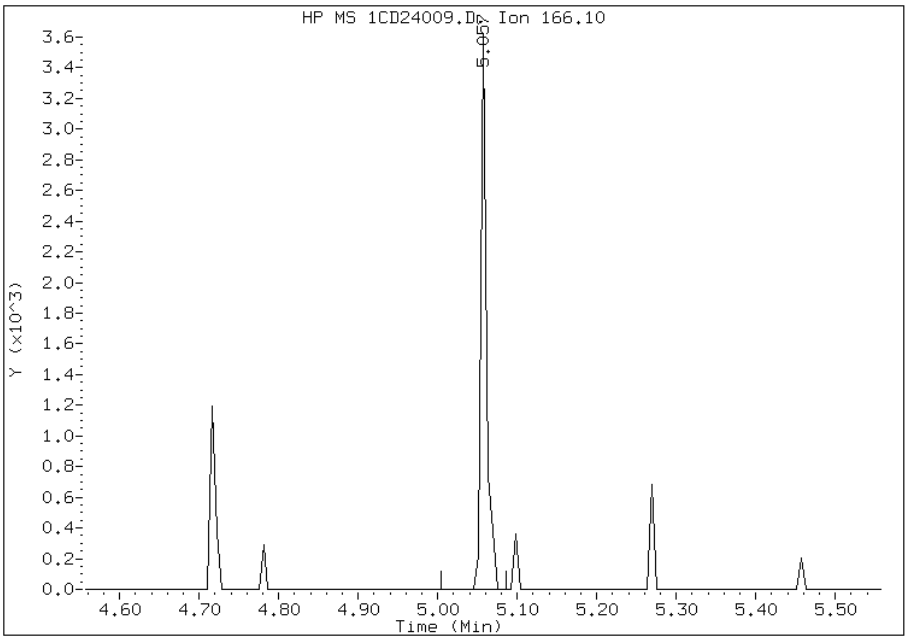
Manual Integration Results

RT: 5.06

Response: 1754

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

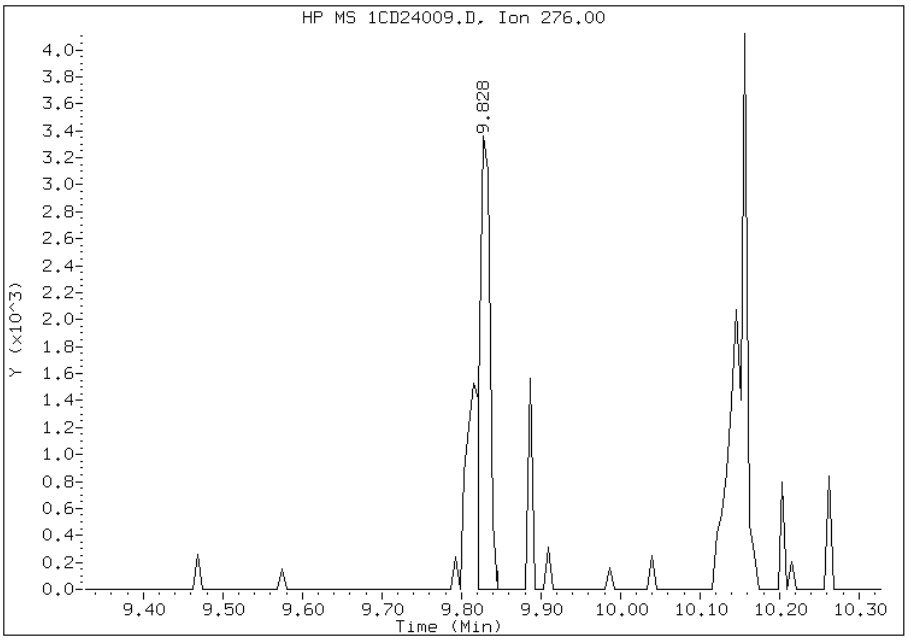
Processing Integration Results

RT: 9.83

Response: 2955

Amount: 2

Conc: 2



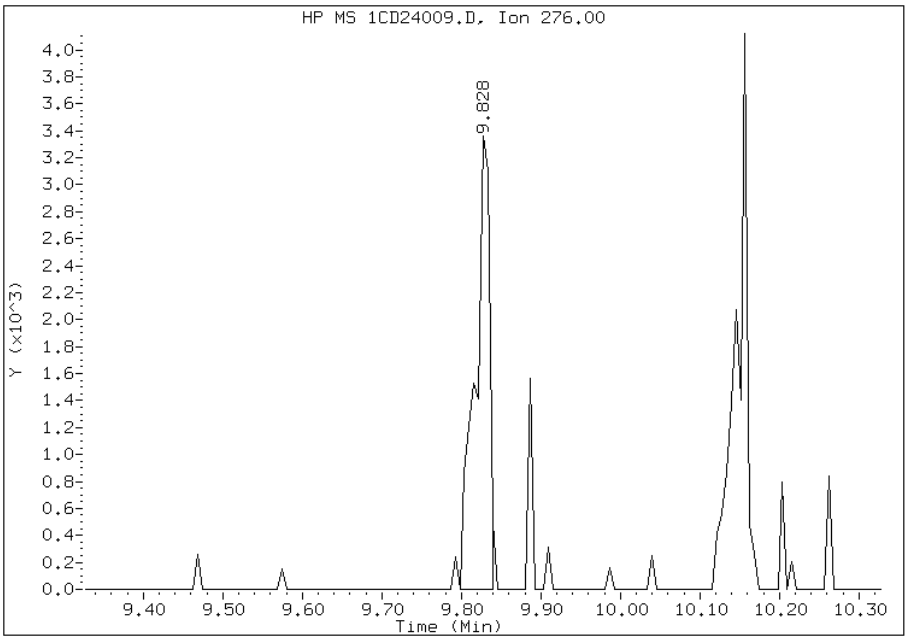
Manual Integration Results

RT: 9.83

Response: 4226

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

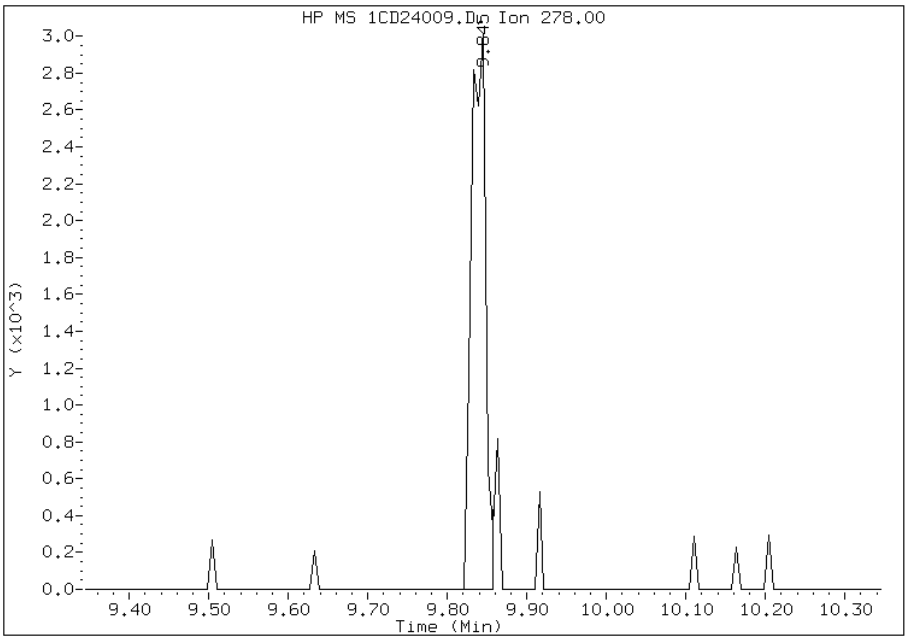
Processing Integration Results

RT: 9.85

Response: 3739

Amount: 1

Conc: 1



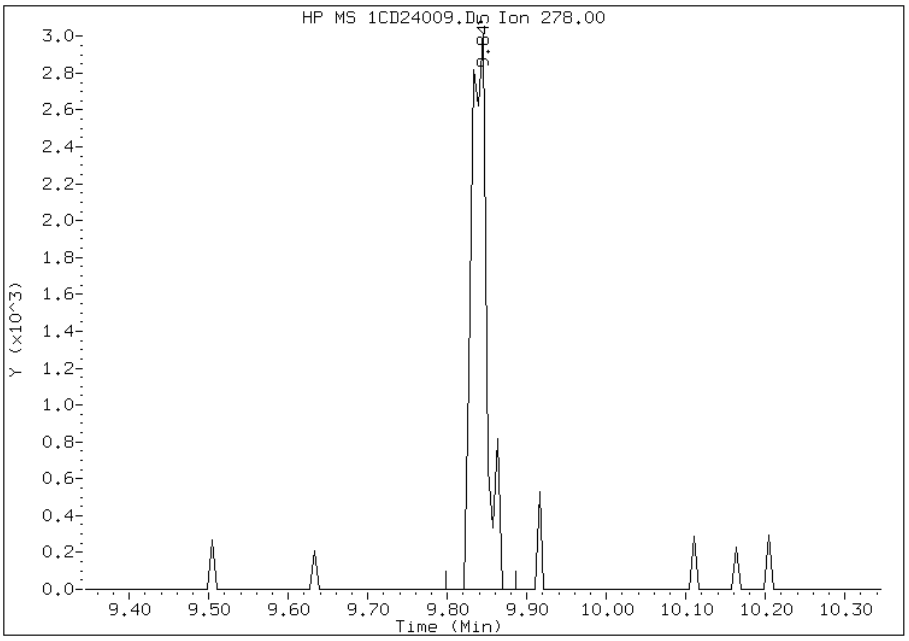
Manual Integration Results

RT: 9.85

Response: 4029

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

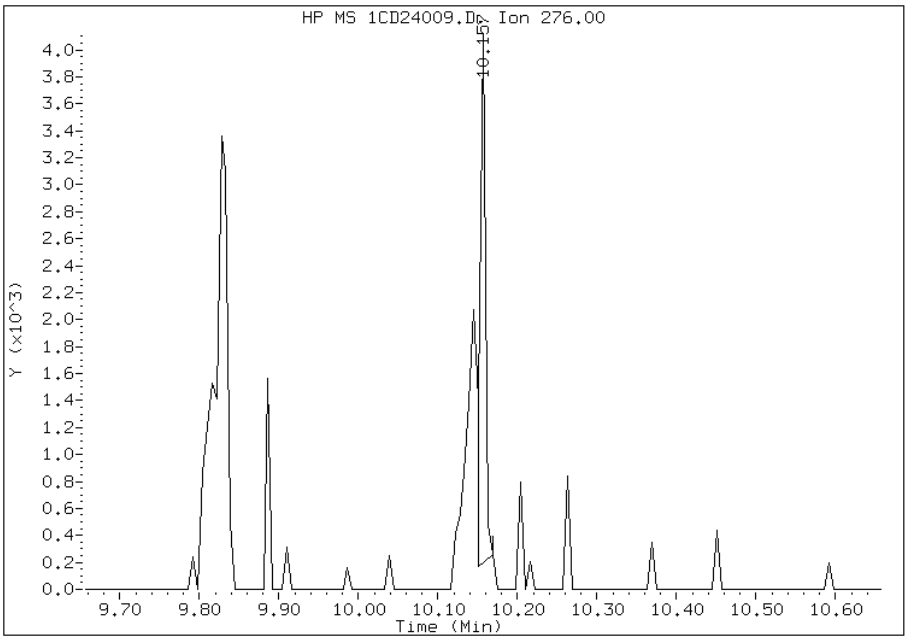
Processing Integration Results

RT: 10.16

Response: 1906

Amount: 0

Conc: 0



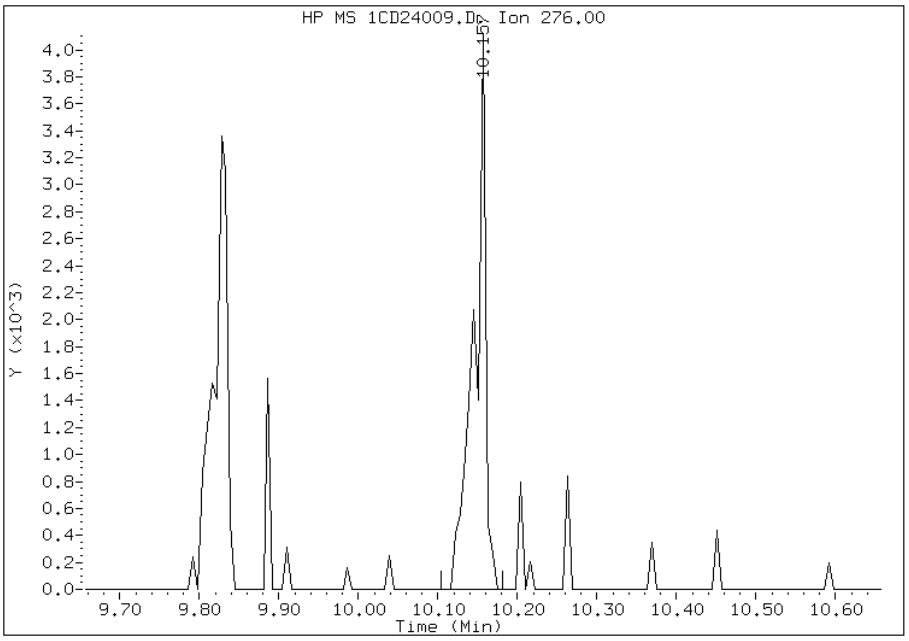
Manual Integration Results

RT: 10.16

Response: 4083

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24010.D
Lab Smp Id: IC-1531399
Inj Date : 24-APR-2013 14:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:34 Cal File: 1CD24009.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	132911	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	76929	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.662	(1.000)	138489	40.0000	
$ 14 o-Terphenyl	230	5.909	5.909	(1.044)	10394	5.00000	5.2683
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	181945	40.0000	
* 23 Perylene-d12	264	8.727	8.727	(1.000)	215540	40.0000	
2 Naphthalene	128	3.651	3.651	(1.005)	20341	5.00000	5.5765(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	10424	5.00000	4.4786(Q)
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	11516	5.00000	4.9391(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	20507	5.00000	4.9828
7 Acenaphthene	154	4.739	4.739	(1.004)	11510	5.00000	5.7477(Q)
9 Fluorene	166	5.057	5.057	(1.071)	13841	5.00000	5.9354(Q)
11 Phenanthrene	178	5.674	5.674	(1.002)	20935	5.00000	5.1331
12 Anthracene	178	5.709	5.709	(1.008)	22082	5.00000	5.1645
13 Carbazole	167	5.815	5.815	(1.027)	20351	5.00000	5.3395
15 Fluoranthene	202	6.504	6.504	(1.149)	22974	5.00000	5.3839
16 Pyrene	202	6.668	6.668	(0.879)	28020	5.00000	5.2145
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	22168	5.00000	4.0493
19 Chrysene	228	7.609	7.609	(1.003)	25011	5.00000	4.8139
20 Benzo(b)fluoranthene	252	8.398	8.398	(0.962)	22111	5.00000	3.7091
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.965)	27095	5.00000	4.6713
22 Benzo(a)pyrene	252	8.674	8.674	(0.994)	23731	5.00000	4.6880
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	20110	5.00000	3.9740(M)
25 Dibenzo(a,h)anthracene	278	9.833	9.833	(1.127)	25125	5.00000	4.6603
26 Benzo(g,h,i)perylene	276	10.144	10.144	(1.162)	27296	5.00000	5.0155

QC Flag Legend

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

Data File: 1CD24010.D

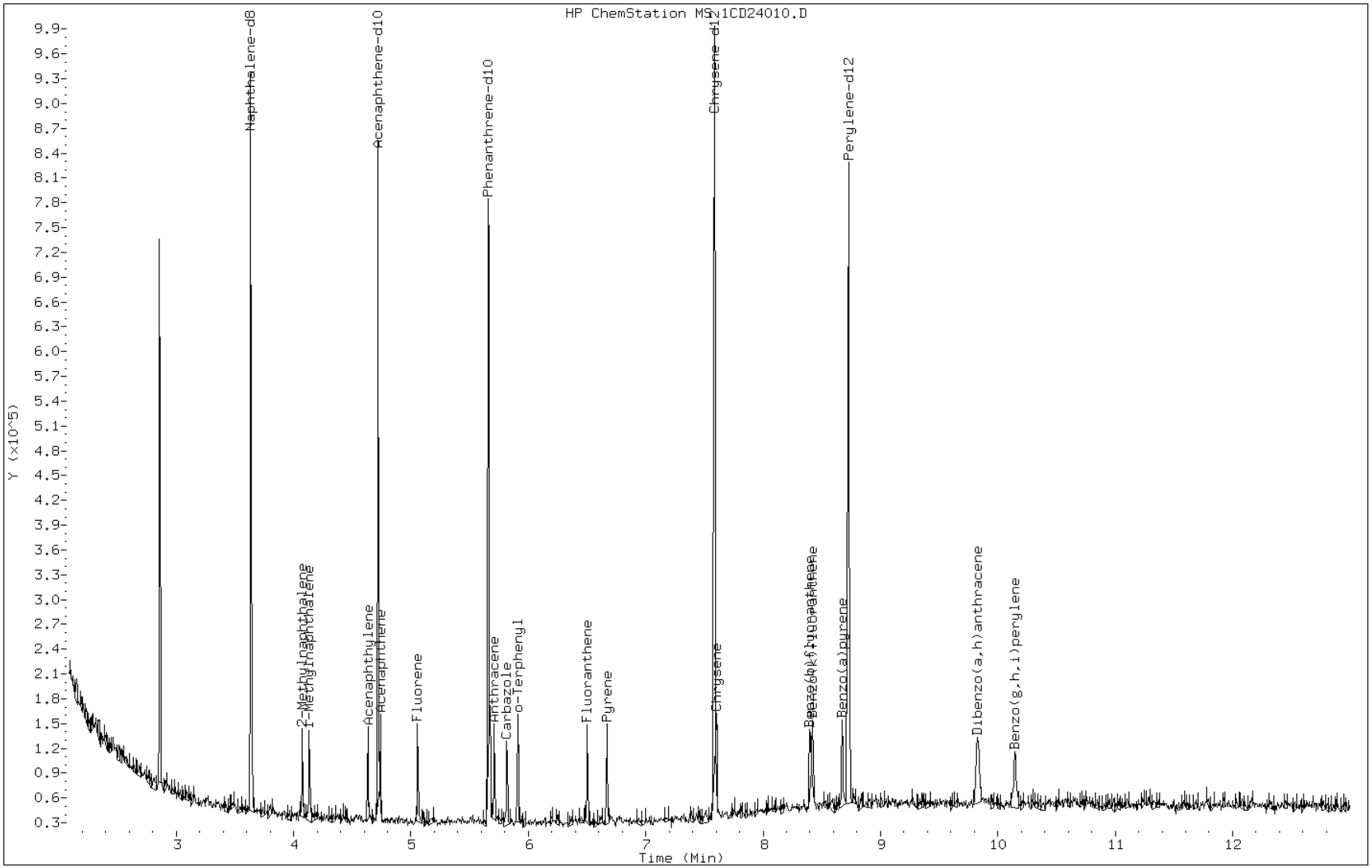
Date: 24-APR-2013 14:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC



Manual Integration Report

Data File: 1CD24010.D
Inj. Date and Time: 24-APR-2013 14:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

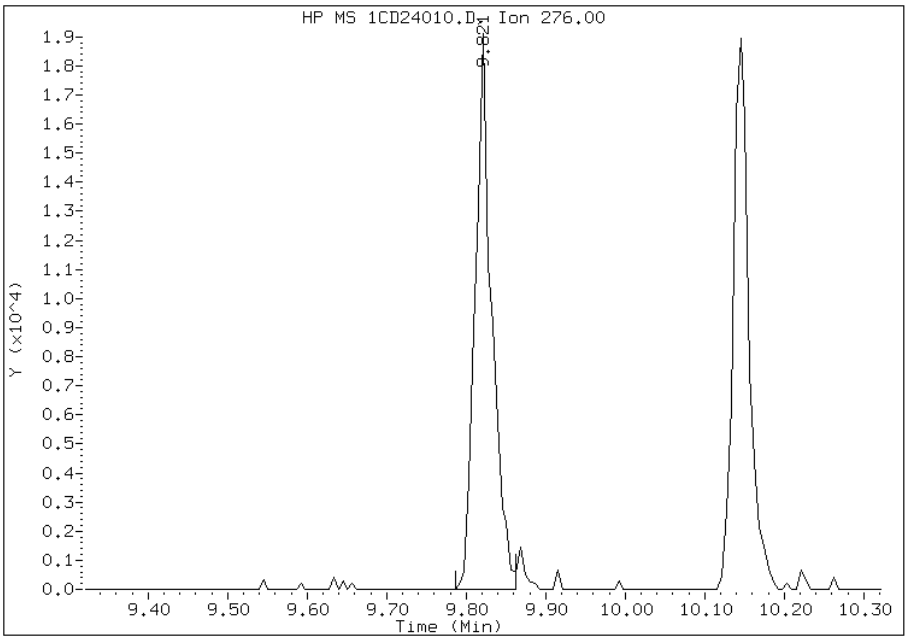
Processing Integration Results

RT: 9.82

Response: 27620

Amount: 6

Conc: 6



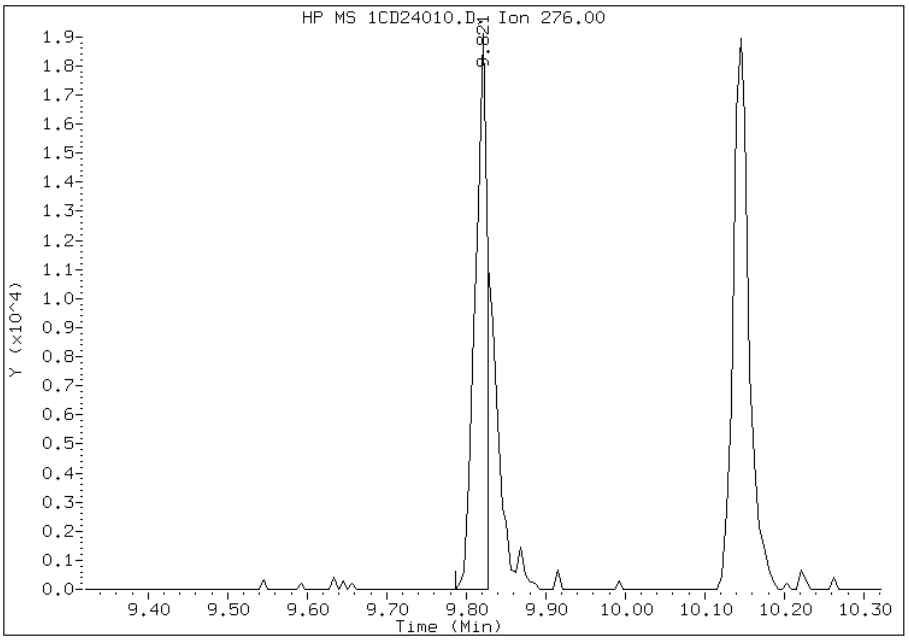
Manual Integration Results

RT: 9.82

Response: 20110

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:20
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24011.D
Lab Smp Id: IC-1531400
Inj Date : 24-APR-2013 15:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:52 Cal File: 1CD24010.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	136256	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	80647	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.662	(1.000)	151912	40.0000	
$ 14 o-Terphenyl	230	5.909	5.909	(1.044)	22471	10.0000	10.0180
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	186755	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	207585	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	36506	10.0000	9.7624
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	22212	10.0000	9.8763
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	22472	10.0000	9.4015
5 Acenaphthylene	152	4.633	4.633	(0.981)	36679	10.0000	8.5014
7 Acenaphthene	154	4.739	4.739	(1.004)	20558	10.0000	9.7927
9 Fluorene	166	5.057	5.057	(1.071)	24378	10.0000	9.9720
11 Phenanthrene	178	5.674	5.674	(1.002)	44728	10.0000	9.9757
12 Anthracene	178	5.709	5.709	(1.008)	37381	10.0000	7.9702
13 Carbazole	167	5.815	5.815	(1.027)	41744	10.0000	9.9847
15 Fluoranthene	202	6.504	6.504	(1.149)	47287	10.0000	10.1026
16 Pyrene	202	6.668	6.668	(0.879)	49927	10.0000	9.0520
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	49156	10.0000	8.7479
19 Chrysene	228	7.609	7.609	(1.003)	52901	10.0000	9.9197
20 Benzo(b)fluoranthene	252	8.403	8.403	(0.962)	53250	10.0000	9.2751
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	54841	10.0000	9.8172
22 Benzo(a)pyrene	252	8.680	8.680	(0.994)	53716	10.0000	11.0182
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	53522	10.0000	9.8918(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.839	(1.127)	49442	10.0000	9.2535
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	52142	10.0000	9.9479(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24011.D

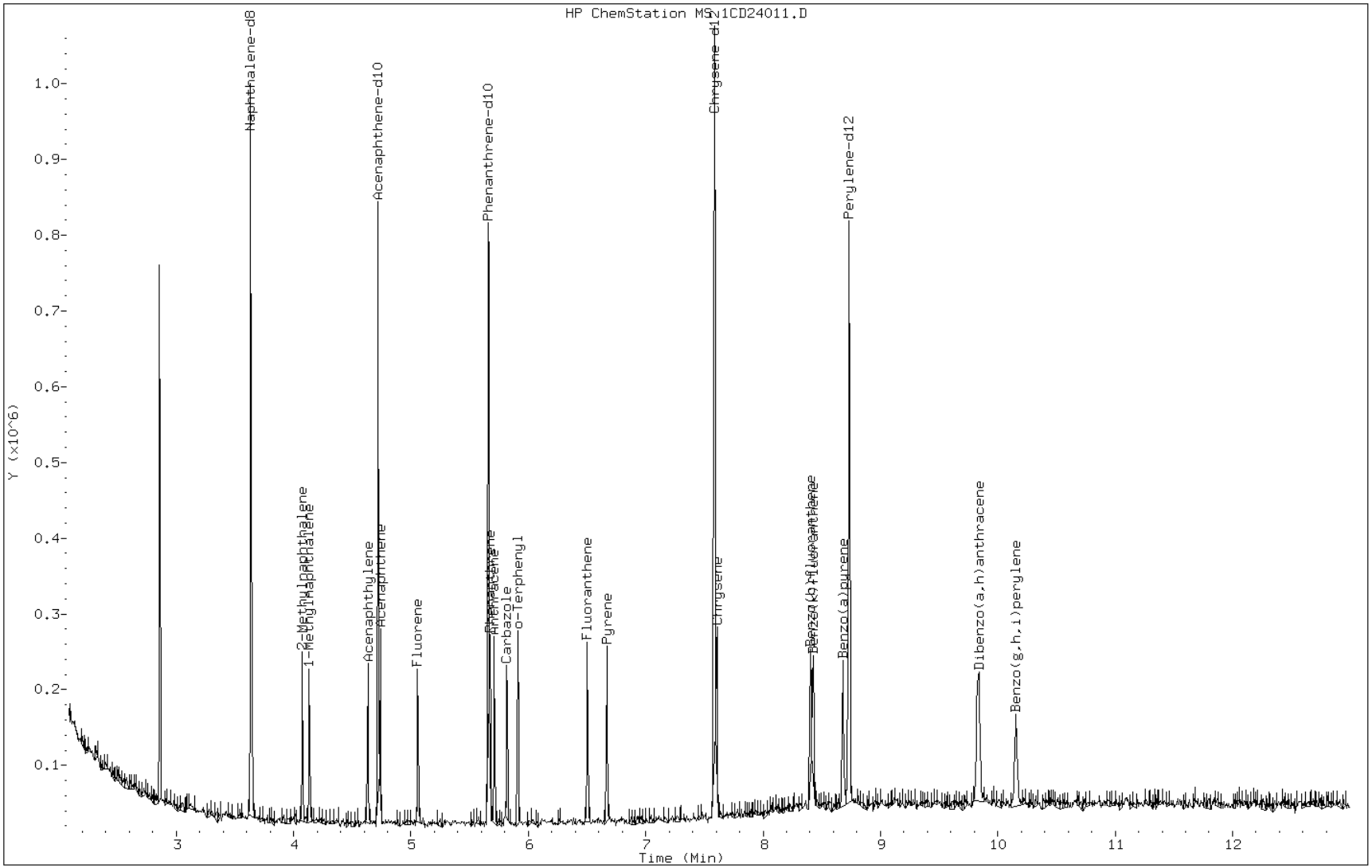
Date: 24-APR-2013 15:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1CD24011.D
Inj. Date and Time: 24-APR-2013 15:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

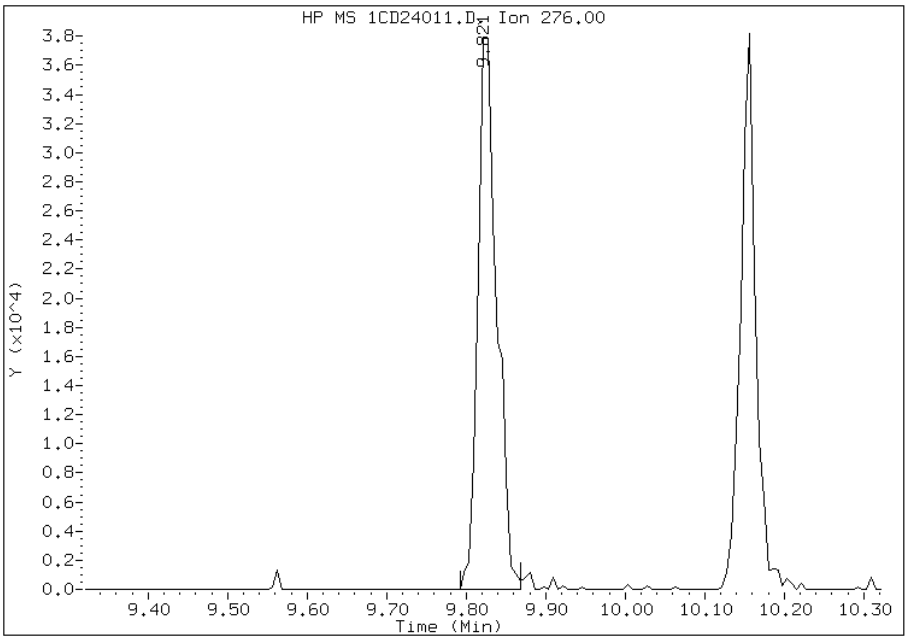
Processing Integration Results

RT: 9.82

Response: 62952

Amount: 10

Conc: 10



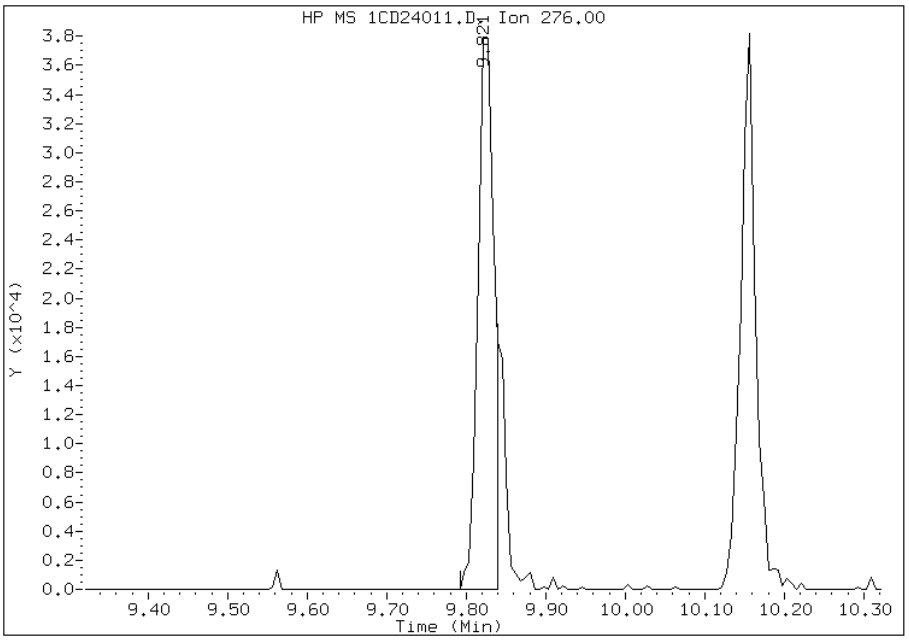
Manual Integration Results

RT: 9.82

Response: 53522

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24011.D
Inj. Date and Time: 24-APR-2013 15:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

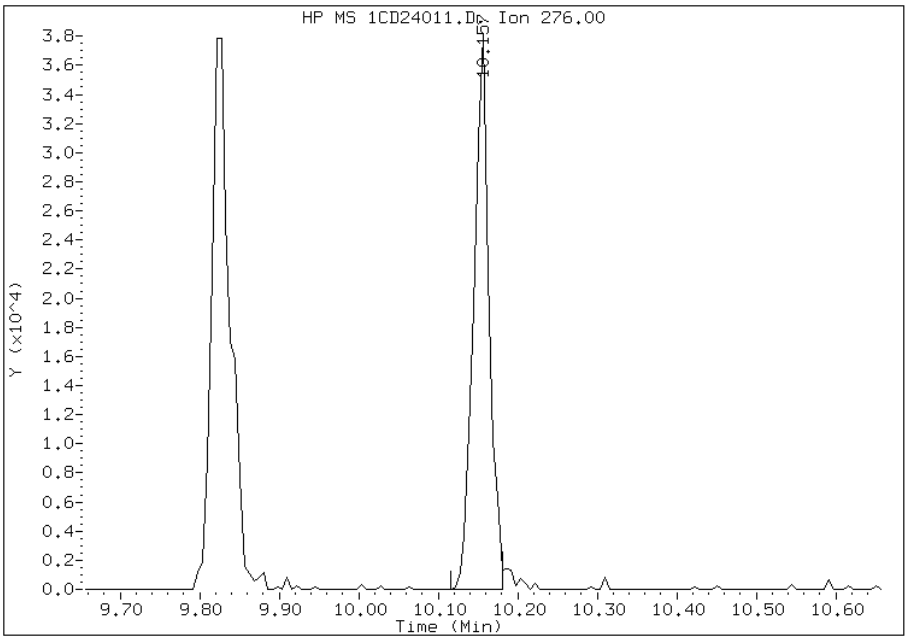
Processing Integration Results

RT: 10.16

Response: 50699

Amount: 11

Conc: 11



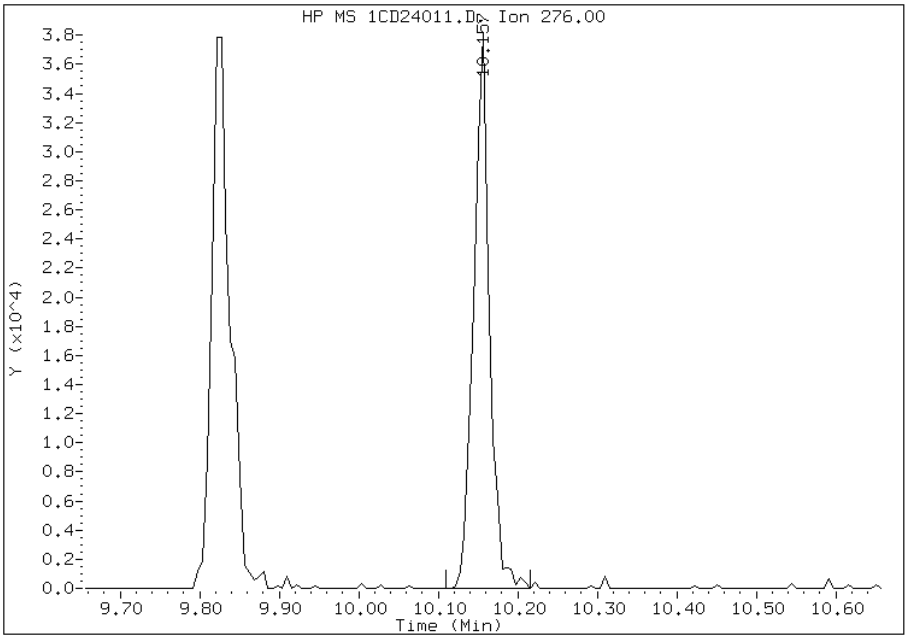
Manual Integration Results

RT: 10.16

Response: 52142

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:20
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24012.D
Lab Smp Id: IC-1531402
Inj Date : 24-APR-2013 15:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:11 Cal File: 1CD24011.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	3.633	3.633	(1.000)	129196	40.0000	
*	6 Acenaphthene-d10	164	4.722	4.722	(1.000)	74931	40.0000	
*	10 Phenanthrene-d10	188	5.663	5.663	(1.000)	141643	40.0000	
$	14 o-Terphenyl	230	5.910	5.910	(1.044)	58861	30.0000	27.4632
*	18 Chrysene-d12	240	7.586	7.586	(1.000)	174270	40.0000	
*	23 Perylene-d12	264	8.727	8.727	(1.000)	185685	40.0000	
	2 Naphthalene	128	3.645	3.645	(1.003)	103423	30.0000	29.1688
	3 2-Methylnaphthalene	142	4.075	4.075	(1.121)	63749	30.0000	30.9602
	4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	60013	30.0000	26.4794
	5 Acenaphthylene	152	4.633	4.633	(0.981)	116035	30.0000	28.9463
	7 Acenaphthene	154	4.739	4.739	(1.004)	70759	30.0000	36.2770
	9 Fluorene	166	5.057	5.057	(1.071)	80821	30.0000	35.5826
	11 Phenanthrene	178	5.674	5.674	(1.002)	124603	30.0000	30.3046
	12 Anthracene	178	5.710	5.710	(1.008)	133306	30.0000	30.4837
	13 Carbazole	167	5.816	5.816	(1.027)	124856	30.0000	32.0294
	15 Fluoranthene	202	6.504	6.504	(1.149)	140868	30.0000	32.2775
	16 Pyrene	202	6.668	6.668	(0.879)	148768	30.0000	28.9049
	17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	146829	30.0000	28.0019
	19 Chrysene	228	7.610	7.610	(1.003)	152301	30.0000	30.6047
	20 Benzo(b)fluoranthene	252	8.404	8.404	(0.963)	179789	30.0000	35.0092
	21 Benzo(k)fluoranthene	252	8.421	8.421	(0.965)	147881	30.0000	29.5949
	22 Benzo(a)pyrene	252	8.680	8.680	(0.995)	157348	30.0000	36.0817
	24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	158186	30.0000	31.2592(M)
	25 Dibenzo(a,h)anthracene	278	9.839	9.839	(1.127)	150284	30.0000	30.8266
	26 Benzo(g,h,i)perylene	276	10.151	10.151	(1.163)	159984	30.0000	34.1227

