

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-88632-3
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/22/2013
 Date: 04/09/2013
 Date: 04/15/2013

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?	✓			Prep Batch 136046, MB 660-135965/1-A: Phenanthrene @ 3.93 J µg/kg (RL 8.0, DL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 032013-RB-Bowls+Spoons (680-88527-34).	

¹ Independent technical reviewer
 URS Group, Inc.
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Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (032013-RB-Bowls+Spoons) was collected during the week of 03/18/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88527-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)		✓		Phenanthrene blank contamination action level (BCAL) is 19.65 µg/Kg (3.93 µg/Kg x 5) ² . Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids (refer to Attachment B). Qualification of sample results due to the presence of blank contamination is not warranted, as all sample detections were greater than sample-specific BCALs.	
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? - Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. - An initial calibration is to be associated with each sample analysis. - A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			- Initial Calibration: 02/22/2013, instrument BSMC5973 - ICV: 02/22/2013 @ 14:06 - CCV: 04/01/2013 @ 11:31 - Initial Calibration: 04/02/2013, instrument BSMC5973 - ICV: 04/02/2013 @ 15:34 - CCV: 04/02/2013 @ 16:40 - CCV: 04/03/2013 @ 11:45 - Initial Calibration: 02/22/2013, instrument BSMD5973	

² BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				- ICV: 02/22/2013 @ 14:51 - CCV: 04/02/2013 @ 12:39	
19. Were calibration results within laboratory/project specifications? - ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): - If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects - If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects - ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): - If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects - If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds		✓		- ICV of 02/22/2013 @ 14:06, instrument BSMC5973: - Chrysene @ $-20.6\%D$ (Lab: ≤ 35.0, Project: ≤ 20), 79.5%R - Benzo(a)pyrene @ $-21.7\%D$ (Lab: ≤ 35.0, Project: ≤ 20), 78.5%R A negative bias is indicated by the ICV percent difference and both analytes were detected in associated samples³; therefore, J-flag detected chrysene and benzo(a)pyrene results. - ICV of 04/02/2013 @ 15:34, instrument BSMC5973: - Pyrene @ $-21.4\%D$ (Lab: ≤ 35.0, Project: ≤ 20), 78.5%R - Chrysene @ $-23.5\%D$ (Lab: ≤ 35.0, Project: ≤ 20), 76.5%R - Benzo(b)fluoranthene @ $-21.1\%D$ (Lab: ≤ 35.0, Project: ≤ 20), 79%R - Benzo(a)pyrene @ $-24.3\%D$ (Lab: ≤ 35.0, Project: ≤ 20), 75.5%R A negative bias is indicated by the ICV percent difference and the above-mentioned analytes were detected in associated samples⁴; therefore, J-flag detected results.	J
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	

³ 680-88632-46 and -47⁴ 680-88632-48 and -49

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			• Prep Batch 135843: 680-88632-10 (Batch sample), MS/MSD • Prep Batch 135924: 680-88632-21 (Batch sample), MS/MSD • Prep Batch 135965: 680-88632-45 (CV0664A-CS-SP), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (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: 680-88632-3
SDG: 68088632-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-45	CV0664A-CS-SP	Solid	03/22/13 08:56	03/23/13 09:39
680-88632-46	CV0664B-CS-SP	Solid	03/22/13 09:05	03/23/13 09:39
680-88632-47	HP0084A-CS-SP	Solid	03/22/13 08:05	03/23/13 09:39
680-88632-48	HP0084B-CS-SP	Solid	03/22/13 08:15	03/23/13 09:39
680-88632-49	HP0084C-GS-SP	Solid	03/22/13 08:08	03/23/13 09:39

ATTACHMENT B

SAMPLE-SPECIFIC BLANK CONTAMINATION ACTION LEVELS

Sample-Specific Blank Contamination Action Levels

Attachment B

				Sample ID:	CV0664A-CS-SP	CV0664A-CS-SP	HP0084A-CS-SP	HP0084B-CS-SP	HP0084C-GS-SP
				Lab ID:	680-88632-45	680-88632-46	680-88632-47	680-88632-48	680-88632-49
				%S:	82.1	78.1	77.2	74.4	79.7
				DF:	1	4	4	4	1
Parameter	RL, µg/kg	MB, µg/kg	Maximum Amount Detected¹, µg/kg	Action Level², µg/kg	Sample-Specific Blank Contamination Action Levels, µg/kg				
Phenanthrene	8.0	3.93	3.93	20	23.9	100.6	101.8	105.6	24.7
Reported Sample Result, µg/kg:					120	430	420	590	400
Reporting Limit, µg/kg:					9.9	41	42	42	10
Blank contamination action:					None ³	None ³	None ³	None ³	None ³

A blank cell indicates the analyte was not detected.

¹ Maximum amount detected in among all blanks

² Maximum amount detected in blanks multiplied by a factor of 10 for common blank contaminants (5 for all others)

³ Qualification of data is not warranted, because the sample concentration is greater than the sample-specific BCAL

Action: Sample results less than the sample-specific BCAL have been qualified due to the presence of blank contamination. The sample result has been U-flagged, and reporting limit elevated to the amount found in the sample.

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Job ID: 680-88632-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88632-3

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

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

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

RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0664A-CS-SP (680-88632-45), CV0664B-CS-SP (680-88632-46), HP0084A-CS-SP (680-88632-47), HP0084B-CS-SP (680-88632-48) and HP0084C-GS-SP (680-88632-49) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/27/2013, 03/29/2013 and 04/01/2013 and analyzed on 04/01/2013, 04/02/2013 and 04/03/2013.

Samples CV0664B-CS-SP (680-88632-46)[4X], HP0084A-CS-SP (680-88632-47)[4X] and HP0084B-CS-SP (680-88632-48)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-135965/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88632-10 in batch 660-135996. Several analytes also exceeded the rpd limit.

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

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: CV0664A-CS-SP

Lab Sample ID: 680-88632-45

Date Collected: 03/22/13 08:56

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Acenaphthylene	11	J	49	6.2	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Anthracene	18		10	5.2	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Benzo[a]anthracene	96		9.9	4.8	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Benzo[a]pyrene	79		13	6.4	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Benzo[b]fluoranthene	150		15	7.5	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Benzo[g,h,i]perylene	76		25	5.4	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Benzo[k]fluoranthene	55		9.9	4.4	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Chrysene	130		11	5.5	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Dibenz(a,h)anthracene	26		25	5.1	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Fluoranthene	150		25	4.9	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Fluorene	7.7	J	25	5.1	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Indeno[1,2,3-cd]pyrene	59		25	8.8	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
1-Methylnaphthalene	44	J	49	5.4	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
2-Methylnaphthalene	54		49	8.8	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Naphthalene	52		49	5.4	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Phenanthrene	120	B	9.9	4.8	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1
Pyrene	120		25	4.6	ug/Kg	☐	04/01/13 08:27	04/02/13 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	42		30 - 130	04/01/13 08:27	04/02/13 14:09	1

Client Sample ID: CV0664B-CS-SP

Lab Sample ID: 680-88632-46

Date Collected: 03/22/13 09:05

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Acenaphthylene	67	J	200	25	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Anthracene	75		43	21	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Benzo[a]anthracene	390		41	20	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Benzo[a]pyrene	330	J	53	26	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Benzo[b]fluoranthene	620		62	31	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Benzo[g,h,i]perylene	270		100	22	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Benzo[k]fluoranthene	300		41	18	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Chrysene	480	J	46	23	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Dibenz(a,h)anthracene	98	J	100	21	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Fluoranthene	540		100	20	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Fluorene	26	J	100	21	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Indeno[1,2,3-cd]pyrene	250		100	36	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
1-Methylnaphthalene	250		200	22	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
2-Methylnaphthalene	340		200	36	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Naphthalene	280		200	22	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Phenanthrene	430		41	20	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4
Pyrene	500		100	19	ug/Kg	☐	03/27/13 15:04	04/01/13 21:16	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		30 - 130	03/27/13 15:04	04/01/13 21:16	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: HP0084A-CS-SP

Lab Sample ID: 680-88632-47

Date Collected: 03/22/13 08:05

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Acenaphthylene	28	J	210	26	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Anthracene	62		44	22	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Benzo[a]anthracene	240		42	20	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Benzo[a]pyrene	190	J	54	27	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Benzo[b]fluoranthene	400		64	32	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Benzo[g,h,i]perylene	190		100	23	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Benzo[k]fluoranthene	94		42	19	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Chrysene	310	J	47	23	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Dibenz(a,h)anthracene	59	J	100	21	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Fluoranthene	250		100	21	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Fluorene	24	J	100	21	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Indeno[1,2,3-cd]pyrene	130		100	37	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
1-Methylnaphthalene	320		210	23	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
2-Methylnaphthalene	460		210	37	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Naphthalene	280		210	23	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Phenanthrene	420		42	20	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Pyrene	280		100	19	ug/Kg	☆	03/27/13 15:04	04/01/13 21:34	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		30 - 130				03/27/13 15:04	04/01/13 21:34	4

Client Sample ID: HP0084B-CS-SP

Lab Sample ID: 680-88632-48

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Acenaphthylene	28	J	210	26	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Anthracene	68	J	44	22	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Benzo[a]anthracene	380		42	21	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Benzo[a]pyrene	200	J	55	28	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Benzo[b]fluoranthene	520	J	65	32	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Benzo[g,h,i]perylene	280		110	23	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Benzo[k]fluoranthene	100		42	19	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Chrysene	520	J	48	24	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Dibenz(a,h)anthracene	120		110	22	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Fluoranthene	470		110	21	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Fluorene	25	J	110	22	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Indeno[1,2,3-cd]pyrene	160		110	38	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
1-Methylnaphthalene	330		210	23	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
2-Methylnaphthalene	390		210	38	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Naphthalene	290		210	23	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Phenanthrene	590		42	21	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Pyrene	420	J	110	20	ug/Kg	☆	03/27/13 15:04	04/03/13 12:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		30 - 130				03/27/13 15:04	04/03/13 12:40	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: HP0084C-GS-SP

Lab Sample ID: 680-88632-49

Date Collected: 03/22/13 08:08

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Acenaphthylene	17	J	50	6.3	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Anthracene	38	J	11	5.3	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Benzo[a]anthracene	240	J	10	4.9	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Benzo[a]pyrene	220	J	13	6.5	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Benzo[b]fluoranthene	430	J	15	7.7	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Benzo[g,h,i]perylene	190	J	25	5.5	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Benzo[k]fluoranthene	150	J	10	4.5	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Chrysene	440	J	11	5.7	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Dibenz(a,h)anthracene	63	J	25	5.1	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Fluoranthene	340	J	25	5.0	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Fluorene	35	J	25	5.1	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Indeno[1,2,3-cd]pyrene	120	J	25	8.9	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
1-Methylnaphthalene	220	J	50	5.5	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
2-Methylnaphthalene	320	J	50	8.9	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Naphthalene	180	J	50	5.5	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Phenanthrene	400	J	10	4.9	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Pyrene	280	J	25	4.6	ug/Kg	☆	03/29/13 10:19	04/02/13 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	55		30 - 130				03/29/13 10:19	04/02/13 21:32	1

TestAmerica Savannah

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

ANALYTICAL REPORT

Job Number: 680-88632-3

SDG Number: 68088632-3

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
4/4/2013 10:12 AM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/04/2013

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88632-3

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

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

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

RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0664A-CS-SP (680-88632-45), CV0664B-CS-SP (680-88632-46), HP0084A-CS-SP (680-88632-47), HP0084B-CS-SP (680-88632-48) and HP0084C-CS-SP (680-88632-49) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/27/2013, 03/29/2013 and 04/01/2013 and analyzed on 04/01/2013, 04/02/2013 and 04/03/2013.

Samples CV0664B-CS-SP (680-88632-46)[4X], HP0084A-CS-SP (680-88632-47)[4X] and HP0084B-CS-SP (680-88632-48)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-135965/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88632-10 in batch 660-135996. Several analytes also exceeded the rpd limit.

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

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

Sdg Number: 68088632-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88632-45	CV0664A-CS-SP	Solid	03/22/2013 0856	03/23/2013 0939
680-88632-45MS	CV0664A-CS-SP	Solid	03/22/2013 0856	03/23/2013 0939
680-88632-45MSD	CV0664A-CS-SP	Solid	03/22/2013 0856	03/23/2013 0939
680-88632-46	CV0664B-CS-SP	Solid	03/22/2013 0905	03/23/2013 0939
680-88632-47	HP0084A-CS-SP	Solid	03/22/2013 0805	03/23/2013 0939
680-88632-48	HP0084B-CS-SP	Solid	03/22/2013 0815	03/23/2013 0939
680-88632-49	HP0084C-GS-SP	Solid	03/22/2013 0808	03/23/2013 0939

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

Sdg Number: 68088632-3

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

Sdg Number: 68088632-3

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: 680-88632-3

Sdg Number: 68088632-3

Lab Section	Qualifier	Description
GC/MS Semi VOA	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

Sdg Number: 68088632-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-135843					
LCS 660-135843/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135843/1-A	Method Blank	T	Solid	3546	
680-88632-A-10-D MS	Matrix Spike	T	Solid	3546	
680-88632-A-10-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88632-46	CV0664B-CS-SP	T	Solid	3546	
680-88632-47	HP0084A-CS-SP	T	Solid	3546	
680-88632-48	HP0084B-CS-SP	T	Solid	3546	
Prep Batch: 660-135924					
LCS 660-135924/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135924/1-A	Method Blank	T	Solid	3546	
680-88632-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88632-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88632-49	HP0084C-GS-SP	T	Solid	3546	
Prep Batch: 660-135965					
LCS 660-135965/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135965/1-A	Method Blank	T	Solid	3546	
680-88632-45	CV0664A-CS-SP	T	Solid	3546	
680-88632-45MS	Matrix Spike	T	Solid	3546	
680-88632-45MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-135996					
LCS 660-135843/2-A	Lab Control Sample	T	Solid	8270C LL	660-135843
MB 660-135843/1-A	Method Blank	T	Solid	8270C LL	660-135843
680-88632-A-10-D MS	Matrix Spike	T	Solid	8270C LL	660-135843
680-88632-A-10-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135843
680-88632-46	CV0664B-CS-SP	T	Solid	8270C LL	660-135843
680-88632-47	HP0084A-CS-SP	T	Solid	8270C LL	660-135843
Analysis Batch:660-136046					
LCS 660-135965/2-A	Lab Control Sample	T	Solid	8270C LL	660-135965
MB 660-135965/1-A	Method Blank	T	Solid	8270C LL	660-135965
680-88632-45	CV0664A-CS-SP	T	Solid	8270C LL	660-135965
680-88632-45MS	Matrix Spike	T	Solid	8270C LL	660-135965
680-88632-45MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135965
Analysis Batch:660-136079					
LCS 660-135924/2-A	Lab Control Sample	T	Solid	8270C LL	660-135924
MB 660-135924/1-A	Method Blank	T	Solid	8270C LL	660-135924
680-88632-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135924
680-88632-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135924
680-88632-49	HP0084C-GS-SP	T	Solid	8270C LL	660-135924

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Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

Sdg Number: 68088632-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136081					
680-88632-48	HP0084B-CS-SP	T	Solid	8270C LL	660-135843

Report Basis

T = Total

General Chemistry

Analysis Batch:660-135786					
680-88632-A-10 MS	Matrix Spike	T	Solid	Moisture	
680-88632-A-10 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-45	CV0664A-CS-SP	T	Solid	Moisture	
680-88632-45MS	Matrix Spike	T	Solid	Moisture	
680-88632-45MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-47	HP0084A-CS-SP	T	Solid	Moisture	
680-88632-48	HP0084B-CS-SP	T	Solid	Moisture	
680-88632-49	HP0084C-GS-SP	T	Solid	Moisture	
Analysis Batch:660-135794					
LCS 660-135794/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135794/11	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88632-46	CV0664B-CS-SP	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: _____Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: _____

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

Lab Sample ID: IC 660-134776/4 Client Sample ID: _____Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: _____

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

Lab Sample ID: IC 660-134776/5 Client Sample ID: _____Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: _____

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

Lab Sample ID: IC 660-134776/6 Client Sample ID: _____Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: _____

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

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: _____Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: _____

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

Lab Sample ID: IC 660-134776/8 Client Sample ID: _____Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: _____

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

Lab Sample ID: IC 660-134776/9 Client Sample ID: _____Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: _____

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

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: ICV 660-134776/10 Client Sample ID: _____Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: _____

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

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 135996Lab Sample ID: CCVIS 660-135996/3 Client Sample ID: _____Date Analyzed: 04/01/13 11:31 Lab File ID: 1CD01003.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/

Lab Sample ID: LCS 660-135843/2-A Client Sample ID: _____Date Analyzed: 04/01/13 15:10 Lab File ID: 1CD01014.D GC Column: _____

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

Lab Sample ID: 680-88632-A-10-D MS Client Sample ID: _____Date Analyzed: 04/01/13 15:47 Lab File ID: 1CD01016.D GC Column: _____

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

Lab Sample ID: 680-88632-A-10-C MSD Client Sample ID: _____Date Analyzed: 04/01/13 16:05 Lab File ID: 1CD01017.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-46 Client Sample ID: CV0664B-CS-SPDate Analyzed: 04/01/13 21:16 Lab File ID: 1CD01034.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/03/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/03/

Lab Sample ID: 680-88632-47 Client Sample ID: HP0084A-CS-SPDate Analyzed: 04/01/13 21:34 Lab File ID: 1CD01035.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/03/
Benzo[g,h,i]perylene	10.36	Baseline Event	cantins	04/03/

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: IC 660-136048/5 Client Sample ID: _____Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/

Lab Sample ID: IC 660-136048/6 Client Sample ID: _____Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: _____

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

Lab Sample ID: IC 660-136048/7 Client Sample ID: _____Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: _____

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

Lab Sample ID: IC 660-136048/8 Client Sample ID: _____Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: _____

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

Lab Sample ID: ICIS 660-136048/9 Client Sample ID: _____Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: _____

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

Lab Sample ID: IC 660-136048/10 Client Sample ID: _____Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: _____

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

Lab Sample ID: IC 660-136048/11 Client Sample ID: _____Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: _____

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

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: ICV 660-136048/12 Client Sample ID: _____Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: _____

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

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 136079Lab Sample ID: CCVIS 660-136079/3 Client Sample ID: _____Date Analyzed: 04/02/13 16:40 Lab File ID: 1CD02015.D GC Column: _____

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

Lab Sample ID: LCS 660-135924/2-A Client Sample ID: _____Date Analyzed: 04/02/13 20:19 Lab File ID: 1CD02027.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-A-21-B MS Client Sample ID: _____Date Analyzed: 04/02/13 20:56 Lab File ID: 1CD02029.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-A-21-C MSD Client Sample ID: _____Date Analyzed: 04/02/13 21:14 Lab File ID: 1CD02030.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-49 Client Sample ID: HP0084C-GS-SPDate Analyzed: 04/02/13 21:32 Lab File ID: 1CD02031.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973 Analysis Batch Number: 136081Lab Sample ID: CCVIS 660-136081/3 Client Sample ID: _____Date Analyzed: 04/03/13 11:45 Lab File ID: 1CD03003.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/

Lab Sample ID: 680-88632-48 Client Sample ID: HP0084B-CS-SPDate Analyzed: 04/03/13 12:40 Lab File ID: 1CD03006.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.50	Split Peak	cantins	04/03/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/
Dibenz(a,h)anthracene	10.00	Baseline Event	cantins	04/03/
Benzo[g,h,i]perylene	10.33	Baseline Event	cantins	04/03/

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: IC 660-134781/3 Client Sample ID: _____Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: _____

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

Lab Sample ID: IC 660-134781/4 Client Sample ID: _____Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: _____

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

Lab Sample ID: IC 660-134781/5 Client Sample ID: _____Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: _____

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

Lab Sample ID: IC 660-134781/6 Client Sample ID: _____Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: _____

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

Lab Sample ID: IC 660-134781/9 Client Sample ID: _____Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: _____

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

Lab Sample ID: ICV 660-134781/10 Client Sample ID: _____Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	9.32	Baseline Event	cantins	02/22/

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

DB-5MS _____ ID: 250 (um)

I

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMD5973 Analysis Batch Number: 136046Lab Sample ID: CCVIS 660-136046/7 Client Sample ID: _____Date Analyzed: 04/02/13 12:39 Lab File ID: 1DD02007.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.81	Split Peak	cantins	04/02/

Lab Sample ID: LCS 660-135965/2-A Client Sample ID: _____Date Analyzed: 04/02/13 13:47 Lab File ID: 1DD02010.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-45 Client Sample ID: CV0664A-CS-SPDate Analyzed: 04/02/13 14:09 Lab File ID: 1DD02011.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-45 MS Client Sample ID: CV0664A-CS-SP MSDate Analyzed: 04/02/13 14:32 Lab File ID: 1DD02012.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.82	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-45 MSD Client Sample ID: CV0664A-CS-SP MSDDate Analyzed: 04/02/13 14:54 Lab File ID: 1DD02013.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.82	Split Peak	cantins	04/02/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

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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.: 680-88632-3

SDG No.: 68088632-3

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0664A-CS-SP	680-88632-45	42
CV0664B-CS-SP	680-88632-46	72
HP0084A-CS-SP	680-88632-47	69
HP0084B-CS-SP	680-88632-48	93
HP0084C-GS-SP	680-88632-49	55
	MB 660-135843/1-A	60
	MB 660-135924/1-A	62
	MB 660-135965/1-A	69
	LCS 660-135843/2-A	81
	LCS 660-135924/2-A	66
	LCS 660-135965/2-A	75
	680-88632-A-10-D MS	75
	680-88632-A-21-B MS	62
CV0664A-CS-SP MS	680-88632-45 MS	54
	680-88632-A-10-C MSD	65
	680-88632-A-21-C MSD	64
CV0664A-CS-SP MSD	680-88632-45 MSD	53

OTPH = o-Terphenyl

QC LIMITS
30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1CD01014.D
 Lab ID: LCS 660-135843/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	495	74	39-130	
Acenaphthylene	668	547	82	38-130	
Anthracene	668	519	78	37-130	
Benzo[a]anthracene	668	536	80	40-130	
Benzo[a]pyrene	668	483	72	49-130	
Benzo[b]fluoranthene	668	481	72	37-130	
Benzo[g,h,i]perylene	668	477	71	32-130	
Benzo[k]fluoranthene	668	573	86	32-130	
Chrysene	668	497	74	41-130	
Dibenz(a,h)anthracene	668	499	75	27-130	
Fluoranthene	668	548	82	40-130	
Fluorene	668	536	80	40-130	
Indeno[1,2,3-cd]pyrene	668	511	76	30-130	
1-Methylnaphthalene	668	593	89	31-130	
2-Methylnaphthalene	668	577	86	33-130	
Naphthalene	668	539	81	36-130	
Phenanthrene	668	518	78	42-130	
Pyrene	668	556	83	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1CD02027.D
 Lab ID: LCS 660-135924/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	666	412	62	39-130	
Acenaphthylene	666	436	65	38-130	
Anthracene	666	447	67	37-130	
Benzo[a]anthracene	666	479	72	40-130	
Benzo[a]pyrene	666	454	68	49-130	
Benzo[b]fluoranthene	666	456	68	37-130	
Benzo[g,h,i]perylene	666	425	64	32-130	
Benzo[k]fluoranthene	666	469	70	32-130	
Chrysene	666	447	67	41-130	
Dibenz(a,h)anthracene	666	476	71	27-130	
Fluoranthene	666	483	72	40-130	
Fluorene	666	450	68	40-130	
Indeno[1,2,3-cd]pyrene	666	403	60	30-130	
1-Methylnaphthalene	666	509	76	31-130	
2-Methylnaphthalene	666	483	72	33-130	
Naphthalene	666	461	69	36-130	
Phenanthrene	666	439	66	42-130	
Pyrene	666	509	76	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1DD02010.D
 Lab ID: LCS 660-135965/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	456	68	39-130	
Acenaphthylene	669	468	70	38-130	
Anthracene	669	486	73	37-130	
Benzo[a]anthracene	669	551	82	40-130	
Benzo[a]pyrene	669	490	73	49-130	
Benzo[b]fluoranthene	669	533	80	37-130	
Benzo[g,h,i]perylene	669	516	77	32-130	
Benzo[k]fluoranthene	669	521	78	32-130	
Chrysene	669	493	74	41-130	
Dibenz(a,h)anthracene	669	552	82	27-130	
Fluoranthene	669	530	79	40-130	
Fluorene	669	503	75	40-130	
Indeno[1,2,3-cd]pyrene	669	484	72	30-130	
1-Methylnaphthalene	669	504	75	31-130	
2-Methylnaphthalene	669	490	73	33-130	
Naphthalene	669	471	70	36-130	
Phenanthrene	669	489	73	42-130	
Pyrene	669	486	73	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1CD01016.D
 Lab ID: 680-88632-A-10-D MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	852	380 J	674	35	39-130	F
Acenaphthylene	852	330	736	48	38-130	
Anthracene	852	1200	936	-36	37-130	F
Benzo[a]anthracene	852	4800	2110	-316	40-130	4
Benzo[a]pyrene	852	4700	2020	-310	49-130	4
Benzo[b]fluoranthene	852	7400	2820	-543	37-130	4
Benzo[g,h,i]perylene	852	3400	1560	-217	32-130	F
Benzo[k]fluoranthene	852	2100	1490	-67	32-130	F
Chrysene	852	4700	2080	-304	41-130	4
Dibenz(a,h)anthracene	852	940	1030	10	27-130	F
Fluoranthene	852	9500	3460	-713	40-130	4
Fluorene	852	390	698	36	40-130	F
Indeno[1,2,3-cd]pyrene	852	2400	1420	-118	30-130	F
1-Methylnaphthalene	852	260	1050	93	31-130	
2-Methylnaphthalene	852	260	920	78	33-130	
Naphthalene	852	480	783	36	36-130	
Phenanthrene	852	4400	2180	-262	42-130	4
Pyrene	852	8000	3030	-586	44-130	4

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1CD02029.D
 Lab ID: 680-88632-A-21-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	817	120 U	449	55	39-130	
Acenaphthylene	817	20 J	445	52	38-130	
Anthracene	817	14	430	51	37-130	
Benzo[a]anthracene	817	94	578	59	40-130	
Benzo[a]pyrene	817	97	499	49	49-130	
Benzo[b]fluoranthene	817	200	613	51	37-130	
Benzo[g,h,i]perylene	817	91	463	46	32-130	
Benzo[k]fluoranthene	817	51	560	62	32-130	
Chrysene	817	140	553	51	41-130	
Dibenz(a,h)anthracene	817	32	479	55	27-130	
Fluoranthene	817	140	598	57	40-130	
Fluorene	817	9.4 J	502	60	40-130	
Indeno[1,2,3-cd]pyrene	817	74	413	42	30-130	
1-Methylnaphthalene	817	33 J	610	71	31-130	
2-Methylnaphthalene	817	51	567	63	33-130	
Naphthalene	817	79	572	60	36-130	
Phenanthrene	817	100	565	57	42-130	
Pyrene	817	110	597	60	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1DD02012.D
 Lab ID: 680-88632-45 MS Client ID: CV0664A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	814	120 U	430	53	39-130	
Acenaphthylene	814	11 J	431	52	38-130	
Anthracene	814	18	486	57	37-130	
Benzo[a]anthracene	814	96	685	72	40-130	
Benzo[a]pyrene	814	79	556	58	49-130	
Benzo[b]fluoranthene	814	150	714	69	37-130	
Benzo[g,h,i]perylene	814	76	585	63	32-130	
Benzo[k]fluoranthene	814	55	543	60	32-130	
Chrysene	814	130	667	66	41-130	
Dibenz(a,h)anthracene	814	26	526	61	27-130	
Fluoranthene	814	150	840	85	40-130	
Fluorene	814	7.7 J	477	58	40-130	
Indeno[1,2,3-cd]pyrene	814	59	537	59	30-130	
1-Methylnaphthalene	814	44 J	563	64	31-130	
2-Methylnaphthalene	814	54	565	63	33-130	
Naphthalene	814	52	510	56	36-130	
Phenanthrene	814	120	764	79	42-130	
Pyrene	814	120	734	76	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1CD01017.D
 Lab ID: 680-88632-A-10-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	853	695	37	3	40	39-130	F
Acenaphthylene	853	844	60	14	40	38-130	
Anthracene	853	1160	-10	21	40	37-130	F
Benzo[a]anthracene	853	4010	-93	62	40	40-130	4 F
Benzo[a]pyrene	853	3770	-104	61	40	49-130	4 F
Benzo[b]fluoranthene	853	5430	-236	63	40	37-130	4 F
Benzo[g,h,i]perylene	853	2480	-108	46	40	32-130	F
Benzo[k]fluoranthene	853	2920	101	65	40	32-130	F
Chrysene	853	4100	-66	65	40	41-130	4 F
Dibenz(a,h)anthracene	853	1210	32	17	40	27-130	
Fluoranthene	853	6580	-346	62	40	40-130	4 F
Fluorene	853	724	39	4	40	40-130	F
Indeno[1,2,3-cd]pyrene	853	2460	4	54	40	30-130	F
1-Methylnaphthalene	853	816	65	25	40	31-130	
2-Methylnaphthalene	853	621	43	39	40	33-130	
Naphthalene	853	681	24	14	40	36-130	F
Phenanthrene	853	3080	-156	34	40	42-130	4
Pyrene	853	6020	-235	66	40	44-130	4 F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1CD02030.D
 Lab ID: 680-88632-A-21-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	815	487	60	8	40	39-130	
Acenaphthylene	815	546	65	20	40	38-130	
Anthracene	815	560	67	26	40	37-130	
Benzo[a]anthracene	815	708	75	20	40	40-130	
Benzo[a]pyrene	815	651	68	26	40	49-130	
Benzo[b]fluoranthene	815	797	73	26	40	37-130	
Benzo[g,h,i]perylene	815	579	60	22	40	32-130	
Benzo[k]fluoranthene	815	696	79	22	40	32-130	
Chrysene	815	684	67	21	40	41-130	
Dibenz(a,h)anthracene	815	567	66	17	40	27-130	
Fluoranthene	815	765	77	24	40	40-130	
Fluorene	815	538	65	7	40	40-130	
Indeno[1,2,3-cd]pyrene	815	581	62	34	40	30-130	
1-Methylnaphthalene	815	644	75	6	40	31-130	
2-Methylnaphthalene	815	622	70	9	40	33-130	
Naphthalene	815	608	65	6	40	36-130	
Phenanthrene	815	684	71	19	40	42-130	
Pyrene	815	746	78	22	40	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Matrix: Solid Level: Low Lab File ID: 1DD02013.D
 Lab ID: 680-88632-45 MSD Client ID: CV0664A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	816	388	48	10	40	39-130	
Acenaphthylene	816	410	49	5	40	38-130	
Anthracene	816	456	54	6	40	37-130	
Benzo[a]anthracene	816	605	62	12	40	40-130	
Benzo[a]pyrene	816	516	53	7	40	49-130	
Benzo[b]fluoranthene	816	617	57	15	40	37-130	
Benzo[g,h,i]perylene	816	551	58	6	40	32-130	
Benzo[k]fluoranthene	816	541	59	0	40	32-130	
Chrysene	816	624	60	7	40	41-130	
Dibenz(a,h)anthracene	816	536	62	2	40	27-130	
Fluoranthene	816	691	66	19	40	40-130	
Fluorene	816	438	53	9	40	40-130	
Indeno[1,2,3-cd]pyrene	816	534	58	1	40	30-130	
1-Methylnaphthalene	816	509	57	10	40	31-130	
2-Methylnaphthalene	816	495	54	13	40	33-130	
Naphthalene	816	446	48	13	40	36-130	
Phenanthrene	816	660	66	15	40	42-130	
Pyrene	816	619	61	17	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1CD01013.D Lab Sample ID: MB 660-135843/1-A
Matrix: Solid Date Extracted: 03/27/2013 15:04
Instrument ID: BSMC5973 Date Analyzed: 04/01/2013 14:52
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135843/2-A	1CD01014.D	04/01/2013 15:10
	680-88632-A-10-D MS	1CD01016.D	04/01/2013 15:47
	680-88632-A-10-C MSD	1CD01017.D	04/01/2013 16:05
CV0664B-CS-SP	680-88632-46	1CD01034.D	04/01/2013 21:16
HP0084A-CS-SP	680-88632-47	1CD01035.D	04/01/2013 21:34
HP0084B-CS-SP	680-88632-48	1CD03006.D	04/03/2013 12:40

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1CD02026.D Lab Sample ID: MB 660-135924/1-A
Matrix: Solid Date Extracted: 03/29/2013 10:19
Instrument ID: BSMC5973 Date Analyzed: 04/02/2013 20:01
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135924/2-A	1CD02027.D	04/02/2013 20:19
	680-88632-A-21-B MS	1CD02029.D	04/02/2013 20:56
	680-88632-A-21-C MSD	1CD02030.D	04/02/2013 21:14
HP0084C-GS-SP	680-88632-49	1CD02031.D	04/02/2013 21:32

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1DD02009.D Lab Sample ID: MB 660-135965/1-A
Matrix: Solid Date Extracted: 04/01/2013 08:27
Instrument ID: BSMD5973 Date Analyzed: 04/02/2013 13:24
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135965/2-A	1DD02010.D	04/02/2013 13:47
CV0664A-CS-SP	680-88632-45	1DD02011.D	04/02/2013 14:09
CV0664A-CS-SP MS	680-88632-45 MS	1DD02012.D	04/02/2013 14:32
CV0664A-CS-SP MSD	680-88632-45 MSD	1DD02013.D	04/02/2013 14:54

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:41
Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.3
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0 % of mass 69	0.3 (0.4)1
127	10.0 - 80.0 % of mass 198	53.6
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.6
275	10.0 - 60.0 % of mass 198	19.2
365	Greater than 1.0 % of mass 198	2.0
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	52.1
443	15.0 - 24.0 % of mass 442	8.7 (16.7)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1CD01002.D DFTPP Injection Date: 04/01/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:14
Analysis Batch No.: 135996

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.6
68	Less than 2.0 % of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	43.8
70	Less than 2.0 % of mass 69	0.2 (0.4) 1
127	10.0 - 80.0 % of mass 198	45.9
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.5
275	10.0 - 60.0 % of mass 198	24.8
365	Greater than 1.0 % of mass 198	3.9
441	Present but less than mass 443	14.9
442	Greater than 50.0 % of mass 198	94.0
443	15.0 - 24.0 % of mass 442	18.4 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135996/3	1CD01003.D	04/01/2013	11:31
	MB 660-135843/1-A	1CD01013.D	04/01/2013	14:52
	LCS 660-135843/2-A	1CD01014.D	04/01/2013	15:10
	680-88632-A-10-D MS	1CD01016.D	04/01/2013	15:47
	680-88632-A-10-C MSD	1CD01017.D	04/01/2013	16:05
CV0664B-CS-SP	680-88632-46	1CD01034.D	04/01/2013	21:16
HP0084A-CS-SP	680-88632-47	1CD01035.D	04/01/2013	21:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:31
Analysis Batch No.: 136048

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1CD02014.D DFTPP Injection Date: 04/02/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 16:23
Analysis Batch No.: 136079

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	32.4
68	Less than 2.0 % of mass 69	0.3 (0.6) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0 % of mass 69	0.3 (0.7) 1
127	10.0 - 80.0 % of mass 198	49.3
197	Less than 2.0 % of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	24.0
365	Greater than 1.0 % of mass 198	3.6
441	Present but less than mass 443	10.2
442	Greater than 50.0 % of mass 198	86.9
443	15.0 - 24.0 % of mass 442	19.1 (22.0) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136079/3	1CD02015.D	04/02/2013	16:40
	MB 660-135924/1-A	1CD02026.D	04/02/2013	20:01
	LCS 660-135924/2-A	1CD02027.D	04/02/2013	20:19
	680-88632-A-21-B MS	1CD02029.D	04/02/2013	20:56
	680-88632-A-21-C MSD	1CD02030.D	04/02/2013	21:14
HP0084C-GS-SP	680-88632-49	1CD02031.D	04/02/2013	21:32

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab File ID: 1CD03002.D DFTPP Injection Date: 04/03/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:28
 Analysis Batch No.: 136081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.7
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	49.7
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	48.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	19.7
365	Greater than 1.0 % of mass 198	2.4
441	Present but less than mass 443	6.9
442	Greater than 50.0 % of mass 198	61.0
443	15.0 - 24.0 % of mass 442	10.2 (16.7)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136081/3	1CD03003.D	04/03/2013	11:45
HP0084B-CS-SP	680-88632-48	1CD03006.D	04/03/2013	12:40

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 11:57
Analysis Batch No.: 134781

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Lab File ID: 1DD02002.D DFTPP Injection Date: 04/02/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 10:23
Analysis Batch No.: 136046

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.6
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0 % of mass 69	0.2 (0.6) 1
127	10.0 - 80.0 % of mass 198	48.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	30.4
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	15.1
442	Greater than 50.0 % of mass 198	97.2
443	15.0 - 24.0 % of mass 442	19.5 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136046/7	1DD02007.D	04/02/2013	12:39
	MB 660-135965/1-A	1DD02009.D	04/02/2013	13:24
	LCS 660-135965/2-A	1DD02010.D	04/02/2013	13:47
CV0664A-CS-SP	680-88632-45	1DD02011.D	04/02/2013	14:09
CV0664A-CS-SP MS	680-88632-45 MS	1DD02012.D	04/02/2013	14:32
CV0664A-CS-SP MSD	680-88632-45 MSD	1DD02013.D	04/02/2013	14:54

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
Calibration ID: 2760

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

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
Calibration ID: 2760

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

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
 SDG No.: 68088632-3
 Sample No.: CCVIS 660-135996/3 Date Analyzed: 04/01/2013 11:31
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD01003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		761650	3.72	604806	4.80	1101759	5.76
UPPER LIMIT		1523300	4.22	1209612	5.30	2203518	6.26
LOWER LIMIT		380825	3.22	302403	4.30	550880	5.26
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 660-135843/1-A		615973	3.72	487906	4.80	918261	5.75
LCS 660-135843/2-A		624323	3.72	524237	4.80	955931	5.75
680-88632-A-10-D MS		655029	3.72	516035	4.80	936821	5.75
680-88632-A-10-C MSD		691250	3.72	560459	4.80	1008510	5.75
680-88632-46		CV0664B-CS-SP	936704	727358	4.80	1277226	5.76
680-88632-47		HP0084A-CS-SP	723303	565160	4.80	1017811	5.75

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
 SDG No.: 68088632-3
 Sample No.: CCVIS 660-135996/3 Date Analyzed: 04/01/2013 11:31
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD01003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1332309	7.70	1345071	8.89		
UPPER LIMIT	2664618	8.20	2690142	9.39		
LOWER LIMIT	666155	7.20	672536	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135843/1-A		1067842	7.69	1091075	8.87	
LCS 660-135843/2-A		1186437	7.69	1208573	8.87	
680-88632-A-10-D MS		1084495	7.69	1027644	8.87	
680-88632-A-10-C MSD		1100421	7.69	1067194	8.87	
680-88632-46	CV0664B-CS-SP	1369001	7.69	1309498	8.87	
680-88632-47	HP0084A-CS-SP	1074950	7.69	1005404	8.87	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
SDG No.: 68088632-3
Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N
Calibration ID: 2859

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

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N
Calibration ID: 2859

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

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
 SDG No.: 68088632-3
 Sample No.: CCVIS 660-136079/3 Date Analyzed: 04/02/2013 16:40
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD02015.D Heated Purge: (Y/N) N
 Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		497056	3.71	363517	4.80	670971	5.75
UPPER LIMIT		994112	4.21	727034	5.30	1341942	6.25
LOWER LIMIT		248528	3.21	181759	4.30	335486	5.25
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 660-135924/1-A		569471	3.71	504679	4.80	959879	5.75
LCS 660-135924/2-A		536976	3.71	477938	4.80	982106	5.75
680-88632-A-21-B MS		583262	3.71	519154	4.80	1060524	5.75
680-88632-A-21-C MSD		597406	3.71	494548	4.80	988760	5.75
680-88632-49		HP0084C-GS-SP	631410	531863	4.80	1032380	5.75

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
SDG No.: 68088632-3
Sample No.: CCVIS 660-136079/3 Date Analyzed: 04/02/2013 16:40
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02015.D Heated Purge: (Y/N) N
Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		842326	7.69	926334	8.86		
UPPER LIMIT		1684652	8.19	1852668	9.36		
LOWER LIMIT		421163	7.19	463167	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135924/1-A		1168702	7.69	1102080	8.86		
LCS 660-135924/2-A		1206373	7.69	1158196	8.86		
680-88632-A-21-B MS		1203389	7.69	1130015	8.86		
680-88632-A-21-C MSD		1197197	7.69	1105114	8.86		
680-88632-49	HP0084C-GS-SP	1219735	7.69	1125076	8.86		

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
SDG No.: 68088632-3
Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N
Calibration ID: 2859

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	500765	3.70	364027	4.79	687020	5.74
UPPER LIMIT	1001530	4.20	728054	5.29	1374040	6.24
LOWER LIMIT	250383	3.20	182014	4.29	343510	5.24
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88632-48	HP0084B-CS-SP		543325	3.71	399346	4.79
					725469	5.74

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N
Calibration ID: 2859

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	857573	7.68	866012	8.85		
UPPER LIMIT	1715146	8.18	1732024	9.35		
LOWER LIMIT	428787	7.18	433006	8.35		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88632-48	HP0084B-CS-SP		847208	7.67	876039	8.85

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
SDG No.: 68088632-3
Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N
Calibration ID: 2761

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

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N
Calibration ID: 2761

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

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Sample No.: CCVIS 660-136046/7 Date Analyzed: 04/02/2013 12:39
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD02007.D Heated Purge: (Y/N) N
 Calibration ID: 2761

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	3073330	6.09	1924753	7.77	3200814	9.04
UPPER LIMIT	6146660	6.59	3849506	8.27	6401628	9.54
LOWER LIMIT	1536665	5.59	962377	7.27	1600407	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135965/1-A		2708257	6.09	1742662	7.77	2848951 9.03
LCS 660-135965/2-A		2784956	6.09	1814403	7.77	2934792 9.03
680-88632-45	CV0664A-CS-SP	3045367	6.09	1959135	7.77	3272947 9.04
680-88632-45 MS	CV0664A-CS-SP MS	3026716	6.09	1926427	7.77	3186482 9.03
680-88632-45 MSD	CV0664A-CS-SP MSD	3088649	6.10	1951701	7.78	3203803 9.04

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88632-3
 SDG No.: 68088632-3
 Sample No.: CCVIS 660-136046/7 Date Analyzed: 04/02/2013 12:39
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD02007.D Heated Purge: (Y/N) N
 Calibration ID: 2761

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	3243813	11.36	3280597	13.21		
UPPER LIMIT	6487626	11.86	6561194	13.71		
LOWER LIMIT	1621907	10.86	1640299	12.71		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135965/1-A		2830312	11.35	2835380	13.20	
LCS 660-135965/2-A		3047201	11.36	2977201	13.21	
680-88632-45	CV0664A-CS-SP	3246757	11.36	3278613	13.21	
680-88632-45 MS	CV0664A-CS-SP MS	3182619	11.36	3329282	13.22	
680-88632-45 MSD	CV0664A-CS-SP MSD	3241962	11.37	3413636	13.22	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>CV0664A-CS-SP</u>	Lab Sample ID: <u>680-88632-45</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD02011.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 08:56</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/01/2013 08:27</u>
Sample wt/vol: <u>14.82(g)</u>	Date Analyzed: <u>04/02/2013 14:09</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>17.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136046</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	11	J	49	6.2
120-12-7	Anthracene	18		10	5.2
56-55-3	Benzo[a]anthracene	96		9.9	4.8
50-32-8	Benzo[a]pyrene	79		13	6.4
205-99-2	Benzo[b]fluoranthene	150		15	7.5
191-24-2	Benzo[g,h,i]perylene	76		25	5.4
207-08-9	Benzo[k]fluoranthene	55		9.9	4.4
218-01-9	Chrysene	130		11	5.5
53-70-3	Dibenz(a,h)anthracene	26		25	5.1
206-44-0	Fluoranthene	150		25	4.9
86-73-7	Fluorene	7.7	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	59		25	8.8
90-12-0	1-Methylnaphthalene	44	J	49	5.4
91-57-6	2-Methylnaphthalene	54		49	8.8
91-20-3	Naphthalene	52		49	5.4
85-01-8	Phenanthrene	120	B	9.9	4.8
129-00-0	Pyrene	120		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02011.D
 Lab Smp Id: 680-88632-A-45-A Client Smp ID: CV0664A-CS-SP
 Inj Date : 02-APR-2013 14:09
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88632-A-45-A
 Misc Info : 680-88632-A-45-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\dFASTPAHi.m
 Meth Date : 02-Apr-2013 13:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.820	Weight Extracted
M	17.907	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.093	6.092	(1.000)	3045367	40.0000		
*	6 Acenaphthene-d10	164	7.774	7.773	(1.000)	1959135	40.0000		
*	9 Phenanthrene-d10	188	9.037	9.036	(1.000)	3272947	40.0000		
\$	13 o-Terphenyl	230	9.336	9.342	(1.033)	214512	4.23829	350	
*	17 Chrysene-d12	240	11.358	11.363	(1.000)	3246757	40.0000		
*	22 Perylene-d12	264	13.208	13.208	(1.000)	3278613	40.0000		
	2 Naphthalene	128	6.111	6.116	(1.003)	51876	0.63678	52	
	3 2-Methylnaphthalene	142	6.816	6.821	(1.119)	34179	0.65863	54	
	4 1-Methylnaphthalene	142	6.910	6.915	(1.134)	26057	0.53620	44	
	5 Acenaphthylene	152	7.638	7.644	(0.983)	11588	0.13416	11	
	8 Fluorene	166	8.238	8.243	(1.060)	5777	0.09389	7.7	
	10 Phenanthrene	178	9.049	9.054	(1.001)	133448	1.43634	120	
	11 Anthracene	178	9.090	9.095	(1.006)	20681	0.22248	18	
	12 Carbazole	167	9.231	9.230	(1.021)	15968	0.19216	16	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.030	10.035	(1.110)	178713	1.84323	150
15 Pyrene	202	10.218	10.223	(0.900)	146396	1.45362	120
16 Benzo(a)anthracene	228	11.340	11.339	(0.998)	103959	1.16954	96
18 Chrysene	228	11.375	11.386	(1.002)	148331	1.61636	130
19 Benzo(b)fluoranthene	252	12.650	12.655	(0.958)	154164	1.82679	150
20 Benzo(k)fluoranthene	252	12.680	12.696	(0.960)	59320	0.67134	55
21 Benzo(a)pyrene	252	13.097	13.114	(0.992)	80619	0.96536	79
23 Indeno(1,2,3-cd)pyrene	276	14.789	14.812	(1.120)	63714	0.71491	59(M)
24 Dibenzo(a,h)anthracene	278	14.812	14.841	(1.121)	25798	0.31344	26
25 Benzo(g,h,i)perylene	276	15.235	15.258	(1.153)	78733	0.92657	76

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD02011.D

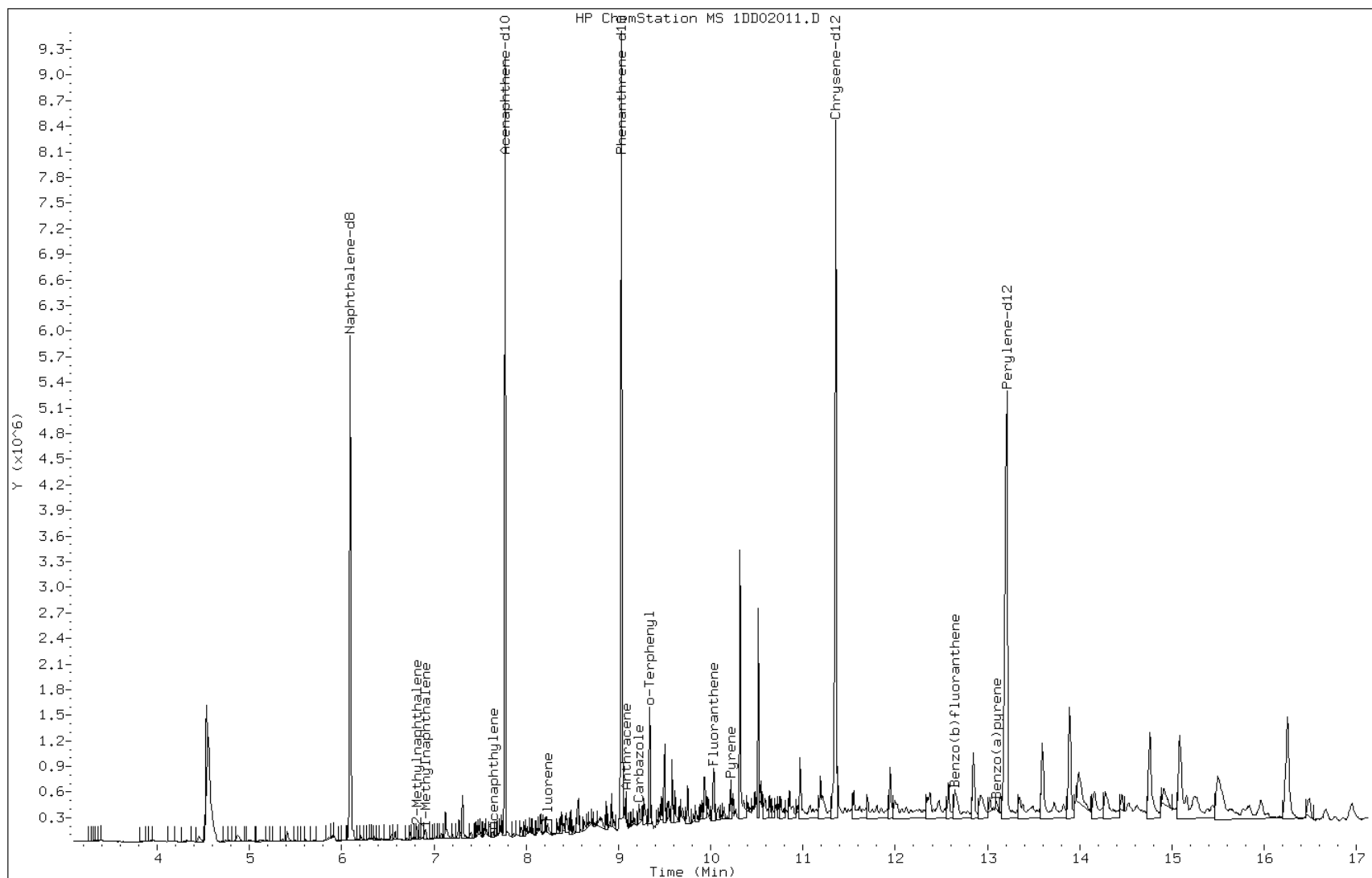
Date: 02-APR-2013 14:09

Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

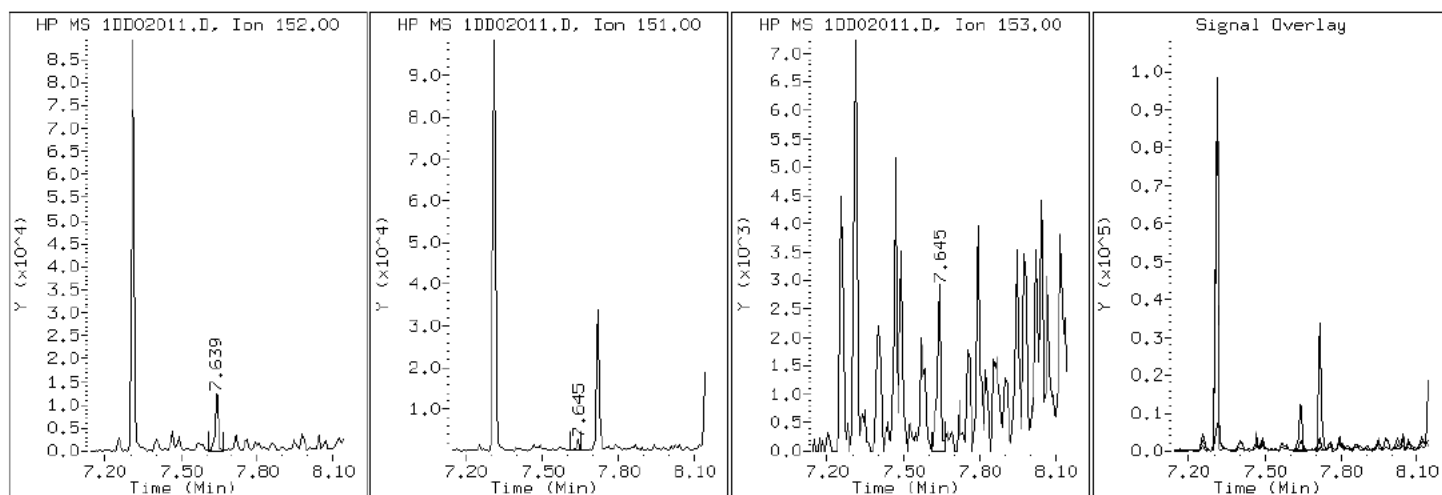
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

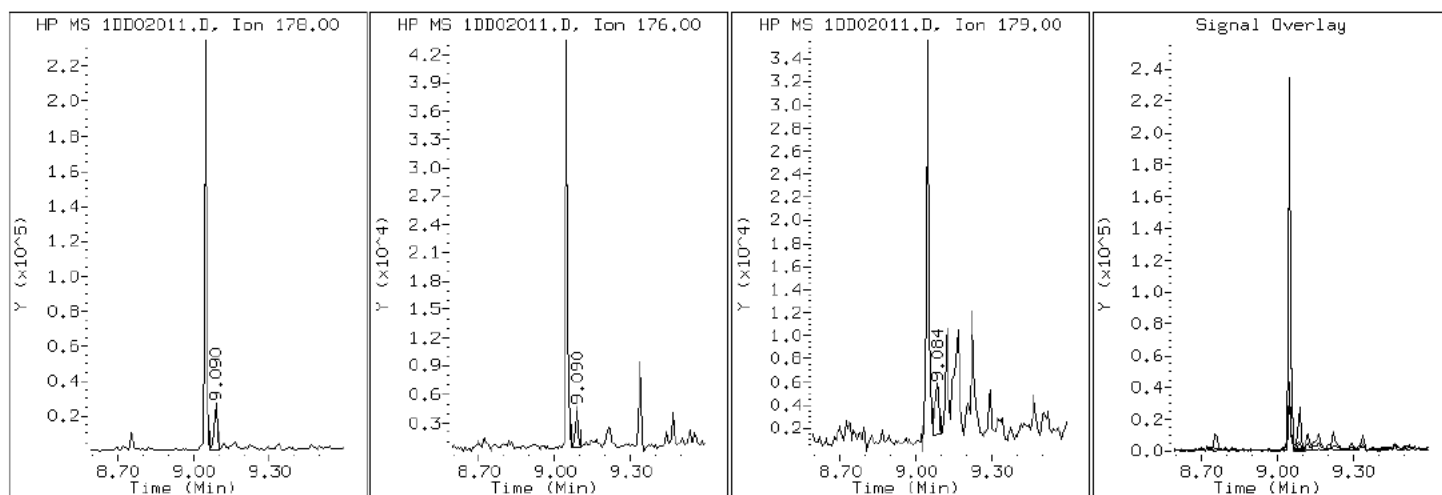
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

11 Anthracene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

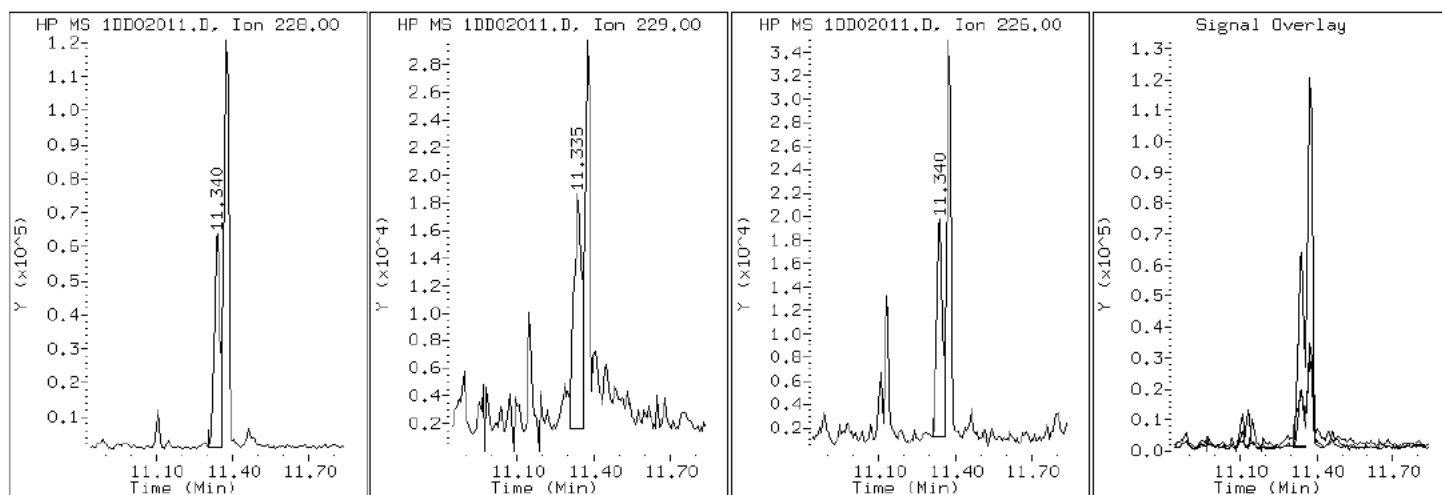
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

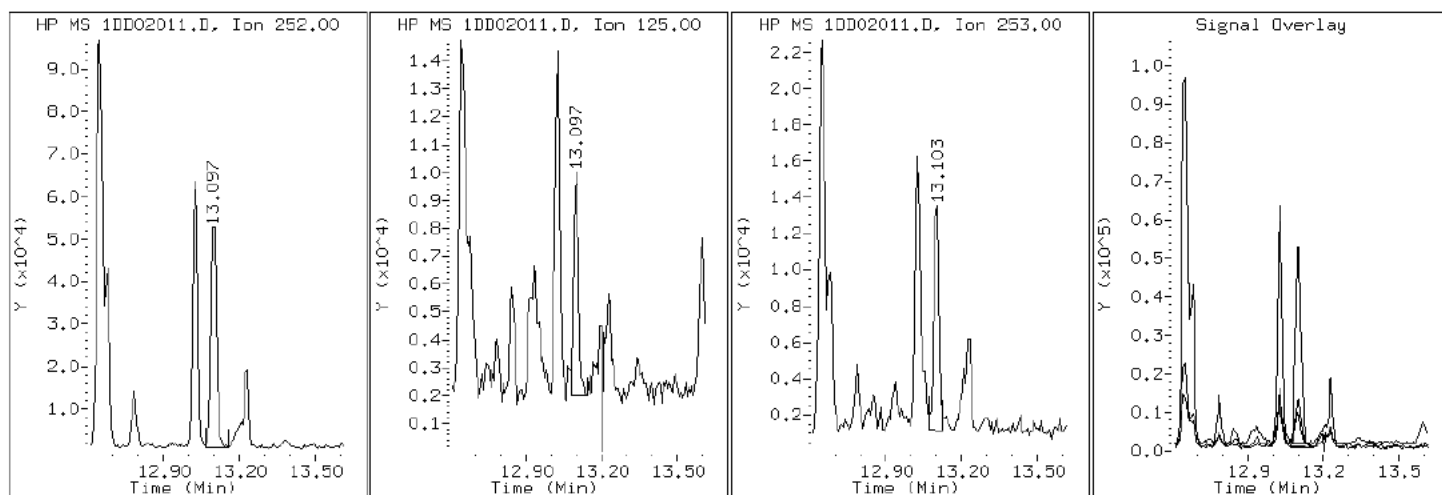
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

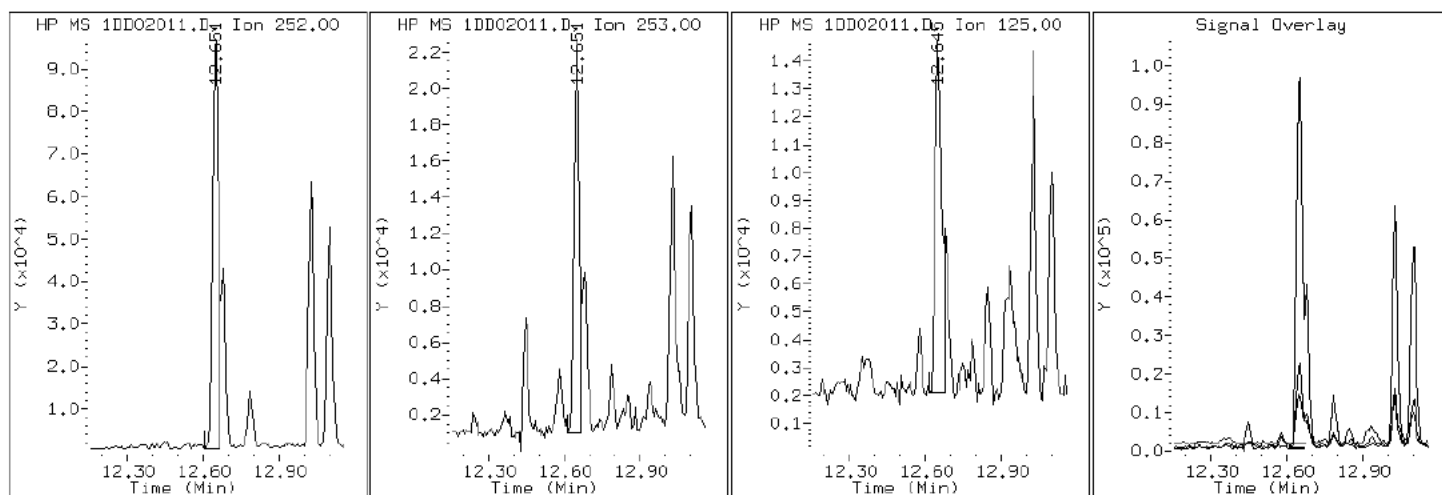
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

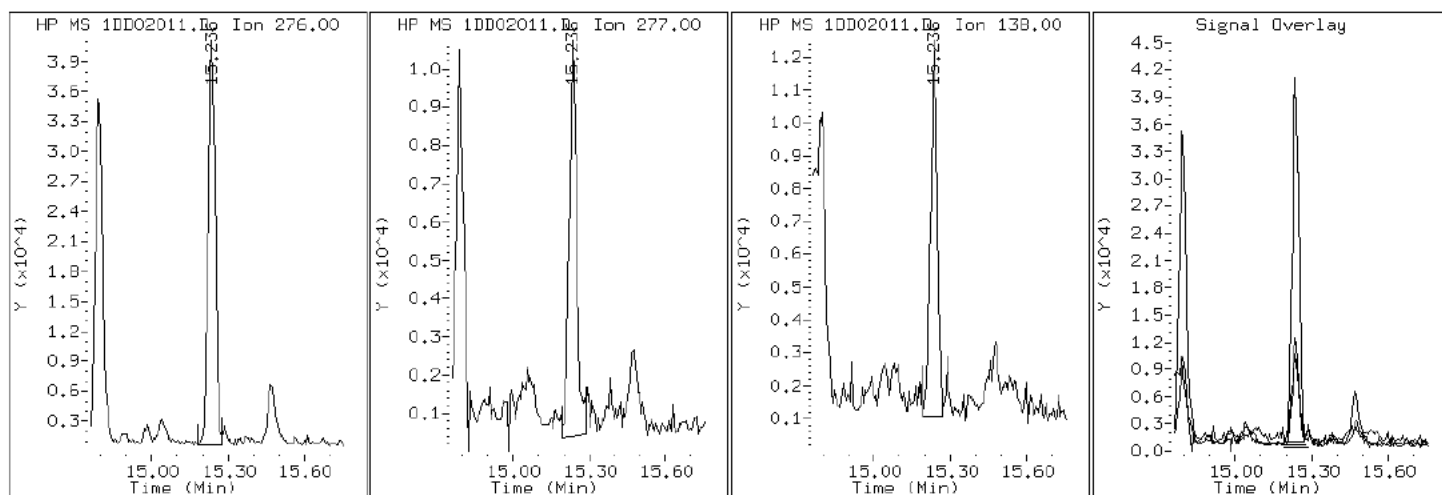
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

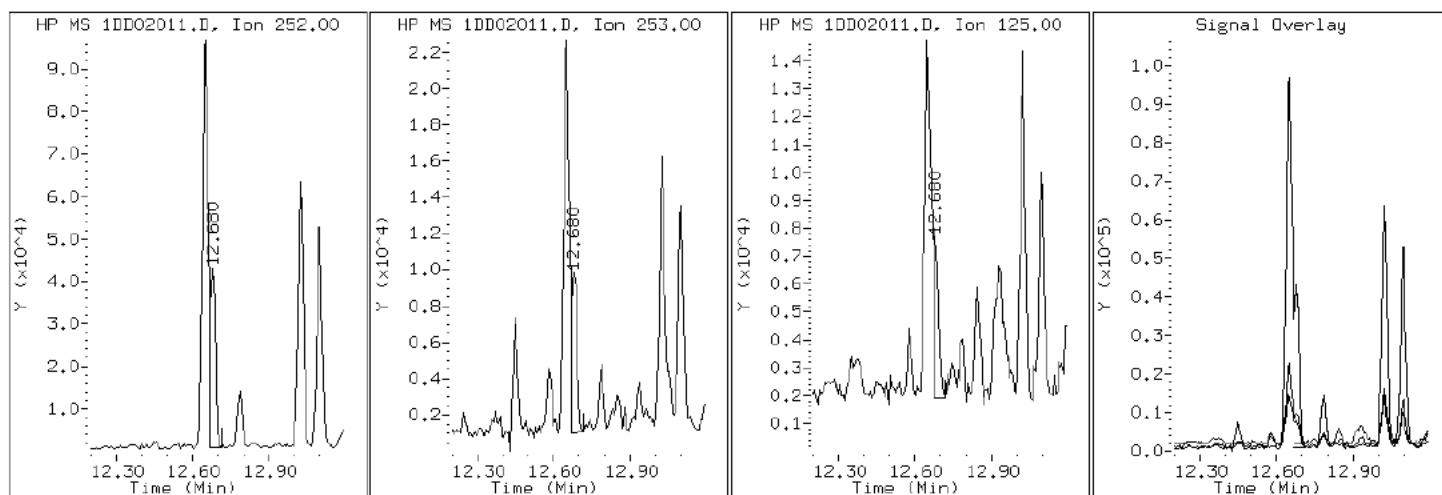
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

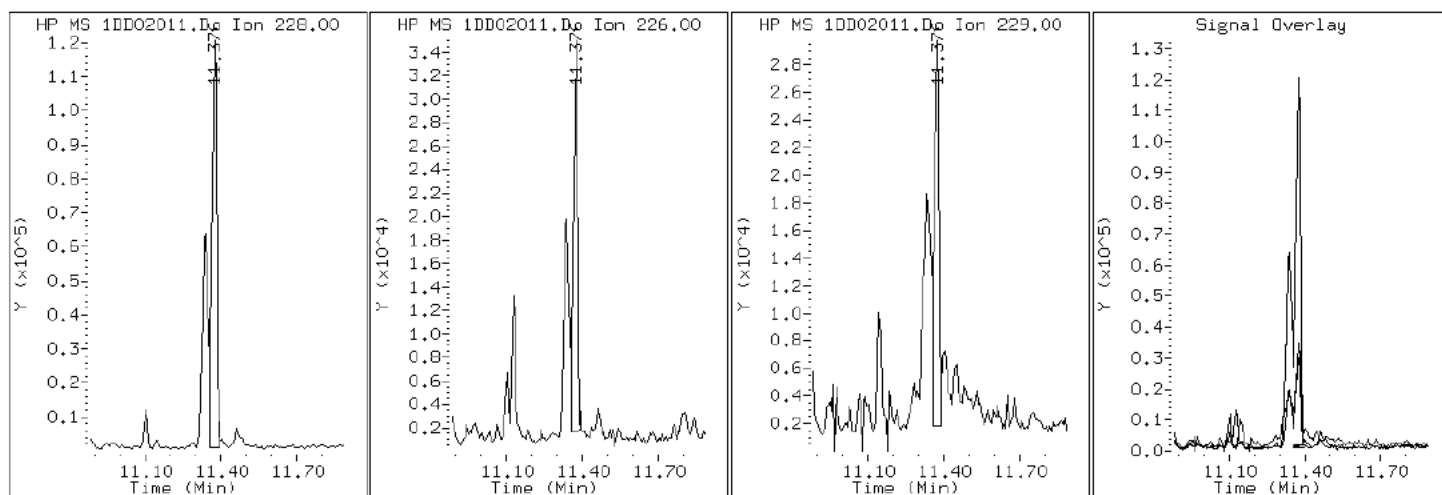
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

18 Chrysene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

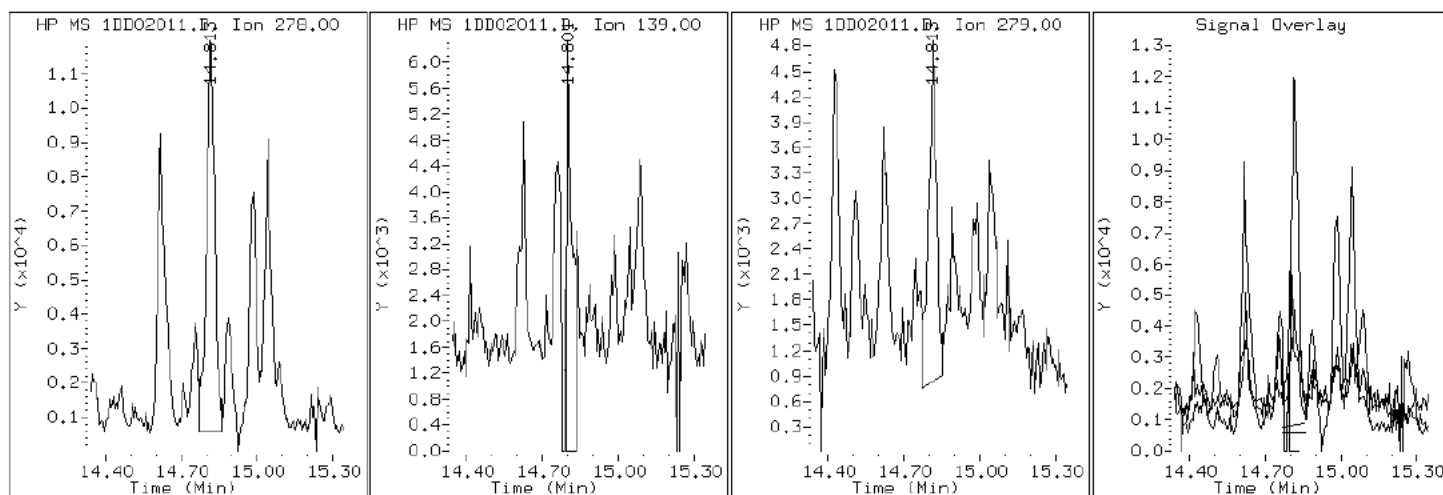
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

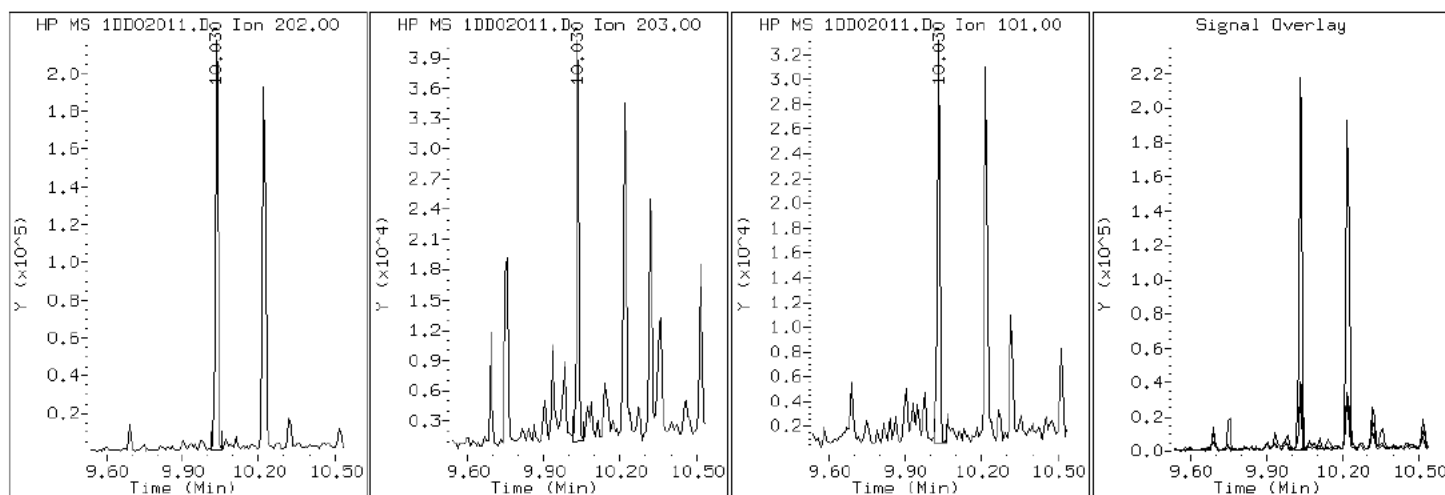
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

14 Fluoranthene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

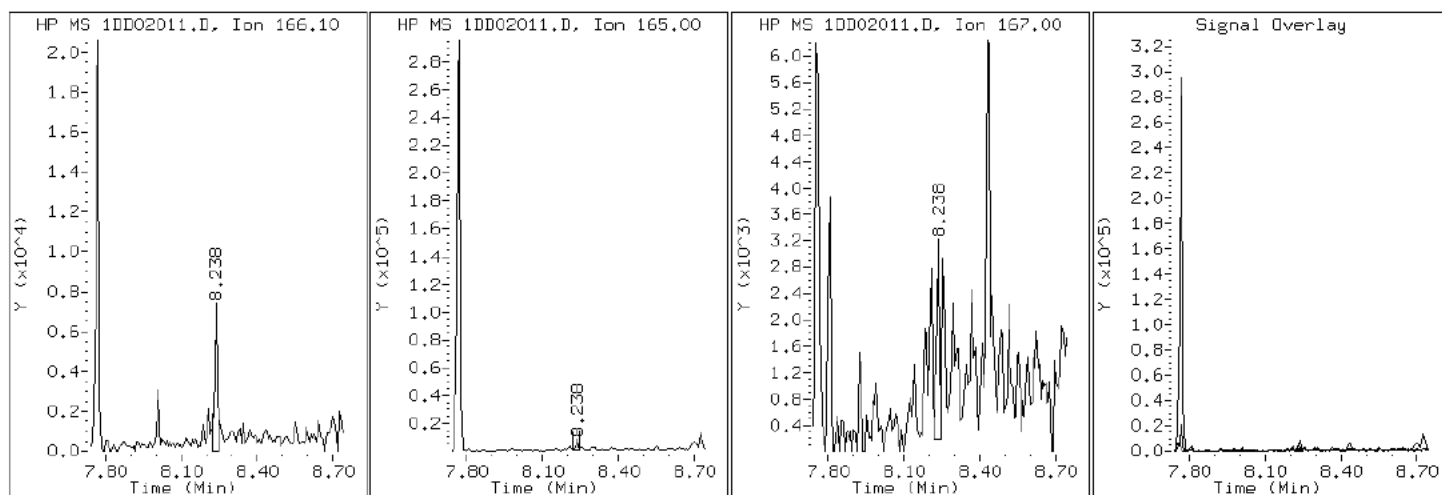
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

8 Fluorene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

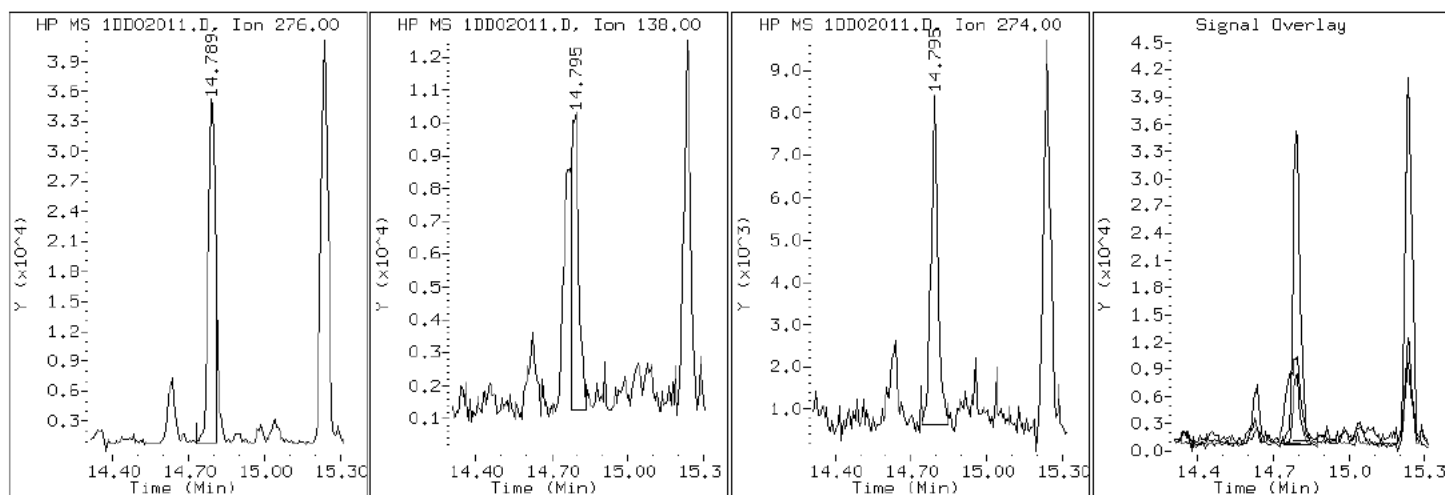
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

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



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

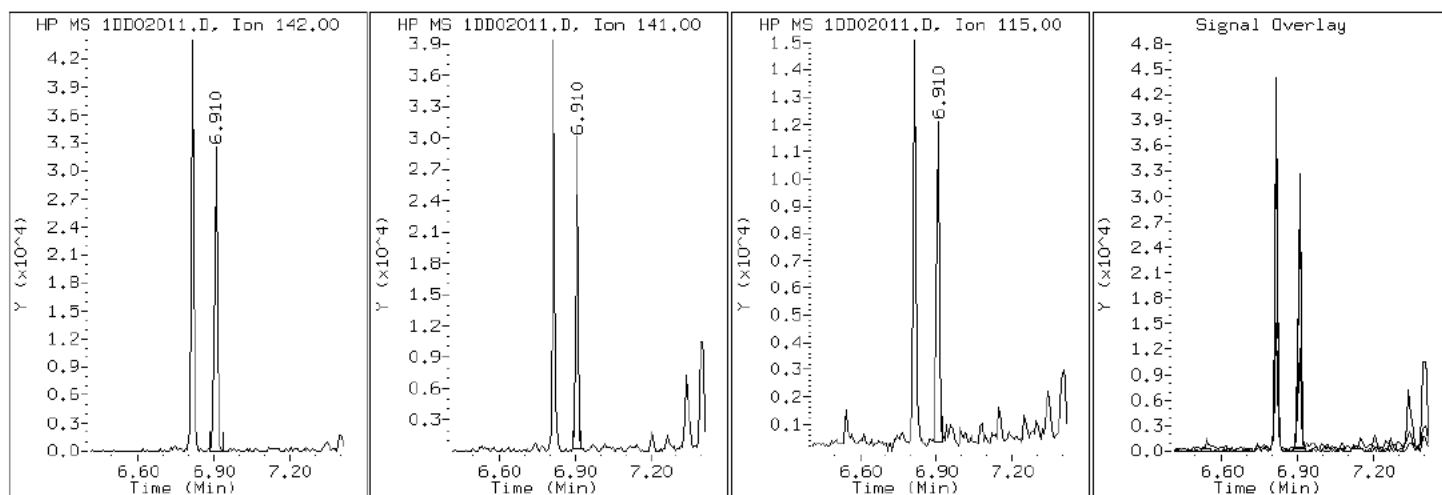
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

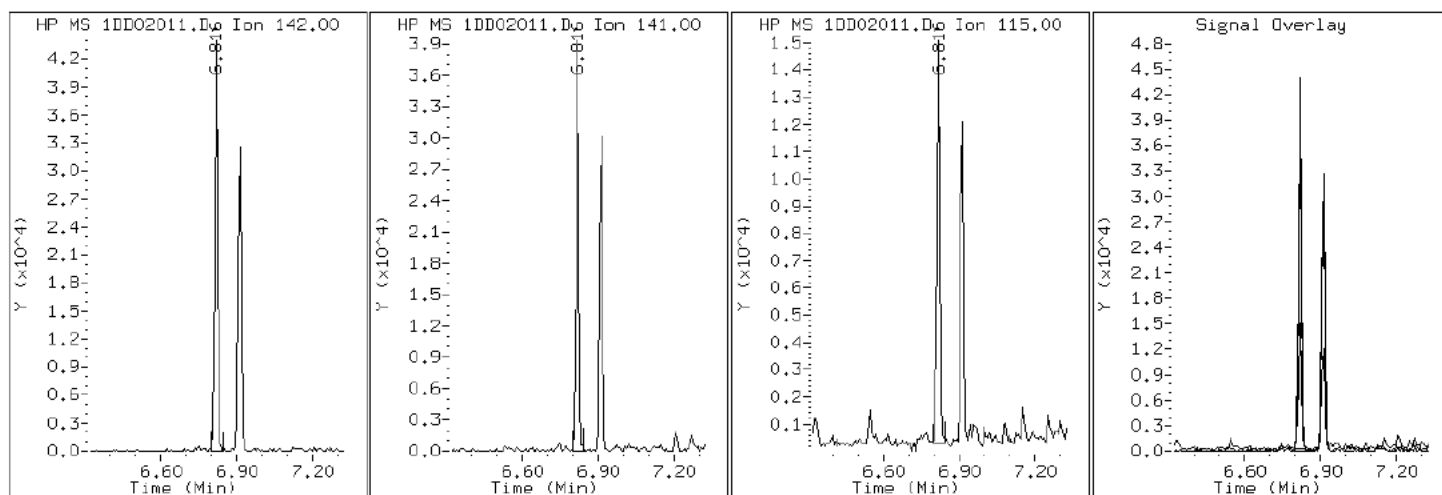
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

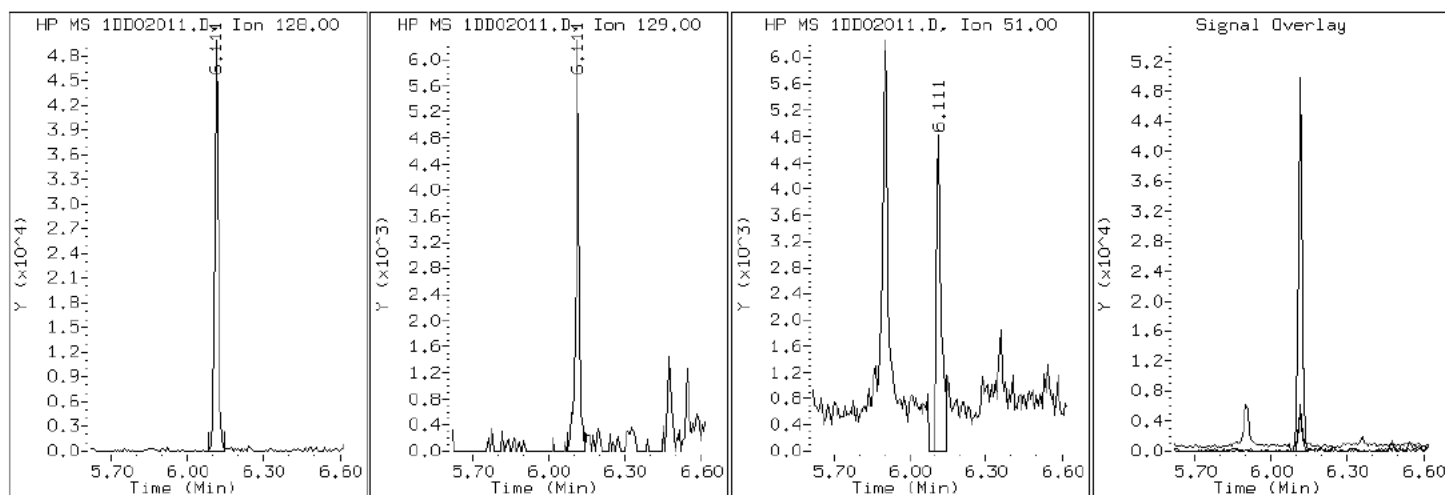
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

2 Naphthalene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

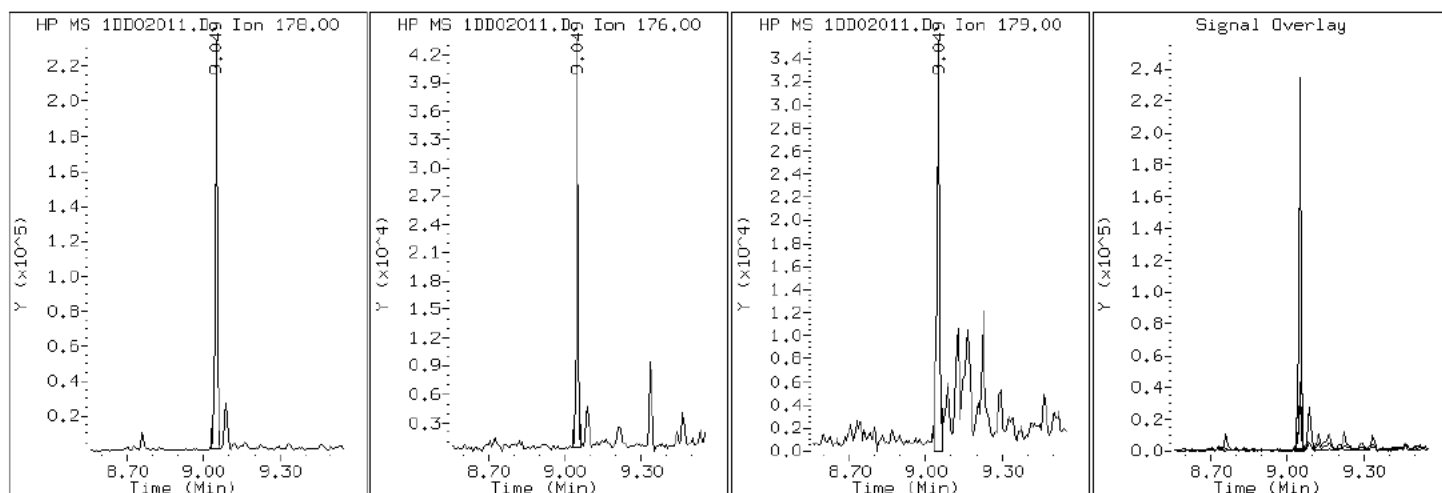
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

10 Phenanthrene



Data File: 1DD02011.D

Date: 02-APR-2013 14:09

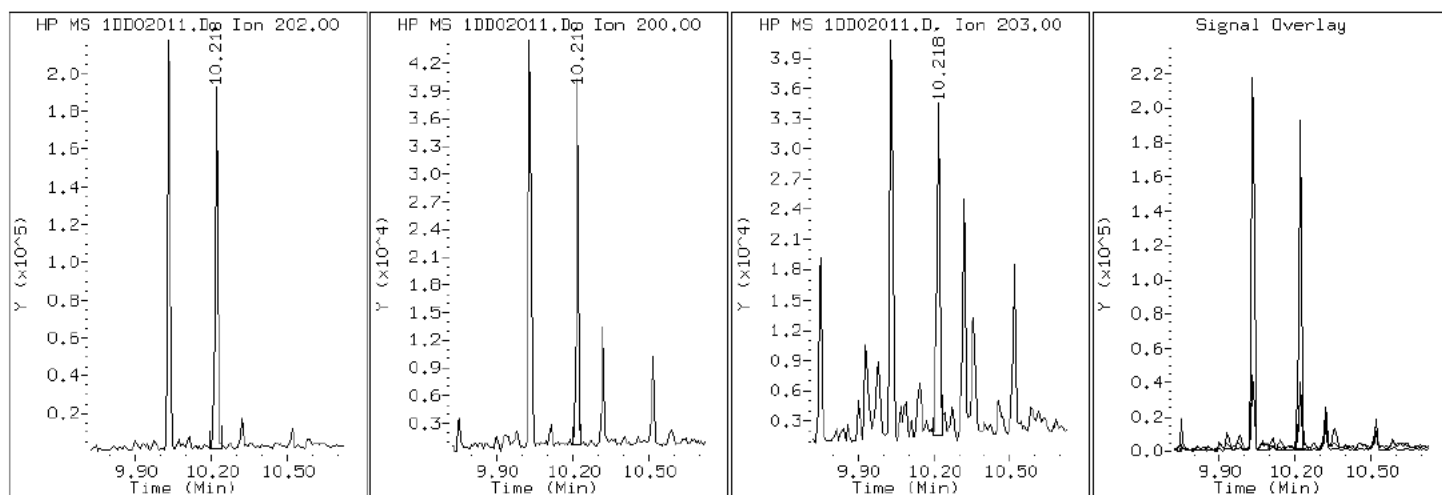
Client ID: CV0664A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-A

Operator: SCC

15 Pyrene

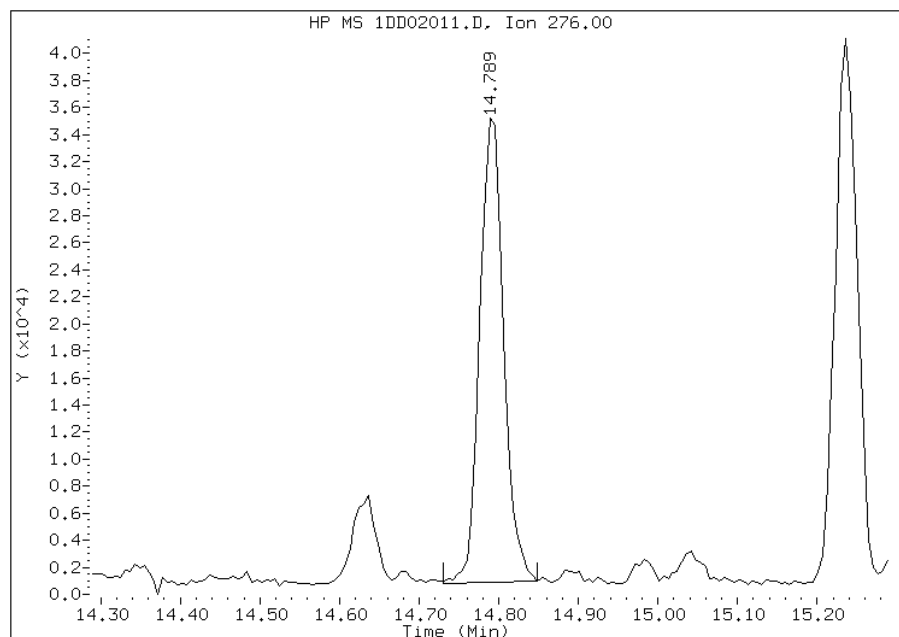


Manual Integration Report

Data File: 1DD02011.D
Inj. Date and Time: 02-APR-2013 14:09
Instrument ID: BSMSD.i
Client ID: CV0664A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

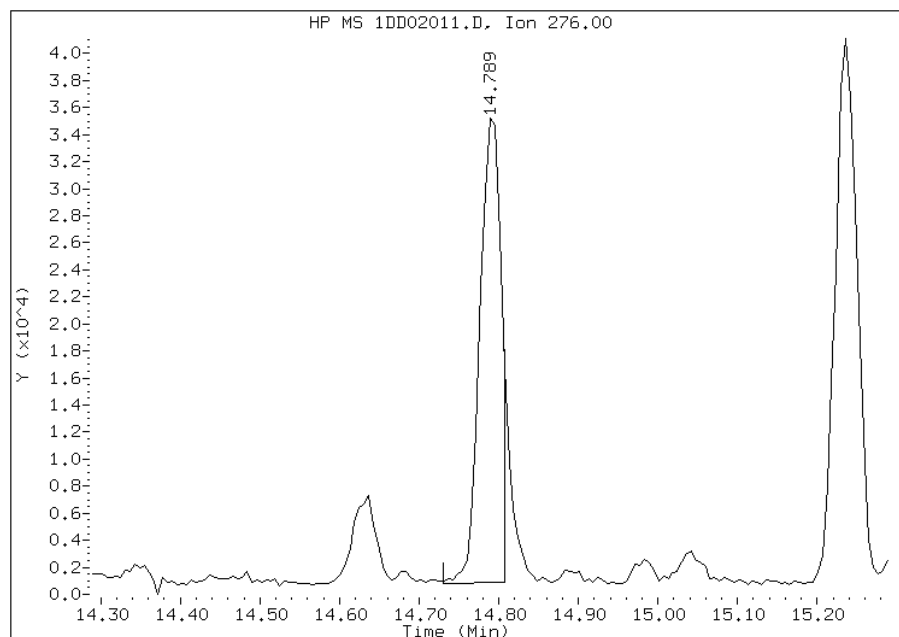
Processing Integration Results

RT: 14.79
Response: 71138
Amount: 1
Conc: 66



Manual Integration Results

RT: 14.79
Response: 63714
Amount: 1
Conc: 59



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 14:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>CV0664B-CS-SP</u>	Lab Sample ID: <u>680-88632-46</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD01034.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 09:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>15.09(g)</u>	Date Analyzed: <u>04/01/2013 21:16</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135996</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	67	J	200	25
120-12-7	Anthracene	75		43	21
56-55-3	Benzo[a]anthracene	390		41	20
50-32-8	Benzo[a]pyrene	330		53	26
205-99-2	Benzo[b]fluoranthene	620		62	31
191-24-2	Benzo[g,h,i]perylene	270		100	22
207-08-9	Benzo[k]fluoranthene	300		41	18
218-01-9	Chrysene	480		46	23
53-70-3	Dibenz(a,h)anthracene	98	J	100	21
206-44-0	Fluoranthene	540		100	20
86-73-7	Fluorene	26	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	250		100	36
90-12-0	1-Methylnaphthalene	250		200	22
91-57-6	2-Methylnaphthalene	340		200	36
91-20-3	Naphthalene	280		200	22
85-01-8	Phenanthrene	430		41	20
129-00-0	Pyrene	500		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01034.D
Lab Smp Id: 680-88632-A-46-A Client Smp ID: CV0664B-CS-SP
Inj Date : 01-APR-2013 21:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-46-a
Misc Info : 680-88632-A-46-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 34
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	21.928	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.716	3.716	(1.000)		936704	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)		727358	40.0000	
* 10 Phenanthrene-d10	188		5.757	5.757	(1.000)		1277226	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.043)		34716	1.80025	611.2394
* 18 Chrysene-d12	240		7.692	7.698	(1.000)		1369001	40.0000	
* 23 Perylene-d12	264		8.874	8.886	(1.000)		1309498	40.0000	
2 Naphthalene	128		3.733	3.733	(1.005)		19851	0.81403	276.3886
3 2-Methylnaphthalene	142		4.157	4.157	(1.119)		16215	0.99683	338.4545
4 1-Methylnaphthalene	142		4.221	4.222	(1.136)		10871	0.73379	249.1429
5 Acenaphthylene	152		4.721	4.716	(0.983)		5791	0.19748	67.0495
9 Fluorene	166		5.145	5.145	(1.071)		1733	0.07518	25.5258(Q)
11 Phenanthrene	178		5.768	5.768	(1.002)		47194	1.27787	433.8748
12 Anthracene	178		5.804	5.804	(1.008)		7954	0.22022	74.7699
13 Carbazole	167		5.915	5.910	(1.028)		5600	0.17442	59.2191

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.604	6.604	(1.147)	64366	1.59146	540.3462
16 Pyrene	202	6.774	6.774	(0.881)	53784	1.46192	496.3653
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	45199	1.14393	388.3980
19 Chrysene	228	7.709	7.715	(1.002)	56257	1.42273	483.0573
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	62092	1.81439	616.0373(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	31210	0.88901	301.8446(M)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	32695	0.98358	333.9542
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	22916	0.73284	248.8201(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	8816	0.28823	97.8626
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	25562	0.78144	265.3230(M)

QC Flag Legend

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

Data File: 1CD01034.D

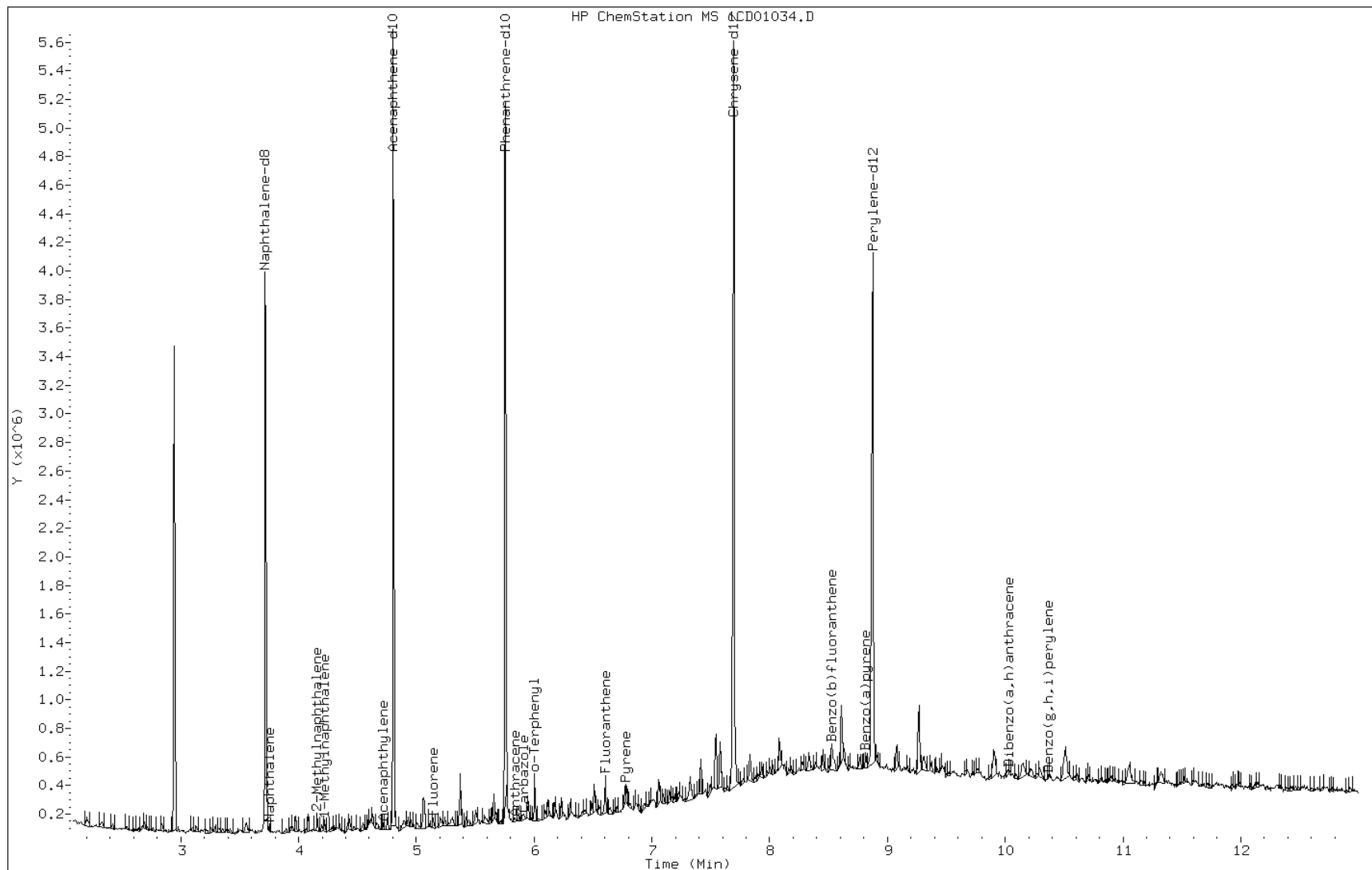
Date: 01-APR-2013 21:16

Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

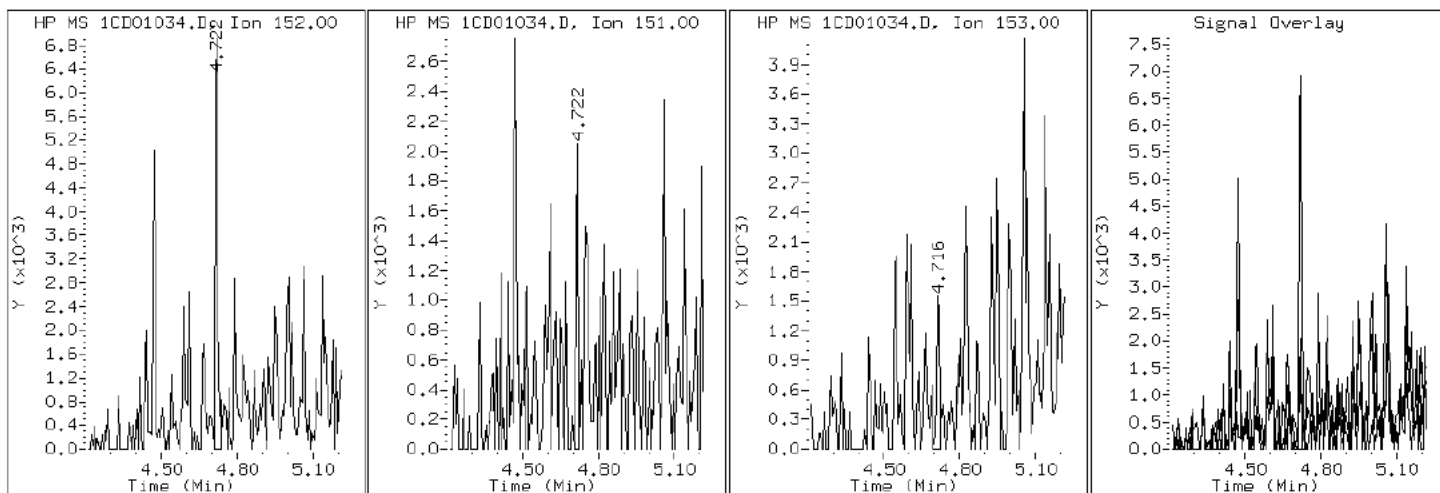
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