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24012.D

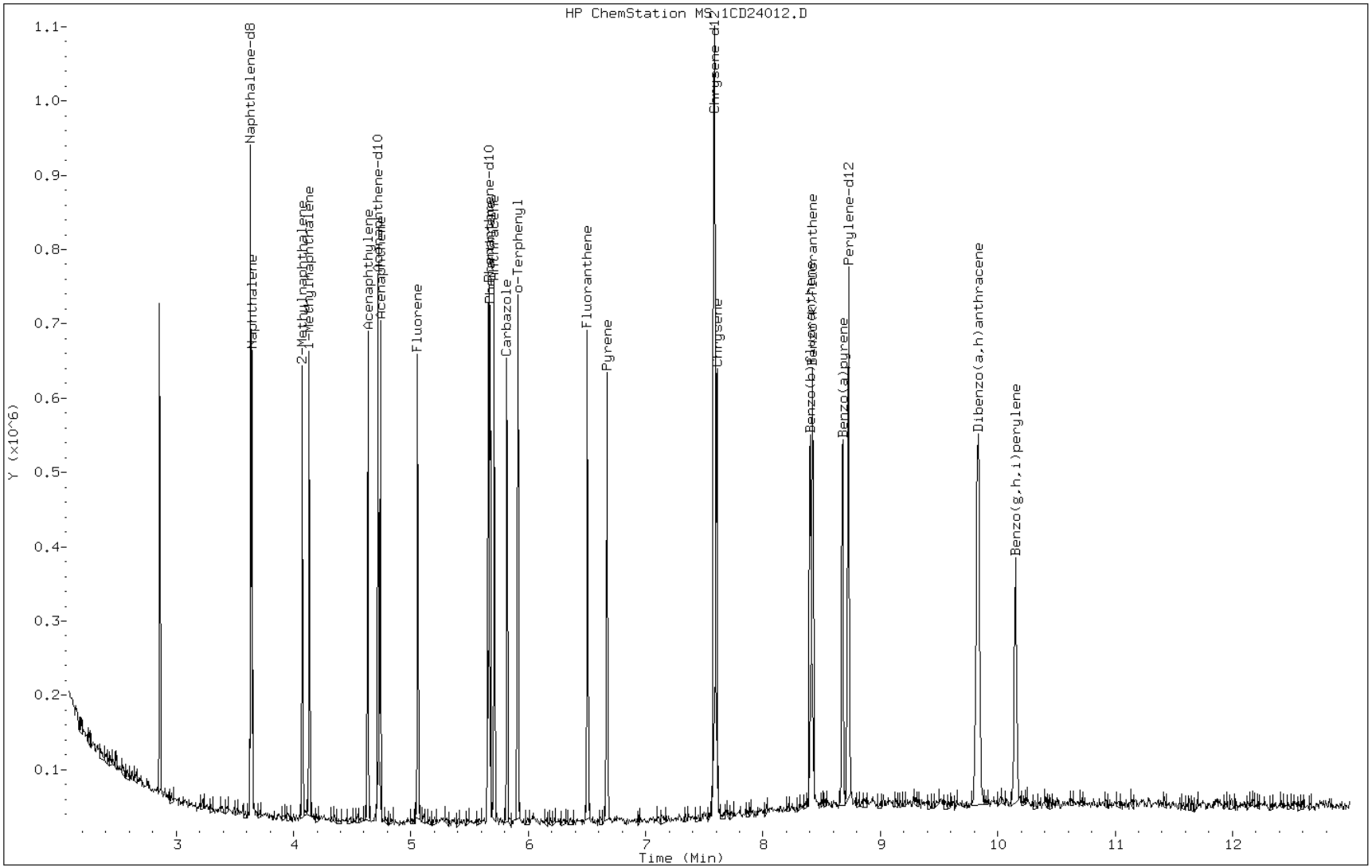
Date: 24-APR-2013 15:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC



Manual Integration Report

Data File: 1CD24012.D
Inj. Date and Time: 24-APR-2013 15:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

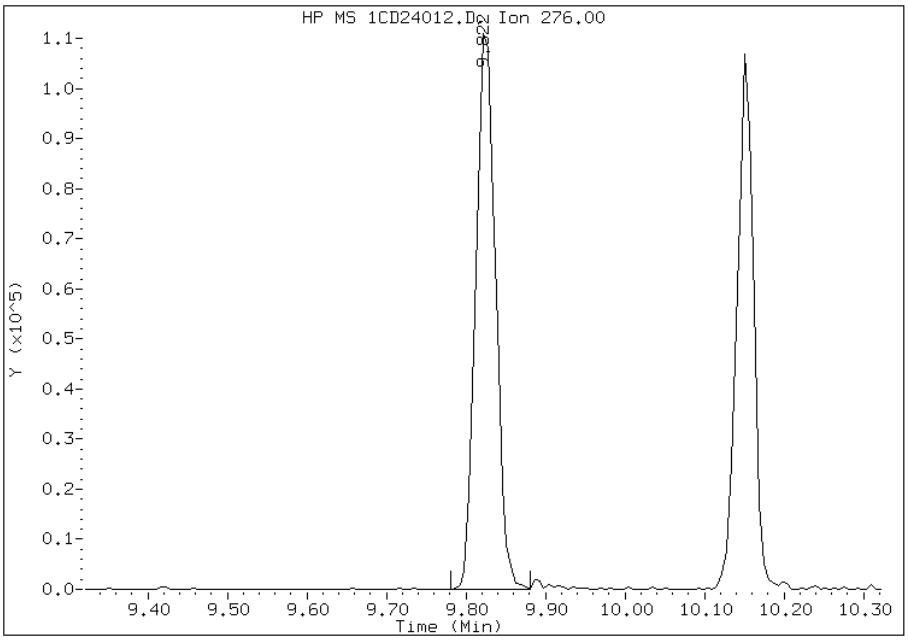
Processing Integration Results

RT: 9.82

Response: 189780

Amount: 36

Conc: 36



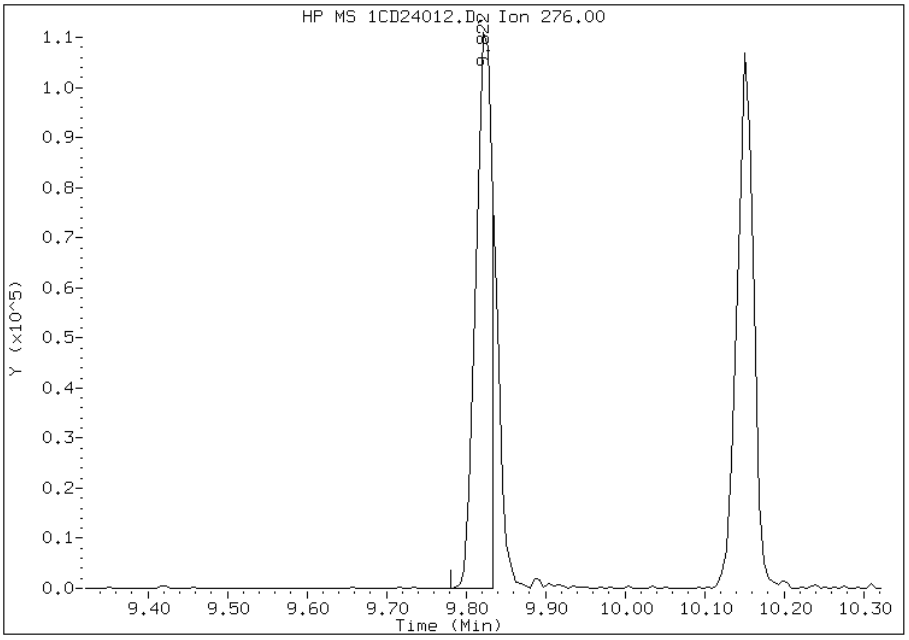
Manual Integration Results

RT: 9.82

Response: 158186

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:21
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24013.D
Lab Smp Id: IC-1531403
Inj Date : 24-APR-2013 15:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:29 Cal File: 1CD24012.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	154092	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	91835	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	166249	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	129301	50.0000	51.0720(A)
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	195103	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	233898	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	191564	50.0000	45.2985
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	117199	50.0000	48.0073
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	110635	50.0000	40.9284
5 Acenaphthylene	152	4.633	4.633	(0.981)	202374	50.0000	41.1919
7 Acenaphthene	154	4.739	4.739	(1.004)	128735	50.0000	53.8518(A)
9 Fluorene	166	5.057	5.057	(1.071)	153739	50.0000	55.2269(A)
11 Phenanthrene	178	5.674	5.674	(1.002)	236464	50.0000	49.9376
12 Anthracene	178	5.710	5.710	(1.008)	244157	50.0000	47.5689
13 Carbazole	167	5.821	5.821	(1.028)	234016	50.0000	51.1471(A)
15 Fluoranthene	202	6.504	6.504	(1.149)	273177	50.0000	53.3296(A)
16 Pyrene	202	6.674	6.674	(0.879)	302673	50.0000	52.5285(A)
17 Benzo(a)anthracene	228	7.580	7.580	(0.998)	305445	50.0000	52.0317(A)
19 Chrysene	228	7.610	7.610	(1.002)	296655	50.0000	53.2472(A)
20 Benzo(b)fluoranthene	252	8.409	8.409	(0.963)	310324	50.0000	47.9716
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	360897	50.0000	57.3375(A)
22 Benzo(a)pyrene	252	8.686	8.686	(0.995)	313949	50.0000	57.1526(A)
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.126)	318480	50.0000	49.5924(M)
25 Dibenzo(a,h)anthracene	278	9.851	9.851	(1.128)	304881	50.0000	49.4898
26 Benzo(g,h,i)perylene	276	10.162	10.162	(1.164)	306375	50.0000	51.8765(A)

QC Flag Legend

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

Data File: 1CD24013.D

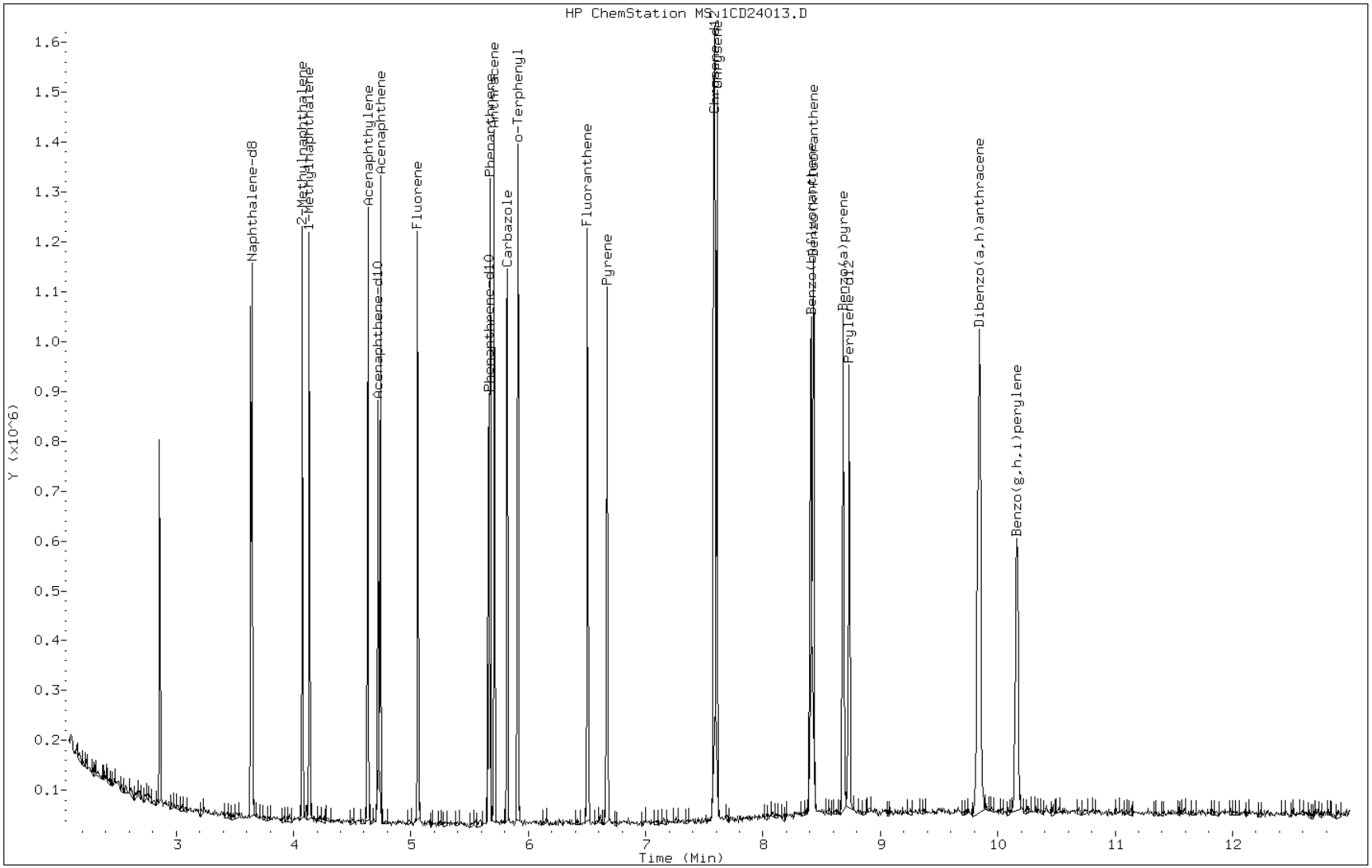
Date: 24-APR-2013 15:47

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC



Manual Integration Report

Data File: 1CD24013.D
Inj. Date and Time: 24-APR-2013 15:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

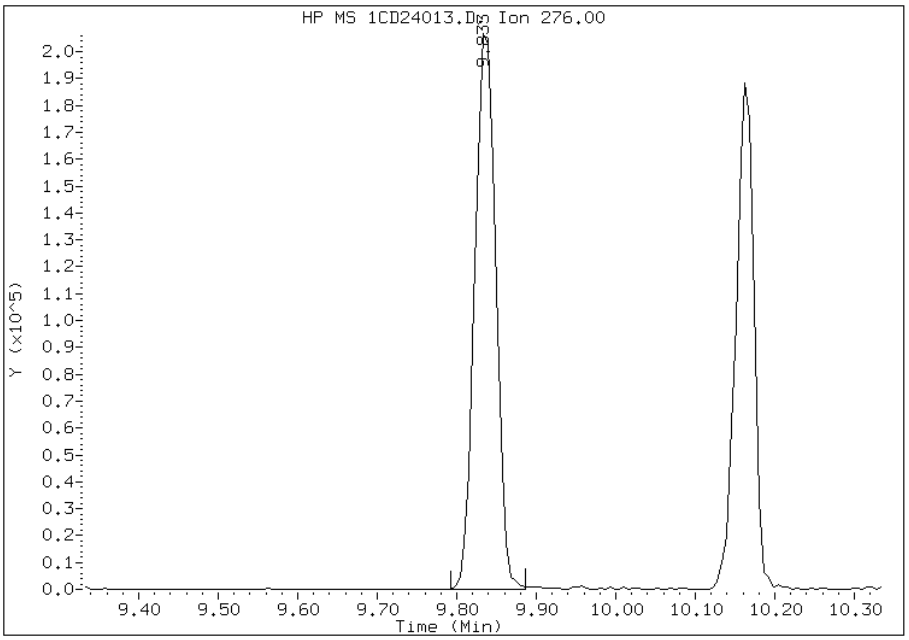
Processing Integration Results

RT: 9.83

Response: 377776

Amount: 50

Conc: 50



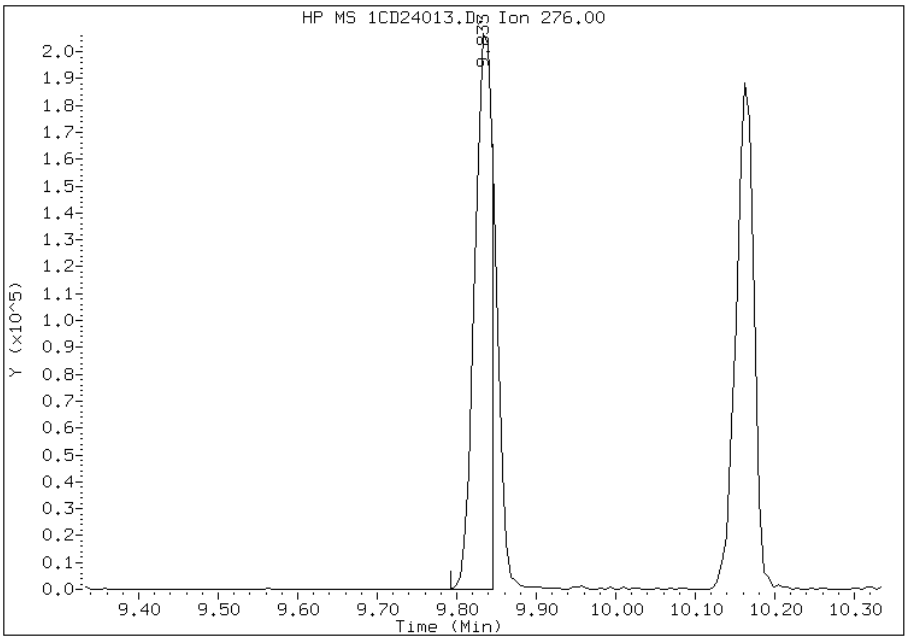
Manual Integration Results

RT: 9.83

Response: 318480

Amount: 50

Conc: 50



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:22
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab Sample ID: ICV 660-136370/10 Calibration Date: 04/11/2013 14:25

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD11010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	0.9667	0.0000	2000	20.0	-10.6	35.0
2-Methylnaphthalene	Lin	0.6730	0.7057	0.0000	2000	20.0	-1.1	35.0
1-Methylnaphthalene	Ave	0.6907	0.6750	0.0000	2000	20.0	-2.3	35.0
Acenaphthylene	Ave	1.695	1.600	0.0000	1000	20.0	-5.6	35.0
Acenaphthene	Ave	1.021	0.9034	0.0000	2000	20.0	-11.6	35.0
Fluorene	Ave	1.300	1.293	0.0000	2000	20.0	-0.6	35.0
Phenanthrene	Qua	1.293	1.058	0.0000	500	20.0	-9.4	35.0
Anthracene	Ave	1.161	1.108	0.0000	200	20.0	-4.6	35.0
Carbazole	Ave	1.082	1.002	0.0000	1000	20.0	-7.3	35.0
Fluoranthene	Ave	1.298	1.281	0.0000	500	20.0	-1.3	35.0
Pyrene	Ave	1.138	0.9796	0.0000	500	20.0	-13.9	35.0
Benzo[a]anthracene	LinF	1.279	1.089	0.0000	200	20.0	-3.7	35.0
Chrysene	Ave	1.119	0.9569	0.0000	200	20.0	-14.5	35.0
Benzo[b]fluoranthene	Ave	1.010	0.9917	0.0000	200	20.0	-1.8	35.0
Benzo[k]fluoranthene	Ave	1.143	1.000	0.0000	200	20.0	-12.5	35.0
Benzo[a]pyrene	Ave	1.044	0.8988	0.0000	200	20.0	-13.9	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8637	0.0000	200	20.0	-13.6	35.0
Dibenz(a,h)anthracene	Lin	1.014	0.9353	0.0000	200	20.0	-6.5	35.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9212	0.0000	500	20.0	-5.9	35.0
o-Terphenyl	Lin	0.5859	0.5690	0.0000	17.9	20.0	-10.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11010.D
Lab Smp Id: ICV-1448440
Inj Date : 11-APR-2013 14:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.674	3.675	(1.000)	273342	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	204687	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	380421	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	108232	17.8704	17.8703
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	501991	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	491170	40.0000	
2 Naphthalene	128	3.686	3.687	(1.003)	132124	17.8815	17.8815
3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	96442	19.7889	19.7889
4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	92254	19.5465	19.5464
5 Acenaphthylene	152	4.674	4.675	(0.981)	163781	18.8832	18.8832
7 Acenaphthene	154	4.780	4.781	(1.004)	92455	17.6882	17.6882
9 Fluorene	166	5.098	5.104	(1.070)	132282	19.8871	19.8871
11 Phenanthrene	178	5.721	5.722	(1.003)	201336	18.1160	18.1159
12 Anthracene	178	5.757	5.757	(1.009)	210753	19.0830	19.0829
13 Carbazole	167	5.863	5.863	(1.028)	190681	18.5382	18.5381
15 Fluoranthene	202	6.551	6.557	(1.148)	243606	19.7397	19.7396
16 Pyrene	202	6.721	6.722	(0.880)	245865	17.2161	17.2160

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	273405	19.2602	19.2602
19 Chrysene	228	7.662	7.663	(1.003)	240185	17.1039	17.1038
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	243541	19.6314	19.6313
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	245569	17.4935	17.4935
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	220738	17.2134	17.2134
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	212104	17.2880	17.2879(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.130)	229693	18.7094	18.7094
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	226235	18.8222	18.8221

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11010.D

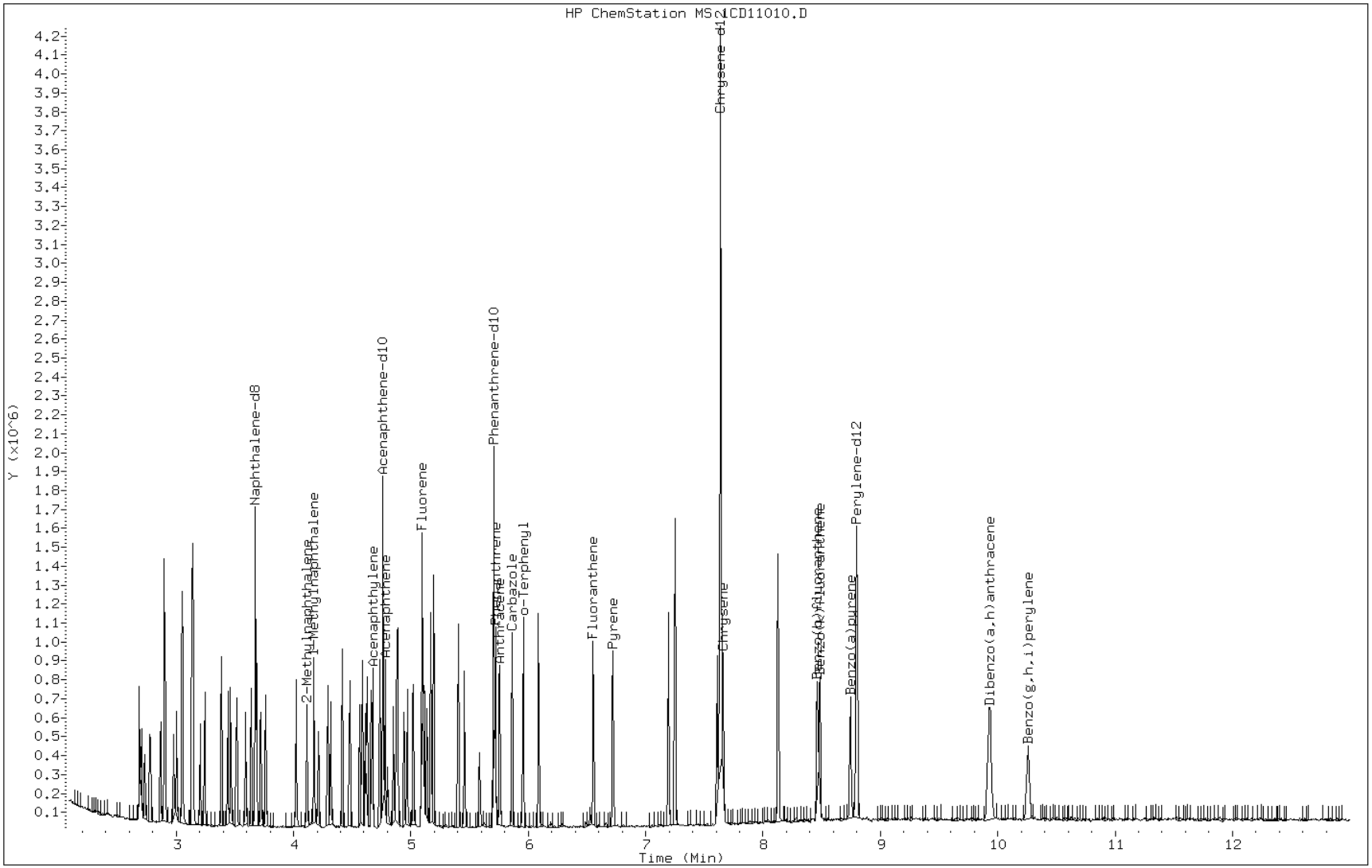
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CD11010.D
Inj. Date and Time: 11-APR-2013 14:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

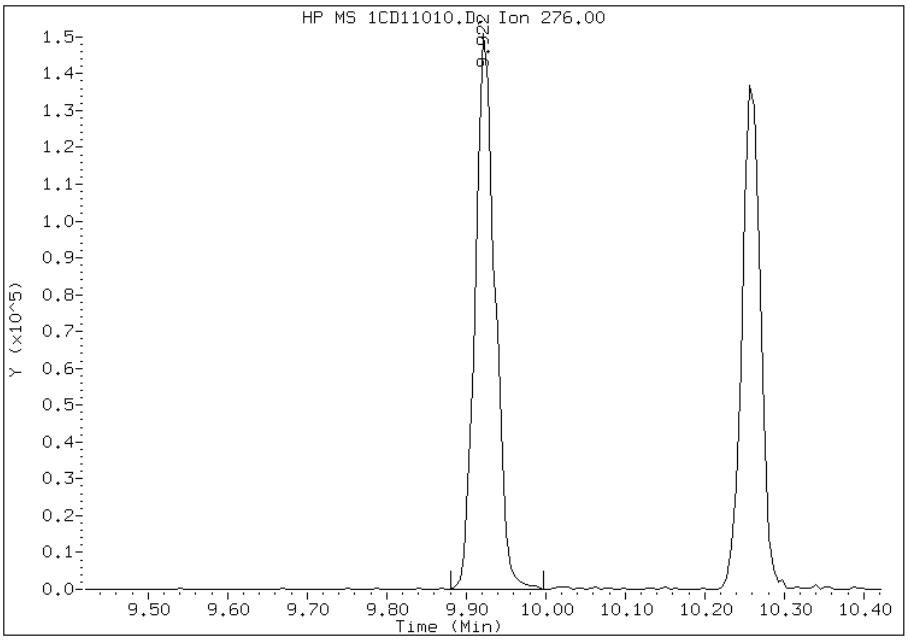
Processing Integration Results

RT: 9.92

Response: 260276

Amount: 21

Conc: 21



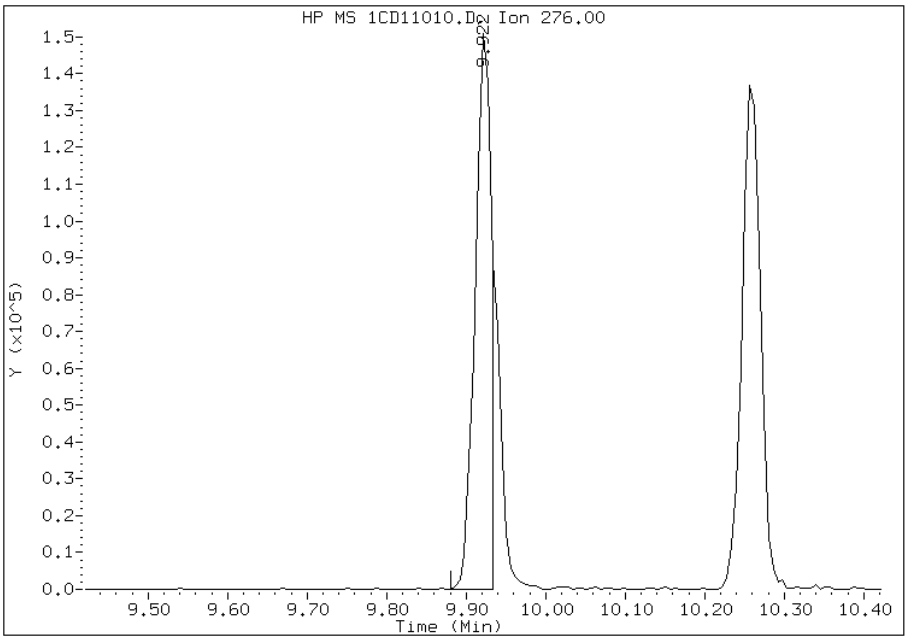
Manual Integration Results

RT: 9.92

Response: 212104

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:46
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab Sample ID: CCVIS 660-136605/3 Calibration Date: 04/18/2013 12:01

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD18003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.029	0.0000	2000	20.0	-4.8	20.0
2-Methylnaphthalene	Lin	0.6730	0.6406	0.0000	2000	20.0	-10.1	20.0
1-Methylnaphthalene	Ave	0.6907	0.6354	0.0000	2000	20.0	-8.0	20.0
Acenaphthylene	Ave	1.695	1.828	0.0000	1000	20.0	7.8	20.0
Acenaphthene	Ave	1.021	1.053	0.0000	2000	20.0	3.1	20.0
Fluorene	Ave	1.300	1.344	0.0000	2000	20.0	3.4	20.0
Phenanthrene	Qua	1.293	1.171	0.0000	500	20.0	0.3	20.0
Anthracene	Ave	1.161	1.113	0.0000	200	20.0	-4.2	20.0
Carbazole	Ave	1.082	1.063	0.0000	1000	20.0	-1.7	20.0
Fluoranthene	Ave	1.298	1.310	0.0000	500	20.0	1.0	20.0
Pyrene	Ave	1.138	1.108	0.0000	500	20.0	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.097	0.0000	200	20.0	-3.0	20.0
Chrysene	Ave	1.119	1.069	0.0000	200	20.0	-4.5	20.0
Benzo[b]fluoranthene	Ave	1.010	1.048	0.0000	200	20.0	3.7	20.0
Benzo[k]fluoranthene	Ave	1.143	1.092	0.0000	200	20.0	-4.5	20.0
Benzo[a]pyrene	Ave	1.044	1.061	0.0000	200	20.0	1.6	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8961	0.0000	200	20.0	-10.4	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9062	0.0000	200	20.0	-9.3	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9357	0.0000	500	20.0	-4.4	20.0
o-Terphenyl	Lin	0.5859	0.6107	0.0000	19.1	20.0	-4.4	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 18-APR-2013 12:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m
Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	3.663	3.663	(1.000)	223132	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.745	(1.000)	151077	40.0000	
*	10 Phenanthrene-d10	188	5.692	5.692	(1.000)	296248	40.0000	
$	14 o-Terphenyl	230	5.945	5.945	(1.044)	90453	20.0000	19.1278
*	18 Chrysene-d12	240	7.627	7.627	(1.000)	379503	40.0000	
*	23 Perylene-d12	264	8.780	8.780	(1.000)	385868	40.0000	
	2 Naphthalene	128	3.674	3.674	(1.003)	114843	20.0000	19.0402
	3 2-Methylnaphthalene	142	4.098	4.098	(1.119)	71469	20.0000	17.9897
	4 1-Methylnaphthalene	142	4.163	4.163	(1.136)	70889	20.0000	18.3995
	5 Acenaphthylene	152	4.663	4.663	(0.983)	138065	20.0000	21.5669
	7 Acenaphthene	154	4.769	4.769	(1.005)	79519	20.0000	20.6118
	9 Fluorene	166	5.086	5.086	(1.072)	101533	20.0000	20.6809
	11 Phenanthrene	178	5.704	5.704	(1.002)	173464	20.0000	20.0554
	12 Anthracene	178	5.739	5.739	(1.008)	164793	20.0000	19.1610
	13 Carbazole	167	5.851	5.851	(1.028)	157478	20.0000	19.6602
	15 Fluoranthene	202	6.539	6.539	(1.149)	194091	20.0000	20.1960
	16 Pyrene	202	6.704	6.704	(0.879)	210266	20.0000	19.4754
	17 Benzo(a)anthracene	228	7.615	7.615	(0.998)	208131	20.0000	19.3942
	19 Chrysene	228	7.645	7.645	(1.002)	202797	20.0000	19.1025
	20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	202186	20.0000	20.7454
	21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	210620	20.0000	19.0983
	22 Benzo(a)pyrene	252	8.727	8.727	(0.994)	204640	20.0000	20.3130
	24 Indeno(1,2,3-cd)pyrene	276	9.898	9.898	(1.127)	172885	20.0000	17.9128(M)
	25 Dibenzo(a,h)anthracene	278	9.909	9.909	(1.129)	174831	20.0000	18.1408
	26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	180525	20.0000	19.1179

QC Flag Legend

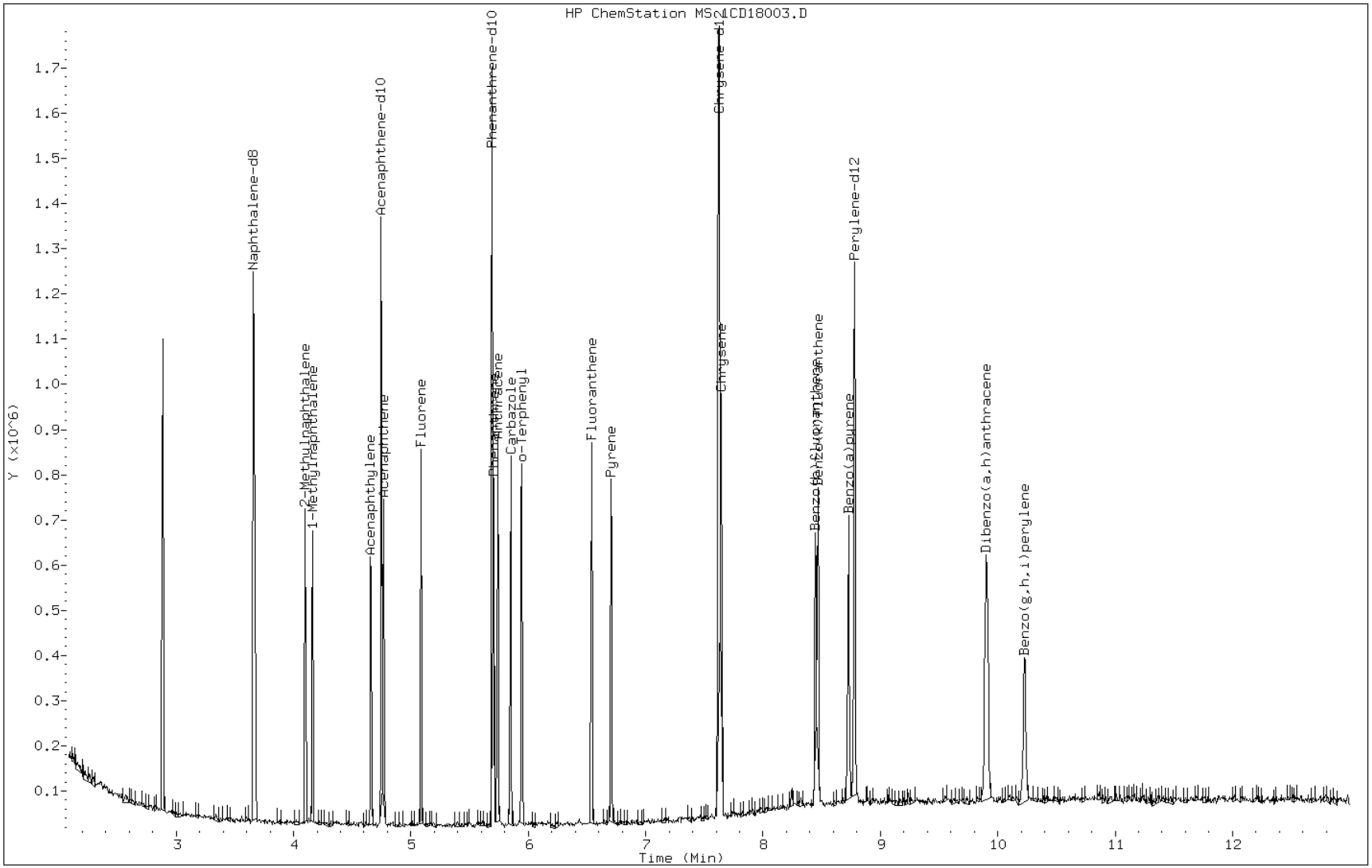
M - Compound response manually integrated.