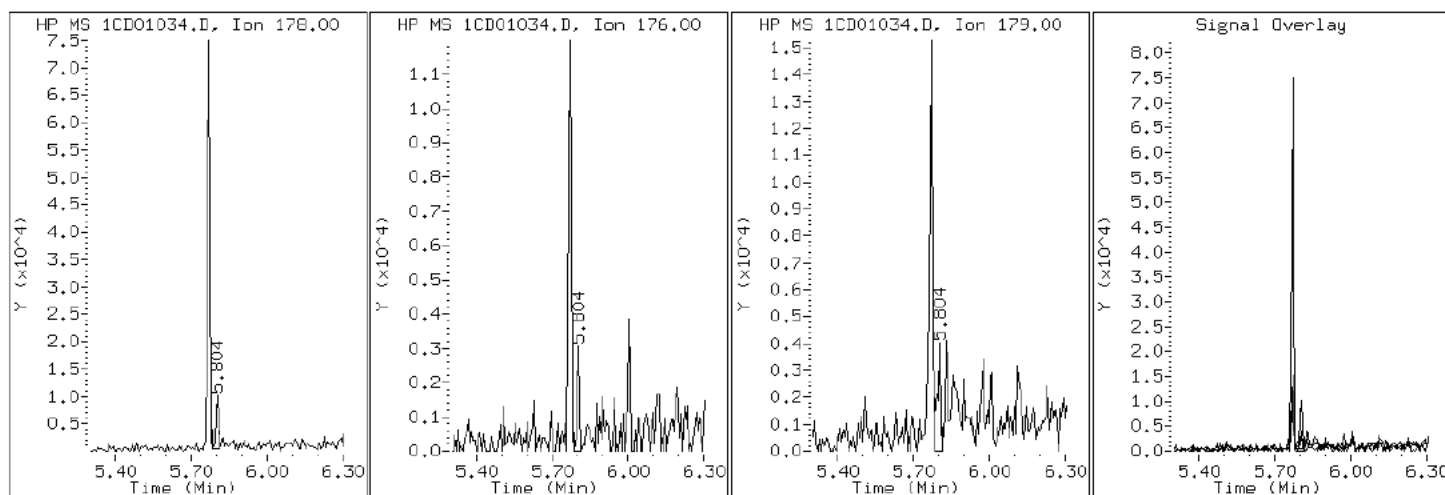
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

12 Anthracene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

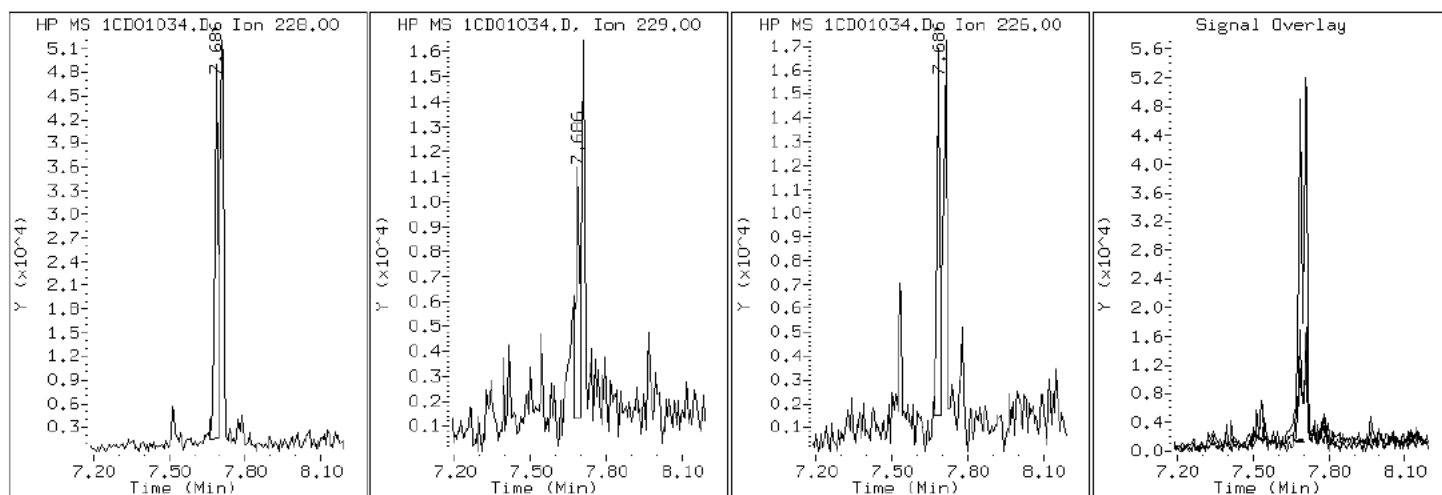
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

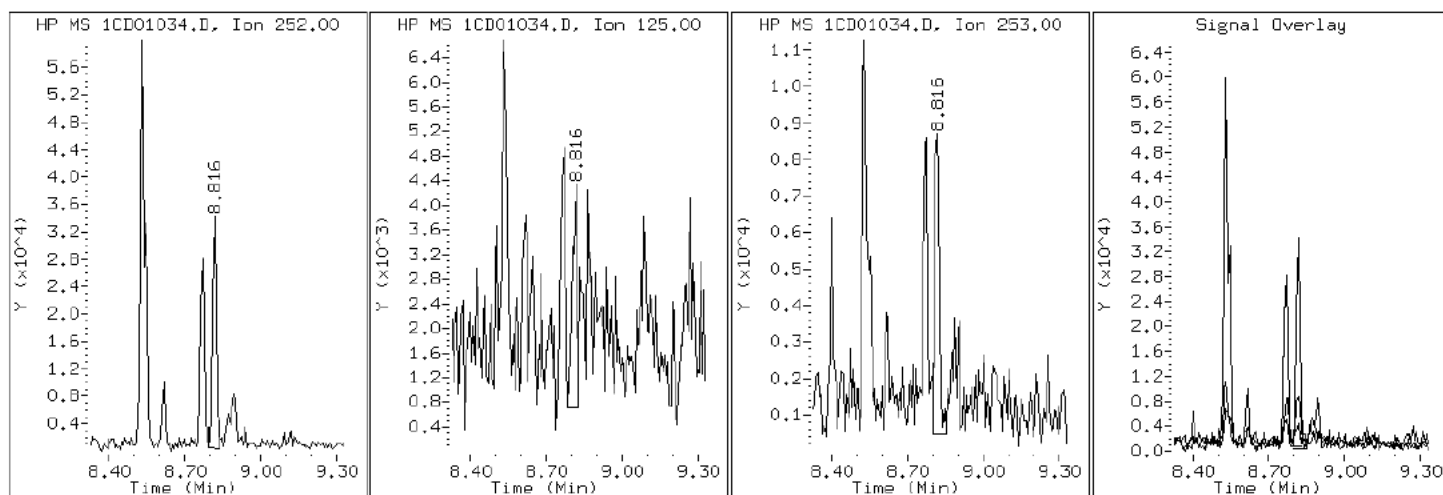
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

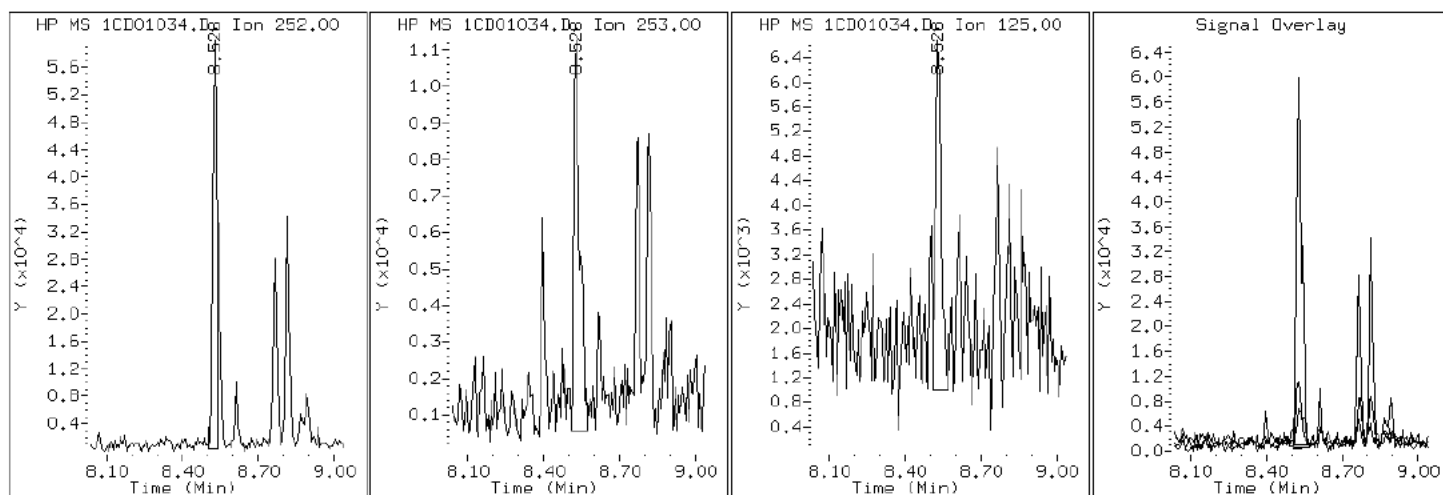
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

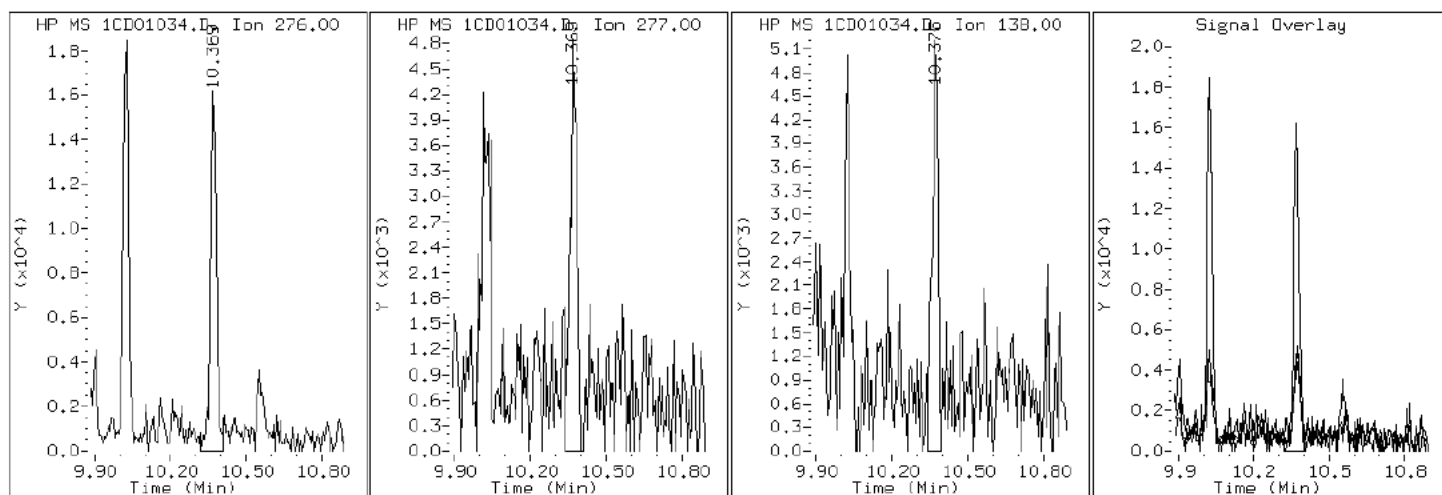
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

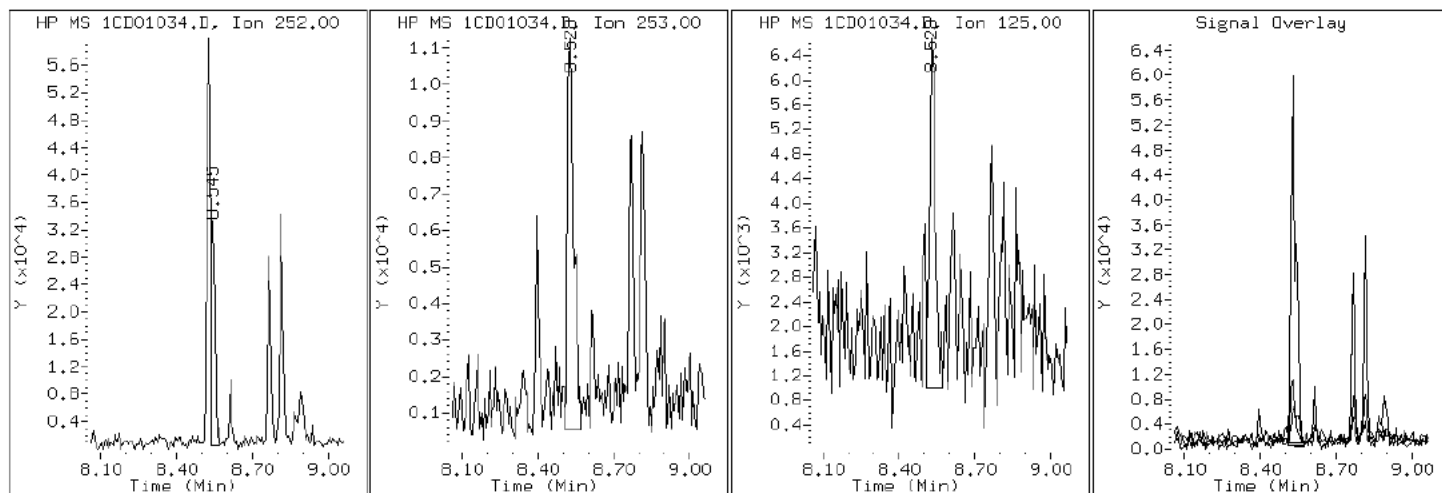
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

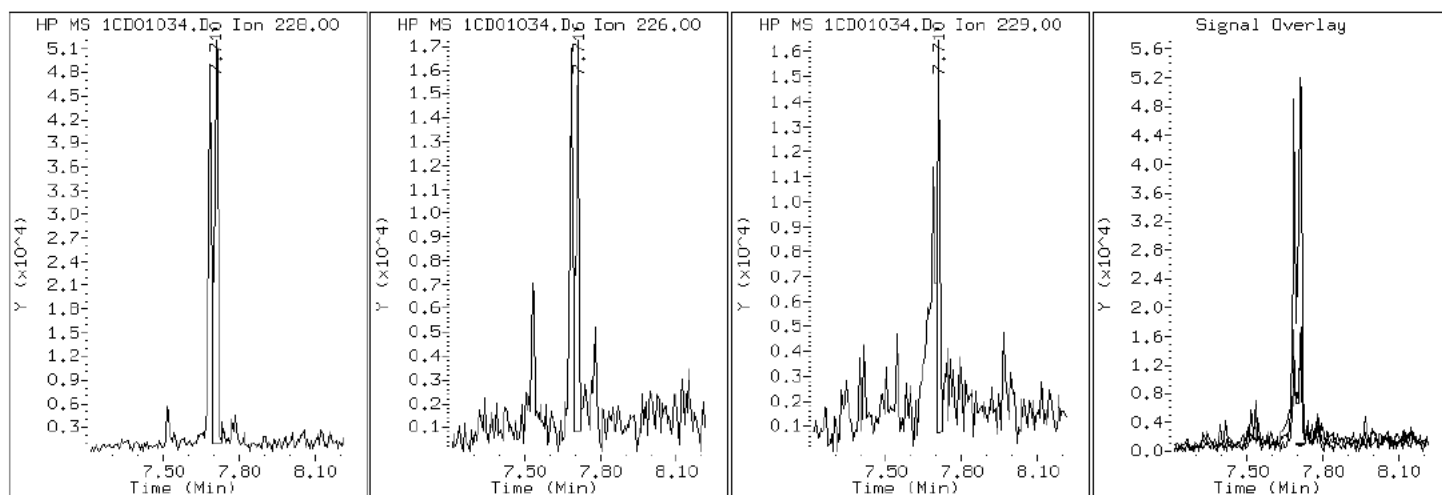
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

19 Chrysene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

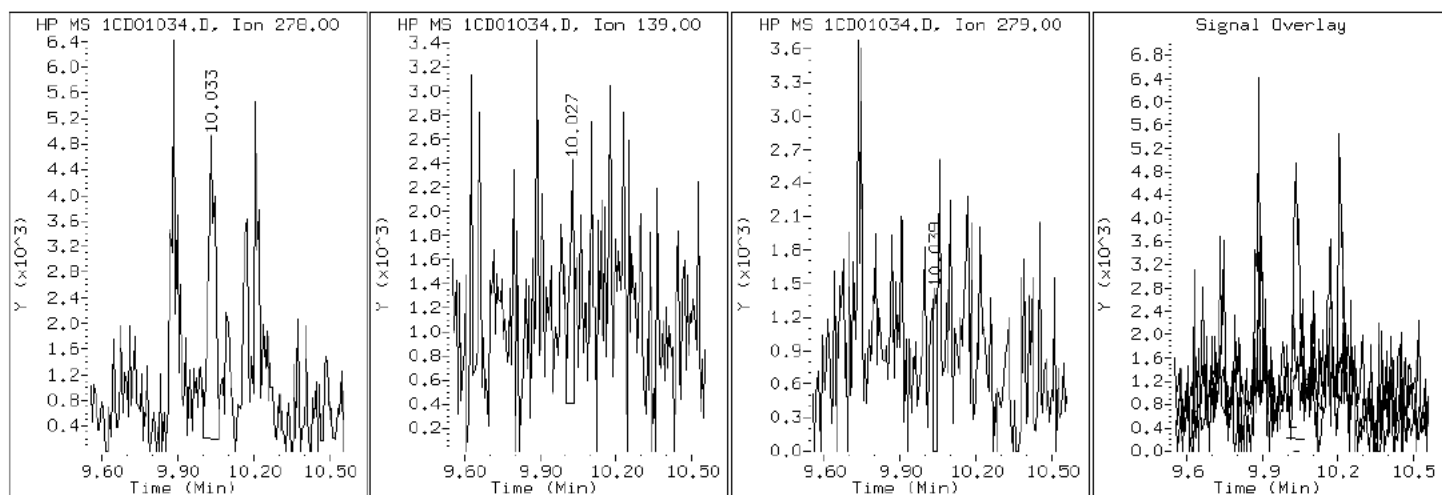
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

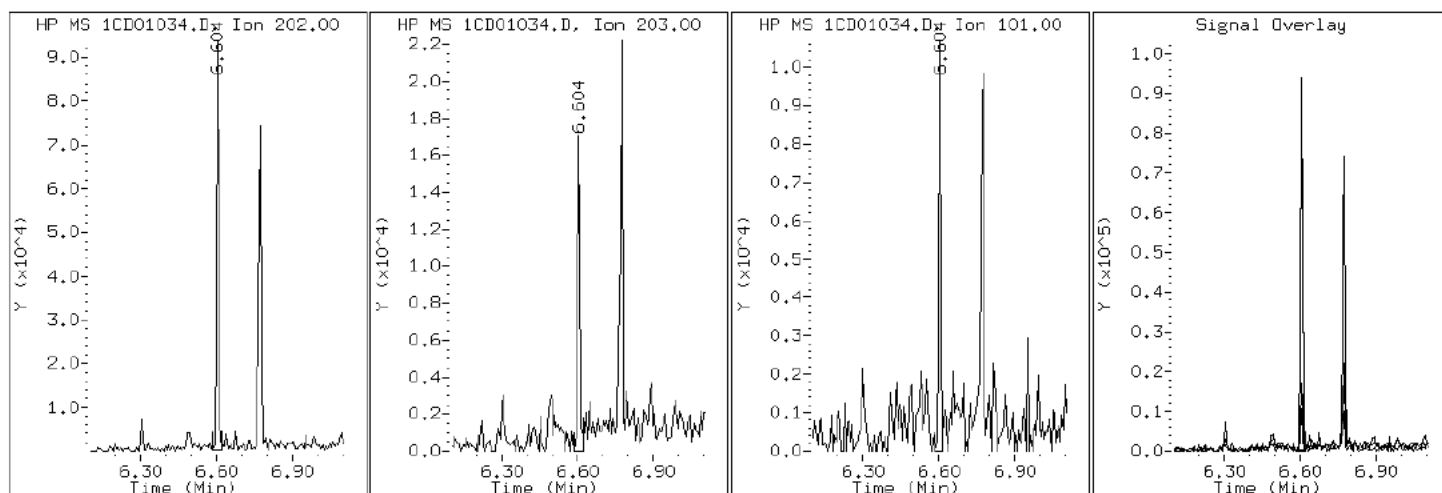
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

15 Fluoranthene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

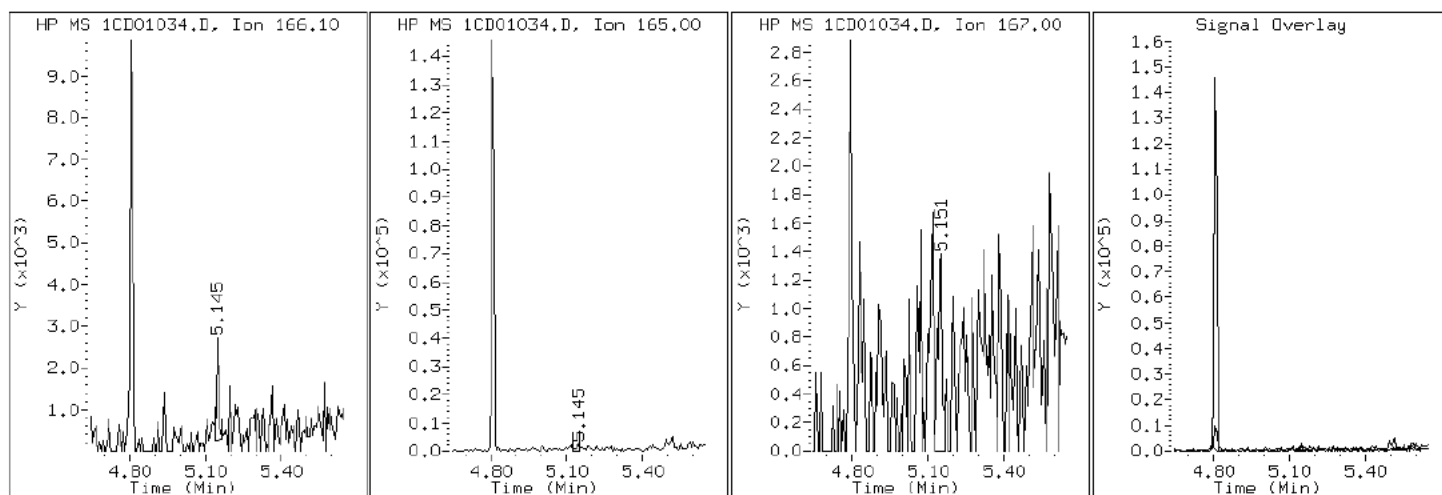
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

9 Fluorene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

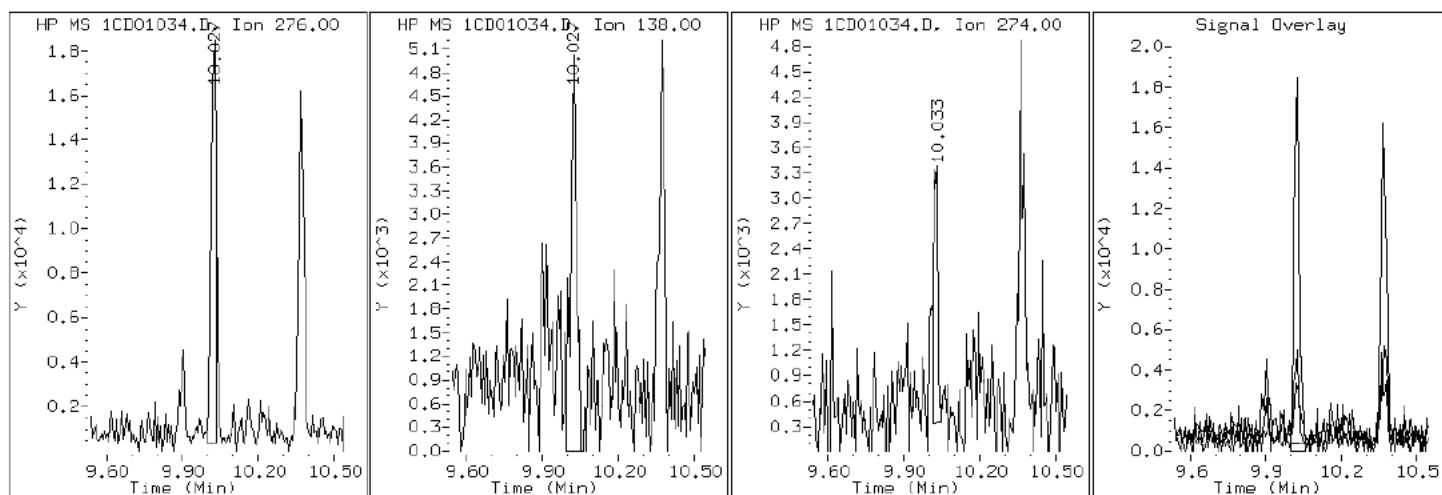
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

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



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

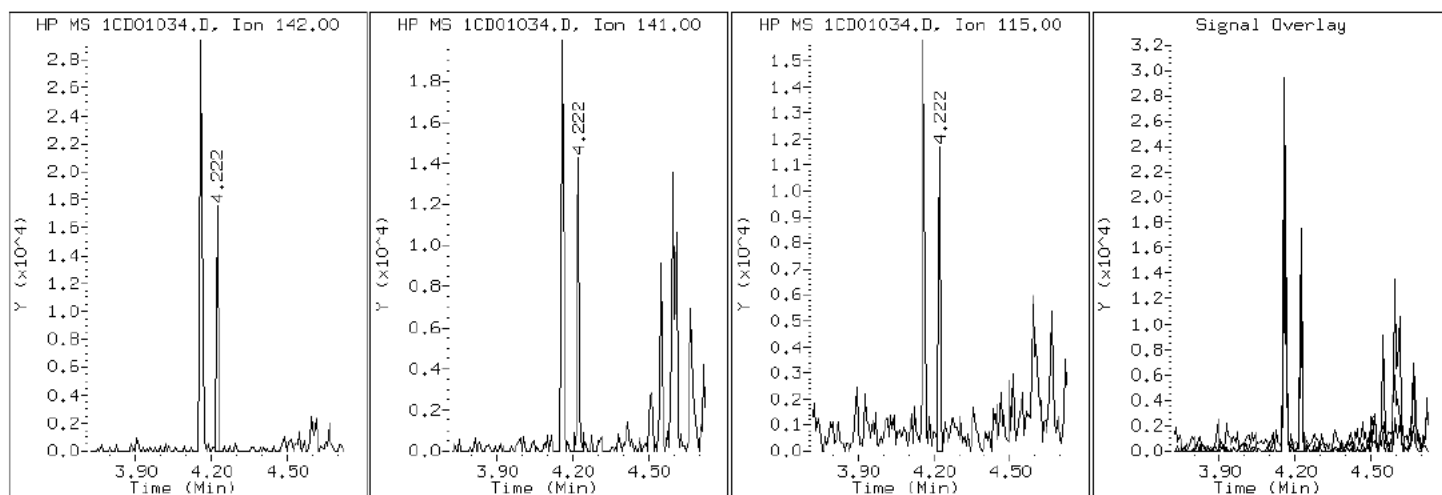
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

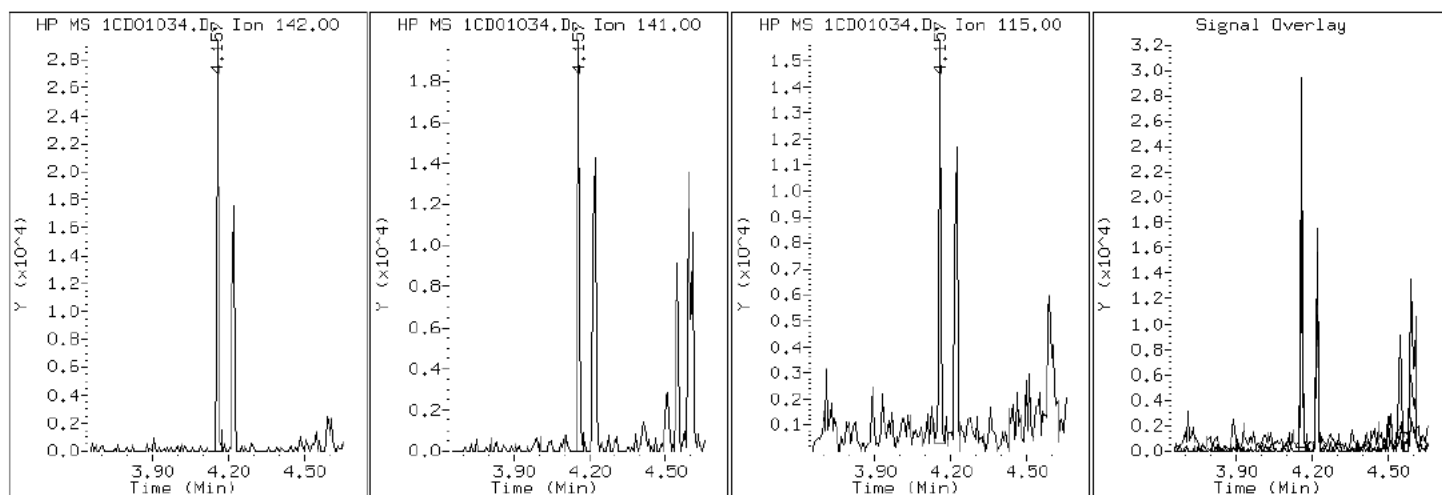
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

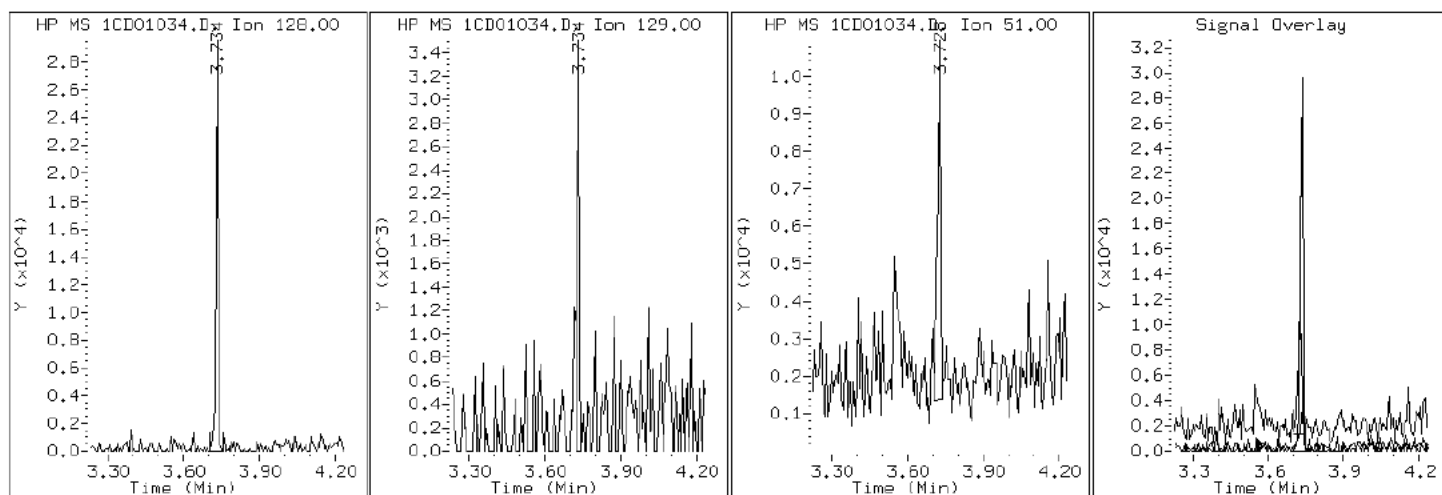
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

2 Naphthalene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

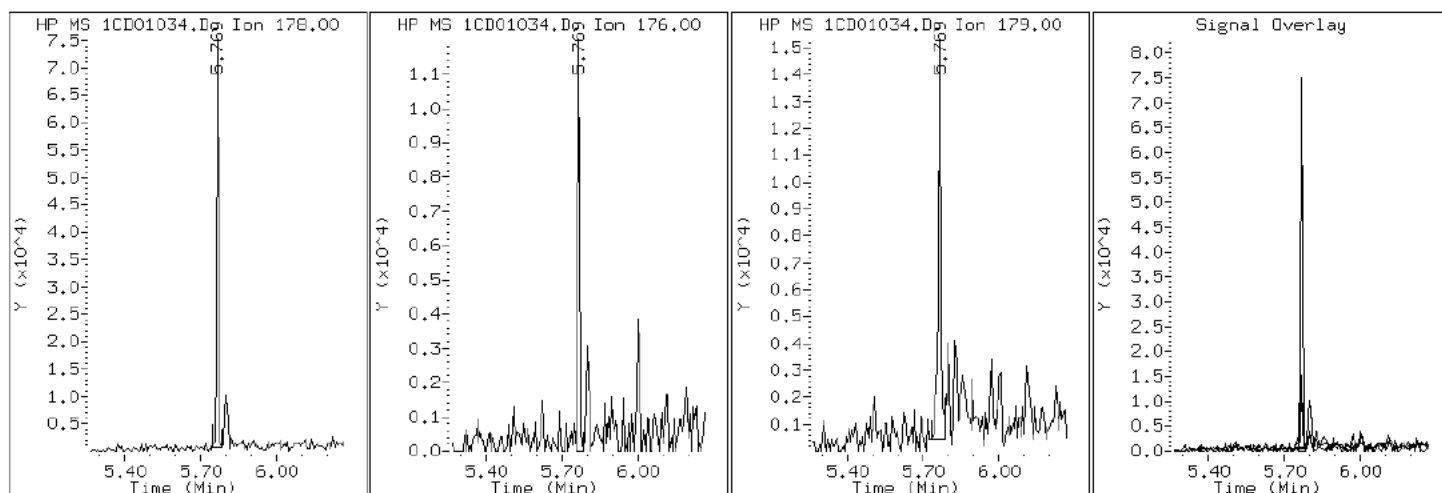
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

11 Phenanthrene



Data File: 1CD01034.D

Date: 01-APR-2013 21:16

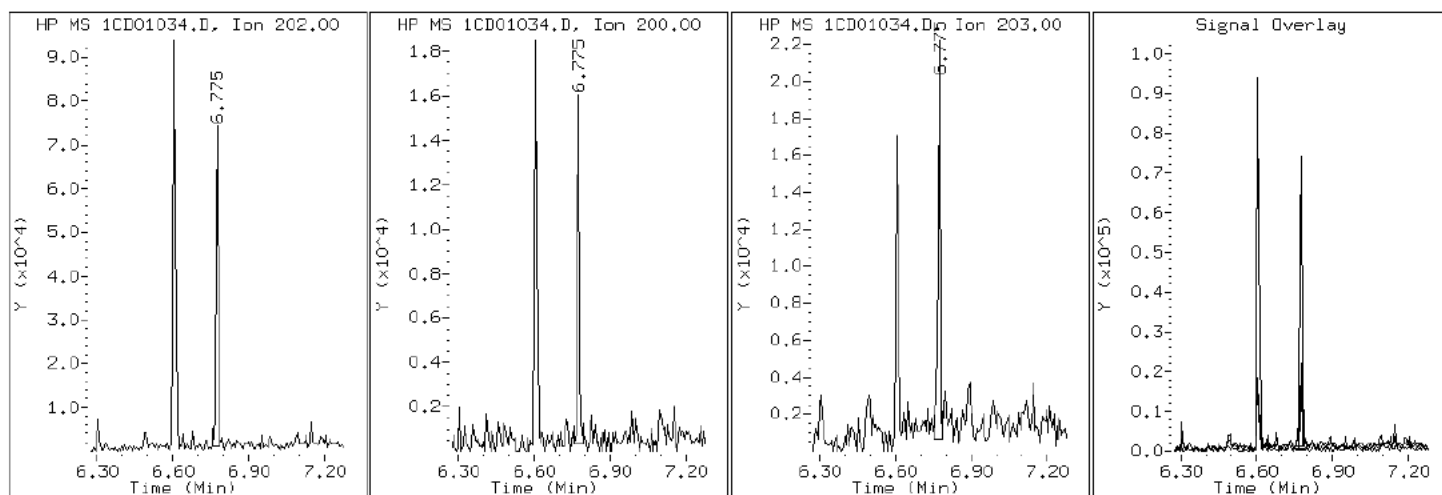
Client ID: CV0664B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-46-a

Operator: SCC

16 Pyrene

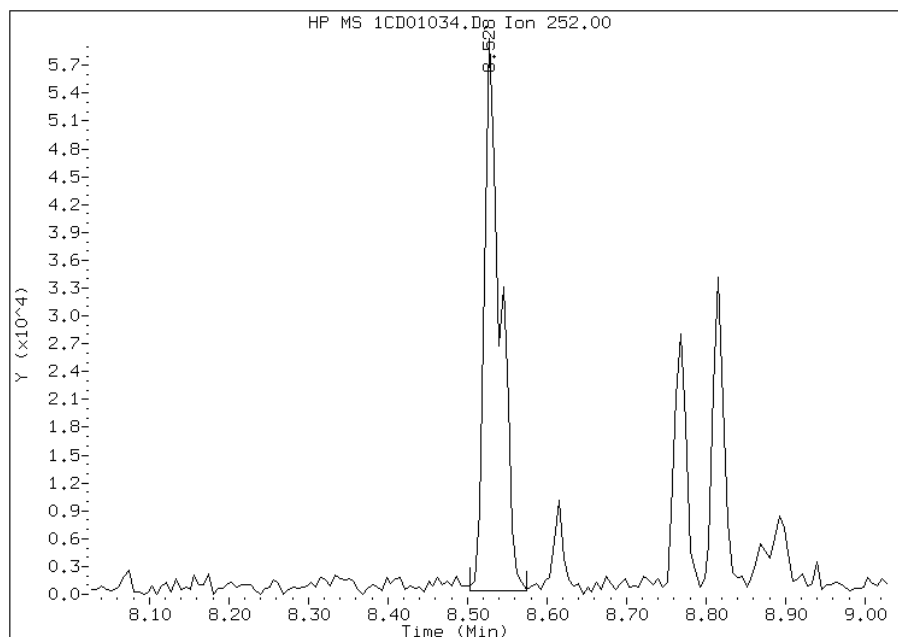


Manual Integration Report

Data File: 1CD01034.D
Inj. Date and Time: 01-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0664B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

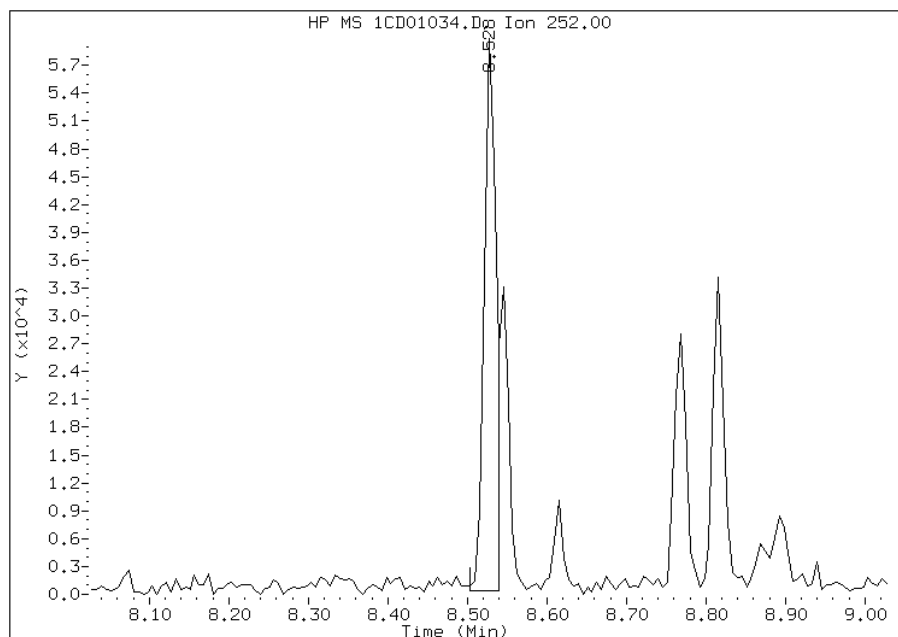
Processing Integration Results

RT: 8.53
Response: 84181
Amount: 2
Conc: 835



Manual Integration Results

RT: 8.53
Response: 62092
Amount: 2
Conc: 616



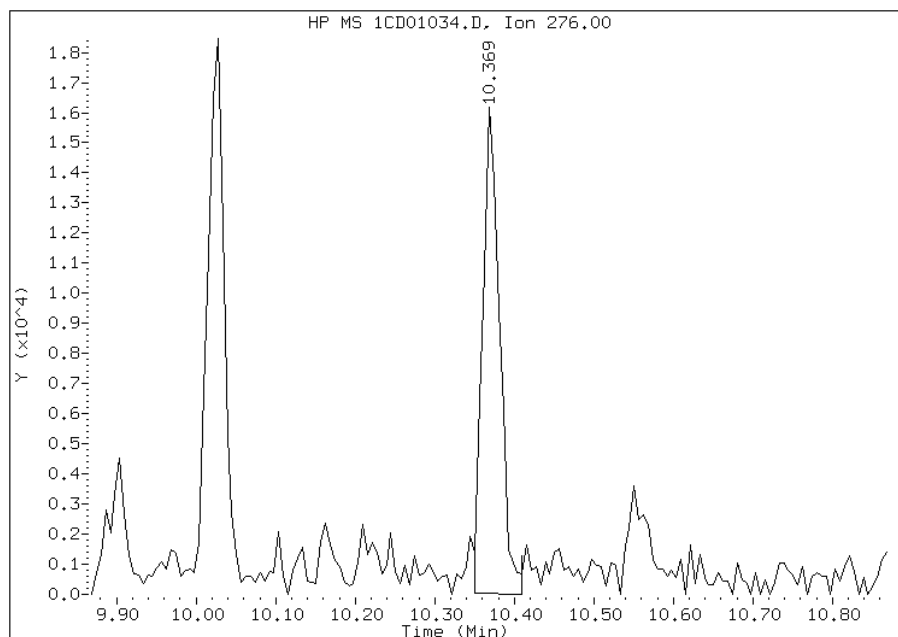
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01034.D
Inj. Date and Time: 01-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0664B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

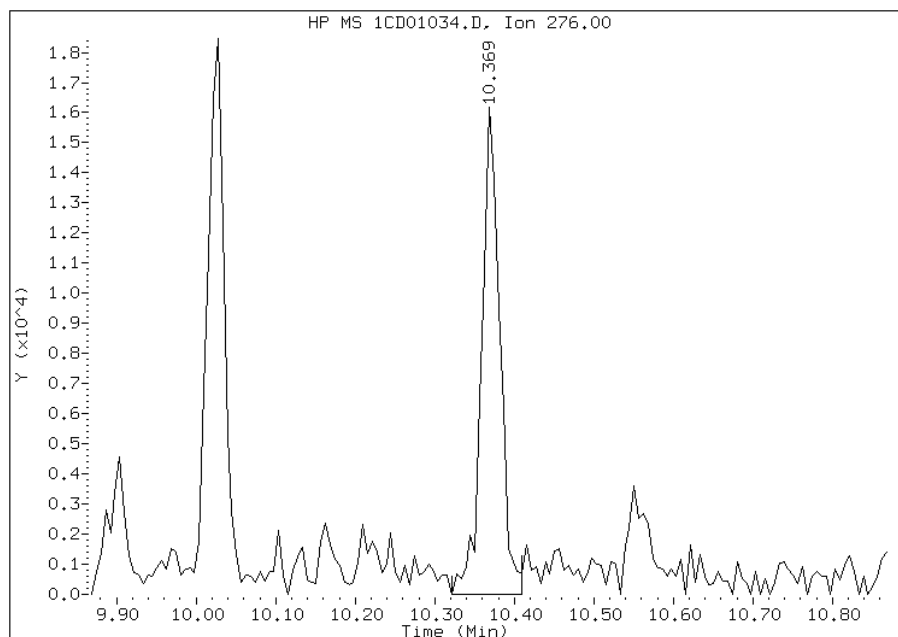
Processing Integration Results

RT: 10.37
Response: 24004
Amount: 1
Conc: 249



Manual Integration Results

RT: 10.37
Response: 25562
Amount: 1
Conc: 265



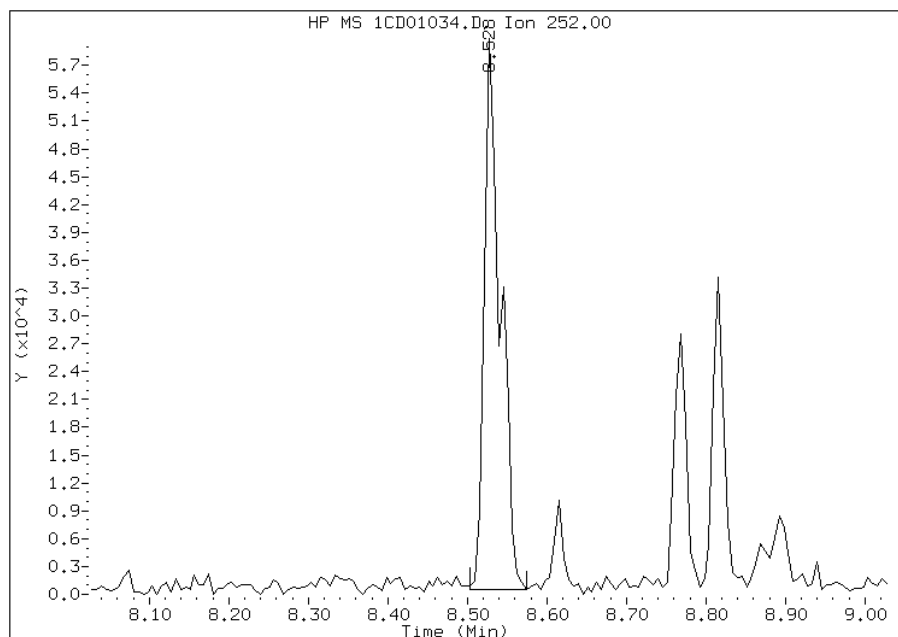
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01034.D
Inj. Date and Time: 01-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0664B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

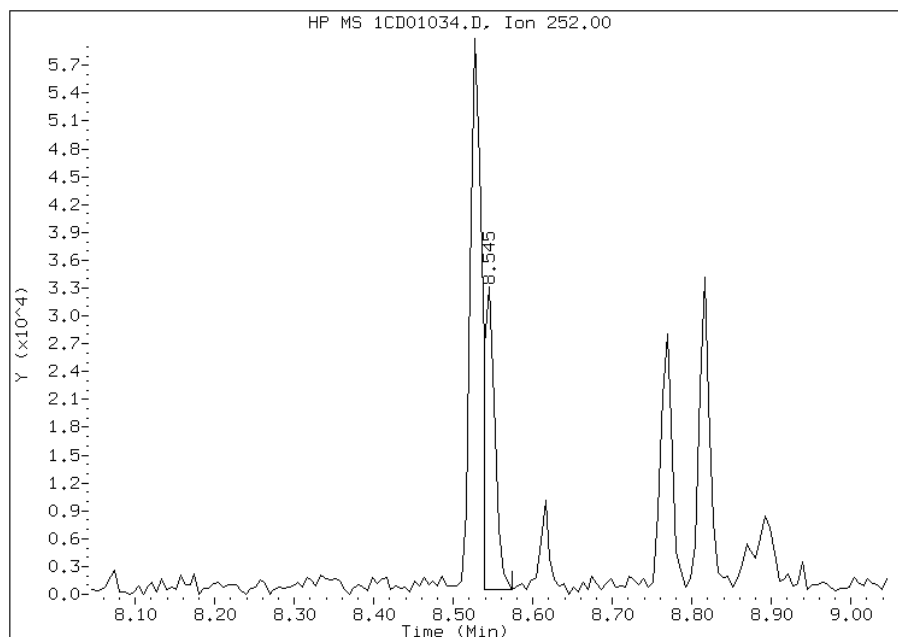
Processing Integration Results

RT: 8.53
Response: 83575
Amount: 2
Conc: 808



Manual Integration Results

RT: 8.55
Response: 31210
Amount: 1
Conc: 302



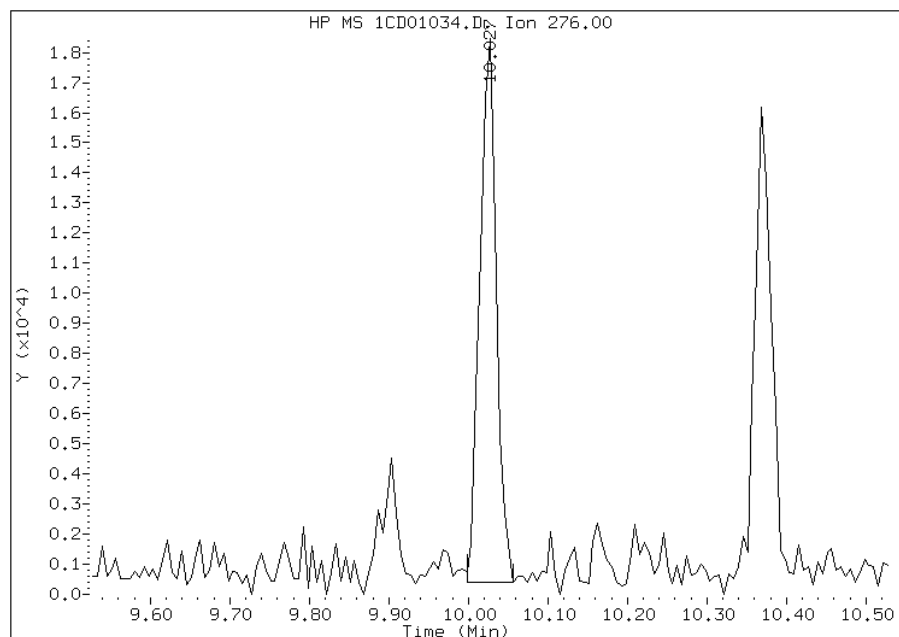
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01034.D
Inj. Date and Time: 01-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0664B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

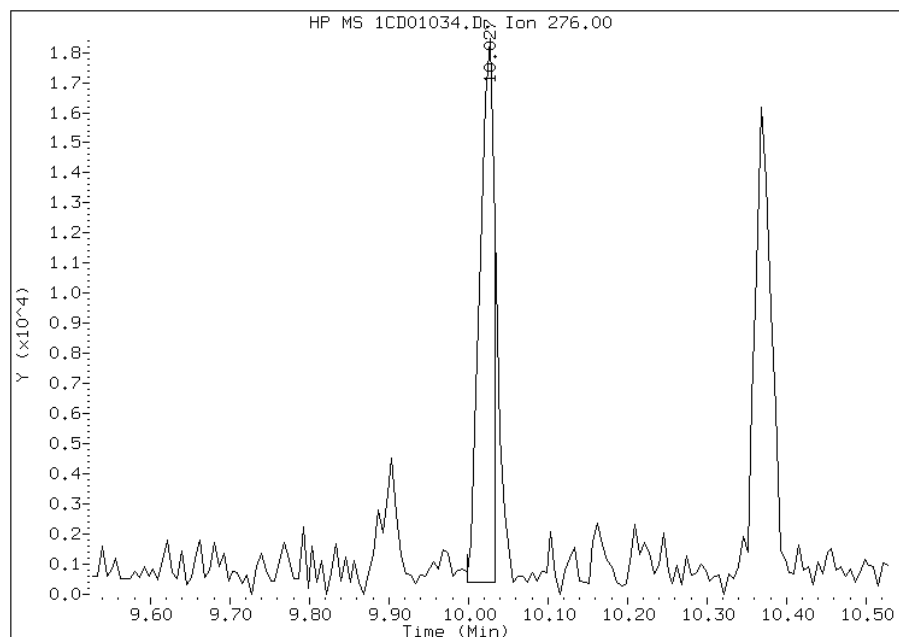
Processing Integration Results

RT: 10.03
Response: 25798
Amount: 1
Conc: 280



Manual Integration Results

RT: 10.03
Response: 22916
Amount: 1
Conc: 249



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>HP0084A-CS-SP</u>	Lab Sample ID: <u>680-88632-47</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD01035.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 08:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>14.90(g)</u>	Date Analyzed: <u>04/01/2013 21:34</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>22.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135996</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	28	J	210	26
120-12-7	Anthracene	62		44	22
56-55-3	Benzo[a]anthracene	240		42	20
50-32-8	Benzo[a]pyrene	190		54	27
205-99-2	Benzo[b]fluoranthene	400		64	32
191-24-2	Benzo[g,h,i]perylene	190		100	23
207-08-9	Benzo[k]fluoranthene	94		42	19
218-01-9	Chrysene	310		47	23
53-70-3	Dibenz(a,h)anthracene	59	J	100	21
206-44-0	Fluoranthene	250		100	21
86-73-7	Fluorene	24	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	130		100	37
90-12-0	1-Methylnaphthalene	320		210	23
91-57-6	2-Methylnaphthalene	460		210	37
91-20-3	Naphthalene	280		210	23
85-01-8	Phenanthrene	420		42	20
129-00-0	Pyrene	280		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01035.D
Lab Smp Id: 680-88632-A-47-A Client Smp ID: HP0084A-CS-SP
Inj Date : 01-APR-2013 21:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-47-a
Misc Info : 680-88632-A-47-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 35
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	22.811	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.716	(1.000)		723303	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)		565160	40.0000	
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)		1017811	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)		26430	1.71990	598.1646
* 18 Chrysene-d12	240		7.692	7.698	(1.000)		1074950	40.0000	
* 23 Perylene-d12	264		8.874	8.886	(1.000)		1005404	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)		14905	0.79154	275.2917
3 2-Methylnaphthalene	142		4.157	4.157	(1.117)		16766	1.33480	464.2332
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)		10678	0.93341	324.6328
5 Acenaphthylene	152		4.721	4.716	(0.983)		1847	0.08106	28.1921
9 Fluorene	166		5.139	5.145	(1.070)		1258	0.07024	24.4275(Q)
11 Phenanthrene	178		5.768	5.768	(1.003)		35263	1.19817	416.7147
12 Anthracene	178		5.804	5.804	(1.009)		5153	0.17903	62.2649
13 Carbazole	167		5.910	5.910	(1.028)		3770	0.14735	51.2456

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.604	6.604	(1.148)	23463	0.72798	253.1867
16 Pyrene	202	6.774	6.774	(0.881)	22867	0.79158	275.3051
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	21512	0.69337	241.1491
19 Chrysene	228	7.709	7.715	(1.002)	27885	0.89811	312.3557
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	30531	1.16198	404.1270(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	7285	0.27028	93.9993(QMH)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	13587	0.53237	185.1546
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	9197	0.38307	133.2288(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	3983	0.16961	58.9876(Q)
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	14073	0.56034	194.8822(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: 1CD01035.D

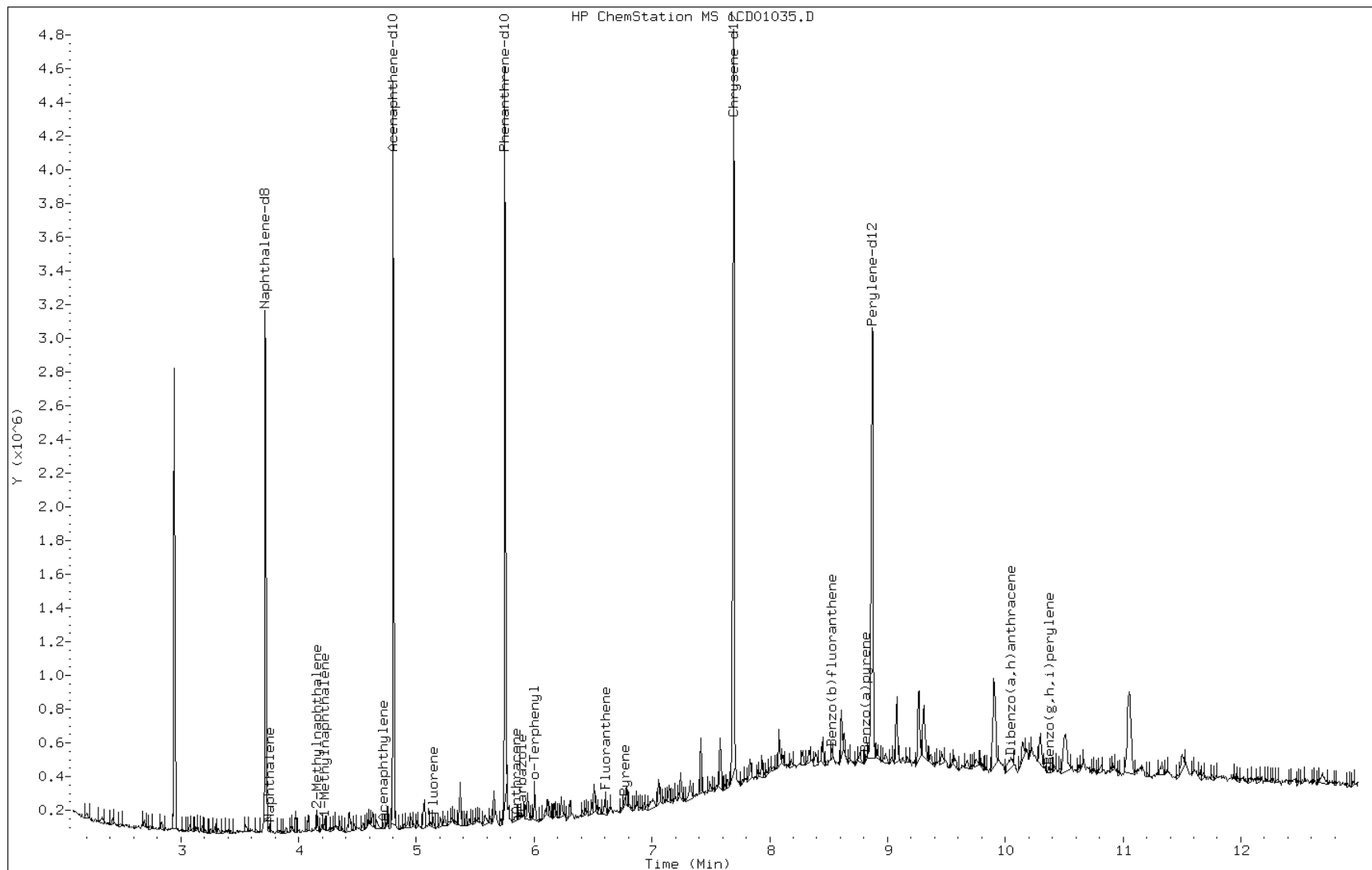
Date: 01-APR-2013 21:34

Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

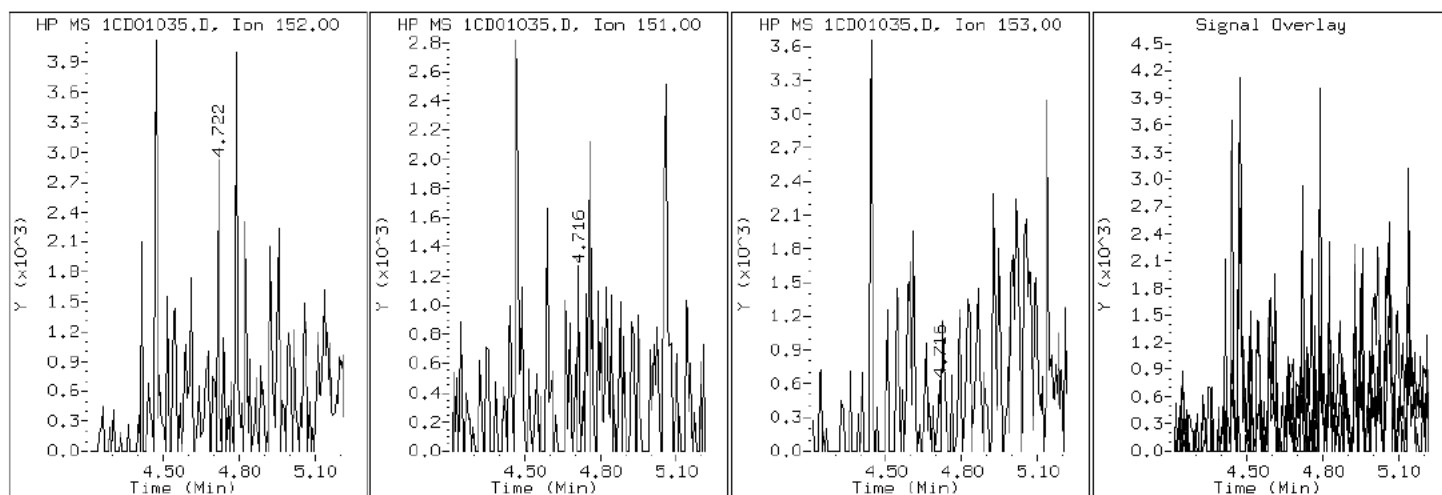
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

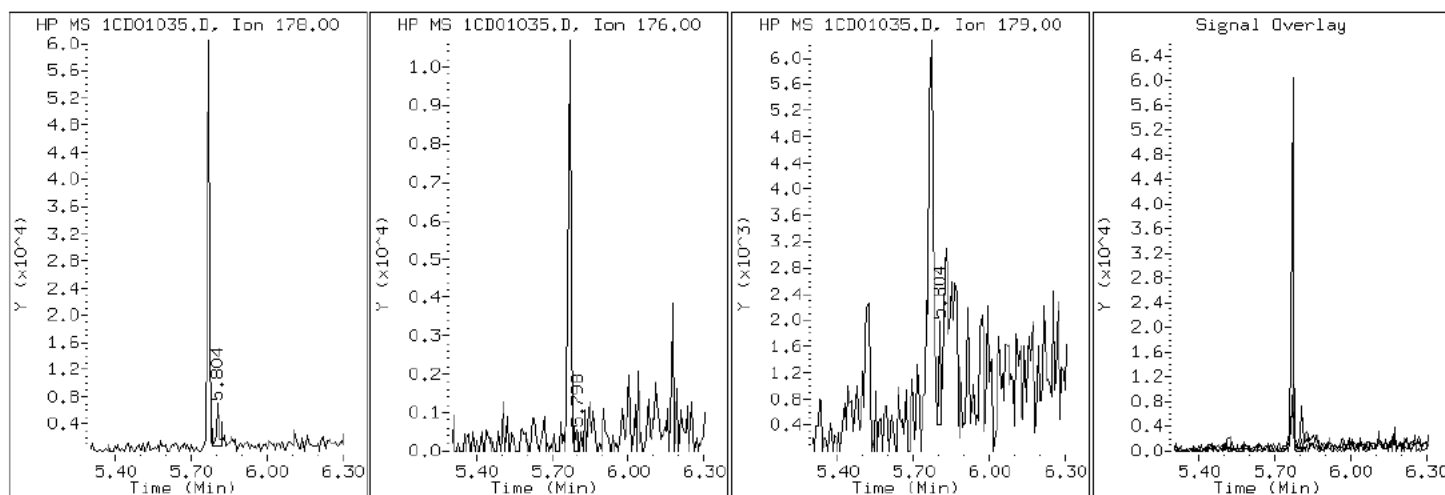
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

12 Anthracene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

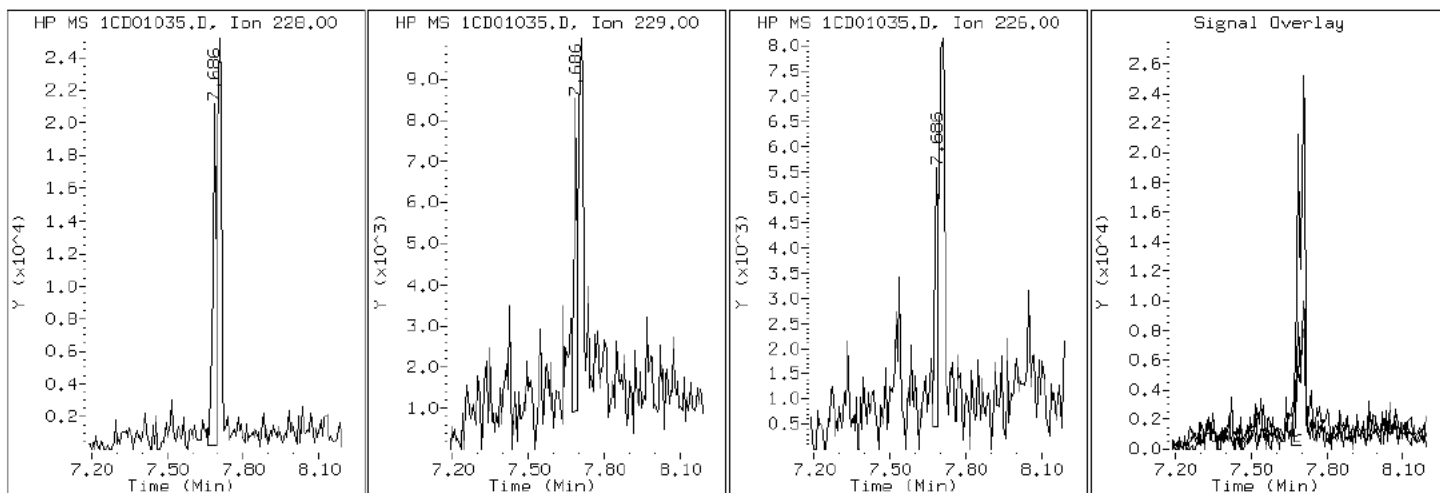
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

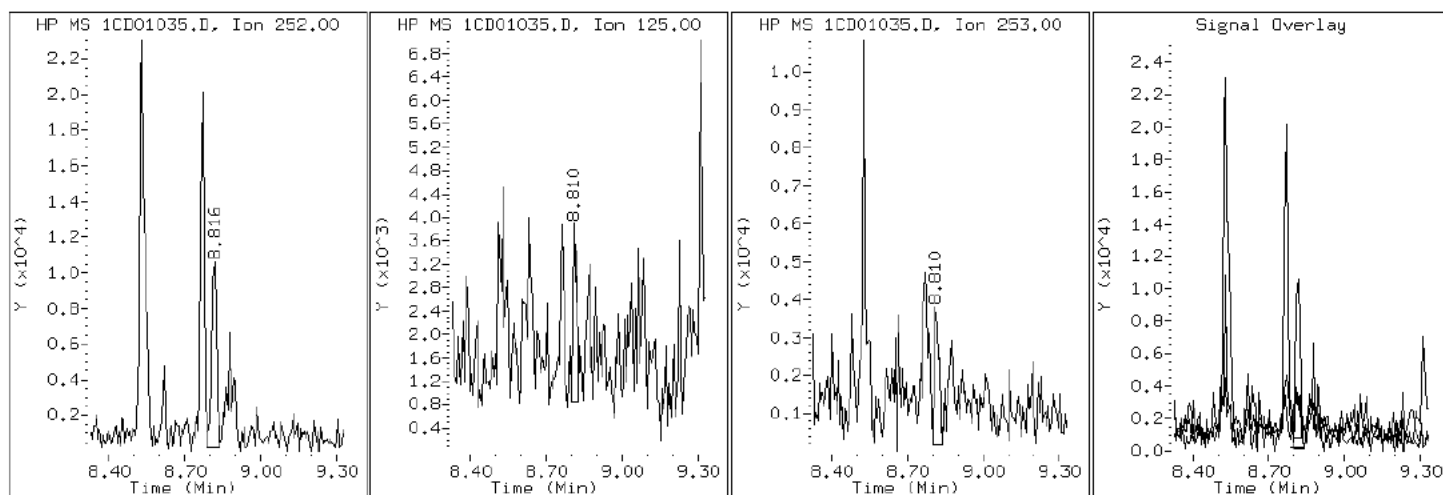
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

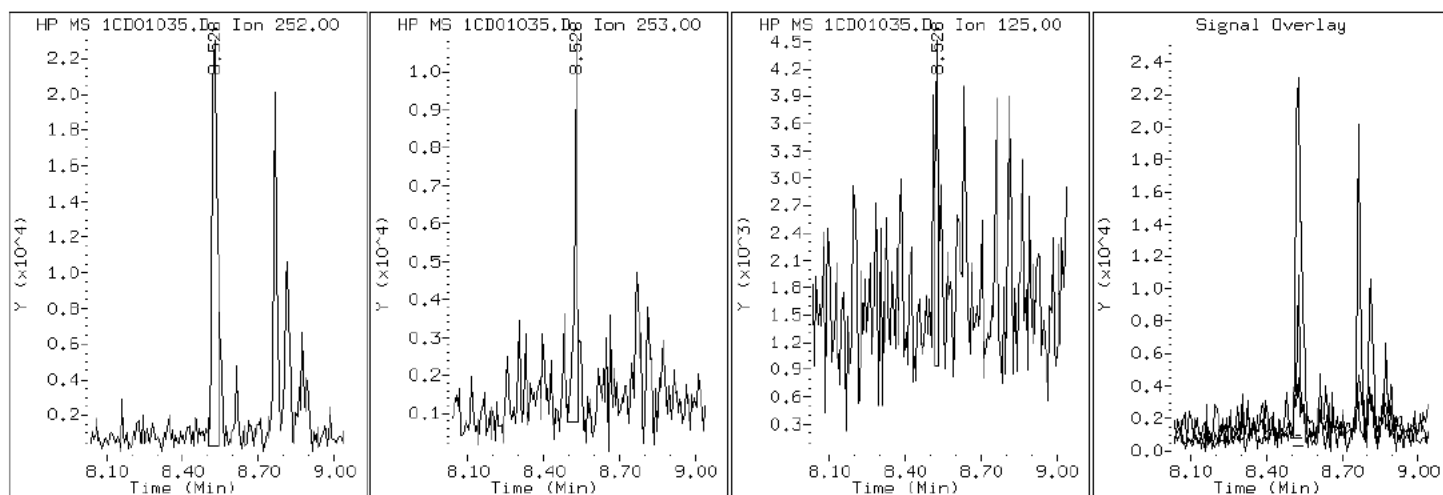
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

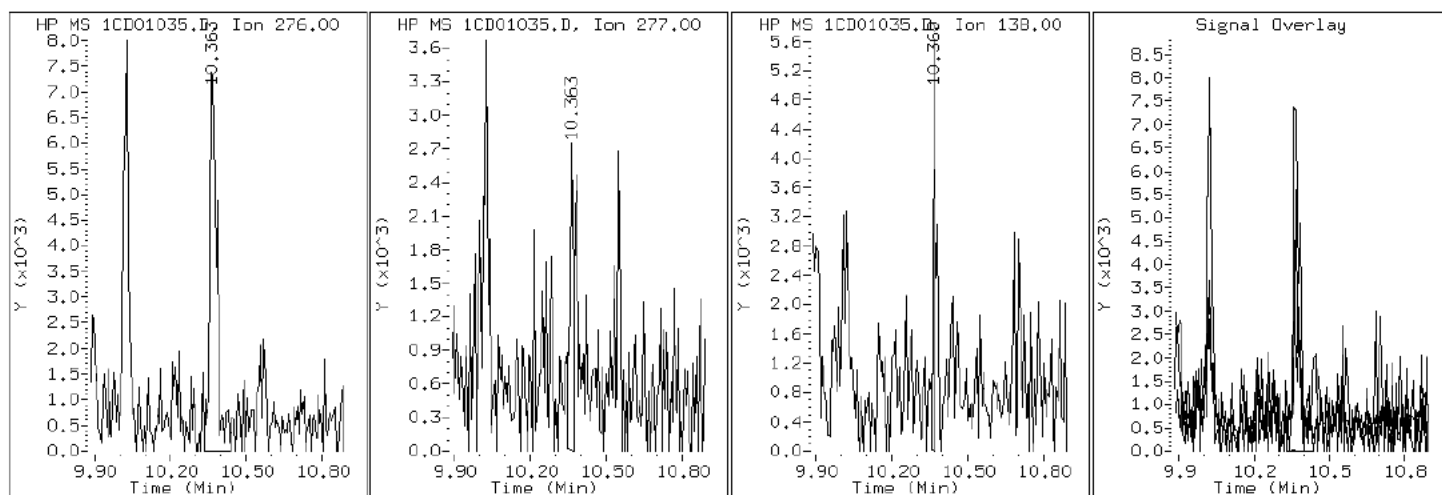
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

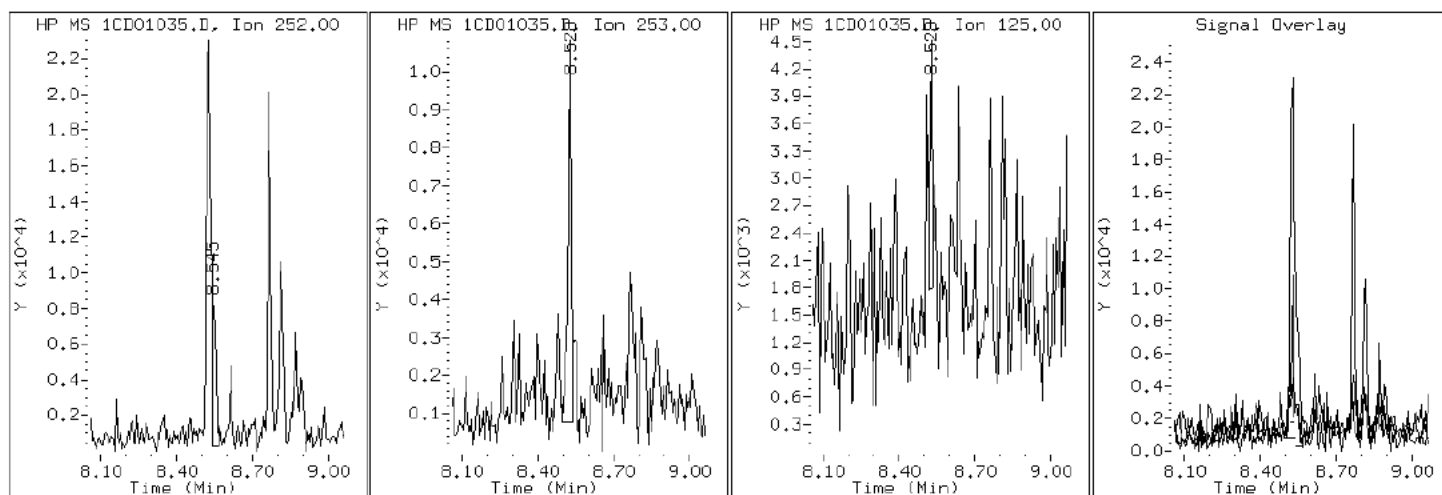
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

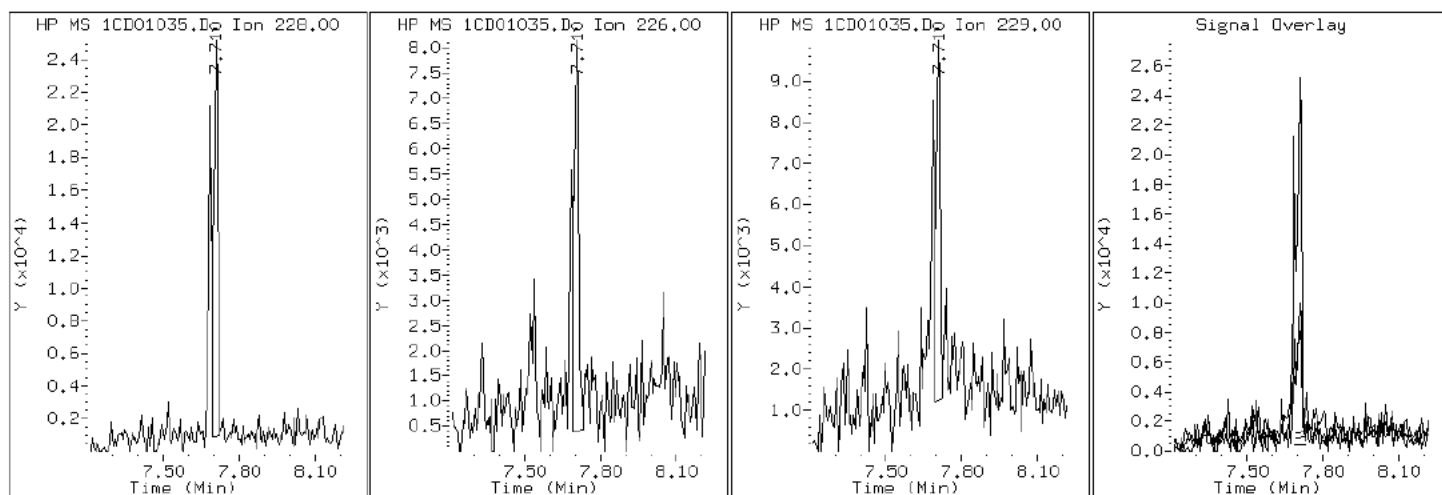
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

19 Chrysene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

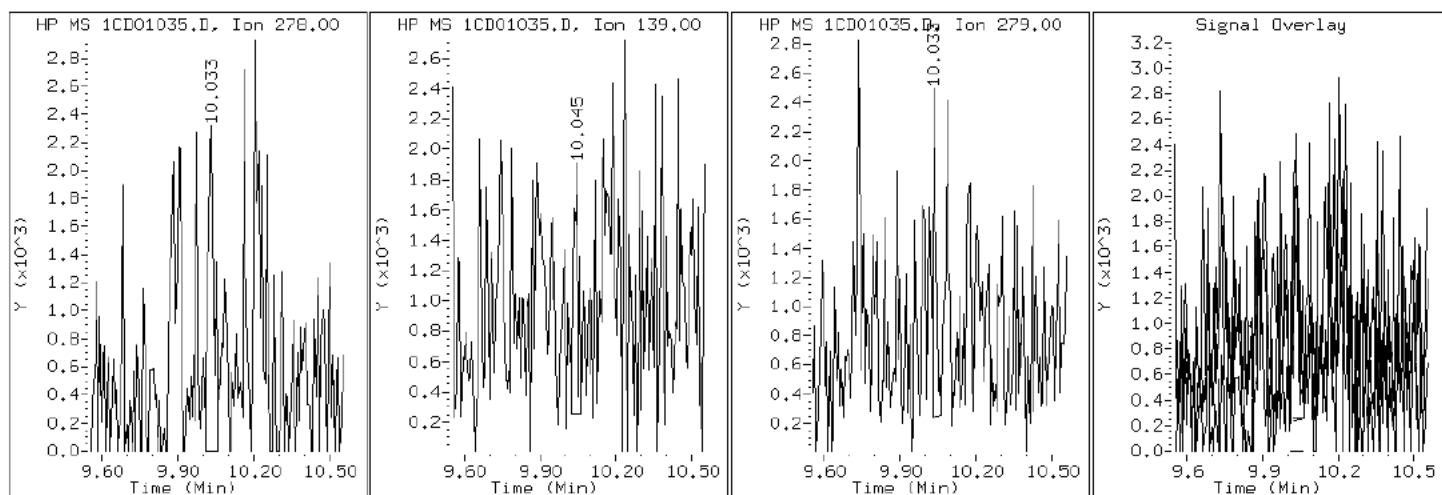
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

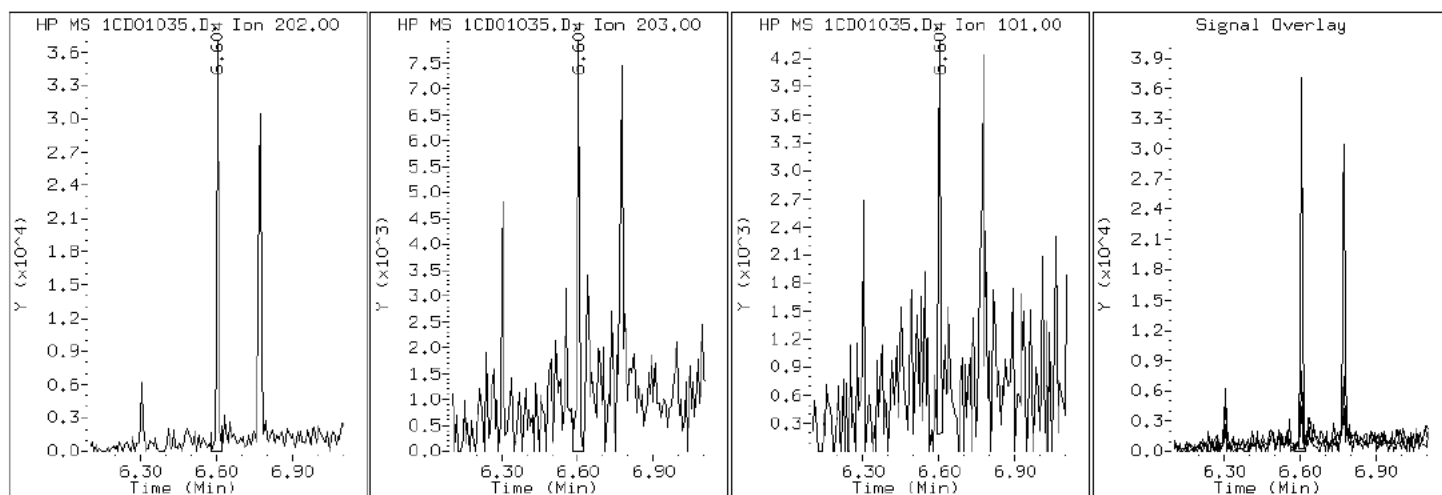
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

15 Fluoranthene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

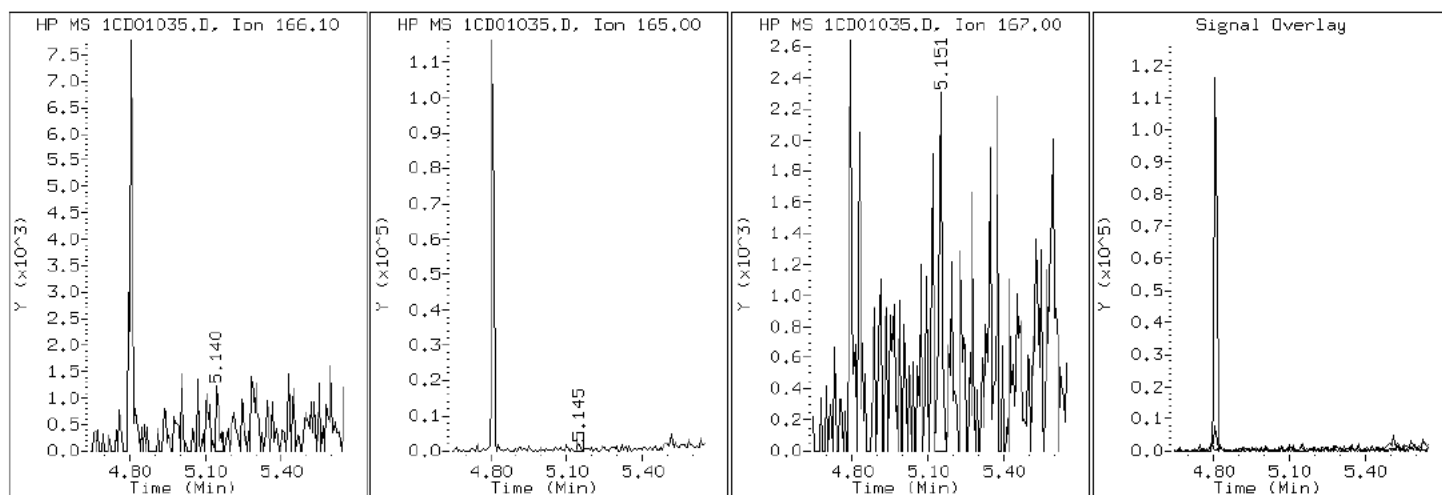
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

9 Fluorene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

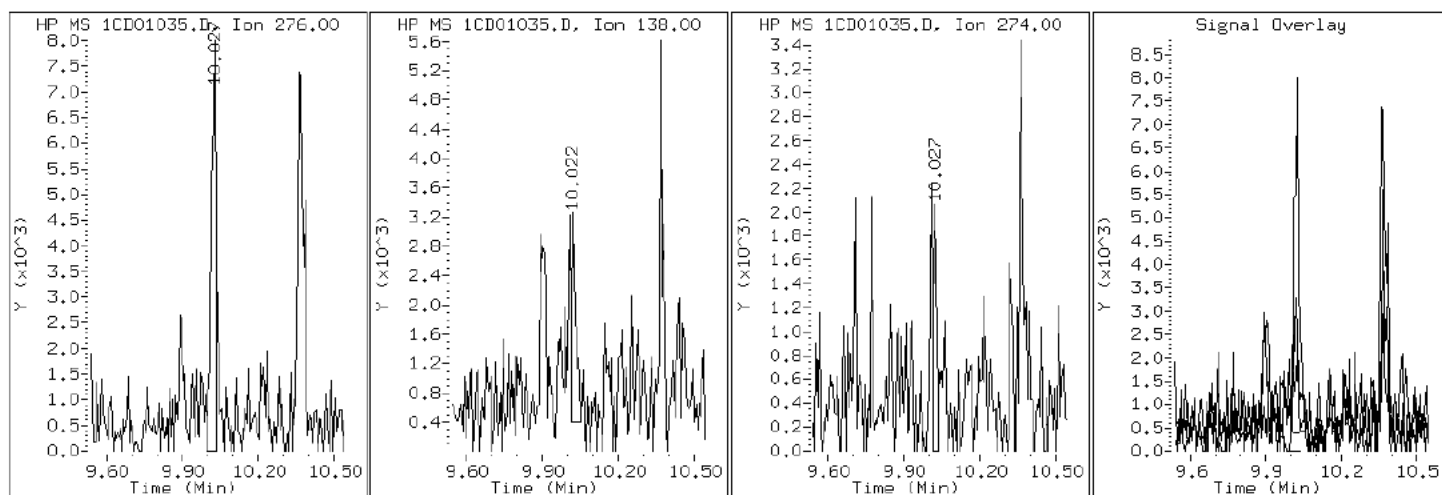
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

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



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

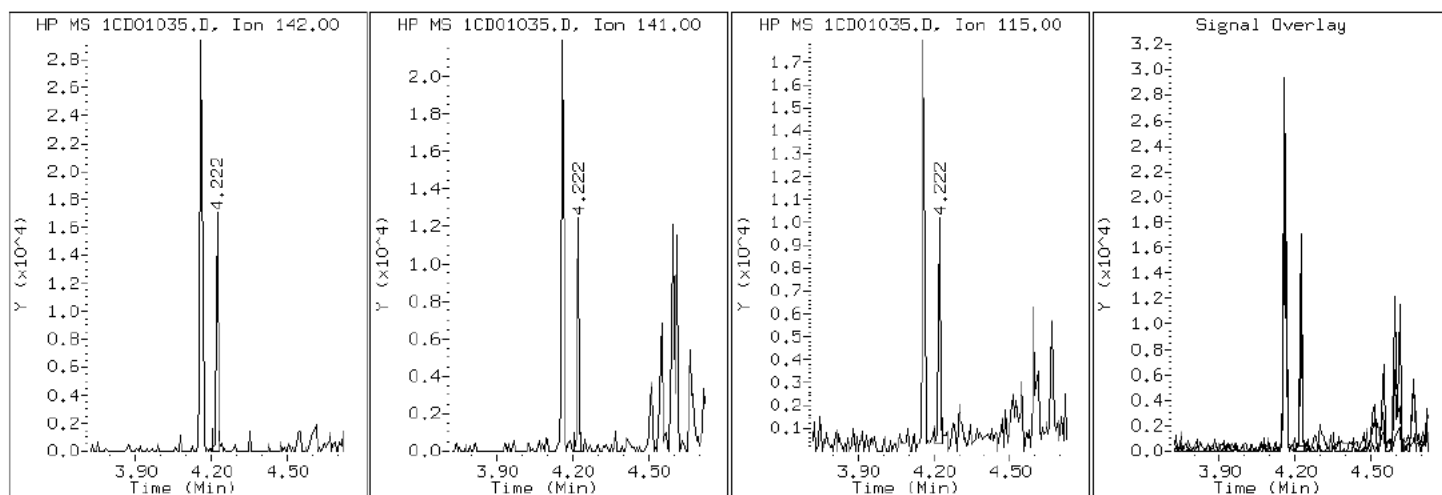
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

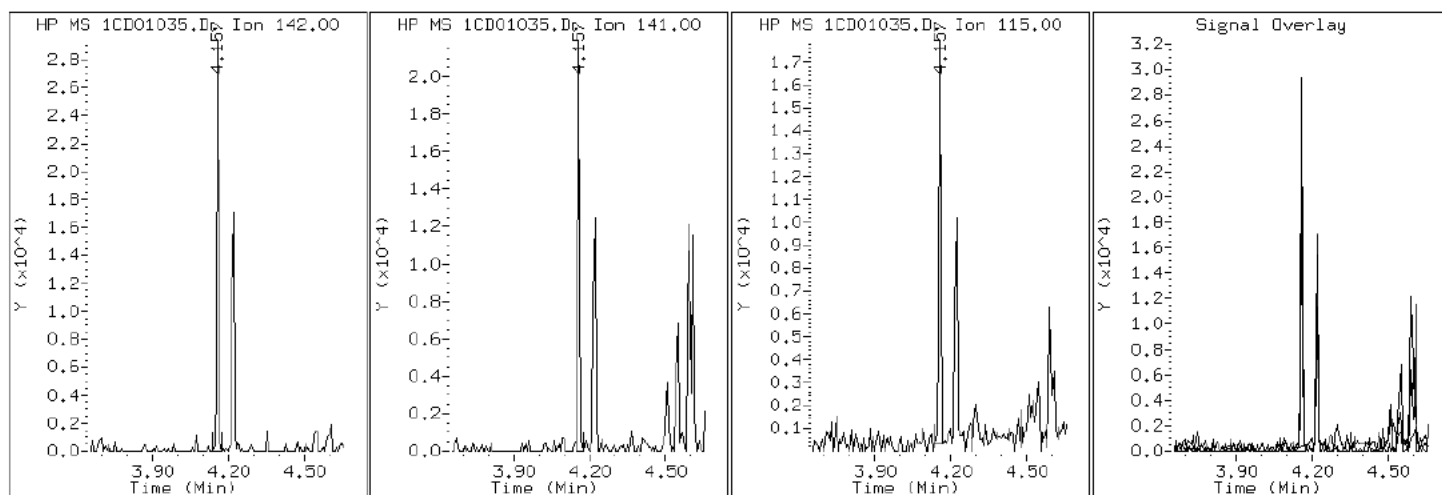
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

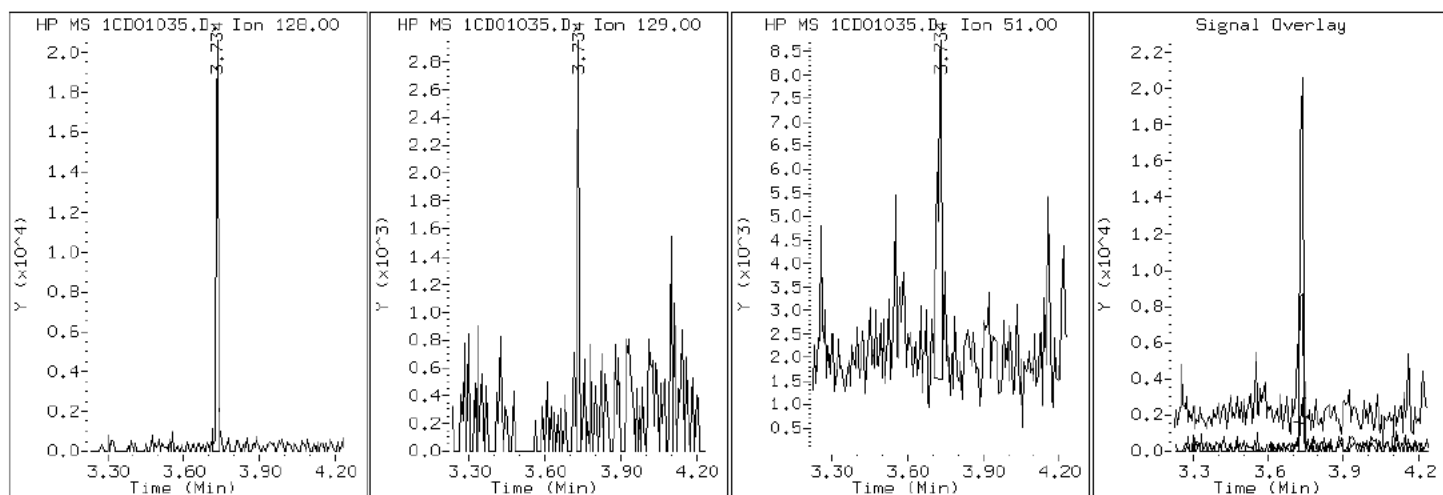
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

2 Naphthalene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

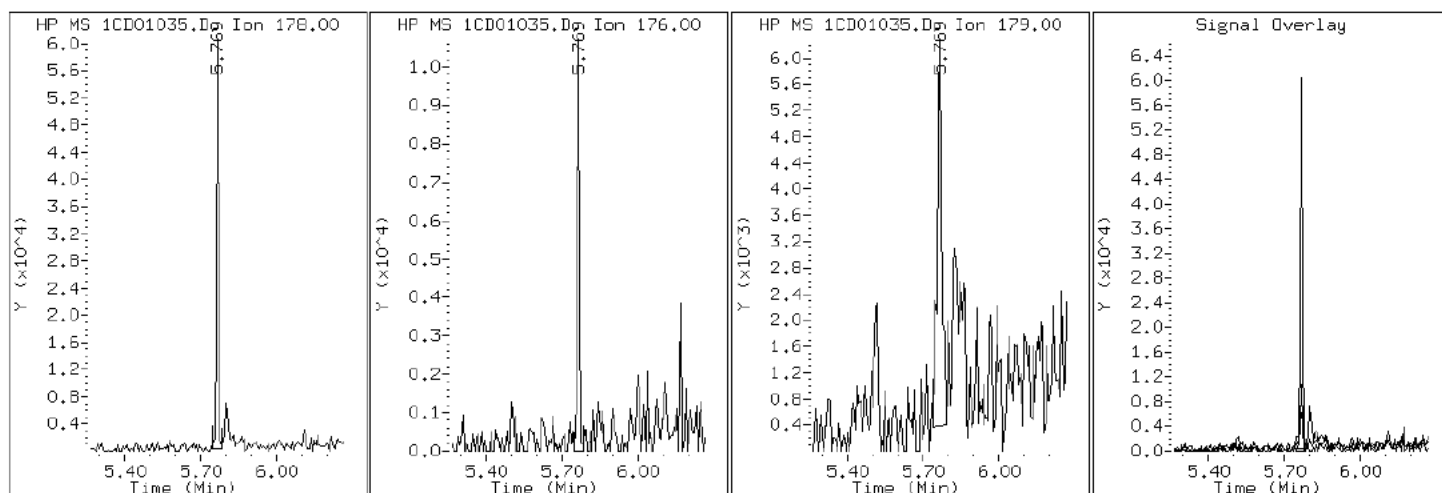
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

11 Phenanthrene



Data File: 1CD01035.D

Date: 01-APR-2013 21:34

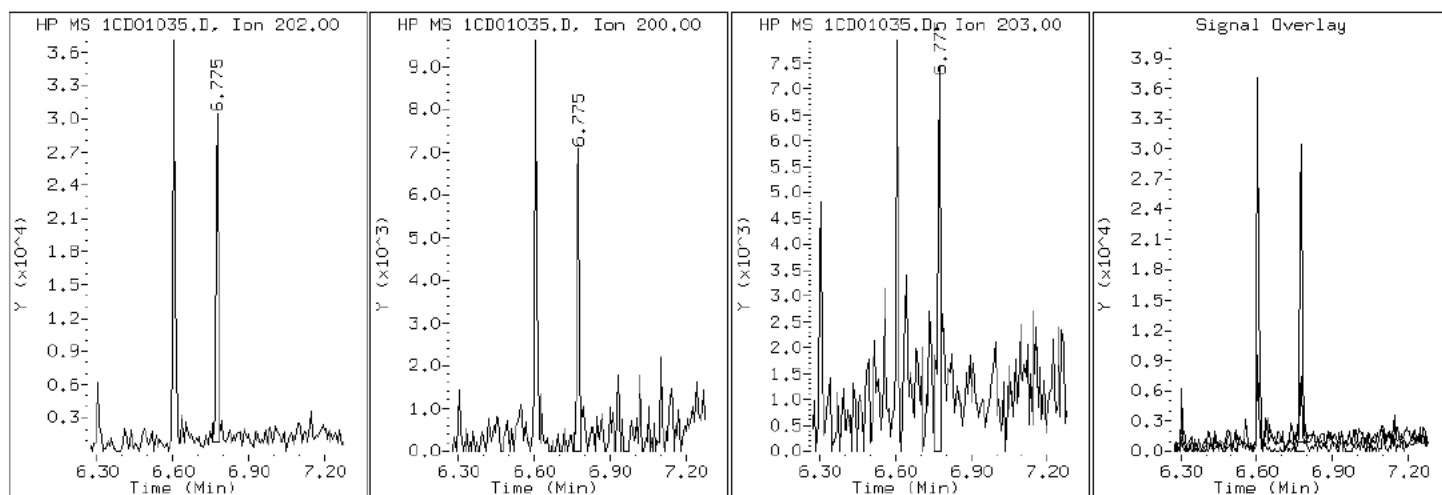
Client ID: HP0084A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-47-a