Data File: 1CD18003.D

Date: 18-APR-2013 12:01

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD18003.D
Inj. Date and Time: 18-APR-2013 12:01
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

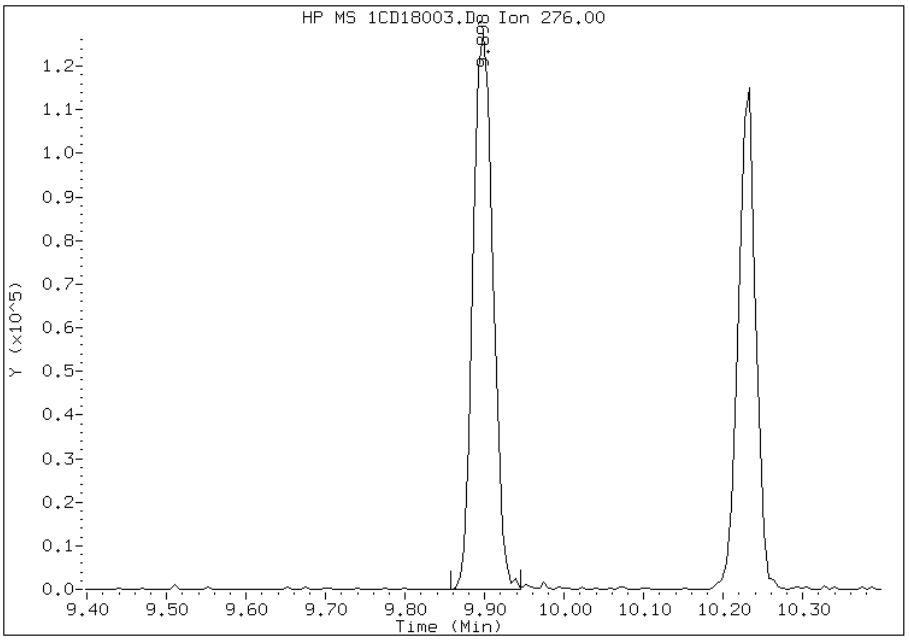
Processing Integration Results

RT: 9.90

Response: 221904

Amount: 23

Conc: 23



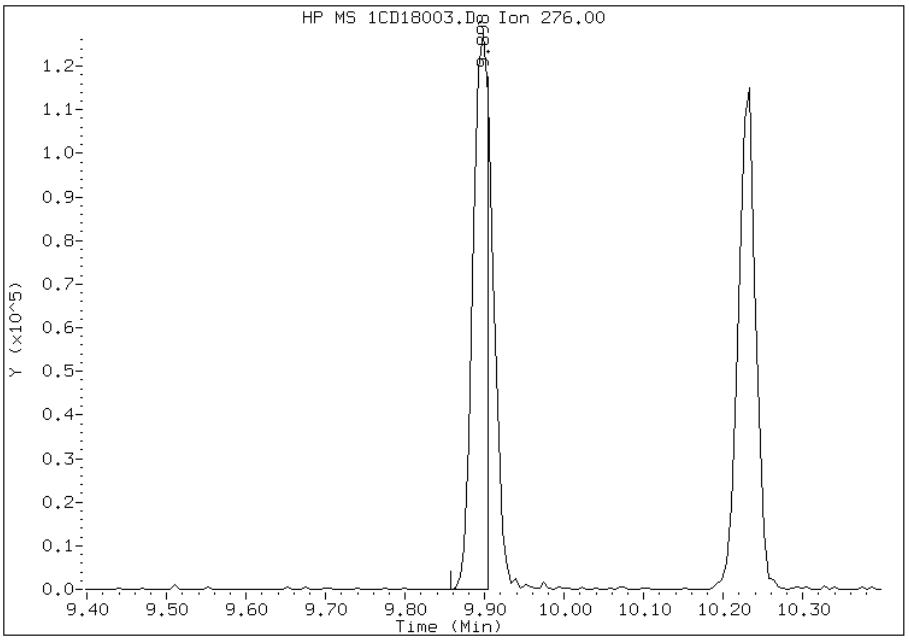
Manual Integration Results

RT: 9.90

Response: 172885

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 12:15
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab Sample ID: CCVIS 660-136698/3 Calibration Date: 04/22/2013 11:50

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.007	0.0000	18600	20000	-6.9	20.0
2-Methylnaphthalene	Lin	0.6730	0.6342	0.0000	17800	20000	-10.9	20.0
1-Methylnaphthalene	Ave	0.6907	0.6422	0.0000	18600	20000	-7.0	20.0
Acenaphthylene	Ave	1.695	1.674	0.0000	19800	20000	-1.2	20.0
Acenaphthene	Ave	1.021	1.163	0.0000	22800	20000	13.9	20.0
Fluorene	Ave	1.300	1.393	0.0000	21400	20000	7.2	20.0
Phenanthrene	Qua	1.293	1.146	0.0000	19600	20000	-1.9	20.0
Anthracene	Ave	1.161	1.220	0.0000	21000	20000	5.1	20.0
Carbazole	Ave	1.082	1.078	0.0000	19900	20000	-0.3	20.0
Fluoranthene	Ave	1.298	1.216	0.0000	18700	20000	-6.3	20.0
Pyrene	Ave	1.138	1.108	0.0000	19500	20000	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.135	0.0000	20100	20000	0.4	20.0
Chrysene	Ave	1.119	1.052	0.0000	18800	20000	-6.0	20.0
Benzo[b]fluoranthene	Ave	1.010	1.133	0.0000	22400	20000	12.1	20.0
Benzo[k]fluoranthene	Ave	1.143	1.026	0.0000	17900	20000	-10.3	20.0
Benzo[a]pyrene	Ave	1.044	1.083	0.0000	20700	20000	3.7	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9053	0.0000	18100	20000	-9.6	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9399	0.0000	18800	20000	-6.0	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9293	0.0000	19000	20000	-5.1	20.0
o-Terphenyl	Lin	0.5859	0.5783	0.0000	18200	20000	-9.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 22-APR-2013 11:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	3.651	3.651	(1.000)	177233	40.0000	(H)
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	115325	40.0000	
* 10	Phenanthrene-d10	188	5.680	5.680	(1.000)	215585	40.0000	(H)
$ 14	o-Terphenyl	230	5.933	5.933	(1.045)	62335	20.0000	18.1504
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	268224	40.0000	(H)
* 23	Perylene-d12	264	8.762	8.762	(1.000)	275000	40.0000	(H)
2	Naphthalene	128	3.663	3.663	(1.003)	89200	20.0000	18.6186
3	2-Methylnaphthalene	142	4.092	4.092	(1.121)	56201	20.0000	17.8129(H)
4	1-Methylnaphthalene	142	4.151	4.151	(1.137)	56906	20.0000	18.5953(H)
5	Acenaphthylene	152	4.651	4.651	(0.981)	96546	20.0000	19.7566
7	Acenaphthene	154	4.757	4.757	(1.004)	67059	20.0000	22.7707
9	Fluorene	166	5.080	5.080	(1.072)	80335	20.0000	21.4359
11	Phenanthrene	178	5.698	5.698	(1.003)	123552	20.0000	19.6267(H)
12	Anthracene	178	5.733	5.733	(1.009)	131526	20.0000	21.0150(H)
13	Carbazole	167	5.839	5.839	(1.028)	116223	20.0000	19.9387(H)
15	Fluoranthene	202	6.527	6.527	(1.149)	131029	20.0000	18.7354(H)
16	Pyrene	202	6.692	6.692	(0.879)	148578	20.0000	19.4711(H)
17	Benzo(a)anthracene	228	7.603	7.603	(0.998)	152236	20.0000	20.0710(H)
19	Chrysene	228	7.633	7.633	(1.002)	141105	20.0000	18.8057
20	Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	155786	20.0000	22.4288(H)
21	Benzo(k)fluoranthene	252	8.456	8.456	(0.965)	141020	20.0000	17.9425(H)
22	Benzo(a)pyrene	252	8.709	8.709	(0.994)	148881	20.0000	20.7361(H)
24	Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	124473	20.0000	18.0896(MH)
25	Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	129235	20.0000	18.7992(H)
26	Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	127780	20.0000	18.9876(H)

QC Flag Legend

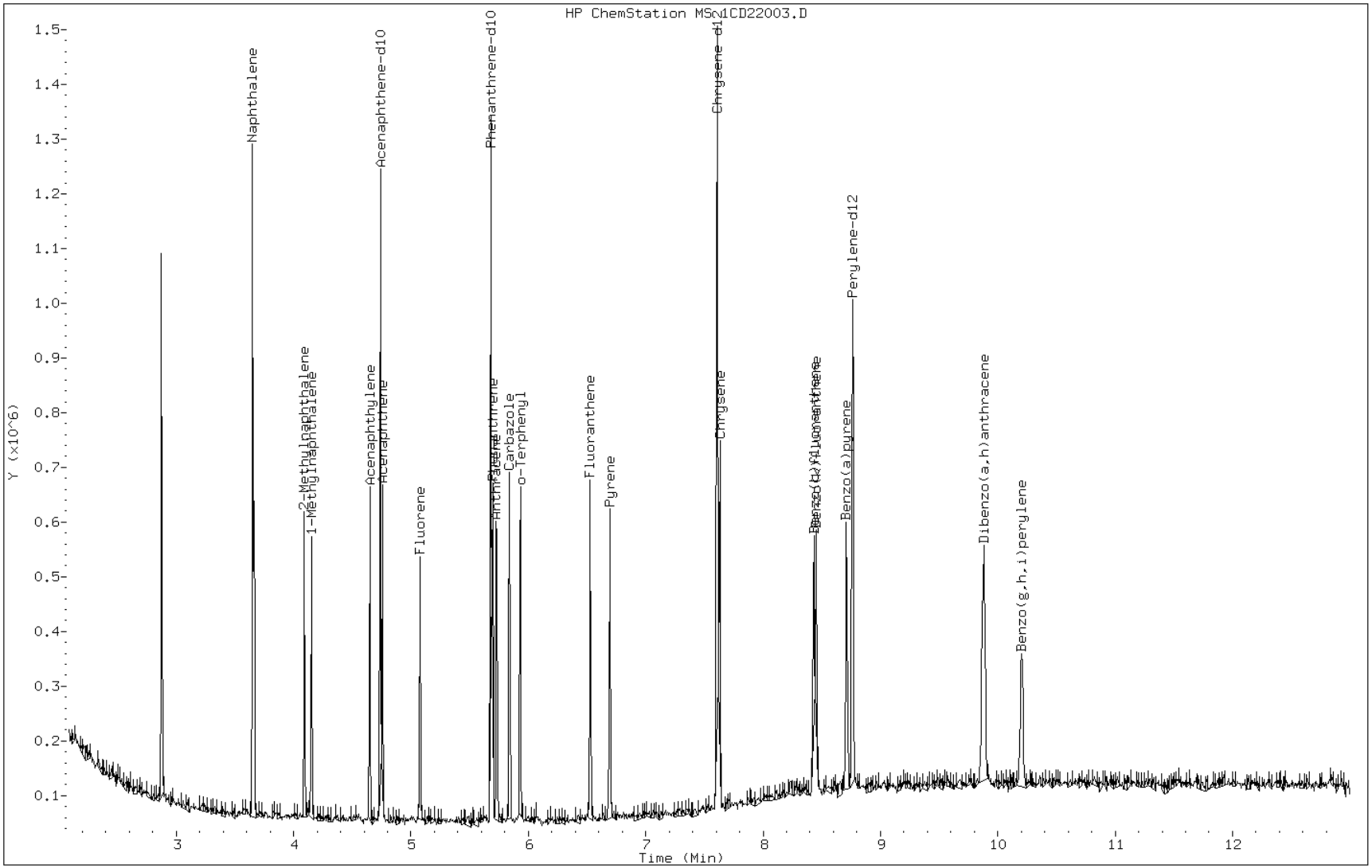
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22003.D

Date: 22-APR-2013 11:50

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD22003.D
Inj. Date and Time: 22-APR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

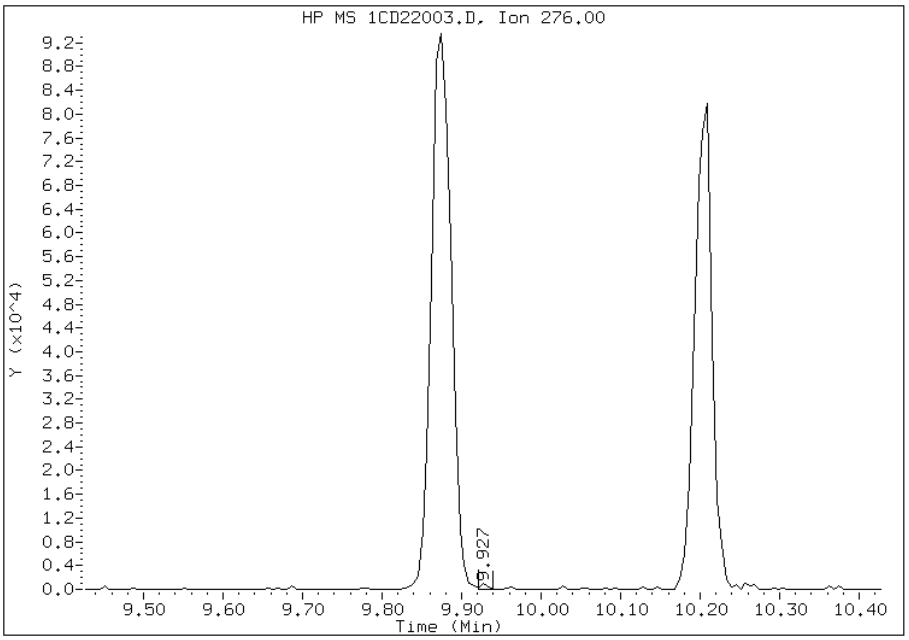
Processing Integration Results

RT: 9.93

Response: 617

Amount: 1

Conc: 1



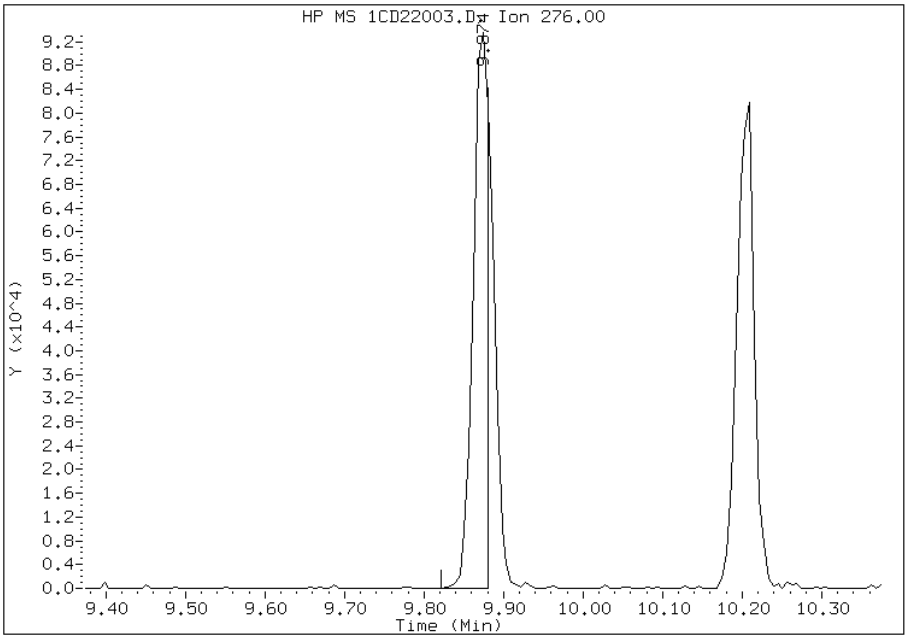
Manual Integration Results

RT: 9.87

Response: 124473

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Lab Sample ID: ICV 660-136792/15 Calibration Date: 04/24/2013 16:06

Instrument ID: BSMC5973 Calib Start Date: 04/24/2013 13:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/24/2013 15:47

Lab File ID: 1CD24014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.098	0.9939	0.0000	18500	20000	-7.6	35.0
2-Methylnaphthalene	Qua	0.6360	0.6687	0.0000	19000	20000	-4.8	35.0
1-Methylnaphthalene	Qua	0.7017	0.6644	0.0000	20100	20000	0.6	35.0
Acenaphthylene	Qua	2.140	1.745	0.0000	17300	20000	-13.5	35.0
Acenaphthene	Lin	1.041	1.047	0.0000	18100	20000	-9.5	35.0
Fluorene	Lin	1.213	1.264	0.0000	18400	20000	-8.0	35.0
Phenanthrene	Ave	1.095	1.088	0.0000	19900	20000	-0.7	35.0
Anthracene	Lin	1.235	1.214	0.0000	20400	20000	1.9	35.0
Carbazole	Ave	1.101	1.068	0.0000	19400	20000	-3.0	35.0
Fluoranthene	Lin	1.232	1.320	0.0000	19900	20000	-0.3	35.0
Pyrene	Ave	1.181	1.084	0.0000	18400	20000	-8.2	35.0
Benzo[a]anthracene	Qua	1.351	1.168	0.0000	21500	20000	7.5	35.0
Chrysene	Ave	1.142	1.018	0.0000	17800	20000	-10.9	35.0
Benzo[b]fluoranthene	Ave	1.106	1.167	0.0000	21100	20000	5.5	35.0
Benzo[k]fluoranthene	Ave	1.076	1.015	0.0000	18900	20000	-5.7	35.0
Benzo[a]pyrene	Lin	0.9394	0.9293	0.0000	17200	20000	-14.2	35.0
Indeno[1,2,3-cd]pyrene	Lin	0.9578	0.9419	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9699	1.013	0.0000	20900	20000	4.4	35.0
Benzo[g,h,i]perylene	Ave	1.010	0.9900	0.0000	19600	20000	-2.0	35.0
o-Terphenyl	Ave	0.5808	0.5769	0.0000	19900	20000	-0.7	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24014.D
Lab Smp Id: ICV-1448440
Inj Date : 24-APR-2013 16:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	3.633	3.634	(1.000)	178260	40.0000	
*	6 Acenaphthene-d10	164	4.721	4.722	(1.000)	107629	40.0000	
*	10 Phenanthrene-d10	188	5.662	5.663	(1.000)	194163	40.0000	
$	14 o-Terphenyl	230	5.909	5.910	(1.044)	56007	19.8674	19.8674
*	18 Chrysene-d12	240	7.586	7.592	(1.000)	234167	40.0000	
*	23 Perylene-d12	264	8.733	8.733	(1.000)	247483	40.0000	
	2 Naphthalene	128	3.645	3.646	(1.003)	88589	18.4847	18.4846
	3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	59598	19.0345	19.0344
	4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	59219	20.1145	20.1145
	5 Acenaphthylene	152	4.633	4.634	(0.981)	93910	17.3093	17.3093
	7 Acenaphthene	154	4.739	4.740	(1.004)	56326	18.0986	18.0986
	9 Fluorene	166	5.057	5.057	(1.071)	68048	18.4020	18.4019
	11 Phenanthrene	178	5.674	5.675	(1.002)	105627	19.8687	19.8687
	12 Anthracene	178	5.709	5.710	(1.008)	117820	20.3857	20.3856
	13 Carbazole	167	5.821	5.822	(1.028)	103644	19.3960	19.3960
	15 Fluoranthene	202	6.504	6.504	(1.149)	128171	19.9448	19.9447
	16 Pyrene	202	6.668	6.675	(0.879)	126931	18.3539	18.3538

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	136717	21.4934	21.4933
19 Chrysene	228	7.609	7.610	(1.003)	119178	17.8230	17.8229
20 Benzo(b)fluoranthene	252	8.403	8.410	(0.962)	144465	21.1064	21.1063
21 Benzo(k)fluoranthene	252	8.421	8.428	(0.964)	125583	18.8568	18.8568
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	114991	17.1505	17.1504
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.833	(1.125)	116552	17.5572	17.5571(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	125342	20.8864	20.8864
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	122506	19.6045	19.6045

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24014.D

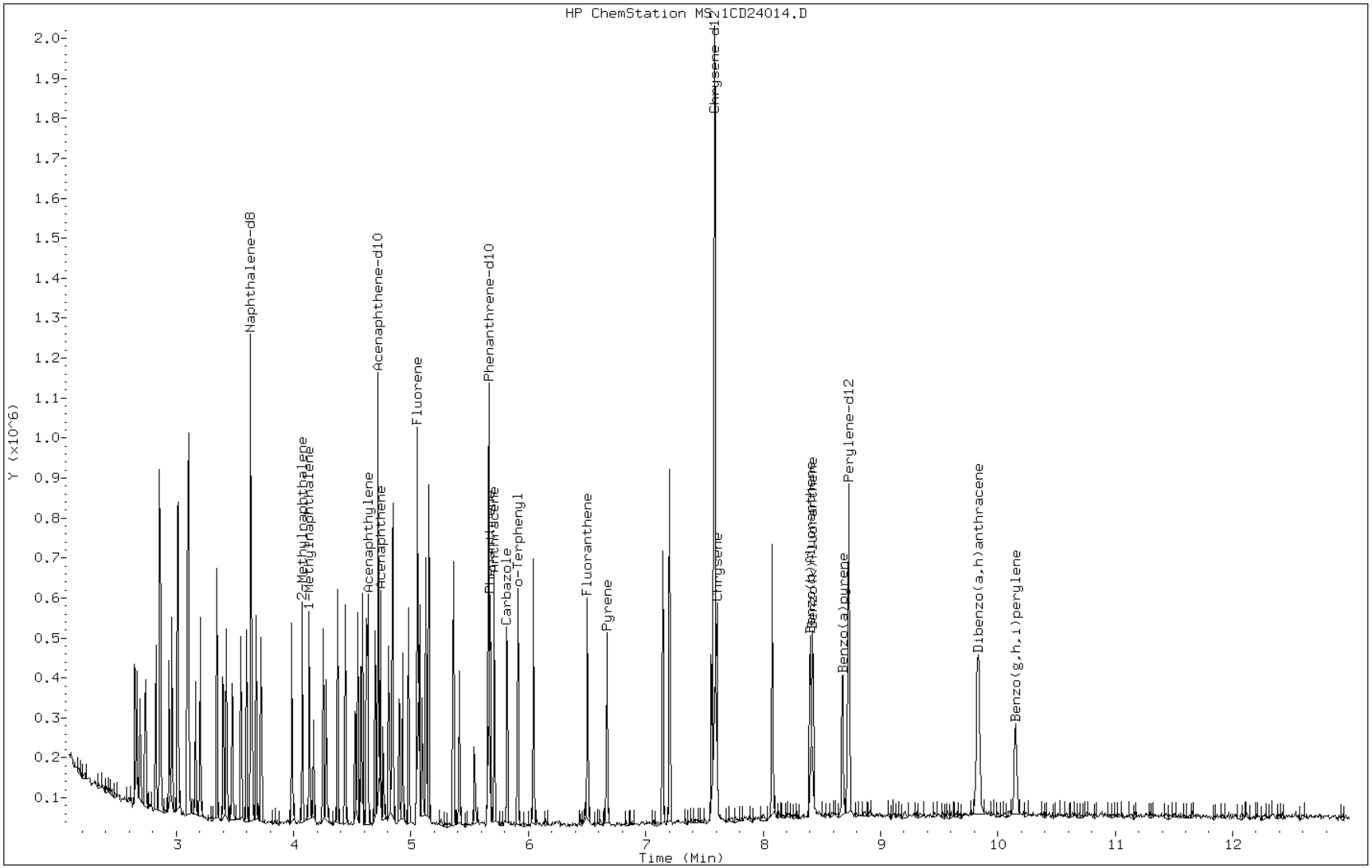
Date: 24-APR-2013 16:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CD24014.D
Inj. Date and Time: 24-APR-2013 16:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

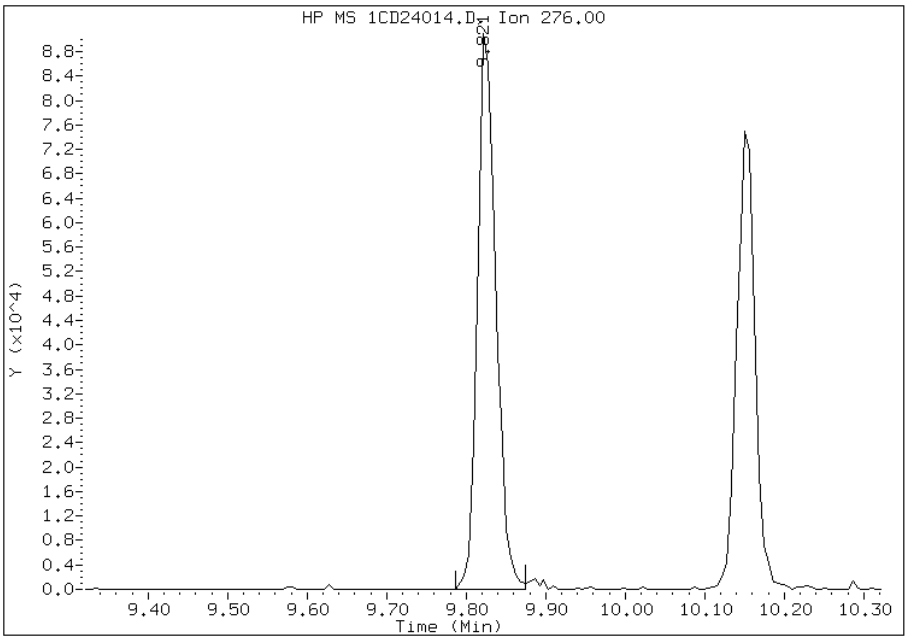
Processing Integration Results

RT: 9.82

Response: 145625

Amount: 22

Conc: 22



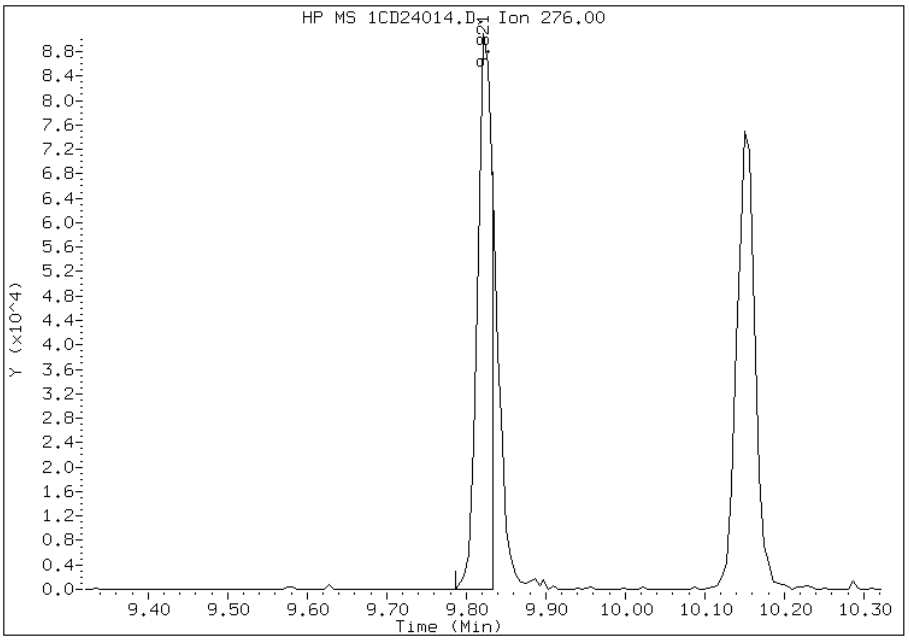
Manual Integration Results

RT: 9.82

Response: 116552

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:35
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 11-APR-2013 11:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

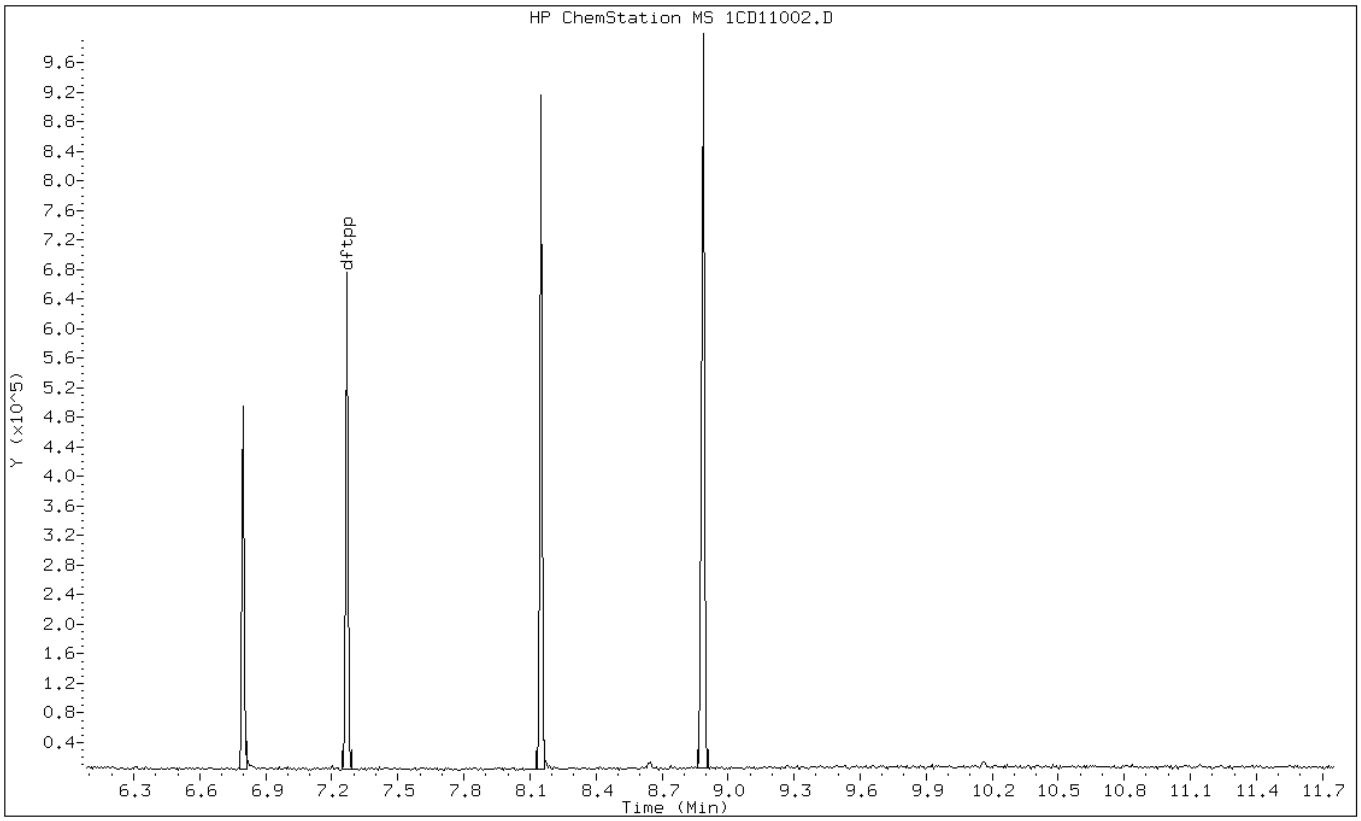
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.269	7.469	-0.200	198	54472			50.00- 0.00	100.00
7.269	7.469	-0.200	51	21074			10.00- 80.00	38.69
7.269	7.469	-0.200	68	353			0.00- 2.00	1.33
7.269	7.469	-0.200	69	26600			0.00- 0.00	48.83
7.269	7.469	-0.200	70	132			0.00- 2.00	0.50
7.269	7.469	-0.200	127	25024			10.00- 80.00	45.94
7.269	7.469	-0.200	197	448			0.00- 2.00	0.82
7.269	7.469	-0.200	442	41796			50.00- 0.00	76.73
7.269	7.469	-0.200	199	3165			5.00- 9.00	5.81
7.269	7.469	-0.200	275	11356			10.00- 60.00	20.85
7.269	7.469	-0.200	365	2771			1.00- 0.00	5.09
7.269	7.469	-0.200	441	5680			0.01- 99.99	64.97
7.269	7.469	-0.200	443	8743			15.00- 24.00	20.92

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



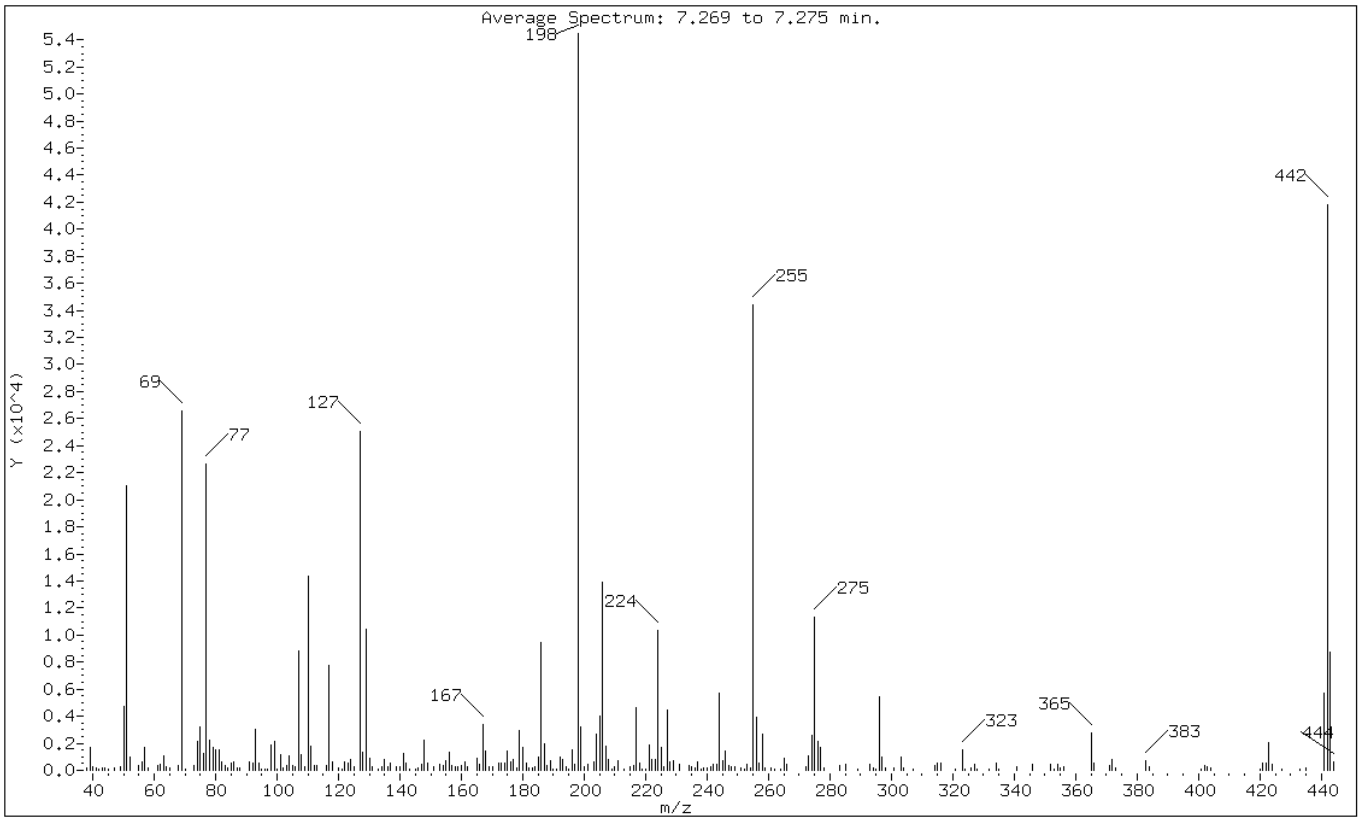
Data File: 1CD11002.D

Date: 11-APR-2013 11:38

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	38.69
68	Less than 2.00% of mass 69	0.65 (1.33)
69	Mass 69 relative abundance	48.83
70	Less than 2.00% of mass 69	0.24 (0.50)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.82
442	Greater than 50.00% of mass 198	76.73
199	5.00 - 9.00% of mass 198	5.81
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.43
443	15.00 - 24.00% of mass 442	16.05 (20.92)

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Spectrum: Average Spectrum: 7.269 to 7.275 min.
Location of Maximum: 198.00
Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	141	117.00	7792	192.00	941	266.00	463
39.00	1700	118.00	633	193.00	768	272.00	261
40.00	309	120.00	172	194.00	248	273.00	1086
41.00	212	121.00	81	195.00	118	274.00	2545
42.00	101	122.00	618	196.00	1486	275.00	11356
43.00	189	123.00	527	197.00	448	276.00	2162
44.00	218	124.00	760	198.00	54472	277.00	1668
45.00	75	125.00	297	199.00	3165	278.00	173
47.00	138	127.00	25024	200.00	261	283.00	397
49.00	296	128.00	1379	201.00	429	285.00	405
50.00	4728	129.00	10387	203.00	647	289.00	86
51.00	21072	130.00	905	204.00	2694	293.00	463
52.00	978	131.00	241	205.00	4012	294.00	163
55.00	372	133.00	76	206.00	13898	295.00	117
56.00	660	134.00	248	207.00	1801	296.00	5458
57.00	1715	135.00	839	208.00	802	297.00	985
58.00	143	136.00	263	209.00	108	298.00	186
61.00	354	137.00	547	210.00	311	301.00	140
62.00	440	139.00	248	211.00	692	303.00	973
63.00	1027	140.00	294	213.00	120	304.00	144
64.00	238	141.00	1264	215.00	302	307.00	75
65.00	219	142.00	522	216.00	382	314.00	371
68.00	353	143.00	119	217.00	4620	315.00	576
69.00	26600	145.00	86	218.00	501	316.00	571
70.00	132	146.00	154	219.00	78	321.00	122
73.00	387	147.00	484	220.00	83	323.00	1548
74.00	2154	148.00	2234	221.00	1909	324.00	106
75.00	3222	149.00	536	222.00	834	326.00	171
76.00	1231	151.00	277	223.00	833	327.00	475
77.00	22680	153.00	451	224.00	10305	328.00	129
78.00	2251	154.00	375	225.00	1699	332.00	90
79.00	1660	155.00	715	226.00	238	334.00	515
80.00	1523	156.00	1323	227.00	4427	335.00	88
81.00	1506	157.00	341	228.00	659	341.00	287
82.00	620	158.00	298	229.00	722	346.00	477
83.00	331	159.00	250	231.00	478	352.00	473
84.00	218	160.00	328	234.00	330	353.00	129
85.00	517	161.00	632	235.00	268	354.00	476
86.00	662	162.00	296	236.00	196	355.00	177
87.00	149	165.00	863	237.00	643	356.00	231

88.00	168	166.00	456	238.00	130	365.00	2771
91.00	638	167.00	3403	239.00	186	366.00	577
92.00	550	168.00	1471	240.00	203	371.00	326
93.00	3050	169.00	283	241.00	259	372.00	767
94.00	543	170.00	226	242.00	421	373.00	136
95.00	78	172.00	552	243.00	420	383.00	710
96.00	80	173.00	512	244.00	5690	384.00	290
97.00	97	174.00	492	245.00	728	401.00	123
98.00	1840	175.00	1453	246.00	1454	402.00	322
99.00	2133	176.00	612	247.00	328	403.00	283
100.00	97	177.00	818	248.00	255	404.00	187
101.00	1184	178.00	192	249.00	296	420.00	101
102.00	161	179.00	2908	251.00	152	421.00	556
103.00	325	180.00	1670	252.00	78	422.00	509
104.00	1088	181.00	547	253.00	422	423.00	2034
105.00	339	182.00	219	254.00	220	424.00	428
106.00	305	183.00	208	255.00	34392	427.00	77
107.00	8863	184.00	269	256.00	3905	433.00	77
108.00	1145	185.00	954	257.00	538	435.00	142
109.00	309	186.00	9451	258.00	2671	441.00	5680
110.00	14323	187.00	1971	259.00	192	442.00	41792
111.00	1814	188.00	326	261.00	196	443.00	8743
112.00	372	189.00	673	262.00	109	444.00	645
113.00	319	190.00	129	264.00	98		
116.00	324	191.00	101	265.00	936		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2013 11:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

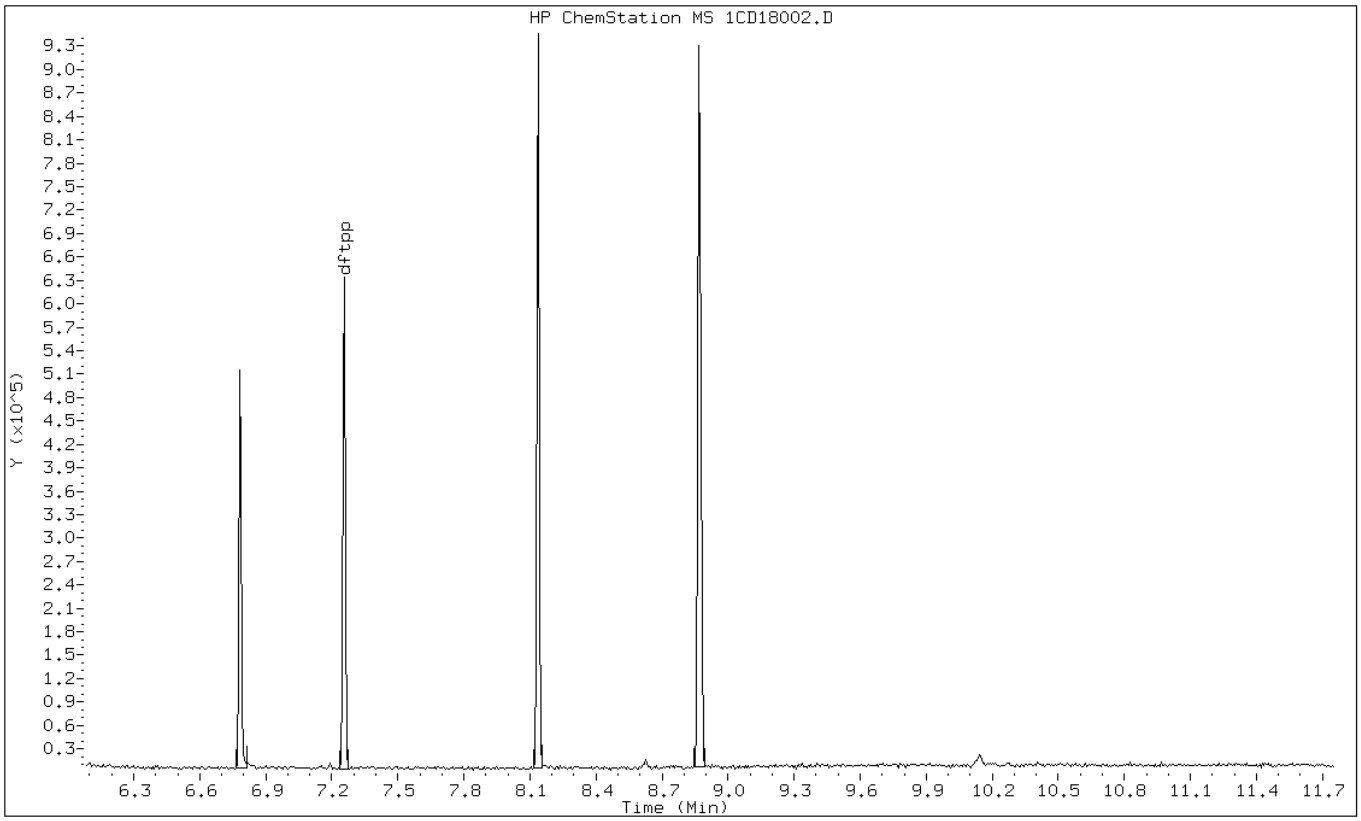
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.257	7.469	-0.212	198	60488			50.00- 0.00	100.00
7.257	7.469	-0.212	51	28016			10.00- 80.00	46.32
7.257	7.469	-0.212	68	526			0.00- 2.00	1.56
7.257	7.469	-0.212	69	33808			0.00- 0.00	55.89
7.257	7.469	-0.212	70	295			0.00- 2.00	0.87
7.257	7.469	-0.212	127	32152			10.00- 80.00	53.15
7.257	7.469	-0.212	197	811			0.00- 2.00	1.34
7.257	7.469	-0.212	442	47872			50.00- 0.00	79.14
7.257	7.469	-0.212	199	4271			5.00- 9.00	7.06
7.257	7.469	-0.212	275	13932			10.00- 60.00	23.03
7.257	7.469	-0.212	365	3272			1.00- 0.00	5.41
7.257	7.469	-0.212	441	6460			0.01- 99.99	77.47
7.257	7.469	-0.212	443	8339			15.00- 24.00	17.42