Operator: SCC

16 Pyrene

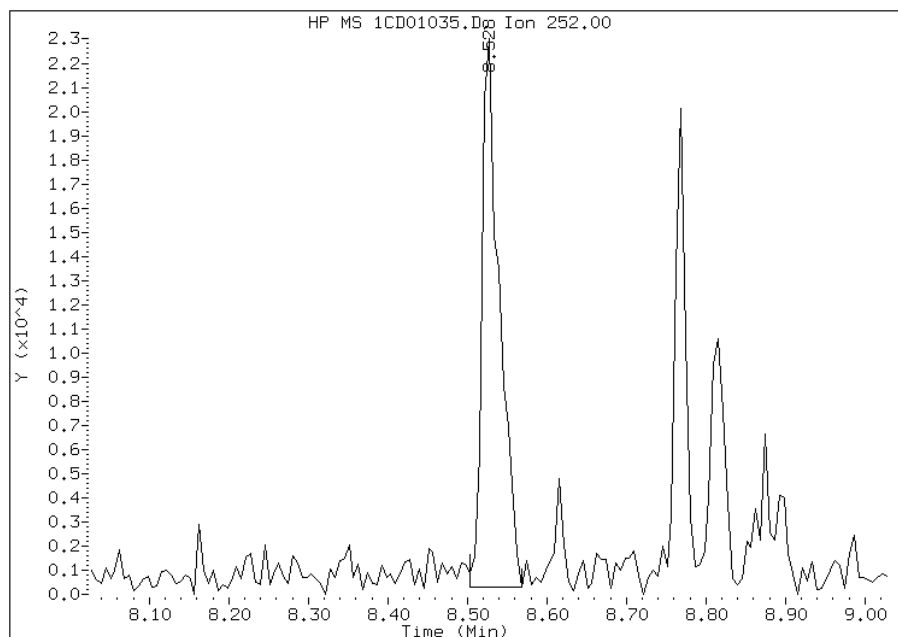


Manual Integration Report

Data File: 1CD01035.D
Inj. Date and Time: 01-APR-2013 21:34
Instrument ID: BSMC5973.i
Client ID: HP0084A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

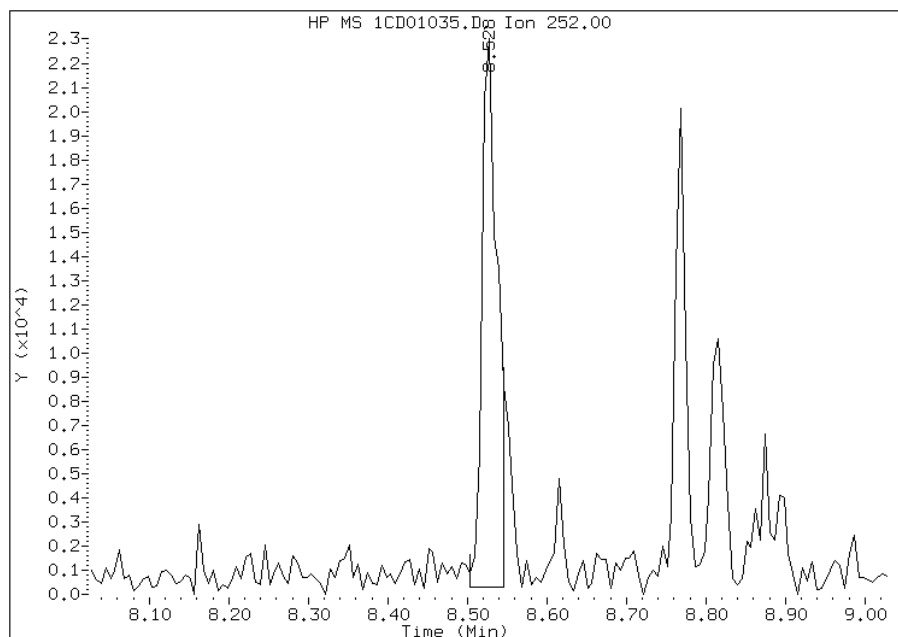
Processing Integration Results

RT: 8.53
Response: 34896
Amount: 1
Conc: 462



Manual Integration Results

RT: 8.53
Response: 30531
Amount: 1
Conc: 404



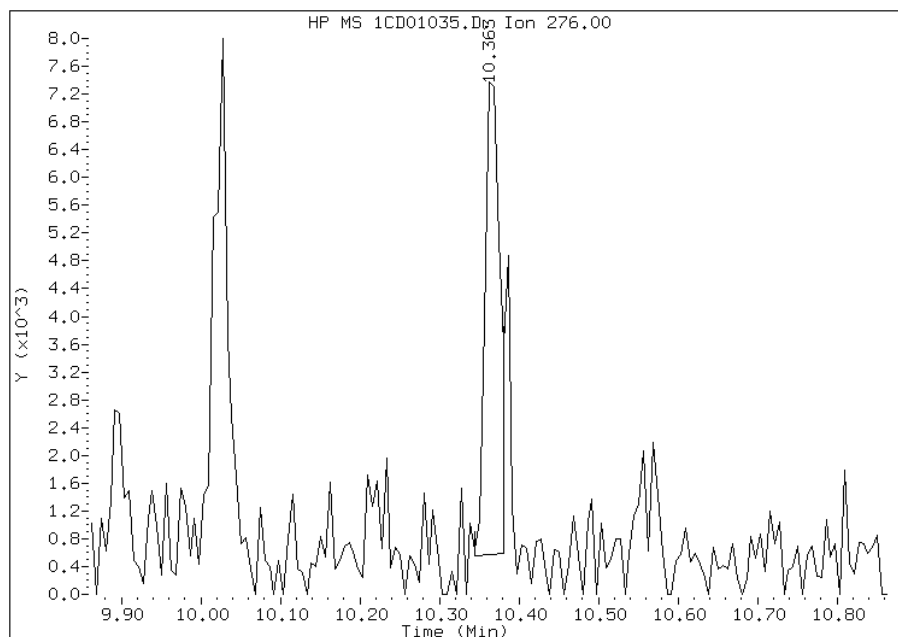
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD01035.D
Inj. Date and Time: 01-APR-2013 21:34
Instrument ID: BSMC5973.i
Client ID: HP0084A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

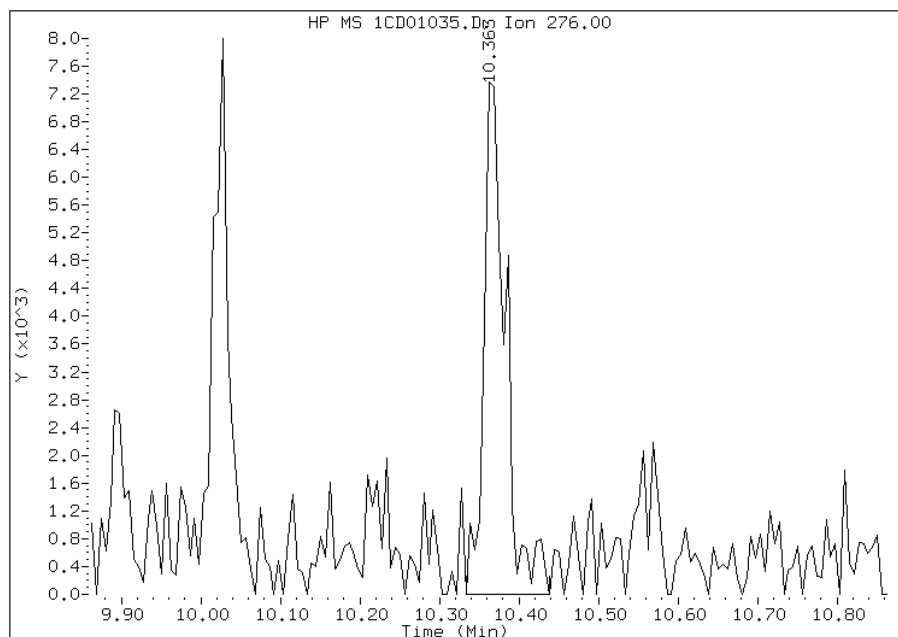
Processing Integration Results

RT: 10.36
Response: 8826
Amount: 0
Conc: 122



Manual Integration Results

RT: 10.36
Response: 14073
Amount: 1
Conc: 195



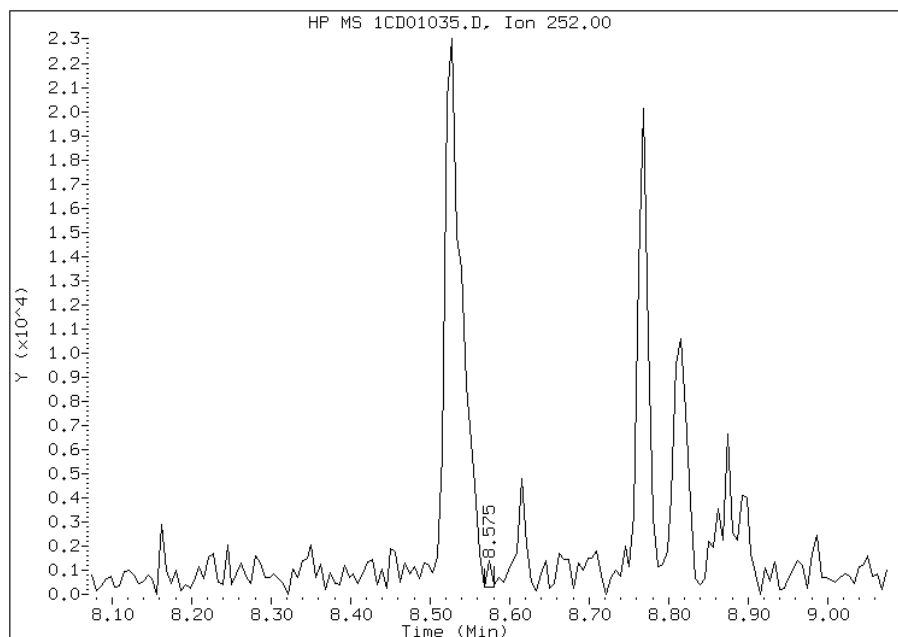
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01035.D
Inj. Date and Time: 01-APR-2013 21:34
Instrument ID: BSMC5973.i
Client ID: HP0084A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

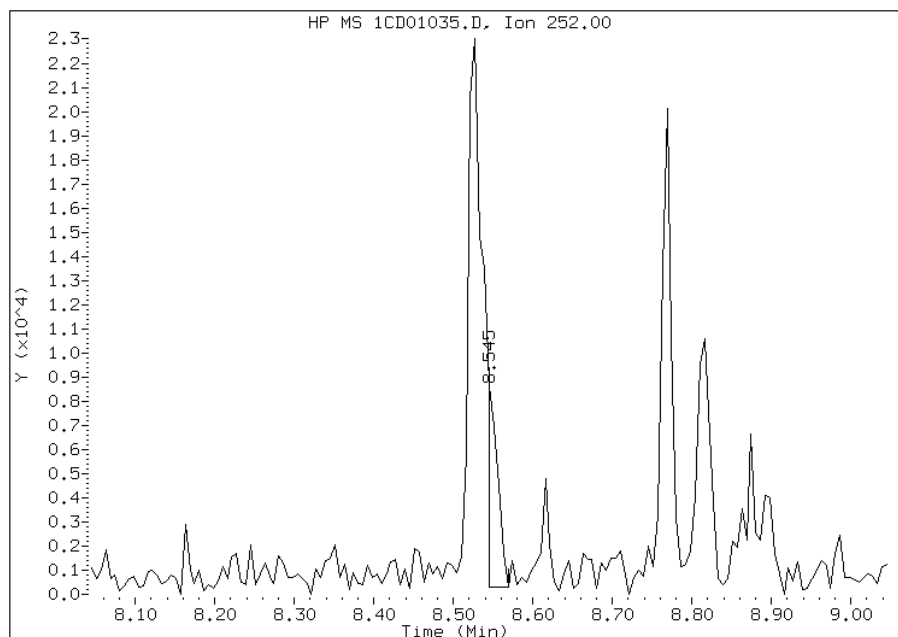
Processing Integration Results

RT: 8.57
Response: 431
Amount: 0
Conc: 6



Manual Integration Results

RT: 8.55
Response: 7285
Amount: 0
Conc: 94



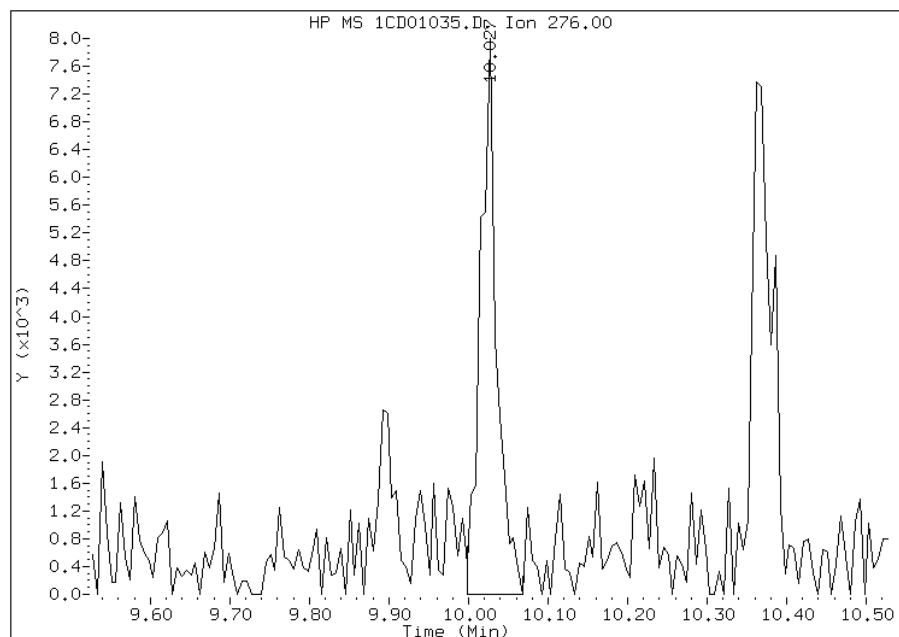
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD01035.D
Inj. Date and Time: 01-APR-2013 21:34
Instrument ID: BSMC5973.i
Client ID: HP0084A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

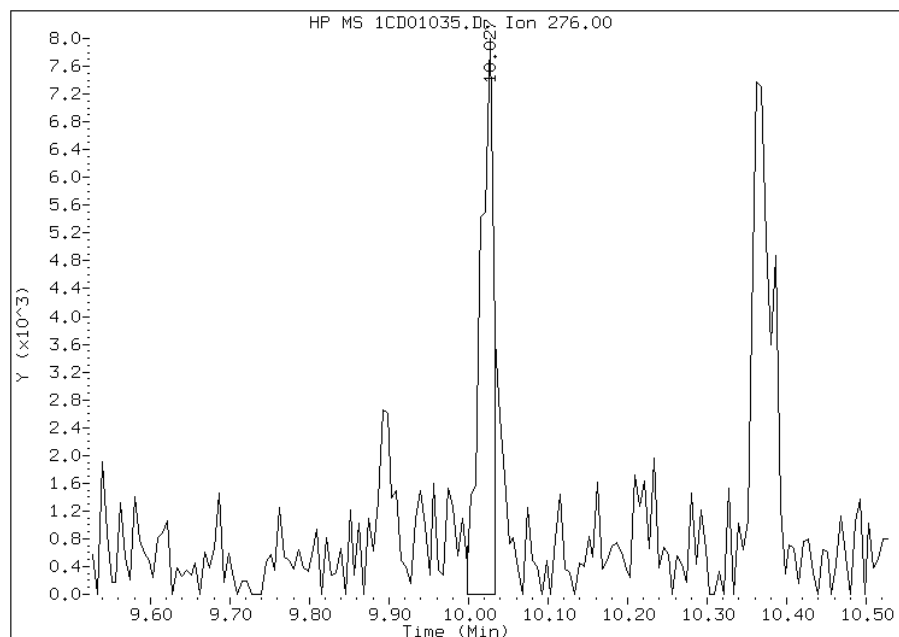
Processing Integration Results

RT: 10.03
Response: 11370
Amount: 0
Conc: 165



Manual Integration Results

RT: 10.03
Response: 9197
Amount: 0
Conc: 133



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 10:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>HP0084B-CS-SP</u>	Lab Sample ID: <u>680-88632-48</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD03006.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 08:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>15.22(g)</u>	Date Analyzed: <u>04/03/2013 12:40</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>25.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136081</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	28	J	210	26
120-12-7	Anthracene	68		44	22
56-55-3	Benzo[a]anthracene	380		42	21
50-32-8	Benzo[a]pyrene	200		55	28
205-99-2	Benzo[b]fluoranthene	520		65	32
191-24-2	Benzo[g,h,i]perylene	280		110	23
207-08-9	Benzo[k]fluoranthene	100		42	19
218-01-9	Chrysene	520		48	24
53-70-3	Dibenz(a,h)anthracene	120		110	22
206-44-0	Fluoranthene	470		110	21
86-73-7	Fluorene	25	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	160		110	38
90-12-0	1-Methylnaphthalene	330		210	23
91-57-6	2-Methylnaphthalene	390		210	38
91-20-3	Naphthalene	290		210	23
85-01-8	Phenanthrene	590		42	21
129-00-0	Pyrene	420		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03006.D
Lab Smp Id: 680-88632-A-48-A Client Smp ID: HP0084B-CS-SP
Inj Date : 03-APR-2013 12:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-A-48-A
Misc Info : 680-88632-A-48-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 6
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	25.551	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.710	3.704	(1.000)		543325	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)		399346	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)		725469	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)		18947	2.32544	820.9003
* 18 Chrysene-d12	240		7.674	7.680	(1.000)		847208	40.0000	
* 23 Perylene-d12	264		8.851	8.851	(1.000)		876039	40.0000	
2 Naphthalene	128		3.722	3.722	(1.003)		11480	0.82263	290.3960
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)		10432	1.09816	387.6594
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)		7904	0.92469	326.4234
5 Acenaphthylene	152		4.710	4.704	(0.983)		1334	0.08071	28.4918(Q)
9 Fluorene	166		5.139	5.133	(1.072)		953	0.06983	24.6517(Q)
11 Phenanthrene	178		5.757	5.757	(1.003)		35515	1.68086	593.3579
12 Anthracene	178		5.786	5.792	(1.008)		4153	0.19390	68.4470
13 Carbazole	167		5.898	5.898	(1.028)		5537	0.30174	106.5161

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.586	6.592	(1.148)	30761	1.31827	465.3601
16 Pyrene	202	6.757	6.757	(0.880)	27777	1.18360	417.8187
17 Benzo(a)anthracene	228	7.668	7.668	(0.999)	22955	1.07074	377.9807
19 Chrysene	228	7.692	7.698	(1.002)	35415	1.46696	517.8493
20 Benzo(b)fluoranthene	252	8.504	8.509	(0.961)	36471	1.47260	519.8402(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	7059	0.29470	104.0298(QMH)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	12925	0.55432	195.6785
24 Indeno(1,2,3-cd)pyrene	276	9.986	9.992	(1.128)	10154	0.45849	161.8500(QM)
25 Dibenzo(a,h)anthracene	278	9.998	10.009	(1.130)	6837	0.33419	117.9723(M)
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	17780	0.78661	277.6794(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: 1CD03006.D

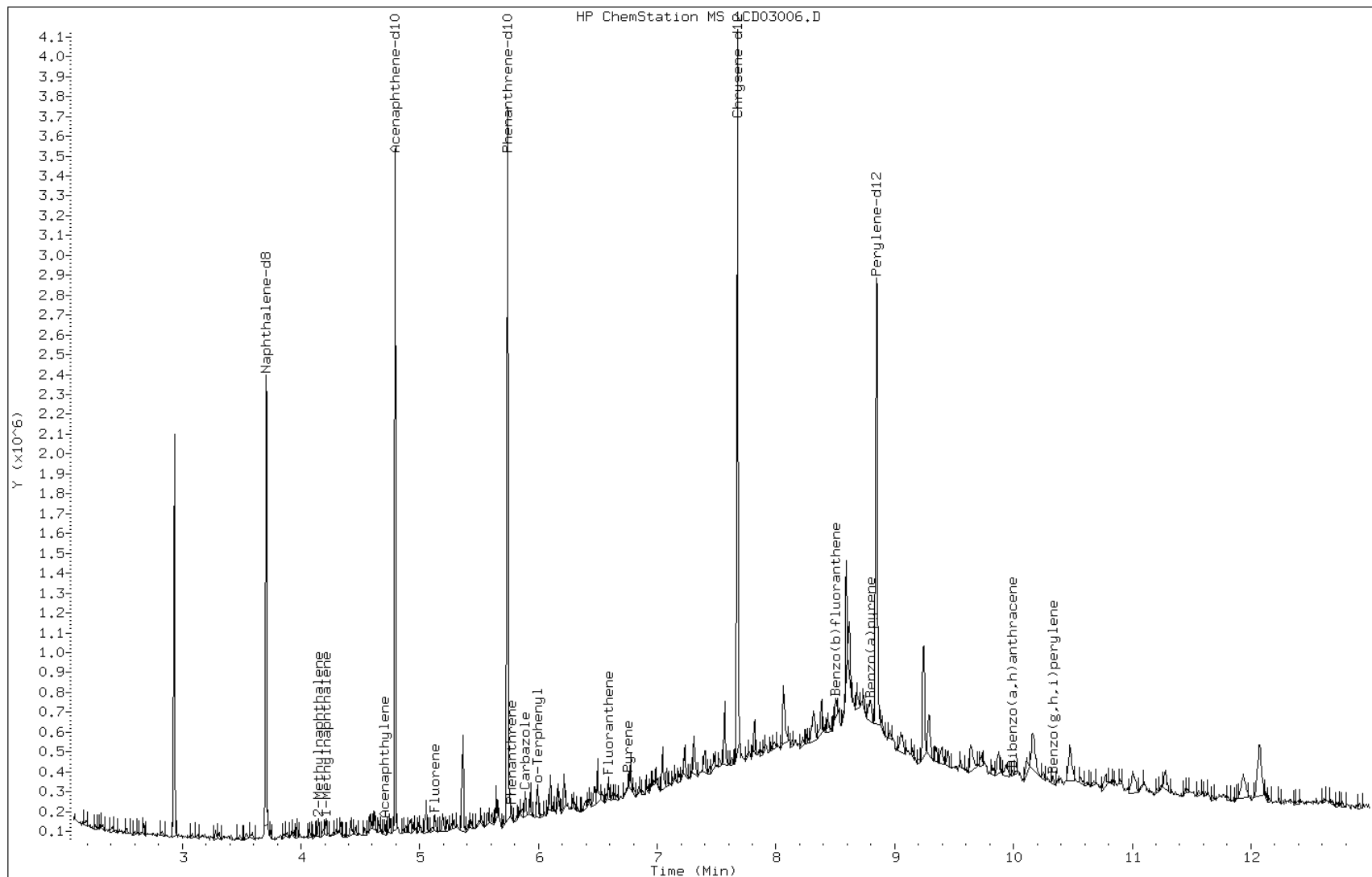
Date: 03-APR-2013 12:40

Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

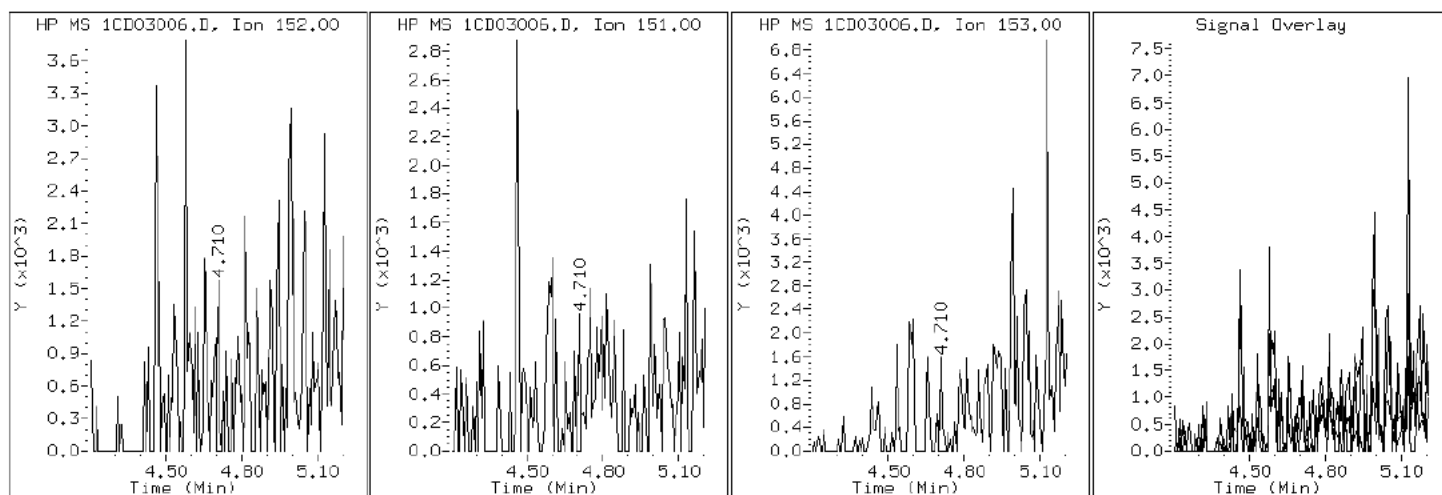
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

5 Acenaphthylene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

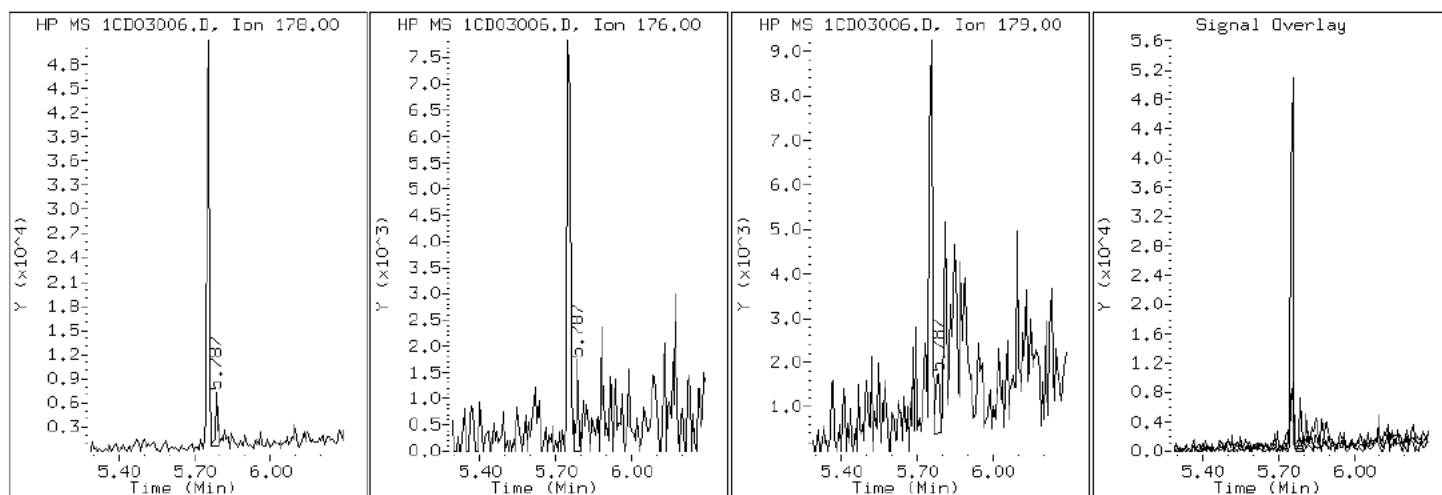
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

12 Anthracene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

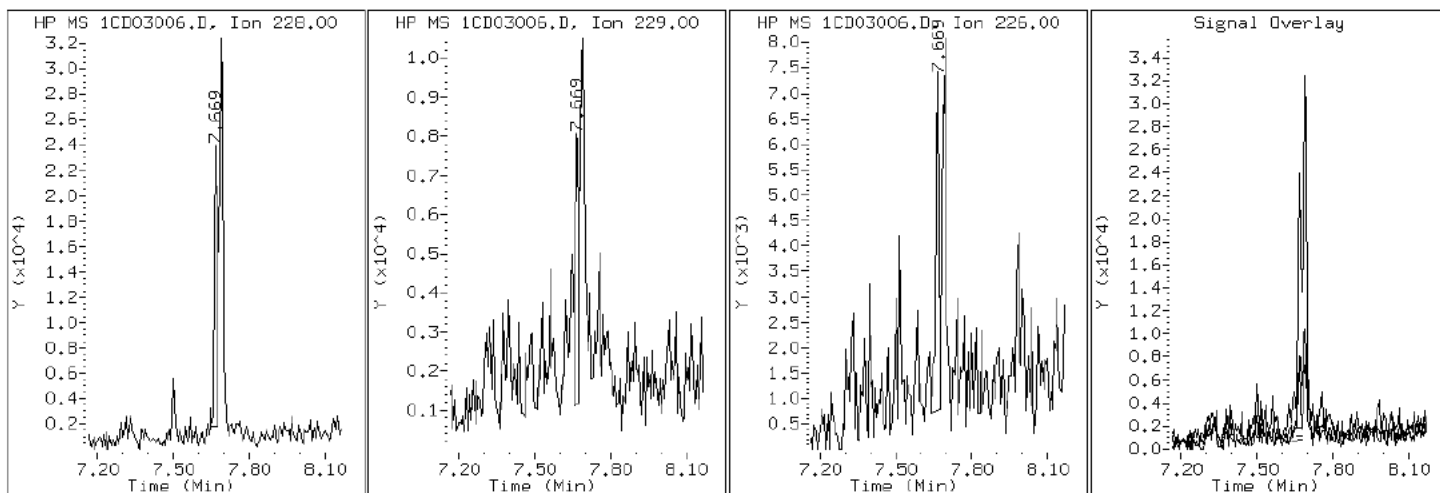
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

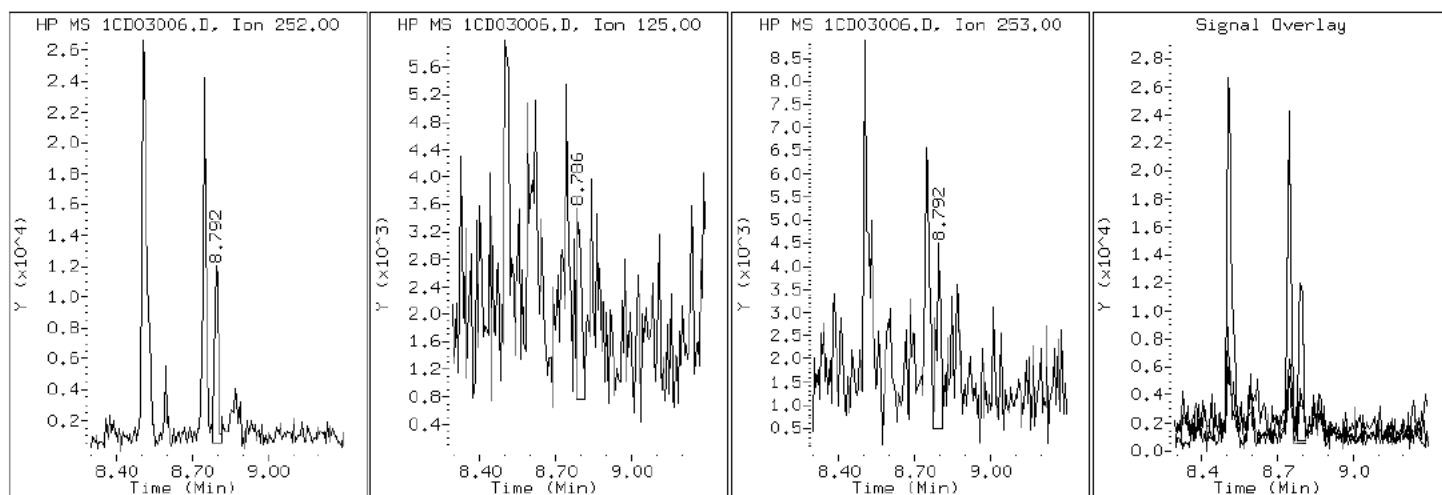
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

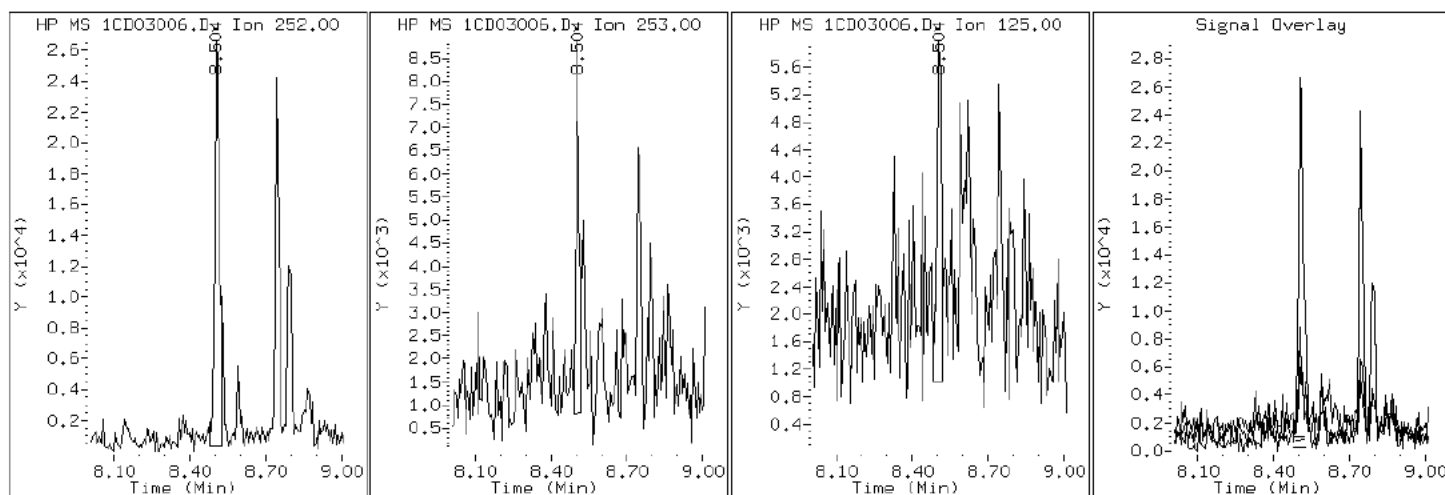
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

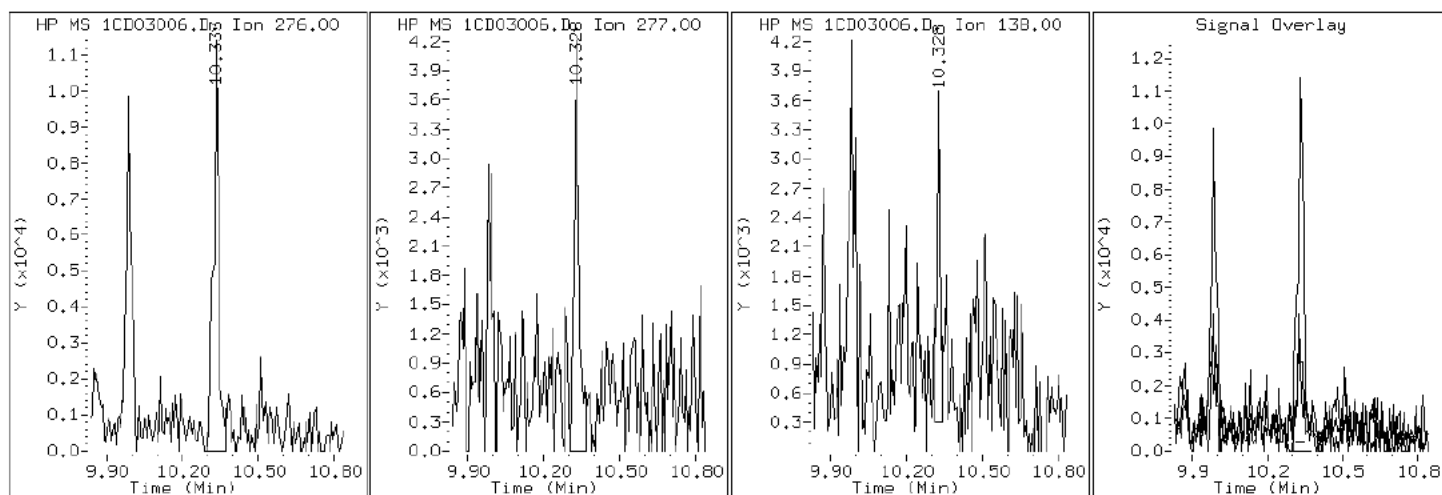
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

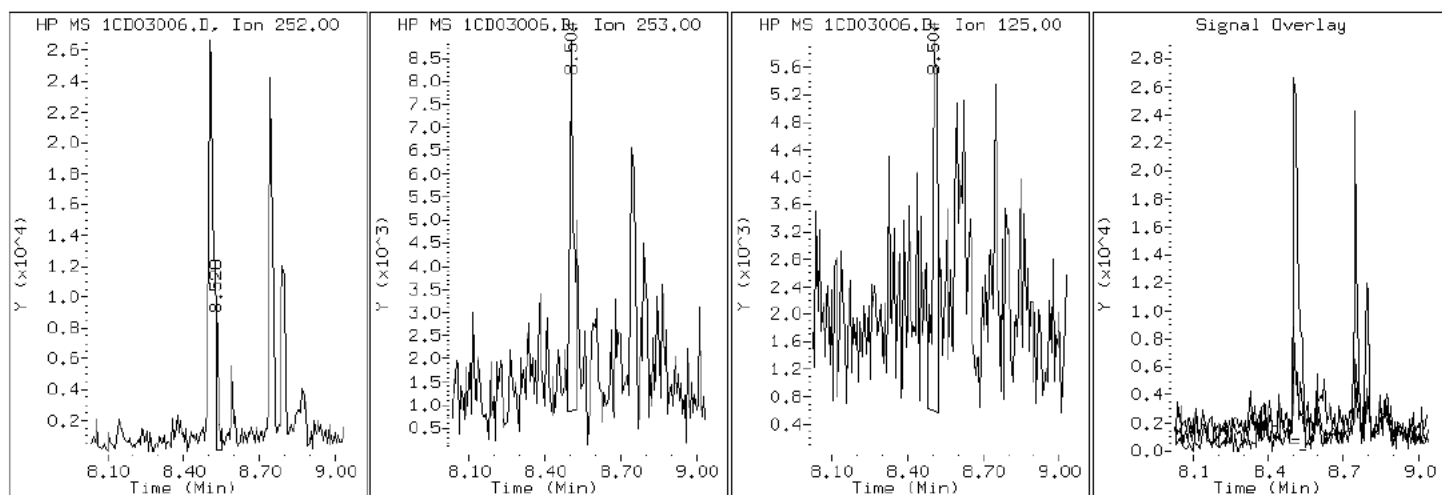
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

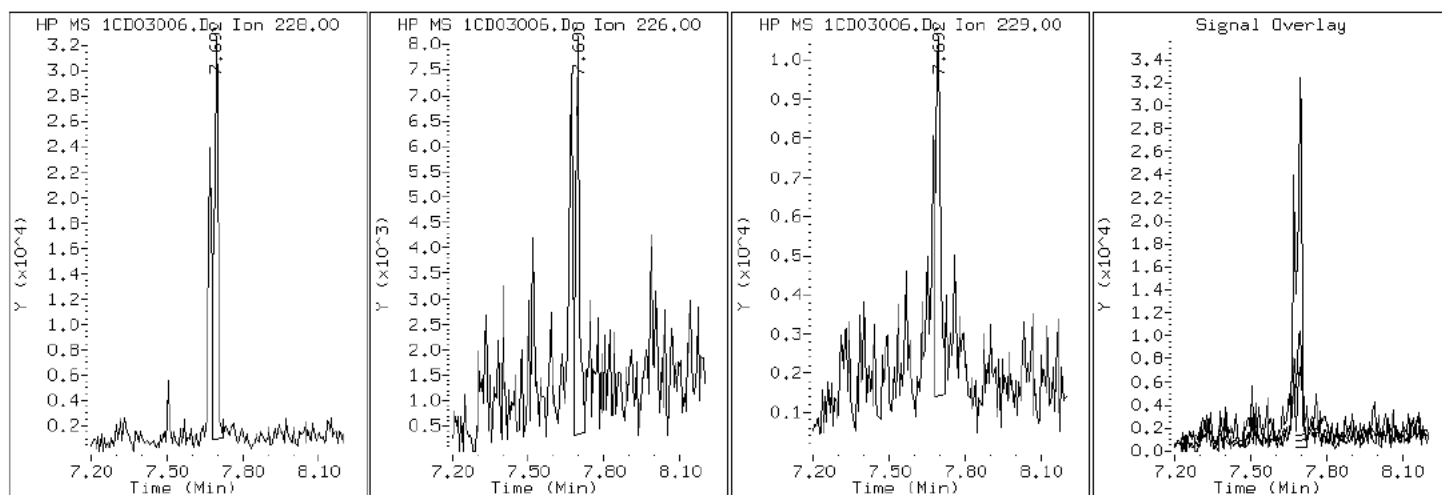
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

19 Chrysene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

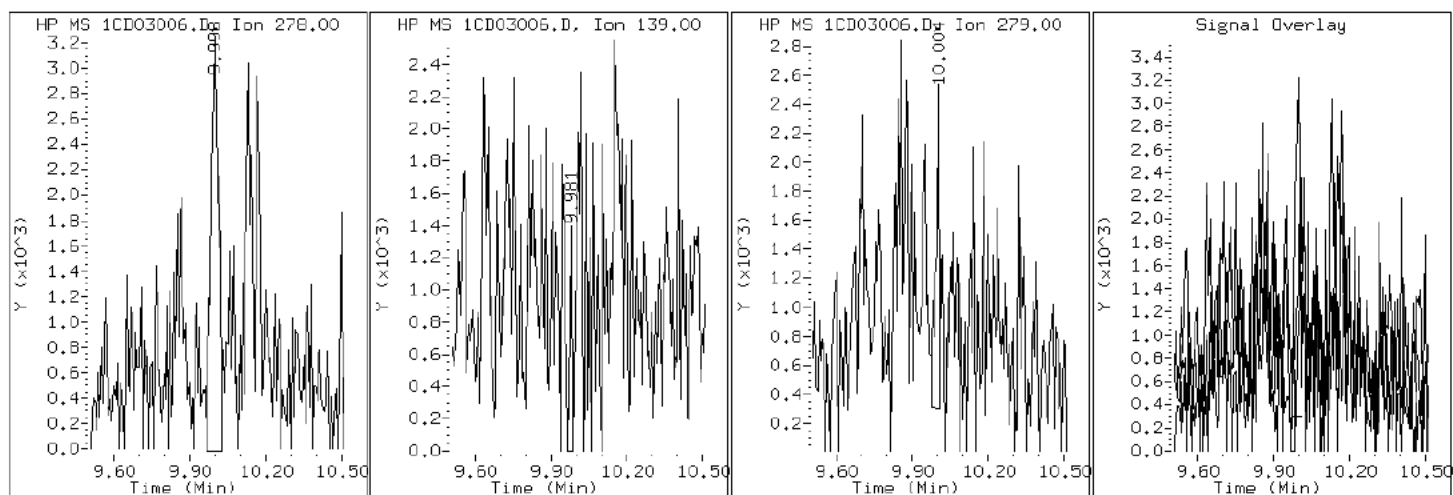
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

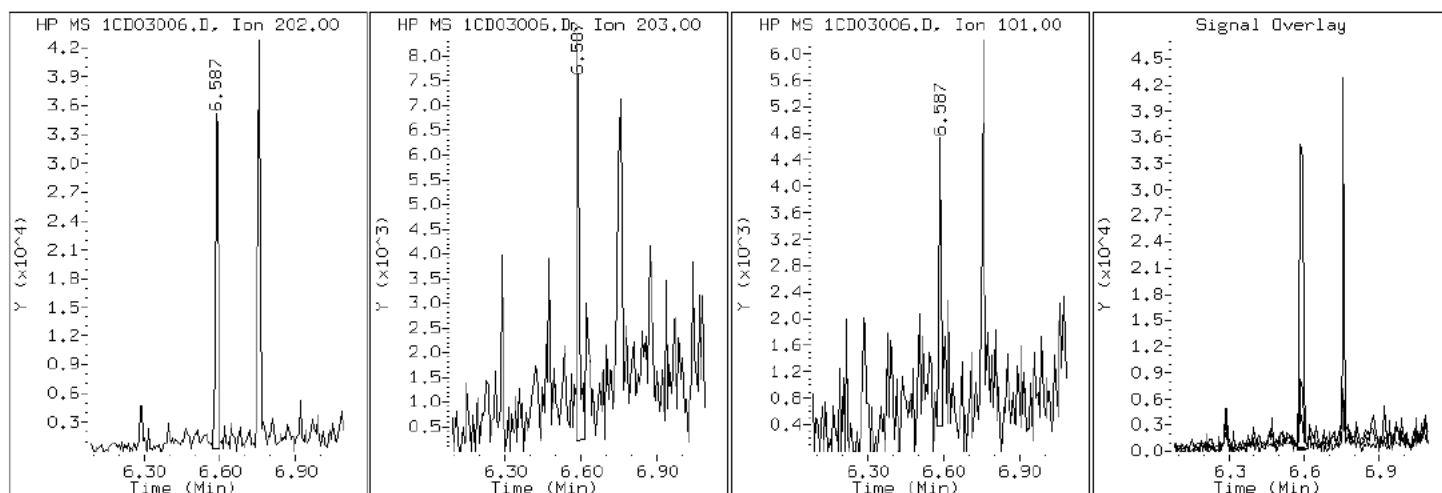
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

15 Fluoranthene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

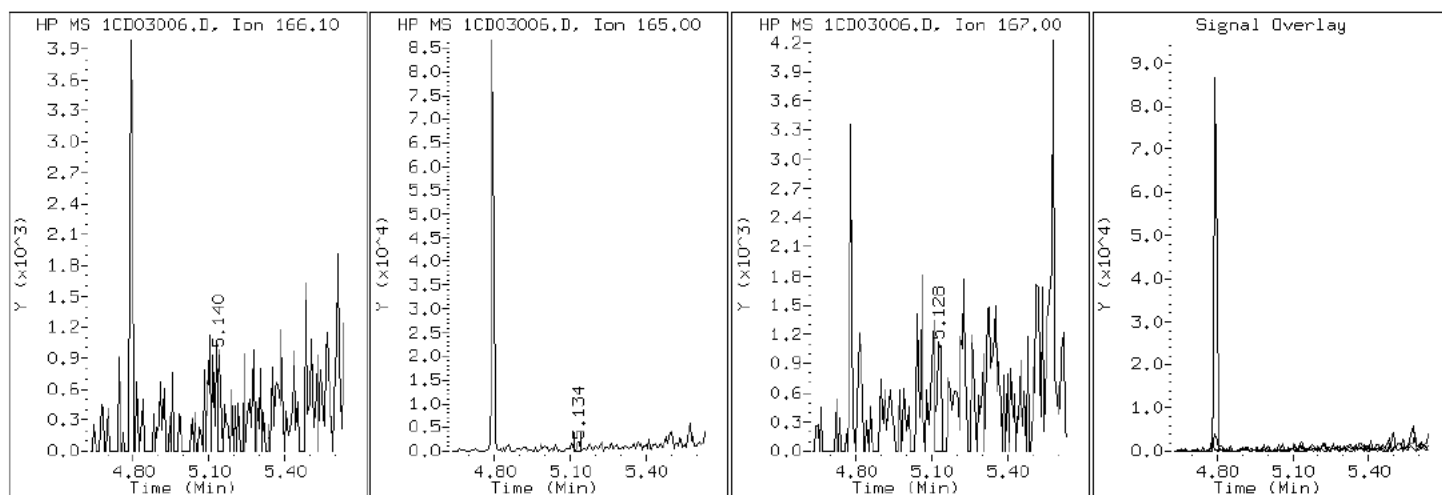
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

9 Fluorene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

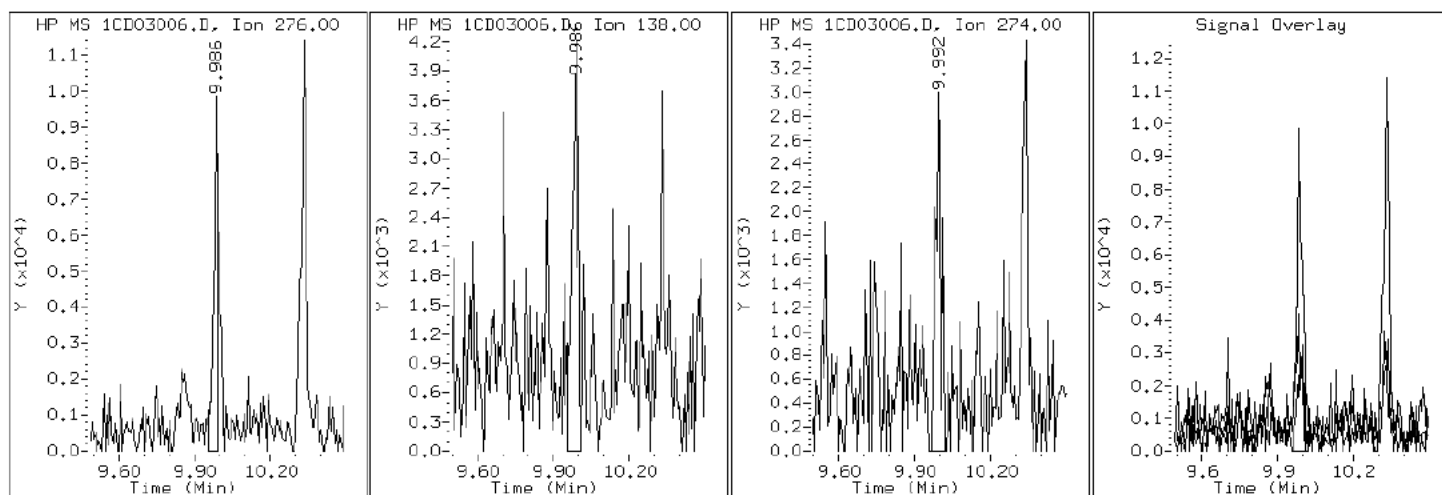
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

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



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

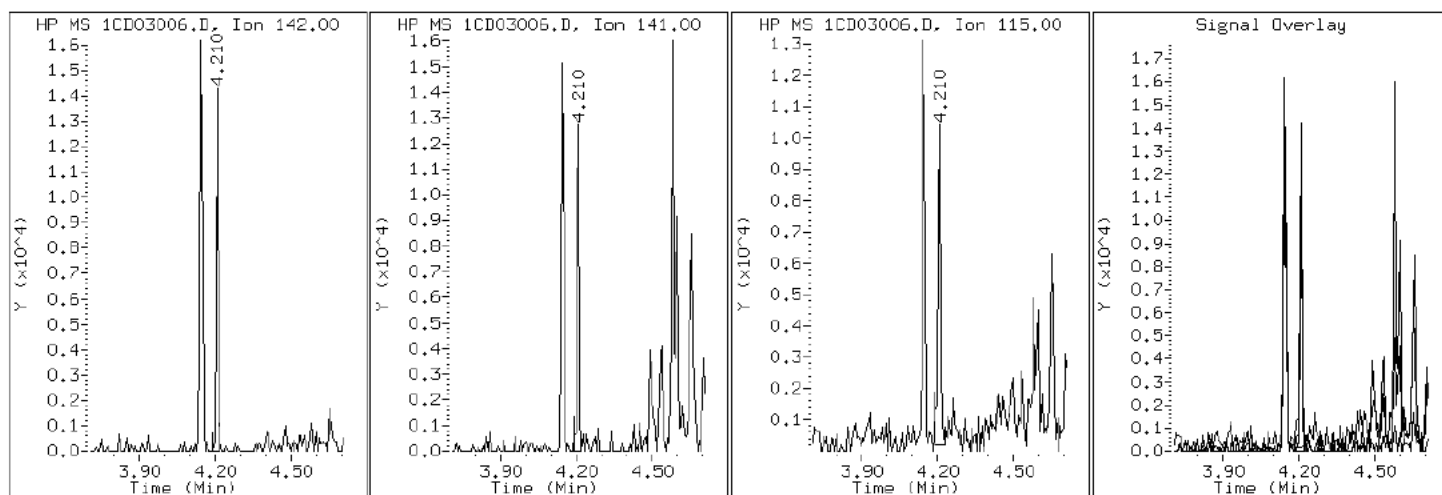
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

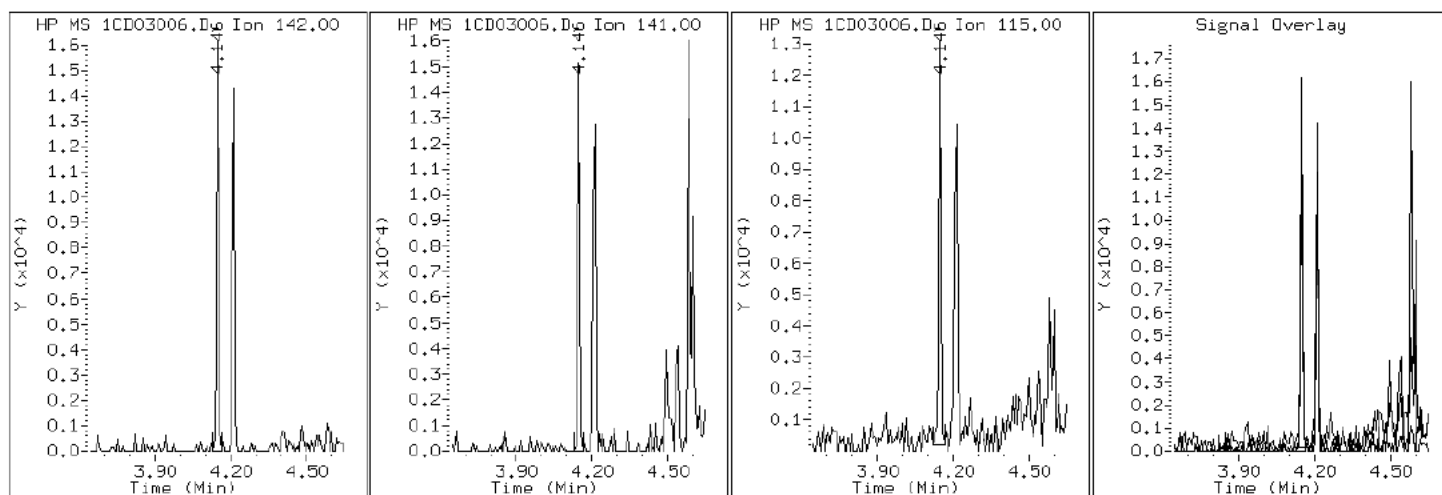
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

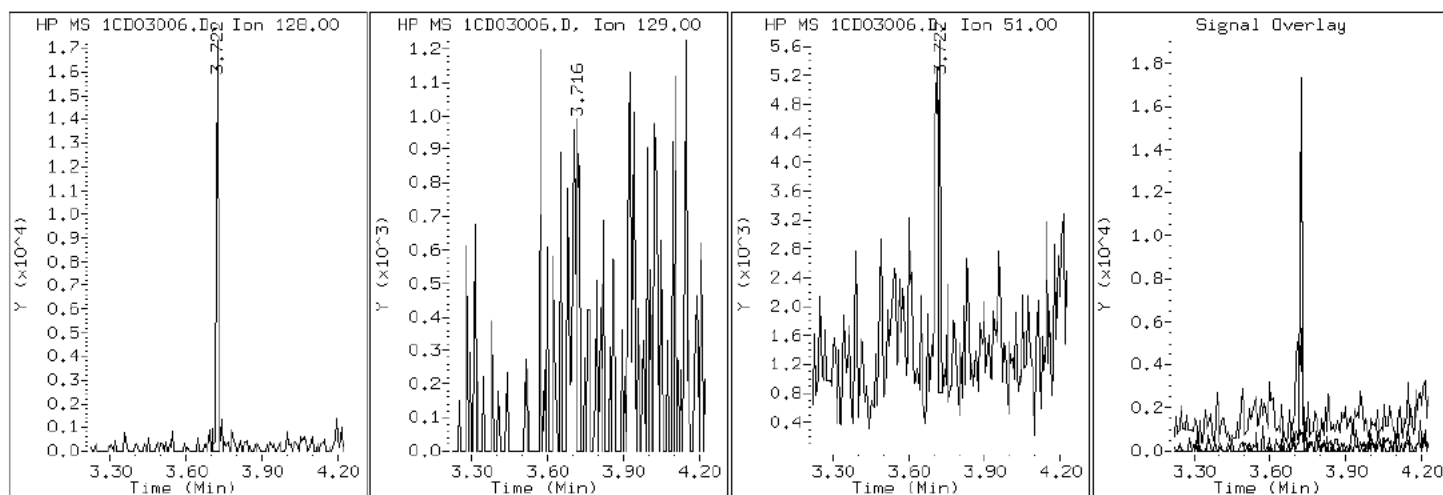
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

2 Naphthalene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

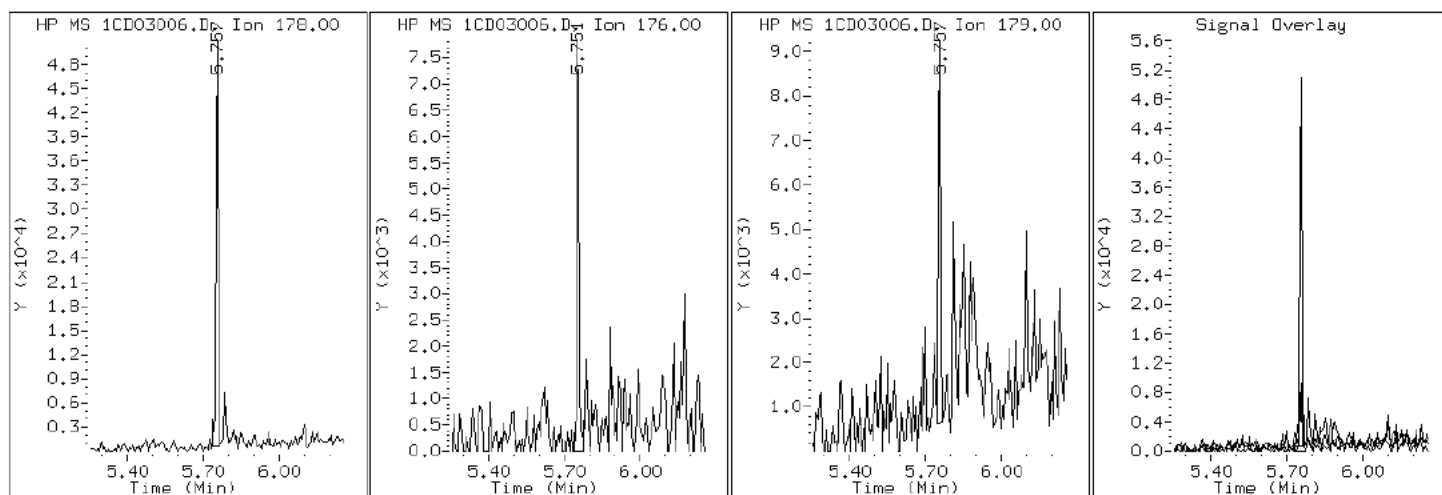
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

11 Phenanthrene



Data File: 1CD03006.D

Date: 03-APR-2013 12:40

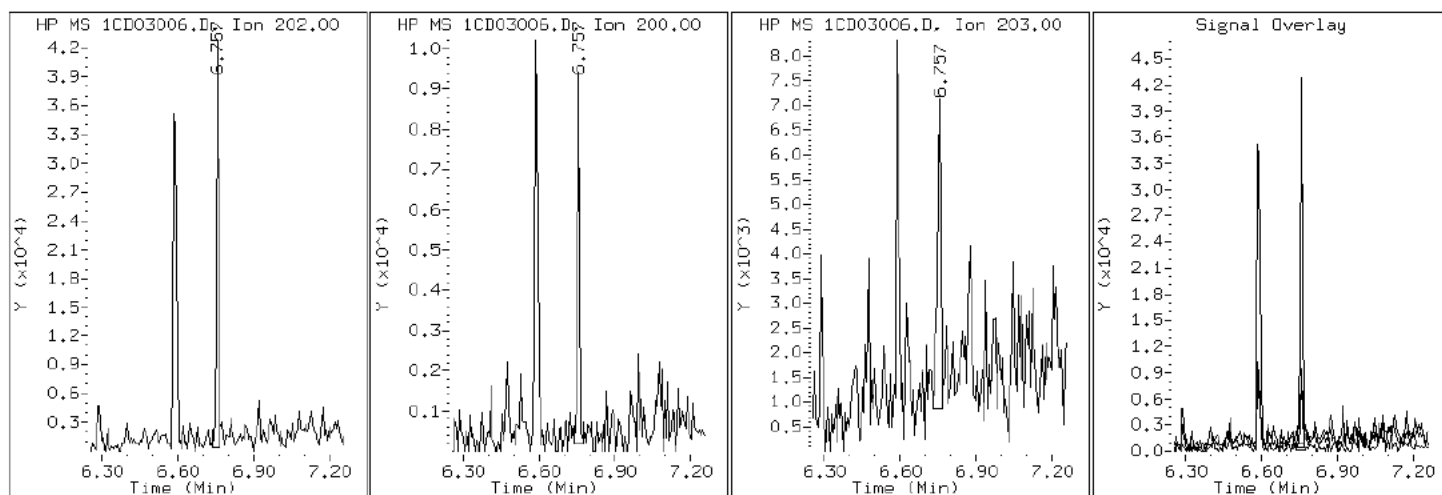
Client ID: HP0084B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-A-48-A

Operator: SCC

16 Pyrene

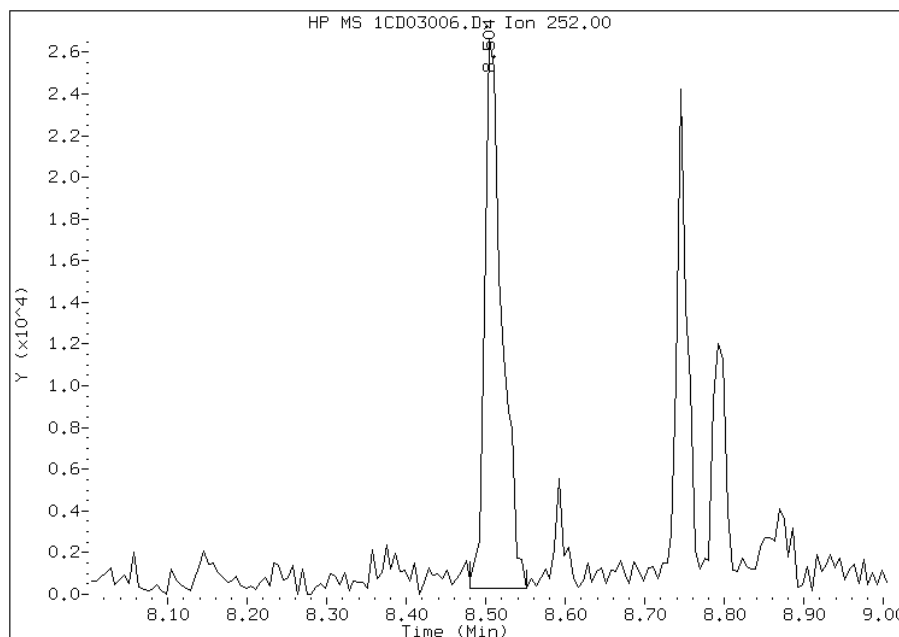


Manual Integration Report

Data File: 1CD03006.D
Inj. Date and Time: 03-APR-2013 12:40
Instrument ID: BSMC5973.i
Client ID: HP0084B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

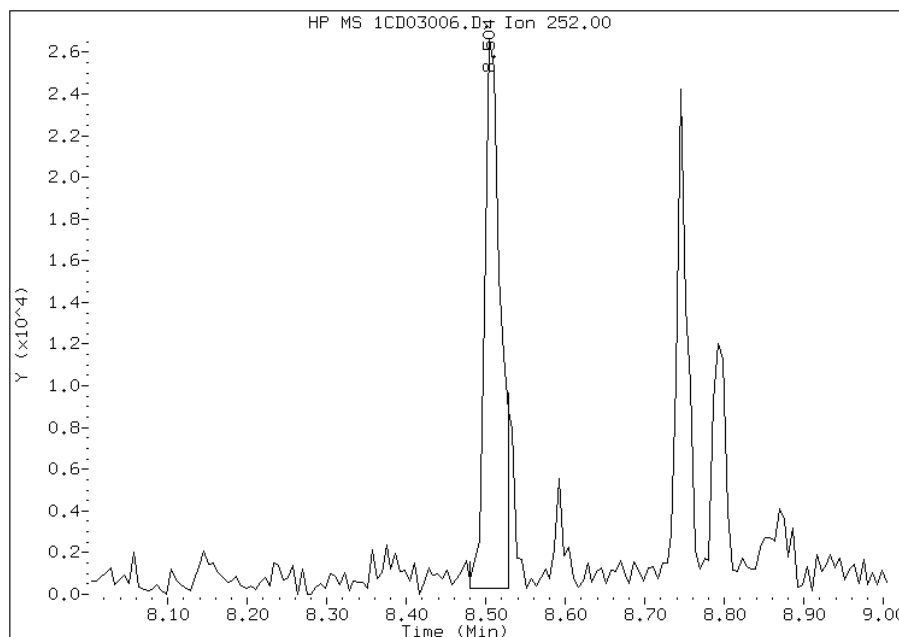
Processing Integration Results

RT: 8.50
Response: 40157
Amount: 2
Conc: 572



Manual Integration Results

RT: 8.50
Response: 36471
Amount: 1
Conc: 520



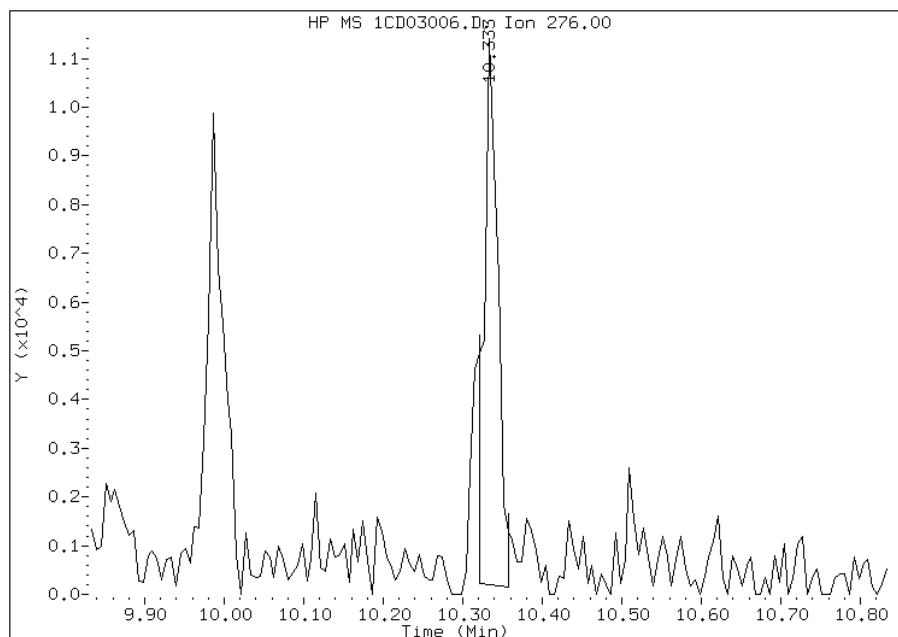
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03006.D
Inj. Date and Time: 03-APR-2013 12:40
Instrument ID: BSMC5973.i
Client ID: HP0084B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

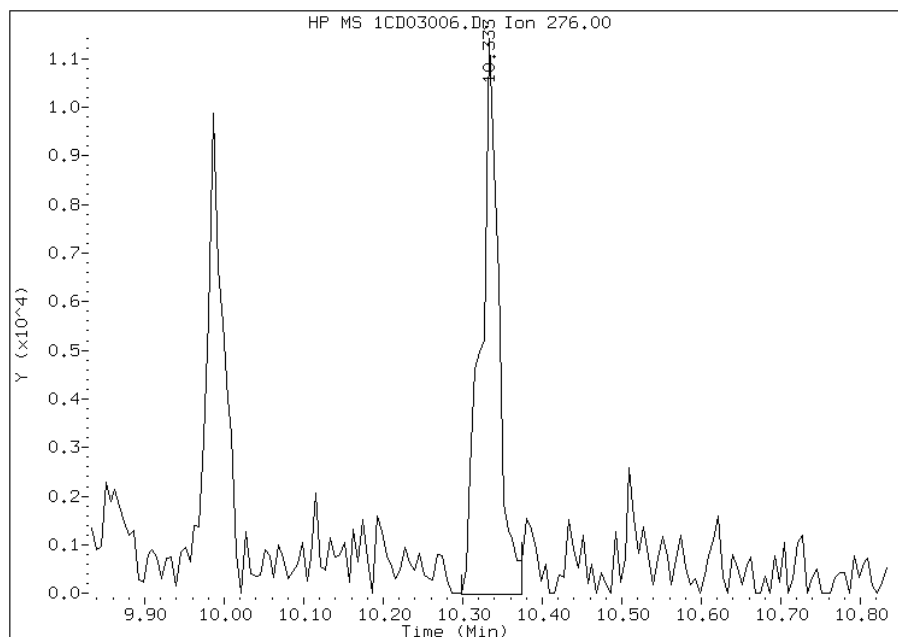
Processing Integration Results

RT: 10.33
Response: 13649
Amount: 1
Conc: 213



Manual Integration Results

RT: 10.33
Response: 17780
Amount: 1
Conc: 278



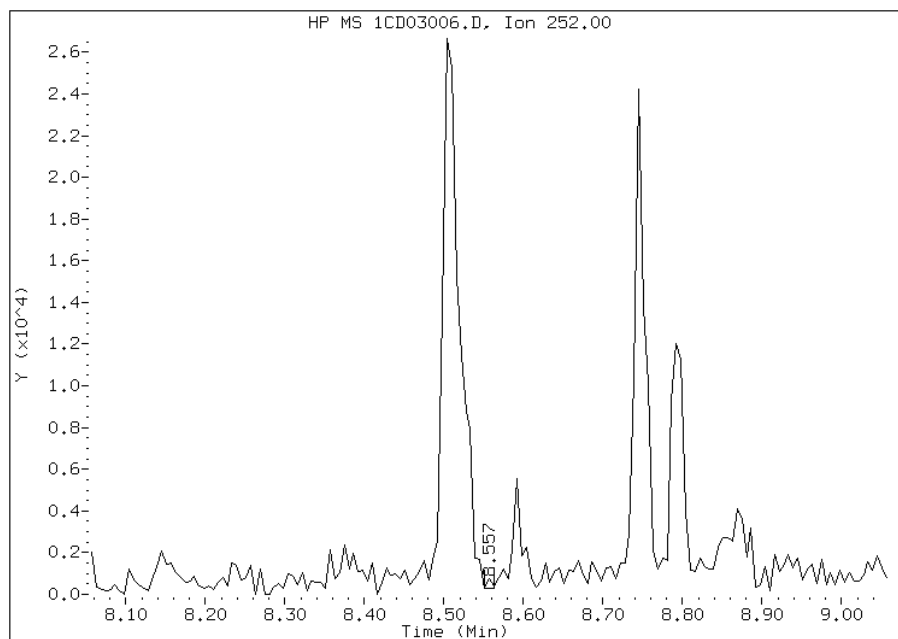
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03006.D
Inj. Date and Time: 03-APR-2013 12:40
Instrument ID: BSMC5973.i
Client ID: HP0084B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

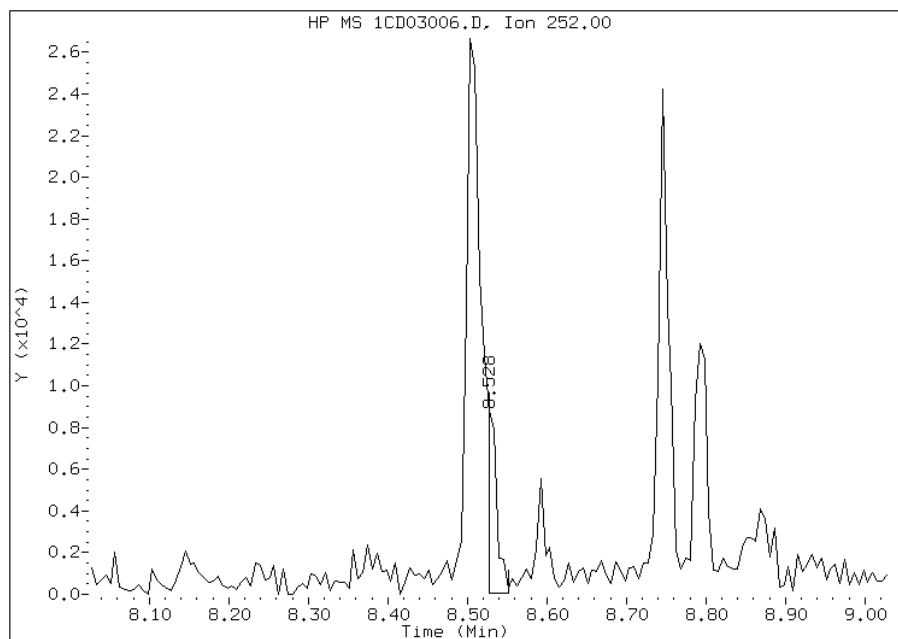
Processing Integration Results

RT: 8.56
Response: 200
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.53
Response: 7059
Amount: 0
Conc: 104



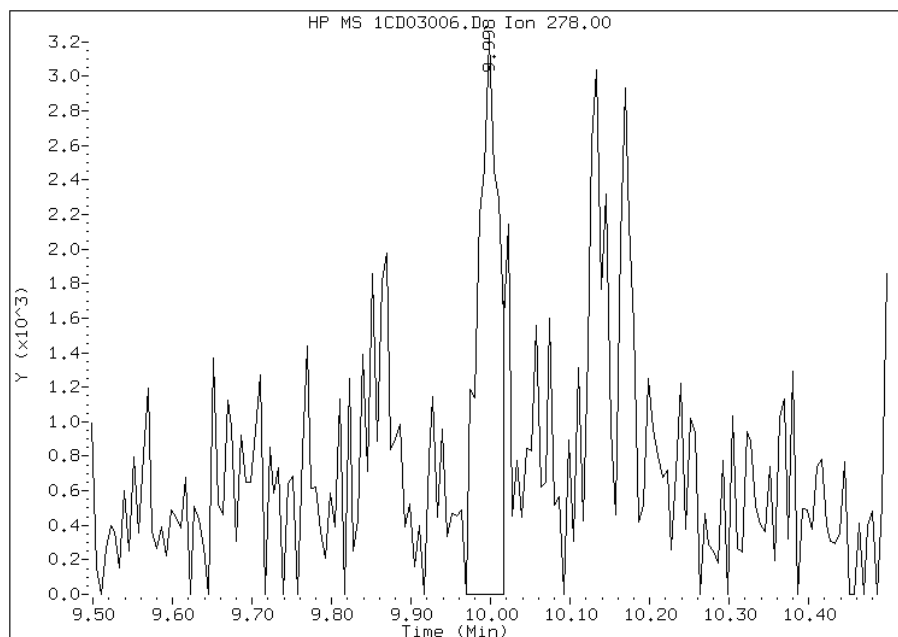
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03006.D
Inj. Date and Time: 03-APR-2013 12:40
Instrument ID: BSMC5973.i
Client ID: HP0084B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

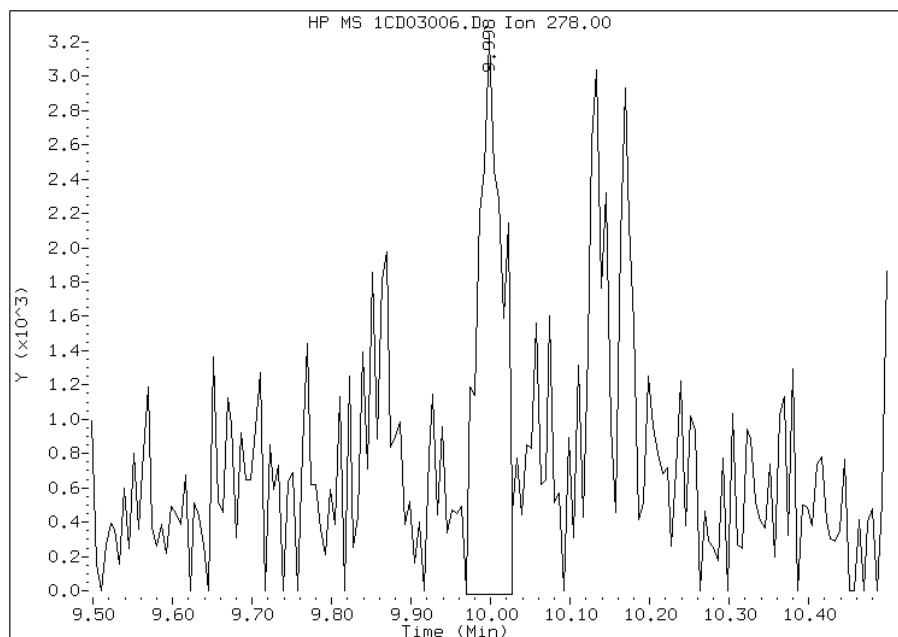
Processing Integration Results

RT: 10.00
Response: 5837
Amount: 0
Conc: 101



Manual Integration Results

RT: 10.00
Response: 6837
Amount: 0
Conc: 118



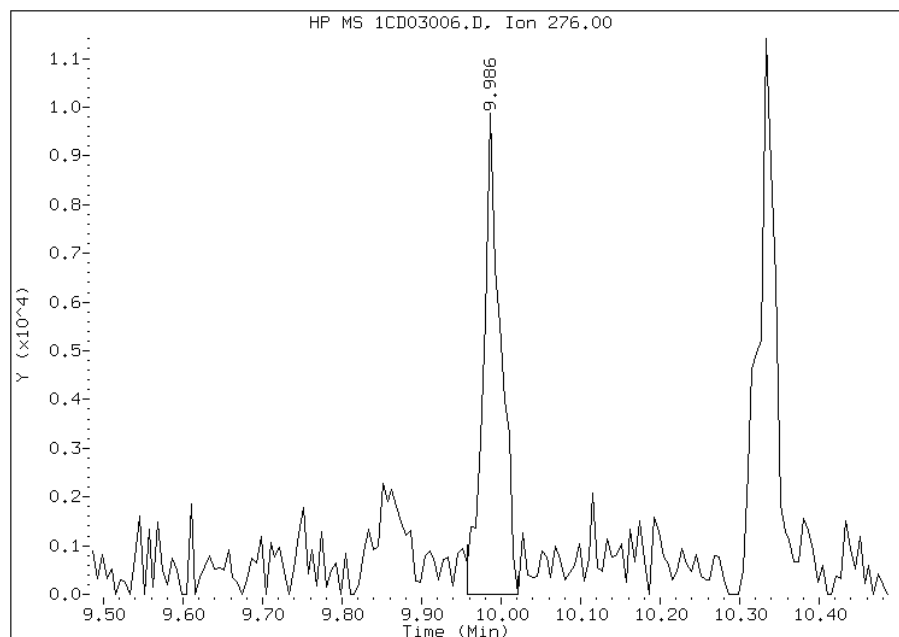
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03006.D
Inj. Date and Time: 03-APR-2013 12:40
Instrument ID: BSMC5973.i
Client ID: HP0084B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

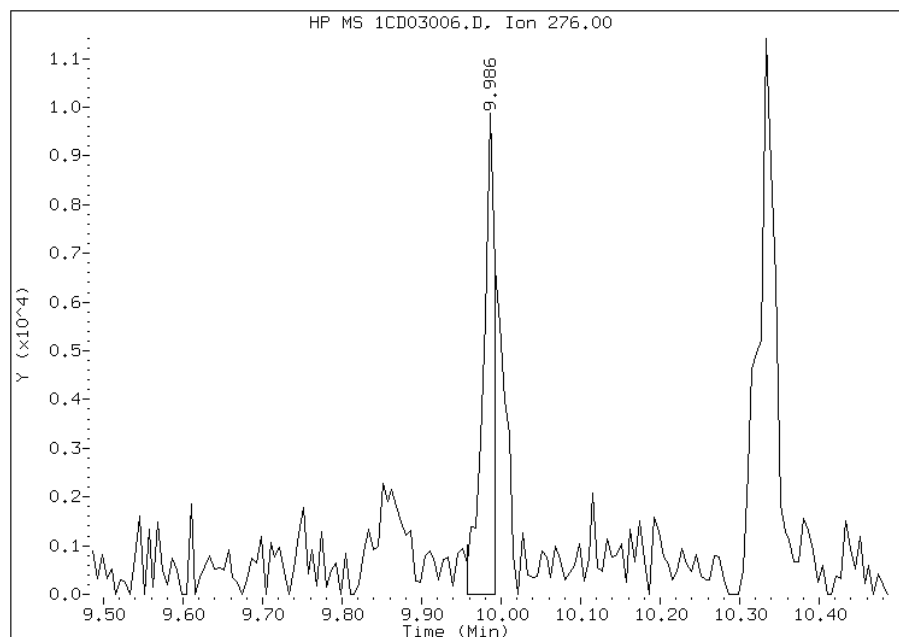
Processing Integration Results

RT: 9.99
Response: 14969
Amount: 1
Conc: 239



Manual Integration Results

RT: 9.99
Response: 10154
Amount: 0
Conc: 162



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>HP0084C-GS-SP</u>	Lab Sample ID: <u>680-88632-49</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD02031.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 08:08</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2013 10:19</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>04/02/2013 21:32</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>20.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136079</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	17	J	50	6.3
120-12-7	Anthracene	38		11	5.3
56-55-3	Benzo[a]anthracene	240		10	4.9
50-32-8	Benzo[a]pyrene	220		13	6.5
205-99-2	Benzo[b]fluoranthene	430		15	7.7
191-24-2	Benzo[g,h,i]perylene	190		25	5.5
207-08-9	Benzo[k]fluoranthene	150		10	4.5
218-01-9	Chrysene	440		11	5.7
53-70-3	Dibenz(a,h)anthracene	63		25	5.1
206-44-0	Fluoranthene	340		25	5.0
86-73-7	Fluorene	35		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.9
90-12-0	1-Methylnaphthalene	220		50	5.5
91-57-6	2-Methylnaphthalene	320		50	8.9
91-20-3	Naphthalene	180		50	5.5
85-01-8	Phenanthrene	400		10	4.9
129-00-0	Pyrene	280		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02031.D
Lab Smp Id: 680-88632-A-49-A Client Smp ID: HP0084C-GS-SP
Inj Date : 02-APR-2013 21:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-49-a
Misc Info : 680-88632-A-49-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02031.D
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	20.306	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.710	3.710	(1.000)		631410	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.798	(1.000)		531863	40.0000	
* 10 Phenanthrene-d10	188		5.745	5.745	(1.000)		1032380	40.0000	
\$ 14 o-Terphenyl	230		5.998	5.998	(1.044)		80356	5.49402	459.8977
* 18 Chrysene-d12	240		7.686	7.686	(1.000)		1219735	40.0000	
* 23 Perylene-d12	264		8.862	8.862	(1.000)		1125076	40.0000	
2 Naphthalene	128		3.721	3.721	(1.003)		34472	2.12559	177.9303
3 2-Methylnaphthalene	142		4.151	4.151	(1.119)		42503	3.85005	322.2828
4 1-Methylnaphthalene	142		4.216	4.216	(1.136)		25608	2.57795	215.7967
5 Acenaphthylene	152		4.710	4.710	(0.982)		4534	0.20597	17.2418(Q)
9 Fluorene	166		5.139	5.139	(1.071)		7684	0.42277	35.3897(Q)
11 Phenanthrene	178		5.763	5.763	(1.003)		142837	4.75051	397.6596
12 Anthracene	178		5.798	5.798	(1.009)		13726	0.45033	37.6966
13 Carbazole	167		5.904	5.904	(1.028)		10823	0.41446	34.6940(Q)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.598	6.598	(1.148)	133706	4.02656	337.0585
16 Pyrene	202	6.762	6.762	(0.880)	112849	3.33995	279.5834
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	95802	2.84636	238.2654
19 Chrysene	228	7.704	7.704	(1.002)	183490	5.27921	441.9159
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	164928	5.18530	434.0549(M)
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	54831	1.78237	149.2000(QM)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	79641	2.65954	222.6267
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	42271	1.48619	124.4074(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	19719	0.75051	62.8242
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	67622	2.32947	194.9970

QC Flag Legend

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

Data File: 1CD02031.D

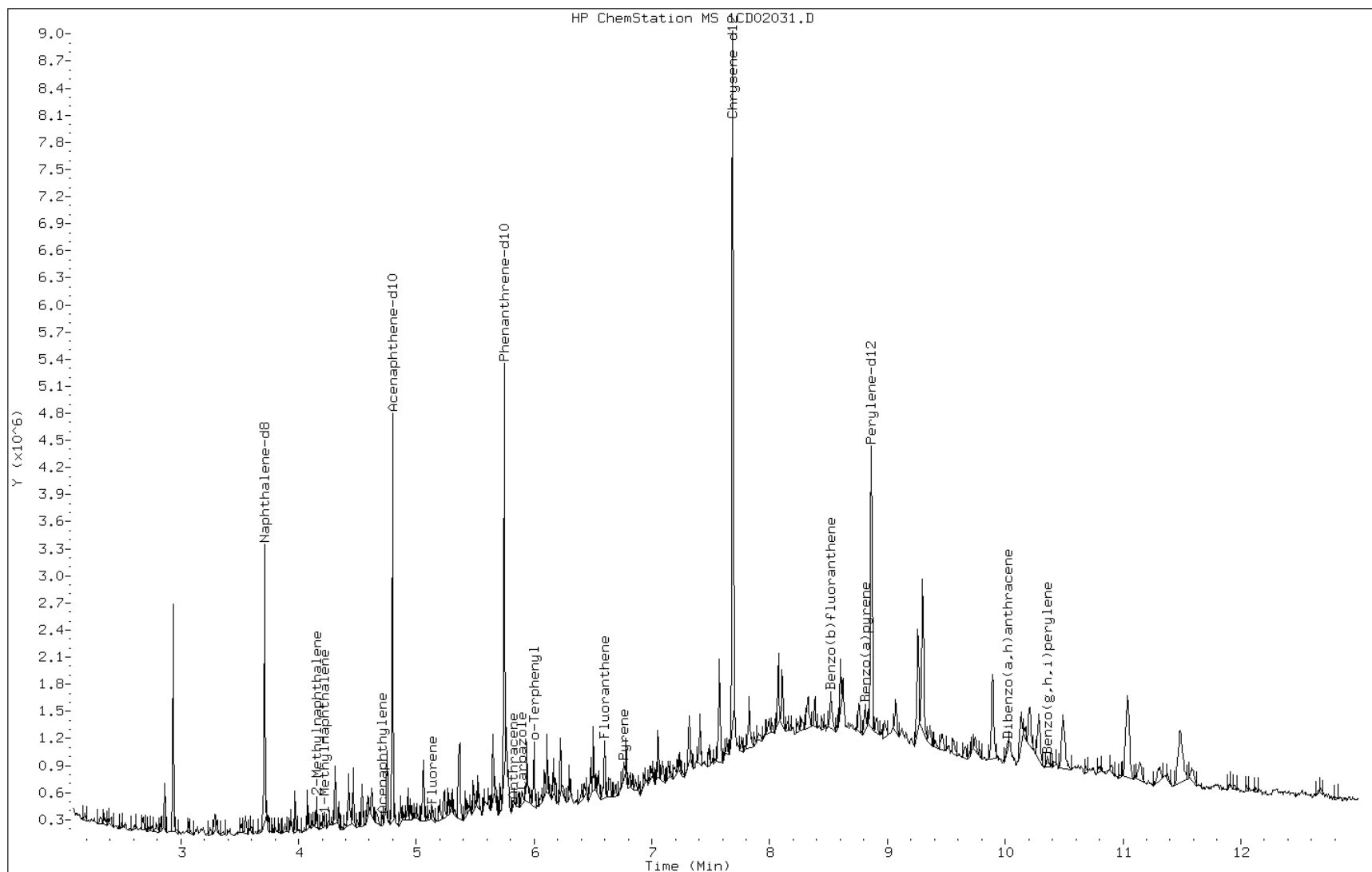
Date: 02-APR-2013 21:32

Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

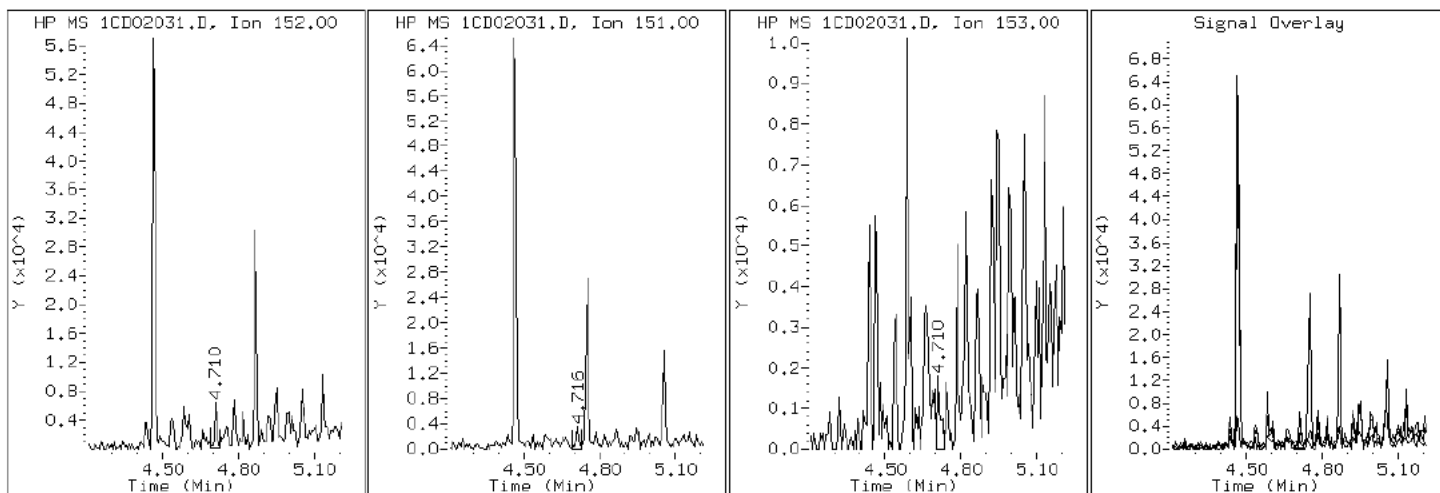
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

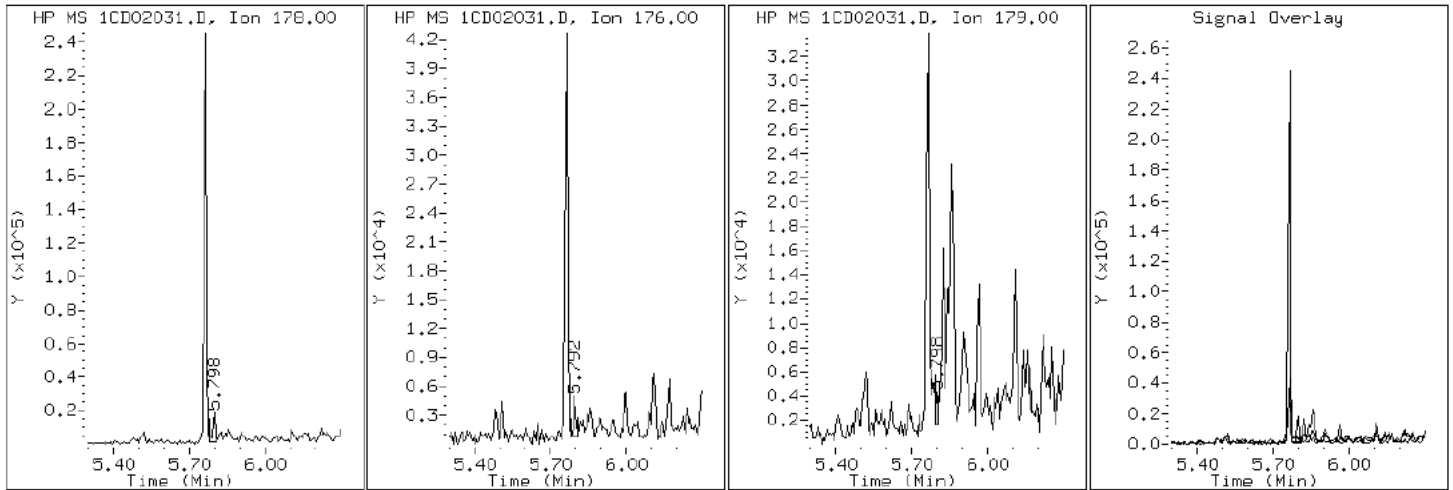
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

12 Anthracene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

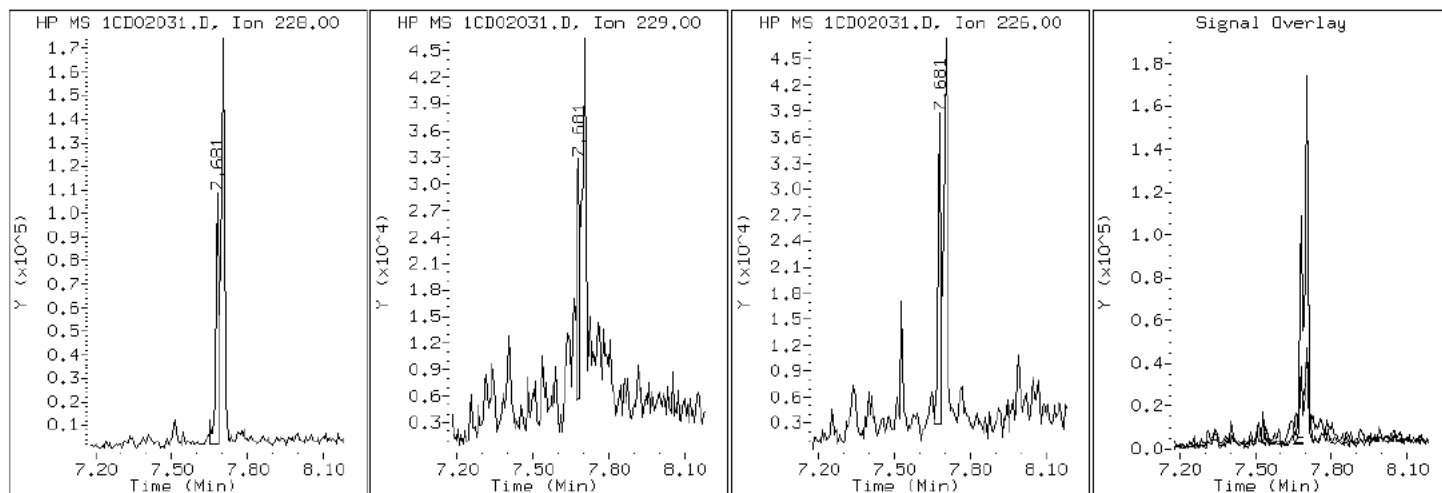
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

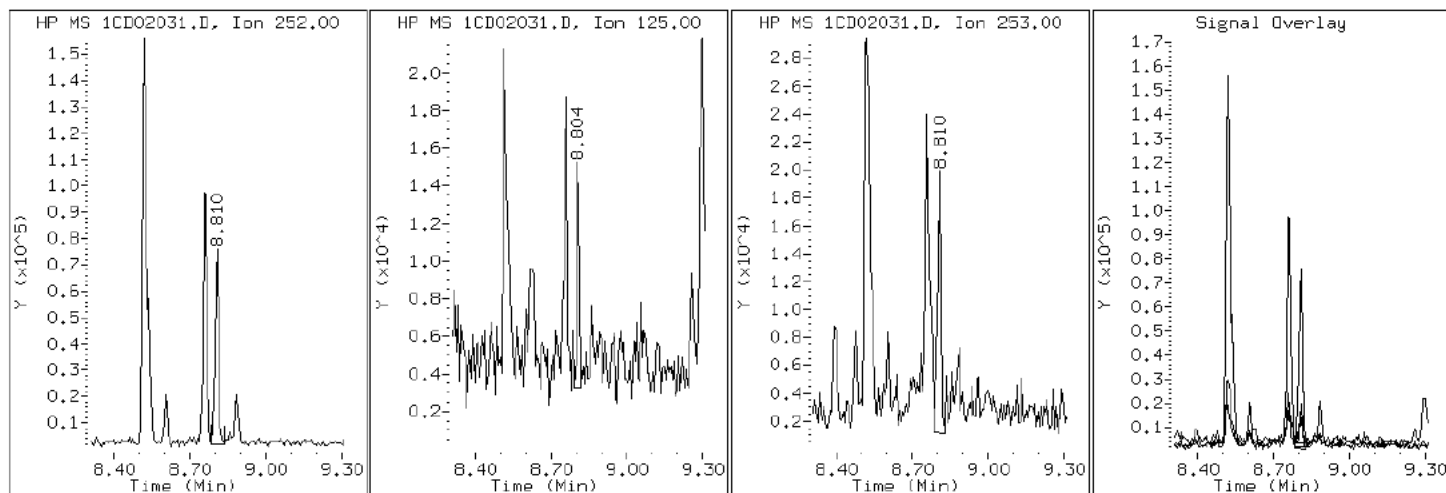
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

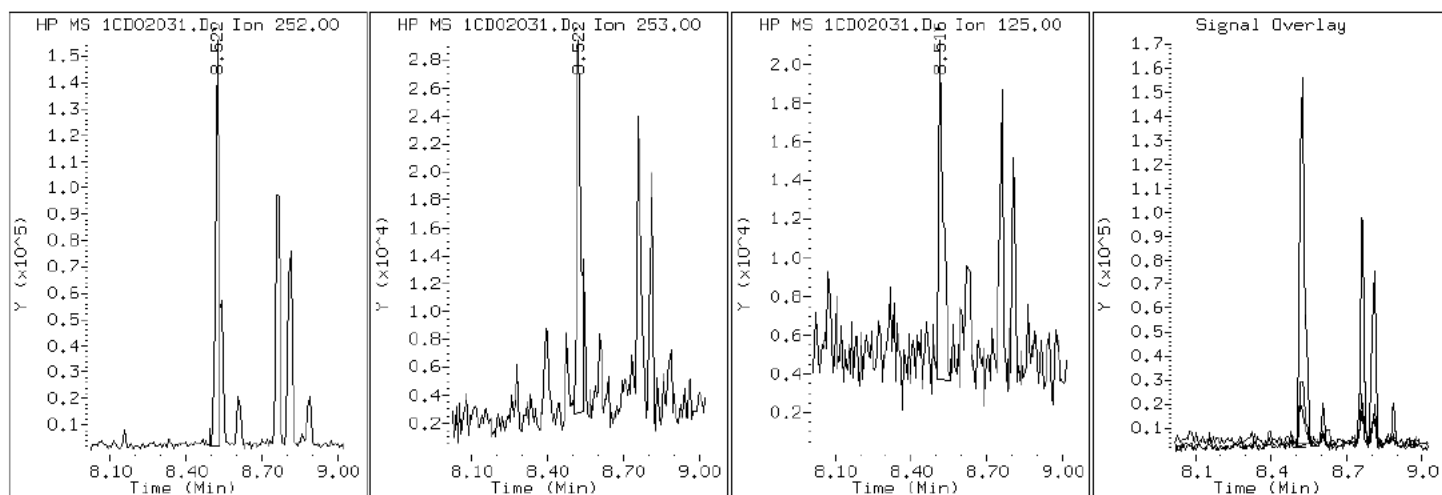
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