Data File: 1CD18002.D

Date: 18-APR-2013 11:44

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



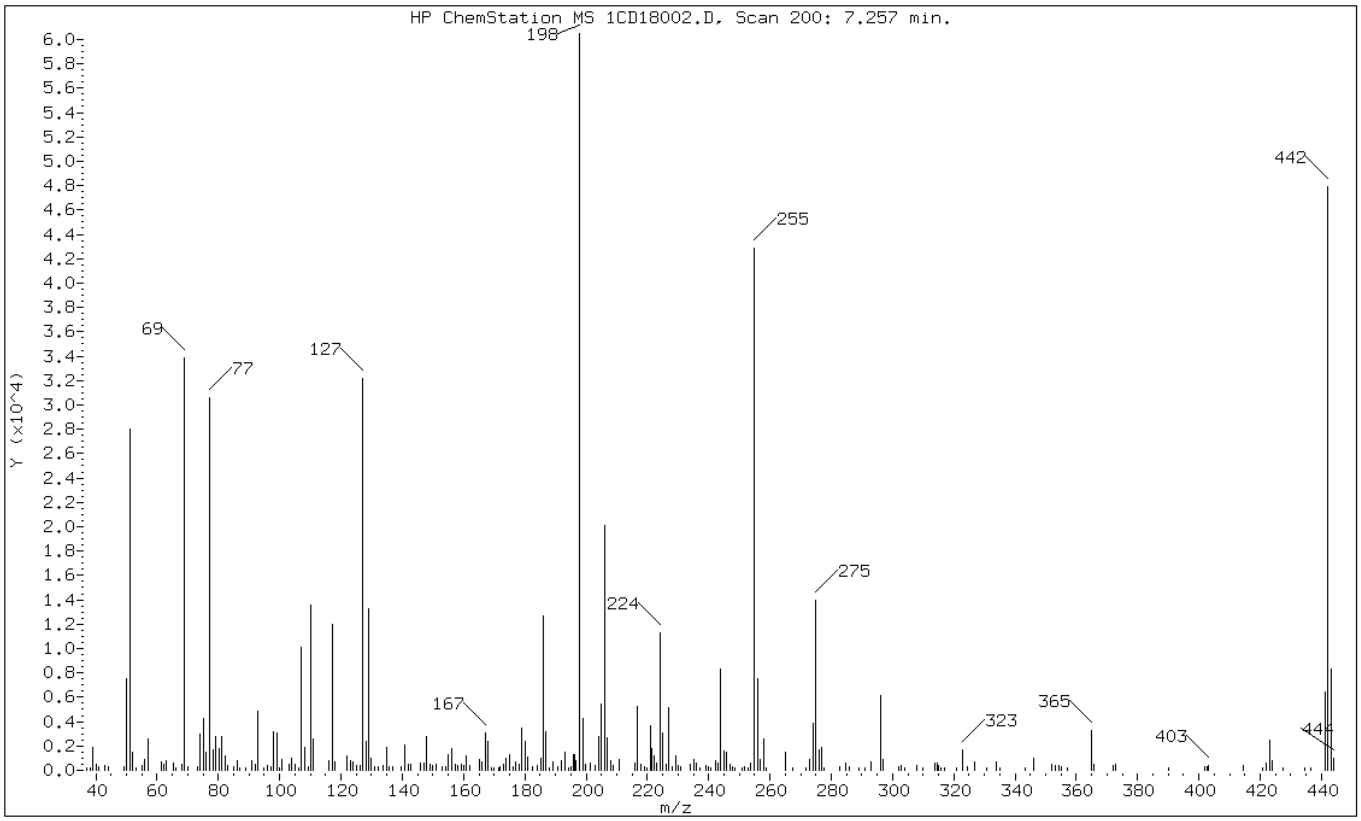
Data File: 1CD18002.D

Date: 18-APR-2013 11:44

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	46.32
68	Less than 2.00% of mass 69	0.87 (1.56)
69	Mass 69 relative abundance	55.89
70	Less than 2.00% of mass 69	0.49 (0.87)
127	10.00 - 80.00% of mass 198	53.15
197	Less than 2.00% of mass 198	1.34
442	Greater than 50.00% of mass 198	79.14
199	5.00 - 9.00% of mass 198	7.06
275	10.00 - 60.00% of mass 198	23.03
365	Greater than 1.00% of mass 198	5.41
441	Present, but less than mass 443	10.68
443	15.00 - 24.00% of mass 442	13.79 (17.42)

Data File: 1CD18002.D

Date: 18-APR-2013 11:44

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18002.D
Spectrum: HP ChemStation MS 1CD18002.D, Scan 200: 7.257 min.
Location of Maximum: 198.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	213	123.00	800	194.10	162	273.00	925
38.10	178	123.90	644	194.90	264	274.00	3878
39.10	1896	125.00	382	195.80	1308	275.00	13932
40.00	476	126.20	411	196.20	1296	276.00	1665
41.10	346	127.00	32152	196.80	811	277.00	1892
43.00	436	128.10	2353	198.00	60488	277.70	173
44.10	249	129.10	13219	198.90	4271	282.90	305
49.00	335	130.00	962	199.90	449	284.90	595
50.10	7560	131.00	274	201.30	568	286.10	295
51.10	28016	132.20	298	203.00	360	289.00	208
52.10	1471	133.90	376	204.00	2747	291.00	177
53.00	230	135.10	1869	205.10	5491	292.90	647
55.10	386	135.80	308	206.00	20096	296.00	6110
56.00	907	136.90	336	207.00	2707	297.00	850
57.00	2593	139.80	254	207.90	835	302.00	343
61.20	716	141.00	2047	208.90	416	303.00	421
62.00	452	141.90	478	211.00	935	303.90	153
63.10	795	142.90	537	216.00	566	308.00	389
65.20	616	145.90	613	216.90	5222	310.00	185
66.00	166	147.00	556	217.90	454	314.00	578
68.10	526	148.00	2799	219.00	287	314.60	566
69.00	33808	149.10	522	219.90	169	315.00	422
70.00	295	150.00	348	220.90	3617	315.90	246
73.00	341	151.10	495	221.60	1796	317.00	212
74.10	2978	152.90	339	222.10	1150	320.80	175
75.10	4237	154.10	260	222.90	633	323.00	1678
76.00	1519	155.10	1314	224.00	11316	324.30	325
77.10	30584	156.10	1786	225.00	3040	326.90	734
78.10	1694	157.30	531	226.20	496	330.90	179
79.10	2819	158.00	358	227.00	5114	334.00	658
80.10	1772	159.10	464	228.10	311	335.10	175
81.10	2737	160.00	358	229.10	1168	343.20	214
82.10	1209	161.00	1168	230.00	365	346.00	941
82.90	351	161.90	403	231.00	255	352.10	536
85.10	294	165.20	903	234.00	543	353.10	388
86.00	773	166.00	650	235.10	864	354.20	386
87.10	179	167.00	3023	236.00	624	355.00	328
89.00	173	168.00	2401	237.00	200	357.10	194
91.00	767	169.10	227	239.20	432	365.00	3272
92.00	514	169.90	206	240.00	279	365.80	481

93.00	4853	171.30	166	240.60	162	372.00	398
94.90	171	171.90	257	242.10	827	373.00	514
95.80	418	173.20	465	243.00	589	390.10	158
97.20	258	174.00	965	244.00	8343	401.80	264
98.10	3164	175.10	1295	245.00	1628	402.80	291
99.00	3053	176.10	325	245.90	1436	403.20	352
100.00	232	176.80	649	246.90	523	414.60	369
100.90	848	178.10	478	247.80	345	420.70	189
102.90	509	178.90	3494	248.60	242	421.90	546
104.00	1029	180.10	2352	251.00	213	423.00	2495
104.90	458	181.10	1097	251.80	278	423.90	819
106.10	224	182.50	324	253.00	216	427.30	179
107.10	10077	184.00	395	253.70	578	434.40	180
108.10	1887	185.20	1028	255.00	42880	436.60	162
109.20	301	186.00	12682	256.00	7539	441.10	6460
110.10	13556	187.00	3153	256.90	856	442.00	47872
111.00	2545	188.10	184	258.00	2599	443.10	8339
116.00	812	189.00	676	258.90	180	444.00	964
117.10	11990	190.80	324	265.00	1491		
118.00	731	192.00	774	267.30	182		
121.90	1211	193.00	1510	271.80	167		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-APR-2013 11:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.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

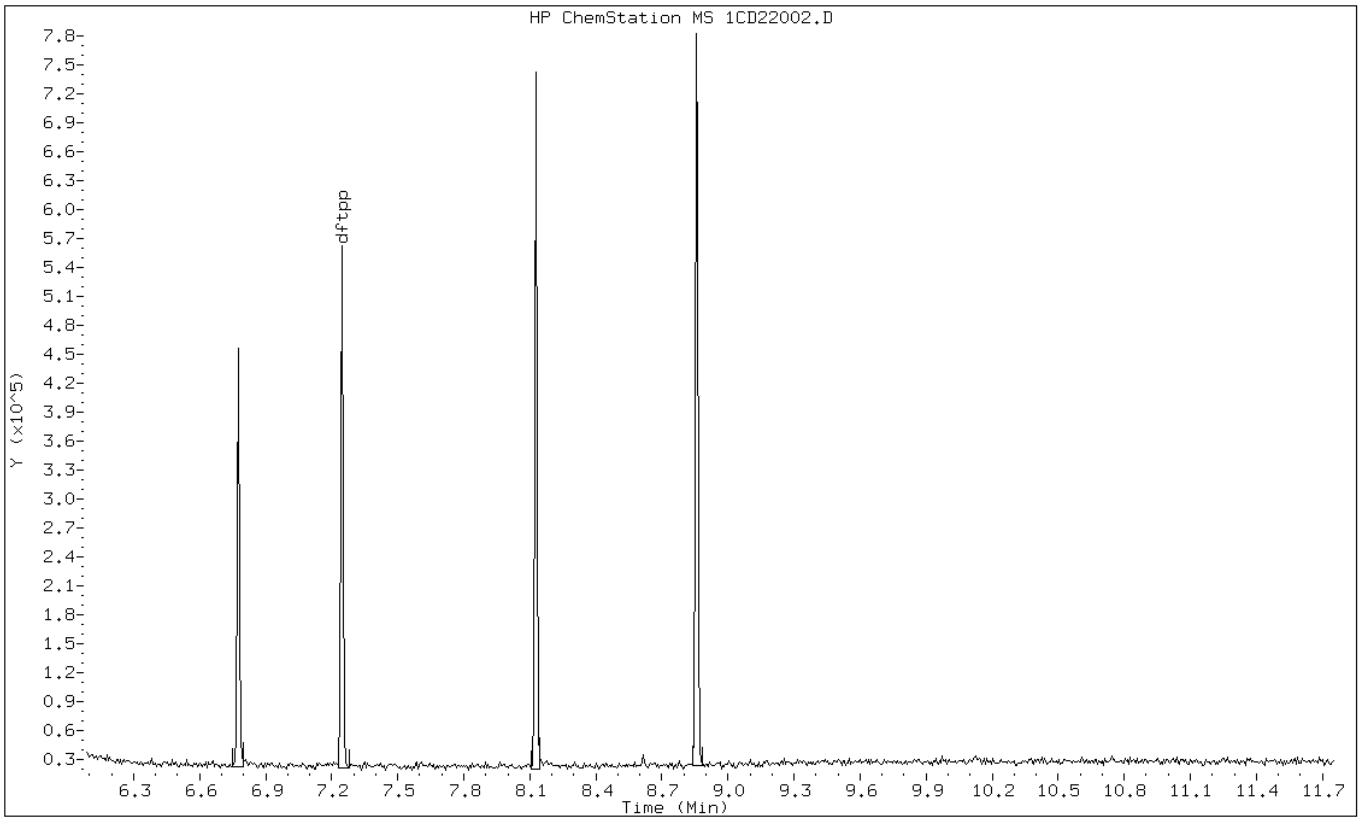
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.245	7.469	-0.224	198	33172			50.00- 0.00	100.00
7.245	7.469	-0.224	51	19866			10.00- 80.00	59.89
7.245	7.469	-0.224	68	380			0.00- 2.00	1.88
7.245	7.469	-0.224	69	20205			0.00- 0.00	60.91
7.245	7.469	-0.224	70	229			0.00- 2.00	1.13
7.245	7.469	-0.224	127	18677			10.00- 80.00	56.30
7.245	7.469	-0.224	197	232			0.00- 2.00	0.70
7.245	7.469	-0.224	442	24156			50.00- 0.00	72.82
7.245	7.469	-0.224	199	2591			5.00- 9.00	7.81
7.245	7.469	-0.224	275	9466			10.00- 60.00	28.54
7.245	7.469	-0.224	365	2299			1.00- 0.00	6.93
7.245	7.469	-0.224	441	3919			0.01- 99.99	77.97
7.245	7.469	-0.224	443	5026			15.00- 24.00	20.81

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



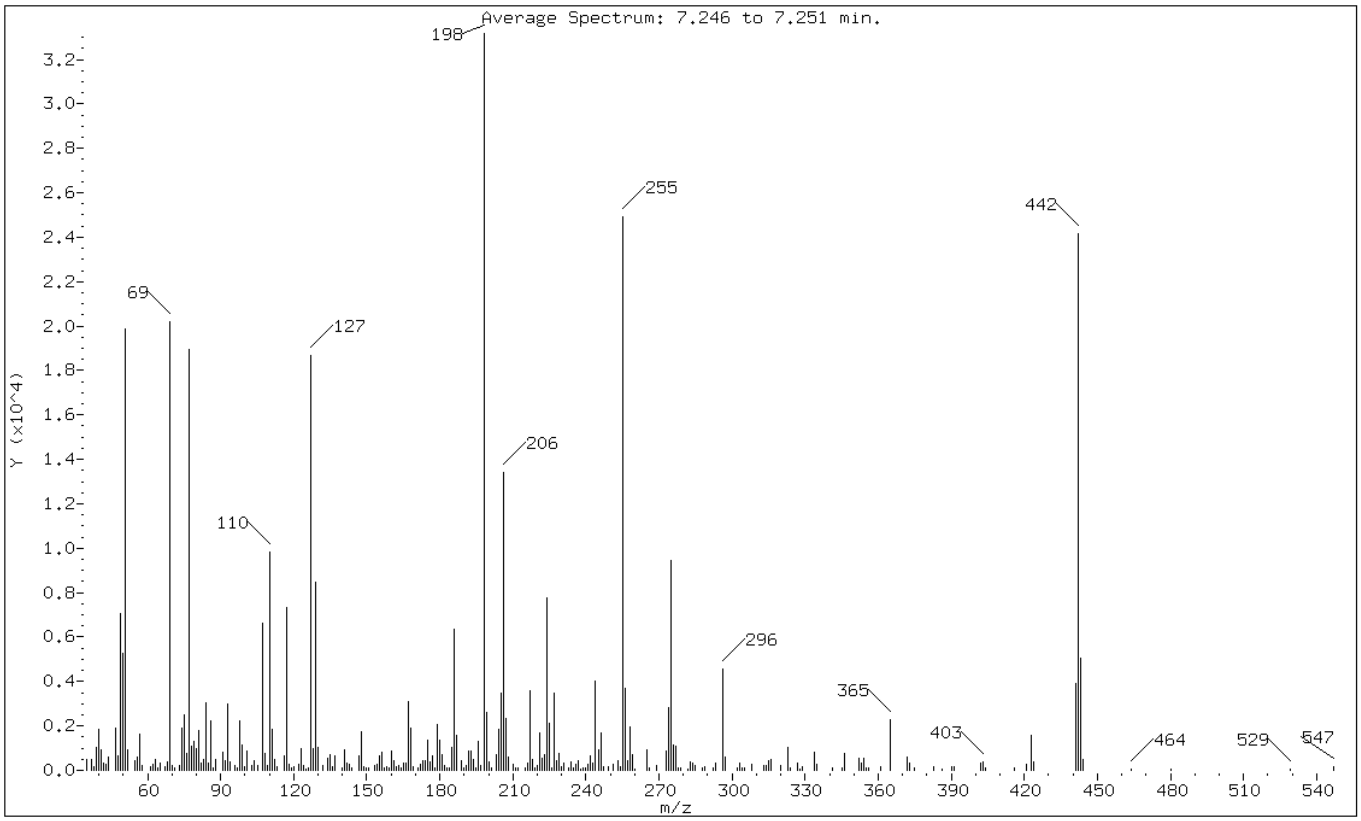
Data File: 1CD22002.D

Date: 22-APR-2013 11:33

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	59.89
68	Less than 2.00% of mass 69	1.15 (1.88)
69	Mass 69 relative abundance	60.91
70	Less than 2.00% of mass 69	0.69 (1.13)
127	10.00 - 80.00% of mass 198	56.30
197	Less than 2.00% of mass 198	0.70
442	Greater than 50.00% of mass 198	72.82
199	5.00 - 9.00% of mass 198	7.81
275	10.00 - 60.00% of mass 198	28.54
365	Greater than 1.00% of mass 198	6.93
441	Present, but less than mass 443	11.81
443	15.00 - 24.00% of mass 442	15.15 (20.81)

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Spectrum: Average Spectrum: 7.246 to 7.251 min.
Location of Maximum: 198.00
Number of points: 261

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	469	117.00	7316	193.00	851	276.00	1162
37.00	479	118.00	245	194.00	470	277.00	1088
38.00	188	119.00	89	195.00	85	278.00	105
39.00	1036	120.00	185	196.00	1312	279.00	130
40.00	1832	122.00	288	197.00	232	282.00	81
41.00	936	123.00	966	198.00	33168	283.00	374
42.00	316	124.00	227	199.00	2591	284.00	311
43.00	255	125.00	78	200.00	394	285.00	236
44.00	618	126.00	98	201.00	85	288.00	87
47.00	1901	127.00	18672	203.00	727	289.00	150
48.00	625	128.00	974	204.00	1864	292.00	100
49.00	7041	129.00	8478	205.00	3481	293.00	347
50.00	5261	130.00	1029	206.00	13415	296.00	4587
51.00	19864	132.00	234	207.00	2317	297.00	620
52.00	897	134.00	529	208.00	619	302.00	102
55.00	441	135.00	693	210.00	285	303.00	337
56.00	597	136.00	173	211.00	121	304.00	100
57.00	1643	137.00	636	212.00	115	305.00	97
58.00	203	140.00	100	215.00	128	308.00	295
61.00	146	141.00	899	216.00	335	313.00	206
62.00	255	142.00	347	217.00	3591	314.00	232
63.00	464	143.00	274	218.00	504	315.00	446
64.00	119	144.00	97	219.00	107	316.00	477
65.00	351	147.00	632	220.00	195	320.00	203
67.00	178	148.00	1726	221.00	1701	323.00	1018
68.00	380	149.00	148	222.00	521	324.00	96
69.00	20200	150.00	121	223.00	702	327.00	311
70.00	229	151.00	104	224.00	7764	328.00	81
71.00	100	153.00	201	225.00	2090	329.00	152
73.00	203	154.00	251	226.00	118	334.00	809
74.00	1880	155.00	636	227.00	3490	335.00	277
75.00	2480	156.00	811	228.00	432	341.00	123
76.00	736	157.00	91	229.00	739	345.00	113
77.00	18968	158.00	186	230.00	168	346.00	747
78.00	1112	159.00	115	231.00	352	352.00	567
79.00	1312	160.00	856	233.00	128	353.00	314
80.00	996	161.00	419	234.00	374	354.00	560
81.00	1794	162.00	184	235.00	130	355.00	131
82.00	341	163.00	234	236.00	276	356.00	84
83.00	502	164.00	89	237.00	448	361.00	154

84.00	3064	165.00	326	238.00	81	365.00	2299
85.00	318	166.00	318	239.00	114	372.00	592
86.00	2231	167.00	3095	240.00	104	373.00	328
87.00	99	168.00	1907	241.00	263	375.00	95
88.00	467	169.00	167	242.00	649	383.00	189
91.00	831	171.00	106	243.00	351	386.00	79
92.00	450	172.00	266	244.00	4039	390.00	156
93.00	2990	173.00	434	245.00	912	391.00	155
94.00	357	174.00	424	246.00	1698	402.00	335
96.00	204	175.00	1361	247.00	140	403.00	353
97.00	107	176.00	371	249.00	155	404.00	103
98.00	2227	177.00	671	251.00	266	416.00	131
99.00	1162	178.00	90	253.00	412	421.00	256
100.00	153	179.00	2062	254.00	173	423.00	1565
101.00	853	180.00	1344	255.00	24904	424.00	366
103.00	232	181.00	687	256.00	3709	441.00	3919
104.00	418	182.00	243	257.00	425	442.00	24152
105.00	203	183.00	94	258.00	1932	443.00	5026
107.00	6626	184.00	98	259.00	702	444.00	508
108.00	767	185.00	1008	260.00	75	464.00	80
109.00	226	186.00	6340	265.00	927	480.00	76
110.00	9851	187.00	1588	266.00	125	529.00	79
111.00	1842	189.00	426	269.00	191	547.00	169
112.00	462	190.00	88	273.00	869		
113.00	139	191.00	233	274.00	2838		
116.00	657	192.00	885	275.00	9466		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24006.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 24-APR-2013 13:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.227	7.469	-0.242	198	21949			50.00- 0.00	100.00
7.227	7.469	-0.242	51	15744			10.00- 80.00	71.73
7.227	7.469	-0.242	68	238			0.00- 2.00	1.48
7.227	7.469	-0.242	69	16075			0.00- 0.00	73.24
7.227	7.469	-0.242	70	0	0.0	0.0	0.00- 2.00	0.00
7.227	7.469	-0.242	127	13070			10.00- 80.00	59.55
7.227	7.469	-0.242	197	427			0.00- 2.00	1.95
7.227	7.469	-0.242	442	12881			50.00- 0.00	58.69
7.227	7.469	-0.242	199	1499			5.00- 9.00	6.83
7.227	7.469	-0.242	275	5028			10.00- 60.00	22.91
7.227	7.469	-0.242	365	1608			1.00- 0.00	7.33
7.227	7.469	-0.242	441	2253			0.01- 99.99	88.01
7.227	7.469	-0.242	443	2560			15.00- 24.00	19.87

Data File: 1CD24006.D

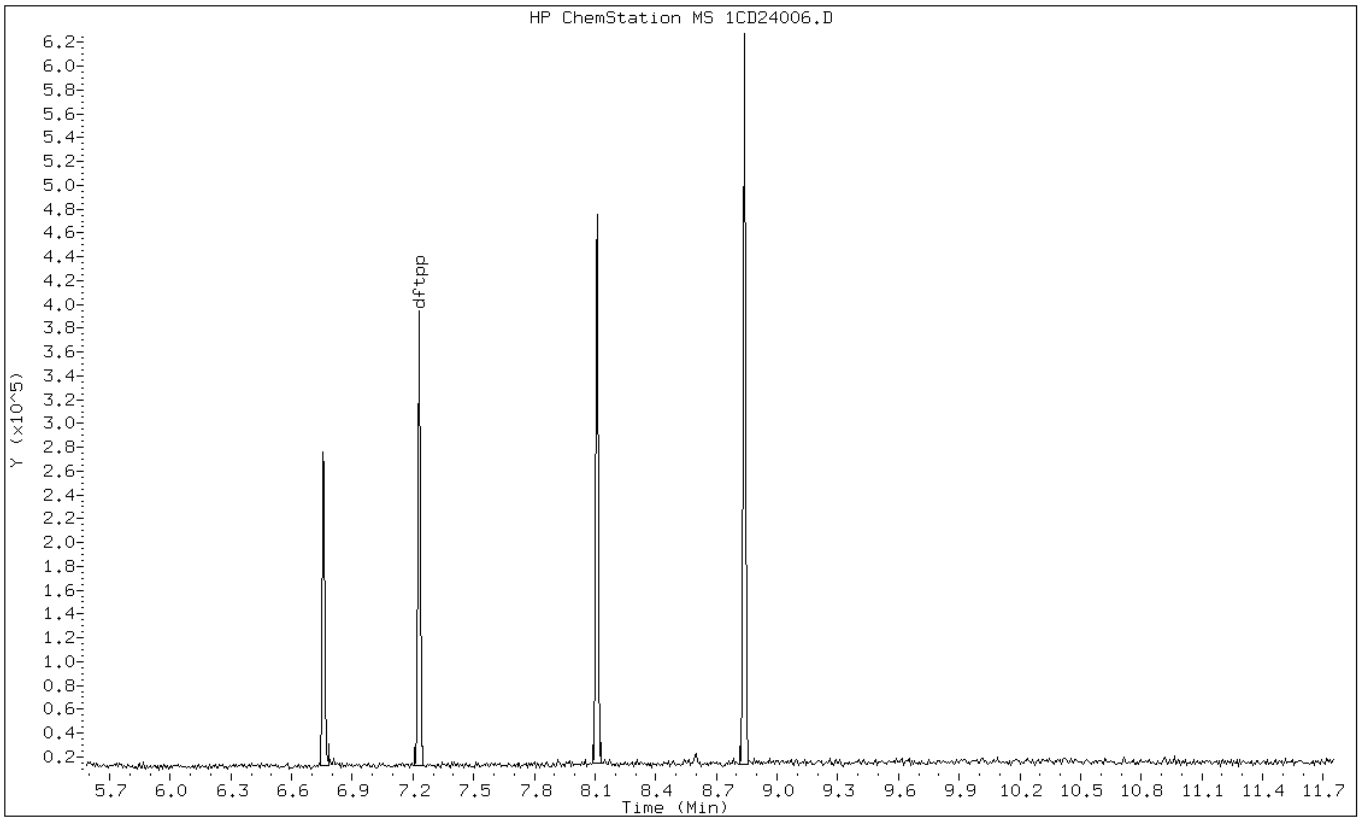
Date: 24-APR-2013 13:40

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



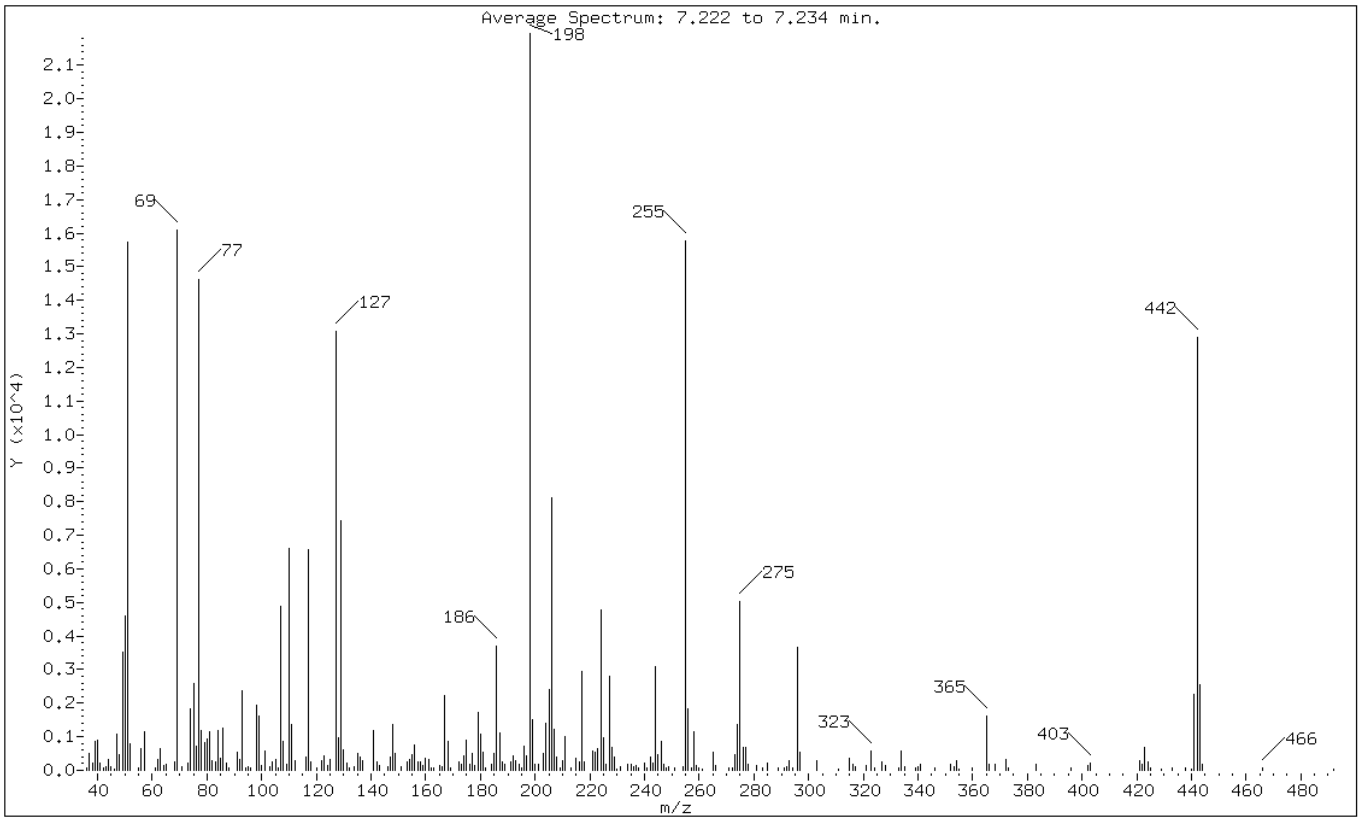
Data File: 1CD24006.D

Date: 24-APR-2013 13:40

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	71.73
68	Less than 2.00% of mass 69	1.08 (1.48)
69	Mass 69 relative abundance	73.24
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	59.55
197	Less than 2.00% of mass 198	1.95
442	Greater than 50.00% of mass 198	58.69
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 60.00% of mass 198	22.91
365	Greater than 1.00% of mass 198	7.33
441	Present, but less than mass 443	10.26
443	15.00 - 24.00% of mass 442	11.66 (19.87)

Data File: 1CD24006.D

Date: 24-APR-2013 13:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24006.D
Spectrum: Average Spectrum: 7.222 to 7.234 min.
Location of Maximum: 198.00
Number of points: 249

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	77	112.00	270	194.00	170	275.00	5028
37.00	490	116.00	378	195.00	79	276.00	699
38.00	221	117.00	6578	196.00	713	277.00	686
39.00	874	118.00	239	197.00	427	278.00	189
40.00	890	120.00	63	198.00	21944	281.00	133
41.00	226	122.00	271	199.00	1499	283.00	81
42.00	58	123.00	420	200.00	166	285.00	200
43.00	101	124.00	127	201.00	188	289.00	59
44.00	310	125.00	328	203.00	502	291.00	86
45.00	121	127.00	13070	204.00	1395	292.00	100
46.00	51	128.00	987	205.00	2409	293.00	280
47.00	1086	129.00	7442	206.00	8127	294.00	71
48.00	471	130.00	604	207.00	1235	296.00	3668
49.00	3519	131.00	221	208.00	392	297.00	547
50.00	4580	132.00	82	209.00	63	303.00	303
51.00	15744	134.00	115	210.00	283	311.00	53
52.00	773	135.00	491	211.00	1011	315.00	371
55.00	70	136.00	397	213.00	59	316.00	169
56.00	645	137.00	276	215.00	355	317.00	118
57.00	1151	141.00	1168	216.00	240	321.00	157
61.00	65	142.00	244	217.00	2938	323.00	559
62.00	332	143.00	148	218.00	254	324.00	69
63.00	655	146.00	102	221.00	570	327.00	259
64.00	140	147.00	411	222.00	525	328.00	140
65.00	187	148.00	1368	223.00	662	333.00	56
68.00	238	149.00	500	224.00	4787	334.00	558
69.00	16075	151.00	111	225.00	960	335.00	116
71.00	93	153.00	252	226.00	170	339.00	60
73.00	202	154.00	307	227.00	2802	340.00	108
74.00	1833	155.00	457	228.00	668	341.00	163
75.00	2594	156.00	764	229.00	411	346.00	56
76.00	732	157.00	263	230.00	50	352.00	166
77.00	14626	158.00	255	231.00	100	353.00	114
78.00	1203	159.00	139	234.00	196	354.00	272
79.00	823	160.00	359	235.00	165	355.00	51
80.00	923	161.00	333	236.00	98	360.00	54
81.00	1151	162.00	71	237.00	130	365.00	1608
82.00	293	163.00	74	238.00	56	366.00	185
83.00	265	165.00	145	240.00	225	368.00	181
84.00	1176	166.00	116	241.00	57	372.00	317

85.00	348	167.00	2233	242.00	403	373.00	59
86.00	1245	168.00	845	243.00	211	383.00	185
87.00	231	169.00	73	244.00	3072	396.00	73
88.00	67	172.00	249	245.00	467	402.00	145
91.00	556	173.00	182	246.00	861	403.00	232
92.00	324	174.00	415	247.00	191	421.00	276
93.00	2363	175.00	881	248.00	58	422.00	167
94.00	54	176.00	171	249.00	100	423.00	682
95.00	98	177.00	489	251.00	55	424.00	251
96.00	70	178.00	138	254.00	113	425.00	63
98.00	1936	179.00	1719	255.00	15751	429.00	52
99.00	1629	180.00	1068	256.00	1834	433.00	88
100.00	138	181.00	521	257.00	63	438.00	70
101.00	578	182.00	60	258.00	1138	440.00	53
103.00	124	184.00	171	259.00	137	441.00	2253
104.00	258	185.00	513	260.00	75	442.00	12881
105.00	319	186.00	3712	261.00	52	443.00	2560
106.00	86	187.00	1123	265.00	538	444.00	195
107.00	4898	188.00	268	266.00	137	466.00	77
108.00	853	189.00	193	271.00	66	492.00	50
109.00	187	191.00	238	272.00	54		
110.00	6596	192.00	442	273.00	478		
111.00	1368	193.00	299	274.00	1355		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: MB 660-136534/1-A

Matrix: Water | Lab File ID: 1CD18005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/17/2013 12:20

Sample wt/vol: 1000(mL) | Date Analyzed: 04/18/2013 12:37

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.: 136605 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18005.D
Lab Smp Id: MB 660-136534/1-A
Inj Date : 18-APR-2013 12:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : MB 660-136534/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m
Meth Date : 18-Apr-2013 12:15 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

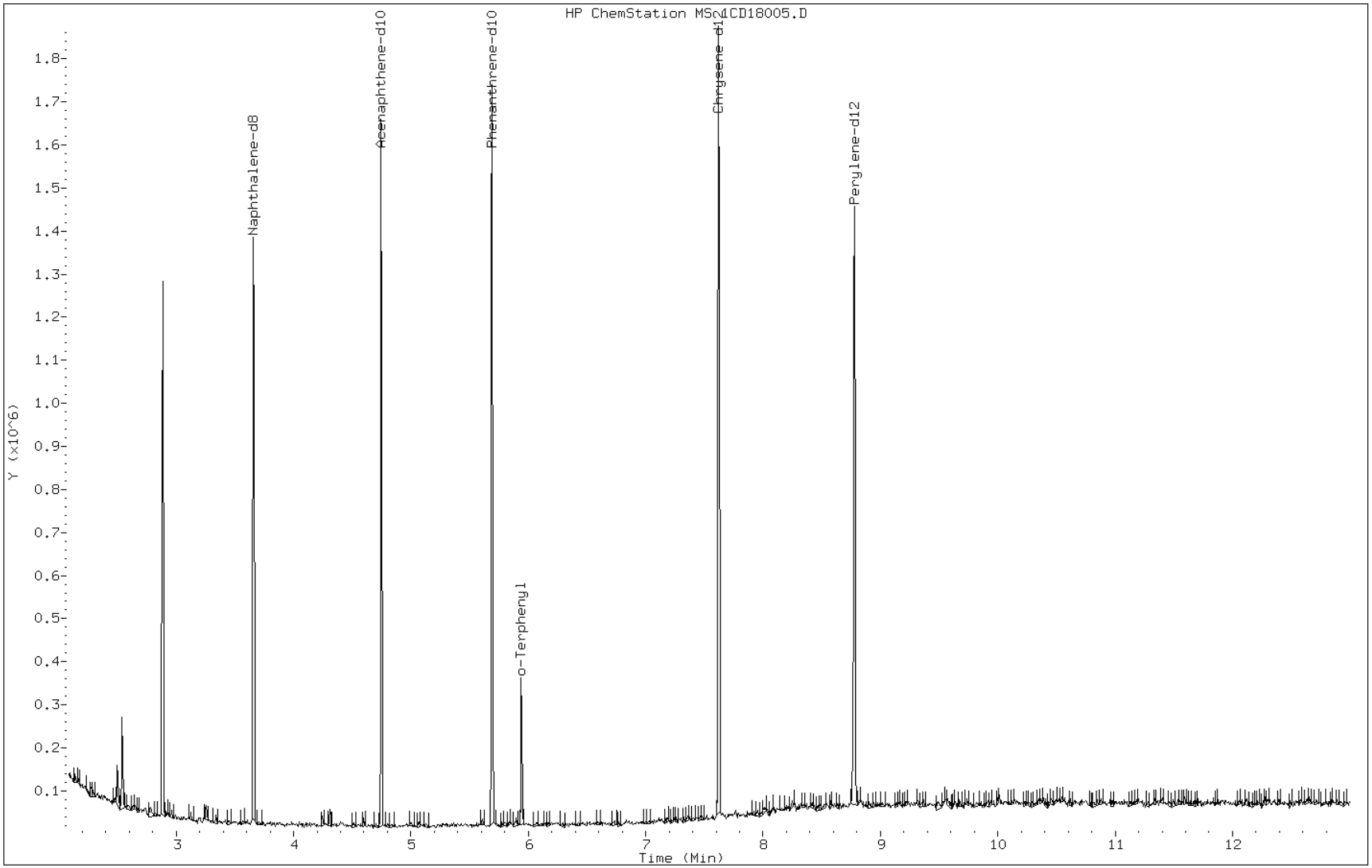
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.663	3.663	(1.000)	247540	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	178423	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	334717	40.0000	
$ 14 o-Terphenyl	230	5.939	5.945	(1.043)	33335	6.70379	6.7037
* 18 Chrysene-d12	240	7.621	7.627	(1.000)	412162	40.0000	
* 23 Perylene-d12	264	8.780	8.780	(1.000)	455980	40.0000	

Data File: 1CD18005.D

Date: 18-APR-2013 12:37

Client ID: Instrument: BSMC5973.i

Sample Info: MB 660-136534/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: MB 660-136637/1-A

Matrix: Solid | Lab File ID: 1CD22012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.41(g) | Date Analyzed: 04/22/2013 15:20

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.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22012.D
Lab Smp Id: MB 660-136637/1-A
Inj Date : 22-APR-2013 15:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : MB 660-136637/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

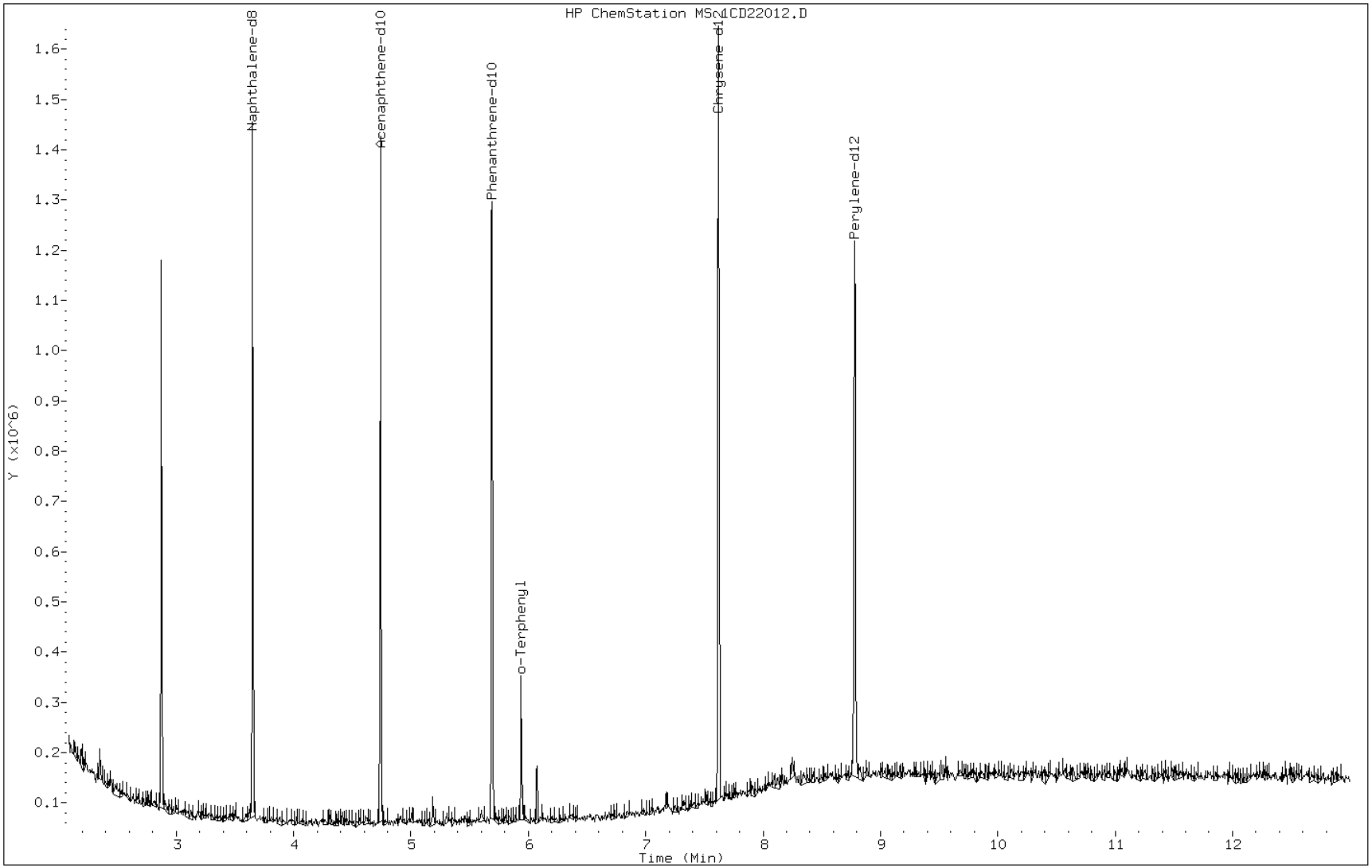
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.651	3.651	(1.000)	198118	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	144074	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.680	(1.000)	250592	40.0000	
$ 14 o-Terphenyl	230	5.939	5.933	(1.043)	24759	6.65611	431.9347
* 18 Chrysene-d12	240	7.621	7.615	(1.000)	308173	40.0000	
* 23 Perylene-d12	264	8.780	8.762	(1.000)	325429	40.0000	

Data File: 1CD22012.D

Date: 22-APR-2013 15:20

Client ID: Instrument: BSMC5973.i

Sample Info: MB 660-136637/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: MB 660-136731/1-A

Matrix: Solid | Lab File ID: 1CD24015.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.98(g) | Date Analyzed: 04/24/2013 16:40

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

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

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

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24015.D
Lab Smp Id: mb 660-136731/1-a
Inj Date : 24-APR-2013 16:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136731/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 11 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	14.980	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

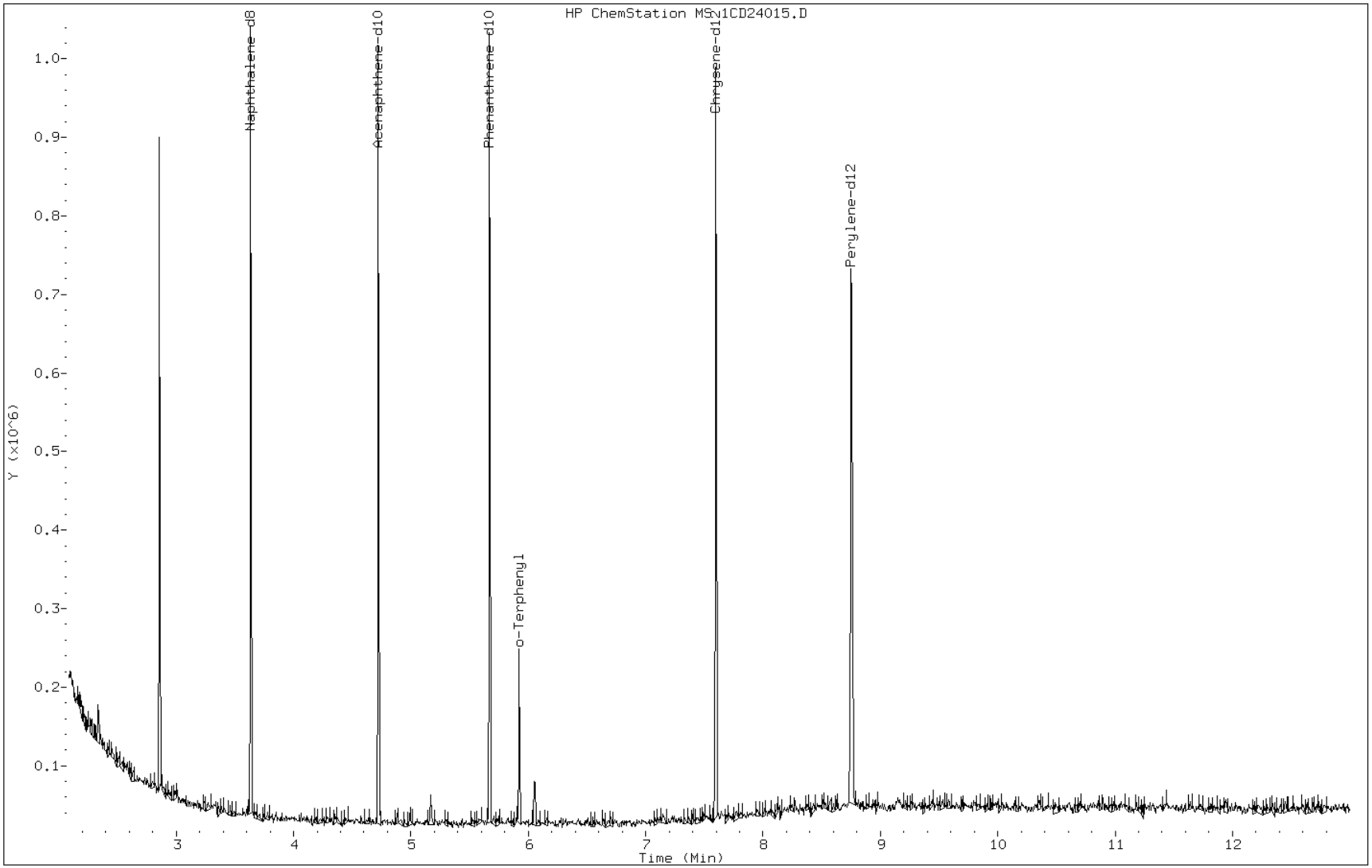
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
*	1 Naphthalene-d8	136	3.633	3.634	(1.000)	148951	40.0000	
*	6 Acenaphthene-d10	164	4.721	4.722	(1.000)	95079	40.0000	
*	10 Phenanthrene-d10	188	5.668	5.663	(1.000)	165222	40.0000	
$	14 o-Terphenyl	230	5.921	5.910	(1.045)	19615	8.17685	545.8512
*	18 Chrysene-d12	240	7.598	7.592	(1.000)	187433	40.0000	
*	23 Perylene-d12	264	8.751	8.733	(1.000)	213613	40.0000	

Data File: 1CD24015.D

Date: 24-APR-2013 16:40

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136731/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: LCS 660-136534/2-A

Matrix: Water | Lab File ID: 1CD18010.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/17/2013 12:20

Sample wt/vol: 1000(mL) | Date Analyzed: 04/18/2013 14:09

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.: 136605 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.86		2.0	0.50
208-96-8	Acenaphthylene	8.60		1.0	0.25
120-12-7	Anthracene	7.92		0.20	0.076
56-55-3	Benzo[a]anthracene	8.02		0.20	0.050
50-32-8	Benzo[a]pyrene	5.44		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.24		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	4.04		0.50	0.10
207-08-9	Benzo[k]fluoranthene	6.17		0.20	0.057
218-01-9	Chrysene	7.37		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	4.51		0.20	0.050
206-44-0	Fluoranthene	7.98		0.50	0.054
86-73-7	Fluorene	9.15		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	4.49		0.20	0.050
90-12-0	1-Methylnaphthalene	6.89		2.0	0.50
91-57-6	2-Methylnaphthalene	7.46		2.0	0.50
91-20-3	Naphthalene	7.43		2.0	0.25
85-01-8	Phenanthrene	7.98		0.50	0.20
129-00-0	Pyrene	7.79		0.50	0.089

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\1C041813.b\1CD18010.D
Lab Smp Id: LCS 660-136534/2-A
Inj Date : 18-APR-2013 14:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : LCS 660-136534/2-A
Misc Info : RE-RUN W/NEW INT
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m
Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	3.657	3.663	(1.000)	209025	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.745	(1.000)	133004	40.0000	
*	10 Phenanthrene-d10	188	5.692	5.692	(1.000)	264879	40.0000	
$	14 o-Terphenyl	230	5.939	5.945	(1.043)	31505	7.87227	7.8722
*	18 Chrysene-d12	240	7.621	7.627	(1.000)	337029	40.0000	
*	23 Perylene-d12	264	8.774	8.780	(1.000)	339368	40.0000	
	2 Naphthalene	128	3.675	3.674	(1.005)	41995	7.43239	7.4323
	3 2-Methylnaphthalene	142	4.098	4.098	(1.121)	27161	7.46031	7.4603
	4 1-Methylnaphthalene	142	4.163	4.163	(1.138)	24877	6.89271	6.8927
	5 Acenaphthylene	152	4.657	4.663	(0.981)	48471	8.60044	8.6004
	7 Acenaphthene	154	4.769	4.769	(1.005)	26698	7.86064	7.8606
	9 Fluorene	166	5.086	5.086	(1.072)	39530	9.14583	9.1458
	11 Phenanthrene	178	5.704	5.704	(1.002)	61897	7.97522	7.9752
	12 Anthracene	178	5.739	5.739	(1.008)	60892	7.91862	7.9186
	13 Carbazole	167	5.851	5.851	(1.028)	60668	8.47103	8.4710
	15 Fluoranthene	202	6.539	6.539	(1.149)	68543	7.97686	7.9768
	16 Pyrene	202	6.704	6.704	(0.880)	74668	7.78755	7.7875

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.615	7.615	(0.999)	76396	8.01593	8.0159
19 Chrysene	228	7.645	7.645	(1.003)	69438	7.36503	7.3650
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	53489	6.24028	6.2402
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	59864	6.17206	6.1720
22 Benzo(a)pyrene	252	8.727	8.727	(0.995)	48214	5.44158	5.4415
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.898	(1.127)	33873	4.48748	4.4874(M)
25 Dibenzo(a,h)anthracene	278	9.898	9.909	(1.128)	35286	4.50746	4.5074
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.166)	33541	4.03875	4.0387

QC Flag Legend

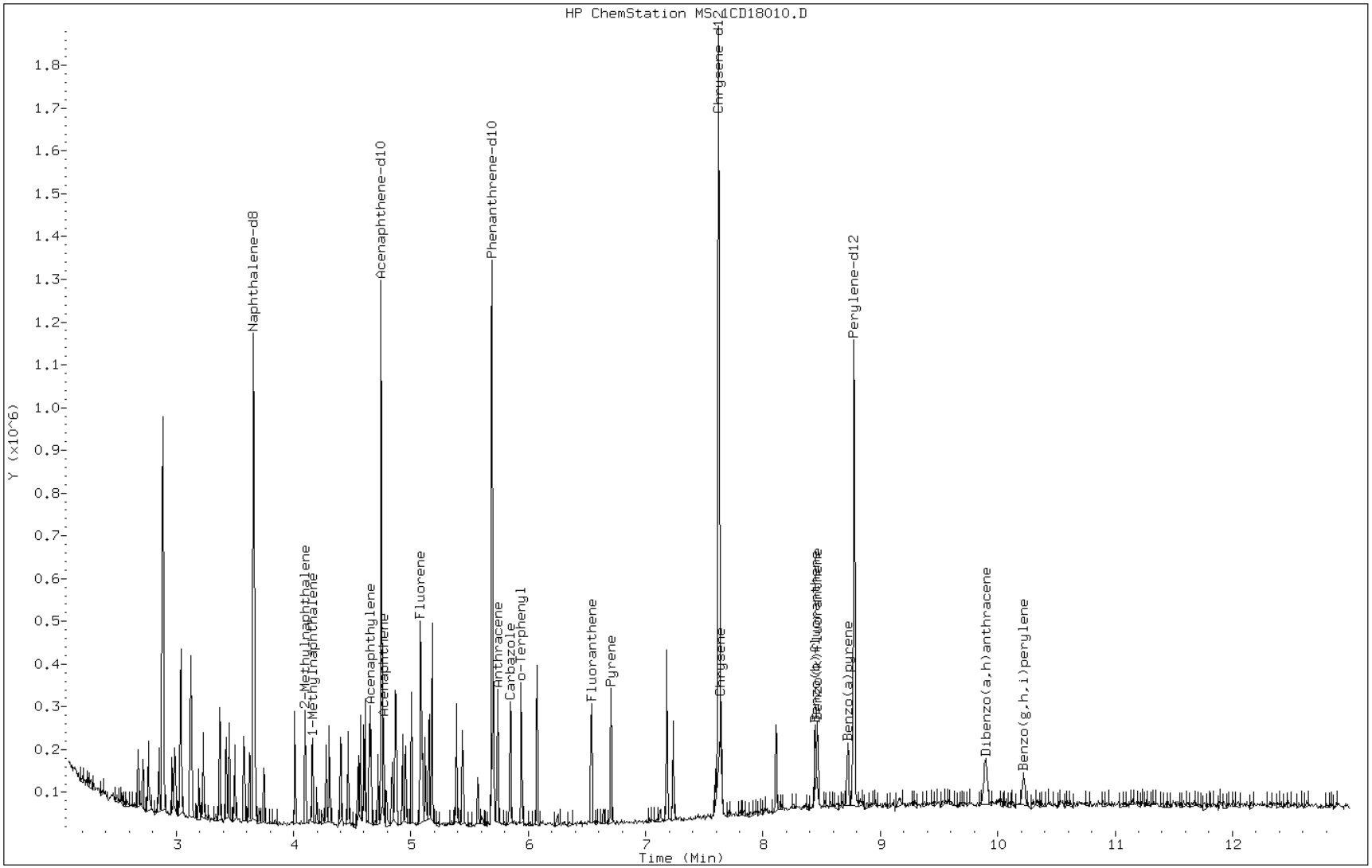
M - Compound response manually integrated.

Data File: 1CD18010.D

Date: 18-APR-2013 14:09

Client ID: Instrument: BSMC5973.i

Sample Info: LCS 660-136534/2-A Operator: SCC



Manual Integration Report

Data File: 1CD18010.D
Inj. Date and Time: 18-APR-2013 14:09
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

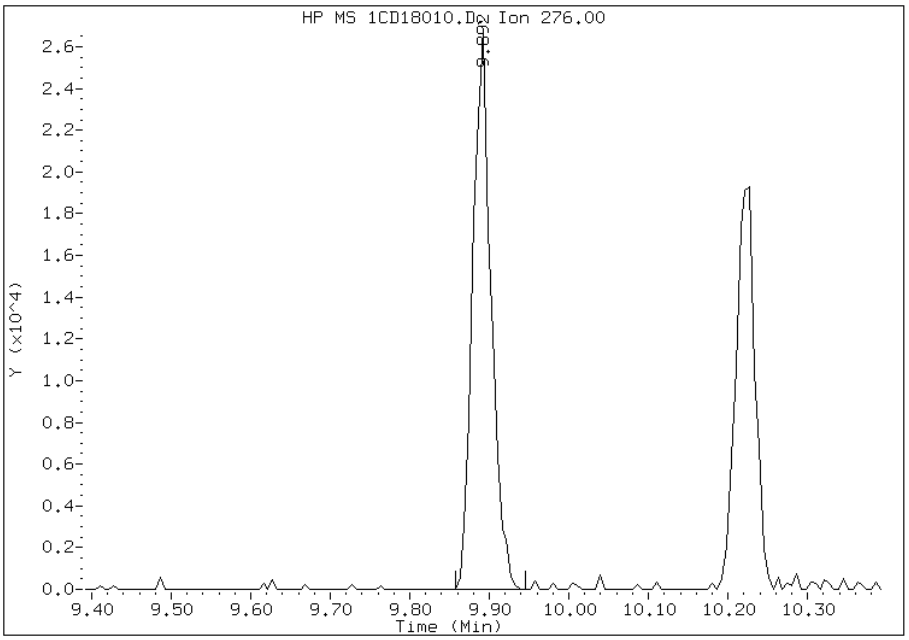
Processing Integration Results

RT: 9.89

Response: 42555

Amount: 5

Conc: 5



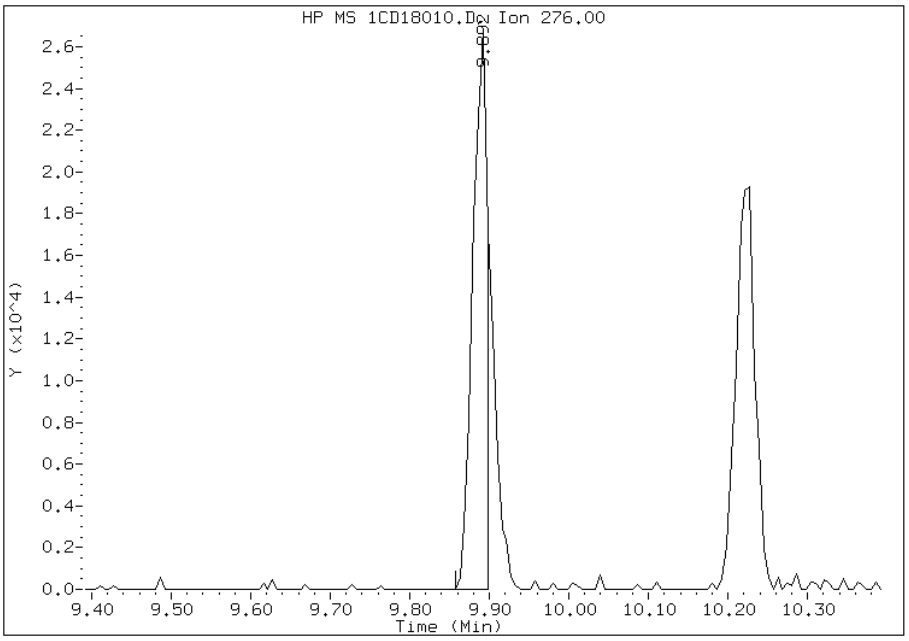
Manual Integration Results

RT: 9.89

Response: 33873

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 14:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: LCS 660-136637/2-A

Matrix: Solid | Lab File ID: 1CD22013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 15.15(g) | Date Analyzed: 04/22/2013 15:38

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.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	537		99	20
208-96-8	Acenaphthylene	492		40	5.0
120-12-7	Anthracene	528		8.3	4.2
56-55-3	Benzo[a]anthracene	579		7.9	3.9
50-32-8	Benzo[a]pyrene	446		10	5.1
205-99-2	Benzo[b]fluoranthene	556		12	6.0
191-24-2	Benzo[g,h,i]perylene	468		20	4.4
207-08-9	Benzo[k]fluoranthene	589		7.9	3.6
218-01-9	Chrysene	465		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	553		20	4.1
206-44-0	Fluoranthene	538		20	4.0
86-73-7	Fluorene	534		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	400		20	7.0
90-12-0	1-Methylnaphthalene	423		40	4.4
91-57-6	2-Methylnaphthalene	435		40	7.0
91-20-3	Naphthalene	472		40	4.4
85-01-8	Phenanthrene	534		7.9	3.9
129-00-0	Pyrene	479		20	3.7

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\1C042213.b\1CD22013.D
Lab Smp Id: lcs 660-136637/2-a
Inj Date : 22-APR-2013 15:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136637/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 13 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	15.150	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	3.651	3.651	(1.000)	194740	40.0000	
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	124944	40.0000	
* 10	Phenanthrene-d10	188	5.680	5.680	(1.000)	229447	40.0000	
$ 14	o-Terphenyl	230	5.933	5.933	(1.045)	25400	7.37467	486.7765
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	303066	40.0000	
* 23	Perylene-d12	264	8.762	8.762	(1.000)	303188	40.0000	
2	Naphthalene	128	3.663	3.663	(1.003)	37627	7.14782	471.8029
3	2-Methylnaphthalene	142	4.092	4.092	(1.121)	22222	6.58467	434.6317
4	1-Methylnaphthalene	142	4.151	4.151	(1.137)	21545	6.40739	422.9301
5	Acenaphthylene	152	4.651	4.651	(0.981)	39427	7.44701	491.5516
7	Acenaphthene	154	4.757	4.757	(1.004)	25974	8.14080	537.3465
9	Fluorene	166	5.074	5.080	(1.071)	32833	8.08642	533.7569
11	Phenanthrene	178	5.698	5.698	(1.003)	54408	8.09306	534.1951
12	Anthracene	178	5.727	5.733	(1.008)	53288	7.99988	528.0452

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	54248	8.74430	577.1817
15 Fluoranthene	202	6.527	6.527	(1.149)	60632	8.14584	537.6791
16 Pyrene	202	6.692	6.692	(0.879)	62591	7.25953	479.1767
17 Benzo(a)anthracene	228	7.604	7.603	(0.998)	75189	8.77340	579.1021
19 Chrysene	228	7.633	7.633	(1.002)	59731	7.04543	465.0448
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	64478	8.41996	555.7730
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	77359	8.92758	589.2795
22 Benzo(a)pyrene	252	8.715	8.709	(0.995)	53452	6.75265	445.7195
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	42679	6.06644	400.4251(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	61593	8.38045	553.1649
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	52584	7.08734	467.8113

QC Flag Legend

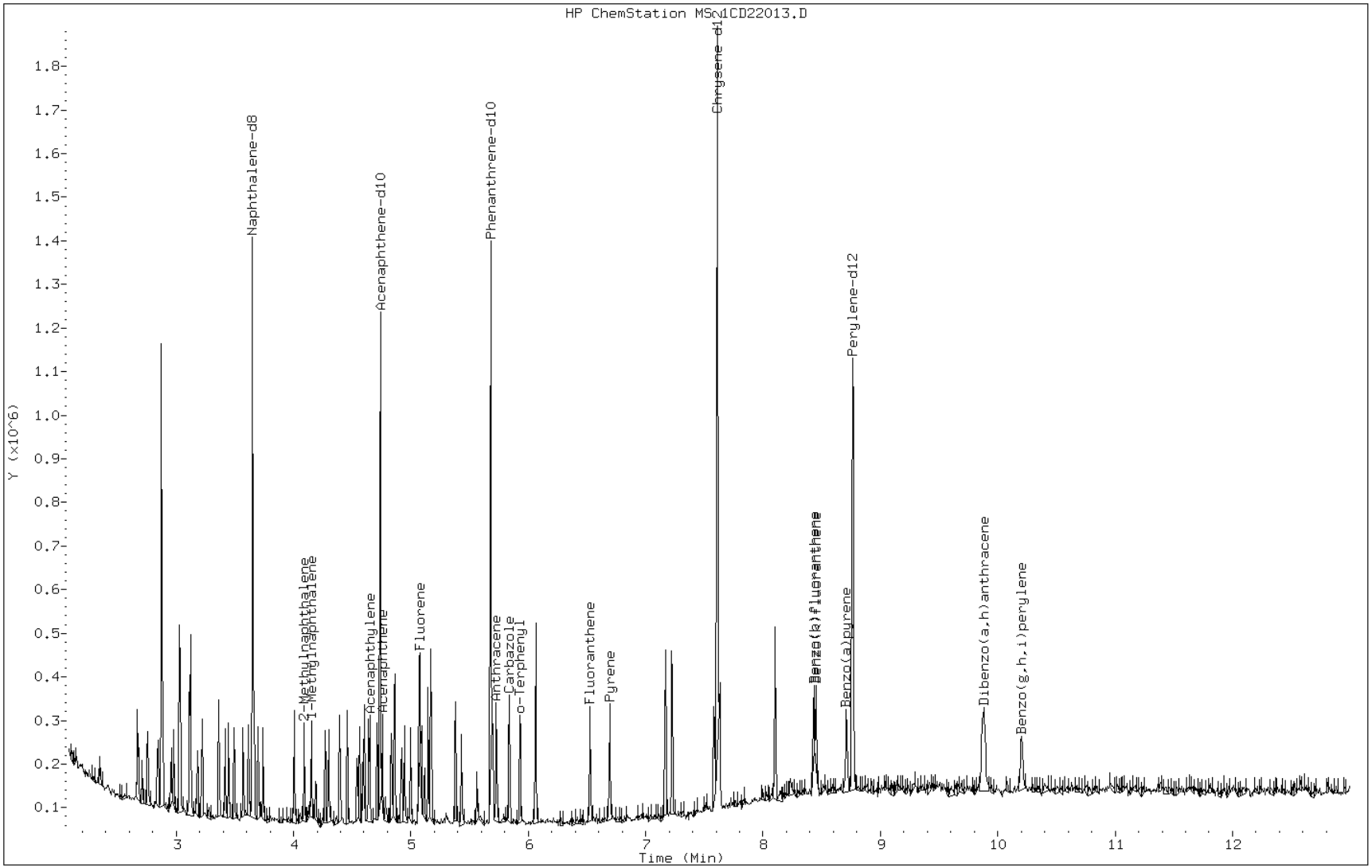
M - Compound response manually integrated.

Data File: 1CD22013.D

Date: 22-APR-2013 15:38

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136637/2-a Operator: SCC



Manual Integration Report

Data File: 1CD22013.D
Inj. Date and Time: 22-APR-2013 15:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

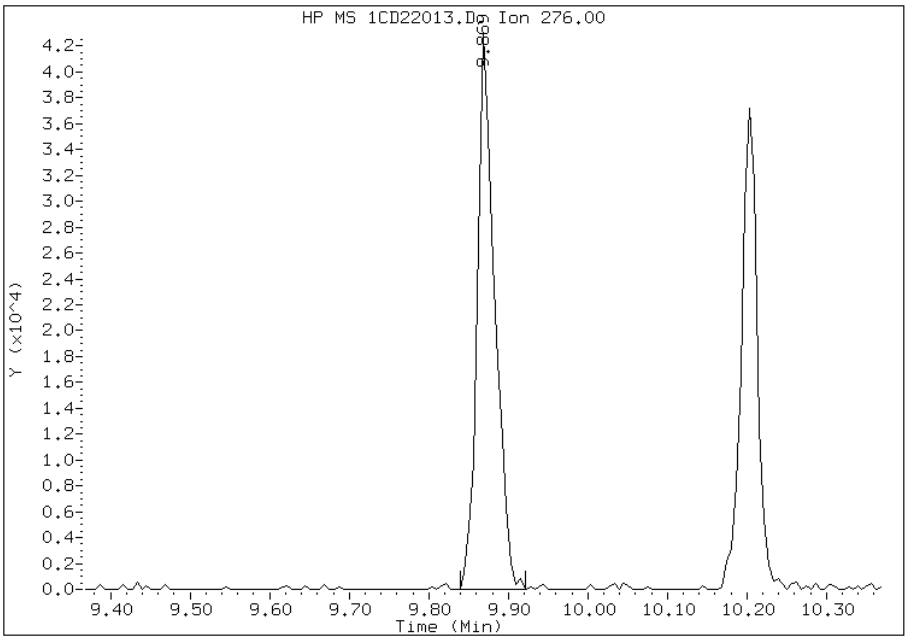
Processing Integration Results

RT: 9.87

Response: 65345

Amount: 9

Conc: 591



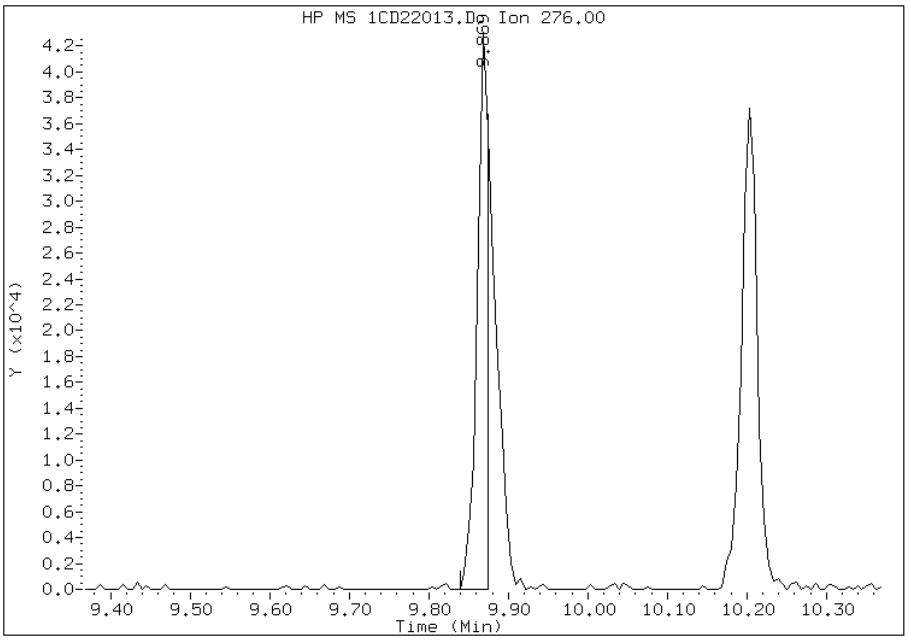
Manual Integration Results

RT: 9.87

Response: 42679

Amount: 6

Conc: 400



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: LCS 660-136731/2-A

Matrix: Solid | Lab File ID: 1CD24016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.96(g) | Date Analyzed: 04/24/2013 16:58

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.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	523		100	20
208-96-8	Acenaphthylene	506		40	5.0
120-12-7	Anthracene	577		8.4	4.2
56-55-3	Benzo[a]anthracene	787		8.0	3.9
50-32-8	Benzo[a]pyrene	499		10	5.2
205-99-2	Benzo[b]fluoranthene	562		12	6.1
191-24-2	Benzo[g,h,i]perylene	542		20	4.4
207-08-9	Benzo[k]fluoranthene	662		8.0	3.6
218-01-9	Chrysene	567		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	631		20	4.1
206-44-0	Fluoranthene	617		20	4.0
86-73-7	Fluorene	597		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	574		20	7.1
90-12-0	1-Methylnaphthalene	546		40	4.4
91-57-6	2-Methylnaphthalene	521		40	7.1
91-20-3	Naphthalene	612		40	4.4
85-01-8	Phenanthrene	653		8.0	3.9
129-00-0	Pyrene	571		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24016.D
Lab Smp Id: lcs 660-136731/2-a
Inj Date : 24-APR-2013 16:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136731/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.633	3.634	(1.000)	127322	40.0000	
* 6	Acenaphthene-d10	164	4.721	4.722	(1.000)	84433	40.0000	
* 10	Phenanthrene-d10	188	5.663	5.663	(1.000)	159954	40.0000	
$ 14	o-Terphenyl	230	5.910	5.910	(1.044)	19208	8.27090	552.8675
* 18	Chrysene-d12	240	7.586	7.592	(1.000)	198591	40.0000	
* 23	Perylene-d12	264	8.739	8.733	(1.000)	222308	40.0000	
2	Naphthalene	128	3.645	3.646	(1.003)	32048	9.14831	611.5182
3	2-Methylnaphthalene	142	4.074	4.075	(1.121)	18011	7.79944	521.3527
4	1-Methylnaphthalene	142	4.133	4.134	(1.138)	18389	8.16905	546.0592
5	Acenaphthylene	152	4.633	4.634	(0.981)	32835	7.57549	506.3829
7	Acenaphthene	154	4.739	4.740	(1.004)	19052	7.82545	523.0913
9	Fluorene	166	5.057	5.057	(1.071)	25899	8.92666	596.7019
11	Phenanthrene	178	5.674	5.675	(1.002)	42783	9.76872	652.9890
12	Anthracene	178	5.710	5.710	(1.008)	40678	8.62526	576.5546

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.821	5.822	(1.028)	41408	9.40642	628.7713
15 Fluoranthene	202	6.504	6.504	(1.149)	48977	9.23748	617.4788
16 Pyrene	202	6.674	6.675	(0.880)	50079	8.53851	570.7558
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	61457	11.7663	786.5201
19 Chrysene	228	7.610	7.610	(1.003)	48133	8.48775	567.3631
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	51683	8.40599	561.8976
21 Benzo(k)fluoranthene	252	8.433	8.428	(0.965)	59234	9.90145	661.8613
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	44184	7.46310	498.8706
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	49263	8.58858	574.1030(M)
25 Dibenzo(a,h)anthracene	278	9.851	9.851	(1.127)	50921	9.44616	631.4275
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.163)	45539	8.11283	542.3014

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24016.D

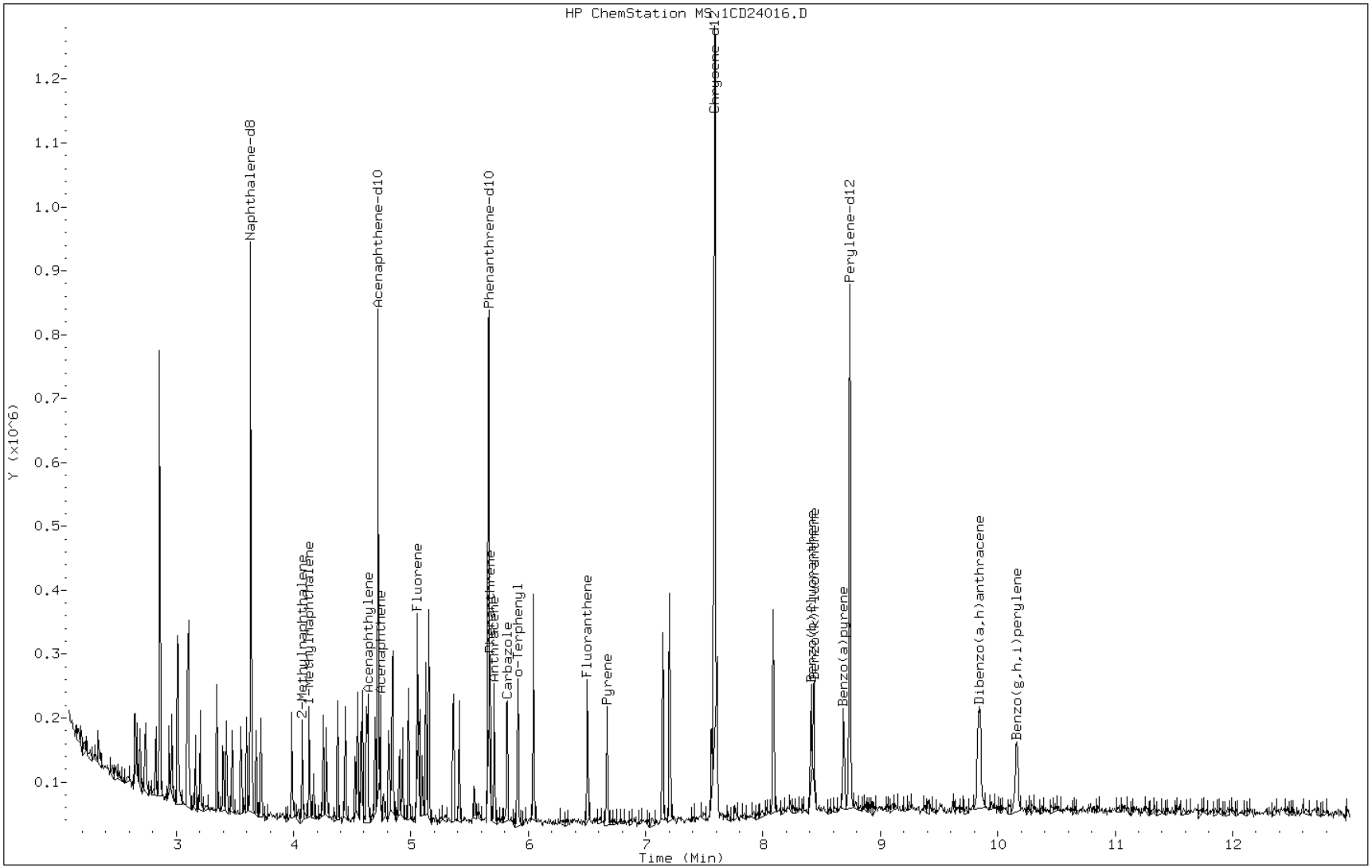
Date: 24-APR-2013 16:58

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136731/2-a

Operator: SCC



Manual Integration Report

Data File: 1CD24016.D
Inj. Date and Time: 24-APR-2013 16:58
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