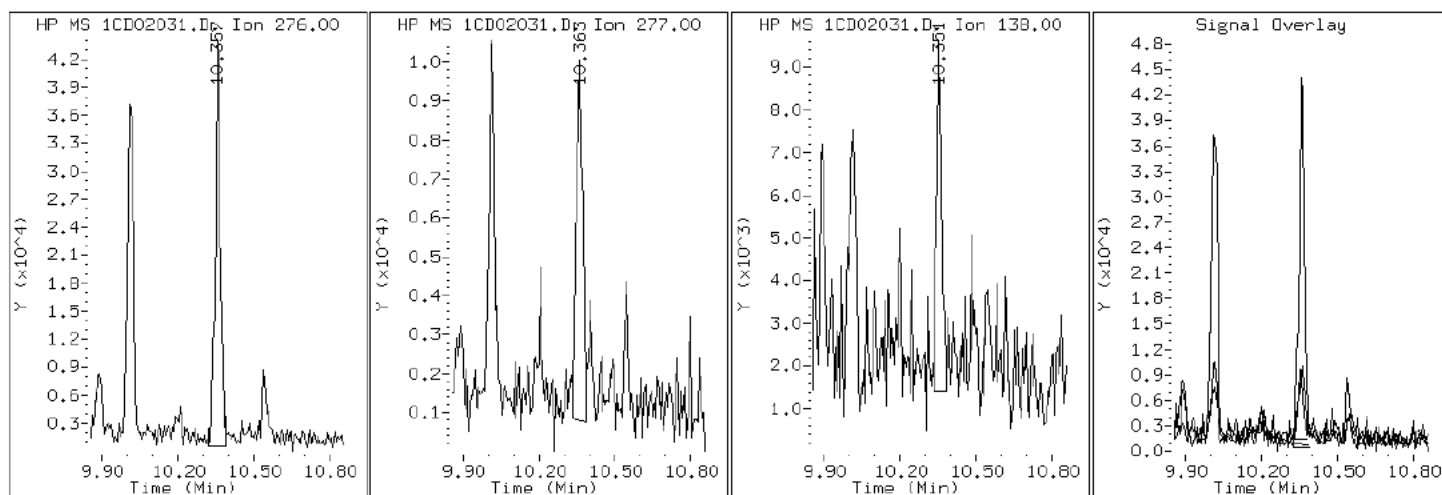
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

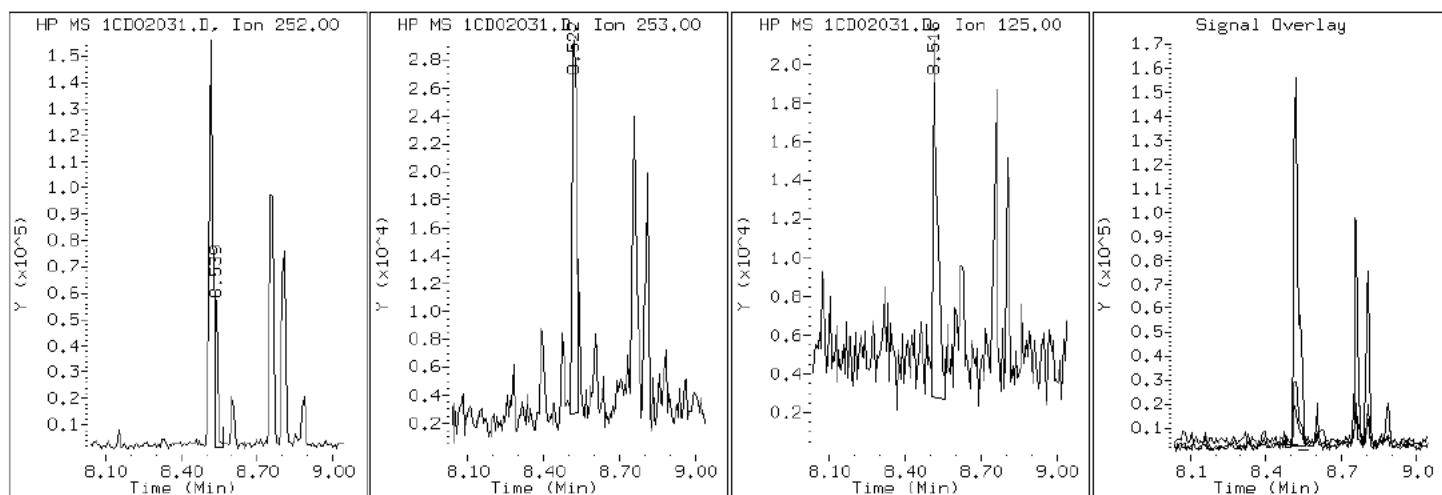
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

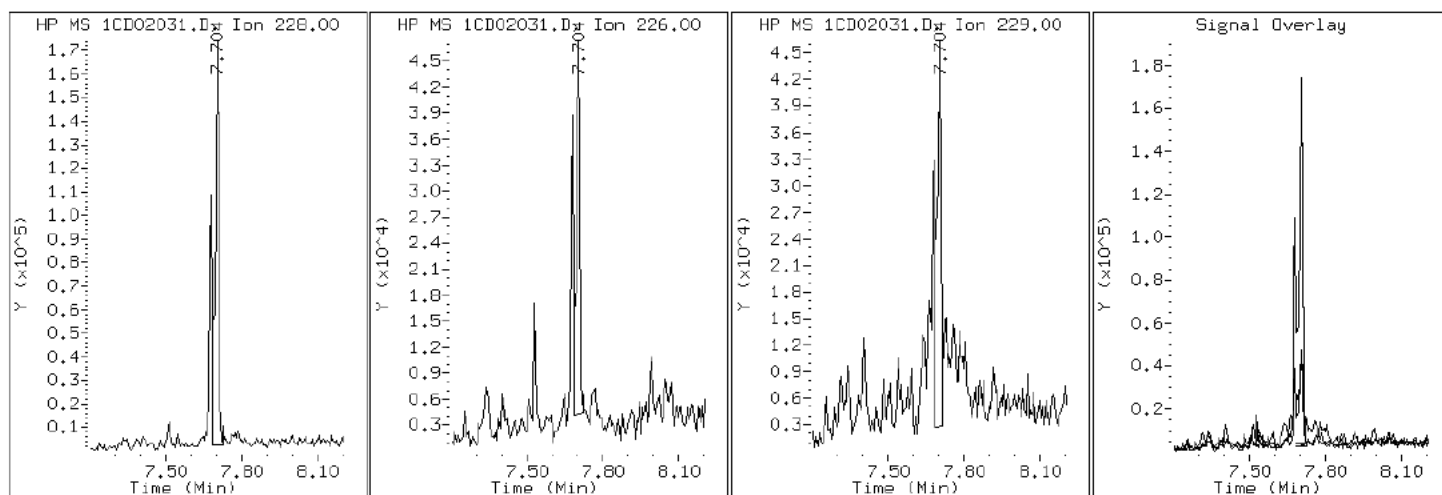
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

19 Chrysene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

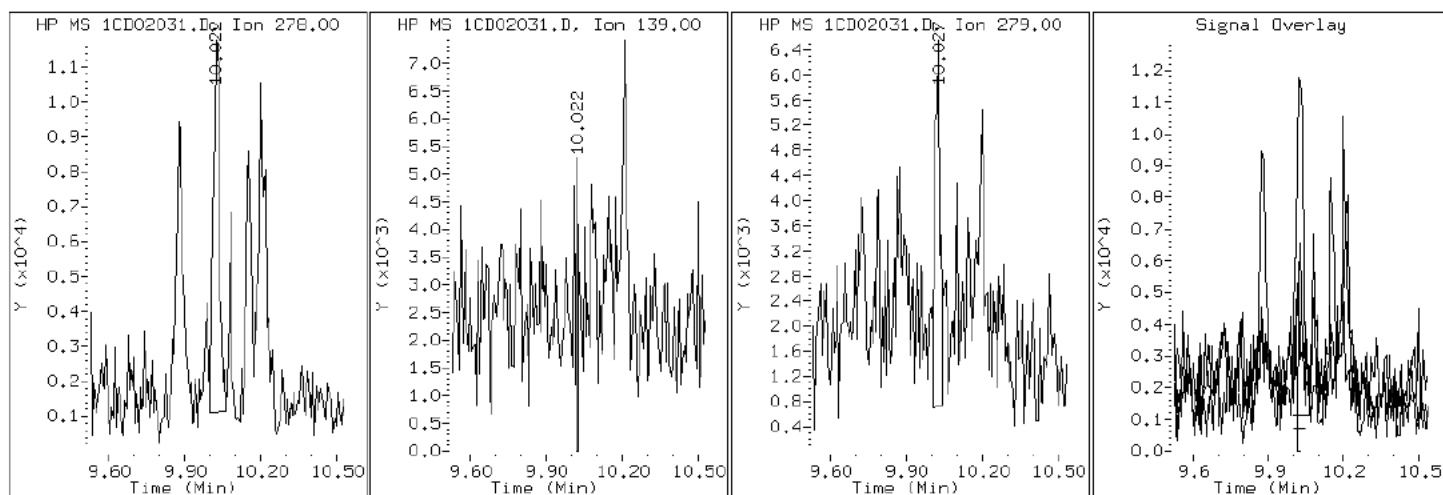
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

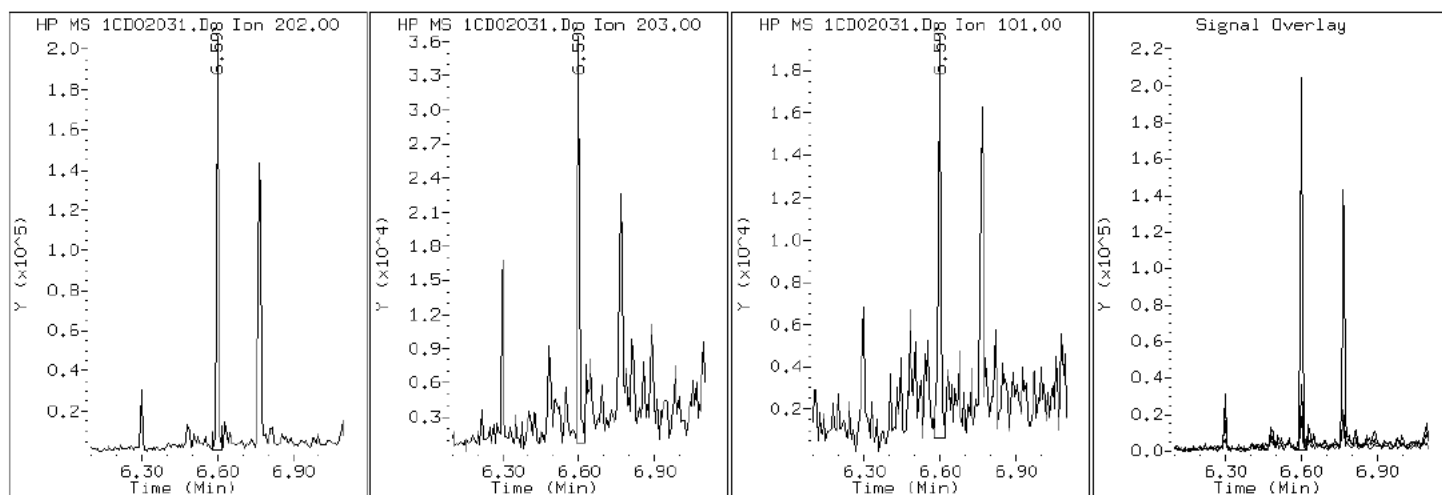
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

15 Fluoranthene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

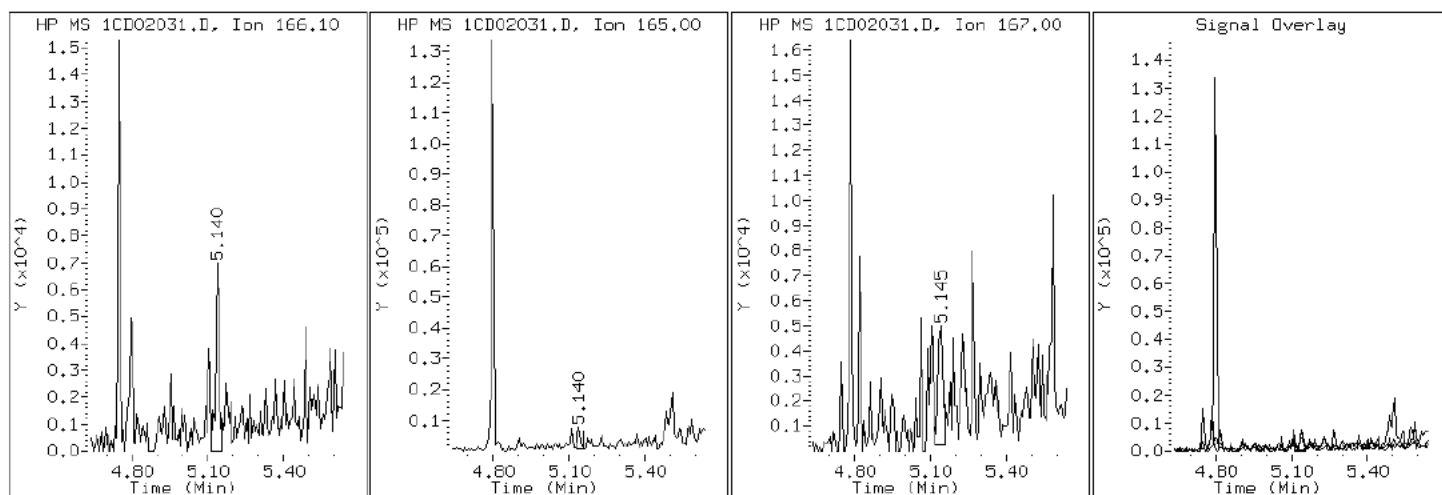
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

9 Fluorene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

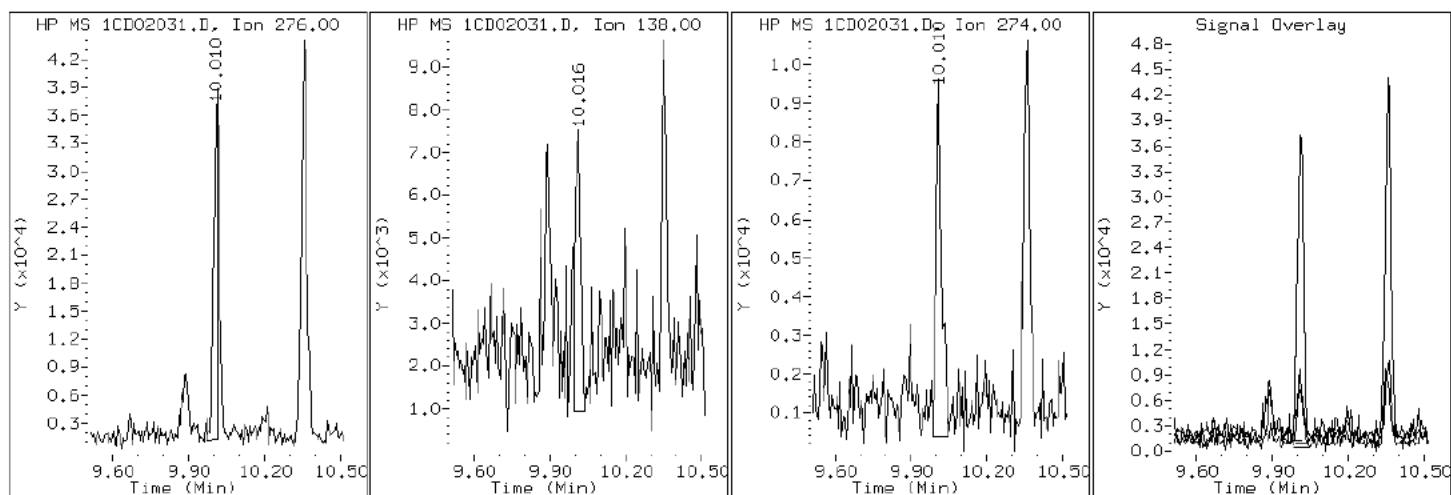
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

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



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

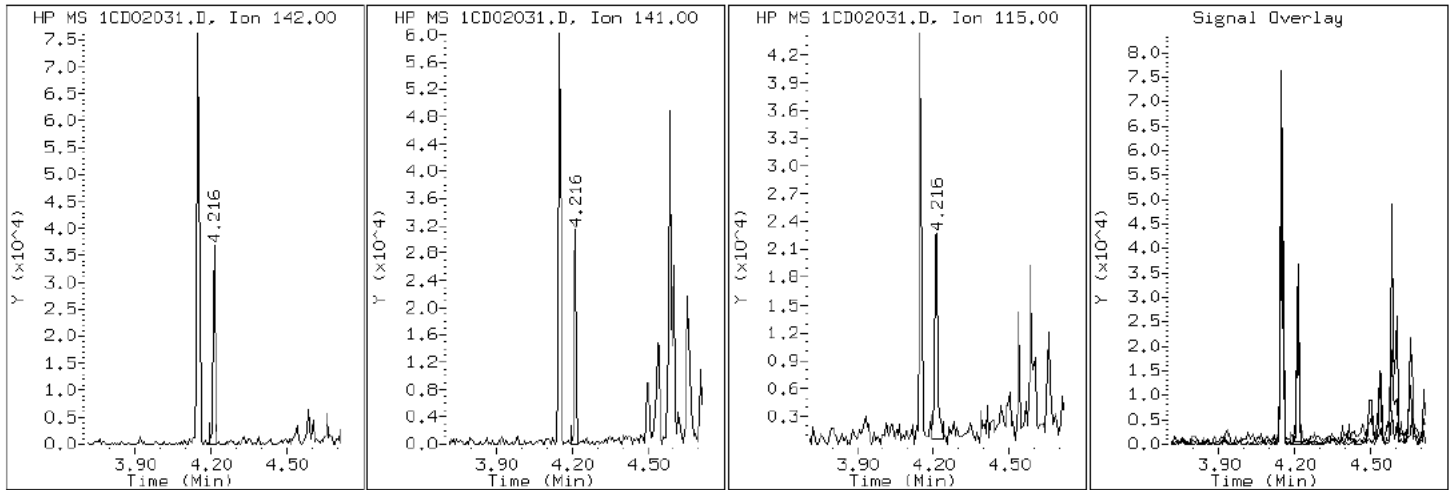
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

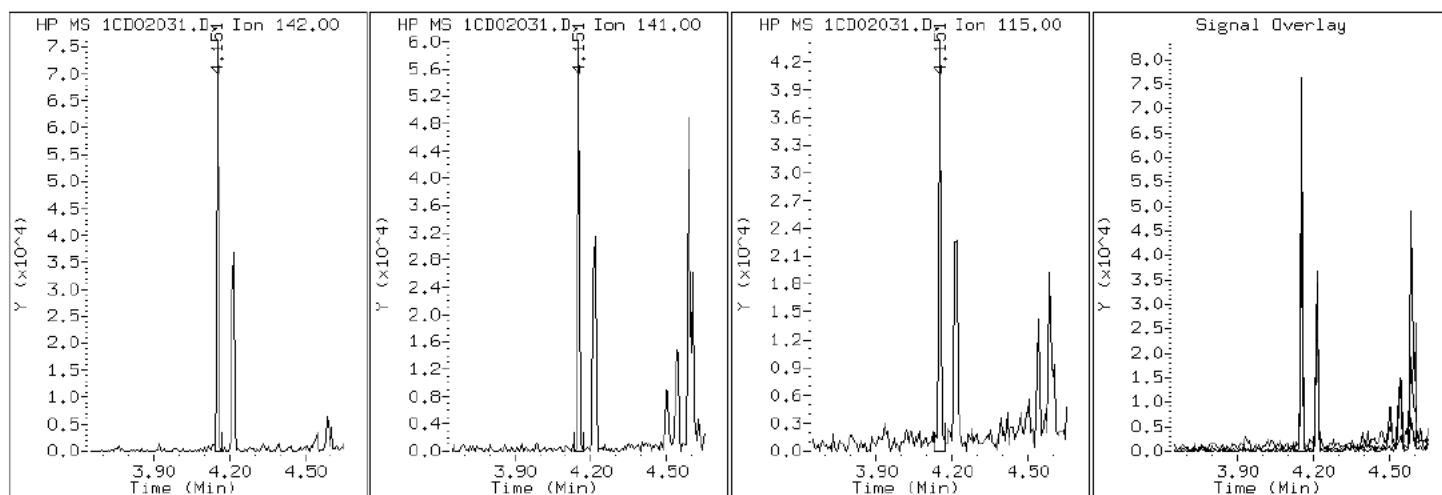
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

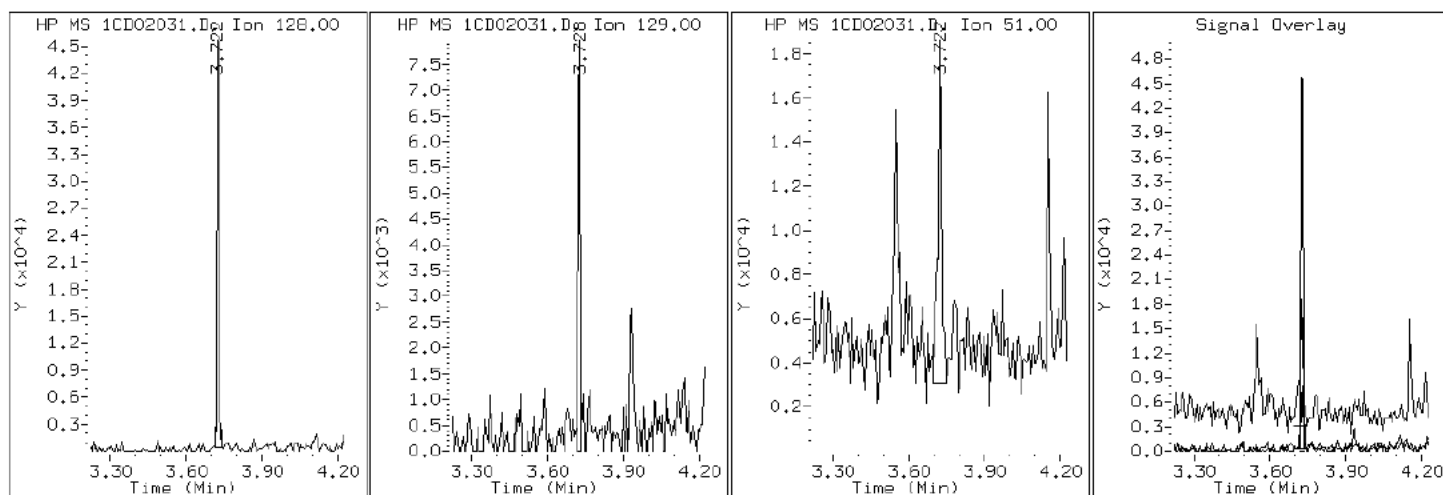
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

2 Naphthalene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

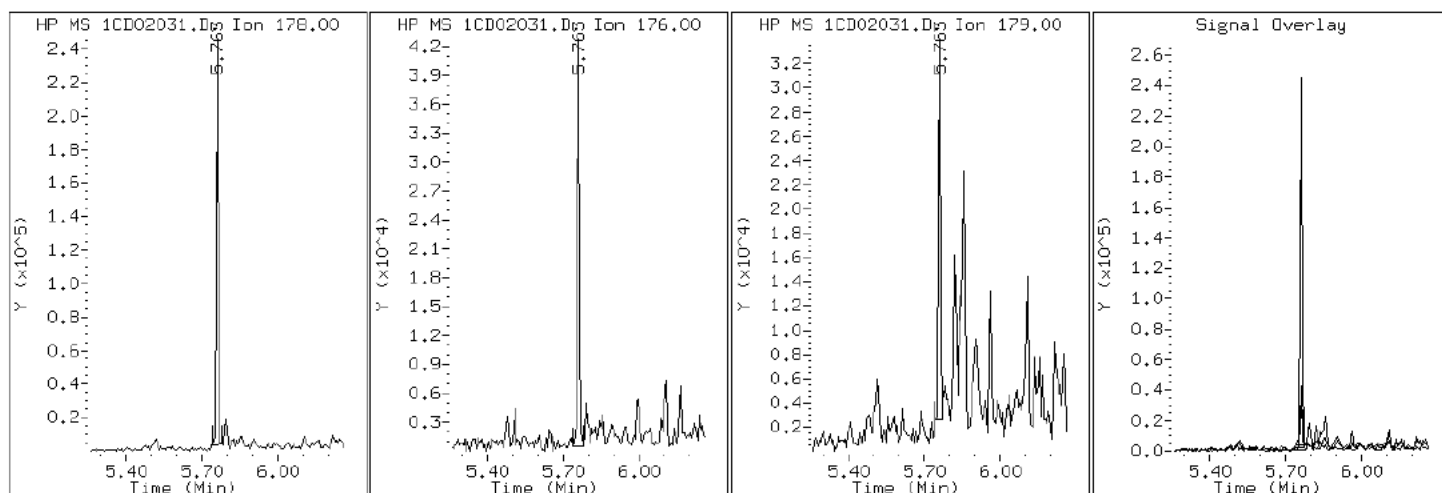
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

11 Phenanthrene



Data File: 1CD02031.D

Date: 02-APR-2013 21:32

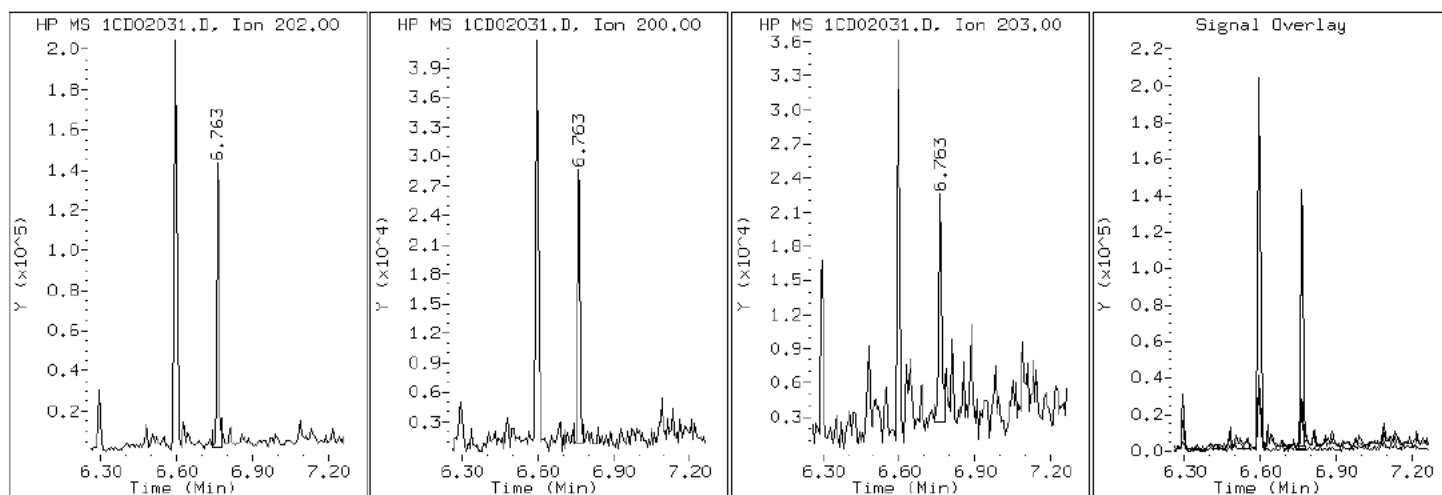
Client ID: HP0084C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-49-a

Operator: SCC

16 Pyrene

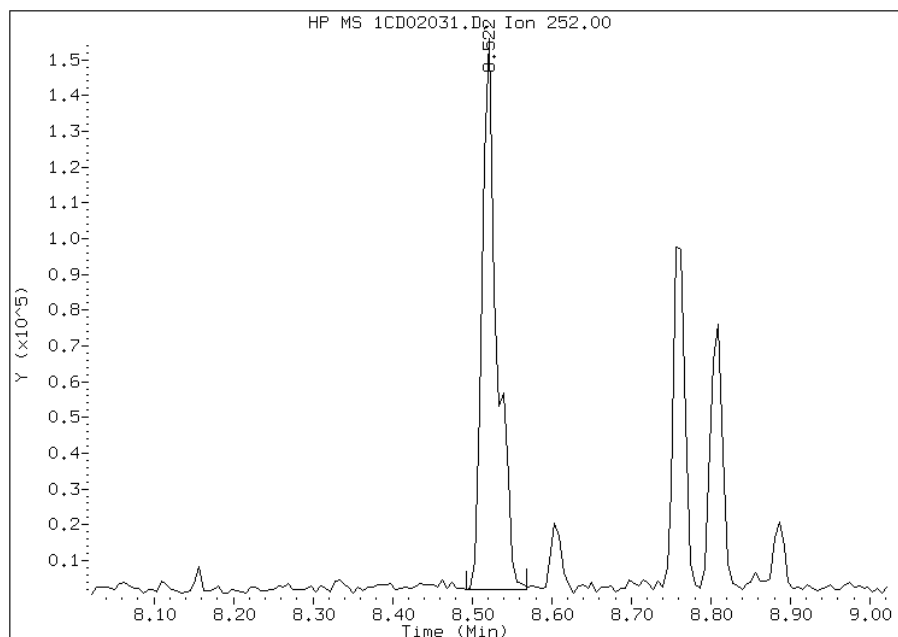


Manual Integration Report

Data File: 1CD02031.D
Inj. Date and Time: 02-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: HP0084C-GS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

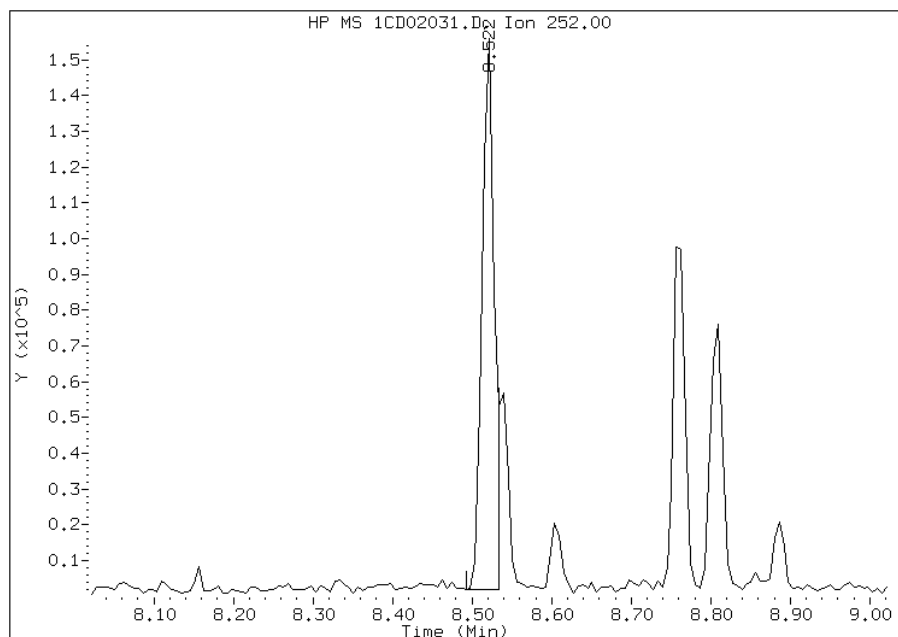
Processing Integration Results

RT: 8.52
Response: 199944
Amount: 6
Conc: 526



Manual Integration Results

RT: 8.52
Response: 164928
Amount: 5
Conc: 434



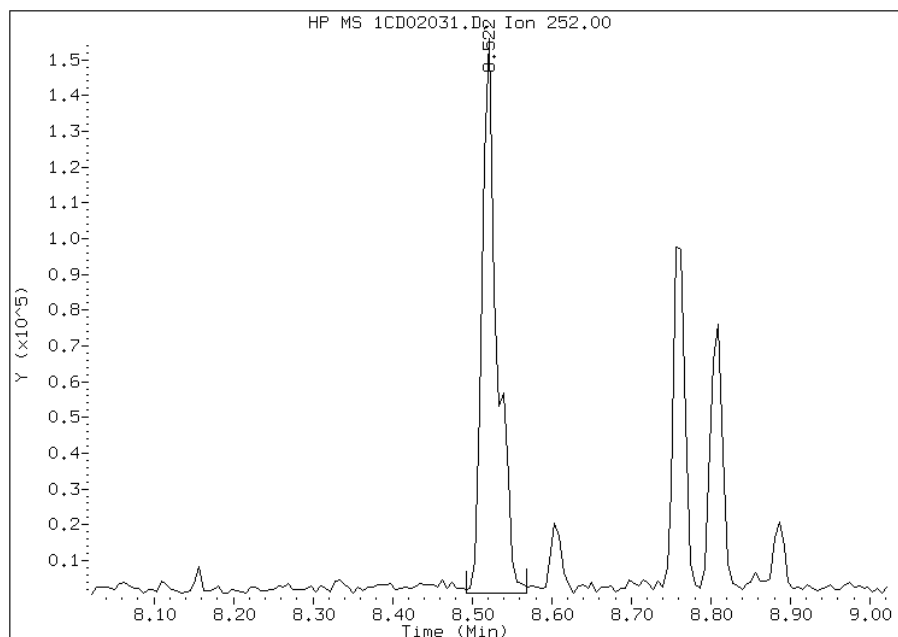
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02031.D
Inj. Date and Time: 02-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: HP0084C-GS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

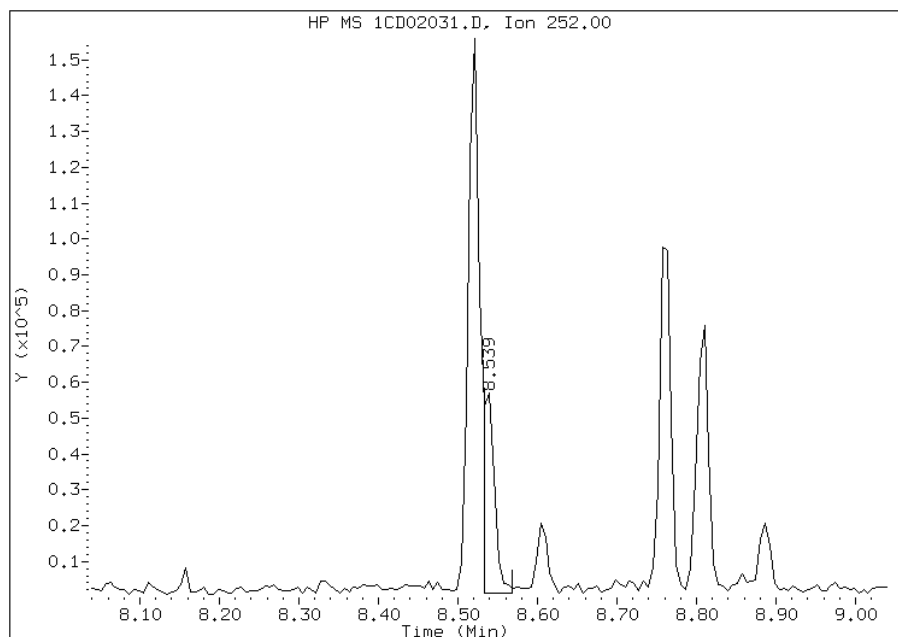
Processing Integration Results

RT: 8.52
Response: 204403
Amount: 7
Conc: 556



Manual Integration Results

RT: 8.54
Response: 54831
Amount: 2
Conc: 149



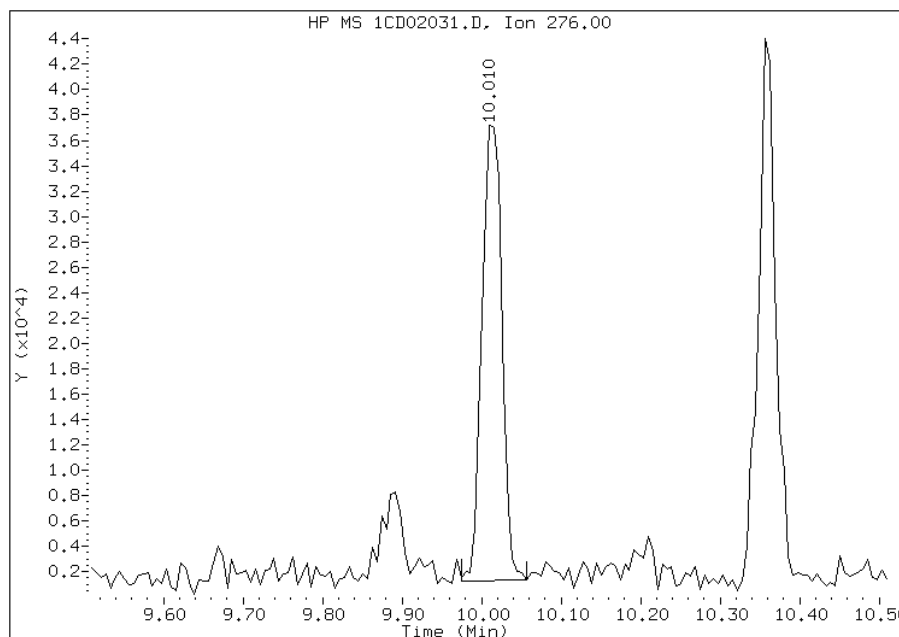
Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02031.D
Inj. Date and Time: 02-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: HP0084C-GS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

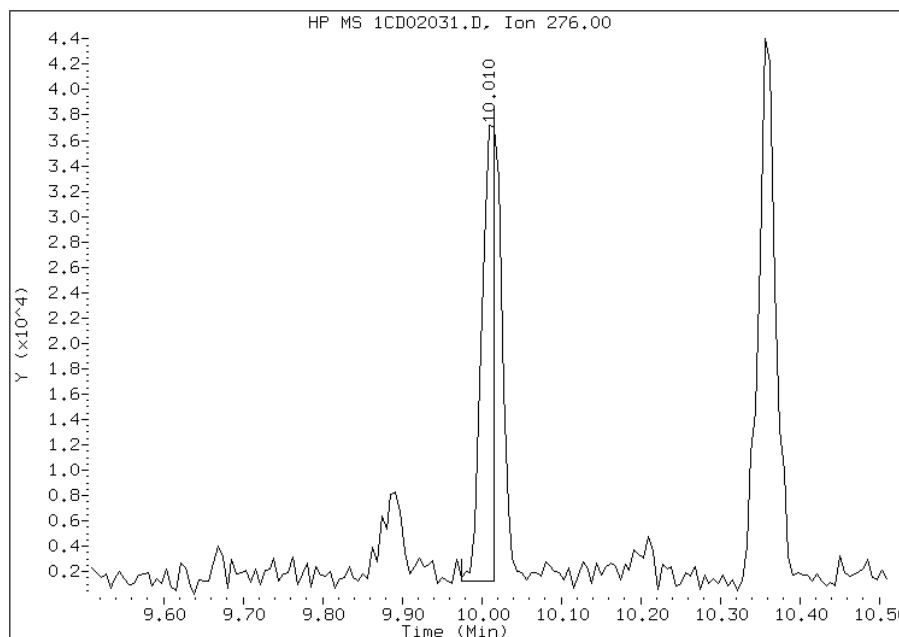
Processing Integration Results

RT: 10.01
Response: 61881
Amount: 2
Conc: 182



Manual Integration Results

RT: 10.01
Response: 42271
Amount: 1
Conc: 124



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:54
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy Batch No.: 134776

SDG No.: 68088632-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy Batch No.: 134776

SDG No.: 68088632-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy B

SDG No.: 68088632-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1 50
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1 50
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1 50
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1 50
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1 50
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1 50
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1 50
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1 50
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD

134776

N

2760

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:57
Operator : SCC
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)		1174200	40.0000	
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)		901777	40.0000	
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)		1723779	40.0000	
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)		5163	0.20000	0.1983
* 18 Chrysene-d12	240		7.798	7.798	(1.000)		2248468	40.0000	
* 23 Perylene-d12	264		9.015	9.015	(1.000)		2426654	40.0000	
2 Naphthalene	128		3.816	3.816	(1.003)		5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)		4328	0.20000	0.2122
4 1-Methylnaphthalene	142		4.310	4.310	(1.133)		3289	0.20000	0.1771
5 Acenaphthylene	152		4.804	4.804	(0.982)		7443	0.20000	0.2047
7 Acenaphthene	154		4.915	4.915	(1.005)		5407	0.20000	0.2392
9 Fluorene	166		5.233	5.233	(1.070)		5412	0.20000	0.1893
11 Phenanthrene	178		5.862	5.862	(1.003)		11408	0.20000	0.2288
12 Anthracene	178		5.898	5.898	(1.009)		10196	0.20000	0.2091
13 Carbazole	167		6.004	6.004	(1.027)		9564	0.20000	0.2207
15 Fluoranthene	202		6.704	6.704	(1.147)		11431	0.20000	0.2094
16 Pyrene	202		6.874	6.874	(0.882)		12023	0.20000	0.1989
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)		17074	0.20000	0.2631
19 Chrysene	228		7.815	7.815	(1.002)		15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252		8.656	8.656	(0.960)		13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252		8.674	8.674	(0.962)		13108	0.20000	0.2014
22 Benzo(a)pyrene	252		8.956	8.956	(0.993)		12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.233	(1.135)		12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.250	(1.137)		11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276		10.592	10.592	(1.175)		13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

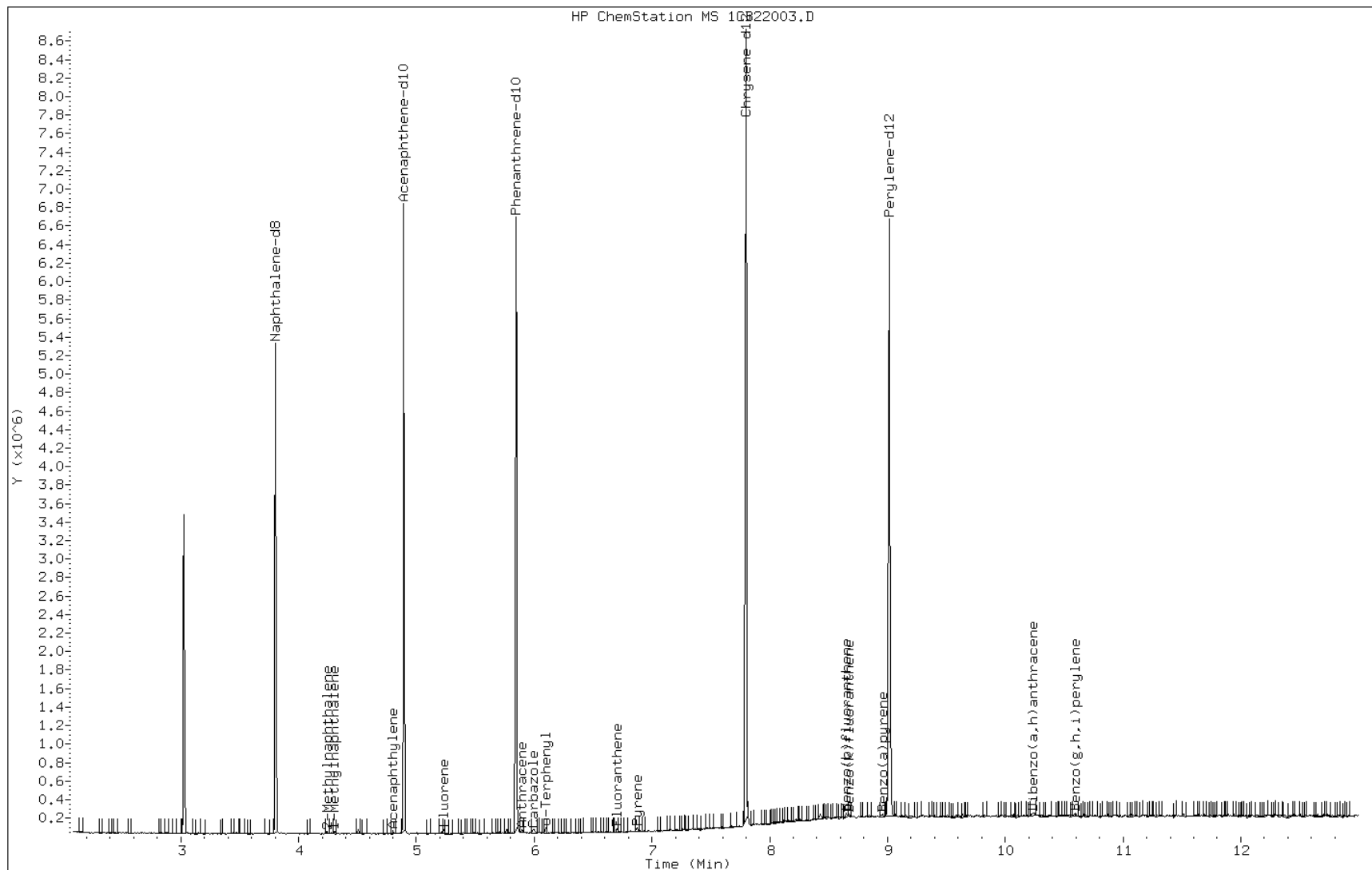
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

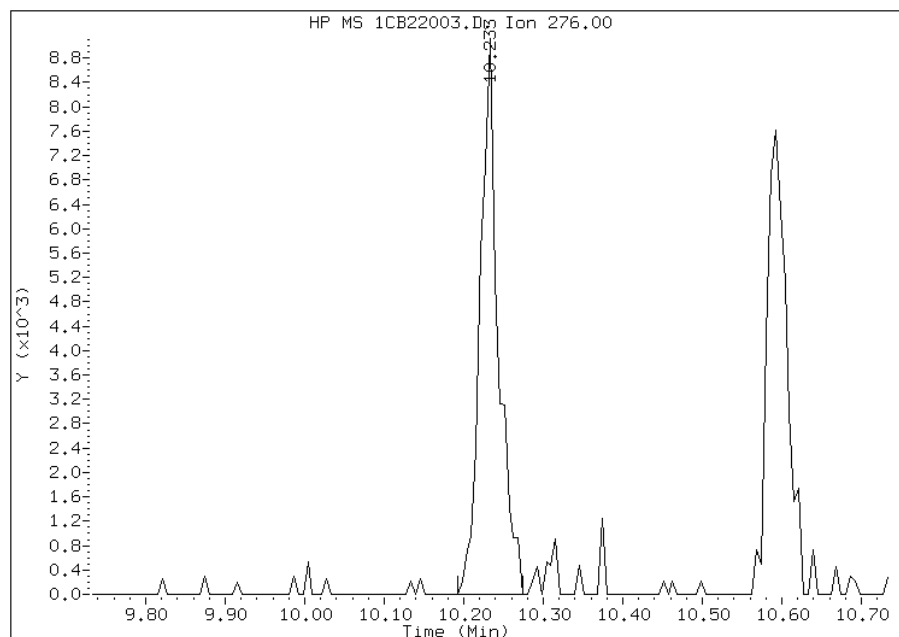


Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

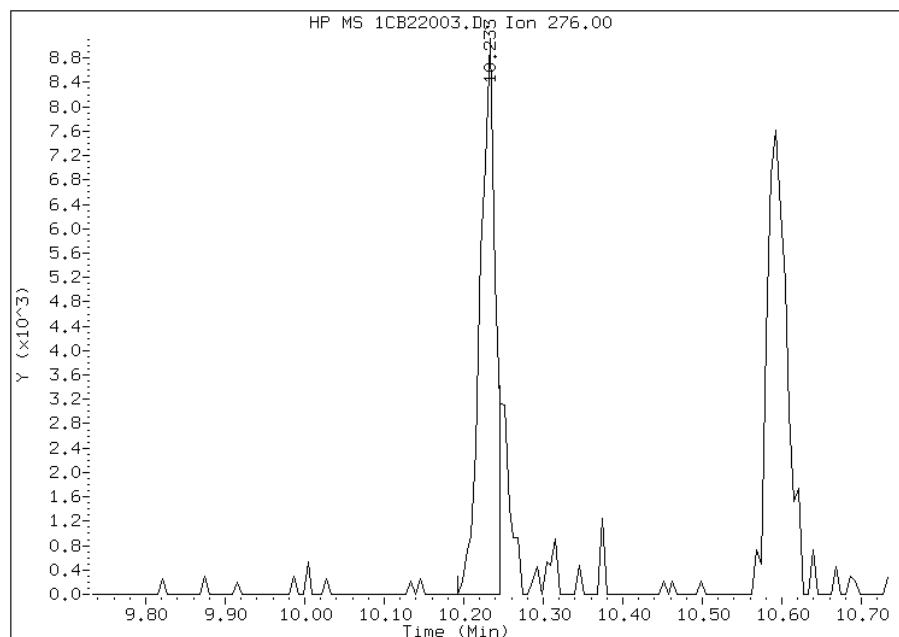
Processing Integration Results

RT: 10.23
Response: 14380
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.23
Response: 12119
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:16
Operator : SCC
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

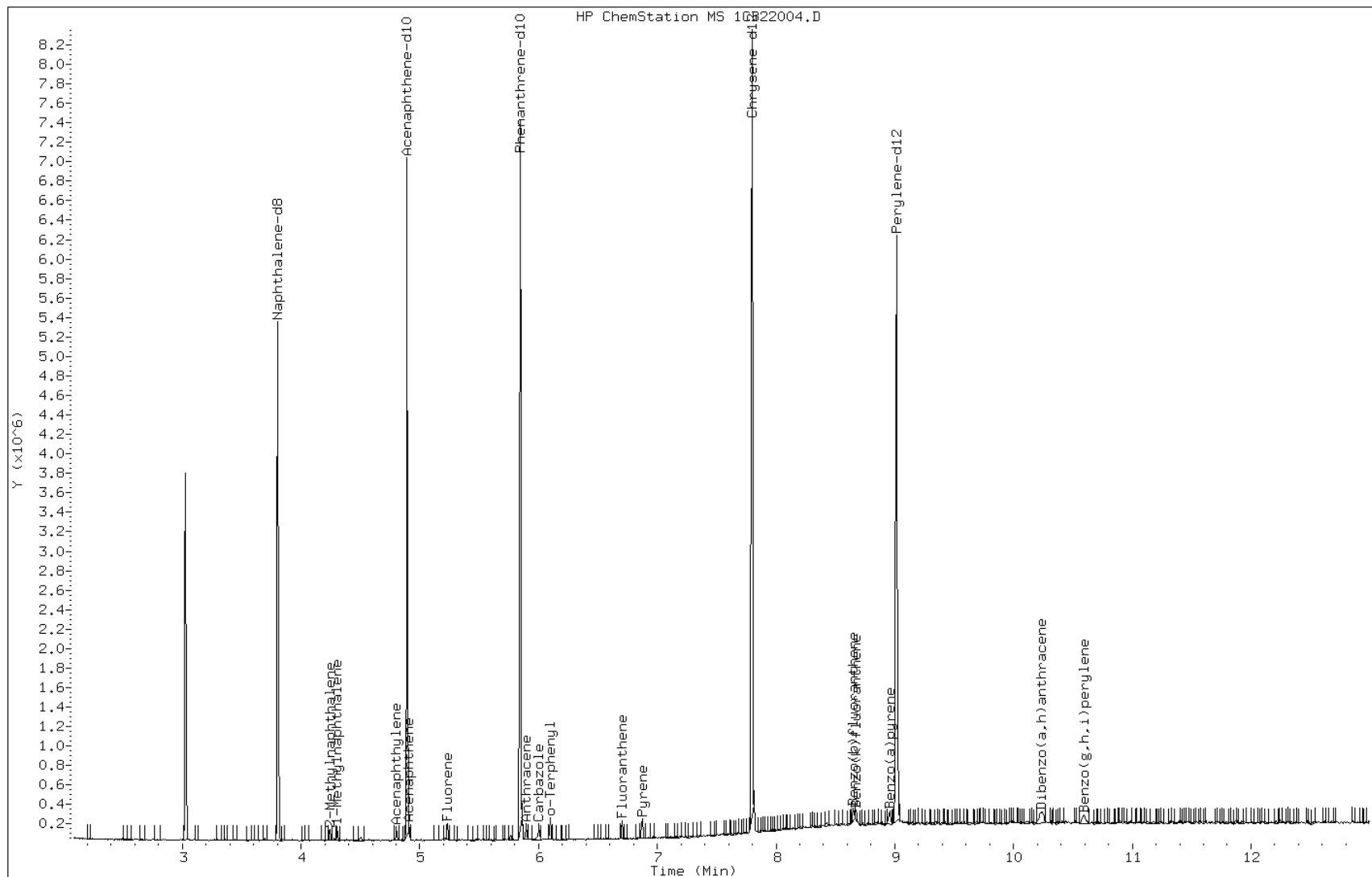
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

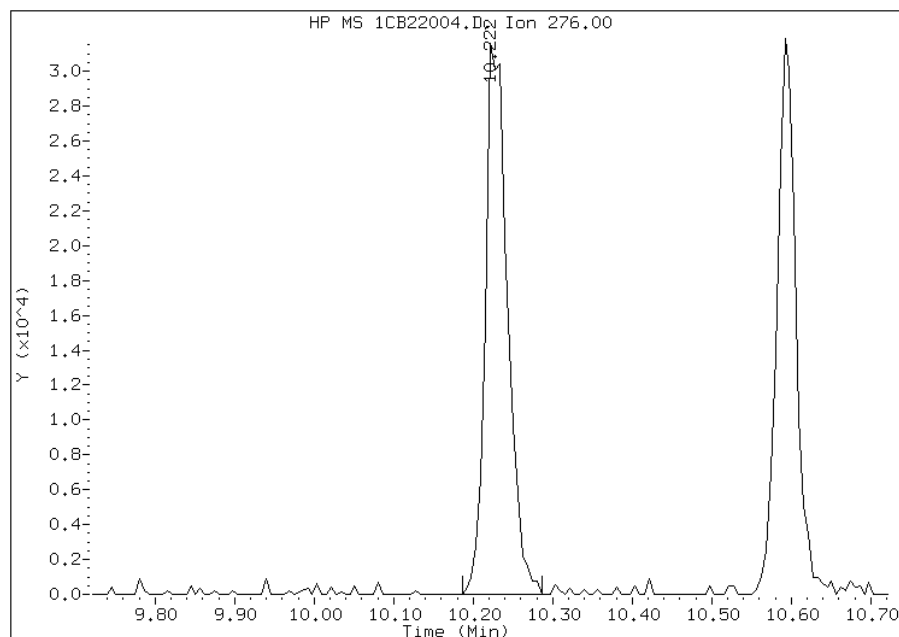


Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

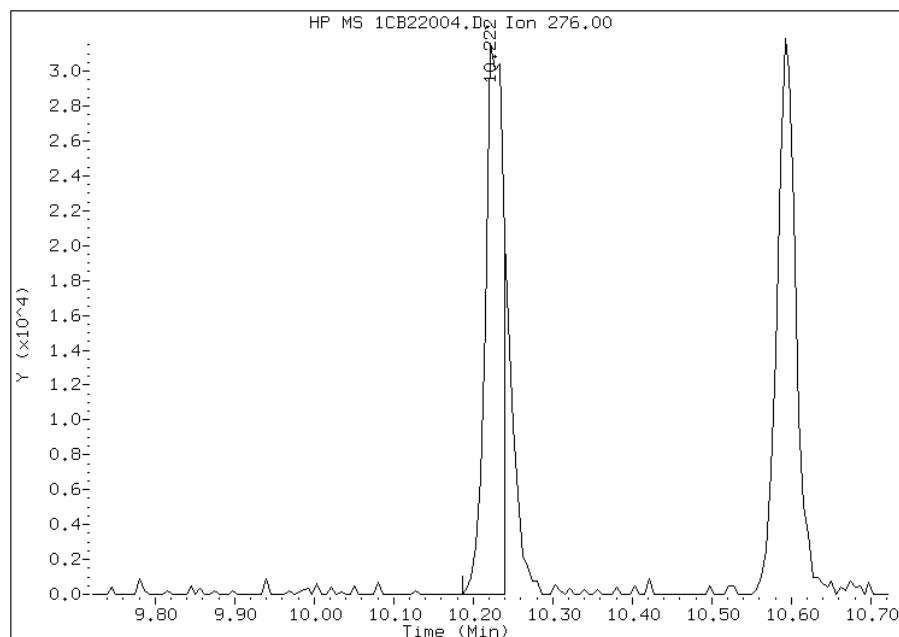
Processing Integration Results

RT: 10.22
Response: 61246
Amount: 1
Conc: 1



Manual Integration Results

RT: 10.22
Response: 48940
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ug/ml)	(ug/ml)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000		
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000		
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000		
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671	
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000		
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000		
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275	
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771	
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694	
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932	
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139	
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663	
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147	
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249	
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685	
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569	
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098	
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043	
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756	
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390	
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861	
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032	
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)	
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366	
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287	

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

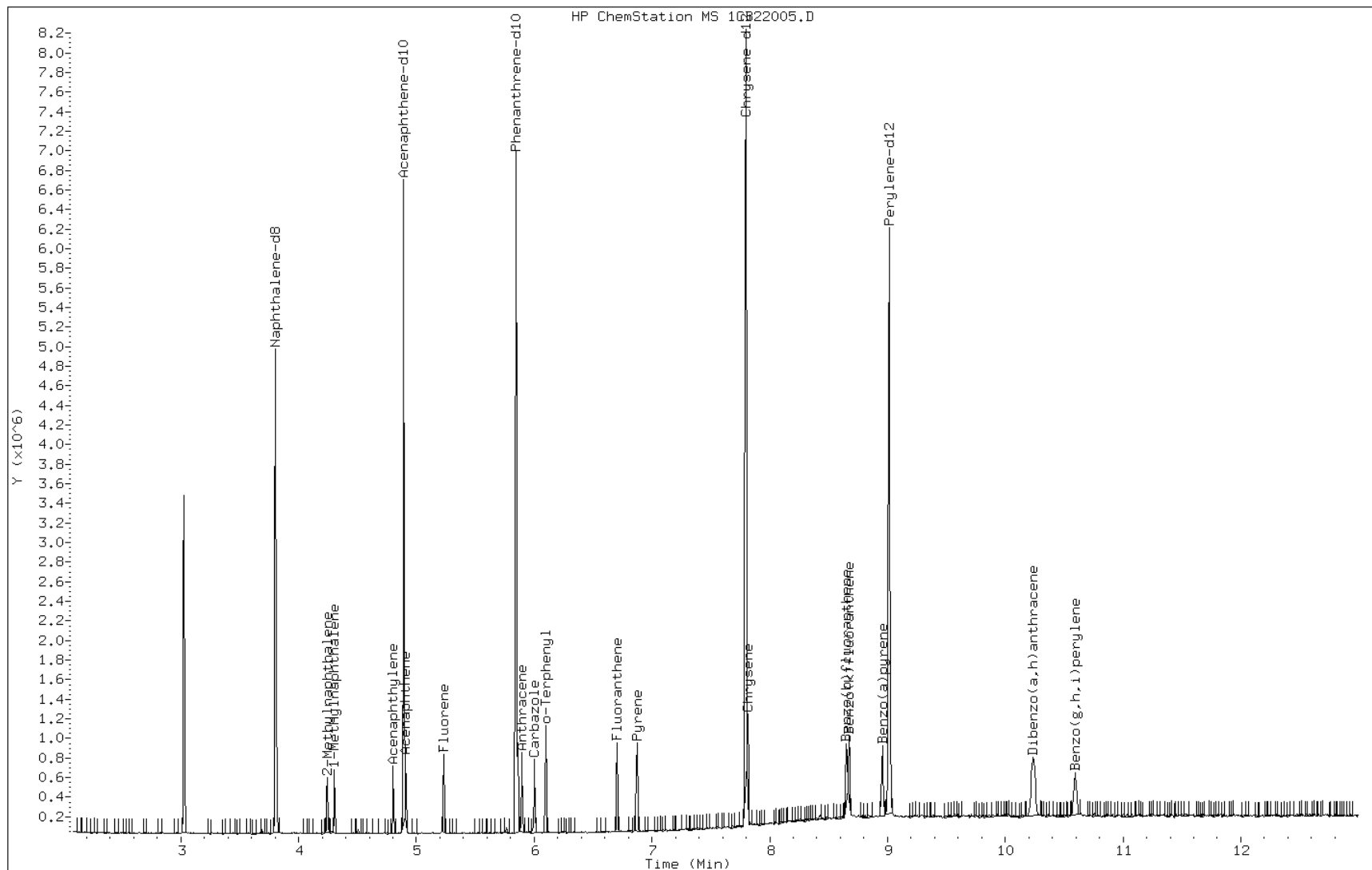
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

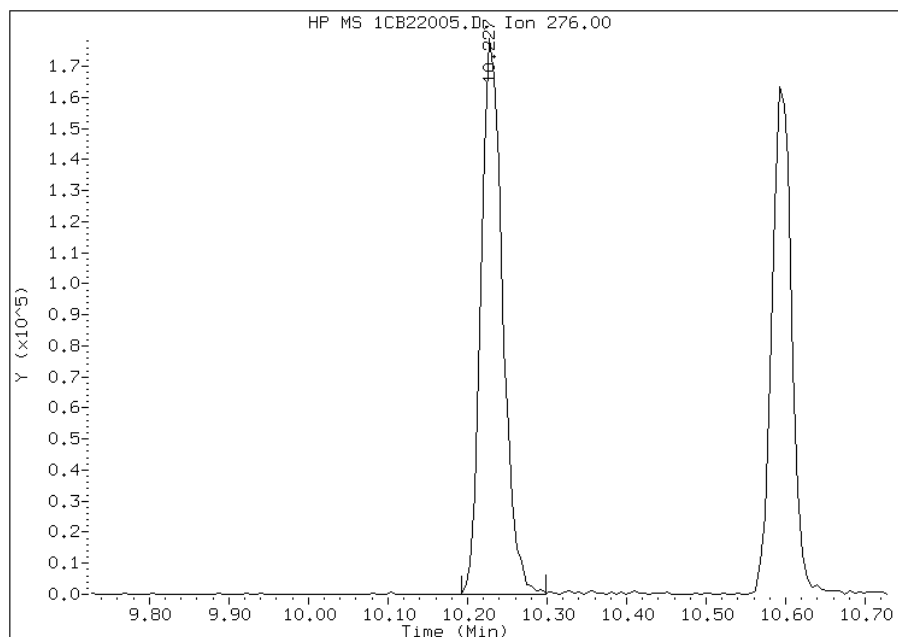


Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

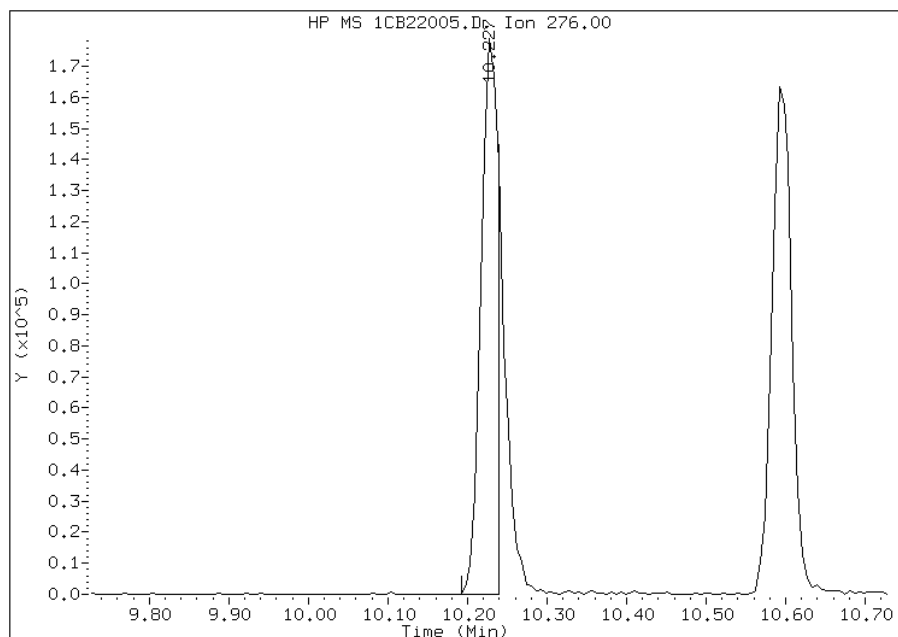
Processing Integration Results

RT: 10.23
Response: 336913
Amount: 6
Conc: 6



Manual Integration Results

RT: 10.23
Response: 267436
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

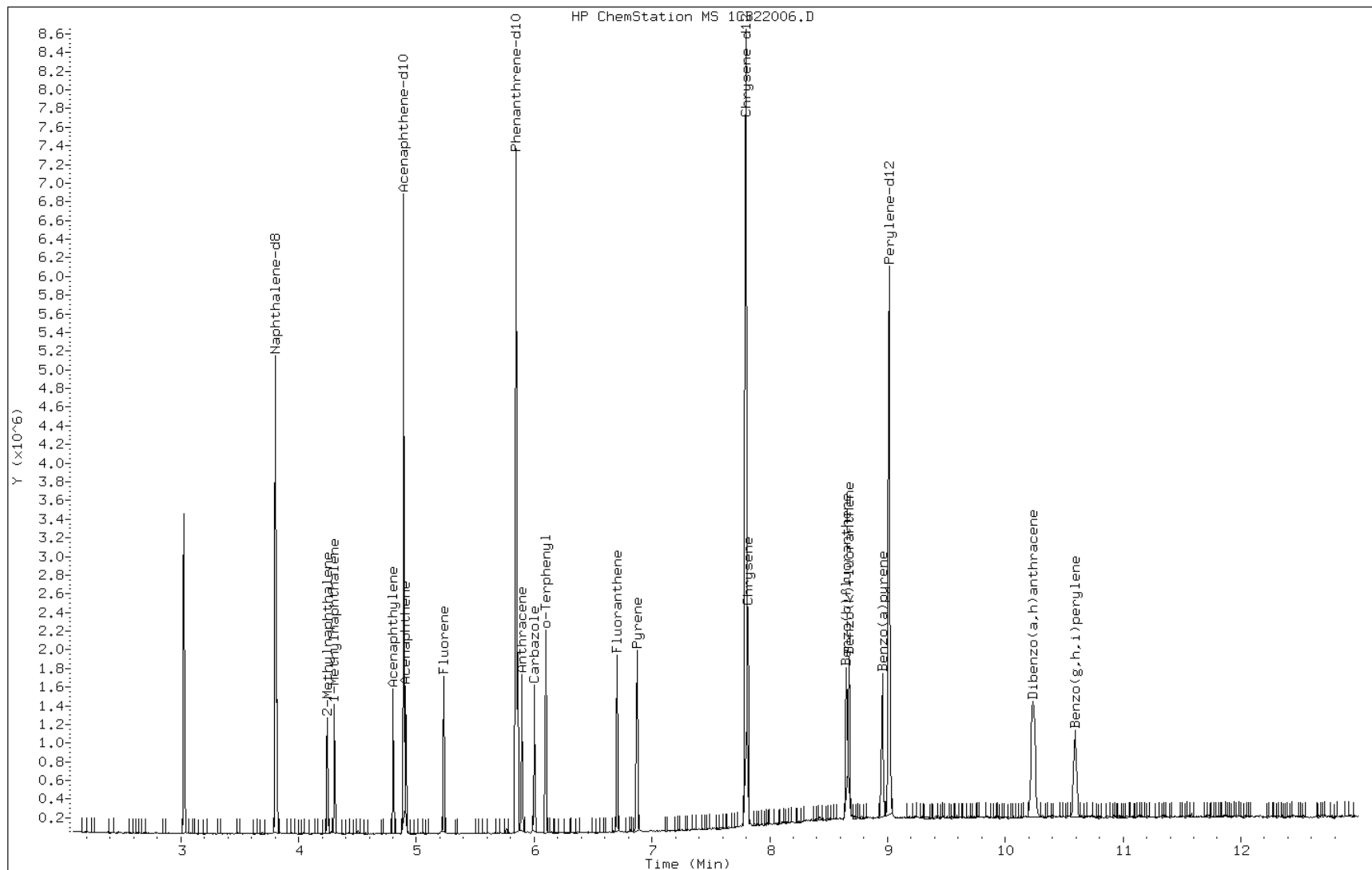
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

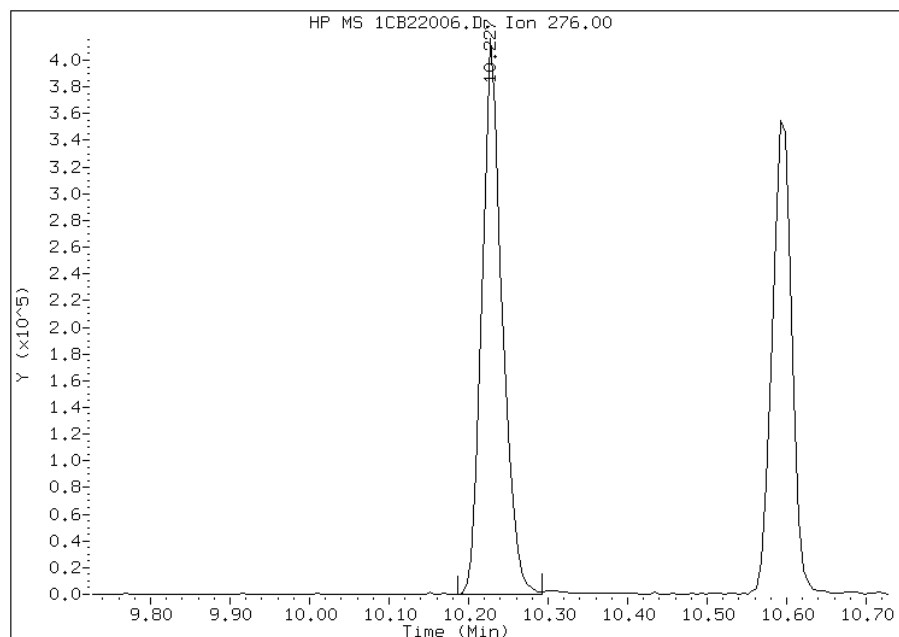


Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

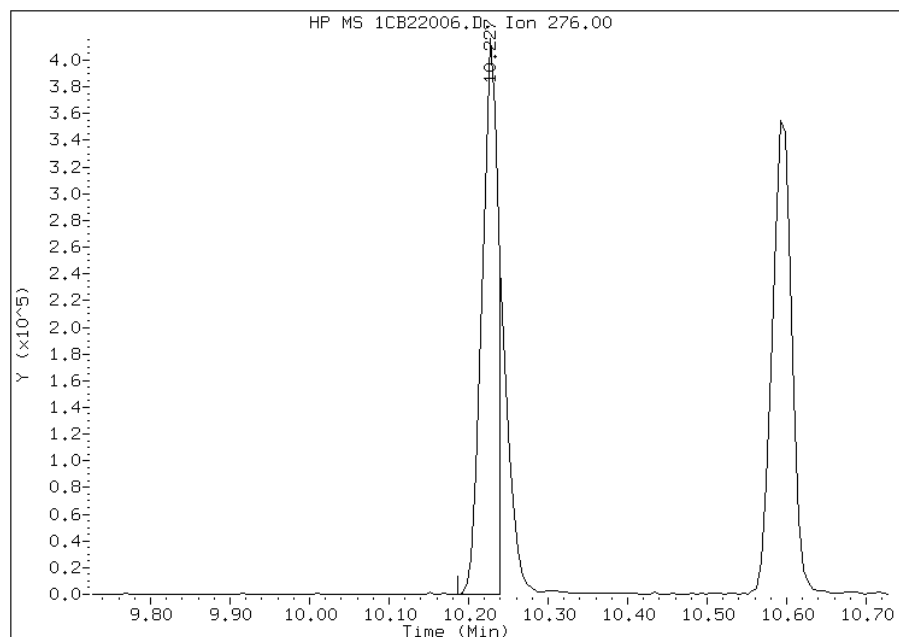
Processing Integration Results

RT: 10.23
Response: 727358
Amount: 13
Conc: 13



Manual Integration Results

RT: 10.23
Response: 582935
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22007.D

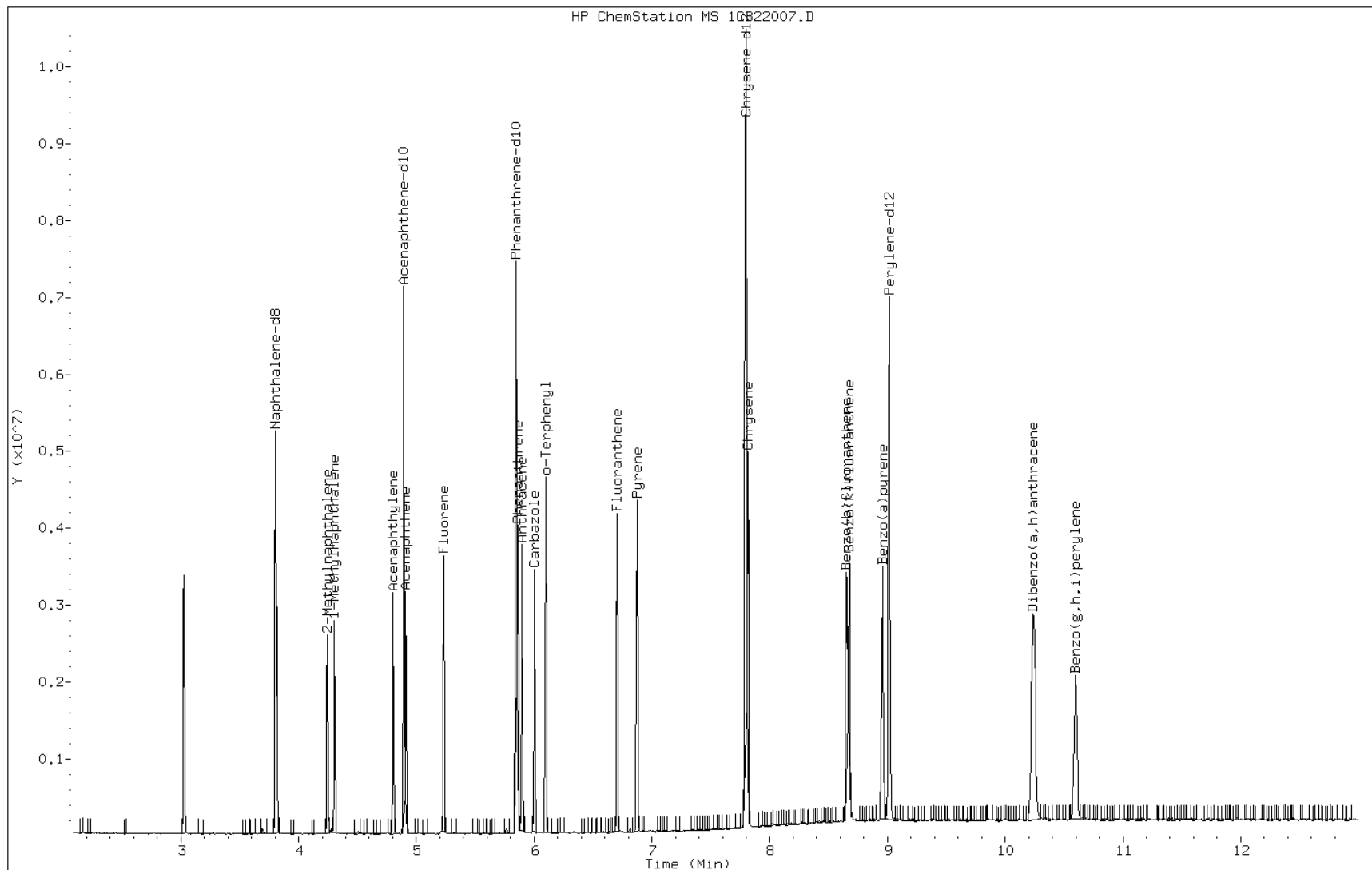
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

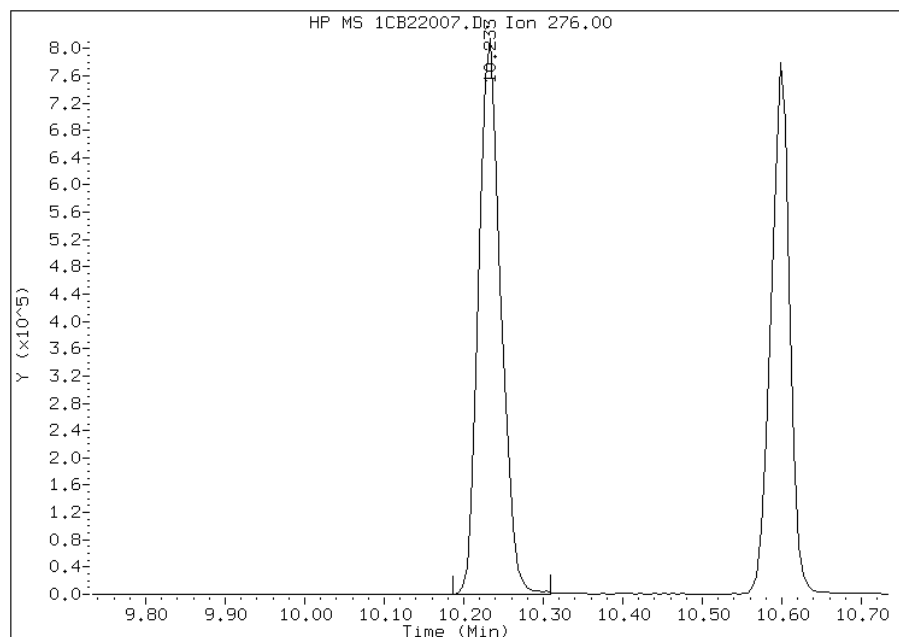


Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

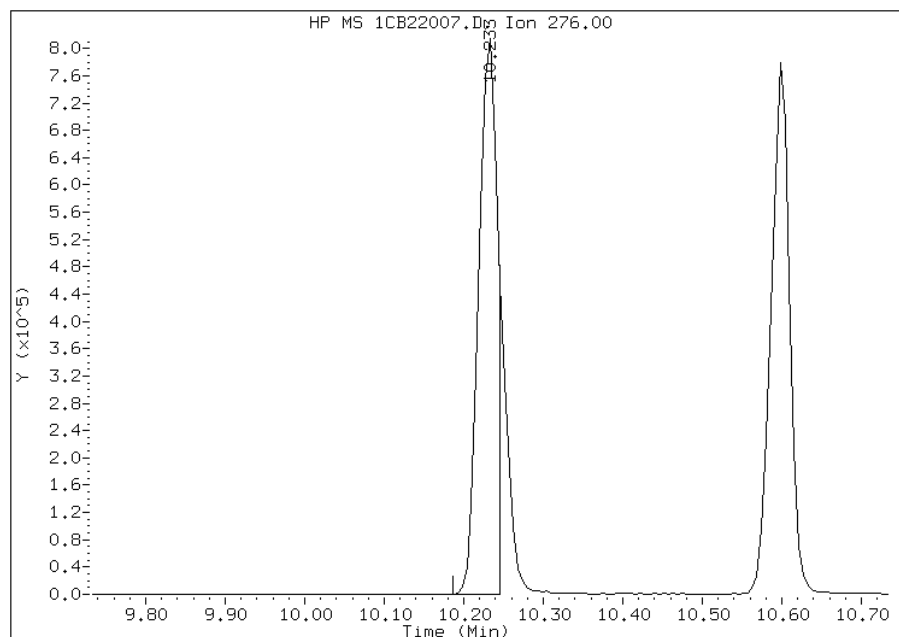
Processing Integration Results

RT: 10.23
Response: 1569498
Amount: 25
Conc: 25



Manual Integration Results

RT: 10.23
Response: 1327322
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS			
		QUANT	SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000		
*	6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000		
*	10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000		
\$	14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038	
*	18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000		
*	23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000		
	2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550	
	3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553	
	4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237	
	5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009	
	7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928	
	9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894	
	11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256	
	12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388	
	13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337	
	15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373	
	16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043	
	17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424	
	19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420	
	20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993	
	21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566	
	22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547	
	24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)	
	25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363	
	26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402	

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

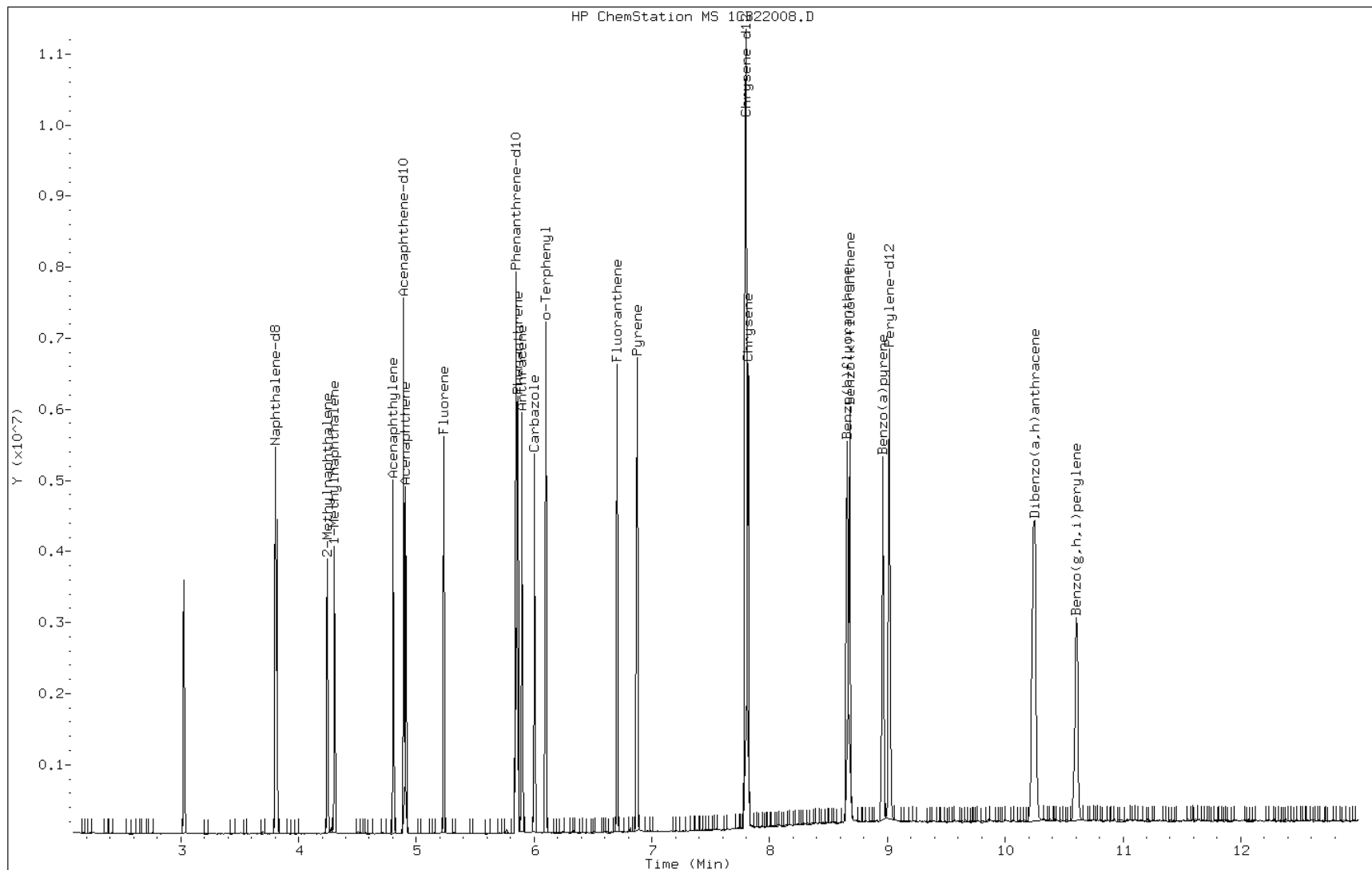
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

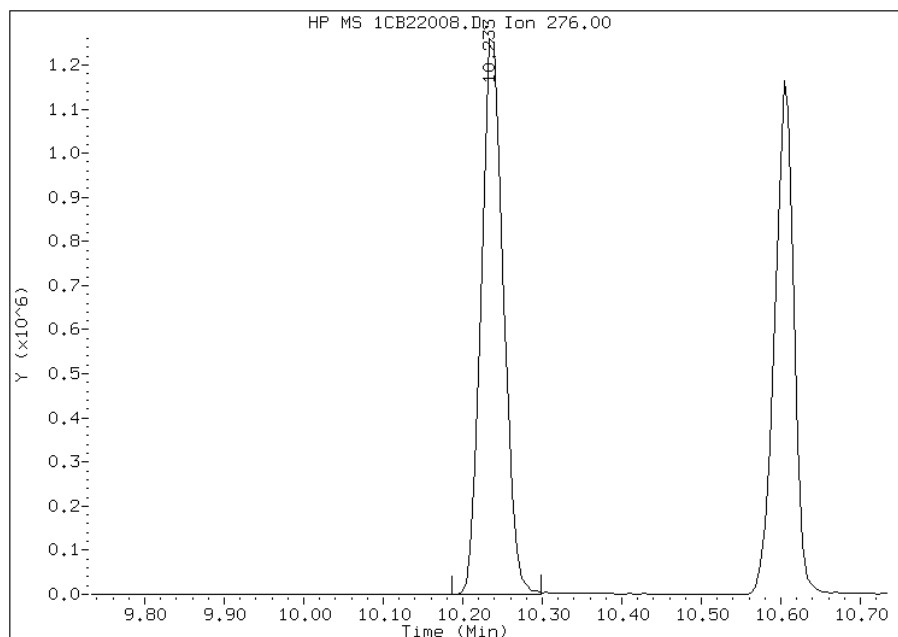


Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

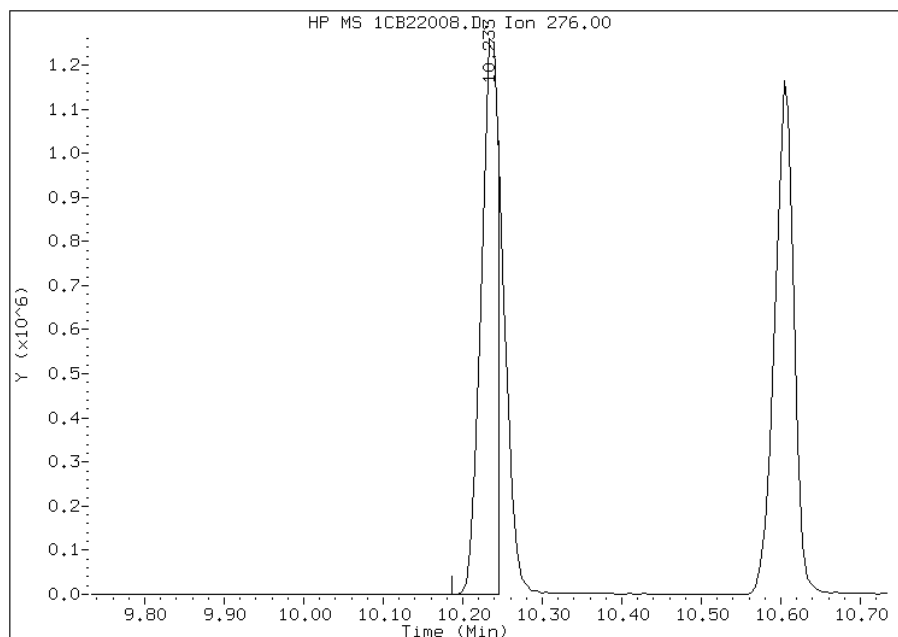
Processing Integration Results

RT: 10.23
Response: 2435528
Amount: 36
Conc: 36



Manual Integration Results

RT: 10.23
Response: 1907725
Amount: 29
Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

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

Data File: 1CB22009.D

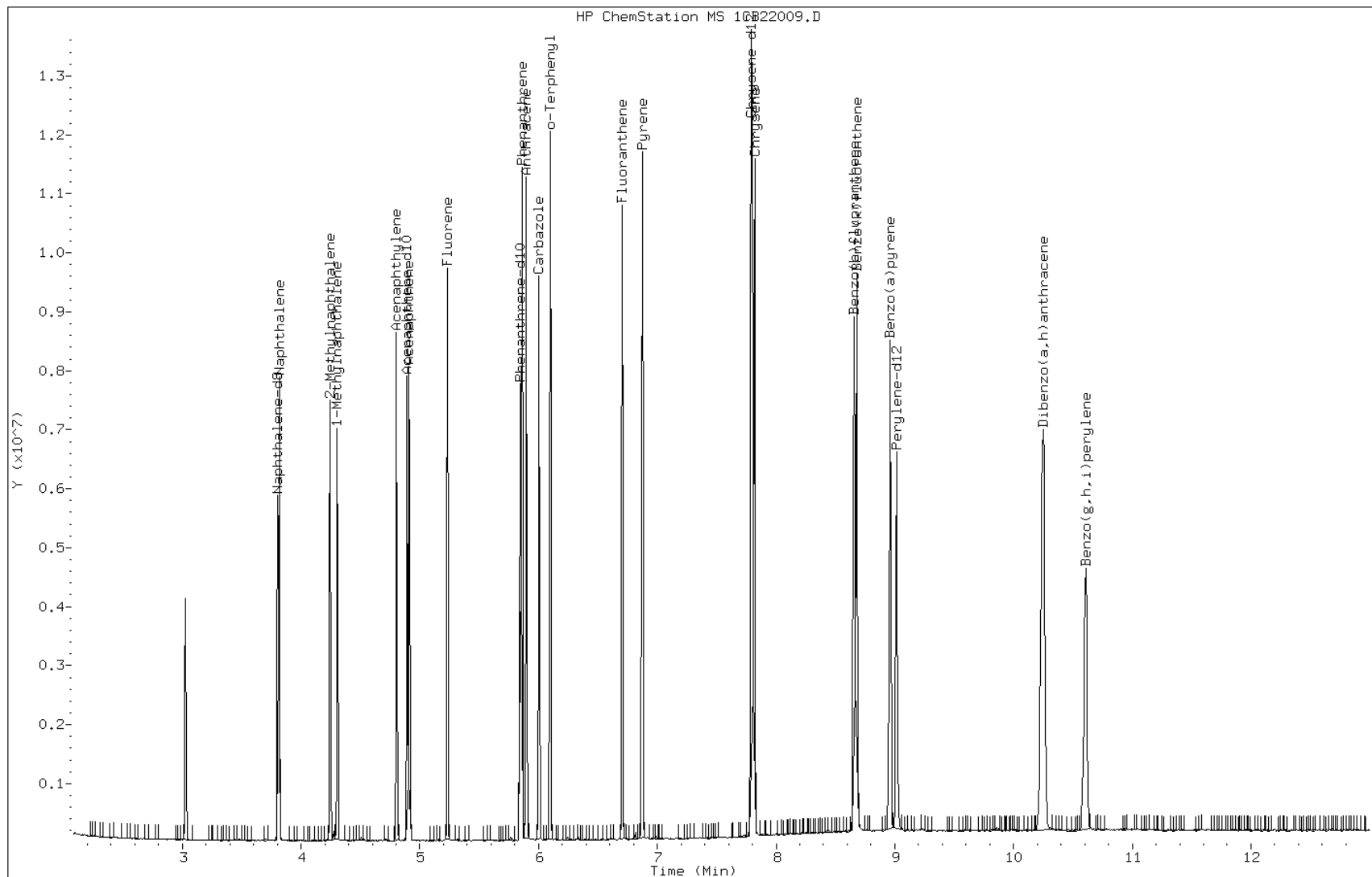
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

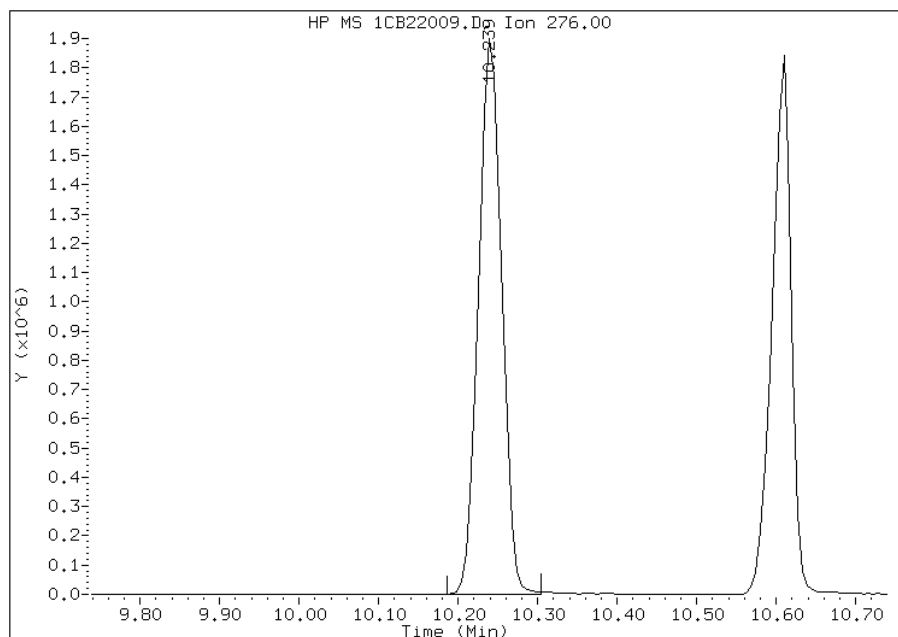


Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

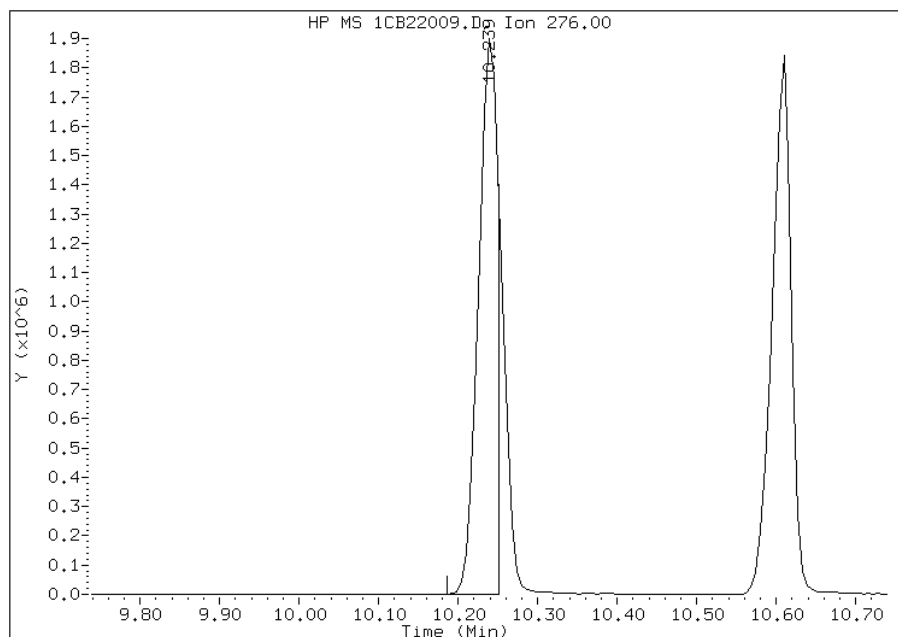
Processing Integration Results

RT: 10.24
Response: 3825990
Amount: 51
Conc: 51



Manual Integration Results

RT: 10.24
Response: 3187834
Amount: 51
Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy Batch No.: 136048

SDG No.: 68088632-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7		15.0			
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1		15.0			
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6		15.0			
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8		15.0			
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000				0.9993		0.9900
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6		15.0			
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9		15.0			
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9		15.0			
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1		15.0			
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4		15.0			
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8		15.0			
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000				0.9997		0.9900
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8		15.0			
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy Batch No.: 136048

SDG No.: 68088632-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1		15.0			
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2		15.0			
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7		15.0			
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0		15.0			
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000				0.9966		0.9900

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa

Job No.: 680-88632-3

Analy B

SDG No.: 68088632-3

Instrument ID: BSMC5973

GC Column: DB-5MS

ID: 250 (um)

Heated

Calibration Start Date: 04/02/2013 13:26

Calibration End Date: 04/02/2013 15:15

Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1 50
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1 50
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1 50
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1 50
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1 50
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1 50
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1 50
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1 50
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1 50
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD

Lin = Linear ISTD

136048

N

2859

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
Lab Smp Id: IC1
Inj Date : 02-APR-2013 13:26
Operator : SCC
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
\$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(H)

QC Flag Legend

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

Data File: 1CD02005.D

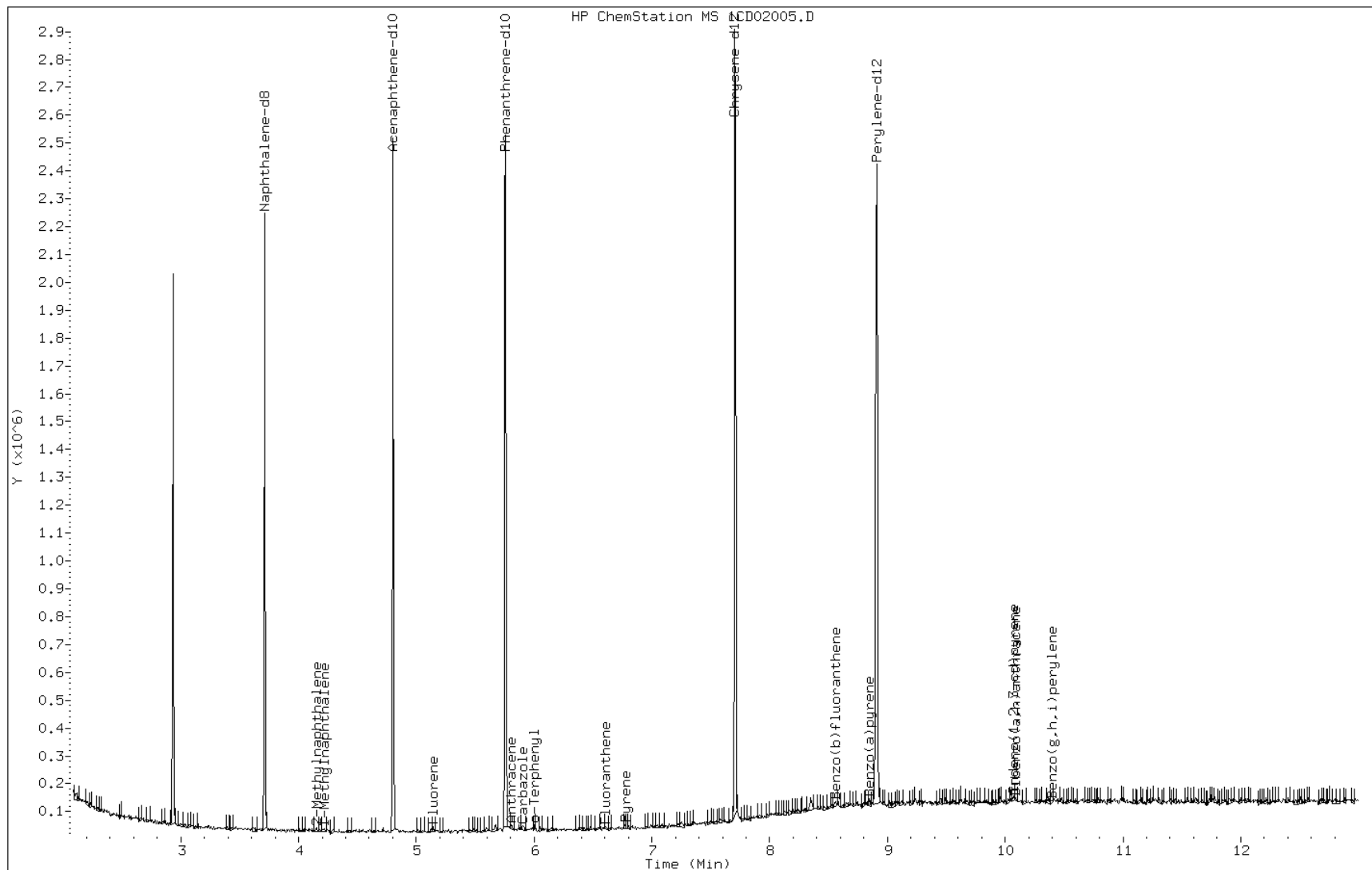
Date: 02-APR-2013 13:26

Client ID:

Instrument: BSMC5973.i

Sample Info: IC1

Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

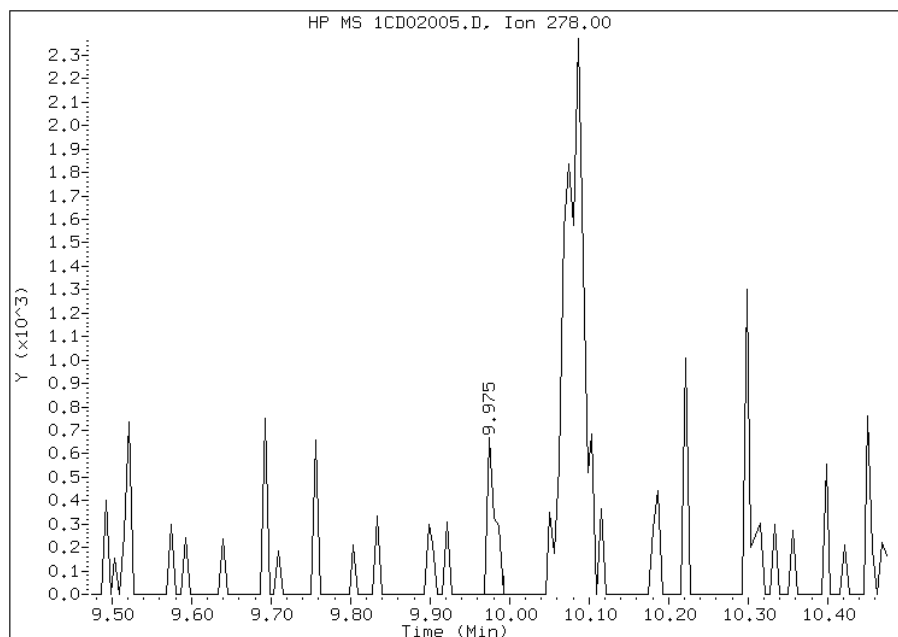
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



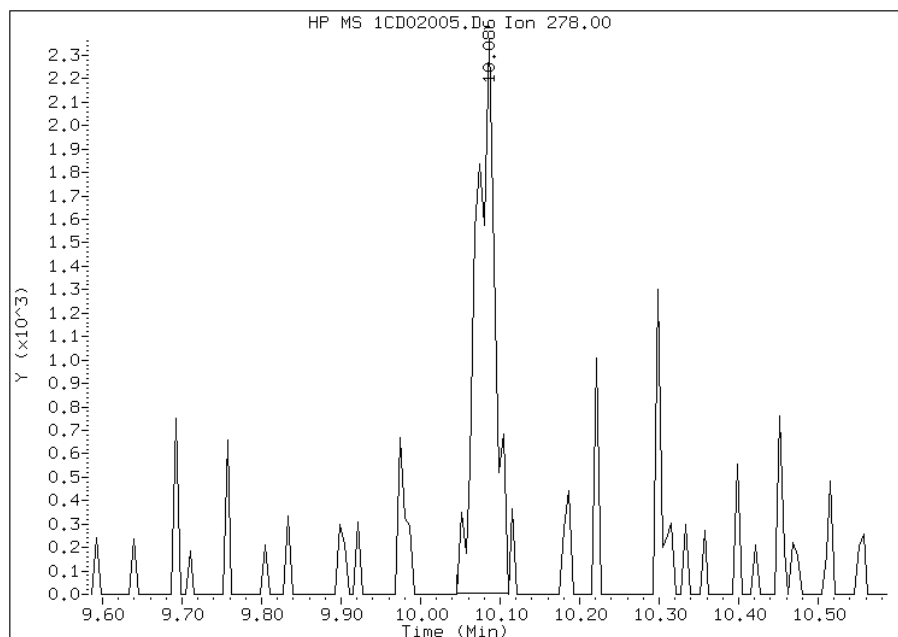
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
Lab Smp Id: IC2
Inj Date : 02-APR-2013 13:44
Operator : SCC
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
* 23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

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

Data File: 1CD02006.D

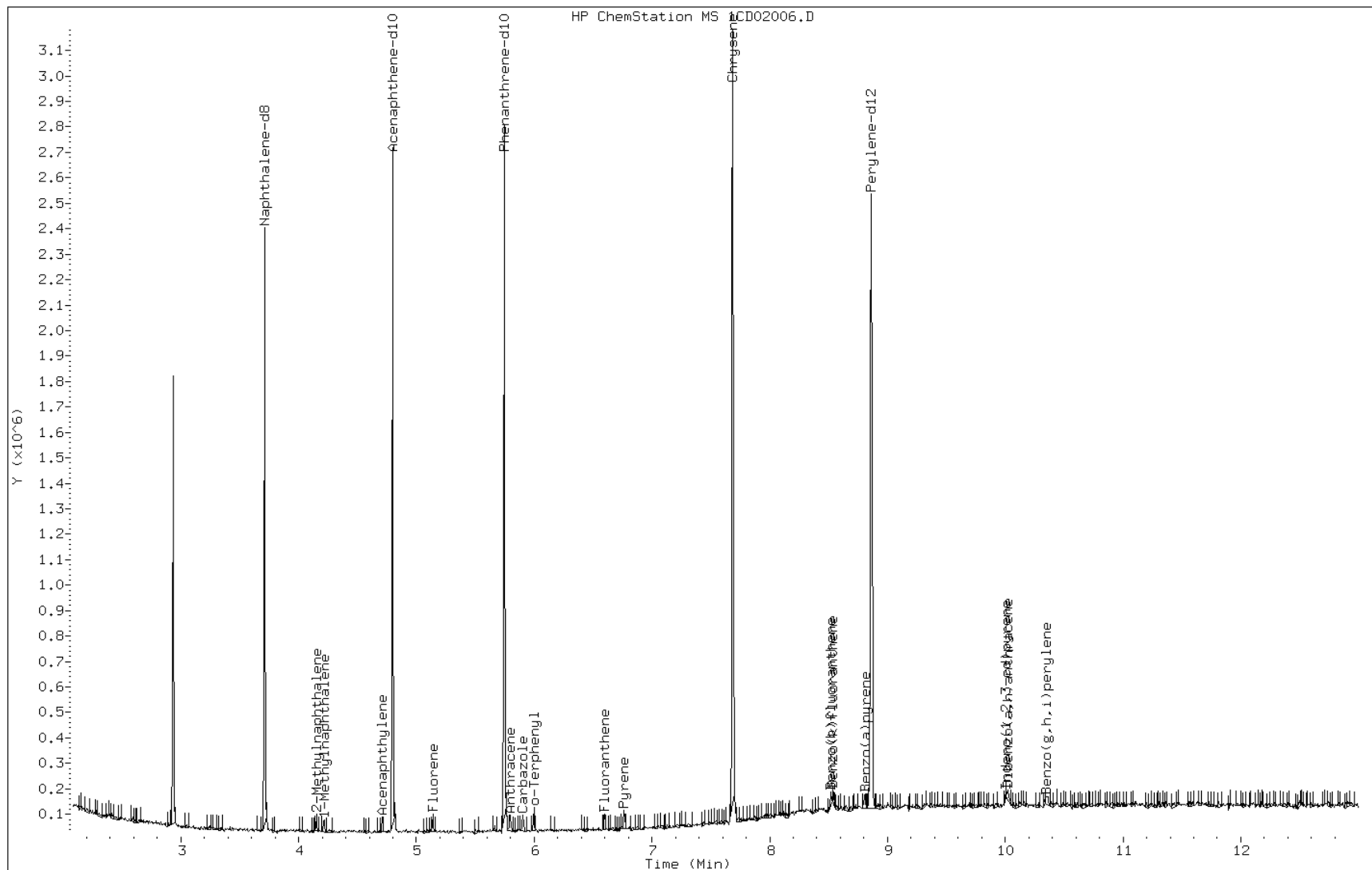
Date: 02-APR-2013 13:44

Client ID:

Instrument: BSMC5973.i

Sample Info: IC2

Operator: SCC

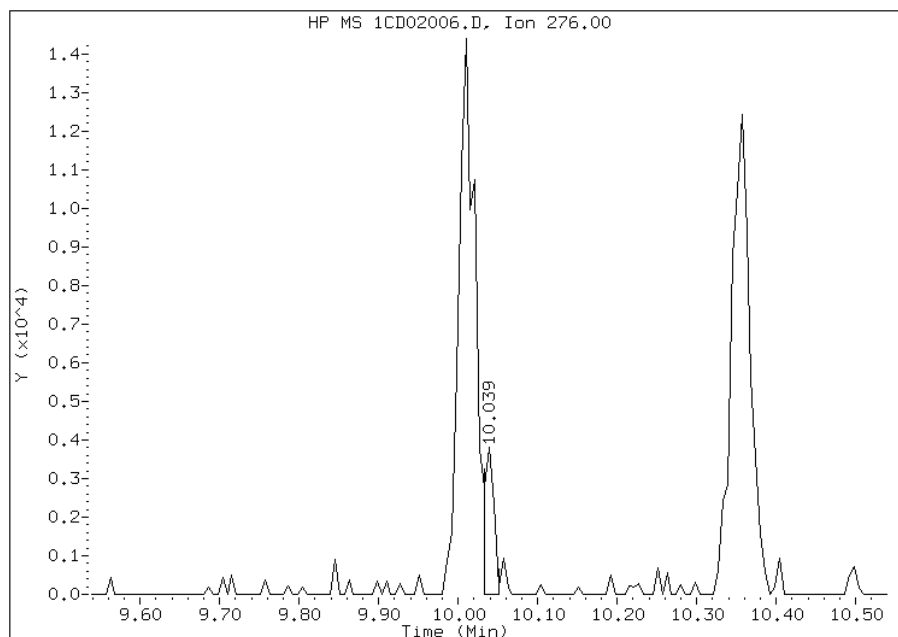


Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

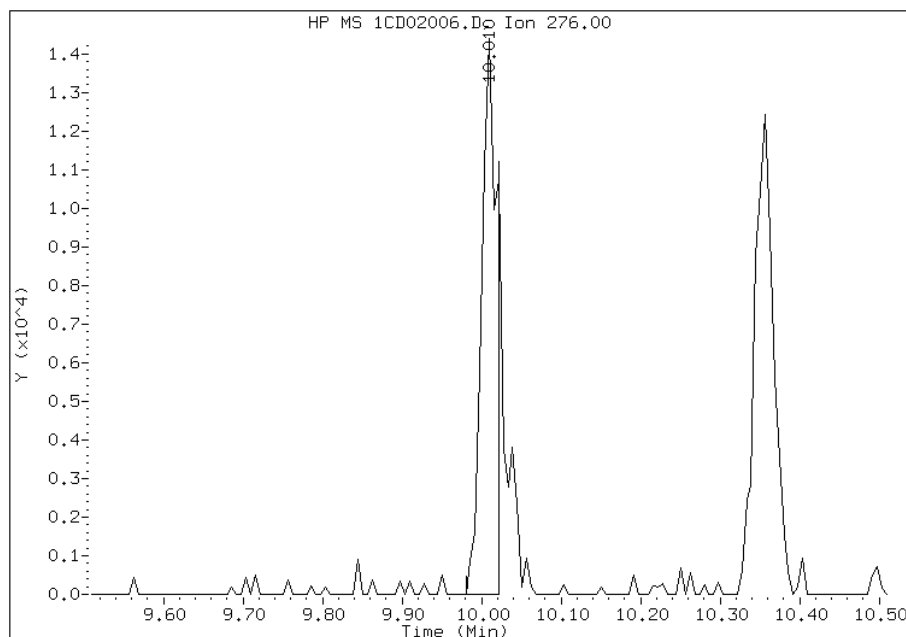
Processing Integration Results

RT: 10.04
Response: 3225
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.01
Response: 19198
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(H)

QC Flag Legend

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

Data File: 1CD02007.D

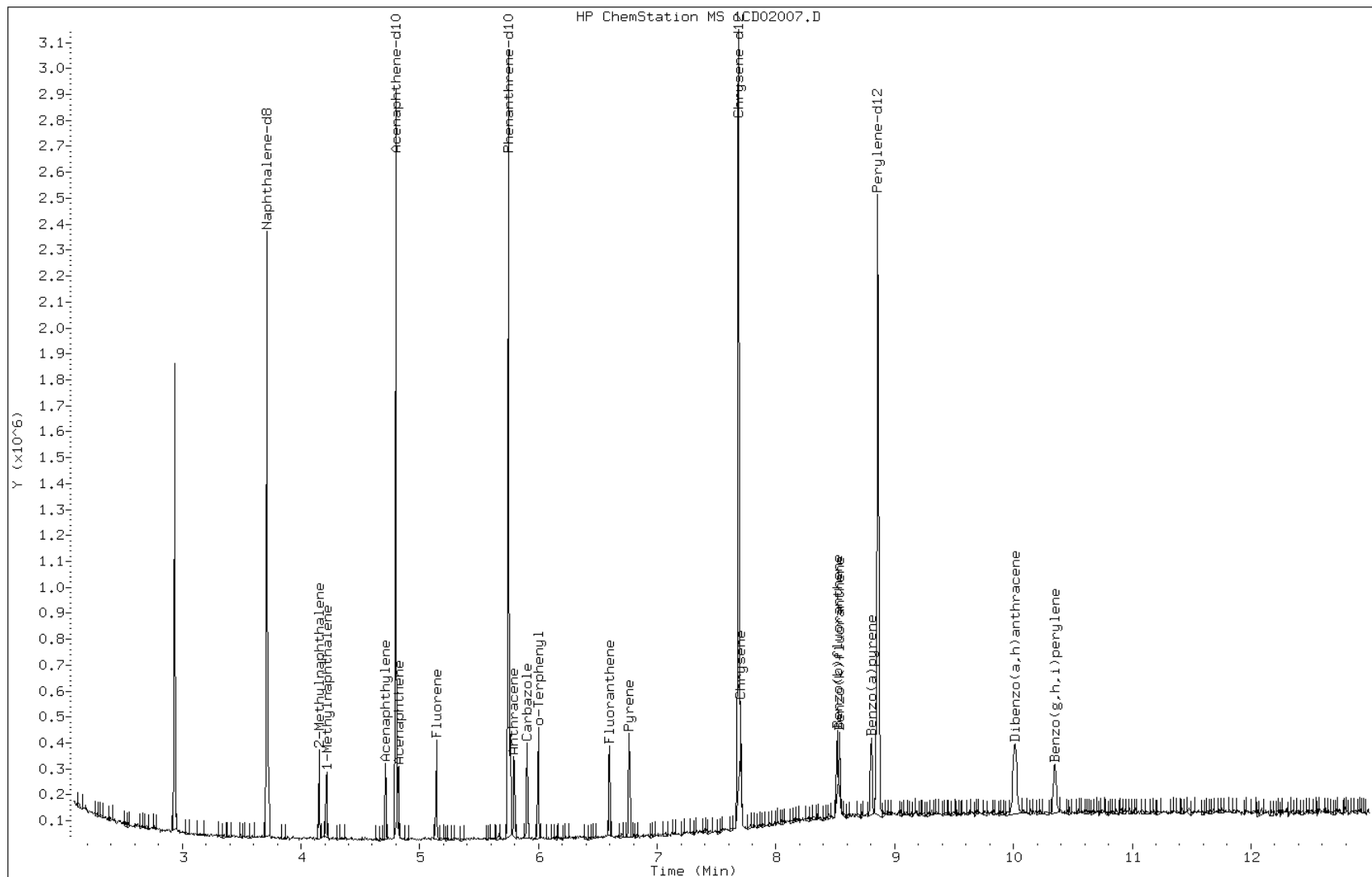
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC

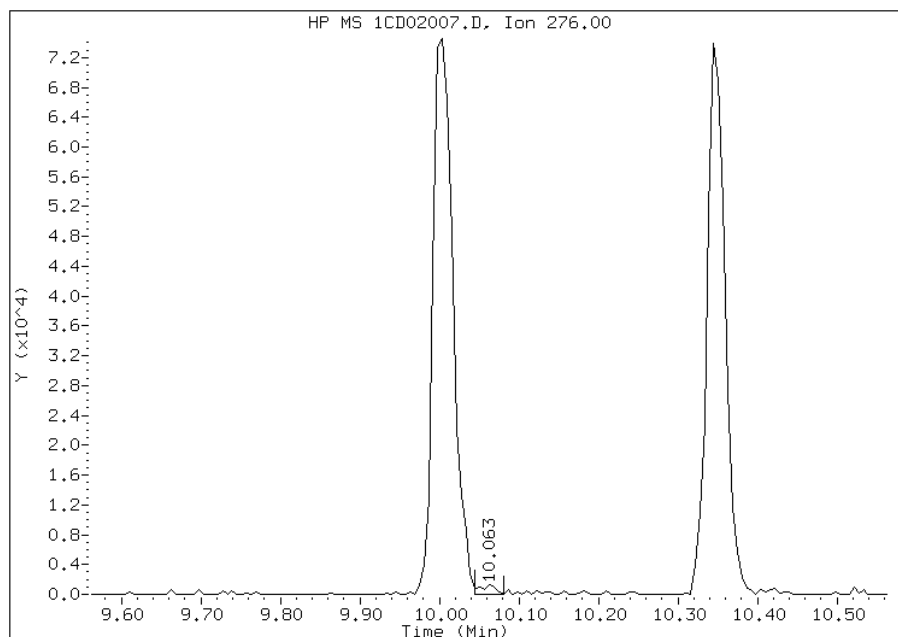


Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

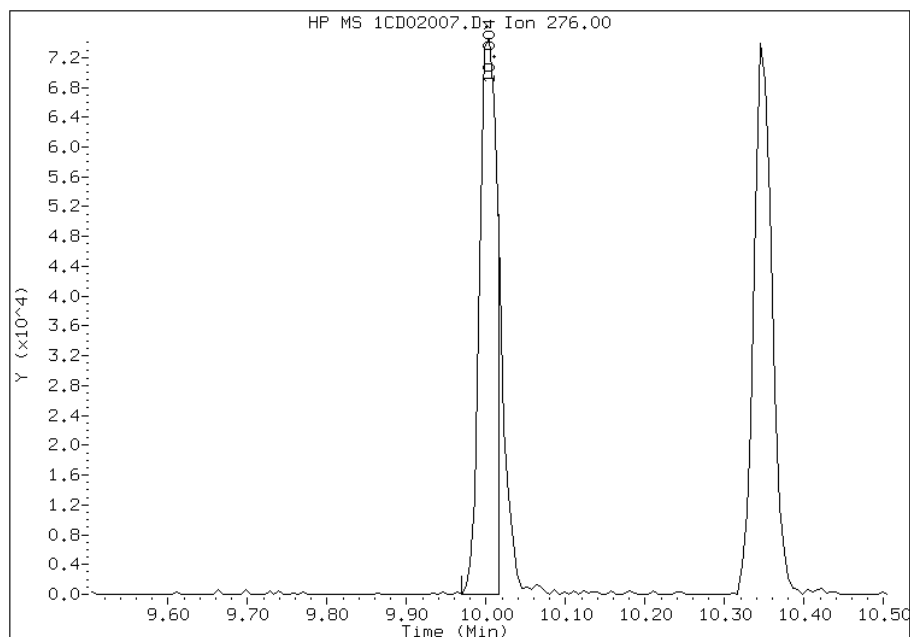
Processing Integration Results

RT: 10.06
Response: 1809
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.00
Response: 114519
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

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

Data File: 1CD02008.D

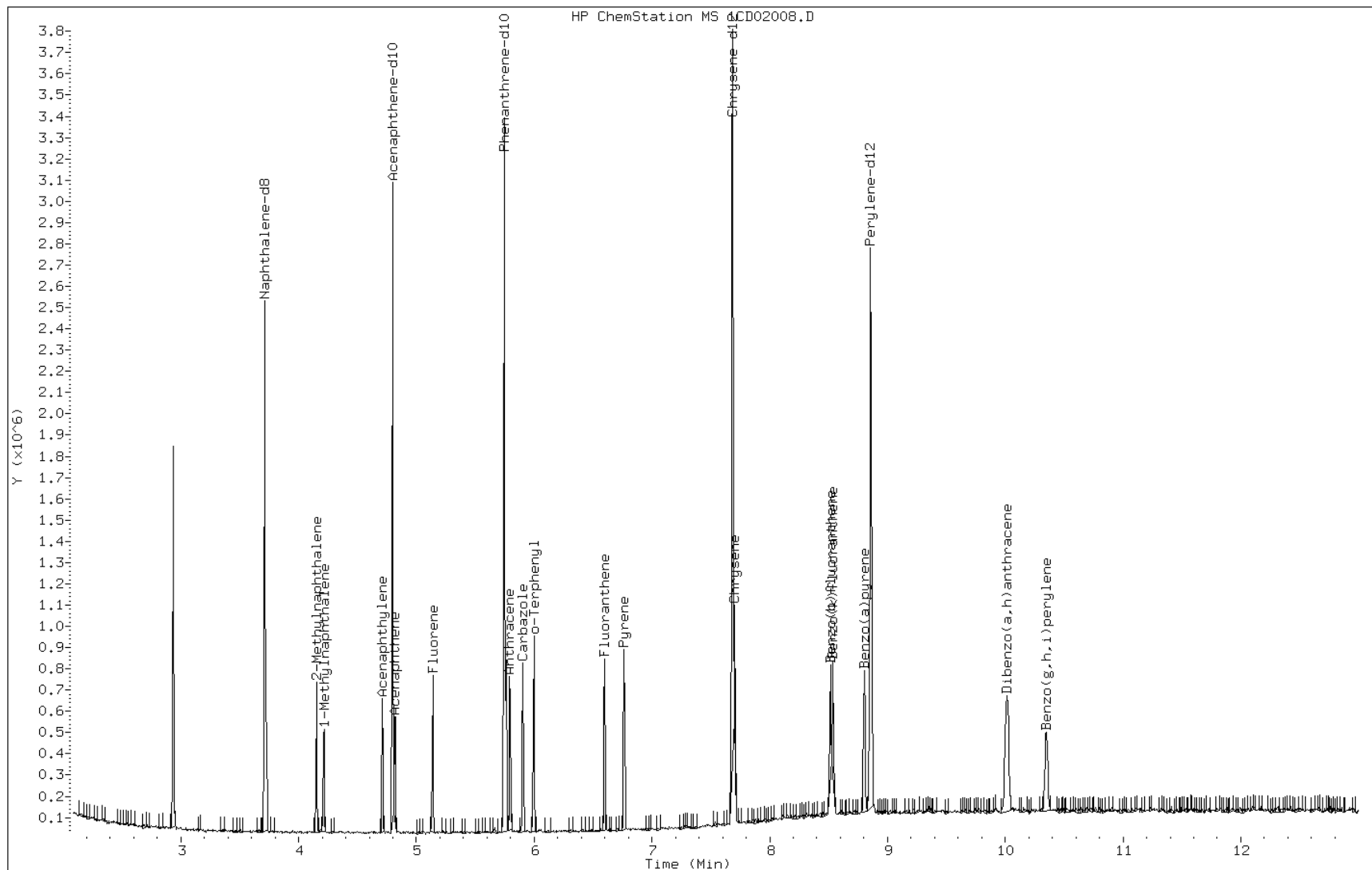
Date: 02-APR-2013 14:20

Client ID:

Instrument: BSMC5973.i

Sample Info: IC4

Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

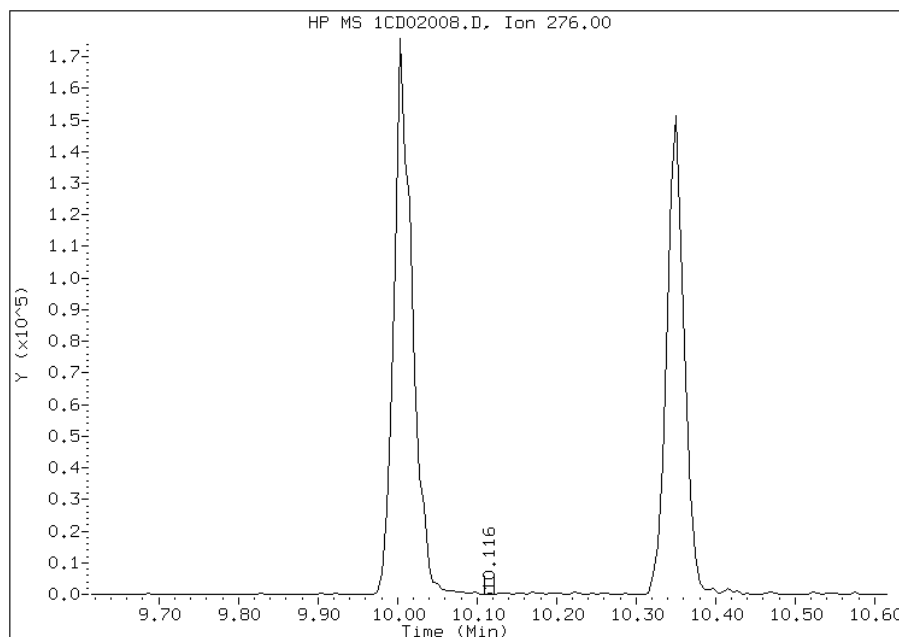
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



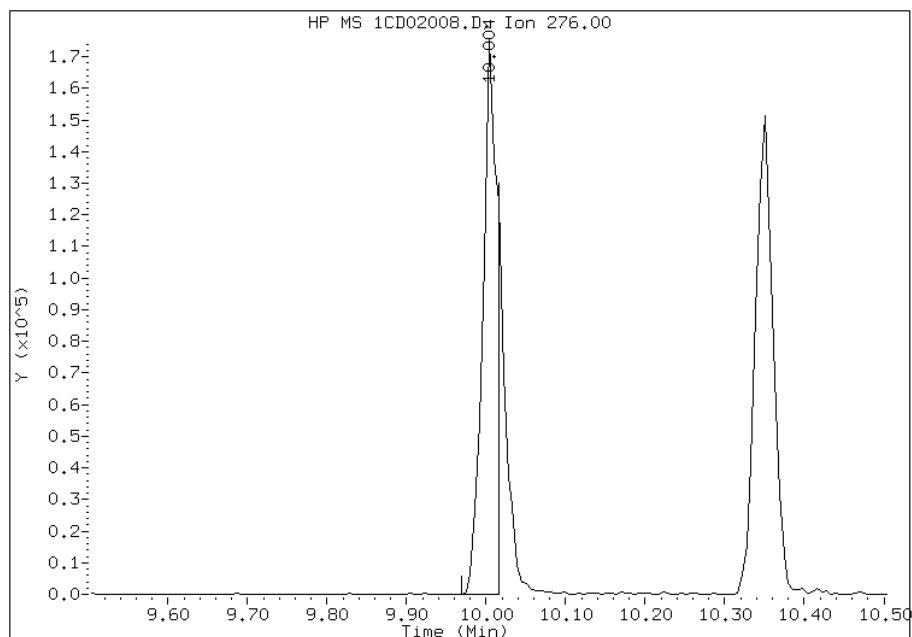
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
Lab Smp Id: IC5
Inj Date : 02-APR-2013 14:39
Operator : SCC
Smp Info : IC5
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02009.D

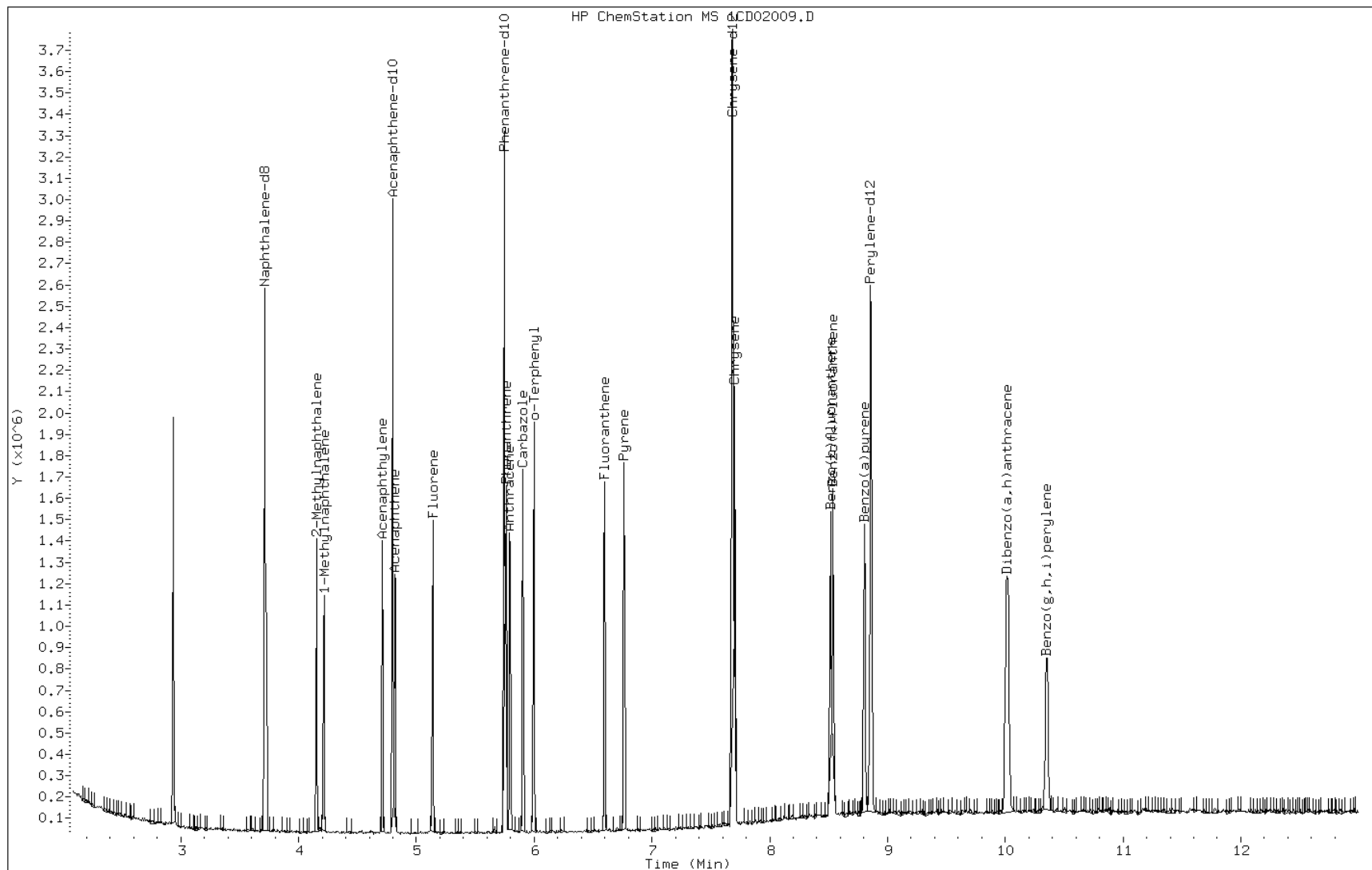
Date: 02-APR-2013 14:39

Client ID:

Instrument: BSMC5973.i

Sample Info: IC5

Operator: SCC

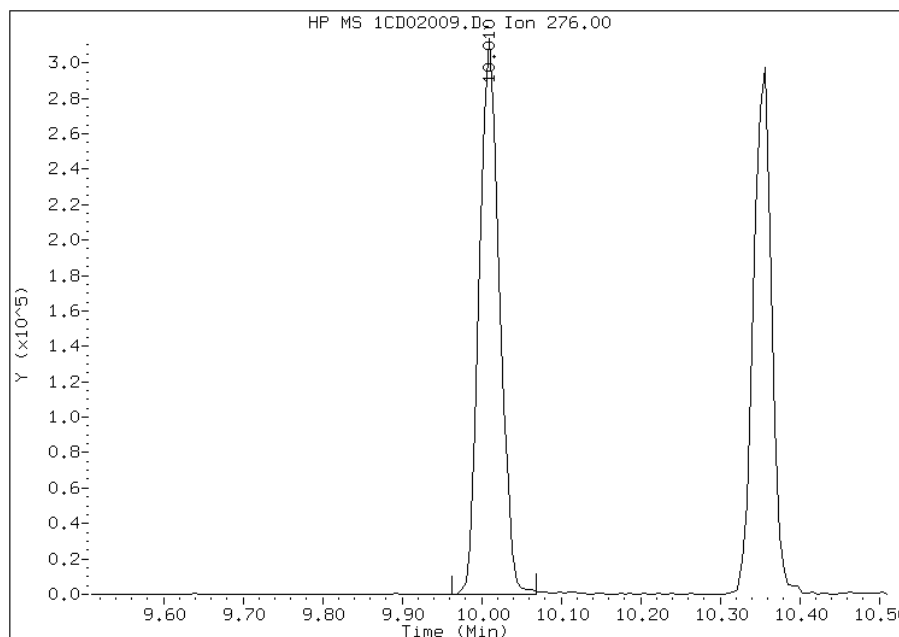


Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

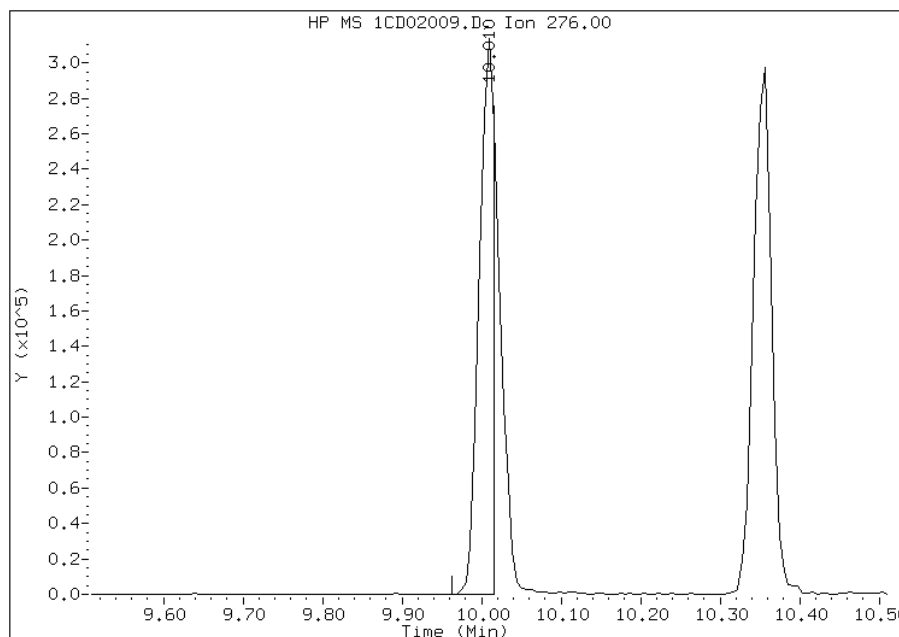
Processing Integration Results

RT: 10.01
Response: 550558
Amount: 32
Conc: 32



Manual Integration Results

RT: 10.01
Response: 412839
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
Lab Smp Id: IC6
Inj Date : 02-APR-2013 14:57
Operator : SCC
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
* 23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

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

Data File: 1CD02010.D

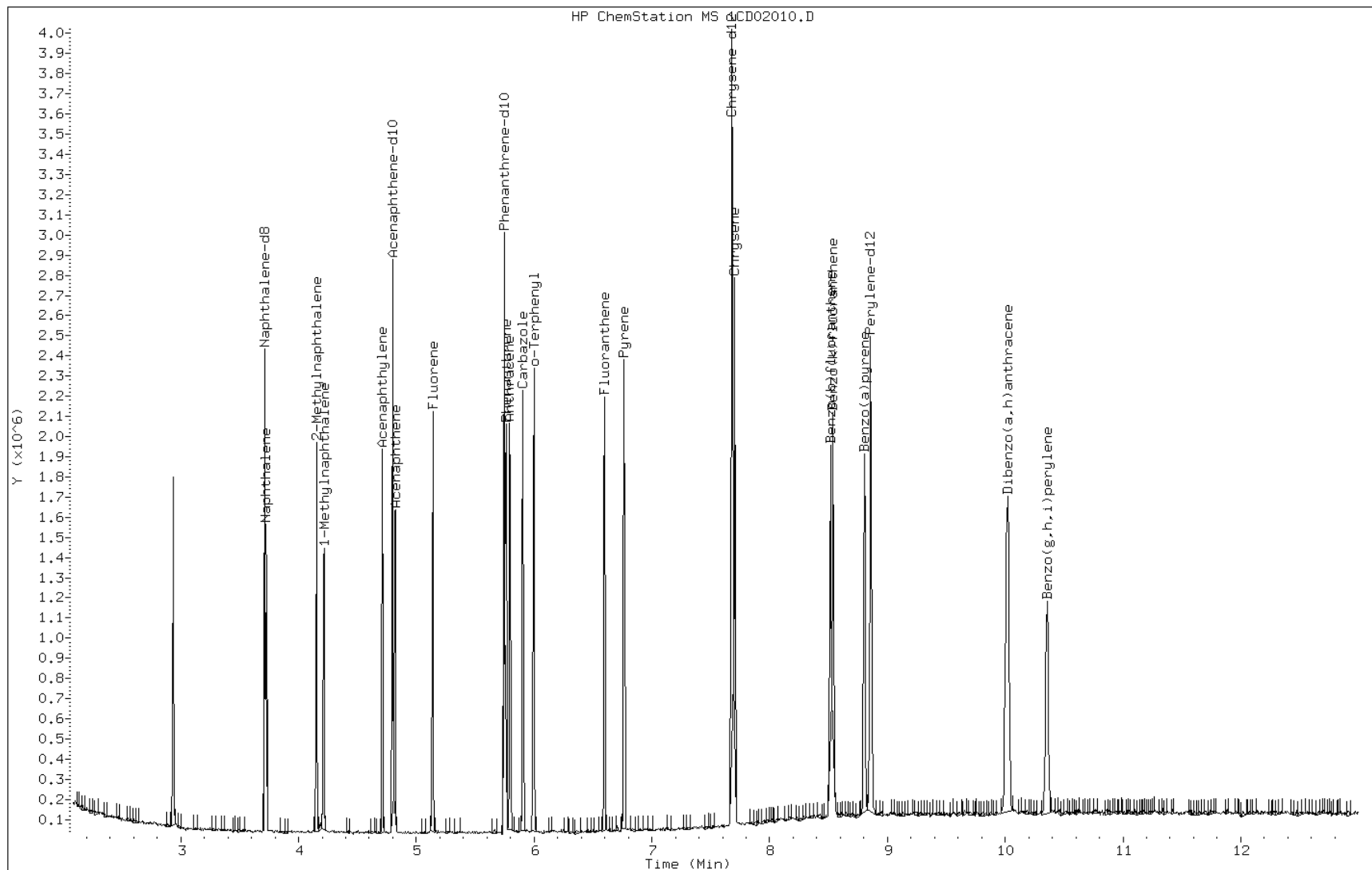
Date: 02-APR-2013 14:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC6

Operator: SCC

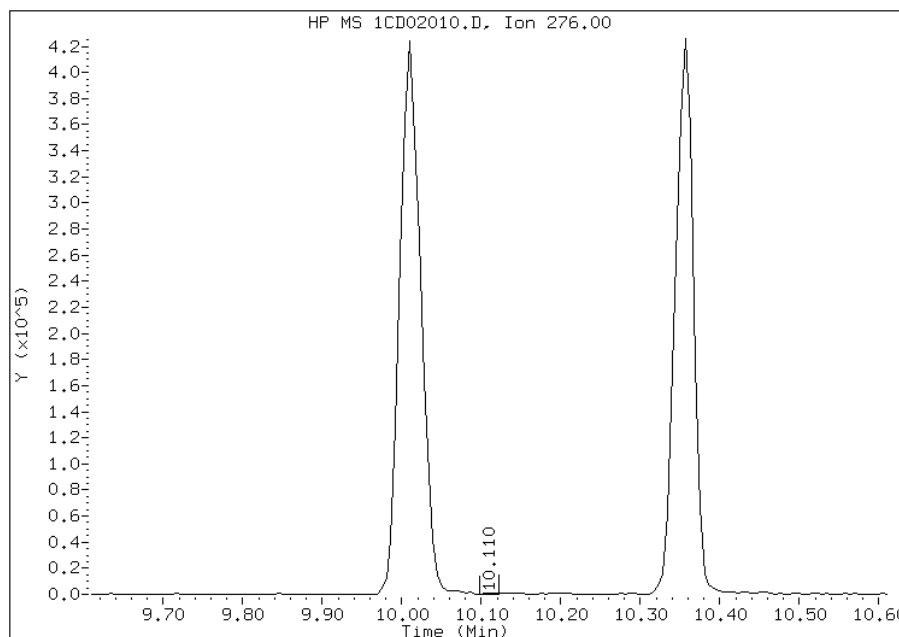


Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

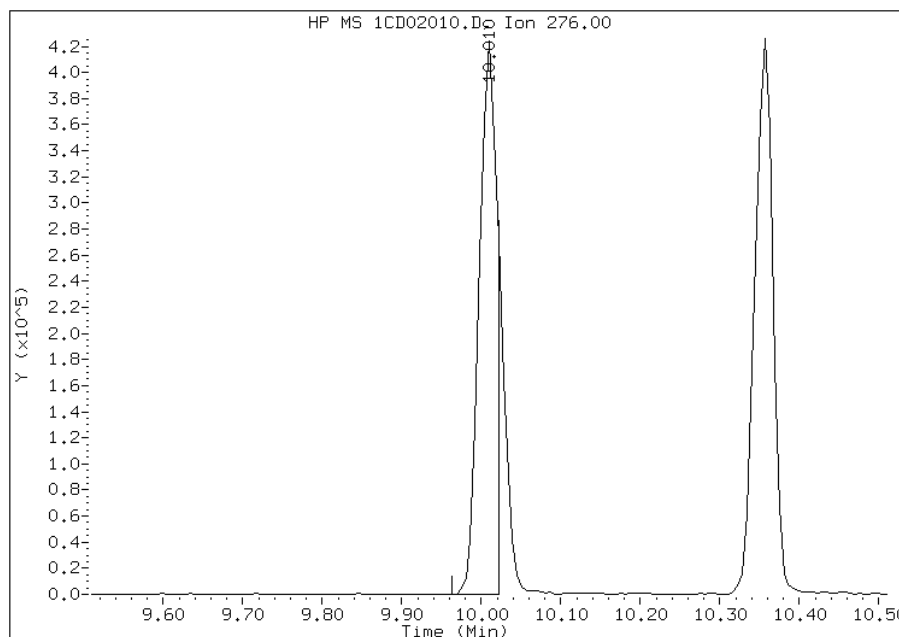
Processing Integration Results

RT: 10.11
Response: 1008
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.01
Response: 655344
Amount: 31
Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02011.D

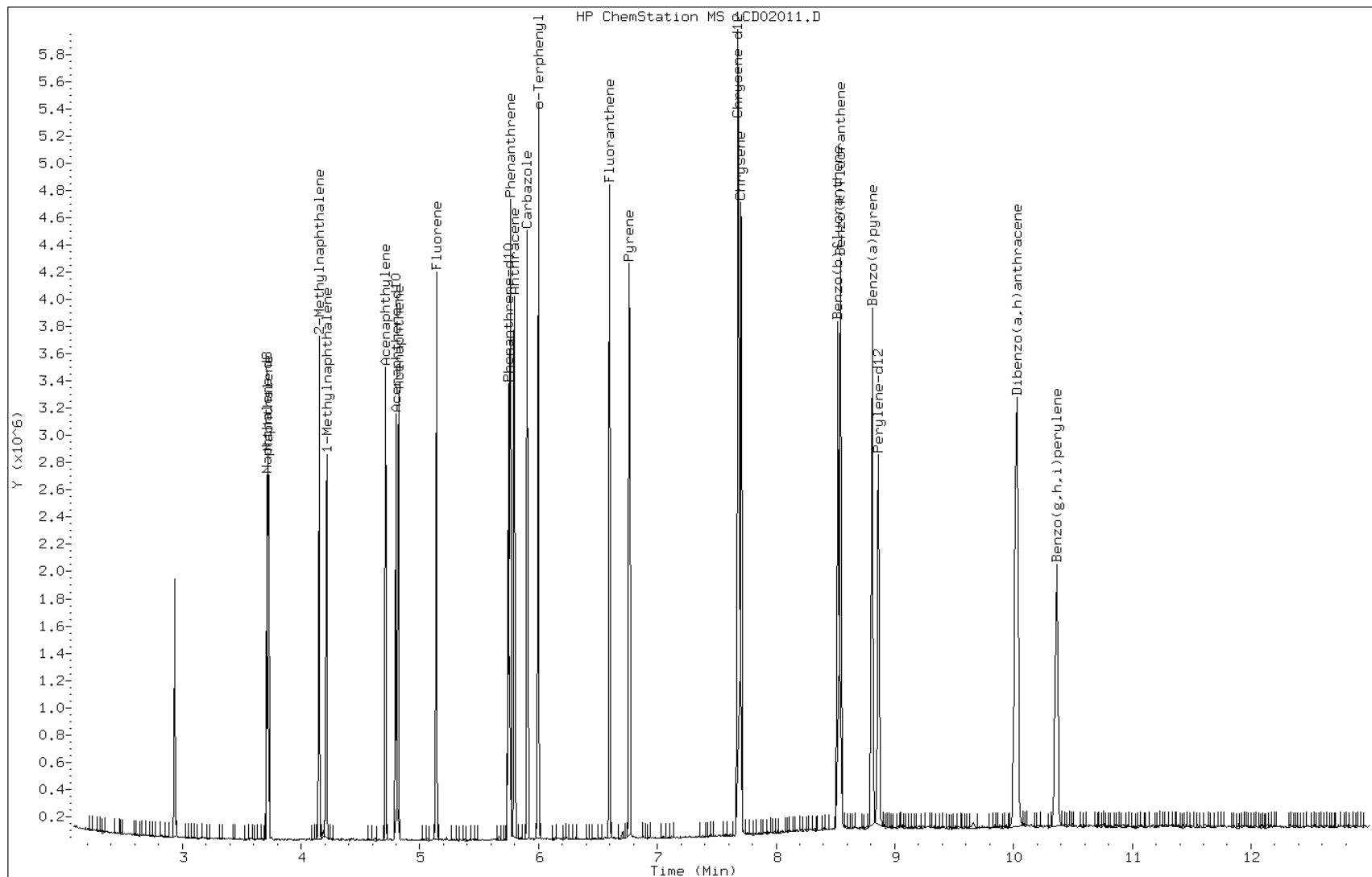
Date: 02-APR-2013 15:15

Client ID:

Instrument: BSMC5973.i

Sample Info: IC7

Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

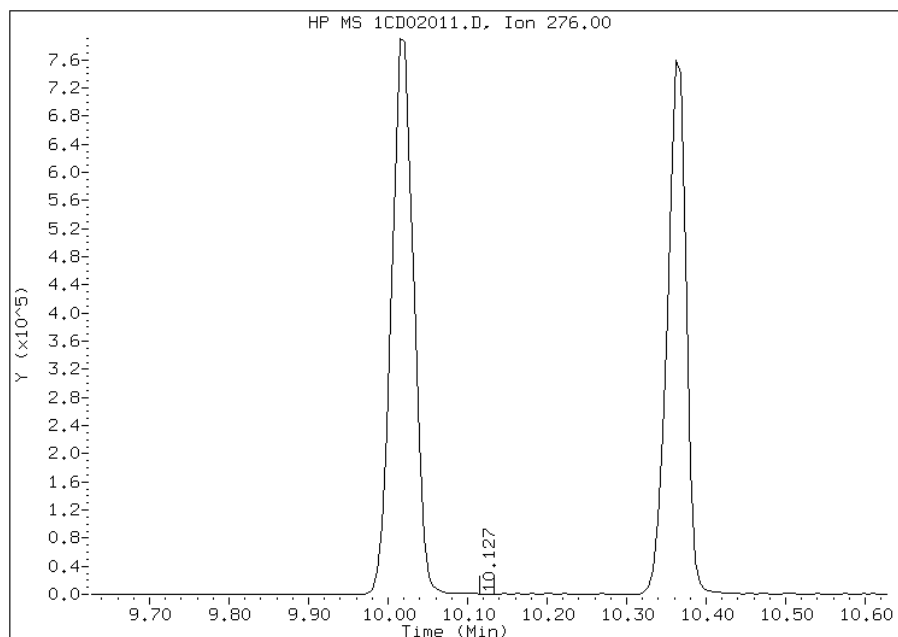
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



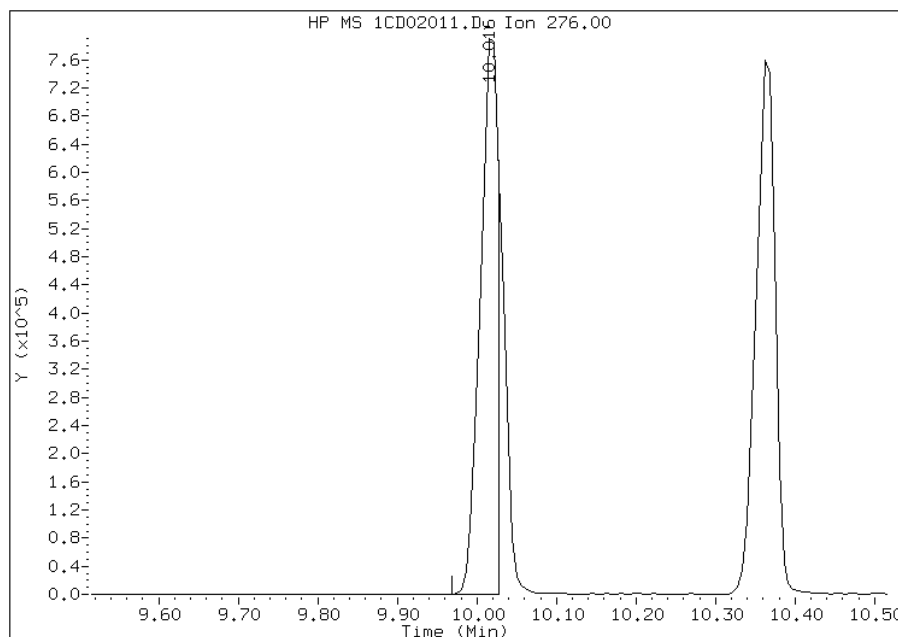
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy Batch No.: 134781

SDG No.: 68088632-3

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy Batch No.: 134781

SDG No.: 68088632-3

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88632-3 Analy B

SDG No.: 68088632-3

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1 50
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1 50
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1 50
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1 50
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1 50
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1 50
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1 50
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1 50
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1 50
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

134781

N

2761

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
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5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

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

Data File: 1DB22003.D

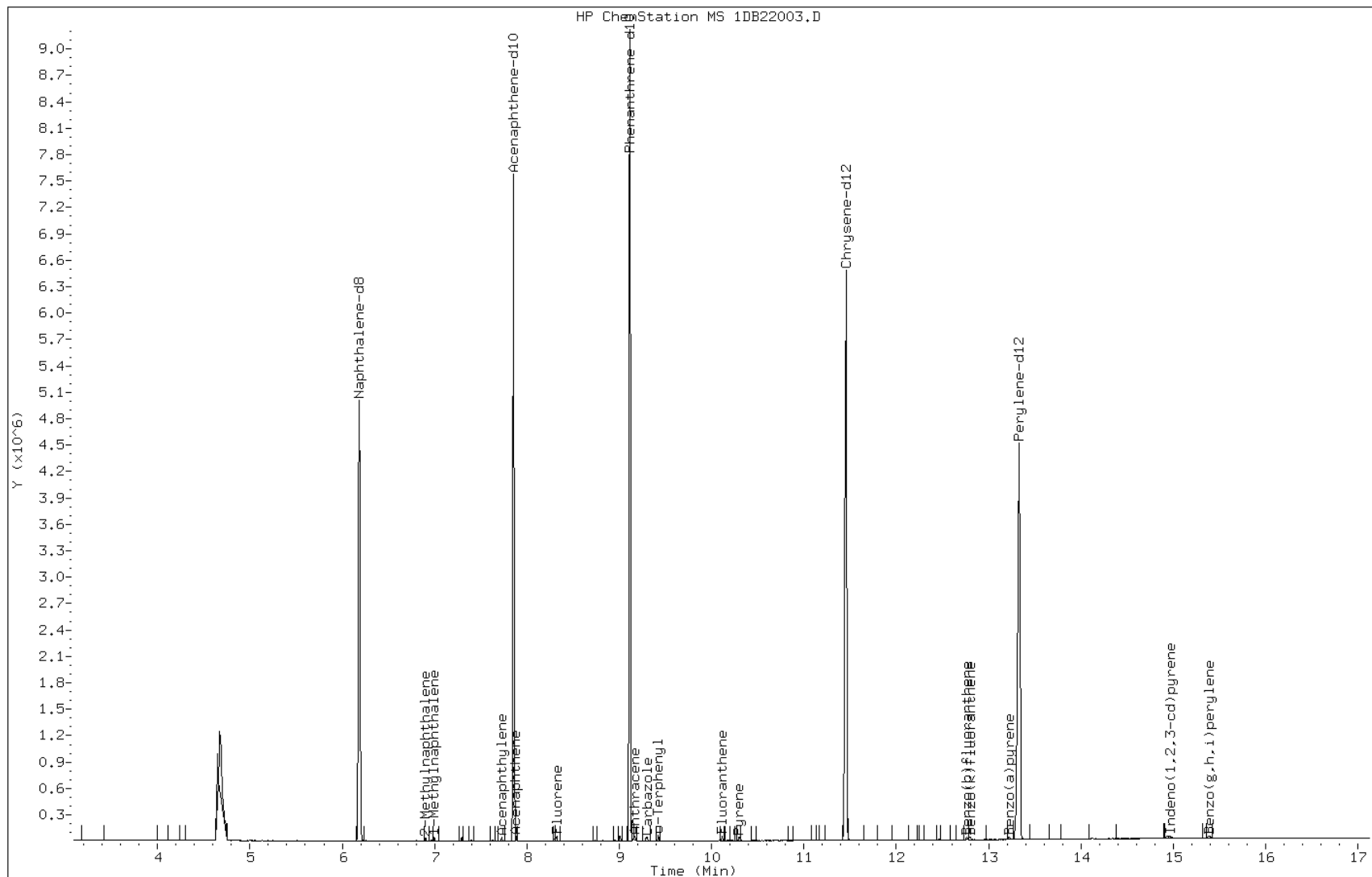
Date: 22-FEB-2013 12:13

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512358

Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

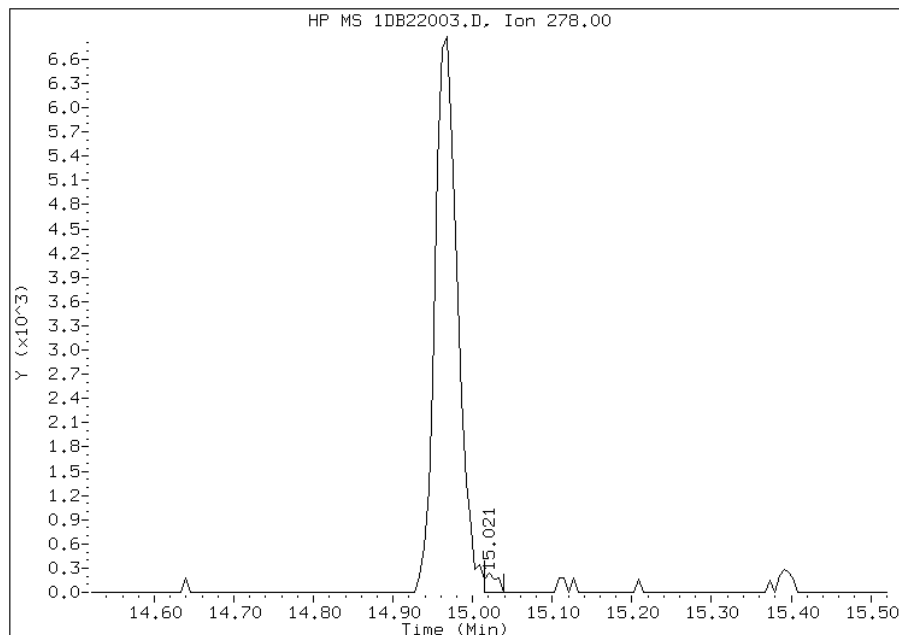
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



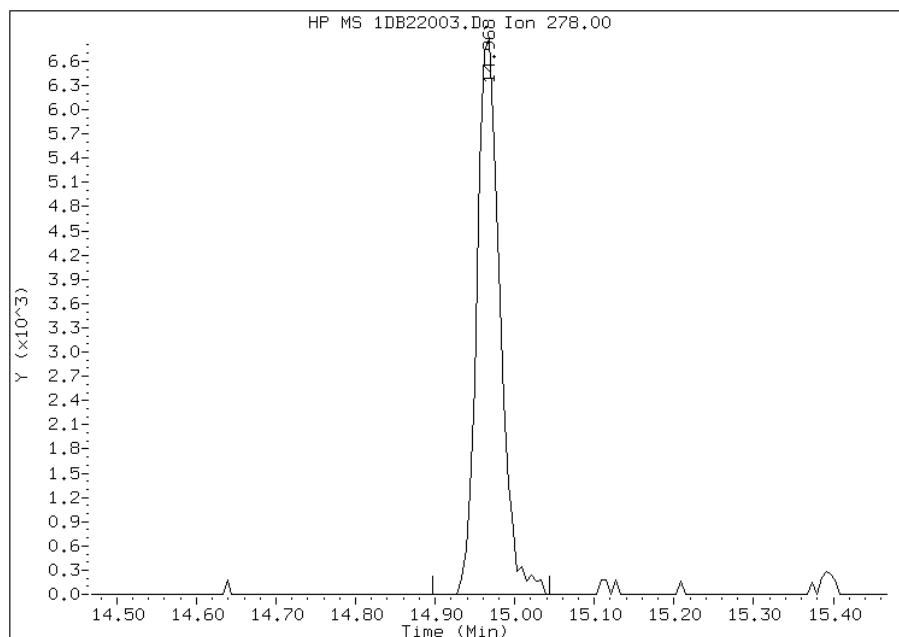
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



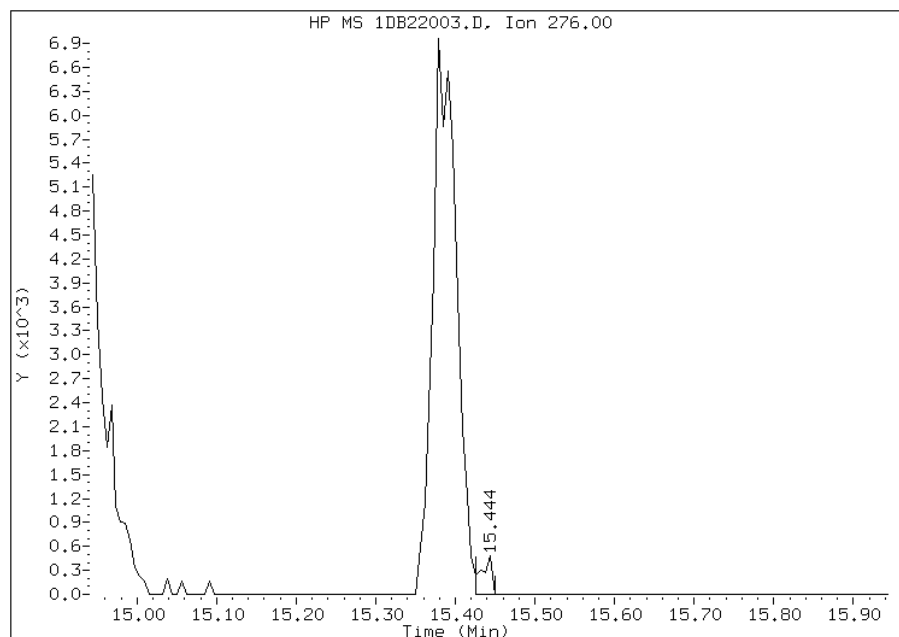
Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

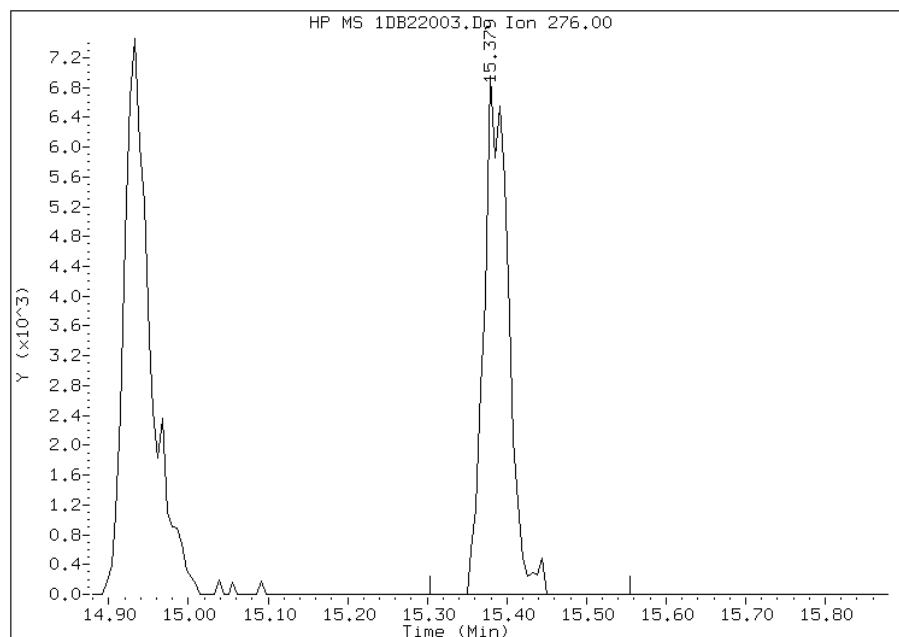
Processing Integration Results

RT: 15.44
Response: 456
Amount: 0
Conc: 0



Manual Integration Results

RT: 15.38
Response: 14886
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
\$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

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

Data File: 1DB22004.D

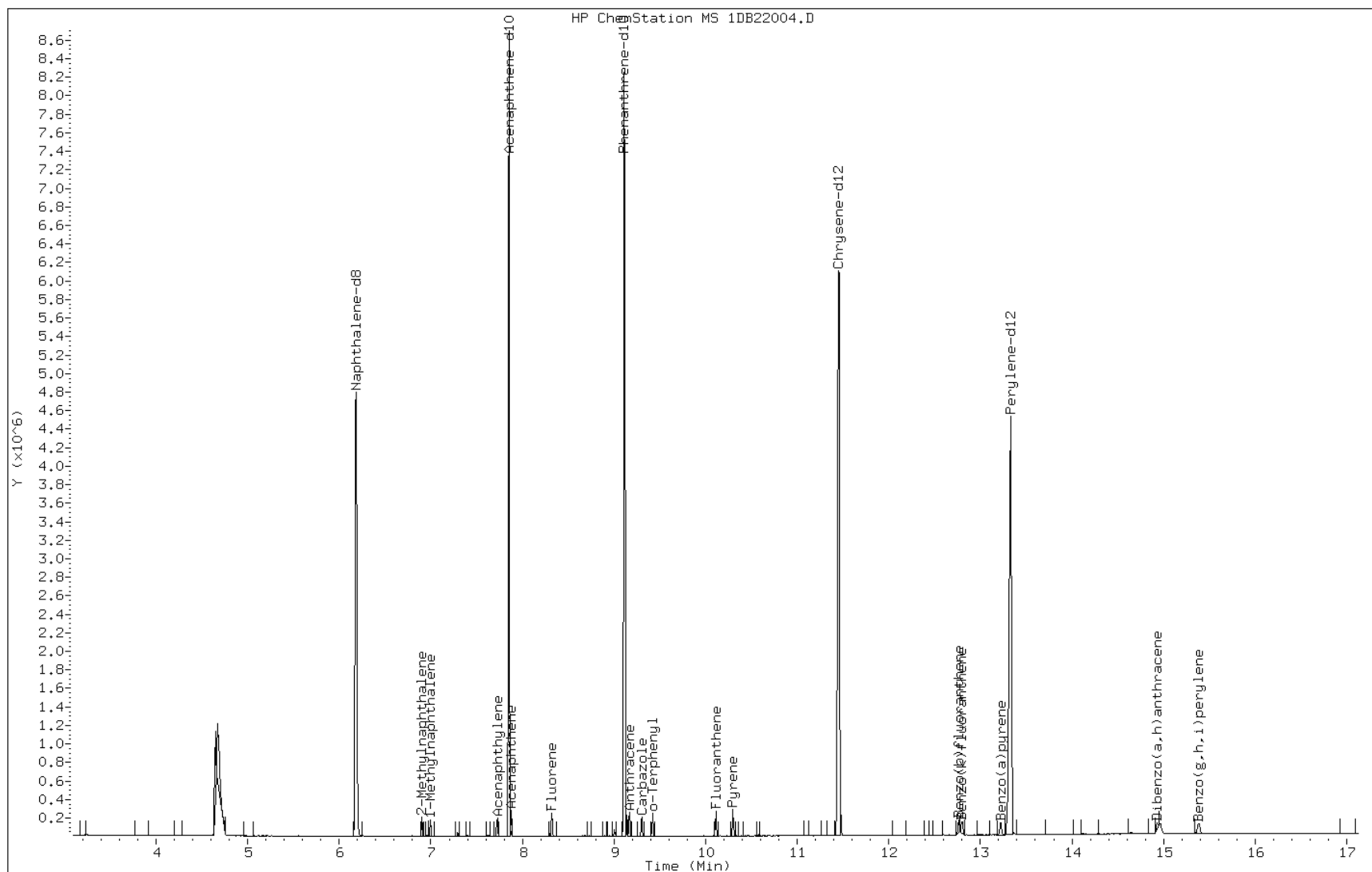
Date: 22-FEB-2013 12:35

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512359

Operator: SCC

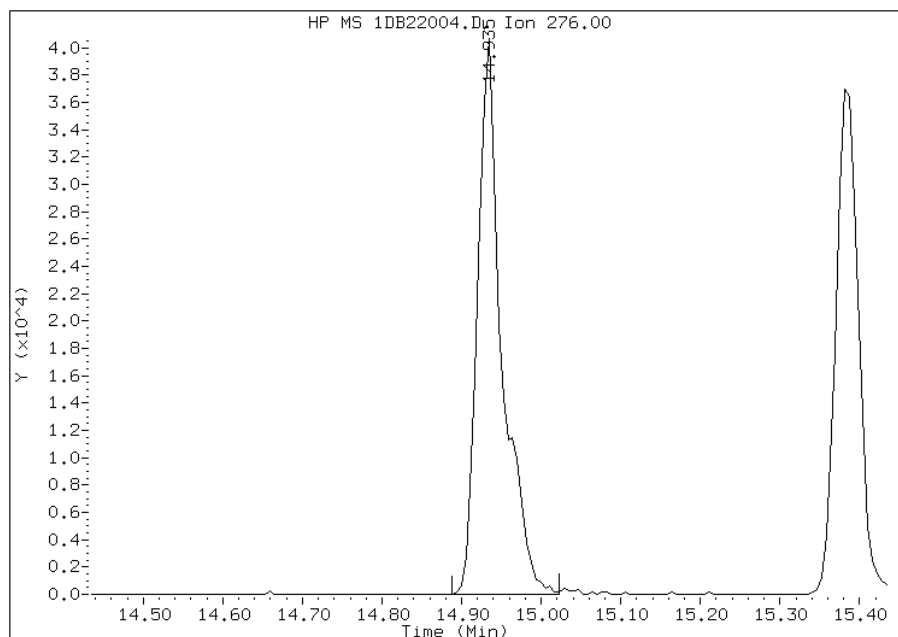


Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

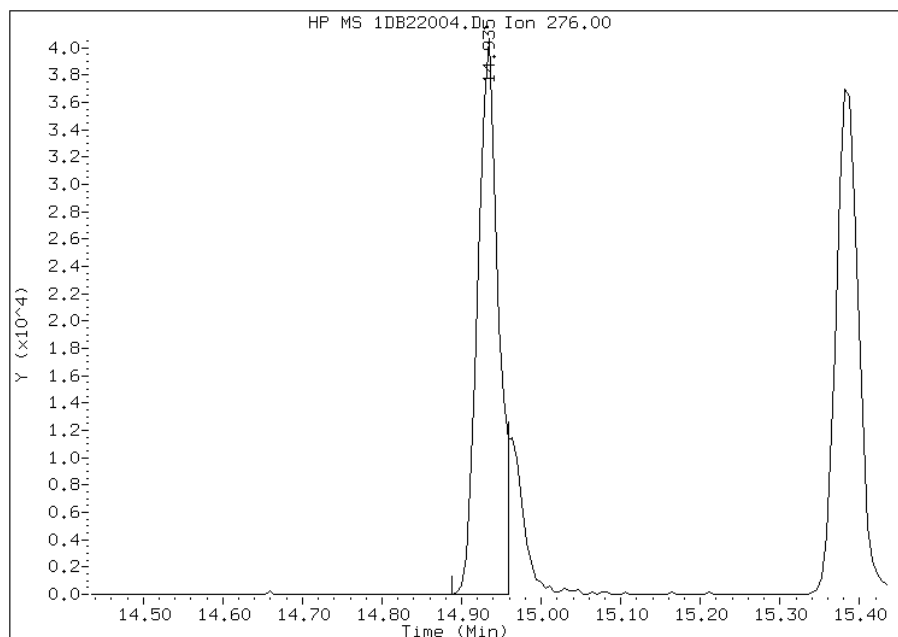
Processing Integration Results

RT: 14.93
Response: 86267
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.93
Response: 73004
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
 Lab Smp Id: IC-1512360
 Inj Date : 22-FEB-2013 12:58
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512360
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

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

Data File: 1DB22005.D

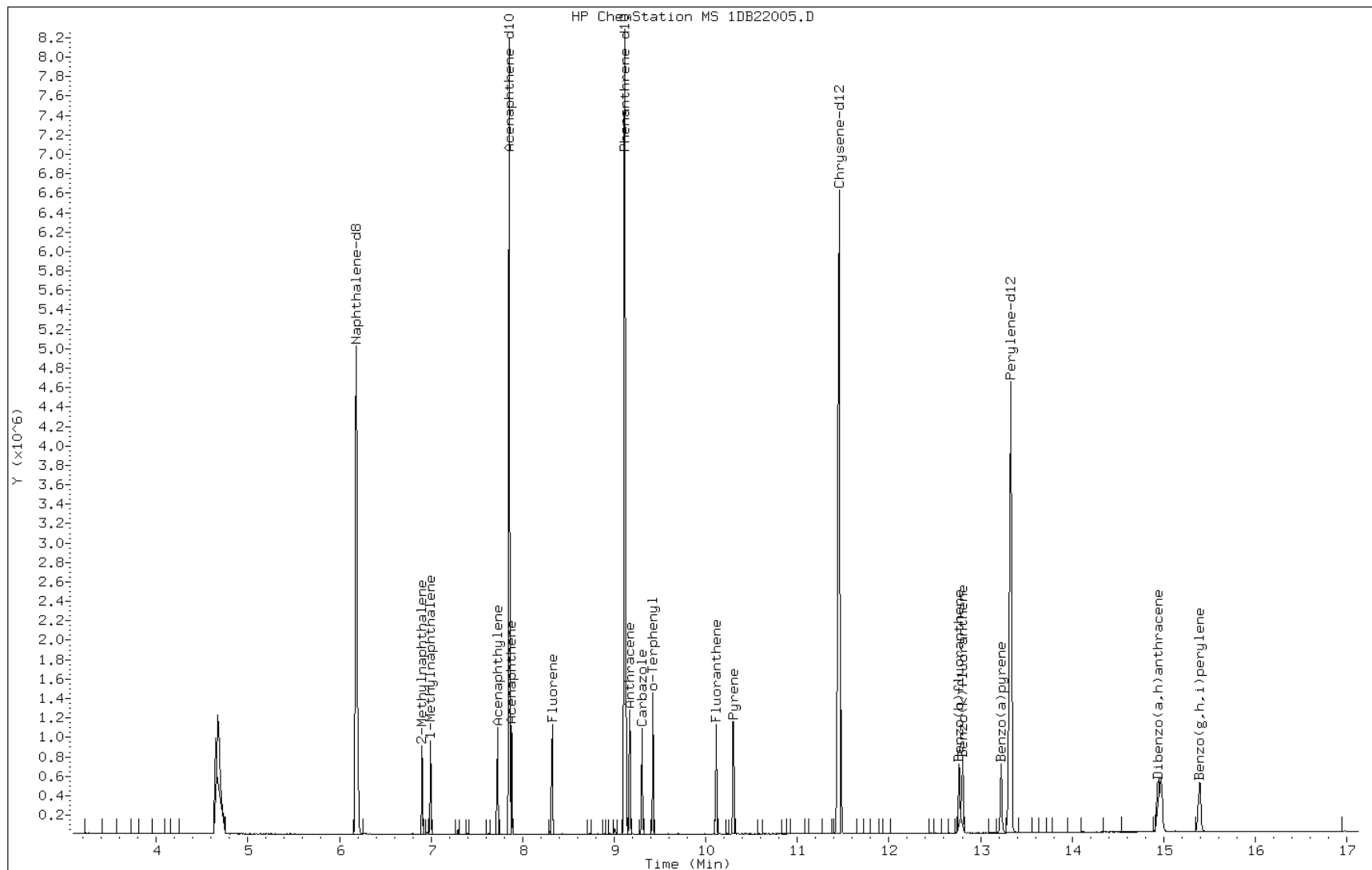
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC

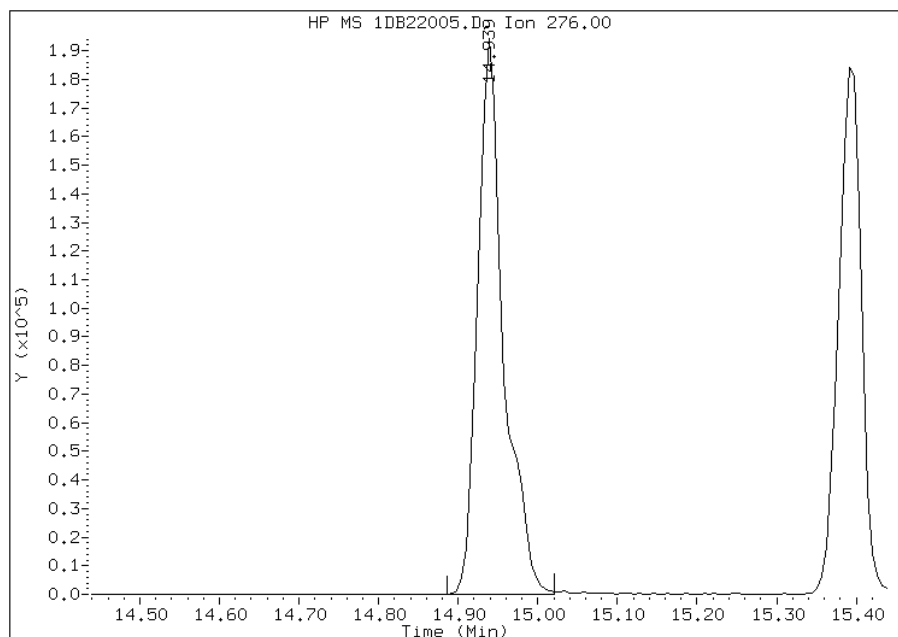


Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

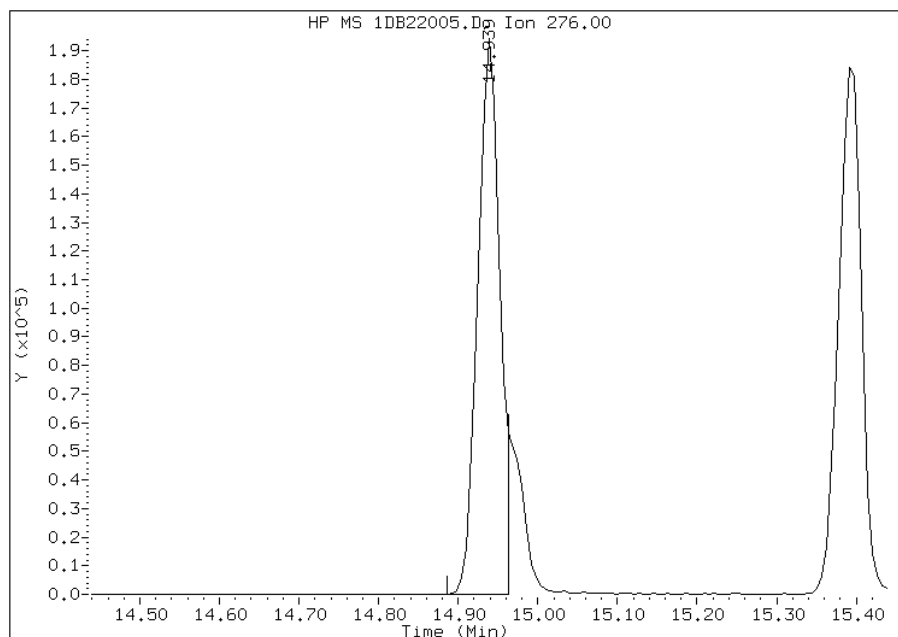
Processing Integration Results

RT: 14.94
Response: 437022
Amount: 5
Conc: 5



Manual Integration Results

RT: 14.94
Response: 372428
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
 Lab Smp Id: IC-1512361
 Inj Date : 22-FEB-2013 13:21
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512361
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
\$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

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

Data File: 1DB22006.D

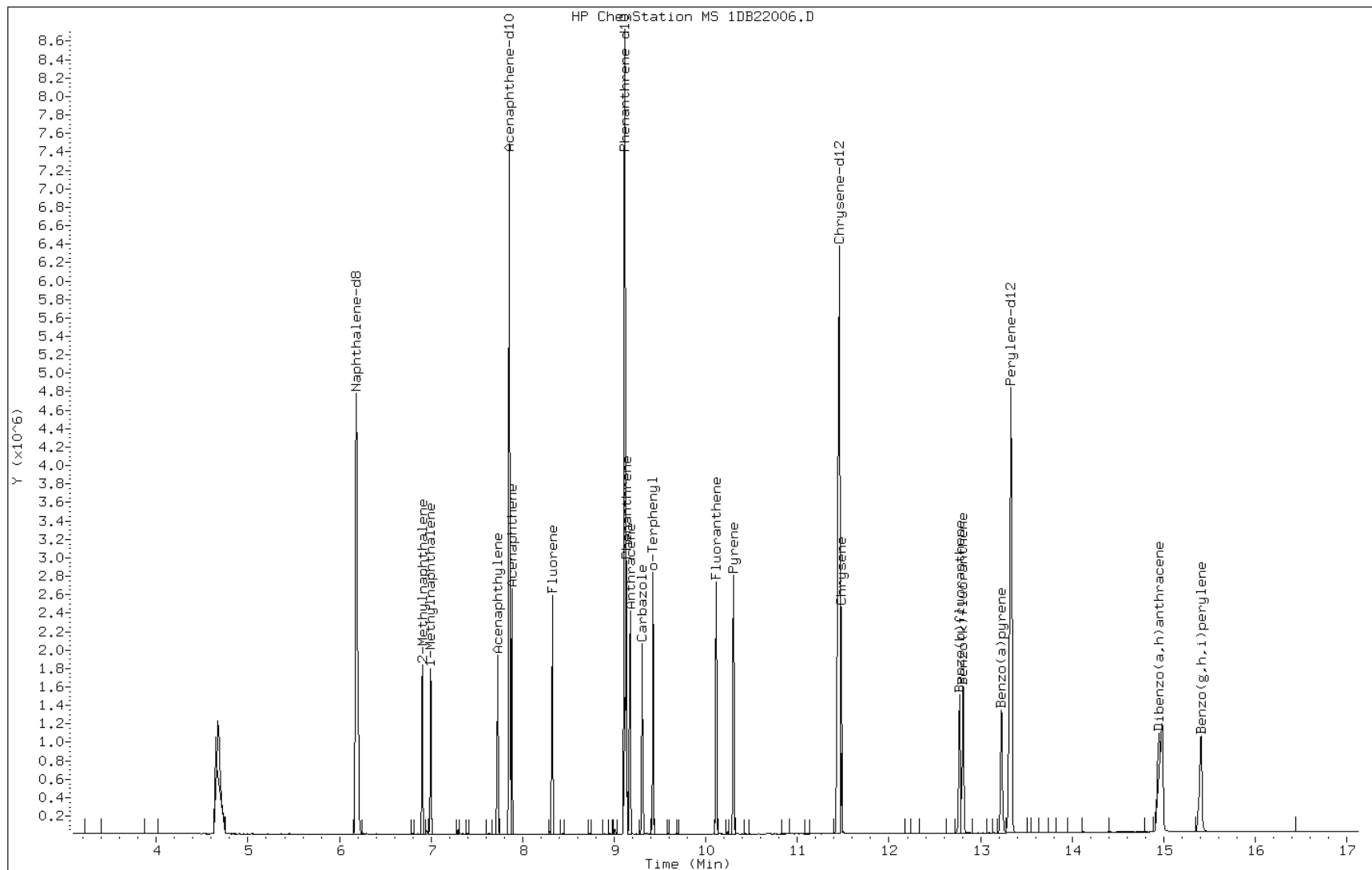
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC

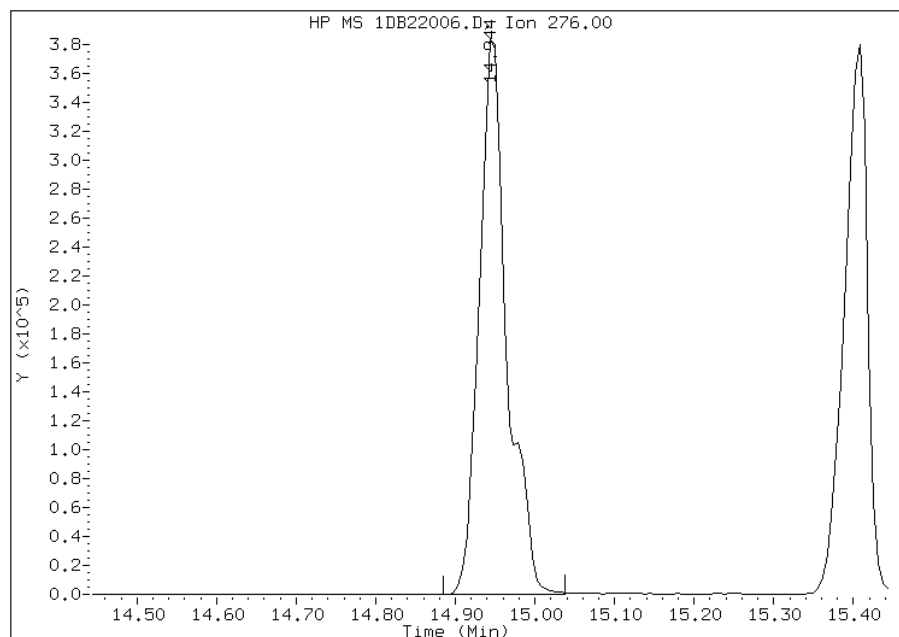


Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

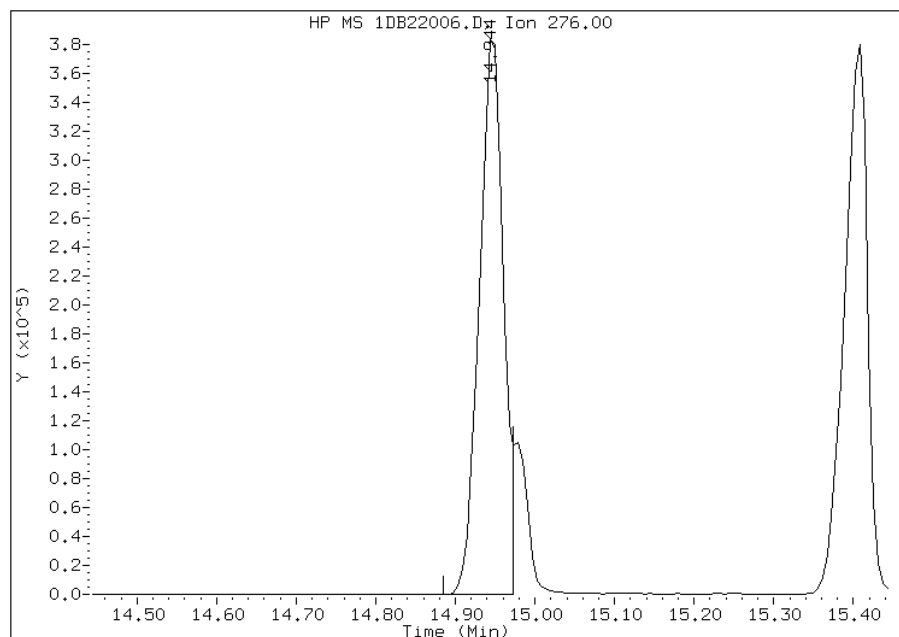
Processing Integration Results

RT: 14.94
Response: 923395
Amount: 11
Conc: 11



Manual Integration Results

RT: 14.94
Response: 814504
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
 Lab Smp Id: ICIS-1512372
 Inj Date : 22-FEB-2013 13:43
 Operator : SCC
 Smp Info : ICIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Compound Sublist: pah.sub

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000		
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000		
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000		
\$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000		20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000		
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000		
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000		20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000		20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000		20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000		20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000		20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000		20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000		20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000		20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000		20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000		20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000		20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000		19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000		20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000		20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000		20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000		20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000		21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000		20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000		20

Data File: 1DB22007.D

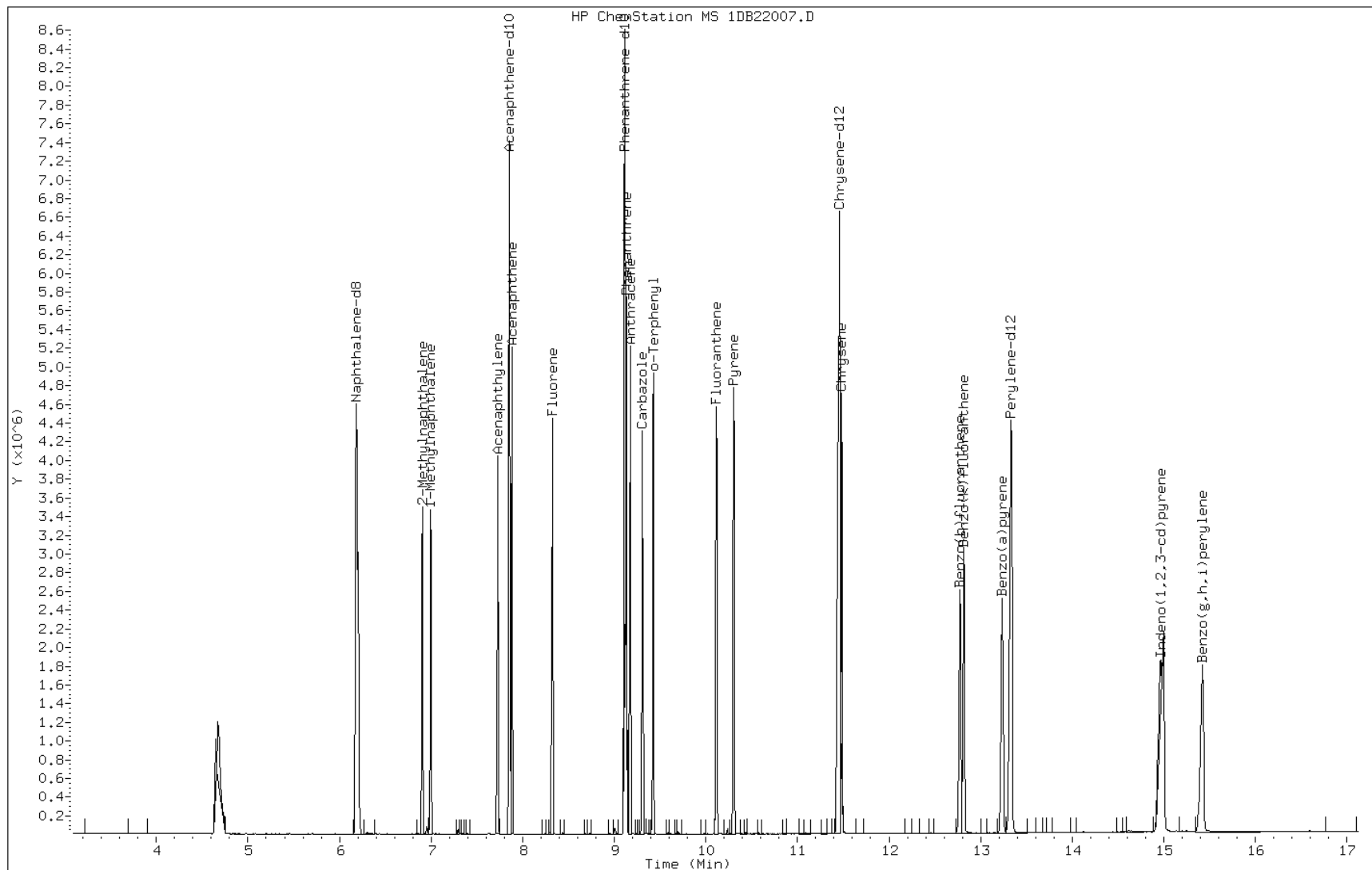
Date: 22-FEB-2013 13:43

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1512372

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
\$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

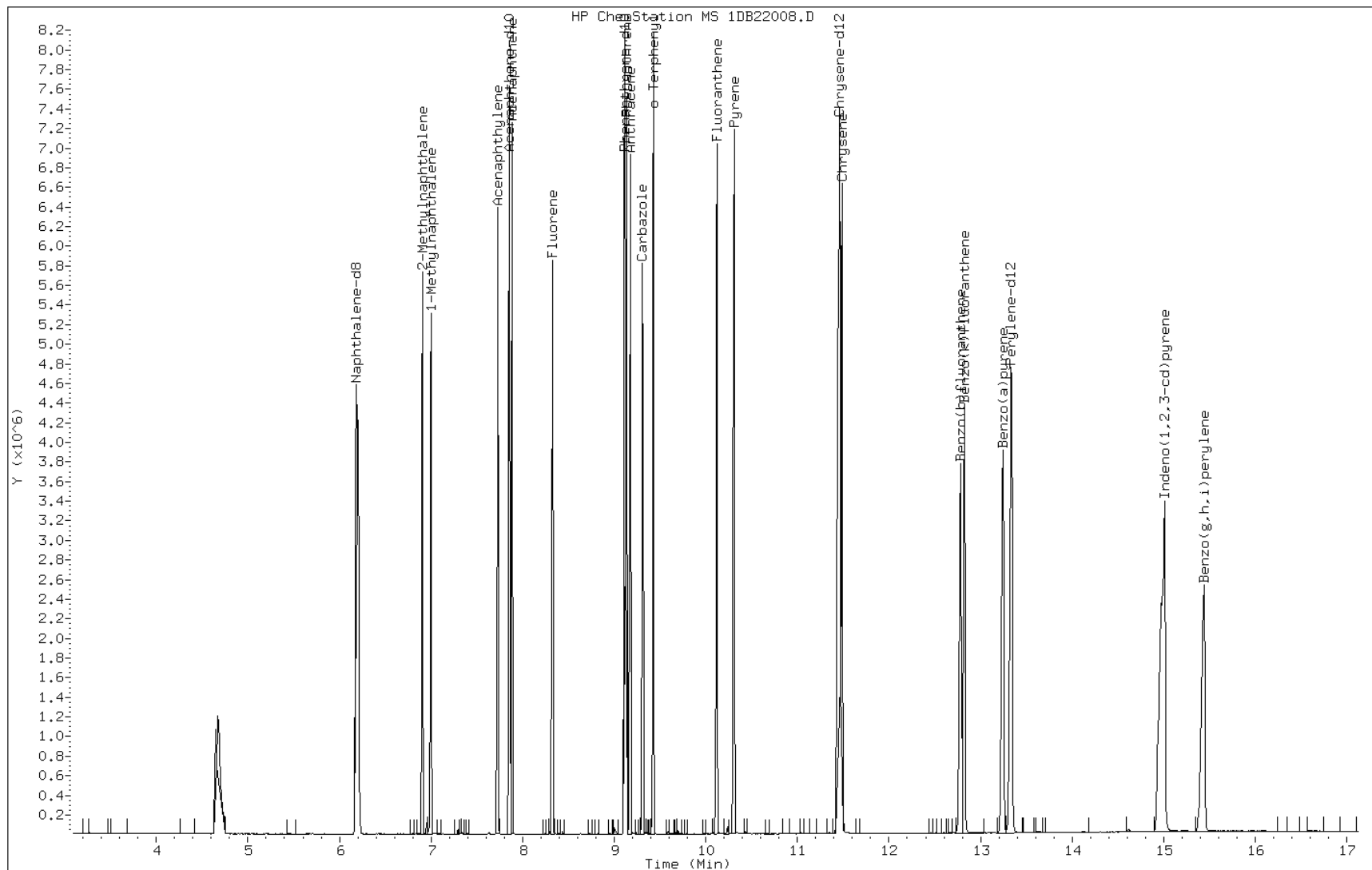
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512373

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
\$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

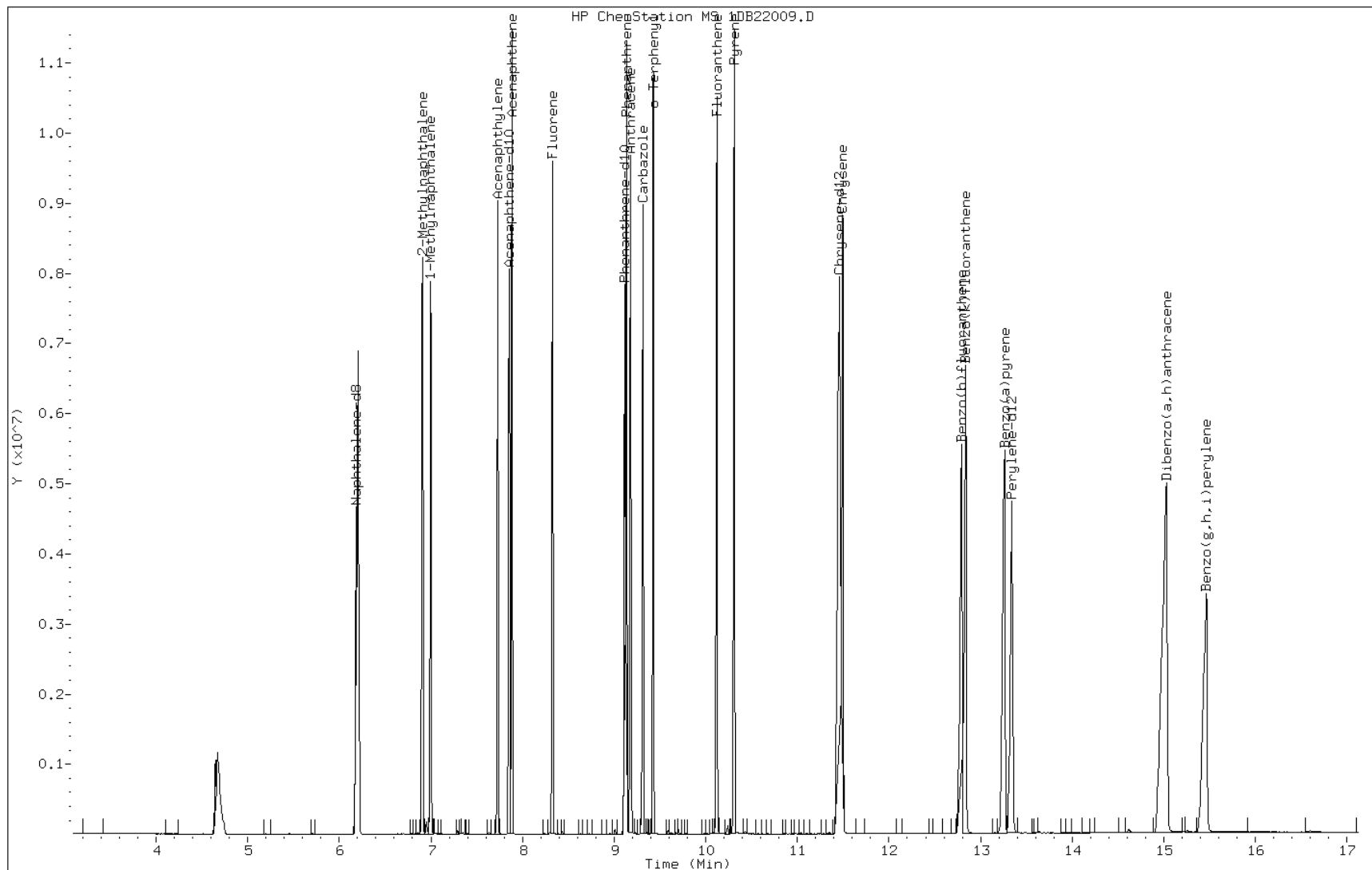
Date: 22-FEB-2013 14:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512374

Operator: SCC

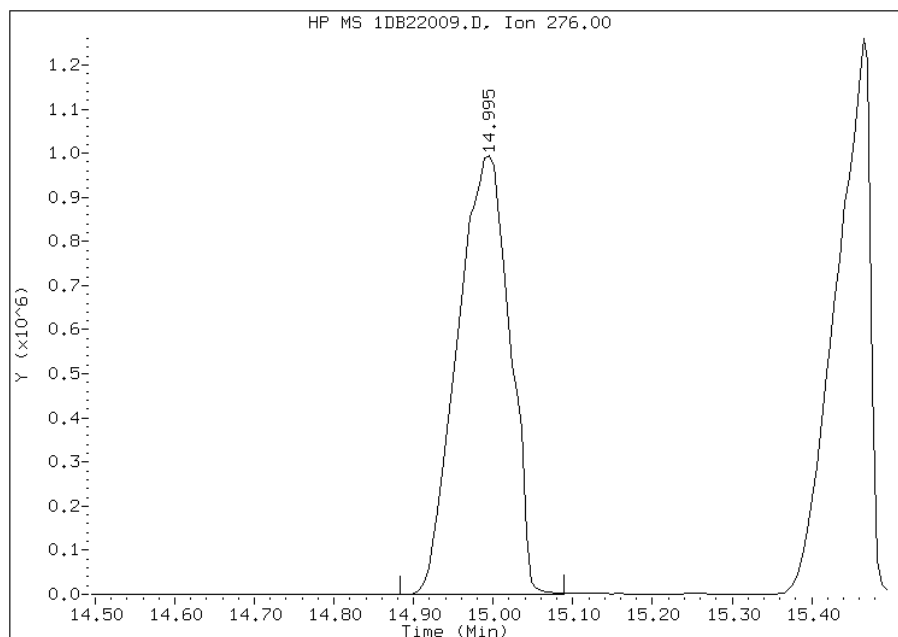


Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

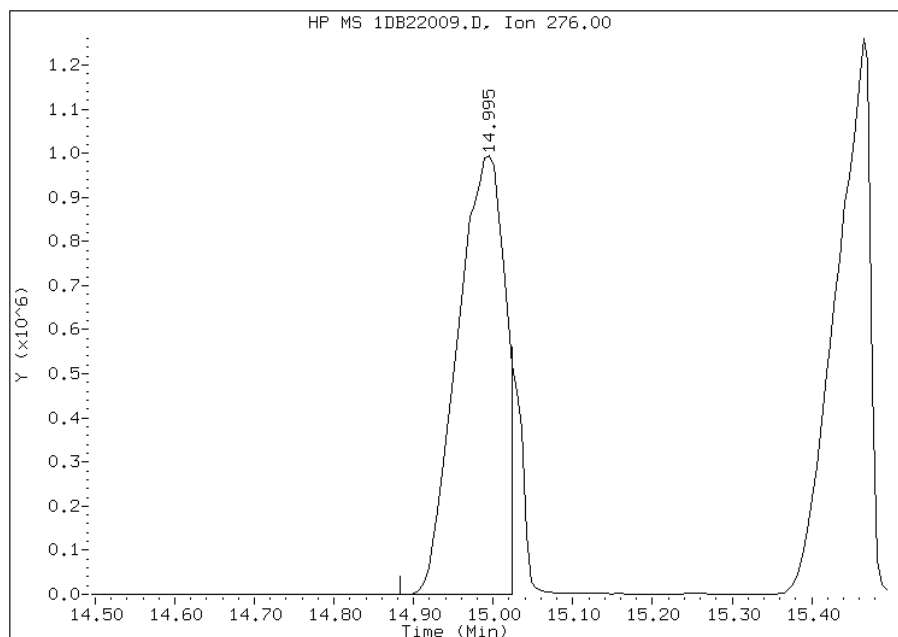
Processing Integration Results

RT: 15.00
Response: 4559640
Amount: 57
Conc: 57



Manual Integration Results

RT: 15.00
Response: 4194422
Amount: 53
Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:06
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
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							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
								(ug/mL)	(ug/L)
=====	=====	=====	=====	=====	=====	=====		=====	=====
* 1 Naphthalene-d8		136	3.804	3.804	(1.000)	1383069		40.0000	
* 6 Acenaphthene-d10		164	4.892	4.892	(1.000)	1075067		40.0000	
* 10 Phenanthrene-d10		188	5.845	5.845	(1.000)	2141313		40.0000	
\$ 14 o-Terphenyl		230	6.098	6.098	(1.043)	528461		16.3458	16.3457
* 18 Chrysene-d12		240	7.798	7.798	(1.000)	2766374		40.0000	
* 23 Perylene-d12		264	9.015	9.016	(1.000)	3034368		40.0000	
2 Naphthalene		128	3.816	3.816	(1.003)	643385		17.8686	17.8685
3 2-Methylnaphthalene		142	4.245	4.245	(1.116)	426527		17.7587	17.7586
4 1-Methylnaphthalene		142	4.304	4.304	(1.131)	406896		18.6013	18.6013
5 Acenaphthylene		152	4.804	4.804	(0.982)	792099		18.2750	18.2749
7 Acenaphthene		154	4.910	4.910	(1.004)	511893		19.0010	19.0010
9 Fluorene		166	5.233	5.234	(1.070)	612561		17.9790	17.9790
11 Phenanthrene		178	5.863	5.863	(1.003)	1016506		16.4172	16.4171
12 Anthracene		178	5.898	5.898	(1.009)	1040221		17.1782	17.1781
13 Carbazole		167	6.004	6.004	(1.027)	936321		17.3944	17.3943
15 Fluoranthene		202	6.704	6.704	(1.147)	1196804		17.6502	17.6501
16 Pyrene		202	6.874	6.875	(0.882)	1218381		16.3888	16.3887