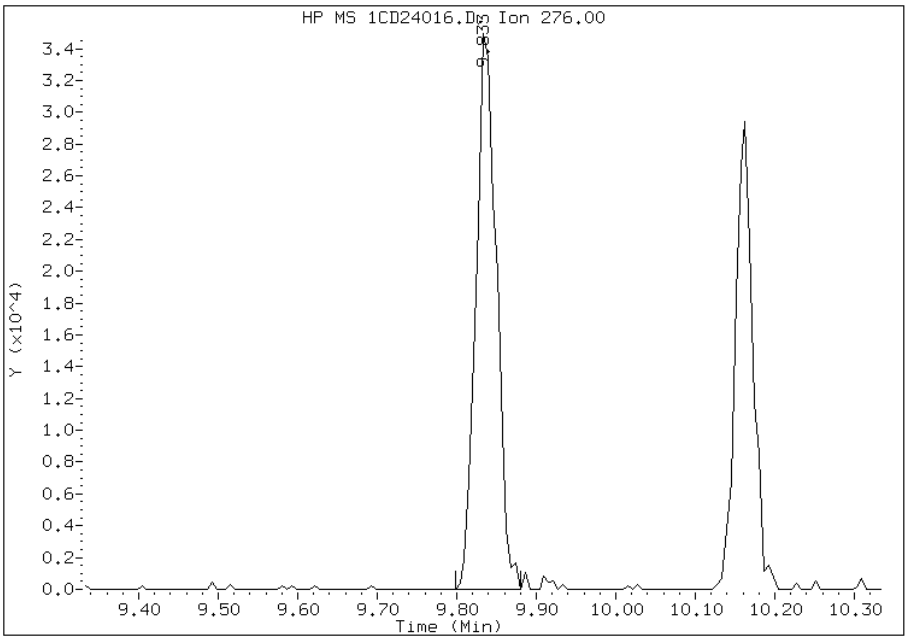
Processing Integration Results

RT: 9.83

Response: 62231

Amount: 11

Conc: 714



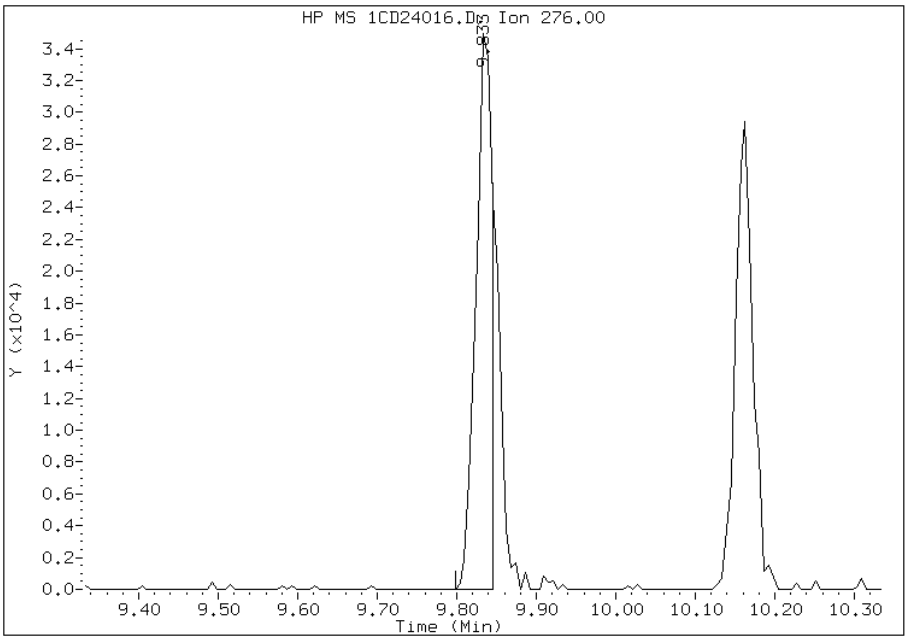
Manual Integration Results

RT: 9.83

Response: 49263

Amount: 9

Conc: 574



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: 640-42984-B-1-C MS

Matrix: Water (SPLP East) | Lab File ID: 1CD18009.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/17/2013 12:20

Sample wt/vol: 950(mL) | Date Analyzed: 04/18/2013 13:51

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.: 136605 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	4.47		2.1	0.53
208-96-8	Acenaphthylene	5.16		1.1	0.26
120-12-7	Anthracene	3.58		0.21	0.080
56-55-3	Benzo[a]anthracene	1.32		0.21	0.053
50-32-8	Benzo[a]pyrene	0.732		0.21	0.060
205-99-2	Benzo[b]fluoranthene	0.858		0.21	0.053
191-24-2	Benzo[g,h,i]perylene	0.675		0.53	0.11
207-08-9	Benzo[k]fluoranthene	1.05		0.21	0.060
218-01-9	Chrysene	1.11		0.21	0.073
53-70-3	Dibenz(a,h)anthracene	1.27		0.21	0.053
206-44-0	Fluoranthene	2.22		0.53	0.057
86-73-7	Fluorene	5.31		2.1	0.53
193-39-5	Indeno[1,2,3-cd]pyrene	1.44		0.21	0.053
90-12-0	1-Methylnaphthalene	6.10		2.1	0.53
91-57-6	2-Methylnaphthalene	6.01		2.1	0.53
91-20-3	Naphthalene	4.69		2.1	0.26
85-01-8	Phenanthrene	4.35		0.53	0.21
129-00-0	Pyrene	2.06		0.53	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\1CD18009.D
Lab Smp Id: 640-42984-b-1-c ms
Inj Date : 18-APR-2013 13:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 640-42984-b-1-c ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m
Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 9 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/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	950.000	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	3.663	3.663	(1.000)	258024	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.745	(1.000)	185482	40.0000	
*	10 Phenanthrene-d10	188	5.692	5.692	(1.000)	367599	40.0000	
$	14 o-Terphenyl	230	5.939	5.945	(1.043)	20389	4.03910	4.2516
*	18 Chrysene-d12	240	7.621	7.627	(1.000)	453778	40.0000	
*	23 Perylene-d12	264	8.774	8.780	(1.000)	428900	40.0000	
	2 Naphthalene	128	3.674	3.674	(1.003)	31102	4.45920	4.6938(R)
	3 2-Methylnaphthalene	142	4.098	4.098	(1.119)	25355	5.70821	6.0086
	4 1-Methylnaphthalene	142	4.163	4.163	(1.136)	25824	5.79633	6.1014
	5 Acenaphthylene	152	4.657	4.663	(0.981)	38538	4.90333	5.1613
	7 Acenaphthene	154	4.768	4.769	(1.005)	20096	4.24279	4.4660(R)
	9 Fluorene	166	5.086	5.086	(1.072)	30414	5.04583	5.3114(R)
	11 Phenanthrene	178	5.704	5.704	(1.002)	44560	4.13543	4.3530(R)
	12 Anthracene	178	5.739	5.739	(1.008)	36264	3.39812	3.5769(R)
	13 Carbazole	167	5.851	5.851	(1.028)	43877	4.41455	4.6468(R)
	15 Fluoranthene	202	6.539	6.539	(1.149)	25119	2.10642	2.2172(R)
	16 Pyrene	202	6.704	6.704	(0.880)	25254	1.95623	2.0591(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.615	7.615	(0.999)	16071	1.25242	1.3183(R)
19 Chrysene	228	7.639	7.645	(1.002)	13359	1.05239	1.1077(R)
20 Benzo(b)fluoranthene	252	8.445	8.445	(0.962)	8835	0.81557	0.8584(R)
21 Benzo(k)fluoranthene	252	8.462	8.468	(0.964)	12281	1.00187	1.0546(R)
22 Benzo(a)pyrene	252	8.721	8.727	(0.994)	7785	0.69522	0.7318(R)
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.898	(1.127)	8102	1.36769	1.4396(RM)
25 Dibenzo(a,h)anthracene	278	9.903	9.909	(1.129)	8323	1.20484	1.2682(R)
26 Benzo(g,h,i)perylene	276	10.209	10.233	(1.164)	6728	0.64102	0.6747(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD18009.D

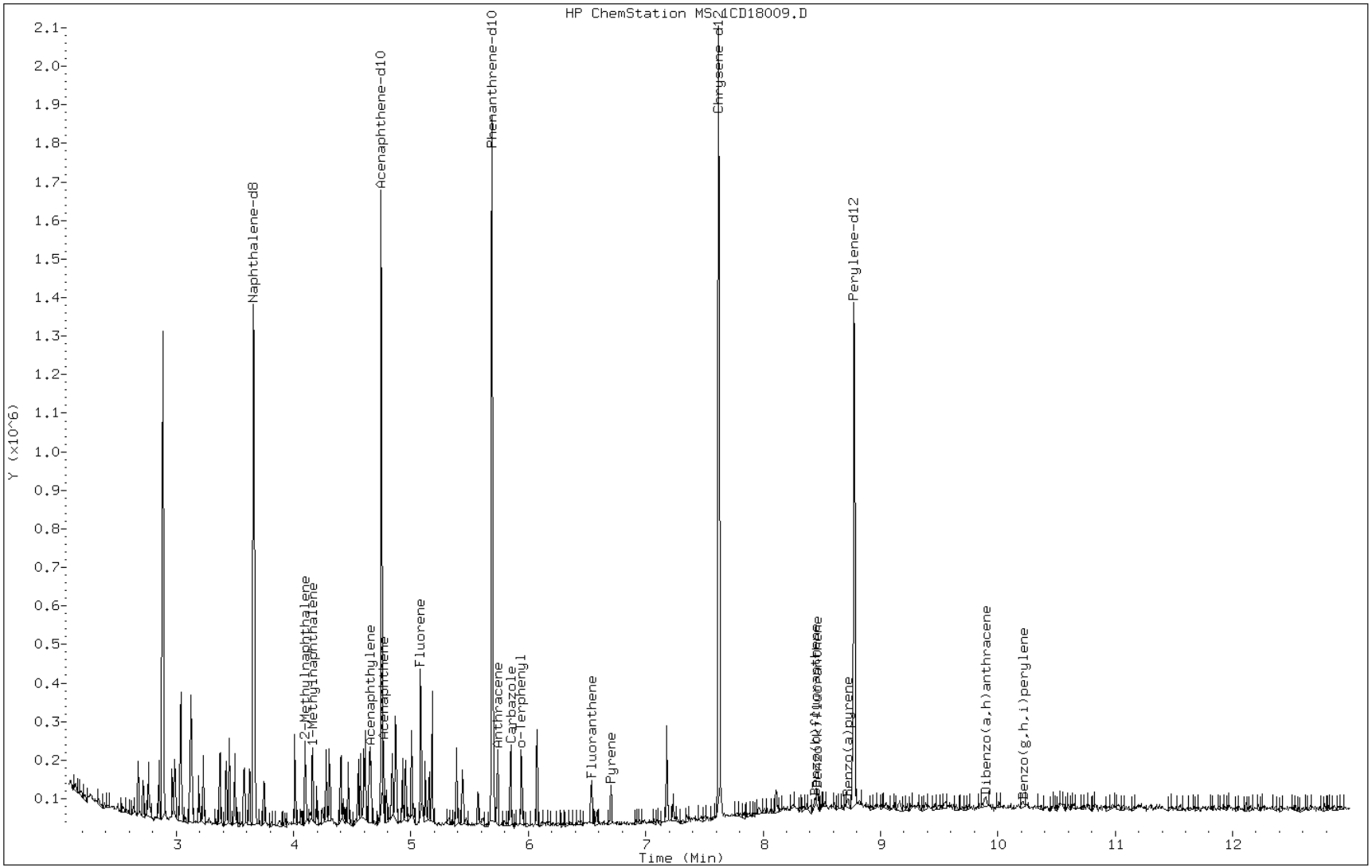
Date: 18-APR-2013 13:51

Client ID:

Instrument: BSMC5973.i

Sample Info: 640-42984-b-1-c ms

Operator: SCC



Manual Integration Report

Data File: 1CD18009.D
Inj. Date and Time: 18-APR-2013 13:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/18/2013

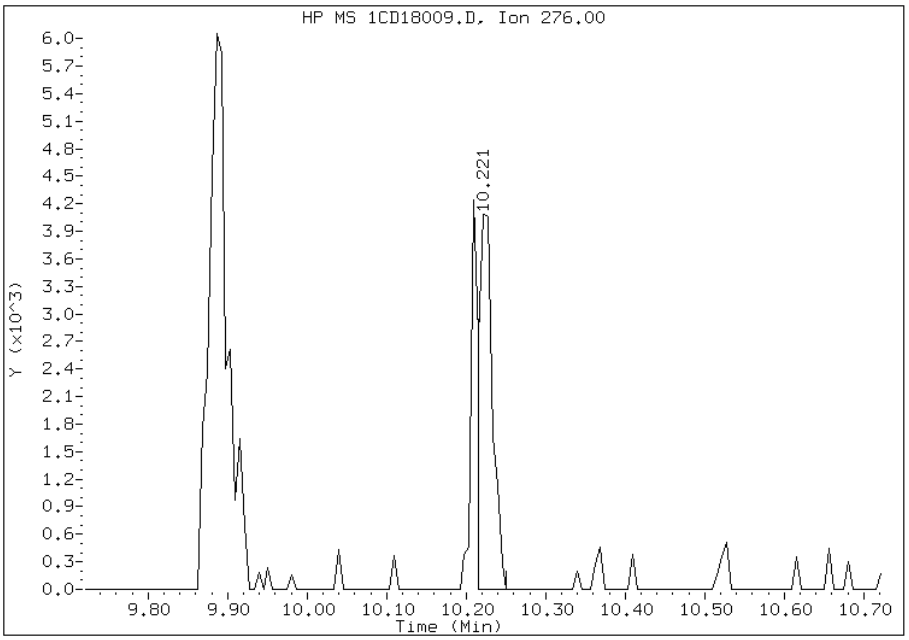
Processing Integration Results

RT: 10.22

Response: 4928

Amount: 0

Conc: 0



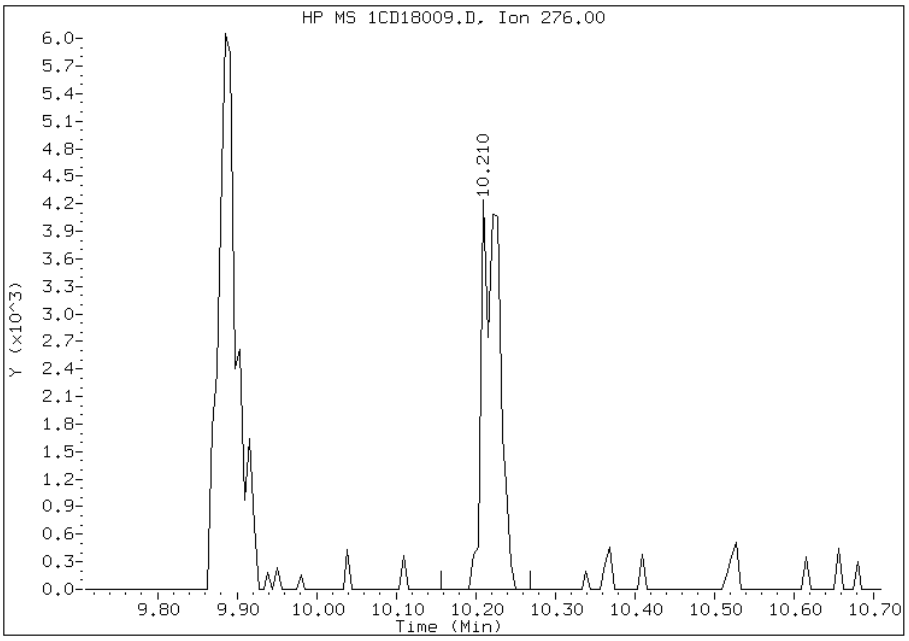
Manual Integration Results

RT: 10.21

Response: 6728

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 14:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD18009.D
Inj. Date and Time: 18-APR-2013 13:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

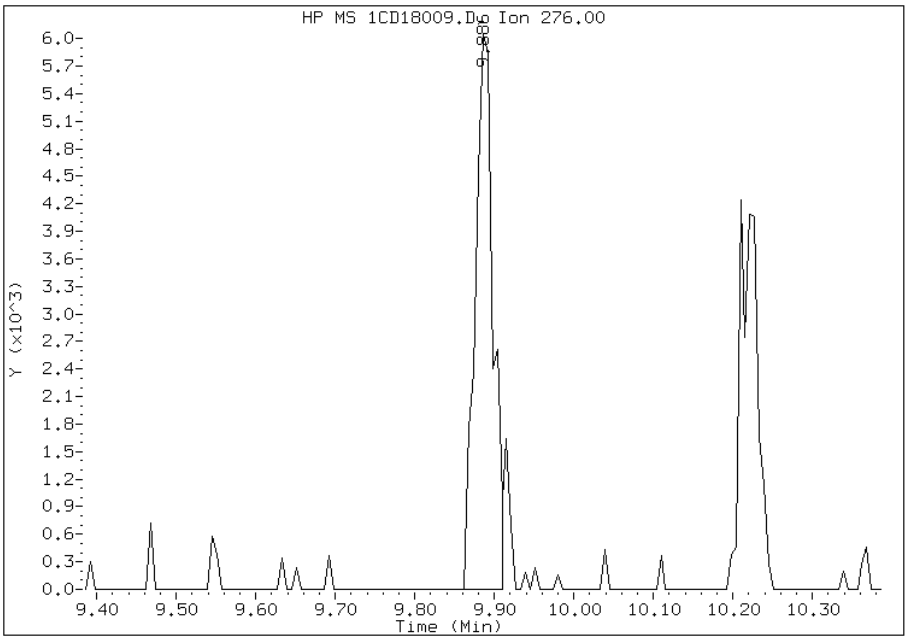
Processing Integration Results

RT: 9.89

Response: 9365

Amount: 1

Conc: 2



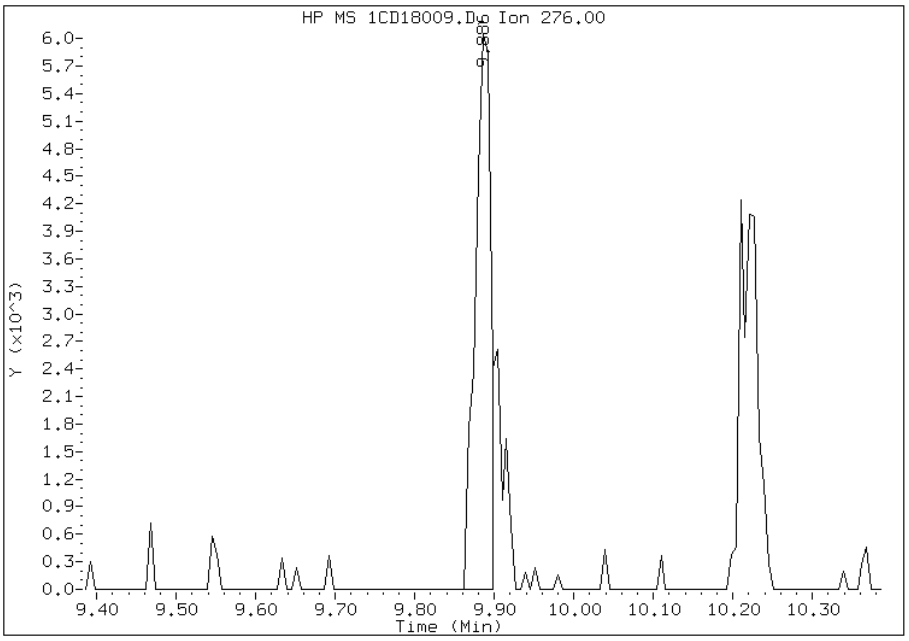
Manual Integration Results

RT: 9.89

Response: 8102

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 18-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.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: 680-89328-A-8-B MS

Matrix: Solid | Lab File ID: 1CD22017.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.96(g) | Date Analyzed: 04/22/2013 16:51

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	654		500	99
208-96-8	Acenaphthylene	680		200	25
120-12-7	Anthracene	501		42	21
56-55-3	Benzo[a]anthracene	927		40	19
50-32-8	Benzo[a]pyrene	690		52	26
205-99-2	Benzo[b]fluoranthene	964		60	30
191-24-2	Benzo[g,h,i]perylene	816		99	22
207-08-9	Benzo[k]fluoranthene	744		40	18
218-01-9	Chrysene	777		45	22
53-70-3	Dibenz(a,h)anthracene	596		99	20
206-44-0	Fluoranthene	980		99	20
86-73-7	Fluorene	528		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	810		99	35
90-12-0	1-Methylnaphthalene	556		200	22
91-57-6	2-Methylnaphthalene	682		200	35
91-20-3	Naphthalene	483		200	22
85-01-8	Phenanthrene	833		40	19
129-00-0	Pyrene	890		99	18

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\1C042213.b\1CD22017.D
Lab Smp Id: 680-89328-a-8-b ms
Inj Date : 22-APR-2013 16:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-8-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 17 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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.651	3.651	(1.000)	207649	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	130313	40.0000	
* 10 Phenanthrene-d10	188	5.680	5.680	(1.000)	251724	40.0000	
$ 14 o-Terphenyl	230	5.927	5.933	(1.043)	5498	2.00861	537.0624
* 18 Chrysene-d12	240	7.609	7.615	(1.000)	309063	40.0000	
* 23 Perylene-d12	264	8.762	8.762	(1.000)	299307	40.0000	
2 Naphthalene	128	3.663	3.663	(1.003)	8195	1.45998	390.3699(Q)
3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	6721	2.06307	551.6241
4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	6029	1.68153	449.6077
5 Acenaphthylene	152	4.651	4.651	(0.981)	11366	2.05837	550.3661
7 Acenaphthene	154	4.757	4.757	(1.004)	6584	1.97854	529.0224
9 Fluorene	166	5.074	5.080	(1.071)	6762	1.59679	426.9498
11 Phenanthrene	178	5.692	5.698	(1.002)	18593	2.52162	674.2307
12 Anthracene	178	5.727	5.733	(1.008)	11078	1.51591	405.3235

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	11749	1.72624	461.5604
15 Fluoranthene	202	6.527	6.527	(1.149)	24218	2.96572	792.9729
16 Pyrene	202	6.692	6.692	(0.879)	23685	2.69377	720.2586
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	24515	2.80502	750.0047
19 Chrysene	228	7.627	7.633	(1.002)	20314	2.34960	628.2343
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	22050	2.91677	779.8851
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	19251	2.25046	601.7276
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	16325	2.08910	558.5821
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	14062	2.45071	655.2710(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	10405	1.80461	482.5153
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	18085	2.46913	660.1943(M)

QC Flag Legend

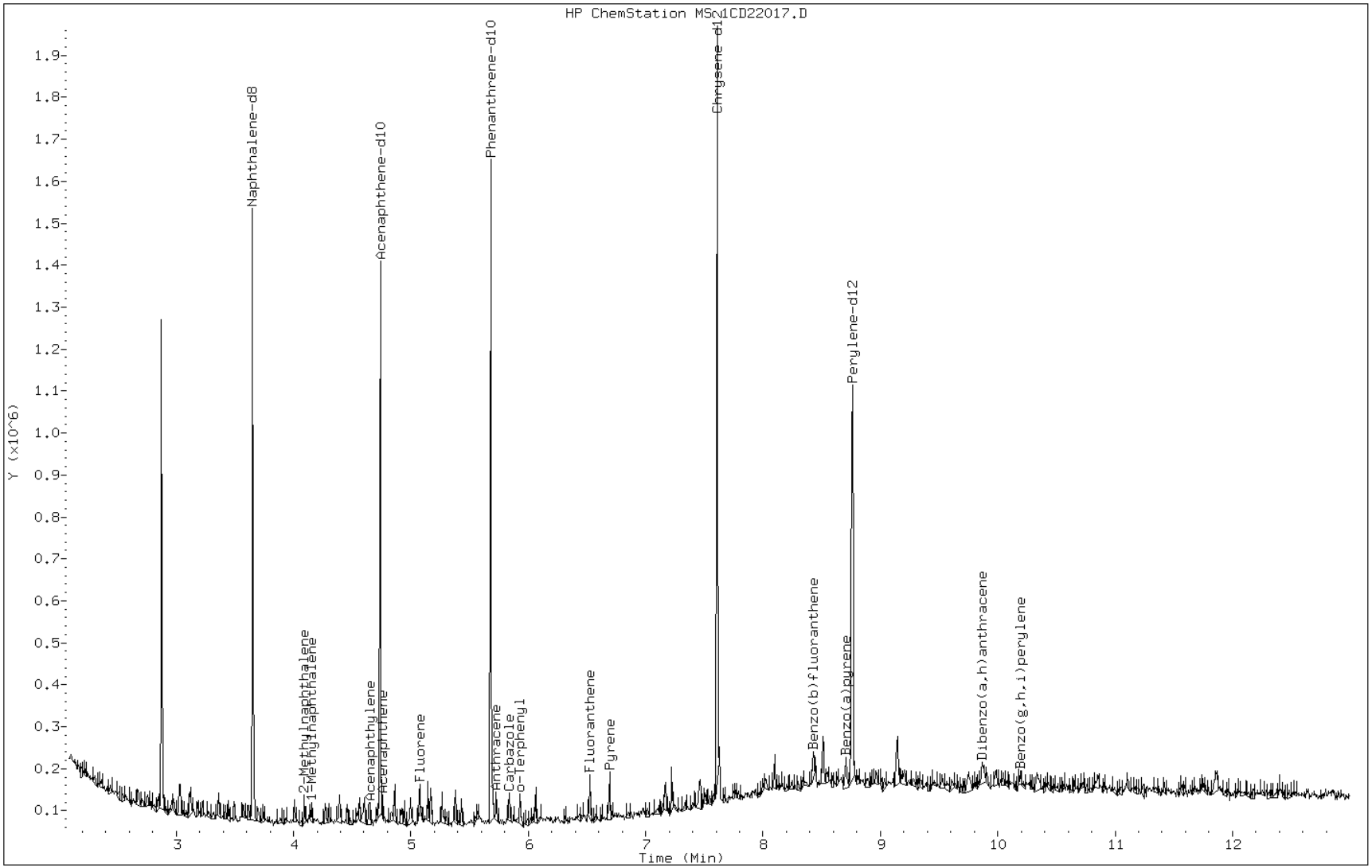
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD22017.D

Date: 22-APR-2013 16:51

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-b ms Operator: SCC



Manual Integration Report

Data File: 1CD22017.D
Inj. Date and Time: 22-APR-2013 16:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/23/2013

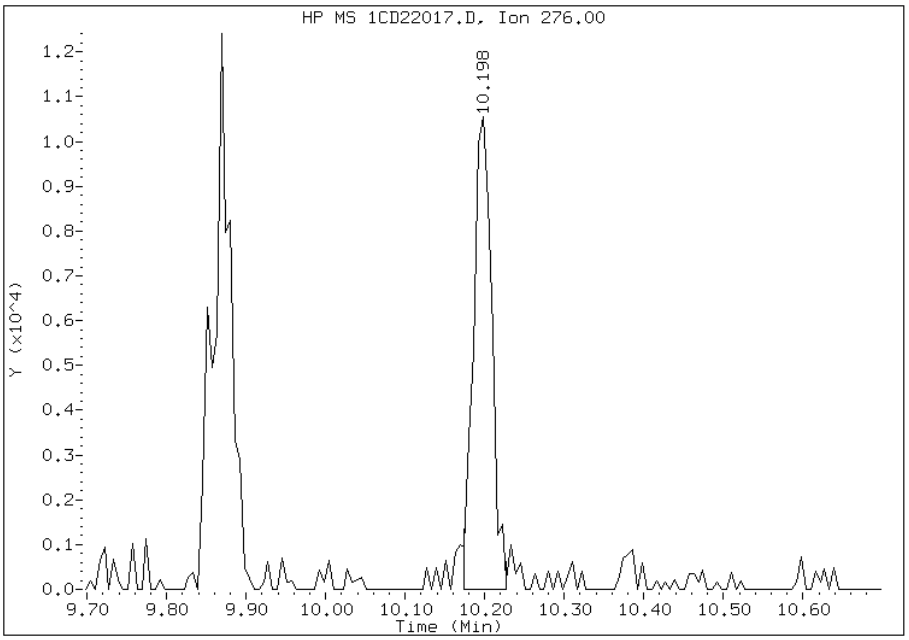
Processing Integration Results

RT: 10.20

Response: 16753

Amount: 2

Conc: 612



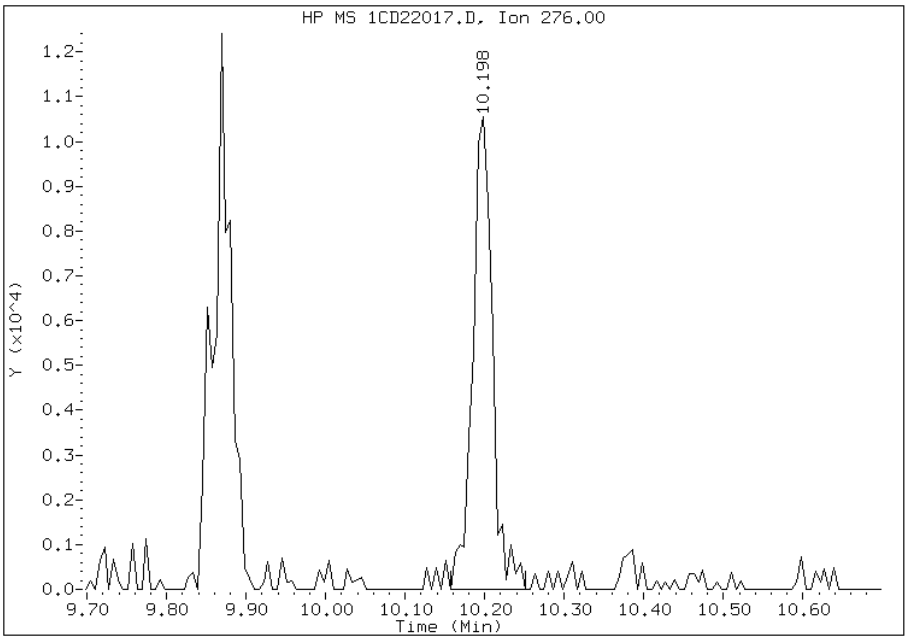
Manual Integration Results

RT: 10.20

Response: 18085

Amount: 2

Conc: 660



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22017.D
Inj. Date and Time: 22-APR-2013 16:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

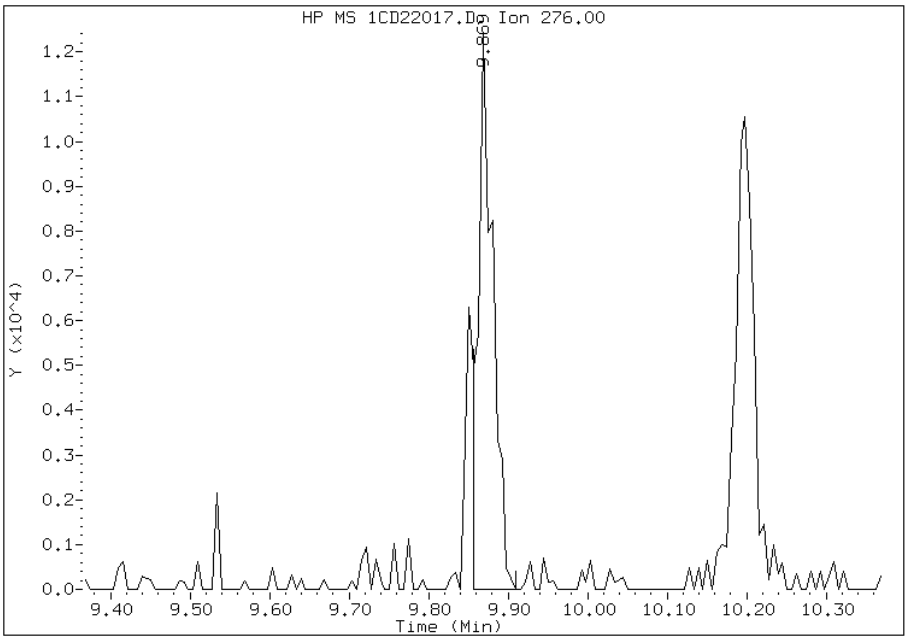
Processing Integration Results

RT: 9.87

Response: 16294

Amount: 3

Conc: 732



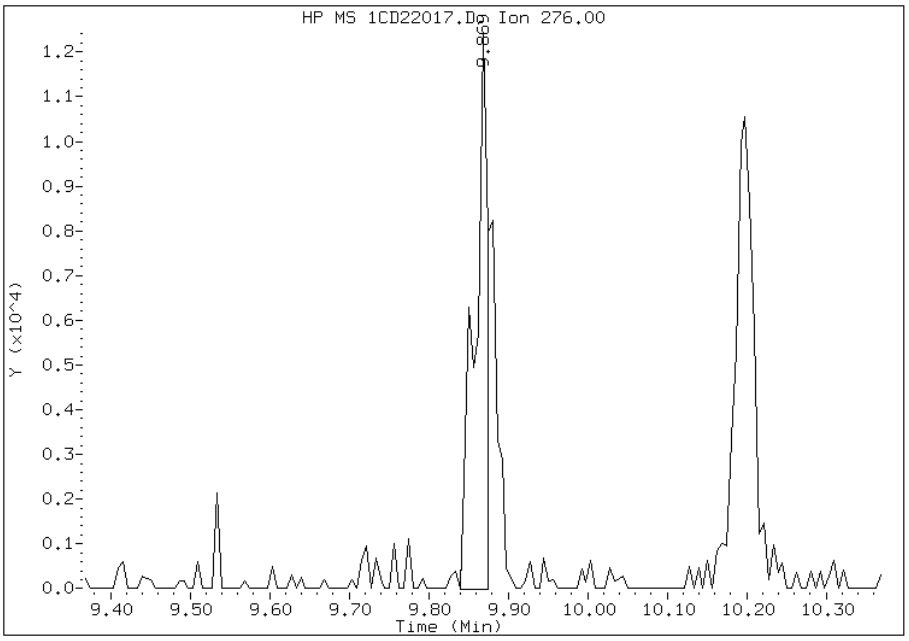
Manual Integration Results

RT: 9.87

Response: 14062

Amount: 2

Conc: 655



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:20
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV1001A-CS MS | Lab Sample ID: 680-89421-1 MS

Matrix: Solid | Lab File ID: 1CD24018.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 13:10

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.96(g) | Date Analyzed: 04/24/2013 17:34

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.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	648		520	100
208-96-8	Acenaphthylene	637		210	26
120-12-7	Anthracene	637		44	22
56-55-3	Benzo[a]anthracene	1260		42	20
50-32-8	Benzo[a]pyrene	940		54	27
205-99-2	Benzo[b]fluoranthene	1430		64	32
191-24-2	Benzo[g,h,i]perylene	953		100	23
207-08-9	Benzo[k]fluoranthene	972		42	19
218-01-9	Chrysene	1430		47	23
53-70-3	Dibenz(a,h)anthracene	778		100	21
206-44-0	Fluoranthene	1430		100	21
86-73-7	Fluorene	588		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	820		100	37
90-12-0	1-Methylnaphthalene	1000		210	23
91-57-6	2-Methylnaphthalene	1270		210	37
91-20-3	Naphthalene	1010		210	23
85-01-8	Phenanthrene	1490		42	20
129-00-0	Pyrene	1170		100	19

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\1C042413.b\1CD24018.D
Lab Smp Id: 680-89421-a-1-b ms
Inj Date : 24-APR-2013 17:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	132812	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	88305	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	182302	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	4952	1.87092	500.2456
* 18 Chrysene-d12	240	7.586	7.592	(1.000)	228957	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	224834	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	10671	2.90905	777.8220
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	8235	3.66883	980.9696(R)
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	6823	2.88239	770.6925
5 Acenaphthylene	152	4.633	4.634	(0.981)	6925	1.83437	490.4721
7 Acenaphthene	154	4.739	4.740	(1.004)	4677	1.86622	498.9888
9 Fluorene	166	5.057	5.057	(1.071)	5149	1.69495	453.1938
11 Phenanthrene	178	5.674	5.675	(1.002)	21482	4.30373	1150.7288(R)
12 Anthracene	178	5.710	5.710	(1.008)	9257	1.83481	490.5912

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.821	5.822	(1.028)	9785	1.95031	521.4743
15 Fluoranthene	202	6.504	6.504	(1.149)	24937	4.11251	1099.6002(R)
16 Pyrene	202	6.668	6.675	(0.879)	22701	3.35720	897.6464(R)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	21750	3.62776	969.9891(R)
19 Chrysene	228	7.609	7.610	(1.003)	26963	4.12405	1102.6864(R)
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	25530	4.10568	1097.7752(R)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	16937	2.79935	748.4892
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	15336	2.70701	723.8006
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	10891	2.36051	631.1531(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	12214	2.24032	599.0149
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	15575	2.74353	733.5646

QC Flag Legend

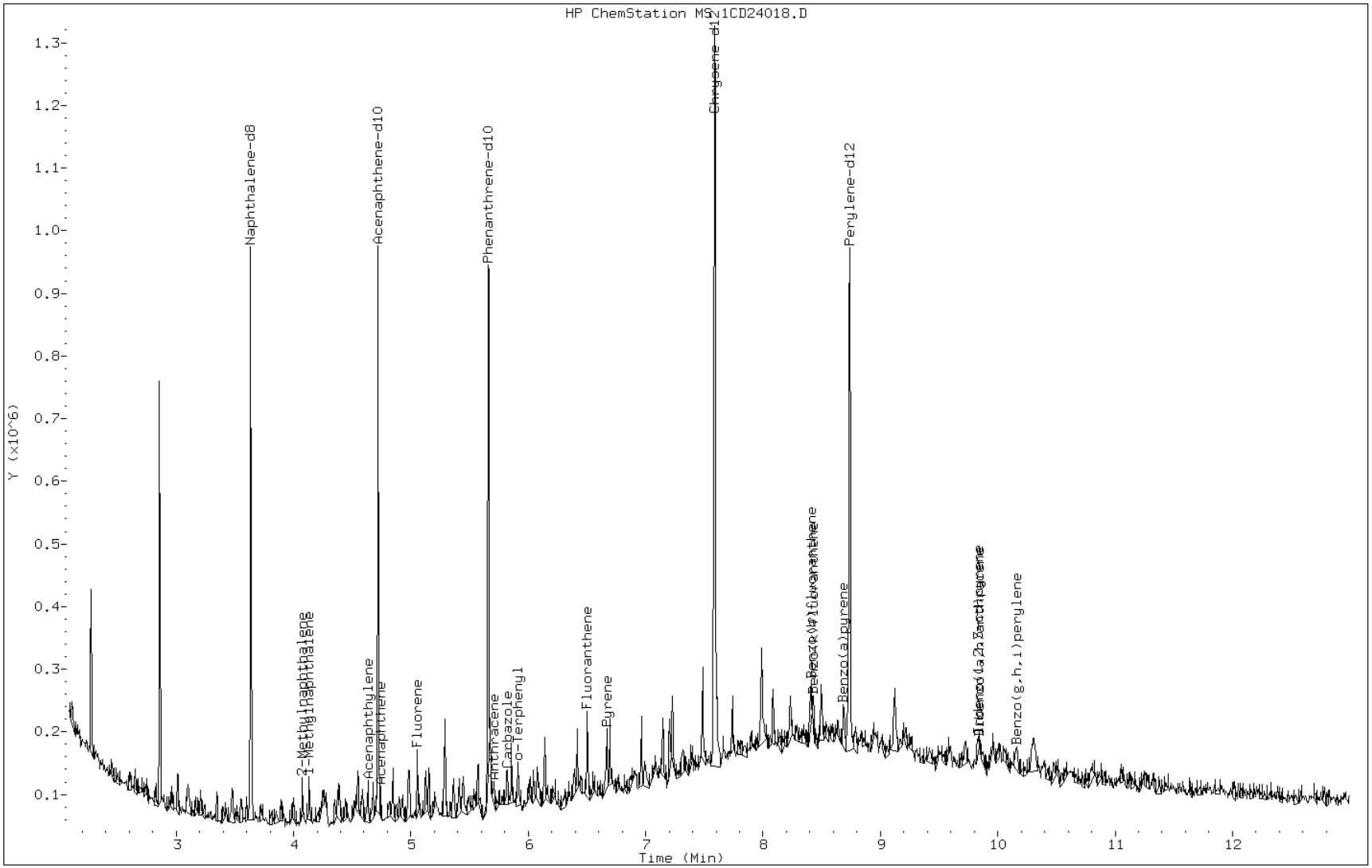
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD24018.D

Date: 24-APR-2013 17:34

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1CD24018.D
Inj. Date and Time: 24-APR-2013 17:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

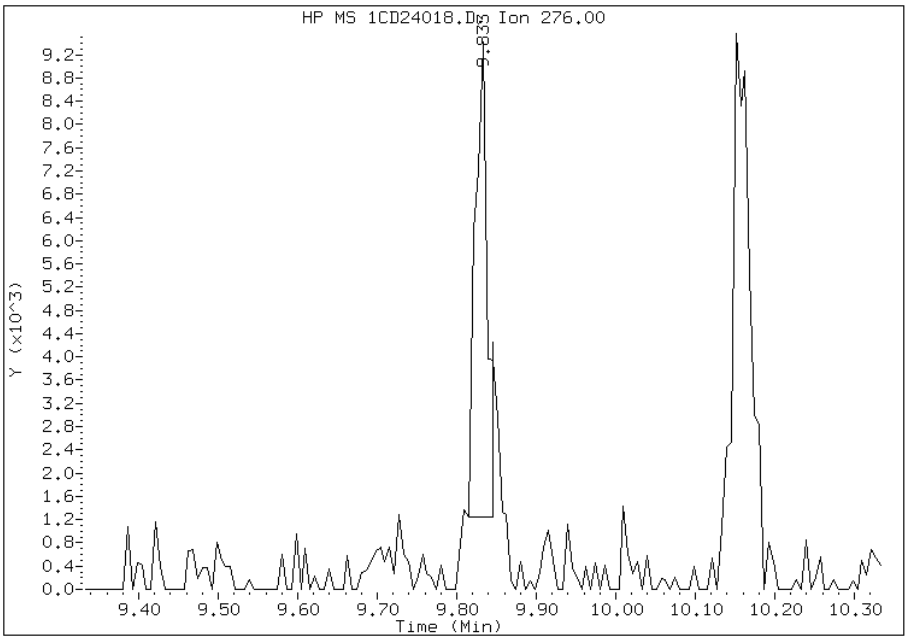
Processing Integration Results

RT: 9.83

Response: 8650

Amount: 2

Conc: 535



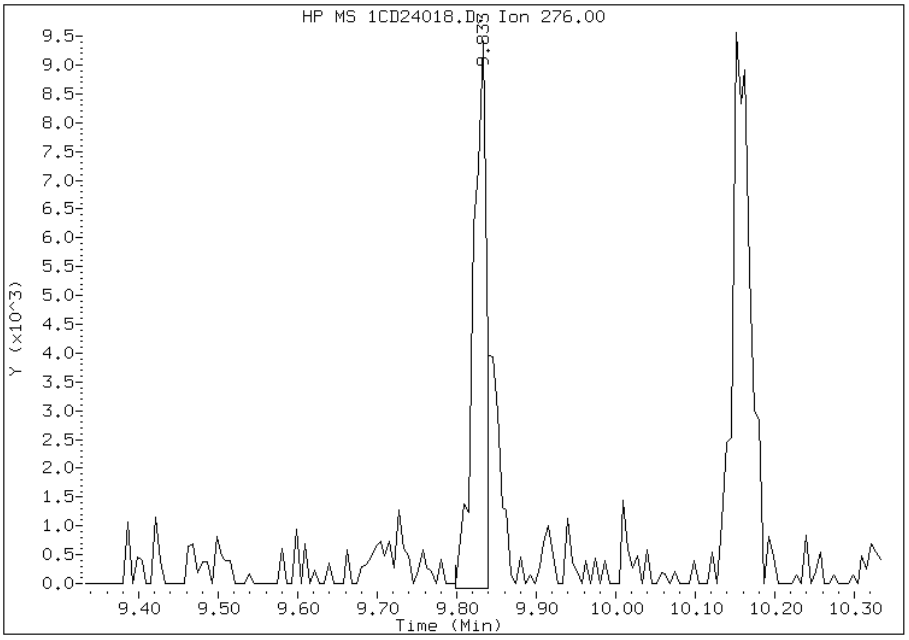
Manual Integration Results

RT: 9.83

Response: 10891

Amount: 2

Conc: 631



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: 680-89328-A-8-C MSD

Matrix: Solid | Lab File ID: 1CD22018.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/19/2013 11:14

Sample wt/vol: 14.96(g) | Date Analyzed: 04/22/2013 17:10

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	551		500	99
208-96-8	Acenaphthylene	580		200	25
120-12-7	Anthracene	661		42	21
56-55-3	Benzo[a]anthracene	1190		40	19
50-32-8	Benzo[a]pyrene	1060		52	26
205-99-2	Benzo[b]fluoranthene	1300		60	30
191-24-2	Benzo[g,h,i]perylene	868		99	22
207-08-9	Benzo[k]fluoranthene	840		40	18
218-01-9	Chrysene	1240		45	22
53-70-3	Dibenz(a,h)anthracene	611		99	20
206-44-0	Fluoranthene	1860		99	20
86-73-7	Fluorene	601		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	1030		99	35
90-12-0	1-Methylnaphthalene	439		200	22
91-57-6	2-Methylnaphthalene	528		200	35
91-20-3	Naphthalene	476		200	22
85-01-8	Phenanthrene	1250		40	19
129-00-0	Pyrene	1680		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22018.D
Lab Smp Id: 680-89328-a-8-c msd
Inj Date : 22-APR-2013 17:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89328-a-8-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 18 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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.651	3.651	(1.000)	215035	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	137990	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	254165	40.0000	
$	14 o-Terphenyl	230	5.927	5.933	(1.043)	5608	2.02208	540.6635
*	18 Chrysene-d12	240	7.609	7.615	(1.000)	301869	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	310059	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	8368	1.43960	384.9194
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	5153	1.59824	427.3363
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	4933	1.32859	355.2387
	5 Acenaphthylene	152	4.651	4.651	(0.981)	10268	1.75607	469.5372
	7 Acenaphthene	154	4.757	4.757	(1.004)	5874	1.66698	445.7161
	9 Fluorene	166	5.074	5.080	(1.071)	8150	1.81749	485.9587
	11 Phenanthrene	178	5.698	5.698	(1.003)	28232	3.78967	1013.2819(R)
	12 Anthracene	178	5.727	5.733	(1.008)	14751	1.99914	534.5284

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	13379	1.94685	520.5472
15 Fluoranthene	202	6.527	6.527	(1.149)	46309	5.61650	1501.7386(R)
16 Pyrene	202	6.692	6.692	(0.879)	43747	5.09405	1362.0463(R)
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	30718	3.59853	962.1738(R)
19 Chrysene	228	7.633	7.633	(1.003)	31586	3.74043	1000.1137(R)
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	30772	3.92936	1050.6312(R)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	22532	2.54267	679.8591
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	25963	3.20725	857.5536
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	19971	3.12264	834.9292(M)
25 Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	11139	1.84998	494.6463
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	19927	2.62627	702.2111

QC Flag Legend

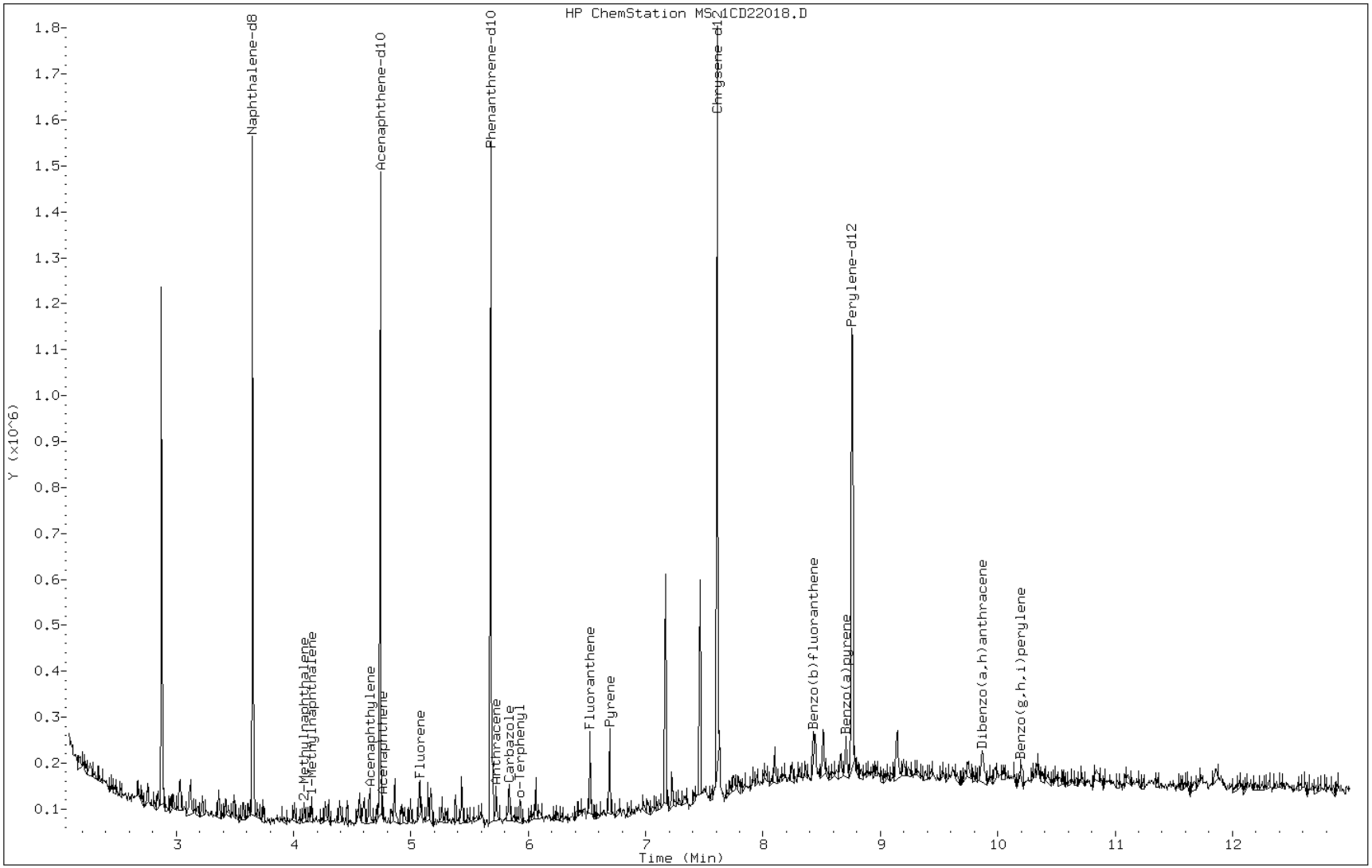
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD22018.D

Date: 22-APR-2013 17:10

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-c msd Operator: SCC



Manual Integration Report

Data File: 1CD22018.D
Inj. Date and Time: 22-APR-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

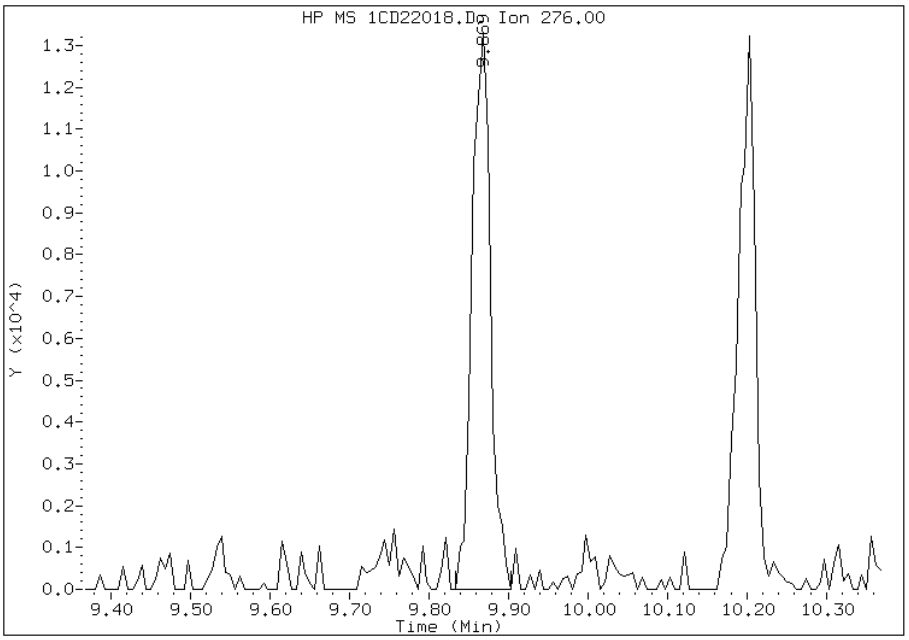
Processing Integration Results

RT: 9.87

Response: 21422

Amount: 3

Conc: 883



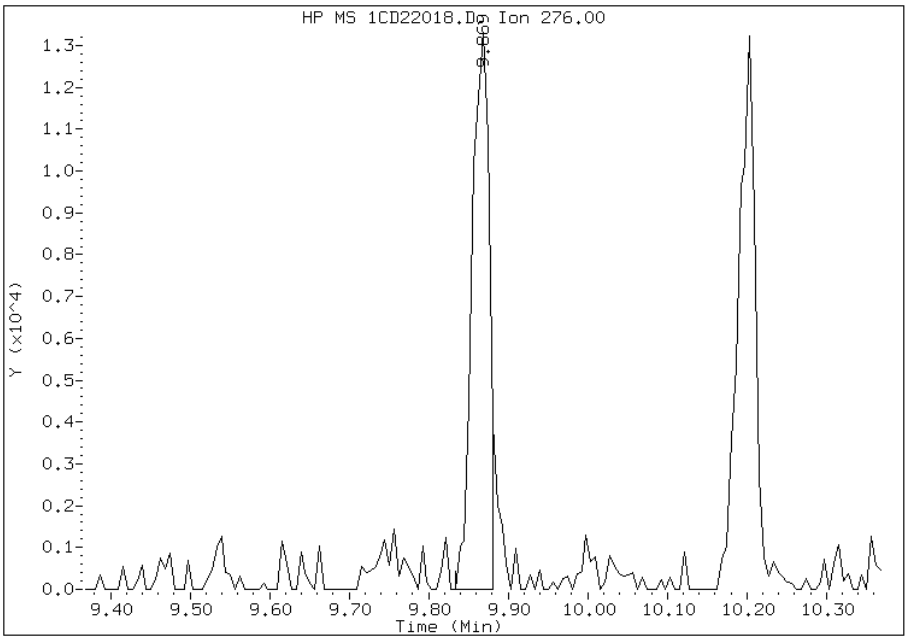
Manual Integration Results

RT: 9.87

Response: 19971

Amount: 3

Conc: 835



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: CV1001A-CS MSD | Lab Sample ID: 680-89421-1 MSD

Matrix: Solid | Lab File ID: 1CD24019.D

Analysis Method: 8270C LL | Date Collected: 04/15/2013 13:10

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.99(g) | Date Analyzed: 04/24/2013 17:52

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.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	543		520	100
208-96-8	Acenaphthylene	662		210	26
120-12-7	Anthracene	660		44	22
56-55-3	Benzo[a]anthracene	1270		42	20
50-32-8	Benzo[a]pyrene	1100		54	27
205-99-2	Benzo[b]fluoranthene	1290		63	32
191-24-2	Benzo[g,h,i]perylene	868		100	23
207-08-9	Benzo[k]fluoranthene	1030		42	19
218-01-9	Chrysene	1290		47	23
53-70-3	Dibenz(a,h)anthracene	665		100	21
206-44-0	Fluoranthene	1700		100	21
86-73-7	Fluorene	800		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	852		100	37
90-12-0	1-Methylnaphthalene	1200		210	23
91-57-6	2-Methylnaphthalene	1300		210	37
91-20-3	Naphthalene	1020		210	23
85-01-8	Phenanthrene	1750		42	20
129-00-0	Pyrene	1470		100	19

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\1C042413.b\1CD24019.D
Lab Smp Id: 680-89421-a-1-c msd
Inj Date : 24-APR-2013 17:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.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	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.633	3.634	(1.000)	154110	40.0000	
* 6	Acenaphthene-d10	164	4.721	4.722	(1.000)	101315	40.0000	
* 10	Phenanthrene-d10	188	5.663	5.663	(1.000)	195570	40.0000	
$ 14	o-Terphenyl	230	5.910	5.910	(1.044)	6061	2.13456	569.5948
* 18	Chrysene-d12	240	7.586	7.592	(1.000)	245677	40.0000	
* 23	Perylene-d12	264	8.733	8.733	(1.000)	249914	40.0000	
2	Naphthalene	128	3.645	3.646	(1.003)	12536	2.94471	785.7796
3	2-Methylnaphthalene	142	4.074	4.075	(1.121)	9793	3.74615	999.6410(R)
4	1-Methylnaphthalene	142	4.133	4.134	(1.138)	9536	3.45816	922.7915(R)
5	Acenaphthylene	152	4.633	4.634	(0.981)	8373	1.90978	509.6132
7	Acenaphthene	154	4.739	4.740	(1.004)	4486	1.56645	417.9992(Q)
9	Fluorene	166	5.057	5.057	(1.071)	8040	2.30762	615.7757
11	Phenanthrene	178	5.674	5.675	(1.002)	27000	5.04223	1345.4923(R)
12	Anthracene	178	5.710	5.710	(1.008)	10343	1.90514	508.3768

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.816	5.822	(1.027)	11375	2.11341	563.9527
15 Fluoranthene	202	6.504	6.504	(1.149)	31838	4.89927	1307.3445(R)
16 Pyrene	202	6.668	6.675	(0.879)	30824	4.24825	1133.6231(R)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	23587	3.66727	978.5915(R)
19 Chrysene	228	7.610	7.610	(1.003)	26177	3.73134	995.6875(R)
20 Benzo(b)fluoranthene	252	8.404	8.410	(0.962)	25781	3.72997	995.3222(R)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.965)	20030	2.97833	794.7515
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	20347	3.18815	850.7395
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.833	(1.125)	12796	2.45983	656.3935(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	11636	1.92011	512.3712
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.163)	15804	2.50450	668.3111(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD24019.D

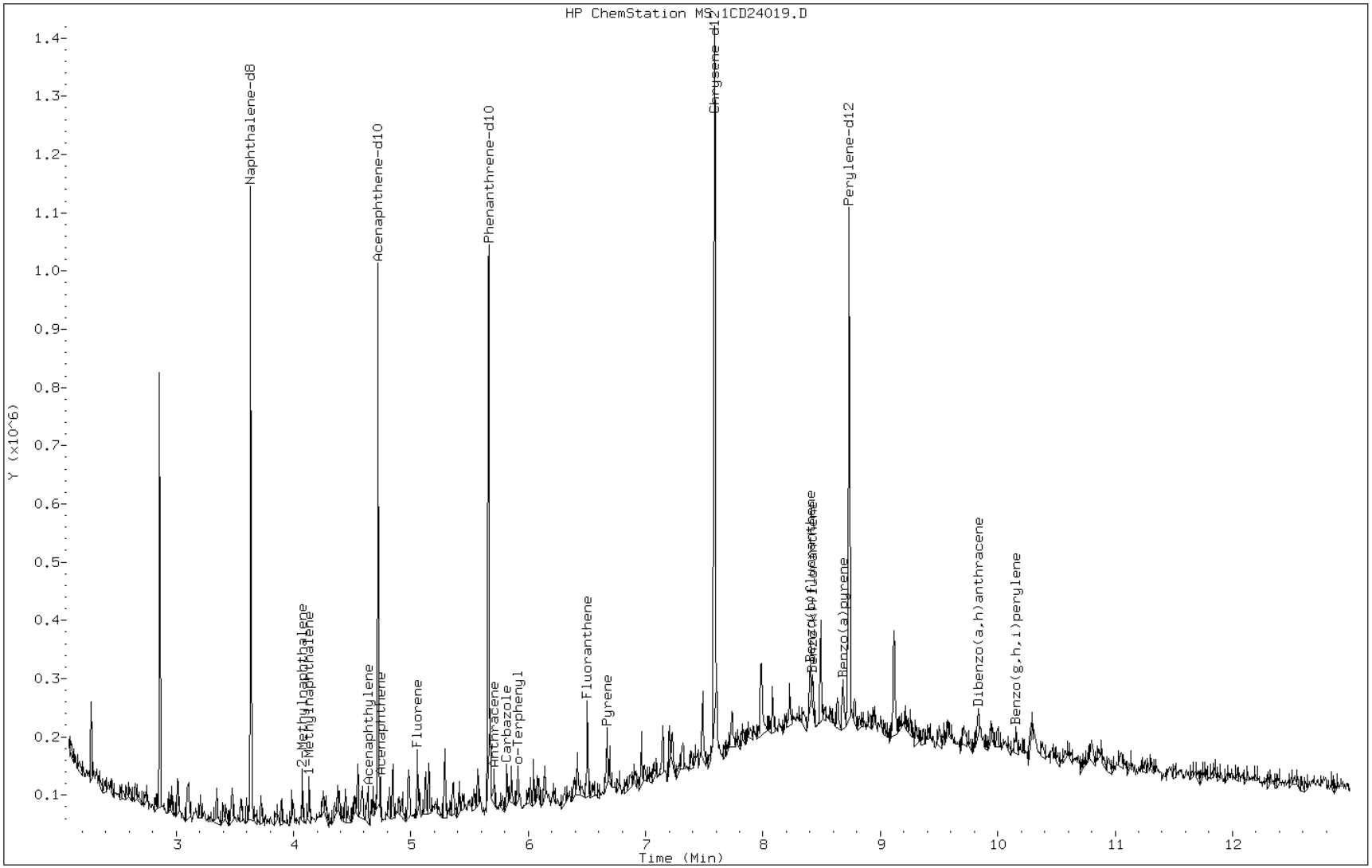
Date: 24-APR-2013 17:52

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-c msd

Operator: SCC



Manual Integration Report

Data File: 1CD24019.D
Inj. Date and Time: 24-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

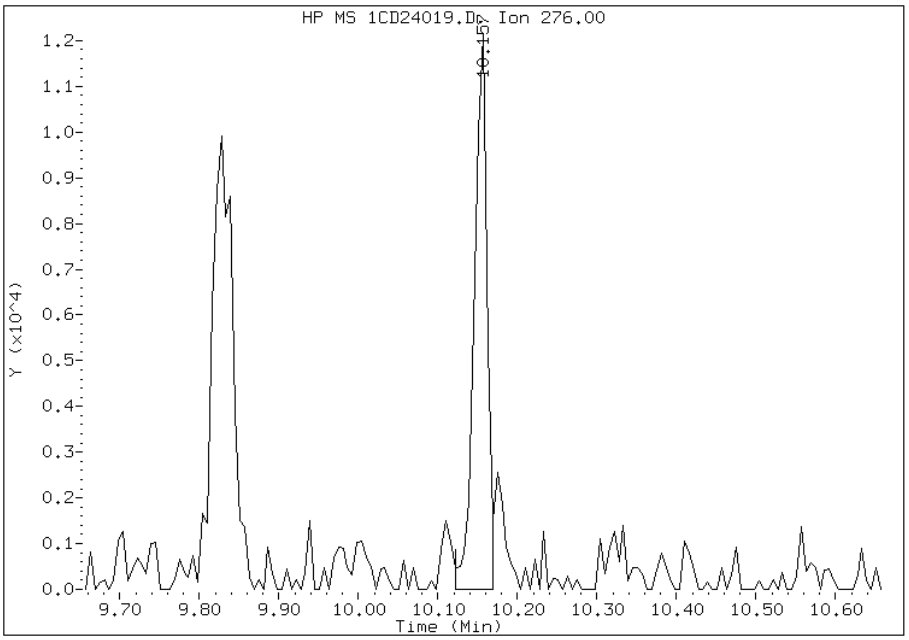
Processing Integration Results

RT: 10.16

Response: 13602

Amount: 2

Conc: 575



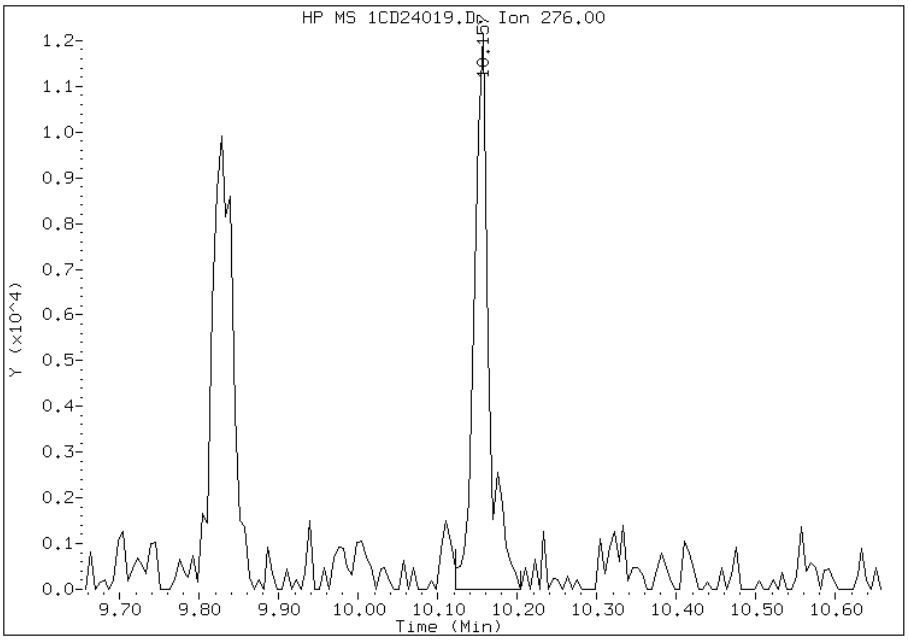
Manual Integration Results

RT: 10.16

Response: 15804

Amount: 3

Conc: 668



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24019.D
Inj. Date and Time: 24-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

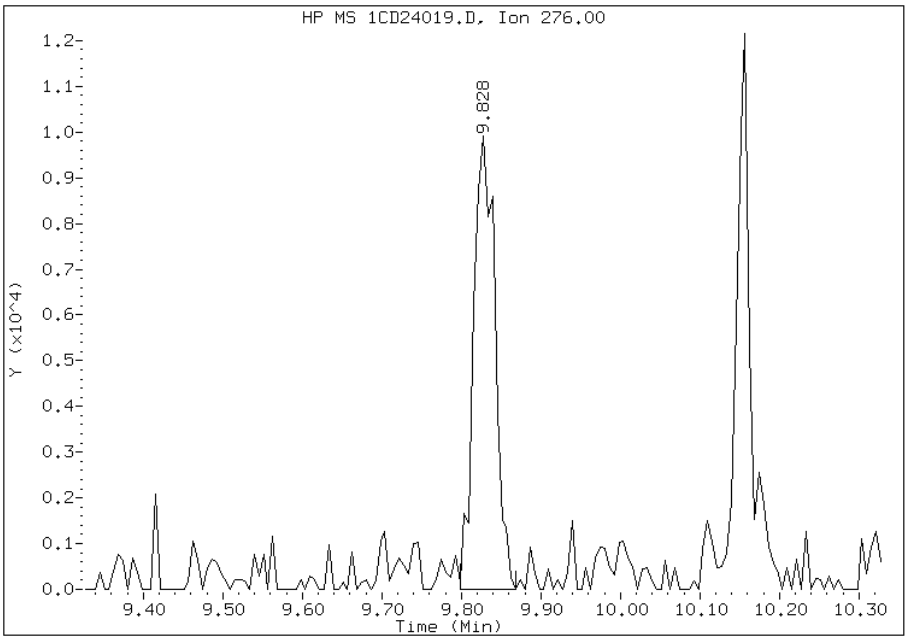
Processing Integration Results

RT: 9.83

Response: 18310

Amount: 3

Conc: 868



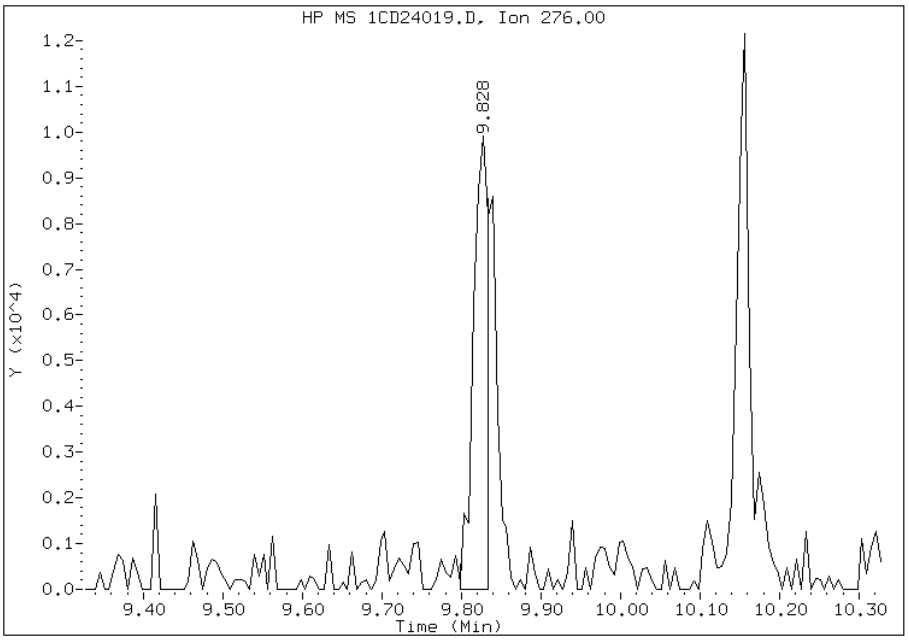
Manual Integration Results

RT: 9.83

Response: 12796

Amount: 2

Conc: 656



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89421-1

SDG No.: 68089421-1

Client Sample ID: | Lab Sample ID: 680-89275-A-1-A DU

Matrix: Water | Lab File ID: 1CD18015.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/17/2013 12:20

Sample wt/vol: 850(mL) | Date Analyzed: 04/18/2013 15:41

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.: 136605 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.4	U	2.4	0.59
208-96-8	Acenaphthylene	1.2	U	1.2	0.29
120-12-7	Anthracene	0.24	U	0.24	0.089
56-55-3	Benzo[a]anthracene	0.24	U	0.24	0.059
50-32-8	Benzo[a]pyrene	0.24	U	0.24	0.067
205-99-2	Benzo[b]fluoranthene	0.24	U	0.24	0.059
191-24-2	Benzo[g,h,i]perylene	0.59	U	0.59	0.12
207-08-9	Benzo[k]fluoranthene	0.24	U	0.24	0.067
218-01-9	Chrysene	0.24	U	0.24	0.081
53-70-3	Dibenz(a,h)anthracene	0.24	U	0.24	0.059
206-44-0	Fluoranthene	0.59	U	0.59	0.064
86-73-7	Fluorene	2.4	U	2.4	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	0.24	U	0.24	0.059
90-12-0	1-Methylnaphthalene	2.4	U	2.4	0.59
91-57-6	2-Methylnaphthalene	2.4	U	2.4	0.59
91-20-3	Naphthalene	2.4	U	2.4	0.29
85-01-8	Phenanthrene	0.59	U	0.59	0.24
129-00-0	Pyrene	0.59	U	0.59	0.10

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\1C041813.b\1CD18015.D
Lab Smp Id: 680-89275-a-1-a du
Inj Date : 18-APR-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-a-1-a du
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041813.b\a-bFASTPAHi-m.m
Meth Date : 18-Apr-2013 14:22 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	850.000	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

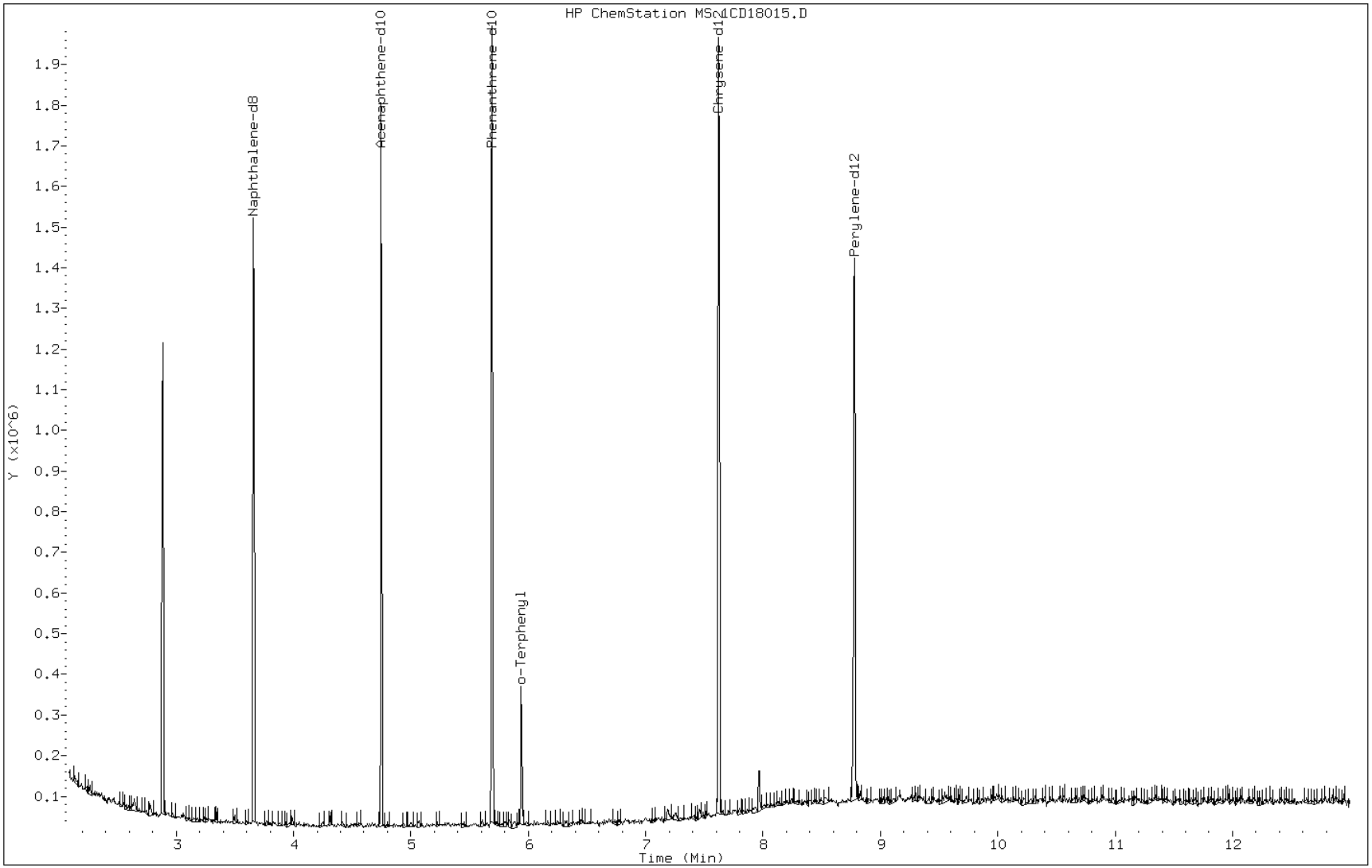
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
* 1 Naphthalene-d8	136	3.657	3.663	(1.000)	271177	40.0000	
* 6 Acenaphthene-d10	164	4.745	4.745	(1.000)	189753	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.692	(1.000)	358798	40.0000	
$ 14 o-Terphenyl	230	5.939	5.945	(1.043)	32221	6.11266	7.1913
* 18 Chrysene-d12	240	7.621	7.627	(1.000)	462318	40.0000	
* 23 Perylene-d12	264	8.780	8.780	(1.000)	445114	40.0000	

Data File: 1CD18015.D

Date: 18-APR-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89275-a-1-a du Operator: SCC



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Start Date: 04/11/2013 11:01

Analysis Batch Number: 136370 End Date: 04/11/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 11:01	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 11:20	1		DB-5MS 250(um)
DFTPP 660-136370/2		04/11/2013 11:38	1	1CD11002.D	DB-5MS 250(um)
ICIS 660-136370/3		04/11/2013 11:56	1	1CD11003.D	DB-5MS 250(um)
IC 660-136370/4		04/11/2013 12:35	1	1CD11004.D	DB-5MS 250(um)
IC 660-136370/5		04/11/2013 12:53	1	1CD11005.D	DB-5MS 250(um)
IC 660-136370/6		04/11/2013 13:11	1	1CD11006.D	DB-5MS 250(um)
IC 660-136370/7		04/11/2013 13:30	1	1CD11007.D	DB-5MS 250(um)
IC 660-136370/8		04/11/2013 13:48	1	1CD11008.D	DB-5MS 250(um)
IC 660-136370/9		04/11/2013 14:06	1	1CD11009.D	DB-5MS 250(um)
ICV 660-136370/10		04/11/2013 14:25	1	1CD11010.D	DB-5MS 250(um)
ZZZZZ		04/11/2013 14:51	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:10	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:05	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:41	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:26	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:44	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:03	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:21	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:39	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:58	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:53	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Start Date: 04/18/2013 11:08

Analysis Batch Number: 136605 End Date: 04/18/2013 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/18/2013 11:08	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 11:26	1		DB-5MS 250(um)
DFTPP 660-136605/2		04/18/2013 11:44	1	1CD18002.D	DB-5MS 250(um)
CCVIS 660-136605/3		04/18/2013 12:01	1	1CD18003.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 12:19	1		DB-5MS 250(um)
MB 660-136534/1-A		04/18/2013 12:37	1	1CD18005.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 12:56	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 13:14	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 13:32	1		DB-5MS 250(um)
640-42984-B-1-C MS		04/18/2013 13:51	1	1CD18009.D	DB-5MS 250(um)
LCS 660-136534/2-A		04/18/2013 14:09	1	1CD18010.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 14:27	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 14:46	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 15:04	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 15:22	1		DB-5MS 250(um)
680-89275-A-1-A DU		04/18/2013 15:41	1	1CD18015.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 15:59	1		DB-5MS 250(um)
680-89421-10	041513-RB-Shovel	04/18/2013 16:17	1	1CD18017.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 16:36	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 17:12	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 17:30	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 17:49	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 18:07	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 18:25	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 18:44	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:02	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:20	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:39	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:57	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 20:15	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 20:34	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 20:52	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 21:10	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 21:29	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 21:47	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 22:05	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 22:24	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 22:42	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 23:00	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 23:19	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 23:37	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Start Date: 04/22/2013 10:57