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

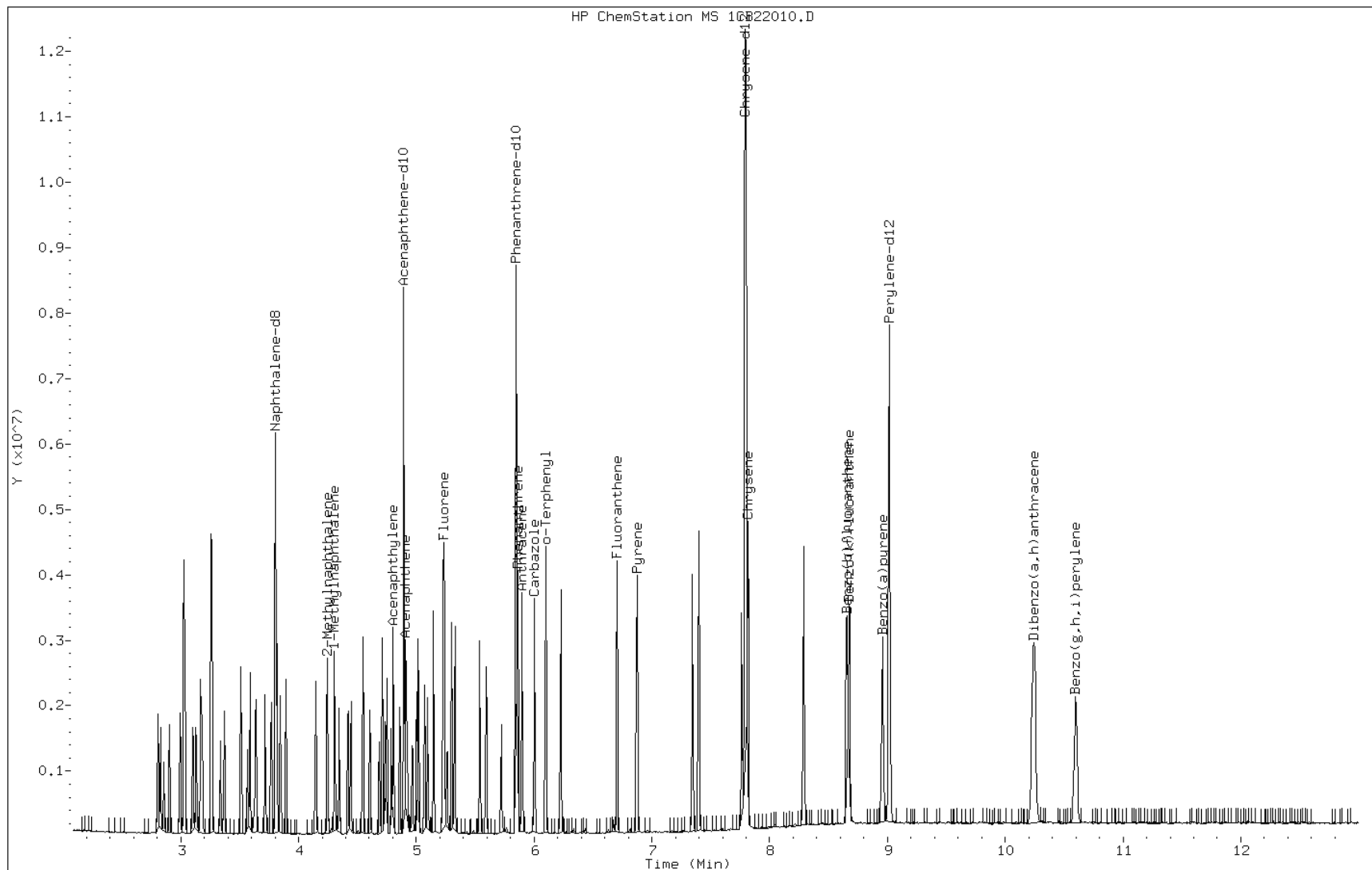
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

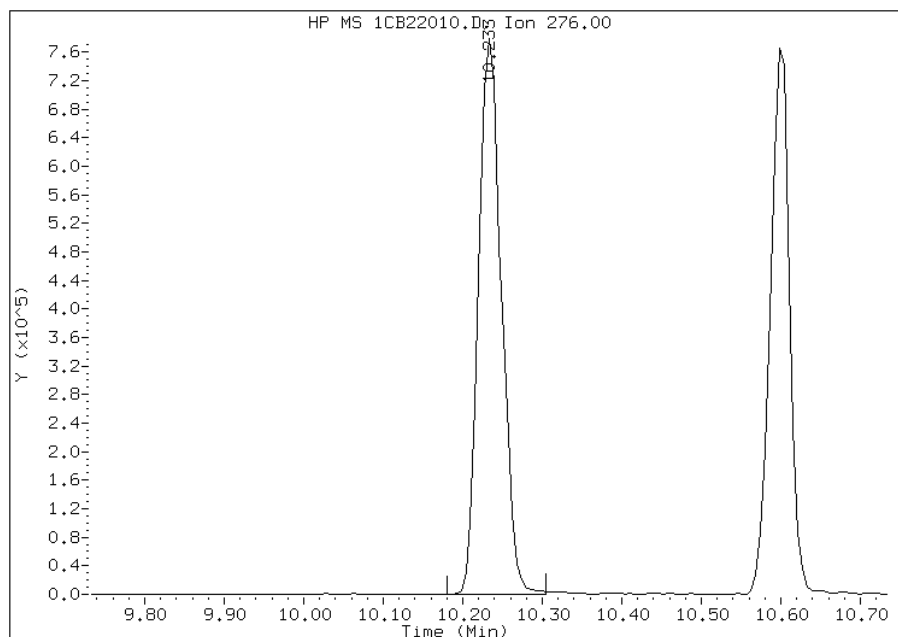


Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

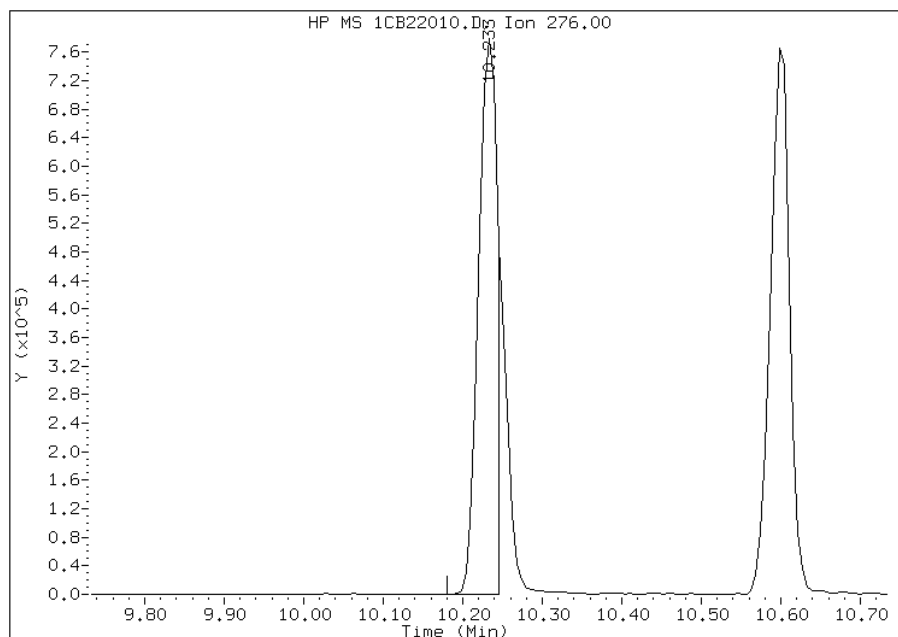
Processing Integration Results

RT: 10.23
Response: 1550656
Amount: 21
Conc: 21



Manual Integration Results

RT: 10.23
Response: 1271997
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: CCVIS 660-135996/3 Calibration Date: 04/01/2013 11:31
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CD01003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.006	0.0000	19300	20000	-3.4	20.0
2-Methylnaphthalene	Ave	0.6946	0.7060	0.0000	20300	20000	1.6	20.0
1-Methylnaphthalene	Ave	0.6326	0.6390	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.613	1.556	0.0000	19300	20000	-3.5	20.0
Acenaphthene	Ave	1.002	0.9013	0.0000	18000	20000	-10.1	20.0
Fluorene	Ave	1.268	1.225	0.0000	19300	20000	-3.3	20.0
Phenanthrene	Ave	1.157	1.107	0.0000	19100	20000	-4.3	20.0
Anthracene	Ave	1.131	1.104	0.0000	19500	20000	-2.4	20.0
Carbazole	Ave	1.006	0.9651	0.0000	19200	20000	-4.0	20.0
Fluoranthene	Ave	1.267	1.228	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.092	0.0000	20300	20000	1.6	20.0
Benzo[a]anthracene	Ave	1.154	1.081	0.0000	18700	20000	-6.4	20.0
Chrysene	Ave	1.155	1.066	0.0000	18500	20000	-7.7	20.0
Benzo[b]fluoranthene	Ave	1.045	1.081	0.0000	20700	20000	3.5	20.0
Benzo[k]fluoranthene	Ave	1.072	1.031	0.0000	19200	20000	-3.9	20.0
Benzo[a]pyrene	Ave	1.015	1.019	0.0000	20100	20000	0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9224	0.0000	19300	20000	-3.4	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9275	0.0000	19900	20000	-0.7	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9409	0.0000	18800	20000	-5.8	20.0
o-Terphenyl	Ave	0.6039	0.6045	0.0000	20000	20000	0.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 01-APR-2013 11:31
Operator : SCC
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.716	3.716 (1.000)		761650	40.0000	(H)
* 6 Acenaphthene-d10	164	4.804	4.804 (1.000)		604806	40.0000	(H)
* 10 Phenanthrene-d10	188	5.757	5.757 (1.000)		1101759	40.0000	(H)
\$ 14 o-Terphenyl	230	6.004	6.004 (1.043)		332980	20.0000	20.0172(H)
* 18 Chrysene-d12	240	7.698	7.698 (1.000)		1332309	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886 (1.000)		1345071	40.0000	(H)
2 Naphthalene	128	3.733	3.733 (1.005)		383082	20.0000	19.3196(H)
3 2-Methylnaphthalene	142	4.157	4.157 (1.119)		268864	20.0000	20.3275(H)
4 1-Methylnaphthalene	142	4.222	4.222 (1.136)		243336	20.0000	20.2001
5 Acenaphthylene	152	4.716	4.716 (0.982)		470684	20.0000	19.3030(H)
7 Acenaphthene	154	4.827	4.827 (1.005)		272549	20.0000	17.9829
9 Fluorene	166	5.145	5.145 (1.071)		370590	20.0000	19.3343(H)
11 Phenanthrene	178	5.768	5.768 (1.002)		609615	20.0000	19.1353(H)
12 Anthracene	178	5.804	5.804 (1.008)		607904	20.0000	19.5110(H)
13 Carbazole	167	5.910	5.910 (1.027)		531662	20.0000	19.1961(H)
15 Fluoranthene	202	6.604	6.604 (1.147)		676516	20.0000	19.3908(H)
16 Pyrene	202	6.774	6.774 (0.880)		727417	20.0000	20.3167(H)
17 Benzo(a)anthracene	228	7.692	7.692 (0.999)		720022	20.0000	18.7247(H)
19 Chrysene	228	7.715	7.715 (1.002)		710095	20.0000	18.4527(H)
20 Benzo(b)fluoranthene	252	8.539	8.539 (0.961)		727316	20.0000	20.6907(H)
21 Benzo(k)fluoranthene	252	8.562	8.562 (0.964)		693165	20.0000	19.2224(H)
22 Benzo(a)pyrene	252	8.827	8.827 (0.993)		685360	20.0000	20.0727(H)
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.039 (1.130)		620361	20.0000	19.3140(MH)
25 Dibenzo(a,h)anthracene	278	10.056	10.056 (1.132)		623765	20.0000	19.8540(H)
26 Benzo(g,h,i)perylene	276	10.386	10.386 (1.169)		632761	20.0000	18.8322(H)

QC Flag Legend

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

Data File: 1CD01003.D

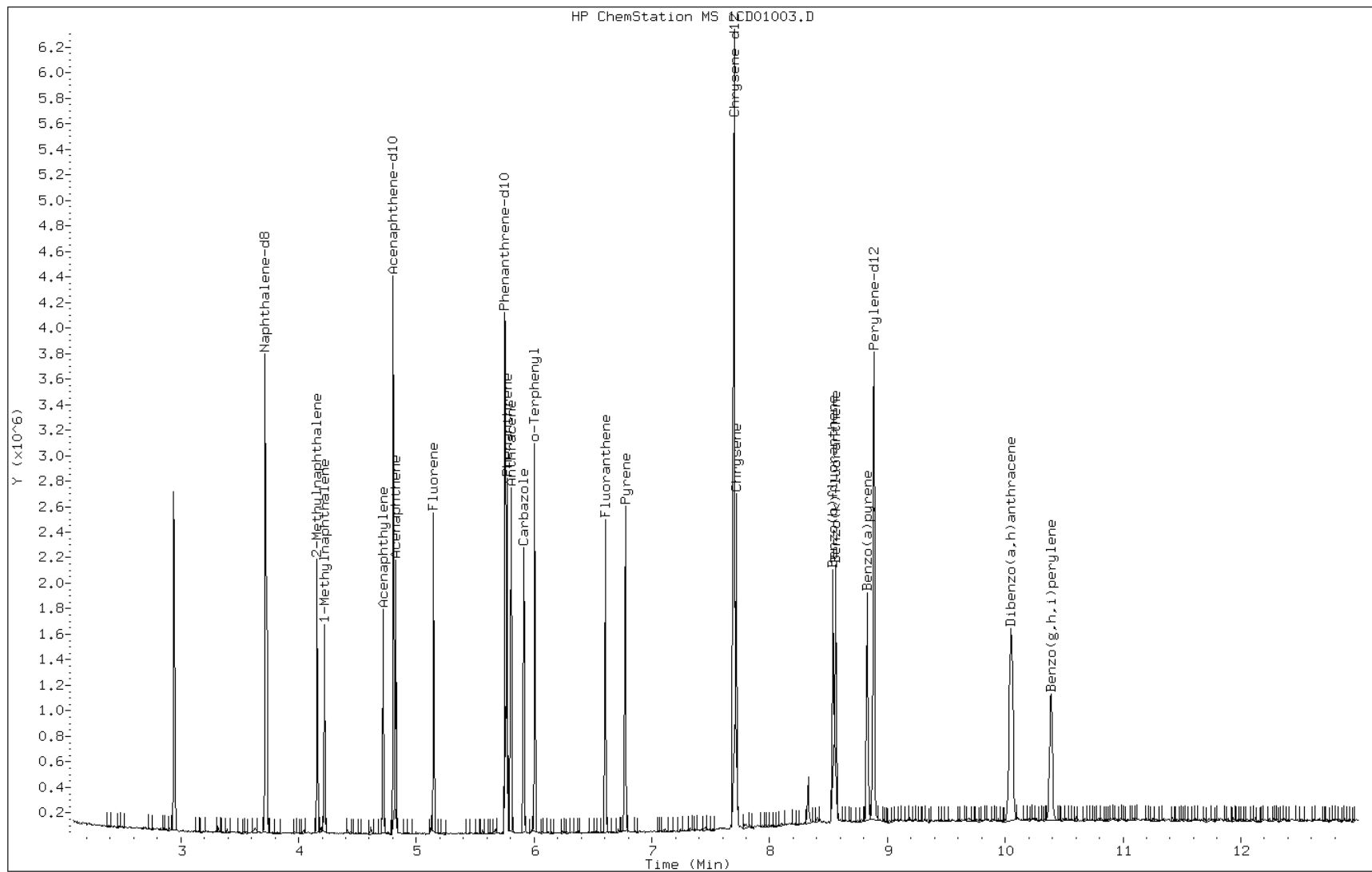
Date: 01-APR-2013 11:31

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

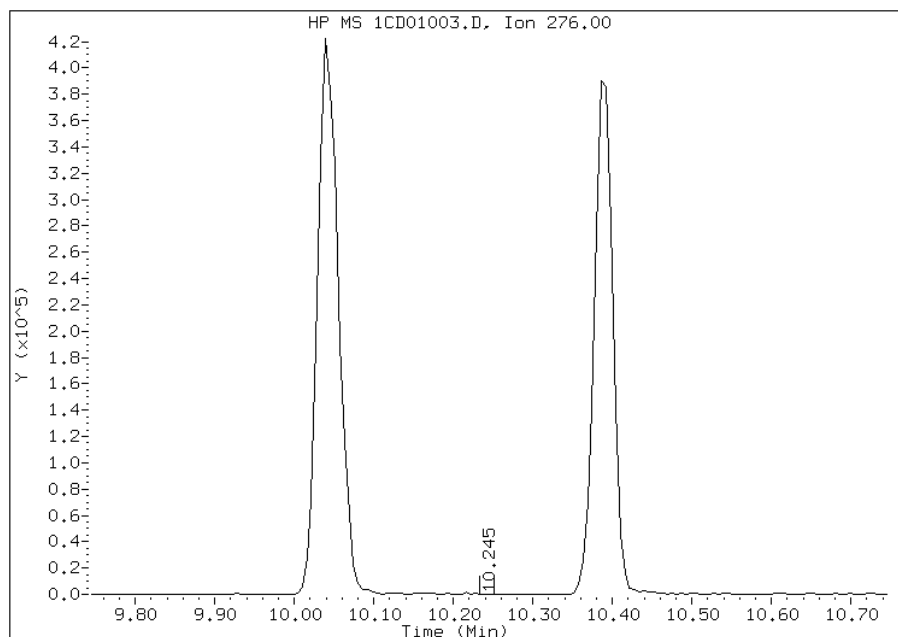


Manual Integration Report

Data File: 1CD01003.D
Inj. Date and Time: 01-APR-2013 11:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

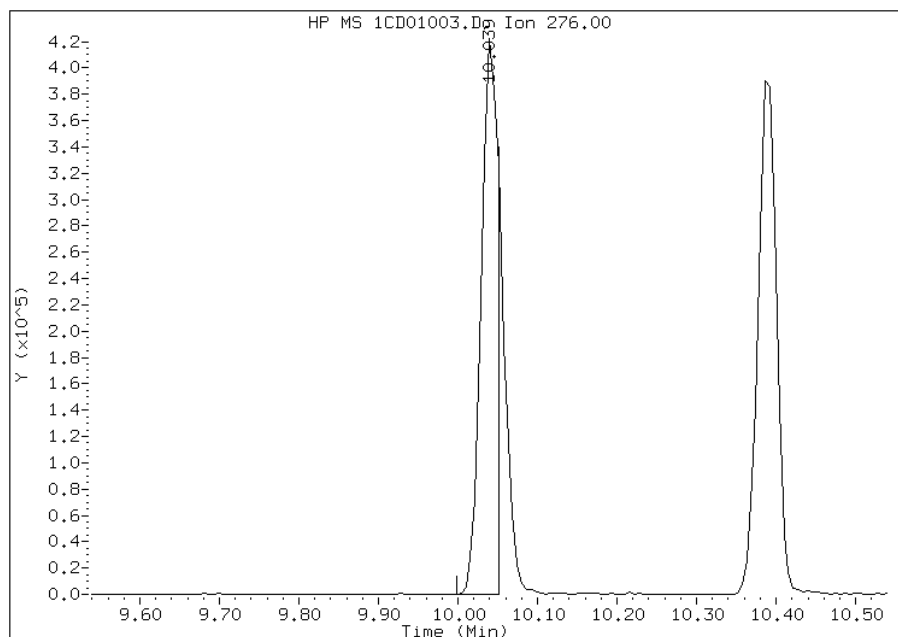
Processing Integration Results

RT: 10.25
Response: 160
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.04
Response: 620361
Amount: 19
Conc: 19



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:49
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

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

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/l)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	649122	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
\$	14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
*	23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
	2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
	5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
	7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
	9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
	11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
	12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
	13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
	15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
	16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====		=====	=====
19 Chrysene	228	7.704	7.710	(1.002)	544600		15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649		15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474		16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495		15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166		17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427		18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199		16.6490	16.6490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02012.D

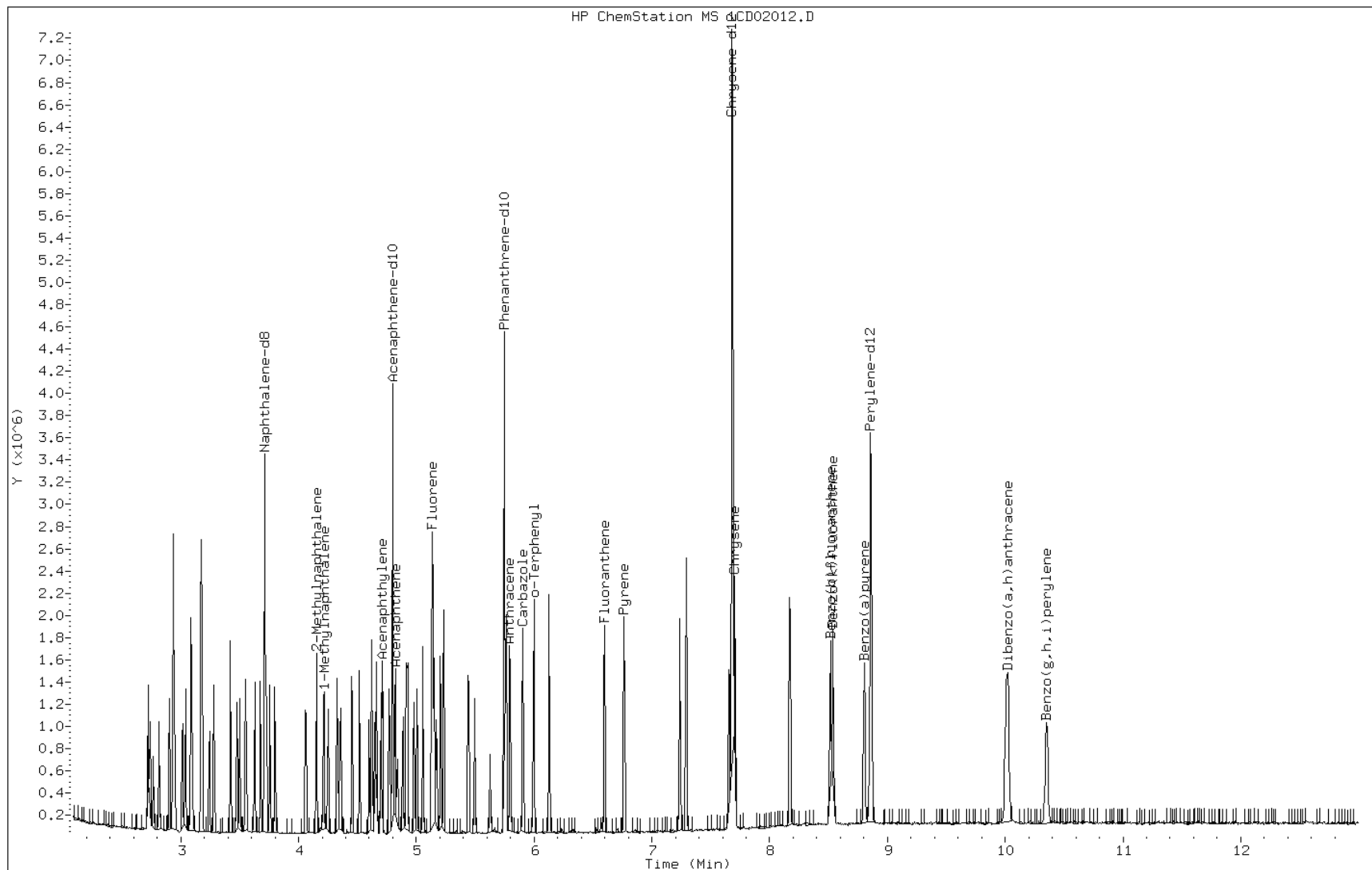
Date: 02-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

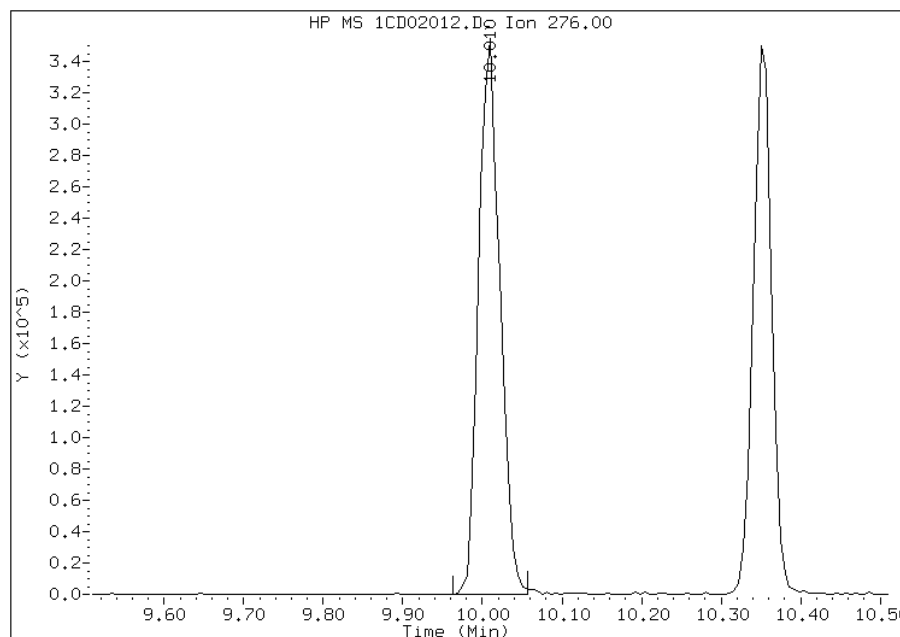


Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

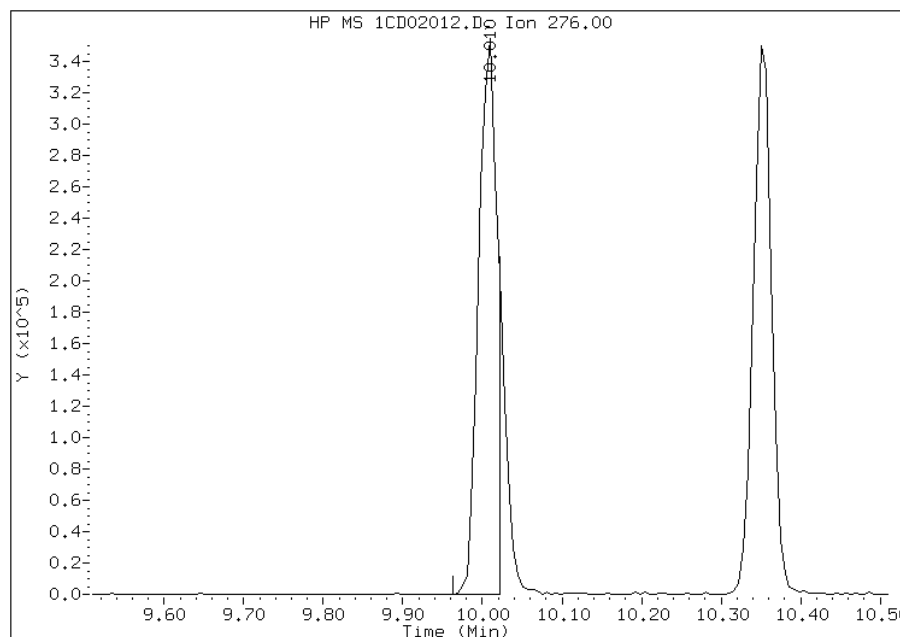
Processing Integration Results

RT: 10.01
Response: 653584
Amount: 20
Conc: 20



Manual Integration Results

RT: 10.01
Response: 571166
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: CCVIS 660-136079/3 Calibration Date: 04/02/2013 16:40
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD02015.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.074	0.0000	20900	20000	4.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.6951	0.0000	19900	20000	-0.6	20.0
1-Methylnaphthalene	Ave	0.6293	0.6346	0.0000	20200	20000	0.9	20.0
Acenaphthylene	Ave	1.656	1.679	0.0000	20300	20000	1.4	20.0
Acenaphthene	Lin	1.025	1.013	0.0000	19800	20000	-1.2	20.0
Fluorene	Ave	1.367	1.341	0.0000	19600	20000	-1.9	20.0
Phenanthrene	Ave	1.165	1.176	0.0000	20200	20000	1.0	20.0
Anthracene	Ave	1.181	1.208	0.0000	20500	20000	2.3	20.0
Carbazole	Ave	1.012	1.059	0.0000	20900	20000	4.7	20.0
Fluoranthene	Ave	1.287	1.296	0.0000	20100	20000	0.7	20.0
Pyrene	Ave	1.108	1.156	0.0000	20900	20000	4.4	20.0
Benzo[a]anthracene	Lin	1.278	1.098	0.0000	19100	20000	-4.6	20.0
Chrysene	Ave	1.140	1.171	0.0000	20500	20000	2.7	20.0
Benzo[b]fluoranthene	Ave	1.131	1.150	0.0000	20300	20000	1.7	20.0
Benzo[k]fluoranthene	Ave	1.094	1.092	0.0000	20000	20000	-0.2	20.0
Benzo[a]pyrene	Ave	1.065	1.031	0.0000	19400	20000	-3.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8889	0.0000	17600	20000	-12.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9786	0.0000	21000	20000	4.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.034	0.0000	20000	20000	0.2	20.0
o-Terphenyl	Lin	0.6233	0.6075	0.0000	19300	20000	-3.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02015.D
Lab Smp Id: CCVIS
Inj Date : 02-APR-2013 16:40
Operator : SCC
Smp Info : CCVIS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02015.D
Meth Date : 02-Apr-2013 16:55 cantins
Cal Date : 02-APR-2013 15:15
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CD02011.D

Continuing Calibration Sample

Compound Sublist: pah.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	497056	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	363517	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	670971	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	203804	20.0000	19.3344
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	842326	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	926334	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	266870	20.0000	20.9034
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	172748	20.0000	19.8776
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	157727	20.0000	20.1702
5 Acenaphthylene	152	4.710	4.710	(0.982)	305151	20.0000	20.2824
7 Acenaphthene	154	4.821	4.821	(1.005)	184057	20.0000	19.7518
9 Fluorene	166	5.139	5.139	(1.071)	243772	20.0000	19.6235
11 Phenanthrene	178	5.763	5.763	(1.003)	394579	20.0000	20.1915
12 Anthracene	178	5.798	5.798	(1.009)	405120	20.0000	20.4506
13 Carbazole	167	5.904	5.904	(1.028)	355357	20.0000	20.9380
15 Fluoranthene	202	6.598	6.598	(1.148)	434679	20.0000	20.1413
16 Pyrene	202	6.762	6.762	(0.880)	487068	20.0000	20.8745
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	462241	20.0000	19.0750
19 Chrysene	228	7.704	7.704	(1.002)	493245	20.0000	20.5496
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	532672	20.0000	20.3401
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	505787	20.0000	19.9688
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	477476	20.0000	19.3658
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	411689	20.0000	17.5798(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	453269	20.0000	20.9527
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	478868	20.0000	20.0354

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02015.D

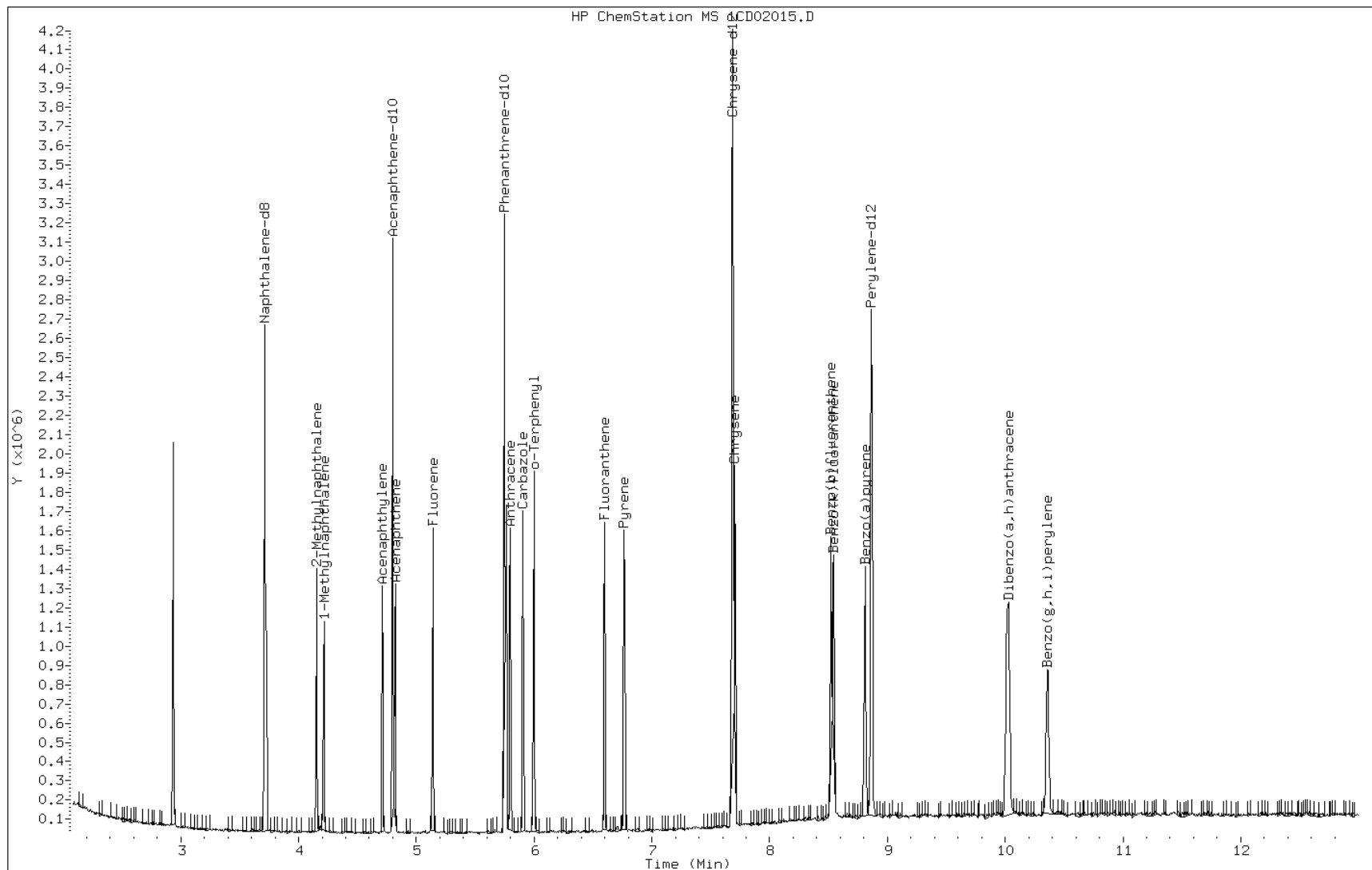
Date: 02-APR-2013 16:40

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS

Operator: SCC

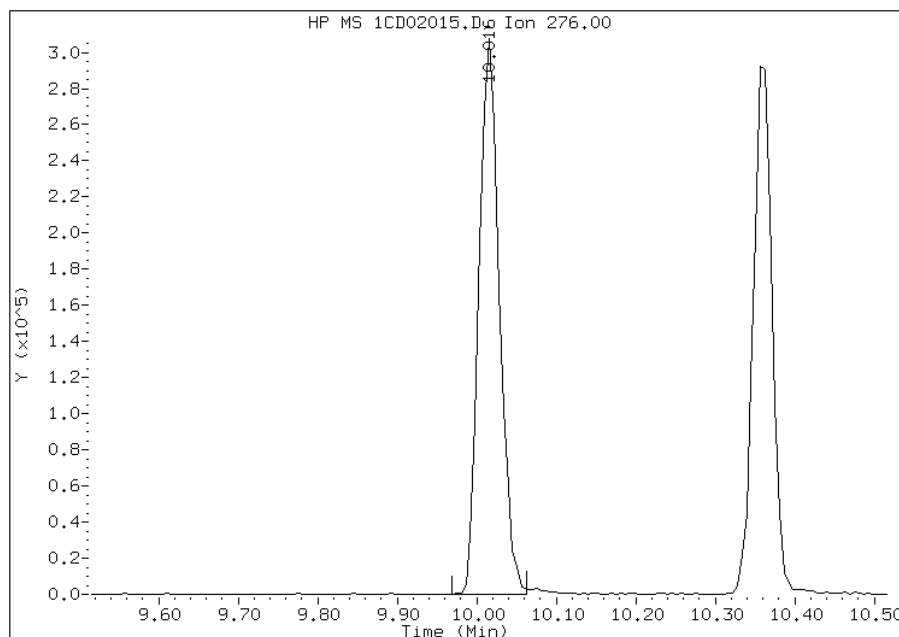


Manual Integration Report

Data File: 1CD02015.D
Inj. Date and Time: 02-APR-2013 16:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

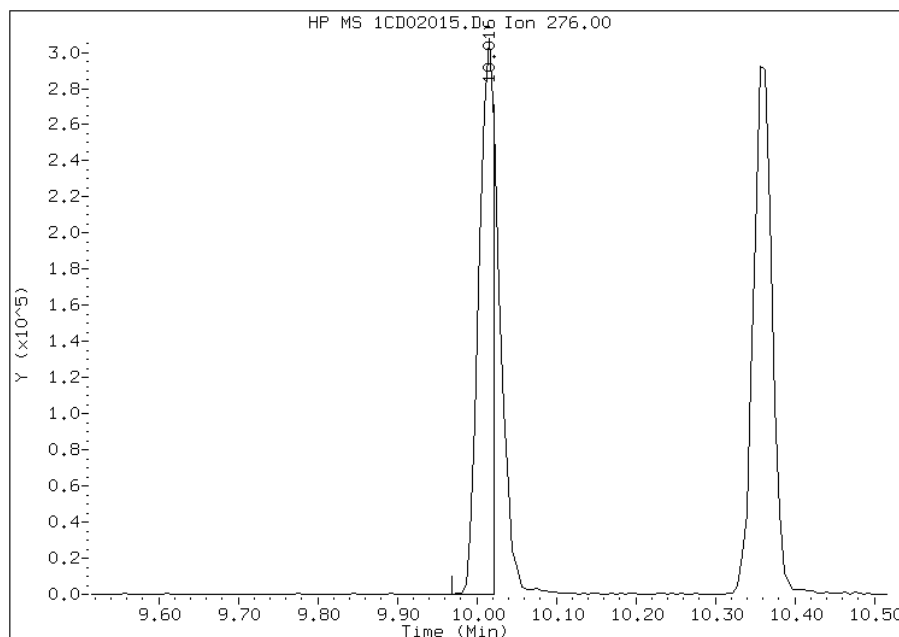
Processing Integration Results

RT: 10.02
Response: 545228
Amount: 23
Conc: 23



Manual Integration Results

RT: 10.02
Response: 411689
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 16:55
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: CCVIS 660-136081/3 Calibration Date: 04/03/2013 11:45
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.999	0.0000	19400	20000	-2.8	20.0
2-Methylnaphthalene	Ave	0.6994	0.6776	0.0000	19400	20000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6293	0.6430	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.656	1.706	0.0000	20600	20000	3.1	20.0
Acenaphthene	Lin	1.025	0.9817	0.0000	19100	20000	-4.3	20.0
Fluorene	Ave	1.367	1.328	0.0000	19400	20000	-2.9	20.0
Phenanthrene	Ave	1.165	1.152	0.0000	19800	20000	-1.1	20.0
Anthracene	Ave	1.181	1.140	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.311	0.0000	20400	20000	1.9	20.0
Pyrene	Ave	1.108	1.146	0.0000	20700	20000	3.5	20.0
Benzo[a]anthracene	Lin	1.278	1.115	0.0000	19400	20000	-3.1	20.0
Chrysene	Ave	1.140	1.082	0.0000	19000	20000	-5.1	20.0
Benzo[b]fluoranthene	Ave	1.131	1.174	0.0000	20800	20000	3.8	20.0
Benzo[k]fluoranthene	Ave	1.094	1.068	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.065	1.055	0.0000	19800	20000	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9599	0.0000	19000	20000	-5.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9411	0.0000	20200	20000	0.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.995	0.0000	19300	20000	-3.6	20.0
o-Terphenyl	Lin	0.6233	0.6314	0.0000	20100	20000	0.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03003.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 03-APR-2013 11:45
 Operator : SCC
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03003.D
 Meth Date : 03-Apr-2013 11:59 cantins
 Cal Date : 02-APR-2013 15:15
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CD02011.D

Continuing Calibration Sample

Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.704	3.704	(1.000)	500765	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	364027	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	687020	40.0000	
\$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	216882	20.0000	20.0659
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	857573	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	866012	40.0000	
2 Naphthalene	128	3.722	3.722	(1.005)	250131	20.0000	19.4472
3 2-Methylnaphthalene	142	4.145	4.145	(1.119)	169659	20.0000	19.3776
4 1-Methylnaphthalene	142	4.210	4.210	(1.137)	161005	20.0000	20.4368
5 Acenaphthylene	152	4.704	4.704	(0.982)	310521	20.0000	20.6104
7 Acenaphthene	154	4.816	4.816	(1.005)	178686	20.0000	19.1486
9 Fluorene	166	5.133	5.133	(1.071)	241638	20.0000	19.4245
11 Phenanthrene	178	5.757	5.757	(1.003)	395730	20.0000	19.7773
12 Anthracene	178	5.792	5.792	(1.009)	391504	20.0000	19.3016
13 Carbazole	167	5.898	5.898	(1.028)	354598	20.0000	20.4052
15 Fluoranthene	202	6.592	6.592	(1.149)	450430	20.0000	20.3836
16 Pyrene	202	6.757	6.757	(0.880)	491523	20.0000	20.6909
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	478063	20.0000	19.3750
19 Chrysene	228	7.698	7.698	(1.002)	463959	20.0000	18.9858
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	508197	20.0000	20.7572
21 Benzo(k)fluoranthene	252	8.533	8.533	(0.964)	462286	20.0000	19.5227
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	456933	20.0000	19.8234
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	415659	20.0000	18.9857(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	407517	20.0000	20.1500
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	431010	20.0000	19.2892

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03003.D

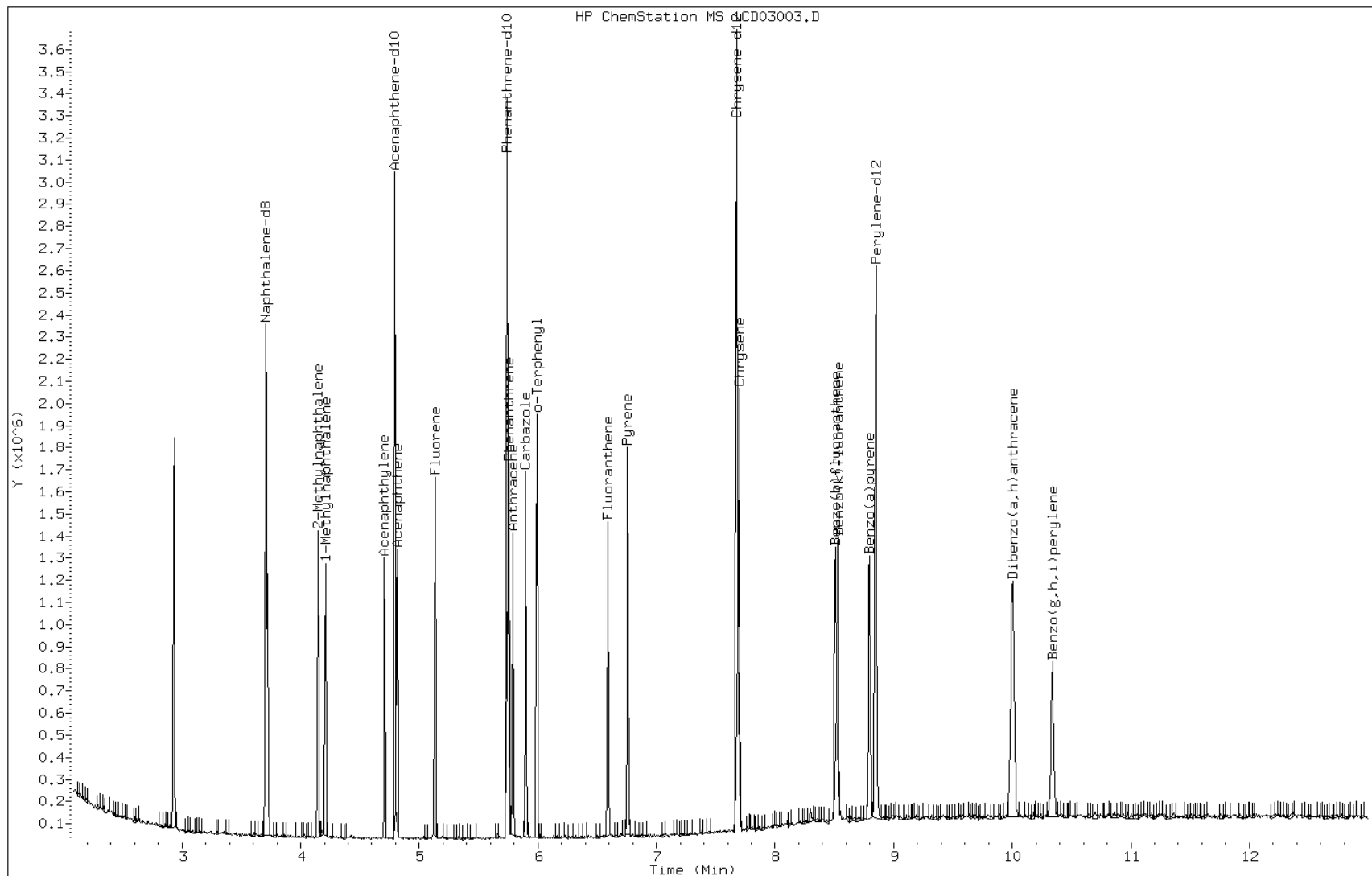
Date: 03-APR-2013 11:45

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

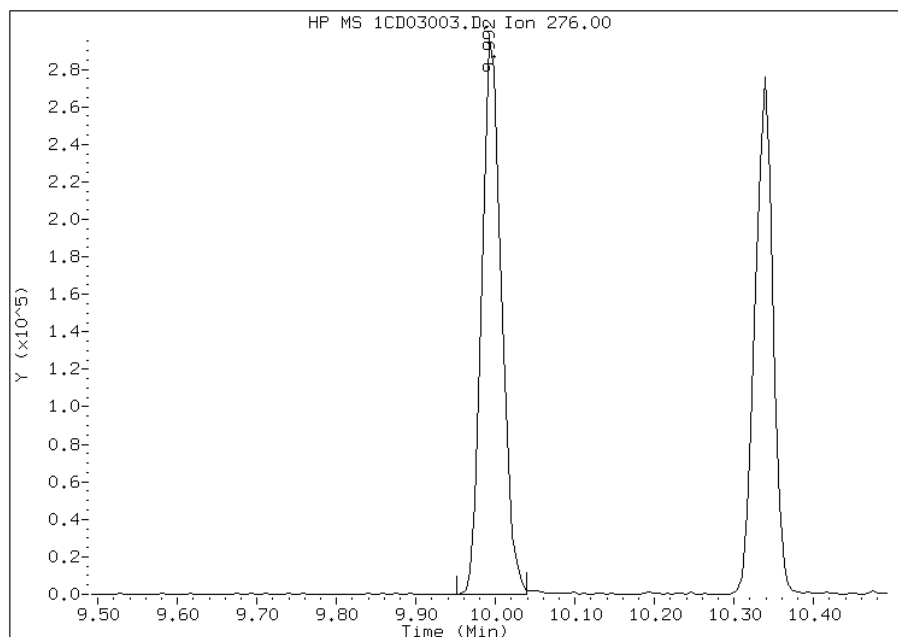


Manual Integration Report

Data File: 1CD03003.D
Inj. Date and Time: 03-APR-2013 11:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

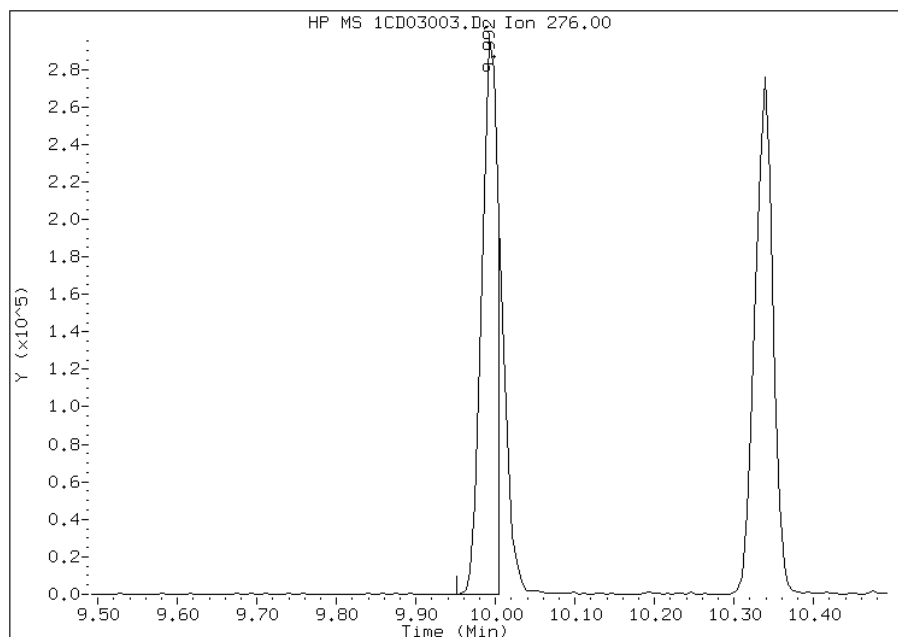
Processing Integration Results

RT: 9.99
Response: 506304
Amount: 23
Conc: 23



Manual Integration Results

RT: 9.99
Response: 415659
Amount: 19
Conc: 19



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 11:59
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28
 Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH
Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.186	6.188	(1.000)		3227519	40.0000	
* 6 Acenaphthene-d10	164		7.861	7.856	(1.000)		1973397	40.0000	
* 9 Phenanthrene-d10	188		9.118	9.114	(1.000)		3226971	40.0000	
\$ 13 o-Terphenyl	230		9.424	9.431	(1.034)		842705	16.8872	17
* 17 Chrysene-d12	240		11.463	11.464	(1.000)		3262056	40.0000	
* 22 Perylene-d12	264		13.343	13.344	(1.000)		3389756	40.0000	
2 Naphthalene	128		6.204	6.205	(1.003)		1534495	17.7730	18
3 2-Methylnaphthalene	142		6.903	6.910	(1.116)		990529	18.0102	18
4 1-Methylnaphthalene	142		6.997	6.999	(1.131)		949525	18.4366	18
5 Acenaphthylene	152		7.732	7.733	(0.984)		1522763	17.5026	18
7 Acenaphthene	154		7.884	7.886	(1.003)		892518	16.8249	17
8 Fluorene	166		8.325	8.326	(1.059)		1091870	17.6166	18
10 Phenanthrene	178		9.136	9.137	(1.002)		1561459	17.0459	17
11 Anthracene	178		9.177	9.184	(1.006)		1600546	17.4635	17
12 Carbazole	167		9.324	9.313	(1.023)		1373599	16.7651	17(M)
14 Fluoranthene	202		10.117	10.124	(1.110)		1683952	17.6156	18
15 Pyrene	202		10.305	10.312	(0.899)		1697011	16.7712	17

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

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

Data File: 1DB22010.D

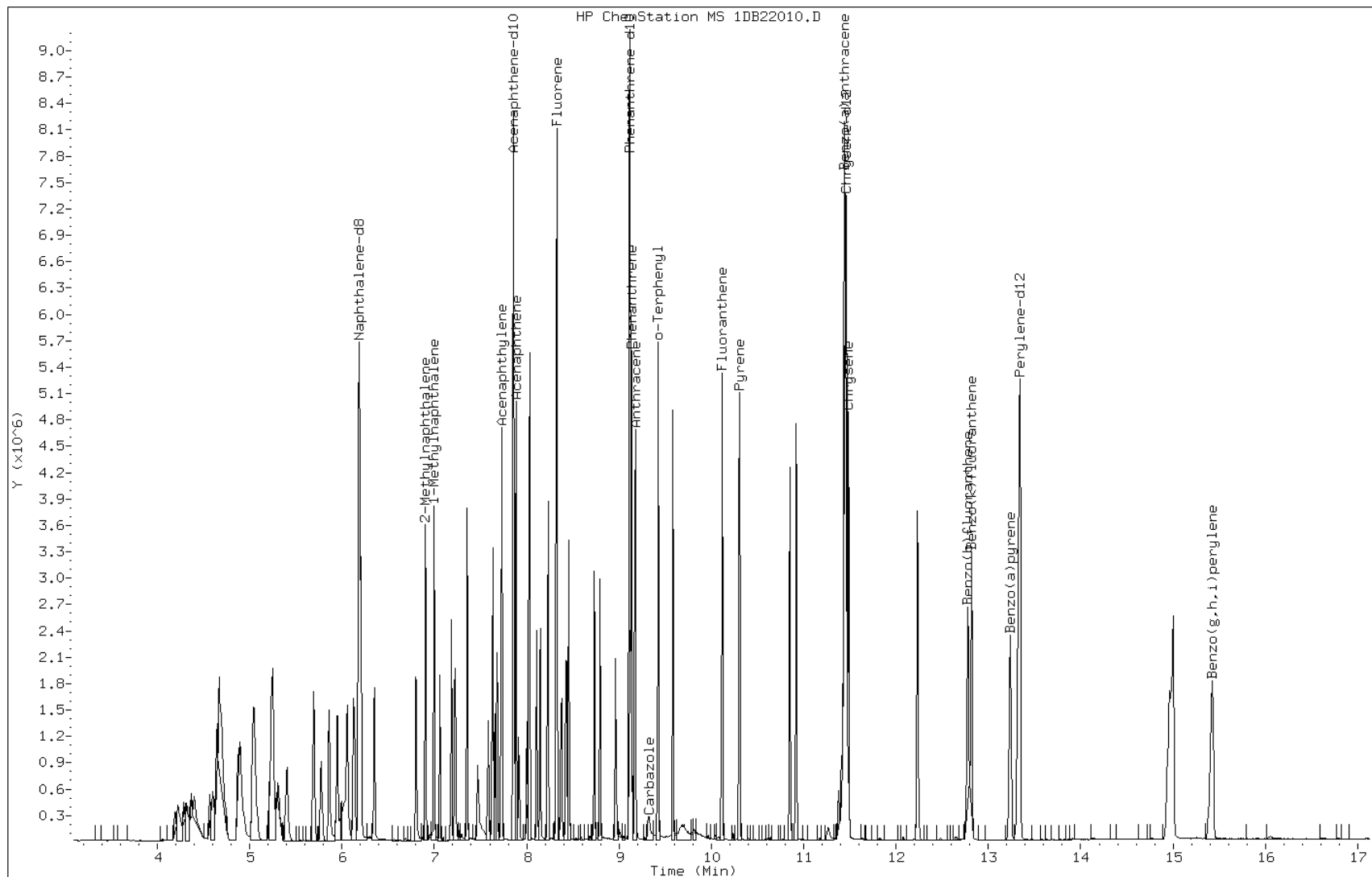
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

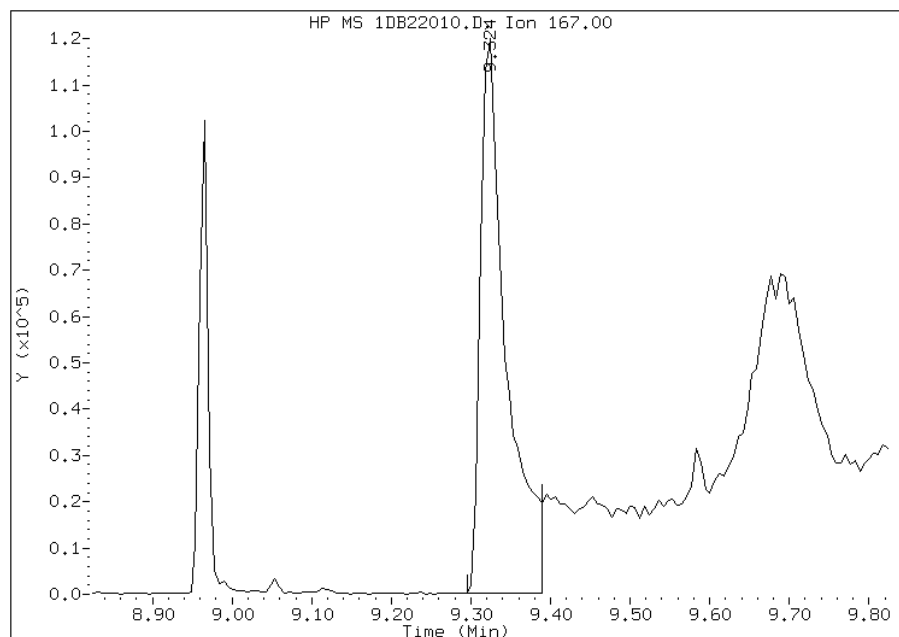


Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

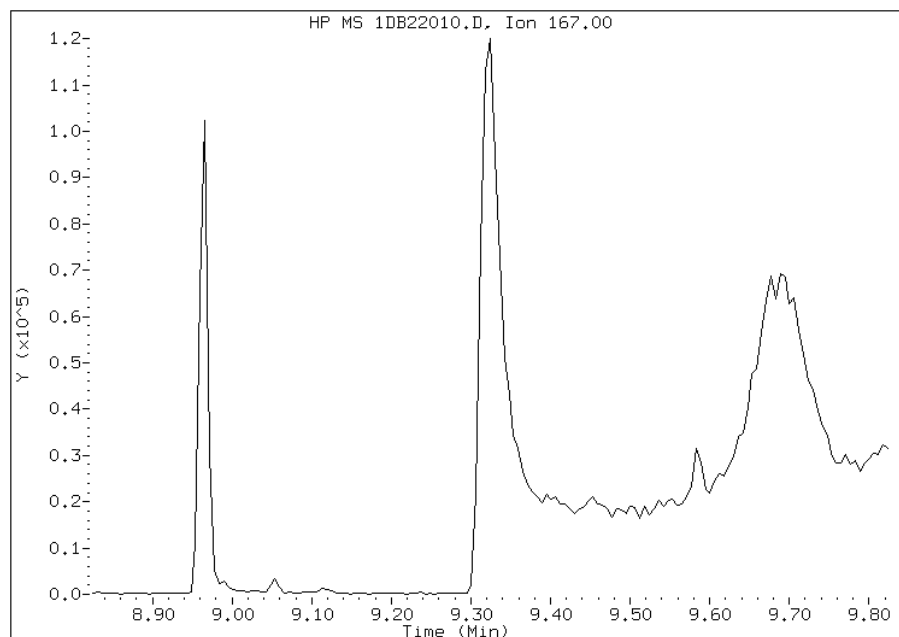
Processing Integration Results

RT: 9.32
Response: 270307
Amount: 3
Conc: 3



Manual Integration Results

RT: 9.32
Response: 1373599
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
 SDG No.: 68088632-3
 Lab Sample ID: CCVIS 660-136046/7 Calibration Date: 04/02/2013 12:39
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28
 Lab File ID: 1DD02007.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.021	0.0000	19100	20000	-4.6	20.0
2-Methylnaphthalene	Ave	0.6816	0.6644	0.0000	19500	20000	-2.5	20.0
1-Methylnaphthalene	Ave	0.6383	0.6272	0.0000	19700	20000	-1.7	20.0
Acenaphthylene	Ave	1.764	1.676	0.0000	19000	20000	-5.0	20.0
Acenaphthene	Ave	1.075	1.019	0.0000	19000	20000	-5.2	20.0
Fluorene	Ave	1.256	1.219	0.0000	19400	20000	-3.0	20.0
Phenanthrene	Ave	1.135	1.070	0.0000	18900	20000	-5.7	20.0
Anthracene	Ave	1.136	1.097	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.016	0.9496	0.0000	18700	20000	-6.5	20.0
Fluoranthene	Ave	1.185	1.133	0.0000	19100	20000	-4.4	20.0
Pyrene	Ave	1.241	1.186	0.0000	19100	20000	-4.4	20.0
Benzo[a]anthracene	LinF	1.184	1.031	0.0000	18800	20000	-5.9	20.0
Chrysene	Ave	1.131	1.046	0.0000	18500	20000	-7.5	20.0
Benzo[b]fluoranthene	Ave	1.030	0.996	0.0000	19400	20000	-3.2	20.0
Benzo[k]fluoranthene	Ave	1.078	1.005	0.0000	18700	20000	-6.7	20.0
Benzo[a]pyrene	Ave	1.019	0.9856	0.0000	19300	20000	-3.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.070	0.0000	19700	20000	-1.6	20.0
Dibenz(a,h)anthracene	Ave	1.004	0.9756	0.0000	19400	20000	-2.8	20.0
Benzo[g,h,i]perylene	Ave	1.037	0.9756	0.0000	18800	20000	-5.9	20.0
o-Terphenyl	Ave	0.6186	0.5966	0.0000	19300	20000	-3.5	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02007.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 02-APR-2013 12:39
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\dFASTPAHi.m
 Meth Date : 02-Apr-2013 13:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 6 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					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.092	6.092	(1.000)	3073330	40.0000	(H)
* 6 Acenaphthene-d10	164	7.773	7.773	(1.000)	1924753	40.0000	(H)
* 9 Phenanthrene-d10	188	9.036	9.036	(1.000)	3200814	40.0000	(H)
\$ 13 o-Terphenyl	230	9.342	9.342	(1.034)	954866	20.0000	19(H)
* 17 Chrysene-d12	240	11.363	11.363	(1.000)	3243813	40.0000	(H)
* 22 Perylene-d12	264	13.208	13.208	(1.000)	3280597	40.0000	(H)
2 Naphthalene	128	6.116	6.116	(1.004)	1568771	20.0000	19(H)
3 2-Methylnaphthalene	142	6.821	6.821	(1.120)	1020910	20.0000	19(H)
4 1-Methylnaphthalene	142	6.915	6.915	(1.135)	963739	20.0000	20(H)
5 Acenaphthylene	152	7.644	7.644	(0.983)	1612975	20.0000	19(H)
7 Acenaphthene	154	7.796	7.796	(1.003)	980495	20.0000	19(H)
8 Fluorene	166	8.243	8.243	(1.060)	1173069	20.0000	19(H)
10 Phenanthrene	178	9.054	9.054	(1.002)	1713035	20.0000	19(H)
11 Anthracene	178	9.095	9.095	(1.007)	1755173	20.0000	19(H)
12 Carbazole	167	9.230	9.230	(1.021)	1519799	20.0000	19(H)
14 Fluoranthene	202	10.035	10.035	(1.111)	1812514	20.0000	19(H)
15 Pyrene	202	10.223	10.223	(0.900)	1923484	20.0000	19(H)
16 Benzo(a)anthracene	228	11.339	11.339	(0.998)	1672174	20.0000	19(H)
18 Chrysene	228	11.386	11.386	(1.002)	1695795	20.0000	18(H)
19 Benzo(b)fluoranthene	252	12.655	12.655	(0.958)	1634117	20.0000	19(H)
20 Benzo(k)fluoranthene	252	12.696	12.696	(0.961)	1649274	20.0000	19(H)
21 Benzo(a)pyrene	252	13.114	13.114	(0.993)	1616737	20.0000	19(H)
23 Indeno(1,2,3-cd)pyrene	276	14.812	14.812	(1.121)	1755372	20.0000	20(MH)
24 Dibenzo(a,h)anthracene	278	14.841	14.841	(1.124)	1600303	20.0000	19(H)
25 Benzo(g,h,i)perylene	276	15.258	15.258	(1.155)	1600302	20.0000	19(H)

QC Flag Legend

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

Data File: 1DD02007.D

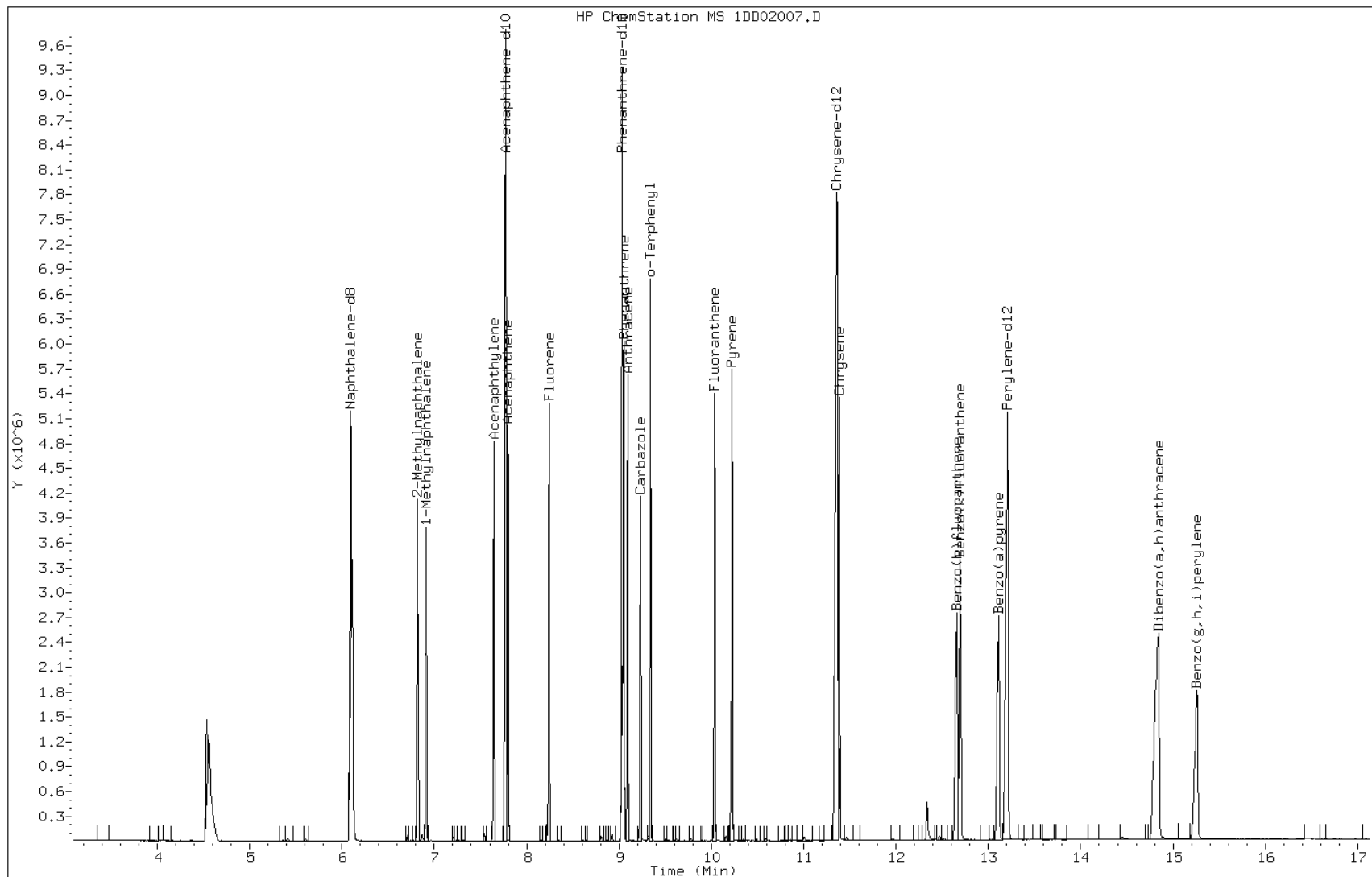
Date: 02-APR-2013 12:39

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC



Manual Integration Report

Data File: 1DD02007.D
Inj. Date and Time: 02-APR-2013 12:39
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

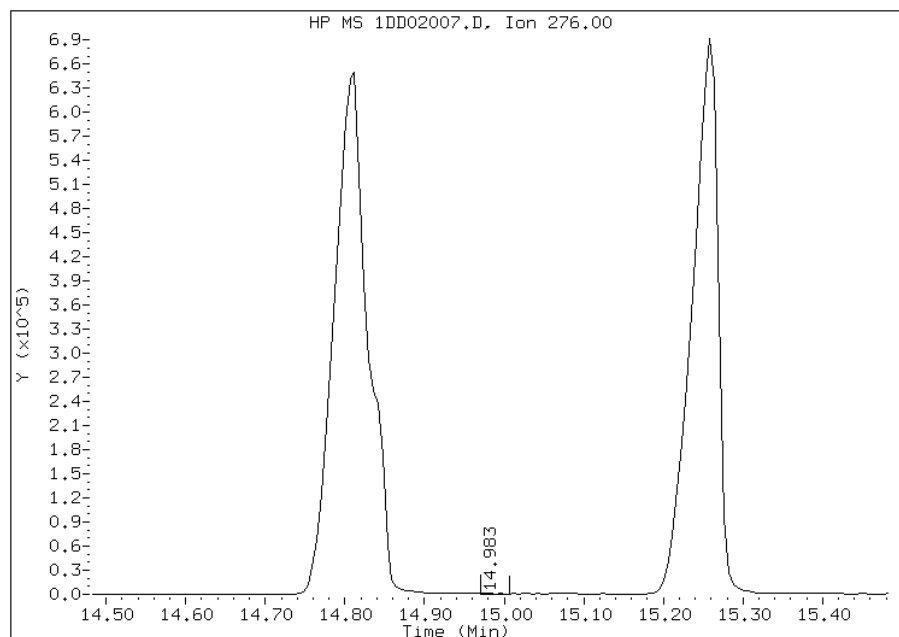
Processing Integration Results

RT: 14.98

Response: 737

Amount: 0

Conc: 0



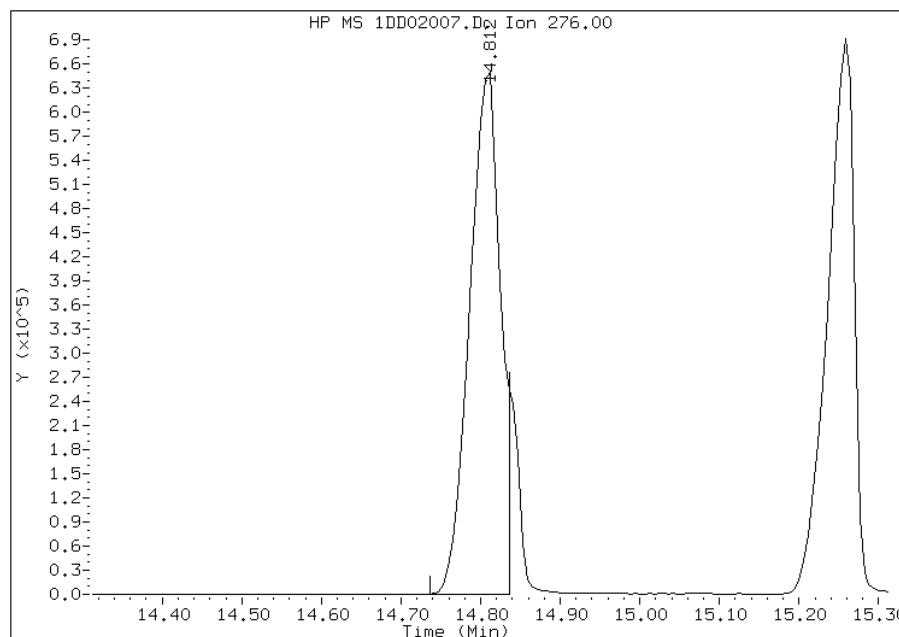
Manual Integration Results

RT: 14.81

Response: 1755372

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 13:06
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-FEB-2013 11:41
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

					CONCENTRATIONS					
					ON-COL	FINAL				
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====		=====	
1 dftpp					CAS #: 5074-71-5					
7.404	7.469	-0.065	198	73440			50.00-	0.00	100.00	
7.404	7.469	-0.065	51	31096			10.00-	80.00	42.34	
7.404	7.469	-0.065	68	471			0.00-	2.00	1.08	
7.404	7.469	-0.065	69	43512			0.00-	0.00	59.25	
7.404	7.469	-0.065	70	192			0.00-	2.00	0.44	
7.404	7.469	-0.065	127	39368			10.00-	80.00	53.61	
7.404	7.469	-0.065	197	733			0.00-	2.00	1.00	
7.404	7.469	-0.065	442	38240			50.00-	0.00	52.07	
7.404	7.469	-0.065	199	6330			5.00-	9.00	8.62	
7.404	7.469	-0.065	275	14104			10.00-	60.00	19.20	
7.404	7.469	-0.065	365	1462			1.00-	0.00	1.99	
7.404	7.469	-0.065	441	5496			0.01-	99.99	86.06	
7.404	7.469	-0.065	443	6386			15.00-	24.00	16.70	

Data File: 1CB22002.D

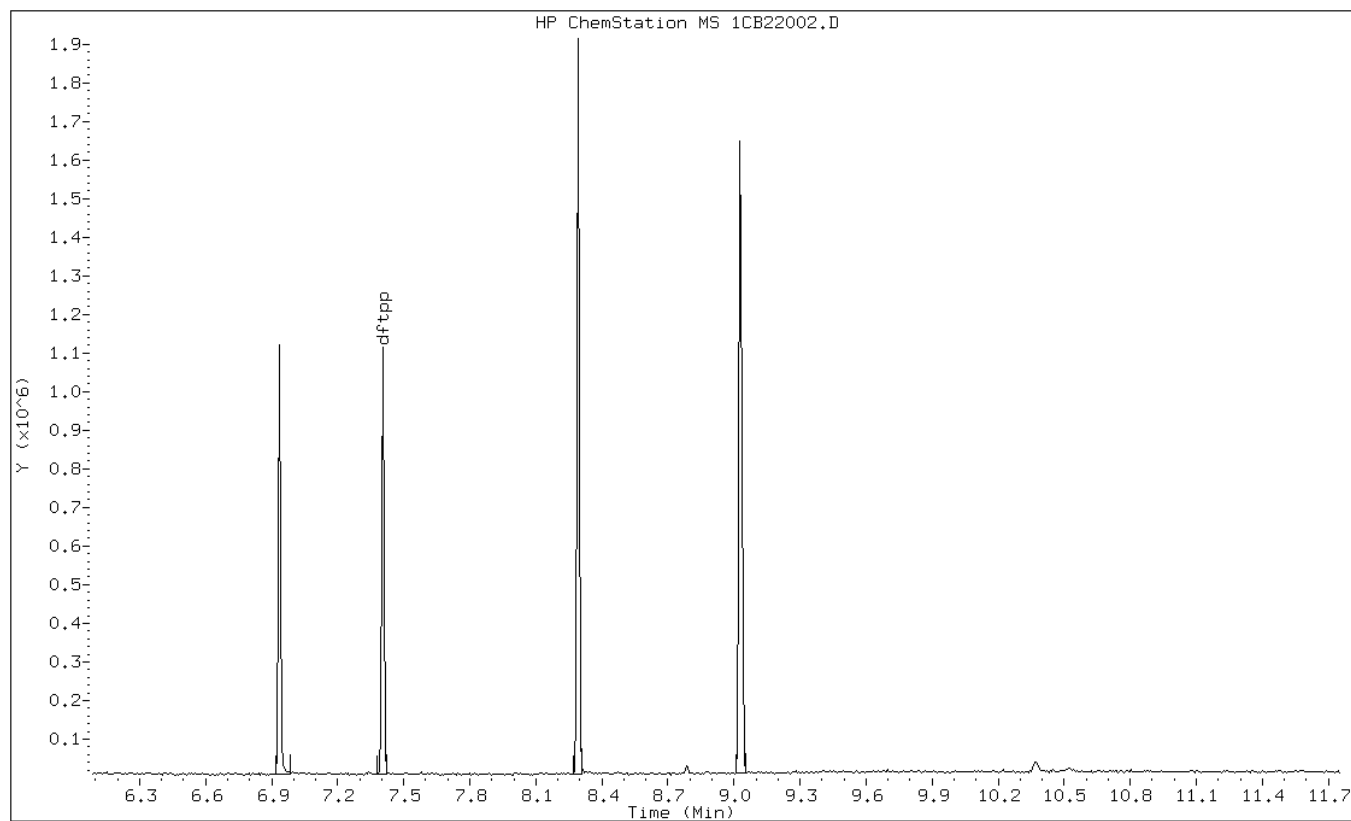
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

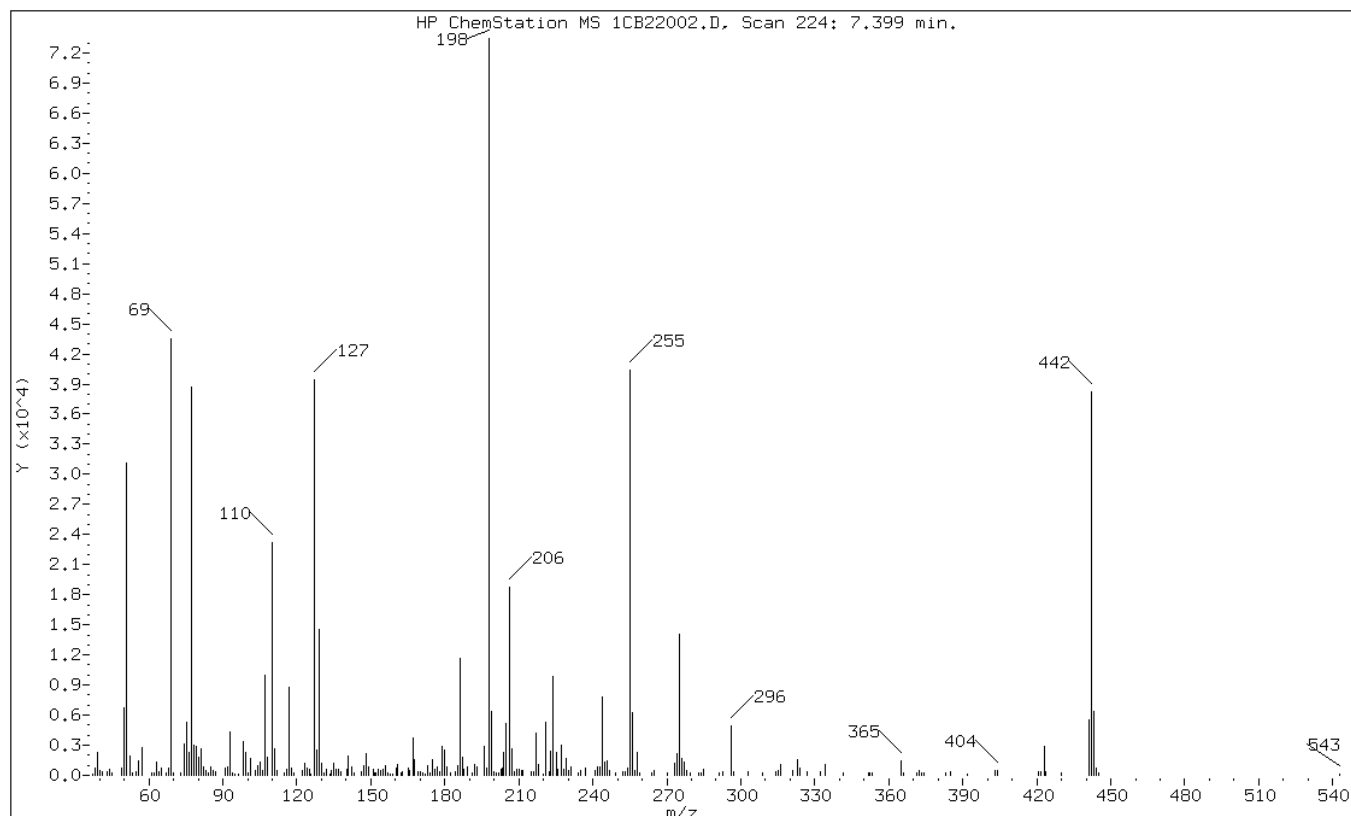
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D
Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
+-----+							
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
+-----+							
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
+-----+							
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		
+-----+							

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Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 01-APR-2013 11:14
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.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				
7.316	7.469	-0.153	198	202560			50.00-	0.00	100.00
7.316	7.469	-0.153	51	63952			10.00-	80.00	31.57
7.316	7.469	-0.153	68	1419			0.00-	2.00	1.60
7.316	7.469	-0.153	69	88712			0.00-	0.00	43.80
7.316	7.469	-0.153	70	356			0.00-	2.00	0.40
7.316	7.469	-0.153	127	93064			10.00-	80.00	45.94
7.316	7.469	-0.153	197	0	0.0	0.0	0.00-	2.00	0.00
7.316	7.469	-0.153	442	190336			50.00-	0.00	93.97
7.316	7.469	-0.153	199	13258			5.00-	9.00	6.55
7.316	7.469	-0.153	275	50288			10.00-	60.00	24.83
7.316	7.469	-0.153	365	7925			1.00-	0.00	3.91
7.316	7.469	-0.153	441	30240			0.01-	99.99	81.24
7.316	7.469	-0.153	443	37224			15.00-	24.00	19.56

Data File: 1CD01002.D

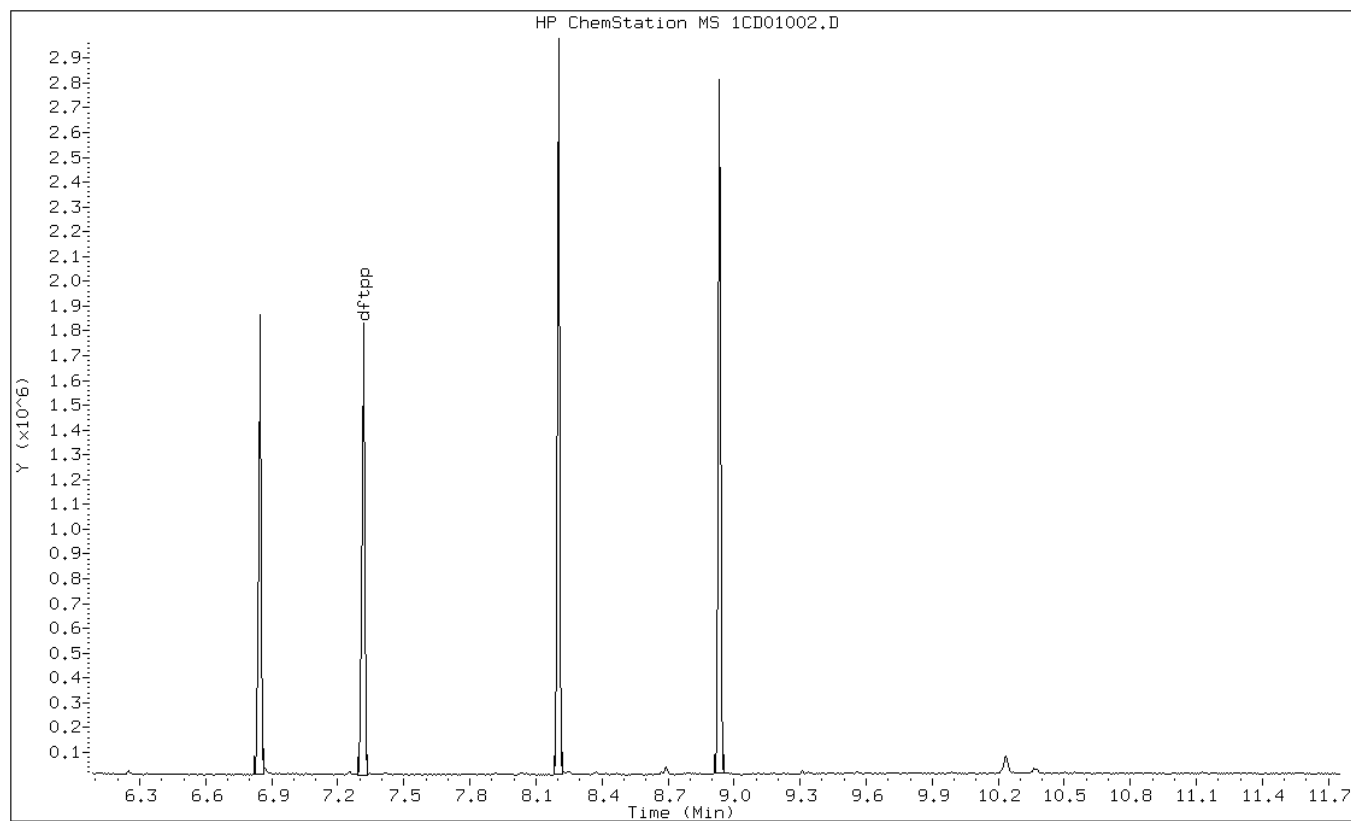
Date: 01-APR-2013 11:14

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CD01002.D

Date: 01-APR-2013 11:14

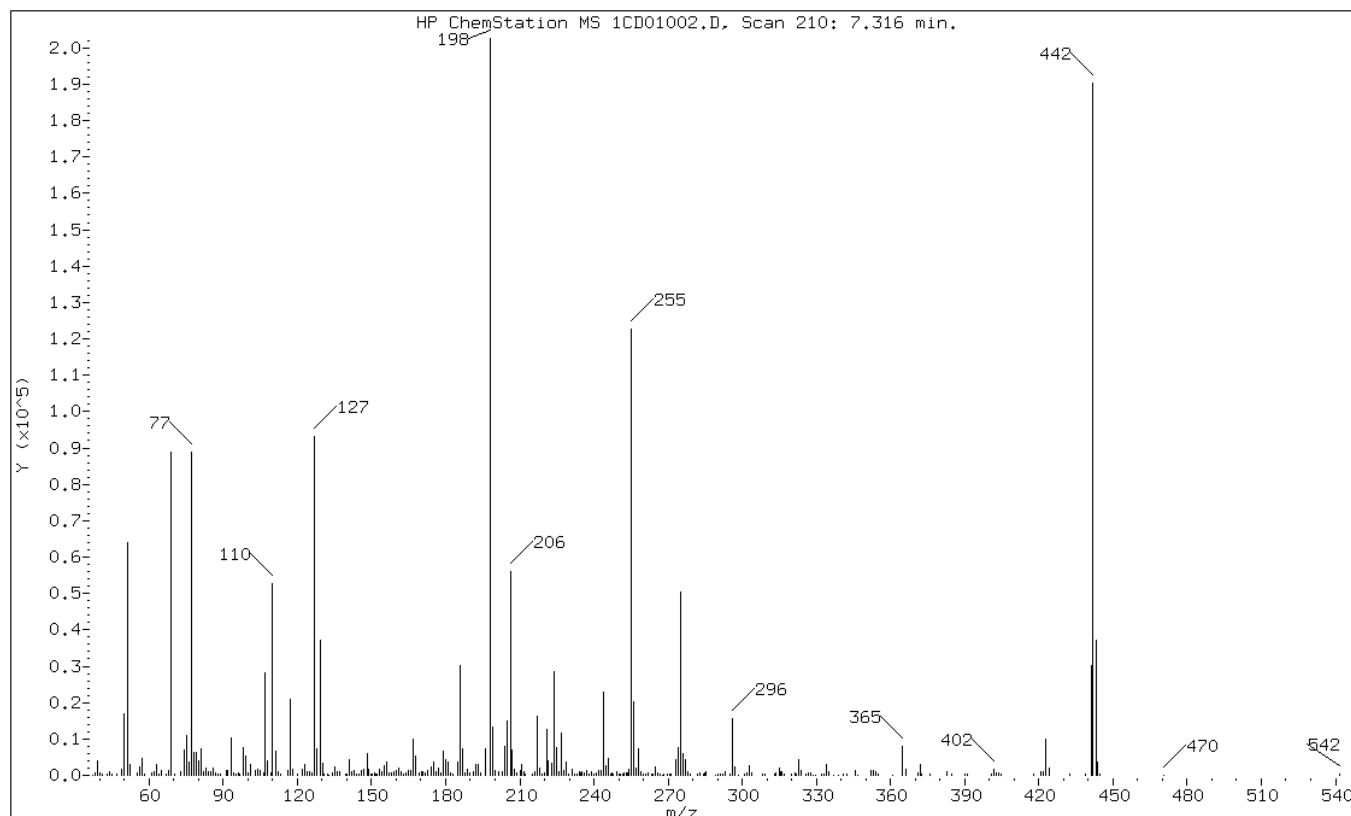
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.57
68	Less than 2.00% of mass 69	0.70 (1.60)
69	Mass 69 relative abundance	43.80
70	Less than 2.00% of mass 69	0.18 (0.40)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	93.97
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 60.00% of mass 198	24.83
365	Greater than 1.00% of mass 198	3.91
441	Present, but less than mass 443	14.93
443	15.00 - 24.00% of mass 442	18.38 (19.56)

Data File: 1CD01002.D

Date: 01-APR-2013 11:14

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01002.D
Spectrum: HP ChemStation MS 1CD01002.D, Scan 210: 7.316 min.
Location of Maximum: 198.00
Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	153	130.10	3353	210.20	1195	289.00	151
38.10	546	130.80	370	210.90	2894	290.00	313
39.10	3912	132.30	175	211.70	908	291.00	224
40.00	597	132.70	165	212.30	336	292.10	403
41.00	245	134.00	509	214.90	333	292.90	895
43.10	190	135.10	2404	216.00	988	295.00	420
44.10	1029	136.00	1137	217.00	16300	296.10	15666
44.90	348	137.00	960	218.00	2090	296.90	2296
46.90	166	139.80	351	218.90	253	298.30	150
48.90	1495	140.10	351	220.10	793	300.90	274
50.10	16792	140.90	4251	221.00	12706	302.00	585
51.10	63952	142.00	838	221.60	4045	303.00	2538
52.10	2921	143.00	1405	223.00	3416	303.90	516
55.10	664	144.10	195	224.00	28448	308.00	464
56.10	2419	145.10	233	225.10	7698	309.10	238
57.10	4564	146.10	1342	225.80	996	313.00	222
58.00	370	146.90	1823	227.00	11721	313.70	657
60.90	663	148.10	6043	227.90	1420	315.00	1924
62.10	941	149.00	1597	229.00	3775	315.70	878
63.10	3032	149.80	261	229.90	375	316.00	900
63.90	359	150.20	358	231.10	1562	316.80	302
64.20	370	151.20	812	232.00	391	320.10	172
65.00	1405	151.70	287	233.00	171	321.20	498
67.10	300	152.20	193	234.00	874	322.00	414
67.80	1419	153.00	1767	234.80	819	323.00	4402
69.00	88712	154.10	1131	235.00	830	324.00	1165
70.20	356	155.10	2579	235.90	660	326.00	241
73.00	900	156.00	3603	236.90	1162	326.80	738
74.10	6968	156.90	386	238.20	218	327.90	622
75.00	11076	157.20	507	239.00	912	328.90	152
76.10	3533	158.00	585	240.00	188	329.90	164
77.10	88880	158.90	895	241.10	724	331.90	352
78.10	6431	159.90	1310	242.10	1272	332.90	297
79.00	6257	161.10	2117	243.00	1206	334.00	3085
80.00	3843	162.00	1132	244.10	22928	334.90	1043
81.10	7286	163.00	374	245.00	2551	337.00	152
81.90	1010	164.10	728	246.00	4787	338.90	152
83.10	2029	165.10	1357	246.80	315	341.10	170
84.00	842	166.00	1402	247.30	532	342.20	316
85.10	841	167.10	9927	247.70	381	345.80	1380

86.00	1872	168.00	5238	249.00	1037	346.80	157
87.10	716	169.10	821	250.30	397	352.00	1419
87.80	313	170.20	882	250.90	266	353.00	1283
88.80	266	170.90	900	251.60	429	354.00	932
91.10	1368	171.80	602	252.00	633	355.10	235
92.00	1407	172.90	1410	253.00	572	360.70	156
93.10	10302	174.00	2475	253.40	571	365.00	7925
94.10	563	175.00	3660	254.10	1589	366.00	1792
95.10	255	175.90	1037	255.00	122672	371.00	681
96.10	531	177.00	1907	256.00	20264	372.10	3143
96.90	258	178.00	743	257.00	1980	372.80	255
98.10	7688	179.00	6488	258.10	7327	376.20	171
99.00	5316	180.00	4475	259.10	904	383.00	988
100.10	584	181.00	3648	260.10	187	384.80	359
101.00	3145	182.00	500	260.80	278	389.90	232
102.90	1395	182.80	274	262.00	511	391.10	217
104.10	1688	185.10	3543	263.60	192	400.70	411
105.10	1404	186.10	30032	264.10	226	401.90	1509
106.20	775	187.00	7248	265.00	2417	402.80	778
107.10	28072	187.90	513	266.00	768	403.90	642
108.00	3949	188.90	1656	267.00	344	404.70	242
109.20	767	190.00	599	267.70	164	417.70	173
110.00	52832	191.00	1051	268.20	181	421.00	977
111.10	6781	192.00	3091	269.90	238	422.00	1090
112.10	1106	193.00	2854	270.50	206	423.00	10085
113.00	383	194.00	766	271.10	377	424.00	1951
116.00	1267	196.00	7211	273.00	4235	432.30	244
117.00	20992	198.00	202560	274.00	7760	438.80	167
118.00	1506	199.00	13258	275.00	50288	441.10	30240
120.00	377	200.00	1463	276.00	5934	442.00	190336
122.10	1728	201.60	1145	277.00	4210	443.00	37224
123.00	3059	203.10	1102	278.00	877	443.90	3510
124.00	1026	204.10	7915	278.80	278	444.60	230
125.10	840	205.00	14856	282.00	311	470.60	163
125.70	710	206.10	56032	283.10	513	541.70	419
127.10	93064	207.00	7047	284.10	336		
128.10	7323	208.00	1693	284.80	794		
129.10	37000	208.80	525	285.20	952		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 02-APR-2013 11:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

					CONCENTRATIONS				
				ON-COL	FINAL				
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
1 dftpp				CAS #: 5074-71-5					
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00	
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89	
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62	
7.310	7.469	-0.159	69	35176			0.00- 0.00	49.94	
7.310	7.469	-0.159	70	308			0.00- 2.00	0.88	
7.310	7.469	-0.159	127	29688			10.00- 80.00	42.15	
7.310	7.469	-0.159	197	310			0.00- 2.00	0.44	
7.310	7.469	-0.159	442	39944			50.00- 0.00	56.71	
7.310	7.469	-0.159	199	5383			5.00- 9.00	7.64	
7.310	7.469	-0.159	275	15117			10.00- 60.00	21.46	
7.310	7.469	-0.159	365	2390			1.00- 0.00	3.39	
7.310	7.469	-0.159	441	7169			0.01- 99.99	92.67	
7.310	7.469	-0.159	443	7736			15.00- 24.00	19.37	

Data File: 1CD02002.D

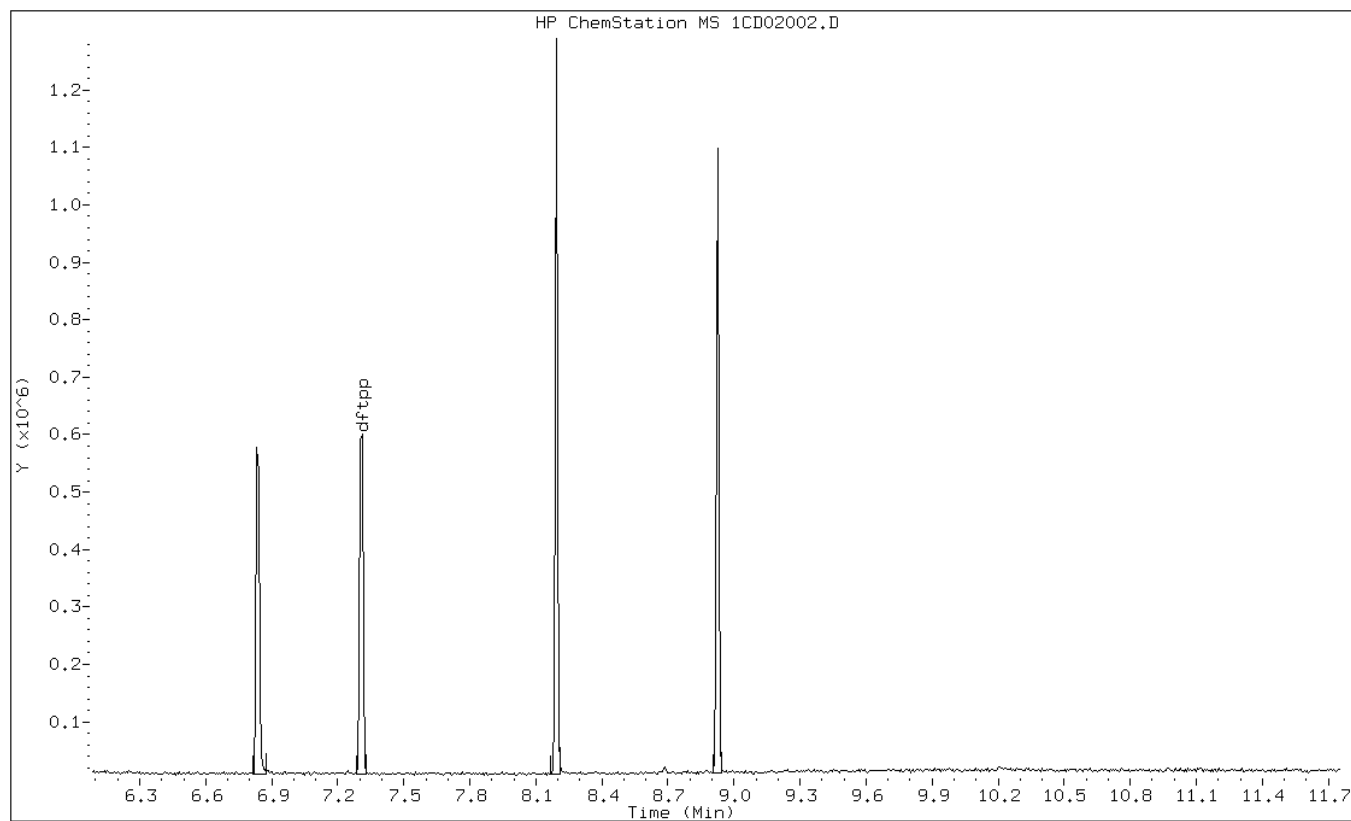
Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD02002.D

Date: 02-APR-2013 11:31

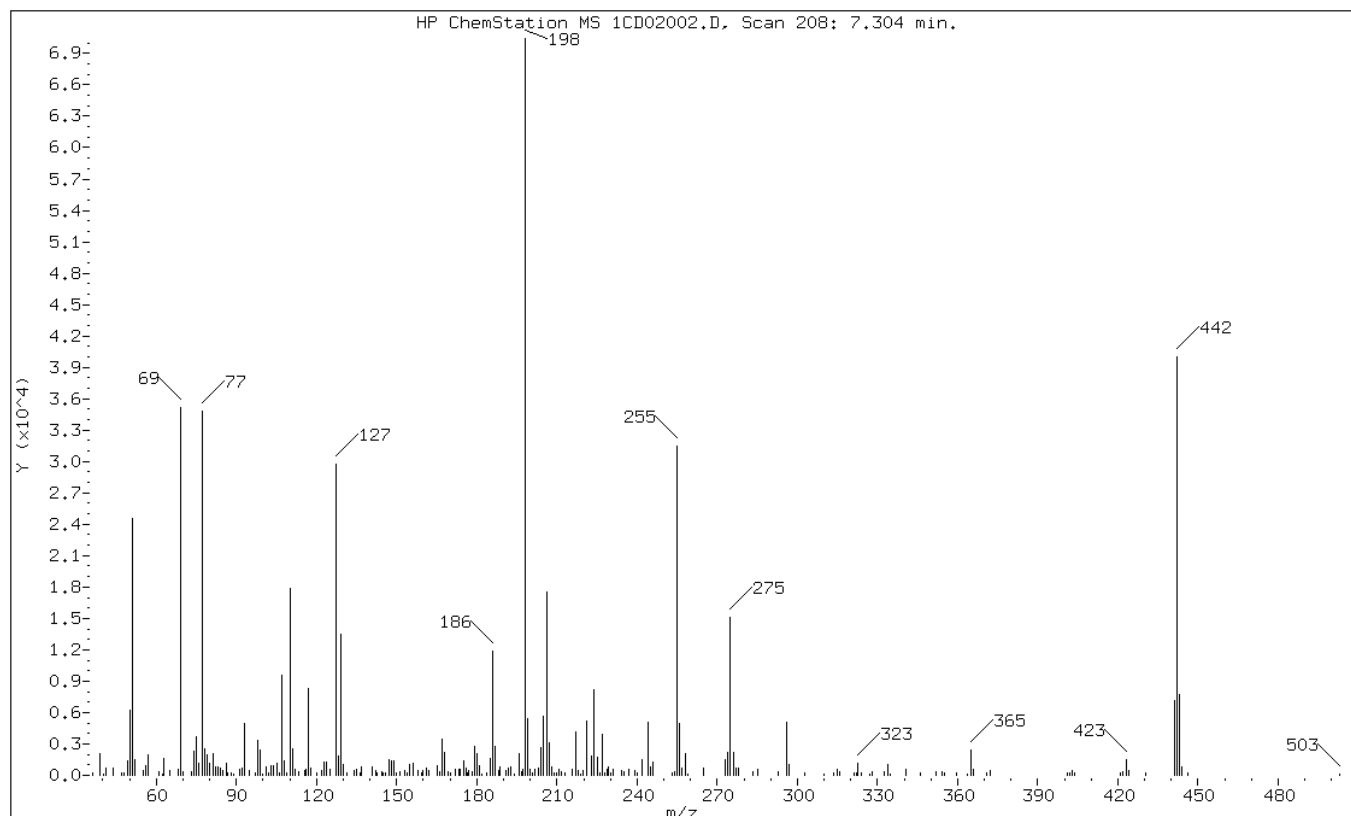
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
+-----+-----+-----+-----+-----+-----+-----+-----+							
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
+-----+-----+-----+-----+-----+-----+-----+-----+							
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02014.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 02-APR-2013 16:23
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 13 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
					ON-COL	FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====		=====
1 dftpp					CAS #: 5074-71-5				
7.310	7.469	-0.159	198	73584			50.00-	0.00	100.00
7.310	7.469	-0.159	51	23816			10.00-	80.00	32.37
7.310	7.469	-0.159	68	194			0.00-	2.00	0.55
7.310	7.469	-0.159	69	35080			0.00-	0.00	47.67
7.310	7.469	-0.159	70	232			0.00-	2.00	0.66
7.310	7.469	-0.159	127	36256			10.00-	80.00	49.27
7.310	7.469	-0.159	197	676			0.00-	2.00	0.92
7.310	7.469	-0.159	442	63944			50.00-	0.00	86.90
7.310	7.469	-0.159	199	4868			5.00-	9.00	6.62
7.310	7.469	-0.159	275	17632			10.00-	60.00	23.96
7.310	7.469	-0.159	365	2684			1.00-	0.00	3.65
7.310	7.469	-0.159	441	7480			0.01-	99.99	53.25
7.310	7.469	-0.159	443	14047			15.00-	24.00	21.97

Data File: 1CD02014.D

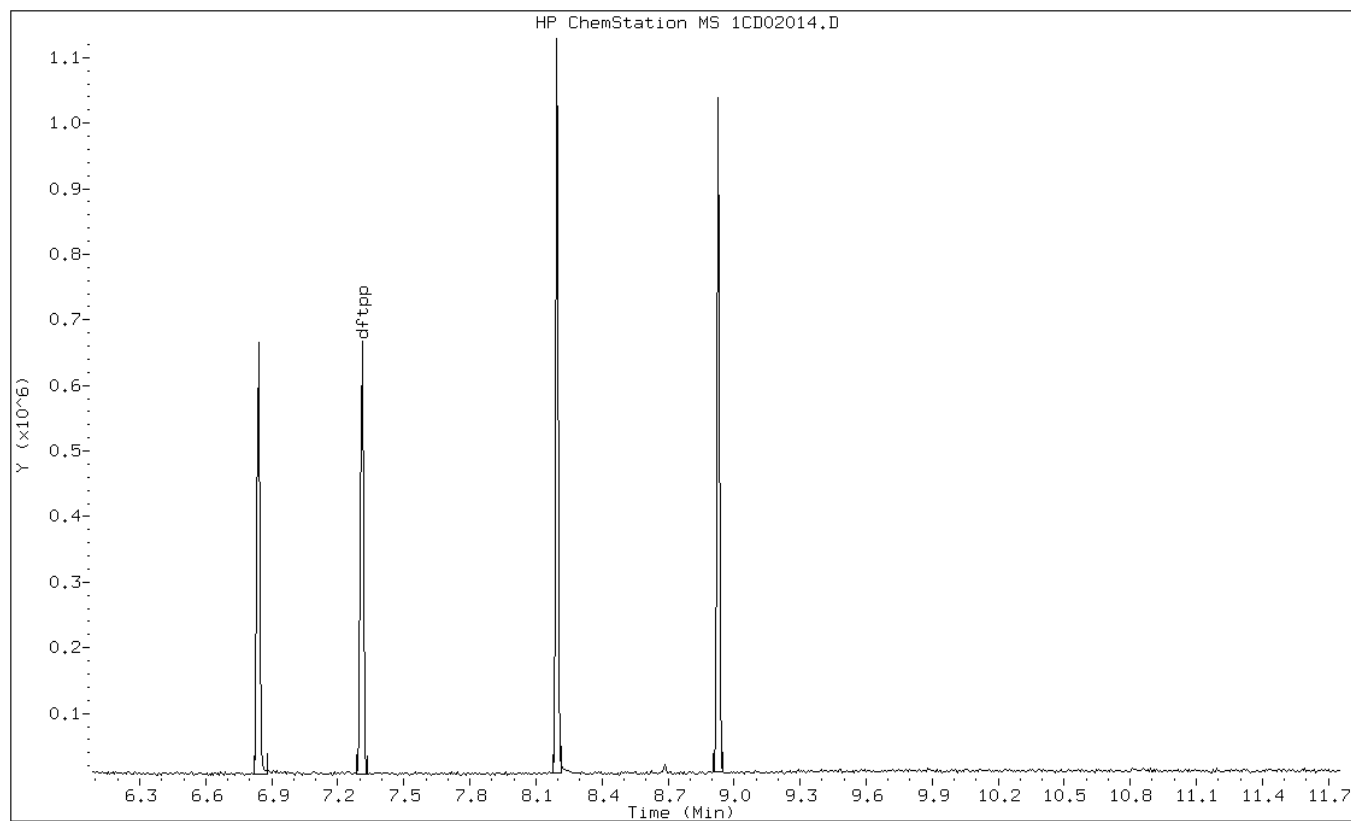
Date: 02-APR-2013 16:23

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD02014.D

Date: 02-APR-2013 16:23

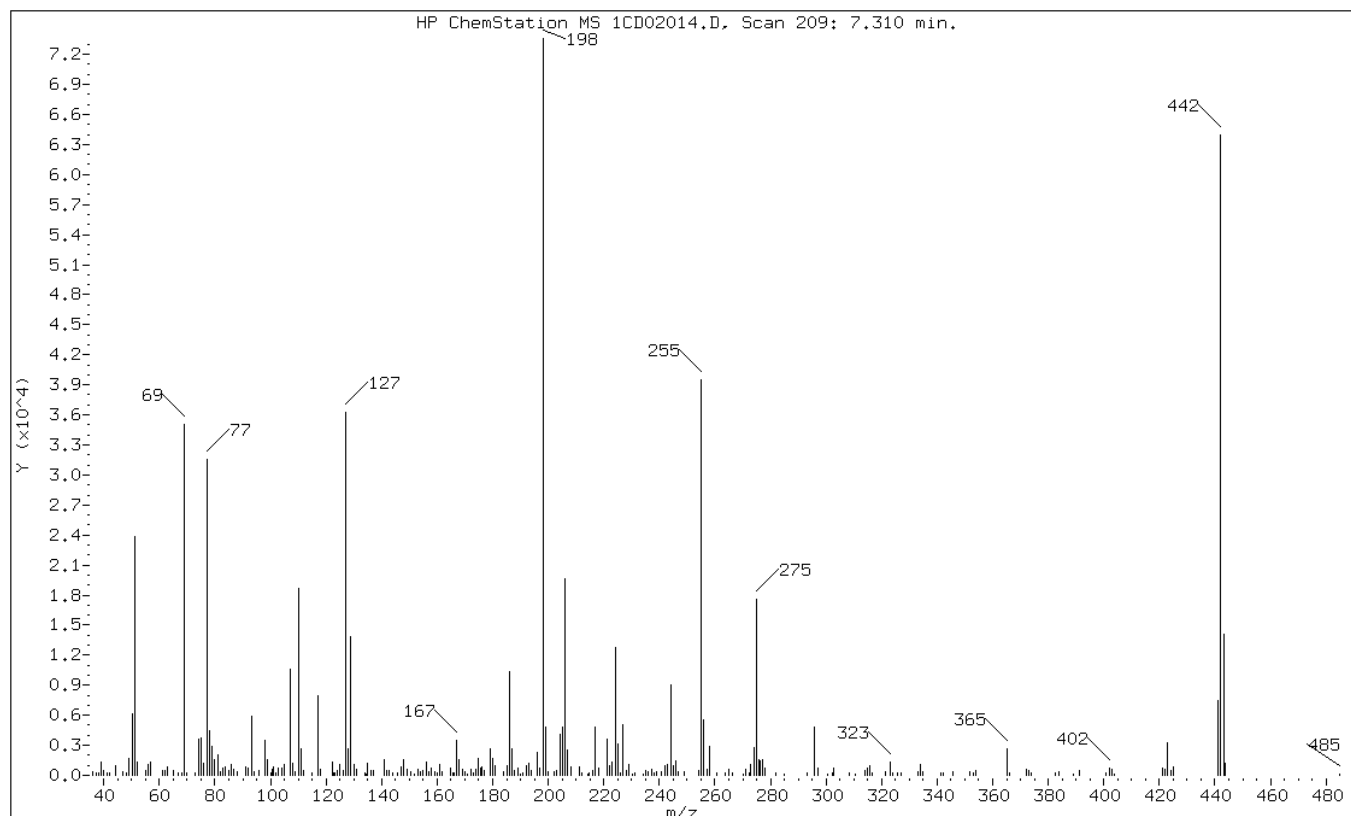
Client ID: DFTPP

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	32.37
68	Less than 2.00% of mass 69	0.26 (0.55)
69	Mass 69 relative abundance	47.67
70	Less than 2.00% of mass 69	0.32 (0.66)
127	10.00 - 80.00% of mass 198	49.27
197	Less than 2.00% of mass 198	0.92
442	Greater than 50.00% of mass 198	86.90
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	23.96
365	Greater than 1.00% of mass 198	3.65
441	Present, but less than mass 443	10.17
443	15.00 - 24.00% of mass 442	19.09 (21.97)

Data File: 1CD02014.D

Date: 02-APR-2013 16:23

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02014.D
Spectrum: HP ChemStation MS 1CD02014.D, Scan 209: 7.310 min.
Location of Maximum: 198.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	418	114.80	280	187.80	452	272.40	216
37.20	209	117.00	7921	189.00	683	273.00	1060
38.10	232	118.00	624	189.80	153	274.00	2749
39.00	1379	122.10	1319	191.00	201	275.00	17632
40.10	451	122.60	260	192.00	942	275.80	1543
41.10	248	123.10	237	193.10	1178	276.10	1470
42.10	186	124.10	439	193.90	432	277.20	1565
44.10	996	125.00	1125	196.00	2341	278.00	749
47.00	389	126.00	515	197.10	676	282.10	227
48.20	236	127.00	36256	198.00	73584	285.10	155
49.00	1671	128.00	2639	199.00	4868	293.20	275
50.10	6122	129.00	13905	199.90	363	296.00	4818
51.10	23816	130.00	1082	202.00	380	296.90	771
52.10	1372	131.20	548	203.10	500	300.60	162
55.20	424	133.90	259	204.10	4128	302.10	280
56.10	1076	134.30	180	205.00	4848	302.80	762
57.00	1269	135.00	1251	206.10	19608	308.20	203
61.00	505	136.10	493	207.00	2565	310.60	152
61.90	433	136.90	450	208.20	879	313.90	457
63.10	900	140.90	1507	211.10	821	315.00	709
65.10	453	142.00	472	212.00	181	315.90	991
67.00	290	142.90	489	214.10	152	316.70	260
68.00	194	144.10	300	214.80	299	321.20	364
69.00	35080	145.90	252	216.00	456	323.10	1302
70.00	232	147.00	811	216.90	4773	324.10	200
72.70	195	147.90	1618	218.00	720	325.90	190
73.00	247	149.00	619	221.10	3644	327.00	300
74.10	3607	150.50	330	222.00	908	332.90	322
75.00	3736	152.00	180	222.90	1270	334.10	1105
76.10	1179	153.00	608	224.10	12732	335.00	335
77.10	31536	154.10	343	225.00	3149	341.30	251
78.10	4512	155.00	424	225.90	249	342.10	183
79.00	2894	156.10	1318	227.00	5001	345.80	393
80.00	1507	157.10	374	228.00	518	351.90	355
81.00	2096	157.80	757	229.00	1044	353.10	299
82.00	371	159.00	351	230.10	172	354.00	426
83.00	705	159.90	262	231.10	181	365.00	2684
83.80	879	160.90	1143	234.00	172	366.00	281
84.90	459	161.90	345	235.00	526	372.00	645
86.00	1079	165.00	683	236.00	376	373.00	433

86.90	571	165.80	222	237.10	643	374.00	216
88.20	327	166.20	292	237.90	184	382.50	222
91.00	826	167.10	3455	239.10	374	384.00	367
92.00	703	168.00	1506	240.90	321	388.90	177
93.10	5941	169.10	592	242.00	973	391.10	423
+-----+-----+-----+-----+-----+-----+-----+-----+							
94.20	347	170.00	391	242.90	1041	400.60	241
96.00	468	171.10	163	244.10	9004	401.90	710
98.10	3544	172.00	647	244.90	1010	403.00	546
99.00	1620	173.00	191	245.90	1419	404.00	173
100.00	262	174.10	620	246.90	375	421.10	667
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.70	626	175.00	1630	248.80	313	421.90	609
101.10	788	175.80	684	254.10	445	423.00	3224
102.00	226	176.20	796	255.00	39480	424.10	447
102.90	663	176.80	511	256.00	5597	425.10	887
104.00	757	177.10	349	257.10	604	441.00	7480
+-----+-----+-----+-----+-----+-----+-----+-----+							
105.10	1033	179.00	2593	258.00	2943	442.00	63944
107.10	10587	179.90	1715	260.70	281	443.10	14047
108.00	1260	181.00	983	263.70	225	443.90	1249
109.00	393	183.70	311	264.90	627	484.90	150
110.00	18704	185.10	1003	266.10	236		
+-----+-----+-----+-----+-----+-----+-----+-----+							
111.00	2615	186.10	10352	270.10	174		
112.00	450	187.10	2621	271.20	569		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 03-APR-2013 11:28
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.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					
7.304	7.469	-0.165	198	75560			50.00-	0.00	100.00
7.304	7.469	-0.165	51	32256			10.00-	80.00	42.69
7.304	7.469	-0.165	68	431			0.00-	2.00	1.15
7.304	7.469	-0.165	69	37536			0.00-	0.00	49.68
7.304	7.469	-0.165	70	0	0.0	0.0	0.00-	2.00	0.00
7.304	7.469	-0.165	127	36336			10.00-	80.00	48.09
7.304	7.469	-0.165	197	0	0.0	0.0	0.00-	2.00	0.00
7.304	7.469	-0.165	442	46072			50.00-	0.00	60.97
7.304	7.469	-0.165	199	4654			5.00-	9.00	6.16
7.304	7.469	-0.165	275	14882			10.00-	60.00	19.70
7.304	7.469	-0.165	365	1786			1.00-	0.00	2.36
7.304	7.469	-0.165	441	5248			0.01-	99.99	68.32
7.304	7.469	-0.165	443	7681			15.00-	24.00	16.67

Data File: 1CD03002.D

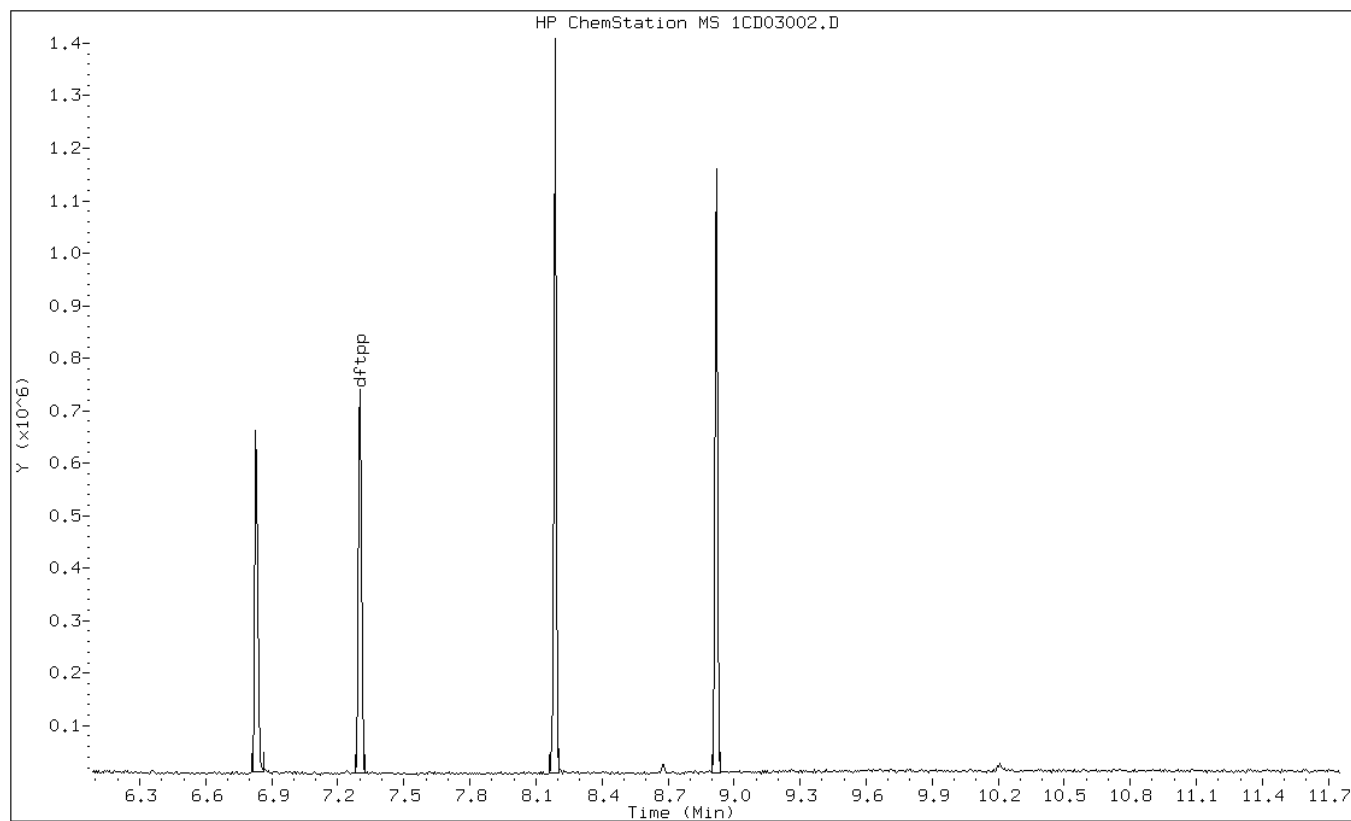
Date: 03-APR-2013 11:28

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD03002.D

Date: 03-APR-2013 11:28

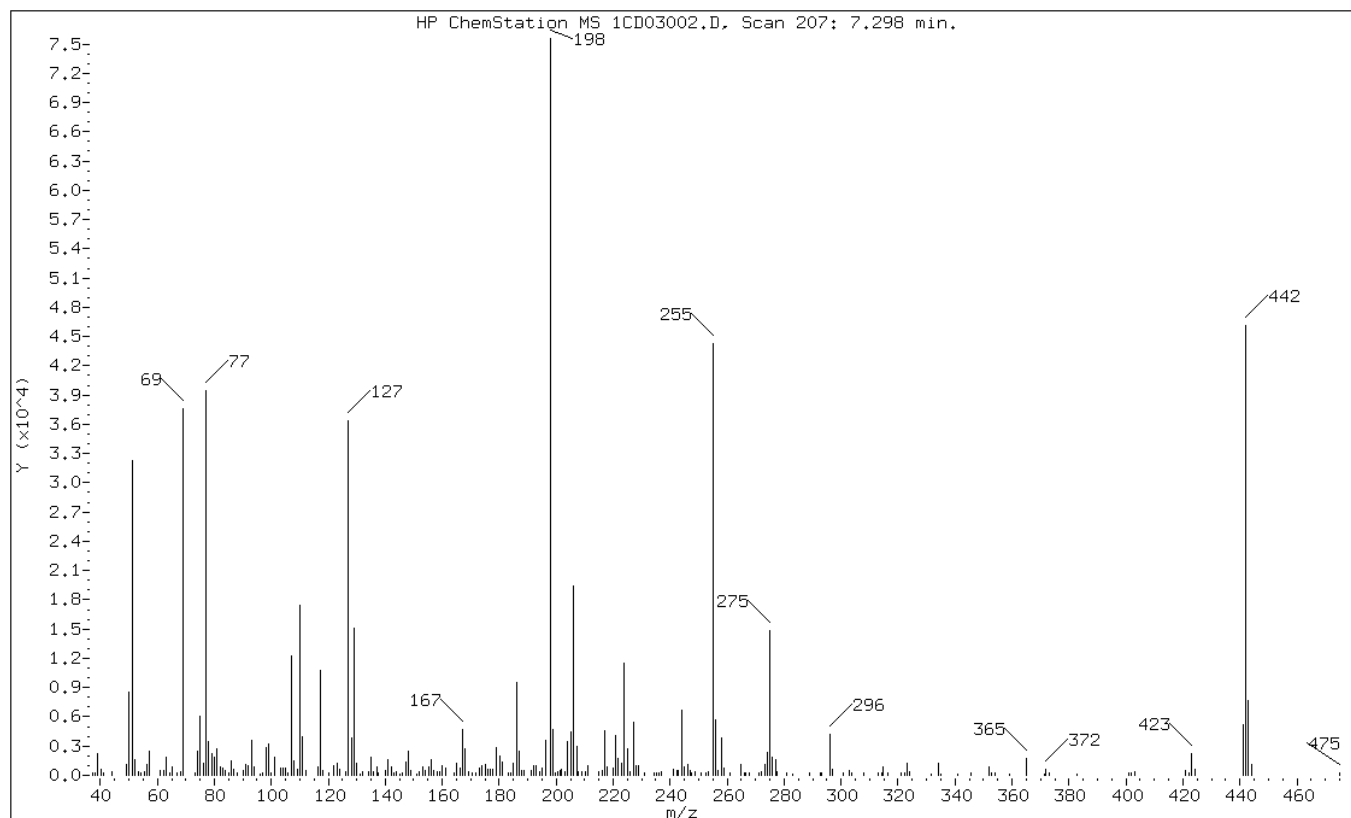
Client ID: DFTPP

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	42.69
68	Less than 2.00% of mass 69	0.57 (1.15)
69	Mass 69 relative abundance	49.68
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	48.09
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	60.97
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 60.00% of mass 198	19.70
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	6.95
443	15.00 - 24.00% of mass 442	10.17 (16.67)

Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D
Spectrum: HP ChemStation MS 1CD03002.D, Scan 207: 7.298 min.
Location of Maximum: 198.00
Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.30	192	117.10	10764	188.00	493	266.00	218
38.00	283	118.00	527	188.90	513	266.70	201
39.10	2239	120.10	245	191.10	499	267.90	235
40.10	585	122.00	935	192.00	1043	271.10	199
40.90	297	123.10	1247	192.90	1024	272.10	327
44.10	330	123.90	604	194.10	332	273.10	1066
49.00	1129	126.00	335	195.20	727	274.00	2324
50.10	8491	127.10	36336	196.10	3641	275.00	14882
51.10	32256	128.10	3781	198.00	75560	276.00	1830
52.10	1581	129.00	15116	199.00	4654	277.00	1659
53.20	336	130.00	1263	199.90	276	277.70	402
54.10	256	131.20	159	200.60	335	281.00	220
55.30	348	132.00	334	201.20	451	282.80	180
56.20	1156	134.10	331	202.00	580	289.00	293
57.10	2512	135.10	1813	203.20	332	292.70	189
60.90	464	135.90	409	204.10	3436	293.20	284
62.10	453	137.00	852	205.00	4509	296.00	4228
63.00	1830	137.70	212	206.10	19472	297.00	626
64.20	214	140.10	437	207.10	2922	300.80	203
65.00	826	141.00	1569	207.90	382	303.00	545
66.80	196	142.10	863	209.10	415	303.80	201
68.00	431	143.00	262	210.20	312	308.00	262
69.10	37536	144.00	331	211.00	973	313.00	225
73.10	264	145.00	171	214.90	410	314.10	209
74.10	2431	146.00	305	216.00	506	314.90	815
75.10	6014	147.10	1301	217.00	4568	316.30	293
76.10	1227	148.10	2447	218.00	865	321.00	250
77.10	39480	149.00	456	220.20	718	322.20	285
78.00	3407	151.10	166	221.00	4124	323.00	1264
79.10	2246	152.10	368	221.70	1716	324.00	356
80.00	1895	153.00	900	223.10	1261	331.80	174
81.00	2668	154.10	515	224.00	11463	334.00	1232
82.10	879	155.10	863	225.10	2700	334.90	167
83.10	764	156.10	1663	226.00	418	340.90	178
84.00	475	157.00	538	227.00	5402	345.50	200
85.00	238	158.10	315	227.90	949	345.70	201
86.00	1545	159.10	361	229.00	1026	352.00	846
86.80	591	160.10	1033	231.00	287	352.90	228
88.00	244	161.10	710	234.20	305	354.00	283
90.00	555	164.00	222	235.10	301	359.10	153

90.90	1058	165.10	1243	236.10	289	364.90	1786
92.00	991	166.10	702	237.00	410	371.30	185
93.00	3605	167.00	4706	241.10	620	371.90	659
94.10	821	168.10	2729	242.20	454	373.00	302
96.10	182	169.20	408	242.90	481	382.70	163
+-----+							
97.10	261	170.70	259	244.00	6719	400.90	212
98.00	2850	171.80	303	245.00	898	402.00	306
99.10	3237	173.10	799	246.10	1119	403.00	361
100.10	191	174.10	994	247.10	479	420.80	515
101.10	1802	175.10	1080	247.60	278	422.10	230
+-----+							
103.10	791	176.10	603	248.80	422	422.90	2199
104.10	795	177.00	595	250.70	208	424.10	620
105.10	697	177.60	617	252.60	245	441.00	5248
105.70	251	179.10	2842	253.60	315	442.00	46072
107.00	12235	180.10	1998	255.00	44296	443.00	7681
+-----+							
108.10	1536	180.90	1327	256.10	5661	444.00	1055
109.10	670	183.40	224	256.80	459	475.00	248
110.10	17424	184.10	220	258.00	3829		
111.00	3940	185.00	1287	259.10	709		
112.20	440	186.10	9570	260.90	205		
+-----+							
116.20	866	187.10	2436	265.00	1167		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-FEB-2013 11:57
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
 Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
8.477	8.532	-0.055	198	100672			50.00-	0.00	100.00
8.477	8.532	-0.055	51	47200			10.00-	80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	69	46864			0.00-	0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	127	51248			10.00-	80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	442	64976			50.00-	0.00	64.54
8.477	8.532	-0.055	199	7983			5.00-	9.00	7.93
8.477	8.532	-0.055	275	25312			10.00-	60.00	25.14
8.477	8.532	-0.055	365	2913			1.00-	0.00	2.89
8.477	8.532	-0.055	441	10444			0.01-	99.99	78.40
8.477	8.532	-0.055	443	13322			15.00-	24.00	20.50

Data File: 1DB22002.D

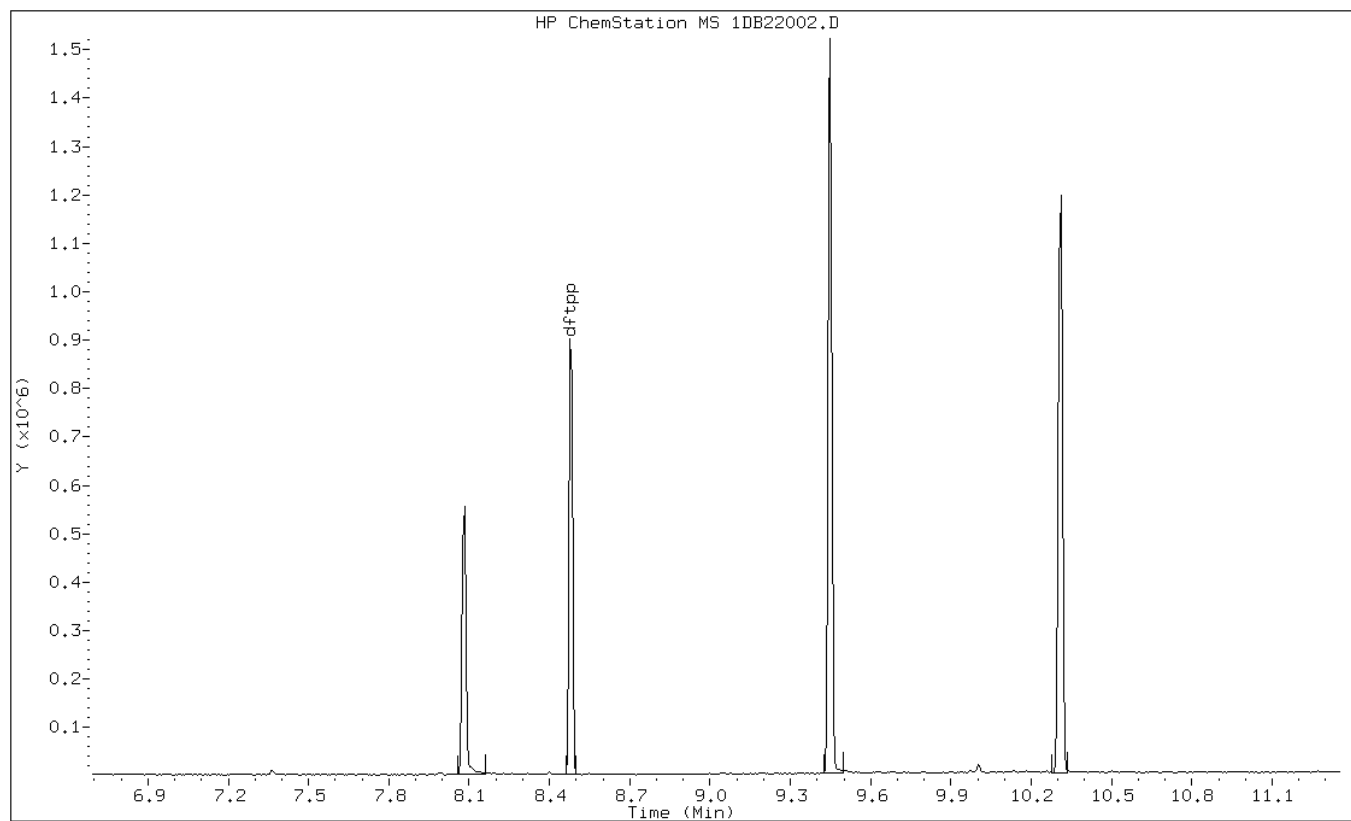
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

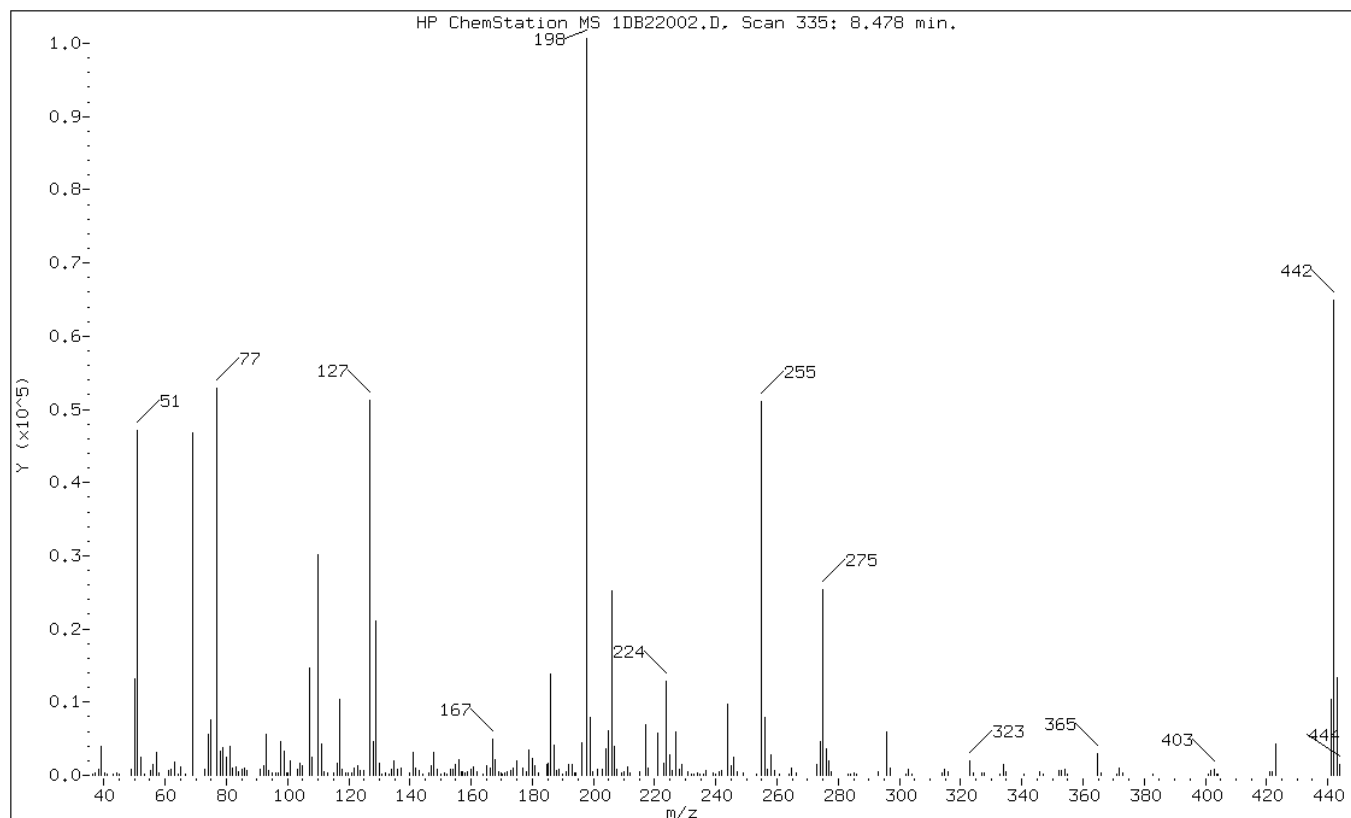
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D

Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.

Location of Maximum: 197.90

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
+-----+							
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
+-----+							
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
+-----+							
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
+-----+							
112.90	308	177.90	412	255.90	7928		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 02-APR-2013 10:23
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
8.390	8.532	-0.142	198	67944			50.00-	0.00	100.00
8.390	8.532	-0.142	51	26256			10.00-	80.00	38.64
8.390	8.532	-0.142	68	0	0.0	0.0	0.00-	2.00	0.00
8.390	8.532	-0.142	69	25888			0.00-	0.00	38.10
8.390	8.532	-0.142	70	166			0.00-	2.00	0.64
8.390	8.532	-0.142	127	32656			10.00-	80.00	48.06
8.390	8.532	-0.142	197	0	0.0	0.0	0.00-	2.00	0.00
8.390	8.532	-0.142	442	66024			50.00-	0.00	97.17
8.390	8.532	-0.142	199	4475			5.00-	9.00	6.59
8.390	8.532	-0.142	275	20680			10.00-	60.00	30.44
8.390	8.532	-0.142	365	2893			1.00-	0.00	4.26
8.390	8.532	-0.142	441	10278			0.01-	99.99	77.62
8.390	8.532	-0.142	443	13241			15.00-	24.00	20.05

Data File: 1DD02002.D

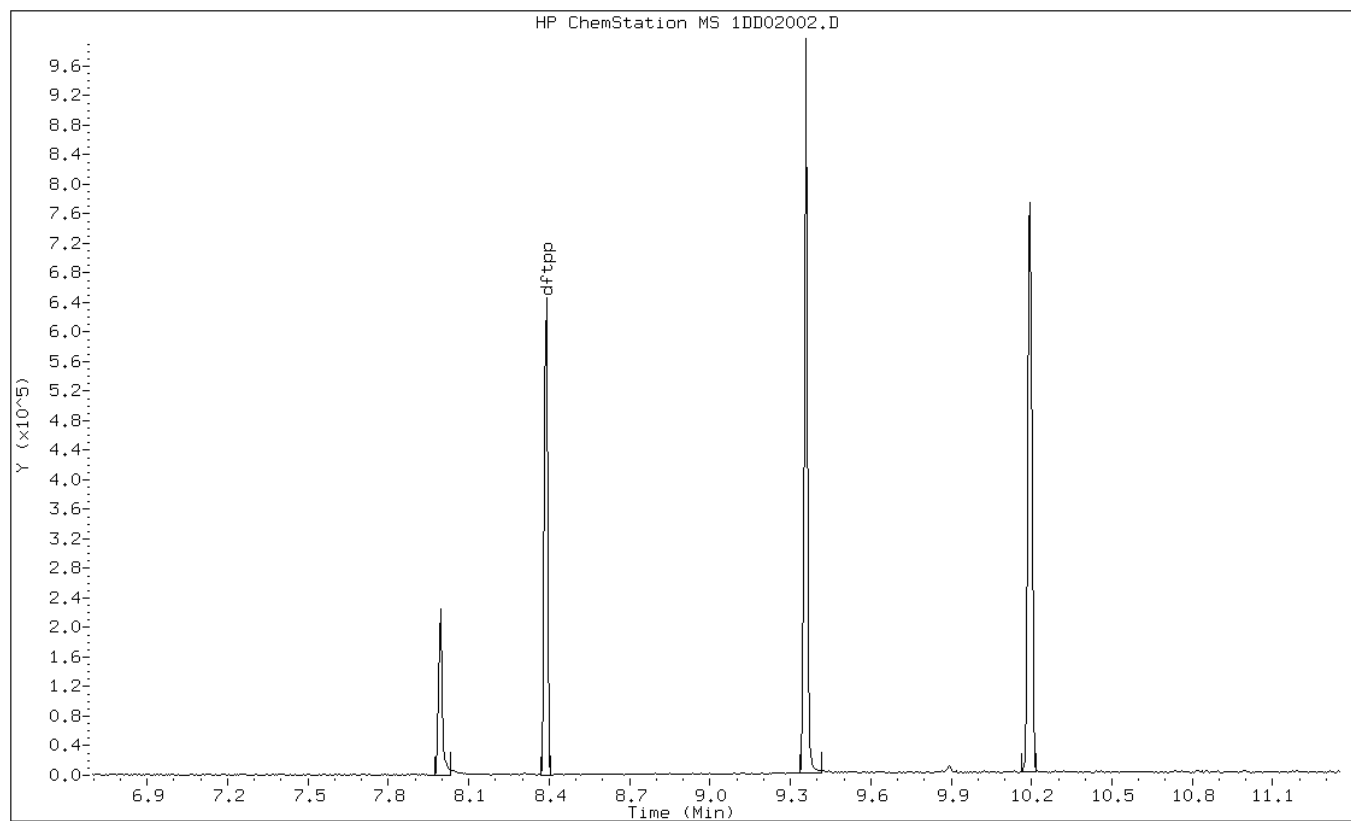
Date: 02-APR-2013 10:23

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD02002.D

Date: 02-APR-2013 10:23

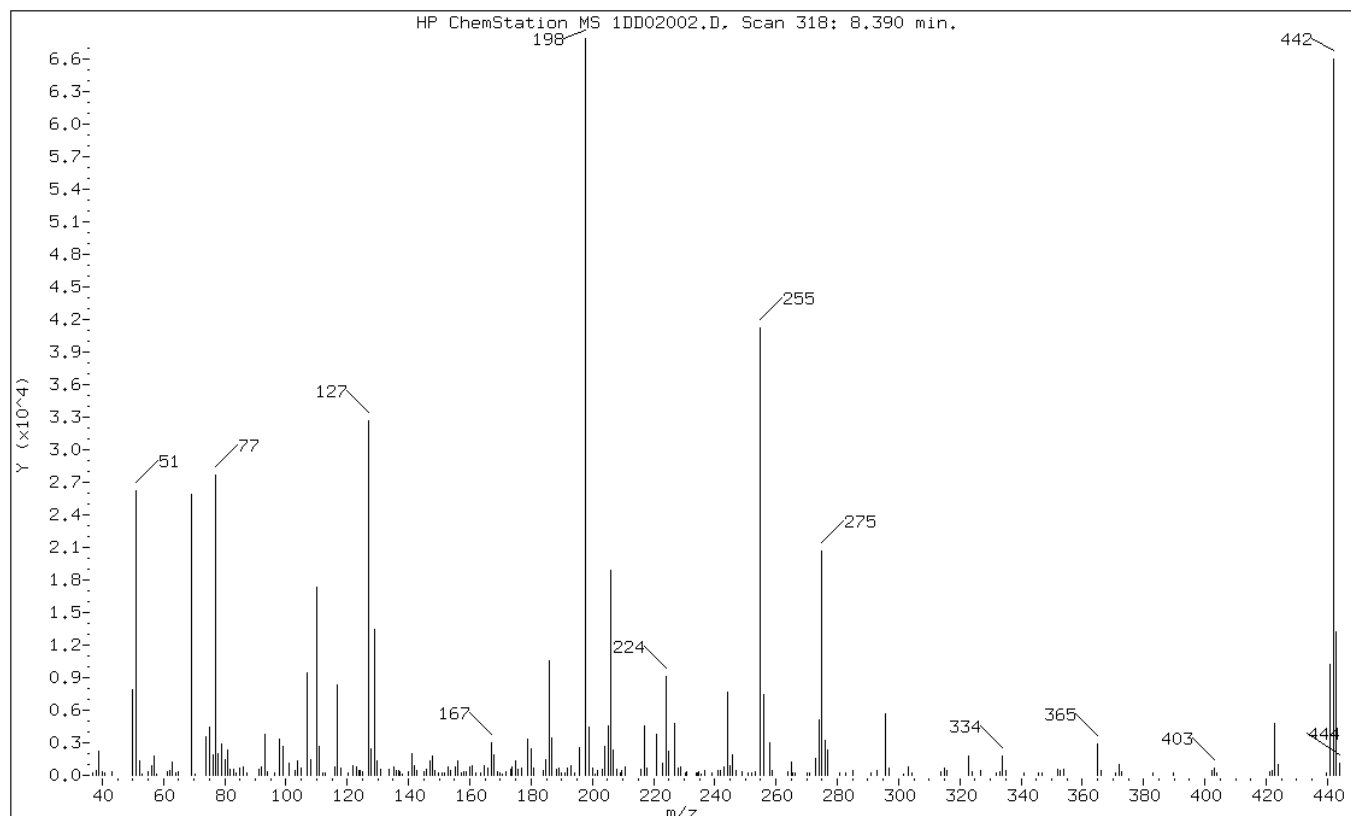
Client ID: DFTPP

Instrument: BSMSD.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	38.64
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.10
70	Less than 2.00% of mass 69	0.24 (0.64)
127	10.00 - 80.00% of mass 198	48.06
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	97.17
199	5.00 - 9.00% of mass 198	6.59
275	10.00 - 60.00% of mass 198	30.44
365	Greater than 1.00% of mass 198	4.26
441	Present, but less than mass 443	15.13
443	15.00 - 24.00% of mass 442	19.49 (20.05)

Data File: 1DD02002.D

Date: 02-APR-2013 10:23

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02002.D
Spectrum: HP ChemStation MS 1DD02002.D, Scan 318: 8.390 min.
Location of Maximum: 197.90
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	192	122.90	827	186.90	3494	264.90	1214
38.20	421	123.80	469	188.20	520	265.60	243
39.00	2186	124.10	451	189.00	687	266.20	245
40.10	284	125.00	381	190.00	195	270.10	222
41.00	193	127.00	32656	191.20	246	270.80	221
43.00	305	127.90	2403	191.90	694	272.90	1563
50.00	7919	128.90	13440	192.90	925	274.00	5134
51.00	26256	129.90	1366	194.10	260	275.00	20680
52.10	1339	131.10	540	196.00	2539	275.90	3234
53.10	162	133.80	557	197.90	67944	276.90	2303
55.00	314	135.10	827	198.90	4475	280.90	186
56.00	929	136.10	430	200.00	645	282.70	272
57.00	1832	136.90	390	200.80	156	285.00	486
57.90	163	137.10	384	201.60	423	290.90	186
61.20	319	137.90	163	203.10	578	293.00	399
61.90	431	140.00	312	204.00	2655	295.90	5626
63.00	1200	141.10	2028	205.10	4614	296.90	654
64.20	207	142.00	879	206.00	18952	301.80	165
64.90	361	142.90	400	206.90	2345	303.00	805
69.00	25888	145.00	281	208.00	591	304.30	200
70.50	166	145.80	611	209.00	263	313.80	387
74.00	3583	147.00	1340	209.70	416	315.00	678
75.00	4502	147.90	1787	210.80	793	315.90	455
76.10	1890	148.80	499	215.70	564	322.90	1735
77.10	27656	149.80	207	216.90	4518	324.10	349
78.00	2018	151.10	270	217.80	653	326.80	437
79.00	2847	151.80	191	221.00	3826	331.90	171
80.00	1461	152.90	817	222.90	1080	333.10	379
81.00	2299	153.80	426	224.00	9162	334.00	1785
81.90	551	155.10	774	225.00	2251	334.90	445
83.00	534	155.90	1359	227.00	4795	341.10	181
83.80	191	157.20	201	227.90	652	345.70	262
85.00	644	158.00	359	228.90	733	346.80	172
85.90	771	159.00	374	230.50	250	352.00	574
87.10	263	160.00	834	231.00	389	352.80	456
91.00	582	160.90	837	233.80	217	354.00	578
92.00	770	162.00	265	234.20	194	364.90	2893
93.00	3790	163.70	233	234.90	326	366.00	476
93.80	352	164.80	865	235.70	154	370.80	249
96.10	241	165.90	662	236.80	482	372.00	952

98.00	3295	166.90	3045	239.20	170	373.00	292
99.00	2663	167.90	1910	241.00	392	383.10	235
100.90	1097	168.90	354	241.90	429	389.90	269
103.00	398	170.00	175	243.00	797	402.20	434
103.90	1328	170.80	153	244.00	7700	403.10	721
+-----+-----+-----+-----+-----+-----+-----+-----+							
104.90	660	172.00	328	245.00	907	403.90	263
107.00	9484	173.20	511	245.90	1930	421.00	314
108.00	1495	173.90	766	246.80	442	421.80	495
110.00	17384	175.10	1330	248.90	305	422.90	4743
111.00	2683	175.90	534	250.80	180	423.80	970
+-----+-----+-----+-----+-----+-----+-----+-----+							
112.10	260	176.90	718	252.00	175	439.60	232
113.00	256	178.90	3380	253.30	281	441.00	10278
115.80	757	179.90	2487	255.00	41288	441.90	66024
116.90	8336	180.90	707	256.00	7469	442.90	13241
117.90	672	183.90	417	257.90	2957	444.00	1103
+-----+-----+-----+-----+-----+-----+-----+-----+							
120.10	216	184.80	1485	258.90	406		
121.90	880	186.00	10594	263.80	299		
+-----+-----+-----+-----+-----+-----+-----+-----+							

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-135843/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD01013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>15.09(g)</u>	Date Analyzed: <u>04/01/2013 14:52</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135996</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01013.D
Lab Smp Id: mb 660-135843/1-a
Inj Date : 01-APR-2013 14:52
Operator : SCC
Smp Info : mb 660-135843/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1-a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.715	3.716	(1.000)	615973	40.0000	
*	6 Acenaphthene-d10	164	4.804	4.804	(1.000)	487906	40.0000	
*	10 Phenanthrene-d10	188	5.751	5.757	(1.000)	918261	40.0000	
\$	14 o-Terphenyl	230	6.004	6.004	(1.044)	82889	5.97865	396.1991
*	18 Chrysene-d12	240	7.692	7.698	(1.000)	1067842	40.0000	
*	23 Perylene-d12	264	8.868	8.886	(1.000)	1091075	40.0000	

Data File: 1CD01013.D

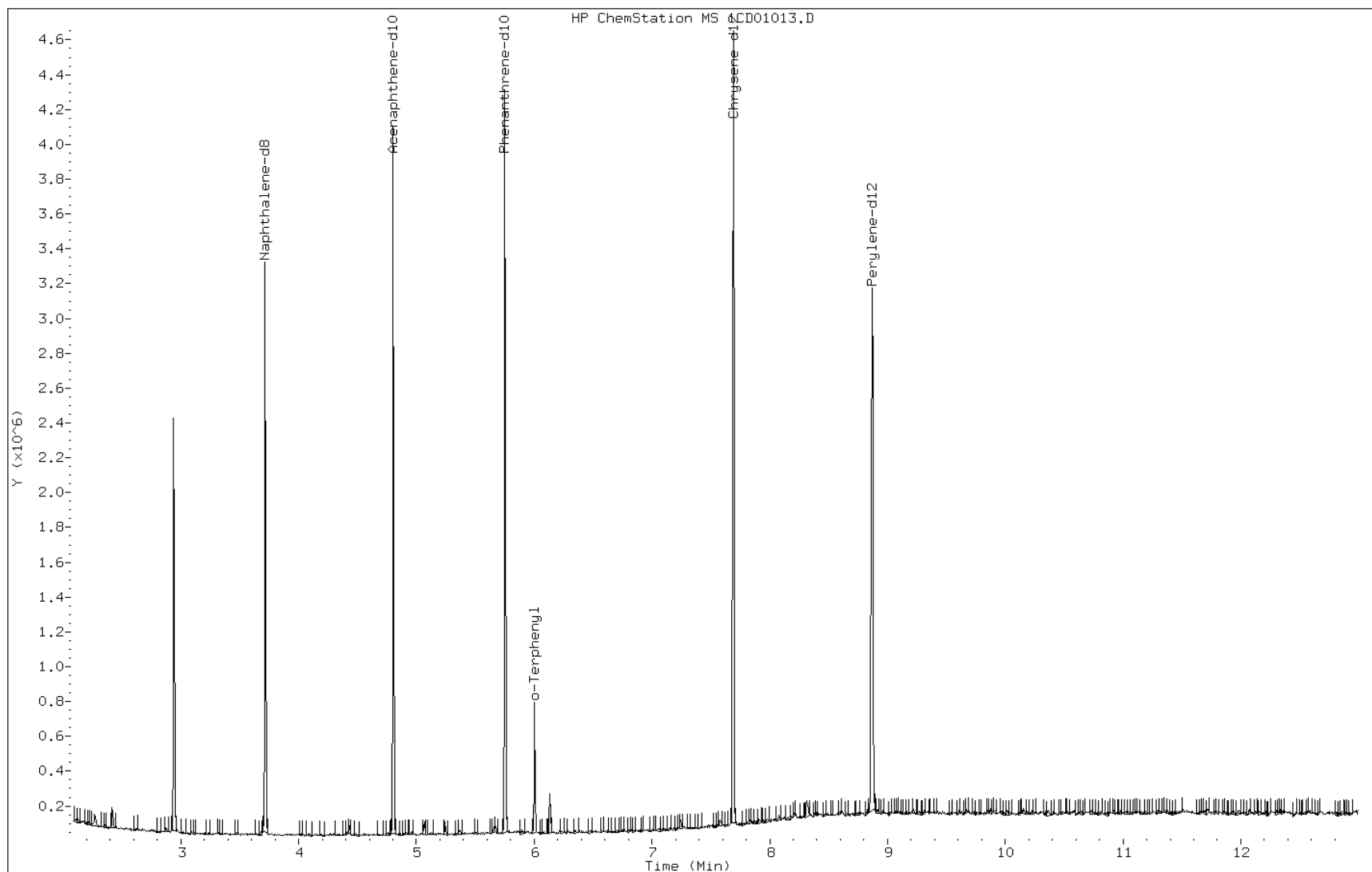
Date: 01-APR-2013 14:52

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135843/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-135924/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD02026.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2013 10:19</u>
Sample wt/vol: <u>15.12(g)</u>	Date Analyzed: <u>04/02/2013 20:01</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136079</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	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	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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\1C040213B.b\1CD02026.D
Lab Smp Id: mb 660-135924/1-a
Inj Date : 02-APR-2013 20:01
Operator : SCC
Smp Info : mb 660-135924/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1-a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 25 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

							CONCENTRATIONS	
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	569471	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	504679	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	959879	40.0000	
\$	14 o-Terphenyl	230	5.998	5.998	(1.044)	85443	6.17889	408.6565
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	1168702	40.0000	
*	23 Perylene-d12	264	8.857	8.862	(1.000)	1102080	40.0000	

Data File: 1CD02026.D

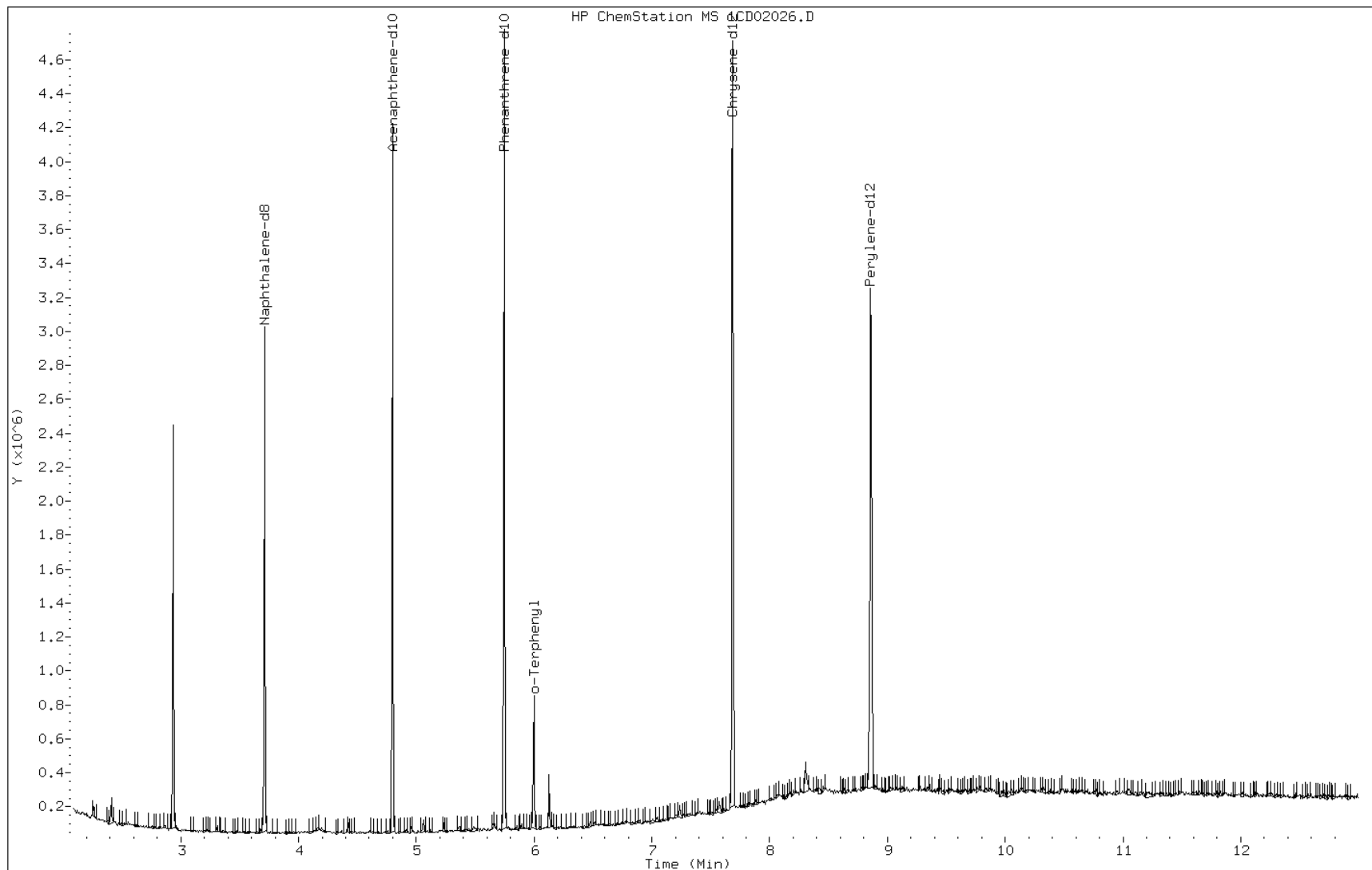
Date: 02-APR-2013 20:01

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135924/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-135965/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD02009.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/01/2013 08:27</u>
Sample wt/vol: <u>14.92(g)</u>	Date Analyzed: <u>04/02/2013 13:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136046</u>	Units: <u>ug/Kg</u>

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	3.93	J	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02009.D
 Lab Smp Id: MB 660-135965/1-A
 Inj Date : 02-APR-2013 13:24
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-135965/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\dFASTPAHi.m
 Meth Date : 02-Apr-2013 13:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 8 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT SIG				ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.090	6.092	(1.000)	2708257	40.0000	
*	6 Acenaphthene-d10	164	7.770	7.773	(1.000)	1742662	40.0000	
*	9 Phenanthrene-d10	188	9.034	9.036	(1.000)	2848951	40.0000	
\$	13 o-Terphenyl	230	9.339	9.342	(1.034)	303171	6.88146	460
*	17 Chrysene-d12	240	11.354	11.363	(1.000)	2830312	40.0000	
*	22 Perylene-d12	264	13.199	13.208	(1.000)	2835380	40.0000	
	10 Phenanthrene	178	9.045	9.054	(1.001)	4740	0.05861	3.9

Data File: 1DD02009.D

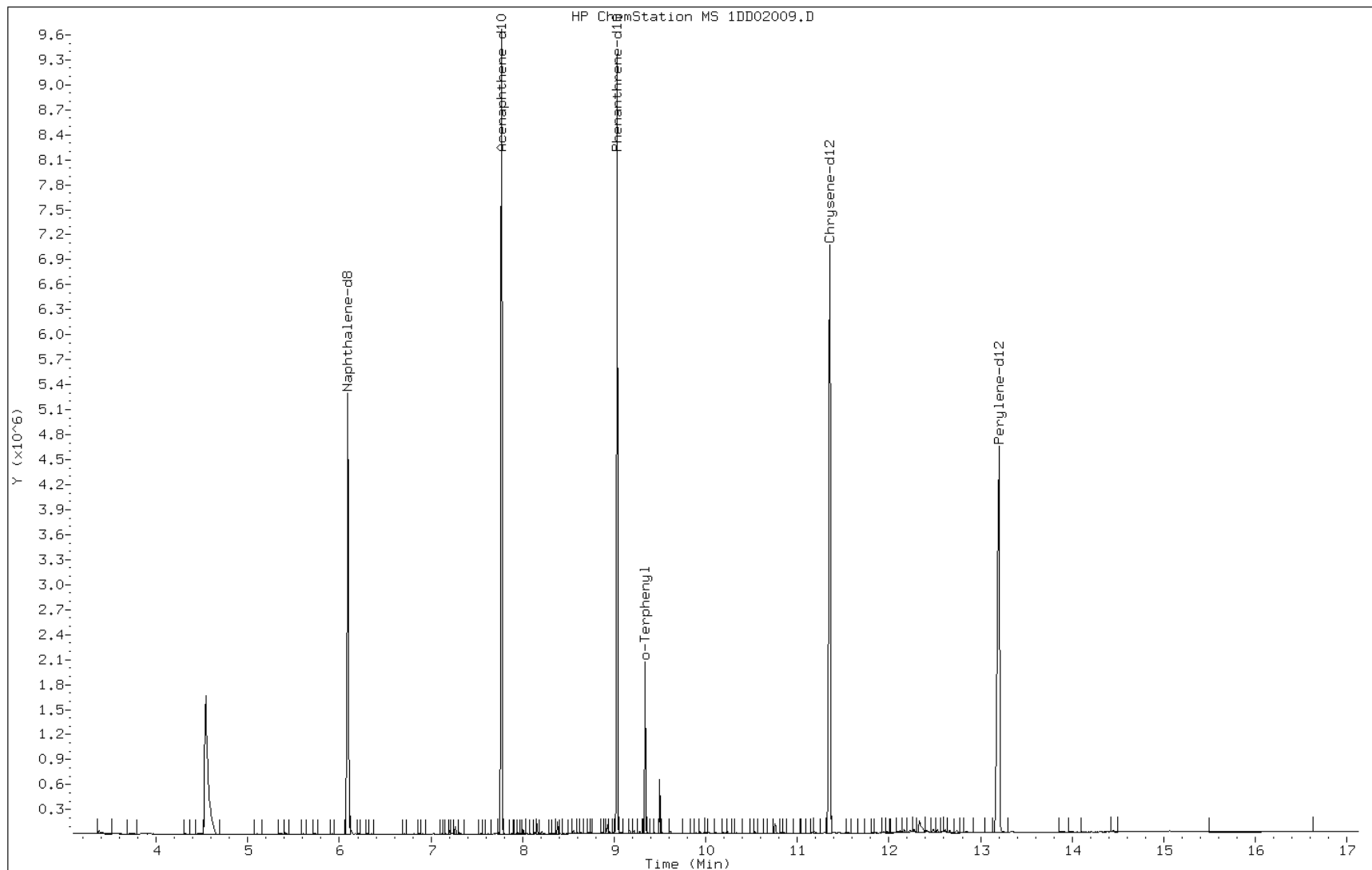
Date: 02-APR-2013 13:24

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-135965/1-A

Operator: SCC



Data File: 1DD02009.D

Date: 02-APR-2013 13:24

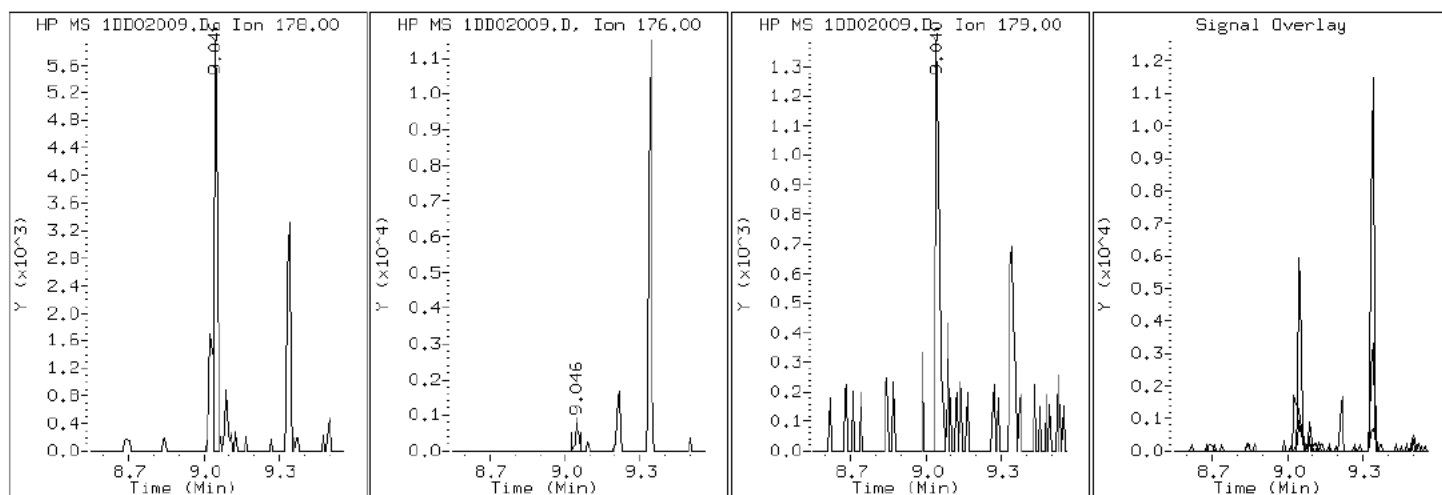
Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-135965/1-A

Operator: SCC

10 Phenanthrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-135843/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD01014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/01/2013 15:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135996</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	495		100	20
208-96-8	Acenaphthylene	547		40	5.0
120-12-7	Anthracene	519		8.4	4.2
56-55-3	Benzo[a]anthracene	536		8.0	3.9
50-32-8	Benzo[a]pyrene	483		10	5.2
205-99-2	Benzo[b]fluoranthene	481		12	6.1
191-24-2	Benzo[g,h,i]perylene	477		20	4.4
207-08-9	Benzo[k]fluoranthene	573		8.0	3.6
218-01-9	Chrysene	497		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	499		20	4.1
206-44-0	Fluoranthene	548		20	4.0
86-73-7	Fluorene	536		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	511		20	7.1
90-12-0	1-Methylnaphthalene	593		40	4.4
91-57-6	2-Methylnaphthalene	577		40	7.1
91-20-3	Naphthalene	539		40	4.4
85-01-8	Phenanthrene	518		8.0	3.9
129-00-0	Pyrene	556		20	3.7

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\1C040113.b\1CD01014.D
Lab Smp Id: lcs 660-135843/2-a
Inj Date : 01-APR-2013 15:10
Operator : SCC
Smp Info : lcs 660-135843/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1-a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

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						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.716	3.716	(1.000)	624323	40.0000		
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	524237	40.0000		
* 10 Phenanthrene-d10	188	5.751	5.757	(1.000)	955931	40.0000		
\$ 14 o-Terphenyl	230	6.004	6.004	(1.044)	117222	8.12184	542.9040	
* 18 Chrysene-d12	240	7.692	7.698	(1.000)	1186437	40.0000		
* 23 Perylene-d12	264	8.868	8.886	(1.000)	1208573	40.0000		
2 Naphthalene	128	3.727	3.733	(1.003)	131097	8.06578	539.1561	
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	93536	8.62736	576.6951	
4 1-Methylnaphthalene	142	4.221	4.222	(1.136)	87581	8.86961	592.8885	
5 Acenaphthylene	152	4.716	4.716	(0.982)	173082	8.18913	547.4014	
7 Acenaphthene	154	4.827	4.827	(1.005)	97191	7.39829	494.5381	
9 Fluorene	166	5.145	5.145	(1.071)	133272	8.02164	536.2056	
11 Phenanthrene	178	5.768	5.768	(1.003)	214345	7.75452	518.3502	
12 Anthracene	178	5.804	5.804	(1.009)	210003	7.76839	519.2772	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.910	5.910	(1.028)	185129	7.70393	514.9684
15 Fluoranthene	202	6.604	6.604	(1.148)	248150	8.19773	547.9767
16 Pyrene	202	6.768	6.774	(0.880)	265159	8.31642	555.9104
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	274507	8.01647	535.8604
19 Chrysene	228	7.709	7.715	(1.002)	254743	7.43372	496.9062
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	227489	7.20255	481.4539
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	277741	8.57204	572.9974
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	221479	7.21926	482.5709
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	220757	7.64920	511.3098(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	210527	7.45775	498.5126
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	215210	7.12848	476.5029

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD01014.D

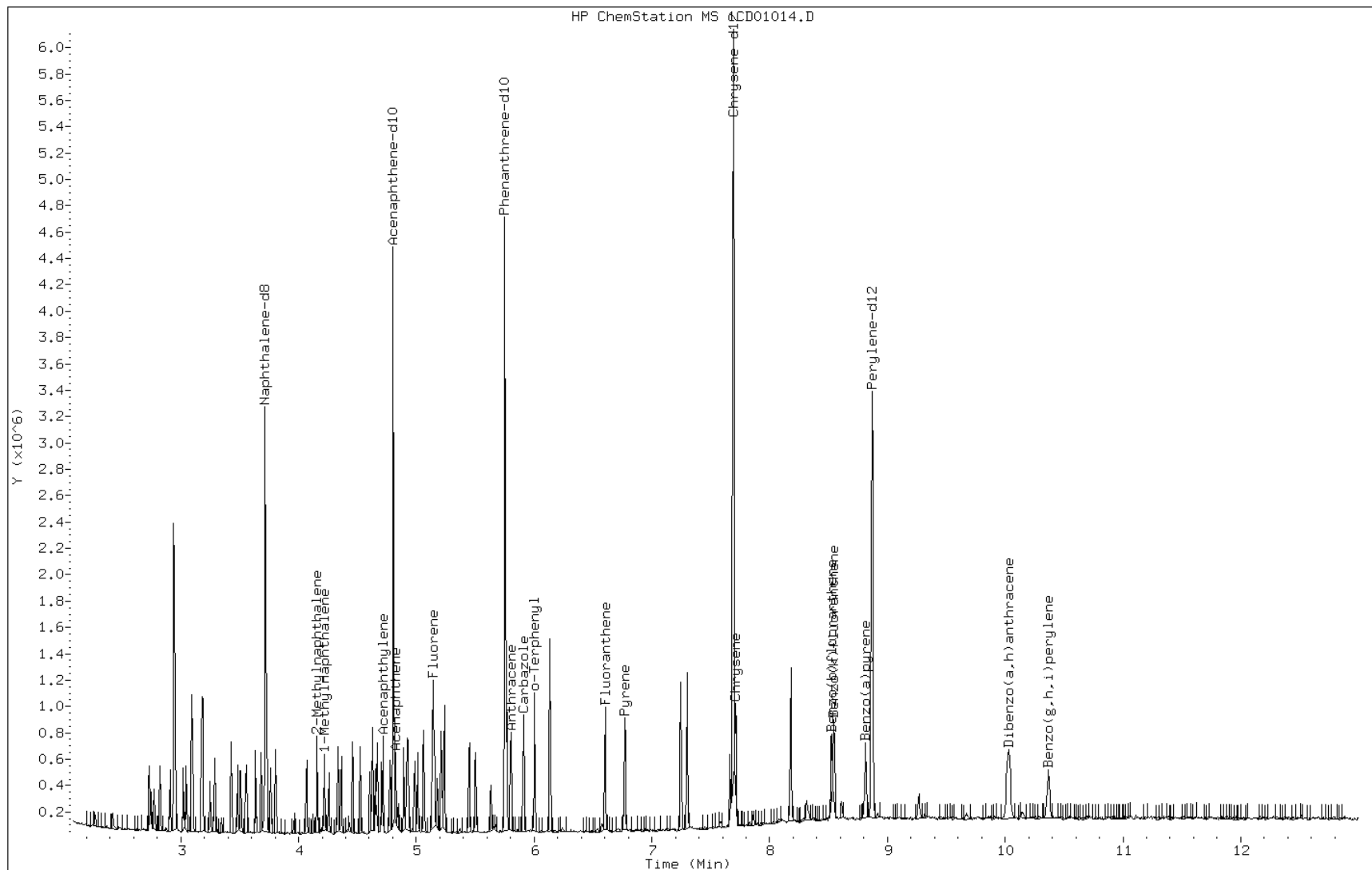
Date: 01-APR-2013 15:10

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135843/2-a

Operator: SCC

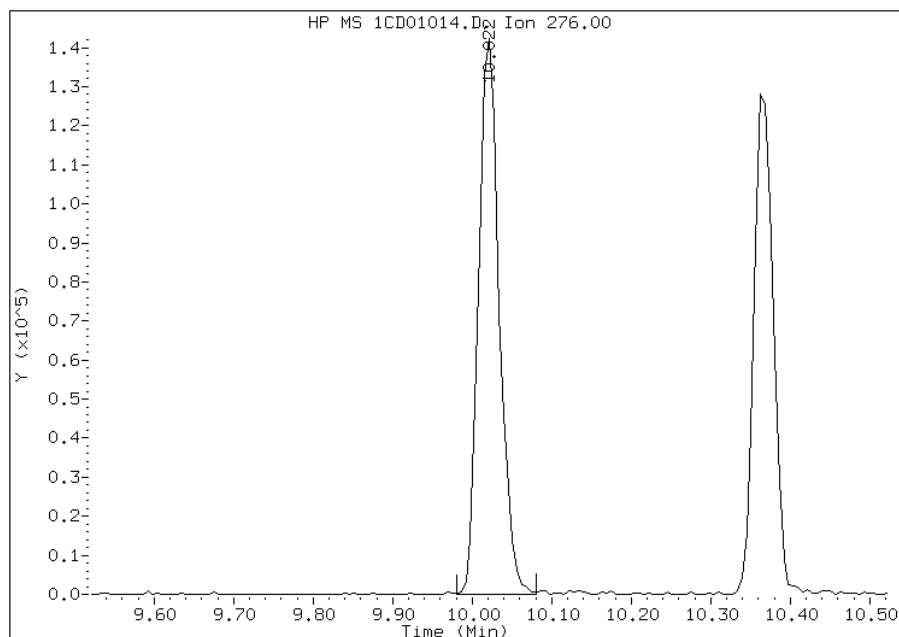


Manual Integration Report

Data File: 1CD01014.D
Inj. Date and Time: 01-APR-2013 15:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

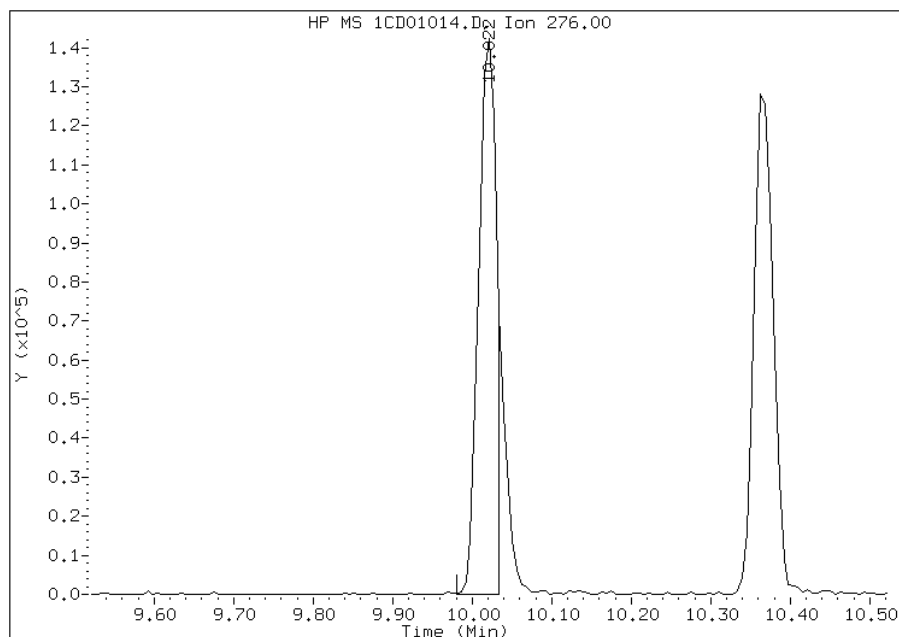
Processing Integration Results

RT: 10.02
Response: 255670
Amount: 9
Conc: 592



Manual Integration Results

RT: 10.02
Response: 220757
Amount: 8
Conc: 511



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-135924/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD02027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2013 10:19</u>
Sample wt/vol: <u>15.01(g)</u>	Date Analyzed: <u>04/02/2013 20:19</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136079</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	412		100	20
208-96-8	Acenaphthylene	436		40	5.0
120-12-7	Anthracene	447		8.4	4.2
56-55-3	Benzo[a]anthracene	479		8.0	3.9
50-32-8	Benzo[a]pyrene	454		10	5.2
205-99-2	Benzo[b]fluoranthene	456		12	6.1
191-24-2	Benzo[g,h,i]perylene	425		20	4.4
207-08-9	Benzo[k]fluoranthene	469		8.0	3.6
218-01-9	Chrysene	447		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	476		20	4.1
206-44-0	Fluoranthene	483		20	4.0
86-73-7	Fluorene	450		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	403		20	7.1
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	483		40	7.1
91-20-3	Naphthalene	461		40	4.4
85-01-8	Phenanthrene	439		8.0	3.9
129-00-0	Pyrene	509		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02027.D
Lab Smp Id: lcs 660-135924/2-a
Inj Date : 02-APR-2013 20:19
Operator : SCC
Smp Info : lcs 660-135924/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02027.D
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
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	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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.710	3.710	(1.000)		536976	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.798	(1.000)		477938	40.0000	
* 10 Phenanthrene-d10	188		5.745	5.745	(1.000)		982106	40.0000	
\$ 14 o-Terphenyl	230		5.998	5.998	(1.044)		93721	6.57186	437.8320
* 18 Chrysene-d12	240		7.686	7.686	(1.000)		1206373	40.0000	
* 23 Perylene-d12	264		8.862	8.862	(1.000)		1158196	40.0000	
2 Naphthalene	128		3.722	3.721	(1.003)		95371	6.91489	460.6857
3 2-Methylnaphthalene	142		4.151	4.151	(1.119)		67997	7.24257	482.5165
4 1-Methylnaphthalene	142		4.216	4.216	(1.136)		64602	7.64717	509.4716
5 Acenaphthylene	152		4.710	4.710	(0.982)		129477	6.54563	436.0844
7 Acenaphthene	154		4.816	4.821	(1.004)		75709	6.17955	411.6958
9 Fluorene	166		5.139	5.139	(1.071)		110432	6.76149	450.4656
11 Phenanthrene	178		5.763	5.763	(1.003)		188670	6.59605	439.4435
12 Anthracene	178		5.792	5.798	(1.008)		194399	6.70444	446.6651

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.904	5.904	(1.028)	184492	7.42668	494.7820
15 Fluoranthene	202	6.598	6.598	(1.148)	228870	7.24525	482.6950
16 Pyrene	202	6.763	6.762	(0.880)	255268	7.63876	508.9114
17 Benzo(a)anthracene	228	7.674	7.680	(0.998)	246415	7.18521	478.6948
19 Chrysene	228	7.704	7.704	(1.002)	230392	6.70205	446.5055
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	224162	6.84607	456.1003
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	223127	7.04570	469.4000
22 Benzo(a)pyrene	252	8.804	8.809	(0.993)	210159	6.81738	454.1891
24 Indeno(1,2,3-cd)pyrene	276	10.004	10.015	(1.129)	176973	6.04421	402.6789(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	193346	7.14836	476.2401
26 Benzo(g,h,i)perylene	276	10.351	10.356	(1.168)	190765	6.38363	425.2916

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02027.D

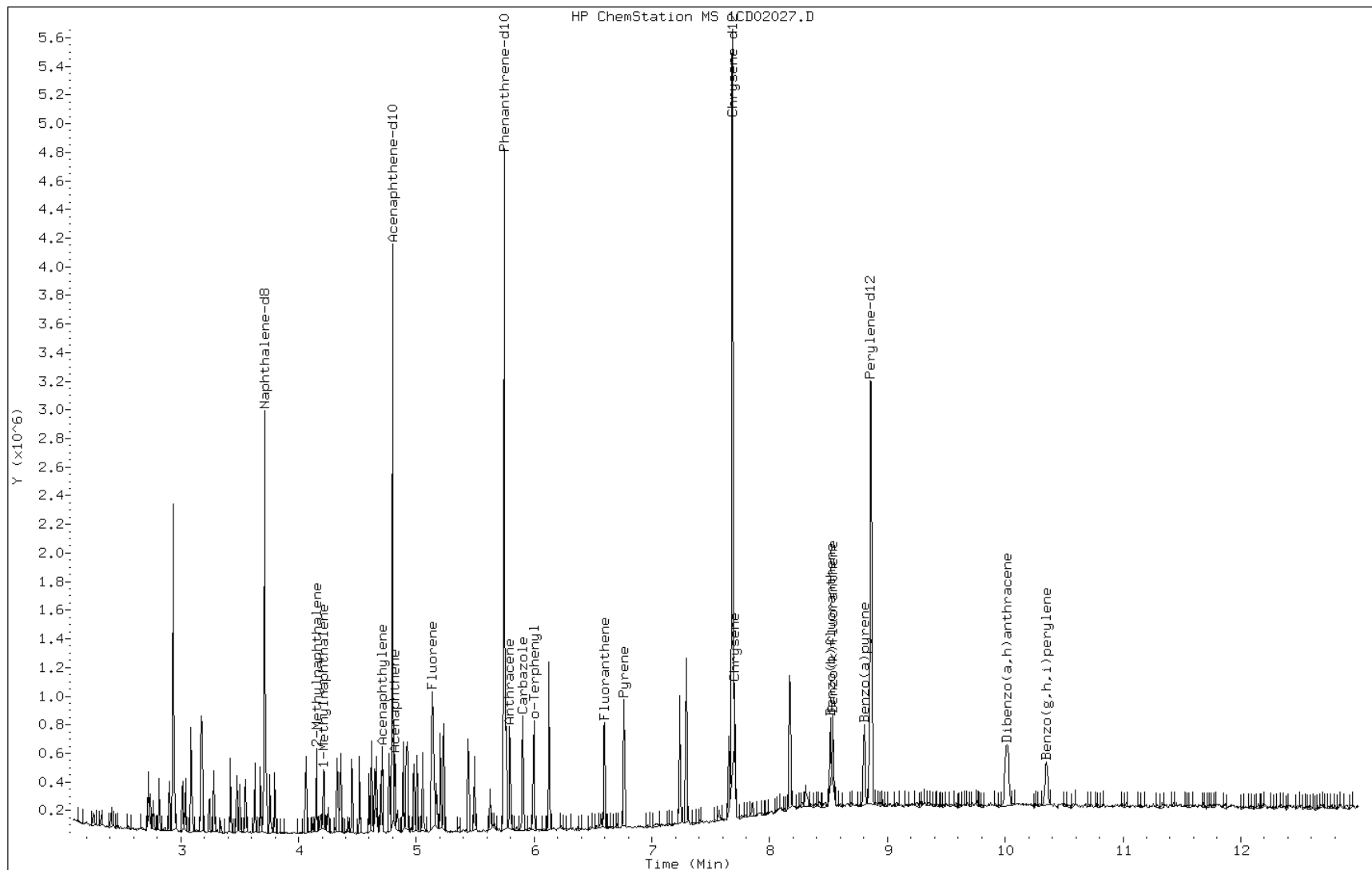
Date: 02-APR-2013 20:19

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135924/2-a

Operator: SCC

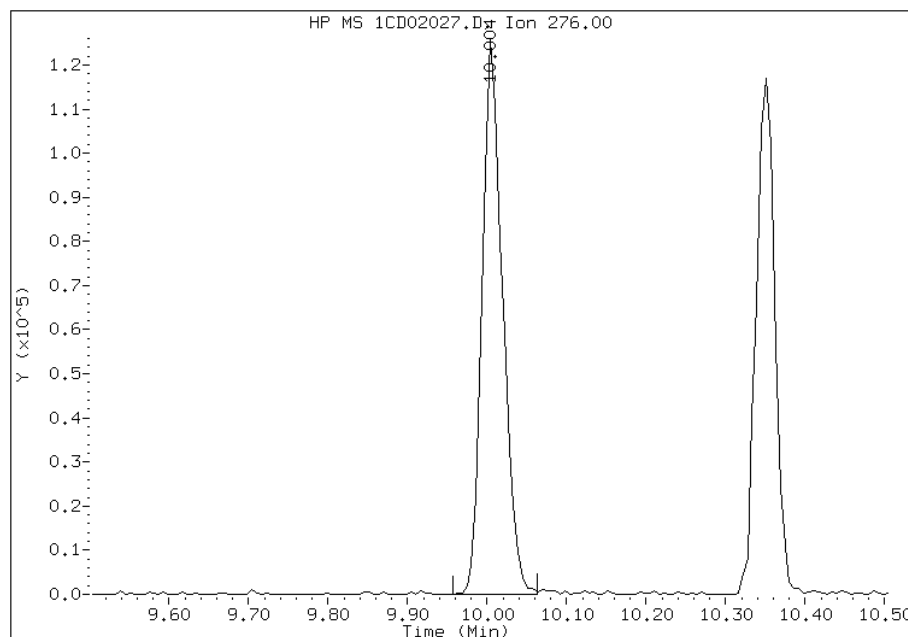


Manual Integration Report

Data File: 1CD02027.D
Inj. Date and Time: 02-APR-2013 20:19
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

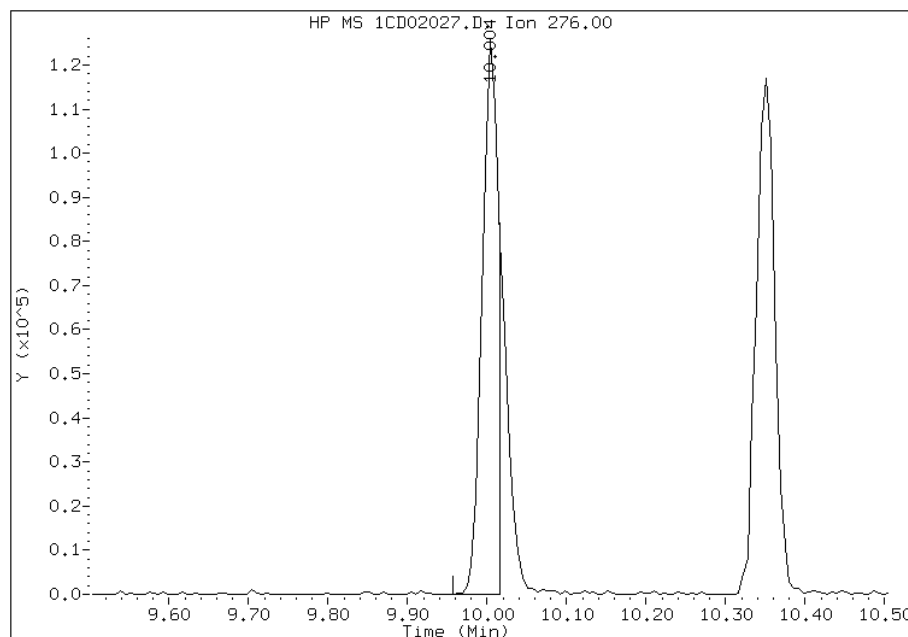
Processing Integration Results

RT: 10.00
Response: 222676
Amount: 8
Conc: 507



Manual Integration Results

RT: 10.00
Response: 176973
Amount: 6
Conc: 403



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-135965/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD02010.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/01/2013 08:27</u>
Sample wt/vol: <u>14.95(g)</u>	Date Analyzed: <u>04/02/2013 13:47</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136046</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	456		100	20
208-96-8	Acenaphthylene	468		40	5.0
120-12-7	Anthracene	486		8.4	4.2
56-55-3	Benzo[a]anthracene	551		8.0	3.9
50-32-8	Benzo[a]pyrene	490		10	5.2
205-99-2	Benzo[b]fluoranthene	533		12	6.1
191-24-2	Benzo[g,h,i]perylene	516		20	4.4
207-08-9	Benzo[k]fluoranthene	521		8.0	3.6
218-01-9	Chrysene	493		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	552		20	4.1
206-44-0	Fluoranthene	530		20	4.0
86-73-7	Fluorene	503		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	484		20	7.1
90-12-0	1-Methylnaphthalene	504		40	4.4
91-57-6	2-Methylnaphthalene	490		40	7.1
91-20-3	Naphthalene	471		40	4.4
85-01-8	Phenanthrene	489		8.0	3.9
129-00-0	Pyrene	486		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02010.D
Lab Smp Id: LCS 660-135965/2-A
Inj Date : 02-APR-2013 13:47
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-135965/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\dFASTPAHi.m
Meth Date : 02-Apr-2013 13:04 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.090	6.092	(1.000)		2784956	40.0000	
* 6 Acenaphthene-d10	164		7.770	7.773	(1.000)		1814403	40.0000	
* 9 Phenanthrene-d10	188		9.033	9.036	(1.000)		2934792	40.0000	
\$ 13 o-Terphenyl	230		9.339	9.342	(1.034)		339403	7.47853	500
* 17 Chrysene-d12	240		11.360	11.363	(1.000)		3047201	40.0000	
* 22 Perylene-d12	264		13.205	13.208	(1.000)		2977201	40.0000	
2 Naphthalene	128		6.113	6.116	(1.004)		524467	7.03988	470
3 2-Methylnaphthalene	142		6.818	6.821	(1.120)		347623	7.32504	490
4 1-Methylnaphthalene	142		6.912	6.915	(1.135)		334770	7.53307	500
5 Acenaphthylene	152		7.641	7.644	(0.983)		559659	6.99639	470
7 Acenaphthene	154		7.799	7.796	(1.004)		332301	6.81314	460
8 Fluorene	166		8.240	8.243	(1.060)		428301	7.51592	500
10 Phenanthrene	178		9.051	9.054	(1.002)		609320	7.31397	490
11 Anthracene	178		9.092	9.095	(1.007)		605968	7.26994	490

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.227	9.230	(1.021)	397824	5.33895	360
14 Fluoranthene	202	10.032	10.035	(1.111)	688307	7.91711	530
15 Pyrene	202	10.220	10.223	(0.900)	686419	7.26205	480
16 Benzo(a)anthracene	228	11.336	11.339	(0.998)	687627	8.24239	550
18 Chrysene	228	11.378	11.386	(1.002)	634717	7.36944	490
19 Benzo(b)fluoranthene	252	12.647	12.655	(0.958)	610240	7.96319	530
20 Benzo(k)fluoranthene	252	12.682	12.696	(0.960)	625559	7.79640	520
21 Benzo(a)pyrene	252	13.099	13.114	(0.992)	555794	7.32907	490
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.812	(1.120)	585201	7.23104	480(M)
24 Dibenzo(a,h)anthracene	278	14.815	14.841	(1.122)	616494	8.24853	550
25 Benzo(g,h,i)perylene	276	15.232	15.258	(1.154)	595525	7.71796	520

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD02010.D

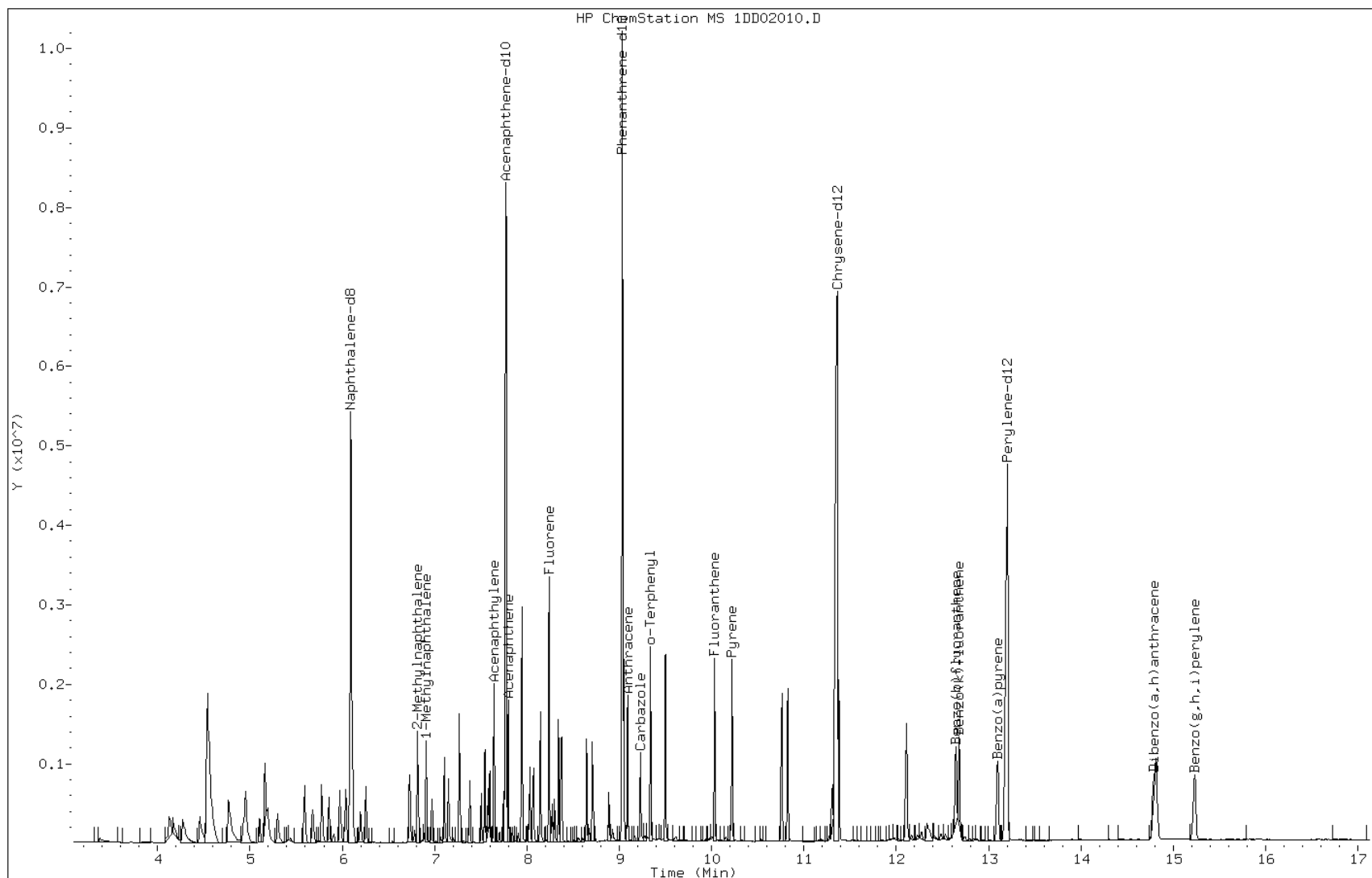
Date: 02-APR-2013 13:47

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-135965/2-A

Operator: SCC

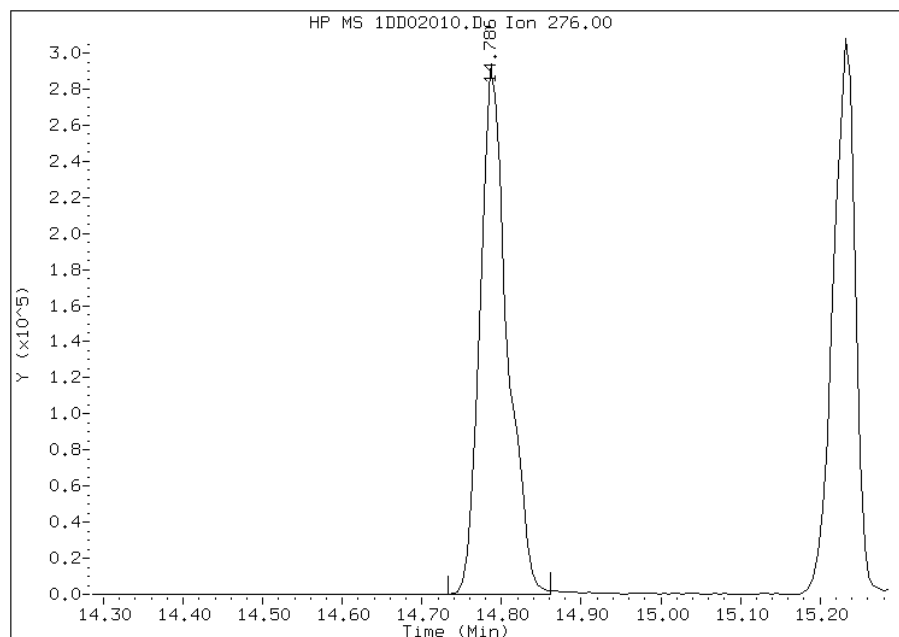


Manual Integration Report

Data File: 1DD02010.D
Inj. Date and Time: 02-APR-2013 13:47
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

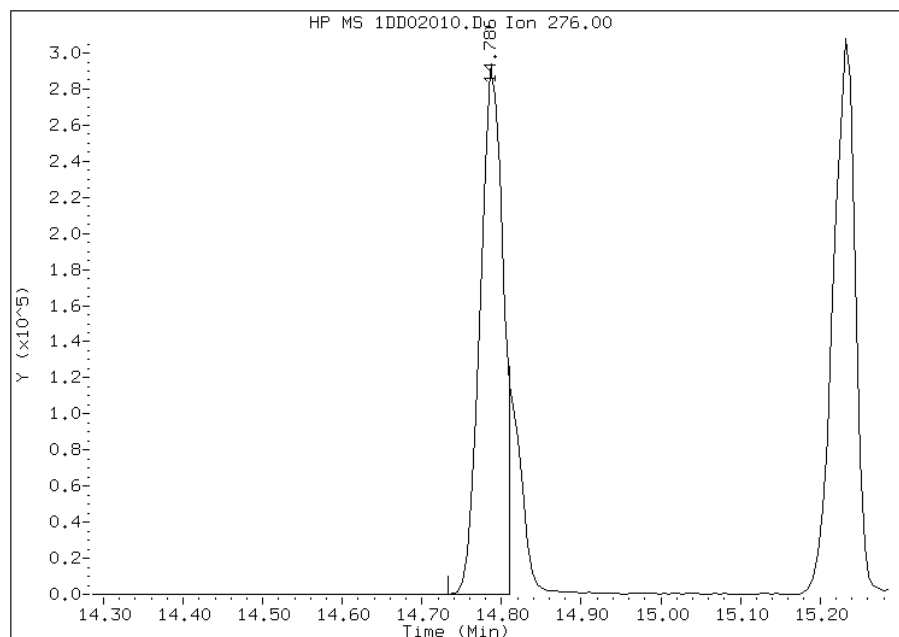
Processing Integration Results

RT: 14.79
Response: 691683
Amount: 9
Conc: 572



Manual Integration Results

RT: 14.79
Response: 585201
Amount: 7
Conc: 484



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 14:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-88632-A-10-D MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD01016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>14.97(g)</u>	Date Analyzed: <u>04/01/2013 15:47</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135996</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	674		510	100
208-96-8	Acenaphthylene	736		200	26
120-12-7	Anthracene	936		43	21
56-55-3	Benzo[a]anthracene	2110		41	20
50-32-8	Benzo[a]pyrene	2020		53	27
205-99-2	Benzo[b]fluoranthene	2820		62	31
191-24-2	Benzo[g,h,i]perylene	1560		100	22
207-08-9	Benzo[k]fluoranthene	1490		41	18
218-01-9	Chrysene	2080		46	23
53-70-3	Dibenz(a,h)anthracene	1030		100	21
206-44-0	Fluoranthene	3460		100	20
86-73-7	Fluorene	698		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1420		100	36
90-12-0	1-Methylnaphthalene	1050		200	22
91-57-6	2-Methylnaphthalene	920		200	36
91-20-3	Naphthalene	783		200	22
85-01-8	Phenanthrene	2180		41	20
129-00-0	Pyrene	3030		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\1C040113.b\1CD01016.D
Lab Smp Id: 680-88632-a-10-d ms
Inj Date : 01-APR-2013 15:47
Operator : SCC
Smp Info : 680-88632-a-10-d ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins
Cal Date : 22-FEB-2013 13:48
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CB22009.D