Analysis Batch Number: 136698 End Date: 04/22/2013 22:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 10:57	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 11:15	1		DB-5MS 250(um)
DFTPP 660-136698/2		04/22/2013 11:33	1	1CD22002.D	DB-5MS 250(um)
CCVIS 660-136698/3		04/22/2013 11:50	1	1CD22003.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 12:12	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 12:30	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 12:48	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:07	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:26	10		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:05	10		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:33	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:51	25		DB-5MS 250(um)
MB 660-136637/1-A		04/22/2013 15:20	1	1CD22012.D	DB-5MS 250(um)
LCS 660-136637/2-A		04/22/2013 15:38	1	1CD22013.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:15	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:33	4		DB-5MS 250(um)
680-89328-A-8-B MS		04/22/2013 16:51	4	1CD22017.D	DB-5MS 250(um)
680-89328-A-8-C MSD		04/22/2013 17:10	4	1CD22018.D	DB-5MS 250(um)
680-89421-2	CV1082A-CS	04/22/2013 17:28	1	1CD22019.D	DB-5MS 250(um)
680-89421-3	CV1082A-CSD	04/22/2013 17:46	1	1CD22020.D	DB-5MS 250(um)
680-89421-4	CV0745A-CS-SP	04/22/2013 18:05	4	1CD22021.D	DB-5MS 250(um)
680-89421-5	CV0745B-CS-SP	04/22/2013 18:23	1	1CD22022.D	DB-5MS 250(um)
680-89421-6	FM0060A-CS-SP	04/22/2013 18:41	4	1CD22023.D	DB-5MS 250(um)
680-89421-7	FM0106A-CS-SP	04/22/2013 19:00	1	1CD22024.D	DB-5MS 250(um)
680-89421-8	FM0106B-CS-SP	04/22/2013 19:18	1	1CD22025.D	DB-5MS 250(um)
680-89421-9	FM0106C-CS-SP	04/22/2013 19:36	1	1CD22026.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:31	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:50	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:08	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:26	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:45	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 22:03	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 22:22	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: BSMC5973 Start Date: 04/24/2013 09:38

Analysis Batch Number: 136792 End Date: 04/25/2013 00:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/24/2013 09:38	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 10:05	1		DB-5MS 250(um)
DFTPP 660-136792/2		04/24/2013 10:23	1		DB-5MS 250(um)
DFTPP 660-136792/3		04/24/2013 10:47	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 12:43	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 13:01	1		DB-5MS 250(um)
DFTPP 660-136792/6		04/24/2013 13:20	1		DB-5MS 250(um)
DFTPP 660-136792/7		04/24/2013 13:40	1	1CD24006.D	DB-5MS 250(um)
ICIS 660-136792/8		04/24/2013 13:57	1	1CD24007.D	DB-5MS 250(um)
IC 660-136792/9		04/24/2013 14:16	1	1CD24008.D	DB-5MS 250(um)
IC 660-136792/10		04/24/2013 14:34	1	1CD24009.D	DB-5MS 250(um)
IC 660-136792/11		04/24/2013 14:52	1	1CD24010.D	DB-5MS 250(um)
IC 660-136792/12		04/24/2013 15:11	1	1CD24011.D	DB-5MS 250(um)
IC 660-136792/13		04/24/2013 15:29	1	1CD24012.D	DB-5MS 250(um)
IC 660-136792/14		04/24/2013 15:47	1	1CD24013.D	DB-5MS 250(um)
ICV 660-136792/15		04/24/2013 16:06	1	1CD24014.D	DB-5MS 250(um)
MB 660-136731/1-A		04/24/2013 16:40	1	1CD24015.D	DB-5MS 250(um)
LCS 660-136731/2-A		04/24/2013 16:58	1	1CD24016.D	DB-5MS 250(um)
680-89421-1	CV1001A-CS	04/24/2013 17:16	4	1CD24017.D	DB-5MS 250(um)
680-89421-1 MS	CV1001A-CS MS	04/24/2013 17:34	4	1CD24018.D	DB-5MS 250(um)
680-89421-1 MSD	CV1001A-CS MSD	04/24/2013 17:52	4	1CD24019.D	DB-5MS 250(um)
ZZZZZ		04/24/2013 18:11	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 18:29	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 18:47	4		DB-5MS 250(um)
ZZZZZ		04/24/2013 19:05	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 19:42	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 20:00	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 20:37	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 20:55	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 21:14	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 21:32	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 21:51	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 22:09	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 22:27	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 22:46	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 23:04	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 23:23	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 23:41	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 23:59	4		DB-5MS 250(um)
ZZZZZ		04/25/2013 00:18	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 00:36	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 00:55	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136534 Batch Start Date: 04/17/13 12:20 Batch Analyst: Cerome, Saurel

Batch Method: 3520C Batch End Date: 04/18/13 07:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136534/1		3520C, 8270C LL		1000 mL	1 mL	8	<2		1 mL
LCS 660-136534/2		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
640-42984-B-1-A MS		3520C, 8270C LL	E	950 mL	1 mL	8	<2	1 mL	1 mL
680-89275-A-1 DU		3520C, 8270C LL	T	850 mL	1 mL	8	<2		1 mL
680-89421-A-10	041513-RB-Shovel	3520C, 8270C LL	T	980 mL	1 mL	8	<2		1 mL

Batch Notes	
Acid used for pH adjustment	10H2S04
Acid used for pH adjust Lot #	EX 10H2S04 _6
Batch Comment	RUSH
Concentration End Time	7.20/4/18/13
Concentration Start Time	6.10/4/18/13
Person's name who did the concentration	AG
Time the first extraction ended 24hr	19.00/4/17/13
Time the first extraction started 24 hr	15.00/4/17/13
pH Paper Lot Number	HC 273036
Prep Solvent Lot #	EX MC CYCL _55
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	SAUREL
Person's name who witnessed reagent drop	AG
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TURBOVAP2#1/2
Water Bath Temperature	40 C Celsius

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.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136534 Batch Start Date: 04/17/13 12:20 Batch Analyst: Cerome, Saurel

Batch Method: 3520C Batch End Date: 04/18/13 07:45

Basis	Basis Description
T	Total/NA
E	SPLP East

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.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136637 Batch Start Date: 04/19/13 11:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/19/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136637/1		3546, 8270C LL		15.41 g	1 mL		1 mL		
LCS 660-136637/2		3546, 8270C LL		15.15 g	1 mL	1 mL	1 mL		
680-89328-A-8 MS		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89328-A-8 MSD		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89421-A-2	CV1082A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89421-A-3	CV1082A-CSD	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-89421-A-4	CV0745A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-89421-A-5	CV0745B-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-89421-A-6	FM0060A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-89421-A-7	FM0106A-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-89421-A-8	FM0106B-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-89421-A-9	FM0106C-CS-SP	3546, 8270C LL	T	15.22 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.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136637 Batch Start Date: 04/19/13 11:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/19/13 16:20

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
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 70
Microwave Start Time	13:00 4/19/13
Microwave Stop Time	13:35 4/19/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT_179
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.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136731 Batch Start Date: 04/23/13 10:36 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/23/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136731/1		3546, 8270C LL		14.98 g	1 mL		1 mL		
LCS 660-136731/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL		
680-89421-A-1	CV1001A-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-89421-A-1 MS	CV1001A-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89421-A-1 MSD	CV1001A-CS	3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
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 71
Microwave Start Time	12:00 4/23/13
Microwave Stop Time	12:35 4/23/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	RYAN
SOP Number	TP-EX-014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136731 Batch Start Date: 04/23/13 10:36 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/23/13 15:45

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: 680-89421-1

SDG No.: 68089421-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1001A-CS	680-89421-1
CV1082A-CS	680-89421-2
CV1082A-CSD	680-89421-3
CV0745A-CS-SP	680-89421-4
CV0745B-CS-SP	680-89421-5
FM0060A-CS-SP	680-89421-6
FM0106A-CS-SP	680-89421-7
FM0106B-CS-SP	680-89421-8
FM0106C-CS-SP	680-89421-9

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89421-1

SDG Number: 68089421-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89421-1

SDG Number: 68089421-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/18/2013 11:34 End Date: 04/18/2013 11:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
680-89421-5	1	T	11:34	X																			
680-89421-4	1	T	11:34	X																			
680-89421-1	1	T	11:34	X																			
680-89421-1 MS	1	T	11:34	X																			
680-89421-1 MSD	1	T	11:34	X																			
680-89421-7	1	T	11:34	X																			
680-89421-9	1	T	11:34	X																			
680-89421-8	1	T	11:34	X																			
680-89421-2	1	T	11:34	X																			
680-89421-3	1	T	11:34	X																			
680-89421-6	1	T	11:34	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89421-1

SDG No.: 68089421-1

Batch Number: 136584 Batch Start Date: 04/18/13 11:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89421-A-5	CV0745B-CS-SP	Moisture	T	1	0 g	4.42 g	3.78 g		
680-89421-A-4	CV0745A-CS-SP	Moisture	T	2	0 g	4.38 g	3.39 g		
680-89421-A-1	CV1001A-CS	Moisture	T	3	0 g	4.35 g	3.35 g		
680-89421-A-1 MS	CV1001A-CS	Moisture	T	3	0 g	4.35 g	3.35 g		
680-89421-A-1 MSD	CV1001A-CS	Moisture	T	3	0 g	4.35 g	3.35 g		
680-89421-A-7	FM0106A-CS-SP	Moisture	T	4	0 g	4.54 g	3.69 g		
680-89421-A-9	FM0106C-CS-SP	Moisture	T	5	0 g	4.46 g	3.55 g		
680-89421-A-8	FM0106B-CS-SP	Moisture	T	6	0 g	4.61 g	3.65 g		
680-89421-A-2	CV1082A-CS	Moisture	T	7	0 g	4.73 g	3.66 g		
680-89421-A-3	CV1082A-CSD	Moisture	T	8	0 g	4.67 g	3.65 g		
680-89421-A-6	FM0060A-CS-SP	Moisture	T	9	0 g	4.41 g	3.57 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.18.13
Date samples were removed from oven	4.19.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59209

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Test America, Tampa
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 1

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	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 7 PAH	REQUIRED ANALYSIS: RCRA 8 Metals	PRESERVATIVE	REMARKS
4-15-13	1310	CV1001A-CS			X			X	X		
	1245	CV1082A-CS			X			X			
	1245	CV1082A-CSD			X			X			
	1325	CV0745A-CS-SP			X			X			
	1345	CV0745B-CS-SP			X			X			
	1425	FM0060A-CS-SP			X			X			0060A percent - MH 4-19-13
	1500	FM0106A-CS-SP			X			X			
	1515	FM0106B-CS-SP			X			X			
	1520	FM0106C-CS-SP			X			X			
	1600	041513-RB-Shovel		X				X	X		
	1310	CV1001A-CS (sieve)							X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-16-13	1000						
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
C Nelson Edwards	4/17/13	840	YES ( ) NO ( )		680-89421	4 jars CV-07

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
SDG Number: 68089421-1

Login Number: 89421
List Number: 1
Creator: Daughtry, Beth

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.	False	Sample -6 Id on COC does not match container label (date/time match)
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: 680-89421-1
SDG Number: 68089421-1

Login Number: 89421
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/17/13 04:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
SDG Number: 68089421-1

Login Number: 89421
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/23/13 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-89421-1
TestAmerica Sample Delivery Group: 68089421-1
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
4/26/2013 5:01:29 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-89421-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89421-1

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

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

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

RECEIPT

The samples were received on 04/17/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1001A-CS (680-89421-1), CV1082A-CS (680-89421-2), CV1082A-CSD (680-89421-3), CV0745A-CS-SP (680-89421-4), CV0745B-CS-SP (680-89421-5), FM0060A-CS-SP (680-89421-6), FM0106A-CS-SP (680-89421-7), FM0106B-CS-SP (680-89421-8) and FM0106C-CS-SP (680-89421-9) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/22/2013 and 04/24/2013.

Samples CV1001A-CS (680-89421-1)[4X], CV0745A-CS-SP (680-89421-4)[4X] and FM0060A-CS-SP (680-89421-6)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

For the MSD of sample 680-89328-8 in batch 660-136698, 1-Methylnaphthalene and 2-Methylnaphthalene recovered outside the recovery criteria. Also, Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene exceeded the rpd limit.

Fluoranthene and Phenanthrene recovered outside of the recovery criteria for the MSD of sample CV1001A-CS (680-89421-1) in batch 660-136792.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 041513-RB-Shovel (680-89421-10) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/17/2013 and analyzed on 04/18/2013.

No difficulties were encountered during the semivolatiles analysis.

All 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: 680-89421-1
SDG: 68089421-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89421-1	CV1001A-CS	Solid	04/15/13 13:10	04/17/13 08:40
680-89421-2	CV1082A-CS	Solid	04/15/13 12:45	04/17/13 08:40
680-89421-3	CV1082A-CSD	Solid	04/15/13 12:45	04/17/13 08:40
680-89421-4	CV0745A-CS-SP	Solid	04/15/13 13:25	04/17/13 08:40
680-89421-5	CV0745B-CS-SP	Solid	04/15/13 13:45	04/17/13 08:40
680-89421-6	FM0060A-CS-SP	Solid	04/15/13 14:25	04/17/13 08:40
680-89421-7	FM0106A-CS-SP	Solid	04/15/13 15:00	04/17/13 08:40
680-89421-8	FM0106B-CS-SP	Solid	04/15/13 15:15	04/17/13 08:40
680-89421-9	FM0106C-CS-SP	Solid	04/15/13 15:20	04/17/13 08:40
680-89421-10	041513-RB-Shovel	Water	04/15/13 16:00	04/17/13 08:40

Method Summary

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

TestAmerica Job ID: 680-89421-1
SDG: 68089421-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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: 680-89421-1
SDG: 68089421-1

Client Sample ID: CV1001A-CS

Lab Sample ID: 680-89421-1
Date Collected: 04/15/13 13:10
Matrix: Solid
Date Received: 04/17/13 08:40
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	520	U	520	100	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Anthracene	**160**		43	22	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[a]anthracene	**720**		41	20	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[a]pyrene	**420**		54	27	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[b]fluoranthene	**700**		63	32	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[g,h,i]perylene	**380**		100	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Benzo[k]fluoranthene	**130**		41	19	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Chrysene	**480**		47	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Dibenz(a,h)anthracene	**73**	**J**	100	21	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Fluoranthene	**500**	**F**	100	21	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Fluorene	100	U	100	21	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Indeno[1,2,3-cd]pyrene	**420**		100	37	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
1-Methylnaphthalene	**230**		210	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
2-Methylnaphthalene	**470**		210	37	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Naphthalene	**300**		210	23	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Phenanthrene	**540**	**F**	41	20	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4
Pyrene	**590**		100	19	ug/Kg	☼	04/23/13 10:36	04/24/13 17:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/23/13 10:36*	*04/24/13 17:16*	*4*

Client Sample ID: CV1082A-CS

Lab Sample ID: 680-89421-2
Date Collected: 04/15/13 12:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Acenaphthylene	**52**		52	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Anthracene	**29**		11	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[a]anthracene	**120**		10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[a]pyrene	**100**		13	6.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[b]fluoranthene	**180**		16	7.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[g,h,i]perylene	**84**		26	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Benzo[k]fluoranthene	**58**		10	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Chrysene	**130**		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Dibenz(a,h)anthracene	**88**		26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Fluoranthene	**150**		26	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Fluorene	**12**	**J**	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Indeno[1,2,3-cd]pyrene	**110**		26	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
1-Methylnaphthalene	**33**	**J**	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
2-Methylnaphthalene	**66**		52	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Naphthalene	**28**	**J**	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Phenanthrene	**100**		10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1
Pyrene	**130**		26	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/19/13 11:14*	*04/22/13 17:28*	*1*

Client Sample ID: CV1082A-CSD

Lab Sample ID: 680-89421-3

Date Collected: 04/15/13 12:45
Date Received: 04/17/13 08:40

Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**34**	**J**	130	25	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Acenaphthylene	**270**		50	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Anthracene	**150**		11	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[a]anthracene	**1300**		10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[a]pyrene	**1300**		13	6.6	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[b]fluoranthene	**1900**		15	7.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[g,h,i]perylene	**820**		25	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Benzo[k]fluoranthene	**730**		10	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Chrysene	**1500**		11	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Dibenz(a,h)anthracene	**230**		25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Fluoranthene	**3000**		25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Fluorene	**42**		25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Indeno[1,2,3-cd]pyrene	**770**		25	8.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
1-Methylnaphthalene	**41**	**J**	50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
2-Methylnaphthalene	**84**		50	8.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Naphthalene	**42**	**J**	50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Phenanthrene	**930**		10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1
Pyrene	**2600**		25	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*04/19/13 11:14*	*04/22/13 17:46*	*1*

Client Sample ID: CV0745A-CS-SP

Lab Sample ID: 680-89421-4

Date Collected: 04/15/13 13:25
Date Received: 04/17/13 08:40

Matrix: Solid
Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Anthracene	44	U	44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[a]anthracene	41	U	41	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[a]pyrene	**190**		54	27	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[b]fluoranthene	**280**		63	32	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[g,h,i]perylene	**200**		100	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Benzo[k]fluoranthene	**110**		41	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Chrysene	**200**		47	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Fluoranthene	**310**		100	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Fluorene	**34**	**J**	100	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Indeno[1,2,3-cd]pyrene	100	U	100	37	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
1-Methylnaphthalene	**86**	**J**	210	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
2-Methylnaphthalene	**170**	**J**	210	37	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Naphthalene	**84**	**J**	210	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Phenanthrene	**180**		41	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4
Pyrene	**250**		100	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*30 - 130*	*04/19/13 11:14*	*04/22/13 18:05*	*4*

Client Sample ID: CV0745B-CS-SP

Lab Sample ID: 680-89421-5

Date Collected: 04/15/13 13:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 85.5

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	23	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Acenaphthylene	**15**	**J**	46	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Anthracene	**32**		9.8	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[a]anthracene	**150**		9.3	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[a]pyrene	**140**		12	6.0	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[b]fluoranthene	**330**		14	7.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[g,h,i]perylene	**160**		23	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Benzo[k]fluoranthene	**65**		9.3	4.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Chrysene	**200**		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Dibenz(a,h)anthracene	**79**		23	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Fluoranthene	**250**		23	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Fluorene	**21**	**J**	23	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Indeno[1,2,3-cd]pyrene	**130**		23	8.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
1-Methylnaphthalene	**94**		46	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
2-Methylnaphthalene	**180**		46	8.2	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Naphthalene	**120**		46	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Phenanthrene	**220**		9.3	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1
Pyrene	**210**		23	4.3	ug/Kg	☼	04/19/13 11:14	04/22/13 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*04/19/13 11:14*	*04/22/13 18:23*	*1*

Client Sample ID: FM0060A-CS-SP

Lab Sample ID: 680-89421-6

Date Collected: 04/15/13 14:25
Matrix: Solid
Date Received: 04/17/13 08:40
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	490	U	490	98	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Anthracene	**31**	**J**	41	21	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[a]anthracene	39	U	39	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[a]pyrene	**140**		51	26	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[b]fluoranthene	**230**		60	30	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[g,h,i]perylene	**170**		98	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Benzo[k]fluoranthene	**120**		39	18	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Chrysene	**150**		44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Fluoranthene	**250**		98	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Fluorene	98	U	98	20	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Indeno[1,2,3-cd]pyrene	**390**		98	35	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
1-Methylnaphthalene	**55**	**J**	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
2-Methylnaphthalene	**150**	**J**	200	35	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Naphthalene	**55**	**J**	200	22	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Phenanthrene	39	U	39	19	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4
Pyrene	**340**		98	18	ug/Kg	☼	04/19/13 11:14	04/22/13 18:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*04/19/13 11:14*	*04/22/13 18:41*	*4*

Client Sample ID: FM0106A-CS-SP

Lab Sample ID: 680-89421-7

Date Collected: 04/15/13 15:00
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Acenaphthylene	**19**	**J**	49	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Anthracene	**20**		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[a]anthracene	**68**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[a]pyrene	**76**		13	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[b]fluoranthene	**160**		15	7.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[g,h,i]perylene	**50**		25	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Benzo[k]fluoranthene	**58**		9.9	4.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Chrysene	**86**		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Fluoranthene	**69**		25	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Fluorene	**7.7**	**J**	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Indeno[1,2,3-cd]pyrene	**110**		25	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
1-Methylnaphthalene	**19**	**J**	49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
2-Methylnaphthalene	**56**		49	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Naphthalene	**53**		49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Phenanthrene	**59**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1
Pyrene	**81**		25	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/19/13 11:14*	*04/22/13 19:00*	*1*

Client Sample ID: FM0106B-CS-SP

Lab Sample ID: 680-89421-8

Date Collected: 04/15/13 15:15
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Acenaphthylene	**15**	**J**	51	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Anthracene	**48**		11	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[a]anthracene	**140**		10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[a]pyrene	**130**		13	6.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[b]fluoranthene	**280**		15	7.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[g,h,i]perylene	**120**		25	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Benzo[k]fluoranthene	**73**		10	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Chrysene	**100**		11	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Dibenz(a,h)anthracene	25	U	25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Fluoranthene	**150**		25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Fluorene	**17**	**J**	25	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Indeno[1,2,3-cd]pyrene	**150**		25	9.0	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
1-Methylnaphthalene	**40**	**J**	51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
2-Methylnaphthalene	**77**		51	9.0	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Naphthalene	**61**		51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Phenanthrene	**110**		10	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1
Pyrene	**160**		25	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*04/19/13 11:14*	*04/22/13 19:18*	*1*

Client Sample ID: FM0106C-CS-SP

Lab Sample ID: 680-89421-9

Date Collected: 04/15/13 15:20
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 79.6

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	☼	04/19/13 11:14	04/22/13 19:36	1
Acenaphthylene	**8.5**	**J**	50	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Anthracene	**11**		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[a]anthracene	**44**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[a]pyrene	**38**		13	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[b]fluoranthene	**67**		15	7.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[g,h,i]perylene	**33**		25	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Benzo[k]fluoranthene	**24**		9.9	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Chrysene	**69**		11	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Fluoranthene	**49**		25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Fluorene	**14**	**J**	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Indeno[1,2,3-cd]pyrene	**86**		25	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
1-Methylnaphthalene	**35**	**J**	50	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
2-Methylnaphthalene	**58**		50	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Naphthalene	**38**	**J**	50	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Phenanthrene	**49**		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1
Pyrene	**48**		25	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/19/13 11:14*	*04/22/13 19:36*	*1*

Client Sample ID: 041513-RB-Shovel

Lab Sample ID: 680-89421-10

Date Collected: 04/15/13 16:00
Matrix: Water
Date Received: 04/17/13 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
Acenaphthylene	1.0	U	1.0	0.26	ug/L		04/17/13 12:20	04/18/13 16:17	1
Anthracene	0.20	U	0.20	0.078	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[a]anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[a]pyrene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[b]fluoranthene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[g,h,i]perylene	0.51	U	0.51	0.10	ug/L		04/17/13 12:20	04/18/13 16:17	1
Benzo[k]fluoranthene	0.20	U	0.20	0.058	ug/L		04/17/13 12:20	04/18/13 16:17	1
Chrysene	0.20	U	0.20	0.070	ug/L		04/17/13 12:20	04/18/13 16:17	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
Fluoranthene	0.51	U	0.51	0.055	ug/L		04/17/13 12:20	04/18/13 16:17	1
Fluorene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.051	ug/L		04/17/13 12:20	04/18/13 16:17	1
1-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
2-Methylnaphthalene	2.0	U	2.0	0.51	ug/L		04/17/13 12:20	04/18/13 16:17	1
Naphthalene	2.0	U	2.0	0.26	ug/L		04/17/13 12:20	04/18/13 16:17	1
Phenanthrene	0.51	U	0.51	0.20	ug/L		04/17/13 12:20	04/18/13 16:17	1
Pyrene	0.51	U	0.51	0.091	ug/L		04/17/13 12:20	04/18/13 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*04/17/13 12:20*	*04/18/13 16:17*	*1*

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

Lab Sample ID: MB 660-136534/1-A
Matrix: Water
Analysis Batch: 136605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		04/17/13 12:20	04/18/13 12:37	1
Anthracene	0.20	U	0.20	0.076	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		04/17/13 12:20	04/18/13 12:37	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		04/17/13 12:20	04/18/13 12:37	1
Chrysene	0.20	U	0.20	0.069	ug/L		04/17/13 12:20	04/18/13 12:37	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		04/17/13 12:20	04/18/13 12:37	1
Fluorene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		04/17/13 12:20	04/18/13 12:37	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/17/13 12:20	04/18/13 12:37	1
Naphthalene	2.0	U	2.0	0.25	ug/L		04/17/13 12:20	04/18/13 12:37	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		04/17/13 12:20	04/18/13 12:37	1
Pyrene	0.50	U	0.50	0.089	ug/L		04/17/13 12:20	04/18/13 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*04/17/13 12:20*	*04/18/13 12:37*	*1*

Lab Sample ID: LCS 660-136534/2-A
Matrix: Water
Analysis Batch: 136605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	7.86		ug/L		79	55 - 132
Acenaphthylene	10.0	8.60		ug/L		86	39 - 130
Anthracene	10.0	7.92		ug/L		79	39 - 130
Benzo[a]anthracene	10.0	8.02		ug/L		80	54 - 135
Benzo[a]pyrene	10.0	5.44		ug/L		54	21 - 130
Benzo[b]fluoranthene	10.0	6.24		ug/L		62	37 - 130
Benzo[g,h,i]perylene	10.0	4.04		ug/L		40	26 - 130
Benzo[k]fluoranthene	10.0	6.17		ug/L		62	38 - 130
Chrysene	10.0	7.37		ug/L		74	56 - 130
Dibenz(a,h)anthracene	10.0	4.51		ug/L		45	13 - 130
Fluoranthene	10.0	7.98		ug/L		80	60 - 130
Fluorene	10.0	9.15		ug/L		91	55 - 140
Indeno[1,2,3-cd]pyrene	10.0	4.49		ug/L		45	21 - 130
1-Methylnaphthalene	10.0	6.89		ug/L		69	49 - 130
2-Methylnaphthalene	10.0	7.46		ug/L		75	48 - 130
Naphthalene	10.0	7.43		ug/L		74	54 - 133
Phenanthrene	10.0	7.98		ug/L		80	60 - 136
Pyrene	10.0	7.79		ug/L		78	60 - 138

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

Lab Sample ID: LCS 660-136534/2-A
Matrix: Water
Analysis Batch: 136605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136534

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	79		30 - 130

Lab Sample ID: MB 660-136637/1-A
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Fluoranthene	19	U	19	3.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Fluorene	19	U	19	4.0	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Naphthalene	39	U	39	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Pyrene	19	U	19	3.6	ug/Kg		04/19/13 11:14	04/22/13 15:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130	04/19/13 11:14	04/22/13 15:20	1

Lab Sample ID: LCS 660-136637/2-A
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	537		ug/Kg		81	39 - 130
Acenaphthylene	660	492		ug/Kg		74	38 - 130
Anthracene	660	528		ug/Kg		80	37 - 130
Benzo[a]anthracene	660	579		ug/Kg		88	40 - 130
Benzo[a]pyrene	660	446		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	660	556		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	660	468		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	660	589		ug/Kg		89	32 - 130
Chrysene	660	465		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	660	553		ug/Kg		84	27 - 130
Fluoranthene	660	538		ug/Kg		81	40 - 130
Fluorene	660	534		ug/Kg		81	40 - 130
Indeno[1,2,3-cd]pyrene	660	400		ug/Kg		61	30 - 130
1-Methylnaphthalene	660	423		ug/Kg		64	31 - 130

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

Lab Sample ID: LCS 660-136637/2-A
Matrix: Solid
Analysis Batch: 136698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	660	435		ug/Kg		66	33 - 130
Naphthalene	660	472		ug/Kg		71	36 - 130
Phenanthrene	660	534		ug/Kg		81	42 - 130
Pyrene	660	479		ug/Kg		73	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*30 - 130*

Lab Sample ID: MB 660-136731/1-A
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Fluorene	20	U	20	4.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Naphthalene	40	U	40	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Pyrene	20	U	20	3.7	ug/Kg		04/23/13 10:36	04/24/13 16:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*04/23/13 10:36*	*04/24/13 16:40*	*1*

Lab Sample ID: LCS 660-136731/2-A
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	523		ug/Kg		78	39 - 130
Acenaphthylene	668	506		ug/Kg		76	38 - 130
Anthracene	668	577		ug/Kg		86	37 - 130
Benzo[a]anthracene	668	787		ug/Kg		118	40 - 130
Benzo[a]pyrene	668	499		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	668	562		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	668	542		ug/Kg		81	32 - 130
Benzo[k]fluoranthene	668	662		ug/Kg		99	32 - 130

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

Lab Sample ID: LCS 660-136731/2-A
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	668	567		ug/Kg		85	41 - 130
Dibenz(a,h)anthracene	668	631		ug/Kg		94	27 - 130
Fluoranthene	668	617		ug/Kg		92	40 - 130
Fluorene	668	597		ug/Kg		89	40 - 130
Indeno[1,2,3-cd]pyrene	668	574		ug/Kg		86	30 - 130
1-Methylnaphthalene	668	546		ug/Kg		82	31 - 130
2-Methylnaphthalene	668	521		ug/Kg		78	33 - 130
Naphthalene	668	612		ug/Kg		91	36 - 130
Phenanthrene	668	653		ug/Kg		98	42 - 130
Pyrene	668	571		ug/Kg		85	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*83*		*30 - 130*

Lab Sample ID: 680-89421-1 MS
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: CV1001A-CS
Prep Type: Total/NA
Prep Batch: 136731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	520	U	868	648		ug/Kg	☼	75	39 - 130
Acenaphthylene	210	U	868	637		ug/Kg	☼	73	38 - 130
Anthracene	160		868	637		ug/Kg	☼	54	37 - 130
Benzo[a]anthracene	720		868	1260		ug/Kg	☼	62	40 - 130
Benzo[a]pyrene	420		868	940		ug/Kg	☼	60	49 - 130
Benzo[b]fluoranthene	700		868	1430		ug/Kg	☼	84	37 - 130
Benzo[g,h,i]perylene	380		868	953		ug/Kg	☼	66	32 - 130
Benzo[k]fluoranthene	130		868	972		ug/Kg	☼	97	32 - 130
Chrysene	480		868	1430		ug/Kg	☼	110	41 - 130
Dibenz(a,h)anthracene	73	J	868	778		ug/Kg	☼	81	27 - 130
Fluoranthene	500	F	868	1430		ug/Kg	☼	107	40 - 130
Fluorene	100	U	868	588		ug/Kg	☼	68	40 - 130
Indeno[1,2,3-cd]pyrene	420		868	820		ug/Kg	☼	46	30 - 130
1-Methylnaphthalene	230		868	1000		ug/Kg	☼	89	31 - 130
2-Methylnaphthalene	470		868	1270		ug/Kg	☼	92	33 - 130
Naphthalene	300		868	1010		ug/Kg	☼	82	36 - 130
Phenanthrene	540	F	868	1490		ug/Kg	☼	110	42 - 130
Pyrene	590		868	1170		ug/Kg	☼	66	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*75*		*30 - 130*

Lab Sample ID: 680-89421-1 MSD
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: CV1001A-CS
Prep Type: Total/NA
Prep Batch: 136731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	520	U	866	543		ug/Kg	☼	63	39 - 130	18	40
Acenaphthylene	210	U	866	662		ug/Kg	☼	76	38 - 130	4	40

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

Lab Sample ID: 680-89421-1 MSD
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: CV1001A-CS
Prep Type: Total/NA
Prep Batch: 136731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	160		866	660		ug/Kg	☼	57	37 - 130	4	40
Benzo[a]anthracene	720		866	1270		ug/Kg	☼	64	40 - 130	1	40
Benzo[a]pyrene	420		866	1100		ug/Kg	☼	79	49 - 130	16	40
Benzo[b]fluoranthene	700		866	1290		ug/Kg	☼	69	37 - 130	10	40
Benzo[g,h,i]perylene	380		866	868		ug/Kg	☼	56	32 - 130	9	40
Benzo[k]fluoranthene	130		866	1030		ug/Kg	☼	104	32 - 130	6	40
Chrysene	480		866	1290		ug/Kg	☼	94	41 - 130	10	40
Dibenz(a,h)anthracene	73	J	866	665		ug/Kg	☼	68	27 - 130	16	40
Fluoranthene	500	F	866	1700	F	ug/Kg	☼	139	40 - 130	17	40
Fluorene	100	U	866	800		ug/Kg	☼	92	40 - 130	30	40
Indeno[1,2,3-cd]pyrene	420		866	852		ug/Kg	☼	50	30 - 130	4	40
1-Methylnaphthalene	230		866	1200		ug/Kg	☼	112	31 - 130	18	40
2-Methylnaphthalene	470		866	1300		ug/Kg	☼	95	33 - 130	2	40
Naphthalene	300		866	1020		ug/Kg	☼	83	36 - 130	1	40
Phenanthrene	540	F	866	1750	F	ug/Kg	☼	139	42 - 130	16	40
Pyrene	590		866	1470		ug/Kg	☼	102	44 - 130	23	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*85*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-10	041513-RB-Shovel	Total/NA	Water	3520C	
LCS 660-136534/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 660-136534/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 136605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-10	041513-RB-Shovel	Total/NA	Water	8270C LL	136534
LCS 660-136534/2-A	Lab Control Sample	Total/NA	Water	8270C LL	136534
MB 660-136534/1-A	Method Blank	Total/NA	Water	8270C LL	136534

Prep Batch: 136637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-2	CV1082A-CS	Total/NA	Solid	3546	
680-89421-3	CV1082A-CSD	Total/NA	Solid	3546	
680-89421-4	CV0745A-CS-SP	Total/NA	Solid	3546	
680-89421-5	CV0745B-CS-SP	Total/NA	Solid	3546	
680-89421-6	FM0060A-CS-SP	Total/NA	Solid	3546	
680-89421-7	FM0106A-CS-SP	Total/NA	Solid	3546	
680-89421-8	FM0106B-CS-SP	Total/NA	Solid	3546	
680-89421-9	FM0106C-CS-SP	Total/NA	Solid	3546	
LCS 660-136637/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136637/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-2	CV1082A-CS	Total/NA	Solid	8270C LL	136637
680-89421-3	CV1082A-CSD	Total/NA	Solid	8270C LL	136637
680-89421-4	CV0745A-CS-SP	Total/NA	Solid	8270C LL	136637
680-89421-5	CV0745B-CS-SP	Total/NA	Solid	8270C LL	136637
680-89421-6	FM0060A-CS-SP	Total/NA	Solid	8270C LL	136637
680-89421-7	FM0106A-CS-SP	Total/NA	Solid	8270C LL	136637
680-89421-8	FM0106B-CS-SP	Total/NA	Solid	8270C LL	136637
680-89421-9	FM0106C-CS-SP	Total/NA	Solid	8270C LL	136637
LCS 660-136637/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136637
MB 660-136637/1-A	Method Blank	Total/NA	Solid	8270C LL	136637

Prep Batch: 136731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-1	CV1001A-CS	Total/NA	Solid	3546	
680-89421-1 MS	CV1001A-CS	Total/NA	Solid	3546	
680-89421-1 MSD	CV1001A-CS	Total/NA	Solid	3546	
LCS 660-136731/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136731/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-1	CV1001A-CS	Total/NA	Solid	8270C LL	136731
680-89421-1 MS	CV1001A-CS	Total/NA	Solid	8270C LL	136731
680-89421-1 MSD	CV1001A-CS	Total/NA	Solid	8270C LL	136731
LCS 660-136731/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136731
MB 660-136731/1-A	Method Blank	Total/NA	Solid	8270C LL	136731

General Chemistry

Analysis Batch: 136584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89421-1	CV1001A-CS	Total/NA	Solid	Moisture	
680-89421-1 MS	CV1001A-CS	Total/NA	Solid	Moisture	
680-89421-1 MSD	CV1001A-CS	Total/NA	Solid	Moisture	
680-89421-2	CV1082A-CS	Total/NA	Solid	Moisture	
680-89421-3	CV1082A-CSD	Total/NA	Solid	Moisture	
680-89421-4	CV0745A-CS-SP	Total/NA	Solid	Moisture	
680-89421-5	CV0745B-CS-SP	Total/NA	Solid	Moisture	
680-89421-6	FM0060A-CS-SP	Total/NA	Solid	Moisture	
680-89421-7	FM0106A-CS-SP	Total/NA	Solid	Moisture	
680-89421-8	FM0106B-CS-SP	Total/NA	Solid	Moisture	
680-89421-9	FM0106C-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89421-1
SDG: 68089421-1

Client Sample ID: CV1001A-CS

Lab Sample ID: 680-89421-1
Date Collected: 04/15/13 13:10
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136792	04/24/13 17:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: CV1082A-CS

Lab Sample ID: 680-89421-2
Date Collected: 04/15/13 12:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 17:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: CV1082A-CSD

Lab Sample ID: 680-89421-3
Date Collected: 04/15/13 12:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 17:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: CV0745A-CS-SP

Lab Sample ID: 680-89421-4
Date Collected: 04/15/13 13:25
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136698	04/22/13 18:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: CV0745B-CS-SP

Lab Sample ID: 680-89421-5
Date Collected: 04/15/13 13:45
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 18:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89421-1
SDG: 68089421-1

Client Sample ID: FM0060A-CS-SP

Lab Sample ID: 680-89421-6
Date Collected: 04/15/13 14:25
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136698	04/22/13 18:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: FM0106A-CS-SP

Lab Sample ID: 680-89421-7
Date Collected: 04/15/13 15:00
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 19:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: FM0106B-CS-SP

Lab Sample ID: 680-89421-8
Date Collected: 04/15/13 15:15
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 19:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: FM0106C-CS-SP

Lab Sample ID: 680-89421-9
Date Collected: 04/15/13 15:20
Matrix: Solid
Date Received: 04/17/13 08:40
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 19:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136584	04/18/13 11:34	AG	TAL TAM

Client Sample ID: 041513-RB-Shovel

Lab Sample ID: 680-89421-10
Date Collected: 04/15/13 16:00
Matrix: Water
Date Received: 04/17/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			136534	04/17/13 12:20	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136605	04/18/13 16:17	SCC	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 59209

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Test America, Tampa
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 1

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	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 7470A Hg	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-15-13	1310	CV1001A-CS			X			X	X		
	1245	CV1082A-CS			X			X			
	1245	CV1082A-CSD			X			X			
	1325	CV0745A-CS-SP			X			X			
	1345	CV0745B-CS-SP			X			X			
	1425	FM0060A-CS-SP			X			X			0.0004 percent -MH 4-19-13
	1500	FM0106A-CS-SP			X			X			
	1515	FM0106B-CS-SP			X			X			
	1520	FM0106C-CS-SP			X			X			
	1600	041513-RB-Shovel		X				X	X		
↓	1310	CV1001A-CS (sieve)							X		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-16-13	1000						
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
C Nicole Edwards	4/17/13	840	YES ○ NO ○		89421	file CV-87

TAL8240-680 (1008)

Page 20 of 25

4/26/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
SDG Number: 68089421-1

Login Number: 89421
List Number: 1
Creator: Daughtry, Beth

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.	False	Sample -6 Id on COC does not match container label (date/time match)
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: 680-89421-1
SDG Number: 68089421-1

Login Number: 89421
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/17/13 04:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89421-1
SDG Number: 68089421-1

Login Number: 89421
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/23/13 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-89421-1
SDG: 68089421-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications 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
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications 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: 680-89421-1
SDG: 68089421-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14