QC Sample: MS

Compound Sublist: pah.sub

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	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	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	3.716	3.716	(1.000)	655029	40.0000	
* 6 Acenaphthene-d10		164	4.804	4.804	(1.000)	516035	40.0000	
* 10 Phenanthrene-d10		188	5.751	5.757	(1.000)	936821	40.0000	
\$ 14 o-Terphenyl		230	6.004	6.004	(1.044)	26684	1.88654	504.0859
* 18 Chrysene-d12		240	7.692	7.698	(1.000)	1084495	40.0000	
* 23 Perylene-d12		264	8.868	8.886	(1.000)	1027644	40.0000	
2 Naphthalene		128	3.733	3.733	(1.005)	39183	2.29773	613.9572
3 2-Methylnaphthalene		142	4.157	4.157	(1.119)	30711	2.69986	721.4064
4 1-Methylnaphthalene		142	4.222	4.222	(1.136)	31977	3.08661	824.7446
5 Acenaphthylene		152	4.716	4.716	(0.982)	44961	2.16108	577.4419
7 Acenaphthene		154	4.827	4.827	(1.005)	25598	1.97952	528.9298
9 Fluorene		166	5.145	5.145	(1.071)	33494	2.04805	547.2399
11 Phenanthrene		178	5.768	5.768	(1.003)	173368	6.40001	1710.0884(R)
12 Anthracene		178	5.804	5.804	(1.009)	72756	2.74628	733.8078

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.910	5.910	(1.028)	55407	2.35273	628.6523
15 Fluoranthene	202	6.604	6.604	(1.148)	301652	10.1685	2717.0259(R)
16 Pyrene	202	6.774	6.774	(0.881)	259547	8.90560	2379.5859(R)
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	194276	6.20678	1658.4575(R)
19 Chrysene	228	7.710	7.715	(1.002)	191056	6.09932	1629.7455(R)
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	222060	8.26849	2209.3506(R)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	120550	4.37564	1169.1759(R)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	154416	5.91947	1581.6882(R)
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	102015	4.15715	1110.7944(RM)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	72477	3.01947	806.8050
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.169)	117335	4.57080	1221.3233(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: 1CD01016.D

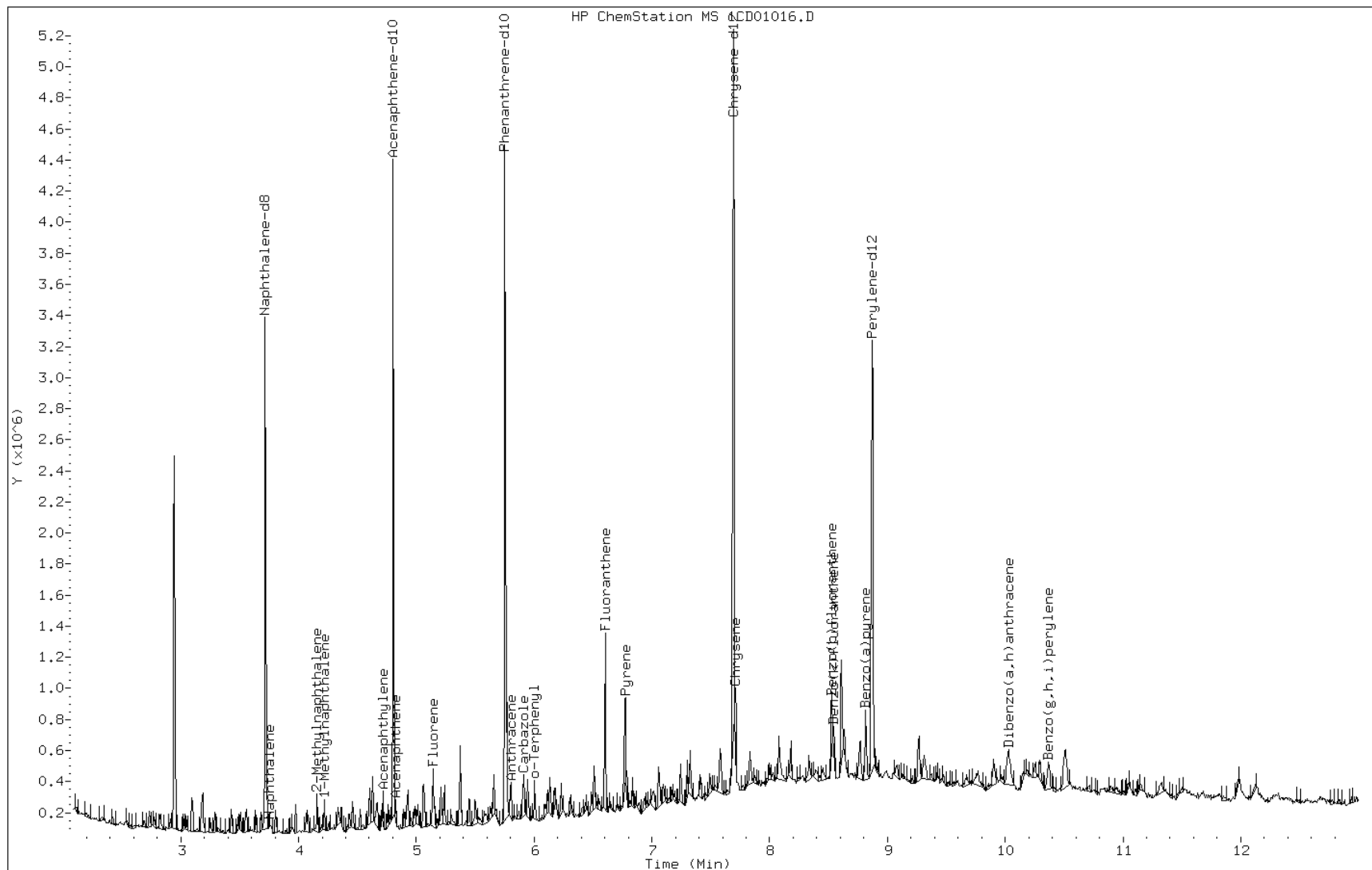
Date: 01-APR-2013 15:47

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-d ms

Operator: SCC

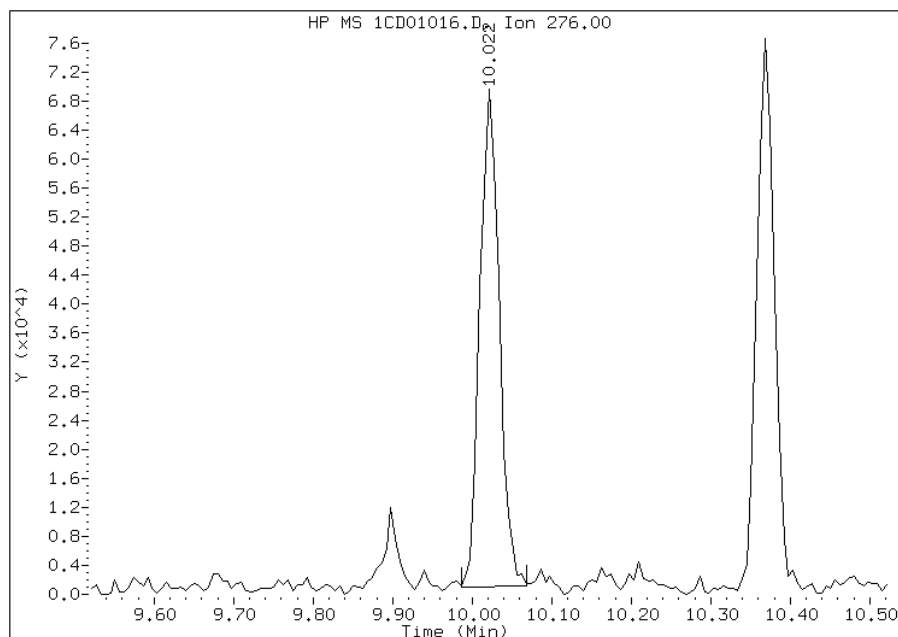


Manual Integration Report

Data File: 1CD01016.D
Inj. Date and Time: 01-APR-2013 15:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

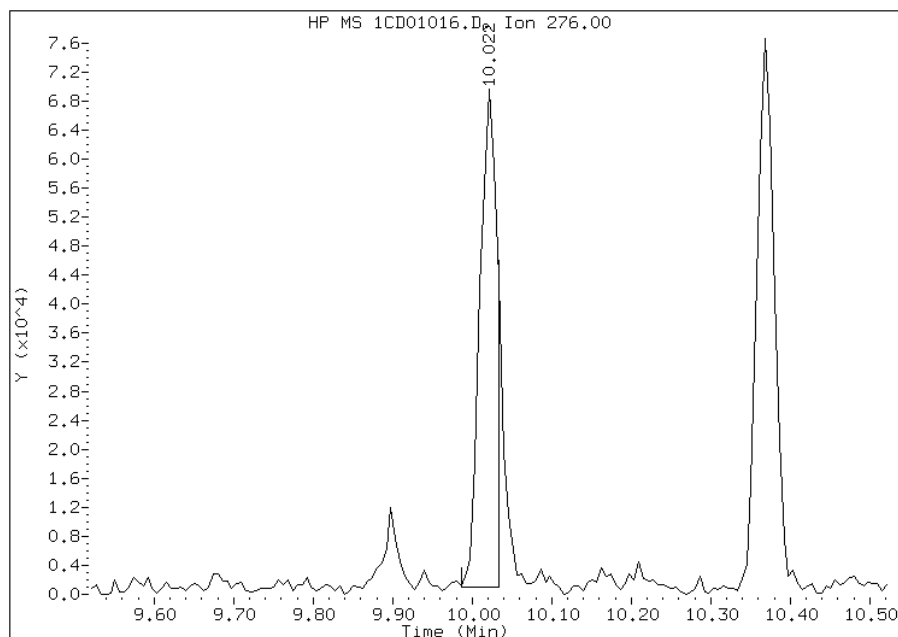
Processing Integration Results

RT: 10.02
Response: 115502
Amount: 5
Conc: 1258



Manual Integration Results

RT: 10.02
Response: 102015
Amount: 4
Conc: 1111



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-88632-A-21-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD02029.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2013 10:19</u>
Sample wt/vol: <u>15.01(g)</u>	Date Analyzed: <u>04/02/2013 20:56</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>18.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136079</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	449		120	25
208-96-8	Acenaphthylene	445		49	6.1
120-12-7	Anthracene	430		10	5.1
56-55-3	Benzo[a]anthracene	578		9.8	4.8
50-32-8	Benzo[a]pyrene	499		13	6.4
205-99-2	Benzo[b]fluoranthene	613		15	7.5
191-24-2	Benzo[g,h,i]perylene	463		25	5.4
207-08-9	Benzo[k]fluoranthene	560		9.8	4.4
218-01-9	Chrysene	553		11	5.5
53-70-3	Dibenz(a,h)anthracene	479		25	5.0
206-44-0	Fluoranthene	598		25	4.9
86-73-7	Fluorene	502		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	413		25	8.7
90-12-0	1-Methylnaphthalene	610		49	5.4
91-57-6	2-Methylnaphthalene	567		49	8.7
91-20-3	Naphthalene	572		49	5.4
85-01-8	Phenanthrene	565		9.8	4.8
129-00-0	Pyrene	597		25	4.5

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\1C040213B.b\1CD02029.D
Lab Smp Id: 680-88632-a-21-b ms
Inj Date : 02-APR-2013 20:56
Operator : SCC
Smp Info : 680-88632-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02029.D
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 28 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	583262	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	519154	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1060524	40.0000	
\$	14 o-Terphenyl	230	5.998	5.998	(1.044)	94046	6.15833	410.2818
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	1203389	40.0000	
*	23 Perylene-d12	264	8.862	8.862	(1.000)	1130015	40.0000	
	2 Naphthalene	128	3.721	3.721	(1.003)	104847	6.99868	466.2680
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	70822	6.94484	462.6811
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	68479	7.46283	497.1903
	5 Acenaphthylene	152	4.710	4.710	(0.982)	117067	5.44839	362.9842
	7 Acenaphthene	154	4.821	4.821	(1.005)	73074	5.49096	365.8198
	9 Fluorene	166	5.139	5.139	(1.071)	109114	6.15040	409.7533
	11 Phenanthrene	178	5.762	5.763	(1.003)	213472	6.91130	460.4463
	12 Anthracene	178	5.798	5.798	(1.009)	164837	5.26455	350.7362

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.904	5.904	(1.028)	155965	5.81409	387.3480
15 Fluoranthene	202	6.598	6.598	(1.148)	249886	7.32562	488.0494
16 Pyrene	202	6.762	6.762	(0.880)	243521	7.30531	486.6960
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	242060	7.07779	471.5383
19 Chrysene	228	7.704	7.704	(1.002)	232055	6.76716	450.8436
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	239670	7.50223	499.8157
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	211918	6.85863	456.9374
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	183801	6.11104	407.1313
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	144499	5.05819	336.9881(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	154724	5.86310	390.6126
26 Benzo(g,h,i)perylene	276	10.350	10.356	(1.168)	165119	5.66322	377.2967

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02029.D

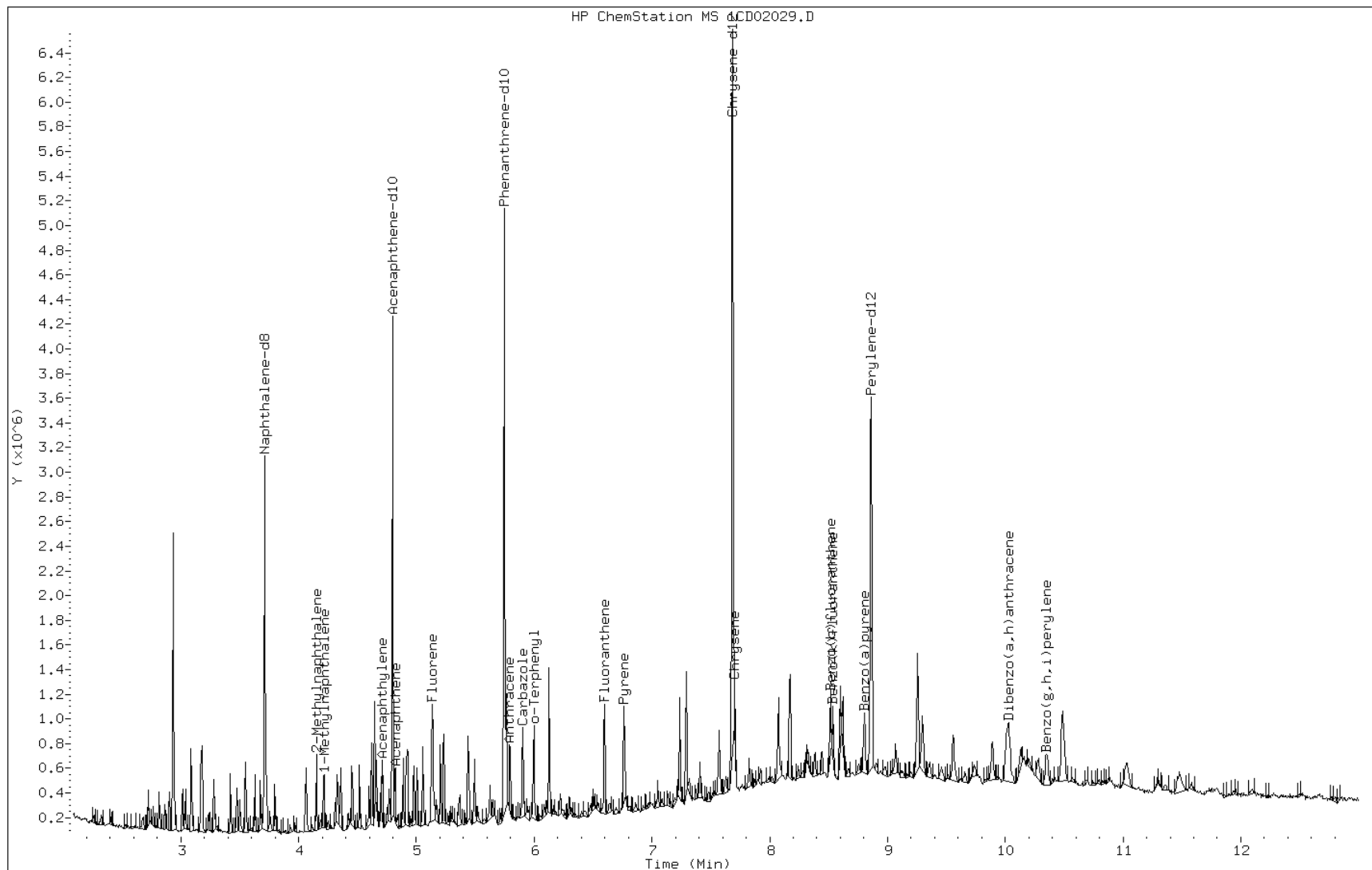
Date: 02-APR-2013 20:56

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-b ms

Operator: SCC

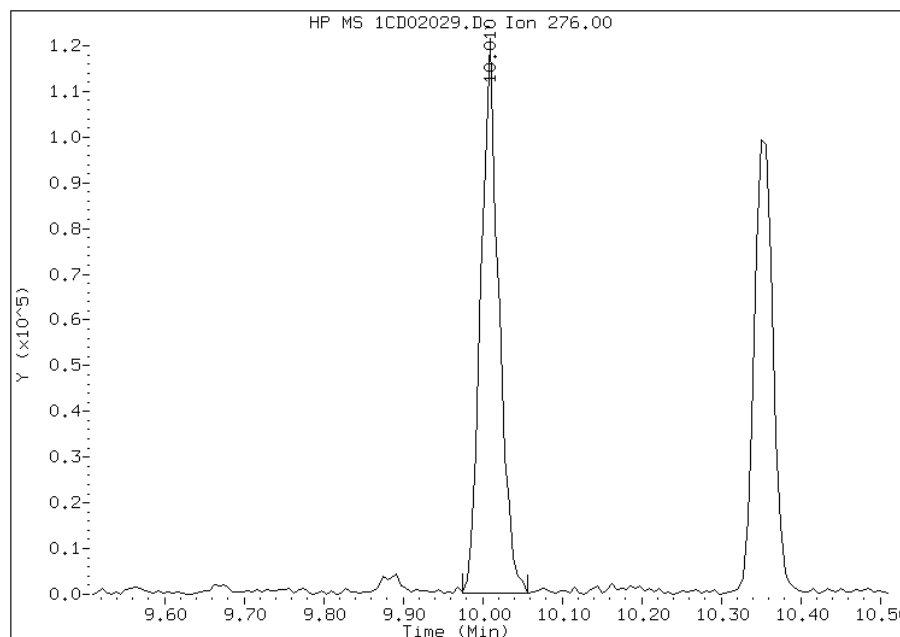


Manual Integration Report

Data File: 1CD02029.D
Inj. Date and Time: 02-APR-2013 20:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

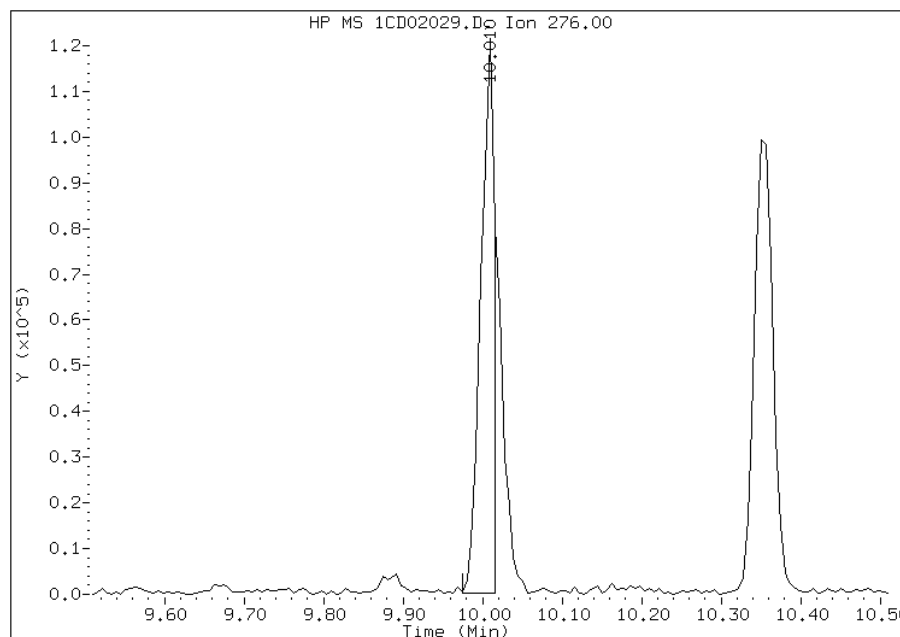
Processing Integration Results

RT: 10.01
Response: 188533
Amount: 7
Conc: 440



Manual Integration Results

RT: 10.01
Response: 144499
Amount: 5
Conc: 337



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>CV0664A-CS-SP MS</u>	Lab Sample ID: <u>680-88632-45 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD02012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 08:56</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/01/2013 08:27</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/02/2013 14:32</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>17.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136046</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430		120	24
208-96-8	Acenaphthylene	431		49	6.1
120-12-7	Anthracene	486		10	5.1
56-55-3	Benzo[a]anthracene	685		9.8	4.8
50-32-8	Benzo[a]pyrene	556		13	6.4
205-99-2	Benzo[b]fluoranthene	714		15	7.5
191-24-2	Benzo[g,h,i]perylene	585		24	5.4
207-08-9	Benzo[k]fluoranthene	543		9.8	4.4
218-01-9	Chrysene	667		11	5.5
53-70-3	Dibenz(a,h)anthracene	526		24	5.0
206-44-0	Fluoranthene	840		24	4.9
86-73-7	Fluorene	477		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	537		24	8.7
90-12-0	1-Methylnaphthalene	563		49	5.4
91-57-6	2-Methylnaphthalene	565		49	8.7
91-20-3	Naphthalene	510		49	5.4
85-01-8	Phenanthrene	764		9.8	4.8
129-00-0	Pyrene	734		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02012.D
 Lab Smp Id: 680-88632-A-45-B MS
 Inj Date : 02-APR-2013 14:32
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88632-A-45-B MS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\dFASTPAHi.m
 Meth Date : 02-Apr-2013 13:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 11 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.091	6.092	(1.000)	3026716	40.0000		
*	6 Acenaphthene-d10	164	7.771	7.773	(1.000)	1926427	40.0000		
*	9 Phenanthrene-d10	188	9.034	9.036	(1.000)	3186482	40.0000		
\$	13 o-Terphenyl	230	9.340	9.342	(1.034)	266133	5.40088	360	
*	17 Chrysene-d12	240	11.361	11.363	(1.000)	3182619	40.0000		
*	22 Perylene-d12	264	13.218	13.208	(1.000)	3329282	40.0000		
	2 Naphthalene	128	6.114	6.116	(1.004)	506661	6.25765	420	
	3 2-Methylnaphthalene	142	6.819	6.821	(1.120)	357667	6.93469	460	
	4 1-Methylnaphthalene	142	6.913	6.915	(1.135)	333715	6.90952	460	
	5 Acenaphthylene	152	7.642	7.644	(0.983)	449722	5.29512	350	
	7 Acenaphthene	154	7.800	7.796	(1.004)	273385	5.27924	350	
	8 Fluorene	166	8.241	8.243	(1.060)	354277	5.85541	390	
	10 Phenanthrene	178	9.052	9.054	(1.002)	848854	9.38440	630	
	11 Anthracene	178	9.093	9.095	(1.007)	539859	5.96523	400	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.234	9.230	(1.022)	437446	5.40699	360
14 Fluoranthene	202	10.039	10.035	(1.111)	973834	10.3166	690
15 Pyrene	202	10.227	10.223	(0.900)	890298	9.01824	600
16 Benzo(a)anthracene	228	11.343	11.339	(0.998)	732523	8.40694	560
18 Chrysene	228	11.384	11.386	(1.002)	737347	8.19677	550
19 Benzo(b)fluoranthene	252	12.659	12.655	(0.958)	751224	8.76625	580
20 Benzo(k)fluoranthene	252	12.695	12.696	(0.960)	598654	6.67205	440
21 Benzo(a)pyrene	252	13.112	13.114	(0.992)	578628	6.82326	460
23 Indeno(1,2,3-cd)pyrene	276	14.816	14.812	(1.121)	596819	6.59471	440(M)
24 Dibenzo(a,h)anthracene	278	14.839	14.841	(1.123)	540260	6.46410	430
25 Benzo(g,h,i)perylene	276	15.268	15.258	(1.155)	620276	7.18861	480

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD02012.D

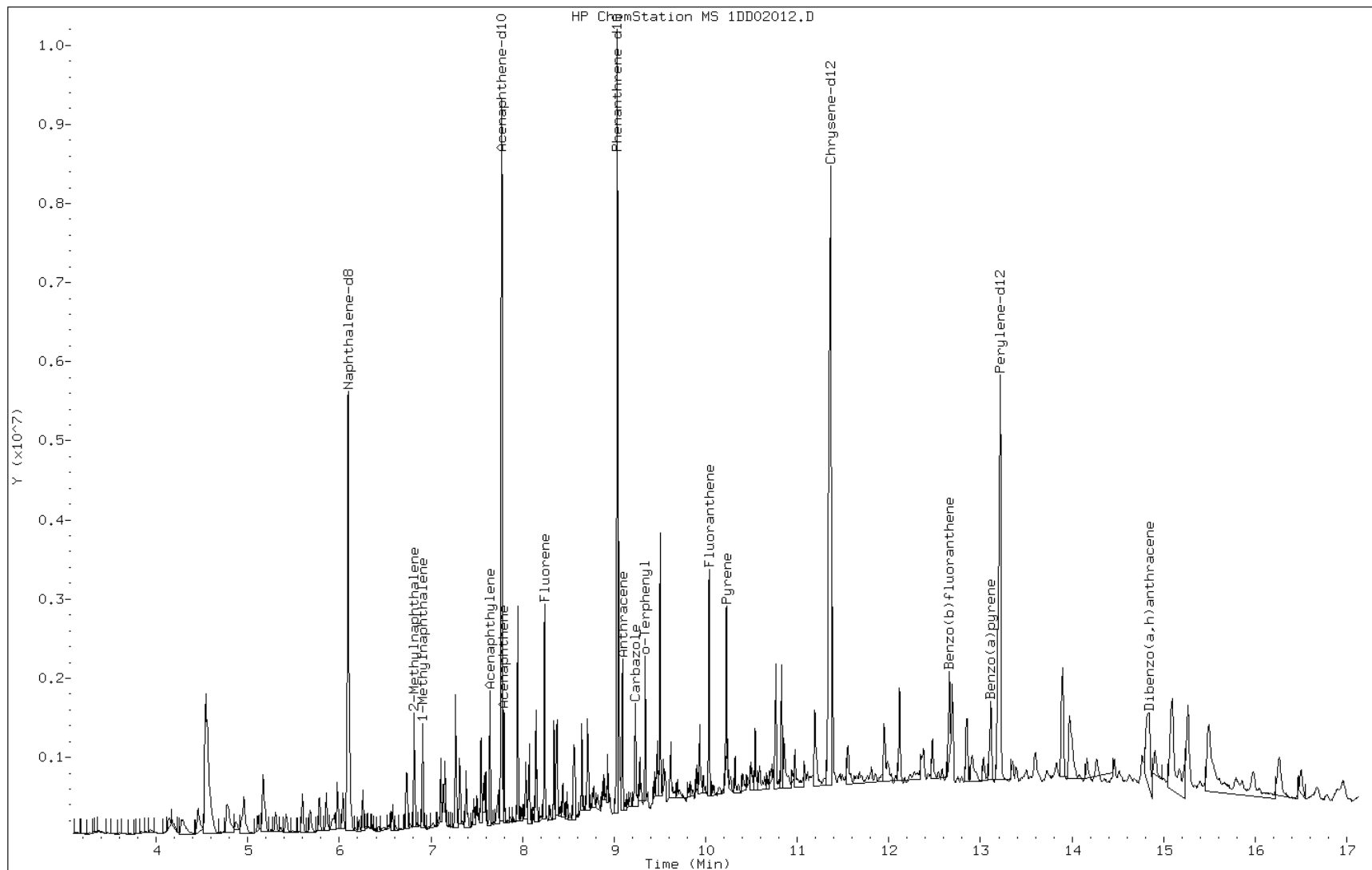
Date: 02-APR-2013 14:32

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-B MS

Operator: SCC

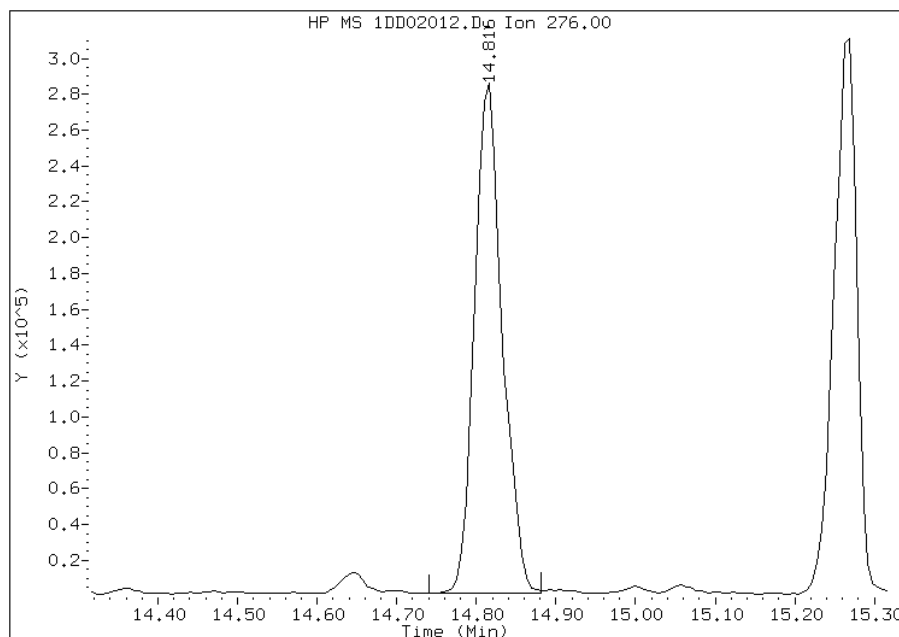


Manual Integration Report

Data File: 1DD02012.D
Inj. Date and Time: 02-APR-2013 14:32
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

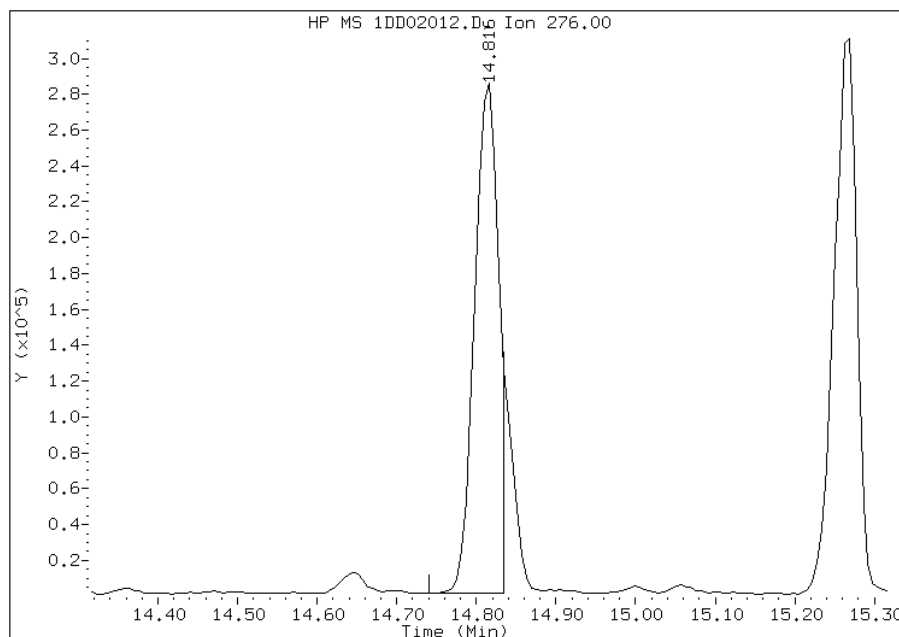
Processing Integration Results

RT: 14.82
Response: 688465
Amount: 8
Conc: 509



Manual Integration Results

RT: 14.82
Response: 596819
Amount: 7
Conc: 441



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 16:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-88632-A-10-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD01017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/27/2013 15:04</u>
Sample wt/vol: <u>14.94(g)</u>	Date Analyzed: <u>04/01/2013 16:05</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135996</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	695		510	100
208-96-8	Acenaphthylene	844		200	26
120-12-7	Anthracene	1160		43	22
56-55-3	Benzo[a]anthracene	4010		41	20
50-32-8	Benzo[a]pyrene	3770		53	27
205-99-2	Benzo[b]fluoranthene	5430		62	31
191-24-2	Benzo[g,h,i]perylene	2480		100	23
207-08-9	Benzo[k]fluoranthene	2920		41	18
218-01-9	Chrysene	4100		46	23
53-70-3	Dibenz(a,h)anthracene	1210		100	21
206-44-0	Fluoranthene	6580		100	20
86-73-7	Fluorene	724		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	2460		100	36
90-12-0	1-Methylnaphthalene	816		200	23
91-57-6	2-Methylnaphthalene	621		200	36
91-20-3	Naphthalene	681		200	23
85-01-8	Phenanthrene	3080		41	20
129-00-0	Pyrene	6020		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01017.D
Lab Smp Id: 680-88632-a-10-c ms
Inj Date : 01-APR-2013 16:05
Operator : SCC
Smp Info : 680-88632-a-10-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1a-bFASTPAHi-m.m
Meth Date : 01-Apr-2013 11:47 cantins
Cal Date : 22-FEB-2013 13:48
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CB22009.D

QC Sample: MSD

Compound Sublist: pah.sub

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)	
=====		====	====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	3.716	3.716	(1.000)	691250	40.0000		
*	6 Acenaphthene-d10	164	4.804	4.804	(1.000)	560459	40.0000		
*	10 Phenanthrene-d10	188	5.751	5.757	(1.000)	1008510	40.0000		
\$	14 o-Terphenyl	230	6.004	6.004	(1.044)	24827	1.63048	436.5414	
*	18 Chrysene-d12	240	7.692	7.698	(1.000)	1100421	40.0000		
*	23 Perylene-d12	264	8.874	8.886	(1.000)	1067194	40.0000		
	2 Naphthalene	128	3.733	3.733	(1.005)	35894	1.99457	534.0216	
	3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	21851	1.82031	487.3645	
	4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	26137	2.39070	640.0797	
	5 Acenaphthylene	152	4.716	4.716	(0.982)	55841	2.47128	661.6557	
	7 Acenaphthene	154	4.821	4.827	(1.004)	28581	2.03501	544.8488	
	9 Fluorene	166	5.145	5.145	(1.071)	37651	2.11975	567.5365	
	11 Phenanthrene	178	5.768	5.768	(1.003)	263314	9.02946	2417.5262(R)	
	12 Anthracene	178	5.804	5.804	(1.009)	96510	3.38395	906.0110(R)	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.910	5.910	(1.028)	70891	2.79624	748.6599
15 Fluoranthene	202	6.604	6.604	(1.148)	615918	19.2863	5163.6653(R)
16 Pyrene	202	6.774	6.774	(0.881)	521557	17.6367	4722.0116(R)
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	372740	11.7360	3142.1803(R)
19 Chrysene	228	7.715	7.715	(1.003)	381538	12.0040	3213.9330(R)
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	443258	15.8932	4255.2140(R)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	244848	8.55796	2291.2883(R)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	299567	11.0582	2960.6909(R)
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039	(1.130)	183377	7.19574	1926.5711(RM)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.131)	88676	3.55742	952.4561(R)
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	193725	7.26691	1945.6256(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: 1CD01017.D

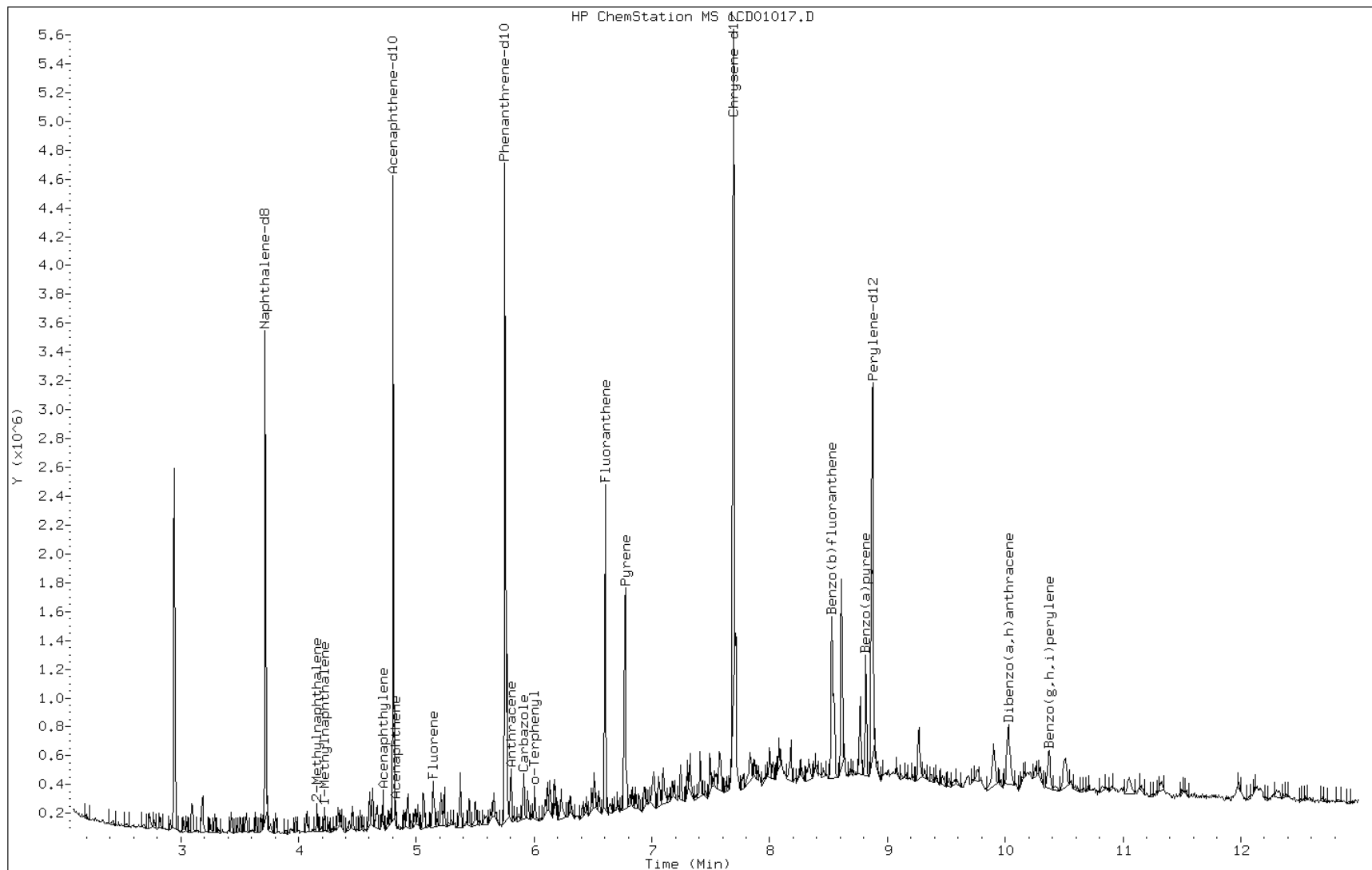
Date: 01-APR-2013 16:05

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-c msd

Operator: SCC

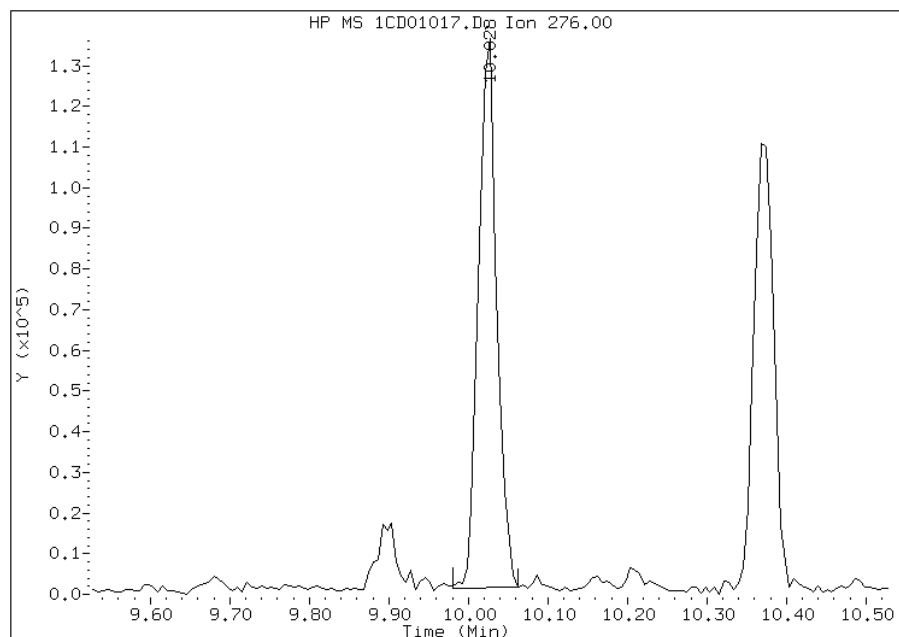


Manual Integration Report

Data File: 1CD01017.D
Inj. Date and Time: 01-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

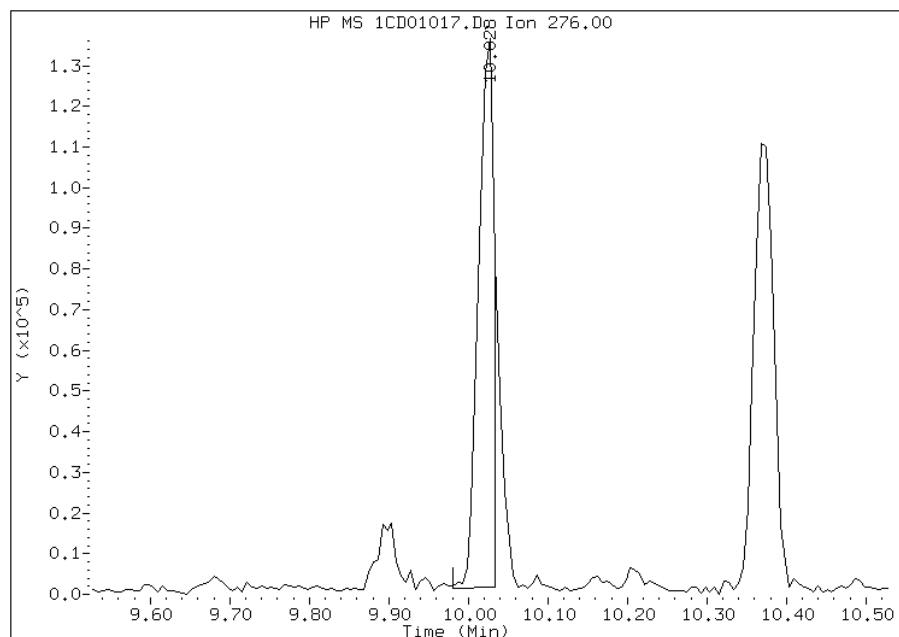
Processing Integration Results

RT: 10.03
Response: 213712
Amount: 8
Conc: 2245



Manual Integration Results

RT: 10.03
Response: 183377
Amount: 7
Conc: 1927



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 17:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-88632-A-21-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD02030.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2013 10:19</u>
Sample wt/vol: <u>15.05(g)</u>	Date Analyzed: <u>04/02/2013 21:14</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>18.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136079</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	487		120	24
208-96-8	Acenaphthylene	546		49	6.1
120-12-7	Anthracene	560		10	5.1
56-55-3	Benzo[a]anthracene	708		9.8	4.8
50-32-8	Benzo[a]pyrene	651		13	6.4
205-99-2	Benzo[b]fluoranthene	797		15	7.5
191-24-2	Benzo[g,h,i]perylene	579		24	5.4
207-08-9	Benzo[k]fluoranthene	696		9.8	4.4
218-01-9	Chrysene	684		11	5.5
53-70-3	Dibenz(a,h)anthracene	567		24	5.0
206-44-0	Fluoranthene	765		24	4.9
86-73-7	Fluorene	538		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	581		24	8.7
90-12-0	1-Methylnaphthalene	644		49	5.4
91-57-6	2-Methylnaphthalene	622		49	8.7
91-20-3	Naphthalene	608		49	5.4
85-01-8	Phenanthrene	684		9.8	4.8
129-00-0	Pyrene	746		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02030.D
 Lab Smp Id: 680-88632-a-21-c ms
 Inj Date : 02-APR-2013 21:14
 Operator : SCC
 Smp Info : 680-88632-a-21-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02030.D
 Meth Date : 02-Apr-2013 16:55 cantins
 Cal Date : 02-APR-2013 15:15
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CD02011.D

QC Sample: MSD

Compound Sublist: pah.sub

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.710	3.710	(1.000)		597406	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.798	(1.000)		494548	40.0000	
* 10 Phenanthrene-d10	188		5.745	5.745	(1.000)		988760	40.0000	
\$ 14 o-Terphenyl	230		5.998	5.998	(1.044)		90848	6.35450	422.2257
* 18 Chrysene-d12	240		7.686	7.686	(1.000)		1197197	40.0000	
* 23 Perylene-d12	264		8.862	8.862	(1.000)		1105114	40.0000	
2 Naphthalene	128		3.727	3.721	(1.005)		114458	7.45934	495.6374
3 2-Methylnaphthalene	142		4.151	4.151	(1.119)		79708	7.63116	507.0535
4 1-Methylnaphthalene	142		4.216	4.216	(1.136)		74315	7.90709	525.3878
5 Acenaphthylene	152		4.710	4.710	(0.982)		137103	6.69836	445.0740
7 Acenaphthene	154		4.821	4.821	(1.005)		75785	5.97800	397.2094
9 Fluorene	166		5.139	5.139	(1.071)		111591	6.60298	438.7358
11 Phenanthrene	178		5.762	5.763	(1.003)		241783	8.39603	557.8760
12 Anthracene	178		5.798	5.798	(1.009)		200584	6.87120	456.5580

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.904	5.904	(1.028)	185427	7.41408	492.6301
15 Fluoranthene	202	6.598	6.598	(1.148)	298637	9.39022	623.9349
16 Pyrene	202	6.762	6.762	(0.880)	303582	9.15416	608.2499
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	296917	8.69510	577.7478
19 Chrysene	228	7.704	7.704	(1.002)	286623	8.40170	558.2524
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	305637	9.78273	650.0152
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	258319	8.54876	568.0238
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	234959	7.98797	530.7622
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	199356	7.13571	474.1332(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	179461	6.95371	462.0405
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	202688	7.10840	472.3189

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02030.D

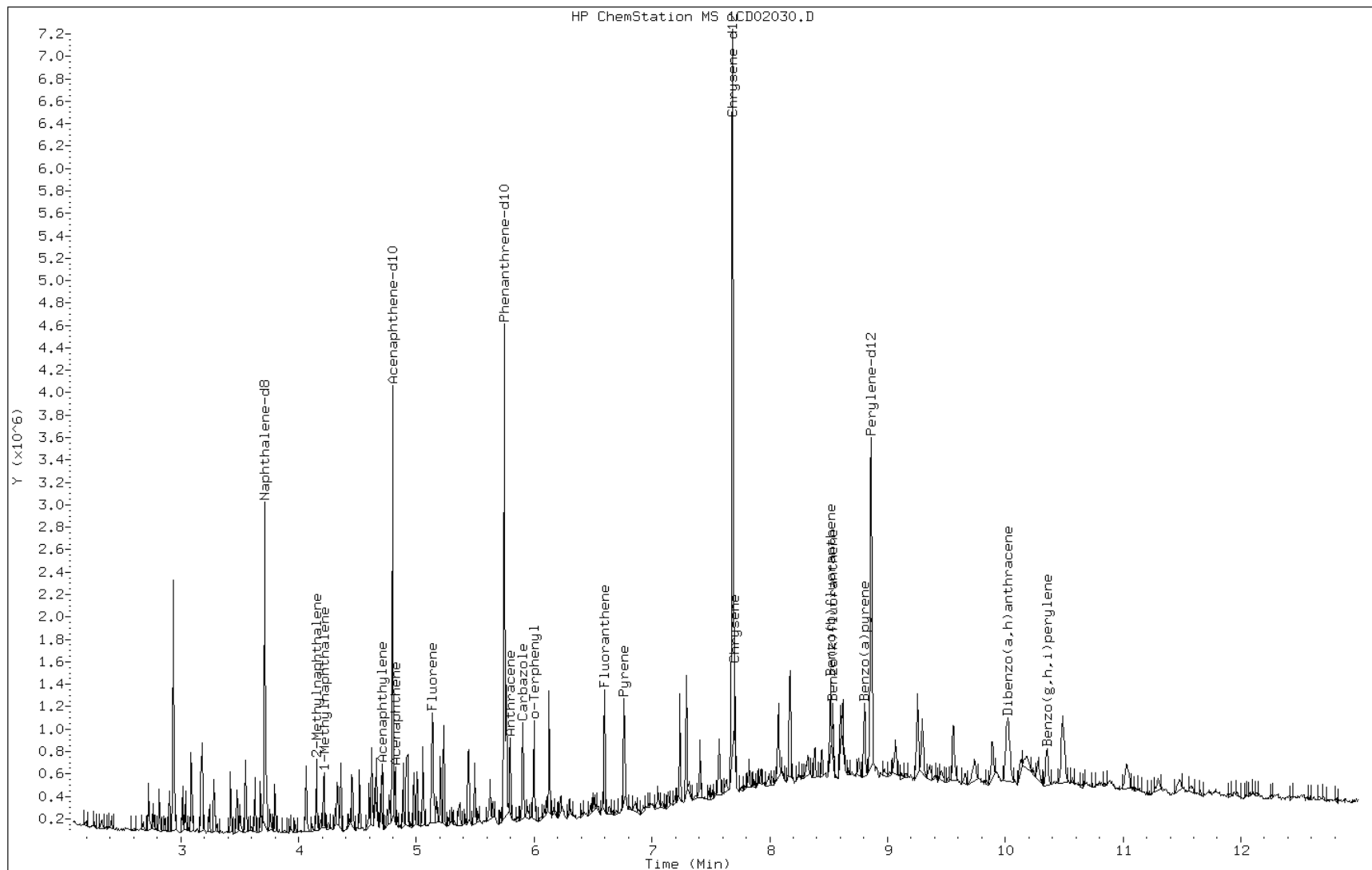
Date: 02-APR-2013 21:14

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-c msd

Operator: SCC

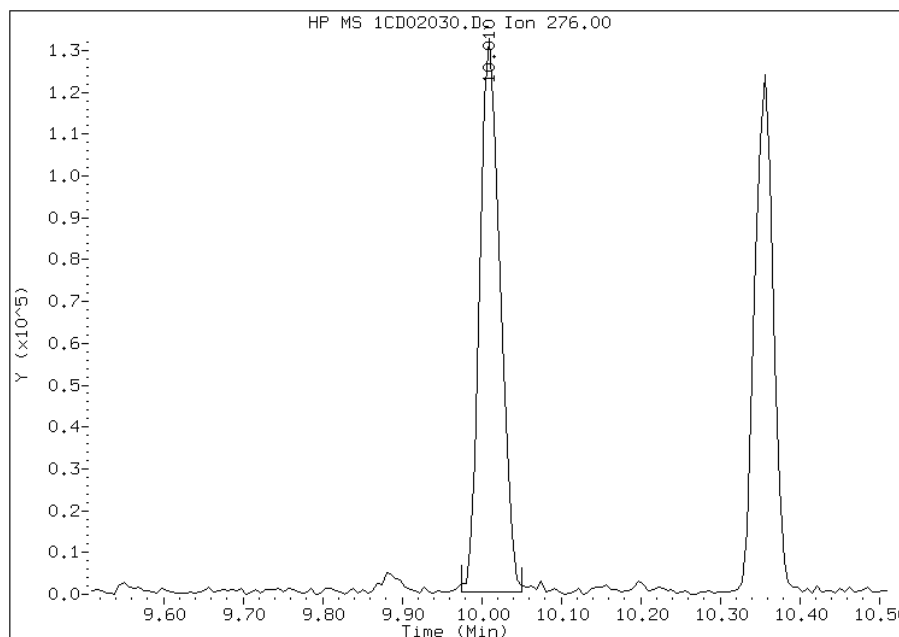


Manual Integration Report

Data File: 1CD02030.D
Inj. Date and Time: 02-APR-2013 21:14
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

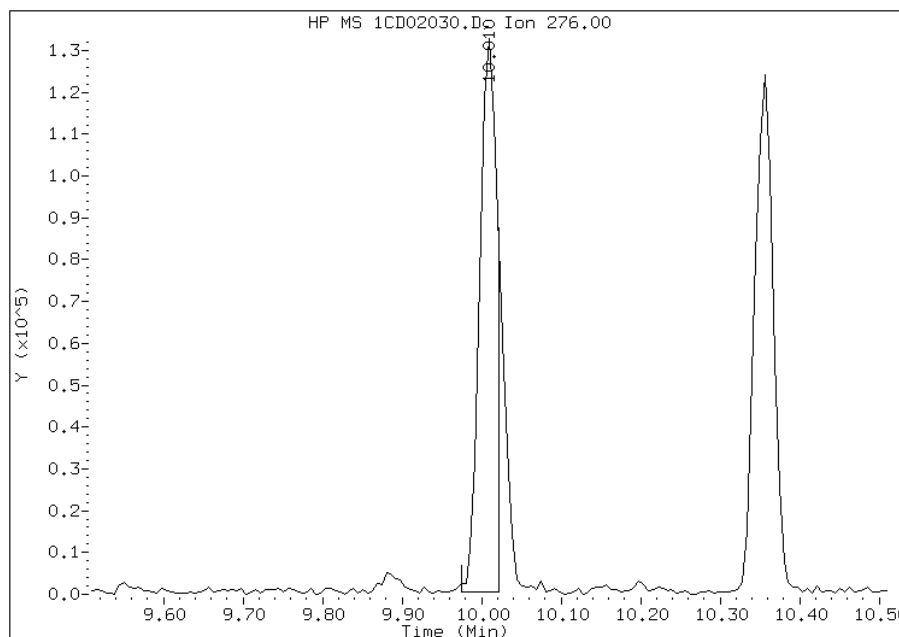
Processing Integration Results

RT: 10.01
Response: 234569
Amount: 8
Conc: 558



Manual Integration Results

RT: 10.01
Response: 199356
Amount: 7
Conc: 474



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88632-3</u>
SDG No.: <u>68088632-3</u>	
Client Sample ID: <u>CV0664A-CS-SP MSD</u>	Lab Sample ID: <u>680-88632-45 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD02013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/22/2013 08:56</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/01/2013 08:27</u>
Sample wt/vol: <u>14.92(g)</u>	Date Analyzed: <u>04/02/2013 14:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>17.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136046</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	388		120	24
208-96-8	Acenaphthylene	410		49	6.1
120-12-7	Anthracene	456		10	5.1
56-55-3	Benzo[a]anthracene	605		9.8	4.8
50-32-8	Benzo[a]pyrene	516		13	6.4
205-99-2	Benzo[b]fluoranthene	617		15	7.5
191-24-2	Benzo[g,h,i]perylene	551		24	5.4
207-08-9	Benzo[k]fluoranthene	541		9.8	4.4
218-01-9	Chrysene	624		11	5.5
53-70-3	Dibenz(a,h)anthracene	536		24	5.0
206-44-0	Fluoranthene	691		24	4.9
86-73-7	Fluorene	438		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	534		24	8.7
90-12-0	1-Methylnaphthalene	509		49	5.4
91-57-6	2-Methylnaphthalene	495		49	8.7
91-20-3	Naphthalene	446		49	5.4
85-01-8	Phenanthrene	660		9.8	4.8
129-00-0	Pyrene	619		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\1DD02013.D
Lab Smp Id: 680-88632-A-45-C MS
Inj Date : 02-APR-2013 14:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88632-A-45-C MSD
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040213.b\dFASTPAHi.m
Meth Date : 02-Apr-2013 13:04 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.096	6.092	(1.000)	3088649	40.0000		
*	6 Acenaphthene-d10	164	7.776	7.773	(1.000)	1951701	40.0000		
*	9 Phenanthrene-d10	188	9.039	9.036	(1.000)	3203803	40.0000		
\$	13 o-Terphenyl	230	9.339	9.342	(1.033)	264691	5.34258	360	
*	17 Chrysene-d12	240	11.366	11.363	(1.000)	3241962	40.0000		
*	22 Perylene-d12	264	13.223	13.208	(1.000)	3413636	40.0000		
	2 Naphthalene	128	6.113	6.116	(1.003)	451574	5.46545	370	
	3 2-Methylnaphthalene	142	6.818	6.821	(1.119)	318953	6.06007	410	
	4 1-Methylnaphthalene	142	6.912	6.915	(1.134)	307291	6.23483	420	
	5 Acenaphthylene	152	7.647	7.644	(0.983)	432053	5.02120	340	
	7 Acenaphthene	154	7.800	7.796	(1.003)	249559	4.75674	320	
	8 Fluorene	166	8.240	8.243	(1.060)	328481	5.35875	360	
	10 Phenanthrene	178	9.051	9.054	(1.001)	735158	8.08351	540	
	11 Anthracene	178	9.092	9.095	(1.006)	508267	5.58579	370	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.233	9.230	(1.021)	432166	5.31285	360
14 Fluoranthene	202	10.038	10.035	(1.110)	803163	8.46252	570
15 Pyrene	202	10.226	10.223	(0.900)	761985	7.57721	510
16 Benzo(a)anthracene	228	11.348	11.339	(0.998)	658000	7.41344	500
18 Chrysene	228	11.389	11.386	(1.002)	700028	7.63947	510
19 Benzo(b)fluoranthene	252	12.664	12.655	(0.958)	664111	7.55820	510
20 Benzo(k)fluoranthene	252	12.694	12.696	(0.960)	609169	6.62148	440
21 Benzo(a)pyrene	252	13.117	13.114	(0.992)	549593	6.32073	420
23 Indeno(1,2,3-cd)pyrene	276	14.821	14.812	(1.121)	607230	6.54395	440(M)
24 Dibenzo(a,h)anthracene	278	14.850	14.841	(1.123)	562135	6.55963	440
25 Benzo(g,h,i)perylene	276	15.273	15.258	(1.155)	597374	6.75211	450

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD02013.D

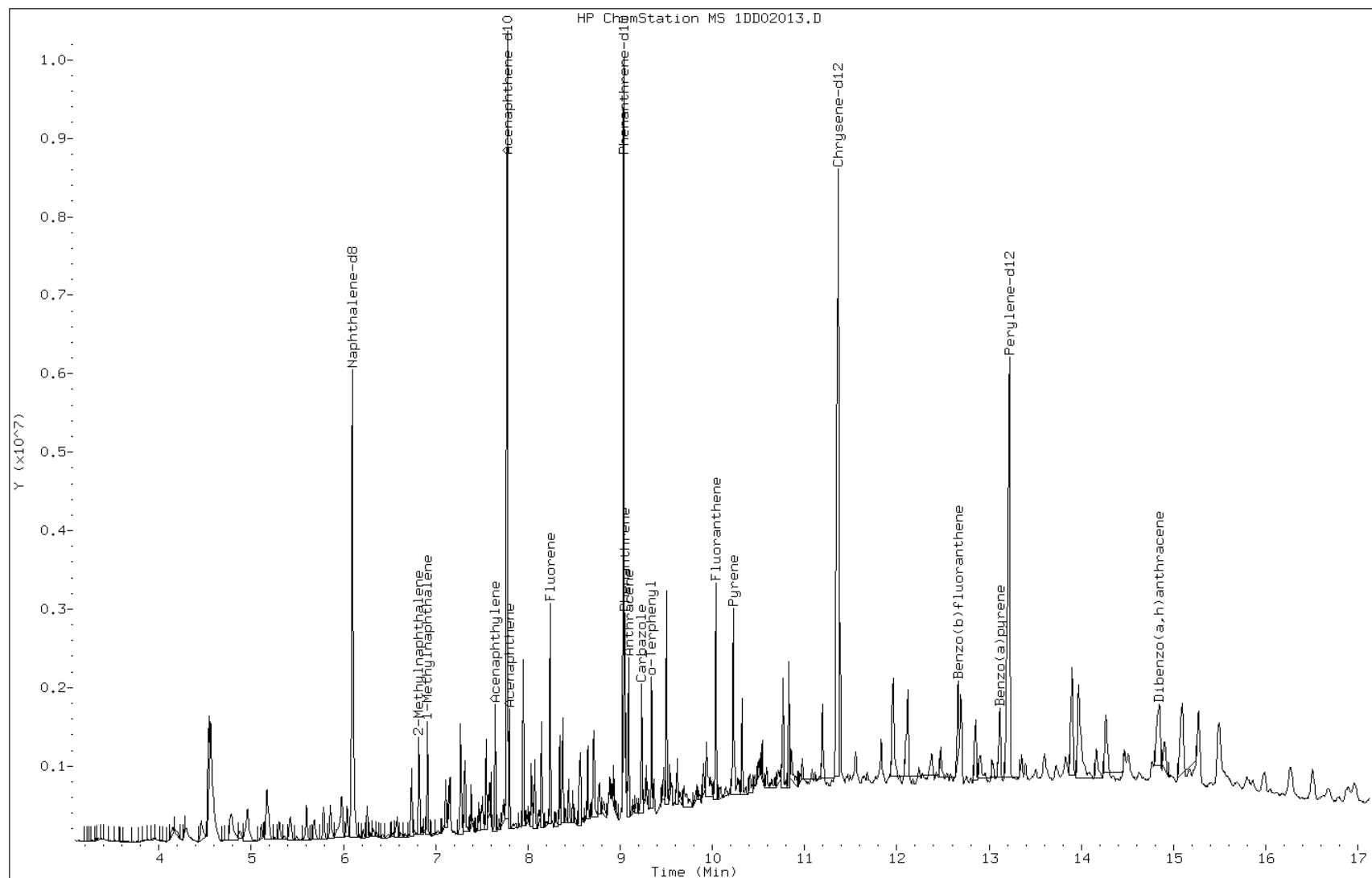
Date: 02-APR-2013 14:54

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88632-A-45-C MSD

Operator: SCC

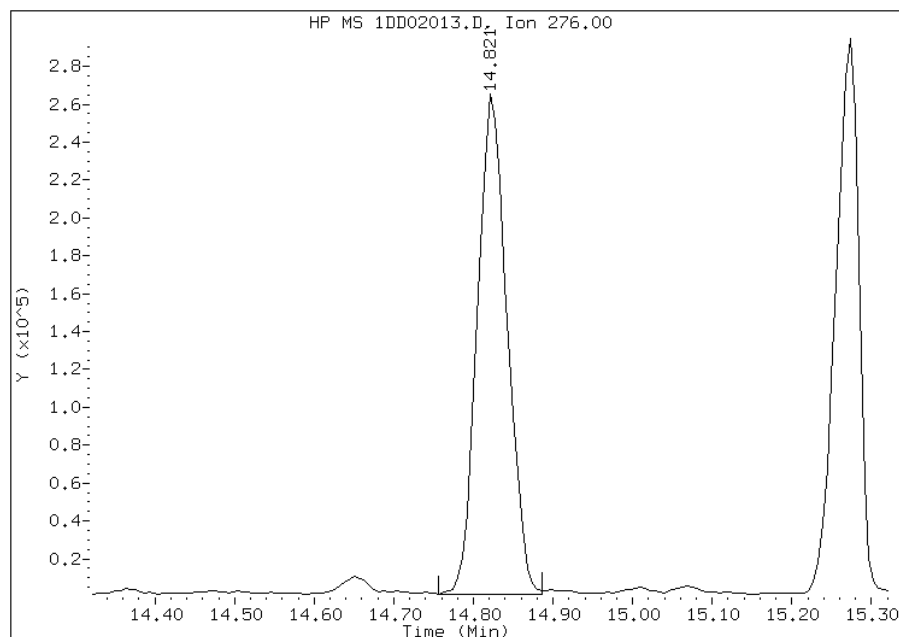


Manual Integration Report

Data File: 1DD02013.D
Inj. Date and Time: 02-APR-2013 14:54
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

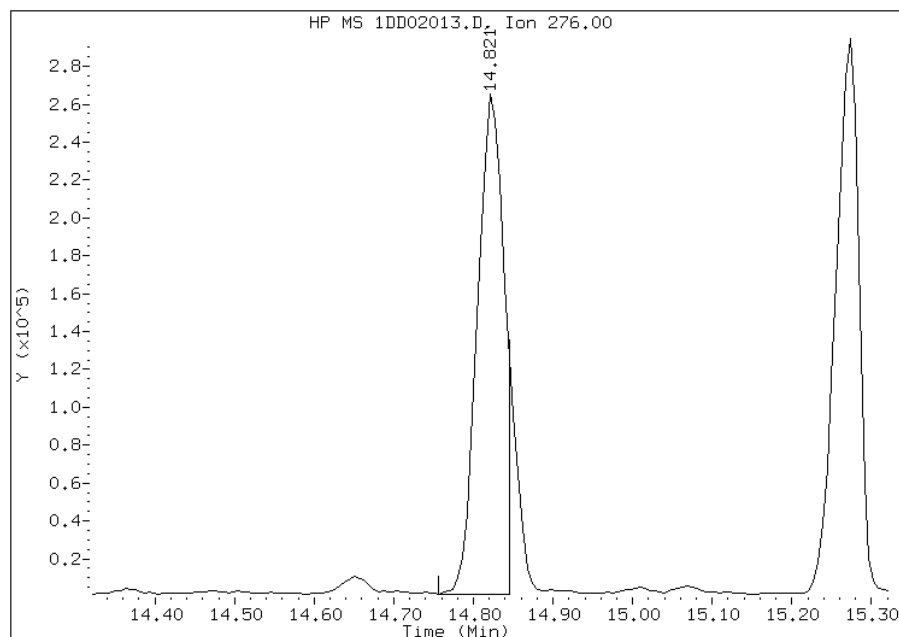
Processing Integration Results

RT: 14.82
Response: 683247
Amount: 7
Conc: 494



Manual Integration Results

RT: 14.82
Response: 607230
Amount: 7
Conc: 439



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 16:05
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTTP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973Start Date: 04/01/2013 10:38Analysis Batch Number: 135996End Date: 04/01/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/01/2013 10:38	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 10:56	1		DB-5MS 250 (um)
DFTTP 660-135996/2		04/01/2013 11:14	1	1CD01002.D	DB-5MS 250 (um)
CCVIS 660-135996/3		04/01/2013 11:31	1	1CD01003.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 11:52	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 12:11	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 12:29	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 12:47	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 13:06	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 13:24	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 13:42	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 14:15	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 14:33	4		DB-5MS 250 (um)
MB 660-135843/1-A		04/01/2013 14:52	1	1CD01013.D	DB-5MS 250 (um)
LCS 660-135843/2-A		04/01/2013 15:10	1	1CD01014.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 15:28	4		DB-5MS 250 (um)
680-88632-A-10-D MS		04/01/2013 15:47	4	1CD01016.D	DB-5MS 250 (um)
680-88632-A-10-C MSD		04/01/2013 16:05	4	1CD01017.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 16:23	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 16:41	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:00	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:18	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:37	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:55	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 18:13	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 18:31	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 18:50	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 19:08	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 19:26	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 19:44	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:03	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:21	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:39	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:58	4		DB-5MS 250 (um)
680-88632-46	CV0664B-CS-SP	04/01/2013 21:16	4	1CD01034.D	DB-5MS 250 (um)
680-88632-47	HP0084A-CS-SP	04/01/2013 21:34	4	1CD01035.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 21:53	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54
Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250 (um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250 (um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250 (um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250 (um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250 (um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250 (um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250 (um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250 (um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250 (um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250 (um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250 (um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMC5973Start Date: 04/02/2013 16:01Analysis Batch Number: 136079End Date: 04/03/2013 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTTP 660-136079/1		04/02/2013 16:01	1		DB-5MS 250 (um)
DFTTP 660-136079/2		04/02/2013 16:23	1	1CD02014.D	DB-5MS 250 (um)
CCVIS 660-136079/3		04/02/2013 16:40	1	1CD02015.D	DB-5MS 250 (um)
ZZZZZ		04/02/2013 16:58	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 17:16	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 17:35	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 17:53	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 18:11	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 18:29	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 18:48	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 19:06	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 19:24	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 19:42	1		DB-5MS 250 (um)
MB 660-135924/1-A		04/02/2013 20:01	1	1CD02026.D	DB-5MS 250 (um)
LCS 660-135924/2-A		04/02/2013 20:19	1	1CD02027.D	DB-5MS 250 (um)
ZZZZZ		04/02/2013 20:37	1		DB-5MS 250 (um)
680-88632-A-21-B MS		04/02/2013 20:56	1	1CD02029.D	DB-5MS 250 (um)
680-88632-A-21-C MSD		04/02/2013 21:14	1	1CD02030.D	DB-5MS 250 (um)
680-88632-49	HP0084C-GS-SP	04/02/2013 21:32	1	1CD02031.D	DB-5MS 250 (um)
ZZZZZ		04/02/2013 21:51	4		DB-5MS 250 (um)
ZZZZZ		04/02/2013 22:09	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 22:27	4		DB-5MS 250 (um)
ZZZZZ		04/02/2013 22:46	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 23:04	4		DB-5MS 250 (um)
ZZZZZ		04/02/2013 23:22	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 23:41	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 23:59	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 00:17	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-3
SDG No.: 68088632-3
Instrument ID: BSMC5973 Start Date: 04/03/2013 10:52
Analysis Batch Number: 136081 End Date: 04/03/2013 15:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/03/2013 10:52	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 11:10	1		DB-5MS 250 (um)
DFTTP 660-136081/2		04/03/2013 11:28	1	1CD03002.D	DB-5MS 250 (um)
CCVIS 660-136081/3		04/03/2013 11:45	1	1CD03003.D	DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:04	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:22	1		DB-5MS 250 (um)
680-88632-48	HP0084B-CS-SP	04/03/2013 12:40	4	1CD03006.D	DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:59	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 13:17	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 13:35	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 13:54	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 14:12	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 14:30	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 14:49	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 15:07	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMD5973Start Date: 02/22/2013 11:10Analysis Batch Number: 134781End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250 (um)
DFTTP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250 (um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250 (um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250 (um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250 (um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250 (um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250 (um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250 (um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250 (um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-3SDG No.: 68088632-3Instrument ID: BSMD5973Start Date: 04/02/2013 09:16Analysis Batch Number: 136046End Date: 04/02/2013 21:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 09:16	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 09:58	1		DB-5MS 250 (um)
DFTTP 660-136046/2		04/02/2013 10:23	1	1DD02002.D	DB-5MS 250 (um)
CCVIS 660-136046/3		04/02/2013 10:52	1		DB-5MS 250 (um)
CCV 660-136046/4		04/02/2013 11:19	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 11:45	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 12:16	1		DB-5MS 250 (um)
CCVIS 660-136046/7		04/02/2013 12:39	1	1DD02007.D	DB-5MS 250 (um)
ZZZZZ		04/02/2013 13:01	1		DB-5MS 250 (um)
MB 660-135965/1-A		04/02/2013 13:24	1	1DD02009.D	DB-5MS 250 (um)
LCS 660-135965/2-A		04/02/2013 13:47	1	1DD02010.D	DB-5MS 250 (um)
680-88632-45	CV0664A-CS-SP	04/02/2013 14:09	1	1DD02011.D	DB-5MS 250 (um)
680-88632-45 MS	CV0664A-CS-SP MS	04/02/2013 14:32	1	1DD02012.D	DB-5MS 250 (um)
680-88632-45 MSD	CV0664A-CS-SP MSD	04/02/2013 14:54	1	1DD02013.D	DB-5MS 250 (um)
ZZZZZ		04/02/2013 15:17	4		DB-5MS 250 (um)
ZZZZZ		04/02/2013 15:43	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 16:08	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 16:59	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 17:25	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 17:50	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 18:16	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 18:42	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 19:05	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 19:28	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 19:50	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 20:13	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 20:36	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 20:58	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 21:21	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 21:43	1		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Batch Number: 135843 Batch Start Date: 03/27/13 15:04 Batch Analyst:Batch Method: 3546 Batch End Date: 03/28/13 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135843/1		3546, 8270C LL		15.09 g	1 mL		1 mL
LCS 660-135843/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL
680-88632-A-10 MS		3546, 8270C LL	T	14.97 g	1 mL	1 mL	1 mL
680-88632-A-10 MSD		3546, 8270C LL	T	14.94 g	1 mL	1 mL	1 mL
680-88632-A-46	CV0664B-CS-SP	3546, 8270C LL	T	15.09 g	1 mL		1 mL
680-88632-A-47	HP0084A-CS-SP	3546, 8270C LL	T	14.90 g	1 mL		1 mL
680-88632-A-48	HP0084B-CS-SP	3546, 8270C LL	T	15.22 g	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	RN
Exchange Solvent Lot #	EX-DCM BOT 24
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
Sulfuric Acid Lot Number	N/.A
Hydromatrix Lot #	N./A
MeCL2 Lot #	EX-DCM BOT 24
MeCl2/Acetone Lot #	DCM/ACETON 54
Microwave Start Time	16:30 3/27/13
Microwave Stop Time	17:05 3/27/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Batch Number: 135924 Batch Start Date: 03/29/13 10:19 Batch Analyst:Batch Method: 3546 Batch End Date: 03/29/13 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135924/1		3546, 8270C LL		15.12 g	1 mL		1 mL
LCS 660-135924/2		3546, 8270C LL		15.01 g	1 mL	1 mL	1 mL
680-88632-A-21 MS		3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL
680-88632-A-21 MSD		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL
680-88632-A-49	HP0084C-GS-SP	3546, 8270C LL	T	14.99 g	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 #	EX-DCM/ACETON 53
Microwave Start Time	12:00 3/29/13
Microwave Stop Time	12:30 3/29/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Batch Number: 135965 Batch Start Date: 04/01/13 08:27 Batch Analyst:Batch Method: 3546 Batch End Date: 04/02/13 08:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135965/1		3546, 8270C LL		14.92 g	1 mL		1 mL
LCS 660-135965/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL
680-88632-A-45	CV0664A-CS-SP	3546, 8270C LL	T	14.82 g	1 mL		1 mL
680-88632-A-45 MS	CV0664A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL
680-88632-A-45 MSD	CV0664A-CS-SP	3546, 8270C LL	T	14.92 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 57
Microwave Start Time	10:00 4/1/13
Microwave Stop Time	10:35 4/1/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

1000 JOURNAL OF CLIMATE

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-3
SDG No.: 68088632-3
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0664A-CS-SP</u>	<u>680-88632-45</u>
<u>CV0664B-CS-SP</u>	<u>680-88632-46</u>
<u>HP0084A-CS-SP</u>	<u>680-88632-47</u>
<u>HP0084B-CS-SP</u>	<u>680-88632-48</u>
<u>HP0084C-GS-SP</u>	<u>680-88632-49</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-3
SDG Number: 68088632-3
Matrix: Solid Instrument ID: Moisture
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-3
SDG Number: 68088632-3
Matrix: Solid Instrument ID: Moisture
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-3
SDG Number: 68088632-3
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: 680-88632-3
SDG Number: 68088632-3
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.: 680-88632-3

SDG No.: 68088632-3

Instrument ID: Moisture Method: Moisture

Start Date: 03/26/2013 06:22 End Date: 03/26/2013 14:16

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
LCSD 660-135794/11	1	T	06:22	X																	
LCS 660-135794/1	1	T	06:24	X																	
ZZZZZZ			12:21																		
ZZZZZZ			12:23																		
ZZZZZZ			12:39																		
ZZZZZZ			12:46																		
ZZZZZZ			12:57																		
680-88632-46	1	T	13:15	X																	
ZZZZZZ			13:17																		
ZZZZZZ			14:15																		
ZZZZZZ			14:16																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3

SDG No.: 68088632-3

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/26/2013 12:38 End Date: 03/26/2013 12:38

[illegible]

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88632-3

SDG No.: 68088632-3

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/26/2013 12:38 End Date: 03/26/2013 12:38

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
ZZZZZZ			12:38																		
ZZZZZZ			12:38																		
ZZZZZZ			12:38																		
680-88632-47	1	T	12:38	X																	
680-88632-49	1	T	12:38	X																	
ZZZZZZ			12:38																		
ZZZZZZ			12:38																		
ZZZZZZ			12:38																		

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Batch Number: 135786 Batch Start Date: 03/26/13 12:38 Batch Analyst:Batch Method: Moisture Batch End Date: 03/27/13 06:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-88632-A-45	CV0664A-CS-SP	Moisture	T	4	0 g	4.30 g	3.53 g
680-88632-A-45 MS	CV0664A-CS-SP	Moisture	T	4	0 g	4.30 g	3.53 g
680-88632-A-45 MSD	CV0664A-CS-SP	Moisture	T	4	0 g	4.30 g	3.53 g
680-88632-A-10 MS		Moisture	T	10	0 g	4.73 g	3.71 g
680-88632-A-10 MSD		Moisture	T	10	0 g	4.73 g	3.71 g
680-88632-A-48	HP0084B-CS-SP	Moisture	T	15	0 g	4.54 g	3.38 g
680-88632-A-47	HP0084A-CS-SP	Moisture	T	40	0 g	4.34 g	3.35 g
680-88632-A-49	HP0084C-GS-SP	Moisture	T	41	0 g	4.58 g	3.65 g

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.26.13
Date samples were removed from oven	3.27.13

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 this reagent.

Moisture

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-3SDG No.: 68088632-3Batch Number: 135794 Batch Start Date: 03/26/13 06:22 Batch Analyst:Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	
LCS 660-135794/1		Moisture		0 g	10.019 g	9.01 g	
680-88632-A-46	CV0664B-CS-SP	Moisture	T	0 g	4.159 g	3.247 g	
LCSD 660-135794/11		Moisture		0 g	10.034 g	9.028 g	

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

 **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal		PROJECT NO. 2005148		PROJECT LOCATION (STATE) AL		MATRIX TYPE		REQUIRED ANALYSIS										PAGE 1		OF 1	
TAL (LAB) PROJECT MANAGER Lisa Harvey		P.O. NUMBER		CONTRACT NO.		COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)		PRESERVATIVE										STANDARD REPORT DELIVERY		DATE DUE	
CLIENT NAME		CLIENT PHONE		CLIENT FAX														EXPEDITED REPORT DELIVERY (SURCHARGE)		DATE DUE	
CLIENT ADDRESS		COMPANY CONTRACTING THIS WORK (if applicable)		NUMBER OF CONTAINERS SUBMITTED		REMARKS															
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED		REMARKS															
DATE	TIME																				
3-22-13	0856	CV0664A-CS-SP		C	X	X															
	0905	CV0664B-CS-SP		C	X	X															
	0805	HP0084A-CS-SP		C	X	X															
	0815	HP0084B-CS-SP		C	X	X	X														
	0808	HP0084C-GS-SP		G	X	X															
	0815	HP0084B-CS-SP-sieve		C	X	X															
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME										
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 YES NO	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88632	LABORATORY REMARKS 1.2°C														

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

SDG Number: 68088632-3

Login Number: 88632

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 680-88632-3

SDG Number: 68088632-3

Login Number: 88632

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/26/13 12:20 PM

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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: 680-88632-3

TestAmerica Sample Delivery Group: 68088632-3

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:

4/4/2013 9:17:20 AM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

LINKS

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results through

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Case Narrative

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Job ID: 680-88632-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88632-3

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

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

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

RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0664A-CS-SP (680-88632-45), CV0664B-CS-SP (680-88632-46), HP0084A-CS-SP (680-88632-47), HP0084B-CS-SP (680-88632-48) and HP0084C-GS-SP (680-88632-49) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/27/2013, 03/29/2013 and 04/01/2013 and analyzed on 04/01/2013, 04/02/2013 and 04/03/2013.

Samples CV0664B-CS-SP (680-88632-46)[4X], HP0084A-CS-SP (680-88632-47)[4X] and HP0084B-CS-SP (680-88632-48)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-135965/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88632-10 in batch 660-135996. Several analytes also exceeded the rpd limit.

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

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-45	CV0664A-CS-SP	Solid	03/22/13 08:56	03/23/13 09:39
680-88632-46	CV0664B-CS-SP	Solid	03/22/13 09:05	03/23/13 09:39
680-88632-47	HP0084A-CS-SP	Solid	03/22/13 08:05	03/23/13 09:39
680-88632-48	HP0084B-CS-SP	Solid	03/22/13 08:15	03/23/13 09:39
680-88632-49	HP0084C-GS-SP	Solid	03/22/13 08:08	03/23/13 09:39

Method Summary

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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

Definitions/Glossary

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: CV0664A-CS-SP

Lab Sample ID: 680-88632-45

Date Collected: 03/22/13 08:56

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Acenaphthylene	11	J	49	6.2	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Anthracene	18		10	5.2	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Benzo[a]anthracene	96		9.9	4.8	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Benzo[a]pyrene	79		13	6.4	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Benzo[b]fluoranthene	150		15	7.5	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Benzo[g,h,i]perylene	76		25	5.4	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Benzo[k]fluoranthene	55		9.9	4.4	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Chrysene	130		11	5.5	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Dibenz(a,h)anthracene	26		25	5.1	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Fluoranthene	150		25	4.9	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Fluorene	7.7	J	25	5.1	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Indeno[1,2,3-cd]pyrene	59		25	8.8	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
1-Methylnaphthalene	44	J	49	5.4	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
2-Methylnaphthalene	54		49	8.8	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Naphthalene	52		49	5.4	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Phenanthrene	120	B	9.9	4.8	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1
Pyrene	120		25	4.6	ug/Kg	☼	04/01/13 08:27	04/02/13 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	42		30 - 130	04/01/13 08:27	04/02/13 14:09	1

Client Sample ID: CV0664B-CS-SP

Lab Sample ID: 680-88632-46

Date Collected: 03/22/13 09:05

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Acenaphthylene	67	J	200	25	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Anthracene	75		43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Benzo[a]anthracene	390		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Benzo[a]pyrene	330		53	26	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Benzo[b]fluoranthene	620		62	31	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Benzo[g,h,i]perylene	270		100	22	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Benzo[k]fluoranthene	300		41	18	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Chrysene	480		46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Dibenz(a,h)anthracene	98	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Fluoranthene	540		100	20	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Fluorene	26	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Indeno[1,2,3-cd]pyrene	250		100	36	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
1-Methylnaphthalene	250		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
2-Methylnaphthalene	340		200	36	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Naphthalene	280		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Phenanthrene	430		41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4
Pyrene	500		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 21:16	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		30 - 130	03/27/13 15:04	04/01/13 21:16	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: HP0084A-CS-SP

Lab Sample ID: 680-88632-47

Date Collected: 03/22/13 08:05

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Acenaphthylene	28	J	210	26	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Anthracene	62		44	22	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Benzo[a]anthracene	240		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Benzo[a]pyrene	190		54	27	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Benzo[b]fluoranthene	400		64	32	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Benzo[g,h,i]perylene	190		100	23	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Benzo[k]fluoranthene	94		42	19	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Chrysene	310		47	23	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Dibenz(a,h)anthracene	59	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Fluoranthene	250		100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Fluorene	24	J	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Indeno[1,2,3-cd]pyrene	130		100	37	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
1-Methylnaphthalene	320		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
2-Methylnaphthalene	460		210	37	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Naphthalene	280		210	23	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Phenanthrene	420		42	20	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Pyrene	280		100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 21:34	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/27/13 15:04	04/01/13 21:34	4

Client Sample ID: HP0084B-CS-SP

Lab Sample ID: 680-88632-48

Date Collected: 03/22/13 08:15

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Acenaphthylene	28	J	210	26	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Anthracene	68		44	22	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Benzo[a]anthracene	380		42	21	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Benzo[a]pyrene	200		55	28	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Benzo[b]fluoranthene	520		65	32	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Benzo[g,h,i]perylene	280		110	23	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Benzo[k]fluoranthene	100		42	19	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Chrysene	520		48	24	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Dibenz(a,h)anthracene	120		110	22	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Fluoranthene	470		110	21	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Fluorene	25	J	110	22	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Indeno[1,2,3-cd]pyrene	160		110	38	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
1-Methylnaphthalene	330		210	23	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
2-Methylnaphthalene	390		210	38	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Naphthalene	290		210	23	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Phenanthrene	590		42	21	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Pyrene	420		110	20	ug/Kg	☼	03/27/13 15:04	04/03/13 12:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		30 - 130				03/27/13 15:04	04/03/13 12:40	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: HP0084C-GS-SP

Lab Sample ID: 680-88632-49

Date Collected: 03/22/13 08:08

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Acenaphthylene	17	J	50	6.3	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Anthracene	38		11	5.3	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Benzo[a]anthracene	240		10	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Benzo[a]pyrene	220		13	6.5	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Benzo[b]fluoranthene	430		15	7.7	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Benzo[g,h,i]perylene	190		25	5.5	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Benzo[k]fluoranthene	150		10	4.5	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Chrysene	440		11	5.7	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Dibenz(a,h)anthracene	63		25	5.1	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Fluoranthene	340		25	5.0	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Fluorene	35		25	5.1	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Indeno[1,2,3-cd]pyrene	120		25	8.9	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
1-Methylnaphthalene	220		50	5.5	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
2-Methylnaphthalene	320		50	8.9	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Naphthalene	180		50	5.5	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Phenanthrene	400		10	4.9	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Pyrene	280		25	4.6	ug/Kg	☼	03/29/13 10:19	04/02/13 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	55		30 - 130				03/29/13 10:19	04/02/13 21:32	1

QC Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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

Lab Sample ID: MB 660-135843/1-A

Matrix: Solid

Analysis Batch: 135996

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Fluorene	20	U	20	4.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Naphthalene	40	U	40	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Pyrene	20	U	20	3.7	ug/Kg		03/27/13 15:04	04/01/13 14:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130	03/27/13 15:04	04/01/13 14:52	1

Lab Sample ID: LCS 660-135843/2-A

Matrix: Solid

Analysis Batch: 135996

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	495		ug/Kg		74	39 - 130
Acenaphthylene	668	547		ug/Kg		82	38 - 130
Anthracene	668	519		ug/Kg		78	37 - 130
Benzo[a]anthracene	668	536		ug/Kg		80	40 - 130
Benzo[a]pyrene	668	483		ug/Kg		72	49 - 130
Benzo[b]fluoranthene	668	481		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	668	477		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	668	573		ug/Kg		86	32 - 130
Chrysene	668	497		ug/Kg		74	41 - 130
Dibenz(a,h)anthracene	668	499		ug/Kg		75	27 - 130
Fluoranthene	668	548		ug/Kg		82	40 - 130
Fluorene	668	536		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	668	511		ug/Kg		76	30 - 130
1-Methylnaphthalene	668	593		ug/Kg		89	31 - 130
2-Methylnaphthalene	668	577		ug/Kg		86	33 - 130
Naphthalene	668	539		ug/Kg		81	36 - 130
Phenanthrene	668	518		ug/Kg		78	42 - 130
Pyrene	668	556		ug/Kg		83	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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

Lab Sample ID: LCS 660-135843/2-A
Matrix: Solid
Analysis Batch: 135996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135843

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	81		30 - 130

Lab Sample ID: MB 660-135924/1-A
Matrix: Solid
Analysis Batch: 136079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Fluorene	20	U	20	4.1	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Naphthalene	40	U	40	4.4	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Pyrene	20	U	20	3.7	ug/Kg		03/29/13 10:19	04/02/13 20:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/29/13 10:19	04/02/13 20:01	1

Lab Sample ID: LCS 660-135924/2-A
Matrix: Solid
Analysis Batch: 136079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	666	412		ug/Kg		62	39 - 130
Acenaphthylene	666	436		ug/Kg		65	38 - 130
Anthracene	666	447		ug/Kg		67	37 - 130
Benzo[a]anthracene	666	479		ug/Kg		72	40 - 130
Benzo[a]pyrene	666	454		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	666	456		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	666	425		ug/Kg		64	32 - 130
Benzo[k]fluoranthene	666	469		ug/Kg		70	32 - 130
Chrysene	666	447		ug/Kg		67	41 - 130
Dibenz(a,h)anthracene	666	476		ug/Kg		71	27 - 130
Fluoranthene	666	483		ug/Kg		72	40 - 130
Fluorene	666	450		ug/Kg		68	40 - 130
Indeno[1,2,3-cd]pyrene	666	403		ug/Kg		60	30 - 130
1-Methylnaphthalene	666	509		ug/Kg		76	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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

Lab Sample ID: LCS 660-135924/2-A

Matrix: Solid

Analysis Batch: 136079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	666	483		ug/Kg		72	33 - 130
Naphthalene	666	461		ug/Kg		69	36 - 130
Phenanthrene	666	439		ug/Kg		66	42 - 130
Pyrene	666	509		ug/Kg		76	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	66		30 - 130

Lab Sample ID: MB 660-135965/1-A

Matrix: Solid

Analysis Batch: 136046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Fluorene	20	U	20	4.1	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Naphthalene	40	U	40	4.4	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Phenanthrene	3.93	J	8.0	3.9	ug/Kg		04/01/13 08:27	04/02/13 13:24	1
Pyrene	20	U	20	3.7	ug/Kg		04/01/13 08:27	04/02/13 13:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		30 - 130	04/01/13 08:27	04/02/13 13:24	1

Lab Sample ID: LCS 660-135965/2-A

Matrix: Solid

Analysis Batch: 136046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	456		ug/Kg		68	39 - 130
Acenaphthylene	669	468		ug/Kg		70	38 - 130
Anthracene	669	486		ug/Kg		73	37 - 130
Benzo[a]anthracene	669	551		ug/Kg		82	40 - 130
Benzo[a]pyrene	669	490		ug/Kg		73	49 - 130
Benzo[b]fluoranthene	669	533		ug/Kg		80	37 - 130
Benzo[g,h,i]perylene	669	516		ug/Kg		77	32 - 130
Benzo[k]fluoranthene	669	521		ug/Kg		78	32 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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

Lab Sample ID: LCS 660-135965/2-A

Matrix: Solid

Analysis Batch: 136046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	669	493		ug/Kg		74	41 - 130
Dibenz(a,h)an hracene	669	552		ug/Kg		82	27 - 130
Fluoranthene	669	530		ug/Kg		79	40 - 130
Fluorene	669	503		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	669	484		ug/Kg		72	30 - 130
1-Methylnaphthalene	669	504		ug/Kg		75	31 - 130
2-Methylnaphthalene	669	490		ug/Kg		73	33 - 130
Naphthalene	669	471		ug/Kg		70	36 - 130
Phenanthrene	669	489		ug/Kg		73	42 - 130
Pyrene	669	486		ug/Kg		73	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	75		30 - 130

Lab Sample ID: 680-88632-45 MS

Matrix: Solid

Analysis Batch: 136046

Client Sample ID: CV0664A-CS-SP

Prep Type: Total/NA

Prep Batch: 135965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	U	814	430		ug/Kg	☼	53	39 - 130
Acenaphthylene	11	J	814	431		ug/Kg	☼	52	38 - 130
Anthracene	18		814	486		ug/Kg	☼	57	37 - 130
Benzo[a]anthracene	96		814	685		ug/Kg	☼	72	40 - 130
Benzo[a]pyrene	79		814	556		ug/Kg	☼	58	49 - 130
Benzo[b]fluoranthene	150		814	714		ug/Kg	☼	69	37 - 130
Benzo[g,h,i]perylene	76		814	585		ug/Kg	☼	63	32 - 130
Benzo[k]fluoranthene	55		814	543		ug/Kg	☼	60	32 - 130
Chrysene	130		814	667		ug/Kg	☼	66	41 - 130
Dibenz(a,h)an hracene	26		814	526		ug/Kg	☼	61	27 - 130
Fluoranthene	150		814	840		ug/Kg	☼	85	40 - 130
Fluorene	7.7	J	814	477		ug/Kg	☼	58	40 - 130
Indeno[1,2,3-cd]pyrene	59		814	537		ug/Kg	☼	59	30 - 130
1-Methylnaphthalene	44	J	814	563		ug/Kg	☼	64	31 - 130
2-Methylnaphthalene	54		814	565		ug/Kg	☼	63	33 - 130
Naphthalene	52		814	510		ug/Kg	☼	56	36 - 130
Phenanthrene	120	B	814	764		ug/Kg	☼	79	42 - 130
Pyrene	120		814	734		ug/Kg	☼	76	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	54		30 - 130

Lab Sample ID: 680-88632-45 MSD

Matrix: Solid

Analysis Batch: 136046

Client Sample ID: CV0664A-CS-SP

Prep Type: Total/NA

Prep Batch: 135965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	120	U	816	388		ug/Kg	☼	48	39 - 130	10	40
Acenaphthylene	11	J	816	410		ug/Kg	☼	49	38 - 130	5	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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

Lab Sample ID: 680-88632-45 MSD

Matrix: Solid

Analysis Batch: 136046

Client Sample ID: CV0664A-CS-SP

Prep Type: Total/NA

Prep Batch: 135965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	18		816	456		ug/Kg	⊛	54	37 - 130	6	40
Benzo[a]anthracene	96		816	605		ug/Kg	⊛	62	40 - 130	12	40
Benzo[a]pyrene	79		816	516		ug/Kg	⊛	53	49 - 130	7	40
Benzo[b]fluoranthene	150		816	617		ug/Kg	⊛	57	37 - 130	15	40
Benzo[g,h,i]perylene	76		816	551		ug/Kg	⊛	58	32 - 130	6	40
Benzo[k]fluoranthene	55		816	541		ug/Kg	⊛	59	32 - 130	0	40
Chrysene	130		816	624		ug/Kg	⊛	60	41 - 130	7	40
Dibenz(a,h)anthracene	26		816	536		ug/Kg	⊛	62	27 - 130	2	40
Fluoranthene	150		816	691		ug/Kg	⊛	66	40 - 130	19	40
Fluorene	7.7	J	816	438		ug/Kg	⊛	53	40 - 130	9	40
Indeno[1,2,3-cd]pyrene	59		816	534		ug/Kg	⊛	58	30 - 130	1	40
1-Methylnaphthalene	44	J	816	509		ug/Kg	⊛	57	31 - 130	10	40
2-Methylnaphthalene	54		816	495		ug/Kg	⊛	54	33 - 130	13	40
Naphthalene	52		816	446		ug/Kg	⊛	48	36 - 130	13	40
Phenanthrene	120	B	816	660		ug/Kg	⊛	66	42 - 130	15	40
Pyrene	120		816	619		ug/Kg	⊛	61	44 - 130	17	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	53		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

GC/MS Semi VOA

Prep Batch: 135843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-46	CV0664B-CS-SP	Total/NA	Solid	3546	
680-88632-47	HP0084A-CS-SP	Total/NA	Solid	3546	
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	3546	
LCS 660-135843/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135843/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-49	HP0084C-GS-SP	Total/NA	Solid	3546	
LCS 660-135924/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135924/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-45	CV0664A-CS-SP	Total/NA	Solid	3546	
680-88632-45 MS	CV0664A-CS-SP	Total/NA	Solid	3546	
680-88632-45 MSD	CV0664A-CS-SP	Total/NA	Solid	3546	
LCS 660-135965/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135965/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-46	CV0664B-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-47	HP0084A-CS-SP	Total/NA	Solid	8270C LL	135843
LCS 660-135843/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135843
MB 660-135843/1-A	Method Blank	Total/NA	Solid	8270C LL	135843

Analysis Batch: 136046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-45	CV0664A-CS-SP	Total/NA	Solid	8270C LL	135965
680-88632-45 MS	CV0664A-CS-SP	Total/NA	Solid	8270C LL	135965
680-88632-45 MSD	CV0664A-CS-SP	Total/NA	Solid	8270C LL	135965
LCS 660-135965/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135965
MB 660-135965/1-A	Method Blank	Total/NA	Solid	8270C LL	135965

Analysis Batch: 136079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-49	HP0084C-GS-SP	Total/NA	Solid	8270C LL	135924
LCS 660-135924/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135924
MB 660-135924/1-A	Method Blank	Total/NA	Solid	8270C LL	135924

Analysis Batch: 136081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	8270C LL	135843

General Chemistry

Analysis Batch: 135786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-45	CV0664A-CS-SP	Total/NA	Solid	Moisture	

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QC Association Summary

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

General Chemistry (Continued)

Analysis Batch: 135786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-45 MS	CV0664A-CS-SP	Total/NA	Solid	Moisture	
680-88632-45 MSD	CV0664A-CS-SP	Total/NA	Solid	Moisture	
680-88632-47	HP0084A-CS-SP	Total/NA	Solid	Moisture	
680-88632-48	HP0084B-CS-SP	Total/NA	Solid	Moisture	
680-88632-49	HP0084C-GS-SP	Total/NA	Solid	Moisture	

Analysis Batch: 135794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-46	CV0664B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-135794/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135794/11	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

Client Sample ID: CV0664A-CS-SP

Date Collected: 03/22/13 08:56

Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-45

Matrix: Solid

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135965	04/01/13 08:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136046	04/02/13 14:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: CV0664B-CS-SP

Date Collected: 03/22/13 09:05

Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-46

Matrix: Solid

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 21:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135794	03/26/13 13:15	AG	TAL TAM

Client Sample ID: HP0084A-CS-SP

Date Collected: 03/22/13 08:05

Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-47

Matrix: Solid

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 21:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: HP0084B-CS-SP

Date Collected: 03/22/13 08:15

Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-48

Matrix: Solid

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136081	04/03/13 12:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Client Sample ID: HP0084C-GS-SP

Date Collected: 03/22/13 08:08

Date Received: 03/23/13 09:39

Lab Sample ID: 680-88632-49

Matrix: Solid

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135924	03/29/13 10:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136079	04/02/13 21:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

 **TestAmerica Savannah**
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☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35 th Ave Removal		PROJECT NO. 2005148		PROJECT LOCATION (STATE) AL		MATRIX TYPE		REQUIRED ANALYSIS																PAGE 1	OF 1		
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>		P.O. NUMBER		CONTRACT NO.																				STANDARD REPORT DELIVERY ☐			
CLIENT NAME (6)		CLIENT PHONE		CLIENT FAX																				DATE DUE _____			
CLIENT ADDRESS																								EXPEDITED REPORT DELIVERY (SURCHARGE) ☐			
																								DATE DUE _____			
COMPANY CONTRACTING THIS WORK (if applicable)								PRESERVATIVE																NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			
SAMPLE		SAMPLE IDENTIFICATION				COMPOSITE (C) OR GRAB (G) INDICATE		AQUEOUS (WATER)		SOLID OR SEMISOLID		AIR		NONAQUEOUS LIQUID (OIL, SOLVENT, ...)		NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME																										
3-22-13	0856	CV0664A-CS-SP				C	X																				
	0905	CV0664B-CS-SP				C	X																				
	0805	HP0084A-CS-SP				C	X																				
	0815	HP0084B-CS-SP				C	X																				
	0808	HP0084C-GS-SP				G	X																				
	0815	HP0084B-CS-sp-sieve				C	X																				
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i> DATE 3-22-13 TIME 11:30 RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME																											
RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME																											
LABORATORY USE ONLY																											
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE 06/23/13	TIME 0939	CUSTODY INTACT YES ☐ NO ☐		CUSTODY SEAL NO.		SAVANNAH LOG NO. 680-88632		LABORATORY REMARKS 1.2°C																	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-3

SDG Number: 68088632-3

Login Number: 88632

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 680-88632-3

SDG Number: 68088632-3

Login Number: 88632

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

List Creation: 03/26/13 12:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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: 680-88632-3
SDG: 68088632-3

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
Guam	State Program	9	09-005r	04-17-13
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
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.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88632-3
SDG: 68088632-3

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